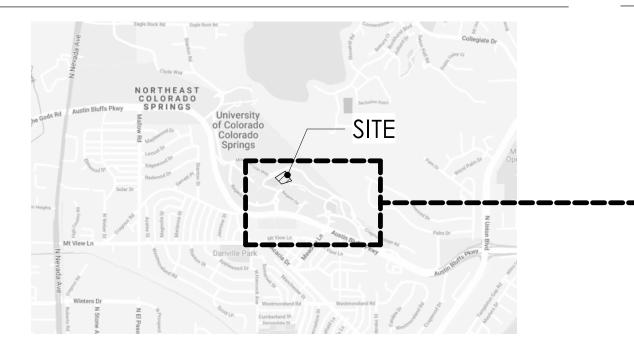
WATER INFILTRATION - OSBORNE CENTER



VICINITY MAP

LOCATION MAP



CONTACT INFORMATION

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CIVIL ENGINEER KL&A ENGINEERS & BUILDERS 421 EAST 4TH ST LOVELAND, CO 80537 NAME 970.667.2426 EMAIL@DOMAIN.COM

STRUCTURAL ENGINEER KL&A ENGINEERS & BUILDERS 421 EAST 4TH ST LOVELAND, CO 80537 ANDY PADDOCK 970.667.2426 APADDOCK@KLAA.COM

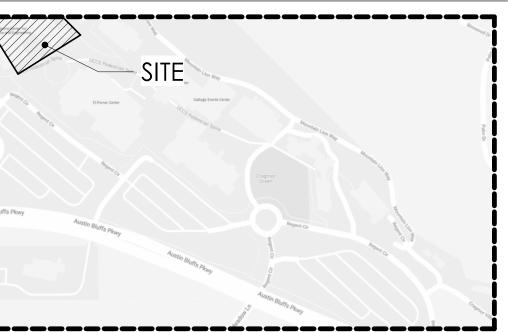
PROJECT DESCRIPTION

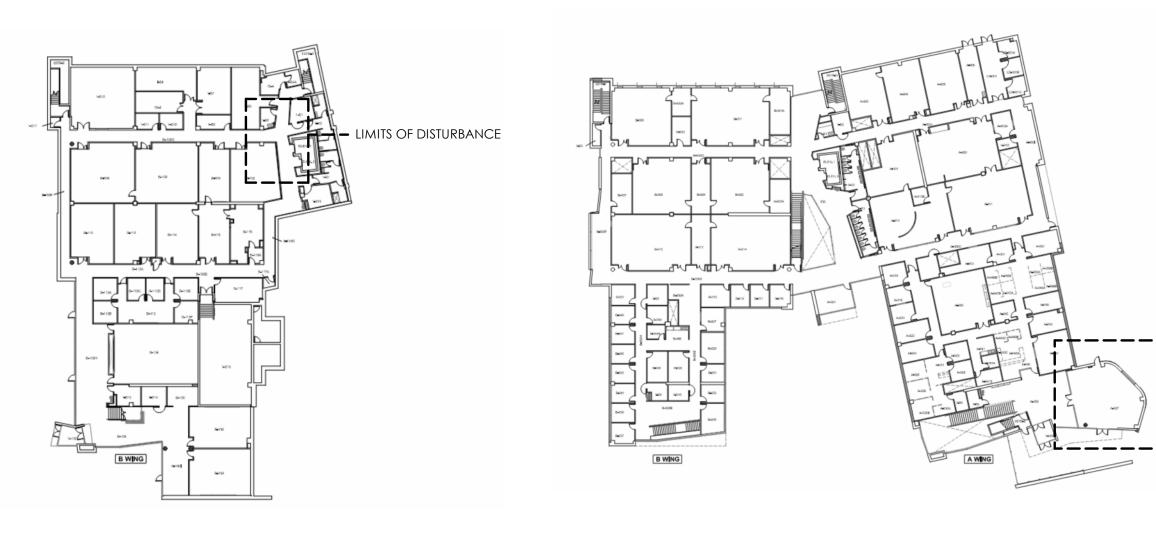
VENEER AND WATERPROOFING REPAIRS

MODIFICATIONS TO EXISTING BRICK VENEER AND FLATWORK TO PROVIDE PROPER DRAINAGE FROM THE WALL CAVITY TO STOP INTERIOR FLOODING DURING RAIN AND SNOW EVENTS.

SHEET LIST

GENERAL	
G000	COVER PAGE
G010	SHEET SPECS
G011	SHEET SPECS
ARCHITECTU	RE
A201	1ST & 4TH FLOOR PLAN
A202	K-12 FLOOR PLAN
A250	PLAN DETAILS
STRUCTURAL	
S000	GENERAL NOTES
\$100	OVERALL PLAN AND DETAILS
S200	ENLARGED FOUDNATION PLAN AND DETAILS





1ST FLOOR OVERALL PLAN

3RD FLOOR OVERALL PLAN

- LIMITS OF DISTURBANCE









UEES

DIVISION 01 - GENERAL REQUIREMENTS SECTION 01 4000

QUALITY REQUIREMENTS

PART 1 GENERAL

- .01 CONTRACTOR'S CONSTRUCTION-RELATED PROFESSIONAL DESIGN SERVICES A. Provide such engineering design services as may be necessary to plan and safely conduct certain construction operations, pertaining to, but
- not limited to the following: 1. Temporary sheeting, shoring, or supports.
- 2. Temporary scaffolding.
- Temporary bracing.
 Temporary foundation underpinning.
- 5. Temporary stairs or steps required for construction access only.

A. Designer's Qualification Statement: Submit for Architect's knowledge

- as contract administrator, or for Owner's information.
 1. Include information for each individual professional responsible for producing, or supervising production of, design-related professional services provided by Contractor.
- a. Full name.
- b. Professional licensure information.c. Statement addressing extent and depth of experience
- specifically relevant to design of items assigned to Contractor.
- B. Design Data: Submit for Architect's knowledge as contract administrator for the limited purpose of assessing compliance with information given and the design concept expressed in the Contract Documents, or for Owner's information.
- Include required product data and shop drawings.
- 2. Include a statement or certification attesting that design data complies with criteria indicated, such as building codes, loads,
- functional, and similar engineering requirements.
- Include signature and seal of design professional responsible for allocated design services on calculations and drawings.
 IALITY ASSURANCE
- A. Contractor's Quality Control (CQC) Plan:
- Prior to start of work, submit a comprehensive plan describing how contract deliverables will be produced. Tailor CQC plan to specific requirements of the project. Include the following
- information: a. Management Approach: Define, describe, and include in the plan specific methodologies used in executing the work.

1.04 REFERENCES AND STANDARDS

- A. For products and workmanship specified by reference to a document or documents not included in the Project Manual, also referred to as reference standards, comply with requirements of the standard, except when more rigid requirements are specified or are required by applicable codes.
- B. Comply with reference standard of date of issue current on date of Contract Documents, except where a specific date is established by applicable code.
- C. Should specified reference standards conflict with Contract Documents, request clarification from Architect before proceeding.
 D. Neither the contractual relationships, duties, or responsibilities of the
- D. Neither the contractual relationships, duties, or responsibilities of the parties in Contract nor those of Architect shall be altered from Contract Documents by mention or inference otherwise in any reference document.

PART 3 EXECUTION 2.01 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.
- Should manufacturers' instructions conflict with Contract Documents, request clarification from Architect before proceeding.
- 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 quality.
- 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.

2.02 DEFECT ASSESSMENT

- A. Replace Work or portions of the Work not complying with specified requirements.
- B. If, in the opinion of Owner, it is not practical to remove and replace the work, Owner will direct an appropriate remedy or adjust payment.

SECTION 01 5713 TEMPORARY EROSION AND SEDIMENT CONTROL

PART 1 GENERAL

- 1.01 SUBMITTALS A. Erosion and Sedimentation Control Plan:
 - Submit within 2 weeks after Notice to Proceed.
 - Obtain the approval of the Plan by authorities having jurisdiction.
 Obtain the approval of the Plan by Owner.

PART 2 PRODUCTS 2.01 MATERIALS

- A. Grass Seed For Temporary Cover: Select a species appropriate to climate, planting season, and intended purpose. If same area will later be planted with permanent vegetation, do not use species known to be excessively competitive or prone to volunteer in subsequent seasons.
- B. Silt Fence Fabric: Polypropylene geotextile resistant to common soil chemicals, mildew, and insects; non-biodegradable; in longest lengths possible; fabric including seams with the following minimum average roll lengths:
- 1. Average Opening Size: 30 U.S. Std. Sieve (0.600 mm), maximum,
- when tested in accordance with ASTM D4751.Permittivity: 0.05 sec^-1, minimum, when tested in accordance
- with ASTM D4491/D4491M.
 3. Ultraviolet Resistance: Retaining at least 70 percent of tensile strength, when tested in accordance with ASTM D4355/D4355M
- after 500 hours exposure.
 4. Tensile Strength: 100 pounds-force (450 N), minimum, in cross-machine direction; 124 pounds-force (550 N), minimum, in
- machine direction; when tested in accordance with ASTM D4632/D4632M.
 5. Tear Strength: 55 pounds-force (245 N), minimum, when tested in
- accordance with ASTM D4533/D4533M.
- C. Silt Fence Posts: One of the following, minimum 5 feet (1500 mm) long:
 1. Hardwood, 2 by 2 inches (50 by 50 mm) in cross section.

 PART 3 EXECUTION

3.01 SCOPE OF PREVENTIVE MEASURES

- A. In all cases, if permanent erosion resistant measures have been
- installed temporary preventive measures are not required.
- B. Construction Entrances: Traffic-bearing aggregate surface.
 1. Width: As required; 20 feet (7 m), minimum.
- Wiath: As required; 20 feet (7 m), minin
 Length: 50 feet (16 m), minimum.
- Provide at each construction entrance from public right-of-way.
 Where necessary to prevent tracking of mud onto right-of-way, provide wheel washing area out of direct traffic lane, with drain into sediment trap or basin.
- C. Linear Sediment Barriers: Made of silt fences.
- Provide linear sediment barriers:
 a. Along downhill perimeter edge of disturbed areas, including
- soil stockpiles.Space sediment barriers with the following maximum slope length upslope from barrier:
- a. Slope of Less Than 2 Percent: 100 feet (30 m)..
- b. Slope Between 2 and 5 Percent: 75 feet (23 m).c. Slope Between 5 and 10 Percent: 50 feet (15 m).
- d. Slope Between 10 and 20 Percent: 25 feet (7.5 m).
- e. Slope Over 20 Percent: 15 feet (4.5 m).
- D. Storm Drain Curb Inlet Sediment Trap: Protect each curb inlet using one of the following measures:
 1. Filter fabric wrapped around hollow concrete blocks blocking
- entire inlet face area; use one piece of fabric wrapped at least 1-1/2 times around concrete blocks and secured to prevent dislodging; orient cores of blocks so runoff passes into inlet.
 2. Straw bale row blocking entire inlet face area; anchor into
- pavement.
- . Storm Drain Drop Inlet Sediment Traps: As detailed on drawings.
- F. Temporary Splash Pads: Stone aggregate over filter fabric; size to suit application; provide at downspout outlets and storm water outlets.
- G. Soil Stockpiles: Protect using one of the following measures:

- 1. Cover with polyethylene film, secured by placing soil on outer
- edges. 2. Cover with mulch at least 4 inches (100 mm) thickness of pine
- inches (150 mm) of straw or hay.H. Mulching: Use only for areas that may be subjected to erosion for less than 6 months.

needles, sawdust, bark, wood chips, or shredded leaves, or 6

I. Temporary Seeding: Use where temporary vegetated cover is required.

3.02 MAINTENANCE

- 3.03 CLEAN UP
- A. Remove temporary measures after permanent measures have been installed, unless permitted to remain by Architect.
- B. Clean out temporary sediment control structures that are to remain as permanent measures.
- C. Where removal of temporary measures would leave exposed soil, shape surface to an acceptable grade and finish to match adjacent ground surfaces.

SECTION 01 7310 CUTTING AND PATCHING

PART 1 - GENERAL 1.01 SUMMARY

A. This Section includes procedural requirements for cutting and patching.1.02 SUBMITTALS

- A. Cutting and Patching Proposal: If contractor believes that cutting and patching other than that indicated on the drawings is necessary, submit a proposal describing procedures at least **seven(7)** days before the time cutting and patching will be performed, requesting approval to proceed. Include the following information:
- Extent: Describe cutting and patching, show how they will be performed, and indicate why they cannot be avoided.
- a. Changes to In-Place Construction: Describe anticipated results. Include changes to structural elements and operating components as well as changes in building's appearance and other significant visual elements.
- Products: List products to be used and firms or entities that will perform the Work.
- Dates: Indicate when cutting and patching will be performed.
 Utility Services and Mechanical/Electrical Systems: List services/systems that cutting and patching procedures will disturb or affect. List services/systems that will be relocated and those that will be temporarily out of service. Indicate how long services/systems will be disrupted.
- Structural Elements: Where cutting and patching involve adding reinforcement to structural elements, submit details and engineering calculations showing integration of reinforcement with original structure.
- 6. Architect's Approval: Obtain approval of cutting and patching proposal before cutting and patching. Approval does not waive right to later require removal and replacement of unsatisfactory work.

1.03 QUALITY ASSURANCE

- A. Structural Elements: Do not cut and patch structural elements in a manner that could change their load-carrying capacity or load-deflection ratio.
- B. Operational Elements: Do not cut and patch operating elements and related components in a manner that results in reducing their capacity to perform as intended or that results in increased maintenance or decreased operational life or safety.
- C. Miscellaneous Elements: Do not cut and patch miscellaneous elements or related components in a manner that could change their loadcarrying capacity, that results in reducing their capacity to perform as intended, or that results in increased maintenance or decreased operational life or safety.
- D. Visual Requirements: Do not cut and patch construction in a manner that results in visual evidence of cutting and patching. Do not cut and patch construction exposed on the exterior or in occupied spaces in a manner that would, in Architect's opinion, reduce the building's aesthetic qualities. Remove and replace construction that has been cut and patched in a visually unsatisfactory manner.

1.04 WARRANTY

A. Existing Warranties: Remove, replace, patch, and repair materials and surfaces cut or damaged during cutting and patching operations, by methods and with materials so as not to void existing warranties.
 PART 2 - PRODUCTS

2.01 MATERIALS

3.01 EXAMINATION

3.02 PREPARATION

3.03 PERFORMANCE

- A. General: Comply with requirements specified in other Sections.
- B. In-Place Materials: Use materials identical to in-place materials. For exposed surfaces, use materials that visually match in-place adjacent surfaces to the fullest extent possible.
 1. If identical materials are unavailable or cannot be used, use
- materials that, when installed, will match the visual and functional performance of in-place materials. PART 3 - EXECUTION

A. Examine surfaces to be cut and patched and conditions under which

work of the Owner or any separate Contractor.

2. Before patching, verify compatibility with and suitability of

3. Proceed with installation only after unsafe or unsatisfactory

B. Protection: Protect in-place construction during cutting and patching

conditions for portions of Project that might be exposed during cutting

to prevent damage. Provide protection from adverse weather

C. Adjoining Areas: Avoid interference with use of adjoining areas or

D. Existing Utility Services and Mechanical/Electrical Systems: Where

A. General: Employ qualified skilled workers to perform cutting and

B. Cutting: Cut in-place construction by sawing, drilling, breaking,

existing services/systems are required to be removed, relocated, or

abandoned, bypass such services/systems before cutting to minimize

patching. Proceed with cutting and patching at the earliest feasible

subsequently patch as required to restore surfaces to their original

chipping, grinding, and similar operations, including excavation, using

1. In general, use hand or small power tools designed for sawing and

small as possible, neatly to size required, and with minimum

grinding, not hammering and chopping. Cut holes and slots as

disturbance of adjacent surfaces. Temporarily cover openings

2. Finished Surfaces: Cut or drill from the exposed or finished side into

3. Concrete & Masonry: Cut using a cutting machine, such as an

a. Excavating and Backfilling: Comply with requirements in

applicable Division 2 & 31-33 Sections where required by

4. Mechanical and Electrical Services: Cut off pipe or conduit in walls

or partitions to be removed. Cap, valve, or plug and seal

5. Proceed with patching after construction operations requiring

effectiveness of weather exposed or moisture elements or systems.

D. Patching: Patch construction by filling, repairing, refinishing, closing up,

comply with installation requirements specified in other Sections.

E. Cleaning: Clean areas and spaces where cutting and patching are

SECTION 01 7800

CLOSEOUT SUBMITTALS

and similar operations following performance of other Work. Patch with

durable seams that are as invisible as possible. Provide materials and

performed. Completely remove paint, mortar, oils, putty, and similar

remaining portion of pipe or conduit to prevent entrance of

1. Cut in-place construction to provide for installation of other

methods least likely to damage elements retained or adjoining

construction. If possible, review proposed procedures with original

Installer; comply with original Installer's written recommendations.

components or performance of other construction, and

A. Temporary Support: Provide temporary support of Work to be cut.

1. Coordinate cutting and patching of any work that affects the

substrates, including compatibility with in-place finishes or primers.

cutting and patching are to be performed.

conditions have been corrected.

interruption of free passage to adjoining areas.

and patching operations.

interruption to occupied areas.

time, and complete without delay.

condition.

when not in use.

concealed surfaces.

cutting are complete.

materials.

PART 1 GENERAL

1.01 SUBMITTALS

abrasive saw or a diamond-core drill.

cutting and patching operations.

moisture or other foreign matter after cutting.

C. Temporary Patching and Protection: Maintain the integrity and

- A. Project Record Documents: Submit documents to Architect with claim for final Application for Payment.
- B. Operation and Maintenance Data:
- 1. Submit two copies of preliminary draft or proposed formats and outlines of contents before start of Work. Architect will review draft and return one copy with comments.
- C. Warranties and Bonds:
 1. For equipment or component parts of equipment put into service during construction with Owner's permission, submit documents within 10 days after acceptance.
- 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
- Addenda.
 Change Orders and other modifications to the Contract.
- Manufacturer's instruction for assembly, installation, and adjusting.
 3.02 OPERATION AND MAINTENANCE DATA
- A. Product Data: Mark each sheet to clearly identify specific products
- and component parts, and data applicable to installation. Delete inapplicable information.B. Drawings: Supplement product data to illustrate relations of component parts of equipment and systems, to show control and flow
- diagrams. Do not use Project Record Documents as maintenance drawings.
- 3.03 OPERATION AND MAINTENANCE DATA FOR MATERIALS AND FINISHESA. For Each Product, Applied Material, and Finish:
- Product data, with catalog number, size, composition, and color and texture designations.
- B. Instructions for Care and Maintenance: Manufacturer's recommendations for cleaning agents and methods, precautions against detrimental cleaning agents and methods, and recommended schedule for cleaning and maintenance.

3.04 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 Owner's permission, leave date of beginning of time of warranty until Date of Substantial completion is determined.

DIVISION 02 - EXISTING CONDITIONS

SECTION 02 0342 REMOVAL AND SALVAGE OF PERIOD CONSTRUCTION MATERIALS PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTION

2.01 PERIOD TREATMENT, GENERAL

2.02 GENERAL PROCEDURES

- A. Drawings indicating existing construction, building services, and site utilities are based on casual field observation only.
- 2.03 ITEMS TO BE SALVAGED
 A. General: Salvage elements and components to the maximum extent possible. Maintain a chain of custody of salvaged materials, including the condition of such materials before and after salvage operations.
- B. Masonry Elements: Remove intact and salvage masonry elements indicated on drawings.

2.04 MATERIALS TO BE REMOVED

- A. Remove existing nonhistoric elements as indicated and as required to allow direct access to period construction elements indicated to be restored or salvaged for reuse.
- B. Services: Remove existing systems and equipment to extent indicated, including but not limited to Fire Protection, Plumbing, HVAC, Electrical, and Telecommunications elements:

C. Protect existing historic elements. 2.05 MATERIALS TO BE RECYCLED

A. Recycle removed nonhistoric materials to the maximum extent possible. Remove recyclable materials by hand wherever possible.B. Recycle dimension lumber, scrap wood, paper and cardboard, and

SECTION 02 4119

SELECTIVE DEMOLITION

PART 1 - GENERAL 1.01 REFERENCE STANDARDS

metals.

A NEPA 241 - Standard for Safe

- A. NFPA 241 Standard for Safeguarding Construction, Alteration, and Demolition Operations; 2022.
 1.02 SUMMARY
- A. This Section includes the following:
- Photo documentation of existing conditions.
 Demolition and removal of selected site elements including paving, area drains, and subgrade drain lines.
- B. In addition to demolition specifically shown, cut, move, and remove items as necessary to provide access or to allow alterations and new work to proceed. Include such items as:
- Repair or removal of hazardous or unsanitary conditions.
 Removal of abandoned items and items serving no useful
- purpose, such as abandoned piping, conduit and wiring.
 Removal of unsuitable or extraneous materials not marked for salvage, such as abandoned furnishings and equipment, and debris such as rotted wood, rusted metals, and deteriorated concrete.
- 4. Cleaning of surfaces, and removal of surface finishes, as needed to install new work and finishes.C. Related Requirements:
- See Division 0 "General Conditions" for encounter of hazardous materials.
 See Division 1 Sections "Cutting and Patching" for additional

requirements.

- 1.03 DEFINITIONSA. Remove: Detach items from existing construction and legally dispose of
 - them off-site, unless indicated to be removed and salvaged or removed and reinstalled.
- B. Remove and Salvage: Detach items from existing construction and deliver them to Owner.
 C. Remove and Poinstell: Detach items from existing construction items from existing construction.
- 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.

1.04 SUBMITTALS

- A. Pre-demolition Photographs or Videotapes: Show existing conditions of adjoining construction and site improvements, including finish surfaces that might be misconstrued as damaged caused by selective demolition operations.
- B. Landfill Records: Indicate receipt and acceptance of hazardous wastes by a landfill facility licensed to accept hazardous wastes.

1.05 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 Project.
- B. Regulatory Requirements: Comply with governing EPA notification regulations before beginning selective demolition. Comply with hauling and disposal regulations of authorities having jurisdiction.
- C. Obtain required permits from authorities, including but not limited to Right-of Way encroachments, hot-work permits, hazardous material disturbance/abatement permits and hauling or disposal permits.
- D. Standards: Comply with ANSI/ASSP A10.6 and NFPA 241.
- E. Conduct conference at Project site during the preconstruction meeting.

1.06 PROJECT CONDITIONS

- A. Owner will occupy portions of building immediately adjacent to selective demolition area. Conduct selective demolition so Owner's operations will not be disrupted.
- B. Conditions existing at time of inspection for bidding purpose will be maintained by Owner as far as practical.
 C. Notify Architect of discourse and the last of the second secon
- C. Notify Architect of discrepancies between existing conditions and Drawings before proceeding with selective demolition.
 D. Hazardous Materials: It is not expected that hazardous materials will be
- encountered in the Work. See General Conditions for additional clarifications. 1. If materials suspected of containing hazardous materials are
- encountered, do not disturb; immediately notify Architect and Owner. Owner may elect to remove or abate hazardous materials under a separate contract.

E. Unless otherwise indicated, demolition waste becomes property of Contractor.

	 Historic items, relics, antiques, and similar objects including, but not limited to, cornerstones and their contents, commemorative 	PART 1
	plaques and tablets, and other items of interest or value to Owner that may be uncovered during demolition remain the property of Owner. Carefully salvage in a manner to prevent damage and promptly return to Owner.	1.01 SI A. 1.02 FI
F.	Storage or sale of removed items or materials on-site is not permitted.	A.
G.	Utility Service: Maintain existing utilities indicated to remain in service and protect them against damage during selective demolition operations.	PART 2 2.01 B
Η.	Do not close or obstruct building exits or vehicle roadways without Jurisdictional and Owner approval.	2.01 Bi
2 -	PRODUCTS (NOT USED)	
3 -	EXECUTION	
EX	AMINATION	
Α.	Photodocumentation: Before commencement of the Work, take	2.02 M
	photographs of Project site and surrounding areas, including existing items to remain during construction, from different vantage points, as necessary to document condition of existing items to remain for purposes of determining if any damage was the result of construction	A.
	activities.	В.
Β.	Arrange for utility locates. Verify that utilities have been disconnected and capped as necessary to perform work.	2.03 R I A.
C.	Perform necessary measurements and surveys of existing paying and	

- C. Perform necessary measurements and surveys of existing paving and concrete elements that are indicated to be replaced, to document the size and grades to be replicated in their reconstruction
 D. Survey existing conditions and correlate with requirements indicated to
- determine extent of selective demolition required. Inventory and record the condition of items to be removed and reinstalled and items to be removed and salvaged.
- E. When unanticipated mechanical, electrical, or structural elements that conflict with intended function or design are encountered, investigate and measure the nature and extent of conflict. Promptly submit a written report to Architect.
 F. Perform surveys as the Work progresses to detect hazards resulting from
- selective demolition activities.
- 3.02 UTILITY SERVICES AND MECHANICAL/ELECTRICAL SYSTEMS
 A. Existing Services/Systems: Maintain services/systems indicated to remain
- and protect them against damage during selective demolition operations.
- If existing utility interruptions are necessary schedule interruptions of building utilities for hours when building is closed to normal operations, i.e., weekends, evenings, etc. Notify Owner a minimum of 48 hours in advance of all utility interruptions, including those scheduled for off hours.

3.03 PREPARATION

PART

PART

3.01

- 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.

3.04 SELECTIVE DEMOLITION - GENERAL

- A. General: Demolish and remove existing construction only to the extent required by new construction and as indicated. Do not demolish elements beyond what is indicated on Drawings without Architect's or Owner's approval. Use methods required to complete the Work within limitations of governing regulations and as follows:
- 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.
- Do not use explosives.
 Break concrete and masonry into sections less than 3 feet in any dimension.
 Nuisance Dust Control:
- a. Demolition debris that contains dust or other material that could become airborne or create a nuisance shall either be removed from the work site daily, or shall be covered and secured with tarps or sheeting until removed from the site.
- b. Apply a water mist, or other means approved by the Owner, on debris to control or mitigate airborne dust or airborne nuisances, unless the material will become friable (i.e., crumble easily) or will dissolve in water. Friable material and material that may dissolve in water shall be securely covered
- with tarps or sheeting.
 c. Demolition debris that becomes friable when wetted or will dissolve in water shall be stored only on impervious surfaces, field-installed ground sheeting, or other barriers.
- Cut or drill from the exposed or finished side into concealed surfaces to avoid marring existing finished surfaces.
- Do not use cutting torches until work area is cleared of flammable materials.
 Locate selective demolition equipment and remove debris and
- materials so as not to impose excessive loads on supporting walls, floors, or framing.
 8. Dispose of demolished items and materials promptly and properly.
- B. Protection of Existing Facilities: Contractor shall take necessary precautions to protect existing building and site elements.
- C. Removed and Salvaged Items:
- Clean salvaged items.
 Pack or crate items after cleaning. Identify cor
- Pack or crate items after cleaning. Identify contents of containers.
 Store items in a secure area until delivery to Owner.
- Transport items to Owner's storage area designated by Owner.
 Protect items from damage during transport and storage.
- D. Removed and Reinstalled Items:
- Paint equipment to match new equipment.
 Pack or crate items after cleaning and repairing. Identify contents of containers.
- Protect items from damage during transport and storage.
 Reinstall items in locations indicated. Comply with installation requirements for new materials and equipment. Provide connections, supports, and miscellaneous materials necessary to make item functional for use indicated.
- E. Existing Items to Remain: Protect construction indicated to remain against damage and soiling during selective demolition. When permitted by Owner, 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.
- F. Existing structures, facilities, etc. that are damaged or removed due to required construction work, shall be patched, repaired, or replaced, and be left in their original state of repair by the Contractor, to satisfaction of the Architect.

3.05 SELECTIVE DEMOLITION OF SITE ELEMENTS AND UNDERGROUND UTILITIES

- A. General: Protect trees and plants remaining on-site. Repair or replace trees, shrubs, and other vegetation indicated to remain or be relocated that are damaged by construction operations, in a manner approved by Architect and Owner.
- B. Protect other site features indicated to remain in a manner acceptable to the Architect and Owner.
 1. Landscape Features: Retaining walls, Boulders, Landscaping, etc)
 2. Irrigation Systems:
- Underground Utilities: (Storm Drainage, Sanitary Sewer, Electrical, Communications, Gas)
 Remove existing above- and below-grade improvements as indicated

1. Portland Cement Paving, Curbs and Gutters: Sawcut perimeters of

items to be removed. Remove to nearest existing joint where

reused, salvaged, reinstalled, or otherwise indicated to remain Owner's

property, remove demolished materials from Project site in accordance

with local, state, and federal laws and regulations, and legally dispose

2. Transport demolished materials off Owner's property and legally

A. Clean adjacent structures and improvements of dust, dirt, and debris

condition existing before selective demolition operations began.

DIVISION 04 - MASONRY

caused by selective demolition operations. Return adjacent areas to

3. Remove and transport debris in a manner that will prevent spillage

A. General: Except for items or materials indicated to be recycled,

1. Do not allow demolished materials to accumulate on-site.

and necessary to facilitate new construction.

practical. Remove full depth.

of them in an EPA-approved landfill.

on adjacent surfaces and areas.

4. Do not burn demolished materials.

3.06 DISPOSAL OF DEMOLISHED MATERIALS

dispose of them.

3.07 CLEANING

SECTION 04 2613 MASONRY VENEER

I GENERAL SUBMITTALS

. Samples: Submit four samples of decorative block units to illustrate color, texture, and extremes of color range.

IELD CONDITIONS

Cold and Hot Weather Requirements: Comply with requirements of TMS 402/602 or applicable building code, whichever is more stringent. **PRODUCTS**

BRICK UNITS

- Facing Brick: ASTM C216, Type FBS Smooth, Grade SW.
- Color and Texture: to match existing.
 Nominal Size: As indicated on drawings.
- Compressive Strength: As indicated on drawings, measured in accordance with ASTM C67/C67M.

NORTAR AND GROUT MATERIALS

- Masonry Cement: ASTM C91/C91M Type N.
 Colored Mortar: Premixed cement as required to match color on
- existing building.

. Water: Clean and potable.

- Masonry Veneer Anchors: 2-piece anchors that permit differential movement between masonry veneer and structural backup, hot dip
- galvanized to ASTM A 153/A 153M, Class B. 1. Vertical adjustment: Not less than 3-1/2 inches (89 mm).
- 2. Seismic Feature: Provide lip, hook, or clip on end of wire ties to engage or enclose not less than one continuous horizontal joint

reinforcement wire of 0.1483 inch (3.8 mm) diameter. 2.04 FLASHINGS

- A. Metal Flashing Materials:
- Stainless Steel Flashing: ASTM A666, Type 304, soft temper; 26 gauge, 0.0187 inch (0.48 mm) thick; finish 2B to 2D.
 Membrane Asphaltic Flashing Materials:
- Rubberized Asphalt Flashing: Self-adhering polymer modified asphalt sheet; 40 mils (0.040 inch) (1.0 mm) minimum total thickness; 8 mil (0.20 mm) cross-laminated polyethylene bonded to adhesive rubberized asphalt, with a removable release liner.

2.05 ACCESSORIES

A. Weeps:1. Type: Molded PVC grilles, insect resistant.

PART 3 EXECUTION

3.01 COURSING

 A. Establish lines, levels, and coursing indicated. Protect from displacement.

B. Maintain masonry courses to uniform dimension. Form vertical and

- horizontal joints of uniform thickness. C. Brick Units:
- Bond: Running or Soldier to match existing conditions. Recessed bond where required to match existing.
- Coursing: Three units and three mortar joints to equal 8 inches (200 mm).
- 3. Mortar Joints: Concave.

3.02 PLACING AND BONDING

- A. Lay solid masonry units in full bed of mortar, with full head joints, uniformly jointed with other work.
- B. Lay hollow masonry units with face shell bedding on head and bed joints.

3.03 WEEPS/CAVITY VENTS

A. Install weeps in veneer walls at 24 inches (600 mm) on center horizontally on top of through-wall flashing above shelf angles and lintels and at bottom of walls.

3.04 CAVITY MORTAR CONTROL

A. Do not permit mortar to drop or accumulate into cavity air space or to plug weep/cavity vents.

3.05 REINFORCEMENT AND ANCHORAGE - MASONRY VENEER

A. Install horizontal joint reinforcement 16 inches (400 mm) on center.
B. Place masonry joint reinforcement in first and second horizontal joints above and below openings. Extend minimum 16 inches (400 mm) each side of opening.

3.06 MASONRY FLASHINGS

- A. Whether or not specifically indicated, install masonry flashing to divert water to exterior at all locations where downward flow of water will be interrupted.
- B. Terminate flashing up 8 inches (203 mm) minimum on vertical surface of
- C. Lap end joints of flashings at least 6 inches (152 mm), minimum, and
- seal watertight with flashing sealant/adhesive.

DIVISION 06 - WOOD, PLASTICS, AND COMPOSITES SECTION 06 1000

ROUGH CARPENTRY

PART 2 PRODUCTS 1.01 GENERAL REQUIREMENTS

- A. Dimension Lumber: Comply with PS 20 and requirements of specified grading agencies.
- 1. Species: Douglas Fir-Larch, unless otherwise indicated.
- If no species is specified, provide species graded by the agency specified; if no grading agency is specified, provide lumber
- graded by grading agency meeting the specified requirements.
 Grading Agency: Grading agency whose rules are approved by the Board of Review, American Lumber Standard Committee at www.alsc.org, and who provides grading service for the species and grade specified; provide lumber stamped with grade mark unless otherwise indicated.

1.02 DIMENSION LUMBER FOR CONCEALED APPLICATIONS

- A. Sizes: Nominal sizes as indicated on drawings, S4S.
- B. Moisture Content: S-dry or MC19.
- C. Stud Framing (2 by 2 through 2 by 6 (50 by 50 mm through 50 by 150 mm)):
 1. Species: Douglas Fir-Larch.

2. Grade: No. 2.

- 1.03 ACCESSORIES
- A. Fasteners and Anchors:1. Metal and Finish: Hot-dipped galvanized steel complying with
- ASTM A153/A153M for high humidity and preservative-treated wood locations, unfinished steel elsewhere.
- 1.04 FACTORY WOOD TREATMENTA. Treated Lumber and Plywood: Comply with requirements of AWPA U1
 - Use Category System for wood treatments determined by use categories, expected service conditions, and specific applications.

1. Fire-Retardant Treated Wood: Mark each piece of wood with producer's stamp indicating compliance with specified

requirements.

- 2.01 INSTALLATION GENERAL
- A. Select material sizes to minimize waste.
- B. Where treated wood is used on interior, provide temporary ventilation during and immediately after installation sufficient to remove indoor air contaminants.

DIVISION 07 - THERMAL AND MOISTURE PROTECTION

SECTION 07 1113 BITUMINOUS DAMPPROOFING

PART 1 GENERAL 1.01 FIELD CONDITIONS

 Maintain ambient temperatures above 40 degrees F (5 degrees C) for 24 hours before and during application until dampproofing has cured.

PART 2 PRODUCTS 2.01 BITUMINOUS DAMPPROOFING

- A. Bituminous Dampproofing: Cold-applied, spray-grade; asphalt base, volatile petroleum solvents, and other content, suitable for application
- by spray, brush, roller, or squeegee; asbestos-free; suitable for application on vertical and horizontal surfaces.
- Composition: ASTM D4479/D4479M Type I, asbestos free.
 VOC Content: Not more than permitted by local, State, and
- federal regulations.3. Applied Thickness: 1/16 inch (1.5 mm), minimum, wet film.

2.02 BITUMEN MATERIALS

- A. Cold Asphaltic Type:
- Asphalt Primer: ASTM D41/D41M, compatible with substrate.
 2.03 ACCESSORIES

A. Drainage Panel: 1/4-inch (6 mm) thick formed plastic, hollowed sandwich.

- PART 3 EXECUTION 3.01 APPLICATION
- A. Foundation Walls: Apply two coats of asphalt dampproofing

NRCA (WM) applicable requirements.

- B. Foundation Walls: Patch disturbed areas of existing dampproofing with two additional coats of dampproofing of the same generic type.C. Perform this work in accordance with manufacturer's instructions and

SECTION 07 2100 THERMAL INSULATION

- PART 2 PRODUCTS 1.01 APPLICATIONS
- A. Insulation in Metal Framed Walls: Batt insulation with separate vapor retarder.

1.02 MINERAL FIBER BLANKET INSULATION MATERIALS

- A. Flexible Glass Fiber Blanket Thermal Insulation: Preformed insulation, complying with ASTM C665; friction fit.
 1. Flame Spread Index: 75 or less, when tested in accordance with
- ASTM E84.
- 2. Smoke Developed Index: 450 or less, when tested in accordance with ASTM E84.
- Combustibility: Non-combustible, when tested in accordance with ASTM E136, except for facing, if any.
 Thermal Resistance: R-value (RSI-value) of that as indicated on drawings (____).
- 1.03 ACCESSORIES

A. Interior Vapor Retarder: Modified polyethylene/polyacrylate (PE/PA) film reinforced with polyethylene terephthalate (PET) fibers, 12 mil, 0.012 inch (0.30 mm) thick.

- 1. Width: 4.9 feet (1.5 m).
- B. Tape: Reinforced polyethylene film with acrylic pressure sensitive adhesive.
- Application: Sealing of interior circular penetrations, such as pipes or cables.

PART 3 EXECUTION 2.01 BATT INSTALLATION

PART 2 PRODUCTS

1.02 FABRICATION

1.03 ACCESSORIES

PART 3 EXECUTION

2.01 INSTALLATION

PART 1 GENERAL

1.01 SUBMITTALS

distortion or defects.

hooked seams.

B. Primer: Zinc chromate type.

fasteners only where permitted.

B. Seal metal joints watertight.

product.

selection

records.

1.02 QUALITY ASSURANCE

1.03 WARRANTY

PART 2 PRODUCTS

A. Scope:

B. Form pieces in longest possible lengths.

1.01 SHEET MATERIALS

- A. Install insulation and vapor retarder in accordance with manufacturer's instructions.
- B. Install in exterior wall and roof spaces without gaps or voids. Do not compress insulation.

SECTION 07 6200

SHEET METAL FLASHING AND TRIM

A. Galvanized Steel: ASTM A653/A653M, with G90/Z275 zinc coating;

minimum 24-gauge, 0.0239-inch (0.61 mm) thick base metal.

A. Form sections true to shape, accurate in size, square, and free from

C. Form material with flat lock seams, except where otherwise indicated;

D. Exposed Sealants: ASTM C920; elastomeric sealant, with minimum

A. Secure flashings in place using concealed fasteners, and use exposed

SECTION 07 9200

JOINT SEALANTS

A. Product Data: Submit manufacturer's technical datasheets for each

content, hardness, cure time, and color availability.

List of backing materials approved for use with the specific

1. Physical characteristics, including movement capability, VOC

3. Substrates that product is known to satisfactorily adhere to and

B. Color Cards for Selection: Where sealant color is not specified, submit

manufacturer's color cards showing standard colors available for

Preinstallation Field Adhesion Test Reports log within 10 days after

A. Destructive Field Adhesion Test: Test for adhesion in accordance with

2. Minimum Elongation Without Adhesive Failure: Consider the tail at

movement capability of the sealant in percent by two; then

multiply 1 inch (25.4 mm) by that percentage; if adhesion failure

occurs before the 1-inch mark is that distance from the substrate,

elongation, take necessary measures to correct conditions and

rest, not under any elongation stress; multiply the stated

3. If either adhesive or cohesive failure occurs before minimum

A. See Section 01 7800 - Closeout Submittals for additional warranty

Owner's name and register with manufacturer.

a. Wall expansion and control joints.

e. Other joints indicated below

not limited to, the following items.

b. Other joints indicated below.

3. Do not seal the following types of joints:

a. Intentional weep holes in masonry.

construction.

construction.

section.

A. Colors: To match adjacent finish.

otherwise indicated.

indicated.

2.02 JOINT SEALANTS - GENERAL

B. Manufacturer Warranty: Provide 2-year manufacturer warranty for

1. Exterior Joints: Seal open joints, whether or not the joint is

c. Joints between different exposed materials.

2. Interior Joints: Do not seal interior joints unless specifically

d. Openings below ledge angles in masonry.

installed sealants and accessories that fail to achieve a watertight seal,

exhibit loss of adhesion or cohesion, or do not cure. Complete forms in

indicated on drawings, unless specifically indicated not to be

sealed. Exterior joints to be sealed include, but are not limited to:

b. Joints between door, window, and other frames and adjacent

indicated to be sealed. Interior joints to be sealed include, but are

a. Joints between door, window, and other frames and adjacent

b. Joints indicated to be treated with manufactured expansion

joint cover, or some other type of sealing device.

d. Joints where installation of sealant is specified in another

e. Joints between suspended panel ceilings/grid and walls

1. Lap Joints in Sheet Metal Fabrications: Butyl rubber, noncuring.

c. Joints where sealant is specified to be provided by

manufacturer of product to be sealed.

B. Exterior Joints: Use nonsag nonstaining silicone sealant, unless

C. Interior Joints: Use nonsag polyurethane sealant, unless otherwise

retest; record each modification to products or installation

completion of tests; include bagged test samples and photographic

movement capability as recommended by manufacturer for substrates

A. Fasteners: Galvanized steel, with soft neoprene washers.

C. Concealed Sealants: Non-curing butyl sealant.

product to be used; include the following:

with which it is compatible.

4. Substrates the product should not be used on.

5. Substrates for which use of primer is required.

C. Preinstallation Field Adhesion Test Reports: Submit filled out

ASTM C1521, using Destructive Tail Procedure.

the test has failed.

procedures.

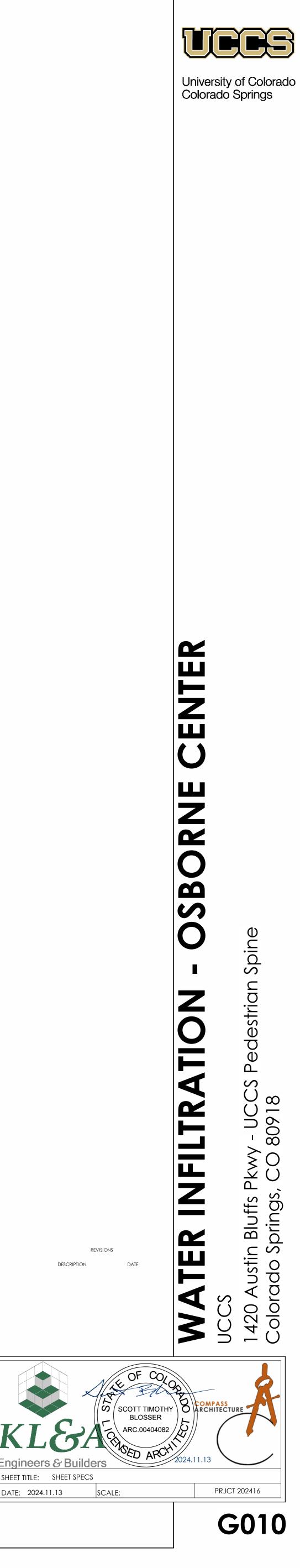
requirements.

2.01 JOINT SEALANT APPLICATIONS

1. Sample: At least 18 inches (457 mm) long.

to be sealed; color to match adjacent material.

at moving joints, use sealed lapped, bayonet-type or interlocking



.03 NONSAG JOINT SEALANTS

- A. Nonstaining Silicone Sealant: ASTM C920, Grade NS, Uses M and A; not expected to withstand continuous water immersion or traffic. 1. Movement Capability: Plus and minus 50 percent, minimum.
- 2. Nonstaining to Porous Stone: Nonstaining to light-colored natural stone when tested in accordance with ASTM C1248.
- 3. Dirt Pick-Up: Reduced dirt pick-up compared to other silicone sealants 4. Color: To be selected by Architect from manufacturer's standard
- range. B. Polyurethane Sealant: ASTM C920, Grade NS, Uses M and A; single or multi-component; not expected to withstand continuous water
- immersion or traffic. 1. Movement Capability: Plus and minus <u>percent</u>, minimum. Noncuring Butyl Sealant: Solvent-based, single component, nonsag, nonskinning, nonhardening, nonbleeding; non-vapor permeable;
- intended for fully concealed applications.

PART 3 EXECUTION 3.01 EXAMINATION

- A. Preinstallation Adhesion Testing: Install a sample for each test location indicated in the test plan. 1. Test each sample as specified in PART 1 under QUALITY
 - ASSURANCE article.
- 2. Record each test on Preinstallation Adhesion Test Log as indicated.
- If any sample fails, review products and installation procedures, consult manufacturer, or take other measures that are necessary to ensure adhesion; retest in a different location; if unable to obtain satisfactory adhesion, report to Architect.
- 4. After completion of tests, remove remaining sample material and prepare joints for new sealant installation. .02 INSTALLATION
- A. Install this work in accordance with sealant manufacturer's requirements for preparation of surfaces and material installation instructions.
- B. Provide joint sealant installations complying with ASTM C1193.
- C. Install bond breaker backing tape where backer rod cannot be used.
- D. Install sealant free of air pockets, foreign embedded matter, ridges, and sags, and without getting sealant on adjacent surfaces.
- E. Nonsag Sealants: Tool surface concave, unless otherwise indicated;
- remove masking tape immediately after tooling sealant surface. F. Concrete Floor Joint Filler: After full cure, shave joint filler flush with top of concrete slab.

DIVISION 09 - FINISHES

SECTION 09 0561 COMMON WORK RESULTS FOR FLOORING PREPARATION

PART 1 GENERAL .01 SUBMITTALS

- A. Floor Covering and Adhesive Manufacturers' Product Literature: For each specific combination of substrate, floor covering, and adhesive
- to be used; showing:
- B. Testing Agency's Report: 1. Moisture and alkalinity (pH) test reports.
- 2. Recommendations for remediation of unsatisfactory surfaces.
- C. Adhesive Bond and Compatibility Test Report. .02 QUALITY ASSURANCE
- A. Moisture and alkalinity (pH) testing shall be performed by an independent testing agency employed and paid by Contractor.

PART 2 PRODUCTS

- 2.01 MATERIALS
- A. Alternate Flooring Adhesive: Floor covering manufacturer's recommended product, suitable for the moisture and pH conditions present; low-VOC. In the absence of any recommendation from
- flooring manufacturer, provide a product recommended by adhesive manufacturer as suitable for substrate and floor covering and for conditions present. PART 3 EXECUTION
- 3.01 CONCRETE SLAB PREPARATION
- A. Perform following operations in the order indicated:
- 1. Existing concrete slabs (on-grade and elevated) with existing floor coverinas: a. Visual observation of existing floor covering, for adhesion,
- water damage, alkaline deposits, and other defects. b. Removal of existing floor covering.
- 2. Existing concrete slabs with coatings or penetrating
- sealers/hardeners/dustproofers: a. Do not attempt to remove coating or penetrating material. b. Prepare surface according to recommendations of remedial coating manufacturer and according to ASTM D4259.
- 3. Preliminary cleaning.
- Specified remediation, if required. Patching, smoothing, and leveling, as required.
- Other preparation specified.
- Adhesive bond and compatibility test. 8. Protection.
- 3.02 ADHESIVE BOND AND COMPATIBILITY TESTING
- A. Comply with requirements and recommendations of floor covering manufacturer.

SECTION 09 2116 GYPSUM BOARD ASSEMBLIES

PART 2 PRODUCTS

- .01 GYPSUM BOARD ASSEMBLIES A. Provide completed assemblies complying with ASTM C840 and GA-216.
- B. Interior Partitions, Indicated as Acoustic: Provide completed assemblies with the following characteristics: 1. Acoustic Attenuation: STC of 45-49 calculated in accordance
- with ASTM E413, based on tests conducted in accordance with ASTM E90.
- C. Fire-Resistance-Rated Assemblies: Provide completed assemblies with the following characteristics: 1. Fire-Resistance-Rated Partitions: UL listed assembly No. U-419; 1
- hour ratina 2. UL Assembly Numbers: Provide construction equivalent to that listed for the particular assembly in the current UL (FRD).
- .02 BOARD MATERIALS
- A. Gypsum Wallboard: Paper-faced gypsum panels as defined in ASTM C1396/C1396M; sizes to minimize joints in place; ends square cut. 1. Application: Use for vertical surfaces and ceilings, unless otherwise
 - indicated.
- 2. Glass mat faced gypsum panels, as defined in ASTM C1658/C1658M, suitable for paint finish, of the same core type and
- thickness may be substituted for paper-faced board. Thickness:
- a. Vertical Surfaces: 5/8 inch (16 mm).
- b. Ceilings: 5/8 inch (16 mm). 1.03 GYPSUM BOARD ACCESSORIES
- A. Acoustic Insulation: ASTM C665; preformed mineral-fiber, friction fit
- type, unfaced; thickness as required for STC. B. Beads, Joint Accessories, and Other Trim: ASTM C1047, rigid plastic,
- galvanized steel, or rolled zinc, unless noted otherwise. Corner Beads: Low profile, for 90 degree outside corners. 2. Architectural Reveal Beads:
- a. Reveal Width: 1/2 inch (12 mm).
- C. Joint Materials: ASTM C475/C475M and as recommended by gypsum board manufacturer for project conditions. 1. Fiberglass Tape: 2 inch (50 mm) wide, coated glass fiber tape for joints and corners, except as otherwise indicated.
- 2. Joint Compound: Setting type, field-mixed. D. Screws for Fastening of Gypsum Panel Products to Cold-Formed Steel Studs Less than 0.033 inches (0.84 mm) in Thickness and Wood Members: ASTM C1002; self-piercing tapping screws, corrosionresistant.
- E. Screws for Fastening of Gypsum Panel Products to Steel Members from 0.033 to 0.112 inch (0.84 to 2.84 mm) in Thickness: ASTM C954; steel drill screws, corrosion-resistant.

PART 3 EXECUTION

- 2.01 FRAMING INSTALLATION
- A. Metal Framing: Install in accordance with ASTM C754 and
- manufacturer's instructions. .02 ACOUSTIC ACCESSORIES INSTALLATION
- A. Acoustic Insulation: Place tightly within spaces, around cut openings, behind and around electrical and mechanical items within partitions, and tight to items passing through partitions.
- .03 BOARD INSTALLATION

- A. Comply with ASTM C840, GA-216, and manufacturer's instructions. Install to minimize butt end joints, especially in highly visible locations.
- B. Fire-Resistance-Rated Construction: Install gypsum board in strict compliance with requirements of assembly listing.
- 2.04 JOINT TREATMENT
- A. Glass Mat Faced Gypsum Board and Exterior Glass Mat Faced Sheathing: Use fiberalass joint tape, embed and finish with setting type joint compound.
- B. Finish gypsum board in accordance with levels defined in ASTM C840, as follows: 1. Level 5: Walls and ceilings to receive semi-gloss or gloss paint finish
- and other areas specifically indicated. 2. Level 1: Fire-resistance-rated wall areas above finished ceilings, whether or not accessible in the completed construction.

SECTION 09 5100 **ACOUSTICAL CEILINGS**

PART 1 GENERAL 1.01 SUBMITTALS

A. Samples: Submit two samples 6 by 6 inch (____by____ mm) in size illustrating material and finish of acoustical units.

PART 2 PRODUCTS 2.01 ACOUSTICAL UNITS

- A. Acoustical Panels: Painted mineral fiber, with the following
- characteristics: 1. Classification: ASTM E1264 Type III.
- 2. Size: 24 by 24 inches (610 by 610 mm).
- 3. Thickness: 3/4 inch (19 mm).
- 4. Panel Edge: Reveal. 5. Tile Edge: match existing.
- a. Joint: Kerfed and rabbeted.
- 6. Color: White. 7. Suspension System: Exposed grid.

2.02 SUSPENSION SYSTEM(S)

- A. Metal Suspension Systems General: Complying with ASTM C635/C635M; die cut and interlocking components, with perimeter moldings, hold down clips, stabilizer bars, clips, and splices as required. B. Exposed Suspension System: Stainless steel grid and cap.
- 1. Structural Classification: Light-duty, when tested in accordance with ASTM C635/C635M. 2. Profile: Tee; 15/16 inch (24 mm) face width.

3. Color: White. 2.03 ACCESSORIES

A. Support Channels and Hangers: Galvanized steel; size and type to suit application, seismic requirements, and ceiling system flatness requirement specified.

A. Install suspension system in accordance with ASTM C636/C636M, ASTM

B. Lay out system to a balanced grid design with edge units no less than

A. Install acoustical units in accordance with manufacturer's instructions.

SECTION 09 6500

RESILIENT FLOORING

A. Product Data: Provide data on specified products, describing physical

A. Resilient Base: ASTM F1861, Type TS, rubber, vulcanized thermoset; style

B. Selection Samples: Submit manufacturer's complete set of color

A. Starting installation constitutes acceptance of subfloor conditions.

A. Fit joints tightly and make vertical. Maintain minimum dimension of 18

SECTION 09 6813

A. Product Data: Provide data on specified products, describing physical

B. Samples: Submit two carpet tiles illustrating color and pattern design

A. Tile Carpeting: Tufted, manufactured in one color dye lot.

2. Tile Size: 24 by 24 inch (____by___ mm), nominal.

content as specified in Section 01 6116.

and performance characteristics; sizes, patterns, colors available, and

1. Product: Diffuse Color 24x24 Ecoworx Tile manufactured by Shaw

1. Compatible with materials being adhered; maximum VOC

A. Blend carpet from different cartons to ensure minimal variation in color

C. Lay carpet tile in monolithic pattern, with pile direction parallel to next

SECTION 09 9123

INTERIOR PAINTING

A. Scope: Finish interior surfaces exposed to view, unless fully factory-

1. Items factory-finished unless otherwise indicated; materials and

products having factory-applied primers are not considered

4. Fire rating labels, equipment serial number and capacity labels,

5. Stainless steel, anodized aluminum, bronze, terne-coated stainless

8. Brick, architectural concrete, cast stone, integrally colored plaster,

bar code labels, and operating parts of equipment.

B. Cut carpet tile clean. Fit carpet tight to intersection with vertical

TILE CARPETING

3. All terminations at end of a roll should be made a minimum of 18 inches

B. Install in accordance with manufacturer's written instructions.

and performance characteristics; including sizes, patterns and colors

B. Fit acoustical units in place, free from damaged edges or other defects

E580/E580M, and manufacturer's instructions and as supplemented in

- B. Hanger Wire: 12 gauge, 0.08 inch (2 mm) galvanized steel wire.
- C. Perimeter Moldings: Same metal and finish as grid.

this section.

3.02 INSTALLATION - SUSPENSION SYSTEM

3.03 INSTALLATION - ACOUSTICAL UNITS

50 percent of acoustical unit size.

detrimental to appearance and function.

available; and installation instructions.

samples for Architect's initial selection.

1. Height: 4 inches (100 mm).

inches (45 mm) between joints.

2. Thickness: 0.125 inch (3.2 mm).

PART 3 EXECUTION 3.01 PREPARATION

PART 1 GENERAL

1.01 SUBMITTALS

PART 2 PRODUCTS

2.01 RESILIENT BASE

PART 3 EXECUTION

PART 1 GENERAL

1.01 SUBMITTALS

PART 2 PRODUCTS

2.02 ACCESSORIES

PART 3 EXECUTION

3.01 INSTALLATION

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Adhesives:

match

2.01 MATERIALS

as scheduled.

3. Finish: Satin.

4. Length: Roll.

3.02 INSTALLATION - RESILIENT BASE

from any corner.

method of installation.

Contract.

3. Color: Cool Gold.

surfaces without gaps.

unit, set parallel to building lines.

finished and unless otherwise indicated.

2. Items indicated to receive other finishes.

3. Items indicated to remain unfinished.

6. Floors, unless specifically indicated.

B. Do Not Paint or Finish the Following Items:

factory finished.

steel, and lead items.

7. Ceramic and other tiles.

and stucco.

for each carpet color selected.

3.01 INSTALLATION - GENERAL

5. Color: Burnt Umber.

A. Install after major above-ceiling work is complete.

B. Coordinate the location of hangers with other work.

9. Glass.

10. Concealed pipes, ducts, and conduits.

1.02 SUBMITTALS

A. Samples: Submit three paper "draw down" samples, 8-1/2 by 11 inches (216 by 279 mm) in size, illustrating range of colors available for each finishing product specified. 1. Where sheen is specified, submit samples in only that sheen.

PART 2 PRODUCTS

2.01 PAINTS AND FINISHES - GENERAL

- A. Paints and Finishes: Ready-mixed, unless intended to be a field-
- catalyzed paint. 1. Provide paints and finishes of a soft paste consistency, capable of being readily and uniformly dispersed to a homogeneous coating, with good flow and brushing properties, and capable of drying or curing free of streaks or sags.
- 2. Supply each paint material in quantity required to complete entire project's work from a single production run. 3. Do not reduce, thin, or dilute paint or finishes or add materials
- unless such procedure is specifically described in manufacturer's product instructions.

2.02 PAINT SYSTEMS - INTERIOR

- A. Paint I-OP Interior Surfaces to be Painted, Unless Otherwise Indicated: Including gypsum board.
- 1. Two top coats and one coat primer. 2. Top Coat(s): Interior Latex; MPI #43, 44, 52, 53, 54, or 114.
- 3. Top Coat Sheen: a. Satin: MPI gloss level 4; use this sheen for items subject to frequent touching by occupants, including door frames and railinas.

PART 3 EXECUTION

- 3.01 EXAMINATION A. Measure moisture content of surfaces using an electronic moisture meter. Do not apply finishes unless moisture content of surfaces is
- below the following maximums: 1. Gypsum Wallboard: 12 percent.

3.02 PREPARATION

- A. Clean surfaces thoroughly and correct defects prior to application. B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the
- project conditions. 3.03 APPLICATION
- A. Apply products in accordance with manufacturer's written instructions and recommendations in "MPI Architectural Painting Specification Manual''
- B. Do not apply finishes to surfaces that are not dry. Allow applied coats to dry before next coat is applied.

SECTION 09 9600 HIGH-PERFORMANCE COATINGS

PART 1 GENERAL 1.01 SUBMITTALS

- A. Product Data: Provide complete list of all products to be used, with the
- following information for each: 1. Manufacturer's name, product name and/or catalog number,
- and general product category (e.g. "alkyd enamel").
- 2. MPI product number (e.g. MPI #47). 3. Cross-reference to specified coating system(s) product is to be
- used in; include description of each system. B. Samples: Submit two samples 8 by 8 inch (203 by 203 mm) in size
- illustrating colors available for selection.

PART 2 PRODUCTS 2.01 HIGH-PERFORMANCE COATINGS

- A. Provide coating systems that meet the following minimum performance criteria, unless more stringent criteria are specified:
- 2.02 TOP COAT MATERIALS
- A. Coatings General: Provide complete multi-coat systems formulated and recommended by manufacturer for the applications indicated, in the thicknesses indicated; number of coats specified does not include primer or filler coat.
- B. Latex Coating Type ____: 1. Top Coat(s): Latex, Interior, High Performance Architectural; MPI
- #138, #139, #140, #141, #142. a. Sheen: Satin. b. Products:
 - 1) PPG Paints; Prominence Interior Latex, 84-3410 Series, Satin: www.ppgpaints.com/#sle. (MPI #139)

C. Shellac: Pure, white type. 2.03 PRIMERS

- A. Primers: Provide the following unless other primer is required or
- recommended by coating manufacturer. 1. Anti-Corrosive for Metal, Alkyd; MPI #79.
- a. Products:
 - 1) PPG Paints; Speedhide Interior/Exterior Rust Inhibitive Steel Primer, 6-212 Series: www.ppgpaints.com/#sle. (MPI #79)
- 2.04 ACCESSORY MATERIALS
- A. Accessory Materials: Provide primers, sealers, cleaning agents, cleaning cloths, sanding materials, and clean-up materials as required for final completion of coated surfaces.

PART 3 EXECUTION 3.01 PREPARATION

- A. Clean surfaces of loose foreign matter.
- B. Remove substances that would bleed through finished coatings. If
- unremovable, seal surface with shellac. C. Remove finish hardware, fixture covers, and accessories and store.

3.02 PRIMING

- A. Apply primer to all surfaces, unless specifically not required by coating manufacturer. Apply in accordance with coating manufacturer's instructions.
- 3.03 COATING APPLICATION
- A. Apply coatings in accordance with manufacturer's written instructions, to thicknesses specified and recommendations in MPI - Architectural Painting and Specification Manual.
- B. Apply in uniform thickness coats, without runs, drips, pinholes, brush marks, or variations in color, texture, or finish. Finish edges, crevices, corners, and other changes in dimension with full coating thickness.

GENERAL PROJECT INFORMATION AND REQUIREMENTS

GENERAL CONTRACTOR'S RESPONSIBILITIES

ALL NEW WORK IS TO COMPLY WITH UCCS DESIGN AND CONSTRUCTION STANDARDS.

GENERAL CONTRACTOR IS RESPONSIBLE TO COORDINATE INSPECTION SERVICES PROVIDED BY A STATE INSPECTOR. FEES FOR MEP, FIRE DEPT. FEES AND REQUIRED PERMITS TO BE BY GENERAL CONTRACTOR. FEES FOR STATE ARCHITECT INSPECTIONS BY OWNER. CONTRACTOR ARE RSPONSIBLE FOR MAINTAINING THE INTEGRITY OF FIRE RATED ASSEMBLIES WHEREEVER AND WHENEVER THIER WORK PENETRATES OR BREAKS THE INTEGRITY. FURNISH AND INSTALL FIRE STOPPING AT ALL OPENINGS AROUND PIPES, CONDUIT, STRUCTURAL MEMBERS, ETC. IN FIRE RATED ASSEMBLIES.

PARKING, TRASH REMOVAL, TEMPORARY FACILITIES, DELVERIES

PARKING IS FREE DURING SEMESTER BREAKS, WEEKENDS AND HOLIDAYS THAT CLASSES ARE NOT IN SESSION. OTHERWISE, CONTRACTOR IS RESPONSIBLE FOR PARING FEES. PARKING PERMIT CAN BE PURCHASED AT THE PARKING OFFICE LOCATED ON THE FIRST LEVEL OF GATEWAY HALL.

GENERAL CONTRACTOR IS RESPONSIBLE FOR TRASH AND RECYCLING REMOVAL. COORDINATE DUMPSTER LOCATIONS WITH UCCS PROJECT MANAGER.

SCHEDULE, WORK HOURS AND BUILDING ACCESS:

WORK TO BE STARTED AND COMPLETED AS STATED IN THE BID FORMS. ACTIVITIES CAUSING NOISE, VIBRATION, ODORS, DUST ETC. AND ACTIVITIES WHICH REQUIRE CLOSURE OF PART OF THE BUIDING OR INTERRUPTION OF UTILITY SERVICES MUST BE COORDINATED WTIH OWNER'S SCHEDULE ARRANGE BUILDING ACCESS WITH UCCS PROJECT MANAGER.

ALL PUBLIC MEANS OF EGRESS SHALL BE OPEN AND OPERATIONAL DURING CONSTRUCTION. CONTRACTOR SHALL NOT BLOCK OR OBSTRUCT HALLWAYS, STAIRS, DOORS, ETC. FOR THE DURATION OF THE PROJECT.

CONTRACTOR TO PROVIDE DUST PARTITION OF ADJACENT SPACES DURING CONSTRUCTION AND IS RESPONSIBLE FOR MAINTAINING THE CLEANLINESS OF THE SITE INCLUDING STAGING AREAS.

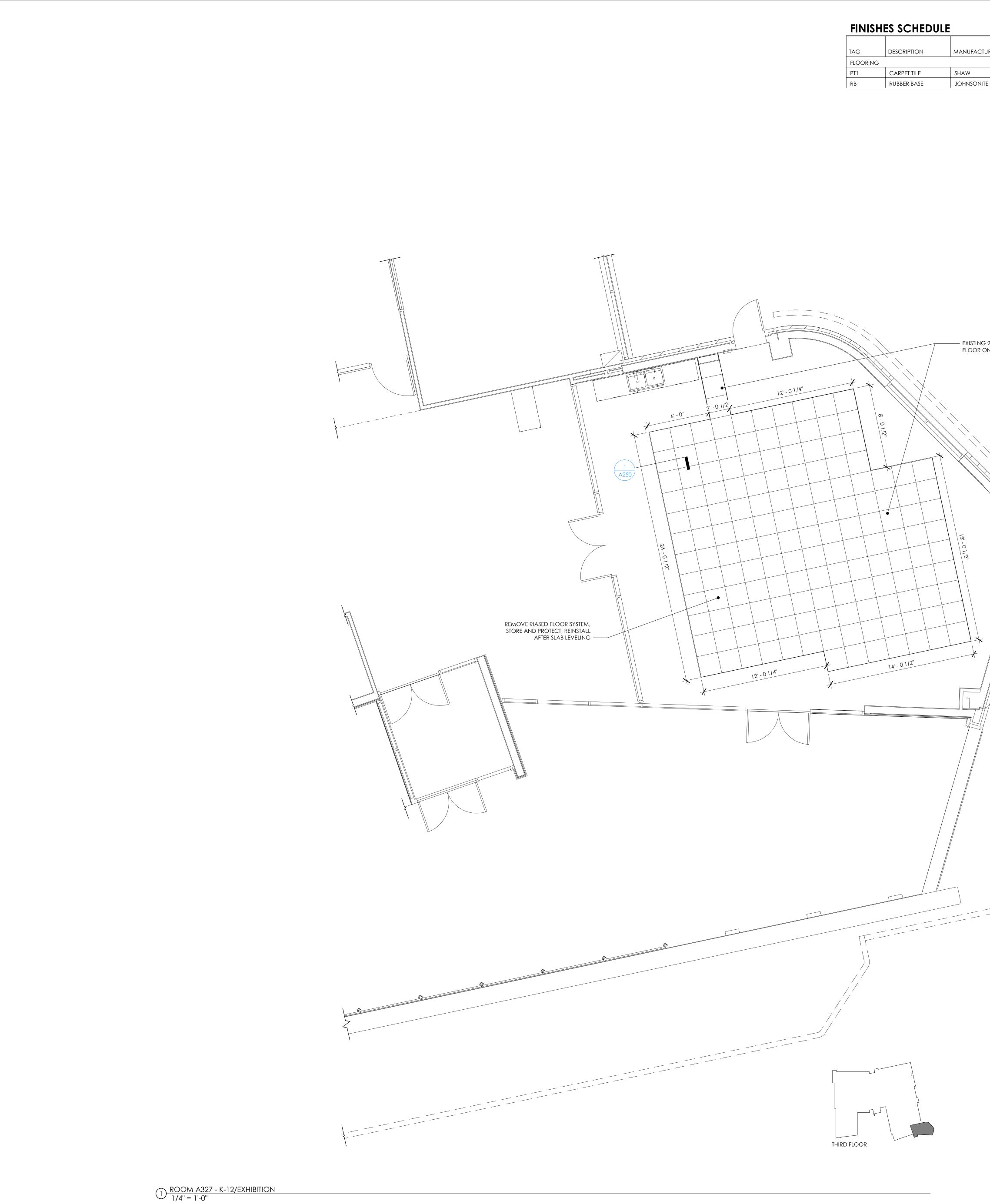
GENERAL CONSTRUCTION NOTES

- REGULATORY AGENCIES, APPLICABLE BUILDING CODES AND REQUIREMENTS. 2. THE GENERAL CONTRACTOR AND SUBCONTRACTORS SHALL PURCHASE AND MAINTAIN CERTIFICATES OF INSURANCE WITH RESPECT TO WORKMEN'S COMPENSATION, PUBLIC, LIABILITY, AND PROPERTY DAMAGE FOR THE LIMITS AS REQUIRED BY LAW, THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR INITIATING, MAINTAINING, AND SUPERVISING ALL SAFETY PRECAUTIONS IN CONNECTION WITH THE WORK.
- 3. UPON SUBMITTAL OF CONSTRUCTION COSTS, THE GENERAL CONTRACTOR SHALL ALSO SUBMIT A SCHEDULE OF VALUES AND A SPECIFIC CONSTRUCTION SCHEDULE INDICATING THE REQUIRED CONSTRUCTION TIME FOR ALL SUBCONTRACTORS AND GENERAL CONSTRUCTION WORK TO THE OWNER AND ARCHITECT. 4. THE GENERAL CONTRACTOR SHALL PROVIDE PROTECTION TO ALL EXISTING FINISHES IN THE EXISTING BUILDING AND SHALL BE
- RESPONSIBLE TO REPAIR ANY DAMAGES CAUSED BY HIM OR HIS SUBCONTRACTORS. 5. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR SECURITY OF THE PROJECT AND SHALL COORDINATE ALL CIVIL, MECHANICAL, GENERAL CONSTRUCTION WORK SHOWN AT VARIOUS LOCATIONS THROUGHOUT THE DRAWINGS WHETHER OR NOT CROSS REFERENCED. MECHANICAL AND ELECTRICAL ITEMS MAY OCCUR WHICH ARE NOT SHOWN ON THE ARCHITECTURAL FLOOR
- PLANS, REFLECTED CEILING PLANS, OR ROOF PLAN. 6. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS PRIOR TO COMMENCEMENT OF WORK, INSPECTIONS, AND APPROVALS IN ALL FIELDS OF HIS WORK AND OBTAINING THE FINAL "CERTIFICATE OF OCCUPANCY".
- 7. THE GENERAL CONTRACTOR SHALL HAVE ON SITE, THE APPROVED CONSTRUCTION DRAWINGS AND BUILDING PERMIT. 8. THE GENERAL CONTRACTOR AND HIS SUBCONTRACTORS SHALL VISIT AND INSPECT THE SITE PRIOR TO THE START OF CONSTRUCTION. 9. THE GENERAL CONTRACTOR SHALL BRING TO THE ATTENTION OF THE ARCHITECT ANY CODE VIOLATIONS, OR INCONSISTENCIES
- WHICH THE GENERAL CONTRACTOR OBSERVES AS EXISTING FIELD CONDITIONS OR IN THE CONTRACT DRAWINGS. 10. RESOLUTION OF ALL QUESTIONS OR VARIANCES MUST BE THROUGH THE ARCHITECT BY WRITTEN ADDENDA OR CHANGE ORDER. 11. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND PAYING FOR ALL PERMITS NEEDED TO COMPLETE THIS PROJECT. 12. ALL WASTE AND REFUSE SHALL BE REMOVED FROM THE PREMISES AND DISPOSED OF BY THE GENERAL CONTRACTOR. THE PREMISES SHALL BE LEFT COMPLETELY CLEAR AND CLEAN TO THE SATISFACTION OF THE OWNER. THIS INCLUDES CLEANING OF ALL GLASS,
- METAL FRAMES, AND FLOOR FINISHES. 13. THE GENERAL CONTRACTOR SHALL PROVIDE SAMPLES OF ALL FINISHED MATERIALS TO THE OWNER FOR APPROVAL PRIOR TO PURCHASE. 14. CUT SHEETS OF ALL PRODUCTS, INCLUDING ELECTRICAL AND MECHANICAL ITEMS, MUST BE SUBMITTED AND WRITTEN APPROVAL
- OBTAINED FROM THE OWNER PRIOR TO PURCHASE AND INSTALLATION 15. IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO BE AWARE OF THE AVAILABILITY OF ALL MATERIALS WELL IN ADVANCE OF THE ESTIMATED DELIVERY TIME. NO SUBSTITUTIONS WILL BE MADE FOR MATERIALS DUE TO THEIR UNAVAILABILITY WITHIN TWO WEEKS OF SCHEDULED COMPLETION. ANY PROBLEMS REGARDING AVAILABILITY OF FINISH MATERIALS ARE TO BE BROUGHT TO THE OWNER'S
- ATTENTION IMMEDIATELY ON NOTICE TO PROCEED. 16. ALL SUBSTITUTIONS AS A RESULT OF NOTE 16, MUST BE APPROVED BY THE OWNER. THE GENERAL CONTRACTOR SHALL SUPPLY COMPLETE TECHNICAL DATA AND A STATEMENT OF THE PRICE DIFFERENCES SUCH SUBSTITUTIONS WILL MAKE (ADDITIONS. DEDUCTIONS, OR NO CHANGE) IN THE CONTRACT PRICE AND THE COMPLETION DATE. 17. THE GENERAL CONTRACTOR SHALL PROVIDE AND INSTALL ADEQUATE NON-COMBUSTIBLE WOOD BLOCKING WITHIN THE STEEL
- STUDS AS REQUIRED BY THE CONSTRUCTION DOCUMENTS BEHIND WALL HUNG SHELVING, CABINETS, GRAB BARS, TOWEL DISPENCERS, ETC. AND OTHER ITEMS REQUIRING BACKING OR BLOCKING. 18. ANY DISCREPANCIES BETWEEN THE ARCHITECTURAL DRAWINGS AND CONSTRUCTION NOTES ARE TO BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IMMEDIATELY FOR RESOLUTION.
- 19. THE GENERAL CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR ALL FABRICATED ITEMS FOR THE ARCHITECT'S REVIEW PRIOR TO IMPLEMENTING FABRICATION. 20. ALL HEIGHTS ARE DIMENSIONED FROM TOP OF EXISTING SLAB UNLESS NOTED OTHERWISE "A.F.F." (ABOVE FINISH FLOOR). 21. "TYPICAL" MEANS IDENTICAL FOR ALL SAME CONDITIONS UNLESS OTHERWISE NOTED. "SIMILAR" MEANS COMPARABLE
- CHARACTERISTICS FOR THE CONDITIONS NOTED. VERIFY DIMENSIONS AND ORIENTATION ON PLAN WITH THE ARCHITECT. 22. ALL DIMENSIONS NOTED "CLEAR" OR "CLR" ARE FOR EQUIPMENT CLEARANCES AND MUST BE STRICTLY MAINTAINED. THE GENERAL CONTRACTOR SHALL VERIFY ALL CLEARANCE REQUIREMENTS PRIOR TO CONSTRUCTION OF WALLS OR OPENINGS.
- 23. ALL DIMENSIONS NOTED "VERIFY" OR V.I.F. ARE TO BE CHECKED BY THE GENERAL CONTRACTOR PRIOR TO CONSTRUCTION. ANY VARIATIONS ARE TO BE REPORTED TO THE ARCHITECT IMMEDIATELY FOR RESOLUTION. 24. ALL PARTITIONS ARE DIMENSIONED STUD TO STUD, FACE OF MASONRY, CENTERLINE OF COLUMN, FACE OF EXISTING UNLESS
- OTHERWISE NOTED. DIMENSIONS OF INTERIOR CASEWORK ARE FROM FACE OF FINISH WALL. 25. ALL GYPSUM BOARD PARTITIONS SHALL BE TAPED, SANDED SMOOTH AND FINISHED TO A LEVEL 4 FINISH.
- 26. THE CEILING VENTS, GRILLS, RADIATORS, ETC. SHALL BE PAINTED TO MATCH THEIR RESPECTIVE ADJACENT SURFACES. 27. NEW GYPSUM BOARD SOFFITS ARE TO BE PAINTED ON THE UNDERSIDE. 28. ALL INTERIOR FINISHES MUST CONFORM TO THE REQUIREMENTS OF I.B.C. FIRE RESISTIVE STANDARDS OF FIRE PROTECTION. 29. ALL MILLWORK SHALL BE CONSTRUCTED AND INSTALLED BY THE GENERAL CONTRACTOR. THE GENERAL CONTRACTOR SHALL
- COORDINATE ALL ELECTRICAL AND MECHANICAL/PLUMBING SYSTEMS THAT INTERFACE WITH THE MILLWORK. 30. ALL MILLWORK SHALL COMPLY WITH CUSTOM GRADE ARCHITECTURAL WOODWORK QUALITY STANDARDS AND GUIDE SPECIFICATIONS AS PUBLISHED BY ARCHITECTURAL WOODWORK INSTITUTE.
- 31. ALL ANGLES ARE 45 OR 90 DEGREES IN PLAN UNLESS OTHERWISE NOTED. 32. FINISH HANDLE HEIGHT OF ALL FIRE EXTINGUISHER CABINETS SHALL BE 48" A.F.F.- LOCATE PER FIRE DEPARTMENT. 33. CONTRACTOR TO INSTALL 5/8" GYP BD ON INSIDE OF ALL EXISTING EXTERIOR WALLS TO B.O. DECK



G011





FINISHES SCHEDULE								
TAG	DESCRIPTION	MANUFACTURER	PRODUCT	SIZE	COLOR/FINISH	COMMENTS		
FLOORING								
PT1	CARPET TILE	SHAW	DIFFUSE	24"x24"	COOL GOLD	MONOLITHIC		
RB RUBBER BASE		JOHNSONITE	TRADITIONAL COVE	4"	BURNT UMBER	ROLL		

FLOOR PLAN GENERAL NOTES

EXTERIOR DIMENSIONS ARE TO OUTSIDE OF STUD
 INTERIOR DIMENSIONS ARE TO RIGHT AND TOP OF STUD

- EXISTING 24''x24'' ACCESS FLOOR ON 6" DEPRESSION

1. PROVIDE NEW CARPET TILE THROUGHOUT ENTIRE ROOM.

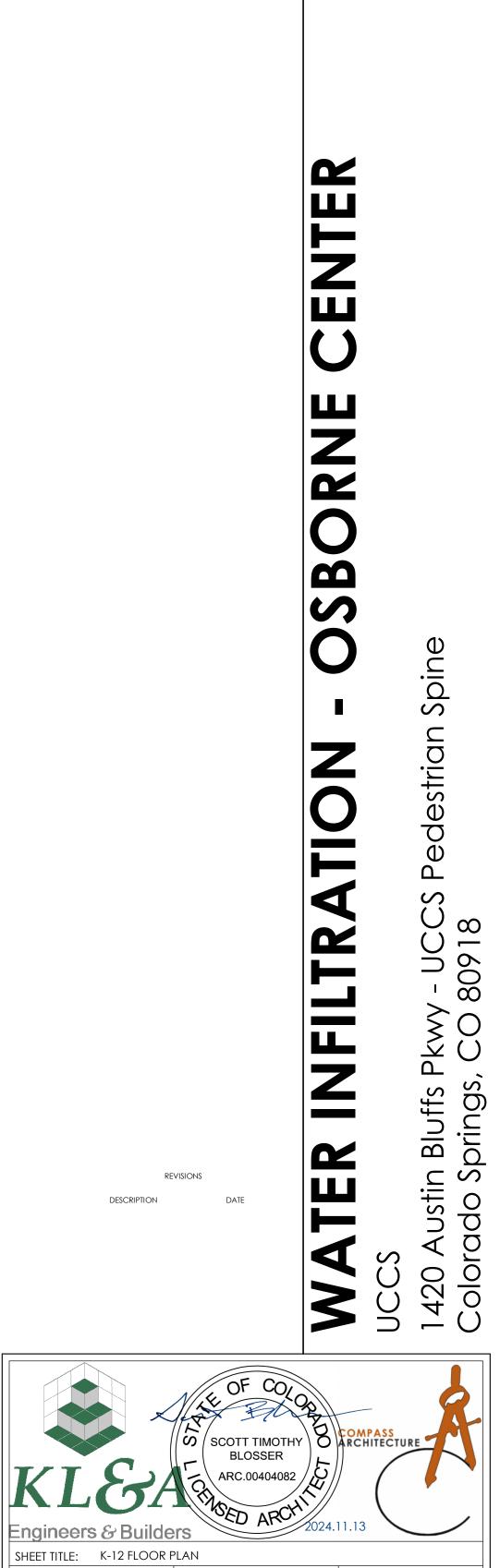
PROVIDE NEW RUBBER BASE THROUGHOUT ENTIRE ROOM.
 WALLS TO BE PAINTED ONLY WHERE DAMAGE REPAIR IS NEEDED. PAINT TO MATCH EXISTING ADJACENT WALL COLORS.

DATE: 2024.11.13 SCALE: As indicated

PRJCT 202416

A202





1. REMOVE METAL PANEL HEAD FLASHING AND PANEL IMMEDIATELY ABOVE WINDOW. SAVE FOR REUSE. -3. AT CORNER FRAMING, PROVIDE 6" SELF ADHERED FLASHING MEMBRANE TO COVER EXISTING GAP IN WEATHER BARRIER -----4. INSPECT SEALANT CONDITION AT PRIMARY SEAL AROUND STOREFRONT SYSTEM. RE-SET SEAL AS REQUIRED -

5 WINDOW HEAD REPAIR - AXON

BRIDGE FLOOR BEAM REPAINT NOTES 1. WIRE BRUSH ALL METAL SURFACES AND REMOVE ALL DEBRIS. 2. SPRAY ALL RUST WITH RUST DISSOLVER AND REMOVE ALL RUST. DEGREASE AND SAND FLOOR BEAM.
 PRIME METAL SURFACES AND REPAINT.
 APPLY HIGH PERFORMANCE TOPCOAT TO

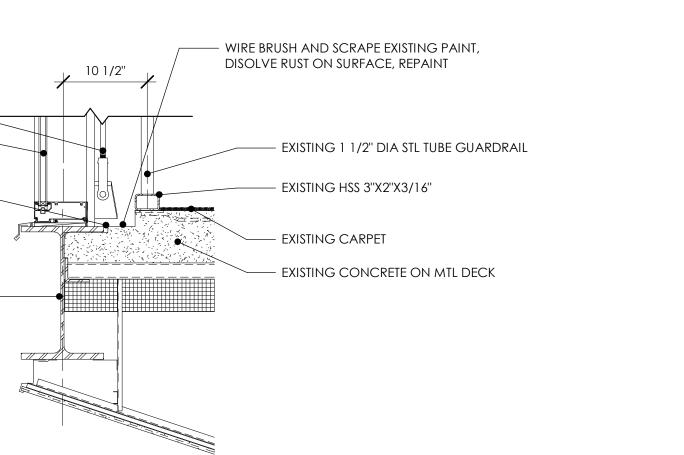
REPAINTED SURFACES.

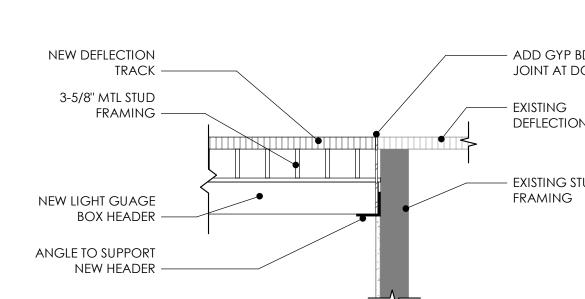
EXISTING PTD. DIAG. ROD BRACE -EXISTING ALUM GLAZING SYSTEM — SCRAPE AND REMOVE EXISTING SEALANT, PROVIDE NEW SEALANT BEAD TO MATCH PAINT —

> **EXISTING HIGH** PERFORMANCE COATED STL веам —

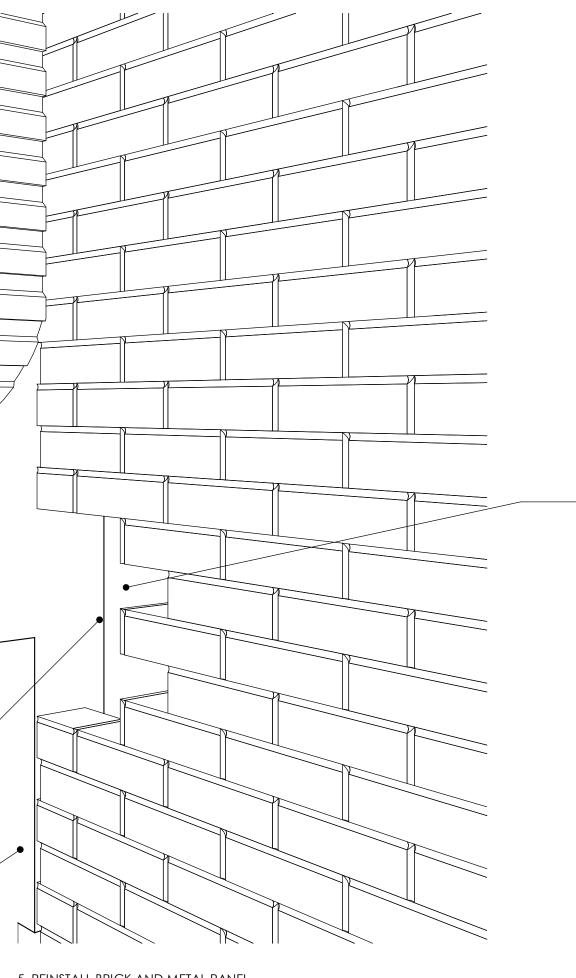
 $3 \frac{\text{SECTION AT FLOOR BEAM}}{1'' = 1'-0''}$



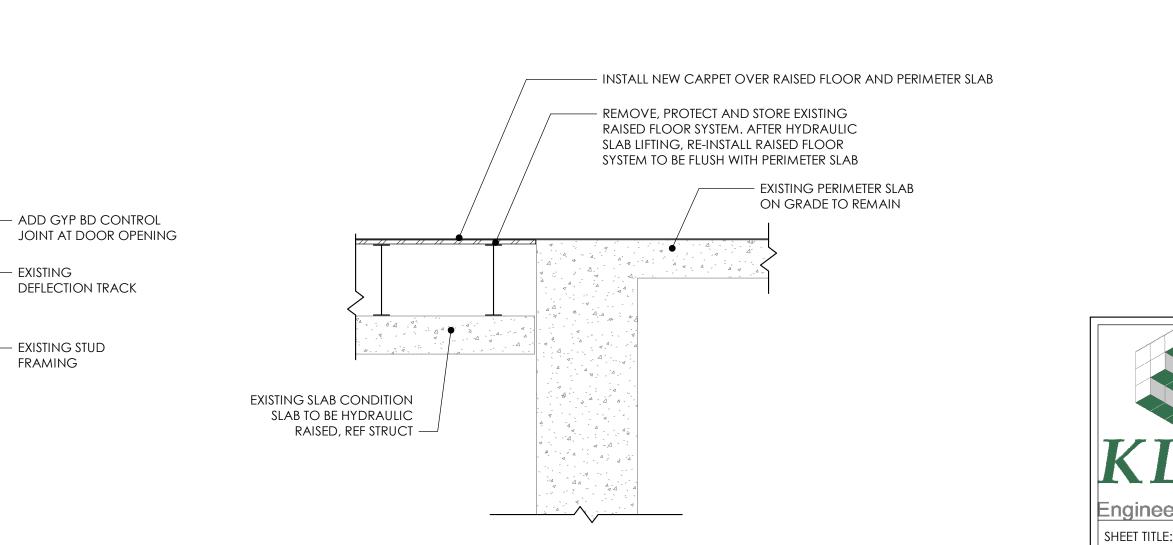




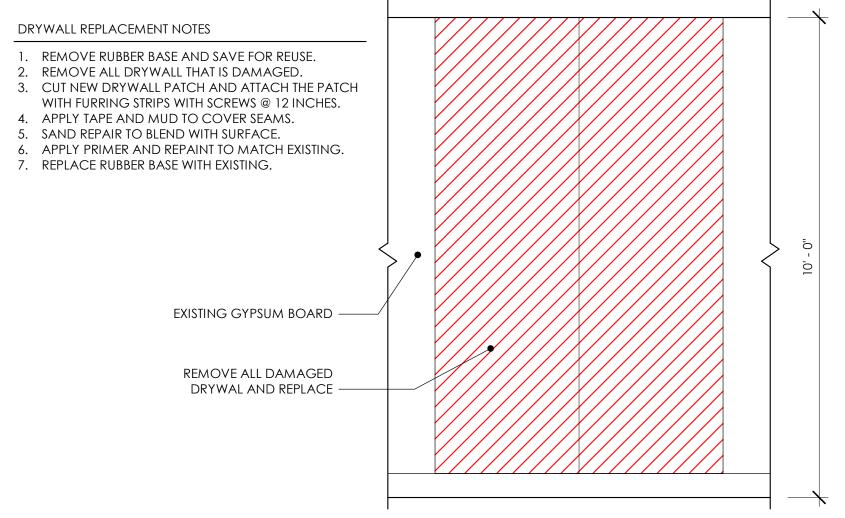




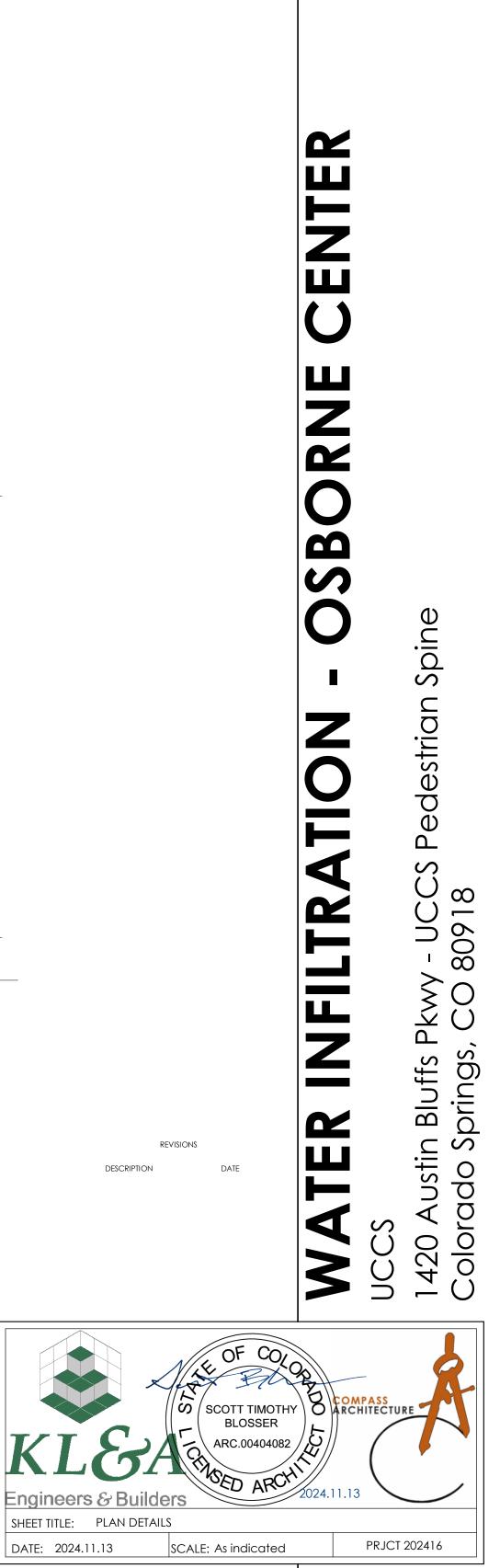
– 2. REMOVE EXISTING BRICKS AS REQUIRED to gain access to framing corner CONDITION. SAVE BRICKS FOR REUSE



(4) ELEVATION AT DAMAGED DRYWALL1/2" = 1'-0"







A250

PROJECT DESCRIPTION

- 1. Project consists of exterior and interior slab on grade remediation. Slabs have settled and heaved and do not comply with building code threshold tolerances.
- 2. Specialty systems include a temporary retaining/shoring system and a permanent de-watering system, both designed by specialty engineers/contractors.
- 3. This description is for general orientation only. The General Contractor is responsible for all scope items described in the drawings and project specifications as well as for all material and labor that can reasonably be inferred there from.

GENERAL APPLICATION

- 1. These drawings must be used in conjunction with the architectural drawings on the project to clearly define all requirements for construction. 2. No Contractor should attempt to bid nor construct any portion of this
- project without consulting the project architectural, mechanical, and electrical documents. 3. All things which, in the opinion of the Contractor, appear to be
- deficiencies, omissions, contradictions, or ambiguities in the drawings shall be brought to the attention of the Structural Engineer. Corrections or written interpretations shall be issued before affected work may proceed.
- 4. The Contractor shall inform the Structural Engineer, clearly and explicitly in writing of any deviation or substitution from requirements of the contract documents. Contractor shall not be relieved of any requirement of the contract documents by virtue of the Structural Engineer's review of shop drawings, project data, etc., unless the Contractor has clearly and explicitly informed the Structural Engineer in writing of any deviations or substitutions at time of submission.

EXISTING CONSTRUCTION

1. Information regarding existing structural systems is based on Project Record Drawings prepared by MARTIN/MARTIN Consulting Engineers dated 12/15/2009 and on site observations on 3/26/2024 by KL&A personnel.

- 2. Existing Conditions:
- A. The current design is based on limited information and limited visual observation. All conditions are to be verified in the field prior to construction of associated structural elements or modification to existing structural elements. The contractor shall immediately notify structural engineer if any existing conditions deviate from those indicated in the construction documents
- B. During construction, the Contractor may encounter existing conditions which are not known or different than depicted in the Construction Documents. Contractor shall notify the architect and engineer of all such conditions. Examples of differences include structure member sizes, dimensions, damaged or deterioration to structural elements, conditions of instability or lack of support, etc. C. The Contractor shall make schedule and budget allowances for the
- resolutions of such discoveries. 3. Demolition and Shoring:
- A. The General Contractor is responsible for shoring of existing structure where required during demolition and new construction. B. The current interior walls and finishes may be significant to the stability of the structure and may be providing inadvertent load paths that are not observable and may impact how demolition impacts the structure.
- C. The General Contractor should be prepared to brace and shore framing during demolition.
- D. Demolition and reshoring are best accomplished prior to significant snowfall, if possible. If demolition takes place during the significant snowfall season, the Contractor's shoring design should account for this.
- 4. No openings, nor any changes or additions, shall be made in any existing structural elements without written approval of the Structural Engineer. Where the function of an existing element as structural or non-structural is unclear, the determination of its function will be made solely by the Structural Engineer.

SPECIFICATIONS

1. These General Notes are intended to function as the structural portion of project specifications.

STRUCTURAL DESIG	N CRITERIA
Building Code: 2021 International Existing Building	g Code (No
Local Jurisdiction: Colorado Office of the State Arcl	hitect (OSA)
Risk Category: III	
IEBC Alteration Level: Prescriptive Compliance met	hod for Existing Build
Change of Occupancy: No	
Historic Designation: No	
Wind Loading	
Basic Wind Speed	Vult= 1
Exposure Category	
GCpi	+/-(
Ground Elevation Factor, Ke	0.
Elevation used for Ke (feet above sea level)	6,40
Seismic Loading	
Seismic Importance Factor, le	1.
Mapped Spectral Response Acceleration	
Ss	0.2
S ₁	0.0
Site Class	D (De
Spectral Response Coefficients	
Sds	0.2
Sd1	0.0
Seismic Design Category	I
Snow Loading	(Note
Ground Snow Load, Pg	43
Minimum Flat Roof Snow Load, Pf	33
Importance Factor, Is	1.
Surface Roughness Category	1
Exposure Factor, Ce	1
Thermal Factor, Ct	1
Slope Factor, Cs	1
Live Loads and Superimposed Dead Loads	(Not
Foundations	
Geotechnical Engineer Information:	No geotech report presumptive load from table 1806.2
Allowable Bearing Capacity	1,50
Minimum Frost Depth	30
NOTES:	•

- The governing building code defines the applicable edition of referen standards. Where governing building code does not define reference
- Ground snow load is according to the Pikes Peak Regional Building Department. All snow loads on the structure for both flat and sloped roofs shall be calculated in accordance with the 2021 IBC and based on the ground snow load stated above. Roof snow loads shall consider the following load conditions: partial loading, unbalanced roof snow loads, snow drifting, and sliding snow.
- Minimum uniform and concentrated live loads as well as partition loads and applicable live load reductions are determined according to Section 1607 of the IBC.

RIA		CONC	RETE MI	X DESI	GN I	REQ	UIREMEN	NTS	
(Note 1)		Element	f'c (psi)	Cement Type (Note 5)	Max W/C		Air Content (Note 1,2)	Slump (Note 3)	Exposu Class
sting Buildings	Int	terior Slab-on-Grade	3,500, NW	IL or I/II	0.5-	3/4"	-	4	FO C SO W
	Ex	terior Slab-on-Grade	5,000, NW	IL or I/II	0.4	3/4"	6	4	F2 C S0 W
Vult= 135 MPH		Other ⁵	5000, NW	IL or I/II	0.4	3/4"	6	4	F3 C S0 W
В	ТА	BLE FOOTNOTES:		1					
+/-0.18	1.	For any concrete ex	posed to fre	ezing tem	perati	ures ar	nd moisture.	the air co	ntent sh
0.79		be the greater of 5%	•	-	•				
6,400 ft	2.	Tolerance on air cor	ntent as deliv	vered sha	ll be +,	/- 1.5%	<i>.</i>		
	3.	Slump tolerances as			4.11				
1.25		Specified Slump not Specified Slump mo Where Slump is spe	re than 4"=	+/- 1 1/2"		nce			
0.205				0					
0.058	4.	Unless otherwise ap	proved by s	tructural	engine	er.			
D (Default)	5.	5. Type I/II cemeqent shall conform to ASTM C150 Tyle II cement shall conform to AST.							
	GE	NERAL CONCRETE MI	X NOTES:						
0.218	1.	Strength (f'c) is the compressive strengt	•	-		days u	nless noted o	otherwise	or
0.093	2.	Concrete is normal (NW) shall have a di	-					-	
B								U U	0
(Notes 2,3)	3.	Required minimum		-		-	= 6.7*√(f'c) re	egardless	of
43 psf	4.	Mix designs shall be							
33 psf	5.	Exposure Class indic for each exposure ir		•		•	•		
1.10		Freeze Thaw Exposu			-	ACI J		.1.1/ ACI 3	501.
В		Water-Soluble Sulfa	te in Soil Exp	oosure no	ted th	us: S0,	S1,S2,S3		
1.0		Permeability Requir Corrosion Protection			-				
1.0									
1.0	6.	Corrosion Protection Maximum water-so			•			/ woight	ofcomo
(Notes 4)		Reinforced Concrete		CO = 2			C1 = 0.3	-	: 0.15
ech report. Reference tive load bearing values le 1806.2 of the 2021 IBC.	7.	Where concrete is e ash and/or other ce for requirements.		3 freeze t	haw e>	kposur	e, restriction	s on maxi	mum fly
1,500 psf									
30 in									
		ł	REQUIRE	D CON	ICRE	TE C	COVER		
of referenced codes and referenced codes and			Asse	embly				Co	ver (in)
		Concrete cast	against & pe	ermanentl	у ехро	sed to	earth		3
	- I								

Concrete Exposed to

Earth or Weather

#5 and smaller (Non-post-tensioned)

Material	Standard
Portland Cement	ASTM C150, Type I or Type II or ASTM C595 Type IL, Type IL(MS), or Type IL(HS)
Fly Ash	ASTM C618, Class C or F
Aggregate	ASTM C33
Water	Potable
Water Reducing Admixture	ASTM C494, Type A or Type D
High Range Water Reducing Admixture	ASTM C494, Type F or Type G
Accelerator Admixture	ASTM C494, Type C or Type E
Air Entraining Admixture	ASTM C260
Lightweight Aggregates	ASTM C330
Curing Compound	ASTM C309, Type I, Class A
Reinforcing Bars	ASTM A615-grade 60 (Specified Yield Strength = 60ksi)
Welded Reinforcing Bars	ASTM A706-grade 60 (Specified Yield Strength = 60ksi)
Epoxy Coated Reinforcing Bars	ASTM A775 or ASTM A954
Welded Wire Fabric	ASTM A185
Vapor Retarder below SOG	ASTM E1745-Class A

	PLAN KEYS AND SYMBOLS
1 5101	ELEVATION VIEW 1 = DRAFTING NUMBER S101 = SHEET NUMBER
	WALL / BUILDING SECTION 1 = DRAFTING NUMBER S101 = SHEET NUMBER
	SECTION CUT 1 = DRAFTING NUMBER S101 = SHEET NUMBER
(<u>1</u> (<u>5101</u>)	DETAIL CALL OUT 1 = DRAFTING NUMBER S101 = SHEET NUMBER
<i>,</i> 00	ADDENDUM NUMBER
	TERMINATION OF MATCHLINE
	STEPS AND SLOPES IN DECKS & SLABS YY" = STEP HEIGHT
	SOFFIT STEP IN DECKS & SLABS
REFERENCE XXX' – YY"	ELEVATION CALLOUT REFERENCE = T/OBJECT OR B/OBJECT XXX'-YY" = OBJECT ELEVATION
GB1	GRADE BEAM TYPE GB1 = GRADE BEAM TYPE, RE: SCHEDULE
	WALLS AND COLUMNS
	CIP CONCRETE WALL ABOVE
	WALL BELOW (ALL MATERIALS)
	WALL ABOVE W/ WINDOW *

1 1/2

	WALL BELOW (ALL MATERIALS)
	WALL ABOVE W/ WINDOW *
	WALL ABOVE W/ DOOR *
\bigcirc	CIP CONCRETE COLUMN ABOVE
ΙΟΟ	STEEL COLUMN ABOVE
$1 \square \bigcirc \boxtimes \blacksquare \bigotimes$	COLUMNS BELOW (ALL MATERIALS)
*CIP CONCRETE SHOW	N; GRAPHICS APPLY TO OTHER WALL MATERIALS
-	

CIP CONCRETE	SOIL

	ABBREVIATIONS
ADDNL	additional
ALT	alternate
ARCH	architectural
<u> </u>	
B, B/	bottom of
BLDG BOT	building bottom
BUI BTWN	between
	Detween
CIP	cast-in-place concrete
CJ	construction / control join
CLR	clear
COL	column
CONC	concrete
CONN	connection
CONST	construction
CONT	continuous
D	depth
D DIA, φ	diameter
DIA, φ DIM	dimension
DTL	detail
DWGS	drawings
DWL	dowel
(E)	existing construction
EA	each
EF	each face
EJ	expansion joint
ELEV	elevation
EW	each way
EXP	expansion
EXT	exterior
FDN	foundation
FLR	floor
GB	grade beam
GC	general contractor
GEN	general
	hat die gebouete l
HDG HORIZ	hot dip galvanized horizontal
HORIZ HP	high point
INT	interior
JT	joint
	-
L	length
LONG	longitudinal
LONG LP	longitudinal low point
LONG LP	longitudinal
LONG LP LW, LWT	longitudinal low point lightweight
LONG LP LW, LWT MAX	longitudinal low point lightweight maximum
LONG LP LW, LWT MAX MFR	longitudinal low point lightweight maximum manufacturer
LONG LP LW, LWT MAX MFR	longitudinal low point lightweight maximum
LONG LP LW, LWT MAX MFR MIN	longitudinal low point lightweight maximum manufacturer minimum
LONG LP LW, LWT MAX MFR MIN (N)	longitudinal low point lightweight maximum manufacturer minimum new construction
LONG LP LW, LWT MAX MFR MIN	longitudinal low point lightweight maximum manufacturer minimum
LONG LP LW, LWT MAX MFR MIN (N) (N) NW, NWT	longitudinal low point lightweight maximum manufacturer minimum new construction normal weight
LONG LP LW, LWT MAX MFR MIN (N) (N) NW, NWT	longitudinal low point lightweight maximum manufacturer minimum new construction
LONG LP LW, LWT MAX MFR MIN (N) (N) NW, NWT	longitudinal low point lightweight maximum manufacturer minimum new construction normal weight on center
- LONG LP LW, LWT MAX MFR MIN (N) NW, NWT OC PERP	longitudinal low point lightweight maximum manufacturer minimum new construction normal weight on center perpendicular
LONG LP LW, LWT MAX MFR MIN (N) (N) NW, NWT	longitudinal low point lightweight maximum manufacturer minimum new construction normal weight on center
LONG LP LW, LWT MAX MFR MIN (N) NW, NWT OC PERP PLF	longitudinal low point lightweight maximum manufacturer minimum new construction normal weight on center perpendicular pounds per lineal foot
LONG LP LW, LWT MAX MFR MIN (N) NW, NWT OC PERP PLF RE:	longitudinal low point lightweight maximum manufacturer minimum new construction normal weight on center perpendicular pounds per lineal foot reference
- LONG LP LW, LWT MAX MFR MIN (N) NW, NWT OC PERP PLF PLF RE: REINF	longitudinal low point lightweight maximum manufacturer minimum new construction normal weight on center perpendicular pounds per lineal foot reference reinforcement
- LONG LP LW, LWT MAX MFR MIN (N) NW, NWT OC PERP PLF PLF RE: REINF	longitudinal low point lightweight maximum manufacturer minimum new construction normal weight on center perpendicular pounds per lineal foot reference
- LONG LP LW, LWT MAX MFR MIN MIN (N) NW, NWT OC PERP PLF PLF RE: REINF REINF REQD	longitudinal low point lightweight maximum manufacturer minimum new construction normal weight on center perpendicular pounds per lineal foot reference reinforcement required
LONG LP LW, LWT MAX MFR MIN (N) NW, NWT OC PERP PLF PLF RE: REINF REQD SCHED	longitudinal low point lightweight maximum manufacturer minimum new construction normal weight on center perpendicular pounds per lineal foot reference reinforcement required schedule
LONG LP LW, LWT MAX MFR MIN (N) NW, NWT OC PERP PLF RE: REINF REQD SCHED SOG	longitudinal low point lightweight maximum manufacturer minimum new construction normal weight on center perpendicular pounds per lineal foot reference reinforcement required schedule slab on grade
LONG LP LW, LWT MAX MFR MIN (N) NW, NWT OC PERP PLF PLF RE: REINF REQD SCHED	longitudinal low point lightweight maximum manufacturer minimum new construction normal weight on center perpendicular pounds per lineal foot reference reinforcement required schedule
- LONG LP LW, LWT MAX MFR MIN (N) NW, NWT OC PERP PLF RE: REINF REINF REQD SCHED SOG SPA	longitudinal low point lightweight maximum manufacturer minimum new construction normal weight on center perpendicular pounds per lineal foot reference reinforcement required schedule slab on grade spacing
- LONG LP LW, LWT MAX MFR MIN (N) NW, NWT OC PERP PLF RE: REINF REQD SCHED SOG SPA T, T/	longitudinal low point lightweight maximum manufacturer minimum new construction normal weight on center perpendicular pounds per lineal foot reference reinforcement required schedule slab on grade spacing top of
- LONG LP LW, LWT MAX MFR MIN (N) NW, NWT OC OC PERP PLF RE: REINF REQD SCHED SOG SPA T, T/ THK	longitudinal low point lightweight maximum manufacturer minimum new construction normal weight on center perpendicular pounds per lineal foot reference reinforcement required schedule slab on grade spacing top of thickness
- LONG LP LW, LWT MAX MFR MIN (N) NW, NWT OC PERP PLF RE: REINF REQD SCHED SOG SPA T, T/	longitudinal low point lightweight maximum manufacturer minimum new construction normal weight on center perpendicular pounds per lineal foot reference reinforcement required schedule slab on grade spacing top of
- LONG LP LW, LWT MAX MFR MIN (N) NW, NWT OC PERP PLF RE: REINF REQD SCHED SOG SPA T, T/ THK TYP	longitudinal low point lightweight maximum manufacturer minimum new construction normal weight on center perpendicular pounds per lineal foot reference reinforcement required schedule slab on grade spacing top of thickness typical
- LONG LP LW, LWT MAX MFR MIN (N) NW, NWT OC PERP PLF RE: REINF REINF REQD SCHED SOG SPA T, T/ THK TYP VERT	Iongitudinal Iow point lightweight maximum manufacturer minimum new construction normal weight on center perpendicular pounds per lineal foot reference reinforcement required schedule slab on grade spacing top of thickness typical vertical
LONG LP LW, LWT MAX MFR MIN (N) NW, NWT OC PERP PLF RE: REINF REQD SCHED SOG SPA T, T/ THK TYP	longitudinal low point lightweight maximum manufacturer minimum new construction normal weight on center perpendicular pounds per lineal foot reference reinforcement required schedule slab on grade spacing top of thickness typical

STATEMENT OF SPECIAL INSPECTIONS IBC 2021 Definitions:

1. Special Inspection: Inspection of construction requiring the expertise of an approved special inspector in order to ensure compliance with this code and the approved construction documents.

2. Continuous Special Inspection: Special Inspection by the special inspector who is present continuously when and where the work to be inspected is being performed.

3. Periodic Special Inspection: Special inspection by the special inspector who is intermittently present where the work to be inspected has been or is being performed.

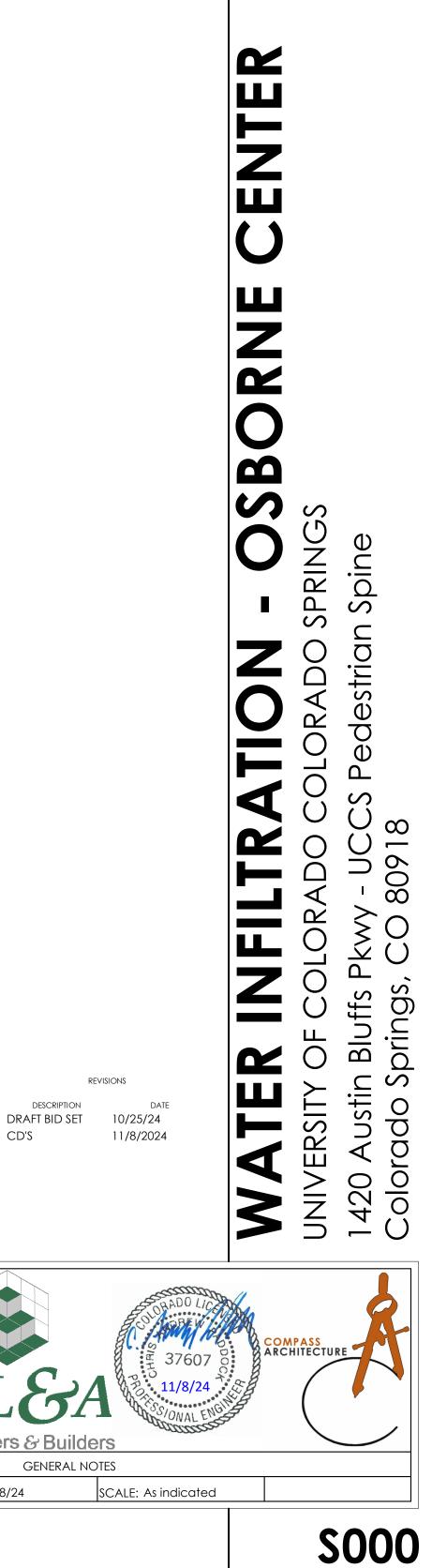
4. Special Inspector: A qualified person employed or retained by an approved agency and approved by the building official as having the competence necessary to inspect a particular type of construction requiring special inspection.

CONCRETE SPECIAL	INSPECTI	ONS	
Notes: 1. Minimum inspections conform to IBC 1705.3			
Special Inspection of Concrete Elements			
la su stisa Tasla su Tastia s	Frequency		Cuitania (Danaaria
Inspection Task or Testing	Continuous	Periodic	Criteria/Remarks
Inspect Reinforcement and verify placement		х	Inspect rebar size, grade, quantity, spacing, hook length, splice length, cover, support, and surface condition
Inspect anchors and embedded structural plates cast in concrete		х	
Inspect post installed anchors: Adhesive anchors installed in horizontally or upwardly inclined orientations to resist sustained tension loads	x		ACI 318 17.8.2.4 Installation shall be performed by a certified person per ACI 17.8.2.2
Inspect post installed anchors: All others not included above		Х	
Verify use of required design mix		Х	ACI 301 1.7.3.4(d)
Prior to concrete placement, fabricate specimens for strength test, perform slump and air content tests, and determine the temperature of the concrete	x		ACI 301 1.7.3.3(d)
Inspect concrete placement for proper application techniques	Х		ACI 301 1.7.3.4(b)
Inspect in situ concrete strength prior to removal of shores and forms from beams and structural slabs		Х	Samples to be used for determination of strength for removal of forms are to be field cured in the same condition as the corresponding slab
Inspect formwork for shape, location and dimensions of the concrete member being formed		х	ACI 301 1.7.3.4(b)

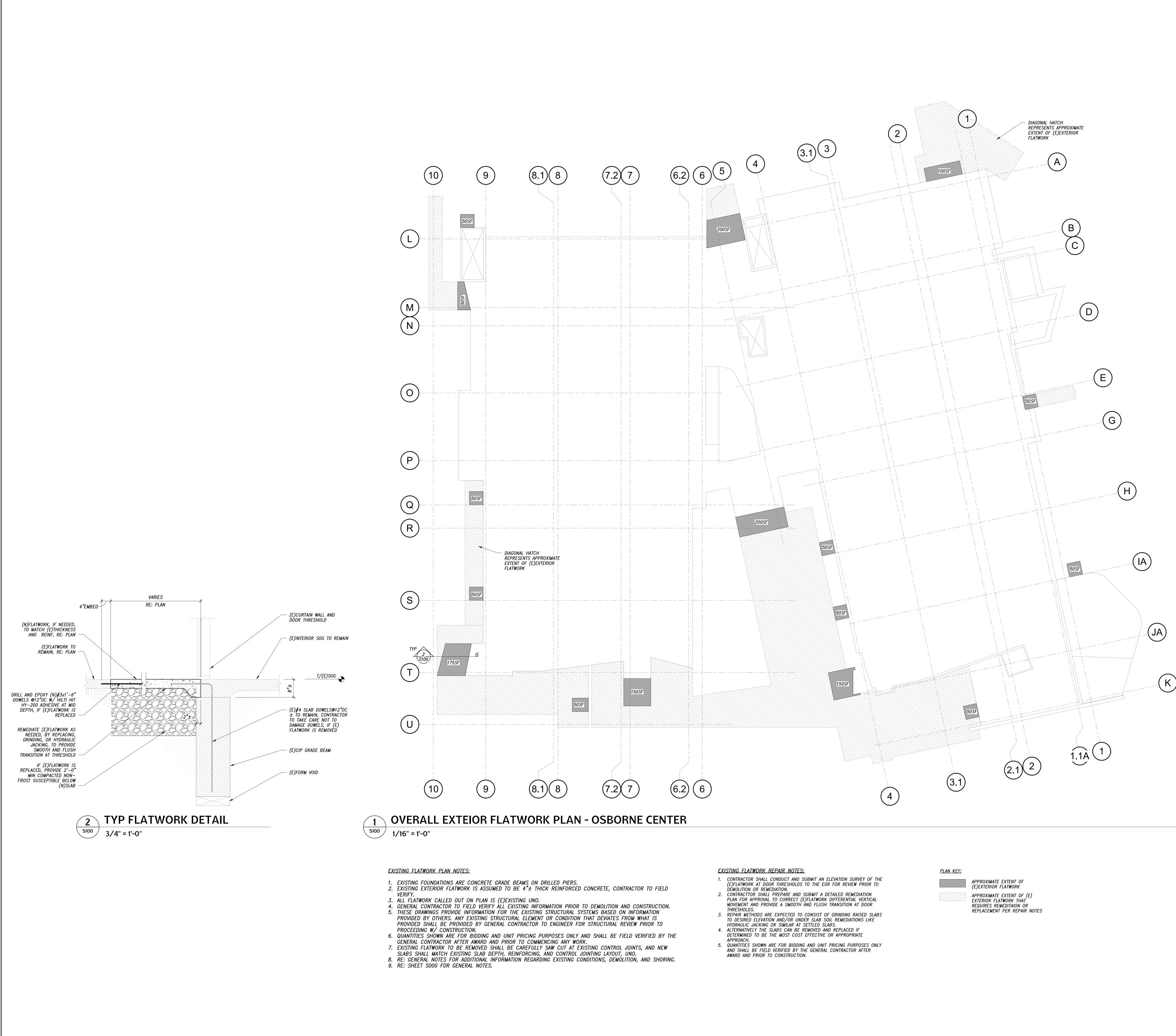
r				SHEET	LABEL	KEY
	STRUCTURAL DRAWING SHEET					
SNN	SHEET NUMBER 000 SERIES = GEN NOTES 100 SERIES = COMPOSITE PLANS 200 SERIES = AREA PLANS					
	NEW SHEET = \bigcirc REVISED DRAWING NO MODIFICATIONS = \bigcirc SHEET DELETE					
		ISS	SUE	DATE	AND	TITLE
SHEET NO.	SHEET NAME	DRAFT BID SET 10/25/2024	CD'S 11/8/2024			
5000	GENERAL NOTES	0				
S000 S100	OVERALL PLAN AND DETAILS				_	
S200	ENLARGED FOUNDATION PLAN AND DETAILS	$\overline{0}$				

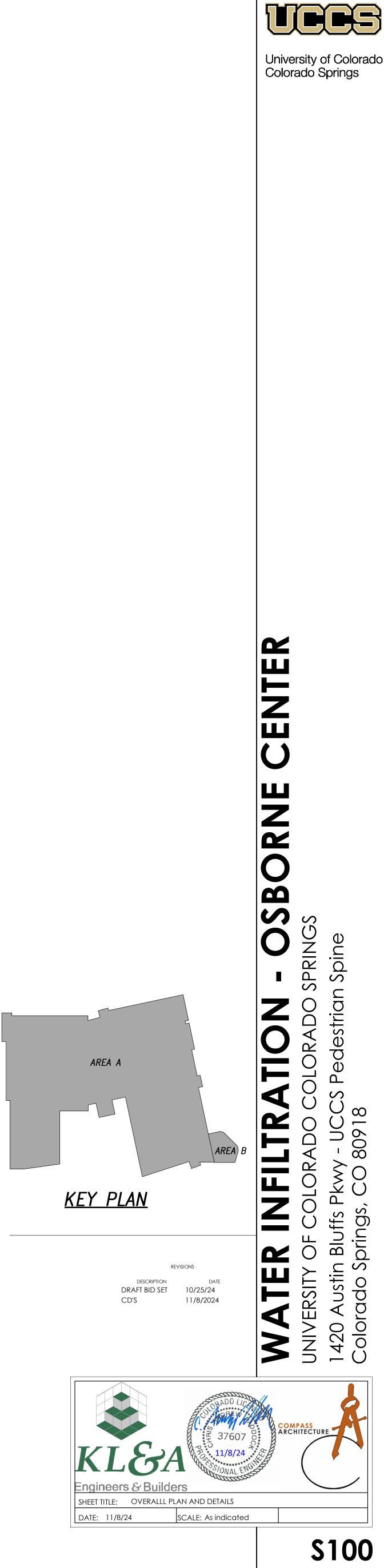
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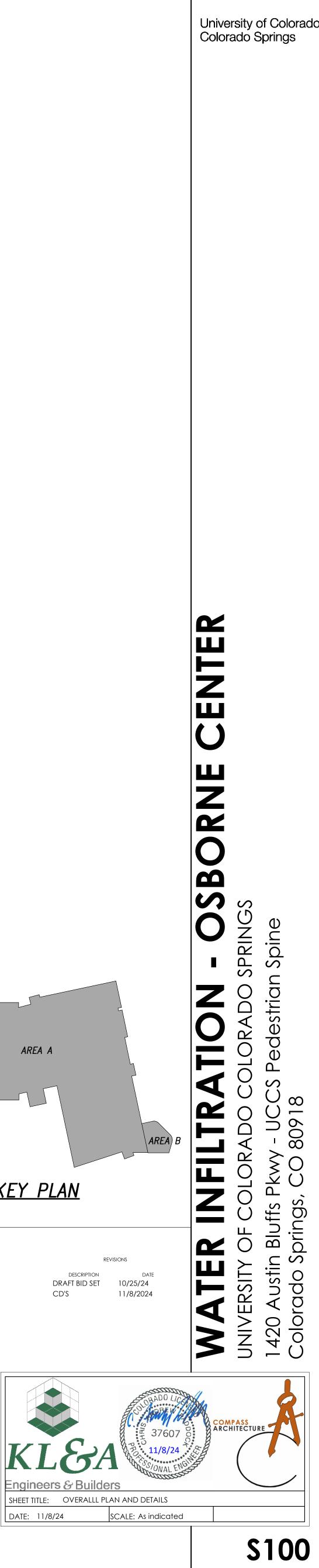


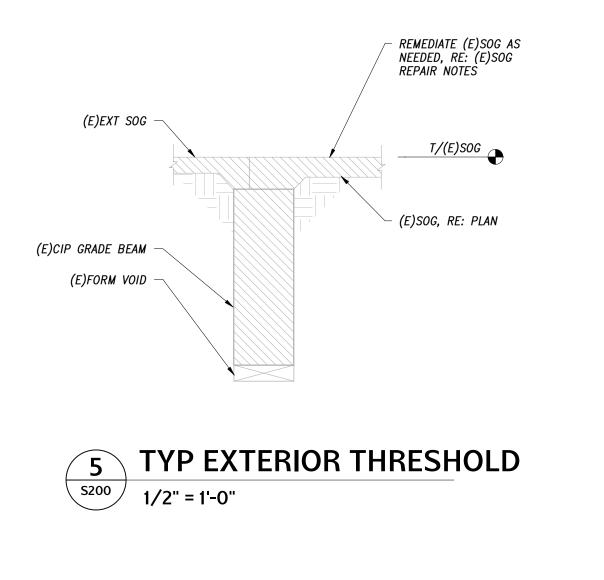


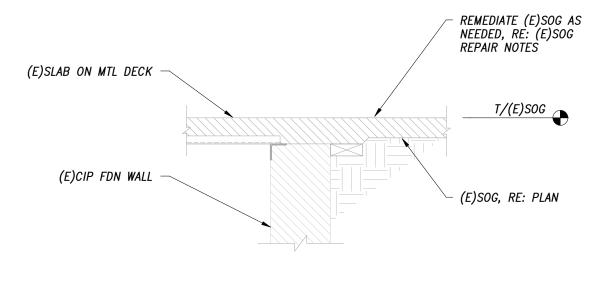




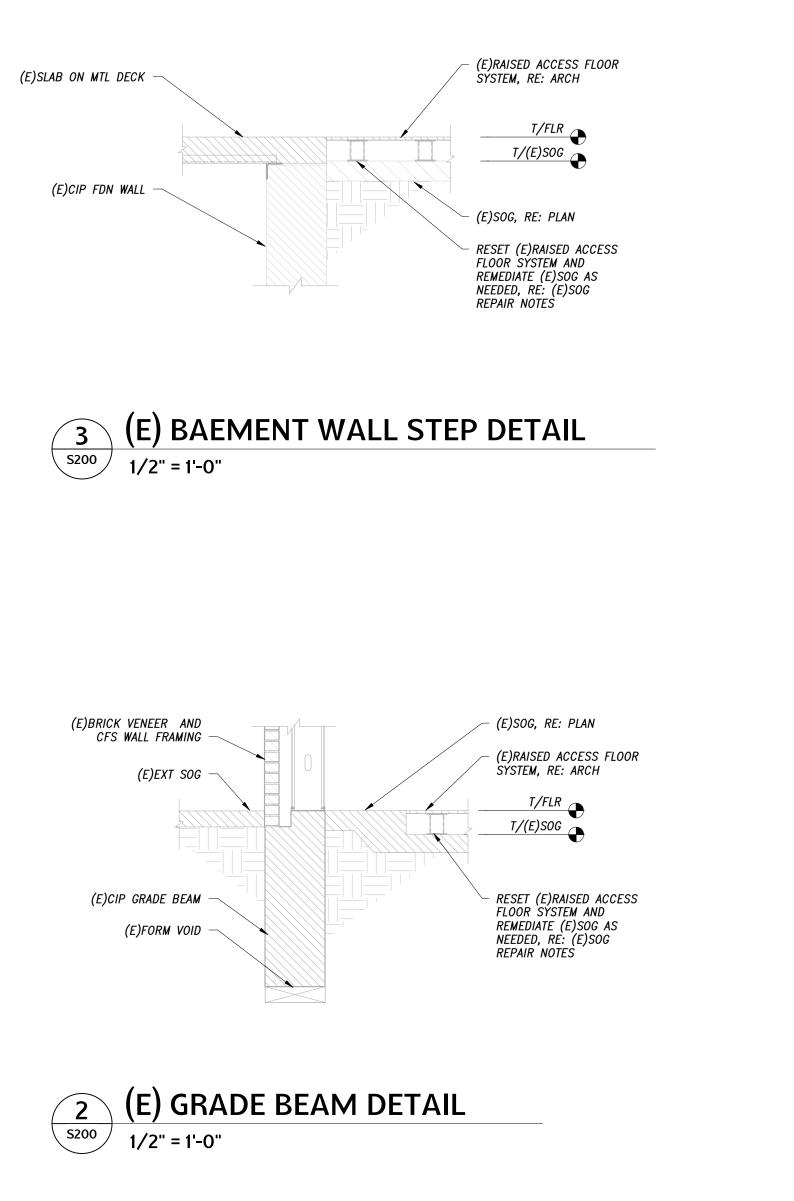


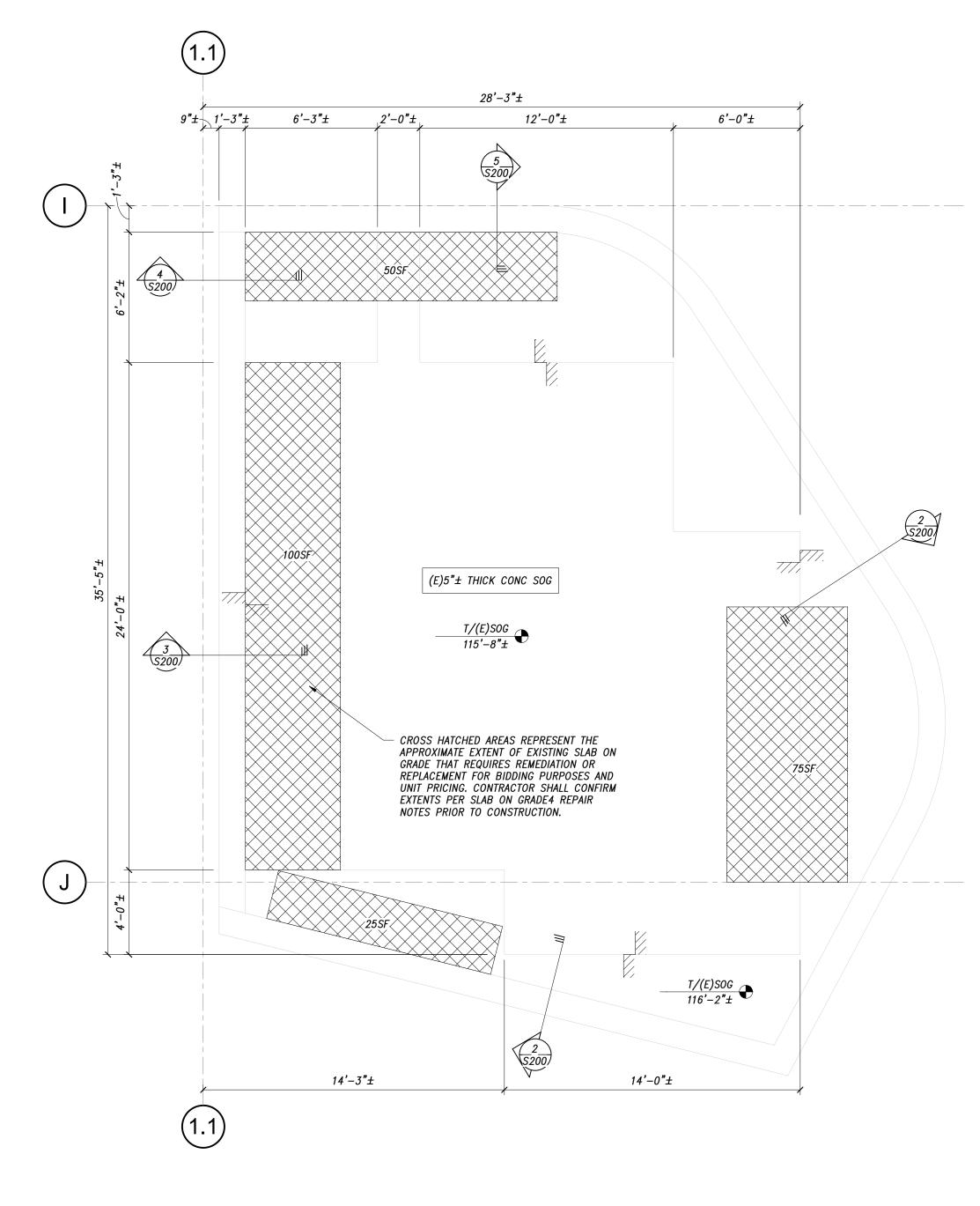










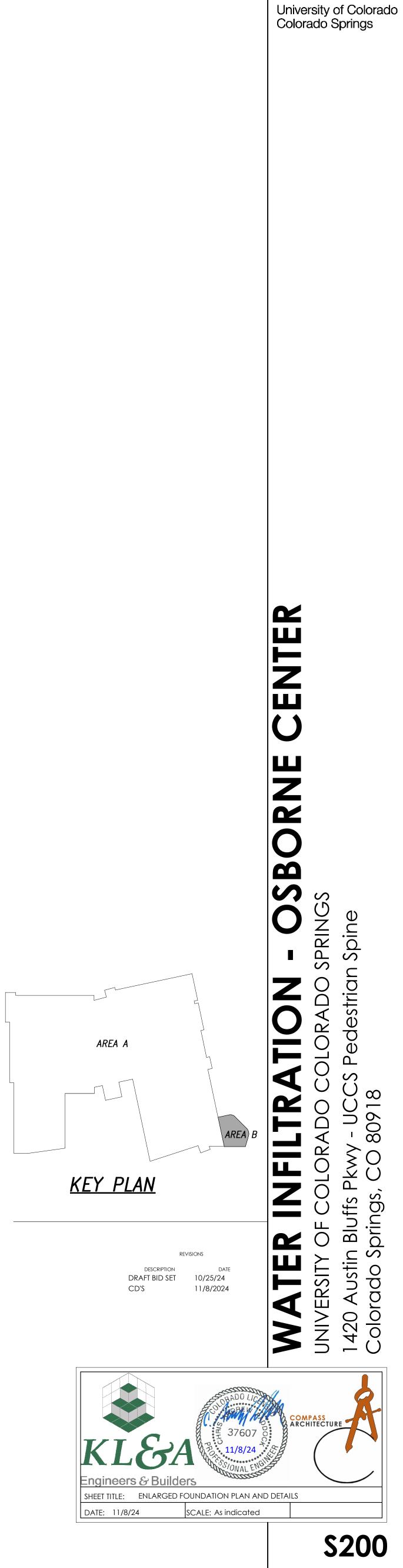


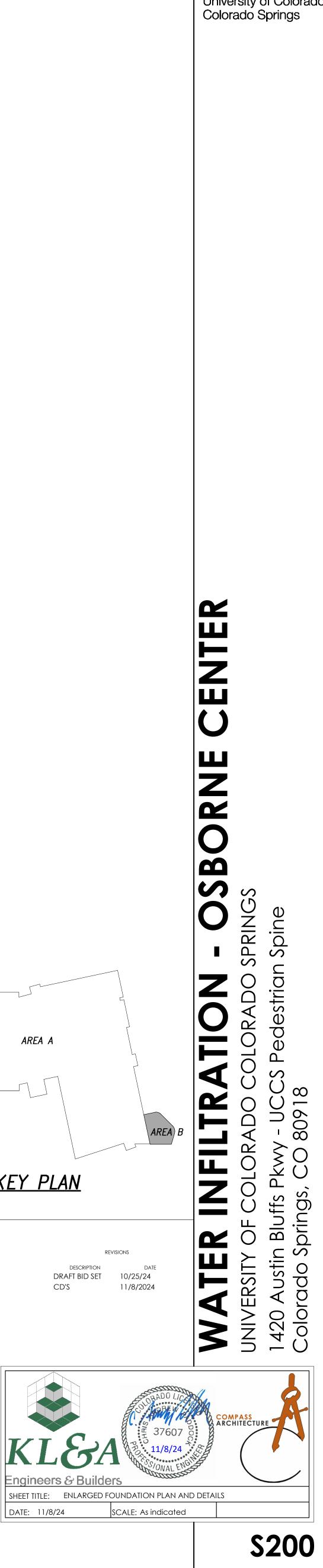


EXISTING SLAB ON GRADE PLAN NOTES:

- 1. EXISTING FOUNDATIONS ARE GRADE BEAMS ON DRILLED PIERS. 2. EXISTING INTERIOR FLATWORK IS ASSUMED TO BE 5" THICK SOG, CONTRACTOR TO FIELD VERIFY.
- GENERAL CONTRACTOR TO FIELD VERIFY ALL EXISTING INFORMATION PRIOR TO DEMOLITION AND CONSTRUCTION.
 THESE DRAWINGS PROVIDE INFORMATION FOR THE EXISTING STRUCTURAL
- SYSTEMS BASED ON INFORMATION PROVIDED BY OTHERS. ANY EXISTING STRUCTURAL ELEMENT OR CONDITION THAT DEVIATES FROM WHAT IS PROVIDED SHALL BE PROVIDED BY GENERAL CONTRACTOR TO ENGINEER FOR STRUCTURAL REVIEW PRIOR TO PROCEEDING W/ CONSTRUCTION. 5. RE: GENERAL NOTES FOR ADDITIONAL INFORMATION REGARDING EXISTING
- CONDITIONS, DEMOLITION, AND SHORING. 6. RE: ARCH FOR PENETRATIONS NOT SHOWN ON STRUCTURAL PLANS. 7. RE: SHEET SOOO FOR GENERAL NOTES

- EXISTING SLAB ON GRADE REPAIR NOTES: 1. AFTER RAISED ACCESS FLOOR AND FINISHES ARE REMOVED PER ARCH DWGS, CONTRACTOR SHALL CONDUCT AND SUBMIT AN ELEVATION SURVEY OF THE
- (E)SOG TO THE EOR FOR REVIEW. 2. CONTRACTTOR SHALL PREPARE AND SUBMIT A DETAILED REMEDIATION PLAN FOR APPROVAL TO CORRECT (E)SOG
- DIFFERENTIAL VERTICAL MOVEMENT AND PROVIDE A SMOOTH AND FLAT FLOOR. 3. REPAIR METHODS ARE EXPECTED TO CONSIST OF GRINDING RAISED SLABS TO DESIRED ELEVATION AND/OR UNDER SLAB SOIL REMEDIATIONS LIKE HYDRAULIC
- JACKING OR SIMILAR AT SETTLED SLABS. 4. ALTERNATIVELY THE SLABS CAN BE REMOVED AND REPLACED IF DETERMINED TO BE THE MOST COST EFFECTIVE OR APPROPRIATE APPROACH.
- 5. QUANTITIES SHOWN ARE PROVIDED FOR BIDDING PURPOUSES ONLY AND SHALL BE FIELD VERIFIED BY THE GENERAL CONTRACTOR PRIOR TO CONSTRUCTION.





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