UNIVERSITY OF MISSOURI - COLUMBIA GENERAL SITE - REPLACE UTILITIES NEAR MEMORIAL UNION PROJECT NUMBER: CP230201

AT: UNIVERSITY OF MISSOURI - COLUMBIA, MISSOURI FOR: THE CURATORS OF THE UNIVERSITY OF MISSOURI ISSUED FOR ADDENDUM 1: 02/06/2025

SPECIAL INSPECTIONS [IBC CHAPTER 17]: 1) All concrete waterproofing shall be fully placed and inspected by the owner prior to proceeding to the next step of installation. Owner shall receive 24 hour notice of inspections being required. These inspections for approval shall include: b) Flashing installation c) Membrane installation d) Protection and drainage installation

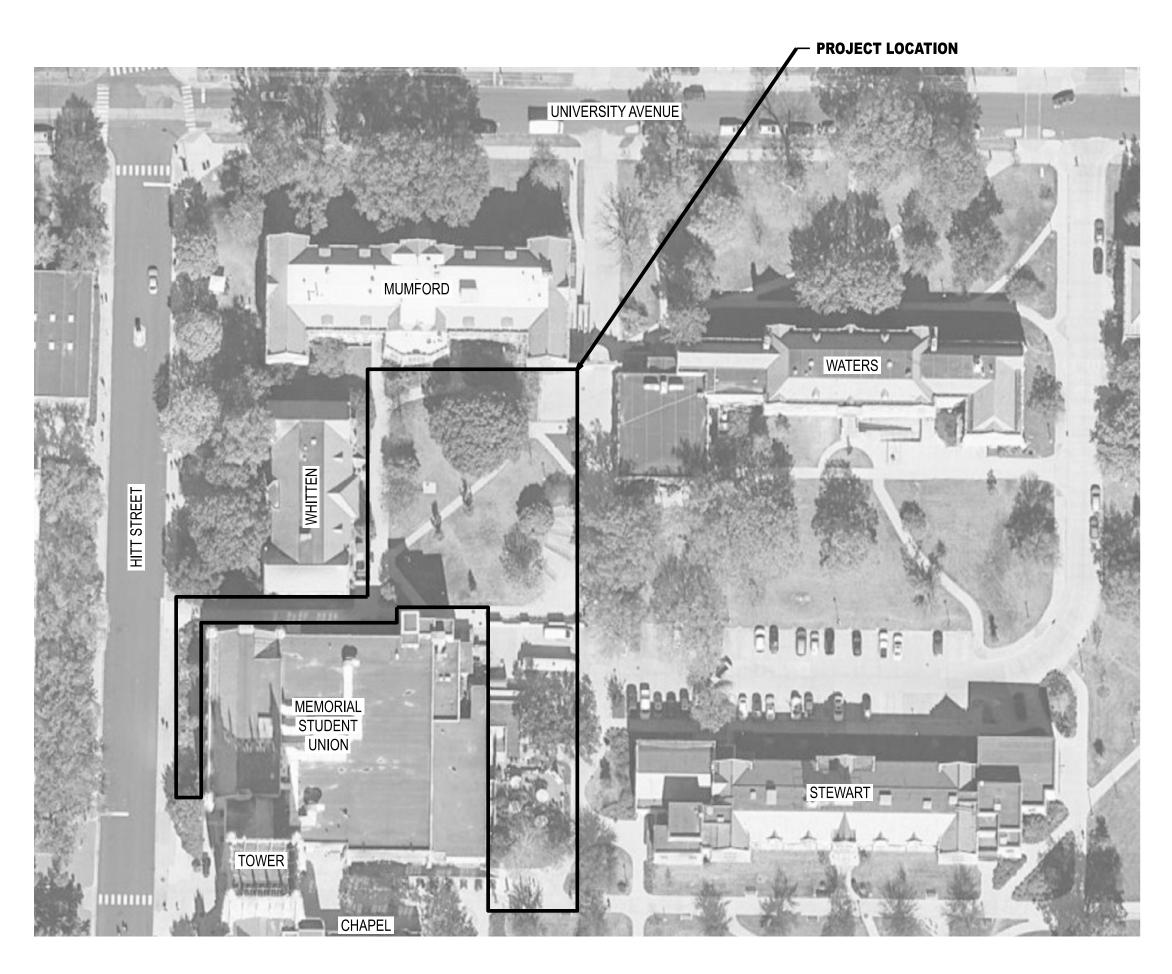
2) The owner will contract with an independent testing firm to complete ultrasonic shear wave weld inspections on owner selected field welds. If the results of these tests indicate poor quality welds, those "failed" welds shall be replaced at no additional cost to the project. If further ultrasonic inspection is required to assure quality weld workmanship, these tests shall be at the expense of the contractor, and any and all defective welds shall be replaced at no additional cost to the project.

3) Placing of concrete and reinforcing steel (continuous of concrete sampling / periodic of reinforcing).

4) In-situ soils, excavations, filling, and compaction

The contractor shall request special inspection of the items listed above prior to those items becoming inaccessible and unobservable due to progression of the

Contractor is responsible for the design of shoring, earth retention systems, temporary excavations support, existing utility protection systems, and associated items as needed to facilitate completion of this work. Design shall be completed by a licensed professional structural engineer registered in the State of Missouri. Designs shall be submitted to review by project





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1	CE 2	DEMOLITION PLAN			
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		MECHANICAL DRAWINGS			
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		ELECTRICAL DRAWINGS			
1	E101	ELECTRICAL SITE PLAN			
0	E200	ELECTRICAL DETAILS			

OWNER'S REPRESENTATIVE:



BRANDON REDINGTON 112 GENERAL SERVICES BUILDING COLUMBIA, MO 65211 573-405-0083 PROJECT CP230201

DESIGN CONSULTANTS:



MECHANICAL AND ELECTRICAL PRVN CONSULTANTS, INC.

1617 SECOND AVE. SUITE 110 ROCK ISLAND, IL 61201 563.263.5160 PROJECT 24084

STRUCTURAL AND CIVIL

CROCKETT ENGINEERING CONSULTANTS 1000 W NIFONG BLVD, BUILDING 1
COLUMBIA, MO 65203
573.447.0292 PROJECT xxxxx



ARCHITECT INTERNATIONAL ARCHITECTS ATELIER 912 BROADWAY BLVD, SUITE 300 KANSAS CITY, MO 64105

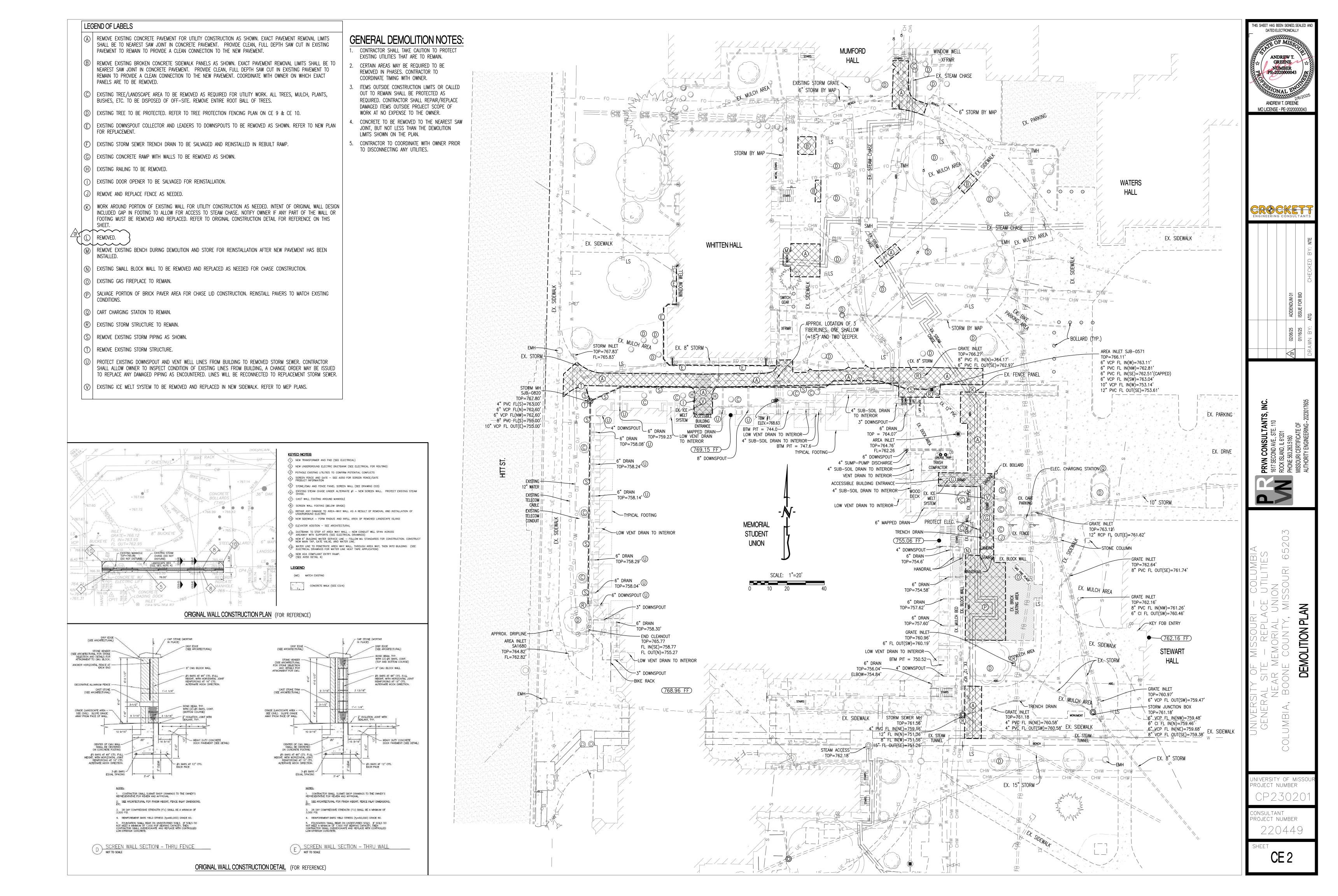
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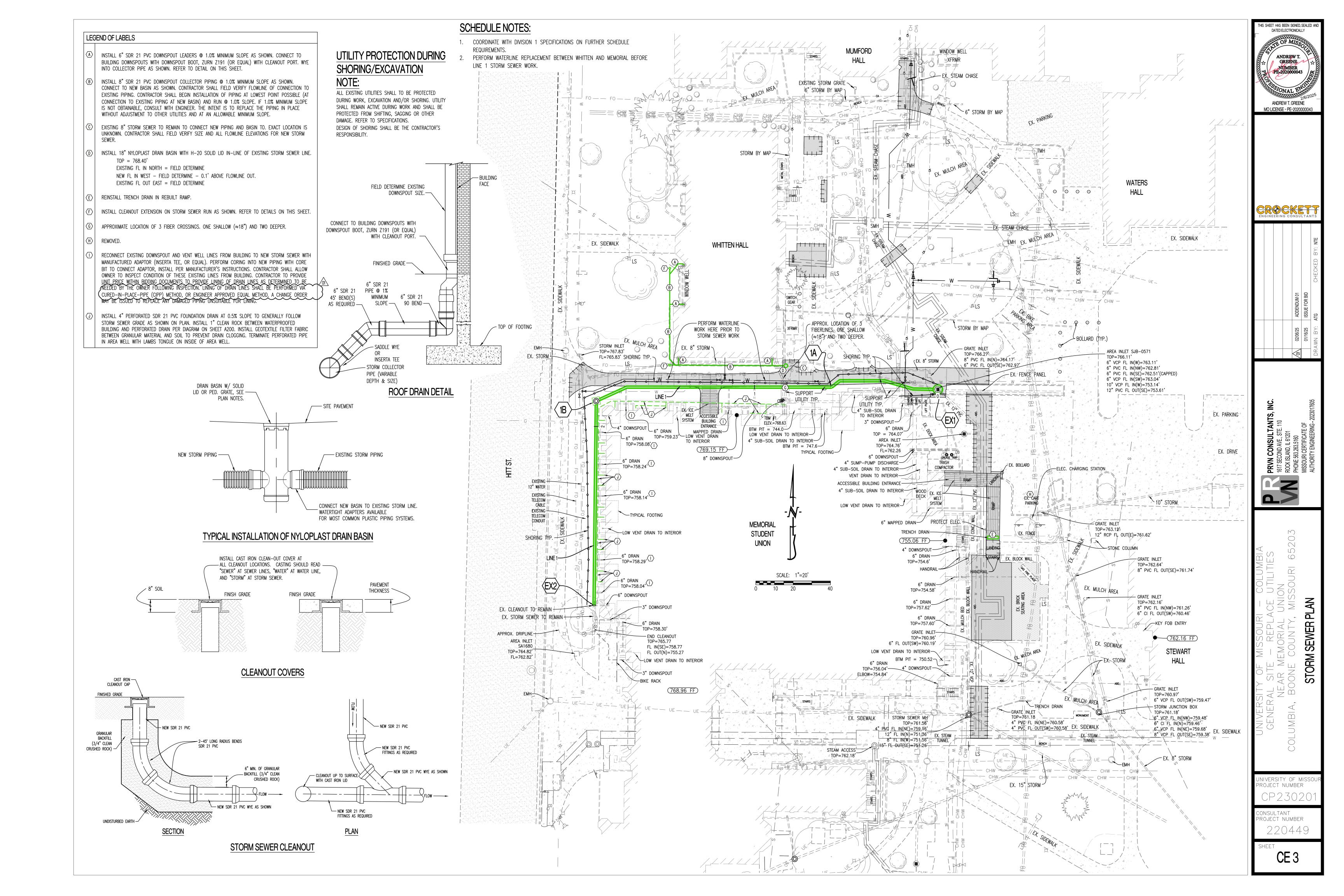
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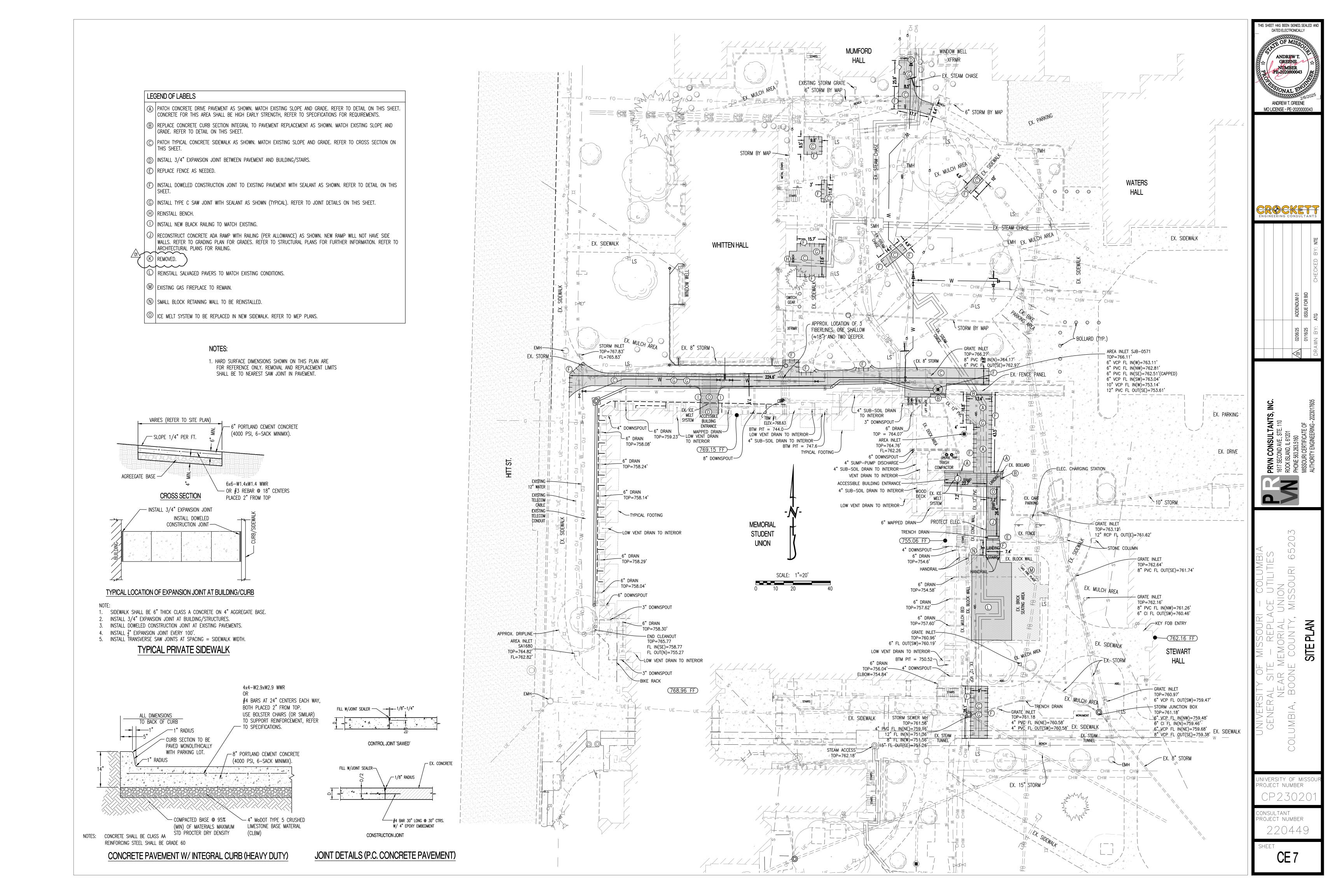
1617 SECOND AVE., STE 110 ROCK ISLAND, IL 61201 PHONE: 563-263-5160

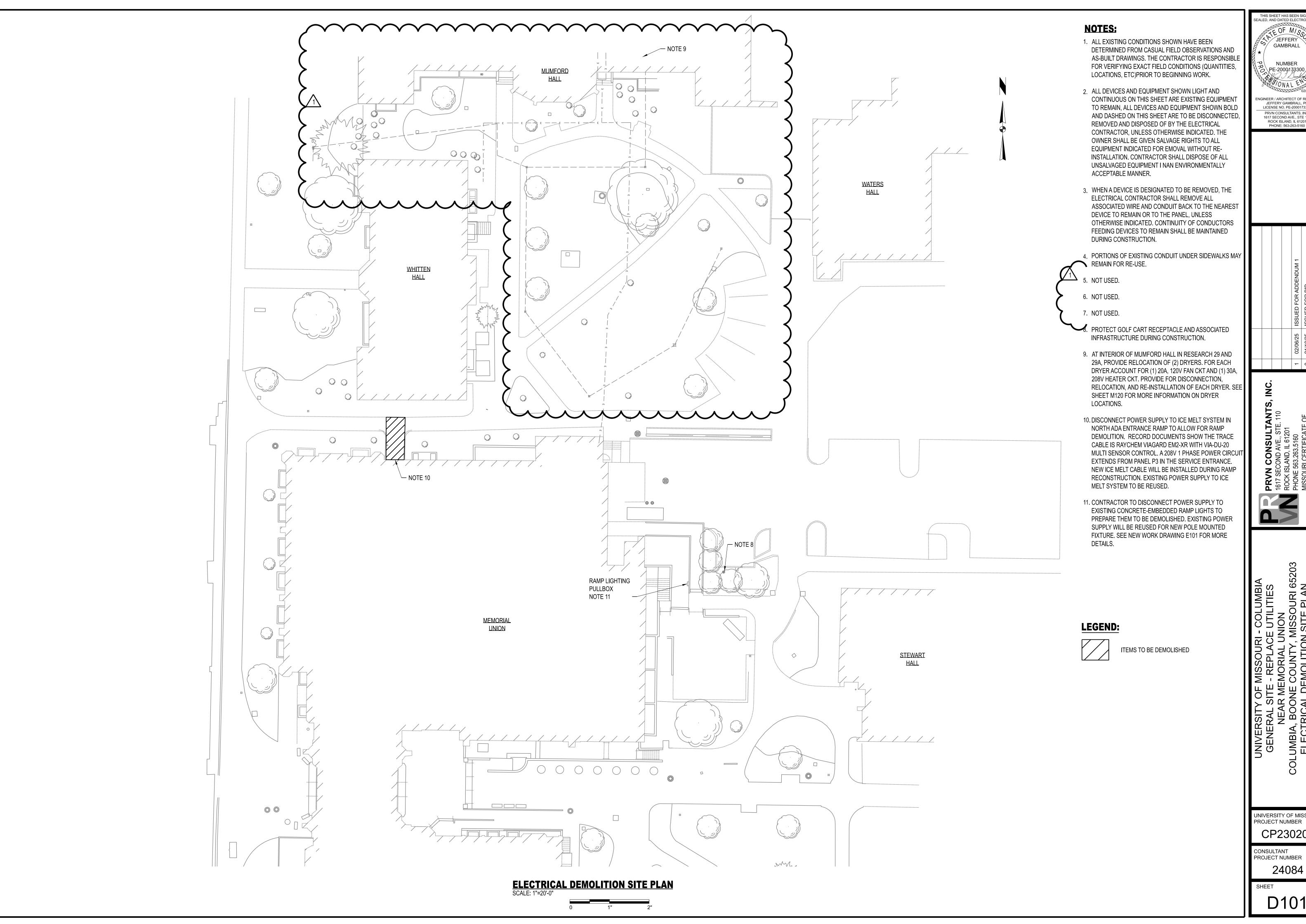
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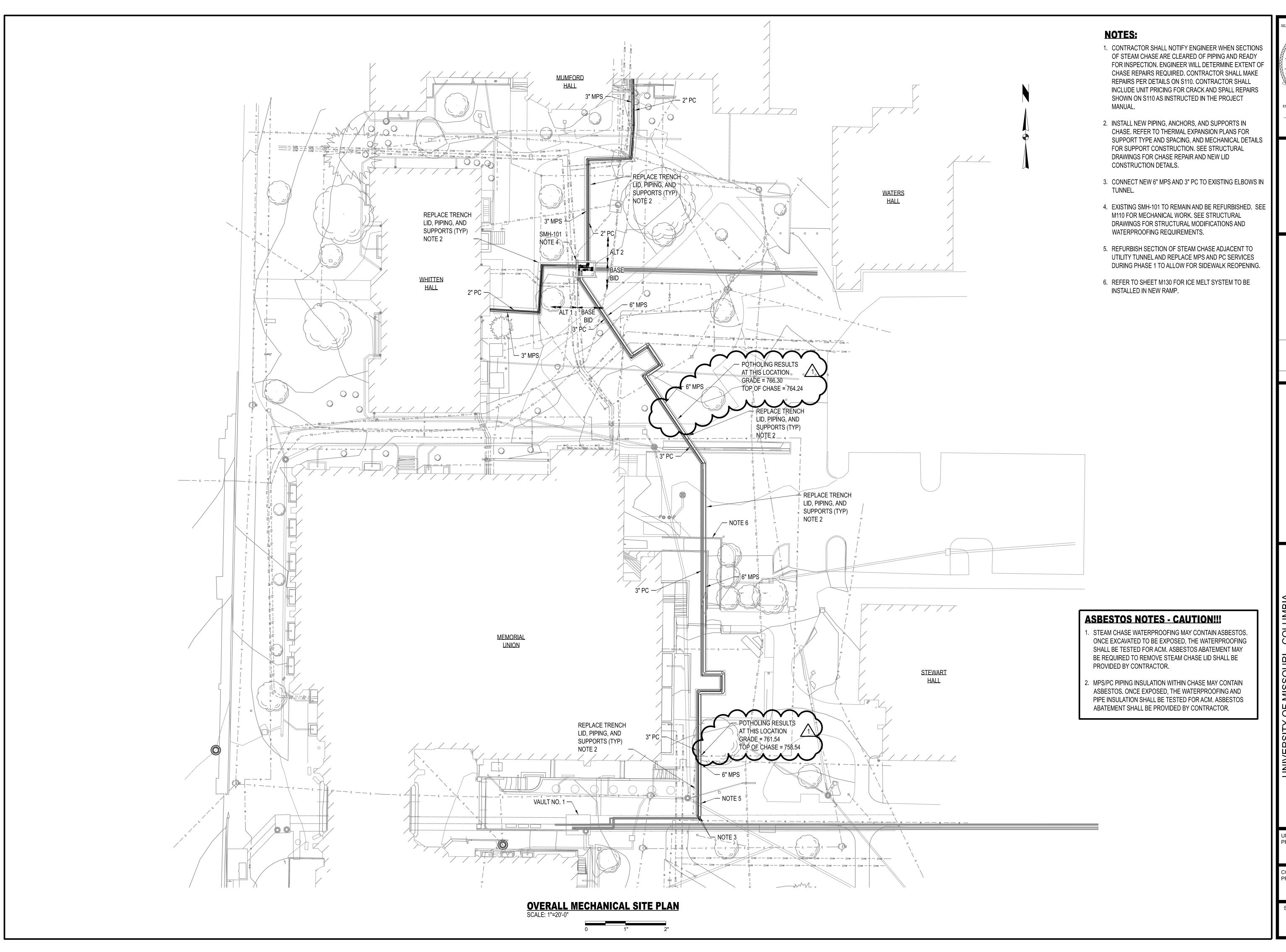


JEFFERY V GAMBRALL PE-2000173300/ SONAL E

IGINEER / ARCHITECT OF RECORD: JEFFERY GAMBRALL, PE LICENSE NO. PE-2000173300 1617 SECOND AVE., STE 110 ROCK ISLAND, IL 61201 PHONE: 563-263-5160

UNIVERSITY OF MISSOURI PROJECT NUMBER CP230201

CONSULTANT PROJECT NUMBER 24084



JAMES J. /NONNENMANN\? \PE-5053025612/\(\gamma\) MOSIONAL E.

IGINEER / ARCHITECT OF RECORD: JAMES NONNENMANN, PE LICENSE NO. PE-5053025612 PRVN CONSULTANTS, INC. 1617 SECOND AVE., STE 110 ROCK ISLAND, IL 61201 PHONE: 563-263-5160

UNIVERSITY OF MISSOURI PROJECT NUMBER

CP230201

CONSULTANT PROJECT NUMBER 24084

M100

GENERAL NOTES

ELEVATION DATUM

SEE ARCHITECTURAL DRAWINGS OR SITE PLAN FOR FINISH FLOOR ELEVATIONS

DESIGN SPECIFICATIONS

2021 INTERNATIONAL BUILDING CODE

EARTHWORK OPERATIONS SHALL BE PERFORMED UNDER THE DIRECTION OF A PROFESSIONAL TESTING AGENCY TO ASSURE COMPLIANCE WITH THE RECOMMENDATIONS OF THE SOILS REPORT.

CONCRETE

CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS OF THE CURRENT ACI 301, SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS, ACI 318 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE, ACI 305 SPECIFICATIONS FOR HOT WATER CONCRETE, AND ACI 306 SPECIFICATIONS FOR COLD WEATHER

CONCRETE, WITH THE FOLLOWING ADDITIONAL REQUIREMENTS: 1. CONCRETE SHALL DEVELOP THE FOLLOWING 28-DAY MINIMUM COMPRESSIVE STRENGTH:

FOUNDATIONS - 3,000 PSI CAST-IN-PLACE WALLS - 4,500 PSI FLOOR SLAB - 4,000 PSI

EXTERIOR SLABS, WALLS AND CURBS - 4,500 PSI 2. ALL FOOTINGS SHALL BEAR ON UNDISTURBED SOIL OR ENGINEERED FILL. 3. CHLORIDE- BASED ADMIXTURES ARE PROHIBITED IN ALL REINFORCED CONCRETE.

4. REINFORCING STEEL SHALL CONFORM TO ASTM A615, A616, OR A617, GRADE 60.

5. ALL CONTINUOUS REINFORCING STEEL THAT MEETS AT A CORNER SHALL BE TIED TOGETHER WITH A CORNER BAR THAT HAS SUFFICIENT LAP DISTANCE IN EACH DIRECTION 6. CONTINUOUS REINFORCING BARS LAP LENGTH SHALL BE A MINIMUM OF 48 BAR DIAMETERS UNLESS

7. CONCRETE SLUMP SHALL BE A MAXIMUM OF 4" +/- 1" (ASTM C- 143) AS DELIVERED IN THE FIELD. CONTRACTOR MAY USE CHEMICAL ADMIXTURES TO ATTAIN A MAXIMUM SLUMP OF 8" FOR WORKABILITY. NO WATER MAY BE ADDED TO THE CONCRETE MIX ON SITE UNLESS WATER IS WITHHELD AT THE BATCHING FACILITY. IF WATER IS WITHHELD AT THE BATCHING FACILITY IT SHOULD BE REFLECTED ON THE LOAD TICKET. THE TOTAL AMOUNT OF WATER IN THE MIX SHALL NOT EXCEED WHAT IS NOTED ON THE APPROVED MIXED. THIS SHALL BE NOTED IN THE SPECIAL INSPECTOR'S RECORDS.

8. CONCRETE EXPOSED TO WEATHER, VEHICLES, AND/OR DEICING CHEMICALS SHALL BE AIR-ENTRAINED WITH 6% (+/-) 1.5% ENTRAINED AIR BY VOLUME AT POINT OF DISCHARGE. DO NOT ALLOW AIR CONTENT OF TROWELED FINISHED FLOORS TO EXCEED 3%.

9. SUBMIT CONCRETE MIX PROPORTIONS PRIOR TO START OF WORK. DO NOT BEGIN CONCRETE PRODUCTION UNTIL MIXES HAVE BEEN REVIEWED AND ARE ACCEPTABLE TO THE ENGINEER.

10.READY MIX CONCRETE SHALL COMPLY WITH REQUIREMENTS OF ASTM C94. 11.CONCRETE WORK EXECUTION

A. CONSTRUCT FORMS TO CORRECT SIZE, SHAPE, ALIGNMENT, ELEVATION AND POSITION; AND TO SUPPORT VERTICAL AND LATERAL LOADS.

B. POSITION, SUPPORT, AND SECURE REINFORCEMENT AGAINST DISPLACEMENT. MINIMUM CONCRETE COVER FOR REINFORCEMENT SHALL BE, UNLESS NOTED OTHERWISE ON THE DRAWINGS: CAST AGAINST AND EXPOSED TO EARTH.......3 INCHES EXPOSED TO EARTH OR WEATHER......2 INCHES

NOT EXPOSED TO WEATHER OR

IN CONTACT WITH EARTH......1 ½ INCHES C. PROVIDE CONTROL JOINTS IN SLABS-ON-GRADE AT NOT GREATER THAN 15 FEET ON CENTER IN EACH DIRECTION. SAW CUT CONTROL JOINTS MINIMUM 1/4 OF SLAB DEPTH, AS SOON AFTER SLAB FINISHING WITHOUT DISLODGING AGGREGATE.

D. STEEL TROWEL FINISH ALL INTERIOR CONCRETE SLABS, BROOM FINISH ALL EXTERIOR CONCRETE E. CURE ALL CONCRETE IN COMPLIANCE WITH ACI 301, USING A LIQUID TYPE MEMBRANE,

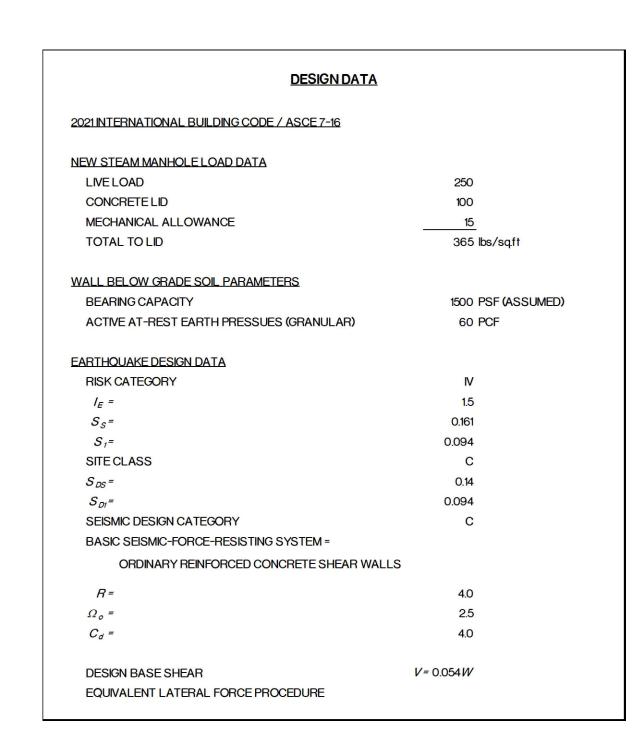
NON-RESIDUAL, CURING COMPOUND COMPLYING WITH ASTM C309. ASSURE COMPATIBILITY WITH FINISH FLOOR COVERING.

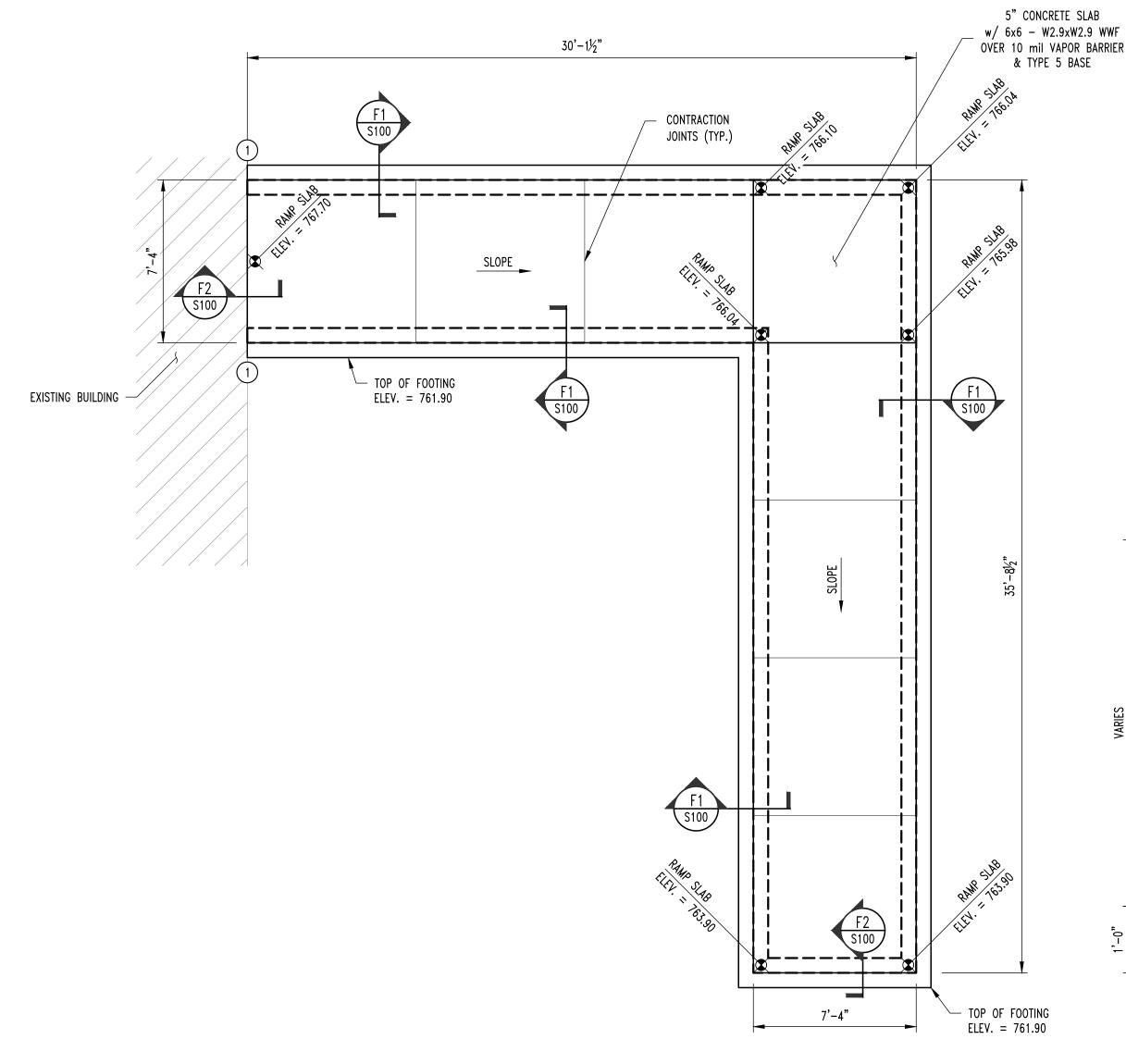
SPECIAL INSPECTIONS

THE FOLLOWING ITEMS REQUIRE SPECIAL INSPECTION IN ACCORDANCE WITH CHAPTER 17 OF THE INTERNATIONAL BUILDING CODE.

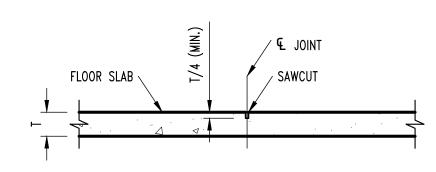
- a. CONCRETE GROUT DESIGN MIX (PERIODIC)
- b. PLACING OF CONCRETE AND REINFORCING STEEL (CONTINUOUS OF CONCRETE SAMPLING /
- PERIODIC OF REINFORCING)
- c. IN-SITU SOILS, EXCAVATIONS, FILLING & COMPACTION (PERIODIC)

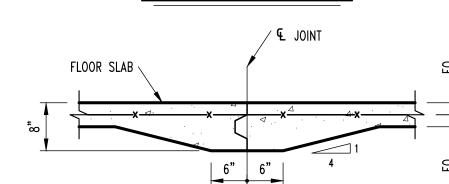
THE CONTRACTOR SHALL REQUEST SPECIAL INSPECTION OF THE ITEMS LISTED ABOVE PRIOR TO THOSE ITEMS BECOMING INACCESSIBLE AND UNOBSERVABLE DUE TO PROGRESSION OF THE WORK.









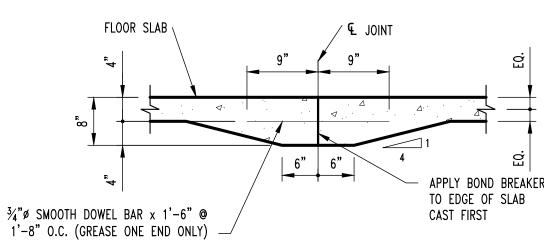


TYPICAL AT ALL REENTRANT CORNERS FOR SLAB-ON-GRADE & STRUCTURAL SLAB. REINFORCING TO BE CENTERED IN SLAB THICKNESS.

OPENING

CRACK CONTROL REINFORCING

(2) #4x4'-0" @ 3"



EXISTING - NEW

FOUNDATION

/─ ½" EXP. MATERIAL

RAMP SLAB @ EXISTING

- 5%"ø GREASED SMOOTH BAR x 1'-0"

w/ EXPANSION CAP w/ 3" LOOSE

RAMP SLAB

EMBEDMENT @ 1'-6" O.C.

— HAVE REBAR CLEAR OF

— RAMP SLAB

#4 BARS CONTINUOUS

@ 1'−2" O.C.

— #5 BENT BARS 중

COMPACTED

GRANULAR FILL

─ 2"ø PVC WEEPS

8'-8"

RAMP STEM WALL SECTION NOTE:

@ 10'-0" O.C.

#5 CONT. @

1'-0" O.C. EACH WAY

EXPOSED WALL REQUIRES

UNIFORM RUBBED CLASS A FINISH.

@ 1'-2" O.C. 蛨뎙L

CORE DRILLED RAILING

— #4 BENT BAR ≒

@ 2'-0" O.C. ∼

TOP OF CONCRETE

ELEV. = VARIES (SEE PLAN)

GUARDRAIL/SCREEN WALL

PER IBC (BY OTHERS)

#4 CONTINUOUS

¾" CHAMFERED −

EDGE (TYP.)

FINISH GRADE

2" CLR.

8" | 8"

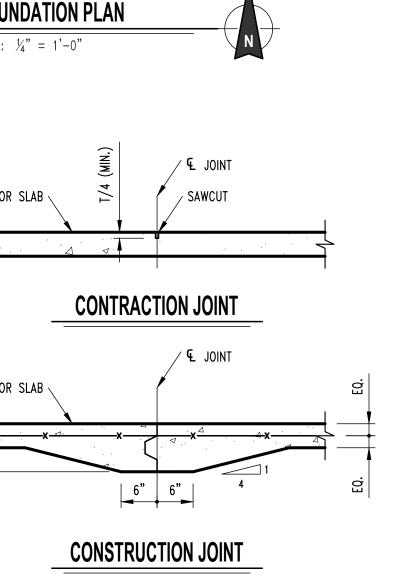
- 1) DOWEL NEW TO EXISTING w/ 4" EPOXY EMBEDMENT @ FOOTING & WALL.
- 2) REENTRANT CORNER BARS, REFER TO TYPICAL CRACK CONTROL REINFORCING DETAIL S210.



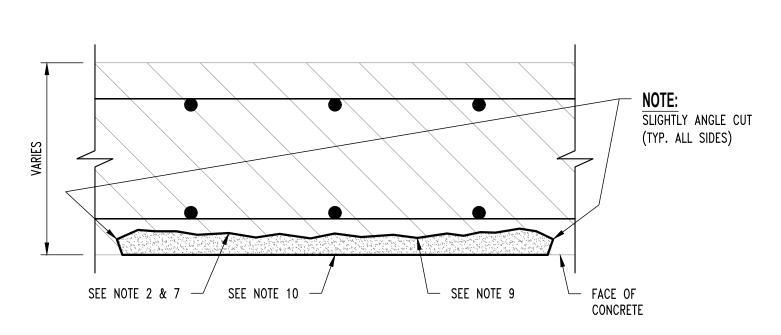


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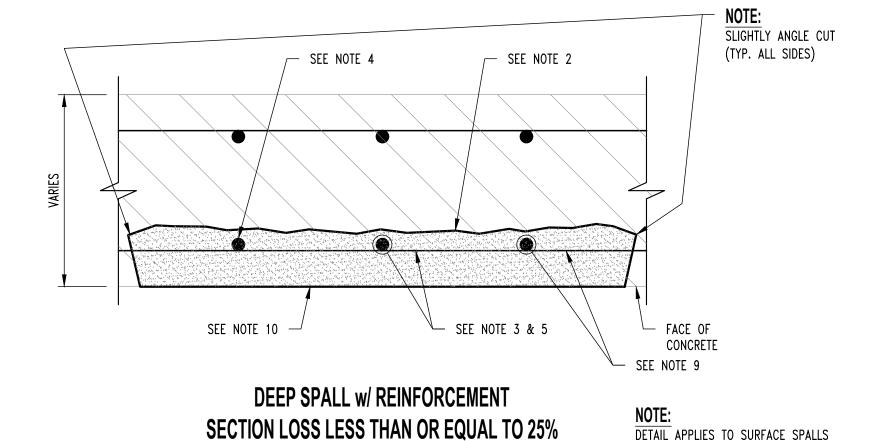
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CONSTRUCTION JOINT



SURFACE SPALL REPAIR DETAIL APPLIES TO SURFACE SPALLS WITH NO REINFORCEMENT EXPOSED. REPAIR #1



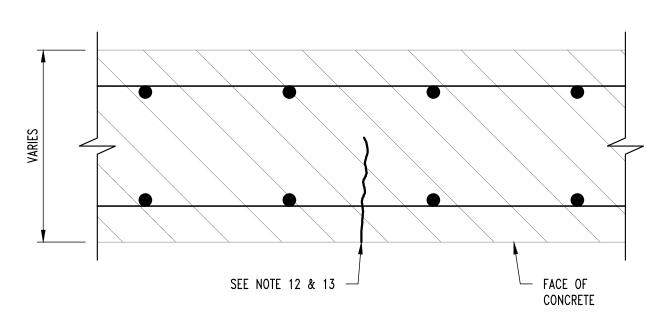
REPAIR #2

WITH REINFORCEMENT EXPOSED.

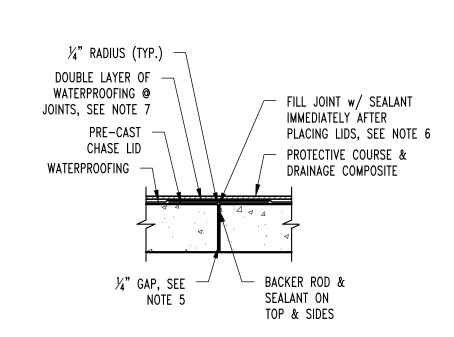
SLIGHTLY ANGLE CUT (TYP. ALL SIDES) — SEE NOTE 3 & 5 SEE NOTE 4 SEE NOTE 2 SEE NOTE 10 FACE OF CONCRETE ENLARGE OPENING AS REQ'D - SEE NOTE 9 FOR REINFORCEMENT SPLICE | DETERIORATED PORTION MECHANICAL SPLICE EA. SPLICE IN NEW REBAR TO MATCH END (TYP.) SEE NOTE 11 EXISTING WHERE SECTION LESS IS GREATER THAN 25%

DEEP SPALL w/ REINFORCEMENT SECTION LOSS GREATER THAN OR EQUAL TO 25%

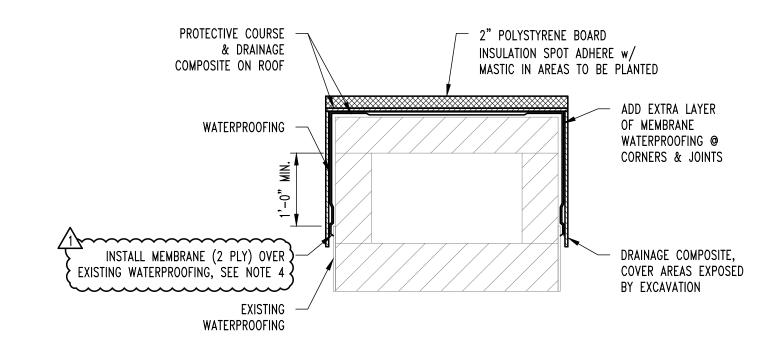
| NOTE: DETAIL APPLIES TO SURFACE SPALLS WITH REINFORCEMENT EXPOSED. REPAIR #3



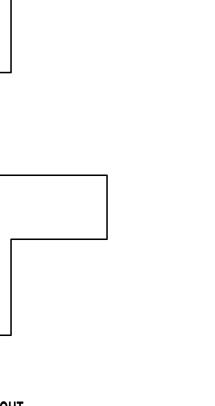
CRACK REPAIR DETAIL APPLIES TO CRACKS **REPAIR #4** LARGER THAN 0.03".



BELOW GRADE STEAM CHASE LID JOINT



TYP. EXISTING STEAM CHASE WATERPROOFING DETAIL

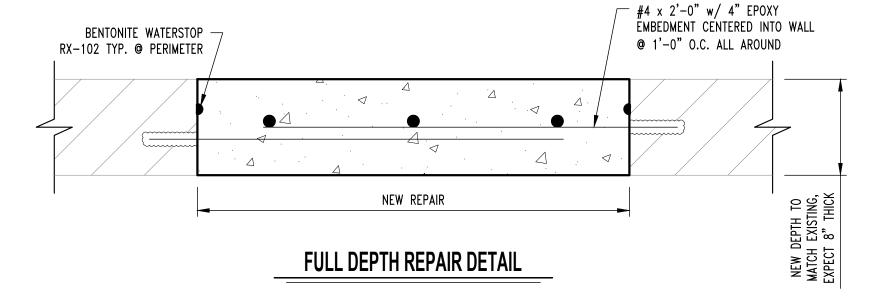


EXISTING BOUNDARY OF LOOSE. SPALLED, OR DELAMINATED CONCRETE

RECOMMENDED LAYOUT

DETERIORATED CONCRETE SURFACE REPAIR

1. REPAIR CONFIGURATIONS TO BE KEPT AS SIMPLE AS POSSIBLE. CORNERS MUST BE SQUARED TO AVOID FEATHERED EDGES.



TYPICAL WATERPROOFING NOTES

- (1) OVERLAP HOT AND COLD APPLIED MEMBRANES PER MANUFACTURER'S REQUIREMENTS.
- (2) CONTRACTOR SHALL PROTECT UNDER SLAB WATERPROOFING FROM HOT APPLIED WATERPROOFING.
- (3) PREPARE ALL JOINTS IN ACCORDANCE w/ WATERPROOFING MANUFACTURER'S INSTRUCTIONS & DETAILS.
- 4 CONTRACTOR SHALL PROPERLY PREPARE EXISTING CONCRETE SUBSTRATE & EXISTING WATERPROOFING TO PROPERLY INTERFACE w/ NEW WATERPROOFING SYSTEMS TO OBTAIN WATERPROOF JOINT.
- \langle 5 \rangle butt lids tightly together @ pre cast lids w/ 1/4" shim PLATE BETWEEN. REMOVE SHIM PLATES AFTER LIDS ARE IN FINAL POSITION & SEAL.
- (6) ALL SEALANTS SHALL BE COMPATIBLE W/ WATERPROOFING SYSTEM.
- ⟨ 7 ⟩ PREPARE ALL JOINTS IN ACCORDANCE w/ WATERPROOFING

MANUFACTURER'S INSTRUCTIONS & DETAILS.

GENERAL NOTES

- 1. ALL CONCRETE, REINFORCING, AND WATERPROOFING SHALL MEET THE SPECIFICATIONS IN DIVISION 33.
- 2. WATERPROOFING SHOP DRAWINGS SHALL BE PROVIDED PER THE SPECIFICATIONS IN DIVISION 33.
- 3. ALL UTILITIES IN AREA OF MANHOLE MAY BE ACTIVE DURING THE DURATION OF THE PROJECT INCLUDING THE STEAMLINES INSIDE THE MANHOLE. PIPING THAT WILL REMAIN NEEDS TO BE PROTECTED AS TO NOT DAMAGE DURING CONSTRUCTION. ANY DAMAGED MATERIALS WILL BE REPLACED AT THE CONTRACTOR'S EXPENSE. CONTRACTOR IS TO LIMIT WATER ENTRY INTO STEAM SYSTEM DURING CONSTRUCTION.
- 4. ALL BACKFILL SHALL BE MODOT TYPE 1 OR 5 AND SHALL HAVE COMPACTION TESTS COMPLETED IN 8 INCH LIFTS PER SPECIFICATION. 5. ALL WATERSTOPS SHALL BE SECURELY FASTENED INTO PLACE AND FULLY INSPECTED BY THE OWNER. CONCRETE CANNOT BE CAST AGAINST WATERSTOPS UNTIL APPROVED BY THE OWNER. OWNER SHALL RECEIVE
- 6. ALL CONCRETE WATERPROOFING SHALL INSPECTED BY THE OWNER PRIOR TO PROCEEDING TO NEXT STEP OF INSTALLATION. OWNER SHALL RECEIVE 24 HOUR NOTICE OF INSPECTIONS BEING REQUIRED. THESE INSPECTIONS FOR APPROVAL INCLUDE:
- a. SUBSTRATE CONDITIONS READY FOR WATERPROOFING

24 HOUR NOTICE OF INSPECTIONS BEING REQUIRED.

- b. CRACK AND HOLE SURFACE PREPARATIONS COMPLETED
- c. FLASHING INSTALLATION COMPLETE
- d. MEMBRANE INSTALLATION COMPLETE e. PROTECTION AND DRAINAGE INSTALLATION COMPLETE
- (10) WHILE CONCRETE PRIMER IS STILL WET, APPLY PATCH MATERIAL PER MANUFACTURERS SPECIFICATIONS. FOR APPLICATIONS GREATER THAN 1" IN DEPTH, APPLY PATCH MATERIAL IN LIFTS. SCORE THE TOP SURFACE OF EACH LIFT AND ALLOW EACH LIFT TO REACH FINAL SET THEN REPEAT FROM STEP 8.
- (11) PROVIDE MECHANICAL SPLICE CAPABLE OF DEVELOPING 125% Fy. MAINTAIN A MINIMUM OF 1½" CONCRETE COVER AT ALL NEW AND EXISTING REINFORCEMENT.
- (12) CLEAN CRACK SURFACES AND REMOVE ANY FOREIGN MATTER AND
- (13) INSTALL POLYMER MODIFIED CEMENTITIOUS PATCHING MATERIAL PER MANUFACTURERS SPECIFICATION AND TOOL SURFACE TO MATCH SURROUNDING SURFACE. SIKATOP-123 OR APPROVED EQUAL.
- LID REPAIRS REQUIRE SHORING TO BE INSTALLED PRIOR TO DAMAGED CONCRETE BEING REMOVED. SHORING SHALL PROVIDE ADEQUATE SUPPORT TO STRUCTURE UNTIL PATCH IS INSTALLED AND CURED.

BAR SIZE	NOMINAL DIAMETER (IN.)	MINIMUM ALLOWABLE DIAMETER (IN.)		
#3	0.375	0.325		
#4	0.500	0.433		
#5	0.625	0.541		
#6	0.750	0.650		
#7	0.875	0.758		
#8	1.000	0.866		
#9	1.128	0.977		
#10	1.270	1.100		

REINFORCING BAR DIAMETER TABLE

CONCRETE REPAIR NOTES

LOCATION OF EACH DEFICIENCY NOTED.

DEPTH OF $\frac{3}{4}$ ". DO NOT FEATHER EDGES.

SPRAY APPLIED REPAIR MATERIALS.

APPROVED EQUAL).

PROFILE ROUGHENED.

(7) MINIMUM DEPTH OF PATCH TO BE $\frac{3}{8}$ ".

STANDING WATER DURING APPLICATION.

SIKA FERROGARD 901 OR APPROVED EQUAL.

(3) CARE SHOULD BE EXERCISED NOT TO DAMAGE EXISTING

(1) PRIOR TO PERFORMING ANY CONCRETE REPAIRS, CONTRACTOR

DETECT ANY DEFICIENCIES NOT SHOWN ON THE CONTRACT

CONCRETE SURFACE AND NOTIFY OWNER'S REPRESENTATIVE.

(2) REMOVE ALL LOOSE AND DETERIORATED CONCRETE. CHIP OUT AND

REINFORCING STEEL DURING CONCRETE REMOVAL. CONCRETE

REMOVAL SHALL EXTEND TO WHERE BAR IS WELL BONDED TO

TO DAMAGE THE BAR'S BOND TO SURROUNDING CONCRETE. IF

(4) IF HALF OF THE THICKNESS OF THE REINFORCEMENT BAR OR MORE

(5) MECHANICALLY CLEAN STEEL BY SANDBLASTING OR WIRE BRUSH TO

IS EXPOSED PROVIDE A MINIMUM OF 1/2" CLEARANCE BETWEEN EXPOSED REINFORCEMENT AND SURROUNDING CONCRETE FOR HAND

APPLIED REPAIR MATERIALS AND A MINIMUM OF 1" CLEARANCE FOR

WHITE METAL CONDITION TO REMOVE CORROSION. AFTER CLEANING

REINFORCING STEEL, MEASURE DIAMETER AT NARROWEST POINT. IF

CONCRETE COVER AT ALL NEW AND EXISTING REINFORCEMENT, ANY REINFORCEMENT TO BE DRILLED AND GROUTED INTO EXISTING

CONCRETE SHALL USE HILTI HIT HY 200 MAX EPOXY ADHESIVE (OR

SECTION LOSS IS GREATER THAN 25% (SEE "REINFORCING BAR

DIAMETER TABLE" ON THIS SHEET) ADD NEW REINFORCING BAR

MATCHING SIZE OF EXISTING. MAINTAIN A MINIMUM OF 11/3"

(6) SCARIFY CONCRETE SURFACE TO OBTAIN CONCRETE SURFACE

(8) SUBSTRATE SHOULD BE SATURATED SURFACE DRY (SSD) WITH NO

SPECIFICATIONS. APPLY TWO COATS OF ANTI-CORROSION COATING

REINFORCEMENT ALLOWING TO PROPERLY DRY BETWEEN COATS.

(9) APPLY CONCRETE PRIMER TO SUBSTRATE PER MANUFACTURERS

PER MANUFACTURERS SPECIFICATIONS TO ALL EXPOSED

THE BAR IS REQUIRED AS SPECIFIED IN ITEM 4 BELOW.

SURROUNDING SOUND CONCRETE. CARE SHALL BE EXERCISED NOT

BOND BETWEEN BAR AND CONCRETE IS BROKEN, UNDERCUTTING OF

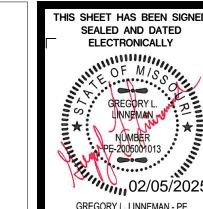
DOCUMENTS. IF DEFICIENCIES ARE DETECTED, MARK OUTLINE ON

PROVIDE OWNER'S REPRESENTATIVE WITH APPROXIMATE SIZE AND

PATCH AREA 1/2" MIN. BEYOND SPALLED SURFACE. AT BOUNDARIES

OF DETERIORATED CONCRETE, SAWCUT BOUNDARY TO A MINIMUM

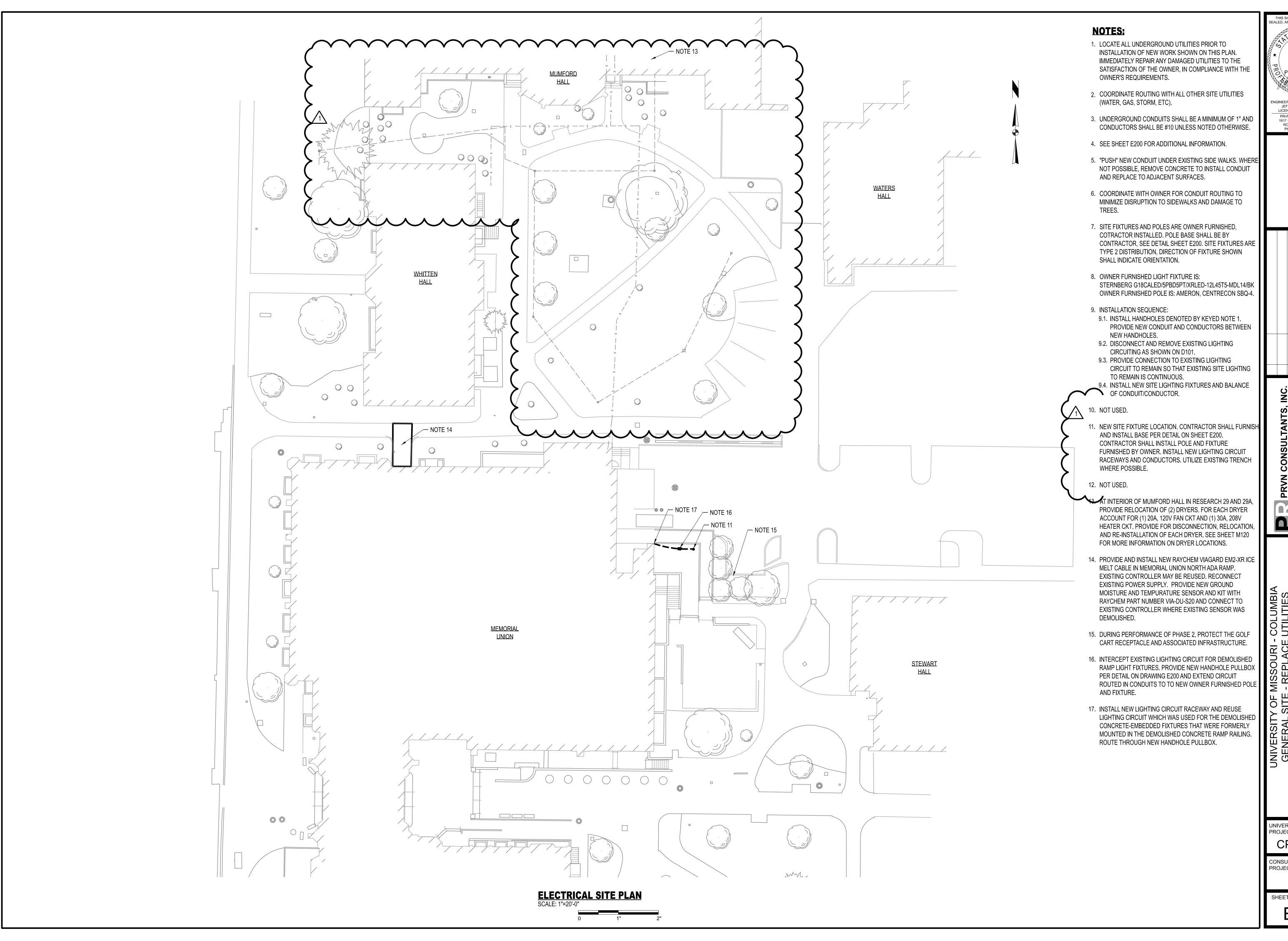
SHALL EXAMINE THE ENTIRE CONCRETE SURFACE BY SOUNDING TO



GREGORY L. LINNEMAN - PE MO LICENSE - 2005001013

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