SHEET INDEX

NOTE: THE CONSTRUCTION DOCUMENTS FOR THIS PROJECT ARE COMPOSED OF SETS OF DRAWINGS AND SPECIFICATIONS, AND THEREFORE SHALL BE USED AND MAINTAINED IN THEIR ENTIRETY. ANY CONTRACTOR, SUBCONTRACTOR, VENDOR OR PARTY PARTICIPATING IN OR BIDDING ON THIS PROJECT SHALL BE EXPECTED TO PERFORM DUE DILIGENCE TO ENSURE THEIR BID, WORK PERFORMED, AND MATERIALS PROVIDED CONFORMS TO THE INFORMATION PROVIDED WITHIN ANY AND ALL SHEETS OF DRAWINGS AND SPECIFICATIONS, INCLUDING, BUT NOT LIMITED TO, ANY SUBSEQUENT ADDENDA OR CLARIFICATIONS THAT MAY BE ISSUED RELEVANT TO THEIR SCOPE OF WORK. PROJECT SCOPE MAY BE DEFINED WITHIN SPECIFICATIONS AND/OR DRAWINGS.

ADDITIONALLY, DRAWINGS MAY NOT BE RE-SCALED WHEN PRINTED, WRITTEN DIMENSIONS SHALL HAVE PRECEDENCE, AND LARGER SCALE DRAWINGS SHALL HAVE PRECEDENCE OVER SMALLER SCALE DRAWINGS.

ANY DEVIATION FROM OR CONFLICT WITHIN THE DRAWINGS AND/OR SPECIFICATIONS, MUST BE SUBMITTED VIA REQUEST FOR INFORMATION (RFI) AND RESPONDED TO BY THE ARCHITECT PRIOR TO BID OR BEFORE CONTINUING THAT PORTION OF WORK.

PROJECT INFORMATION

DESIGN TEAM

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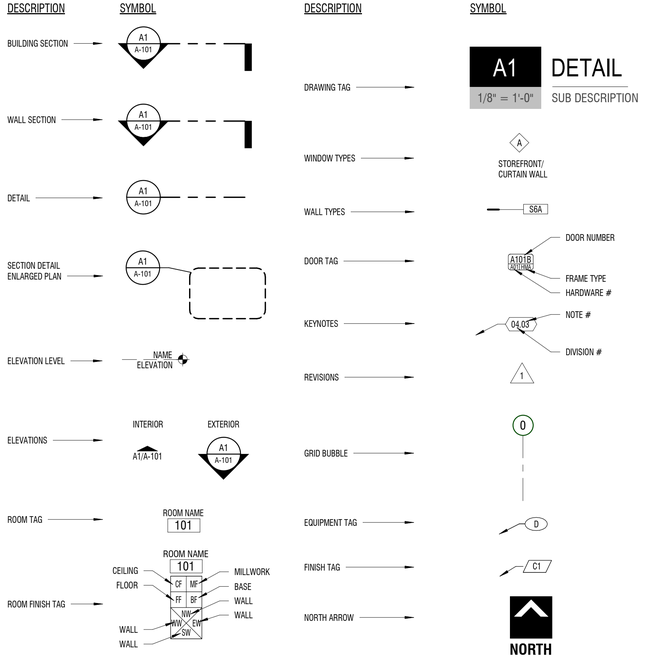
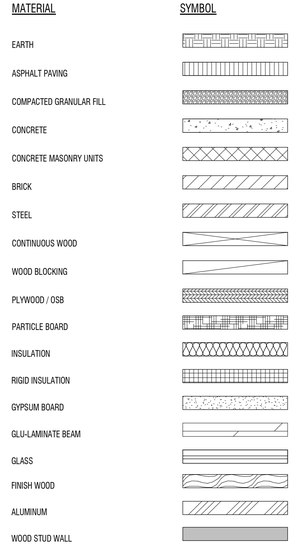
ABBREVIATIONS

ABR.	DESCRIPTION	ABR.	DESCRIPTION	ABR.	DESCRIPTION
AB	ANCHOR BOLT	EXIST	EXISTING	PART BD	PARTICLE BOARD
ABS	ACRYLONITRILE-BUTADIENE -STYRENE	EXP	EXPANSION	PART'N	PARTITION
		EXT	EXTERIOR	P-LAM	PLASTIC LAMINATE PLATE
AC	ACOUSTIC, ACOUSTICAL	FD	FLOOR DRAIN	PLYWD	PLYWOOD
ACC STA	ACCESSIBLE STATION	FDN	FOUNDATION	PREFAB	PREFABRICATED
AD	ADDENDUM	FEC	FIRE EXTINGUISHER CABINET	PROJ	PROJECTION
ADJ	ADJUSTABLE	FIN	FINISH	PT	PRESERVATIVE TREATED
AFF	ABOVE FINISH FLOOR	FLR	FLOOR	PVC	POLYVINYL CHLORIDE
ALT	ALTERNATE	FTG	FOOTING	QT	QUARRY TILE
ALUM	ALUMINUM	GA	GAUGE	R/	ROUND
ASI	ARCHITECT SUPPLEMENTAL INSTRUCTION	GALV	GALVANIZED	RAD	RADIUS
		GI	GALVANIZED IRON	RD	ROOF DRAIN
ASPH	ASPHALT	GYP BD	GYPSUM BOARD	REF	REFRIGERATOR
		HDWD	HARDWOOD	REINF	REINFORCE
BB	BASKETBALL	HM	HOLLOW METAL	REV	REVISION
BD	BOARD	HORIZ	HORIZONTAL	RFI	REQUEST FOR INFORMATION
BLDG	BUILDING	HT	HEIGHT	RO	ROUGH OPENING
BLKG	BLOCKING	ID	INSIDE DIAMETER	SCHED	SCHEDULE
BM	BENCH MARK	INSUL	INSULATION	SHT	SHEET
B.O.	BOTTOM OF	INT	INTERIOR	SIM	SIMILAR
BRG	BEARING	JT	JOINT	SPEC	SPECIFICATION
BSMT	BASEMENT	KD	KNOCK DOWN	SQ	SQUARE
B.U.R.	BUILT UP ROOF	KO	KNOCK OUT	SS	STAINLESS STEEL
C	CHANNEL	L	ANGLE	STD	STANDARD
CB	CHALKBOARD	LLV	LONG LEG VERTICAL	STL	STEEL
C	CENTER LINE	MAX	MAXIMUM	STOR	STORAGE
CLG	CEILING	MB	MARKER BOARD	STRUCT	STRUCTURAL
CMU	CONCRETE MASONRY UNIT	MECH	MECHANICAL	SUSP	SUSPENDED, SUSPENSION
CO	CLEAN OUT	MFR	MANUFACTURER	SYS	SYSTEM
COL	COLUMN	MH	MANHOLE	T & B	TOP AND BOTTOM
CONC	CONCRETE	MIN	MINIMUM	TB	TACKBOARD
CONN	CONNECTION	MISC	MISCELLANEOUS	TEMP	TEMPORARY
CONT	CONTINUOUS	MO	MASONRY OPENING	TEL	TELEPHONE
CONTR	CONTRACTOR	MT	MOUNT	THRES	THRESHOLD
CT	CERAMIC TILE	MTL	METAL	TS	TUBE STEEL
d	PENNY	(N)	NEW	T.O.	TOP OF
DIM	DIMENSION	NIC	NOT IN CONTRACT	TOIL	TOILET
DS	DOWNSPOUT	NTS	NOT TO SCALE	TV	TELEVISION
DWG	DRAWING	O.C.	ON CENTER	TYP	TYPICAL
(E)	EXISTING	OD	OUTSIDE DIAMETER	VERT	VERTICAL
EA	EACH	OH	OVERHEAD	U.N.O.	UNLESS NOTED OTHERWISE
EIFS	EXTERIOR INSULATION FINISH SYSTEM	OF/CI	OWNER FURNISHED / CONTRACTOR INSTALLED	W	WIDE FLANGE
				W/	WITH
ELECT	ELECTRICAL	OF/OI	OWNER FURNISHED / OWNER INSTALLED	WC	WATER CLOSET
ELEV	ELEVATION			WD	WOOD
EQ	EQUAL	OPNG	OPENING	WM	WATER METER
EQUIP	EQUIPMENT	OPP	OPPOSITE	W/O	WITHOUT
EWC	ELECTRIC WATER COOLER	O.T.S.	OPEN TO STRUCTURE	WWF	WELDED WIRE FABRIC

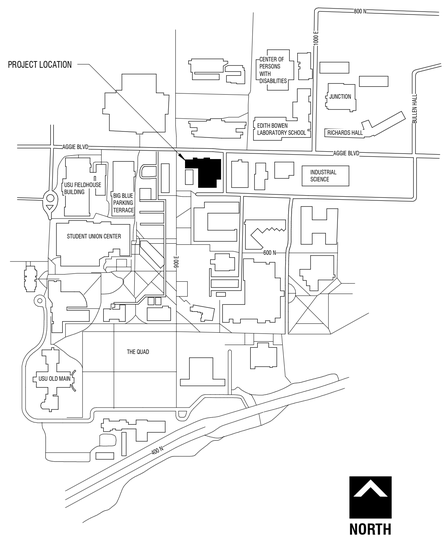
SYMBOLS LEGEND



MATERIALS LEGEND



VICINITY MAP



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LOGAN, UT 84322
UTAH STATE UNIVERSITY

BID/ PERMIT SET

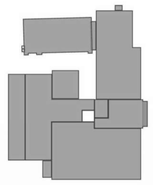
MARK:	DESCRIPTION:	DATE:

PROJECT #: 324236
DRAWN BY: H HARRIS
CHECKED BY: K LEIKIS
ISSUED: 12.23.2024

STATE OF UTAH
LARRY N HEPWORTH
NO. 134843
12.23.2024
REGISTERED ARCHITECT

COVER SHEET

G-001



In this 3D model, facets appear as semi-transparent to reveal overhangs.

TABLE OF CONTENTS

MEASUREMENTS

Total Roof Area =26,517 sq ft
Total Roof Facets =15
Predominant Pitch =0/12
Number of Stories >1
Total Ridges/Hips =4 ft
Total Valleys =0 ft
Total Rakes =23 ft
Total Eaves =343 ft
Total Penetrations =159
Total Penetrations Perimeter = 1,381 ft
Total Penetrations Area = 1,130 sq ft

PREPARED FOR

Contact:	Gavin Gailey
Company:	Utah State University
Address:	1295 E 700 N Logan, UT 84322-0001
Phone:	435-760-5887

Measurements provided by www.eagleview.com

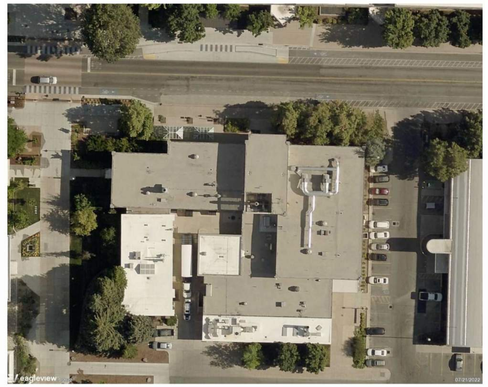
Certified Accurate

www.eagleview.com/Guarantee.aspx

IMAGES

The following aerial images show different angles of this structure for your reference.

Top View



IMAGES

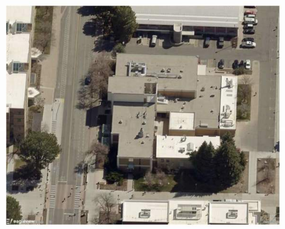
North Side

South Side

IMAGES

East Side

West Side

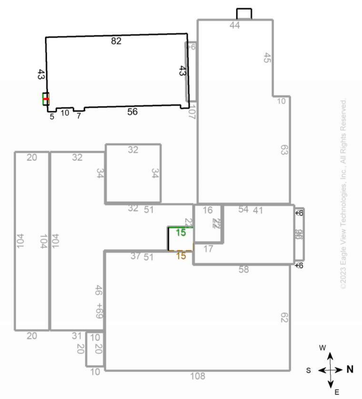


LENGTH DIAGRAM

Total Line Lengths:
Ridges = 4 ft
Hips = 0 ft

Valleys = 0 ft
Rakes = 23 ft
Eaves = 343 ft

Flashing = 14 ft
Step flashing = 23 ft
Parapets = 1,887 ft



Note: This diagram contains segment lengths (rounded to the nearest whole number) over 5.0 Feet. In some cases, segment labels have been removed for readability. Plus signs preface some numbers to avoid confusion when rotated (e.g. +6 and +9).

PITCH DIAGRAM

Pitch values are shown in inches per foot, and arrows indicate slope direction. The predominant pitch on this roof is 0/12

Note: This diagram contains labeled pitches for facet areas larger than 20.0 square feet. In some cases, pitch labels have been removed for readability. Blue shading indicates a pitch of 3/12 and greater. Gray shading indicates flat, 1/12 or 2/12 pitches. If present, a value of "F" indicates a flat facet (no pitch).

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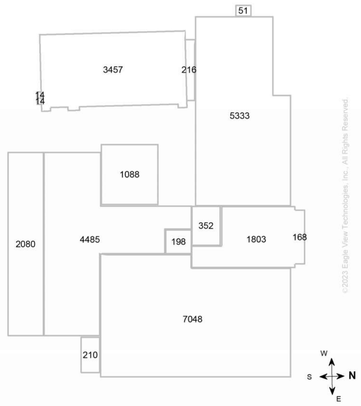
STATE OF UTAH
LARRY N HEPWORTH
NO. 134843
12.23.2024
REGISTERED ARCHITECT

BID/ PERMIT SET

REFERENCE
A-001

AREA DIAGRAM

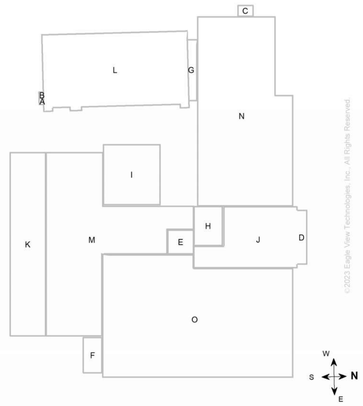
Total Area = 26,517 sq ft, with 15 facets.



Note: This diagram shows the square feet of each roof facet (rounded to the nearest Foot). The total area in square feet, at the top of this page, is based on the non-rounded values of each roof facet (rounded to the nearest square foot after being totaled).

NOTES DIAGRAM

Roof facets are labeled from smallest to largest (A to Z) for easy reference.

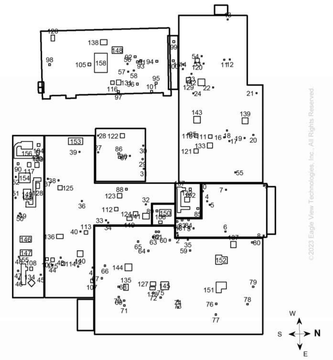


PENETRATIONS NOTES DIAGRAM

Penetrations are labeled from smallest to largest for easy reference.

Total Penetrations = 159
Total Penetrations Perimeter = 1,381 ft

Total Penetrations Area = 1,130 sq ft
Total Roof Area Less Penetrations = 25,387 sq ft



REPORT SUMMARY

All Structures

Areas per Pitch			
Roof Pitches	0/12	2/12	6/12
Area (sq ft)	26290.8	198.5	27.4
% of Roof	99.1%	0.7%	0.1%

The table above lists each pitch on this roof and the total area and percent (both rounded) of the roof with that pitch.

Waste Calculation Table							
Waste %	**0%**	**10%**	**12%**	**15%**	**17%**	**20%**	**22%**
Area (sq ft)	26,517	29168.7	29699.0	30494.6	31024.9	31820.4	32350.7
Squares	265.2	291.7	297.0	304.9	310.2	318.2	323.5

This table shows the total roof area and squares (rounded up to the nearest decimal) based upon different waste percentages. The waste factor is subject to the complexity of the roof, individual roofing techniques and your experience. Please consider this when calculating appropriate waste percentages. Note that only roof area is included in these waste calculations. Additional materials needed for ridge, hip, valley, and starter lengths are not included.

Penetrations	1-58	59-84	85-101	102	103-105	106-108	109	110-116	117	118
Area (sq ft)	0.6	1	1.7	2.3	3.2	4.1	5	5.3	6.4	7
Perimeter (ft)	3.2	4	5.2	6.2	7.2	8.2	9.2	9.2	10.2	11
	119	120-125	126	127	128	129-131	132-133	134	135	136
Area (sq ft)	7.6	7.8	8.6	8.7	8.7	9.2	10.9	11.1	12	12
Perimeter (ft)	11.2	11.2	12	12	12.2	12.2	13.2	13.3	14	14.2
	137	138	139-140	141	142-143	144	145	146-147	148	149
Area (sq ft)	14	14.2	14.4	16.3	18.5	20.2	25	27.7	29.2	30.2
Perimeter (ft)	15	15.2	15.2	16.2	17.2	18	20	22.2	22.2	22.2

Any measured penetration smaller than 3.0x3.0 Feet may need field verification. Accuracy is not guaranteed. The total penetration area is not subtracted from the total roof area.

All Structures Totals

Total Roof Facets = 15
Total Penetrations =159

Lengths, Areas and Pitches
Ridges = 4 ft (1 Ridges)
Hips = 0 ft (0 Hips).
Valleys = 0 ft (0 Valleys)
Rakes† = 23 ft (3 Rakes)
Eaves/Starter‡ = 343 ft (21 Eaves)
Drip Edge (Eaves + Rakes) = 366 ft (24 Lengths)
Parapet Walls = 1,887 (54 Lengths).
Flashing = 14 ft (1 Lengths)
Step flashing = 23 ft (3 Lengths)
Total Penetrations Area = 1,130 sq ft
Total Roof Area Less Penetrations = 25,387 sq ft
Total Penetrations Perimeter = 1,381 ft
Predominant Pitch = 0/12
Total Area (All Pitches) = 26,517 sq ft

Property Location
Longitude = -111.8108683
Latitude = 41.7440766
Notes
This was ordered as a commercial property. There were no changes to the structure in the past four years.

Parapet Wall Area Table							
Wall Height (ft)	1	2	3	4	5	6	7
Vertical Wall Area	1887	3724	5661	7548	9435	11322	13209

This table provides common parapet wall heights to aid you in calculating the total vertical area of these walls. Note that these values assume a 90 degree angle at the base of the wall. Allow for extra materials to cover cant strips and tapered edges.

Online Maps
Online map of property
http://maps.google.com/maps?f=q&source=s_q&hl=en&geocode=&q=900+E+700+N,Logan,UT,84322
Directions from Utah State University to this property
http://maps.google.com/maps?f=d&source=s_d&saddr=1295+E+700+N,Logan,UT,84322-0001&daddr=900+E+700+N,Logan,UT,84322

† Rakes are defined as roof edges that are sloped (not level).
‡ Eaves are defined as roof edges that are not sloped and level.

IMPORTANT LEGAL NOTICE AND DISCLAIMER

Notice and Disclaimer

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Contractors agree to always conduct a preliminary site survey to verify Roof Report ordered. In the event of an error in a Report, your sole remedy will be a refund of the fees paid by you to obtain this Report.

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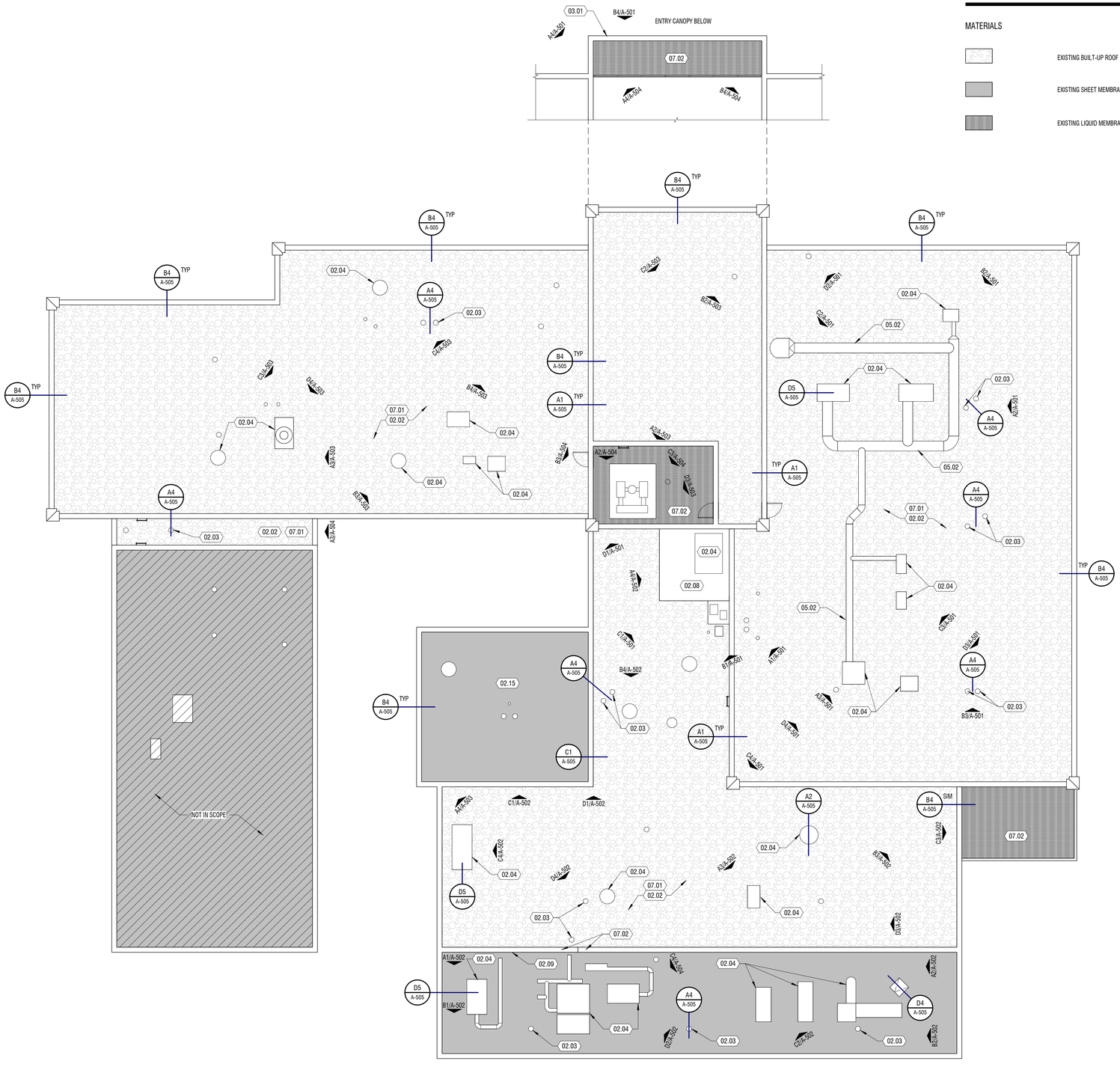
MARK:	DESCRIPTION:	DATE:

PROJECT #: 324236
DRAWN BY: H HARRIS
CHECKED BY: K LEIKIS
ISSUED: 12.23.2024

BID/ PERMIT SET

REFERENCE
A-002



ROOF LEGEND

MATERIALS

- EXISTING BUILT-UP ROOF
- EXISTING SHEET MEMBRANE
- EXISTING LIQUID MEMBRANE

GENERAL NOTES

1. KEYNOTES: ⟨ # ⟩ THE FIRST TWO NUMBERS REPRESENT THE RELATED CSI MASTER FORMAT DIVISION. THE SECOND SET OF NUMBERS REPRESENTS AN IDENTIFYING MARK VALUE. NOT ALL VALUES MAY BE USED OR OCCUR IN THE DOCUMENT SET.

   ADDITIONALLY, KEYNOTES RETAIN THEIR ASSIGNED VALUE UNIVERSALLY THROUGHOUT THE SET. THE KEYNOTES LISTED BELOW, REPRESENT THE KEYNOTES FOUND AND UTILIZED ON THIS SHEET AND EACH LIST WILL DIFFER RESPECTIVE TO ITS' SHEET. THEREFORE, BASED ON ACTUAL KEYNOTES UTILIZED ON A GIVEN SHEET OF DRAWINGS, GAPS IN THE SEQUENCING WILL OCCUR.
2. CONTRACTOR SHALL VERIFY LAY-OUT OF STRUCTURAL, MECHANICAL, AND ELECTRICAL.
3. ALL INTERIOR DIMENSIONS ARE TO/FROM FACE OF STUD / MASONRY. ALL EXTERIOR DIMENSIONS ARE TO/FROM FACE OF GRID/FOUNDATION. DIMENSIONS MARKED 'CLEAR' OR 'CLR' ARE FROM FACE OF FINISH TO FACE OF FINISH AND SHALL BE MAINTAINED AND CANNOT BE FIELD ADJUSTED WITHOUT PRIOR APPROVAL OF THE ARCHITECT.
4. PLAN INDICATES MAJOR ROOF PENETRATIONS. THIS DOES NOT REPRESENT ALL PENETRATIONS BY UTILITIES. SEE PAGE 8 OF ROOFING REPORT ON A-002 FOR ADDITIONAL INFORMATION.
5. ALL MECHANICAL AND OTHER PENETRATIONS SHALL BE FLASHED ACCORDING TO ROOF MANUFACTURER STANDARDS AND SPECIFICATIONS TO MAINTAIN ROOF MEMBRANE WARRANTY, PENETRATION LOCATIONS TO BE COORDINATED WITH MANUFACTURE PRIOR TO INSTALLATION. PITCH POCKETS ARE **NOT** ALLOWED. REMOVE ANY UNUSED PITCH POCKETS.
6. PROVIDE ELECTROLYSIS SEPARATION BETWEEN DISSIMILAR MATERIAL CONNECTIONS
7. CRICKETS SHOWN IN ROOF PLAN MAY NOT BE REFLECTED IN BUILDING SECTIONS OR DETAILS
8. ALL FIELDS SLOPE TO ROOF DRAINS. CRICKETS SHOWN ARE FOR GENERAL REFERENCE AND MAY NOT INCLUDE ALL SITUATIONS WHERE CRICKETS ARE REQUIRED. INSTALLER IS RESPONSIBLE TO CRICKET AS REQUIRED TO PREVENT UNNECESSARY BUILD-UP OR DAMMING OF WATER ALONG WALLS, CURBS, ETC.
9. PROVIDE ROOF WALKWAY PADS AT ROOF HATCH AND AROUND ALL MECHANICAL UNITS, ROOF TOP EQUIPMENT, SOLAR PANELS, ETC.
10. TRANSPORT DEMOLISHED MATERIALS OFF OWNER'S PROPERTY AND LEGALLY DISPOSE OF DEBRIS. COORDINATE WITH OWNER FOR DISPOSAL OF GRAVEL ON APPROPRIATE OWNER HELD PROPERTY
11. ASBESTOS TESTING AND REMOVAL BY OWNER. ANY ASBESTOS CONTAINING MATERIAL (ACM) OR LEAD-BASED PAINT (LBP) REMOVAL SHALL BE COORDINATED WITH AUTHORITY HAVING JURISDICTION. REMOVAL SHALL BE DONE THROUGH A QUALIFIED ACM AND LBP CONTRACTORS. DIVISION OF AIR QUALITY RULE R307-801-9. THE ASBESTOS PROJECT OPERATOR SHALL ENSURE THAT THE STRUCTURE OR FACILITY TO BE DEMOLISHED OR RENOVATED IS INSPECTED FOR ACM BY AN INSPECTOR CERTIFIED UNDER THE PROVISIONS OF R307-801-6. AN ASBESTOS SURVEY REPORT SHALL BE GENERATED ACCORDING TO THE PROVISIONS OF R307-801-10. THE ASBESTOS PROJECT OPERATOR SHALL MAKE THE ASBESTOS SURVEY REPORT AVAILABLE ON SITE TO ALL PERSONS WHO HAVE ACCESS TO THE SITE FOR THE DURATION OF THE RENOVATION OR DEMOLITION ACTIVITIES.
12. ALL SUSPECT ASBESTOS CONTAINING MATERIALS OR LEAD BASED PAINT NOT IDENTIFIED MUST BE SAMPLED TO DETERMINE CONTENT. IF MATERIALS ARE ENCOUNTERED WHICH HAVE NOT BEEN PREVIOUSLY IDENTIFIED/SAMPLED, STOP WORK AND CONTACT THE AUTHORITY HAVING JURISDICTION.
13. EQUIPMENT WORKING OVERHEAD – AREA WHERE OVERHEAD EQUIPMENT IS USED (HIGH REACH FORKLIFT / CRANES ETC) AREAS TO BE FENCED TO PROVIDE PHYSICAL BARRIER BETWEEN OCCUPANTS AND EQUIPMENT.
14. FALLING DEBRIS: - DOORWAYS THAT MUST REMAIN OPEN DURING CONSTRUCTION WITH LOADING AND UNLOADING WITH THE POTENTIAL FOR FALLING DEBRIS WILL REQUIRE LIFE SAFETY STRUCTURE OR LIFE SAFETY SCAFFOLDING. CONES IDENTIFYING THE HAZARD PLACED AROUND THE PERIMETER OF THE BUILDING AS NEEDED.
15. BUILDING FLOODING: CONTRACTOR TO RECOVER AND MAKE ROOF SYSTEM WATERTIGHT EACH DAY WITH SPECIAL ATTENTION TO INCLEMENT WEATHER. COVER AS NEEDED.
16. EXHAUST VENTS/FUME HOODS: ANY EQUIPMENT VENTING DANGEROUS FUMES MUST BE SHUT OFF AND LOCKED OUT PRIOR TO START OF WORK.
17. DETACH , LIFT, REATTACH ALL MECHANICAL EQUIPMENT, VENTS, DUCTS ETC. RAISE CURBS, GAS, PIPES, CONDUIT, ELECTRICAL AS REQUIRED TO MEET MINIMUM MANUFACTURER'S CLEARANCES AND TO ALLOW FOR PROPER DETAILING OF CURBS AND ROOF SYSTEMS.
18. All WOOD NAILERS, CURBS, BLOCKING & ETC TO BE REPLACED WITH FIRE PRESSURE TREATED WOOD. REPAIR OR REPLACE OTHER BACKING AS REQUIRED TO ALLOW FOR SOLID ATTACHMENT TO ROOFING SYSTEM OR METAL FLASHING.
19. ROOFING CONTRACTOR TO COORDINATE / REVIEW DETAILS UPON AWARD OF CONTRACT AND WORK PROGRESS WITH ARCHITECT / OWNERS REPRESENTATIVE THAT MAY BE BETTER DETAILED OR INSTALLED ANOTHER WAY - SEE SHEET A-503.
20. ALL EXISTING ROOF DRAINS SHALL BE REPLACED WITH NEW CAST IRON DRAINS AND BOWLS. MATCH EXISTING SIZE. THE CONTRACTOR TO VERIFY THE DRAINAGE SYSTEM IS FREE OF DEBRIS AT THE CONCLUSION OF THE PROJECT TO ENSURE NO OBSTRUCTIONS IN THE DRAINAGE SYSTEM.
21. PROTECT EXISTING ROOF DRAINS AND PIPES DURING CONSTRUCTION - COVER TO ELIMINATE ROCK AND DEBRIS FROM OPENINGS.
22. MINIMUM R-VALUE SHALL BE 5" MIN (R-30) OF POLYISO INSULATION.
23. COVER AND PROTECT ALL ROOF OPENINGS EACH NIGHT AND PROTECT ALL AREAS OPEN TO WATER DAMAGE.
24. MIN. ROOF SLOPE SHALL BE 1/4" PER FOOT.

KEYNOTES ⟨ # ⟩

MARK	DESCRIPTION
02.02	REMOVE EXISTING BUILT UP ROOFING SYSTEM AND INSULATION TO EXISTING DECK - LAYERS VARY. REMOVE EXISTING GRAVEL AND COORDINATE WITH THE OWNER TO DISPOSE AT THEIR GRAVEL PIT. REMOVE ALL REMAINING LAYERS DOWN TO DECK.
02.03	REMOVE AND REPLACE EXISTING DRAINS (ROOF DRAIN RECEIVER) AND DRAIN CAPS (DOMES) WITH NEW CAST IRON DRAIN RECEIVERS AND CAPS - PROVIDE NEW FLASHING CLAMPS - PROVIDE NEW MEMBRANE - SEE A3, A4/A-503 - SALVAGE DRAIN CAPS AND DOMES TO OWNER
02.04	DETACH, LIFT, REATTACH ALL MECHANICAL EQUIPMENT, VENTS, DUCTS, HATCHES, ETC. - EXTEND / LIFT EXISTING MECHANICAL UNIT CURBS, GAS, PIPES, CONDUIT, ELECTRICAL AS REQUIRED TO MEET MINIMUM MANUFACTURER'S CLEARANCES, VENTS AND PIPES 8" MIN. - RE-ROOF - REPLACE MANUFACTURED PIPE / CONDUIT SUPPORT SYSTEM AT EXPOSED PIPES / CONDUIT - PROVISE NEW EXTERIOR WATERPROOF CONDUIT & PIPE SUPPORTS - SEE SHEET A-503 FOR DETAILS
02.08	ASBESTOS IS FOUND IN SILVER PAINT AT ALL PARPET WALLS AND RAISED AREA. SHALL BE ABATED
02.09	DISCONNECT AND REMOVE EXISTING ELECTRICAL SERVICE BOXES AND REATTACH OVER NEW MEMBRANE ON PARAPET
02.15	REMOVE EXISTING SINGLE-PLY MEMBRANE, INSULATION TO EXISTING DECK - LAYERS VARY. PROVIDE STRUCTURAL AND INSULATION UPGRADES AS REQUIRED IN DRAWINGS
03.01	EPOXY REPAIR OF CONCRETE SPALLING. PROVIDE METAL CAP AND FLASHING
05.02	EXTEND DUCT SUPPORT STANDS TO STRUCTURE DECKING
07.01	PROVIDE NEW SINGLE-PLY MEMBRANE AND RIGID R-30 POLYISO INSULATION - GLUE DOWN FULLY ADHERED SYSTEM - EXTEND MEMBRANE UP UNDER PARAPET CAP / EXPANSION JOINT WHERE POSSIBLE - PROVIDE TAPERED INSULATION TO ALLOW FOR DRAINAGE WHERE SLOPED STRUCTURE DOES NOT OCCUR OR CRICKETS ARE REQUIRED. SLOPED STRUCTURE
07.02	NEW SINGLE PLY MEMBRANE TO CONTINUE ON PARAPET FACES. ADHERE COVER BOARD TO EXISTING CMU AND ADHERE MEMBRANE TO BOARD FACE

A1 ROOF PLAN
3/32" = 1'-0"

NORTH

BID/ PERMIT SET

DESIGN WEST
LOGAN, UTAH
(435) 752-7031
SALT LAKE CITY, UTAH
(801) 539-8221

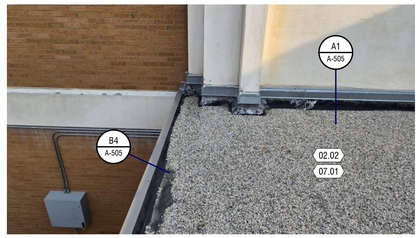
USU - VETERINARY SCIENCE - REROOF
USU CAMPUS
LOGAN, UT 84322
UTAH STATE UNIVERSITY

MARK:	DATE:	DESCRIPTION:

PROJECT #: 324236
DRAWN BY: H HARRIS
CHECKED BY: K LEIKIS
ISSUED: 12.23.2024

STATE OF UTAH
LARRY N HEPWORTH
NO. 134843
12.23.2024
REGISTERED ARCHITECT

ROOF PLAN
A-104



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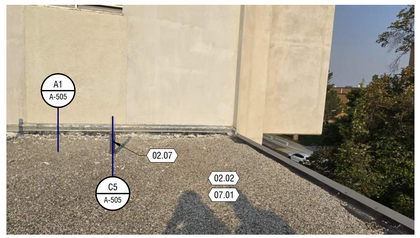

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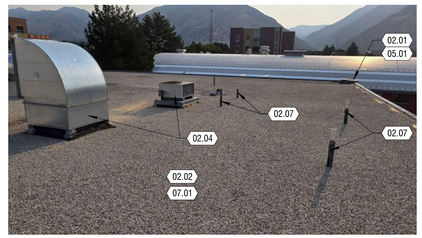

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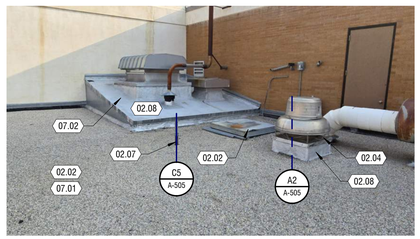

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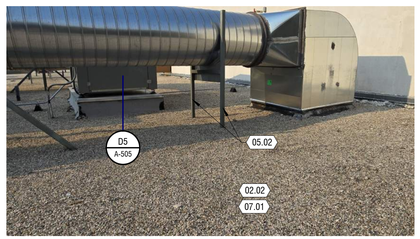

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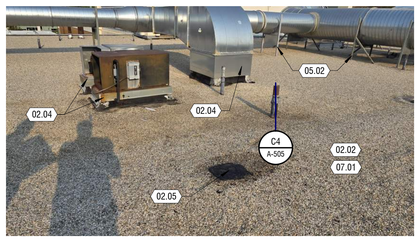

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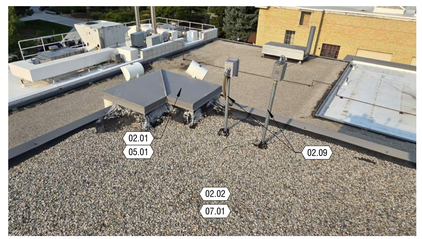

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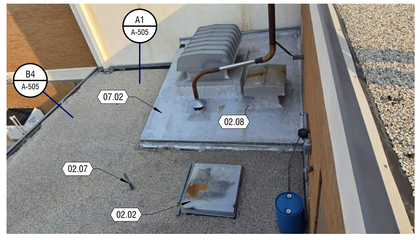

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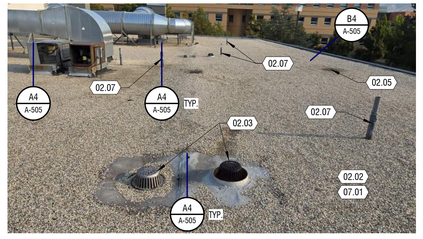

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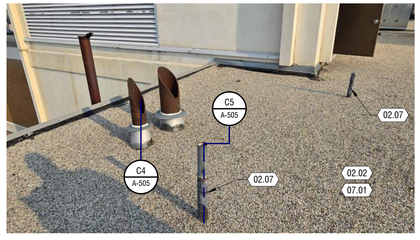

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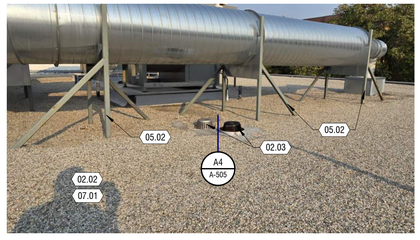

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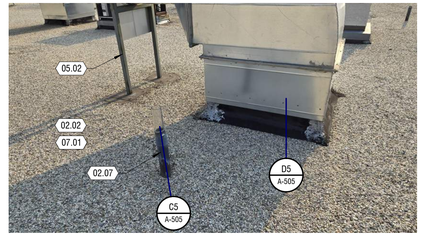

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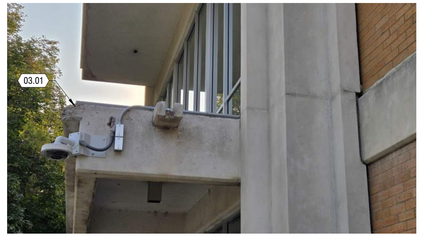

A4 REFERENCE IMAGE

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4. PLAN INDICATES MAJOR ROOF PENETRATIONS. THIS DOES NOT REPRESENT ALL PENETRATIONS BY UTILITIES. SEE PAGE 8 OF ROOFING REPORT ON A-002 FOR ADDITIONAL INFORMATION.
5. ALL MECHANICAL AND OTHER PENETRATIONS SHALL BE FLASHED ACCORDING TO ROOF MANUFACTURER STANDARDS AND SPECIFICATIONS TO MAINTAIN ROOF MEMBRANE WARRANTY, PENETRATION LOCATIONS TO BE COORDINATED WITH MANUFACTURE PRIOR TO INSTALLATION. PITCH POCKETS ARE **NOT** ALLOWED. REMOVE ANY UNUSED PITCH POCKETS.
6. PROVIDE ELECTROLYSIS SEPARATION BETWEEN DISSIMILAR MATERIAL CONNECTIONS
7. CRICKETS SHOWN IN ROOF PLAN MAY NOT BE REFLECTED IN BUILDING SECTIONS OR DETAILS
8. ALL FIELDS SLOPE TO ROOF DRAINS. CRICKETS SHOWN ARE FOR GENERAL REFERENCE AND MAY NOT INCLUDE ALL SITUATIONS WHERE CRICKETS ARE REQUIRED. INSTALLER IS RESPONSIBLE TO CRICKET AS REQUIRED TO PREVENT UNNECESSARY BUILD-UP OR DAMMING OF WATER ALONG WALLS, CURBS, ETC.
9. PROVIDE ROOF WALKWAY PADS AT ROOF HATCH AND AROUND ALL MECHANICAL UNITS, ROOF TOP EQUIPMENT, SOLAR PANELS, ETC.
10. TRANSPORT DEMOLISHED MATERIALS OFF OWNER'S PROPERTY AND LEGALLY DISPOSE OF DEBRIS. COORDINATE WITH OWNER FOR DISPOSAL OF GRAVEL ON APPROPRIATE OWNER HELD PROPERTY
11. ASBESTOS TESTING AND REMOVAL BY OWNER. ANY ASBESTOS CONTAINING MATERIAL (ACM) OR LEAD-BASED PAINT (LBP) REMOVAL SHALL BE COORDINATED WITH AUTHORITY HAVING JURISDICTION. REMOVAL SHALL BE DONE THROUGH A QUALIFIED ACM AND LBP CONTRACTORS. DIVISION OF AIR QUALITY RULE R307-801-9: THE ASBESTOS PROJECT OPERATOR SHALL ENSURE THAT THE STRUCTURE OR FACILITY TO BE DEMOLISHED OR RENOVATED IS INSPECTED FOR ACM BY AN INSPECTOR CERTIFIED UNDER THE PROVISIONS OF R307-801-6. AN ASBESTOS SURVEY REPORT SHALL BE GENERATED ACCORDING TO THE PROVISIONS OF R307-801-10. THE ASBESTOS PROJECT OPERATOR SHALL MAKE THE ASBESTOS SURVEY REPORT AVAILABLE ON SITE TO ALL PERSONS WHO HAVE ACCESS TO THE SITE FOR THE DURATION OF THE RENOVATION OR DEMOLITION ACTIVITIES.
12. ALL SUSPECT ASBESTOS CONTAINING MATERIALS OR LEAD BASED PAINT NOT IDENTIFIED MUST BE SAMPLED TO DETERMINE CONTENT. IF MATERIALS ARE ENCOUNTERED WHICH HAVE NOT BEEN PREVIOUSLY IDENTIFIED/SAMPLED, STOP WORK AND CONTACT THE AUTHORITY HAVING JURISDICTION.
13. EQUIPMENT WORKING OVERHEAD – AREA WHERE OVERHEAD EQUIPMENT IS USED (HIGH REACH FORKLIFT / CRANES ETC) AREAS TO BE FENCED TO PROVIDE PHYSICAL BARRIER BETWEEN OCCUPANTS AND EQUIPMENT.
14. FALLING DEBRIS: - DOORWAYS THAT MUST REMAIN OPEN DURING CONSTRUCTION WITH LOADING AND UNLOADING WITH THE POTENTIAL FOR FALLING DEBRIS WILL REQUIRE LIFE SAFETY STRUCTURE OR LIFE SAFETY SCAFFOLDING. CONES IDENTIFYING THE HAZARD PLACED AROUND THE PERIMETER OF THE BUILDING AS NEEDED.
15. BUILDING FLOODING: CONTRACTOR TO RECOVER AND MAKE ROOF SYSTEM WATERTIGHT EACH DAY WITH SPECIAL ATTENTION TO INCLEMENT WEATHER. COVER AS NEEDED.
16. EXHAUST VENTS/FUME HOODS: ANY EQUIPMENT VENTING DANGEROUS FUMES MUST BE SHUT OFF AND LOCKED OUT PRIOR TO START OF WORK.
17. DETACH , LIFT, REATTACH ALL MECHANICAL EQUIPMENT, VENTS, DUCTS ETC. RAISE CURBS, GAS, PIPES, CONDUIT, ELECTRICAL AS REQUIRED TO MEET MINIMUM MANUFACTURER'S CLEARANCES AND TO ALLOW FOR PROPER DETAILING OF CURBS AND ROOF SYSTEMS.
18. All WOOD NAILERS, CURBS, BLOCKING & ETC TO BE REPLACED WITH FIRE PRESSURE TREATED WOOD. REPAIR OR REPLACE OTHER BACKING AS REQUIRED TO ALLOW FOR SOLID ATTACHMENT TO ROOFING SYSTEM OR METAL FLASHING.
19. ROOFING CONTRACTOR TO COORDINATE / REVIEW DETAILS UPON AWARD OF CONTRACT AND WORK PROGRESS WITH ARCHITECT / OWNERS REPRESENTATIVE THAT MAY BE BETTER DETAILED OR INSTALLED ANOTHER WAY - SEE SHEET A-503.
20. ALL EXISTING ROOF DRAINS SHALL BE REPLACED WITH NEW CAST IRON DRAINS AND BOWLS. MATCH EXISTING SIZE. THE CONTRACTOR TO VERIFY THE DRAINAGE SYSTEM IS FREE OF DEBRIS AT THE CONCLUSION OF THE PROJECT TO ENSURE NO OBSTRUCTIONS IN THE DRAINAGE SYSTEM.
21. PROTECT EXISTING ROOF DRAINS AND PIPES DURING CONSTRUCTION - COVER TO ELIMINATE ROCK AND DEBRIS FROM OPENINGS.
22. MINIMUM R-VALUE SHALL BE 5" MIN (R-30) OF POLYISO INSULATION.
23. COVER AND PROTECT ALL ROOF OPENINGS EACH NIGHT AND PROTECT ALL AREAS OPEN TO WATER DAMAGE.
24. MIN. ROOF SLOPE SHALL BE 1/4" PER FOOT.

KEYNOTES ⟨#⟩

MARK	DESCRIPTION
02.01	REMOVE EXISTING METAL FLASHING, FASCIA AND COUNTER FLASHING - SEE NOTE 05.01
02.02	REMOVE EXISTING BUILT UP ROOFING SYSTEM AND INSULATION TO EXISTING DECK - LAYERS VARY. REMOVE EXISTING GRAVEL AND COORDINATE WITH THE OWNER TO DISPOSE AT THEIR GRAVEL PIT. REMOVE ALL REMAINING LAYERS DOWN TO DECK.
02.03	REMOVE AND REPLACE EXISTING DRAINS (ROOF DRAIN RECEIVER) AND DRAIN CAPS (DOMES) WITH NEW CAST IRON DRAIN RECEIVERS AND CAPS - PROVIDE NEW FLASHING CLAMPS - PROVIDE NEW MEMBRANE - SEE A3, A4/A-503 - SALVAGE DRAIN CAPS AND DOMES TO OWNER
02.04	DETACH, LIFT, REATTACH ALL MECHANICAL EQUIPMENT, VENTS, DUCTS, HATCHES, ETC. - EXTEND / LIFT EXISTING MECHANICAL UNIT CURBS, GAS, PIPES, CONDUIT, ELECTRICAL AS REQUIRED TO MEET MINIMUM MANUFACTURER'S CLEARANCES, VENTS AND PIPES 8" MIN - RE-ROOF - REPLACE MANUFACTURED PIPE / CONDUIT SUPPORT SYSTEM AT EXPOSED PIPES / CONDUIT - PROVISE NEW EXTERIOR WATERPROOF CONDUIT & PIPE SUPPORTS - SEE SHEET A-503 FOR DETAILS
02.05	EXISTING ROOFING SYSTEM SAMPLE - SEE SHEET A-504
02.07	EXISTING VENT PIPE - TO REMAIN
02.08	ASBESTOS IS FOUND IN SILVER PAINT AT ALL PARPET WALLS AND RAISED AREA. SHALL BE ABATED
02.09	DISCONNECT AND REMOVE EXISTING ELECTRICAL SERVICE BOXES AND REATTACH OVER NEW MEMBRANE ON PARAPET
03.01	EPOXY REPAIR OF CONCRETE SPALLING. PROVIDE METAL CAP AND FLASHING
05.01	PROVIDE NEW METAL FLASHING, FASCIA AND COUNTER FLASHING AT PARAPETS AND ROOF EDGES - COLOR: TBD - ARCHITECT TO APPROVE SAMPLE - SEE ??/A-507 - FIELD VERIFY TYPES AND PROFILES
05.02	EXTEND DUCT SUPPORT STANDS TO STRUCTURE DECKING
07.01	PROVIDE NEW SINGLE-PLY MEMBRANE AND RIGID R-30 POLYISO INSULATION - GLUE DOWN FULLY ADHERED SYSTEM - EXTEND MEMBRANE UP UNDER PARAPET CAP / EXPANSION JOINT WHERE POSSIBLE - PROVIDE TAPERED INSULATION TO ALLOW FOR DRAINAGE WHERE SLOPED STRUCTURE DOES NOT OCCUR OR CRICKETS ARE REQUIRED. SLOPED STRUCTURE
07.02	NEW SINGLE PLY MEMBRANE TO CONTINUE ON PARAPET FACES. ADHERE COVER BOARD TO EXISTING CMU AND ADHERE MEMBRANE TO BOARD FACE

BID/ PERMIT SET

DESIGN WEST

LOGAN, UTAH
(435) 752-7031

SALT LAKE CITY, UTAH
(801) 539-8221

USU - VETERINARY SCIENCE - REROOF

USU CAMPUS

LOGAN, UT 84322

UTAH STATE UNIVERSITY

MARK:	DESCRIPTION:	DATE:

PROJECT #: 324236

DRAWN BY: H HARRIS

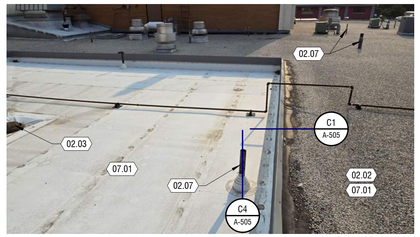
CHECKED BY: K LEIKIS

ISSUED: 12.23.2024

STATE OF UTAH
LARRY N HEPWORTH
NO. 134843
12.23.2024
REGISTERED ARCHITECT

ROOF PHOTOS

A-501



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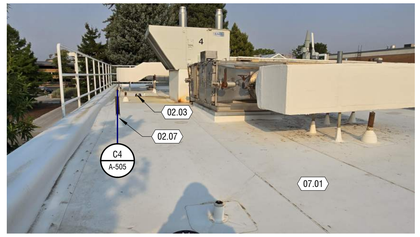

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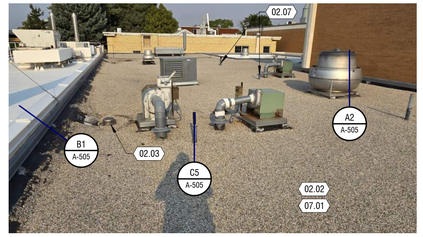

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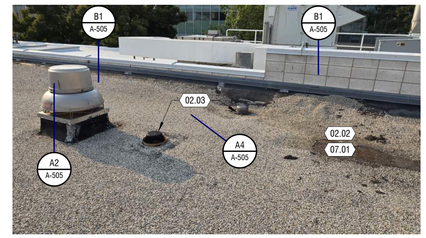

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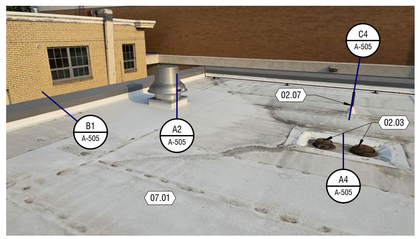

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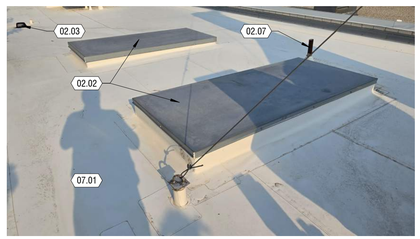

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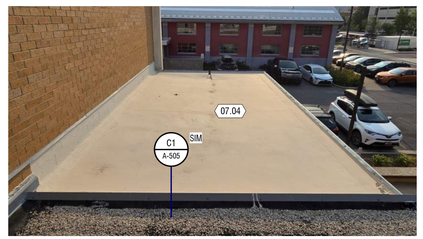

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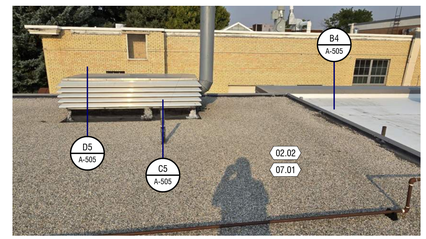

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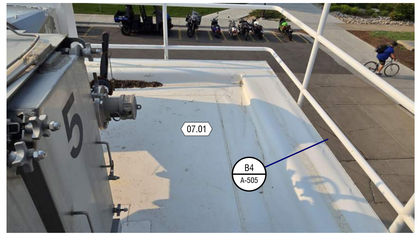

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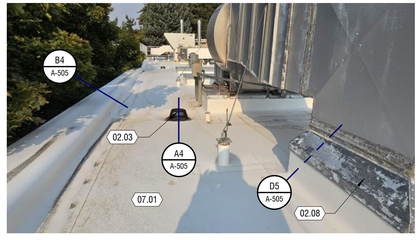

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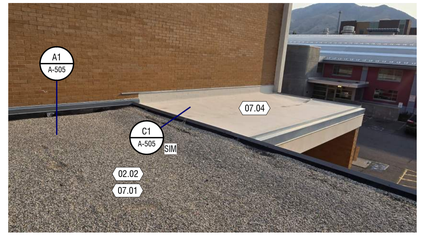

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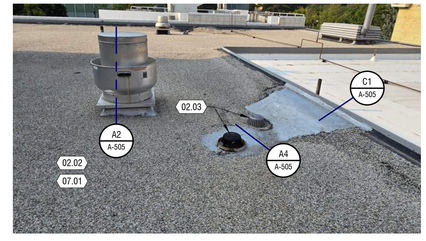

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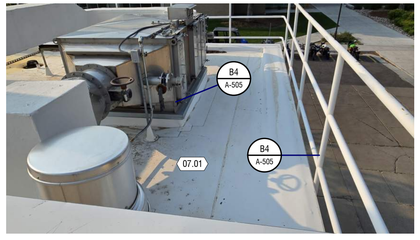

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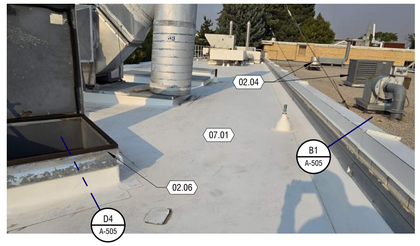

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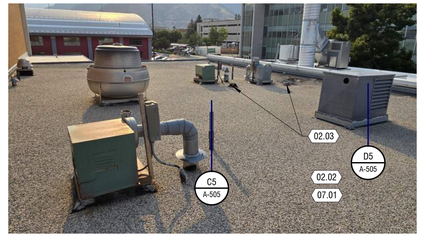

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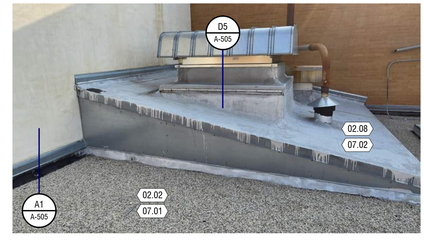

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9. PROVIDE ROOF WALKWAY PADS AT ROOF HATCH AND AROUND ALL MECHANICAL UNITS, ROOF TOP EQUIPMENT, SOLAR PANELS, ETC.
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24. MIN. ROOF SLOPE SHALL BE 1/4" PER FOOT.

KEYNOTES ⟨#⟩

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02.06	REMOVE EXISTING ROOF HATCH ALONG WITH COUNTERFLASHING - SEE DETAIL D4/A-503
02.07	EXISTING VENT PIPE - TO REMAIN
02.08	ASBESTOS IS FOUND IN SILVER PAINT AT ALL PARPET WALLS AND RAISED AREA. SHALL BE ABATED
07.01	PROVIDE NEW SINGLE-PLY MEMBRANE AND RIGID R-30 POLYISO INSULATION - GLUE DOWN FULLY ADHERED SYSTEM - EXTEND MEMBRANE UP UNDER PARAPET CAP / EXPANSION JOINT WHERE POSSIBLE - PROVIDE TAPERED INSULATION TO ALLOW FOR DRAINAGE WHERE SLOPED STRUCTURE DOES NOT OCCUR OR CRICKETS ARE REQUIRED. SLOPED STRUCTURE
07.02	NEW SINGLE PLY MEMBRANE TO CONTINUE ON PARAPET FACES. ADHERE COVER BOARD TO EXISTING CMU AND ADHERE MEMBRANE TO BOARD FACE
07.04	PROVIDE NEW LIQUID MEMBRANE

BID/ PERMIT SET

DESIGN WEST

LOGAN, UTAH
(435) 752-7031

SALT LAKE CITY, UTAH
(801) 539-8221

USU - VETERINARY SCIENCE - REROOF

USU CAMPUS

LOGAN, UT 84322

UTAH STATE UNIVERSITY

MARK:	DATE:	DESCRIPTION:

PROJECT #: 324236

DRAWN BY: H HARRIS

CHECKED BY: K LEIKIS

ISSUED: 12.23.2024

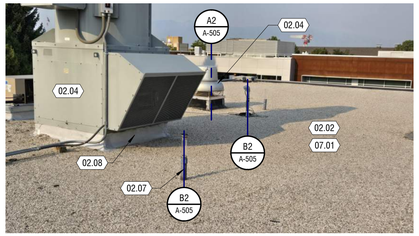
STATE OF UTAH
LARRY N HEPWORTH
NO. 134843
12.23.2024
REGISTERED ARCHITECT

ROOF PHOTOS

A-502

D3 REFERENCE IMAGE

NTS



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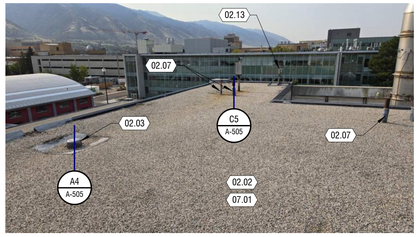

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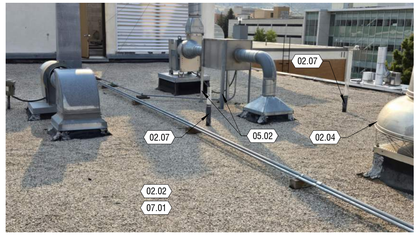

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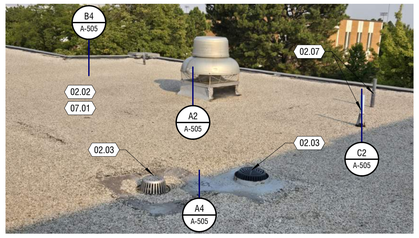

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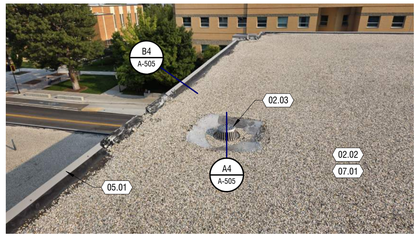

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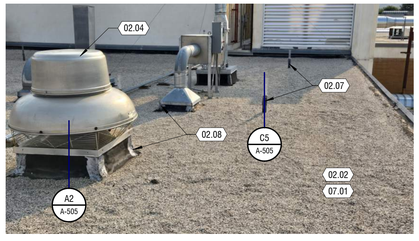

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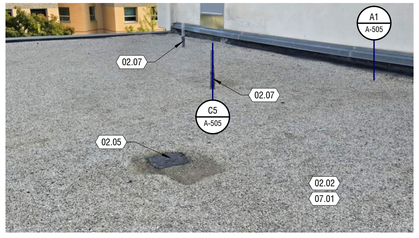

B4 REFERENCE IMAGE

NTS

A2 REFERENCE IMAGE

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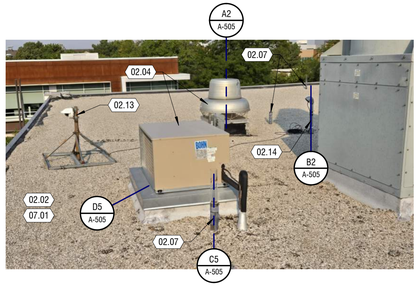

A3 REFERENCE IMAGE

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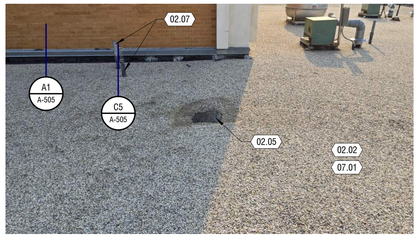

A4 REFERENCE IMAGE

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KEYNOTES ⟨#⟩

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02.04	DETACH, LIFT, REATTACH ALL MECHANICAL EQUIPMENT, VENTS, DUCTS, HATCHES, ETC. - EXTEND / LIFT EXISTING MECHANICAL UNIT CURBS, GAS, PIPES, CONDUIT, ELECTRICAL AS REQUIRED TO MEET MINIMUM MANUFACTURER'S CLEARANCES. VENTS AND PIPES 8" MIN. - RE-ROOF - REPLACE MANUFACTURED PIPE / CONDUIT SUPPORT SYSTEM AT EXPOSED PIPES / CONDUIT - PROVISE NEW EXTERIOR WATERPROOF CONDUIT & PIPE SUPPORTS - SEE SHEET A-503 FOR DETAILS
02.05	EXISTING ROOFING SYSTEM SAMPLE - SEE SHEET A-504
02.07	EXISTING VENT PIPE - TO REMAIN
02.08	ASBESTOS IS FOUND IN SILVER PAINT AT ALL PARPET WALLS AND RAISED AREA. SHALL BE ABATED
02.10	REMOVE ANY EXISTING PITCH POCKETS
02.13	EXISTING CAMERA AND STAND TO BE REMOVED - COORDINATE W/OWNER
02.14	EXISTING WIRE WEATHER HEAD - PROTECT AND COORDINATE W/OWNER
05.01	PROVIDE NEW METAL FLASHING, FASCIA AND COUNTER FLASHING AT PARAPETS AND ROOF EDGES - COLOR: TBD - ARCHITECT TO APPROVE SAMPLE - SEE ??/A-507 - FIELD VERIFY TYPES AND PROFILES
05.02	EXTEND DUCT SUPPORT STANDS TO STRUCTURE DECKING
07.01	PROVIDE NEW SINGLE-PLY MEMBRANE AND RIGID R-30 POLYISO INSULATION - GLUE DOWN FULLY ADHERED SYSTEM - EXTEND MEMBRANE UP UNDER PARAPET CAP / EXPANSION JOINT WHERE POSSIBLE - PROVIDE TAPERED INSULATION TO ALLOW FOR DRAINAGE WHERE SLOPED STRUCTURE DOES NOT OCCUR OR CRICKETS ARE REQUIRED. SLOPED STRUCTURE
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BID/ PERMIT SET

DESIGN WEST

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SALT LAKE CITY, UTAH
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USU - VETERINARY SCIENCE - REROOF

USU CAMPUS

LOGAN, UT 84322

UTAH STATE UNIVERSITY

MARK:	DATE:	DESCRIPTION:

PROJECT #: 324236
DRAWN BY: H HARRIS
CHECKED BY: K LEIKIS
ISSUED: 12.23.2024

STATE OF UTAH
LARRY N HEPWORTH
NO. 134843
12.23.2024
REGISTERED ARCHITECT

ROOF PHOTOS

A-503

D1 REFERENCE IMAGE

3/16" = 1'-0" CORE SAMPLE

D2 REFERENCE IMAGE

3/16" = 1'-0" CORE SAMPLE

C1 REFERENCE IMAGE

3/16" = 1'-0" CORE SAMPLE

C2 REFERENCE IMAGE

3/16" = 1'-0" CORE SAMPLE

B1 REFERENCE IMAGE

3/16" = 1'-0" CORE SAMPLE

B2 REFERENCE IMAGE

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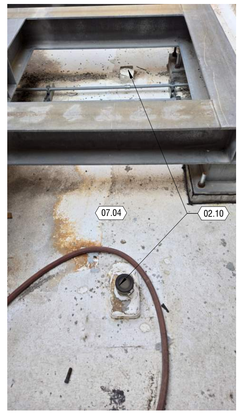

C3 REFERENCE IMAGE

NTS

C4 REFERENCE IMAGE

NTS

B3 REFERENCE IMAGE

NTS

B4 REFERENCE IMAGE

NTS

A2 REFERENCE IMAGE

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A3 REFERENCE IMAGE

NTS

A4 REFERENCE IMAGE

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18. All WOOD NAILERS, CURBS, BLOCKING & ETC TO BE REPLACED WITH FIRE PRESSURE TREATED WOOD. REPAIR OR REPLACE OTHER BACKING AS REQUIRED TO ALLOW FOR SOLID ATTACHMENT TO ROOFING SYSTEM OR METAL FLASHING.
19. ROOFING CONTRACTOR TO COORDINATE / REVIEW DETAILS UPON AWARD OF CONTRACT AND WORK PROGRESS WITH ARCHITECT / OWNERS REPRESENTATIVE THAT MAY BE BETTER DETAILED OR INSTALLED ANOTHER WAY - SEE SHEET A-503.
20. ALL EXISTING ROOF DRAINS SHALL BE REPLACED WITH NEW CAST IRON DRAINS AND BOWLS. MATCH EXISTING SIZE. THE CONTRACTOR TO VERIFY THE DRAINAGE SYSTEM IS FREE OF DEBRIS AT THE CONCLUSION OF THE PROJECT TO ENSURE NO OBSTRUCTIONS IN THE DRAINAGE SYSTEM.
21. PROTECT EXISTING ROOF DRAINS AND PIPES DURING CONSTRUCTION - COVER TO ELIMINATE ROCK AND DEBRIS FROM OPENINGS.
22. MINIMUM R-VALUE SHALL BE 5* MIN (R-30) OF POLYISO INSULATION.
23. COVER AND PROTECT ALL ROOF OPENINGS EACH NIGHT AND PROTECT ALL AREAS OPEN TO WATER DAMAGE.
24. MIN. ROOF SLOPE SHALL BE 1/4" PER FOOT.

KEYNOTES (#)

MARK	DESCRIPTION
02.02	REMOVE EXISTING BUILT UP ROOFING SYSTEM AND INSULATION TO EXISTING DECK - LAYERS VARY. REMOVE EXISTING GRAVEL AND COORDINATE WITH THE OWNER TO DISPOSE AT THEIR GRAVEL PIT. REMOVE ALL REMAINING LAYERS DOWN TO DECK.
02.10	REMOVE ANY EXISTING PITCH POCKETS
05.01	PROVIDE NEW METAL FLASHING, FASCIA AND COUNTER FLASHING AT PARAPETS AND ROOF EDGES - COLOR: TBD - ARCHITECT TO APPROVE SAMPLE - SEE ??/A-501 - FIELD VERIFY TYPES AND PROFILES
07.01	PROVIDE NEW SINGLE-PLY MEMBRANE AND RIGID R-30 POLYISO INSULATION - GLUE DOWN FULLY ADHERED SYSTEM - EXTEND MEMBRANE UP UNDER PARAPET CAP / EXPANSION JOINT WHERE POSSIBLE - PROVIDE TAPERED INSULATION TO ALLOW FOR DRAINAGE WHERE SLOPED STRUCTURE DOES NOT OCCUR OR CRICKETS ARE REQUIRED. SLOPED STRUCTURE
07.02	NEW SINGLE PLY MEMBRANE TO CONTINUE ON PARAPET FACES. ADHERE COVER BOARD TO EXISTING CMU AND ADHERE MEMBRANE TO BOARD FACE
07.03	WALL TO RECIEVE COVERBOARD. ADHERE MEMBRANE TO COVERBOARD AND CONTINUE MEMBRANE UNDER NEW PARAPET CAP
07.04	PROVIDE NEW LIQUID MEMBRANE

DESIGN WEST

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SALT LAKE CITY, UTAH
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USU - VETERINARY SCIENCE - REROOF
USU CAMPUS
LOGAN, UT 84322
UTAH STATE UNIVERSITY

MARK: DESCRIPTION: DATE:

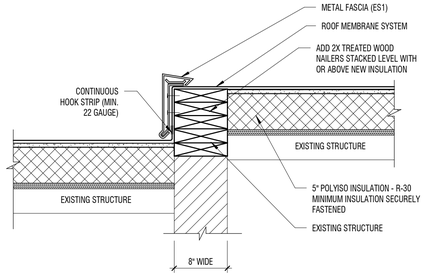
PROJECT #: 324236
DRAWN BY: H HARRIS
CHECKED BY: K LEIKIS
ISSUED: 12.23.2024

STATE OF UTAH
LARRY N HEPWORTH
NO. 134843
12.23.2024
REGISTERED ARCHITECT

BID/ PERMIT SET

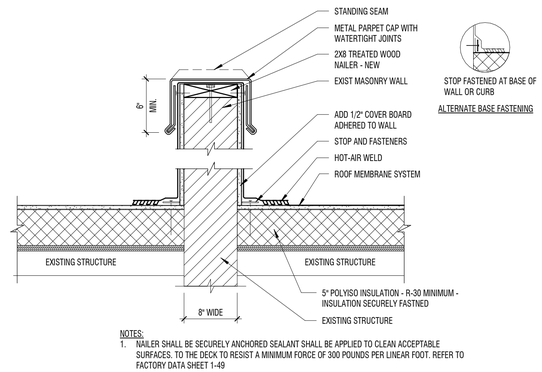
ROOF PHOTOS

A-504



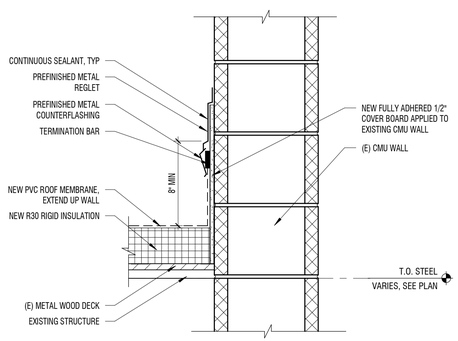
NOTES:
1. NAILER SHALL BE SECURELY ANCHORED SEALANT SHALL BE APPLIED TO CLEAN ACCEPTABLE SURFACES. TO THE DECK TO RESIST A MINIMUM FORCE OF 300 POUNDS PER LINEAR FOOT. REFER TO FACTORY DATA SHEET 1-49

C1 PARAPET W/ METAL FASCIA
1 1/2" = 1'-0"

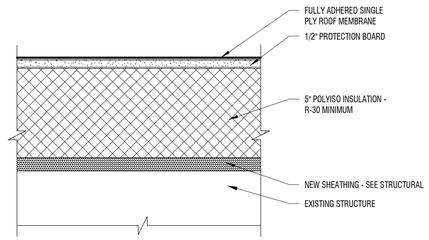


NOTES:
1. NAILER SHALL BE SECURELY ANCHORED SEALANT SHALL BE APPLIED TO CLEAN ACCEPTABLE SURFACES. TO THE DECK TO RESIST A MINIMUM FORCE OF 300 POUNDS PER LINEAR FOOT. REFER TO FACTORY DATA SHEET 1-49

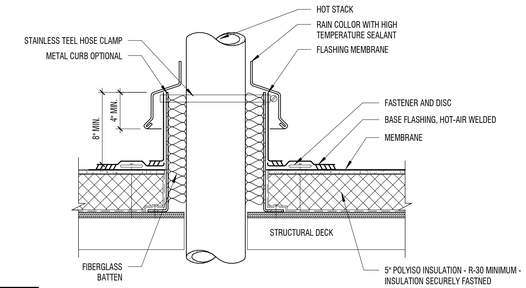
B1 PARAPET W/ METAL COPING CAP
1 1/2" = 1'-0"



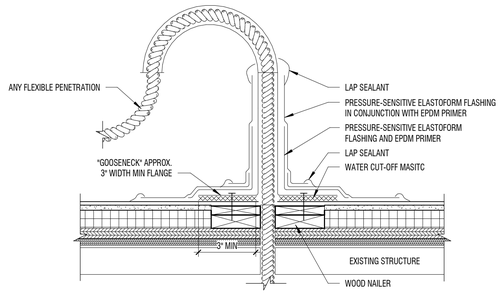
A1 REGLET DETAIL
1 1/2" = 1'-0"



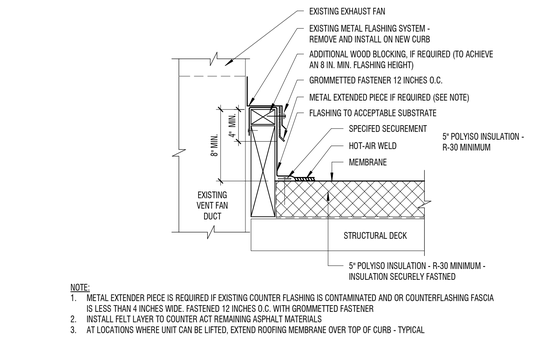
D2 NEW ROOF CROSS SECTION
3" = 1'-0"



C2 HEATED STACK FLASHING
1 1/2" = 1'-0"

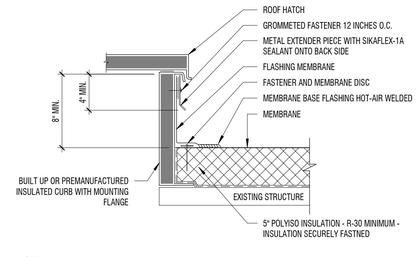


B2 FLEXIBLE PENETRATION
1 1/2" = 1'-0"



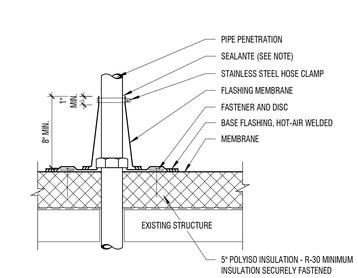
NOTE:
1. METAL EXTENDER PIECE IS REQUIRED IF EXISTING COUNTER FLASHING IS CONTAMINATED AND OR COUNTERFLASHING FASCIA IS LESS THAN 4 INCHES WIDE. FASTENED 12 INCHES O.C. WITH GROMMETTED FASTENER
2. INSTALL FELT LAYER TO COUNTER ACT REMAINING ASPHALT MATERIALS
3. AT LOCATIONS WHERE UNIT CAN BE LIFTED, EXTEND ROOFING MEMBRANE OVER TOP OF CURB - TYPICAL

A2 CURB EXHAUST FAN FLASHING
1 1/2" = 1'-0"

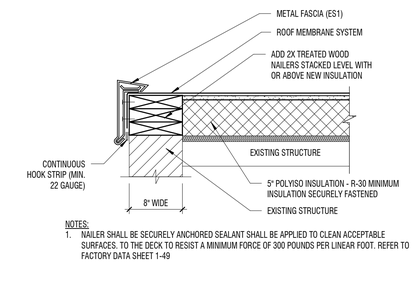


NOTE:
1. METAL FLASHING PIECE IS REQUIRED IF EXISTING COUNTERFLASHING IS CONTAMINATED AND OR COUNTERFLASHING FASCIA IS LESS THAN 4 INCHES WIDE. FASTENED 12 INCHES O.C. WITH GROMMETTED FASTENER

D4 ROOF HATCH FLASHING
1 1/2" = 1'-0"

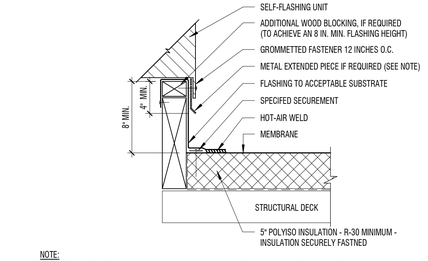


C4 CONE FLASHING AT PENETRATION
1 1/2" = 1'-0"



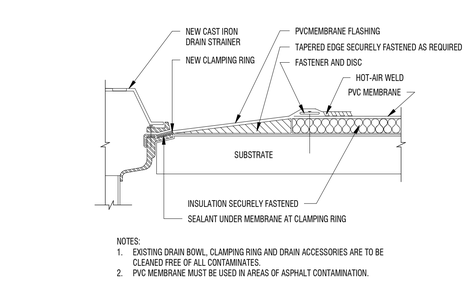
NOTES:
1. NAILER SHALL BE SECURELY ANCHORED SEALANT SHALL BE APPLIED TO CLEAN ACCEPTABLE SURFACES. TO THE DECK TO RESIST A MINIMUM FORCE OF 300 POUNDS PER LINEAR FOOT. REFER TO FACTORY DATA SHEET 1-49

B4 PARAPET W/ METAL FASCIA
1 1/2" = 1'-0"



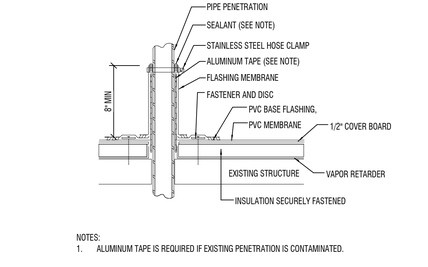
NOTE:
1. METAL EXTENDER PIECE IS REQUIRED IF EXISTING COUNTER FLASHING IS CONTAMINATED AND OR COUNTERFLASHING FASCIA IS LESS THAN 4 INCHES WIDE. FASTENED 12 INCHES O.C. WITH GROMMETTED FASTENER
2. INSTALL FELT LAYER TO COUNTER ACT REMAINING ASPHALT MATERIALS
3. AT LOCATIONS WHERE UNIT CAN BE LIFTED, EXTEND ROOFING MEMBRANE OVER TOP OF CURB - TYPICAL

D5 CURB FLASHING - TYPICAL
1 1/2" = 1'-0"



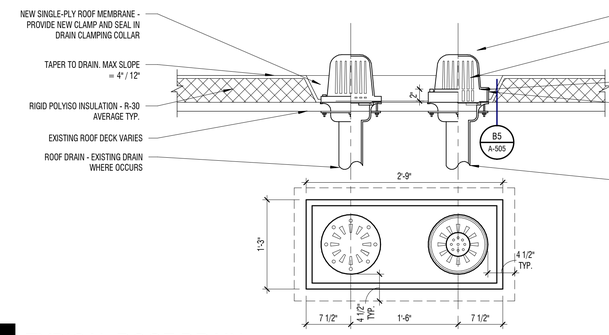
NOTES:
1. EXISTING DRAIN BOWL, CLAMPING RING AND DRAIN ACCESSORIES ARE TO BE CLEANED FREE OF ALL CONTAMINATES.
2. PVC MEMBRANE MUST BE USED IN AREAS OF ASPHALT CONTAMINATION.

B5 CLAMPING RING DRAIN
1" = 1'-0"



NOTES:
1. ALUMINUM TAPE IS REQUIRED IF EXISTING PENETRATION IS CONTAMINATED.

C5 PIPE PENETRATION FLASHING
1 1/2" = 1'-0"



A4 TYPICAL ROOF DRAIN
1" = 1'-0"

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UTAH STATE UNIVERSITY

BID/ PERMIT SET

MARK:	DATE:	DESCRIPTION:

PROJECT #: 324236
DRAWN BY: H HARRIS
CHECKED BY: K LEIKIS
ISSUED: 12.23.2024

STATE OF UTAH
LARRY N HEPWORTH
NO. 134843
12.23.2024
REGISTERED ARCHITECT

ROOF DETAILS
A-505

STRUCTURAL NOTES :

A. GENERAL

1. THE STRUCTURAL NOTES ARE INTENDED TO COMPLEMENT THE PROJECT SPECIFICATIONS WHICH ARE PART OF THE CONSTRUCTION DOCUMENTS. SPECIFIC NOTES AND DETAILS ON THE DRAWINGS SHALL GOVERN OVER THE STRUCTURAL NOTES AND TYPICAL DETAILS.
2. THESE DRAWINGS (AND, WHERE APPLICABLE, ACCOMPANYING WRITTEN SPECIFICATIONS) ARE THE ONLY CONTRACT DOCUMENTS PROVIDED BY ARW ENGINEERS FOR THE PROJECT REPRESENTED HEREIN. NOTHING IN ANY DIGITAL MODEL OR DIGITAL FILE RELATED TO THIS PROJECT SHALL BE TAKEN TO SUPERSEDE ANY INFORMATION SHOWN IN THESE DRAWINGS (INCLUDING, BUT NOT LIMITED TO, DIMENSIONS, SIZES, ETC).
3. THE ARCHITECTURAL DRAWINGS ARE THE PRIME CONTRACT DRAWINGS. THE STRUCTURAL DRAWINGS ARE SUPPLEMENTARY TO AND MUST BE USED IN CONJUNCTION WITH THE ARCHITECTURAL DRAWINGS AND OTHER CONSULTANTS DRAWINGS. ALL OMISSIONS OR CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND/OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND STRUCTURAL ENGINEER BEFORE PROCEEDING WITH ANY WORK INVOLVED. IN CASE OF CONFLICT, FOLLOW THE MOST STRINGENT REQUIREMENT AS DIRECTED BY THE ARCHITECT AT NO ADDITIONAL COST TO THE OWNER.
4. SEE SPECIFICATIONS FOR REQUIRED SUBMITTALS. SUBMITTALS SHALL BE MADE IN A TIMELY MANNER AS INDICATED IN SPECIFICATIONS. REVIEW OF SUBMITTALS BY ARW ENGINEERS IS FOR GENERAL COMPLIANCE ONLY AND IS NOT INTENDED AS APPROVAL. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL SIZES, DIMENSIONS, AND ELEVATIONS ON SUBMITTALS AS RELATED TO DESIGN DOCUMENTS. PREPARATION OF SHOP DRAWINGS FOR STRUCTURAL ELEMENTS WILL REQUIRE INFORMATION (I.E. DIMENSIONS, ETC.) FOUND IN THE ARCHITECTURAL, STRUCTURAL, AND OTHER CONSULTANTS DRAWINGS.
5. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AT THE SITE. IF ACTUAL CONDITIONS DIFFER FROM THOSE SHOWN ON CONTRACT DOCUMENTS, CONTRACTOR SHALL NOTIFY ARCHITECT PRIOR TO FABRICATION OR CONSTRUCTION OF ANY AFFECTED ELEMENTS.
6. THE CONTRACTOR SHALL COORDINATE AND VERIFY ALL LOCATIONS AND SIZES OF MECHANICAL EQUIPMENT OR OTHER EQUIPMENT BEFORE FABRICATING AND ERECTING STRUCTURAL ELEMENTS. SIZES AND LOCATIONS THAT DIFFER FROM THOSE SHOWN ON THE CONTRACT DOCUMENTS SHALL BE REPORTED TO THE ARCHITECT.
7. THE CONTRACTOR SHALL SUBMIT A WRITTEN REQUEST TO THE ARCHITECT FOR ARCHITECT AND/OR ENGINEER APPROVAL BEFORE PROCEEDING WITH ANY CHANGES, MODIFICATIONS, OR SUBSTITUTIONS.
8. OBSERVATION VISITS TO THE SITE BY ARW ENGINEERS FIELD REPRESENTATIVES SHALL NEITHER BE CONSTRUED AS INSPECTION NOR APPROVAL OF CONSTRUCTION.
9. DURING AND AFTER CONSTRUCTION, BUILDER AND/OR OWNER SHALL KEEP LOADS ON STRUCTURE WITHIN THE LIMITS OF DESIGN LOADS AS NOTED IN THESE DOCUMENTS.
10. TYPICAL OR SIMILAR DETAILS AND SECTIONS SHALL APPLY WHERE SPECIFIC DETAILS ARE NOT SHOWN. TYPICAL OR SIMILAR DETAILS REFER TO THE CONDITION ADDRESSED AND ARE NOT NECESSARILY DETAILS LABELED "TYPICAL" OR "SIMILAR" IN THE PLANS AND DOCUMENTS.
11. DRAWINGS AND DETAILS HAVE BEEN PREPARED WITH THE INTENT TO VISUALLY REPRESENT INFORMATION PROVIDED IN SCALED FORM; HOWEVER CONTRACTOR/SUPPLIERS SHOULD NOT SCALE PLANS OR DETAILS FOR DIMENSIONAL INFORMATION.
12. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DESIGN AND INSTALL ADEQUATE TEMPORARY SHORING AND BRACING FOR ALL STRUCTURAL ELEMENTS UNTIL THE ENTIRE STRUCTURAL SYSTEM IS COMPLETED.
13. ENGINEER SHALL NOT BE RESPONSIBLE FOR ACTIVITIES UNDER CONTROL OF THE CONTRACTOR SUCH AS CONSTRUCTION SITE SAFETY, MEANS, METHODS AND SEQUENCING OF CONSTRUCTION. ENGINEER SHALL NOT BE RESPONSIBLE FOR FABRICATION, ERECTION AND CONSTRUCTION REQUIREMENTS AS PRESCRIBED BY OSHA OR OTHER REGULATORY AGENCIES REGARDLESS OF INDICATIONS IN THESE DOCUMENTS.
14. NOTICE OF COPYRIGHT: THESE STRUCTURAL DRAWINGS ARE HEREBY COPYRIGHTED BY ARW ENGINEERS, ALL RIGHTS RESERVED. THESE DOCUMENTS DEFINE A STRUCTURE AND ARE INSTRUMENTS OF SERVICE, FOR ONE USE ONLY. REPRODUCTION AND DISTRIBUTION OF THESE DRAWINGS IS ONLY ALLOWED AS REQUIRED FOR REGULATORY AGENCIES AND FOR CONVEYANCE OF INFORMATION TO PARTIES INVOLVED IN THE CONSTRUCTION OF THIS PROJECT. THESE DOCUMENTS SHALL NOT BE REPRODUCED OR COPIED, IN PART OR WHOLE BY ANY PARTY FOR USE IN PREPARATION OF SHOP DRAWINGS OR OTHER SUBMITTALS.
15. WHERE THE WORD "SHALL" OCCURS IN THESE DRAWINGS AND ANY ACCOMPANYING SPECIFICATIONS, IT IS CONSIDERED A MANDATORY OBLIGATION AND SYNONYMOUS WITH THE PHRASE "HAS DUTY TO".

B. STATEMENT OF SPECIAL INSPECTIONS AND SPECIAL INSPECTIONS

1. THE DESIGNATED SEISMIC/WIND SYSTEMS AND SEISMIC/WIND-FORCE-RESISTING SYSTEMS THAT ARE SUBJECT TO SPECIAL INSPECTIONS IN ACCORDANCE WITH IBC SECTION 1705.12 AND 1705.13 ARE IDENTIFIED ON THESE DOCUMENTS WITH A CIRCLE "L". ALL OTHER ITEMS REQUIRING SPECIAL INSPECTION ARE IDENTIFIED IN THE SPECIAL INSPECTION SCHEDULE ON SHEET S010.
2. SPECIAL INSPECTIONS AND TESTING ARE TO BE PROVIDED AS REQUIRED BY IBC SECTIONS 1704 THROUGH 1705 AND OTHER APPLICABLE SECTIONS OF THE IBC. THE TYPE AND FREQUENCY OF TESTING AND SPECIAL INSPECTIONS SHALL BE AS NOTED IN THE SPECIAL INSPECTION SCHEDULE, JOB SPECIFICATIONS, AND ACCORDANCE WITH IBC SECTION 110 AND CHAPTER 17. CONTRACTOR SHALL COORDINATE AND COOPERATE WITH REQUIRED INSPECTIONS.
3. ALL TESTING AND SPECIAL INSPECTION SHALL BE PROVIDED BY A QUALIFIED INDEPENDENT SPECIAL INSPECTION AGENCY IN ACCORDANCE WITH IBC 1704 AND AS OUTLINED IN THE JOB SPECIFICATIONS. REPORTS OF FINDINGS OR DISCREPANCIES SHALL BE NOTED AND FORWARDED TO THE CONTRACTOR, ARCHITECT, ENGINEERS, AND BUILDING OFFICIAL IN A TIMELY MANNER.
4. STRUCTURAL OBSERVATION VISITS SHALL BE PERFORMED BY A REPRESENTATIVE FROM ARW ENGINEERS IN ACCORDANCE WITH THE CONTRACT AS NEEDED TO OBSERVE THE CONSTRUCTION OF CRITICAL BUILDING ELEMENTS (I.E. FOOTINGS, BRACED FRAMES, MOMENT FRAMES, DRAG STRUTS AND THEIR CONNECTIONS, COLLECTORS, AND ROOF AND FLOOR DIAPHRAGMS). STRUCTURAL OBSERVATION REPORTS FOR EACH VISIT SHALL BE SENT DIRECTLY TO THE ARCHITECT FOR DISTRIBUTION TO THE CONTRACTOR AND BUILDING OFFICIAL. STRUCTURAL OBSERVATION VISITS SHALL NEITHER BE CONSTRUED AS SPECIAL INSPECTION NOR APPROVAL OF COMPLETED CONSTRUCTION.
5. IN ACCORDANCE WITH IBC 1704.4, THE CONTRACTOR SHALL SUBMIT A WRITTEN CONTRACTOR'S STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND OWNER. THE STATEMENT SHALL BE SUBMITTED PRIOR TO THE CONSTRUCTION OF ANY SEISMIC/WIND-FORCE-RESISTING SYSTEM, DESIGNATED SEISMIC/WIND SYSTEM, OR COMPONENT IDENTIFIED IN THESE DOCUMENTS WITH A CIRCLE "L".

C. BASIS OF DESIGN

1. GOVERNING BUILDING CODE : INTERNATIONAL EXISTING BUILDING CODE (IBC) 2021
   RISK CATEGORY : III
2. ROOF LOADS
   a. DEAD LOAD = 15 PSF
3. WIND DESIGN
   a. BASIC WIND SPEED (3 SECOND GUST) : 110 MPH
   b. ALLOWABLE STRESS DESIGN WIND SPEED, V_{ASD} : 85 MPH
   c. WIND EXPOSURE : C
   d. INTERNAL PRESSURE COEFFICIENT, GC_{Pi} : +/- 0.18
4. SEISMIC DESIGN :
   a. SEISMIC IMPORTANCE FACTOR, I_E : 1.25
   b. MAPPED SPECTRAL RESPONSE ACCELERATIONS : S_S = 1.036 , S_1 = 0.346
   c. SPECTRAL RESPONSE COEFFICIENTS : S_{DS} = 0.829 , S_{D1} = 0.450
   d. DESIGN BASE SHEAR : V_{N-S} = 1739 K , V_{E-W} = 1610 K
   e. SEISMIC RESPONSE COEFFICIENT, C_S : 0.518
   f. RESPONSE MODIFICATION FACTOR, R : 2.0
   g. ANALYSIS PROCEDURE : 75% OF ASCE 7-16 EQUIVALENT LATERAL FORCE PROCEDURE

D. ADHESIVE/MECHANICAL ANCHORS

1. WITHOUT WRITTEN APPROVAL OF THE ENGINEER, CONTRACTOR SHALL NOT SUBSTITUTE POST-INSTALLED ANCHORS WHERE CAST-IN-PLACE ANCHORS ARE SPECIFIED IN THE DRAWINGS.
2. WHERE STRUCTURAL DETAILS SPECIFY SPECIFIC BRANDS AND/OR TYPES OF ADHESIVES OR ANCHORS, SUBSTITUTIONS OF OTHER BRANDS AND/OR TYPES IS NOT ALLOWED, WITHOUT WRITTEN APPROVAL OF THE ENGINEER.
3. SUBSTITUTION REQUESTS FOR ALTERNATE PRODUCTS SHALL BE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER OF RECORD PRIOR TO USE. SUBSTITUTION REQUESTS SHALL INCLUDE AN ICC ESR OR IAPMO REPORT AND SUPPORTING CALCULATIONS INDICATING COMPLIANCE WITH DESIGN INTENT.
4. ALL ADHESIVE/MECHANICAL ANCHORS SHALL BE INSTALLED, INCLUDING HOLE DRILLING AND PREPARATION, IN ACCORDANCE WITH AN APPROVED INDEPENDENT EVALUATION REPORT (ICC-ES, IAPMO, OR APPROVED EQUAL), AS INDICATED BELOW, AND IN ACCORDANCE WITH ALL MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPII).
5. INSTALLERS SHALL BE, AT A MINIMUM, TRAINED FOR THE SPECIFIC APPLICATION INSTALLATION TECHNIQUE FOR THE SPECIFIC PRODUCT BY THE PRODUCT MANUFACTURERS FIELD EMPLOYEE OR SHALL POSSESS A TRAINING CARD OBTAINED BY THE MANUFACTURERS ONLINE TRAINING PROGRAM.
6. ADHESIVE ANCHORS SHALL BE INSTALLED IN CONCRETE HAVING A MINIMUM AGE OF 21 DAYS AT TIME OF ANCHOR INSTALLATION. ADHESIVE ANCHORS SHALL NOT BE FULLY LOADED UNTIL CONCRETE HAS REACHED DESIGN STRENGTH.
7. ADHESIVE ANCHORS SHALL CONSIST OF REINFORCING BAR OR THREADED RODS AS INDICATED IN THESE DOCUMENTS.
8. UNLESS APPROVED BY THE ENGINEER OF RECORD, CONCRETE AND DRILLED ANCHOR HOLES SHALL BE DRY AND FREE OF WATER FOR 14 DAYS PRIOR TO ADHESIVE INSTALLATION. CONTACT THE ENGINEER OF RECORD FOR GUIDANCE IF THE CONTRACTOR CHOOSES TO INSTALL IN DAMP, WATER-SATURATED, OR WATER-FILLED HOLES.
9. CONCRETE TEMPERATURE AT THE TIME OF INSTALLATION SHALL BE MONITORED BY THE CONTRACTOR. CONTRACTOR SHALL COMPLY WITH ALL MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPII) RELATIVE TO SUBSTRATE TEMPERATURE.
10. INSTALLATION OF ADHESIVE ANCHORS HORIZONTALLY OR UPWARDLY INCLINED TO SUPPORT SUSTAINED TENSION LOADS SHALL BE PERFORMED BY PERSONNEL CERTIFIED BY AN APPLICABLE CERTIFICATION PROGRAM. CERTIFICATION SHALL INCLUDE WRITTEN AND PERFORMANCE TESTS IN ACCORDANCE WITH THE ACI/CRSI ADHESIVE ANCHOR INSTALLER CERTIFICATION PROGRAM, OR EQUIVALENT IN ACCORDANCE WITH ACI 318-19 26.7.2 (e) PROOF OF CURRENT CERTIFICATION SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO INSTALLATION. CONTINUOUS SPECIAL INSPECTION SHALL BE PROVIDED FOR THESE ANCHORS.
11. UNLESS NOTED OTHERWISE, ALL ADHESIVE ANCHORS INTO CONCRETE SHALL BE:
    a. HILTI HIT-RE 500V3 (ESR-3814), OR HILTI HIT-HY 200-V3 (ESR-4868).
    b. SIMPSON SET-3G (ESR-4057), OR AT-XP (ER-263).
    c. DEWALT PURE 110+ (ESR-3298), OR AC200+ GOLD (ESR-4027-COLD WEATHER).
12. UNLESS NOTED OTHERWISE, ALL ADHESIVE ANCHORS INTO GROUTED MASONRY (CMU) SHALL BE:
    a. HILTI HIT-HY 270 (ESR-4143).
    b. SIMPSON SET-3G (ESR-4844), OR AT-XP (ER-281).
    c. DEWALT AC100+ GOLD (ESR-3200).
13. UNLESS NOTED OTHER WISE, ALL MECHANICAL ANCHORS INTO CONCRETE SHALL BE:
    a. HILTI KWIK BOLT-TZ2 (ESR-4266).
    b. SIMPSON STRONG-BOLT 2 (ESR-3037).
14. UNLESS NOTED OTHERWISE, ALL MECHANICAL ANCHORS INTO GROUTED MASONRY (CMU) SHALL BE:
    a. HILTI KWIK BOLT-TZ2 (ESR-4561).
    b. SIMPSON STRONG BOLT 2 (ER-240).
    c. DEWALT SCREWBOLT+ (ESR-4042).
15. UNLESS NOTED OTHERWISE, ALL SCREW ANCHORS INTO CONCRETE SHALL BE:
    a. SIMPSON TITEN HD (ESR-2713).
    b. DEWALT SCREWBOLT+ (ESR-3889).
    c. HILTI KH-EZ (ESR-3027).
16. UNLESS NOTED OTHERWISE, ALL SCREW ANCHORS INTO GROUTED MASONRY (CMU) SHALL BE:
    a. SIMPSON TITEN HD (ESR-1056).
    b. DEWALT SCREWBOLT+ (ESR-1678).
    c. HILTI KH EZ (ESR-3056).
17. ALL MASONRY CELLS WITHIN 8" OF THE ANCHOR SHALL BE SOLID GROUTED.
18. THE TESTING LABORATORY WILL PERFORM VISUAL INSPECTION OF ANCHORS AND DOWELS AS SPECIFIED IN THE SPECIAL INSPECTION SCHEDULE AND THE APPROVED INDEPENDENT EVALUATION REPORT. TENSION TESTING CAN BE REQUIRED AT THE DIRECTION OF THE STRUCTURAL ENGINEER OF RECORD OR THE SPECIAL INSPECTOR.
19. IF REINFORCEMENT IS ENCOUNTERED DURING DRILLING, ABANDON THAT HOLE AND SHIFT THE ANCHOR LOCATION TO AVOID THE REINFORCEMENT. PROVIDE A MINIMUM SPACE OF (2) ANCHOR HOLE DIAMETERS OR 2 INCHES, WHICH EVER IS LARGER, OF SOUND CONCRETE/MASONRY BETWEEN THE ANCHOR AND THE ABANDONED HOLE. FILL THE ABANDONED HOLE WITH NON-SHRINK GROUT OR AN APPROVED ANCHORING ADHESIVE. AT CONTRACTORS OPTION, LOCATE EXISTING REINFORCEMENT PRIOR TO DRILLING/CORING. IF THE ANCHOR OR DOWEL CANNOT BE SHIFTED AS NOTED ABOVE, THE ENGINEER WILL DETERMINE A NEW LOCATION.
20. LOCATE REINFORCEMENT AND CONFIRM FINAL ANCHOR LOCATIONS PRIOR TO FABRICATING PLATES, MEMBERS, OR OTHER STEEL ASSEMBLIES ATTACHED WITH MECHANICAL ANCHORS.

E. TIMBER

1. WOOD GRADES (UNLESS NOTED OTHERWISE)
   a. ALL FRAMING LUMBER SHALL BE *DOUGLAS FIR/LARCH* CLEARLY MARKED WITH A STAMP BY WWPA APPROVED AGENCY AND SHALL BE GRADED AS FOLLOWS:
      1. HORIZONTAL MEMBERS: JOISTS & RAFTERS: NO. 2, BEAMS & STRINGERS: NO. 2.
      2. VERTICAL MEMBERS: POST & TRIMMERS: NO. 1, STUDS: NO. 2.
   b. ALL FRAMING IN CONTACT WITH FOOTINGS, FOUNDATIONS OR SLABS ON GRADE SHALL BE PRESSURE TREATED OR TIMBERSTRAND LSL TREATED LUMBER WITH EQUIVALENT STRESS GRADES TO TYPICAL FRAMING MEMBERS.
   c. GLU-LAMINATED BEAMS SHALL BE DOUGLAS-FIR *INDUSTRIAL / ARCHITECTURAL / PREMIUM* APPEARANCE GRADE WITH A COMBINATION NUMBER 24F-V4 EXCEPT CANTILEVERED AND CONTINUOUS BEAMS SHALL BE COMBINATION NUMBER 24F-V8.
   d. UNLESS NOTED OTHERWISE, ALL ENGINEERED LUMBER SHALL BE FURNISHED BY TRUS-JOIST CORPORATION OR APPROVED EQUAL AND SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES :

	MODULUS OF ELASTICITY	FLEXURAL STRESS RATING
LVL :	2,000,000 PSI	2,600 PSI
PSL :	2,000,000 PSI	2,900 PSI
LSL :	1,500,000 PSI	2,250 PSI

   e. ALL WOOD "I" JOISTS AND BRIDGING SHALL BE FURNISHED BY TRUS-JOIST CORPORATION OR APPROVED EQUAL.
2. SHEATHING SHALL BE APA RATED SHEATHING, EXPOSURE I, EXTERIOR GLUE AND PANEL INDEX RATING AS NOTED BELOW UNLESS NOTED OTHERWISE :

LOCATION	THICKNESS	PANEL INDEX
ROOFS :	19/32"	32/16

3. INDIVIDUAL PIECES OF SHEATHING AT ROOF, FLOOR, AND SHEAR WALLS SHALL NOT BE SMALLER THAN 24" IN EITHER DIRECTION AND SHALL SPAN A MINIMUM OF TWO FRAMING SPACES, UNO.
4. ALL 23/32" FLOOR SHEATHING SHALL BE TONGUE AND GROOVE UNLESS NOTED OTHERWISE.
5. CONNECTIONS, FASTENERS, AND ADHESIVE
   a. ALL BOLTS THRU WOOD SHALL BE ASTM A307 AND SHALL HAVE HARDENED WASHERS UNDER ASTM A563 HEAVY HEX NUT AND BOLT HEADS.
   b. UNLESS NOTED OTHERWISE, *10d COMMON (0.148)* NAILS SHALL BE USED TO FASTEN ALL FLOOR AND ROOF SHEATHING TO SUPPORTING TRUSSES, JOISTS, LEDGERS OR BLOCKING AS FOLLOWS:
      1. BOUNDARY NAILING "BN": *4"* O.C. AT ALL BEARING WALLS, SHEAR WALLS, BLOCKING, AND WHERE OTHERWISE INDICATED IN THE STRUCTURAL DRAWINGS.
      2. PANEL EDGE NAILING "EN": *6"* O.C. AT ALL OTHER SHEATHING PANEL EDGES.
      3. PANEL FIELD NAILING "FN": *12"* O.C. AT INTERIOR SUPPORTS IN FIELD OF PANEL.
   c. NAILS SHALL BE GALVANIZED OR STAINLESS STEEL AT EXPOSED LOCATIONS OR IN TREATED WOOD (SEE NOTE BELOW FOR FASTENERS CONNECTED TO OR IN CONTACT WITH TREATED WOOD). THE HEAD OF ALL NAILS SHALL BE DRIVEN FLUSH WITH THE SURFACE OF THE SHEATHING.
   d. EXCEPT WHERE NOTED OTHERWISE, THE NUMBER AND SIZE OF NAILS CONNECTING WOOD MEMBERS SHALL NOT BE LESS THAN THAT SET FORTH IN IBC TABLE 2304.10.2. MULTIPLE PLIES OF ENGINEERED LUMBER SHALL BE FASTENED TOGETHER IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS.
   e. UNLESS NOTED OTHERWISE, ALL NAILS SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES :

COMMON NAIL SIZE	SHANK DIAMETER	HEAD DIAMETER	LENGTH	MIN. PENETRATION INTO SUPPORT MEMBER
6d	0.113"	0.266"	2"	1.25"
8d	0.131"	0.281"	2-1/2"	1.375"
10d	0.148"	0.312"	3"	1.50"
12d	0.148"	0.312"	3-1/4"	1.50"
16d	0.162"	0.344"	3-1/2"	1.62"

   f. A CONTINUOUS BEAD OF PERMANENT BOND TIMBER/WOOD ADHESIVE COMPOUND SHALL BE USED TO FASTEN ALL FLOOR SHEATHING TO FLOOR JOISTS IN ACCORDANCE WITH MANUFACTURERS' SPECIFICATIONS.
   g. ALL FRAMING ANCHORS, POST CAPS, HOLD DOWNS, COLUMN BASES ETC. TO BE PROVIDED BY SIMPSON OR APPROVED EQUAL AND SHALL BE ATTACHED IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED DATA, UNLESS NOTED OTHERWISE.
   h. UNLESS NOTED OTHERWISE, ALL WALL BOTTOM PLATES TO BE ANCHORED TO FOUNDATIONS OR FOOTINGS WITH 3/4" DIAMETER ANCHOR BOLTS AT 32"O.C. WITH 8" MINIMUM EMBEDMENT. THERE SHALL BE A MINIMUM OF (2) ANCHOR BOLTS PER PLATE WITH ONE BOLT LOCATED NOT MORE THAN 12" AND NOT LESS THAN 4" FROM EACH END OF EACH PIECE.
   i. WALL BOTTOM PLATES AT SHEAR WALLS SHALL INCLUDE 1/4" x 3" x 3" STEEL PLATE WASHERS BETWEEN THE SILL PLATE AND NUT OF THE ANCHOR BOLT. THE HOLE IN THE PLATE WASHER IS PERMITTED TO BE DIAGONALLY SLOTTED WITH A WIDTH UP TO 3/16" LARGER THAN THE BOLT DIAMETER AND SLOT LENGTH NOT TO EXCEED 1-3/4", PROVIDED A STANDARD CUT WASHER IS PLACED BETWEEN THE PLATE WASHER AND THE NUT. THE PLATE WASHER SHALL EXTEND TO WITHIN ½" OF THE EDGE OF THE BOTTOM PLATE ON THE SHEATHED SIDE.
   j. FASTENERS CONNECTED TO OR IN CONTACT WITH PRESERVATIVE-TREATED AND/OR FIRE-RETARDANT-TREATED WOOD (EXCEPT FOR TIMBERSTRAND LSL TREATED LUMBER AND BORATE BASED TREATMENTS) SHALL BE OF G-185 HOT-DIP GALVANIZED STEEL OR 304 OR 316 STAINLESS STEEL. STAINLESS STEEL AND GALVANIZED STEEL SHALL NEVER BE USED IN CONTACT WITH EACH OTHER.
6. AT ALL OVERBUILD LOCATIONS, ROOF SHEATHING SHALL BE COMPLETE BELOW OVERBUILDS PRIOR TO OVERBUILD CONSTRUCTION.
7. UNLESS NOTED OTHERWISE, ALL HORIZONTAL FRAMING MEMBERS SHALL BE INSTALLED WITH THE NATURAL CROWN UP.

F. EXISTING BUILDING NOTES

1. ARW ENGINEERS EXPRESSLY DISCLAIMS RESPONSIBILITY FOR ANY PORTION OF THE EXISTING BUILDING NOT SPECIFICALLY ADDRESSED IN THESE DRAWINGS.
2. DRAWINGS AND DETAILS HAVE BEEN PREPARED TO REFLECT THE EXISTING CONDITIONS AND CONFIGURATIONS OF STRUCTURAL ELEMENTS. HOWEVER, THE CONTRACTOR IS ULTIMATELY RESPONSIBLE FOR VERIFYING ALL EXISTING CONDITIONS AND ALERTING THE ENGINEER OF ANY DISCREPANCIES FOUND PRIOR TO FABRICATING OR INSTALLING STRUCTURAL ELEMENTS.
3. THE CONTRACTOR IS RESPONSIBLE FOR MAKING SURE THAT THE BUILDING AND ELEMENTS WITHIN THE BUILDING REMAIN STABLE UNTIL CONSTRUCTION IS COMPLETE. AT NO ADDITIONAL COST TO THE OWNER, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SHORING OR OTHER TEMPORARY SUPPORT OF STRUCTURAL MEMBERS UNTIL THE FINAL CONFIGURATION HAS BEEN COMPLETED.

Structural Sheet Index

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STRUCTURAL NOTES

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COIL STRAP LAP SPLICE SCHEDULE

SIMPSON STRONG-TIE MODEL #	LAP SPLICE				COMMENTS
	MIN. # FASTENER PER SPLICE	MIN. SPLICE LENGTH STACKED	MIN. # FASTENER PER SPLICE	MIN. SPLICE LENGTH SIDE-BY-SIDE	
CMST 12	(18) 16d	18"	(37) 16d	33"	
	(22) 10d	21"	(43) 10d	39"	
CMST 14	(13) 16d	14"	(28) 16d	26"	
	(15) 10d	15"	(33) 10d	30"	
CMSTC 16					
	(11) 10d	10"	(25) 10d	20"	
CS 14	(6) 10d	9"	(13) 10d	15"	
	(7) 8d	10"	(15) 8d	16"	
CS 16	(5) 10d	8"	(10) 10d	11"	
	(6) 8d	9"	(11) 8d	13"	
CS 18	(5) 10d	8"	(8) 10d	9"	
	(5) 8d	8"	(8) 8d	11"	
CS 20	(5) 10d	8"	(5) 10d	6"	
	(5) 8d	8"	(6) 8d	9"	
CS 22	(4) 10d	5"	(5) 10d	7"	
	(4) 8d	6"	(6) 8d	6"	

NOTES:
1. NO STRAP MODIFICATION IS ALLOWED.
2. SPLICE MUST MEET BOTH THE MINIMUM NUMBER OF FASTENERS AND THE MINIMUM SPLICE LENGTH.
3. ALL NAIL SIZES LISTED ARE COMMON NAILS.
4. 10d COMMON MAY BE REPLACED BY 16d SINKERS. NO OTHER NAIL SUBSTITUTION IS ALLOWED FOR LAP SPLICES.
5. IF WOOD SPLITTING OCCURS, USE EVERY OTHER NAIL HOLE AND LENGTHEN SPLICE TO ACCOMMODATE THE REQUIRED NUMBER OF NAILS. SEE MANUFACTURER FOR MORE INFORMATION.
6. STRAPS SHALL BE INSTALLED BELOW SHEATHING WHERE IMPACTS TO ARCHITECTURAL FINISHES OCCUR. OTHERWISE STRAPS MAY BE INSTALLED ABOVE OR BELOW SHEATHING AT CONTRACTORS OPTION. SEE DETAILS BELOW. IMPACTS TO THE FINISHES AND ROOFING SHALL BE CONSIDERED WHEN DETERMINING STRAP LOCATION.
7. TWO OPTIONS EXIST FOR COIL STRAP LAPPING.
   a. LAP ONE STRAP STACKED ON TOP OF THE OTHER STRAP.
   b. INSTALL STRAPS SIDE BY SIDE - TO DO THIS A LARGER BLOCK MUST BE USED. THE BLOCK MUST BE ON SOLID PIECE.
8. STRAP TO BE INSTALLED TIGHT.
9. OTHER MANUFACTURER STRAPS MAY BE USED AT CONTRACTORS OPTION. STRAP CAPACITY SHALL MEET OR EXCEED THAT OF THE SPECIFIED SIMPSON STRAP. USE MANUFACTURERS SPECIFIC INFORMATION FOR STRAP INSTALLATION.
10. LISTED LENGTHS ARE ASSUMING THAT ALL NAIL HOLES ARE USED. SEE MANUFACTURER INFORMATION FOR EVERY OTHER HOLE INSTALLATION.

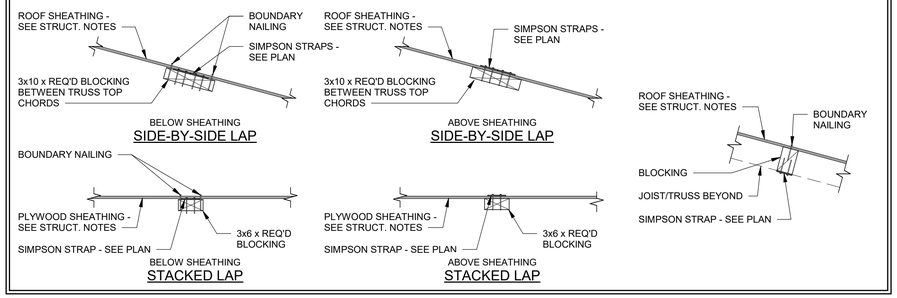


TABLE OF EQUIVALENT FASTENERS

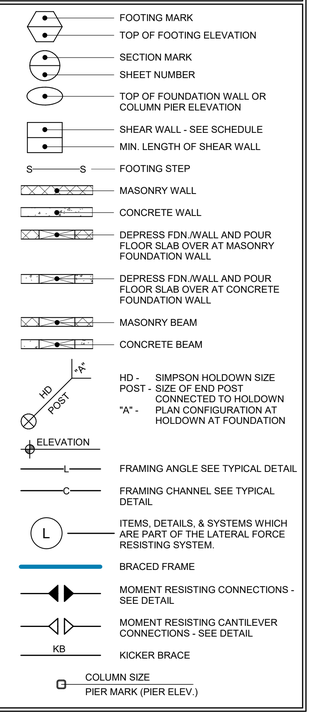
STAPLES, NAILS AND T-NAILS (VALID FOR LATERAL LOADS ONLY)

COMMON NAIL SPACING		EQUIVALENT SPACING OF APPROVED FASTENERS				
		STAPLES			NAILS & T-NAILS	
GAUGE		16	15	14	.113	.131
PENETRATION		1"	1"	1"	1 1/4"	1 1/2"
6d AT:	4"	3 1/2"	4"	5"	4"	5"
	6"	5"	6"	7"	6"	7 1/2"
	8"	6 1/2"	8"	9 1/2"	8"	10"
	10"	8 1/2"	10"	12"	10"	12"
	12"	10"	12"	14 1/2"	12"	14 1/2"
8d AT:	4"	2 1/2"	3 1/2"	4"	3 1/2"	4"
	6"	4"	5"	6"	5"	6"
	8"	5 1/2"	6 1/2"	8"	6 1/2"	8"
	10"	6 1/2"	8"	10"	8"	10"
	12"	8"	10"	12"	9 1/2"	12"
10d AT:	4"	2"	2 1/2"	3"	2 1/2"	3 1/2"
	6"	3 1/2"	4"	5"	4"	5"
	8"	4 1/2"	5 1/2"	6 1/2"	5 1/2"	7"
	10"	5 1/2"	7"	8"	6 1/2"	8 1/2"
	12"	6 1/2"	8"	9 1/2"	8"	10"

NOTES:
PENETRATION IS THE DEPTH OF EMBEDMENT OF THE STAPLE OR NAIL INTO THE MAIN MEMBER REQUIRED TO ATTAIN ITS FULL CAPACITY (SHEAR VALUE) FOR LATERAL LOADING.

LEGEND OF SYMBOLS AND ABBREVIATIONS

AB = ANCHOR BOLT
ABV = ABOVE
ARCH = ARCHITECT
BLW = BELOW
BN = BOUNDARY NAILING
BS = BOUNDARY SCREW
BRB = BUCKLING RESTRAINED BRACE
BRBF = BUCKLING RESTRAINED BRACE FRAME
CJP = COMPLETE JOINT PENETRATION
CL = CENTERLINE
CMU = CONCRETE MASONRY UNIT
COL = COLUMN
CONC = CONCRETE
CP = CONCRETE PIER
DC = DEMAND CRITICAL
DIA / Ø = DIAMETER
DBA = DEFORMED BAR ANCHOR
DBE = DECK BEARING ELEVATION
ELEV = ELEVATION
EN = EDGE NAILING
EOD = EDGE OF DECK
FDN = FOUNDATION
FTG = FOOTING
FFE = FINISHED FLOOR ELEVATION
GB = CONCRETE GRADE BEAM
HSA = HEADED STUD ANCHOR
JBE = JOIST BEARING ELEVATION
KB = KICKER BRACE
MAX = MAXIMUM
MB = MASONRY BEAM
MC = MASONRY COLUMN
MECH = MECHANICAL
MEZZ = MEZZANINE
MIN = MINIMUM
MJ = MASONRY JAMB
MW = MASONRY WALL
NS, FS = NEAR SIDE, FAR SIDE
OAE = OR APPROVED EQUAL
OPP = OPPOSITE
PAF = POWDER ACTUATED FASTENER
PL = PLATE
REINF = REINFORCING
REQ'D = REQUIRED
SIM = SIMILAR
SSH = STEEL STUD HEADER
SSJ = STEEL STUD JAMB
SSS = STEEL STUD SILL
SSW = STEEL STUD WALL
TOB = TOP OF BEAM ELEVATION
TOC = TOP OF CONCRETE SLAB
TOF = TOP OF FOOTING
TOG = TOP OF GIRDER ELEVATION
TOM = TOP OF MASONRY
TOS = TOP OF STEEL ELEVATION
TYP = TYPICAL
UNO = UNLESS NOTED OTHERWISE



SPECIAL INSPECTION SCHEDULE [1, 2]

ESTABLISHED PER 2021 IBC SECTION 110 AND CHAPTER 17

ITEM	CONTINUOUS[3]	PERIODIC[3]	REFERENCE	COMMENTS
CONCRETE CONSTRUCTION (IBC 1705.3)			SEE IBC TABLE 1705.3 - REF. NOTE C1	C 1. SPECIAL INSPECTION IS NOT REQUIRED FOR CONC. ISOLATED SPREAD FOOTINGS, CONTINUOUS FOOTINGS, NON-STRUCTURAL SLABS, FOUNDATION WALLS, PATIOS, DRIVEWAYS, AND SIDEWALKS PROVIDED THE REQUIREMENTS OF IBC 1705.3 ARE MET.
POST-INSTALLED ANCHOR PLACEMENT	●	●	REFERENCE NOTE C5	C 2. PERIODIC SPECIAL INSPECTION IS ALLOWED FOR VERIFICATION OF THE WELDABILITY OF REINFORCING STEEL RESISTING FLEXURAL AND AXIAL FORCES IN INTERMEDIATE AND SPECIAL MOMENT FRAMES, BOUNDARY ELEMENTS OF SPECIAL REINFORCED CONCRETE SHEAR WALLS, AND SHEAR REINFORCEMENT. PERIODIC SPECIAL INSPECTION IS ALLOWED FOR WELDING OF OTHER ASTM A 706 REINFORCING STEEL NOT INCLUDED IN THE CONTINUOUS SPECIAL INSPECTION REQUIREMENTS NOTED ABOVE.
				C 3. PERFORM AIR, SLUMP AND TEMP. TESTS WHEN CONCRETE SAMPLES ARE CAST.
				C 4. PERIODIC SPECIAL INSPECTION IS REQUIRED FOR VERIFICATION OF IN-SITU CONCRETE STRENGTH PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.
				C 5. EPOXY AND EXPANSION ANCHORS INTO MASONRY OR CONCRETE MAY BE USED ONLY WHEN APPROVED BY ARCHITECT AND/OR ENGINEER USING AN APPROVED PRODUCT WITH CURRENT PUBLISHED ICC RESEARCH REPORT NUMBERS. COORDINATE CONTINUOUS/PERIODIC SPECIAL INSPECTION REQUIREMENTS WITH ICC REPORT AND ACI 318: 17.8.2.4.
				C 6. CONTINUOUS SPECIAL INSPECTION IS REQUIRED FOR PRECAST CONCRETE DIAPHRAGM CONNECTIONS OR REINFORCEMENT AT JOINTS CLASSIFIED AS MODERATE OR HIGH DEFORMABILITY ELEMENTS IN STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY C, D, E, OR F.
				C 7. PERIODIC SPECIAL INSPECTION IS REQUIRED FOR THE INSTALLATION TOLERANCES OF PRECAST CONCRETE DIAPHRAGM CONNECTIONS FOR COMPLIANCE WITH ACI 550.5.
				C 8. PERIODIC SPECIAL INSPECTION IS REQUIRED FOR FORMWORK SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.
WOOD (IBC 1705.5 & 1705.12.1 & 1705.13.2)				W 1. WOOD STRUCTURAL PANEL SHEATHING SHALL BE INSPECTED TO ASCERTAIN THAT GRADE AND THICKNESS ARE IN COMPLIANCE WITH APPROVED BUILDING PLANS. NOMINAL SIZE OF FRAMING MEMBERS AT ADJOINING PANEL EDGES, THE NAIL OR STAPLE DIAMETER AND LENGTH, THE NUMBER OF FASTENER LINES, AND SPACING BETWEEN FASTENERS IN EACH LINE AND AT EDGE MARGINS SHALL ALSO BE INSPECTED AND VERIFIED FOR COMPLIANCE WITH APPROVED BUILDING PLANS.
SITE-BUILT ASSEMBLIES		●		
SHEAR WALL & DIAPHRAGM NAILING		●	REFERENCE NOTE W2	
DRAG STRUTS		●		W 2. SPECIAL INSPECTIONS ARE NOT REQUIRED FOR WOOD SHEAR WALLS, SHEAR PANELS AND DIAPHRAGMS, INCLUDING NAILING, BOLTING, ANCHORING AND OTHER FASTENING TO OTHER ELEMENTS OF THE LATERAL FORCE RESISTING SYSTEM, WHERE THE LATERAL RESISTANCE IS PROVIDED BY STRUCTURAL SHEATHING AND THE SPECIFIED FASTENER SPACING AT PANEL EDGES IS MORE THAN 4"o.c.
BRACES & SHEAR PANELS		●		
HOLDOWNS		●		
GLUING OPERATIONS	●			W 3. SPECIAL INSPECTION SHALL BE PERFORMED TO VERIFY THAT THE INSTALLATION OF TEMPORARY AND PERMANENT RESTRAINT/BRACING IS INSTALLED IN ACCORDANCE WITH THE APPROVED TRUSS SUBMITTAL PACKAGE.

GENERAL SPECIAL INSPECTION NOTES :

1. THE ITEMS MARKED WITH A "●" IN THE SPECIAL INSPECTION SCHEDULE SHALL BE INSPECTED IN ACCORDANCE WITH IBC CHAPTER 17 BY A CERTIFIED SPECIAL INSPECTOR FROM AN ESTABLISHED TESTING AGENCY. FOR MATERIAL SAMPLING AND TESTING REQUIREMENTS, REFER TO THE MATERIAL SAMPLING AND TESTING SECTION, THE PROJECT SPECIFICATIONS, AND THE SPECIFIC GENERAL NOTES SECTIONS. THE TESTING AGENCY SHALL SEND COPIES OF ALL STRUCTURAL TESTING AND INSPECTION REPORTS DIRECTLY TO THE ARCHITECT, ENGINEER, CONTRACTOR, AND BUILDING OFFICIAL. ANY ITEMS WHICH FAIL TO COMPLY WITH THE APPROVED CONSTRUCTION DOCUMENTS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF DISCREPANCIES ARE NOT CORRECTED, THEY SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL, ARCHITECT, AND ENGINEER PRIOR TO COMPLETION OF THAT PHASE OF WORK. SPECIAL INSPECTION TESTING REQUIREMENTS APPLY EQUALLY TO ALL BIDDER DESIGNED COMPONENTS.
2. ANY CONSTRUCTION OR MATERIAL THAT HAS FAILED INSPECTION SHALL BE SUBJECT TO REMOVAL AND REPLACEMENT.
3. CONTINUOUS SPECIAL INSPECTION MEANS THE FULL-TIME OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK IS BEING PERFORMED. PERIODIC SPECIAL INSPECTION MEANS THE PART-TIME OR INTERMITTENT OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK HAS BEEN OR IS BEING PERFORMED AND AT THE COMPLETION OF THE WORK. (IBC SECTION 202)

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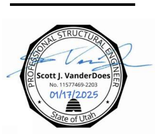

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SCHEDULES
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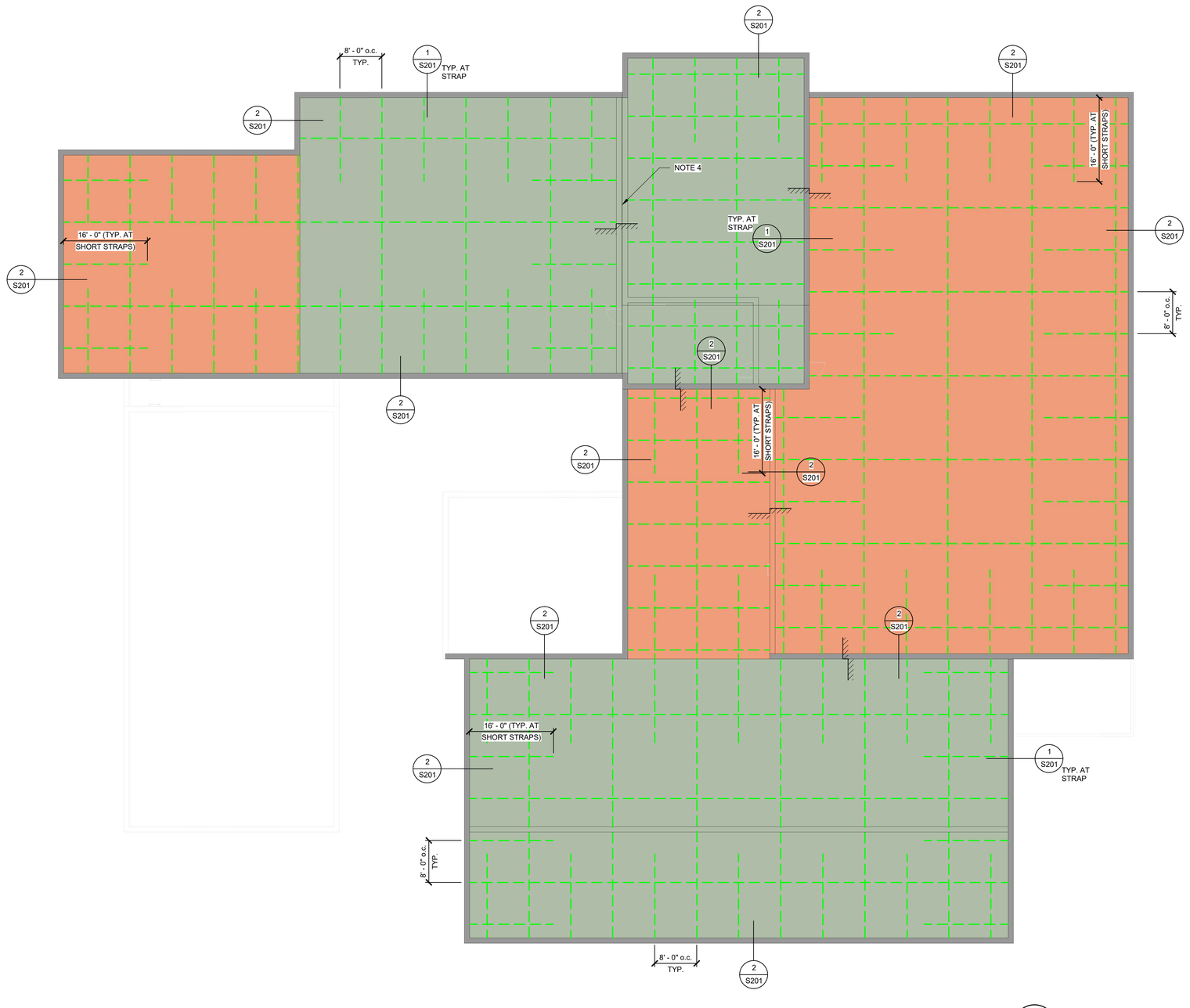
ROOF FRAMING NOTES :

1. SEE SHEET S001 FOR GENERAL STRUCTURAL NOTES.
2. [redacted] = REMOVE EXISTING OVERBUILDS (WHERE OCCURS) AND EXISTING PLYWOOD SHEATHING DOWN TO THE EXISTING T&G. APPLY NEW 19/32" SHEATHING TO THE T&G AND FASTEN WITH 10d NAILS @ 6" O.C. AT ALL PANEL EDGES.
3. [redacted] = REMOVE EXISTING OVERBUILDS (WHERE OCCURS) AND EXISTING PLYWOOD SHEATHING DOWN TO THE EXISTING T&G. APPLY NEW 19/32" SHEATHING TO THE T&G AND FASTEN WITH 10d NAILS @ 4" O.C. AT ALL PANEL EDGES.
4. EXISTING EXPANSION JOINT
5. — — — = INDICATES CMST12 STRAP - SEE SCHEDULE



ROOF FRAMING PLAN

SCALE : 3/32" = 1'-0"

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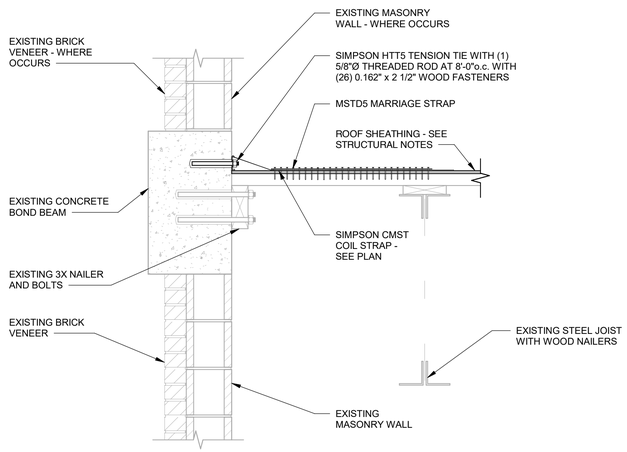
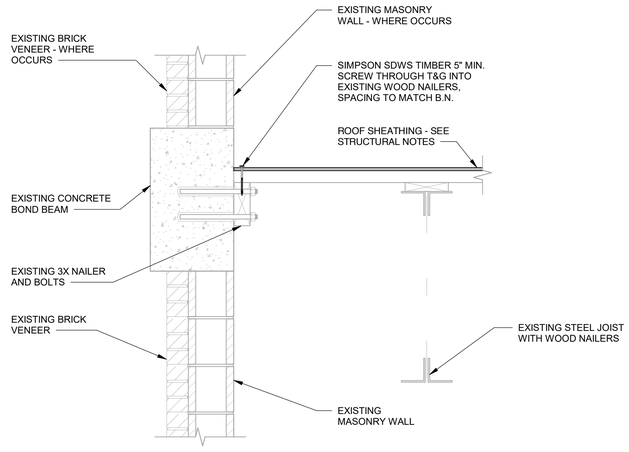
ROOF FRAMING PLAN

S101



DETAIL 1/S201 L
SCALE : NONE



DETAIL 2/S201 L
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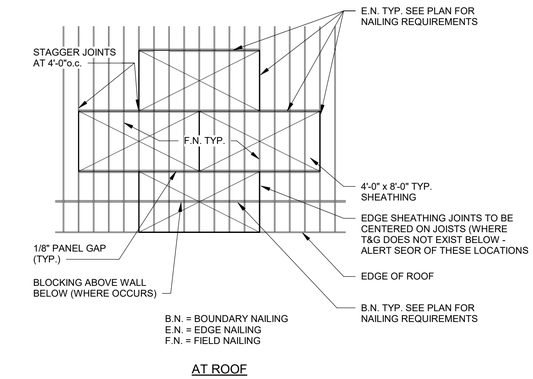

AT ROOF

TYP. SHEATHING LAYOUT 3/S201 L
SCALE : NONE

BID/ PERMIT SET

DESIGN WEST
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(435) 752-7031
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USU - VETERINARY SCIENCE - REROOF
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PROFESSIONAL STRUCTURAL ENGINEER
Scott J. VanderDoes
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TYPICAL DETAILS
S201

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