



Dewberry Engineers Inc.
2610 Wyckoff Road
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Raleigh, NC 27607-3073
919.881.9939
NC License No. F-0829

EAST CAROLINA UNIVERSITY MAIN CAMPUS REPLACE CONDENSATE BATE TO WRIGHT STEAM TUNNEL
GREENVILLE, NC 27858

SEAL



KEY PLAN

SCALE

REVISIONS

Table with 3 columns: NO., DESCRIPTION, DATE

DRAWN BY: JJP
APPROVED BY: JJP
CHECKED BY: JMT
DATE: JANUARY 9, 2026

TITLE
BUILDING CODE SUMMARY

SCO ID #: 24-28174-01A
ECU PROJECT #: AIM CP# 2097
DEI PROJECT #: 50183387

G0.02

SHEET NO.

2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS ELECTRICAL DESIGN
ELECTRICAL SUMMARY
ELECTRICAL SYSTEM AND EQUIPMENT

2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS THERMAL ENVELOPE
THERMAL ENVELOPE (Prescriptive Method only)
Roofing Assembly (each assembly)
Walls below grade (each assembly)

2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS FIRE PROTECTION REQUIREMENTS
FIRE PROTECTION REQUIREMENTS
BUILDING ELEMENT FIRE SEPARATION INSTANT (FEET) RATING PROVIDER (OR APPROXIMATE) DETAIL # AND SHEET # DESIGN # FOR RATED ANSEMBLY DESIGN # FOR PENETRATION DESIGN # FOR RATED DOOR

2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS (EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES)
Name of Project: East Carolina University - Main Campus Replace Condensate Bate to Wright Steam Tunnel
Address: Bate Building, ECU, E 5th St, Greenville, NC Zip Code 27858

2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS STRUCTURAL DESIGN
DESIGN LOADS
Importance Factors: Seismic (I) 1.0
Live Loads: Roof N/A psf
Mezzanine N/A psf
Floor N/A psf
Ground Snow Load: N/A psf
Wind Load: Ultimate Wind Speed N/A mph (ASCE-7)

2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS LIFE SAFETY SYSTEM REQUIREMENTS
LIFE SAFETY SYSTEM REQUIREMENTS
Life Safety Plan Sheet
Fire and/or smoke alarm locations (Chapter 7)
Assumed and real property line locations (if not on the site plan)

2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS BASIC BUILDING DATA
Construction Type: I-A, I-B, I-C, I-D, I-E, I-F, I-G, I-H, I-I, I-J, I-K, I-L, I-M, I-N, I-O, I-P, I-Q, I-R, I-S, I-T, I-U, I-V, I-W, I-X, I-Y, I-Z
Sprinklers: Yes/No
Standpipes: Yes/No
Fire Detection: Yes/No

2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS MECHANICAL DESIGN
MECHANICAL SUMMARY
MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT
Thermal
Interior design conditions
Building heating load
Building cooling load

2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS ACCESSIBLE PARKING
ACCESSIBLE PARKING (SECTION 1106)
TOTAL # OF PARKING SPACES
TOTAL # OF ACCESSIBLE SPACES PROVIDED

2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS ACCESSIBLE DWELLING UNITS
ACCESSIBLE DWELLING UNITS (SECTION 1107)
TOTAL UNITS PROVIDED
TOTAL UNITS REQUIRED



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EAST CAROLINA UNIVERSITY MAIN CAMPUS
REPLACE CONDENSATE BATE TO WRIGHT STEAM TUNNEL
GREENVILLE, NC 27858

GENERAL NOTES:

1. ALL UNDERGROUND UTILITIES LOCATED AS APPROXIMATE. CONTRACTOR TO FIELD VERIFY PRIOR TO CONSTRUCTION. ALL EXISTING UTILITIES TO BE LEFT UNDISTURBED SHALL BE PROTECTED AND REMAIN ACTIVE.
2. ALL CONSTRUCTION AND MATERIAL SPECIFICATIONS SHALL CONFORM TO THE PROJECT DRAWING AND SPECIFICATIONS.
3. THE PROJECT SITE IS NOT LOCATED IN ANY SPECIAL FLOOD HAZARD AREAS OR FUTURE CONDITIONS FLOOD HAZARD AREAS, AS SHOWN ON FEMA MAP NUMBERS 3720468800K AND 3720468700K BOTH DATED 7/7/2014.

NOTE:

DESIGN BASED ON BOTH THE EXISTING CONDITIONS AT TIME OF DESIGN AND DRAWINGS OF ANTICIPATED IMPROVEMENTS PROVIDED TO US BY ECU. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR VERIFYING ALL EXISTING CONDITIONS PRIOR TO BEGINNING CONSTRUCTION. NOTIFY ENGINEER IN WRITING OF ALL DISCREPANCIES NOTED AND WAIT FOR DIRECTION PRIOR TO PROCEEDING.

NOTE:

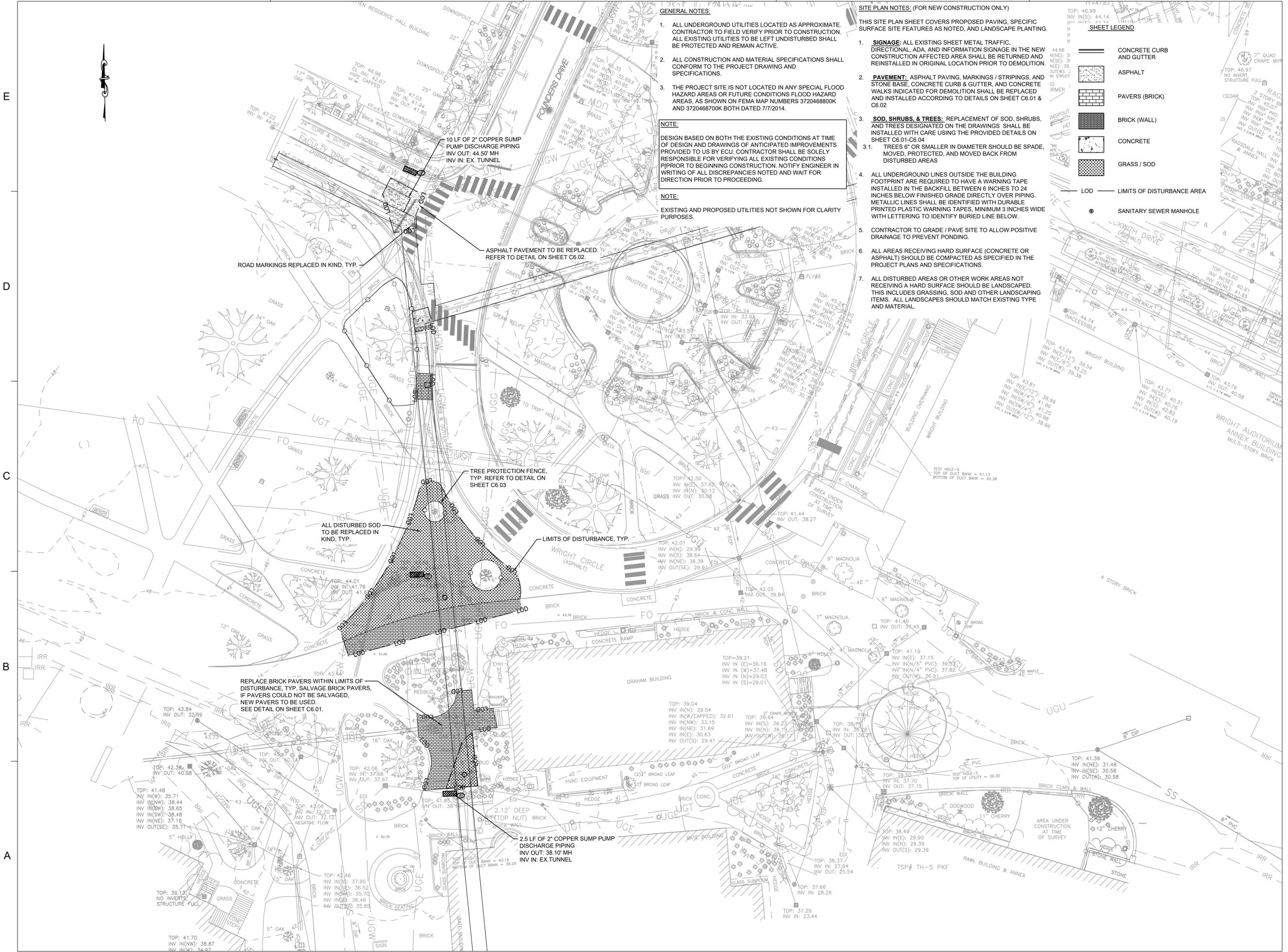
EXISTING AND PROPOSED UTILITIES NOT SHOWN FOR CLARITY PURPOSES.

SITE PLAN NOTES: (FOR NEW CONSTRUCTION ONLY)

- THIS SITE PLAN SHEET COVERS PROPOSED PAVING, SPECIFIC SURFACE SITE FEATURES AS NOTED, AND LANDSCAPE PLANTING.
1. **SIGNAGE:** ALL EXISTING SHEET METAL TRAFFIC DIRECTIONAL, ADA, AND INFORMATION SIGNAGE IN THE NEW CONSTRUCTION AFFECTED AREA SHALL BE RETURNED AND REINSTALLED IN ORIGINAL LOCATION PRIOR TO DEMOLITION.
 2. **PAVEMENT:** ASPHALT PAVING, MARKINGS / STRIPINGS, AND STONE BASE, CONCRETE CURB & GUTTER, AND CONCRETE WALKS INDICATED FOR DEMOLITION SHALL BE REPLACED AND INSTALLED ACCORDING TO DETAILS ON SHEET C6.01 & C6.02.
 3. **SOD, SHRUBS, & TREES:** REPLACEMENT OF SOD, SHRUBS, AND TREES DESIGNATED ON THE DRAWINGS SHALL BE INSTALLED WITH CARE USING THE PROVIDED DETAILS ON SHEET C6.01-C6.04
 - 3.1. TREES 6" OR SMALLER IN DIAMETER SHOULD BE SPADE, MOVED, PROTECTED, AND MOVED BACK FROM DISTURBED AREAS
 4. ALL UNDERGROUND LINES OUTSIDE THE BUILDING FOOTPRINT ARE REQUIRED TO HAVE A WARNING TAPE INSTALLED IN THE BACKFILL BETWEEN 6 INCHES TO 24 INCHES BELOW FINISHED GRADE DIRECTLY OVER PIPING. METALLIC LINES SHALL BE IDENTIFIED WITH DURABLE PRINTED PLASTIC WARNING TAPES, MINIMUM 3 INCHES WIDE WITH LETTERING TO IDENTIFY BURIED LINE BELOW.
 5. CONTRACTOR TO GRADE / PAVE SITE TO ALLOW POSITIVE DRAINAGE TO PREVENT PONDING.
 6. ALL AREAS RECEIVING HARD SURFACE (CONCRETE OR ASPHALT) SHOULD BE COMPACTED AS SPECIFIED IN THE PROJECT PLANS AND SPECIFICATIONS.
 7. ALL DISTURBED AREAS OR OTHER WORK AREAS NOT RECEIVING A HARD SURFACE SHOULD BE LANDSCAPED. THIS INCLUDES GRASSING, SOD AND OTHER LANDSCAPING ITEMS. ALL LANDSCAPES SHOULD MATCH EXISTING TYPE AND MATERIAL.

SHEET LEGEND

- CONCRETE CURB AND GUTTER
- ASPHALT
- PAVERS (BRICK)
- BRICK (WALL)
- CONCRETE
- GRASS / SOD
- LOD - LIMITS OF DISTURBANCE AREA
- SANITARY SEWER MANHOLE

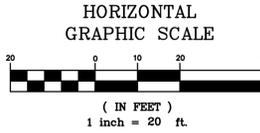


SEAL



KEY PLAN

SCALE



REVISIONS

NO.	DESCRIPTION	DATE

DRAWN BY ELI
 APPROVED BY ARH
 CHECKED BY JFA
 DATE JANUARY 9, 2026
 TITLE

SITE PLAN

SCO ID #: 24-28174-01A
 ECU PROJECT #: AIM CP# 2097
 DEI PROJECT #: 50183387

C2.00

SHEET NO.

**EAST CAROLINA UNIVERSITY
 MAIN CAMPUS
 REPLACE CONDENSATE
 BATE TO WRIGHT STEAM TUNNEL**

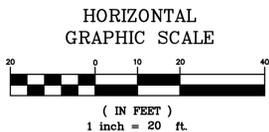
GREENVILLE, NC 27858

SEAL



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WAYFINDING PLAN

SCO ID #: 24-28174-01A
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C3.00

SHEET NO.

LEGEND

- EOI END OF INFORMATION
- BOLLARD
- BUSH
- YARD INLET STANDARD
- SURVEY CONTROL
- CLEAN OUT
- DRAIN INLET GRATE
- ELECTRIC BOX
- ELECTRIC MANHOLE
- ELECTRIC TELEPHONE
- POST INDICATOR VALVE
- FIRE HYDRANT
- UTILITY MARKER POST
- GAS METER
- GROUND LIGHT
- GAS VALVE
- HANDICAP
- IRRIGATION VALVE
- LIGHT POLE
- POST
- STORM DRAIN MANHOLE
- SANITARY SEWER MANHOLE
- SIGN
- ROAD MARKINGS
- TRAFFIC CONTROL BOX
- TRAFFIC POLE
- TELEPHONE MANHOLE
- UTILITY HANDHOLE
- VAULT
- WATER METER
- WATER MANHOLE
- WATER VALVE
- YARD INLET GRATE
- STEAM MANHOLE
- UNDERGROUND CABLE TV
- UNDERGROUND GAS LINE
- UNDERGROUND STEAM
- UNKNOWN UNDERGROUND UTILITY
- SANITARY SEWER
- STORM DRAIN
- UNDERGROUND FIBER OPTIC
- UNDERGROUND ELECTRIC
- UNDERGROUND WATER LINE
- UNDERGROUND IRRIGATION WATER LINE
- UNDERGROUND TELEPHONE
- CHAIN LINK FENCE
- FENCE
- RIP RAP
- BUSH LINE
- WOODS LINE
- CURB & GUTTER

CROSSWALKS TO REMAIN OPEN DURING CONSTRUCTION

A 5 FOOT WIDE PATH FOR SIDEWALK SHALL BE MAINTAINED OPEN DURING CONSTRUCTION IN THIS LOCATION.

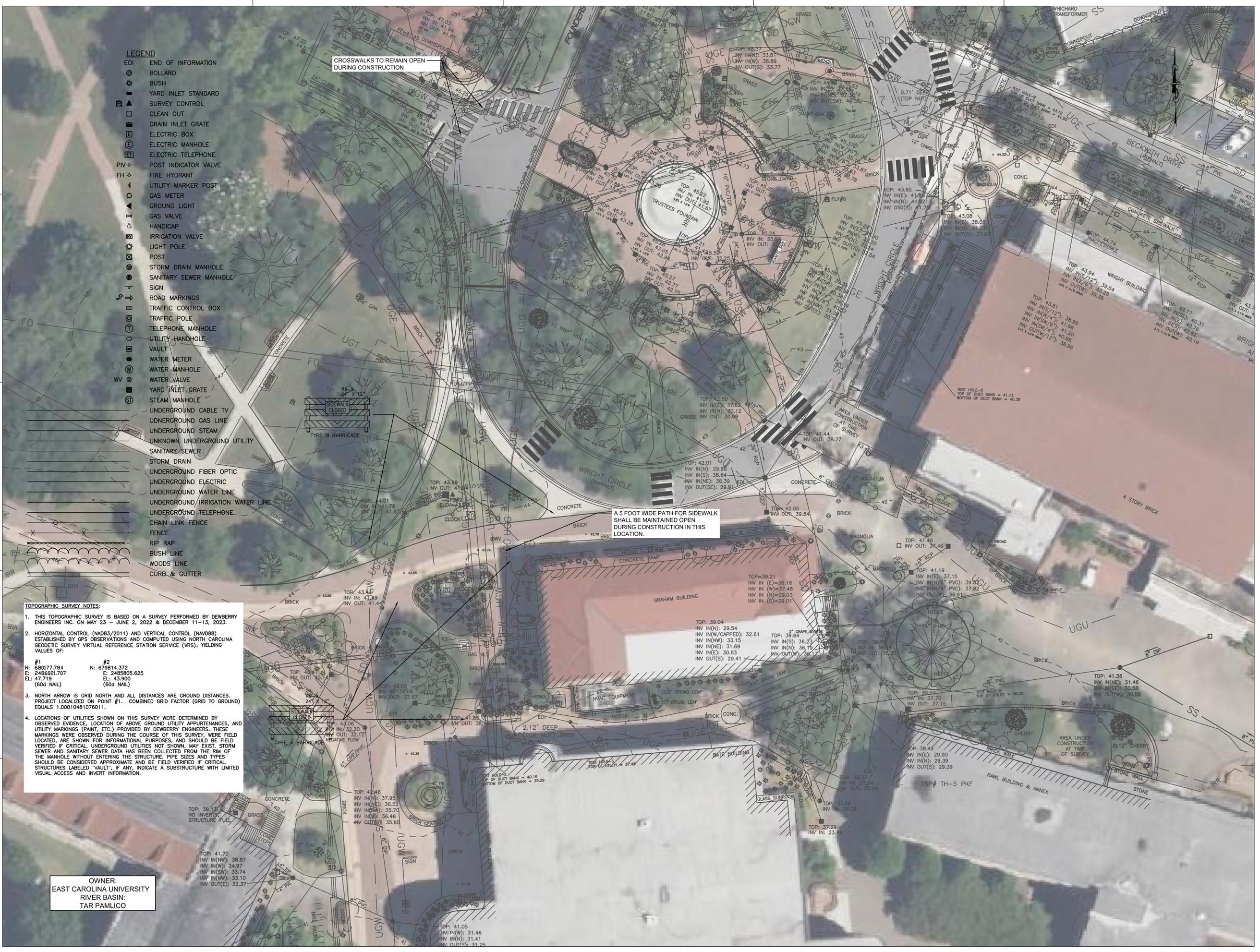
TOPOGRAPHIC SURVEY NOTES:

- THIS TOPOGRAPHIC SURVEY IS BASED ON A SURVEY PERFORMED BY DEWBERRY ENGINEERS INC. ON MAY 23 - JUNE 2, 2022 & DECEMBER 11-13, 2023.
- HORIZONTAL CONTROL (NAD83/2011) AND VERTICAL CONTROL (NAVD88) ESTABLISHED BY GPS OBSERVATIONS AND COMPUTED USING NORTH CAROLINA GEODETIC SURVEY VIRTUAL REFERENCE STATION SERVICE (VRS), YIELDING VALUES OF:

#1	#2
N: 680177.784	N: 679814.372
E: 2486021.707	E: 2485805.625
EL: 47.719	EL: 43.900
(60d NAIL)	(60d NAIL)
- NORTH ARROW IS GRID NORTH AND ALL DISTANCES ARE GRID DISTANCES. PROJECT LOCALIZED ON POINT #1. COMBINED GRID FACTOR (GRID TO GROUND) EQUALS 1.00010481076011.
- LOCATIONS OF UTILITIES SHOWN ON THIS SURVEY WERE DETERMINED BY OBSERVED EVIDENCE, LOCATION OF ABOVE GROUND UTILITY APPURTENANCES, AND UTILITY MARKINGS (PAINT, ETC.) PROVIDED BY DEWBERRY ENGINEERS. THESE MARKINGS WERE OBSERVED DURING THE COURSE OF THIS SURVEY, WERE FIELD LOCATED, ARE SHOWN FOR INFORMATIONAL PURPOSES, AND SHOULD BE FIELD VERIFIED IF CRITICAL. UNDERGROUND UTILITIES NOT SHOWN, MAY EXIST. STORM SEWER AND SANITARY SEWER DATA HAS BEEN COLLECTED FROM THE RIM OF THE MANHOLE WITHOUT ENTERING THE STRUCTURE. PIPE SIZES AND TYPES SHOULD BE CONSIDERED APPROXIMATE AND BE FIELD VERIFIED IF CRITICAL. STRUCTURES LABELED "VAULT," IF ANY, INDICATE A SUBSTRUCTURE WITH LIMITED VISUAL ACCESS AND INERT INFORMATION.

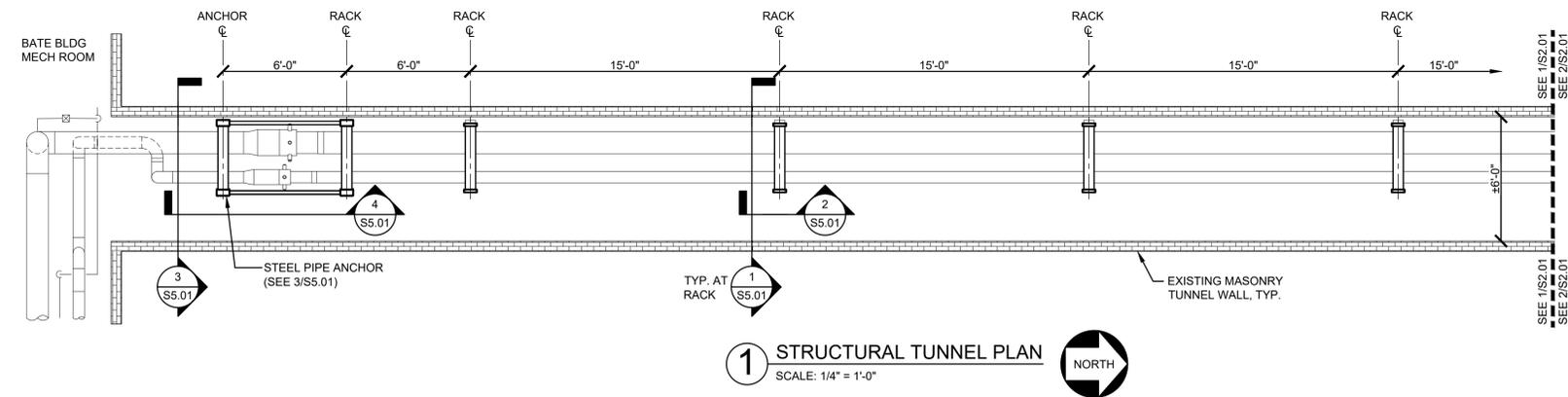
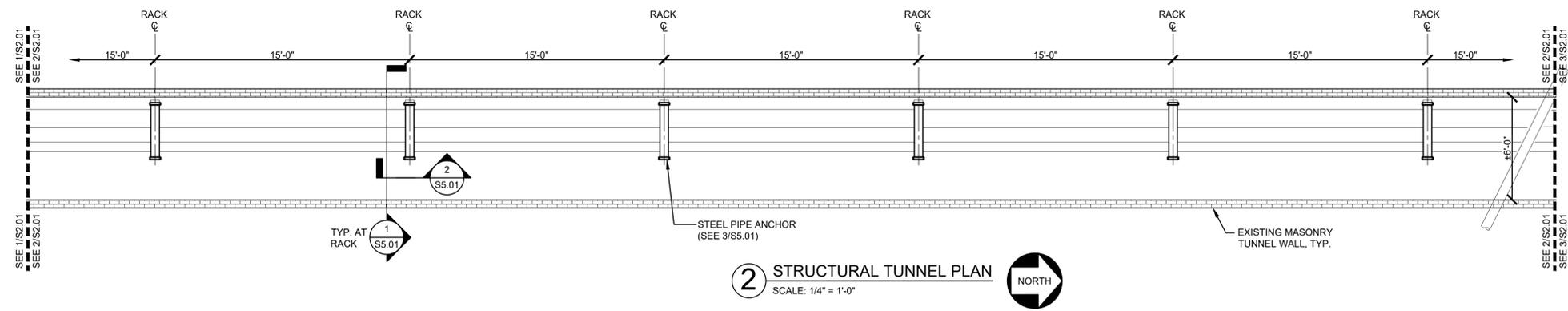
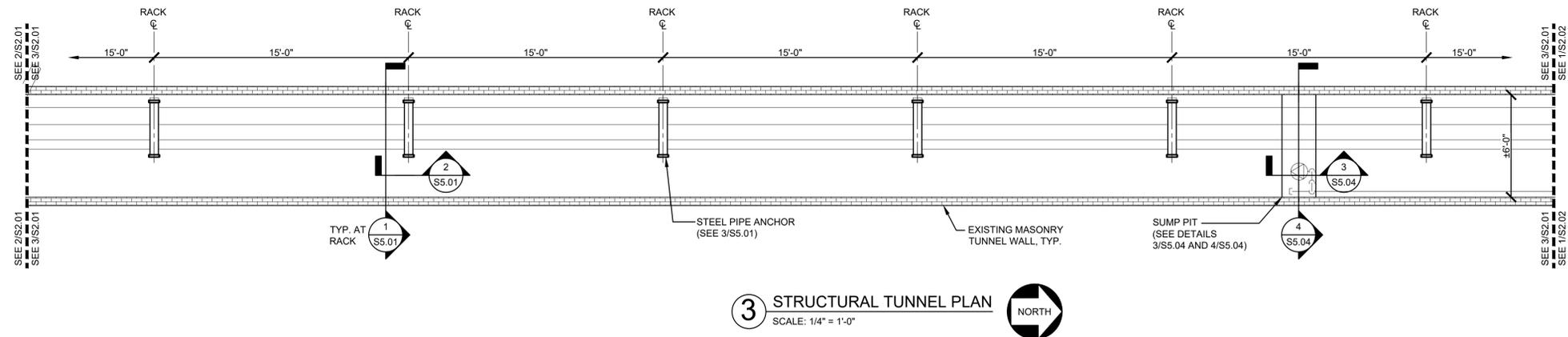
OWNER:
 EAST CAROLINA UNIVERSITY
 RIVER BASIN:
 TAR PAMLILO

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STRUCTURAL TUNNEL PLAN NOTES:

- SEE SHEET S0.01 FOR GENERAL STRUCTURAL NOTES.
- REPAIR ACTIVELY LEAKING CRACKS IN BRICK TUNNEL WALLS PER DETAIL 2/S0.01. FOR BIDDING PURPOSES ASSUME 250 LINEAR FEET OF CRACK REPAIR.
- CONTRACTOR SHALL DEMOLISH ALL EXISTING UTILITIES, INSTALL NEGATIVE SIDE WATERPROOFING PER SPECIFICATIONS BEFORE INSTALLING NEW PIPING AND SUPPORTS. COORDINATE ALL STEEL SUPPORT RACK LOCATIONS WITH SLIDE/GUIDE/ANCHOR LOCATIONS SHOWN ON THE MECHANICAL PLANS. CARE SHALL BE TAKEN TO AVOID DAMAGE TO NEGATIVE SIDE WATERPROOFING WHILE INSTALLING PIPING.



SEAL



KEY PLAN

SCALE

REVISIONS

NO.	DESCRIPTION	DATE

DRAWN BY: SAC
 APPROVED BY: ARP
 CHECKED BY: EAS
 DATE: JANUARY 9, 2026
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STRUCTURAL TUNNEL PLAN

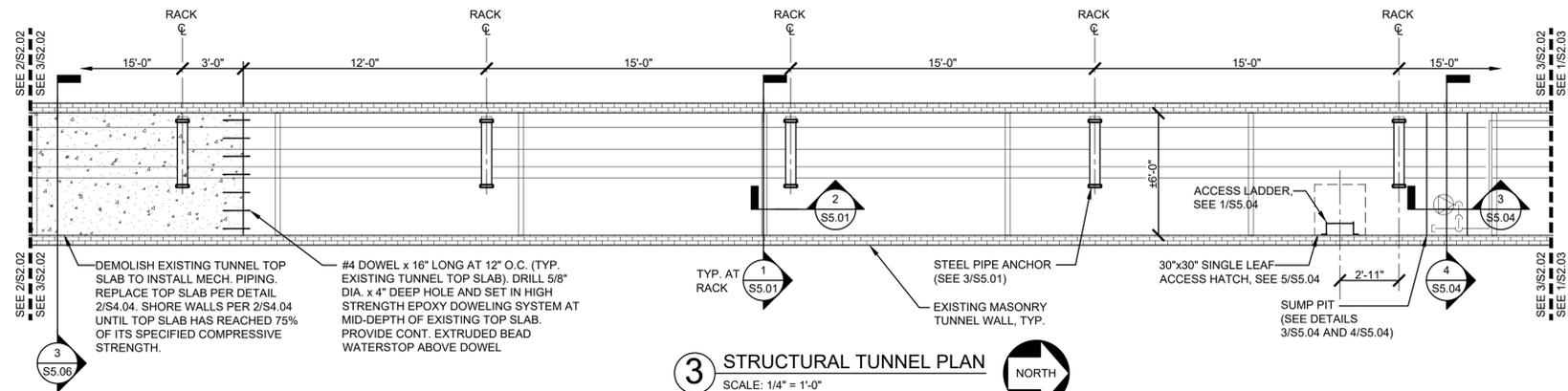
SCO ID #: 24-28174-01A
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 DEI PROJECT #: 50183387

S2.01

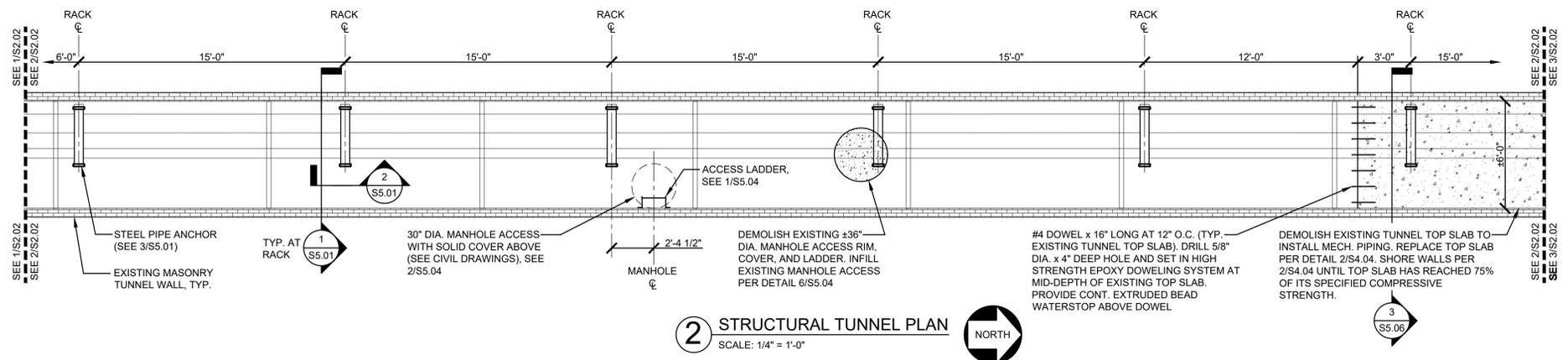
SHEET NO.

STRUCTURAL TUNNEL PLAN NOTES:

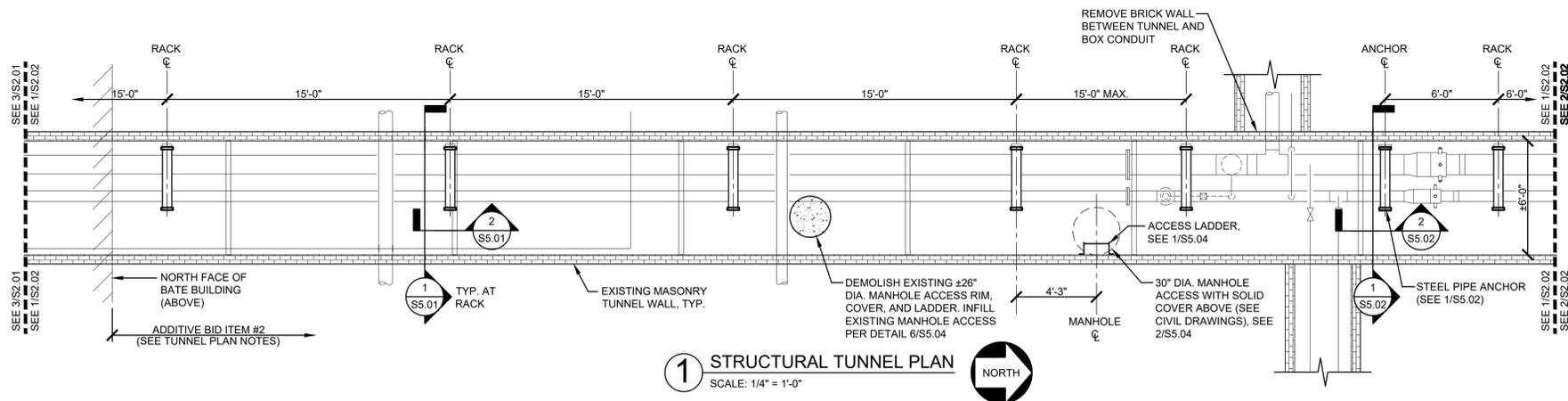
- SEE SHEET S0.01 FOR GENERAL STRUCTURAL NOTES.
- REPAIR ACTIVELY LEAKING CRACKS IN BRICK TUNNEL WALLS PER DETAIL 2/S0.01. FOR BIDDING PURPOSES ASSUME 250 LINEAR FEET OF CRACK REPAIR.
- CONTRACTOR SHALL DEMOLISH ALL EXISTING UTILITIES, INSTALL NEGATIVE SIDE WATERPROOFING PER SPECIFICATIONS BEFORE INSTALLING NEW PIPING AND SUPPORTS. COORDINATE ALL STEEL SUPPORT RACK LOCATIONS WITH SLIDE/GUIDE/ANCHOR LOCATIONS SHOWN ON THE MECHANICAL PLANS. CARE SHALL BE TAKEN TO AVOID DAMAGE TO NEGATIVE SIDE WATERPROOFING WHILE INSTALLING PIPING.
- ADDITIVE BID ITEM #2: COAT INTERIOR OF TUNNEL WALLS WITH NEGATIVE SIDE WATERPROOFING PRIOR TO INSTALLING STEEL RACKS AND ANCHORS.



3 STRUCTURAL TUNNEL PLAN
SCALE: 1/4" = 1'-0"



2 STRUCTURAL TUNNEL PLAN
SCALE: 1/4" = 1'-0"



1 STRUCTURAL TUNNEL PLAN
SCALE: 1/4" = 1'-0"

SEAL



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S2.02

SHEET NO.

1

2

3

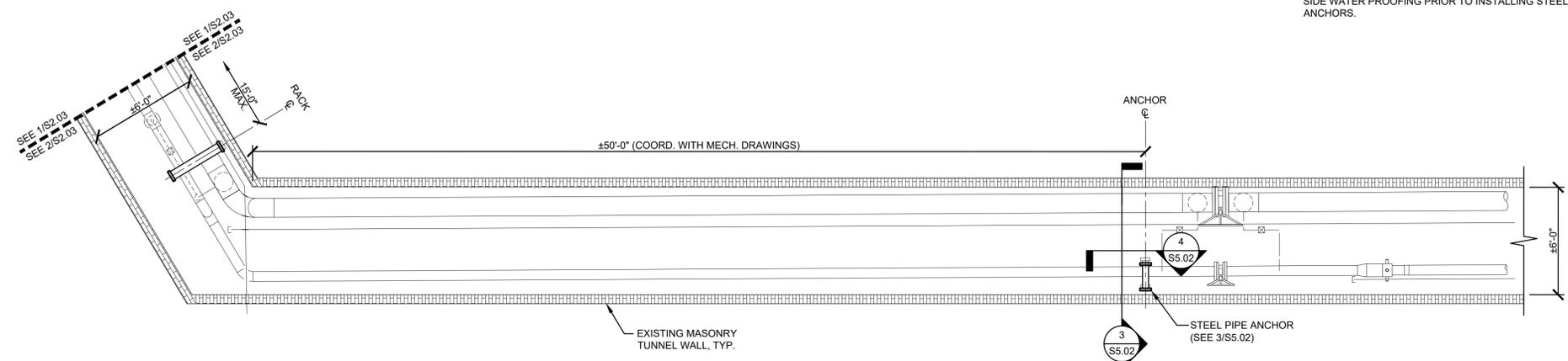
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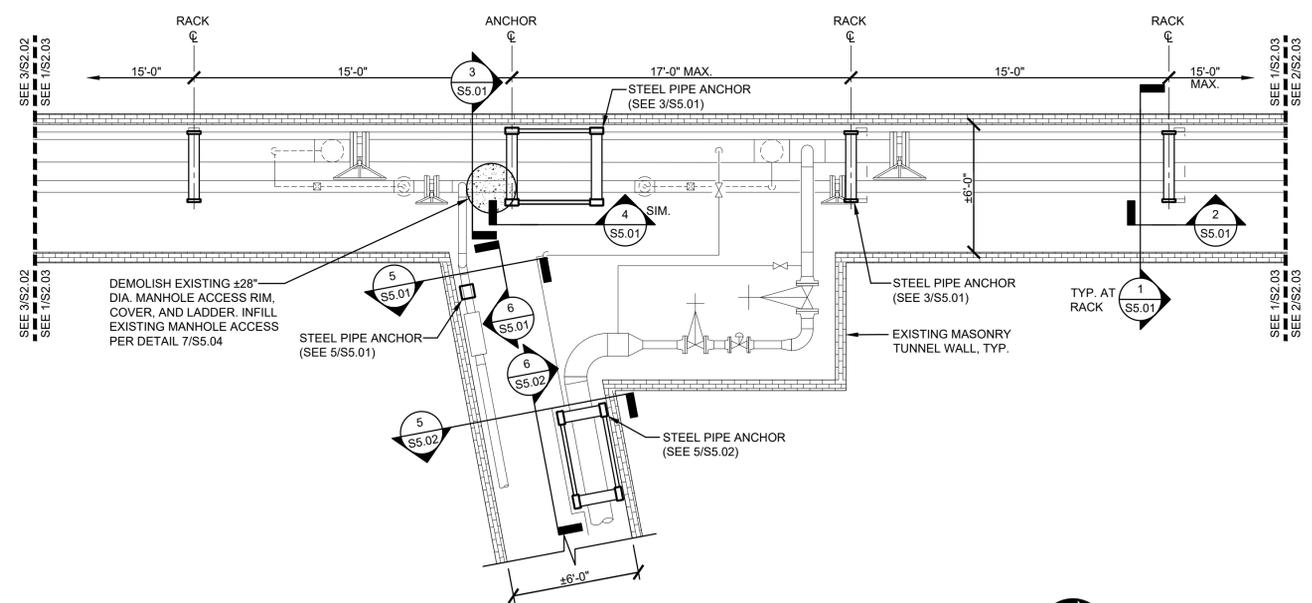
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EAST CAROLINA UNIVERSITY MAIN CAMPUS
REPLACE CONDENSATE BATE TO WRIGHT STEAM TUNNEL
 GREENVILLE, NC 27698

- STRUCTURAL TUNNEL PLAN NOTES:**
- SEE SHEET S0.01 FOR GENERAL STRUCTURAL NOTES.
 - REPAIR ACTIVELY LEAKING CRACKS IN BRICK TUNNEL WALLS PER DETAIL 2/S0.01. FOR BIDDING PURPOSES ASSUME 250 LINEAR FEET OF CRACK REPAIR.
 - CONTRACTOR SHALL DEMOLISH ALL EXISTING UTILITIES. INSTALL NEGATIVE SIDE WATERPROOFING PER SPECIFICATIONS BEFORE INSTALLING NEW PIPING AND SUPPORTS. COORDINATE ALL STEEL SUPPORT RACK LOCATIONS WITH SLIDE/GUIDE/ANCHOR LOCATIONS SHOWN ON THE MECHANICAL PLANS. CARE SHALL BE TAKEN TO AVOID DAMAGE TO NEGATIVE SIDE WATERPROOFING WHILE INSTALLING PIPING.
 - ADDITIVE BID ITEM #2:** COAT INTERIOR OF TUNNEL WALLS WITH NEGATIVE SIDE WATER PROOFING PRIOR TO INSTALLING STEEL RACKS AND ANCHORS.



2 STRUCTURAL TUNNEL PLAN
 SCALE: 1/4" = 1'-0"



1 STRUCTURAL TUNNEL PLAN
 SCALE: 1/4" = 1'-0"

SEAL



KEY PLAN

SCALE

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STRUCTURAL TUNNEL PLAN

SCO ID #: 24-28174-01A
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S2.03

SHEET NO.

SEAL



KEY PLAN

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REVISIONS

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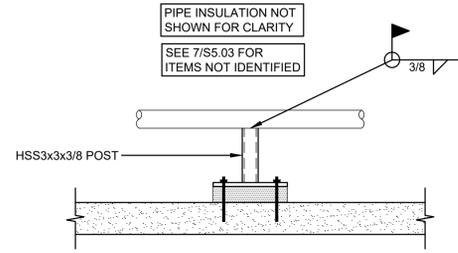
DRAWN BY: SAC
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STRUCTURAL DETAILS

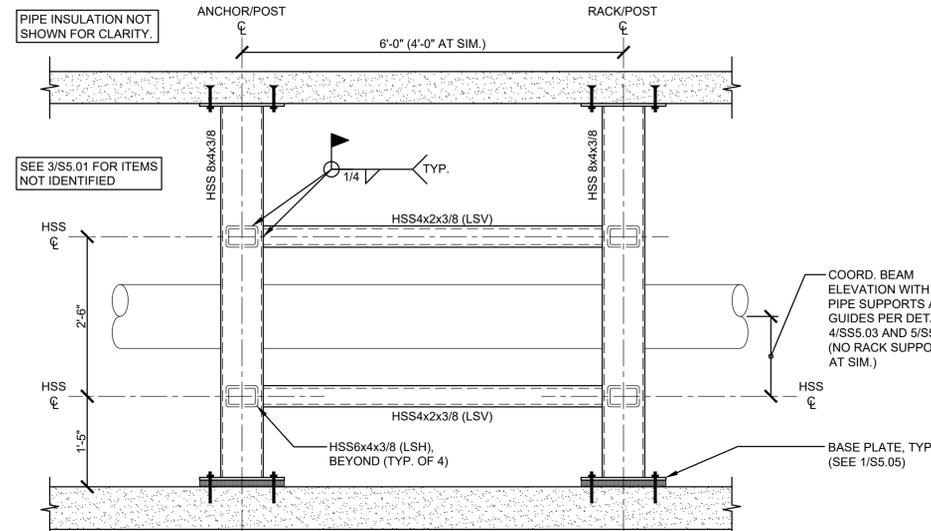
SCO ID #: 24-28174-01A
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S5.01

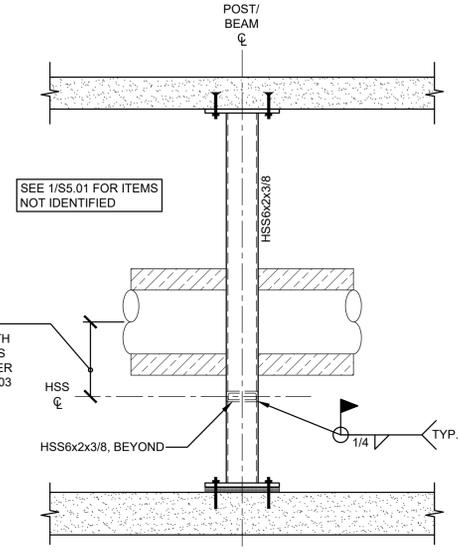
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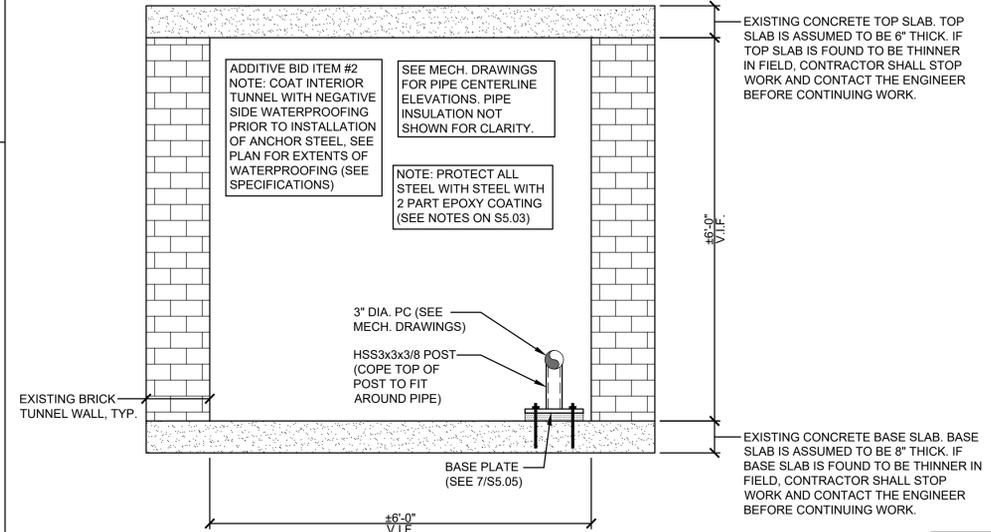
6 TUNNEL ANCHOR ELEVATION
 S5.01 SCALE: 3/4" = 1'-0"



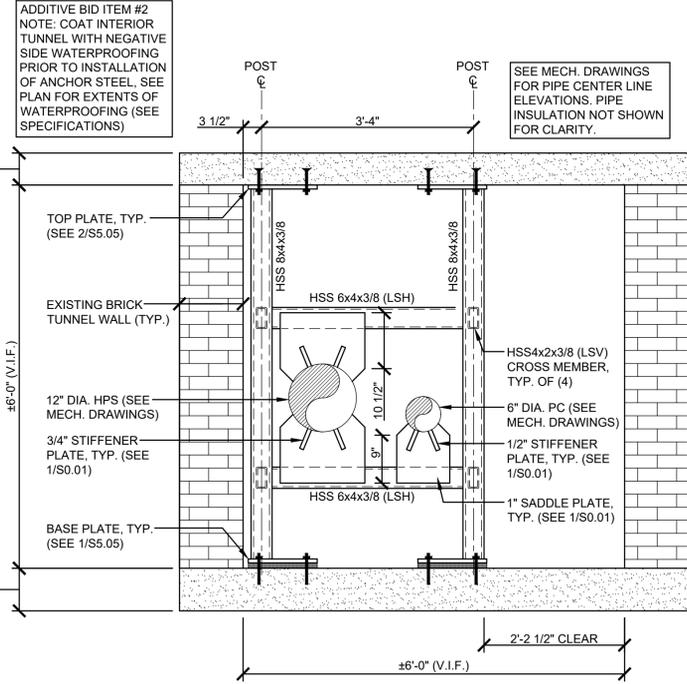
4 TUNNEL ANCHOR ELEVATION
 S5.01 SCALE: 3/4" = 1'-0"



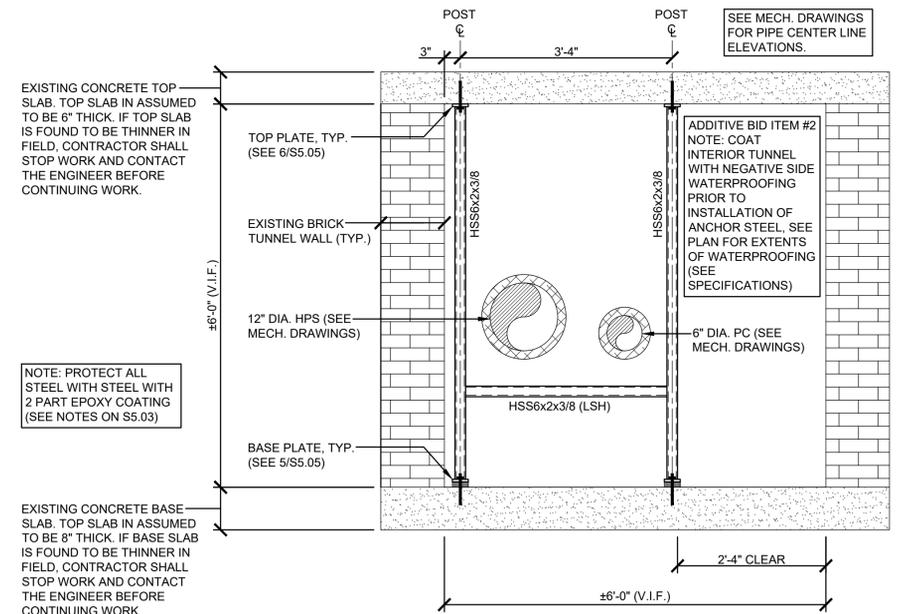
2 TUNNEL RACK ELEVATION
 S5.01 SCALE: 3/4" = 1'-0"



5 TUNNEL ANCHOR SECTION
 S5.01 SCALE: 3/4" = 1'-0"



3 TUNNEL ANCHOR SECTION
 S5.01 SCALE: 3/4" = 1'-0"



1 TUNNEL RACK SECTION
 S5.01 SCALE: 3/4" = 1'-0"

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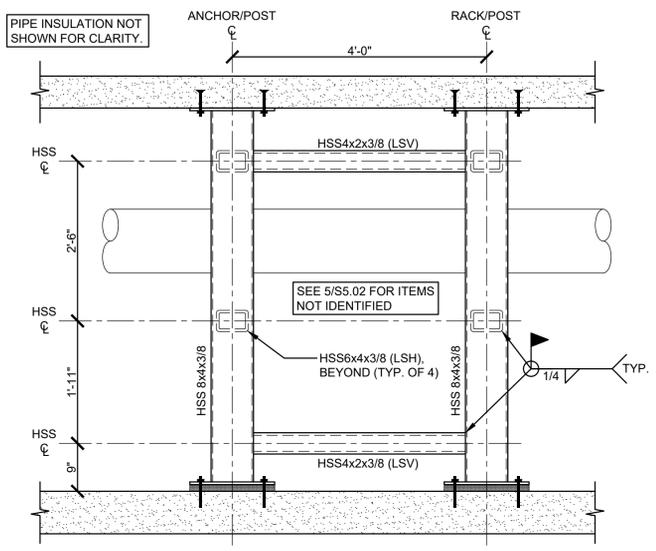
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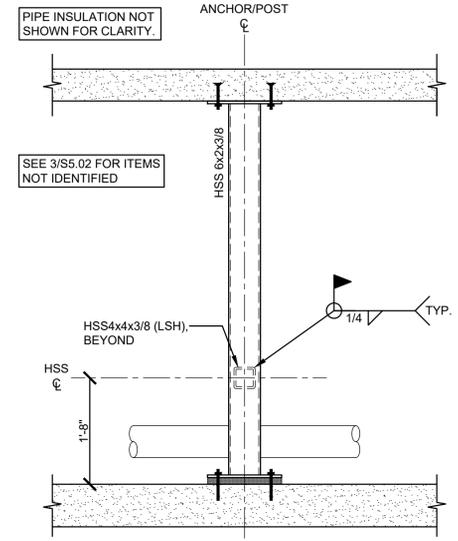
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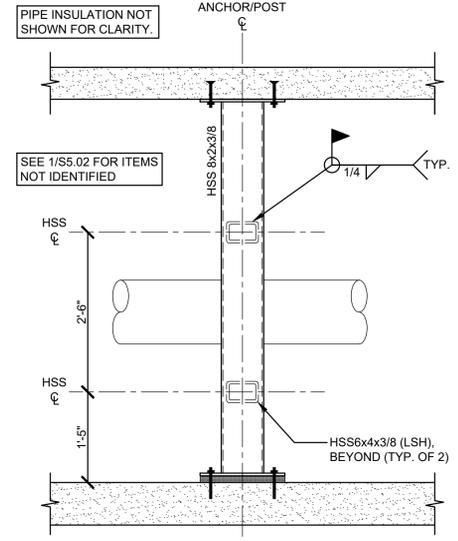
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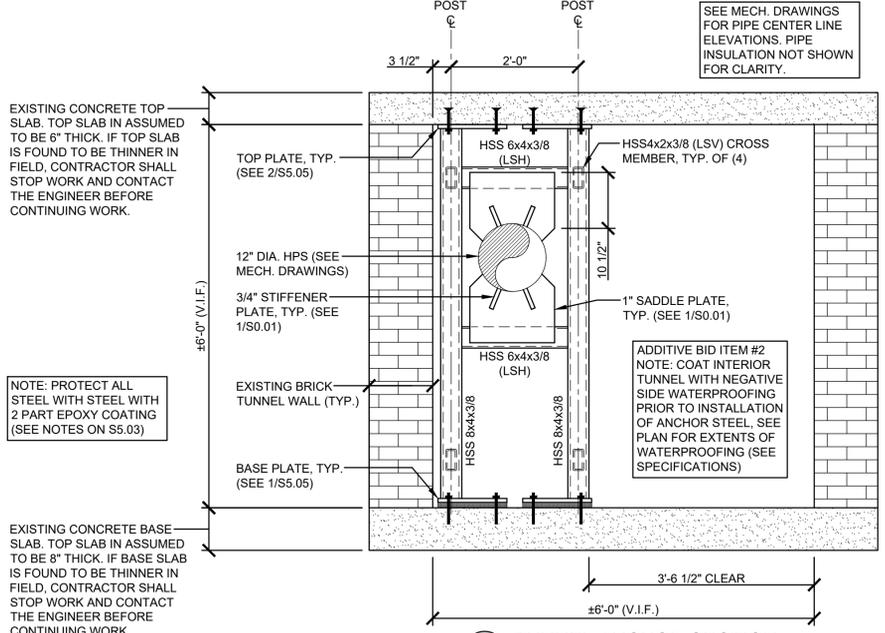
6 TUNNEL ANCHOR ELEVATION
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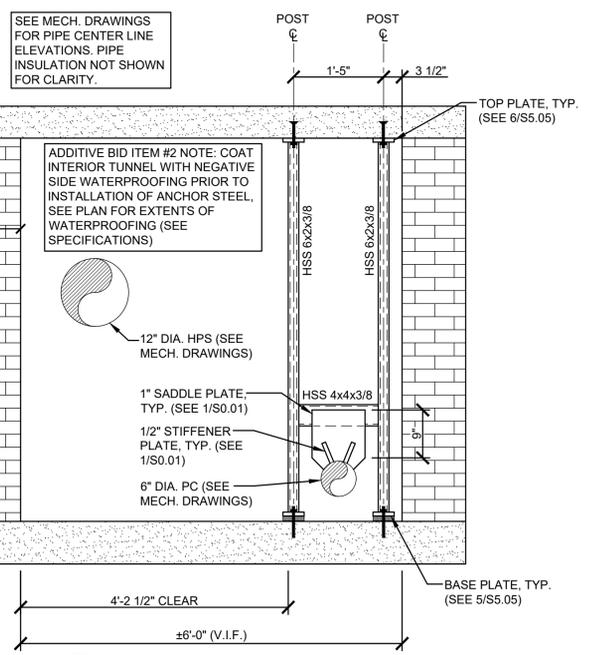
4 TUNNEL ANCHOR ELEVATION
SCALE: 3/4" = 1'-0"



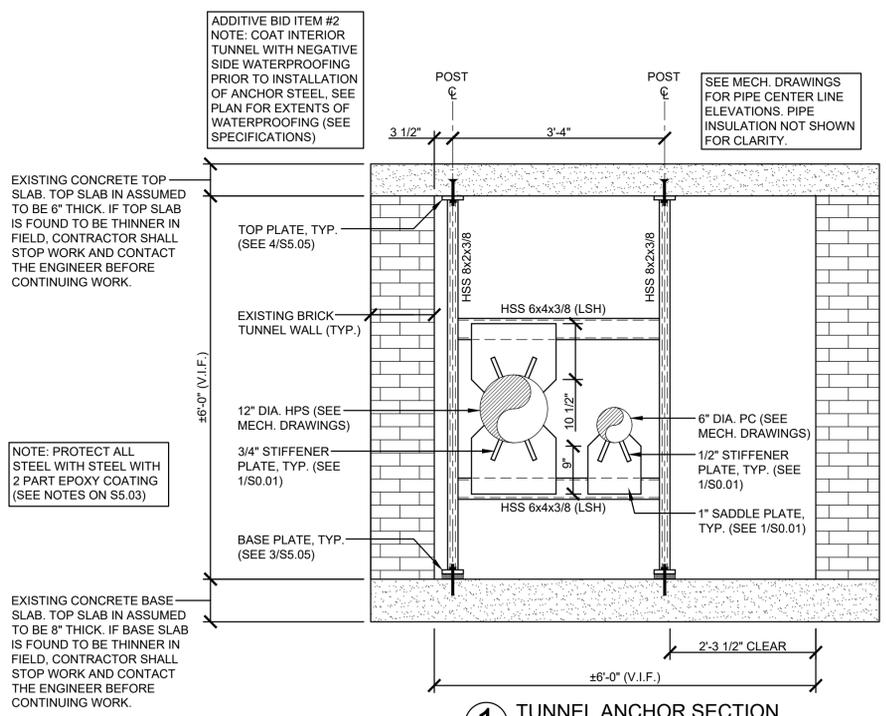
2 TUNNEL ANCHOR ELEVATION
SCALE: 3/4" = 1'-0"



5 TUNNEL ANCHOR SECTION
SCALE: 3/4" = 1'-0"



3 TUNNEL ANCHOR SECTION
SCALE: 3/4" = 1'-0"



1 TUNNEL ANCHOR SECTION
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EAST CAROLINA UNIVERSITY MAIN CAMPUS
REPLACE CONDENSATE BATE TO WRIGHT STEAM TUNNEL
GREENVILLE, NC 27858

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DRAWN BY: SAC
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STRUCTURAL DETAILS

SCO ID #: 24-28174-01A
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S5.02

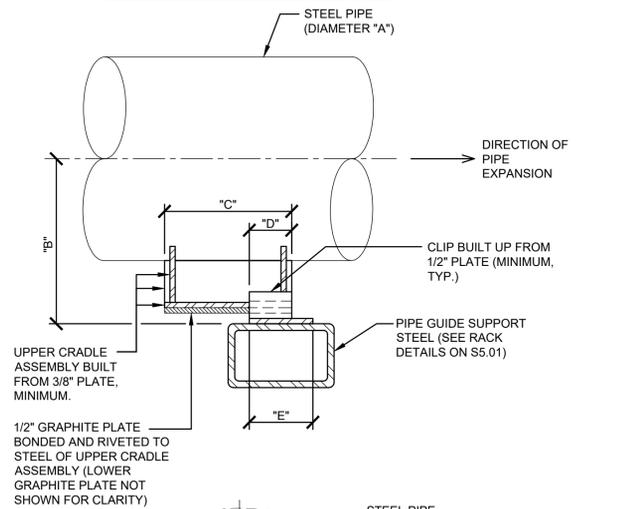
SHEET NO.

GENERAL NOTES FOR PIPE GUIDES, SUPPORTS AND ANCHORS:

- ALL PIPE GUIDES, SUPPORTS, AND ANCHORS SHALL CONFORM TO THE DIMENSIONAL AND MATERIAL REQUIREMENTS SET FORTH IN THE DETAILS.
- ALL BASE PLATES FOR PIPE GUIDES, SUPPORTS, AND ANCHORS SHALL RECEIVE (3) LEVELING TABS PER 2/S5.03, UNLESS NOTED OTHERWISE. SHIMS AND LEVELING NUTS DIRECTLY UNDER BASE PLATES ARE NOT PERMITTED.
- GROUT EDGES SHALL BE FORMED VERTICAL. SEE 3/S5.03 FOR GROUT PROCEDURE.
- INSULATION NOT SHOWN FOR CLARITY. CONTRACTOR SHALL FIELD VERIFY PIPE AND INSULATION SIZE AND LOCATION BEFORE FABRICATION OF PIPE SUPPORT GUIDE.
- ALL STEEL MEMBERS AND FABRICATIONS SHALL BE WELDED TOGETHER WITH CONTINUOUS 1/4 INCH FILLET WELD (MIN).
- GRAPHITE PLATES SHALL HAVE THE FOLLOWING PROPERTIES:
 - 1/2" (MINIMUM) THICKNESS
 - 2000 PSI COMPRESSIVE STRENGTH (MIN)
 - TEMPERATURE RANGE OF AT LEAST -20 TO 750 DEGREES FAHRENHEIT
 - A COEFFICIENT OF STATIC FRICTION LESS THAN OR EQUAL TO 0.15.
 - MINIMUM BEARING AREA AS SPECIFIED IN THE DETAILS (SEE DETAIL 1/S5.20 FOR DEFINITION OF GRAPHITE BEARING AREA)
- ALL STEEL COMPONENTS OF PIPE GUIDES, SUPPORTS, AND ANCHORS SHALL HAVE A MINIMUM THICKNESS OF 3/8-INCH, U.N.O.
- PROTECT PIPE ANCHORS, PIPE GUIDES, PIPE SUPPORTS, AND SUPPORTING STEEL FRAMES WITH SHOP-APPLIED OXIDE PRIMER MEETING THE FOLLOWING REQUIREMENTS:
 - ONE COAT PRIMER AT 2.5-3.5 MILS DFT (DRY FINISH THICKNESS)
 - MEET ASTM 4541 FOR ADHESION WITH NOT LESS THAN 1150 PSI
 - MEET ASTM 4585 FOR HUMIDITY WITH NO MORE THAN 1 PERCENT RUST AFTER 5000 HOURS EXPOSURE.
 - MEET ASTM D 2794 FOR IMPACT WITH NO VISIBLE CRACKING OR DELAMINATION AFTER 160 INCH-POUNDS DIRECT IMPACT.
 - MEET ASTM B117 FOR SALT SPRAY WITH NO MORE THAN 3% RUST OR PLANE, NO MORE THAN 1/64 OF AN INCH CREEP AT SCRIBE AFTER 10,250 HOURS.
 - CLEAN PER SSPC-SP3 POWER TOOL CLEANING AND MEET SLIP CO-EFFICIENT OF 0.056.

- PROVIDE 2-PART POLYAMIDOAMINE EPOXY TOP COAT MEETING THE FOLLOWING REQUIREMENTS ON ALL PIPE ANCHORS, PIPE GUIDES, PIPE SUPPORTS, AND SUPPORTING STEEL FRAMES:
 - COLOR: RED
 - 6.0 (+/- 1.0) MILS DFT PER COAT
 - MEET ASTM 4541 TYPE II FOR ADHESION WITH NOT LESS THAN 1600 PSI PULL, AVERAGE OF 3 TESTS.
 - MEET ASTM 4585 FOR HUMIDITY WITH NO BLISTERING, CRACKING, CHECKING, RUSTING OR DELAMINATION OF FILM AFTER 10,000 HOURS EXPOSURE.
 - MEET ASTM B117 FOR SALT SPRAY WITH NO MORE THAN 1% RUST OR PLANE, NO MORE THAN 1/64 OF AN INCH CREEP AT SCRIBE AFTER 10,000 HOURS.
 - MEET ASTM D 4060 FOR ABRASION WITH NO MORE THAN 180 mg LOSS AFTER 1,000 CYCLES.
 - MEET ASTM D 1014 FOR EXPOSURE WITH NO BLISTERING, CRACKING, CHECKING, RUSTING OR DELAMINATION OF FILM AFTER 5-YEARS EXPOSURE.
 - MEET ASTM D 870 FOR IMMERSION WITH NO BLISTERING, CRACKING, CHECKING, RUSTING OR DELAMINATION OF FILM AFTER 2-YEARS OF CONTINUOUS WATER IMMERSION.
 - MEET ASTM D1653 FOR VAPOR TRANSMISSION WITH NO MORE THAN 9.9 g/m2 IN 24 HOURS (TRANSMISSION) AND NO MORE THAN 0.31 g/SF PER HOUR IN Hg (PERMEABILITY)
- CONTRACTOR SHALL SPOT CLEAN (SP3) AND PAINT (WITH PRIMER COAT AND TOP COAT) ALL METAL EXPOSED DURING CONSTRUCTION DUE TO HANDLING, WELDING, OR IMPACT.
- ALL STEEL SHALL BE SHOP PAINTED WITH FIELD TOUCH UP.
- ALL BASE PLATES SHALL BE PRIMED AND PAINTED PRIOR TO INSTALLATION. ALL STEEL THAT WILL BE INACCESSIBLE AFTER INSTALLATION (SUCH AS STEEL AGAINST WALLS) SHALL BE PRIMED AND PAINTED PRIOR TO INSTALLATION.
- ALL EXISTING STEEL RACKS MODIFIED BY CONSTRUCTION BUT THAT REMAINS SHALL BE CLEANED (SP3), THEN PRIMED AND PAINTED PER NOTES 8 & 9.

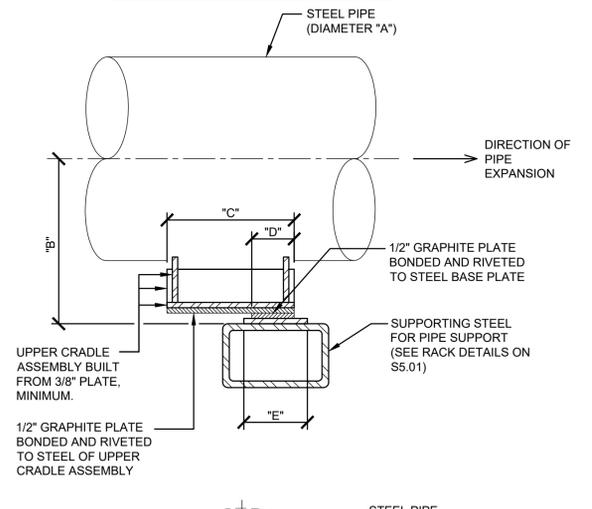
NOTE: INSTALL GUIDE IN COLD POSITION AS SHOWN BELOW TO ALLOW SUPPORT PLATE EXPANSION INTO THE PIPE GUIDE.



A	B	C	D	E	F	G
6" DIA.	9"	12"	4"	5"	10-1/2"	1/2"
12" DIA.	13"	12"	4"	5"	12"	1/2"

5 TYPICAL PIPE GUIDE DETAIL
SCALE: NOT TO SCALE

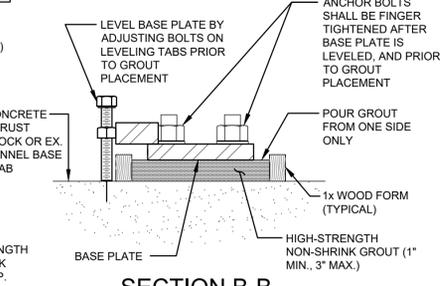
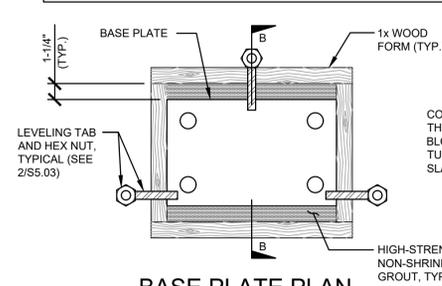
NOTE: INSTALL GUIDE IN COLD POSITION AS SHOWN BELOW TO ALLOW SUPPORT PLATE EXPANSION INTO THE PIPE GUIDE.



A	B	C	D	E	F	G
6" DIA.	9"	12"	4"	5"	12"	1/2"
12" DIA.	13"	12"	4"	5"	13"	1/2"

4 TYPICAL PIPE SUPPORT DETAIL
SCALE: NOT TO SCALE

BASE PLATE SHOWN IS SCHEMATIC. ACTUAL DIMENSIONS VARY.



BASE PLATE PLAN

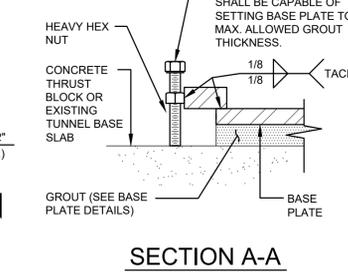
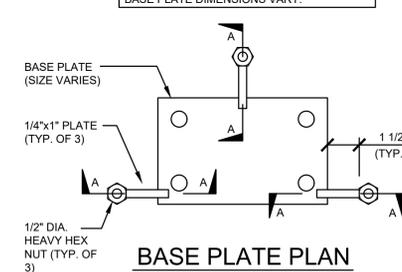
SECTION B-B

GROUT PLACEMENT PROCEDURE:

- LEVEL BASE PLATE BY ADJUSTING BOLTS ON LEVELING TABS, THEN FINGER TIGHTEN ANCHOR BOLTS (SEE DETAIL 2/S5.03).
- FORM EDGES OF BASE PLATE VERTICALLY USING 1x WOOD MATERIAL. (2) OPPOSITE EDGES SHALL BE FLUSH WITH BASE PLATE, AND THE OTHER (2) OPPOSITE EDGES SHALL BE 1-1/4" OFFSET FROM BASE PLATE EDGE. CONTRACTOR SHALL DETERMINE WHICH EDGES TO OFFSET BASED ON FIELD CONDITIONS.
- POUR GROUT INTO FORM FROM ONE OFFSET EDGE ONLY, (VERIFYING FLOW TO OPPOSITE EDGE) UNTIL FLUSH WITH BOTTOM OF BASE PLATE (DO NOT OVER POUR; +1/8" MAX.). MIX AND POUR GROUT IN ACCORDANCE WITH MFR'S RECOMMENDATIONS.
- REMOVE WOOD FORMS AFTER TIME PERIOD RECOMMENDED BY GROUT MANUFACTURER (1 DAY MINIMUM).
- TENSION ANCHOR BOLTS IN ACCORDANCE WITH THE SPECIFICATIONS, AFTER TIME PERIOD RECOMMENDED BY GROUT MANUFACTURER.
- REMOVE LEVELING TABS AFTER ANCHOR BOLTS HAVE BEEN TENSIONED, AND PROTECT EXPOSED STEEL WITH PRIMER AND EPOXY TOP COAT PER NOTES ON SHEET S5.03.
- CONTRACTOR SHALL NOTIFY ENGINEER OF RECORD IMMEDIATELY AND WAIT FOR DIRECTION, SHOULD GROUT PLACEMENT PROCEDURE CONFLICT WITH GROUT MANUFACTURER'S RECOMMENDATIONS.
- LEVELING TABS ARE NOT INTENDED TO SUPPORT WEIGHT OF PIPING. CONTRACTOR SHALL SHORE PIPES AND ANCHOR RACKS IN ADDITION TO USING LEVELING TABS.

3 BASE PLATE GROUTING PROCEDURE
SCALE: NOT TO SCALE

BASE PLATE SHOWN IS SCHEMATIC. ACTUAL BASE PLATE DIMENSIONS VARY.



BASE PLATE PLAN

SECTION A-A

LEVELING TAB NOTES:

- LEVELING TABS ARE NOT INTENDED TO SUPPORT WEIGHT OF PIPING. CONTRACTOR SHALL SHORE PIPES AND ANCHOR RACKS IN ADDITION TO USING LEVELING TABS.
- PROVIDE (3) LEVELING TABS FOR EACH BASE PLATE, IN A TRI-POD PATTERN, AS SHOWN. AFTER BASE PLATE HAS BEEN FULLY GROUTED AND ALLOWED TO CURE FOR A MINIMUM OF 3 DAYS, CONTRACTOR SHALL REMOVE LEVELING TABS AND PROTECT EXPOSED STEEL WITH PRIMER AND EPOXY TOP COAT PER NOTES ON SHEET S5.03.

2 BASE PLATE LEVELING TAB DETAIL
SCALE: NOT TO SCALE

PIPE DIA.	GRAPHITE BEARING AREA (SQ. INCHES)
2" DIA.	9 (MIN.)
6" DIA.	20 (MIN.)
12" DIA.	24 (MIN.)



1 GRAPHITE BEARING AREA DETAIL
SCALE: NOT TO SCALE

SEAL



KEY PLAN

SCALE

REVISIONS

NO.	DESCRIPTION	DATE

DRAWN BY: SAC

APPROVED BY: ARP

CHECKED BY: EAS

DATE: JANUARY 9, 2026

TITLE

STRUCTURAL DETAILS

SCO ID #: 24-28174-01A

ECU PROJECT #: AIM CP# 2097

DEI PROJECT #: 50183387

S5.03

SHEET NO.

SEAL



KEY PLAN

SCALE

REVISIONS

NO.	DESCRIPTION	DATE

DRAWN BY: SAC

APPROVED BY: ARP

CHECKED BY: EAS

DATE: JANUARY 9, 2026

TITLE

STRUCTURAL DETAILS

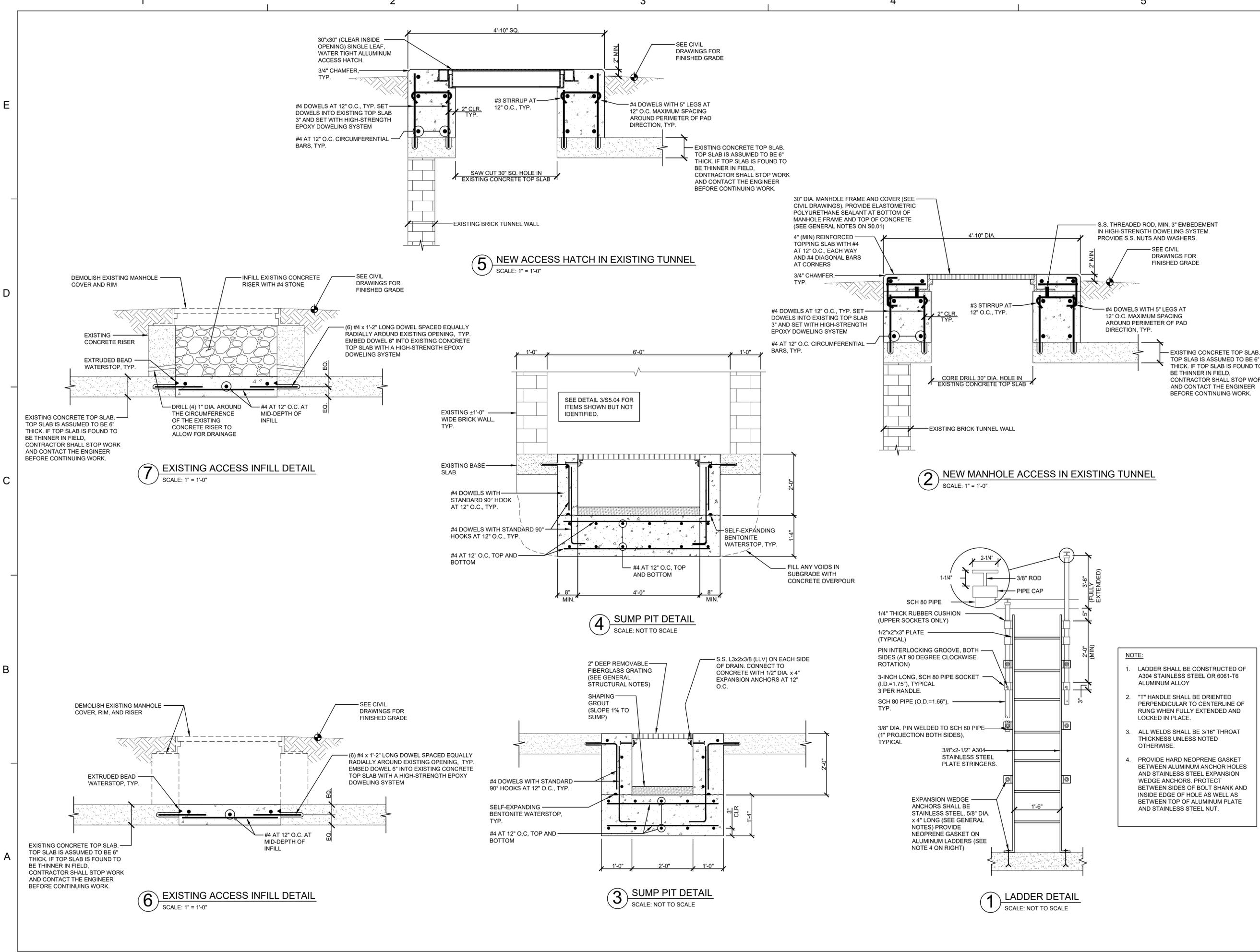
SCO ID #: 24-28174-01A

ECU PROJECT #: AIM CP# 2097

DEI PROJECT #: 50183387

S5.04

SHEET NO.



NOTE:

- LADDER SHALL BE CONSTRUCTED OF A304 STAINLESS STEEL OR 6061-T6 ALUMINUM ALLOY
- "T" HANDLE SHALL BE ORIENTED PERPENDICULAR TO CENTERLINE OF RUNG WHEN FULLY EXTENDED AND LOCKED IN PLACE.
- ALL WELDS SHALL BE 3/16" THROAT THICKNESS UNLESS NOTED OTHERWISE.
- PROVIDE HARD NEOPRENE GASKET BETWEEN ALUMINUM ANCHOR HOLES AND STAINLESS STEEL EXPANSION WEDGE ANCHORS. PROTECT BETWEEN SIDES OF BOLT SHANK AND INSIDE EDGE OF HOLE AS WELL AS BETWEEN TOP OF ALUMINUM PLATE AND STAINLESS STEEL NUT.

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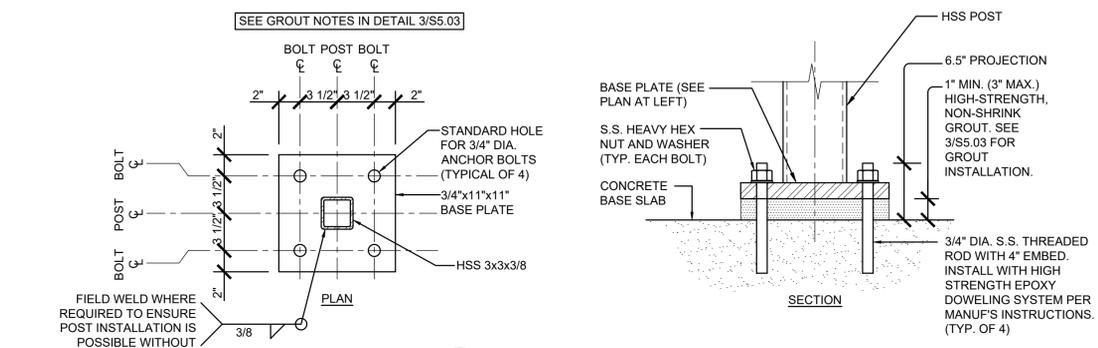
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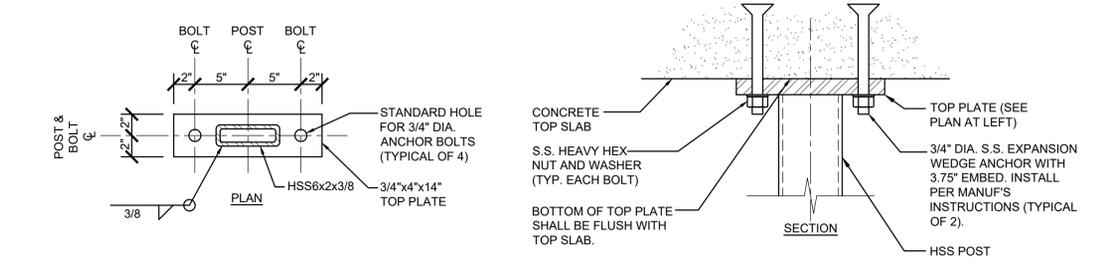
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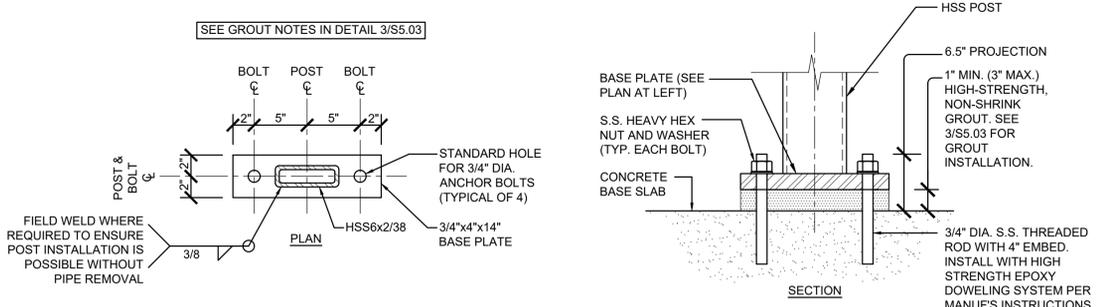
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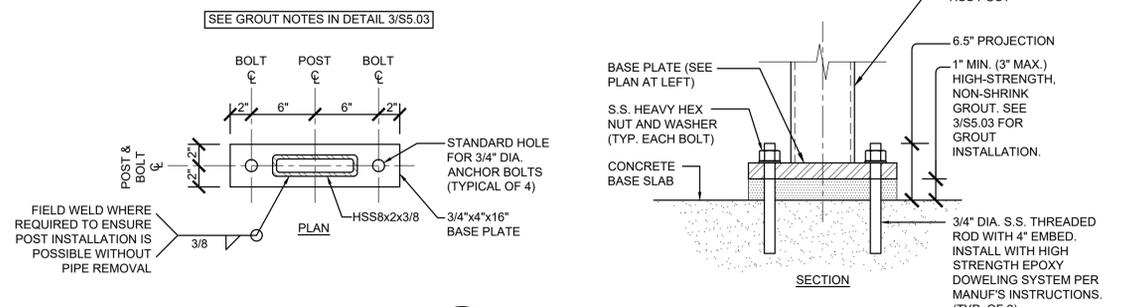
7 BASE PLATE DETAIL
S5.05 SCALE: 1-1/2" = 1'-0"



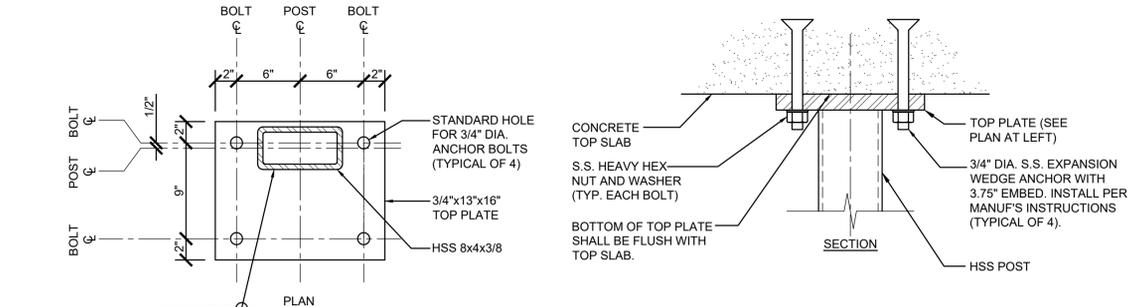
6 TOP PLATE DETAIL
S5.05 SCALE: 1-1/2" = 1'-0"



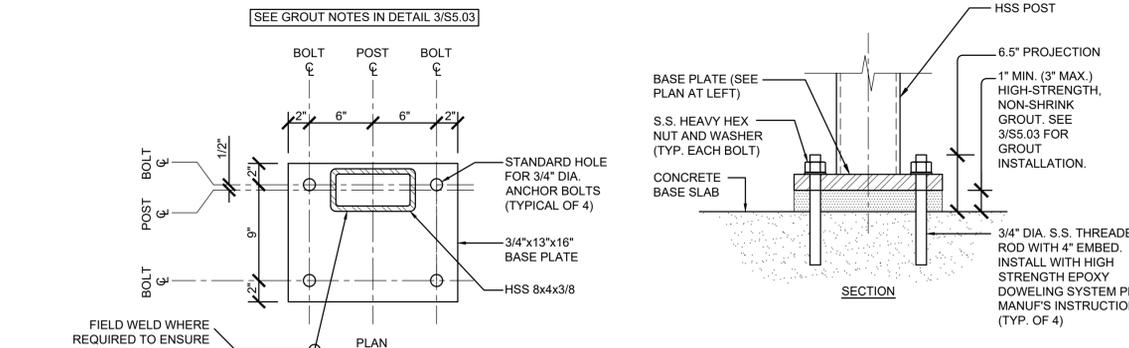
5 BASE PLATE DETAIL
S5.05 SCALE: 1-1/2" = 1'-0"



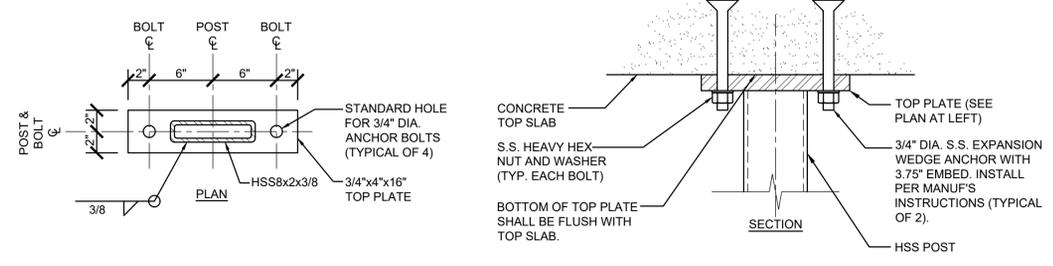
3 BASE PLATE DETAIL
S5.05 SCALE: 1-1/2" = 1'-0"



2 TOP PLATE DETAIL
S5.05 SCALE: 1-1/2" = 1'-0"

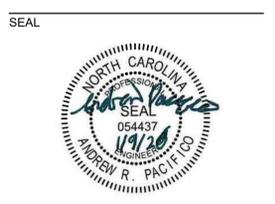


1 BASE PLATE DETAIL
S5.05 SCALE: 1-1/2" = 1'-0"



4 TOP PLATE DETAIL
S5.05 SCALE: 1-1/2" = 1'-0"

EAST CAROLINA UNIVERSITY
 MAIN CAMPUS
 REPLACE CONDENSATE BATE TO WRIGHT STEAM TUNNEL
 GREENVILLE, NC 27858



KEY PLAN

SCALE

REVISIONS

NO.	DESCRIPTION	DATE

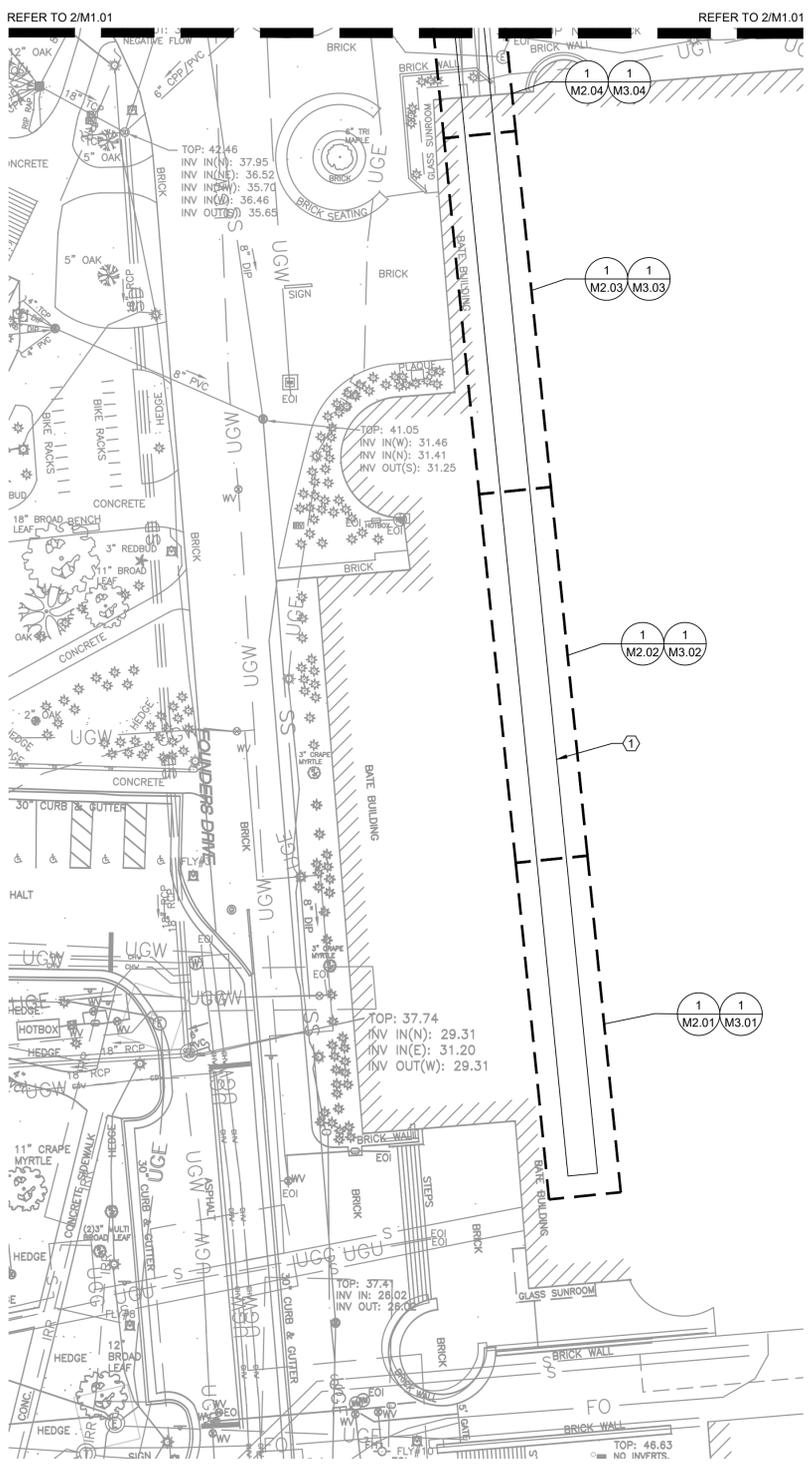
DRAWN BY: SAC
 APPROVED BY: ARP
 CHECKED BY: EAS
 DATE: JANUARY 9, 2026
 TITLE

STRUCTURAL PLATE DETAILS

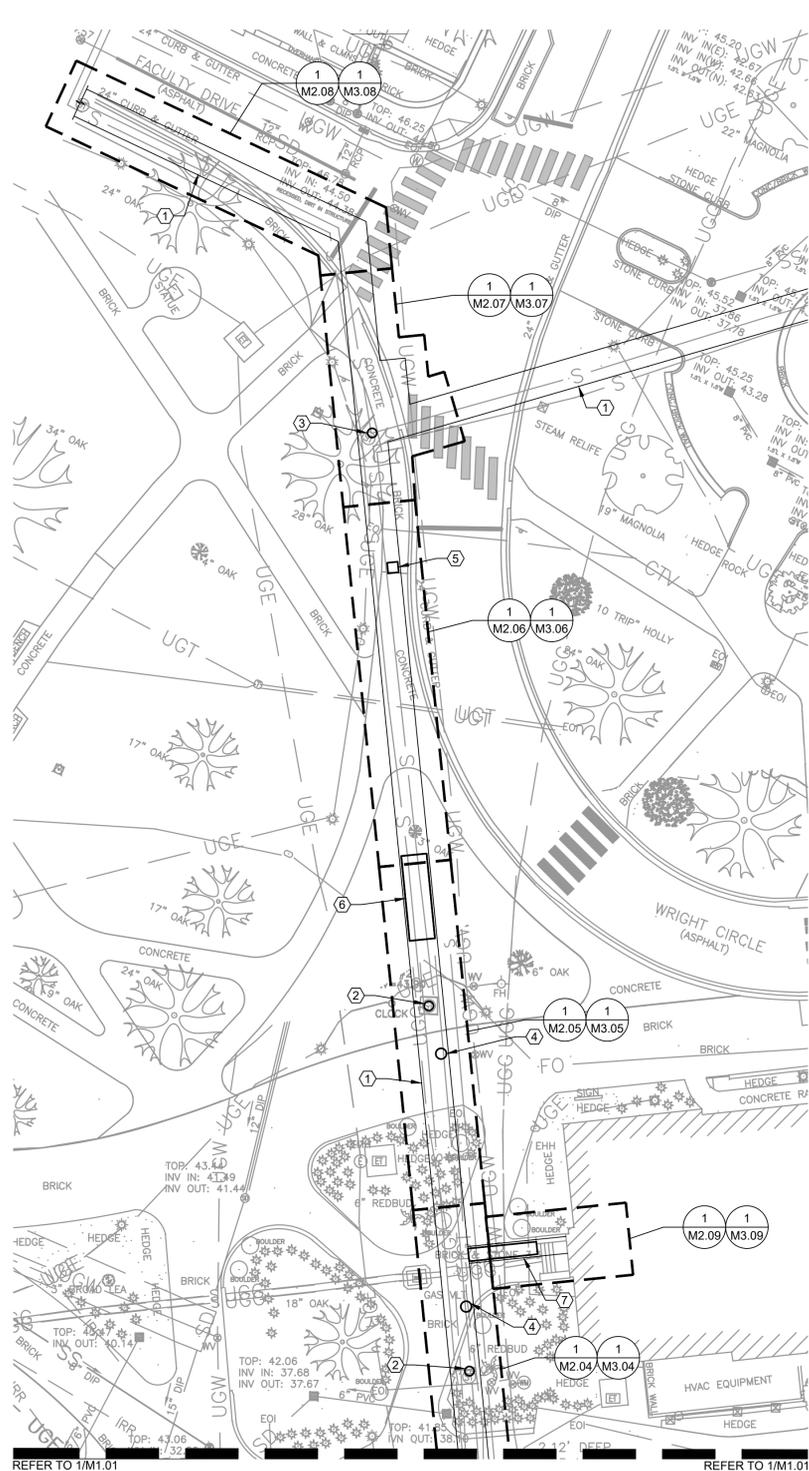
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 ECU PROJECT #: AIM CP# 2097
 DEI PROJECT #: 50183387

S5.05

SHEET NO.



1 MECHANICAL SITE PLAN
SCALE: 1" = 20'-0"
NORTH

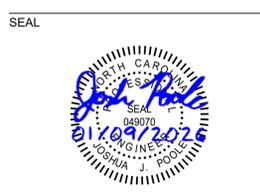


2 MECHANICAL SITE PLAN
SCALE: 1" = 20'-0"
NORTH

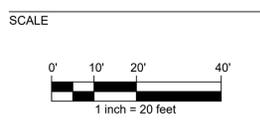
KEYED NOTES INDICATED BY ①:

- EXISTING TUNNEL WITH INSIDE CLEAR DIMENSIONS OF 6'-0" WIDE x 6'-0" TALL TO REMAIN.
- DEMOLISH EXISTING ACCESS, RISER, AND LADDER. REFER TO STRUCTURAL PLANS FOR TOP SLAB REPAIR DETAILS. REFER TO CIVIL PLANS FOR SITE RESTORATION DETAILS.
- DEMOLISH EXISTING ACCESS RIM, COVER, AND LADDER. SEAL AND INFILL EXISTING RISER. CONTRACTOR SHALL PERFORM WORK WITH EXTREME CAUTION IN ORDER TO AVOID DAMAGING OR DISTURBING NEARBY TREE. REFER TO STRUCTURAL PLANS FOR ACCESS INFILL DETAILS. REFER TO CIVIL PLANS FOR SITE RESTORATION DETAILS.
- PROVIDE 30" TUNNEL ACCESS WITH LADDER. REFER TO STRUCTURAL PLANS AND SPECIFICATIONS FOR DETAILS AND REQUIREMENTS ASSOCIATED WITH THE RISER AND LADDER. REFER TO CIVIL PLANS AND SPECIFICATIONS FOR DETAILS AND REQUIREMENTS ASSOCIATED WITH THE LID AND RIM ELEVATION.
- PROVIDE 30"x30" ACCESS WITH LADDER. REFER TO STRUCTURAL PLANS AND SPECIFICATIONS FOR DETAILS AND REQUIREMENTS ASSOCIATED WITH THE RISER AND LADDER. REFER TO CIVIL PLANS AND SPECIFICATIONS FOR DETAILS AND REQUIREMENTS ASSOCIATED WITH THE LID AND RIM ELEVATION.
- 20' SECTION OF TUNNEL TOP REMOVAL FOR ACCESS. REFER TO STRUCTURAL PLANS.
- EXISTING BOX CONDUIT TO REMAIN. IN ORDER TO PROVIDE ACCESS IN BOX CONDUIT TO REPLACE PIPING, REMOVE AND REPLACE BOX CONDUIT TOP SLAB FROM TUNNEL TO JUST UPSTREAM OF GRAHAM STAIRS. REFER TO STRUCTURAL PLANS FOR TOP SLAB REPLACEMENT DETAILS.

EAST CAROLINA UNIVERSITY MAIN CAMPUS
REPLACE CONDENSATE BATE TO WRIGHT STEAM TUNNEL
GREENVILLE, NC 27858



KEY PLAN



REVISIONS

NO.	DESCRIPTION	DATE

DRAWN BY: TJH
APPROVED BY: JJP
CHECKED BY: JMT
DATE: JANUARY 9, 2026

MECHANICAL SITE PLAN

SCO ID #: 24-28174-01A
ECU PROJECT #: AIM CP# 2097
DEI PROJECT #: 50183387

M1.01

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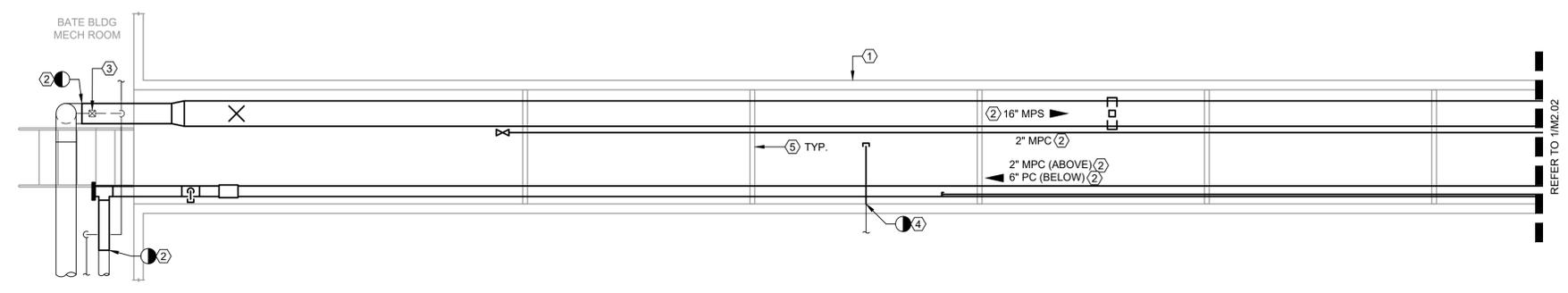
GENERAL NOTES:

1. IN ALL AREAS SHOWN, DEMOLISH ALL ABANDONED UTILITIES, SUPPORTS, EQUIPMENT, WIRES, CONDUIT, ETC.
2. CONTRACTOR SHALL WASH DOWN TUNNEL TO CLEAN OUT MUD AND DEBRIS. CONTRACTOR SHALL BE RESPONSIBLE FOR CAPTURING AND DISPOSING OF WATER.

KEYED NOTES INDICATED BY (#) :

1. EXISTING TUNNEL WITH INSIDE CLEAR DIMENSIONS OF 6'-0" WIDE X 6'-0" TALL TO REMAIN.
2. DEMOLISH ALL EXISTING MPS, MPC, AND PC PIPING AND ALL ASSOCIATED FITTINGS, VALVES, SPECIALTIES, SUPPORTS, ANCHORS, AND APPURTENANCES FROM POINTS SHOWN IN BATE BUILDING MECHANICAL ROOM TO POINTS SHOWN IN TUNNEL.
3. RELOCATE EXISTING TRAP STATION AS REQUIRED TO ALLOW FOR INSTALLATION OF NEW WORK.
4. DEMOLISH EXISTING ABANDONED UTILITY TO WALL AND CAP.
5. EXISTING CROSS BEAM TO REMAIN.

EAST CAROLINA UNIVERSITY MAIN CAMPUS
 REPLACE CONDENSATE BATE TO WRIGHT STEAM TUNNEL
 GREENVILLE, NC 27698



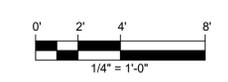
1 MECHANICAL TUNNEL DEMOLITION PLAN
 SCALE: 1/4" = 1'-0"

SEAL



KEY PLAN

SCALE



REVISIONS

NO.	DESCRIPTION	DATE

DRAWN BY: TJH
 APPROVED BY: JJP
 CHECKED BY: JMT
 DATE: JANUARY 9, 2026

TITLE
MECHANICAL TUNNEL DEMOLITION PLAN
 SCO ID #: 24-28174-01A
 ECU PROJECT #: AIM CP# 2097
 DEI PROJECT #: 50183387

M2.01

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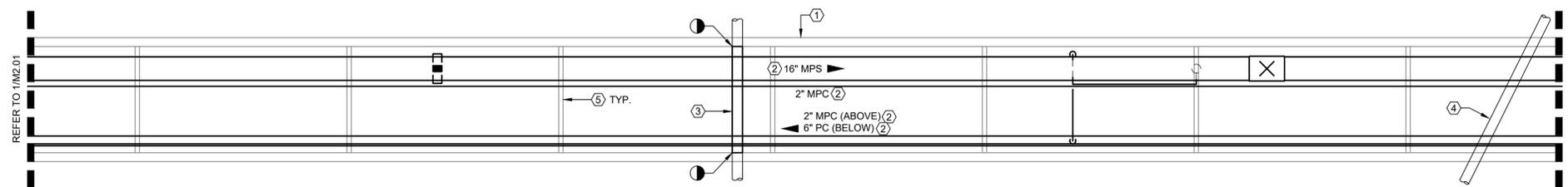
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1 MECHANICAL TUNNEL DEMOLITION PLAN
 SCALE: 1/4" = 1'-0" 

GENERAL NOTES:

1. IN ALL AREAS SHOWN, DEMOLISH ALL ABANDONED UTILITIES, SUPPORTS, EQUIPMENT, WIRES, CONDUIT, ETC.
2. CONTRACTOR SHALL WASH DOWN TUNNEL TO CLEAN OUT MUD AND DEBRIS. CONTRACTOR SHALL BE RESPONSIBLE FOR CAPTURING AND DISPOSING OF WATER.

KEYED NOTES INDICATED BY (#) :

1. EXISTING TUNNEL WITH INSIDE CLEAR DIMENSIONS OF 6'-0" WIDE X 6'-0" TALL TO REMAIN.
2. DEMOLISH ALL EXISTING MPS, MPC, AND PC PIPING AND ALL ASSOCIATED FITTINGS, VALVES, SPECIALTIES, SUPPORTS, ANCHORS, AND APPURTENANCES FROM POINTS SHOWN IN BATE BUILDING MECHANICAL ROOM TO POINTS SHOWN IN TUNNEL.
3. DEMOLISH ABANDONED WATER LINE CROSSING TO WALLS AND CAP.
4. EXISTING UTILITY CROSSING TO REMAIN.
5. EXISTING CROSS BEAM TO REMAIN.



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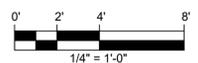
EAST CAROLINA UNIVERSITY MAIN CAMPUS
 REPLACE CONDENSATE BATE TO WRIGHT STEAM TUNNEL
 GREENVILLE, NC 27695

SEAL



KEY PLAN

SCALE



REVISIONS

NO.	DESCRIPTION	DATE

DRAWN BY: TJH

APPROVED BY: JJP

CHECKED BY: JMT

DATE: JANUARY 9, 2026

TITLE

MECHANICAL TUNNEL DEMOLITION PLAN

SCO ID #: 24-28174-01A

ECU PROJECT #: AIM CP# 2097

DEI PROJECT #: 50183387

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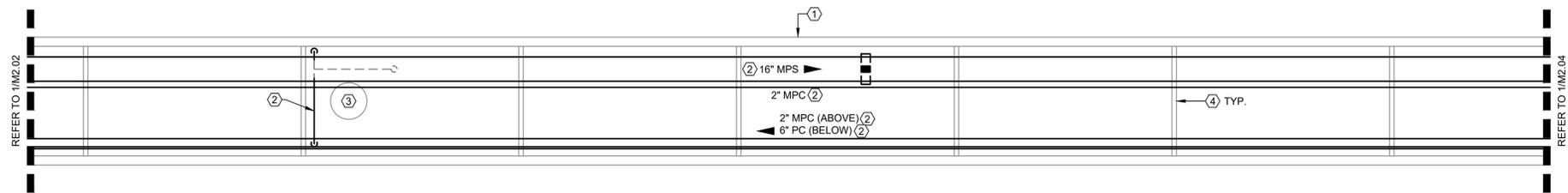
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1 MECHANICAL TUNNEL DEMOLITION PLAN
 SCALE: 1/4" = 1'-0"

GENERAL NOTES:

1. IN ALL AREAS SHOWN, DEMOLISH ALL ABANDONED UTILITIES, SUPPORTS, EQUIPMENT, WIRES, CONDUIT, ETC.
2. CONTRACTOR SHALL WASH DOWN TUNNEL TO CLEAN OUT MUD AND DEBRIS. CONTRACTOR SHALL BE RESPONSIBLE FOR CAPTURING AND DISPOSING OF WATER.

KEYED NOTES INDICATED BY (#) :

1. EXISTING TUNNEL WITH INSIDE CLEAR DIMENSIONS OF 6'-0" WIDE X 6'-0" TALL TO REMAIN.
2. DEMOLISH ALL EXISTING MPS, MPC, AND PC PIPING AND ALL ASSOCIATED FITTINGS, VALVES, SPECIALTIES, SUPPORTS, ANCHORS, AND APPURTENANCES FROM POINTS SHOWN IN BATE BUILDING MECHANICAL ROOM TO POINTS SHOWN IN TUNNEL.
3. EXISTING 22" ACCESS TO REMAIN.
4. EXISTING CROSS BEAM TO REMAIN.



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 REPLACE CONDENSATE BATE TO WRIGHT STEAM TUNNEL
 GREENVILLE, NC 27858

SEAL



KEY PLAN

SCALE



REVISIONS

NO.	DESCRIPTION	DATE

DRAWN BY: TJH

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TITLE

MECHANICAL TUNNEL DEMOLITION PLAN

SCO ID #: 24-28174-01A

ECU PROJECT #: AIM CP# 2097

DEI PROJECT #: 50183387

M2.03

SHEET NO.

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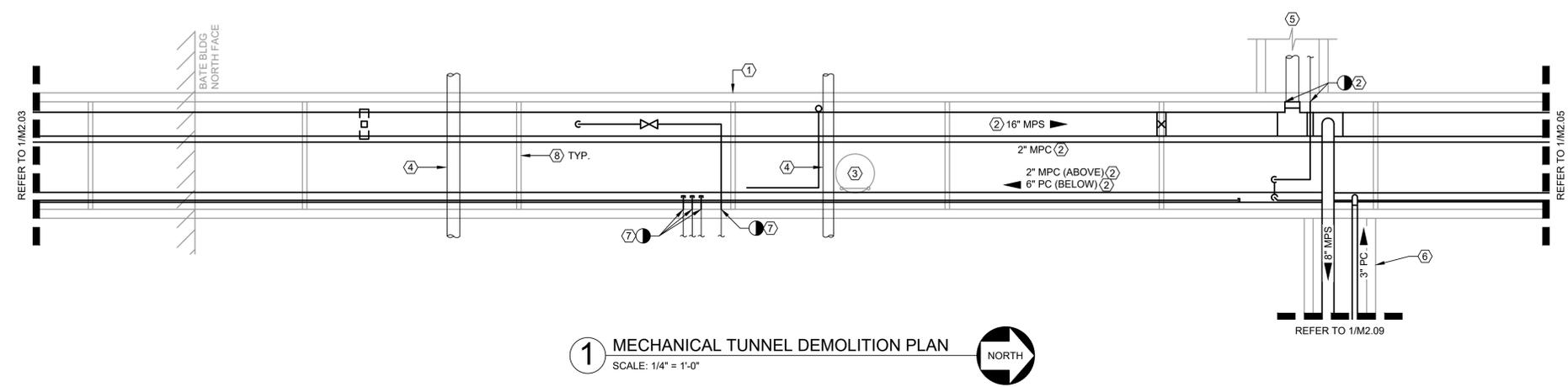
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GENERAL NOTES:

1. IN ALL AREAS SHOWN, DEMOLISH ALL ABANDONED UTILITIES, SUPPORTS, EQUIPMENT, WIRES, CONDUIT, ETC.
2. CONTRACTOR SHALL WASH DOWN TUNNEL TO CLEAN OUT MUD AND DEBRIS. CONTRACTOR SHALL BE RESPONSIBLE FOR CAPTURING AND DISPOSING OF WATER.

KEYED NOTES INDICATED BY (#) :

1. EXISTING TUNNEL WITH INSIDE CLEAR DIMENSIONS OF 6'-0" WIDE X 6'-0" TALL TO REMAIN.
2. DEMOLISH ALL EXISTING MPS, MPC, AND PC PIPING AND ALL ASSOCIATED FITTINGS, VALVES, SPECIALTIES, SUPPORTS, ANCHORS, AND APPURTENANCES FROM POINTS SHOWN IN BATE BUILDING MECHANICAL ROOM TO POINTS SHOWN IN TUNNEL.
3. DEMOLISH EXISTING 26" ACCESS RIM, COVER, AND LADDER. SEAL AND INFILL EXISTING RISER. REFER TO STRUCTURAL PLANS FOR ACCESS INFILL DETAILS. REFER TO CIVIL PLANS FOR SITE RESTORATION DETAILS.
4. EXISTING UTILITY CROSSING TO REMAIN.
5. EXISTING 8" HPS AND 2-1/2" PC ROUTED IN A BOX CONDUIT TUNNEL TOWARD FLANAGAN BUILDING TO REMAIN.
6. EXISTING BOX CONDUIT TO REMAIN. IN ORDER TO PROVIDE ACCESS IN BOX CONDUIT TO REPLACE PIPING, REMOVE AND REPLACE BOX CONDUIT TOP SLAB FROM TUNNEL TO JUST UPSTREAM OF GRAHAM STAIRS. REFER TO STRUCTURAL PLANS FOR TOP SLAB REPLACEMENT DETAILS.
7. DEMOLISH EXISTING ABANDONED UTILITIES TO WALL AND CAP.
8. EXISTING CROSS BEAM TO REMAIN.



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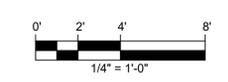
EAST CAROLINA UNIVERSITY MAIN CAMPUS
 REPLACE CONDENSATE BATE TO WRIGHT STEAM TUNNEL
 GREENVILLE, NC 27698

SEAL



KEY PLAN

SCALE



REVISIONS

NO.	DESCRIPTION	DATE

DRAWN BY: TJH
 APPROVED BY: JJP
 CHECKED BY: JMT
 DATE: JANUARY 9, 2026

TITLE
MECHANICAL TUNNEL DEMOLITION PLAN

SCO ID #: 24-28174-01A
 ECU PROJECT #: AIM CP# 2097
 DEI PROJECT #: 50183387

M2.04

SHEET NO.

1

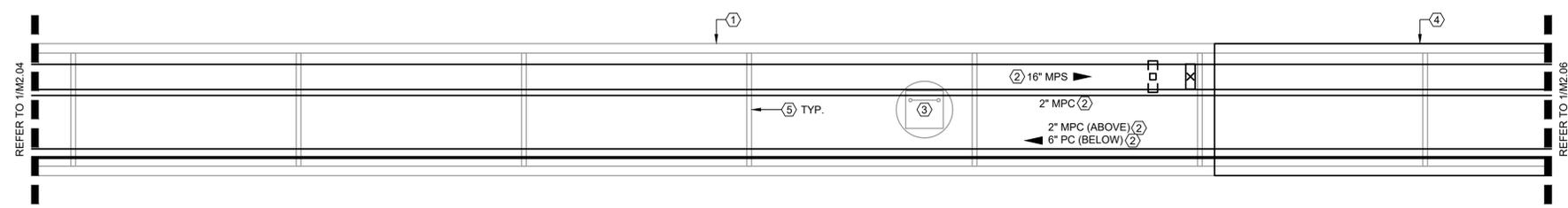
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1 MECHANICAL TUNNEL DEMOLITION PLAN
 SCALE: 1/4" = 1'-0"
 NORTH

GENERAL NOTES:

1. IN ALL AREAS SHOWN, DEMOLISH ALL ABANDONED UTILITIES, SUPPORTS, EQUIPMENT, WIRES, CONDUIT, ETC.
2. CONTRACTOR SHALL WASH DOWN TUNNEL TO CLEAN OUT MUD AND DEBRIS. CONTRACTOR SHALL BE RESPONSIBLE FOR CAPTURING AND DISPOSING OF WATER.

KEYED NOTES INDICATED BY (#) :

1. EXISTING TUNNEL WITH INSIDE CLEAR DIMENSIONS OF 6'-0" WIDE X 6'-0" TALL TO REMAIN.
2. DEMOLISH ALL EXISTING MPS, MPC, AND PC PIPING AND ALL ASSOCIATED FITTINGS, VALVES, SPECIALTIES, SUPPORTS, ANCHORS, AND APPURTENANCES FROM POINTS SHOWN IN BATE BUILDING MECHANICAL ROOM TO POINTS SHOWN IN TUNNEL.
3. DEMOLISH EXISTING 36" ACCESS, 24" x 24" RISER, AND ASSOCIATED LADDER. REFER TO STRUCTURAL PLANS FOR TOP SLAB REPAIR DETAILS. REFER TO CIVIL PLANS FOR SITE RESTORATION DETAILS.
4. 20' SECTION OF TUNNEL TOP SLAB REMOVAL FOR ACCESS. REFER TO STRUCTURAL PLANS FOR TOP SLAB REPAIR DETAILS. REFER TO CIVIL PLANS FOR SITE RESTORATION DETAILS.
5. EXISTING CROSS BEAM TO REMAIN.



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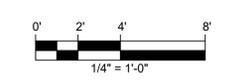
EAST CAROLINA UNIVERSITY MAIN CAMPUS
 REPLACE CONDENSATE BATE TO WRIGHT STEAM TUNNEL
 GREENVILLE, NC 27698

SEAL



KEY PLAN

SCALE



REVISIONS

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DRAWN BY: TJH

APPROVED BY: JJP

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DATE: JANUARY 9, 2026

TITLE

MECHANICAL TUNNEL DEMOLITION PLAN

SCO ID #: 24-28174-01A

ECU PROJECT #: AIM CP# 2097

DEI PROJECT #: 50183387

M2.05

SHEET NO.

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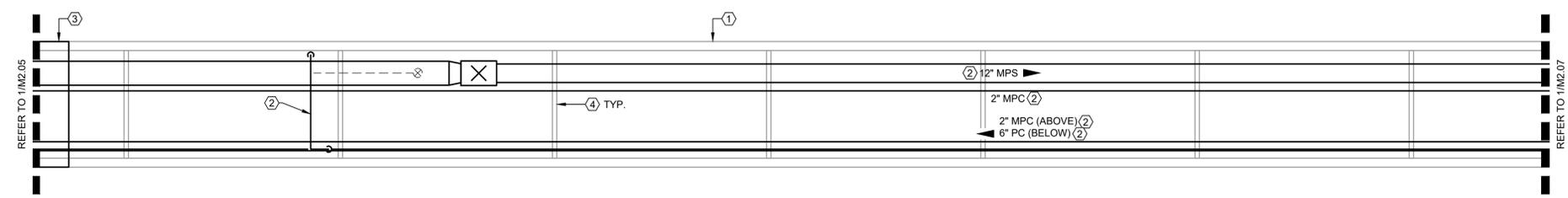
GENERAL NOTES:

1. IN ALL AREAS SHOWN, DEMOLISH ALL ABANDONED UTILITIES, SUPPORTS, EQUIPMENT, WIRES, CONDUIT, ETC.
2. CONTRACTOR SHALL WASH DOWN TUNNEL TO CLEAN OUT MUD AND DEBRIS. CONTRACTOR SHALL BE RESPONSIBLE FOR CAPTURING AND DISPOSING OF WATER.

KEYED NOTES INDICATED BY (#) :

1. EXISTING TUNNEL WITH INSIDE CLEAR DIMENSIONS OF 6'-0" WIDE X 6'-0" TALL TO REMAIN.
2. DEMOLISH ALL EXISTING MPS, MPC, AND PC PIPING AND ALL ASSOCIATED FITTINGS, VALVES, SPECIALTIES, SUPPORTS, ANCHORS, AND APPURTENANCES FROM POINTS SHOWN IN BATE BUILDING MECHANICAL ROOM TO POINTS SHOWN IN TUNNEL.
3. 20' SECTION OF TUNNEL TOP SLAB REMOVAL FOR ACCESS. REFER TO STRUCTURAL PLANS FOR TOP SLAB REPAIR DETAILS. REFER TO CIVIL PLANS FOR SITE RESTORATION DETAILS.
4. EXISTING CROSS BEAM TO REMAIN.

EAST CAROLINA UNIVERSITY MAIN CAMPUS
REPLACE CONDENSATE BATE TO WRIGHT STEAM TUNNEL
GREENVILLE, NC 27959



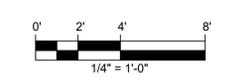
1 MECHANICAL TUNNEL DEMOLITION PLAN
SCALE: 1/4" = 1'-0"
NORTH

SEAL



KEY PLAN

SCALE



REVISIONS

NO.	DESCRIPTION	DATE

DRAWN BY: TJH

APPROVED BY: JJP

CHECKED BY: JMT

DATE: JANUARY 9, 2026

TITLE

MECHANICAL TUNNEL DEMOLITION PLAN

SCO ID #: 24-28174-01A

ECU PROJECT #: AIM CP# 2097

DEI PROJECT #: 50183387

M2.06

SHEET NO.

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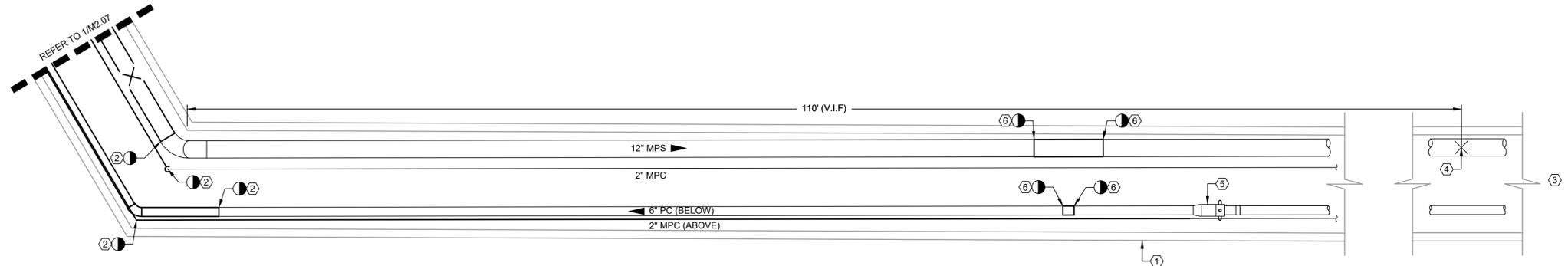
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1 MECHANICAL TUNNEL DEMOLITION PLAN
 SCALE: 1/4" = 1'-0"



GENERAL NOTES:

1. IN ALL AREAS SHOWN, DEMOLISH ALL ABANDONED UTILITIES, SUPPORTS, EQUIPMENT, WIRES, CONDUIT, ETC.
2. CONTRACTOR SHALL WASH DOWN TUNNEL TO CLEAN OUT MUD AND DEBRIS. CONTRACTOR SHALL BE RESPONSIBLE FOR CAPTURING AND DISPOSING OF WATER.

KEYED NOTES INDICATED BY (#) :

1. EXISTING TUNNEL WITH INSIDE CLEAR DIMENSIONS OF 6'-0" WIDE X 6'-0" TALL TO REMAIN.
2. DEMOLISH ALL EXISTING MPS, MPC, AND PC PIPING AND ALL ASSOCIATED FITTINGS, VALVES, SPECIALTIES, SUPPORTS, ANCHORS, AND APPURTENANCES FROM POINTS SHOWN IN BATE BUILDING MECHANICAL ROOM TO POINTS SHOWN IN TUNNEL.
3. EXISTING 12" MPS AND 6" PC ROUTED IN TUNNEL, WITH INSIDE CLEAR DIMENSIONS OF 6'-0" WIDE X 6'-0" TALL, TOWARD GARRETT HALL TO REMAIN.
4. EXISTING ANCHOR TO REMAIN.
5. EXISTING SLIP JOINT TO REMAIN.
6. DEMOLISH SECTION OF MPS AND PC PIPING AS REQUIRED TO INSTALL AN ISOLATION VALVE WITH DRIP LEGS UP AND DOWNSTREAM ON MPS AND AN ISOLATION VALVE ON PC PIPING. WORK SHALL BE INSTALLED COMPLETELY DURING THE UNIVERSITY'S ANNUAL STEAM OUTAGE FROM 5/10/2026 AND 5/14/2026.



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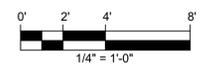
EAST CAROLINA UNIVERSITY MAIN CAMPUS
 REPLACE CONDENSATE BATE TO WRIGHT STEAM TUNNEL
 GREENVILLE, NC 27698

SEAL



KEY PLAN

SCALE



REVISIONS

NO.	DESCRIPTION	DATE

DRAWN BY: TJH
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 CHECKED BY: JMT
 DATE: JANUARY 9, 2026

TITLE
MECHANICAL TUNNEL DEMOLITION PLAN
 SCO ID #: 24-28174-01A
 ECU PROJECT #: AIM CP# 2097
 DEI PROJECT #: 50183387

M2.08

SHEET NO.

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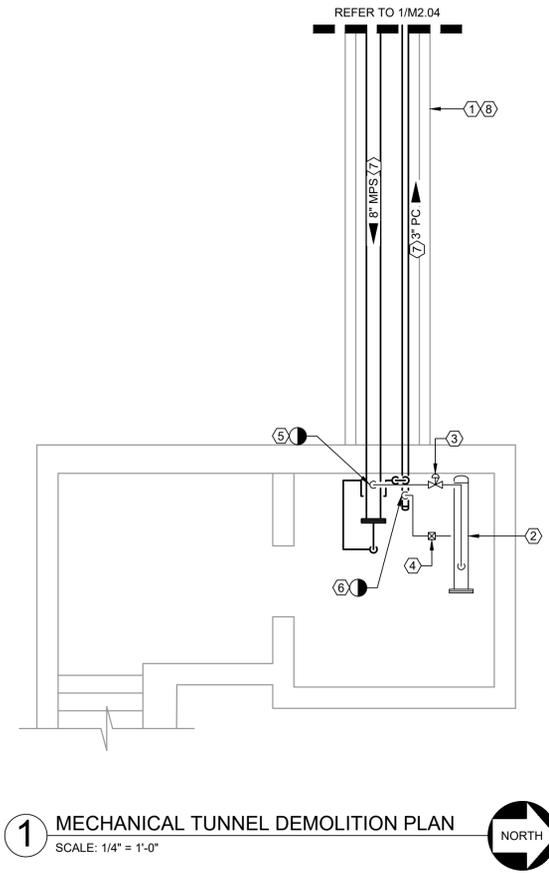
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KEYED NOTES INDICATED BY (Ⓢ) :

- EXISTING BOX CONDUIT TO REMAIN. IN ORDER TO PROVIDE ACCESS IN BOX CONDUIT TO REPLACE PIPING, REMOVE AND REPLACE BOX CONDUIT TOP SLAB FROM TUNNEL TO JUST UPSTREAM OF GRAHAM STAIRS. REFER TO STRUCTURAL PLANS FOR TOP SLAB REPLACEMENT DETAILS.
- EXISTING STEAM TO HEATING HOT WATER SHELL AND TUBE HEAT EXCHANGER SERVING GRAHAM BUILDING TO REMAIN.
- EXISTING PRESSURE REDUCING VALVE TO REMAIN.
- EXISTING STEAM TRAP STATION TO REMAIN.
- DISCONNECT EXISTING STEAM BRANCH LINE AND PREPARE FOR RECONNECTION.
- DISCONNECT EXISTING LOW PRESSURE CONDENSATE FROM HEAT EXCHANGER AND PREPARE FOR RECONNECTION.
- DEMOLISH 8" MPS AND 3" PC IN BOX CONDUIT UP TO INSIDE OF GRAHAM BUILDING ENTRANCE.
- CLEAN OUT MUD, WATER AND DEBRIS AND DEMOLISH ALL ABANDONED UTILITIES, SUPPORTS, EQUIPMENT, WIRES, CONDUIT, ETC. IN BOX CONDUIT.



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EAST
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 MAIN CAMPUS
 REPLACE CONDENSATE
 BATE TO WRIGHT STEAM TUNNEL

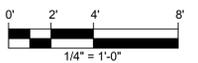
GREENVILLE, NC 27959

SEAL



KEY PLAN

SCALE



REVISIONS

NO.	DESCRIPTION	DATE

DRAWN BY: TJH

APPROVED BY: JJP

CHECKED BY: JMT

DATE: JANUARY 9, 2026

TITLE

MECHANICAL
 TUNNEL
 DEMOLITION
 PLAN

SCO ID #: 24-28174-01A

ECU PROJECT #: AIM CP# 2097

DEI PROJECT #: 50183387

M2.09

SHEET NO.

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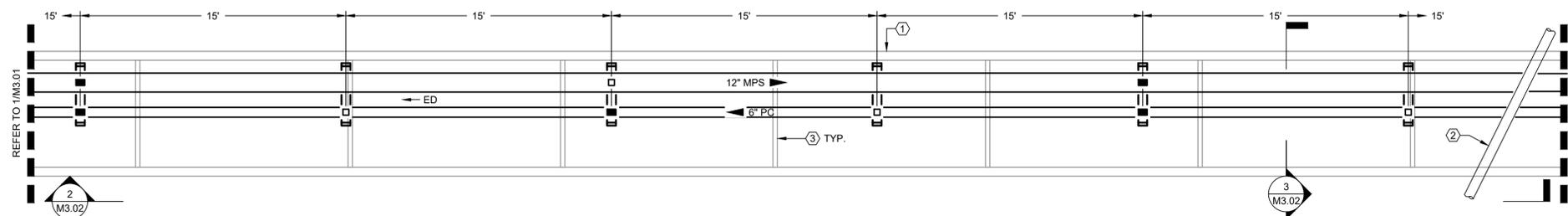
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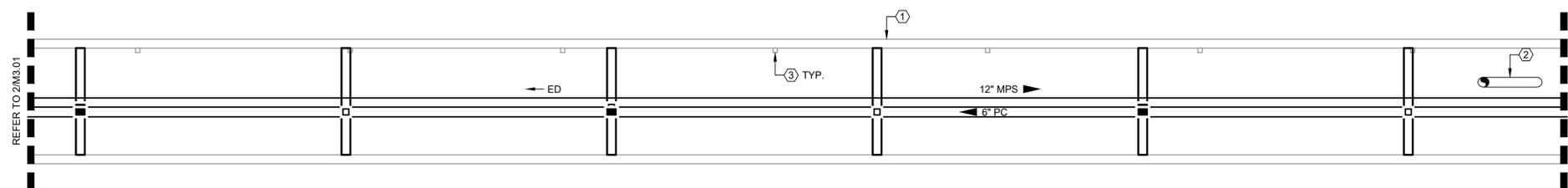
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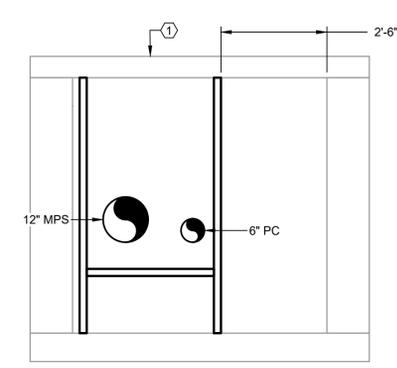
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1 MECHANICAL TUNNEL NEW WORK PLAN
SCALE: 1/4" = 1'-0"
NORTH



2 MECHANICAL TUNNEL NEW WORK SECTION
SCALE: 1/4" = 1'-0"



3 MECHANICAL TUNNEL NEW WORK SECTION
SCALE: 1/2" = 1'-0"

GENERAL NOTES:

1. 12-INCH MEDIUM PRESSURE STEAM PIPE (TYP)
 - a. FIRST PIPE GUIDE: DIMENSION PER PLANS (12 FEET MAX FROM SLIP JOINT).
 - b. SECOND PIPE GUIDE: DIMENSION PER PLANS (12 FEET MAX FROM FIRST PIPE GUIDE).
 - c. INTERMEDIATE PIPE GUIDES: DIMENSION PER PLANS (75 FEET MAX BETWEEN PIPE GUIDES).
 - d. INTERMEDIATE PIPE SUPPORTS: DIMENSION PER PLANS (30 FEET MAX BETWEEN PIPE GUIDES/SUPPORTS/ANCHORS).
2. 6-INCH PUMPED CONDENSATE PIPE (TYP)
 - a. FIRST PIPE GUIDE: DIMENSION PER PLANS (6 FEET MAX FROM SLIP JOINT).
 - b. SECOND PIPE GUIDE: DIMENSION PER PLANS (6 FEET MAX FROM FIRST PIPE GUIDE).
 - c. INTERMEDIATE PIPE GUIDES: DIMENSION PER PLANS (35 FEET MAX BETWEEN PIPE GUIDES).
 - d. INTERMEDIATE PIPE SUPPORTS: DIMENSION PER PLANS (17 FEET MAX BETWEEN PIPE GUIDES/SUPPORTS/ANCHORS).
3. SHOULD SUPPORT SPACING CONFLICTS ARISE BASED ON FIELD CONDITIONS, NOTIFY ENGINEER IN WRITING AND WAIT FOR DIRECTION PRIOR TO PROCEEDING.
4. REFER TO STRUCTURAL PLANS FOR PIPE RACK, SLIDE, AND ANCHOR DETAILS.

KEYED NOTES INDICATED BY (Ⓝ) :

1. EXISTING TUNNEL WITH INSIDE CLEAR DIMENSIONS OF 6'-0" WIDE X 6'-0" TALL TO REMAIN.
2. EXISTING UTILITY CROSSING TO REMAIN.
3. EXISTING CROSS BEAM TO REMAIN.



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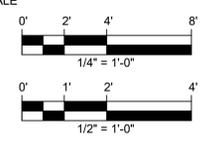
EAST CAROLINA UNIVERSITY MAIN CAMPUS
 REPLACE CONDENSATE BATE TO WRIGHT STEAM TUNNEL
 GREENVILLE, NC 27858

SEAL



KEY PLAN

SCALE



REVISIONS

NO.	DESCRIPTION	DATE

DRAWN BY: TJH
 APPROVED BY: JJP
 CHECKED BY: JMT
 DATE: JANUARY 9, 2026

TITLE
 MECHANICAL TUNNEL NEW WORK PLAN

SCO ID #: 24-28174-01A
 ECU PROJECT #: AIM CP# 2097
 DEI PROJECT #: 50183387

M3.02

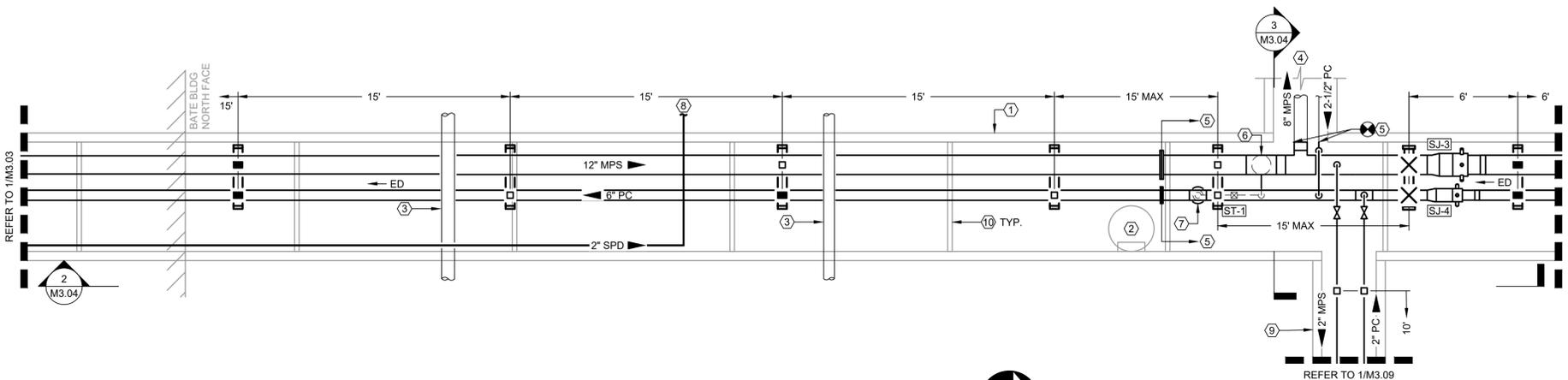
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GENERAL NOTES:

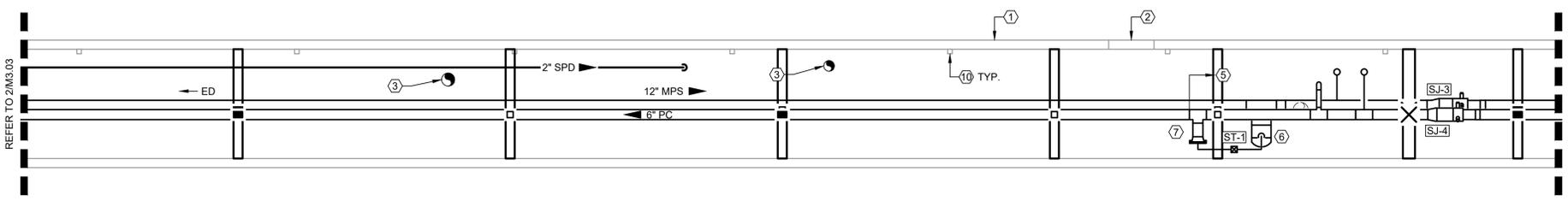
1. 12-INCH MEDIUM PRESSURE STEAM PIPE (TYP)
 - a. FIRST PIPE GUIDE: DIMENSION PER PLANS (12 FEET MAX FROM SLIP JOINT).
 - b. SECOND PIPE GUIDE: DIMENSION PER PLANS (12 FEET MAX FROM FIRST PIPE GUIDE).
 - c. INTERMEDIATE PIPE GUIDES: DIMENSION PER PLANS (75 FEET MAX BETWEEN PIPE GUIDES).
 - d. INTERMEDIATE PIPE SUPPORTS: DIMENSION PER PLANS (30 FEET MAX BETWEEN PIPE GUIDES/SUPPORTS/ANCHORS).
2. 6-INCH PUMPED CONDENSATE PIPE (TYP)
 - a. FIRST PIPE GUIDE: DIMENSION PER PLANS (6 FEET MAX FROM SLIP JOINT).
 - b. SECOND PIPE GUIDE: DIMENSION PER PLANS (6 FEET MAX FROM FIRST PIPE GUIDE).
 - c. INTERMEDIATE PIPE GUIDES: DIMENSION PER PLANS (35 FEET MAX BETWEEN PIPE GUIDES).
 - d. INTERMEDIATE PIPE SUPPORTS: DIMENSION PER PLANS (17 FEET MAX BETWEEN PIPE GUIDES/SUPPORTS/ANCHORS).
3. SHOULD SUPPORT SPACING CONFLICTS ARISE BASED ON FIELD CONDITIONS, NOTIFY ENGINEER IN WRITING AND WAIT FOR DIRECTION PRIOR TO PROCEEDING.
4. REFER TO STRUCTURAL PLANS FOR PIPE RACK, SLIDE, AND ANCHOR DETAILS.

KEYED NOTES INDICATED BY (N):

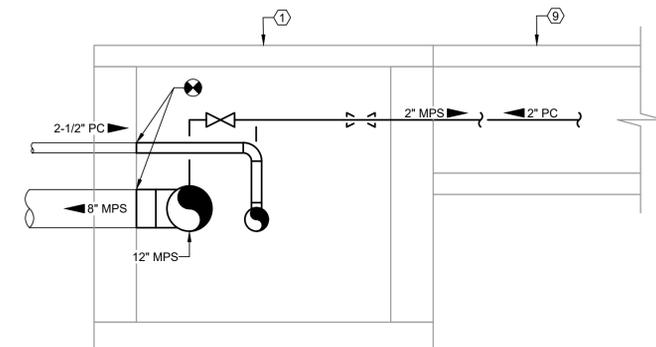
1. EXISTING TUNNEL WITH INSIDE CLEAR DIMENSIONS OF 6'-0" WIDE X 6'-0" TALL TO REMAIN.
2. 30" TUNNEL ACCESS WITH LADDER. REFER TO STRUCTURAL PLANS AND SPECIFICATIONS FOR DETAILS AND REQUIREMENTS ASSOCIATED WITH THE RISER AND LADDER. REFER TO CIVIL PLANS AND SPECIFICATIONS FOR DETAILS AND REQUIREMENTS ASSOCIATED WITH THE LID AND RIM ELEVATION.
3. EXISTING UTILITY CROSSING TO REMAIN.
4. EXISTING 8" HPS AND 2-1/2" PC ROUTED IN BOX CONDUIT TUNNEL TOWARD FLANAGAN BUILDING TO REMAIN.
5. MPS & PC PIPING SHALL BE INSTALLED, TESTED, AND OPERATIONAL TO POINTS INDICATED IN ORDER TO PROVIDE BACKFLOW SERVICE PRIOR TO 8/9/2026. ALTERNATIVELY, PROVIDE TEMPORARY SERVICES TO MAINTAIN STEAM SERVICE TO FLANAGAN BUILDING AND GRAHAM BUILDING PRIOR TO 8/9/2026.
6. PROVIDE FULL SIZE DRIP LEG. REFER TO MECHANICAL DETAIL SHEETS FOR DRIP LEG & TRAP ASSEMBLY DETAIL.
7. PROVIDE FLASH ARRESTOR WHERE MPC TIES INTO PC MAIN. REFER TO MECHANICAL DETAIL SHEETS FOR FLASH ARRESTOR DETAIL.
8. 2" SUMP DISCHARGE PIPING TO STORM. PROVIDE TWO MODULAR PIPE SEALS AT MANHOLE WALL PENETRATION. REFER TO CIVIL SITE PLAN FOR CONTINUATION.
9. EXISTING BOX CONDUIT, WITH ASSUMED INSIDE CLEAR DIMENSIONS OF 3'-0" WIDE X 2'-6" TALL, TO REMAIN. IN ORDER TO PROVIDE ACCESS IN BOX CONDUIT TO REPLACE PIPING, REMOVE AND REPLACE BOX CONDUIT TOP SLAB FROM TUNNEL TO JUST UPSTREAM OF GRAHAM BUILDING STAIRS. REFER TO STRUCTURAL PLANS FOR TOP SLAB REPLACEMENT DETAILS.
10. EXISTING CROSS BEAM TO REMAIN.



1 MECHANICAL TUNNEL NEW WORK PLAN
SCALE: 1/4" = 1'-0"
NORTH



2 MECHANICAL TUNNEL NEW WORK SECTION
SCALE: 1/4" = 1'-0"



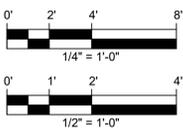
3 MECHANICAL TUNNEL NEW WORK SECTION
SCALE: 1/2" = 1'-0"

SEAL



KEY PLAN

SCALE



REVISIONS

NO.	DESCRIPTION	DATE

DRAWN BY: TJH

APPROVED BY: JJP

CHECKED BY: JMT

DATE: JANUARY 9, 2026

TITLE

MECHANICAL TUNNEL NEW WORK PLAN

SCO ID #: 24-28174-01A

ECU PROJECT #: AIM CP# 2097

DEI PROJECT #: 50183387

M3.04

SHEET NO.

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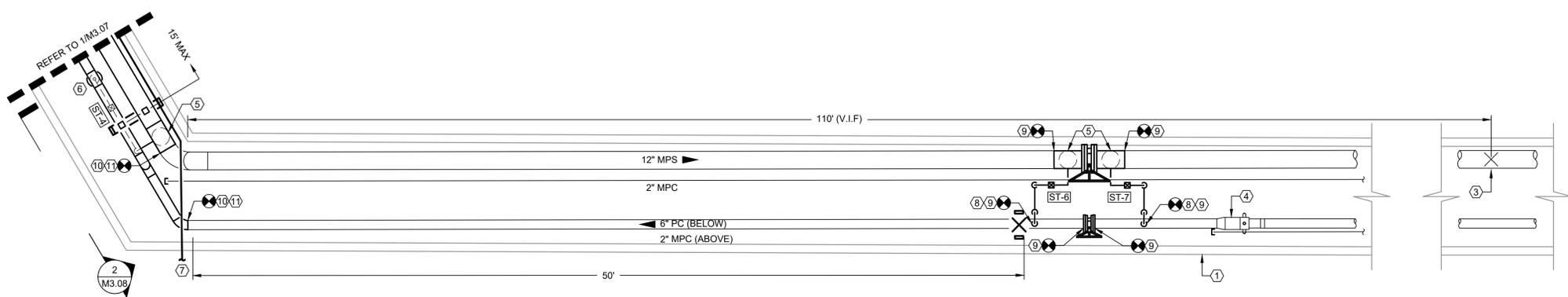
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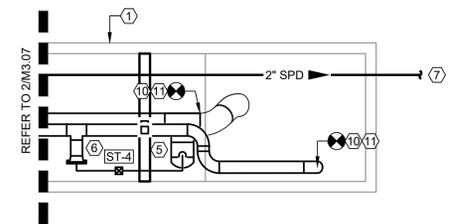
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1 MECHANICAL TUNNEL NEW WORK PLAN
SCALE: 1/4" = 1'-0"



2 MECHANICAL TUNNEL NEW WORK SECTION
SCALE: 1/4" = 1'-0"

GENERAL NOTES:

1. 12-INCH MEDIUM PRESSURE STEAM PIPE (TYP)
 - a. FIRST PIPE GUIDE: DIMENSION PER PLANS (12 FEET MAX FROM SLIP JOINT).
 - b. SECOND PIPE GUIDE: DIMENSION PER PLANS (12 FEET MAX FROM FIRST PIPE GUIDE).
 - c. INTERMEDIATE PIPE GUIDES: DIMENSION PER PLANS (75 FEET MAX BETWEEN PIPE GUIDES).
 - d. INTERMEDIATE PIPE SUPPORTS: DIMENSION PER PLANS (30 FEET MAX BETWEEN PIPE GUIDES/SUPPORTS/ANCHORS).
2. 6-INCH PUMPED CONDENSATE PIPE (TYP)
 - a. FIRST PIPE GUIDE: DIMENSION PER PLANS (6 FEET MAX FROM SLIP JOINT).
 - b. SECOND PIPE GUIDE: DIMENSION PER PLANS (6 FEET MAX FROM FIRST PIPE GUIDE).
 - c. INTERMEDIATE PIPE GUIDES: DIMENSION PER PLANS (35 FEET MAX BETWEEN PIPE GUIDES).
 - d. INTERMEDIATE PIPE SUPPORTS: DIMENSION PER PLANS (17 FEET MAX BETWEEN PIPE GUIDES/SUPPORTS/ANCHORS).
3. SHOULD SUPPORT SPACING CONFLICTS ARISE BASED ON FIELD CONDITIONS, NOTIFY ENGINEER IN WRITING AND WAIT FOR DIRECTION PRIOR TO PROCEEDING.
4. REFER TO STRUCTURAL PLANS FOR PIPE RACK, SLIDE, AND ANCHOR DETAILS.

KEYED NOTES INDICATED BY (N) :

1. EXISTING TUNNEL WITH INSIDE CLEAR DIMENSIONS OF 6'-0" WIDE X 6'-0" TALL TO REMAIN.
2. EXISTING 12" MPS AND 6" PC ROUTED IN TUNNEL, WITH INSIDE CLEAR DIMENSIONS OF 6'-0" WIDE X 6'-0" TALL, TOWARD GARRETT HALL TO REMAIN.
3. EXISTING ANCHOR TO REMAIN.
4. EXISTING SLIP JOINT TO REMAIN.
5. PROVIDE FULL SIZE DRIP LEG. REFER TO MECHANICAL DETAIL SHEETS FOR DRIP LEG & TRAP ASSEMBLY DETAIL.
6. PROVIDE FLASH ARRESTOR WHERE MPC TIES INTO PC MAIN. REFER TO MECHANICAL DETAIL SHEETS FOR FLASH ARRESTOR DETAIL.
7. 2" SUMP DISCHARGE PIPING TO STORM. PROVIDE TWO MODULAR PIPE SEALS AT MANHOLE WALL PENETRATION. REFER TO CIVIL SITE PLAN FOR CONTINUATION.
8. CONNECT MPC TRAP DISCHARGE PIPING DIRECTLY INTO THE TOP OF THE 6" PC MAIN.
9. INSTALL ISOLATION VALVE WITH DRIP LEGS UP AND DOWNSTREAM ON MPS AND ISOLATION VALVE ON PC PIPING. WORK SHALL BE INSTALLED COMPLETELY DURING THE UNIVERSITY'S ANNUAL STEAM OUTAGE FROM 5/10/2026 - 5/14/2026
10. MPS & PC PIPING SHALL BE INSTALLED, TESTED, AND OPERATIONAL TO POINTS INDICATED IN ORDER TO PROVIDE BACKFLOW SERVICE TO SPILLMAN BUILDING, WHICHARD BUILDING, WRIGHT AUDITORIUM, RAGSDALE HALL, AND MESSICK THEATRE ARTS CENTER PRIOR TO 7/1/2026
11. MPS & PC PIPING SHALL BE INSTALLED, TESTED, AND OPERATIONAL TO POINTS INDICATED IN ORDER TO PROVIDE BACKFLOW SERVICE TO FLANAGAN BUILDING AND GRAHAM BUILDING PRIOR TO 8/9/2026 ALTERNATIVELY, PROVIDE TEMPORARY SERVICES TO MAINTAIN STEAM SERVICE TO FLANAGAN AND GRAHAM BUILDINGS PRIOR TO 8/9/2026



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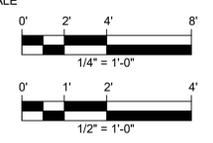
EAST CAROLINA UNIVERSITY MAIN CAMPUS
 REPLACE CONDENSATE BATE TO WRIGHT STEAM TUNNEL
 GREENVILLE, NC 27695

SEAL



KEY PLAN

SCALE



REVISIONS

NO.	DESCRIPTION	DATE

DRAWN BY: TJH

APPROVED BY: JJP

CHECKED BY: JMT

DATE: JANUARY 9, 2026

TITLE

MECHANICAL TUNNEL NEW WORK PLAN

SCO ID #: 24-28174-01A

ECU PROJECT #: AIM CP# 2097

DEI PROJECT #: 50183387

M3.08

SHEET NO.

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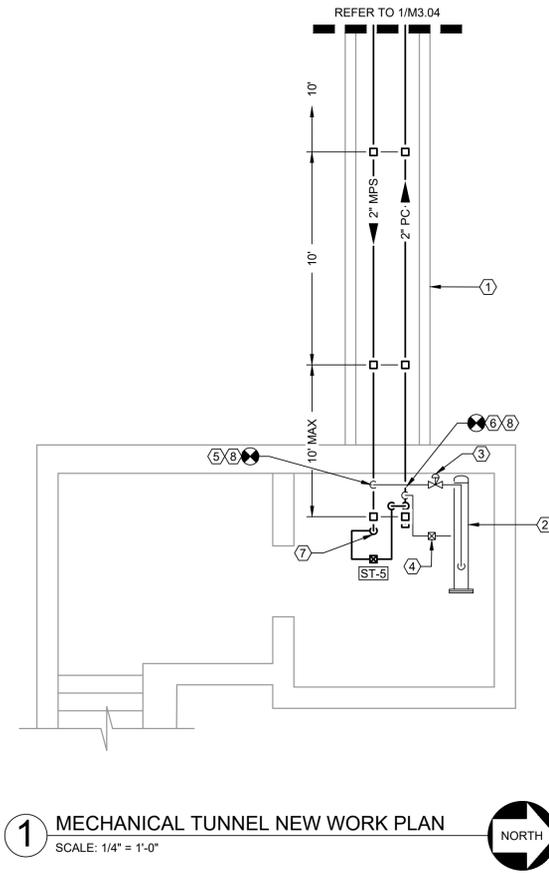
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GENERAL NOTES:

1. 2-INCH MEDIUM PRESSURE STEAM PIPE (TYP)
 - a. INTERMEDIATE PIPE SUPPORTS: DIMENSION PER PLANS (13 FEET MAX BETWEEN PIPE GUIDES/SUPPORTS/ANCHORS).
2. 2-INCH PUMPED CONDENSATE PIPE (TYP)
 - a. INTERMEDIATE PIPE GUIDES: DIMENSION PER PLANS (10 FEET MAX BETWEEN PIPE GUIDES/SUPPORTS/ANCHORS).
3. SHOULD SUPPORT SPACING CONFLICTS ARISE BASED ON FIELD CONDITIONS, NOTIFY ENGINEER IN WRITING AND WAIT FOR DIRECTION PRIOR TO PROCEEDING.
4. REFER TO STRUCTURAL PLANS FOR PIPE RACK, SLIDE, AND ANCHOR DETAILS.

KEYED NOTES INDICATED BY (Ⓢ) :

1. EXISTING BOX CONDUIT TO REMAIN. IN ORDER TO PROVIDE ACCESS IN BOX CONDUIT TO REPLACE PIPING, REMOVE AND REPLACE BOX CONDUIT TOP SLAB FROM TUNNEL TO JUST UPSTREAM OF GRAHAM STAIRS. REFER TO STRUCTURAL PLANS FOR TOP SLAB REPLACEMENT DETAILS.
2. EXISTING STEAM TO HEATING HOT WATER SHELL AND TUBE HEAT EXCHANGER SERVING GRAHAM BUILDING TO REMAIN.
3. EXISTING PRESSURE REDUCING VALVE TO REMAIN.
4. EXISTING STEAM TRAP STATION TO REMAIN.
5. RECONNECT EXISTING STEAM BRANCH LINE.
6. RECONNECT EXISTING LOW PRESSURE CONDENSATE FROM HEAT EXCHANGER.
7. PROVIDE FULL SIZE DRIP LEG. REFER TO MECHANICAL DETAIL SHEETS FOR DRIP LEG & TRAP ASSEMBLY DETAIL.
8. MPS & PC PIPING SHALL BE INSTALLED, TESTED, AND OPERATIONAL TO POINTS INDICATED IN ORDER TO PROVIDE BACKFLOW SERVICE TO FLANAGAN BUILDING AND GRAHAM BUILDING PRIOR TO 8/9/2026. ALTERNATIVELY, PROVIDE TEMPORARY SERVICES TO MAINTAIN STEAM SERVICE TO FLANAGAN AND GRAHAM BUILDINGS PRIOR TO 8/9/2026.



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EAST CAROLINA UNIVERSITY MAIN CAMPUS
 REPLACE CONDENSATE BATE TO WRIGHT STEAM TUNNEL

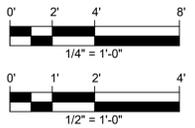
GREENVILLE, NC 27699

SEAL



KEY PLAN

SCALE



REVISIONS

NO.	DESCRIPTION	DATE

DRAWN BY: TJH

APPROVED BY: JJP

CHECKED BY: JMT

DATE: JANUARY 9, 2026

TITLE

MECHANICAL TUNNEL NEW WORK PLAN

SCO ID #: 24-28174-01A

ECU PROJECT #: AIM CP# 2097

DEI PROJECT #: 50183387

M3.09

SHEET NO.

ELECTRICAL LEGEND:

- LIGHTING:**
 X DENOTES FIXTURE TYPE (TYP.)
 SEE FIXTURE SCHEDULE
 # DENOTES CIRCUIT NUMBER (TYP.)
- RECEPTACLES:**
 X DENOTES RECEPTACLE TYPE (TYP.):
 GFCI: GROUND FAULT CIRCUIT INTERRUPT
 WPCR: WEATHERPROOF CORROSION RESISTANT
 # DENOTES CIRCUIT NUMBER (TYP.)
- SWITCHES**
 # DENOTES TYPE:
 NO SUBSCRIPT: SINGLE-POLE SWITCH
 3: 3-WAY SWITCH
 4: 4-WAY SWITCH
 M: MANUAL MOTOR STARTER
 # DENOTES CIRCUIT NUMBER
- MISC PLAN VIEW SYMBOLS**
 EQUIPMENT CONNECTION

ABBREVIATIONS:

- A AMPS
 CKT CIRCUIT
 C CONDUIT
 DSW DISCONNECT SWITCH
 EX EXISTING
 G/GND GROUND
 GFCI GROUND FAULT CIRCUIT INTERRUPTER
 JB JUNCTION BOX
 N4X NEMA 4X SST
 NEC NATIONAL ELECTRICAL CODE
 NEMA NATIONAL ELECTRICAL MANUFACTURERS ASSOC.
 NTS NOT TO SCALE
 P POLE
 RCPT RECEPTACLE
 RMC RIGID METALLIC CONDUIT
 SST STAINLESS STEEL
 TYP TYPICAL
 UON UNLESS OTHERWISE NOTED
 V VOLTS
 VA VOLT AMPS
 W WATTS
 XFMR TRANSFORMER

DEMO NOTES:

- CONTRACTOR SHALL VERIFY THAT ALL EXISTING SYSTEMS ARE OPERATIONAL AT THE START OF CONSTRUCTION.
- EQUIPMENT, DEVICES, LIGHTING FIXTURES AND SWITCHES THAT ARE EXISTING TO REMAIN ARE IDENTIFIED WITH A "LIGHT & THIN" CONTINUOUS LINE TYPE. EQUIPMENT, DEVICES, LIGHTING FIXTURES AND SWITCHES TO BE REMOVED ARE IDENTIFIED WITH A "DARK & BOLD" DASHED LINETYPE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATIONS OF AND PROTECTING ALL EXISTING EQUIPMENT, DEVICES, LIGHTING FIXTURES AND SWITCHES TO REMAIN DURING CONSTRUCTION. THE CONTRACTOR SHALL REPLACE ANY EQUIPMENT, DEVICES, LIGHTING FIXTURES AND SWITCHES DAMAGED DURING CONSTRUCTION WITH EQUAL EQUIPMENT, DEVICES, LIGHTING FIXTURES AND SWITCHES AT THE CONTRACTOR'S EXPENSE.
- REMOVE CONDUCTORS FROM DEMOLISHED CIRCUITS BACK TO SOURCE UNLESS OTHERWISE NOTED AND REUSE EXISTING CONDUITS IN PLACE WHERE APPLICABLE. REMOVE ALL CONDUITS NOT REUSED. CUT OFF OUT OF SITE, CAP AND ABANDON IN PLACE ALL UNUSED CONDUITS THAT ARE NOT ACCESSIBLE.
- REMOVE MATERIAL FROM THE PROJECT SITE AND DISPOSE OF PROPERLY UNLESS OTHERWISE NOTED ON PLANS. CONTRACTOR SHALL ADHERE TO ECU APPROVED RECYCLING PROGRAM AND ALL STATE GENERAL STATUES.
- CONTRACTOR SHALL PROVIDE UPSTREAM AND DOWNSTREAM CONDUCTORS AND EXTEND RACEWAYS AS REQUIRED TO MAINTAIN SERVICE TO EXISTING DEVICES NOT ASSOCIATED WITH THIS PROJECT. REFER TO DRAWINGS FOR DEVICES THAT SHALL BE REMOVED.

GENERAL NOTES:

- THESE DRAWINGS ARE GENERALLY DIAGRAMMATIC AND DO NOT SHOW ALL DETAILS REQUIRED FOR THE COMPLETE SYSTEM. THEY SHOULD HOWEVER BE FOLLOWED AS CLOSELY AS POSSIBLE IN THE GENERAL ARRANGEMENT AND LOCATION OF EQUIPMENT. ALL DIMENSIONS SHALL BE CHECKED AT THE BUILDING AND ALL STRUCTURAL AND FINISH CONDITIONS INVESTIGATED. THE CONTRACTOR SHALL ARRANGE HIS WORK TO MEET THESE CONDITIONS AND PROVIDE SUCH EQUIPMENT AND ACCESSORIES AS MAY BE REQUIRED.
- THE STATE CONSTRUCTION OFFICE IS THE AUTHORITY HAVING JURISDICTION (AHJ) FOR THE ELECTRICAL INSPECTIONS ON THIS PROJECT. IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO NOTIFY THE STATE PROPERTY ELECTRICAL INSPECTORS IN THE STATE CONSTRUCTION OFFICE, TO SCHEDULE THE REQUIRED ROUGH-IN, ABOVE CEILING, AND FINAL INSPECTIONS. NO WORK WILL BE COVERED UP UNTIL AFTER THE INSPECTION HAS BEEN COMPLETED AND APPROVED BY AN AUTHORIZED SCO INSPECTOR. SCO ELECTRICAL INSPECTORS ARE ONLY AVAILABLE MONDAY THRU FRIDAY.
- PROPERLY SUPPORT ALL WORK AND EQUIPMENT INSTALLED UNDER THIS CONTRACT PLUMB AND PARALLEL WITH BUILDING LINES. STUDY ALL GENERAL, STRUCTURAL, PLUMBING, HVAC, AND ELECTRICAL DRAWINGS, SHOP DRAWINGS, AND CATALOG DATA TO DETERMINE HOW EQUIPMENT, ACCESSORIES, PIPING, FIXTURES, AND RELATED ITEMS ARE TO BE SUPPORTED, MOUNTED, OR SUSPENDED. PROVIDE ALL BOLTS, INSERTS, PIPE STANDS, BRACKETS, STRUCTURAL SUPPORTS, AND ACCESSORIES FOR PROPER SUPPORT OF EQUIPMENT FURNISHED UNDER THIS CONTRACT.
- COORDINATE THE ELECTRICAL WORK WITH ALL OTHER CONTRACTORS BEFORE BEGINNING WORK TO ENSURE THAT THE ELECTRICAL WORK DOES NOT INTERFERE WITH OTHER WORK. LINES WHICH REQUIRE SLOPE SHALL TAKE PRECEDENCE OVER ELECTRICAL WORK. COORDINATE THIS WITH THE HVAC AND GENERAL CONTRACTORS.
- NOTIFY THE ENGINEER IN WRITING IMMEDIATELY UPON DISCOVERY OF ANY DISCREPANCY OR POINTS OF CONFLICT IN THE DRAWINGS OR THE SPECIFICATIONS. THE ENGINEER WILL CLARIFY SUCH DISCREPANCY OR POINTS OF CONFLICT IN WRITING PRIOR TO THE PROGRESS OF THE WORK BEYOND THE POINT CONCERNED.
- BEFORE INSTALLING EQUIPMENT, MAKE FIELD MEASUREMENTS TO ENSURE THAT ALL ITEMS OF EQUIPMENT FURNISHED WILL FIT INTO THE SPACE AS SHOWN ON THE DRAWINGS. WHERE EQUIPMENT WILL NOT FIT AS SHOWN ON THE DRAWINGS, PROVIDE A DRAWING TO THE ENGINEER FOR APPROVAL WITH A PROPOSED REVISED ARRANGEMENT BEFORE INSTALLING THE EQUIPMENT.
- BRANCH CIRCUIT ROUTING SHALL CONFORM TO THE DETAILS ON THE DRAWINGS AND SPECIFICATIONS. COORDINATE ROUTING WITH THE WORK OF OTHER TRADES BEFORE AND DURING CONSTRUCTION.
- THE ARRANGEMENT, GROUPING, AND ROUTING OF BRANCH CIRCUITS SHALL BE PROVIDED AT THE CONTRACTOR'S DISCRETION IN ACCORDANCE WITH GENERALLY ACCEPTED PRACTICE FOR ELECTRICAL WORK, THE NATIONAL ELECTRICAL CODE REQUIREMENTS, LOCAL ORDINANCES, AND THE FOLLOWING:
 - BRANCH CIRCUIT AND FEEDER CIRCUIT SHALL BE ROUTED OVERHEAD UNLESS PRIOR APPROVAL HAS BEEN GRANTED BY THE ARCHITECT AND ENGINEER.
 - A GROUND CONDUCTOR SHALL BE PROVIDED IN ALL RACEWAYS UNLESS NOTED OTHERWISE.
- DEVICES REQUIRED TO BE ADA ACCESSIBLE SHALL BE INSTALLED PER ANSI A117.1.
- ALL CONDUIT SHALL BE 3/4" MINIMUM. MC CABLE SHALL NOT BE ALLOWED.
- ALL CONDUIT FITTINGS SHALL BE COMPRESSION TYPE.



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GREENVILLE, NC 27695

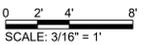
SEAL



01/09/26

KEY PLAN

SCALE



REVISIONS

NO.	DESCRIPTION	DATE

DRAWN BY: JG
 APPROVED BY: DAU
 CHECKED BY: TVA
 DATE: JANUARY 9, 2026

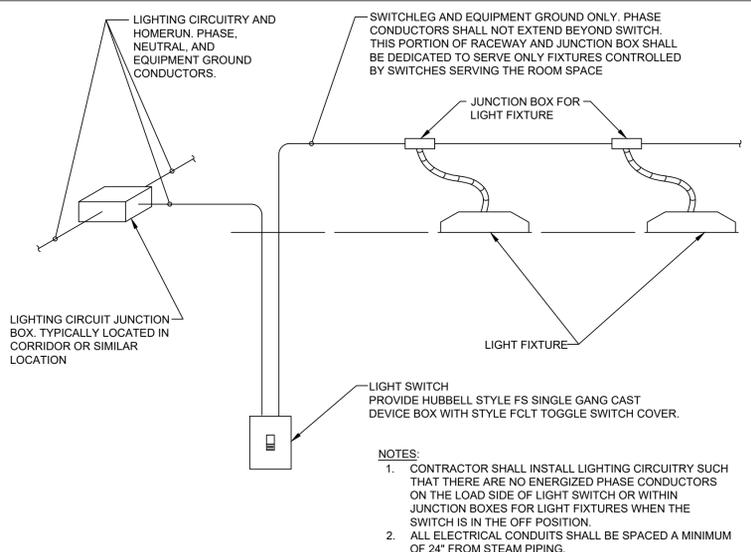
TITLE

ELECTRICAL LEGENDS, ABBREVIATIONS NOTES & DETAILS

SCO ID #: 24-28174-01A
 ECU PROJECT #: AIM CP# 2097
 DEI PROJECT #: 50183387

E0.01

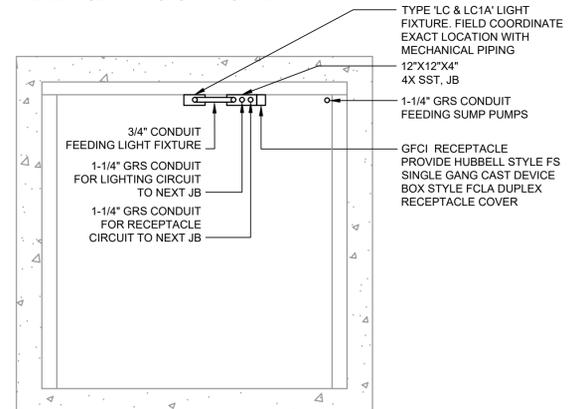
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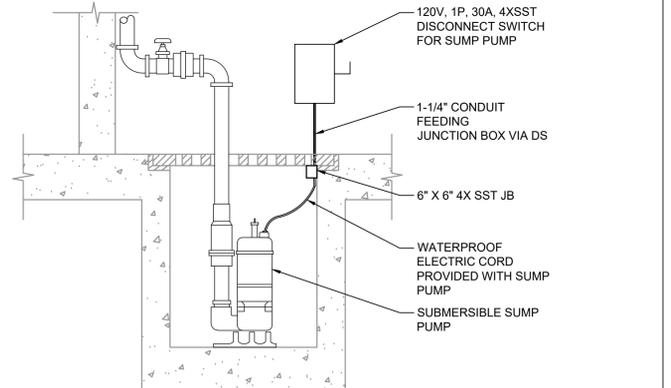
- NOTES:**
- CONTRACTOR SHALL INSTALL LIGHTING CIRCUITRY SUCH THAT THERE ARE NO ENERGIZED PHASE CONDUCTORS ON THE LOAD SIDE OF LIGHT SWITCH OR WITHIN JUNCTION BOXES FOR LIGHT FIXTURES WHEN THE SWITCH IS IN THE OFF POSITION.
 - ALL ELECTRICAL CONDUITS SHALL BE SPACED A MINIMUM OF 24" FROM STEAM PIPING.

1 LIGHT FIXTURE HOMERUN AND SWITCHLEG CIRCUITRY SCALE: NTS E053-06

- NOTE:**
- COORDINATE WITH STEAMLINE INSTALLATION FOR PLACEMENT OF JUNCTION BOXES, CONDUIT, LIGHTS AND RECEPTACLES.
 - LIGHT FIXTURE LOCATIONS IN MECHANICAL SPACES SHALL BE COORDINATED AND DETERMINED IN THE FIELD. FIXTURES SHALL NOT BE SUPPORTED FROM PIPING, CHAIN OR TRAPEZE-TYPE HANGERS SHALL BE PROVIDED WHERE FIXTURES CAN NOT BE MOUNTED DIRECTLY TO STRUCTURE OR CEILING.
 - ALL ELECTRICAL CONDUITS SHALL BE SPACED A MINIMUM OF 24" FROM STEAM PIPING.



2 TUNNEL SECTION (TYPICAL) SCALE: NTS E053-07



3 SUMP PUMP SECTION (TYPICAL) SCALE: NTS E113-37

1

2

3

4

5

E

D

C

B

A

NOTES:

- 1. DISCONNECT AND REMOVE ALL RECEPTACLES, CONDUCTORS AND CONDUIT BACK TO SOURCE. ELECTRICAL CONTRACTOR TO VERIFY NO DISRUPTION TO EXISTING RECEPTACLES AND EQUIPMENT BEYOND DEMO HATCH AREA.
- 2. ADDITIVE BID #1. DISCONNECT AND REMOVE ALL LIGHTING, CONDUCTORS AND CONDUIT BACK TO SOURCE. ELECTRICAL CONTRACTOR TO VERIFY NO DISRUPTION TO EXISTING LIGHTING AND EQUIPMENT BEYOND DEMO HATCH AREA.



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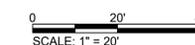
EAST CAROLINA UNIVERSITY MAIN CAMPUS
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SEAL



KEY PLAN

SCALE



REVISIONS

NO.	DESCRIPTION	DATE

DRAWN BY: JG

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DATE: JANUARY 9, 2026

TITLE

ELECTRICAL DEMO PLANS

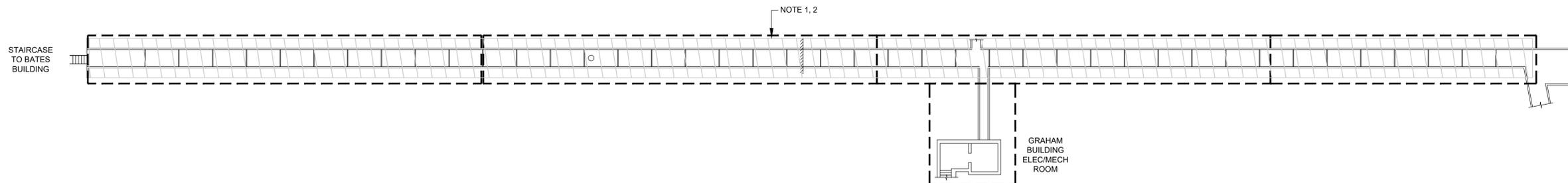
SCO ID #: 24-28174-01A

ECU PROJECT #: AIM CP# 2097

DEI PROJECT #: 50183387

E1.1D

SHEET NO.



1 ELECTRICAL DEMO PLAN
SCALE: 1" = 20'



1

2

3

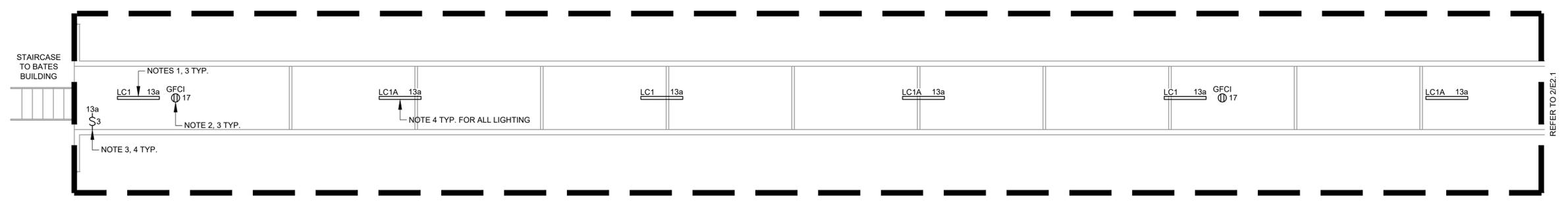
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5

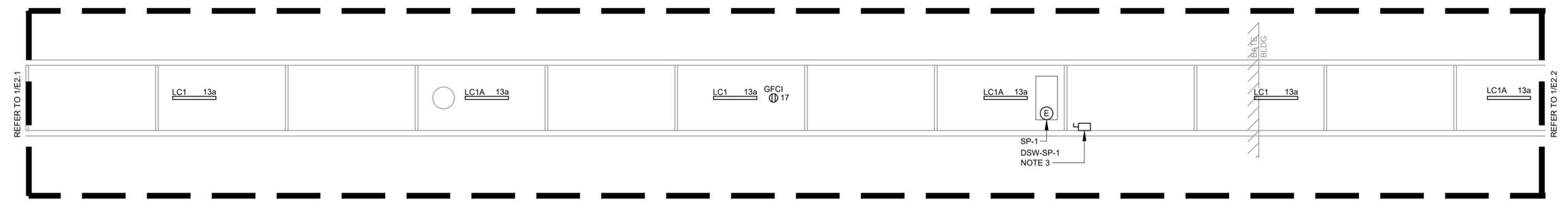
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D
C
B
A

NOTES:

1. LIGHT FIXTURES SHALL BE INSTALLED EVERY 25 FEET ON CENTER DOWN LENGTH OF TUNNEL. REFER TO DETAIL 1/E0.01.
2. RECEPTACLES SHALL BE INSTALLED EVERY 100 FEET ON CENTER DOWN LENGTH OF TUNNEL. REFER TO DETAIL 2/E0.01.
3. COORDINATE INSTALLATION OF ALL ELECTRICAL DEVICES WITH STEAM PIPE AND MECHANICAL DEVICES.
4. ADDITIVE BID #1.



1 ELECTRICAL TUNNEL PLAN - SECTION 1
SCALE: 3/16" = 1'-0" NORTH



2 ELECTRICAL TUNNEL PLAN - SECTION 2
SCALE: 3/16" = 1'-0" NORTH



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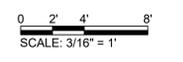
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 GREENVILLE, NC 27695

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KEY PLAN

SCALE



REVISIONS

NO.	DESCRIPTION	DATE

DRAWN BY: JG
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 DATE: JANUARY 9, 2026

TITLE
ELECTRICAL WORK PLANS

SCO ID #: 24-28174-01A
 ECU PROJECT #: AIM CP# 2097
 DEI PROJECT #: 50183387

E2.1

SHEET NO.

1

2

3

4

5

E

D

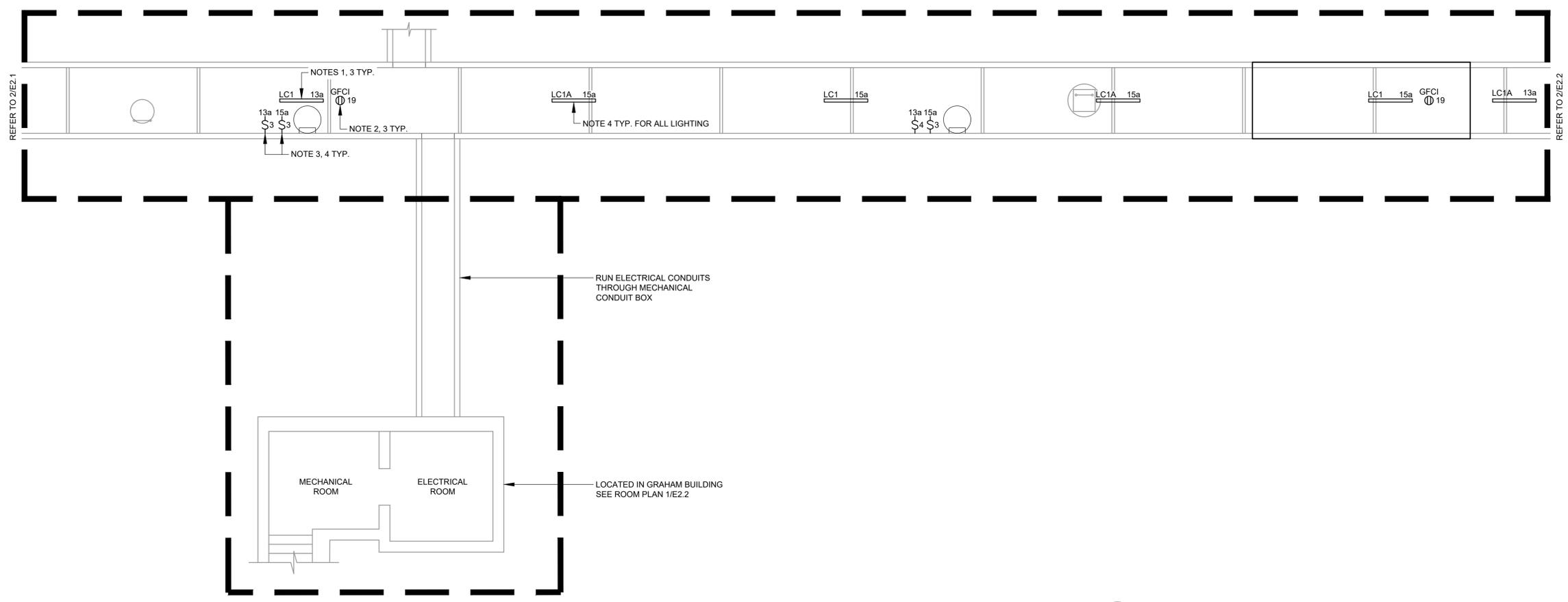
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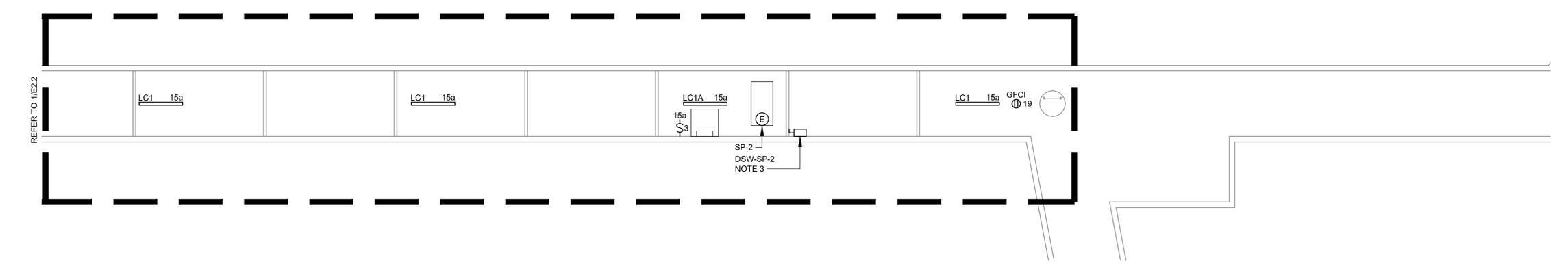
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NOTES:

- 1. LIGHT FIXTURES SHALL BE INSTALLED EVERY 25 FEET ON CENTER DOWN LENGTH OF TUNNEL. REFER TO DETAIL 1/E0.01.
- 2. RECEPTACLES SHALL BE INSTALLED EVERY 100 FEET ON CENTER DOWN LENGTH OF TUNNEL. REFER TO DETAIL 2/E0.01.
- 3. COORDINATE INSTALLATION OF ALL ELECTRICAL DEVICES WITH STEAM PIPE AND MECHANICAL DEVICES.
- 4. ADDITIVE BID #1.



1 ELECTRICAL TUNNEL PLAN - SECTION 3
SCALE: 3/16" = 1'-0"



2 ELECTRICAL TUNNEL PLAN - SECTION 4
SCALE: 3/16" = 1'-0"



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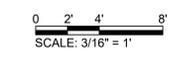
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 REPLACE CONDENSATE BATE TO WRIGHT STEAM TUNNEL
 GREENVILLE, NC 27858

SEAL



KEY PLAN

SCALE



REVISIONS

NO.	DESCRIPTION	DATE

DRAWN BY: JG
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 DATE: JANUARY 9, 2026

TITLE
ELECTRICAL WORK PLANS

SCO ID #: 24-28174-01A
 ECU PROJECT #: AIM CP# 2097
 DEI PROJECT #: 50183387

E2.2

SHEET NO.

208/120 VOLTS 3 PHASE, 4 WIRE *10KAIC				PANEL F MLO 200A 3P				TYPE: NEMA 12 MOUNT: SURFACE				
DESCRIPTION	WIRE	TRIP	POLE	No.	VOLT-AMPERES			No.	POLE	TRIP	WIRE	DESCRIPTION
					A	B	C					
PANEL OSL			100	3	1	---	---	2				
					3	---	---	4	50	3		XFMR XF-2
					5	---	---	6				
PANEL X			50	2	7	---	---	8	60	2		PANEL F2
					9	---	---	10				
AIR COMPRESSOR		20	1	11				12	1	40		AIR COMPRESSOR
LIGHTING TUNNEL	NOTE 1,6	20	1	13	260			14				SPACE
LIGHTING TUNNEL	NOTE 1,6	20	1	15		160		16				SPACE
RECEPTACLE TUNNEL	NOTE 2	20	1	17				18				SPACE
RECEPTACLE TUNNEL	NOTE 2	20	1	19	350			20				SPACE
SP-1	NOTE 3	20G	1	21		1,200		22				SPACE
SP-2	NOTE 3	20G	1	23		1,200		24				SPACE
SPACE				25	---	---		26				SPACE
SPACE				27	---	---		28				SPACE
SPACE				29	---	---		30				SPACE
NOTES:					TOTAL			TOTAL			TOTAL LOAD (AMPS)	
PROVIDE NEW BREAKERS TO MATCH EXISTING, SQUARE D TYPE NQ MFG., SEE NOTE 4 G: PROVIDE GFCI BREAKER					610	1,360	1,920	0	0	0	10.8	
					PHASE TOTAL			TOTAL LOAD			5.4%	
					610	1,360	1,920					

PANEL F LOAD SUMMARY	
EXISTING MAX LOAD (BASED ON ECU 30-DAY METERING DATA) 2.45KVA x 125% =	3.06KVA
LOAD ADDED: LOAD REMOVED:	3.89KVA 0KVA
TOTAL LOAD = AMPERES @ 208V, 3P, 4W =	6.95KVA 19.29AMPS
SOURCE CAPACITY =	200AMPS

NOTES:

- PROVIDE 2#10, #10G TYPE ZW FOR CIRCUIT 13 AND 2#10, #10G TYPE ZW FOR CIRCUIT 15 IN ONE 1-1/4" GRS CONDUIT FOR LIGHTING.
- PROVIDE 2#8, #8G TYPE ZW FOR CIRCUIT 17 AND 2#10, #10G TYPE ZW FOR CIRCUIT 19 IN ONE 1-1/4" GRS CONDUIT FOR RECEPTACLES.
- PROVIDE 2#10, #10G TYPE ZW FOR CIRCUIT 17 FOR SP-1 AND 2#8, #8G TYPE ZW FOR CIRCUITS 19 FOR SP-2 IN ONE 1-1/4" GRS CONDUIT.
- ECU FACILITIES HAVE STARTED 30-DAY METERING ON JANUARY 23, 2025. PROVIDE DATA TO ENGINEER TO EVALUATE PANEL F ADDITIONAL LOAD CAPACITY.
- ALL ELECTRICAL CONDUITS SHALL BE SPACED A MINIMUM OF 24" FROM STEAM PIPING.
- ADDITIVE BID #1.



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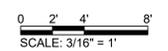
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KEY PLAN

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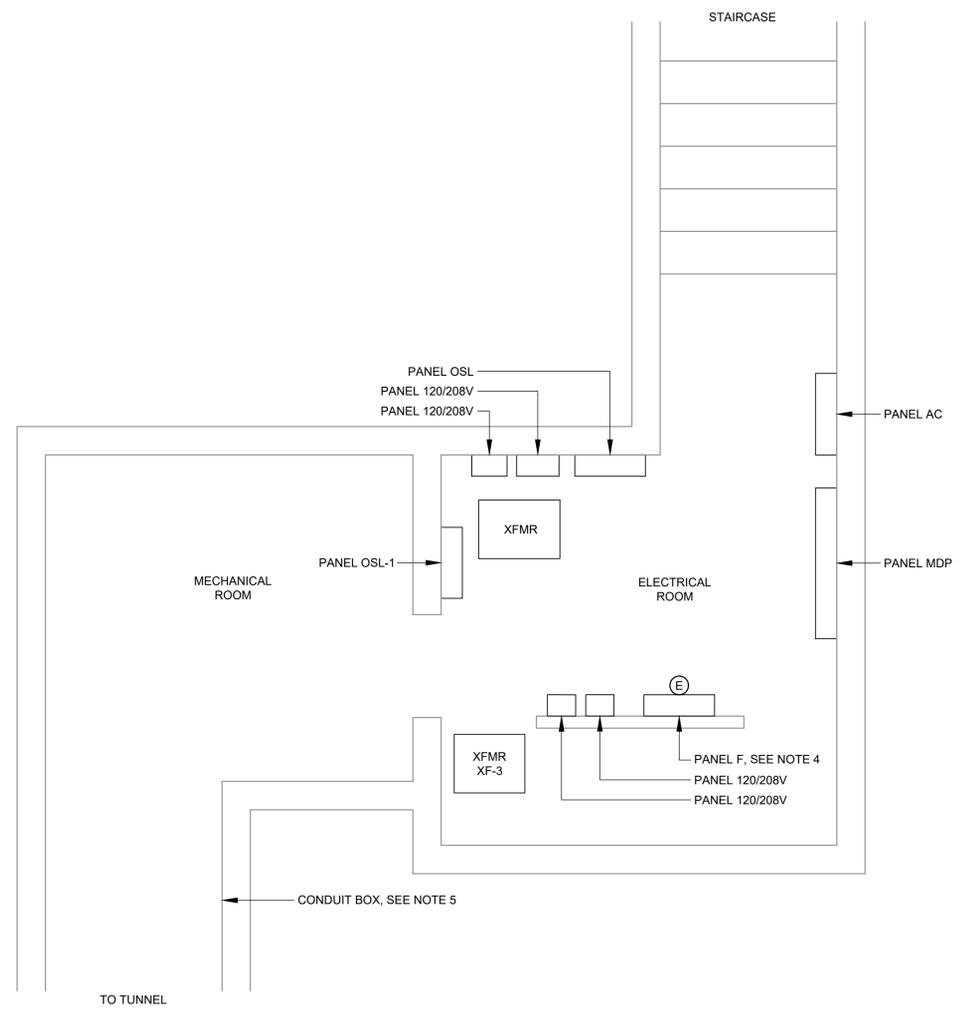
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 APPROVED BY: DAU
 CHECKED BY: TVA
 DATE: JANUARY 9, 2026

TITLE
ELECTRICAL BLDG. PLAN & SCHEDULES

SCO ID #: 24-28174-01A
 ECU PROJECT #: AIM CP# 2097
 DEI PROJECT #: 50183387

E3.1

SHEET NO.



FIXTURE SCHEDULE			
FIXTURE TYPE	FIXTURE WATTAGE	DESCRIPTION	MANUFACTURER AND MODEL
LC1	20W (max)	CEILING-MOUNTED, 120-277VAC, LED LIGHT FIXTURE, COLOR TEMPERATURE OF 3500K, 80CRI, WIDE DIFFUSE LENS, WIDE DISTRIBUTION, STANDARD EFFICIENCY, GASKETED FIBERGLASS HOUSING, STAINLESS STEEL LATCHES, 4FT, 3,000 LUMEN MINIMUM, WET LOCATION LISTED AND HIGH AMBIENT, FOR USE IN AMBIENT TEMPERATURES UP TO 122°F(50°C).	LITHONIA CLX LED SERIES OR APPROVED EQUIVALENT.
LC1A	20W (max)	SIMILAR TO TYPE LC1 EXCEPT EQUIPPED WITH EMERGENCY BATTERY BACKUP.	SAME AS LC1

1 GRAHAM BUILDING MECHANICAL/ELECTRICAL ROOM PLAN
 SCALE: 3/16" = 1'-0"

