ADDENDUM NO: 03

DATE: 08 April 2025

PROJECT NO: 119.002

PROJECT: Hyde Park Elementary School
333 East 300 North
Hyde Park, Utah 84318

OWNER: Cache County School District
Logan, Utah

NAYLOR
WENTWORTH
LUND
ARCHITECTS

THE ITEMS LISTED IN THIS **ADDENDUM** WILL BECOME PART OF THE GENERAL CONTRACT AND WILL BE INCLUDED IN THE APPROPRIATE DRAWING OR SPECIFICATION SECTION AS NOTED UNDER EACH OF THE FOLLOWING ITEMS.

PRE-BID RFI

1. **SEE ATTACHED**

GENERAL

1. **ACCEPTED SUBSTITUTIONS**

SPECIFICATIONS

1. **Specification 06 4100: Updated 2.02.B.01**
2. **Specification 07 5419: Updated 2.03.D.01; 2.04.A.1.a**
3. **Specification 06 1416: Updated 2.02.B.3.a**
4. **Specification 08 7100: Included 08 7100**
5. **Specification 08 8000: Updated 2.05.C; 2.05.E.**
6. **Specification 09 6500: Updated 2.04.A.1.a; 2.04.A.2.a; 2.04.A.9.**
7. **Specification 10 2800: Included 2.04.A.; Eliminated 2.04.B, 2.04.C; 2.04.D; 2.04.H.**
8. **Specification 10 5100: Updated 1.01.B; 2.03.A; 2.03.A.2.a; 2.03.B.**

DRAWINGS

Sheet AS101 – ARCHITECTURAL SITE PLAN

- **Detail A6/ AS101 updated to show where structural column location in concrete benches.**
- **Site concrete bench locations marked on site plan.**
- **Concrete walking strip placed around flag pole.**

Sheet A102b – AREA B1 REFERENCE FLOR PLAN

- **Window tags added to plan view at RESOURCE CLASSROOM.**

Sheet A106a – AREA B2 DIMENSION FLOOR PLAN

- **Toilet paper holders have been added to bathroom B221 and B224**

Sheet A106b – AREA B2 REFERENCE FLOOR PLAN

- **Adjusted MEDIA CENTER vertical mullions in system to correctly align with structural and interior elements on elevations.**
- **Toilet paper holders have been added to bathroom B221 and B224**
- **Window tags added to all windows on plan**

Sheet A106c – AREA B2 FINISH FLOOR PLAN

- **Toilet paper holders have been added to bathroom B221 and B224**

Sheet A107b – AREA C2 REFERENCE FLOOR PLAN

- **Window tags added to all windows on plan**

Sheet A171 – ROOF PLAN

- **Adjusted detail C6/ A531 to have corrected stud size.**
- **Added detail D5/ A531 to show roof access ladder detailing.**
- **Added roof access ladder.**

Sheet A202 – BUILDING ELEVATIONS

- **Adjusted MEDIA CENTER vertical mullions in system to correctly align with structural and interior elements on elevations A1/ A202 and A2/ A202.**
- **Realigned ACM panels reveal with media center vertical mullions.**

Sheet A302 – BUILDING SECTIONS

- **Removed detail callout D1/ A315 on D1/ A302**

Sheet A304 – BUILDING SECTIONS

- **Removed detail callout D1/ A315 on D1/ A304c**

Sheet A315 – BUILDING SECTION

- **Removed "refer to structural" from detail E1/ A315 and D1/ A315 note.**

Sheet A402 – INTERIOR ELEVATIONS

- **Detail D3/A402 – RESTROOM SOUTH – keynote updated to 11.79.AA changing table**
- **TOILET ROOM ACCESSORY LEGEND updated to show OWNER FURNISHED CONTRACTOR INSTALLED accessories**

Sheet A405 – INTERIOR ELEVATIONS

- **Window sill keynote added to elevation B2/ A405**

Sheet A407 – INTERIOR ELEVATIONS

- **Detail B1/A407 A116 – CLASSROOM GRADE 3 – EAST included paper towel and soap dispenser**
- **Detail B3/A407 A116 – CLASSROOM GRADE 4 – EAST included paper towel and soap dispenser**
- **Detail C3/A407 ST2 – NORTH STAIR SOUTH adjusted blank wall tag to show correct wall finish**

Sheet A408 – INTERIOR ELEVATIONS

- **Detail C4/A408 A119 – CLASSROOM GRADE 4 – EAST included paper towel and soap dispenser**
- **Detail D1/A408 A125 – CLASSROOM GRADE 5 – WEST included paper towel and soap dispenser**
- **Detail D3/A408 A122 – CLASSROOM GRADE 5 – WEST included paper towel and soap dispenser**

Sheet A409 – INTERIOR ELEVATIONS

- **Detail B1/A409 A125 – CLASSROOM GRADE 3 – WEST included paper towel and soap dispenser**
- **Detail B3/A409 A124 – CLASSROOM GRADE 5 – D updated to A124 – CLASSROOM GRADE 5 – WEST**
- **Detail B3/A409 A124 – CLASSROOM GRADE 5 – WEST included paper towel and soap dispenser**

Sheet A411 – INTERIOR ELEVATIONS

- **Window sill keynote added to elevation D4/ A411.**

Sheet A412 – INTERIOR ELEVATIONS

- **Elevation A3/ A412 and A4/ A412 view extend updated to present entire wall. Other views on sheet moved up to fit new elevation sizes.**
- **Window sill keynote added to elevation A4/ A412**

Sheet A413 – INTERIOR ELEVATIONS

- **Detail C1/A413 B115 - CLASSROOM GRADE 3 – SOUTH included paper towel and soap dispenser**
- **Detail C3/A413 A118 - CLASSROOM GRADE 4 – EAST included paper towel and soap dispenser**

Sheet A415 – INTERIOR ELEVATIONS

- **Adjusted MEDIA CENTER vertical mullions in system to correctly align with structural and interior elements on elevations B1/ A202 and B2/ A202.**

Sheet A416 – INTERIOR ELEVATIONS

- **Detail A1/A416 A209 – ART CLASSROOM – NORTH included paper towel and soap dispenser**

Sheet A417 – INTERIOR ELEVATIONS

- **Detail A3/A417 A211 – CLASSROOM GRADE 2 – EAST included paper towel and soap dispenser**
- **Detail B3/A417 A212 – CLASSROOM GRADE 2 – EAST included paper towel and soap dispenser**
- **Detail C6/A213 A213 – CLASSROOM GRADE 2 – WEST included paper towel and soap dispenser**
- **Detail D6/A417 A214 – CLASSROOM GRADE 1 – WEST included paper towel and soap dispenser**

Sheet A418 – INTERIOR ELEVATIONS

- **Detail B1/A418 A216 – CLASSROOM GRADE 1 – WEST included paper towel and soap dispenser**
- **Detail B2/A418 A215 – CLASSROOM GRADE 1 – WEST included paper towel and soap dispenser**

Sheet A420 – INTERIOR ELEVATIONS

- **Window sill keynote added to elevation A1/ A420**

Sheet A422 – INTERIOR ELEVATIONS

- **Detail A1/A422 C238 – CLASSROOM KINDERGARTEN – NORTH included paper towel and soap dispenser**
- **Detail D1/A422 A241 – CLASSROOM PRESCHOOL – NORTH included paper towel and soap dispenser**
- **Detail D3/A422 C239 – CLASSROOM KINDERGARTEN – NORTH included paper towel and soap dispenser**

Sheet A423 – INTERIOR ELEVATIONS

- **Detail E1/A423 C235 – CLASSROOM KINDERGARTEN – NORTH included paper towel and soap dispenser**

Sheet A531 – ROOF DETAILS

- **Detail D5/ A531 added to sheet for Roof Access Ladder.**
- **Updated detail C6/ A531 with new wall stud size.**
- **Added cant strip to details A1/ A531, A3/ A531, B5/ A531, B6/ A531, C2/ A531, C3/ A531, C5/ A531, C6/ A531, and D1/ A531.**

Sheet A551 – PLAN DETIALS

- **Detail C3/ A551 corrected to match current plan design.**

Sheet A552 – PLAN DETAILS

- **Renumbered views on sheet to match NWL standards.**
- **C1/ A552 detail 75 – Added dimensions.**
- **E1/ A552 wall detail – cleaned up view, was cropped incorrectly.**
- **C3/ A552 – detail 74 added dimensions.**
- **Updated detail A3/ A552.**

Sheet A553 – TOP OF WALL DETAILS

- **Updated details D1/ A553, D2/ A553, D5/ A553, D6/ A553, E4/ A553, E5/ A553, and E6/ A553 with text callouts.**

Sheet A561 – MISCELLANEOUS DETAILS

- **Detail A3/ A561 updated with dimension and new to help coordinate lockers**
- **Detail A5/ A561 added to help coordinate lockers**

Sheet A571 – CEILING DETAILS

- **Updated detail C4/ A571 with missing detail call out information.**

Sheet A572 – CEILING DETAILS

- **Adjusted lighting in C1/ A572 to allow 3D view to be more visible.**

Sheet A601 – DOOR SCHEDULE & HARDWARE

- **Glazing finish G3 and G4 updated to safety film vs laminated.**
- **Hardware column within the door schedule has been updated and filled**
- **Door panel elevation WG01 has been updated to WD02**

Sheet A641 – STOREFRONT ELEVATIONS

- **Adjusted MEDIA CENTER vertical mullions in system to correctly align with structural and interior elements on elevations A1/ A202 and A2/ A202.**
- **Detail callout B3/ A646 add to elevation S10.**
- **Glazing finishes G3 and G4 updated to safety film vs laminated.**
- **Vertical callout of detail A5/ A646 replaced with D1/ A646 on C13 elevation.**
- **Detail D1/ A645 added to S23.**

Sheet A646 – STOREFRONT DETAILS

- **Detail B3/ A646 updated to match structural drawings.**
- **Added detail D1/ A646 for window seal connection at media center storefront C13**
- **Detail A6/ A646 updated mullion thickness**

Sheet A800 – INTERIOR FINISHES

- **Detail D1/ A800 and D5/ A800 have been updated with a key to help distinguish between multiple tile textures.**

Sheet A901 – OVERALL LEVEL 01 TILT UP PANEL PLAN

- **All stairs, mechanical equipment, and footings were removed from view to provide better clarity on plan.**
- **Trash enclosure walls and elevations were moved to A901 – OVERALL LEVEL 01 TILT PANEL PLAN**
- **Detail A1/ A918 call out removed from sheet**

Sheet A902 – OVERALL LEVEL 02 TILT PANEL PLAN

- **Section detail B6/ A920 removed from view.**
- **Stairs, mechanical equipment, and non-tilt panel lines/ walls were removed from view to provide better clarity on plan.**
- **Placed trash enclosure wall elevations on view.**
- **Detail A1/ A918 call out removed from sheet**

Sheet A910 – TILT UP PANEL ELEVATIONS

- **TILT-UP WALL PANEL LEGEND updated with 14” concrete panel**
- **TILT-UP WALL PANEL LEGEND updated SH note, with correct symbol.**
- **GENERAL NOTES -TILT-UP ELEVATION legend updated note 1 with correct detail number**
- **GENERAL NOTES -TILT-UP ELEVATION legend updated note 4 with correct detail number**
- **Detail callout B5 /A920 adjusted on sheet to improve legibility.**

- **Added missing penetration for wallpack on C2/ A910.**
- **Added missing electrical pipe penetration on A3/A910**
- **Added missing penetration for wallpack on C5/ A910.**
- **Add detail call out A1/ A921 on elevations C1/ A910,**
- **PANEL NOTES included to PLUMBING OPENING to M.O.**
- **Detail C6/A910 TILT-UP ELEVATION – TA-01 – adjusted and updated downspout opening**
- **Detail C5/A910 TILT-UP ELEVATION – TA-02 – included plumbing device**
- **Detail C4/A910 TILT-UP ELEVATION – TA-03 – adjusted and updated downspout opening**
- **Detail C2/A910 TILT-UP ELEVATION – TA-04 – adjusted updated downspout opening and plumbing box**
- **Detail A4/A910 TILT-UP ELEVATION – TA-08 – included electrical outlet**

Sheet A911 – TILT UP PANEL ELEVATIONS

- **TILT-UP WALL PANEL LEGEND updated with 14" concrete panel.**
- **TILT-UP WALL PANEL LEGEND updated SH note, with correct symbol.**
- **GENERAL NOTES -TILT-UP ELEVATION legend updated note 1 with correct detail number.**
- **GENERAL NOTES -TILT-UP ELEVATION legend updated note 4 with correct detail number.**
- **Detail callout A1/ A921 added to detail C3/ A911.**
- **Detail A5/A911 TILT-UP ELEVATION – TA-15 – included electrical speaker and plumbing box.**

Sheet A912 – TILT UP PANEL ELEVATIONS

- **TILT-UP WALL PANEL LEGEND updated with 14" concrete panel.**
- **TILT-UP WALL PANEL LEGEND updated SH note, with correct symbol.**
- **GENERAL NOTES -TILT-UP ELEVATION legend updated note 1 with correct detail number.**
- **GENERAL NOTES -TILT-UP ELEVATION legend updated note 4 with correct detail number.**
- **Detail callout C6 /A920 adjusted on sheet to improve legibility.**
- **Detail callout A3 /A920 adjusted on sheet to improve legibility.**
- **Detail D3/A912 TILT-UP ELEVATION – TB-02 – included GENERAL NOTE location of plumbing box.**
- **Detail D1/A912 TILT-UP ELEVATION – TB-03 – included electrical speaker location and removed roof drain openings.**
- **Detail A6/A912 TILT-UP ELEVATION – TB-04 – included electrical devices location. Updated plumbing opening.**
- **Detail A6/A912 TILT-UP ELEVATION – TB-08 – included electrical devices location.**

Sheet A913 – TILT UP PANEL ELEVATIONS

- **TILT-UP WALL PANEL LEGEND updated with 14" concrete panel.**
- **TILT-UP WALL PANEL LEGEND updated SH note, with correct symbol.**
- **GENERAL NOTES -TILT-UP ELEVATION legend updated note 1 with correct detail number.**
- **GENERAL NOTES -TILT-UP ELEVATION legend updated note 4 with correct detail number.**
- **Detail callouts A3/ A920 and C6/ A920 adjusted on sheet to improve legibility.**
- **Added missing penetration on C5/ A913 and A1/ A913**
- **Removed penetration that no longer exists on C5/ A913**
- **Removed ceiling fire alarm from elevation C3/ A914 and C5/ A914.**
- **Detail C5/A913 TILT-UP ELEVATION – TB-09 – included electrical and plumbing device locations.**
- **Detail C4/A913 TILT-UP ELEVATION – TB-10 – included electrical device location.**
- **Detail C1/A913 TILT-UP ELEVATION – TB-12 – updating plumbing opening.**
- **Detail C3/A913 TILT-UP ELEVATION – TB-11 – included electrical device location.**
- **Detail A5/A913 TILT-UP ELEVATION – TB-13 – included electrical and plumbing device location.**
- **Detail A3/A913 TILT-UP ELEVATION – TB-16 – included electrical and plumbing opening location.**
- **Detail A2/A913 TILT-UP ELEVATION – TB-17 – adjusted height of lower panel of TB-17.**
- **Detail A1/A913 TILT-UP ELEVATION – TB-18 – adjusted mechanical opening.**

Sheet A914 – TILT UP PANEL ELEVATIONS

- **TILT-UP WALL PANEL LEGEND updated with 14" concrete panel.**
- **TILT-UP WALL PANEL LEGEND updated SH note, with correct symbol.**

- **GENERAL NOTES -TILT-UP ELEVATION legend updated note 1 with correct detail number.**
- **GENERAL NOTES -TILT-UP ELEVATION legend updated note 4 with correct detail number.**
- **Removed red lines from C4/ A914**
-
- **Added missing electrical penetration on C1/ A914, C3/ A914, and A5/ A914.**
- **Detail A5/A914 TILT-UP ELEVATION – TC-02 –plumbing device location**
- **Detail A3/A914 TILT-UP ELEVATION – TC-03 – updated plumbing penetrations**
- **Detail A1/A914 TILT-UP ELEVATION – TC-04 – included electrical device location and updated plumbing penetrations**
- **Detail C5/A914 TILT-UP ELEVATION – TB-19 – eliminated mechanical opening and included plumbing penetrations**
- **Detail C4/A914 TILT-UP ELEVATION – TB-20 – included plumbing penetrations**
- **Detail C5/A914 TILT-UP ELEVATION – TB-19 – eliminated mechanical opening and included plumbing openings**
- **Added missing electrical penetration on Detail A5/ A914**
- **Detail C1/A914 TILT-UP ELEVATION – TB-22 – adjusted mechanical and plumbing penetrations**

Sheet A915 – TILT UP PANEL ELEVATIONS

- **TILT-UP WALL PANEL LEGEND updated with 14" concrete panel**
- **TILT-UP WALL PANEL LEGEND updated SH note, with correct symbol.**
- **GENERAL NOTES -TILT-UP ELEVATION legend updated note 1 with correct detail number.**
- **GENERAL NOTES -TILT-UP ELEVATION legend updated note 4 with correct detail number.**
- **Added missing electrical penetration to D1 / A915 and B4/ A915**
- **Removed ceiling fire alarm from elevation D1/ A915, A1/ A915, and A4/ A915.**
- **Detail D5/A915 TILT-UP ELEVATION – TC-05 – included electrical and plumbing device locations**
- **Detail D4/A915 TILT-UP ELEVATION – TC-06 – included electrical device location**
- **Detail D3/A915 TILT-UP ELEVATION – TC-07 – included electrical device location**
- **Detail B4/A915 TILT-UP ELEVATION – TC-10 – included electrical device locations**
- **Detail B3/A915 TILT-UP ELEVATION – TC-11 – included electrical and plumbing device locations**
- **Detail B1/A915 TILT-UP ELEVATION – TC-12 – included electrical device location**
- **Detail A6/A915 TILT-UP ELEVATION – TC-13 – clarified electrical device locations**
- **Detail A5/A915 TILT-UP ELEVATION – TC-14 – included electrical device locations**
- **Detail A2/A915 TILT-UP ELEVATION – TC-16 – included plumbing penetration locations**
- **Detail A1/A915 TILT-UP ELEVATION – TC-17 – included electrical device location**

Sheet A916 – TILT UP PANEL ELEVATIONS

- **TILT-UP WALL PANEL LEGEND updated with 14" concrete panel**
- **TILT-UP WALL PANEL LEGEND updated SH note, with correct symbol.**
- **GENERAL NOTES -TILT-UP ELEVATION legend updated note 1 with correct detail number.**
- **GENERAL NOTES -TILT-UP ELEVATION legend updated note 4 with correct detail number.**
- **Added missing electrical penetration to A3 / A916.**
- **Detail D5/A916 TILT-UP ELEVATION – TC-18 – included plumbing device location and updated plumbing opening.**
- **Detail D3/A916 TILT-UP ELEVATION – TC-19 – included electrical device location.**
- **Detail D2/A916 TILT-UP ELEVATION – TC-20 – included electrical device location.**
- **Detail C5/A916 TILT-UP ELEVATION – TC-21 – included electrical device location.**
- **Detail C3/A916 TILT-UP ELEVATION – TC-22 – included electrical device location.**
- **Detail C3/A916 TILT-UP ELEVATION – TC-23 – included electrical device locations.**
- **Detail A6/A916 TILT-UP ELEVATION – TC-24 – included electrical device location.**
- **Detail A5/A916 TILT-UP ELEVATION – TC-25 – adjusted mechanical opening.**
- **Detail A4/A916 TILT-UP ELEVATION – TC-26 – adjusted mechanical opening.**

Sheet A917 – TILT UP PANEL ELEVATIONS

- **TILT-UP WALL PANEL LEGEND updated with 14" concrete panel.**
- **TILT-UP WALL PANEL LEGEND updated SH note, with correct symbol.**

- **GENERAL NOTES -TILT-UP ELEVATION legend updated note 1 with correct detail number.**
- **GENERAL NOTES -TILT-UP ELEVATION legend updated note 4 with correct detail number.**
- **Added missing electrical penetration to elevations A2/ A917, A3 / A917, and A4/ A917.**
- **Detail A2/A917 TILT-UP ELEVATION – TC-37 – included electrical mag hold.**
- **Detail D4/A917 TILT-UP ELEVATION – TC-30 – included electrical device location.**
- **Detail D2/A917 TILT-UP ELEVATION – TC-31 – updated electrical panel location.**

Sheet A918 – TILT UP PANEL ELEVATIONS

- **TILT-UP WALL PANEL LEGEND updated with 14" concrete panel.**
- **TILT-UP WALL PANEL LEGEND updated SH note, with correct symbol.**
- **GENERAL NOTES -TILT-UP ELEVATION legend updated note 1 with correct detail number.**
- **GENERAL NOTES -TILT-UP ELEVATION legend updated note 4 with correct detail number.**
- **Detail A6/A918 TILT-UP ELEVATION – TC-38 – included electrical device locations.**
- **Detail A5/A918 TILT-UP ELEVATION – TC-39 – included electrical device locations.**
- **Detail A4/A918 TILT-UP ELEVATION – TC-40 – included electrical device locations.**
- **Detail A2/A918 TILT-UP ELEVATION – TC-41 – included electrical device locations.**

Sheet A920 – TILT UP PANEL DETAILS

- **Detail B5/ A920 updated elevation tag text.**
- **Added exterior and interior notes to Detail B5/ A920, B6/ A920, and C6/ A920 to improve clarity.**

Sheet A921 – TILT UP PANEL DETAILS

- **Sheet A921 Added to set.**
- **Detail A1/ A921 added to sheet.**
- **Detail A2/ A921 added to sheet.**

A T T A C H E D A D D E N D A

CIVIL
See Attachment

FOOD SERVICES
-

STRUCTURAL
See Attachment

MECHANICAL
See Attachment

PLUMBING
See Attachment

ELECTRICAL
See Attachment

AUDIOVISUAL
-

END OF ADDENDUM

CONSTRUCTION INC.

QUESTIONS FOR OWNER /ARCHITECT / ENGINEERS

Cache County School District
Hyde Park Elementary School
March 28, 2025

1. There aren't any specifications regarding the kitchen equipment. Will these be provided?

   NWL RESPONSE (20250329): Please see Addendum #01

2. Please provide specifications for the door hardware.

   NWL RESPONSE (20250329): Door Hardware Schedule will be provided in the upcoming Addendum

3. PSISC and one other supplier for the toilet compartments say that they are unable to provide pricing as called out because of the 9'-2" dimension listed on the stall doors. Our subs are looking into other options for this. Are there other options/suppliers that can be used?

   NWL RESPONSE (20250329): Description of door height in the specification will be updated to reflect detail A5/A801. Door overall height is 7'-0".

4. What items will be OFCI? Hand dryers and changing tables are called out, but there isn't any specification for them. Please clarify.

   NWL RESPONSE (20250408): Paper towel toilet paper dispenser will OFCI. The changing table in 11 7910 is an adult changing table located in restroom

Round 2 Questions

5. Please provide details for all site retaining walls and footings. Also, please include top of wall elevations. A cut of the south stair section would be helpful as well.

   NWL RESPONSE (20250329): Information will be provided for top and bottom of concrete site wall. Refer to Detail 8/S601 for required footings. Refer to detail A1/AS103 – SITE STAIR SECTION referenced on Sheet AS103 – ARCHITECTURAL SITE PLAN.

   RESPONSE FROM CACHELANDMARK: Top of wall (TW: XXXX) elevations have all been added to the grading plan sheets. Retaining wall callouts referring to the structural detail have been added to the Grading Plans.

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6. On sheet AS101, the detail for the playground curb references a detail for bollards. Please provide a detail for the playground curb.

   NWL RESPONSE (20250329): Detail at playground has been updated to A6/AS102. This will be reflected in the upcoming Addendum.

7. Details D5 and D6 on sheet AS102 reference 3 types of concrete construction, but there is no clarification as to where each option should be constructed. Please clarify.

   NWL RESPONSE (20250408): Clarification was given in Addendum #02. Contractor will determine with the architect which detail is appropriate when final grading and conditions is provided.

8. Please provide a detail for the mow strip that abuts the building. Should we install rebar dowels and/or expansion materials?

   NWL RESPONSE (20250329): Detail will be added for mow strip in upcoming addendum.

Round 3 Questions

9. There aren't any details for the trash enclosure. Please provide footing requirements, wall construction, elevations, etc.

   NWL RESPONSE (20250329): Sheet AS101 calls out elevation C2, C3, and C5/A918. These enclosures will be concrete tilt-up panels

10. Detail A3 on AS102 calls for a 16" mow curb, but the detail shows dimensions equal to 2'. Please clarify which is correct. We would prefer a 2' mow curb.

    NWL RESPONSE (20250329): Description of mow curb has been changed to 24" to match the drawing and dimension.

March 28, 2025

11. On sheet CU301, it is somewhat unclear where the storm drain pipe should be perforated pipe with fabric and rock. Please clarify the extent of the perforated pipe areas.

    RESPONSE FROM CACHELANDMARK: Callouts have been adjusted and more specific language added to the note.

12. There are some SD keynotes shown on CU301, but nothing is shown that reflects those keynotes. Please clarify. (See Attachment)

    RESPONSE FROM CACHELANDMARK: These callouts have been removed.

13. Details A5 and A6/AS101 are not noted on the site plan. Please clarify where these should be constructed.

    NWL RESPONSE (20250408): Location of concrete bench have been added.

14. Should there be corner guards at these locations? (See attached for rooms C238, C239, and C256)

    NWL RESPONSE (20250331): Corner guards will be included in the spaces in question

March 31, 2025

15. On the RCP plans there is a note for ceiling access hatches but there aren't any shown on the floor plans. Please clarify if there is any that need to be installed.

    VBFA/RESOLUT RESPONSE (20250408): Access panels have been added to the mechanical sheet in the addendum.

16. Detail E2/A357 shows the different finishes of the stair components. The way it is detailed, we will have a difficult time getting anyone to bid on that. This needs to be modified. We suggest deleting powder coating and stainless steel entirely. Powder coating cannot be touched up in the field and stainless steel is not cost effective. We propose using painted steel construction. Please advise.

17. Will there be an erosion control plan provided? Is there any silt fence that needs to be installed or inlet protection? If not, that is fine. We can have our in house SWPPP personnel determine where these items are needed.

    NWL RESPONSE (20250408): Please have your in house personnel determine this.

18. Will you please clarify the spec on the bike racks? Barco 18 doesn't reflect the options provided by Barco.

    NWL RESPONSE (20250408): Bike racks will not be installed during this phase, only a concrete pad will be provided for installation of bike racks at later date.

19. Detail 7/P501 shows a sampling manhole for the grease interceptor. This is not shown or reflected on the civil plans. If the sampling manhole is required, please provide specifications including diameter and depth.

VBFA/RESOLUT RESPONSE (20250408): The sampling manhole location will be shown on sheet P102C and shall be of the size detailed on 7/P501.

RESPONSE FROM CACHELANDMARK: The manhole has been added to the plans. See sheet CU304.

20. Referring to sheet CU302, there is a section of SD pipe in the landscape area between boxes C3 and C2 that is not called out. Please clarify. (See Attached) There is a similar line shown between the southwest building corner and the long set of stairs to the south between boxes C1 and N1.

    RESPONSE FROM CACHELANDMARK: These lines represent flowlines not pipes. See the grading plans for additional detail

21. Please see attached site concrete & pavement markings questions attachment.

22. Specifications call for a 30 year warranty, but with 60 mil PVC listed, we will need to use 80 mil PVC for the requested warranty. Please advise.

    NWL RESPONSE (20250408): Provide a 60 mil PVC membrane with a 20 year warranty. What's the maximum warranty provided with a 60 mil PVC membrane? If the school district wishes to could they purchase the extra warranty?

23. Specifications list a vapor barrier in the roof system to "comply with requirements of fire rating classification" (2.03D). I do not see any notes of the fire rating of the roof itself. Is a vapor barrier required in the roof assembly?

    NWL RESPONSE (20250408): No vapor barrier is required.

24. A gypsum substrate board is also listed in the specifications, and says "see drawings for locations" (2.04 A.1.a). I do not see anywhere in the plans that calls for a gypsum board over the roof deck, only walls and ceilings. Is a substrate board required in the roof assembly? If so, what areas?

    NWL RESPONSE (20250408): Deck sheathing is not required

Flooring Sub Questions 03/31/2025

1. Page A101C: Custodial Storage A121 shows FC3 Walk off carpet. But pattern printed appears to be FE1 Sealed Concrete. Please advise.

    NWL RESPONSE (20250331): Custodial Storage A121 is FE1. Will be updated in Addendum #02.

2. Page A101C: Stair A1 (ST2) Pattern shows FE1. But page A800 Stair Legend shows SM2 Roppe Rubber Treads/Risers. Which is correct at these stairs?

   NWL RESPONSE (20250331): Stair A1 is SR1 Rubber Treads and Risers. Will be updated in Addendum #02.

3. Page A800 Finish Legend - Base shows B1 Color Knite Eucalyptus / Corollarry Greenbuc. Do we assume Corollary Greenbac is the B1 carpet cove for CUSTOM FC2 or do we match B1 in FC2 areas to Custom carpet? Where is Corollary Greenbuc used?

   NWL RESPONSE (20250331): Carpet base should match room finish floor carpet pattern. Finish Legend will be updated to reflect correct carpet pattern. Will be updated in Addendum #02.

4. A800 Is there a detail that shows Corridor Wainscot Tile to floor carpet transition? How is this treated? Is wall tile laid and carpet cut up to tile?

   NWL RESPONSE (20250331): The carpet should be installed underneath tile and flooring transition. A detail will be included to represent this.

5. A102C Main Entry B141 Shows FEI Sealed Concrete with B1 Carpet Cove. Should this be FC3? What is the correct wall base?

   NWL RESPONSE (20250331): The finish carpet should be FC3. The wall base is B1, but if a carpet base cannot be manufactured from entry carpet then rubber base is acceptable.

6. Does Elevator received FC2 Floor Carpet or a different flooring finish?

   NWL RESPONSE (20250408): Please provide carpet for the elevator.

7. A102C Does B132 Get B1 as shown or B2 Rubber base in the FEI specified area?

   NWL RESPONSE (20250331): Timout Room B132 finish floor should be FC2 with B1 as the base.

8. Spec Book Page 096800 Carpeting - 4 shows walk off carpet to get B3 (Match FC3). Is this rubber base or does it get B3 Quarry Tile cove which is what is shown on finish legend -Base A800.

   NWL RESPONSE (20250331): Type B3 will be removed from 09 6800

9. Spec Book Page 096500 Resilient Flooring -6 shows B2 as options Roppe, Flexco, Johnsonite, or Mannington. A800 Spells out B2 to be Mohawk 4" Aircraft Carrier. Which is correct?

NWL RESPONSE (20250331): It should be Mohawk Aircraft Carrier. Specification will be updated to match base schedule

10. Spec Book 093000 Tiling - 3 WT1 shows color story Pinstripes as "Fluted" and "Wave Crest" in colors Tranquility & Stable. Which Texture is it supposed to be? Both colors and/or both textures? Please clarify.

    NWL RESPONSE (20250331): Field color is STABLE. Refer to interior elevations for location of accent color TRANQUILITY

11. Does FT2 Quarry Tile in Kitchen require Epoxy IEG (Fat/oil resistant) grout? Or is "All in One" Grout (Mapei Ultracolor FA suitable)?

    NWL RESPONSE (20250408): Please provide Epoxy IEG grout.

12. A107C Kitchen, Dishwash, Locker, Dry Storage, and Restroom show WT5 Wall Tile. Should this be WT6 in these areas?

    NWL RESPONSE (20250331): The finish for the spaces above in question should be WT6. This will be updated and reflected on Addendum #02

April 2, 2025

25. Will the classrooms have a soap dispenser and paper towel dispenser? There aren't any shown on the elevations.

    NWL RESPONSE (20250408): Classrooms will have soap and paper towel dispensers. Paper towel dispensers will be owner furnished contractor installed.

26. Will residential appliances be Owner Provided, Contractor Installed?

    NWL RESPONSE (20250408): Yes, residential appliances will be Owner Furnished Contractor Installed.

27. Restrooms B222 & B224 don't show any toilet paper dispensers. Should they be added in these restrooms?

    NWL RESPONSE (20250408): They will be added.

28. The question submitted regarding the tiling did not address the texture for the colors Stable and Tranquility. Should it be Fluted or Wave pattern?

    NWL RESPONSE (20250408): The textures will be both Fluted and Wave pattern. A detail will be included to clarify tile type.

29. Please review the Division 10 questions below:

Articles 1.01.B1-2 call for knock down (unassembled) lockers. Articles 1.06.A.3 and 2.03.B call for welded lockers. Which type of locker is required please?

Article 2.03.A.1.a calls for single-tier lockers. Detail D1 on plan sheet A426 shows two-tier lockers. How many tiers are required at the kitchen lockers please?

Articles 2.03.A.1.a and 2.03.A.2.a call for 15"W lockers. Details D1 on plan sheet A426 and A4 on plan sheet A415 show 12"W lockers. What size – width and depth - lockers are required please?

NWL RESPONSE (20250408): All lockers should be welded. The kitchen lockers should have one tier. Lockers in the kitchen will be 15" x 15" and the lockers in the reading facilitator room will be 12" x 12"

30. Our landscaper is asking for clarification on caliper, height, or gallon pot size for the plants listed for the project. Will they be at the landscapers discretion or is there specified sizes required?

    RESPONSE FROM CACHELANDMARK: Trees: Deciduous 2" Cal/B&B for all large shade trees & 1.5" for medium and small -evergreen 6' minimum height with strong central leader
    Shrubs: 5 gal
    Perennials and grasses: 3 gal

31. There are some architectural details that show water stop in the cast in place concrete walls. Is this necessary?

    NWL RESPONSE (20250408): The purpose of the water stops are to make sure no water ever enters the tunnel or elevator pit.

32. There is a spot footing on grid 11 in area C where the spot footing elevation is called out at elevation 112'. Please clarify if this is correct.

    BHB Response: This is correct.

33. Please confirm that no fly ash should be included in the mix design for the tilt up walls. finish/color for the CMU, on a detail on the cmu it calls for Split Face finish even with the CMU not being exposed. But on the specs it mentions Standard and Honed Face CMU.I'm going to guess that for non-exposed blocks we would do Natural Smooth CMU, and do a Color Honed CMU where exposed?Let me know if you can help with this, and if you know what finish/color is wanted for the CMU on the project.

    BHB Response: Per Specs, no fly ash permitted in Tilt Panels. It's our understanding that Fly Ash in tilt panels is not acceptable as fly ash will delay early concrete strength gain, which in turn, delays how soon the contractor is able to tilt the panels. Non-exposed block should be natural smooth CMU.

NWL RESPONSE (20250408): The masonry wall that divides the north stair is honed as well as the front masonry wall at the stage. The rest is exposed but has painted finish, refer to interior elevations. Please provide available colors, we would like to keep it consistent to the finish tilt panel color. A honed charcoal or natural would be acceptable.

34. Harris Controls as an approved HVAC controls vendor (Section 230900 – 2.2) to supply a Johnson Controls Facility Explorer (FX) system.

    VBFA/RESOLUT RESPONSE (20250408): Harris Controls are approved installing Johnson Controls Facility Explorer (FX) system.

35. I see the spec is calling to have energy readings sent to a building management system via BAC-NET but I also see you are asking for a dedicated power management system. Is the end user satisfied with the energy readings being sent to the building management system or are they wanting a secondary power management system to monitor specific power readings? If you the customer wants a secondary system we want to make sure we provide our PME software

    BNA/Resolut RESPONSE (20250407): Provide PME Software along with the ability for the BMS system to receive information from the metering system via BAC-NET.

36. Panelboards 2HC1 and 2HB1 have feeders showing 0A feeding INV1500W. What amperage is needed to feed those inverters?

    BNA/Resolut RESPONSE (20250407): 20A/1P Breaker. Should match the lighting circuit breaker. This will be updated and reflected in Addendum #03.

37. Panelboards 2LBM1 and 2LCM1 have feeders showing 1A feeding ATC. 1A is unique. What amperage is needed to feed that equipment?

    BNA/Resolut RESPONSE (20250407): Provide a 20A/1P Breaker. This will be updated and reflected in Addendum #03

38. Spare breakers, especially in the 480V panelboards, will inflate the cost. Does the end user want to pay for the spare breakers up front or would they rather remove them from the plans and add the breakers later as needed?

    BNA/Resolut RESPONSE (20250407): Yes, provide as shown. Where shown as "PROVISION" simply means, space and not spare.

39. Are we allowed to use an alternate on the power conditioners?

BNA/Resolut RESPONSE (20250407): Yes. However, the supplier and contractor will be responsible for updating the infrastructure accordingly to work with the alternate power conditioner.

40. Will the US and Utah playground maps have the counties and states painted different colors or just a painted outline?

    NWL RESPONSE (20250408): The US and UTAH maps will be just painted outlines.

41. On page AS101 there are arrows that aren't on the overall site plan. Are those painted arrows or just arrows showing the traffic flow?

    NWL RESPONSE (20250408): The final count may not require as many arrows, they are meant to be painted. They are also not to scale. Please provide a bid typical size painted arrows.

42. I can't see and curbs that show needed red paint. I would assume there is likely some.

    NWL RESPONSE (20250408): Yes, there will be painted curbs to indicate fire truck lane, bus lane and parent drop-off.

43. One question that came up today as I was reviewing the spec's in regards to the following paragraph.
    2. Horizontal Cabling
    a. Provide Cat 6A UTP, min-compliant, 4-Pair 100Ω Balanced Twisted Pair
    Cable to all locations shown on plans with the following minimum quantities by space, regardless of what is shown on plans:
    i. Offices; 4 cables each
    ii. Workstations; 3 cables each
    iii. Conference Rooms; 4 cables each
    iv. Reception; 4 cables
    v. Copy Rooms; 4 cables each
    vi. Furniture Feeds; 2 cables each

    There are many instances on the drawings where this is not followed. For instance, the workstations in the classrooms are shown with 2-cables each, but this paragraph states all workstations need a minimum of three cables.

    BNA/Resolut RESPONSE (20250407): Provide drops per plan documents and required systems infrastructure. This paragraph will be removed via addendum #3.

44. Are we to quote what is shown on the drawings, or add cables based on this note? This would add quite a bit of cabling and cost.

    BNA/Resolut RESPONSE (20250407): Provide drops per plan documents and required systems infrastructure. This paragraph will be removed via addendum #3.

45. Article 2.01.A.1 calls out the Concord Industries Monarch model flagpole as the basis of design. The halyard type on the Monarch is an internal cam cleat.

    NWL RESPONSE (20250408): Please provide an internal halyard.

46. Article 2.04.E calls for (a) Dome Down Lighting option. The Light Fixture Schedule is calling for a fixture that delivers 2000 lumens and a color temperature of 4000 Kelvin. I don't see any beacon compatible with an internal cam cleat halyard that meets those requirements. Is there a basis of design / make & model for the beacon please?

    NWL RESPONSE (20250408): Please provide a outside halo light midway up from the flag pole to light up from below.

47. Article 2.04.B calls for a double truck. It's my understanding that double trucks are not available on internal cam cleat halyards. Is a single revolving truck acceptable?

    NWL RESPONSE (20250408): If there are not double trucks available for internal cam cleat halyard then a single revolving truck is acceptable.

48. The details state that there may be 6' and 8' Chainlink fence on the project, but there doesn't seem to be any clarification as to where these two fences should be placed on the site plans. Will further clarification be provided?

    NWL RESPONSE (20250408): Chain-link fence should be 6'.

49. Can you provide TOW elevations where tilt up Wall panels Sit on top of the CW-14 Walls along grid H, grid 6 and grid 10. A910-A918 provide some elevations from finish floor to bottom of tilt up but more clarification is needed for TOW elevation.

    BHB Response: Refer to details along each gridline:
    Gridline 6: Top of wall at bottom of slab per detail 12/S502
    Gridline 13: Top of wall at 2'-0" below top of slab per detail 13/S502
    Gridline 10: Top of wall at 2'-0" below top of slab. Detail updated to call our dimension
    Gridline H: Top of wall at bottom of concrete over metal deck slab 6.1/4" below 116'-0".
    Top of wall = 115'-5.3/4"
    Confirm dimensions with arch.

    NWL RESPONSE (20250408): TOW from top of CW-14 for TC-35, TC-36 and TC-37 is 30'-6 ¾".

50. Sheet S111C and S121C call out SC-6A in two locations on grid line H next to grid lines 7 and 8. Please Provide top of wall steel column connection detail. Location and Elevation.

    BHB Response: Concrete column sits on top of foundation wall. New detail added 22/S513.

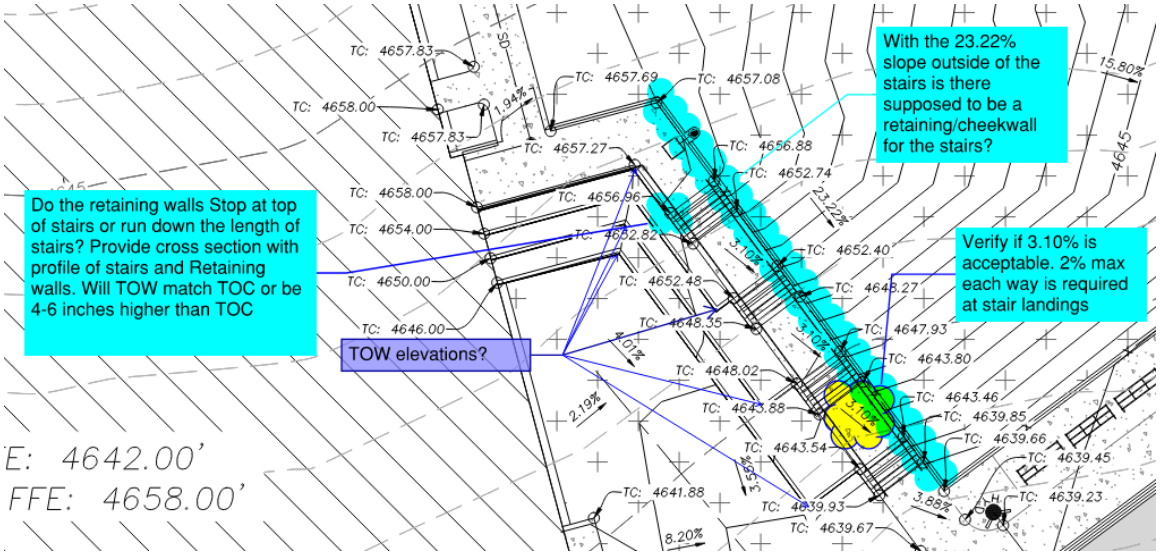
51. Sheet A351 references Details D1 and E1 on A315 which is concrete bench over geofoam. Detail says refer to structural but no details in structural show the benches. It also calls out E1 on sheet A301 in mechanical room, E1 on A302 in Classroom Grade 5, E1 on A304 in electrical room, D1 on A303 in Main entry. A 315. Please verify if benches are in these locations or just the main entrance by the stairs.

NWL RESPONSE (20250408): Detail has been updated to not to refer to structural for the bench over geofoam. Detail call out E1/A315 has been removed from previously mentioned sheets. It is only applicable to the bench at the main entrance.

52. Along east side of building will thickened edge concrete be required for asphalt at fire lane. Please provide detail.

RESPONSE FROM CACHELANDMARK (20250408): The top of concrete and top of asphalt are flush in this area. No thickened edge concrete is necessary at this location.

53. Site Stair and retaining wall questions.



RESPONSE FROM CACHELANDMARK (20250408): Sheet CG405 has been added showing the stair and wall section. No cheekwall should be necessary on the south side of the stairs. The first 2 feet of each landing is at a 2% slope to meet the necessary slope requirements. The 3.10% will be in between these areas. Grade break lines have been added to the plans to represent this.

54. Window schedule A641 calls for glass type G3 1" Clear Low-e Laminated glass on types S1 & S7. However, the glazing spec for G3 says "not used". What type of glass is required for this frame?

    NWL RESPONSE (20250408): Glazing schedule and specification will be updated in addendum #03

55. On the same schedule for glass type G4, the same is listed in the specification. Please clarify what type of glass should be used.

    NWL RESPONSE (20250408): Glazing schedule and specification will be updated in addendum #03

56. The one-line drawing E380 does not show the Chiller. Please indicate the wire and conduit size for the chiller.

    BNA/Resolut RESPONSE (20250407): Please refer to EQUIPMENT SCHEDULE on sheet E002 for conduit, wire, and breaker size information.

57. We cannot find specific colors for the P-lam that is specified. Will they be standard colors or premium colors?

    NWL RESPONSE (20250408): The spec will be updated to reflect selected color. The color for the casework will be Wilsonart Highline 7970

58. What specific stainless steel woven mesh is required?

    NWL RESPONSE (20250408): The mesh called out in 05 7300 is 2.01.C.1.is McNichols Aura #8150

59. See notes and question below:

    Horizontal Cabling

    a. Provide Cat 6A UTP, min-compliant, 4-Pair 100Ω Balanced Twisted Pair Cable to all locations shown on plans with the following minimum quantities by space, regardless of what is shown on plans:

    i. Offices; 4 cables each
    ii. Workstations; 3 cables each
    iii. Conference Rooms; 4 cables each
    iv. Reception; 4 cables
    v. Copy Rooms; 4 cables each

vi. Furniture Feeds; 2 cables each

There are many instances on the drawings where this is not followed. For instance, the workstations in the classrooms are shown with 2-cables each, but this paragraph states all workstations need a minimum of three cables.
Are we to quote what is shown on the drawings, or add cables based on this note?

60. See questions below:

Article 2.01.A.1 calls out the Concord Industries Monarch model flagpole as the basis of design. The halyard type on the Monarch is an internal cam cleat.

Article 2.04.E calls for (a) Dome Down Lighting option. The Light Fixture Schedule is calling for a fixture that delivers 2000 lumens and a color temperature of 4000 Kelvin. I don't see any beacon compatible with an internal cam cleat halyard that meets those requirements. Is there a basis of design / make & model for the beacon please?

Article 2.04.B calls for a double truck. It's my understanding that double trucks are not available on internal cam cleat halyards. Is a single revolving truck acceptable?

61. See questions below:

Solid surface window sills
Page A645 Elevation D1 and E2, Page A646 A6 and B3 detail the solid surface window sillsPage A641 Window type S17 and S24 reference A6/A646 and those are the only 2 window types that show solid surface sills.

The only sill designations that I found on the floor plans are S24 in the East classrooms on page A101b
The interior Elevation A400 pages show many other window elevations with 06.61A designation but they are marked with window types that do not show sills.
Also, many of the exterior windows on the floor plan pages have no window designation.

NWL RESPONSE (20250408): Elevations S16, S17, S24, S23, S21, S2, S9, C13, and S10 all have callouts indicating details with window sills. See sheet A641
Details E2/ A64, D1/ A645, D6/ A645, A6/ A646, B3/ A646, and D1/ A646 show window sills. See sheet A645 and A646. All reference plans have been updated with the missing window and storefront tags. See reference floor plan sheets. All interior elevation sheets with windows/ storefronts that have a sill have now been tagged with the proper keynotes. Tags that were missing were added to interior sheets A405, A411, A412, and A420

62. There is a detail for a heat exchanger, but can't seem to locate on the plans. Please clarify.

63. In reference to CF1 ceilings. Where the panels aren't a true 8" long, is the intent to have a gap in between rows of panels? Also, the spec is calling out for 12" spacing but the plan is showing 10". Please clarify.

    NWL RESPONSE (20250408): A gap between panels is acceptable, they do not need to directly abut to one another. 12" is spacing is acceptable if Armstrong or Onnit System cannot provide the desired 10". The intended design is for the baffles to attach to a ceiling grid system

64. Will you please provide an elevation for door type WD02? Is there a spec for the STC rated door?

    NWL RESPONSE (20250408): Door type WG01 has been updated to WD02.

CONSTRUCTION SUBMITTAL FORM

Mt. Peak Roofing

135 South 700 West
Logan, Utah 84321
435-787-4174

office@mtpeakroofing.com

PROJECT NAME	DATE OF SUBMISSION
CCSD Hyde Park Elementary	4/3/25
PROJECT MANAGER	**TRANSMITTAL NUMBER**
DWA	Pre Bid

TRANSMITTED TO: (NAME/ADDRESS)	Nate Hansen (DWANATE.H@dwaconstruct.com)

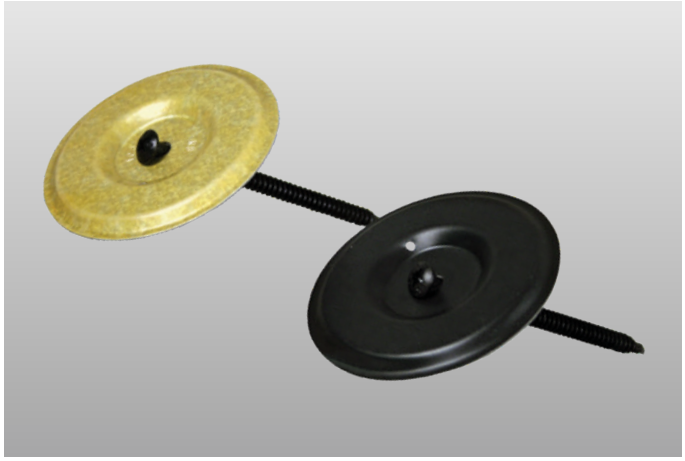
SUBJECT OF SUBMITTAL	NOTES
RhinoBond	Alternate attachment system for PVC

We are currently working with Versico to determine the best and most cost effective method to meet warranty requirements for this project. We request that RhinoBond attachment system be accepted as an option for the roof system along with the specified mechanically fastened system. See attached data sheets below, and if you have any questions please feel free to reach out.

ACCEPTABLE 04/08/2025

D.GARRIDO, NWLA

HPVX Fasteners and RhinoBond® Plates



Overview

Versico HPVX Fasteners are used with Versico's TPO or PVC RhinoBond Fastening Plates to secure VersiWeld® TPO and VersiFlex™ PVC roofing membranes. The HPVX Fastener may be used on 20-gauge (0.91 mm) or 22-gauge (0.76 mm) steel or wood decks (minimum 15⁄32" [12 mm] CDX plywood). The HPVX Fastener is designed to offer an optimum combination of driving performance, back-out and corrosion resistance with excellent pullout values. The RhinoBond TPO or PVC Fastening Plate is designed to attach the roofing membrane from the underside using the RhinoBond induction-welding tool.

Features and Benefits

- Reduces the number of fasteners and plates compared with conventional mechanically attached applications
- No perimeter sheets required
- Faster dry-in time
- Non-penetrating system
- Even load distribution across membrane

Installation

No pre-drilling is necessary for wood and steel decks. Simply insert the HPVX Fastener through the Versico RhinoBond plate and install with a standard clutch drive electric screw gun (0-2500 rpm). Optimum fastener performance is achieved when the fastener is installed perpendicular to the deck and into the top flutes of a steel deck. Follow RhinoBond System installation instructions to attach the membrane to the installed plate using the RhinoBond portable induction tool. Keep insulation substrate and membrane clean. Any debris on top of the insulation substrate and/or membrane should be removed prior to initiating the induction welding process. Use a leaf blower or broom to eliminate any debris from the membrane surface.

Keep magnets clean. If a metal shard or other debris from the roof sticks to the magnet, it can cause damage to the membrane surface in the weld area. Periodically ensure there are no contaminants on the bottom side of the magnet.

REVIEW CURRENT VERSICO SPECIFICATIONS AND DETAILS FOR SPECIFIC INSTALLATION REQUIREMENTS.

Precautions

- Eye protection is recommended during installation.
- Use care to avoid over-torquing the fastener.
- Do not expose plates to UV for extended periods.

VERSICO
ROOFING SYSTEMS

HPVX Fasteners and RhinoBond Plates

Typical Properties and Characteristics

Fasteners			
Size – Inches (mm)	**Weight/Carton – (Kg)**	**Thread Length – Inches (mm)**	**Packaging – Fasteners/Carton**
2 (50)	20 lbs (9.1)	Full	1,000
3 (80)	29 lbs (13.1)	3 (75)	1,000
4 (110)	38 lbs (17.2)	4 (100)	1,000
5 (130)	47 lbs (21.3)	4 (100)	500
6 (150)	56 lbs (25.4)	4 (100)	500
7 (175)	33 lbs (15.0)	4 (100)	500
8 (200)	38 lbs (17.2)	4 (100)	500
10 (250)	46 lbs (20.9)	4 (100)	500
12 (300)	55 lbs (24.9)	4 (100)	500
14 (355)	65 lbs (29.5)	4 (100)	500
Plates			
3 ⅛ (80)	36 lbs (16.0)	–	500

	Steel Deck 22 Gauge or 20 Gauge	**Wood Deck Min. 15⁄32"**
Typical Pull-out Value	710 lbf (3158 N) 22 gauge	375 lbf (1668 N)
Minimum Penetration	¾ (19 mm)	1" (25 mm)
Maximum Penetration	4" (100 mm)	4" (100 mm)
Typical Static Back-out	15.1 in lbs (1.7 N-m)	N/A
Typical Drill Times	1.5 seconds (20 gauge)	N/A

Typical properties and characteristics are based on samples tested and are not guaranteed for all samples of this product. This data and information is intended as a guide and does not reflect the specification range for any particular property of this product.

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VE-2786 - "HPVX Fasteners/RhinoBond Plates Technical Data Bulletin" - 05.17.21

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RhinoBond is a registered trademark of OMG, Inc. and is patent protected.

RHINOBOND®

Induction Fastening System

RhinoBond Induction Fastening System

RhinoBond is an alternative attachment system for VersiWeld® TPO, VersiFlex™ PVC and VersiFlex KEE HP membranes. This all-in-one system uses the same fastener and plate to secure the membrane and the insulation to the deck without penetrating the roofing membrane. The result is a Factory Mutual-approved system that does not create any point of entry for moisture, requires fewer fasteners and provides superior wind uplift performance when compared to standard mechanically attached TPO or PVC systems.

Induction Welding Tool

The RhinoBond tool is lightweight, with an adjustable and easy-to-use handle. It operates on standard 110-volt power sources and typically draws 1,300 watts. A 5,000-watt generator in good condition with two 20A GFCI protected circuits will run two tools. A RhinoBond hand welder is also available for use in tight spaces and on walls.

How It Works

1. RhinoBond plates are positioned in a grid-type or in-line pattern on the substrate and secured with mechanical fasteners to the deck.
2. Versico's roofing membrane is laid into position and the seams are hot-air welded. No fasteners in the seams are required.
3. The RhinoBond induction welding tool is placed on the membrane surface directly above each of the RhinoBond plates. The tool activates the special coating, resulting in a bond between the plates and the membrane.
4. The weighted magnets are then placed over the plates to dissipate heat and ensure intimate contact between the bottom surface of the membrane and the hot-melt adhesive.

Features and Benefits

- Reduces fasteners, plates and labor
- No perimeter sheets required
- Faster dry-in time
- Non-penetrating system
- Symmetrical wind load distribution

VERSICO
ROOFING SYSTEMS

RHINOBOND

Induction Fastening System

Fasteners and Plates

The RhinoBond system includes 3-inch round specially coated plates, sold in pails of 500. RhinoBond plates meet FM 4470 criteria for corrosion resistance and can be installed with a variety of Versico fasteners.

Improved Productivity

By eliminating mechanical fastening in the seam, Versico's RhinoBond system decreases the number of screws and plates required for some assemblies by as much as 50%. This reduction results in minimized labor and material costs.

Spacing the RhinoBond plates in a grid-type pattern more evenly distributes the wind load and allows the use of full-width sheets across the entire roof area, eliminating the need for narrow perimeter sheets and reducing the number of seam welds.

The RhinoBond system results in faster dry-in and allows the roofing contractor to tackle more square feet each day without the added concern of disrupting activities inside the building due to potential inclement weather.

Improved Performance

The evenly distributed securement provided by the RhinoBond system reduces wind flutter and noise as well as membrane fatigue compared to traditional mechanically attached assemblies. The plates are adhered to the underside of the membrane, creating a non-penetrating assembly.

The induction technology that the patented RhinoBond tool utilizes has been in use since the 1990's and performs well under various weather conditions. The tool is effective even when the membrane is wet.

Ideal For Metal Retrofit Applications

The Versico RhinoBond system is a great solution for metal retrofit applications. Unlike traditional assemblies, RhinoBond plates and fasteners are not required to be located in the seam area, eliminating the need for purlin-width sheets. This not only improves productivity but also reduces waste and increases profitability.

VERSICO
ROOFING SYSTEMS

A SINGLE SOURCE FOR SINGLE-PLY ROOFING

Versico, PO Box 1289, Carlisle, PA 17013
Tel: **800.992.7663** Fax: 717.960.4036 Web: **www.versico.com**

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Johns Manville
A Berkshire Hathaway Company

717 17th Street (80202)
P.O. Box 5108
Denver, CO 80217-5108
303 978 2000
www.jm.com

April 4, 2025

Re: CCSD Hyde Park Elementary School

To Whom It May Concern,

Johns Manville (a Berkshire Hathaway Company) has been a building products solution provider for 167 years and we take pride in the systems and products that we offer to the market. Our pursuit of new solutions has led to many innovations, and we now offer the industry's most complete portfolio of commercial insulation solutions available from one manufacturer.

When it comes to selecting the best overall rigid foam insulation for walls, foil-faced polyiso is the product of choice and outperforms extruded polystyrene (XPS) in a variety of categories including R-value and fire test performance.

Polyisocyanurate Foam-Plastic Board
Johns Manville AP Foil25 Polyiso Continuous Insulation features a 25-psi compressive strength board with a closed-cell polyisocyanurate foam core bonded to foil facers on both sides. This design provides exceptional thermal efficiency while acting as a water-resistive, vapor, and air barrier all in one. Perfect for both residential and commercial applications, AP Foil25 ensures superior energy efficiency and durability.

Proposed product: JM AP Foil25 Polyisocyanurate Continuous Insulation In lieu of Extruded Polystyrene

Johns Manville Specifier Services
Our team is available to consult on materials and standards for every type of insulation application.
Please consider adding Johns Manville to your firm master specifications for the insulation types indicated above to achieve the most competitive options for your owners.

Jesus Perez Orozco, CDT
Architecture and Design Specification Representative
Johns Manville | A Berkshire Hathaway Company
717 17th Street, Denver, CO 80202
M: 720.846.0591
Email: **jesus.perezorozco@jm.com**

CSI Form 13.1A

SUBSTITUTION REQUEST FOR CAUSE

Project: CCSD Hyde Park Elementary School

Substitution Request Number: 1

From: Johns Manville

To: Naylor Wentworth Lund Architects

Date: April 4, 2025

A/E Project Number:

Re: Comparable Product Request

Contract For: Insulation

Specification Title: 07 21 00 THERMAL INSULATION

Description: Extruded Polystyrene (XPS) Continuous Insulation

Section: 07 21 00 Page: 3

Article/Paragraph: 2.02

Proposed Substitution: JM AP Foil25 Polyisocyanurate Continuous Insulation

Manufacturer: Johns Manville Address: 717 17th St. Denver, CO 80202 Phone: 720-846-0591

Trade Name: Foam Board Insulation Materials Model No.: AP Foil25

Installer: Address: Phone:

History: ☑ New product ☐ 1-4 years old ☐ 5-10 years old ☐ More than 10 years old

Differences between proposed substitution and specified product:

AP Foil25 is a uniform closed-cell polyisocyanurate foam product bonded on each side with a foil facer..

☑ Point-by-point comparative data attached — REQUIRED BY A/E

Reason for not providing specified item: Comparable quality product. Superior Thermal and Fire performance.

Similar Installation:

Project: Architect:

Address: Owner:

Date Installed:

Proposed substitution affects other parts of Work: ☑ No ☐ Yes; explain

Savings to Owner for accepting substitution: N/A ($).

Proposed substitution changes Contract Time: ☑ No ☐ Yes [Add] [Deduct] days.

Supporting Data Attached: ☐ Drawings ☑ Product Data ☐ Samples ☐ Tests ☐ Reports ☐

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110 South Union Street, Stuie 100, Alexandria, VA 22314

This is not an official CSI Construction Contract Administration (CCA) Form. Please use CSI's official CCA Forms if required by your project needs.

SUBSTITUTION
REQUEST FOR CAUSE
(Continued)

The Undersigned certifies:

- Proposed substitution has been fully investigated and determined to be equal or superior in all respects to specified product.
- Same warranty will be furnished for proposed substitution as for specified product.
- Same maintenance service and source of replacement parts, as applicable, is available.
- Proposed substitution will have no adverse effect on other trades and will not affect or delay progress schedule.
- Cost data as stated above is complete. Claims for additional costs related to accepted substitution which may subsequently become apparent are to be waived.
- Proposed substitution does not affect dimensions and functional clearances.
- Payment will be made for changes to building design, including A/E design, detailing, and construction costs caused by the substitution.
- Coordination, installation, and changes in the Work as necessary for accepted substitution will be complete in all respects.

Submitted by: Jesus Perez Orozco

Signed by: Jesus Perez Orozco

Firm: Johns Manville

Address: 717 17th Street,
Denver, CO 80202

Telephone: 720-846-0591

Attachments: ☑

A/E's REVIEW AND ACTION

☐ Substitution approved - Make submittals in accordance with Specification Section 01 25 00 Substitution Procedures.
☐ Substitution approved as noted - Make submittals in accordance with Specification Section 01 25 00 Substitution Procedures.
☐ Substitution rejected - Use specified materials.
☐ Substitution Request received too late - Use specified materials.

Signed by: _____ Date: _____

Additional Comments: ☐ Contractor ☐ Subcontractor ☐ Supplier ☐ Manufacturer ☐ A/E
☐ Other:

Alternate accepted

D.GARRIDO, NWLA 04/08/2025

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Johns Manville
A Berkshire Hathaway Company

AP™ Foil25

POLYISOCYANURATE CONTINUOUS INSULATION

DESCRIPTION

Johns Manville AP™ Foil25 Polyiso Continuous Insulation is a 25-psi compressive strength board which consists of a uniform closed-cell polyisocyanurate foam core bonded on each side to a foil facer. AP Foil25 can be used in the same applications as our standard AP Foil product but is especially well suited for below-grade residential applications, as well as commercial applications where higher compressive strength boards are preferred for certain exterior cladding systems. One side has a reflective foil facer, and the other side has a white non-reflective foil facer to suit your building needs. Polyiso provides one of the highest R-values per inch of any rigid insulation (R-6.0 at 1 inch). Furthermore, when properly installed, AP™ Foil25 Polyiso Continuous Insulation functions as a water-resistive barrier, vapor barrier and air barrier, eliminating the need to install additional components.

AP Foil25 Polyiso Continuous Insulation is produced with an EPA-compliant hydrocarbon-based blowing agent that has zero Ozone Depletion Potential (ODP) and virtually no Global Warming Potential (GWP); it also meets both CFC- and HCFC-free specification requirements. Polyiso is one of North America's most widely used insulation products and has been cited by the EPA for its responsible impact on the environment. AP Foil25 Polyiso Continuous Insulation provides exceptional heat, moisture and air control to protect your building's exterior wall assembly.

INSTALLATION

AP Foil25 Polyiso Continuous Insulation is lightweight and can be easily cut with a utility knife or saw. Use maximum board lengths to minimize the number of joints. Vertical joints should be staggered. Butt joints should be centered over framing. To create a water-resistive barrier or an air barrier, treat seams and penetrations as instructed in the installation guide and in accordance with manufacturer's guidelines. Once installed, AP Foil25 Polyiso Continuous Insulation may be left exposed for up to 60 days. Consult your local building department for code requirements.

COMPLIANCES

- ASTM C1289 Type 1, Class 1 or 2
- CCRR-0444
- Air Barrier Association of America Evaluated Air Barrier Material, Assembly & Water Resistive Barrier
- International Building Code
- International Residential Code
- International Energy Conservation Code
- ENERGY STAR
- ASHRAE 90.1
- California State Insulation Quality Standards
- California Proposition 65

PERFORMANCE STANDARDS

- ASTM C1289, Standard Specification for Faced Rigid Cellular Polyisocyanurate Thermal Insulation Board
- ASTM E84, Test for Surface Burning Characteristics of Building Materials – Class A
- NFPA 259, Standard Test Method for Potential Heat of Building Materials
- NFPA 285, Standard Fire Test Method for Evaluation of Fire Propagation Characteristics of Exterior Non-Load-Bearing Wall Assemblies Containing Combustible Components
- AC 71, Acceptance Criteria for Foam Plastic Sheathing Panels Used as Water-Resistive Barriers
- ASTM E331, Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform Static Air Pressure Difference
- AATCC Test Method 127, Water Resistance: Hydro Static Pressure Test
- ASTM E1233, Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights, and Curtain Walls by Cyclic Air Pressure Differential
- ASTM E2178, Standard Test Method for Air Permeance of Building Materials
- ASTM E2357, Standard Test Method for Determining Air Leakage of Air Barrier Assemblies

AVAILABILITY

AP Foil25 Polyiso Continuous Insulation is available in the sizes shown in Table 1 (see reverse). For additional information or special size inquiries, please consult a sales representative at 800-654-3103.

COMPANY

Johns Manville, a Berkshire Hathaway company, was founded in 1858. Our ownership by Berkshire Hathaway, one of the most admired companies in the world and one of the most financially secure, allows JM to invest for the future. This enables JM to continue delivering the broadest range of insulation products in the industry and offering innovative solutions that meet your needs.

PERFORMANCE ADVANTAGES

Thermal Insulation: Inch for inch, polyiso has one of the highest energy efficiencies. R-values for AP Foil25 Polyiso Continuous Insulation are shown in Table 1, and physical properties are shown in Table 2 (see reverse). R means resistance to heat flow. The higher the R-value, the greater the insulating power.

Water-Resistive Barrier: When properly installed as part of a Johns Manville Wall System, AP Foil25 Polyiso Continuous Insulation meets the ICC-ES AC71 acceptance criteria for foam plastic sheathing used as a water-resistive barrier. Please see the installation guide for qualifying assemblies and detailed instructions.

Vapor Barrier: At a minimum thickness of 1.65", AP Foil25 Polyiso Continuous Insulation has a vapor permeance of 0.05 perms and qualifies as a Class I vapor retarder.

Air Barrier: When properly installed as part of a Johns Manville Wall System, AP Foil25 Polyiso Continuous Insulation meets the Air Barrier Association of America boardstock criteria for materials and assemblies. Please see the installation guide for qualifying assemblies and detailed instructions.

Noncorrosive: Does not accelerate corrosion of pipes, wiring or metal studs.

Lightweight: Easy to handle, can be cut with a utility knife or saw.

ENERGY, QUALITY & ENVIRONMENT

Intertek

POLYISO™ The top performer.

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CLASSIFIED UL

abaa EVALUATED

STORAGE

Store AP Foil25 Polyiso Continuous Insulation elevated above the floor or ground and standing water. If stored outdoors, keep dry by covering completely with a waterproof tarpaulin.

LIMITATIONS

AP Foil25 Polyiso Continuous Insulation is nonstructural. The walls must be braced in accordance with the requirements of the applicable code.

WARRANTY

All Johns Manville products are sold subject to Johns Manville's Limited Warranty and Limitation of Remedy. For a copy of these documents, call 800-654-3103.

WARNING

AP Foil25 Polyiso Continuous Insulation is combustible and shall only be used as specified by the local building code with respect to flame spread classification and to the use of a suitable thermal barrier when required.

TECHNICAL SERVICES

Johns Manville can provide technical information to assist in addressing questions regarding AP Foil25 Polyiso Continuous Insulation. Please call 800-654-3103 for technical assistance.

PERFORMANCE DATA

Table 1: Thermal Performance

THICKNESS (in)	R-VALUE U.S.[1] (°F•ft²•h/BTU)	THICKNESS (mm)	RSI-VALUE[1] (°K•m²/W)	BOARD SIZE (ft)	R-VALUE WITH REFLECTIVE AIR SPACE[2]		
					½" Air Space	¾" Air Space	1" Air Space
1.65	10	42	1.82	4 x 8, 9, or 10	13	13	13
2.00	13	51	2.21	4 x 8, 9, or 10	15	15	15
2.50	16	64	2.79	4 x 8, 9, or 10	18	19	19
3.00	19	76	3.36	4 x 8, 9, or 10	22	22	22

[1] Aged R-value at 75° F in accordance with ASTM C1289.
[2] Only applies when an ideal reflective air space and horizontal heat flow conditions exist. The shiny foil side of product must face the air space. Determined in accordance with FTC 16 CFR Part 460 requirements and published ASHRAE air space R-values. Refer to the 2009 ASHRAE Handbook of Fundamentals, Chapter 25, Table 3, for details.

Table 2: Physical Properties

PROPERTY	UNITS	TEST METHOD	RESULT
Thermal Resistance, 1 inch	°F•ft²•hr/BTU	ASTM C518[1]	6.0
Compressive Strength	psi	ASTM D1621	≥ 25
Flexural Strength	psi	ASTM C203	≥ 40
Water Absorption	% by volume	ASTM C209	0.1
Water Vapor Permeance	perms	ASTM E96	0.05
Air Barrier	L/(s•m²)	ASTM E2178	< 0.02
Mold Resistance	rating	ASTM D3273	10, no defacement
Sound Transmission Class for R-5 to R-13	STC	ASTM E90	34-55[2]
Surface Burning Characteristics[3]			
Flame Spread[4]	index	ASTM E84	≤ 25
Smoke Developed[4]	index	ASTM E84	≤ 450
Service Temperature	°F		-100 to 250

[1] Aged R-value at 75° F in accordance with ASTM 1289 (90 days @ 140°F).
[2] Residential exterior wall with ½" interior gypsum, 2"x4" studs at 16" o.c., R-13 fiberglass batts in cavity, 7/16" OSB sheathing and AP Foil25 continuous insulation. Exact performance depends on AP Foil thickness, cladding type, and inclusion of resilient channels (optional) in the assembly.
[3] Numerical flame spread and smoke developed ratings are not intended to reflect hazards present in actual fire conditions.
[4] Foam core tested at 4-inches.

Technical specifications as shown in this literature are intended to be used as general guidelines only. Please refer to the Safety Data Sheet and product label prior to using this product. The physical and chemical properties of AP Foil-Faced Polyisocyanurate Continuous Insulation listed herein represent typical, average values obtained in accordance with accepted test methods and are subject to normal manufacturing variations. They are supplied as a technical service and are subject to change without notice. Any references to numerical flame spread or smoke developed ratings are not intended to reflect hazards presented by these or any other materials under actual fire conditions. Check with the sales office nearest you for current information. **All Johns Manville products are sold subject to Johns Manville's standard Terms and Conditions, which includes a Limited Warranty and Limitation of Remedy. For a copy of the Johns Manville standard Terms and Conditions or for information on other Johns Manville insulation and systems, visit www.jm.com/terms-conditions or call 800-654-3103.**

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TABLE 4 – NFPA 285 COMPLYING WALL ASSEMBLIES

Base wall system – Use either 1, 2, 3, or 4 Do not use Item 4 with Exterior Veneer System 11	1. Concrete wall 2. Concrete Masonry wall 3. 1 layer of 5/8-inch-thick Type X gypsum wallboard installed on the interior side of minimum 3-5/8-inch-deep minimum 20-gauge-thick steel studs spaced a maximum of 24 inches on-center. Lateral bracing installed minimum every 4 ft. vertically or as required. Minimum 4 pcf mineral wool shall be friction fit between steel wall studs at each floorline. Height of mineral wool insulation shall be the same as the floor slab thickness. 4. For walls that are not required to be fire-resistance rated, 1 layer of 5/8-inch-thick Type X gypsum wallboard installed on the interior side of minimum 2x4 fire-retardant-treated wood studs spaced a maximum of 24-inches on center. Lateral bracing installed as required. Minimum 4 pcf mineral wool friction fit between wood wall studs at each floorline. Height of mineral wool insulation shall be the same as the floor slab thickness.
Perimeter Fire Barrier System	Perimeter fire barrier system complying with Section 715.4 of the 2021 IBC shall be installed, as applicable, to fill the void between the edge of the building floor slab and the interior surface of the exterior wall assembly (see Notes 1 and 2).
Stud Cavity Insulation – Use either 1, 2, 3, 4, 5, or 6 Do not use Item 6 with Exterior Veneer System 11	1. None (for Base Wall Systems 1 and 2 only) 2. Fiberglass batt insulation (faced or unfaced) 3. Fiberglass spray-in insulation 4. Mineral wool insulation (faced or unfaced) 5. Sprayed cellulosic insulation complying with Section 720 of the IBC and ASTM C739 6. Hybrid Systems: spray foam and/or fiberglass insulation or mineral wool insulation (flash and batt insulation systems). An Engineering Judgment must be provided to demonstrate the spray foam has been certified for the intended use in accordance with NFPA 285 at the density and thickness intended for use.
Exterior Sheathing – Use either 1, 2, 3, 4, or 5	1. None for Base Wall system 1 or 2 2. None for Base Wall system 3 when using 4-4.5 in. AP Foil or CI Foam Sheathing and Exterior Veneer systems 1, 2, 3, 4 or 5. 3. Minimum 1/2-inch-thick, exterior type gypsum sheathing complying with the applicable Code (For Base Wall system 3 and Exterior Veneer systems 1 through 5). 4. 5/8-inch-thick Type X exterior type gypsum sheathing (for Base Wall systems 3 and 4 and Exterior Veneer systems 1 through 10). 5. 5/8-inch-thick exterior gypsum sheathing complying with ASTM C1396 or ASTM C1177 (for Base Wall systems 1, 2, and 3, and Stud Cavity Insulations 1, 2, 3, 4 and 5)
Water-Resistive Barrier (WRB) Material – Use either 1 or 2	1. None when AP™ Foil Faced Foam Sheathing insulation is installed per Section 5.2.2 of this report. CI Max® Foam Sheathing insulation requires a separate WRB material 2. Any water-resistive barrier complying with IBC Section 1403.2 or IRC Section 703.2 and shown to have both of the following: (a) a peak heat release rate of less than 150 W/m^2, a total heat release of less than 20 MJ/m^2, and an effective heat of combustion of less than 18 MJ/kg when tested on specimens at the thickness intended for use, in accordance with ASTM E1354, in the horizontal orientation, and at an incident radiant heat flux of 50 kW/m^2 (b) a flame spread index of 25 or less and a smoke-developed index of 450 or less when tested in accordance with ASTM E84 or UL 723, with test specimen preparation in accordance with ASTM E2404

Exterior Insulation	Maximum 3-1/2-inch thickness of AP™ Foil Faced Foam Sheathing polyisocyanurate insulation or CI Max® Foam Sheathing. Thickness may be increased to 4-1/2 inches when using Exterior Veneer System 1, 2, 3, 4, or 5
Exterior Veneer System – Use either 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, or 11 ACMs may only be used with Base Walls 1, 2 or 3, and Stud Cavity Insulations 1, 2, 3, 4 or 5	1. Brick – Standard nominal 4-inch-thick, clay brick with standard brick veneer anchors installed a maximum of 24 inches on-center vertically on each stud. A maximum 2-inch air gap between exterior insulation and brick. 2. Stucco – Minimum 3/4-inch-thick, exterior cement plaster and metal lath. A secondary water-resistive barrier can be installed between the exterior insulation and the lath. The secondary water-resistive barrier shall not be full-coverage asphalt or butyl-based self-adhered membranes. As an alternative, one-coat stucco (min. 3/8-inch-thick) recognized in a current research report for compliance with NFPA 285; foam plastic noted for Exterior Insulation above. 3. Stone veneer – Minimum 1-inch-thick limestone or natural stone veneer or minimum 1-1/2-inch-thick cast artificial stone veneer complying with ICC-ES AC51. Any standard installation technique may be used. 4. Porcelain, ceramic, or terracotta cladding – Use any porcelain, ceramic, or terracotta cladding system in which the cladding is minimum 1/2 inch thick. 5. Precast Concrete Panels or Concrete Masonry Unit (CMU) – Minimum 1-inch thick. Any standard non-open jointed installation technique may be used. 6. Autoclaved-Aerated Concrete (AAC) panels – Minimum 2-inch-thick AAC panels. 7. Thin Brick System – Minimum 3/4-inch-thick clay thin brick system fully adhered with cementitious mortar (standard or polymer modified) to minimum 1/2-inch-thick cement backer board or exterior gypsum sheathing. 8. Uninsulated Fiber Cement Board – Minimum 1/4-inch-thick fiber cement board which has been successfully tested in accordance with NFPA 285 on a wall assembly incorporating a foam plastic insulation having a similar density, thickness, and potential heat as the AP Foil insulation noted for Exterior Insulation above. 9. Stone and Aluminum Honeycomb Panels – Any composite panel which has been successfully tested in accordance with NFPA 285 on a wall assembly incorporating a foam plastic insulation having a similar density, thickness, and potential heat as the AP Foil insulation noted for Exterior Insulation above. 10. Solid Metal Panels – Minimum 3 mm thick steel, aluminum, or copper. Zinc shall not be used. 11. Any Aluminum Composite Metal (ACM) panel that has successfully passed NFPA 285 with foam plastic insulation having similar density, thickness, and potential heat as the AP Foil insulation noted for Exterior Insulation above. Except where otherwise noted, any standard non-open jointed installation technique can be used for Systems 1 through 11.
Opening Header, Sill, Jambs Protection	18-gauge, 4-inch-deep continuous "U" bar covering the edge of the foam plastic insulation. Minimum 26-gauge sheet metal flashing drip edge attached to "U" bar via rivets 8 inches on-center (Figures 1, 2, and 3)
Flashing of window, door and other exterior wall penetrations	As an option, flash around window, door, and other exterior penetrations with limited amounts of maximum 12-inch-wide flashing tape (acrylic, asphalt or butyl-based) or liquid-applied membrane material with or without fiber mesh reinforcement.

Note 1: Building Code section references may change in different editions of the IBC.
Note 2: Fireblocking per Section 718 of the 2021 IBC and thermal barrier material requirements must be met for Base Wall Systems 1 and 2, as required by specific wall construction details when combustible concealed space is created on interior side of exterior wall assembly.

PIMA PERFORMANCE BULLETIN

Foil-Faced Polyiso and XPS in Wall Applications

When it comes to selecting the best overall rigid foam insulation for walls, foil-faced Polyiso is the product of choice and outperforms extruded polystyrene (XPS) in a variety of categories:

	POLYISO	XPS
Aged R-value	★ 1 inch of foil-faced Polyiso has a minimum R-value of 6.0. 4.5 inches of foil-faced Polyiso has an R-value of up to 6.9 per inch.	Standard XPS has an R-value of 5.0 per inch, regardless of thickness
Fire Test Performance: • ASTM E84 • NFPA 285 • NFPA 286/UL 1715	★ In all 3 fire tests, polyiso performs exceptionally well and does not melt.	XPS softens at 165°F and melts between 200°F to 210°F which can potentially spread flammable material.
Water Resistance	★ Classified as water resistant	★ Classified as water resistant
Vapor Resistance	★ The low permeability of foil-faced Polyiso coupled with its high thermal performance decreases the likelihood of condensation in walls.	Higher permeability and lower thermal performance increases the likelihood of condensation in walls.
Global Warming Potential – GWP	★ Foil-faced Polyiso is manufactured with a hydrocarbon-based blowing agent that has zero Ozone Depletion Potential (ODP) and virtually no Global Warming Potential (GWP)	XPS is manufactured with hydrofluorocarbon blowing agents, which have a Global Warming Potential (GWP) of 1300. This is 100 times greater than the blowing agent used in Polyiso.
Compatibility	★ Not affected when exposed to petroleum-based solvents in adhesives, paints, stains, water repellent and preservative coatings, and in bituminous waterproofing	Can dissolve when exposed to petroleum-based solvents in adhesives, paints, stains, water repellent and preservative coatings, and in bituminous waterproofing

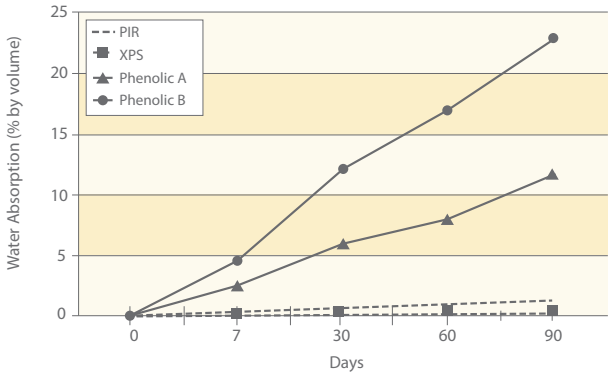
R-Value

Polyiso is unique in that the R-value increases with the thickness of the foam, so three inches of foil-faced Polyiso has a higher R-value per inch than two inches. The R-value of foiled-faced Polyiso insulation is between 20 to 38 percent higher per inch of thickness than the R-value of XPS.

Fire Performance[1]

Polyiso insulation products are thermoset, which means that once manufactured, they are rigid, will not soften or melt and will remain stable, even at elevated temperatures. During fire tests polyiso forms a protective char layer and does not melt. XPS is a thermoplastic material which softens at 165°F and melts in the 200°F to 210°F range.

- **ASTM E84:** Polyiso can achieve a Class A or Class B rating. XPS can achieve a Class A rating although it melts and drips to the floor of the tunnel where it can continue to burn and spread the fire, a fact that is not currently accounted for in the results of the test.
- **NFPA 285:** Foil-faced Polyiso is approved in more NFPA 285 assemblies than XPS. XPS softens and melts potentially adding fuel to the fire and requires fire stopping around the window and door header to pass NFPA 285. Foil-faced Polyiso passes NFPA 285 without additional fire stopping materials and is approved for more cladding options than XPS.
- **NFPA 286/UL 1715:** Polyiso stays in place during this testing while XPS drips down to the floor potentially spreading flammable material. Many polyiso manufacturers have foil-faced products which have passed NFPA 286/UL 1715.



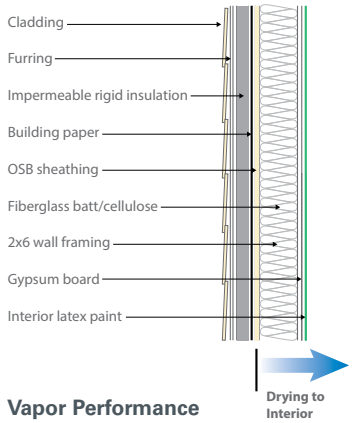
Water Absorption Results, 90 day soak, ASTM C209-07 *(extended)*

Water Performance:

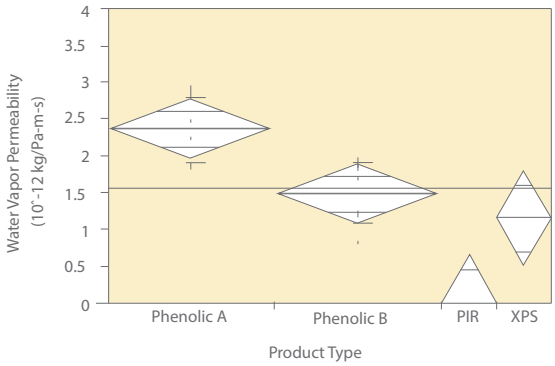
Water can get into all types of buildings so it is critical to select a building insulation that is resistant to water absorption. In wall applications, foil-faced Polyiso (PIR in the illustration on the left) and XPS perform equally well. The graph, taken from a paper titled "Rigid Polymeric Foam Boardstock Technical Assessment," published by the Dow Chemical Company, shows that both Polyiso and XPS perform well in a 90 day soak test.[2]

Vapor Performance and Moisture Condensation

It is critical to prevent condensation. Water vapor enters walls through permeable materials and penetrations. Water vapor condenses when the temperature is lowered below the dew point. Controlling water vapor transmission and temperature within the wall assembly is the best practice to reduce the potential for condensation. The low permeability of foil-faced Polyiso coupled with the high thermal performance make it ideal for controlling condensation. The Vapor Performance graphic below, taken from a paper titled "Insight Macbeth Does Vapor Barriers" by Joseph W. Lstiburek, illustrates rigid insulation functioning as a vapor barrier on the exterior. Dr. Lstiburek includes the wall on his short list of "best performing walls" and states that "it is hard to beat the performance."[3] The Water Vapor Permeability ASTM E96 graphic, taken from a paper titled "Rigid Polymeric Foam Boardstock Technical Assessment," published by the Dow Chemical Company, shows that Polyiso (PIR in the illustration) outperforms XPS and has virtually no water vapor transmission.[4] Better vapor performance and higher R-value make foil-faced Polyiso the clear material of choice for preventing condensation in walls.



Vapor Performance



Water Vapor Permeability ASTM E96

Low Global Warming Potential

XPS is made with hydrofluorocarbon blowing agents (HFCs), which have a Global Warming Potential (GWP) of 1300. This is 100 times greater than the blowing agent used in Polyiso. All Polyiso insulation manufactured by PIMA members utilizes an EPA compliant hydrocarbon-based blowing agent which has zero Ozone Depletion Potential (ODP) and virtually no GWP; it also meets HFC-, CFC- and HCFC-free specification requirements.

Compatibility with Construction Materials

It has been shown that the application of common construction materials — such as petroleum-based solvents in adhesives, paints, stains, water repellent and preservative coatings, and in bituminous waterproofing — can cause extruded polystyrene to dissolve. This problem can be solved by using foil-faced Polyiso which is not affected by these materials and therefore offers a level of comfort that the insulation value will remain in place year after year.

PIMA
POLYISOCYANURATE INSULATION MANUFACTURERS ASSOCIATION

Remember, when it comes to selecting the best overall rigid foam insulation for walls, foli-faced Polyiso is the product of choice and outperforms XPS.

Foil-faced Polyiso:

- Has the highest R-value per inch
- Offers superior performance in fire tests (NFPA 285, NFPA 286/UL1715, ASTM E84)
- Provides water resistance
- Provides superior vapor performance
- Has low global warming potential
- Is compatible with construction materials

Notes:

[1] For more detailed information about how well polyiso performs during fire tests please refer to these technical bulletins found at polyiso.org, "PIMA Technical Bulletin #103: Fire Performance in Walls and Ceilings" and "PIMA Technical Bulletin #405: Fire Resistance Properties of Polyiso Foam Plastic Insulation Used in Wall Assemblies – Facts and Comparisons

[2] Schroer, D., Hudack, M., Soderquist, M., and Beulich, I. Rigid Polymeric Foam Boardstock Technical Assessment, p.4

[3] Lstiburek, J.W., "Macbeth Does Vapor Barriers (Double, Double Toil and Trouble)", Building Science Insights, November 15, 2013

[4] Schroer, D. Rigid Polymeric Foam Boardstock Technical Assessment, p.4

PIMA

For over 25 years, PIMA (Polyisocyanurate Insulation Manufacturers Association) has served as the unified voice of the rigid polyiso industry proactively advocating for safe, cost-effective, sustainable and energy efficient construction.

PIMA produces technical bulletins in an effort to address frequently asked questions about polyiso insulation. PIMA's technical bulletins are published to help expand the knowledge of specifiers and contractors and to build consensus on the performance characteristics of polyiso. Individual companies should be consulted for specifics about their respective products.

PIMA's membership consists of manufacturers and marketers of polyiso insulation and suppliers to the industry. Our members account for a majority of all of the polyiso produced in North America.

SAFETY

Polyiso insulation, like wood and other organic building materials, is combustible. Therefore, it should not be exposed to an ignition source of sufficient heat and intensity (e.g., flames, fire, sparks, etc.) during transit, storage or product application. Consult the product label and/or the PIMA members' Material Safety Data Sheets (MSDS) for specific safety instructions. In the United States, follow all regulations from OSHA, NFPA and local fire authorities; in Canada, follow all regulations from Health Canada Occupational Health and Safety Act (WMHIS) and local fire authorities.

PIMA
POLYISOCYANURATE INSULATION MANUFACTURERS ASSOCIATION

529 14th Street, NW, Suite 750, Washington, DC 20045
www.polyiso.org • pima@pima.org

E. Insulation in Interior Metal Framed Walls: Acoustical batt insulation.
F. Insulation Above Lay-In Acoustical Ceilings and Ceiling Clouds: Acoustical batt insulation.
G. Insulation at Exterior Soffits: Batt insulation.

2.02 FOAM BOARD INSULATION MATERIALS

A. Extruded Polystyrene (XPS) Continuous Insulation (CI) Board: Comply with ASTM C578, and manufactured using carbon black technology.
   1. Type and Compressive Resistance: Type IV, 25 psi (173 kPa), minimum.
   2. Flame Spread Index (FSI): Class A - 0 to 25, when tested in accordance with ASTM E84.
   3. Smoke Developed Index (SDI): 450 or less, when tested in accordance with ASTM E84.
   4. Type and Thermal Resistance, R-value: Type IV, 5.6 (0.98), minimum, per 1 inch thickness at 75 degrees F mean temperature.
   5. Board Size: 48 inch by 96 inch.
   6. Board Thickness: 2-3/16 inch.
   7. Board Edges: Shiplap, at long edges.
   8. Products:
      a. DuPont de Nemours, Inc; Styrofoam Brand Ultra SL (Shiplap): building.dupont.com.
      b. Substitutions: See Section 01 6000 - Product Requirements.
B. Extruded Polystyrene (XPS) Cavity Wall Insulation Board: Complies with ASTM C578, and manufactured using carbon black technology.
   1. Flame Spread Index (FSI): Class A - 0 to 25, when tested in accordance with ASTM E84.
   2. Smoke Developed Index (SDI): 450 or less, when tested in accordance with ASTM E84.
   3. Type and Thermal Resistance, R-value: Type IV, 5.6 (0.98), minimum, per 1 inch thickness at 75 degrees F mean temperature.
   4. Board Size: 15-3/4 inch by 96 inch.
   5. Board Thickness: 2-3/16 inch.
   6. Board Edges: Square.
   7. Products:
      a. DuPont de Nemours, Inc; Styrofoam Brand Cavitymate Ultra: building.dupont.com.

2.03 BATT INSULATION MATERIALS

A. Where batt insulation is indicated, either glass fiber or mineral fiber batt insulation may be used, at Contractor's option.
B. Glass Fiber Batt Insulation: Flexible preformed batt or blanket, complying with ASTM C665; friction fit.
   1. Flame Spread Index: 25 or less, when tested in accordance with ASTM E84.
   2. Smoke Developed Index: 50 or less, when tested in accordance with ASTM E84.
   3. Formaldehyde Content: Zero.
   4. Thermal Resistance: R of 13/19.
   5. Thickness: 3 1/2 inch, 6 inch (150 mm).
   6. Manufacturers:
      a. Owens Corning Corp: www.ocbuildingspec.com
      b. CertainTeed Corporation: www.certainteed.com.
      c. Johns Manville: www.jm.com.
      d. Knauf Insulation: www.knaufinsulation.us.
      e. Substitutions: See Section 01 6000 - Product Requirements.
C. Acoustical Glass Fiber Batt Insulation: Flexible preformed batt or blanket, complying with ASTM C665; friction fit.
   1. Flame Spread Index: 10 or less, when tested in accordance with ASTM E84.
   2. Smoke Developed Index: 10 or less, when tested in accordance with ASTM E84.
   3. Formaldehyde Content: Zero.

SECTION 06 4100

ARCHITECTURAL CASEWORK

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Furnish all labor, materials, equipment, tools, and services required to fully complete all Architectural Casework work as is indicated on the drawings and/or specified herein including, but not limited to, the following described items.
B. Plastic Laminate Casework.
C. Plastic Laminate Faced Wall Panels
D. Countertops.
   1. Plastic Laminate.
E. Casework hardware.
F. Shelving, shelf standards, brackets, and accessories.
G. Workstation/Counter Support Brackets
H. Structural supports incorporated into wood casework.
I. Factory finishing.
J. Preparation for installing utilities.\
K. Steel in wall brackets
L. Do not include sales tax, refer to Section 00 1115 - Advertisement for Prequalification of Bidders.

1.02 RELATED REQUIREMENTS

A. Section 06 1000 - Rough Carpentry: Support framing, grounds, and concealed blocking.
B. Section 06 6116 - Solid Surfacing Fabrications: Countertops.

1.03 REFERENCE STANDARDS

A. ANSI A208.1 - American National Standard for Particleboard; 2016.
B. ANSI A208.2 - Medium Density Fiberboard (MDF) for Interior Applications; 2016.
C. AWI/AWMAC/WI (AWS) - Architectural Woodwork Standards, 2nd Edition; 2014, with Errata (2016).
D. AWMAC/WI (NAAWS) - North American Architectural Woodwork Standards; 2021, with Errata.
E. BHMA A156.9 - Cabinet Hardware; 2020.
F. NEMA LD 3 - High-Pressure Decorative Laminates; 2005.
G. ASTM C920 - Standard Specification for Elastomeric Joint Sealants; 2018.
H. ICC (IBC) - International Building Code; Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.

1.04 SUBMITTALS

A. See Section 01 3000 - Administrative Requirements, for submittal procedures.
B. Shop Drawings: Indicate materials, component profiles, fastening methods, jointing details, and accessories.
   1. Scale of Drawings: 1-1/2 inch to 1 foot, minimum.
   2. Provide the information required by AWI/AWMAC/WI (AWS) or AWMAC/WI (NAAWS) Section 1 - Submittals
   3. Include certification program label.
   4. Field verify all room dimensions as a part of manufacturing casework.
C. Product Data: Provide data for hardware accessories.

D. Samples: Submit actual samples of architectural cabinet construction, minimum 12 inches square, illustrating proposed cabinet, countertop, and shelf unit substrate and finish.
E. Samples: Submit actual sample items of proposed pulls, hinges, shelf standards, and locksets, demonstrating hardware design, quality, and finish.

1.05 QUALITY ASSURANCE

A. Millwork and installation shall be in accordance with Premium Grade or Custom Grade of the Architectural Woodwork Standards, latest edition. If provisions for the Grade specified are in conflict with, or modified by the drawings and/or specifications, the modifications shall govern.
B. Fabricator Qualifications: Company specializing in fabricating the products specified in this section with minimum five years of documented experience.
   1. Company with at least one project in the past 5 years with value of woodwork within 20 percent of cost of woodwork for this Project.

1.06 MOCK-UP

A. Provide mock-up of typical base cabinet, wall cabinet, countertop, and base cabinet with at least one drawer, including hardware, finishes, and plumbing accessories of each type of casework specified.
B. See Section 01 4300 - Quality Assurance for additional requirements.
C. Locate where directed.
D. Mock-up may remain as part of the Work, if undisturbed at time of substantial completion at the discretion of the Architect.

1.07 DELIVERY, STORAGE, AND HANDLING

A. Protect units from moisture damage.
B. Deliver materials only when the project is ready for installation and the general contractor has provided a clean storage area.
   1. Delivery of architectural millwork shall be made only when the area of operation is enclosed, all plaster and concrete work is dry and the area broom clean.
C. Any damage to casework during installation will be properly repaired or replaced.

1.08 FIELD CONDITIONS

A. During and after installation of custom cabinets, maintain temperature and humidity conditions in building spaces at same levels planned for occupancy.

1.09 GUARANTEE

A. The Contractor shall guarantee his work for a period of One (1) year from date of Substantial Completion. Guarantee shall be on form included in Section 01 7800.

PART 2 PRODUCTS

2.01 FABRICATORS/INSTALLERS

A. Subject to compliance with requirements, provide products and labor by one of the following:
   1. Fetzer's Architectural Woodwork, Inc, Salt Lake City, UT, (801) 484-6103.
   2. Fondell Woodwork, Inc, Lehi, UT, (801) 768-4467.
   3. Granite Mill, Inc., Salt Lake City, UT, (801) 467-3222.
   4. Huetter Mill, Murray, UT, (801) 266-3222.
   5. Advanced Cabinets LLC, Midvale, Utah (801) 251-0155
   6. Johnson Brothers Mill, Idaho Falls, ID, (208) 522-3674.
   7. Artistic Mill, Murray, UT, (801) 262-8851.

8. Mapleleaf Cabinets, Salt Lake City, UT, (801) 262-7741.
9. Cozzens Cabinets, Cedar City, Ut (435) 586-7618
10. Substitutions: See Section 01 6000 - Product Requirements.

B. Single Source Responsibility: A single millwork fabricator/installer shall provide and install the work of this Section and Section 06 2000 - Finish Carpentry.

2.02 CABINETS

A. Seismic-Compliant Construction: Comply with all requirements of Seismic Design Category D, ICC (IBC).

B. Quality Standard: Premium Grade, in accordance with AWI/AWMAC/WI (AWS) or AWMAC/WI (NAAWS), unless noted otherwise.

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1. Cabinet Color: Wilsonart High Line 7970.
2. Administrative Areas, Media Center, Counseling Areas, Faculty Areas, Other Areas as indicated: Premium Grade.
3. Classrooms, Workrooms, Storage Rooms, Breakrooms, Custodial Rooms, Utility Rooms, Other Areas as indicated: Custom Grade.
4. No Economy Grade Cabinets Accepted.

C. Plastic Laminate Faced Cabinets: Premium grade.
1. Exposed Exterior/Interior Surfaces: HDPL, Type VGS.
2. Semi-Exposed Surfaces: HDPL, Type CLS.
3. Concealed Surfaces: HDPL, Type BKL
4. Construction Type: A - Frameless.
5. Interface Style: 1 - Overlay.
6. Doors, Drawer Fronts, and False Fronts: Flush Overlay.
   a. Edgeband: Through-Color ABS Edgebanding to match laminate patterns and colors.
      1) Basis of Design Manufacturer: Wilsonart.
      2) Other Manufacturers:
         (a) Doellken (if exact match is available).
         (b) Charter Industries (if exact match is available).
      3) Substitutions: See Section 01 6000 - Product Requirements.
   b. Edge Profile: Radius edge with thick applied band.
7. Hinges: See Hinges below.
   a. Door edges shall be notched for hinges in order to maintain proper gap tolerance.
8. Core Material: refer to Core Material sub-section below

D. Plastic Laminate Faced Cabinets: Custom grade.
1. Exposed Exterior/Interior Surfaces: HDPL, Type VGS.
2. Semi-Exposed Surfaces: HDPL, Type CLS.
3. Casework Construction Type: Type A - Frameless.
4. Interface Style: 1 - Overlay.
5. Doors, Drawer Fronts, and False Fronts: Flush Overlay.
   a. Edgeband: Through-Color ABS Edgebanding to match laminate patterns and colors.
      1) Basis of Design Manufacturer: Wilsonart
      2) Other Manufacturers :
         (a) Doellken (if exact match is available)
         (b) Charter Industries (if exact match is available)
      3) Substitutions: See Section 01 6000 - Product Requirements.
   b. Edge Profile: Radius edge with thick applied band.
6. Hinges: See Hinges below.
   a. Door edges shall be notched for hinges in order to maintain proper gap tolerance.
7. Core Material: Refer to Core Material sub-section below.

E. Toe Kick Finish: Rubber, tile, vinyl, or other finished base shall be furnished and installed by others.
F. Fixed and Adjustable Shelving:
   1. All shelving is 1 inch (25 mm) thick, no exceptions.

2.03 CORE MATERIALS

A. Manufacturers:
   1. Roseburg; http://www.roseburg.com/
   2. Columbia Forest Products; www.columbiaforestproducts.com.
   3. States Industries; www.statesind.com.
   4. Substitutions: See Section 01 6000 - Product Requirements.
B. Core Materials:
   1. Combination Core: ANSI A208.1 or ANSI A208.2; composed of engineered MDF composite crossbands combined with inner plies of veneer core.
      a. Provide products having no added urea-formaldehyde resins.
   2. Water Resistant Medium Density Fiberboard (MDF): ANSI A208.2, industrial grade MDF; composed of wood fibers pressure bonded with moisture resistant adhesive to suit application; sanded faces; thickness as indicated.

2.04 LAMINATE MATERIALS

A. Manufacturers:
   1. Basis of Design: Wilsonart: www.wilsonart.com.
   2. Other Manufacturers:
      a. Pionite; www.panolam.com/pionite.
      b. Formica Corporation: www.formica.com.
      c. Panolam Industries International, IncNevamar: www.nevamar.com.
      d. Substitutions: See Section 01 6000 - Product Requirements.
B. High Pressure Decorative Laminate (HPDL): NEMA LD 3, types as recommended for specific applications.
C. Provide specific types as follows:
   1. Horizontal Surfaces: HGS, 0.048 inch nominal thickness, through color, colors/patterns as selected from manufacturer's full line (including premium), finishes as selected from manufacturer's full range.
   2. Vertical Surfaces: VGS, 0.028 inch nominal thickness, through color, colors/patterns as selected from manufacturer's full line (including premium), finishes as selected from manufacturer's full range.
   3. Cabinet Liner: CLS, 0.020 inch nominal thickness, through color, colors/patterns as selected from manufacturer's full line, finishes as selected from manufacturer's full range.
   4. Laminate Backer: BKL, 0.020 inch nominal thickness, undecorated; for application to concealed backside of panels faced with high pressure decorative laminate.
D. ABS/PVC Edgebanding: Through-Color ABS/PVC Edgebanding to match laminate patterns and colors.
   1. 0.5 mm thick at Case Bodies.
   2. 3 mm thick at Doors, Drawer Fronts, False Fronts, and Shelves.
   3. Manufacturers:
      a. Wilsonart International, Inc: www.wilsonart.com.
      b. ReHau, Inc: www.rehau.com.
      c. Substitutions: See Section 01 6000 - Product Requirements.

2.05 COUNTERTOPS

A. Quality Grade: Unless otherwise indicated provide products of quality specified by AWI//AWMAC/WI Architectural Woodwork Standards for Grades corresponding with Casework Quality Grades.
B. Solid Surface Countertops: Refer to Section 06 6116 - Solid Surfacing Fabrications.
C. Fabricate tops and splashes in the largest sections practicable, with top surface of joints flush.
   1. Join lengths of tops using best method recommended by manufacturer.
      a. Fabricate to overhang fronts and ends of cabinets 1 inch except where top butts against cabinet or wall.
   2. Prepare all cutouts accurately to size; replace tops having improperly dimensioned or unnecessary cutouts or fixture holes.
      a. Return laminate under substrate to back of vertical face of cabinet, fully capsulating the substrate.
D. Provide back/end splash wherever counter edge abuts vertical surface unless otherwise indicated.
   1. Secure to countertop with concealed fasteners and with contact surfaces set in waterproof glue.
   2. Height: 4 inches, unless otherwise indicated.
E. Wall-Mounted Counters: Provide skirts, aprons, brackets, and braces, finished to match.
F. Plastic Laminate Countertops: High pressure decorative laminate sheet bonded to substrate.
   1. Laminate Sheet: HPDL, Type HGS.
      a. Wear Resistance: In addition to specified grade, comply with NEMA LD 3 High Wear Grade requirements for wear resistance.
      b. Laminate Core Color: Same as decorative surface.
   2. Front Edge Treatment: Postformed laminate; front edge substrate built up to minimum 1-1/4 inch (32 mm) thick with square self edge.
      a. Return laminate under substrate to back of vertical face of cabinet, fully capsulating the substrate.
   3. Back Splash: Self-edge, square butt splash, 4 inches (100 mm) above deck.
   4. Supporting Substrate: Medium Density Fiberboard.
      a. Use Water Resistant Medium Density Fiberboard at Wet Locations.

2.06 ACCESSORIES

A. Adhesives: Type recommended by WI to suit application.
B. Bolts, Nuts, Washers, Lags, Pins, and Screws: Of size and type to suit application; galvanized or chrome-plated finish in concealed locations and stainless steel finish in exposed locations.
C. Concealed Joint Fasteners: Threaded steel.
   1. Hot glue and dowels.
   2. Threaded steel.
D. Grommets: Standard plastic or rubber grommets for cut-outs, in color to blend with adjacent surface. Color to be selected by Architect from manufacturer's full color line.
E. Silicone Sealant: ASTM C920, Grade NS, Class 25, Uses NT, A, G, M , O; single component, solvent curing, non-sagging, non-staining, fungus resistant, non-bleeding.
   1. Color: Clear.
   2. Movement Capability: Plus and minus 25 percent.
   3. Service Temperature Range: -65 to 180 degrees F (-54 to 82 degrees C).
   4. Shore A Hardness Range: 15 to 35.
   5. Acceptable Manufacturers: Refer to Section 07 9200 - Joint Sealants.

2.07 HARDWARE

A. Hardware: Meeting all BHMA A156.9 Standards and AWI//AWMAC/WI Architectural Woodwork Standards for Grades indicated.
B. Manufacturers:
   1. Rockford Process Control: www.rockfordprocess.com.
   2. Hardware Resources: www.hardwareresources.com.
   3. Salice America, Inc: www.saliceamerica.com.
   4. Grass America, Inc: www.grassusa.com.
   5. Hettich America, LP: www.hettichamerica.com.
   6. Julius Blum, Inc: www.blum.com.
   7. Accuride International, Inc: www.accuride.com.
   8. Knape & Vogt Manufacturing Company: www.kv.com.
   9. Fellowes Corporation: www.fellowes.com.
   10. Hafele America: www.hafele.com.
   11. Bainbridge Manufacturing, Inc: www.bainbridgestore.com.
   12. Ives (Ingersoll Rand): www.professional.iveshardware.com.
   13. Substitutions: See Section 01 60 00 - Product Requirements.
C. Hinges:
   1. European style concealed, self-closing, adjustable type, BHMA No. 156.9, Grade 2, steel with satin finish.
      a. 165 degree at End Cabinets and Stand Alone Cabinets, 110 degrees everywhere else.
      b. Doors 48 inches and over in height have 3 hinges per door.
      c. Acceptable Product: Series 200 manufactured by Salice America, Inc.
D. Drawer Slides:
   1. General Purpose Drawers: Ball bearing slide with rail/bracket mount, full extension plus 1 inch (25 mm) over travel slides, hold-in detent and a 100 lbs /pair load rating. RoHS compliant and BHMA certified to Grade 1 HD-100. RoHS compliant.
      a. Acceptable Product: 3832E - 3834E manufactured by Accuride.
   2. File Drawers: Ball bearing slide with rail/bracket mount, full extension plus 1 inch (25 mm) over travel slides, hold-in detent and a 100 to 150 lbs/pair load rating. RoHS compliant and BHMA certified to Grade 1 HD-100. RoHS compliant.
      a. Acceptable Product: 4032- 4035 manufactured by Accuride.
   3. Drawer slides shall have a lifetime warranty as offered by the manufacturer
E. Locks with strikes: 2 keys per lock, key all cabinets in same room to one key, rooms keyed different, one master key fits all. review keying requirements and schedules with Owner prior to installation.
   1. Drawer and Door Locks: 5-pin tumbler, complying with ANSI/BHMA A156.11, Grade 1.
   2. Doors and Drawers: 7/8 inch for doors and 7/8 - 1 3/8 inch for drawers.
   3. Finish: Satin Chrome: 26D
   4. Cam type locks are not acceptable
   5. Acceptable Products:
      a. Olympus Lock, Inc; Product - "100DR, 200DW, 329R": www.olympus-lock.com.
      b. CompX National; Product - "National Lock C8178, C8173, C8179": www.compxnet.com.
      c. Hafele America; Product - "232.14 Series": www.hafele.com.
      d. No substitutions allowed.
F. Chain Bolts and Elbow Catches: Chain bolts are 3 inches long, and have an 18 inch pull and an angle strike to secure inactive door on cabinets over 72 inches in height. Elbow catches are used on inactive doors up to and including 72 inches in height.

G. Elbow Catch: Die cast aluminum with clear anodized finish.
H. Drawer and Door Pulls: "U" shaped wire pull, stainless steel with satin finish, 4 inch (100 mm) centers.
I. Adjustable Shelf Supports: Adjustable shelves shall be supported on adjustable shelf supports inserted in shelf holes drilled into the case end or partitions and adjustable on 1 1/2 inch (38 mm) centers. Supports shall be clear nylon, dual-pegged shelf securing clips (no exceptions).
   1. Acceptable Product: Model 3220 - Duel Peg Locking Tongue Support manufactured by Bainbridge Manufacturing, Inc.
J. Coat and Hat Hooks: Shall be cast aluminum with finish as selected by Architect.
   1. Acceptable Product: Ives #405" manufactured by Ives (Ingersoll Rand).
K. Casters: All casters for mobile cabinets shall be 4 inches (102 mm) high swivel casters with 1 1/16 inches (27 mm) tread and locking brakes on two casters per cabinet.
L. Wardrobe Clothes Rod w/ Sockets: Shall be 1 1/16 inch (27 mm) OD. tubing with stainless steel finish. Sockets shall have chrome finish.
M. Hanging File Rods: All “File” type drawers to receive (2) 1/8 inch (3 mm) x 1 inch (25 mm) galvanized steel or aluminum rods w/ steel clips that attach to inner face of drawer box. Allow clearance for hanging folders and label tabs.
N. Workstation/Counter Support Brackets - Heavy Duty - Concealed
   1. A&M Hardware C flat concealed bracket mounted to studs with drywall installed over bracket face.
   2. A&M Hardware C flat concealed bracket mounted to studs with plastic laminate faced installed over bracket face.

PART 3 EXECUTI

3.01 FABRICATION

A. Note: AWI//AWMAC/WI Architectural Woodwork Standards for Premium Grade shall take precedence if any conflict arises with fabrication guidelines below.
B. Assembly: Shop assemble cabinets for delivery to site in units easily handled and to permit passage through building openings.
C. Edging: Fit shelves, doors, and exposed edges with specified edging. Do not use more than one piece for any single length.
D. Fitting: When necessary to cut and fit on site, provide materials with ample allowance for cutting. Provide matching trim for scribing and site cutting.
E. Plastic Laminate: Apply plastic laminate finish in full uninterrupted sheets consistent with manufactured sizes. Fit corners and joints hairline; secure with concealed fasteners. Slightly bevel arises. Locate counter butt joints minimum 2 feet from sink cut-outs.
   1. Apply laminate backing sheet to reverse side of plastic laminate finished surfaces.
   2. Cap exposed plastic laminate finish edges with material of same finish and pattern.
F. Matching Wood Grain: Comply with requirements of quality standard for specified Grade and as follows:
   1. Provide center matched panels at each elevation.
   2. Provide sequence matching across each elevation.
   3. Carry figure of cabinet fronts to toe kicks.
G. Provide cutouts for plumbing fixtures. Verify locations of cutouts from on-site dimensions. Prime paint cut edges.
H. Toe Kicks: Fixed cabinet toe kicks are constructed of 3/4 inch (19 mm) exterior grade oriented strand board with 2 x 4 inch (50 x 102 mm) fir stringers. Bases are leveled and anchored to the floor in continuous lengths to ensure straight and true lines of casework. Rubber, vinyl, tile or other finished base shall be furnished and installed by others.
I. Laminate Faced Cabinets:

1. Case Body:
   a. Ends: Case ends shall be 3/4 inch (19mm) thick combination core. Exposed exterior cabinet ends shall be laminated with VGS laminate. Concealed ends shall be laminated with BKL laminate. Interior surfaces shall be laminated with CLS laminate. Exposed edges shall be edged with PVC edge-banding. Holes shall be drilled for adjustable shelf supports at 32 mm (1 1/4 inch) centers.
2. Cabinet Top and Bottom:
   a. Base and tall cabinet top and bottoms shall be 3/4 inch (19 mm) thick combination core. Exposed sides shall be laminated with CLS laminate and concealed sides shall be laminated with BKL laminate.
   b. Wall cabinet top and bottom shall be 1 inch (25 mm) thick for all cabinets. Laminated with CLS laminate on both sides.
   c. All edges shall be banded with PVC edge-banding.
3. Fixed and Adjustable Shelves:
   a. All shelves shall be 1 inch (25 mm) thick combination core board laminated with CLS laminate on both sides.
   b. All exposed edges shall be banded with PVC edge-banding.
   c. All shelves to be adjustable on 1 1/2 inch (38 mm) centers.
4. All exposed shleves shall be 1 inch thick combination core board laminated with VGS on both sides.
5. Cabinet Backs:
   a. Cabinet backs shall be 1/4 inch (6 mm) thick hardboard laminated with CLS laminate for use in cabinets with or without doors and shall be recessed into ends and sides.
   b. Exposed backs shall be 3/4 inch (19 mm) thick combination core with CLS laminate on interior and VGS laminate on exterior surface.
6. Doors and Drawer Fronts:
   a. Plastic Laminate Doors and Drawer Fronts: Plastic laminate doors and drawer fronts shall be 3/4 inch (19 mm) thick with VGS laminate on exterior face and CLS laminate on interior face.
   b. Doors and drawer fronts shall be edged with PVC edge-banding.
7. Drawers:
   a. Drawer box sides, backs, and sub-fronts shall be 5/8 inch (16 mm) thick combination core laminated with CLS laminate. All edges shall be banded with PVC edge-banding.
   b. Drawer bottoms shall be 1/4 inch (6 mm) thick hardboard or combination core laminated with CLS laminate recessed into the sides, backs, and sub-front.
   c. Paper storage drawers shall be fitted with a hood at back of paper retainage and shall have a 1/2 inch (13 mm) thick reinforced bottom.
   d. Drawer fronts shall be mounted with adjusting mechanism to allow complete adjustability and alignment in the field.

3.02 SHOP FINISHING

A. Finish work in accordance with AWI/AWMAC/WI (AWS) or AWMAC/WI (NAAWS), Section 5 - Finishing for grade specified and as follows:
   1. Transparent:
      a. System - 7, Vinyl, Catalyzed.
      b. Stain: As selected by Architect.
      c. Sheen: Satin.
B. Finish components including casework, paneling, and trim at the same time in the same facility

PART 3 EXECUTION

4.01 EXAMINATION

A. Verify adequacy and proper location of any required backing and support framing.
B. Verify that mechanical, electrical, plumbing, and other building components affecting work in this Section are in place and ready.

4.02 INSTALLATION

A. Install work in accordance with AWI/AWMAC/WI (AWS) or AWMAC/WI (NAAWS) requirements for grade indicated.
B. Secure all cabinets in accordance with Seismic Design Category D requirements, ICC (IBC).
C. Set and secure all casework in place, assuring that they are rigid, plumb, and level.
D. Carefully scribe casework abutting other components, with maximum gaps of 1/32 inch. Do not use additional overlay trim for this purpose.
E. All casework items shall be securely anchored to building structure, except for those items identified as "mobile" or "moveable" on drawings, which are to be adjusted to prevent any rocking when sitting on finish floor.
F. Primary anchorage of base and wall cabinets shall be through the cabinet back into wall framing or blocking furnished under other sections. Additional anchorage will be made into cabinet bases and adjacent side walls where they occur. Appropriate sized anchor screws shall be used to best attach to the existing wall condition which will allow each cabinet to be loaded to a capacity of 50 lbs. per sq. ft. of shelf area.
G. At free-spanning countertops or work surfaces, steel support brackets shall be provided at a maximum spacing of 32 inches (812 mm), or as shown on drawings. Support brackets are to be designed to allow for knee space clearance and attach to wall framing for support.
H. Secure cabinets to floor using appropriate angles and anchorages.
I. Countersink anchorage devices at exposed locations. Conceal with solid wood plugs of species to match surrounding wood; finish flush with surrounding surfaces.
J. Site glaze glass materials using the Interior Dry method specified in Section 08 8000.
K. Mechanical fasteners used at exposed and semi-exposed surfaces, excluding installation attachment screws and those securing cabinets end to end, shall be countersunk.
L. Equipment cutouts shown on plans shall be cut by the installer.

4.03 COORDINATION

A. Verify requirements and location from architect before cutting holes for paper slots and grommets.
B. Provide cutting and fitting as necessary to accommodate mechanical and electrical work built into casework units.
C. Provide alterations to casework to keep devices accessible when they are covered by casework. This includes mechanical and electrical switches, receptacles, panels, access doors and other devices.

4.04 CAULKING

A. Joint Cleaning: Apply sealant to clean, dry surface free from grease, oil, wax or other foreign matter tending to destroy or impair adhesion. Clean and prime in accordance with sealant manufacturer's instructions if required.
B. Application: Apply sealants strictly in accordance with manufacturer's instructions and supervision, by manufacturer approved applicator. Provide technical field assistance by manufacturers to ensure proper mixing of sealants, cleaning of surfaces and application of materials.

C. Cleaning and Protection: Carefully protect adjoining surfaces from staining. Immediately remove any material on surfaces not to receive sealant and restore finish as required. Where cleaning and restoration is not acceptable, remove affected work and provide new work conforming to applicable requirements as directed at Contractor's expense.
D. Fill joints partially with closed cell expanded backing using only compatible materials until joint width does not exceed joint depth. Apply sealant under sufficient pressure to completely fill voids. Finish exposed joints smooth, flush with surface or recessed as shown.

4.05 ADJUSTING AND TOUCH UP

A. Before completion of the installation, the installer shall adjust all moving and operating parts to function smoothly and correctly.
B. All nicks, chips, and scratches in the finish shall be filled and retouched. Damaged items that cannot be repaired shall be replaced.
C. Test installed work for rigidity and ability to support loads.

4.06 CLEANING

A. All casework shall be broom cleaned. All debris, including packaging and scraps, shall be removed to the appropriate job waste dump.
B. This Contractor shall clean interiors and exteriors of the cabinets repairing all scratches, buffs, etc., using factory-approved cleaning and polishing solutions.
C. Damaged surfaces which cannot be repaired properly shall be replaced as directed by the Architect and at no additional cost to the Owner.
D. Upon completion of installation, the installer shall clean all installed items of pencil and ink marks and broom clean the area of operation.

SECTION 07 5419

SINGLE-PLY PVC THERMOPLASTIC ROOFING

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Mechanically attached PVC thermoplastic roofing membrane.
B. Insulation, flat and tapered.
C. Vapor retarder.
D. Roofing cant strips, stack boots, roofing expansion joints, and walkway pads.

1.02 RELATED REQUIREMENTS

A. Section 07 6200 - Sheet Metal Flashing and Trim: Counterflashings, reglets and .

1.03 REFERENCE STANDARDS

A. ASCE 7 - Minimum Design Loads and Associated Criteria for Buildings and Other Structures; Most Recent Edition Cited by Referring Code or Reference Standard.
B. ASTM C578 - Standard Specification for Rigid, Cellular Polystyrene Thermal Insulation; 2019.
C. ASTM C1177/C1177M - Standard Specification for Glass Mat Gypsum Substrate for Use as Sheathing; 2017.
D. ASTM C1289 - Standard Specification for Faced Rigid Cellular Polyisocyanurate Thermal Insulation Board; 2022.
E. ASTM D4434/D4434M - Standard Specification for Poly(Vinyl Chloride) Sheet Roofing; 2021.
F. FM DS 1-28 - Wind Design; 2016.
G. FM DS 1-29 - Roof Deck Securement and Above-Deck Roof Components; Factory Mutual System; 2016.
H. NRCA (RM) - The NRCA Roofing Manual; 2022.

1.04 SUBMITTALS

A. See Section 01 3000 - Administrative Requirements for submittal procedures.
B. Product Data: Provide manufacturer's written information listed below.
   1. Product data indicating membrane materials, flashing materials, insulation, vapor retarder, surfacing, and fasteners.
C. Shop Drawings: Indicate joint or termination detail conditions, conditions of interface with other materials, and paver layout.
D. Manufacturer's Certificate: Certify that products meet or exceed specified requirements.
E. Warranty:
   1. Submit manufacturer warranty and ensure that forms have been completed in Owner's name and registered with manufacturer.
   2. Submit installer's certification that installation complies with all warranty conditions for the waterproof membrane.
F. Installer's qualification statement.

1.05 DELIVERY, STORAGE, AND HANDLING

A. Deliver products in manufacturer's original containers, dry, undamaged, with seals and labels intact.
B. Protect products in weather protected environment, clear of ground and moisture.
C. Protect foam insulation from direct exposure to sunlight.

1.06 FIELD CONDITIONS

A. Do not apply roofing membrane during unsuitable weather.
B. Do not apply roofing membrane when ambient temperature is below 40 degrees Fahrenheit or above
   1. degrees F.
C. Do not apply roofing membrane to damp or frozen deck surface or when precipitation is expected or occurring.
D. Do not expose materials vulnerable to water or sun damage in quantities greater than can be weatherproofed the same day.

1.07 WARRANTY

A. See Section 01 7800 - Closeout Submittals for additional warranty requirements.
B. System Warranty: Provide manufacturer's system warranty agreeing to repair or replace roofing that leaks or is damaged due to wind or other natural causes.
   1. Warranty Term: 30 years.
   2. For repair and replacement include costs of both material and labor in warranty.
   3. Exceptions NOT Permitted:
      a. Damage due to wind of speed greater than 56 mph but less than 90 mph.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Basis of Design: Carlisle SynTec: www.carlisle-syntec.com.
B. Sika Sarnifil.
C. Substitutions: Not permitted.

2.02 ROOFING APPLICATIONS

A. PVC Membrane Roofing: One ply membrane, mechanically fastened, over insulation.
B. Roofing Assembly Performance Requirements and Design Criteria:
   1. Wind Uplift:
      a. Designed to withstand wind uplift forces calculated with ASCE 7.
      b. Design Wind Speed: In accordance with local building code and authorities having jurisdiction (AHJ).

2.03 ROOFING MEMBRANE AND ASSOCIATED MATERIALS

A. Membrane:
   1. Material: Polyvinyl chloride (PVC) complying with ASTM D4434/D4434M.
   2. Reinforcing: Internal fabric.
   3. Thickness: 60 mils (0.060 inch), minimum.
   4. Sheet Width: Factory fabricated into largest sheets possible.
   5. Color: White.
   6. Products:
      a. Carlisle SynTec Systems; SureFlex PVC.
B. Seaming Materials: As recommended by membrane manufacturer.
C. Membrane Fasteners: As recommended and approved by membrane manufacturer.
   1. Carlisle SynTec Systems; HP-X Fastener: #15 threaded fastener with #3 Phillips drive. Use with Carlisle SynTec Systems Piranha Fastening Plate for mechanically fastened membrane systems on steel or plywood decks.

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~~D. Vapor Retarder: Material approved by roof manufacturer complying with requirements of fire rating classification; compatible with roofing and insulation materials~~.

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1. ~~Fire-retardant adhesive.~~

E. Flexible Flashing Material: Same material as membrane.

2.04 DECK SHEATHING AND COVER BOARDS

A. ~~Deck Sheathing and Cover Board: Glass mat faced gypsum panels, ASTM C1177/C1177M, fire resistant type, 5/8 inch thick.~~

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1. ~~Product: See Section 09 2116 Gypsum Board Assemblies~~
   a. ~~See drawings for locations.~~

B. Cover Board: Polyisocyanurate (ISO) thermal board, complying with ASTM C1289; Type II - Faced with dark coated-glass facer on one side and light coated-glass facer on other surface of core foam, Class 4 with thickness of 1/2 inch, and Grade 1 with 109 psi, maximum, compressive strength.
   1. Product: Carlisle SecurShield HD Polyiso.

2.05 INSULATION

A. Expanded Polystyrene (EPS) Board Insulation: Complies with ASTM C578, and with drainage channels on one face.
   1. Tapered Board: Slope as indicated; minimum thickness 1/2 inch; fabricate of fewest layers possible.
   2. Type and Compressive Resistance: Type XI, 5 psi, minimum.

B. Composite Polyisocyanurate (ISO) Board Insulation: Composite insulation panel comprised of 1/2 inch thick high-density ISO cover board laminated to ISO base insulation, complying with ASTM C1289.
   1. Base Insulation: Type II, Class 2, Grade 2, with 20 psi, minimum, compressive strength.
   2. Cover Board: Type II, Class 4, Grade 1, with 109 psi, maximum, compressive strength.
   3. Product: Carlisle SecurShield HD Composite.

2.06 ACCESSORIES

A. Prefabricated Flashing Accessories:
   1. Corners and Seams: Same material as membrane, in manufacturer's standard thicknesses.
   2. Penetrations: Same material as membrane, with manufacturer's standard cut-outs, rigid inserts, clamping rings, and flanges.
   3. Walkway Rolls: Sure-Flex Heat Weldable Walkway Rolls; 80 mils (0.080 inch) thick; gray membrane.
   4. Contour Rib Profile: Manufacturer's standard extruded PVC; 1-1/4 inch tall, 2-1/8 inch wide, 3/8 inch profile.
   5. Miscellaneous Flashing: Non-reinforced PVC membrane; 80 mils (0.080 inch) thick, in manufacturer's standard lengths and widths.

B. Insulation Fasteners: Appropriate for purpose intended and approved by roofing manufacturer.

C. Membrane Adhesive: As recommended by membrane manufacturer.
   1. Products:

D. Surface Conditioner for Adhesives: Compatible with membrane and adhesives.

E. Sealants: As recommended by membrane manufacturer.
   1. Products:

F. Cleaner: Manufacturer's standard, clear, solvent-based cleaner.

G. Edgings and Terminations: Manufacturer's standard edge and termination accessories.
   1. Snap-On Edge System:
   2. Anchor Bar Fascia System:
   3. Drip Edge:

4. Coping:
5. PVC Coated Sheet Metal.
6. Termination Bar.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that surfaces and site conditions are ready to receive work.
B. Verify deck is supported and secure.
C. Verify deck is clean and smooth, flat, free of depressions, waves, or projections, properly sloped and suitable for installation of roof system.
D. Verify deck surfaces are dry and free of snow or ice.
E. Verify that roof openings, curbs, and penetrations through roof are solidly set, and cant strips are in place.

3.02 INSTALLATION - GENERAL

A. Perform work in accordance with manufacturer's instructions and NRCA (RM) applicable requirements.
B. Do not apply roofing membrane during unsuitable weather.
C. Do not apply roofing membrane when ambient temperature is outside the temperature range recommended by manufacturer.
D. Do not apply roofing membrane to damp or frozen deck surface or when precipitation is expected or occurring.
E. Do not expose materials vulnerable to water or sun damage in quantities greater than can be weatherproofed the same day.

3.03 INSTALLATION - GENERAL

A. Perform work in accordance with manufacturer's instructions.
B. Do not apply roofing membrane during unsuitable weather.
C. Do not apply roofing membrane when ambient temperature is outside the temperature range recommended by manufacturer.
D. Do not apply roofing membrane to damp or frozen deck surface or when precipitation is expected or occurring.
E. Do not expose materials vulnerable to water or sun damage in quantities greater than can be weatherproofed the same day.

3.04 INSULATION INSTALLATION

A. Attachment of Insulation:
   1. Mechanically fasten insulation to deck in accordance with roofing manufacturer's instructions and Factory Mutual requirements.
B. Lay subsequent layers of insulation with joints staggered minimum 6 inches from joints of preceding layer.
C. Lay boards with edges in moderate contact without forcing, and gap between boards no greater than 1/4 inch. Cut insulation to fit neatly to perimeter blocking and around penetrations through roof.
D. Do not apply more insulation than can be completely waterproofed in the same day.

3.05 MEMBRANE APPLICATION

A. Roll out membrane, free from wrinkles or tears. Place sheet into place without stretching.
B. Shingle joints on sloped substrate in direction of drainage.
C. Seam Welding:

1. Seam Welding: Overlap edges and ends and seal seams by heat welding, minimum 2 inches.
2. Cover all seams with manufacturer's recommended joint covers.
3. Probe all seams once welds have thoroughly cooled. (Approximately 30 minutes.)
4. Repair all deficient seams within the same day.
5. Seal cut edges of reinforced membrane after seam probe is complete.

D. Mechanical Attachment:
1. Apply membrane and mechanical attachment devices in accordance with manufacturer's instructions.

E. At intersections with vertical surfaces:
1. Extend membrane over cant strips and up a minimum of 4 inches onto vertical surfaces.
2. Fully adhere flexible flashing over membrane and up to nailing strips.

F. Coordinate installation of roof drains and sumps and related flashings.

G. Daily Seal: Install daily seal per manufacturers instructions at the end of each work day. Prevent infiltration of water at incomplete flashings, terminations, and at unfinished membrane edges.

3.06 FIELD QUALITY CONTROL

A. See Section 01 4000 - Quality Requirements for general requirements for field quality control and inspection.

B. Require site attendance of roofing and insulation material manufacturers daily during installation of the Work.

3.07 CLEANING

A. See Section 01 7000 - Execution and Closeout Requirements for additional requirements.

B. Remove bituminous markings from finished surfaces.

C. In areas where finished surfaces are soiled by work of this section, consult manufacturer of surfaces for cleaning advice and conform to their documented instructions.

D. Repair or replace defaced or damaged finishes caused by work of this section.

3.08 PROTECTION

A. Protect installed roofing and flashings from construction operations.

B. Where traffic must continue over finished roof membrane, protect surfaces using durable materials.

END OF SECTION 07 5419

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SECTION 08 1416

FLUSH WOOD DOORS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Furnish all labor, materials, equipment, tools, and services required to fully complete all Flush Wood Door work as is indicated on the drawings and/or specified herein including, but not limited to, the following described items.
B. Flush wood doors; flush and flush glazed configuration; fire rated, non-rated, acoustical, and special function.
   1. Sound-rated doors to be provided at all Music Rooms, and other areas as noted on Drawings.
C. Door hardware.
   1. Provide hardware and installation for work associated with this section as scheduled by Section 08 7100.
D. Do not include sales tax, refer to Section 00 1115 - Advertisement for Prequalification of Bidders.

1.02 RELATED REQUIREMENTS

A. Section 08 1113 - Hollow Metal Doors and Frames.
B. Section 08 7100 - Door Hardware.
C. Section 08 8000 - Glazing

1.03 REFERENCE STANDARDS

A. ASTM E90 - Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements; 2009 (Reapproved 2016).
B. ASTM E413 - Classification for Rating Sound Insulation; 2016.
C. AWI (QCP) - Quality Certification Program; Current Edition.
D. AWI/AWMAC/WI (AWS) - Architectural Woodwork Standards, 2nd Edition; 2014, with Errata (2016).
E. AWMAC/WI (NAAWS) - North American Architectural Woodwork Standards; 2021, with Errata.
F. NFPA 80 - Standard for Fire Doors and Other Opening Protectives; 2022.
G. UL 10C - Standard for Positive Pressure Fire Tests of Door Assemblies; Current Edition, Including All Revisions.
H. WDMA I.S. 1A - Interior Architectural Wood Flush Doors; 2013.

1.04 SUBMITTALS

A. See Section 01 3000 - Administrative Requirements for submittal procedures.
B. Product Data: Indicate door core materials and construction, veneer species, type, and characteristics.
C. Shop Drawings: Show doors and frames, elevations, sizes, types, swings, undercuts, beveling, blocking for hardware, factory machining, factory finishing, cutouts for glazing and other details.
   1. Provide information as required by AWI/AWMAC/WI (AWS) or AWMAC/WI (NAAWS).
D. Samples: Submit two samples of door construction, 8 inches by 8 inches in size cut from top corner of door.
E. Samples: Submit two samples of door veneer, 8 inches by 8 inches in size illustrating wood grain, stain color, and sheen.

F. Certificate: Submit labels and certificates required by quality assurance and quality control programs.
G. Test Reports: Show compliance with specified requirements for the following:
   1. Sound-rated doors and frames; sealed panel tests are not acceptable.
H. Samples: Submit two samples of edgebanding, 6 inches (150 mm) in length illustrating color and pattern.
I. Manufacturer's Installation Instructions: Indicate special installation instructions.
J. Manufacturer's qualification statement.
K. Specimen warranty.
L. Warranty, executed in Cache County School District 's name.

1.05 QUALITY ASSURANCE

A. Maintain one copy of the specified door quality standard on site for review during installation and finishing.
B. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section, with no less than three years of documented experience.
   1. Company with at least one project within past five years with value of woodwork within at least 20 percent of cost of woodwork for this project.
   2. Accredited participant in the specified certification program prior to the commencement of fabrication and throughout the duration of the project.
C. Installer Qualifications: Company specializing in performing work of the type specified in this section, with no less than three years of documented experience.
D. Woodwork Quality Assurance Program:
   1. Comply with AWI (QCP) woodwork association quality certification service/program in accordance with requirements for work specified in this section.
   2. Provide labels indicating that the installed work complies with AWI/AWMAC/WI (AWS) or AWMAC/WI (NAAWS) requirements for grade or grades specified.
   3. Provide designated labels on shop drawings as required by quality assurance program.
   4. Provide designated labels on installed products as required by quality assurance program.
   5. Submit documentation upon completion of installation that verifies this work is in compliance with specified requirements.
E. Single-Source Responsibility: Obtain doors from one source and by a single manufacturer.

1.06 DELIVERY, STORAGE, AND HANDLING

A. Package, deliver, and store doors in accordance with specified quality standard.
B. Accept doors on site in manufacturer's packaging, and inspect for damage.
C. Protect doors with resilient packaging sealed with heat shrunk plastic; do not store in damp or wet areas or areas where sunlight might bleach veneer; seal top and bottom edges with tinted sealer if stored more than one week, and break seal on site to permit ventilation.
D. Contractor shall use all means necessary to protect doors from damage prior to, during, and after installation. All damaged doors shall be repaired or replaced by the Contractor at no cost to the Owner.
E. Doors shall be palletized at factory in stack of no more than 30 doors per pallet. Door edges shall be protected with heavy corner guards.

1.07 PROJECT CONDITIONS

A. Conditioning: Do not deliver or install doors until conditions for temperature and relative humidity have been stabilized and will be maintained in storage and installation areas during the remainder of the construction period to comply with the following requirements applicable to Project’s geographical location:

1. AWS quality standard Section 2 Care and Storage.

1.08 WARRANTY

A. See Section 01 7800 - Closeout Submittals for additional warranty requirements.
B. Interior Doors: Provide manufacturer's warranty for the life of the installation.
C. Include coverage for delamination of veneer, warping beyond specified installation tolerances, defective materials, and telegraphing core construction.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Basis of Design Manufacturer:
   1. Masonite Architectural. Product: Aspiro Series. Species: White Maple. Stain Color: Cocoa Bean. www.masonite.com.
B. Other Approved Manufacturers:
   1. Substitutions: See Section 01 6000 - Product Requirements.

2.02 DOORS AND PANELS

A. Doors: See drawings for locations and additional requirements.
   1. Quality Standard: Custom Grade, Heavy Duty performance, in accordance with AWI/AWMAC/WI (AWS), AWMAC/WI (NAAWS) or WDMA I.S. 1A.
   2. Wood Veneer-Faced Doors: 5-ply unless otherwise indicated.
   3. Glazed Lights: Factory glazed sizes and configurations as indicated on drawings.
B. Interior Doors: 1-3/4 inches thick unless otherwise indicated; flush construction.
   1. Provide solid core doors at each location.
   2. Fire Rated Doors: Tested to ratings indicated on drawings in accordance with UL 10C - Positive Pressure; Underwriters Laboratories Inc (UL) or Intertek/Warnock Hersey (WHI) labeled without any visible seals when door is open.
   3. Sound Rated Doors: Minimum STC of 45, calculated in accordance with ASTM E413, tested in accordance with ASTM E90.
      a. For Music Room, minimum STC of 60, calculated in accordance with ASTM E413, tested in accordance with ASTM E90.
   4. Wood veneer facing with factory transparent finish as selected by architect.

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2.03 DOOR AND PANEL CORES

A. Non-Rated Solid Core and 20 Minute Rated Doors: Type particleboard core (PC), plies and faces as indicated.
B. Fire-Rated Doors: Mineral core type, with fire resistant composite core (FD), plies and faces as indicated above; with core blocking as required to provide adequate anchorage of hardware without through-bolting.
C. Sound-Rated Doors: Equivalent to type, with acoustic core construction as required to achieve STC rating specified; plies and faces as indicated above.

2.04 DOOR FACINGS

A. Veneer Facing for Transparent Finish: Select White Maple, Premium HPVA Grade A, plain sliced (flat cut), with book match between leaves of veneer, center balance match of spliced veneer leaves assembled on door or panel face.
   1. Veneers shall be 5 inches minimum width.
   2. Vertical Edges: 1/8 inch (3 mm) PVC wood grain edgebanding to match wood veneer. Edgebanding selection to be approved by Architect.
      a. PVC on both vertical edges.

3. Pair Match each pair of doors; Set Match pairs of doors within 10 feet of each other when doors are closed.

B. Facing Adhesive: Type I - waterproof.

2.05 DOOR CONSTRUCTION

A. Fabricate doors in accordance with door quality standard specified.
B. Cores Constructed with stiles and rails:
   1. Provide solid blocks at lock edge and top of door for closer for hardware reinforcement.
   2. Provide solid blocking for other throughbolted hardware.
C. Where supplementary protective edge trim is required, install trim after veneer facing has been applied full-width.
D. Glazed Openings: Non-removable stops on non-secure side; sizes and configurations as indicated on drawings.
E. Factory machine doors for hardware other than surface-mounted hardware, in accordance with hardware requirements and dimensions.
F. Factory fit doors for frame opening dimensions identified on shop drawings, with edge clearances in accordance with specified quality standard.
G. Provide edge clearances in accordance with the quality standard specified.

2.06 FINISHES - WOOD VENEER DOORS

A. Finish work in accordance with AWI/AWMAC/WI (AWS) or AWMAC/WI (NAAWS), Section 5 - Finishing for grade specified and as follows:
   1. Transparent:
      a. System - 11 Polyurethane Catalyzed.
         1) AWI Section 1500, System TR-6 may also be used.
      b. Stain: Custom color as selected/approved by Architect.
      c. Sheen: Satin.
B. Finish work in accordance with WDMA I.S. 1A for grade specified and as follows:
C. Factory finish doors in accordance with approved sample.
D. Seal door top edge with color sealer to match door facing.

2.07 ACCESSORIES

A. Hollow Metal Door Frames: See Section 08 1113.
B. Glazing: See Section 08 8000.
C. Glazing Stops: Wood, of same species as door facing, butted corners; prepared for countersink style tamper proof screws.
   1. Non-Rated and 20 Minute: Flush, wood of same species as door facing.
      a. Acceptable Profile: Marshfield Type W-6.
   2. Fire-Rated 45 Minute or Above: Flush, wood veneer clad PVC, of same species as door facing.
D. Astragals for Fire-Rated Double Doors: Steel, T shaped, overlapping and recessed at face edge, specifically for double doors.
E. Door Hardware: Provide hardware and installation for work associated with this section as scheduled by Section 08 7100.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify existing conditions before starting work.
B. Verify that opening sizes and tolerances are acceptable.

C. Do not install doors in frame openings that are not plumb or are out-of-tolerance for size or alignment.

3.02 INSTALLATION

A. Install doors in accordance with manufacturer's instructions and specified quality standard.
   1. Install fire-rated doors in accordance with NFPA 80 requirements.
B. Factory-Finished Doors: Do not field cut or trim; if fit or clearance is not correct, replace door.
C. Use machine tools to cut or drill for hardware.
D. Coordinate installation of doors with installation of frames and hardware.
E. Coordinate installation of glazing.

3.03 TOLERANCES

A. Comply with specified quality standard for fit and clearance tolerances.
B. Comply with specified quality standard for telegraphing, warp, and squareness.

3.04 ADJUSTING

A. Adjust doors for smooth and balanced door movement.
B. Adjust closers for full closure.

3.05 SCHEDULE- SEE DRAWINGS

END OF SECTION 08 1416

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SECTION 08 7100
DOOR HARDWARE

PART 1 - GENERAL

1.01 SUMMARY

A. Section includes:

1. Mechanical and electrified door hardware
2. Electronic access control system components

B. Section excludes:

1. Windows
2. Cabinets (casework), including locks in cabinets
3. Signage
4. Toilet accessories
5. Overhead doors

C. Related Sections:

1. Division 01 "General Requirements" sections for Allowances, Alternates, Owner Furnished Contractor Installed, Project Management and Coordination.
2. Division 06 Section "Rough Carpentry"
3. Division 06 Section "Finish Carpentry"
4. Division 07 Section "Joint Sealants" for sealant requirements applicable to threshold installation specified in this section.
5. Division 08 Sections:
   a. "Metal Doors and Frames"
   b. "Flush Wood Doors"
   c. "Stile and Rail Wood Doors"
   d. "Interior Aluminum Doors and Frames"
   e. "Aluminum-Framed Entrances and Storefronts"
   f. "Stainless Steel Doors and Frames"
   g. "Special Function Doors"
   h. "Entrances"
6. Division 26 "Electrical" sections for connections to electrical power system and for low-voltage wiring.
7. Division 28 "Electronic Safety and Security" sections for coordination with other components of electronic access control system and fire alarm system.

1.02 REFERENCES

A. UL LLC

1. UL 10B - Fire Test of Door Assemblies
2. UL 10C - Positive Pressure Test of Fire Door Assemblies
3. UL 1784 - Air Leakage Tests of Door Assemblies
4. UL 305 - Panic Hardware

B. DHI - Door and Hardware Institute

1. Sequence and Format for the Hardware Schedule
2. Recommended Locations for Builders Hardware
3. Keying Systems and Nomenclature
4. Installation Guide for Doors and Hardware

C. NFPA – National Fire Protection Association

1. NFPA 70 – National Electric Code
2. NFPA 80 – 2016 Edition – Standard for Fire Doors and Other Opening Protectives
3. NFPA 101 – Life Safety Code
4. NFPA 105 – Smoke and Draft Control Door Assemblies
5. NFPA 252 – Fire Tests of Door Assemblies

D. ANSI - American National Standards Institute

1. ANSI A117.1 – 2017 Edition – Accessible and Usable Buildings and Facilities
2. ANSI/BHMA A156.1 - A156.29, and ANSI/BHMA A156.31 - Standards for Hardware and Specialties
3. ANSI/BHMA A156.28 - Recommended Practices for Keying Systems
4. ANSI/WDMA I.S. 1A - Interior Architectural Wood Flush Doors
5. ANSI/SDI A250.8 - Standard Steel Doors and Frames

1.03 SUBMITTALS

A. General:

1. Submit in accordance with Conditions of Contract and Division 01 Submittal Procedures.
2. Prior to forwarding submittal:
   a. Review drawings and Sections from related trades to verify compatibility with specified hardware.
   b. Highlight, encircle, or otherwise specifically identify on submittals: deviations from Contract Documents, issues of incompatibility or other issues which may detrimentally affect the Work.

B. Action Submittals:

1. Product Data: Submit technical product data for each item of door hardware, installation instructions, maintenance of operating parts and finish, and other information necessary to show compliance with requirements.
2. Riser and Wiring Diagrams: After final approval of hardware schedule, submit details of electrified door hardware, indicating:
   a. Wiring Diagrams: For power, signal, and control wiring and including:
      1) Details of interface of electrified door hardware and building safety and security systems.
      2) Schematic diagram of systems that interface with electrified door hardware.
      3) Point-to-point wiring.
      4) Risers.

3. Samples for Verification: If requested by Architect, submit production sample of requested door hardware unit in finish indicated and tagged with full description for coordination with schedule.

a. Samples will be returned to supplier. Units that are acceptable to Architect may, after final check of operations, be incorporated into Work, within limitations of key coordination requirements.

4. Door Hardware Schedule:
   a. Submit concurrent with submissions of Product Data, Samples, and Shop Drawings. Coordinate submission of door hardware schedule with scheduling requirements of other work to facilitate fabrication of other work critical in Project construction schedule.
   b. Submit under direct supervision of a Door Hardware Institute (DHI) certified Architectural Hardware Consultant (AHC) or Door Hardware Consultant (DHC) with hardware sets in vertical format as illustrated by Sequence of Format for the Hardware Schedule published by DHI.
   c. Indicate complete designations of each item required for each opening, include:
      1) Door Index: door number, heading number, and Architect's hardware set number.
      2) Quantity, type, style, function, size, and finish of each hardware item.
      3) Name and manufacturer of each item.
      4) Fastenings and other pertinent information.
      5) Location of each hardware set cross-referenced to indications on Drawings.
      6) Explanation of all abbreviations, symbols, and codes contained in schedule.
      7) Mounting locations for hardware.
      8) Door and frame sizes and materials.
      9) Degree of door swing and handing.
      10) Operational Description of openings with electrified hardware covering egress, ingress (access), and fire/smoke alarm connections.

5. Key Schedule:
   a. After Keying Conference, provide keying schedule that includes levels of keying, explanations of key system's function, key symbols used, and door numbers controlled.
   b. Use ANSI/BHMA A156.28 "Recommended Practices for Keying Systems" as guideline for nomenclature, definitions, and approach for selecting optimal keying system.
   c. Provide 3 copies of keying schedule for review prepared and detailed in accordance with referenced DHI publication. Include schematic keying diagram and index each key to unique door designations.
   d. Index keying schedule by door number, keyset, hardware heading number, cross keying instructions, and special key stamping instructions.
   e. Provide one complete bitting list of key cuts and one key system schematic illustrating system usage and expansion. Forward bitting list, key cuts and key system schematic directly to Owner, by means as directed by Owner.
   f. Prepare key schedule by or under supervision of supplier, detailing Owner's final keying instructions for locks.

C. Informational Submittals:

1. Provide Qualification Data for Supplier, Installer and Architectural Hardware Consultant.
2. Provide Product Data:
   a. Certify that door hardware approved for use on types and sizes of labeled fire-rated doors complies with listed fire-rated door assemblies.
   b. Include warranties for specified door hardware.

D. Closeout Submittals:

1. Operations and Maintenance Data: Provide in accordance with Division 01 and include:

a. Complete information on care, maintenance, and adjustment; data on repair and replacement parts, and information on preservation of finishes.
b. Catalog pages for each product.
c. Final approved hardware schedule edited to reflect conditions as installed.
d. Final keying schedule
e. Copy of warranties including appropriate reference numbers for manufacturers to identify project.
f. As-installed wiring diagrams for each opening connected to power, both low voltage and 110 volts.

E. Inspection and Testing:

1. Submit written reports to the Owner and Authority Having Jurisdiction (AHJ) of the results of functional testing and inspection for:
   a. Fire door assemblies, in compliance with NFPA 80.
   b. Required egress door assemblies, in compliance with NFPA 101.

1.04 QUALITY ASSURANCE

A. Qualifications and Responsibilities:

1. Supplier: Recognized architectural hardware supplier with a minimum of 5 years documented experience supplying both mechanical and electromechanical door hardware similar in quantity, type, and quality to that indicated for this Project. Supplier to be recognized as a factory direct distributor by the manufacturer of the primary materials with a warehousing facility in the Project's vicinity. Supplier to have on staff, a certified Architectural Hardware Consultant (AHC) or Door Hardware Consultant (DHC) available to Owner, Architect, and Contractor, at reasonable times during the Work for consultation.
2. Installer: Qualified tradesperson skilled in the application of commercial grade hardware with experience installing door hardware similar in quantity, type, and quality as indicated for this Project.
3. Architectural Hardware Consultant: Person who is experienced in providing consulting services for door hardware installations that are comparable in material, design, and extent to that indicated for this Project and meets these requirements:
   a. For door hardware: DHI certified AHC or DHC.
   b. Can provide installation and technical data to Architect and other related subcontractors.
   c. Can inspect and verify components are in working order upon completion of installation.
   d. Capable of producing wiring diagram and coordinating installation of electrified hardware with Architect and electrical engineers.

4. Single Source Responsibility: Obtain each type of door hardware from single manufacturer.

B. Certifications:

1. Fire-Rated Door Openings:
   a. Provide door hardware for fire-rated openings that complies with NFPA 80 and requirements of authorities having jurisdiction.
   b. Provide only items of door hardware that are listed products tested by UL LLC, Intertek Testing Services, or other testing and inspecting organizations acceptable to authorities having jurisdiction for use on types and sizes of doors indicated, based on testing at positive pressure and according to NFPA 252 or UL 10C and in compliance with requirements of fire-rated door and door frame labels.

2. Smoke and Draft Control Door Assemblies:
   a. Provide door hardware that meets requirements of assemblies tested according to UL 1784 and installed in compliance with NFPA 105
   b. Comply with the maximum air leakage of 0.3 cfm/sq. ft. (3 cu. m per minute/sq. m) at tested pressure differential of 0.3-inch wg (75 Pa) of water.

3. Electrified Door Hardware
   a. Listed and labeled as defined in NFPA 70, Article 100, by testing agency acceptable to authorities having jurisdiction.

4. Accessibility Requirements:
   a. Comply with governing accessibility regulations cited in "REFERENCES" article 087100, 1.02.D3 herein for door hardware on doors in an accessible route. This project must comply with all Federal Americans with Disability Act regulations and all Local Accessibility Regulations.

C. Pre-Installation Meetings

1. Keying Conference
   a. Incorporate keying conference decisions into final keying schedule after reviewing door hardware keying system including:
      1) Function of building, flow of traffic, purpose of each area, degree of security required, and plans for future expansion.
      2) Preliminary key system schematic diagram.
      3) Requirements for key control system.
      4) Requirements for access control.
      5) Address for delivery of keys.

2. Pre-installation Conference
   a. Review and finalize construction schedule and verify availability of materials, Installer's personnel, equipment, and facilities needed to make progress and avoid delays.
   b. Inspect and discuss preparatory work performed by other trades.
   c. Inspect and discuss electrical roughing-in for electrified door hardware.
   d. Review sequence of operation for each type of electrified door hardware.
   e. Review required testing, inspecting, and certifying procedures.
   f. Review questions or concerns related to proper installation and adjustment of door hardware.

3. Electrified Hardware Coordination Conference:
   a. Prior to ordering electrified hardware, schedule and hold meeting to coordinate door hardware with security, electrical, doors and frames, and other related suppliers.

1.05 DELIVERY, STORAGE, AND HANDLING

A. Inventory door hardware on receipt and provide secure lock-up for hardware delivered to Project site. Promptly replace products damaged during shipping.

B. Tag each item or package separately with identification coordinated with final door hardware schedule, and include installation instructions, templates, and necessary fasteners with each item or package. Deliver each article of hardware in manufacturer's original packaging.

C. Maintain manufacturer-recommended environmental conditions throughout storage and installation periods.

D. Provide secure lock-up for door hardware delivered to Project. Control handling and installation of hardware items so that completion of Work will not be delayed by hardware losses both before and after installation.

E. Handle hardware in manner to avoid damage, marring, or scratching. Correct, replace or repair products damaged during Work. Protect products against malfunction due to paint, solvent, cleanser, or any chemical agent.

F. Deliver keys to manufacturer of key control system for subsequent delivery to Owner.

1.06 COORDINATION

A. Coordinate layout and installation of floor-recessed door hardware with floor construction. Cast anchoring inserts into concrete.

B. Installation Templates: Distribute for doors, frames, and other work specified to be factory or shop prepared. Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing door hardware to comply with indicated requirements.

C. Security: Coordinate installation of door hardware, keying, and access control with Owner's security consultant.

D. Electrical System Roughing-In: Coordinate layout and installation of electrified door hardware with connections to power supplies and building safety and security systems.

1.07 WARRANTY

A. Manufacturer's standard form in which manufacturer agrees to repair or replace components of door hardware that fail in materials or workmanship within published warranty period.

1. Warranty does not cover damage or faulty operation due to improper installation, improper use or abuse.
2. Warranty Period: Beginning from date of Substantial Completion, for durations indicated in manufacturer's published listings.
   a. Mechanical Warranty
      1) Locks
         a) Schlage ND Series: 10 years
      2) Exit Devices
         a) Von Duprin: 10 years
      3) Closers
         a) LCN 4000 Series: 30 years
      4) Automatic Operators
         a) LCN: 2 years
   b. Electrical Warranty
      1) Locks
         a) Schlage: 3 years
      2) Exit Devices
         a) Von Duprin: 3 years

1.08 MAINTENANCE

A. Furnish complete set of special tools required for maintenance and adjustment of hardware, including changing of cylinders.

B. Turn over unused materials to Owner for maintenance purposes.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

A. The Owner requires use of certain products for their unique characteristics and project suitability to ensure continuity of existing and future performance and maintenance standards. After investigating available product offerings, the Awarding Authority has elected to prepare proprietary specifications. These products are specified with the notation: "No Substitute."

1. Where "No Substitute" is noted, submittals and substitution requests for other products will not be considered.

B. Approval of alternate manufacturers and/or products other than those listed as "Scheduled Manufacturer" or "Acceptable Manufacturers" in the individual article for the product category are only to be considered by official substitution request in accordance with section 01 25 00.

C. Approval of products from manufacturers indicated in "Acceptable Manufacturers" is contingent upon those products providing all functions and features and meeting all requirements of scheduled manufacturer's product.

D. Where specified hardware is not adaptable to finished shape or size of members requiring hardware, furnish suitable types having same operation and quality as type specified, subject to Architect's approval.

2.02 MATERIALS

A. Fabrication

1. Provide door hardware manufactured to comply with published templates generally prepared for machine, wood, and sheet metal screws. provide screws according to manufacturer’s recognized installation standards for application intended.
2. Finish exposed screws to match hardware finish, or, if exposed in surfaces of other work, to match finish of this other work including prepared for paint surfaces to receive painted finish.
3. Provide concealed fasteners wherever possible for hardware units exposed when door is closed. Coordinate with “Metal Doors and Frames”, “Flush Wood Doors”, “Stile and Rail Wood Doors” to ensure proper reinforcements. Advise the Architect where visible fasteners, such as thru bolts, are required.

B. Provide screws, bolts, expansion shields, drop plates and other devices necessary for hardware installation.

1. Where fasteners are exposed to view: Finish to match adjacent door hardware material.

C. Cable and Connectors:

1. Where scheduled in the hardware sets, provide each item of electrified hardware and wire harnesses with number and gage of wires enough to accommodate electric function of specified hardware.
2. Provide Molex connectors that plug directly into connectors from harnesses, electric locking and power transfer devices.
3. Provide through-door wire harness for each electrified locking device installed in a door and wire harness for each electrified hinge, electrified continuous hinge, electrified pivot, and electric power transfer for connection to power supplies.

2.03 HINGES

A. Manufacturers and Products:

1. Scheduled Manufacturer and Product:
   a. Ives 5BB series

B. Requirements:

1. Provide hinges conforming to ANSI/BHMA A156.1.
2. Provide five knuckle, ball bearing hinges.
3. 1-3/4 inch (44 mm) thick doors, up to and including 36 inches (914 mm) wide:
   a. Exterior: Standard weight, bronze or stainless steel, 4-1/2 inches (114 mm) high
   b. Interior: Standard weight, steel, 4-1/2 inches (114 mm) high

4. 1-3/4 inch (44 mm) thick doors over 36 inches (914 mm) wide:
   a. Exterior: Heavy weight, bronze/stainless steel, 5 inches (127 mm) high
   b. Interior: Heavy weight, steel, 5 inches (127 mm) high

5. 2 inches or thicker doors:
   a. Exterior: Heavy weight, bronze or stainless steel, 5 inches (127 mm) high
   b. Interior: Heavy weight, steel, 5 inches (127 mm) high

6. Adjust hinge width for door, frame, and wall conditions to allow proper degree of opening.
7. Provide three hinges per door leaf for doors 90 inches (2286 mm) or less in height, and one additional hinge for each 30 inches (762 mm) of additional door height.
8. Hinge Pins: Except as otherwise indicated, provide hinge pins as follows:
   a. Steel Hinges: Steel pins
   b. Non-Ferrous Hinges: Stainless steel pins
   c. Out-Swinging Exterior Doors: Non-removable pins
   d. Out-Swinging Interior Lockable Doors: Non-removable pins
   e. Interior Non-lockable Doors: Non-rising pins

9. Provide hinges with electrified options as scheduled in the hardware sets. Provide with number and gage of wires enough to accommodate electric function of specified hardware. Locate electric hinge at second hinge from bottom or nearest to electrified locking component. Provide mortar guard for each electrified hinge specified.

2.04 CONTINUOUS HINGES

A. Manufacturers:

1. Scheduled Manufacturer:
   a. Ives

B. Requirements:

1. Provide aluminum geared continuous hinges conforming to ANSI/BHMA A156.26, Grade 1.
2. Provide aluminum geared continuous hinges, where specified in the hardware sets, fabricated from 6063-T6 aluminum.
3. Provide split nylon bearings at each hinge knuckle for quiet, smooth, self-lubricating operation.
4. Provide hinges capable of supporting door weights up to 450 pounds, and successfully tested for 1,500,000 cycles.
5. On fire-rated doors, provide aluminum geared continuous hinges classified for use on rated doors by testing agency acceptable to authority having jurisdiction.
6. Provide aluminum geared continuous hinges with electrified option scheduled in the hardware sets. Provide with number and gage of wires enough to accommodate electric function of specified hardware.
7. Provide hinges 1 inch (25 mm) shorter in length than nominal height of door, unless otherwise noted or door details require shorter length and with symmetrical hole pattern.

2.05 ELECTRIC POWER TRANSFER

A. Manufacturers:

1. Scheduled Manufacturer and Product:
   a. Von Duprin EPT-10

2. Acceptable Manufacturers and Products:
   a. No Substitute

B. Requirements:

1. Provide power transfer with electrified options as scheduled in the hardware sets. Provide with number and gage of wires enough to accommodate electric function of specified hardware.
2. Locate electric power transfer per manufacturer's template and UL requirements, unless interference with operation of door or other hardware items.

2.06 FLUSH BOLTS

A. Manufacturers:

1. Scheduled Manufacturer:
   a. Ives

2. Acceptable Manufacturers:
   a. Rockwood
   b. Trimco

B. Requirements:

1. Provide automatic, constant latching, and manual flush bolts with forged bronze or stainless-steel face plates, extruded brass levers, and with wrought brass guides and strikes. Provide 12 inch (305 mm) steel or brass rods at doors up to 90 inches (2286 mm) in height. For doors over 90 inches (2286 mm) in height increase top rods by 6 inches (152 mm) for each additional 6 inches (152 mm) of door height. Provide dust-proof strikes at each bottom flush bolt.

2.07 CYLINDRICAL LOCKS – GRADE 1

A. Manufacturers and Products:

1. Scheduled Manufacturer and Product:
   a. Schlage ND series

2. Acceptable Manufacturers and Products:
   a. No Substitute

B. Requirements:

1. Provide cylindrical locks conforming to ANSI/BHMA A156.2 Series 4000, Grade 1, and UL Listed for 3-hour fire doors.
2. Indicators: Where specified, provide escutcheon with lock status indicator window on top of lockset rose:
   a. Escutcheon height (including rose) 6.05 inches high by 3.68 inches wide.
   b. Indicator window measuring a minimum 3.52-inch by .60 inch with 1.92 square-inches of front facing viewing area and 180-degree visibility with a total of .236 square-inches of total viewable area.
   c. Provide snap-in serviceable window to prevent tampering. Lock must function if indicator is compromised.
   d. Provide messages color-coded with full text and symbol, as scheduled, for easy visibility.
   e. Unlocked and Unoccupied message will display on white background, and Locked and Occupied message will display on red background.
3. Cylinders: Refer to "KEYING" article, herein.
4. Provide locks with standard 2-3/4 inches (70 mm) backset, unless noted otherwise, with 1/2-inch latch throw. Provide proper latch throw for UL listing at pairs.
5. Provide locksets with separate anti-rotation thru-bolts, and no exposed screws.
6. Provide independently operating levers with two external return spring cassettes mounted under roses to prevent lever sag.
7. Provide standard ASA strikes unless extended lip strikes are necessary to protect trim.
8. Provide electrified options as scheduled in the hardware sets.
9. Lever Trim: Solid cast levers without plastic inserts and wrought roses on both sides.
   a. Vandlgard: Provide levers with vandal resistant technology for use at heavy traffic or abusive applications.
   b. Lever Design: RHODES (RHO)

2.08 EXIT DEVICES

A. Manufacturers and Products:

1. Scheduled Manufacturer and Product:
   a. Von Duprin 98/35A series

2. Acceptable Manufacturers and Products:
   a. No Substitute

B. Requirements:

1. Provide exit devices tested to ANSI/BHMA A156.3 Grade 1 and UL listed for Panic Exit or Fire Exit Hardware.
2. Cylinders: Refer to "KEYING" article, herein.
3. Provide smooth touchpad type exit devices, fabricated of brass, bronze, stainless steel, or aluminum, plated to standard architectural finishes to match balance of door hardware.
4. Touchpad must extend a minimum of one half of door width. No plastic inserts are allowed in touchpads.
5. Provide exit devices with deadlatching feature for security and for future addition of alarm kits and/or other electrified requirements.
6. Provide exit devices with weather resistant components that can withstand harsh conditions of various climates and corrosive cleaners used in outdoor pool environments.
7. Provide flush end caps for exit devices.
8. Provide exit devices with manufacturer's approved strikes.
9. Provide exit devices cut to door width and height. Install exit devices at height recommended by exit device manufacturer, allowable by governing building codes, and approved by Architect.
10. Mount mechanism case flush on face of doors or provide spacers to fill gaps behind devices. Where glass trim or molding projects off face of door, provide glass bead kits.
11. Provide cylinder or hex-key dogging as specified at non fire-rated openings.
12. Removable Mullions: 2 inches (51 mm) x 3 inches (76 mm) steel tube. Where scheduled as keyed removable mullion, provide type that can be removed by use of a keyed cylinder, which is self-locking when re-installed.
13. Provide factory drilled weep holes for exit devices used in full exterior application, highly corrosive areas, and where noted in hardware sets.
14. Provide electrified options as scheduled.
15. Top latch mounting: double- or single-tab mount for steel doors, face mount for aluminum doors eliminating requirement of tabs, and double tab mount for wood doors.
16. Provide exit devices with optional trim designs to match other lever and pull designs used on the project.
17. Special Options:
    a. SI
       1) Provide dogging indicators for visible indication of dogging status.
    b. XP
       1) Rim Exit Devices: provide devices with non-tapered smart latchbolt with 90° latchbolt to strike engagement under stress and Static Load Resistance of 2000 pounds.
    c. QM
       1) Rim Exit Devices: provide devices with damper-controlled re-latching to reduce operational noise. Where lever trim is specified, provide damper controlled lever return.
    d. HH
       1) Provide wind and impact rated hurricane exit devices and mullions certified to comply with Florida Building Code (FBC) TAS 201, 202, 203.
    e. HW
       1) Provide wind rated hurricane exit devices and mullions certified to comply with ANSI-ASTM E330.
    f. CX

1) Provide delayed egress devices, where scheduled, that are UL 294 listed, meet National Fire Protection Association (NFPA) and International Building Code (IBC) governing delayed egress, and/or other local and national fire codes acceptable to authority having jurisdiction as required.
   a) Provide non-handed and field sizable device with 3/4 (19mm) throw deadlocking latch bolt. Device incorporates an internal RX switch that detects attempt to exit from applying less than 15lbs to the push pad, which causes this switch to start an irreversible alarm cycle. Key switch in device is capable of arming, disarming, or resetting the device; and indicator lamp determines status of the device.
   b) Provide devices capable of standard 15 second release delay and indefinite release delay as required by code, when tied into fire alarm system will release immediately when an alarm condition exists.
   c) Provide devices with all control inputs – door position input, external inhibit input, fire alarm input; auxiliary locking; nuisance alarm and internal horn; and, remote signaling output self-contained in the device assembly.

g. CVC
   1) Provide cable-actuated concealed vertical latch system in two-point for non-rated or fire rated wood doors up to a 90 minute rating and less bottom latch (LBL) configuration for non-rated or fire rated wood doors up to 20 minute rating. Vertical rods not permitted.
      a) Cable: Stainless steel with abrasive resistant coating. Conduit and core wire ends snap into latch and center slides without use of tools.
      b) Wood Door Prep: Maximum 1 inch x 1.1875 inch x 3.875 inches top latch pocket and 1 inch x 1.1875 inch x 5 inches bottom latch pocket which does not require the use of a metal wrap or edge for non-rated or fire rated wood doors up to a 45 minute rating.
      c) Latchbolts and Blocking Cams: Manufactured from sintered metal low carbon copper- infiltrated steel, with molybdenum disulfide low friction coating.
      d) Top Latchbolt: Minimum 0.38 inch (10 mm) and greater than 90-degree engagement with strike to prevent door and frame separation under high static load.
      e) Bottom Latchbolt: Minimum of 0.44-inch (11 mm) engagement with strike.
      f) Product Cycle Life: 1,000,000 cycles.
      g) Latch Operation: Top and bottom latch operate independently of each other. Top latch fully engages top strike even when bottom latch is compromised. Separate trigger mechanisms not permitted.
      h) Latch release does not require separate trigger mechanism.
      i) Cable and latching system characteristics:
         i. Installed independently of exit device installation, and capable of functioning on door prior to device and trim installation.
         ii. Connected to exit device at single point in steel and aluminum doors, and two points for top and bottom latches in wood doors.
         iii. Bottom latch height adjusted, from single point for steel and aluminum doors and two points for wood doors, after system is installed and connected to exit device, while door is hanging
         iv. Bottom latch position altered up and down minimum of 2 inches (51 mm) in steel and aluminum doors without additional adjustment. Bottom latch deadlocks in every adjustment position in wood doors.
         v. Top and bottom latches in steel and aluminum doors and top latch in wood doors may be removed while door is hanging.

2.09 ACCESS CONTROL READER

A. Manufacturers and Products:

1. Scheduled Manufacturer and Product:
   a. Schlage MT Series

B. Requirements:

1. Provide access control card readers manufactured by a global company who is a recognized leader in the production of access control devices. Card reader manufactured for non-access control applications are not acceptable
2. Provide multi-technology contactless readers complying with ISO 14443.
3. Provide access control card readers capable of reading the following technologies:
   a. CSN - DESFire® CSN, HID iCLASS® CSN, Inside Contactless PicoTag® CSN, ST Microelectronics® CSN, Texas Instruments Tag-It®, CSN, Phillips I-Code® CSN
   b. 125 KHz proximity - Schlage® Proximity, HID® Proximity, GE/CASI® Proximity, AWID® Proximity, LenelProx®
   c. 13.56 MHz Smart card - Schlage smart cards using MIFARE Classic® EV1, Schlage smart cards using MIFARE Plus®, Schlage smart cards using MIFARE® DESFire® EV1, Schlage smart cards using MIFARE® DESFire® EV2/EV3

2.10 POWER SUPPLIES

A. Manufacturers and Products:

1. Scheduled Manufacturer and Product:
   a. Schlage/Von Duprin PS900 Series

2. Acceptable Manufacturers and Products:
   a. No Substitute

B. Requirements:

1. Provide power supplies approved by manufacturer of supplied electrified hardware.
2. Provide appropriate quantity of power supplies necessary for proper operation of electrified locking components as recommended by manufacturer of electrified locking components with consideration for each electrified component using power supply, location of power supply, and approved wiring diagrams. Locate power supplies as directed by Architect.
3. Provide regulated and filtered 24 VDC power supply, and UL class 2 listed.
4. Provide power supplies with the following features:
   a. 12/24 VDC Output, field selectable.
   b. Class 2 Rated power limited output.
   c. Universal 120-240 VAC input.
   d. Low voltage DC, regulated and filtered.
   e. Polarized connector for distribution boards.
   f. Fused primary input.
   g. AC input and DC output monitoring circuit w/LED indicators.
   h. Cover mounted AC Input indication.
   i. Tested and certified to meet UL294.
   j. NEMA 1 enclosure.
   k. Hinged cover w/lock down screws.
   l. High voltage protective cover.

2.11 CYLINDERS

A. Manufacturers:

1. Scheduled Manufacturer and Product: **VERIFY WITH OWNER**
   a. FSIC Schlage

2. Acceptable Manufacturers and Products:
   a. No Substitute

B. Requirements:

1. Provide cylinders/cores to match Owner's existing key system, compliant with ANSI/BHMA A156.5; latest revision; cylinder face finished to match lockset, manufacturer's series as indicated. Refer to "KEYING" article, herein.

2.12 KEYING

A. Scheduled System: **VERIFY WITH OWNER**

1. New factory registered system:
   a. Provide a factory registered keying system, complying with guidelines in ANSI/BHMA A156.28, incorporating decisions made at keying conference.

2. Existing factory registered system:
   a. Provide cylinders/cores keyed into Owner's existing factory registered keying system. Comply with guidelines in ANSI/BHMA A156.28, incorporating decisions made at keying conference.

3. Existing non-factory registered system:
   a. Provide cylinders/cores keyed into Owner's existing keying system managed by Owner's locksmith, complying with guidelines in ANSI/BHMA A156.28, incorporating decisions made at keying conference. Contact:
      1) Firm Name:
      2) Contact Person:
      3) Telephone:

B. Requirements:

1. Construction Keying:
   a. Temporary Construction Cylinder Keying.
      1) Provide construction cores that permit voiding construction keys without cylinder removal, furnished in accordance with the following requirements.
         a) Split Key or Lost Ball Construction Keying System.
         b) 3 construction control keys, and extractor tools or keys as required to void construction keying.
         c) 12 construction change (day) keys.
      2) Owner or Owner's Representative will void operation of temporary construction keys.
   b. Replaceable Construction Cores.
      1) Provide temporary construction cores replaceable by permanent cores, furnished in accordance with the following requirements.
         a) 3 construction control keys
         b) 12 construction change (day) keys.
      2) Owner or Owner's Representative will replace temporary construction cores with permanent cores.

2. Permanent Keying:
   a. Provide permanent cylinders/cores keyed by the manufacturer according to the following key system.
      1) Master Keying system as directed by the Owner.
   b. Forward bitting list and keys separately from cylinders, by means as directed by Owner. Failure to comply with forwarding requirements will be cause for replacement of cylinders/cores involved at no additional cost to Owner.
   c. Provide keys with the following features:
      1) Material: Nickel silver; minimum thickness of .107-inch (2.3mm)
      2) Patent Protection: Keys and blanks protected by one or more utility patent(s).
      3) Geographically Exclusive: Where High Security or Security cylinders/cores are indicated, provide nationwide, geographically exclusive key system complying with the following restrictions.
   d. Identification:
      1) Mark permanent cylinders/cores and keys with applicable blind code for identification. Do not provide blind code marks with actual key cuts.
      2) Identification stamping provisions must be approved by the Architect and Owner.
      3) Stamp cylinders/cores and keys with Owner's unique key system facility code as established by the manufacturer; key symbol and embossed or stamped with "DO NOT DUPLICATE" along with the "PATENTED" or patent number to enforce the patent protection.
      4) Failure to comply with stamping requirements will be cause for replacement of keys involved at no additional cost to Owner.
      5) Forward permanent cylinders/cores to Owner, separately from keys, by means as directed by Owner.
   e. Quantity: Furnish in the following quantities.
      1) Permanent Control Keys: 3.
      2) Master Keys: 6.
      3) Change (Day) Keys: 3 per cylinder/core that is keyed differently
      4) Key Blanks: Quantity as determined in the keying meeting.

2.13 KEY CONTROL SYSTEM

A. Manufacturers:

1. Scheduled Manufacturer:
   a. Telkee

2. Acceptable Manufacturers:
   a. HPC
   b. Lund

B. Requirements:

1. Provide key control system, including envelopes, labels, tags with self-locking key clips, receipt forms, 3-way visible card index, temporary markers, permanent markers, and standard metal cabinet, all as recommended by system manufacturer, with capacity for 150% of number of locks required for Project.
   a. Provide complete cross index system set up by hardware supplier, and place keys on markers and hooks in cabinet as determined by final key schedule.
   b. Provide hinged-panel type cabinet for wall mounting.

2.14 DOOR CLOSERS

A. Manufacturers and Products:

1. Scheduled Manufacturer and Product:
   a. LCN 4040XP series

2. Acceptable Manufacturers and Products:
   a. No Substitute

B. Requirements:

1. Provide door closers conforming to ANSI/BHMA A156.4 Grade 1 requirements by BHMA certified independent testing laboratory. ISO 9000 certify closers. Stamp units with date of manufacture code.
2. Provide door closers with fully hydraulic, full rack and pinion action with high strength cast iron cylinder, and full complement bearings at shaft.
3. Cylinder Body: 1-1/2-inch (38 mm) diameter piston with 5/8-inch (16 mm) diameter double heat-treated pinion journal. QR code with a direct link to maintenance instructions.
4. Hydraulic Fluid: Fireproof, passing requirements of UL10C, and requiring no seasonal closer adjustment for temperatures ranging from 120 degrees F to -30 degrees F.
5. Spring Power: Continuously adjustable over full range of closer sizes, and providing reduced opening force as required by accessibility codes and standards. Provide snap-on cover clip, with plastic covers, that secures cover to spring tube.
6. Hydraulic Regulation: By tamper-proof, non-critical valves, with separate adjustment for latch speed, general speed, and backcheck. Provide graphically labelled instructions on the closer body adjacent to each adjustment valve. Provide positive stop on reg valve that prevents reg screw from being backed out.
7. Provide closers with solid forged steel main arms and factory assembled heavy-duty forged forearms for parallel arm closers.
8. Pressure Relief Valve (PRV) Technology: Not permitted.
9. Finish for Closer Cylinders, Arms, Adapter Plates, and Metal Covers: Powder coating finish which has been certified to exceed 100 hours salt spray testing as described in ANSI Standard A156.4 and ASTM B117, or has special rust inhibitor (SRI).
10. Provide special templates, drop plates, mounting brackets, or adapters for arms as required for details, overhead stops, and other door hardware items interfering with closer mounting.
11. Closers shall be capable of being upgraded by adding modular mechanical or electronic components in the field.

2.15 ELECTRO-HYDRAULIC AUTOMATIC OPERATORS

A. Manufacturers and Products:

1. Scheduled Manufacturer and Product:
   a. LCN 4600 series

2. Acceptable Manufacturers and Products:
   a. No Substitute

B. Requirements:

1. Provide low energy automatic operator units with hydraulic closer complying with ANSI/BHMA A156.19.
2. Hydraulic Fluid: Fireproof, passing requirements of UL10C, and requiring no seasonal closer adjustment for temperatures ranging from 120 degrees F to -30 degrees F.

3. Provide units with conventional door closer opening and closing forces unless power operator motor is activated. Provide door closer assembly with adjustable spring size, back-check, and opening and closing speed adjustment valves to control door
4. Provide units with on/off switch for manual operation, motor start up delay, vestibule interface delay, electric lock delay, and door hold open delay.
5. Provide drop plates, brackets, and adapters for arms as required for details.
6. Provide actuator switches and receivers for operation as specified.
7. Provide weather-resistant actuators at exterior applications.
8. Provide key switches with LED's, recommended and approved by manufacturer of automatic operator as required for function described in operation description of hardware group below. Cylinders: Refer to "KEYING" article, herein.
9. Provide complete assemblies of controls, switches, power supplies, relays, and parts/material recommended and approved by manufacturer of automatic operator for each individual leaf. Actuators control both doors simultaneously at pairs. Sequence operation of exterior and vestibule doors with automatic operators to allow ingress or egress through both sets of openings as directed by Architect. Locate actuators, key switches, and other controls as directed by Architect.
10. Provide units with vestibule inputs that allow sequencing operation of two units, and SPDT relay for interfacing with latching or locking devices.

2.16 DOOR TRIM

A. Manufacturers:

1. Scheduled Manufacturer:
   a. Ives

2. Acceptable Manufacturers:
   a. Trimco
   b. Rockwood

B. Requirements:

1. Provide push plates, push bars, pull plates, pulls, and hands-free reversible door pulls with diameter and length as scheduled.

2.17 PROTECTION PLATES

A. Manufacturers:

1. Scheduled Manufacturer:
   a. Ives

2. Acceptable Manufacturers:
   a. Trimco
   b. Rockwood

B. Requirements:

1. Provide protection plates with a minimum of 0.050 inch (1 mm) thick, beveled four edges as scheduled. Furnish with sheet metal or wood screws, finished to match plates.
2. Sizes plates 2 inches (51 mm) less width of door on single doors, pairs of doors with a mullion, and doors with edge guards. Size plates 1 inch (25 mm) less width of door on pairs without a mullion or edge guards.

3. At fire rated doors, provide protection plates over 16 inches high with UL label.

2.18 OVERHEAD STOPS AND OVERHEAD STOP/HOLDERS

A. Manufacturers:

1. Scheduled Manufacturers:
   a. Glynn-Johnson

2. Acceptable Manufacturers:
   a. No Substitute

B. Requirements:

1. Provide overhead stop at any door where conditions do not allow for a wall stop or floor stop presents tripping hazard.

2.19 DOOR STOPS AND HOLDERS

A. Manufacturers:

1. Scheduled Manufacturer:
   a. Ives

2. Acceptable Manufacturers:
   a. Trimco
   b. Rockwood

B. Provide door stops at each door leaf:

1. Provide wall stops wherever possible. Provide concave type where lockset has a push button of thumbturn.
2. Where a wall stop cannot be used, provide universal floor stops.
3. Where wall or floor stop cannot be used, provide overhead stop.
4. Provide roller bumper where doors open into each other and overhead stop cannot be used.

2.20 THRESHOLDS, SEALS, DOOR SWEEPS, AUTOMATIC DOOR BOTTOMS, AND GASKETING

A. Manufacturers:

1. Scheduled Manufacturer:
   a. Zero International

2. Acceptable Manufacturers:
   a. National Guard
   b. Pemko

B. Requirements:

1. Provide thresholds, weather-stripping, and gasketing systems as specified and per architectural details. Match finish of other items.

2. Smoke- and Draft-Control Door Assemblies: Where smoke- and draft-control door assemblies are required, provide door hardware that meets requirements of assemblies tested according to UL 1784 and installed in compliance with NFPA 105.
3. Provide door sweeps, seals, astragals, and auto door bottoms only of type where resilient or flexible seal strip is easily replaceable and readily available.
4. Size thresholds 1/2 inch (13 mm) high by 5 inches (127 mm) wide by door width unless otherwise specified in the hardware sets or detailed in the drawings.

2.21 SILENCERS

A. Manufacturers:

1. Scheduled Manufacturer:
   a. Ives

2. Acceptable Manufacturers:
   a. Rockwood
   b. Trimco

B. Requirements:

1. Provide "push-in" type silencers for hollow metal or wood frames.
2. Provide one silencer per 30 inches (762 mm) of height on each single frame, and two for each pair frame.
3. Omit where gasketing is specified.

2.22 DOOR POSITION SWITCHES

A. Manufacturers:

1. Scheduled Manufacturer:
   a. Schlage

B. Requirements:

1. Provide recessed or surface mounted type door position switches as specified.
2. Coordinate door and frame preparations with door and frame suppliers. If switches are being used with magnetic locking device, provide minimum of 4 inches (102 mm) between switch and magnetic locking device.

2.23 FINISHES

A. FINISH: BHMA 626/652 (US26D); EXCEPT:

1. Hinges at Exterior Doors: BHMA 630 (US32D)
2. Aluminum Geared Continuous Hinges: BHMA 628 (US28)
3. Push Plates, Pulls, and Push Bars: BHMA 630 (US32D)
4. Protection Plates: BHMA 630 (US32D)
5. Overhead Stops and Holders: BHMA 630 (US32D)
6. Door Closers: Powder Coat to Match
7. Wall Stops: BHMA 630 (US32D)
8. Latch Protectors: BHMA 630 (US32D)
9. Weatherstripping: Clear Anodized Aluminum

10. Thresholds: Mill Finish Aluminum

PART 3 - EXECUTION

3.01 EXAMINATION

A. Prior to installation of hardware, examine doors and frames, with Installer present, for compliance with requirements for installation tolerances, labeled fire-rated door assembly construction, wall and floor construction, and other conditions affecting performance. Verify doors, frames, and walls have been properly reinforced for hardware installation.

B. Examine roughing-in for electrical power systems to verify actual locations of wiring connections before electrified door hardware installation.

C. Submit a list of deficiencies in writing and proceed with installation only after unsatisfactory conditions have been corrected.

3.02 INSTALLATION

A. Mount door hardware units at heights to comply with the following, unless otherwise indicated or required to comply with governing regulations.

1. Standard Steel Doors and Frames: ANSI/SDI A250.8.
2. Custom Steel Doors and Frames: HMMA 831.
3. Interior Architectural Wood Flush Doors: ANSI/WDMA I.S. 1A
4. Installation Guide for Doors and Hardware: DHI TDH-007-20

B. Install door hardware in accordance with NFPA 80, NFPA 101 and provide post-install inspection, testing as specified in section 1.03.E unless otherwise required to comply with governing regulations.

C. Install each hardware item in compliance with manufacturer's instructions and recommendations, using only fasteners provided by manufacturer.

D. Do not install surface mounted items until finishes have been completed on substrate. Protect all installed hardware during painting.

E. Set units level, plumb and true to line and location. Adjust and reinforce attachment substrate as necessary for proper installation and operation.

F. Drill and countersink units that are not factory prepared for anchorage fasteners. Space fasteners and anchors according to industry standards.

G. Install operating parts so they move freely and smoothly without binding, sticking, or excessive clearance.

H. Hinges: Install types and in quantities indicated in door hardware schedule but not fewer than quantity recommended by manufacturer for application indicated.

I. Lock Cylinders:

1. Install construction cores to secure building and areas during construction period.

2. Replace construction cores with permanent cores as indicated in keying section.
3. Furnish permanent cores to Owner for installation.

J. Wiring: Coordinate with Division 26, ELECTRICAL and Division 28 ELECTRONIC SAFETY AND SECURITY sections for:

1. Conduit, junction boxes and wire pulls.
2. Connections to and from power supplies to electrified hardware.
3. Connections to fire/smoke alarm system and smoke evacuation system.
4. Connection of wire to door position switches and wire runs to central room or area, as directed by Architect.
5. Connections to panel interface modules, controllers, and gateways.
6. Testing and labeling wires with Architect's opening number.

K. Key Control System: Tag keys and place them on markers and hooks in key control system cabinet, as determined by final keying schedule.

L. Continuous Hinges: Re-locate the door and frame fire rating labels where they will remain visible so that the hinge does not cover the label once installed.

M. Door Closers & Auto Operators: Mount closers/operators on room side of corridor doors, inside of exterior doors, and stair side of stairway doors from corridors. Mount closers/operators so they are not visible in corridors, lobbies and other public spaces unless approved by Architect.

N. Overhead Stops/Holders: Mount overhead stops/holders on room side of corridor doors, inside of exterior doors, and stair side of stairway doors.

O. Power Supplies: Locate power supplies as indicated or, if not indicated, above accessible ceilings or in equipment room, or alternate location as directed by Architect.

P. Thresholds: Set thresholds in full bed of sealant complying with requirements specified in Division 07 Section "Joint Sealants."

Q. Stops: Provide floor stops for doors unless wall or other type stops are indicated in door hardware schedule. Do not mount floor stops where they may impede traffic or present tripping hazard.

R. Perimeter Gasketing: Apply to head and jamb, forming seal between door and frame.

S. Meeting Stile Gasketing: Fasten to meeting stiles, forming seal when doors are closed.

T. Door Bottoms and Sweeps: Apply to bottom of door, forming seal with threshold when door is closed.

3.03 ADJUSTING

A. Initial Adjustment: Adjust and check each operating item of door hardware and each door to ensure proper operation or function of every unit. Replace units that cannot be adjusted to operate as intended. Adjust door control devices to compensate for final operation of heating and ventilating equipment and to comply with referenced accessibility requirements.

1. Spring Hinges: Adjust to achieve positive latching when door can close freely from an open position of 30 degrees.

2. Electric Strikes: Adjust horizontal and vertical alignment of keeper to properly engage lock bolt.
3. Door Closers: Adjust sweep period to comply with accessibility requirements and requirements of authorities having jurisdiction.

B. Occupancy Adjustment: Approximately three to six months after date of Substantial Completion, examine and readjust each item of door hardware, including adjusting operating forces, as necessary to ensure function of doors and door hardware.

3.04 CLEANING AND PROTECTION

A. Clean adjacent surfaces soiled by door hardware installation.

B. Clean operating items per manufacturer's instructions to restore proper function and finish.

C. Provide final protection and maintain conditions that ensure door hardware is without damage or deterioration at time of Substantial Completion.

3.05 DOOR HARDWARE SCHEDULE

A. The intent of the hardware specification is to specify the hardware for interior and exterior doors, and to establish a type, continuity, and standard of quality. However, it is the door hardware supplier's responsibility to thoroughly review existing conditions, schedules, specifications, drawings, and other Contract Documents to verify the suitability of the hardware specified.

B. Discrepancies, conflicting hardware, and missing items are to be brought to the attention of the architect with corrections made prior to the bidding process. Omitted items not included in a hardware set should be scheduled with the appropriate additional hardware required for proper application.

C. Hardware items are referenced in the following hardware schedule. Refer to the above specifications for special features, options, cylinders/keying, and other requirements.

D. Hardware Sets:

124661 OPT0352560 Version 1

Legend:
Link to catalog cut sheet
Electrified Opening

Hardware Group No. 01

For use on Door #(s):

A116	A117	A118	A119	A122	A123
A124	A183	A209	A210	A211	A212
A213	A214	A215	A216	B115	B135
B137	B139	B140	B219	B241A	C235A
C238A	C239A				

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
3	EA	HINGE	5BB1HW 4.5 X 4.5 NRP		652	IVE
1	EA	CLASSROOM SECURITY W/ INSIDE INDICATOR	ND78TD RHO IS-CRS		626	SCH
2	EA	PERMANENT FSIC CORE	23-030 EV29 T		626	SCH
1	EA	SURFACE CLOSER	4040XP HEDA		689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS		630	IVE
1	EA	WALL STOP	WS406/407CCV		630	IVE
1	EA	GASKETING	488SBK PSA @ HEAD & JAMBS		BK	ZER

Hardware Group No. 02

For use on Door #(s):

B207	B208	B220	C231B	C231C

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
3	EA	HINGE	5BB1HW 4.5 X 4.5 NRP		652	IVE
1	EA	STOREROOM LOCK	ND80TD RHO		626	SCH
1	EA	PERMANENT FSIC CORE	23-030 EV29 T		626	SCH
1	EA	SURFACE CLOSER	4040XP HEDA		689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS		630	IVE
1	EA	WALL STOP	WS406/407CCV		630	IVE
3	EA	SILENCER	SR64		GRY	IVE

Hardware Group No. 03

For use on Door #(s):
B144

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
1	EA	CONT. HINGE	027XY / 112XY (EPT AS REQUIRED)		628	IVE
1	EA	PUSH PLATE	8200 6" X 16"		630	IVE
1	EA	PULL PLATE	8303 10" 6" X 16"		630	IVE
1	EA	SURFACE CLOSER	4040XP EDA		689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS		630	IVE
1	EA	WALL STOP	WS406/407CCV		630	IVE
3	EA	SILENCER	SR64		GRY	IVE

Hardware Group No. 04

For use on Door #(s):
B132 B206

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
3	EA	HINGE	5BB1HW 4.5 X 4.5 NRP		652	IVE
1	EA	TIME OUT LOCK	ND45 RHO XN12-317		626	SCH
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS		630	IVE
1	EA	WALL STOP	WS406/407CCV		630	IVE
3	EA	SILENCER	SR64		GRY	IVE

Hardware Group No. 05

For use on Door #(s):

B103	B104	B105	B106	B108B	B109A
B109B	B110	B134	B226	C254	

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
3	EA	HINGE	5BB1HW 4.5 X 4.5 NRP		652	IVE
1	EA	ENTRANCE LOCK	ND53TD RHO		626	SCH
1	EA	PERMANENT FSIC CORE	23-030 EV29 T		626	SCH
1	EA	SURFACE CLOSER	4040XP HEDA		689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS		630	IVE
1	EA	WALL STOP	WS406/407CCV		630	IVE
3	EA	SILENCER	SR64		GRY	IVE

Hardware Group No. 06

For use on Door #(s):
B108A B113A B114 B201 C232

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
3	EA	HINGE	5BB1HW 4.5 X 4.5 NRP		652	IVE
1	EA	STOREROOM LOCK	ND80TD RHO		626	SCH
1	EA	PERMANENT FSIC CORE	23-030 EV29 T		626	SCH
1	EA	ELECTRIC STRIKE	AS REQUIRED		630	ADA
1	EA	SURFACE CLOSER	4040XP EDA		689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS		630	IVE
1	EA	WALL STOP	WS406/407CCV		630	IVE
3	EA	SILENCER	SR64		GRY	IVE
1	EA	WIRE HARNESS	CON-XXXP (LENGTH AS REQUIRED) VERIFY LENGTH			SCH
1	EA	MULTITECH READER	MT11 / MT15 BY DIVISION 28.		BLK	SCE
1	EA	DOOR POSITION SWITCH	BY DIVISION 28.		628	SCE
1	EA	POWER / LOW VOLTAGE POWER	BY DIVISION 28.			VON

OPERATION:
DOOR IS NORMALLY LATCHED AND SECURED
PRESENTING VALID CREDENTIAL TEMPORARILY RELEASES STRIKE FOR ENTRY
FREE EGRESS AT ALL TIMES

Hardware Group No. 07

For use on Door #(s):
B138

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
1	EA	CONT. HINGE	027XY / 112XY (EPT AS REQUIRED)		628	IVE
1	EA	STOREROOM LOCK	ND80TD RHO		626	SCH
1	EA	PERMANENT FSIC CORE	23-030 EV29 T		626	SCH
1	EA	LOCK GUARD	LG14		630	IVE
1	EA	SURFACE CLOSER	4040XP SCUSH		689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS		630	IVE
1	EA	RAIN DRIP	142AA (AS REQ'D)		AA	ZER
1	SET	GASKETING	429 @ HEAD & JAMBS		AA	ZER
1	EA	DOOR SWEEP	39A		A	ZER
1	EA	THRESHOLD	655A - OR PER SILL DETAILS		A	ZER
1	EA	DOOR POSITION SWITCH	BY DIVISION 28.		628	SCE

Hardware Group No. 08

For use on Door #(s):
C256

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
3	EA	HINGE	5BB1HW 4.5 X 4.5 NRP		652	IVE
1	EA	PASSAGE SET	ND10S RHO		626	SCH
1	EA	SURFACE CLOSER	4040XP HEDA		689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS		630	IVE
1	EA	WALL STOP	WS406/407CCV		630	IVE
3	EA	SILENCER	SR64		GRY	IVE

Hardware Group No. 09

For use on Door #(s):
A121 A205 B145 B217

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
3	EA	HINGE	5BB1HW 4.5 X 4.5 NRP		652	IVE
1	EA	STOREROOM LOCK	ND80TD RHO		626	SCH
1	EA	PERMANENT FSIC CORE	23-030 EV29 T		626	SCH
1	EA	SURFACE CLOSER	4040XP EDA		689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS		630	IVE
1	EA	WALL STOP	WS406/407CCV		630	IVE
3	EA	SILENCER	SR64		GRY	IVE

Hardware Group No. 10

For use on Door #(s):
C230A

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
1	EA	CONT. HINGE	027XY / 112XY (EPT AS REQUIRED)		628	IVE
1	EA	PANIC HARDWARE	98-NL-SNB		626	VON
1	EA	FSIC RIM CYL. HOUSING	20-079		626	SCH
1	EA	PERMANENT FSIC CORE	23-030 EV29 T		626	SCH
1	EA	SURFACE CLOSER	4040XP EDA		689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS		630	IVE
1	EA	FLOOR STOP	FS18S		BLK	IVE
1	EA	RAIN DRIP	142AA (AS REQ'D)		AA	ZER
1	SET	GASKETING	429 @ HEAD & JAMBS		AA	ZER
1	EA	DOOR SWEEP	39A		A	ZER
1	EA	THRESHOLD	655A - OR PER SILL DETAILS		A	ZER
1	EA	DOOR POSITION SWITCH	BY DIVISION 28.		628	SCE

Hardware Group No. 11

For use on Door #(s):
B245 B246

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
3	EA	HINGE	5BB1HW 4.5 X 4.5 NRP		652	IVE
1	EA	CLASSROOM SECURITY W/ INSIDE INDICATOR	ND78TD RHO IS-CRS		626	SCH
2	EA	PERMANENT FSIC CORE	23-030 EV29 T		626	SCH
1	EA	SURFACE CLOSER	4040XP HEDA		689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS		630	IVE
1	EA	WALL STOP	WS406/407CCV		630	IVE
1	SET	GASKETING	870AA-S		AA	ZER
1	EA	DOOR BOTTOM	364AA		AA	ZER
1	EA	THRESHOLD	164A OR PER SILL DETAIL		A	ZER
1	EA	MOUNTING BRACKET	870SPB			ZER

Hardware Group No. 12

For use on Door #(s):

B107	B111	B112	B127	B129	B133
B222	B223	B242	C236	C237	C240
C255					

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
3	EA	HINGE	5BB1HW 4.5 X 4.5 NRP		652	IVE
1	EA	PRIVACY LOCK W/ OUTSIDE INDICATOR	ND40S RHO OS-OCC		626	SCH
1	EA	SURFACE CLOSER	4040XP EDA		689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS		630	IVE
1	EA	WALL STOP	WS406/407CCV		630	IVE
1	EA	GASKETING	488SBK PSA @ HEAD & JAMBS		BK	ZER

Hardware Group No. 13

For use on Door #(s):
B131 B243 C251 C253

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
1	EA	CONT. HINGE	027XY / 112XY (EPT AS REQUIRED)		628	IVE
1	EA	STOREROOM LOCK	ND80TD RHO		626	SCH
1	EA	PERMANENT FSIC CORE	23-030 EV29 T		626	SCH
1	EA	SURFACE CLOSER	4040XP EDA		689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS		630	IVE
1	EA	WALL STOP	WS406/407CCV		630	IVE
1	EA	GASKETING	488SBK PSA @ HEAD & JAMBS		BK	ZER

Hardware Group No. 14

For use on Door #(s):
C231D

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
1	EA	CONT. HINGE	027XY / 112XY (EPT AS REQUIRED)		628	IVE
1	EA	PANIC HARDWARE	98-NL-SNB		626	VON
1	EA	FSIC RIM CYL. HOUSING	20-079		626	SCH
1	EA	PERMANENT FSIC CORE	23-030 EV29 T		626	SCH
1	EA	ELECTRIC STRIKE	AS REQUIRED	✓	630	ADA
1	EA	SURFACE CLOSER	4040XP EDA		689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS		630	IVE
1	EA	FLOOR STOP	FS18S		BLK	IVE
1	EA	RAIN DRIP	142AA (AS REQ'D)		AA	ZER
1	SET	GASKETING	429 @ HEAD & JAMBS		AA	ZER
1	EA	DOOR SWEEP	39A		A	ZER
1	EA	THRESHOLD	655A - OR PER SILL DETAILS		A	ZER
1	EA	VIEWER	U698		626	IVE
1	EA	WIRE HARNESS	CON-XXXP (LENGTH AS REQUIRED) VERIFY LENGTH	✓		SCH
1	EA	MULTITECH READER	MT11 / MT15 BY DIVISION 28.	✓	BLK	SCE
1	EA	DOOR POSITION SWITCH	BY DIVISION 28.	✓	628	SCE
1	EA	POWER / LOW VOLTAGE POWER	BY DIVISION 28.	✓		VON

DOOR IS NORMALLY LOCKED. RESTRICTING ENTRY.
AUTHORIZED CREDENTIAL AT OUTSIDE CARD READER MOMENTARILY RELEASES ELECTRIC STRIKE TO ALLOW ENTRY OR BY KEY.
INSIDE TOUCHBAR ALWAYS ALLOWS EGRESS.

Hardware Group No. 15

For use on Door #(s):
C227B

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER			FINISH	MFR
1	EA	CONT. HINGE	027XY / 112XY (EPT AS REQUIRED)			628	IVE
1	EA	PANIC HARDWARE	98-NL-SNB			626	VON
1	EA	FSIC RIM CYL. HOUSING	20-079			626	SCH
1	EA	PERMANENT FSIC CORE	23-030 EV29 T			626	SCH
1	EA	ELECTRIC STRIKE	AS REQUIRED		✓	630	ADA
1	EA	SURFACE CLOSER	4040XP EDA			689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS			630	IVE
1	EA	FLOOR STOP	FS18S			BLK	IVE
1	EA	RAIN DRIP	142AA (AS REQ'D)			AA	ZER
1	SET	GASKETING	429 @ HEAD & JAMBS			AA	ZER
1	EA	DOOR SWEEP	39A			A	ZER
1	EA	THRESHOLD	655A - OR PER SILL DETAILS			A	ZER
1	EA	WIRE HARNESS	CON-XXXP (LENGTH AS REQUIRED) VERIFY LENGTH		✓		SCH
1	EA	MULTITECH READER	MT11 / MT15 BY DIVISION 28.		✓	BLK	SCE
1	EA	DOOR POSITION SWITCH	BY DIVISION 28.		✓	628	SCE
1	EA	POWER / LOW VOLTAGE POWER	BY DIVISION 28.		✓		VON

DOOR IS NORMALLY LOCKED. RESTRICTING ENTRY.
AUTHORIZED CREDENTIAL AT OUTSIDE CARD READER MOMENTARILY RELEASES ELECTRIC STRIKE TO ALLOW ENTRY OR BY KEY.
INSIDE TOUCHBAR ALWAYS ALLOWS EGRESS.

Hardware Group No. 16

For use on Door #(s):
B244

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
1	EA	CONT. HINGE	027XY / 112XY (EPT AS REQUIRED)		628	IVE
1	EA	STOREROOM LOCK	ND80TD RHO		626	SCH
1	EA	PERMANENT FSIC CORE	23-030 EV29 T		626	SCH
1	EA	SURFACE CLOSER	4040XP HEDA		689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS		630	IVE
1	EA	WALL STOP	WS406/407CCV		630	IVE
3	EA	SILENCER	SR64		GRY	IVE

Hardware Group No. 17

For use on Door #(s):
C227A

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
3	EA	HINGE	5BB1HW 4.5 X 4.5 NRP		652	IVE
1	EA	PANIC HARDWARE	98-L-NL-06-SNB		626	VON
1	EA	FSIC RIM CYL. HOUSING	20-079		626	SCH
1	EA	PERMANENT FSIC CORE	23-030 EV29 T		626	SCH
1	EA	SURFACE CLOSER	4040XP SCUSH		689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS		630	IVE
3	EA	SILENCER	SR64		GRY	IVE

Hardware Group No. 18

For use on Door #(s):
C228A

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
3	EA	HINGE	5BB1HW 4.5 X 4.5 NRP		652	IVE
1	EA	PASSAGE SET	ND10S RHO		626	SCH
1	EA	SURFACE CLOSER	4040XP EDA		689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS		630	IVE
1	EA	WALL STOP	WS406/407CCV		630	IVE
3	EA	SILENCER	SR64		GRY	IVE

Hardware Group No. 19

For use on Door #(s):
B126 B218 C225C C231A C233A C234

Provide each PR door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
6	EA	HINGE	5BB1HW 4.5 X 4.5 NRP		652	IVE
1	EA	CONST LATCHING BOLT	FB53		630	IVE
1	EA	STOREROOM LOCK	ND80TD RHO		626	SCH
1	EA	PERMANENT FSIC CORE	23-030 EV29 T		626	SCH
2	EA	SURFACE CLOSER	4040XP HEDA		689	LCN
2	EA	KICK PLATE	8400 10" X 1" LDW B-CS		630	IVE
2	EA	WALL STOP	WS406/407CCV		630	IVE
2	EA	SILENCER	SR64		GRY	IVE

Hardware Group No. 20

For use on Door #(s):
C225A

Provide each PR door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
2	EA	CONT. HINGE	027XY / 112XY (EPT AS REQUIRED)		628	IVE
1	EA	REMOVABLE MULLION	KR4954 STAB		689	VON
1	EA	PANIC HARDWARE	CD-98-EO-SNB		626	VON
1	EA	PANIC HARDWARE	CD-98-L-06-SNB		626	VON
1	EA	MULLION STORAGE KIT	MT54		689	VON
1	EA	FSIC RIM CYL. HOUSING	20-079		626	SCH
3	EA	FSIC MORTISE CYLINDER	26-094 (CAM & RING AS REQ'D)		626	SCH
4	EA	PERMANENT FSIC CORE	23-030 EV29 T		626	SCH
1	EA	SURFACE CLOSER	4040XP HEDA		689	LCN
1	EA	SURFACE CLOSER	4040XP SHCUSH		689	LCN
2	EA	KICK PLATE	8400 10" X 2" LDW B-CS		630	IVE
1	EA	WALL STOP	WS406/407CCV		630	IVE
2	EA	MULLION SEAL	8780NBK PSA		BK	ZER
2	EA	SILENCER	SR64		GRY	IVE

AUTHORIZED CREDENTIAL AT CARD READER TO RELEASE LEVER.
LEVER TO FAIL SAFE ON LOSS OF POWER AND/OR ACTIVATION OF FIRE ALARM SYSTEM, ALLOWING STAIRWELL RE-ENTRY.
DOOR USES SURFACE MOUNT DOOR POSITION SWITCH - DO NOT DRILL SWITCHES INTO FRAME.

Hardware Group No. 21

For use on Door #(s):
C225B

Provide each PR door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
2	EA	CONT. HINGE	027XY / 112XY (EPT AS REQUIRED)		628	IVE
1	EA	REMOVABLE MULLION	KR4954 STAB		689	VON
2	EA	PANIC HARDWARE	LD-98-EO-SNB		626	VON
1	EA	MULLION STORAGE KIT	MT54		689	VON
1	EA	FSIC MORTISE CYLINDER	26-094 (CAM & RING AS REQ'D)		626	SCH
1	EA	PERMANENT FSIC CORE	23-030 EV29 T		626	SCH
2	EA	SURFACE CLOSER	4040XP EDA		689	LCN
2	EA	KICK PLATE	8400 10" X 2" LDW B-CS		630	IVE
2	EA	FLOOR STOP	FS18S		BLK	IVE
1	EA	RAIN DRIP	142AA (AS REQ'D)		AA	ZER
1	SET	GASKETING	429 @ HEAD & JAMBS		AA	ZER
2	EA	MULLION SEAL	8780NBK PSA		BK	ZER
2	EA	DOOR SWEEP	39A		A	ZER
1	EA	THRESHOLD	655A - OR PER SILL DETAILS		A	ZER
2	EA	DOOR POSITION SWITCH	BY DIVISION 28.	✓	628	SCE

Hardware Group No. 22

For use on Door #(s):
C228B C229

Provide each PR door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
2	EA	CONT. HINGE	027XY / 112XY (EPT AS REQUIRED)		628	IVE
1	EA	CONST LATCHING BOLT	FB51P		630	IVE
1	EA	DUST PROOF STRIKE	DP1/DP2 AS REQUIRED		626	IVE
1	EA	STOREROOM LOCK	ND80TD RHO		626	SCH
1	EA	PERMANENT FSIC CORE	23-030 EV29 T		626	SCH
2	EA	SURFACE CLOSER	4040XP EDA		689	LCN
2	EA	KICK PLATE	8400 10" X 1" LDW B-CS		630	IVE
2	EA	FLOOR STOP	FS18S		BLK	IVE
1	EA	RAIN DRIP	142AA (AS REQ'D)		AA	ZER
1	SET	GASKETING	429 @ HEAD & JAMBS		AA	ZER
2	EA	DOOR SWEEP	39A		A	ZER
1	EA	ASTRAGAL	43STST		STST	ZER
1	EA	THRESHOLD	655A - OR PER SILL DETAILS		A	ZER
2	EA	DOOR POSITION SWITCH	BY DIVISION 28.	✓	628	SCE

Hardware Group No. AL01

For use on Door #(s):
C250B

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER			FINISH	MFR
1	EA	CONT. HINGE	027XY / 112XY (EPT AS REQUIRED)			628	IVE
1	EA	POWER TRANSFER	EPT10 CON			689	VON
1	EA	ELEC PANIC HARDWARE	RX-QEL-98-NL-OP-110MD-CON-SNB 24 VDC			626	VON
1	EA	FSIC RIM CYL. HOUSING	20-079			626	SCH
1	EA	PERMANENT FSIC CORE	23-030 EV29 T			626	SCH
1	EA	90 DEG OFFSET PULL	8190HD 10"			630-316	IVE
1	EA	OH STOP	100S ADJ			630	GLY
1	EA	SURFACE CLOSER	4040XP EDA			689	LCN
1	EA	PA MOUNTING PLATE	4040XP-18PA SRT			689	LCN
1	EA	CUSH SHOE SUPPORT	4040XP-30 SRT			689	LCN
1	EA	BLADE STOP SPACER	4040XP-61 SRT			689	LCN
1	SET	SEALS	BY DOOR / FRAME MANUFACTURER				
1	EA	DOOR SWEEP	39A			A	ZER
1	EA	THRESHOLD	655A - OR PER SILL DETAILS			A	ZER
2	EA	WIRE HARNESS	CON-XXXP (LENGTH AS REQUIRED) VERIFY LENGTH				SCH
1	EA	DOOR POSITION SWITCH	BY DIVISION 28.			628	SCE
1	EA	POWER / LOW VOLTAGE POWER	BY DIVISION 28.				VON

DOOR IS NORMALLY LOCKED. RESTRICTING ENTRY.

INSIDE TOUCHBAR ALWAYS ALLOWS EGRESS.

Hardware Group No. AL02

For use on Door #(s):
B203A

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
1	EA	CONT. HINGE	027XY / 112XY (EPT AS REQUIRED)		628	IVE
1	EA	PANIC HARDWARE	CD-98-NL-OP-110MD-SNB		626	VON
1	EA	FSIC RIM CYL. HOUSING	20-079		626	SCH
1	EA	FSIC MORTISE CYLINDER	26-094 (CAM & RING AS REQ'D)		626	SCH
2	EA	PERMANENT FSIC CORE	23-030 EV29 T		626	SCH
1	EA	90 DEG OFFSET PULL	8190HD 10"		630-316	IVE
1	EA	OH STOP	100S ADJ		630	GLY
1	EA	SURFACE CLOSER	4040XP HEDA		689	LCN
1	EA	PA MOUNTING PLATE	4040XP-18PA SRT		689	LCN
1	EA	CUSH SHOE SUPPORT	4040XP-30 SRT		689	LCN
1	EA	BLADE STOP SPACER	4040XP-61 SRT		689	LCN
1	SET	SEALS	BY DOOR / FRAME MANUFACTURER			

Hardware Group No. AL03

For use on Door #(s):
B202

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
1	EA	CONT. HINGE	027XY / 112XY (EPT AS REQUIRED)		628	IVE
1	EA	CLASSROOM SECURITY W/ INSIDE INDICATOR	ND78TD RHO IS-CRS		626	SCH
1	EA	PERMANENT FSIC CORE	23-030 EV29 T		626	SCH
1	EA	SURFACE CLOSER	4040XP HEDA		689	LCN
1	EA	PA MOUNTING PLATE	4040XP-18PA SRT		689	LCN
1	EA	CUSH SHOE SUPPORT	4040XP-30 SRT		689	LCN
1	EA	BLADE STOP SPACER	4040XP-61 SRT		689	LCN
1	EA	WALL STOP	WS406/407CCV		630	IVE
1	SET	SEALS	BY DOOR / FRAME MANUFACTURER			

Hardware Group No. AL04

For use on Door #(s):
B101A B101B

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER			FINISH	MFR
1	EA	CONT. HINGE	027XY / 112XY (EPT AS REQUIRED)			628	IVE
1	EA	INSTITUTION LOCK	ND82TD RHO			626	SCH
2	EA	PERMANENT FSIC CORE	23-030 EV29 T			626	SCH
1	EA	ELECTRIC STRIKE	AS REQUIRED		✓	630	ADA
1	EA	OH STOP	100S ADJ			630	GLY
1	EA	SURFACE CLOSER	4040XP EDA			689	LCN
1	EA	PA MOUNTING PLATE	4040XP-18PA SRT			689	LCN
1	EA	CUSH SHOE SUPPORT	4040XP-30 SRT			689	LCN
1	EA	BLADE STOP SPACER	4040XP-61 SRT			689	LCN
1	SET	SEALS	BY DOOR / FRAME MANUFACTURER				
1	EA	WIRE HARNESS	CON-XXXP (LENGTH AS REQUIRED) VERIFY LENGTH		✓		SCH
1	EA	MULTITECH READER	MT11 / MT15 BY DIVISION 28.		✓	BLK	SCE
1	EA	REMOTE RELEASE BUTTON	BY DIVISION 28.		✓	628	SCE
1	EA	DOOR POSITION SWITCH	BY DIVISION 28.		✓	628	SCE
1	EA	POWER / LOW VOLTAGE POWER	BY DIVISION 28.		✓		VON

OPERATION: CARD IN / CARD OUT / REMOTE RELEASE
DOOR IS NORMALLY LATCHED AND SECURED
PRESENTING VALID CREDENTIAL OR PUSHING REMOTE RELEASE BUTTON TEMPORARILY RELEASES STRIKE FOR ENTRY AND EXIT

Hardware Group No. AL05

For use on Door #(s):
B241B C235B C238B C239B

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
1	EA	CONT. HINGE	027XY / 112XY (EPT AS REQUIRED)		628	IVE
1	EA	POWER TRANSFER	EPT10 CON		689	VON
1	EA	ELEC PANIC HARDWARE	RX-QEL-98-NL-OP-110MD-CON-SNB 24 VDC		626	VON
1	EA	FSIC RIM CYL. HOUSING	20-079		626	SCH
1	EA	PERMANENT FSIC CORE	23-030 EV29 T		626	SCH
1	EA	90 DEG OFFSET PULL	8190HD 10"		630-316	IVE
1	EA	OH STOP	100S ADJ		630	GLY
1	EA	SURFACE CLOSER	4040XP EDA		689	LCN
1	EA	PA MOUNTING PLATE	4040XP-18PA SRT		689	LCN
1	EA	CUSH SHOE SUPPORT	4040XP-30 SRT		689	LCN
1	EA	BLADE STOP SPACER	4040XP-61 SRT		689	LCN
1	SET	SEALS	BY DOOR / FRAME MANUFACTURER			
1	EA	DOOR SWEEP	39A		A	ZER
1	EA	THRESHOLD	655A - OR PER SILL DETAILS		A	ZER
2	EA	WIRE HARNESS	CON-XXXP (LENGTH AS REQUIRED) VERIFY LENGTH			SCH
1	EA	MULTITECH READER	MT11 / MT15 BY DIVISION 28.		BLK	SCE
1	EA	DOOR POSITION SWITCH	BY DIVISION 28.		628	SCE
1	EA	POWER / LOW VOLTAGE POWER	BY DIVISION 28.			VON

DOOR IS NORMALLY LOCKED. RESTRICTING ENTRY.
AUTHORIZED CREDENTIAL AT OUTSIDE CARD READER MOMENTARILY RETRACTS LATCH TO ALLOW ENTRY OR BY KEY.
INSIDE TOUCHBAR ALWAYS ALLOWS EGRESS.

Hardware Group No. AL06

For use on Door #(s):
C250D

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
1	EA	CONT. HINGE	027XY / 112XY (EPT AS REQUIRED)		628	IVE
1	EA	PUSH/PULL BAR	9190HD-10"		630	IVE
1	EA	OH STOP	100S ADJ		630	GLY
1	EA	SURFACE CLOSER	4040XP EDA		689	LCN
1	EA	PA MOUNTING PLATE	4040XP-18PA SRT		689	LCN
1	EA	CUSH SHOE SUPPORT	4040XP-30 SRT		689	LCN
1	EA	BLADE STOP SPACER	4040XP-61 SRT		689	LCN
1	SET	SEALS	BY DOOR / FRAME MANUFACTURER			

Hardware Group No. AL07

For use on Door #(s):
B203B

Provide each PR door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
2	EA	CONT. HINGE	027XY / 112XY (EPT AS REQUIRED)		628	IVE
1	EA	REMOVABLE MULLION	KR4954 STAB		689	VON
1	EA	PANIC HARDWARE	CD-98-EO-SNB		626	VON
1	EA	PANIC HARDWARE	CD-98-NL-OP-110MD-SNB		626	VON
1	EA	MULLION STORAGE KIT	MT54		689	VON
1	EA	FSIC RIM CYL. HOUSING	20-079		626	SCH
3	EA	FSIC MORTISE CYLINDER	26-094 (CAM & RING AS REQ'D)		626	SCH
4	EA	PERMANENT FSIC CORE	23-030 EV29 T		626	SCH
2	EA	90 DEG OFFSET PULL	8190HD 10"		630-316	IVE
2	EA	SURFACE CLOSER	4040XP HEDA		689	LCN
2	EA	PA MOUNTING PLATE	4040XP-18PA SRT		689	LCN
2	EA	CUSH SHOE SUPPORT	4040XP-30 SRT		689	LCN
2	EA	BLADE STOP SPACER	4040XP-61 SRT		689	LCN
2	EA	WALL STOP	WS406/407CCV		630	IVE
2	EA	MULLION SEAL	8780NBK PSA		BK	ZER
1	SET	SEALS	BY DOOR / FRAME MANUFACTURER			

Hardware Group No. AL08

For use on Door #(s):
A120A A120B

Provide each PR door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER			FINISH	MFR
2	EA	CONT. HINGE	027XY / 112XY (EPT AS REQUIRED)			628	IVE
2	EA	POWER TRANSFER	EPT10 CON		✓	689	VON
1	EA	REMOVABLE MULLION	KR4954 STAB			689	VON
1	EA	ELEC PANIC HARDWARE	RX-QEL-98-EO-CON-SNB 24 VDC		✓	626	VON
1	EA	ELEC PANIC HARDWARE	RX-QEL-98-NL-OP-110MD-CON-SNB 24 VDC		✓	626	VON
1	EA	MULLION STORAGE KIT	MT54			689	VON
1	EA	FSIC RIM CYL. HOUSING	20-079			626	SCH
1	EA	FSIC MORTISE CYLINDER	26-094 (CAM & RING AS REQ'D)			626	SCH
2	EA	PERMANENT FSIC CORE	23-030 EV29 T			626	SCH
2	EA	90 DEG OFFSET PULL	8190HD 10"			630-316	IVE
2	EA	OH STOP	100S ADJ			630	GLY
2	EA	SURFACE CLOSER	4040XP EDA			689	LCN
2	EA	PA MOUNTING PLATE	4040XP-18PA SRT			689	LCN
2	EA	CUSH SHOE SUPPORT	4040XP-30 SRT			689	LCN
2	EA	BLADE STOP SPACER	4040XP-61 SRT			689	LCN
2	EA	MULLION SEAL	8780NBK PSA			BK	ZER
1	SET	SEALS	BY DOOR / FRAME MANUFACTURER				
2	EA	DOOR SWEEP	39A			A	ZER
1	EA	THRESHOLD	655A - OR PER SILL DETAILS			A	ZER
4	EA	WIRE HARNESS	CON-XXXP (LENGTH AS REQUIRED) VERIFY LENGTH		✓		SCH
1	EA	MULTITECH READER	MT11 / MT15 BY DIVISION 28.		✓	BLK	SCE
2	EA	DOOR POSITION SWITCH	BY DIVISION 28.		✓	628	SCE
1	EA	POWER / LOW VOLTAGE POWER	BY DIVISION 28.		✓		VON

DOOR IS NORMALLY LOCKED. RESTRICTING ENTRY.
AUTHORIZED CREDENTIAL AT OUTSIDE CARD READER MOMENTARILY RETRACTS LATCH TO ALLOW ENTRY OR BY KEY.
INSIDE TOUCHBAR ALWAYS ALLOWS EGRESS.

Hardware Group No. AL09

For use on Door #(s):
A120C A120D

Provide each PR door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
2	EA	CONT. HINGE	027XY / 112XY (EPT AS REQUIRED)		628	IVE
2	EA	PUSH/PULL BAR	9190HD-10"		630	IVE
2	EA	OH STOP	100S ADJ		630	GLY
2	EA	SURFACE CLOSER	4040XP EDA		689	LCN
2	EA	PA MOUNTING PLATE	4040XP-18PA SRT		689	LCN
2	EA	CUSH SHOE SUPPORT	4040XP-30 SRT		689	LCN
2	EA	BLADE STOP SPACER	4040XP-61 SRT		689	LCN
1	SET	SEALS	BY DOOR / FRAME MANUFACTURER			

Hardware Group No. AL10

For use on Door #(s):
B141B

Provide each PR door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER			FINISH	MFR
2	EA	CONT. HINGE	027XY / 112XY (EPT AS REQUIRED)			628	IVE
2	EA	POWER TRANSFER	EPT10 CON			689	VON
1	EA	REMOVABLE MULLION	KR4954 STAB			689	VON
1	EA	ELEC PANIC HARDWARE	RX-QEL-98-EO-CON-SNB 24 VDC			626	VON
1	EA	ELEC PANIC HARDWARE	RX-QEL-98-NL-OP-110MD-CON-SNB 24 VDC			626	VON
1	EA	MULLION STORAGE KIT	MT54			689	VON
1	EA	FSIC RIM CYL. HOUSING	20-079			626	SCH
1	EA	FSIC MORTISE CYLINDER	26-094 (CAM & RING AS REQ'D)			626	SCH
2	EA	PERMANENT FSIC CORE	23-030 EV29 T			626	SCH
2	EA	90 DEG OFFSET PULL	8190HD 10"			630-316	IVE
2	EA	OH STOP	100S ADJ			630	GLY
2	EA	SURFACE CLOSER	4040XP EDA			689	LCN
2	EA	PA MOUNTING PLATE	4040XP-18PA SRT			689	LCN
2	EA	CUSH SHOE SUPPORT	4040XP-30 SRT			689	LCN
2	EA	BLADE STOP SPACER	4040XP-61 SRT			689	LCN
2	EA	MULLION SEAL	8780NBK PSA			BK	ZER
1	SET	SEALS	BY DOOR / FRAME MANUFACTURER				
2	EA	DOOR SWEEP	39A			A	ZER
1	EA	THRESHOLD	655A - OR PER SILL DETAILS			A	ZER
4	EA	WIRE HARNESS	CON-XXXP (LENGTH AS REQUIRED) VERIFY LENGTH				SCH
2	EA	DOOR POSITION SWITCH	BY DIVISION 28.			628	SCE
1	EA	POWER / LOW VOLTAGE POWER	BY DIVISION 28.				VON

DOOR IS NORMALLY LOCKED. RESTRICTING ENTRY.

INSIDE TOUCHBAR ALWAYS ALLOWS EGRESS.

Hardware Group No. AL11

For use on Door #(s):
B141A C250A

Provide each PR door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
2	EA	CONT. HINGE	027XY / 112XY (EPT AS REQUIRED)		628	IVE
2	EA	POWER TRANSFER	EPT10 CON		689	VON
1	EA	REMOVABLE MULLION	KR4954 STAB		689	VON
1	EA	ELEC PANIC HARDWARE	RX-QEL-98-EO-CON-SNB 24 VDC		626	VON
1	EA	ELEC PANIC HARDWARE	RX-QEL-98-NL-OP-110MD-CON-SNB 24 VDC		626	VON
1	EA	MULLION STORAGE KIT	MT54		689	VON
1	EA	FSIC RIM CYL. HOUSING	20-079		626	SCH
1	EA	FSIC MORTISE CYLINDER	26-094 (CAM & RING AS REQ'D)		626	SCH
2	EA	PERMANENT FSIC CORE	23-030 EV29 T		626	SCH
2	EA	90 DEG OFFSET PULL	8190HD 10"		630-316	IVE
1	EA	OH STOP	100S ADJ		630	GLY
1	EA	OH STOP	100SE ADJ		630	GLY
1	EA	SURFACE CLOSER	4040XP EDA		689	LCN
1	EA	SURF. AUTO OPERATOR	4642 TBWMS 120 VAC		689	LCN
1	EA	PA MOUNTING PLATE	4040XP-18PA SRT		689	LCN
1	EA	CUSH SHOE SUPPORT	4040XP-30 SRT		689	LCN
1	EA	BLADE STOP SPACER	4040XP-61 SRT		689	LCN
1	EA	WEATHER RING	8310-801			LCN
1	EA	ACTUATOR, TOUCH	8310-818T		630	LCN
1	EA	MOUNT BOX	8310-819F / 819S AS REQUIRED			LCN
1	EA	ACTUATOR, TOUCH	8310-853T		630	LCN
1	EA	MOUNT BOX	8310-867S / 867F AS REQUIRED			LCN
2	EA	MULLION SEAL	8780NBK PSA		BK	ZER
1	SET	SEALS	BY DOOR / FRAME MANUFACTURER			
2	EA	DOOR SWEEP	39A		A	ZER
1	EA	THRESHOLD	655A - OR PER SILL DETAILS		A	ZER
4	EA	WIRE HARNESS	CON-XXXP (LENGTH AS REQUIRED) VERIFY LENGTH			SCH
1	EA	MULTITECH READER	MT11 / MT15 BY DIVISION 28.		BLK	SCE
2	EA	DOOR POSITION SWITCH	BY DIVISION 28.		628	SCE
1	EA	POWER / LOW VOLTAGE POWER	BY DIVISION 28.			VON

DOOR IS NORMALLY LOCKED. RESTRICTING ENTRY.
AUTHORIZED CREDENTIAL AT OUTSIDE CARD READER MOMENTARILY RETRACTS LATCH TO ALLOW ENTRY OR BY KEY.
AUTHORIZED CREDENTIAL AT OUTSIDE CARD READER TO ALLOW ADA PUSH BUTTON TO ACTIVATE AUTO OPERATOR AND OPEN DOOR INSIDE ADA PUSH BUTTON ALWAYS ACTIVE.
SHOULD OWNER DESIRE,ACCESS CONTROL SYSTEM MAY HAVE LATCH RETRACTED DURING OPEN HOURS TO ALLOW FREE PUBLIC ENTRY.
INSIDE TOUCHBAR ALWAYS ALLOWS EGRESS.

Hardware Group No. AL12

For use on Door #(s):
B141D

Provide each PR door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER			FINISH	MFR
2	EA	CONT. HINGE	027XY / 112XY (EPT AS REQUIRED)			628	IVE
2	EA	POWER TRANSFER	EPT10 CON			689	VON
1	EA	REMOVABLE MULLION	KR4954 STAB			689	VON
1	EA	ELEC PANIC HARDWARE	RX-QEL-98-EO-CON-SNB 24 VDC			626	VON
1	EA	ELEC PANIC HARDWARE	RX-QEL-98-NL-OP-110MD-CON-SNB 24 VDC			626	VON
1	EA	MULLION STORAGE KIT	MT54			689	VON
1	EA	FSIC RIM CYL. HOUSING	20-079			626	SCH
1	EA	FSIC MORTISE CYLINDER	26-094 (CAM & RING AS REQ'D)			626	SCH
2	EA	PERMANENT FSIC CORE	23-030 EV29 T			626	SCH
2	EA	90 DEG OFFSET PULL	8190HD 10"			630-316	IVE
2	EA	OH STOP	100S ADJ			630	GLY
2	EA	SURFACE CLOSER	4040XP EDA			689	LCN
2	EA	PA MOUNTING PLATE	4040XP-18PA SRT			689	LCN
2	EA	CUSH SHOE SUPPORT	4040XP-30 SRT			689	LCN
2	EA	BLADE STOP SPACER	4040XP-61 SRT			689	LCN
2	EA	MULLION SEAL	8780NBK PSA			BK	ZER
1	SET	SEALS	BY DOOR / FRAME MANUFACTURER				
4	EA	WIRE HARNESS	CON-XXXP (LENGTH AS REQUIRED) VERIFY LENGTH				SCH
2	EA	DOOR POSITION SWITCH	BY DIVISION 28.			628	SCE
1	EA	POWER / LOW VOLTAGE POWER	BY DIVISION 28.				VON

DOOR IS NORMALLY LOCKED. RESTRICTING ENTRY.

INSIDE TOUCHBAR ALWAYS ALLOWS EGRESS.

Hardware Group No. AL13

For use on Door #(s):
B141C

Provide each PR door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER			FINISH	MFR
2	EA	CONT. HINGE	027XY / 112XY (EPT AS REQUIRED)			628	IVE
2	EA	POWER TRANSFER	EPT10 CON		✓	689	VON
1	EA	REMOVABLE MULLION	KR4954 STAB			689	VON
1	EA	ELEC PANIC HARDWARE	RX-QEL-98-EO-CON-SNB 24 VDC		✓	626	VON
1	EA	ELEC PANIC HARDWARE	RX-QEL-98-NL-OP-110MD-CON-SNB 24 VDC		✓	626	VON
1	EA	MULLION STORAGE KIT	MT54			689	VON
1	EA	FSIC RIM CYL. HOUSING	20-079			626	SCH
1	EA	FSIC MORTISE CYLINDER	26-094 (CAM & RING AS REQ'D)			626	SCH
2	EA	PERMANENT FSIC CORE	23-030 EV29 T			626	SCH
2	EA	90 DEG OFFSET PULL	8190HD 10"			630-316	IVE
1	EA	OH STOP	100S ADJ			630	GLY
1	EA	OH STOP	100SE ADJ			630	GLY
1	EA	SURFACE CLOSER	4040XP EDA			689	LCN
1	EA	SURF. AUTO OPERATOR	4642 TBWMS 120 VAC		✓	689	LCN
1	EA	PA MOUNTING PLATE	4040XP-18PA SRT			689	LCN
1	EA	CUSH SHOE SUPPORT	4040XP-30 SRT			689	LCN
1	EA	BLADE STOP SPACER	4040XP-61 SRT			689	LCN
1	EA	ACTUATOR, TOUCH	8310-818T		✓	630	LCN
1	EA	MOUNT BOX	8310-819F / 819S AS REQUIRED				LCN
1	EA	ACTUATOR, TOUCH	8310-853T		✓	630	LCN
1	EA	MOUNT BOX	8310-867S / 867F AS REQUIRED				LCN
2	EA	MULLION SEAL	8780NBK PSA			BK	ZER
1	SET	SEALS	BY DOOR / FRAME MANUFACTURER				
4	EA	WIRE HARNESS	CON-XXXP (LENGTH AS REQUIRED) VERIFY LENGTH		✓		SCH
1	EA	MULTITECH READER	MT11 / MT15 BY DIVISION 28.		✓	BLK	SCE
2	EA	DOOR POSITION SWITCH	BY DIVISION 28.		✓	628	SCE
1	EA	POWER / LOW VOLTAGE POWER	BY DIVISION 28.		✓		VON

DOOR IS NORMALLY LOCKED. RESTRICTING ENTRY.
AUTHORIZED CREDENTIAL AT OUTSIDE CARD READER MOMENTARILY RETRACTS LATCH TO ALLOW ENTRY OR BY KEY.
AUTHORIZED CREDENTIAL AT OUTSIDE CARD READER TO ALLOW ADA PUSH BUTTON TO ACTIVATE AUTO OPERATOR AND OPEN DOOR INSIDE ADA PUSH BUTTON ALWAYS ACTIVE.
SHOULD OWNER DESIRE,ACCESS CONTROL SYSTEM MAY HAVE LATCH RETRACTED DURING OPEN HOURS TO ALLOW FREE PUBLIC ENTRY.
INSIDE TOUCHBAR ALWAYS ALLOWS EGRESS.

Hardware Group No. AL14

For use on Door #(s):
C250C

Provide each PR door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
2	EA	CONT. HINGE	027XY / 112XY (EPT AS REQUIRED)		628	IVE
2	EA	PUSH/PULL BAR	9190HD-10"		630	IVE
1	EA	OH STOP	100S ADJ		630	GLY
1	EA	OH STOP	100SE ADJ		630	GLY
1	EA	SURFACE CLOSER	4040XP EDA		689	LCN
1	EA	SURF. AUTO OPERATOR	4642 TBWMS 120 VAC	✓	689	LCN
1	EA	PA MOUNTING PLATE	4040XP-18PA SRT		689	LCN
1	EA	CUSH SHOE SUPPORT	4040XP-30 SRT		689	LCN
1	EA	BLADE STOP SPACER	4040XP-61 SRT		689	LCN
1	EA	ACTUATOR, TOUCH	8310-818T	✓	630	LCN
1	EA	MOUNT BOX	8310-819F / 819S AS REQUIRED			LCN
1	EA	ACTUATOR, TOUCH	8310-853T	✓	630	LCN
1	EA	MOUNT BOX	8310-867S / 867F AS REQUIRED			LCN
1	SET	SEALS	BY DOOR / FRAME MANUFACTURER			

Hardware Group No. OH01

For use on Door #(s):
C230B C233B C252E

Provide each RU door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
	EA	NOTE	HARDWARE BY ROLLUP DOOR MANUFACTURER		

Door Numbers	HwSet#
A116	01
A117	01
A118	01
A119	01
A120A	AL08
A120B	AL08
A120C	AL09
A120D	AL09
A121	09
A122	01
A123	01
A124	01
A183	01
A205	09
A209	01
A210	01
A211	01
A212	01
A213	01
A214	01
A215	01
A216	01
B101A	AL04
B101B	AL04
B103	05
B104	05
B105	05
B106	05
B107	12
B108A	06
B108B	05
B109A	05
B109B	05
B110	05
B111	12
B112	12
B113A	06
B114	06
B115	01
B126	19
B127	12
B129	12
B131	13
B132	04
B133	12
B134	05
B135	01

Door Numbers	HwSet#
B137	01
B138	07
B139	01
B140	01
B141A	AL11
B141B	AL10
B141C	AL13
B141D	AL12
B144	03
B145	09
B201	06
B202	AL03
B203A	AL02
B203B	AL07
B206	04
B207	02
B208	02
B217	09
B218	19
B219	01
B220	02
B222	12
B223	12
B226	05
B241A	01
B241B	AL05
B242	12
B243	13
B244	16
B245	11
B246	11
C225A	20
C225B	21
C225C	19
C227A	17
C227B	15
C228A	18
C228B	22
C229	22
C230A	10
C230B	OH01
C231A	19
C231B	02
C231C	02
C231D	14
C232	06
C233A	19

Door Numbers	HwSet#
C233B	OH01
C234	19
C235A	01
C235B	AL05
C236	12
C237	12
C238A	01
C238B	AL05
C239A	01
C239B	AL05
C240	12
C250A	AL11
C250B	AL01
C250C	AL14
C250D	AL06
C251	13
C252E	OH01
C253	13
C254	05
C255	12
C256	08

END OF SECTION

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SECTION 08 8000

GLAZING

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Furnish all labor, materials, equipment, tools, and services required to fully complete all Glazing work as is indicated on the drawings and/or specified herein including, but not limited to, the following described items.
B. Insulating glass units.
C. Spandrel glass units
D. Glazing units.
E. Glazing shall withstand normal thermal movement, wind and impact loads (where applicable) without failure.
F. Glazing compounds and access.
G. Unless specifically indicated on the drawings, glazing shall comply with ICC (IBC) - International Building Code 2018 for locations of tempered glazing.
H. Do not include sales tax, refer to Section 00 1115 - Advertisement for Prequalification of Bidders.

1.02 RELATED REQUIREMENTS

A. Section 07 9200 - Joint Sealants: Sealants for other than glazing purposes.
B. Section 08 1113 - Hollow Metal Doors and Frames: Glazed lites in doors, borrowed lites, and transoms.
C. Section 08 1416 - Flush Wood Doors: Glazed lites in doors.
D. Section 08 4313 - Aluminum-Framed Storefronts: Glazing provided as part of storefront assembly.
E. Section 08 4413 - Glazed Aluminum Curtain Wall: Glazing provided as part of wall assembly.

1.03 REFERENCE STANDARDS

A. 16 CFR 1201 - Safety Standard for Architectural Glazing Materials; Current Edition.
B. ANSI Z97.1 - American National Standard for Safety Glazing Materials Used in Buildings - Safety Performance Specifications and Methods of Test; 2015 (Reaffirmed 2020).
C. ASCE 7 - Minimum Design Loads and Associated Criteria for Buildings and Other Structures; Most Recent Edition Cited by Referring Code or Reference Standard.
D. ASTM C864 - Standard Specification for Dense Elastomeric Compression Seal Gaskets, Setting Blocks, and Spacers; 2005 (Reapproved 2015).
E. ASTM C920 - Standard Specification for Elastomeric Joint Sealants; 2018.
F. ASTM C1036 - Standard Specification for Flat Glass; 2021.
G. ASTM C1048 - Standard Specification for Heat-Strengthened and Fully Tempered Flat Glass; 2018.
H. ASTM C1172 - Standard Specification for Laminated Architectural Flat Glass; 2019.
I. ASTM C1193 - Standard Guide for Use of Joint Sealants; 2016.
J. ASTM C1376 - Standard Specification for Pyrolytic and Vacuum Deposition Coatings on Flat Glass; 2021a.
K. ASTM E1300 - Standard Practice for Determining Load Resistance of Glass in Buildings; 2016.
L. ASTM E2190 - Standard Specification for Insulating Glass Unit Performance and Evaluation; 2019.
M. GANA (GM) - GANA Glazing Manual; 2008.

N. GANA (SM) - GANA Sealant Manual; 2008.
O. ICC (IBC) - International Building Code; Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.
P. NFRC 100 - Procedure for Determining Fenestration Product U-factors; 2020.
Q. NFRC 200 - Procedure for Determining Fenestration Product Solar Heat Gain Coefficient and Visible Transmittance at Normal Incidence; 2020.
R. NFRC 300 - Test Method for Determining the Solar Optical Properties of Glazing Materials and Systems; 2020.

1.04 ADMINISTRATIVE REQUIREMENTS

A. Preinstallation Meeting: Convene a preinstallation meeting one week before starting work of this section; require attendance by each of the affected installers.

1.05 SUBMITTALS

A. See Section 01 3000 - Administrative Requirements for submittal procedures.
B. Product Data on Insulating Glass Unit and Glazing Unit Glazing Types: Provide structural, physical and environmental characteristics, size limitations, special handling and installation requirements.
C. Product Data on Glazing Compounds and Accessories: Provide chemical, functional, and environmental characteristics, limitations, special application requirements, and identify available colors.
D. Samples: Submit two samples 12 by 12 inch in sizeof glass units, showing coloration and design.
E. Manufacturer's Certificate: Certify that glass and glazing products meets or exceeds specified requirements.
    1. Refer to Sections 08 4313 and 08 4413 for assembly thermal performance compliance and certification.
F. Warranty Documentation: Submit manufacturer warranty and ensure that forms have been completed in Cache County School District 's name and registered with manufacturer.

1.06 QUALITY ASSURANCE

A. Perform Work in accordance with GANA (GM) and GANA (SM) for glazing installation methods. Maintain one copy on site.
B. Provide glass obtained from a single source.
C. Provide compatibilty and adhesion testing for glazing tapes, gaskets, sealants and other accessories. Prior test reports may be acceptable in lieu of testing.
D. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum three years of documented experience.
E. Installer Qualifications: Company specializing in performing the work of this section with minimum five yearsdocumented experience.
F. Testing Agency Qualifications: Independent firm specializing in performing testing and inspections of the type specified in this section.

1.07 MOCK-UPS

A. See Section 01 4300 - Quality Assurance for additional requirements.
B. Provide on-site glazing mock-up with the specified glazing components.
C. Locate where directed.
D. Mock-ups may remain as part of the Work, if undisturbed at time of substantial completion at the discretion of the Architect.

1.08 FIELD CONDITIONS

A. Do not install glazing when ambient temperature is less than 50 degrees F.
B. Maintain minimum ambient temperature before, during and 24 hours after installation of glazing compounds.

1.09 WARRANTY

A. See Section 01 7800 - Closeout Submittals for additional warranty requirements.
B. Insulating Glass Units: Provide a five (5) year manufacturer warranty to include coverage for seal failure, interpane dusting or misting, including providing products to replace failed units.
C. Laminated Glass: Provide a five (5) year manufacturer warranty to include coverage for delamination, including providing products to replace failed units.
D. The Contractor shall guarantee his work for a period of One (1) year from date of Substantial Completion. Guarantee shall be on form included in Section 01 7800.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Float Glass Manufacturers:
   1. AGC Glass North America, Inc: www.agcglass.com.
   2. Cardinal Glass Industries: www.cardinalcorp.com.
   3. Guardian Glass, LLC: www.guardianglass.com.
   4. Pilkington North America Inc: www.pilkington.com/na.
   5. Vitro Architectural Glass: www.vitroglazings.com.
   6. Substitutions: See Section 01 6000 - Product Requirements.
B. Laminated Glass Manufacturers:
   1. Cardinal Glass Industries: www.cardinalcorp.com.
   2. Viracon, Architectural Glass segment of Apogee Enterprises, Inc: www.viracon.com.
   3. Trulite Glass & Aluminum Solutions, LLC: www.trulite.com.
   4. Substitutions: See Section 01 6000 - Product Requirements.
C. Fire-Protection-Rated Glass: Provide products as required to achieve indicated fire-rating period.
   1. Fabricators:
      a. GGI - General Glass International: www.generalglass.com.
   2. Manufacturers:
      a. AGC Glass North America, Inc.: www.agc-yourglass.com.
      b. SAFTIFIRST, a division of O'Keeffe's Inc.: www.safti.com.
      c. SCHOTT North America, Inc.: www.us.schott.com.
      d. Technical Glass Products: www.fireglass.com.
      e. Vetrotech North America; Contraflam 45: www.vetrotechusa.com.
   3. Substitutions: Refer to Section 01 6000 - Product Requirements.
D. Etched Glass Manufacturers:
   1. AGC Glass North America, Inc; Matelux Bird Friendly Acid-Etched Glass: www.agcglass.com.
   2. GGI - General Glass International; Satin Etched: www.generalglass.com.
   3. Walker Glass Company Ltd; Walker Textures - Acid-Etched Glass: www.walkerglass.com.
   4. Substitutions: See Section 01 6000 - Product Requirements.

2.02 PERFORMANCE REQUIREMENTS - EXTERIOR GLAZING ASSEMBLIES

A. Provide type and thickness of exterior glazing assemblies to support assembly dead loads, and to withstand live loads caused by positive and negative wind pressure acting normal to plane of glass.
   1. Design Pressure: Calculated in accordance with ASCE 7.
   2. Comply with ASTM E1300 for design load resistance of glass type, thickness, dimensions, and maximum lateral deflection of supported glass.
   3. Seismic Loads: Design and size glazing components to withstand seismic loads and sway displacement in accordance with the requirements of ASCE 7.
   4. Provide glass edge support system sufficiently stiff to limit the lateral deflection of supported glass edges to less than 1/200 of their lengths under specified design load.
   5. Glass thicknesses listed are minimum.

B. Weather-Resistive Barrier Seals: Provide completed assemblies that maintain continuity of building enclosure water-resistive barrier, vapor retarder, and/or air barrier.
   1. In conjunction with weather barrier related materials described in other sections, as follows:
   2. To utilize inner pane of multiple pane insulating glass units for continuity of vapor retarder and/or air barrier seal.
   3. To maintain a continuous vapor retarder and/or air barrier throughout glazed assembly from glass pane to heel bead of glazing sealant.

C. Thermal and Optical Performance: Provide exterior glazing products with performance properties as indicated. Performance properties are in accordance with manufacturer's published data as determined with the following procedures and/or test methods:
   1. Center of Glass U-Value: Comply with NFRC 100 using Lawrence Berkeley National Laboratory (LBNL) WINDOW 6.3 computer program.
   2. Center of Glass Solar Heat Gain Coefficient (SHGC): Comply with NFRC 200 using Lawrence Berkeley National Laboratory (LBNL) WINDOW 6.3 computer program.
   3. Solar Optical Properties: Comply with NFRC 300 test method.

D. Refer to Sections 08 4313 and/or 08 4413 for Assembly Thermal Performance Compliance and Certification.

2.03 GLASS MATERIALS

A. Float Glass: Provide float glass based glazing unless otherwise indicated.
   1. Annealed Type: ASTM C1036, Type I - Transparent Flat, Class 1 - Clear, Quality - Q3.
   2. Kind HS - Heat-Strengthened Type: Complies with ASTM C1048.
   3. Kind FT - Fully Tempered Type: Complies with ASTM C1048.
   4. Fully Tempered Safety Glass: Complies with ANSI Z97.1 or 16 CFR 1201 criteria for safety glazing used in hazardous locations.
   5. Impact Resistant Safety Glass: Complies with ANSI Z97.1 - Class B, or 16 CFR 1201 - Category I criteria.
   6. Sputter-Coated Float Glass: ASTM C1376, float glass with metallic oxide or nitride coating deposited by vacuum deposition process following primary glass product manufacturer.
   7. Ceramic-Coated Vision Glass: Float glass with silk-screened ceramic enamel application, per ASTM C 1048, Condition B, Type I, Quality-Q3, and Specification No. 95-1-31 in GANA 'Engineering Standards Manual.'
   8. Ceramic-Coated Spandrel Glass: ASTM C 1048, Condition B, Type I, Quality-Q3 and GANA 'Engineering Standards Manual' 66-9-20 Specification for Heat-Strengthened or Fully Tempered Ceramic Enameled Spandrel Glass for Use in Building Window/Curtain Walls and Other Architectural Applications.

9. Coated Spandrel Float Glass: Float glass complying with ASTM C 1048, GANA 'Engineering Standards Manual' 89-1-6 Specification for Environmental Durability of Fully Tempered or Heat-Strengthened Spandrel Glass with Applied Opacifier and other requirements specified, with manufacturer's standard opacifier material on coated second surface of lites.
10. Thicknesses: As indicated; provide greater thickness as required for exterior glazing wind load design.

B. Decorative Laminated Glass: Float glass laminated in accordance with ASTM C1172.
1. Laminated Safety Glass: Complies with ANSI Z97.1 - Class A and 16 CFR 1201 - Category II impact test requirements.
2. Plastic Interlayer: 0.045 inch (1.14 mm) thick, minimum.
3. Where fully tempered is specified or required, provide glass that has been tempered by the tong-less horizontal method.
4. Manufacturers:
   a. Dupont; Product - "SentryGlas Expressions": www.sentryglas.dupont.com.
   b. Substitutions: Refer to Section 01 6000 - Product Requirements.

C. Fire-Protection-Rated Glazing:
1. IBC Fire Protection Rating: As indicated on drawings.
2. Safety Certification: 16 CFR 1201 Category II.
3. Products:
   a. SAFTI FIRST, a division of O'Keeffe's Inc; SuperLite X-90: www.safti.com.
   b. SCHOTT North America Inc; Pyran Platinum L: www.us.schott.com.
   c. Vetrotech Saint-Gobain North America; Keralite L: www.vetrotechusa.com.
   d. Vetrotech Saint-Gobain North America; Contraflam: www.vetrotechusa.com.
   e. Substitutions: Refer to Section 01 6000 - Product Requirements.

2.04 SEALED INSULATING GLASS UNITS

A. Manufacturers:
1. Any of the manufacturers specified for float glass.
2. Fabricator certified by glass manufacturer for type of glass, coating, and treatment involved and capable of providing specified warranty.
3. AGC Glass North America, Inc: www.agcglass.com.
4. Northwestern Industries, Inc. www.nwiglass.com.
5. Viracon, Apogee Enterprises, Inc: www.viracon.com.
6. Oldcastle BuildingEnvelope. www.obe.com.
7. Substitutions: See Section 01 6000 - Product Requirements.

B. Sealed Insulating Glass Units: Types as indicated.
1. Locations: Exterior, except as otherwise indicated.
2. Durability: Certified by an independent testing agency to comply with ASTM E2190.
3. Coated Glass: Comply with requirements of ASTM C1376 for pyrolytic (hard-coat) or magnetic sputter vapor deposition (soft-coat) type coatings on flat glass; coated vision glass, Kind CV; coated overhead glass, Kind CO; or coated spandrel glass, Kind CS.
4. Warm-Edge Spacers: Viracon Thermal Spacer (VTS).
   a. Spacer Width: As required for specified insulating glass unit.
   b. Spacer Height: 0.27 inch.
   c. Manufacturers:
      1) Viracon, Apogee Enterprises, Inc: www.viracon.com.
      2) Technoform Glass Insulation; TGI-Spacer: www.glassinsulation.us.
      3) Substitutions: See Section 01 6000 - Product Requirements.
5. Spacer Color: Black.
6. Edge Seal:

a. Dual-Sealed System: Provide polyisobutylene sealant as primary seal applied between spacer and glass panes, and silicone sealant as secondary seal applied around perimeter.
7. Color: Black.
8. Purge interpane space with dry air, hermetically sealed.

2.05 GLAZING TYPES

A. Type G1 - Clear Double Glazed Solarban 70.
1. Conformance: ASTM E 2190.
2. Outdoor Lite: Clear Float Glass as manufactured by Vitro Architectural Glass.
a. Conformance: ASTM C 1036, Type 1, Class 1, Quality q3.
b. Glass Thickness: 6 mm (1/4 inch).
c. Coating: Solarban 70 on Surface number 2.
1) Magnetic Sputter Vacuum Deposition Coating (MSVD): ASTM C 1376.
d. Heat-Treatment:
1) Heat-strengthened, ASTM C 1048, Kind HS.
3. Interspace Content: Argon or air 1/2 inch (12.7 mm).
4. Indoor Lite: Clear float glass as manufactured by Vitro Architectural Glass.
a. Conformance: ASTM C 1036, Type 1, Class 1, Quality q3.
b. Heat-Treatment:
1) Heat-strengthened, ASTM C 1048, Kind HS.
c. Glass Thickness: 6 mm (1/4 inch).
5. Total Thickness: 1 inch (25 mm).
6. Performance Requirements:
a. Visible Light Transmittance: 64 percent minimum.
b. Winter Nighttime U-Factor: 0.28 (Btu/hr*ft2*°F) maximum.
c. Summer daytime U-Factor: 0.26 (Btu/hr*ft2*°F) maximum.
d. Shading Coefficient: 0.32 maximum.
e. Solar Heat Gain Coefficient: 0.27 maximum.
f. Outdoor Visible Light Reflectance: 12 percent maximum.

B. Type G2 - 100 percent Ceramic Frit Clear Solarban 70 - Double Glazed Solar Control Spandrel.
1. Conformance: ASTM C 1048, Condition B, Type I, Quality-Q3 and GANA Engineering Standards Manual GANA 66-9-20 Specification for Heat-Strengthened or Fully Tempered Ceramic Enameled Spandrel Glass for Use in Building Window/Curtain Walls and Other Architectural Application.
2. Outdoor Lite: Clear Float Glass as manufactured by Vitro Architectural Glass
a. Conformance: ASTM C 1036, Type 1, Class 1, Quality q3.
b. Glass Thickness: 6 mm (1/4 inch).
c. Coating: Solarban 70 on Surface number 2.
1) Magnetic Sputter Vacuum Deposition Coating (MSVD): ASTM C 1376.
d. Heat-Treatment:
1) Heat-strengthened, ASTM C 1048, Kind HS.
2) Tempered; ASTM C 1048, Kind FT; Safety Glazing meets ANSI Z97.1 and CPSC 16CFR-1201.
3. Interspace Content: Argon or air 1/2 inch (12.7 mm).
4. Indoor Lite: Clear Float Glass as manufactured by Vitro Architectural Glass.
a. Conformance: ASTM C 1036, Type 1, Class 1, Quality q3.
b. Glass Thickness: 6mm (1/4 inch).
c. Heat-Treatment:
1) Heat-strengthened, ASTM C 1048, Kind HS.

2) Tempered; ASTM C 1048, Kind FT; Safety Glazing meets ANSI Z97.1 and CPSC 16CFR-1201.

d. Coating Type: Ceramic Frit, 100 percent coverage.

1) Color: Standard Color to be selected by Architect.

e. Spandrel Coating Surface: 4.

5. Total Thickness: 1 inch (25 mm).
6. Performance Requirements:
   a. Visible Light Transmittance: 61 percent minimum.
   b. Winter Nighttime U-Factor: 0.28 (Btu/hr*ft2*°F) maximum.
   c. Summer daytime U-Factor: 0.26 (Btu/hr*ft2*°F) maximum.
   d. Shading Coefficient: 0.31 maximum.
   e. Solar Heat Gain Coefficient: 0.27 maximum.
   f. Outdoor Visible Light Reflectance: 12 percent maximum.
7. Both lites to be fully tempered where indicated on Drawings.

C. Type G3 - Clear Double Glazed Solarban 70.

1. Conformance: ASTM E 2190.
2. Outdoor Lite: Clear Float Glass as manufactured by Vitro Architectural Glass.
   a. Conformance: ASTM C 1036, Type 1, Class 1, Quality q3.
   b. Glass Thickness: 6 mm (1/4 inch).
   c. Coating: Solarban 70 on Surface number 2.
      1) Magnetic Sputter Vacuum Deposition Coating (MSVD): ASTM C 1376.
   d. Heat-Treatment:
      1) Heat-strengthened, ASTM C 1048, Kind HS.
3. Interspace Content: Argon or air 1/2 inch (12.7 mm).
4. Indoor Lite: Clear float glass as manufactured by Vitro Architectural Glass.
   a. Conformance: ASTM C 1036, Type 1, Class 1, Quality q3.
   b. Heat-Treatment:
      1) Heat-strengthened, ASTM C 1048, Kind HS.
   c. Glass Thickness: 6 mm (1/4 inch).
5. Total Thickness: 1 inch (25 mm).
6. Performance Requirements:
   a. Visible Light Transmittance: 64 percent minimum.
   b. Winter Nighttime U-Factor: 0.28 (Btu/hr*ft2*°F) maximum.
   c. Summer daytime U-Factor: 0.26 (Btu/hr*ft2*°F) maximum.
   d. Shading Coefficient: 0.32 maximum.
   e. Solar Heat Gain Coefficient: 0.27 maximum.
   f. Outdoor Visible Light Reflectance: 12 percent maximum.
7. Safety Film: Safe Haven Defense US, LLC, located at 22849 N. 19th Ave. Suite 100; Phoenix, AZ 85027; Tel: 303-263-7259; Email: request info; Web: https://safehavendefense.com.
   a. Safe Haven Defense: SW600RC - Glazing Riot Resistant Laminate Film as manufactured by Safe Haven Defense. Offers protection for glass breakage due to forced entry such as burglaries, hurricanes, and blast. Hinders entry into property.
      1) Standards Compliance:
         (a) Building Glaze Materials: Per ANSI Z97.1.
         (b) CPSC 16 CFR 1201: Impact Test.
         (c) ASTM E1886: Hurricane Wind.
         (d) GSA Explosive Test: GSA TS01-2003.
         (e) BMAG: Level 1- Blast Mitigation.
         (f) UL972 / ULC 332: Burglary Protection.
         (g) ASTM F3561: Forced Entry after Shooter Attack.

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2) Performance Requirements:
   (a) Thickness (1 layer): 35 mil (0.89 mm).
   (b) Estimated 15-30 minutes of resistance against common burglar tools.
   (c) Break Strength: 1100 psi (7584 kPa).
   (d) Tensile Strength: 34,000 psi (234,420 kPa).
   (e) Peel Strength: 6 psi (41 kPa).
   (f) Total Solar Energy Rejection: 20 percent.
   (g) IR Rejection: 59 percent.
   (h) UV Rejection: 99 percent.

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~~D. Type G3 - Not used.~~

E. Type G4 - Single Vision Glazing:
   1. Type: Annealed float glass; fully tempered float glass as indicated on drawings.
   2. Tint: Clear.
   3. Thickness: 1/4 inch (6 mm).
   4. Safety Film: Safe Haven Defense US, LLC, located at 22849 N. 19th Ave. Suite 100; Phoenix, AZ 85027; Tel: 303-263-7259; Email: request info; Web: https://safehavendefense.com.
      a. Safe Haven Defense: SW600RC - Glazing Riot Resistant Laminate Film as manufactured by Safe Haven Defense. Offers protection for glass breakage due to forced entry such as burglaries, hurricanes, and blast. Hinders entry into property.
         1) Standards Compliance:
            (a) Building Glaze Materials: Per ANSI Z97.1.
            (b) CPSC 16 CFR 1201: Impact Test.
            (c) ASTM E1886: Hurricane Wind.
            (d) GSA Explosive Test: GSA TS01-2003.
            (e) BMAG: Level 1- Blast Mitigation.
            (f) UL972 / ULC 332: Burglary Protection.
            (g) ASTM F3561: Forced Entry after Shooter Attack.
         2) Performance Requirements:
            (a) Thickness (1 layer): 35 mil (0.89 mm).
            (b) Estimated 15-30 minutes of resistance against common burglar tools.
            (c) Break Strength: 1100 psi (7584 kPa).
            (d) Tensile Strength: 34,000 psi (234,420 kPa).
            (e) Peel Strength: 6 psi (41 kPa).
            (f) Total Solar Energy Rejection: 20 percent.
            (g) IR Rejection: 59 percent.
            (h) UV Rejection: 99 percent.

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~~F. Type G4 - Not used.~~

G. Type G5 - Single Vision Glazing:
   1. Type: Annealed float glass; fully tempered float glass as indicated on drawings.
   2. Tint: Clear.
   3. Thickness: 1/4 inch (6 mm).

H. Type G6 - Single/ Etched
   1. Type: Annealed float glass.
   2. Coating: 100 percent Acid Etch on surface number 2.
   3. Tint: Clear.
   4. Thickness: 1/4 inch (6 mm).

I. Type G7 - Fire Protective Rated Glass 100 sq in or less.
   1. Thickness: 3/16 inch.
   2. Rating: 20 - 90 minute.
   3. IBC Fire Rated Marking: D-H-90.

4. Safety Glazing Certification: 16 CFR 1201 Category II.
5. Provide permanent markings on fire-protectve-rated glazing in compliance with ICC (IBC), local building code, and authorities having jurisdiction.
6. Basis of Design: Keralite by Vetrotech.
7. Substitutions: Refer to Section 01 6000 - Product Requirements.

J. Type G8 - Sealed Insulating Glass Units: Vision/Sound glazing.
1. Between-lite space filled with Argon or air 1/2 inch (12.7 mm).
2. Outboard Lite: Annealed float glass at band room.
   a. Coating: None.
   b. Tint: Clear.
3. Inboard Lite: Annealed float glass.
   a. Tint: Clear.
4. Total Thickness: 1 inch (25 mm).

K. Type T - Sealed Insulating Glass Units: Safety glazing.
1. Applications: Provide this type of glazing in the following locations:
   a. Glazed lites in exterior doors.
   b. Glazed sidelights and panels next to doors.
   c. Other locations required by applicable federal, state, and local codes and regulations.
   d. Other locations indicated on drawings.
2. Type: Same as Type G1, G2, G3, G4, G5, G6, G7, G8 except use fully tempered float glass for both outboard and inboard lites.
3. Unless specifically indicated on the drawings, glazing shall comply with ICC (IBC) - International Building Code; current editiion for loactions of tempered glazing.

2.06 GLAZING ACCESSORIES

A. Setting Blocks: Silicone, with 80 to 90 Shore A durometer hardness; ASTM C864 Option II. Length of 0.1 inch for each square foot of glazing or minimum 4 inch by width of glazing rabbet space minus 1/16 inch by height to suit glazing method and pane weight and area.

B. Spacer Shims: Neoprene, 50 to 60 Shore A durometer hardness; ASTM C864 Option I. Minimum 3 inches long by one half the height of the glazing stop by thickness to suit application, self adhesive on one face.

C. Glazing Tape, Back Bedding Mastic Type: Preformed, butyl-based, 100 percent solids compoundwith integral resilient spacer rod applicable to application indicated; 10 to 15 cured Shore A durometer hardness; coiled on release paper; black color.
1. Manufacturers:
   a. Pecora Corporation: www.pecora.com.
   b. Tremco Global Sealants: www.tremcosealants.com.
   c. Saint-Gobain Performance Plastics: www.plastics.saint-gobain.com.
   d. Substitutions: See Section 01 6000 - Product Requirements.

D. Glazing Gaskets: Resilient silicone extruded shape to suit glazing channel retaining slot; ASTM C864 Option I; color as selected by Architect.
1. Gaskets to be one piece with factory molded corners.

E. Glazing Clips: Manufacturer's standard type.

PART 3 EXECUTION

3.01 VERIFICATION OF CONDITIONS

A. Verify that openings for glazing are correctly sized and within tolerances, including those for size, squareness, and offsets at corners.

B. Verify that surfaces of glazing channels or recesses are clean, free of obstructions that may impede moisture movement, weeps are clear, and support framing is ready to receive glazing system.
C. Proceed with glazing system installation only after unsatisfactory conditions have been corrected.

3.02 PREPARATION

A. Clean contact surfaces with appropriate solvent and wipe dry within maximum of 24 hours before glazing. Remove coatings that are not tightly bonded to substrates.
B. Seal porous glazing channels or recesses with substrate compatible primer or sealer.
C. Prime surfaces scheduled to receive sealant where required for proper sealant adhesion.

3.03 INSTALLATION, GENERAL

3.04 INSTALLATION - INTERIOR DRY GLAZING METHOD (TAPE AND TAPE)

A. Application - Interior Glazed: Set glazing infills from the interior of the building.
B. Cut glazing tape to length and set against permanent stops, projecting 1/16 inch above sight line.
C. Place setting blocks at 1/4 points with edge block no more than 6 inch from corners.
D. Rest glazing on setting blocks and push against tape for full contact at perimeter of pane or unit.
E. Place glazing tape on free perimeter of glazing in same manner described above.
F. Install removable stop without displacement of tape. Exert pressure on tape for full continuous contact.
G. Carefully trim protruding tape with knife.

3.05 INSTALLATION - EXTERIOR WET/DRY GLAZING METHOD (PREFORMED TAPE AND SEALANT)

A. Application - Exterior Glazed: Set glazing infills from the exterior of the building.
B. Cut glazing tape to length and set against permanent stops, 3/16 inch below sight line. Seal corners by butting tape and dabbing with butyl sealant.
C. Apply heel bead of butyl sealant along intersection of permanent stop with frame ensuring full perimeter seal between glass and frame to complete the continuity of the air and vapor seal.
D. Place setting blocks at 1/4 points with edge block no more than 6 inch from corners.
E. Rest glazing on setting blocks and push against tape and heel bead of sealant with sufficient pressure to attain full contact at perimeter of pane or glass unit.
F. Install removable stops, with spacer strips inserted between glazing and applied stops 1/8 inch below sight lines.
    1. Place glazing tape on glazing pane of unit with tape flush with sight line.
G. Fill gap between glazing and stop with sealant to depth equal to bite of frame on glazing, but not more than 3/8 inch below sight line.
H. Apply cap bead of sealant along void between the stop and the glazing, to uniform line, flush with sight line. Tool or wipe sealant surface smooth.

3.06 CLEANING

A. Remove excess glazing materials from finish surfaces immediately after application using solvents or cleaners recommended by manufacturers.
B. Remove nonpermanent labels immediately after glazing installation is complete.
C. Clean glass and adjacent surfaces after sealants are fully cured.
D. Clean glass on both exposed surfaces not more than 4 days prior to Date of Substantial Completion in accordance with glass manufacturer's written recommendations.

3.07 PROTECTION

A. After installation, mark pane with an 'X' by using removable plastic tape or paste; do not mark heat absorbing or reflective glass units.
B. Remove and replace glass that is damaged during construction period prior to Date of Substantial Completion.

END OF SECTION 08 8000

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SECTION 09 6500

RESILIENT FLOORING

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Furnish all labor, materials, equipment, tools and services required to fully complete all Resilient Flooring work as is indicated on the drawings and/or specified herein including, but not limited to, the following described items.
B. Resilient sheet flooring.
C. Rubber stair flooring, riser, tread, and accessories.
D. Installation accessories.
E. Floor finishing accessories.
F. Do not include sales tax, refer to Section 00 1115 - Advertisement for Prequalification of Bidders.

1.02 RELATED REQUIREMENTS

A. Section 03 3000 - Cast-in-Place Concrete: Restrictions on curing compounds for concrete slabs and floors to receive adhesive-applied resilient flooring.
B. Section 09 0561 - Common Work Results for Flooring Preparation: Independent agency testing of concrete slabs, cleaning, and preparation.
C. Section 09 6800 - Carpeting: Transitions to entrance flooring and broadloom carpet; application of resilient base in carpet contexts.
D. Division 26 - Electrical: Electrical Floor Cover plates for installation of resilient flooring specified in this section.

1.03 REFERENCE STANDARDS

A. ASTM E662 - Standard Test Method for Specific Optical Density of Smoke Generated by Solid Materials; 2021a, with Editorial Revision.
B. ASTM E648 - Standard Test Method for Critical Radiant Flux of Floor-Covering Systems Using a Radiant Heat Energy Source; 2019a, with Editorial Revision (2020).
C. ASTM F1869 - Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride; 2016a.
D. ASTM F2170 - Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs Using in situ Probes; 2019a.
E. ASTM F710 - Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring; 2021.
F. ASTM F970 - Standard Test Method for Measuring Recovery Properties of Floor Coverings after Static Loading; 2017.
G. ASTM F1861 - Standard Specification for Resilient Wall Base; 2021.
H. ASTM F1869 - Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride; 2016a.
I. ASTM F1913 - Standard Specification for Vinyl Sheet Floor Covering Without Backing; 2019.
J. ASTM F2169 - Standard Specification for Resilient Stair Treads; 2015 (Reapproved 2020).
K. ASTM F2170 - Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs Using in situ Probes; 2019a.
L. NFPA 253 - Standard Method of Test for Critical Radiant Flux of Floor Covering Systems Using a Radiant Heat Energy Source; 2019.

M. NFPA 258 - Recommended Practice for Determining Smoke Generation of Solid Materials; 2001.

1.04 SUBMITTALS

A. See Section 01 3000 - Administrative Requirements for submittal procedures.
B. Product Data: Provide data on specified products, describing physical and performance characteristics; including sizes, patterns and colors available; and installation instructions.
C. Shop Drawings: Indicate locations of seams, edges, columns, doorways, enclosing partitions, built-in furniture, cabinets, and cutouts. Provide details of special patterns.
D. Selection Samples: Submit manufacturer's complete set of color samples for Architect's initial selection.
E. Verification Samples: Submit two samples, 12 by 12 inch in size illustrating color and pattern for each resilient flooring product specified.
F. Test Reports: Certified test reports showing compliance with specified performance characteristics and physical properties.
G. Certification: Prior to installation of flooring, submit written certification by flooring manufacturer and adhesive manufacturer that condition of subfloor is acceptable.
H. Maintenance Data: Include maintenance procedures, recommended maintenance materials, and suggested schedule for cleaning, stripping, and re-waxing.
I. Manufacturer's Field Reports: Manufacturer's field reports specified herein.
J. Maintenance Materials: Furnish the following for Owner's use in maintenance of project.
   1. See Section 01 6000 - Product Requirements, for additional provisions.
   2. Extra Flooring Material: 2 cartons or 5 percent of each type and color.
   3. Extra Wall Base: 50 linear feet of each type and color.
   4. Extra Stair Materials (if used): Quantity equivalent to 5 percent of each type and color.

1.05 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in manufacturing specified flooring with minimum three years documented experience.
   1. Whenever possible, provide each type of resilient flooring as provided by a single manufacturer, including recommended primers, adhesives, sealants, and leveling compounds.
B. Installer Qualifications: Company specializing in installing specified flooring with minimum three yearsdocumented experienceand approved by flooring manufacturer.
C. Regulatory Requirements:
   1. Fire Performance Characteristics: Provide resilient linoleum tile flooring with the following fire performance characteristics as determined by testing products in accordance with ASTM method indicated below by a certified testing laboratory or another testing and inspecting agency acceptable to authorities having jurisdiction:
   2. Critical Radiant Flux: Class 1 Rating per NFPA 253 (ASTM E648) (0.45 watts/cm² or greater).
   3. Smoke Density: Less than 450 per NFPA 258 (ASTM E662).

1.06 DELIVERY, STORAGE, AND HANDLING

A. Ordering: Comply with manufacturer's ordering instructions and lead time requirements to avoid construction delays.
B. Delivery: Deliver materials in manufacturer's original, unopened, undamaged containers with identification labels intact.
C. Upon receipt, immediately remove any shrink-wrap and check materials for damage and the correct style, color, quantity and run numbers.

D. Storage and Protection: Store materials protected from exposure to harmful weather conditions and at temperature and humidity conditions recommended by manufacturer.
   1. Material should be stored in areas that are fully enclosed, weathertight with the permanent HVAC system set at a uniform temperature of at least 68 degrees F (20 degrees C) for 48 hrs. prior to, during and after installation.
   2. Move resilient flooring and installation accessories into spaces where they will be installed at least 48 hours before installation, unless longer conditioning periods are required by manufacturer.
E. Protect roll materials from damage by storing as recommended by manufacturer.

1.07 FIELD CONDITIONS

A. Store materials for not less than 48 hours prior to installation in area of installation at a temperature of 70 degrees F to achieve temperature stability. Thereafter, maintain conditions above 55 degrees F.
B. Substrate Conditions: Use the methods described below to determine the dryness and pH as required to ensure initial and long-term success. Testing to be done by an Independent Testing Agency, refer to Section 01 4000.
   1. ASTM F2170 Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs Using in situ Probes.
      a. This test method covers the quantitative determination of percent relative humidity in concrete slabs for field or laboratory tests.
      b. The relative humidity measured from the center of the concrete slab should not exceed 75 percent. If the test results exceed the limitations, the installation must not proceed until the problem has been corrected.
      c. Report the following information:
         1) Name and address of the structure.
         2) Date and time measurements were made. Name, title, and affiliation of worker performing the measurements.
         3) Locations and depths of probe holes within the structure.
         4) Relative humidity in each probe hole, to the nearest percent relative humidity.
         5) Temperature in each probe hole, to the nearest degree Celsius (Fahrenheit).
         6) Ambient air temperature, to the nearest degree Celsius (Fahrenheit) and relative humidity (to the nearest percent relative humidity) above each probe hole.
         7) Make, model, and last calibration date of the instrument used to make the measurements.
         8) Report any observations that might affect the interpretation of individual measurements such as standing water on the slab, wet coring operations, weather, or ventilating system operations.
   2. ASTM F1869 Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride:
      a. This test method covers the quantitative determination of the rate of moisture vapor emitted from below-grade, on-grade, and above-grade (suspended) concrete floors.
      b. The moisture vapor emissions rate should not exceed 5.0 lbs per 1,000 square feet within a 24-hour period. If the test results exceed the limitations, the installation must not proceed until the problem has been corrected.
      c. Number of Tests and Locations:
         1) Perform three tests for the first 1000 ft2 (100 m2) and at least one additional test for each additional 1000 ft2 (100m2). Select test locations to provide information about moisture distribution across the entire concrete floor slab, especially areas of potential high moisture. For slabs on-grade and below-grade, include a test location within 1 m (3 ft) of each exterior wall.

2) The General Contractor shall be responsible for conducting one calcium chloride test for every 1,000 square feet (minimum 3 tests) to ensure concrete moisture emissions do not exceed 5.0 lbs per 1,000 square feet within a 24-hour period. If the test results exceed the limitations, the installation must not proceed until the problem has been corrected.
3) Report the following information:
   (a) Name and address of the structure.
   (b) Date and time measurements were made.
   (c) Name, title, and affiliation of worker performing the measurements.
   (d) Diagram of the area showing the locations of tests within the structure.
   (e) Results of each test conducted
4) Report any observations that might affect the interpretation of individual measurements such as standing water on the slab, wet coring operations, weather, or ventilating system operations.

3. Contingency for High Moisture Readings: If at the time of testing the moisture readings are in excess of 5.0 lbs the General Contractor will initiate testing using petrographic analysis to determine if the Water Cement Ratio and sufficient hydration has taken place. If the Specifications were not followed in their entirety, water/cement ratio (as specified), and or the concrete surface has been inadequately hydrated the Contractor responsible for the placement of the cement shall be responsible for the costs associated with the petrographic analysis and subsequent remediation requirements.
4. Concrete pH Test: Perform pH tests on concrete floors regardless of the age or grade level. If the pH is greater than 10, it must be neutralized prior to beginning the installation.

C. Environmental Requirements/Conditions: In accordance with manufacturer's recommendations, areas to receive flooring should be clean, fully enclosed and weathertight with the permanent HVAC system operational and set at a minimum of 68 degrees F (20 degrees C) for a minimum of 7 days prior to, during, and 7 days after the installation. The flooring material should be conditioned in the same manner for at least 48 hours prior to the installation. Maximum temperature should not exceed 100 degrees F after installation. Areas to receive flooring shall be adequately lighted to allow for proper inspection of the substrate, installation and final inspection.
D. Field Measurements: Verify actual measurements/openings by field measurements before fabrication; show recorded measurements on shop drawings. Coordinate field measurements and fabrication schedule with construction progress to avoid construction delays.
E. Finishing Operations: Install resilient flooring after finishing operations, including painting and ceiling operations, have been completed.

1.08 GUARANTEE

A. The Contractor shall guarantee his work for a period of One (1) year from date of Substantial Completion. Guarantee shall be on form included in Section 01 7800.
B. Manufacturer's Warranty: Submit, for Owner's acceptance, manufacturer's standard warranty document executed by authorized company official. Manufacturer's warranty is in addition to, and not a limitation of, other rights Owner may have under Contract Documents.
   1. Warranty Period: Five (5) year limited warranty commencing on Date of Substantial Completion.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Basis of Design Manufacturer:
   1. Mohawk Group: www.mohawkgroup.com.

B. Substitutions: See Section 01 6000 - Product Requirements.

2.02 SHEET FLOORING

A. Commercial Grade Homogeneous Resilient Sheet without backing, with color and pattern throughout full thickness.
   1. Basis of Design Product:
      a. Medella Fleck (C2061) and Medella Hues (C2062) by Mohawk Group.
      b. Substitutions: See Section 01 6000 - Product Requirements.
   2. Flexibility: ASTM F137.
   3. Classification: ASTM F1303 - Type 1, Grade 1, Class A.
   4. Critical Radiant Flux (CRF): Minimum 0.45 watt per square centimeter, when tested in accordance with ASTM E648 or NFPA 253.
   5. Thickness: 0.080 inch nominal. ASTM F38
   6. Sheet Width: 6' 7" (2.0 m).
   7. Static Load Resistance: 750 psi minimum, when tested as specified in ASTM F970.
   8. Seams: Heat welded.
   9. Colors: Fog 84982, Sage H5632, Deep Grey H5302, Steel Light H5328.

2.03 STAIR COVERING

A. Stair Tread with Integrated Riser: Rubber; full width and depth of stair tread in one piece; tapered thickness; nosing not less than 1-5/8 inch deep.
   1. Minimum Requirements: Comply with FS RR-T-650 requirements corresponding to type specified.
   2. Critical Radiant Flux (CRF): Minimum 0.45 watt per square centimeter, when tested in accordance with ASTM E 648 or NFPA 253.
   3. Nominal Thickness: 0.1875 inch.
   4. Nosing: Square.
   5. Style: Raised disk pattern.
   6. Color: To be selected from manufacturer's full range by Architect.
   7. Manufacturers and Products:
      a. Basis of Design:
         1) Roppe Corp.; Product - "Vantage Raised Circular #96": www.roppe.com.
      b. Other Approved Manufacturers and Products:
         1) Johnsonite, Inc; Product - "Roundel Round Raised Disk, RTR-RD": www.johnsonite.com.
         2) Flexco, Inc.; Product - "Radial II, Type 1700 Textured": www.flexcofloors.com.
      c. Substitutions: See Section 01 6000 - Product Requirements.
B. Stair Treads: Rubber; full width and depth of stair tread in one piece; tapered thickness.
   1. Manufacturers:
      a. Johnsonite, a Tarkett Company: www.johnsonite.com.
      b. Mannington Commercial: www.manningtoncommercial.com.
      c. Roppe Corporation; Rubber Stair Treads: www.roppe.com.
      d. Substitutions: See Section 01 6000 - Product Requirements.
   2. Minimum Requirements: Comply with ASTM F2169, Type TS, rubber, vulcanized thermoset.
   3. Critical Radiant Flux (CRF): Minimum 0.45 watt per square centimeter, when tested in accordance with ASTM E648 or NFPA 253.
   4. Nominal Thickness: 0.1875 inch.
   5. Nosing: Square.
   6. Color: To be selected by Architect from manufacturer's full range.
   7. Style: Contrasting color abrasive grit strips full width.

C. Stair Risers: Full height and width of tread in one piece, matching treads in material and color.
   1. Manufacturers:
      a. Flexco Inc.: www.flexcofloors.com.
      b. Johnsonite, a Tarkett Company; _____: www.johnsonite.com.
      c. Mannington Commercial; _____: www.manningtoncommercial.com.
      d. Substitutions: See Section 01 6000 - Product Requirements.
   2. Thickness: 0.080 inch.

D. Stair Nosings: 1-1/2 inch horizontal return, 1-1/8 inch vertical return, full width of stair tread in one piece.
   1. Manufacturers:
      a. Balco, Inc; IllumiTread Egress: www.balcousa.com.
      b. Johnsonite, a Tarkett Company: www.johnsonite.com.
      c. Mannington Commercial: www.manningtoncommercial.com.
      d. Roppe Corporation: www.roppe.com.
   2. Material: Rubber.
   3. Nominal Thickness: 0.125 inch.
   4. Color: To match stair treads.
   5. Pattern: Abrasive insert strip.

2.04 RESILIENT BASE

A. **Type B2** Resilient Base: ASTM F1861, Type TS rubber, vulcanized thermoset; top set Style B, Cove.
   1. Manufacturers:
      a. Basis of Design:
         1) Mohawk Group Elemental Edges: www.mohawkgroup.com.
         ~~1) Roppe Corp. Vantage Raised Circular #96: www.roppe.com.~~

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   2. Other Approved Manufacturers:
      a. Roppe Corp. Vantage Raised Circular #96: www.roppe.com.
      b. Flexco Inc.: www.flexcofloors.com.
      c. Johnsonite, a Tarkett Company: www.johnsonite.com.
      d. Mannington Commercial: www.manningtoncommercial.com.

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   3. Substitutions: See Section 01 6000 - Product Requirements.
   4. Critical Radiant Flux (CRF): Minimum 0.45 watt per square centimeter, when tested in accordance with ASTM E648 or NFPA 253.
   5. Height: 4 inch.
   6. Thickness: 0.125 inch.
   7. Finish: Satin.
   8. Length: Roll.
   9. Color: ~~To be selected by Architect from manufacturer's full range.~~ Aircraft Carrier 073.
   10. Accessories: Premolded external corners, internal corners, and end stops.

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2.05 ACCESSORIES

A. Subfloor Filler: White premix latex; type recommended by adhesive material manufacturer.
B. Primers, Adhesives, and Seam Sealer: Waterproof; types recommended by flooring manufacturer.
C. Resilient Transition Strips:
   1. Carpet to MCT - CTA-XX-A manufactured by Johnsonite, Inc.
   2. Carpet to Concrete - CTA-XX-P manufactured by Johnsonite, Inc.
   3. MCT to Concrete: SSR-XX-B manufactured by Johnsonite, Inc.
   4. MCT to Stair Nosing - #1 Nosing by ROPPE.
   5. Linoleum to Concrete: RRS-XX-B manufactured by Johnsonite, Inc.

D. Moldings and Edge Strips: Resilient moldings and edge strips.
   1. Manufacturers:
      a. Mannington Commercial: www.manningtoncommercial.com.
E. Sealer and Wax: Types recommended by flooring manufacturer.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that surfaces are flat to tolerances acceptable to flooring manufacturer, free of cracks that might telegraph through flooring, clean, dry, and free of curing compounds, surface hardeners, and other chemicals that might interfere with bonding of flooring to substrate.
B. Verify that wall surfaces are smooth and flat within the tolerances specified for that type of work, are dust-free, and are ready to receive resilient base.
C. Cementitious Subfloor Surfaces: Verify that substrates are ready for resilient flooring installation by testing for moisture and alkalinity (pH).
   1. Test in accordance with Section 09 0561.
   2. Obtain instructions if test results are not within limits recommended by resilient flooring manufacturer and adhesive materials manufacturer.
D. Verify that required floor-mounted utilities are in correct location.

3.02 PREPARATION

A. Adjacent Surfaces Protection: Protect adjacent work areas and finish surfaces from damage during product installation.
B. Surface Preparation: Prepare floor substrate to be smooth, rigid, flat, permanently dry, clean and free of foreign materials such as dust, paint, grease, oils, solvent, curing and hardening compounds, sealers, asphalt and old adhesive residue.
C. Prepare floor substrates as recommended by flooring and adhesive manufacturers.
D. Remove subfloor ridges and bumps. Fill minor low spots, cracks, joints, holes, and other defects with subfloor filler to achieve smooth, flat, hard surface.
E. Prohibit traffic until filler is fully cured.
F. Clean substrate.
G. Apply primer as required to prevent "bleed-through" or interference with adhesion by substances that cannot be removed.

3.03 INSTALLATION - GENERAL

A. Starting installation constitutes acceptance of subfloor conditions.
B. Install in accordance with manufacturer's written instructions.
C. Adhesive-Applied Installation:
   1. Spread only enough adhesive to permit installation of materials before initial set.
   2. Fit joints and butt seams tightly.
   3. Set flooring in place, press with heavy roller to attain full adhesion.
D. Loose-Laid Installation: Set flooring in place in accordance with manufacturer's instructions.
E. Where type of floor finish, pattern, or color are different on opposite sides of door, terminate flooring under centerline of door.
F. Install edge strips at unprotected or exposed edges, where flooring terminates, and where indicated.
   1. Metal Strips: Attach to substrate before installation of flooring using stainless steel screws.
   2. Resilient Strips: Attach to substrate using adhesive.
G. Scribe flooring to walls, columns, cabinets, floor outlets, and other appurtenances to produce tight joints.

H. Install flooring in recessed floor access covers, maintaining floor pattern.
I. At movable partitions, install flooring under partitions without interrupting floor pattern.
J. Install custom designs, patterns and feature strips where indicated.

3.04 INSTALLATION - SHEET FLOORING

A. Lay flooring with joints and seams parallel to longer room dimensions, to produce minimum number of seams. Lay out seams to avoid widths less than 1/3 of roll width; match patterns at seams.
B. Seams are prohibited in bathrooms, kitchens, toilet rooms, and custodial closets.
C. Seal seams by heat welding where indicated.
D. Chemically bond seams using seam sealer where indicated.

3.05 INSTALLATION - TILE FLOORING

A. Where demountable partitions and other items are indicated for installation on top of finished flooring, install flooring before these items are installed.
B. Lay out tiles from center marks established with principal walls, discounting minor offsets, so tiles at opposite edges of room are of equal width. Adjust as necessary to avoid using cut widths that equal less than one-half of a tile at perimeter
C. Lay tiles square with room axis, unless otherwise indicated CL Match tiles for color and pattern by selecting tiles from cartons in the same sequence as manufactured and packaged, if so numbered. Cut tiles neatly around all fixtures.
   1. Discard broken, cracked, chipped, or deformed tiles.
D. Lay border/accent tiles with grain running in one direction.
E. Lay field color tiles in basket-weave pattern with grain direction alternating in adjacent tiles.
F. Scribe, cut, and fit tiles to butt neatly and tightly to vertical surfaces and permanent fixtures, including built-in furniture, cabinets, pipes, outlets, edgings, door frames, thresholds, and nosings.
G. Extend tiles into toe spaces, door reveals, closets, and similar openings.
H. Maintain reference markers, holes, and openings that are in place or marked for future cuffing by repeating on finish flooring as marked on subfloor. Use chalk or other non-permanent, non-staining marking device.
I. Adhere tiles to flooring substrates using a full spread of adhesive applied to substrate to comply with tile manufacturer's written instructions, including those for trowel notching, adhesive mixing, and adhesive open and working times
J. Provide completed installation without open cracks, voids, raising and puckering at joints, telegraphing of adhesive spreader marks, and other surface imperfections.
K. Roll resilient flooring using 100 lbs roller as required by resilient flooring manufacturer.
L. Do not install resilient flooring over expansion joints. Use expansion joint covers manufactured for use with resilient flooring. Refer to Section 07 9513 for expansion joint covers.
M. Finish Flooring Patterns: As selected and detailed by Architect.

3.06 INSTALLATION - RESILIENT BASE

A. Fit joints tightly and make vertical. Maintain minimum dimension of 18 inches between joints.
B. Miter internal corners. At external corners, use premolded units. At exposed ends, use premolded units.
C. Install base on solid backing. Bond tightly to wall and floor surfaces.
D. Scribe and fit to door frames and other interruptions.

3.07 INSTALLATION - STAIR COVERINGS

A. Install stair coverings in one piece for full width and depth of tread.

B. Install stringers configured tightly to stair profile.
C. Adhere over entire surface. Fit accurately and securely.

3.08 CLEANING

A. Remove excess adhesive from floor, base, and wall surfaces without damage.
B. Clean resilient flooring in accordance with manufacturer's instructions.
C. Tile Flooring:
   1. Sweep and/or dust all floors.
   2. Scrub floor using “Stride” neutral cleaner. Rinse floor thoroughly.
   3. Do not perform initial maintenance for a minimum of 5 days after installation has been completed. This is to allow the adhesive the proper time to set.

3.09 PROTECTION

A. Prohibit traffic on resilient flooring for 48 hours after installation.
B. Protect installed product and finish surfaces from damage during construction. Remove and dispose of protective covering at time of Substantial Completion.

3.10 SCHEDULE - REFER TO DRAWINGS

END OF SECTION 09 6500

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SECTION 10 2800

TOILET, BATH, AND UTILITY ACCESSORIES

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Furnish all labor, materials, equipment, tools and services required to fully complete all Toilet, Bath and Utility Accessory work as is indicated on the drawings and/or specified herein including, but not limited to, the following described items.
B. Commercial toilet accessories.
C. Accessories for toilet rooms, showers, and utility rooms.
D. ~~Toilet tissue holder, paper towel dispenser~~, soap dispenser.
E. Electric hand/hair dryers.
F. Mirrors.
G. Utility room accessories.
H. Do not include sales tax, refer to Section 00 1115 - Advertisement for Prequalification of Bidders.

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1.02 RELATED REQUIREMENTS

A. Section 09 3000 - Tiling.
B. Section 10 2114 - Phenolic Toilet Compartments.
C. Section 22 4000 - Plumbing Fixtures: Under-lavatory pipe and supply covers.

1.03 OWNER FURNISHED ITEMS (N.I.C.)

A. The following shall be supplied by the Owner for installation by the Contractor.
   1. Refer to Section 01 1000 for owner supplied items.
      a. Waste receptacle.

1.04 REFERENCE STANDARDS

A. ASTM A123/A123M - Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products; 2017.
B. ASTM A269/A269M - Standard Specification for Seamless and Welded Austenitic Stainless Steel Tubing for General Service; 2015a (Reapproved 2019).
C. ASTM A653/A653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process; 2020.
D. ASTM A666 - Standard Specification for Annealed or Cold-Worked Austenitic Stainless Steel Sheet, Strip, Plate, and Flat Bar; 2015.
E. ASTM B456 - Standard Specification for Electrodeposited Coatings of Copper Plus Nickel Plus Chromium and Nickel Plus Chromium; 2017.
F. ASTM C1036 - Standard Specification for Flat Glass; 2021.
G. ASTM C1048 - Standard Specification for Heat-Strengthened and Fully Tempered Flat Glass; 2018.

1.05 ADMINISTRATIVE REQUIREMENTS

A. Coordinate the work with the placement of internal wall reinforcement and reinforcement of toilet partitions to receive anchor attachments.

1.06 SUBMITTALS

A. See Section 01 3000 - Administrative Requirements, for submittal procedures.

B. Product Data: Submit data on accessories describing size, finish, details of function, and attachment methods.
C. Manufacturer's Installation Instructions: Indicate special procedures and conditions requiring special attention.

1.07 GUARANTEE

A. Provide Manufacturer Product Warranties on installed products.
B. The Contractor shall guarantee his work for a period of One (1) year from date of Substantial Completion. Guarantee shall be on form included in Section 01 7800.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Basis of Design Manufacturer:
   1. Bradley Corporation: www.bradleycorp.com.
B. Other Manufacturers
   1. AJW Architectural Products: www.ajw.com.
   2. American Specialties, Inc: www.americanspecialties.com.
   3. Bobrick Washroom Equipment Inc: www.bobrick.com.
   4. American Accessories Inc: www.aaiusaonline.com.
   5. Columbia Accessories: www.psisc.com.
   6. Seachrome: www.seachrome.com
   7. Substitutions: Section 01 6000 - Product Requirements.
C. Provide products of each category type by single manufacturer.

2.02 MATERIALS

A. Accessories - General: Shop assembled, free of dents and scratches and packaged complete with anchors and fittings, steel anchor plates, adapters, and anchor components for installation.
   1. Grind welded joints smooth.
   2. Fabricate units made of metal sheet of seamless sheets with flat surfaces.
B. Keys: Provide 2 keys for each accessory to Owner; master key lockable accessories.
C. Stainless Steel Sheet: ASTM A666, Type 304.
D. Stainless Steel Tubing: ASTM A269/A269M, Grade TP304 or TP316.
E. Galvanized Sheet Steel: Hot-dipped galvanized steel sheet, ASTM A653/A653M, with G90/Z275 coating.
F. Mirror Glass: Tempered safety glass, ASTM C1048; and ASTM C1036 Type I, Class 1, Quality Q2, with silvering as required.
G. Adhesive: Two component epoxy type, waterproof.
H. Fasteners, Screws, and Bolts: Hot dip galvanized; tamper-proof; security type.
I. Expansion Shields: Fiber, lead, or rubber as recommended by accessory manufacturer for component and substrate.

2.03 FINISHES

A. Stainless Steel: Satin finish, unless otherwise noted.
B. Chrome/Nickel Plating: ASTM B456, SC 2, polished finish, unless otherwise noted.
C. Baked Enamel: Pretreat to clean condition, apply one coat primer and minimum two coats epoxy baked enamel.
D. Powder-Coated Steel: Clean, degrease, and neutralize. Follow immediately with a phosphatizing treatment, prime coat, and two finish coats of powder coat enamel.
E. Galvanizing for Items Other than Sheet: Comply with ASTM A123/A123M; galvanize ferrous metal and fastening devices.

F. Shop Primed Ferrous Metals: Pretreat and clean, spray apply one coat primer and bake.
G. Back paint components where contact is made with building finishes to prevent electrolysis.

2.04 TOILET ROOM ACCESSORIES

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A. Electric Hand Dryer:
   1. Bobrick; Quietdry Series Trimdry B-7128.
   2. Cover: Stainless Steel
   3. Motor:
      a. Electrical Supply: 115V.

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~~B. Toilet Paper Dispenser: Double roll, surface-mounted, stainless steel unit with pivot hinge, tumbler lock.~~
~~C. Paper Towel Dispenser: Electric, roll paper type.~~
   ~~1. Cover: Stainless steel.~~
   ~~2. Paper Discharge: Touchless automatic.~~
   ~~3. Capacity: 8 inch diameter roll.~~
   ~~4. Mounting: Surface mounted.~~
   ~~5. Power: Battery operated.~~
   ~~6. Refill Indicator: Illuminated refill indicator.~~
~~D. Automated Soap Dispenser: Liquid soap dispenser, wall-mounted, with stainless steel cover and window to gage soap level, tumbler lock.~~
E. Soap Dispenser: Liquid soap dispenser, wall-mounted, surface, with stainless steel cover and horizontal stainless steel tank and working parts; push type soap valve, check valve, and window gauge refill indicator, tumbler lock.
   1. Minimum Capacity: 48 ounces.
F. Mirrors: Stainless steel framed, 1/4 inch thick tempered safety glass; ASTM C1048.
   1. Size: As indicated on drawings.
   2. Frame: 0.05 inchangle shapes, with mitered and welded and ground corners, and tamperproof hanging system; satin finish.
   3. Backing: Full-mirror sized, minimum 0.03 inch galvanized steel sheet and nonabsorptive filler material.
   4. Products:
      a. 781 Series manufactured by Bradley Corporation.
      b. Substitutions: Section 01 6000 - Product Requirements.
G. ADA Toilet Grab Bars: Stainless steel, textured surface, 1-1/2 inches outside diameter, minimum 0.05 inch wall thickness, nonslip grasping surface finish, concealed flange mounting; 1-1/2 inches clearance between wall and inside of grab bar.
   1. Length and configuration: As indicated on drawings.
   2. Product: 812 Series manufactured by Bradley Corporation
   3. Substitutions: Section 01 6000 - Product Requirements.
~~H. Combination Sanitary Napkin/Tampon Dispenser with Disposal: Stainless steel, surface-mounted.~~

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   ~~1. Door: Seamless 0.05 inch door with returned edges and tumbler lock.~~
   ~~2. Cabinet: Fully welded, 0.03 inch thick sheet.~~
   ~~3. Operation: 25 cent coin required to operate dispenser. Provide locked coin box, separately keyed.~~
   ~~4. Identify dispensers slots without using brand names.~~
   ~~5. Minimum capacity: 30 napkins and 18 tampons.~~
   ~~6. Products:~~
      ~~a. 426 manufactured by Bradley Corporation.~~
      ~~b. Substitutions: Section 01 6000 - Product Requirements.~~

I. Sanitary Napkin Disposal Unit: Stainless steel, surface-mounted, self-closing door, full-length stainless steel piano-type hinge, removable receptacle with tumbler lock.
   1. Products:
      a. 4722-15 manufactured by Bradley Corporation.
      b. 4781-11 manufactured by Bradley Corporation.
      c. Substitutions: Section 01 6000 - Product Requirements.

2.05 UTILITY ROOM ACCESSORIES

A. Combination Utility Shelf/Mop and Broom Holder: 0.05 inch thick stainless steel, Type 304, with 1/2 inch returned edges, 0.06 inch steel wall brackets.
   1. Hooks: 0.06 inch (1.6 mm) stainless steel rag hooks at shelf front.
   2. Mop/broom holders: Three spring-loaded rubber cam holders at shelf front.
   3. Length: Manufacturer's standard length for number of holders/hooks indicated on Drawings.
   4. Products:
      a. Product: 9933/9934 manufactured by Bradley Corporation.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify existing conditions before starting work.
B. Verify exact location of accessories for installation.
C. Verify that field measurements are as indicated on shop drawings.

3.02 PREPARATION

A. Deliver inserts and rough-in frames to site for timely installation.
B. Provide templates and rough-in measurements as required.

3.03 INSTALLATION

A. Install accessories in accordance with manufacturers' instructions in locations indicated on drawings.
B. Install plumb and level, securely and rigidly anchored to substrate.
C. Mounting Heights: As required by accessibility regulations, unless otherwise indicated.

3.04 PROTECTION

A. Protect installed accessories from damage due to subsequent construction operations.

END OF SECTION 10 2800

SECTION 10 5100

METAL LOCKERS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Furnish all labor, materials, equipment, tools and services required to fully complete all Metal Locker work as is indicated on the drawings and/or specified herein including, but not limited to, the following described items.

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B. Heavy-duty all-welded lockers for:
   1. Reading Facilitator Room.
   2. Kitchen.

~~C. Metal lockers.~~
   ~~1. Standard duty knock down lockers.~~
   ~~2. Heavy duty knock down lockers.~~
      ~~a. Kitchen with standard perforations.~~

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   3. ADA-Compliant lockers of all types specified, per latest regulations.

D. Metal tops, sloped.

1.02 RELATED REQUIREMENTS

A. Section 03 3000 - Cast-in-Place Concrete: Concrete base construction.
B. Section 06 1000 - Rough Carpentry: Wood blocking and nailers.

1.03 REFERENCE STANDARDS

A. ADA Standards - Americans with Disabilities Act (ADA) Standards for Accessible Design; 2010.
B. ADAAG - ADA Accessibility Guidelines (ADAAG); 2002.
C. ASTM A653/A653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process; 2020.

1.04 SUBMITTALS

A. See Section 01 3000 - Administrative Requirements, for submittal procedures.
B. Product Data: Manufacturer's published data on locker construction, sizes and accessories.
C. Shop Drawings: Indicate locker plan layout, numbering plan and combination lock code.
D. Samples: Submit two samples 12 by 12 inches in size showing color and finish of metal locker material.
E. Manufacturer's Installation Instructions: Indicate component installation assembly.

1.05 DELIVERY, STORAGE, AND HANDLING

A. Protect locker finish and adjacent surfaces from damage.

1.06 GUARANTEE

A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of metal lockers that fail in materials or workmanship, excluding finish, within specified warranty period.
   1. Failures include, but are not limited to, the following:
      a. Structural failures.
      b. Faulty operation of latches and other door hardware.
   2. Damage from deliberate destruction and vandalism is excluded.

3. Warranty Period for All-Welded Metal Lockers: 10 years from date of Substantial Completion.

B. Contractor shall guarantee his work for a period of One (1) year from date of Substantial Completion. Guarantee shall be on form included in Section 01 7800.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Acceptable Manufacturers:
1. Penco Products, Inc: www.pencoproducts.com.
2. Lyon Work Space Products, LLC.: www.lyonworkspace.com.
3. List Industries, Inc. (Classmate Unibody All-Welded Locker): www.listindustries.com.
4. Other manufacturers as approved by Architect prior to bidding.

B. Requests for substitutions will be considered in accordance with provisions of Section 01 6000.

C. Provide all metal lockers from a single manufacturer.

2.02 MATERIALS

A. Steel: Sheet steel components to be fabricated using zinc-coated steel free from surface imperfection, capable of taking a high-grade enamel finish, and compliant with ASTM A879/A879M.

B. Hooks: Zinc-plated forged steel, ball ends.

C. Bolts and Nuts: Zinc-plated truss fin head bolts and hex nuts.

2.03 HEAVY DUTY ATHLETIC LOCKERS

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A. Heavy Duty All-Welded Lockers: All locker body components made of cold-rolled steel specially formed for added strength and rigidity and to ensure tight joints at fastening points. All-
1. Kitchen:
   a. Single Tier: 15 inches wide by 15 inches deep by 72 inches high
   b. Provide hooks on each side of locker interior.
2. Reading Facilitator:
   a. Two-tier, single point latch locker. ~~12~~ 15 inches wide by ~~12~~ 15 inches deep by 72 inches high; welded channel base by locker manufacturer.

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B. Locker Body Components (All-Welded ~~Corridor and Kitchen~~ Lockers):
1. Sides, Bottoms, Tops, and Shelves:
   a. 16 gauge steel.
2. Backs: Solid 18 gauge steel.
   a. Groups to 48 inches (1.219 m) wide: One piece back.
   b. Groups over 48 inches (1.219 m) wide: Two piece back.
3. Doors:
   a. 14 gauge steel.
4. Sides: Vertical frames and sides.
   a. Intermediate Vertical Side Frames: Another frame channel securely welded to side frame.
   b. No Ventilation; solid sides.
5. Tops: Notched and formed sheet; one continuous flat top for each group of lockers.
6. Bottoms: Notched and formed sheet; one continuous bottom for each group of lockers suitable for anchoring to wood or concrete bases.
7. Shelves: Flanged on four sides with additional return flange on front edge to increase strength.
8. Door Frames: 16 gauge formed in a channel shape with continuous vertical door strikes.

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C. Locker Doors: One piece sheet steel.

1. Ventilation:
    a. Provide louvered doors in manufacturer's standard inverted (inside) mini-louver pattern, louvers 5/8 inch (15.8 mm) wide and 1/4 inch (6.3 mm) high.

D. Hinges: Continuous piano hinge for the full height of the door.

E. Accessories:
1. Number Plates: Provide each locker with a polished aluminum number plate, 2-1/4 inches (57 mm) wide by 1 inch (25 mm) high, with black numerals not less than 3/8 inch (9.5 mm) high; attach to face of door with two aluminum rivets.
2. Continuous Sloped Hoods (at Kitchen lockers only): 16 gauge steel, slope rise equal to 1/3 of the locker depth (18.5 degrees), plus a 1 inch (25 mm) vertical rise at front.
    a. Supplied in 72 inch (1829 mm) lengths only.
    b. Slip joints without visible fasteners at splice locations.
    c. Provide necessary end closures.
    d. Finish to match lockers.
3. Finished End Panels: Minimum 16 gauge steel formed to match locker depth and height, 1 inch (25 mm) edge dimension; finish to match lockers; install with concealed fasteners.
4. Front Fillers: 20 gauge steel formed in an angle shape, with 20 gauge slip joint angles formed in an angle shape with double bend on one leg forming a pocket to provide adjustable mating with angle filler.
    a. Attachment by means of concealed fasteners.
    b. Finish to match lockers.

2.04 FABRICATION

A. Locker Finish: Powder Coat Paint.
1. Powder Coat - Dry Thickness: 1 to 1.2 mils (.025 to 0.03 mm).
2. Color: As selected by Architect from manufacturer's standard colors.

B. Fabricate lockers square, rigid, without warp, with metal faces flat and free of distortion.

C. Finish: Enamel powder coat paint finish electrostatically applied and properly cured to manufacturer’s specifications for optimum performance. Finishes containing volatile organic compounds and subject to out-gassing are not acceptable. Locker exterior and interior shall be painted the same color.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that prepared bases are in correct position and configuration.

3.02 INSTALLATION

A. Install in accordance with manufacturer's instructions.

B. Place and secure on prepared base.

C. Install lockers plumb and square.

D. Secure lockers with anchor devices to suit substrate materials. Minimum Pullout Force: 100 pounds.

E. Bolt adjoining locker units together to provide rigid installation.

F. Install end panels, filler panels, and sloped tops.

G. Install fittings if not factory installed.

H. Replace components that do not operate smoothly.

3.03 CLEANING

A. Clean locker interiors and exterior surfaces.

END OF SECTION 10 5100

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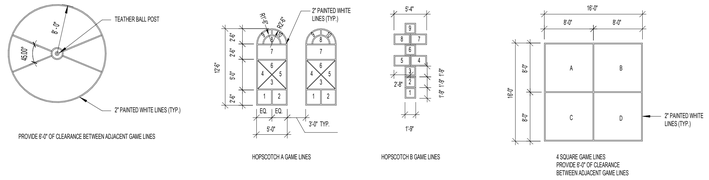
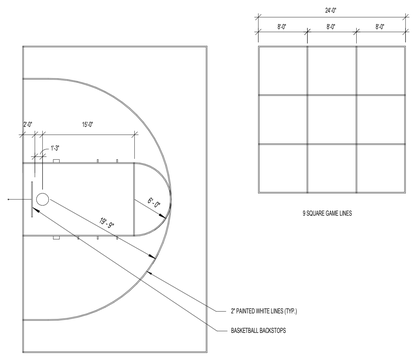
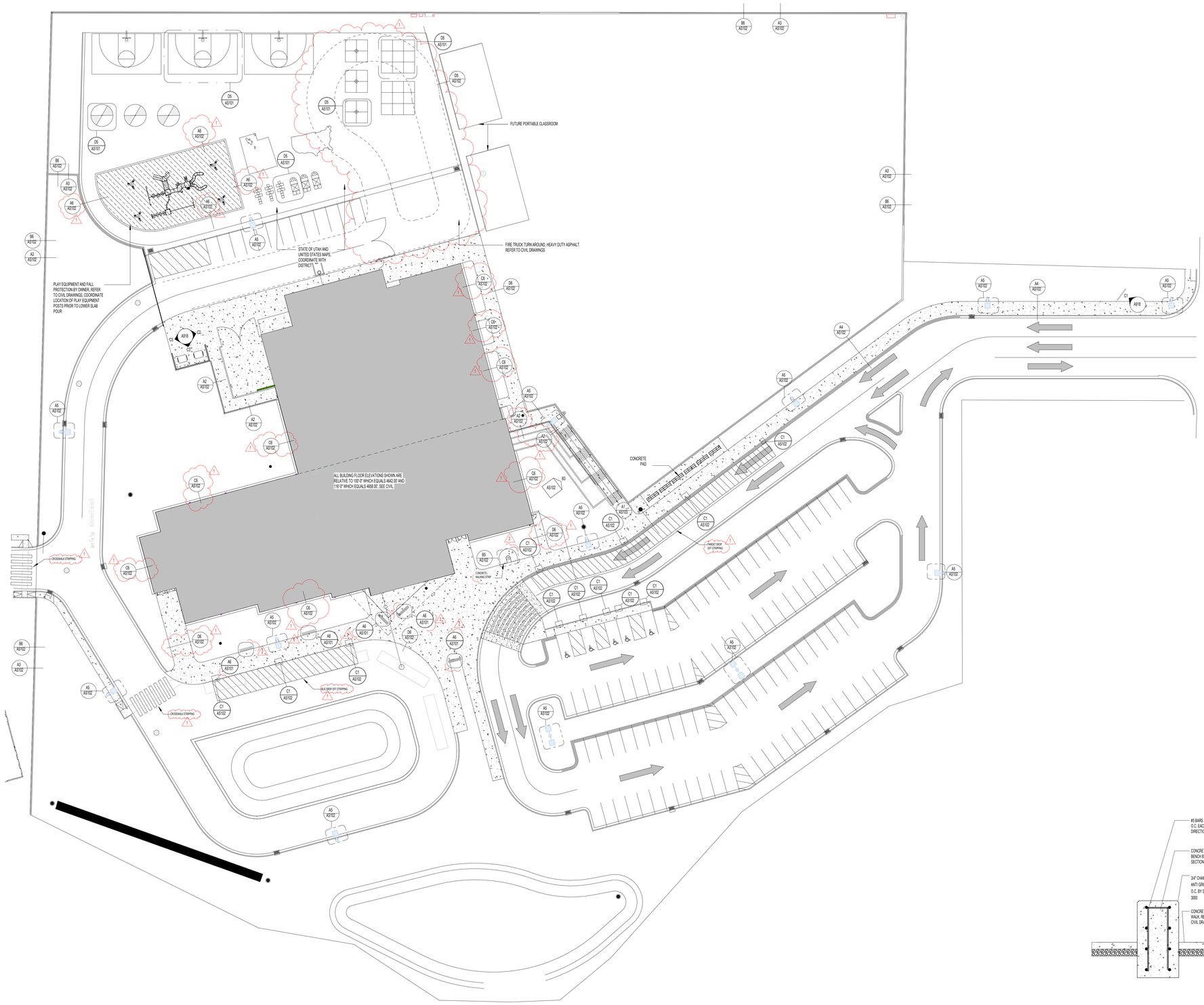
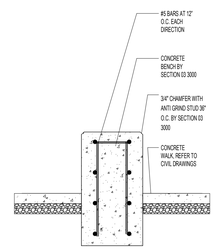




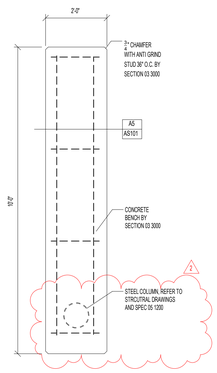
D6 AS101 **PLAYGROUND STRIPING**
1" = 10'-0"



A1 AS101 **SITE PLAN**
1" = 30'-0"



A5 AS101 DETAIL
Scale: 1/2" = 1'-0"



A6 AS101 DETAIL
Scale: 1/2" = 1'-0"

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CACHE COUNTY
SCHOOL DISTRICT

HYDE PARK ELEMENTARY SCHOOL
335 EAST 200 NORTH
HYDE PARK CITY, UT
84318

DRAWING ISSUE	BID SET
ISSUE DATE	02/25/2025
NWL PROJECT	0119.002

STATE OF UTAH
NAYLOR WENTWORTH LUND ARCHITECTS
#319164
#183992
#7247356
LICENSED ARCHITECT

	DATE	REVISION
1	04/01/2025	ADDENDUM 2
2	4/8/2025	ADDENDUM 3

ARCHITECTURAL SITE PLAN

AS101

GENERAL NOTES - REFERENCE PLANS

1. ALL BUILDING FLOOR ELEVATIONS SHOWN ARE RELATIVE TO 100'-0" WHICH EQUALS 4642.00' AND 116'-0" WHICH EQUALS 4658.00'. SEE CIVIL.
2. SEE FLOOR FINISH SCHEDULE FOR REQUIRED RECESSED SLAB LOCATIONS. REFER TO STRUCTURAL DRAWINGS FOR REQUIREMENTS TO RECESS SLAB ON UPPER FLOOR.
3. VAPOR BARRIER REQUIRED UNDER ALL SLAB-ON-GRADE CONDITIONS. REFER TO SPECIFICATION SECTION 03 3000.
4. INSTALL FIRE-TREATED SOLID WOOD BLOCKING AT ALL ACCESSORY MOUNTING LOCATIONS INCLUDING BUT NOT LIMITED TO: VISUAL DISPLAY BOARDS, CABINETS AND CASEWORK, TOILET PARTITIONS, DOOR STOPS, GRAB BARS, ETC.
5. CONTRACTOR WILL BE REQUIRED TO INSTALL OWNER PROVIDED RECESSED KNOX-BOX IN TWO SEPARATE LOCATIONS. EXACT MOUNTING LOCATIONS SHALL BE COORDINATED WITH THE LOCAL FIRE AUTHORITY, OWNER, AND ARCHITECT. PROVIDE WALL BLOCKING FOR THROUGH BOLT INSTALLATION.
6. INSTALL CONCRETE CURB WHERE CONDUITS PENETRATE CONCRETE SLAB. REFER TO DETAIL E3/A101b
7. REFER TO SHEET G501 & G502 FOR FIRESTOPPING PENETRATION DETAILS.
8. WALLS & COLUMNS SHOWN AS SHADED GREY INDICATE CONCRETE WALLS & COLUMNS - SEE STRUCTURAL DETAILS, TYPICAL.
9. ALL WALLS TERMINATE AT DECK UNLESS NOTED OTHERWISE.
10. REFER TO MOUNTING HEIGHTS SCHEDULE ON INTERIOR ELEVATION SHEETS FOR PLACEMENT OF ELEMENTS ON WALLS

CORNER FINISH SYMBOLS

B1	SINGLE CHAMFERED MASONRY, REFER TO DETAIL E1/A101b
B2	DOUBLE CHAMFERED MASONRY, REFER TO DETAIL E2/A101b
CJ	CMU CONTROL JOINT. REFER TO EXTERIOR/INTERIOR ELEVATIONS
RD	ROOF DRAIN LINE DROP LOCATION, REFER TO PLUMBING DRAWINGS
CG1	STAINLESS STEEL CORNER GUARD, REFER TO INTERIOR ELEVATIONS
CG2	STAINLESS STEEL CORNER GUARDS IN FOOD PREP AREAS. REFER TO SPECIFICATION SECTION 11 4000, AND FOOD SERVICE DRAWINGS
CG3	STAINLESS STEEL 180° CORNER GUARD, REFER TO INTERIOR ELEVATIONS

WALL COLOR LEGEND

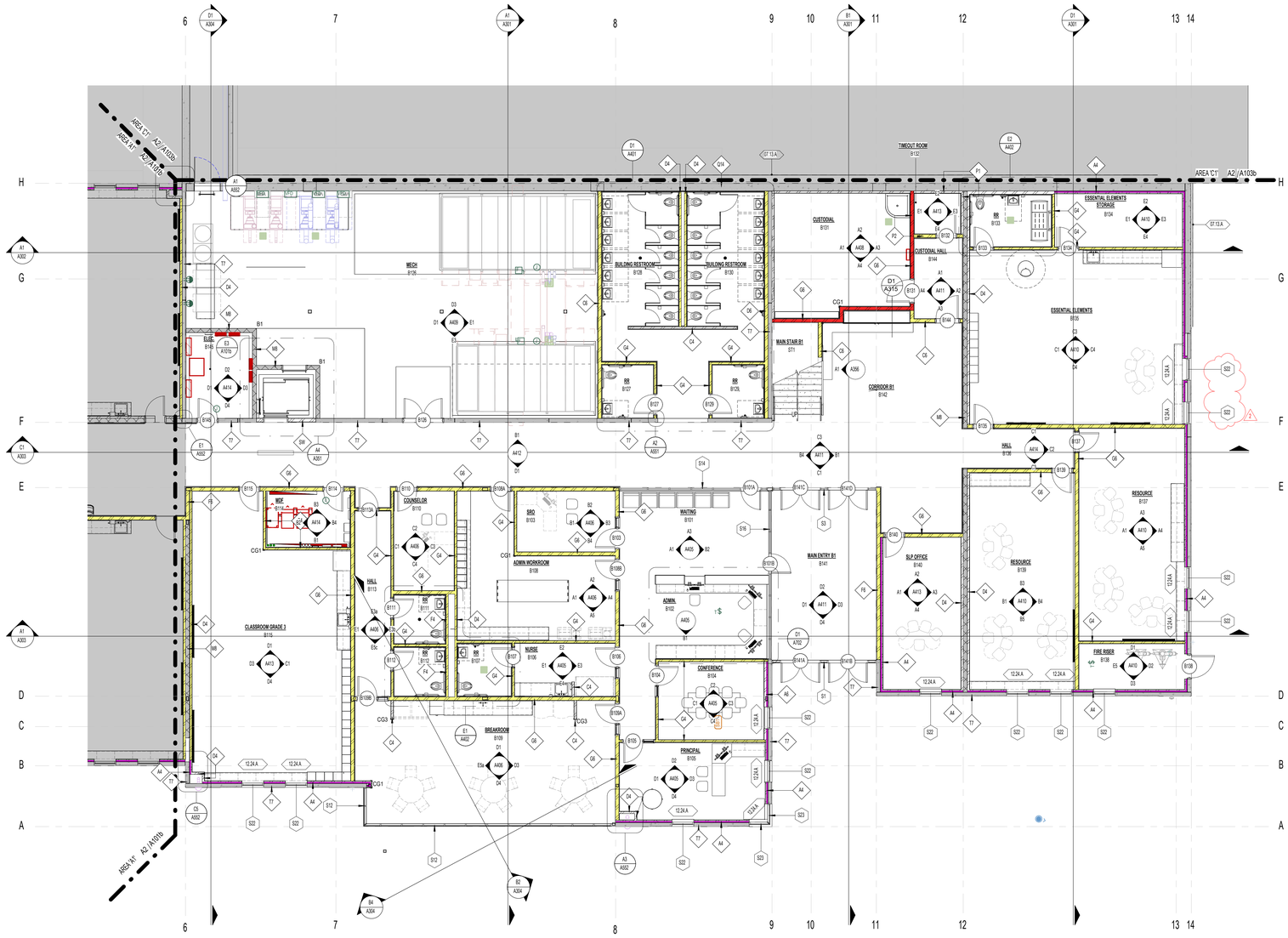
LINE SYMBOL LEGEND

REFER TO SHEET G101 FOR WALL TYPES, UL LISTINGS, AND ASSOCIATED DETAILS.

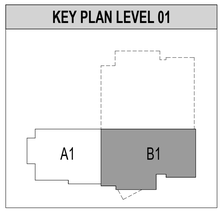
	ACCOUSTICAL SOUND BATT INSULATION STUD WALL
	3" SPRAY FOAM INSULATION IN STUD WALL
	1 HOUR FIRE WALL
	STANDARD STUD WALL
	CONCRETE WALL
	MASONRY WALL

NWL-LEGEND - KEYNOTE

KEY VALUE	NOTE
07.13.A	07 1300 - MODIFIED BITUMINOUS SHEET MEMBRANE ON FACE OF CONCRETE WITH DRAINAGE PANEL AND PROTECTION BOARD.
12.24.A	12 2413 - ROLLER WINDOW SHADES ON SOUTH CLASSROOM WINDOWS. REFER TO STOREFRONT ELEVATIONS



A2 AREA B1 REFERENCE FLOOR PLAN
1/8" = 1'-0"



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CACHE COUNTY SCHOOL DISTRICT

HYDE PARK ELEMENTARY SCHOOL
330 EAST 300 NORTH
HYDE PARK CITY, UT 84318

DRAWING ISSUE	BID SET
ISSUE DATE	02/25/2025
NWL PROJECT	0119.002

STATE OF UTAH
NAYLOR WENTWORTH LUND ARCHITECTS
#319164
#183992
#7247356
LICENSED ARCHITECT

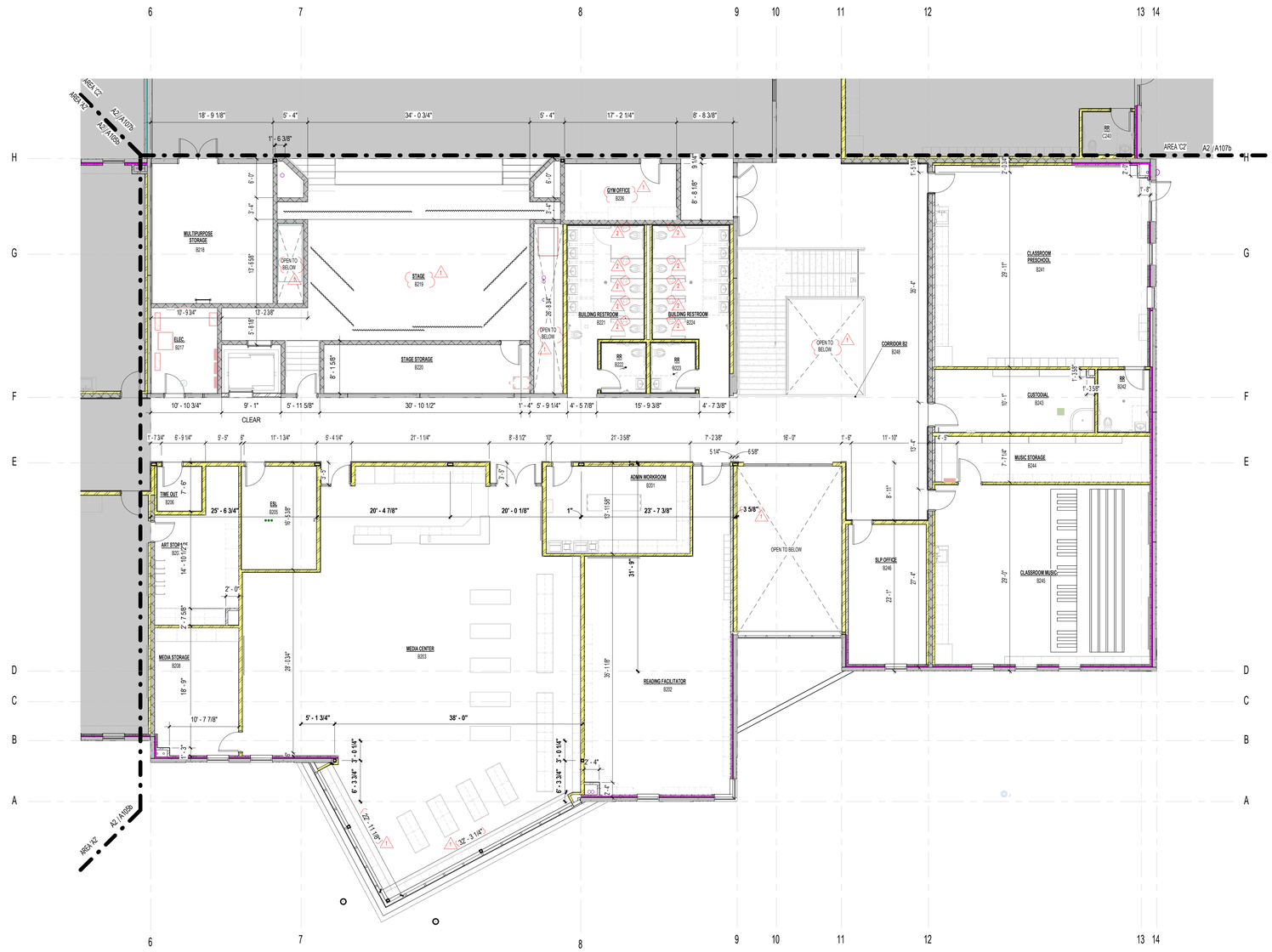
	DATE	REVISION
2	4/8/2025	ADDENDUM 3

AREA B1 REFERENCE FLOOR PLAN

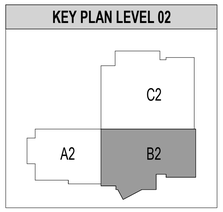
A102b

GENERAL NOTES - DIMENSION PLANS

1. MASONRY DIMENSIONS ARE FROM FACE OF MASONRY TO FACE OF MASONRY .
2. METAL STUD WALL DIMENSIONS ARE FROM FACE OF STUD TO FACE OF STUD.
3. WHERE 'CLEAR' DIMENSIONS ARE NOTED, DIMENSIONS IS FROM FACE OF SCHEDULED FINISH TO FACE OF SCHEDULED FINISH
4. REFER TO 900 SHEETS FOR TILT-UP PANEL DIMENSIONS
5. REFER TO ENLARGED PLANS FOR FURTHER DIMENSIONING.
6. REFER TO SLAB EDGE PLANS FOR ALL FLOOR OPENING DIMENSIONS.
7. REFER TO WALL TYPE SHEETS FOR STC RATINGS OF EACH WALL TYPE.



1 LEVEL B2 DIMENSION FLOOR PLAN
A106a 1/8" = 1'-0"



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CACHE COUNTY
SCHOOL DISTRICT

HYDE PARK ELEMENTARY SCHOOL
333 EAST 300 NORTH
HYDE PARK CITY, UT
84318

DRAWING ISSUE	BID SET
ISSUE DATE	03/25/2025
NWL PROJECT	0119.002

STATE OF UTAH
NAYLOR WENTWORTH LUND ARCHITECTS
#319164
#183992
#7247356
LICENSED ARCHITECT

	DATE	REVISION
1	04/01/2025	ADDENDUM 2
2	4/8/2025	ADDENDUM 3

AREA B2 DIMENSION FLOOR PLAN

A106a

GENERAL NOTES - REFERENCE PLANS

1. ALL BUILDING FLOOR ELEVATIONS SHOWN ARE RELATIVE TO 100'-0" WHICH EQUALS 4642.00' AND 116'-0" WHICH EQUALS 4658.00'. SEE CIVIL.
2. SEE FLOOR FINISH SCHEDULE FOR REQUIRED RECESSED SLAB LOCATIONS. REFER TO STRUCTURAL DRAWINGS FOR REQUIREMENTS TO RECESS SLAB ON UPPER FLOOR.
3. VAPOR BARRIER REQUIRED UNDER ALL SLAB-ON-GRADE CONDITIONS. REFER TO SPECIFICATION SECTION 03 3000.
4. INSTALL FIRE-TREATED SOLID WOOD BLOCKING AT ALL ACCESSORY MOUNTING LOCATIONS INCLUDING BUT NOT LIMITED TO: VISUAL DISPLAY BOARDS, CABINETS AND CASEWORK, TOILET PARTITIONS, DOOR STOPS, GRAB BARS, ETC.
5. CONTRACTOR WILL BE REQUIRED TO INSTALL OWNER PROVIDED RECESSED KNOX-BOX IN TWO SEPARATE LOCATIONS. EXACT MOUNTING LOCATIONS SHALL BE COORDINATED WITH THE LOCAL FIRE AUTHORITY, OWNER, AND ARCHITECT. PROVIDE WALL BLOCKING FOR THROUGH BOLT INSTALLATION.
6. INSTALL CONCRETE CURB WHERE CONDUITS PENETRATE CONCRETE SLAB. REFER TO DETAIL E3A101b
7. REFER TO SHEET G501 & G502 FOR FIRESTOPPING PENETRATION DETAILS.
8. WALLS & COLUMNS SHOWN AS SHADED GREY INDICATE CONCRETE WALLS & COLUMNS - SEE STRUCTURAL DETAILS, TYPICAL.
9. ALL WALLS TERMINATE AT DECK UNLESS NOTED OTHERWISE.
10. REFER TO MOUNTING HEIGHTS SCHEDULE ON INTERIOR ELEVATION SHEETS FOR PLACEMENT OF ELEMENTS ON WALLS

CORNER FINISH SYMBOLS

B1	SINGLE CHAMFERED MASONRY, REFER TO DETAIL E1A101b
B2	DOUBLE CHAMFERED MASONRY, REFER TO DETAIL E2A101b
CJ	CMU CONTROL JOINT. REFER TO EXTERIOR/INTERIOR ELEVATIONS
RD	ROOF DRAIN LINE DROP LOCATION, REFER TO PLUMBING DRAWINGS
CG1	STAINLESS STEEL CORNER GUARD, REFER TO INTERIOR ELEVATIONS
CG2	STAINLESS STEEL CORNER GUARDS IN FOOD PREP AREAS. REFER TO SPECIFICATION SECTION 11 4000, AND FOOD SERVICE DRAWINGS
CG3	STAINLESS STEEL 180° CORNER GUARD, REFER TO INTERIOR ELEVATIONS

WALL COLOR LEGEND

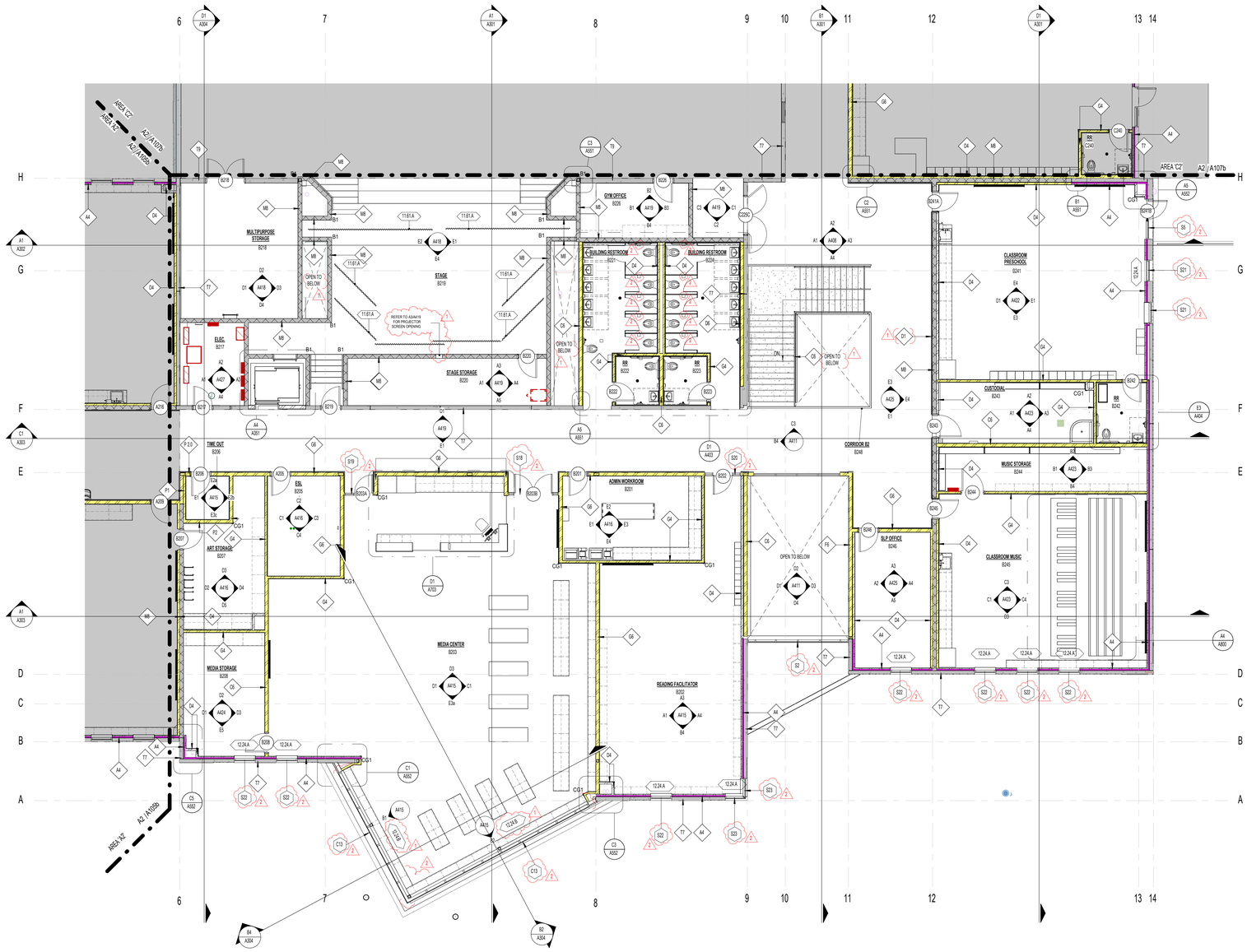
LINE SYMBOL LEGEND

REFER TO SHEET G101 FOR WALL TYPES, UL LISTINGS, AND ASSOCIATED DETAILS.

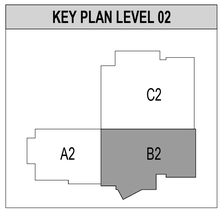
	ACCOUSTICAL SOUND BATT INSULATION STUD WALL
	3" SPRAY FOAM INSULATION IN STUD WALL
	1 HOUR FIRE WALL
	STANDARD STUD WALL
	CONCRETE WALL
	MASONRY WALL

NWL-LEGEND - KEYNOTE

KEY VALUE	NOTE
11.61.A	11 6143 - PLATFORM RIGGING AND CURTAINS; REFER TO SPECIFICATION
12.24.A	12 2413 - ROLLER WINDOW SHADES ON SOUTH CLASSROOM WINDOWS. REFER TO STOREFRONT ELEVATIONS
12.24.B	12 2413 - MOTORIZED WINDOW SHADES. REFER TO STOREFRONT ELEVATIONS



A2 / A106b AREA B2 REFERENCE FLOOR PLAN
1/8" = 1'-0"



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CACHE COUNTY SCHOOL DISTRICT

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ISSUE DATE	02/25/2025
NWL PROJECT	0119.002

STATE OF UTAH — NAYLOR WENTWORTH LUND ARCHITECTS #319164 #1839992 #7247356 — LICENSED ARCHITECT

	DATE	REVISION
1	04/01/2025	ADDENDUM 2
2	4/8/2025	ADDENDUM 3

AREA B2 REFERENCE FLOOR PLAN

A106b

FLOOR FINISH LEGEND

SHEET NOTE: FOR ROOM DESCRIPTION, REFER TO REFERENCE FLOOR PLANS

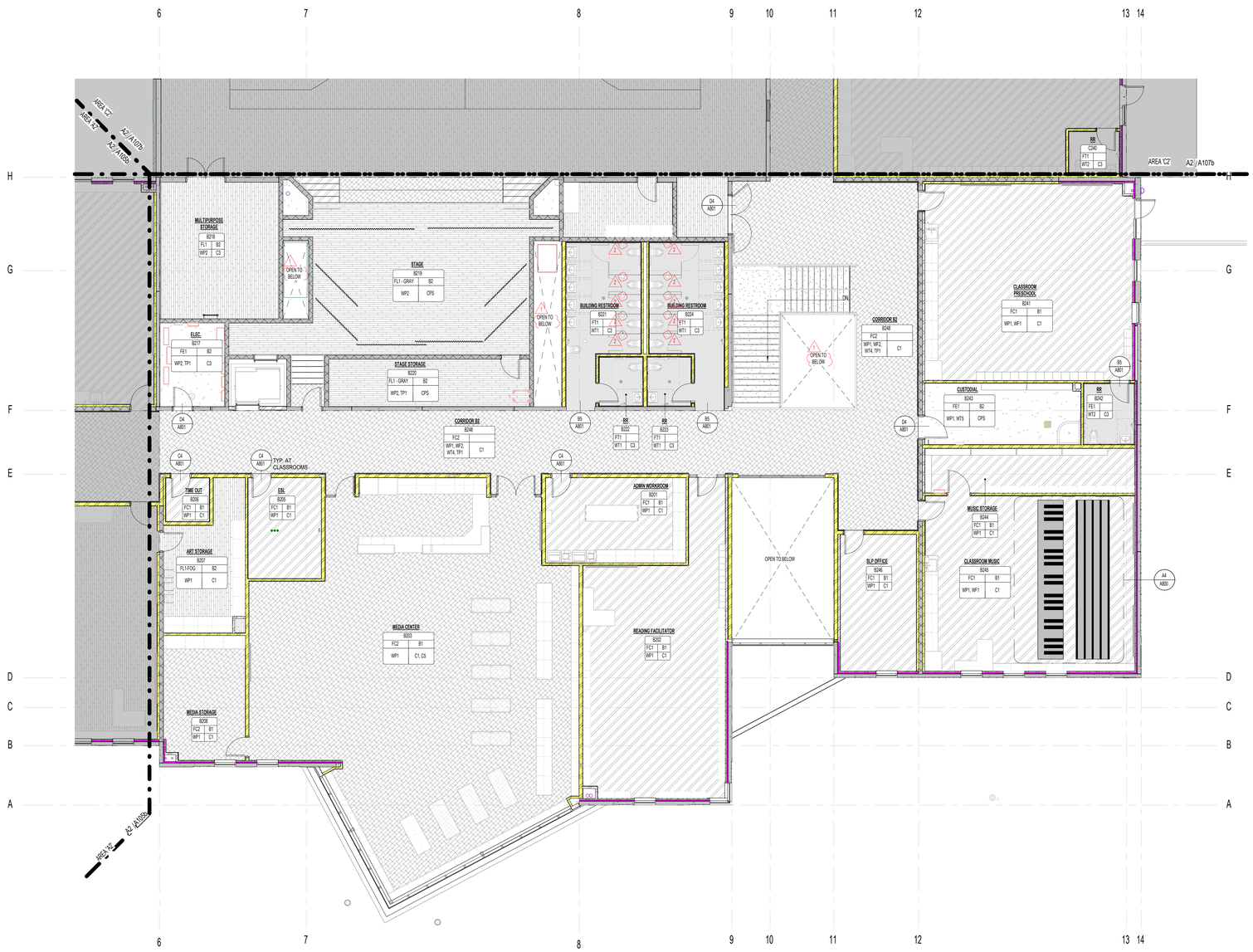
FC1 - CARPET, BROADLOOM CLASSROOMS NOTES: 2, 3	FC2 - CARPET, BROADLOOM CORRIDORS, ADMINISTRATION, MEDIA CENTER AND PUBLIC AREAS NOTES: 2, 3
FC3 - CARPET, WALK-OFF ENTRANCE NOTES: 3	FE1 - CONCRETE EXPOSED-SEALED NOTES: 3
FT1 - RESTROOM FLOOR TILE NOTES: 1,3	FT2 - QUARRY TILE NOTES: 3
FC4 - CARPET, BROADLOOM, MUSIC ROOM NOTES: 4	FC5 - CARPET, BROADLOOM, MUSIC ROOM NOTES: 4
FL1 - VINYL SHEET NOTES: 3	1 SR1 - RUBBER, STAIR ST2 TREADS AND LANDING NOTES:

NOTES:

1. THICK SET PORCELAIN MOSAIC TILE FLOOR SYSTEM. REFER TO DETAILS ON SHEET A800. FLOOR SLOPES TO DRAINS SHALL BE ACCOMMODATED IN CONCRETE FLOOR SLABS. FLOOR TILE SETTING BEDS SHALL BE CONSISTENT THICKNESS, NO EXCEPTION.
2. EXTEND FLOORING UNDER COUNTERS WITHIN KNEE SPACES WHERE APPLICABLE.
3. PROVIDE VAPOR BARRIER UNDER SLAB ON GRADE WHERE FLOOR FINISH OCCURS. SEE SPECIFICATION SECTION 03 3000
4. PATTERN TO BE INSTALLED IN MUSIC CLASSROOM

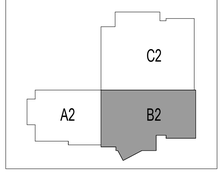
ROOM NAME
A101
FLOOR FINISH — F1 | B1 — BASE FINISH
WALL FINISH — W1 | C1 — CEILING FINISH
ROOM NUMBER

NWL-LEGEND - ROOM FINISHES SYMBOL
12" = 1'-0"



1 AREA B2 FINISH FLOOR PLAN
A106c 1/8" = 1'-0"

KEY PLAN LEVEL 02



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AREA B2 FINISH FLOOR PLAN

A106c

GENERAL NOTES - REFERENCE PLANS

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3. VAPOR BARRIER REQUIRED UNDER ALL SLAB-ON-GRADE CONDITIONS. REFER TO SPECIFICATION SECTION 03 3000.
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CORNER FINISH SYMBOLS

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WALL COLOR LEGEND

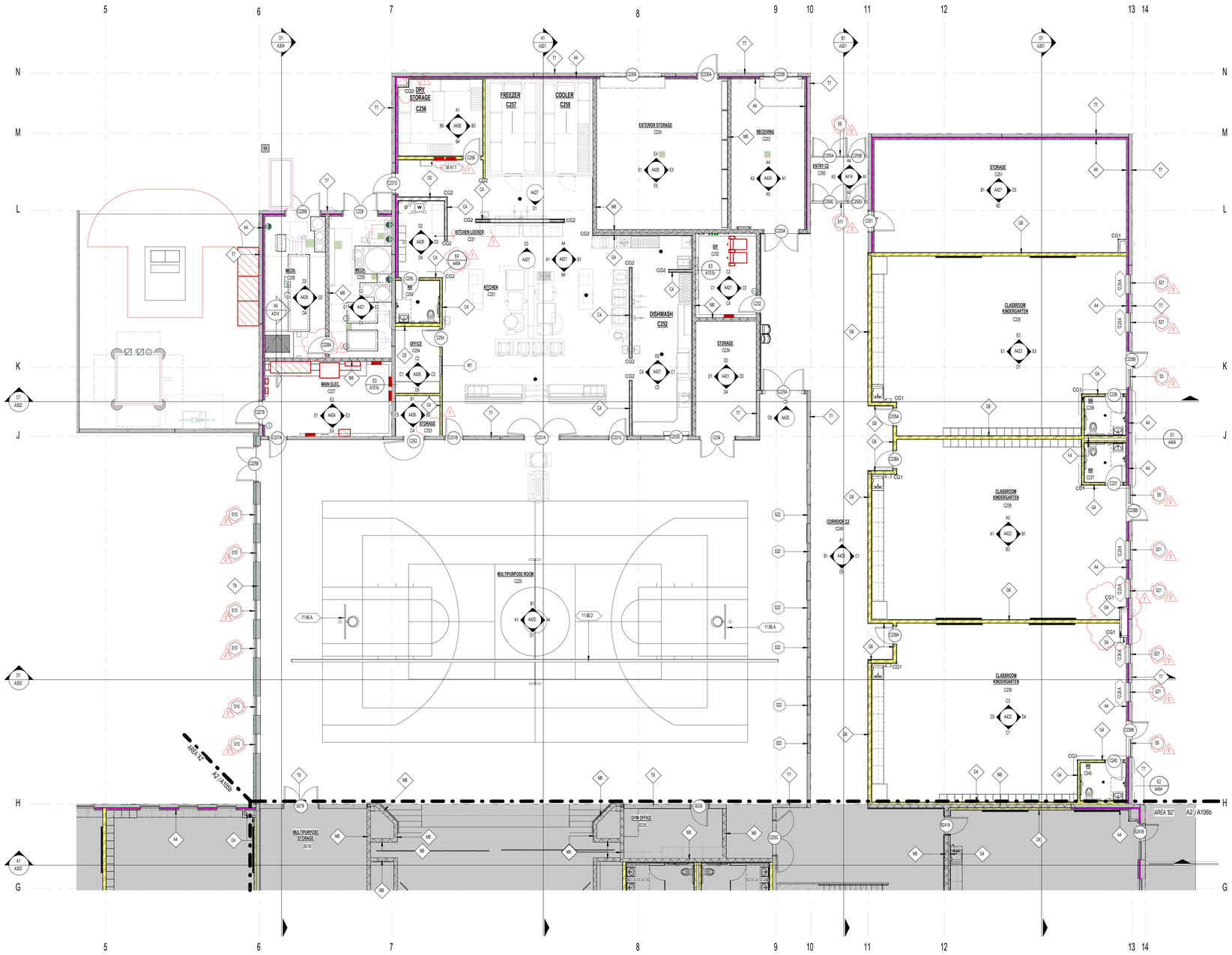
LINE SYMBOL LEGEND

REFER TO SHEET G101 FOR WALL TYPES, UL LISTINGS, AND ASSOCIATED DETAILS.

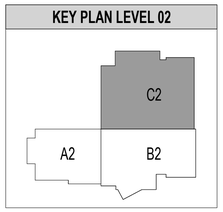
- ACCOUSTICAL SOUND BATT INSULATION STUD WALL
- 3" SPRAY FOAM INSULATION IN STUD WALL
- 1 HOUR FIRE WALL
- STANDARD STUD WALL
- CONCRETE WALL
- MASONRY WALL

NWL-LEGEND - KEYNOTE

KEY VALUE	NOTE
06.41.T	06 4100 - SIGN IN PLASTIC LAMINATE SHELF
11.66.A	11 6623 - MOTORIZED BASKETBALL BACKSTOP. REFER TO SPECIFICATION
11.66.D	11 6623 - MOTORIZED GYM DIVIDER, REFER TO SPECIFICATION
12.24.A	12 2413 - ROLLER WINDOW SHADES ON SOUTH CLASSROOM WINDOWS. REFER TO STOREFRONT ELEVATIONS



A2 / A107b AREA C2 REFERENCE FLOOR PLAN
1/8" = 1'-0"



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NWL PROJECT	01/15/202

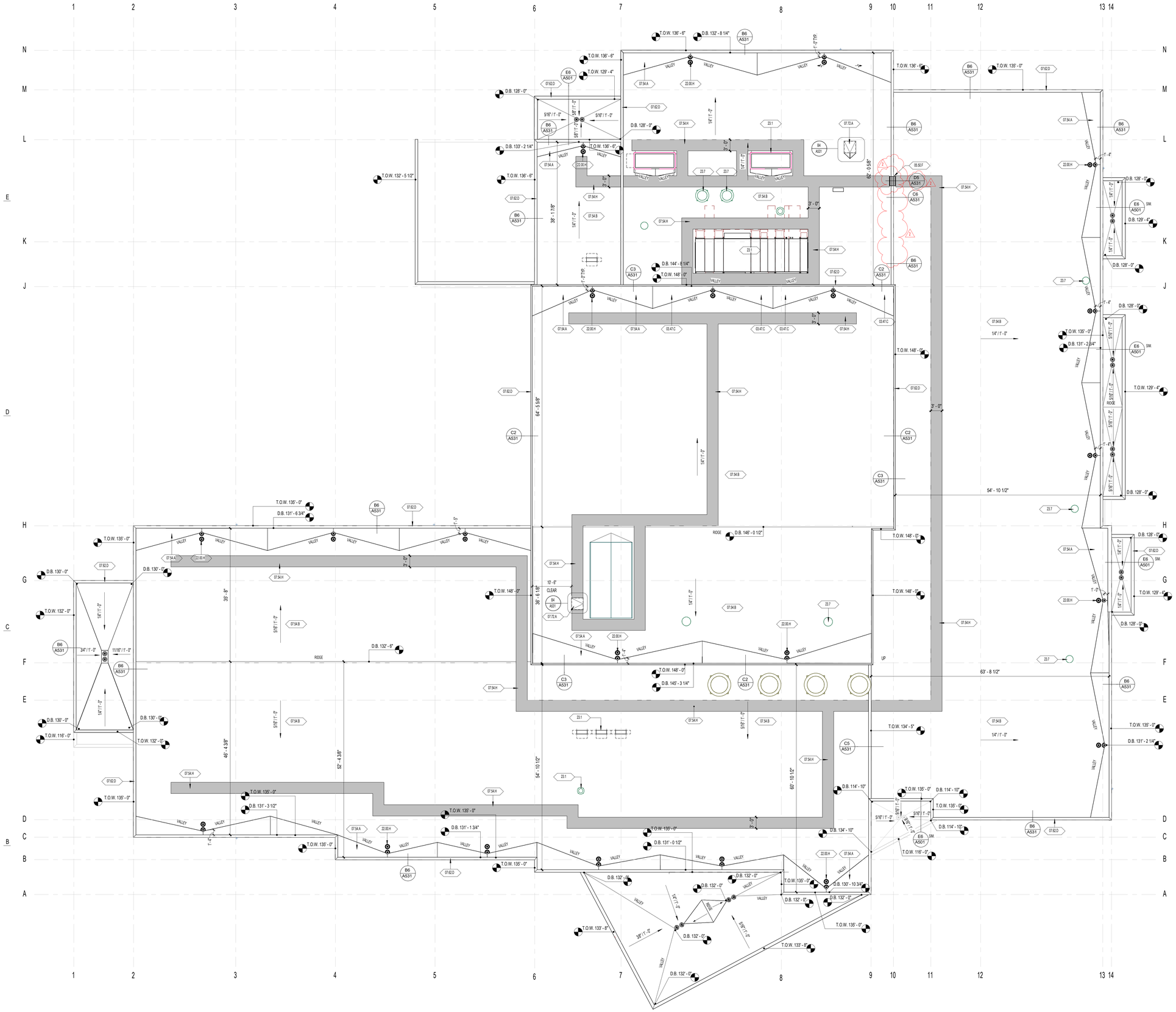
BID SET

STATE OF UTAH
NAYLOR WENTWORTH LUND ARCHITECTS
#319164
#1183992
#7247356
LICENSED ARCHITECT

	DATE	REVISION
1	04/01/2025	ADDENDUM 2
2	4/8/2025	ADDENDUM 3

AREA C2 REFERENCE FLOOR PLAN

A107b



1 ROOF PLAN
A171 1" = 10'-0"

GENERAL NOTES - ROOF PLANS

1. ALL DIMENSIONS ARE TO FACE OF FINISH CONCRETE WALLS, FACE OF METAL STUDS, FACE OF SCHEDULE FINISH WHERE "CLEAR" DIMENSIONS ARE NOTED, CENTERLINE OF COLUMNS, CENTERLINE OF DOOR OPENINGS, AND TO GRIDS, UNLESS NOTED OTHERWISE.
2. ALL ROOF SLOPES 5/16" PER FOOT MINIMUM, UNLESS NOTED OTHERWISE.
3. PROVIDE CRICKETING AROUND ROOF HATCHES & MECHANICAL EQUIPMENT, TYPICAL.
4. COORDINATE ROOF PENETRATIONS WITH MECHANICAL, PLUMBING, ELECTRICAL, AND STRUCTURAL DRAWINGS.

NWL-LEGEND - KEYNOTE

KEY VALUE	NOTE
03.47.C	03 4713 - CONCRETE TILT-UP WALL PANEL FORM LINER
05.50.F	05 5000 - GALVANIZED ROOF ACCESS LADDER
07.54.A	07 5400 - TAPERED RIGID FOAM BOARD AT ROOF CRICKETS
07.54.B	07 5400 - SINGLE-PLY PVC THERMOPLASTIC MEMBRANE ROOFING OVER ROOF BOARD, OVER 6" RIGID, TAPERED INSULATION, UNDERLAYMENT, ETC
07.54.H	07 5400 - ROOF WALK WAY PADS
07.62.D	07 6200 - PRE-FINISHED METAL CAP FLASHING WITH 1" STANDING SEAMS
07.72.A	07 7200 - SQUARED ROOF ACCESS HATCH WITH (LADDER UP) SAFETY RAILING
22.00.H	22 0000 - PRIMARY AND SECONDARY ROOF DRAINS, REFER TO PLUMBING DRAWINGS
23.1	23 0000 - MECHANICAL EQUIPMENT/DUCT, REFER TO MECHANICAL PLANS
23.7	26 0000 - EXHAUST FAN, REFER TO MECHANICAL PLANS

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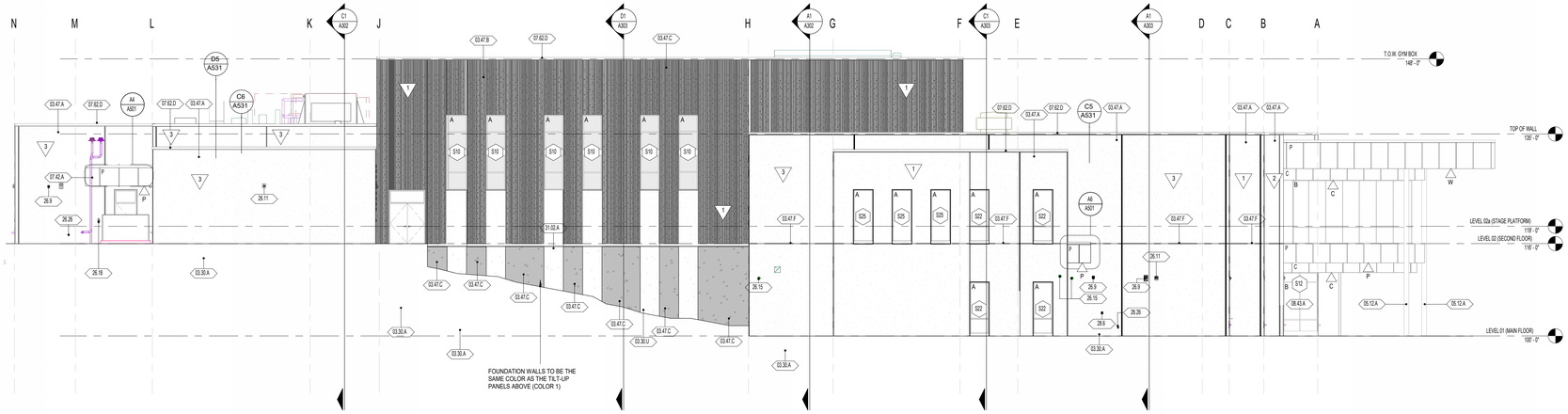
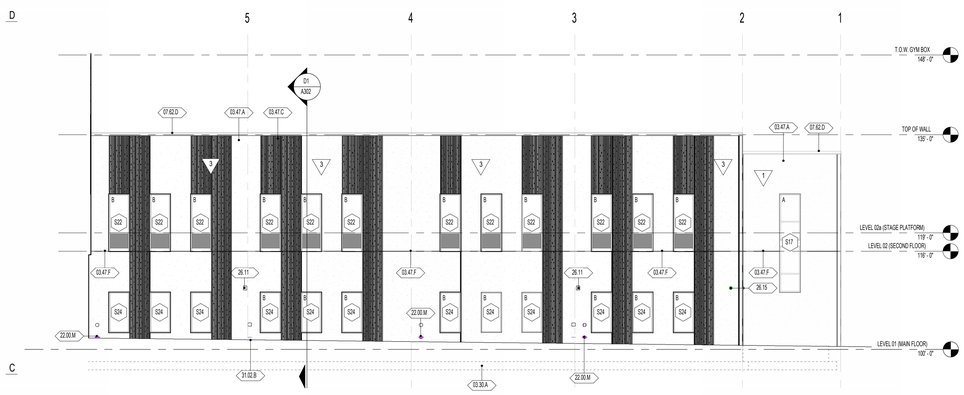
2	4/8/2025	ADDENDUM 3

ROOF PLAN

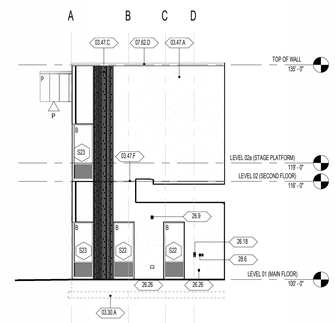
A171



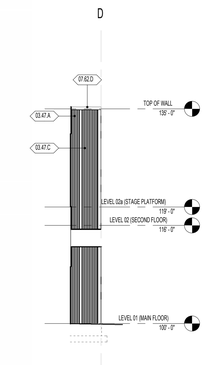
D1 A202 EXTERIOR BUILDING ELEVATION - NORTH
1" = 10'-0"



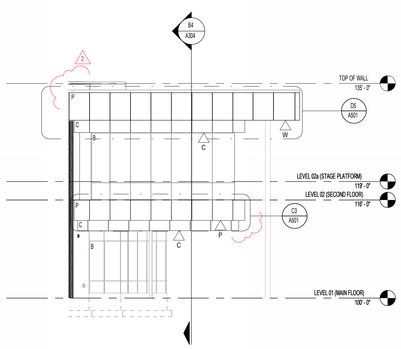
C1 A202 EXTERIOR BUILDING ELEVATION - EAST MAIN LEVEL
1" = 10'-0"



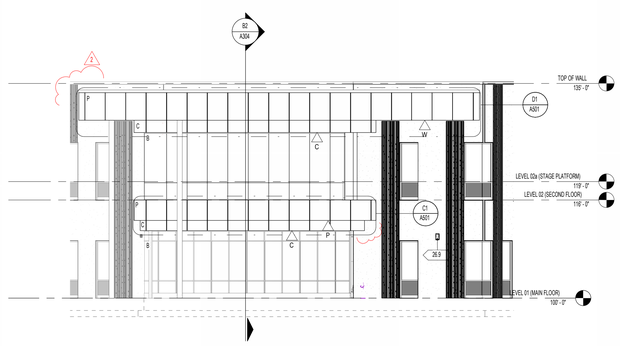
C4 A202 EXTERIOR BUILDING ELEVATION - SOUTH ENTRANCE
1" = 10'-0"



C3 A202 EXTERIOR BUILDING ELEVATION - NORTH ENTRANCE
1" = 10'-0"



A1 A202 EXTERIOR BUILDING ELEVATION - NORTH CANTILEVER
1" = 10'-0"



A2 A202 EXTERIOR BUILDING ELEVATION - SOUTH CANTILEVER
1" = 10'-0"

GENERAL NOTES - EXTERIOR ELEVATIONS

1. FOR PROJECT ANNOTATION SYMBOLS, REFER TO SHEET G004 - GENERAL INFORMATION.
2. COORDINATE GRADING WITH CIVIL.
3. REFER TO SHEET A600 FOR TILT-UP FORM LINER DETAILS

NWL-LEGEND - KEYNOTE

KEY VALUE	NOTE
03.30.A	03 3000 - REINFORCED CONCRETE FOOTING OVER STRUCTURAL FILL, FREE FROM ORGANIC MATERIAL AND DEBRIS, REFER TO STRUCTURAL DRAWINGS
03.30.U	03 3000 - REINFORCED CONCRETE FOUNDATION WALL, ARCHITECTURAL FINISH, REFER TO STRUCTURAL DRAWINGS
03.47.A	03 4713 - CONCRETE TILT-UP WALL PANEL INTEGRALLY COLORED
03.47.B	03 4713 - CONCRETE TILT-UP SANDWICH WALL PANEL, INTEGRALLY COLORED, REFER TO TILT PANEL ELEVATIONS & STRUCTURAL DRAWINGS
03.47.C	03 4713 - CONCRETE TILT-UP WALL PANEL FORM LINER
03.47.F	03 4713 - CONCRETE TILT-UP WALL PANEL REVEAL
05.12.A	05 1200 - STEEL COLUMN, REFER TO STRUCTURAL DRAWINGS
07.42.A	07 4213 - PRE-FINISHED METAL WALL AND SOFFIT PANELS WITH FURRING, INSULATION AND TRIM
07.62.D	07 6200 - PRE-FINISHED METAL CAP FLASHING WITH 1" STANDING SEAMS
08.43.A	08 4313 - ALUMINUM FRAMED STOREFRONT AND DOOR, REFER TO OPENING ELEVATIONS AND DETAILS.
22.00.M	22 0000 - ROOF DRAIN DOWNSPOUT NOZZLE, REFER TO PLUMBING DRAWINGS
26.0	26 0000 - SPEAKER, REFER TO ELECTRICAL DRAWINGS
26.11	26 0000 - EXTERIOR WALL PACK, REFER TO ELECTRICAL DRAWINGS
26.15	26 0000 - SECURITY CAMERA, REFER TO ELECTRICAL DRAWINGS
26.18	26 0000 - INTERCOM STATION, REFER TO ELECTRICAL
26.26	26 0000 - EXTERIOR POWER OUTLET, REFER TO ELECTRICAL
28.6	28 0000 - SECURITY CREDENTIALS PANEL, REFER TO ELECTRICAL PLANS & SPECIFICATIONS
31.02.A	31 0200 - ENGINEERED FILL, REFER TO CIVIL DRAWINGS AND GEOTECHNICAL REPORT
31.02.B	31 0200 - FINISH GRADE, REFER TO LANDSCAPE AND CIVIL DRAWINGS

TILT-UP INTERGRATED COLOR

1 COLOR 1 - U49 DEEP CHARCOAL; REFER TO SPECIFICATIONS
2 COLOR 2 - U28 CHARCOAL; REFER TO SPECIFICATIONS
3 COLOR 3 - U18 GULL GRAY; REFER TO SPECIFICATIONS

NOTE:

1. TILT-UP CONCRETE SANDWICH PANEL; CONCRETE VENEER COLOR 1 (U49) AND STRUCTURAL CONCRETE PANEL COLOR 2 (U28)

METAL PANEL COLOR

P JY - 2570, COPPER PENNY MICA; REFER TO SPECIFICATIONS 07 4264
C JY - 2550, CHAMPAGNE MICA; REFER TO SPECIFICATIONS 07 4264
W ALBEPL, WOOD GRAINED; REFER TO SPECIFICATIONS 07 4616

= FACE PANEL INDICATOR
= SOFFIT PANEL INDICATOR

NOTE:

1. REVIEW CANOPIES ON ELEVATIONS FOR COLOR ASSIGNMENT.
2. COLOR 2 (JY - 2750), TO BE USED FOR UPPER SOFFIT ON MEDIA CENTER CANOPY.
3. SOFFITS ON ALL CANOPIES TO MATCH ADJACENT ACM FACE PANEL, UNLESS INDICATED OTHERWISE.

STOREFRONT MULLION COLOR

A CLASS 1 NATURAL ANODIZED ALUMINUM; REFER TO SPECIFICATIONS 08 4313
B BLACK ANODIZED ALUMINUM; REFER TO SPECIFICATIONS 08 4313

NOTE:

1. REVIEW STOREFRONTS ON ELEVATIONS FOR COLOR ASSIGNMENT.
2. EXTERIOR LOCATIONS WITH HARDWARE TO USE COLOR A.

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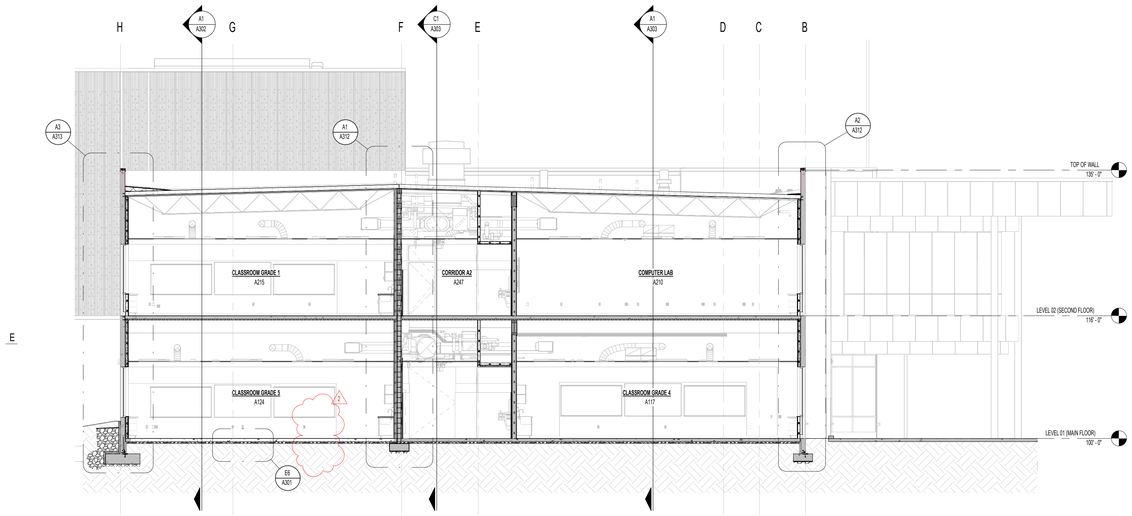
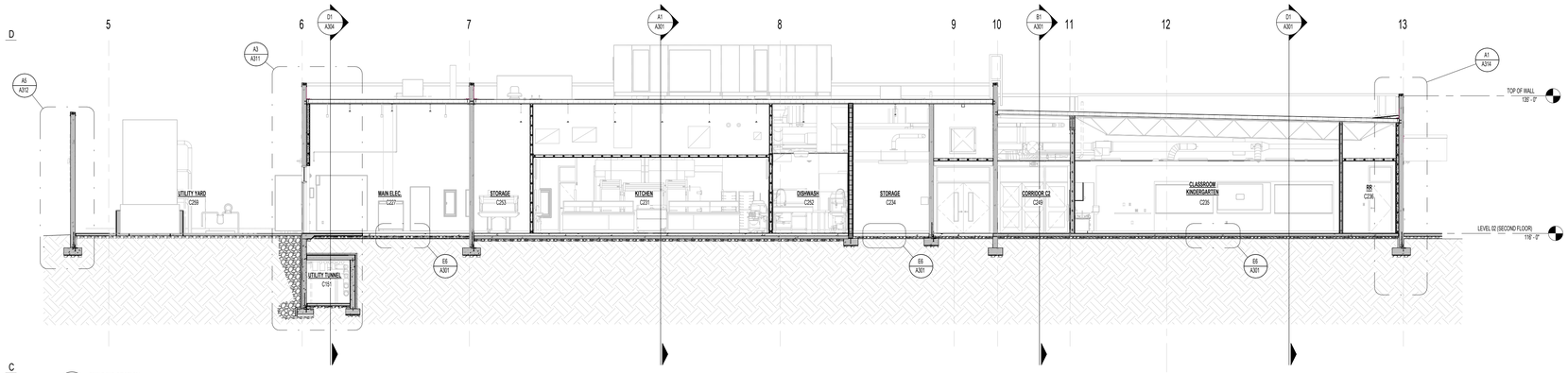
BUILDING ELEVATIONS

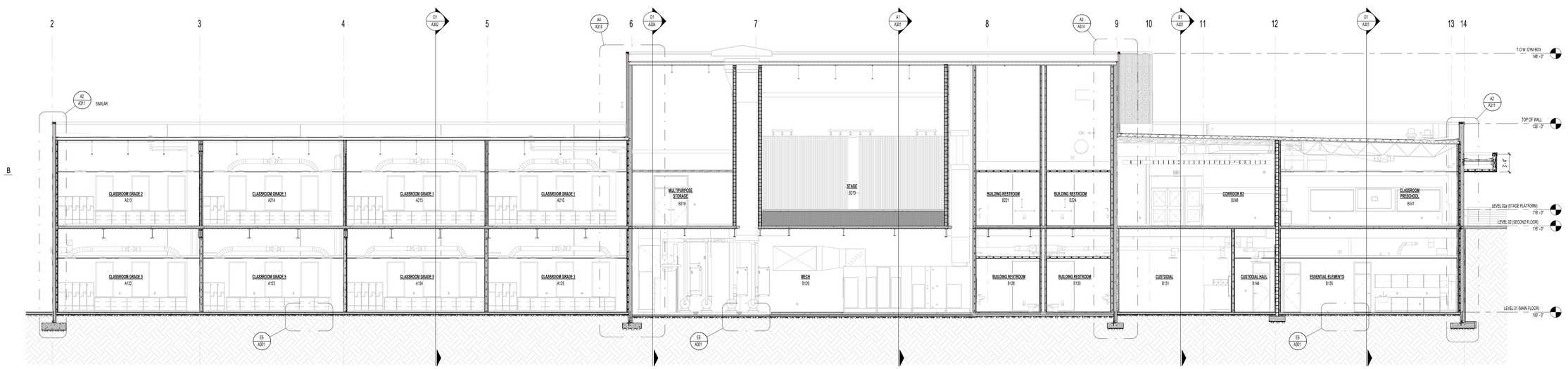
A202



D1 A302 BUILDING SECTION 1/8" = 1'-0"



C1 A302 BUILDING SECTION 1/8" = 1'-0"



A1 A302 BUILDING SECTION 1/8" = 1'-0"

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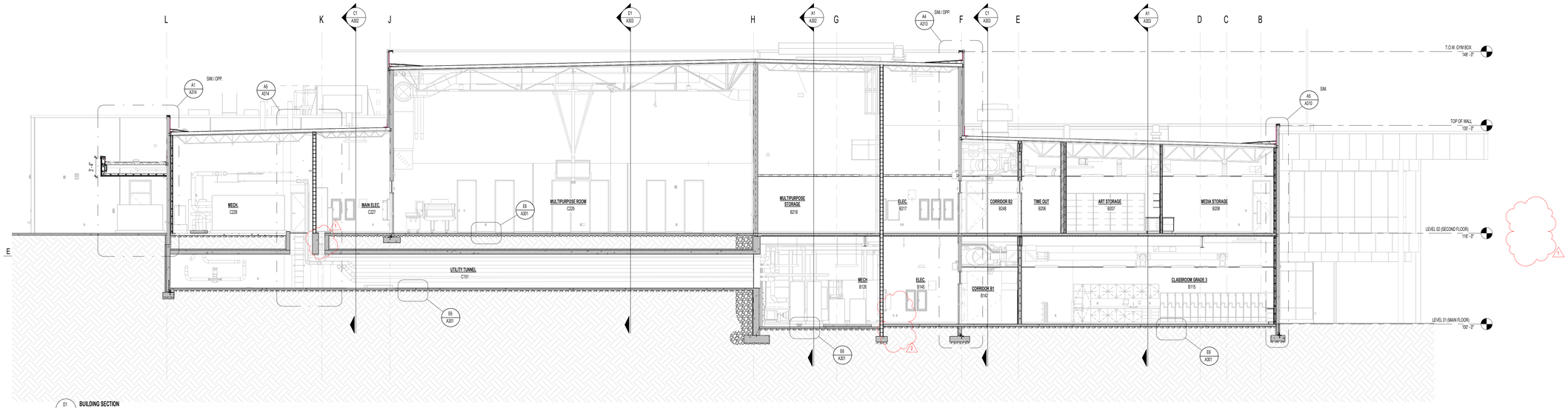
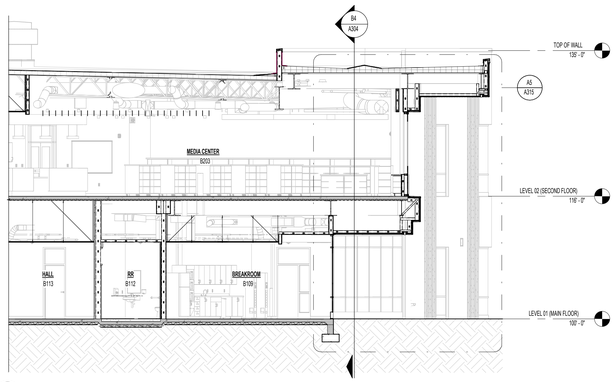
BUILDING SECTIONS

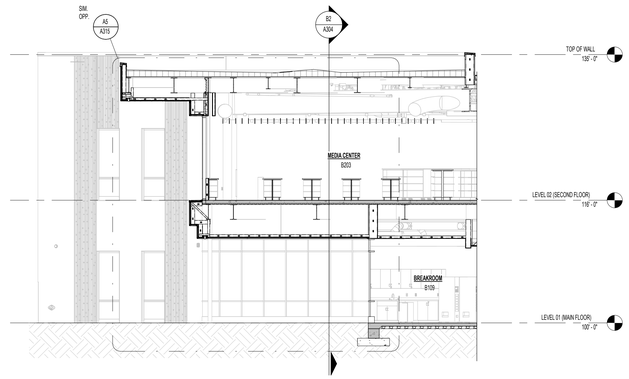
A302



D1 A304 **BUILDING SECTION**
1/8" = 1'-0"



B3 A304 **BUILDING SECTION**
1/8" = 1'-0"



B4 A304 **BUILDING SECTION**
1/8" = 1'-0"

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CACHE COUNTY
SCHOOL DISTRICT

HYDE PARK ELEMENTARY SCHOOL

332 EAST 300 NORTH
HYDE PARK CITY, UT
84318

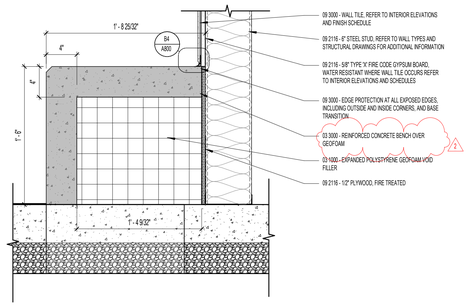
DRAWING ISSUE	BID SET
ISSUE DATE	03/25/2025
NWL PROJECT	0119.002

STATE OF UTAH
NAYLOR WENTWORTH LUND ARCHITECTS
#319164
#183992
#7247356
LICENSED ARCHITECT

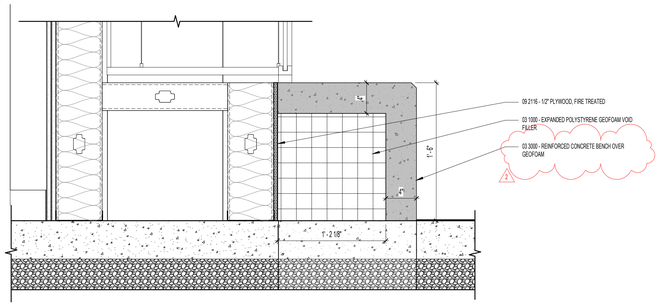
	DATE	REVISION
1	04/01/2025	ADDENDUM 2
2	4/8/2025	ADDENDUM 3

BUILDING SECTIONS

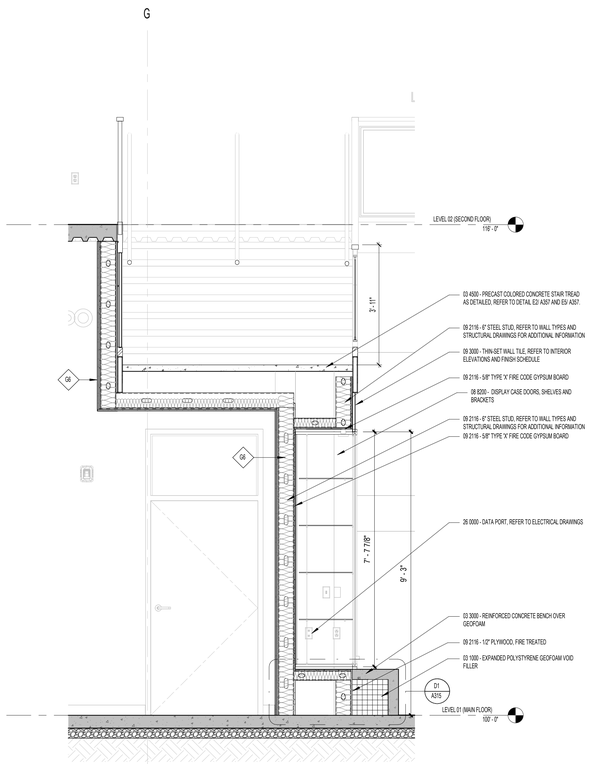
A304



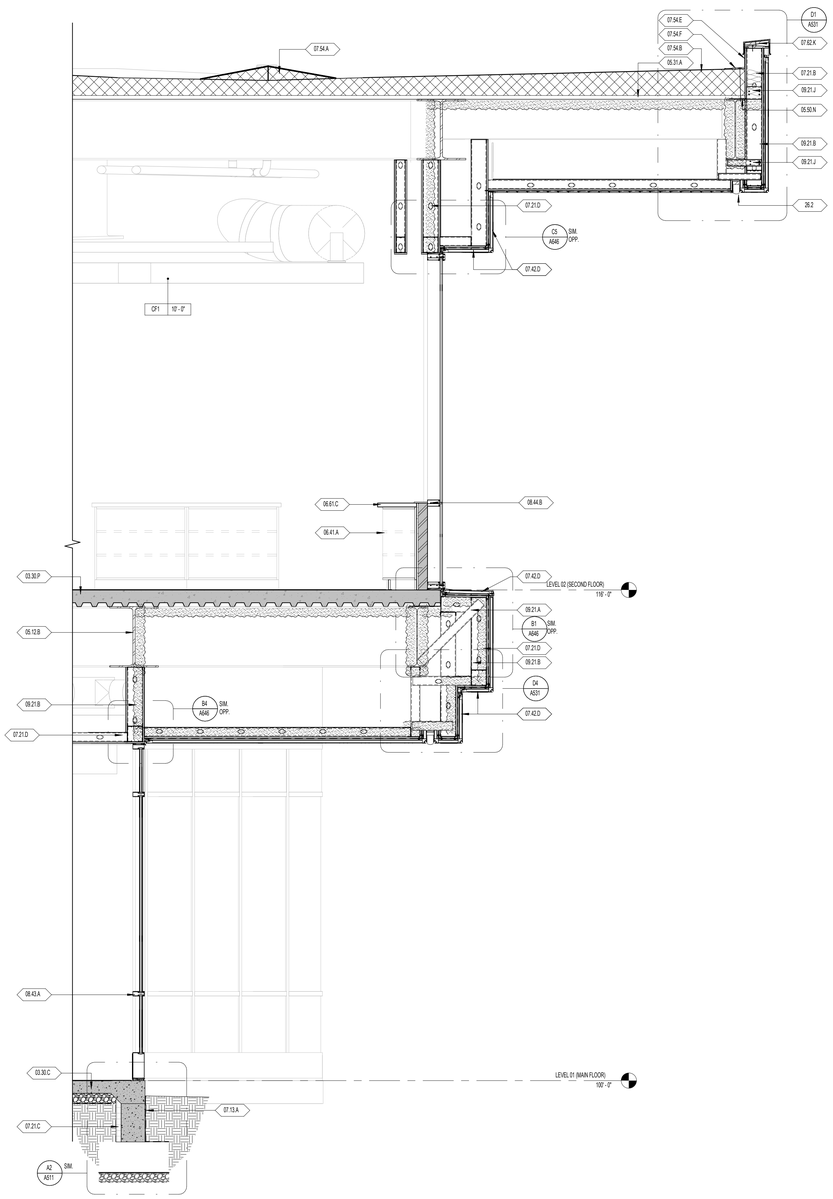
E — E1 / A3/5 **CONCRETE BENCH**
1 1/2" = 1'-0"



D — D1 / A3/5 **CONCRETE BENCH AT DISPLAY CASE**
1 1/2" = 1'-0"



C1 / A3/5 **Section 11 - Callout 1**
1/2" = 1'-0"



A5 / A3/5 **WALL SECTION 26**
1/2" = 1'-0"

GENERAL NOTES - WALL SECTIONS

1. REFER TO OVERALL DIMENSION PLANS FOR ALL EXTERIOR DIMENSIONS & EXTERIOR ROUGH OPENINGS. ALL DIMENSIONS ARE TO FACE OF FINISH CONCRETE WALLS, FACE OF METAL STUDS, FACE OF SCHEDULE FINISH WHERE "CLEAR" DIMENSIONS ARE NOTED, CENTERLINE OF COLUMNS, CENTERLINE OF DOOR OPENINGS, AND TO GRIDS, UNLESS NOTED OTHERWISE.
2. REFER TO REFLECTED CEILING PLANS FOR CEILING TYPES LEGEND.
3. FOR PROJECT ANNOTATION SYMBOLS, REFER TO SHEET G004 - GENERAL INFORMATION.

NWL-LEGEND - KEYNOTE

KEY VALUE	NOTE
03.10.A	03 1000 - EXPANDED POLYSTYRENE GEOFOAM VOID FILLER
03.30.C	03 3000 - CONCRETE FLOOR SLAB OVER STRUCTURAL FILL, FREE FROM ORGANIC MATERIAL AND DEBRIS. REFER TO STRUCTURAL DRAWINGS
03.30.P	03 3000 - CONCRETE SLAB OVER METAL DECK OVER STEEL BEAMS, REFER TO STRUCTURAL DRAWINGS
03.36.S	03 3000 - REINFORCED CONCRETE BENCH OVER GEOFOAM
03.45.B	03 4500 - PRECAST COLORED CONCRETE STAIR TREAD AS DETAILED, REFER TO DETAIL E2/ A3/7 AND E5/ A3/7.
05.12.B	05 1200 - STEEL BEAM, REFER TO STRUCTURAL DRAWINGS
05.31.A	05 3100 - STEEL DECK, REFER TO STRUCTURAL DRAWINGS
05.50.N	05 5000 - STEEL ANGLE, REFER TO STRUCTURAL DRAWINGS
06.41.A	06 4100 - ARCHITECTURAL CASEWORK, REFER TO INTERIOR ELEVATIONS AND CASEWORK DETAILS
06.61.C	06 6116 - SOLID SURFACE COUNTERTOP, NO BACKSPLASH
07.13.A	07 1300 - MODIFIED BITUMINOUS SHEET MEMBRANE ON FACE OF CONCRETE WITH DRAINAGE PANEL AND PROTECTION BOARD.
07.21.B	07 2100 - SEMI-RIGID PRE-FORMED MINERAL WOOL INSULATION
07.21.C	07 2100 - 2" RIGID INSULATION
07.21.D	07 2119 - 3" SPRAY FOAM INSULATION
07.42.D	07 4264 - PRE-FINISHED METAL COMPOSITE SOFFIT AND OR WALL PANEL
07.54.A	07 5400 - TAPERED RIGID FOAM BOARD AT ROOF CRICKETS
07.54.B	07 5400 - SINGLE-PLY PVC THERMOPLASTIC MEMBRANE ROOFING OVER ROOF BOARD, OVER 6" RIGID, TAPERED INSULATION, UNDERLAYMENT, ETC
07.54.E	07 5400 - SINGLE-PLY PVC THERMOPLASTIC MEMBRANE FLASHING (WRAP OVER TOP AND SECURE)
07.54.F	07 5400 - HOT AIR WELDED
07.62.K	07 6200 - ANGLED PRE-FINISHED METAL COPING OVER ANCHORED WOOD NAILER ASSEMBLY
08 8200.A	08 8200 - DISPLAY CASE DOORS, SHELVES AND BRACKETS
08.43.A	08 4313 - ALUMINUM FRAMED STOREFRONT AND DOOR, REFER TO OPENING ELEVATIONS AND DETAILS.
08.44.B	08 4413 - ALUMINUM FRAMED CURTAIN WALL SYSTEM, REFER TO OPENING ELEVATIONS AND DETAILS
09.21.A	09 2116 - 3-5/8" STEEL STUD, REFER TO WALL TYPES AND STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION
09.21.AH	09 2116 - 1/2" PLYWOOD, FIRE TREATED
09.21.B	09 2116 - 6" STEEL STUD, REFER TO WALL TYPES AND STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION
09.21.G	09 2116 - 5/8" TYPE 'X' FIRE CODE GYPSUM BOARD, WATER RESISTANT WHERE WALL TILE OCCURS REFER TO INTERIOR ELEVATIONS AND SCHEDULES
09.21.J	09 2116 - 5/8"F CLIP, REFER TO STRUCTURAL DETAILS
09.21.Y	09 2116 - 5/8" TYPE 'X' FIRE CODE GYPSUM BOARD
09.30.B	09 3000 - THIN-SET WALL TILE, REFER TO INTERIOR ELEVATIONS AND FINISH SCHEDULE
09.30.F	09 3000 - WALL TILE, REFER TO INTERIOR ELEVATIONS AND FINISH SCHEDULE
09.30.G	09 3000 - EDGE PROTECTION AT ALL EXPOSED EDGES, INCLUDING OUTSIDE AND INSIDE CORNERS, AND BASE TRANSITION
26.2	26 0000 - LIGHTING FIXTURE, REFER TO ELECTRICAL DRAWINGS
26.22	26 0000 - DATA PORT, REFER TO ELECTRICAL DRAWINGS

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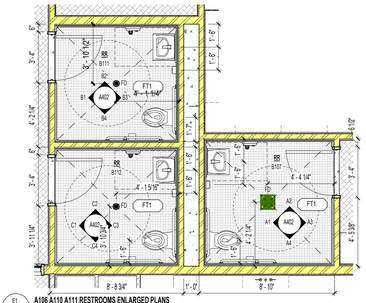
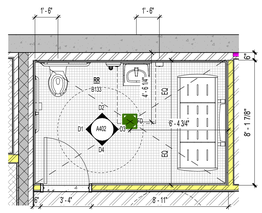
2	4/8/2025	ADDENDUM 3

WALL SECTIONS

A315



E1 A402 A106 A110 A111 RESTROOMS ENLARGED PLANS
1/4" = 1'-0"



E2 A402 A137 RESTROOM ENLARGED PLAN
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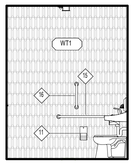

D1 A402 A133 - RESTROOM - NORTH
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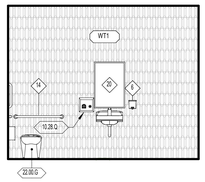

D2 A402 A133 - RESTROOM - EAST
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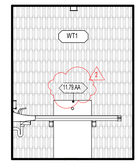

D3 A402 A133 - RESTROOM - SOUTH
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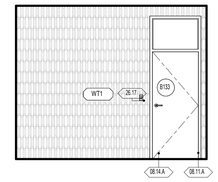
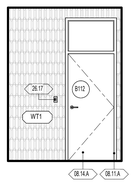
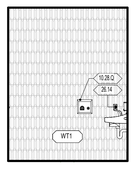


D4 A402 A133 - RESTROOM - WEST
1/4" = 1'-0"



C1 A402 B112 - RESTROOM - NORTH
1/4" = 1'-0"



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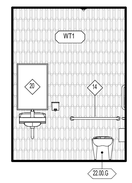

C3 A402 B112 - RESTROOM - SOUTH
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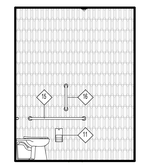
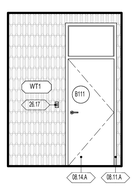
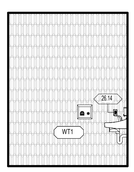


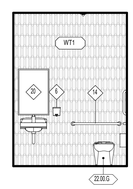
C4 A402 B112 - RESTROOM - WEST
1/4" = 1'-0"



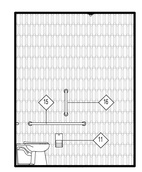
B1 A402 B111 - RESTROOM - NORTH
1/4" = 1'-0"



B2 A402 B111 - RESTROOM - EAST
1/4" = 1'-0"

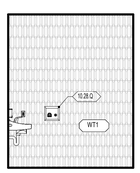


B3 A402 B111 - RESTROOM - SOUTH
1/4" = 1'-0"



B4 A402 B111 - RESTROOM - WEST
1/4" = 1'-0"

A1 A402 B107 - RESTROOM - NORTH
1/4" = 1'-0"



A2 A402 B107 - RESTROOM - EAST
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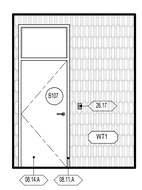

A3 A402 B107 - RESTROOM - SOUTH
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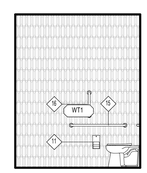


A4 A402 B107 - RESTROOM - WEST
1/4" = 1'-0"

GENERAL NOTES - ENLARGED REFERENCE PLANS

1. REFER TO SHEET A401 FOR TOILET ROOM ACCESSORY SCHEDULE AND MOUNTING HEIGHTS.
2. FINAL LOCATION OF ALL TOILET ROOM ACCESSORIES TO BE COORDINATED WITH ARCHITECT/OWNER PRIOR TO INSTALLATION.
3. ALIGN ALL BASE TRANSITIONS WITH FLOORING TRANSITIONS, AS SHOWN ON THE FINISH FLOOR PLANS
4. PAINT ALL EXPOSED DUCTWORK, PIPING, CONDUITS, SUPPORTS, STEEL STRUCTURE, DECK, ETC. SHOWN IN ELEVATIONS.
5. SEE ELECTRICAL SHEETS FOR LOCATIONS OF OUTLETS, SWITCHES, DATA, TELEPHONE, TELEVISION, INTERCOMS, CLOCKS, SPEAKERS, HORNS, STROBES, ETC.
6. PROVIDE A TRANSITION STRIP BETWEEN DIFFERING FLOOR COVERINGS, REFER TO SHEET A800 FOR TYPICAL TRANSITION DETAILS.
7. PROVIDE FILLERS AT ALL END LOCATIONS WHERE LOCKERS OR MILLWORK DO NOT FILL THE WHOLE EXTEND OF THE SPACE SHOWN.
8. ALL ARCHITECTURAL CASEWORK NUMBERS NOTED ARE PER WI STANDARDS.

WALL TYPE
WALL TYPE MARK, REFER TO WALL TYPES ON SHEETS A500.
FIRE RATING INDICATOR
ACOUSTICAL INDICATOR

DIVISION
KEYNOTE MARKER
SECTION SEQUENCE
SECTION

DOOR TYPE
DOOR TYPE MARK, REFER TO DOOR SCHEDULE.
SHEET LOCATION

WINDOW TYPE
WINDOW TYPE MARK, REFER TO WINDOW SCHEDULE.
SHEET LOCATION

WALL FINISH

WP1	09 9123 PURE WHITE FINISH ON GYPSUM BOARD
WP2	09 9123 PURE WHITE EPOXY FINISH ON GYPSUM - CUSTODIAL, KITCHEN OFFICE, STORAGE
WP3	09 9123 PURE WHITE EPOXY FINISH ON CMU AND CONC. - CUSTODIAL, STORAGE, IDF, MECH, MDF
WP4	09 9123 BLACK SEMI-GLOSS FINISH ON CMU AND CONC. - STAGE
WP5	09 9123 EPOXY SEMI-GLOSS FINISH ON STEEL
WT1	09 3000 GLAZED CERAMIC TILE - REFER TO DETAIL XXA101 FOR TILE PATTERN
WT2	09 3000 GLAZED CERAMIC TILE - REFER TO DETAIL XXA101 FOR TILE PATTERN
WT3	09 3000 GLAZED CERAMIC TILE - REFER TO DETAIL XXA101 FOR TILE PATTERN
WT4	09 3000 GLAZED CERAMIC TILE - REFER TO DETAIL XXA101 FOR TILE PATTERN
WT5	09 3000 GLAZED CERAMIC TILE - REFER TO DETAIL XXA101 FOR TILE PATTERN
WT6	09 3000 GLAZED CERAMIC TILE - REFER TO DETAIL XXA101 FOR TILE PATTERN
WF1	09 8413 FELT PANEL FINISH
WF2	09 8413 FELT PANEL FINISH
TP1	03 4713 SEALED TILT PANEL

1. INTERIOR SURFACES ONLY. FOR EXTERIOR USE WATER REPELLANT BY SECTION 07 1900
2. REFER TO SECTION 09 9123 TO CLEAN AND PRIME WALLS AS NECESSARY WHERE PLASTIC LAMINATES PLANELS OR VINYL WALL COVERING IS SCHEDULED TO OCCUR
3. SCHLUTER EDGE PROTECTION AT ALL EXPOSED EDGES, CORNERS, FLOOR, & TILE TRANSITIONS, AS PER SECTION 09 3000
4. COORDINATE PANEL JOINTS WITH ARCHITECT PRIOR TO INSTALLATION

BASE FINISH

B1	09 6813 4" CARPET BASE, CLASSROOMS, ADMIN, MEDIA CENTER
B2	09 6519 4" COVE RUBBER BASE, MULTI-PURPOSE, STAGE
B3	09 3000 6" GLAZED CERAMIC TILE, KITCHEN

1. INSTALL SEALANT BETWEEN BASE AND FLOOR TILE AS TCNA APPLICATIONS REQUIRE, SECTION 09 3000
2. METAL TRIM AT TOP OF BASE WHERE NO TILE BASE OCCURS BY SPEC SECTION 09 3000

NWL-LEGEND - KEYNOTE

KEY VALUE	NOTE
08.11.A	08 1113 - HOLLOW METAL DOOR OR WINDOW FRAME. REFER TO SCHEDULES AND DETAILS
08.14.A	08 1416 - FLUSH WOOD DOORS. REFER TO SCHEDULES AND DETAILS
10.28.Q	10 2800 - AIR HAND DRYER
11.79.AA	11 7910 - ADULT CHANGING TABLE
22.00.G	22 0000 - PLUMBING EQUIPMENT/FIXTURES. REFER TO PLUMBING DRAWINGS
26.14	26 0000 - OUTLET. REFER TO ELECTRICAL DRAWINGS
26.17	26 0000 - LIGHT CALL BOX. REFER TO ELECTRICAL DRAWINGS

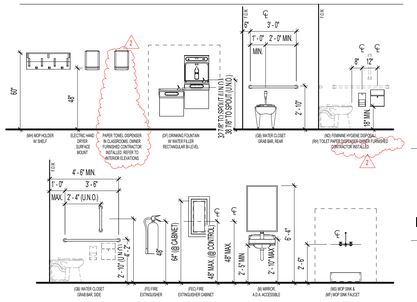
TOILET ROOM ACCESSORY LEGEND

X — REFERE TO G004 MOUNTING HEIGHT

MARK	ITEM	NOTES
12	MOP SINK & MOP SINK FAUCET	REFER TO PLUMBING DRAWINGS
3	MOP HOLDER W/ SHELF	REFER TO SECTION 10 2800
4	FEMININE HYGIENE DISPENSER	OWNER FURNISHED, OWNER INSTALL
5	PAPER TOWEL DISPENSER	OWNER FURNISHED, OWNER INSTALL
6	SOAP DISPENSER	OWNER FURNISHED, OWNER INSTALL
7	DRINKING FOUNTAIN W/ WATER FILLER	REFER TO PLUMBING DRAWINGS
8	TOILET, ACCESSIBLE	REFER TO PLUMBING DRAWINGS
9	TOILET, TYPICAL	REFER TO PLUMBING DRAWINGS
10	FEMININE HYGINE DISPOSAL	REFER TO SECTION 10 2800
11	TOILET PAPER DISPENSER	OWNER FURNISHED, OWNER INSTALL
12	URINAL, ACCESSIBLE	REFER TO PLUMBING DRAWINGS
13	URINAL, TYPICAL	REFER TO PLUMBING DRAWINGS
14	WC GRAB BAR, REAR (HORIZONTAL)	REFER TO SECTION 10 2800
15	WC GRAB BAR, SIDE (HORIZONTAL)	REFER TO SECTION 10 2800
16	WC GRAB BAR, SIDE (VERTICAL)	REFER TO SECTION 10 2800
17	SHOWER FAUCET, SHOWER GRAB BAR A.D.A., FRONT	REFER TO SECTION 10 2800
18	SHOWER GRAB BAR A.D.A., SIDE	REFER TO SECTION 10 2800
19	SHOWER SEAT A.D.A., REAR	REFER TO SECTION 10 2800
20	MIRROR, A.D.A. ACCESSIBLE	REFER TO SECTION 10 2800
21	SINK, A.D.A. ACCESSIBLE	REFER TO PLUMBING DRAWINGS

NOTE: INSTALL SOLID WOOD BLOCKING AS REQUIRED FOR ACCESSORIES AND TOILET PARTITION MOUNTING

TOILET ROOM ACCESSORY LEGEND



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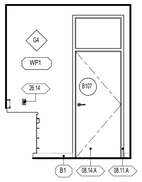
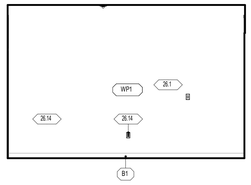
ENLARGED PLANS & INTERIOR ELEVATIONS

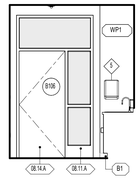
A402



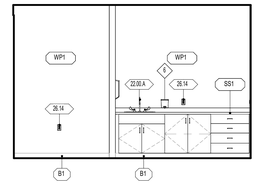
E1 A405 **B106 - NURSE - NORTH**
1/4" = 1'-0"



E2 A405 **B106 - NURSE - EAST**
1/4" = 1'-0"

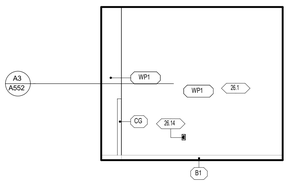


E3 A405 **A106 - NURSE - SOUTH**
1/4" = 1'-0"

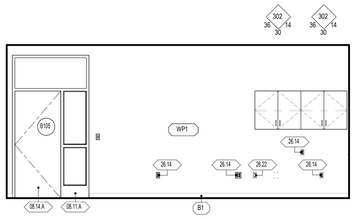


E4 A405 **B106 - NURSE - WEST**
1/4" = 1'-0"

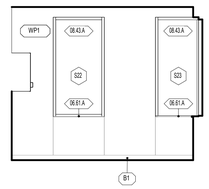
E



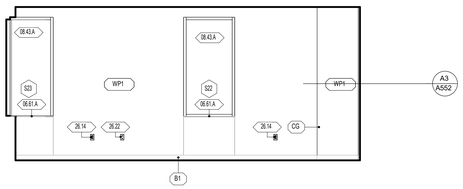
D1 A405 **B105 - PRINCIPAL - NORTH**
1/4" = 1'-0"



D2 A405 **B105 - PRINCIPAL - EAST**
1/4" = 1'-0"

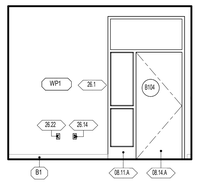


D3 A405 **B105 - PRINCIPAL - SOUTH**
1/4" = 1'-0"

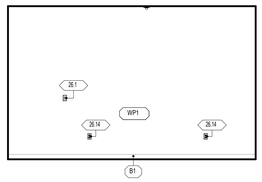


D4 A405 **B105 - PRINCIPAL - WEST**
1/4" = 1'-0"

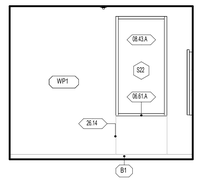
D



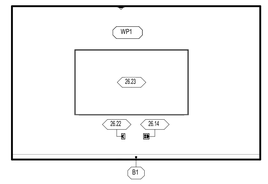
C1 A405 **B104 - CONFERENCE - NORTH**
1/4" = 1'-0"



C2 A405 **B104 - CONFERENCE - EAST**
1/4" = 1'-0"

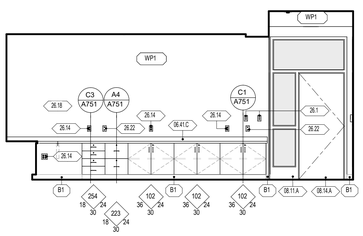


C3 A405 **B104 - CONFERENCE - SOUTH**
1/4" = 1'-0"

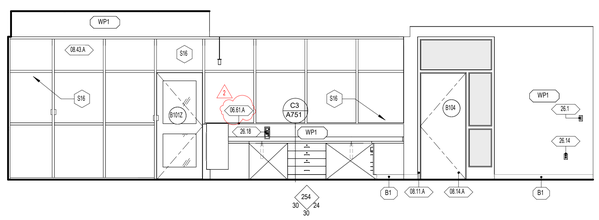


C4 A405 **B104 - CONFERENCE - WEST**
1/4" = 1'-0"

C

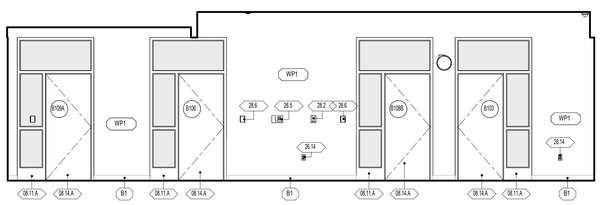


B1 A405 **B101 - ADMIN. - WEST**
1/4" = 1'-0"

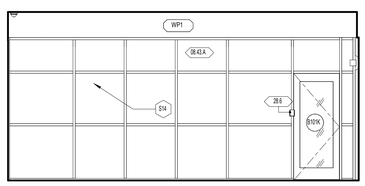


B2 A405 **B101 - WAITING - SOUTH**
1/4" = 1'-0"

B



A1 A405 **B101 - WAITING - NORTH**
1/4" = 1'-0"



A3 A405 **B101 - WAITING - EAST**
1/4" = 1'-0"

A

1 2 3 4 5 6

GENERAL NOTES - ENLARGED REFERENCE PLANS

1. REFER TO SHEET A401 FOR TOILET ROOM ACCESSORY SCHEDULE AND MOUNTING HEIGHTS.
2. FINAL LOCATION OF ALL TOILET ROOM ACCESSORIES TO BE COORDINATED WITH ARCHITECT/OWNER PRIOR TO INSTALLATION.
3. ALIGN ALL BASE TRANSITIONS WITH FLOORING TRANSITIONS, AS SHOWN ON THE FINISH FLOOR PLANS
4. PAINT ALL EXPOSED DUCTWORK, PIPING, CONDUITS, SUPPORTS, STEEL STRUCTURE, DECK, ETC. SHOWN IN ELEVATIONS.
5. SEE ELECTRICAL SHEETS FOR LOCATIONS OF OUTLETS, SWITCHES, DATA, TELEPHONE, TELEVISION, INTERCOMS, CLOCKS, SPEAKERS, HORNS, STROBES, ETC.
6. PROVIDE A TRANSITION STRIP BETWEEN DIFFERING FLOOR COVERINGS, REFER TO SHEET A800 FOR TYPICAL TRANSITION DETAILS.
7. PROVIDE FILLERS AT ALL END LOCATIONS WHERE LOCKERS OR MILLWORK DO NOT FILL THE WHOLE EXTEND OF THE SPACE SHOWN.
8. ALL ARCHITECTURAL CASEWORK NUMBERS NOTED ARE PER WI STANDARDS.

WALL TYPE
WALL TYPE MARK, REFER TO WALL TYPES ON SHEETS A500.
FIRE RATING INDICATOR
ACOUSTICAL INDICATOR

DIVISION
KEYNOTE MARKER
SECTION SEQUENCE
SECTION

DOOR TYPE
DOOR TYPE MARK, REFER TO DOOR SCHEDULE.
SHEET LOCATION

WINDOW TYPE
WINDOW TYPE MARK, REFER TO WINDOW SCHEDULE.
SHEET LOCATION

WALL FINISH

WP1 09 9123 PURE WHITE FINISH ON GYPSUM BOARD
WP2 09 9123 PURE WHITE EPOXY FINISH ON GYPSUM - CUSTODIAL, KITCHEN OFFICE, STORAGE
WP3 09 9123 PURE WHITE EPOXY FINISH ON CMU AND CONC. - CUSTODIAL, STORAGE, IDF, MECH, MDF
WP4 09 9123 BLACK SEMI-GLOSS FINISH ON CMU AND CONC. - STAGE
WP5 09 9123 EPOXY SEMI-GLOSS FINISH ON STEEL
WT1 09 3000 GLAZED CERAMIC TILE - REFER TO DETAIL XXA101 FOR TILE PATTERN
WT2 09 3000 GLAZED CERAMIC TILE - REFER TO DETAIL XXA101 FOR TILE PATTERN
WT3 09 3000 GLAZED CERAMIC TILE - REFER TO DETAIL XXA101 FOR TILE PATTERN
WT4 09 3000 GLAZED CERAMIC TILE - REFER TO DETAIL XXA101 FOR TILE PATTERN
WT5 09 3000 GLAZED CERAMIC TILE - REFER TO DETAIL XXA101 FOR TILE PATTERN
WT6 09 3000 GLAZED CERAMIC TILE - REFER TO DETAIL XXA101 FOR TILE PATTERN
WF1 09 8413 FELT PANEL FINISH
WF2 09 8413 FELT PANEL FINISH
TP1 03 4713 SEALED TILT PANEL

1. INTERIOR SURFACES ONLY. FOR EXTERIOR USE WATER REPELLANT BY SECTION 07 1900
2. REFER TO SECTION 09 9123 TO CLEAN AND PRIME WALLS AS NECESSARY WHERE PLASTIC LAMINATES PLANELS OR VINYL WALL COVERING IS SCHEDULED TO OCCUR
3. SCHLUTER EDGE PROTECTION AT ALL EXPOSED EDGES, CORNERS, FLOOR, & TILE TRANSITIONS, AS PER SECTION 09 3000
4. COORDINATE PANEL JOINTS WITH ARCHITECT PRIOR TO INSTALLATION

BASE FINISH

B1 09 6813 4" CARPET BASE, CLASSROOMS, ADMIN, MEDIA CENTER
B2 09 6519 4" COVE RUBBER BASE, MULTI-PURPOSE, STAGE
B3 09 3000 6" GLAZED CERAMIC TILE, KITCHEN

1. INSTALL SEALANT BETWEEN BASE AND FLOOR TILE AS TCNA APPLICATIONS REQUIRE, SECTION 09 3000
2. METAL TRIM AT TOP OF BASE WHERE NO TILE BASE OCCURS BY SPEC SECTION 09 3000

NWL-LEGEND - KEYNOTE

KEY VALUE	NOTE
06.41.C	06 4100/ 06 6116 - PLASTIC LAMINATE OR SOLID SURFACE COUNTERTOP, AND BACKSPLASH WHERE OCCURS. REFER TO INTERIOR ELEVATIONS FOR MORE INFORMATION.
06.61.A	06 6116 - SOLID SURFACE WINDOW SILL
08.11.A	08 1113 - HOLLOW METAL DOOR OR WINDOW FRAME. REFER TO SCHEDULES AND DETAILS
08.14.A	08 1416 - FLUSH WOOD DOORS. REFER TO SCHEDULES AND DETAILS
08.43.A	08 4313 - ALUMINUM FRAMED STOREFRONT AND DOOR. REFER TO OPENING ELEVATIONS AND DETAILS.
22.00.A	22 0000 - HAND WASH SINK. REFER TO PLUMBING DRAWINGS
26.1	26 0000 - LV BUTTON. REFER TO ELECTRICAL
26.14	26 0000 - OUTLET. REFER TO ELECTRICAL DRAWINGS
26.18	26 0000 - INTERCOM STATION. REFER TO ELECTRICAL
26.22	26 0000 - DATA PORT. REFER TO ELECTRICAL DRAWINGS
26.23	26 0000 - DIGITAL DISPLAY BOARD. REFER TO ELECTRICAL DRAWINGS
28.2	28 0000 - FIRE ALARM PULL STATION. REFER TO ELECTRICAL DRAWINGS & SPECIFICATION
28.5	28 0000 - FIRE ALARM ANNUNCIATOR PANEL. REFER TO ELECTRICAL PLANS & SPECIFICATIONS
28.6	28 0000 - SECURITY CREDENTIALS PANEL. REFER TO ELECTRICAL PLANS & SPECIFICATIONS

naylor wentworth lund
a r c h i t e c t s

CACHE COUNTY
SCHOOL DISTRICT

HYDE PARK ELEMENTARY SCHOOL
333 EAST 300 NORTH
HYDE PARK CITY, UT
84318

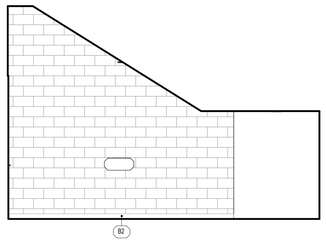
DRAWING ISSUE	BID SET
ISSUE DATE	03/25/2025
NWL PROJECT	0118.002

STATE OF UTAH
NAYLOR WENTWORTH LUND ARCHITECTS
#319164
#183992
#7247356
LICENSED ARCHITECT

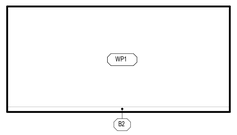
	DATE	REVISION
2	4/8/2025	ADDENDUM 3

INTERIOR ELEVATIONS

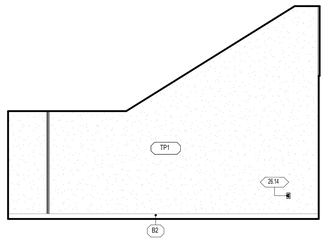
A405



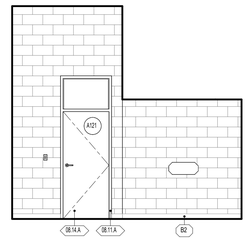
E1 A407 **A121 - STORAGE - NORTH**
1/4" = 1'-0"



E2 A407 **A121 - STORAGE - EAST**
1/4" = 1'-0"

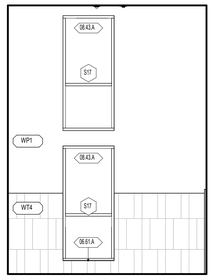


E3 A407 **A121 - STORAGE - SOUTH**
1/4" = 1'-0"

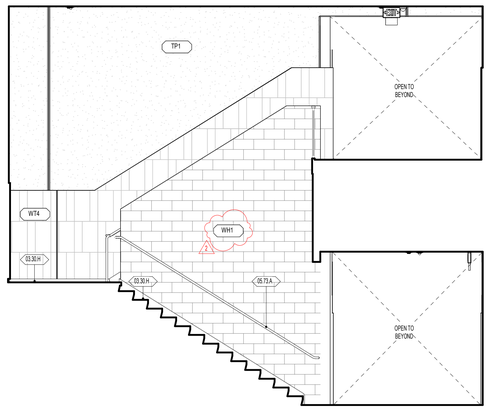


E4 A407 **A121 - STORAGE - WEST**
1/4" = 1'-0"

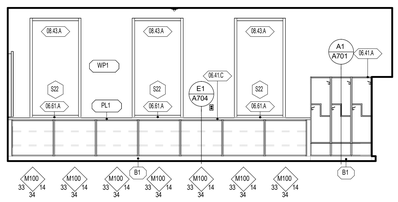
D4 A407 **ST2 - NORTH STAIR - NORTH**
1/4" = 1'-0"



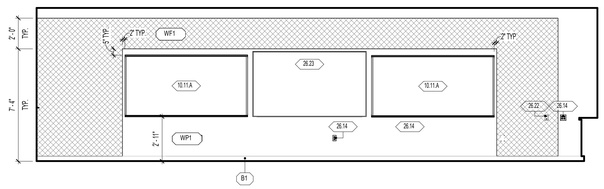
D1 A407 **ST2 - NORTH STAIR - EAST**
1/4" = 1'-0"



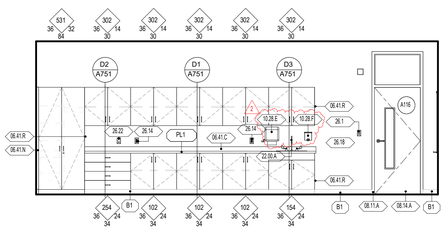
C3 A407 **ST2 - NORTH STAIR - SOUTH**
1/4" = 1'-0"



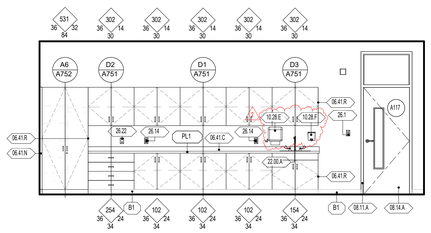
C1 A407 **A117 - CLASSROOM GRADE 4 - WEST**
1/4" = 1'-0"



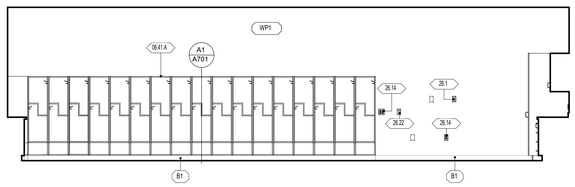
C4 A407 **A117 - CLASSROOM GRADE 4 - SOUTH**
1/4" = 1'-0"



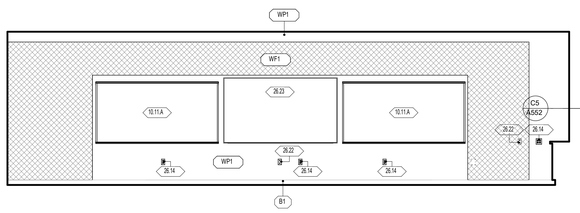
B1 A407 **A116 - CLASSROOM GRADE 3 - EAST**
1/4" = 1'-0"



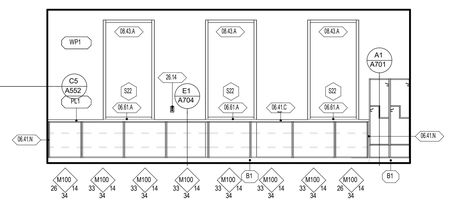
B3 A407 **A117 - CLASSROOM GRADE 4 - EAST**
1/4" = 1'-0"



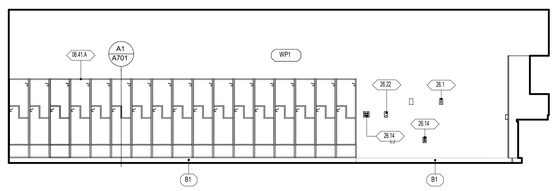
B4 A407 **A117 - CLASSROOM GRADE 4 - NORTH**
1/4" = 1'-0"



A1 A407 **A116 - CLASSROOM GRADE 3 - SOUTH**
1/4" = 1'-0"



A3 A407 **A116 - CLASSROOM GRADE 3 - WEST**
1/4" = 1'-0"



A4 A407 **A116 - CLASSROOM GRADE 3 - NORTH**
1/4" = 1'-0"

GENERAL NOTES - ENLARGED REFERENCE PLANS

1. REFER TO SHEET A401 FOR TOILET ROOM ACCESSORY SCHEDULE AND MOUNTING HEIGHTS.
2. FINAL LOCATION OF ALL TOILET ROOM ACCESSORIES TO BE COORDINATED WITH ARCHITECT/OWNER PRIOR TO INSTALLATION.
3. ALIGN ALL BASE TRANSITIONS WITH FLOORING TRANSITIONS, AS SHOWN ON THE FINISH FLOOR PLANS
4. PAINT ALL EXPOSED DUCTWORK, PIPING, CONDUITS, SUPPORTS, STEEL STRUCTURE, DECK, ETC. SHOWN IN ELEVATIONS.
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6. PROVIDE A TRANSITION STRIP BETWEEN DIFFERING FLOOR COVERINGS, REFER TO SHEET A800 FOR TYPICAL TRANSITION DETAILS.
7. PROVIDE FILLERS AT ALL END LOCATIONS WHERE LOCKERS OR MILLWORK DO NOT FILL THE WHOLE EXTEND OF THE SPACE SHOWN.
8. ALL ARCHITECTURAL CASEWORK NUMBERS NOTED ARE PER WI STANDARDS.

WALL TYPE
WALL TYPE MARK, REFER TO WALL TYPES ON SHEETS A500.
FIRE RATING INDICATOR
ACOUSTICAL INDICATOR

DIVISION
00.00.XX KEYNOTE MARKER
SECTION SEQUENCE
SECTION

DOOR TYPE
A101A DOOR TYPE MARK, REFER TO DOOR SCHEDULE.
SHEET LOCATION

WINDOW TYPE
W1 WINDOW TYPE MARK, REFER TO WINDOW SCHEDULE.
SHEET LOCATION

WALL FINISH

WP1	09 9123 PURE WHITE FINISH ON GYPSUM BOARD
WP2	09 9123 PURE WHITE EPOXY FINISH ON GYPSUM - CUSTODIAL, KITCHEN OFFICE, STORAGE
WP3	09 9123 PURE WHITE EPOXY FINISH ON CMU AND CONC. - CUSTODIAL, STORAGE, IDF, MECH, MDF
WP4	09 9123 BLACK SEMI-GLOSS FINISH ON CMU AND CONC. - STAGE
WP5	09 9123 EPOXY SEMI-GLOSS FINISH ON STEEL
WT1	09 3000 GLAZED CERAMIC TILE - REFER TO DETAIL XXA101 FOR TILE PATTERN
WT2	09 3000 GLAZED CERAMIC TILE - REFER TO DETAIL XXA101 FOR TILE PATTERN
WT3	09 3000 GLAZED CERAMIC TILE - REFER TO DETAIL XXA101 FOR TILE PATTERN
WT4	09 3000 GLAZED CERAMIC TILE - REFER TO DETAIL XXA101 FOR TILE PATTERN
WT5	09 3000 GLAZED CERAMIC TILE - REFER TO DETAIL XXA101 FOR TILE PATTERN
WT6	09 3000 GLAZED CERAMIC TILE - REFER TO DETAIL XXA101 FOR TILE PATTERN
WF1	09 8413 FELT PANEL FINISH
WF2	09 8413 FELT PANEL FINISH
TP1	03 4713 SEALED TILT PANEL

1. INTERIOR SURFACES ONLY. FOR EXTERIOR USE WATER REPELLANT BY SECTION 07 1900
2. REFER TO SECTION 09 9123 TO CLEAN AND PRIME WALLS AS NECESSARY WHERE PLASTIC LAMINATES PLANELS OR VINYL WALL COVERING IS SCHEDULED TO OCCUR
3. SCHLUTER EDGE PROTECTION AT ALL EXPOSED EDGES, CORNERS, FLOOR, & TILE TRANSITIONS, AS PER SECTION 09 3000
4. COORDINATE PANEL JOINTS WITH ARCHITECT PRIOR TO INSTALLATION

BASE FINISH

B1	09 6813 4" CARPET BASE, CLASSROOMS, ADMIN, MEDIA CENTER
B2	09 6519 4" COVE RUBBER BASE, MULTI-PURPOSE, STAGE
B3	09 3000 6" GLAZED CERAMIC TILE, KITCHEN

1. INSTALL SEALANT BETWEEN BASE AND FLOOR TILE AS TCNA APPLICATIONS REQUIRE, SECTION 09 3000
2. METAL TRIM AT TOP OF BASE WHERE NO TILE BASE OCCURS BY SPEC SECTION 09 3000

NWL-LEGEND - KEYNOTE

KEY VALUE	NOTE
03.30.H	03 3000 - REINFORCED CONCRETE STAIRS, ARCHITECTURAL FINISH. REFER TO STRUCTURAL DRAWINGS
05.73.A	05 7300 - DECORATIVE METAL RAILINGS, REFER TO STAIR DETAILS FOR ADDITIONAL INFORMATION
06.41.A	06 4100 - ARCHITECTURAL CASEWORK, REFER TO INTERIOR ELEVATIONS AND CASEWORK DETAILS
06.41.C	06 41/00 06 6116 - PLASTIC LAMINATE OR SOLID SURFACE COUNTERTOP, AND BACKSPLASH WHERE OCCURS. REFER TO INTERIOR ELEVATIONS FOR MORE INFORMATION.
06.41.N	06 4100 - CASEWORK FILLER
06.41.R	06 4100 - FINISH END PANEL AT NONE WALL TERMINATING CASEWORK
06.61.A	06 6116 - SOLID SURFACE WINDOW SILL
08.11.A	08 1113 - HOLLOW METAL DOOR OR WINDOW FRAME. REFER TO SCHEDULES AND DETAILS
08.14.A	08 1416 - FLUSH WOOD DOORS. REFER TO SCHEDULES AND DETAILS
08.43.A	08 4313 - ALUMINUM FRAMED STOREFRONT AND DOOR. REFER TO OPENING ELEVATIONS AND DETAILS
10.11.A	10 1100 - MARKER BOARD PER SPECIFICATION
10.28.E	10 2800 - PAPER TOWEL DISPENSER, OWNER PROVIDED CONTRACTOR INSTALLED. PROVIDE SOLID BLOCKING IN WALL AS REQUIRED
10.28.F	10 2800 - SOAP DISPENSER, REFER TO SPECIFICATION
22.00.A	22 0000 - HAND WASH SINK, REFER TO PLUMBING DRAWINGS
26.1	26 0000 - LV BUTTON, REFER TO ELECTRICAL
26.14	26 0000 - OUTLET, REFER TO ELECTRICAL DRAWINGS
26.18	26 0000 - INTERCOM STATION, REFER TO ELECTRICAL
26.22	26 0000 - DATA PORT, REFER TO ELECTRICAL DRAWINGS
26.23	26 0000 - DIGITAL DISPLAY BOARD, REFER TO ELECTRICAL DRAWINGS

naylor wentworth lund
architects

CACHE COUNTY
SCHOOL DISTRICT

HYDE PARK ELEMENTARY SCHOOL
332 EAST 300 NORTH
HYDE PARK CITY, UT
84318

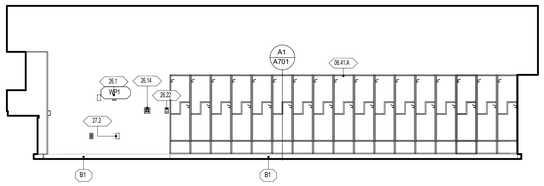
DRAWING ISSUE	BID SET
ISSUE DATE	03/25/2025
NWL PROJECT	0119.002

STATE OF UTAH
NAYLOR WENTWORTH LUND ARCHITECTS
#319164
#183992
#7247356
LICENSED ARCHITECT

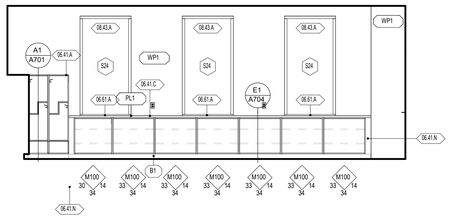
	DATE	REVISION
2	4/8/2025	ADDENDUM 3

INTERIOR ELEVATIONS

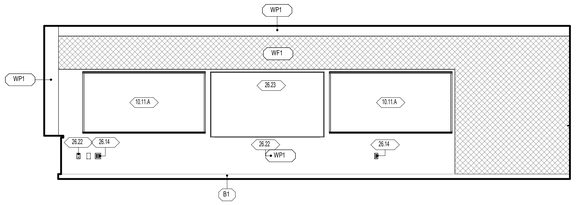
A407



E1 A125 - CLASSROOM GRADE 5 - a
A408 1/4" = 1'-0"

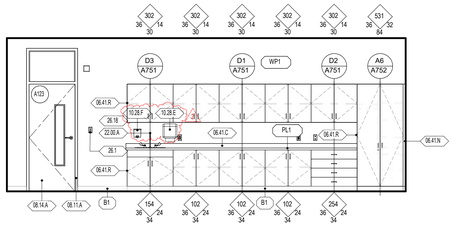


E3 A125 - CLASSROOM GRADE 5 - EAST
A408 1/4" = 1'-0"

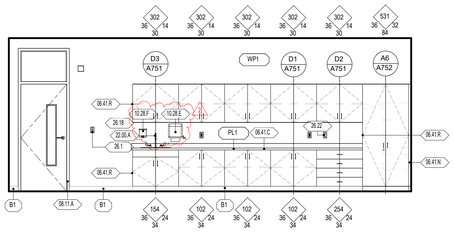


E4 A125 - CLASSROOM GRADE 5 - SOUTH
A408 1/4" = 1'-0"

E



D1 A125 - CLASSROOM GRADE 5 - WEST
A408 1/4" = 1'-0"



D3 A122 - CLASSROOM GRADE 5 - WEST
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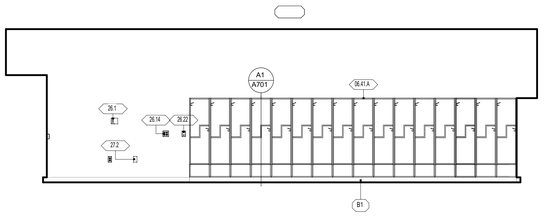
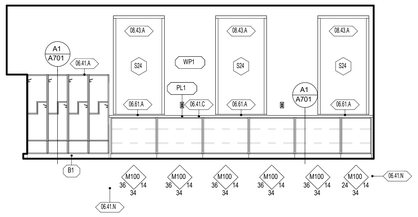
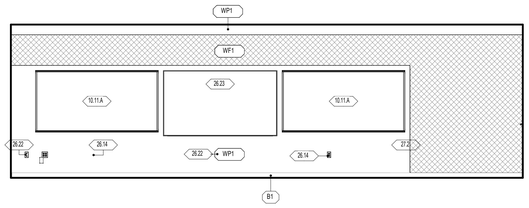


D4 A122 - CLASSROOM GRADE 5 - NORTH
A408 1/4" = 1'-0"

D



C1 A122 - CLASSROOM GRADE 5 - EAST
A408 1/4" = 1'-0"



C3 A122 - CLASSROOM GRADE 5 - SOUTH
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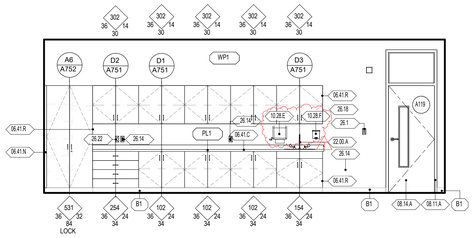
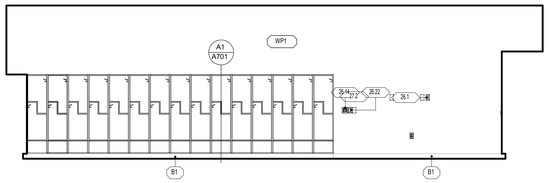
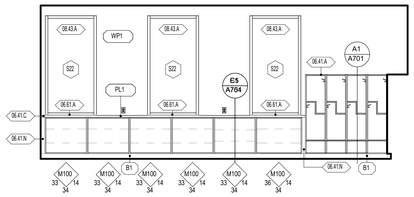


C4 A119 - CLASSROOM GRADE 4 - EAST
A408 1/4" = 1'-0"

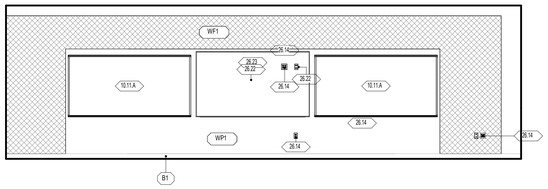
C



B1 A119 - CLASSROOM GRADE 4 - NORTH
A408 1/4" = 1'-0"

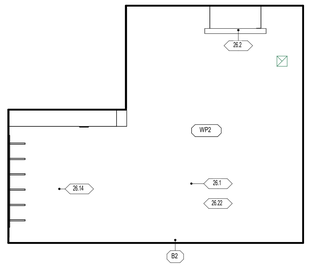


B3 A119 - CLASSROOM GRADE 4 - WEST
A408 1/4" = 1'-0"

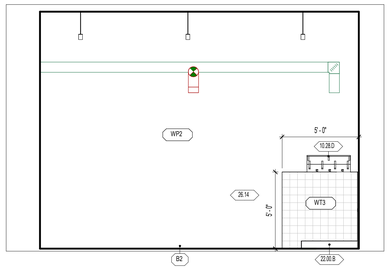


B4 A119 - CLASSROOM GRADE 4 - SOUTH
A408 1/4" = 1'-0"

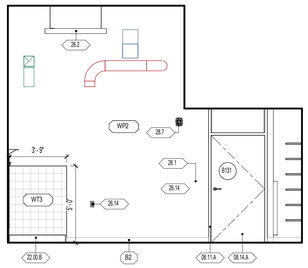
B



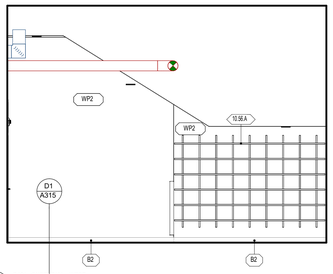
A1 B131 - CUSTODIAL - NORTH
A408 1/4" = 1'-0"



A2 B131 - CUSTODIAL - EAST
A408 1/4" = 1'-0"



A3 B131 - CUSTODIAL - SOUTH
A408 1/4" = 1'-0"



A4 B131 - CUSTODIAL - WEST
A408 1/4" = 1'-0"

A

1 2 3 4 5 6

GENERAL NOTES - ENLARGED REFERENCE PLANS

1. REFER TO SHEET A401 FOR TOILET ROOM ACCESSORY SCHEDULE AND MOUNTING HEIGHTS.
2. FINAL LOCATION OF ALL TOILET ROOM ACCESSORIES TO BE COORDINATED WITH ARCHITECT/OWNER PRIOR TO INSTALLATION.
3. ALIGN ALL BASE TRANSITIONS WITH FLOORING TRANSITIONS, AS SHOWN ON THE FINISH FLOOR PLANS
4. PAINT ALL EXPOSED DUCTWORK, PIPING, CONDUITS, SUPPORTS, STEEL STRUCTURE, DECK, ETC. SHOWN IN ELEVATIONS.
5. SEE ELECTRICAL SHEETS FOR LOCATIONS OF OUTLETS, SWITCHES, DATA, TELEPHONE, TELEVISION, INTERCOMS, CLOCKS, SPEAKERS, HORNS, STROBES, ETC.
6. PROVIDE A TRANSITION STRIP BETWEEN DIFFERING FLOOR COVERINGS, REFER TO SHEET A800 FOR TYPICAL TRANSITION DETAILS.
7. PROVIDE FILLERS AT ALL END LOCATIONS WHERE LOCKERS OR MILLWORK DO NOT FILL THE WHOLE EXTEND OF THE SPACE SHOWN.
8. ALL ARCHITECTURAL CASEWORK NUMBERS NOTED ARE PER WI STANDARDS.

WALL TYPE
WALL TYPE MARK, REFER TO WALL TYPES ON SHEETS A500.
FIRE RATING INDICATOR
ACOUSTICAL INDICATOR

DIVISION
KEYNOTE MARKER
SECTION SEQUENCE
SECTION

DOOR TYPE
DOOR TYPE MARK, REFER TO DOOR SCHEDULE.
SHEET LOCATION

WINDOW TYPE
WINDOW TYPE MARK, REFER TO WINDOW SCHEDULE.
SHEET LOCATION

WALL FINISH

WP1 09 9123 PURE WHITE FINISH ON GYPSUM BOARD
WP2 09 9123 PURE WHITE EPOXY FINISH ON GYPSUM - CUSTODIAL, KITCHEN OFFICE, STORAGE
WP3 09 9123 PURE WHITE EPOXY FINISH ON CMU AND CONC. - CUSTODIAL, STORAGE, IDF, MECH, MDF
WP4 09 9123 BLACK SEMI-GLOSS FINISH ON CMU AND CONC. - STAGE
WP5 09 9123 EPOXY SEMI-GLOSS FINISH ON STEEL
WT1 09 3000 GLAZED CERAMIC TILE - REFER TO DETAIL XXA101 FOR TILE PATTERN
WT2 09 3000 GLAZED CERAMIC TILE - REFER TO DETAIL XXA101 FOR TILE PATTERN
WT3 09 3000 GLAZED CERAMIC TILE - REFER TO DETAIL XXA101 FOR TILE PATTERN
WT4 09 3000 GLAZED CERAMIC TILE - REFER TO DETAIL XXA101 FOR TILE PATTERN
WT5 09 3000 GLAZED CERAMIC TILE - REFER TO DETAIL XXA101 FOR TILE PATTERN
WT6 09 3000 GLAZED CERAMIC TILE - REFER TO DETAIL XXA101 FOR TILE PATTERN
WF1 09 8413 FELT PANEL FINISH
WF2 09 8413 FELT PANEL FINISH
TP1 03 4713 SEALED TILT PANEL

1. INTERIOR SURFACES ONLY. FOR EXTERIOR USE WATER REPELLANT BY SECTION 07 1900
2. REFER TO SECTION 09 9123 TO CLEAN AND PRIME WALLS AS NECESSARY WHERE PLASTIC LAMINATES PLANELS OR VINYL WALL COVERING IS SCHEDULED TO OCCUR
3. SCHLUTER EDGE PROTECTION AT ALL EXPOSED EDGES, CORNERS, FLOOR, & TILE TRANSITIONS, AS PER SECTION 09 3000
4. COORDINATE PANEL JOINTS WITH ARCHITECT PRIOR TO INSTALLATION

BASE FINISH

B1 09 6813 4" CARPET BASE, CLASSROOMS, ADMIN, MEDIA CENTER
B2 09 6519 4" COVE RUBBER BASE, MULTI-PURPOSE, STAGE
B3 09 3000 6" GLAZED CERAMIC TILE, KITCHEN

1. INSTALL SEALANT BETWEEN BASE AND FLOOR TILE AS TCNA APPLICATIONS REQUIRE. SECTION 09 3000
2. METAL TRIM AT TOP OF BASE WHERE NO TILE BASE OCCURS BY SPEC SECTION 09 3000

NWL-LEGEND - KEYNOTE

KEY VALUE	NOTE
06.41.A	06 4100 - ARCHITECTURAL CASEWORK, REFER TO INTERIOR ELEVATIONS AND CASEWORK DETAILS
06.41.C	06 4100/ 06 6116 - PLASTIC LAMINATE OR SOLID SURFACE COUNTERTOP, AND BACKSPLASH WHERE OCCURS. REFER TO INTERIOR ELEVATIONS FOR MORE INFORMATION.
06.41.N	06 4100 - CASEWORK FILLER
06.41.R	06 4100 - FINISH END PANEL AT NONE WALL TERMINATING CASEWORK.
06.61.A	06 6116 - SOLID SURFACE WINDOW SILL
08.11.A	08 1113 - HOLLOW METAL DOOR OR WINDOW FRAME. REFER TO SCHEDULES AND DETAILS
08.14.A	08 1416 - FLUSH WOOD DOORS. REFER TO SCHEDULES AND DETAILS
08.43.A	08 4313 - ALUMINUM FRAMED STOREFRONT AND DOOR. REFER TO OPENING ELEVATIONS AND DETAILS.
10.11.A	10 1100 - MARKER BOARD PER SPECIFICATION
10.28.D	10 2800 - MOP AND BROOM RACK. PROVIDE SOLID BLOCKING IN WALL AS REQUIRED.
10.28.E	10 2800 - PAPER TOWEL DISPENSER, OWNER PROVIDED CONTRACTOR INSTALLED. PROVIDE SOLID BLOCKING IN WALL AS REQUIRED
10.28.F	10 2800 - SOAP DISPENSER, REFER TO SPECIFICATION
10.56.A	10 5817 - ADJUSTABLE METAL STORAGE SHELVING. REFER TO SPECIFICATION
22.00.A	22 0000 - HAND WASH SINK, REFER TO PLUMBING DRAWINGS
22.00.B	22 0000 - FLOOR SINK, REFER TO PLUMBING DRAWINGS
26.1	26 0000 - LV BUTTON, REFER TO ELECTRICAL
26.2	26 0000 - LIGHTING FIXTURE, REFER TO ELECTRICAL DRAWINGS
26.14	26 0000 - OUTLET, REFER TO ELECTRICAL DRAWINGS
26.18	26 0000 - INTERCOM STATION, REFER TO ELECTRICAL
26.22	26 0000 - DATA PORT, REFER TO ELECTRICAL DRAWINGS
26.23	26 0000 - DIGITAL DISPLAY BOARD, REFER TO ELECTRICAL DRAWINGS
27.2	27 0000 - COMMUNICATIONS WALL BOX, REFER TO ELECTRICAL PLANS
28.7	28 0000 - FIRE ALARM AND SPEAKER PANEL, REFER TO ELECTRICAL PLANS & SPECIFICATIONS

naylor wentworth lund
architects

CACHE COUNTY
SCHOOL DISTRICT

HYDE PARK ELEMENTARY SCHOOL
133 EAST 200 NORTH
HYDE PARK CITY, UT
84318

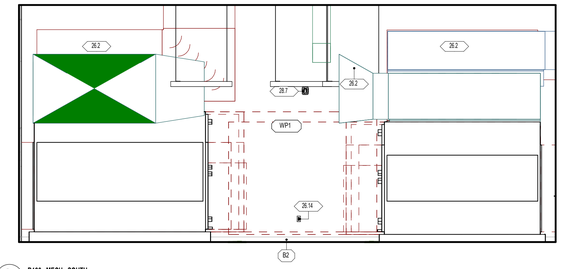
DRAWING ISSUE	BID SET
ISSUE DATE	03/25/2025
NWL PROJECT	01193.002

STATE OF UTAH
NAYLOR WENTWORTH LUND ARCHITECTS
#319164
#183992
#7247356
LICENSED ARCHITECT

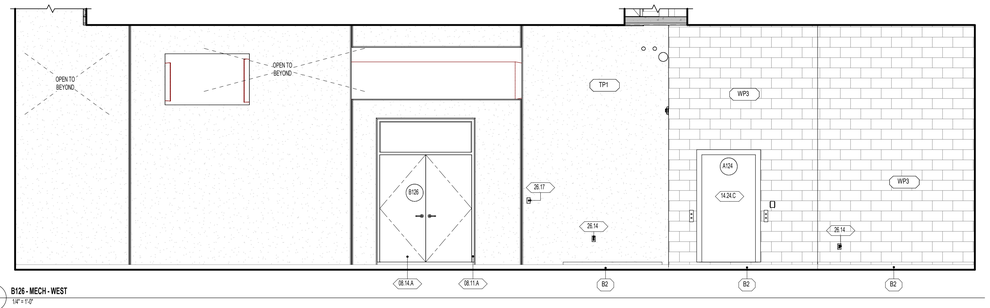
△	DATE	REVISION
2	4/8/2025	ADDENDUM 3

INTERIOR ELEVATIONS

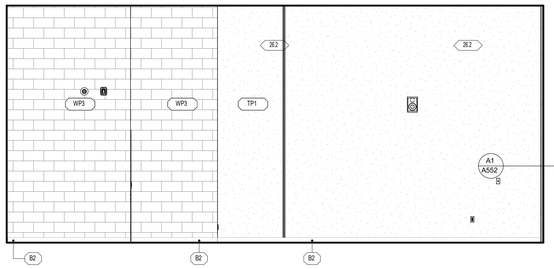
A408



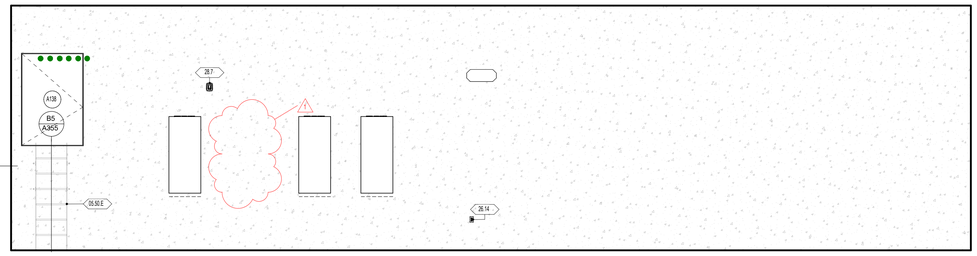
E1 / A409 B126 - MECH - SOUTH
1/4" = 1'-0"



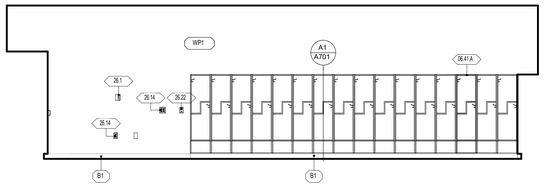
E3 / A409 B126 - MECH - WEST
1/4" = 1'-0"



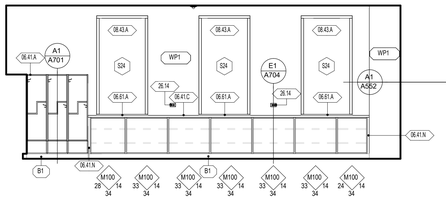
D1 / A409 B126 - MECH - NORTH
1/4" = 1'-0"



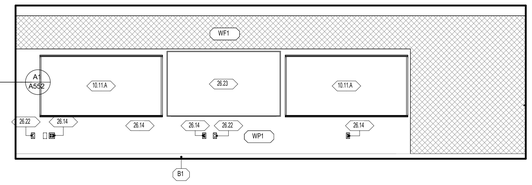
D3 / A409 B126 - MECH - EAST
1/4" = 1'-0"



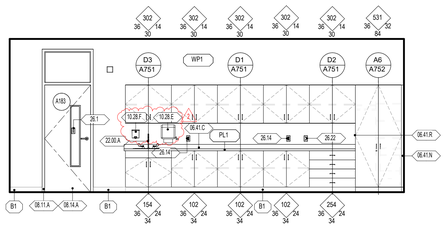
C1 / A409 A125 - CLASSROOM GRADE 3 - NORTH
1/4" = 1'-0"



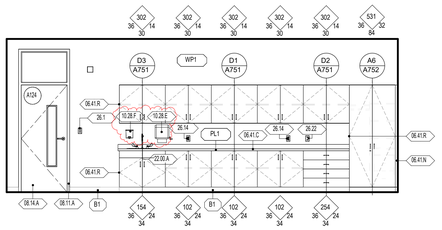
C3 / A409 A125 - CLASSROOM GRADE 3 - EAST
1/4" = 1'-0"



C4 / A409 A125 - CLASSROOM GRADE 3 - SOUTH
1/4" = 1'-0"



B1 / A409 A125 - CLASSROOM GRADE 3 - WEST
1/4" = 1'-0"



B3 / A409 A124 - CLASSROOM GRADE 5 - WEST
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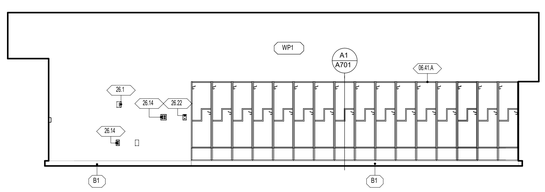

A1 / A409 A124 - CLASSROOM GRADE 5 - NORTH
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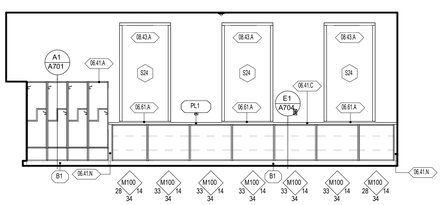
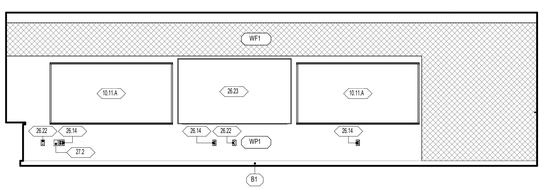


A3 / A409 A124 - CLASSROOM GRADE 5 - b
1/4" = 1'-0"



A4 / A409 A124 - CLASSROOM GRADE 5 - c
1/4" = 1'-0"

GENERAL NOTES - ENLARGED REFERENCE PLANS

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3. ALIGN ALL BASE TRANSITIONS WITH FLOORING TRANSITIONS, AS SHOWN ON THE FINISH FLOOR PLANS
4. PAINT ALL EXPOSED DUCTWORK, PIPING, CONDUITS, SUPPORTS, STEEL STRUCTURE, DECK, ETC. SHOWN IN ELEVATIONS.
5. SEE ELECTRICAL SHEETS FOR LOCATIONS OF OUTLETS, SWITCHES, DATA, TELEPHONE, TELEVISION, INTERCOMS, CLOCKS, SPEAKERS, HORNS, STROBES, ETC.
6. PROVIDE A TRANSITION STRIP BETWEEN DIFFERING FLOOR COVERINGS, REFER TO SHEET A800 FOR TYPICAL TRANSITION DETAILS.
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8. ALL ARCHITECTURAL CASEWORK NUMBERS NOTED ARE PER WI STANDARDS.

WALL TYPE
WALL TYPE MARK, REFER TO WALL TYPES ON SHEETS A500.
FIRE RATING INDICATOR
ACOUSTICAL INDICATOR

DIVISION
KEYNOTE MARKER
SECTION SEQUENCE
SECTION

DOOR TYPE
DOOR TYPE MARK, REFER TO DOOR SCHEDULE.
SHEET LOCATION

WINDOW TYPE
WINDOW TYPE MARK, REFER TO WINDOW SCHEDULE.
SHEET LOCATION

WALL FINISH

WP1 09 9123 PURE WHITE FINISH ON GYPSUM BOARD
WP2 09 9123 PURE WHITE EPOXY FINISH ON GYPSUM - CUSTODIAL, KITCHEN OFFICE, STORAGE
WP3 09 9123 PURE WHITE EPOXY FINISH ON CMU AND CONC. - CUSTODIAL, STORAGE, IDF, MECH, MDF
WP4 09 9123 BLACK SEMI-GLOSS FINISH ON CMU AND CONC. - STAGE
WP5 09 9123 EPOXY SEMI-GLOSS FINISH ON STEEL
WT1 09 3000 GLAZED CERAMIC TILE - REFER TO DETAIL XXA101 FOR TILE PATTERN
WT2 09 3000 GLAZED CERAMIC TILE - REFER TO DETAIL XXA101 FOR TILE PATTERN
WT3 09 3000 GLAZED CERAMIC TILE - REFER TO DETAIL XXA101 FOR TILE PATTERN
WT4 09 3000 GLAZED CERAMIC TILE - REFER TO DETAIL XXA101 FOR TILE PATTERN
WT5 09 3000 GLAZED CERAMIC TILE - REFER TO DETAIL XXA101 FOR TILE PATTERN
WT6 09 3000 GLAZED CERAMIC TILE - REFER TO DETAIL XXA101 FOR TILE PATTERN
WF1 09 8413 FELT PANEL FINISH
WF2 09 8413 FELT PANEL FINISH
TP1 03 4713 SEALED TILT PANEL

1. INTERIOR SURFACES ONLY. FOR EXTERIOR USE WATER REPELLANT BY SECTION 07 1900
2. REFER TO SECTION 09 9123 TO CLEAN AND PRIME WALLS AS NECESSARY WHERE PLASTIC LAMINATES PLANELS OR VINYL WALL COVERING IS SCHEDULED TO OCCUR
3. SCHLUTER EDGE PROTECTION AT ALL EXPOSED EDGES, CORNERS, FLOOR, & TILE TRANSITIONS, AS PER SECTION 09 3000
4. COORDINATE PANEL JOINTS WITH ARCHITECT PRIOR TO INSTALLATION

BASE FINISH

B1 09 6813 4" CARPET BASE, CLASSROOMS, ADMIN, MEDIA CENTER
B2 09 6519 4" COVE RUBBER BASE, MULTI-PURPOSE, STAGE
B3 09 3000 6" GLAZED CERAMIC TILE, KITCHEN

1. INSTALL SEALANT BETWEEN BASE AND FLOOR TILE AS TCNA APPLICATIONS REQUIRE. SECTION 09 3000
2. METAL TRIM AT TOP OF BASE WHERE NO TILE BASE OCCURS BY SPEC SECTION 09 3000

NWL-LEGEND - KEYNOTE

KEY VALUE	NOTE
05.50.E	05 5000 - PAINTED STEEL ACCESS LADDER
06.41.A	06 4100 - ARCHITECTURAL CASEWORK, REFER TO INTERIOR ELEVATIONS AND CASEWORK DETAILS
06.41.C	06 4100/ 06 6116 - PLASTIC LAMINATE OR SOLID SURFACE COUNTERTOP, AND BACKSPLASH WHERE OCCURS. REFER TO INTERIOR ELEVATIONS FOR MORE INFORMATION.
06.41.N	06 4100 - CASEWORK FILLER
06.41.R	06 4100 - FINISH END PANEL AT NONE WALL TERMINATING CASEWORK
06.61.A	06 6116 - SOLID SURFACE WINDOW SILL
08.11.A	08 1113 - HOLLOW METAL DOOR OR WINDOW FRAME. REFER TO SCHEDULES AND DETAILS
08.14.A	08 1416 - FLUSH WOOD DOORS. REFER TO SCHEDULES AND DETAILS
08.43.A	08 4313 - ALUMINUM FRAMED STOREFRONT AND DOOR. REFER TO OPENING ELEVATIONS AND DETAILS.
10.11.A	10 1100 - MARKER BOARD PER SPECIFICATION
10.28.E	10 2800 - PAPER TOWEL DISPENSER, OWNER PROVIDED CONTRACTOR INSTALLED. PROVIDE SOLID BLOCKING IN WALL AS REQUIRED
10.28.F	10 2800 - SOAP DISPENSER. REFER TO SPECIFICATION
14.24.C	14 2400 - ELEVATOR DOOR FRAME, PROVIDED BY ELEVATOR MANUFACTURER
22.00.A	22 0000 - HAND WASH SINK, REFER TO PLUMBING DRAWINGS
26.1	26 0000 - LV BUTTON. REFER TO ELECTRICAL
26.2	26 0000 - LIGHTING FIXTURE. REFER TO ELECTRICAL DRAWINGS
26.14	26 0000 - OUTLET. REFER TO ELECTRICAL DRAWINGS
26.17	26 0000 - LIGHT CALL BOX. REFER TO ELECTRICAL DRAWINGS
26.22	26 0000 - DATA PORT. REFER TO ELECTRICAL DRAWINGS
26.23	26 0000 - DIGITAL DISPLAY BOARD. REFER TO ELECTRICAL DRAWINGS
27.2	27 0000 - COMMUNICATIONS WALL BOX. REFER TO ELECTRICAL PLANS
28.7	28 0000 - FIRE ALARM AND SPEAKER PANEL. REFER TO ELECTRICAL PLANS & SPECIFICATIONS

naylor wentworth lund
architects

CACHE COUNTY
SCHOOL DISTRICT

HYDE PARK ELEMENTARY SCHOOL
332 EAST 300 NORTH
HYDE PARK CITY, UT
84318

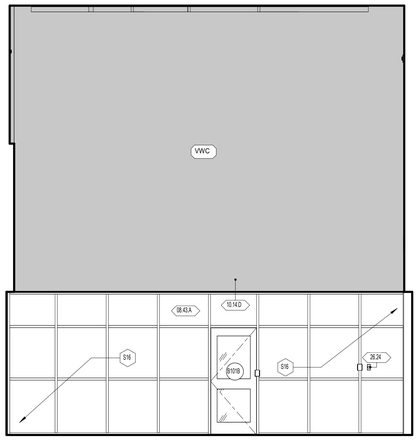
STATE OF UTAH
NAYLOR WENTWORTH LUND ARCHITECTS
#319164
#183992
#7247356
LICENSED ARCHITECT

DRAWING ISSUE	BID SET
ISSUE DATE	03/25/2025
NWL PROJECT	0119.002

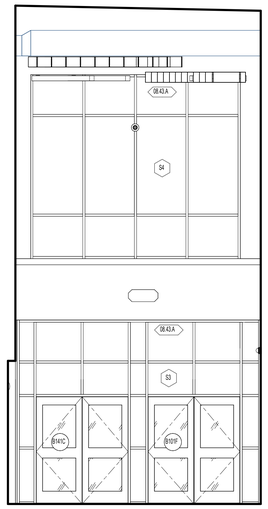
△	DATE	REVISION
1	04/01/2025	ADDENDUM 2
2	4/8/2025	ADDENDUM 3

INTERIOR ELEVATIONS

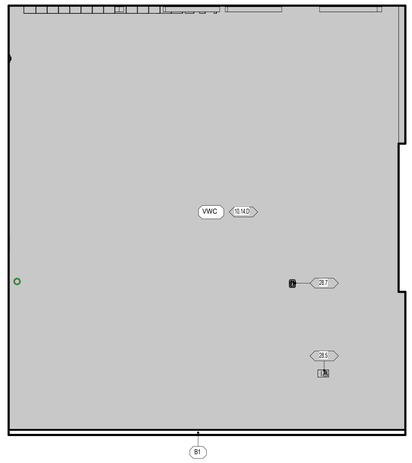
A409



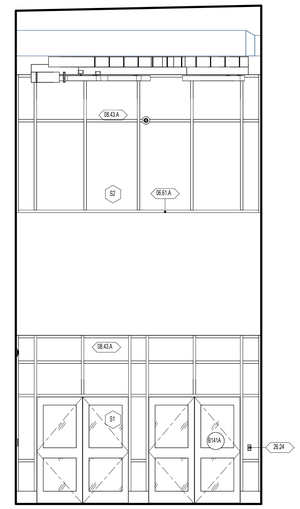
D1 A411 B141 - MAIN ENTRY VESTIBULE - NORTH
1/4" = 1'-0"



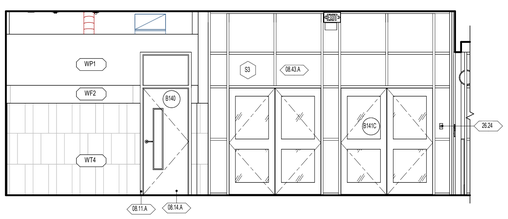
D2 A411 B141 - MAIN ENTRY VESTIBULE - EAST
1/4" = 1'-0"



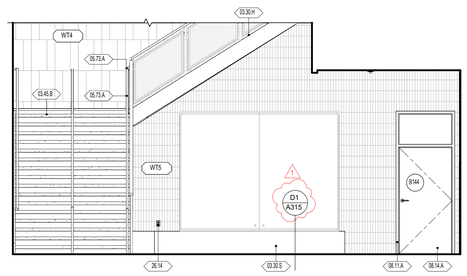
D3 A411 B141 - MAIN ENTRY VESTIBULE - SOUTH
1/4" = 1'-0"



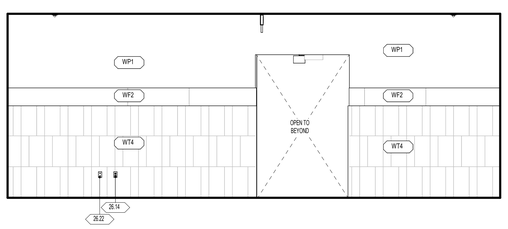
D4 A411 B141 - MAIN ENTRY VESTIBULE - WEST
1/4" = 1'-0"



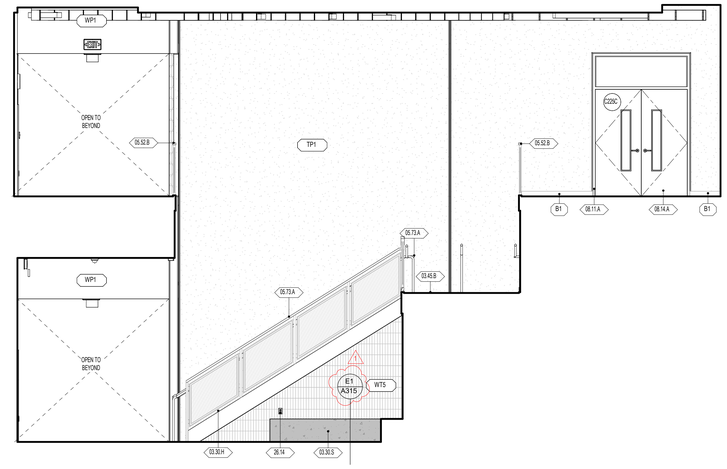
C1 A411 B142 - ENTRY B1 - WEST
1/4" = 1'-0"



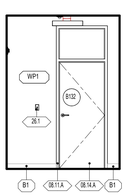
C3 A411 B142 - ENTRY B1 - EAST
1/4" = 1'-0"



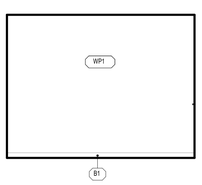
B1 A411 B142 - ENTRY B1 - SOUTH
1/4" = 1'-0"



B4 A411 B142 - ENTRY B1 - NORTH
1/4" = 1'-0"



A1 A411 B144 - VESTIBULE - EAST
1/4" = 1'-0"



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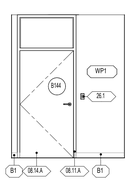
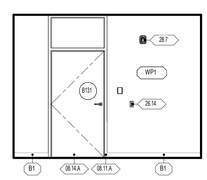
1/4" = 1'-0"



A3 A411 B144 - VESTIBULE - WEST
1/4" = 1'-0"



A4 A411 B144 - VESTIBULE - NORTH
1/4" = 1'-0"

GENERAL NOTES - ENLARGED REFERENCE PLANS

1. REFER TO SHEET A401 FOR TOILET ROOM ACCESSORY SCHEDULE AND MOUNTING HEIGHTS.
2. FINAL LOCATION OF ALL TOILET ROOM ACCESSORIES TO BE COORDINATED WITH ARCHITECT/OWNER PRIOR TO INSTALLATION.
3. ALIGN ALL BASE TRANSITIONS WITH FLOORING TRANSITIONS, AS SHOWN ON THE FINISH FLOOR PLANS
4. PAINT ALL EXPOSED DUCTWORK, PIPING, CONDUITS, SUPPORTS, STEEL STRUCTURE, DECK, ETC. SHOWN IN ELEVATIONS.
5. SEE ELECTRICAL SHEETS FOR LOCATIONS OF OUTLETS, SWITCHES, DATA, TELEPHONE, TELEVISION, INTERCOMS, CLOCKS, SPEAKERS, HORNS, STROBES, ETC.
6. PROVIDE A TRANSITION STRIP BETWEEN DIFFERING FLOOR COVERINGS, REFER TO SHEET A800 FOR TYPICAL TRANSITION DETAILS.
7. PROVIDE FILLERS AT ALL END LOCATIONS WHERE LOCKERS OR MILLWORK DO NOT FILL THE WHOLE EXTEND OF THE SPACE SHOWN.
8. ALL ARCHITECTURAL CASEWORK NUMBERS NOTED ARE PER WI STANDARDS.

WALL FINISH

WP1	09 9123 PURE WHITE FINISH ON GYPSUM BOARD
WP2	09 9123 PURE WHITE EPOXY FINISH ON GYPSUM - CUSTODIAL, KITCHEN OFFICE, STORAGE
WP3	09 9123 PURE WHITE EPOXY FINISH ON CMU AND CONC. - CUSTODIAL, STORAGE, IDF, MECH, MDF
WP4	09 9123 BLACK SEMI-GLOSS FINISH ON CMU AND CONC. - STAGE
WP5	09 9123 EPOXY SEMI-GLOSS FINISH ON STEEL
WT1	09 3000 GLAZED CERAMIC TILE - REFER TO DETAIL XXA/101 FOR TILE PATTERN
WT2	09 3000 GLAZED CERAMIC TILE - REFER TO DETAIL XXA/101 FOR TILE PATTERN
WT3	09 3000 GLAZED CERAMIC TILE - REFER TO DETAIL XXA/101 FOR TILE PATTERN
WT4	09 3000 GLAZED CERAMIC TILE - REFER TO DETAIL XXA/101 FOR TILE PATTERN
WT5	09 3000 GLAZED CERAMIC TILE - REFER TO DETAIL XXA/101 FOR TILE PATTERN
WT6	09 3000 GLAZED CERAMIC TILE - REFER TO DETAIL XXA/101 FOR TILE PATTERN
WF1	09 8413 FELT PANEL FINISH
WF2	09 8413 FELT PANEL FINISH
TP1	03 4713 SEALED TILT PANEL

1. INTERIOR SURFACES ONLY. FOR EXTERIOR USE WATER REPELLANT BY SECTION 07 1900
2. REFER TO SECTION 09 9123 TO CLEAN AND PRIME WALLS AS NECESSARY WHERE PLASTIC LAMINATES PLANELS OR VINYL WALL COVERING IS SCHEDULED TO OCCUR
3. SCHLUTER EDGE PROTECTION AT ALL EXPOSED EDGES, CORNERS, FLOOR, & TILE TRANSITIONS, AS PER SECTION 09 3000
4. COORDINATE PANEL JOINTS WITH ARCHITECT PRIOR TO INSTALLATION

BASE FINISH

B1	09 6813 4" CARPET BASE, CLASSROOMS, ADMIN, MEDIA CENTER
B2	09 6519 4" COVE RUBBER BASE, MULTI-PURPOSE, STAGE
B3	09 3000 6" GLAZED CERAMIC TILE, KITCHEN

1. INSTALL SEALANT BETWEEN BASE AND FLOOR TILE AS TCNA APPLICATIONS REQUIRE, SECTION 09 3000
2. METAL TRIM AT TOP OF BASE WHERE NO TILE BASE OCCURS BY SPEC SECTION 09 3000

NWL-LEGEND - KEYNOTE

KEY VALUE	NOTE
03.30.H	03 3000 - REINFORCED CONCRETE STAIRS, ARCHITECTURAL FINISH. REFER TO STRUCTURAL DRAWINGS
03.30.S	03 3000 - REINFORCED CONCRETE BENCH OVER GEOFOAM
03.45.B	03 4500 - PRECAST COLORED CONCRETE STAIR TREAD AS DETAILED, REFER TO DETAIL E2/ A357 AND E5/ A357.
05.52.B	
05.73.A	05 7300 - DECORATIVE METAL RAILINGS, REFER TO STAIR DETAILS FOR ADDITIONAL INFORMATION
06.61.A	06 6116 - SOLID SURFACE WINDOW SILL
08.11.A	08 1113 - HOLLOW METAL DOOR OR WINDOW FRAME. REFER TO SCHEDULES AND DETAILS
08.14.A	08 1416 - FLUSH WOOD DOORS, REFER TO SCHEDULES AND DETAILS
08.43.A	08 4313 - ALUMINUM FRAMED STOREFRONT AND DOOR, REFER TO OPENING ELEVATIONS AND DETAILS.
10.14.D	10 1425 - WALL GRAPHIC
26.1	26 0000 - LV BUTTON, REFER TO ELECTRICAL
26.14	26 0000 - OUTLET, REFER TO ELECTRICAL DRAWINGS
26.22	26 0000 - DATA PORT, REFER TO ELECTRICAL DRAWINGS
26.24	26 0000 - POWER BUTTON, REFER TO ELECTRICAL
28.5	28 0000 - FIRE ALARM ANNUNCIATOR PANEL, REFER TO ELECTRICAL PLANS & SPECIFICATIONS
28.7	28 0000 - FIRE ALARM AND SPEAKER PANEL, REFER TO ELECTRICAL PLANS & SPECIFICATIONS

naylor wentworth lund
a r c h i t e c t s

CACHE COUNTY
SCHOOL DISTRICT

HYDE PARK ELEMENTARY SCHOOL
333 EAST 300 NORTH
HYDE PARK, UTAH, UT
84318

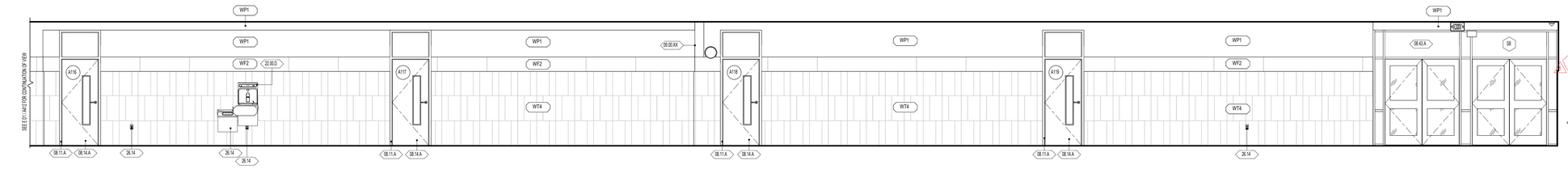
DRAWING ISSUE	
ISSUE DATE	BID SET 03/25/2025
NWL PROJECT	01/19/202

STATE OF UTAH
NAYLOR WENTWORTH LUND ARCHITECTS
#319164
#183992
#7247356
LICENSED ARCHITECT

DATE	REVISION
1 04/01/2025	ADDENDUM 2

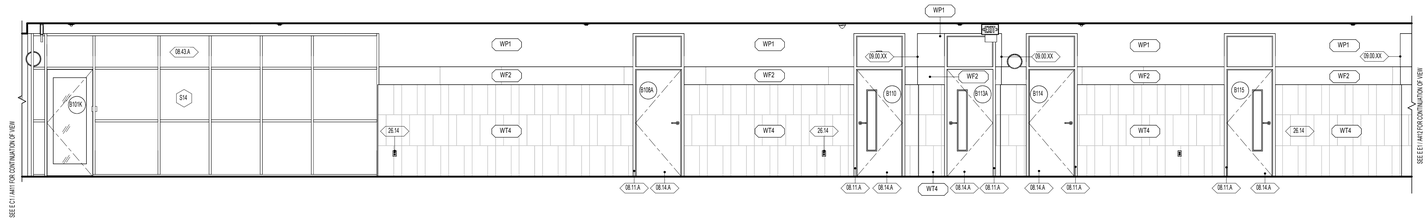
INTERIOR ELEVATIONS

A411



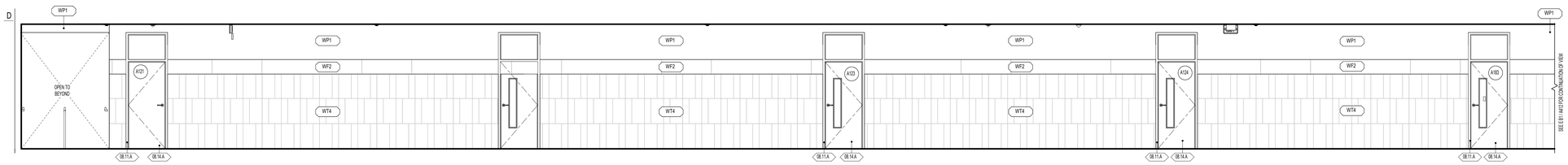
E1 / A412 **A143 - CORRIDOR A1 - WEST**
1/4" = 1'-0"

E



D1 / A412 **B142 - CORRIDOR B1 - WEST**
1/4" = 1'-0"

D

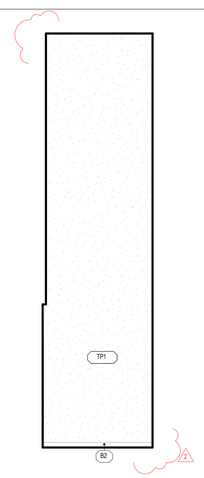


C1 / A412 **A143 - CORRIDOR A1 - EAST**
1/4" = 1'-0"

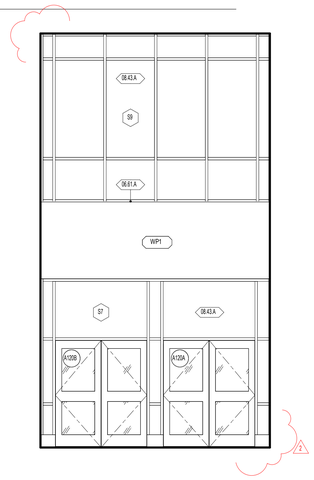
C

B1 / A412 **B143 - CORRIDOR B1 - WEST**
1/4" = 1'-0"

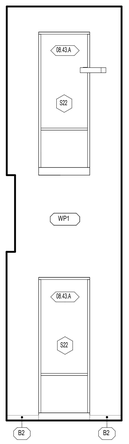
B



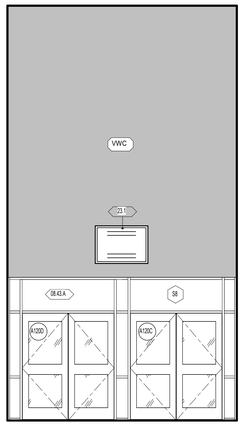
A3 / A412 **A120 - ENTRY A1 - SOUTH**
1/4" = 1'-0"



A4 / A412 **A120 - ENTRY A1 - WEST**
1/4" = 1'-0"



A5 / A412 **A120 - ENTRY A1 - NORTH**
1/4" = 1'-0"



A6 / A412 **A120 - ENTRY A1 - EAST**
1/4" = 1'-0"

A

1 2 3 4 5 6

GENERAL NOTES - ENLARGED REFERENCE PLANS

1. REFER TO SHEET A401 FOR TOILET ROOM ACCESSORY SCHEDULE AND MOUNTING HEIGHTS.
2. FINAL LOCATION OF ALL TOILET ROOM ACCESSORIES TO BE COORDINATED WITH ARCHITECT/OWNER PRIOR TO INSTALLATION.
3. ALIGN ALL BASE TRANSITIONS WITH FLOORING TRANSITIONS, AS SHOWN ON THE FINISH FLOOR PLANS
4. PAINT ALL EXPOSED DUCTWORK, PIPING, CONDUITS, SUPPORTS, STEEL STRUCTURE, DECK, ETC. SHOWN IN ELEVATIONS.
5. SEE ELECTRICAL SHEETS FOR LOCATIONS OF OUTLETS, SWITCHES, DATA, TELEPHONE, TELEVISION, INTERCOMS, CLOCKS, SPEAKERS, HORNS, STROBES, ETC.
6. PROVIDE A TRANSITION STRIP BETWEEN DIFFERING FLOOR COVERINGS, REFER TO SHEET A800 FOR TYPICAL TRANSITION DETAILS.
7. PROVIDE FILLERS AT ALL END LOCATIONS WHERE LOCKERS OR MILLWORK DO NOT FILL THE WHOLE EXTEND OF THE SPACE SHOWN.
8. ALL ARCHITECTURAL CASEWORK NUMBERS NOTED ARE PER WI STANDARDS.

WALL TYPE
WP1 — WALL TYPE MARK, REFER TO WALL TYPES ON SHEETS A500.
FIRE RATING INDICATOR
ACOUSTICAL INDICATOR

DIVISION
00.00.XX — KEYNOTE MARKER
SECTION SEQUENCE
SECTION

DOOR TYPE
A151A — DOOR TYPE MARK, REFER TO DOOR SCHEDULE.
SHEET LOCATION

WINDOW TYPE
W1 — WINDOW TYPE MARK, REFER TO WINDOW SCHEDULE.
SHEET LOCATION

WALL FINISH

WP1	09 9123 PURE WHITE FINISH ON GYPSUM BOARD
WP2	09 9123 PURE WHITE EPOXY FINISH ON GYPSUM - CUSTODIAL, KITCHEN OFFICE, STORAGE
WP3	09 9123 PURE WHITE EPOXY FINISH ON CMU AND CONC. - CUSTODIAL, STORAGE, IDF, MECH, MDF
WP4	09 9123 BLACK SEMI-GLOSS FINISH ON CMU AND CONC. - STAGE
WP5	09 9123 EPOXY SEMI-GLOSS FINISH ON STEEL
WT1	09 3000 GLAZED CERAMIC TILE - REFER TO DETAIL XXA101 FOR TILE PATTERN
WT2	09 3000 GLAZED CERAMIC TILE - REFER TO DETAIL XXA101 FOR TILE PATTERN
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WF1	09 8413 FELT PANEL FINISH
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1. INTERIOR SURFACES ONLY. FOR EXTERIOR USE WATER REPELLANT BY SECTION 07 1900
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BASE FINISH

B1	09 6813 4" CARPET BASE, CLASSROOMS, ADMIN, MEDIA CENTER
B2	09 6519 4" COVE RUBBER BASE, MULTI-PURPOSE, STAGE
B3	09 3000 6" GLAZED CERAMIC TILE, KITCHEN

1. INSTALL SEALANT BETWEEN BASE AND FLOOR TILE AS TCNA APPLICATIONS REQUIRE, SECTION 09 3000
2. METAL TRIM AT TOP OF BASE WHERE NO TILE BASE OCCURS BY SPEC SECTION 09 3000

NWL-LEGEND - KEYNOTE

KEY VALUE	NOTE
06.61.A	06 6116 - SOLID SURFACE WINDOW SILL
08.11.A	08 1113 - HOLLOW METAL DOOR OR WINDOW FRAME, REFER TO SCHEDULES AND DETAILS
08.14.A	08 1416 - FLUSH WOOD DOORS, REFER TO SCHEDULES AND DETAILS
08.43.A	08 4313 - ALUMINUM FRAMED STOREFRONT AND DOOR, REFER TO OPENING ELEVATIONS AND DETAILS.
09.00.XX	WALL FINISHES TO WRAP WHERE WALL JOG OCCURS, REFER TO FLOOR PLAN FOR MORE INFORMATION.
22.00.D	22 0000 - DRINKING FOUNTAIN, REFER TO PLUMBING DRAWINGS
23.1	23 0000 - MECHANICAL EQUIPMENT/DUCT, REFER TO MECHANICAL PLANS
26.14	26 0000 - OUTLET, REFER TO ELECTRICAL DRAWINGS
28.6	28 0000 - SECURITY CREDENTIALS PANEL, REFER TO ELECTRICAL PLANS & SPECIFICATIONS

naylor wentworth lund
architects

CACHE COUNTY
SCHOOL DISTRICT

HYDE PARK ELEMENTARY SCHOOL
333 EAST 300 NORTH
HYDE PARK CITY, UT
84318

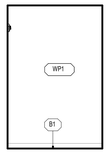
DRAWING ISSUE	BID SET
ISSUE DATE	03/25/2025
NWL PROJECT	0118.002

STATE OF UTAH
NAYLOR WENTWORTH LUND ARCHITECTS
#319164
#183992
#7247356
LICENSED ARCHITECT

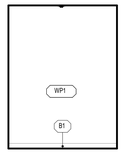
	DATE	REVISION
2	4/8/2025	ADDENDUM 3

INTERIOR ELEVATIONS

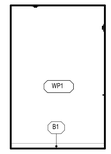
A412



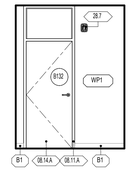
E1 / A413 B132 - TIMEOUT ROOM - NORTH
1/4" = 1'-0"



E2 / A413 B132 - TIMEOUT ROOM - EAST
1/4" = 1'-0"

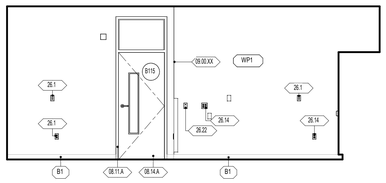


E3 / A413 B132 - TIMEOUT ROOM - SOUTH
1/4" = 1'-0"

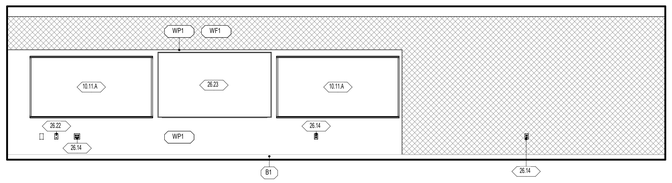


E4 / A413 B132 - TIMEOUT ROOM -WEST
1/4" = 1'-0"

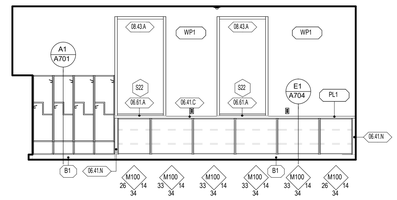
E



D1 / A413 B115 - CLASSROOM GRADE 3 - b
1/4" = 1'-0"

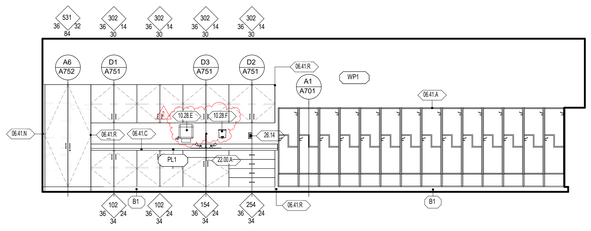


D3 / A413 B115 - CLASSROOM GRADE 3 - NORTH
1/4" = 1'-0"

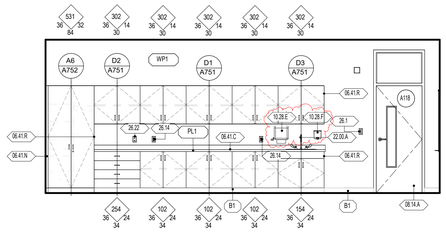


D4 / A413 B115 - CLASSROOM GRADE 3 - WEST
1/4" = 1'-0"

D

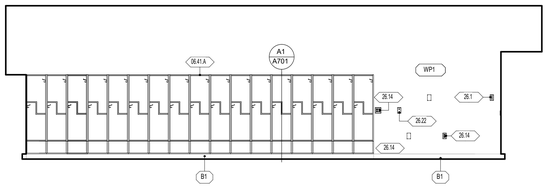


C1 / A413 B115 - CLASSROOM GRADE 3 - SOUTH
1/4" = 1'-0"

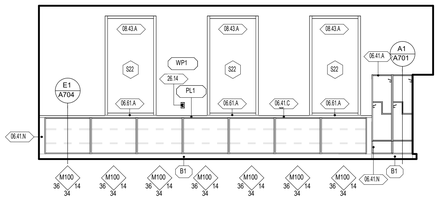


C3 / A413 A118 - CLASSROOM GRADE 4 - EAST
1/4" = 1'-0"

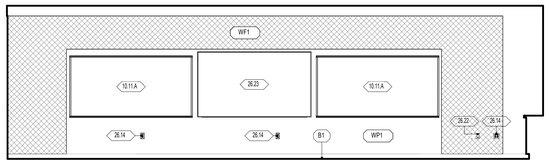
C



B1 / A413 A118 - CLASSROOM GRADE 4 - NORTH
1/4" = 1'-0"

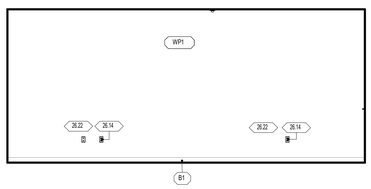


B3 / A413 A118 - CLASSROOM GRADE 4 - WEST
1/4" = 1'-0"

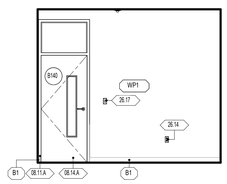


B5 / A413 A118 - CLASSROOM GRADE 4 - SOUTH
1/4" = 1'-0"

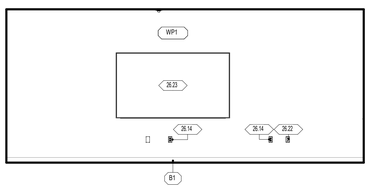
B



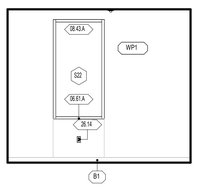
A1 / A413 B140 - SPL OFFICE - NORTH
1/4" = 1'-0"



A2 / A413 B140 - SPL OFFICE - EAST
1/4" = 1'-0"



A3 / A413 B140 - SPL OFFICE - SOUTH
1/4" = 1'-0"



A4 / A413 B140 - SPL OFFICE - WEST
1/4" = 1'-0"

A

1 2 3 4 5 6

GENERAL NOTES - ENLARGED REFERENCE PLANS

1. REFER TO SHEET A401 FOR TOILET ROOM ACCESSORY SCHEDULE AND MOUNTING HEIGHTS.
2. FINAL LOCATION OF ALL TOILET ROOM ACCESSORIES TO BE COORDINATED WITH ARCHITECT/OWNER PRIOR TO INSTALLATION.
3. ALIGN ALL BASE TRANSITIONS WITH FLOORING TRANSITIONS, AS SHOWN ON THE FINISH FLOOR PLANS
4. PAINT ALL EXPOSED DUCTWORK, PIPING, CONDUITS, SUPPORTS, STEEL STRUCTURE, DECK, ETC. SHOWN IN ELEVATIONS.
5. SEE ELECTRICAL SHEETS FOR LOCATIONS OF OUTLETS, SWITCHES, DATA, TELEPHONE, TELEVISION, INTERCOMS, CLOCKS, SPEAKERS, HORNS, STROBES, ETC.
6. PROVIDE A TRANSITION STRIP BETWEEN DIFFERING FLOOR COVERINGS, REFER TO SHEET A800 FOR TYPICAL TRANSITION DETAILS.
7. PROVIDE FILLERS AT ALL END LOCATIONS WHERE LOCKERS OR MILLWORK DO NOT FILL THE WHOLE EXTEND OF THE SPACE SHOWN.
8. ALL ARCHITECTURAL CASEWORK NUMBERS NOTED ARE PER WI STANDARDS.

WALL TYPE
WALL TYPE MARK, REFER TO WALL TYPES ON SHEETS A500.
FIRE RATING INDICATOR
ACOUSTICAL INDICATOR

DIVISION
00.00.XX KEYNOTE MARKER
SECTION SEQUENCE
SECTION

DOOR TYPE
A151A DOOR TYPE MARK, REFER TO DOOR SCHEDULE.
SHEET LOCATION

WINDOW TYPE
W1 WINDOW TYPE MARK, REFER TO WINDOW SCHEDULE.
SHEET LOCATION

WALL FINISH

WP1 09 9123 PURE WHITE FINISH ON GYPSUM BOARD
WP2 09 9123 PURE WHITE EPOXY FINISH ON GYPSUM - CUSTODIAL, KITCHEN OFFICE, STORAGE
WP3 09 9123 PURE WHITE EPOXY FINISH ON CMU AND CONC. - CUSTODIAL, STORAGE, IDF, MECH, MDF
WP4 09 9123 BLACK SEMI-GLOSS FINISH ON CMU AND CONC. - STAGE
WP5 09 9123 EPOXY SEMI-GLOSS FINISH ON STEEL
WT1 09 3000 GLAZED CERAMIC TILE - REFER TO DETAIL XXA101 FOR TILE PATTERN
WT2 09 3000 GLAZED CERAMIC TILE - REFER TO DETAIL XXA101 FOR TILE PATTERN
WT3 09 3000 GLAZED CERAMIC TILE - REFER TO DETAIL XXA101 FOR TILE PATTERN
WT4 09 3000 GLAZED CERAMIC TILE - REFER TO DETAIL XXA101 FOR TILE PATTERN
WT5 09 3000 GLAZED CERAMIC TILE - REFER TO DETAIL XXA101 FOR TILE PATTERN
WT6 09 3000 GLAZED CERAMIC TILE - REFER TO DETAIL XXA101 FOR TILE PATTERN
WF1 09 8413 FELT PANEL FINISH
WF2 09 8413 FELT PANEL FINISH
TP1 03 4713 SEALED TILT PANEL

1. INTERIOR SURFACES ONLY. FOR EXTERIOR USE WATER REPELLANT BY SECTION 07 1900
2. REFER TO SECTION 09 9123 TO CLEAN AND PRIME WALLS AS NECESSARY WHERE PLASTIC LAMINATES PLANELS OR VINYL WALL COVERING IS SCHEDULED TO OCCUR
3. SCHLUTER EDGE PROTECTION AT ALL EXPOSED EDGES, CORNERS, FLOOR, & TILE TRANSITIONS, AS PER SECTION 09 3000
4. COORDINATE PANEL JOINTS WITH ARCHITECT PRIOR TO INSTALLATION

BASE FINISH

B1 09 6813 4" CARPET BASE, CLASSROOMS, ADMIN, MEDIA CENTER
B2 09 6519 4" COVE RUBBER BASE, MULTI-PURPOSE, STAGE
B3 09 3000 6" GLAZED CERAMIC TILE, KITCHEN

1. INSTALL SEALANT BETWEEN BASE AND FLOOR TILE AS TCNA APPLICATIONS REQUIRE, SECTION 09 3000
2. METAL TRIM AT TOP OF BASE WHERE NO TILE BASE OCCURS BY SPEC SECTION 09 3000

NWL-LEGEND - KEYNOTE

KEY VALUE	NOTE
06.41.A	06 4100 - ARCHITECTURAL CASEWORK, REFER TO INTERIOR ELEVATIONS AND CASEWORK DETAILS
06.41.C	06 4100/ 06 6116 - PLASTIC LAMINATE OR SOLID SURFACE COUNTERTOP, AND BACKSPLASH WHERE OCCURS. REFER TO INTERIOR ELEVATIONS FOR MORE INFORMATION.
06.41.N	06 4100 - CASEWORK FILLER
06.41.R	06 4100 - FINISH END PANEL AT NONE WALL TERMINATING CASEWORK
06.61.A	06 6116 - SOLID SURFACE WINDOW SILL
08.11.A	08 1113 - HOLLOW METAL DOOR OR WINDOW FRAME. REFER TO SCHEDULES AND DETAILS
08.14.A	08 1416 - FLUSH WOOD DOORS. REFER TO SCHEDULES AND DETAILS
08.43.A	08 4313 - ALUMINUM FRAMED STOREFRONT AND DOOR. REFER TO OPENING ELEVATIONS AND DETAILS.
09.00.XX	WALL FINISHES TO WRAP WHERE WALL JOG OCCURS. REFER TO FLOOR PLAN FOR MORE INFORMATION.
10.11.A	10 1100 - MARKER BOARD PER SPECIFICATION
10.28.E	10 2800 - PAPER TOWEL DISPENSER, OWNER PROVIDED CONTRACTOR INSTALLED. PROVIDE SOLID BLOCKING IN WALL AS REQUIRED
10.28.F	10 2800 - SOAP DISPENSER, REFER TO SPECIFICATION
22.00.A	22 0000 - HAND WASH SINK. REFER TO PLUMBING DRAWINGS
26.1	26 0000 - LV BUTTON. REFER TO ELECTRICAL
26.14	26 0000 - OUTLET. REFER TO ELECTRICAL DRAWINGS
26.17	26 0000 - LIGHT CALL BOX. REFER TO ELECTRICAL DRAWINGS
26.22	26 0000 - DATA PORT. REFER TO ELECTRICAL DRAWINGS
26.23	26 0000 - DIGITAL DISPLAY BOARD. REFER TO ELECTRICAL DRAWINGS
28.7	28 0000 - FIRE ALARM AND SPEAKER PANEL. REFER TO ELECTRICAL PLANS & SPECIFICATIONS

naylor wentworth lund
a r c h i t e c t s

CACHE COUNTY SCHOOL DISTRICT

HYDE PARK ELEMENTARY SCHOOL
335 E-647 300 NORTH
HYDE PARK CITY, UT
84318

DRAWING ISSUE	BID SET
ISSUE DATE	02/25/2025
NWL PROJECT	0119.002

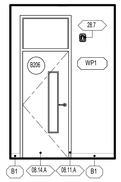
STATE OF UTAH
NAYLOR WENTWORTH LUND ARCHITECTS
#319164
#183992
#7247356
LICENSED ARCHITECT

	DATE	REVISION
2	4/8/2025	ADDENDUM 3

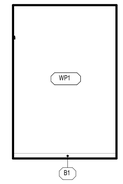
INTERIOR ELEVATIONS

A413

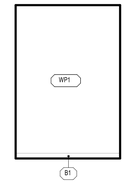
E1 / A415 **B206 - TIME OUT - NORTH**
1/4" = 1'-0"



E2a / A415 **B206 - TIME OUT - EAST**
1/4" = 1'-0"

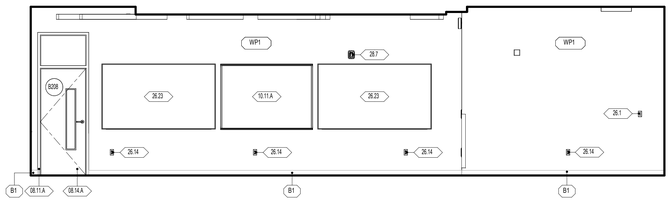


E2b / A415 **B206 - TIME OUT - SOUTH**
1/4" = 1'-0"

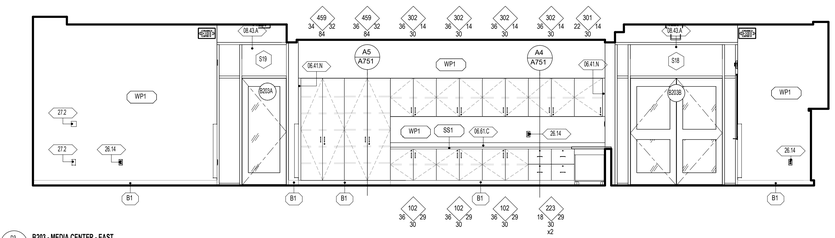


E2c / A415 **B206 - TIME OUT - WEST**
1/4" = 1'-0"

E

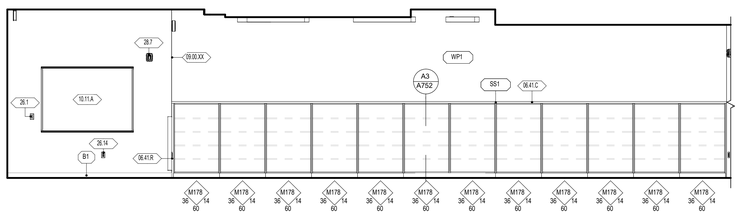


D1 / A415 **B203 - MEDIA CENTER - NORTH**
1/4" = 1'-0"



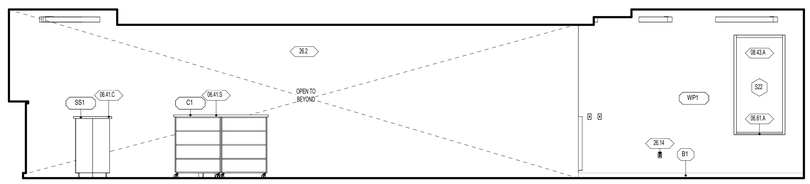
D3 / A415 **B203 - MEDIA CENTER - EAST**
1/4" = 1'-0"

D

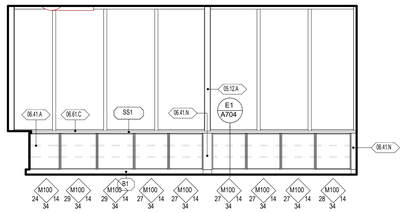


C1 / A415 **B203 - MEDIA CENTER - SOUTH**
1/4" = 1'-0"

C

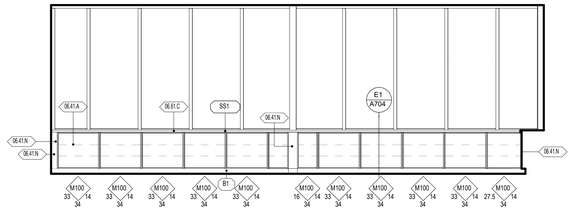


E3a / A415 **B203 - MEDIA CENTER - WEST**
1/4" = 1'-0"

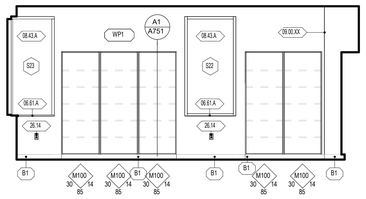


B1 / A415 **A203 - MEDIA CENTER -G**
1/4" = 1'-0"

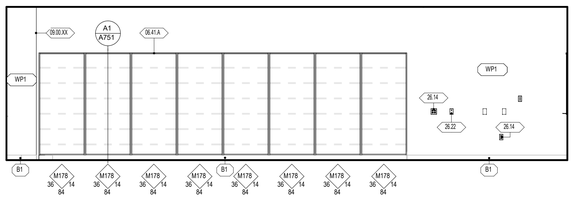
B



B2 / A415 **A203 - MEDIA CENTER - G**
1/4" = 1'-0"

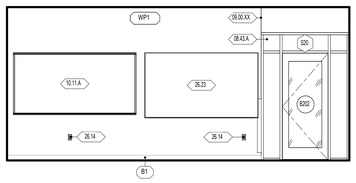


B4 / A415 **B202 - READING FACILITATOR - WEST**
1/4" = 1'-0"

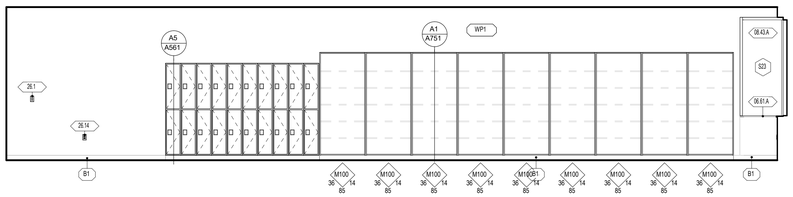


A1 / A415 **B202 - READING FACILITATOR - NORTH**
1/4" = 1'-0"

A



A3 / A415 **B202 - READING FACILITATOR - EAST**
1/4" = 1'-0"



A4 / A415 **B202 - READING FACILITATOR - SOUTH**
1/4" = 1'-0"

1 | 2 | 3 | 4 | 5 | 6

GENERAL NOTES - ENLARGED REFERENCE PLANS

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2. FINAL LOCATION OF ALL TOILET ROOM ACCESSORIES TO BE COORDINATED WITH ARCHITECT/OWNER PRIOR TO INSTALLATION.
3. ALIGN ALL BASE TRANSITIONS WITH FLOORING TRANSITIONS, AS SHOWN ON THE FINISH FLOOR PLANS
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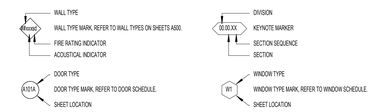
7. PROVIDE FILLERS AT ALL END LOCATIONS WHERE LOCKERS OR MILLWORK DO NOT FILL THE WHOLE EXTEND OF THE SPACE SHOWN.
8. ALL ARCHITECTURAL CASEWORK NUMBERS NOTED ARE PER WI STANDARDS.



WALL FINISH

WP1 09 9123 PURE WHITE FINISH ON GYPSUM BOARD
WP2 09 9123 PURE WHITE EPOXY FINISH ON GYPSUM - CUSTODIAL, KITCHEN OFFICE, STORAGE
WP3 09 9123 PURE WHITE EPOXY FINISH ON CMU AND CONC. - CUSTODIAL, STORAGE, IDF, MECH, MDF
WP4 09 9123 BLACK SEMI-GLOSS FINISH ON CMU AND CONC. - STAGE
WP5 09 9123 EPOXY SEMI-GLOSS FINISH ON STEEL
WT1 09 3000 GLAZED CERAMIC TILE - REFER TO DETAIL XXA101 FOR TILE PATTERN
WT2 09 3000 GLAZED CERAMIC TILE - REFER TO DETAIL XXA101 FOR TILE PATTERN
WT3 09 3000 GLAZED CERAMIC TILE - REFER TO DETAIL XXA101 FOR TILE PATTERN
WT4 09 3000 GLAZED CERAMIC TILE - REFER TO DETAIL XXA101 FOR TILE PATTERN
WT5 09 3000 GLAZED CERAMIC TILE - REFER TO DETAIL XXA101 FOR TILE PATTERN
WT6 09 3000 GLAZED CERAMIC TILE - REFER TO DETAIL XXA101 FOR TILE PATTERN
WF1 09 8413 FELT PANEL FINISH
WF2 09 8413 FELT PANEL FINISH
TP1 03 4713 SEALED TILT PANEL

1. INTERIOR SURFACES ONLY. FOR EXTERIOR USE WATER REPELLANT BY SECTION 07 1900
2. REFER TO SECTION 09 9123 TO CLEAN AND PRIME WALLS AS NECESSARY WHERE PLASTIC LAMINATES PLANELS OR VINYL WALL COVERING IS SCHEDULED TO OCCUR
3. SCHLUTER EDGE PROTECTION AT ALL EXPOSED EDGES, CORNERS, FLOOR, & TILE TRANSITIONS, AS PER SECTION 09 3000
4. COORDINATE PANEL JOINTS WITH ARCHITECT PRIOR TO INSTALLATION

BASE FINISH

B1 09 6813 4" CARPET BASE, CLASSROOMS, ADMIN, MEDIA CENTER
B2 09 6519 4" COVE RUBBER BASE, MULTI-PURPOSE, STAGE
B3 09 3000 6" GLAZED CERAMIC TILE, KITCHEN

1. INSTALL SEALANT BETWEEN BASE AND FLOOR TILE AS TCNA APPLICATIONS REQUIRE. SECTION 09 3000
2. METAL TRIM AT TOP OF BASE WHERE NO TILE BASE OCCURS BY SPEC SECTION 09 3000

NWL-LEGEND - KEYNOTE

KEY VALUE	NOTE
05.12.A	05 1200 - STEEL COLUMN. REFER TO STRUCTURAL DRAWINGS
06.41.A	06 4100 - ARCHITECTURAL CASEWORK, REFER TO INTERIOR ELEVATIONS AND CASEWORK DETAILS
06.41.C	06 4100/ 06 6116 - PLASTIC LAMINATE OR SOLID SURFACE COUNTERTOP, AND BACKSPLASH WHERE OCCURS. REFER TO INTERIOR ELEVATIONS FOR MORE INFORMATION.
06.41.N	06 4100 - CASEWORK FILLER
06.41.R	06 4100 - FINISH END PANEL AT NONE WALL TERMINATING CASEWORK
06.41.S	06 4100 - MOBILE BOOKSHELF CABINET
06.61.A	06 6116 - SOLID SURFACE WINDOW SILL
06.61.C	06 6116 - SOLID SURFACE COUNTERTOP, NO BACKSPLASH
08.11.A	08 1113 - HOLLOW METAL DOOR OR WINDOW FRAME. REFER TO SCHEDULES AND DETAILS
08.14.A	08 1416 - FLUSH WOOD DOORS. REFER TO SCHEDULES AND DETAILS
08.43.A	08 4313 - ALUMINUM FRAMED STOREFRONT AND DOOR. REFER TO OPENING ELEVATIONS AND DETAILS.
09.00.XX	WALL FINISHES TO WRAP WHERE WALL JOG OCCURS. REFER TO FLOOR PLAN FOR MORE INFORMATION.
10.11.A	10 1100 - MARKER BOARD PER SPECIFICATION
26.1	26 0000 - LV BUTTON. REFER TO ELECTRICAL
26.2	26 0000 - LIGHTING FIXTURE. REFER TO ELECTRICAL DRAWINGS
26.14	26 0000 - OUTLET. REFER TO ELECTRICAL DRAWINGS
26.22	26 0000 - DATA PORT. REFER TO ELECTRICAL DRAWINGS
26.23	26 0000 - DIGITAL DISPLAY BOARD. REFER TO ELECTRICAL DRAWINGS
27.2	27 0000 - COMMUNICATIONS WALL BOX. REFER TO ELECTRICAL PLANS
28.7	28 0000 - FIRE ALARM AND SPEAKER PANEL. REFER TO ELECTRICAL PLANS & SPECIFICATIONS

naylor wentworth lund
a r c h i t e c t s

CACHE COUNTY
SCHOOL DISTRICT

HYDE PARK ELEMENTARY SCHOOL
332 EAST 300 NORTH
HYDE PARK CITY, UT
84318

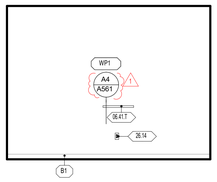
DRAWING ISSUE	BID SET
ISSUE DATE	03/25/2025
NWL PROJECT	0119.002

STATE OF UTAH
NAYLOR WENTWORTH LUND ARCHITECTS
#319164
#183992
#7247356
LICENSED ARCHITECT

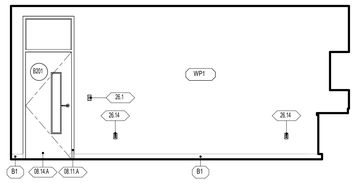
DATE	REVISION

INTERIOR ELEVATIONS

A415



E1 B201 - ADMIN WORKROOM - NORTH
A416 1/4" = 1'-0"



E2 B201 - ADMIN WORKROOM - EAST
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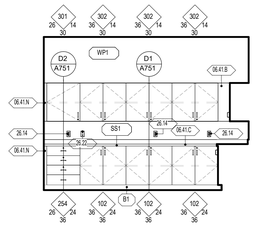
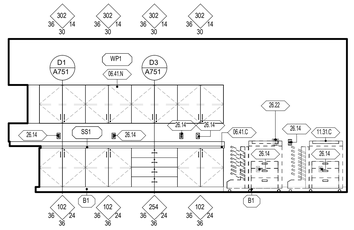
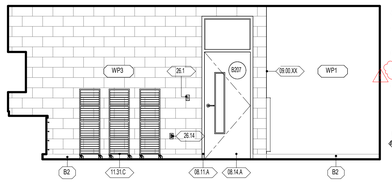


E3 B201 - ADMIN WORKROOM - SOUTH
A416 1/4" = 1'-0"

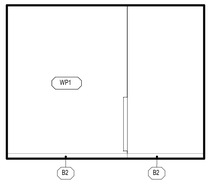


E4 B201 - ADMIN WORKROOM - WEST
A416 1/4" = 1'-0"

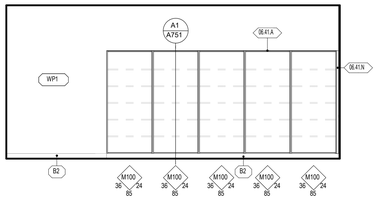


D2 B207 - ART STORAGE - NORTH
A416 1/4" = 1'-0"

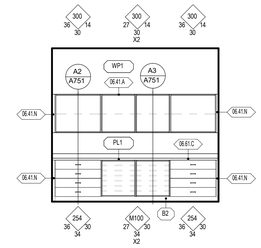
E



D3 B207 - ART STORAGE - EAST
A416 1/4" = 1'-0"



D4 B207 - ART STORAGE - SOUTH
A416 1/4" = 1'-0"



D5 B207 - ART STORAGE - WEST
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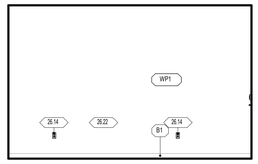

C1 B205 - ESL - NORTH
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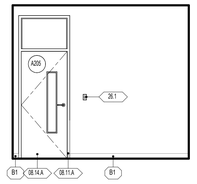
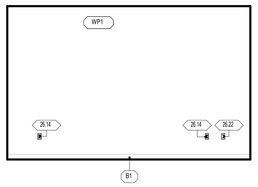


C2 B205 - ESL - EAST
A416 1/4" = 1'-0"



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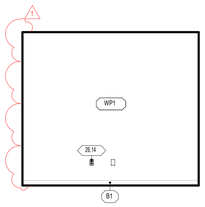
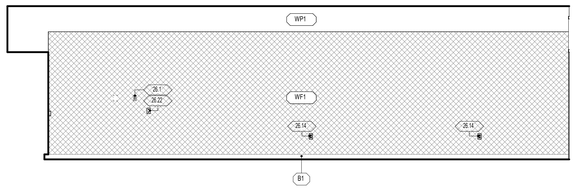
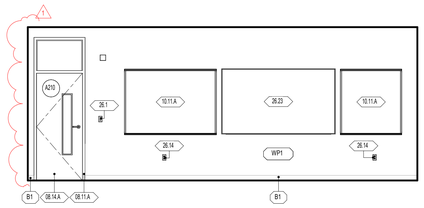


C4 B205 - ESL - WEST
A416 1/4" = 1'-0"

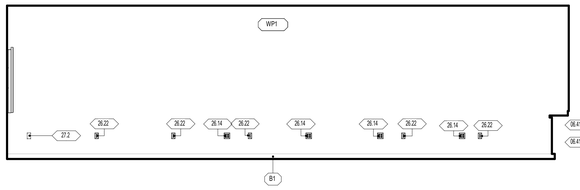
C



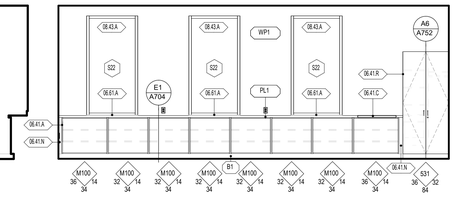
B1 A210 - COMPUTER LAB - NORTH
A416 1/4" = 1'-0"



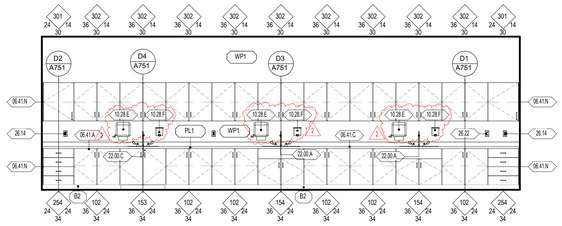
B3 A210 - COMPUTER LAB - EAST
A416 1/4" = 1'-0"



B4 A210 - COMPUTER LAB - SOUTH
A416 1/4" = 1'-0"

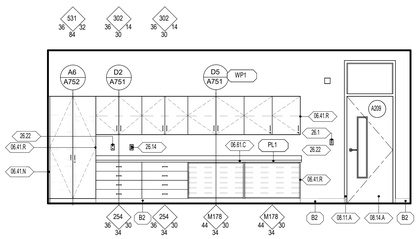


B6 A210 - COMPUTER LAB - WEST
A416 1/4" = 1'-0"

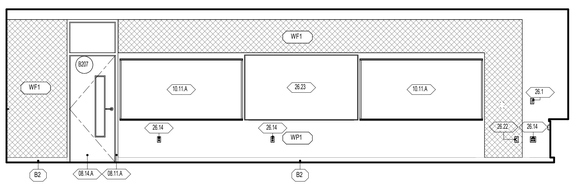


A1 A209 - ART CLASSROOM - NORTH
A416 1/4" = 1'-0"

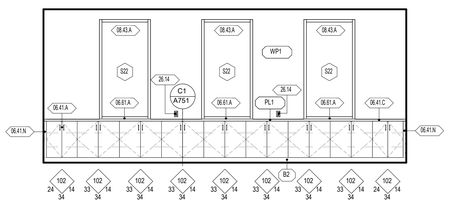
B



A3 A209 - ART CLASSROOM - EAST
A416 1/4" = 1'-0"



A4 A209 - ART CLASSROOM - SOUTH
A416 1/4" = 1'-0"



A6 A209 - ART CLASSROOM - WEST
A416 1/4" = 1'-0"

1 2 3 4 5 6

GENERAL NOTES - ENLARGED REFERENCE PLANS

1. REFER TO SHEET A401 FOR TOILET ROOM ACCESSORY SCHEDULE AND MOUNTING HEIGHTS.
2. FINAL LOCATION OF ALL TOILET ROOM ACCESSORIES TO BE COORDINATED WITH ARCHITECT/OWNER PRIOR TO INSTALLATION.
3. ALIGN ALL BASE TRANSITIONS WITH FLOORING TRANSITIONS, AS SHOWN ON THE FINISH FLOOR PLANS
4. PAINT ALL EXPOSED DUCTWORK, PIPING, CONDUITS, SUPPORTS, STEEL STRUCTURE, DECK, ETC. SHOWN IN ELEVATIONS.
5. SEE ELECTRICAL SHEETS FOR LOCATIONS OF OUTLETS, SWITCHES, DATA, TELEPHONE, TELEVISION, INTERCOMS, CLOCKS, SPEAKERS, HORNS, STROBES, ETC.
6. PROVIDE A TRANSITION STRIP BETWEEN DIFFERING FLOOR COVERINGS, REFER TO SHEET A800 FOR TYPICAL TRANSITION DETAILS.
7. PROVIDE FILLERS AT ALL END LOCATIONS WHERE LOCKERS OR MILLWORK DO NOT FILL THE WHOLE EXTEND OF THE SPACE SHOWN.
8. ALL ARCHITECTURAL CASEWORK NUMBERS NOTED ARE PER WI STANDARDS.

WALL TYPE
WALL TYPE MARK, REFER TO WALL TYPES ON SHEETS A500.
FIRE RATING INDICATOR
ACOUSTICAL INDICATOR

DIVISION
KEYNOTE MARKER
SECTION SEQUENCE
SECTION

DOOR TYPE
DOOR TYPE MARK, REFER TO DOOR SCHEDULE.
SHEET LOCATION

WINDOW TYPE
WINDOW TYPE MARK, REFER TO WINDOW SCHEDULE.
SHEET LOCATION

WALL FINISH

WP1 09 9123 PURE WHITE FINISH ON GYPSUM BOARD
WP2 09 9123 PURE WHITE EPOXY FINISH ON GYPSUM - CUSTODIAL, KITCHEN OFFICE, STORAGE
WP3 09 9123 PURE WHITE EPOXY FINISH ON CMU AND CONC. - CUSTODIAL, STORAGE, IDF, MECH, MDF
WP4 09 9123 BLACK SEMI-GLOSS FINISH ON CMU AND CONC. - STAGE
WP5 09 9123 EPOXY SEMI-GLOSS FINISH ON STEEL
WT1 09 3000 GLAZED CERAMIC TILE - REFER TO DETAIL XXA101 FOR TILE PATTERN
WT2 09 3000 GLAZED CERAMIC TILE - REFER TO DETAIL XXA101 FOR TILE PATTERN
WT3 09 3000 GLAZED CERAMIC TILE - REFER TO DETAIL XXA101 FOR TILE PATTERN
WT4 09 3000 GLAZED CERAMIC TILE - REFER TO DETAIL XXA101 FOR TILE PATTERN
WT5 09 3000 GLAZED CERAMIC TILE - REFER TO DETAIL XXA101 FOR TILE PATTERN
WT6 09 3000 GLAZED CERAMIC TILE - REFER TO DETAIL XXA101 FOR TILE PATTERN
WF1 09 8413 FELT PANEL FINISH
WF2 09 8413 FELT PANEL FINISH
TP1 03 4713 SEALED TILT PANEL

1. INTERIOR SURFACES ONLY. FOR EXTERIOR USE WATER REPELLANT BY SECTION 07 1900
2. REFER TO SECTION 09 9123 TO CLEAN AND PRIME WALLS AS NECESSARY WHERE PLASTIC LAMINATES PLANELS OR VINYL WALL COVERING IS SCHEDULED TO OCCUR
3. SCHLUTER EDGE PROTECTION AT ALL EXPOSED EDGES, CORNERS, FLOOR, & TILE TRANSITIONS, AS PER SECTION 09 3000
4. COORDINATE PANEL JOINTS WITH ARCHITECT PRIOR TO INSTALLATION

BASE FINISH

B1 09 6813 4" CARPET BASE, CLASSROOMS, ADMIN, MEDIA CENTER
B2 09 6519 4" COVE RUBBER BASE, MULTI-PURPOSE, STAGE
B3 09 3000 6" GLAZED CERAMIC TILE, KITCHEN

1. INSTALL SEALANT BETWEEN BASE AND FLOOR TILE AS TCNA APPLICATIONS REQUIRE. SECTION 09 3000
2. METAL TRIM AT TOP OF BASE WHERE NO TILE BASE OCCURS BY SPEC SECTION 09 3000

NWL-LEGEND - KEYNOTE

KEY VALUE	NOTE
06.41.A	06 4100 - ARCHITECTURAL CASEWORK, REFER TO INTERIOR ELEVATIONS AND CASEWORK DETAILS
06.41.B	06 4100 - EPOXY RESIN COUNTERTOPS CHEMICAL RESISTANT
06.41.C	06 4100/ 06 6116 - PLASTIC LAMINATE OR SOLID SURFACE COUNTERTOP, AND BACKSPLASH WHERE OCCURS. REFER TO INTERIOR ELEVATIONS FOR MORE INFORMATION.
06.41.N	06 4100 - CASEWORK FILLER
06.41.R	06 4100 - FINISH END PANEL AT NONE WALL TERMINATING CASEWORK
06.41.T	06 4100 - SIGN IN PLASTIC LAMINATE SHELF
06.61.A	06 6116 - SOLID SURFACE WINDOW SILL
06.61.C	06 6116 - SOLID SURFACE COUNTERTOP, NO BACKSPLASH
08.11.A	08 1113 - HOLLOW METAL DOOR OR WINDOW FRAME, REFER TO SCHEDULES AND DETAILS
08.14.A	08 1416 - FLUSH WOOD DOORS, REFER TO SCHEDULES AND DETAILS
08.43.A	08 4313 - ALUMINUM FRAMED STOREFRONT AND DOOR, REFER TO OPENING ELEVATIONS AND DETAILS.
09.00.XX	WALL FINISHES TO WRAP WHERE WALL JOG OCCURS. REFER TO FLOOR PLAN FOR MORE INFORMATION.
10.11.A	10 1100 - MARKER BOARD PER SPECIFICATION
10.28.E	10 2800 - PAPER TOWEL DISPENSER, OWNER PROVIDED CONTRACTOR INSTALLED. PROVIDE SOLID BLOCKING IN WALL AS REQUIRED
10.28.F	10 2800 - SOAP DISPENSER, REFER TO SPECIFICATION
11.31.C	11 3100 - OWNER FURNISHED OWNER INSTALLED EQUIPMENT
22.00.A	22 0000 - HAND WASH SINK, REFER TO PLUMBING DRAWINGS
22.00.C	22 0000 - ADA HAND WASH SINK, REFER TO PLUMBING DRAWINGS
26.1	26 0000 - LV BUTTON, REFER TO ELECTRICAL
26.14	26 0000 - OUTLET, REFER TO ELECTRICAL DRAWINGS
26.22	26 0000 - DATA PORT, REFER TO ELECTRICAL DRAWINGS
26.23	26 0000 - DIGITAL DISPLAY BOARD, REFER TO ELECTRICAL DRAWINGS
27.2	27 0000 - COMMUNICATIONS WALL BOX, REFER TO ELECTRICAL PLANS

naylor wentworth lund
architects

CACHE COUNTY
SCHOOL DISTRICT

HYDE PARK ELEMENTARY SCHOOL
335 EAST 200 NORTH
HYDE PARK CITY, UT
84318

DRAWING ISSUE	BID SET
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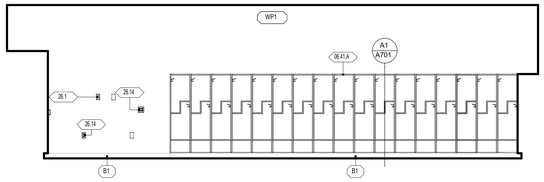
NWL PROJECT	0119.002

STATE OF UTAH
NAYLOR WENTWORTH LUND ARCHITECTS
#319164
#183992
#7247356
LICENSED ARCHITECT

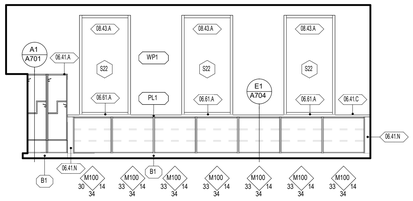
△	DATE	REVISION
1	04/01/2025	ADDENDUM 2
2	4/8/2025	ADDENDUM 3

INTERIOR ELEVATIONS

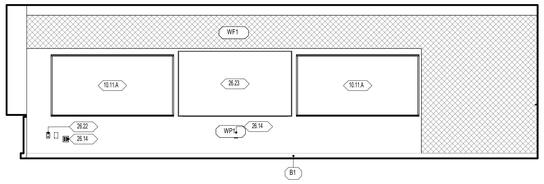
A416



D1 A417 — A214 - CLASSROOM GRADE 1 - NORTH
1/4" = 1'-0"

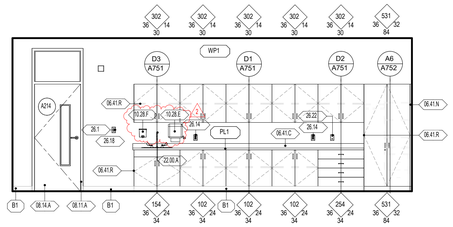


D3 A417 — A214 - CLASSROOM GRADE 1 - EAST
1/4" = 1'-0"

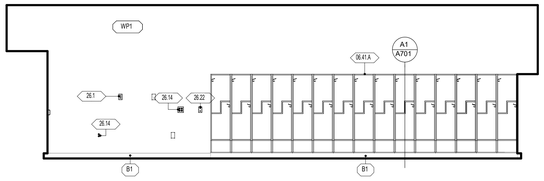


D4 A417 — A214 - CLASSROOM GRADE 1 - SOUTH
1/4" = 1'-0"

E



D6 A417 — A214 - CLASSROOM GRADE 1 - WEST
1/4" = 1'-0"



C1 A417 — A213 - CLASSROOM GRADE 2 - NORTH
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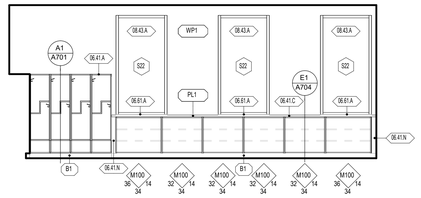
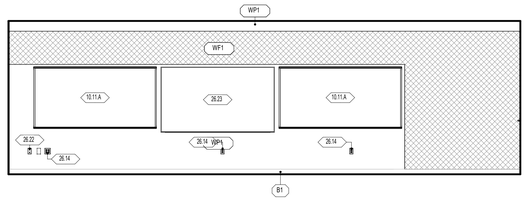
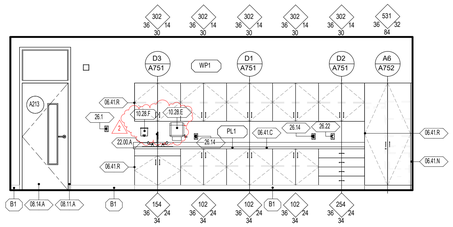


C3 A417 — A213 - CLASSROOM GRADE 2 - EAST
1/4" = 1'-0"

D



C4 A417 — A213 - CLASSROOM GRADE 2 - SOUTH
1/4" = 1'-0"



C6 A417 — A213 - CLASSROOM GRADE 2 - WEST
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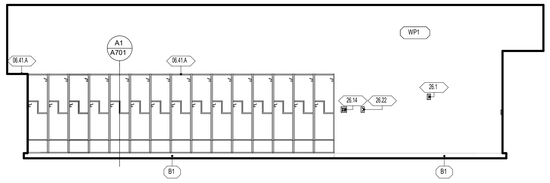

B1 A417 — A212 - CLASSROOM GRADE 2 - NORTH
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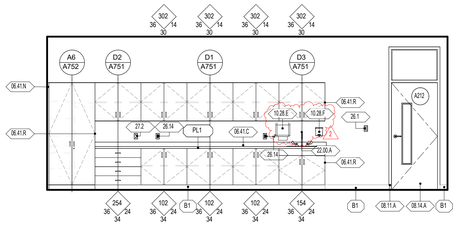
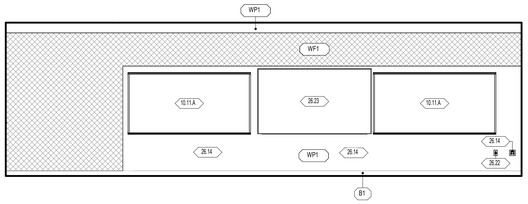
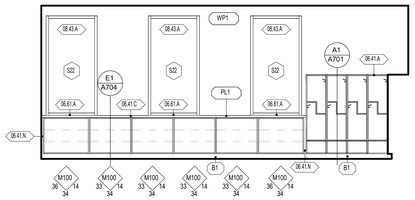


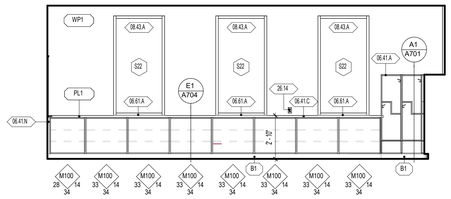
B3 A417 — A212 - CLASSROOM GRADE 2 - EAST
1/4" = 1'-0"



B4 A417 — A212 - CLASSROOM GRADE 2 - SOUTH
1/4" = 1'-0"

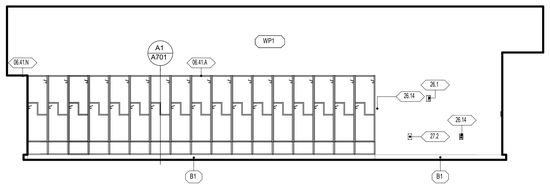


B6 A417 — A212 - CLASSROOM GRADE 2 - WEST
1/4" = 1'-0"

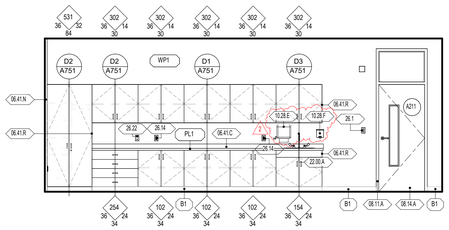


A6 A417 — A211 - CLASSROOM GRADE 2 - WEST
1/4" = 1'-0"

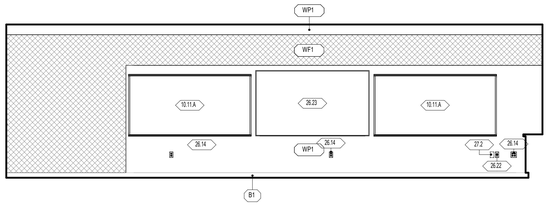
B



A1 A417 — A211 - CLASSROOM GRADE 2 - NORTH
1/4" = 1'-0"



A3 A417 — A211 - CLASSROOM GRADE 2 - EAST
1/4" = 1'-0"



A4 A417 — A211 - CLASSROOM GRADE 2 - SOUTH
1/4" = 1'-0"

A

1 2 3 4 5 6

GENERAL NOTES - ENLARGED REFERENCE PLANS

1. REFER TO SHEET A401 FOR TOILET ROOM ACCESSORY SCHEDULE AND MOUNTING HEIGHTS.
2. FINAL LOCATION OF ALL TOILET ROOM ACCESSORIES TO BE COORDINATED WITH ARCHITECT/OWNER PRIOR TO INSTALLATION.
3. ALIGN ALL BASE TRANSITIONS WITH FLOORING TRANSITIONS, AS SHOWN ON THE FINISH FLOOR PLANS
4. PAINT ALL EXPOSED DUCTWORK, PIPING, CONDUITS, SUPPORTS, STEEL STRUCTURE, DECK, ETC. SHOWN IN ELEVATIONS.
5. SEE ELECTRICAL SHEETS FOR LOCATIONS OF OUTLETS, SWITCHES, DATA, TELEPHONE, TELEVISION, INTERCOMS, CLOCKS, SPEAKERS, HORNS, STROBES, ETC.
6. PROVIDE A TRANSITION STRIP BETWEEN DIFFERING FLOOR COVERINGS, REFER TO SHEET A800 FOR TYPICAL TRANSITION DETAILS.
7. PROVIDE FILLERS AT ALL END LOCATIONS WHERE LOCKERS OR MILLWORK DO NOT FILL THE WHOLE EXTEND OF THE SPACE SHOWN.
8. ALL ARCHITECTURAL CASEWORK NUMBERS NOTED ARE PER WI STANDARDS.

WALL TYPE
WALL TYPE MARK, REFER TO WALL TYPES ON SHEETS A500.
FIRE RATING INDICATOR
ACOUSTICAL INDICATOR

DIVISION
KEYNOTE MARKER
SECTION SEQUENCE
SECTION

DOOR TYPE
DOOR TYPE MARK, REFER TO DOOR SCHEDULE.
SHEET LOCATION

WINDOW TYPE
WINDOW TYPE MARK, REFER TO WINDOW SCHEDULE.
SHEET LOCATION

WALL FINISH

WP1 09 9123 PURE WHITE FINISH ON GYPSUM BOARD
WP2 09 9123 PURE WHITE EPOXY FINISH ON GYPSUM - CUSTODIAL, KITCHEN OFFICE, STORAGE
WP3 09 9123 PURE WHITE EPOXY FINISH ON CMU AND CONC. - CUSTODIAL, STORAGE, IDF, MECH, MDF
WP4 09 9123 BLACK SEMI-GLOSS FINISH ON CMU AND CONC. - STAGE
WP5 09 9123 EPOXY SEMI-GLOSS FINISH ON STEEL
WT1 09 3000 GLAZED CERAMIC TILE - REFER TO DETAIL XXA101 FOR TILE PATTERN
WT2 09 3000 GLAZED CERAMIC TILE - REFER TO DETAIL XXA101 FOR TILE PATTERN
WT3 09 3000 GLAZED CERAMIC TILE - REFER TO DETAIL XXA101 FOR TILE PATTERN
WT4 09 3000 GLAZED CERAMIC TILE - REFER TO DETAIL XXA101 FOR TILE PATTERN
WT5 09 3000 GLAZED CERAMIC TILE - REFER TO DETAIL XXA101 FOR TILE PATTERN
WT6 09 3000 GLAZED CERAMIC TILE - REFER TO DETAIL XXA101 FOR TILE PATTERN
WF1 09 8413 FELT PANEL FINISH
WF2 09 8413 FELT PANEL FINISH
TP1 03 4713 SEALED TILT PANEL

1. INTERIOR SURFACES ONLY. FOR EXTERIOR USE WATER REPELLANT BY SECTION 07 1900
2. REFER TO SECTION 09 9123 TO CLEAN AND PRIME WALLS AS NECESSARY WHERE PLASTIC LAMINATES PLANELS OR VINYL WALL COVERING IS SCHEDULED TO OCCUR
3. SCHLUTER EDGE PROTECTION AT ALL EXPOSED EDGES, CORNERS, FLOOR, & TILE TRANSITIONS, AS PER SECTION 09 3000
4. COORDINATE PANEL JOINTS WITH ARCHITECT PRIOR TO INSTALLATION

BASE FINISH

B1 09 6813 4" CARPET BASE, CLASSROOMS, ADMIN, MEDIA CENTER
B2 09 6519 4" COVE RUBBER BASE, MULTI-PURPOSE, STAGE
B3 09 3000 6" GLAZED CERAMIC TILE, KITCHEN

1. INSTALL SEALANT BETWEEN BASE AND FLOOR TILE AS TCNA APPLICATIONS REQUIRE. SECTION 09 3000
2. METAL TRIM AT TOP OF BASE WHERE NO TILE BASE OCCURS BY SPEC SECTION 09 3000

NWL-LEGEND - KEYNOTE

KEY VALUE	NOTE
06.41.A	06 4100 - ARCHITECTURAL CASEWORK, REFER TO INTERIOR ELEVATIONS AND CASEWORK DETAILS
06.41.C	06 4100/ 06 6116 - PLASTIC LAMINATE OR SOLID SURFACE COUNTERTOP, AND BACKSPLASH WHERE OCCURS. REFER TO INTERIOR ELEVATIONS FOR MORE INFORMATION.
06.41.N	06 4100 - CASEWORK FILLER
06.41.R	06 4100 - FINISH END PANEL AT NONE WALL TERMINATING CASEWORK
06.61.A	06 6116 - SOLID SURFACE WINDOW SILL
08.11.A	08 1113 - HOLLOW METAL DOOR OR WINDOW FRAME. REFER TO SCHEDULES AND DETAILS
08.14.A	08 1416 - FLUSH WOOD DOORS. REFER TO SCHEDULES AND DETAILS
08.43.A	08 4313 - ALUMINUM FRAMED STOREFRONT AND DOOR. REFER TO OPENING ELEVATIONS AND DETAILS.
10.11.A	10 1100 - MARKER BOARD PER SPECIFICATION
10.28.E	10 2800 - PAPER TOWEL DISPENSER, OWNER PROVIDED CONTRACTOR INSTALLED. PROVIDE SOLID BLOCKING IN WALL AS REQUIRED
10.28.F	10 2800 - SOAP DISPENSER, REFER TO SPECIFICATION.
22.00.A	22 0000 - HAND WASH SINK, REFER TO PLUMBING DRAWINGS
26.1	26 0000 - LV BUTTON. REFER TO ELECTRICAL
26.14	26 0000 - OUTLET. REFER TO ELECTRICAL DRAWINGS
26.18	26 0000 - INTERCOM STATION. REFER TO ELECTRICAL
26.22	26 0000 - DATA PORT, REFER TO ELECTRICAL DRAWINGS
26.23	26 0000 - DIGITAL DISPLAY BOARD, REFER TO ELECTRICAL DRAWINGS
27.2	27 0000 - COMMUNICATIONS WALL BOX, REFER TO ELECTRICAL PLANS

naylor wentworth lund
a r c h i t e c t s

CACHE COUNTY
SCHOOL DISTRICT

HYDE PARK ELEMENTARY SCHOOL
335 EAST 300 NORTH
HYDE PARK CITY, UT
84318

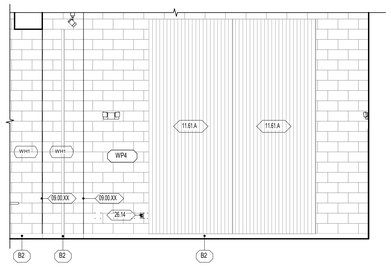
DRAWING ISSUE	BID SET
ISSUE DATE	02/25/2025
NWL PROJECT	0119.002

STATE OF UTAH
NAYLOR WENTWORTH LUND ARCHITECTS
#319164
#183992
#7247356
LICENSED ARCHITECT

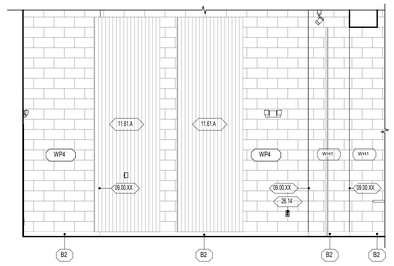
	DATE	REVISION
2	4/8/2025	ADDENDUM 3

INTERIOR ELEVATIONS

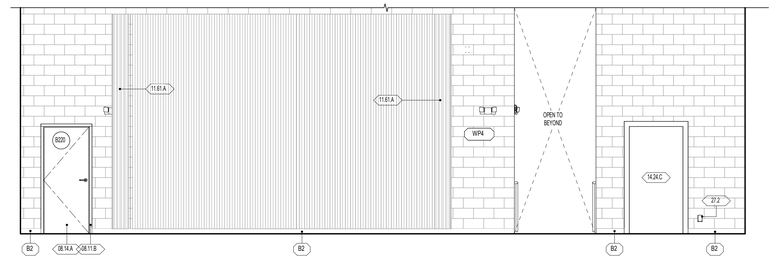
A417



E1 / A418 B219 - STAGE PLATFORM - SOUTH
1/4" = 1'-0"

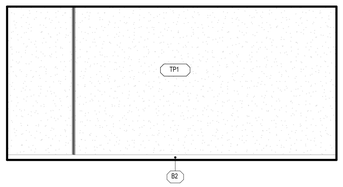


E2 / A418 B219 - STAGE PLATFORM - NORTH
1/4" = 1'-0"

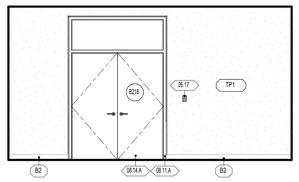


E4 / A418 B219 - STAGE PLATFORM - WEST
1/4" = 1'-0"

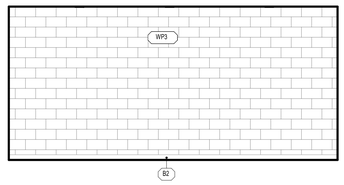
E



D1 / A418 A218 - MULTIPURPOSE STORAGE - NORTH
1/4" = 1'-0"

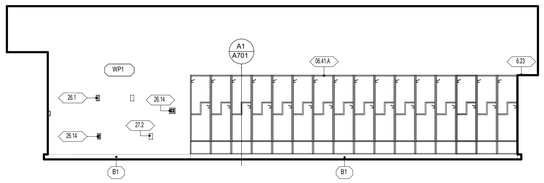


D2 / A418 A218 - MULTIPURPOSE STORAGE - EAST
1/4" = 1'-0"



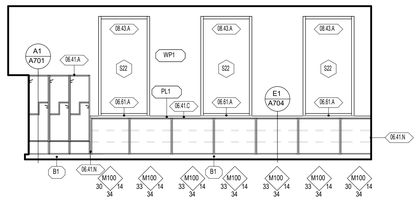
D3 / A418 A218 - MULTIPURPOSE STORAGE - SOUTH
1/4" = 1'-0"

D

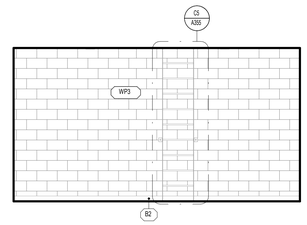


C1 / A418 A216 - CLASSROOM GRADE 1 - NORTH
1/4" = 1'-0"

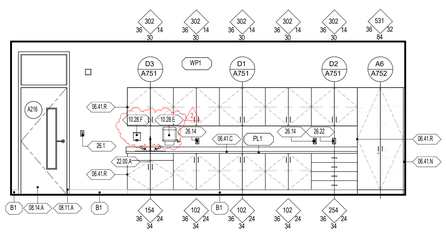
C



C3 / A418 A216 - CLASSROOM GRADE 1 - EAST
1/4" = 1'-0"

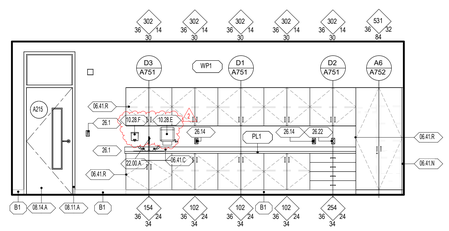


D4 / A418 A218 - MULTIPURPOSE STORAGE - WEST
1/4" = 1'-0"

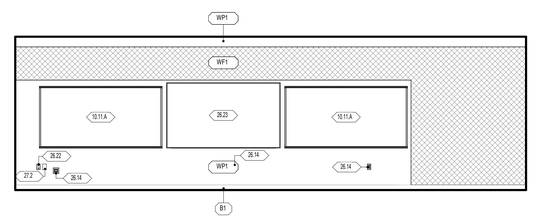


B1 / A418 A216 - CLASSROOM GRADE 1 - WEST
1/4" = 1'-0"

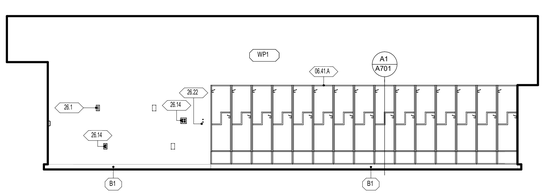
B



B2 / A418 A215 - CLASSROOM GRADE 1 - WEST
1/4" = 1'-0"

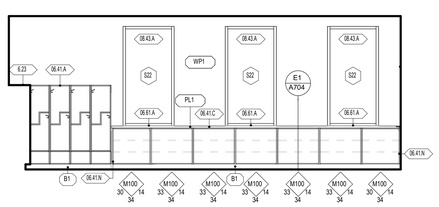


C4 / A418 A216 - CLASSROOM GRADE 1 - SOUTH
1/4" = 1'-0"

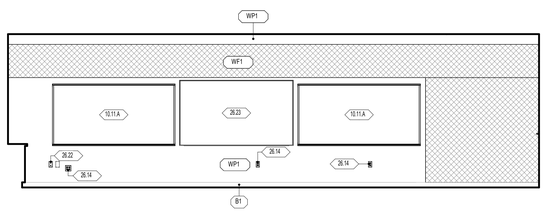


A1 / A418 A215 - CLASSROOM GRADE 1 - NORTH
1/4" = 1'-0"

A



A3 / A418 A215 - CLASSROOM GRADE 1 - EAST
1/4" = 1'-0"



A4 / A418 A215 - CLASSROOM GRADE 1 - SOUTH
1/4" = 1'-0"

1 2 3 4 5 6

GENERAL NOTES - ENLARGED REFERENCE PLANS

1. REFER TO SHEET A401 FOR TOILET ROOM ACCESSORY SCHEDULE AND MOUNTING HEIGHTS.
2. FINAL LOCATION OF ALL TOILET ROOM ACCESSORIES TO BE COORDINATED WITH ARCHITECT/OWNER PRIOR TO INSTALLATION.
3. ALIGN ALL BASE TRANSITIONS WITH FLOORING TRANSITIONS, AS SHOWN ON THE FINISH FLOOR PLANS
4. PAINT ALL EXPOSED DUCTWORK, PIPING, CONDUITS, SUPPORTS, STEEL STRUCTURE, DECK, ETC. SHOWN IN ELEVATIONS.
5. SEE ELECTRICAL SHEETS FOR LOCATIONS OF OUTLETS, SWITCHES, DATA, TELEPHONE, TELEVISION, INTERCOMS, CLOCKS, SPEAKERS, HORNS, STROBES, ETC.
6. PROVIDE A TRANSITION STRIP BETWEEN DIFFERING FLOOR COVERINGS, REFER TO SHEET A800 FOR TYPICAL TRANSITION DETAILS.
7. PROVIDE FILLERS AT ALL END LOCATIONS WHERE LOCKERS OR MILLWORK DO NOT FILL THE WHOLE EXTEND OF THE SPACE SHOWN.
8. ALL ARCHITECTURAL CASEWORK NUMBERS NOTED ARE PER WI STANDARDS.

WALL TYPE
WP1 — WALL TYPE MARK, REFER TO WALL TYPES ON SHEETS A500.
1 — FIRE RATING INDICATOR
A — ACOUSTICAL INDICATOR

DIVISION
00.00.XX — KEYNOTE MARKER
SECTION SEQUENCE
SECTION

DOOR TYPE
A151A — DOOR TYPE MARK, REFER TO DOOR SCHEDULE.
SHEET LOCATION

WINDOW TYPE
W1 — WINDOW TYPE MARK, REFER TO WINDOW SCHEDULE.
SHEET LOCATION

WALL FINISH

WP1 09 9123 PURE WHITE FINISH ON GYPSUM BOARD
WP2 09 9123 PURE WHITE EPOXY FINISH ON GYPSUM - CUSTODIAL, KITCHEN OFFICE, STORAGE
WP3 09 9123 PURE WHITE EPOXY FINISH ON CMU AND CONC. - CUSTODIAL, STORAGE, IDF, MECH, MDF
WP4 09 9123 BLACK SEMI-GLOSS FINISH ON CMU AND CONC. - STAGE
WP5 09 9123 EPOXY SEMI-GLOSS FINISH ON STEEL
WT1 09 3000 GLAZED CERAMIC TILE - REFER TO DETAIL XXA101 FOR TILE PATTERN
WT2 09 3000 GLAZED CERAMIC TILE - REFER TO DETAIL XXA101 FOR TILE PATTERN
WT3 09 3000 GLAZED CERAMIC TILE - REFER TO DETAIL XXA101 FOR TILE PATTERN
WT4 09 3000 GLAZED CERAMIC TILE - REFER TO DETAIL XXA101 FOR TILE PATTERN
WT5 09 3000 GLAZED CERAMIC TILE - REFER TO DETAIL XXA101 FOR TILE PATTERN
WT6 09 3000 GLAZED CERAMIC TILE - REFER TO DETAIL XXA101 FOR TILE PATTERN
WF1 09 8413 FELT PANEL FINISH
WF2 09 8413 FELT PANEL FINISH
TP1 03 4713 SEALED TILT PANEL

1. INTERIOR SURFACES ONLY. FOR EXTERIOR USE WATER REPELLANT BY SECTION 07 1900
2. REFER TO SECTION 09 9123 TO CLEAN AND PRIME WALLS AS NECESSARY WHERE PLASTIC LAMINATES PLANELS OR VINYL WALL COVERING IS SCHEDULED TO OCCUR
3. SCHLUTER EDGE PROTECTION AT ALL EXPOSED EDGES, CORNERS, FLOOR, & TILE TRANSITIONS, AS PER SECTION 09 3000
4. COORDINATE PANEL JOINTS WITH ARCHITECT PRIOR TO INSTALLATION

BASE FINISH

B1 09 6813 4" CARPET BASE, CLASSROOMS, ADMIN, MEDIA CENTER
B2 09 6519 4" COVE RUBBER BASE, MULTI-PURPOSE, STAGE
B3 09 3000 6" GLAZED CERAMIC TILE, KITCHEN

1. INSTALL SEALANT BETWEEN BASE AND FLOOR TILE AS TCNA APPLICATIONS REQUIRE. SECTION 09 3000
2. METAL TRIM AT TOP OF BASE WHERE NO TILE BASE OCCURS BY SPEC SECTION 09 3000

NWL-LEGEND - KEYNOTE

KEY VALUE	NOTE
6.23	
06.41.A	06 4100 - ARCHITECTURAL CASEWORK, REFER TO INTERIOR ELEVATIONS AND CASEWORK DETAILS
06.41.C	06 4100/ 06 6116 - PLASTIC LAMINATE OR SOLID SURFACE COUNTERTOP, AND BACKSPLASH WHERE OCCURS. REFER TO INTERIOR ELEVATIONS FOR MORE INFORMATION.
06.41.N	06 4100 - CASEWORK FILLER
06.41.R	06 4100 - FINISH END PANEL AT NONE WALL TERMINATING CASEWORK
06.61.A	06 6116 - SOLID SURFACE WINDOW SILL
08.11.A	08 1113 - HOLLOW METAL DOOR OR WINDOW FRAME, REFER TO SCHEDULES AND DETAILS
08.11.B	08 1113 - HOLLOW METAL DOOR, REFER TO SCHEDULES AND DETAILS
08.14.A	08 1416 - FLUSH WOOD DOORS, REFER TO SCHEDULES AND DETAILS
08.43.A	08 4313 - ALUMINUM FRAMED STOREFRONT AND DOOR, REFER TO OPENING ELEVATIONS AND DETAILS.
09.00.XX	WALL FINISHES TO WRAP WHERE WALL JOG OCCURS. REFER TO FLOOR PLAN FOR MORE INFORMATION.
10.11.A	10 1100 - MARKER BOARD PER SPECIFICATION
10.28.E	10 2800 - PAPER TOWEL DISPENSER, OWNER PROVIDED CONTRACTOR INSTALLED. PROVIDE SOLID BLOCKING IN WALL AS REQUIRED
10.28.F	10 2800 - SOAP DISPENSER, REFER TO SPECIFICATION
11.61.A	11 6143 - PLATFORM RIGGING AND CURTAINS, REFER TO SPECIFICATION
14.24.C	14 2400 - ELEVATOR DOOR FRAME, PROVIDED BY ELEVATOR MANUFACTURER
22.00.A	22 0000 - HAND WASH SINK, REFER TO PLUMBING DRAWINGS
26.1	26 0000 - LV BUTTON, REFER TO ELECTRICAL
26.14	26 0000 - OUTLET, REFER TO ELECTRICAL DRAWINGS
26.17	26 0000 - LIGHT CALL BOX, REFER TO ELECTRICAL DRAWINGS
26.22	26 0000 - DATA PORT, REFER TO ELECTRICAL DRAWINGS
26.23	26 0000 - DIGITAL DISPLAY BOARD, REFER TO ELECTRICAL DRAWINGS
27.2	27 0000 - COMMUNICATIONS WALL BOX, REFER TO ELECTRICAL PLANS

naylor wentworth lund
architects

CACHE COUNTY
SCHOOL DISTRICT

HYDE PARK ELEMENTARY SCHOOL
333 EAST 300 NORTH
HYDE PARK CITY, UT
84318

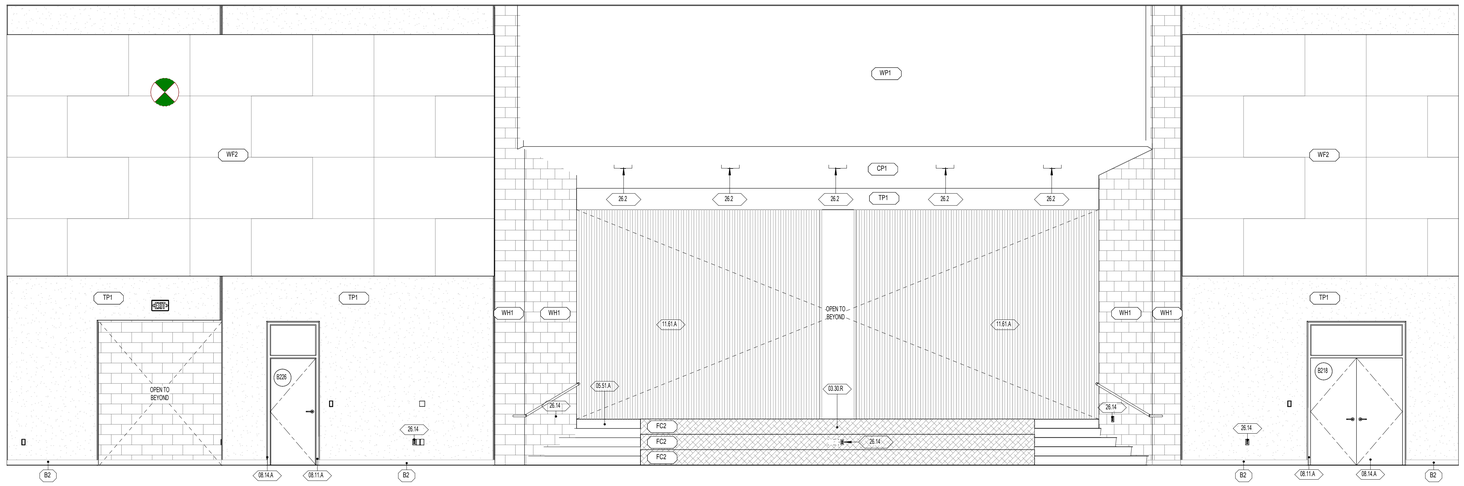
DRAWING ISSUE	BID SET
ISSUE DATE	03/25/2025
NWL PROJECT	0119.002

STATE OF UTAH
NAYLOR WENTWORTH LUND ARCHITECTS
#319164
#183992
#7247356
LICENSED ARCHITECT

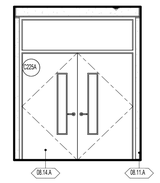
△	DATE	REVISION
2	4/8/2025	ADDENDUM 3

INTERIOR ELEVATIONS

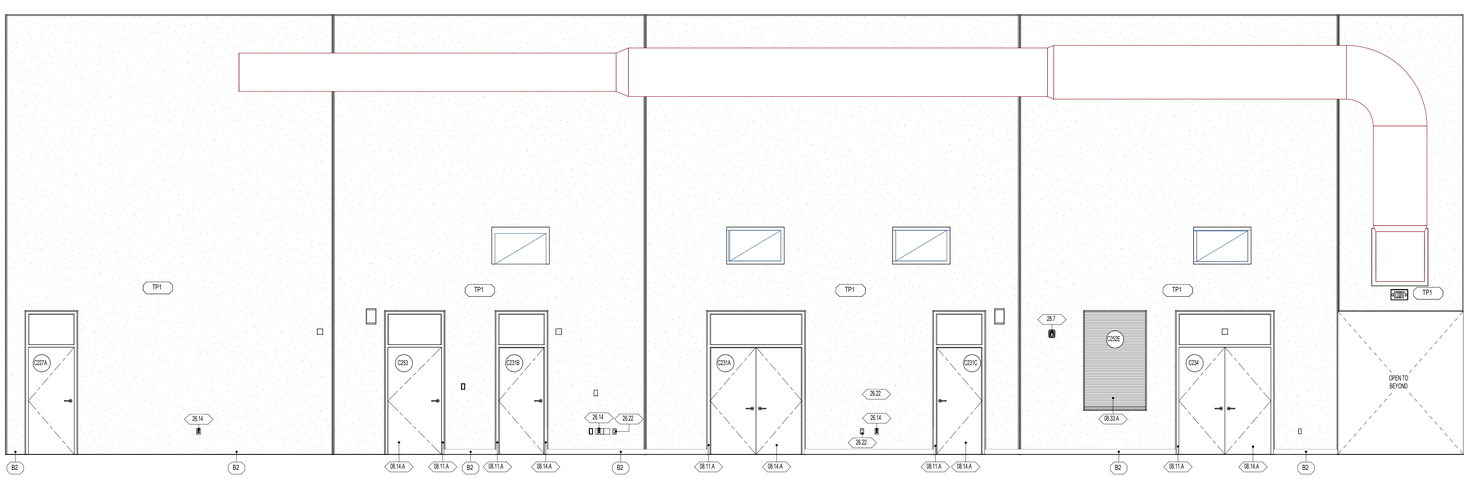
A418



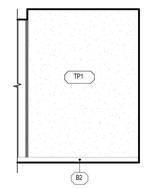
D1 A420 C225 - MULTIPURPOSE ROOM - WEST
1/4" = 1'-0"



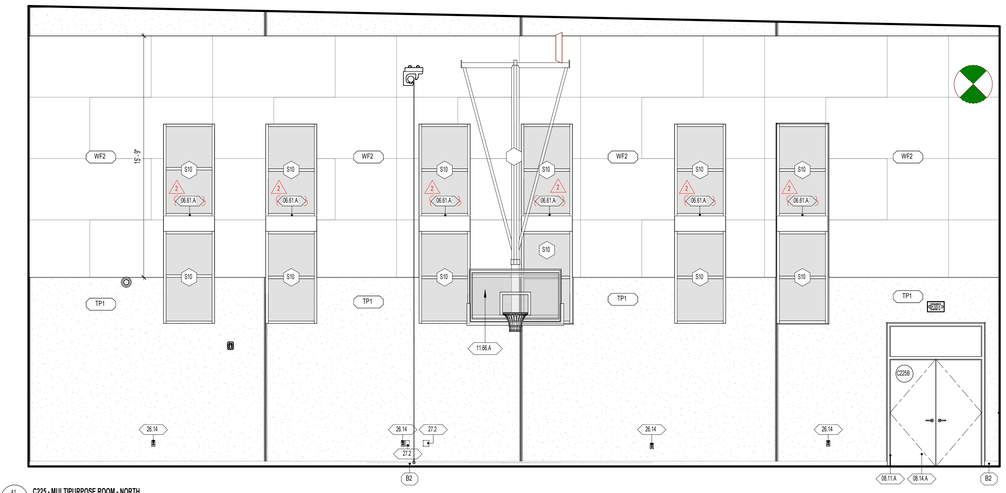
C3 A420 C225 - MULITPURPOSE - EAST
1/4" = 1'-0"



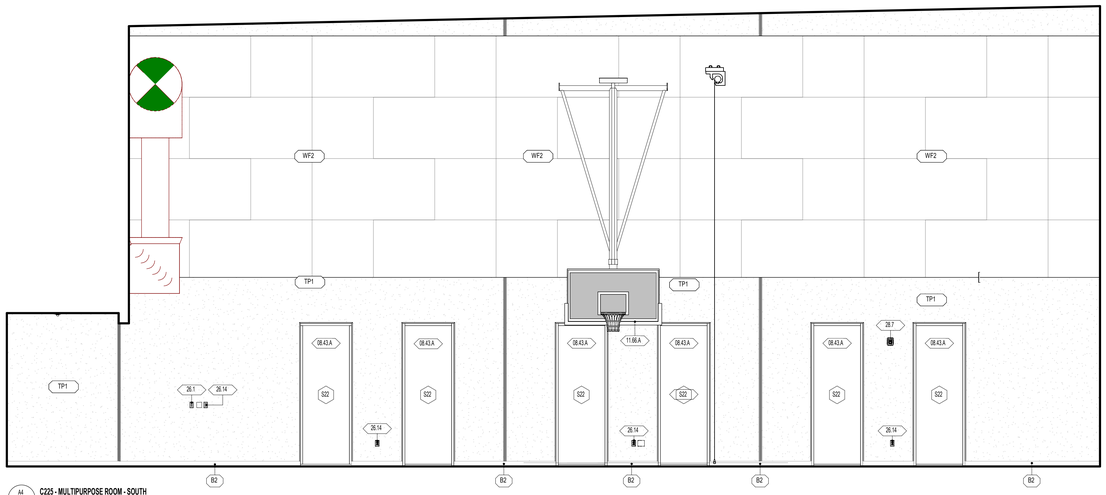
B1 A420 C225 - MULTIPURPOSE ROOM - EAST
1/4" = 1'-0"



C6 A420 C225 - MULITPURPOSE - NORTH
1/4" = 1'-0"



A1 A420 C225 - MULTIPURPOSE ROOM - NORTH
1/4" = 1'-0"



A4 A420 C225 - MULTIPURPOSE ROOM - SOUTH
1/4" = 1'-0"

GENERAL NOTES - ENLARGED REFERENCE PLANS

1. REFER TO SHEET A401 FOR TOILET ROOM ACCESSORY SCHEDULE AND MOUNTING HEIGHTS.
2. FINAL LOCATION OF ALL TOILET ROOM ACCESSORIES TO BE COORDINATED WITH ARCHITECT/OWNER PRIOR TO INSTALLATION.
3. ALIGN ALL BASE TRANSITIONS WITH FLOORING TRANSITIONS, AS SHOWN ON THE FINISH FLOOR PLANS
4. PAINT ALL EXPOSED DUCTWORK, PIPING, CONDUITS, SUPPORTS, STEEL STRUCTURE, DECK, ETC. SHOWN IN ELEVATIONS.
5. SEE ELECTRICAL SHEETS FOR LOCATIONS OF OUTLETS, SWITCHES, DATA, TELEPHONE, TELEVISION, INTERCOMS, CLOCKS, SPEAKERS, HORNS, STROBES, ETC.
6. PROVIDE A TRANSITION STRIP BETWEEN DIFFERING FLOOR COVERINGS, REFER TO SHEET A800 FOR TYPICAL TRANSITION DETAILS.
7. PROVIDE FILLERS AT ALL END LOCATIONS WHERE LOCKERS OR MILLWORK DO NOT FILL THE WHOLE EXTEND OF THE SPACE SHOWN.
8. ALL ARCHITECTURAL CASEWORK NUMBERS NOTED ARE PER WI STANDARDS.

WALL TYPE
WALL TYPE MARK, REFER TO WALL TYPES ON SHEETS A500.
FIRE RATING INDICATOR
ACOUSTICAL INDICATOR

DIVISION
00.00.XX KEYNOTE MARKER
SECTION SEQUENCE
SECTION

DOOR TYPE
A101A DOOR TYPE MARK, REFER TO DOOR SCHEDULE.
SHEET LOCATION

WINDOW TYPE
W1 WINDOW TYPE MARK, REFER TO WINDOW SCHEDULE.
SHEET LOCATION

WALL FINISH

WP1 09 9123 PURE WHITE FINISH ON GYPSUM BOARD
WP2 09 9123 PURE WHITE EPOXY FINISH ON GYPSUM - CUSTODIAL, KITCHEN OFFICE, STORAGE
WP3 09 9123 PURE WHITE EPOXY FINISH ON CMU AND CONC. - CUSTODIAL, STORAGE, IDF, MECH, MDF
WP4 09 9123 BLACK SEMI-GLOSS FINISH ON CMU AND CONC. - STAGE
WP5 09 9123 EPOXY SEMI-GLOSS FINISH ON STEEL
WT1 09 3000 GLAZED CERAMIC TILE - REFER TO DETAIL XXA101 FOR TILE PATTERN
WT2 09 3000 GLAZED CERAMIC TILE - REFER TO DETAIL XXA101 FOR TILE PATTERN
WT3 09 3000 GLAZED CERAMIC TILE - REFER TO DETAIL XXA101 FOR TILE PATTERN
WT4 09 3000 GLAZED CERAMIC TILE - REFER TO DETAIL XXA101 FOR TILE PATTERN
WT5 09 3000 GLAZED CERAMIC TILE - REFER TO DETAIL XXA101 FOR TILE PATTERN
WT6 09 3000 GLAZED CERAMIC TILE - REFER TO DETAIL XXA101 FOR TILE PATTERN
WF1 09 8413 FELT PANEL FINISH
WF2 09 8413 FELT PANEL FINISH
TP1 03 4713 SEALED TILT PANEL

1. INTERIOR SURFACES ONLY. FOR EXTERIOR USE WATER REPELLANT BY SECTION 07 1900
2. REFER TO SECTION 09 9123 TO CLEAN AND PRIME WALLS AS NECESSARY WHERE PLASTIC LAMINATES PLANELS OR VINYL WALL COVERING IS SCHEDULED TO OCCUR
3. SCHLUTER EDGE PROTECTION AT ALL EXPOSED EDGES, CORNERS, FLOOR, & TILE TRANSITIONS, AS PER SECTION 09 3000
4. COORDINATE PANEL JOINTS WITH ARCHITECT PRIOR TO INSTALLATION

BASE FINISH

B1 09 6813 4" CARPET BASE, CLASSROOMS, ADMIN, MEDIA CENTER
B2 09 6519 4" COVE RUBBER BASE, MULTI-PURPOSE, STAGE
B3 09 3000 6" GLAZED CERAMIC TILE, KITCHEN

1. INSTALL SEALANT BETWEEN BASE AND FLOOR TILE AS TCNA APPLICATIONS REQUIRE. SECTION 09 3000
2. METAL TRIM AT TOP OF BASE WHERE NO TILE BASE OCCURS BY SPEC SECTION 09 3000

NWL-LEGEND - KEYNOTE

KEY VALUE	NOTE
03.30.R	03 3000 - REINFORCED CONCRETE STAIR OVER GEOFOAM. REFER TO STRUCTURAL DRAWINGS
05.51.A	
06.61.A	06 6116 - SOLID SURFACE WINDOW SILL
08.11.A	08 1113 - HOLLOW METAL DOOR OR WINDOW FRAME. REFER TO SCHEDULES AND DETAILS
08.14.A	08 1416 - FLUSH WOOD DOORS. REFER TO SCHEDULES AND DETAILS
08.33.A	08 3323 - OVERHEAD COILING DOOR. REFER TO SCHEDULE AND DETAILS
08.43.A	08 4313 - ALUMINUM FRAMED STOREFRONT AND DOOR. REFER TO OPENING ELEVATIONS AND DETAILS.
11.61.A	11 6143 - PLATFORM RIGGING AND CURTAINS. REFER TO SPECIFICATION
11.66.A	11 6623 - MOTORIZED BASKETBALL BACKSTOP. REFER TO SPECIFICATION
26.1	26 0000 - LV BUTTON. REFER TO ELECTRICAL
26.2	26 0000 - LIGHTING FIXTURE. REFER TO ELECTRICAL DRAWINGS
26.14	26 0000 - OUTLET. REFER TO ELECTRICAL DRAWINGS
26.22	26 0000 - DATA PORT. REFER TO ELECTRICAL DRAWINGS
27.2	27 0000 - COMMUNICATIONS WALL BOX. REFER TO ELECTRICAL PLANS
28.7	28 0000 - FIRE ALARM AND SPEAKER PANEL. REFER TO ELECTRICAL PLANS & SPECIFICATIONS

naylor wentworth lund
architects

CACHE COUNTY
SCHOOL DISTRICT

HYDE PARK ELEMENTARY SCHOOL
335 EAST 300 NORTH
HYDE PARK CITY, UT
84318

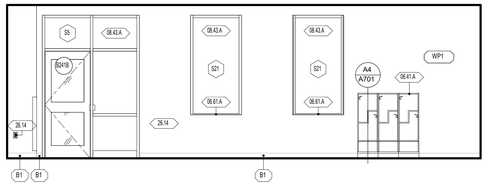
BID SET 02/25/2025
DRAWING ISSUE
ISSUE DATE 01/15/202
NWL PROJECT

STATE OF UTAH
NAYLOR WENTWORTH LUND ARCHITECTS
#319164
#183992
#7247356
LICENSED ARCHITECT

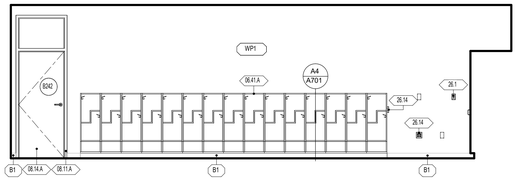
	DATE	REVISION
2	4/8/2025	ADDENDUM 3

INTERIOR ELEVATIONS

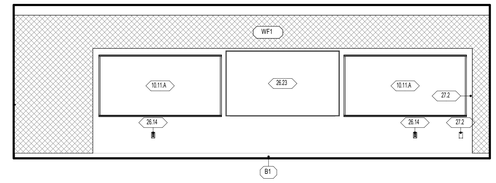
A420



E1 A422 **A241 - CLASSROOM PRESCHOOL - SOUTH**
1/4" = 1'-0"

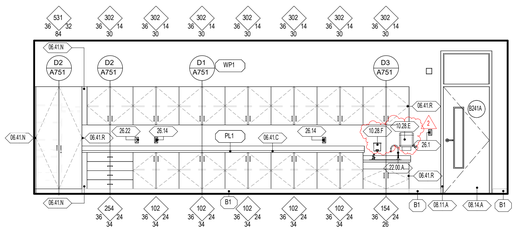


E3 A422 **A241 - CLASSROOM PRESCHOOL - WEST**
1/4" = 1'-0"

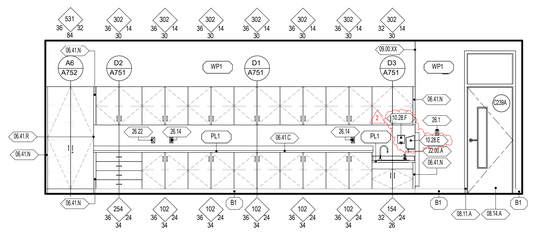


E4 A422 **A241 - CLASSROOM PRESCHOOL - EAST**
1/4" = 1'-0"

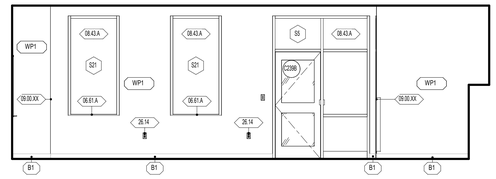
E



D1 A422 **A241 - CLASSROOM PRESCHOOL - NORTH**
1/4" = 1'-0"

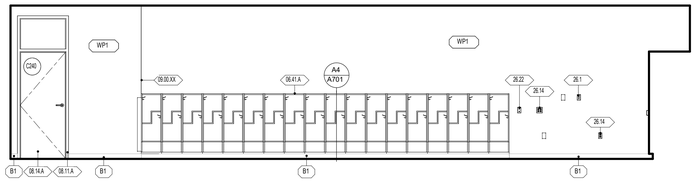


D3 A422 **C239 - CLASSROOM KINDERGARTEN - NORTH**
1/4" = 1'-0"

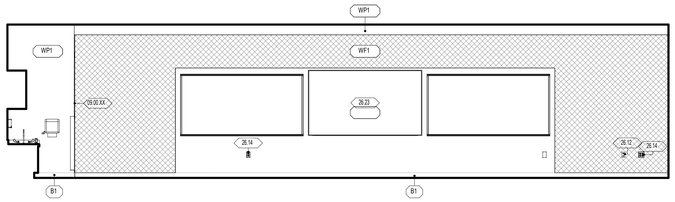


D4 A422 **C239 - CLASSROOM KINDERGARTEN - SOUTH**
1/4" = 1'-0"

D

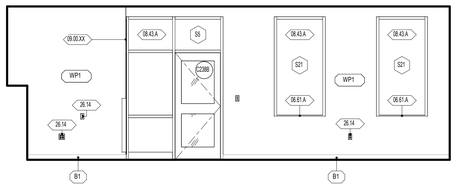


C1 A422 **C239 - CLASSROOM KINDERGARTEN - WEST**
1/4" = 1'-0"

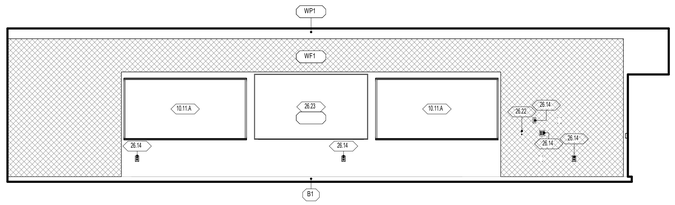


C3 A422 **C239 - CLASSROOM KINDERGARTEN - EAST**
1/4" = 1'-0"

C

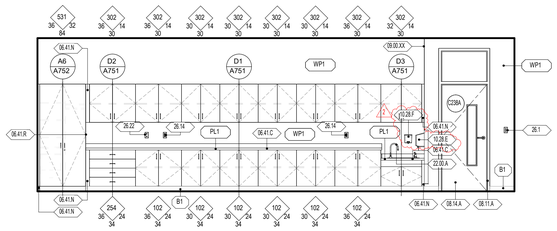


B1 A422 **C238 - CLASSROOM KINDERGARTEN - SOUTH**
1/4" = 1'-0"

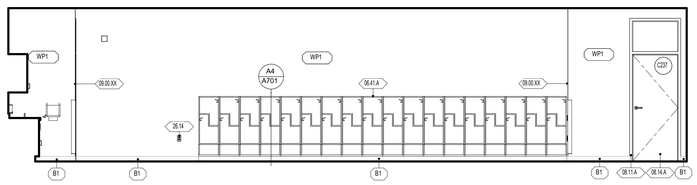


B3 A422 **C238 - CLASSROOM KINDERGARTEN - WEST**
1/4" = 1'-0"

B



A1 A422 **C238 - CLASSROOM KINDERGARTEN - NORTH**
1/4" = 1'-0"



A3 A422 **C238 - CLASSROOM KINDERGARTEN - EAST**
1/4" = 1'-0"

A

1 2 3 4 5 6

GENERAL NOTES - ENLARGED REFERENCE PLANS

1. REFER TO SHEET A401 FOR TOILET ROOM ACCESSORY SCHEDULE AND MOUNTING HEIGHTS.
2. FINAL LOCATION OF ALL TOILET ROOM ACCESSORIES TO BE COORDINATED WITH ARCHITECT/OWNER PRIOR TO INSTALLATION.
3. ALIGN ALL BASE TRANSITIONS WITH FLOORING TRANSITIONS, AS SHOWN ON THE FINISH FLOOR PLANS
4. PAINT ALL EXPOSED DUCTWORK, PIPING, CONDUITS, SUPPORTS, STEEL STRUCTURE, DECK, ETC. SHOWN IN ELEVATIONS.
5. SEE ELECTRICAL SHEETS FOR LOCATIONS OF OUTLETS, SWITCHES, DATA, TELEPHONE, TELEVISION, INTERCOMS, CLOCKS, SPEAKERS, HORNS, STROBES, ETC.
6. PROVIDE A TRANSITION STRIP BETWEEN DIFFERING FLOOR COVERINGS, REFER TO SHEET A800 FOR TYPICAL TRANSITION DETAILS.
7. PROVIDE FILLERS AT ALL END LOCATIONS WHERE LOCKERS OR MILLWORK DO NOT FILL THE WHOLE EXTEND OF THE SPACE SHOWN.
8. ALL ARCHITECTURAL CASEWORK NUMBERS NOTED ARE PER WI STANDARDS.

WALL TYPE
WP1 — WALL TYPE MARK, REFER TO WALL TYPES ON SHEETS A500.
FIRE RATING INDICATOR
ACOUSTICAL INDICATOR

DIVISION
00.00.XX — KEYNOTE MARKER
SECTION SEQUENCE
SECTION

DOOR TYPE
A151A — DOOR TYPE MARK, REFER TO DOOR SCHEDULE.
SHEET LOCATION

WINDOW TYPE
W1 — WINDOW TYPE MARK, REFER TO WINDOW SCHEDULE.
SHEET LOCATION

WALL FINISH

WP1	09 9123 PURE WHITE FINISH ON GYPSUM BOARD
WP2	09 9123 PURE WHITE EPOXY FINISH ON GYPSUM - CUSTODIAL, KITCHEN OFFICE, STORAGE
WP3	09 9123 PURE WHITE EPOXY FINISH ON CMU AND CONC. - CUSTODIAL, STORAGE, IDF, MECH, MDF
WP4	09 9123 BLACK SEMI-GLOSS FINISH ON CMU AND CONC. - STAGE
WP5	09 9123 EPOXY SEMI-GLOSS FINISH ON STEEL
WT1	09 3000 GLAZED CERAMIC TILE - REFER TO DETAIL XXA/101 FOR TILE PATTERN
WT2	09 3000 GLAZED CERAMIC TILE - REFER TO DETAIL XXA/101 FOR TILE PATTERN
WT3	09 3000 GLAZED CERAMIC TILE - REFER TO DETAIL XXA/101 FOR TILE PATTERN
WT4	09 3000 GLAZED CERAMIC TILE - REFER TO DETAIL XXA/101 FOR TILE PATTERN
WT5	09 3000 GLAZED CERAMIC TILE - REFER TO DETAIL XXA/101 FOR TILE PATTERN
WT6	09 3000 GLAZED CERAMIC TILE - REFER TO DETAIL XXA/101 FOR TILE PATTERN
WF1	09 8413 FELT PANEL FINISH
WF2	09 8413 FELT PANEL FINISH
TP1	03 4713 SEALED TILT PANEL

1. INTERIOR SURFACES ONLY. FOR EXTERIOR USE WATER REPELLANT BY SECTION 07 1900
2. REFER TO SECTION 09 9123 TO CLEAN AND PRIME WALLS AS NECESSARY WHERE PLASTIC LAMINATES PLANELS OR VINYL WALL COVERING IS SCHEDULED TO OCCUR
3. SCHLUTER EDGE PROTECTION AT ALL EXPOSED EDGES, CORNERS, FLOOR, & TILE TRANSITIONS, AS PER SECTION 09 3000
4. COORDINATE PANEL JOINTS WITH ARCHITECT PRIOR TO INSTALLATION

BASE FINISH

B1 09 6813 4" CARPET BASE, CLASSROOMS, ADMIN, MEDIA CENTER
B2 09 6519 4" COVE RUBBER BASE, MULTI-PURPOSE, STAGE
B3 09 3000 6" GLAZED CERAMIC TILE, KITCHEN

1. INSTALL SEALANT BETWEEN BASE AND FLOOR TILE AS TCNA APPLICATIONS REQUIRE, SECTION 09 3000
2. METAL TRIM AT TOP OF BASE WHERE NO TILE BASE OCCURS BY SPEC SECTION 09 3000

NWL-LEGEND - KEYNOTE

KEY VALUE	NOTE
06.41.A	06 4100 - ARCHITECTURAL CASEWORK, REFER TO INTERIOR ELEVATIONS AND CASEWORK DETAILS
06.41.C	06 4100/ 06 6116 - PLASTIC LAMINATE OR SOLID SURFACE COUNTERTOP, AND BACKSPLASH WHERE OCCURS. REFER TO INTERIOR ELEVATIONS FOR MORE INFORMATION.
06.41.N	06 4100 - CASEWORK FILLER
06.41.R	06 4100 - FINISH END PANEL AT NONE WALL TERMINATING CASEWORK
06.61.A	06 6116 - SOLID SURFACE WINDOW SILL
08.11.A	08 1113 - HOLLOW METAL DOOR OR WINDOW FRAME, REFER TO SCHEDULES AND DETAILS
08.14.A	08 1416 - FLUSH WOOD DOORS, REFER TO SCHEDULES AND DETAILS
08.43.A	08 4313 - ALUMINUM FRAMED STOREFRONT AND DOOR, REFER TO OPENING ELEVATIONS AND DETAILS.
09.00.XX	WALL FINISHES TO WRAP WHERE WALL JOG OCCURS. REFER TO FLOOR PLAN FOR MORE INFORMATION.
10.11.A	10 1100 - MARKER BOARD PER SPECIFICATION
10.28.E	10 2800 - PAPER TOWEL DISPENSER, OWNER PROVIDED CONTRACTOR INSTALLED. PROVIDE SOLID BLOCKING IN WALL AS REQUIRED
10.28.F	10 2800 - SOAP DISPENSER, REFER TO SPECIFICATION
22.00.A	22 0000 - HAND WASH SINK, REFER TO PLUMBING DRAWINGS
26.1	26 0000 - LV BUTTON, REFER TO ELECTRICAL
26.12	26 0000 - DATA RACK, REFER TO ELECTRICAL DRAWINGS
26.14	26 0000 - OUTLET, REFER TO ELECTRICAL DRAWINGS
26.22	26 0000 - DATA PORT, REFER TO ELECTRICAL DRAWINGS
26.23	26 0000 - DIGITAL DISPLAY BOARD, REFER TO ELECTRICAL DRAWINGS
27.2	27 0000 - COMMUNICATIONS WALL BOX, REFER TO ELECTRICAL PLANS

naylor wentworth lund
architects

CACHE COUNTY
SCHOOL DISTRICT

HYDE PARK ELEMENTARY SCHOOL
333 EAST 300 NORTH
HYDE PARK CITY, UT
84318

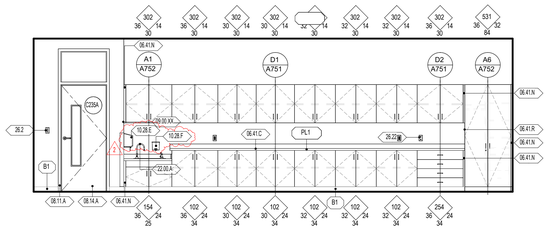
DRAWING ISSUE	BID SET
ISSUE DATE	03/25/2025
NWL PROJECT	0119/302

STATE OF UTAH
NAYLOR WENTWORTH LUND ARCHITECTS
#319164
#1839992
#7247356
LICENSED ARCHITECT

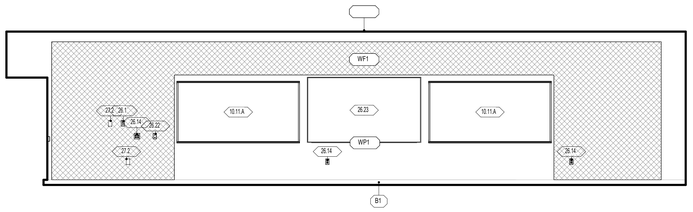
△	DATE	REVISION
2	4/8/2025	ADDENDUM 3

INTERIOR ELEVATIONS

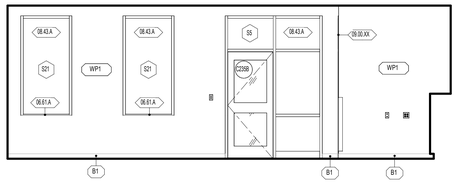
A422



E1 / A423 C235 - CLASSROOM KINDERGARTEN - NORTH
1/4" = 1'-0"

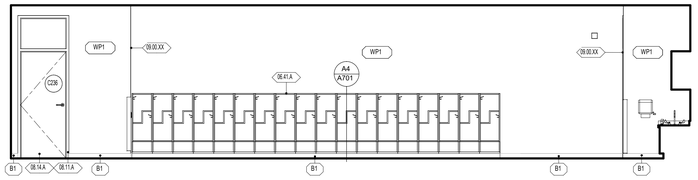


E3 / A423 C235 - CLASSROOM KINDERGARTEN - EAST
1/4" = 1'-0"

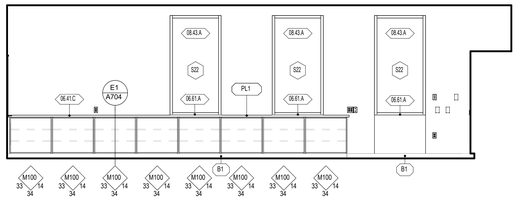


E5 / A423 C235 - CLASSROOM KINDERGARTEN - SOUTH
1/4" = 1'-0"

E

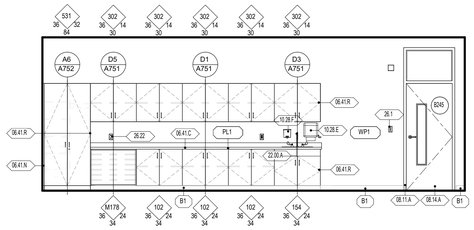


D1 / A423 C235 - CLASSROOM KINDERGARTEN - WEST
1/4" = 1'-0"

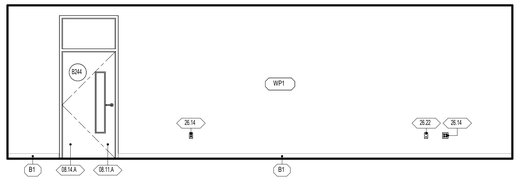


D3 / A423 B245 - CLASSROOM MUSIC - WEST
1/4" = 1'-0"

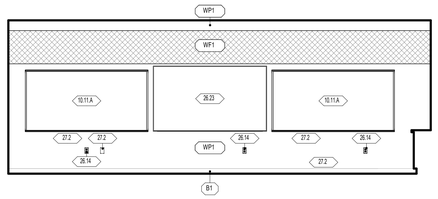
D



C1 / A423 B243 - CLASSROOM MUSIC - NORTH
1/4" = 1'-0"



C3 / A423 B245 - CLASSROOM MUSIC - EAST
1/4" = 1'-0"



C4 / A423 B245 - CLASSROOM MUSIC - SOUTH
1/4" = 1'-0"

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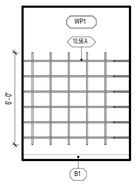
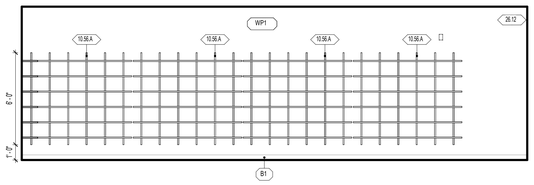
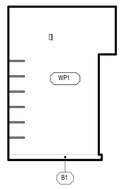


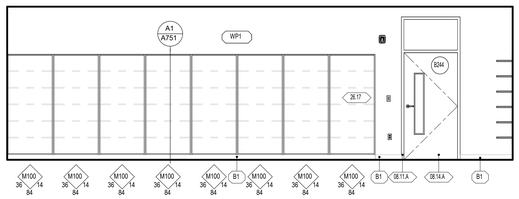
B1 / A423 B244 - MUSIC STORAGE - NORTH
1/4" = 1'-0"



B2 / A423 B244 - MUSIC STORAGE - EAST
1/4" = 1'-0"

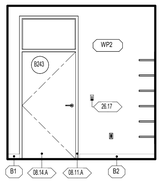


B3 / A423 B244 - MUSIC STORAGE - SOUTH
1/4" = 1'-0"

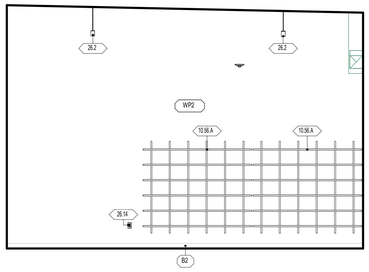


B4 / A423 B244 - MUSIC STORAGE - WEST
1/4" = 1'-0"

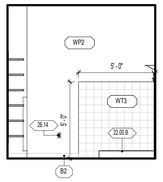
B



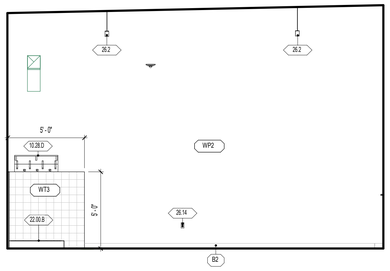
A1 / A423 B243 - CUSTODIAL - NORTH
1/4" = 1'-0"



A2 / A423 B243 - CUSTODIAL - EAST
1/4" = 1'-0"



A3 / A423 B243 - CUSTODIAL - SOUTH
1/4" = 1'-0"



A4 / A423 B243 - CUSTODIAL - WEST
1/4" = 1'-0"

A

1 2 3 4 5 6

GENERAL NOTES - ENLARGED REFERENCE PLANS

1. REFER TO SHEET A401 FOR TOILET ROOM ACCESSORY SCHEDULE AND MOUNTING HEIGHTS.
2. FINAL LOCATION OF ALL TOILET ROOM ACCESSORIES TO BE COORDINATED WITH ARCHITECT/OWNER PRIOR TO INSTALLATION.
3. ALIGN ALL BASE TRANSITIONS WITH FLOORING TRANSITIONS, AS SHOWN ON THE FINISH FLOOR PLANS
4. PAINT ALL EXPOSED DUCTWORK, PIPING, CONDUITS, SUPPORTS, STEEL STRUCTURE, DECK, ETC. SHOWN IN ELEVATIONS.
5. SEE ELECTRICAL SHEETS FOR LOCATIONS OF OUTLETS, SWITCHES, DATA, TELEPHONE, TELEVISION, INTERCOMS, CLOCKS, SPEAKERS, HORNS, STROBES, ETC.
6. PROVIDE A TRANSITION STRIP BETWEEN DIFFERING FLOOR COVERINGS, REFER TO SHEET A800 FOR TYPICAL TRANSITION DETAILS.
7. PROVIDE FILLERS AT ALL END LOCATIONS WHERE LOCKERS OR MILLWORK DO NOT FILL THE WHOLE EXTEND OF THE SPACE SHOWN.
8. ALL ARCHITECTURAL CASEWORK NUMBERS NOTED ARE PER WI STANDARDS.

WALL TYPE
WALL TYPE MARK, REFER TO WALL TYPES ON SHEETS A500.
FIRE RATING INDICATOR
ACOUSTICAL INDICATOR

DIVISION
KEYNOTE MARKER
SECTION SEQUENCE
SECTION

DOOR TYPE
DOOR TYPE MARK, REFER TO DOOR SCHEDULE.
SHEET LOCATION

WINDOW TYPE
WINDOW TYPE MARK, REFER TO WINDOW SCHEDULE.
SHEET LOCATION

WALL FINISH

WP1 09 9123 PURE WHITE FINISH ON GYPSUM BOARD
WP2 09 9123 PURE WHITE EPOXY FINISH ON GYPSUM - CUSTODIAL, KITCHEN OFFICE, STORAGE
WP3 09 9123 PURE WHITE EPOXY FINISH ON CMU AND CONC. - CUSTODIAL, STORAGE, IDF, MECH, MDF
WP4 09 9123 BLACK SEMI-GLOSS FINISH ON CMU AND CONC. - STAGE
WP5 09 9123 EPOXY SEMI-GLOSS FINISH ON STEEL
WT1 09 3000 GLAZED CERAMIC TILE - REFER TO DETAIL XXA101 FOR TILE PATTERN
WT2 09 3000 GLAZED CERAMIC TILE - REFER TO DETAIL XXA101 FOR TILE PATTERN
WT3 09 3000 GLAZED CERAMIC TILE - REFER TO DETAIL XXA101 FOR TILE PATTERN
WT4 09 3000 GLAZED CERAMIC TILE - REFER TO DETAIL XXA101 FOR TILE PATTERN
WT5 09 3000 GLAZED CERAMIC TILE - REFER TO DETAIL XXA101 FOR TILE PATTERN
WT6 09 3000 GLAZED CERAMIC TILE - REFER TO DETAIL XXA101 FOR TILE PATTERN
WF1 09 8413 FELT PANEL FINISH
WF2 09 8413 FELT PANEL FINISH
TP1 03 4713 SEALED TILT PANEL

1. INTERIOR SURFACES ONLY. FOR EXTERIOR USE WATER REPELLANT BY SECTION 07 1900
2. REFER TO SECTION 09 9123 TO CLEAN AND PRIME WALLS AS NECESSARY WHERE PLASTIC LAMINATES PLANELS OR VINYL WALL COVERING IS SCHEDULED TO OCCUR
3. SCHLUTER EDGE PROTECTION AT ALL EXPOSED EDGES, CORNERS, FLOOR, & TILE TRANSITIONS, AS PER SECTION 09 3000
4. COORDINATE PANEL JOINTS WITH ARCHITECT PRIOR TO INSTALLATION

BASE FINISH

B1 09 6813 4" CARPET BASE, CLASSROOMS, ADMIN, MEDIA CENTER
B2 09 6519 4" COVE RUBBER BASE, MULTI-PURPOSE, STAGE
B3 09 3000 6" GLAZED CERAMIC TILE, KITCHEN

1. INSTALL SEALANT BETWEEN BASE AND FLOOR TILE AS TCNA APPLICATIONS REQUIRE. SECTION 09 3000
2. METAL TRIM AT TOP OF BASE WHERE NO TILE BASE OCCURS BY SPEC SECTION 09 3000

NWL-LEGEND - KEYNOTE

KEY VALUE	NOTE
06.41.A	06 4100 - ARCHITECTURAL CASEWORK, REFER TO INTERIOR ELEVATIONS AND CASEWORK DETAILS
06.41.C	06 4100/ 06 6116 - PLASTIC LAMINATE OR SOLID SURFACE COUNTERTOP, AND BACKSPLASH WHERE OCCURS. REFER TO INTERIOR ELEVATIONS FOR MORE INFORMATION.
06.41.N	06 4100 - CASEWORK FILLER
06.41.R	06 4100 - FINISH END PANEL AT NONE WALL TERMINATING CASEWORK
06.61.A	06 6116 - SOLID SURFACE WINDOW SILL
08.11.A	08 1113 - HOLLOW METAL DOOR OR WINDOW FRAME. REFER TO SCHEDULES AND DETAILS
08.14.A	08 1416 - FLUSH WOOD DOORS. REFER TO SCHEDULES AND DETAILS
08.43.A	08 4313 - ALUMINUM FRAMED STOREFRONT AND DOOR. REFER TO OPENING ELEVATIONS AND DETAILS.
09.00.XX	WALL FINISHES TO WRAP WHERE WALL JOG OCCURS. REFER TO FLOOR PLAN FOR MORE INFORMATION.
10.11.A	10 1100 - MARKER BOARD/PER SPECIFICATION
10.28.D	10 2800 - MOP AND BROOM RACK. PROVIDE SOLID BLOCKING IN WALL AS REQUIRED
10.28.E	10 2800 - PAPER TOWEL DISPENSER, OWNER PROVIDED CONTRACTOR INSTALLED. PROVIDE SOLID BLOCKING IN WALL AS REQUIRED
10.28.F	10 2800 - SOAP DISPENSER, REFER TO SPECIFICATION
10.56.A	10 5617 - ADJUSTABLE METAL STORAGE SHELVING. REFER TO SPECIFICATION
22.00.A	22 0000 - HAND WASH SINK, REFER TO PLUMBING DRAWINGS
22.00.B	22 0000 - FLOOR SINK, REFER TO PLUMBING DRAWINGS
26.1	26 0000 - LV BUTTON, REFER TO ELECTRICAL
26.2	26 0000 - LIGHTING FIXTURE, REFER TO ELECTRICAL DRAWINGS
26.12	26 0000 - DATA RACK, REFER TO ELECTRICAL DRAWINGS
26.14	26 0000 - OUTLET, REFER TO ELECTRICAL DRAWINGS
26.17	26 0000 - LIGHT CALL BOX, REFER TO ELECTRICAL DRAWINGS
26.22	26 0000 - DATA PORT, REFER TO ELECTRICAL DRAWINGS
26.23	26 0000 - DIGITAL DISPLAY BOARD, REFER TO ELECTRICAL DRAWINGS
27.2	27 0000 - COMMUNICATIONS WALL BOX, REFER TO ELECTRICAL PLANS

naylor wentworth lund
a r c h i t e c t s

CACHE COUNTY
SCHOOL DISTRICT

HYDE PARK ELEMENTARY SCHOOL
335 E-647 300 NORTH
HYDE PARK CITY, UT
84318

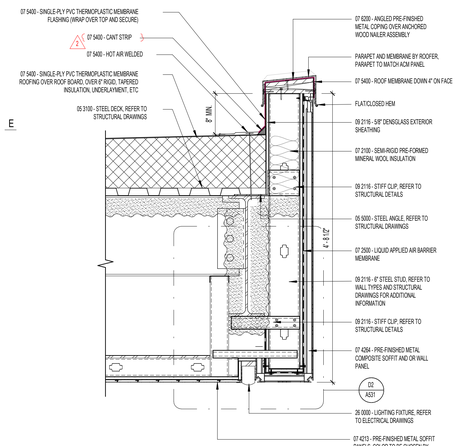
DRAWING ISSUE	BID SET
ISSUE DATE	02/25/2025
NWL PROJECT	0119.002

STATE OF UTAH
NAYLOR WENTWORTH LUND ARCHITECTS
#319164
#183992
#7247356
LICENSED ARCHITECT

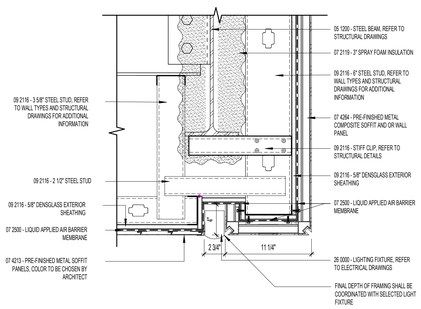
△	DATE	REVISION
2	4/8/2025	ADDENDUM 3

INTERIOR ELEVATIONS

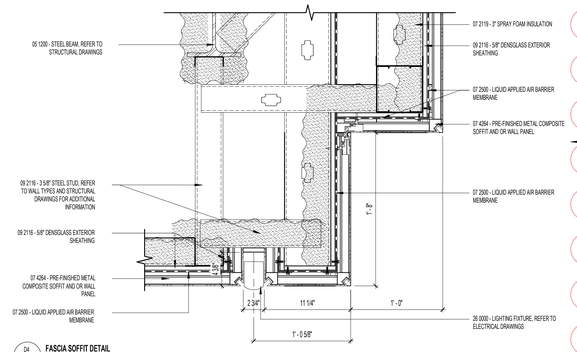
A423



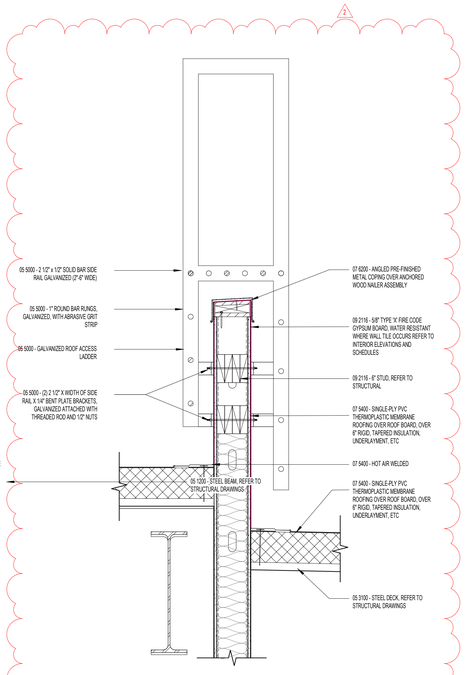
D1 A531 **PARAPET DETAIL** 1" = 1'-0"



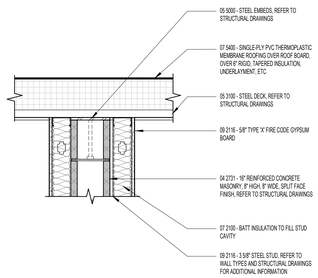
D2 A531 **SOFFIT CORNER DETAIL** 1 1/2" = 1'-0"



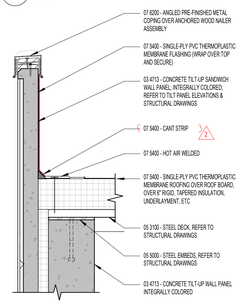
D4 A531 **FASCIA SOFFIT DETAIL** 1 1/2" = 1'-0"



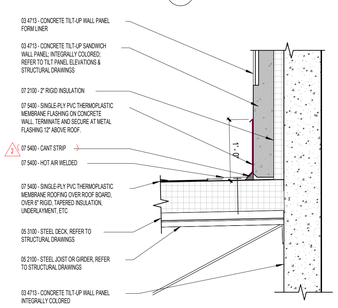
D5 A531 **ROOF ACCESS LADDER DETAIL** 1" = 1'-0"



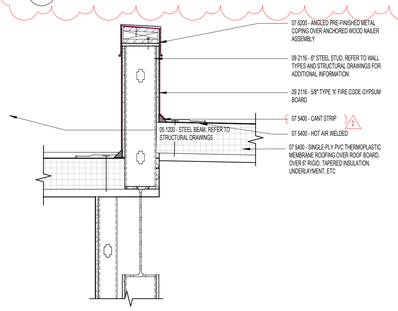
C1 A531 **CMU WALL AT ROOF DETAIL** 1" = 1'-0"



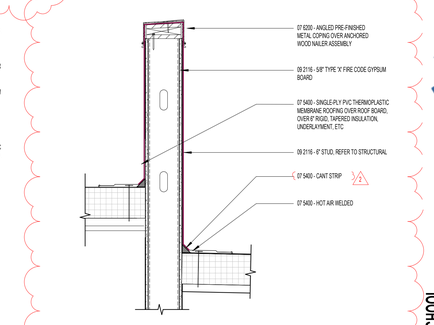
C2 A531 **MULTI-PURPOSE ROOF PARAPET WALL DETAIL** 1" = 1'-0"



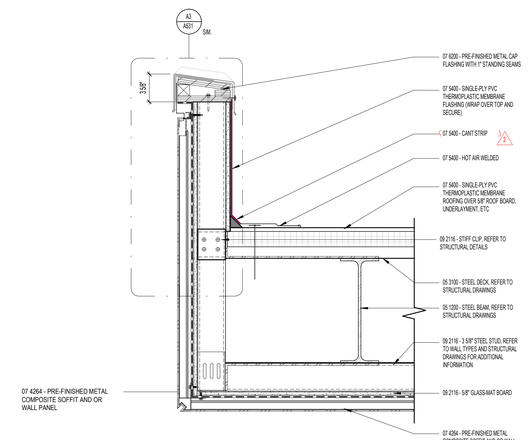
C3 A531 **LOWER ROOF TERMINTATION AT VENEER PANEL** 1" = 1'-0"



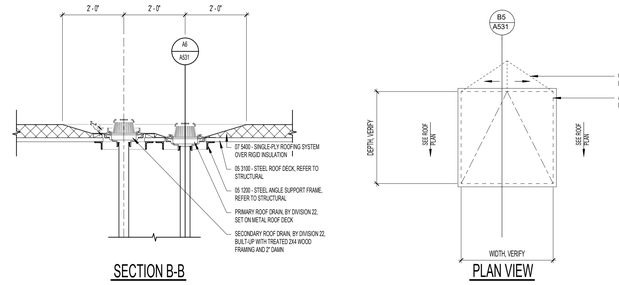
C5 A531 **ROOF PARAPET WALL DETAIL 2** 1" = 1'-0"



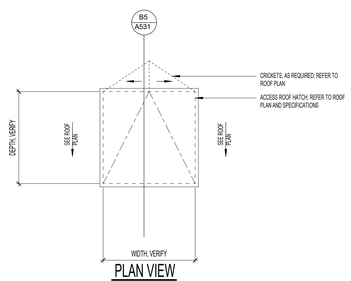
C6 A531 **ROOF PARAPET WALL DETAIL** 1" = 1'-0"



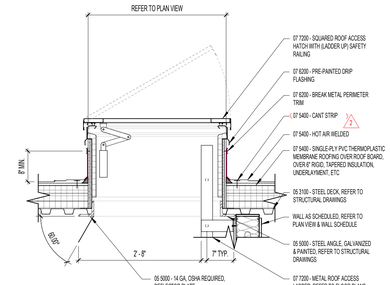
A1 A531 **ROOF OVERHANG DETAIL** 1 1/2" = 1'-0"



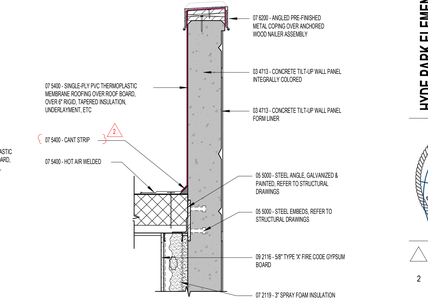
B3 A531 **ROOF DRAIN SECTION B-B** 1/2" = 1'-0"



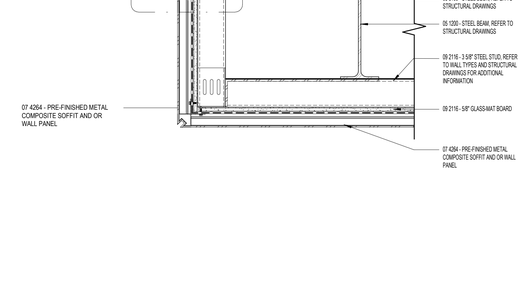
B4 A531 **ROOF ACCESS HATCH PLAN VIEW** 1/2" = 1'-0"



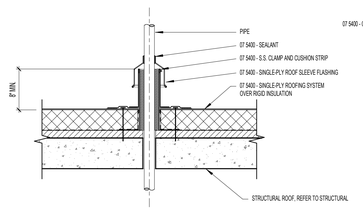
B5 A531 **ROOF ACCESS HATCH** 3/4" = 1'-0"



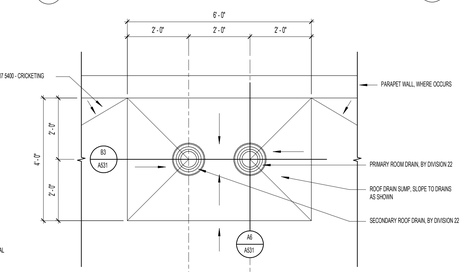
B6 A531 **TYP. ROOF PARAPET WALL DETAIL** 1" = 1'-0"



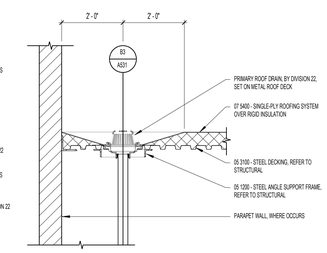
A3 A531 **ACM PANEL DETAIL** 1 1/2" = 1'-0"



A4 A531 **TYPICAL PIPE VENT DETAIL** 1" = 1'-0"



A5 A531 **ROOF DRAIN PLAN VIEW** 1/2" = 1'-0"



A6 A531 **ROOF DRAIN SECTION A-A** 1/2" = 1'-0"

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architects

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335 EAST 300 NORTH
HYDE PARK CITY, UT
84318

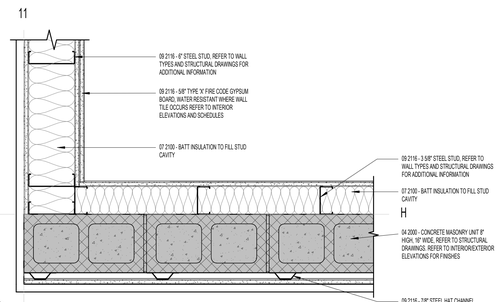
DRAWING ISSUE	BID SET
ISSUE DATE	02/25/2025
NWL PROJECT	0119.002

STATE OF UTAH
NAYLOR WENTWORTH LUND ARCHITECTS
#319164
#183992
#7247356
LICENSED ARCHITECT

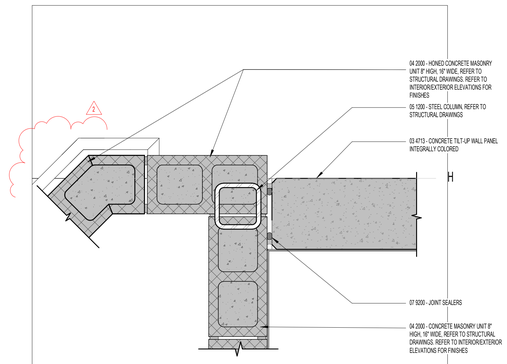
△	DATE	REVISION
2	4/8/2025	ADDENDUM 3

ROOF DETAILS

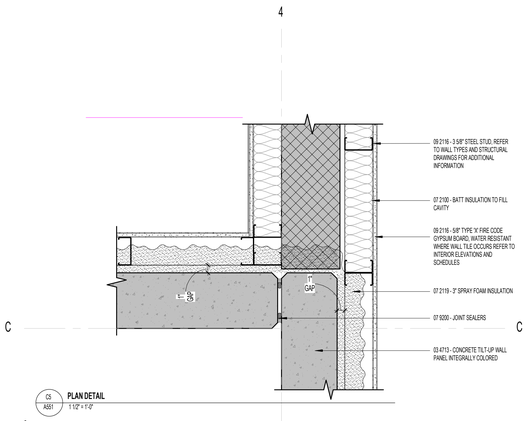
A531



C2 PLAN DETAIL
A551 1 1/2" = 1'-0"



C3 PLAN DETAIL
A551 1 1/2" = 1'-0"



C5 PLAN DETAIL
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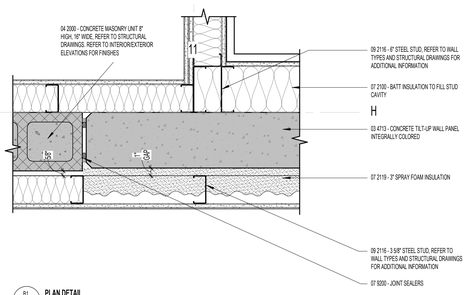
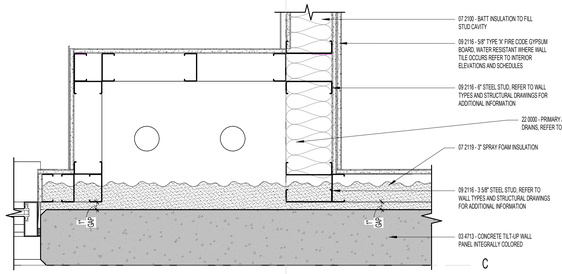
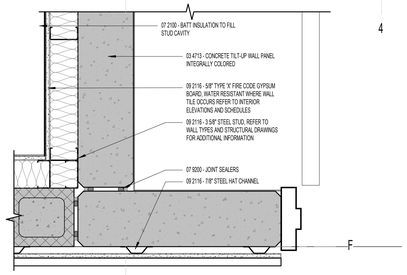


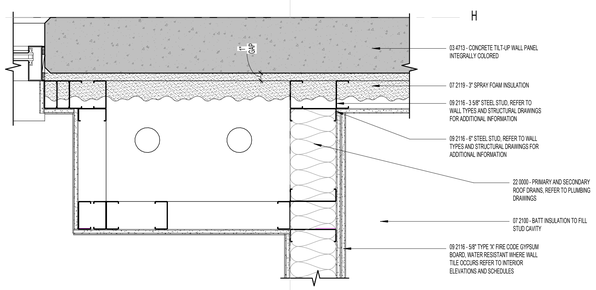
B1 PLAN DETAIL
A551 1 1/2" = 1'-0"



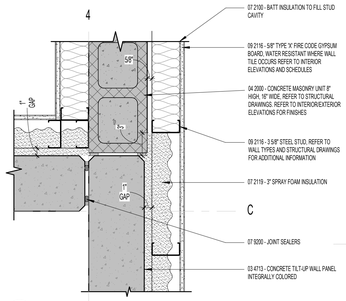
B3 PLAN DETAIL
A551 1 1/2" = 1'-0"



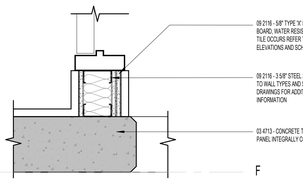
B4 PLAN DETAIL
A551 1 1/2" = 1'-0"



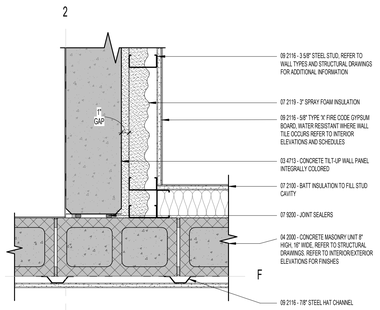
B6 PLAN DETAIL
A551 1 1/2" = 1'-0"



A1 PLAN DETAIL
A551 1 1/2" = 1'-0"



A2 PLAN DETAIL
A551 1 1/2" = 1'-0"



A3 PLAN DETAIL
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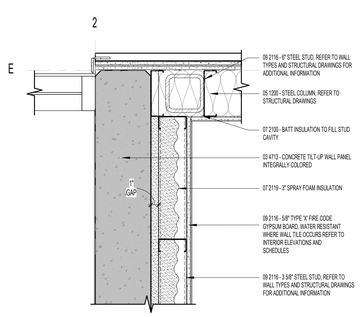

A4 PLAN DETAIL
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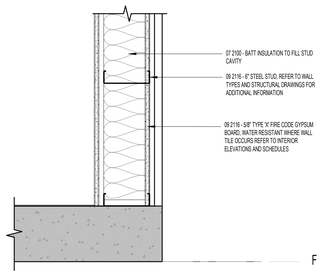
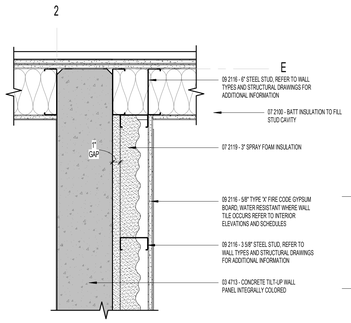


A5 PLAN DETAIL
A551 1 1/2" = 1'-0"



A6 PLAN DETAIL
A551 1 1/2" = 1'-0"

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SCHOOL DISTRICT

HYDE PARK ELEMENTARY SCHOOL
320 EAST 300 NORTH
HYDE PARK CITY, UT
84318

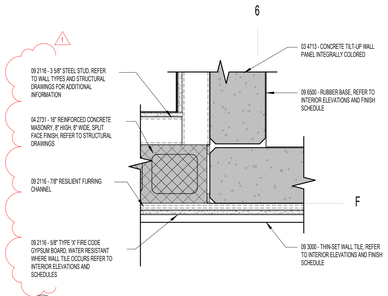
DRAWING ISSUE	BID SET
ISSUE DATE	02/25/2025
NWL PROJECT	0119.002

STATE OF UTAH
NAYLOR WENTWORTH LUND ARCHITECTS
#319164
#183992
#7247356
LICENSED ARCHITECT

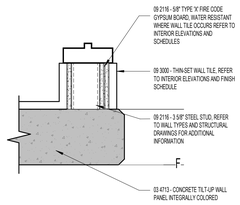
△	DATE	REVISION
2	4/8/2025	ADDENDUM 3

PLAN DETAILS

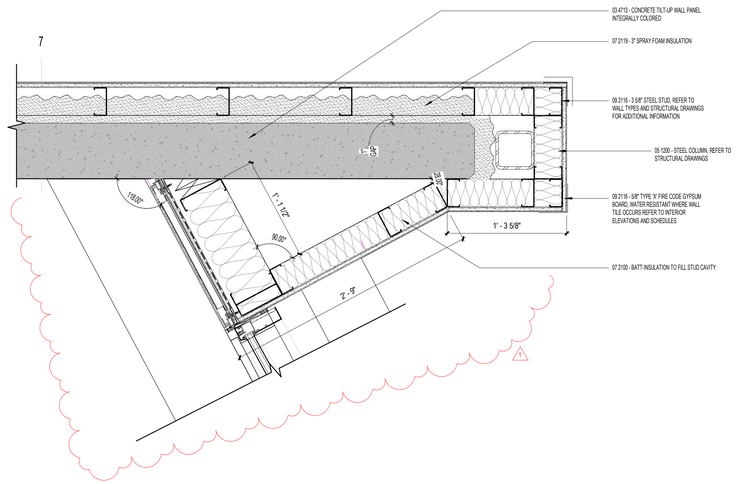
A551



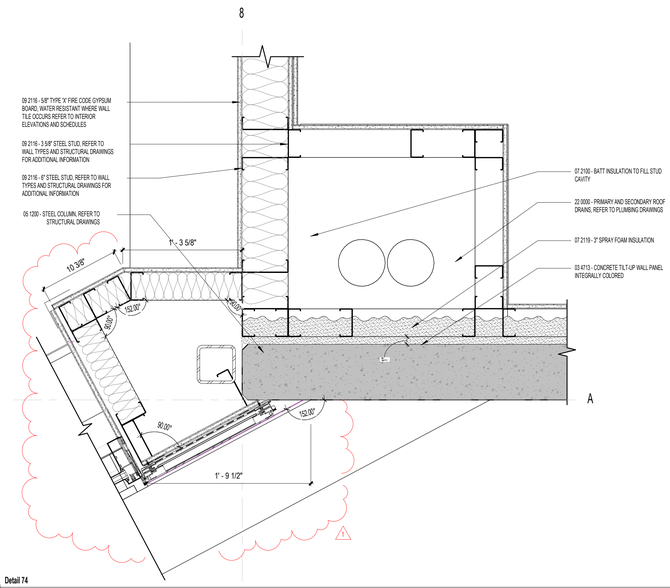
E1 / A552 **WALL DETAIL**
1 1/2" = 1'-0"



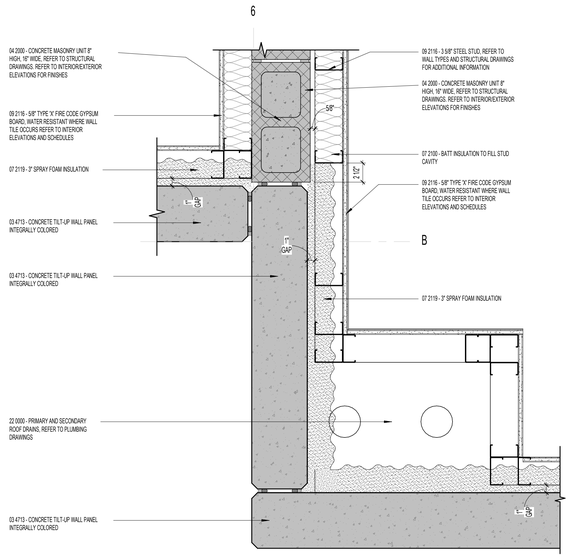
E3 / A552 **WALL DETAIL 2**
1 1/2" = 1'-0"



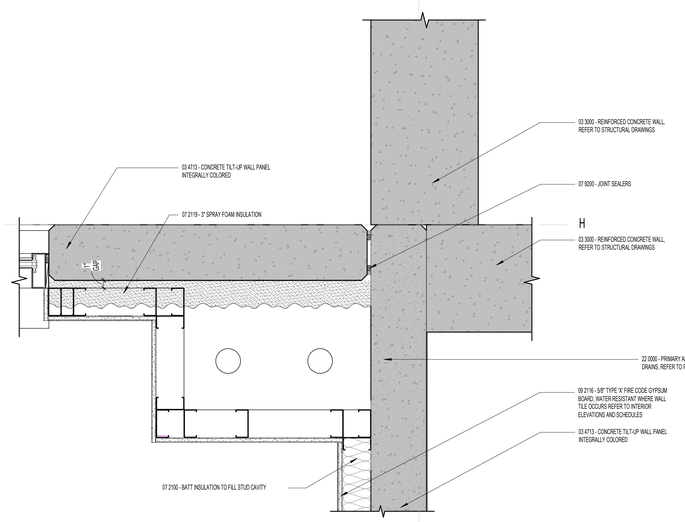
C1 / A552 **Detail 75**
1 1/2" = 1'-0"



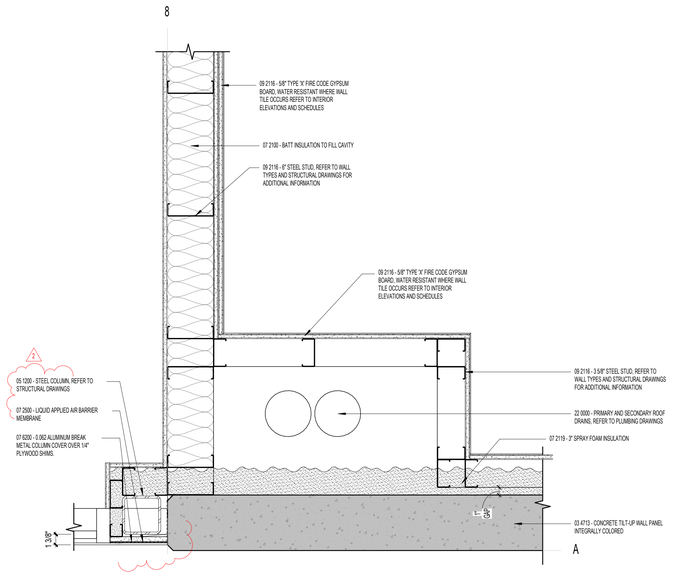
C3 / A552 **Detail 74**
1 1/2" = 1'-0"



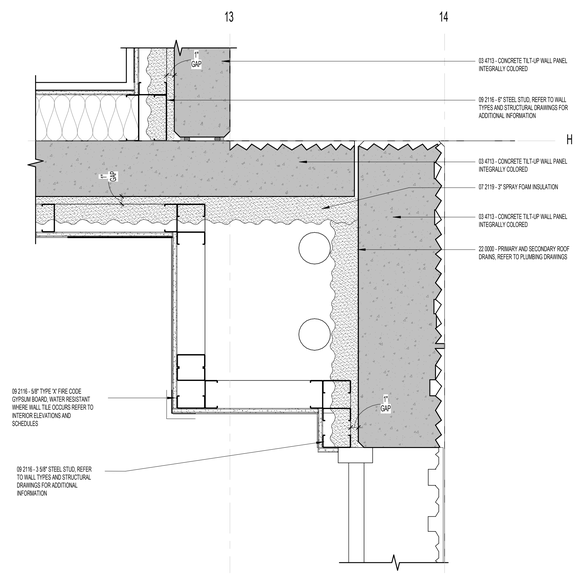
C5 / A552 **PLAN DETAIL**
1 1/2" = 1'-0"



A1 / A552 **Detail 72**
1 1/2" = 1'-0"



A3 / A552 **Detail 73**
1 1/2" = 1'-0"



A5 / A552 **Detail 76**
1 1/2" = 1'-0"

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LICENSED ARCHITECT

	DATE	REVISION
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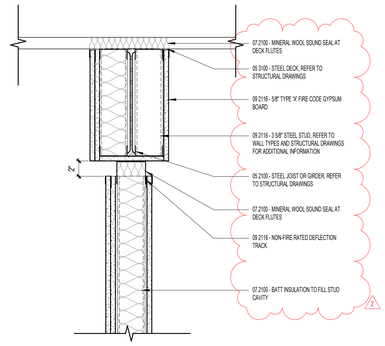
2	4/8/2025	ADDENDUM 3

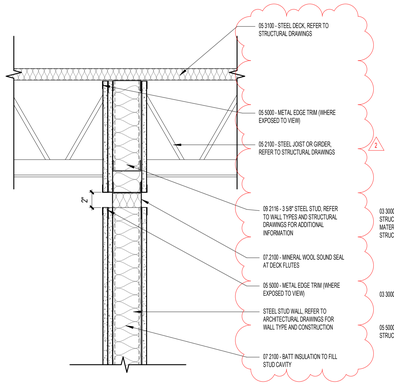
PLAN DETAILS

A552



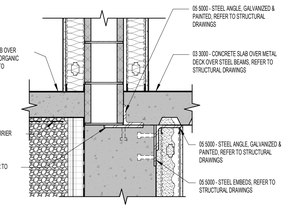
SOUND RATED

D1 A553 **TOP OF WALL DETAIL**
1 1/2" = 1'-0"



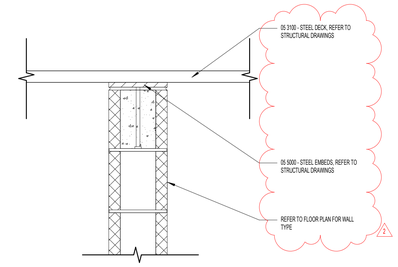
SOUND RATED

D2 A553 **TOP OF WALL DETAIL**
1 1/2" = 1'-0"



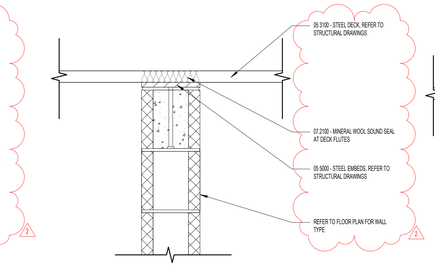
D3 A553 **CONCRETE FOUNDATION WALL CONNECTION TO CMU**
1" = 1'-0"

D



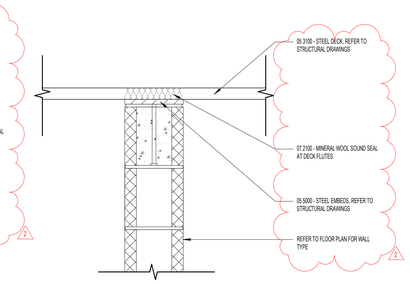
UNRATED

E4 A553 **TOP OF WALL DETAIL**
1 1/2" = 1'-0"



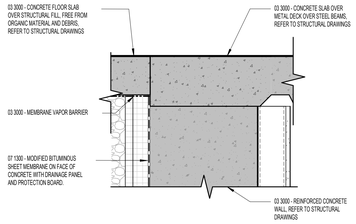
SOUND RATED

E5 A553 **TOP OF WALL DETAIL**
1 1/2" = 1'-0"

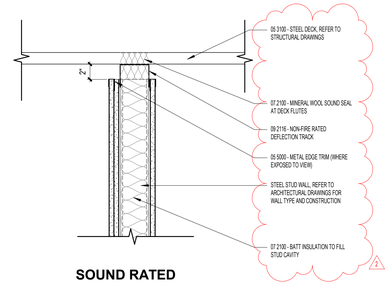


FIRE RATED

E6 A553 **TOP OF WALL DETAIL**
1 1/2" = 1'-0"

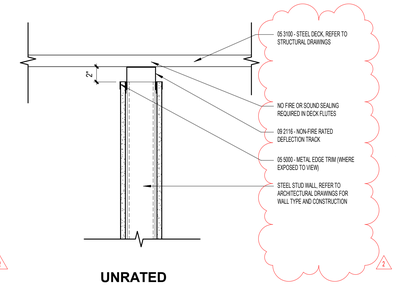


D4 A553 **CONCRETE FOUNDATION WALL CONNECTION TO FLOOR**
1 1/2" = 1'-0"



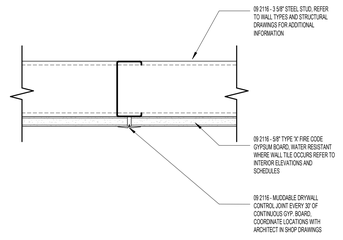
SOUND RATED

D5 A553 **TOP OF WALL DETAIL**
1 1/2" = 1'-0"

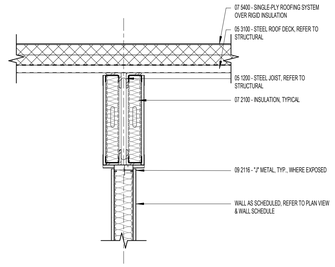


UNRATED

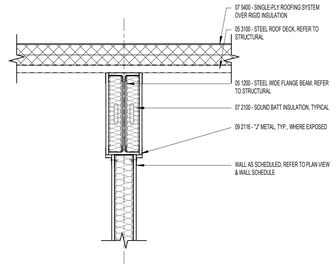
D6 A553 **TOP OF WALL DETAIL**
1 1/2" = 1'-0"



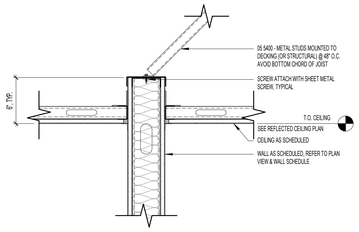
C1 A553 **TYPICAL DRYWALL CONTROL JOINT DETAIL**
3" = 1'-0"



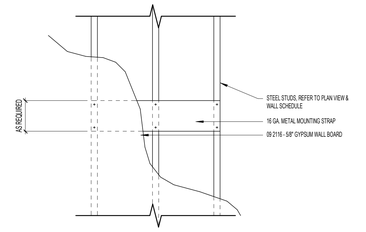
C2 A553 **WALL ENCLOSURE DETAIL**
1" = 1'-0"



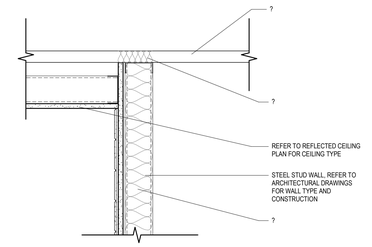
C3 A553 **WALL ENCLOSURE DETAIL**
1" = 1'-0"



C4 A553 **WALL SUPPORT DETAIL**
1 1/2" = 1'-0"



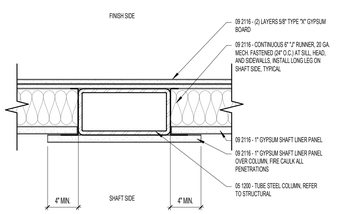
C5 A553 **WALL MOUNTING PLATE DETAIL**
1 1/2" = 1'-0"



CHASE WALL

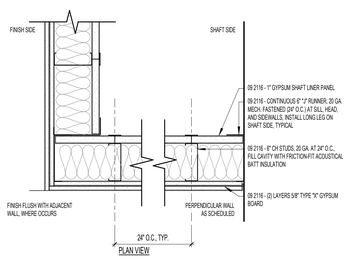
C6 A553 **TOP OF WALL DETAIL**
1 1/2" = 1'-0"

C



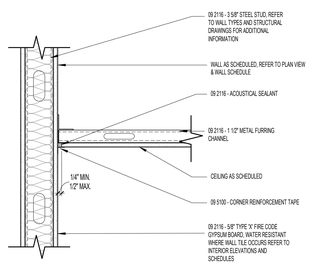
PLAN VIEW

B1 A553 **FIRE PROOFING DETAIL**
1 1/2" = 1'-0"

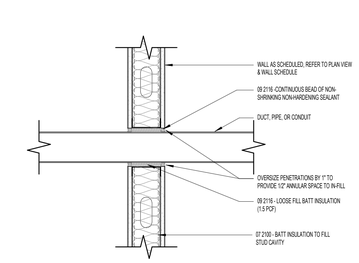


PLAN VIEW

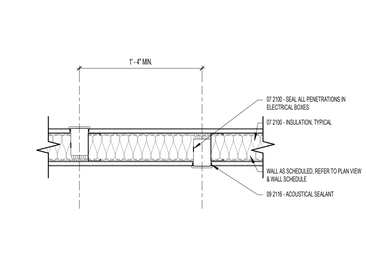
B2 A553 **FIRE PROOFING DETAIL**
1 1/2" = 1'-0"



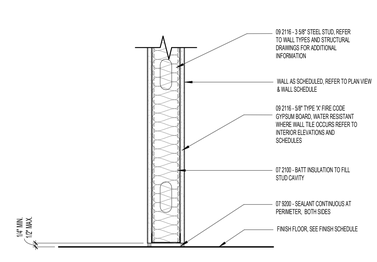
B3 A553 **FIRE PROOFING DETAIL**
1 1/2" = 1'-0"



B4 A553 **FIRE EXTINGUISHER INSTALL DETAIL**
3/4" = 1'-0"

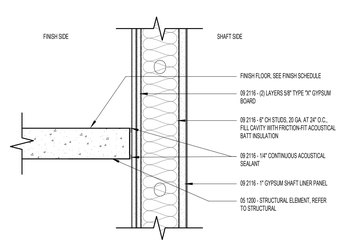


A5 A553 **STC ACOUSTICAL DETAIL**
1 1/2" = 1'-0"



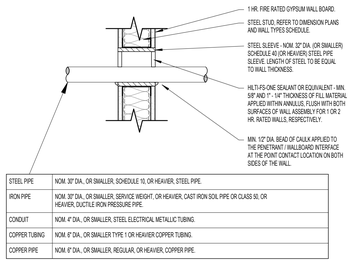
A6 A553 **STC ACOUSTICAL DETAIL**
1 1/2" = 1'-0"

A



SECTION VIEW

A1 A553 **FIRE PROOFING DETAIL**
1 1/2" = 1'-0"



STEEL PIPE	NOM. 30" DIA., OR SMALLER, SCHEDULE 10, OR HEAVIER, STEEL PIPE.
IRON PIPE	NOM. 30" DIA., OR SMALLER, SERVICE WEIGHT, OR HEAVIER, CAST IRON SOIL PIPE OR CLASS 50, OR HEAVIER, DUCTILE IRON PRESSURE PIPE.
CONDUIT	NOM. 4" DIA., OR SMALLER, STEEL ELECTRICAL METALLIC TUBING.
COPPER TUBING	NOM. 6" DIA., OR SMALLER TYPE 1 OR HEAVIER COPPER TUBING.
COPPER PIPE	NOM. 6" DIA., OR SMALLER, REGULAR, OR HEAVIER, COPPER PIPE.

A2 A553 **FIRE PROOFING DETAIL**
1 1/2" = 1'-0"

A3 A553 **STC ACOUSTICAL DETAIL**
1 1/2" = 1'-0"

A4 A553 **STC ACOUSTICAL DETAIL**
1 1/2" = 1'-0"

A5 A553 **STC ACOUSTICAL DETAIL**
1 1/2" = 1'-0"

A6 A553 **STC ACOUSTICAL DETAIL**
1 1/2" = 1'-0"

1 2 3 4 5 6

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#183992
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LICENSED ARCHITECT

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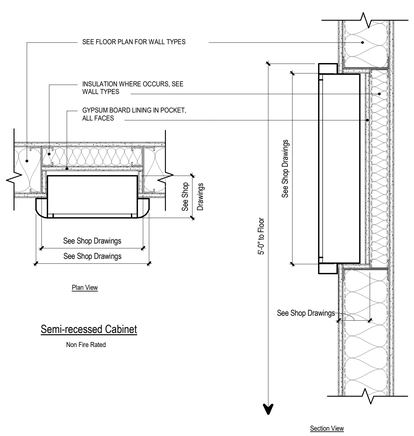
2	4/8/2025	ADDENDUM 3

TOP OF WALL DETAILS

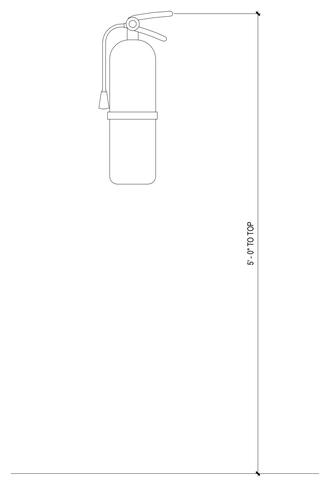
A553



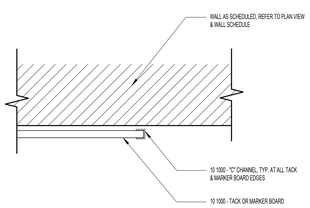
Semi-recessed Cabinet

Non Fire Rated

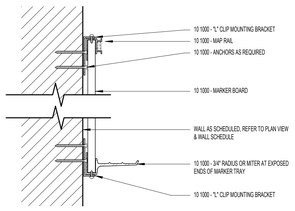
B1 / A561 **FIRE EXTINGUISHER CABINET DETAIL - SEMI-RECESSED**
1 1/2" = 1'-0"



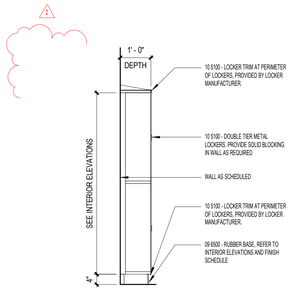
B3 / A561 **FIRE EXTINGUISHER DETAIL - HOOK MOUNTED**
1 1/2" = 1'-0"



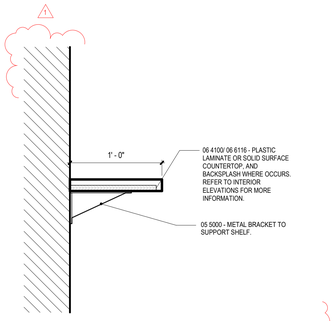
A1 / A561 **TACK BOARD EDGE DETAIL**
3" = 1'-0"



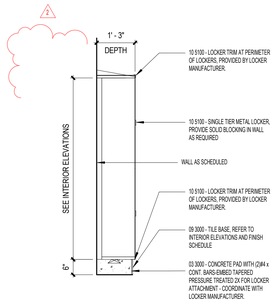
A2 / A561 **MARKER BOARD DETAIL**
3" = 1'-0"



A3 / A561 **READING FACILITATOR LOCKERS, DOUBLE**
1/2" = 1'-0"



A4 / A561 **SIGN/IN COUNTER**
1 1/2" = 1'-0"



A5 / A561 **KITCHEN LOCKERS, SINGLE**
1/2" = 1'-0"

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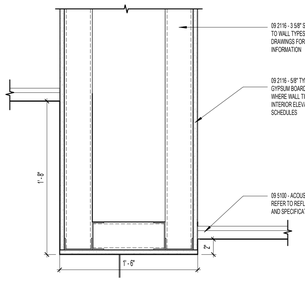
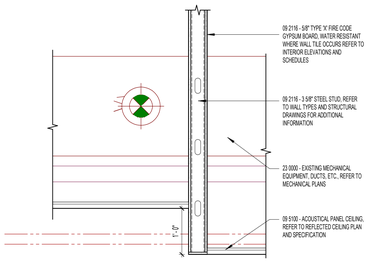
MISCELLANEOUS DETAILS

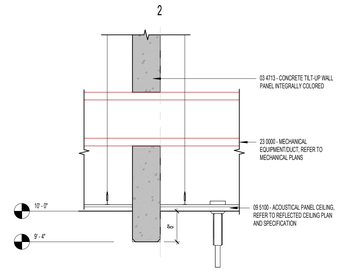
A561



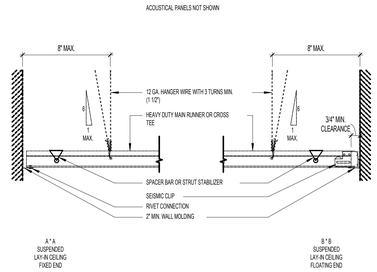
E1 A571 **CEILING DETAIL** 1 1/2" = 1'-0"

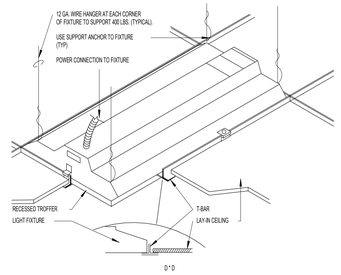


E2 A571 **CEILING DETAIL** 3/4" = 1'-0"

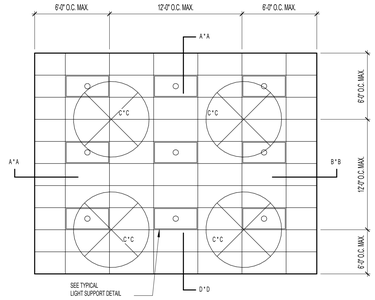


E3 A571 **CEILING DETAIL** 3/4" = 1'-0"





TYPICAL LIGHT SUPPORT DETAIL

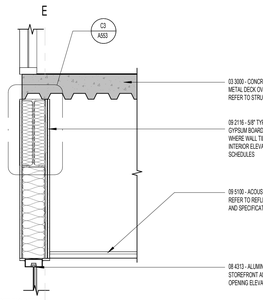


INSTALL CEILING PER ASTM C636 AND ASTM E580 STANDARDS.

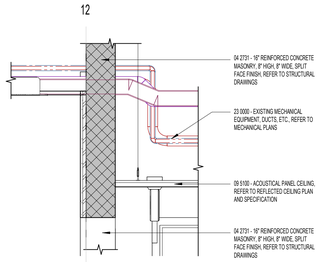
FOR CEILINGS 1,000 SQUARE FEET OR LESS:
HORIZONTAL RESTRAINT SHALL BE AFFECTED BY FOUR NO. 12 GAUGE WIRES SECURED TO THE MAIN RUNNER WITHIN 2" OF THE CROSS RUNNER INTERSECTION AND SPLAYED 90° FROM EACH OTHER AT AN ANGLE NOT TO EXCEED 45° FROM THE PLANE OF THE CEILING. THESE RESTRAINT POINTS SHALL BE PLACED 12'-0" O.C. MAX. IN BOTH DIRECTIONS WITH THE FIRST POINT WITHIN 6'-0" FROM EACH WALL AT ONE CORNER OF THE ROOM AND NOT TO EXCEED 6'-0" MAX. FROM ANY WALL AT THE PERIMETER OF APPLICATION. ATTACHMENT OF ALL RESTRAINT WIRES SHALL BE AS PER CISCA STANDARDS AND SHALL BE ADEQUATE FOR THE LOAD IMPOSED.

CEILINGS OVER 2,500 SQUARE FEET SHALL HAVE A SEISMIC SEPERATION JOINT OR BULKHEAD BRACED TO THE STRUCTURE

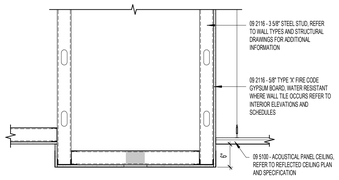
E



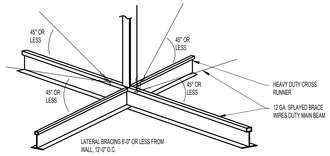
D1 A571 **CEILING DETAIL** 3/4" = 1'-0"



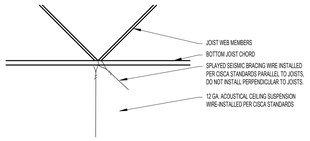
D2 A571 **CEILING DETAIL** 3/4" = 1'-0"



D3 A571 **CEILING DETAIL** 3/4" = 1'-0"



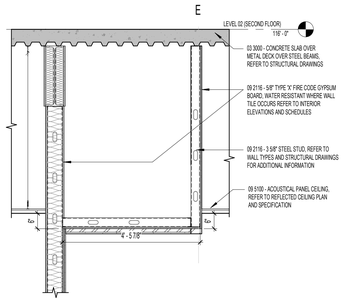
TYPICAL LATERAL FORCE DETAIL



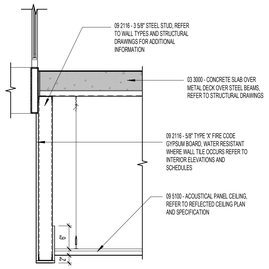
TYPICAL WIRE CONNECTION TO ROOF JOIST

D4 A571 **TYPICAL CEILING DETAILS** 12" = 1'-0"

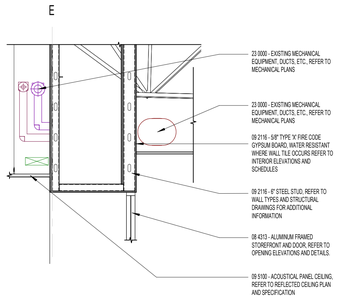
D



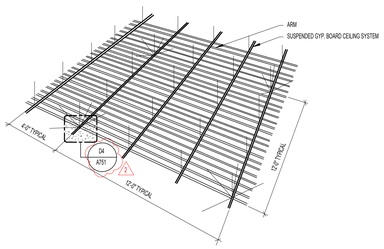
C1 A571 **CEILING DETAIL** 1/2" = 1'-0"

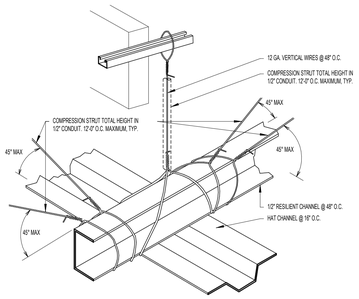


C2 A571 **CEILING DETAIL** 3/4" = 1'-0"

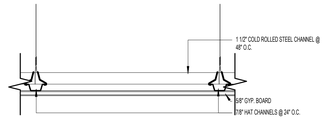


C3 A571 **CEILING DETAIL** 3/8" = 1'-0"

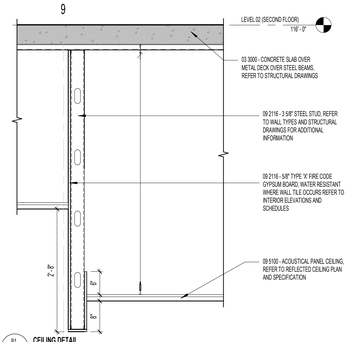




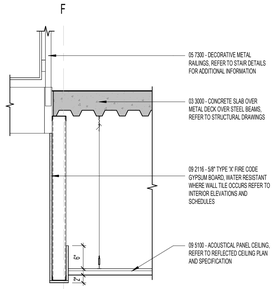
C4 A571 **SUSPENDED CEILING DETAIL** 3" = 1'-0"



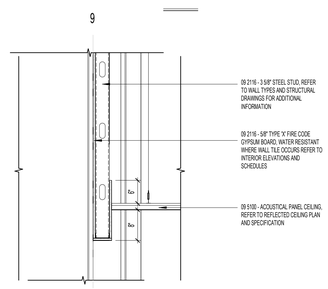
C



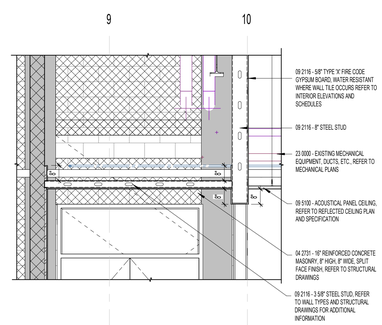
B1 A571 **CEILING DETAIL** 3/4" = 1'-0"



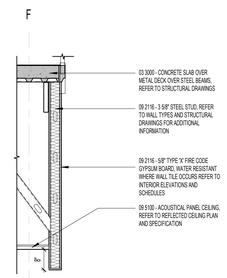
B2 A571 **CEILING DETAIL** 3/4" = 1'-0"



B3 A571 **CEILING DETAIL** 3/4" = 1'-0"

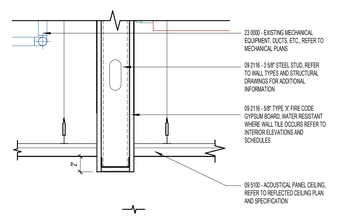


B4 A571 **CEILING DETAIL** 3/8" = 1'-0"

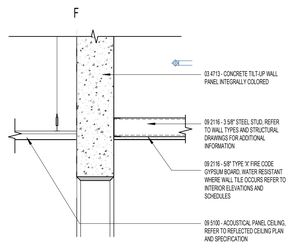


B5 A571 **CEILING DETAIL** 1/2" = 1'-0"

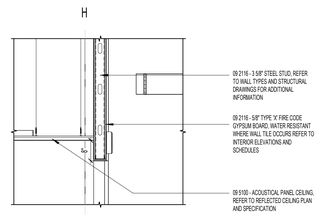
A



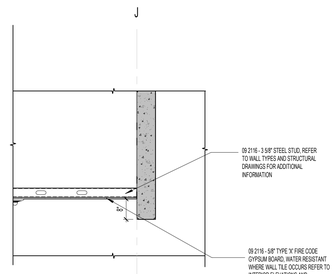
A1 A571 **CEILING DETAIL** 1 1/2" = 1'-0"



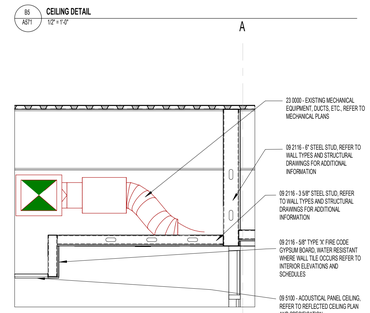
A2 A571 **CEILING DETAIL** 1" = 1'-0"



A3 A571 **CEILING DETAIL** 1/2" = 1'-0"



A4 A571 **CEILING DETAIL** 1/2" = 1'-0"



A5 A571 **CEILING DETAIL** 1/2" = 1'-0"

1 2 3 4 5 6

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CACHE COUNTY
SCHOOL DISTRICT

HYDE PARK ELEMENTARY SCHOOL
1111 EAST 300 NORTH
HYDE PARK CITY, UT
84318

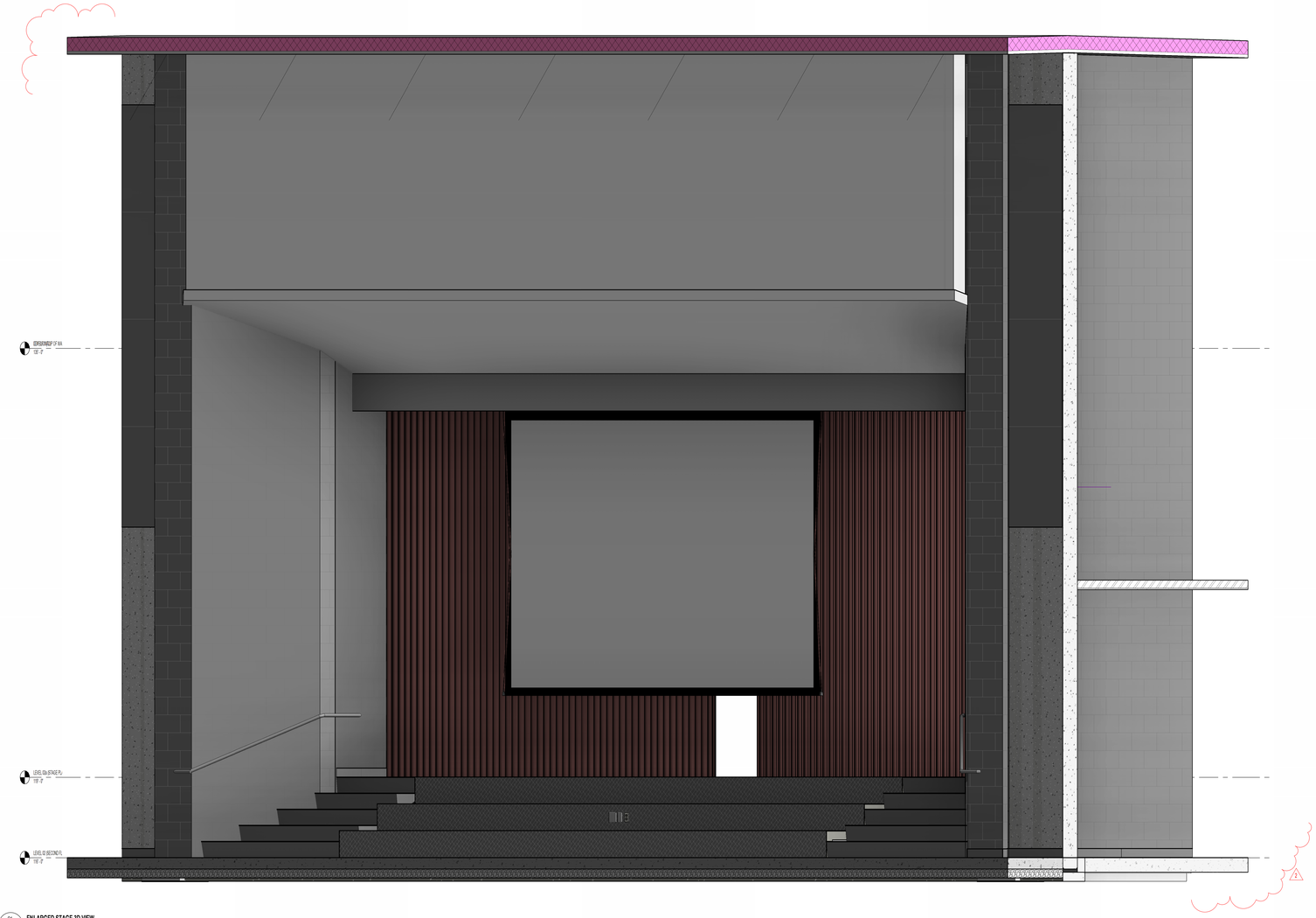
DRAWING ISSUE	BID SET
ISSUE DATE	03/25/2025
NWL PROJECT	0118.002

STATE OF UTAH
NAYLOR WENTWORTH LUND ARCHITECTS
#319164
#183992
#7247356
LICENSED ARCHITECT

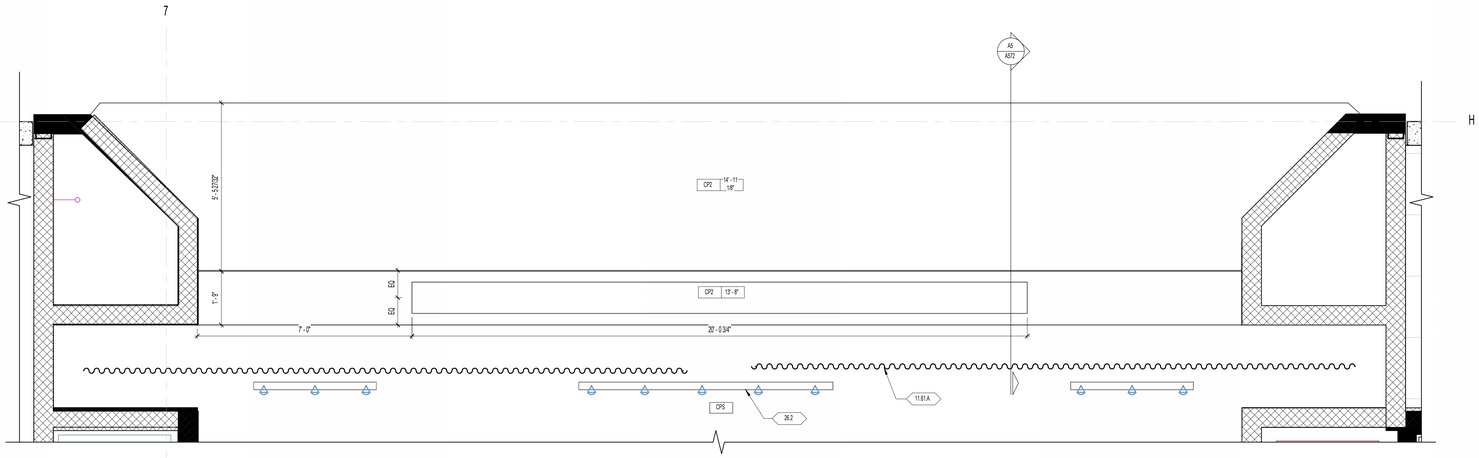
△	DATE	REVISION
2	4/8/2025	ADDENDUM 3

CEILING DETAILS

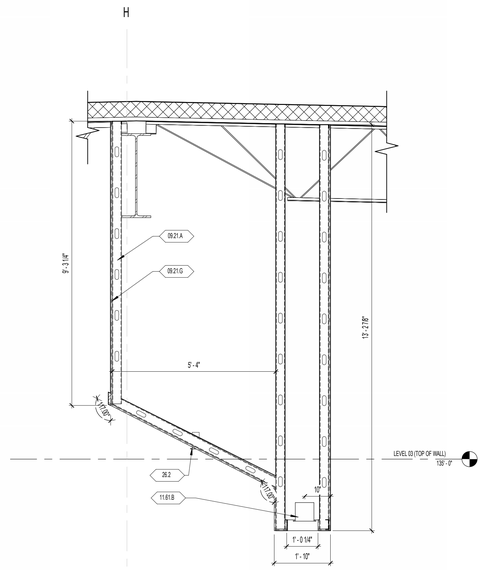
A571



C1 A572 ENLARGED STAGE 3D VIEW



A1 A572 1/2" = 1'-0" ENLARGED STAGE RCP



A5 A572 1/2" = 1'-0" CEILING DETAIL

GENERAL NOTES - WALL SECTIONS

1. REFER TO OVERALL DIMENSION PLANS FOR ALL EXTERIOR DIMENSIONS & EXTERIOR ROUGH OPENINGS. ALL DIMENSIONS ARE TO FACE OF FINISH CONCRETE WALLS, FACE OF METAL STUDS, FACE OF SCHEDULE FINISH WHERE "CLEAR" DIMENSIONS ARE NOTED, CENTERLINE OF COLUMNS, CENTERLINE OF DOOR OPENINGS, AND TO GRIDS, UNLESS NOTED OTHERWISE.
2. REFER TO REFLECTED CEILING PLANS FOR CEILING TYPES LEGEND.
3. FOR PROJECT ANNOTATION SYMBOLS, REFER TO SHEET G004 - GENERAL INFORMATION.

NWL-LEGEND - KEYNOTE

KEY VALUE	NOTE
09.21.A	09 2116 - 3-5/8" STEEL STUD, REFER TO WALL TYPES AND STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION
09.21.G	09 2116 - 5/8" TYPE 'X' FIRE CODE GYPSUM BOARD, WATER RESISTANT WHERE WALL TILE OCCURS REFER TO INTERIOR ELEVATIONS AND SCHEDULES
11.61.A	11 6143 - PLATFORM RIGGING AND CURTAINS, REFER TO SPECIFICATION
11.61.B	11 6143 - PROJECTOR SCREEN HOUSING
26.2	26 0000 - LIGHTING FIXTURE, REFER TO ELECTRICAL DRAWINGS

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CACHE COUNTY
SCHOOL DISTRICT

HYDE PARK ELEMENTARY SCHOOL
332 EAST 300 NORTH
HYDE PARK CITY, UT
84318

DRAWING ISSUE	BID SET
ISSUE DATE	03/25/2025
NWL PROJECT	0119.002

STATE OF UTAH
NAYLOR WENTWORTH LUND ARCHITECTS
#319164
#183992
#7247356
LICENSED ARCHITECT

	DATE	REVISION
2	4/8/2025	ADDENDUM 3

CEILING DETAILS

A572

DOOR SCHEDULE

MARK	NAME: TO ROOM (PULL SIDE)	NAME: FROM ROOM (PUSH SIDE)	DOOR							FRAME				DETAIL			GENERAL		
			TYPE	WIDTH	HEIGHT	FINISH	SNG	PR	GLS	TYPE	MATERIAL	FINISH	TRANSOM	HEAD	JAMB	SILL	LBL	HARDWARE	COMMENTS
LEVEL 01 (MAIN FLOOR)																			
A116	CLASSROOM GRADE 3		WD02	3' - 0"	7' - 0"		SINGLE			FM02			G5	A3/A604	A3/A604			01	
A117	CLASSROOM GRADE 4		WD02	3' - 0"	7' - 0"		SINGLE			FM02			G5	A3/A604	A3/A604			01	
A118	CLASSROOM GRADE 4		WD02	3' - 0"	7' - 0"		SINGLE			FM02			G5	A3/A604	A3/A604			01	
A119	CLASSROOM GRADE 4		WD02	3' - 0"	7' - 0"		SINGLE			FM02			G5	A3/A604	A3/A604			01	
A120A		ENTRY A1	PA02	3' - 0"	7' - 0"								-	A4/A646	C6/A645			AL08	
A120B		ENTRY A1	PA02	3' - 0"	7' - 0"								-	A4/A646	A5/A645			AL08	
A120C	ENTRY A1		PA02	3' - 0"	7' - 0"								-	D4/A645	1/A551			AL09	
A120D	ENTRY A1		PA02	3' - 0"	7' - 0"								-	D4/A645	D5/A645			AL09	
A121	CUSTODIAL STORAGE		WD01	3' - 0"	7' - 0"		SINGLE			FM02			G7	A6/A604	A6/A604			09	45 MINUTE FIRE RATING
A122	CLASSROOM GRADE 5		WD02	3' - 0"	7' - 0"		SINGLE			FM02			G5	A2/A604	A2/A604			01	
A123	CLASSROOM GRADE 5		WD02	3' - 0"	7' - 0"		SINGLE			FM02			G5	A2/A604	A2/A604			01	
A124	CLASSROOM GRADE 5		WD02	3' - 0"	7' - 0"		SINGLE			FM02			G5	A2/A604	A2/A604			01	
A183	CLASSROOM GRADE 3		WD02	3' - 0"	7' - 0"		SINGLE			FM02			G5	A2/A604	A2/A604			01	
B101A	WAITING	CORRIDOR B1	PA02	3' - 0"	7' - 0"								-	C4/A645	B5/A645			AL04	
B101B	MAIN ENTRY B1	WAITING	PA01	3' - 0"	7' - 0"		SINGLE						-	C4/A645	B5/A645			AL04	
B103	SRO	WAITING	WD01	3' - 0"	7' - 0"		SINGLE			FM04			G5	A4/A604	A4/A604			05	
B104	CONFERENCE	HALL	WD01	3' - 0"	7' - 0"		SINGLE			FM04			G5	A1/A605	A1/A605			05	
B105	PRINCIPAL	HALL	WD01	3' - 0"	7' - 0"		SINGLE			FM04			G5	A1/A605	A1/A605			05	
B106	NURSE	ADMIN.	WD01	3' - 0"	7' - 0"		SINGLE			HM01			G5	A4/A604	A4/A604			05	
B107	RR	NURSE	WD01	3' - 0"	7' - 0"		SINGLE			FM02			G6	A2/A605	A2/A605			12	
B108A	ADMIN WORKROOM	CORRIDOR B1	WD01	3' - 0"	7' - 0"		SINGLE			FM02			G5	A3/A604	A3/A604			06	
B108B	ADMIN WORKROOM	WAITING	WD01	3' - 0"	7' - 0"		SINGLE			FM04			G5	A4/A604	A4/A604			05	
B109A	BREAKROOM	HALL	WD01	3' - 0"	7' - 0"		SINGLE			FM04			G5	A4/A604	A4/A604			05	
B109B	HALL	BREAKROOM	WD01	3' - 0"	7' - 0"		SINGLE			FM04			G5	A4/A604	A4/A604			05	
B110	COUNSELOR	CORRIDOR B1	WD02	3' - 0"	7' - 0"		SINGLE			FM02			G5	A3/A604	A3/A604			05	
B111	RR	HALL	WD01	3' - 0"	7' - 0"		SINGLE			FM02			G6	A2/A605	A2/A605			12	
B112	RR	HALL	WD01	3' - 0"	7' - 0"		SINGLE			FM02			G6	A2/A605	A2/A605			12	
B113A	HALL	CORRIDOR A1	WD02	3' - 0"	7' - 0"		SINGLE			FM02			G5	A2/A605	A2/A605			06	
B114	MDF	CORRIDOR B1	WD01	3' - 0"	7' - 0"		SINGLE			FM02			G5	A3/A604	A3/A604			06	
B115	CLASSROOM GRADE 3	CORRIDOR B1	WD02	3' - 0"	7' - 0"		SINGLE			FM02			G5	A3/A604	A3/A604			01	
B126	MECH	CORRIDOR B1	WD01	3' - 0"	7' - 0"			DOUBLE		FM02			G6	C3/A604	C3/A604			19	SOUND RATED DOOR AND FRAME, STC 60
B127	RR	BUILDING RESTROOM	WD01	3' - 0"	7' - 0"		SINGLE			FM02			G6	C2/A604	C2/A604			12	
B129	RR	BUILDING RESTROOM	WD01	3' - 0"	7' - 0"		SINGLE			FM02			G6	C2/A604	C2/A604			12	
B131	CUSTODIAL	CUSTODIAL HALL	WD01	3' - 6"	7' - 0"		SINGLE			FM02			G7	A4/A604	A4/A604			13	45 MINUTE FIRE RATING
B132	TIMEOUT ROOM	CUSTODIAL HALL	WD01	3' - 0"	7' - 0"		SINGLE			FM02			G6 -TEMPERED	E5/A604	E5/A604			04	
B133	RR	ESSENTIAL ELEMENTS	WD01	3' - 0"	7' - 0"		SINGLE			FM02			G6	A3/A604	A3/A604			12	
B134	ESSENTIAL ELEMENTS STORAGE	ESSENTIAL ELEMENTS	WD01	3' - 0"	7' - 0"		SINGLE			FM02			G5	A3/A604	A3/A604			05	
B135	ESSENTIAL ELEMENTS	HALL	WD02	3' - 0"	7' - 0"		SINGLE			FM02			G5	A3/A604	A3/A604			01	
B137	RESOURCE	HALL	WD02	3' - 0"	7' - 0"		SINGLE			FM02			G5	A3/A604	A3/A604			01	
B138		FIRE RISER	HM01	3' - 6"	7' - 0"		SINGLE			FM02			G1 - TEMPERED	C6/A604	C6/A604			07	
B139	RESOURCE	HALL	WD02	3' - 0"	7' - 0"		SINGLE			FM02			G5	A3/A604	A3/A604			01	
B140	SLP OFFICE	CORRIDOR B1	WD02	3' - 0"	7' - 0"		SINGLE			FM02			G5	A3/A604	A3/A604			01	
B141A		MAIN ENTRY B1	PA01	3' - 0"	7' - 0"			DOUBLE					-	A4/A646	A5/A645			AL11	
B141B		MAIN ENTRY B1	PA01	3' - 0"	7' - 0"			DOUBLE					-	A4/A646	A5/A645			AL10	
B141C	MAIN ENTRY B1	CORRIDOR B1	PA01	3' - 0"	7' - 0"			DOUBLE					-	C4/A645	B5/A645			AL13	
B141D	MAIN ENTRY B1	CORRIDOR B1	PA01	3' - 0"	7' - 0"								-	C4/A645	D3/A645			AL12	
B144	CUSTODIAL HALL	CORRIDOR B1	WD01	3' - 6"	7' - 0"		SINGLE			FM02			G5	A5/A604	A5/604			03	
B145	ELEC.	CORRIDOR B1	WD01	3' - 0"	7' - 0"		SINGLE			FM02			G6	C3/A604	C3/A604			09	
LEVEL 02 (SECOND FLOOR)																			
A205	ESL	CORRIDOR B2	WD02	3' - 0"	7' - 0"					FM02			G5	A3/A604	A3/A604			09	
A209	CLASSROOM ART	CORRIDOR A2	WD02	3' - 0"	7' - 0"		SINGLE			FM02			G5	A3/A604	A3/A604			01	
A210	COMPUTER LAB	CORRIDOR A2	WD02	3' - 0"	7' - 0"		SINGLE			FM02			G5	A3/A604	A3/A604			01	
A211	CLASSROOM GRADE 2	CORRIDOR A2	WD02	3' - 0"	7' - 0"		SINGLE			FM02			G5	A3/A604	A3/A604			01	
A212	CLASSROOM GRADE 2	CORRIDOR A2	WD02	3' - 0"	7' - 0"		SINGLE			FM02			G5	A3/A604	A3/A604			01	
A213	CLASSROOM GRADE 2	CORRIDOR A2	WD02	3' - 0"	7' - 0"		SINGLE			FM02			G5	A2/A604	A2/A604			01	
A214	CLASSROOM GRADE 1	CORRIDOR A2	WD02	3' - 0"	7' - 0"		SINGLE			FM02			G5	A2/A604	A2/A604			01	
A215	CLASSROOM GRADE 1	CORRIDOR A2	WD02	3' - 0"	7' - 0"		SINGLE			FM02			G5	A2/A604	A2/A604			01	
A216	CLASSROOM GRADE 1	CORRIDOR A2	WD02	3' - 0"	7' - 0"		SINGLE			FM02			G5	A2/A604	A2/A604			01	
B201	ADMIN WORKROOM	CORRIDOR B2	WD02	3' - 0"	7' - 0"		SINGLE			FM02			G5	A3/A604	A3/A604			06	
B202		CORRIDOR B2	PA02	3' - 0"	7' - 0"		SINGLE						G5	D4/A645	C1/A645			AL03	
B203A	CORRIDOR B2	MEDIA CENTER	PA02	3' - 0"	7' - 0"		SINGLE						-	D4/A645	D5/A645			AL02	
B203B	CORRIDOR B2	MEDIA CENTER	PA02	3' - 0"	7' - 0"			DOUBLE					-	D4/A645	D5/A645			AL07	
B206	TIME OUT	CORRIDOR B2	WD02	3' - 0"	7' - 0"					FM02			G6 -TEMPERED	C1/A604	C1/A604			04	
B207	ART STORAGE	CLASSROOM ART	WD02	3' - 0"	7' - 0"		SINGLE			FM02			G5	C1/A605	C1/A605			02	
B208	MEDIA STORAGE	MEDIA CENTER	WD02	3' - 0"	7' - 0"		SINGLE			FM02			G5	C2/A605	C2/A605			02	
B217	ELEC.	CORRIDOR B2	WD01	3' - 0"	7' - 0"		SINGLE			FM02			G6	C3/A604	C3/A604			09	
B218	MULTIPURPOSE ROOM	MULTIPURPOSE STORAGE	HM01	3' - 0"	7' - 0"					FM03			G5 - TEMPERED	C3/A604	C3/A604			19	
B219		CORRIDOR B2	WD01	3' - 0"	7' - 0"		SINGLE			FM02			G6	C3/A604	C3/A604			01	
B220	STAGE STORAGE	STAGE	WD01	3' - 0"	7' - 0"		SINGLE			FM01			G5	C5/A604	C5/A604			02	
B222	BUILDING RESTROOM	RR	WD01	3' - 0"	7' - 0"		SINGLE			FM02			G6	C2/A604	C2/A604			12	
B223	BUILDING RESTROOM	RR	WD01	3' - 0"	7' - 0"		SINGLE			FM02			G6	C2/A604	C2/A604			12	
B226	GYM OFFICE	MULTIPURPOSE ROOM	HM01	3' - 0"	7' - 0"		SINGLE			FM02			G5 - TEMPERED	C3/A604	C3/A604			05	
B241A	CLASSROOM PRESCHOOL	CORRIDOR B2	WD02	3' - 0"	7' - 0"		SINGLE			FM02			G5	A2/A604	A2/A604			01	
B241B	CLASSROOM PRESCHOOL		PA01	3' - 0"	7' - 0"		SINGLE						-	B1/A645	E5/A645			AL05	
B242	RR	CLASSROOM PRESCHOOL	WD01	3' - 0"	7' - 0"		SINGLE			FM02			G6	A2/A605	A2/A605			12	
B243	CUSTODIAL	CORRIDOR B2	WD01	3' - 6"	7' - 0"		SINGLE			FM02			G6	A2/A604	A2/A604			13	
B244	MUSIC STORAGE	CLASSROOM MUSIC	WD02	3' - 6"	7' - 0"		SINGLE			FM02			G5	A1/A605	A1/A605			16	
B245	CLASSROOM MUSIC	CORRIDOR B2	WD02	3' - 0"	7' - 0"		SINGLE			FM02			G8	A2/A604	A2/A604			11	SOUND RATED DOOR AND FRAME, STC 60
B246	SLP OFFICE	CORRIDOR B2	WD02	3' - 0"	7' - 0"		SINGLE			FM02			G5	A3/A604	A3/A604			11	
C225A	CORRIDOR C2		WD02	3' - 7 1/2"	7' - 0"			DOUBLE		FM03			G5 - TEMPERED	C3/A604	E1/A605;E2 /A605			20	6" DOOR FRAME THICKNESS, REFER TO DETAILS
C225B		MULTIPURPOSE ROOM	HM01	3' - 0"	7' - 0"			DOUBLE		FM03			G1 - TEMPERED	C4/A604	C4/A604			21	
C225C	CORRIDOR B2		WD02	3' - 0"	7' - 0"			DOUBLE		FM03			G5 - TEMPERED	C3/A604	C3/A604			19	
C227A	MAIN ELEC.	MULTIPURPOSE ROOM	HM01	3' - 0"	7' - 0"		SINGLE			FM02			G6 -TEMPERED	C3/A604	C3/A604			17	
C227B	UTILITY YARD	MAIN ELEC.	HM01	4' - 0"	7' - 0"		SINGLE			FM02			G1 - TEMPERED	C6/A604	C6/A604			15	
C228A	MECH.	MECH.	WD01	3' - 0"	7' - 0"		SINGLE			FM01			G5	C5/A604	C5/A604			18	
C228B		MECH.	HM01	3' - 0"	7' - 0"			DOUBLE		FM03			G1 - TEMPERED	C6/A604	C6/A604			22	
C229		MECH.	HM01	3' - 0"	7' - 0"			DOUBLE		FM03			G1 - TEMPERED	C6/A604	C6/A604			22	
C230A		EXTERIOR STORAGE	HM01	3' - 6"	7' - 0"		SINGLE			FM02			G1 - TEMPERED	C6/A604	C6/A604			10	
C230B		EXTERIOR STORAGE	OVERHEAD DOOR	10' - 0"	9' - 4"								-	E6/A605	D6/A605			OH01	
C231A	KITCHEN	MULTIPURPOSE ROOM	HM01	3' - 0"	7' - 0"			DOUBLE		FM03			G5 - TEMPERED	E3/A604	E3/A604			19	
C231B	KITCHEN	MULTIPURPOSE ROOM	HM01	3' - 0"	7' - 0"		SINGLE			FM02			G5 - TEMPERED	E3/A604	E3/A604			02	
C231C	KITCHEN	MULTIPURPOSE ROOM	HM01	3' - 0"	7' - 0"		SINGLE			FM02			G5 - TEMPERED	E3/A604	E3/A604			02	
C231D		KITCHEN	HM01	3' - 6"	7' - 0"		SINGLE			FM02			G1 - TEMPERED	C6/A604	C6/A604			14	
C232	IDF	CORRIDOR C2	WD01	3' - 0"	7' - 0"		SINGLE			FM02			G6	A6/A604	A6/A604			06	
C233A	CORRIDOR C2	RECEIVING	WD01	3' - 0"	7' - 0"			DOUBLE		FM03			G6	A6/A604	A6/A604			19	
C233B		RECEIVING	OVERHEAD DOOR	6' - 0"	9' - 4"								-	E6/A605	D6/A605			OH01	
C234	MULTIPURPOSE ROOM	STORAGE	HM01	3' - 0"	7' - 0"			DOUBLE		FM03			G5 - TEMPERED	C3/A604	C3/A604			19	
C235A	CORRIDOR C2	CLASSROOM KINDERGARTEN	WD02	3' - 0"	7' - 0"		SINGLE			FM02			G5	A3/A604	A3/A604			01	
C235B		CLASSROOM KINDERGARTEN	PA01	3' - 0"	7' - 0"		SINGLE						-	B1/A645	D2/A645			AL05	
C236	RR	CLASSROOM KINDERGARTEN	WD01	3' - 0"	7' - 0"		SINGLE			FM02			G6	A2/A605	A2/A605			12	

DOOR SCHEDULE

MARK	NAME: TO ROOM (PULL SIDE)	NAME: FROM ROOM (PUSH SIDE)	DOOR							FRAME				DETAIL			GENERAL		
			TYPE	WIDTH	HEIGHT	FINISH	SNG	PR	GLS	TYPE	MATERIAL	FINISH	TRANSOM	HEAD	JAMB	SILL	LBL	HARDWARE	COMMENTS
C237	RR	CLASSROOM KINDERGARTEN	WD01	3' - 0"	7' - 0"		SINGLE			FM02			G6	A2/A605	A2/A605			12	
C238A	CORRIDOR C2	CLASSROOM KINDERGARTEN	WD02	3' - 0"	7' - 0"		SINGLE			FM02			G5	A3/A604	A3/A604			01	
C238B		CLASSROOM KINDERGARTEN	PA01	3' - 0"	7' - 0"		SINGLE						-	B1/A645	D2/A645			AL05	
C239A	CORRIDOR C2	CLASSROOM KINDERGARTEN	WD02	3' - 0"	7' - 0"		SINGLE			FM02			G5	A3/A604	A3/A604			01	
C239B		CLASSROOM KINDERGARTEN	PA01	3' - 0"	7' - 0"		SINGLE						-	B1/A645	D2/A645			AL05	
C240	RR	CLASSROOM KINDERGARTEN	WD01	3' - 0"	7' - 0"		SINGLE			FM02			G6	A2/A605	A2/A605			12	
C250A		ENTRY C2	PA01	3' - 0"	7' - 0"			DOUBLE						B4/A646	A5/A645			AL11	
C250B		ENTRY C2	PA01	3' - 0"	7' - 0"									B4/A646	A5/A645			AL01	
C250C	ENTRY C2	CORRIDOR C2	PA01	3' - 0"	7' - 0"									A1/645	D5/A645			AL14	
C250D	ENTRY C2	CORRIDOR C2	PA01	3' - 0"	7' - 0"									A1/A645	D5/A645			AL06	
C251	STORAGE	CORRIDOR C2	WD01	3' - 6"	7' - 0"		SINGLE			FM02			G6	A3/A605	A3/A605			13	
C252E	MULTIPURPOSE ROOM	DISHWASH	OVERHEAD DOOR	4' - 0"	8' - 0"								-	E5/A605;E4/A605	D5/A605	B5/A605		OH01	
C253	MULTIPURPOSE ROOM	STORAGE	HM01	3' - 6"	7' - 0"		SINGLE			FM02			G5 - TEMPERED	C3/A604	C3/A604			13	
C254	OFFICE	KITCHEN	HM01	3' - 0"	7' - 0"					FM02			G5	E1/A604	E1/A604			05	
C255	RR	KITCHEN LOCKER	HM01	3' - 0"	7' - 0"		SINGLE			FM02			G6	A1/A604	A1/A604			12	
C256	DRY STORAGE	KITCHEN	HM01	3' - 0"	7' - 0"		SINGLE			FM02			G5	A1/A604	A1/A604			08	

Grand total: 115

GENERAL NOTES - DOOR SCHEDULE

1. DUE TO MULTIPLE USE, SOME OF THE DETAILS REFERRED TO ON THE DOOR SCHEDULE ARE REVERSED AND/OR TURNED FROM THE DIRECTION SHOWN ON THE FLOOR PLAN. THE GENERAL INTENT OF THE DETAILS SHALL IN ALL CASES BE FOLLOWED AND THE ARCHITECT CONSULTED SHOULD QUESTIONS ARISE.
2. DOORS TO BE SET TO CLEAR FINISHED FLOOR SURFACE BY 1/2".
3. FIELD VERIFY ALL OPENING DIMENSIONS AND CONDITIONS PRIOR TO SHOP DRAWING SUBMITTAL & SUBSEQUENT FABRICATION OF ALL DOOR AND WINDOW FRAMES.
4. GLASS IN HOLLOW METAL FRAMES SHALL BE ON NON-CORRIDOR SIDE, REFER TO GLAZING TYPES IN SPECIFICATIONS FOR DETAIL DESCRIPTIONS.

FINISH SYMBOL LEGEND

CH01 CHAMPFER CORNER, SINGLE; REFER TO DETAIL E2/A101b.
CH02 CHAMPFER CORNER, DOUBLE; REFER TO DETAIL E3/A101b

CG01 CORNER GUARD, SINGLE.
CG02 CORNER GUARD, DOUBLE.
CG03 DECORATIVE CORNER GUARD.

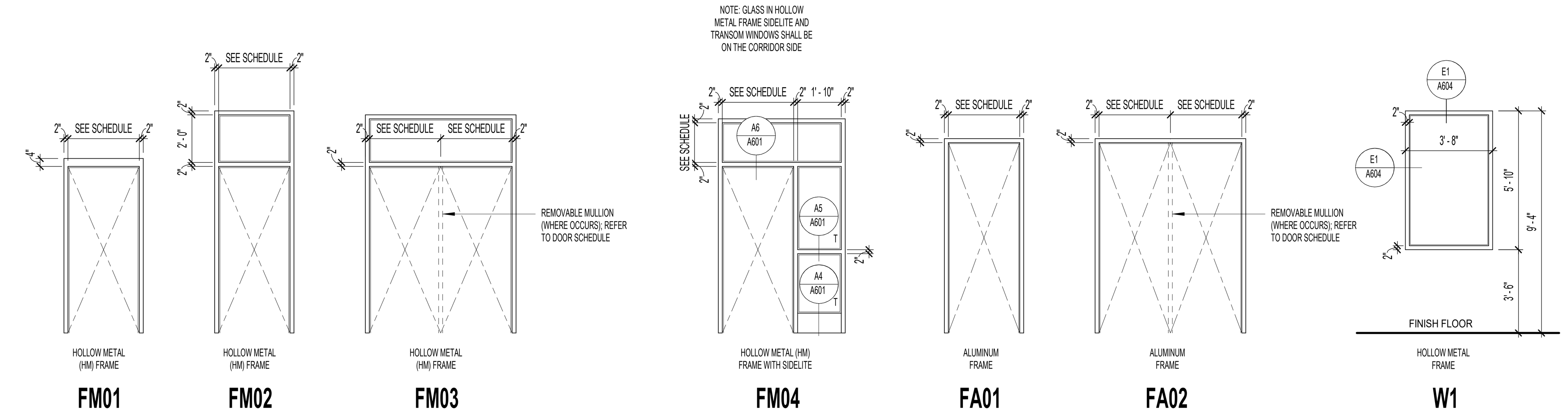
CJ CONTROL JOINT; REFER TO STRUCTURAL DRAWINGS.

TH01 THRESHOLD-ENTRANCE, FLAT; REFER TO DETAILS ON SHEET A620 AND FINISH SCHEDULE.
TH02 THRESHOLD, FLAT; REFER TO DETAILS ON SHEET A620 AND FINISH SCHEDULE.
TH03 THRESHOLD; REFER TO DETAILS ON SHEET A620 AND FINISH SCHEDULE.

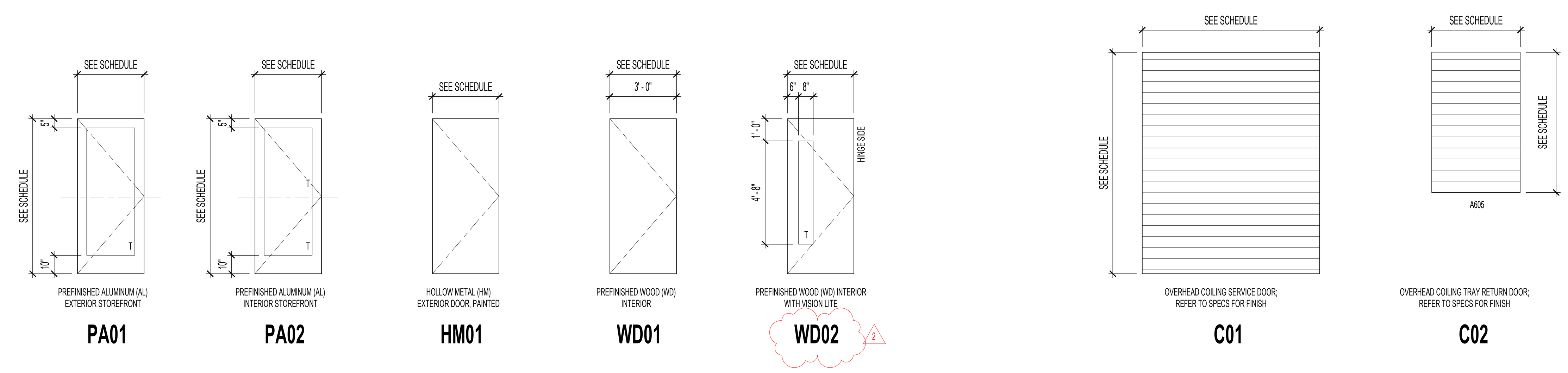
GLAZING FINISH

G1 1" INSULATED GLASS UNIT - CLEAR, LOW-E
G2 1" INSULATED GLASS UNIT - SPANDERAL, LOW-E - COLOR #1
G3 1" INSULATED GLASS WITH SAFETY FILM - CLEAR, LOW-E
G4 1/4" GLASS WITH SAFETY FILM - CLEAR
G5 1/4" FLOAT GLASS - CLEAR
G6 1/4" FLOAT GLASS - ACID ETCHED
G7 3/16" FLOAT GLASS - 20-90 MINUTE FIRE RATING
G8 1/2" SOUND RATED GLAZING, TRANSOM WINDOW AT BAND ROOM

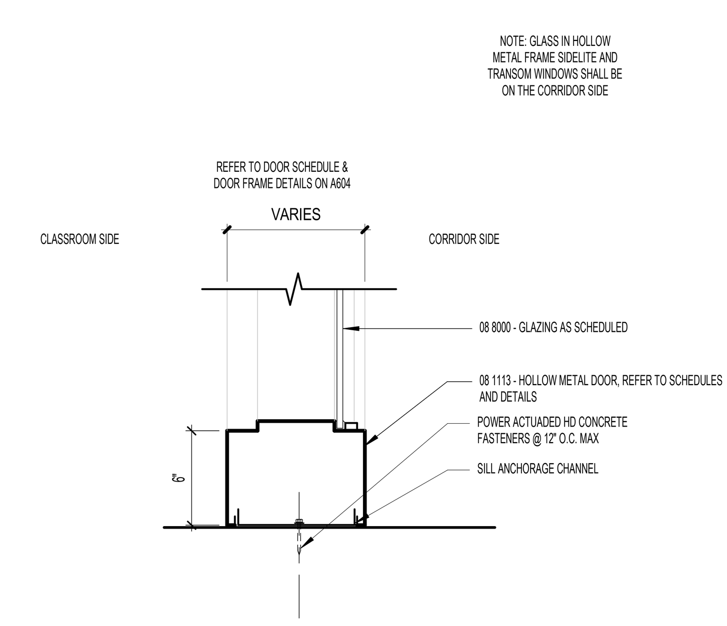
SB SHADOW BOX, REFER TO OPENING ELEVATIONS & DETAILS
T TEMPERED, SAFETY GLASS



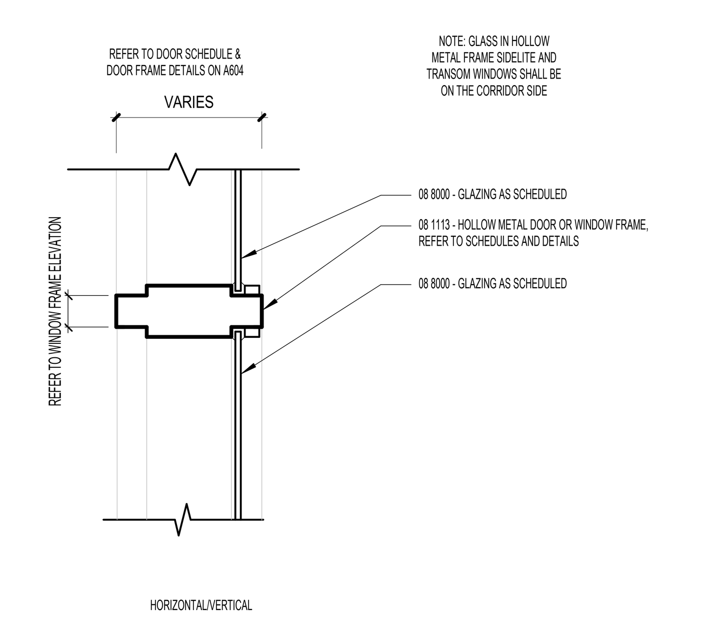
DOOR FRAME ELEVATIONS
1/4" = 1'-0"



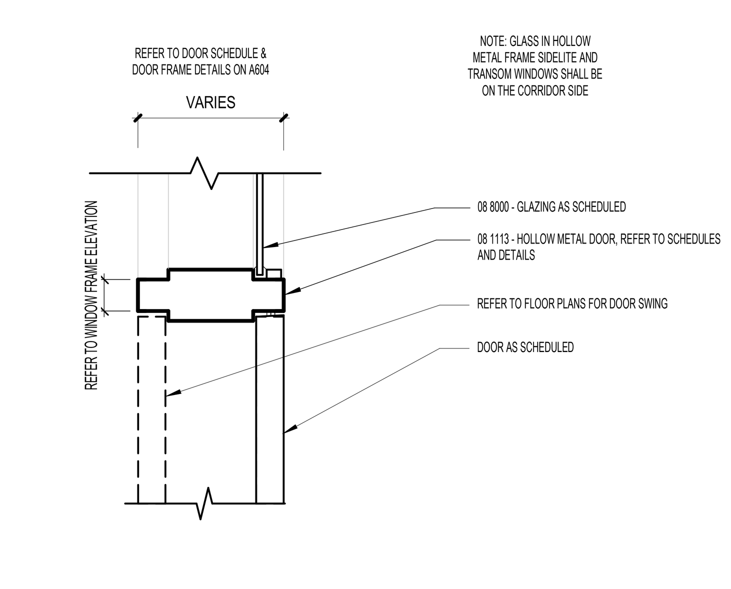
DOOR PANEL ELEVATIONS
1/4" = 1'-0"



A4 A601 SIDELITE SILL DETAIL
1 1/2" = 1'-0"



A5 A601 INTERIOR MULLION DETAIL
1 1/2" = 1'-0"



A6 A601 TRANSOM AND DOOR MULLION DETAIL
1 1/2" = 1'-0"

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CACHE COUNTY SCHOOL DISTRICT

HYDE PARK ELEMENTARY SCHOOL
333 EAST 300 NORTH
HYDE PARK CITY, UT
84318

DRAWING ISSUE	BID SET
ISSUE DATE	03/25/2025
NWL PROJECT	0119.002

STATE OF UTAH
NAYLOR WENTWORTH LUND ARCHITECTS
#319164
#183992
#7247356
LICENSED ARCHITECT

	DATE	REVISION
1	04/01/2025	ADDENDUM 2
2	4/8/2025	ADDENDUM 3

DOOR SCHEDULE & HARDWARE

A601

GLAZING FINISH

	G1	1" INSULATED GLASS UNIT - CLEAR, LOW-E
	G2	1" INSULATED GLASS UNIT - SPANDERAL, LOW-E - COLOR #1
2	G3	1" INSULATED GLASS WITH SAFETY FILM - CLEAR, LOW-E
2	G4	1/4" GLASS WITH SAFETY FILM - CLEAR
2	G5	1/4" FLOAT GLASS - CLEAR
	G6	1/4" FLOAT GLASS - ACID ETCHED
	G7	3/16" FLOAT GLASS - 20-90 MINUTE FIRE RATING
	G8	1/2" SOUND RATED GLAZING, TRANSOM WINDOW AT BAND ROOM
	S8	SHADOW BOX, REFER TO OPENING ELEVATIONS & DETAILS
	T	TEMPERED, SAFETY GLASS

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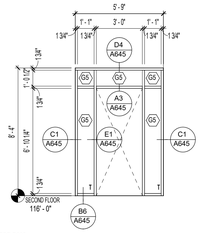
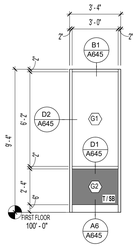
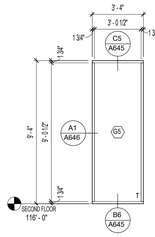
architects



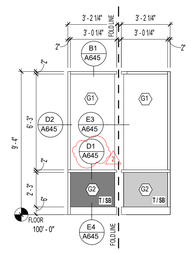
S20 - READING FACILITATOR B202
1/4" = 1'-0"



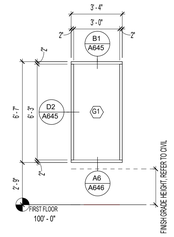
S21 - TYPICAL CLASSROOM WINDOW
1/4" = 1'-0"



S22 - MULTIPURPOSE A225
1/4" = 1'-0"

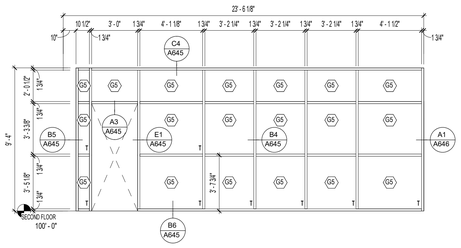


S23 - CORNER WINDOW
1/4" = 1'-0"

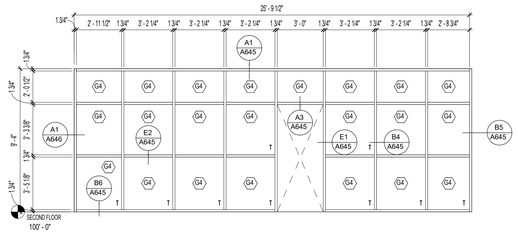


S24 - TYPICAL EAST CLASSROOM
1/4" = 1'-0"

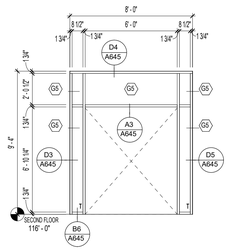
E



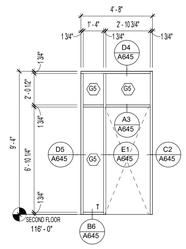
S14 - ADMIN WAITING A101
1/4" = 1'-0"



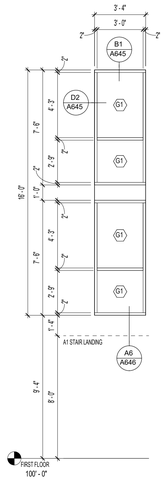
S16 - ADMIN WAITING A101
1/4" = 1'-0"



S18 - MEDIA CENTER A203
1/4" = 1'-0"

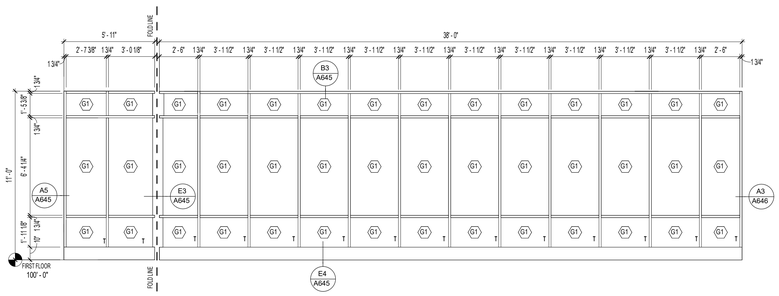


S19 - MEDIA CENTER A203
1/4" = 1'-0"

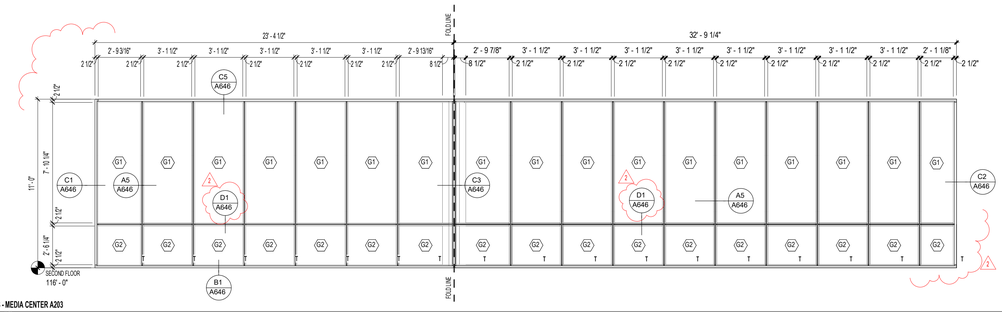


S17 - STAIR A1 ST2
1/4" = 1'-0"

D

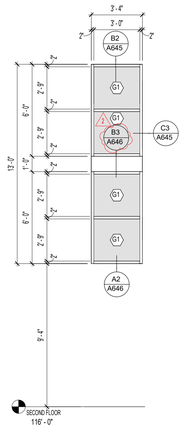


S12 - ADMIN BREAKROOM A109
1/4" = 1'-0"

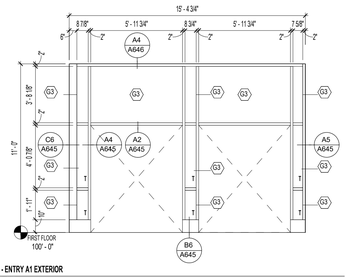


C13 - MEDIA CENTER A203
1/4" = 1'-0"

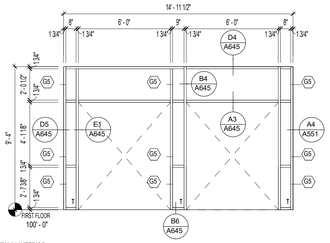
C



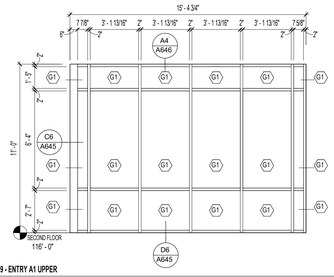
S10 - MULTIPURPOSE A225
1/4" = 1'-0"



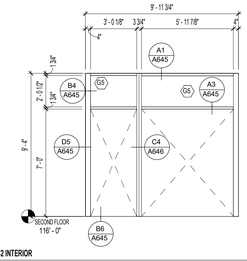
S7 - ENTRY A1 EXTERIOR
1/4" = 1'-0"



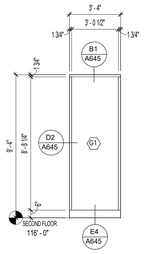
S8 - ENTRY A1 INTERIOR
1/4" = 1'-0"



S9 - ENTRY A1 UPPER
1/4" = 1'-0"

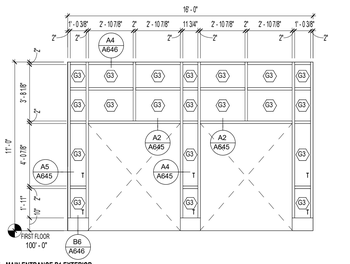


S11 - ENTRY C2 INTERIOR
1/4" = 1'-0"

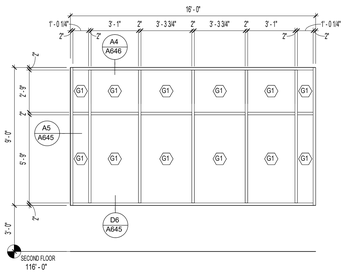


S25 - STAIR A1 ST2
1/4" = 1'-0"

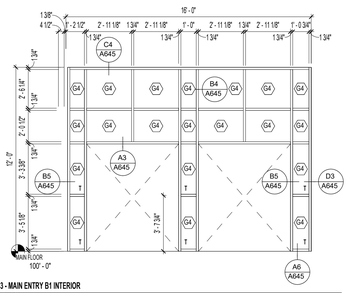
B



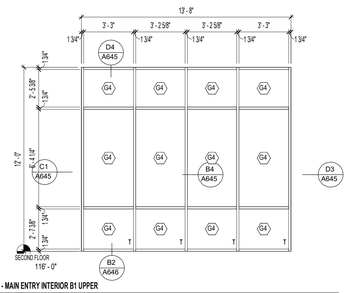
S1 - MAIN ENTRANCE B1 EXTERIOR
1/4" = 1'-0"



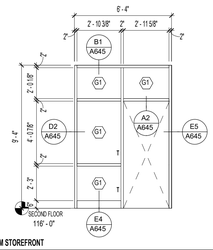
S2 - MAIN ENTRANCE EXTERIOR B1 UPPER
1/4" = 1'-0"



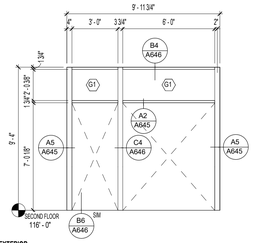
S3 - MAIN ENTRY B1 INTERIOR
1/4" = 1'-0"



S4 - MAIN ENTRY INTERIOR B1 UPPER
1/4" = 1'-0"



S5 - TYPICAL CLASSROOM STOREFRONT
1/4" = 1'-0"



S6 - ENTRY C2 EXTERIOR
1/4" = 1'-0"

A

1 2 3 4 5 6

CACHE COUNTY SCHOOL DISTRICT

HYDE PARK ELEMENTARY SCHOOL
333 EAST 300 NORTH
HYDE PARK CITY, UT
84318

DRAWING ISSUE	
ISSUE DATE	BID SET 03/25/2025
NWL PROJECT	01/15/202

STATE OF UTAH
NAYLOR WENTWORTH LUND ARCHITECTS
#319164
#183992
#7247356
LICENSED ARCHITECT

	DATE	REVISION
2	4/8/2025	ADDENDUM 3

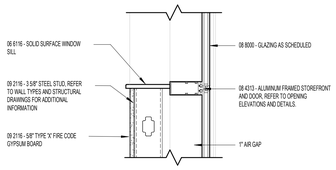
STOREFRONT ELEVATIONS

A641

naylor wentworth lund
architects

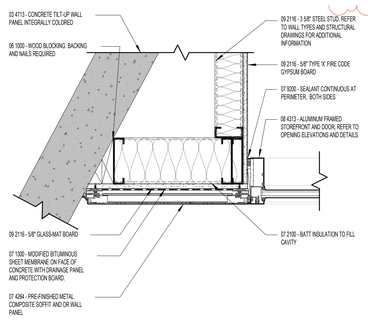
CACHE COUNTY
SCHOOL DISTRICT

E

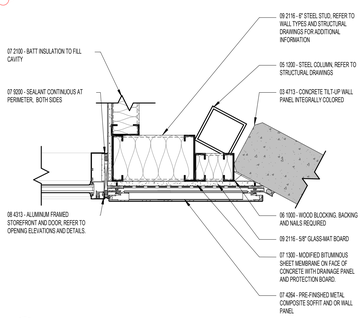


D1 / A646 **STOREFRONT HEAD MULLION DETAIL**
1 1/2" = 1'-0"

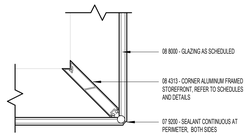
D



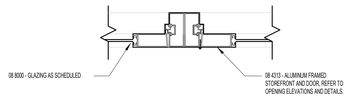
C1 / A646 **STOREFRONT CORNER MULLION DETAIL**
1 1/2" = 1'-0"



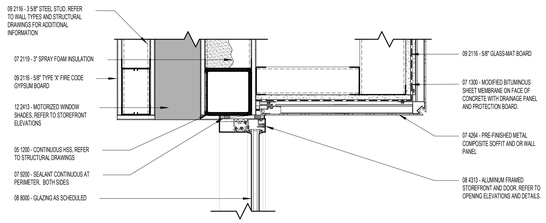
C2 / A646 **STOREFRONT CORNER MULLION DETAIL**
1 1/2" = 1'-0"



C3 / A646 **STOREFRONT JAMB DETAIL**
1 1/2" = 1'-0"

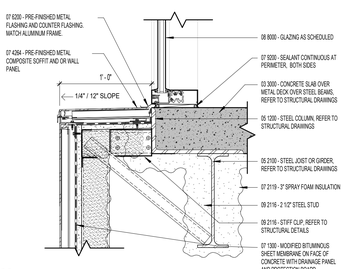


C4 / A646 **STOREFRONT CORNER MULLION DETAIL**
1 1/2" = 1'-0"

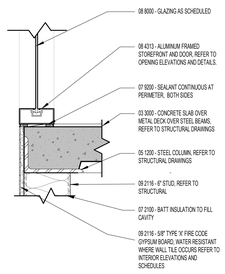


C5 / A646 **STOREFRONT CORNER MULLION DETAIL**
1 1/2" = 1'-0"

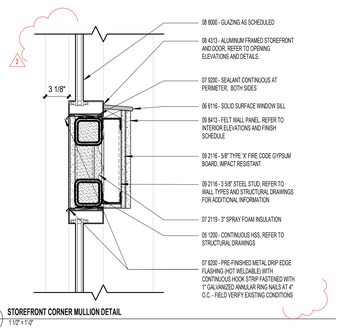
C



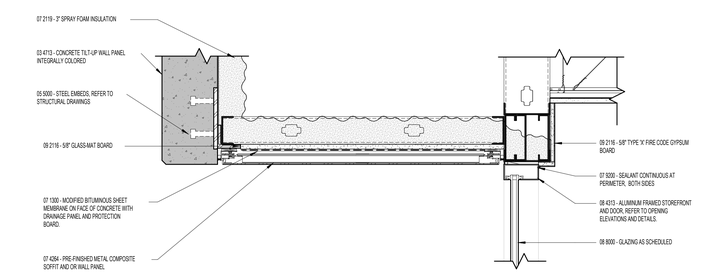
B1 / A646 **STOREFRONT CORNER MULLION DETAIL**
1 1/2" = 1'-0"



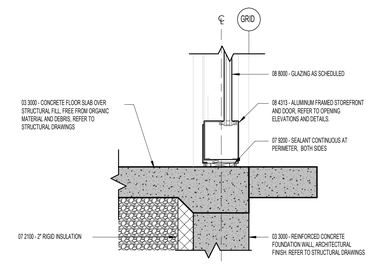
B2 / A646 **STOREFRONT CORNER MULLION DETAIL**
1 1/2" = 1'-0"



B3 / A646 **STOREFRONT CORNER MULLION DETAIL**
1 1/2" = 1'-0"

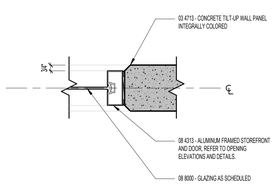


B4 / A646 **STOREFRONT CORNER MULLION DETAIL**
1 1/2" = 1'-0"

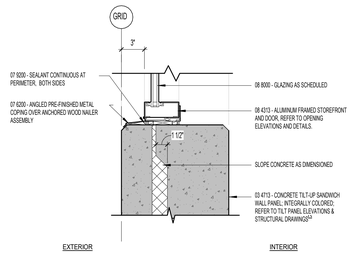


B6 / A646 **STOREFRONT SILL DETAIL**
1 1/2" = 1'-0"

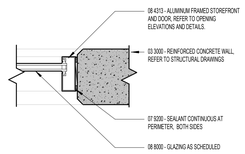
B



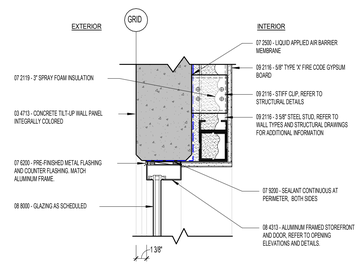
A1 / A646 **STOREFRONT CORNER MULLION DETAIL**
1 1/2" = 1'-0"



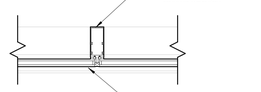
A2 / A646 **STOREFRONT SILL DETAIL**
1 1/2" = 1'-0"



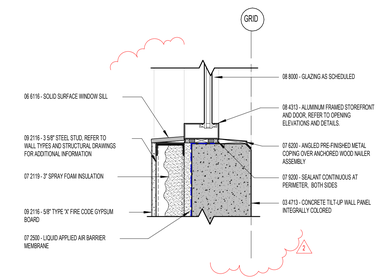
A3 / A646 **STOREFRONT CORNER MULLION DETAIL**
1 1/2" = 1'-0"



A4 / A646 **STOREFRONT HEAD DETAIL**
1 1/2" = 1'-0"



A5 / A646 **STOREFRONT CORNER MULLION DETAIL**
1 1/2" = 1'-0"



A6 / A646 **STOREFRONT SILL DETAIL**
1 1/2" = 1'-0"

HYDE PARK ELEMENTARY SCHOOL
333 EAST 300 NORTH
HYDE PARK CITY, UT
84318

DRAWING ISSUE	BID SET
ISSUE DATE	03/25/2025
NWL PROJECT	0118.002

STATE OF UTAH
NAYLOR WENTWORTH LUND ARCHITECTS
#319164
#183992
#7247356
LICENSED ARCHITECT

	DATE	REVISION
2	4/8/2025	ADDENDUM 3

STOREFRONT DETAILS

A646

FINISH LEGEND - FLOOR FINISHES

XXX

TYPE	MANUFACTURER	MODEL	COLOR	GROUT	COMMENTS
FLOOR CARPET					
FC1	TARKETT	COLOR KNIT 11128	EUCALYPTUS LEAF (30218)	NA	CLASSROOMS. CARPET BASE TO MATCH
FC2	TARKETT	CUSTOM COLOR	115409498-50	NA	CORRIDOR, ADMINISTRATION, MEDIA CENTER AND PUBLIC AREAS
FC3	MOHAWK	STEP UP II GT3311	COBALT (955)	NA	ENTRY CARPET AT VESTIBULES
FC4	TARKETT	PLEXUS IMAGINATIONS	WHITE	NA	MUSIC CLASSROOM PIANO AND MUSIC BAR PATTERN
FC5	TARKETT	PLEXUS COLOURS IV GB875	DARK SHADOWS (18552)	NA	MUSIC CLASSROOM PIANO AND MUSIC BAR PATTERN
FLOOR CONCRETE EXPOSED					
FE1	-	-	SEALER	NA	STORAGE , MECH, IDF, CUSTODIAL. REFER TO SPEC. 09 9724.
FLOOR LVT					
FL1	MOHAWK	MEDELLA FLECK & HUES	FOG (84982), SAGE (H3362), DEEP GREY (H3302), STEEL LIGHT (H5328)	NA	MULTI-PURPOSE. ART CLASSROOM, STAGE. REFER TO SHEET A1101 FOR COLOR ASSIGNMENT
FLOOR TILE					
FT1	DALTILE	KEYSTONE MEDLEY	MOONSTONE (D117) 50%, CYPRESS (D452) 25%, SPA (D148) 25%	G4	TYP. BATHROOM
FT2	DALTILE	QUARRY TEXTURES	ASHEN GREY (0703)	G3	KITCHEN

FINISH LEGEND - WALL FINISHES

XXX

TYPE	MANUFACTURER	MODEL	COLOR	GROUT	COMMENTS
WALL EXPOSED					
TP1	-	-	SEALER	NA	MAIN STAIR, MULTI-PURPOSE. REFER TO SPEC. 09 9724.
WH1	-	-	SEALER	NA	UNDER STAIR S1 AND FRONT OF STAGE. REFER TO SPEC. 07 2025
WALL FELT					
WF1	ONNIT SYSTEMS	-	GRAPHITE	NA	CLASSROOM
WF2	ONNIT SYSTEMS	-	ELEPHANT GRAY	NA	CORRIDORS AND MULTI-PURPOSE
WALL GRAPHIC					
VWC	-	-	-	NA	CUSTOM GRAPHIC TO BE DETERMINED BY ARCHITECT.
WALL METAL					
WM	-	-	STAINLESS STEEL	NA	ELEVATOR, STAINLESS STEEL PANELS
WALL PAINT					
WP1	SHERWIN WILLIAMS	WHITE PAINT COLORS	PURE WHITE (7005)	NA	GYPSUM
WP2	SHERWIN WILLIAMS	WHITE PAINT COLORS	PURE WHITE (7005)		GYPSUM, KITCHEN OFFICE, CUSTODIAL, STORAGE
WP3	SHERWIN WILLIAMS	WHITE PAINT COLORS	PURE WHITE (7005)	NA	CMU AND CONCRETE. STORAGE, MECH., IDF, ELEC., AND CUSTODIAL
WP4	SHERWIN WILLIAMS	TOP 50 COLORS	IRON ORE (7069)	NA	CMU AND CONCRETE. STAGE
WP5	SHERWIN WILLIAMS	TOP-50 COLORS	IRON ORE (7069)	NA	METAL
WALL TILE					
WT1	DALTILE	COLOR STORY PINSTRIPES WAVE CREST & FLUTED	TRANQUILITY (0059) & STABLE (0055)	G2	GROUP RESTROOMS. FIELD COLOR IS STABLE (0055) REFER TO INTERIOR ELEVATION FOR LOCATION OF ACCENT WALL. TRANQUILITY (0059)
WT2	DALTILE	CLASSIC COLOR WHEEL	WHITE (0100), SPA (0148),GARDEN SPOT (0141)	G1	KINDER BATHRROOM
WT3	DALTILE	CLASSIC COLOR WHEEL	WHITE (0100)	G1	CUSTODIAL
WT4	DALTILE	VOLUME 1.0	VAPOR (VL63)	G1	CORRIDORS
WT5	DALTILE	COLOR STORY PINSTRIPES FLUTED	ICE WHITE (0025) 55% & BALANCE (0014) 30% TRANQUILITY (0059) 20%	G1	ENTRY
WT6	DALTILE	CLASSIC COLOR WHEEL	WHITE (0100), SPA (0148)	G1	KITCHEN, GRADIANTE OF TILE BOTTOM TO TOP IN ORDER OF SPA, WHITE

FINISH LEGEND - COUNTER

XXX

TYPE	MANUFACTURER	MODEL	COLOR	COMMENTS
COUNTER				
PL1	WILSONART	LAMINATE	BEIGE PAMPAS (4170)	CLASSROOM
SS1	CORIAN SOLID SURFACE	-	ARTISTA CANVAS	ADMIN, MULTI-PURPOSE
SS2	CORIAN SOLID SURFACE	-	WHITE JASMINE	CLASSROOM WINDOW SILL

FINISH LEGEND - STAIR

XXX

TYPE	MANUFACTURER	MODEL	COLOR	COMMENTS
SC1	-	-	SEALER	MAIN STAIRCASE. REFER TO SPEC. 03 4500.
SR1	ROPPE	VANTAGE RAISED CIRCULAR #96		NORTH STAIRCASE. REFER TO 05 5500

FINISH LEGEND - GROUT

XXX

TYPE	MANUFACTURER	MODEL	COLOR	COMMENTS
G1	MAPEI	GROUT AND CAULK COLOR COLLECTIONS	ALABASTER (5001)	WALL FINISHES, WT2, WT3, WT4, WT5, WT6
G2	MAPEI	GROUT AND CAULK COLOR COLLECTIONS	BISCUIT (5014)	WALL FINISHES, WT1
G3	MAPEI	GROUT AND CAULK COLOR COLLECTIONS	SAHARA BEIGE (5011)	FLOOR FINISHES, FT2
G4	MAPEI	GROUT AND CAULK COLOR COLLECTIONS	PEWTER (5002)	FLOOR FINISHES, FT1

FINISH LEGEND - BASE

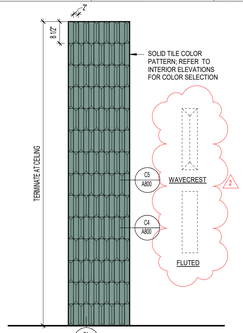
XXX

TYPE	MANUFACTURER	MODEL	COLOR	COMMENTS
BASE				
B1	TARKETT	-	-	CARPET BASE TO MATCH CARPET
B2	MOHAWK	WALL BASE	AIRCRAFT CARRIER (073)	STORAGE , MECH, IDF, ART CLASSROOM, CUSTODIAL, STAGE, MULTI-PURPOSE, ENTRY VESTIBULES
B3	DALTILE	QUARRY TEXTURES	ASHEN GREY (0703)	KITCHEN

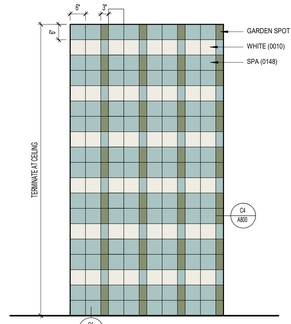
FINISH LEGEND - CEILING FINISHES

XXX

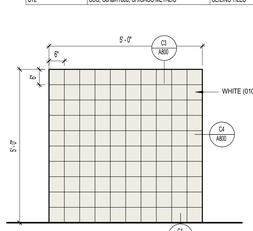
TYPE	MANUFACTURER	MODEL	COLOR	COMMENTS
CEILING				
CF1	ONNIT SYSTEMS	HANGING BAFFLES		MEDIA CENTER, MAIN STAIR SECOND FLOOR
CM1	ALFREX	2 COAT MICA	COPPER PENNY MICA (JY-2570)	EXTERIOR SOFFIT
CM2	ROLLFAB METAL	WOOD GRAIN FINISHES	LONG GRAIN HICKORY	MEDIA CENTER CANOPY
CP1	SHERMAN WILLIAMS	WHITE PAINT COLORS	WHITE (SW 750)	ENTRY WAYS, ADMIN RECEPTION, BATHROOMS
CP2	SHERMAN WILLIAMS	WHITE PAINT COLORS	WHITE (SW 750)	UNDER STAIRS
CP3	SHERMAN WILLIAMS	TOP 50 COLORS	IRON ORE (7069)	EXPOSED CEILING, STRUCTURE, AND MECHANICAL
CT1	ROCKFON	CEILING TILES	ARTIC	MINERAL FIBER. CLASSROOMS, HALLS, AND ADMIN AREAS
CT2	USG, Certain Teed, CHICAGO METALIC	CEILING TILES	WHITE	VINYL FACED GYP. KITCHEN



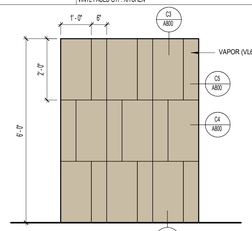
D1 A800 **WT1 TILE PATTERN**
1/2" = 1'-0"



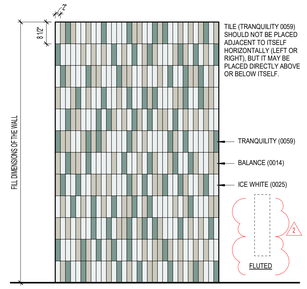
D2 A800 **WT2 TILE PATTERN**
1/2" = 1'-0"



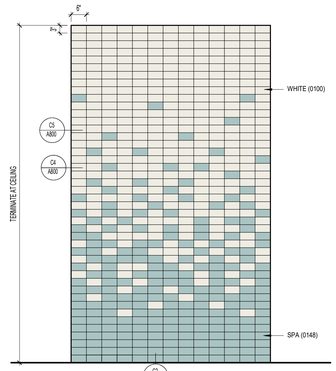
D3 A800 **WT3 TILE PATTERN**
1/2" = 1'-0"



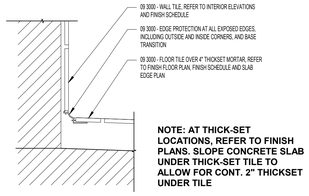
D4 A800 **WT4 TILE PATTERN**
1/2" = 1'-0"



D5 A800 **WT5 TILE PATTERN**
1/2" = 1'-0"

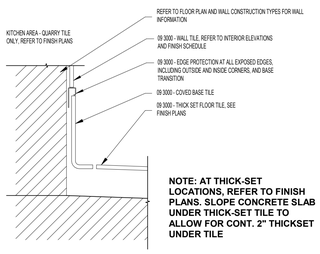


D6 A800 **WT6 TILE PATTERN**
1/2" = 1'-0"



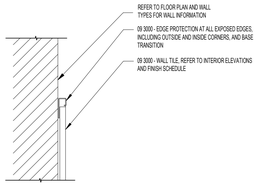
NOTE: AT THICK-SET LOCATIONS, REFER TO FINISH PLANS. SLOPE CONCRETE SLAB UNDER THICK-SET TILE TO ALLOW FOR CONT. 2" THICKSET UNDER TILE

C1 A800 **EDGE PROTECTION - FLOOR TO WALL TILE TRANSITION**
1/4" = 1'-0"

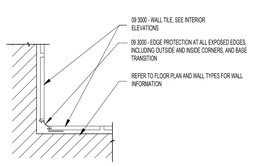


NOTE: AT THICK-SET LOCATIONS, REFER TO FINISH PLANS. SLOPE CONCRETE SLAB UNDER THICK-SET TILE TO ALLOW FOR CONT. 2" THICKSET UNDER TILE

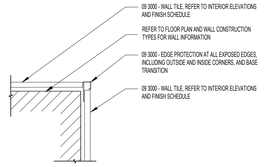
C2 A800 **EDGE PROTECTION - TOP OF QUARRY TILE BASE**
1/4" = 1'-0"



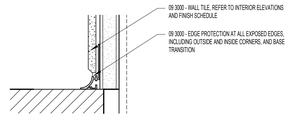
C3 A800 **EDGE PROTECTION - TOP OF TILE**
1/4" = 1'-0"



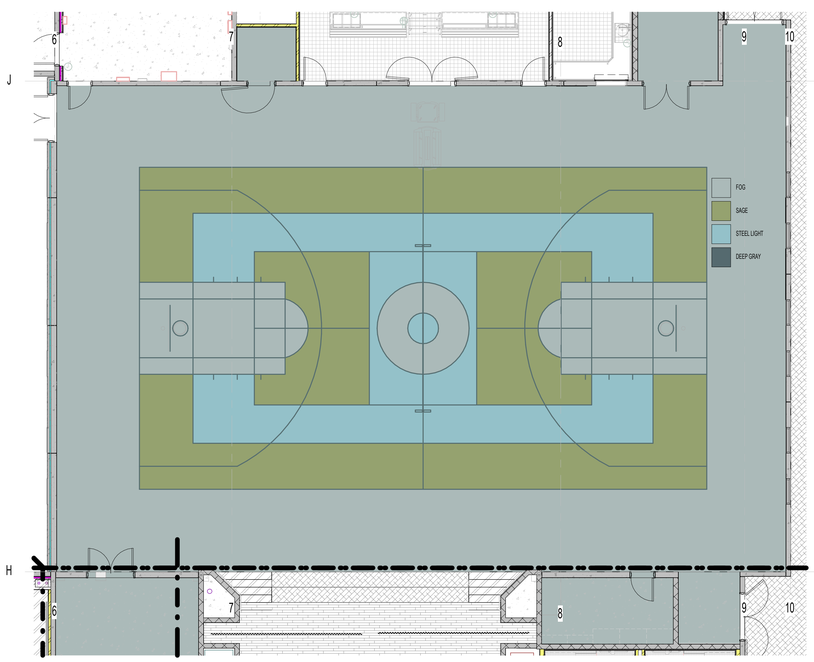
C4 A800 **EDGE PROTECTION - INSIDE EDGE**
1/4" = 1'-0"



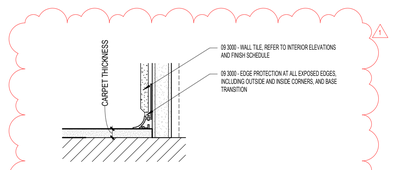
C5 A800 **EDGE PROTECTION - OUTSIDE EDGE**
1/4" = 1'-0"



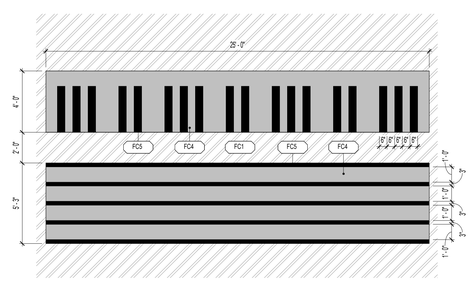
C6 A800 **EDGE PROTECTION - INSIDE CORNER - TILE TO NON TILE**
6" = 1'-0"



A1 A800 **ENLARGED MULTIPURPOSE ROOM**
1/8" = 1'-0"



B4 A800 **EDGE PROTECTION - CARPET TO TILE TRANSITION**
6" = 1'-0"



A4 A800 **MUSIC ROOM PIANO MUSIC PATTERN**
1/4" = 1'-0"

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CACHE COUNTY SCHOOL DISTRICT

HYDE PARK ELEMENTARY SCHOOL
153 EAST 300 NORTH
HYDE PARK, UTAH 84318

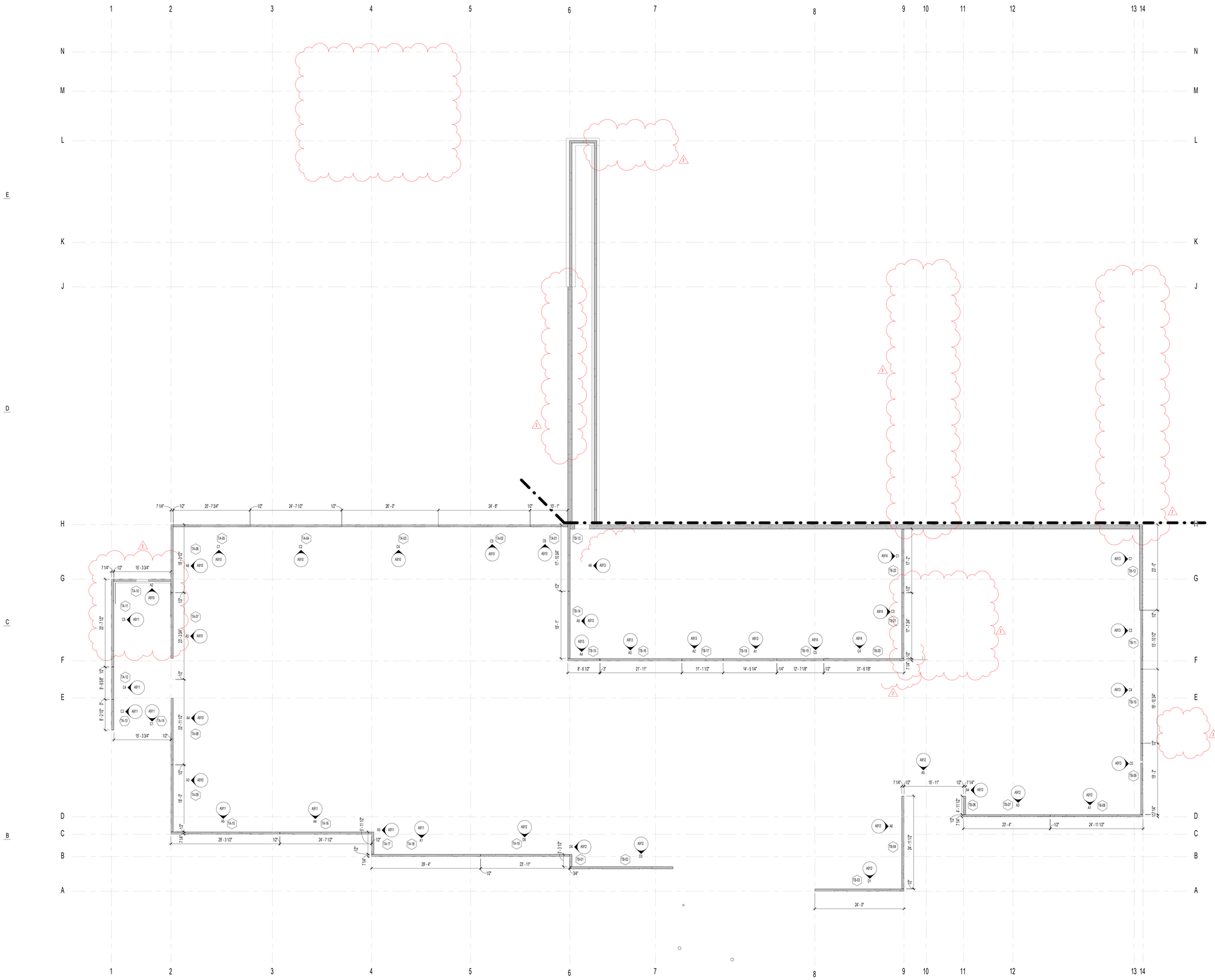
DRAWING ISSUE	BID SET
ISSUE DATE	03/25/2025
NWL PROJECT	0118.002

STATE OF UTAH — NAYLOR WENTWORTH LUND ARCHITECTS #319164 #183992 #7247356 — LICENSED ARCHITECT

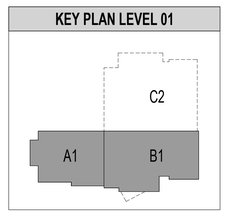
	DATE	REVISION
1	04/01/2025	ADDENDUM 2
2	4/8/2025	ADDENDUM 3

INTERIOR FINISH

A800



1 LEVEL 01 TILT UP CONCRETE PANELS
A901 1" = 10'-0"



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architects

CACHE COUNTY
SCHOOL DISTRICT

HYDE PARK ELEMENTARY SCHOOL
333 EAST 300 NORTH
HYDE PARK CITY, UT
84318

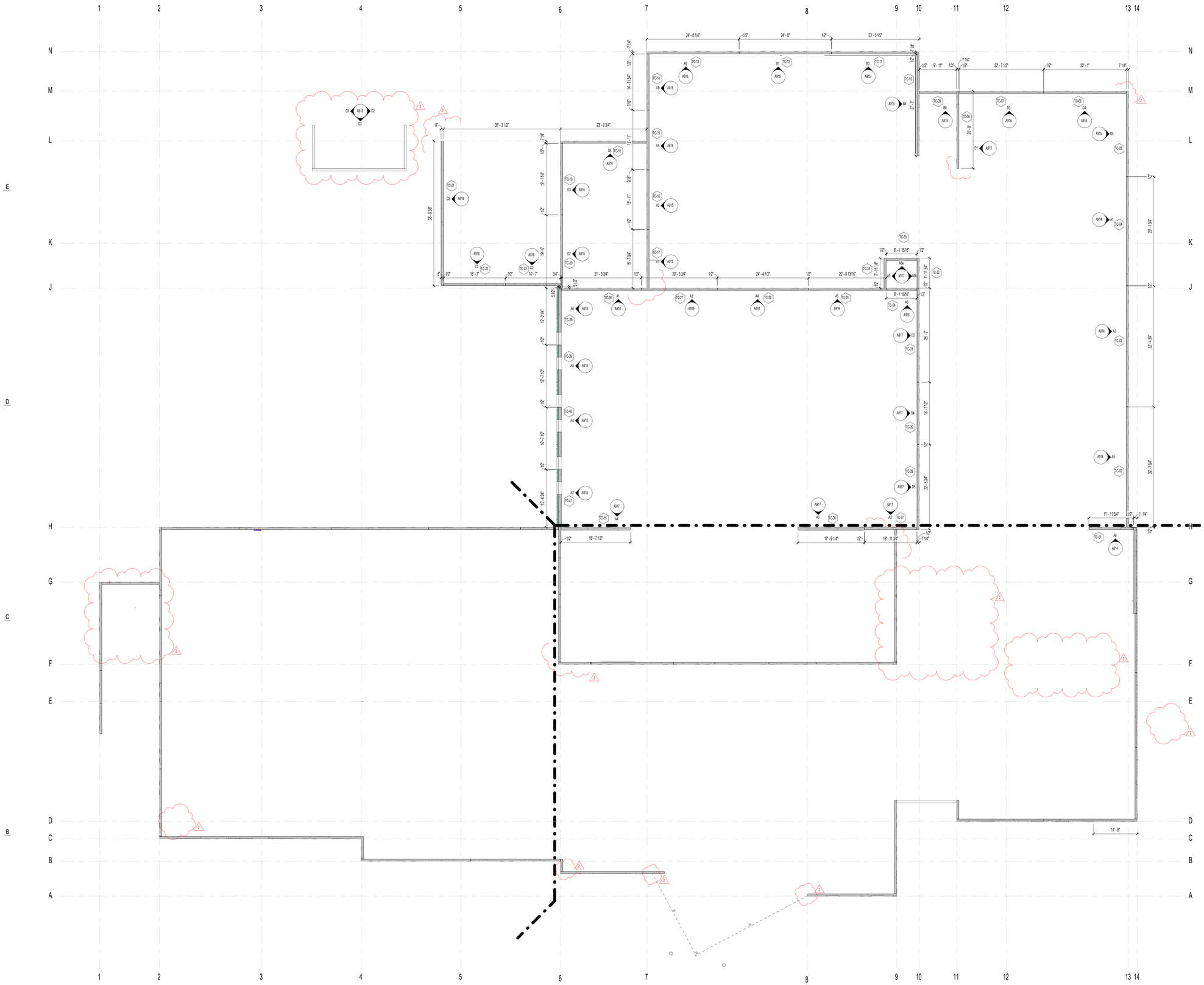
DRAWING ISSUE	BID SET
ISSUE DATE	03/25/2025
NWL PROJECT	0119.002

STATE OF UTAH
NAYLOR WENTWORTH LUND ARCHITECTS
#319164
#183992
#7247356
LICENSED ARCHITECT

	DATE	REVISION
2	4/8/2025	ADDENDUM 3

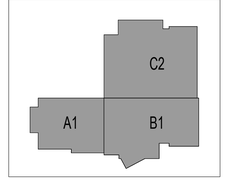
OVERALL LEVEL 01
TILT UP PANEL PLAN

A901



1 A902 LEVEL 02 TILT UP CONCRETE PANELS
1" = 10'-0"

KEY PLAN LEVEL 02



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STATE OF UTAH
NAYLOR WENTWORTH LUND ARCHITECTS
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2	4/8/2025	ADDENDUM 3

OVERALL LEVEL 02
TILT UP PANEL PLAN

A902

TILT-UP WALL PANEL LEGEND

X"	
7 1/4"	7 1/4" CONCRETE TILT-UP PANEL; REFER TO TILT-UP PANEL ELEVATIONS, SPECIFICATIONS, AND STRUCTURAL DRAWINGS.
9"	9" CONCRETE TILT-UP SANDWICH PANEL: 9" CONCRETE STRUCTURE TILT-UP PANEL, 2" RIGID INSULATION, 4" CONCRETE VENEER; REFER TO TILT-UP PANEL ELEVATIONS, SPECIFICATIONS, AND STRUCTURAL DRAWINGS.
9 1/4"	9 1/4" CONCRETE TILT-UP PANEL; REFER TO TILT-UP PANEL ELEVATIONS, SPECIFICATIONS, AND STRUCTURAL DRAWINGS.
14"	14" CONCRETE TILT-UP PANEL; REFER TO TILT-UP PANEL ELEVATIONS, SPECIFICATIONS, AND STRUCTURAL DRAWINGS.
X	CONCRETE TILT-UP SANDWICH PANEL: 2" RIGID INSULATION, 4" CONCRETE VENEER; REFER TO TILT-UP PANEL ELEVATIONS, SPECIFICATIONS, AND STRUCTURAL DRAWINGS.
SH/	CONCRETE TILT-UP SANDWICH PANEL: SANDWICH PANEL BEGINS ABOVE ROOF LINE, 2" RIGID INSULATION, 4" CONCRETE VENEER; REFER TO TILT-UP PANEL ELEVATIONS, SPECIFICATIONS, AND STRUCTURAL DRAWINGS.

NWL-LEGEND - KEYNOTE

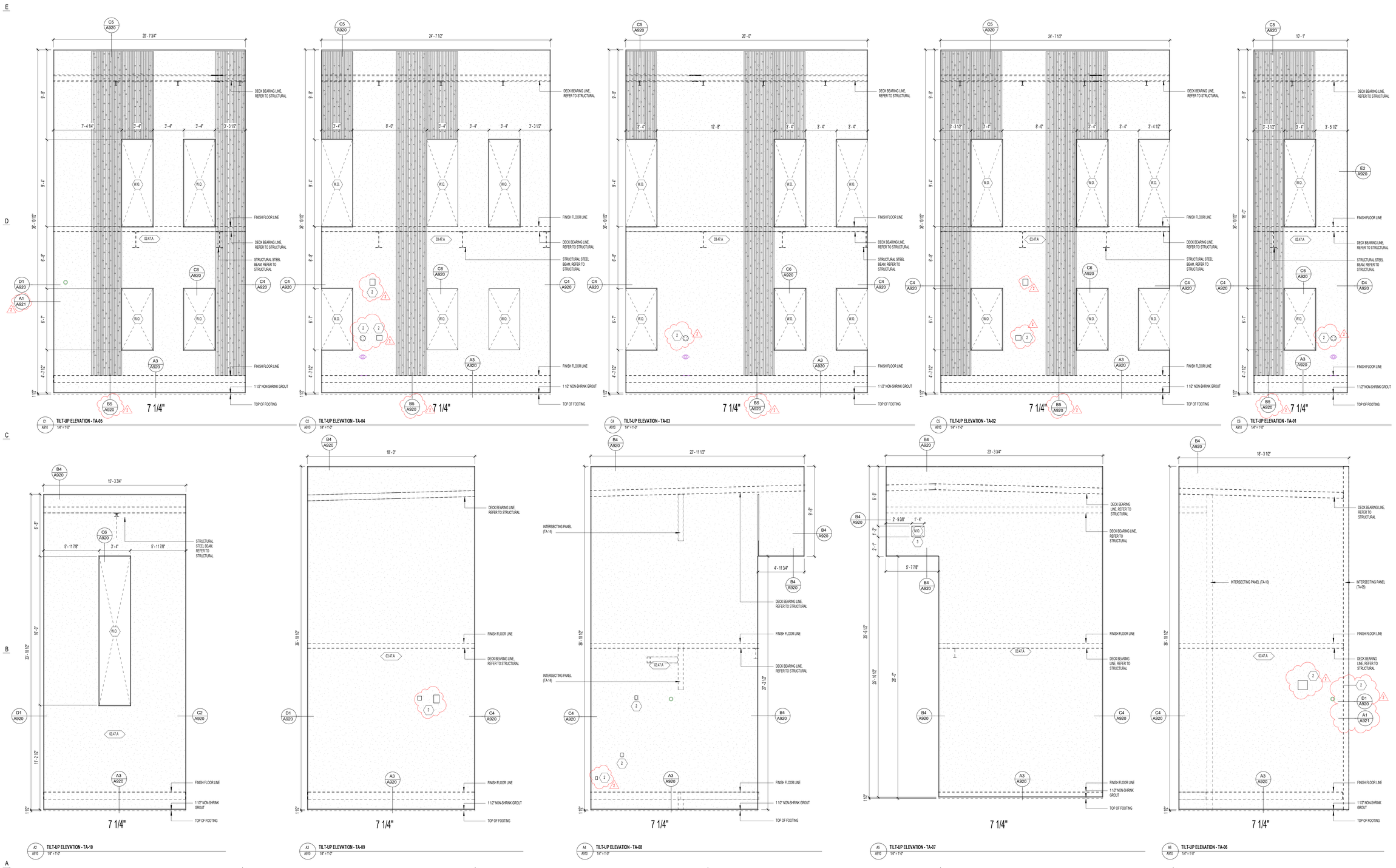
KEY VALUE	NOTE
03.47.A	03 4713 - CONCRETE TILT-UP WALL PANEL INTEGRALLY COLORED

GENERAL NOTES - TILT-UP ELEVATION

1. REFERENCE B6/ A925 FOR FORMLINER REVEAL DETAILS AND TILT-UP PANEL REVEALS.
2. ALL PIPE PENETRATIONS IN PANELS TO BE COORDINATED WITH PLUMBING AND ELECTRICAL DRAWINGS. FINAL COORDINATION WITH PLUMBING AND ELECTRICAL CONTRACTOR REQUIRED. PROVIDE FLAT SURFACE FOR CORPORANTE WITHIN FORMLINER.
3. ALL MECHANICAL OPENINGS IN PANELS TO BE COORDINATED WITH MECHANICAL DRAWINGS. FINAL COORDINATION WITH MECHANICAL CONTRACTOR REQUIRED.
4. REFERENCE DETAIL A9/A921 FOR BASE DETAILS AT TILT-UP PANEL EDGE. TYPICAL BASE AT TILT-UP PANEL CONDITION.

PANEL NOTES

- D.O. DOOR OPENING
- W.O. WINDOW OPENING
- P.O. PANEL OPENING
- M.O. MECHANICAL OPENING
- F.E. RECESS IN PANEL FOR FIRE EXTINGUISHER OPENING. COORDINATE WITH MANUFACTURER FOR ACTUAL DIMENSIONS REQUIRED FOR FIRE EXTINGUISHER CABINET.



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332 EAST 300 NORTH
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STATE OF UTAH
NAYLOR WENTWORTH LUND ARCHITECTS
#319164
#183992
#7247356
LICENSED ARCHITECT

	DATE	REVISION
2	4/8/2025	ADDENDUM 3

TILT UP PANEL ELEVATIONS

A910

GENERAL NOTES - TILT-UP ELEVATION

1. REFERENCE B6/ A920 FOR FORMLINER REVEAL DETAILS AND TILT-UP PANEL REVEALS.
2. ALL PIPE PENETRATIONS IN PANELS TO BE COORDINATED WITH PLUMBING AND ELECTRICAL DRAWINGS. FINAL COORDINATION WITH PLUMBING AND ELECTRICAL CONTRACTOR REQUIRED. PROVIDE FLAT SURFACE FOR CORPORNATE WITHIN FORMLINER.
3. ALL MECHANICAL OPENINGS IN PANELS TO BE COORDINATED WITH MECHANICAL DRAWINGS. FINAL COORDINATION WITH MECHANICAL CONTRACTOR REQUIRED.
4. REFERENCE DETAIL A9/A921 FOR BASE DETAILS AT TILT-UP PANEL EDGE. TYPICAL BASE AT TILT-UP PANEL CONDITION.

PANEL NOTES

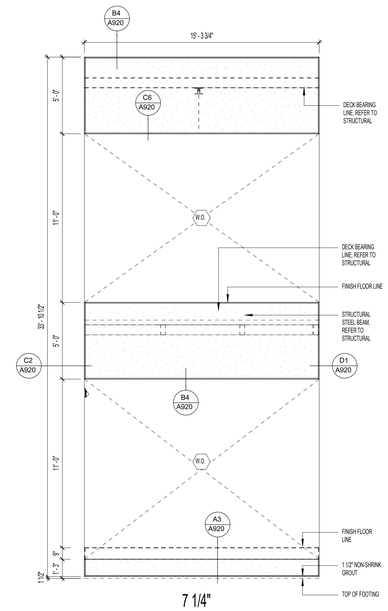
- D.O. DOOR OPENING
- W.O. WINDOW OPENING
- P.O. PANEL OPENING
- M.O. MECHANICAL OPENING
- F.E. RECESS IN PANEL FOR FIRE EXTINGUISHER OPENING. COORDINATE WITH MANUFACTURER FOR ACTUAL DIMENSIONS REQUIRED FOR FIRE EXTINGUISHER CABINET.

TILT-UP WALL PANEL LEGEND

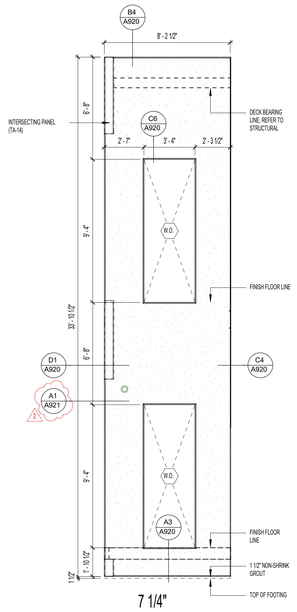
X"	
7 1/4"	7 1/4" CONCRETE TILT-UP PANEL; REFER TO TILT-UP PANEL ELEVATIONS, SPECIFICATIONS, AND STRUCTURAL DRAWINGS.
9"	9" CONCRETE TILT-UP SANDWICH PANEL: 9" CONCRETE STRUCTURE TILT-UP PANEL, 2" RIGID INSULATION, 4" CONCRETE VENEER; REFER TO TILT-UP PANEL ELEVATIONS, SPECIFICATIONS, AND STRUCTURAL DRAWINGS.
9 1/4"	9 1/4" CONCRETE TILT-UP PANEL; REFER TO TILT-UP PANEL ELEVATIONS, SPECIFICATIONS, AND STRUCTURAL DRAWINGS.
14"	14" CONCRETE TILT-UP PANEL; REFER TO TILT-UP PANEL ELEVATIONS, SPECIFICATIONS, AND STRUCTURAL DRAWINGS.
2	CONCRETE TILT-UP SANDWICH PANEL: 2" RIGID INSULATION, 4" CONCRETE VENEER; REFER TO TILT-UP PANEL ELEVATIONS, SPECIFICATIONS, AND STRUCTURAL DRAWINGS.
SH	CONCRETE TILT-UP SANDWICH PANEL: SANDWICH PANEL BEGINS ABOVE ROOF LINE, 2" RIGID INSULATION, 4" CONCRETE VENEER; REFER TO TILT-UP PANEL ELEVATIONS, SPECIFICATIONS, AND STRUCTURAL DRAWINGS.

NWL-LEGEND - KEYNOTE

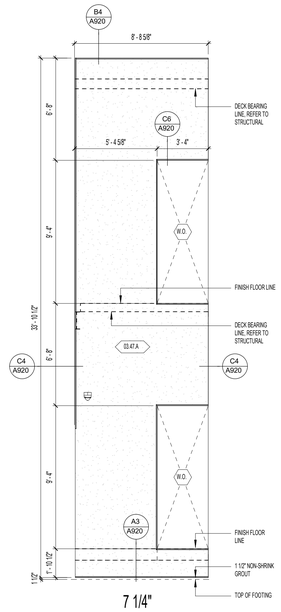
KEY VALUE	NOTE
03.47.A	03 4713 - CONCRETE TILT-UP WALL PANEL INTEGRALLY COLORED



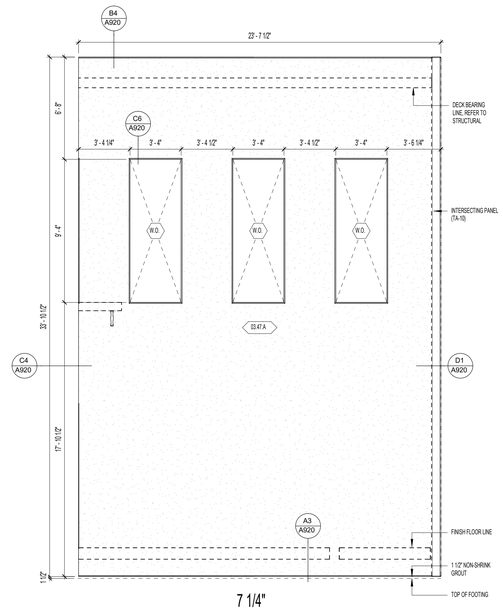
C1 A911 TILT-UP ELEVATION - TA-14
1/4" = 1'-0"



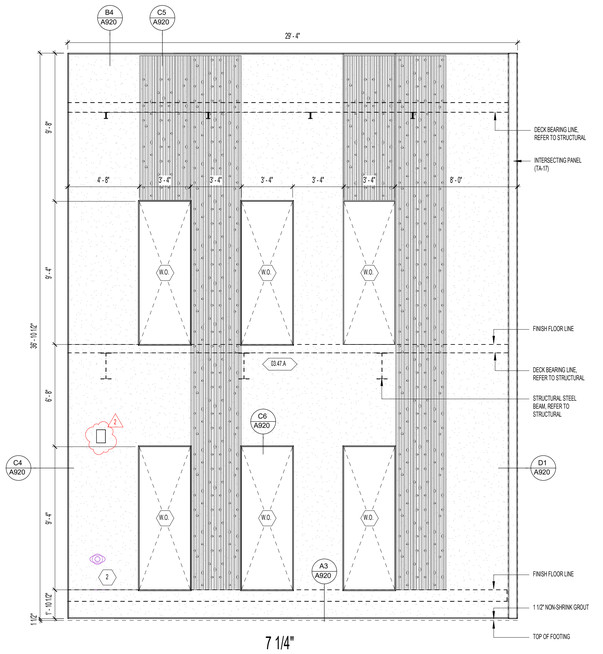
C3 A911 TILT-UP ELEVATION - TA-13
1/4" = 1'-0"



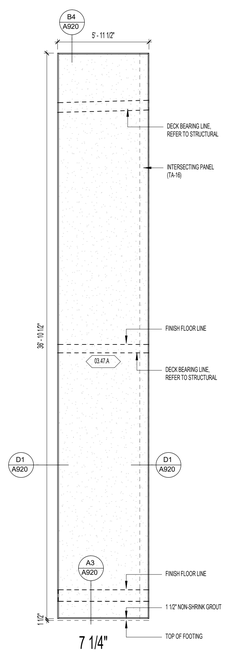
C4 A911 TILT-UP ELEVATION - TA-12
1/4" = 1'-0"



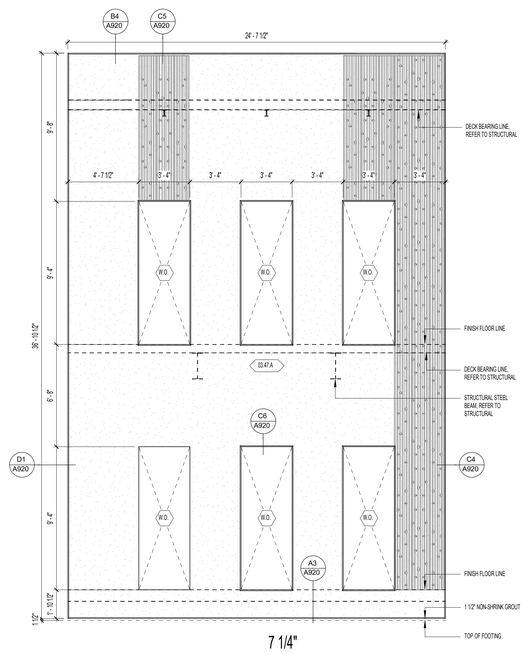
C5 A911 TILT-UP ELEVATION - TA-11
1/4" = 1'-0"



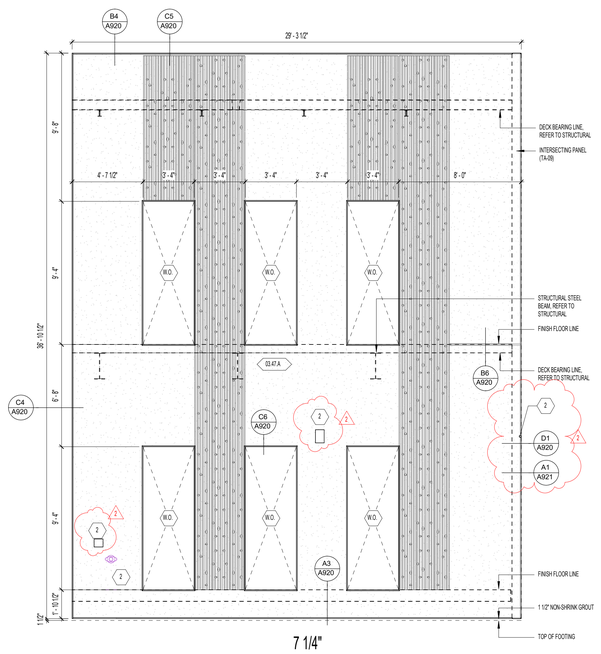
A1 A911 TILT-UP ELEVATION - TA-18
1/4" = 1'-0"



A3 A911 TILT-UP ELEVATION - TA-17
1/4" = 1'-0"



A4 A911 TILT-UP ELEVATION - TA-16
1/4" = 1'-0"



A5 A911 TILT-UP ELEVATION - TA-15
1/4" = 1'-0"

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CACHE COUNTY
SCHOOL DISTRICT

HYDE PARK ELEMENTARY SCHOOL
335 EAST 300 NORTH
HYDE PARK CITY, UT
84318

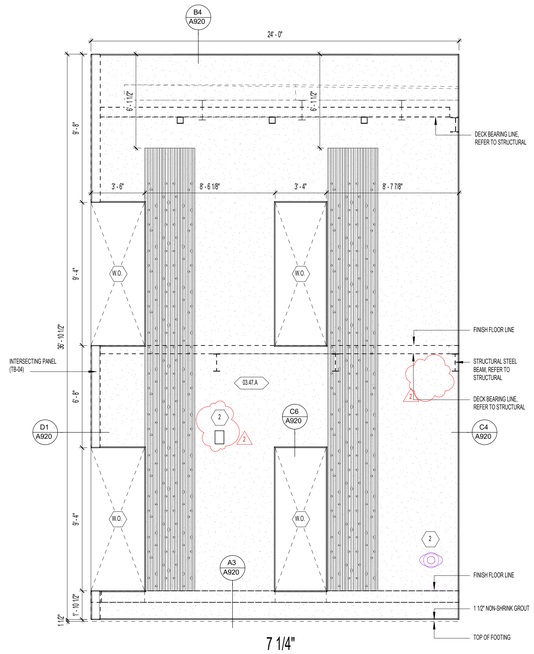
DRAWING ISSUE	BID SET
ISSUE DATE	03/25/2025
NWL PROJECT	0119.002

STATE OF UTAH
NAYLOR WENTWORTH LUND ARCHITECTS
#319164
#183992
#7247356
LICENSED ARCHITECT

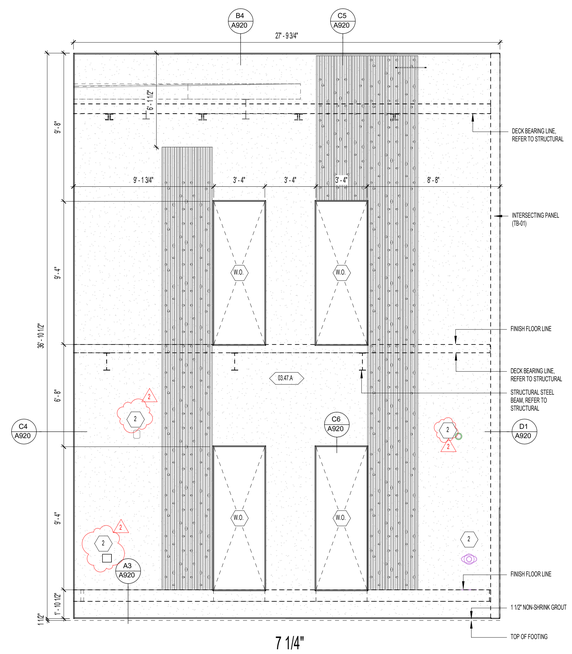
△	DATE	REVISION
2	4/8/2025	ADDENDUM 3

TILT UP PANEL ELEVATIONS

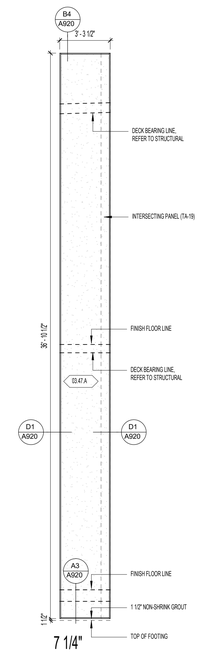
A911



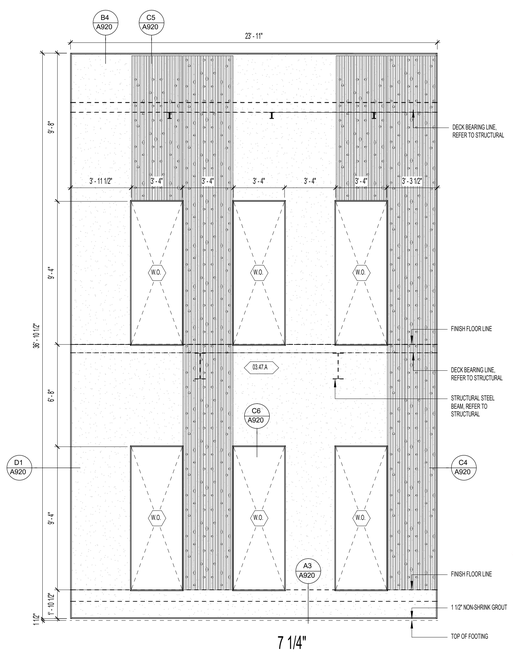
D1 A912 **TILT-UP ELEVATION - TB-03**
1/4" = 1'-0"



D3 A912 **TILT-UP ELEVATION - TB-02**
1/4" = 1'-0"



D4 A912 **TILT-UP ELEVATION - TB-01**
1/4" = 1'-0"



D5 A912 **TILT-UP ELEVATION - TA-19**
1/4" = 1'-0"

GENERAL NOTES - TILT-UP ELEVATION

1. REFERENCE B6/ A920 FOR FORMLINER REVEAL DETAILS AND TILT-UP PANEL REVEALS.
2. ALL PIPE PENETRATIONS IN PANELS TO BE COORDINATED WITH PLUMBING AND ELECTRICAL DRAWINGS. FINAL COORDINATION WITH PLUMBING AND ELECTRICAL CONTRACTOR REQUIRED. PROVIDE FLAT SURFACE FOR CORPORNATE WITHIN FORMLINER.
3. ALL MECHANICAL OPENINGS IN PANELS TO BE COORDINATED WITH MECHANICAL DRAWINGS. FINAL COORDINATION WITH MECHANICAL CONTRACTOR REQUIRED.
4. REFERENCE DETAIL A9/A921 FOR BASE DETAILS AT TILT-UP PANEL EDGE. TYPICAL BASE AT TILT-UP PANEL CONDITION.

PANEL NOTES

- D.O. DOOR OPENING
- W.O. WINDOW OPENING
- P.O. PANEL OPENING
- M.O. MECHANICAL OPENING
- F.E. RECESS IN PANEL FOR FIRE EXTINGUISHER OPENING. COORDINATE WITH MANUFACTURER FOR ACTUAL DIMENSIONS REQUIRED FOR FIRE EXTINGUISHER CABINET.

TILT-UP WALL PANEL LEGEND

X"

- 7 1/4" — 7 1/4" CONCRETE TILT-UP PANEL; REFER TO TILT-UP PANEL ELEVATIONS, SPECIFICATIONS, AND STRUCTURAL DRAWINGS.
- 9" — 9" CONCRETE TILT-UP SANDWICH PANEL: 9" CONCRETE STRUCTURE TILT-UP PANEL, 2" RIGID INSULATION, 4" CONCRETE VENEER; REFER TO TILT-UP PANEL ELEVATIONS, SPECIFICATIONS, AND STRUCTURAL DRAWINGS.
- 9 1/4" — 9 1/4" CONCRETE TILT-UP PANEL; REFER TO TILT-UP PANEL ELEVATIONS, SPECIFICATIONS, AND STRUCTURAL DRAWINGS.
- 14" — 14" CONCRETE TILT-UP PANEL; REFER TO TILT-UP PANEL ELEVATIONS, SPECIFICATIONS, AND STRUCTURAL DRAWINGS.
- 2 — CONCRETE TILT-UP SANDWICH PANEL: 2" RIGID INSULATION, 4" CONCRETE VENEER; REFER TO TILT-UP PANEL ELEVATIONS, SPECIFICATIONS, AND STRUCTURAL DRAWINGS.
- SH / 2 — CONCRETE TILT-UP SANDWICH PANEL: SANDWICH PANEL BEGINS ABOVE ROOF LINE, 2" RIGID INSULATION, 4" CONCRETE VENEER; REFER TO TILT-UP PANEL ELEVATIONS, SPECIFICATIONS, AND STRUCTURAL DRAWINGS.

NWL-LEGEND - KEYNOTE

KEY VALUE	NOTE
03.47 A	03 4713 - CONCRETE TILT-UP WALL PANEL INTEGRALLY COLORED

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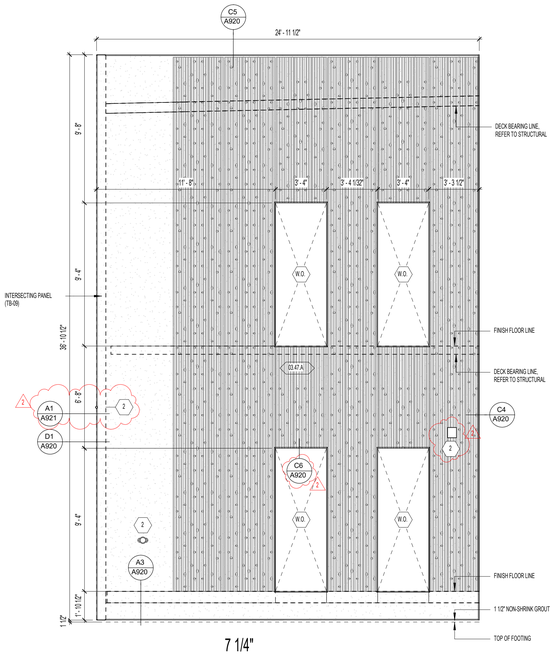
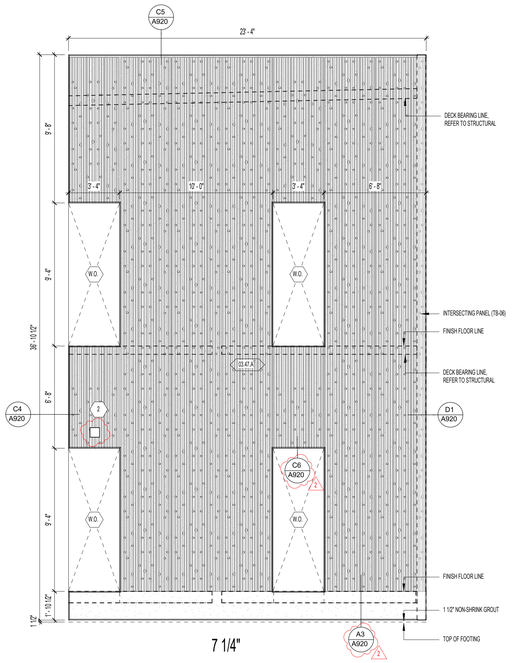
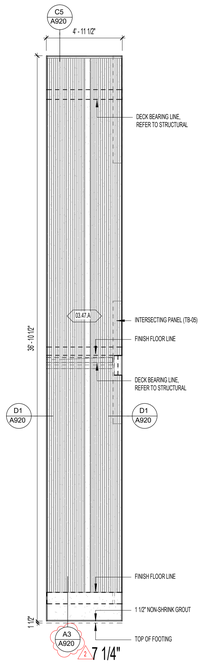
CACHE COUNTY
SCHOOL DISTRICT



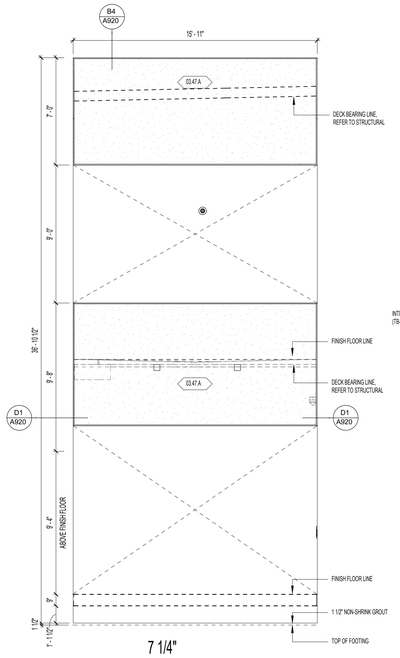
A1 A912 **TILT-UP ELEVATION - TB-08**
1/4" = 1'-0"



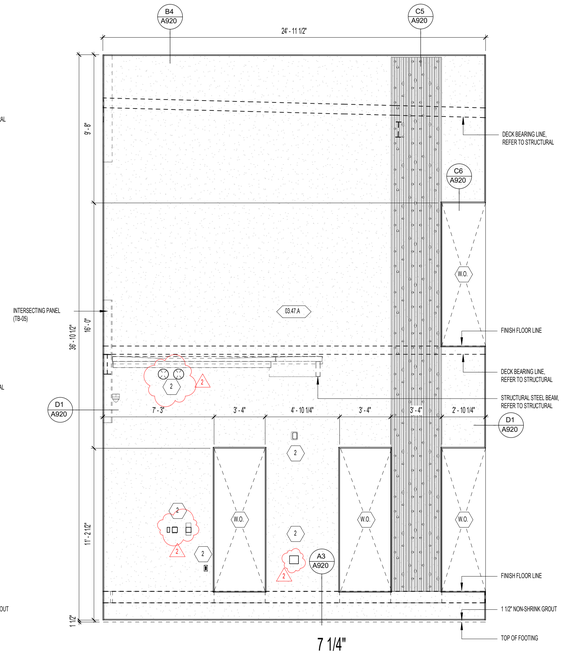
A3 A912 **TILT-UP ELEVATION - TB-07**
1/4" = 1'-0"



A4 A912 **TILT-UP ELEVATION - TB-06**
1/4" = 1'-0"



A5 A912 **TILT-UP ELEVATION - TB-05**
1/4" = 1'-0"



A6 A912 **TILT-UP ELEVATION - TB-04**
1/4" = 1'-0"

HYDE PARK ELEMENTARY SCHOOL
330 EAST 300 NORTH
HYDE PARK CITY, UT
84318

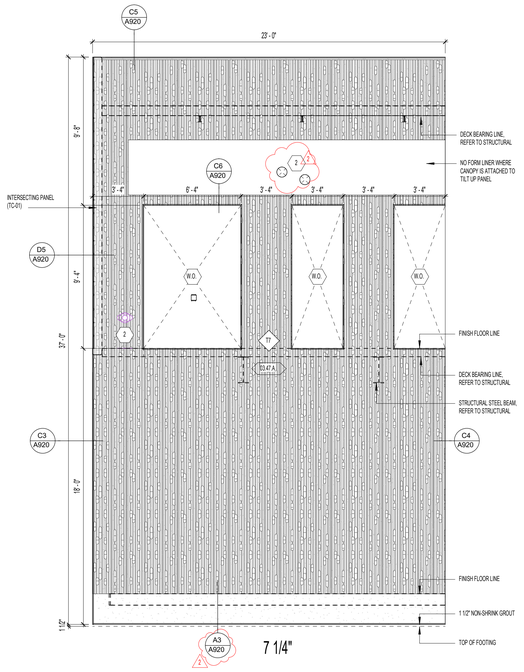
DRAWING ISSUE	BID SET
ISSUE DATE	03/25/2025
NWL PROJECT	0119.002

STATE OF UTAH
NAYLOR WENTWORTH LUND ARCHITECTS
#3191641
#1839921
#7247356
LICENSED ARCHITECT

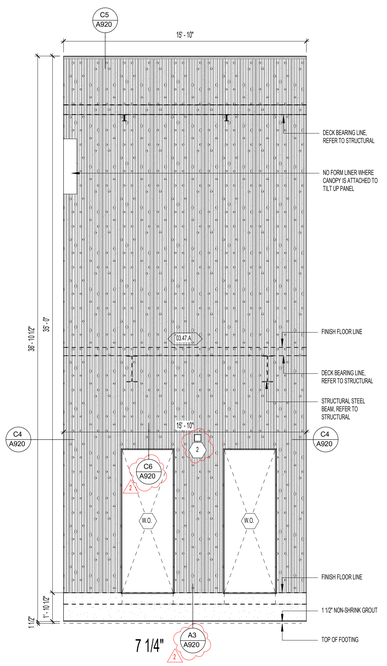
△	DATE	REVISION
2	4/8/2025	ADDENDUM 3

TILT UP PANEL ELEVATIONS

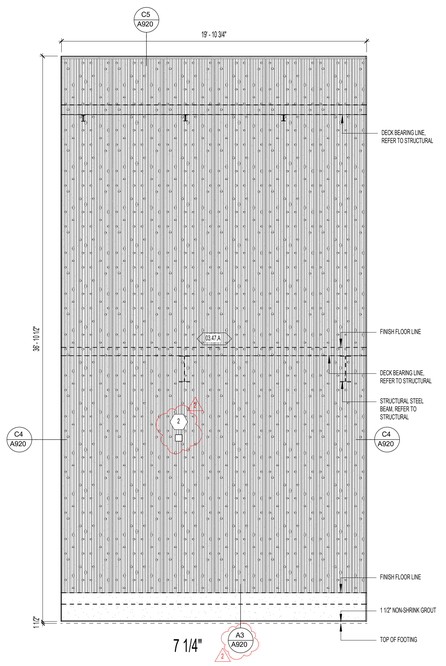
A912



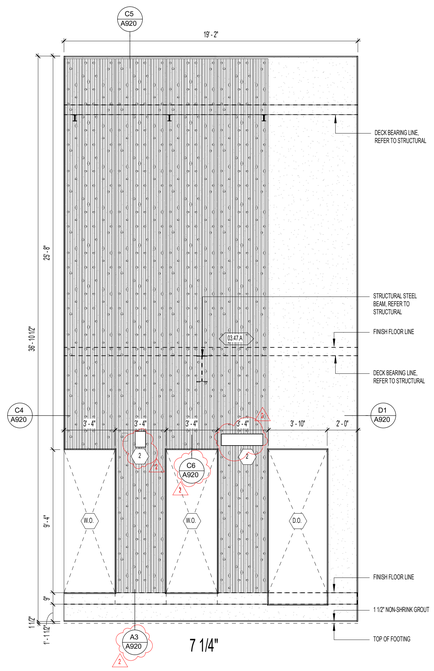
C1 A913 **TILT-UP ELEVATION - TB-12**
1/4" = 1'-0"



C3 A913 **TILT-UP ELEVATION - TB-11**
1/4" = 1'-0"



C4 A913 **TILT-UP ELEVATION - TB-10**
1/4" = 1'-0"



C5 A913 **TILT-UP ELEVATION - TB-09**
1/4" = 1'-0"

GENERAL NOTES - TILT-UP ELEVATION

1. REFERENCE B6/ A920 FOR FORMLINER REVEAL DETAILS AND TILT-UP PANEL REVEALS.
2. ALL PIPE PENETRATIONS IN PANELS TO BE COORDINATED WITH PLUMBING AND ELECTRICAL DRAWINGS. FINAL COORDINATION WITH PLUMBING AND ELECTRICAL CONTRACTOR REQUIRED. PROVIDE FLAT SURFACE FOR CORPORNATE WITHIN FORMLINER.
3. ALL MECHANICAL OPENINGS IN PANELS TO BE COORDINATED WITH MECHANICAL DRAWINGS. FINAL COORDINATION WITH MECHANICAL CONTRACTOR REQUIRED.
4. REFERENCE DETAIL A9/A921 FOR BASE DETAILS AT TILT-UP PANEL EDGE. TYPICAL BASE AT TILT-UP PANEL CONDITION.

PANEL NOTES

- D.O. DOOR OPENING
- W.O. WINDOW OPENING
- P.O. PANEL OPENING
- M.O. MECHANICAL OPENING
- F.E. RECESS IN PANEL FOR FIRE EXTINGUISHER OPENING. COORDINATE WITH MANUFACTURER FOR ACTUAL DIMENSIONS REQUIRED FOR FIRE EXTINGUISHER CABINET.

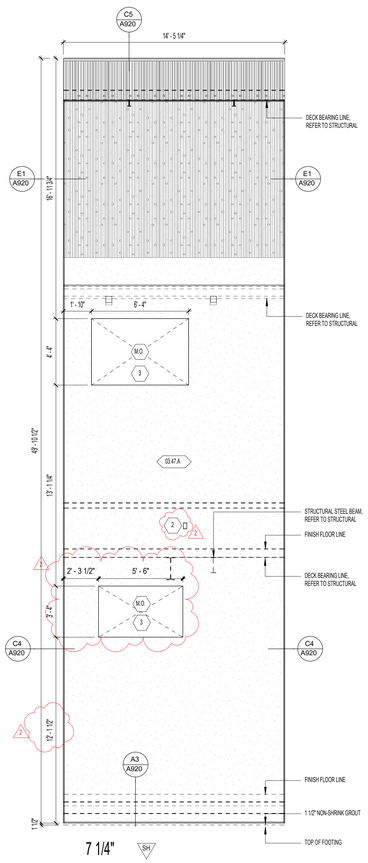
TILT-UP WALL PANEL LEGEND

X "

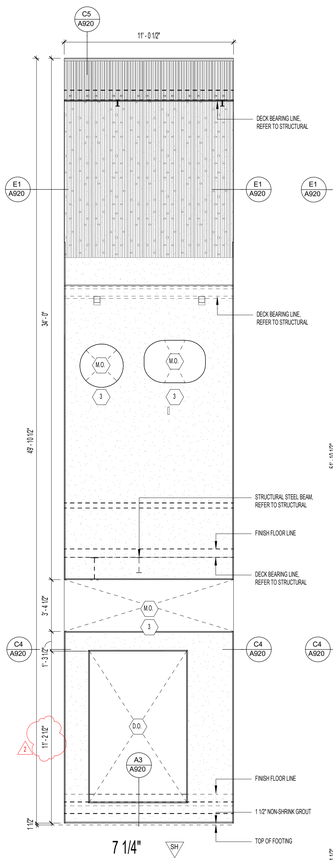
- 7 1/4" — 7 1/4" CONCRETE TILT-UP PANEL; REFER TO TILT-UP PANEL ELEVATIONS, SPECIFICATIONS, AND STRUCTURAL DRAWINGS.
- 9" — 9" CONCRETE TILT-UP SANDWICH PANEL: 9" CONCRETE STRUCTURE TILT-UP PANEL, 2" RIGID INSULATION, 4" CONCRETE VENEER; REFER TO TILT-UP PANEL ELEVATIONS, SPECIFICATIONS, AND STRUCTURAL DRAWINGS.
- 9 1/4" — 9 1/4" CONCRETE TILT-UP PANEL; REFER TO TILT-UP PANEL ELEVATIONS, SPECIFICATIONS, AND STRUCTURAL DRAWINGS.
- 14" — 14" CONCRETE TILT-UP PANEL; REFER TO TILT-UP PANEL ELEVATIONS, SPECIFICATIONS, AND STRUCTURAL DRAWINGS.
- 2 — CONCRETE TILT-UP SANDWICH PANEL: 2" RIGID INSULATION, 4" CONCRETE VENEER; REFER TO TILT-UP PANEL ELEVATIONS, SPECIFICATIONS, AND STRUCTURAL DRAWINGS.
- SH — CONCRETE TILT-UP SANDWICH PANEL: SANDWICH PANEL BEGINS ABOVE ROOF LINE, 2" RIGID INSULATION, 4" CONCRETE VENEER; REFER TO TILT-UP PANEL ELEVATIONS, SPECIFICATIONS, AND STRUCTURAL DRAWINGS.

NWL-LEGEND - KEYNOTE

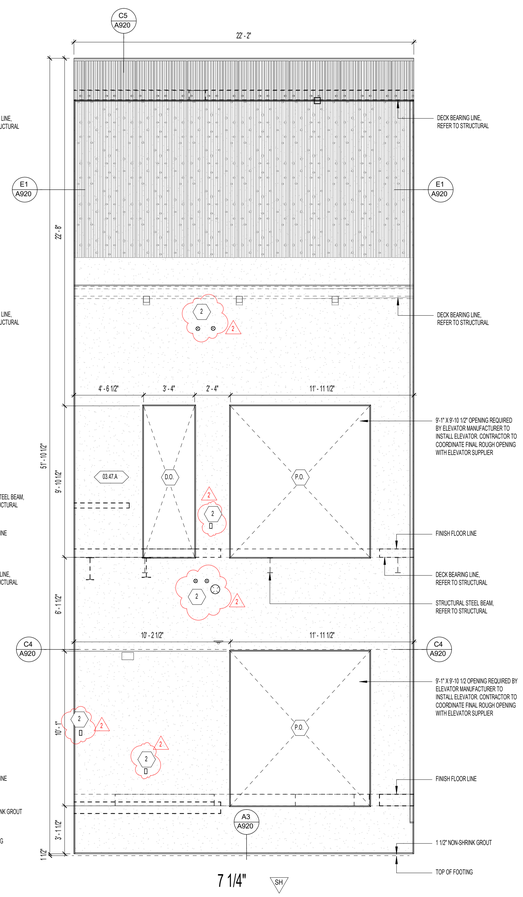
KEY VALUE	NOTE
03.47 A	03 4713 - CONCRETE TILT-UP WALL PANEL INTEGRALLY COLORED



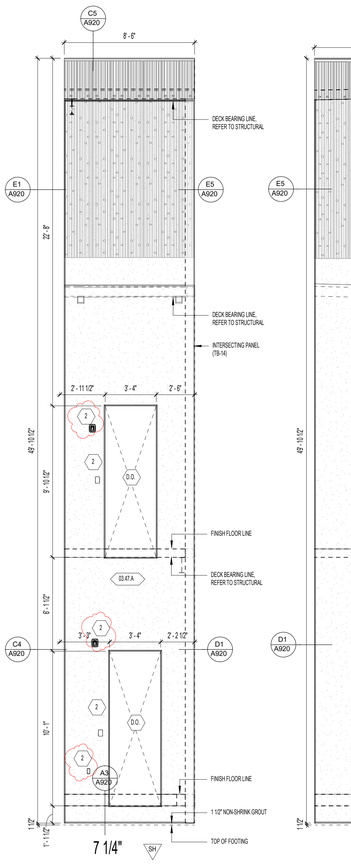
A1 A913 **TILT-UP ELEVATION - TB-18**
1/4" = 1'-0"



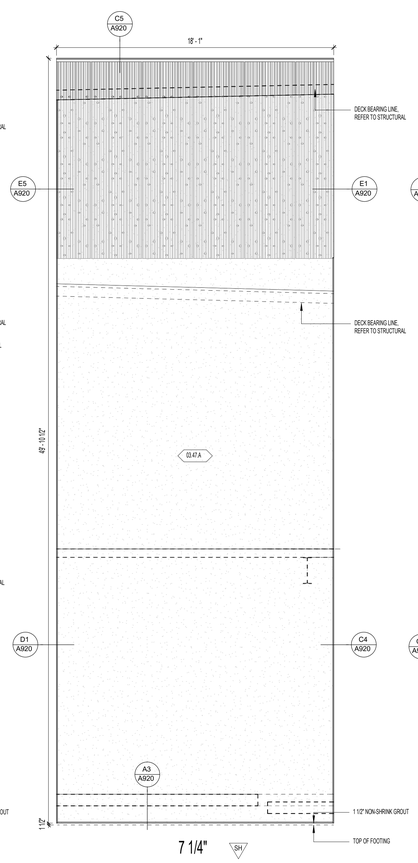
A2 A913 **TILT-UP ELEVATION - TB-17**
1/4" = 1'-0"



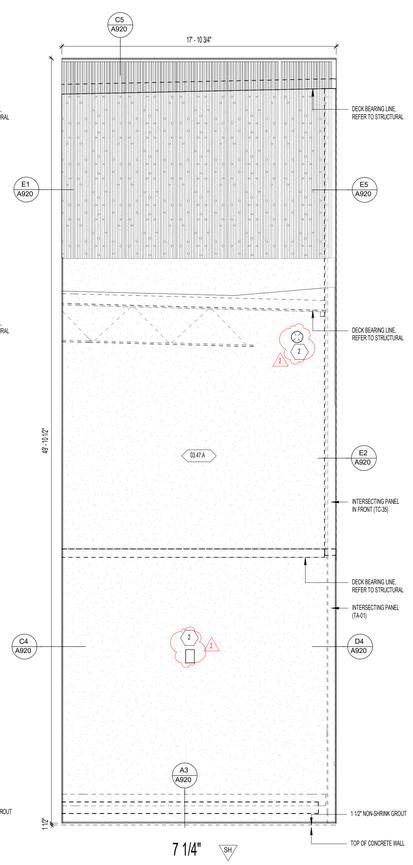
A3 A913 **TILT-UP ELEVATION - TB-16**
1/4" = 1'-0"



A4 A913 **TILT-UP ELEVATION - TB-15**
1/4" = 1'-0"



A5 A913 **TILT-UP ELEVATION - TB-14**
1/4" = 1'-0"



A6 A913 **TILT-UP ELEVATION - TB-13**
1/4" = 1'-0"

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CACHE COUNTY
SCHOOL DISTRICT

HYDE PARK ELEMENTARY SCHOOL
335 EAST 300 NORTH
HYDE PARK CITY, UT
84318

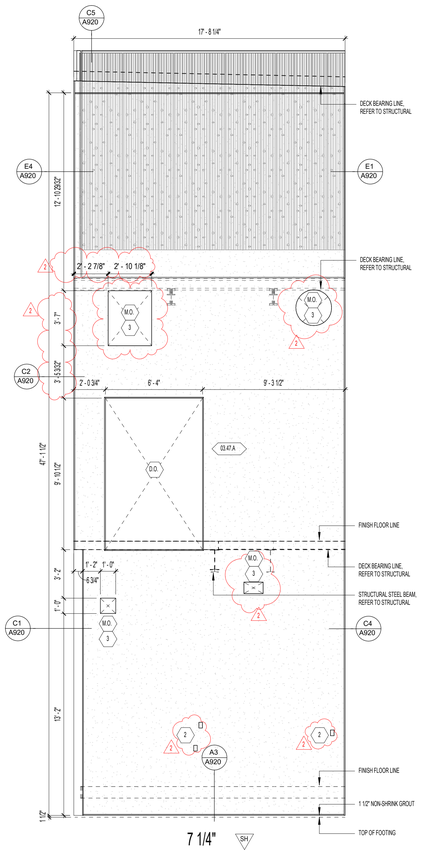
DRAWING ISSUE	BID SET
ISSUE DATE	03/25/2025
NWL PROJECT	0118.002

STATE OF UTAH
NAYLOR WENTWORTH LUND ARCHITECTS
#319164
#183992
#7247356
LICENSED ARCHITECT

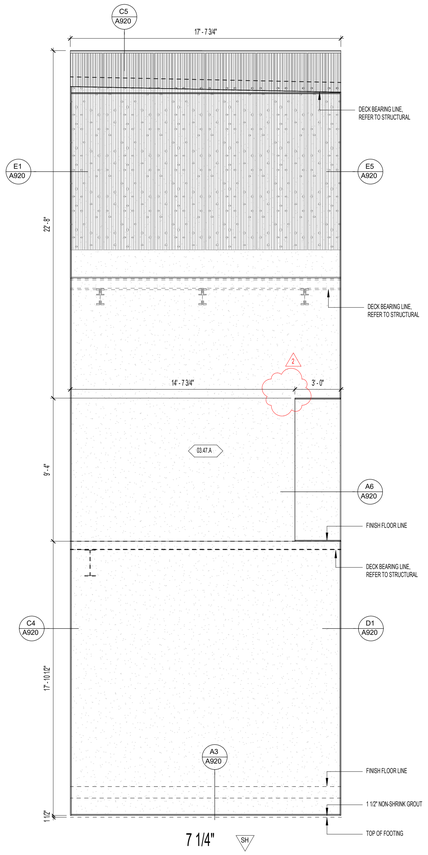
△	DATE	REVISION
2	4/8/2025	ADDENDUM 3

TILT UP PANEL ELEVATIONS

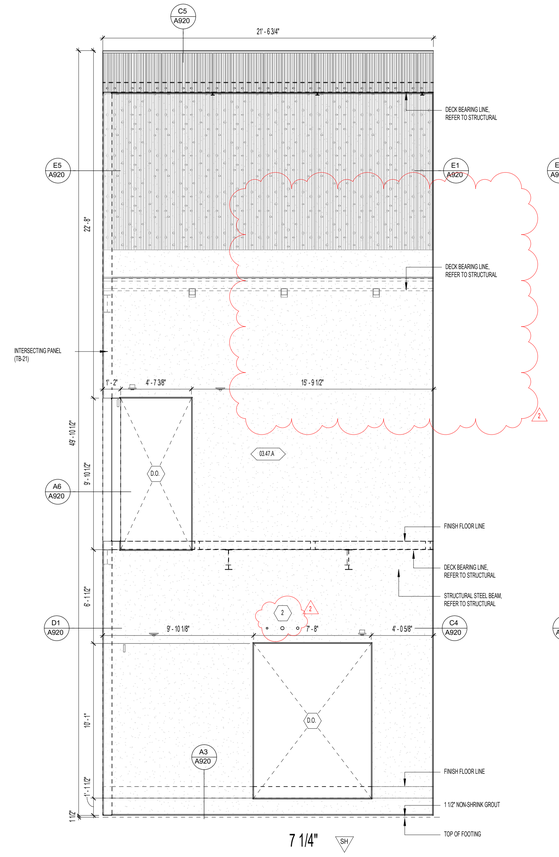
A913



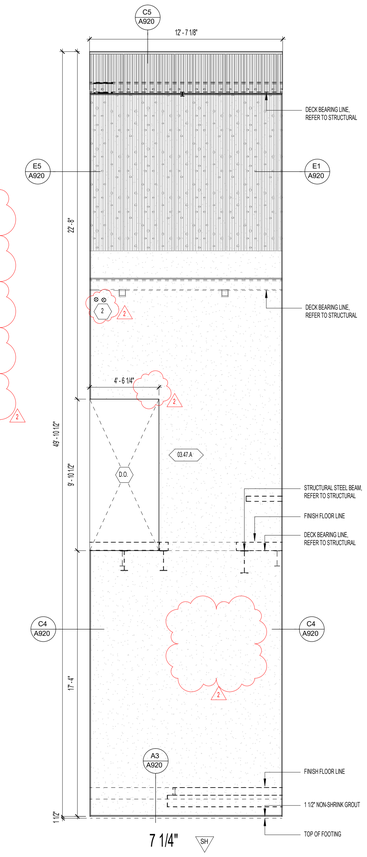
C1 A914 **TILT-UP ELEVATION - TB-22**
1/4" = 1'-0"



C3 A914 **TILT-UP ELEVATION - TB-21**
1/4" = 1'-0"



C4 A914 **TILT-UP ELEVATION - TB-20**
1/4" = 1'-0"



C5 A914 **TILT-UP ELEVATION - TB-19**
1/4" = 1'-0"

GENERAL NOTES - TILT-UP ELEVATION

1. REFERENCE B6/ A820 FOR FORMLINER REVEAL DETAILS AND TILT-UP PANEL REVEALS.
2. ALL PIPE PENETRATIONS IN PANELS TO BE COORDINATED WITH PLUMBING AND ELECTRICAL DRAWINGS. FINAL COORDINATION WITH PLUMBING AND ELECTRICAL CONTRACTOR REQUIRED. PROVIDE FLAT SURFACE FOR CORPORNATE WITHIN FORMLINER.
3. ALL MECHANICAL OPENINGS IN PANELS TO BE COORDINATED WITH MECHANICAL DRAWINGS. FINAL COORDINATION WITH MECHANICAL CONTRACTOR REQUIRED.
4. REFERENCE DETAIL A9/A921 FOR BASE DETAILS AT TILT-UP PANEL EDGE. TYPICAL BASE AT TILT-UP PANEL CONDITION.

PANEL NOTES

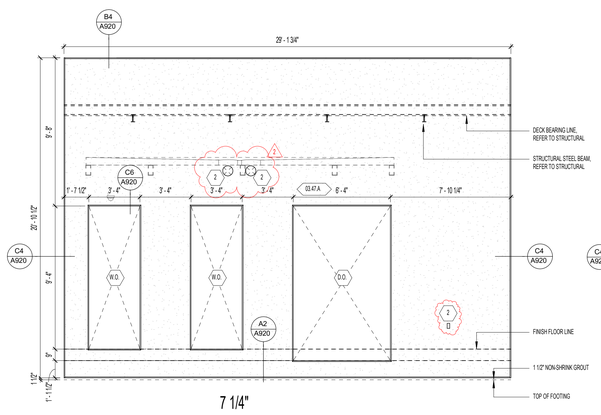
- D.O. DOOR OPENING
- W.O. WINDOW OPENING
- P.O. PANEL OPENING
- M.O. MECHANICAL OPENING
- F.E. RECESS IN PANEL FOR FIRE EXTINGUISHER OPENING. COORDINATE WITH MANUFACTURER FOR ACTUAL DIMENSIONS REQUIRED FOR FIRE EXTINGUISHER CABINET.

TILT-UP WALL PANEL LEGEND

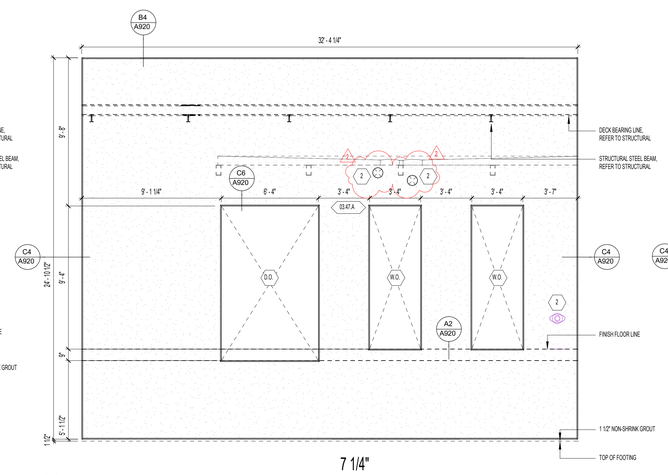
X'	
7 1/4"	7 1/4" CONCRETE TILT-UP PANEL; REFER TO TILT-UP PANEL ELEVATIONS, SPECIFICATIONS, AND STRUCTURAL DRAWINGS.
9"	9" CONCRETE TILT-UP SANDWICH PANEL; 9" CONCRETE STRUCTURE TILT-UP PANEL, 2" RIGID INSULATION, 4" CONCRETE VENEER; REFER TO TILT-UP PANEL ELEVATIONS, SPECIFICATIONS, AND STRUCTURAL DRAWINGS.
9 1/4"	9 1/4" CONCRETE TILT-UP PANEL; REFER TO TILT-UP PANEL ELEVATIONS, SPECIFICATIONS, AND STRUCTURAL DRAWINGS.
14"	14" CONCRETE TILT-UP PANEL; REFER TO TILT-UP PANEL ELEVATIONS, SPECIFICATIONS, AND STRUCTURAL DRAWINGS.
5	CONCRETE TILT-UP SANDWICH PANEL; 2" RIGID INSULATION, 4" CONCRETE VENEER; REFER TO TILT-UP PANEL ELEVATIONS, SPECIFICATIONS, AND STRUCTURAL DRAWINGS.
SH	CONCRETE TILT-UP SANDWICH PANEL; SANDWICH PANEL BEGINS ABOVE ROOF LINE, 2" RIGID INSULATION, 4" CONCRETE VENEER; REFER TO TILT-UP PANEL ELEVATIONS, SPECIFICATIONS, AND STRUCTURAL DRAWINGS.

NWL-LEGEND - KEYNOTE

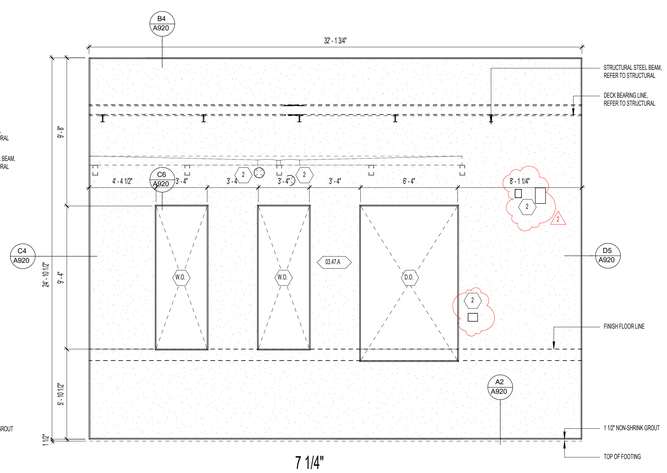
KEY VALUE	NOTE
03.47 A	03 4713 - CONCRETE TILT-UP WALL PANEL INTEGRALLY COLORED



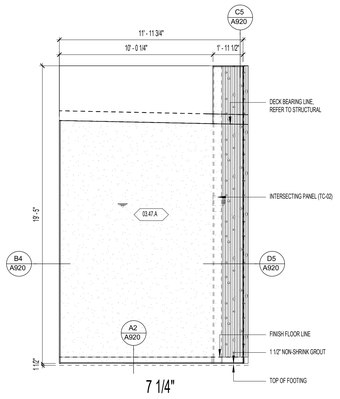
A1 A914 **TILT-UP ELEVATION - TC-04**
1/4" = 1'-0"



A3 A914 **TILT-UP ELEVATION - TC-03**
1/4" = 1'-0"



A5 A914 **TILT-UP ELEVATION - TC-02**
1/4" = 1'-0"



A6 A914 **TILT-UP ELEVATION - TC-01**
1/4" = 1'-0"

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CACHE COUNTY
SCHOOL DISTRICT

HYDE PARK ELEMENTARY SCHOOL
333 S 6TH E 300 NORTH
HYDE PARK SCOTT, UT
84318

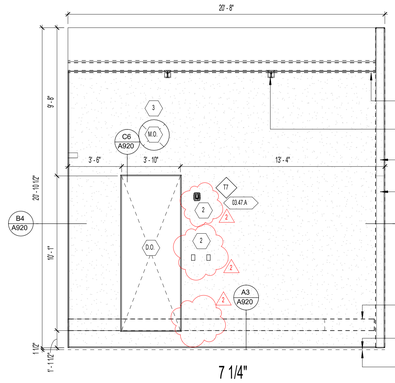
DRAWING ISSUE	
ISSUE DATE	BID SET 02/25/2025
NWL PROJECT	01/19/202

STATE OF UTAH
NAYLOR WENTWORTH LUND ARCHITECTS
#319164
#183992
#7247356
LICENSED ARCHITECT

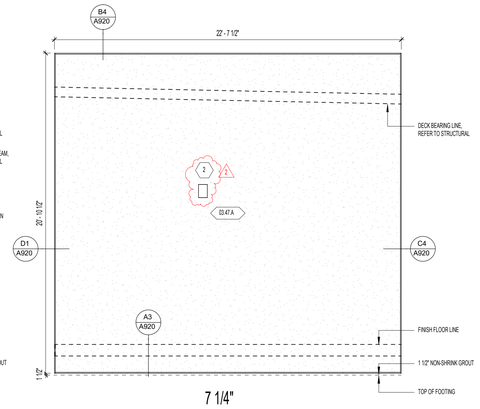
△	DATE	REVISION
2	4/8/2025	ADDENDUM 3

TILT UP PANEL ELEVATIONS

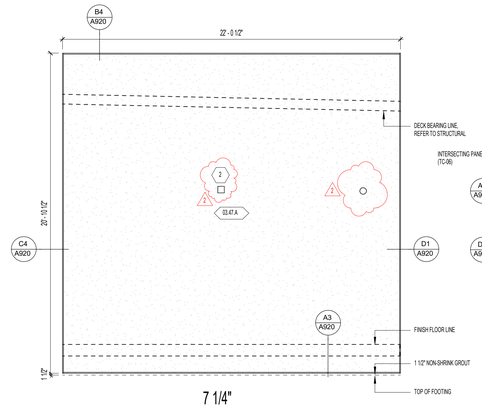
A914



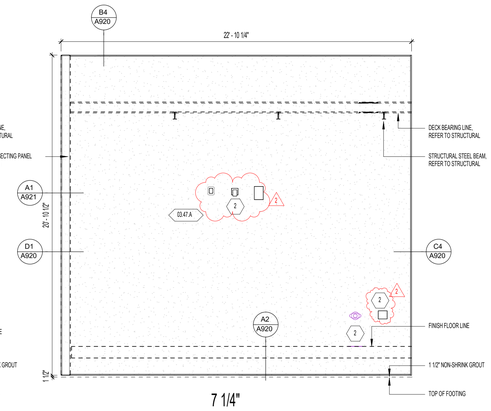
D1 TILT-UP ELEVATION - TC-08
A915 1/4" = 1'-0"



D3 TILT-UP ELEVATION - TC-07
A915 1/4" = 1'-0"



D4 TILT-UP ELEVATION - TC-06
A915 1/4" = 1'-0"



D6 TILT-UP ELEVATION - TC-05
A915 1/4" = 1'-0"

GENERAL NOTES - TILT-UP ELEVATION

1. REFERENCE B6/ A920 FOR FORMLINER REVEAL DETAILS AND TILT-UP PANEL REVEALS.
2. ALL PIPE PENETRATIONS IN PANELS TO BE COORDINATED WITH PLUMBING AND ELECTRICAL DRAWINGS. FINAL COORDINATION WITH PLUMBING AND ELECTRICAL CONTRACTOR REQUIRED. PROVIDE FLAT SURFACE FOR CORPORATE WITHIN FORMLINER.
3. ALL MECHANICAL OPENINGS IN PANELS TO BE COORDINATED WITH MECHANICAL DRAWINGS. FINAL COORDINATION WITH MECHANICAL CONTRACTOR REQUIRED.
4. REFERENCE DETAIL A9/A921 FOR BASE DETAILS AT TILT-UP PANEL EDGE. TYPICAL BASE AT TILT-UP PANEL CONDITION.

PANEL NOTES

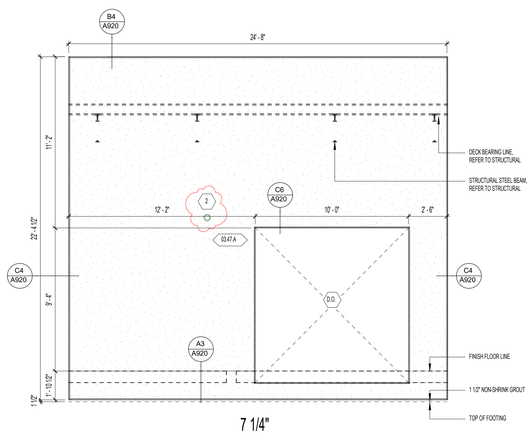
- D.O. DOOR OPENING
- W.O. WINDOW OPENING
- P.O. PANEL OPENING
- M.O. MECHANICAL OPENING
- F.E. RECESS IN PANEL FOR FIRE EXTINGUISHER OPENING. COORDINATE WITH MANUFACTURER FOR ACTUAL DIMENSIONS REQUIRED FOR FIRE EXTINGUISHER CABINET.

TILT-UP WALL PANEL LEGEND

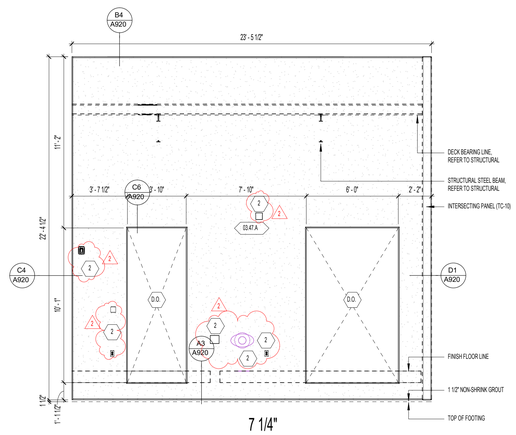
X'	
7 1/4"	7 1/4" CONCRETE TILT-UP PANEL; REFER TO TILT-UP PANEL ELEVATIONS, SPECIFICATIONS, AND STRUCTURAL DRAWINGS.
9"	9" CONCRETE TILT-UP SANDWICH PANEL; 9" CONCRETE STRUCTURE TILT-UP PANEL, 2" RIGID INSULATION, 4" CONCRETE VENEER; REFER TO TILT-UP PANEL ELEVATIONS, SPECIFICATIONS, AND STRUCTURAL DRAWINGS.
9 1/4"	9 1/4" CONCRETE TILT-UP PANEL; REFER TO TILT-UP PANEL ELEVATIONS, SPECIFICATIONS, AND STRUCTURAL DRAWINGS.
14"	14" CONCRETE TILT-UP PANEL; REFER TO TILT-UP PANEL ELEVATIONS, SPECIFICATIONS, AND STRUCTURAL DRAWINGS.
S	CONCRETE TILT-UP SANDWICH PANEL; 2" RIGID INSULATION, 4" CONCRETE VENEER; REFER TO TILT-UP PANEL ELEVATIONS, SPECIFICATIONS, AND STRUCTURAL DRAWINGS.
SH	CONCRETE TILT-UP SANDWICH PANEL; SANDWICH PANEL BEGINS ABOVE ROOF LINE, 2" RIGID INSULATION, 4" CONCRETE VENEER; REFER TO TILT-UP PANEL ELEVATIONS, SPECIFICATIONS, AND STRUCTURAL DRAWINGS.

NWL-LEGEND - KEYNOTE

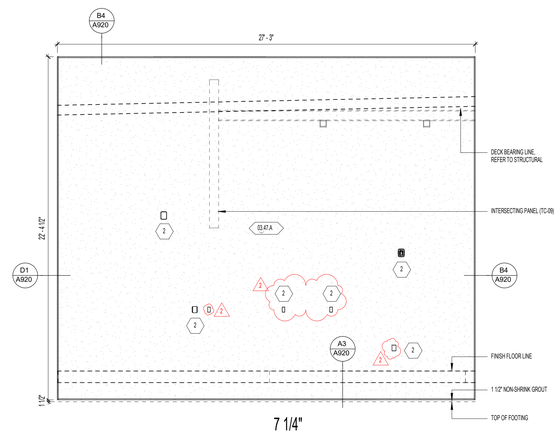
KEY VALUE	NOTE
03.47.A	03.4713 - CONCRETE TILT-UP WALL PANEL INTEGRALLY COLORED



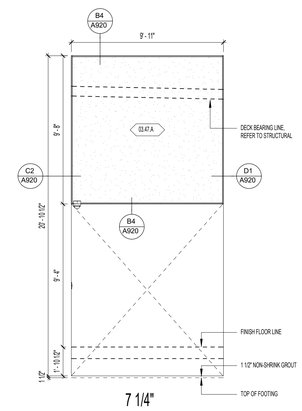
B1 TILT-UP ELEVATION - TC-12
A915 1/4" = 1'-0"



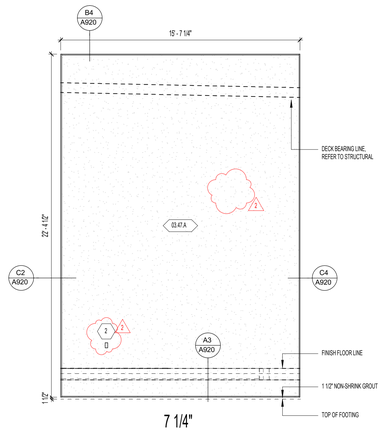
B3 TILT-UP ELEVATION - TC-11
A915 1/4" = 1'-0"



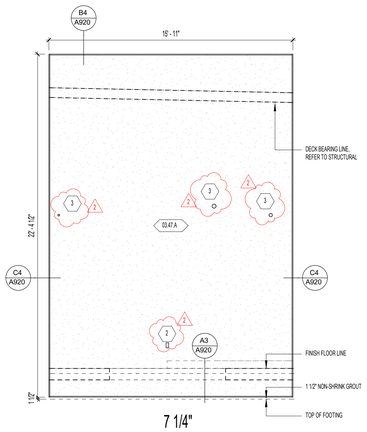
B4 TILT-UP ELEVATION - TC-10
A915 1/4" = 1'-0"



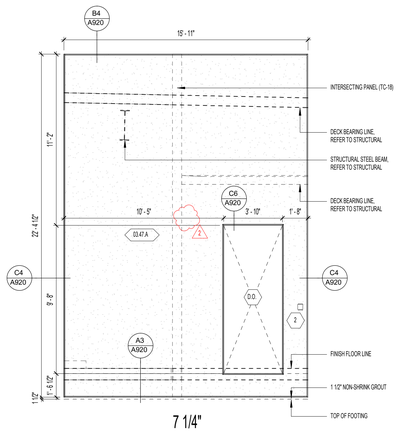
B6 TILT-UP ELEVATION - TC-09
A915 1/4" = 1'-0"



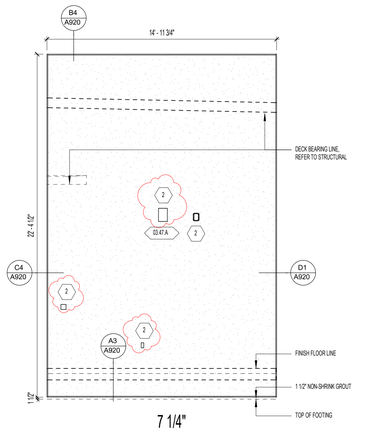
A1 TILT-UP ELEVATION - TC-17
A915 1/4" = 1'-0"



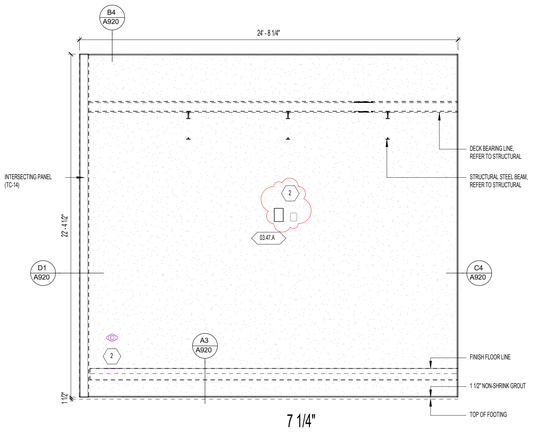
A2 TILT-UP ELEVATION - TC-16
A915 1/4" = 1'-0"



A4 TILT-UP ELEVATION - TC-15
A915 1/4" = 1'-0"



A5 TILT-UP ELEVATION - TC-14
A915 1/4" = 1'-0"



A6 TILT-UP ELEVATION - TC-13
A915 1/4" = 1'-0"

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CACHE COUNTY
SCHOOL DISTRICT

HYDE PARK ELEMENTARY SCHOOL
333 EAST 300 NORTH
HYDE PARK CITY, UT
84318

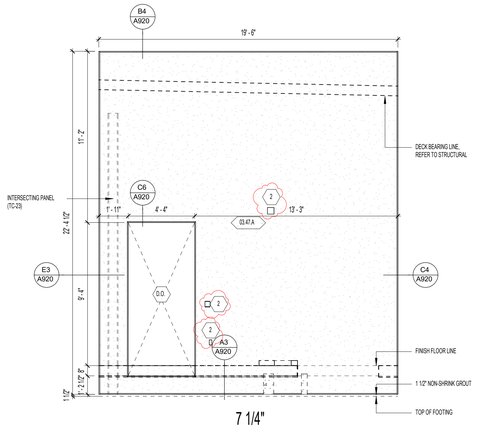
DRAWING ISSUE	BID SET
ISSUE DATE	03/25/2025
NWL PROJECT	0119.002

STATE OF UTAH
NAYLOR WENTWORTH LUND ARCHITECTS
#319164
#183992
#7247356
LICENSED ARCHITECT

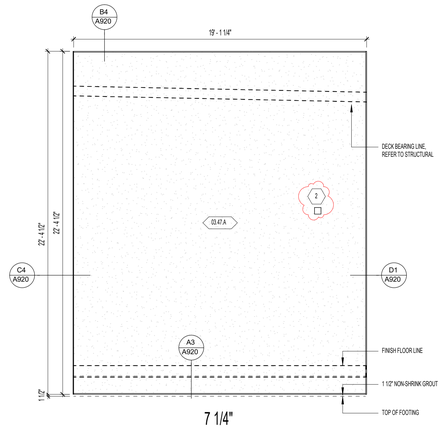
	DATE	REVISION
2	4/8/2025	ADDENDUM 3

TILT UP PANEL ELEVATIONS

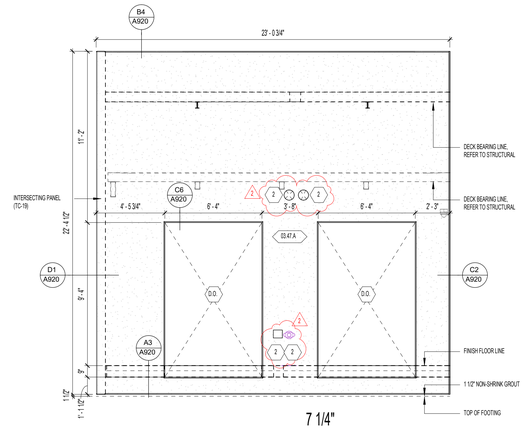
A915



D2 A916 TILT-UP ELEVATION - TC-20
1/4" = 1'-0"



D3 A916 TILT-UP ELEVATION - TC-19
1/4" = 1'-0"



D5 A916 TILT-UP ELEVATION - TC-18
1/4" = 1'-0"

GENERAL NOTES - TILT-UP ELEVATION

1. REFERENCE B6/ A920 FOR FORMLINER REVEAL DETAILS AND TILT-UP PANEL REVEALS.
2. ALL PIPE PENETRATIONS IN PANELS TO BE COORDINATED WITH PLUMBING AND ELECTRICAL DRAWINGS. FINAL COORDINATION WITH PLUMBING AND ELECTRICAL CONTRACTOR REQUIRED. PROVIDE FLAT SURFACE FOR CORPORNATE WITHIN FORMLINER.
3. ALL MECHANICAL OPENINGS IN PANELS TO BE COORDINATED WITH MECHANICAL DRAWINGS. FINAL COORDINATION WITH MECHANICAL CONTRACTOR REQUIRED.
4. REFERENCE DETAIL A9/A921 FOR BASE DETAILS AT TILT-UP PANEL EDGE. TYPICAL BASE AT TILT-UP PANEL CONDITION.

PANEL NOTES

- D.O. DOOR OPENING
- W.O. WINDOW OPENING
- P.O. PANEL OPENING
- M.O. MECHANICAL OPENING
- F.E. RECESS IN PANEL FOR FIRE EXTINGUISHER OPENING. COORDINATE WITH MANUFACTURER FOR ACTUAL DIMENSIONS REQUIRED FOR FIRE EXTINGUISHER CABINET.

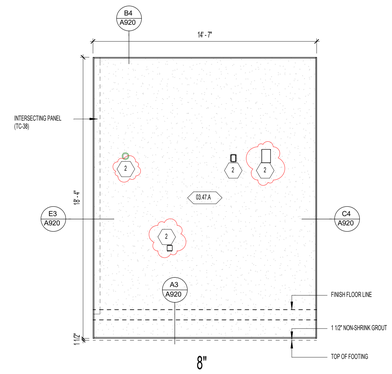
TILT-UP WALL PANEL LEGEND

X'	
7 1/4"	7 1/4" CONCRETE TILT-UP PANEL; REFER TO TILT-UP PANEL ELEVATIONS, SPECIFICATIONS, AND STRUCTURAL DRAWINGS.
9"	9" CONCRETE TILT-UP SANDWICH PANEL; 9" CONCRETE STRUCTURE TILT-UP PANEL, 2" RIGID INSULATION, 4" CONCRETE VENEER; REFER TO TILT-UP PANEL ELEVATIONS, SPECIFICATIONS, AND STRUCTURAL DRAWINGS.
9 1/4"	9 1/4" CONCRETE TILT-UP PANEL; REFER TO TILT-UP PANEL ELEVATIONS, SPECIFICATIONS, AND STRUCTURAL DRAWINGS.
14"	14" CONCRETE TILT-UP PANEL; REFER TO TILT-UP PANEL ELEVATIONS, SPECIFICATIONS, AND STRUCTURAL DRAWINGS.
S	CONCRETE TILT-UP SANDWICH PANEL; 2" RIGID INSULATION, 4" CONCRETE VENEER; REFER TO TILT-UP PANEL ELEVATIONS, SPECIFICATIONS, AND STRUCTURAL DRAWINGS.
SH	CONCRETE TILT-UP SANDWICH PANEL; SANDWICH PANEL BEGINS ABOVE ROOF LINE, 2" RIGID INSULATION, 4" CONCRETE VENEER; REFER TO TILT-UP PANEL ELEVATIONS, SPECIFICATIONS, AND STRUCTURAL DRAWINGS.

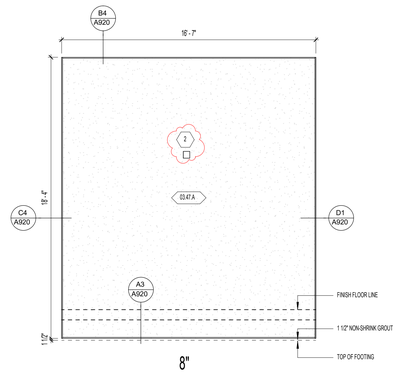
NWL-LEGEND - KEYNOTE

KEY VALUE	NOTE
03.47 A	03 4713 - CONCRETE TILT-UP WALL PANEL INTEGRALLY COLORED

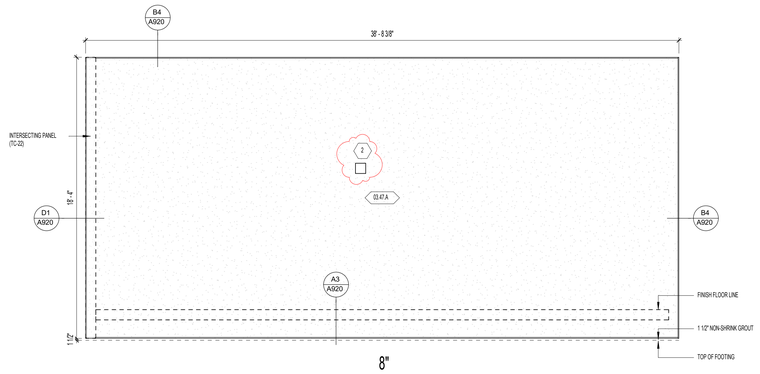
naylor wentworth lund
a r c h i t e c t s



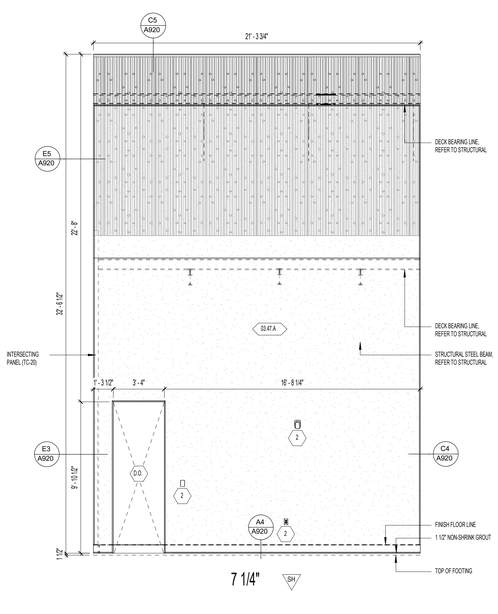
C2 A916 TILT-UP ELEVATION - TC-23
1/4" = 1'-0"



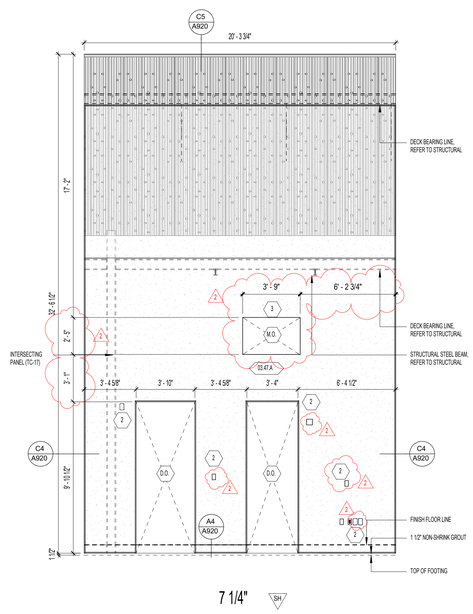
C3 A916 TILT-UP ELEVATION - TC-22
1/4" = 1'-0"



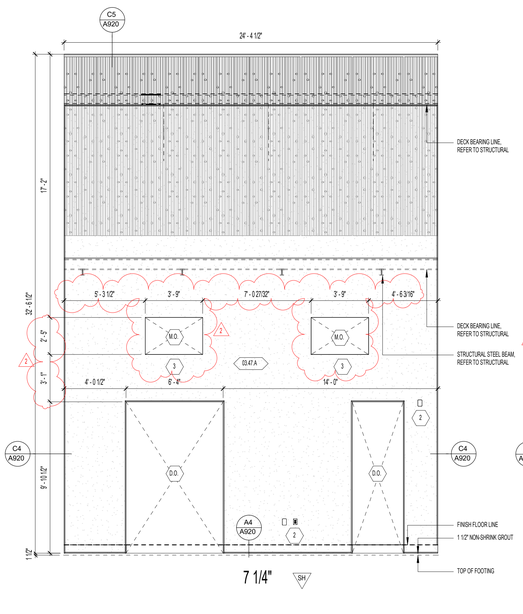
C5 A916 TILT-UP ELEVATION - TC-21
1/4" = 1'-0"



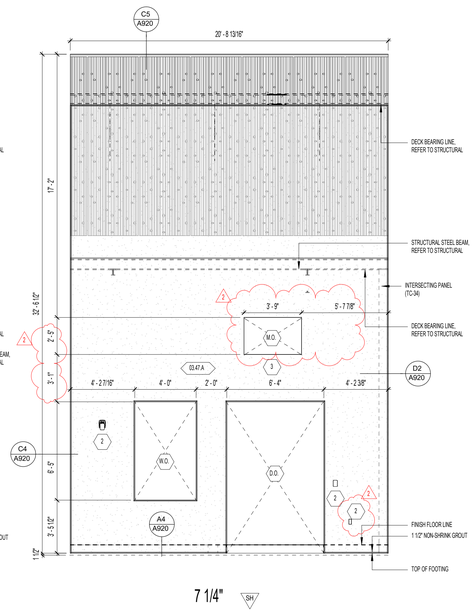
A1 A916 TILT-UP ELEVATION - TC-28
1/4" = 1'-0"



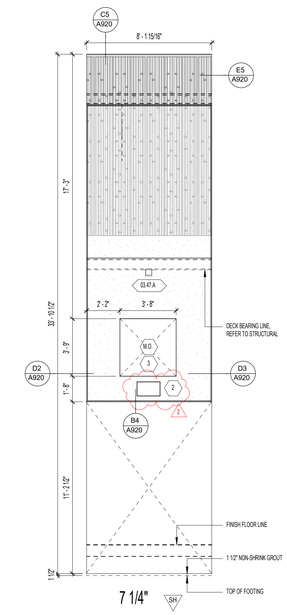
A3 A916 TILT-UP ELEVATION - TC-27
1/4" = 1'-0"



A4 A916 TILT-UP ELEVATION - TC-26
1/4" = 1'-0"



A5 A916 TILT-UP ELEVATION - TC-25
1/4" = 1'-0"



A6 A916 TILT-UP ELEVATION - TC-24
1/4" = 1'-0"

CACHE COUNTY
SCHOOL DISTRICT

HYDE PARK ELEMENTARY SCHOOL
333 EAST 300 NORTH
HYDE PARK, UTAH 84318

DRAWING ISSUE	
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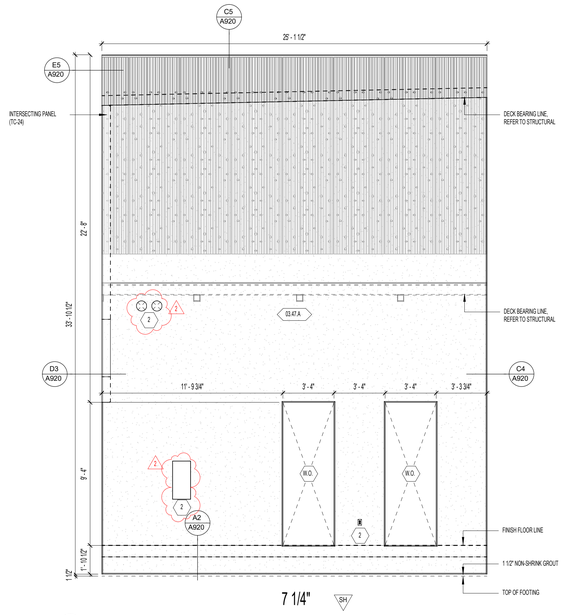
NWL PROJECT	01/15/202

STATE OF UTAH
NAYLOR WENTWORTH LUND ARCHITECTS
#319164
#183992
#7247356
LICENSED ARCHITECT

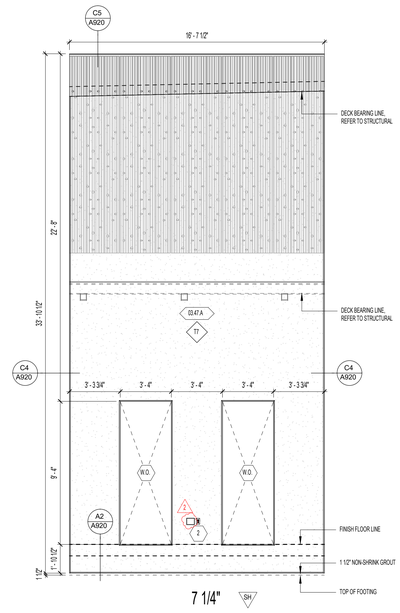
△	DATE	REVISION
2	4/8/2025	ADDENDUM 3

TILT UP PANEL ELEVATIONS

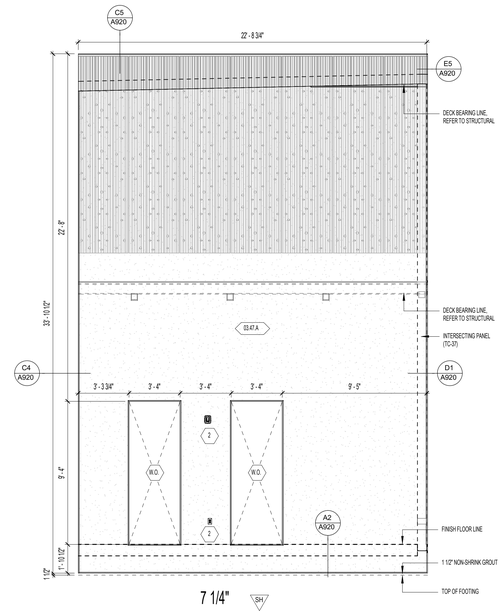
A916



D3 A8f7 **TILT-UP ELEVATION - TC-31**
1/4" = 1'-0"



D4 A8f7 **TILT-UP ELEVATION - TC-30**
1/4" = 1'-0"



D5 A8f7 **TILT-UP ELEVATION - TC-29**
1/4" = 1'-0"

GENERAL NOTES - TILT-UP ELEVATION

1. REFERENCE B6/ A805 FOR FORMLINER REVEAL DETAILS AND TILT-UP PANEL REVEALS.
2. ALL PIPE PENETRATIONS IN PANELS TO BE COORDINATED WITH PLUMBING AND ELECTRICAL DRAWINGS. FINAL COORDINATION WITH PLUMBING AND ELECTRICAL CONTRACTOR REQUIRED. PROVIDE FLAT SURFACE FOR CORPORNATE WITHIN FORMLINER.
3. ALL MECHANICAL OPENINGS IN PANELS TO BE COORDINATED WITH MECHANICAL DRAWINGS. FINAL COORDINATION WITH MECHANICAL CONTRACTOR REQUIRED.
4. REFERENCE DETAIL A9/A921 FOR BASE DETAILS AT TILT-UP PANEL EDGE. TYPICAL BASE AT TILT-UP PANEL CONDITION.

PANEL NOTES

- D.O. DOOR OPENING
- W.O. WINDOW OPENING
- P.O. PANEL OPENING
- M.O. MECHANICAL OPENING
- F.E. RECESS IN PANEL FOR FIRE EXTINGUISHER OPENING. COORDINATE WITH MANUFACTURER FOR ACTUAL DIMENSIONS REQUIRED FOR FIRE EXTINGUISHER CABINET.

TILT-UP WALL PANEL LEGEND

X"	
7 1/4"	7 1/4" CONCRETE TILT-UP PANEL; REFER TO TILT-UP PANEL ELEVATIONS, SPECIFICATIONS, AND STRUCTURAL DRAWINGS.
9"	9" CONCRETE TILT-UP SANDWICH PANEL: 9" CONCRETE STRUCTURE TILT-UP PANEL, 2" RIGID INSULATION, 4" CONCRETE VENEER; REFER TO TILT-UP PANEL ELEVATIONS, SPECIFICATIONS, AND STRUCTURAL DRAWINGS.
9 1/4"	9 1/4" CONCRETE TILT-UP PANEL; REFER TO TILT-UP PANEL ELEVATIONS, SPECIFICATIONS, AND STRUCTURAL DRAWINGS.
14"	14" CONCRETE TILT-UP PANEL; REFER TO TILT-UP PANEL ELEVATIONS, SPECIFICATIONS, AND STRUCTURAL DRAWINGS.
2	CONCRETE TILT-UP SANDWICH PANEL: 2" RIGID INSULATION, 4" CONCRETE VENEER; REFER TO TILT-UP PANEL ELEVATIONS, SPECIFICATIONS, AND STRUCTURAL DRAWINGS.
SH	CONCRETE TILT-UP SANDWICH PANEL: SANDWICH PANEL BEGINS ABOVE ROOF LINE, 2" RIGID INSULATION, 4" CONCRETE VENEER; REFER TO TILT-UP PANEL ELEVATIONS, SPECIFICATIONS, AND STRUCTURAL DRAWINGS.

NWL-LEGEND - KEYNOTE

KEY VALUE	NOTE
03.47 A	03 47 13 - CONCRETE TILT-UP WALL PANEL INTEGRALLY COLORED

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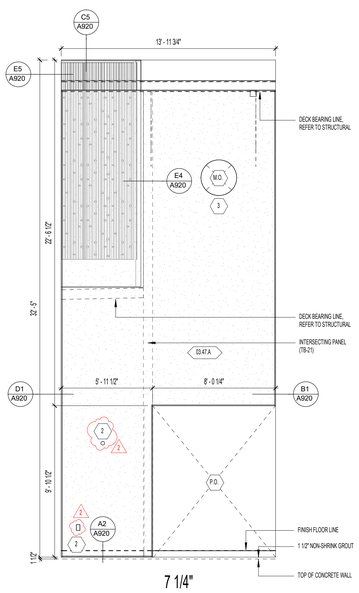
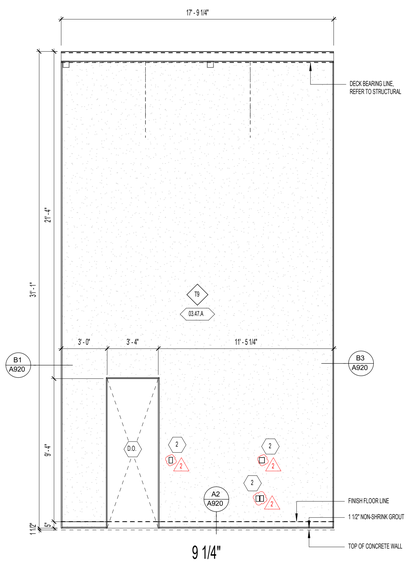
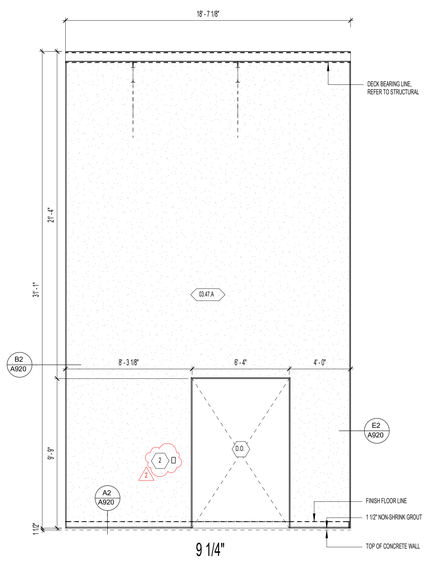
architects



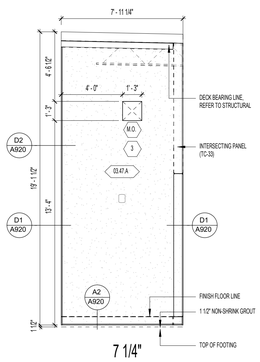
A2 A8f7 **TILT-UP ELEVATION - TC-37**
1/4" = 1'-0"



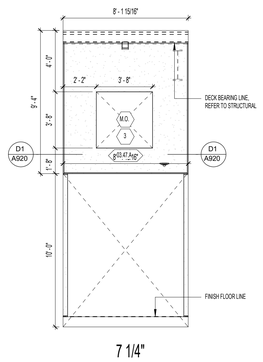
A3 A8f7 **TILT-UP ELEVATION - TC-36**
1/4" = 1'-0"



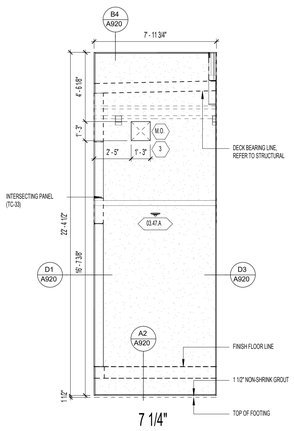
A4 A8f7 **TILT-UP ELEVATION - TC-35**
1/4" = 1'-0"



A5 A8f7 **TILT-UP ELEVATION - TC-34**
1/4" = 1'-0"



A6a A8f7 **TILT-UP ELEVATION - TC-33**
1/4" = 1'-0"



A6b A8f7 **TILT-UP ELEVATION - TC-32**
1/4" = 1'-0"

HYDE PARK ELEMENTARY SCHOOL
330 EAST 300 NORTH
HYDE PARK CITY, UT
84318

DRAWING ISSUE	BID SET
ISSUE DATE	03/25/2025
NWL PROJECT	0119.002

STATE OF UTAH
NAYLOR WENTWORTH LUND ARCHITECTS
#319164
#183992
#7247356
LICENSED ARCHITECT

	DATE	REVISION
2	4/8/2025	ADDENDUM 3

CACHE COUNTY SCHOOL DISTRICT

TILT UP PANEL ELEVATIONS

A917

GENERAL NOTES - TILT-UP ELEVATION

1. REFERENCE B6/ A920 FOR FORMLINER REVEAL DETAILS AND TILT-UP PANEL REVEALS.
2. ALL PIPE PENETRATIONS IN PANELS TO BE COORDINATED WITH PLUMBING AND ELECTRICAL DRAWINGS. FINAL COORDINATION WITH PLUMBING AND ELECTRICAL CONTRACTOR REQUIRED. PROVIDE FLAT SURFACE FOR CORPORNATE WITHIN FORMLINER.
3. ALL MECHANICAL OPENINGS IN PANELS TO BE COORDINATED WITH MECHANICAL DRAWINGS. FINAL COORDINATION WITH MECHANICAL CONTRACTOR REQUIRED.
4. REFERENCE DETAIL A9/A921 FOR BASE DETAILS AT TILT-UP PANEL EDGE. TYPICAL BASE AT TILT-UP PANEL CONDITION.

PANEL NOTES

- D.O. DOOR OPENING
- W.O. WINDOW OPENING
- P.O. PANEL OPENING
- M.O. MECHANICAL OPENING
- F.E. RECESS IN PANEL FOR FIRE EXTINGUISHER OPENING. COORDINATE WITH MANUFACTURER FOR ACTUAL DIMENSIONS REQUIRED FOR FIRE EXTINGUISHER CABINET.

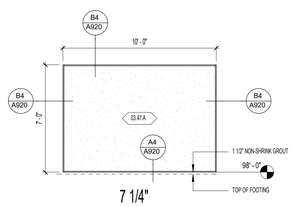
TILT-UP WALL PANEL LEGEND

X'

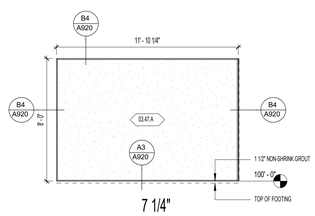
- 7 1/4" — 7 1/4" CONCRETE TILT-UP PANEL; REFER TO TILT-UP PANEL ELEVATIONS, SPECIFICATIONS, AND STRUCTURAL DRAWINGS.
- 9" — 9" CONCRETE TILT-UP SANDWICH PANEL. 9" CONCRETE STRUCTURE TILT-UP PANEL, 2" RIGID INSULATION, 4" CONCRETE VENEER; REFER TO TILT-UP PANEL ELEVATIONS, SPECIFICATIONS, AND STRUCTURAL DRAWINGS.
- 9 1/4" — 9 1/4" CONCRETE TILT-UP PANEL; REFER TO TILT-UP PANEL ELEVATIONS, SPECIFICATIONS, AND STRUCTURAL DRAWINGS.
- 14" — 14" CONCRETE TILT-UP PANEL; REFER TO TILT-UP PANEL ELEVATIONS, SPECIFICATIONS, AND STRUCTURAL DRAWINGS.
- 2 — CONCRETE TILT-UP SANDWICH PANEL; 2" RIGID INSULATION, 4" CONCRETE VENEER; REFER TO TILT-UP PANEL ELEVATIONS, SPECIFICATIONS, AND STRUCTURAL DRAWINGS.
- SH — CONCRETE TILT-UP SANDWICH PANEL; SANDWICH PANEL BEGINS ABOVE ROOF LINE, 2" RIGID INSULATION, 4" CONCRETE VENEER; REFER TO TILT-UP PANEL ELEVATIONS, SPECIFICATIONS, AND STRUCTURAL DRAWINGS.

NWL-LEGEND - KEYNOTE

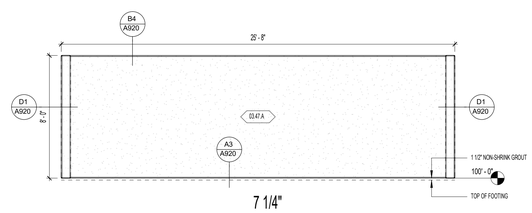
KEY VALUE	NOTE
03.47.A	03 4713 - CONCRETE TILT-UP WALL PANEL INTEGRALLY COLORED



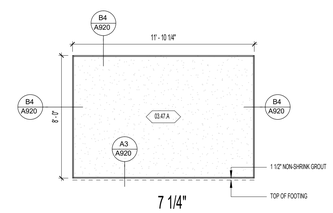
C1 A918 TILT-UP ELEVATION - DM-04
1/4" = 1'-0"



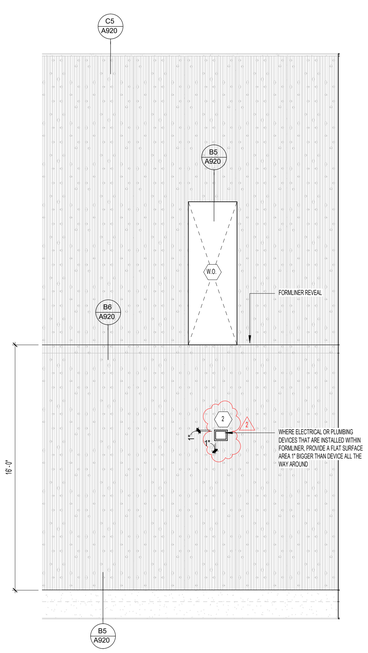
C2 A918 TILT-UP ELEVATION - DM-03
1/4" = 1'-0"



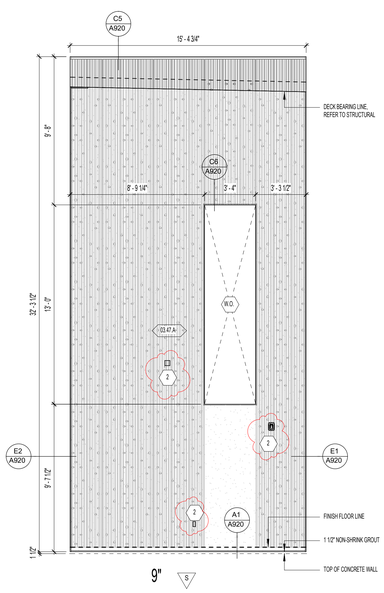
C3 A918 TILT-UP ELEVATION - DM-02
1/4" = 1'-0"



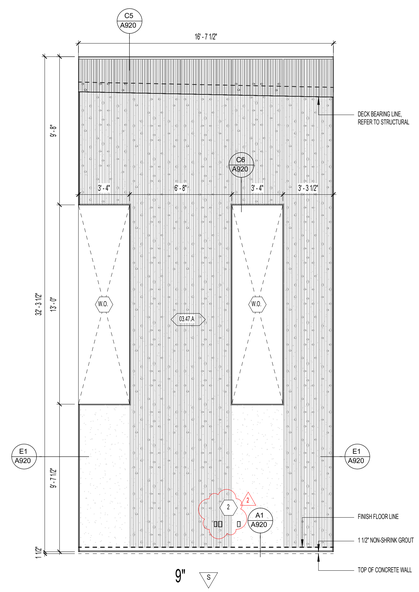
C5 A918 TILT-UP ELEVATION - DM-01
1/4" = 1'-0"



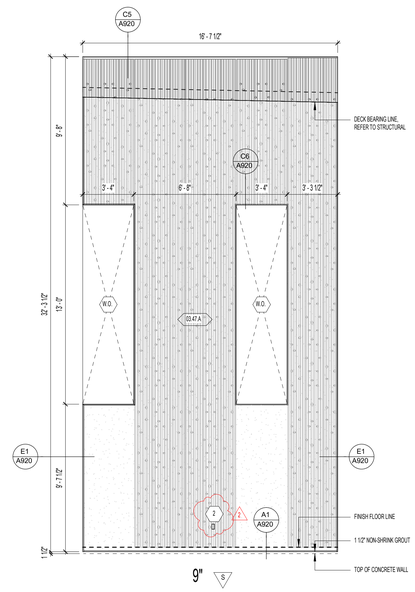
A1 A918 TYP. FORMLINER ELEVATION
1/4" = 1'-0"



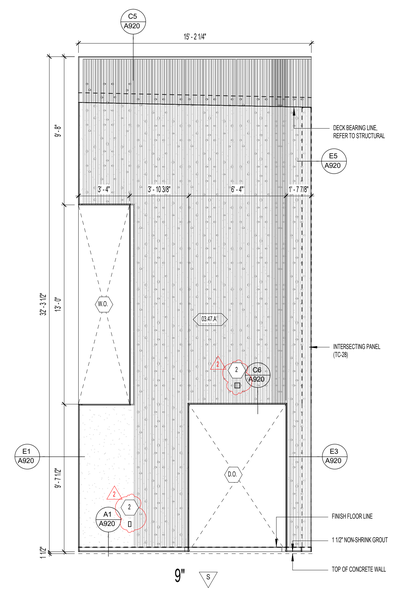
A2 A918 TILT-UP ELEVATION - TC-41
1/4" = 1'-0"



A4 A918 TILT-UP ELEVATION - TC-40
1/4" = 1'-0"



A5 A918 TILT-UP ELEVATION - TC-39
1/4" = 1'-0"



A6 A918 TILT-UP ELEVATION - TC-38
1/4" = 1'-0"

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a r c h i t e c t s

CACHE COUNTY
SCHOOL DISTRICT

HYDE PARK ELEMENTARY SCHOOL
333 EAST 300 NORTH
HYDE PARK, SALT LAKE CITY, UT
84318

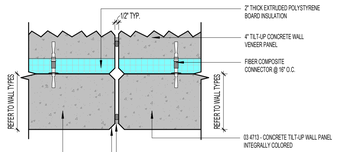
DRAWING ISSUE	BID SET
ISSUE DATE	03/25/2025
NWL PROJECT	01/19/02

STATE OF UTAH
NAYLOR WENTWORTH LUND ARCHITECTS
#319164
#183992
#7247356
LICENSED ARCHITECT

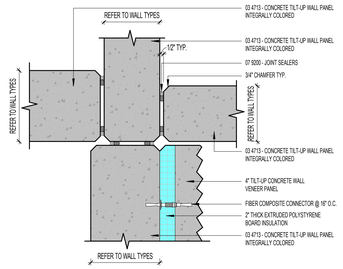
△	DATE	REVISION
2	4/8/2025	ADDENDUM 3

TILT UP PANEL ELEVATIONS

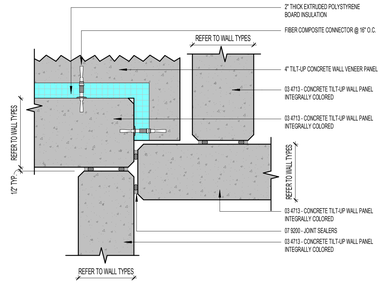
A918



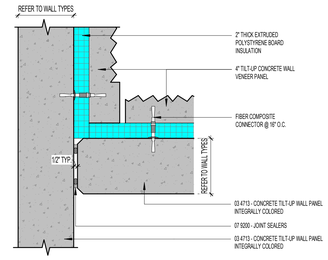
E1 / A920 **TILT-UP DETAIL 19**
1 1/2" = 1'-0"



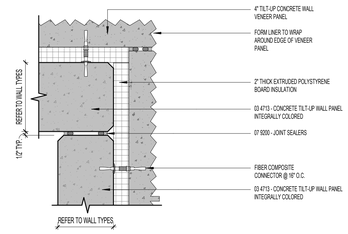
E2 / A920 **TILT-UP DETAIL 20**
1 1/2" = 1'-0"



E3 / A920 **TILT-UP DETAIL 21**
1 1/2" = 1'-0"



E4 / A920 **TILT-UP DETAIL 22**
1 1/2" = 1'-0"



E5 / A920 **TILT-UP DETAIL 23**
1 1/2" = 1'-0"

GENERAL NOTES - TILT-UP ELEVATION

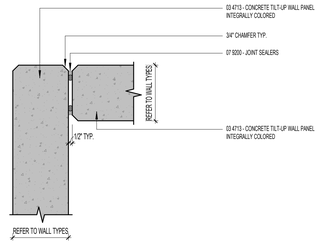
1. REFERENCE B6/ A920 FOR FORMLINER REVEAL DETAILS AND TILT-UP PANEL REVEALS.
2. ALL PIPE PENETRATIONS IN PANELS TO BE COORDINATED WITH PLUMBING AND ELECTRICAL DRAWINGS. FINAL COORDINATION WITH PLUMBING AND ELECTRICAL CONTRACTOR REQUIRED. PROVIDE FLAT SURFACE FOR CORPORNATE WITHIN FORMLINER.
3. ALL MECHANICAL OPENINGS IN PANELS TO BE COORDINATED WITH MECHANICAL DRAWINGS. FINAL COORDINATION WITH MECHANICAL CONTRACTOR REQUIRED.
4. REFERENCE DETAIL A9/A921 FOR BASE DETAILS AT TILT-UP PANEL EDGE. TYPICAL BASE AT TILT-UP PANEL CONDITION.

PANEL NOTES

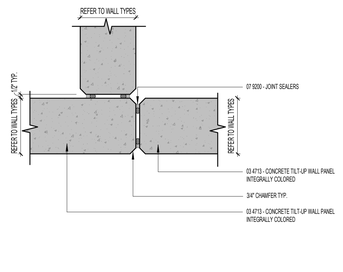
- D.O. DOOR OPENING
- W.O. WINDOW OPENING
- P.O. PANEL OPENING
- M.O. MECHANICAL OPENING
- F.E. RECESS IN PANEL FOR FIRE EXTINGUISHER OPENING. COORDINATE WITH MANUFACTURER FOR ACTUAL DIMENSIONS REQUIRED FOR FIRE EXTINGUISHER CABINET.

naylor wentworth lund
architects

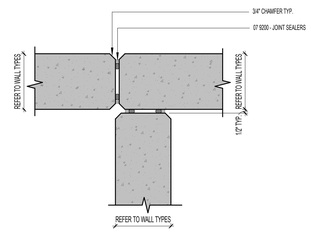
E



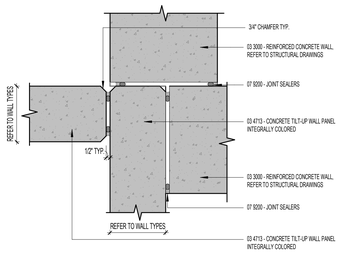
D1 / A920 **TILT-UP DETAIL 14**
1 1/2" = 1'-0"



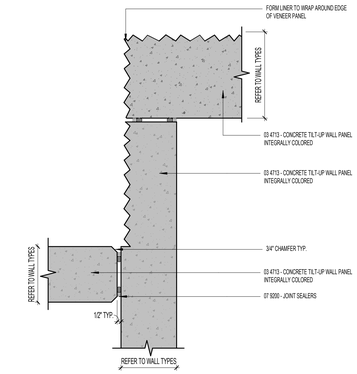
D2 / A920 **TILT-UP DETAIL 15**
1 1/2" = 1'-0"



D3 / A920 **TILT-UP DETAIL 16**
1 1/2" = 1'-0"



D4 / A920 **TILT-UP DETAIL 17**
1 1/2" = 1'-0"



D5 / A920 **TILT-UP DETAIL 13**
1 1/2" = 1'-0"

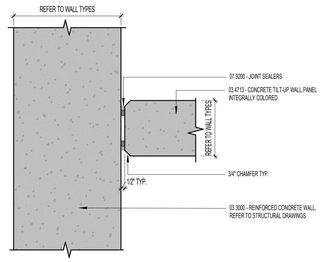
TILT-UP WALL PANEL LEGEND

X"

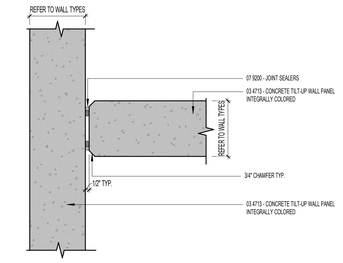
- 7 1/4" — 7 1/4" CONCRETE TILT-UP PANEL; REFER TO TILT-UP PANEL ELEVATIONS, SPECIFICATIONS, AND STRUCTURAL DRAWINGS.
- 9" — 9" CONCRETE TILT-UP SANDWICH PANEL: 9" CONCRETE STRUCTURE TILT-UP PANEL, 2" RIGID INSULATION, 4" CONCRETE VENEER; REFER TO TILT-UP PANEL ELEVATIONS, SPECIFICATIONS, AND STRUCTURAL DRAWINGS.
- 9 1/4" — 9 1/4" CONCRETE TILT-UP PANEL; REFER TO TILT-UP PANEL ELEVATIONS, SPECIFICATIONS, AND STRUCTURAL DRAWINGS.
- 14" — 14" CONCRETE TILT-UP PANEL; REFER TO TILT-UP PANEL ELEVATIONS, SPECIFICATIONS, AND STRUCTURAL DRAWINGS.
- X — CONCRETE TILT-UP SANDWICH PANEL; 2" RIGID INSULATION, 4" CONCRETE VENEER; REFER TO TILT-UP PANEL ELEVATIONS, SPECIFICATIONS, AND STRUCTURAL DRAWINGS.
- SH — CONCRETE TILT-UP SANDWICH PANEL; SANDWICH PANEL BEGINS ABOVE ROOF LINE, 2" RIGID INSULATION, 4" CONCRETE VENEER; REFER TO TILT-UP PANEL ELEVATIONS, SPECIFICATIONS, AND STRUCTURAL DRAWINGS.

NWL-LEGEND - KEYNOTE

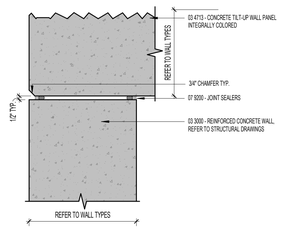
KEY VALUE	NOTE
03.30.A	03 3000 - REINFORCED CONCRETE FOOTING OVER STRUCTURAL FILL, FREE FROM ORGANIC MATERIAL AND DEBRIS, REFER TO STRUCTURAL DRAWINGS
03.30.B	03 3000 - REINFORCED CONCRETE WALL, REFER TO STRUCTURAL DRAWINGS
03.47.A	03 4713 - CONCRETE TILT-UP WALL PANEL INTEGRALLY COLORED
03.47.B	03 4713 - CONCRETE TILT-UP SANDWICH WALL PANEL, INTEGRALLY COLORED; REFER TO TILT PANEL ELEVATIONS & STRUCTURAL DRAWINGS
03.47.C	03 4713 - CONCRETE TILT-UP WALL PANEL FORM LINER
04.27.A	04 2723 - 16" REINFORCED CONCRETE MASONRY, 8" HIGH, 8" WIDE, SPLIT FACE FINISH, REFER TO STRUCTURAL DRAWINGS
05.50.P	05 5000 - STEEL ANGLE, BAR, AND EMBED SYSTEM FOR FOOTING AND TILT-UP PANEL CONNECTION, REFER TO STRUCTURAL DRAWINGS
07.92.B	07 9200 - JOINT SEALERS



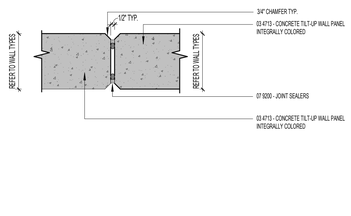
C1 / A920 **TILT-UP DETAIL 9**
1 1/2" = 1'-0"



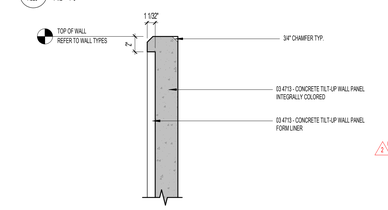
C2 / A920 **TILT-UP DETAIL 10**
1 1/2" = 1'-0"



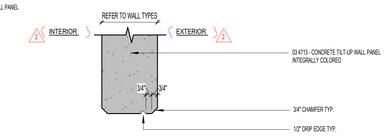
C3 / A920 **TILT-UP DETAIL 11**
1 1/2" = 1'-0"



C4 / A920 **TILT-UP DETAIL 12**
1 1/2" = 1'-0"

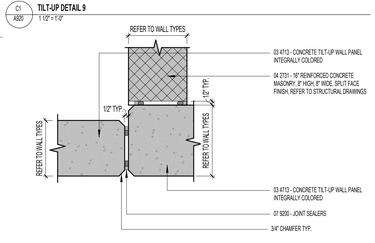


C5 / A920 **TILT-UP DETAIL 18**
1 1/2" = 1'-0"

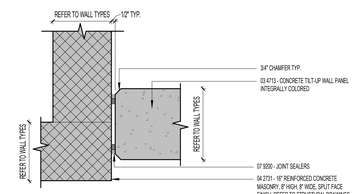


C6 / A920 **TILT-UP DETAIL 25**
1 1/2" = 1'-0"

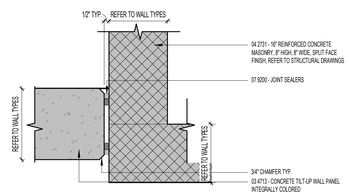
C



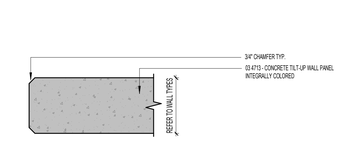
B1 / A920 **TILT-UP DETAIL 5**
1 1/2" = 1'-0"



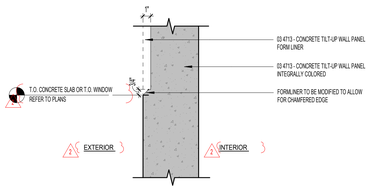
B2 / A920 **TILT-UP DETAIL 6**
1 1/2" = 1'-0"



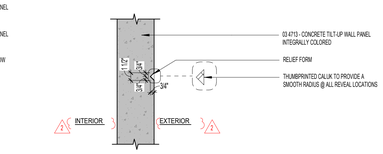
B3 / A920 **TILT-UP DETAIL 7**
1 1/2" = 1'-0"



B4 / A920 **TILT-UP DETAIL 8**
1 1/2" = 1'-0"

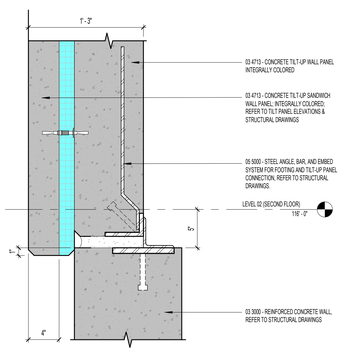


B5 / A920 **TILT-UP DETAIL 26**
1 1/2" = 1'-0"

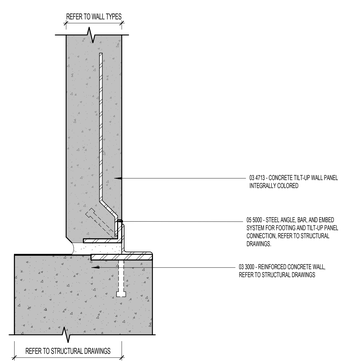


B6 / A920 **TILT-UP REVEAL DETAIL**
1" = 1'-0"

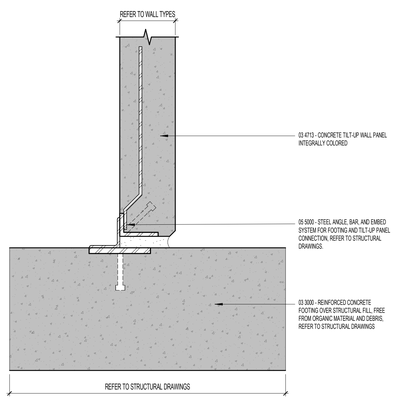
B



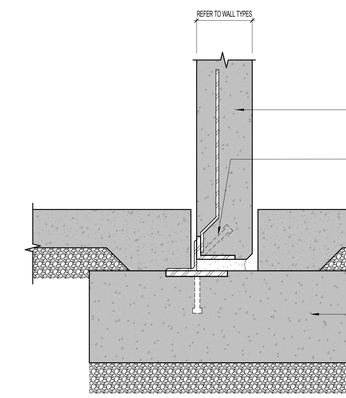
A1 / A920 **TILT-UP DETAIL 1**
1 1/2" = 1'-0"



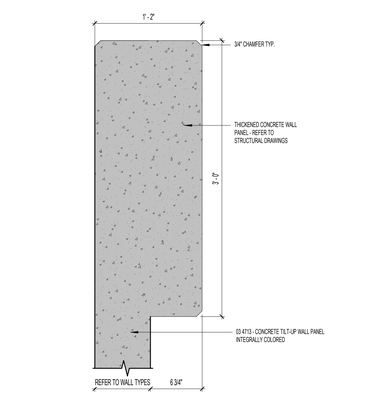
A2 / A920 **TILT-UP DETAIL 2**
1 1/2" = 1'-0"



A3 / A920 **TILT-UP DETAIL 3**
1 1/2" = 1'-0"



A4 / A920 **TILT-UP DETAIL 24**
1 1/2" = 1'-0"



A6 / A920 **TILT-UP DETAIL 4**
1 1/2" = 1'-0"

A

1 2 3 4 5 6

CACHE COUNTY
SCHOOL DISTRICT

HYDE PARK ELEMENTARY SCHOOL
335 EAST 300 NORTH
HYDE PARK, UT
84318

BID SET	
DRAWING ISSUE	03/25/2025
ISSUE DATE	01/10/202
NWL PROJECT	

STATE OF UTAH
NAYLOR WENTWORTH LUND ARCHITECTS
#319164
#183992
#7247356
LICENSED ARCHITECT

△	DATE	REVISION
2	4/8/2025	ADDENDUM 3

TILT UP PANEL DETAILS

A920

GENERAL NOTES - TILT-UP ELEVATION

1. REFERENCE B6/ A505 FOR FORMLINER REVEAL DETAILS AND TILT-UP PANEL REVEALS.
2. ALL PIPE PENETRATIONS IN PANELS TO BE COORDINATED WITH PLUMBING AND ELECTRICAL DRAWINGS. FINAL COORDINATION WITH PLUMBING AND ELECTRICAL CONTRACTOR REQUIRED. PROVIDE FLAT SURFACE FOR CORPORNATE WITHIN FORMLINER.
3. ALL MECHANICAL OPENINGS IN PANELS TO BE COORDINATED WITH MECHANICAL DRAWINGS. FINAL COORDINATION WITH MECHANICAL CONTRACTOR REQUIRED.
4. REFERENCE DETAIL A9/A921 FOR BASE DETAILS AT TILT-UP PANEL EDGE. TYPICAL BASE AT TILT-UP PANEL CONDITION.

PANEL NOTES

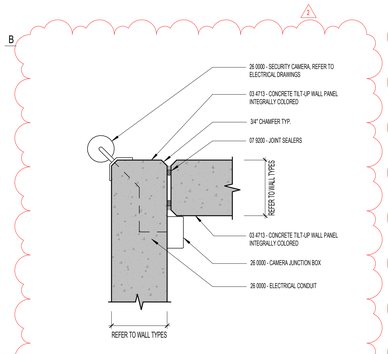
- D.O. DOOR OPENING
- W.O. WINDOW OPENING
- P.O. PANEL OPENING
- M.O. MECHANICAL OPENING
- F.E. RECESS IN PANEL FOR FIRE EXTINGUISHER OPENING. COORDINATE WITH MANUFACTURER FOR ACTUAL DIMENSIONS REQUIRED FOR FIRE EXTINGUISHER CABINET.

TILT-UP WALL PANEL LEGEND

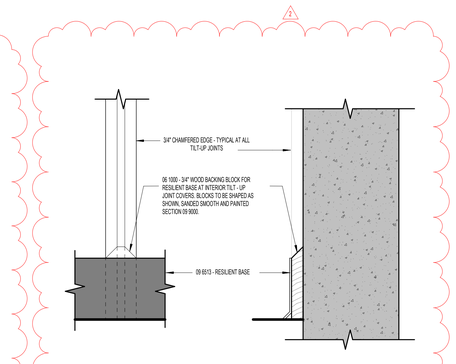
X"	
7 1/4"	7 1/4" CONCRETE TILT-UP PANEL; REFER TO TILT-UP PANEL ELEVATIONS, SPECIFICATIONS, AND STRUCTURAL DRAWINGS.
9"	9" CONCRETE TILT-UP SANDWICH PANEL: 9" CONCRETE STRUCTURE TILT-UP PANEL, 2" RIGID INSULATION, 4" CONCRETE VENEER; REFER TO TILT-UP PANEL ELEVATIONS, SPECIFICATIONS, AND STRUCTURAL DRAWINGS.
9 1/4"	9 1/4" CONCRETE TILT-UP PANEL; REFER TO TILT-UP PANEL ELEVATIONS, SPECIFICATIONS, AND STRUCTURAL DRAWINGS.
14"	14" CONCRETE TILT-UP PANEL; REFER TO TILT-UP PANEL ELEVATIONS, SPECIFICATIONS, AND STRUCTURAL DRAWINGS.
2	CONCRETE TILT-UP SANDWICH PANEL: 2" RIGID INSULATION, 4" CONCRETE VENEER; REFER TO TILT-UP PANEL ELEVATIONS, SPECIFICATIONS, AND STRUCTURAL DRAWINGS.
SH	CONCRETE TILT-UP SANDWICH PANEL: [illegible] CONCRETE VENEER; REFER TO TILT-UP PANEL ELEVATIONS, SPECIFICATIONS, AND STRUCTURAL DRAWINGS.

NWL LEGEND - KEYNOTE

KEY VALUE	NOTE
03 47 A	03 4713 - CONCRETE TILT-UP WALL PANEL INTEGRALLY COLORED
06 10 J	06 1000 - 3/4" WOOD BACKING BLOCK FOR RESILIENT BASE AT INTERIOR TILT - UP JOINT COVERS. BLOCKS TO BE SHAPED AS SHOWN, SANDED SMOOTH AND PAINTED SECTION 09 9000.
07 92 B	07 9200 - JOINT SEALERS
09 65 E	09 6513 - RESILIENT BASE
26 15	26 0000 - SECURITY CAMERA; REFER TO ELECTRICAL DRAWINGS



A1 / A921 CAMERA WIRING THROUGH TILT-UP DETAIL
1 1/2" = 1'-0"



A2 / A921 BLOCKING AT CHAMFERED EDGE
3" = 1'-0"

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SCHOOL DISTRICT

HYDE PARK ELEMENTARY SCHOOL
330 EAST 300 NORTH
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84318

DRAWING ISSUE	BID SET
ISSUE DATE	03/25/2025
NWL PROJECT	0119.002

STATE OF UTAH
NAYLOR WENTWORTH LUND ARCHITECTS
#319164
#183992
#7247356
LICENSED ARCHITECT

	DATE	REVISION
2	4/8/2025	ADDENDUM 3

TILT UP PANEL DETAILS

A921

CACHE • LANDMARK
ENGINEERS • SURVEYORS • PLANNERS

ADDENDUM #3

DATE:	April 8, 2025

FROM:	**LANCE ANDERSON**	
	Cache Landmark Engineering	435.770.3441 C
	95 West Golf Course Road Ste. 101	435.713.0099 T
	Logan, UT 84321	lance@cachelandmark.com

PROJECT:	**Hyde Park Elementary School**

The following changes have been made to the Bidding Documents:

1. **Construction Drawings**
   a. **REVISED –** The grading and layout of the sidewalk near the south entrance has been revised to allow for ADA ramp access.
   b. **ADDED –** As part of the grading revisions a 4' tall rockery wall was added to the east of the access road.
   c. **ADDED** – Concrete sidewalks have been added to the west side of the entrance to provide future connection to the ADA ramps
   d. **RELOCATED -** SD Box #B-1 was relocated as part of the regrading along the south entrance. Rim, sump, and invert elevations were adjusted accordingly.

These changes have been clouded on the attached plans.

Addendum #3 is hereby issued on April 8, 2025

Cache-Landmark Engineering
Lance Anderson

PLAN NOTES

1. ALL EXISTING HARDSCAPE FEATURES, LANDSCAPING AND IRRIGATION SYSTEMS THAT ARE DAMAGED OR DISTURBED DURING CONSTRUCTION ARE TO BE REPAIRED OR REPLACED AT CONTRACTORS EXPENSE.
2. ALL UTILITIES TO BE PROTECTED IN PLACE UNLESS SPECIFIED OTHERWISE.
3. ALL TREES NOT SPECIFICALLY NOTED FOR REMOVAL TO BE PROTECTED IN PLACE INCLUDING PROTECTION OF EXISTING GRADES TO DRIP LINE.
4. ANY TOPSOIL STRIPPED DURING CONSTRUCTION TO BE STOCKPILED AND PROTECTED FOR REUSE WHERE POSSIBLE.
5. ALL UTILITIES ARE SHOWN BASED ON GROUND EVIDENCE AND UTILITY PROVIDER RECORDS. CONTRACTOR IS TO VERIFY LOCATION AND ELEVATION OF EXISTING UTILITIES.

0 20' 40' 80'
GRAPHIC SCALE 1"= 40'

DEMO & EXISTING CONDITIONS

SCALE: 1"=40'

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333 EAST 300 NORTH
HYDE PARK CITY, UT
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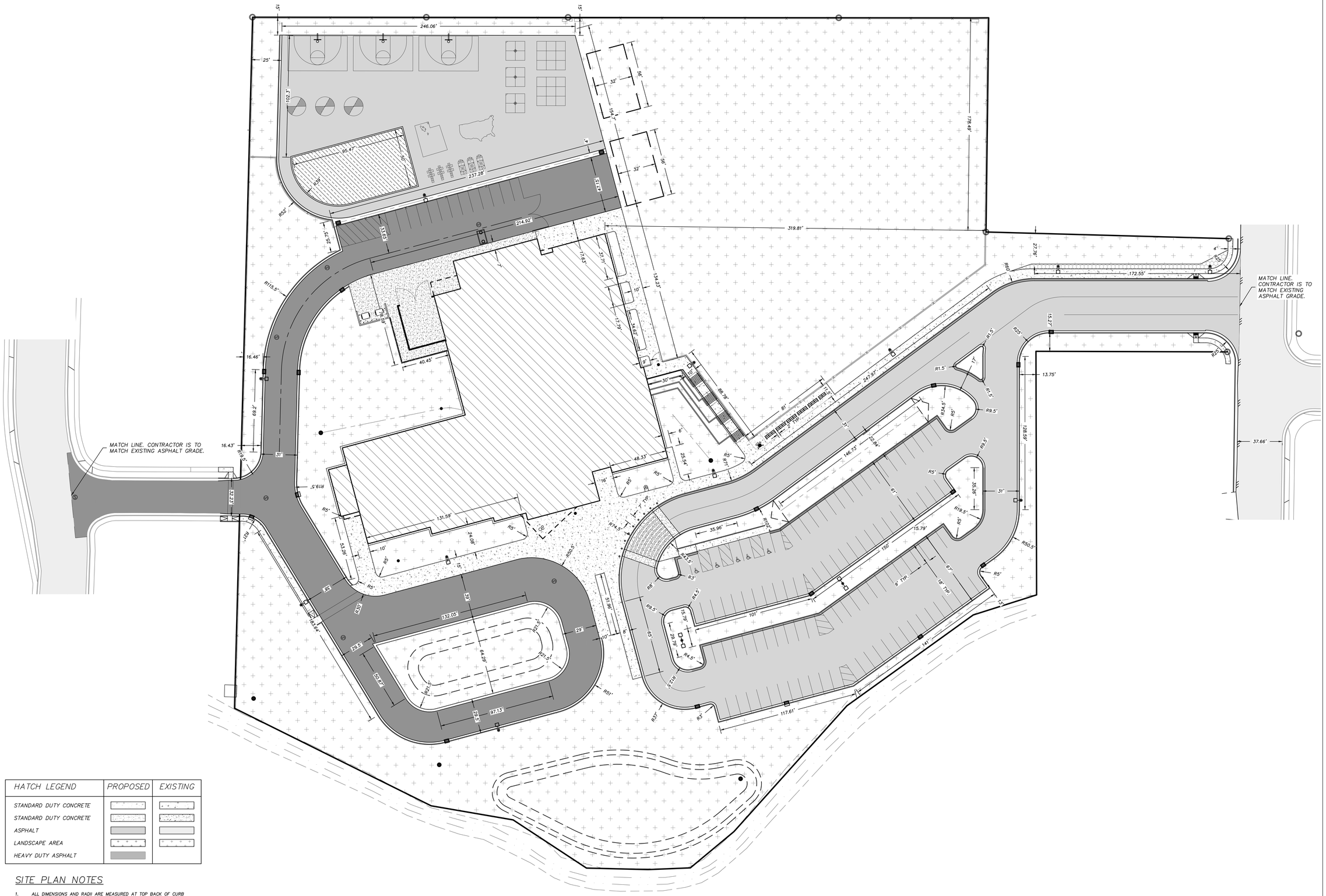
DRAWING ISSUE	BID SET ADD. 2
ISSUE DATE	04/08/25
NWL PROJECT	0110.002

PROFESSIONAL ENGINEER
LEE ANDERSON
4/8/25
STATE OF UTAH

	DATE	REVISION
1	4/1/25	ADDENDUM 2
2	4/8/25	ADDENDUM 3

DEMO PLAN
EXISTING CONDITIONS

CD101



HATCH LEGEND	PROPOSED	EXISTING
STANDARD DUTY CONCRETE		
STANDARD DUTY CONCRETE		
ASPHALT		
LANDSCAPE AREA		
HEAVY DUTY ASPHALT		

SITE PLAN NOTES

1. ALL DIMENSIONS AND RADII ARE MEASURED AT TOP BACK OF CURB UNLESS STATED OTHERWISE OR WHERE NO CURB EXISTS.
2. ALL EXISTING HARDSCAPE FEATURES, LANDSCAPING AND IRRIGATION SYSTEMS THAT ARE DAMAGED OR DISTURBED DURING CONSTRUCTION ARE TO BE REPAIRED OR REPLACED AT CONTRACTORS EXPENSE.
3. ALL WORK TO COMPLY WITH HYDE PARK CITY STANDARDS AND SPECIFICATIONS.
4. ALL IMPROVEMENTS TO COMPLY WITH ADA STANDARDS.
5. ALL PAVEMENT MARKINGS TO CONFORM WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).

HORIZONTAL CONTROL

SCALE: 1"=40'

0 20' 40' 80'
GRAPHIC SCALE 1"= 40'

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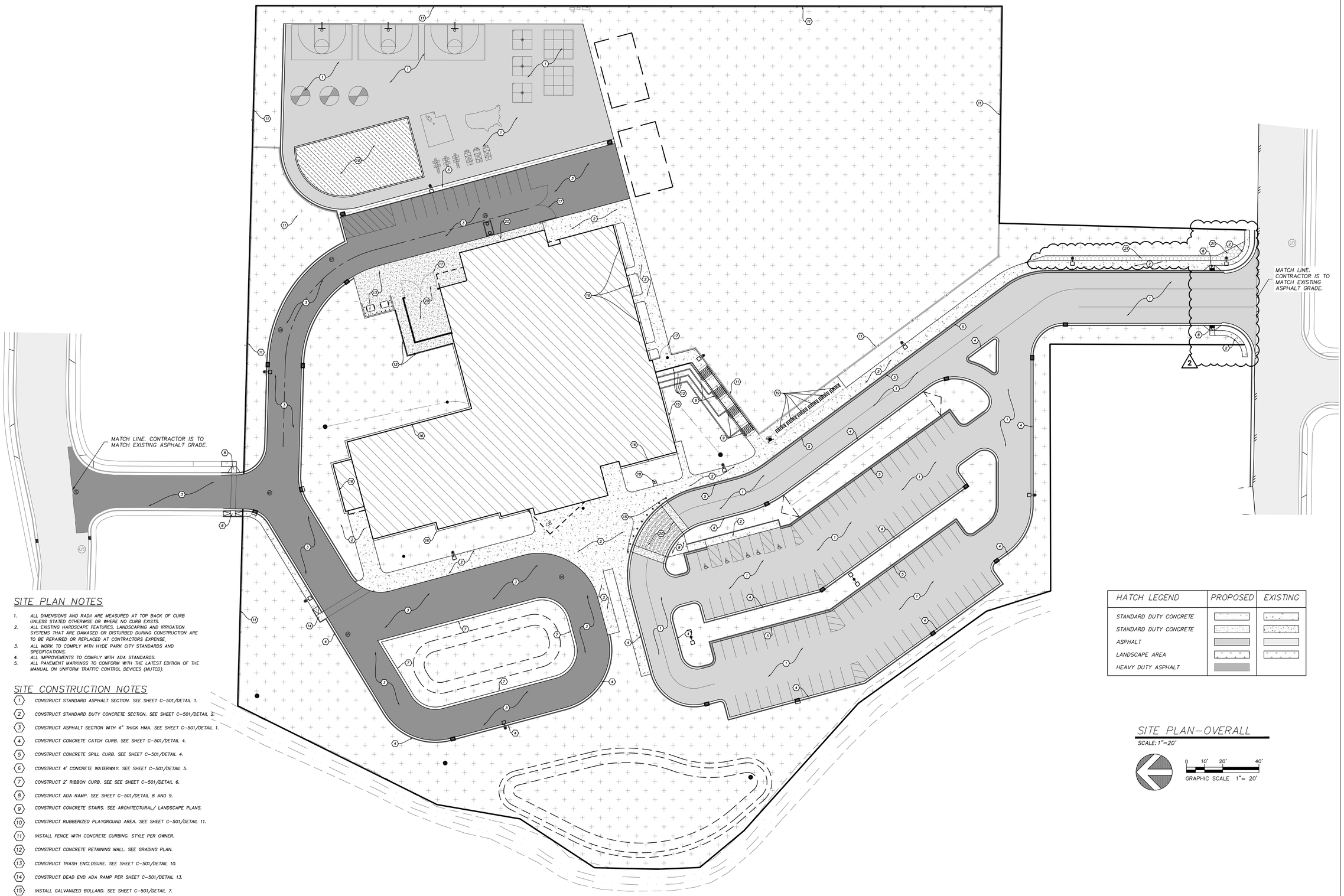
DRAWING ISSUE	BID SET ADD. 2
ISSUE DATE	04/08/25
NWL PROJECT	0119.002

PROFESSIONAL ENGINEER
LANCE ANDERSON
4/8/25
STATE OF UTAH

	DATE	REVISION
1	4/1/25	ADDENDUM 2
2	4/8/25	ADDENDUM 3

SITE PLAN
HORIZONTAL CONTROL

CS201



SITE PLAN NOTES

1. ALL DIMENSIONS AND RADII ARE MEASURED AT TOP BACK OF CURB UNLESS STATED OTHERWISE OR WHERE NO CURB EXISTS.
2. ALL EXISTING HARDSCAPE FEATURES, LANDSCAPING AND IRRIGATION SYSTEMS THAT ARE DAMAGED OR DISTURBED DURING CONSTRUCTION ARE TO BE REPAIRED OR REPLACED AT CONTRACTORS EXPENSE.
3. ALL WORK TO COMPLY WITH HYDE PARK CITY STANDARDS AND SPECIFICATIONS.
4. ALL IMPROVEMENTS TO COMPLY WITH ADA STANDARDS.
5. ALL PAVEMENT MARKINGS TO CONFORM WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).

SITE CONSTRUCTION NOTES

1. CONSTRUCT STANDARD ASPHALT SECTION. SEE SHEET C-501/DETAIL 1.
2. CONSTRUCT STANDARD DUTY CONCRETE SECTION. SEE SHEET C-501/DETAIL 2.
3. CONSTRUCT ASPHALT SECTION WITH 4" THICK HMA. SEE SHEET C-501/DETAIL 1.
4. CONSTRUCT CONCRETE CATCH CURB. SEE SHEET C-501/DETAIL 4.
5. CONSTRUCT CONCRETE SPILL CURB. SEE SHEET C-501/DETAIL 4.
6. CONSTRUCT 4' CONCRETE WATERWAY. SEE SHEET C-501/DETAIL 5.
7. CONSTRUCT 2' RIBBON CURB. SEE SEE SHEET C-501/DETAIL 6.
8. CONSTRUCT ADA RAMP. SEE SHEET C-501/DETAIL 8 AND 9.
9. CONSTRUCT CONCRETE STAIRS. SEE ARCHITECTURAL/ LANDSCAPE PLANS.
10. CONSTRUCT RUBBERIZED PLAYGROUND AREA. SEE SHEET C-501/DETAIL 11.
11. INSTALL FENCE WITH CONCRETE CURBING. STYLE PER OWNER.
12. CONSTRUCT CONCRETE RETAINING WALL. SEE GRADING PLAN.
13. CONSTRUCT TRASH ENCLOSURE. SEE SHEET C-501/DETAIL 10.
14. CONSTRUCT DEAD END ADA RAMP PER SHEET C-501/DETAIL 13.
15. INSTALL GALVANIZED BOLLARD. SEE SHEET C-501/DETAIL 7.
16. CONSTRUCT 18" CONCRETE APRON AROUND BUILDING.
17. INSTALL GATE. STYLE PER OWNER.
18. INSTALL FLAG POLE. SEE ARCHITECTURAL PLANS.
19. INSTALL BARCO 18 BIKE POWDER COATED BIKE RACK OR EQUIVALENT. SEE LANDSCAPE AND ARCHITECTURAL PLANS.
20. CONSTRUCT HEAVY-DUTY CONCRETE SECTION. SEE SHEET C-501/DETAIL 3.
21. CONSTRUCT 4 FOOT TALL ROCKERY WALL. WALL TO BE CONSTRUCTED AT 1:1 SLOPE. 2

HATCH LEGEND	PROPOSED	EXISTING
STANDARD DUTY CONCRETE		
STANDARD DUTY CONCRETE		
ASPHALT		
LANDSCAPE AREA		
HEAVY DUTY ASPHALT		

SITE PLAN-OVERALL

SCALE: 1"=20'

0 10' 20' 40'
GRAPHIC SCALE 1"= 20'

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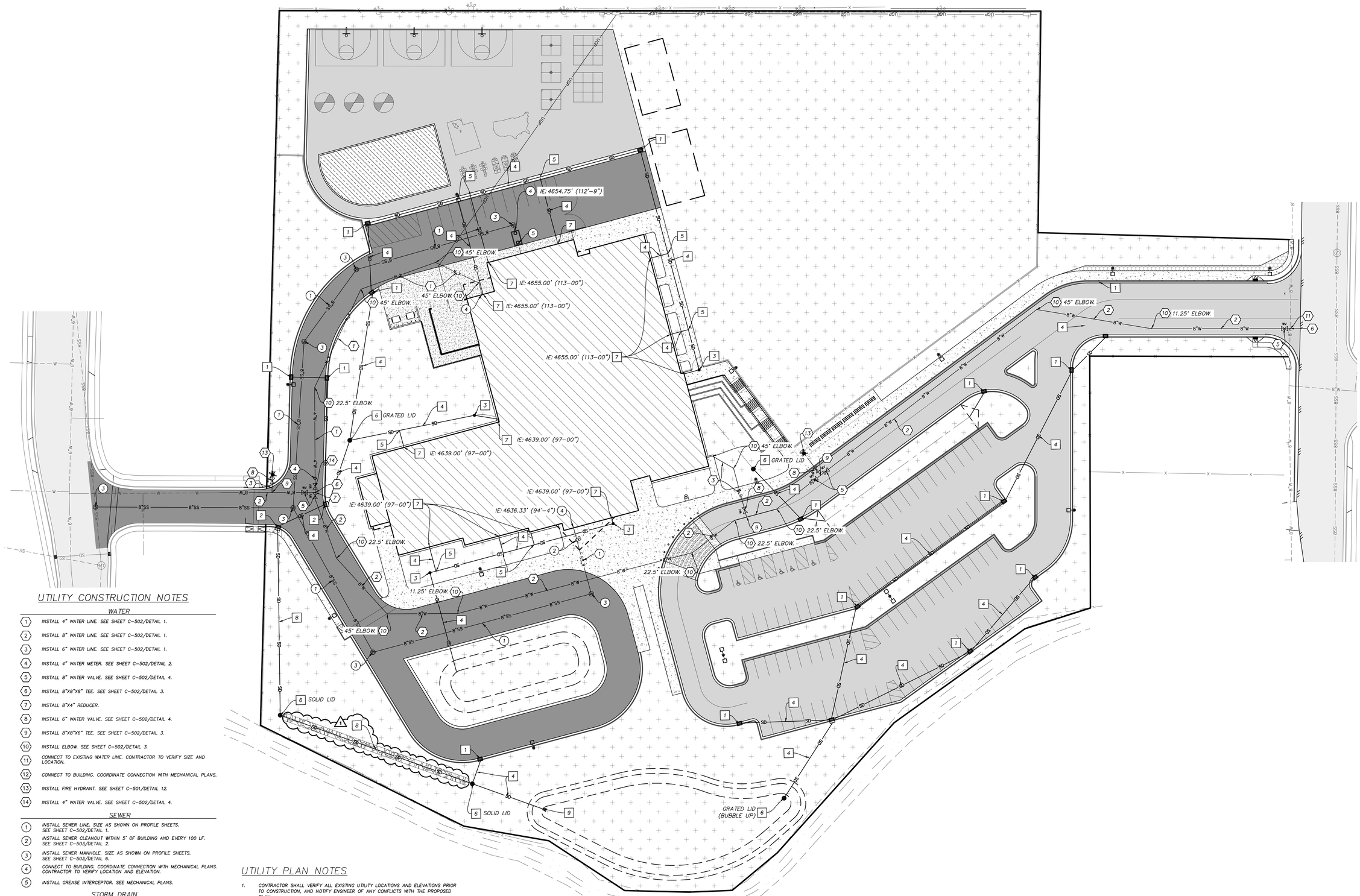
NWL PROJECT 0119.002

PROFESSIONAL ENGINEER
LANCE ANDERSON
STATE OF UTAH
4/8/25

DATE	REVISION
4/1/25	ADDENDUM 2
4/8/25	ADDENDUM 3

SITE PLAN
OVERALL

CS202



UTILITY CONSTRUCTION NOTES

WATER

1. INSTALL 4" WATER LINE. SEE SHEET C-502/DETAIL 1.
2. INSTALL 8" WATER LINE. SEE SHEET C-502/DETAIL 1.
3. INSTALL 6" WATER LINE. SEE SHEET C-502/DETAIL 1.
4. INSTALL 4" WATER METER. SEE SHEET C-502/DETAIL 2.
5. INSTALL 8" WATER VALVE. SEE SHEET C-502/DETAIL 4.
6. INSTALL 8"X8"X8" TEE. SEE SHEET C-502/DETAIL 3.
7. INSTALL 8"X4" REDUCER.
8. INSTALL 6" WATER VALVE. SEE SHEET C-502/DETAIL 4.
9. INSTALL 8"X8"X6" TEE. SEE SHEET C-502/DETAIL 3.
10. INSTALL ELBOW. SEE SHEET C-502/DETAIL 3.
11. CONNECT TO EXISTING WATER LINE. CONTRACTOR TO VERIFY SIZE AND LOCATION.
12. CONNECT TO BUILDING. COORDINATE CONNECTION WITH MECHANICAL PLANS.
13. INSTALL FIRE HYDRANT. SEE SHEET C-501/DETAIL 12.
14. INSTALL 4" WATER VALVE. SEE SHEET C-502/DETAIL 4.

SEWER

1. INSTALL SEWER LINE. SIZE AS SHOWN ON PROFILE SHEETS. SEE SHEET C-502/DETAIL 1.
2. INSTALL SEWER CLEANOUT WITHIN 5' OF BUILDING AND EVERY 100 LF. SEE SHEET C-503/DETAIL 2.
3. INSTALL SEWER MANHOLE. SIZE AS SHOWN ON PROFILE SHEETS. SEE SHEET C-503/DETAIL 6.
4. CONNECT TO BUILDING. COORDINATE CONNECTION WITH MECHANICAL PLANS. CONTRACTOR TO VERIFY LOCATION AND ELEVATION.
5. INSTALL GREASE INTERCEPTOR. SEE MECHANICAL PLANS.

STORM DRAIN

1. INSTALL 2'X3' STORM DRAIN INLET BOX. SEE SHEET C-503/DETAIL 1.
2. INSTALL 3'X3' STORM DRAIN CURB INLET BOX. SEE SHEET C-503/DETAIL 2.
3. INSTALL 18" NYOPLAST (OR EQUIVALENT) IN-LINE PLASTIC DRAIN BOX. SEE SHEET C-503/DETAIL 3.
4. INSTALL STORM DRAIN PIPE. SEE SHEET CU302 FOR MATERIAL, SIZE, AND ELEVATION INFORMATION. SEE SHEET C-503/DETAIL 5.
5. CONNECT ROOF DRAIN LINE TO STORM DRAIN LINE WITH INSERTA-TEE.
6. INSTALL 30" DIAMETER STORM DRAIN CATCH BASIN. SEE SHEET C-503/DETAIL4.
7. CONNECT TO ROOF DRAIN. COORDINATE WITH MECHANICAL PLANS.
8. INSTALL INFILTRATION PIPE SECTION IN HATCHED AREA. SEE SHEET C-502/DETAIL 7. (1)
9. INSTALL FLARED END SECTION AND TRASH RACK. SEE SHEET C-503/DETAIL 6.

UTILITY PLAN NOTES

1. CONTRACTOR SHALL VERIFY ALL EXISTING UTILITY LOCATIONS AND ELEVATIONS PRIOR TO CONSTRUCTION, AND NOTIFY ENGINEER OF ANY CONFLICTS WITH THE PROPOSED PLAN.
2. ALL EXISTING UTILITIES TO BE PROTECTED IN PLACE UNLESS NOTED OTHERWISE ON DEMO PLAN.
3. ALL EXISTING HARDSCAPE FEATURES, LANDSCAPING AND IRRIGATION SYSTEMS THAT ARE DAMAGED OR DISTURBED DURING CONSTRUCTION ARE TO BE REPAIRED OR REPLACED AT CONTRACTORS EXPENSE.
4. ALL WORK TO COMPLY WITH GOVERNING AGENCIES STANDARDS AND SPECIFICATIONS.
5. ALL STORM DRAIN BOXES TO HAVE 1 FOOT MINIMUM SUMP UNLESS SPECIFIED OTHERWISE.
6. CONTRACTOR TO FIELD VERIFY ALL DEPTHS AND LOCATIONS OF UTILITY CONNECTIONS.
7. ALL WATER FITTINGS TO HAVE THRUST BLOCK, SEE SHEET C-503/DETAIL 3.
8. ALL WATER LINES TO BE C900 PVC.
9. ALL SEWER LINES TO BE SDR-35 PVC.
10. ALL WATER LINES TO HAVE A MINIMUM OF 5' OF COVER TO FG.
11. ALL STORMWATER PIPE TO HAVE MINIMUM OF 18" OF COVER TO FG UNLESS NOTED OTHERWISE.
12. WATER AND SEWER LINES TO HAVE MINIMUM 18" OF VERTICAL SEPARATION WHERE CONFLICTS OCCUR. STORMWATER LINES TO HAVE 6" MINIMUM VERTICAL SEPARATION FROM OTHER UTILITY LINES. EXCEPTIONS NOTED. LOOP WATER LINES WHERE NECESSARY.

UTILITY PLAN

SCALE: 1"=30'

0 15' 30' 60'
GRAPHIC SCALE 1"= 30'

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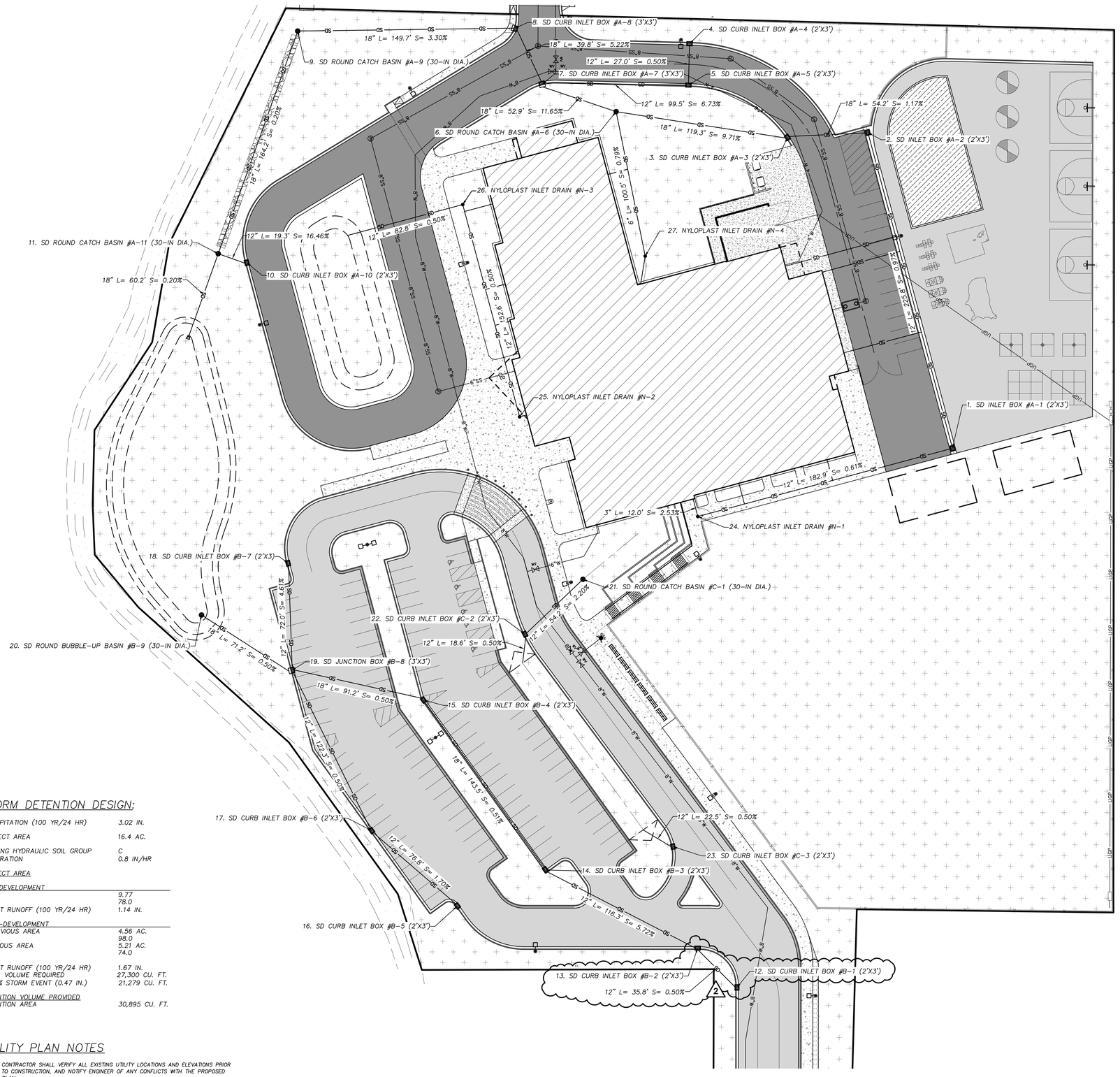
NWL PROJECT	0110.002

PROFESSIONAL ENGINEER
JESSE ANDERSON
STATE OF UTAH
4/8/25

DATE	REVISION
4/1/25	ADDENDUM 2
4/8/25	ADDENDUM 3

UTILITY PLAN
UTILITY LAYOUT

CU301



STORM DETENTION DESIGN:

PRECIPITATION (100 YR/24 HR)	3.02 IN.
PROJECT AREA	16.4 AC.
EXISTING HYDRAULIC SOIL GROUP	C
INFILTRATION	0.8 IN/HR
PROJECT AREA	
PRE-DEVELOPMENT	
AREA	9.77
CN	78.0
DIRECT RUNOFF (100 YR/24 HR)	1.14 IN.
POST-DEVELOPMENT	
IMPERVIOUS AREA	4.56 AC.
CN	98.0
PERVIOUS AREA	5.21 AC.
CN	74.0
DIRECT RUNOFF (100 YR/24 HR)	1.67 IN.
TOTAL VOLUME REQUIRED	27,300 CU. FT.
80TH% STORM EVENT (0.47 IN.)	21,279 CU. FT.
DETENTION VOLUME PROVIDED	
DETENTION AREA	30,895 CU. FT.

UTILITY PLAN NOTES

1. CONTRACTOR SHALL VERIFY ALL EXISTING UTILITY LOCATIONS AND ELEVATIONS PRIOR TO CONSTRUCTION, AND NOTIFY ENGINEER OF ANY CONFLICTS WITH THE PROPOSED PLAN.
2. ALL EXISTING UTILITIES TO BE PROTECTED IN PLACE UNLESS NOTED OTHERWISE ON DEMO PLAN.
3. ALL EXISTING HARDSCAPE FEATURES, LANDSCAPING AND IRRIGATION SYSTEMS THAT ARE DAMAGED OR DISTURBED DURING CONSTRUCTION ARE TO BE REPAIRED OR REPLACED AT CONTRACTORS EXPENSE.
4. ALL WORK TO COMPLY WITH GOVERNING AGENCIES STANDARDS AND SPECIFICATIONS.
5. ALL STORM DRAIN BOXES TO HAVE 1 FOOT MINIMUM SUMP UNLESS SPECIFIED OTHERWISE.
6. CONTRACTOR TO FIELD VERIFY ALL DEPTHS AND LOCATIONS OF UTILITY CONNECTIONS.
7. ALL WATER FITTINGS TO HAVE THRUST BLOCK, SEE SHEET C-503/DETAIL 3.
8. ALL WATER LINES TO BE C900 PVC.
9. ALL SEWER LINES TO BE SDR-35 PVC.
10. ALL WATER LINES TO HAVE A MINIMUM OF 5' OF COVER TO FG.
11. ALL STORMWATER PIPE TO HAVE MINIMUM OF 18" OF COVER TO FG UNLESS NOTED OTHERWISE.
12. WATER AND SEWER LINES TO HAVE MINIMUM 18" OF VERTICAL SEPARATION WHERE CONFLICTS OCCUR. STORMWATER LINES TO HAVE 6" MINIMUM VERTICAL SEPARATION FROM OTHER UTILITY LINES. EXCEPTIONS NOTED. LOOP WATER LINES WHERE NECESSARY.

STORM DRAIN BOX TABLE

BOX NUMBER	ELEVATIONS
1. SD INLET BOX #A-1 (2'X3')	RIM = 4656.56' IE IN 12" W = 4653.56' IE OUT 12" N = 4653.46' SUMP = 4652.46'
2. SD INLET BOX #A-2 (2'X3')	RIM = 4654.24' IE IN 12" S = 4651.24' IE OUT 18" W = 4650.54' SUMP = 4649.54'
3. SD CURB INLET BOX #A-3 (2'X3')	RIM = 4653.38' IE IN 18" E = 4649.88' IE OUT 18" W = 4649.78' SUMP = 4648.78'
4. SD CURB INLET BOX #A-4 (2'X3')	RIM = 4641.94' IE OUT 12" S = 4639.00' SUMP = 4638.00'
5. SD CURB INLET BOX #A-5 (2'X3')	RIM = 4642.48' IE IN 12" N = 4638.86' IE OUT 12" W = 4638.86' SUMP = 4638.86'
6. SD ROUND CATCH BASIN #A-6 (30-IN DIA.)	RIM = 4641.50' IE IN 6" S = 4638.00' IE IN 18" E = 4638.00' IE OUT 18" W = 4637.90' SUMP = 4636.90'
7. SD CURB INLET BOX #A-7 (3'X3')	RIM = 4634.18' IE IN 18" E = 4631.46' IE IN 12" E = 4631.96' IE OUT 18" NW = 4631.36' SUMP = 4630.36'
8. SD CURB INLET BOX #A-8 (3'X3')	RIM = 4632.59' IE IN 18" SE = 4629.09' IE OUT 18" W = 4628.99' SUMP = 4627.99'
9. SD ROUND CATCH BASIN #A-9 (30-IN DIA.)	RIM = 4626.77' IE IN 18" E = 4623.97' IE OUT 18" S = 4623.97' SUMP = 4622.97'
10. SD CURB INLET BOX #A-10 (2'X3')	RIM = 4635.13' IE OUT 12" W = 4632.20' SUMP = 4631.20'
11. SD ROUND CATCH BASIN #A-11 (30-IN DIA.)	RIM = 4631.69' IE IN 12" E = 4628.75' IE IN 18" N = 4623.64' IE OUT 18" S = 4623.64' SUMP = 4622.64'
2 12. SD CURB INLET BOX #B-1 (2'X3')	RIM = 4640.80' IE OUT 12" NW = 4636.19' SUMP = 4635.19'
13. SD CURB INLET BOX #B-2 (2'X3')	RIM = 4636.90' IE IN 12" SE = 4636.00' IE OUT 12" NW = 4635.90' SUMP = 4634.90'
14. SD CURB INLET BOX #B-3 (2'X3')	RIM = 4632.05' IE IN 12" SE = 4629.05' IE OUT 18" NW = 4628.55' SUMP = 4627.55'
15. SD CURB INLET BOX #B-4 (2'X3')	RIM = 4635.55' IE IN 18" SE = 4627.80' IE OUT 18" W = 4627.70' SUMP = 4626.70'
16. SD CURB INLET BOX #B-5 (2'X3')	RIM = 4627.44' IE OUT 12" NW = 4624.47' SUMP = 4623.47'
17. SD CURB INLET BOX #B-6 (2'X3')	RIM = 4626.09' IE IN 12" SE = 4623.11' IE OUT 12" NW = 4623.01' SUMP = 4622.01'
18. SD CURB INLET BOX #B-7 (2'X3)	RIM = 4633.74' IE OUT 12" S = 4630.76' SUMP = 4629.76'
19. SD JUNCTION BOX #B-8 (3'X3')	RIM = 4629.51' IE IN 18" E = 4627.23' IE IN 12" N = 4627.30' IE IN 12" SE = 4622.38' IE OUT 18" NW = 4622.07' SUMP = 4621.07'
20. SD ROUND BUBBLE-UP BASIN #B-9 (30-IN DIA.)	RIM = 4624.00' IE IN 18" SE = 4621.70' SUMP = 4620.70'
21. SD ROUND CATCH BASIN #C-1 (30-IN DIA.)	RIM = 4639.41' IE OUT 12" SW = 4636.41' SUMP = 4635.41'
22. SD CURB INLET BOX #C-2 (2'X3')	RIM = 4638.18' IE IN 12" NE = 4635.18' IE OUT 12" S = 4635.10' SUMP = 4634.10'
23. SD CURB INLET BOX #C-3 (2'X3')	RIM = 4635.70' IE OUT 12" NW = 4633.70' SUMP = 4632.70'
24. NYLOPLAST INLET DRAIN #N-1	RIM = 4657.68' IE IN 3" N = 4654.68' IE OUT 12" E = 4654.68' SUMP = 4654.68'
25. NYLOPLAST INLET DRAIN #N-2	RIM = 4641.32' IE IN 6" E = 4638.89' IE OUT 12" N = 4638.79' SUMP = 4637.79'
26. NYLOPLAST INLET DRAIN #N-3	RIM = 4641.30' IE IN 12" S = 4638.02' IE OUT 12" W = 4637.92' SUMP = 4636.92'
27. NYLOPLAST INLET DRAIN #N-4	RIM = 4643.97' IE IN 6" S = 4638.81' IE OUT 6" N = 4638.81' SUMP = 4638.81'

STORMWATER PLAN

SCALE: 1"=40'

0 20' 40' 80'

GRAPHIC SCALE 1"= 40'

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DRAWING ISSUE	BID SET ADD. 2
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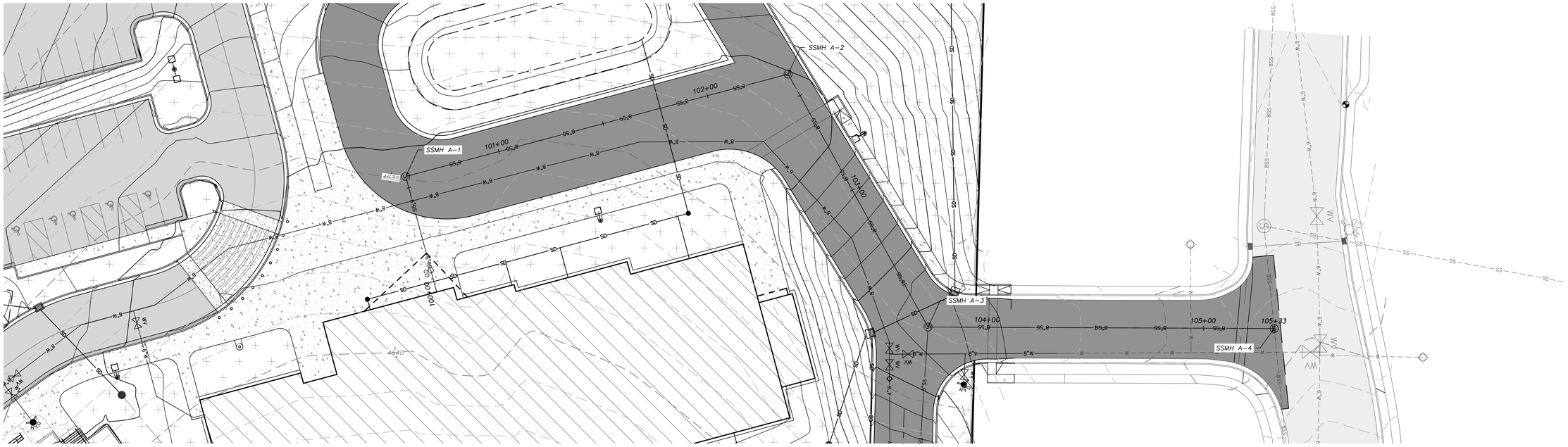
PROFESSIONAL ENGINEER
CHARLES ALLAN BIRSON
STATE OF UTAH
4/8/25

DATE	REVISION
4/1/25	ADDENDUM 2
4/8/25	ADDENDUM 3

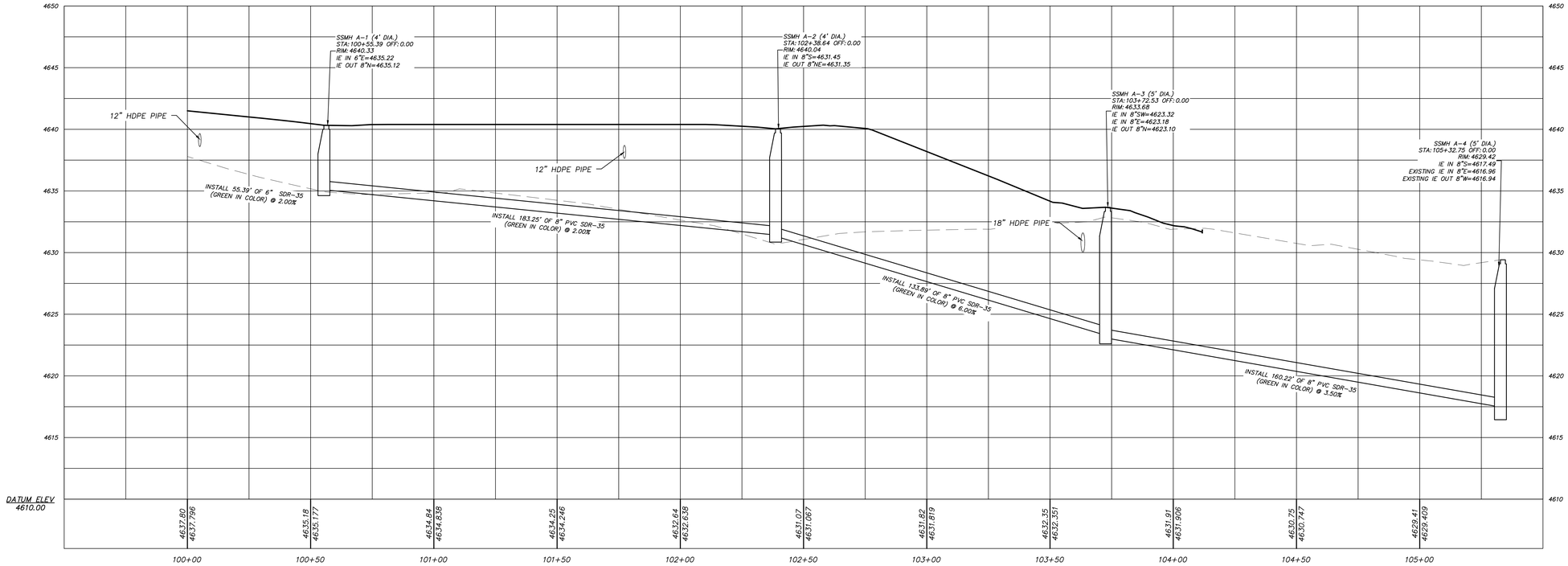
UTILITY PLAN
STORM DRAIN PLAN

CU302



SEWER PLAN

SCALE: 1"=20'



LOWER SEWER CONNECTION PROFILE

SEWER PROFILE

SCALE: H: 1"=20' V: 1"=4'

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DRAWING ISSUE	BID SET ADD. 2
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PROFESSIONAL ENGINEER
JAMES ANDERSON
8207877
4/8/25
STATE OF UTAH

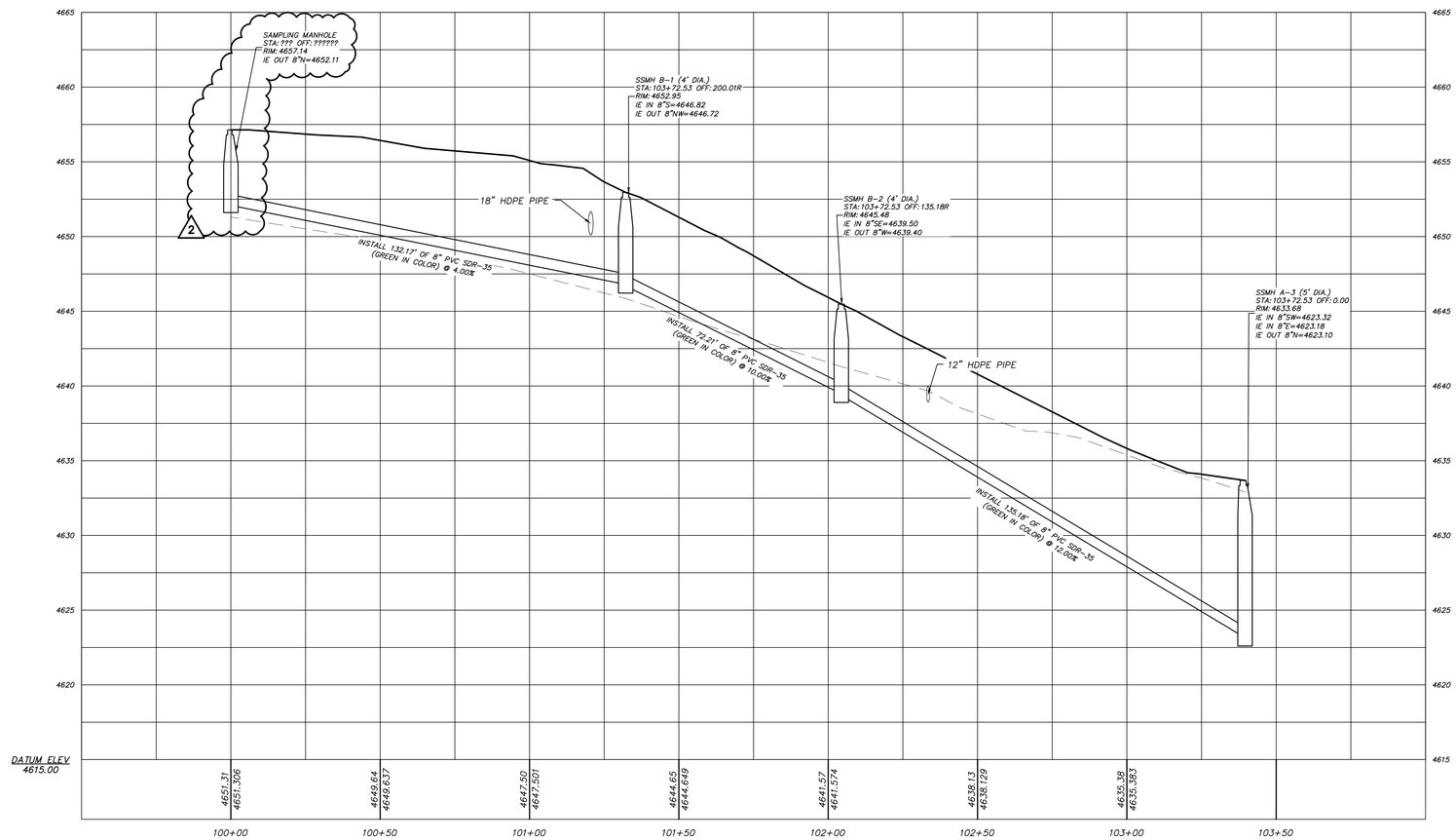
	DATE	REVISION
1	4/1/25	ADDENDUM 2
2	4/8/25	ADDENDUM 3

UTILITY PLAN
SEWER PLAN & PROFILE

CU303

SEWER PLAN

SCALE: 1"=20'



UPPER SEWER CONNECTION PROFILE

SEWER PROFILE

SCALE: H: 1"=20' V: 1"=4'

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CACHE COUNTY
SCHOOL DISTRICT

HYDE PARK ELEMENTARY SCHOOL

333 EAST 300 NORTH
HYDE PARK CITY, UT
84335

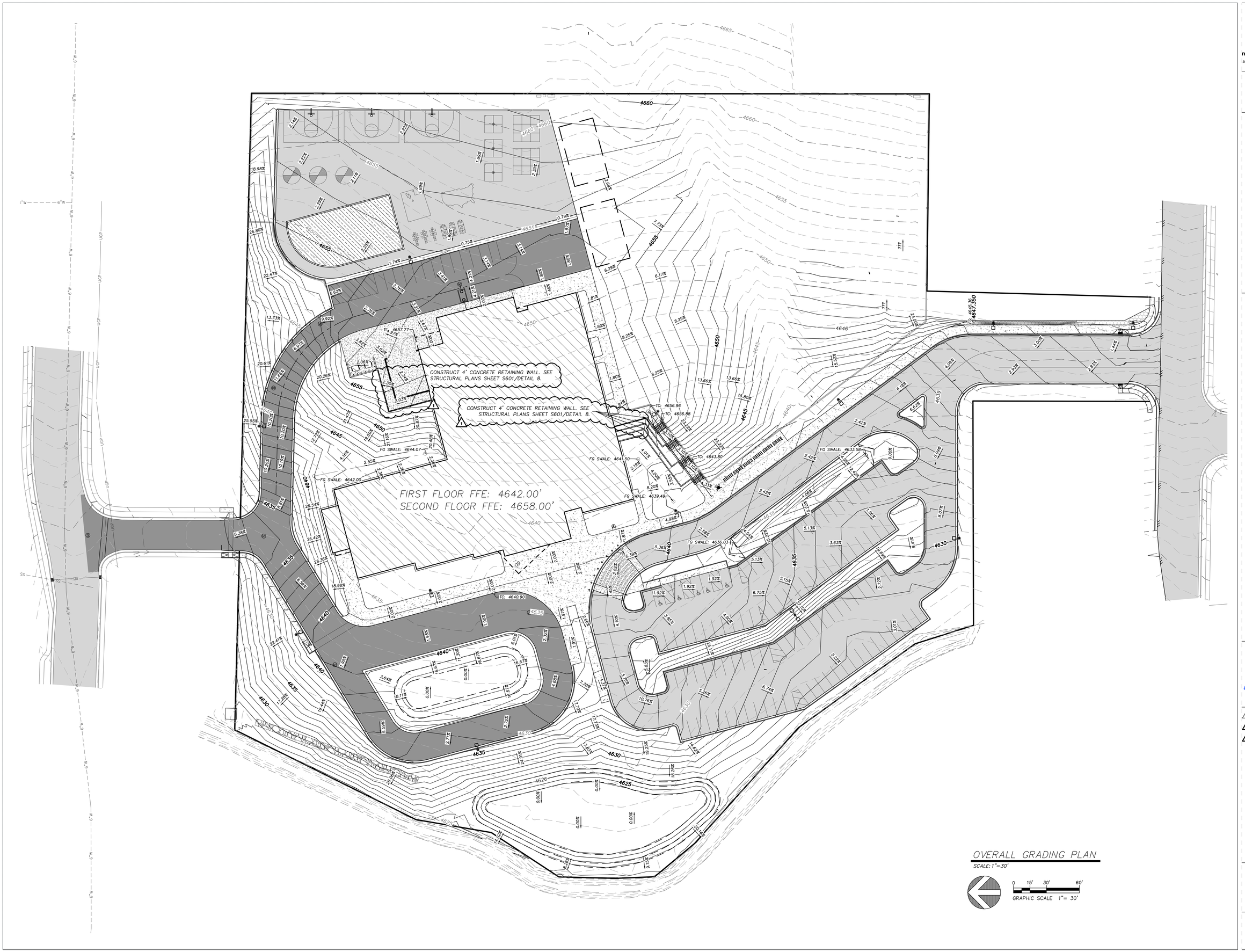
DRAWING ISSUE	BID SET ADD. 2
ISSUE DATE	04/08/25
NWL PROJECT	0119.002

PROFESSIONAL ENGINEER
LANCE ANDERSON
7207281
4/8/25
STATE OF UTAH

△	DATE	REVISION
1	4/1/25	ADDENDUM 2
2	4/8/25	ADDENDUM 3

UTILITY PLAN
SEWER PLAN & PROFILE

CU304



OVERALL GRADING PLAN

SCALE: 1"=30'

0 15' 30' 60'

GRAPHIC SCALE 1"= 30'

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PROFESSIONAL ENGINEER
LANCE ANDERSON
STATE OF UTAH
4/8/25

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1	4/1/25	ADDENDUM 2
2	4/8/25	ADDENDUM 3

GRADING PLAN
OVERALL GRADING

CG401

GRADING NOTES

1. CONTRACTOR SHALL MATCH GRADES AT EXISTING ASPHALT AND CONCRETE.
2. TYPICAL CONTOUR INTERVAL IS 1.0' FOR EXISTING AND 1.0' FOR PROPOSED.
3. ALL SLOPE ARROWS ARE ORIENTED TOWARD THE DIRECTION OF WATER FLOW ON THE SURFACE. SIDEWALK CROSS-SLOPE NOT TO EXCEED 2.0%.
4. SLOPES IN ADA PARKING AREA NOT TO EXCEED 2.0% IN ANY DIRECTION.
5. SEE ROADWAY PLAN AND PROFILE SHEETS FOR ROADWAY GRADING.

GRADING LEGEND

4500	EXIST. MAJOR CONTOUR (5' INT)
4501	EXIST. MINOR CONTOUR (1' INT)
4500	PROP. MAJOR CONTOUR (5' INT)
4501	PROP. MINOR CONTOUR (1' INT)
	GRADE BREAK
	GRADE BREAK-SWALE
	DAYLIGHT LINE

SPOT ELEVATION LEGEND

TA: XX.XX	TOP OF ASPHALT
TG: XX.XX	TOP OF GRAVEL
TC: XX.XX	TOP OF CONCRETE
TBC XX.XX	TOP BACK OF CURB
TBRC XX.XX	TOP BACK OF RIBBON CURB
GB:	GRADE BREAK
FFE:	FINISHED FLOOR ELEVATION
HP:	LOCAL HIGH POINT
LP:	LOCAL LOW POINT
MATCH:	MATCH EXISTING ELEVATION

GRADING PLAN-WEST

SCALE: 1"=20'

0 10' 20' 40'
GRAPHIC SCALE 1"= 20'

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DRAWING ISSUE	BID SET ADD. 2
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NWL PROJECT	0110.002

PROFESSIONAL ENGINEER
LEE ANDERSON
7207352
4/8/25
STATE OF UTAH

DATE	REVISION
4/1/25	ADDENDUM 2
4/8/25	ADDENDUM 3

GRADING PLAN WEST

CG402

GRADING NOTES

1. CONTRACTOR SHALL MATCH GRADES AT EXISTING ASPHALT AND CONCRETE.
2. TYPICAL CONTOUR INTERVAL IS 1.0' FOR EXISTING AND 1.0' FOR PROPOSED.
3. ALL SLOPE ARROWS ARE ORIENTED TOWARD THE DIRECTION OF WATER FLOW ON THE SURFACE. SIDEWALK CROSS-SLOPE NOT TO EXCEED 2.0%.
4. SLOPES IN ADA PARKING AREA NOT TO EXCEED 2.0% IN ANY DIRECTION.
5. SEE ROADWAY PLAN AND PROFILE SHEETS FOR ROADWAY GRADING.

SPOT ELEVATION LEGEND

TA: XX.XX	TOP OF ASPHALT
TG: XX.XX	TOP OF GRAVEL
TC: XX.XX	TOP OF CONCRETE
TBC XX.XX	TOP BACK OF CURB
TBRC XX.XX	TOP BACK OF RIBBON CURB
GB:	GRADE BREAK
FFE:	FINISHED FLOOR ELEVATION
HP:	LOCAL HIGH POINT
LP:	LOCAL LOW POINT
MATCH:	MATCH EXISTING ELEVATION

GRADING PLAN–EAST

SCALE: 1"=20'

0 10' 20' 40'
GRAPHIC SCALE 1"= 20'

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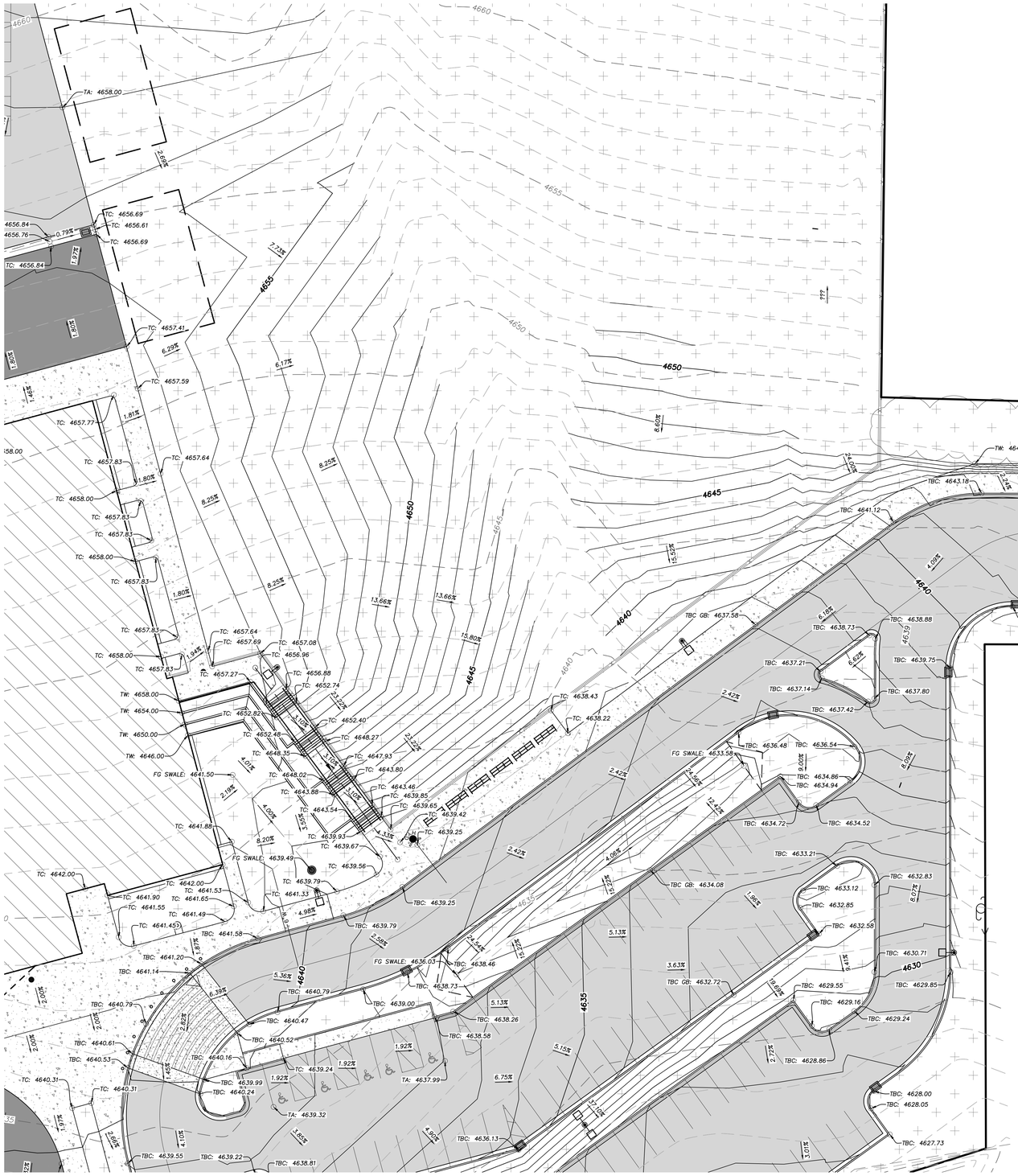
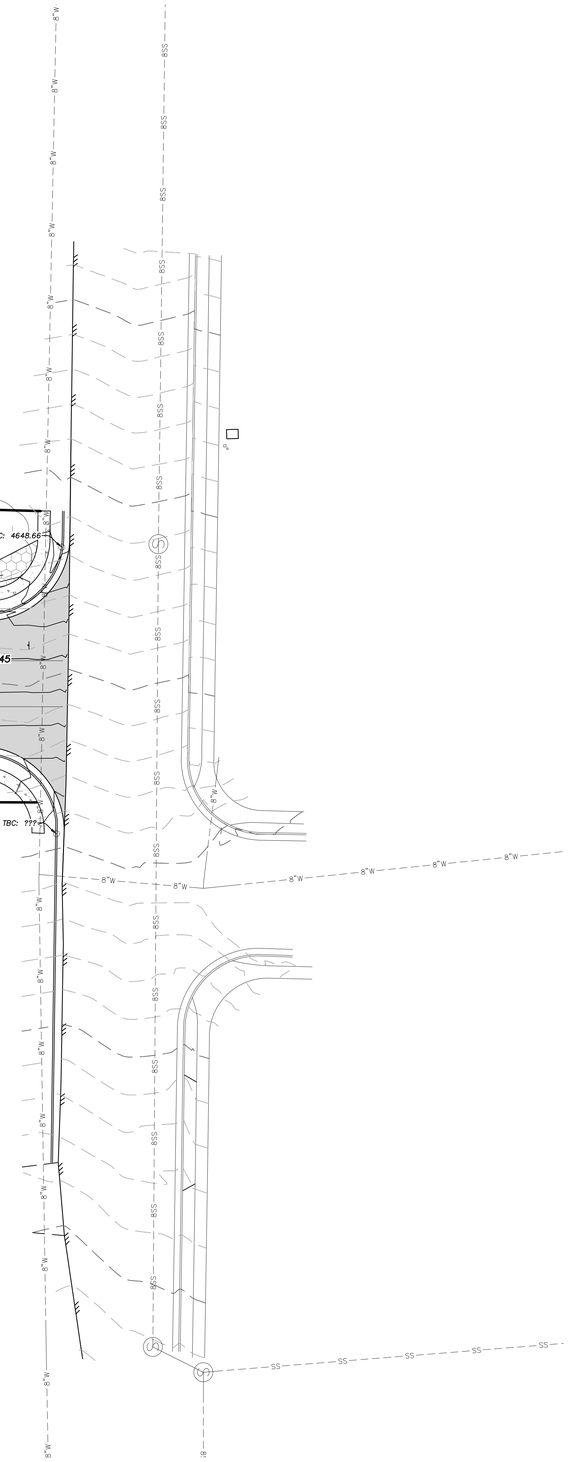
PROFESSIONAL ENGINEER
CLAYTON ANDERSON
STATE OF UTAH
4/8/25

	DATE	REVISION
1	4/1/25	ADDENDUM 2
2	4/8/25	ADDENDUM 3

GRADING PLAN EAST

CG403





GRADING NOTES

1. CONTRACTOR SHALL MATCH GRADES AT EXISTING ASPHALT AND CONCRETE.
2. TYPICAL CONTOUR INTERVAL IS 1.0' FOR EXISTING AND 1.0' FOR PROPOSED.
3. ALL SLOPE ARROWS ARE ORIENTED TOWARD THE DIRECTION OF WATER FLOW ON THE SURFACE. SIDEWALK CROSS-SLOPE NOT TO EXCEED 2.0%.
4. SLOPES IN ADA PARKING AREA NOT TO EXCEED 2.0% IN ANY DIRECTION.
5. SEE ROADWAY PLAN AND PROFILE SHEETS FOR ROADWAY GRADING.

SPOT ELEVATION LEGEND

TA: XX.XX	TOP OF ASPHALT
TG: XX.XX	TOP OF GRAVEL
TC: XX.XX	TOP OF CONCRETE
TBC XX.XX	TOP BACK OF CURB
TBRC XX.XX	TOP BACK OF RIBBON CURB
GB:	GRADE BREAK
FFE:	FINISHED FLOOR ELEVATION
HP:	LOCAL HIGH POINT
LP:	LOCAL LOW POINT
MATCH:	MATCH EXISTING ELEVATION

GRADING PLAN–SOUTH ENT

SCALE: 1"=20'

0 10' 20' 40'

GRAPHIC SCALE 1"= 20'

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ISSUE DATE	04/08/25
NWL PROJECT	0119.002

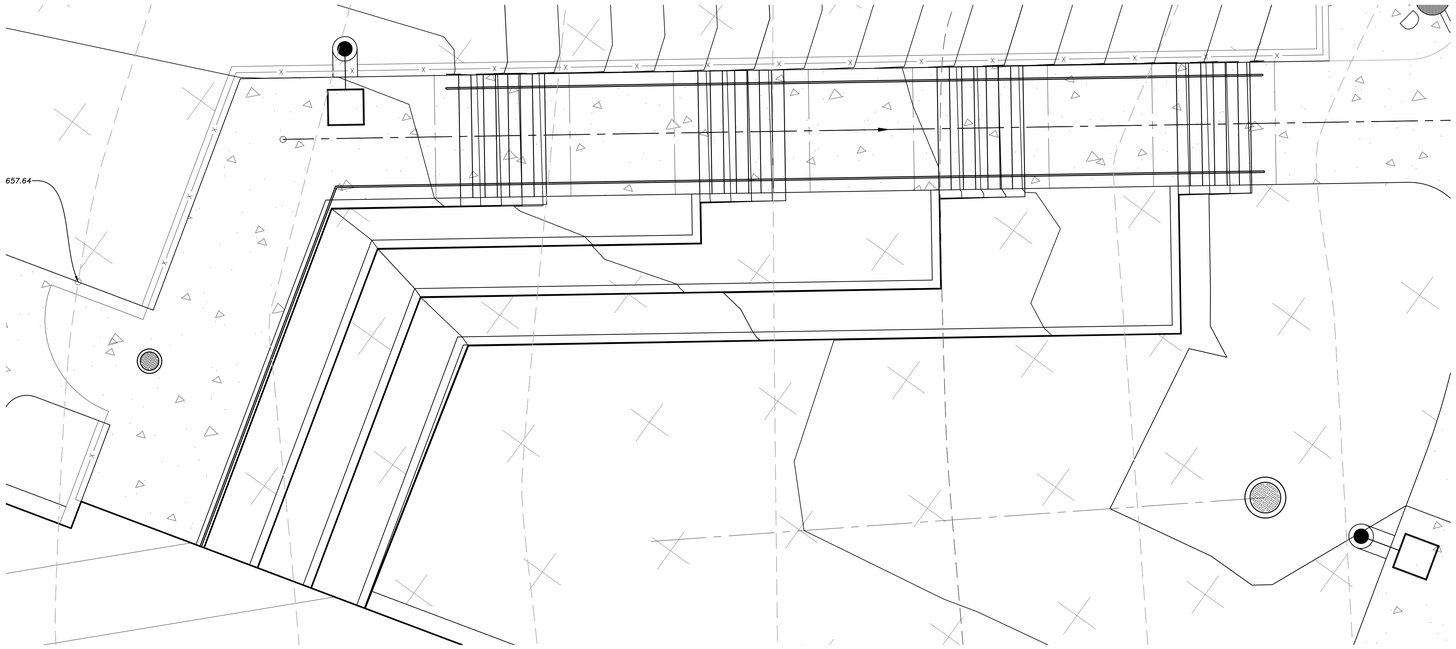
PROFESSIONAL ENGINEER
LANCE ANDERSON
STATE OF UTAH
4/8/25

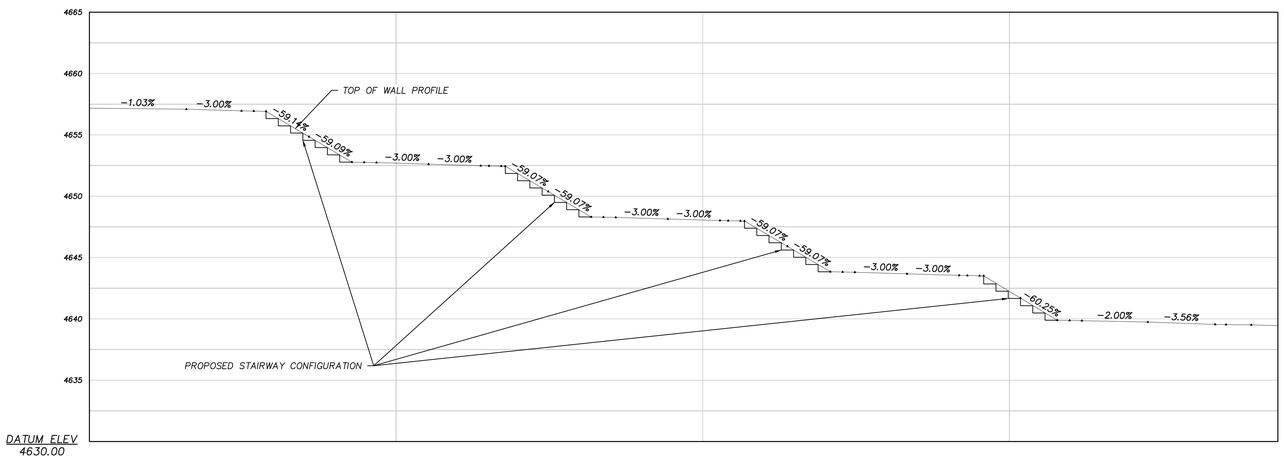
DATE	REVISION
4/1/25	ADDENDUM 2
4/8/25	ADDENDUM 3

GRADING PLAN
SOUTH ENTRANCE

CG404

Z:\2024 Projects\675-2401 Elementary School - Hyde Park, UT\ACAD\Construction Documents\675-2401 C-401 Grading Plan.dwg, 4/8/2025 4:29:00 PM, DWG To PDF.pc3





STAIR PROFILE

SCALE: 1"=5'

0 10' 20' 40'

GRAPHIC SCALE 1"= 20'

2

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DRAWING ISSUE BID SET ADD. 2
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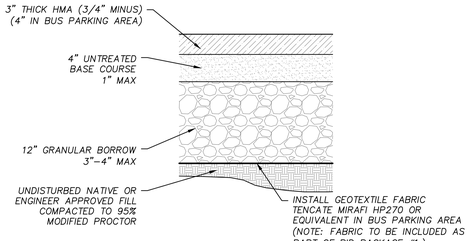
NWL PROJECT 0119.002

PROFESSIONAL ENGINEER
LANCE ANDERSON
4/8/25
STATE OF UTAH

	DATE	REVISION
1	4/1/25	ADDENDUM 2
2	4/8/25	ADDENDUM 3

GRADING PLAN
STAIR PROFILE

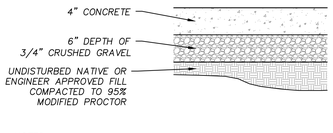
CG405



NOTES:
1. INCREASE HMA THICKNESS TO 4" IN SCHOOL BUS PARKING AREA.
2. TOP SOIL IS NOT TO BE USED AS FILL MATERIAL.

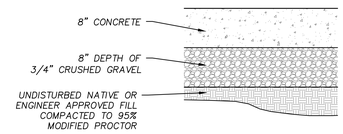
1 ON–SITE STANDARD ASPHALT SECTION
SCALE: NTS

NOTE: ALL ON–SITE CONCRETE FLATWORK TO BE USU
STANDARD CONCRETE MIX. SEE CIVIL SPECIFICATIONS.



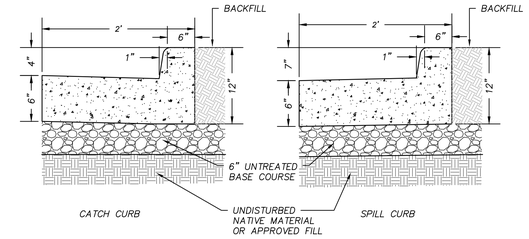
NOTES:
1. CONCRETE SHALL BE 4500 PSI, 28 DAY STRENGTH
2. INSTALL CONTRACTION JOINTS @ 10'–0" O.C. (TYP.) – COORDINATE WITH ARCHITECTURAL AND LANDSCAPE SITE DRAWINGS
3. INSTALL EXPANSION JOINTS @ 200'–0" O.C. (TYP.) – COORDINATE WITH ARCHITECTURAL AND LANDSCAPE SITE DRAWINGS
4. TOP SOIL IS NOT TO BE USED AS FILL MATERIAL.

2 STANDARD DUTY CONCRETE SECTION
SCALE: NTS



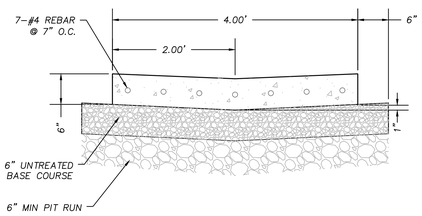
NOTES:
1. CONCRETE SHALL BE 4500 PSI, 28 DAY STRENGTH
2. INSTALL CONTRACTION JOINTS @ 10'–0" O.C. (TYP.) – COORDINATE WITH ARCHITECTURAL AND LANDSCAPE SITE DRAWINGS
3. INSTALL EXPANSION JOINTS @ 200'–0" O.C. (TYP.) – COORDINATE WITH ARCHITECTURAL AND LANDSCAPE SITE DRAWINGS
4. TOP SOIL IS NOT TO BE USED AS FILL MATERIAL.

3 HEAVY DUTY CONRETE SECTION
SCALE: NTS



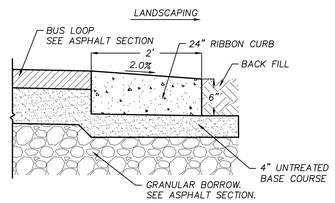
NOTES:
1. CONCRETE SHALL BE 4500 PSI – 28 DAY STRENGTH
2. PROVIDE CONTRACTION JOINTS @ 10'–0" O.C.
3. PROVIDE EXPANSION JOINTS @ 50'–0" O.C.

4 CONCRETE CURB AND GUTTER
SCALE: NTS



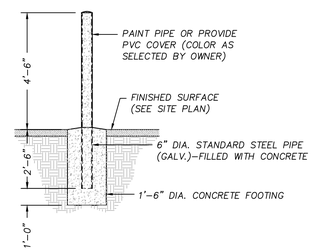
NOTES:
1. PROVIDE CONTRACTION JOINT EVERY 10'.
2. CONCRETE TO BE 4,500 PSI, 28 DAY STRENGTH.

5 4' CONCRETE WATERWAY
SCALE: NTS

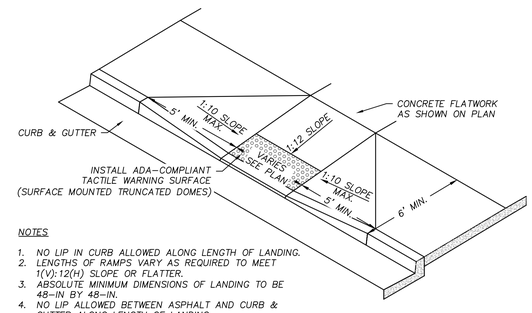


NOTES:
1. SLOPE RIBBON CURB AT 2.0% AWAY FROM PROPOSED BUILDING TO ALLOW STORMWATER TO FLOW UNOBSTRUCTED AWAY FROM BUILDING AND ACROSS FIRE ACCESS LANE..
2. CONCRETE SHALL BE 4,500 PSI, 28 DAY STRENGTH.
3. PROVIDE CONTRACTION JOINTS @ 10'–0" O.C.
4. PROVIDE EXPANSION JOINTS @ 50'–0" O.C.

6 24 IN RIBBON CURB SECTION
SCALE: NTS

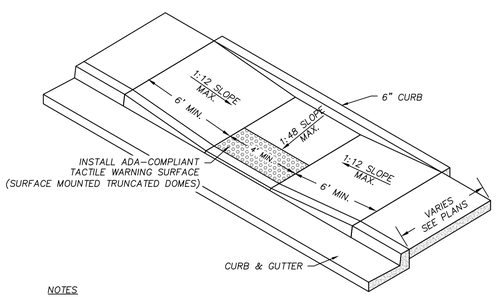


7 6" CONCRETE BOLLARD
SCALE: NTS



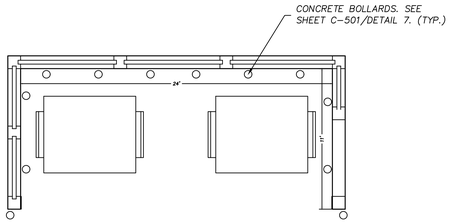
NOTES
1. NO LIP IN CURB ALLOWED ALONG LENGTH OF LANDING.
2. LENGTHS OF RAMPS VARY AS REQUIRED TO MEET 1(V):12(H) SLOPE OR FLATTER.
3. ABSOLUTE MINIMUM DIMENSIONS OF LANDING TO BE 48–IN BY 48–IN.
4. NO LIP ALLOWED BETWEEN ASPHALT AND CURB & GUTTER ALONG LENGTH OF LANDING.

8 PERPENDICULAR ADA RAMP (TYP.)
SCALE: NTS

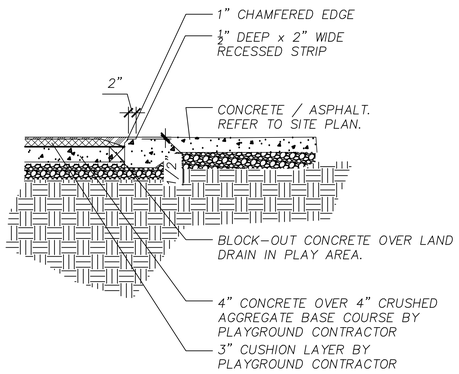


NOTES
1. NO LIP IN CURB ALLOWED ALONG LENGTH OF LANDING.
2. LENGTHS OF RAMPS VARY AS REQUIRED TO MEET 1(V):12(H) SLOPE OR FLATTER.
3. ABSOLUTE MINIMUM DIMENSIONS OF LANDING TO BE 48–IN BY 48–IN.
4. NO LIP ALLOWED BETWEEN ASPHALT AND CURB & GUTTER ALONG LENGTH OF LANDING.

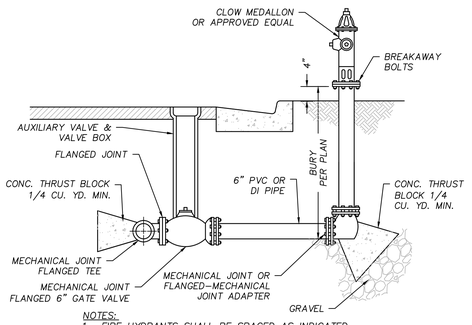
9 PARALLEL ADA RAMP (TYP.)
SCALE: NTS



10 TRASH ENCLOSURE
SCALE: NTS

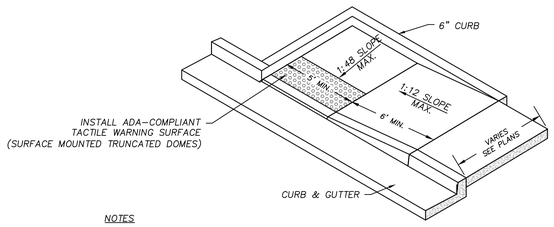


11 RUBBERIZED PLAYGROUND AREA
SCALE: NTS



NOTES:
1. FIRE HYDRANTS SHALL BE SPACED AS INDICATED.
2. FIRE HYDRANT SHALL HAVE A NOMINAL VALVE OPENING OF 5 1/4" DIA.
3. FIRE HYDRANT SHALL BE INSTALLED IN A VERTICAL POSITION WITH LARGE NOZZLE FACING THE STREET.
4. D.I. PIPE TO BE WRAPPED.

12 FIRE HYDRANT
SCALE: NTS



NOTES
1. NO LIP IN CURB ALLOWED ALONG LENGTH OF LANDING.
2. LENGTHS OF RAMP MAY VARY AS REQUIRED TO MEET 1(V):12(H) SLOPE OR FLATTER.
3. ABSOLUTE MINIMUM DIMENSIONS OF LANDING TO BE 48–IN BY 48–IN.
4. NO LIP ALLOWED BETWEEN ASPHALT AND CURB & GUTTER ALONG LENGTH OF LANDING.

13 DEAD END ADA RAMP
SCALE: NTS

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333 EAST 300 NORTH
HYDE PARK CITY, UT
84335

DRAWING ISSUE	BID SET ADD. 2
ISSUE DATE	04/08/25
NWL PROJECT	0119.002

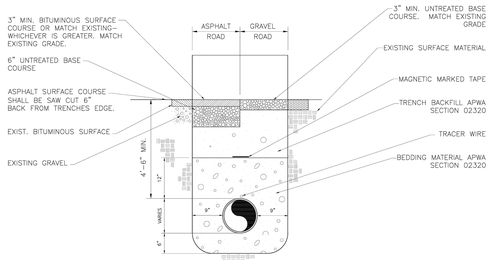
PROFESSIONAL ENGINEER
LANCE ANDERSON
PE07151
4/8/25
STATE OF UTAH

△	DATE	REVISION
1	4/1/25	ADDENDUM 2
2	4/8/25	ADDENDUM 3

CIVIL DETAILS
SITE WORK

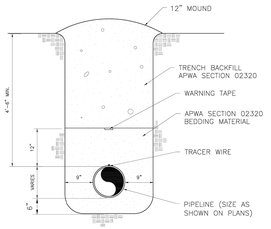
C-501

TRENCH DETAILS



DETAIL – ROADWAYS

NOTE:
BEDDING MATERIALS SURROUNDING PIPE SHALL BE 3/4" MINUS FOR PVC PIPE AND 2" MINUS FOR DUCTILE IRON PIPE.



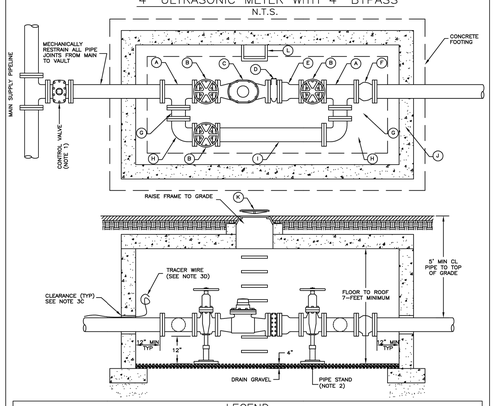
DETAIL – UNDEVELOPED/UNTRAVELLED AREAS

NOTE:
BEDDING MATERIALS SURROUNDING PIPE SHALL BE LESS THAN 3/4" FOR PVC PIPE AND LESS THAN 2" FOR DUCTILE IRON PIPE.

1 HYDE PARK UTILITY TRENCH DETAIL
SCALE: NTS

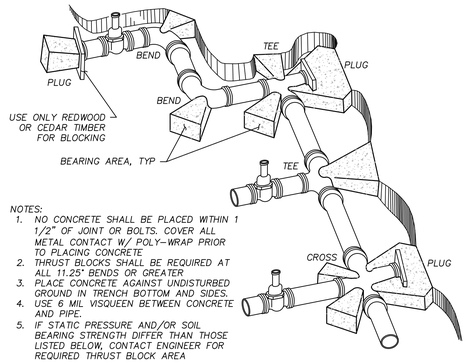
4" ULTRASONIC METER WITH 4" BYPASS

N.T.S.



LEGEND		
No.	ITEM	DESCRIPTION
A	4" FLANGE TEE FLG X FLG X FLG	
B	4" GATE VALVE W/ HAND WHEEL FLG X FLG	AWWA STANDARD C509
C	4" ULTRASONIC METER (14" LAY LENGTH)	NEPTUNE MACH 10 OR MASTER METER OCTAV
D	4" STRAINER	INSTALL ACCESS PLATE ON SIDE
E	4" FLG X MJ ADAPTER W/ 4" FLG X PE SPOOL	
F	4" GLOBE STYLE CHECK VALVE	
G	4" FLG X FLG D.I. PIPE SPOOL (12" LENGTH)	
H	4" X 4" FLG X FLG ELBOW	
I	4" FLG X FLG D.I. PIPE SPOOL	
J	CONCRETE BOX	
K	38" FRAME & COVER	
L	STEPS AT 12" C.C.	

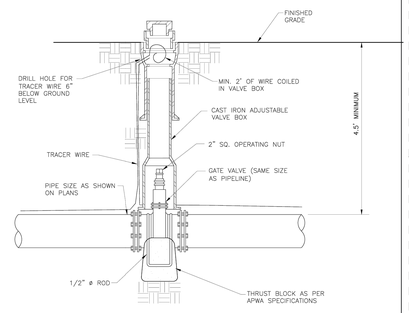
2 APWA 4 INCH WATER METER
SCALE: NTS



NOTES:
1. NO CONCRETE SHALL BE PLACED WITHIN 1 1/2" OF JOINT OR BOLTS. COVER ALL METAL CONTACT W/ POLY-WRAP PRIOR TO PLACING CONCRETE
2. THRUST BLOCKS SHALL BE REQUIRED AT ALL 11.25° BENDS OR GREATER
3. PLACE CONCRETE AGAINST UNDISTURBED GROUND IN TRENCH BOTTOM AND SIDES.
4. USE 6 MIL VISQUEEN BETWEEN CONCRETE AND PIPE.
5. IF STATIC PRESSURE AND/OR SOIL BEARING STRENGTH DIFFER THAN THOSE LISTED BELOW, CONTACT ENGINEER FOR REQUIRED THRUST BLOCK AREA

THRUST BLOCK DESIGN INFO				
STATIC PRESSURE (PSI)	SOIL BEARING STRENGTH (PSF)		SAFETY FACTOR	
150	2000		1.50	
THRUST BLOCK AREA REQUIRED (SQ FT)				
PIPE SIZE	DEAD END OR TEE	90° ELBOW	45° ELBOW	22.5° ELBOW
4	1.4	2.0	1.1	0.6
6	3.2	4.5	2.4	1.2
8	5.7	8.0	4.3	2.2
10	8.8	12.5	6.8	3.4
12	12.7	18.0	9.7	5.0
14	17.3	24.5	13.2	6.8
16	22.6	32.0	17.3	8.8
18	28.6	40.5	21.9	11.2
20	35.3	50.0	27.0	13.8
24	50.9	71.9	38.9	19.8

3 FITTING WITH THRUST BLOCK
SCALE: NTS

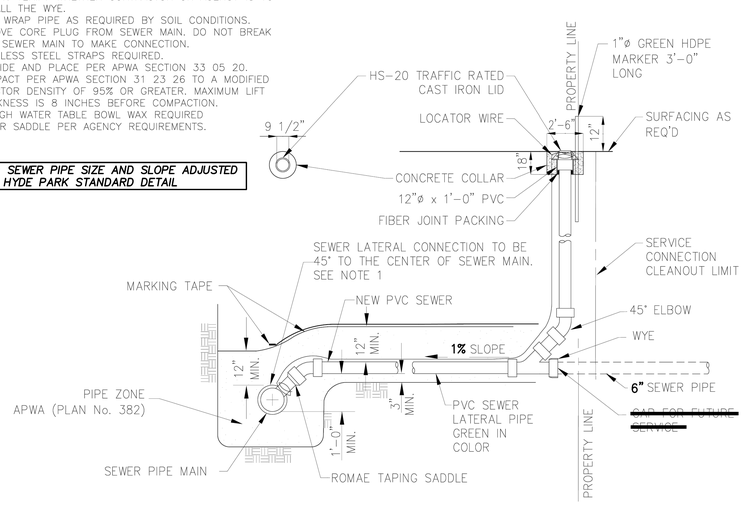


NOTE: VALVE BOX SHALL BE CLEAN, PLUMB AND PROPERLY ALIGNED ON THE VALVE.

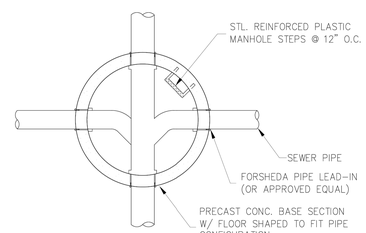
4 HYDE PARK WATER VALVE DETAIL
SCALE: NTS

NOTES:
1. PROVIDE AGENCY APPROVED WYE OR TEE WITH APPROPRIATE DONUT. VERIFY WHETHER CONTRACTOR OR AGENCY IS TO INSTALL THE WYE.
2. TAPE WRAP PIPE AS REQUIRED BY SOIL CONDITIONS.
3. REMOVE CORE PLUG FROM SEWER MAIN. DO NOT BREAK INTO SEWER MAIN TO MAKE CONNECTION.
4. STAINLESS STEEL STRAPS REQUIRED.
5. PROVIDE AND PLACE PER APWA SECTION 33 05 20. COMPACT PER APWA SECTION 31 23 26 TO A MODIFIED PROCTOR DENSITY OF 95% OR GREATER. MAXIMUM LIFT THICKNESS IS 8 INCHES BEFORE COMPACTION.
6. IN HIGH WATER TABLE BOWL WAX REQUIRED
7. SEWER SADDLE PER AGENCY REQUIREMENTS.

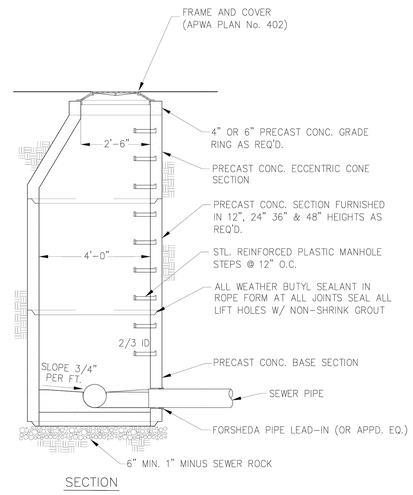
NOTE: SEWER PIPE SIZE AND SLOPE ADJUSTED FROM HYDE PARK STANDARD DETAIL



5 SANITARY SEWER LATERAL AND CLEAN OUT DETAIL
SCALE: NTS

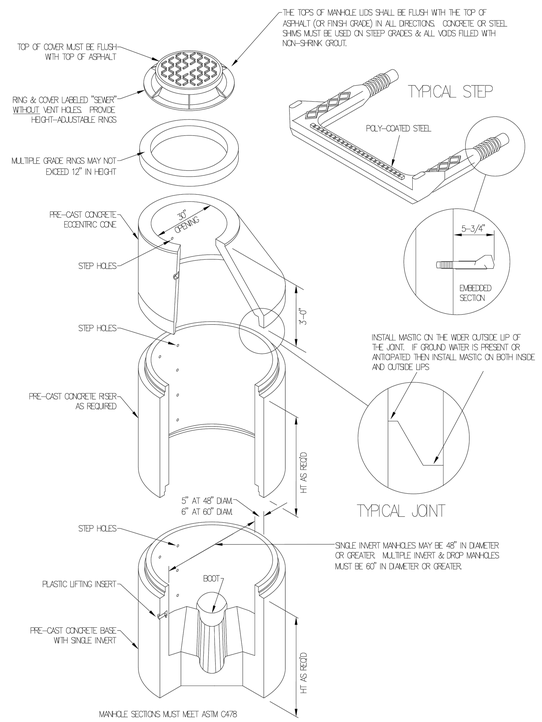


PLAN



SECTION

NOTES:
1. PROVIDE AND PLACE PER APWA SECTION 31 23 23. COMPACT PER APWA SECTION 31 32 26 TO A MODIFIED PROCTOR DENSITY OF 95% OF GREATER. MAXIMUM LIFT THICKNESS IS 8 INCES BEFOR COMPACTION.
2. CONCRETE CLASS 4000 PER APWA SECTION 03 30 04. PLACE CONCRETE PER APWA SECTION 03 30 10. CURE PER APWA SECTION 03 39 00.
3. FOR SEWERS UNDER 12" DIAMETER, BUILD A 4 FEET DIAMETER MANHOLE. FOR SEWERS 12" AND LARGER, AND WHEN 3 OR MORE PIPES INTERSECT IN THE MANHOLE, BUILD A 5 FEET DIAMETER MANHOLE.
4. GROUT AROUND ALL PIPE OPENINGS WITH 2:1 SAND/CEMENT MORTAR
5. PLACE FLEXIBLE GASKET-TYPE SEALANT IN ALL MANHOLE JOINTS
6. PLACE INVERT COVERS OVER THE TOP OF THE PIPE IN ALL MANHOLES DURING CONSTRUCTION. SEE APWA PLAN No. 412.
7. INSTALL RUBBER WATER-STOP ON ALL PLASTIC PIPES WHEN CONNECTING PLASTIC PIPES TO MANHOLES. HOLD WATER-STOP IN PLACE WITH STAINLESS STEEL BANDS.



6 HYDE PARK SANITARY SEWER MANHOLE DETAIL
SCALE: NTS

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95 W. Golf Course Rd.
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CACHE COUNTY
SCHOOL DISTRICT

HYDE PARK ELEMENTARY SCHOOL
333 EAST 300 NORTH
HYDE PARK CITY, UT
84335

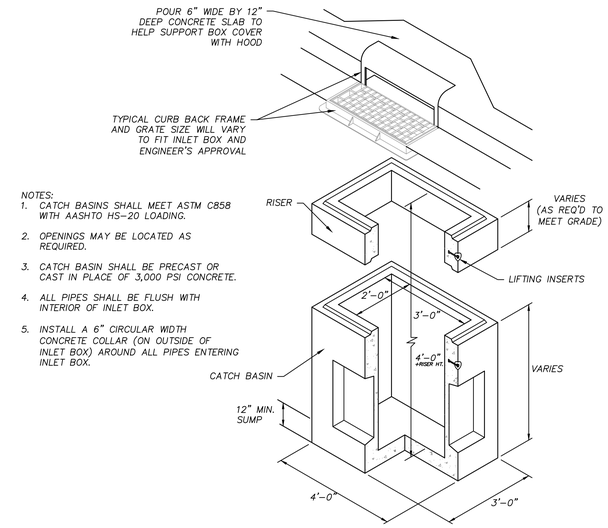
DRAWING ISSUE	BID SET ADD. 2
ISSUE DATE	04/08/25
NWL PROJECT	0110.002

PROFESSIONAL ENGINEER
LEE ANDERSON
7207353
4/8/25
STATE OF UTAH

DATE	REVISION
4/1/25	ADDENDUM 2
4/8/25	ADDENDUM 3

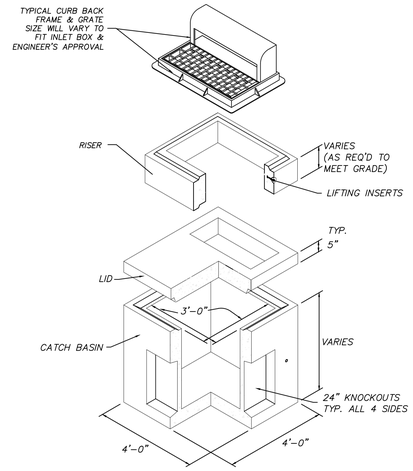
CIVIL DETAILS
UTILITY WORK

C-502

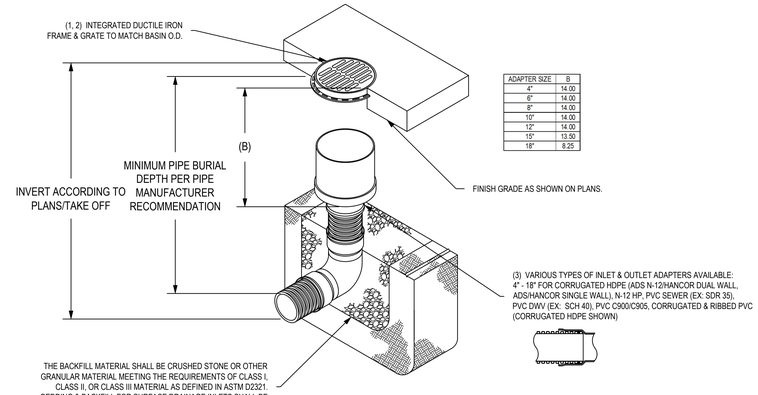


NOTES:
1. CATCH BASINS SHALL MEET ASTM C858 WITH AASHTO HS-20 LOADING.
2. OPENINGS MAY BE LOCATED AS REQUIRED.
3. CATCH BASIN SHALL BE PRECAST OR CAST IN PLACE OF 3,000 PSI CONCRETE.
4. ALL PIPES SHALL BE FLUSH WITH INTERIOR OF INLET BOX.
5. INSTALL A 6" CIRCULAR WIDTH CONCRETE COLLAR (ON OUTSIDE OF INLET BOX) AROUND ALL PIPES ENTERING INLET BOX.

1 2'X3' CATCH BASIN
SCALE: NTS



2 3'X3' CATCH BASIN
SCALE: NTS

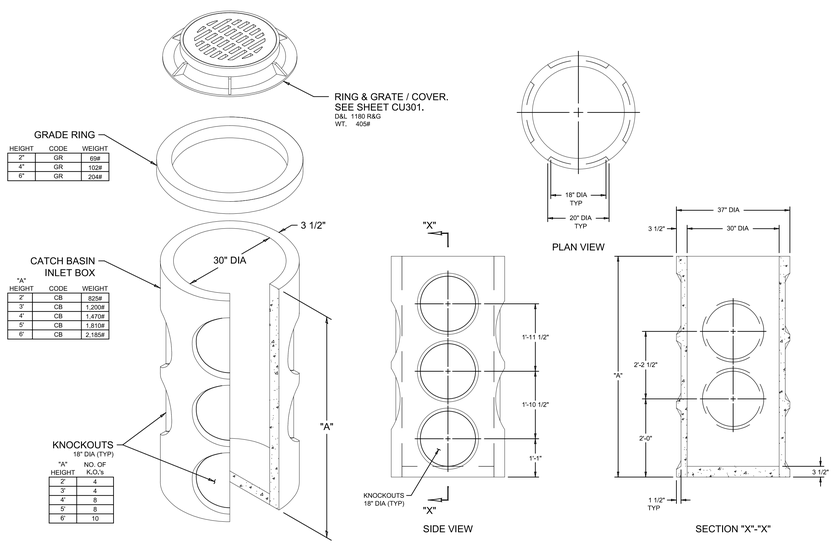


ADAPTER SIZE	B
4"	14.00
6"	14.00
8"	14.00
10"	14.00
12"	14.00
15"	13.50
18"	8.25

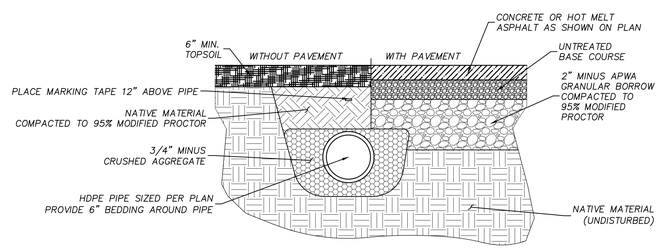
1 - GRATES/SOLID COVER SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
2 - FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
3 - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL), N-12 HP, & PVC SEWER.
4 - DIMENSIONS ARE FOR REFERENCE ONLY. ACTUAL DIMENSIONS MAY VARY.
5 - DIMENSIONS ARE IN INCHES
6 - SEE DRAWING NO. 7001-110-215 FOR ADS N-12 & HANCOR DUAL WALL BELL INFORMATION & DRAWING NO. 7001-110-364 FOR N-12 HP BELL INFORMATION.

GRATE OPTIONS	LOAD RATING	PART #	DRAWING #
PEDESTRIAN	MEETS H-10	1899CGP	7001-110-212
STANDARD	MEETS H-20	1899CGS	7001-110-213
SOLID COVER	MEETS H-20	1899CGC	7001-110-214
DOME	N/A	1899CGD	7001-110-215
DROP IN GRATE	LIGHT DUTY	1801DI	7001-110-074

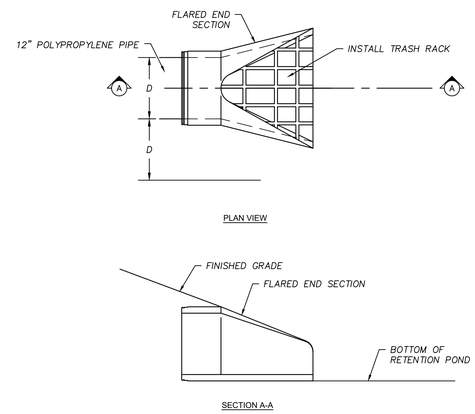
3 NYOPLAST PLASTIC DRAIN BOX
SCALE: NTS



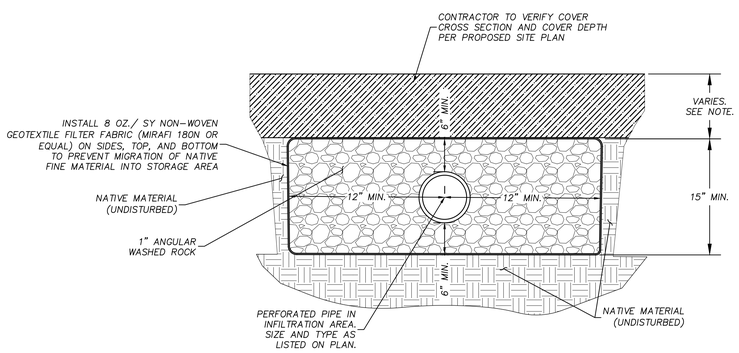
4 30 INCH DIAMETER CIRCULAR CATCH BASIN
SCALE: NTS



5 STORM DRAIN PIPE SECTION
SCALE: NTS



6 FLARED END SECTION WITH TRASH RACK
SCALE: NTS



7 INFILTRATION PIPE SECTION
SCALE: NTS

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CACHE COUNTY SCHOOL DISTRICT

HYDE PARK ELEMENTARY SCHOOL
335 EAST 300 NORTH
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84335

DRAWING ISSUE	BID SET ADD. 2
ISSUE DATE	04/08/25
NWL PROJECT	0119.002

PROFESSIONAL ENGINEER
CARLE ANDERSON
PE-9766-2
4/8/25
STATE OF UTAH

	DATE	REVISION
1	4/1/25	ADDENDUM 2
2	4/8/25	ADDENDUM 3

CIVIL DETAILS
UTILITY WORK

C-503

BHB CONSULTING
ENGINEERS, INC
2766 South Main Street
Salt Lake City, UT 84115

p. 801 355 5656
bhbengineers.com

Changes to the plans

On S101b

- Updated columns and footings in mechanical room below stage
- Added panel to footing connection callout to panel TB-04

On S111A

- Changed masonry wall callouts to MW-8C

On S111B

- Updated columns mechanical room below stage
- Change masonry callouts to MW-8C

On S111C

- Reduced footing size at column K.7/11

On S121A

- Updated snow drifts on plans
- Changed masonry wall callouts to MW-8C

On S121B

- Updated snow drifts on plans
- Changed masonry wall callouts to MW-8C
- Added callout for HSS beam to media center above curtain wall as shown in detail for clarity

On S121C

- Updated snow drifts on plans
- Clarified T=C loads above Multi-Purpose Room
- Added HSS callouts on North wall of Multi-Purpose room for glazing bracing

On S202

- Updated panel embeds

On S203

- Updated panel embeds

On S204

- Updated panel embeds

On S205

- Updated panel embeds

On S206

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- Updated panel embeds

On S207

- Updated panel embeds

On S208

- Updated panel embeds

On S209

- Updated panel embeds

On S210

- Updated panel embeds

On S501

- Added detail 16

On S503

- Clarified offset distance between top of slab and top of wall on detail 12.

On S512

- Changed slab callout on detail 10 for clarity

On S513

- Added detail 22 and 23 for clarity

On S523

- Added detail 20

On S524

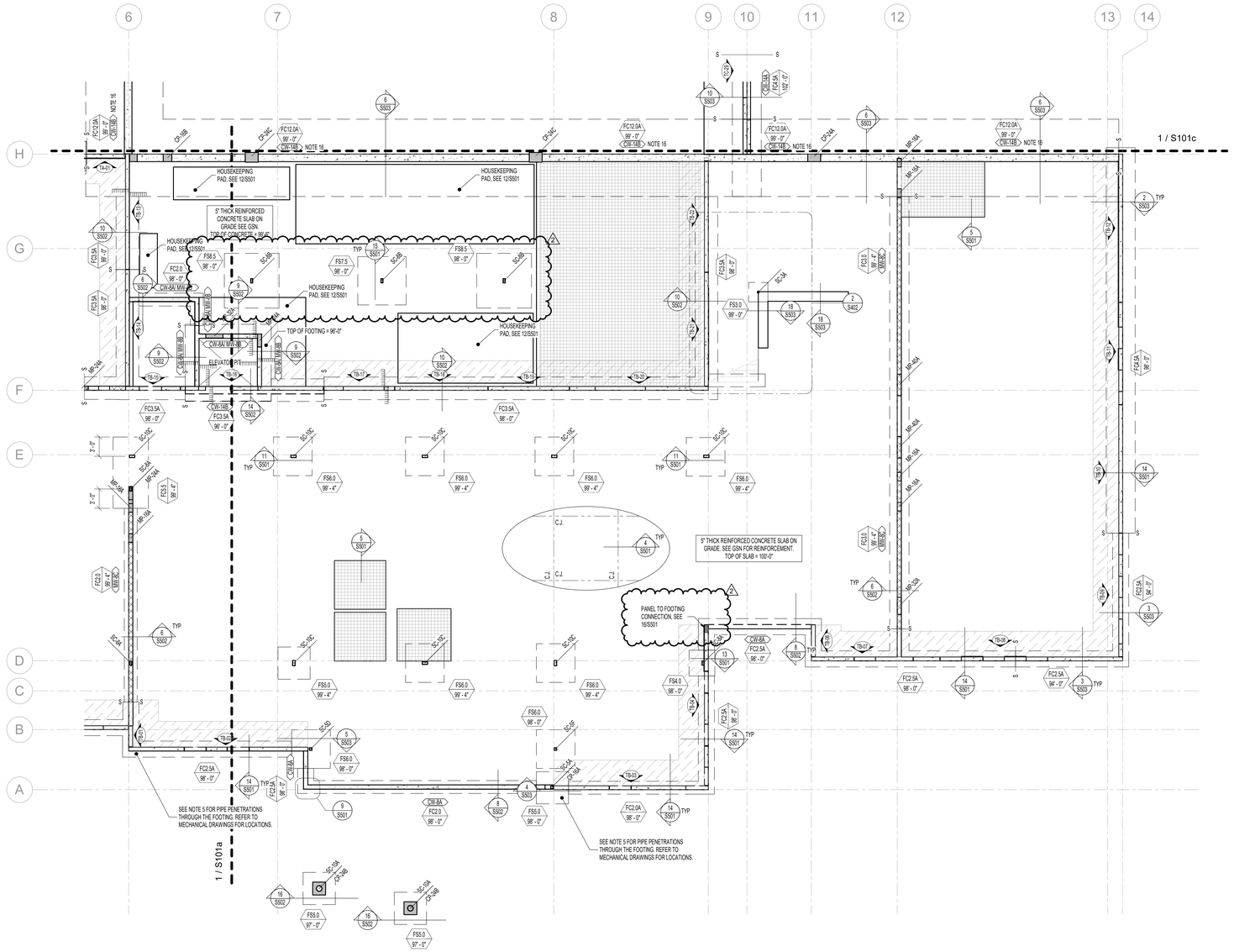
- Added detail 20 and 21

On S601

- Updated pier CP-24C

On S602

- Added wall MW-8C



1 FOOTING AND FOUNDATION PLAN - AREA 'B'

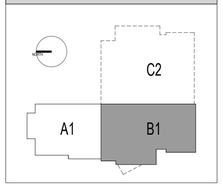
1/8" = 1'-0" 0" 4'-0" 8'-0" 16'-0"

SEE S010 FOR LEGENDS AND SYMBOLS

FOOTING AND FOUNDATION PLAN NOTES

1. COORDINATE LOCATION OF DEPRESSED SLABS, SLOPED SLABS, AND FLOOR DRAINS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
2. SEE ARCHITECTURAL AND CIVIL DRAWINGS FOR EXTERIOR CONCRETE WORK AT DOORS, SIDEWALKS, ETC.
3. SEE ARCHITECTURAL DRAWINGS FOR CONTROL JOINT LOCATIONS.
4. ALL SPOT FOOTINGS SHALL BE CENTERED UNDER COLUMNS (UNO).
5. SEE DETAILS 1/S501 AND 2/S501 FOR CONDITION WHERE BURIED PIPES RUN PARALLEL AND PERPENDICULAR TO FOOTINGS.
6. SEE DETAIL 4/S501 FOR TYPICAL CONTROL/CONSTRUCTION JOINTS IN CONCRETE SLAB ON GRADE.
7. SEE DETAIL 7/S501 FOR SLAB REINFORCING WHERE CONTROL JOINTS ARE DISCONTINUOUS.
8. SEE DETAIL 1/S502 FOR CONDITION AT RECESSES IN MASONRY WALLS.
9. SEE DETAIL 2/S502 FOR TYPICAL CONTROL JOINTS IN MASONRY WALLS.
10. SEE DETAIL 3/S502 FOR TERMINATION OF HORIZONTAL REINFORCING IN MASONRY WALLS.
11. SEE DETAIL 12/S501 FOR ANCHORAGE OF HOUSEKEEPING PADS.
12. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS TO ALL STEEL COLUMNS.
13. AT COOLING TOWER SUPPORT BEAMS, CONTRACTOR SHALL CONFIRM BEAM SPACING WITH COOLING TOWER REQUIREMENTS PRIOR TO INSTALLATION.
14. SEE DETAIL 5/S502 FOR ADDITIONAL REINFORCING AT MISCELLANEOUS OPENINGS IN MASONRY WALLS.
15. SEE DETAIL 10/S501 FOR ADDITIONAL REINFORCING AT MISELLANEOUS OPENINGS IN CONCRETE WALLS.
16. PROVIDE 14" WIDE×24" DEEP KEYWAY BELOW CONCRETE FOOTING REINFORCED WITH #5 AT 12" O.C. SEE DETAILS 7/S502, 13/S502 AND 6/S503.

KEY PLAN LEVEL 01



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bhb@bhbengineers.com

Consultants

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333 EAST 300 NORTH
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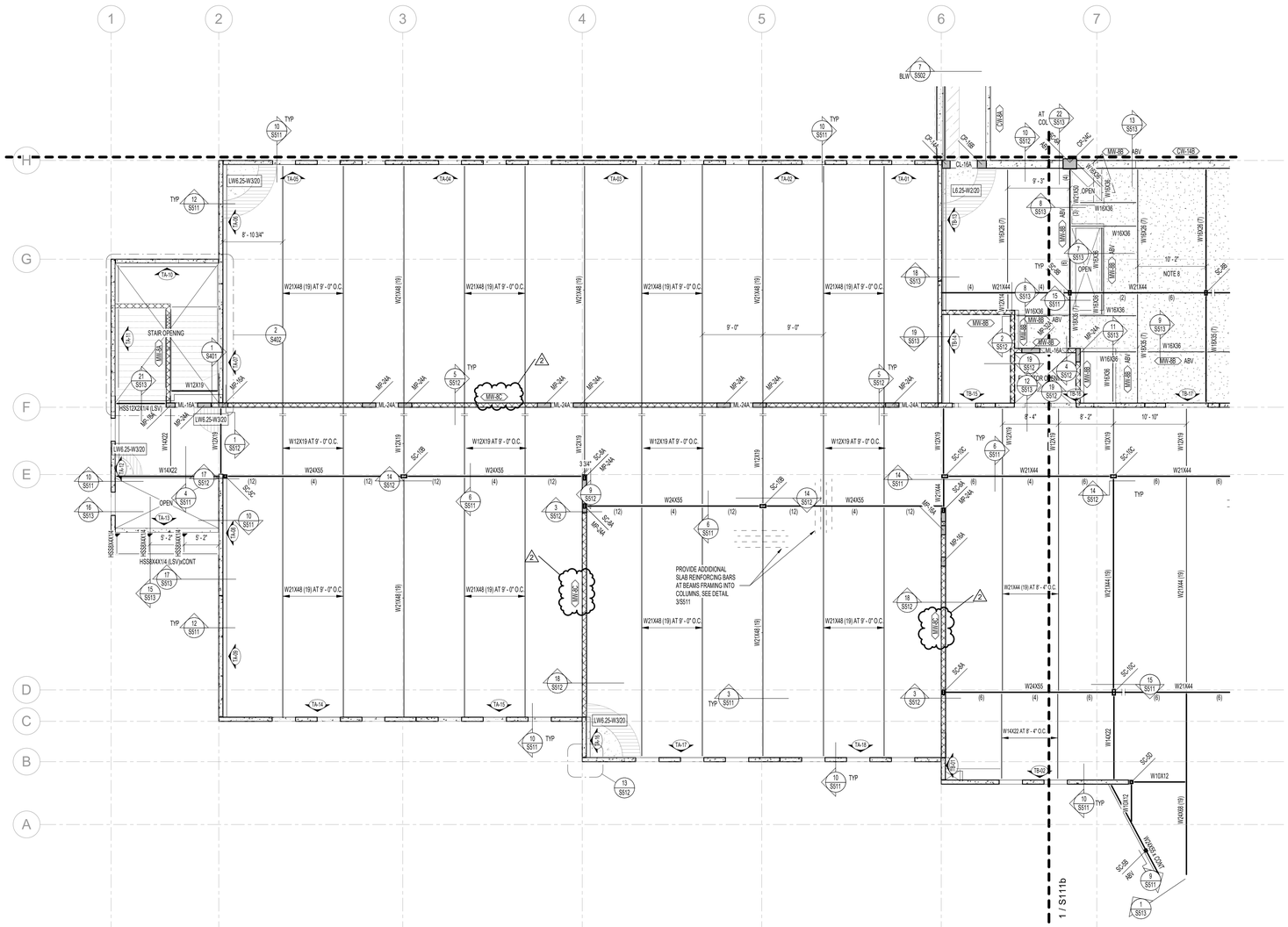
84318

DRAWING ISSUE	BID SET
ISSUE DATE	03/25/2025
NWL PROJECT	0119.002

	DATE	REVISION
1	04/01/2025	ADD #2
2	04/07/2025	ADD #3

FOOTING AND FOUNDATION PLAN - AREA 'B'

S101b



1 LEVEL 2 FLOOR FRAMING PLAN - AREA 'A'

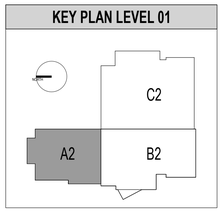
1/8" = 1'-0" 0" 4'-0" 8'-0" 16'-0"

SEE S010 FOR LEGENDS AND SYMBOLS

FLOOR FRAMING PLAN NOTES

1. VERIFY ALL FLOOR OPENINGS FOR MECHANICAL SHAFTS, STAIRS, ETC. WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
2. SEE DETAILS 1/S511 AND 2/S511 FOR FRAMING AROUND ALL OPENINGS.
3. SEE DETAIL 5/S511 FOR STEEL BRACE DETAIL, CONNECTIONS AND LOCATIONS.
4. SEE DETAIL 7/S511 WHEN MECHANICAL UNITS ARE HUNG BELOW JOISTS.
5. COORDINATE SIZE AND LOCATION OF ALL MECHANICAL OPENINGS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
6. SEE DETAIL 12/S501 FOR ANCHORAGE OF HOUSEKEEPING PADS.
7. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS TO ALL STEEL COLUMNS.
8. HATCHED AREA INDICATES CONCRETE SLAB OVER GEOFOAM FOR RAISED SLAB. SEE ARCH FOR ELEVATION AND EXTENTS.

KEY PLAN LEVEL 01



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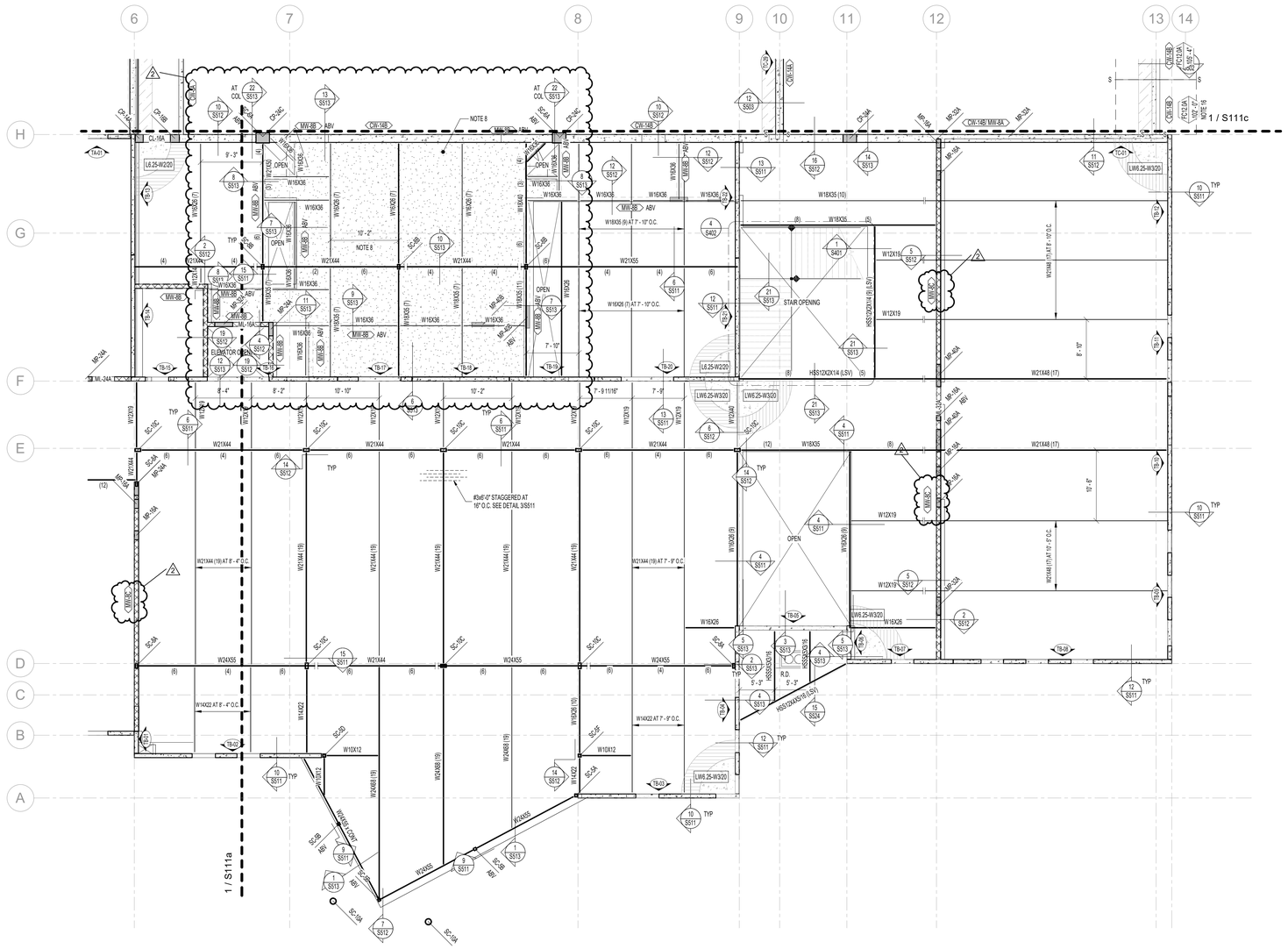
DRAWING ISSUE	BID SET
ISSUE DATE	03/25/2025
NWL PROJECT	0119.002

TRAVIS ROSS BRACKUS
8877011-2202
STATE OF UTAH
04/07/2025

	DATE	REVISION
1	04/01/2025	ADD #2
2	04/07/2025	ADD #3

LEVEL 2 FLOOR PLAN - AREA 'A'

S111a



1 LEVEL 2 FLOOR FRAMING PLAN - AREA 'B'

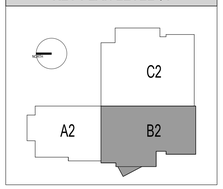
1/8" = 1'-0" 0' 4'-0" 8'-0" 16'-0"

SEE S010 FOR LEGENDS AND SYMBOLS

FLOOR FRAMING PLAN NOTES

1. VERIFY ALL FLOOR OPENINGS FOR MECHANICAL SHAFTS, STAIRS, ETC. WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
2. SEE DETAILS 1/S511 AND 2/S511 FOR FRAMING AROUND ALL OPENINGS.
3. SEE DETAIL 5/S511 FOR STEEL BRACE DETAIL CONNECTIONS AND LOCATIONS.
4. SEE DETAIL 7/S511 WHEN MECHANICAL UNITS ARE HUNG BELOW JOISTS.
5. COORDINATE SIZE AND LOCATION OF ALL MECHANICAL OPENINGS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
6. SEE DETAIL 12/S501 FOR ANCHORAGE OF HOUSEKEEPING PADS.
7. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS TO ALL STEEL COLUMNS.
8. HATCHED AREA INDICATES CONCRETE SLAB OVER GEOFOAM FOR RAISED SLAB. SEE ARCH FOR ELEVATION AND EXTENTS.

KEY PLAN LEVEL 01



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architects

Client

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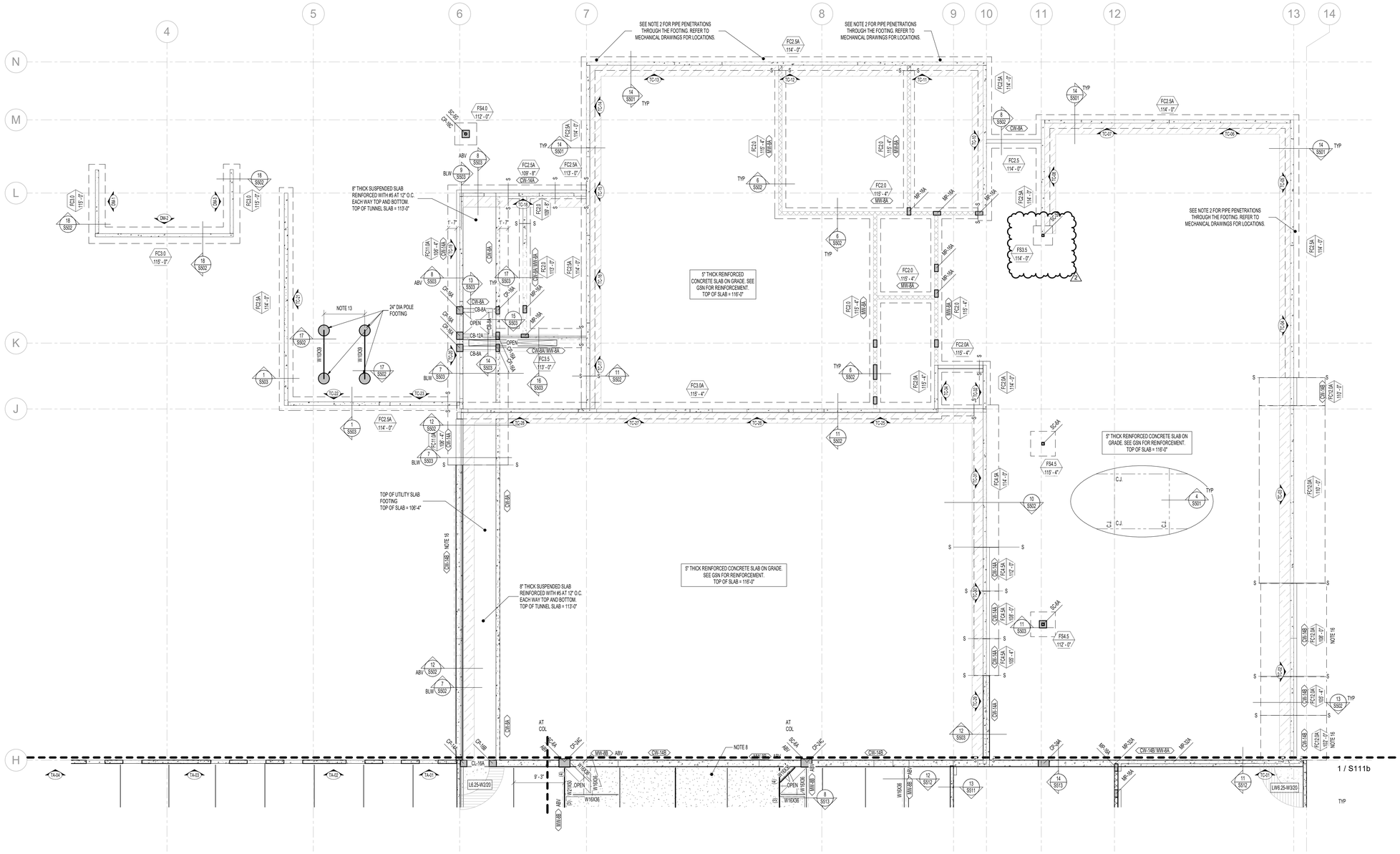
DRAWING ISSUE	BID SET
ISSUE DATE	03/25/2025
NWL PROJECT	0119.002

LICENSED PROFESSIONAL STRUCTURAL ENGINEER
TRAVIS ROSS BRACKUS
8672017-2203
STATE OF UTAH
04/07/2025

	DATE	REVISION
1	04/01/2025	ADD #2
2	04/07/2025	ADD #3

LEVEL 2 FLOOR PLAN - AREA 'B'

S111b



1 LEVEL 2 FLOOR FRAMING PLAN - AREA 'C'

1/8" = 1'-0"

FOOTING AND FOUNDATION PLAN NOTES

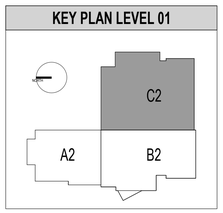
1. COORDINATE LOCATION OF DEPRESSED SLABS, SLOPED SLABS, AND FLOOR DRAINS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
2. SEE ARCHITECTURAL AND CIVIL DRAWINGS FOR EXTERIOR CONCRETE WORK AT DOORS, SIDEWALKS, ETC.
3. SEE ARCHITECTURAL DRAWINGS FOR CONTROL JOINT LOCATIONS.
4. ALL SPOT FOOTINGS SHALL BE CENTERED UNDER COLUMNS (UNO).
5. SEE DETAILS 1/S501 AND 2/S501 FOR CONDITION WHERE BURIED PIPES RUN PARALLEL AND PERPENDICULAR TO FOOTINGS.
6. SEE DETAIL 4/S501 FOR TYPICAL CONTROL/CONSTRUCTION JOINTS IN CONCRETE SLAB ON GRADE.
7. SEE DETAIL 7/S501 FOR SLAB REINFORCING WHERE CONTROL JOINTS ARE DISCONTINUOUS.
8. SEE DETAIL 1/S502 FOR CONDITION AT RECESSES IN MASONRY WALLS.
9. SEE DETAIL 2/S502 FOR TYPICAL CONTROL JOINTS IN MASONRY WALLS.
10. SEE DETAIL 3/S502 FOR TERMINATION OF HORIZONTAL REINFORCING IN MASONRY WALLS.
11. SEE DETAIL 12/S501 FOR ANCHORAGE OF HOUSEKEEPING PADS.
12. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS TO ALL STEEL COLUMNS.
13. AT COOLING TOWER SUPPORT BEAMS, CONTRACTOR SHALL CONFIRM BEAM SPACING WITH COOLING TOWER REQUIREMENTS PRIOR TO INSTALLATION.
14. SEE DETAIL 5/S502 FOR ADDITIONAL REINFORCING AT MISCELLANEOUS OPENINGS IN MASONRY WALLS.
15. SEE DETAIL 10/S501 FOR ADDITIONAL REINFORCING AT MISELLANEOUS OPENINGS IN CONCRETE WALLS.
16. PROVIDE 14" WIDE/24" DEEP KEYWAY BELOW CONCRETE FOOTING REINFORCED WITH #5 AT 12" O.C. SEE DETAILS 7/S502, 13/S502 AND 6/S503.

SEE S010 FOR LEGENDS AND SYMBOLS

FLOOR FRAMING PLAN NOTES

1. VERIFY ALL FLOOR OPENINGS FOR MECHANICAL SHAFTS, STAIRS, ETC. WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
2. SEE DETAILS 1/S511 AND 2/S511 FOR FRAMING AROUND ALL OPENINGS.
3. SEE DETAIL 5/S511 FOR STEEL BRACE DETAIL, CONNECTIONS AND LOCATIONS.
4. SEE DETAIL 7/S511 WHEN MECHANICAL UNITS ARE HUNG BELOW JOISTS.
5. COORDINATE SIZE AND LOCATION OF ALL MECHANICAL OPENINGS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
6. SEE DETAIL 12/S501 FOR ANCHORAGE OF HOUSEKEEPING PADS.
7. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS TO ALL STEEL COLUMNS.
8. HATCHED AREA INDICATES CONCRETE SLAB OVER GEOFOAM FOR RAISED SLAB. SEE ARCH FOR ELEVATION AND EXTENTS.

KEY PLAN LEVEL 01



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Client

BHB STRUCTURAL
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Consultants

CACHE COUNTY
SCHOOL DISTRICT

HYDE PARK ELEMENTARY SCHOOL
333 EAST 300 NORTH
HYDE PARK CITY, UT
84318

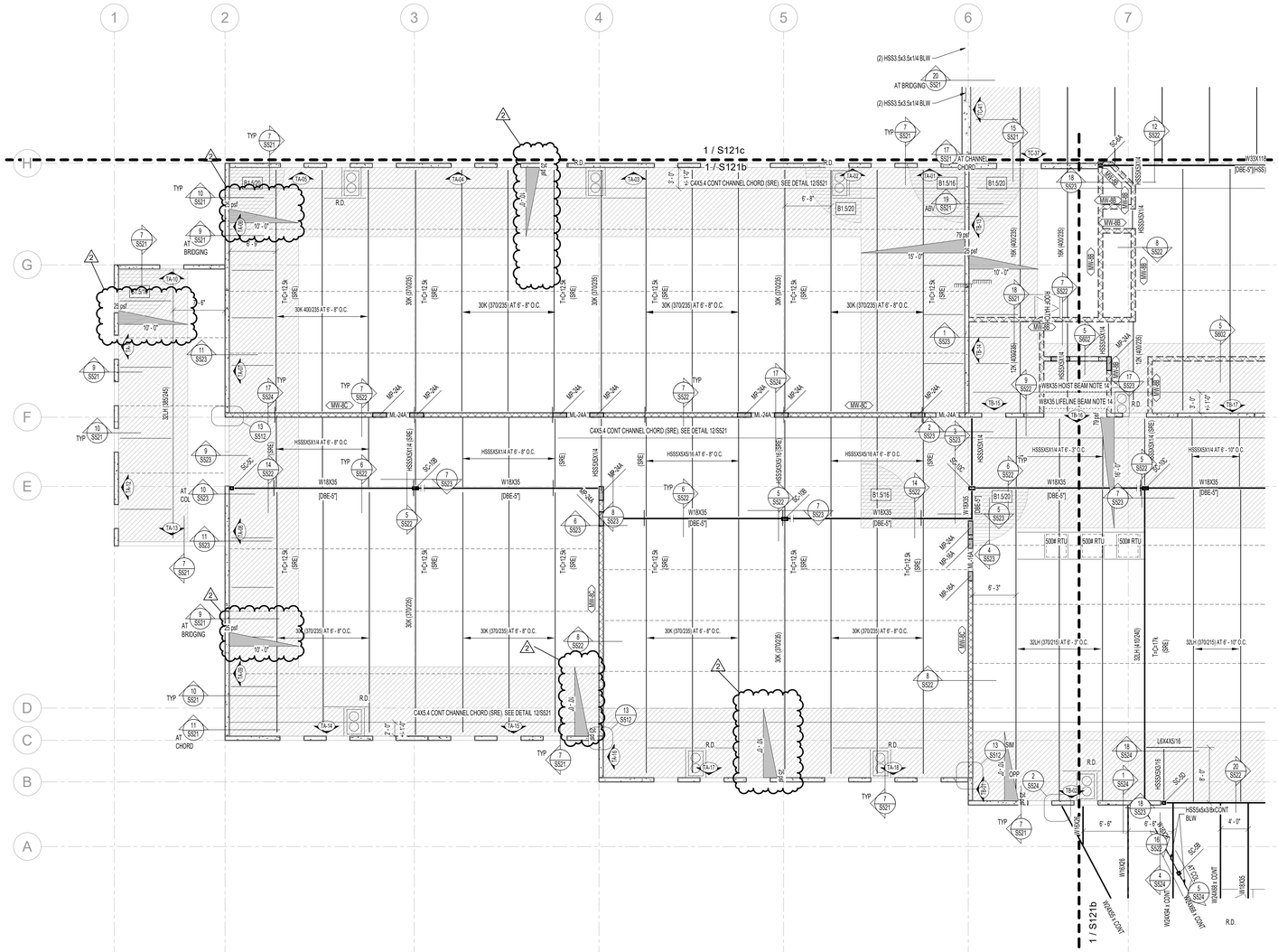
DRAWING ISSUE	BID SET
ISSUE DATE	03/25/2025
NWL PROJECT	0119.002

PROFESSIONAL STRUCTURAL ENGINEER
TRAVIS ROSS BRACKUS
No. 8072017-2203
STATE OF UTAH
04/07/2025

	DATE	REVISION
1	04/01/2025	ADD #2
2	04/07/2025	ADD #3

LEVEL 2 FLOOR PLAN - AREA 'C'

S111c



1 ROOF FRAMING PLAN - AREA 'A'

1/8" = 1'-0" 0" 4'-0" 8'-0" 16'-0"

SEE S010 FOR LEGENDS AND SYMBOLS

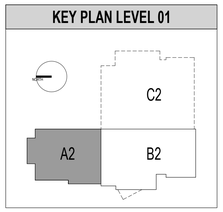
ROOF FRAMING DESIGN LOADS

ROOF LOADS	JOIST	GIRDER
ROOFING	1.0 psf	1.0 psf
INSULATION	2.0 psf	2.0 psf
STEEL DECK	2.2 psf	2.2 psf
STEEL JOISTS	3.0 psf	3.0 psf
STEEL GIRDERS	0 psf	2.5 psf
ELECTRICAL	1.0 psf	1.0 psf
MECHANICAL	2.0 psf	2.0 psf
SPRINKLERS	3.8 psf	1.3 psf
COLLATERAL LOAD	5.0 psf	5.0 psf
SNOW LOAD	35 psf	35 psf
TOTAL LOAD	55 psf	55 psf

ROOF FRAMING NOTES

1. VERIFY ALL ROOF OPENINGS FOR MECHANICAL SHAFTS, DRAINS, ETC. WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
2. JOIST SUPPLIER SHALL DESIGN ALL ROOF JOIST BEARING ENDS AT TILT-UP WALLS TO TRANSFER 6800# (ALLOWABLE) AXIAL LOAD THROUGH JOIST BEARING SHOE.
3. ALL JOISTS SHALL HAVE 5" DEEP BEARING ENDS (UNO).
4. ALL JOIST GIRDERS SHALL HAVE 7.1/2" DEEP BEARING ENDS (UNO).
5. ALL ROOF OPENINGS GREATER THAN, OR EQUAL TO, 12" x 12" SHALL BE FRAMED AS INDICATED IN DETAILS 1/SS21 AND 2/SS21. FOR OPENINGS WHICH CUT LESS THAN TWO DECK FLUTES, SEE DETAIL 3/SS21.
6. SEE DETAIL 4/SS21 WHEN CONCENTRATED LOADS ARE LOCATED MORE THAN 6" FROM JOIST OR JOIST GIRDER PANEL POINT.
7. SEE DETAIL 5/SS21 WHEN MECHANICAL UNITS ARE HUNG BELOW JOISTS. VERIFY SIZE, WEIGHT, AND LOCATION OF ALL ROOF TOP MECHANICAL UNITS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
8. SEE DETAIL 6/SS21 FOR STEEL FRAMES AT ALL ROOF TOP EQUIPMENT. COORDINATE OPENINGS WITH MECHANICAL, ELECTRICAL, AND GENERAL CONTRACTORS.
9. SEE DETAIL 5/SS11 FOR STEEL BRACE DETAIL CONNECTIONS AND LOCATIONS.
10. OPEN WEB STEEL JOISTS AND JOIST GIRDERS SHALL BE DESIGNED BY THE MANUFACTURER TO SUPPORT THE MECHANICAL AND LATERAL LOADS SHOWN ON THE ROOF FRAMING PLANS IN ADDITION TO THE UNIFORM AND POINT LOADS SHOWN.
11. JOIST BRIDGING SHOWN ON PLANS IS FOR REPRESENTATION ONLY; ACTUAL SIZE, QUANTITY, AND LOCATION WILL BE DETERMINED BY THE JOIST SUPPLIER PER 'SJI' REQUIREMENTS. ALL BRIDGING AND BRIDGING ANCHORS NEED TO BE IN PLACE BEFORE APPLYING ANY LOADS. WHERE SKYLIGHT OR MECHANICAL UNITS/DUCTS INTERRUPT HORIZONTAL BRIDGING, PROVIDE CROSS BRIDGING AT JOIST SPACES ON EACH SIDE OF THE OPENING. WHERE DIAGONAL BRIDGING CONFLICTS WITH MECHANICAL DUCTS, REMOVE DIAGONAL BRIDGING AND REPLACE WITH HORIZONTAL BRIDGING AFTER ROOF DECK IS IN PLACE.
12. JOIST DESIGNER SHALL DESIGN JOISTS AND GIRDERS AND SUPPLY ADDITIONAL BRIDGING AS REQUIRED FOR UPLIFT DUE TO WIND. ASSUME:
    - 0.6DL = 12psf
    - 0.6WL = 24psf (UPLIFT).
    - 12psf NET UPLIFT (ASD)
    - NO 1/3 STRESS INCREASE ALLOWED.
13. SEE ARCHITECTURAL PLANS FOR DIMENSIONS TO ALL STEEL COLUMNS.
14. CONTRACTOR TO COORDINATE TOP OF HOIST BEAM AND LIFELINE BEAM ELEVATION WITH ELEVATOR SUPPLIER REQUIREMENTS.
15. STEEL ROOF JOIST SUPPORTING PARTITION DOOR SHALL BE DESIGNED FOR A 10 PSF PATITION DEAD LOAD. ROOF JOISTS SHALL BE DESIGNED FOR A LIVE LOAD DEFLECTION OF L/600 OR 1" MAX.

KEY PLAN LEVEL 01



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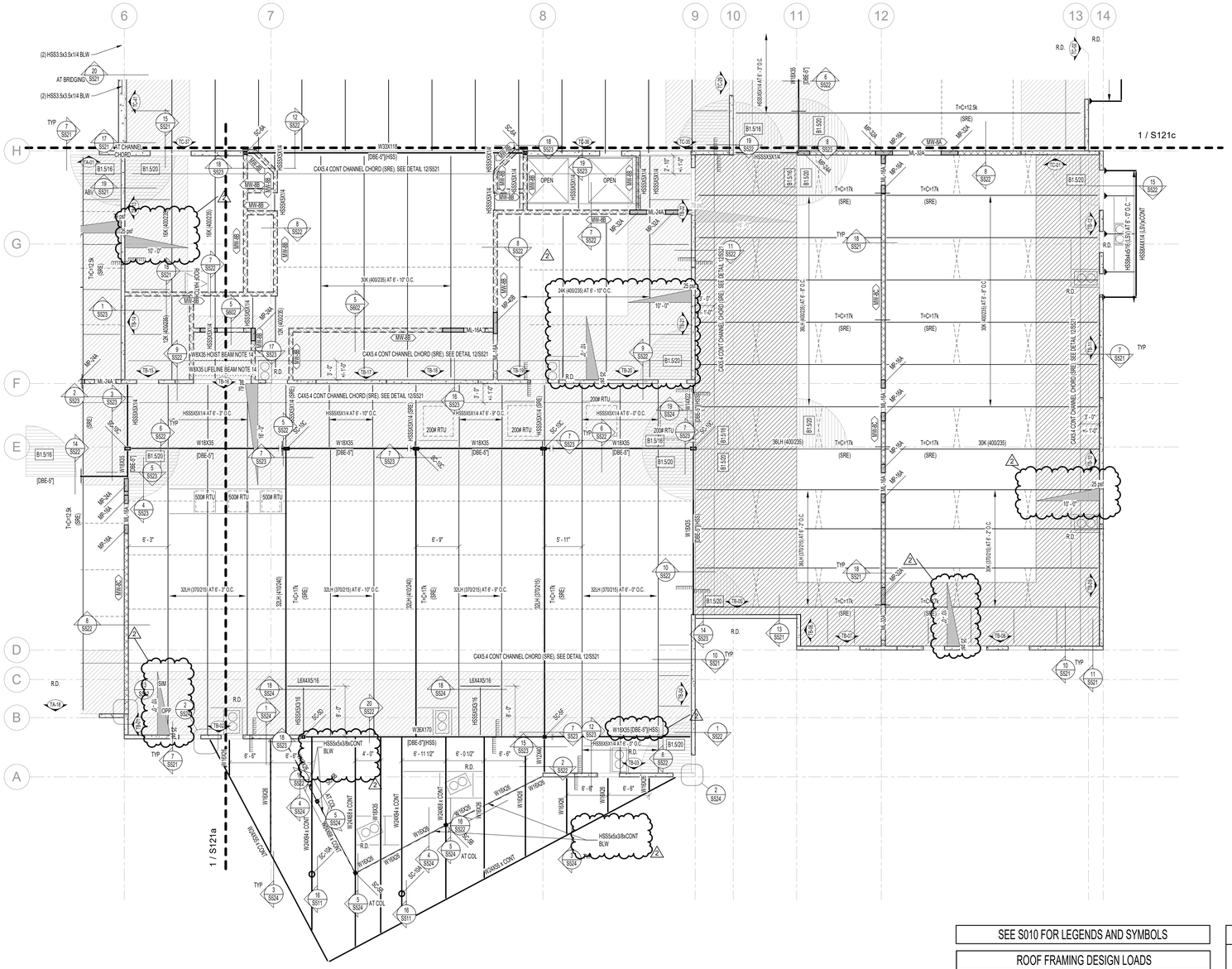
ROOF FRAMING PLAN - AREA 'A'

S121a



1 ROOF FRAMING PLAN - AREA 'B'

1/8" = 1'-0" 0" 4'-0" 8'-0" 16'-0"

SEE S010 FOR LEGENDS AND SYMBOLS

ROOF FRAMING DESIGN LOADS

ROOF LOADS	JOIST	GIRDER
ROOFING	1.0 psf	1.0 psf
INSULATION	2.0 psf	2.0 psf
STEEL DECK	2.2 psf	2.2 psf
STEEL JOISTS	3.0 psf	3.0 psf
STEEL GIRDERS	0 psf	2.5 psf
ELECTRICAL	1.0 psf	1.0 psf
MECHANICAL	2.0 psf	2.0 psf
SPRINKLERS	3.8 psf	1.3 psf
COLLATERAL LOAD	5.0 psf	5.0 psf
SNOW LOAD	35 psf	35 psf
TOTAL LOAD	55 psf	55 psf

ROOF FRAMING NOTES

1. VERIFY ALL ROOF OPENINGS FOR MECHANICAL SHAFTS, DRAINS, ETC. WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
2. JOIST SUPPLIER SHALL DESIGN ALL ROOF JOIST BEARING ENDS AT TILT-UP WALLS TO TRANSFER 6800# (ALLOWABLE) AXIAL LOAD THROUGH JOIST BEARING SHOE.
3. ALL JOISTS SHALL HAVE 5" DEEP BEARING ENDS (UNO).
4. ALL JOIST GIRDERS SHALL HAVE 7 1/2" DEEP BEARING ENDS (UNO).
5. ALL ROOF OPENINGS GREATER THAN, OR EQUAL TO, 12" x 12" SHALL BE FRAMED AS INDICATED IN DETAILS 1/SS21 AND 2/SS21. FOR OPENINGS WHICH CUT LESS THAN TWO DECK FLUTES, SEE DETAIL 3/SS21.
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9. SEE DETAIL 5/SS11 FOR STEEL BRACE DETAIL CONNECTIONS AND LOCATIONS.
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    - 0.6DL = 12psf
    - 0.6WL = 24psf (UPLIFT)
    - 12psf NET UPLIFT (ASD)
    - NO 1/3 STRESS INCREASE ALLOWED.
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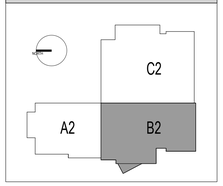
14. CONTRACTOR TO COORDINATE TOP OF HOIST BEAM AND LIFELINE BEAM ELEVATION WITH ELEVATOR SUPPLIER REQUIREMENTS.
15. STEEL ROOF JOIST SUPPORTING PARTITION DOOR SHALL BE DESIGNED FOR A 10 PSF PATTITION DEAD LOAD. ROOF JOISTS SHALL BE DESIGNED FOR A LIVE LOAD DEFLECTION OF L/600 OR 1" MAX.

KEY PLAN LEVEL 01



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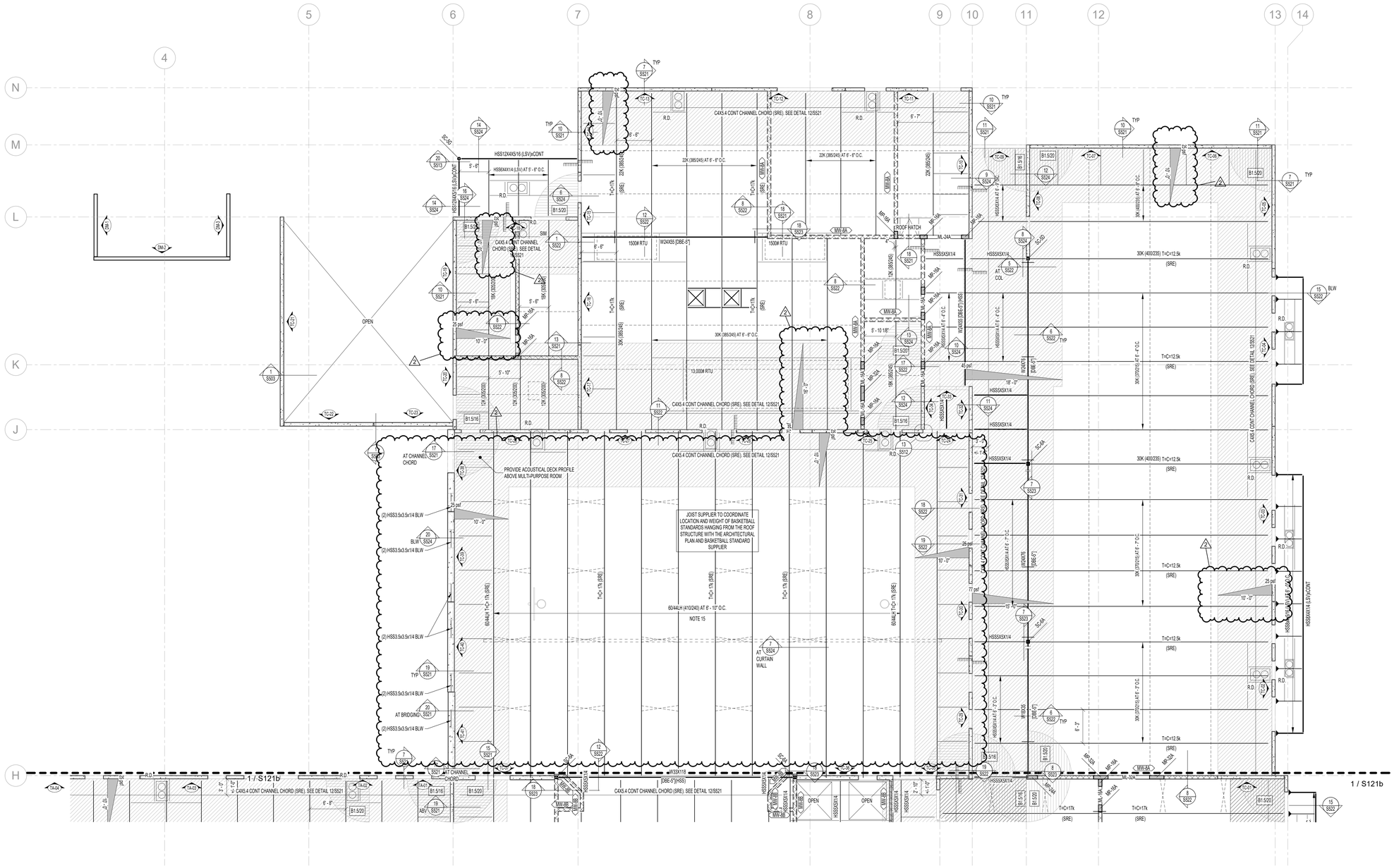
ROOF FRAMING PLAN - AREA 'B'

S121b



1 ROOF FRAMING PLAN - AREA 'C'

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ROOF FRAMING DESIGN LOADS

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INSULATION	2.0 psf	2.0 psf
STEEL DECK	2.2 psf	2.2 psf
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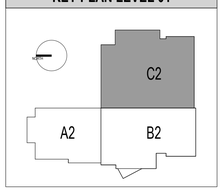
KEY PLAN LEVEL 01



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ROOF FRAMING PLAN - AREA 'C'

S121c

2

LINTEL SCHEDULE

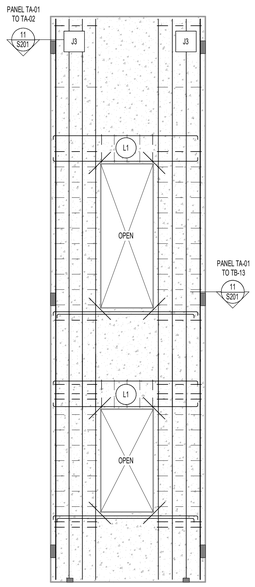
Type	REINFORCING
L1	2' - 0" LINTEL WITH (1) #7 TOP AND BOTTOM AND #3 STIRRUPS AT 10" O.C.
L2	2' - 6" LINTEL WITH (1) #7 TOP AND BOTTOM AND #3 STIRRUPS AT 1' - 0" O.C.
L3	5' - 0" LINTEL WITH (2) #7 TOP AND BOTTOM AND #3 STIRRUPS AT 1' - 0" O.C.
L4	4' - 0" LINTEL WITH (2) #7 TOP AND BOTTOM AND #3 STIRRUPS AT 1' - 0" O.C.
L5	8' - 0" LINTEL WITH (2) #7 TOP AND BOTTOM AND #3 STIRRUPS AT 1' - 0" O.C.
L6	1' - 8" LINTEL WITH (1) #7 TOP AND BOTTOM AND #3 STIRRUPS AT 10" O.C.
L7	9" LINTEL WITH (1) #7 TOP AND BOTTOM AND #3 STIRRUPS AT 1' - 0" O.C.

JAMB SCHEDULE

Type	REINFORCING
J1	(6) #5 E.F. EQUALLY SPACED WITH #3 TIES AT 16" O.C. FOR 12" ABOVE AND BELOW OPENINGS
J2	(6) #5 E.F. AT 6" O.C.
J3	(4) #5 E.F. EQUALLY SPACED WITH #3 TIES AT 12" O.C. FOR 12" ABOVE AND BELOW OPENINGS
J4	(4) #5 E.F. AT 6" O.C.
J5	(2) #5 E.F. EQUALLY SPACED WITH #3 TIES AT 6" O.C. FOR 12" ABOVE AND BELOW OPENINGS
J6	(6) #5 E.F. AT 6" O.C.
J7	(9) #5 E.F. EQUALLY SPACED WITH #3 TIES AT 6" O.C. FOR 12" ABOVE AND BELOW OPENINGS
J8	(2) #5 E.F. AT 6" O.C.
J9	(3) #5 E.F. EQUALLY SPACED WITH #3 TIES AT 4" O.C. FOR 12" ABOVE AND BELOW OPENINGS
J10	(4) #5 E.F. EQUALLY SPACED WITH #3 TIES AT 6" O.C. FOR 12" ABOVE AND BELOW OPENINGS
J11	(2) #5 E.F. EQUALLY SPACED WITH #3 TIES AT 4" O.C. FOR 12" ABOVE AND BELOW OPENINGS

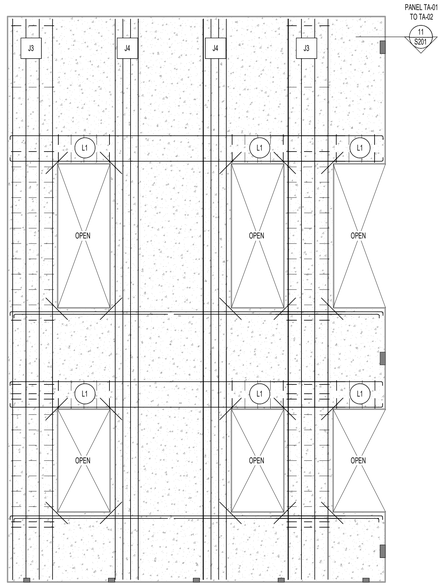
TILT-UP PANEL ELEVATION NOTES

1. SEE FOOTING, FLOOR, AND ROOF FRAMING PLANS AND DETAILS FOR REQUIRED EMBEDS.
2. PANEL ELEVATIONS ARE DRAWN FROM THE INSIDE OF THE BUILDING FACING OUT.
3. SEE DETAILS 1/S301 AND 2/S201 FOR PLACEMENT OF TYPICAL PANEL REINFORCING.
4. SEE DETAIL 3/S201 FOR TYPICAL LINTEL REINFORCING PLACEMENT DIAGRAM.
5. SEE DETAIL 4/S201 FOR TYPICAL JAMB REINFORCING PLACEMENT DIAGRAM.
6. SEE DETAIL 5/S201 FOR MISCELLANEOUS OPENING AND TYPICAL OPENING OR CORNER TRIM REINFORCING.
7. SEE DETAIL 6/S201 FOR TYPICAL WALL PANEL CORNER AND T-INTERSECTION CONNECTION.
8. SEE ARCHITECTURAL DRAWINGS FOR PANEL DIMENSIONS.
9. STAGGER PANEL TO FOOTING EMBEDS ON OPPOSITE FACE OF PANEL AS NEEDED.



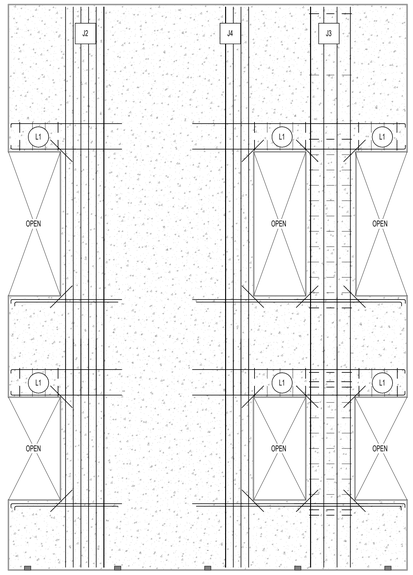
TA-01

CONC STRENGTH	PANEL THICKNESS	VERTICAL REINFORCING	HORIZONTAL REINFORCING
4500 PSI	7.1/4"	#5 at 16" O.C.	#5 AT 18" O.C.



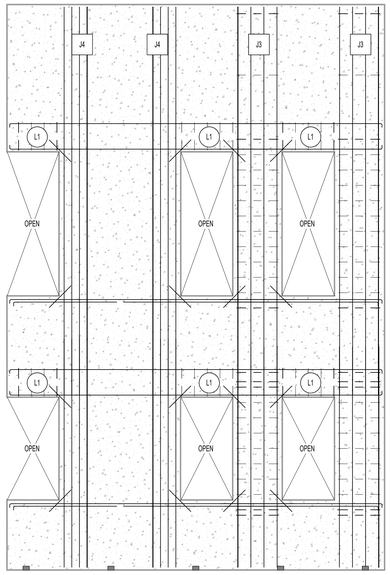
TA-02

CONC STRENGTH	PANEL THICKNESS	VERTICAL REINFORCING	HORIZONTAL REINFORCING
4500 PSI	7.1/4"	#5 at 16" O.C.	#5 AT 18" O.C.



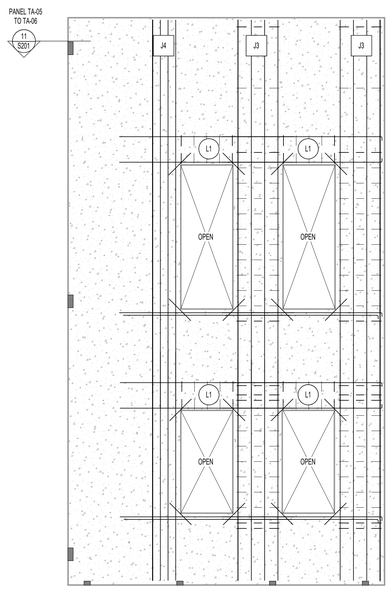
TA-03

CONC STRENGTH	PANEL THICKNESS	VERTICAL REINFORCING	HORIZONTAL REINFORCING
4500 PSI	7.1/4"	#5 at 16" O.C.	#5 AT 18" O.C.



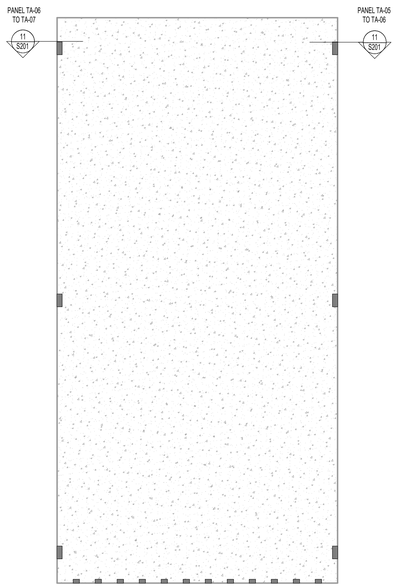
TA-04

CONC STRENGTH	PANEL THICKNESS	VERTICAL REINFORCING	HORIZONTAL REINFORCING
4500 PSI	7.1/4"	#5 at 16" O.C.	#5 AT 18" O.C.



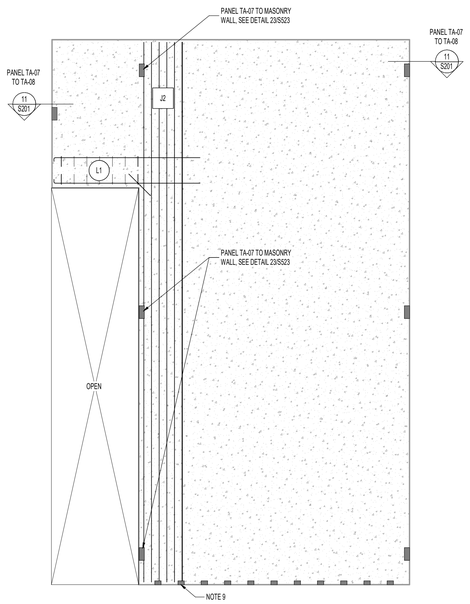
TA-05

CONC STRENGTH	PANEL THICKNESS	VERTICAL REINFORCING	HORIZONTAL REINFORCING
4500 PSI	7.1/4"	#5 at 16" O.C.	#5 AT 18" O.C.



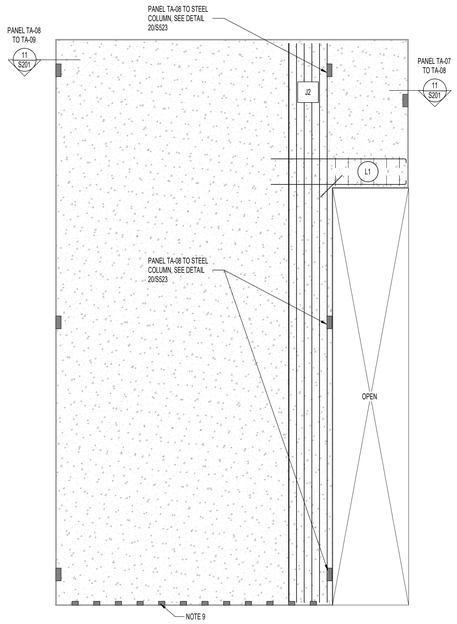
TA-06

CONC STRENGTH	PANEL THICKNESS	VERTICAL REINFORCING	HORIZONTAL REINFORCING
4500 PSI	7.1/4"	#5 at 16" O.C.	#5 AT 18" O.C.



TA-07

CONC STRENGTH	PANEL THICKNESS	VERTICAL REINFORCING	HORIZONTAL REINFORCING
4500 PSI	7.1/4"	#5 at 16" O.C.	#5 AT 18" O.C.



TA-08

CONC STRENGTH	PANEL THICKNESS	VERTICAL REINFORCING	HORIZONTAL REINFORCING
4500 PSI	7.1/4"	#5 at 16" O.C.	#5 AT 18" O.C.

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WWL PROJECT	0119.002

LICENSED PROFESSIONAL STRUCTURAL ENGINEER
TRAVIS ROSS BRACKIUS
7877017-2202
STATE OF UTAH
04/07/2025

	DATE	REVISION
2	04/07/2025	ADD #3

TILT-UP PANEL ELEVATIONS

S202

LINTEL SCHEDULE

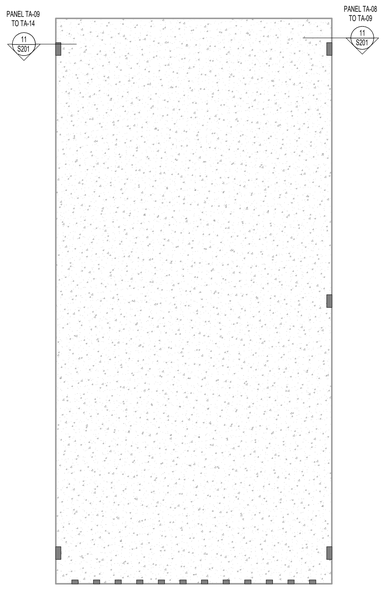
Type	REINFORCING
L1	2' - 0" LINTEL WITH (1) #7 TOP AND BOTTOM AND #3 STIRRUPS AT 10" O.C.
L2	2' - 6" LINTEL WITH (1) #7 TOP AND BOTTOM AND #3 STIRRUPS AT 1' - 0" O.C.
L3	5' - 0" LINTEL WITH (2) #7 TOP AND BOTTOM AND #3 STIRRUPS AT 1' - 0" O.C.
L4	4' - 0" LINTEL WITH (2) #7 TOP AND BOTTOM AND #3 STIRRUPS AT 1' - 0" O.C.
L5	8' - 0" LINTEL WITH (2) #7 TOP AND BOTTOM AND #3 STIRRUPS AT 1' - 0" O.C.
L6	1' - 8" LINTEL WITH (1) #7 TOP AND BOTTOM AND #3 STIRRUPS AT 10" O.C.
L7	9" LINTEL WITH (1) #7 TOP AND BOTTOM AND #3 STIRRUPS AT 1' - 0" O.C.

JAMB SCHEDULE

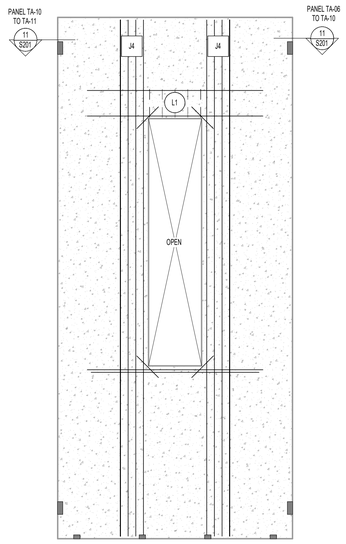
Type	REINFORCING
J1	(6) #5 E.F. EQUALLY SPACED WITH #3 TIES AT 16" O.C. FOR 12" ABOVE AND BELOW OPENINGS
J2	(6) #5 E.F. AT 6" O.C.
J3	(4) #5 E.F. EQUALLY SPACED WITH #3 TIES AT 12" O.C. FOR 12" ABOVE AND BELOW OPENINGS
J4	(4) #5 E.F. AT 6" O.C.
J5	(2) #5 E.F. EQUALLY SPACED WITH #3 TIES AT 6" O.C. FOR 12" ABOVE AND BELOW OPENINGS
J6	(6) #5 E.F. AT 6" O.C.
J7	(9) #5 E.F. EQUALLY SPACED WITH #3 TIES AT 6" O.C. FOR 12" ABOVE AND BELOW OPENINGS
J8	(2) #5 E.F. AT 6" O.C.
J9	(3) #5 E.F. EQUALLY SPACED WITH #3 TIES AT 4" O.C. FOR 12" ABOVE AND BELOW OPENINGS
J10	(4) #5 E.F. EQUALLY SPACED WITH #3 TIES AT 6" O.C. FOR 12" ABOVE AND BELOW OPENINGS
J11	(2) #5 E.F. EQUALLY SPACED WITH #3 TIES AT 4" O.C. FOR 12" ABOVE AND BELOW OPENINGS

TILT-UP PANEL ELEVATION NOTES

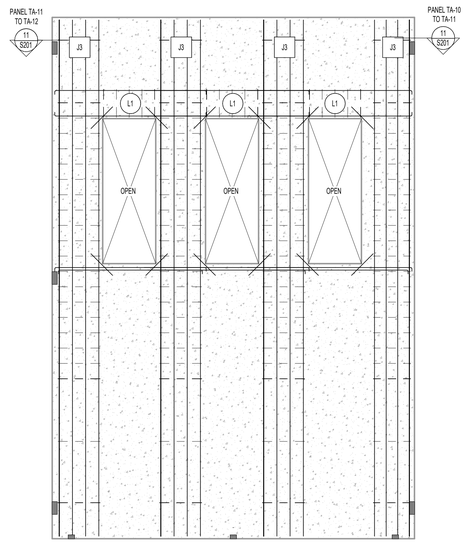
1. SEE FOOTING, FLOOR, AND ROOF FRAMING PLANS AND DETAILS FOR REQUIRED EMBEDS.
2. PANEL ELEVATIONS ARE DRAWN FROM THE INSIDE OF THE BUILDING FACING OUT.
3. SEE DETAILS 1/S201 AND 2/S201 FOR PLACEMENT OF TYPICAL PANEL REINFORCING.
4. SEE DETAIL 3/S201 FOR TYPICAL LINTEL REINFORCING PLACEMENT DIAGRAM.
5. SEE DETAIL 4/S201 FOR TYPICAL JAMB REINFORCING PLACEMENT DIAGRAM.
6. SEE DETAIL 5/S201 FOR MISCELLANEOUS OPENING AND TYPICAL OPENING OR CORNER TRIM REINFORCING.
7. SEE DETAIL 6/S201 FOR TYPICAL WALL PANEL CORNER AND T-INTERSECTION CONNECTION.
8. SEE ARCHITECTURAL DRAWINGS FOR PANEL DIMENSIONS.
9. STAGGER PANEL TO FOOTING EMBEDS ON OPPOSITE FACE OF PANEL AS NEEDED.



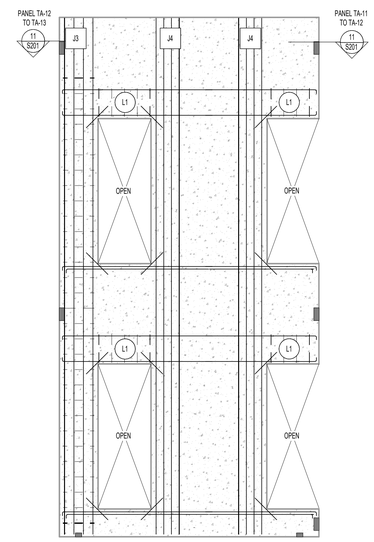
TA-09			
CONC STRENGTH	PANEL THICKNESS	VERTICAL REINFORCING	HORIZONTAL REINFORCING
4500 PSI	7.1/4"	#5 at 16" O.C.	#5 AT 18" O.C.



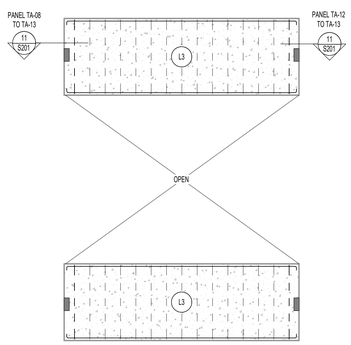
TA-10			
CONC STRENGTH	PANEL THICKNESS	VERTICAL REINFORCING	HORIZONTAL REINFORCING
4500 PSI	7.1/4"	#5 at 12" O.C., E.F	#5 AT 18" O.C.



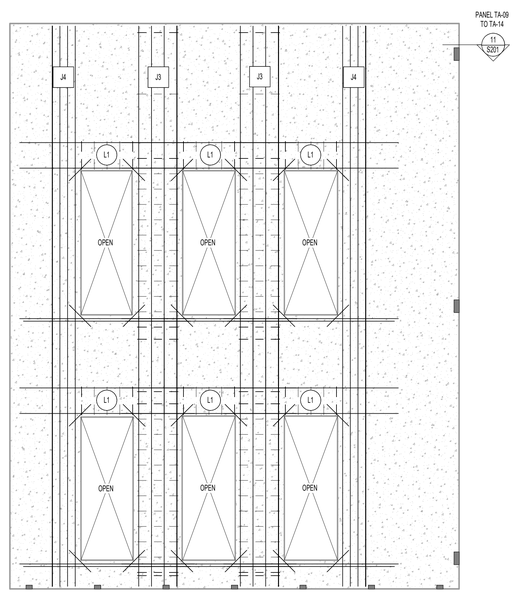
TA-11			
CONC STRENGTH	PANEL THICKNESS	VERTICAL REINFORCING	HORIZONTAL REINFORCING
4500 PSI	7.1/4"	#5 at 12" O.C., E.F	#5 AT 18" O.C.



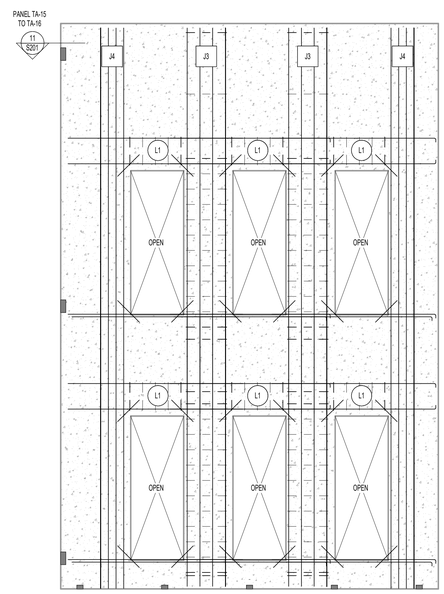
TA-12			
CONC STRENGTH	PANEL THICKNESS	VERTICAL REINFORCING	HORIZONTAL REINFORCING
4500 PSI	7.1/4"	#5 at 12" O.C., E.F	#5 AT 18" O.C.



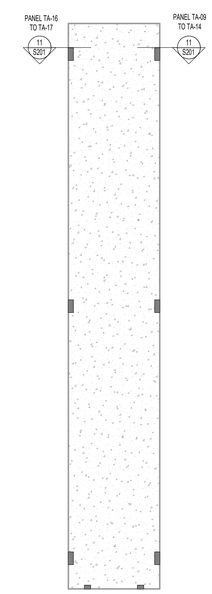
TA-13			
CONC STRENGTH	PANEL THICKNESS	VERTICAL REINFORCING	HORIZONTAL REINFORCING
4500 PSI	7.1/4"	#5 at 18" O.C..	#5 AT 18" O.C.



TA-14			
CONC STRENGTH	PANEL THICKNESS	VERTICAL REINFORCING	HORIZONTAL REINFORCING
4500 PSI	7.1/4"	#5 at 16" O.C.	#5 AT 18" O.C.



TA-15			
CONC STRENGTH	PANEL THICKNESS	VERTICAL REINFORCING	HORIZONTAL REINFORCING
4500 PSI	7.1/4"	#5 at 16" O.C.	#5 AT 18" O.C.



TA-16			
CONC STRENGTH	PANEL THICKNESS	VERTICAL REINFORCING	HORIZONTAL REINFORCING
4500 PSI	7.1/4"	#5 at 16" O.C.	#5 AT 18" O.C.

naylor wentworth lund
architects

Client

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Consultants

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SCHOOL DISTRICT

HYDE PARK ELEMENTARY SCHOOL
333 EAST 300 NORTH
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84318

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STATE OF UTAH
04/07/2025

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TILT-UP PANEL ELEVATIONS

S203

LINTEL SCHEDULE

Type	REINFORCING
L1	2' - 0" LINTEL WITH (1) #7 TOP AND BOTTOM AND #3 STIRRUPS AT 10" O.C.
L2	2' - 6" LINTEL WITH (1) #7 TOP AND BOTTOM AND #3 STIRRUPS AT 1' - 0" O.C.
L3	5' - 0" LINTEL WITH (2) #7 TOP AND BOTTOM AND #3 STIRRUPS AT 1' - 0" O.C.
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JAMB SCHEDULE

Type	REINFORCING
J1	(6) #5 E.F. EQUALLY SPACED WITH #3 TIES AT 16" O.C. FOR 12" ABOVE AND BELOW OPENINGS
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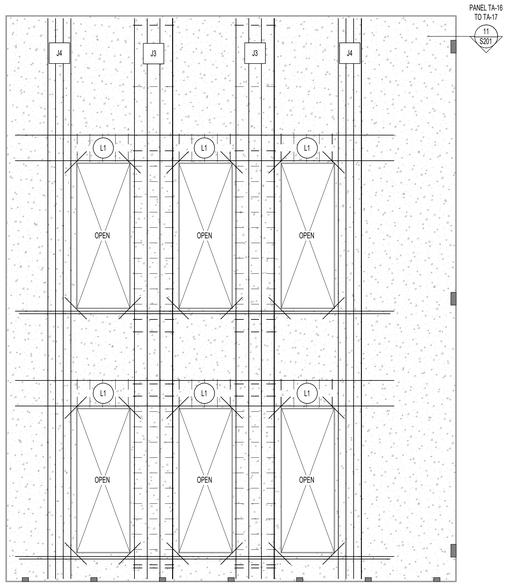
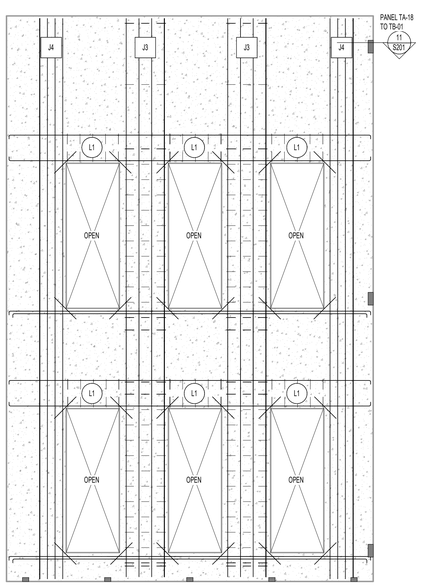


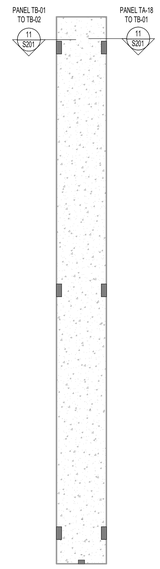
TA-17

CONC STRENGTH	PANEL THICKNESS	VERTICAL REINFORCING	HORIZONTAL REINFORCING
4500 PSI	7.1/4"	#5 at 16" O.C.	#5 AT 18" O.C.



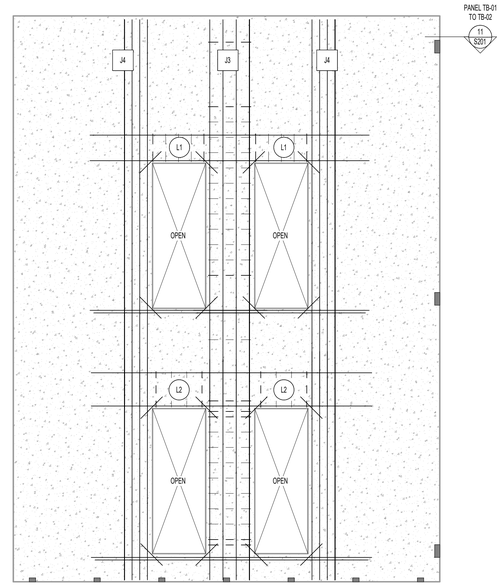
TA-18

CONC STRENGTH	PANEL THICKNESS	VERTICAL REINFORCING	HORIZONTAL REINFORCING
4500 PSI	7.1/4"	#5 at 16" O.C.	#5 AT 18" O.C.



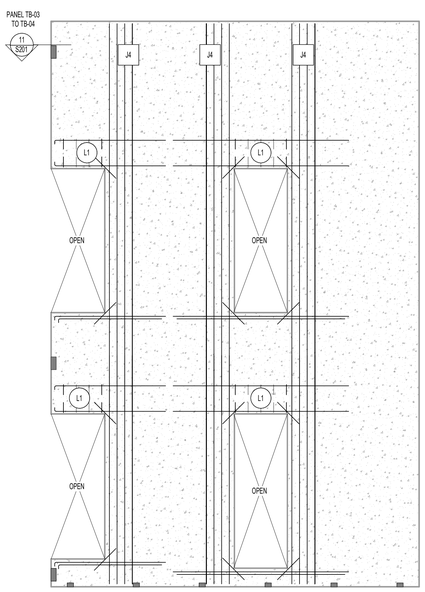
TB-01

CONC STRENGTH	PANEL THICKNESS	VERTICAL REINFORCING	HORIZONTAL REINFORCING
4500 PSI	7.1/4"	#5 at 16" O.C.	#5 AT 18" O.C.



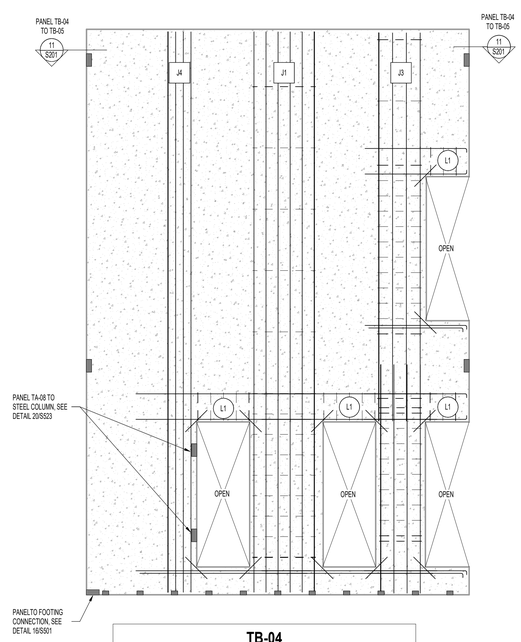
TB-02

CONC STRENGTH	PANEL THICKNESS	VERTICAL REINFORCING	HORIZONTAL REINFORCING
4500 PSI	7.1/4"	#5 at 16" O.C.	#5 AT 18" O.C.



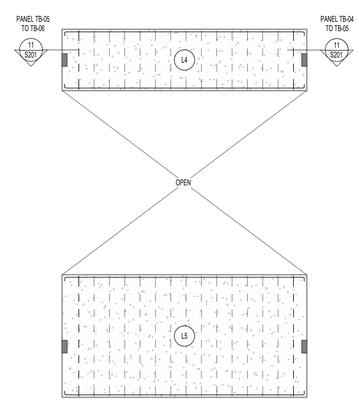
TB-03

CONC STRENGTH	PANEL THICKNESS	VERTICAL REINFORCING	HORIZONTAL REINFORCING
4500 PSI	7.1/4"	#5 at 16" O.C.	#5 AT 18" O.C.



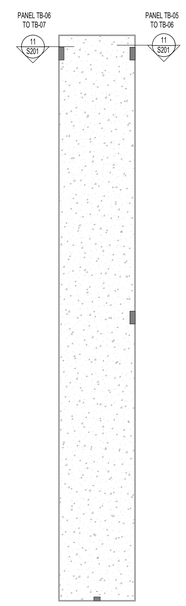
TB-04

CONC STRENGTH	PANEL THICKNESS	VERTICAL REINFORCING	HORIZONTAL REINFORCING
4500 PSI	7.1/4"	#5 at 16" O.C.	#5 AT 18" O.C.



TB-05

CONC STRENGTH	PANEL THICKNESS	VERTICAL REINFORCING	HORIZONTAL REINFORCING
4500 PSI	7.1/4"	#5 at 16" O.C..	#5 AT 18" O.C.



TB-06

CONC STRENGTH	PANEL THICKNESS	VERTICAL REINFORCING	HORIZONTAL REINFORCING
4500 PSI	7.1/4"	#5 at 16" O.C.	#5 AT 18" O.C.

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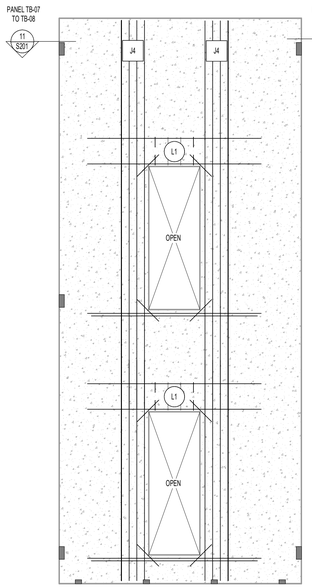
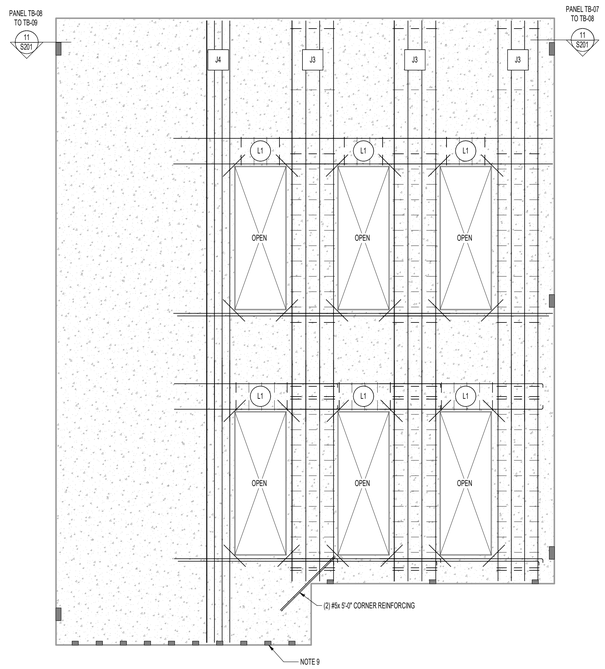
TILT-UP PANEL ELEVATIONS

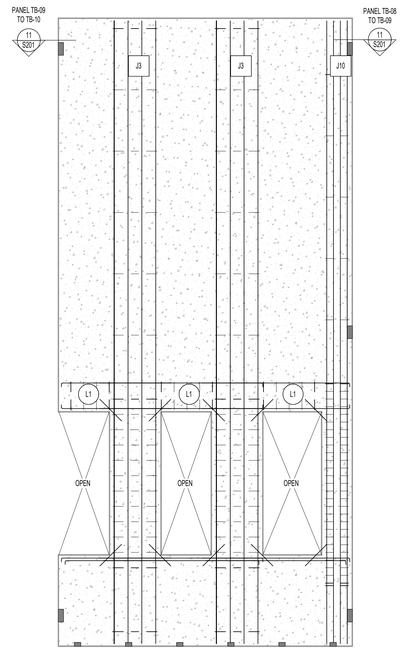
S204



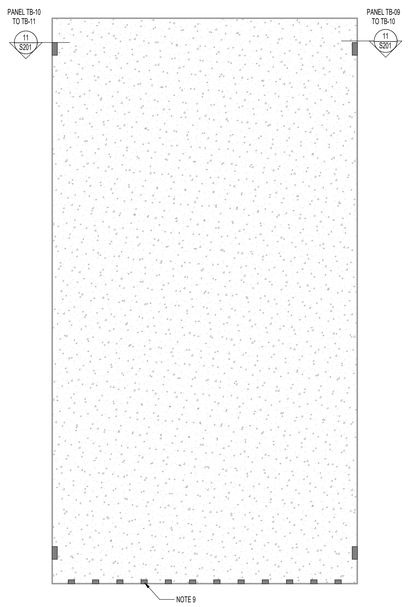
TB-07			
CONC STRENGTH	PANEL THICKNESS	VERTICAL REINFORCING	HORIZONTAL REINFORCING
4500 PSI	7.1/4"	#5 at 16" O.C.	#5 AT 18" O.C.



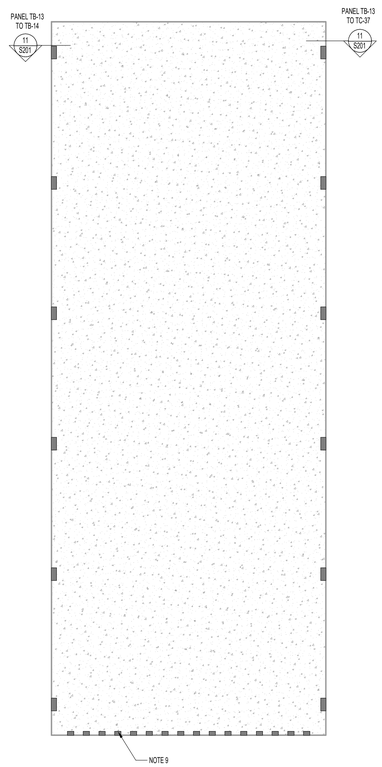
TB-08			
CONC STRENGTH	PANEL THICKNESS	VERTICAL REINFORCING	HORIZONTAL REINFORCING
4500 PSI	7.1/4"	#5 at 16" O.C.	#5 AT 18" O.C.



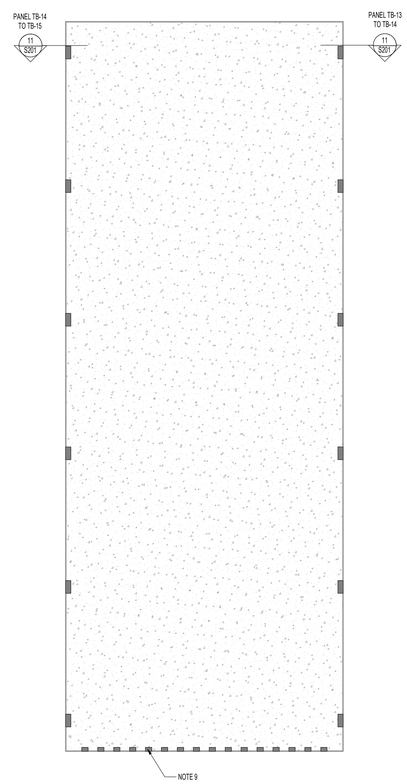
TB-09			
CONC STRENGTH	PANEL THICKNESS	VERTICAL REINFORCING	HORIZONTAL REINFORCING
4500 PSI	7.1/4"	#5 at 16" O.C.	#5 AT 18" O.C.



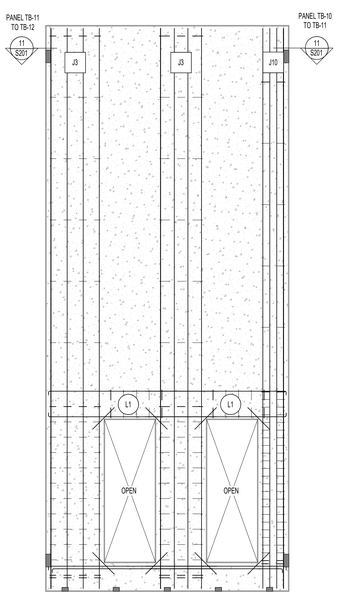
TB-10			
CONC STRENGTH	PANEL THICKNESS	VERTICAL REINFORCING	HORIZONTAL REINFORCING
4500 PSI	7.1/4"	#5 at 16" O.C.	#5 AT 18" O.C.



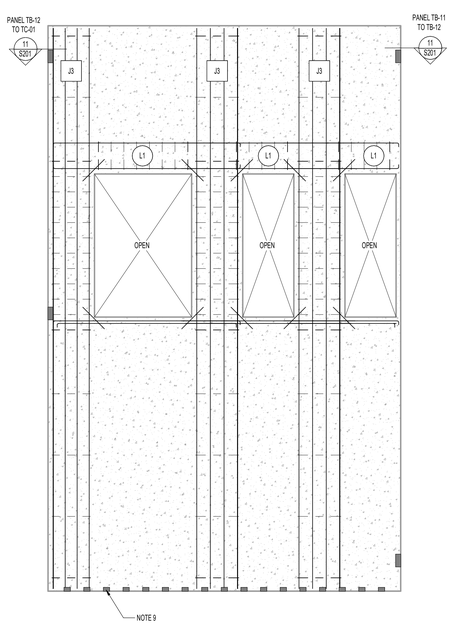
TB-13			
CONC STRENGTH	PANEL THICKNESS	VERTICAL REINFORCING	HORIZONTAL REINFORCING
4500 PSI	7.1/4"	#5 at 11" O.C.	#5 AT 18" O.C.



TB-14			
CONC STRENGTH	PANEL THICKNESS	VERTICAL REINFORCING	HORIZONTAL REINFORCING
4500 PSI	7.1/4"	#5 at 11" O.C.	#5 AT 18" O.C.



TB-11			
CONC STRENGTH	PANEL THICKNESS	VERTICAL REINFORCING	HORIZONTAL REINFORCING
4500 PSI	7.1/4"	#5 at 16" O.C.	#5 AT 18" O.C.



TB-12			
CONC STRENGTH	PANEL THICKNESS	VERTICAL REINFORCING	HORIZONTAL REINFORCING
4500 PSI	11.1/4"	#5 AT 9" O.C. E.F.	#5 AT 18" O.C., E.F.

TILT-UP PANEL ELEVATION NOTES

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JAMB SCHEDULE

Type	REINFORCING
J1	(6) #5 E.F. EQUALLY SPACED WITH #3 TIES AT 16" O.C. FOR 12" ABOVE AND BELOW OPENINGS
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J7	(9) #5 E.F. EQUALLY SPACED WITH #3 TIES AT 6" O.C. FOR 12" ABOVE AND BELOW OPENINGS
J8	(2) #5 E.F. AT 6" O.C.
J9	(3) #5 E.F. EQUALLY SPACED WITH #3 TIES AT 4" O.C. FOR 12" ABOVE AND BELOW OPENINGS
J10	(4) #5 E.F. EQUALLY SPACED WITH #3 TIES AT 6" O.C. FOR 12" ABOVE AND BELOW OPENINGS
J11	(2) #5 E.F. EQUALLY SPACED WITH #3 TIES AT 4" O.C. FOR 12" ABOVE AND BELOW OPENINGS

LINTEL SCHEDULE

Type	REINFORCING
L1	2' - 0" LINTEL WITH (1) #7 TOP AND BOTTOM AND #3 STIRRUPS AT 10" O.C.
L2	2' - 6" LINTEL WITH (1) #7 TOP AND BOTTOM AND #3 STIRRUPS AT 1' - 0" O.C.
L3	5' - 0" LINTEL WITH (2) #7 TOP AND BOTTOM AND #3 STIRRUPS AT 1' - 0" O.C.
L4	4' - 0" LINTEL WITH (2) #7 TOP AND BOTTOM AND #3 STIRRUPS AT 1' - 0" O.C.
L5	8' - 0" LINTEL WITH (2) #7 TOP AND BOTTOM AND #3 STIRRUPS AT 1' - 0" O.C.
L6	1' - 8" LINTEL WITH (1) #7 TOP AND BOTTOM AND #3 STIRRUPS AT 10" O.C.
L7	9" LINTEL WITH (1) #7 TOP AND BOTTOM AND #3 STIRRUPS AT 1' - 0" O.C.

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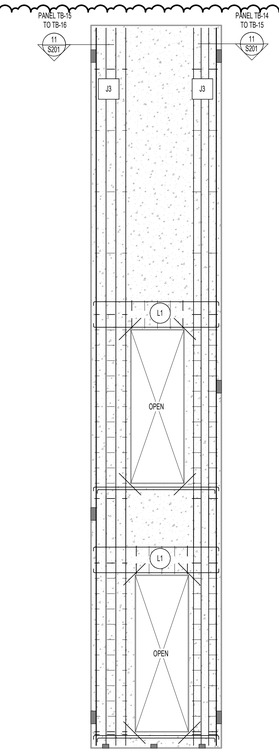
DRAWING ISSUE	BID SET
ISSUE DATE	03/25/2025
NWL PROJECT	0119.002

LICENSED PROFESSIONAL STRUCTURAL ENGINEER
TRAVIS ROSS BRACKUS
8877017-2202
STATE OF UTAH
04/07/2025

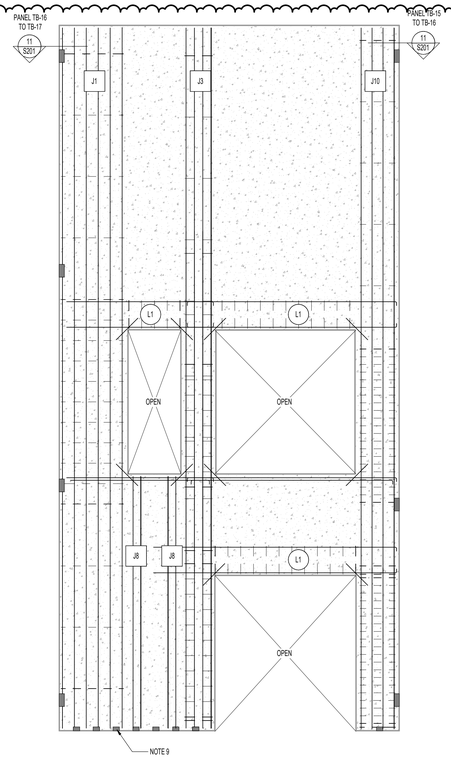
	DATE	REVISION
2	04/07/2025	ADD #3

TILT-UP PANEL ELEVATIONS

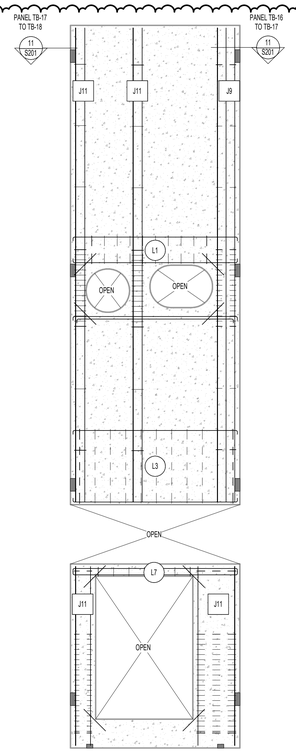
S205



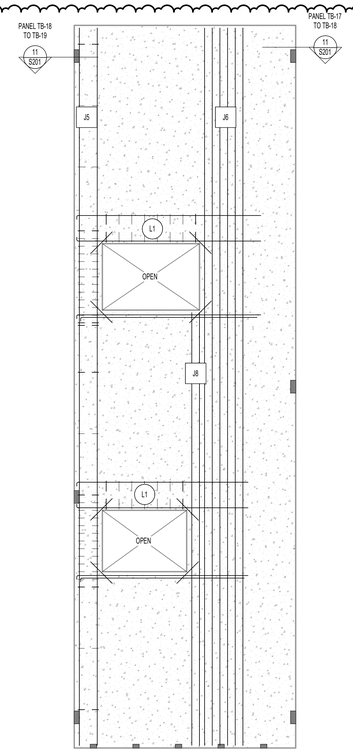
TB-15			
CONC STRENGTH	PANEL THICKNESS	VERTICAL REINFORCING	HORIZONTAL REINFORCING
6000 PSI	7.1/4"	#5 AT 9" O.C.	#5 AT 18" O.C.



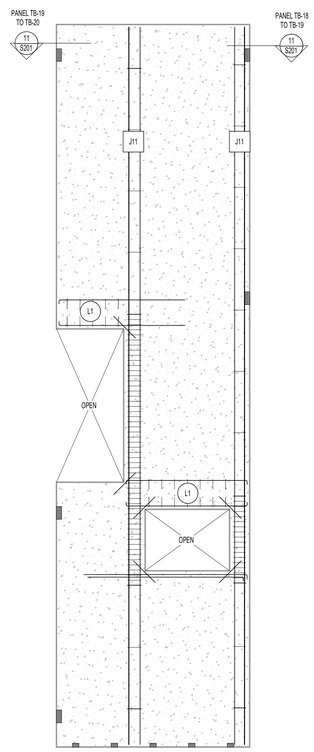
TB-16			
CONC STRENGTH	PANEL THICKNESS	VERTICAL REINFORCING	HORIZONTAL REINFORCING
6000 PSI	7.1/4"	#5 AT 9" O.C.	#5 AT 18" O.C.



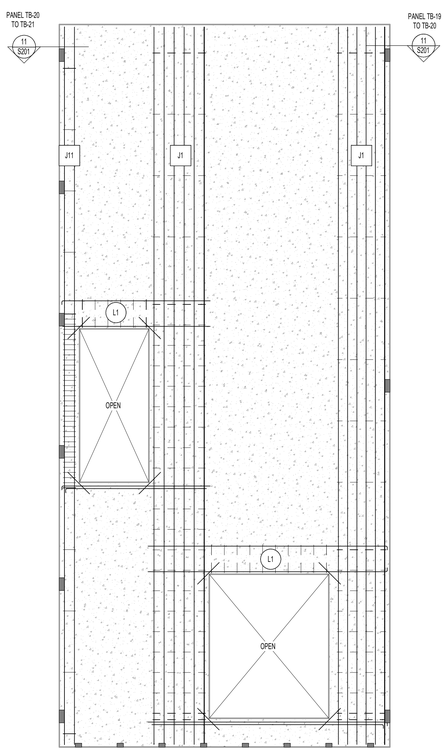
TB-17			
CONC STRENGTH	PANEL THICKNESS	VERTICAL REINFORCING	HORIZONTAL REINFORCING
6000 PSI	7.1/4"	#5 AT 9" O.C.	#5 AT 18" O.C.



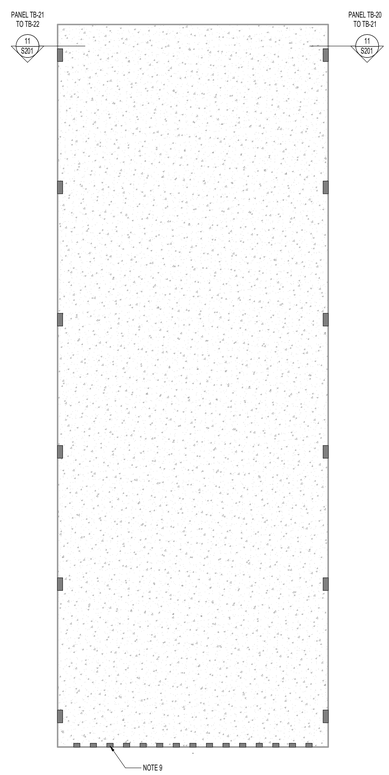
TB-18			
CONC STRENGTH	PANEL THICKNESS	VERTICAL REINFORCING	HORIZONTAL REINFORCING
6000 PSI	7.1/4"	#5 AT 9" O.C.	#5 AT 18" O.C.



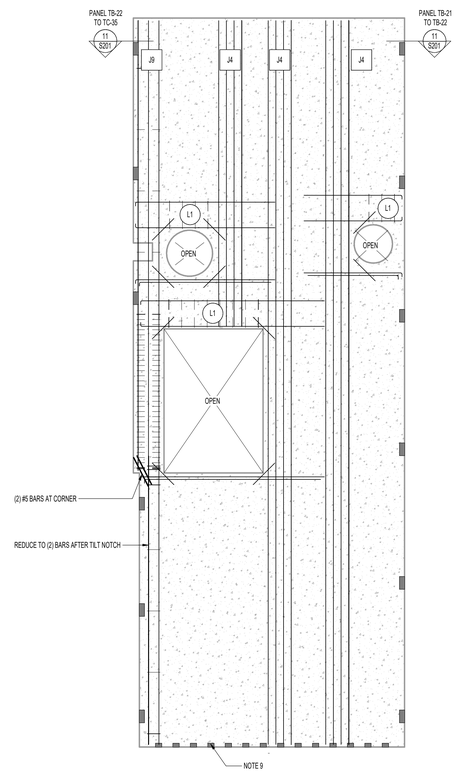
TB-19			
CONC STRENGTH	PANEL THICKNESS	VERTICAL REINFORCING	HORIZONTAL REINFORCING
6000 PSI	7.1/4"	#5 AT 9" O.C.	#5 AT 18" O.C.



TB-20			
CONC STRENGTH	PANEL THICKNESS	VERTICAL REINFORCING	HORIZONTAL REINFORCING
6000 PSI	7.1/4"	#5 AT 9" O.C.	#5 AT 18" O.C.



TB-21			
CONC STRENGTH	PANEL THICKNESS	VERTICAL REINFORCING	HORIZONTAL REINFORCING
4500 PSI	7.1/4"	#5 at 11" O.C.	#5 AT 18" O.C.



TB-22			
CONC STRENGTH	PANEL THICKNESS	VERTICAL REINFORCING	HORIZONTAL REINFORCING
4500 PSI	7.1/4"	#5 at 11" O.C.	#5 AT 18" O.C.

TILT-UP PANEL ELEVATION NOTES

1. SEE FOOTING, FLOOR, AND ROOF FRAMING PLANS AND DETAILS FOR REQUIRED EMBEDS.
2. PANEL ELEVATIONS ARE DRAWN FROM THE INSIDE OF THE BUILDING FACING OUT.
3. SEE DETAILS 1/S301 AND 2/S201 FOR PLACEMENT OF TYPICAL PANEL REINFORCING.
4. SEE DETAIL 3/S201 FOR TYPICAL LINTEL REINFORCING PLACEMENT DIAGRAM.
5. SEE DETAIL 4/S201 FOR TYPICAL JAMB REINFORCING PLACEMENT DIAGRAM.
6. SEE DETAIL 5/S201 FOR MISCELLANEOUS OPENING AND TYPICAL OPENING OR CORNER TRIM REINFORCING.
7. SEE DETAIL 6/S201 FOR TYPICAL WALL PANEL CORNER AND T-INTERSECTION CONNECTION.
8. SEE ARCHITECTURAL DRAWINGS FOR PANEL DIMENSIONS.
9. STAGGER PANEL TO FOOTING EMBEDS ON OPPOSITE FACE OF PANEL AS NEEDED.

JAMB SCHEDULE

Type	REINFORCING
J1	(6) #5 E.F. EQUALLY SPACED WITH #3 TIES AT 16" O.C. FOR 12" ABOVE AND BELOW OPENINGS
J2	(6) #5 E.F. AT 6" O.C.
J3	(4) #5 E.F. EQUALLY SPACED WITH #3 TIES AT 12" O.C. FOR 12" ABOVE AND BELOW OPENINGS
J4	(4) #5 E.F. AT 6" O.C.
J5	(2) #5 E.F. EQUALLY SPACED WITH #3 TIES AT 6" O.C. FOR 12" ABOVE AND BELOW OPENINGS
J6	(6) #5 E.F. AT 6" O.C.
J7	(9) #5 E.F. EQUALLY SPACED WITH #3 TIES AT 6" O.C. FOR 12" ABOVE AND BELOW OPENINGS
J8	(2) #5 E.F. AT 6" O.C.
J9	(3) #5 E.F. EQUALLY SPACED WITH #3 TIES AT 4" O.C. FOR 12" ABOVE AND BELOW OPENINGS
J10	(4) #5 E.F. EQUALLY SPACED WITH #3 TIES AT 6" O.C. FOR 12" ABOVE AND BELOW OPENINGS
J11	(2) #5 E.F. EQUALLY SPACED WITH #3 TIES AT 4" O.C. FOR 12" ABOVE AND BELOW OPENINGS

LINTEL SCHEDULE

Type	REINFORCING
L1	2' - 0" LINTEL WITH (1) #7 TOP AND BOTTOM AND #3 STIRRUPS AT 10" O.C.
L2	2' - 6" LINTEL WITH (1) #7 TOP AND BOTTOM AND #3 STIRRUPS AT 1' - 0" O.C.
L3	5' - 0" LINTEL WITH (2) #7 TOP AND BOTTOM AND #3 STIRRUPS AT 1' - 0" O.C.
L4	4' - 0" LINTEL WITH (2) #7 TOP AND BOTTOM AND #3 STIRRUPS AT 1' - 0" O.C.
L5	8' - 0" LINTEL WITH (2) #7 TOP AND BOTTOM AND #3 STIRRUPS AT 1' - 0" O.C.
L6	1' - 8" LINTEL WITH (1) #7 TOP AND BOTTOM AND #3 STIRRUPS AT 10" O.C.
L7	9" LINTEL WITH (1) #7 TOP AND BOTTOM AND #3 STIRRUPS AT 1' - 0" O.C.

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84318

DRAWING ISSUE	BID SET
ISSUE DATE	03/25/2025
NWL PROJECT	0119.002

LICENSED PROFESSIONAL STRUCTURAL ENGINEER
TRAVIS ROSS BRADDOCK
6017217-2203
STATE OF UTAH
04/07/2025

	DATE	REVISION
1	04/01/2025	ADD #2
2	04/07/2025	ADD #3

TILT-UP PANEL ELEVATIONS

S206

2

LINTEL SCHEDULE

Type	REINFORCING
L1	2' - 0" LINTEL WITH (1) #7 TOP AND BOTTOM AND #3 STIRRUPS AT 10" O.C.
L2	2' - 6" LINTEL WITH (1) #7 TOP AND BOTTOM AND #3 STIRRUPS AT 1' - 0" O.C.
L3	5' - 0" LINTEL WITH (2) #7 TOP AND BOTTOM AND #3 STIRRUPS AT 1' - 0" O.C.
L4	4' - 0" LINTEL WITH (2) #7 TOP AND BOTTOM AND #3 STIRRUPS AT 1' - 0" O.C.
L5	8' - 0" LINTEL WITH (2) #7 TOP AND BOTTOM AND #3 STIRRUPS AT 1' - 0" O.C.
L6	1' - 8" LINTEL WITH (1) #7 TOP AND BOTTOM AND #3 STIRRUPS AT 10" O.C.
L7	9" LINTEL WITH (1) #7 TOP AND BOTTOM AND #3 STIRRUPS AT 1' - 0" O.C.

JAMB SCHEDULE

Type	REINFORCING
J1	(6) #5 E.F. EQUALLY SPACED WITH #3 TIES AT 16" O.C. FOR 12" ABOVE AND BELOW OPENINGS
J2	(6) #5 E.F. AT 6" O.C.
J3	(4) #5 E.F. EQUALLY SPACED WITH #3 TIES AT 12" O.C. FOR 12" ABOVE AND BELOW OPENINGS
J4	(4) #5 E.F. AT 6" O.C.
J5	(2) #5 E.F. EQUALLY SPACED WITH #3 TIES AT 6" O.C. FOR 12" ABOVE AND BELOW OPENINGS
J6	(6) #5 E.F. AT 6" O.C.
J7	(5) #5 E.F. EQUALLY SPACED WITH #3 TIES AT 6" O.C. FOR 12" ABOVE AND BELOW OPENINGS
J8	(2) #5 E.F. AT 6" O.C.
J9	(3) #5 E.F. EQUALLY SPACED WITH #3 TIES AT 4" O.C. FOR 12" ABOVE AND BELOW OPENINGS
J10	(4) #5 E.F. EQUALLY SPACED WITH #3 TIES AT 6" O.C. FOR 12" ABOVE AND BELOW OPENINGS
J11	(2) #5 E.F. EQUALLY SPACED WITH #3 TIES AT 4" O.C. FOR 12" ABOVE AND BELOW OPENINGS

TILT-UP PANEL ELEVATION NOTES

1. SEE FOOTING, FLOOR, AND ROOF FRAMING PLANS AND DETAILS FOR REQUIRED EMBEDS.
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3. SEE DETAILS 1/S301 AND 2/S201 FOR PLACEMENT OF TYPICAL PANEL REINFORCING.
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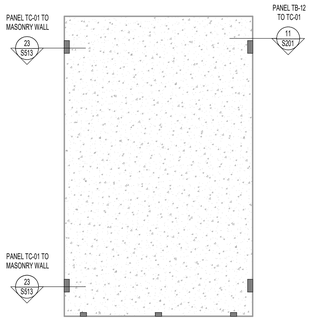
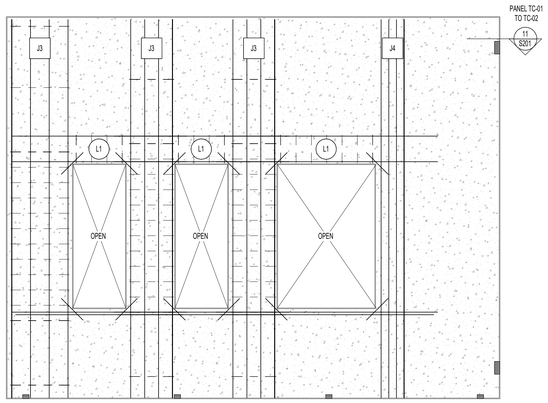
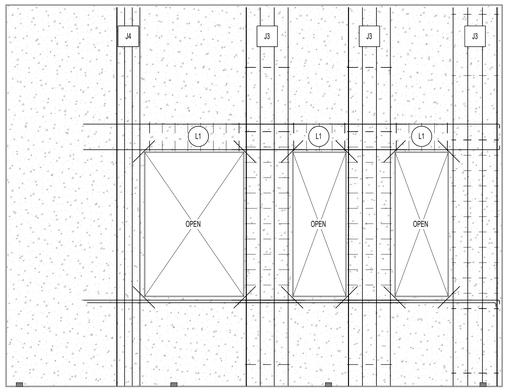
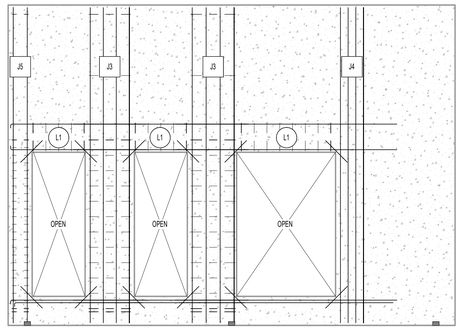
8. SEE ARCHITECTURAL DRAWINGS FOR PANEL DIMENSIONS.
9. STAGGER PANEL TO FOOTING EMBEDS ON OPPOSITE FACE OF PANEL AS NEEDED.







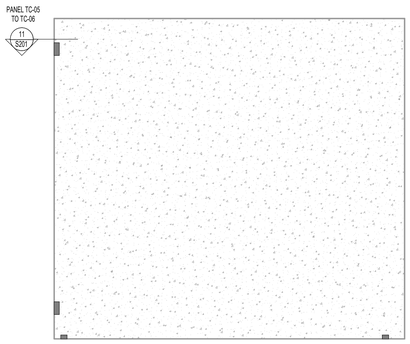


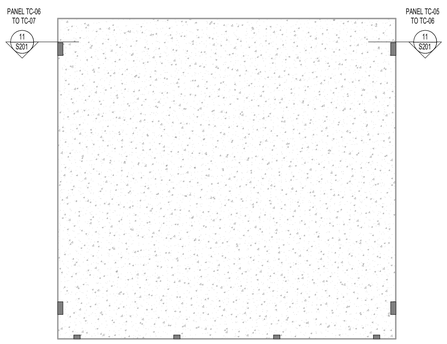
TC-01			
CONC STRENGTH	PANEL THICKNESS	VERTICAL REINFORCING	HORIZONTAL REINFORCING
4500 PSI	7.1/4"	#5 at 18" O.C..	#5 AT 18" O.C.

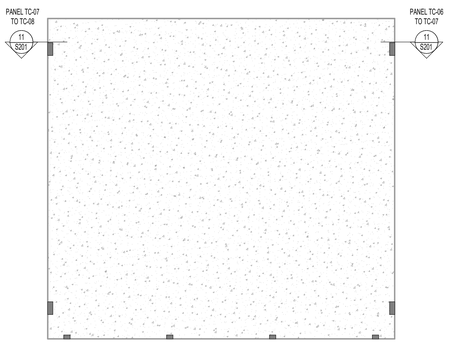
TC-02			
CONC STRENGTH	PANEL THICKNESS	VERTICAL REINFORCING	HORIZONTAL REINFORCING
4500 PSI	7.1/4"	#5 at 18" O.C..	#5 AT 18" O.C.

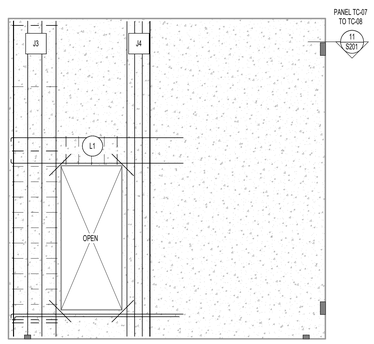
TC-03			
CONC STRENGTH	PANEL THICKNESS	VERTICAL REINFORCING	HORIZONTAL REINFORCING
4500 PSI	7.1/4"	#5 at 18" O.C..	#5 AT 18" O.C.

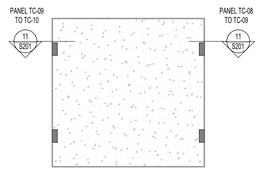
TC-04			
CONC STRENGTH	PANEL THICKNESS	VERTICAL REINFORCING	HORIZONTAL REINFORCING
4500 PSI	7.1/4"	#5 at 18" O.C..	#5 AT 18" O.C.











TC-05			
CONC STRENGTH	PANEL THICKNESS	VERTICAL REINFORCING	HORIZONTAL REINFORCING
4500 PSI	7.1/4"	#5 at 18" O.C..	#5 AT 18" O.C.

TC-06			
CONC STRENGTH	PANEL THICKNESS	VERTICAL REINFORCING	HORIZONTAL REINFORCING
4500 PSI	7.1/4"	#5 at 18" O.C..	#5 AT 18" O.C.

TC-07			
CONC STRENGTH	PANEL THICKNESS	VERTICAL REINFORCING	HORIZONTAL REINFORCING
4500 PSI	7.1/4"	#5 at 18" O.C..	#5 AT 18" O.C.

TC-08			
CONC STRENGTH	PANEL THICKNESS	VERTICAL REINFORCING	HORIZONTAL REINFORCING
4500 PSI	7.1/4"	#5 at 18" O.C..	#5 AT 18" O.C.

TC-09			
CONC STRENGTH	PANEL THICKNESS	VERTICAL REINFORCING	HORIZONTAL REINFORCING
4500 PSI	7.1/4"	#5 at 18" O.C.	#5 AT 18" O.C.

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84318

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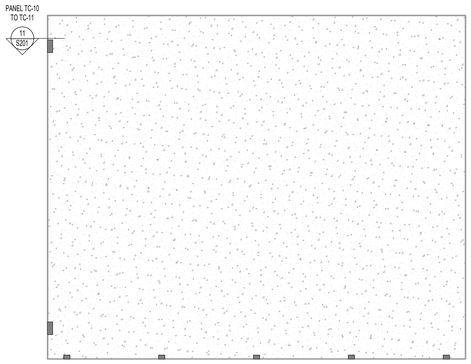
NWL PROJECT	0119.002

LICENSED PROFESSIONAL STRUCTURAL ENGINEER
TRAVIS ROSS BLACKER
8172017-2203
STATE OF UTAH
04/07/2025

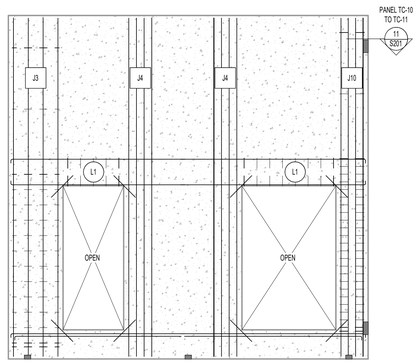
△	DATE	REVISION
2	04/07/2025	ADD #3

TILT-UP PANEL ELEVATIONS

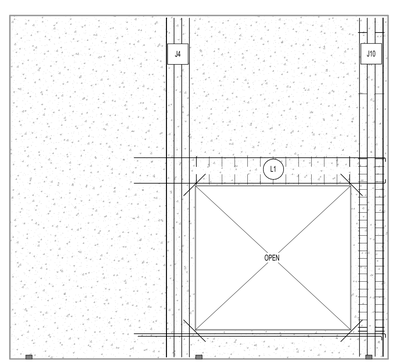
S207



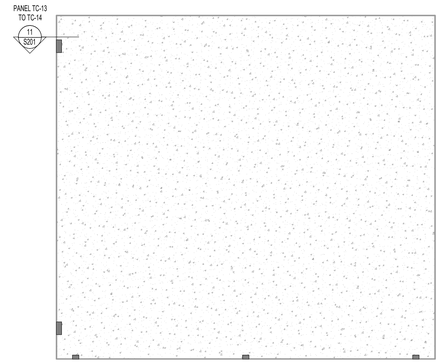
TC-10			
CONC STRENGTH	PANEL THICKNESS	VERTICAL REINFORCING	HORIZONTAL REINFORCING
4500 PSI	7.1/4"	#5 at 18" O.C..	#5 AT 18" O.C.



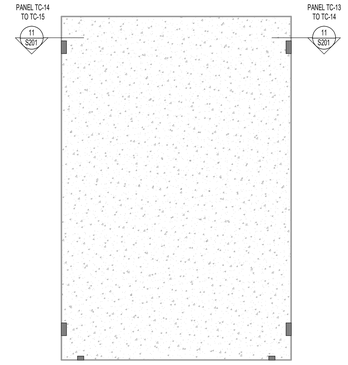
TC-11			
CONC STRENGTH	PANEL THICKNESS	VERTICAL REINFORCING	HORIZONTAL REINFORCING
4500 PSI	7.1/4"	#5 at 18" O.C..	#5 AT 18" O.C.



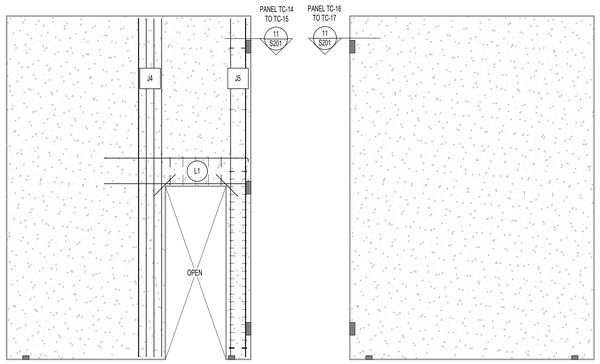
TC-12			
CONC STRENGTH	PANEL THICKNESS	VERTICAL REINFORCING	HORIZONTAL REINFORCING
4500 PSI	7.1/4"	#5 at 18" O.C..	#5 AT 18" O.C.



TC-13			
CONC STRENGTH	PANEL THICKNESS	VERTICAL REINFORCING	HORIZONTAL REINFORCING
4500 PSI	7.1/4"	#5 at 18" O.C..	#5 AT 18" O.C.

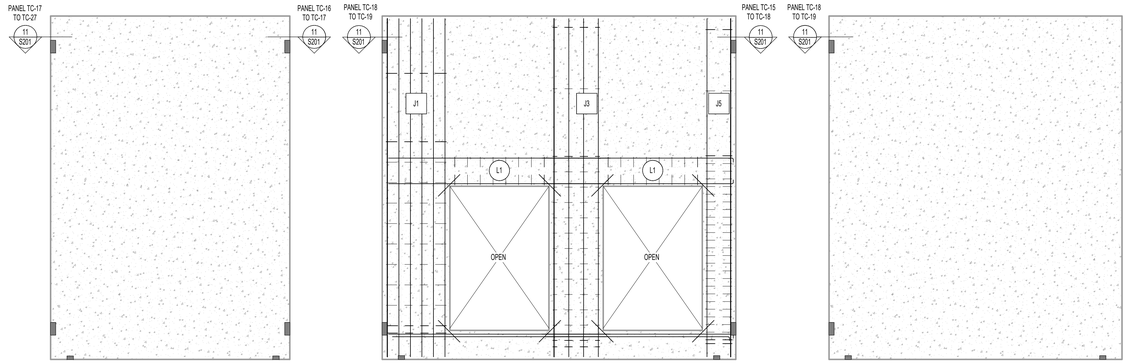


TC-14			
CONC STRENGTH	PANEL THICKNESS	VERTICAL REINFORCING	HORIZONTAL REINFORCING
4500 PSI	7.1/4"	#5 at 18" O.C..	#5 AT 18" O.C.



TC-15			
CONC STRENGTH	PANEL THICKNESS	VERTICAL REINFORCING	HORIZONTAL REINFORCING
4500 PSI	7.1/4"	#5 at 18" O.C..	#5 AT 18" O.C.

TC-16			
CONC STRENGTH	PANEL THICKNESS	VERTICAL REINFORCING	HORIZONTAL REINFORCING
4500 PSI	7.1/4"	#5 at 18" O.C..	#5 AT 18" O.C.



TC-17			
CONC STRENGTH	PANEL THICKNESS	VERTICAL REINFORCING	HORIZONTAL REINFORCING
4500 PSI	7.1/4"	#5 at 18" O.C..	#5 AT 18" O.C.

TC-18			
CONC STRENGTH	PANEL THICKNESS	VERTICAL REINFORCING	HORIZONTAL REINFORCING
4500 PSI	7.1/4"	#5 at 18" O.C..	#5 AT 18" O.C.

TC-19			
CONC STRENGTH	PANEL THICKNESS	VERTICAL REINFORCING	HORIZONTAL REINFORCING
4500 PSI	7.1/4"	#5 at 18" O.C..	#5 AT 18" O.C.

TILT-UP PANEL ELEVATION NOTES

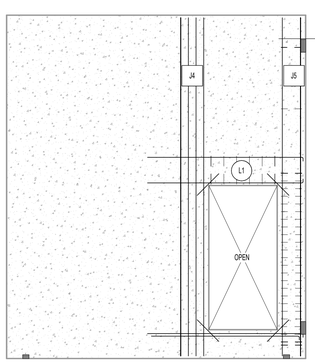
1. SEE FOOTING, FLOOR, AND ROOF FRAMING PLANS AND DETAILS FOR REQUIRED EMBEDS.
2. PANEL ELEVATIONS ARE DRAWN FROM THE INSIDE OF THE BUILDING FACING OUT.
3. SEE DETAILS 1/S201 AND 2/S201 FOR PLACEMENT OF TYPICAL PANEL REINFORCING.
4. SEE DETAIL 3/S201 FOR TYPICAL LINTEL REINFORCING PLACEMENT DIAGRAM.
5. SEE DETAIL 4/S201 FOR TYPICAL JAMB REINFORCING PLACEMENT DIAGRAM.
6. SEE DETAIL 5/S201 FOR MISCELLANEOUS OPENING AND TYPICAL OPENING OR CORNER TRIM REINFORCING.
7. SEE DETAIL 6/S201 FOR TYPICAL WALL PANEL CORNER AND T-INTERSECTION CONNECTION.
8. SEE ARCHITECTURAL DRAWINGS FOR PANEL DIMENSIONS.
9. STAGGER PANEL TO FOOTING EMBEDS ON OPPOSITE FACE OF PANEL AS NEEDED.

JAMB SCHEDULE

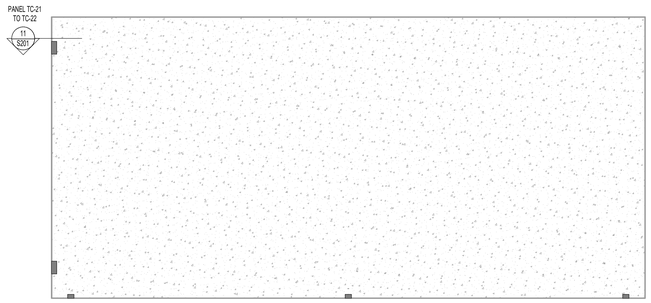
Type	REINFORCING
J1	(6) #5 E.F. EQUALLY SPACED WITH #3 TIES AT 16" O.C. FOR 12" ABOVE AND BELOW OPENINGS
J2	(6) #5 E.F. AT 6" O.C.
J3	(4) #5 E.F. EQUALLY SPACED WITH #3 TIES AT 12" O.C. FOR 12" ABOVE AND BELOW OPENINGS
J4	(4) #5 E.F. AT 6" O.C.
J5	(2) #5 E.F. EQUALLY SPACED WITH #3 TIES AT 6" O.C. FOR 12" ABOVE AND BELOW OPENINGS
J6	(6) #5 E.F. AT 6" O.C.
J7	(9) #5 E.F. EQUALLY SPACED WITH #3 TIES AT 6" O.C. FOR 12" ABOVE AND BELOW OPENINGS
J8	(2) #5 E.F. AT 6" O.C.
J9	(3) #5 E.F. EQUALLY SPACED WITH #3 TIES AT 4" O.C. FOR 12" ABOVE AND BELOW OPENINGS
J10	(4) #5 E.F. EQUALLY SPACED WITH #3 TIES AT 6" O.C. FOR 12" ABOVE AND BELOW OPENINGS
J11	(2) #5 E.F. EQUALLY SPACED WITH #3 TIES AT 4" O.C. FOR 12" ABOVE AND BELOW OPENINGS

LINTEL SCHEDULE

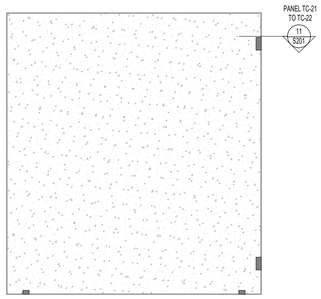
Type	REINFORCING
L1	2' - 0" LINTEL WITH (1) #7 TOP AND BOTTOM AND #3 STIRRUPS AT 10" O.C.
L2	2' - 6" LINTEL WITH (1) #7 TOP AND BOTTOM AND #3 STIRRUPS AT 1' - 0" O.C.
L3	5' - 0" LINTEL WITH (2) #7 TOP AND BOTTOM AND #3 STIRRUPS AT 1' - 0" O.C.
L4	4' - 0" LINTEL WITH (2) #7 TOP AND BOTTOM AND #3 STIRRUPS AT 1' - 0" O.C.
L5	8' - 0" LINTEL WITH (2) #7 TOP AND BOTTOM AND #3 STIRRUPS AT 1' - 0" O.C.
L6	1' - 8" LINTEL WITH (1) #7 TOP AND BOTTOM AND #3 STIRRUPS AT 10" O.C.
L7	9" LINTEL WITH (1) #7 TOP AND BOTTOM AND #3 STIRRUPS AT 1' - 0" O.C.



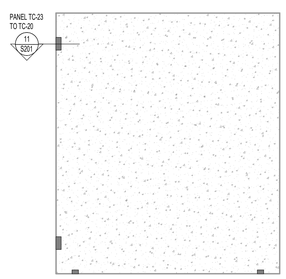
TC-20			
CONC STRENGTH	PANEL THICKNESS	VERTICAL REINFORCING	HORIZONTAL REINFORCING
4500 PSI	7.1/4"	#5 at 18" O.C..	#5 AT 18" O.C.



TC-21			
CONC STRENGTH	PANEL THICKNESS	VERTICAL REINFORCING	HORIZONTAL REINFORCING
4500 PSI	7.1/4"	#5 at 18" O.C..	#5 AT 18" O.C.



TC-22			
CONC STRENGTH	PANEL THICKNESS	VERTICAL REINFORCING	HORIZONTAL REINFORCING
4500 PSI	7.1/4"	#5 at 18" O.C..	#5 AT 18" O.C.



TC-23			
CONC STRENGTH	PANEL THICKNESS	VERTICAL REINFORCING	HORIZONTAL REINFORCING
4500 PSI	7.1/4"	#5 at 18" O.C..	#5 AT 18" O.C.

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HYDE PARK CITY, UT
84318

DRAWING ISSUE	BID SET
ISSUE DATE	03/25/2025
WWL PROJECT	0119.002

TRAVIS ROSS BRACKUS
STATE OF UTAH
04/07/2025

DATE	REVISION
2 04/07/2025	ADD #3

TILT-UP PANEL ELEVATIONS

S208

LINTEL SCHEDULE

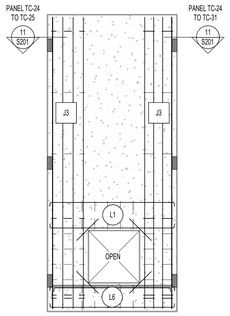
Type	REINFORCING
L1	2' - 0" LINTEL WITH (1) #7 TOP AND BOTTOM AND #3 STIRRUPS AT 10" O.C.
L2	2' - 6" LINTEL WITH (1) #7 TOP AND BOTTOM AND #3 STIRRUPS AT 1' - 0" O.C.
L3	5' - 0" LINTEL WITH (2) #7 TOP AND BOTTOM AND #3 STIRRUPS AT 1' - 0" O.C.
L4	4' - 0" LINTEL WITH (2) #7 TOP AND BOTTOM AND #3 STIRRUPS AT 1' - 0" O.C.
L5	8' - 0" LINTEL WITH (2) #7 TOP AND BOTTOM AND #3 STIRRUPS AT 1' - 0" O.C.
L6	1' - 8" LINTEL WITH (1) #7 TOP AND BOTTOM AND #3 STIRRUPS AT 10" O.C.
L7	9" LINTEL WITH (1) #7 TOP AND BOTTOM AND #3 STIRRUPS AT 1' - 0" O.C.

JAMB SCHEDULE

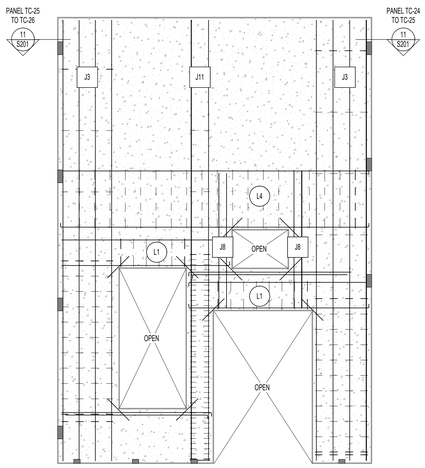
Type	REINFORCING
J1	(6) #5 E.F. EQUALLY SPACED WITH #3 TIES AT 16" O.C. FOR 12" ABOVE AND BELOW OPENINGS
J2	(6) #5 E.F. AT 6" O.C.
J3	(4) #5 E.F. EQUALLY SPACED WITH #3 TIES AT 12" O.C. FOR 12" ABOVE AND BELOW OPENINGS
J4	(4) #5 E.F. AT 6" O.C.
J5	(2) #5 E.F. EQUALLY SPACED WITH #3 TIES AT 6" O.C. FOR 12" ABOVE AND BELOW OPENINGS
J6	(6) #5 E.F. AT 6" O.C.
J7	(9) #5 E.F. EQUALLY SPACED WITH #3 TIES AT 6" O.C. FOR 12" ABOVE AND BELOW OPENINGS
J8	(2) #5 E.F. AT 6" O.C.
J9	(3) #5 E.F. EQUALLY SPACED WITH #3 TIES AT 4" O.C. FOR 12" ABOVE AND BELOW OPENINGS
J10	(4) #5 E.F. EQUALLY SPACED WITH #3 TIES AT 6" O.C. FOR 12" ABOVE AND BELOW OPENINGS
J11	(2) #5 E.F. EQUALLY SPACED WITH #3 TIES AT 4" O.C. FOR 12" ABOVE AND BELOW OPENINGS

TILT-UP PANEL ELEVATION NOTES

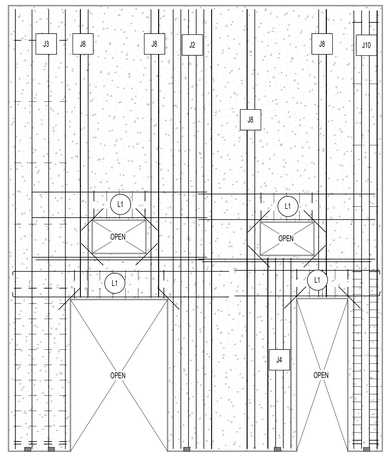
1. SEE FOOTING, FLOOR, AND ROOF FRAMING PLANS AND DETAILS FOR REQUIRED EMBEDS.
2. PANEL ELEVATIONS ARE DRAWN FROM THE INSIDE OF THE BUILDING FACING OUT.
3. SEE DETAILS 1/S301 AND 2/S201 FOR PLACEMENT OF TYPICAL PANEL REINFORCING.
4. SEE DETAIL 3/S201 FOR TYPICAL LINTEL REINFORCING PLACEMENT DIAGRAM.
5. SEE DETAIL 4/S201 FOR TYPICAL JAMB REINFORCING PLACEMENT DIAGRAM.
6. SEE DETAIL 5/S201 FOR MISCELLANEOUS OPENING AND TYPICAL OPENING OR CORNER TRIM REINFORCING.
7. SEE DETAIL 6/S201 FOR TYPICAL WALL PANEL CORNER AND T-INTERSECTION CONNECTION.
8. SEE ARCHITECTURAL DRAWINGS FOR PANEL DIMENSIONS.
9. STAGGER PANEL TO FOOTING EMBEDS ON OPPOSITE FACE OF PANEL AS NEEDED.



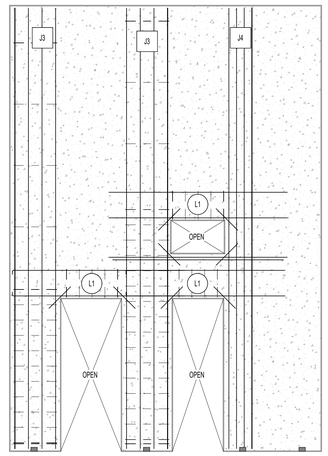
TC-24			
CONC STRENGTH	PANEL THICKNESS	VERTICAL REINFORCING	HORIZONTAL REINFORCING
4500 PSI	7.1/4"	#5 at 18" O.C..	#5 AT 18" O.C.



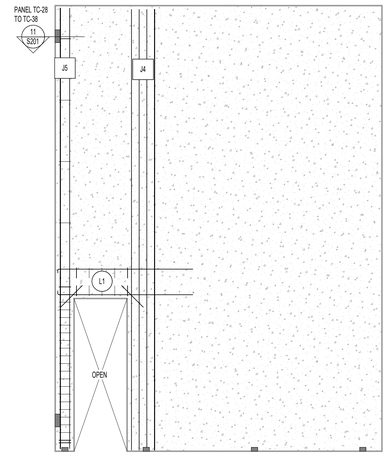
TC-25			
CONC STRENGTH	PANEL THICKNESS	VERTICAL REINFORCING	HORIZONTAL REINFORCING
4500 PSI	7.1/4"	#5 at 18" O.C..	#5 AT 18" O.C.



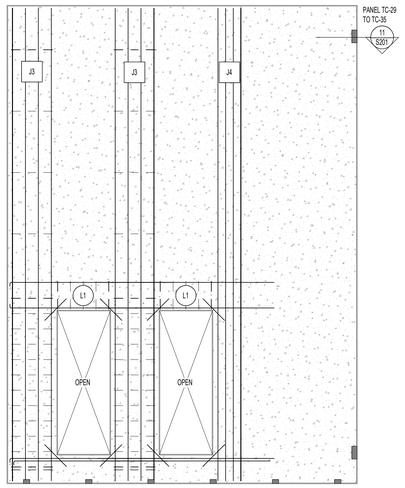
TC-26			
CONC STRENGTH	PANEL THICKNESS	VERTICAL REINFORCING	HORIZONTAL REINFORCING
4500 PSI	7.1/4"	#5 at 18" O.C..	#5 AT 18" O.C.



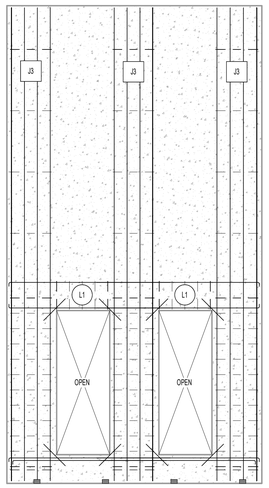
TC-27			
CONC STRENGTH	PANEL THICKNESS	VERTICAL REINFORCING	HORIZONTAL REINFORCING
4500 PSI	7.1/4"	#5 at 18" O.C..	#5 AT 18" O.C.



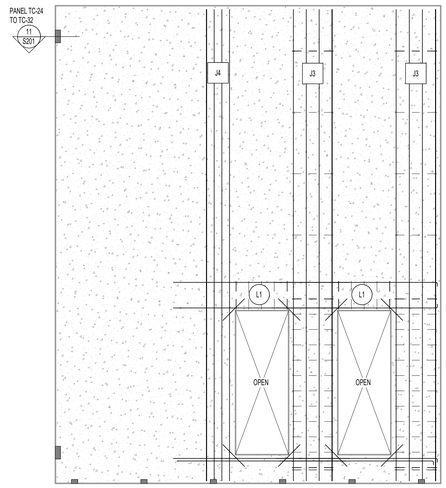
TC-28			
CONC STRENGTH	PANEL THICKNESS	VERTICAL REINFORCING	HORIZONTAL REINFORCING
4500 PSI	7.1/4"	#5 at 18" O.C..	#5 AT 18" O.C.



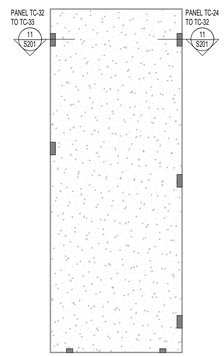
TC-29			
CONC STRENGTH	PANEL THICKNESS	VERTICAL REINFORCING	HORIZONTAL REINFORCING
4500 PSI	7.1/4"	#5 at 18" O.C..	#5 AT 18" O.C.



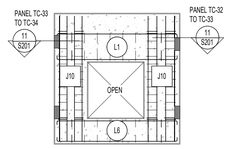
TC-30			
CONC STRENGTH	PANEL THICKNESS	VERTICAL REINFORCING	HORIZONTAL REINFORCING
4500 PSI	7.1/4"	#5 at 18" O.C..	#5 AT 18" O.C.



TC-31			
CONC STRENGTH	PANEL THICKNESS	VERTICAL REINFORCING	HORIZONTAL REINFORCING
4500 PSI	7.1/4"	#5 at 18" O.C..	#5 AT 18" O.C.



TC-32			
CONC STRENGTH	PANEL THICKNESS	VERTICAL REINFORCING	HORIZONTAL REINFORCING
4500 PSI	7.1/4"	#5 at 18" O.C..	#5 AT 18" O.C.



TC-33			
CONC STRENGTH	PANEL THICKNESS	VERTICAL REINFORCING	HORIZONTAL REINFORCING
4500 PSI	7.1/4"	#5 at 18" O.C..	#5 AT 18" O.C.

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SCHOOL DISTRICT

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HYDE PARK CITY, UT
84318

DRAWING ISSUE	BID SET
ISSUE DATE	03/25/2025
NWL PROJECT	0118.002

LICENSED PROFESSIONAL STRUCTURAL ENGINEER
TRAVIS ROSS BLACKOCK
8017017-2203
STATE OF UTAH
04/07/2025

	DATE	REVISION
1	04/01/2025	ADD #2
2	04/07/2025	ADD #3

TILT-UP PANEL ELEVATIONS

S209

LINTEL SCHEDULE

Type	REINFORCING
L1	2' - 0" LINTEL WITH (1) #7 TOP AND BOTTOM AND #3 STIRRUPS AT 10" O.C.
L2	2' - 6" LINTEL WITH (1) #7 TOP AND BOTTOM AND #3 STIRRUPS AT 1' - 0" O.C.
L3	5' - 0" LINTEL WITH (2) #7 TOP AND BOTTOM AND #3 STIRRUPS AT 1' - 0" O.C.
L4	4' - 0" LINTEL WITH (2) #7 TOP AND BOTTOM AND #3 STIRRUPS AT 1' - 0" O.C.
L5	8' - 0" LINTEL WITH (2) #7 TOP AND BOTTOM AND #3 STIRRUPS AT 1' - 0" O.C.
L6	1' - 8" LINTEL WITH (1) #7 TOP AND BOTTOM AND #3 STIRRUPS AT 10" O.C.
L7	9" LINTEL WITH (1) #7 TOP AND BOTTOM AND #3 STIRRUPS AT 1' - 0" O.C.

JAMB SCHEDULE

Type	REINFORCING
J1	(6) #5 E.F. EQUALLY SPACED WITH #3 TIES AT 16" O.C. FOR 12" ABOVE AND BELOW OPENINGS
J2	(6) #5 E.F. AT 6" O.C.
J3	(4) #5 E.F. EQUALLY SPACED WITH #3 TIES AT 12" O.C. FOR 12" ABOVE AND BELOW OPENINGS
J4	(4) #5 E.F. AT 6" O.C.
J5	(2) #5 E.F. EQUALLY SPACED WITH #3 TIES AT 6" O.C. FOR 12" ABOVE AND BELOW OPENINGS
J6	(6) #5 E.F. AT 6" O.C.
J7	(9) #5 E.F. EQUALLY SPACED WITH #3 TIES AT 6" O.C. FOR 12" ABOVE AND BELOW OPENINGS
J8	(2) #5 E.F. AT 6" O.C.
J9	(3) #5 E.F. EQUALLY SPACED WITH #3 TIES AT 4" O.C. FOR 12" ABOVE AND BELOW OPENINGS
J10	(4) #5 E.F. EQUALLY SPACED WITH #3 TIES AT 6" O.C. FOR 12" ABOVE AND BELOW OPENINGS
J11	(2) #5 E.F. EQUALLY SPACED WITH #3 TIES AT 4" O.C. FOR 12" ABOVE AND BELOW OPENINGS

TILT-UP PANEL ELEVATION NOTES

1. SEE FOOTING, FLOOR, AND ROOF FRAMING PLANS AND DETAILS FOR REQUIRED EMBEDS.
2. PANEL ELEVATIONS ARE DRAWN FROM THE INSIDE OF THE BUILDING FACING OUT.
3. SEE DETAILS 1/S301 AND 2/S301 FOR PLACEMENT OF TYPICAL PANEL REINFORCING.
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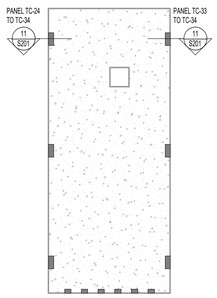
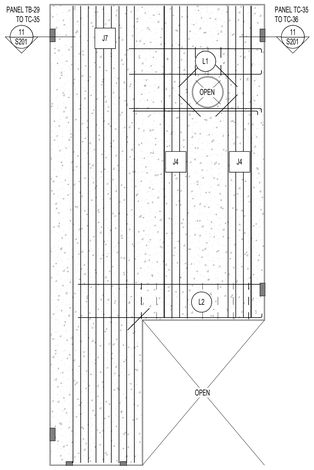
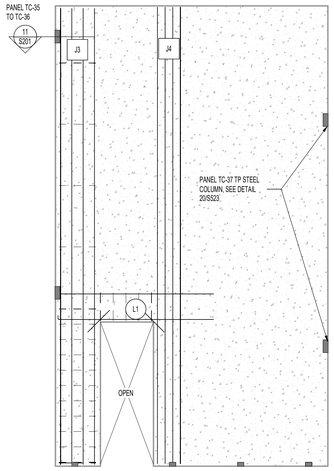
6. SEE DETAIL 5/S201 FOR MISCELLANEOUS OPENING AND TYPICAL OPENING OR CORNER TRIM REINFORCING.
7. SEE DETAIL 6/S201 FOR TYPICAL WALL PANEL CORNER AND T-INTERSECTION CONNECTION.
8. SEE ARCHITECTURAL DRAWINGS FOR PANEL DIMENSIONS.
9. STAGGER PANEL TO FOOTING EMBEDS ON OPPOSITE FACE OF PANEL AS NEEDED.



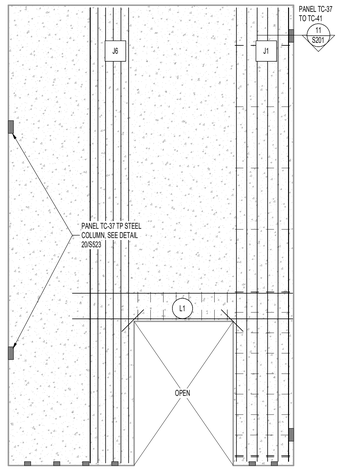
TC-34			
CONC STRENGTH	PANEL THICKNESS	VERTICAL REINFORCING	HORIZONTAL REINFORCING
4500 PSI	7.1/4"	#5 at 18" O.C..	#5 AT 18" O.C.



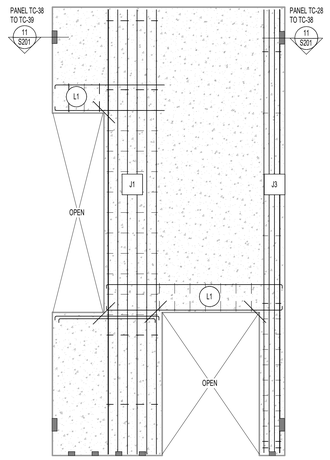
TC-35			
CONC STRENGTH	PANEL THICKNESS	VERTICAL REINFORCING	HORIZONTAL REINFORCING
4500 PSI	8.1/2"	#5 at 14" O.C., E.F	#5 AT 18" O.C., E.F.



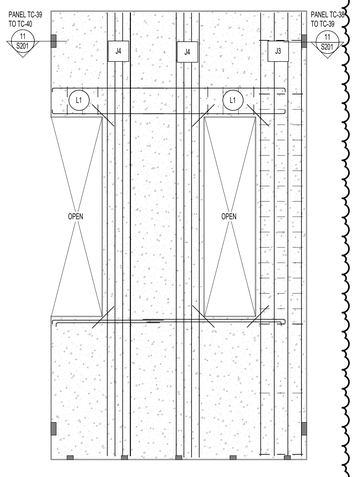
TC-36			
CONC STRENGTH	PANEL THICKNESS	VERTICAL REINFORCING	HORIZONTAL REINFORCING
4500 PSI	8.1/2"	#5 at 14" O.C., E.F	#5 AT 18" O.C., E.F.



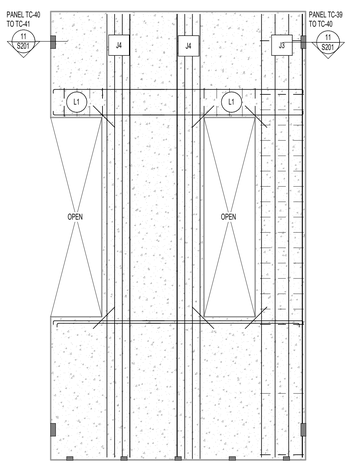
TC-37			
CONC STRENGTH	PANEL THICKNESS	VERTICAL REINFORCING	HORIZONTAL REINFORCING
4500 PSI	8.1/2"	#5 at 16" O.C., E.F	#5 AT 18" O.C., E.F.



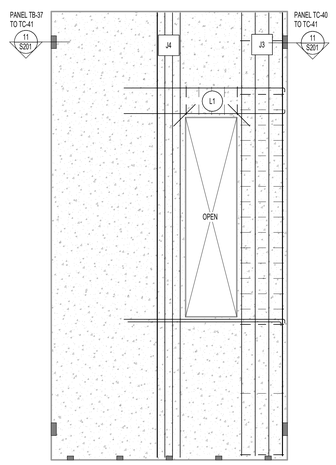
TC-38			
CONC STRENGTH	PANEL THICKNESS	VERTICAL REINFORCING	HORIZONTAL REINFORCING
4500 PSI	9"+3" INSULATION+3" VENEER	#5 AT 16" O.C., E.F	#5 AT 18" O.C., E.F.



TC-39			
CONC STRENGTH	PANEL THICKNESS	VERTICAL REINFORCING	HORIZONTAL REINFORCING
4500 PSI	9"+3" INSULATION+3" VENEER	#5 at 16" O.C., E.F	#5 AT 18" O.C., E.F.



TC-40			
CONC STRENGTH	PANEL THICKNESS	VERTICAL REINFORCING	HORIZONTAL REINFORCING
4500 PSI	9"+3" INSULATION+3" VENEER	#5 at 16" O.C., E.F	#5 AT 18" O.C., E.F.



TC-41			
CONC STRENGTH	PANEL THICKNESS	VERTICAL REINFORCING	HORIZONTAL REINFORCING
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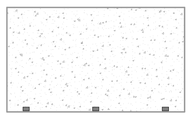
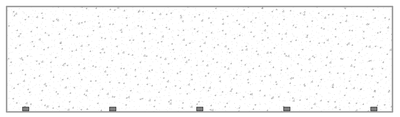


DM-1			
CONC STRENGTH	PANEL THICKNESS	VERTICAL REINFORCING	HORIZONTAL REINFORCING
4500 PSI	7.1/4"	#4 AT 12" O.C., E.W.	#4 AT 12" O.C., E.W.



DM-2			
CONC STRENGTH	PANEL THICKNESS	VERTICAL REINFORCING	HORIZONTAL REINFORCING
4500 PSI	7.1/4"	#4 AT 12" O.C., E.W.	#4 AT 12" O.C., E.W.

DM-3			
CONC STRENGTH	PANEL THICKNESS	VERTICAL REINFORCING	HORIZONTAL REINFORCING
4500 PSI	7.1/4"	#4 AT 12" O.C., E.W.	#4 AT 12" O.C., E.W.

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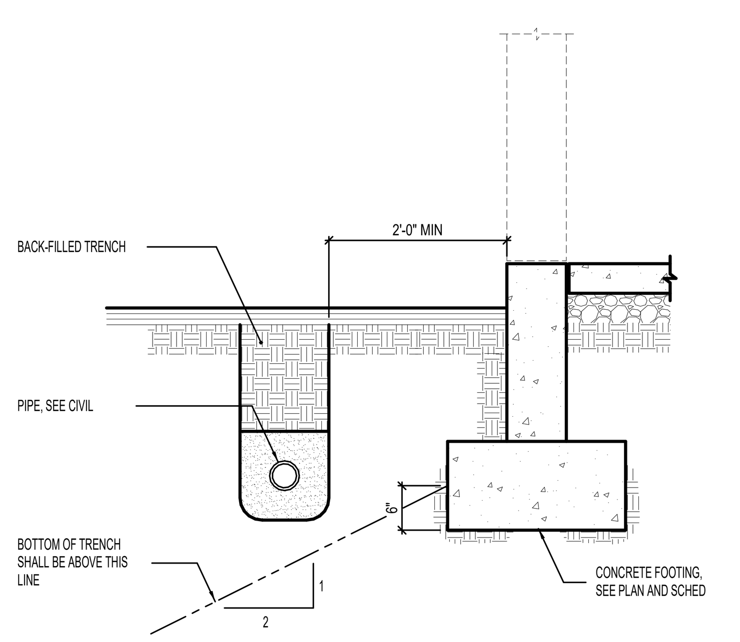
DRAWING ISSUE	BID SET
ISSUE DATE	02/25/2025
NWL PROJECT	0119.002

PROFESSIONAL STRUCTURAL ENGINEER
TRAVIS ROSS BRACKUS
8877017-2203
STATE OF UTAH
04/07/2025

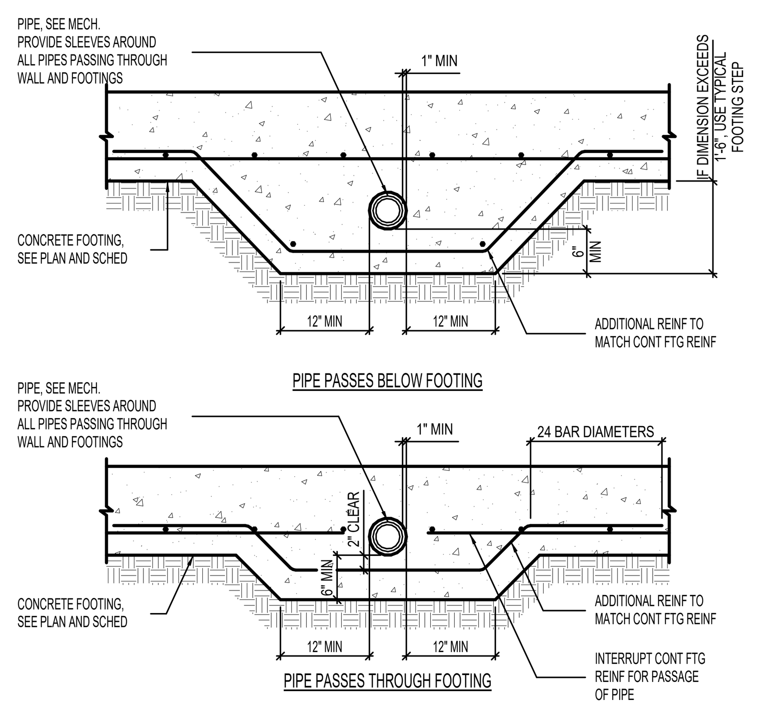
	DATE	REVISION
1	04/01/2025	ADD #2
2	04/07/2025	ADD #3

TILT-UP PANEL ELEVATIONS

S210



1 CONDITION AT PIPE PARALLEL TO CONCRETE FOOTING
NO SCALE



2 CONDITIONS AT PIPE PERPENDICULAR TO FOOTING
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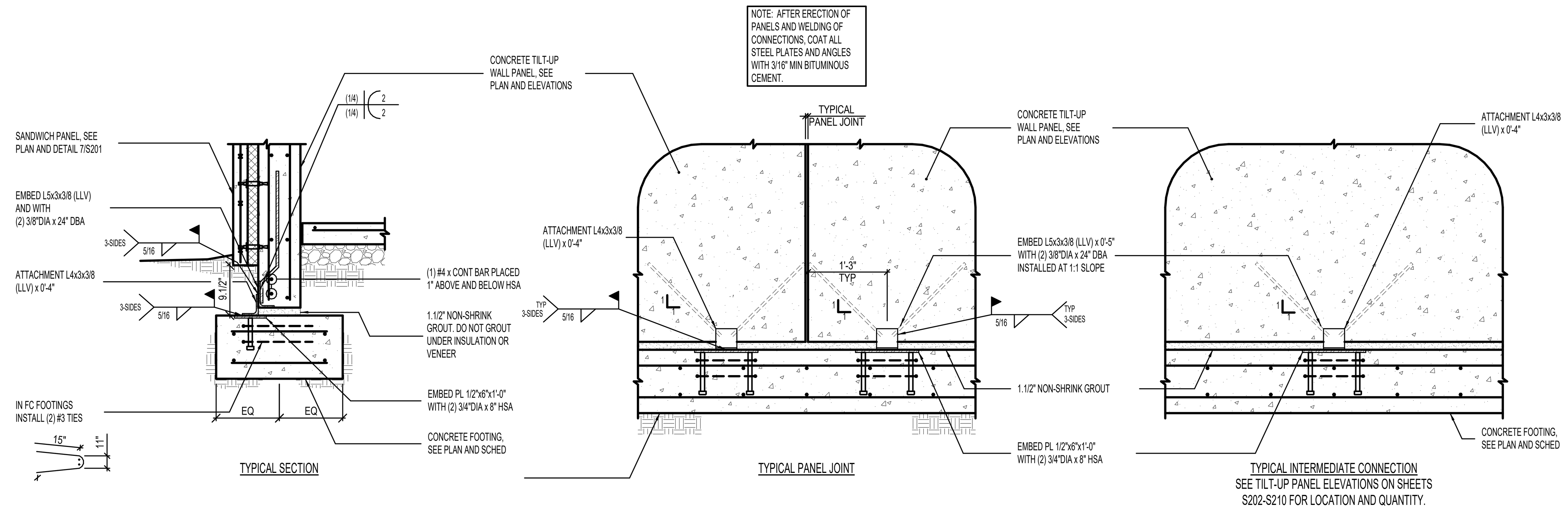

3 TYPICAL CONCRETE TILT-UP WALL PANEL CONNECTION TO FOOTING
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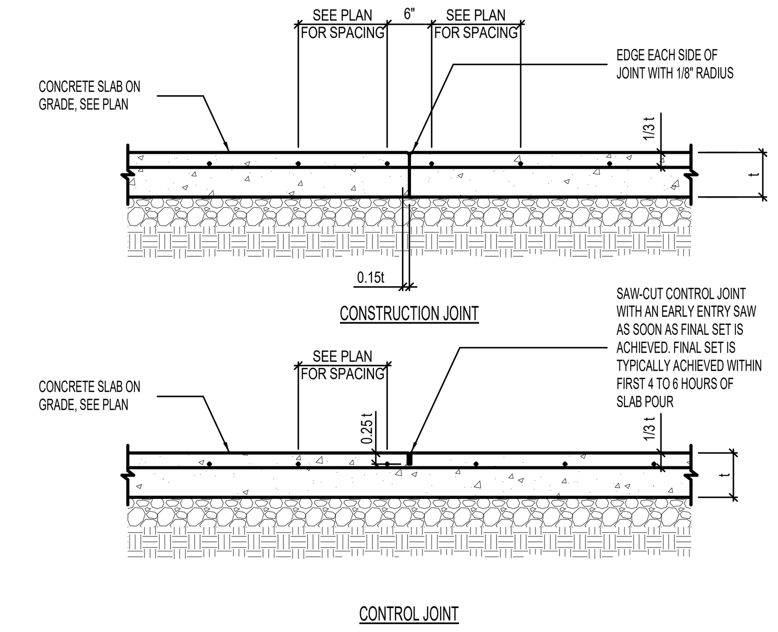
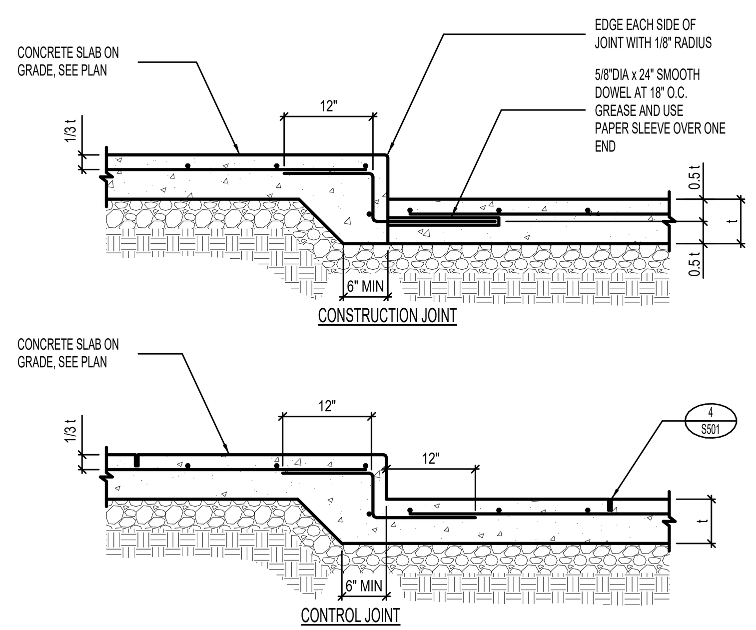
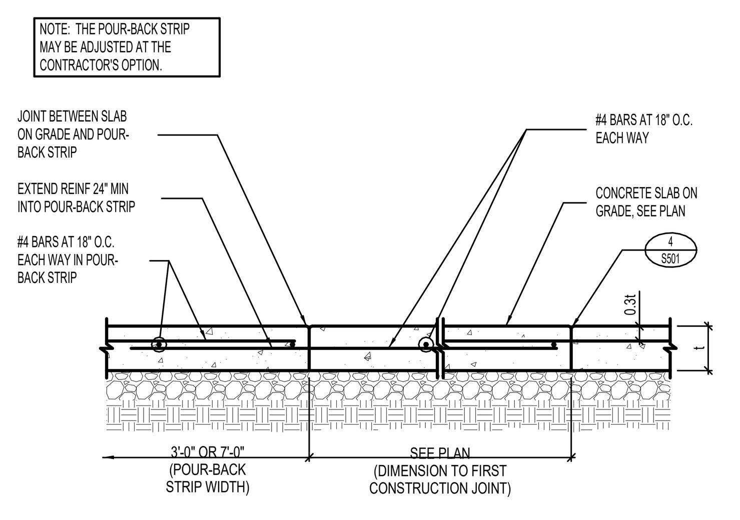


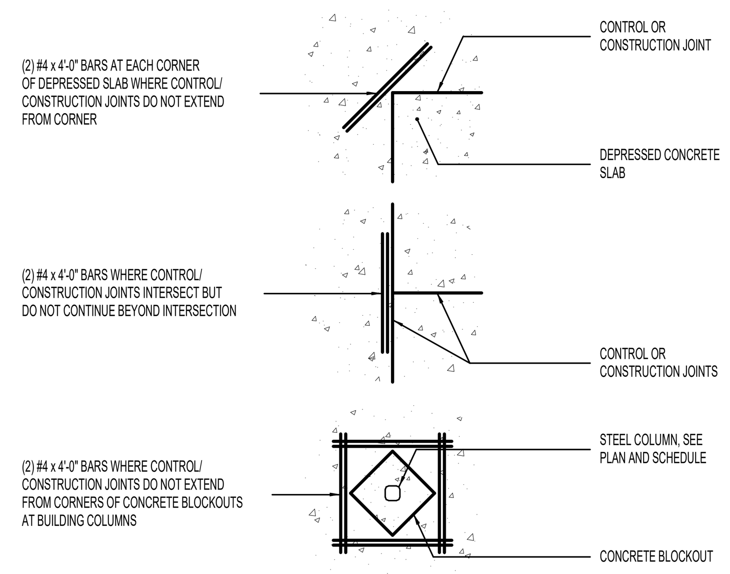
4 TYPICAL SLAB ON GRADE JOINT DETAILS
NO SCALE



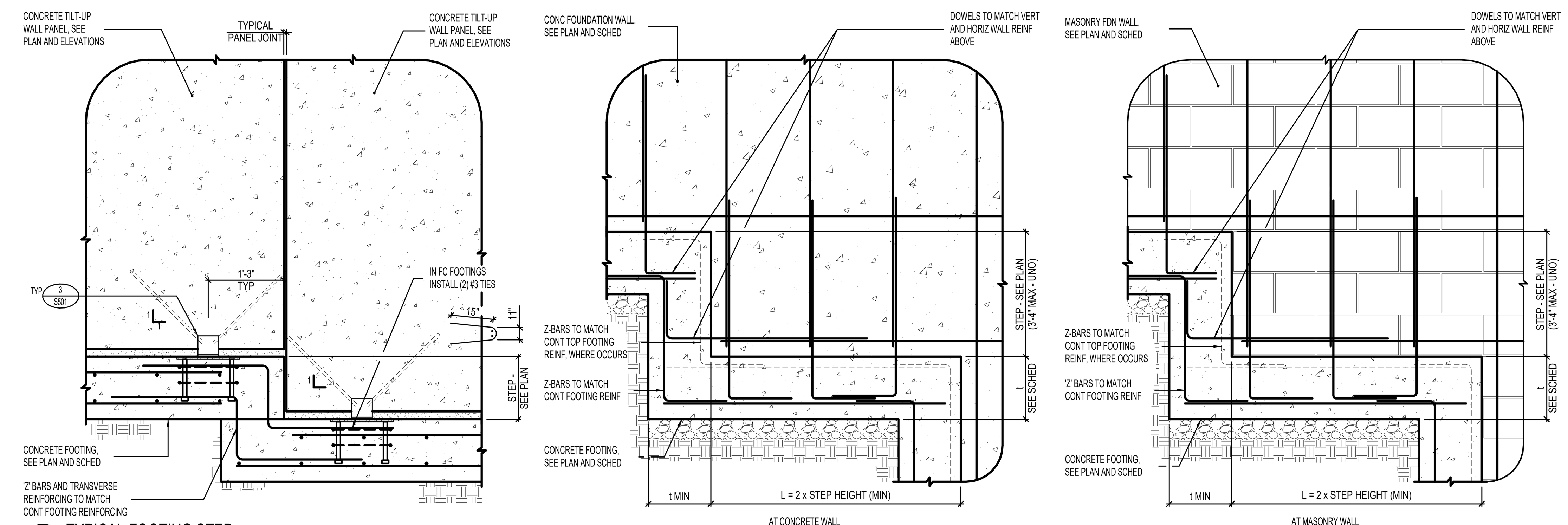
5 JOINT DETAILS AT SLAB DEPRESSIONS
NO SCALE



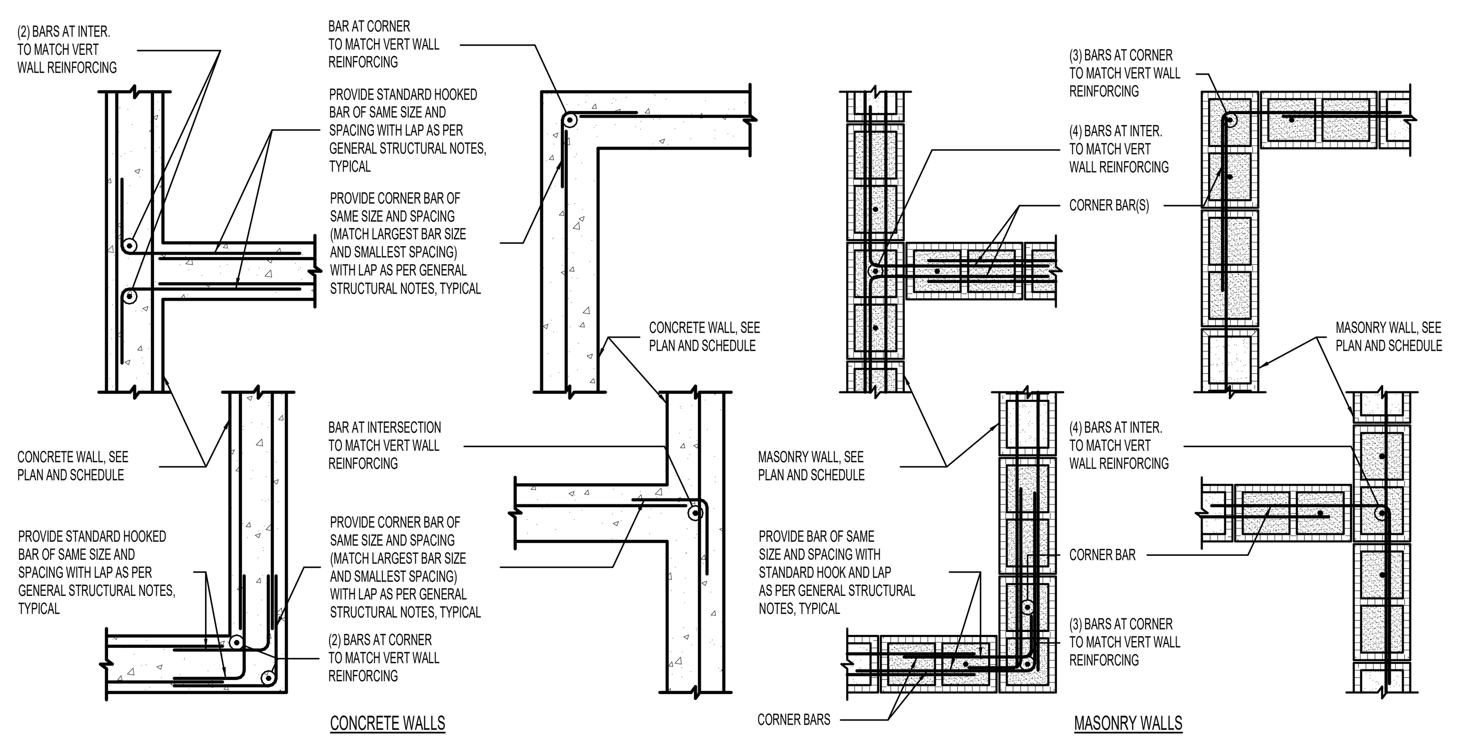
6 TYPICAL CONCRETE SLAB ON GRADE AT POUR-BACK STRIP
NO SCALE



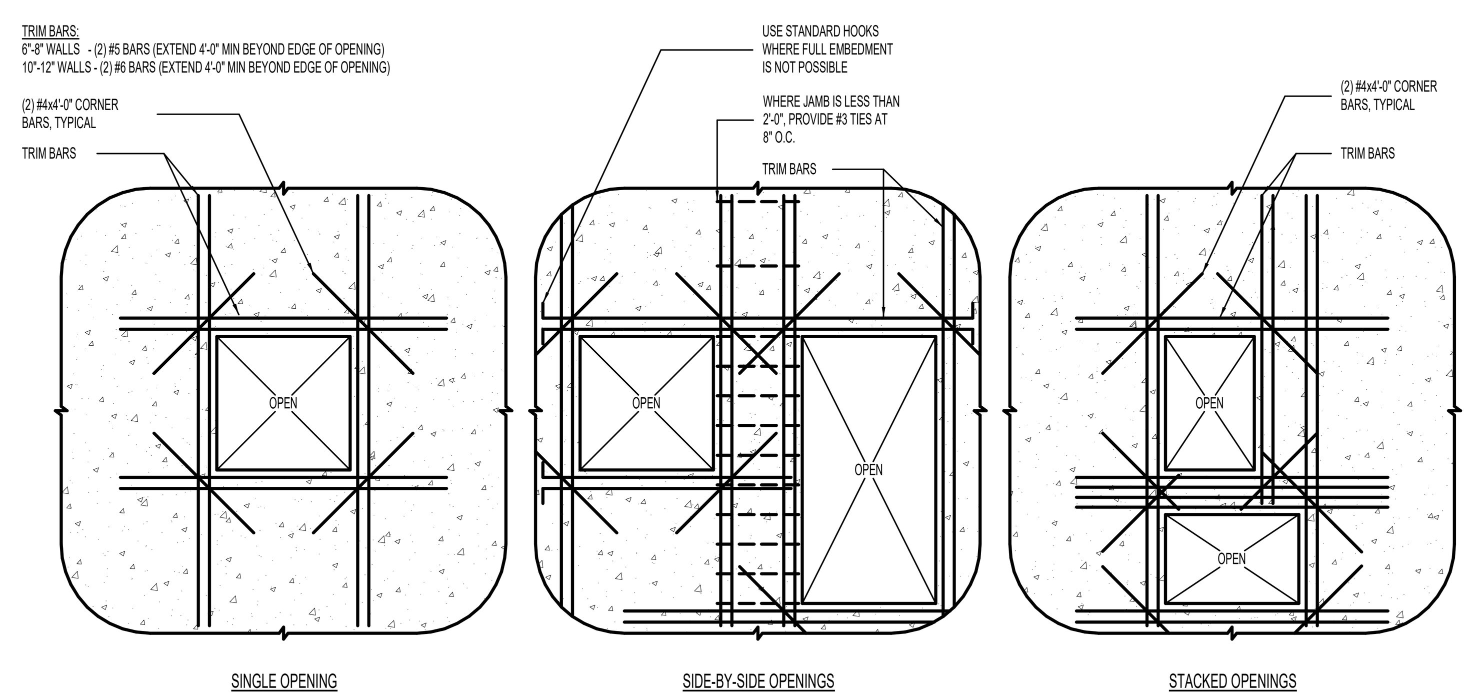
7 LOCATIONS REQUIRING ADDITIONAL SLAB REINFORCING [PLAN VIEW]
NO SCALE



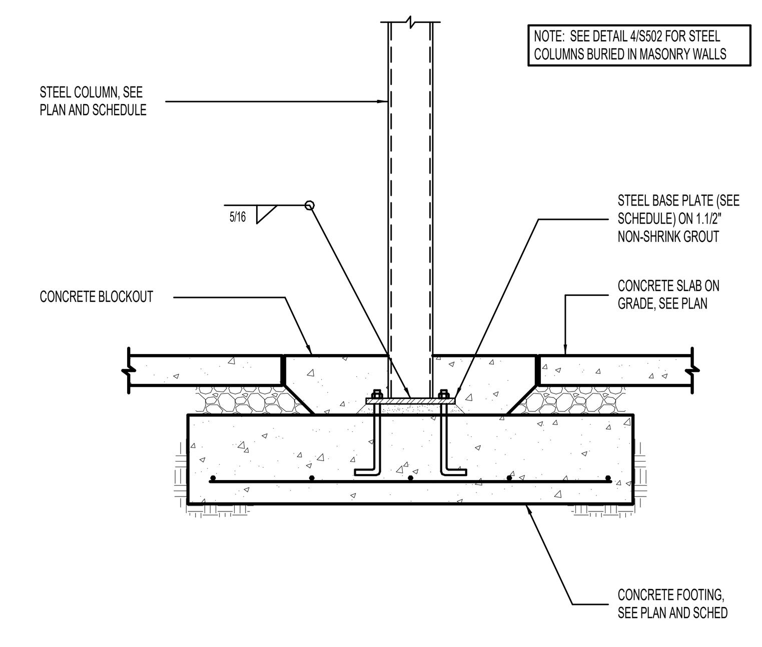
8 TYPICAL FOOTING STEP
NO SCALE



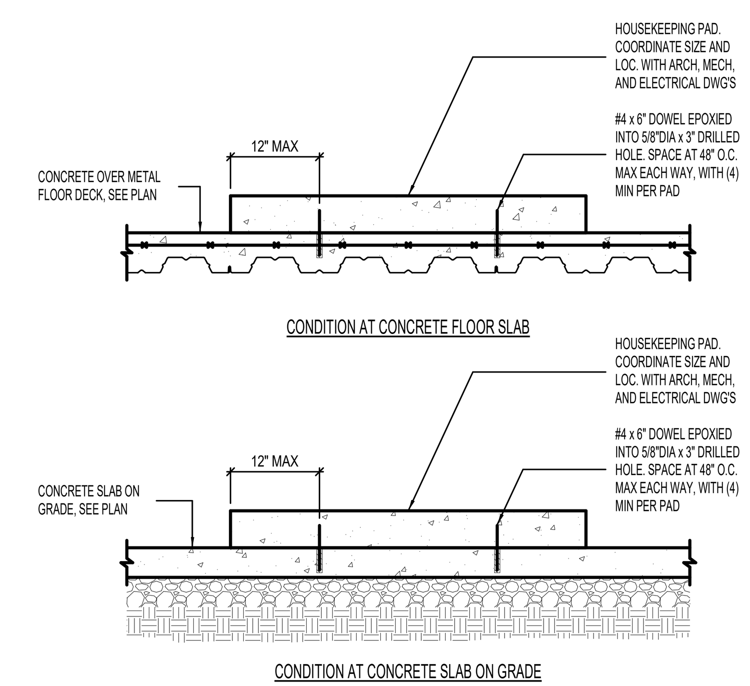
9 TYPICAL CORNER WALL REINFORCING [PLAN VIEW]
NO SCALE



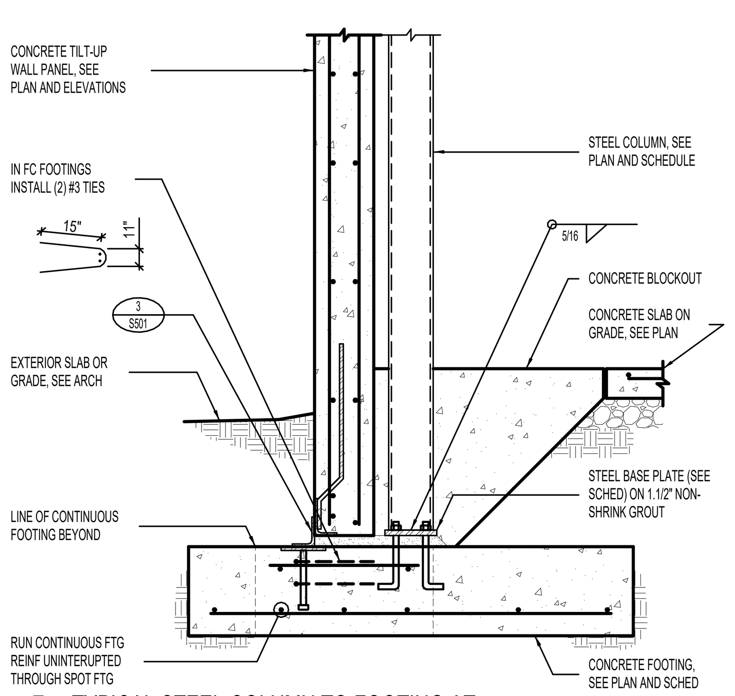
10 TYPICAL REINFORCING FOR MISCELLANEOUS OPENINGS LESS THAN 3'-0" IN CONCRETE WALLS
WHERE MISCELLANEOUS OPENING WIDTH IS GREATER THAN 3'-0" WIDE, CONTACT STRUCTURAL ENGINEER.
NO SCALE



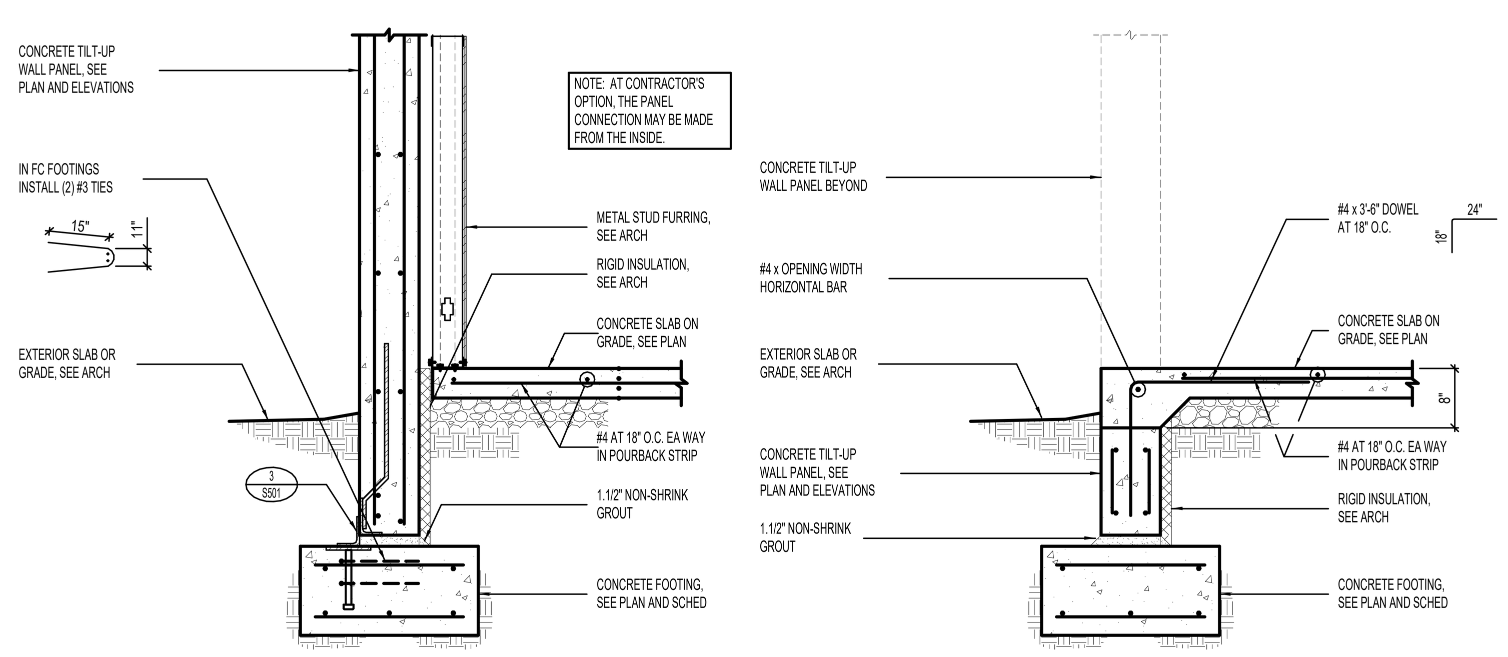
11 TYPICAL INTERIOR STEEL COLUMN TO FOOTING DETAIL
NO SCALE



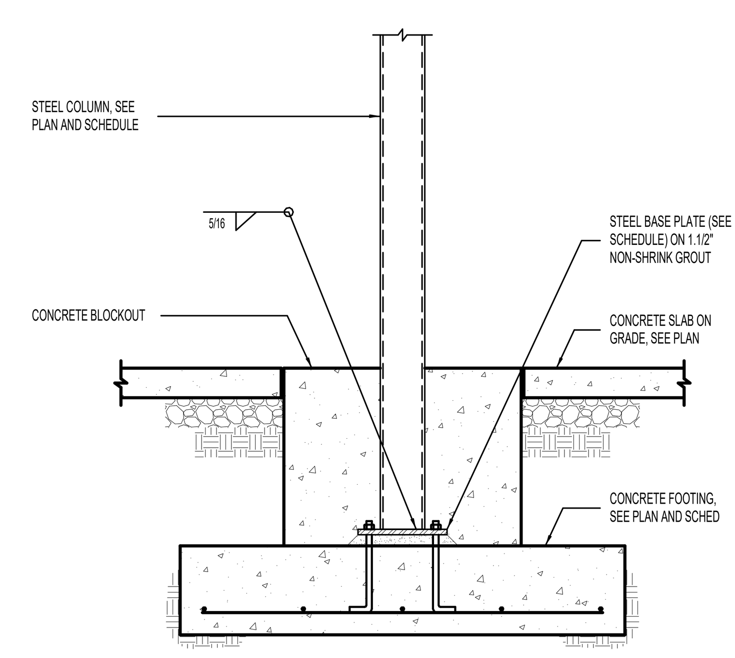
12 HOUSEKEEPING PAD DETAIL
NO SCALE



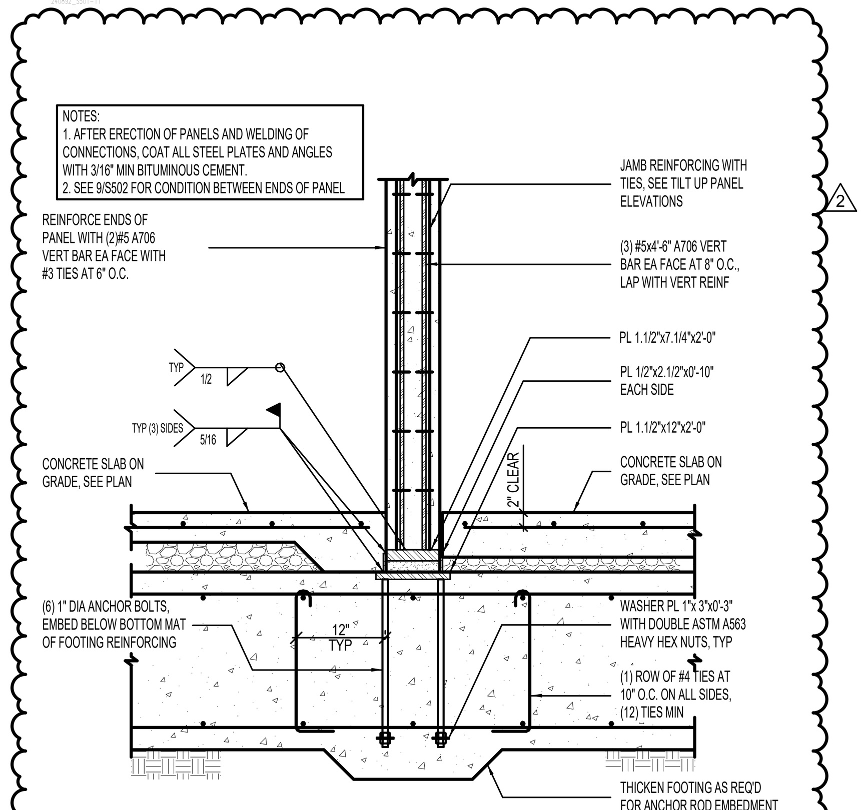
13 TYPICAL STEEL COLUMN TO FOOTING AT CONCRETE TILT-UP WALL PANEL
NO SCALE



14 TYPICAL EXTERIOR CONCRETE TILT-UP WALL PANEL CONNECTION TO FOOTING
NO SCALE



15 STEEL COLUMN BEARING AT CONCRETE FOOTING
NO SCALE



16 PANEL END ATTACHMENT DETAIL TO FOOTING
NO SCALE

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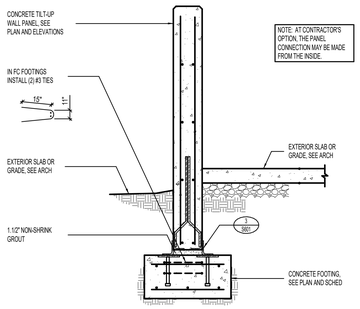
DRAWING ISSUE	BID SET
ISSUE DATE	03/25/2025
NWL PROJECT	0119.002

LICENSED PROFESSIONAL STRUCTURAL ENGINEER
TRAVIS ROSS BRACKUS
8672017-2203
STATE OF UTAH
04/07/2025

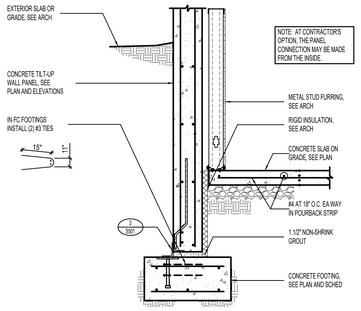
	DATE	REVISION
1	04/01/2025	ADD #2
2	04/07/2025	ADD #3

DETAILS

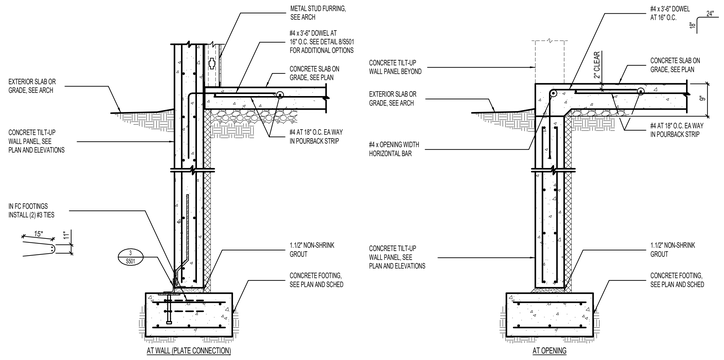
S501



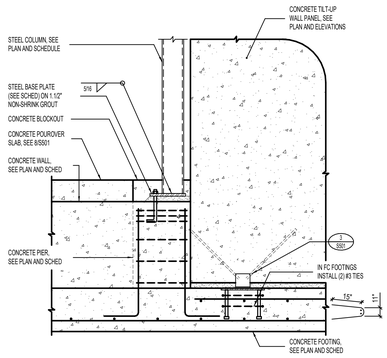
1 TYPICAL EXTERIOR CONCRETE TILT-UP WALL PANEL CONNECTION TO FOOTING AT ENCLOSURE — NO SCALE



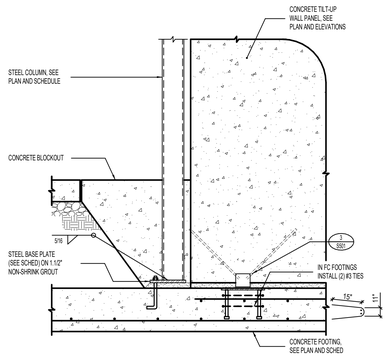
2 TYPICAL EXTERIOR CONCRETE TILT-UP WALL PANEL CONNECTION TO FOOTING — NO SCALE



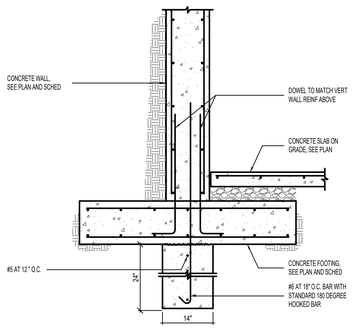
3 EXTERIOR CONCRETE TILT-UP WALL PANEL CONNECTION TO FOOTING — NO SCALE



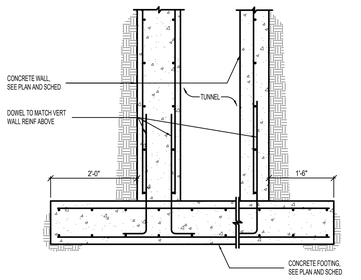
4 STEEL COLUMN BEARING AT CONCRETE PIER AT TILT PANEL WALL — NO SCALE



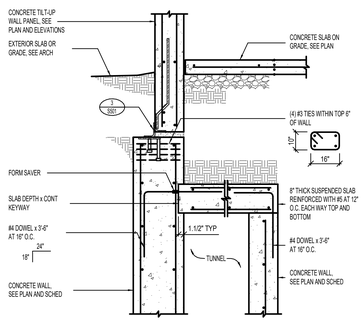
5 STEEL COLUMN BEARING AT CONCRETE FOOTING AT TILT PANEL WALL — NO SCALE



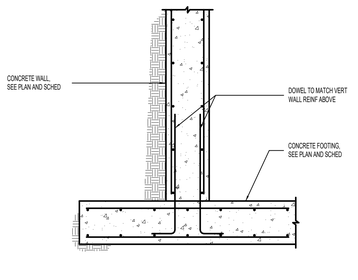
6 TYPICAL CONCRETE WALL ON CONCRETE FOOTING — NO SCALE



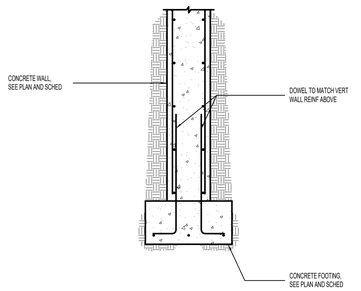
7 TYPICAL CONCRETE WALL ON CONCRETE FOOTING AT UTILITY TUNNEL — NO SCALE



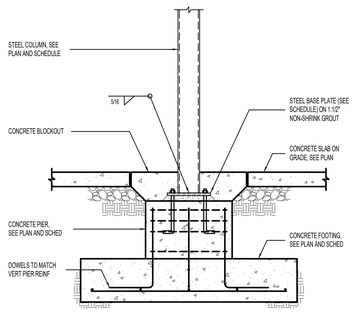
8 CONCRETE TILT PANEL CONNECTION TO WALL DETAIL AT TUNNEL — NO SCALE



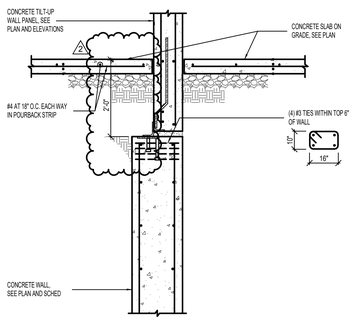
9 TYPICAL CONCRETE WALL ON CONCRETE FOOTING AT UTILITY TUNNEL — NO SCALE



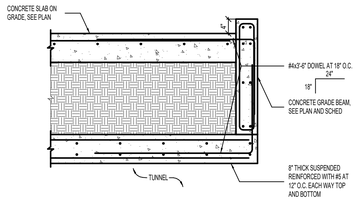
10 TYPICAL CONCRETE WALL ON CONCRETE FOOTING — NO SCALE



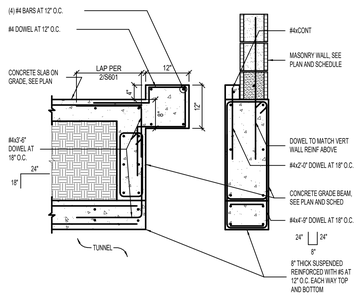
11 STEEL COLUMN BEARING AT CONCRETE PIER — NO SCALE



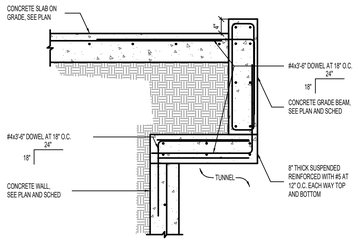
12 CONCRETE TILT PANEL CONNECTION TO WALL DETAIL — NO SCALE



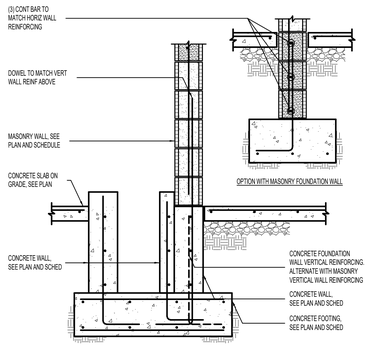
13 TUNNEL OPENING DETAIL — NO SCALE



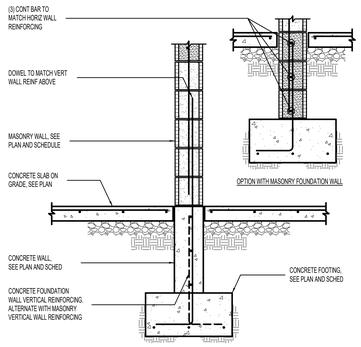
14 TUNNEL OPENING DETAIL — NO SCALE



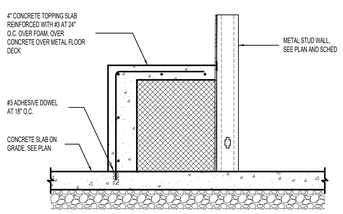
15 TUNNEL OPENING DETAIL — NO SCALE



16 FOUNDATION WALL DETAIL AT MASONRY WALL AT UTILITY TRENCH — NO SCALE



17 FOUNDATION WALL DETAIL AT MASONRY WALL — NO SCALE



18 CONCRETE BENCH DETAIL AT DISPLAY CASE — NO SCALE

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1	04/01/2025	ADD #2
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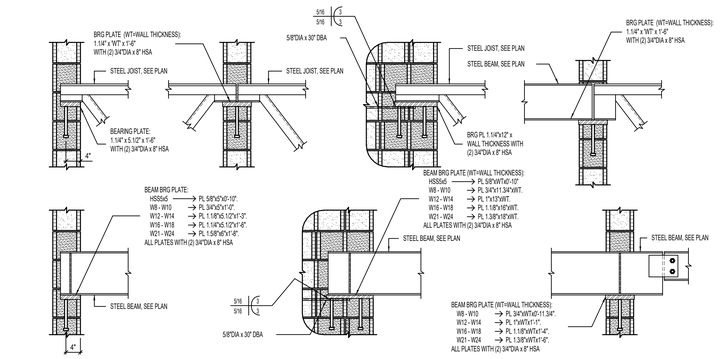
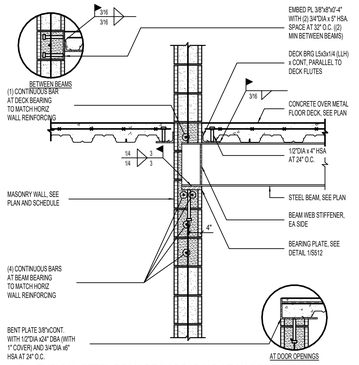
DETAILS

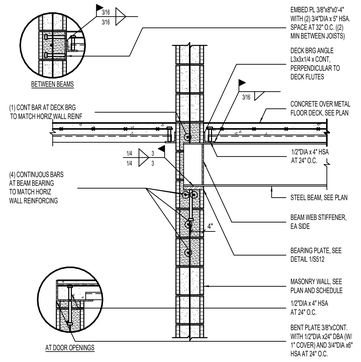
S503



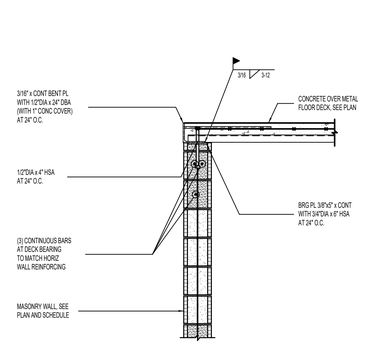
1 BEARING PLATE SCHEDULE FOR FLOOR JOIST/BEAM BEARING AT MASONRY WALLS — NO SCALE



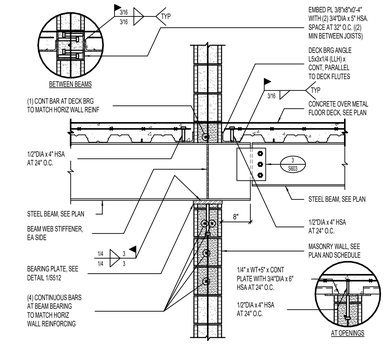
2 TYPICAL STEEL BEAM/DECK BEARING AT MASONRY WALL — NO SCALE



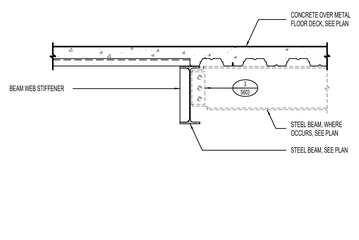
3 TYPICAL STEEL BEAM/DECK BEARING AT MASONRY WALL — NO SCALE



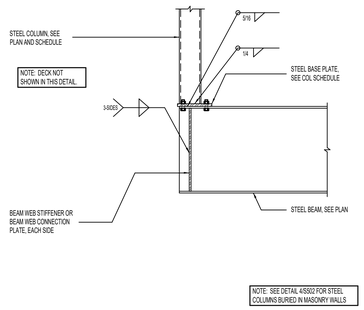
4 TYPICAL DECK BEARING AT MASONRY WALL — NO SCALE



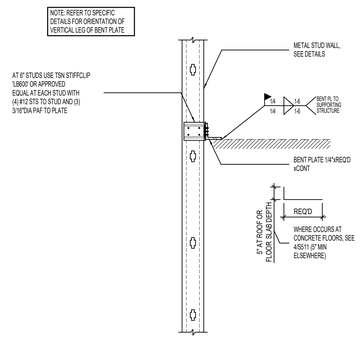
5 TYPICAL BEAM DROP-IN BEAM CONNECTION AT INTERIOR MASONRY WALL — NO SCALE



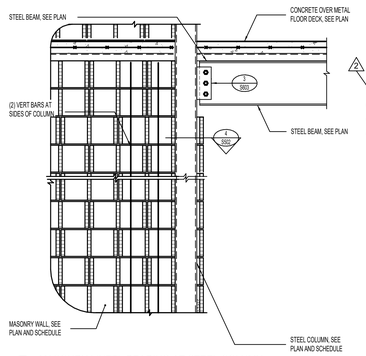
6 STEEL BEAM CONNECTION DETAIL — NO SCALE



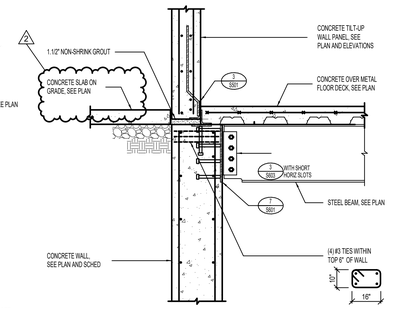
7 STEEL COLUMN CARRYING STEEL BEAM BELOW — NO SCALE



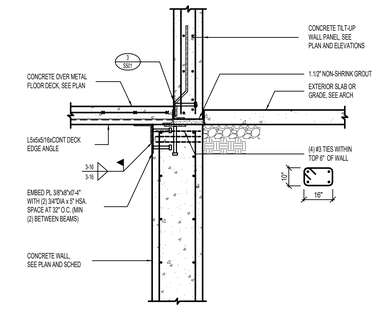
8 TYPICAL METAL STUD FRAMING TO DECK BEARING ANGLE ATTACHMENT [STIFF CONNECTION] — NO SCALE



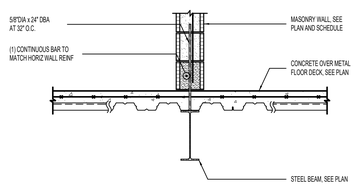
9 MASONRY LINTEL BEARING AT STEEL COLUMN — NO SCALE



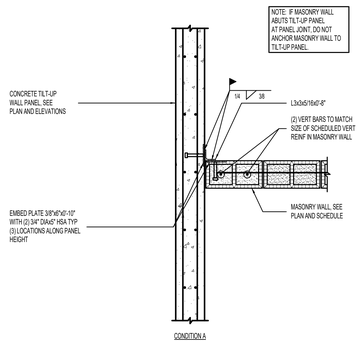
10 CONCRETE TILT PANEL CONNECTION TO WALL DETAIL — NO SCALE



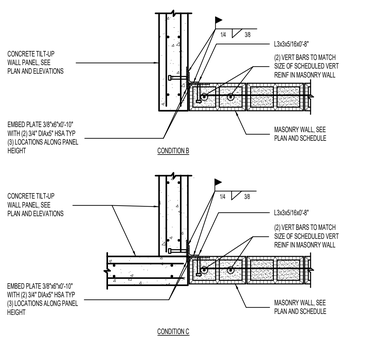
11 CONCRETE TILT PANEL CONNECTION TO WALL DETAIL — NO SCALE



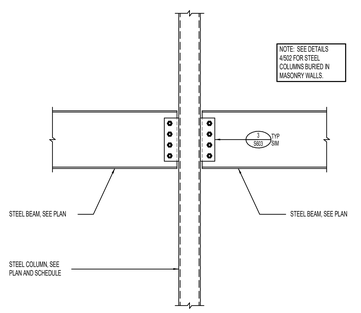
12 TYPICAL STEEL BEAM WITH MASONRY WALL ABOVE — NO SCALE



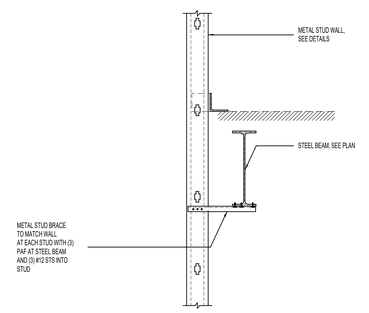
13 MASONRY WALL TO CONCRETE TILT-UP WALL PANEL [PLAN VIEW] — NO SCALE



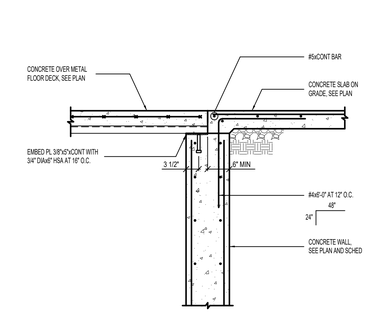
NO SCALE



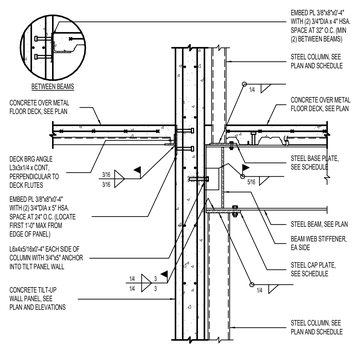
14 BEAM TO COLUMN CONNECTION — NO SCALE



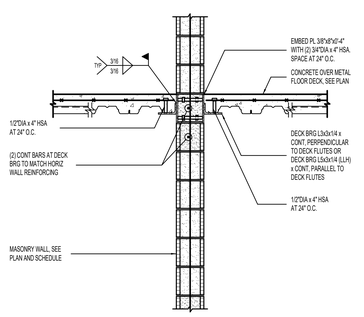
15 TYPICAL METAL STUD FRAMING TO DECK BEARING ANGLE ATTACHMENT — NO SCALE



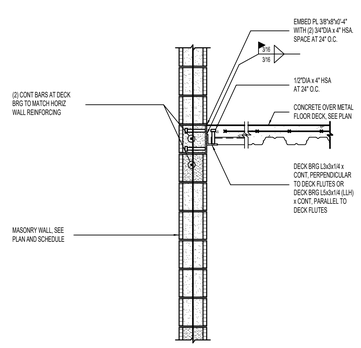
16 FOUNDATION WALL DETAIL — NO SCALE



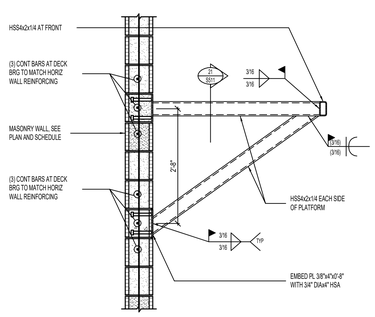
17 STEEL BEAM/COLUMN BEARING ON STEEL COLUMN AT CONCRETE TILT-UP WALL PANEL — NO SCALE



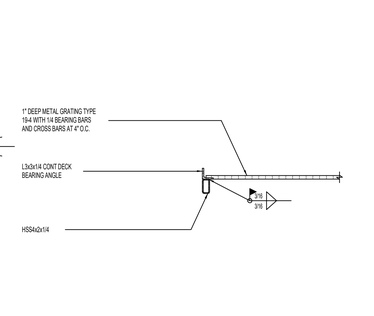
18 TYPICAL DECK BEARING AT INTERIOR MASONRY WALL — NO SCALE



19 TYPICAL DECK BEARING AT MASONRY WALL — NO SCALE



20 TYPICAL PLATFORM DETAIL — NO SCALE



21 LADDER PLATFORM DETAIL — NO SCALE

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architects

Client

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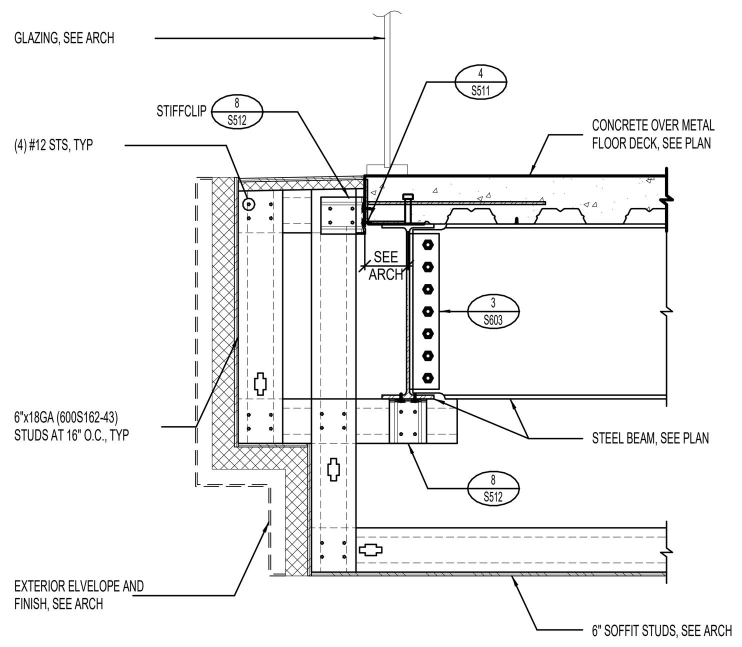
84318

DRAWING ISSUE	BID SET
ISSUE DATE	03/25/2025
WWL PROJECT	01/19.002

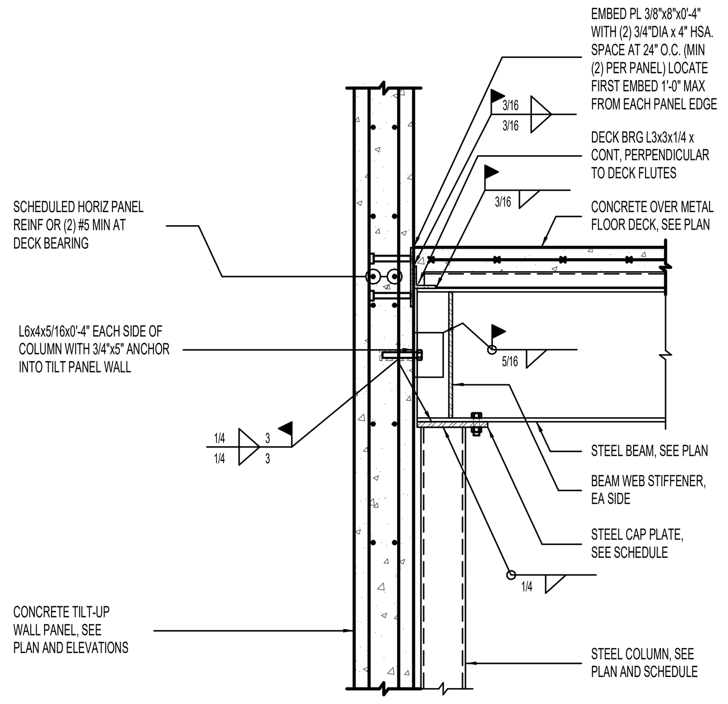
	DATE	REVISION
1	04/01/2025	ADD #2
2	04/07/2025	ADD #3

DETAILS

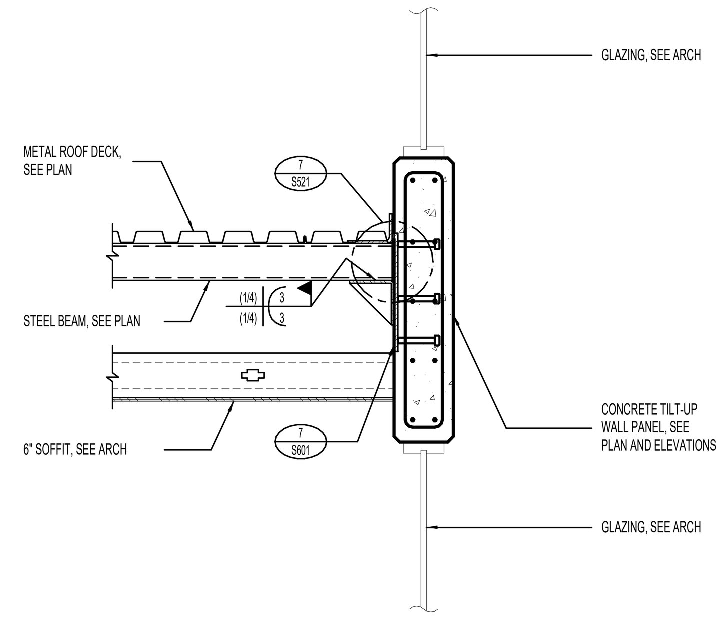
S512



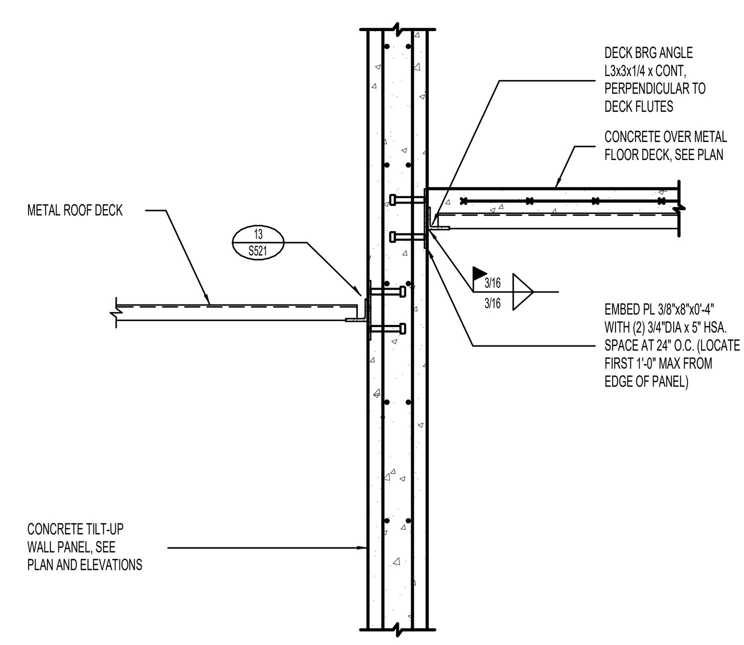
1 DETAIL
NO SCALE



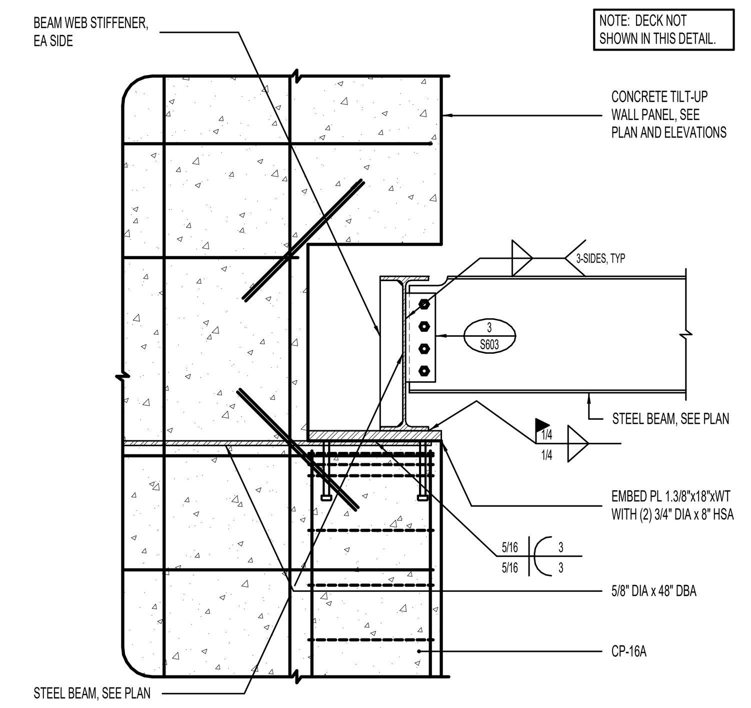
2 STEEL BEAM BEARING ON STEEL COLUMN AT CONCRETE TILT-UP WALL PANEL
NO SCALE



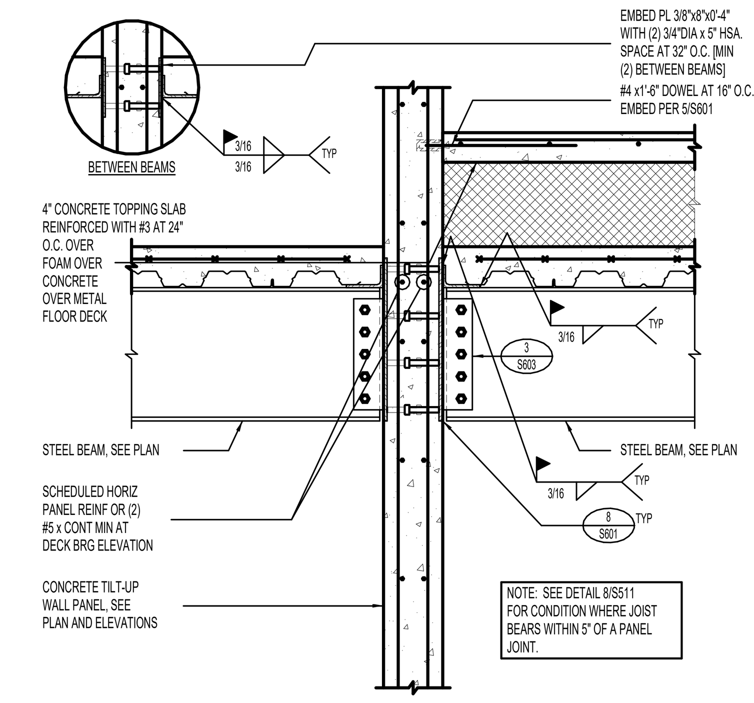
3 CANOPY FRAMING ATTACHMENT DETAIL TO TILT PANEL WALL
NO SCALE



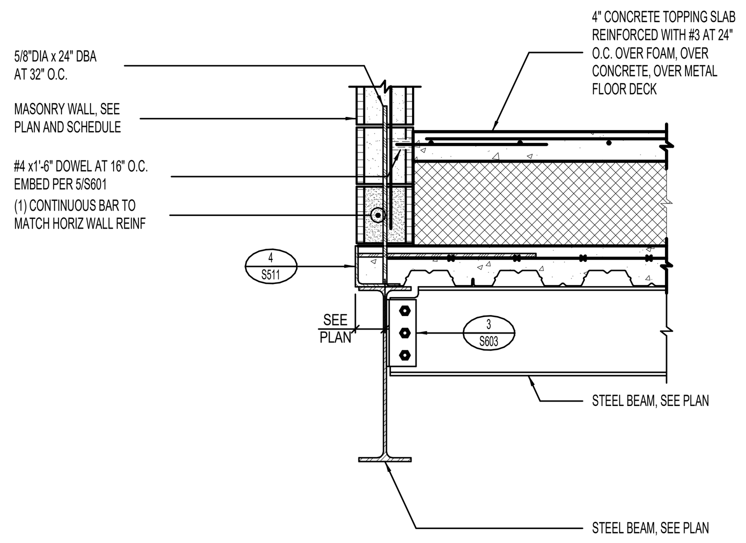
4 TYPICAL DECK BEARING AT CONCRETE TILT-UP WALL PANEL
NO SCALE



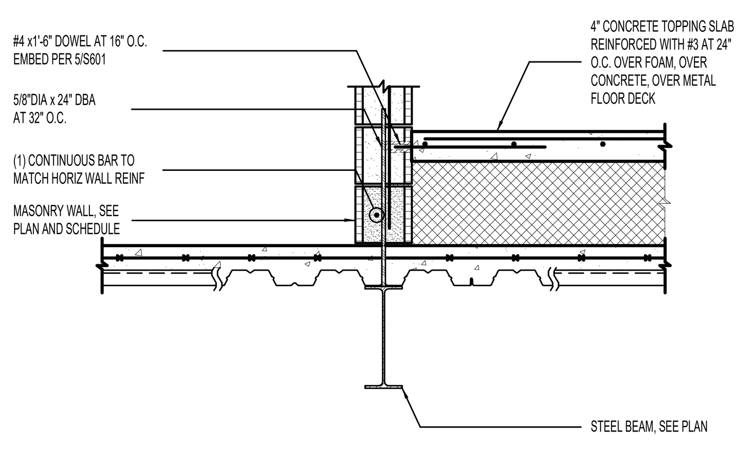
5 STEEL BEAM BEARING AT CONCRETE TILT-UP WALL PANEL
NO SCALE



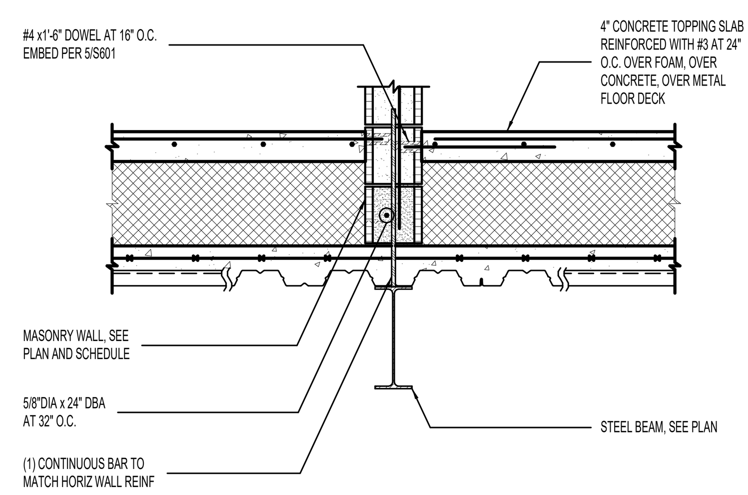
6 STEEL BEAM/DECK BEARING AT INTERIOR TILT-UP PANEL
NO SCALE



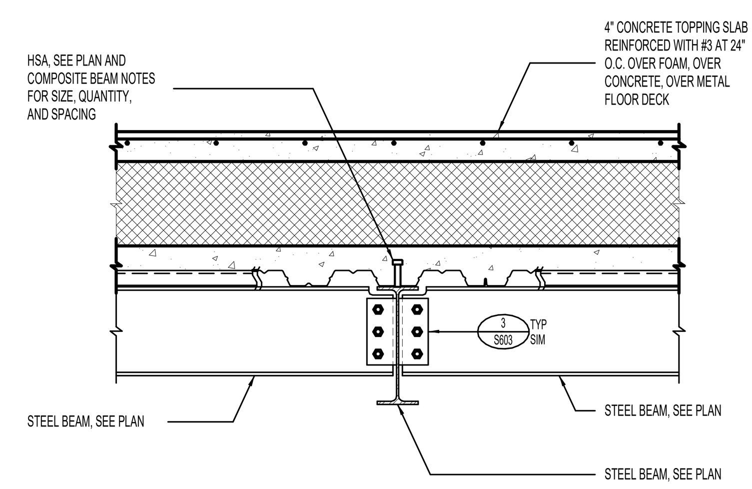
7 TYPICAL STEEL BEAM/JOIST AT SLAB EDGE WITH MASONRY WALL ABOVE
NO SCALE



8 TYPICAL STEEL BEAM WITH MASONRY WALL ABOVE
NO SCALE



9 TYPICAL STEEL BEAM WITH MASONRY WALL ABOVE
NO SCALE



10 TYPICAL STEEL BEAM TO STEEL BEAM CONNECTION
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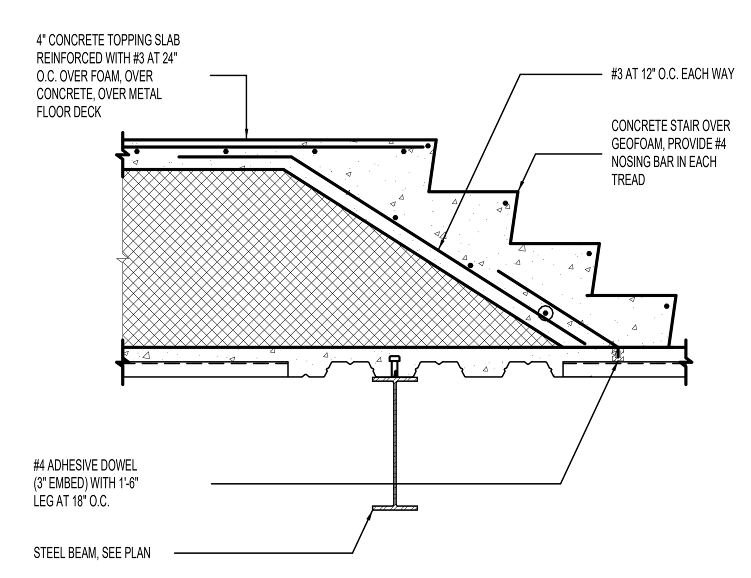
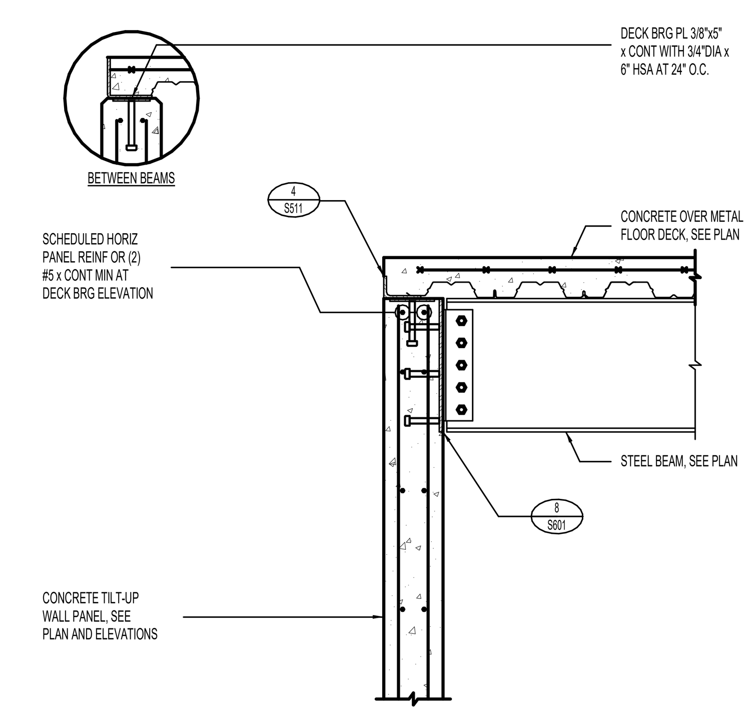
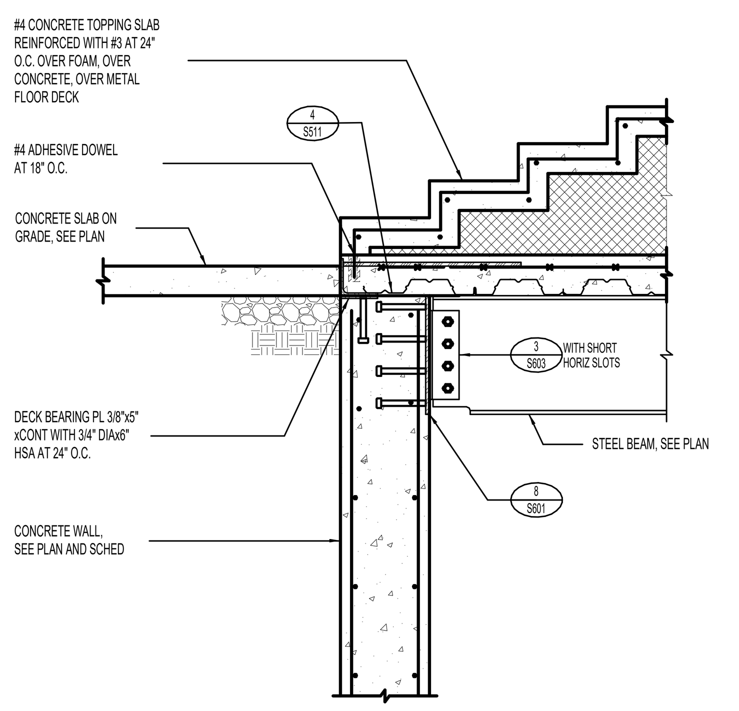


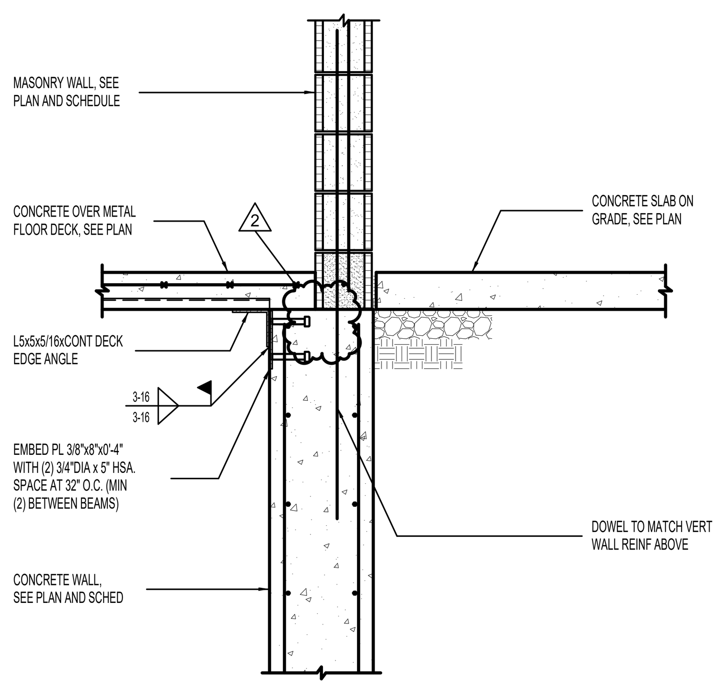
11 DECK BEARING AT CONCRETE STAIRS
NO SCALE



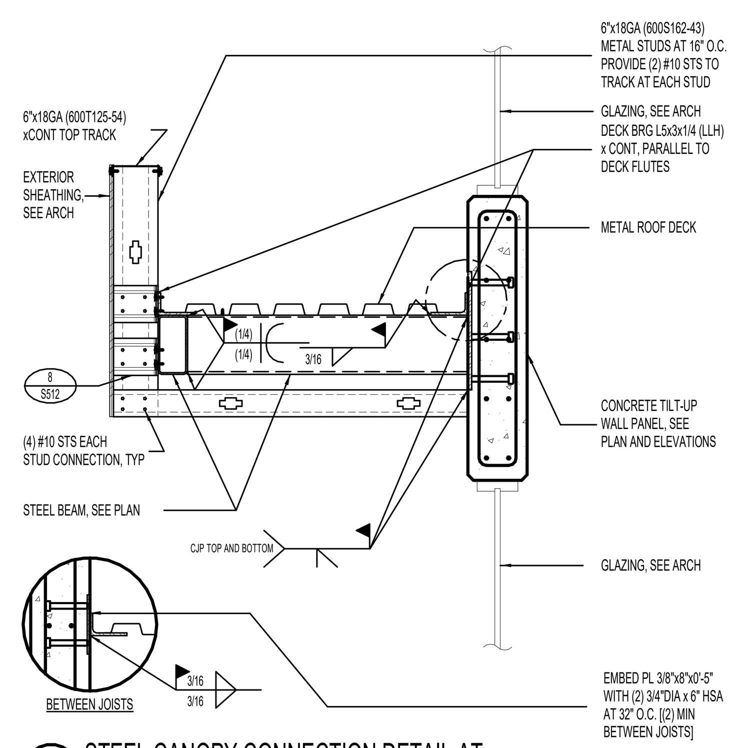
12 TYPICAL BEAM/DECK BEARING AT CONCRETE TILT-UP WALL PANEL
NO SCALE



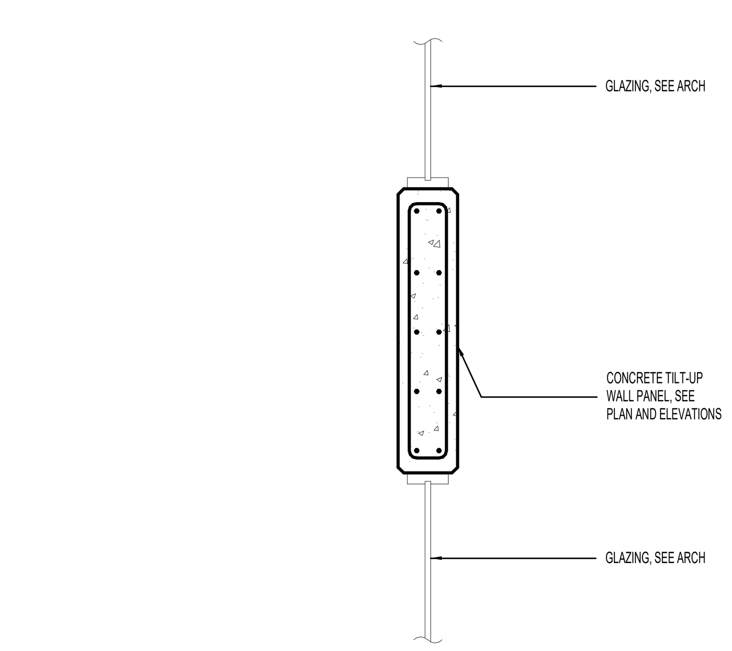
13 TYPICAL BEAM/DECK BEARING AT CONCRETE WALL
NO SCALE



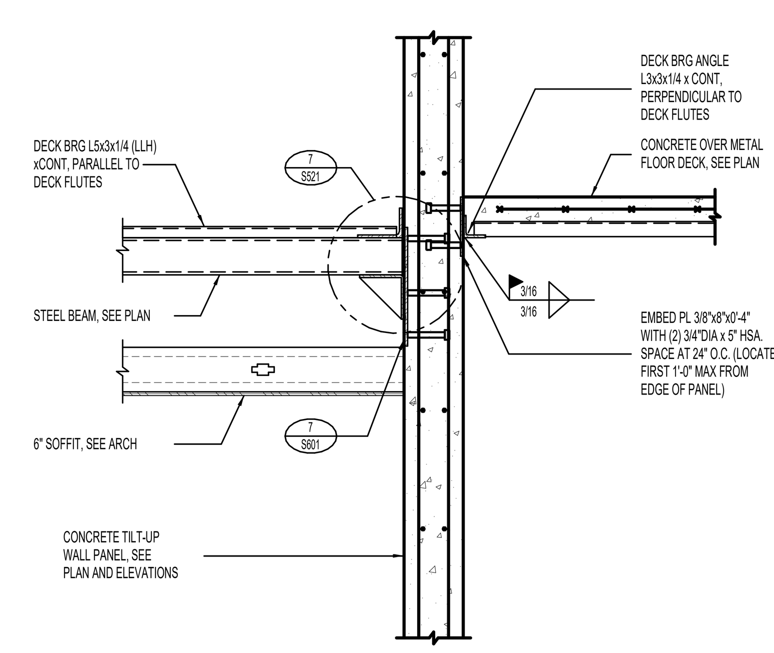
14 MASONRY WALL CONNECTION TO WALL DETAIL
NO SCALE



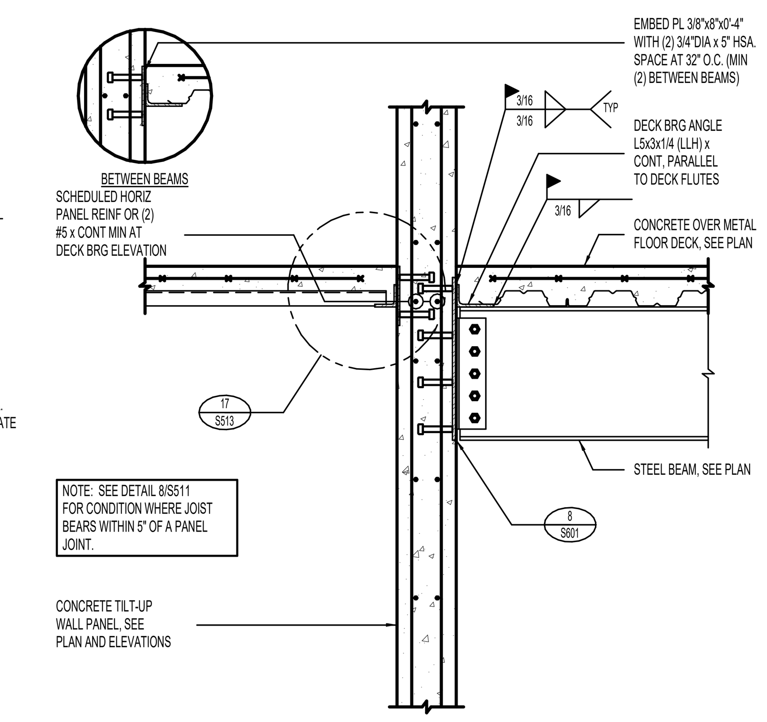
15 STEEL CANOPY CONNECTION DETAIL AT CONCRETE TILT-UP WALL
NO SCALE



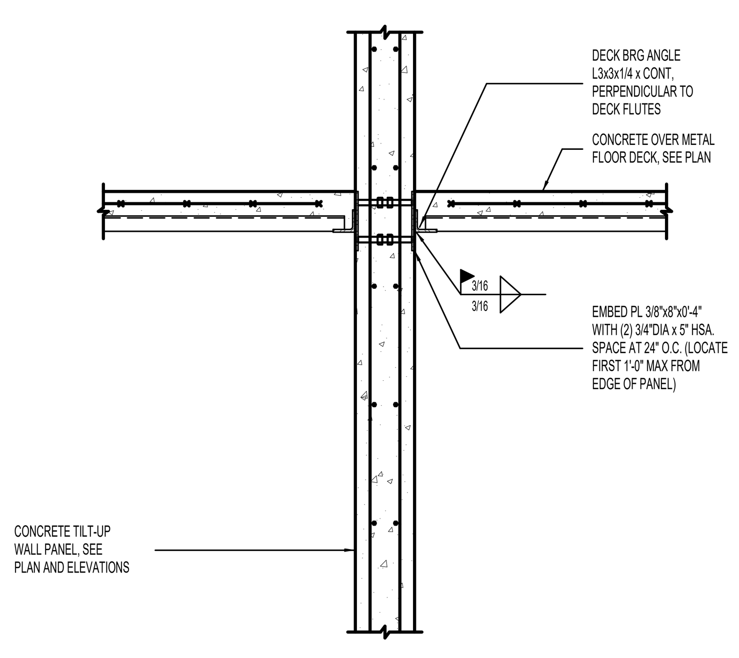
16 TILT PANEL DETAIL AT GLAZING
NO SCALE



17 TYPICAL DECK BEARING AT CONCRETE TILT-UP WALL PANEL
NO SCALE



18 TYPICAL BEAM/DECK BEARING AT CONCRETE TILT-UP WALL PANEL
NO SCALE



19 TYPICAL DECK BEARING AT CONCRETE TILT-UP WALL PANEL
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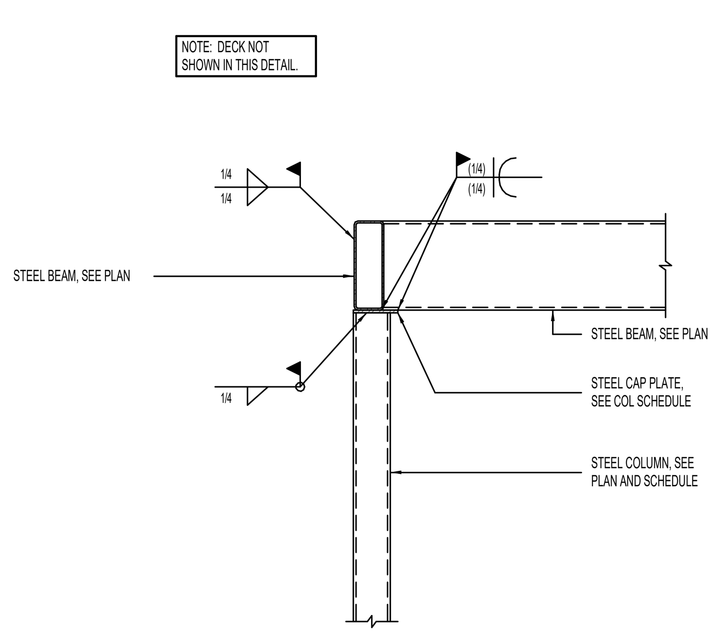
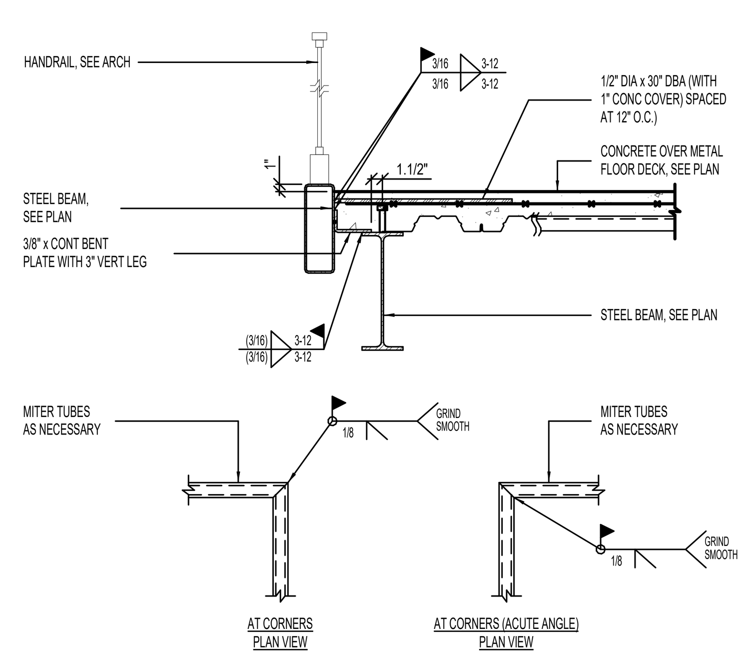
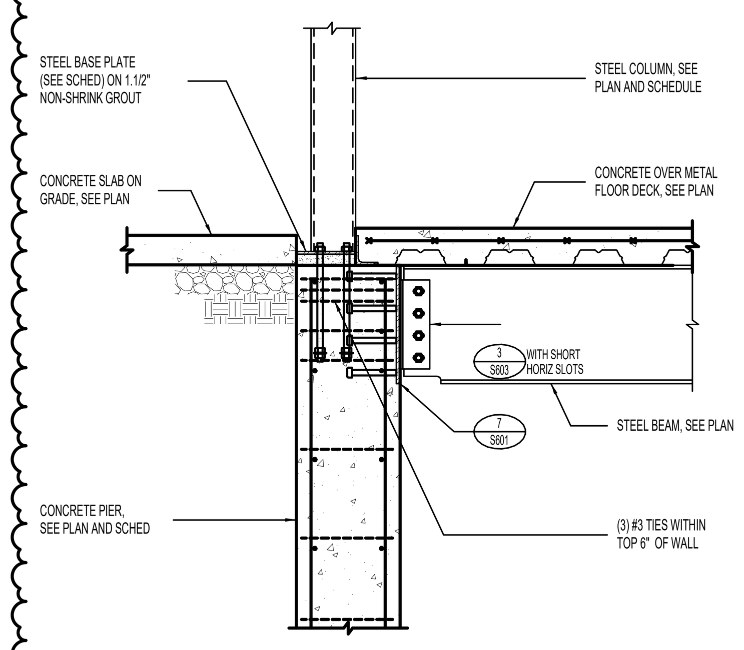


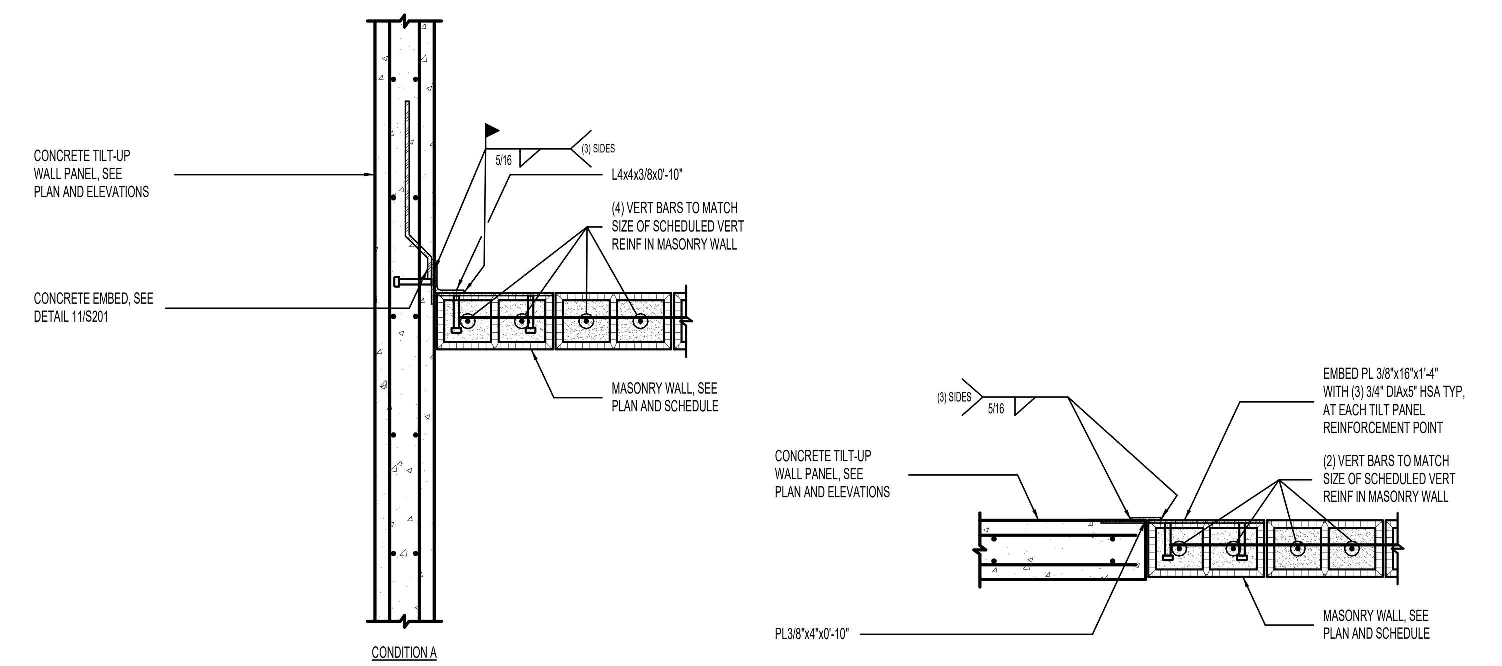
20 STEEL BEAM CONNECTION TO STEEL COLUMN
NO SCALE



21 TYPICAL INTERIOR SLAB EDGE DETAIL AT HANDRAIL
NO SCALE



22 CONCRETE PIER CONNECTION TO STEEL COLUMN DETAIL
NO SCALE



23 MASONRY WALL TO CONCRETE TILT-UP WALL PANEL [PLAN VIEW]
NO SCALE

naylor wentworth lund architects

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Consultants

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333 EAST 300 NORTH
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84318

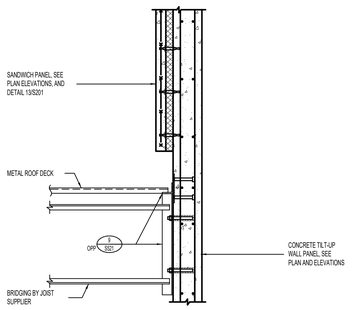
DRAWING ISSUE	BID SET
ISSUE DATE	03/25/2025
NWL PROJECT	0119.002

LICENSED PROFESSIONAL STRUCTURAL ENGINEER
TRAVIS ROSS BRACKUS
8672017-2203
STATE OF UTAH
04/07/2025

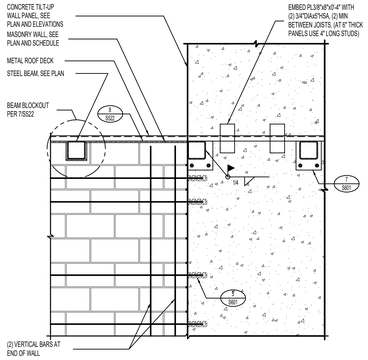
	DATE	REVISION
1	04/01/2025	ADD #2
2	04/07/2025	ADD #3

DETAILS

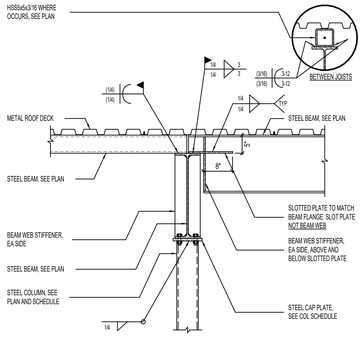
S513



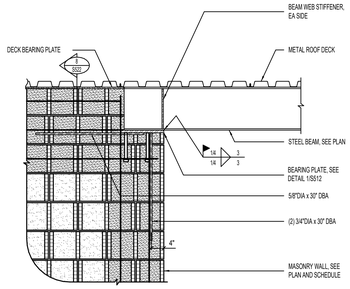
1 LOW ROOF DECK BEARING AT CONCRETE TILT-UP WALL PANEL NO SCALE



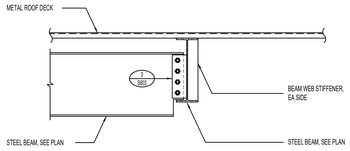
2 STEEL BEAM CONNECTION TO TILT-UP WALL PANEL AT EDGE NO SCALE



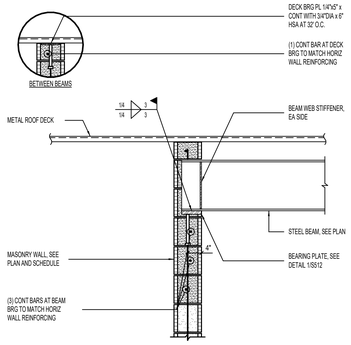
3 TYPICAL STEEL BEAMS BEARING AT STEEL BEAM NO SCALE



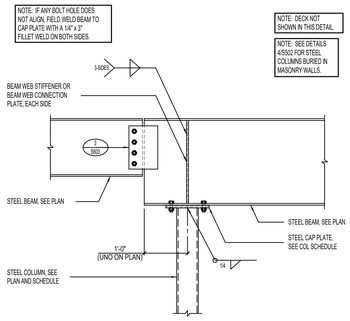
4 STEEL BEAM AT MASONRY WALL NO SCALE



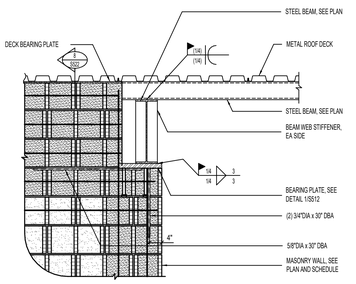
5 STEEL BEAM BEARING AT STEEL BEAM NO SCALE



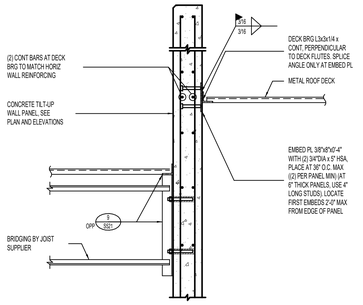
6 BEAM BEARING AT MASONRY WALL NO SCALE



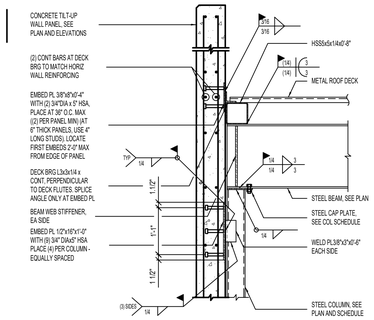
7 TYPICAL DROP-IN STEEL BEAM CONNECTION AT STEEL COLUMN NO SCALE



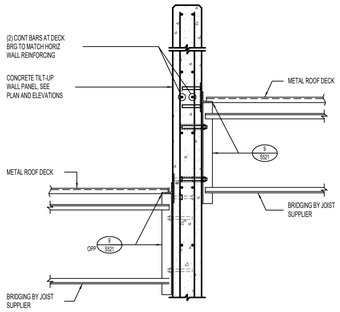
8 STEEL BEAM AT MASONRY WALL NO SCALE



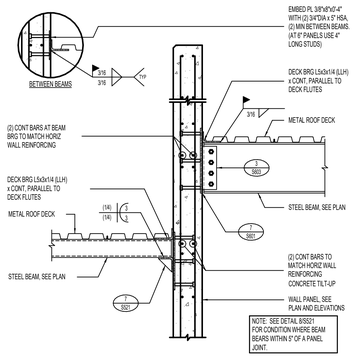
9 TYPICAL DECK BEARING AT CONCRETE TILT-UP WALL PANEL NO SCALE



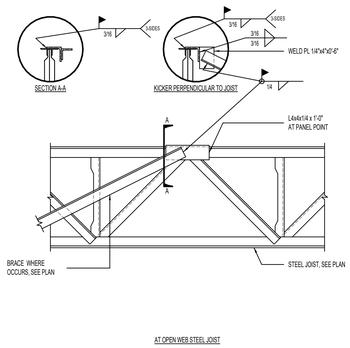
10 TYPICAL DECK BEARING AT CONCRETE TILT-UP WALL PANEL NO SCALE



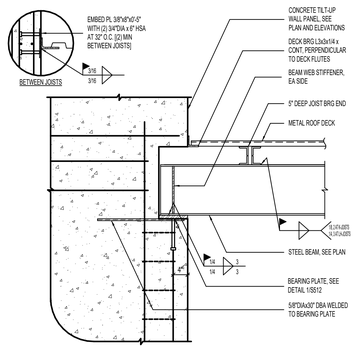
11 TYPICAL DECK BEARING/BRIDGING ATTACHMENT AT CONCRETE TILT-UP WALL PANEL NO SCALE



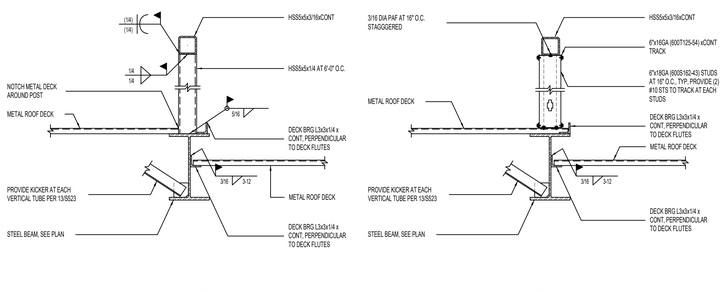
12 BEAM AND DECK BEARING DETAIL AT CONCRETE TILT-UP WALL PANEL NO SCALE



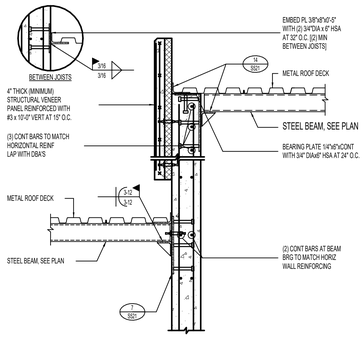
13 TYPICAL STEEL BRACE AT OPEN WEB STEEL JOIST DETAIL NO SCALE



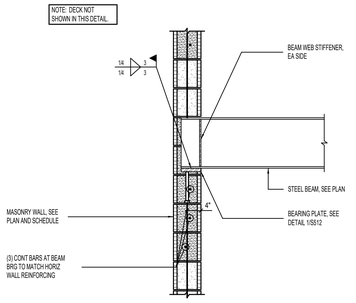
14 STEEL BEAM/JOIST BEARING AT TILT-UP WALL NO SCALE



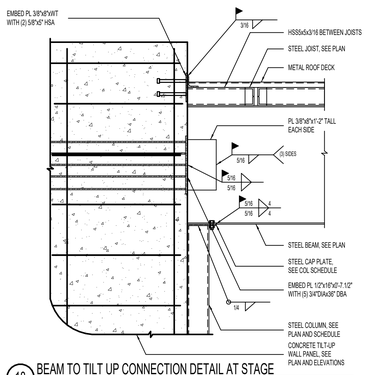
15 PARAPET BRACE DETAIL NO SCALE



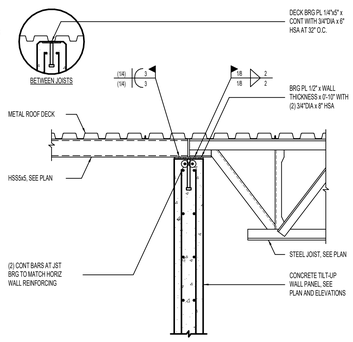
16 LOW ROOF/HIGH ROOF TRANSITION NO SCALE



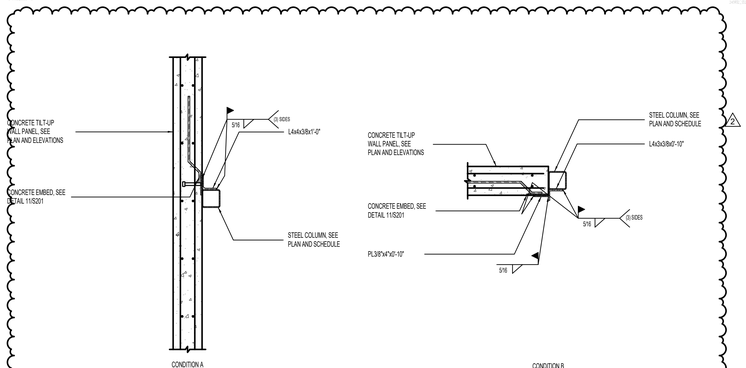
17 ELEVATOR/LIFELINE BEAM BEARING AT MASONRY WALL NO SCALE



18 BEAM TO TILT UP CONNECTION DETAIL AT STAGE NO SCALE



19 TYPICAL 'K' JOIST (5" BEARING ENDS) AND STEEL TUBE BEARING AT CONCRETE TILT-UP WALL PANEL NO SCALE



20 COLUMN TO TILT-UP CONNECTION DETAIL [PLAN VIEW] NO SCALE

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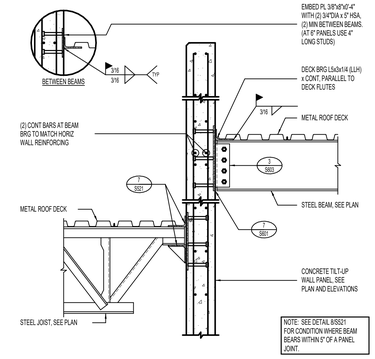
DRAWING ISSUE	BID SET
ISSUE DATE	03/25/2025
NWL PROJECT	01/19.002

LICENSED PROFESSIONAL STRUCTURAL ENGINEER TRAVIS ROSS BRACKUS 7877017-2203 STATE OF UTAH 04/07/2025

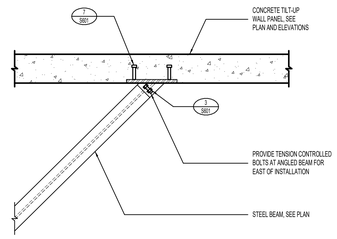
	DATE	REVISION
1	04/01/2025	ADD #2
2	04/07/2025	ADD #3

DETAILS

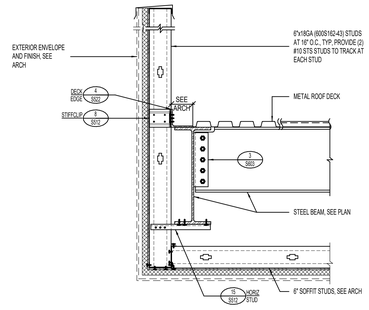
S523



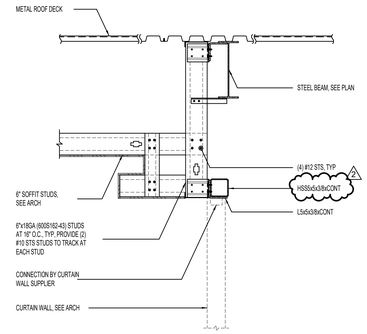
1 BEAM AND DECK BEARING DETAIL AT CONCRETE TILT-UP WALL PANEL — NO SCALE



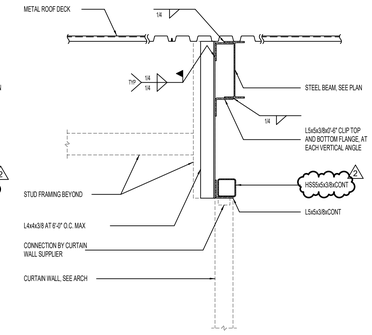
2 TILT PANEL CONNECTION AT ANGLED BEAM [PLAN VIEW] — NO SCALE



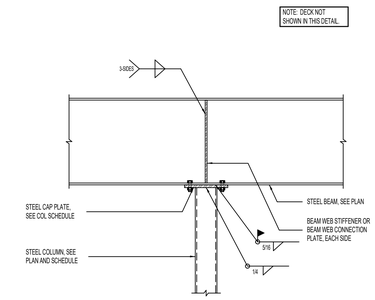
3 DECK EDGE DETAIL — NO SCALE



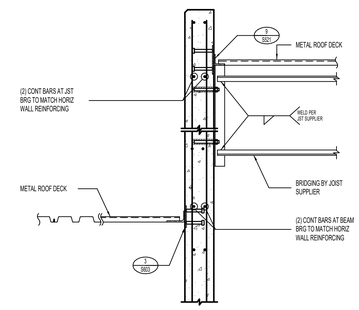
4 ROOF ATTACHMENT DETAIL AT MEDIA CENTER WALL — NO SCALE



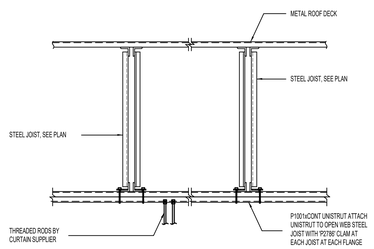
5 TYPICAL STEEL BEAM CARRYING AT STEEL COLUMN — NO SCALE



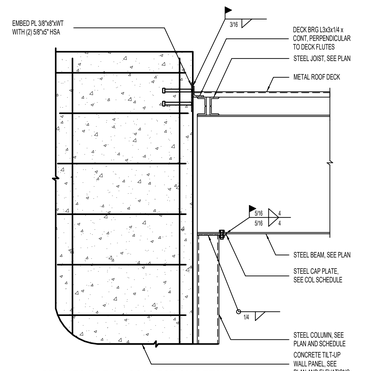
6 LOW ROOF/HIGH ROOF TRANSITION — NO SCALE



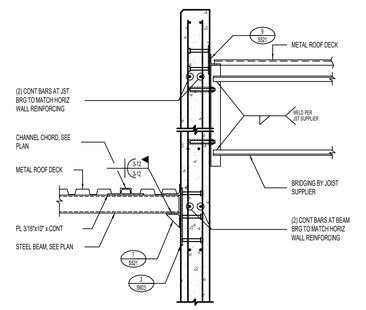
7 GYM DIVIDER CURTAIN ATTACHMENT DETAIL — NO SCALE



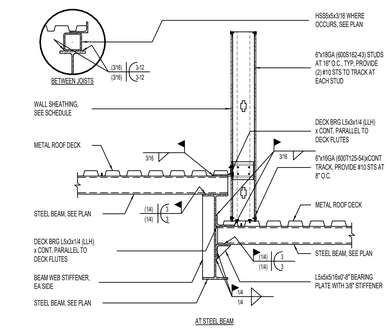
8 BEAM TO TILT-UP CONNECTION DETAIL — NO SCALE



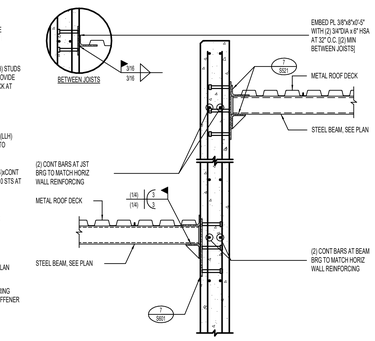
9 LOW ROOF/HIGH ROOF TRANSITION — NO SCALE



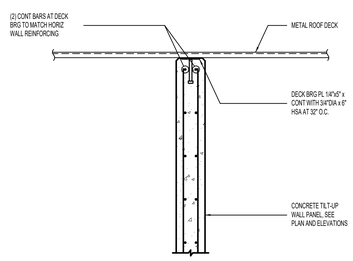
9 LOW ROOF/HIGH ROOF TRANSITION — NO SCALE



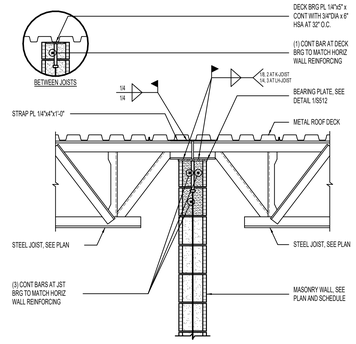
10 STEEL ROOF DETAIL AT BUILDING OFFSET — NO SCALE



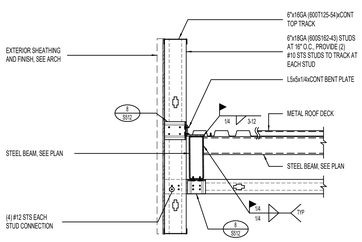
11 LOW ROOF/HIGH ROOF TRANSITION — NO SCALE



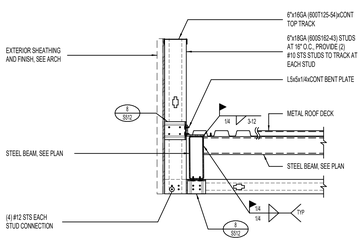
12 ROOF DECK OVER CONCRETE TILT-UP WALL PANEL — NO SCALE



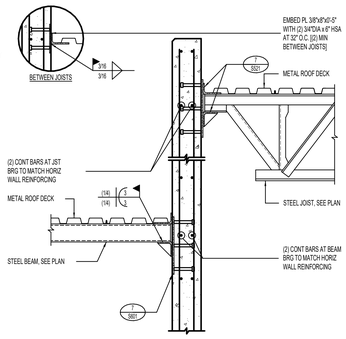
13 TYPICAL JOIST/DECK BEARING AT MASONRY WALLS AT DRAG — NO SCALE



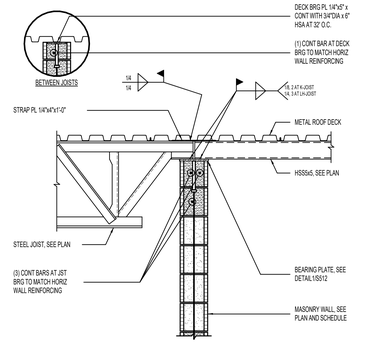
14 ROOF DECK BEARING DETAIL AT CANOPY EDGE — NO SCALE



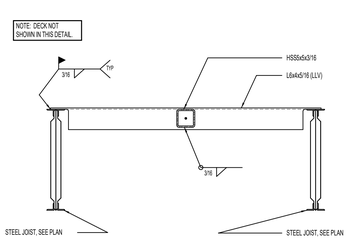
15 ROOF DECK BEARING DETAIL AT CANOPY EDGE — NO SCALE



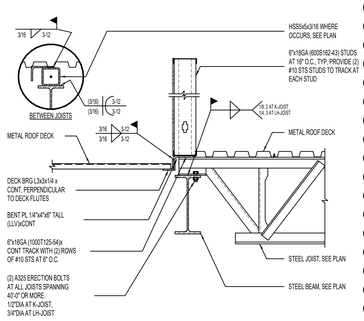
16 LOW ROOF/HIGH ROOF TRANSITION — NO SCALE



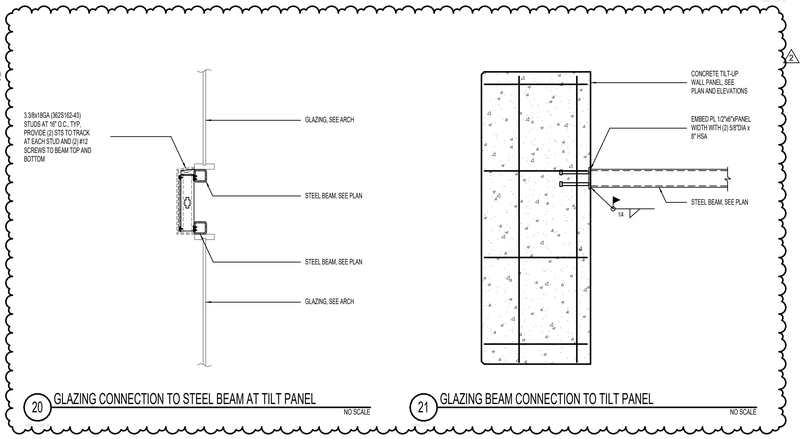
17 TYPICAL JOIST/DECK BEARING AT MASONRY WALL — NO SCALE



18 COLUMN BRACING DETAIL — NO SCALE



19 TYPICAL 'LH' JOIST BEARING AT STEEL BEAM — NO SCALE



20 GLAZING CONNECTION TO STEEL BEAM AT TILT PANEL — NO SCALE

21 GLAZING BEAM CONNECTION TO TILT PANEL — NO SCALE

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DRAWING ISSUE	BID SET
ISSUE DATE	03/25/2025
WWL PROJECT	0119.002

△	DATE	REVISION
1	04/01/2025	ADD #2
2	04/07/2025	ADD #3

DETAILS

S524

CONCRETE CONTINUOUS FOOTING SCHEDULE (FC)

MARK	WIDTH	DEPTH	REINFORCING CROSSWISE				REINFORCING LENGTHWISE				COMMENTS
			No.	SIZE	LENGTH	SPACING	No.	SIZE	LENGTH	SPACING	
FC2.0	2' - 0"	12"	-	#4	1' - 6"	48"	3	#4	CONT	EQ	
FC2.0A	2' - 0"	12"	-	#4	1' - 6"	48"	3	#4	CONT	EQ	REINFORCE TOP AND BOTTOM
FC2.5	2' - 6"	12"	-	#5	2' - 0"	14"	3	#5	CONT	EQ	
FC2.5A	2' - 6"	12"	-	#5	2' - 0"	14"	3	#5	CONT	EQ	REINFORCE TOP AND BOTTOM
FC3.0	3' - 0"	12"	-	#5	2' - 6"	14"	3	#5	CONT	EQ	
FC3.0A	3' - 0"	12"	-	#5	2' - 6"	14"	3	#5	CONT	EQ	REINFORCE TOP AND BOTTOM
FC3.5	3' - 6"	12"	-	#5	3' - 0"	14"	3	#5	CONT	EQ	
FC3.5A	3' - 6"	12"	-	#5	3' - 0"	14"	3	#5	CONT	EQ	REINFORCE TOP AND BOTTOM
FC4.5A	4' - 6"	16"	-	#5	4' - 0"	14"	4	#5	CONT	EQ	REINFORCE TOP AND BOTTOM
FC5.5	5' - 6"	15"	-	#5	5' - 0"	14"	6	#5	CONT	EQ	
FC11.0A	11' - 0"	18"	-	#7	10' - 6"	12"	10	#7	CONT	EQ	REINFORCE TOP AND BOTTOM
FC12.0A	12' - 0"	24"	-	#7	11' - 6"	8"	13	#7	CONT	EQ	<varies>

CONCRETE SPOT FOOTING SCHEDULE (FS)

MARK	WIDTH	LENGTH	DEPTH	REINFORCING CROSSWISE				REINFORCING LENGTHWISE				COMMENTS
				No.	SIZE	LENGTH	SPACING	No.	SIZE	LENGTH	SPACING	
FS3.0	3' - 0"	3' - 0"	12"	3	#5	2' - 6"	EQ	3	#5	2' - 6"	EQ	
FS3.5	3' - 6"	3' - 6"	12"	3	#5	3' - 0"	EQ	3	#5	3' - 0"	EQ	
FS4.0	4' - 0"	4' - 0"	12"	4	#5	3' - 6"	EQ	4	#5	3' - 6"	EQ	
FS4.5	4' - 6"	4' - 6"	13"	5	#5	4' - 0"	EQ	5	#5	4' - 0"	EQ	
FS5.0	5' - 0"	5' - 0"	14"	6	#5	4' - 6"	EQ	6	#5	4' - 6"	EQ	
FS6.0	6' - 0"	6' - 0"	16"	6	#6	5' - 6"	EQ	6	#6	5' - 6"	EQ	
FS6.5	6' - 6"	6' - 6"	18"	6	#6	6' - 0"	EQ	6	#6	6' - 0"	EQ	
FS7.0	7' - 0"	7' - 0"	19"	7	#6	6' - 6"	EQ	7	#6	6' - 6"	EQ	
FS7.5	7' - 6"	7' - 6"	20"	8	#6	7' - 0"	EQ	8	#6	7' - 0"	EQ	
FS8.5	8' - 6"	8' - 6"	22"	9	#7	8' - 0"	EQ	9	#7	8' - 0"	EQ	

CONCRETE THICKENED SLAB FOOTING SCHEDULE (FTS)

MARK	WIDTH	LENGTH	DEPTH	REINFORCING CROSSWISE				REINFORCING LENGTHWISE				COMMENTS
				No.	SIZE	LENGTH	SPACING	No.	SIZE	LENGTH	SPACING	
FTS2.0	2' - 0"		12"	-	#4	1' - 6"	48"	3	#4	CONT	EQ	

CONCRETE FOOTING NOTES:
1. PLACE ALL FOOTING REINFORCING IN THE BOTTOM OF THE FOOTING WITH 3" CLEAR CONCRETE COVER (UNO).
2. TOP REINFORCING, WHERE OCCURS, SHALL BE PLACED IN THE TOP OF THE FOOTING WITH 2" MINIMUM CONCRETE COVER.
3. IF FOOTINGS ARE EARTH-FORMED, FOOTINGS SHALL BE 8" LONGER AND WIDER THAN SCHEDULED.
4. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.
5. SOME SCHEDULED FOOTINGS MAY NOT BE USED. SEE FOOTING AND FOUNDATION PLAN FOR FOOTING MARKS.

1 CONCRETE FOOTING SCHEDULE
1/2" = 1'-0"

CONCRETE REINFORCING BAR LAP SPLICE SCHEDULE

BAR SIZE	f'c = 3000psi & f'c = 3500 psi				f'c = 4000psi & f'c = 4500 psi				f'c = 5000psi				f'c = 6000psi			
	REGULAR		TOP		REGULAR		TOP		REGULAR		TOP		REGULAR		TOP	
	CLASS		CLASS		CLASS		CLASS		CLASS		CLASS		CLASS		CLASS	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
#3	17"	22"	22"	28"	15"	19"	19"	24"	13"	17"	17"	22"	12"	16"	15"	20"
#4	22"	29"	29"	37"	19"	25"	25"	32"	17"	22"	22"	29"	16"	20"	20"	27"
#5	28"	36"	36"	47"	24"	31"	31"	40"	22"	28"	28"	36"	20"	26"	26"	33"
#6	33"	43"	43"	56"	29"	37"	37"	48"	26"	33"	33"	43"	24"	31"	31"	40"
#7	48"	63"	63"	81"	42"	54"	54"	70"	37"	49"	49"	63"	34"	44"	44"	58"
#8	55"	72"	72"	93"	48"	62"	62"	80"	43"	56"	55"	72"	39"	51"	51"	66"
#9	62"	81"	81"	105"	54"	70"	70"	91"	48"	63"	63"	81"	44"	57"	57"	74"
#10	70"	91"	91"	118"	61"	79"	79"	102"	54"	70"	70"	91"	50"	64"	64"	83"
#11	78"	101"	101"	131"	67"	87"	87"	113"	60"	78"	78"	101"	55"	71"	71"	93"

TABULATED VALUES ARE FOR CASE 1 REINFORCEMENT, WHERE THE REQUIREMENTS OF TABLE BELOW ARE MET. WHERE THESE CONDITIONS ARE NOT MET, MULTIPLY THE LAP LENGTHS (l_d) BY 1.5.

REQUIREMENT FOR CASE 1 LAP LENGTHS

BAR CLEAR SPACING	CLEAR COVER	STIRRUPS OR TIES
>=db	>=db	>=CODE MINIMUM THROUGHOUT l_d
>=2db	>=db	NO REQUIREMENT

db = BAR DIAMETER
l_s = LAP SPLICE LENGTH
l_d = DEVELOPMENT LENGTH = CLASS A SPLICE LENGTH

CONCRETE REINFORCING BAR LAP SPLICE NOTES:
1. THIS SCHEDULE SHALL BE USED FOR ALL BAR SPLICES IN CONCRETE, UNLESS NOTED OTHERWISE.
2. CLASS 'A' SPLICES MAY BE USED ONLY AT SLABS ON GRADE OR WHERE APPROVED BY EOR IN CASES WHERE 50% OR LESS OF THE BARS ARE SPLICED WITHIN THE LAP SPLICE LENGTH.
3. CLASS 'B' SPLICES SHALL BE USED FOR ALL SPLICES UNLESS NOTED OTHERWISE.
4. TIES AND STIRRUPS SHALL NOT BE SPLICED.
5. DO NOT SPLICE VERTICAL BARS IN RETAINING WALLS UNLESS SPECIFICALLY SHOWN.
6. THE VALUES TABULATED IN SCHEDULE ARE FOR GRADE 60 REINFORCING BARS. FOR GRADE 80, MULTIPLY LAP LENGTHS BY 1.53.
7. THE VALUES TABULATED IN SCHEDULE ARE MINIMUM REQUIREMENTS. LONGER LENGTHS MAY BE USED FOR CONSTRUCTIBILITY.
8. LAP SPLICES ARE NOT ALLOWED FOR BARS GREATER THAN #11 BAR. THE LENGTHS IN SCHEDULE ARE FOR TENSION DEVELOPMENT LENGTH.
9. TOP BARS ARE CLASSIFIED AS HORIZONTAL BARS WHERE 12", OR MORE, OF FRESH CONCRETE IS CAST BELOW THE REINFORCING BAR.
10. FOR EPOXY COATED OR ZINC AND EPOXY DUAL-COATED BARS WITH CLEAR COVER < 3db OR CLEAR SPACING <6db , MULTIPLY LAP LENGTHS BY 1.5. FOR ALL OTHER CASES MULTIPLY BY 1.2
11. FOR LIGHT WEIGHT CONCRETE, MULTIPLY LAP LENGTHS BY 1.33.
12. SPLICES FOR BUNDLED BARS:
    A. FOR BUNDLED BARS OF THREE OR LESS, LAP SPLICE LENGTHS SHALL BE MULTIPLIED BY 1.2.
    B. FOR BUNDLED BARS OF FOUR OR MORE, LAP SPLICE LENGTHS SHALL BE MULTIPLIED BY 1.33.
    C. INDIVIDUAL BAR SPLICES WITHIN A BUNDLE SHALL NOT OVERLAP.
    D. ENTIRE BUNDLES SHALL NOT BE LAP SPLICED.
13. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.

2 CONCRETE REINFORCING - BAR LAP SPLICE SCHEDULE
3/4" = 1'-0"

CONCRETE WALL SCHEDULES

MARK	THICKNESS	REINFORCING			WALL TYPE	COMMENTS
		VERTICAL	HORIZONTAL	TOP AND BOTTOM		
CW-8A	8"	#4 AT 18" O.C.	#4 AT 12" O.C.	(1) #4 BARS	A	
CW-14A	14"	#7 AT 10" O.C. I.F. #4 AT 12" O.C., O.F.	#4 AT 16" O.C. E.F.	(2) #4 BARS	C	PROVIDE 5,000 PSI CONCRETE
CW-14B	14"	#10 AT 6" O.C. I.F. #4 AT 12" O.C., O.F.	#4 AT 16" O.C. E.F.	(2) #4 BARS	C	<varies>

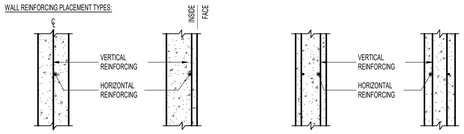
CONCRETE FOUNDATION WALL NOTES:
1. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.

ABBREVIATIONS:
EACH FACE E.F.
INSIDE FACE I.F.
OUTSIDE FACE O.F.

WALLS NOT DESIGNATED IN PLAN

THICKNESS	REINFORCING	
	VERTICAL	HORIZONTAL
6"	#4 BARS AT 18" O.C.	#4 BARS AT 18" O.C.
8"	#4 BARS AT 18" O.C.	#4 BARS AT 12" O.C.
10"	#4 BARS AT 18" O.C.	#5 BARS AT 15" O.C.
12"	#4 BARS AT 18" O.C. E.F.	#4 BARS AT 18" O.C. E.F.

WALL REINFORCING PLACEMENT TYPES:

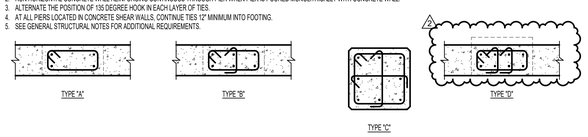


3 CONCRETE WALL SCHEDULE
3/4" = 1'-0"

CONCRETE PIER SCHEDULE

MARK	PIER SIZE			REINFORCING		TYPE	COMMENTS
	W	x	L	VERTICAL	TIES		
CP-14A	14"	x	14"	(6) #5 BARS	(2) #3 AT 6" O.C.	A	
CP-16A	"WT"	x	16"	(4) #5 BARS	#3 AT 6" O.C.	A	
CP-16B	14"	x	16"	(6) #5 BARS	(2) #3 AT 6" O.C.	A	
CP-16C	16"	x	16"	(4) #5 BARS	(3) #3 AT 6" O.C.	C	
CP-24A	14"	x	24"	(6) #5 BARS	(2) #3 AT 6" O.C.	B	
CP-24B	24"	x	24"	(8) #5 BARS	(3) #3 AT 6" O.C.	C	
CP-24C	18"	x	24"	(8) #6 BARS	(2) #3 AT 6" O.C.	D	

CONCRETE PIER NOTES:
1. INSTALL (3) SETS OF TIES WITHIN TOP 5" OF ALL PIERS (UNO).
2. RUN HORIZONTAL CONCRETE WALL REINFORCING CONTINUOUS THROUGH PIER WHEN PIER IS POURED MONOLITHICALLY WITH CONCRETE WALL.
3. ALTERNATE THE POSITION OF 135 DEGREE HOOK IN EACH LAYER OF TIES.
4. AT ALL PIERS LOCATED IN CONCRETE SHEAR WALLS, CONTINUE TIES 12" MINIMUM INTO FOOTING.
5. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.

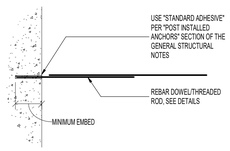


4 CONCRETE PIER SCHEDULE
3/4" = 1'-0"

STANDARD ADHESIVE EMBEDMENT SCHEDULE

REBAR DOWEL (THREADED ROD SIZE)	MIN EMBEDMENT INTO CONCRETE OR GROUTED MASONRY
#3 (3/8")	3 3/8"
#4 (1/2")	4 1/2"
#5 (5/8")	5 5/8"
#6 (3/4")	6 3/4"

STANDARD ADHESIVE EMBEDMENT NOTES:
1. SPECIFIC EMBEDMENTS, NOTES AND DETAILS IN DRAWINGS SHALL GOVERN OVER THIS SCHEDULE.
2. HOLE DIAMETER SHALL BE DOWEL/ROD DIAMETER PLUS 1/8". FOLLOW MANUFACTURER'S INSTRUCTIONS FOR HOLE PREPARATION.
3. PROVIDE A 3" MINIMUM EDGE DISTANCE TO CENTER OF HOLE.
4. CONTACT STRUCTURAL ENGINEER IF MINIMUM EMBEDMENTS INDICATED ABOVE ARE NOT ACHIEVABLE.
5. SEE "POST INSTALLED ANCHORS" SECTION OF GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.



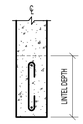
5 STANDARD ADHESIVE EMBEDMENT SCHEDULE
3/4" = 1'-0"

CONCRETE LINTEL SCHEDULE

MARK	THICKNESS	LINTEL DEPTH	REINFORCING		TYPE	COMMENTS
			HORIZONTAL	STIRRUPS		
CL-16A	1' - 2"	1' - 4"	(1) #5 TOP AND BOTTOM	#4 AT 8" O.C.	A	

CONCRETE LINTEL NOTES:
1. HORIZONTAL REINFORCING SHALL EXTEND 4'-0" BETOND EDGE OF OPENING. IF HORIZONTAL REINFORCING CANNOT EXTEND 4'-0" BEYOND EDGE OF OPENING, PROVIDE 90 DEGREE STANDARD HOOK.
2. SPLICE TOP BARS AT MID-SPAN OF LINTEL ONLY AND BOTTOM BARS OVER SUPPORTS ONLY.
3. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.

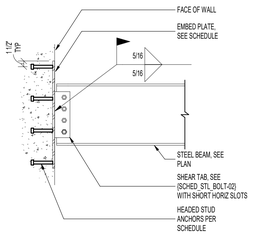
LINTEL REINFORCING PLACEMENT TYPES:



6 CONCRETE LINTEL SCHEDULE
3/4" = 1'-0"

CONNECTION SCHEDULE

BEAM DEPTH	EMBED PLATE	ANCHORS
W8, W10, W12 HSS5, HSS12	PL 1/2"x16"x1'-0"	(3) ROWS OF (2) 3/4"DIA x 5" HSA ((6) TOTAL)
W14, W16	PL 1/2"x28"x1'-0"	(6) ROWS OF (2) 3/4"DIA x 5" HSA ((12) TOTAL)
W18, W21, W24	PL 1/2"x30"x1'-6"	(7) ROWS OF (3) 3/4"DIA x 5" HSA ((21) TOTAL)

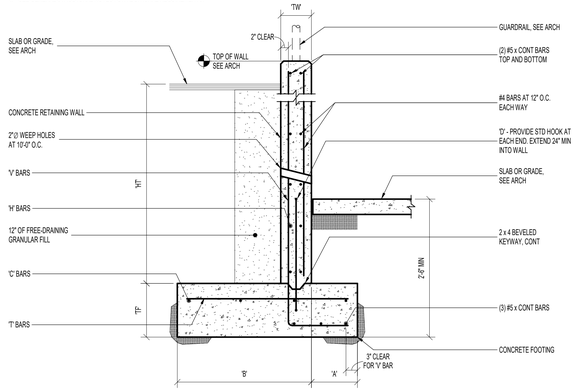


7 TYPICAL EMBED PLATE CONNECTION SCHEDULE FOR CONCRETE WALLS
3/4" = 1'-0"

CONCRETE RETAINING WALL SCHEDULE

CRW FOOTING			CRW WALL														
DIMS			'HT'	'TW'	V		H		T		C		D		COMMENTS
A	B	TF			SIZE	SPACE	SIZE	SPACE	SIZE	SPACE	SIZE	SPACE	SIZE	SPACE	
1'-6"	1'-6"	12"	4'-0"	8"	#5	12"	#4	16"	#5	12"	#5	12"	-	-	
2'-6"	2'-6"	14"	6'-0"	8"	#5	12"	#4	16"	#5	12"	#5	12"	-	-	
3'-0"	4'-0"	16"	8'-0"	10"	#5	8".	#4	12"	#5	10"	#5	10"	-	-	

CONCRETE RETAINING WALL NOTES:
1. 'V' BARS SHALL NOT BE SPLICED BELOW MID-HEIGHT OF WALL.
2. WHERE 'HT' IS GREATER THAN 9'-0", SPACING OF 'V' BARS CAN BE INCREASED TO 24" O.C.
3. PROVIDE VERTICAL CONTRACTION JOINTS AT 20'-0" O.C. MAXIMUM. SEE ARCHITECTURAL DRAWINGS AND GENERAL STRUCTURAL NOTES.
4. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.



8 CONCRETE RETAINING WALL SCHEDULE
3/4" = 1'-0"

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333 EAST 300 NORTH
HYDE PARK CITY, UT
84318

DRAWING ISSUE	BID SET
ISSUE DATE	03/25/2025
WWL PROJECT	0118.002

	DATE	REVISION
1	04/01/2025	ADD #2
2	04/07/2025	ADD #3

SCHEDULES

S601

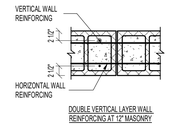
MASONRY WALL SCHEDULES

MARK	THICKNESS	MATERIAL	SOLID GROUT	TYPICAL REINFORCING (SEE NOTE 1) VERTICAL	HORIZONTAL	COMMENTS
MW-8A	8"	CMU	Yes	#5 AT 32" O.C.	#4 AT 24" O.C.	
MW-8B	8"	CMU	Yes	#5 AT 16" O.C. EE	#4 AT 24" O.C.	
MW-8C	8"	CMU	Yes	#5 AT 32" O.C.	#5 AT 8" O.C.	

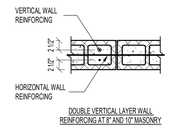
MASONRY WALLS NOT DESIGNATED IN PLAN

THICKNESS	REINFORCING VERTICAL	HORIZONTAL (NOT SOLID GROUTED)	HORIZONTAL (SOLID GROUTED)
6"	#5 AT 32" O.C.	#4 AT 48" O.C.	#4 AT 24" O.C.
8"	#5 AT 32" O.C.	#5 AT 48" O.C.	#4 AT 24" O.C.
10"	#5 AT 24" O.C.	#6 AT 48" O.C.	#5 AT 24" O.C.
12"	#5 AT 24" O.C.	(2) #5 AT 48" O.C.	(2) #4 AT 24" O.C.

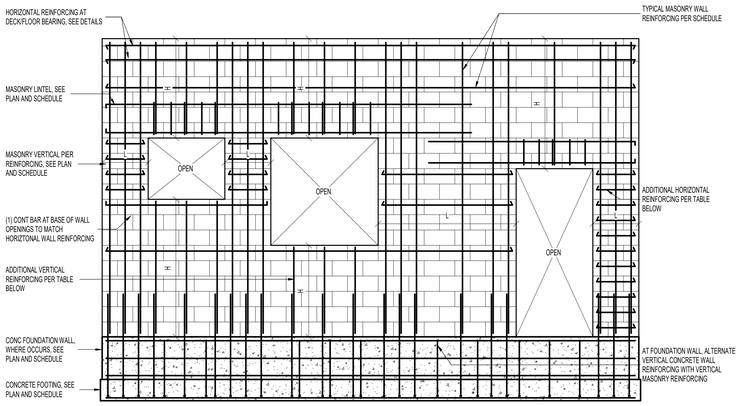
MASONRY WALL NOTES:
1. SPACING OF MASONRY WALL REINFORCING SHALL NOT EXCEED TYPICAL SCHEDULED REINFORCING. SEE ELEVATION AND MASONRY WALL SECTION REINFORCING TABLE BELOW FOR LOCATIONS WHERE TIGHTER SPACING IS REQUIRED.
2. COORDINATE WALL FINISHES, MATERIALS, COURSING, ETC. WITH ARCHITECTURAL DRAWINGS.
3. DO NOT SOLID GROUT WALLS UNLESS REQUIRED BY SCHEDULE, NOTES, OR DETAILS.
4. SOLID GROUT ALL MASONRY COURSES BELOW GRADE.
5. SINGLE LAYER OF VERTICAL REINFORCING SHALL BE CENTERED IN WALL (UNO).
6. VERTICAL REINFORCING SHALL EXTEND INTO FOOTINGS AND TERMINATE WITH STANDARD HOOK. FOR CONCRETE FOUNDATION WALLS 4'-0" OR TALLER, VERTICAL WALL REINFORCING SHALL DOWEL 3'-0" MINIMUM INTO THE FOUNDATION WALL (UNO).
7. PROVIDE TWO VERTICAL BARS (MIN) AT ALL CORNERS AND END OF WALLS.
8. HORIZONTAL WALL REINFORCING SHALL BE PLACED BETWEEN DOUBLE LAYER OF VERTICAL MASONRY REINFORCING, WHERE OCCURS.
9. HORIZONTAL WALL REINFORCING SHALL CONTINUE THROUGH MASONRY LINTELS. WHERE BOTH HORIZONTAL WALL REINFORCING AND LINTEL REINFORCING OCCUR IN THE SAME COURSE, USE THE LARGER REINFORCING.
10. SEE DETAIL (S3801-01) FOR WHERE HORIZONTAL REINFORCING TERMINATES AT EDGE OF OPENINGS.
11. IN CONCRETE FOUNDATION WALL BELOW, ALTERNATE VERTICAL CONCRETE WALL REINFORCING WITH VERTICAL MASONRY REINFORCING.
12. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.



DOUBLE VERTICAL LAYER WALL REINFORCING AT 12" MASONRY



DOUBLE VERTICAL LAYER WALL REINFORCING AT 8" AND 10" MASONRY



MARKS AND SYMBOLS LEGEND

———	INDICATES SCHEDULED MASONRY WALL, PIER, OR LINTEL REINFORCING
- - - -	INDICATES ADDITIONAL REINFORCING AS REQUIRED PER MASONRY WALL SECTION REINFORCING TABLE
L	INDICATES LENGTH OF WALL SECTION
H	INDICATES HEIGHT OF WALL SECTION

MASONRY WALL SECTION REINFORCING TABLE

HEIGHT OR LENGTH	MAXIMUM SPACING
H OR L ≤ 4'-0"	8" O.C.
4'-0" < H OR L ≤ 6'-0"	16" O.C.
6'-0" < H OR L ≤ 8'-0"	24" O.C.
8'-0" < H OR L ≤ 10'-0"	32" O.C.
10'-0" < H OR L ≤ 12'-0"	40" O.C.
H OR L > 12'-0"	48" O.C.

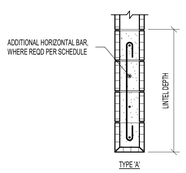
NOTES:
1. ADDITIONAL VERTICAL AND HORIZONTAL REINFORCING SHALL MATCH BAR SIZE OF SCHEDULED WALL REINFORCING AT SPACING INDICATED IN TABLE ABOVE.
2. WHERE 8" SPACING IS REQUIRED, #3 BAR MAY BE USED FOR HORIZONTAL REINFORCING.
3. WHERE SPACING OF SCHEDULED WALL REINFORCING IS LESS THAN TABLE ABOVE, SCHEDULED SPACING SHALL GOVERN.

1 MASONRY WALL SCHEDULE
3/4" = 1'-0"

MASONRY LINTEL SCHEDULE NEW

MARK	LINTEL DEPTH	REINFORCING HORIZONTAL	STIRRUPS	TYPE	COMMENTS
ML-8A	8"	(1) #5xCONT	NONE	-	
ML-16A	16"	(1) #5xCONT TOP AND BOTTOM	NONE	-	
ML-24A	24"	(1) #6xCONT TOP AND BOTTOM	#4 AT 8" O.C.	A	
ML-32A	32"	(1) #7xCONT TOP AND BOTTOM	#4 AT 8" O.C.	A	

MASONRY LINTEL NOTES:
1. LINTEL WIDTH AND MATERIAL TYPE SHALL BE THE SAME AS THE WALL IN WHICH THE LINTEL IS CONSTRUCTED.
2. GROUT MASONRY LINTELS MONOLITHICALLY WITH THE SUPPORT WALL OR PIER AT EACH END.
3. MASONRY LINTEL ML-8A, SHALL BE USED OVER OPENINGS IN MASONRY WALLS WHEN A SPECIFIC MASONRY LINTEL IS NOT OTHERWISE SPECIFIED. WHEN A LINTEL IS SPECIFIED ON THE PLANS, THE MAXIMUM SPAN AS NOTED IN THIS SCHEDULE SHALL NOT APPLY. CONSULT THE STRUCTURAL ENGINEER FOR LINTELS NOT SPECIFIED ON THE PLANS WHICH HAVE A SPAN GREATERTHAN 3'-4".
4. MASONRY LINTEL ML-8A SHALL NOT BE LOCATED DIRECTLY BELOW FLOOR OR ROOF BEAMS OR GIRDERS UNLESS NOTED OTHERWISE ON THE PLANS. JOISTS SHALL NOT BEAR ON ANY LINTEL LESS THAN 16" DEEP. CONSULT THE STRUCTURAL ENGINEER FOR LINTELS NOT SHOWN ON THE PLANS WHICH ARE LOCATED DIRECTLY BELOW FLOOR OR ROOF BEAMS OR GIRDERS.
5. EXTEND ALL HORIZONTAL REINFORCING 48 BAR DIAMETERS MINIMUM BEYOND THE EDGE OF ALL OPENINGS. IF HORIZONTAL REINFORCING CANNOT EXTEND 48 BAR DIAMETERS BEYOND EDGE OF OPENING, PROVIDE 90° STANDARD HOOK.
6. SPLICE TOP BARS AT MIDSPAN OF LINTEL ONLY AND BOTTOM BARS OVER SUPPORTS ONLY.
7. HORIZONTAL WALL REINFORCING SHALL CONTINUE THROUGH MASONRY LINTELS. WHERE BOTH HORIZONTAL WALL REINFORCING AND LINTEL REINFORCING OCCUR IN THE SAME COURSE, USE THE LARGER REINFORCING.
8. DOWEL VERTICAL REINFORCING OF WALL ABOVE LINTEL INTO THE FULL DEPTH OF LINTEL OR 48 BAR DIAMETERS, WHICHEVER IS LESS.
9. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.

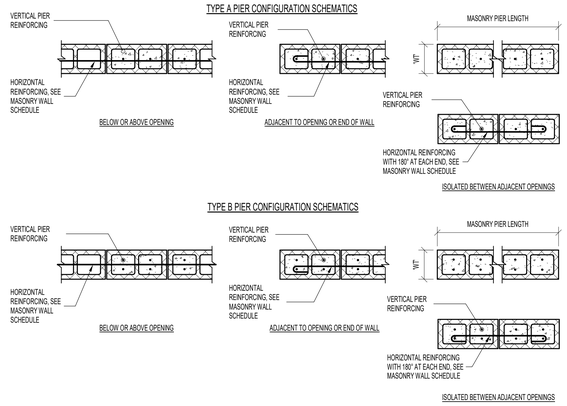


2 MASONRY LINTEL SCHEDULE
3/4" = 1'-0"

MASONRY PIER SCHEDULE

MARK	PIER SIZE 'WT' x	L	VERTICAL REINFORCING	TYPE	COMMENTS
MP-16A	'WT'	16"	(2) #5 BARS	A	
MP-24A	'WT'	24"	(3) #5 BARS	A	
MP-32A	'WT'	32"	(4) #5 BARS	A	
MP-40A	'WT'	40"	(5) #5 BARS	A	
MP-40B	'WT'	40"	(10) #5 BARS	B	

MASONRY PIER NOTES:
1. SEE MASONRY WALL SCHEDULE FOR HORIZONTAL REINFORCING REQUIREMENTS FOR ALL PIERS.
2. VERTICAL REINFORCING AND TIES SHALL EXTEND FULL HEIGHT OF WALL (UNO).
3. VERTICAL MASONRY PIER REINFORCING SHALL EXTEND INTO THE FOOTING AND TERMINATE WITH A STANDARD 90° HOOK. FOR CONCRETE FOUNDATION WALLS 4'-0" OR TALLER, VERTICAL PIER REINFORCING SHALL DOWEL 3'-0" MINIMUM INTO THE FOUNDATION WALL (UNO).
4. IN CONCRETE FOUNDATION WALLS, VERTICAL REINFORCING AT TYPE 'B' MASONRY PIERS SHALL BE TIED WITH #3 TIES AT TOP AND BOTTOM OF FOUNDATION WALL. SEE DETAILS.
5. HORIZONTAL REINFORCING OF ADJACENT WALLS SHALL RUN CONTINUOUS THROUGH MASONRY PIERS.
6. WHERE HORIZONTAL REINFORCING TERMINATES AT PIER, PROVIDE 180° HOOK. SEE SCHEMATICS BELOW.
7. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.



3 MASONRY PIER SCHEDULE
3/4" = 1'-0"

MASONRY REINFORCING LAP SPLICE SCHEDULE

BAR SIZE	8" MASONRY (1) BAR PER CELL	8" MASONRY (2) BARS PER CELL	10" MASONRY (1) BAR PER CELL	10" MASONRY (2) BARS PER CELL	12" MASONRY (1) BAR PER CELL	12" MASONRY (2) BARS PER CELL
#3	12"	12"	12"	12"	12"	12"
#4	13"	21"	12"	20"	12"	20"
#5	20"	35"	16"	32"	13"	32"
#6	38"	SEE NOTE 1	29"	60"	24"	60"
#7	52"	SEE NOTE 1	40"	SEE NOTE 1	33"	63"
#8	SEE NOTE 1	SEE NOTE 1	61"	SEE NOTE 1	50"	SEE NOTE 1

2018 IBC

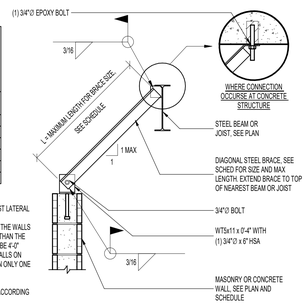
NOTES:
1. WHERE INDICATED, USE MECHANICAL SPLICE COUPLER. SEE GSN FOR REQUIREMENTS.
2. WHERE VERTICAL BARS HAVE A SPECIFIED LAP SPLICE GREATER THAN THE HEIGHT OF THE GROUT POUR, USE MECHANICAL SPLICE COUPLER.

4 MASONRY REINFORCING LAP SPLICE SCHEDULE (f'm=2000psi)
3/4" = 1'-0"

NONBEARING MASONRY OR CONCRETE WALL BRACING SCHEDULE

ANGLE BRACE SIZE	MAXIMUM LENGTH 'L'
L2.1/2x2.1/2x3/16	8'-0"
L3x3x3/16	9'-6"
L3.1/2x3.1/2x1/4	11'-0"
L4x4x1/4	13'-0"
L5x5x5/16	16'-3"
L6x6x5/16	19'-9"

NONBEARING MASONRY OR CONCRETE WALL BRACING NOTES:
1. ALL NONBEARING WALLS AND PARTITIONS SHALL BE BRACED AT THE TOP TO RESIST LATERAL FORCES.
2. WALL AND PARTITIONS MAY BE BRACED BY INTERSECTING WALLS PROVIDED THAT THE WALLS OR PARTITIONS THAT SUPPORT THE WALL ARE EQUAL TO OR GREATER IN HEIGHT THAN THE WALL WHICH THEY BRACE. THE LENGTH OF THE MASONRY SUPPORT WALL SHALL BE 4'-0" MINIMUM. THE MAXIMUM LENGTH OF WALL WHICH MAY BE BRACED WITH OTHER WALLS ON BOTH ENDS IS TWELVE FEET (12'-0") FOR MASONRY WALLS. FOR WALLS BRACED ON ONLY ONE END SHALL BE SIX FEET (6'-0") IN LENGTH.
3. FOR CONDITION AT METAL STUDS. SEE GENERAL STRUCTURAL NOTES.
4. WALLS WHICH DO NOT MEET THE REQUIREMENTS OF NOTE #2 SHALL BE BRACED ACCORDING TO THE FOLLOWING RULE:
   WALLS AND PARTITIONS THAT ARE TERMINATED JUST ABOVE THE CEILING SHALL BE BRACED ACCORDING TO THIS DETAIL. SPACING OF BRACES SHALL NOT EXCEED 6'-0" FROM ANOTHER BRACE OR INTERSECTING WALL. SEE BRACE SCHEDULE FOR CORRECT SIZE AND MAXIMUM LENGTH.

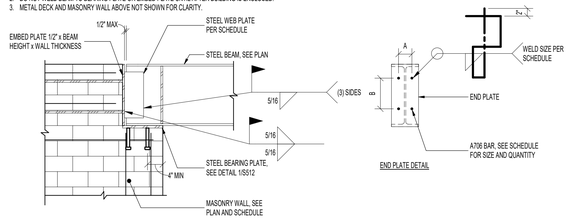


5 NONBEARING MASONRY OR CONCRETE WALL BRACING SCHEDULE
3/4" = 1'-0"
[1/S121a]

STEEL DRAG CONNECTION AT MASONRY WALL

BEAM SIZE	BEAM WEB PLATE DIMENSIONS THICKNESS	HEIGHT	WIDTH	EMBED PLATE BARS BAR SIZE	QUANTITY	BAR LENGTH	SPACING A	SPACING B	WELD SIZE
W12	3/8"	9"	5"	#5	(1) ROW OF (2)	48"	3"	-	3/8"
W16	3/8"	12"	5"	#5	(2) ROWS OF (2)	48"	3"	8"	3/8"
W18	3/8"	15"	5"	#5	(3) ROWS OF (2)	48"	3"	8"	3/8"

NOTES:
1. WHERE BARS ARE INTERRUPTED BY ADJACENT BEAMS BEARING IN WALL, CUT BARS AT BEAM WEB AND WELD TO BEAM WEB ON EACH SIDE OF BEAM WITH FILLET WELD ALL-AROUND PER SCHEDULE ABOVE.
2. DO NOT WELD BEAM TO BEARING PLATE OR EMBED PLATE UNTIL AFTER BUILDING IS ENCLOSED.
3. METAL DECK AND MASONRY WALL ABOVE NOT SHOWN FOR CLARITY.

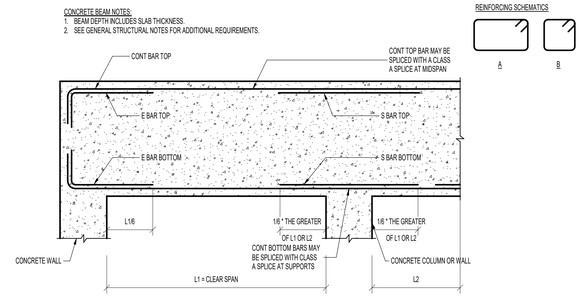


6 STEEL DRAG CONNECTION SCHEDULE AT MASONRY WALL
3/4" = 1'-0"

CONCRETE BEAM SCHEDULE

MARK	BEAM SIZE WIDTH	DEPTH	TOP REINFORCING Cont	E	S	BOTTOM REINFORCING Cont	E	S	STIRRUPS FROM FACE OF SUPPORT S	SCHEMATIC	COMMENTS
CB-8A	8"	40"	(2) #5	(2) #5	(2) #5	(4) #5	(2) #5	(2) #5	#3 STIRRUPS AT 8" O.C.	B	
CB-12A	12"	40"	(2) #5	(2) #5	(2) #5	(4) #5	(2) #5	(2) #5	#3 STIRRUPS AT 8" O.C.	A	

CONCRETE BEAM NOTES:
1. BEAM DEPTH INCLUDES SLAB THICKNESS.
2. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.



7 CONCRETE BEAM SCHEDULE
3/4" = 1'-0"

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Client

BHB STRUCTURAL
2766 South Main Street
Salt Lake City, Utah 84115
801-355-5656
bhb@bhbengineers.com

Consultants

CACHE COUNTY SCHOOL DISTRICT

HYDE PARK ELEMENTARY SCHOOL
333 EAST 300 NORTH
HYDE PARK CITY, UT
84318

DRAWING ISSUE	BID SET
ISSUE DATE	03/25/2025
NWL PROJECT	0119.002

	DATE	REVISION
1	04/01/2025	ADD #2
2	04/07/2025	ADD #3

SCHEDULES

S602

RESOLUT

MEMORANDUM

DATE: April 8, 2025
PROJECT NO. 240627

PROJECT: CCSD Hyde Park Elementary

The following revision, additions, deletions, and/or items of clarification shall hereby be included as an integral part of the Contract Documents for the above-listed project and shall be fully binding. All other requirements of the original plans and specification shall remain in effect in their respective order.

DIVISION – 22 & 23

QUESTIONS

Q: On the RCP plans there is a note for ceiling access hatches but there aren't any shown on the floor plans. Please clarify if there is any that need to be installed.

A: Access panels have been added to the mechanical sheet in the addendum.

Q: Detail 7/P501 shows a sampling manhole for the grease interceptor. This is not shown or reflected on the civil plans. If the sampling manhole is required, please provide specifications including diameter and depth.

A: The sampling manhole will be shown on sheet P102C and shall be of the size detailed on 7/P501.

Q: Harris Controls as an approved HVAC controls vendor (Section 230900 – 2.2) to supply a Johnson Controls Facility Explorer (FX) system.

A: Harris Controls are approved installing Johnson Controls Facility Explorer (FX) system.

DRAWINGS

SHEET - MP101B
1. Add access panel in B106 as shown. See attached.

SHEET - M402
1. Connect expansion tanks and glycol feed units as shown. See attached.
2. Locate AS-1 as shown. See attached.

SHEET - M403
1. Delete extra expansion tanks as shown. See attached.
2. Show CWT-1 in Mech C228 as shown. See attached.

SHEET - M502
1. Update Cooling Tower Detail as shown. See attached.
2. Detail 13 shall not be used. See attached.
3. Update details 1 and 5 as shown. See attached.

SHEET - M601
1. Update Chemical Feed System Schedule as shown. See attached.
2. Add Hydronic Unit Heater Schedule as shown. See attached.

SHEET - P101B
1. Add access panel in B132 as shown. See attached.

SHEET - P102C
1. Add Sampling Manhole as shown. See attached.
2. Modify roof drain piping as shown. See attached.

SHEET - P401
1. Add access panels in Building Restrooms as shown. See attached.

SHEET - P502
1. Update Water Heater Piping Diagram as shown. See attached.

SHEET - P601
1. Add garbage disposer to S-3 as shown. See attached.

PRIOR APPROVALS

The following manufacturers, trade names and products are allowed to bid on a name brand only basis with the provision that they completely satisfy all and every requirement of the drawings, specifications and all addenda shall conform to the design, quality and standards specified, established, and required for the complete and satisfactory installation and performance of the building and all its respective parts.

Item	Manufacturer	Comments
Air Handlers	Carrier	Approved
Boilers	Patterson Kelly	Not Approved
Seismic & Vibration	SRS	Approved
Check Valves	Titan	Approved
Y-Strainers	Titan	Approved
Thermometers	Miljoco	Approved
Domestic Water Heaters	Laars	Not Approved
Split Systems	LG	Approved
Fans	Twin City Fans	Approved
Pressure Relief Dampers	United Enertech	Approved
Barometric Relief Dampers	United Enertech	Approved
Duct Mounted Access Doors	United Enertech	Approved
Flexible Ducts	JP Lamborn	Approved
Custom Air Handling Units	Scott Springfield Mfg.	Not Approved
Package Indirect Fire Outdoor MAU	Valent, or Thermo Tek	Not Approved
Ductless Fan Coil Units	Mitsubishi	Approved
Hood	Western Vent	Not Approved
Condensing Boiler	RBI, KN	Not Approved
Rotary Screw Water Chiller	Dunham Bush	Not Aproved
Air Handler	Dunham Bush, Klimor	Not Approved
Make-up Handler	Dunham Bush	Not Approved
Pumps	Wilo	Not Approved
Y-Strainers	Griswold	Approved
Fan Coil Units	Whalen	Not Approved
Air Separator	Patterson	Approved
Condensate Neutralizer	JJM	Approved
Expansion Tank	Patterson	Approved
Air Coils	Nationwide Coil	Not Approved
Glycol Feed System	Patterson	Approved
Heat Exchangers	Polaris	Approved
Cabinet Unit Heaters	Beacon Morris, Sigma	Approved
VFD	Franklin Electric	Not Approved
Air Vent	Watson McDaniel	Approved

Boilers	Lochinvar	Approved
Water Heaters	Lochinvar	Approved
Service Sink	Fiat	Approved
Grease Interceptor	Schier	Not Approved
Water Closets	Sloan Valve Co.	Not Approved
Bottle fillers/ Coolers	Sloan Valve Co.	Not Approved
Lavatories	Sloan Valve Co.	Not Approved
Sensor Faucet	Sloan Valve Co.	Approved
Hydronic Piping Specialties	IFC	Approved
Expansion Tanks, Air Separators	Grundfos	Approved
Hydronic Heat Exchangers	Alfa Laval	Approved
Controls	Harris – Installing Johnson Controls FX	Approved
Stainless Steel Sinks	Acorn	Not Approved
Water Coolers	Murdock	Not Approved
Expansion Tanks	American Wheatley	Not Approved
Storage Tanks	American Wheatley	Not Approved
Air Dirt Separator	American Wheatley	Not Approved
Glycol Feed	American Wheatley	Not Approved
Boiler	Camus	Not Approved
Test and Balance	Accurate Airflow	Approved
Test and Balance	BCS	Approved
Water Treatment	ISI	Approved

KEYED NOTES

1. SPLIT SYSTEM INSTALLATION SEE DETAIL 7/M506.

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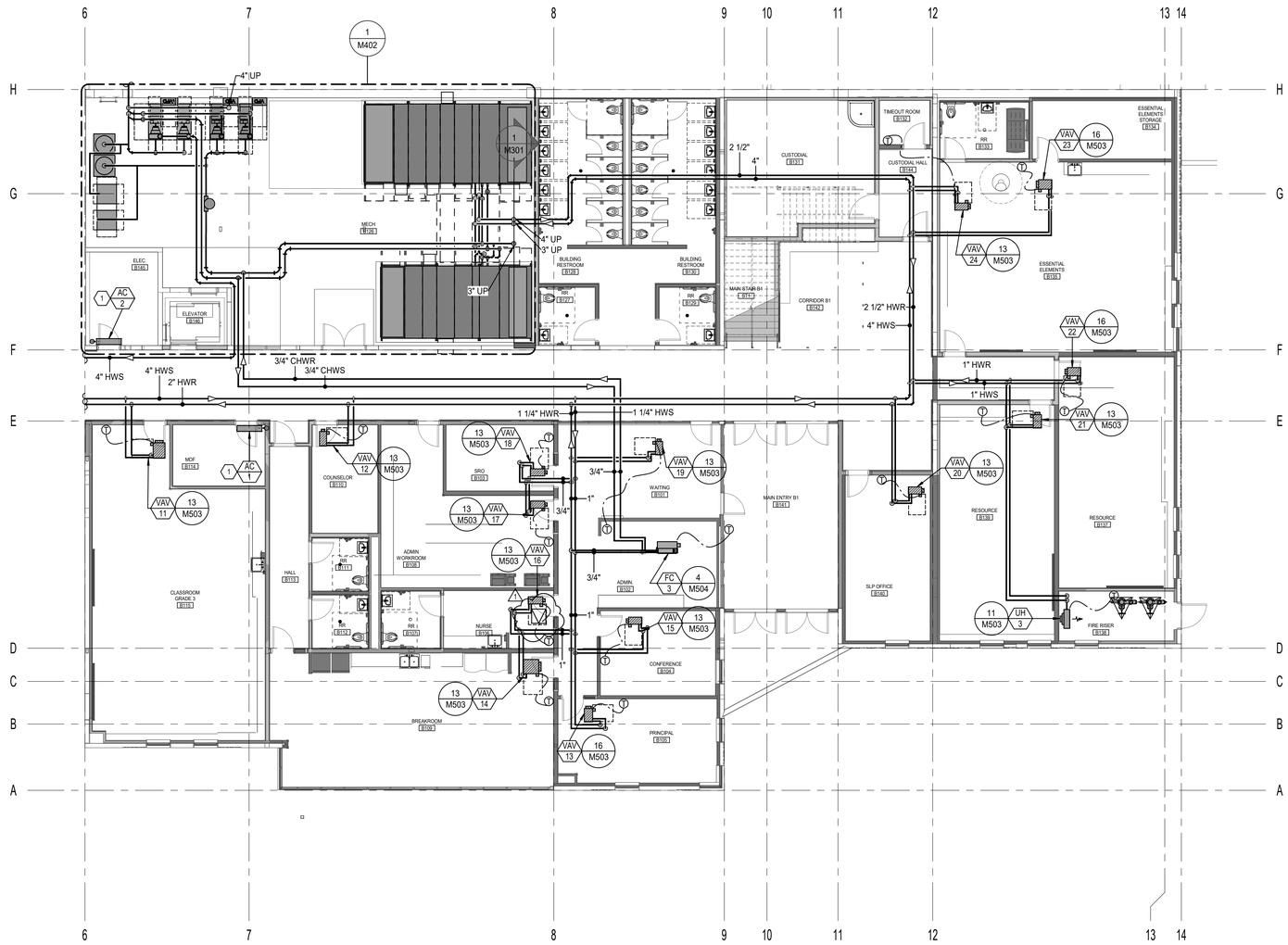


1 LEVEL 01 AREA 'B' MECHANICAL PIPING PLAN
MP101B 1/8" = 1'-0"

CACHE COUNTY
SCHOOL DISTRICT

HYDE PARK ELEMENTARY SCHOOL
333 EAST 300 NORTH
HYDE PARK CITY, UT
84318

DRAWING ISSUE	BID SET
ISSUE DATE	03/25/2025
NWL PROJECT	0119.002

No. 8388645-2202
JEDEDIAH L. JENKINS
STATE OF UTAH

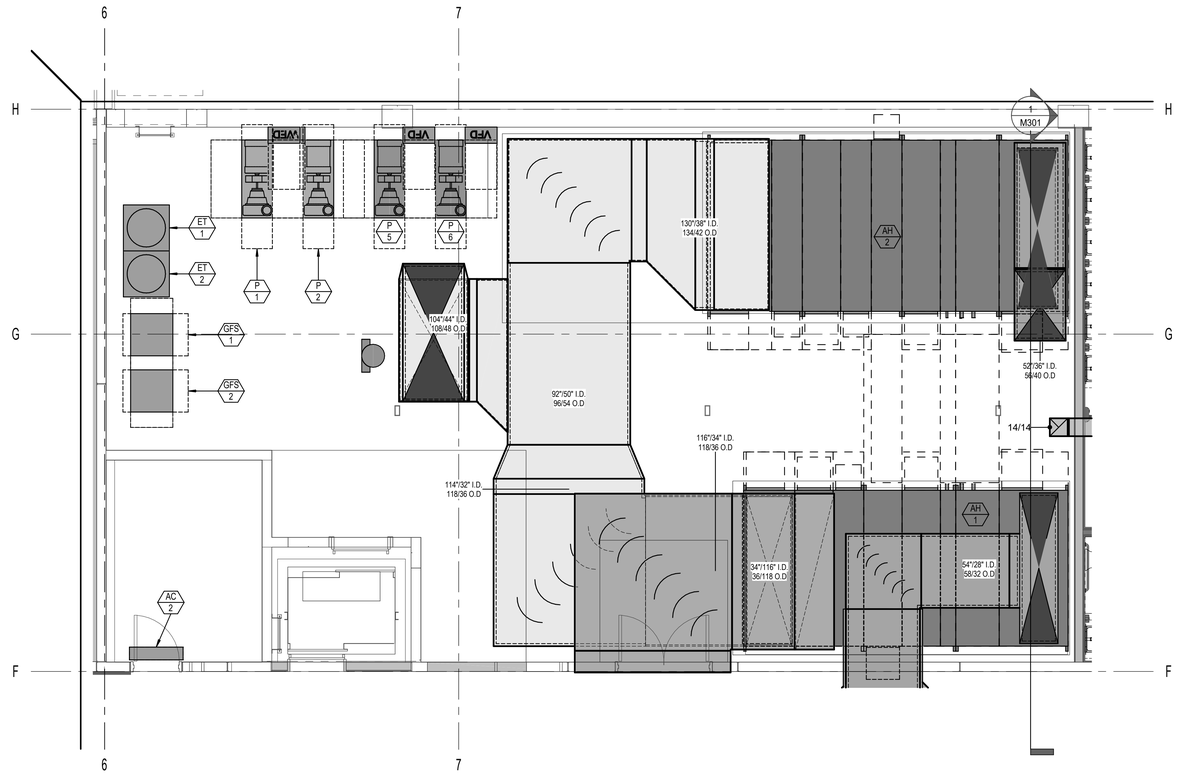
	DATE	REVISION
1	04/08/2025	ADDENDUM 3

MAIN LEVEL MECHANICAL PIPING PLAN - AREA 'B'

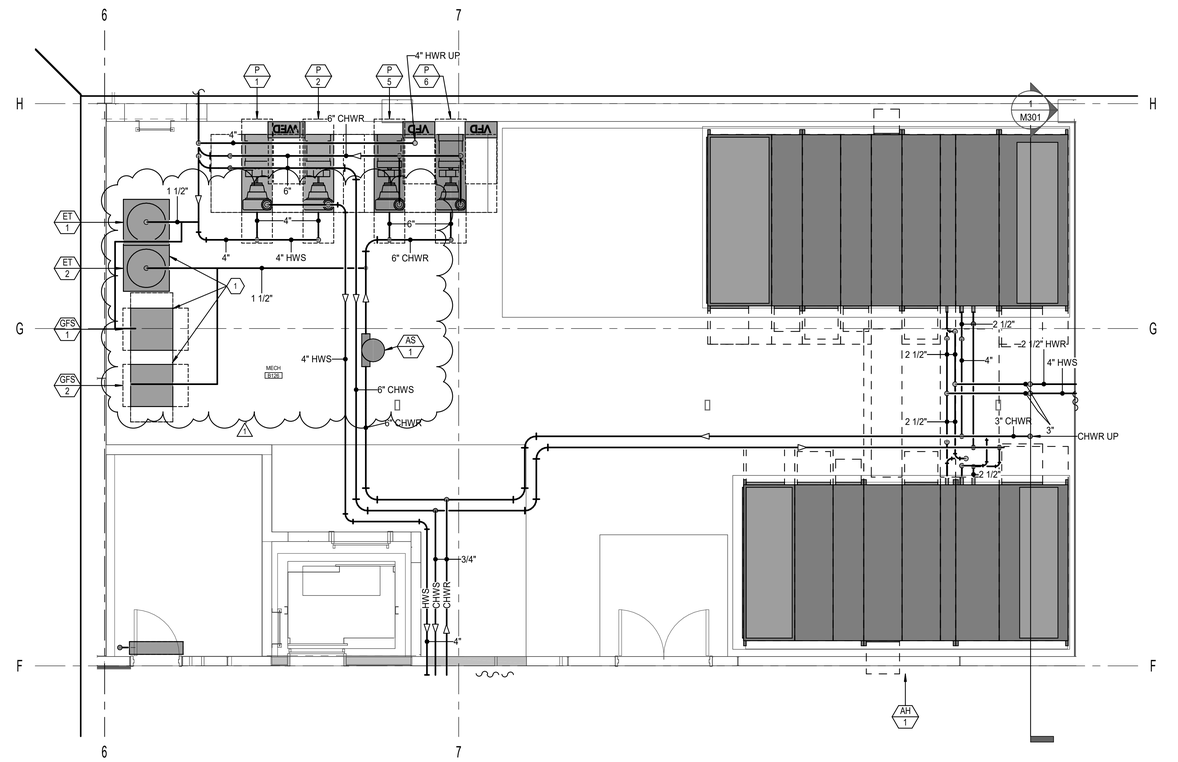
MP101B

KEYED NOTES

1. ALL EQUIPMENT IN MECHANICAL ROOM TO BE INSTALLED ON 6" HOUSEKEEPING PADS.
2. 52"/60" DUCT WITH 1 INCH LINING SHALL BE CONNECTED TO THE BOTTOM OF SHAFTS ON THE SECOND FLOOR.



2 M402 LEVEL 01 MECHANICAL PLAN B126
1/4" = 1'-0"



1 M402 LEVEL 01 MECHANICAL PIPING PLAN B126
1/4" = 1'-0"

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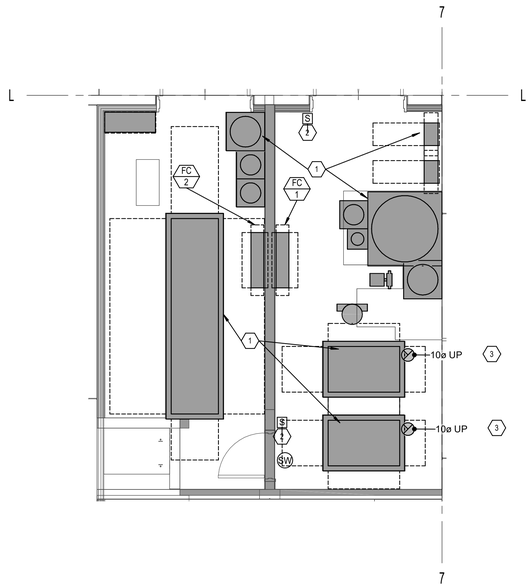
LARGE SCALE MECHANICAL ROOM B126

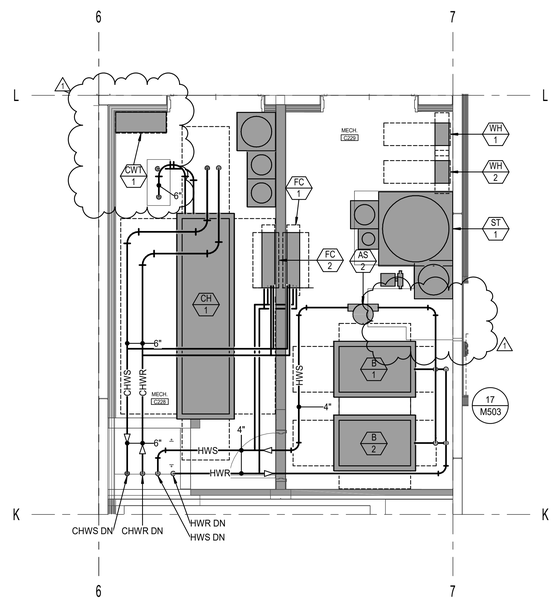
M402

KEYED NOTES

1. ALL EQUIPMENT IN MECHANICAL ROOM TO BE INSTALLED ON 6" HOUSEKEEPING PADS.
2. EMERGENCY BOILER ROOM SHUTDOWN SWITCH. SWITCH SHALL BE INTERLOCKED WITH ALL GAS FIRED EQUIPMENT IN BOILER ROOM FOR SHUTDOWN. PROVIDE LIFT OPEN CLEAR COVER.
3. 10" BOILER FLUE THRU ROOF.



2 M403 LEVEL 02 MECHANICAL PLAN C228/C229
1/4" = 1'-0"



1 M403 LEVEL 02 MECHANICAL PIPING PLAN C228/C229
1/4" = 1'-0"

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SCHOOL DISTRICT

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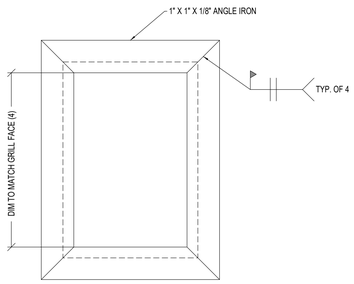
REGISTERED PROFESSIONAL ENGINEER
No. 8388845-2202
JEDEDIAH L. JENKINS
STATE OF UTAH

△	DATE	REVISION
1	04/08/2025	ADDENDUM 3

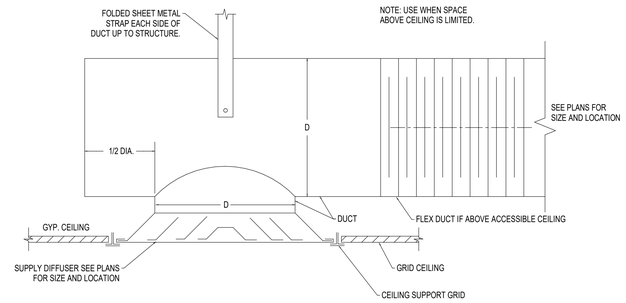
LARGE SCALE MECHANICAL ROOM C228/C229

M403

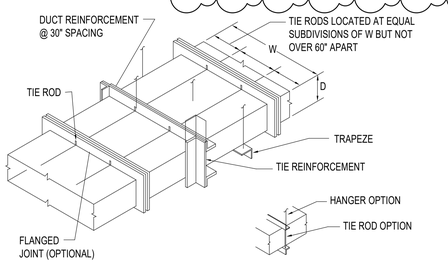


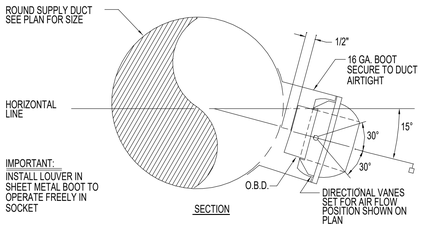
14 M502 DUCT MOUNTED WELDED BOX DETAIL
NO SCALE

13 M502 NOT USED
NO SCALE

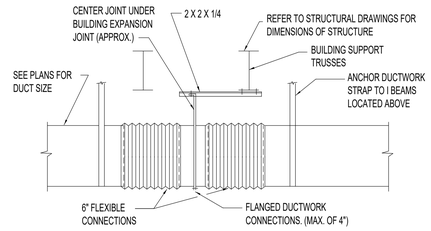


12 M502 TIGHT SPACE SUPPLY DIFFUSER DETAIL
NO SCALE

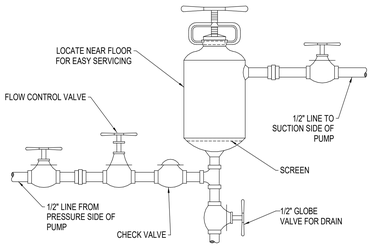




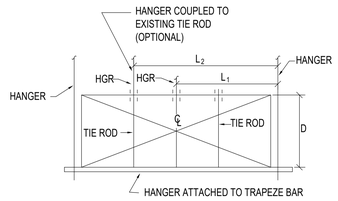
9 M502 DRUM LOUVER DETAIL
NO SCALE



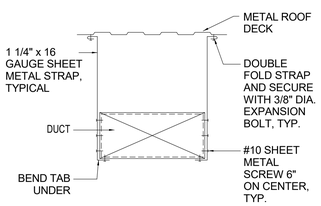
8 M502 DUCT EXPANSION JOINT DETAIL
NO SCALE



11 M502 POT TYPE CHEMICAL FEEDER DETAIL
NO SCALE

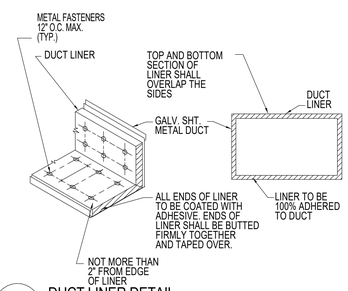


10 M502 LARGE DUCT REINFORCEMENT DETAIL
NO SCALE

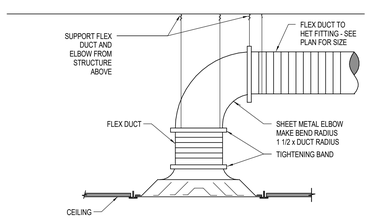


NOTE:
USE SPECIFIED SPACING AND NOT LESS THAN ONE SUPPORT PER BRANCH.

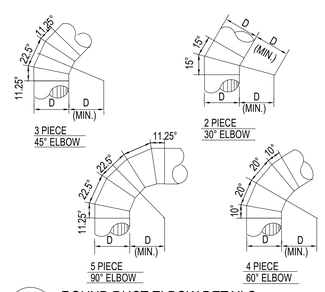
7 M502 RECTANGULAR DUCT SUPPORT
NO SCALE



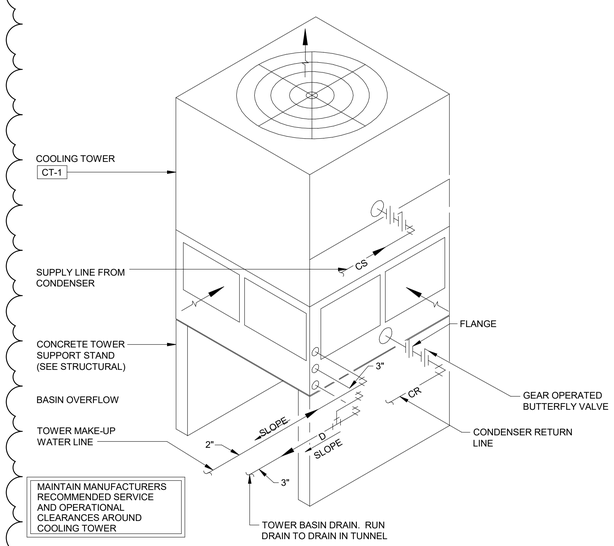
6 M502 DUCT LINER DETAIL
NO SCALE



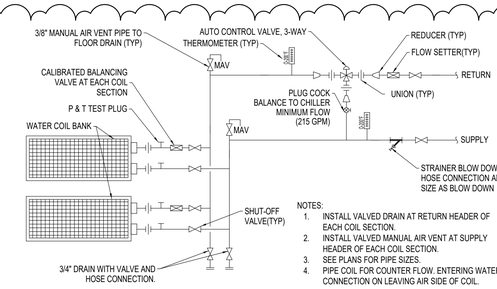
4 M502 DIFFUSER CONNECTION DETAIL
NO SCALE



3 M502 ROUND DUCT ELBOW DETAILS
NO SCALE

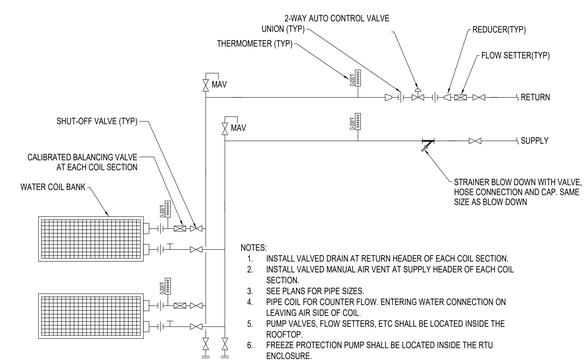


2 M502 COOLING TOWER DETAIL
NO SCALE



NOTES:
1. INSTALL VALVED DRAIN AT RETURN HEADER OF EACH COIL SECTION.
2. INSTALL VALVED MANUAL AIR VENT AT SUPPLY HEADER OF EACH COIL SECTION.
3. SEE PLANS FOR PIPE SIZES.
4. PIPE COIL FOR COUNTER FLOW. ENTERING WATER CONNECTION ON LEAVING AIR SIDE OF COIL.

5 M502 3-WAY PRE-HEAT COIL (HC-AH-2) & CHILLED WATER COOLING COIL (CC-RTU-3) SCHEMATIC
NO SCALE



NOTES:
1. INSTALL VALVED DRAIN AT RETURN HEADER OF EACH COIL SECTION.
2. INSTALL VALVED MANUAL AIR VENT AT SUPPLY HEADER OF EACH COIL SECTION.
3. SEE PLANS FOR PIPE SIZES.
4. PIPE COIL FOR COUNTER FLOW. ENTERING WATER CONNECTION ON LEAVING AIR SIDE OF COIL.
5. PUMP VALVES, FLOW SETTERS, ETC SHALL BE LOCATED INSIDE THE ROOFTOP.
6. FREEZE PROTECTION PUMP SHALL BE LOCATED INSIDE THE RTU ENCLOSURE.

1 M502 2-WAY PRE-HEAT COIL, CHILLED WATER COIL, HC-AH-1, HC-RTU-3, CC-AH-1, CC-AH-2 SCHEMATIC
NO SCALE

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LICENSED PROFESSIONAL ENGINEER
No. 8388845-2202
JEDEDIAH L. JENKINS
STATE OF UTAH

	DATE	REVISION
1	04/08/2025	ADDENDUM 3

MECHANICAL DETAILS

M502

AIR HANDLER SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	AREA SERVED	AIR COMPONENTS: SUPPLY AIRFLOW (CFM)	FANS	COILS	ELECTRICAL: LIGHTING AND OUTLET VOLT/PH/HZ	PHYSICAL: CABINET LENGTH/ WIDTH/HEIGHT (IN)	WEIGHT (LB)	NOTES
AH-1	DAIKIN	LEVEL 1	24000	SF-AH-1	CC-AH-1, HC-AH-1	120/1/60	254/122/88	8271	1,2,3,5
AH-2	DAIKIN	LEVEL 2	33400	SF-AH-2	CC-AH-2, HC-AH-2	120/1/60	282/134/94	10387	1,2,3,5
RTU-3	DAIKIN	MULTIPURPOSE	21435	SF-RTU-3, RF-RTU-3	CC-RTU-3, HC-RTU-3	120/1/60	360/106/78	10136	1,2,3,4,5

1. UNIT COMPLETE WITH 2" FILTERS.
2. UNIT COMPLETE WITH EBTRON AIR FLOW MEASURING STATION ON THE OUTSIDE AIR INLET.
3. UNIT COMPLETE WITH UL 268A DUCT SMOKE DETECTOR FOR AUTOMATIC SHUTDOWN ON THE RETURN AIR INLET.
4. UNIT COMPLETE WITH 20" SEISMIC CURB.
5. SINGLE POINT POWER CONNECTION.

MAKE-UP AIR HANDLER UNIT SCHEDULE

ID	MANUFACTURER	MODEL NO	LOCATION	OUTSIDE AIR FLOW RATE (CFM)	EXTERNAL STATIC PRESSURE DROP (IN H20)	HEATING: ENTER/ LEAVING AIR TEMP. DB (DEG. F)	INPUT HEATING LOAD (MBH)	OUTPUT HEATING LOAD (MBH)	FUEL TYPE	MAX DIMENSIONS L x W x H (IN)	MAX OPERATING WEIGHT (LBS)	EVAP COOLER	MOTOR: HP	MOTOR: VOLT/PH/HZ	NOTES
MAU-1	GREENHECK	IGX-P122-H12-MF	KITCHEN	2250	0.75	-20	205.5	166.5	NAT GAS	124 X 44 X 39	1221	YES	1	460/3/60	(1)(2)(3)(4)(5)(6)
MAU-2	GREENHECK	IGX-P115-H12-MF	KITCHEN	2430	0.75	-20	205.5	166.5	NAT GAS	124 X 44 X 39	1221	YES	1	460/3/60	(1)(2)(3)(4)(5)(6)

(1) ALL CAPACITIES BASED AT 4,800 FEET ELEVATION.
(2) UNIT COMPLETE WITH 18" SPRING VIBRATION ISOLATED ROOF CURB. MATCH ROOF CURB TO SUPPORT UNIT.
(3) SUPPLIED WITH VENT CAP AND COMBUSTION AIR OPENING.
(4) INTERLOCK UNIT WITH KITCHEN HOOD CONTROL PANEL, DIV. 26.
(5) EQUIPPED WITH FACTORY MOUNTED STARTER & DISCONNECT.
(6) TYPE UNIT: 100% OUTSIDE AIR ROOFTOP MAKE-UP AIR HANDLING UNIT, COMPLETE WITH THE FOLLOWING OPTIONS:
A) DOWN DISCHARGE PLENUM.
B) STAINLESS STEEL HEAT EXCHANGER.
C) MODULATING GAS VALVE DOWN TO 30% AND DUCT TEMPERATURE SENSOR. SET TEMPERATURE SENSOR AT 65 DEG-F LEAVING AIR TEMPERATURE.
D) EVAPORATIVE COOLER TO BLOWER FAN TRANSITION.
E) FACTORY MOUNTED DISCONNECT.

AIR SEPARATOR SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	TYPE	FLUID: FLOW (GPM)	WORKING FLUID	HEAD LOSS (FT)	SYSTEM PRESSURE (PSIG)	PHYSICAL: DIA./ HEIGHT (IN)	NOTES
AS-1	SPIROTHERM VHN600	MECH C228	HIGH VELOCITY, AIR/DIRT	435	30% P GLY	3	60	12.8/61.8	1
AS-2	SPIROTHERM VHN400	MECH C229	HIGH VELOCITY, AIR/DIRT	249	30% P GLY	3	60	8.6/20.7	1

1. ASME CERTIFIED

HYDRONIC BOILER SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	TYPE	FUEL TYPE	INPUT LOAD (BTUH)	INPUT FLOW (CFH)	OUTPUT LOAD (BTUH)	FLUID: FLOW RATE (GPM)	ENTERING/ LEAVING TEMP. (°F)	WORKING FLUID	HEAD LOSS (FT)	ELECTRICAL: MOTOR QUAN.	MOTOR SIZE (HP)	MOTOR VOLT/PH/HZ	MOCP	CONTROL CIRCUIT VOLT/PH/HZ	PHYSICAL: STACK DIAMETER (IN)	LENGTH/ WIDTH/ HEIGHT (IN)	NOTES
B-1	CLEAVER-BROOKS CFC-E 2000	MECH C229	COND, FORCED	NAT GAS	2000000	2273	1760000	155	160/136	30% P GLY	5	1	3	120/1/60	20	120/1/60	8	56/35.7/79.8	1,2,3
B-2	CLEAVER-BROOKS CFC-E 2000	MECH C229	COND, FORCED	NAT GAS	2000000	2273	1760000	155	160/136	30% P GLY	5	1	3	120/1/60	20	120/1/60	8	56/35.7/79.8	1,2,3

1. ASME CERTIFIED
2. 10 TO 1 TURNDOWN.
3. PROVIDE EMERGENCY BOILER SHUT DOWN SWITCH PER SPECIFICATIONS.

CHEMICAL FEED SYSTEM SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	TYPE	FLUID: WORKING FLUID	TOTAL VOLUME (GAL)	STATIC FILL PRESSURE (PSIG)	PRESSURE RATING (PSIG)	ELECTRICAL: VOLT/PH/HZ	ALARM PANEL	NPT FITTING (IN)	TANK SIZE (GAL)	NOTES
CWT-1	WEST WATER TREATMENT	MECH C228	CHEMICAL FEEDER	WATER	800	4	0	120/1/60	——	1	20	1-3

1. PROVIDE THREE DOUBLE WALL CONTAINMENT POLY TANKS: (1) SCALE INHIBITOR, (2) BIOCIDE, ONE INJECTION PUMP PER TANK MOUNTED ON SS SHELF ABOVE TANKS
2. WALL MOUNTED CONTROLLER. SOLIDS SEPARATOR BLOW DOWN SHALL BE CONTROLLED BY TOWER TREATMENT CONTROLLER
3. ESTIMATED WEIGHT: 50 LBS

WATER-COOLED CHILLER SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	TYPE	REFRIG.	LOAD (TONS)	FLUID: DESCRIPTION	FLOW RATE (GPM)	ENTERING/ LEAVING TEMP. (°F)	WORKING FLUID	HEAD LOSS (FT)	ELECTRICAL: MAX KW	TOTAL MCA	TOTAL MOCP	MAXIMUM UNIT EFFICIENCY (KW/TON)	EFFICIENCY RATING	CHILLER AND CONTROL CIRCUIT VOLT/PH/HZ	PHYSICAL: LENGTH/ WIDTH/ HEIGHT (IN)	NOTES
CH-1	CARRIER 30HXC206	MECH C228	SCREW	RS13A	205.3	EVAPORATOR	516.2	54/44	30% P GLY	19.8	134.4	268.8	350	0.6545	0.58040 (NPLV)	460/3/60 - 120/1/60	158/52/100	1-4
						CONDENSER	580.8	80/90	WATER	20.3								

1. WITH FACTORY SOUND ATTENUATION, STARTER AND DISCONNECT
2. UNIT WITH MODULATION CAPACITY DOWN TO 15% OF MAXIMUM LOAD AND RUN AT 55 CHWS AND 59 CHWR
3. UNIT WITH FACTORY VSD/DISCONNECT, FILTER, BACNET NETWORK INTERFACE CARD
4. MINIMUM EVAPORATOR FLOW = GPM, CONDENSER = GPM.

AIR HANDLER HYDRONIC COIL SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	USAGE	AIR: AIRFLOW RATE (CFM)	LOAD (BTUH)	SENSIBLE LOAD (BTUH)	ENTERING TEMP. DB/WB (°F)	LEAVING TEMP. DB/WB (°F)	STATIC PRESSURE (IN. H2O)	HYDRONIC: FLOW RATE (GPM)	ENTERING/ LEAVING TEMP. (°F)	WORKING FLUID	HEAD LOSS (FT)	PHYSICAL: NO. COILS	MINIMUM FACE AREA (FT²)	MINIMUM NO. ROWS/ FINS PER INCH	NOTES
CC-AH-1	DAIKIN	AH-1	COOLING	24000	569695	562172	80.6/61.5	55.25/2.6	0.45	101.0	42/53.8	30% P GLY	10.2	2	54.5	8/7	
CC-AH-2	DAIKIN	AH-2	COOLING	33400	752967	734681	78.8/61	54.8/52.5	0.58	126.0	42/54.5	30% P GLY	14.5	2	65.54	8/7	
CC-RTU-3	DAIKIN	RTU-3	COOLING	21435	569321	534302	82.0/62.9	54.8/53.2	0.78	100.0	42/53.9	30% P GLY	15.9	2	42.62	6/8	
HC-AH-1	DAIKIN	AH-1	HEATING	24000	945406	945406	24.1	67.1	0.1	48.0	160/118.6	30% P GLY	5.00	2	53	2/6	
HC-AH-2	DAIKIN	AH-2	HEATING	33400	822084	822084	-11.7	71	0.21	40.5	160/117.3	30% P GLY	3.40	2	63.92	1/13	
HC-RTU-3	DAIKIN	RTU-3	HEATING	21435	1017056	1017056	38.4	90.2	0.21	53.2	160/119.8	30% P GLY	6.20	2	41.25	2/12	

CONDENSATE NEUTRALIZER SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	QTY	TYPE	CONDENSATE DEVICE: INPUT LOAD (BTUH)	EFFICIENCY (%)	PHYSICAL: LENGTH/ WIDTH/ HEIGHT (IN)	NPT FITTING (IN)	NOTES
CN-1	AXIOM N725	BOILER ROOM D135	1	STANDARD	5000000	96	17.5/13.5/8	1	
CN-2	AXIOM N725	BOILER ROOM D135	1	STANDARD	5000000	96	17.5/13.5/8	1	

COOLING TOWER SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	TYPE	FAN AIRFLOW (CFM)	AMBIENT TEMP. DB/WB (°F)	FLUID: FLOW RATE (GPM)	ENTERING/ LEAVING TEMP. (°F)	WORKING FLUID	INLET/ OUTLET HEAD LOSS (FT)	ELECTRICAL, FAN: MOTOR QUAN.	MOTOR SIZE (HP)	MOTOR SPEED (RPM)	TOWER AND CONTROL CIRCUIT VOLT/PH/HZ	PHYSICAL: OPERATING WEIGHT (LB)	LENGTH/ WIDTH/ HEIGHT (IN)	NOTES
CT-1	EVAPCO AT 19-3H8-FM	MECH. YARD	OPEN, COUNTERFLOW, AXIAL	35100	95/67	600	90/80	WATER	5	1	7.5	1750	460/3/60 - 120/1/60	6240	90/101.5/140.4	1-7

1. UNIT PROVIDED WITH LOW SOUND FAN.
2. BASIN SHALL BE ALL 304 STAINLESS STEEL CONSTRUCTION.
3. PROVIDE BASIN PLATFORM, LADDERS, LADDER EXTENSIONS AS REQUIRED.
4. PROVIDE WITH VIBRATION SWITCHES.
5. UNIT COMPLETE WITH A 10 KW, 480V/3PH SUMP HEATER. PROVIDE TRANSFORMER FOR A CONTROL CIRCUIT AT 120V/1PH.
6. TOWER SITS ON SUPPORT. SEE STRUCTURAL DRAWINGS.
7. UNIT COMPLETE WITH SUMP SWEEPER PIPING, MINIMUM SWEEPER FLOW RATE 59 GPM AT 20 PSI.

HOT WATER UNIT HEATER SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	FAN SPEED SETTING	USE TYPE	AIR: AIRFLOW RATE (CFM)	LOAD (BTUH)	ENTERING TEMP. DB (°F)	LEAVING TEMP. DB (°F)	FLUID: FLOW RATE (GPM)	ENTERING/ LEAVING TEMP. (°F)	WORKING FLUID	HEAD LOSS (FT)	ELECTRICAL: MOTOR SIZE (HP)	TOTAL MOTOR AMPS	MOTOR SPEED (RPM)	VOLT/PH	PHYSICAL: FINS/INCH	NOTES
UH-1	RITTLING RH-18	EX STORAGE C230	LOW	HEATING	400	7,200	60	76.3	0.7	160/140	30% P GLY	0.2	1/30	0.7	-	120/1	12	1,2
UH-2	RITTLING RH-18	RECEIVING C233	LOW	HEATING	310	5,900	60	77.2	0.6	160/140	30% P GLY	0.1	1/30	0.7	-	120/1	12	1,2
UH-3	RITTLING RH-18	FIRE RISER B138	LOW	HEATING	400	7,200	60	76.3	0.7	160/140	30% P GLY	0.2	1/30	0.7	-	120/1	12	1,2

1. UNIT PROVIDED WITH TWO SPEED MOTOR.
2. UNIT PROVIDED WITH FACTORY DISCONNECT, STARTER AND INTEGRAL THERMOSTAT.

GRILLES, REGISTERS AND DIFFUSERS

ID	MANUFACTURER	MODEL	MAX NC	DESCRIPTION
CD-1	PRICE	SPD	30	SQUARE PLAQUE FACE CEILING DIFFUSERS. REMOVABLE FACE. FRAME SHALL BE FOR SURFACE OR LAY-IN MOUNTING AS REQUIRED BY CEILING TYPE. LAY-IN FRAMES SHALL BE 24" x 24" OR 12" x 12" AS REQUIRED TO FIT CEILING TILE SPACE AVAILABLE. COLOR AND FINISH AS SELECTED BY ARCHITECT FROM STANDARD COLORS
CD-2	PRICE	SDS 100	30	2 SLOT LINEAR CEILING DIFFUSER WITH FULLY ADJUSTABLE AIR PATTERN AND FLOW CONTROL VANES FOR ONE OR TWO WAY THROW PATTERN. UNITS SHALL HAVE 1" SLOTS AND INSULATED PLENUM WITH ROUND DUCT CONNECTION. FOR SURFACE OR LAY-IN MOUNTING AS REQUIRED. UNIT SHALL BE CURVED FACE FOR EXPOSED DUCT MOUNTING AS REQUIRED.
CD-3	PRICE	SDS 100	30	3 SLOT LINEAR CEILING DIFFUSER WITH FULLY ADJUSTABLE AIR PATTERN AND FLOW CONTROL VANES FOR ONE OR TWO WAY THROW PATTERN. UNITS SHALL HAVE 1" SLOTS AND INSULATED PLENUM WITH ROUND DUCT CONNECTION. FOR SURFACE OR LAY-IN MOUNTING AS REQUIRED. UNIT SHALL BE CURVED FACE FOR EXPOSED DUCT MOUNTING AS REQUIRED.
CD-4	PRICE	SDS 100	30	4 SLOT LINEAR CEILING DIFFUSER WITH FULLY ADJUSTABLE AIR PATTERN AND FLOW CONTROL VANES FOR ONE OR TWO WAY THROW PATTERN. UNITS SHALL HAVE 1" SLOTS AND INSULATED PLENUM WITH ROUND DUCT CONNECTION. FOR SURFACE OR LAY-IN MOUNTING AS REQUIRED. UNIT SHALL BE CURVED FACE FOR EXPOSED DUCT MOUNTING AS REQUIRED.
DL-1	PRICE	HCD1	25	DRUM LOUVER SUPPLY GRILLE WITH ROTATABLE DRUM HAVING MECHANISM TO FIX DRUM ANGLE. VARIABLE VOLUME. STEEL FRAME. ALUMINUM VANES AND DRUM. MOUNTING FRAME C/W COUNTER SUNK HOLES FOR DUCT MOUNTING. ADJUSTABLE THROUGH 60 DEGREES. 30" X 8" 525 - 700 CFM.
DB-1	IN-O-VATE	425THD	-	MODEL 425 ALUMINUM RECESSED DRYER VENT BOX.
DV-1	SEIHO SFZ 4	--		EXTERNAL DRYER VENT, ALL ALUMINUM CONSTRUCTION, CLEAR ANODIZED FINISH.
RG-1	PRICE	PDDR	30	PERFORATED FACE RETURN AIR UNIT, REMOVABLE FACE & CORE. FRAME SHALL BE FOR SURFACE OR LAY-IN MOUNTING AS REQUIRED BY CEILING TYPE. LAY-IN FRAMES SHALL BE 24" x 24", 24" x 12" OR 12" x 12" AS REQUIRED TO FIT CEILING TILE SPACE AVAILABLE. AIR QUANTITY SHALL MATCH ROOM SUPPLY OR EXHAUST AIR QUANTITY. COLOR AND FINISH AS SELECTED BY ARCHITECT.
RG-2	PRICE	90	30	HEAVY DUTY RETURN GYM GRILLE. PERFORATED FACE RETURN AIR UNIT. REMOVABLE FACE & CORE. FRAME SHALL BE FOR SURFACE OR LAY-IN MOUNTING AS REQUIRED BY CEILING TYPE. STEEL OPPOSED BLADE DAMPER. INCLUDING 30° BLADE DEFLECTION.
EG-1	PRICE	80	30	CRATE TYPE CEILING EXHAUST AIR UNIT. WITH OBD. REMOVABLE FACE AND CORE. FRAME SHALL BE FOR SURFACE OR LAY-IN MOUNTING AS REQUIRED BY CEILING TYPE. LAY-IN FRAMES SHALL BE 24" x 24", 24" x 12" OR 12" x 12" AS REQUIRED TO FIT CEILING TILE SPACE AVAILABLE. UNITS SHALL HAVE 1/2" x 1/2" x 1/2" SQUARES.
SWE-1	PRICE	535	30	SIDEWALL RETURN AIR GRILLE. HORIZONTAL STATIONARY 45° DEFLECTION VANES SET ON 1/2 INCH CENTER. COLOR AND FINISH AS SELECTED BY ARCHITECT.
SWR-1	PRICE	535	30	SIDEWALL RETURN AIR GRILLE. HORIZONTAL STATIONARY 45° DEFLECTION VANES SET ON 1/2 INCH CENTER. COLOR AND FINISH AS SELECTED BY ARCHITECT.
SWS-1	PRICE	520	30	DOUBLE DEFLECTION HIGH SIDEWALL SUPPLY REGISTER. VERTICAL FRONT WITH HORIZONTAL REAR DEFLECTION ADJUSTABLE VANES SPACED AT 3/4 INCH O.C. COMPLETE WITH OBD AND REMOVABLE CORE. COLOR AND FINISH AS SELECTED BY ARCHITECT.
SWS-2	PRICE	HCD1	30	DRUM LOUVER SUPPLY GRILLE WITH ROTATABLE DRUM HAVING MECHANISM TO FIX DRUM ANGLE. VARIABLE VOLUME. STEEL FRAME. ALUMINUM VANES AND DRUM. MOUNTING FRAME C/W COUNTER SUNK HOLES FOR DUCT MOUNTING. ADJUSTABLE THROUGH 60 DEGREES.

1. PROVIDE CD-1 FOR ALL CEILING SUPPLY DIFFUSERS UNLESS NOTED OTHERWISE.
2. PROVIDE RG-1 FOR ALL CEILING RETURN GRILLES UNLESS NOTED OTHERWISE.
3. PROVIDE EG-1 FOR ALL CEILING EXHAUST GRILLES UNLESS NOTED OTHERWISE.

EXPANSION TANK SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	TYPE	FLUID: WORKING FLUID	MIN. TANK/ ACCEPTANCE VOLUME (GAL)	MINIMUM FILL PRESSURE (PSIG)	MAXIMUM WORKING PRESSURE (PSIG)	RELIEF VALVE PRESSURE (PSIG)	PHYSICAL: TANK SIZE (GAL)	DIA./ HEIGHT (IN)	NPT FITTING (IN)	NOTES
ET-1	TACO CA300-125	MECH C228	VERT. BLADDER, FULL	30% P GLY	64.3/33.8	19.2	54	60	79	24/59	1.5	1
ET-2	TACO CA600-125	MECH C229	VERT. BLADDER, FULL	30% P GLY	192.9/101.3	19.2	54	60	211	30/89	1.5	1

1. ASME CERTIFIED

FAN COIL SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	TYPE	AIR: MAXIMUM AIRFLOW RATE (CFM)	FAN: EXTERNAL STATIC PRESSURE (IN. H2O)	COILS: COOLING COIL MEDIUM	HEATING COIL MEDIUM	ELECTRICAL: TOTAL MCA	MOTOR QTY & SIZE (HP)	VOLT/PH/HZ	PHYSICAL: LENGTH/ WIDTH/ HEIGHT (IN)	NOTES
FC-1	IEC CXB08	MECH C228	HORIZONTAL, CABINET	800	0.15	HYDRONIC	HYDRONIC	2.5	1@0.167	120/1/60	43.3/17.5/10	
FC-2	IEC CXB08	MECH C228	HORIZONTAL, CABINET	800	0.15	HYDRONIC	HYDRONIC	2.5	1@0.167	120/1/60	43.3/17.5/10	
FC-3	WILLIAMS HHR-008	ENTRY B1	HP, HORIZONTAL	800	0.3	HYDRONIC	HYDRONIC	5	1@0.133	120/1/60	41/28/10	

FAN COIL, HYDRONIC COIL SCHEDULE

ID	USAGE	AIR: AIRFLOW RATE (CFM)	LOAD (BTUH)	SENSIBLE LOAD (BTUH)	ENTERING TEMP. DB/WB (°F)	LEAVING TEMP. DB/WB (°F)	HYDRONIC: FLOW RATE (GPM)	ENTERING/ LEAVING TEMP. (°F)	WORKING FLUID	PHYSICAL: HEAD LOSS (FT)	MINIMUM NO. ROWS/ FINS PER INCH	NOTES
FC-1	HEATING	640	25500	25500	60	98	1.75	160/140	30% P GLY	5		
	COOLING	640	18800	18800	75/60.7	56/54.2	2.2	44/52	30% P GLY	5	3/10	
FC-2	HEATING	640	25500	25500	60	98	1.7	160/140	30% P GLY	5		
	COOLING	640	18800	18800	75/60.7	56/54.2	2.1	44/52	30% P GLY	5	3/10	
FC-3	HEATING	310	9640	9640	65	93.4	0.6	160/126.4	30% P GLY	0.5	1/12	
	COOLING	600	17698	17698	80/62	53/51.5	3.5	45/55	30% P GLY	7	5/12	

EXHAUST AIR FAN SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	TYPE	AIR: MAXIMUM AIRFLOW RATE (CFM)	FAN: STATIC PRESSURE (IN. H2O)	FAN SPEED (RPM)	FAN WHEEL DIA. (IN)	STATIC EFF. (%)	ELECTRICAL: MOTOR SIZE (HP)	MOTOR BHP (HP)	VOLT/PH/HZ	PHYSICAL: LENGTH/ WIDTH/ HEIGHT (IN)	SONES	NOTES
EF-1	GREENHECK CUBE-180	KITCHEN	ROOF, UPBLAST, BELT DRIVE	2812	1	1166	18.5	56	1	0.87	115/1/60	30/30/49	14.4	1,7,8,9
EF-2	GREENHECK CUBE-180	KITCHEN	ROOF, UPBLAST, BELT DRIVE	3038	1	1198	18.5	55	1	0.96	115/1/60	30/30/49	15	1,7,8,9
EF-3	GREENHECK CUE-120-A	KITCHEN	ROOF, UPBLAST, DIRECT DRIVE	1200	1.16	1725	13.063	60	1/2	0.39	115/1/60	19/19/38	18.4	1,4,5,6,8,9
EF-4	GREENHECK G-090-D	ROOF	ROOF, DIRECT DRIVE	550	0.25	1550	10.875	42	1/15	0.06	115/1/60	17/17/27	7.4	1,2,3,6
EF-5	GREENHECK G-090-D	ROOF	ROOF, DIRECT DRIVE	550	0.12	1550	10.875	42	1/15	0.06	115/1/60	17/17/27	7.4	1,2,3,6
EF-6	GREENHECK GB-180	ROOF	ROOF, BELT DRIVE	2030	0.27	866	16.625	40	1/3	0.26	208/1/60	22/22/36	9.6	1,2,3,6
EF-7	GREENHECK CUE-070-VG	ROOF	ROOF, DIRECT DRIVE	75	0.13	962	8.125	41	1/15	-	115/1/60	17/17/28	0.5	1,2,3,6
EF-8	GREENHECK CUE-070-VG	ROOF	ROOF, DIRECT DRIVE	75	0.14	996	8.125	41	1/15	-	115/1/60	17/17/28	0.7	1,2,3,6
EF-9	GREENHECK G-070-VG	ROOF	ROOF, DIRECT DRIVE	150	0.14	1088	8.125	45	1/15	0.01	115/1/60	17/17/24	1.7	1,2,3,6
EF-10	GREENHECK GJ-80-G	ROOF	ROOF, DIRECT DRIVE	300	0.35	1300	10.875	48	0.04	0.04	115/1/60	22/22/27	5.6	1,2,3,6
EF-11	GREENHECK CSP-A700-VG	CEILING	INLINE, DIRECT DRIVE	14	0.11	665	7.75	20	0.03	0.03	115/1/60	12/12/24	0.3	1,2,3,6
RF-1	GREENHECK CUBE-480	ROOF	ROOF, UPBLAST, BELT DRIVE	14325	0.3	295	48.25	47	2	1.56	208/3/60	58/58/60	10.2	1,2,3,6,10
RF-2	GREENHECK CUBE-480	ROOF	ROOF, UPBLAST, BELT DRIVE	14325	0.3	295	48.25	47	2	1.56	208/3/60	58/58/60	10.2	1,2,3,6,10
RF-3	GREENHECK CUBE-480	ROOF	ROOF, UPBLAST, BELT DRIVE	14325	0.3	295	48.25	47	2	1.56	208/3/60	58/58/60	10.2	1,2,3,6,10
RF-4	GREENHECK CUBE-480	ROOF	ROOF, UPBLAST, BELT DRIVE	14325	0.3	295	48.25	47	2	1.56	208/3/60	58/58/60	10.2	1,2,3,6,10

1. ALL CAPACITIES AT 4800 FT ELEVATION.
2. ROOF MOUNTED EXHAUST FAN. COMPLETE WITH 14" PRE-FAB ROOF CURB, MOTORIZED BACKDRAFT DAMPER, BIRD SCREEN, & INTERNAL THERMAL OVERLOAD PROTECTION. DISCONNECT BY DIV. 26.
3. CONTROL: ATC
4. STATIC PRESSURE & AIRFLOW BASED ON PRELIMINARY DISHWASHER EXHAUST HOOD REQUIREMENTS OF 1050 CFM & 0.33" W.G. S.P. DUCT CONNECTION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE SUPPLIED HOOD EXHAUST AND PRESSURE REQUIREMENTS PRIOR TO SUBMITTING EXHAUST FAN FOR APPROVAL.
5. CONTROL: INTERLOCK WITH DISHWASHER BY DIV. 26.
6. INTERLOCK WITH MOTORIZED DAMPER.
7. ROOF MOUNTED KITCHEN GREASE HOOD EXHAUST FAN (UL-762 RATED); COMPLETE WITH HINGED PREFABRICATED ROOF CURB. FAN DISCHARGE TO BE 40 IN. MIN. FROM WALL, EXHAUST DUCT INSIDE CURB TO EXTEND 18 IN MIN ABOVE ROOF DECK, PROVIDE INTEGRAL OVERLOAD PROTECTION AND GREASE TERMINATOR KIT.
8. UNIT COMPLETE WITH CLEANOUT PORT, GREASE TRAP AND DRAIN CONNECTION, STARTER AND DISCONNECT.
9. HOOD EXHAUST: EXTERNAL STATIC PRESSURE LISTED IS BASED ON THE COORDINATED HOOD PRESSURE DROPS. HOOD PROVIDED BY OTHERS. CONTRACTOR SHALL COORDINATE ACTUAL AIRFLOW AND STATIC PRESSURE DROP. WITH KITCHEN SUPPLIER PRIOR TO SUBMITTING EXHAUST FAN FOR APPROVAL.
10. FAN SHALL BE CONTROLED BY A VFD. VFD BY DIV. 23.

HYDRONIC UNIT HEATER SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	TYPE	USAGE	AIR: AIRFLOW RATE (CFM)	LOAD (BTUH)	ENTERING TEMP. DB (°F)	LEAVING TEMP. DB (°F)	FLUID: FLOW RATE (GPM)	ENTERING/ LEAVING TEMP. (°F)	WORKING FLUID	HEAD LOSS (FT)	ELECTRICAL: MOTOR QUAN	MOTOR SIZE (HP)	VOLT/PH/HZ	PHYSICAL: MINIMUM NO. ROWS	NOTES
CUH-1	MODINE CW 006 98	ENTRY A1	CAB. WALL	HEATING	495	25700	50	107.7	2	160/134	30% P GLY	2	1	0.4	120/1/60	1	1,2
CUH-2	MODINE CW 006 58	ENTRY C2	CAB. CEILING, MS	HEATING	495	25700	50	107.7	2	160/134	30% P GLY	2	1	0.4	120/1/60	1	1,2

(1) UNIT COMPLETE WITH HIGH STATIC PSC MOTOR.

(2) UNIT COMPLETE WITH UNIT MOUNTED THERMOSTAT.

naylor wentworth lund
architects

CACHE COUNTY
SCHOOL DISTRICT

HYDE PARK ELEMENTARY SCHOOL
333 EAST 300 NORTH
HYDE PARK CITY, UT
84318

BID SET
DRAWING ISSUE 03/25/2025
ISSUE DATE 01/13/202
MNL PROJECT

LICENSED PROFESSIONAL ENGINEER
No. 8388845-2202
JEDEDIAH L. JENKINS
STATE OF UTAH

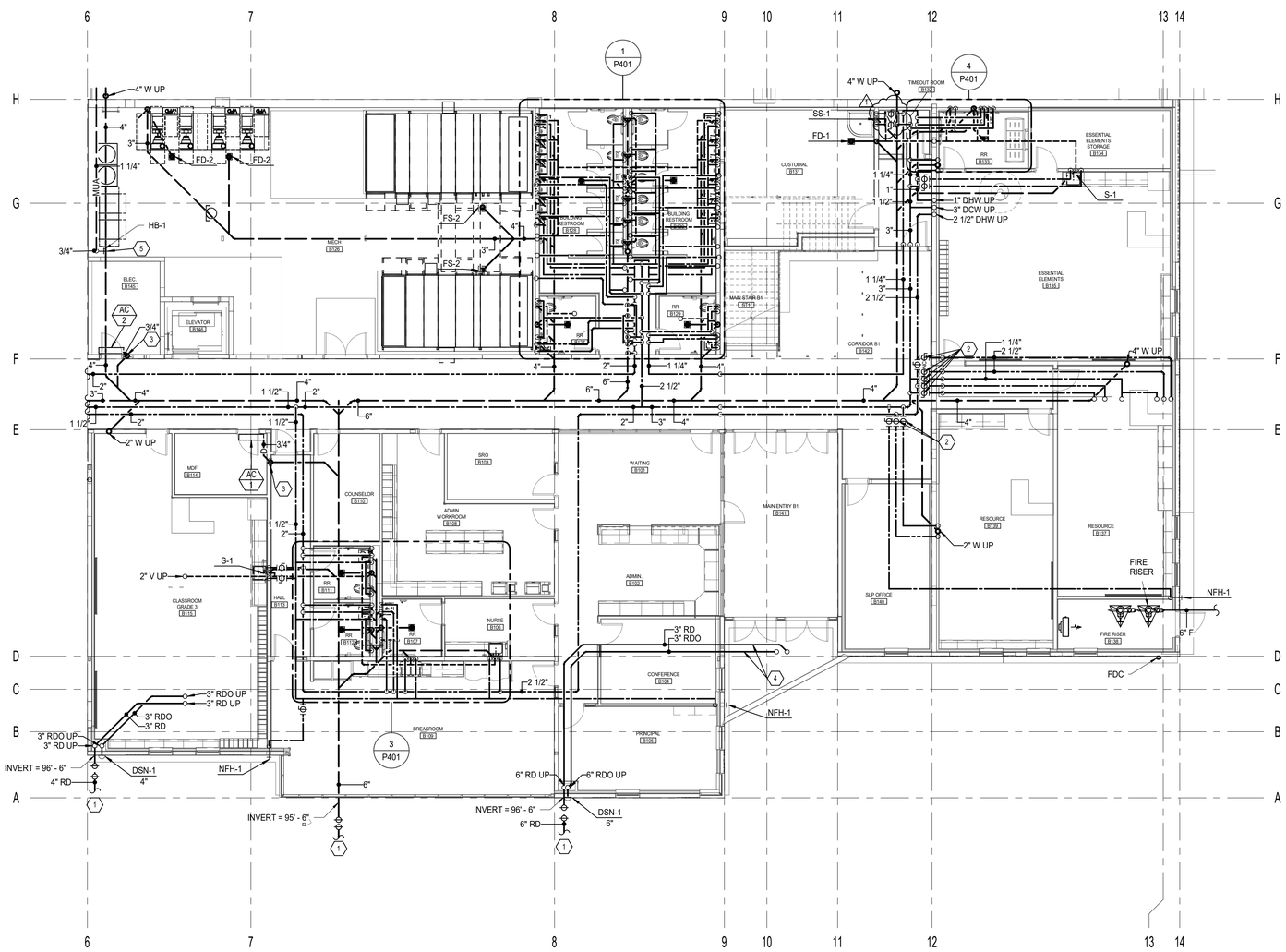
DATE	REVISION
1 04/08/2025	ADDENDUM 3

MECHANICAL SCHEDULES

M601

KEYED NOTES

1. SEE CIVIL PLANS FOR CONTINUATION.
2. DOMESTIC WATER SERVES FIXTURE ABOVE. TAG VALVE WITH ROOM NUMBER SERVED.
3. CONDENSATE DRAIN WALL BOX. SLOPE CONDENSATE DRAIN PIPING FROM EQUIPMENT TO WALL BOX. SEE DETAIL 4/P502.
4. HEAT TRACE RD AND RDO PIPING IN CANOPY. 5 WATTS PER LINEAL FOOT. APPROXIMATELY 80 WATTS.
5. LABLE HOSE CONNECTION AS NON-POTABLE.



1 P101B LEVEL 01 AREA 'B' PLUMBING PLAN
1/8" = 1'-0"

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CACHE COUNTY
SCHOOL DISTRICT

HYDE PARK ELEMENTARY SCHOOL
333 EAST 300 NORTH
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DRAWING ISSUE	BID SET
ISSUE DATE	03/25/2025
NWL PROJECT	0119.002

No. 8388645-2202
JEDEDIAH L. JENKINS
STATE OF UTAH

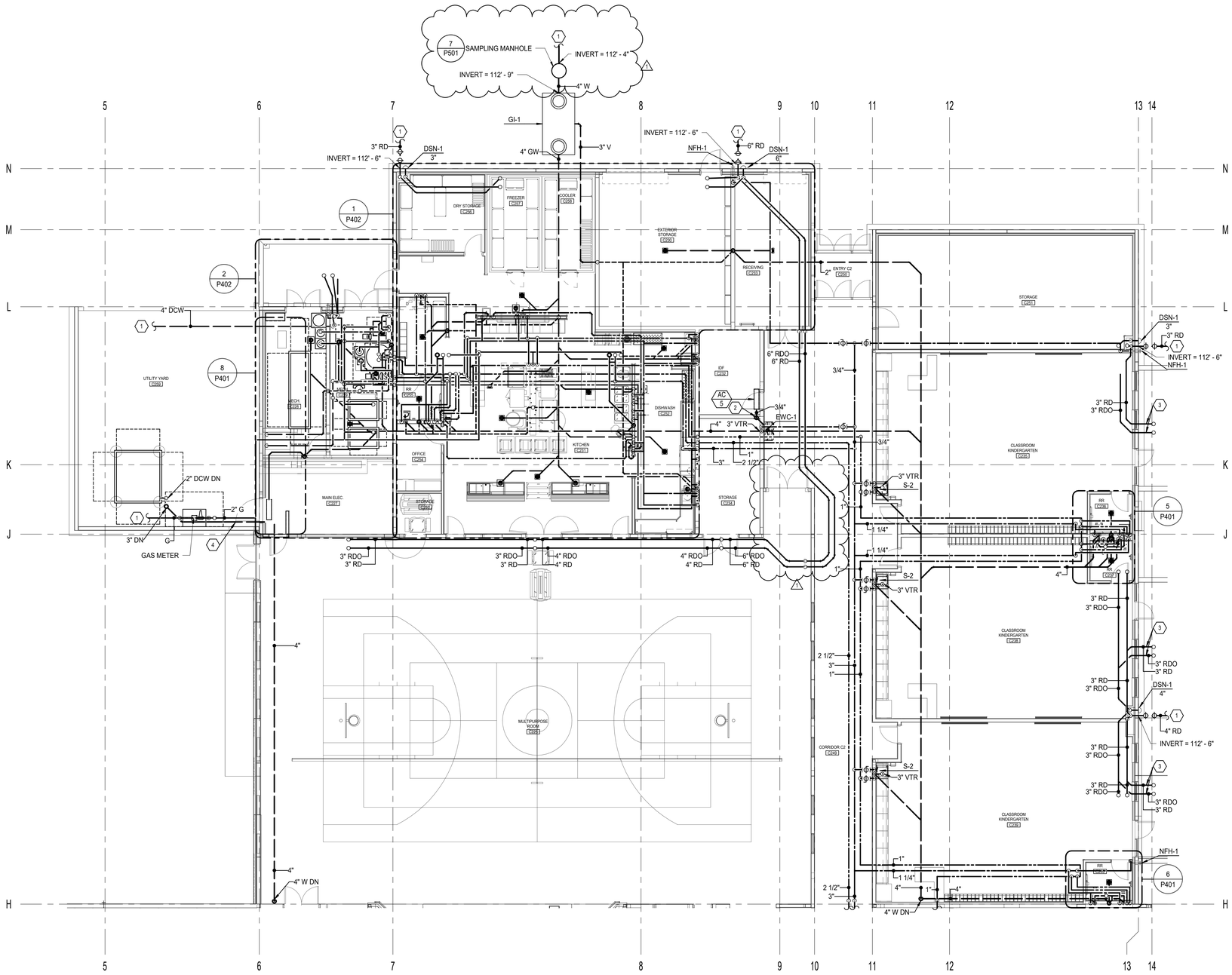
	DATE	REVISION
1	04/08/2025	ADDENDUM 3

MAIN LEVEL PLUMBING PLAN - AREA 'B'

P101B

KEYED NOTES

1. SEE CIVIL PLANS FOR CONTINUATION.
2. CONDENSATE DRAIN WALL BOX. SLOPE CONDENSATE DRAIN PIPING FROM EQUIPMENT TO WALL BOX. SEE DETAIL 4/P502.
3. HEAT TRACE RD AND RDO PIPING IN CANOPY. 5 WATTS PER LINEAL FOOT. APPROXIMATELY 35 WATTS.
4. 3" COOLING TOWER DRAIN BELOW GRADE. DISCHARGE INTO CATCH BASIN IN TUNNEL.



LEVEL 02 AREA 'C' PLUMBING PLAN
P102C 1/8" = 1'-0"

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LICENSED PROFESSIONAL ENGINEER
No. 8388645-2202
JEDEDIAH L. JENKINS
STATE OF UTAH

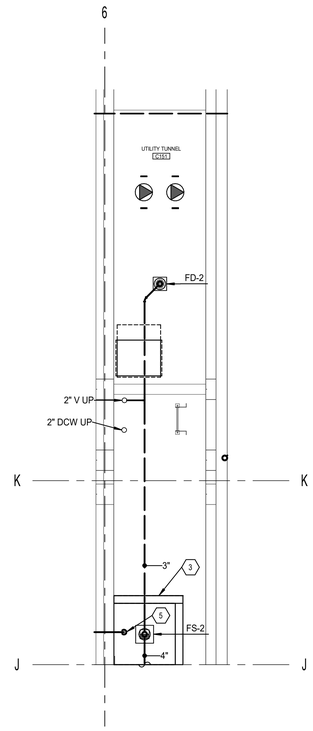
DATE	REVISION
1 04/08/2025	ADDENDUM 3

SECOND LEVEL PLUMBING PLAN - AREA 'C'

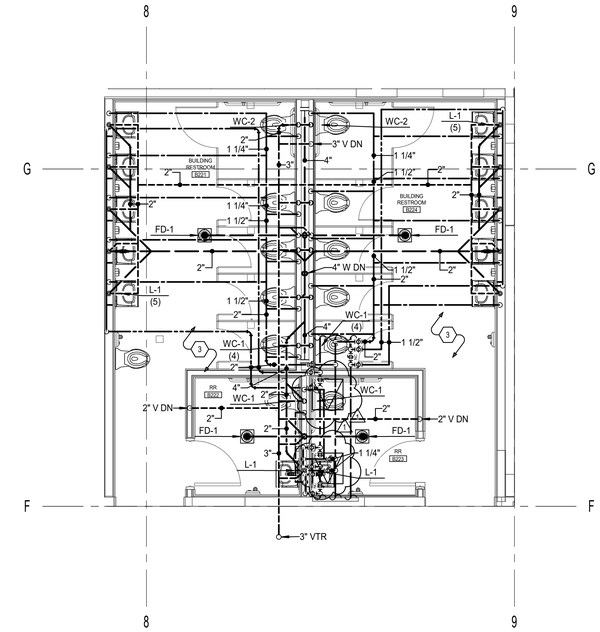
P102C

KEYED NOTES

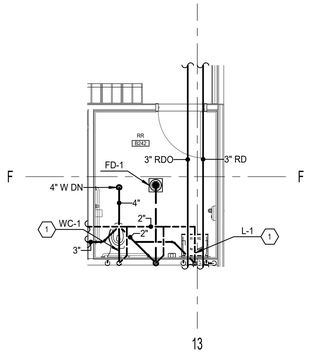
1. FIXTURE SERVED WITH DHW AND DCW FROM BELOW.
2. DOMESTIC WATER SERVES FIXTURE ABOVE. TAG VALVE WITH ROOM NUMBER SERVED.
3. DHW AND DCW MAINS AND BRANCH PIPING SHOWN IN VIEW EXIST IN THE LEVEL 1 CEILING SPACE. SEE PLAN BELOW FOR CONTINUATION.
4. DHW AND DCW UP TO SERVE FIXTURES ABOVE. SEE PLAN ABOVE FOR CONTINUATION.
5. DISCHARGE COOLING TOWER DRAIN INTO CATCH BASIN.



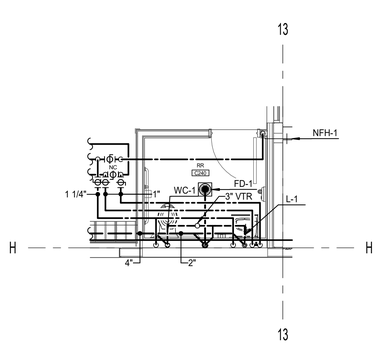
8 P401 TUNNEL PLUMBING PLAN
1/4" = 1'-0"



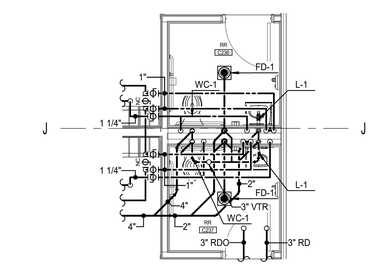
2 P401 BUILDING RESTROOM B221/B224 PLUMBING PLAN
1/4" = 1'-0"



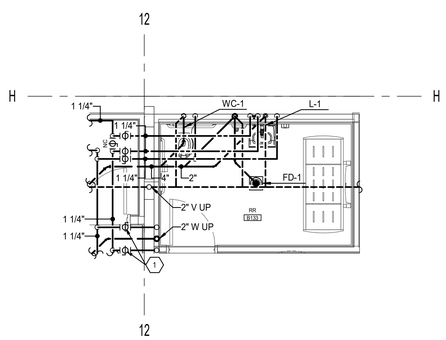
7 P401 RR B242 PLUMBING PLAN
1/4" = 1'-0"



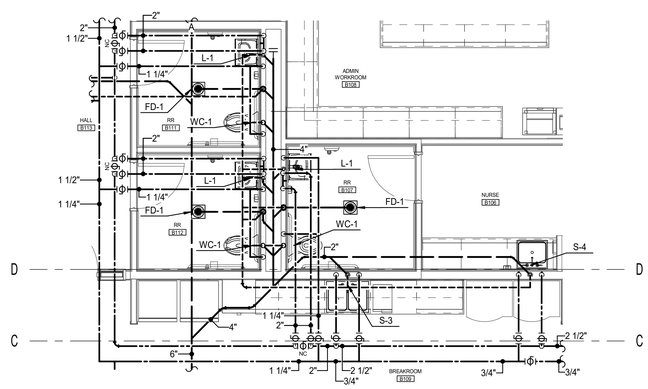
6 P401 RR A240 PLUMBING PLAN
1/4" = 1'-0"



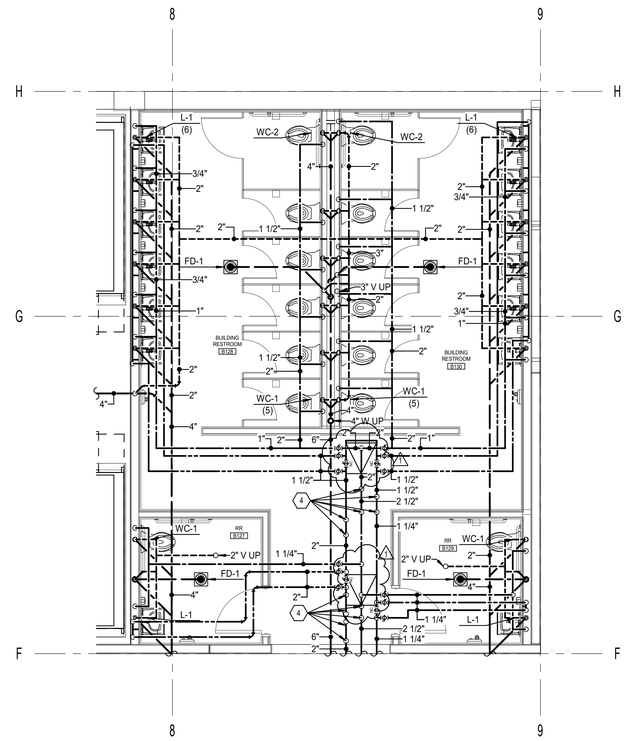
5 P401 RR A236/A237 PLUMBING PLAN
1/4" = 1'-0"



4 P401 RR B133 PLUMBING PLAN
1/4" = 1'-0"



3 P401 RR B107/B111/B112 PLUMBING PLAN
1/4" = 1'-0"



1 P401 BUILDING RESTROOM B128/B130 PLUMBING PLAN
1/4" = 1'-0"

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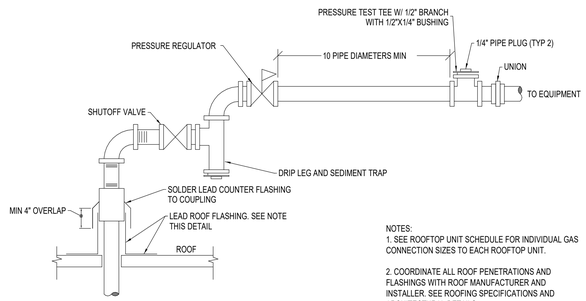
LARGE SCALE PLUMBING PLANS

P401

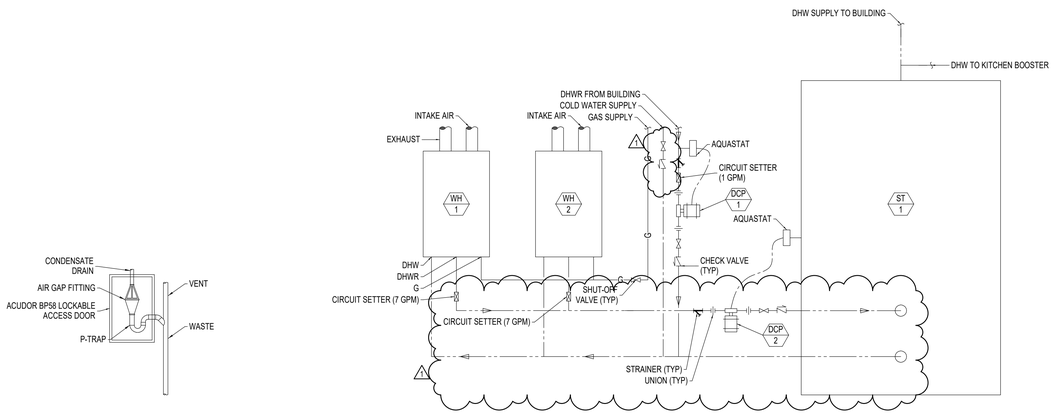


NOTES:
1. SEE ROOFTOP UNIT SCHEDULE FOR INDIVIDUAL GAS CONNECTION SIZES TO EACH ROOFTOP UNIT.

2. COORDINATE ALL ROOF PENETRATIONS AND FLASHINGS WITH ROOF MANUFACTURER AND INSTALLER. SEE ROOFING SPECIFICATIONS AND ARCHITECTURAL DETAILS.

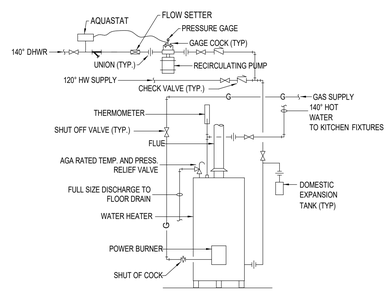
5 / P502 GAS PIPE ROOF PENETRATION

NO SCALE



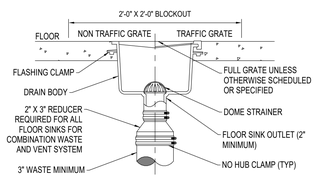
3 / P502 WATER HEATER PIPING DIAGRAM

NO SCALE



2 / P502 WATER HEATER PIPING DIAGRAM- KITCHEN BOOSTER

NO SCALE



1 / P502 FLOOR SINK

NO SCALE

4 / P502 CONDENSATE DRAIN DETAIL

NO SCALE

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STATE OF UTAH

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PLUMBING DETAILS

P502

DOMESTIC EXPANSION TANK SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	TYPE	FLUID WORKING FLUID	MIN. TANK/ ACCEPTANCE (GAL)	PHYSICAL TANK SIZE (GAL)	RELIEF VALVE (PSIG)	DIA./ HEIGHT (IN)	NPT FITTING (IN)	NOTES
DET-1	B&G PTA 30VC	MECH. ROOM	DIAPHRAGM	WATER	9	14	90	16/19	3/4	1,2
DET-2	B&G PTA 5C	MECH. ROOM	DIAPHRAGM	WATER	0.9	2.1	90	10/10	3/4	1,2

1. TANK LINER SUITABLE FOR POTABLE WATER
2. TANK SHALL BE ASME RATED.

DOMESTIC PUMP SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	SYSTEM	TYPE	FLUID FLOW RATE (GPM)	FLUID WORKING FLUID	PUMP HEAD LOSS (FT)	PUMP EFFICIENCY (%)	ELECTRICAL MOTOR SIZE (HP)	MOTOR FLA (AMPS)	MOTOR SPEED (RPM)	VOLT/PH/HZ	NOTES
DCP-1	B&G PL-36	MECH ROOM	DHWR	IN-LINE	2	WATER	15	NA	1/6	2.1	3300	115/1/60	
DCP-2	B&G PL-45	MECH ROOM	DHW	IN-LINE	10	WATER	17	NA	1/6	2.1	3300	115/1/60	
DCP-3	B&G PL-36	MECH ROOM	KITCHEN DHW	IN-LINE	1	WATER	13	NA	1/6	2.1	3300	115/1/60	

STORAGE TANK SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	WEIGHT (LBS)	CAPACITY (GAL)	WORKING PRESS. (PSI)	TANK SIZE D/H (IN)	NOTES
ST-1	BRADFORD WHITE NV650JS325A	MECH ROOM	1593	658	150	52/92	(1)

1. MOUNT ON 4" HIGH HOUSEKEEPING PAD.

NATURAL GAS REQUIREMENTS

EQUIP. NO.	QTY.	LOCATION	EQUIPMENT	EQUIP BTUH INPUT	TOTAL CFH
B-1, 2	2	MECH ROOM	HOT WATER BOILER	2,000,000	4545
WH-1	1	MECH ROOM	DOM. WATER HEATER	199,000	226
WH-2	1	MECH ROOM	DOM. WATER HEATER	199,000	226
WH-3	1	MECH ROOM	BOOSTER HEATER	76,000	86
MAU-1-2	2	KITCHEN	MAKE-UP AIR UNIT	205,500	467
KITCHEN EQUIPMENT	1	KITCHEN	KITCHEN EQUIPMENT	663,000	753
TOTAL (BTUH) =	5,548,000				
BTU/CU/BIC FT. =	880				
TOTAL CFH=	6305				

2 PSIG GAS METER WITH EARTHQUAKE VALVE ON CONCRETE PAD BY GAS SUPPLIER PAID FOR BY CONTRACTOR.

KITCHEN EQUIPMENT SCHEDULE

ITEM NO	QTY	Category	C/W size	H/W size	Direct Drain size	Indirect Drain size	Gas size	Gas MBTU	Plumbing Remarks
K1	1	SINK, TWO COMP				1-1/2"			
K1.1	1	WALL/SPLASH MOUNT FAUCET	1/2"	1/2"					
K2	4	HAND SINK	1/2"	1/2"	1-1/2"				
K5.1	1	WALK-IN COOLER EVAPORATOR				5/8"			
K6.1	1	WALK-IN COOLER EVAPORATOR				5/8"			
K7	1	RANGE, 18"					1-1/4"	70	
K8	2	CONVECTION OVEN, GAS					3/4"	140	
K9	2	COMBI OVEN, GAS	(2)3/4"			2"	3/4"	106.5	
K11	1	KETTLE, GAS, TILTING	1/2"	1/2"			3/4"	100	
K12	1	FLOOR TROUGH			4"				
K21	2	HOT FOOD WELL, FLIM LINE				1"			
K27.1	1	WALL/SPLASH MOUNT FAUCET	1/2"	1/2"					
K27.2	1	PRE-RINSE FAUCET	1/2"	1/2"					
K29	1	CAN WASH	1/2"	1/2"		1-1/2"			
K30	1	MOP SINK	1/2"	1/2"	2"				
K31	1	WAREWASHER, CONVEYOR		1/2"		2"			
K31.1	1	BOOSTER HEATER, ELECT		3/4"					
K32.1	1	PRE-RINSE FAUCET	1/2"	1/2"					
K34	1	SCRAP COLLECTOR	3/4"	3/4"	2"				

1. ALL UNDER GROUND WASTE AND VENT SHALL BE 2" OR GREATER PER DRAWINGS.
2. FOR INFORMATIONAL PURPOSES ONLY. SEE KITCHEN DRAWINGS.

PLUMBING FIXTURE SCHEDULE

ID	FIXTURE	CW (IN)	HW (IN)	W (IN)	V (IN)	NOTES
EWC-1	ELECTRIC WATER COOLER	1/2	-	1 1/2	1 1/2	ELECTRIC WATER COOLER: ELKAY MODEL EZSTLBWSVRLK WALL MOUNTED BI-LEVEL ADA WATER COOLER WITH BOTTLE FILLER. ONE-PIECE STAINLESS STEEL TOP AND RECEPTOR. VANDAL RESISTANT BUBBLER. WELDED STEEL FRAME AND STAINLESS STEEL PANELS WITH BAKED ENAMEL COATING. HERMETICALLY SEALED MOTOR COMPRESSOR WITH OVERLOAD PROTECTION, 115V/1Ph/60hz, 6 FLA. FAN COOLED CONDENSER; PERMANENTLY LUBRICATED FAN MOTOR; COOLER SHALL DELIVER 8 GPH AND BOTTLE FILLER SHALL PROVIDE 1.1 GPM OF 50°F WATER WITH 80°F INLET TEMPERATURE AND 90°F ROOM TEMPERATURE. UNIT SHALL NOT INCLUDE FILTER.
FD-1	FLOOR DRAIN	-	-	2	1 1/2	FLOOR DRAIN: JAY R. SMITH 2005Y FLOOR DRAIN WITH CAST IRON BODY AND FLASHING COLLAR WITH 6-INCH ROUND NICKEL BRONZE ADJUSTABLE STRAINER HEAD WITH SECURED GRATE. PROVIDE DEEP SEAL TRAP AND TRAP GUARD TYPE TRAP SEAL DEVICE.
FD-2	FLOOR DRAIN	-	-	3	2	FLOOR DRAIN: JAY R. SMITH 2220Y FLOOR DRAIN WITH CAST IRON BODY AND FLASHING COLLAR WITH 8" CAST IRON GRATE AND SEDIMENT BUCKET, NO-HUB CONNECTION, TRAP GUARD TYPE TRAP SEAL DEVICE AND DEEP SEAL P-TRAP.
FS-1	FLOOR SINK	-	-	3	2	FLOOR SINK: JAY R. SMITH 3100Y CAST IRON FLANGED RECEPTOR WITH ACID RESISTANT INTERIOR COATING, NICKEL BRONZE RIM AND SECURED 1/2 GRATE AND ALUMINUM DOME BOTTOM STRAINER.
FS-2	FLOOR SINK	-	-	4	2	FLOOR SINK: JAY R. SMITH 3100Y CAST IRON FLANGED RECEPTOR WITH ACID RESISTANT INTERIOR COATING, NICKEL BRONZE RIM AND SECURED 1/2 GRATE AND ALUMINUM DOME BOTTOM STRAINER.
RD-1	ROOF DRAIN	-	-	SEE PLANS	-	ROOF DRAIN: JAY R. SMITH 1010Y-R-C-CID CAST IRON BODY WITH COMBINED FLASHING CLAMP AND CAST IRON GRAVEL STOP, CAST IRON DOME, EXTENSION, SUMP RECEIVER AND UNDERDECK CLAMP.
RDO-1	ROOF DRAIN OVERFLOW	-	-	SEE PLANS	-	ROOF DRAIN OVERFLOW: JAY R. SMITH 1080Y-R-C-CID CAST IRON BODY WITH COMBINED FLASHING CLAMP AND CAST IRON GRAVEL STOP, CAST IRON DOME, EXTENSION, SUMP RECEIVER AND UNDERDECK CLAMP, 2" WATER DAM.
DSN-1	DOWNSPOUT NOZZLE	-	-	SEE PLANS	-	DOWNSPOUT NOZZLE: JAY R. SMITH 1770 DOWNSPOUT NOZZLE WITH CAST BRONZE BODY AND FLANGE.
L-1	LAVATORY	1/2	1/2	1 1/2	1 1/2	LAVATORY (WALL HUNG, ADA): AMERICAN STANDARD LUCERNE, 20-1/2" X 18-1/4", WALL HUNG, VITREOUS CHINA LAVATORY, 4" CENTER FAUCET HOLES. OPEN GRID STRAINER. T&S BRASS B-0871 TWO LEVER, 4" CENTERS FAUCET, B-0199-03-N05 0.5 GPM MAX FLOW. PROVIDE FLEXIBLE STAINLESS STEEL LOOSE KEY ANGLE STOPS AND CHROME PLATED P-TRAP. COVER ALL EXPOSED PIPING WITH WHITE "HANDI-LAV GUARD" PROTECTOR AS NEEDED TO MEET ADA REQUIREMENTS.
S-1	CLASSROOM SINK	1/2	1/2	2	1 1/2	SINK (COUNTER MOUNT, SINGLE COMPARTMENT): ELKAY LRAD2521651 18 GAUGE STAINLESS STEEL SINK 25" X 21-1/4" X 6-1/2" DEEP, REAR CENTER DRAIN OPENING. T&S BRASS B-0301-VR DECK MOUNT, SINGLE HOLE, FAUCET WITH 5-3/4" GOOSENECK, LEVER HANDLES AND VANDAL PROOF 2.2 GPM AERATOR AND WATTS LFMMV THERMOSTATIC MIXING VALVE ON THE HOT WATER SUPPLY TO MEET ASSE 1070. PROVIDE WATTS LF7R DUAL CHECKS IN HOT AND COLD SUPPLIES. OPEN GRID STRAINER. FLEXIBLE STAINLESS STEEL SUPPLIES WITH LOOSE KEY ANGLE STOPS. CAST BRASS P-TRAP WITH CLEAN-OUT PLUG.
S-2	CLASSROOM SINK, BUBBLER	1/2	1/2	2	1 1/2	SINK (COUNTER MOUNT, SINGLE COMPARTMENT, BUBBLER): ELKAY DRKAD252265 18 GAUGE STAINLESS STEEL SINK 25" X 22" X 6-1/2" DEEP, REAR CENTER DRAIN OPENING, SINGLE HOLD FAUCET DRILLING AND SLOTTED HOLE FOR BUBBLER SEE ARCHITECTURAL PLANS FOR BUBBLER SIDE. T&S BRASS B-0301-VR DECK MOUNT, SINGLE HOLE, FAUCET WITH 5-3/4" GOOSENECK, LEVER HANDLES AND VANDAL PROOF 2.2 GPM AERATOR. HAWS 5054LF BUBBLER, SELF CLOSING LEVER, VANDAL RESISTANT HEAD. WATTS LFMMV THERMOSTATIC MIXING VALVE ON THE HOT WATER SUPPLY TO MEET ASSE 1070. PROVIDE WATTS LF7R DUAL CHECKS IN HOT AND COLD SUPPLIES. OPEN GRID STRAINER. FLEXIBLE STAINLESS STEEL SUPPLIES WITH LOOSE KEY ANGLE STOPS. CAST BRASS P-TRAP WITH CLEAN-OUT PLUG.
S-3	BREAK ROOM SINK	1/2	1/2	2	1 1/2	SINK (UNDER MOUNT, DOUBLE COMPARTMENT, BUBBLER): ELKAY ELUHAD311255RPO 18 GAUGE STAINLESS STEEL SINK 31.25" X 20.5" X 5-3/8" DEEP. REAR CENTER DRAIN OPENING. T&S BRASS B-1121 DECK MOUNT FAUCET WITH 8" SWING SPOUT, LEVER HANDLES AND 2.2 GPM AERATOR. WATTS LFMMV THERMOSTATIC MIXING VALVE ON THE HOT WATER SUPPLY TO MEET ASSE 1070. PROVIDE WATTS LF7R DUAL CHECKS IN HOT AND COLD SUPPLIES. OPEN GRID STRAINER. FLEXIBLE STAINLESS STEEL SUPPLIES WITH LOOSE KEY ANGLE STOPS. CAST BRASS P-TRAP WITH CLEAN-OUT PLUG. INSINKERATOR BADGER 5 SERIES FOOD WASTE DISPOSER WITH 1/2 HORSEPOWER MOTOR, 120 VOLT/1 PHASE POWER CONNECTION, 6.3 AMPS. WALL SWITCH BY DIV. 26.
S-4	NURSE SINK	1/2	1/2	2	1 1/2	SINK (UNDER MOUNT, SINGLE COMPARTMENT, BUBBLER): ELKAY ECTSRAD252260 18 GAUGE STAINLESS STEEL SINK 25" X 22" X 6" DEEP, REAR CENTER DRAIN OPENING. T&S BRASS B-1142 DECK MOUNT, FAUCET WITH 5-3/4" GOOSENECK, LEVER HANDLES AND VANDAL PROOF 2.2 GPM AERATOR. WATTS LFMMV THERMOSTATIC MIXING VALVE ON THE HOT WATER SUPPLY TO MEET ASSE 1070. PROVIDE WATTS LF7R DUAL CHECKS IN HOT AND COLD SUPPLIES. OPEN GRID STRAINER. FLEXIBLE STAINLESS STEEL SUPPLIES WITH LOOSE KEY ANGLE STOPS. CAST BRASS P-TRAP WITH CLEAN-OUT PLUG.
SS-1	SERVICE SINK	1/2	1/2	3	1 1/2	SERVICE SINK (FLOOR MOUNTED): KOHLER K-6710, WHITBY, 28 X 28-INCH, ENAMELED CAST IRON FLOOR-MOUNTED CORNER MODEL. K-9146 3" DRAIN WITH STRAINER. K-8940 REMOVABLE VINYL-COATED RIM GUARD. T&S BRASS B-0665-BSTP FAUCET WITH VACUUM BREAKER, SCREWDRIVER STOPS IN SHANKS. 5 FOOT RUBBER HOSE AND 893-CP WALL HOOK. PROVICIE WATTS LF7R DUAL CHECKS IN HOT AND COLD SUPPLIES INSTALLED IN CEILING ABOVE SERVICE SINK WITH ACCESS DOOR IF HARD CEILING.
WB-1	WASHER BOX	3/4	3/4	2	2	WASHER OUTLET BOX: IPS GUY GRAY B2184V WASHING MACHINE OUTLET BOX WITH DRAIN, QUARTER-TURN HAMMER ARRESTOR VALVES. 2" DRAIN KIT. BOX SHALL BE 20 GAUGE. WHITE POWDER COATED.
ICE-1	WATER CONNECTION	3/4	-	-	-	WATER CONNECTION: IPS GUY GRAY RMOW14B WATER OUTLET BOX WITH QUARTER TURN HAMMER ARRESTOR VALVE. BOX SHALL BE LEAD FREE METAL 20 GAUGE WITH WHITE POWDER COATING.
HB-1	HOSE BIBB	1/2	-	-	-	HOSE BIBB: T&S BRASS B-0736 1/2" NPT FEMALE INLET, 3/4" MALE HOSE THREAD OUTLET, CHROME PLATED, LOOSE KEY, VACUUM BREAKER.
HB-2	HOSE BIBB	3/4	3/4	-	-	HOSE BIBB: T&S BRASS B-0665-BSTP FAUCET WITH VACUUM BREAKER, SCREWDRIVER STOPS IN SHANKS. PROVIDE WATTS LF7R DUAL CHECKS IN HOT AND COLD SUPPLIES INSTALLED IN CEILING ABOVE SERVICE SINK WITH ACCESS DOOR IF HARD CEILING.
NFH-1	NON-FREEZE WALL HYDRANT	3/4	-	-	-	NON-FREEZE HYDRANT: JAY R. SMITH 5609QT NON-FREEZE WALL HYDRANT FOR WALL THICKNESS SHOWN ON PLAN. BRONZE HYDRANT, 3/4-INCH CONNECTION WITH BRASS CASING, INTEGRAL SELF-DRAINING VACUUM BREAKER, AND LOOSE KEY.
WC-1	WATER CLOSET	1	-	4	2	WATER CLOSET (FLOOR MOUNTED, FLUSH VALVE): AMERICAN STANDARD, MADERA FLOWISE 16-1/2" TOILET, FLOOR MOUNTED, VITREOUS CHINA, 1.28 GALLON FLUSH. ELONGATED BOWL DESIGN, SIPHON JET FLUSHING, 2-1/8" PASSAGEWAY AND 1-1/2" TOP SPUD. SLOAN ROYAL 111 SMO-1.28, 1.28 GPF. 1-1/2" TOP SPUD MOUNT, BATTERY POWER, EXPOSED, SENSOR FLUSHOMETER. BEMIS 3155CT "DURAGUARD" WHITE, SOLID PLASTIC, OPEN-FRONT SEAT, LESS COVER.
WC-2	ADA WATER CLOSET	1	-	4	2	WATER CLOSET (FLOOR MOUNTED, FLUSH VALVE, ADA): AMERICAN STANDARD, MADERA FLOWISE 16-1/2" TOILET, FLOOR MOUNTED, VITREOUS CHINA, 1.28 GALLON FLUSH. ELONGATED BOWL DESIGN, SIPHON JET FLUSHING, 2-1/8" PASSAGEWAY AND 1-1/2" TOP SPUD. SLOAN ROYAL 111 SMO-1.28, 1.28 GPF, 1-1/2" TOP SPUD MOUNT, BATTERY POWER, EXPOSED, SENSOR FLUSHOMETER. BEMIS 3155CT "DURAGUARD" WHITE, SOLID PLASTIC, OPEN-FRONT SEAT, LESS COVER.
GI-1	GREASE INTERCEPTOR	-	-	4	2	GREASE INTERCEPTOR: 1500 GALLON GREASE INTERCEPTOR. OLDCASTLE PRECAST SGI-STANDARD 4116-GI, OR EQUIVALENT.

(1) ALL UNDER GROUND WASTE AND VENT SHALL BE 2" OR GREATER PER DRAWINGS.

GAS FIRED WATER HEATER SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	SERVICE	INPUT LOAD (BTUH)	EFFICIENCY (%)	RECOVERY RATE @ 67 F DELTA T	TANK SIZE (GAL)	FLUE SIZE (IN)	LENGTH/ WIDTH/ HEIGHT (IN)	ELECTRICAL AMPS	ELECTRICAL V/PH	NOTES
WH-1	IBC INTERGAS STF 199	MECH. ROOM	DOMESTIC	199,000	89	318 GPH	ST-1	2	10.5/17.72/9.8	2	120/1	(1)(2)
WH-2	IBC INTERGAS STF 199	MECH. ROOM	DOMESTIC	199,000	89	318 GPH	ST-1	2	10.5/17.72/9.8	2	120/1	(1)(2)
WH-3	BRADFORD WHITE LC2PV50H763N	MECH. ROOM	KITCHEN BOOSTER	76,000	80	82 GPH	50	3	34-7/16/24/46-7/16	15	120/1	(1)(3)

1. ELEVATION 4500 FT.
2. OUTLET TEMPERATURE SHALL BE SET TO 120 DEGREES F.
3. OUTLET TEMPERATURE SHALL BE SET TO 140 DEGREES F.

WATER SOFTENER SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	TYPE	TOTAL (GRAINS)	NORMAL / MAX WATER FLOW/UNIT @ 15/25 PSI LOSS	BACKWASH FLOW RATE (GPM)	RESIN QUANTITY (FT^3)	RESIN TANK HGHT/DIA (IN/IN)	BRINE TANK HGHT/DIA (IN/IN)	ELECTRICAL (VOLT/PH)	NOTES
WS-1	CULLIGAN CTM-120-PF	MECH. ROOM	DUPLEX	111,000	55/73	8	4	84.7/16	40/24	120/1	1, 2

1. PACKAGED EQUIPMENT
2. DUPLEX OUTLET

naylor wentworth lund
architects

CACHE COUNTY
SCHOOL DISTRICT

HYDE PARK ELEMENTARY SCHOOL
333 EAST 300 NORTH
HYDE PARK CITY, UT
84318

DRAWING ISSUE | BID SET
ISSUE DATE | 02/25/2025
NWL PROJECT | 0119.002

△	DATE	REVISION
1	04/08/2025	ADDENDUM 3

PLUMBING SCHEDULES

P601

CCSD HYDE PARK ELEMENTARY SCHOOL

Electrical Addendum #3 **Issue Date: 4/8/2025**

CLARIFICATION TO THE BIDDERS:

CHANGES TO SPECIFICATIONS:

SPECIFICATION 27 1500 TELEPHONE/DATA SYSTEMS

1. Revise Section 2.3(C)(2)(a)
    a. Provide Cat 6A UTP, min-compliant, 4-Pair 100Ω Balanced Twisted Pair Cable to all locations shown on plans.

SPECIFICATION 27 4100 AUDIOVISUAL SYSTEMS

1. Section 2.4; EQUIPMENT REQUIRED PER ROOM TYPE
    a. Multipurpose Room Equipment Schedule
        i. Change the RDL D-TPSM2A to QSC AXON D2i
        ii. Remove all 'AXT' devices.
        iii. Add QSC unD6IO and label them as 'MXT'.
        iv. Remove the RDL TX-TPR3A device.

CHANGES TO THE DRAWINGS:

SHEET E370 – PANEL SCHEDULES

1. PANELBOARD SCHEDULE '2HC1':
    a. Revise circuit breaker #15 to 20A/1P.

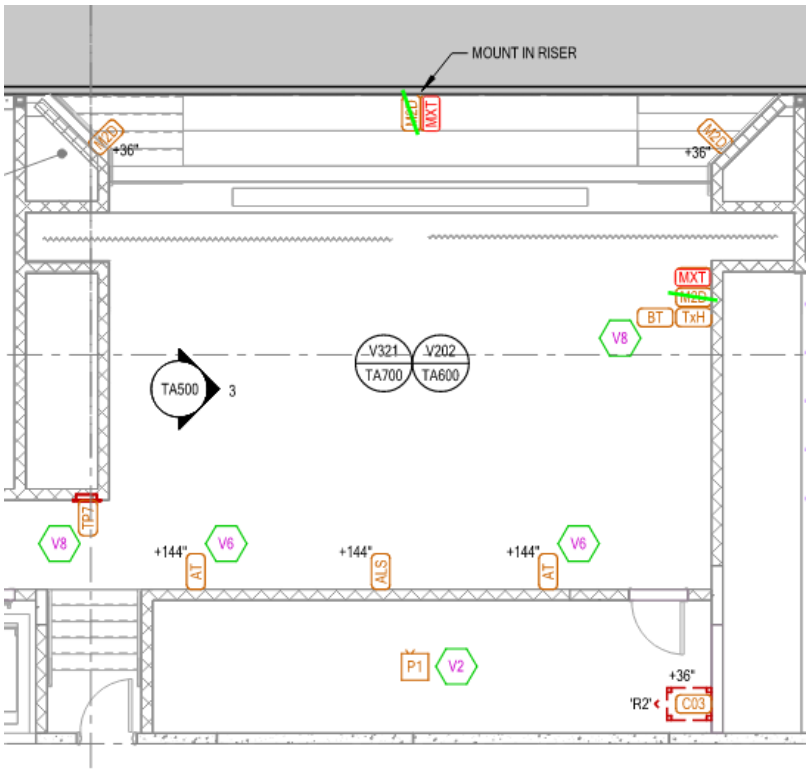
2. PANELBOARD SCHEDULE '2LCM1':
    a. Revise circuit breaker #33 to 20A/1P.

SHEET E372 – PANEL SCHEDULES

1. PANELBOARD SCHEDULE '2HB1':
    a. Revise circuit breaker #13 to 20A/1P.
2. PANELBOARD SCHEDULE '2LMB1':
    a. Revise circuit breaker #11 to 20A/1P.

SHEET TA122 – SECOND LEVEL AUDIOVISUAL PLAN – AREA B

1. Remove all 'M2D' devices shown on the stage area, except the (2) 'M2D' devices on the side walls, and change all 'AXT' devices to 'MXT' (image below).



SHEET TA123 – SECOND LEVEL AUDIOVISUAL PLAN – AREA C

1. Remove all 'M2D' devices from Multipurpose Room.
2. Change 'AXT' to 'MXT' devices.

On all SYSTEM PLAN Sheets (E400-E423):

1. Added this note to the GENERAL SYSTEMS SHEET NOTES – "ALL IP SURVEILLANCE CAMERA HOUSINGS AND MOUNTING BRACKETS SHALL BE PAINTED BY THE INSTALLATION CONTRACTOR. AND PRIOR TO STARTING ANY WORK, THE CONTRACTOR SHALL COORDINATE WITH THE OWNER AND ARCHITECT TO DETERMINE THE REQUIRED PAINT COLORS."

SHEET E400:

1. Updated the CAMERA SURVEILLANCE TYPE SCHEDULE and added these types to it – M01N and P01N. Refer to attached sheet for clouded changes.

SHEETS E400, E411, E412, E423:

1. Updated some of the exterior wall mounted IP surveillance cameras to one exterior corner mounted IP surveillance camera. Refer to attached sheet for clouded changes.
2. Added this Sheet Keynote to these sheets - IP SURVEILLANCE CAMERAS MOUNTING ON EXTERIOR CORNERS OF THE BUILDING REFER TO DIAGRAM A1 ON SHEET/PAGE A921, AND DIAGRAM EY403 ON SHEET/PAGE E431.

Electrical Addendum #3 **Issue Date: 4/8/2025**

SHEET TA700 – AUDIOVISUAL SIGNAL FLOW DIAGRAMS

1. Diagram 'V321'; "MULTIPURPOSE ROOM AUDIOVISUAL SIGNAL FLOW".
    a. Remove all 'AXT' devices from DSP.
    b. On the Network Switch, change (5) of the 'M2D' devices to 'MXT'. Leave the remaining (2) 'M2D' devices as they are.

PRIOR APPROVAL OF MANUFACTURERS OF ELECTRICAL EQUIPMENT

The following items, trade names, products and manufacturers are approved for bidding. Approval does not relieve the bidder from satisfying the intent of the requirements of drawings, specifications and addenda in every respect. Failure to conform to the design quality and standards specified, established and required may result in later disapproval. If equipment must be disapproved after bidding, supplier shall supply specified equipment at no extra cost to the Owner.

Items are listed generally and specific model number, etc. shall be as submitted. Items submitted but not approved, either did not satisfy the requirements, or showed insufficient data, or arrived after the 8 day deadline established for submittals.

TYPE	SPECIFIED	JRC APPROVED	QUANTUM APPROVED	SSCO APPROVED
AH4	ILP	LITHONIA	METALUX	DAY BRITE
AH4E	ILP	LITHONIA	METALUX	DAY BRITE
A4M	ILP	LITHONIA	METALUX	DAY BRITE
A4ME	ILP	LITHONIA	METALUX	DAY BRITE
B2M	ILP	LITHONIA	METALUX	DAY BRITE
D4A	CONTECH	-	PORTFOLIO	HE WILLIAMS
DC	ACOLYTE	KELVIX	Q-TRAN	OMNILIGHT
EH	COLUMBIA	MAXLINE	METALUX	ALS
HB18B	ILP	LITHONIA	METALUX	HE WILLIAMS
HB30	LINMORE	LITHONIA	METALUX	HE WILLIAMS
K4	ILP	LITHONIA	METALUX	DAYBRITE
K4E	ILP	LITHONIA	METALUX	DAYBRITE
L1MP	TEMPO	INSIGHT	ECOSENSE	PINNACLE
L2MNP	XICO	LUX	PRULITE	LUMATO
L2MP	XICO	LUX	PRULITE	LUMATO
L2MPE	XICO	LUX	PRULITE	LUMATO
L3VP	XICO	LUX	PRULITE	LUMATO
L4HD	ILP	LITHONIA	CORELITE	HE WILLIAMS
L4HDE	ILP	LITHONIA	CORELITE	HE WILLIAMS
L4MD	ILP	LITHONIA	CORELITE	HE WILLIAMS
L4MDE	ILP	LITHONIA	CORELITE	HE WILLIAMS
L8MD	ILP	LITHONIA	CORELITE	HE WILLIAMS
L8MDE	ILP	LITHONIA	CORELITE	HE WILLIAMS
OD6	LUMENWERX	GOTHAM	PORTFOLIO	HE WILLIAMS
OD6E	LUMENWERX	GOTHAM	PORTFOLIO	HE WILLIAMS
OLDH	ACOLYTE	KELVIX	Q-TRAN	OMNILIGHT
OP12	BEACON	LITHONIA	McGRAW-EDISON/KW	VISIONAIRE

OP12H	BEACON	LITHONIA	McGRAW-EDISON/KW	VISIONAIRE
OP12S	BEACON	LITHONIA	McGRAW-EDISON/KW	VISIONAIRE
OP13	BEACON	LITHONIA	McGRAW-EDISON/KW	VISIONAIRE
OP14H	BEACON	LITHONIA	McGRAW-EDISON/KW	VISIONAIRE
OP24	BEACON	LITHONIA	McGRAW-EDISON/KW	VISIONAIRE
OPLC	BEACON	LITHONIA	McGRAW-EDISON/KW	VISIONAIRE
OWP6	BEACON	LITHONIA	McGRAW-EDISON	HE WILLIAMS
OWP6E	BEACON	LITHONIA	McGRAW-EDISON	HE WILLIAMS
SL4C	COLUMBIA	LITHONIA	METALUX	HE WILLIAMS
SL4CE	COLUMBIA	LITHONIA	METALUX	HE WILLIAMS
SL4W	COLUMBIA	LITHONIA	METALUX	HE WILLIAMS
SL4WO	COLUMBIA	LITHONIA	METALUX	HE WILLIAMS
SRD6	PRESCOLITE	JUNO	HALO	LIGHTOLIER
SRD8O	PORTOR	JUNO	AFX	NORA
THB	CONTECH	JUNO	BRUCK	INTENSE
THW	CONTECH	JUNO	BRUCK	INTENSE
TRB	CONTECH	JUNO	BRUCK	INTENSE
TRW	CONTECH	JUNO	BRUCK	INTENSE
X1	BEGHELLLI/PORTOR	ISOLITE	EMERGI-LITE	EXITRONIX
X2	BEGHELLLI/PORTOR	ISOLITE	EMERGI-LITE	EXITRONIX
X3B	BEGHELLLI/PORTOR	ISOLITE	EMERGI-LITE	EXITRONIX

END OF ELECTRICAL ADDENDUM

GENERAL SYSTEM SHEET NOTES

FIRE ALARM SYSTEM:

•PROVIDE A VOICE/EVAC FIRE ALARM SYSTEM PER SPECIFICATIONS AND CCSD REQUIREMENTS. FIRE ALARM DEVICES SHOWN ARE FOR REFERENCE ONLY AND BASED UPON A PERFORMANCE SPECIFICATION. A LICENSED FIRE ALARM ENGINEER MUST PROVIDE AND STAMP ALL NEW EQUIPMENT/DEVICE QUANTITIES, LOCATIONS, AND NATIONAL & LOCAL CODE COMPLIANCE IN THE FIRE ALARM CONTRACTOR'S BID. DEVICES SHOWN ON THESE DRAWINGS ARE NOT FINAL DESIGN DOCUMENTS.
•PROVIDE RED CONDUIT AND BOXES FOR ALL FIRE ALARM RACEWAY AND INFRASTRUCTURE.
•PROVIDE #14 AWG MINIMUM WIRING FOR ALL SIGNAL AND INITIATION DEVICES.
•ALL BACK BOXES SHALL BE FLUSH MOUNTED UNLESS OTHERWISE NOTED. COORDINATE CONDUIT AND BACK BOX INSTALLATION IN VARIOUS WALL TYPES.
•COORDINATE FIRE SPRINKLER SYSTEM TAMPER AND FLOW SWITCH QUANTITIES/LOCATIONS WITH FIRE SPRINKLER DRAWINGS AND CONNECT THEM TO THE FIRE ALARM SYSTEM.
•COORDINATE DUCT SMOKE DETECTOR LOCATIONS/QUANTITIES WITH THE MECHANICAL CONTRACTOR. HARDWIRE TO RELAY STARTER. PROVIDE TWO DUCT-TYPE SMOKE DETECTORS FOR EACH FCU, AHU, SUPPLY FAN, AND HEAT PUMP OF 2000 CFM OR GREATER. DUCT DETECTORS SHALL BE WITHIN 5'-0" OF EACH FIRE/SMOKE DAMPER.
•PROVIDE FIRE ALARM AND ACCESS CONTROL INTERFACE TO UNLOCK INDICATED LOCKS UPON FIRE ALARM INITIATION.
•ALL VISUAL DEVICES SHALL BE SYNCHRONIZED WITHIN THE BUILDING.
•REFER TO THE ARCHITECTURAL DOOR SCHEDULE FOR MAGNETIC DOOR HOLDER AND BLOW-OPEN DOOR REQUIREMENTS.
•PROVIDE FIRE ALARM RELAY MODULES FOR ALL DOORS WITH ACCESS CONTROL DEVICES.
•DEVICES INDICATED ON THE FIRE ALARM ONE-LINE ARE FOR REFERENCE ONLY. REFER TO PLAN DRAWINGS AND SPECIFICATIONS FOR QUANTITIES.
•PROVIDE 120V CIRCUIT FROM THE NEAREST EQUIPMENT BRANCH PANELBOARD FOR FIRE/SMOKE DAMPER RELAYS/JUNCTION BOXES (J-BOXES). PROVIDE FIRE ALARM MODULES AND RELAYS AS NECESSARY FOR ALL FIRE/SMOKE DAMPERS SHOWN ON DIVISION 23 DRAWINGS. ALL FIRE/SMOKE DAMPERS SHALL HAVE A MANUAL OVERRIDE SWITCH. REFER TO DIAGRAM D012.

ACCESS CONTROL:

•ACCESS CONTROL SYSTEM CABLING SHALL RUN BACK TO CENTRALLY LOCATED HEAD-END/SLAVE PANELS AND POWER SUPPLIES IN MDF/IDF ROOMS. ALTERNATE CONFIGURATIONS REQUIRE WRITTEN APPROVAL AND REVISED DRAWINGS. EACH ACCESS CONTROL PANEL SHALL HAVE A 4X8' FIRE-RATED PLYWOOD BACKER AND SUFFICIENT CONTROLLER BOARDS.
•THE ACCESS CONTROL SYSTEM SHALL INCLUDE NECESSARY RELAYS, EXTERNAL POWER SUPPLIES, AUXILIARY DEVICES, OR I/O MODULES. REQUEST TO EXIT, DOOR CONTACT, AND INDICATOR CIRCUITS SHALL BE SUPERVISED FOR FAULTS.
•COORDINATE CREDENTIAL CARD READER AND ADA CONTROL STATION LOCATIONS WITH ARCHITECTURAL & SYSTEM DRAWINGS. PROVIDE ALL REQUIRED CREDENTIAL CARD READER LOCATIONS.
•COORDINATE ALL DOOR HARDWARE WITH DIVISION 8 (LOCK TYPES, POWER SUPPLIES, ETC.). REVIEW THE DOOR HARDWARE SUBMITTAL AND SUMMARIZE DISCREPANCIES.
•PROVIDE RACEWAY, CONDUIT, AND WIRING FOR INDICATED SECURITY DEVICES. PROVIDE CONCEALED 3/4" CONDUIT AND REQUIRED CABLING. COORDINATE JUNCTION BOX ROUGH-IN LOCATIONS WITH THE OWNER AND ACCESS SYSTEM SUPPLIER.
•CABLING TO DEVICES IN DOORS/MULLIONS SHALL BE ROUTED THROUGH THE MULLIONS. COORDINATE WITH THE WINDOW SYSTEM INSTALLER.
•ELECTRONIC LOCKING HARDWARE (MAG LOCKS, ELECTRIC STRIKES, CRASH BARS, ETC.) IS BY DIVISION 8. VERIFY LOCK VOLTAGES AND FUNCTIONALITY. POWER SUPPLIES FOR THESE DEVICES ARE BY DIVISION 28. COORDINATE POWER REQUIREMENTS WITH DIVISION 8.
•PROVIDE ONE 4 SQ. J-BOX WITH COVER ON THE PROTECTED SIDE OF THE DOORWAY IN AN ACCESSIBLE CEILING SPACE (OR OTHER ACCESSIBLE LOCATION) AND A HANDY BOX IN THE DOOR JAMB (MOUNTED BEFORE GROUTING). DRILL A 1/8" PILOT HOLE FOR DEVICE MOUNTING.
•ALL EXTERIOR DOORS, ROOF HATCHES/ACCESS DOORS, MDF/IDF ROOMS, RISER ROOMS, AND DOORS WITH CREDENTIAL CARD READERS REQUIRE AD DOOR POSITION SWITCH/CONTACT TERMINATING TO THE ACCESS CONTROL SYSTEM.

IP VIDEO SURVEILLANCE SYSTEM:

•THE NVR, VMS, POE SWITCHES, AND SERVERS WILL BE OWNER-FURNISHED AND OWNER-INSTALLED.
•ALL OF THE IP SURVEILLANCE CAMERAS AND MOUNTING HARDWARE / EQUIPMENT WILL BE CONTRACTOR-FURNISHED AND CONTRACTOR INSTALLED.
•ALL SECURITY CAMERAS SHALL HAVE ONE CAT6A ORANGE CABLE INSTALLED WITH A 10'-0" SERVICE LOOP AT EACH CAMERA LOCATION AND BACK TO THE MDF/IDF ROOMS.
•ALL PENETRATIONS OF FIRE-RATED FLOORS, WALLS, AND CEILINGS SHALL BE SEALED TO MAINTAIN THE FIRE RATING.
•PRIOR TO STARTING ANY WORK CONTRACTORS SHALL VERIFY ALL IP SURVEILLANCE CAMERA ROUGH-IN REQUIREMENTS, THE CAMERA EXTERIOR HOUSING COLOR, THE MOUNTING LOCATIONS, MOUNTING HEIGHTS, ORIENTATION, AND FIELD OF VIEW(S) FOR EACH IP SURVEILLANCE CAMERA.
•ALL IP SURVEILLANCE CAMERA HOUSINGS AND MOUNTING BRACKETS SHALL BE PAINTED BY THE INSTALLATION CONTRACTOR. AND PRIOR TO STARTING ANY WORK, THE CONTRACTOR SHALL COORDINATE WITH THE OWNER AND ARCHITECT TO DETERMINE THE REQUIRED PAINT COLORS. X3

GENERAL:

•CONTRACTORS SHALL CAREFULLY REVIEW REFLECTED CEILING PLANS, ARCHITECTURAL ELEVATIONS, AND MILLWORK DRAWINGS.
•COORDINATE WITH THE ELECTRICAL CONTRACTOR PRIOR TO ROUGH-IN.
•REFER TO SPECIFICATIONS FOR SYSTEM INTEGRATIONS (VIDEO MANAGEMENT, ACCESS CONTROL, FIRE ALARM).
•ALL CABLING TO DEVICES ON DOOR FRAMES OR MULLIONS SHALL BE ROUTED THROUGH THEM. COORDINATE WITH THE DOOR/WINDOW CONTRACTOR.
•REFER TO SPECIFICATIONS FOR INTEGRATION & TIE-IN REQUIREMENTS BETWEEN SYSTEMS.
•SECURITY INTEGRATOR SHALL CAREFULLY REVIEW REFLECTED CEILING PLANS, ARCHITECTURAL ELEVATIONS, AND MILLWORK DRAWINGS.
•CONTRACTORS SHALL PROVIDE SEPARATE COMPUTER-DRAFTED SHOP DRAWINGS FOR THE ENTIRE FIRE ALARM, ACCESS CONTROL, AND VIDEO SURVEILLANCE SYSTEMS, INCLUDING ALL REQUIRED INFORMATION. TYPICAL RISERS AND COPYING THE CONTRACT DOCUMENTS ARE NOT ACCEPTABLE.

REFER TO SHEET E330 - ROOF ELECTRICAL PLAN FOR ADDITIONAL FIRE ALARM DEVCIES

ACCESS CONTROL TYPE SCHEDULE

LEGEND:

CR = ACCESS CONTROL CREDENTIAL CARD READER
KCR = ACCESS CONTROL CREDENTIAL CARD READER WITH KEYPAD
DC = ACCESS CONTROL DOOR CONTACT
BR = ACCESS CONTROL BIOMETRIC READER...
ICR = INTEGRATED LOCKSET WITH CREDENTIAL CARD READER
DP = INTRUSION DETECTION DOOR CONTACT

TYPE	DOOR DESCRIPTION	CREDENTIAL				DOOR CONTACT		NOTES
		CR	BR	KCR	ICR	DC	DP	
A	SINGLE DOOR	1	0	0	0	1	0	REFER TO THE SECURITY GENERAL NOTES
B	DOUBLE DOOR	1	0	0	0	2	0	REFER TO THE SECURITY GENERAL NOTES
C	DOUBLE DOOR	0	0	0	0	2	0	REFER TO THE SECURITY GENERAL NOTES
D	SINGLE DOOR	0	0	0	0	1	0	REFER TO THE SECURITY GENERAL NOTES
E	ELEVATOR	1	0	0	0	0	0	REFER TO THE SECURITY GENERAL NOTES
G	GARAGE DOOR	0	0	0	0	1	0	REFER TO THE SECURITY GENERAL NOTES
R	ROOF HATCH	0	0	0	0	1	0	REFER TO THE SECURITY GENERAL NOTES

ACCESS CONTROL TAG LEGEND

DOOR TYPE
DOOR NUMBER
######-X

SEE THE "ACCESS CONTROL TYPE SCHEDULE" FOR DOOR TYPES

CAMERA SURVEILLANCE TYPE SCHEDULE

TYPE	DESCRIPTION	MANFR.	CAT NO.	NOTES
F01C	INDOOR DAY/NIGHT VARIFOCAL DOME CAMERA - CEILING MOUNTED	AXIS	M4218-LV	REFER TO THE SECURITY GENERAL NOTES
F01W	INDOOR DAY/NIGHT VARIFOCAL DOME CAMERA - WALL MOUNTED	AXIS	M4218-LV	REFER TO THE SECURITY GENERAL NOTES
F02C	OUTDOOR/INDOOR DAY/NIGHT VARIFOCAL DOME CAMERA - CEILING MOUNTED	AXIS	P3267-LVE	REFER TO THE SECURITY GENERAL NOTES
F02W	OUTDOOR/INDOOR DAY/NIGHT VARIFOCAL DOME CAMERA - WALL MOUNTED	AXIS	P3267-LVE	REFER TO THE SECURITY GENERAL NOTES
M01C	MULTIDIRECTIONAL(4) INDOOR/OUTDOOR DAY/NIGHT DOME CAMERA - CEILING MOUNTED	AXIS	P3735-PLE	REFER TO THE SECURITY GENERAL NOTES
M01N	MULTIDIRECTIONAL(4) INDOOR/OUTDOOR DAY/NIGHT DOME CAMERA - CORNER MOUNTED	AXIS	P3735-PLE	REFER TO THE SECURITY GENERAL NOTES
M01W	MULTIDIRECTIONAL(4) INDOOR/OUTDOOR DAY/NIGHT DOME CAMERA - WALL MOUNTED	AXIS	P3735-PLE	REFER TO THE SECURITY GENERAL NOTES
M02C	MULTIDIRECTIONAL(2) INDOOR/OUTDOOR DAY/NIGHT DOME CAMERA - CEILING MOUNTED	AXIS	P4705-PLVE	REFER TO THE SECURITY GENERAL NOTES
P01N	PAN-TILT-ZOOM (PTZ) OUTDOOR DAY/NIGHT IP CAMERA -CORNER MOUNTED	AXIS	Q6100-E & Q6318-LE	REFER TO THE SECURITY GENERAL NOTES
P01W	PAN-TILT-ZOOM (PTZ) OUTDOOR DAY/NIGHT IP CAMERA -WALL MOUNTED	AXIS	Q6100-E & Q6318-LE	REFER TO THE SECURITY GENERAL NOTES

X3

CAMERA SURVEILLANCE TAG LEGEND

CHARACTERISTICS:
REFER TO SCHEDULE

TYPE:
F = FIXED
M = MULTI-LENS
P = PTZ
T = THERMAL

MOUNTING TYPE:
C = CEILING
D = PENDANT
G = WALL GOOSE-NECK
L = POLE
N = CORNER
P = PARAPET
R = RECESSED
S = INSIDE CORNER MOUNT
W = WALL

F01R

SEE THE "CAMERA SURVEILLANCE SCHEDULE" FOR CAMERA TYPES

LOW VOLTAGE SCOPE OF WORK

NOTES:...

1. RESPONSIBILITY MATRIX DELINEATES THE SCOPE OF WORK BETWEEN THE OWNER AND THE CONTRACTORS. CONTRACTORS ARE RESPONSIBLE TO COORDINATE BETWEEN EACH OTHER FOR THE FULL SCOPE OF WORK THEY ARE...
2. ADDITIONAL NOTES MAY BE PRESENT WITHIN THE CONTRACT DOCUMENTS INDICATING SPECIFIC EQUIPMENT PROVIDED BY OTHERS OR REQUIRE INSTALLATION BY SPECIFIC DIVISIONS.
3. INSTALLER PROVIDING THE SYSTEM CABLING SHALL PROVIDE THE CABLING, TERMINATION AND CERTIFICATION FOR A COMPLETE SYSTEM INSTALLATION, UNLESS OTHERWISE SPECIFICALLY NOTED WITHIN THE CONTRACT DOCUMENTS.
4. INSTALLER TO VERIFY WITH CONTRACT DOCUMENTS FOR THE CONNECTION TYPE (MALE OR FEMALE) REQUIRED FOR EACH SYSTEM.
5. REFER TO DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

LEGEND

AC ACCESS CONTROL CONTRACTOR
AV AUDIOVISUAL CONTRACTOR
DC DOOR HARDWARE CONTRACTOR
EC ELECTRICAL CONTRACTOR
FR FURNITURE CONTRACTOR
GC GENERAL CONTRACTOR
IC INTRUSTION DETECTION
LVC CONTRACTOR
NIC DATA CABLING CONTRACTOR
OWNER NOT IN CONTRACT
SC OWNER
SPEC VIDEO SURVEILLANCE CONTRACTOR SEE SPECIFICATIONS

DESCRIPTION	FURNISHED BY	INSTALLED BY
GENERAL		
STRUCTURAL BACKING AND SUPPORT FOR WALL MOUNTED EQUIPMENT	GC	GC
EQUIPMENT POWER (120V, 208V, 240V, 277V, 480V)	EC	EC
ROUGH OR FINISHED TRIM, CASEWORK, MILLWORK, EQUIPMENT RACK PEDESTALS, STRUCTURAL WORK FOR SPECIAL CONSTRUCTION	GC	GC
SUPPORT CABLES, PRE-CONSTRUCTION KITS, TILE BRIDGES AND/OR BACK BOXES FOR CEILING MOUNTED DEVICES.	EC	EC
TEST	TS	TS
AUDIOVISUAL BOXES/DEVICES		
SPECIALTY BACK BOXES, TILE BRIDGES, SUPPORT CABLES, PRECONSTRUCTION KITS, ETC. FOR AUDIOVISUAL COMPONENTS (TOUCH PANELS, LOUDSPEAKERS, KEYPADS, ETC.)	AV	AV
CUSTOM AUDIOVISUAL CONNECTOR INSERT PLATE FOR FLOOR BOXES AND/OR WALL PLATES	AV	AV
FURNITURE BOXES WITH AUDIOVISUAL CONNECTIONS AND/OR CABLES	AV	AV
FURNITURE BOX TABLE CUTTING	GC	GC
CONDUIT/WIRE		
ROUGH-IN - CONDUIT W/PULL STRING, JUNCTION BOXES, FLOOR BOXES, FLAT PANEL DISPLAY BACK BOXES, ETC.	EC	EC
CATEGORY CABLE / FIBER OPTIC CABLE FROM DEVICE LOCATION TO TR(MDF)/ER(IDF) TERMINATED IN PATCH PANEL	LVC	LVC
COAXIAL CABLE	LVC	LVC
CATEGORY CABLING FROM DEVICE TO DEVICE, NOT TERMINTATED IN PATCH PANELS WITHIN THE ER(MDF/TR(IDF)	AV	AV
EQUIPMENT		
EQUIPMENT RACKS NOT WITHIN THE ER(MDF)/TR(IDF) FOR SYSTEM COMPONENTS	AV	AV
LIGHTING CONTROL SYSTEM INTERFACE DEVICE(S) AND CABLING TO AV CONTROL SYSTEM. TERMINATION INTO AV SYSTEM CONTROLLER BY AV INSTALLER	EC	EC
NETWORK SWITCHES WITHIN THE ER(MDF)/TR(IDF) FOR AUDIOVISUAL NETWORK, AUDIO, CONTROL AND VIDEO	OWNER	OWNER
PROJECTOR/MONITORS		
VIDEO PROJECTOR	AV	AV
PROJECTOR SCREEN MANUAL AND/OR MOTORIZED HOUSING	AV	AV
FLAT PANEL MONITOR MOUNTS	AV	AV
FLAT PANEL MONITORS	OWNER	AV
VIDEO PROJECTOR MOUNTS	AV	AV
PROJECTOR SCREEN, FIXED FRAME (SIMILAR TO WHITEBOARD)	GC	GC
PROJECTOR SCREEN MANUAL AND/OR MOTORIZED ROLLER	AV	AV
INTERACTIVE FLAT PANEL MONITORS AND MOUNTS	OWNER	AV
ACCESS CONTROL SYSTEM CONDUIT & WIRING		
ROUGH-IN - CONDUIT W/PULL STRING, JUNCTION BOXES, FLOOR BOXES, ETC.	EC	EC
CATEGORY AND FIBER OPTIC CABLING	LVC	LVC
TERMINATING AND TESTING THE CATEGORY AND FIBER OPTIC CABLING	LVC	LVC
ACCESS CONTROL CABLING	AC	AC
TERMINATING AND TESTING THE ACCESS CONTROL CABLING	AC	AC
ACCESS CONTROL SYSTEM EQUIPMENT		
ACCESS CONTROL SERVER	OWNER	OWNER
ACCESS CONTROL OPERATING SOFTWARE	AC	AC
ACCESS CONTROL SYSTEM HEAD-END CONTROL PANEL(S), AND POWER SUPPLY(S)	AC	AC
INDIVIDUAL ACCESS CONTROL DOOR CONTROLLERS (IF APPLICABLE)	AC	AC
RECHARGABLE BACK-UP BATTERIES	AC	AC
ACCESS CONTROL END DEVICES (E.G., CREDENTAIL CARD READERS, DOOR POSITION CONTACTS, REQUEST TO EXIT MOTIONS, PUSH TO EXIT BUTTONS, DESK DOOR RELEASE BUTTONS, DURESS/ PANIC BUTTONS, SCHOOL LOCKDOWN CREDENTIAL CARD READER OR BUTTON, ETC.)	AC	AC
ELECTRIFIED LOCKING DOOR HARDWARE EQUIPMENT (E.G., ELECTRIC STRIKES, ELECTRIFIED LOCKSETS, ELECTRIFIED EXIT RIM DEVICE (CRASH BARS), ELECTROMAGNETIC LOCKS, ELECTRIC POWER TRANSFER/ELECTRIC HINDGE, ETC.)	DC	DC
POWER SUPPLIES FOR ELECTRIFIED LOCKING DOOR HARDWARE EQUIPMENT	AC	AC
CREDENTIALS (E.G. CARDS, FOBS, TAGS, MOBILE CREDENTIALS)	AC	AC
BADGE PRINTER FOR CREDENTIAL CARDS.	AC	AC
IP TWO-WAY AUDIO VIDEO INTERCOM SYSTEM (E.G., EXTERIOR DOOR STATIONS, ANSWERING BASE STATIONS, SDXC MEMORY CARDS, IP LICENSES, ETC).	AC	AC
EXTERIOR PEDESTALS AND ENCLOSURES	NIC	NIC
NETWORK EQUIPMENT SPECIFICALLY FOR THE ACCESS CONTROL SYSTEM (E.G., NETWORK SWITCHES, POE SWITCHES, ROUTERS, PATCH PANELS, EQUIPMENET RACKS, ETC.).	OWNER	OWNER
UNINTERRUPTIBLE POWER SUPPLY (UPS) WITH POWER SURGE & SUPRPESSION EQUIPMENT FOR THE ACCESS CONTROL SYSTEM EQUIPMENT, THE ELECTRIFIED DOOR HARDWARE EQUIPMENT, AND THE IP VIDEO SURVEILLANCE EQUIPMENT.	AC	AC
(UPS) UNINTERRUPTIBLE POWER SUPPLY, SURGE PROTECTORS, POWER SURGE & SUPRPESSION EQUIPMENT.	NIC	NIC
IP VIDEO SURVEILLANCE SYSTEM CONDUIT & WIRING		
ROUGH-IN: CONDUIT WITH PULL STRING, JUNCTION BOXES, FLOOR BOXES, ETC.	EC	EC
CATEGORY AND FIBER OPTIC CABLING	LVC	LVC
TERMINATING AND TESTING THE CATEGORY AND FIBER OPTIC CABLING	LVC	LVC
IP VIDEO SURVEILLANCE SYSTEM EQUIPMENT		
(NVR) NETWORK VIDEO RECORDER SERVER	OWNER	OWNER
(VMS) VIDEO MANAGEMENT SYSTEM OPERATING SOFTWARE	OWNER	OWNER
VIDEO ANALYTIC SOFTWARE AND LICENSING	OWNER	OWNER
IP SURVEILLANCE CAMERA SOFTWARE LICENSES	OWNER	OWNER
IP SURVEILLANCE CAMERAS	SC	SC
IP SURVEILLANCE CAMERA MOUNTS AND MOUNTING HARDWARE EQUIPMENT	SC	SC
AUDIO MICROPHONE FOR IP SURVEILLANCE CAMERA	SC	SC
MICRO SDXC MEMORY CARD(S) FOR IP SURVEILLANCE CAMERAS	SC	SC
IP SURVEILLANCE CAMERA ETHERNET EXTENDERS, MEDIA CONVERTERS, POE INJECTORS, POWER SUPPLIES	SC	SC
IN-LINE CATEGORY CABLE SURGE PROTECTORS	SC	SC
OPERATING BASE STATION AND WORK STATION EQUIPMENT (E.G., COMPUTER SERVERS, MONITORS, KEYBOARDS, MOUSE, SPEAKERS, ETC.)	OWNER	OWNER
NETWORK EQUIPMENT SPECIFICALLY FOR THE IP VIDEO SURVEILLANCE SYSTEM (E.G. NETWORK SWITCHES, POE SWITCHES, ROUTERS, ETC.)	OWNER	OWNER
TELEPHONE / DATA BOXES/DEVICES		
CUSTOM TELECOMMUNICATIONS CONNECTOR INSERT PLATE FOR FLOOR BOXES AND/OR WALL PLATES	EC	EC
CONDUIT/WIRE		
ROUGH-IN - CONDUIT W/PULL STRING, JUNCTION BOXES, FLOOR BOXES, FLAT PANEL DISPLAY BACK BOXES, ETC.	EC	EC
CATEGORY CABLE / FIBER OPTIC CABLE	LVC	LVC
TERMINATE CABLE (PATCH PANEL AND DATA PORT), INCLUDING TESTING	LVC	LVC
PATCH CABLES FOR DEVICES WITHIN THE TR/ER FOR CONNECTION BETWEEN PATCH PANELS AND NETWORK SWITCHES	LVC	LVC
EQUIPMENT		
EQUIPMENT RACKS WITHIN THE ER(MDF)/TR(IDF) FOR SYSTEM COMPONENTS	LVC	LVC
WIRELESS ACCESS POINTS	OWNER	OWNER
RACK MOUNT UPS, POWER DISTRIBUTION UNIT (PDU)	LVC	LVC
DATA SWITCHES, SERVERS, FIREWALL, ETC	OWNER	OWNER

SECURITY GENERAL NOTES

1. (ACCESS CONTOL SYSTEM) PRIOR TO STARTING ANY WORK OR ROUGH-IN THE DIV.28 INSTALLATION CONTRACTOR SHALL COORDINATE A MEETING WITH THE OWNER(S), THE DIV.8 DOOR HARDWARE CONTRACTOR, AND THE DIV.26 ELECTRICAL CONTRACTOR TO REVIEW AND DISCUSS:
A. THE DIV.8 DOOR HARDWARE SPECIFICATIONS AND DOOR ROUGH-IN REQUIREMENTS.
B. WHAT ELECTRIFIED DOOR HARDWARE IS GETTING INSTALLED ON EACH DOOR.
C. THE SPECIFIED ACCESS CONTROL CABLING, AND IT'S OUTER JACKETING COLOR.
D. THE SPECIFIED RACEWAY TO BE INSTALLED.
E. THE FAIL-SAFE OR FAIL-SECURE OPERATION FOR THE ELECTRIFIED DOOR HARDWARE EQUIPMENT.
F. HOW THE ADA EQUIPMENT WILL NEED TO FUNCTION AND OPERATE WITH THE ACCESS CONTROL SYSTEM.
G. THE POWER REQUIREMENTS FOR ALL OF THE ELECTRIFIED HARDWARE EQUIPMENT.
H. HOW EACH DOOR THAT HAS ELECTRIFIED DOOR HARDWARE WILL NEED TO BE PROGRAMMED TO FUNCTION DURING BUSINESS HOURS, AFTER HOURS, SCHEDULED TIMES, LOCKDOWNS, EMERGENCY SITUATIONS, FIRE ALARMS, ETC.
I. THE FIRE ALARM INTERFACE WITH THE ACCESS CONTROL SYSTEM, AND THE EQUIPMENT THAT IS NEEDED.
J. WHICH WALLS IN THE DESIGNATED MDF/IDF ARE TO BE UTILIZED TO INSTALL THE ACCESS CONTROL HEAD-END PANEL(S) AND THE ELECTRIFIED DOOR HARDWARE POWER SUPPLIES.
K. CONFIRM WHICH EMERGENCY ELECTRICAL POWER CIRCUIT THE ACCESS CONTROL HEAD-END PANELS AND ELECTRIFIED DOOR HARDWARE POWER SUPPLIES WILL BE CIRCUITED TO.
L. THE DIV.28 CONTRACTOR WILL BE PROVIDING AND INSTALLING THE DOOR POSITION CONTACTS FOR THE ACCESS CONTROL SYSTEM.

2. (IP VIDEO SURVEILLANCE SYSTEM) PRIOR TO STARTING ANY WORK OR ROUGH-IN THE DIV.28 INSTALLATION CONTRACTOR SHALL COORDINATE A MEETING WITH THE OWNER(S) AND THE DIV.26 ELECTRICAL CONTRACTOR TO REVIEW & DISCUSS:
A. THE ROUGH-IN REQUIREMENTS FOR EACH IP SURVEILLANCE CAMERA.
B. EACH IP SURVEILLANCE CAMERA MOUNTING LOCATION, HEIGHTS, ORIENTATION, AND VIEW(S).
C. THE SPECIFIED CATEGORY CABLING, AND IT'S OUTER JACKETING COLOR.
D. THE SPECIFIED RACEWAY TO BE INSTALLED.
E. WHICH MDF/IDF ROOM AND TELECOMMUNICATIONS EQUIPMENT RACK WILL THE CAT6A CATEGORY CABLING AND THE VIDEO SURVEILLANCE EQUIPMENT NEED TO BE INSTALLED INTO.
F. ALL OF THE CORRECT AND NECESSARY HARDWARE AND MOUNTING EQUIPMENT FOR EACH IP SURVEILLANCE CAMERA AND VIDEO SURVEILLANCE EQUIPMENT.

3. PROVIDE ALL SPECIFIED AND NON-SPECIFIED COMPONENTS IN ORDER TO PROVIDE A COMPLETE AND A FULLY FUNCTIONAL ACCESS CONTROL AND IP VIDEO SURVEILLANCE SYSTEMS.

4. THE DIV.28 CONTRACTOR(S) SHALL CAREFULLY REVIEW THE REFLECTED CEILING PLANS, MILLWORK PLANS, AND ARCHITECTURAL ELEVATIONS FOR COMPONENT INSTALLATION.

5. THE DIV.28 ACCESS CONTROL CONTRACTOR SHALL CAREFULLY REVIEW THE DIV.8 DOOR HARDWARE SPECIFICATION AND SUBMITTALS AND SUMMARIZE ANY DISCREPANCIES IN WRITING TO THE TEAM.

6. EQUIPMENT COUNTS ARE PROVIDED FOR INFORMATION ONLY AT A CONVENIENCE TO THE CONTRACTOR. IT STILL REMAINS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY DRAWING QUANTITIES. IF A DISCREPANCY ARISES BETWEEN THE SCHEDULE COUNTS AND THE DRAWING COUNTS, THE HIGHEST QUANTITY SHALL BE INCLUDED IN THE BID.

7. PROVIDE FIRE ALARM INTERFACE TO UNLOCK ALL INDICATED LOCKS UPON ANY FIRE ALARM INITIATION.

8. THE SECURITY CONTRACTORS SHALL COORDINATE WITH THE ELECTRICAL CONTRACTOR PRIOR TO STARTING ANY WORK TO ENSURE A COMPLETE RACEWAY INSTALLATION IS PROVIDED AND CORRECTLY INSTALLED..

9. ALL CABLING TO END DEVICES THAT ARE INSTALLED WITHIN THE DOOR OR ON A DOOR FRAME MULLION SHALL BE ROUTED THROUGH THE MULLIONS. COORDINATE INSTALLATION WITH THE DOOR/WINDOW SYSTEM INSTALLER PRIOR TO ANY ROUGH-IN. MULLION MOUNTED CREDENTIAL CARD READERS DO NOT REQUIRE A BACK BOX.

10. THE ACCESS CONTROL SYSTEM SHALL INCLUDE ANY RELAYS, EXTERNAL POWER SUPPLIES, AUXILIARY DEVICES, AND INPUT/OUTPUT MODULES REQUIRED TO SUPPORT THE SPECIFIED DOOR TYPES, ENSURING A COMPLETE AND FUNCTIONING CARD READER AND DOOR CONTROL SYSTEM.

11. ALL FINAL CAMERA VIEWS MUST BE APPROVED BY THE OWNER BEFORE THE PROJECT'S COMPLETION.

12. ALL PENETRATIONS THROUGH FIRE-RATED FLOORS, WALLS, AND CEILINGS SHALL BE SEALED WITH APPROVED MATERIALS TO MAINTAIN THE FIRE RATING OF THE PENETRATED SURFACE.

13. COORDINATE WITH THE OWNER AND REFERENCE EACH MANUFACTURER'S SPECIFICATIONS AND INSTRUCTIONS AND THE CODE REQUIREMENTS FOR THE SETUP, PROGRAMMING, AND THE INTEGRATION BETWEEN THE VIDEO SURVEILLANCE SYSTEM, ACCESS CONTROL SYSTEM, FIRE ALARM SYSTEM, ADA EQUIPMENT, ETC.

14. THE DIV.28 VIDEO SURVEILLANCE CONTRACTOR SHALL PROVIDE AN INTERACTIVE MAP IN THE VIDEO SURVEILLANCE SYSTEM OPERATING/MANAGEMENT SOFTWARE WITH CAMERAS AND ACCESS CONTROL DEVICES.

15. THE INSTALLATION CONTRACTORS SHALL PROMPTLY NOTIFY THE OWNER AND THE ENGINEER PRIOR TO INSTALLATION OF ANY WORK IF ANY OF THE SECURITY DEVICE LOCATIONS THAT ARE SHOWN IN THE SECURITY DRAWINGS SHEET ARE OBSTRUCTED.

16. EQUIPMENT LISTS ARE PROVIDED TO SET EQUIPMENT EXPECTATIONS AND MAY NOT BE COMPLETE. COORDINATE WITH DEVICES SHOWN ON DRAWINGS, SYSTEM RISERS, SPECIFICATIONS, AND EQUIPMENT LIST FOR SYSTEM INTENT. PROVIDE COMPLETE AND FULLY FUNCTIONAL SYSTEMS AS DESCRIBED WITHIN THE CONSTRUCTION DOCUMENTS.

17. INSTALL AND PROGRAM THE ACCESS CONTROL SYSTEM AND THE IP VIDEO SURVEILLANCE SYSTEM TO THE MANUFACTURER'S INSTRUCTIONS AND SPECIFICATIONS, TO INDUSTRIES STANDARDS, AND TO THE OWNER'S REQUIREMENTS.

18. ALL SECURITY COMPONENTS MUST BE NEW, IN OEM FACTORY-SEALED CONTAINERS, WITH NO REWORKED OR REFURBISHED ITEMS.

ABBREVIATIONS INDEX

ABBREV.	DESCRIPTION	ABBREV.	DESCRIPTION
#	NUMBER	MAX	MAXIMUM
ACS	ACCESS CONTROL SYSTEM	MH	MANHOLE
AD	ACTIVE DIRECTORY	MIN	MINIMUM
A.F.F.	ABOVE FINISH FLOOR	MTG	MOUNTING
AM	AMPS METER	MP	MEGAPIXEL
AMP	AMPERE	N/A	NOT APPLICABLE
ANN	ANNUNCIATOR	NAS	NETWORK ATTACHED STORAGE
AoV	ANGLE OF VIEW	NC	NORMALLY CLOSED
AUX	AUXILIARY	NEC	NATIONAL ELECTRICAL CODE
AWG	AMERICAN WIRE GAUGE	NEMA	NATIONAL ELECT. MANUFAC. ASSOC.
BC	BARE COPPER	NFC	NATIONAL FIRE CODE
BFG	BELOW FINISH GRADE	NFPA	NATIONAL FIRE PROTECTION ASSOC.
C	CONDUIT	N.I.C.	NOT IN CONTRACT
CAB	CABINET	NO	NORMALLY OPENED
CAT	CATEGORY	NTS	NOT TO SCALE
CATB	COMMUNITY ANTENNA TELEVISION	NVR	NETWORK VIDEO RECORDER
CATV	CABLE TELEVISION	ONVIF	OPEN NETWORK VIDEO INTERFACE
CLG	CEILING	OSDP	OPEN SUPERVISED DEVICE PROTOCOL
CNTR	CONTRACTOR	PB	PUSHBUTTON
C.O.	CONDUIT ONLY	PNL	PANEL
CRT	COMPUTER TERMINAL	POE	POWER OVER ETHERNET
CSA	CLIENT SOFTWARE APPLICATION	PT	POTENTIAL TRANSFORMER
CU	COPPER	PTP	POINT TO POINT
C/W	COMPLETE WITH	PTZ	PAN TILT ZOOM
DB	DECIBEL	PVC	POLYVINYL CHLORIDE CONDUIT
VDC	DIRECT CURRENT	QoS	QUALITY OF SERVICE
DWG	DRAWING	(R)	RELOCATE
(E)	EXISTING	RAID	REDUNDANT ARRAY INEXPENSIVE DISKS
EC	EMPTY CONDUIT	RECEP	RECEPTACLE
EG	EMERGENCY GENERATOR	REQ	REQUIREMENT
EMT	ELECTRICAL METALLIC TUBING	RFID	RADIO FREQUENCY IDENTIFICATION
EOL	END OF LIFE	RLA	RATED LOAD AMPS
EX	EXPLOSION PROOF	RMS	ROOT MEAN SQUARE
FACP	FIRE ALARM CONTROL PANEL	SAAS	SOFTWARE AS A SERVICE
FPS	FRAMES PER SECOND	SDK	SOFTWARE DEVELOPMENT KIT
FOV	FIELD OF VIEW	SE	SERVICE ENTRANCE
FT	FOOT	SMS	SHORT MESSAGE SERVICE
GB	GIGABYTE	SPEC	SPECIFICATIONS
GND	GROUND	SS	SELECTOR SWITCH
GRC	GALVANIZED RIGID CONDUIT	SW	SWITCH
GUI	GRAPHICAL USER INTERFACE	TB	TERABYTE
HD	HIGH DEFINITION	TTB	TELEPHONE TERMINAL BOARD
HDD	HARD DISK DRIVE	TTC	TELEPHONE TERMINAL CABINET
HDMI	HIGH DEFINITION MULTI-MEDIA INTERFACE	TV	TELEVISION
HZ	HERTZ	TYP	TYPICAL
IDS	INTRUSION DETECTION SYSTEM	UG	UNDERGROUND
IMC	INTERMEDIATE METALLIC CONDUIT	UI	USER INTERFACE
IN	INCH	UP	UTAH POWER
I/O	INPUT/OUTPUT	UPS	UNINTERRUPTIBLE POWER SUPPLY
IP	INTERNET PROTOCOL	V	VOLT (KV-KILOVOLT)
IR	INFRARED	VMS	VIDEO MANAGEMENT SOFTWARE
J-BOX	JUNCTION BOX	VoIP	VOICE OVER INTERNET PROTOCOL
KV	KILOVOLT	VSS	VIDEO SURVEILLANCE SYSTEM
KVA	KILOVOLT AMPERES	W	WATTS
KW	KILOWATT	W/	WITH
LAN	LOCAL AREA NETWORK	WAN	WIDE AREA NETWORK
LDAP	LIGHTWEIGHT DIRECTORY ACCESS PROTOCOL	WDR	WIDE DYNAMIC RANGE
LTG	LIGHTING	W/O	WITHOUT
LPR	LICENSE PLATE RECOGNITION	WP	WEATHERPROOF
MNF	MANUFACTURER	XFMR	TRANSFORMER
MATV	MASTER ANTENNA TELEVISION		

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VBFA BNA JOINING FORCES 2025

CACHE COUNTY SCHOOL DISTRICT

HYDE PARK ELEMENTARY SCHOOL
333 EAST 300 NORTH
HYDE PARK CITY, UT
84318

DRAWING BID SET
ISSUE 03/25/2025
NWL 0119.002

PROFESSIONAL ENGINEER 3/25/2025 BRIAN HICKS No. 7709037-2202 STATE OF UTAH

DATE	REVISION
X3 4/7/2025	ADDENDUM #3

SYSTEM SCHEDULES & NOTES

E400

MAIN LEVEL SYSTEMS PLAN - AREA A
SCALE = 1/8" = 1'-0"

GENERAL SYSTEM SHEET NOTES

FIRE ALARM SYSTEM:

•PROVIDE A VOICE/EVAC FIRE ALARM SYSTEM PER SPECIFICATIONS AND CCSD REQUIREMENTS. FIRE ALARM DEVICES SHOWN ARE FOR REFERENCE ONLY AND BASED UPON A PERFORMANCE SPECIFICATION. A LICENSED FIRE ALARM ENGINEER MUST PROVIDE AND STAMP ALL NEW EQUIPMENT/DEVICE QUANTITIES, LOCATIONS, AND NATIONAL & LOCAL CODE COMPLIANCE IN THE FIRE ALARM CONTRACTOR'S BID. DEVICES SHOWN ON THESE DRAWINGS ARE NOT FINAL DESIGN DOCUMENTS.
•PROVIDE RED CONDUIT AND BOXES FOR ALL FIRE ALARM RACEWAY AND INFRASTRUCTURE.
•PROVIDE #14 AWG MINIMUM WIRING FOR ALL SIGNAL AND INITIATION DEVICES.
•ALL BACK BOXES SHALL BE FLUSH MOUNTED UNLESS OTHERWISE NOTED. COORDINATE CONDUIT AND BACK BOX INSTALLATION IN VARIOUS WALL TYPES.
•COORDINATE FIRE SPRINKLER SYSTEM TAMPER AND FLOW SWITCH QUANTITIES/LOCATIONS WITH FIRE SPRINKLER DRAWINGS AND CONNECT THEM TO THE FIRE ALARM SYSTEM.
•COORDINATE DUCT SMOKE DETECTOR LOCATIONS/QUANTITIES WITH THE MECHANICAL CONTRACTOR. HARDWIRE TO RELAY STARTER. PROVIDE TWO DUCT-TYPE SMOKE DETECTORS FOR EACH FCU, AHU, SUPPLY FAN, AND HEAT PUMP OF 2000 CFM OR GREATER. DUCT DETECTORS SHALL BE WITHIN 5'-0" OF EACH FIRE/SMOKE DAMPER.
•PROVIDE FIRE ALARM AND ACCESS CONTROL INTERFACE TO UNLOCK INDICATED LOCKS UPON FIRE ALARM INITIATION.
•ALL VISUAL DEVICES SHALL BE SYNCHRONIZED WITHIN THE BUILDING.
•REFER TO THE ARCHITECTURAL DOOR SCHEDULE FOR MAGNETIC DOOR HOLDER AND BLOW-OPEN DOOR REQUIREMENTS.
•PROVIDE FIRE ALARM RELAY MODULES FOR ALL DOORS WITH ACCESS CONTROL DEVICES.
•DEVICES INDICATED ON THE FIRE ALARM ONE-LINE ARE FOR REFERENCE ONLY. REFER TO PLAN DRAWINGS AND SPECIFICATIONS FOR QUANTITIES.
•PROVIDE 120V CIRCUIT FROM THE NEAREST EQUIPMENT BRANCH PANELBOARD FOR FIRE/SMOKE DAMPER RELAYS/JUNCTION BOXES (J-BOXES). PROVIDE FIRE ALARM MODULES AND RELAYS AS NECESSARY FOR ALL FIRE/SMOKE DAMPERS SHOWN ON DIVISION 23 DRAWINGS. ALL FIRE/SMOKE DAMPERS SHALL HAVE A MANUAL OVERRIDE SWITCH. REFER TO DIAGRAM D012.

ACCESS CONTROL:

•ACCESS CONTROL SYSTEM CABLING SHALL RUN BACK TO CENTRALLY LOCATED HEAD-END/SLAVE PANELS AND POWER SUPPLIES IN MDF/IDF ROOMS. ALTERNATE CONFIGURATIONS REQUIRE WRITTEN APPROVAL AND REVISED DRAWINGS. EACH ACCESS CONTROL PANEL SHALL HAVE A 4X8' FIRE-RATED PLYWOOD BACKER AND SUFFICIENT CONTROLLER BOARDS.
•THE ACCESS CONTROL SYSTEM SHALL INCLUDE NECESSARY RELAYS, EXTERNAL POWER SUPPLIES, AUXILIARY DEVICES, OR I/O MODULES. REQUEST TO EXIT, DOOR CONTACT, AND INDICATOR CIRCUITS SHALL BE SUPERVISED FOR FAULTS.
•COORDINATE CREDENTIAL CARD READER AND ADA CONTROL STATION LOCATIONS WITH ARCHITECTURAL & SYSTEM DRAWINGS. PROVIDE ALL REQUIRED CREDENTIAL CARD READER LOCATIONS.
•COORDINATE ALL DOOR HARDWARE WITH DIVISION 8 (LOCK TYPES, POWER SUPPLIES, ETC.). REVIEW THE DOOR HARDWARE SUBMITTAL AND SUMMARIZE DISCREPANCIES.
•PROVIDE RACEWAY, CONDUIT, AND WIRING FOR INDICATED SECURITY DEVICES. PROVIDE CONCEALED 3/4" CONDUIT AND REQUIRED CABLING. COORDINATE JUNCTION BOX ROUGH-IN LOCATIONS WITH THE OWNER AND ACCESS SYSTEM SUPPLIER.
•CABLING TO DEVICES IN DOORS/MULLIONS SHALL BE ROUTED THROUGH THE MULLIONS. COORDINATE WITH THE WINDOW SYSTEM INSTALLER.
•ELECTRONIC LOCKING HARDWARE (MAG LOCKS, ELECTRIC STRIKES, CRASH BARS, ETC.) IS BY DIVISION 8. VERIFY LOCK VOLTAGES AND FUNCTIONALITY. POWER SUPPLIES FOR THESE DEVICES ARE BY DIVISION 28. COORDINATE POWER REQUIREMENTS WITH DIVISION 8.
•PROVIDE ONE 4 SQ. J-BOX WITH COVER ON THE PROTECTED SIDE OF THE DOORWAY IN AN ACCESSIBLE CEILING SPACE (OR OTHER ACCESSIBLE LOCATION) AND A HANDY BOX IN THE DOOR JAMB (MOUNTED BEFORE GROUTING). DRILL A 1/8" PILOT HOLE FOR DEVICE MOUNTING.
•ALL EXTERIOR DOORS, ROOF HATCHES/ACCESS DOORS, MDF/IDF ROOMS, RISER ROOMS, AND DOORS WITH CREDENTIAL CARD READERS REQUIRE AD DOOR POSITION SWITCH/CONTACT TERMINATING TO THE ACCESS CONTROL SYSTEM.

IP VIDEO SURVEILLANCE SYSTEM:

•THE NVR, VMS, POE SWITCHES, AND SERVERS WILL BE OWNER-FURNISHED AND OWNER-INSTALLED.
•ALL OF THE IP SURVEILLANCE CAMERAS AND MOUNTING HARDWARE / EQUIPMENT WILL BE CONTRACTOR-FURNISHED AND CONTRACTOR INSTALLED.
•ALL SECURITY CAMERAS SHALL HAVE ONE CAT6A ORANGE CABLE INSTALLED WITH A 10'-0" SERVICE LOOP AT EACH CAMERA LOCATION AND BACK TO THE MDF/IDF ROOMS.
•ALL PENETRATIONS OF FIRE-RATED FLOORS, WALLS, AND CEILINGS SHALL BE SEALED TO MAINTAIN THE FIRE RATING.
•PRIOR TO STARTING ANY WORK CONTRACTORS SHALL VERIFY ALL IP SURVEILLANCE CAMERA ROUGH-IN REQUIREMENTS, THE CAMERA EXTERIOR HOUSING COLOR, THE MOUNTING LOCATIONS, MOUNTING HEIGHTS, [illegible]
X3 •ALL IP SURVEILLANCE CAMERA HOUSINGS AND MOUNTING BRACKETS SHALL BE PAINTED BY THE INSTALLATION CONTRACTOR. AND PRIOR TO STARTING ANY WORK, THE CONTRACTOR SHALL COORDINATE WITH THE OWNER AND ARCHITECT TO DETERMINE THE REQUIRED PAINT COLORS.

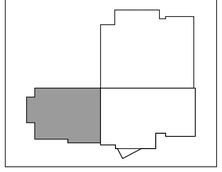
GENERAL:

•CONTRACTORS SHALL CAREFULLY REVIEW REFLECTED CEILING PLANS, ARCHITECTURAL ELEVATIONS, AND MILLWORK DRAWINGS.
•COORDINATE WITH THE ELECTRICAL CONTRACTOR PRIOR TO ROUGH-IN.
•REFER TO SPECIFICATIONS FOR SYSTEM INTEGRATIONS (VIDEO MANAGEMENT, ACCESS CONTROL, FIRE ALARM).
•ALL CABLING TO DEVICES ON DOOR FRAMES OR MULLIONS SHALL BE ROUTED THROUGH THEM. COORDINATE WITH THE DOOR/WINDOW CONTRACTOR.
•REFER TO SPECIFICATIONS FOR INTEGRATION & TIE-IN REQUIREMENTS BETWEEN SYSTEMS.
•SECURITY INTEGRATOR SHALL CAREFULLY REVIEW REFLECTED CEILING PLANS, ARCHITECTURAL ELEVATIONS, AND MILLWORK DRAWINGS.
•CONTRACTORS SHALL PROVIDE SEPARATE COMPUTER-DRAFTED SHOP DRAWINGS FOR THE ENTIRE FIRE ALARM, ACCESS CONTROL, AND VIDEO SURVEILLANCE SYSTEMS, INCLUDING ALL REQUIRED INFORMATION. TYPICAL RISERS AND COPYING THE CONTRACT DOCUMENTS ARE NOT ACCEPTABLE.

SHEET KEYNOTES

Y7	IP SURVEILLANCE CAMERAS MOUNTING ON EXTERIOR CORNERS OF THE BUILDING REFER TO DIAGRAM A1 ON SHEET/PAGE A921, AND DIAGRAM EY403 ON SHEET/PAGE E431.

KEY PLAN LEVEL 01



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SAVE DATE - 31-02-2024

VBFA JOINING FORCES BNA 2025

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333 EAST 300 NORTH
HYDE PARK CITY, UT
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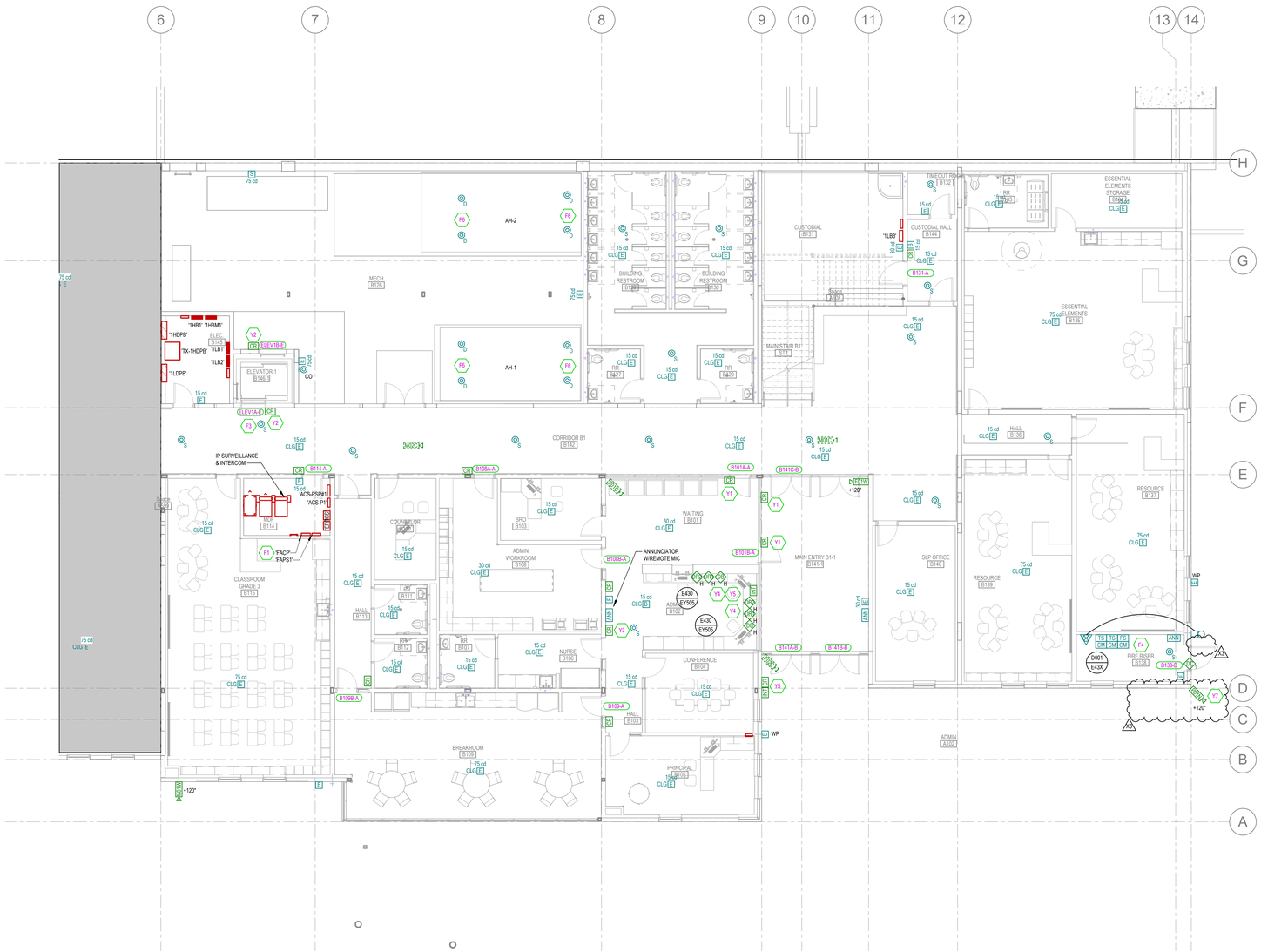
DRAWING ISSUE	BID SET 02/25/2025
NWL	0119.002

PROFESSIONAL ENGINEER 3/25/2025 BRIAN HICKS No. 7109037-2202 STATE OF UTAH

	DATE	REVISION
X3	4/7/2025	ADDENDUM #3

MAIN LEVEL SYSTEMS PLAN - AREA A

E411



MAIN LEVEL SYSTEMS PLAN - AREA B

SCALE = 1/8" = 1'-0"

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•PROVIDE RACEWAY, CONDUIT, AND WIRING FOR INDICATED SECURITY DEVICES. PROVIDE CONCEALED 3/4" CONDUIT AND REQUIRED CABLING. COORDINATE JUNCTION BOX ROUGH-IN LOCATIONS WITH THE OWNER AND ACCESS SYSTEM SUPPLIER.
•CABLING TO DEVICES IN DOORS/MULLIONS SHALL BE ROUTED THROUGH THE MULLIONS. COORDINATE WITH THE WINDOW SYSTEM INSTALLER.
•ELECTRONIC LOCKING HARDWARE (MAG LOCKS, ELECTRIC STRIKES, CRASH BARS, ETC.) IS BY DIVISION 8. VERIFY LOCK VOLTAGES AND FUNCTIONALITY. POWER SUPPLIES FOR THESE DEVICES ARE BY DIVISION 28. COORDINATE POWER REQUIREMENTS WITH DIVISION 8.
•PROVIDE ONE 4 SQ. J-BOX WITH COVER ON THE PROTECTED SIDE OF THE DOORWAY IN AN ACCESSIBLE CEILING SPACE (OR OTHER ACCESSIBLE LOCATION) AND A HANDY BOX IN THE DOOR JAMB (MOUNTED BEFORE GROUTING). DRILL A 1/8" PILOT HOLE FOR DEVICE MOUNTING.
•ALL EXTERIOR DOORS, ROOF HATCHES/ACCESS DOORS, MDF/IDF ROOMS, RISER ROOMS, AND DOORS WITH CREDENTIAL CARD READERS REQUIRE AD DOOR POSITION SWITCH/CONTACT TERMINATING TO THE ACCESS CONTROL SYSTEM.

IP VIDEO SURVEILLANCE SYSTEM:

•THE NVR, VMS, POE SWITCHES, AND SERVERS WILL BE OWNER-FURNISHED AND OWNER-INSTALLED.
•ALL OF THE IP SURVEILLANCE CAMERAS AND MOUNTING HARDWARE / EQUIPMENT WILL BE CONTRACTOR-FURNISHED AND CONTRACTOR INSTALLED.
•ALL SECURITY CAMERAS SHALL HAVE ONE CAT6A ORANGE CABLE INSTALLED WITH A 10'-0" SERVICE LOOP AT EACH CAMERA LOCATION AND BACK TO THE MDF/IDF ROOMS.
•ALL PENETRATIONS OF FIRE-RATED FLOORS, WALLS, AND CEILINGS SHALL BE SEALED TO MAINTAIN THE FIRE RATING.
•PRIOR TO STARTING ANY WORK CONTRACTORS SHALL VERIFY ALL IP SURVEILLANCE CAMERA ROUGH-IN REQUIREMENTS, THE CAMERA EXTERIOR HOUSING COLOR, THE MOUNTING LOCATIONS, MOUNTING HEIGHTS, [illegible]
•ALL IP SURVEILLANCE CAMERA HOUSINGS AND MOUNTING BRACKETS SHALL BE PAINTED BY THE INSTALLATION CONTRACTOR. AND PRIOR TO STARTING ANY WORK, THE CONTRACTOR SHALL COORDINATE WITH THE OWNER AND ARCHITECT TO DETERMINE THE REQUIRED PAINT COLORS.

GENERAL:

•CONTRACTORS SHALL CAREFULLY REVIEW REFLECTED CEILING PLANS, ARCHITECTURAL ELEVATIONS, AND MILLWORK DRAWINGS.
•COORDINATE WITH THE ELECTRICAL CONTRACTOR PRIOR TO ROUGH-IN.
•REFER TO SPECIFICATIONS FOR SYSTEM INTEGRATIONS (VIDEO MANAGEMENT, ACCESS CONTROL, FIRE ALARM).
•ALL CABLING TO DEVICES ON DOOR FRAMES OR MULLIONS SHALL BE ROUTED THROUGH THEM. COORDINATE WITH THE DOOR/WINDOW CONTRACTOR.
•REFER TO SPECIFICATIONS FOR INTEGRATION & TIE-IN REQUIREMENTS BETWEEN SYSTEMS.
•SECURITY INTEGRATOR SHALL CAREFULLY REVIEW REFLECTED CEILING PLANS, ARCHITECTURAL ELEVATIONS, AND MILLWORK DRAWINGS.
•CONTRACTORS SHALL PROVIDE SEPARATE COMPUTER-DRAFTED SHOP DRAWINGS FOR THE ENTIRE FIRE ALARM, ACCESS CONTROL, AND VIDEO SURVEILLANCE SYSTEMS, INCLUDING ALL REQUIRED INFORMATION. TYPICAL RISERS AND COPYING THE CONTRACT DOCUMENTS ARE NOT ACCEPTABLE.

SHEET KEYNOTES

F1 DIVISION 26 CONTRACTOR SHALL PROVIDE A COMPLETE AND FULLY FUNCTIONAL NOTIFIER MODEL NF52-3030 FIRE ALARM SYSTEM THROUGHOUT THE ELEMENTARY BUILDING. ALL FIRE ALARM DEVICES SHOWN ARE FOR REFERENCE ONLY. THE SYSTEM AND DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH SPECIFICATION 28 3111, UTAH STATE FIRE MARSHAL REQUIREMENTS, AND CACHE COUNTY SCHOOL DISTRICT REQUIREMENTS. SYSTEM SHALL BE TESTED, PROGRAMMED, AND CERTIFIED UPON COMPLETION.

F3 SEE SPECIFICATIONS 26 0510 (ELEVATOR ELECTRICAL REQUIREMENTS) FOR FIRE ALARM SYSTEM AND ELEVATOR INTEGRATION E.G. LOBBIES, HOISTWAYS, ELEVATOR ROOMS, ETC. PROVIDE REQUIRED DEVICES, DISCONNECTS, AND SYSTEM CONNECTIONS AS REQUIRED.

F4 FIRE RISER LOCATION. PROVIDE REQUIRED QUANTITY OF MONITOR MODULES, CONTROL MODULES, TAMPER SWITCHES, AND FLOW SWITCHES FOR A COMPLETE AND WORKING SYSTEM. REVIEW FIRE PROTECTION DRAWINGS PRIOR TO BIDDING.

F6 PROVIDE FIRE ALARM SYSTEM DUCT DETECTOR(S) AS REQUIRED. COORDINATE WITH DIVISION 23 CONTRACTOR FOR THE QUANTITY AND FOR MOUNTING IN MECHANICAL UNIT DUCT WORK.

Y1 CREDENTIAL CARD READER INSTALLED ON THE DOOR FRAME OR MULLION THE CABLING SHALL BE ROUTED THROUGH THE DOOR FRAME AND MULLION TO ENSURE A CLEAN AND SECURE INSTALLATION. NO EXPOSED CONDUIT OR CABLING IS PERMITTED. COORDINATE INSTALLATION LOCATIONS WITH THE OWNER AND THE DOOR / WINDOW INSTALLER PRIOR TO ANY ROUGH-IN. MULLION MOUNTED CREDENTIAL CARD READERS DO NOT REQUIRE A JUNCTION BACKBOX. REFER TO THE MANUFACTURER'S SPECIFICATION REQUIREMENTS FOR THE NECESSARY CABLING.

Y2 BEFORE STARTING ANY WORK OR ROUGH-IN, THE ACCESS CONTROL CONTRACTOR MUST COORDINATE A MEETING WITH THE OWNER AND THE ELEVATOR CONTRACTOR TO REVIEW THE PLANS AND CONFIRM THE EXACT MOUNTING LOCATIONS AND OPERATIONAL REQUIREMENTS FOR THE ELEVATOR CREDENTIAL CARD READER. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE SPECIFIED RACEWAY AND ALL NECESSARY CABLING TO CONNECT THE ELEVATOR CREDENTIAL CARD READER TO THE ACCESS CONTROL SYSTEM AND INTEGRATE IT WITH THE ELEVATOR CONTROL SYSTEM. THE CONTRACTOR MUST ENSURE THE INSTALLATION OF A COMPLETE AND FULLY FUNCTIONAL SYSTEM THAT INTEGRATES SEAMLESSLY WITH BOTH THE ACCESS CONTROL AND ELEVATOR CONTROL SYSTEMS, MEETS THE MANUFACTURER'S SPECIFICATIONS, AND COMPLIES WITH THE OWNER'S REQUIREMENTS.

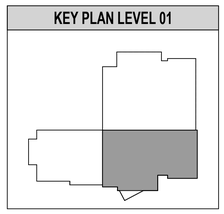
Y3 BEFORE BEGINNING ANY WORK OR ROUGH-IN, THE CONTRACTOR SHALL COORDINATE A MEETING WITH THE OWNER TO REVIEW PLANS AND MILLWORK DRAWINGS, CONFIRM THE EXACT MOUNTING LOCATION, AND VERIFY OPERATIONAL REQUIREMENTS FOR THE SCHOOL LOCKDOWN CREDENTIAL CARD READER. THIS READER SHALL BE INSTALLED WITH AN STI UNIVERSAL STOPPER PROTECTIVE COVER AND A 12V RED LED INDICATOR LIGHT ON A SINGLE-GANG FACEPLATE, MOUNTED ADJACENT TO THE READER, TO INDICATE WHEN THE READER HAS BEEN TRIGGERED.

Y4 BEFORE STARTING ANY WORK OR ROUGH-IN, THE CONTRACTOR MUST COORDINATE A MEETING WITH THE OWNER TO REVIEW THE PLANS AND MILLWORK DRAWINGS TO CONFIRM THE EXACT MOUNTING LOCATIONS AND OPERATIONAL REQUIREMENTS FOR THE DOOR RELEASE BUTTONS AND DURESS/PANIC BUTTONS LOCATED ON THE ADMIN DESK IN AREA #B102. THE DOOR RELEASE BUTTON 1 WILL CONTROL DOOR #B101B, AND DOOR RELEASE BUTTON 2 WILL CONTROL DOOR #B101A. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE SPECIFIED RACEWAY AND ALL NECESSARY CABLING TO CONNECT THE DOOR RELEASE AND DURESS/PANIC BUTTONS TO THE ACCESS CONTROL SYSTEM. THE CONTRACTOR MUST ENSURE THE INSTALLATION OF A COMPLETE AND FULLY FUNCTIONAL DOOR RELEASE AND DURESS/PANIC BUTTON SYSTEM THAT INTEGRATES WITH THE ACCESS CONTROL SYSTEM, MEETS THE MANUFACTURER'S SPECIFICATIONS, AND COMPLIES WITH THE OWNER'S REQUIREMENTS.

Y5 BEFORE STARTING ANY WORK OR ROUGH-IN, THE CONTRACTOR SHALL COORDINATE A MEETING WITH THE OWNER TO REVIEW PLANS AND MILLWORK DRAWINGS, CONFIRM EXACT MOUNTING LOCATIONS AND HEIGHTS, AND VERIFY OPERATIONAL REQUIREMENTS FOR THE 2N IP VERSO 2.0 TWO-WAY AUDIO VIDEO INTERCOM DOOR STATIONS WITH CREDENTIAL CARD READERS, AND THE 2N INDOOR VIEW ANSWERING BASE STATIONS. THE CONTRACTOR SHALL PROVIDE THE REQUIRED RACEWAY, INCLUDING PULLING TWINE AND ALL NECESSARY CABLING, TO CONNECT THE INTERCOM SYSTEM TO THE ACCESS CONTROL SYSTEM. IP VIDEO SURVEILLANCE SYSTEM, AND SCHOOL NETWORK. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING A COMPLETE, FULLY FUNCTIONAL INTERCOM SYSTEM THAT INTEGRATES WITH ACCESS CONTROL AND VIDEO SURVEILLANCE SYSTEMS, MEETS THE MANUFACTURER'S SPECIFICATIONS, AND COMPLIES WITH THE OWNER'S REQUIREMENTS.

Y7 IP SURVEILLANCE CAMERAS MOUNTING ON EXTERIOR CORNERS OF THE BUILDING REFER TO DIAGRAM A1 ON SHEET/PAGE A921, AND DIAGRAM EY403 ON SHEET/PAGE E431.

KEY PLAN LEVEL 01



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VBFA BNA JOINING FORCES 2025

CACHE COUNTY SCHOOL DISTRICT

HYDE PARK ELEMENTARY SCHOOL
333 EAST 300 NORTH
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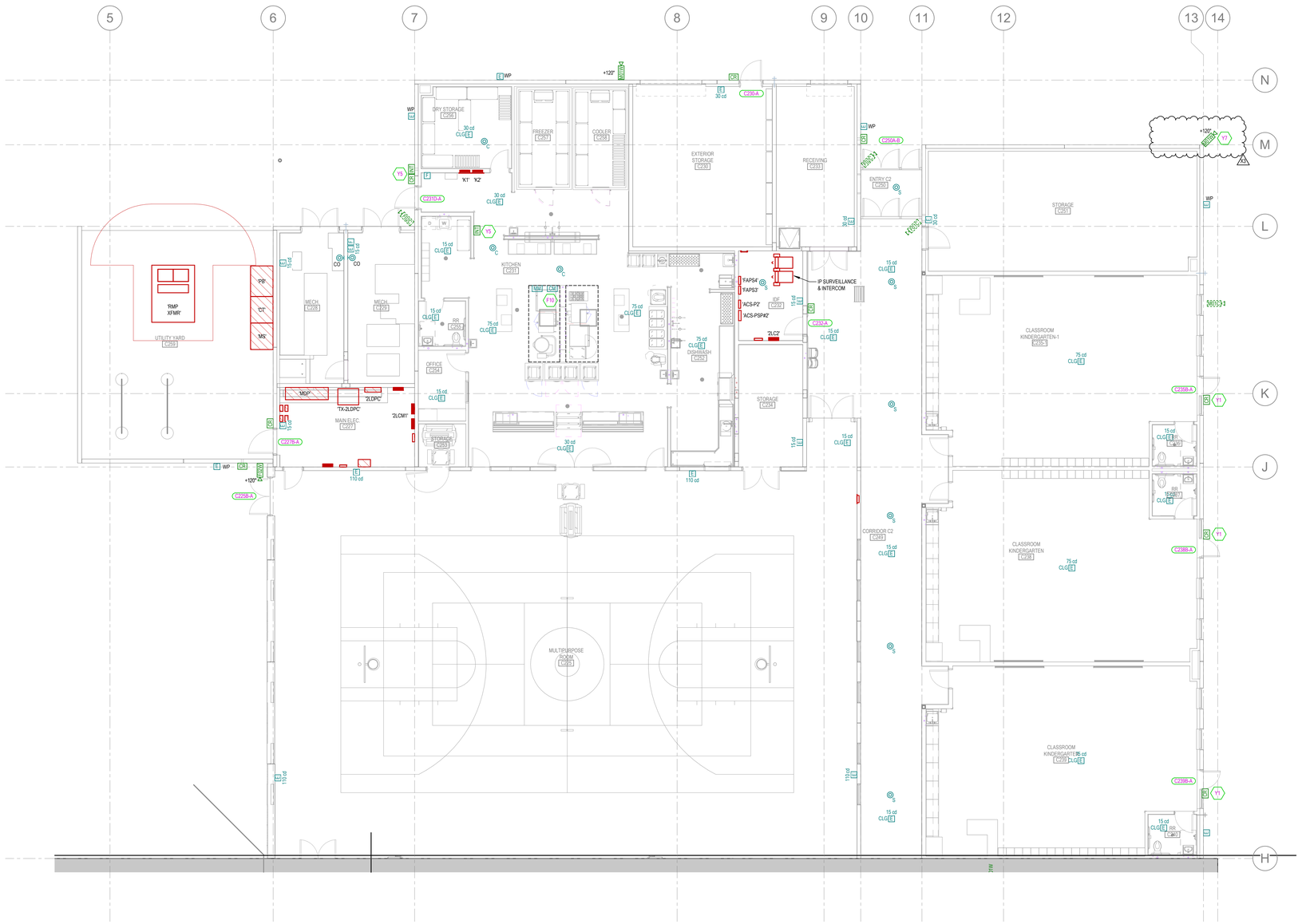
DRAWING ISSUE	BID SET 02/25/2025
NWL	D119.002

PROFESSIONAL ENGINEER 3/25/2025 BRIAN HICKS No. 7109037-2202 STATE OF UTAH

	DATE	REVISION
X3	4/7/2025	ADDENDUM #3

MAIN LEVEL SYSTEMS PLAN - AREA B

E412



SECOND LEVEL SYSTEMS PLAN - AREA C

SCALE = 1/8" = 1'-0"

GENERAL SYSTEM SHEET NOTES

FIRE ALARM SYSTEM:

•PROVIDE A VOICE/EVAC FIRE ALARM SYSTEM PER SPECIFICATIONS AND CCSD REQUIREMENTS. FIRE ALARM DEVICES SHOWN ARE FOR REFERENCE ONLY AND BASED UPON A PERFORMANCE SPECIFICATION. A LICENSED FIRE ALARM ENGINEER MUST PROVIDE AND STAMP ALL NEW EQUIPMENT/DEVICE QUANTITIES, LOCATIONS, AND NATIONAL & LOCAL CODE COMPLIANCE IN THE FIRE ALARM CONTRACTOR'S BID. DEVICES SHOWN ON THESE DRAWINGS ARE NOT FINAL DESIGN DOCUMENTS.
•PROVIDE RED CONDUIT AND BOXES FOR ALL FIRE ALARM RACEWAY AND INFRASTRUCTURE.
•PROVIDE #14 AWG MINIMUM WIRING FOR ALL SIGNAL AND INITIATION DEVICES.
•ALL BACK BOXES SHALL BE FLUSH MOUNTED UNLESS OTHERWISE NOTED. COORDINATE CONDUIT AND BACK BOX INSTALLATION IN VARIOUS WALL TYPES.
•COORDINATE FIRE SPRINKLER SYSTEM TAMPER AND FLOW SWITCH QUANTITIES/LOCATIONS WITH FIRE SPRINKLER DRAWINGS AND CONNECT THEM TO THE FIRE ALARM SYSTEM.
•COORDINATE DUCT SMOKE DETECTOR LOCATIONS/QUANTITIES WITH THE MECHANICAL CONTRACTOR. HARDWIRE TO RELAY STARTER. PROVIDE TWO DUCT-TYPE SMOKE DETECTORS FOR EACH FCU, AHU, SUPPLY FAN, AND HEAT PUMP OF 2000 CFM OR GREATER. DUCT DETECTORS SHALL BE WITHIN 5-0" OF EACH FIRE/SMOKE DAMPER.
•PROVIDE FIRE ALARM AND ACCESS CONTROL INTERFACE TO UNLOCK INDICATED LOCKS UPON FIRE ALARM INITIATION.
•ALL VISUAL DEVICES SHALL BE SYNCHRONIZED WITHIN THE BUILDING.
•REFER TO THE ARCHITECTURAL DOOR SCHEDULE FOR MAGNETIC DOOR HOLDER AND BLOW-OPEN DOOR REQUIREMENTS.
•PROVIDE FIRE ALARM RELAY MODULES FOR ALL DOORS WITH ACCESS CONTROL DEVICES.
•DEVICES INDICATED ON THE FIRE ALARM ONE-LINE ARE FOR REFERENCE ONLY. REFER TO PLAN DRAWINGS AND SPECIFICATIONS FOR QUANTITIES.
•PROVIDE 120V CIRCUIT FROM THE NEAREST EQUIPMENT BRANCH PANELBOARD FOR FIRE/SMOKE DAMPER RELAYS/JUNCTION BOXES (J-BOXES). PROVIDE FIRE ALARM MODULES AND RELAYS AS NECESSARY FOR ALL FIRE/SMOKE DAMPERS SHOWN ON DIVISION 23 DRAWINGS. ALL FIRE/SMOKE DAMPERS SHALL HAVE A MANUAL OVERRIDE SWITCH. REFER TO DIAGRAM D012.

ACCESS CONTROL:

•ACCESS CONTROL SYSTEM CABLING SHALL RUN BACK TO CENTRALLY LOCATED HEAD-END/SLAVE PANELS AND POWER SUPPLIES IN MDF/IDF ROOMS. ALTERNATE CONFIGURATIONS REQUIRE WRITTEN APPROVAL AND REVISED DRAWINGS. EACH ACCESS CONTROL PANEL SHALL HAVE A 4X8' FIRE-RATED PLYWOOD BACKER AND SUFFICIENT CONTROLLER BOARDS.
•THE ACCESS CONTROL SYSTEM SHALL INCLUDE NECESSARY RELAYS, EXTERNAL POWER SUPPLIES, AUXILIARY DEVICES, OR I/O MODULES. REQUEST TO EXIT, DOOR CONTACT, AND INDICATOR CIRCUITS SHALL BE SUPERVISED FOR FAULTS.
•COORDINATE CREDENTIAL CARD READER AND ADA CONTROL STATION LOCATIONS WITH ARCHITECTURAL & SYSTEM DRAWINGS. PROVIDE ALL REQUIRED CREDENTIAL CARD READER LOCATIONS.
•COORDINATE ALL DOOR HARDWARE WITH DIVISION 8 (LOCK TYPES, POWER SUPPLIES, ETC.). REVIEW THE DOOR HARDWARE SUBMITTAL AND SUMMARIZE DISCREPANCIES.
•PROVIDE RACEWAY, CONDUIT, AND WIRING FOR INDICATED SECURITY DEVICES. PROVIDE CONCEALED 3/4" CONDUIT AND REQUIRED CABLING. COORDINATE JUNCTION BOX ROUGH-IN LOCATIONS WITH THE OWNER AND ACCESS SYSTEM SUPPLIER.
•CABLING TO DEVICES IN DOORS/MULLIONS SHALL BE ROUTED THROUGH THE MULLIONS. COORDINATE WITH THE WINDOW SYSTEM INSTALLER.
•ELECTRONIC LOCKING HARDWARE (MAG LOCKS, ELECTRIC STRIKES, CRASH BARS, ETC.) IS BY DIVISION 8. VERIFY LOCK VOLTAGES AND FUNCTIONALITY. POWER SUPPLIES FOR THESE DEVICES ARE BY DIVISION 28. COORDINATE POWER REQUIREMENTS WITH DIVISION 8.
•PROVIDE ONE 4 SQ. J-BOX WITH COVER ON THE PROTECTED SIDE OF THE DOORWAY IN AN ACCESSIBLE CEILING SPACE (OR OTHER ACCESSIBLE LOCATION) AND A HANDY BOX IN THE DOOR JAMB (MOUNTED BEFORE GROUTING). DRILL A 1/8" PILOT HOLE FOR DEVICE MOUNTING.
•ALL EXTERIOR DOORS, ROOF HATCHES/ACCESS DOORS, MDF/IDF ROOMS, RISER ROOMS, AND DOORS WITH CREDENTIAL CARD READERS REQUIRE AD DOOR POSITION SWITCH/CONTACT TERMINATING TO THE ACCESS CONTROL SYSTEM.

IP VIDEO SURVEILLANCE SYSTEM:

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•ALL OF THE IP SURVEILLANCE CAMERAS AND MOUNTING HARDWARE / EQUIPMENT WILL BE CONTRACTOR-FURNISHED AND CONTRACTOR INSTALLED.
•ALL SECURITY CAMERAS SHALL HAVE ONE CAT6A ORANGE CABLE INSTALLED WITH A 10'-0" SERVICE LOOP AT EACH CAMERA LOCATION AND BACK TO THE MDF/IDF ROOMS.
•ALL PENETRATIONS OF FIRE-RATED FLOORS, WALLS, AND CEILINGS SHALL BE SEALED TO MAINTAIN THE FIRE RATING.
•PRIOR TO STARTING ANY WORK CONTRACTORS SHALL VERIFY ALL IP SURVEILLANCE CAMERA ROUGH-IN REQUIREMENTS, THE CAMERA EXTERIOR HOUSING COLOR, THE MOUNTING LOCATIONS, MOUNTING HEIGHTS, ~~PRESENTATION, AND SITE SIGHTLINES. PRIOR TO STARTING ANY WORK, THE CONTRACTOR SHALL COORDINATE WITH THE OWNER AND ARCHITECT TO DETERMINE THE REQUIRED PAINT COLORS.~~ A3
•ALL IP SURVEILLANCE CAMERA HOUSINGS AND MOUNTING BRACKETS SHALL BE PAINTED BY THE INSTALLATION CONTRACTOR. AND PRIOR TO STARTING ANY WORK, THE CONTRACTOR SHALL COORDINATE WITH THE OWNER AND ARCHITECT TO DETERMINE THE REQUIRED PAINT COLORS.

GENERAL:

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•COORDINATE WITH THE ELECTRICAL CONTRACTOR PRIOR TO ROUGH-IN.
•REFER TO SPECIFICATIONS FOR SYSTEM INTEGRATIONS (VIDEO MANAGEMENT, ACCESS CONTROL, FIRE ALARM).
•ALL CABLING TO DEVICES ON DOOR FRAMES OR MULLIONS SHALL BE ROUTED THROUGH THEM. COORDINATE WITH THE DOOR/WINDOW CONTRACTOR.
•REFER TO SPECIFICATIONS FOR INTEGRATION & TIE-IN REQUIREMENTS BETWEEN SYSTEMS.
•SECURITY INTEGRATOR SHALL CAREFULLY REVIEW REFLECTED CEILING PLANS, ARCHITECTURAL ELEVATIONS, AND MILLWORK DRAWINGS.
•CONTRACTORS SHALL PROVIDE SEPARATE COMPUTER-DRAFTED SHOP DRAWINGS FOR THE ENTIRE FIRE ALARM, ACCESS CONTROL, AND VIDEO SURVEILLANCE SYSTEMS, INCLUDING ALL REQUIRED INFORMATION. TYPICAL RISERS AND COPYING THE CONTRACT DOCUMENTS ARE NOT ACCEPTABLE.

SHEET KEYNOTES

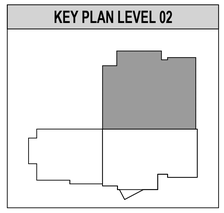
F10 PROVIDE ALL FIRE ALARM MAU/EXHAUST CONTROL, AND AUX CONNECTIONS/TERMINATIONS AT UDS AND HOOD AS REQUIRED BY MANUFACTURER.

Y1 CREDENTIAL CARD READER INSTALLED ON THE DOOR FRAME OR MULLION THE CABLING SHALL BE ROUTED THROUGH THE DOOR FRAME AND MULLION TO ENSURE A CLEAN AND SECURE INSTALLATION. NO EXPOSED CONDUIT OR CABLING IS PERMITTED. COORDINATE INSTALLATION LOCATIONS WITH THE OWNER AND THE DOOR / WINDOW INSTALLER PRIOR TO ANY ROUGH-IN. MULLION MOUNTED CREDENTIAL CARD READERS DO NOT REQUIRE A JUNCTION BACKBOX. REFER TO THE MANUFACTURER'S SPECIFICATION REQUIREMENTS FOR THE NECESSARY CABLING.

Y5 BEFORE STARTING ANY WORK OR ROUGH-IN, THE CONTRACTOR SHALL COORDINATE A MEETING WITH THE OWNER TO REVIEW PLANS AND MILLWORK DRAWINGS, CONFIRM EXACT MOUNTING LOCATIONS AND HEIGHTS, AND VERIFY OPERATIONAL REQUIREMENTS FOR THE 2N IP VERSO 2.0 TWO-WAY AUDIO VIDEO INTERCOM DOOR STATIONS WITH CREDENTIAL CARD READERS, AND THE 2N INDOOR VIEW ANSWERING BASE STATIONS. THE CONTRACTOR SHALL PROVIDE THE REQUIRED RACEWAY, INCLUDING PULLING TWINE AND ALL NECESSARY CABLING, TO CONNECT THE INTERCOM SYSTEM TO THE ACCESS CONTROL SYSTEM, IP VIDEO SURVEILLANCE SYSTEM, AND SCHOOL NETWORK. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING A COMPLETE, FULLY FUNCTIONAL INTERCOM SYSTEM THAT INTEGRATES WITH ACCESS CONTROL AND VIDEO SURVEILLANCE SYSTEMS, MEETS THE MANUFACTURER'S SPECIFICATIONS, AND COMPLIES WITH THE OWNER'S REQUIREMENTS.

Y7 IP SURVEILLANCE CAMERAS MOUNTING ON EXTERIOR CORNERS OF THE BUILDING REFER TO DIAGRAM A1 ON SHEET/PAGE A521, AND DIAGRAM EY403 ON SHEET/PAGE E431. A3

KEY PLAN LEVEL 02



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CACHE COUNTY SCHOOL DISTRICT

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84318

DRAWING ISSUE	BID SET
NWL	02/25/2025
	0119.002

PROFESSIONAL ENGINEER 3/25/2025 BRIAN HICKS No. 7109037 STATE OF UTAH

	DATE	REVISION
X3	4/7/2025	ADDENDUM #3

SECOND LEVEL SYSTEMS PLAN - AREA C

E423