DESIGN TEAM

LANDSCAPE

DESIGN WEST ARCHITECTS 255 SOUTH 300 WEST - 795 NORTH 400 WEST

LOGAN, UT 84321 - SALT LAKE CITY, UT 84103 PHONE: 435.752.7031 - 801.539.8221 EMAIL: kenia@designwestarchitects.com CONTACT: KENI ALTHOUSE, PLA

OWNER

CACHE COUNTY FAIRGROUNDS

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INDEX OF DRAWINGS

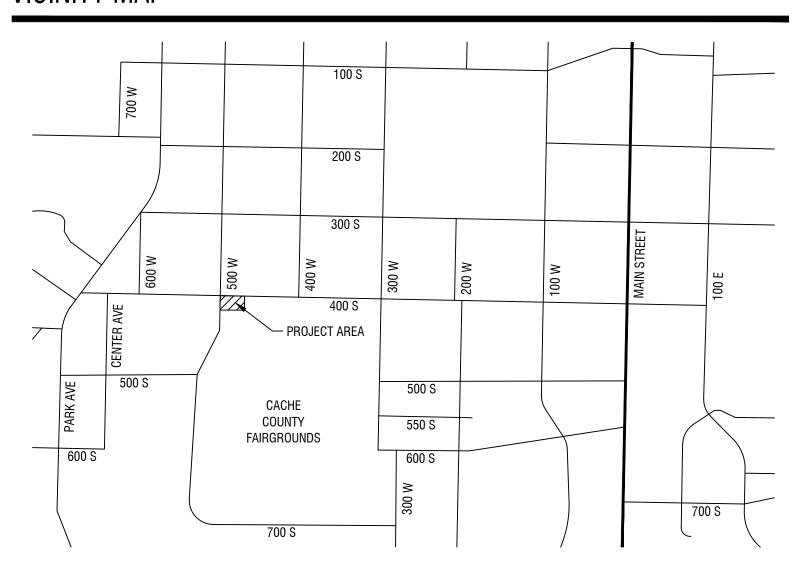
COVER SHEET GENERAL SPECIFICATIONS

GENERAL SPECIFICATIONS

C-501

SITE SPECIFICATIONS MONUMENT SIGN SPECIFICATIONS DEMOLITION PLAN AND SITE PLAN SITE DETAILS

VICINITY MAP



DESIGN

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

SIGN MONUMENT **FAIRGROUNDS**

COUNTY

CACHE



SECTION 012500

END OF SECTION

SUBSTITUTION PROCEDURES

PART 1 GENERAL

1.01 DEFINITIONS

- A. SUBSTITUTIONS: CHANGES FROM CONTRACT DOCUMENTS REQUIREMENTS PROPOSED BY CONTRACTOR TO MATERIALS, PRODUCTS, ASSEMBLIES, AND EQUIPMENT.
- 1. SUBSTITUTIONS FOR CAUSE: PROPOSED DUE TO CHANGED PROJECT CIRCUMSTANCES BEYOND CONTRACTOR'S CONTROL.

DESIGN WEST ARCHITECTS

KENIA@DESIGNWESTARCHITECTS.COM

255 SOUTH 300 WEST

LOGAN, UTAH 84321

KENI ALTHOUSE, PLA

- a. UNAVAILABILITY. b. REGULATORY CHANGES.
- 2. SUBSTITUTIONS FOR CONVENIENCE: PROPOSED DUE TO POSSIBILITY OF OFFERING
- SUBSTANTIAL ADVANTAGE TO THE PROJECT.
- a. SUBSTITUTION REQUESTS OFFERING ADVANTAGES SOLELY TO THE CONTRACTOR WILL NOT BE CONSIDERED.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION

3.01 GENERAL REQUIREMENTS

- A. A SUBSTITUTION REQUEST FOR PRODUCTS, ASSEMBLIES, MATERIALS, AND EQUIPMENT CONSTITUTES A REPRESENTATION THAT THE SUBMITTER:
- 1. HAS INVESTIGATED PROPOSED PRODUCT AND DETERMINED THAT IT MEETS OR EXCEEDS THE QUALITY LEVEL OF THE SPECIFIED PRODUCT, EQUIPMENT, ASSEMBLY, OR SYSTEM.
- 2. AGREES TO PROVIDE THE SAME WARRANTY FOR THE SUBSTITUTION AS FOR THE
- SPECIFIED PRODUCT. 3. AGREES TO PROVIDE SAME OR EQUIVALENT MAINTENANCE SERVICE AND SOURCE OF
- REPLACEMENT PARTS, AS APPLICABLE. 4. AGREES TO COORDINATE INSTALLATION AND MAKE CHANGES TO OTHER WORK THAT
- MAY BE REQUIRED FOR THE WORK TO BE COMPLETE, WITH NO ADDITIONAL COST TO
- 5. WAIVES CLAIMS FOR ADDITIONAL COSTS OR TIME EXTENSION THAT MAY SUBSEQUENTLY BECOME APPARENT.
- 6. AGREES TO REIMBURSE OWNER AND ARCHITECT FOR REVIEW OR REDESIGN SERVICES ASSOCIATED WITH RE-APPROVAL BY AUTHORITIES. B. A SUBSTITUTION REQUEST FOR SPECIFIED INSTALLER CONSTITUTES A REPRESENTATION
- THAT THE SUBMITTER:
- 1. HAS ACTED IN GOOD FAITH TO OBTAIN SERVICES OF SPECIFIED INSTALLER, BUT WAS UNABLE TO COME TO COMMERCIAL, OR OTHER TERMS. C. DOCUMENT EACH REQUEST WITH COMPLETE DATA SUBSTANTIATING COMPLIANCE OF
- PROPOSED SUBSTITUTION WITH CONTRACT DOCUMENTS. BURDEN OF PROOF IS ON
- D. CONTENT: INCLUDE INFORMATION NECESSARY FOR TRACKING THE STATUS OF EACH SUBSTITUTION REQUEST, AND INFORMATION NECESSARY TO PROVIDE AN ACTIONABLE
- 1. NO SPECIFIC FORM IS REQUIRED. CONTRACTOR'S SUBSTITUTION REQUEST
- DOCUMENTATION MUST INCLUDE THE FOLLOWING: a. PROJECT INFORMATION:
- 1) OFFICIAL PROJECT NAME AND NUMBER, AND ANY ADDITIONAL REQUIRED
- IDENTIFIERS ESTABLISHED IN CONTRACT DOCUMENTS.
- b. SUBSTITUTION REQUEST INFORMATION: 1) DISCRETE AND CONSECUTIVE SUBSTITUTION REQUEST NUMBER, AND DESCRIPTIVE
- SUBJECT/TITLE. 2) INDICATION OF WHETHER THE SUBSTITUTION IS FOR CAUSE OR CONVENIENCE.
- 3) ISSUE DATE.
- 4) DESCRIPTION OF SUBSTITUTION. 5) REASON WHY THE SPECIFIED ITEM CANNOT BE PROVIDED.
- 6) DIFFERENCES BETWEEN PROPOSED SUBSTITUTION AND SPECIFIED ITEM
- 7) DESCRIPTION OF HOW PROPOSED SUBSTITUTION AFFECTS OTHER PARTS OF
- c. ATTACHED COMPARATIVE DATA: PROVIDE POINT-BY-POINT, SIDE-BY-SIDE COMPARISON ADDRESSING ESSENTIAL ATTRIBUTES SPECIFIED, AS APPROPRIATE AND
- RELEVANT FOR THE ITEM: 1) PHYSICAL CHARACTERISTICS.
- IN-SERVICE PERFORMANCE.
- EXPECTED DURABILITY.
- 4) VISUAL EFFECT.
- 5) WARRANTIES.
- 6) OTHER SALIENT FEATURES AND REQUIREMENTS.
- 7) INCLUDE, AS APPROPRIATE OR REQUESTED, THE FOLLOWING TYPES OF DOCUMENTATION:
- (a) PRODUCT DATA:
- (b) SAMPLES. (c) CERTIFICATES, TEST, REPORTS OR SIMILAR QUALIFICATION DATA.
- d. IMPACT OF SUBSTITUTION:
- SAVINGS TO OWNER FOR ACCEPTING SUBSTITUTION.
- 2) CHANGE TO CONTRACT TIME DUE TO ACCEPTING SUBSTITUTION.
- E. LIMIT EACH REQUEST TO A SINGLE PROPOSED SUBSTITUTION ITEM.

1. SUBMIT AN ELECTRONIC DOCUMENT, COMBINING THE REQUEST FORM WITH SUPPORTING

- SUBMIT REQUEST FOR SUBSTITUTION FOR CONVENIENCE IMMEDIATELY UPON DISCOVERY OF ITS POTENTIAL ADVANTAGE TO THE PROJECT, BUT NOT LATER THAN [7] DAYS PRIOR TO TIME REQUIRED FOR REVIEW AND APPROVAL BY ARCHITECT, IN ORDER TO STAY ON

- A. ARCHITECT WILL CONSIDER REQUESTS FOR SUBSTITUTIONS ONLY WITHIN 15 DAYS AFTER
- B. SUBMIT REQUEST FOR SUBSTITUTION FOR CAUSE WITHIN 14 DAYS OF DISCOVERY OF NEED FOR SUBSTITUTION, BUT NOT LATER THAN 7 DAYS PRIOR TO TIME REQUIRED FOR REVIEW AND APPROVAL BY ARCHITECT, IN ORDER TO STAY ON APPROVED PROJECT SCHEDULE.
- C. SUBMIT REQUEST FOR SUBSTITUTION FOR CONVENIENCE ARE NOT PERMITTED DURING
- D. SUBSTITUTIONS WILL NOT BE CONSIDERED UNDER ONE OR MORE OF THE FOLLOWING
- 1. WHEN THEY ARE INDICATED OR IMPLIED ON SHOP DRAWING OR PRODUCT DATA SUBMITTALS, WITHOUT HAVING RECEIVED PRIOR APPROVAL
- 2. WITHOUT A SEPARATE WRITTEN REQUEST DURING THE BIDDING PERIOD.
- E. FAILURE TO ORDER PRODUCT IN A TIMELY MANNER TO MEET PROJECT TIMELINE REQUIREMENTS, DOES NOT CONSTITUTE JUSTIFICATION FOR A SUBSTITUTION. ANY ADDITIONAL COSTS INCURRED RELATED TO OBTAINING THE SPECIFIED PRODUCT IN A EXPEDITED MANNER, AS A RESULT OF THIS FAILURE, WILL NOT BE APPROVED IN CHANGE ORDERS AND ARE THE RESPONSIBILTY OF THE ORDERING PARTY.

- A. ARCHITECT MAY REQUEST ADDITIONAL INFORMATION AND DOCUMENTATION PRIOR TO RENDERING A DECISION. PROVIDE THIS DATA IN AN EXPEDITIOUS MANNER.
- B. ARCHITECT WILL NOTIFY CONTRACTOR IN WRITING OF DECISION TO ACCEPT OR REJECT REQUEST.
- 1. ARCHITECT'S DECISION FOLLOWING REVIEW OF PROPOSED SUBSTITUTION WILL BE NOTED ON THE SUBMITTED FORM.

3.05 ACCEPTANCE

- A. ACCEPTED SUBSTITUTIONS CHANGE THE WORK OF THE PROJECT. THEY WILL BE DOCUMENTED AND INCORPORATED INTO WORK OF THE PROJECT BY CHANGE ORDER, CONSTRUCTION CHANGE DIRECTIVE, ARCHITECTURAL SUPPLEMENTARY INSTRUCTIONS, OR SIMILAR INSTRUMENTS PROVIDED FOR IN THE CONDITIONS OF THE CONTRACT.
- 3.06 CLOSEOUT ACTIVITIES
- A. SEE SECTION 017800 CLOSEOUT SUBMITTALS, FOR CLOSEOUT SUBMITTALS.

END OF SECTION

SECTION 01 3000 ADMINISTRATIVE REQUIREMENTS

1.01 CONSTRUCTION SCHEDULE

A. THE CONTRACTOR SHALL PREPARE AND SUBMIT TO THE ARCHITECT AND OWNER, A BAR-CHART TYPE PROGRESS SCHEDULE FOR THE ENTIRE PROJECT, WITHIN SEVEN (7) DAYS AFTER AWARD OF CONTRACT. PROVIDE A SEPARATE BAR FOR EACH WORK ITEM LISTED IN THE SCHEDULE OF VALUES. INCLUDE APPROPRIATE TIME FOR PROJECT MOBILIZATION, PROCUREMENT OF PRODUCTS, REVIEW AND RETURN OF SHOP DRAWINGS, INSTALLATION, TESTING, FINAL CLEANUP AND INSTALLATION TIME FOR WORK UNDER SEPARATE CONTRACTS. IDENTIFY EACH CALENDAR DAY THROUGHOUT THE SCHEDULE. HIGHLIGHT CRITICAL PATH ELEMENTS OF THE SCHEDULE THAT ARE IMPORTANT TO COMPLETE THE WORK ON TIME. CORRELATE THE ORGANIZATION OF THE SCHEDULE WITH THE DATE OF SUBSTANTIAL COMPLETION INDICATED IN THE OWNER-CONTRACTOR AGREEMENT.

1.02 PROJECT COORDINATION & ADMINISTRATION

A. COORDINATE THE WORK OF THE COMPLETE PROJECT TO ASSURE AN EFFICIENT AND ORDERLY SEQUENCE OF INSTALLATION OF CONSTRUCTION ELEMENTS, AND FOR INSTALLATION OF ITEMS FURNISHED AND INSTALLED BY OTHERS, WITH PROVISIONS FOR ACCOMMODATING OTHER ITEMS TO BE INSTALLED LATER. UTILIZE SPACE EFFICIENTLY TO MAXIMIZE ACCESSIBILITY FOR OTHER INSTALLATIONS, AND FOR MAINTENANCE.

1.03 PRE-CONSTRUCTION MEETING

A. MEET WITH THE OWNER'S DESIGNATED CONSTRUCTION REPRESENTATIVE BEFORE STARTING CONSTRUCTION. DISCUSS PROCEDURES AND REQUIREMENTS FOR SITE ACCESS. WORK HOURS, PARKING, DELIVERIES AND RECEIVING, DEBRIS AND WASTE RECEPTACLES. TEMPORARY BARRICADES, AND CONSTRUCTION OPERATIONS THAT MAY BE OFFENSIVE.

1.04 MAINTENANCE OF CONSTRUCTION DOCUMENTS

- A. THE CONTRACTOR SHALL MAINTAIN AT THE PROJECT SITE, A "RECORD SET OF CONSTRUCTION DOCUMENTS" AND THE FOLLOWING RELATED DRAWINGS OR DOCUMENTS PREPARED BY OTHERS: SHOP DRAWINGS AND DATA SHEETS PREPARED BY THE MANUFACTURERS, FABRICATORS, AND SUPPLIERS.
- B. DO NOT CONSTRUCT ANY PORTION OF THE WORK RELATED TO THESE DRAWINGS AT ANY TIME WITHOUT SUCH DRAWINGS BEING AVAILABLE AT THE PROJECT SITE.
- C. "AS BUILT" DRAWINGS SHALL BE PROVIDED BY THE CONTRACTOR. DRAWINGS SHALL INDICATE THE SIZE AND DIMENSIONS OF ALL CONCEALED AND UNDERGROUND WORK, AND SHALL INDICATE DEPTH OF MAJOR CONDUIT AND PIPING.

1.05 PERMITS AND LOCAL CODES

A. THE LAWS IN FORCE AT THE BUILDING LOCATION SHALL GOVERN. THESE INCLUDE THE LATEST EDITIONS OF THE INTERNATIONAL BUILDING CODE, INTERNATIONAL MECHANICAL CODE, INTERNATIONAL PLUMBING CODE, NATIONAL ELECTRIC CODE, LIFE SAFETY CODE, ANSI 117.1 AND LOCAL ORDINANCES. THE CONTRACTOR SHALL PROCURE AND PAY FOR ALL NECESSARY BUILDING PERMITS AND FOR INSPECTION SERVICES OF LOCAL AUTHORITIES AND HIS OWN BUSINESS LICENSES. THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS SHALL COMPLY WITH ALL APPLICABLE PROVISIONS OF OCCUPATIONAL SAFETY AND HEALTH STANDARDS, FEDERAL, STATE, COUNTY AND MUNICIPAL LAWS.

PART 2 PRODUCTS - NOT USED

- 3.01 PROGRESS MEETINGS
- A. SCHEDULE AND ADMINISTER MEETINGS THROUGHOUT PROGRESS OF THE WORK AT MAXIMUM BI-WEEKLY INTERVALS.
- B. ATTENDANCE REQUIRED: JOB SUPERINTENDENT, MAJOR SUBCONTRACTORS AND
- SUPPLIERS, OWNER, ARCHITECT, AS APPROPRIATE TO AGENDA TOPICS FOR EACH MEETING. C. RECORD MINUTES AND DISTRIBUTE COPIES WITHIN TWO DAYS AFTER MEETING TO

PARTICIPANTS. 3.02 CONSTRUCTION PROGRESS SCHEDULE

- A. IF PRELIMINARY SCHEDULE REQUIRES REVISION AFTER REVIEW, SUBMIT REVISED SCHEDULE
- B. WITHIN 20 DAYS AFTER REVIEW OF PRELIMINARY SCHEDULE, SUBMIT DRAFT OF PROPOSED COMPLETE SCHEDULE FOR REVIEW.
- 1. INCLUDE WRITTEN CERTIFICATION THAT MAJOR SUBCONTRACTORS HAVE REVIEWED AND ACCEPTED PROPOSED SCHEDULE.
- C. WITHIN 10 DAYS AFTER JOINT REVIEW, SUBMIT COMPLETE SCHEDULE.

D. SUBMIT UPDATED SCHEDULE WITH EACH APPLICATION FOR PAYMENT

3.03 SUBMITTALS FOR REVIEW

- A. WHEN THE FOLLOWING ARE SPECIFIED IN INDIVIDUAL SECTIONS, SUBMIT THEM FOR REVIEW: PRODUCT DATA.
- SHOP DRAWINGS.
- SAMPLES FOR SELECTION.
- 4. SAMPLES FOR VERIFICATION.

B. SUBMIT TO ARCHITECT FOR REVIEW FOR THE LIMITED PURPOSE OF CHECKING FOR CONFORMANCE WITH INFORMATION GIVEN AND THE DESIGN CONCEPT EXPRESSED IN THE

- CONTRACT DOCUMENTS.
- C. SAMPLES WILL BE REVIEWED ONLY FOR AESTHETIC, COLOR, OR FINISH SELECTION. D. AFTER REVIEW, PROVIDE COPIES AND DISTRIBUTE IN ACCORDANCE WITH SUBMITTAL PROCEDURES ARTICLE BELOW AND FOR RECORD DOCUMENTS PURPOSES DESCRIBED IN

SECTION 01 7800 - CLOSEOUT SUBMITTALS.

3.04 SUBMITTALS FOR INFORMATION

- A. WHEN THE FOLLOWING ARE SPECIFIED IN INDIVIDUAL SECTIONS, SUBMIT THEM FOR INFORMATION:
- DESIGN DATA.
- CERTIFICATES. TEST REPORTS.
- INSPECTION REPORTS.
- MANUFACTURER'S INSTRUCTIONS. MANUFACTURER'S FIELD REPORTS.
- 7. OTHER TYPES INDICATED.
- B. SUBMIT FOR ARCHITECT'S KNOWLEDGE AND CONTRACT ADMINISTRATOR OR FOR OWNER.

NO ACTION WILL BE TAKEN. 3.05 SUBMITTALS FOR PROJECT CLOSEOUT

- A. SUBMIT CORRECTION PUNCH LIST FOR SUBSTANTIAL COMPLETION.
- B. SUBMIT FINAL CORRECTION PUNCH LIST FOR SUBSTANTIAL COMPLETION. C. WHEN THE FOLLOWING ARE SPECIFIED IN INDIVIDUAL SECTIONS, SUBMIT THEM AT PROJECT
- CLOSEOUT: PROJECT RECORD DOCUMENTS.
- OPERATION AND MAINTENANCE DATA.
- WARRANTIES.
- BONDS. OTHER TYPES AS INDICATED.
- D. SUBMIT FOR OWNER'S BENEFIT DURING AND AFTER PROJECT COMPLETION.

3.06 NUMBER OF COPIES OF SUBMITTALS

- A. DOCUMENTS FOR REVIEW AND INFORMATION: ELECTRONIC COPIES ARE ACCEPTABLE AND
- A. SAMPLES: SUBMIT THE NUMBER SPECIFIED IN INDIVIDUAL SPECIFICATION SECTIONS; ONE OF WHICH WILL BE RETAINED BY ARCHITECT.
- 1. RETAINED SAMPLES WILL NOT BE RETURNED TO CONTRACTOR UNLESS SPECIFICALLY SO

3.07 SUBMITTAL PROCEDURES

- A. SHOP DRAWING PROCEDURES:
- 1. PREPARE ACCURATE, DRAWN-TO-SCALE, ORIGINAL SHOP DRAWING DOCUMENTATION BY INTERPRETING THE CONTRACT DOCUMENTS AND COORDINATING RELATED WORK.
- 2. GENERIC, NON-PROJECT SPECIFIC INFORMATION SUBMITTED AS SHOP DRAWINGS DO NOT MEET THE REQUIREMENTS FOR SHOP DRAWINGS.
- B. SEQUENTIALLY NUMBER THE TRANSMITTAL FORM. REVISE SUBMITTALS WITH ORIGINAL NUMBER AND A SEQUENTIAL ALPHABETIC SUFFIX.
- C. IDENTIFY PROJECT, CONTRACTOR, SUBCONTRACTOR OR SUPPLIER; PERTINENT DRAWING AND DETAIL NUMBER, AND SPECIFICATION SECTION NUMBER, AS APPROPRIATE ON EACH
- D. APPLY CONTRACTOR'S STAMP, SIGNED OR INITIALED CERTIFYING THAT REVIEW, APPROVAL, VERIFICATION OF PRODUCTS REQUIRED, FIELD DIMENSIONS, ADJACENT CONSTRUCTION WORK, AND COORDINATION OF INFORMATION IS IN ACCORDANCE WITH THE REQUIREMENTS OF THE WORK AND CONTRACT DOCUMENTS
- E. FOR EACH SUBMITTAL FOR REVIEW, ALLOW 15 DAYS EXCLUDING DELIVERY TIME TO AND FROM THE CONTRACTOR.
- LIMITATIONS THAT MAY BE DETRIMENTAL TO SUCCESSFUL PERFORMANCE OF THE COMPLETED WORK.

F. IDENTIFY VARIATIONS FROM CONTRACT DOCUMENTS AND PRODUCT OR SYSTEM

- H. WHEN REVISED FOR RESUBMISSION, IDENTIFY ALL CHANGES MADE SINCE PREVIOUS I. DISTRIBUTE REVIEWED SUBMITTALS AS APPROPRIATE. INSTRUCT PARTIES TO PROMPTLY
- REPORT ANY INABILITY TO COMPLY WITH REQUIREMENTS. J. SUBMITTALS NOT REQUESTED WILL NOT BE RECOGNIZED OR PROCESSED.

G. PROVIDE SPACE FOR CONTRACTOR AND ARCHITECT REVIEW STAMPS.

END OF SECTION

SECTION 01 4000

QUALITY REQUIREMENTS

- PART 1 GENERAL 1.01 SUBMITTALS
- A. TESTING AGENCY QUALIFICATIONS:
- PRIOR TO START OF WORK, SUBMIT AGENCY NAME, ADDRESS, AND TELEPHONE NUMBER, AND NAMES OF FULL TIME REGISTERED ENGINEER AND RESPONSIBLE OFFICER.

B. TEST REPORTS: AFTER EACH TEST/INSPECTION. PROMPTLY SUBMIT TWO COPIES OF REPORT

- TO ARCHITECT AND TO CONTRACTOR. C. CERTIFICATES: WHEN SPECIFIED IN INDIVIDUAL SPECIFICATION SECTIONS, SUBMIT CERTIFICATION BY THE MANUFACTURER AND CONTRACTOR OR INSTALLATION/APPLICATION
- SUBCONTRACTOR TO ARCHITECT, IN QUANTITIES SPECIFIED FOR PRODUCT DATA. 1. INDICATE MATERIAL OR PRODUCT CONFORMS TO OR EXCEEDS SPECIFIED REQUIREMENTS. SUBMIT SUPPORTING REFERENCE DATA, AFFIDAVITS, AND

PART 2 PRODUCTS - NOT USED

CERTIFICATIONS AS APPROPRIATE.

PART 3 EXECUTION

REQUEST CLARIFICATION FROM ARCHITECT BEFORE PROCEEDING.

- 3.01 CONTROL OF INSTALLATION
- A. MONITOR QUALITY CONTROL OVER SUPPLIERS, MANUFACTURERS, PRODUCTS, SERVICES, SITE CONDITIONS, AND WORKMANSHIP, TO PRODUCE WORK OF SPECIFIED QUALITY.
- B. COMPLY WITH MANUFACTURERS' INSTRUCTIONS, INCLUDING EACH STEP IN SEQUENCE. C. SHOULD MANUFACTURERS' INSTRUCTIONS CONFLICT WITH CONTRACT DOCUMENTS,
- D. COMPLY WITH SPECIFIED STANDARDS AS MINIMUM QUALITY FOR THE WORK EXCEPT WHERE MORE STRINGENT TOLERANCES, CODES, OR SPECIFIED REQUIREMENTS INDICATE HIGHER
- STANDARDS OR MORE PRECISE WORKMANSHIP. E. HAVE WORK PERFORMED BY PERSONS QUALIFIED TO PRODUCE REQUIRED AND SPECIFIED
- F. VERIFY THAT FIELD MEASUREMENTS ARE AS INDICATED ON SHOP DRAWINGS OR AS INSTRUCTED BY THE MANUFACTURER. G. SECURE PRODUCTS IN PLACE WITH POSITIVE ANCHORAGE DEVICES DESIGNED AND SIZED TO

WITHSTAND STRESSES, VIBRATION, PHYSICAL DISTORTION, AND DISFIGUREMENT.

- 3.02 DEFECT ASSESSMENT A. REPLACE WORK OR PORTIONS OF THE WORK NOT CONFORMING TO SPECIFIED
- B. IF. IN THE OPINION OF THE ARCHITECT. IT IS NOT PRACTICAL TO REMOVE AND REPLACE THE WORK, ARCHITECT WILL DIRECT AN APPROPRIATE REMEDY OR ADJUST PAYMENT.

END OF SECTION

SECTION 01 6000 PRODUCT REQUIREMENTS

PART 1 GENERAL

1.01 SUBMITTALS

- A. PRODUCT DATA SUBMITTALS: SUBMIT MANUFACTURER'S STANDARD PUBLISHED DATA. MARK EACH COPY TO IDENTIFY APPLICABLE PRODUCTS, MODELS, OPTIONS, AND OTHER DATA. SUPPLEMENT MANUFACTURERS' STANDARD DATA TO PROVIDE INFORMATION
- SPECIFIC TO THIS PROJECT. B. SAMPLE SUBMITTALS: ILLUSTRATE FUNCTIONAL AND AESTHETIC CHARACTERISTICS OF THE PRODUCT, WITH INTEGRAL PARTS AND ATTACHMENT DEVICES. COORDINATE SAMPLE SUBMITTALS FOR INTERFACING WORK.

PART 2 PRODUCTS

- 2.01 NEW PRODUCTS
- A. PROVIDE NEW PRODUCTS UNLESS SPECIFICALLY REQUIRED OR PERMITTED BY THE CONTRACT DOCUMENTS.

2.02 PRODUCT OPTIONS

- A. PRODUCTS SPECIFIED BY REFERENCE STANDARDS OR BY DESCRIPTION ONLY: USE ANY PRODUCT MEETING THOSE STANDARDS OR DESCRIPTION.
- B. PRODUCTS SPECIFIED BY NAMING ONE OR MORE MANUFACTURERS: USE A PRODUCT OF ONE OF THE MANUFACTURERS NAMED AND MEETING SPECIFICATIONS, NO OPTIONS OR
- SUBSTITUTIONS ALLOWED. C. PRODUCTS SPECIFIED BY NAMING ONE OR MORE MANUFACTURERS WITH A PROVISION FOR SUBSTITUTIONS: SUBMIT A REQUEST FOR SUBSTITUTION FOR ANY MANUFACTURER NOT

PART 3 EXECUTION 3.01 SUBSTITUTION PROCEDURES

- A. SUBSTITUTION REQUESTS MUST BE SUBMITTED DURING THE BID PERIOD. BID QUESTIONS AND SUBSTITUTION REQUESTS WILL BE ADDRESSED BY THE ARCHITECT AND APPROVED BY OWNER UNTIL 72 HOURS PRIOR TO THE BID DATE PUBLISHED BY THE CONSTRUCTION
- B. DOCUMENT EACH REQUEST WITH COMPLETE DATA SUBSTANTIATING COMPLIANCE OF
- PROPOSED SUBSTITUTION WITH CONTRACT DOCUMENTS. C. A REQUEST FOR SUBSTITUTION CONSTITUTES A REPRESENTATION THAT THE SUBMITTER:
- THE QUALITY LEVEL OF THE SPECIFIED PRODUCT. 2. WILL PROVIDE THE SAME WARRANTY FOR THE SUBSTITUTION AS FOR THE SPECIFIED

1. HAS INVESTIGATED PROPOSED PRODUCT AND DETERMINED THAT IT MEETS OR EXCEEDS

3. WILL COORDINATE INSTALLATION AND MAKE CHANGES TO OTHER WORK THAT MAY BE REQUIRED FOR THE WORK TO BE COMPLETE WITH NO ADDITIONAL COST TO OWNER. 4. WAIVES CLAIMS FOR ADDITIONAL COSTS OR TIME EXTENSION THAT MAY SUBSEQUENTLY

BECOME APPARENT.

- D. SUBSTITUTION SUBMITTAL PROCEDURE: 1. SUBMIT THREE COPIES OF REQUEST FOR SUBSTITUTION FOR CONSIDERATION. LIMIT EACH REQUEST TO ONE PROPOSED SUBSTITUTION.
- 2. SUBMIT SHOP DRAWINGS, PRODUCT DATA, AND CERTIFIED TEST RESULTS ATTESTING TO THE PROPOSED PRODUCT EQUIVALENCE. BURDEN OF PROOF IS ON PROPOSER.

3. THE ARCHITECT WILL NOTIFY CONTRACTOR BY ADDENDUM OF DECISION TO ACCEPT. END OF SECTION

1.01 PROJECT CONDITIONS A. GRADE SITE TO DRAIN. MAINTAIN EXCAVATIONS FREE OF WATER. PROVIDE, OPERATE, AND

SECTION 01 7000

EXECUTION AND CLOSEOUT REQUIREMENTS

- MAINTAIN PUMPING EQUIPMENT. B. DUST CONTROL: EXECUTE WORK BY METHODS TO MINIMIZE RAISING DUST FROM CONSTRUCTION OPERATIONS. PROVIDE POSITIVE MEANS TO PREVENT AIR-BORNE DUST
- FROM DISPERSING INTO ATMOSPHERE AND OVER ADJACENT PROPERTY. C. EROSION AND SEDIMENT CONTROL: PLAN AND EXECUTE WORK BY METHODS TO CONTROL SURFACE DRAINAGE FROM CUTS AND FILLS, FROM BORROW AND WASTE DISPOSAL AREAS. PREVENT EROSION AND SEDIMENTATION.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION

- 3.01 GENERAL INSTALLATION REQUIREMENTS A. INSTALL PRODUCTS AS SPECIFIED IN INDIVIDUAL SECTIONS. IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS, AND SO AS TO AVOID WASTE
- DUE TO NECESSITY FOR REPLACEMENT. B. MAKE VERTICAL ELEMENTS PLUMB AND HORIZONTAL ELEMENTS LEVEL, UNLESS OTHERWISE INDICATED.
- C. INSTALL EQUIPMENT AND FITTINGS PLUMB AND LEVEL, NEATLY ALIGNED WITH ADJACENT VERTICAL AND HORIZONTAL LINES, UNLESS OTHERWISE INDICATED. D. MAKE CONSISTENT TEXTURE ON SURFACES, WITH SEAMLESS TRANSITIONS, UNLESS OTHERWISE INDICATED.

E. MAKE NEAT TRANSITIONS BETWEEN DIFFERENT SURFACES, MAINTAINING TEXTURE AND

- APPEARANCE. 3.02 PROGRESS CLEANING
- A. MAINTAIN AREAS FREE OF WASTE MATERIALS, DEBRIS, AND RUBBISH. MAINTAIN SITE IN A CLEAN AND ORDERLY CONDITION.
- 3.03 PROTECTION OF INSTALLED WORK
- A. PROTECT INSTALLED WORK FROM DAMAGE BY CONSTRUCTION OPERATIONS. B. PROVIDE SPECIAL PROTECTION WHERE SPECIFIED IN INDIVIDUAL SPECIFICATION SECTIONS.

C. REMOVE PROTECTIVE COVERINGS WHEN NO LONGER NEEDED; REUSE OR RECYCLE PLASTIC

- COVERINGS IF POSSIBLE. 3.04 FINAL CLEANING
- A. USE CLEANING MATERIALS THAT ARE NON-HAZARDOUS. B. CLEAN INTERIOR AND EXTERIOR GLASS, SURFACES EXPOSED TO VIEW; REMOVE TEMPORARY LABELS, STAINS AND FOREIGN SUBSTANCES, POLISH TRANSPARENT AND
- GLOSSY SURFACES, VACUUM CARPETED AND SOFT SURFACES. C. REMOVE ALL LABELS THAT ARE NOT PERMANENT. DO NOT PAINT OR OTHERWISE COVER FIRE
- TEST LABELS OR NAMEPLATES ON MECHANICAL AND ELECTRICAL EQUIPMENT. D. CLEAN EQUIPMENT AND FIXTURES TO A SANITARY CONDITION WITH CLEANING MATERIALS

APPROPRIATE TO THE SURFACE AND MATERIAL BEING CLEANED.

3.05 CLOSEOUT PROCEDURES A. MAKE SUBMITTALS THAT ARE REQUIRED BY GOVERNING OR OTHER AUTHORITIES.

ARCHITECT'S SUBSTANTIAL COMPLETION INSPECTION.

OF SUBSTANTIAL COMPLETION.

- B. NOTIFY ARCHITECT WHEN WORK IS CONSIDERED READY FOR SUBSTANTIAL COMPLETION. C. SUBMIT WRITTEN CERTIFICATION CONTAINING CONTRACTOR'S CORRECTION PUNCH LIST, THAT CONTRACT DOCUMENTS HAVE BEEN REVIEWED, WORK HAS BEEN INSPECTED, AND THAT WORK IS COMPLETE IN ACCORDANCE WITH CONTRACT DOCUMENTS AND READY FOR
- D. NOTIFY ARCHITECT WHEN WORK IS CONSIDERED FINALLY COMPLETE AND READY FOR ARCHITECT'S SUBSTANTIAL COMPLETION FINAL INSPECTION.

END OF SECTION

E. COMPLETE ITEMS OF WORK DETERMINED BY ARCHITECT LISTED IN EXECUTED CERTIFICATE

SECTION 01 7800

CLOSEOUT SUBMITTALS

PART 1 GENERAL

1.01 SUBMITTALS

- A. PROJECT RECORD DOCUMENTS: SUBMIT DOCUMENTS TO ARCHITECT FOR FINAL IMPLEMENTATION OF CHANGES DURING THE CONSTRUCTION PROCESS TO CREATE "RECORD"
- OR "AS-BUILT" DOCUMENTS AS THEY ARE COMMONLY KNOWN.
- B. OPERATION AND MAINTENANCE DATA

WITHIN 10 DAYS AFTER ACCEPTANCE.

C. WARRANTIES AND BONDS: FOR EQUIPMENT OR COMPONENT PARTS OF EQUIPMENT PUT INTO SERVICE DURING CONSTRUCTION WITH OWNER'S PERMISSION, SUBMIT DOCUMENTS

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION

3.01 PROJECT RECORD DOCUMENTS

- A. MAINTAIN ON SITE ONE SET OF THE FOLLOWING RECORD DOCUMENTS; RECORD ACTUAL
- REVISIONS TO THE WORK:

DRAWINGS.

- ADDENDA.
- 3. CHANGE ORDERS AND OTHER MODIFICATIONS TO THE CONTRACT 3.02 OPERATION AND MAINTENANCE DATA
- NUMBERS OF SUBCONTRACTORS AND SUPPLIERS, INCLUDING LOCAL SOURCE OF SUPPLIES AND REPLACEMENT PARTS.

A. SOURCE DATA: FOR EACH PRODUCT OR SYSTEM, LIST NAMES, ADDRESSES AND TELEPHONE

B. PRODUCT DATA: MARK EACH SHEET TO CLEARLY IDENTIFY SPECIFIC PRODUCTS AND COMPONENT PARTS, AND DATA APPLICABLE TO INSTALLATION. DELETE INAPPLICABLE INFORMATION.

C. DRAWINGS: SUPPLEMENT PRODUCT DATA TO ILLUSTRATE RELATIONS OF COMPONENT

USE PROJECT RECORD DOCUMENTS AS MAINTENANCE DRAWINGS.

3.03 WARRANTIES AND BONDS A. OBTAIN WARRANTIES AND BONDS, EXECUTED IN DUPLICATE BY RESPONSIBLE SUBCONTRACTORS, SUPPLIERS, AND MANUFACTURERS, WITHIN 10 DAYS AFTER COMPLETION OF THE APPLICABLE ITEM OF WORK. EXCEPT FOR ITEMS PUT INTO USE WITH

PARTS OF EQUIPMENT AND SYSTEMS, TO SHOW CONTROL AND FLOW DIAGRAMS. DO NOT

OF SUBSTANTIAL COMPLETION IS DETERMINED. **END OF SECTION**

OWNER'S PERMISSION, LEAVE DATE OF BEGINNING OF TIME OF WARRANTY UNTIL THE DATE

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GENERAL

823278 PROJECT #: J. CLEMENTS

CHECKED BY:

PART 1 GENERAL

1.01 RELATED DOCUMENTS A. DRAWINGS AND GENERAL PROVISIONS OF THE CONTRACT, INCLUDING GENERAL AND SUPPLEMENTARY CONDITIONS AND OTHER DIVISION 01 SPECIFICATION SECTIONS, APPLY TO

THIS SECTION. 1.02 SECTION INCLUDES

- A. DEMOLITION AND REMOVAL OF SELECTED SITE ELEMENTS.
- B. SALVAGE OF EXISTING ITEMS TO BE REUSED OR RECYCLED.

1.03 RELATED SECTIONS

A. DIVISION 31 2300 "EARTHWORK" FOR SITE CLEARING AND REMOVAL OF ABOVE- AND BELOW-GRADE IMPROVEMENTS.

1.04 DEFINITIONS

- A. REMOVE: DETACH ITEMS FROM EXISTING CONSTRUCTION AND LEGALLY DISPOSE OF THEM OFF-SITE, UNLESS INDICATED TO BE REMOVED AND SALVAGED OR REMOVED AND
- B. REMOVE AND SALVAGE: DETACH ITEMS FROM EXISTING CONSTRUCTION AND DELIVER THEM TO OWNER READY FOR REUSE.
- C. REMOVE AND REINSTALL: DETACH ITEMS FROM EXISTING CONSTRUCTION, PREPARE THEM FOR REUSE, AND REINSTALL THEM WHERE INDICATED.
- D. EXISTING TO REMAIN: EXISTING ITEMS OF CONSTRUCTION THAT ARE NOT TO BE REMOVED AND THAT ARE NOT OTHERWISE INDICATED TO BE REMOVED, REMOVED AND SALVAGED, OR REMOVED AND REINSTALLED.

1.05 SUBMITTALS

- A. QUALIFICATION DATA: FOR DEMOLITION FIRM.
- B. SCHEDULE OF SELECTIVE DEMOLITION ACTIVITIES: INDICATE THE FOLLOWING:
- 1. DETAILED SEQUENCE OF SELECTIVE DEMOLITION AND REMOVAL WORK, WITH STARTING AND ENDING DATES FOR EACH ACTIVITY. ENSURE OWNER'S OTHER TENANTS' ON-SITE OPERATIONS ARE UNINTERRUPTED.
- 2. INTERRUPTION OF UTILITY SERVICES. INDICATE HOW LONG UTILITY SERVICES WILL BE INTERRUPTED.
- 3. COORDINATION FOR SHUTOFF, CAPPING, AND CONTINUATION OF UTILITY SERVICES.
- 4. LOCATIONS OF PROPOSED DUST AND NOISE CONTROL, TEMPORARY PARTITIONS AND MEANS OF EGRESS, INCLUDING FOR OTHER TENANTS AFFECTED BY SELECTIVE DEMOLITION OPERATIONS.
- 5. COORDINATION OF OWNER'S CONTINUING OCCUPANCY OF PORTIONS OF EXISTING SITE
- AND OF OWNER'S PARTIAL OCCUPANCY OF COMPLETED WORK. 6. MEANS OF PROTECTION FOR ITEMS TO REMAIN AND ITEMS IN PATH OF WASTE REMOVAL
- C. INVENTORY: AFTER SELECTIVE DEMOLITION IS COMPLETE, SUBMIT A LIST OF ITEMS THAT HAVE BEEN REMOVED AND SALVAGED.
- D. PREDEMOLITION PHOTOGRAPHS OR VIDEOTAPES: SHOW EXISTING CONDITIONS OF ADJOINING CONSTRUCTION AND SITE IMPROVEMENTS, INCLUDING FINISH SURFACES, THAT MIGHT BE MISCONSTRUED AS DAMAGE CAUSED BY SELECTIVE DEMOLITION OPERATIONS.
- E. LANDFILL RECORDS: INDICATE RECEIPT AND ACCEPTANCE OF HAZARDOUS WASTES BY A LANDFILL FACILITY LICENSED TO ACCEPT HAZARDOUS WASTES.

1.06 QUALITY ASSURANCE

- A. DEMOLITION FIRM QUALIFICATIONS: AN EXPERIENCED FIRM THAT HAS SPECIALIZED IN DEMOLITION WORK SIMILAR IN MATERIAL AND EXTENT TO THAT INDICATED FOR THIS
- B. REGULATORY REQUIREMENTS: COMPLY WITH GOVERNING EPA NOTIFICATION REGULATIONS BEFORE BEGINNING SELECTIVE DEMOLITION. COMPLY WITH HAULING AND DISPOSAL REGULATIONS OF AUTHORITIES HAVING JURISDICTION.
- C. STANDARDS: COMPLY WITH ANSI A10.6 AND NFPA 241
- D. PREDEMOLITION CONFERENCE: CONDUCT CONFERENCE AT PROJECT SITE. REVIEW METHODS AND PROCEDURES RELATED TO SELECTIVE DEMOLITION INCLUDING, BUT NOT LIMITED TO,
- INSPECT AND DISCUSS CONDITION OF CONSTRUCTION TO BE SELECTIVELY DEMOLISHED. 2. REVIEW AND FINALIZE SELECTIVE DEMOLITION AND VERIFY AVAILABILITY OF MATERIALS, DEMOLITION PERSONNEL, EQUIPMENT, AND FACILITIES NEEDED TO MAKE PROGRESS AND

3. REVIEW REQUIREMENTS OF WORK PERFORMED BY OTHER TRADES THAT RELY ON

- SUBSTRATES EXPOSED BY SELECTIVE DEMOLITION OPERATIONS.
- 4. REVIEW AREAS WHERE EXISTING CONSTRUCTION IS TO REMAIN AND REQUIRES PROTECTION.

1.07 PROJECT CONDITIONS

- A. CONDITIONS EXISTING AT TIME OF INSPECTION FOR BIDDING PURPOSE WILL BE MAINTAINED BY OWNER AS FAR AS PRACTICAL.
- 1. BEFORE SELECTIVE DEMOLITION, OWNER WILL REMOVE THE ITEMS TO BE SALVAGED BY THE OWNER. COORDINATE OTHER ITEMS WITH THE ARCHITECT.
- B. NOTIFY ARCHITECT OF DISCREPANCIES BETWEEN EXISTING CONDITIONS AND DRAWINGS BEFORE PROCEEDING WITH SELECTIVE DEMOLITION.
- C. HAZARDOUS MATERIALS: IT IS NOT EXPECTED THAT HAZARDOUS MATERIALS WILL BE ENCOUNTERED IN THE WORK.
- 1. HAZARDOUS MATERIALS WILL BE REMOVED BY OWNER BEFORE START OF THE WORK OR
- HAVE BEEN REMOVED BY OWNER UNDER A SEPARATE CONTRACT.
- 2. IF MATERIALS SUSPECTED OF CONTAINING HAZARDOUS MATERIALS ARE ENCOUNTERED, DO NOT DISTURB; IMMEDIATELY NOTIFY ARCHITECT AND OWNER. OWNER WILL REMOVE HAZARDOUS MATERIALS UNDER A SEPARATE CONTRACT.
- D. STORAGE OR SALE OF REMOVED ITEMS OR MATERIALS ON-SITE IS NOT PERMITTED.
- E. UTILITY SERVICE: MAINTAIN EXISTING UTILITIES INDICATED TO REMAIN IN SERVICE AND PROTECT THEM AGAINST DAMAGE DURING SELECTIVE DEMOLITION OPERATIONS.
- 1. MAINTAIN FIRE-PROTECTION FACILITIES IN SERVICE DURING SELECTIVE DEMOLITION

OPERATIONS. 1.08 WARRANTY

A. EXISTING WARRANTIES: REMOVE, REPLACE, PATCH, AND REPAIR MATERIALS AND SURFACES CUT OR DAMAGED DURING SELECTIVE DEMOLITION, BY METHODS AND WITH MATERIALS SO AS NOT TO VOID EXISTING WARRANTIES.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION 3.01 EXAMINATION

- A. VERIFY THAT UTILITIES HAVE BEEN SHUT OFF AND READY TO BE CAPPED.
- B. SURVEY EXISTING CONDITIONS AND CORRELATE WITH REQUIREMENTS INDICATED TO DETERMINE EXTENT OF SELECTIVE DEMOLITION REQUIRED.
- C. INVENTORY AND RECORD THE CONDITION OF ITEMS TO BE REMOVED AND REINSTALLED AND ITEMS TO BE REMOVED AND SALVAGED.
- D. SURVEY OF EXISTING CONDITIONS: RECORD EXISTING CONDITIONS BY USE OF MEASURED DRAWINGS, PRECONSTRUCTION PHOTOGRAPHS, PRECONSTRUCTION VIDEOTAPES, AND TEMPLATES.
- E. PERFORM SURVEYS AS THE WORK PROGRESSES TO DETECT HAZARDS RESULTING FROM SELECTIVE DEMOLITION ACTIVITIES.

3.02 UTILITY SERVICES

- A. EXISTING SERVICES/SYSTEMS: MAINTAIN SERVICES/SYSTEMS INDICATED TO REMAIN AND PROTECT THEM AGAINST DAMAGE DURING SELECTIVE DEMOLITION OPERATIONS.
- A. SERVICE/SYSTEM REQUIREMENTS: LOCATE, IDENTIFY, DISCONNECT, AND SEAL OR CAP OFF INDICATED UTILITY SERVICES AND OTHER SYSTEMS SERVING AREAS TO BE SELECTIVELY
- 1. OWNER WILL ARRANGE TO SHUT OFF INDICATED SERVICES/SYSTEMS WHEN REQUESTED BY CONTRACTOR.
- 2. ARRANGE TO SHUT OFF INDICATED UTILITIES WITH THE OWNER.
- 3. IF SERVICES/SYSTEMS ARE REQUIRED TO BE REMOVED, RELOCATED, OR ABANDONED, BEFORE PROCEEDING WITH SELECTIVE DEMOLITION PROVIDE TEMPORARY SERVICES/SYSTEMS THAT BYPASS AREA OF SELECTIVE DEMOLITION AND THAT MAINTAIN

CONTINUITY OF SERVICES/SYSTEMS. 3.03 PREPARATION

A. SITE ACCESS AND TEMPORARY CONTROLS: CONDUCT SELECTIVE DEMOLITION AND DEBRIS-REMOVAL OPERATIONS TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, WALKS, WALKWAYS, AND OTHER ADJACENT OCCUPIED AND USED FACILITIES.

- B. TEMPORARY FACILITIES: PROVIDE TEMPORARY BARRICADES AND OTHER PROTECTION REQUIRED TO PREVENT INJURY TO PEOPLE AND DAMAGE TO ADJACENT BUILDINGS AND FACILITIES TO REMAIN.
- 1. PROVIDE PROTECTION TO ENSURE SAFE PASSAGE OF PEOPLE AROUND SELECTIVE
- DEMOLITION AREA AND TO AND FROM OCCUPIED PORTIONS OF THE SITE. 2. PROVIDE TEMPORARY WEATHER PROTECTION, DURING INTERVAL BETWEEN SELECTIVE DEMOLITION OF EXISTING CONSTRUCTION ON EXTERIOR SURFACES, TO PREVENT WATER DAMAGE TO CRITICAL AREAS.
- C. TEMPORARY SHORING: PROVIDE AND MAINTAIN SHORING, BRACING, AND STRUCTURAL SUPPORTS AS REQUIRED TO PRESERVE STABILITY AND PREVENT MOVEMENT, SETTLEMENT, OR COLLAPSE OF CONSTRUCTION AND ITEMS TO REMAIN, AND TO PREVENT UNEXPECTED OR UNCONTROLLED MOVEMENT OR COLLAPSE OF CONSTRUCTION BEING DEMOLISHED.
- SELECTIVE DEMOLITION. D. NO CLEARING. DEMOLITION. OR REMOVAL OF ANY KIND SHALL PROCEED UNTIL ALL EXISTING TREES, IMPROVEMENTS, ETC. TO BE REMOVED HAVE BEEN ESTABLISHED AND ARE
- INSPECTED AND DOCUMENTED BY THE OWNER. E. ESTABLISH NECESSARY CLEARING LIMITS WITHIN THE CONSTRUCTION LIMITS. MARK ALL TREES, SHRUBS, STRUCTURES, FENCES, CONCRETE, AND OTHER IMPROVEMENTS TO BE

1. STRENGTHEN OR ADD NEW SUPPORTS WHEN REQUIRED DURING PROGRESS OF

- F. WITHIN 10 FEET OF CLEARING LIMITS, INSPECT, PHOTOGRAPH WITH VIDEO TAPE, AND RECORD CONDITION OF CONCRETE SLABS, STRUCTURES, LANDSCAPING AND OTHER FEATURES TO REMAIN WHICH MIGHT BE AFFECTED BY WORK. ALLOW OWNER TO VIEW TAPE AND APPROVE PRIOR TO PROCEEDING WITH THE WORK.
- G. TREES, SHRUBS AND LAWN, AREAS TO RECEIVE PLANTING, FENCES, SPRINKLERS AND OTHER IMPROVEMENTS THAT ARE NOT TO BE REMOVED SHALL BE PROTECTED FROM DAMAGE OR INJURY. IF DAMAGED OR REMOVED, THEY SHALL BE RESTORED OR REPLACED IN AS NEARLY THE ORIGINAL CONDITION AND LOCATION AS IS REASONABLY POSSIBLE. TREES, SHRUBS, AND IMPROVEMENTS NOT TO BE REMOVED SHALL BE MARKED IN FIELD BY OWNER AND/OR SHOWN ON THE DRAWINGS.
- H. GIVE REASONABLE NOTICE TO OWNER TO PERMIT HIM TO SALVAGE PLANTS, TREES, FENCES, SPRINKLERS AND OTHER IMPROVEMENTS WITHIN THE CONSTRUCTION LIMITS THAT MAY BE DESTROYED BECAUSE OF THE WORK.
- I. NOTIFY INTERESTED UTILITY COMPANIES TO BE PRESENT IF DISTURBING GROUND IN THE VICINITY OF UTILITIES.
- J. PROTECT ACTIVE UTILITY SYSTEMS ADJACENT TO OR UNCOVERED BY ANY EXCAVATION DURING SITE PREPARATION. K. MAINTAIN BENCHMARKS, MONUMENTS AND OTHER REFERENCE POINTS AND CONSTRUCTION
- L. PROTECT ALL IMPROVEMENTS TO REMAIN OR OUTSIDE OF CONSTRUCTION FROM TREE REMOVAL AND/OR PRUNING WORK.

3.04 CLEARING AND GRUBBING

A. PRIOR TO ANY CONSTRUCTION, REMOVE UNSUITABLE SOILS AND VEGETATION FROM BELOW FOUNDATIONS, FLOOR SLABS, EXTERIOR CONCRETE FLATWORK, AND ASPHALT CONCRETE PAVEMENTS AND ROADS.

3.05 SELECTIVE DEMOLITION, GENERAL

- A. GENERAL: DEMOLISH AND REMOVE EXISTING CONSTRUCTION ONLY TO THE EXTENT REQUIRED BY NEW CONSTRUCTION AND AS INDICATED. USE METHODS REQUIRED TO COMPLETE THE WORK WITHIN LIMITATIONS OF GOVERNING REGULATIONS AND AS FOLLOWS:
- 1. PROCEED WITH SELECTIVE DEMOLITION SYSTEMATICALLY. 2. NEATLY CUT OPENINGS AND HOLES PLUMB, SQUARE, AND TRUE TO DIMENSIONS REQUIRED. USE CUTTING METHODS LEAST LIKELY TO DAMAGE CONSTRUCTION TO REMAIN OR ADJOINING CONSTRUCTION. USE HAND TOOLS OR SMALL POWER TOOLS DESIGNED FOR SAWING OR GRINDING, NOT HAMMERING AND CHOPPING, TO MINIMIZE DISTURBANCE OF ADJACENT SURFACES. TEMPORARILY COVER OPENINGS TO REMAIN.
- 3. CUT OR DRILL FROM THE EXPOSED OR FINISHED SIDE INTO CONCEALED SURFACES TO
- AVOID MARRING EXISTING FINISHED SURFACES. 4. DO NOT USE CUTTING TORCHES UNTIL WORK AREA IS CLEARED OF FLAMMABLE MATERIALS. MAINTAIN FIRE WATCH AND PORTABLE FIRE-SUPPRESSION DEVICES DURING FLAME-CUTTING OPERATIONS.
- 5. REMOVE STRUCTURAL FRAMING MEMBERS AND LOWER TO GROUND BY METHOD SUITABLE TO AVOID FREE FALL AND TO PREVENT GROUND IMPACT OR DUST
- 6. DISPOSE OF DEMOLISHED ITEMS AND MATERIALS PROMPTLY.

B. REMOVED AND SALVAGED ITEMS:

- 2. PACK OR CRATE ITEMS AFTER CLEANING. IDENTIFY CONTENTS OF CONTAINERS.
- 3. STORE ITEMS IN A SECURE AREA UNTIL DELIVERY TO OWNER.
- 4. TRANSPORT ITEMS TO OWNER'S STORAGE AREA ON-SITE.
- 5. PROTECT ITEMS FROM DAMAGE DURING TRANSPORT AND STORAGE. C. EXISTING ITEMS TO REMAIN: PROTECT CONSTRUCTION INDICATED TO REMAIN AGAINST DAMAGE AND SOILING DURING SELECTIVE DEMOLITION. WHEN PERMITTED BY ARCHITECT, ITEMS MAY BE REMOVED TO A SUITABLE, PROTECTED STORAGE LOCATION DURING

SELECTIVE DEMOLITION AND CLEANED AND REINSTALLED IN THEIR ORIGINAL LOCATIONS

AFTER SELECTIVE DEMOLITION OPERATIONS ARE COMPLETE. 3.06 SELECTIVE DEMOLITION PROCEDURES FOR SPECIFIC MATERIALS

B. CONCRETE:

- 1. DEMOLISH IN SECTIONS. CUT CONCRETE FULL DEPTH AT JUNCTURES WITH CONSTRUCTION TO REMAIN AND AT REGULAR INTERVALS, USING POWER-DRIVEN SAW, THEN REMOVE CONCRETE BETWEEN SAW CUTS.
- 2. CONCRETE SLABS-ON-GRADE: SAW-CUT PERIMETER OF AREA TO BE DEMOLISHED, THEN BREAK UP AND REMOVE.
- 3. CONCRETE SHALL BE REMOVED TO NEATLY SAWED EDGES WITH SAW CUTS MADE TO A MINIMUM DEPTH OF 4 INCHES.
- 4. CONCRETE SIDEWALK OR DRIVEWAY TO BE REMOVED SHALL BE NEATLY SAWED IN STRAIGHT LINES EITHER PARALLEL TO THE CURB OR AT RIGHT ANGLES TO THE ALIGNMENT OF THE SIDEWALK. NO SECTION TO BE REPLACED SHALL BE SMALLER THAN
- 30 INCHES IN EITHER LENGTH OR WIDTH. 5. UNLESS OTHERWISE SHOWN ON THE DRAWINGS, IF THE SAWCUT WOULD FALL WITHIN 30 INCHES OF A CONSTRUCTION JOINT, EXPANSION JOINT, OR EDGE, THE CONCRETE SHALL BE REMOVED TO THE JOINT OR EDGE, EXCEPT THAT WHERE THE SAW CUT WOULD FALL WITHIN 12 INCHES OF A SCORE MARK, THE SAW CUT SHALL BE MADE IN AND ALONG THE
- 6. CURB AND GUTTER TO BE REMOVED SHALL BE SAWED TO A DEPTH OF 1-1/2 INCHES ON A NEAT LINE AT RIGHT ANGLES TO THE CURB FACE.
- D. FENCES AND MISCELLANEOUS OBSTRUCTIONS
- 3. NO DEMOLITION OR REMOVAL OF FENCES OR MISCELLANEOUS OBSTRUCTIONS SHALL
- PROCEED UNTIL CLEARANCE IS OBTAINED FROM THE OWNER.

3.07 DISPOSAL OF DEMOLISHED MATERIALS

- A. GENERAL: EXCEPT FOR ITEMS OR MATERIALS INDICATED TO BE RECYCLED, REUSED, SALVAGED, REINSTALLED, OR OTHERWISE INDICATED TO REMAIN OWNER'S PROPERTY, REMOVE DEMOLISHED MATERIALS FROM PROJECT SITE AND LEGALLY DISPOSE OF THEM IN AN EPA-APPROVED LANDFILL.
- 1. DO NOT ALLOW DEMOLISHED MATERIALS TO ACCUMULATE ON-SITE.
- 2. REMOVE AND TRANSPORT DEBRIS IN A MANNER THAT WILL PREVENT SPILLAGE ON
- ADJACENT SURFACES AND AREAS. B. BURNING: DO NOT BURN DEMOLISHED MATERIALS.
- C. DISPOSAL: TRANSPORT DEMOLISHED MATERIALS OFF OWNER'S PROPERTY AND LEGALLY DISPOSE OF THEM.

3.08 CLEANING

A. CLEAN ADJACENT STRUCTURES AND IMPROVEMENTS OF DUST, DIRT, AND DEBRIS CAUSED BY SELECTIVE DEMOLITION OPERATIONS. RETURN ADJACENT AREAS TO CONDITION EXISTING

BEFORE SELECTIVE DEMOLITION OPERATIONS BEGAN. END OF SECTION

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823278 PROJECT #:

J. CLEMENTS DRAWN BY: B. WRIGHT CHECKED BY:

GENERAL **SPECIFICATIONS**

A. SECTION INCLUDES: GENERAL PROCEDURES AND REQUIREMENTS FOR SITE WORK

PART 2 PRODUCTS - NOT USED

3.01 PREPARATION

A. SITE VERIFICATION OF CONDITIONS

1. 48 HOURS MINIMUM PRIOR TO PERFORMING ANY WORK ON SITE, CONTACT BLUE STAKES TO ARRANGE FOR UTILITY LOCATION SERVICES

2. PERFORM MINOR, INVESTIGATIVE EXCAVATIONS TO VERIFY LOCATION OF VARIOUS EXISTING UNDERGROUND FACILITIES AT SUFFICIENT LOCATIONS TO ASSURE THAT NO CONFLICT WITH THE PROPOSED WORK EXISTS AND SUFFICIENT CLEARANCE IS AVAILABLE TO AVOID DAMAGE TO EXISTING FACILITIES.

3. PERFORM INVESTIGATIVE EXCAVATING FIVE (5) DAYS MINIMUM IN ADVANCE OF PERFORMING ANY

EXCAVATION OR UNDERGROUND WORK. 4. UPON DISCOVERY OF CONFLICTS OR PROBLEMS WITH EXISTING FACILITIES, NOTIFY ARCHITECT BY PHONE WITHIN 24 HOURS. FOLLOW TELEPHONE NOTIFICATION WITH EMAIL AND DIAGRAMS INDICATING CONFLICT OR PROBLEM AND SUFFICIENT MEASUREMENTS AND DETAILS TO EVALUATE

5. NOTIFY OWNER OF UTILITIES WORK A MINIMUM OF 48 HOURS PRIOR TO ANY WORK TAKING PLACE. 6. PROVIDE UTILITY LOCATOR SERVICE FOR ALL AREAS IDENTIFIED WITHIN CONSTRUCTION LIMITS. REVIEW RESULTS WITH ARCHITECT, ENGINEER AND OWNER PRIOR TO BEGINNING ANY

A. PROTECTION

CONSTRUCTION

a. AVOID SPILLAGE BY COVERING AND SECURING LOADS WHEN HAULING ON OR ADJACENT TO PUBLIC STREETS OR HIGHWAYS. b. REMOVE SPILLAGE AND SWEEP, WASH, OR OTHERWISE CLEAN PROJECT, STREETS, AND

DUST CONTROL a. TAKE PRECAUTIONS NECESSARY TO PREVENT DUST NUISANCE, BOTH ON-SITE AND ADJACENT TO

PUBLIC AND PRIVATE PROPERTIES.

b. CORRECT OR REPAIR DAMAGE CAUSED BY DUST.

3. EROSION CONTROL

a. TAKE PRECAUTIONS NECESSARY TO PREVENT EROSION AND TRANSPORTATION OF SOIL DOWNSTREAM, TO ADJACENT PROPERTIES, AND INTO ON-SITE OR OFF-SITE DRAINAGE SYSTEMS. b. DEVELOP, INSTALL, AND MAINTAIN AN EROSION CONTROL PLAN, IF REQUIRED BY LAW. c. REPAIR AND CORRECT DAMAGE CAUSED BY EROSION.

4. EXISTING PLANTS AND FEATURES a. DO NOT DAMAGE TOPS, TRUNKS, OR ROOTS OF EXISTING TREES AND SHRUBS ON SITE WHICH

ARE INTENDED TO REMAIN. b. DO NOT USE HEAVY EQUIPMENT WITHIN BRANCH SPREAD.

c. DO NOT DAMAGE OTHER PLANTS AND FEATURES WHICH ARE TO REMAIN.

5. PROTECT SITE FROM FIRE CAUSED BY WELDING, CUTTING, SMOKING, OR OTHER SOURCES OF B. IF SPECIFIED PRECAUTIONS ARE NOT TAKEN, OR CORRECTIONS AND REPAIRS MADE PROMPTLY, OWNER MAY TAKE SUCH STEPS AS MAY BE DEEMED NECESSARY, AND DEDUCT COSTS OF SUCH FROM MONIES DUE TO CONTRACTOR. SUCH ACTION, OR LACK OF ACTION, ON OWNER'S PART DOES NOT RELIEVE

CONTRACTOR FROM RESPONSIBILITY FOR PROPER PROTECTION OF THE WORK. 1. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OFF-SITE STREET CUT FEES, ENCROACHMENT

PERMIT FEES, AND BONDING ASSOCIATED WITH THE CONSTRUCTION OF THE PROJECT. 3.03 REPAIR / RESTORATION

A. ADJUST EXISTING COVERS, BOXES, AND VAULTS TO GRADE.

B. REPLACE BROKEN OR DAMAGED COVERS, BOXES, AND VAULTS.

C. INDEPENDENTLY CONFIRM SIZE, LOCATION, AND NUMBER OF COVERS, BOXES, AND VAULTS WHICH REQUIRE ADJUSTMENT.

3.04 FIELD QUALITY CONTROL A. NOTIFY ARCHITECT 48 HOURS PRIOR TO PERFORMING EXCAVATION OR FILL WORK

B. IF WORK HAS BEEN INTERRUPTED BY WEATHER, SCHEDULING, OR OTHER REASON, NOTIFY ARCHITECT 24 HOURS MINIMUM PRIOR TO INTENDED RESUMPTION OF GRADING OR COMPACTING.

C. OWNER RESERVES RIGHT TO REQUIRE ADDITIONAL TESTING TO RE-AFFIRM SUITABILITY OF COMPLETED WORK INCLUDING COMPACTED SOILS WHICH HAVE BEEN EXPOSED TO ADVERSE WEATHER CONDITIONS. END OF SECTION

PART 1 GENERAL 1.01 SECTION INCLUDES

A. CLEARING AND PROTECTION OF VEGETATION.

B. CI FARING AND GRUBBING C. STRIPPING AND STOCKPILING TOPSOIL.

D. REMOVING ABOVE- AND BELOW- GRADE SITE IMPROVEMENTS.

E. TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES. F. REMOVAL OF EXISTING DEBRIS.

1.02 RELATED REQUIREMENTS

A. SECTION 01 7000 - EXECUTION AND CLOSEOUT REQUIREMENTS: PROJECT CONDITIONS; PROTECTION OF BENCH MARKS, SURVEY CONTROL POINTS, AND EXISTING CONSTRUCTION TO REMAIN;

REINSTALLATION OF REMOVED PRODUCTS. B. SECTION 31 2200 - GRADING: TOPSOIL REMOVAL. C. SECTION 31 2200 - GRADING: FILL MATERIAL FOR FILLING HOLES, PITS, AND EXCAVATIONS GENERATED

AS A RESULT OF REMOVAL OPERATIONS. 1.03 DEFINITIONS

A. TOPSOIL: NATURAL OR CULTIVATED SURFACE-SOIL LAYER CONTAINING ORGANIC MATTER AND SAND, SILT, AND CLAY PARTICLES; FRIABLE, PERVIOUS, AND BLACK OR A DARKER SHADE OF BROWN, GRAY, OR RED THAN UNDERLYING SUBSOIL: REASONABLY FREE OF SUBSOIL. CLAY LUMPS. GRAVEL. AND OTHER OBJECTS MORE THAN 2 INCHES IN DIAMETER; AND FREE OF SUBSOIL AND WEEDS, ROOTS, TOXIC MATERIALS, OR OTHER NON-SOIL MATERIALS.

1.04 MATERIAL OWNERSHIP A. EXCEPT FOR STRIPPED TOPSOIL OR OTHER MATERIALS INDICATED TO REMAIN OWNER'S PROPERTY.

CLEARED MATERIALS SHALL BECOME CONTRACTOR'S PROPERTY AND SHALL BE REMOVED FROM

A. PHOTOGRAPHS OR VIDEOTAPE, SUFFICIENTLY DETAILED, OF EXISTING CONDITIONS OF TREES AND PLANTINGS, ADJOINING CONSTRUCTION, AND SITE IMPROVEMENTS THAT MIGHT BE MISCONSTRUED AS

B. RECORD DRAWINGS, ACCORDING TO SECTION 017823 PROJECT RECORD DOCUMENTS, IDENTIFYING AND ACCURATELY LOCATING CAPPED UTILITIES AND OTHER SUBSURFACE STRUCTURAL, ELECTRICAL,

1.06 QUALITY ASSURANCE

A. PRE-INSTALLATION CONFERENCE: CONDUCT CONFERENCE AT PROJECT SITE TO COMPLY WITH REQUIREMENTS IN SECTION 017823 PROJECT MANAGEMENT AND COORDINATION. 1.07 PROJECT CONDITIONS

A. TRAFFIC: MINIMIZE INTERFERENCE WITH ADJOINING ROADS, STREETS, WALKS, AND OTHER ADJACENT

OCCUPIED OR USED FACILITIES DURING SITE-CLEARING OPERATIONS 1. DO NOT CLOSE OR OBSTRUCT STREETS, WALKS, OR OTHER ADJACENT OCCUPIED OR USED FACILITIES WITHOUT PERMISSION FROM OWNER AND AUTHORITIES HAVING JURISDICTION.

2. PROVIDE ALTERNATE ROUTES AROUND CLOSED OR OBSTRUCTED TRAFFIC WAYS IF REQUIRED BY AUTHORITIES HAVING JURISDICTION. B. SALVABLE IMPROVEMENTS: CAREFULLY REMOVE ITEMS INDICATED TO BE SALVAGED AND STORE ON

OWNER'S PREMISES WHERE APPROVED.

C. UTILITY LOCATOR SERVICE: NOTIFY UTILITY LOCATOR SERVICE FOR AREA WHERE PROJECT IS LOCATED BEFORE SITE CLEARING. D. DO NOT COMMENCE SITE CLEARING OPERATIONS UNTIL TEMPORARY EROSION AND SEDIMENTATION

CONTROL MEASURES ARE IN PLACE.

2.01 SOIL MATERIALS

A. SATISFACTORY SOIL MATERIAL: AS SPECIFIED IN SECTION 31 2300 - EARTH WORK 1. OBTAIN APPROVED BORROW SOIL MATERIALS OFF-SITE WHEN SATISFACTORY SOIL MATERIALS ARE NOT AVAILABLE ON-SITE.

A. PROTECT AND MAINTAIN BENCHMARKS AND SURVEY CONTROL POINTS FROM DISTURBANCE DURING

CONSTRUCTION. B. PROTECT EXISTING SITE IMPROVEMENTS TO REMAIN FROM DAMAGE DURING CONSTRUCTION. 1. RESTORE DAMAGED IMPROVEMENTS TO THEIR ORIGINAL CONDITION, AS ACCEPTABLE TO OWNER.

3.02 TEMPORARY EROSION AND SEDIMENTATION CONTROL A. PROVIDE TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES TO PREVENT SOIL EROSION AND DISCHARGE OF SOIL-BEARING WATER RUNOFF OR AIRBORNE DUST TO ADJACENT PROPERTIES AND WALKWAYS, ACCORDING TO REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION, SEDIMENT AND EROSION CONTROL DRAWINGS, A SEDIMENT AND EROSION CONTROL PLAN, SPECIFIC TO THE SITE, THAT

COMPLIES WITH EPA 832/R-92-005 OR REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION, WHICHEVER IS MORE STRINGENT.

B. INSPECT, REPAIR, AND MAINTAIN EROSION AND SEDIMENTATION CONTROL MEASURES DURING

CONSTRUCTION UNTIL PERMANENT VEGETATION HAS BEEN ESTABLISHED. C. REMOVE EROSION AND SEDIMENTATION CONTROLS AND RESTORE AND STABILIZE AREAS DISTURBED DURING REMOVAL.

3.03 SITE CLEARING AND GRUBBING A. COMPLY WITH OTHER REQUIREMENTS SPECIFIED IN SECTION 01 7000.

B. REMOVE OBSTRUCTIONS, GRASS, AND OTHER VEGETATION TO PERMIT INSTALLATION OF NEW C. FILL DEPRESSIONS CAUSED BY CLEARING AND GRUBBING OPERATIONS WITH SATISFACTORY SOIL MATERIAL UNLESS FURTHER EXCAVATION OR EARTHWORK IS INDICATED.

1. PLACE FILL MATERIAL IN HORIZONTAL LAYERS NOT EXCEEDING A LOOSE DEPTH OF 8 INCHES AND COMPACT EACH LAYER TO A DENSITY EQUAL TO ADJACENT ORIGINAL GROUND. D. MINIMIZE PRODUCTION OF DUST DUE TO CLEARING OPERATIONS; DO NOT USE WATER IF THAT WILL RESULT IN ICE, FLOODING, SEDIMENTATION OF PUBLIC WATERWAYS OR STORM SEWERS, OR OTHER

3.04 EXISTING UTILITIES AND BUILT ELEMENTS A. COORDINATE WORK WITH UTILITY COMPANIES; NOTIFY BEFORE STARTING WORK AND COMPLY WITH THEIR REQUIREMENTS; OBTAIN REQUIRED PERMITS. 1. OWNER WILL ARRANGE TO SHUT OFF INDICATED UTILITIES WHEN REQUESTED BY CONTRACTOR.

B. PROTECT EXISTING UTILITIES TO REMAIN FROM DAMAGE. C. DO NOT DISRUPT PUBLIC UTILITIES WITHOUT PERMIT FROM AUTHORITY HAVING JURISDICTION. 1. NOTIFY ARCHITECT NOT LESS THAN TWO DAYS IN ADVANCE OF PROPOSED UTILITY INTERRUPTIONS.

2. DO NOT PROCEED WITH UTILITY INTERRUPTIONS WITHOUT ARCHITECT'S WRITTEN PERMISSION. D. PROTECT EXISTING STRUCTURES AND OTHER ELEMENTS THAT ARE NOT TO BE REMOVED. A. IN AREAS WHERE VEGETATION MUST BE REMOVED BUT NO CONSTRUCTION WILL OCCUR OTHER THAN

PERVIOUS PAVING, REMOVE VEGETATION WITH MINIMUM DISTURBANCE OF THE SUBSOIL.

1. CHIP, GRIND, CRUSH, OR SHRED VEGETATION FOR MULCHING, COMPOSTING, OR OTHER PURPOSES; PREFERENCE SHOULD BE GIVEN TO ON-SITE USES. C. RESTORATION: IF VEGETATION OUTSIDE REMOVAL LIMITS OR WITHIN SPECIFIED PROTECTIVE FENCES IS DAMAGED OR DESTROYED DUE TO SUBSEQUENT CONSTRUCTION OPERATIONS, REPLACE AT NO COST

B. VEGETATION REMOVED: DO NOT BURN, BURY, LANDFILL, OR LEAVE ON SITE, EXCEPT AS INDICATED.

A. REMOVE EXISTING ABOVE-GRADE AND BELOW-GRADE IMPROVEMENTS AS INDICATED AND AS NECESSARY TO FACILITATE NEW CONSTRUCTION. REFER TO PROJECT PLANS FOR IMPROVEMENTS TO BE ABANDONED IN PLACE.

B. REMOVE PAVING AND AGGREGATE BASE AS INDICATED. 1. UNLESS EXISTING FULL-DEPTH JOINTS COINCIDE WITH LINE OF DEMOLITION, NEATLY SAW-CUT LENGTH OF EXISTING PAVEMENT TO REMAIN BEFORE REMOVING EXISTING PAVEMENT. SAW-CUT FACES VERTICALLY

2. PAINT CUT ENDS OF STEEL REINFORCEMENT IN CONCRETE TO REMAIN TO PREVENT CORROSION. 3.08 DEBRIS

A. REMOVE DEBRIS, JUNK, AND TRASH FROM SITE. B. LEAVE SITE IN CLEAN CONDITION, READY FOR SUBSEQUENT WORK. C. CLEAN UP SPILLAGE AND WIND-BLOWN DEBRIS FROM PUBLIC AND PRIVATE LANDS.

A. REMOVE SURPLUS SOIL MATERIAL, UNSUITABLE TOPSOIL, OBSTRUCTIONS, DEMOLISHED MATERIALS, AND WASTE MATERIALS INCLUDING TRASH AND DEBRIS, AND LEGALLY DISPOSE OF THEM OFF OWNER'S 1. SEPARATE RECYCLABLE MATERIALS PRODUCED DURING SITE CLEARING FROM OTHER

NON-RECYCLABLE MATERIALS. STORE OR STOCKPILE WITHOUT INTERMIXING WITH OTHER MATERIALS AND TRANSPORT THEM TO RECYCLING FACILITIES. END OF SECTION

SITE EXCAVATION AND ROUGH GRADING

1.01 DESCRIPTION

A. DEFINITIONS:

3.07 SITE IMPROVEMENTS

1. UNSUITABLE MATERIAL: DEBRIS AND/OR SOIL MATERIAL JUDGED UNSUITABLE BY ENGINEER FOR SUPPORT OF SLABS OR OTHER SITE IMPROVEMENTS.

a. ENGINEER: SOILS ENGINEER EMPLOYED BY OWNER, EMPOWERED TO CONDUCT INSPECTIONS AND MAKE APPROVALS. 1.02 QUALITY ASSURANCE

A. COMPACTION DENSITY TEST: 1. MODIFIED PROCTOR, ASTM-D 1557.

B. LAYOUT WORK BY SURVEYOR OR CIVIL ENGINEER REGISTERED IN THE STATE OF UTAH. IDENTIFY BENCHMARK TO BE USED IN ESTABLISHING GRADES. C. TOLERANCES OF SUB-GRADE:

1) UNSURFACED AREAS: PLUS/MINUS 0.20 FT FROM REQUIRED ELEVATIONS. 2) PAVED AREAS: PLUS/MINUS 0.10 FT FROM REQUIRED ELEVATIONS. 1.03 JOB CONDITIONS A. PROTECT EXISTING FACILITIES, UTILITIES (OVERHEAD AND UNDERGROUND), SIDEWALKS, PAVEMENT.

 REPAIR DAMAGED ITEMS. 2. NOTIFY OWNER AND MAKE EMERGENCY REPAIR AS DIRECTED.

B. PROTECT GRADED AREAS AGAINST EROSION. 1. RE-ESTABLISH GRADE WHERE SETTLEMENT OR WASHING OCCURS AT NO EXTRA COST.

2.01 MATERIALS A. FILL MATERIALS

1. REASONABLY FREE OF ROOTS, ORGANIC MATERIAL, TRASH, FROZEN MATTER, AND STONES LARGER THAN 6-INCHES.

2. ADD WATER TO DRY MATERIAL, AS REQUIRED. ALLOW WET MATERIAL TO DRY, AS REQUIRED.

4. FILL CAN ONLY BE OBTAINED ON SITE WHERE REMOVED FROM EXCAVATING AND GRADING. 5. PROVIDE ADDITIONAL OFF-SITE BORROW OR FILL AS REQUIRED.

B. SURPLUS MATERIAL: REMOVE FROM SITE.

3.01 PREPARATION

A. LAYOUT WALKS AND ESTABLISH THEIR ELEVATIONS.

B. PERFORM OTHER LAYOUT WORK REQUIRED. 3.02 GENERAL

A. EXCAVATE AND GRADE MATERIALS TO DESIGN ELEVATIONS. B. EXCAVATE AND GRADE SITE TO SUBGRADES OF PAVED AND UNPAVED AREAS AS INDICATED. C. EXCAVATE FOR MISCELLANEOUS FOOTINGS, SLABS, WALKS AND OTHER STRUCTURES.

D. CUT AND FILL AS REQUIRED TO BRING EXISTING GRADES TO ROUGH GRADES. E. FURNISH AND PLACE ADDITIONAL APPROVED MATERIAL REQUIRED TO BRING SUBGRADE TO PROPER

LINE AND GRADE. F. DURING CONSTRUCTION, SHAPE AND DRAIN EMBANKMENTS AND EXCAVATION. G. MAINTAIN DITCHES AND DRAINS TO PROVIDE DRAINAGE.

H. PROVIDE PUMPING IF REQUIRED. I. REMOVE UNSUITABLE MATERIALS WHICH CANNOT BE COMPACTED AS SPECIFIED AND REPLACE WITH

SUITABLE MATERIAL 1. DISPOSE MATERIAL ON SITE AS DIRECTED. DISPOSE MATERIAL OFF SITE AS DIRECTED.

J. REMOVE MATERIALS UNSUITABLE TO RECEIVE FILL AND REPLACE WITH SUITABLE MATERIAL. **END OF SECTION**

SECTION 31 2300 EARTHWORK

1.01 RELATED DOCUMENTS

PORF WATER.

A. DRAWINGS AND GENERAL PROVISIONS OF THE CONTRACT, INCLUDING GENERAL AND SUPPLEMENTARY CONDITIONS AND DIVISION 1 SPECIFICATION SECTIONS, APPLY TO THIS SECTION.

1.02 SUMMARY A. THIS SECTION INCLUDES THE FOLLOWING: 1. PREPARING SUBGRADES FOR SLABS-ON-GRADE, WALKS, PAVEMENTS, LAWNS, AND PLANTINGS. 2. EXCAVATING AND BACKFILLING FOR BUILDINGS AND STRUCTURES.

3. SUBBASE COURSE FOR CONCRETE WALKS AND PAVEMENTS.

A. BACKFILL: SOIL MATERIALS USED TO FILL AN EXCAVATION.

B. RELATED SECTIONS INCLUDE THE FOLLOWING: 1. DIVISION 2 SECTION 02 4119 "SELECTIVE SITE DEMOLITION" FOR TEMPORARY CONTROLS AND SITE STRIPPING, GRUBBING, REMOVING TOPSOIL, AND PROTECTING TREES TO REMAIN.

1. INITIAL BACKFILL: BACKFILL PLACED BESIDE AND OVER PIPE IN A TRENCH, INCLUDING HAUNCHES 2. FINAL BACKFILL: BACKFILL PLACED OVER INITIAL BACKFILL TO FILL A TRENCH. B. BORROW: SATISFACTORY SOIL IMPORTED FROM OFF-SITE FOR USE AS FILL OR BACKFILL.

D. EXCAVATION: REMOVAL OF MATERIAL ENCOUNTERED ABOVE SUBGRADE ELEVATIONS.

C. DRAINAGE COURSE: LAYER SUPPORTING SLAB-ON-GRADE USED TO MINIMIZE CAPILLARY FLOW OF 1. BEYOND BUILDING PERIMETER, EXCAVATE TRENCHES TO ALLOW INSTALLATION OF TOP OF PIPE BELOW FROST LINE

1. BULK EXCAVATION: EXCAVATIONS MORE THAN 10 FEET (3 M) IN WIDTH AND PITS MORE THAN 30 FEET (9 M) IN EITHER LENGTH OR WIDTH.

2. UNAUTHORIZED EXCAVATION: EXCAVATION BELOW SUBGRADE ELEVATIONS OR BEYOND INDICATED DIMENSIONS WITHOUT DIRECTION BY ARCHITECT. UNAUTHORIZED EXCAVATION, AS WELL AS REMEDIAL WORK DIRECTED BY ARCHITECT, SHALL BE WITHOUT ADDITIONAL COMPENSATION.

E. FILL: SOIL MATERIALS USED TO RAISE EXISTING GRADES. F. STRUCTURES: BUILDINGS, FOOTINGS, FOUNDATIONS, RETAINING WALLS, SLABS, TANKS, CURBS, MECHANICAL AND ELECTRICAL APPURTENANCES, OR OTHER MAN-MADE STATIONARY FEATURES

CONSTRUCTED ABOVE OR BELOW THE GROUND SURFACE. G. SUBBASE COURSE: LAYER PLACED BETWEEN THE SUBGRADE AND BASE COURSE FOR ASPHALT PAVING, OR LAYER PLACED BETWEEN THE SUBGRADE AND A CONCRETE PAVEMENT OR WALK.

H. SUBGRADE: SURFACE OR ELEVATION REMAINING AFTER COMPLETING EXCAVATION, OR TOP SURFACE OF A FILL OR BACKFILL IMMEDIATELY BELOW SUBBASE, DRAINAGE FILL, OR TOPSOIL MATERIALS. I. UTILITIES: UTILITIES INCLUDE ON-SITE UNDERGROUND PIPES, CONDUITS, DUCTS, AND CABLES, AS WELL AS UNDERGROUND SERVICES WITHIN BUILDINGS.

A. MATERIAL TEST REPORTS: FROM A QUALIFIED TESTING AGENCY INDICATING AND INTERPRETING TEST RESULTS FOR COMPLIANCE OF THE FOLLOWING WITH REQUIREMENTS INDICATED: 1. CLASSIFICATION ACCORDING TO ASTM D 2487 OF EACH ON-SITE OR BORROW SOIL MATERIAL

PROPOSED FOR FILL AND BACKFILL. 2. LABORATORY COMPACTION CURVE ACCORDING TO ASTM D 1557 FOR EACH ON-SITE OR BORROW SOIL MATERIAL PROPOSED FOR FILL AND BACKFILL.

A. EXISTING UTILITIES: LOCATE EXISTING UNDERGROUND UTILITIES IN AREAS OF WORK. IF UTILITIES ARE TO REMAIN IN PLACE, PROVIDE ADEQUATE MEANS OF SUPPORT AND PROTECTION DURING EARTHWORK 1. SHOULD UNCHARTED, OR INCORRECTLY CHARTED, PIPING OR OTHER UTILITIES BE ENCOUNTERED DURING EXCAVATION, CONSULT UTILITY OWNER IMMEDIATELY FOR DIRECTIONS. COOPERATE WITH

OWNER AND UTILITY COMPANIES IN KEEPING RESPECTIVE SERVICES AND FACILITIES IN OPERATION. REPAIR DAMAGED UTILITIES TO SATISFACTION OF UTILITY OWNER. 2. DO NOT INTERRUPT UTILITIES SERVING FACILITIES OCCUPIED BY OWNER OR OTHERS UNLESS PERMITTED IN WRITING BY ARCHITECT AND THEN ONLY AFTER ARRANGING TO PROVIDE TEMPORARY UTILITY SERVICES ACCORDING TO REQUIREMENTS INDICATED:

3. NOTIFY ARCHITECT NOT LESS THAN SEVEN (7) DAYS IN ADVANCE OF PROPOSED UTILITY 4. DO NOT PROCEED WITH UTILITY INTERRUPTIONS WITHOUT ARCHITECT'S WRITTEN PERMISSION. 5. CONTACT UTILITY-LOCATOR SERVICE FOR AREA WHERE PROJECT IS LOCATED BEFORE EXCAVATING. B. PROTECTION OF PERSONS AND PROPERTY: BARRICADE OPEN EXCAVATIONS OCCURRING AS PART OF

1. OPERATE WARNING LIGHTS AS RECOMMENDED BY AUTHORITIES HAVING JURISDICTION.

THIS WORK AND POST WITH WARNING LIGHTS.

2.01 SOIL MATERIALS A. GENERAL: PROVIDE BORROW SOIL MATERIALS WHEN SUFFICIENT SATISFACTORY SOIL MATERIALS ARE

NOT AVAILABLE FROM EXCAVATIONS. B. SATISFACTORY SOILS: ASTM D 2487 SOIL CLASSIFICATION GROUPS GW, GP, GM, SW, SP, AND SM, OR A COMBINATION OF THESE GROUP SYMBOLS; FREE OF ROCK OR GRAVEL LARGER THAN 4 INCHES (100 MM) IN ANY DIMENSION, DEBRIS, WASTE, FROZEN MATERIALS, VEGETATION, AND OTHER DELETERIOUS

C. UNSATISFACTORY SOILS: ASTM D 2487 SOIL CLASSIFICATION GROUPS GC, SC, ML, MH, CL, CH, OL, OH, AND PT, OR A COMBINATION OF THESE GROUP SYMBOLS. 1. UNSATISFACTORY SOILS ALSO INCLUDE SATISFACTORY SOILS NOT MAINTAINED WITHIN 2 PERCENT OF OPTIMUM MOISTURE CONTENT AT TIME OF COMPACTION.

D. BACKFILL AND FILL: SATISFACTORY SOIL MATERIALS. E. SUBBASE: NATURALLY OR ARTIFICIALLY WELL GRADED MIXTURE OF NATURAL OR CRUSHED GRAVEL, CRUSHED STONE, AND NATURAL OR CRUSHED SAND; ASTM D 2940; WITH AT LEAST 70 PERCENT PASSING A 3/4- INCH (18-MM) SIEVE AND NOT MORE THAN 25 PERCENT PASSING A NO. 200 (0.075-MM)

F. BASE COURSE: NATURALLY OR ARTIFICIALLY GRADED MIXTURE OF NATURAL OR CRUSHED GRAVEL, CRUSHED STONE, AND NATURAL OR CRUSHED SAND; ASTM D 2940; CONFORMING TO THE 1 INCH GRADATION REQUIREMENTS OF SECTION 301 OF THE UDOT STANDARD SPECIFICATION FOR ROAD AND G. ENGINEERED FILL: NATURALLY OR ARTIFICIALLY GRADED MIXTURE OF NATURAL OR CRUSHED GRAVEL,

CRUSHED STONE, AND NATURAL OR CRUSHED SAND; ASTM D 2940; WITH AT LEAST 70 PERCENT

PASSING A 3/4-INCH (18-MM) SIEVE AND NOT MORE THAN 25 PERCENT PASSING A NO. 200 (0.075-MM) H. BEDDING: NATURALLY OR ARTIFICIALLY GRADED MIXTURE OF NATURAL OR CRUSHED GRAVEL, CRUSHED STONE, AND NATURAL OR CRUSHED SAND; ASTM D 2940; EXCEPT WITH 100 PERCENT

PASSING A 1-INCH (25-MM) SIEVE AND NOT MORE THAN 8 PERCENT PASSING A NO. 200 (0.075-MM) I. DRAINAGE FILL: WASHED, NARROWLY GRADED MIXTURE OF CRUSHED STONE, OR CRUSHED OR UNCRUSHED GRAVEL; ASTM D 448; COARSE-AGGREGATE GRADING SIZE 57; WITH 100 PERCENT PASSING A 1-1/2- INCH (38-MM) SIEVE AND 0 TO 5 PERCENT PASSING A NO. 8 (2.36-MM) SIEVE. J. FILTER MATERIAL: NARROWLY GRADED MIXTURE OF NATURAL OR CRUSHED GRAVEL. OR CRUSHED STONE AND NATURAL SAND; ASTM D 448; COARSE-AGGREGATE GRADING SIZE 67; WITH 100 PERCENT PASSING A 1-INCH (25-MM) SIEVE AND 0 TO 5 PERCENT PASSING A NO. 4 (4.75-MM) SIEVE.

K. IMPERVIOUS FILL: CLAYEY GRAVEL AND SAND MIXTURE CAPABLE OF COMPACTING TO A DENSE STATE. 2.02 ACCESSORIES A. WARNING TAPE: ACID- AND ALKALI-RESISTANT POLYETHYLENE FILM WARNING TAPE MANUFACTURED FOR MARKING AND IDENTIFYING UNDERGROUND UTILITIES, 6 INCHES (150 MM) WIDE AND 4 MILS (0.1 MM) THICK, CONTINUOUSLY INSCRIBED WITH A DESCRIPTION OF THE UTILITY; COLORED AS FOLLOWS: B. DETECTABLE WARNING TAPE: ACID- AND ALKALI-RESISTANT POLYETHYLENE FILM WARNING TAPE MANUFACTURED FOR MARKING AND IDENTIFYING UNDERGROUND UTILITIES, MINIMUM 6 INCHES (150 MM) WIDE AND 4 MILS (0.1 MM) THICK, CONTINUOUSLY INSCRIBED WITH A DESCRIPTION OF UTILITY, WITH METALLIC CORE ENCASED IN A PROTECTIVE JACKET FOR CORROSION PROTECTION, DETECTABLE

BY METAL DETECTOR WHEN TAPE IS BURIED UP TO 30 INCHES (750 MM) DEEP; COLORED AS FOLLOWS: 1 RED: FLECTRIC 2. YELLOW: GAS, OIL, STEAM, AND DANGEROUS MATERIALS.

3. ORANGE: TELEPHONE AND OTHER COMMUNICATIONS.

4. BLUE: WATER SYSTEMS. GREEN: SEWER SYSTEMS. C. TRACE WIRE: INSULATED 10 GAGE COPPER, SUITABLE FOR DIRECT BURY.

3.01 PREPARATION A. PROTECT STRUCTURES, UTILITIES, SIDEWALKS, PAVEMENTS, AND OTHER FACILITIES FROM DAMAGE CAUSED BY SETTLEMENT, LATERAL MOVEMENT, UNDERMINING, WASHOUT, AND OTHER HAZARDS

CREATED BY EARTHWORK OPERATIONS. B. PROTECT SUBGRADES AND FOUNDATION SOILS AGAINST FREEZING TEMPERATURES OR FROST. PROVIDE PROTECTIVE INSULATING MATERIALS AS NECESSARY

C. PROVIDE EROSION-CONTROL MEASURES TO PREVENT EROSION OR DISPLACEMENT OF SOILS AND DISCHARGE OF SOIL-BEARING WATER RUNOFF OR AIRBORNE DUST TO ADJACENT PROPERTIES AND 3.02 DEWATERING

PREPARED SUBGRADES, AND FROM FLOODING PROJECT SITE AND SURROUNDING AREA. B. PROTECT SUBGRADES FROM SOFTENING, UNDERMINING, WASHOUT, AND DAMAGE BY RAIN OR WATER

A. PREVENT SURFACE WATER AND GROUND WATER FROM ENTERING EXCAVATIONS, FROM PONDING ON

1. REROUTE SURFACE WATER RUNOFF AWAY FROM EXCAVATED AREAS. DO NOT ALLOW WATER TO ACCUMULATE IN EXCAVATIONS. DO NOT USE EXCAVATED TRENCHES AS TEMPORARY DRAINAGE 2. INSTALL A DEWATERING SYSTEM TO KEEP SUBGRADES DRY AND CONVEY GROUND WATER AWAY

FROM EXCAVATIONS. MAINTAIN UNTIL DEWATERING IS NO LONGER REQUIRED. 3.03 EXPLOSIVES - NOT ALLOWED

3.04 EXCAVATION, GENERAL A. UNCLASSIFIED EXCAVATION: EXCAVATION TO SUBGRADE ELEVATIONS REGARDLESS OF THE CHARACTER OF SURFACE AND SUBSURFACE CONDITIONS ENCOUNTERED, INCLUDING ROCK, SOIL 1. IF EXCAVATED MATERIALS INTENDED FOR FILL AND BACKFILL INCLUDE UNSATISFACTORY SOIL

MATERIALS AND ROCK, REPLACE WITH SATISFACTORY SOIL MATERIALS. 3.05 EXCAVATION FOR STRUCTURES A. EXCAVATE TO INDICATED ELEVATIONS AND DIMENSIONS WITHIN A TOLERANCE OF PLUS OR MINUS 0.1 FT (25 MM). EXTEND EXCAVATIONS A SUFFICIENT DISTANCE FROM STRUCTURES FOR PLACING AND REMOVING CONCRETE FORMWORK, FOR INSTALLING SERVICES AND OTHER CONSTRUCTION, AND FOR

INSPECTIONS. 1. EXCAVATIONS FOR FOOTINGS AND FOUNDATIONS: DO NOT DISTURB BOTTOM OF EXCAVATION. IF REQUIRED TO NOT DISTURB BOTTOM OF EXCAVATION, EXCAVATE BY HAND TO FINAL GRADE JUST BEFORE PLACING CONCRETE REINFORCEMENT. TRIM BOTTOMS TO REQUIRED LINES AND GRADES TO LEAVE SOLID BASE TO RECEIVE OTHER WORK.

2. EXCAVATION FOR UNDERGROUND MECHANICAL OR ELECTRICAL UTILITY STRUCTURES: EXCAVATE

TO ELEVATIONS AND DIMENSIONS INDICATED WITHIN A TOLERANCE OF PLUS OR MINUS 0.1 FT (25 MM). DO NOT DISTURB BOTTOM OF EXCAVATIONS INTENDED FOR BEARING SURFACE. 3.06 EXCAVATION FOR WALKS AND PAVEMENTS A. EXCAVATE SURFACES UNDER WALKS AND PAVEMENTS TO INDICATED CROSS SECTIONS, ELEVATIONS,

AND GRADES 3.07 EXCAVATION FOR UTILITY TRENCHES A. TRENCH EXCAVATION: EXCAVATE TRENCHES TO INDICATED GRADIENTS, LINES, DEPTHS, AND 2. TRENCH CLEARANCE: EXCAVATE TRENCHES TO UNIFORM WIDTHS TO PROVIDE A WORKING CLEARANCE ON EACH SIDE OF PIPE OR CONDUIT. EXCAVATE TRENCH WALLS VERTICALLY FROM TRENCH BOTTOM TO 12 INCHES (300 MM) HIGHER THAN TOP OF PIPE OR CONDUIT, UNLESS

OTHERWISE INDICATED. 3. CLEARANCE: 12 INCHES (300 MM) ON EACH SIDE OF PIPE OR CONDUIT

B. TRENCH BOTTOMS: EXCAVATE AND SHAPE TRENCH BOTTOMS TO PROVIDE UNIFORM BEARING AND SUPPORT OF PIPES AND CONDUIT. SHAPE SUBGRADE TO PROVIDE CONTINUOUS SUPPORT FOR BELLS, JOINTS, AND BARRELS OF PIPES AND FOR JOINTS, FITTINGS, AND BODIES OF CONDUITS. REMOVE

PROJECTING STONES AND SHARP OBJECTS ALONG TRENCH SUBGRADE. 1. FOR PIPES AND CONDUIT LESS THAN 6 INCHES (150 MM) IN NOMINAL DIAMETER AND FLAT-BOTTOMED, MULTIPLE-DUCT CONDUIT UNITS, HAND-EXCAVATE TRENCH BOTTOMS AND SUPPORT PIPE AND CONDUIT ON AN UNDISTURBED SUBGRADE.

2. FOR PIPES AND CONDUIT 6 INCHES (150 MM) OR LARGER IN NOMINAL DIAMETER, SHAPE BOTTOM OF TRENCH TO SUPPORT BOTTOM 90 DEGREES OF PIPE CIRCUMFERENCE. FILL DEPRESSIONS WITH TAMPED SAND BACKFILL.

3. EXCAVATE TRENCHES 6 INCHES (150 MM) DEEPER THAN ELEVATION REQUIRED IN ROCK OR OTHER UNYIELDING BEARING MATERIAL TO ALLOW FOR BEDDING COURSE C. TRENCH BOTTOMS: EXCAVATE TRENCHES 4 INCHES (100 MM) DEEPER THAN BOTTOM OF PIPE

ELEVATION TO ALLOW FOR BEDDING COURSE. HAND EXCAVATE FOR BELL OF PIPE. 1. EXCAVATE TRENCHES 6 INCHES (150 MM) DEEPER THAN ELEVATION REQUIRED IN ROCK OR OTHER UNYIELDING BEARING MATERIAL TO ALLOW FOR BEDDING COURSE. 3.08 TRENCH SUPPORT SYSTEMS

A. TRENCH SUPPORT SYSTEM SHALL BE SUITABLE FOR THE SOIL STRUCTURE, DEPTH OF CUT, WATER CONTENT OF SOIL, WEATHER CONDITIONS, SUPERIMPOSED LOADS AND VIBRATION. CONTRACTOR MAY SELECT ONE OF THE FOLLOWING METHODS OF ENSURING THE SAFETY OF WORKERS IN THE TRENCH, AS APPROVED BY THE UTAH STATE INDUSTRIAL COMMISSION OR ITS SAFETY INSPECTORS: 1. SLOPING THE SIDES OF THE TRENCH TO THE ANGLE OF REPOSE AT WHICH THE SOIL WILL REMAIN

2. SHORING TRENCH SIDES BY PLACING SHEETING, TIMBER SHORES, TRENCH JACKS, BRACING, PILES, OR OTHER MATERIALS TO RESIST PRESSURES SURROUNDING THE EXCAVATION. 3. USING A MOVABLE TRENCH BOX BUILT-UP OF STEEL PLATES AND HEAVY STEEL FRAME OF SUFFICIENT STRENGTH TO RESIST THE PRESSURES SURROUNDING THE EXCAVATION.

A. NOTIFY ARCHITECT WHEN EXCAVATIONS HAVE REACHED REQUIRED SUBGRADE. B. IF ARCHITECT DETERMINES THAT UNSATISFACTORY SOIL IS PRESENT, CONTINUE EXCAVATION AND REPLACE WITH COMPACTED BACKFILL OR FILL MATERIAL AS DIRECTED C. PROOF ROLL SUBGRADE WITH HEAVY PNEUMATIC-TIRED EQUIPMENT TO IDENTIFY SOFT POCKETS AND AREAS OF EXCESS YIELDING. DO NOT PROOF ROLL WET OR SATURATED SUBGRADES.

D. RECONSTRUCT SUBGRADES DAMAGED BY FREEZING TEMPERATURES, FROST, RAIN, ACCUMULATED WATER, OR CONSTRUCTION ACTIVITIES, AS DIRECTED BY ARCHITECT. 3.10 UNAUTHORIZED EXCAVATION A. FILL UNAUTHORIZED EXCAVATION UNDER FOUNDATIONS OR WALL FOOTINGS BY EXTENDING BOTTOM ELEVATION OF CONCRETE FOUNDATION OR FOOTING TO EXCAVATION BOTTOM, WITHOUT ALTERING TOP

ELEVATION. LEAN CONCRETE FILL MAY BE USED WHEN APPROVED BY ARCHITECT. 1. FILL UNAUTHORIZED EXCAVATIONS UNDER OTHER CONSTRUCTION OR UTILITY PIPE AS DIRECTED BY

3.11 STORAGE OF SOIL MATERIALS A. STOCKPILE BORROW MATERIALS AND SATISFACTORY EXCAVATED SOIL MATERIALS. STOCKPILE SOIL MATERIALS WITHOUT INTERMIXING. PLACE, GRADE, AND SHAPE STOCKPILES TO DRAIN SURFACE

1. STOCKPILE SOIL MATERIALS AWAY FROM EDGE OF EXCAVATIONS. DO NOT STORE WITHIN DRIP LINE

OF REMAINING TREES. A. PLACE AND COMPACT BACKFILL IN EXCAVATIONS PROMPTLY, BUT NOT BEFORE COMPLETING THE

1. CONSTRUCTION BELOW FINISH GRADE INCLUDING, WHERE APPLICABLE, DAMPPROOFING, WATERPROOFING, AND PERIMETER INSULATION.

2. SURVEYING LOCATIONS OF UNDERGROUND UTILITIES FOR RECORD DOCUMENTS. 3. INSPECTING AND TESTING UNDERGROUND UTILITIES. REMOVING CONCRETE FORMWORK.

5. REMOVING TRASH AND DEBRIS.

WATER. COVER TO PREVENT WINDBLOWN DUST.

SAFFLY AT REST.

3.09 APPROVAL OF SUBGRADE

6. REMOVING TEMPORARY SHORING AND BRACING, AND SHEETING. 7. INSTALLING PERMANENT OR TEMPORARY HORIZONTAL BRACING ON HORIZONTALLY SUPPORTED 3.13 UTILITY TRENCH BACKFILL

A. PLACE AND COMPACT BEDDING COURSE ON TRENCH BOTTOMS AND WHERE INDICATED. SHAPE

BEDDING COURSE TO PROVIDE CONTINUOUS SUPPORT FOR BELLS, JOINTS, AND BARRELS OF PIPES AND FOR JOINTS, FITTINGS, AND BODIES OF CONDUITS. B. BACKFILL TRENCHES EXCAVATED UNDER FOOTINGS AND WITHIN 18 INCHES (450 MM) OF BOTTOM OF FOOTINGS; FILL WITH CONCRETE TO ELEVATION OF BOTTOM OF FOOTINGS. C. PROVIDE 4-INCH- (100-MM-) THICK, CONCRETE-BASE SLAB SUPPORT FOR PIPING OR CONDUIT LESS

THAN 30 INCHES (750 MM) BELOW SURFACE OF ROADWAYS. AFTER INSTALLING AND TESTING, COMPLETELY ENCASE PIPING OR CONDUIT IN A MINIMUM OF 4 INCHES (100 MM) OF CONCRETE BEFORE D. PLACE AND COMPACT INITIAL BACKFILL OF SUBBASE MATERIAL, FREE OF PARTICLES LARGER THAN 1 INCH (25 MM), TO A HEIGHT OF 12 INCHES (300 MM) OVER THE UTILITY PIPE OR CONDUIT.

1. CAREFULLY COMPACT MATERIAL UNDER PIPE HAUNCHES AND BRING BACKFILL EVENLY UP ON BOTH

SIDES AND ALONG THE FULL LENGTH OF UTILITY PIPING OR CONDUIT TO AVOID DAMAGE OR DISPLACEMENT OF UTILITY SYSTEM. E. COORDINATE BACKFILLING WITH UTILITIES TESTING. F. PLACE AND COMPACT FINAL BACKFILL OF SATISFACTORY SOIL MATERIAL TO FINAL SUBGRADE. G. INSTALL WARNING TAPE DIRECTLY ABOVE UTILITIES, 12 INCHES (300 MM) BELOW FINISHED GRADE,

EXCEPT 6 INCHES (150 MM) BELOW SUBGRADE UNDER PAVEMENTS AND SLABS. 3.14 FILL A. PREPARATION: REMOVE VEGETATION, TOPSOIL, DEBRIS, UNSATISFACTORY SOIL MATERIALS, OBSTRUCTIONS, AND DELETERIOUS MATERIALS FROM GROUND SURFACE BEFORE PLACING FILLS. B. PLOW, SCARIFY, BENCH, OR BREAK UP SLOPED SURFACES STEEPER THAN 1 VERTICAL TO 4

HORIZONTAL SO FILL MATERIAL WILL BOND WITH EXISTING MATERIAL C. PLACE AND COMPACT FILL MATERIAL IN LAYERS TO REQUIRED ELEVATIONS AS FOLLOWS: 1. UNDER GRASS AND PLANTED AREAS, USE SATISFACTORY SOIL MATERIAL.

2. UNDER WALKS AND PAVEMENTS, USE SATISFACTORY SOIL MATERIAL. 3. UNDER STEPS AND RAMPS, USE ENGINEERED FILL. 4. UNDER BUILDING SLABS, USE ENGINEERED FILL.

SPECIFIED DRY UNIT WEIGHT.

3.16 COMPACTION OF BACKFILLS AND FILLS

5. UNDER FOOTINGS AND FOUNDATIONS, USE ENGINEERED FILL. 3.15 MOISTURE CONTROL A. UNIFORMLY MOISTEN OR AERATE SUBGRADE AND EACH SUBSEQUENT FILL OR BACKFILL LAYER BEFORE COMPACTION TO WITHIN 2 PERCENT OF OPTIMUM MOISTURE CONTENT.

1. DO NOT PLACE BACKFILL OR FILL MATERIAL ON SURFACES THAT ARE MUDDY, FROZEN, OR CONTAIN FROST OR ICE. 2. REMOVE AND REPLACE, OR SCARIFY AND AIR-DRY, OTHERWISE SATISFACTORY SOIL MATERIAL THAT EXCEEDS OPTIMUM MOISTURE CONTENT BY 2 PERCENT AND IS TOO WET TO COMPACT TO

A. PLACE BACKFILL AND FILL MATERIALS IN LAYERS NOT MORE THAN 8 INCHES (200 MM) IN LOOSE DEPTH FOR MATERIAL COMPACTED BY HEAVY COMPACTION EQUIPMENT, AND NOT MORE THAN 4 INCHES (100 MM) IN LOOSE DEPTH FOR MATERIAL COMPACTED BY HAND-OPERATED TAMPERS. B. PLACE BACKFILL AND FILL MATERIALS EVENLY ON ALL SIDES OF STRUCTURES TO REQUIRED

ELEVATIONS, AND UNIFORMLY ALONG THE FULL LENGTH OF EACH STRUCTURE.

C. COMPACT SOIL TO NOT LESS THAN THE FOLLOWING PERCENTAGES OF MAXIMUM DRY UNIT WEIGHT ACCORDING TO ASTM D 1557: 1. UNDER STRUCTURES, BUILDING SLABS, STEPS, AND PAVEMENTS, SCARIFY AND RECOMPACT TOP 6 INCHES (150 MM) OF EXISTING SUBGRADE AND EACH LAYER OF BACKFILL OR FILL MATERIAL AT 95

2. UNDER WALKWAYS, SCARIFY AND RECOMPACT TOP 6 INCHES (150 MM) BELOW SUBGRADE AND COMPACT EACH LAYER OF BACKFILL OR FILL MATERIAL AT 95 PERCENT. 3. UNDER LAWN OR UNPAVED AREAS, SCARIFY AND RECOMPACT TOP 6 INCHES (150 MM) BELOW SUBGRADE AND COMPACT EACH LAYER OF BACKFILL OR FILL MATERIAL AT 90 PERCENT.

PERCENT. COMPACT TO 98 PERCENT FOR FILLS THICKER THAN 6 FEET DEEP.

A. GENERAL: UNIFORMLY GRADE AREAS TO A SMOOTH SURFACE, FREE FROM IRREGULAR SURFACE CHANGES. COMPLY WITH COMPACTION REQUIREMENTS AND GRADE TO CROSS SECTIONS, LINES, AND

2. CUT OUT SOFT SPOTS, FILL LOW SPOTS, AND TRIM HIGH SPOTS TO COMPLY WITH REQUIRED B. SITE GRADING: SLOPE GRADES TO DIRECT WATER AWAY FROM BUILDINGS AND TO PREVENT PONDING. FINISH SUBGRADES TO REQUIRED ELEVATIONS WITHIN THE FOLLOWING TOLERANCES:

1. PROVIDE A SMOOTH TRANSITION BETWEEN ADJACENT EXISTING GRADES AND NEW GRADES.

2. PAVEMENTS: PLUS OR MINUS 0.1 FT (13 MM). 3.18 SUBBASE AND BASE COURSES A. UNDER PAVEMENTS AND WALKS, PLACE SUBBASE COURSE ON PREPARED SUBGRADE AND AS

1. LAWN OR UNPAVED AREAS: PLUS OR MINUS 0.2 FT (25 MM).

1. PLACE BASE COURSE MATERIAL OVER SUBBASE.

PLACE MATERIALS IN A SINGLE LAYER.

2. COMPACT SUBBASE AND BASE COURSES AT OPTIMUM MOISTURE CONTENT TO REQUIRED GRADES, LINES, CROSS SECTIONS, AND THICKNESS TO NOT LESS THAN 95 PERCENT OF MAXIMUM DRY UNIT WEIGHT ACCORDING TO ASTM D 1557. 3. SHAPE SUBBASE AND BASE TO REQUIRED CROWN ELEVATIONS AND CROSS-SLOPE GRADES. 4. WHEN THICKNESS OF COMPACTED SUBBASE OR BASE COURSE IS 6 INCHES (150 MM) OR LESS,

5. WHEN THICKNESS OF COMPACTED SUBBASE OR BASE COURSE EXCEEDS 6 INCHES (150 MM), PLACE

MATERIALS IN EQUAL LAYERS, WITH NO LAYER MORE THAN 6 INCHES (150 MM) THICK OR LESS

THAN 3 INCHES (75 MM) THICK WHEN COMPACTED.

B. PAVEMENT SHOULDERS: PLACE SHOULDERS ALONG EDGES OF SUBBASE AND BASE COURSE TO PREVENT LATERAL MOVEMENT. CONSTRUCT SHOULDERS, AT LEAST 12 INCHES (300 MM) WIDE, OF SATISFACTORY SOIL MATERIALS AND COMPACT SIMULTANEOUSLY WITH EACH SUBBASE AND BASE

LAYER TO NOT LESS THAN 95 PERCENT OF MAXIMUM DRY UNIT WEIGHT ACCORDING TO ASTM D 1557. 3.19 DRAINAGE COURSE

A. UNDER SLABS-ON-GRADE, PLACE DRAINAGE COURSE ON PREPARED SUBGRADE AND AS FOLLOWS: 1. COMPACT DRAINAGE COURSE TO REQUIRED CROSS SECTIONS AND THICKNESS TO NOT LESS THAN

95 PERCENT OF MAXIMUM DRY UNIT WEIGHT ACCORDING TO ASTM D 698. 2. WHEN COMPACTED THICKNESS OF DRAINAGE COURSE IS 6 INCHES (150 MM) OR LESS, PLACE MATERIALS IN A SINGLE LAYER. 3. WHEN COMPACTED THICKNESS OF DRAINAGE COURSE EXCEEDS 6 INCHES (150 MM), PLACE

MATERIALS IN EQUAL LAYERS, WITH NO LAYER MORE THAN 6 INCHES (150 MM) THICK OR LESS THAN 3 INCHES (75 MM) THICK WHEN COMPACTED. 3.20 PROTECTION A. PROTECTING GRADED AREAS: PROTECT NEWLY GRADED AREAS FROM TRAFFIC, FREEZING, AND

EROSION. KEEP FREE OF TRASH AND DEBRIS. B. REPAIR AND REESTABLISH GRADES TO SPECIFIED TOLERANCES WHERE COMPLETED OR PARTIALLY COMPLETED SURFACES BECOME ERODED, RUTTED, SETTLED, OR WHERE THEY LOSE COMPACTION DUE TO SUBSEQUENT CONSTRUCTION OPERATIONS OR WEATHER CONDITIONS.

1. SCARIFY OR REMOVE AND REPLACE SOIL MATERIAL TO DEPTH AS DIRECTED BY ARCHITECT;

RESHAPE AND RECOMPACT. C. WHERE SETTLING OCCURS BEFORE PROJECT CORRECTION PERIOD ELAPSES, REMOVE FINISHED SURFACING, BACKFILL WITH ADDITIONAL SOIL MATERIAL, COMPACT, AND RECONSTRUCT SURFACING. 1. RESTORE APPEARANCE, QUALITY, AND CONDITION OF FINISHED SURFACING TO MATCH ADJACENT WORK, AND ELIMINATE EVIDENCE OF RESTORATION TO THE GREATEST EXTENT POSSIBLE.

3.21 DISPOSAL OF SURPLUS AND WASTE MATERIALS A. DISPOSAL: REMOVE SURPLUS SATISFACTORY SOIL AND WASTE MATERIAL, INCLUDING UNSATISFACTORY SOIL, TRASH, AND DEBRIS, AND LEGALLY DISPOSE OF IT OFF OWNER'S PROPERTY. END OF SECTION

SECTION 32 1313 CONCRETE PAVING

1.01 SECTION INCLUDES

A. CONCRETE SIDEWALKS.

1.02 RELATED REQUIREMENTS A. SECTION 31 2200 - GRADING: PREPARATION OF SITE FOR PAVING AND BASE AND PREPARATION OF

SUBSOIL AT PAVEMENT PERIMETER FOR PLANTING.

A. PRODUCT DATA: PROVIDE DATA ON JOINT FILLER, ADMIXTURES, AND CURING COMPOUND.

2.03 REINFORCEMENT

2.01 PAVING ASSEMBLIES

A. COMPLY WITH APPLICABLE REQUIREMENTS OF ACI 301. 2.02 FORM MATERIALS A. FORM MATERIALS: AS SPECIFIED IN SECTION 03 1000, COMPLY WITH ACI 301. B. WOOD FORM MATERIAL, PROFILED TO SUIT CONDITIONS.

A. REINFORCING STEEL: ASTM A615/A615M, GRADE 80 (80,000 PSI) (550 MPA) YIELD STRENGTH; DEFORMED BILLET STEEL BARS; UNFINISHED. B. DOWELS: ASTM A615/A615M, GRADE 40 - 40,000 PSI (280 MPA) YIELD STRENGTH; DEFORMED BILLET

STEEL BARS; UNFINISHED FINISH. 2.04 CONCRETE MATERIALS A. OBTAIN CEMENTITIOUS MATERIALS FROM SAME SOURCE THROUGHOUT. B. CEMENT: ASTM C150/C150M, NORMAL - TYPE I PORTLAND CEMENT, GRAY COLOR.

C. FINE AND COARSE MIX AGGREGATES: ASTM C33/C33M.

D. FLY ASH: ASTM C618, CLASS C OR F. E. WATER: CLEAN, AND NOT DETRIMENTAL TO CONCRETE. 2.05 CONCRETE MIX DESIGN A. PROPORTIONING NORMAL WEIGHT CONCRETE: COMPLY WITH ACI 211.1 RECOMMENDATIONS.

1. COMPRESSIVE STRENGTH, WHEN TESTED IN ACCORDANCE WITH ASTM C39/C39M AT 28 DAYS; 3000 2. FLY ASH CONTENT: MAXIMUM 15 PERCENT OF CEMENTITIOUS MATERIALS BY WEIGHT.

3. WATER-CEMENT RATIO: MAXIMUM 40 PERCENT BY WEIGHT.

4. TOTAL AIR CONTENT: 4 PERCENT, DETERMINED IN ACCORDANCE WITH ASTM C173/C173M. A. TRANSIT MIXERS: COMPLY WITH ASTM C94/C94M.

B. CONCRETE PROPERTIES:

A. VERIFY COMPACTED SUBGRADE IS ACCEPTABLE AND READY TO SUPPORT PAVING AND IMPOSED LOADS. B. VERIFY GRADIENTS AND ELEVATIONS OF BASE ARE CORRECT.

A. MOISTEN BASE TO MINIMIZE ABSORPTION OF WATER FROM FRESH CONCRETE. B. NOTIFY ARCHITECT MINIMUM 24 HOURS PRIOR TO COMMENCEMENT OF CONCRETING OPERATIONS.

A. PLACE AND SECURE FORMS TO CORRECT LOCATION, DIMENSION, PROFILE, AND GRADIENT. B. ASSEMBLE FORMWORK TO PERMIT EASY STRIPPING AND DISMANTLING WITHOUT DAMAGING C. PLACE JOINT FILLER VERTICAL IN POSITION, IN STRAIGHT LINES. SECURE TO FORMWORK DURING

CONCRETE PLACEMENT. 3.04 REINFORCEMENT A. PLACE REINFORCEMENT AS INDICATED. 3.05 COLD AND HOT WEATHER CONCRETING

B. DO NOT PLACE CONCRETE WHEN BASE SURFACE IS WET.

A. FOLLOW RECOMMENDATIONS OF ACI 305R WHEN CONCRETING DURING HOT WEATHER. B. FOLLOW RECOMMENDATIONS OF ACI 306R WHEN CONCRETING DURING COLD WEATHER. 3.06 PLACING CONCRETE A. PLACE CONCRETE IN ACCORDANCE WITH ACI 304R.

C. PLACE CONCRETE CONTINUOUSLY OVER THE FULL WIDTH OF THE PANEL AND BETWEEN PREDETERMINED CONSTRUCTION JOINTS. DO NOT BREAK OR INTERRUPT SUCCESSIVE POURS SUCH THAT COLD JOINTS OCCUR. 3.07 JOINTS

FROM VERTICAL SURFACES AND OTHER COMPONENTS. 1. FORM JOINTS WITH JOINT FILLER EXTENDING FROM BOTTOM OF PAVEMENT TO WITHIN 1/2 INCH (13 SECURE TO RESIST MOVEMENT BY WET CONCRETE.

A. PLACE 3/8 INCH (10 MM) WIDE EXPANSION JOINTS AT 30 FOOT INTERVALS AND TO SEPARATE PAVING

A. SIDEWALK PAVING: LIGHT BROOM, TEXTURE PERPENDICULAR TO DIRECTION OF TRAVEL WITH TROWELED AND RADIUSED EDGE 1/4 INCH RADIUS (6 MM RADIUS). 3.09 TOLERANCES A. MAXIMUM VARIATION OF SURFACE FLATNESS: 1/4 INCH (6 MM) IN 10 FT (3 M).

B. PROVIDE SCORED JOINTS TO MATCH EXISTING CONCRETE TO TIE INTO.

B. MAXIMUM VARIATION FROM TRUE POSITION: 1/4 INCH (6 MM).

TEMPERATURE, AND TEST SAMPLES TAKEN.

3.10 FIELD QUALITY CONTROL

A. IMMEDIATELY AFTER PLACEMENT, PROTECT PAVEMENT FROM PREMATURE DRYING, EXCESSIVE HOT OR COLD TEMPERATURES, AND MECHANICAL INJURY. B. DO NOT PERMIT PEDESTRIAN TRAFFIC OVER PAVEMENT FOR 7 DAYS MINIMUM AFTER FINISHING.

END OF SECTION

A. MAINTAIN RECORDS OF PLACED CONCRETE ITEMS. RECORD DATE, LOCATION OF POUR, QUANTITY, AIR

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

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PROJECT #: J. CLEMENTS DRAWN BY: CHECKED BY:

823278

PART 2 PRODUCTS

2.01 FORMWORK - GENERAL

- A. PROVIDE CONCRETE FORMS, ACCESSORIES, SHORING, AND BRACING AS REQUIRED TO
- ACCOMPLISH CAST-IN-PLACE CONCRETE WORK. B. DESIGN AND CONSTRUCT CONCRETE THAT COMPLIES WITH DESIGN WITH RESPECT TO
- SHAPE, LINES, AND DIMENSIONS. C. COMPLY WITH APPLICABLE STATE AND LOCAL CODES WITH RESPECT TO DESIGN,
- FABRICATION, ERECTION, AND REMOVAL OF FORMWORK.

PART 3 EXECUTION 3.01 EXAMINATION

A. VERIFY LINES, LEVELS AND CENTERS BEFORE PROCEEDING WITH FORMWORK. ENSURE THAT DIMENSIONS AGREE WITH DRAWINGS.

3.02 ERECTION - FORMWORK

- A. ERECT FORMWORK, SHORING AND BRACING TO ACHIEVE DESIGN REQUIREMENTS, IN ACCORDANCE WITH REQUIREMENTS OF ACI SPEC-301
- B. PROVIDE BRACING TO ENSURE STABILITY OF FORMWORK. SHORE OR STRENGTHEN FORMWORK SUBJECT TO OVERSTRESSING BY CONSTRUCTION LOADS.

3.03 APPLICATION - FORM RELEASE AGENT

A. APPLY FORM RELEASE AGENT ON FORMWORK IN ACCORDANCE WITH MANUFACTURER'S

3.04 INSERTS, EMBEDDED PARTS, AND OPENINGS A. LOCATE AND SET IN PLACE ITEMS THAT WILL BE CAST DIRECTLY INTO CONCRETE.

B. COORDINATE WITH WORK OF OTHER SECTIONS IN FORMING AND PLACING OPENINGS, SLOTS, REGLETS, RECESSES, SLEEVES, BOLTS, ANCHORS, OTHER INSERTS, AND COMPONENTS OF OTHER WORK.

3.05 FORM REMOVAL

A. DO NOT REMOVE FORMS OR BRACING UNTIL CONCRETE HAS GAINED SUFFICIENT STRENGTH TO CARRY ITS OWN WEIGHT AND IMPOSED LOADS.

END OF SECTION

SECTION 032000 CONCRETE REINFORCING

SCHEDULES, SHAPES OF BENT BARS, SPACING OF BARS, AND LOCATION OF SPLICES.

PART 1 GENERAL

A. SHOP DRAWINGS: COMPLY WITH REQUIREMENTS OF ACI MNL-66 INCLUDE BAR

1.02 QUALITY ASSURANCE

A. PERFORM WORK OF THIS SECTION IN ACCORDANCE WITH ACI SPEC-301.

PART 2 PRODUCTS

2.01 REINFORCEMENT

A. REINFORCING STEEL: ASTM A615/A615M, GRADE 60 (60,000 PSI) (420 MPA).

- DEFORMED BILLET-STEEL BARS.

B. STEEL WELDED WIRE REINFORCEMENT (WWR): PLAIN TYPE; ASTM A1064/A1064M.

2.02 RE-BAR SPLICING:

- A. COUPLER SYSTEMS: MECHANICAL DEVICES FOR SPLICING REINFORCING BARS.
- 1. COMPLY WITH ACI CODE-318 STEEL REINFORCING DESIGN STRENGTH REQUIREMENTS FOR SPLICES IN TENSION AND COMPRESSION.
- B. DOWEL BAR SPLICER WITH DOWEL-INS: MECHANICAL DEVICES FOR SPLICING REINFORCING
- 1. COMPLY WITH ACI CODE-318 STEEL REINFORCING DESIGN STRENGTH REQUIREMENTS FOR SPLICES IN TENSION AND COMPRESSION.
- C. TAPER TIE HOLE PLUG: MECHANICAL DEVICE FOR PLUGGING TIE HOLES; ANCHORS OPTIONAL
- FLUSH OR RECESSED GROUT.
- D. GROUT: CEMENTITIOUS, NON-METALLIC, NON-SHRINK GROUT FOR USE WITH MANUFACTURER'S GROUT SLEEVE REINFORCING BAR COUPLER SYSTEM.

2.03 FABRICATION

- A. FABRICATE CONCRETE REINFORCING IN ACCORDANCE WITH CRSI (DA4) MANUAL OF
- B. FABRICATE AND HANDLE EPOXY-COATED REINFORCING IN ACCORDANCE WITH ASTM
- D3963/D3963M. C. LOCATE REINFORCING SPLICES NOT INDICATED ON DRAWINGS AT POINT OF MINIMUM

PART 3 EXECUTION

- 3.01 PLACEMENT
- A. PLACE, SUPPORT AND SECURE REINFORCEMENT AGAINST DISPLACEMENT. DO NOT DEVIATE FROM REQUIRED POSITION.
- B. DO NOT DISPLACE OR DAMAGE VAPOR BARRIER.
- C. COMPLY WITH APPLICABLE CODE FOR CONCRETE COVER OVER REINFORCEMENT.

END OF SECTION

SECTION 033000 CAST-IN-PLACE CONCRETE

PART 1 GENERAL

1.01 SUBMITTALS

- A. TEST REPORTS: SUBMIT REPORT FOR EACH TEST OR SERIES OF TESTS SPECIFIED. 1.02 QUALITY ASSURANCE
- A. PERFORM WORK OF THIS SECTION IN ACCORDANCE WITH ACI SPEC-301 AND ACI CODE-318.
- B. FOLLOW RECOMMENDATIONS OF ACI PRC-305 WHEN CONCRETING DURING HOT WEATHER.
- C. FOLLOW RECOMMENDATIONS OF ACI PRC-306 WHEN CONCRETING DURING COLD WEATHER. 1.03 WARRANTY

PART 2 PRODUCTS 2.01 FORMWORK

- A. FORM MATERIALS: CONTRACTOR'S CHOICE OF STANDARD PRODUCTS WITH SUFFICIENT STRENGTH TO WITHSTAND HYDROSTATIC HEAD WITHOUT DISTORTION IN EXCESS OF PERMITTED TOLERANCES.
- 1. EARTH CUTS: DO NOT USE EARTH CUTS AS FORMS FOR VERTICAL SURFACES. NATURAL ROCK FORMATIONS THAT MAINTAIN A STABLE VERTICAL EDGE MAY BE USED AS SIDE

2.02 REINFORCEMENT MATERIALS

A. REINFORCING STEEL: ASTM A615/A615M, GRADE 60 (60,000 PSI) (420 MPA).

TYPE: DEFORMED BILLET-STEEL BARS. 2.03 CONCRETE MATERIALS

A. FINE AGGREGATE: ASTM C33/C33M.

ADHERENT COATINGS.

- B. COURSE AGGREGATE: ASTM C33/C33M.
- 1. ACQUIRE AGGREGATES FOR ENTIRE PROJECT FROM SAME SOURCE. 2. NORMAL WEIGHT AGGREGATE: ASTM C33/C33M, GRAVEL OR CRUSHED STONE SUITABLY WASHED AND SCREENED, AND SHALL CONSIST OF HARD, DURABLE PARTICLES WITHOUT

- 3. LIGHTWEIGHT AGGREGATE: ASTM C330/C330M, SUITABLY PROCESSED, WASHED AND SCREENED, AND SHALL CONSIST OF DURABLE PARTICLES WITHOUT ADHERENT COATINGS.
- C. FLY ASH: ASTM C618, CLASS C OR F.
- A. DO NOT USE CHEMICALS THAT WILL RESULT IN SOLUBLE CHLORIDE IONS IN EXCESS OF 0.1
- PERCENT BY WEIGHT OF CEMENT.

B. AIR ENTRAINMENT ADMIXTURE: ASTM C260/C260M.

2.05 CURING MATERIALS A. NO CURING OR HARDENING AGENTS: NO CURING AGENTS, SEALERS, OR HARDENER SHALL BE USED TO AID IN CURING OF CONCRETE. IF PRESENT THESE COMPOUNDS MUST BE REMOVED BY SHOT BLASTING OR SCARIFYING PRIOR TO INSTALLATION OF SYNTHETIC SURFACE. CHEMICAL CURING AGENTS, SEALER, OR HARDENERS MAY HAVE AN ADVERSE

EFFECT ON THE ADHESION OF THE SYNTHETIC TRACK SURFACE TO THE CONCRETE BASE.

A. ADMIXTURES: ADD ACCEPTABLE ADMIXTURES AS RECOMMENDED IN ACI PRC-211.1 AND AT RATES RECOMMENDED OR REQUIRED BY MANUFACTURER.

- B. NORMAL WEIGHT CONCRETE: 1. COMPRESSIVE STRENGTH, WHEN TESTED IN ACCORDANCE WITH ASTM C39/C39M AT 28
- DAYS: AS INDICATED ON DRAWINGS.
- 2. FLY ASH CONTENT: MAXIMUM 20 PERCENT OF CEMENTITIOUS MATERIALS BY WEIGHT.
- WATER-CEMENT RATIO: AS INDICATED ON STRUCTURAL DRAWINGS. 4. TOTAL AIR CONTENT: AS INDICATED ON STRUCTURAL DRAWINGS.
- MAXIMUM SLUMP: 3-1/2 INCHES (89 MM) AT POINT OF PLACEMENT.

6. NO WATER SHALL BE ADDED AT JOB SITE.

PART 3 EXECUTION

3.01 PREPARATION 3.02 PLACING CONCRETE

- A. PLACE CONCRETE IN ACCORDANCE WITH ACI PRC-304.
- B. PLACE 4" MINIMUM CONCRETE OVER 4 INCHES OF 3/4 INCH CRUSHED AGGREGATE BASE COURSE.
- C. LOCATE AND INSTALL CONTRACTION, CONSTRUCTION, ISOLATION, AND EXPANSION JOINTS AS INDICATED OR REQUIRED.
- D. PLACE CONCRETE IN A CONTINUOUS OPERATION WITHIN PLANNED JOINTS OR SECTIONS. DO NOT ADD WATER TO ADJUST SLUMP.
- E. PLACE PRE-CAST CONCRETE CATCH BASIN AS INDICATED AND INSTALL ACCORDING TO ASTM C891. CONNECT TO EXISTING DRAINAGE SYSTEM IF ANY. VERIFY EXISTING CONDITIONS AND REPORT FINDINGS TO ARCHITECT.

3.03 CONCRETE FINISHING

A. FLOAT SURFACES TO TRUE PLANES WITHIN A TOLERANCE OF 1/4 INCH IN 10 FEET (1:480) AND

MEDIUM-TO-FINE-TEXTURED BROOM FINISH. B. TOOL EDGES AND JOINTS TO A RADIUS OF 1/4 INCH (6 MM)

3.04 CURING AND PROTECTION

A. COMPLY WITH REQUIREMENTS OF ACI PRC-308. IMMEDIATELY AFTER PLACEMENT, PROTECT CONCRETE FROM PREMATURE DRYING, EXCESSIVELY HOT OR COLD TEMPERATURES, AND MECHANICAL INJURY.

END OF SECTION

SECTION 034500 PRECAST ARCHITECTURAL CONCRETE

- A. PRODUCT DATA: MANUFACTURER'S INFORMATION ON ACCESSORY PRODUCTS, INCLUDING PIGMENTS, ADMIXTURES, INSERTS, PLATES, ETC.
- B. SHOP DRAWINGS: INDICATE LAYOUT, UNIT LOCATIONS, CONFIGURATION, UNIT IDENTIFICATION MARKS, REINFORCEMENT, INTEGRAL INSULATION, INSULATED PANEL SYSTEM CONNECTORS, CONNECTION DETAILS, SUPPORT ITEMS, LOCATION OF LIFTING DEVICES, DIMENSIONS, OPENINGS, AND RELATIONSHIP TO ADJACENT MATERIALS. PROVIDE ERECTION
- C. SAMPLES: SUBMIT TWO 14" LONG, 12" BY 12" INCH IN SIZE, ILLUSTRATING SURFACE FINISH, COLOR AND TEXTURE.

PART 2 PRODUCTS

2.01 PRECAST UNITS, GENERAL

- A. PRECAST ARCHITECTURAL CONCRETE UNITS: COMPLY WITH PCI MNL-120, PCI MNL-122, PCI MNL-123, PCI MNL-135, AND ACI CODE-318.
- 1. CONCRETE FACE MIX: MINIMUM 5000 PSI (34 MPA), 28 DAY STRENGTH, AIR ENTRAINED TO 5 TO 7 PERCENT; COMPLY WITH ACI SPEC-301.

2.02 REINFORCEMENT

A. REINFORCING STEEL: ASTM A615/A615M, GRADE 60 (60,000 PSI) (420 MPA).

1. DEFORMED BILLET-STEEL BARS.

- 2.03 CONCRETE MATERIALS A. CEMENT: ASTM C150/C150M, TYPE I - NORMAL PORTLAND TYPE.
- B. COLOR ADDITIVES: PURE, CONCENTRATED MINERAL PIGMENTS SPECIFICALLY INTENDED FOR MIXING INTO CONCRETE AND COMPLYING WITH ASTM C979/C979M.
- C. WATER: ASTM C1602/C1602M; CLEAN, POTABLE, AND NOT DETRIMENTAL TO CONCRETE. D. AIR ENTRAINMENT ADMIXTURE: ASTM C260/C260M.

2.04 SUPPORT DEVICES

- A. CONNECTING AND SUPPORT DEVICES; ANCHORS AND INSERTS: ASTM A36/A36M STEEL; HOT-DIP GALVANIZED IN ACCORDANCE WITH ASTM A153/A153M.
- 1. CLEAN SURFACES OF RUST, SCALE, GREASE, AND FOREIGN MATTER.

2.05 FABRICATION

- A. FABRICATE IN COMPLIANCE WITH PCI MNL-117 AND PCI MNL-135.
- B. MAINTAIN CONSISTENT QUALITY DURING MANUFACTURE. C. FABRICATE CONNECTING DEVICES, PLATES, ANGLES, ITEMS FIT TO STEEL FRAMING MEMBERS, INSERTS, BOLTS, AND ACCESSORIES. FABRICATE TO PERMIT INITIAL PLACEMENT AND FINAL
- D. EMBED REINFORCING STEEL, ANCHORS, INSERTS PLATES, ANGLES, AND OTHER CAST-IN

PART 3 EXECUTION

3.01 ERECTION

- A. ERECT UNITS WITHOUT DAMAGE TO SHAPE OR FINISH. REPLACE OR REPAIR DAMAGED
- B. ERECT UNITS LEVEL AND PLUMB WITHIN ALLOWABLE TOLERANCES.

C. FASTEN UNITS IN PLACE WITH MECHANICAL CONNECTIONS.

SECTION 042500

END OF SECTION

UNIT MASONRY ASSEMBLIES

1.01 SUBMITTALS

PRE-FACED CONCRETE MASONRY UNITS.

A. PRODUCT DATA: FOR EACH TYPE OF PRODUCT INDICATED. B. SAMPLES FOR VERIFICATION: FOR EACH TYPE AND COLOR OF THE FOLLOWING:

- C. MATERIAL CERTIFICATES: INCLUDE STATEMENTS OF MATERIAL PROPERTIES INDICATING COMPLIANCE WITH REQUIREMENTS INCLUDING COMPLIANCE WITH STANDARDS AND TYPE
- 2. CEMENTITIOUS MATERIALS. INCLUDE BRAND, TYPE, AND NAME OF MANUFACTURER.
- 3. PREBLENDED, DRY MORTAR MIXES. INCLUDE DESCRIPTION OF TYPE AND PROPORTIONS

DESIGNATIONS WITHIN STANDARDS. PROVIDE FOR EACH TYPE AND SIZE OF THE FOLLOWING:

- OF INGREDIENTS.
- 4. GROUT MIXES. INCLUDE DESCRIPTION OF TYPE AND PROPORTIONS OF INGREDIENTS.
- D. MIX DESIGNS: FOR EACH TYPE OF MORTAR AND GROUT. INCLUDE DESCRIPTION OF TYPE AND PROPORTIONS OF INGREDIENTS.
- 1. INCLUDE TEST REPORTS, PER ASTM C 780, FOR MORTAR MIXES REQUIRED TO COMPLY WITH PROPERTY SPECIFICATION.
- E. STATEMENT OF COMPRESSIVE STRENGTH OF MASONRY: FOR EACH COMBINATION OF MASONRY UNIT TYPE AND MORTAR TYPE, PROVIDE STATEMENT OF AVERAGE NET-AREA COMPRESSIVE STRENGTH OF MASONRY UNITS, MORTAR TYPE, AND RESULTING NET-AREA

- A. SOURCE LIMITATIONS FOR MASONRY UNITS: OBTAIN EXPOSED MASONRY UNITS OF A UNIFORM TEXTURE AND COLOR, OR A UNIFORM BLEND WITHIN THE RANGES ACCEPTED FOR THESE CHARACTERISTICS, THROUGH ONE SOURCE FROM A SINGLE MANUFACTURER FOR
- B. SOURCE LIMITATIONS FOR MORTAR MATERIALS: OBTAIN MORTAR INGREDIENTS OF A UNIFORM QUALITY, INCLUDING COLOR FOR EXPOSED MASONRY, FROM A SINGLE MANUFACTURER FOR EACH CEMENTITIOUS COMPONENT AND FROM ONE SOURCE OR

PRODUCER FOR EACH AGGREGATE

- 1.03 PROJECT CONDITIONS A. PROTECTION OF MASONRY: DURING CONSTRUCTION, COVER TOPS OF WALLS, PROJECTIONS, AND SILLS WITH WATERPROOF SHEETING AT END OF EACH DAY'S WORK. COVER PARTIALLY
- B. STAIN PREVENTION: PREVENT GROUT, MORTAR, AND SOIL FROM STAINING THE FACE OF MASONRY TO BE LEFT EXPOSED OR PAINTED. IMMEDIATELY REMOVE GROUT, MORTAR, AND SOIL THAT COME IN CONTACT WITH SUCH MASONRY INCLUDING ANY MASONRY CUTTING OR
- DRILLING RESIDUE BY OTHER TRADES. C. COLD-WEATHER REQUIREMENTS: DO NOT USE FROZEN MATERIALS OR MATERIALS MIXED OR COATED WITH ICE OR FROST. DO NOT BUILD ON FROZEN SUBSTRATES. REMOVE AND REPLACE UNIT MASONRY DAMAGED BY FROST OR BY FREEZING CONDITIONS. COMPLY WITH
- D. HOT-WEATHER REQUIREMENTS: COMPLY WITH HOT-WEATHER CONSTRUCTION

REQUIREMENTS CONTAINED IN ACI 530.1/ASCE 6/TMS 602.

PART 2 - PRODUCTS 2.01 MASONRY UNITS, GENERAL

A. DEFECTIVE UNITS: REFERENCED MASONRY UNIT STANDARDS MAY ALLOW A CERTAIN PERCENTAGE OF UNITS TO EXCEED TOLERANCES AND TO CONTAIN CHIPS, CRACKS, OR OTHER DEFECTS EXCEEDING LIMITS STATED IN THE STANDARD. DO NOT USES UNITS WHERE SUCH DEFECTS, INCLUDING DIMENSIONS THAT VARY FROM SPECIFIED DIMENSIONS BY MORE THAN STATED TOLERANCES, WILL BE EXPOSED IN THE COMPLETED WORK OR WILL IMPAIR

- A. AMCOR PRODUCTS MANUFACTURED BY OLD CASTLE IN IDAHO FALLS ARE NOT ACCEPTABLE PRODUCTS WITHOUT APPROVAL OF ARCHITECT PRIOR TO BIDDING. NO PUMIS BLOCK.
- 1. PROVIDE SPECIAL SHAPES FOR LINTELS, CORNERS, JAMBS, SASHES, MOVEMENT JOINTS,
- 2. PROVIDE BULLNOSE UNITS FOR OUTSIDE CORNERS, UNLESS OTHERWISE INDICATED. C. INTEGRAL WATER REPELLENT: PROVIDE UNITS MADE WITH INTEGRAL WATER REPELLENT FOR
- EXPOSED UNITS AND WHERE INDICATEL 1. INTEGRAL WATER REPELLENT: LIQUID POLYMERIC, INTEGRAL WATER-REPELLENT ADMIXTURE THAT DOES NOT REDUCE FLEXURAL BOND STRENGTH. UNITS MADE WITH INTEGRAL WATER REPELLENT, WHEN TESTED AS A WALL ASSEMBLY MADE WITH MORTAR
- ACCORDING TO ASTM E 514. WITH TEST PERIOD EXTENDED TO 24 HOURS, SHOW NO VISIBLE WATER OR LEAKS ON THE BACK OF TEST SPECIMEN.
- D. CONCRETE MASONRY UNITS: ASTM C 90. 1. UNIT COMPRESSIVE STRENGTH: PROVIDE UNITS WITH MINIMUM AVERAGE NET-AREA COMPRESSIVE STRENGTH OF 1900 PSI (13100.04 KPA).

CONTAINING INTEGRAL WATER-REPELLENT MANUFACTURER'S MORTAR ADDITIVE

- 2. WEIGHT CLASSIFICATION: MEDIUM WEIGHT.
- 3. SIZE (WIDTH): MANUFACTURED TO DIMENSIONS 3/8 INCH (9.52 MM) LESS THAN NOMINAL DIMENSIONS. ASTM C 90 REQUIRES AT LEAST FOUR UNITS FOR SAMPLE, REPRESENTING THE RANGE OF COLOR AND TEXTURE PERMITTED.
- E. DECORATIVE CONCRETE MASONRY UNITS: ASTM C90. 1. UNIT COMPRESSIVE STRENGTH: PROVIDE UNITS WITH MINIMUM AVERAGE NET-AREA
- UNITS" PARAGRAPH ABOVE. 4. PATTERN AND TEXTURE:
- a. STANDARD PATTERN, SPLIT-FACE FINISH. 5. COLORS: AS SELECTED BY ARCHITECT FROM MANUFACTURER'S FULL RANGE. INCLUDE COLOR RANGE VARIATION AND PERCENT OF MIX IN MOCK UP EQUIVALENT TO BUEHNER

2.03 MORTAR AND GROUT MATERIALS

- A. PORTLAND CEMENT: ASTM C 150, TYPE I OR II, EXCEPT TYPE III MAY BE USED FOR COLD-WEATHER CONSTRUCTION. PROVIDE NATURAL COLOR OR WHITE CEMENT AS
- B. HYDRATED LIME: ASTM C 207, TYPE S.
- C. PORTLAND CEMENT-LIME MIX: PACKAGED BLEND OF PORTLAND CEMENT COMPLYING WITH ASTM C 150, TYPE I OR TYPE III, AND HYDRATED LIME COMPLYING WITH ASTM C 207, TYPE S.
- E. MORTAR PIGMENTS: NATURAL AND SYNTHETIC IRON OXIDES AND CHROMIUM OXIDES, COMPOUNDED FOR USE IN MORTAR MIXES. USE ONLY PIGMENTS WITH A RECORD OF
- SATISFACTORY PERFORMANCE IN MASONRY MORTAR. RANGE OF ACCEPTABLE MORTAR COLOR VARIATION NOT TO EXCEED APPROVED MOCK UP. F. AGGREGATE FOR MORTAR: ASTM C 144.
- 1. COLORED-MORTAR AGGREGATES: NATURAL SAND OR CRUSHED STONE OF COLOR NECESSARY TO PRODUCE REQUIRED MORTAR COLOR.
- H. EPOXY POINTING MORTAR: ASTM C 395, EPOXY-RESIN-BASED MATERIAL FORMULATED FOR USE AS POINTING MORTAR FOR STRUCTURAL-CLAY TILE FACING UNITS (AND APPROVED FOR SUCH USE BY MANUFACTURER OF UNITS); IN COLOR INDICATED OR, IF NOT OTHERWISE INDICATED, AS SELECTED BY ARCHITECT FROM MANUFACTURER'S COLORS.

I. REFRACTORY MORTAR MIX: GROUND FIRECLAY OR NON-WATER-SOLUBLE, CALCIUM

- ALUMINATE, MEDIUM-DUTY REFRACTORY MORTAR THAT PASSES ASTM C 199 TEST; OR AN EQUIVALENT PRODUCT ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION. J. COLD-WEATHER ADMIXTURE: NONCHLORIDE, NONCORROSIVE, ACCELERATING ADMIXTURE
- FOR USE WITH CONCRETE MASONRY UNITS COMPATIBLE WITH SPECIFIED SEALERS, CONTAINING INTEGRAL WATER REPELLENT BY SAME MANUFACTURER.

A. UNCOATED STEEL REINFORCING BARS: ASTM A 615/A 615M, GRADE 60 (GRADE 420).

2.05 MISCELLANEOUS ANCHORS

2.04 REINFORCEMENT

- A. ANCHOR BOLTS: HEADED STEEL BOLTS COMPLYING WITH ASTM A 307, GRADE A (ASTM F 568M, PROPERTY CLASS 4.6); WITH ASTM A 563 (ASTM A 563M) HEX NUTS AND, WHERE INDICATED, FLAT WASHERS; HOT-DIP GALVANIZED TO COMPLY WITH ASTM A 153/A 153M, CLASS C; OF DIMENSIONS INDICATED.
- 1. CORROSION PROTECTION: CARBON-STEEL COMPONENTS ZINC PLATED TO COMPLY WITH ASTM B 633, CLASS FE/ZN 5 (5 MICRONS) FOR CLASS SC 1 SERVICE CONDITION (MILD).

2.06 MISCELLANEOUS MASONRY ACCESSORIES

- A. COMPRESSIBLE FILLER: PREMOLDED FILLER STRIPS COMPLYING WITH ASTM D 1056, GRADE 2A1; COMPRESSIBLE UP TO 35 PERCENT; OF WIDTH AND THICKNESS INDICATED;
- FORMULATED FROM NEOPRENE, URETHANE OR PVC. B. REINFORCING BAR POSITIONERS: WIRE UNITS DESIGNED TO FIT INTO MORTAR BED JOINTS SPANNING MASONRY UNIT CELLS WITH LOOPS FOR HOLDING REINFORCING BARS IN CENTER OF CELLS. UNITS ARE FORMED FROM 0.142-INCH (3.6-MM) STEEL WIRE, HOT-DIP GALVANIZED AFTER FABRICATION. PROVIDE UNITS WITH EITHER TWO LOOPS OR FOUR LOOPS AS NEEDED FOR NUMBER OF BARS INDICATED.

2.07 MASONRY CLEANERS

A. PROPRIETARY ACIDIC CLEANER: MANUFACTURER'S STANDARD-STRENGTH CLEANER DESIGNED FOR REMOVING MORTAR/GROUT STAINS, EFFLORESCENCE, AND OTHER NEW CONSTRUCTION STAINS FROM NEW MASONRY WITHOUT DISCOLORING OR DAMAGING MASONRY SURFACES. USE PRODUCT EXPRESSLY APPROVED FOR INTENDED USE BY

CLEANER MANUFACTURER AND MANUFACTURER OF MASONRY UNITS BEING CLEANED.

2.08 MORTAR AND GROUT MIXES A. GENERAL: DO NOT USE ADMIXTURES, INCLUDING PIGMENTS, AIR-ENTRAINING AGENTS,

- ACCELERATORS, RETARDERS, WATER-REPELLENT AGENTS, ANTIFREEZE COMPOUNDS, OR OTHER ADMIXTURES, UNLESS OTHERWISE INDICATED. DO NOT USE CALCIUM CHLORIDE IN MORTAR OR GROUT.
- 2. LIMIT CEMENTITIOUS MATERIALS IN MORTAR TO PORTLAND CEMENT, MORTAR CEMENT, 3. LIMIT CEMENTITIOUS MATERIALS IN MORTAR FOR EXTERIOR AND REINFORCED MASONRY
- TO PORTLAND CEMENT, MORTAR CEMENT, AND LIME. 4. ADD COLD-WEATHER ADMIXTURE (IF USED) AT SAME RATE FOR ALL MORTAR THAT WILL
- BE EXPOSED TO VIEW, REGARDLESS OF WEATHER CONDITIONS, TO ENSURE THAT MORTAR B. PREBLENDED, DRY MORTAR MIX: FURNISH DRY MORTAR INGREDIENTS IN FORM OF A PREBLENDED MIX. MEASURE QUANTITIES BY WEIGHT TO ENSURE ACCURATE PROPORTIONS,

TYPE IS INDICATED OR NEEDED TO PROVIDE REQUIRED COMPRESSIVE STRENGTH OF

- AND THOROUGHLY BLEND INGREDIENTS BEFORE DELIVERING TO PROJECT SITE. C. MORTAR FOR UNIT MASONRY: AS NOTED ON STRUCTURAL DRAWINGS, PER STRUCTURAL NOTES, COMPLY WITH ASTM C 270, BIA TECHNICAL NOTES 8A PROPORTION SPECIFICATION. PROVIDE THE FOLLOWING TYPES OF MORTAR FOR APPLICATIONS STATED UNLESS ANOTHER
- D. MORTAR FOR UNIT MASONRY: COMPLY WITH ASTM C 270, BIA TECHNICAL NOTES 8A PROPERTY SPECIFICATION. PROVIDE THE FOLLOWING TYPES OF MORTAR FOR APPLICATIONS STATED UNLESS ANOTHER TYPE IS INDICATED OR NEEDED TO PROVIDE REQUIRED
- COMPRESSIVE STRENGTH OF MASONRY E. PIGMENTED MORTAR: USE COLORED CEMENT PRODUCT OR SELECT AND PROPORTION PIGMENTS WITH OTHER INGREDIENTS TO PRODUCE COLOR REQUIRED. DO NOT ADD
- PIGMENTS TO COLORED CEMENT PRODUCTS. PIGMENTS SHALL NOT EXCEED 10 PERCENT OF PORTLAND CEMENT BY WEIGHT.
- 2. PIGMENTS SHALL NOT EXCEED 5 PERCENT OF MASONRY CEMENT BY WEIGHT. 3. MIX TO MATCH ARCHITECT'S SAMPLE.

- PART 3 EXECUTION A. EXAMINE CONDITIONS. WITH INSTALLER PRESENT. FOR COMPLIANCE WITH REQUIREMENTS
- FOR INSTALLATION TOLERANCES AND OTHER CONDITIONS AFFECTING PERFORMANCE OF
- 1. FOR THE RECORD, PREPARE WRITTEN REPORT, ENDORSED BY INSTALLER, LISTING CONDITIONS DETRIMENTAL TO PERFORMANCE OF WORK.
- 2. VERIFY THAT FOUNDATIONS ARE WITHIN TOLERANCES SPECIFIED. 3. VERIFY THAT REINFORCING DOWELS ARE PROPERLY PLACED.
- B. BEFORE INSTALLATION, EXAMINE ROUGH-IN AND BUILT-IN CONSTRUCTION FOR PIPING SYSTEMS TO VERIFY ACTUAL LOCATIONS OF PIPING CONNECTIONS.
- C. PROCEED WITH INSTALLATION ONLY AFTER UNSATISFACTORY CONDITIONS HAVE BEEN
- D. SORT OUT EXCESSIVELY CHIPPED OR DAMAGED UNITS AND REMOVE FROM SITE. 3.02 INSTALLATION, GENERAL A. USE FULL-SIZE UNITS WITHOUT CUTTING IF POSSIBLE. IF CUTTING IS REQUIRED TO PROVIDE A CONTINUOUS PATTERN OR TO FIT ADJOINING CONSTRUCTION, CUT UNITS WITH
- MOTOR-DRIVEN SAWS; PROVIDE CLEAN, SHARP, UNCHIPPED EDGES. ALLOW UNITS TO DRY BEFORE LAYING UNLESS WETTING OF UNITS IS SPECIFIED. INSTALL CUT UNITS WITH CUT SURFACES AND, WHERE POSSIBLE, CUT EDGES CONCEALED. B. SELECT AND ARRANGE UNITS FOR EXPOSED UNIT MASONRY TO PRODUCE A UNIFORM BLEND
- OF COLORS AND TEXTURES. C. COMPLY WITH CONSTRUCTION TOLERANCES IN ACI 530.1/ASCE 6/TMS 602 AND WITH THE
- 1. FOR CONSPICUOUS VERTICAL LINES, SUCH AS EXTERNAL CORNERS, DOOR JAMBS, REVEALS, AND EXPANSION AND CONTROL JOINTS, DO NOT VARY FROM PLUMB BY MORE THAN 1/8 INCH (3.18 MM) IN 10 FEET (304.8 CM), 1/4 INCH (6.35 MM) IN 20 FEET (609.6

2. FOR VERTICAL ALIGNMENT OF EXPOSED HEAD JOINTS, DO NOT VARY FROM PLUMB BY

- MORE THAN 1/4 INCH (6.35 MM) IN 10 FEET (304.8 CM), OR 1/2 INCH (12.7 MM) MAXIMUM. 3. FOR CONSPICUOUS HORIZONTAL LINES, SUCH AS LINTELS, SILLS, PARAPETS, AND REVEALS, DO NOT VARY FROM LEVEL BY MORE THAN 1/8 INCH (3.18 MM) IN 10 FEET (304.8 CM), 1/4 INCH (6.35 MM) IN 20 FEET (609.6 CM), OR 1/2 INCH (12.7 MM) MAXIMUM. 4. FOR EXPOSED BED JOINTS, DO NOT VARY FROM THICKNESS INDICATED BY MORE THAN
- (12.7 MM). DO NOT VARY FROM BED-JOINT THICKNESS OF ADJACENT COURSES BY MORE THAN 1/8 INCH (3.18 MM). 5. FOR EXPOSED HEAD JOINTS, DO NOT VARY FROM THICKNESS INDICATED BY MORE THAN PLUS OR MINUS 1/8 INCH (3.18 MM). DO NOT VARY FROM ADJACENT BED-JOINT AND

PLUS OR MINUS 1/8 INCH (3.18 MM), WITH A MAXIMUM THICKNESS LIMITED TO 1/2 INCH

6. FOR FACES OF ADJACENT EXPOSED MASONRY UNITS, DO NOT VARY FROM FLUSH ALIGNMENT BY MORE THAN 1/16 INCH (1.59 MM) EXCEPT DUE TO WARPAGE OF MASONRY UNITS WITHIN TOLERANCES SPECIFIED FOR WARPAGE OF UNITS.

7. FOR EXPOSED BED JOINTS AND HEAD JOINTS OF STACKED BOND, DO NOT VARY FROM A

HEAD-JOINT THICKNESSES BY MORE THAN 1/8 INCH (3.18 MM).

STRAIGHT LINE BY MORE THAN 1/16 INCH (1.59 MM) FROM ONE MASONRY UNIT TO THE

3.03 MORTAR BEDDING AND JOINTING

3.04 REINFORCED UNIT MASONRY INSTALLATION

CM), OR 1/2 INCH (12.7 MM) MAXIMUM.

- A. LAY HOLLOW CONCRETE MASONRY UNITS AS FOLLOWS: 1. WITH FACE SHELLS FULLY BEDDED IN MORTAR AND WITH HEAD JOINTS OF DEPTH EQUAL TO BED JOINTS.
- 2. WITH WEBS FULLY BEDDED IN MORTAR IN GROUTED MASONRY, INCLUDING STARTING COURSE ON FOOTINGS. 3. WITH ENTIRE UNITS, INCLUDING AREAS UNDER CELLS, FULLY BEDDED IN MORTAR AT STARTING COURSE ON FOOTINGS WHERE CELLS ARE NOT GROUTED.
- TO SUPPORT REINFORCED MASONRY ELEMENTS DURING CONSTRUCTION. B. PLACING REINFORCEMENT: COMPLY WITH REQUIREMENTS IN ACI 530.1/ASCE 6/TMS 602.

ATTAINED ENOUGH STRENGTH TO RESIST GROUT PRESSURE.

A. TEMPORARY FORMWORK AND SHORES: CONSTRUCT FORMWORK AND SHORES AS NEEDED

C. GROUTING: DO NOT PLACE GROUT UNTIL ENTIRE HEIGHT OF MASONRY TO BE GROUTED HAS

- 1. COMPLY WITH REQUIREMENTS IN ACI 530.1/ASCE 6/TMS 602. FOR CLEANOUTS WITH REQUIREMENTS IN ACI 530.1/ASCE 6/TMS 602 AND FOR GROUT PLACEMENT, INCLUDING MINIMUM GROUT SPACE AND MAXIMUM POUR HEIGHT.
- 2. LIMIT HEIGHT OF VERTICAL GROUT POURS TO NOT MORE THAN 48 INCHES (1219.2 MM)

3.05 REPAIRING, POINTING, AND CLEANING

ELIMINATE EVIDENCE OF REPLACEMENT.

- A. REMOVE AND REPLACE MASONRY UNITS THAT ARE LOOSE, CHIPPED, BROKEN, STAINED, ETCHED DUE TO CLEANING METHODS EMPLOYED OR OTHERWISE DAMAGED OR THAT DO NOT MATCH ADJOINING UNITS AS DETERMINED BY THE ARCHITECT. INSTALL NEW UNITS TO MATCH ADJOINING UNITS; INSTALL IN FRESH MORTAR (COLOR MATCHED), POINTED TO
- B. POINTING: DURING THE TOOLING OF JOINTS, ENLARGE VOIDS AND HOLES, EXCEPT WEEP HOLES, AND COMPLETELY FILL WITH MORTAR. POINT UP JOINTS, INCLUDING CORNERS, OPENINGS, AND ADJACENT CONSTRUCTION, TO PROVIDE A NEAT, UNIFORM APPEARANCE. PREPARE JOINTS FOR SEALANT APPLICATION, WHERE INDICATED.
- C. IN-PROGRESS CLEANING: CLEAN UNIT MASONRY AS WORK PROGRESSES BY DRY BRUSHING TO REMOVE MORTAR FINS AND SMEARS BEFORE TOOLING JOINTS. SPRAY PRESSURE
- WASHING WHICH DAMAGES CMU IS NOT ACCEPTABLE. D. FINAL CLEANING: AFTER MORTAR IS THOROUGHLY SET AND CURED, CLEAN EXPOSED MASONRY AS FOLLOWS: DO NOT USE METHODS THAT VISUALLY ETCH OR OTHERWISE
- DAMAGE CMU OR MORTAR 1. REMOVE LARGE MORTAR PARTICLES BY HAND WITH WOODEN PADDLES AND
- NONMETALLIC SCRAPE HOES OR CHISELS. 2. USE OF A CONCENTRATED, GENERAL-PURPOSE ACIDIC CLEANER THAT IMPROVES THE COLOR AND UNIFORMITY OF MOST CUSTOM MASONRY IS RECOMMENDED. CLEANER
- EFFLORESCENCE, RUST AND SURFACE SOILING FROM TEXTURED CUSTOM MASONRY 3. BEFORE APPLYING, READ THE MANUFACTURER'S RECOMMENDATION FOR CLEANING.

SHOULD REMOVE CONCRETE SPLASHES, EXCESS MORTAR, MUD, RETARDERS, HEAVY

REFER TO TEST AREA RESULTS FOR RECOMMENDED DILUTION FOR INTENDED USE.

A. SALVAGEABLE MATERIALS: UNLESS OTHERWISE INDICATED, EXCESS MASONRY MATERIALS ARE CONTRACTOR'S PROPERTY. AT COMPLETION OF UNIT MASONRY WORK, REMOVE FROM

B. EXCESS MASONRY WASTE: REMOVE EXCESS CLEAN MASONRY WASTE THAT CANNOT BE

SECTION 061323

HEAVY TIMBER FRAMING

A. SHOP DRAWINGS: INDICATE DIMENSIONS, WOOD SPECIES AND GRADES, COMPONENT

PROFILES, DRILLED HOLES, FASTENERS, CONNECTORS, ERECTION DETAILS AND SEQUENCE.

USED AS FILL, AS DESCRIBED ABOVE, AND OTHER MASONRY WASTE, AND LEGALLY DISPOSE OF OFF OWNER'S PROPERTY.

PART 2 PRODUCTS

A. WOOD FABRICATED FROM OLD GROWTH TIMBER IS NOT PERMITTED.

STEEL; POWDER COATED; SIZE AND TYPE TO SUIT APPLICATION.

A. SET STRUCTURAL MEMBERS LEVEL AND PLUMB. IN CORRECT POSITION.

- 2.01 WOOD MATERIALS
- B. LUMBER GRADING RULES: WWPA G-5. C. LUMBER: ROUGH-SAWN WESTERN RED CEDAR SPECIES; C CLEAR GRADE, KILN-DRIED .
- A. WOOD PRESERVATIVE (SURFACE APPLICATION):

A. BOLTS, NUTS, WASHERS, LAGS, AND SCREWS, UNTREATED WOOD: MEDIUM CARBON

PART 3 EXECUTION

C. TREAT SITE-SAWN ENDS.

2.03 ACCESSORIES

3.01 ERECTION

- B. MAKE PROVISIONS FOR ERECTION LOADS, AND FOR SUFFICIENT TEMPORARY BRACING TO MAINTAIN STRUCTURE SAFE, PLUMB, AND IN TRUE ALIGNMENT UNTIL COMPLETION OF
- 3.02 SITE APPLIED WOOD TREATMENT A. BRUSH APPLY TWO COATS OF PRESERVATIVE TREATMENT ON WOOD IN CONTACT WITH

CEMENTITIOUS MATERIALS AND ROOFING AND RELATED METAL FLASHINGS.

END OF SECTION

B. APPLY PRESERVATIVE TREATMENT IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

D. ALLOW PRESERVATIVE TO CURE PRIOR TO ERECTING MEMBERS.

ERECTION AND INSTALLATION OF PERMANENT BRACING.

SALT LAKE CITY, UTAH

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J. CLEMENTS

B. WRIGHT

MONUMENT SIGN

2. INCLUDE TEST REPORTS, PER ASTM C 1019, FOR GROUT MIXES REQUIRED TO COMPLY WITH COMPRESSIVE STRENGTH REQUIREMENT.

COMPRESSIVE STRENGTH OF MASONRY DETERMINED ACCORDING TO. 1.02 QUALITY ASSURANCE

- EACH PRODUCT REQUIRED.
- COMPLETED MASONRY WHEN CONSTRUCTION IS NOT IN PROGRESS.
- COLD-WEATHER CONSTRUCTION REQUIREMENTS CONTAINED IN ACI 530.1/ASCE 6/TMS 602.
- THE QUALITY OF COMPLETED MASONRY 2.02 CONCRETE MASONRY UNITS (CMUS)
- B. SHAPES: PROVIDE SHAPES INDICATED AND AS FOLLOWS: HEADERS, BONDING, AND OTHER SPECIAL CONDITIONS.

- COMPRESSIVE STRENGTH OF 1900 PSI (13100.04 KPA). 2. WEIGHT CLASSIFICATION: MEDIUM WEIGHT. 3. SIZE (WIDTH): MANUFACTURED TO DIMENSIONS SPECIFIED IN "CONCRETE MASONRY
- REQUIRED TO PRODUCE MORTAR COLOR INDICATED.
- D. MORTAR CEMENT: ASTM C 1329.
- G. AGGREGATE FOR GROUT: ASTM C 404.
- COMPLYING WITH ASTM C 494/C 494M, TYPE C, AND RECOMMENDED BY MANUFACTURER FOR USE IN MASONRY MORTAR OF COMPOSITION INDICATED. K. WATER-REPELLENT ADMIXTURE: LIQUID WATER-REPELLENT MORTAR ADMIXTURE INTENDED
- L. WATER: POTABLE.

GENERAL NOTES

CONDITIONS PRIOR TO SUBMITTING BID OR PROPOSAL.

FOR THE REPAIR OF DAMAGES TO SUCH UTILITIES.

CONDITION TO THE OWNER'S REPRESENTATIVE IMMEDIATELY.

DAMAGED AREAS TO ORIGINAL CONDITION AT NO COST.

- REMOVE OBSTRUCTIONS AND VEGETATION TO PERMIT INSTALLATION OF NEW CONSTRUCTION 2. FILL DEPRESSIONS CAUSED BY CLEARING AND GRUBBING OPERATIONS WITH SATISFACTORY SOIL MATERIALS IN HORIZONTAL LAYERS NOT EXCEEDING 8-INCH LOOSE DEPTH, AND
- REPRESENTATIVE OR AT LOCATION SHOWN ON PLANS.

- REMAIN. REPAIR ANY DAMAGES THAT MAY OCCUR TO EXISTING ITEMS TO BE PROTECTED 8. ALL ITEMS TO BE REMOVED FROM THE PROJECT AND EXCESS MATERIALS SHALL BE LEGALLY

SYMBOL	DESCRIPTION	<u>QTY</u>
D-01	EXISTING CURB AND GUTTER - preserve and protect	
D-02	EXISTING CHAINLINK FENCE - preserve and protect	
D-03	REMOVE AND PRESERVE CHAINLINK FENCE - remove, preserve, store and protect for future reuse	
D-04	REMOVE AND PRESERVE CHAINLINK GATE - return to owner	
D-05	REMOVE AND PRESERVE BENCH - return to owner	
D-06	REMOVE CURB - clear and grub	
D-07	EXISTING SIGN - preserve and protect	
D-08	EXISTING STORM DRAIN - preserve and protect	
	REMOVE ASPHALT - Logan City to remove	36 sf
	REMOVE CONCRETE - Logan City to remove	1,991 sf
	REMOVE CONCRETE GUTTER - Logan City to remove	48 sf
	REMOVE LANDSCAPE - clear and grub	95 sf
	EXISTING LANDSCAPE AND IRRIGATION - preserve and protect	456 sf
	EXISTING CONCRETE - preserve and protect	27 sf
+ + + + + + + + + + + + + + + + + + + +	EXISTING ASPHALT - preserve and protect	102 sf

SYMBOL	DESCRIPTION	QTY	DETAIL
1	MONUMENT SIGN		A4/C-501
2	CORNER CURB RAMP WITH DETECTABLE WARNING SURFACES - detectable warning surface supplied by Logan City, installed by contractor		D4/C-501
3	6' TALL CHAINLINK FENCE - reuse existing where possible		D1/C-501
	CONCRETE - match finish of surrounding concrete	1,348 sf	A3/C-501
* * * * * * * * * * * * * * * * * * *	TURF GRASS - 3 cultivar kentucky bluegrass blend, match speces of adjacent sod, patch and repair as needed	1,086 sf	A1/C-501
	CONCRETE GUTTER	48 sf	D3/C-501
	ASPHALT - installation and repair by Logan City	36 sf	

GRADING NOTES

- 1. CONTRACTOR SHALL BE RESPONSIBLE FOR ON-SITE VERIFICATION OF EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF ANY WORK AND IMMEDIATELY REPORT ANY DISCREPANCIES TO THE ARCHITECT.
- 2. PRIOR TO THE COMMENCEMENT OF ANY WORK, THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES THAT MAY BE AFFECTED BY HIS WORK. THE CONTRACTOR SHALL PROTECT THOSE UTILITIES THAT ARE TO REMAIN AND BE RESPONSIBLE FOR THE REPAIR OF DAMAGES TO SUCH UTILITIES.
- 3. THE CONTRACTOR SHALL NOTIFY ALL UTILITIES WHEN CONSTRUCTION WORK BEGINS NEAR ANY UTILITY LINES AND ARRANGE FOR A UTILITY REPRESENTATIVE BE PRESENT IF THE CONTRACTOR'S CLOSE OPERATIONS COULD CREATE A HAZARDOUS CONDITION.
- 4. CUT AND CAP UTILITY LINES TO BE ABANDONED AS REQUIRED. REMOVE ALL UTILITIES NECESSARY FOR NEW CONSTRUCTION AND COORDINATE WITH OTHER DISCIPLINES AND
- 5. CONTRACTOR SHALL FIELD LOCATE ALL EXISTING IRRIGATION MAINLINE AND PRESERVE AND PROTECT THE LINES OR REROUTE THEM AS NECESSARY. COORDINATE WITH GROUNDS PERSONNEL.
- 6. CONTRACTOR SHALL REPAIR ALL DAMAGES CAUSED BY OPERATIONS (WHICH OCCUR ON OR OFF SITE) TO THE ARCHITECT'S AND OWNER'S SATISFACTION. 7. CONTRACTOR SHALL PATCH OR REPLACE EXISTING ASPHALT, CONCRETE, LANDSCAPING, ETC. AS REQUIRED WHERE NEW CONSTRUCTION MEETS EXISTING.
- 8. PROVIDE SMOOTH GRADE TRANSITION IN ALL LANDSCAPE AREAS AND BETWEEN NEW EARTH WORK AREA AND EXISTING. 9. THE ELEVATION OF THE SUB-GRADE SHALL BE SET SO THE FINAL GRADE CAN BE MET BY THE
- ADDITION OF THE SPECIFIED DEPTH OF TOP SOIL OR PAVEMENT CROSS SECTION. PROVIDE TWELVE INCHES OF TOP SOIL IN PLANTER BEDS AND FOUR INCHES IN LAWN AREAS. 10. CURB RAMPS ARE NOT TO EXCEED 1:12 SLOPE. LANDINGS AND TOP AND BOTTOM OF RAMPS
- ARE TO BE A MAXIMUM OF TWO PERCENT IN ANY DIRECTION FOR AN AREA OF FIVE-FEET BY 11. WALKS SHALL NOT EXCEED FIVE PERCENT SLOPE IN THE DIRECTION OF TRAVEL. THE CROSS

OTHER NOTES REGARDING SLOPES OF CURB RAMPS AND WALKS.

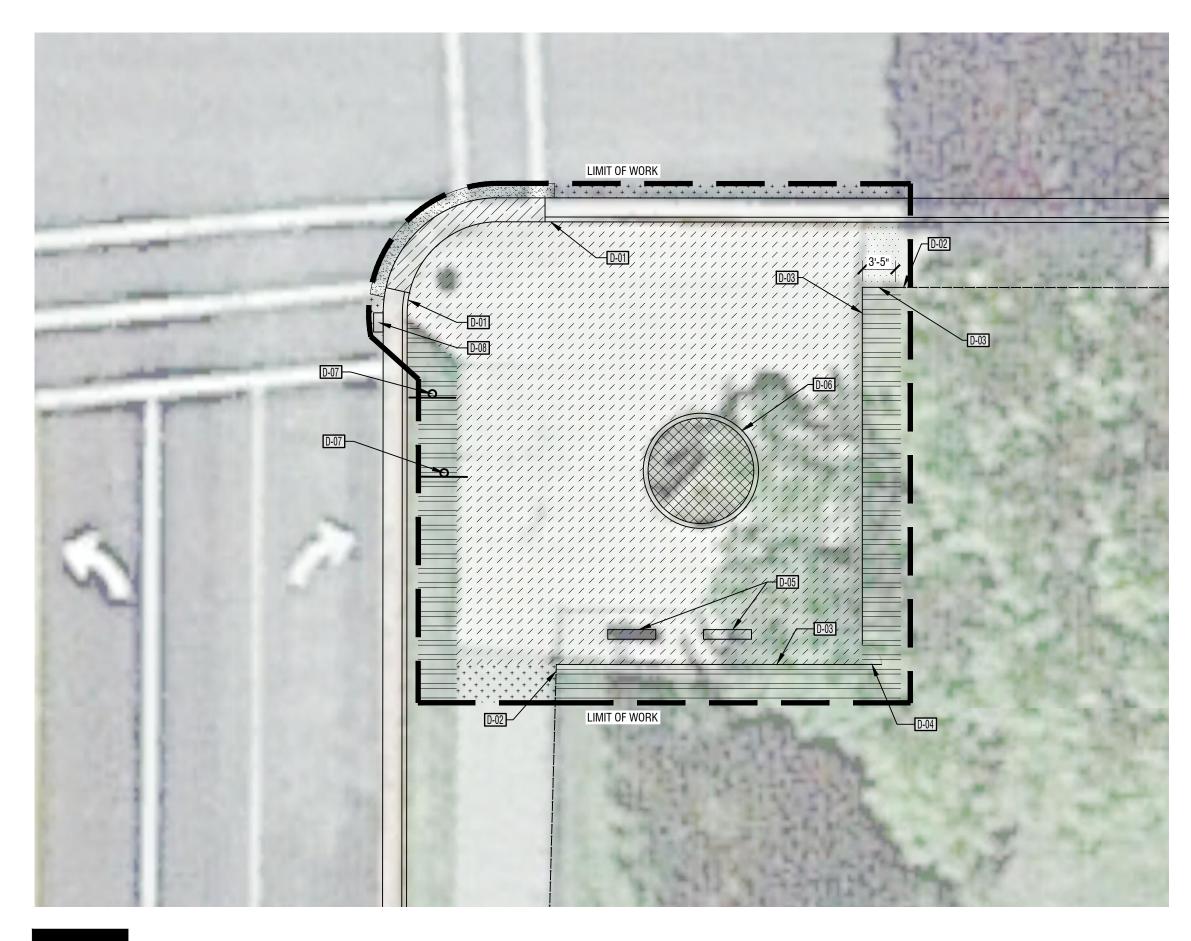
SLOPE ON WALKS SHALL NOT EXCEED TWO PERCENT. 12. SURVEY NOT AVAILABLE. CONTRACTOR TO SLOPE CONCRETE TO DRAIN AWAY FROM SIGN AT 2% MAX. MATCH EXISTING GRADES AT LIMIT OF WORK LINE AS CLOSE AS POSSIBLE. SEE

SITE PLAN LEGEND

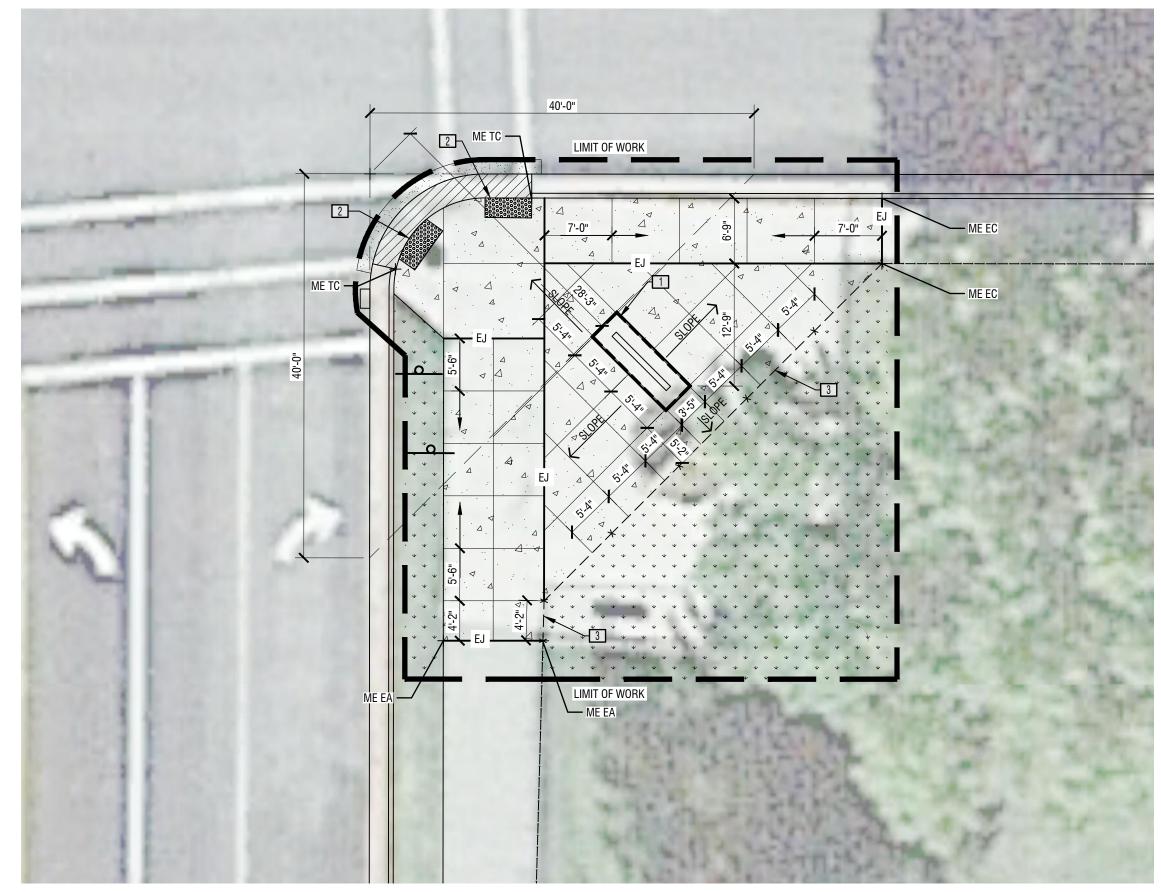
SYMBOL	DESCRIPTION	QTY	DETAIL
1	MONUMENT SIGN		A4/C-501
2	CORNER CURB RAMP WITH DETECTABLE WARNING SURFACES - detectable warning surface supplied by Logan City, installed by contractor		D4/C-501
3	6' TALL CHAINLINK FENCE - reuse existing where possible		D1/C-501
	CONCRETE - match finish of surrounding concrete	1,348 sf	A3/C-501
* * * * * * * * * * * * * * * * * * *	TURF GRASS - 3 cultivar kentucky bluegrass blend, match speces of adjacent sod, patch and repair as needed	1,086 sf	A1/C-501
	CONCRETE GUTTER	48 sf	D3/C-501
	ASPHALT - installation and repair by Logan City	36 sf	

GRADING LEGEND

CALLOUT	<u>DEFINITION</u>
EC	EDGE OF CONCRETE
EA	EDGE OF ASPHALT
TC	TOP OF CURB
ME	MATCH EXISTING



DEMOLITION PLAN



SITE PLAN

NORTH

DEMOLITION PLAN AND SITE PLAN

DEMOLITION NOTES

COMPACT EACH LAYER TO A DENSITY EQUAL TO ADJACENT GROUND.

- 5. REMOVE EXISTING ABOVE- AND BELOW-GRADE STRUCTURES AS INDICATED AND AS NECESSARY TO FACILITATE NEW CONSTRUCTION.
- 6. AT ALL LOCATIONS WHERE EXISTING PAVEMENT ABUTS NEW CONSTRUCTION, THE EDGE OF
- 7. PROTECT EXISTING, WALKS, DRIVES, CURBS, EXISTING VEGETATION, ETC. THAT ARE TO
- DISPOSED OF OFFSITE BY THE CONTRACTOR, UNLESS INDICATED TO BE RETURNED TO THE
- 9. CONTINUOUSLY CLEAN-UP AND REMOVE WASTE MATERIALS FROM SITE. DO NOT ALLOW MATERIALS TO ACCUMULATE ON SITE.

1. THE CONTRACTOR SHALL INSPECT THE SITE TO BE FULLY AWARE OF ALL PERTINENT EXISTING

REPRESENTATIVE TO DETERMINE METHOD OF MAINTAINING PUBLIC ACCESS TO THE BUILDING DURING CONSTRUCTION. CONTRACTOR SHALL MAINTAIN APPROVED ACCESS TO THE BUILDING THROUGHOUT THE DURATION OF CONSTRUCTION AND SHALL PROVIDE ALL TEMPORARY

2. NO WORK IS TO BEGIN UNTIL NECESSARY PERMITS HAVE BEEN OBTAINED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN AND PAY FOR ALL PERMITS. 3. PRIOR TO BEGINNING CONSTRUCTION, CONTRACTOR SHALL MEET WITH THE OWNER'S

4. PRIOR TO THE COMMENCEMENT OF ANY WORK, THE CONTRACTOR SHALL VERIFY THE

5. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES WHEN CONSTRUCTION WORK BEGINS NEAR ANY UTILITY LINES AND ARRANGE FOR A UTILITY REPRESENTATIVE TO BE PRESENT IF THE CONTRACTOR'S CLOSE OPERATIONS COULD CREATE A HAZARDOUS

6. THE CONTRACTOR SHALL PROTECT EXISTING, WALKS, DRIVES, CURBS, ETC. THAT ARE TO REMAIN AND SHALL REPAIR ANY DAMAGE THAT MAY RESULT FROM THE WORK. 7. THE CONTRACTOR HAS THE RESPONSIBILITY OF VERIFYING ALL GRADES, ELEVATIONS,

WITHIN THIS CONTRACT. REPORT ANY DISCREPANCIES BETWEEN PLANS AND ACTUAL

8. THE CONTRACTOR IS RESPONSIBLE FOR ANY UNAUTHORIZED DAMAGE INSIDE AND OUTSIDE THE LIMIT OF WORK LINE DUE TO CONSTRUCTION OPERATIONS AND SHALL RESTORE

DIMENSIONS, MEASUREMENTS, CORNERS, CURBS AND ANGLES FOR WORK TO BE PERFORMED

LOCATION OF ALL UNDERGROUND UTILITIES THAT MAY BE AFFECTED BY HIS WORK. THE CONTRACTOR SHALL PROTECT THOSE UTILITIES THAT ARE TO REMAIN AND BE RESPONSIBLE

RAMPS, BARRIERS, ETC. AS REQUIRED TO MAINTAIN PUBLIC SAFETY.

10. DO NOT BURN OR BURY MATERIALS ON SITE. LEAVE SITE IN CLEAN CONDITION.

DEMOLITION PLAN LEGEND

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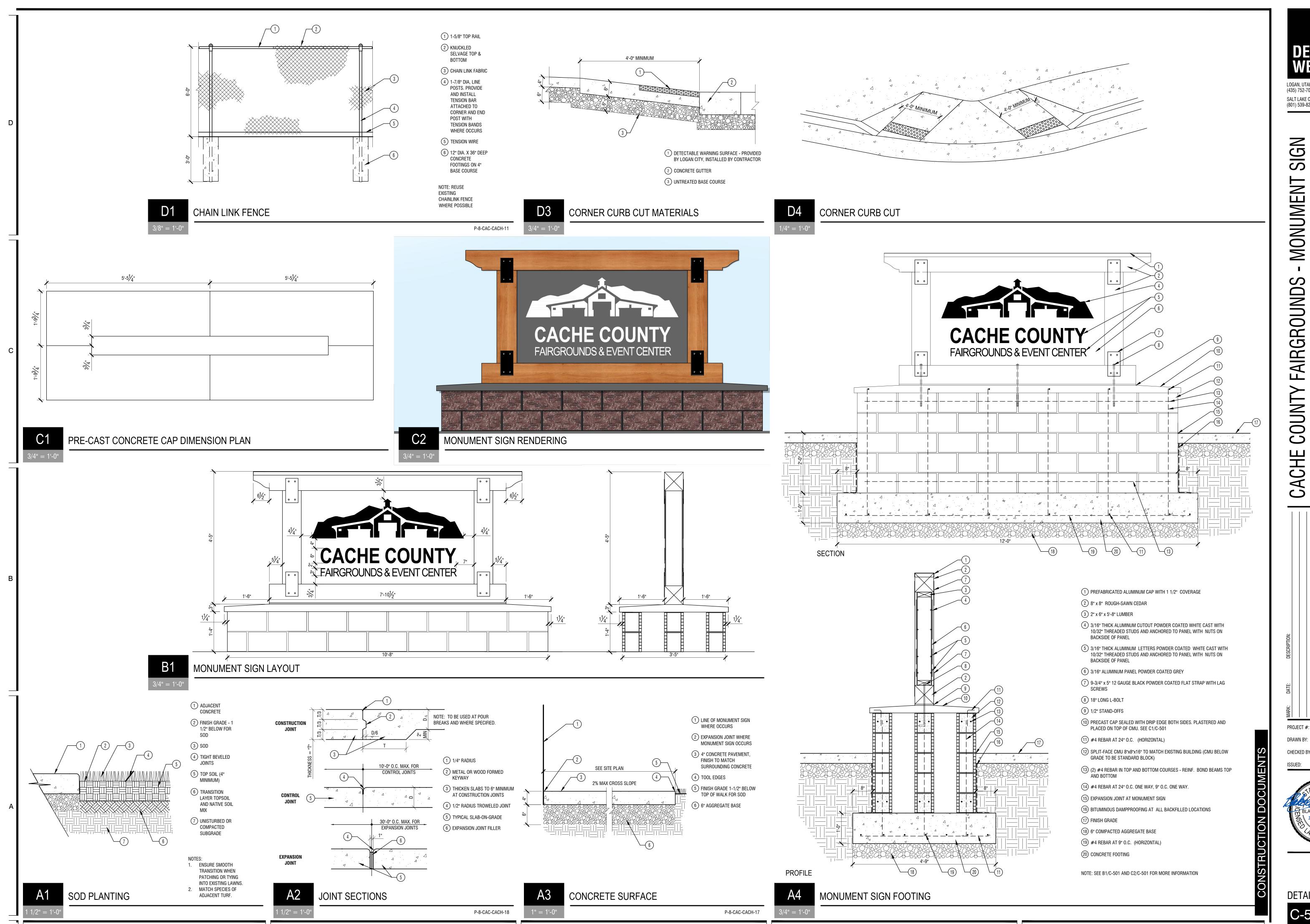
FAIRGROUND

COUNTY

CHE

J. CLEMENTS B. WRIGHT

823278



DESIGN **WEST**

LOGAN, UTAH (435) 752-7031 (801) 539-8221

SALT LAKE CITY, UTAH

SIGN

MONUMENT **FAIRGROUNDS** COUNTY

823278 PROJECT #: J. CLEMENTS B. WRIGHT CHECKED BY:



DETAILS

