

SOUTH QUAD / BTW CONDENSATE LINE PROJECT

PROJECT NUMBER CP00422882
COLUMBIA, SC
CONSTRUCTION DOCUMENTS

DRAWING INDEX

GENERAL

T1 TITLE SHEET

MECHANICAL

M1 SITE PLAN
M2 DETAILS, NOTES, MANHOLE DIAGRAMS AND LEGEND

CAMPUS PLANNING
AND CONSTRUCTION
COLUMBIA, SC 29208

SEAL:

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DESCRIPTION

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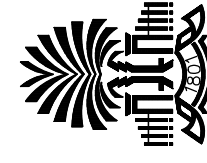
DATE

DESCRIPTION

PROJECT TITLE: SOUTH QUAD/BTW CONDENSATE LINE PROJECT

PROJECT NO. CP00422882

University of South Carolina



Swygert & Associates
CONSULTING ENGINEERS

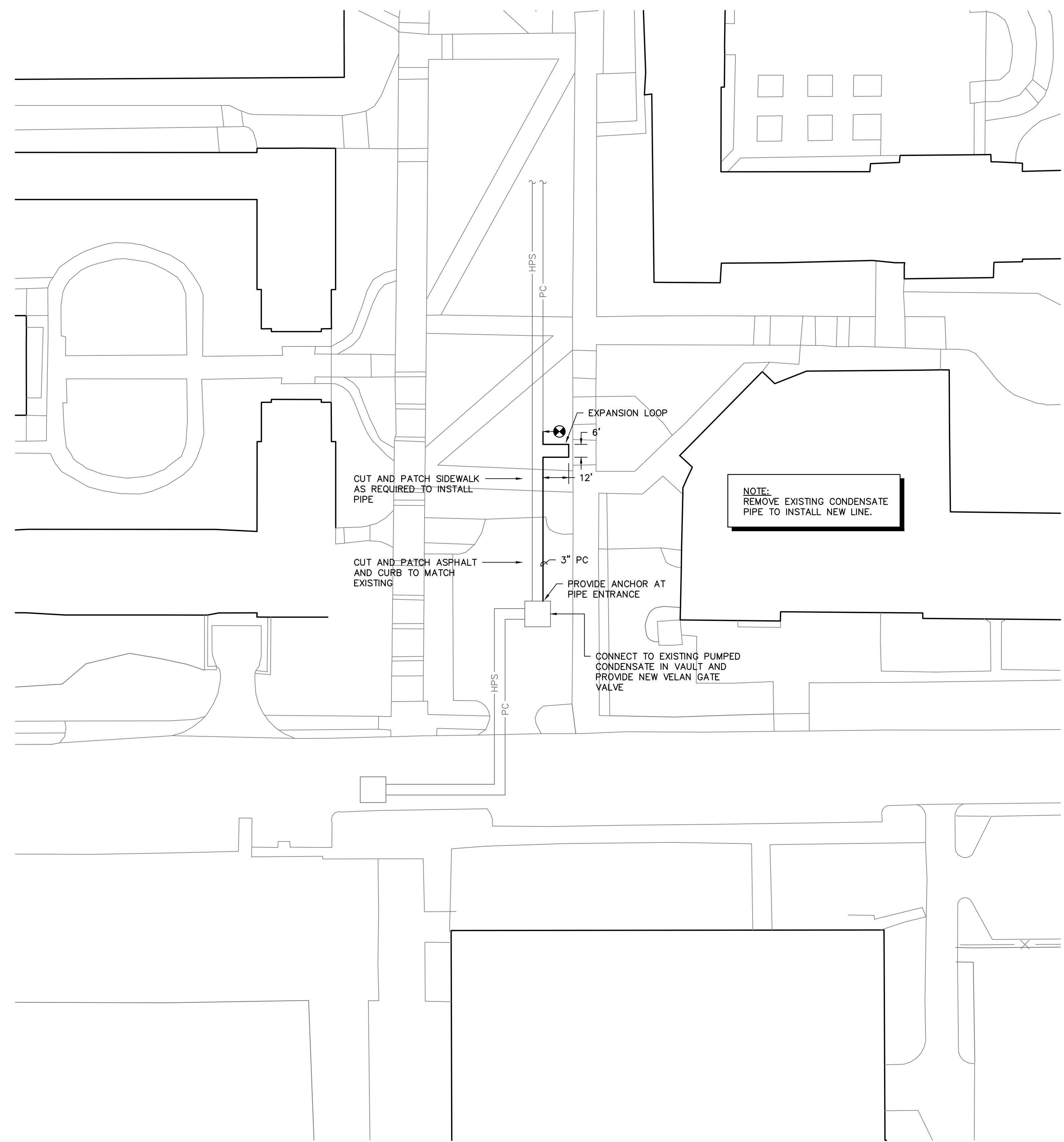
DBA Swygert & Assoc., Ltd. Telephone: (803) 791-9300
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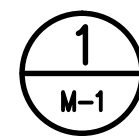
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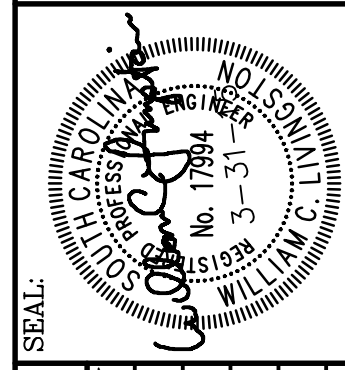
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1 SITE PLAN
 SCALE: 1" = 30'

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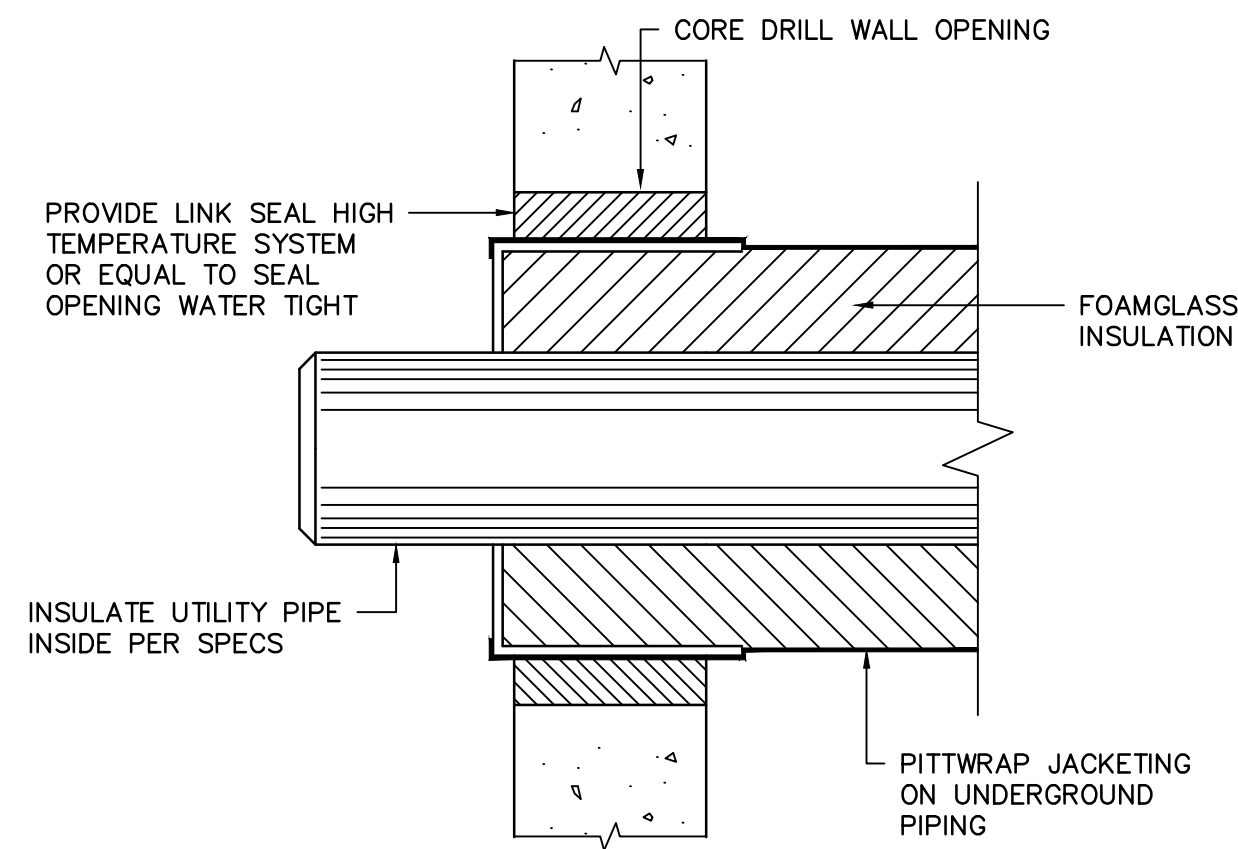
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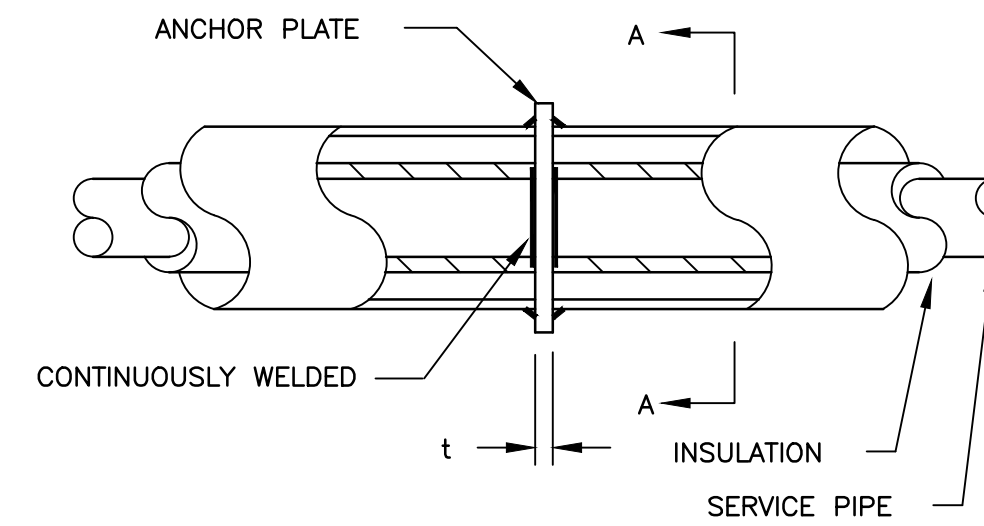
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UTILITY PIPE ENTRY DETAIL

NO SCALE



NOTE: DETAIL TYPICAL FOR TWO PIPES. ANCHOR ASSEMBLIES TO BE POSITIONED NO FURTHER THAN 5' FROM MANHOLE.

A = ANCHOR PLATE HEIGHT
= INSULATION O. D. + 1"
B = ANCHOR PLATE WIDTH
= INSULATION O. D. + 6"

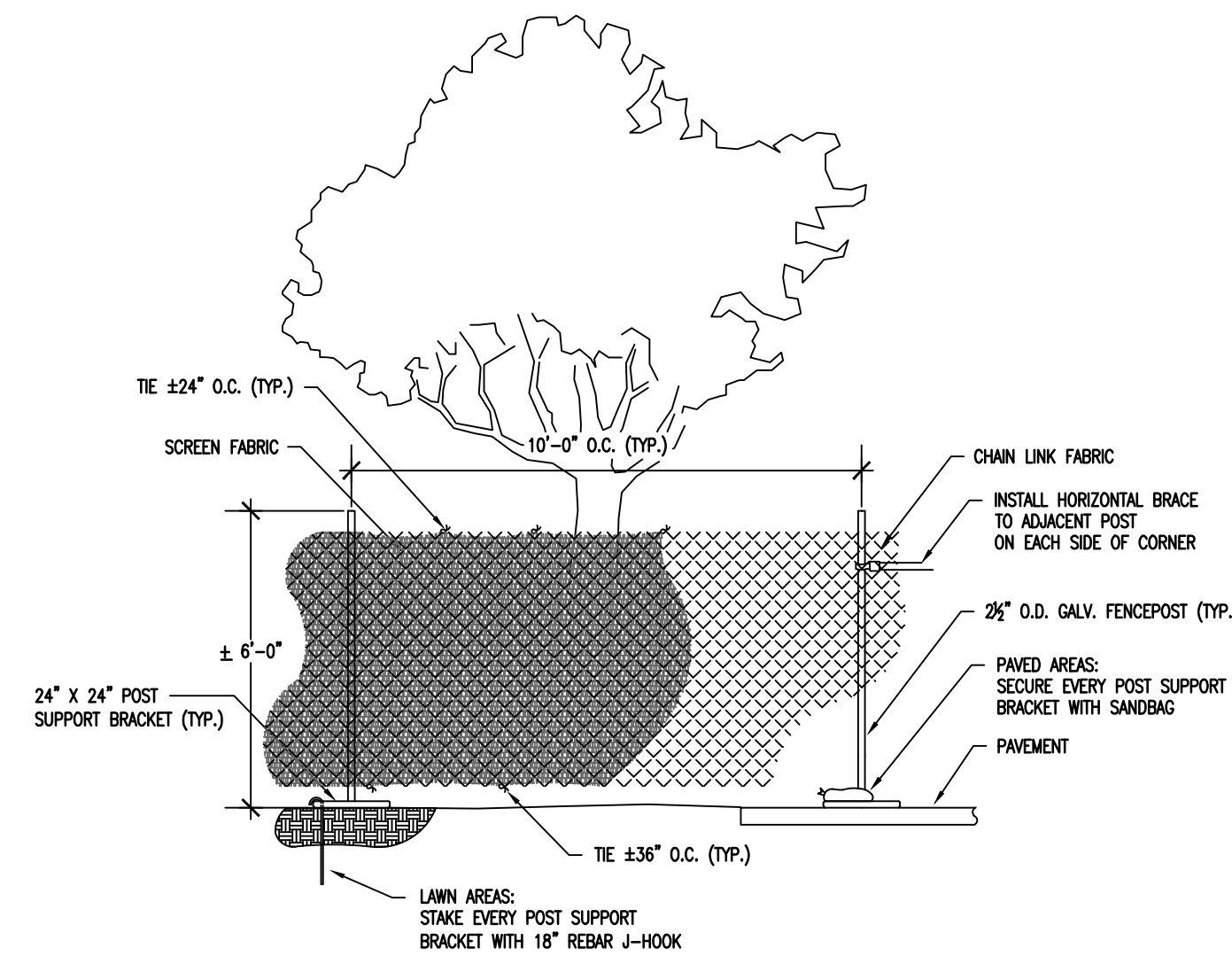
*A = ANCHOR PLATE THICKNESS
1/2" UP TO 22" INSULATION SIZE
3/4" FOR 24" AND LARGER INSULATION SIZES.

* SPECIAL PLATE THICKNESS REQUIRED FOR SYSTEMS W/ EXPANSION JOINTS

NOTE: A CONCRETE BLOCK SHALL BE CAST OVER THE PLATE AND INSULATION AND SHALL BE AT LEAST 30" IN LENGTH AND SHALL EXTEND A MINIMUM OF 9" BEYOND THE TOP AND BOTTOM OF ANCHOR PLATE.

STANDARD ANCHOR ASSEMBLY

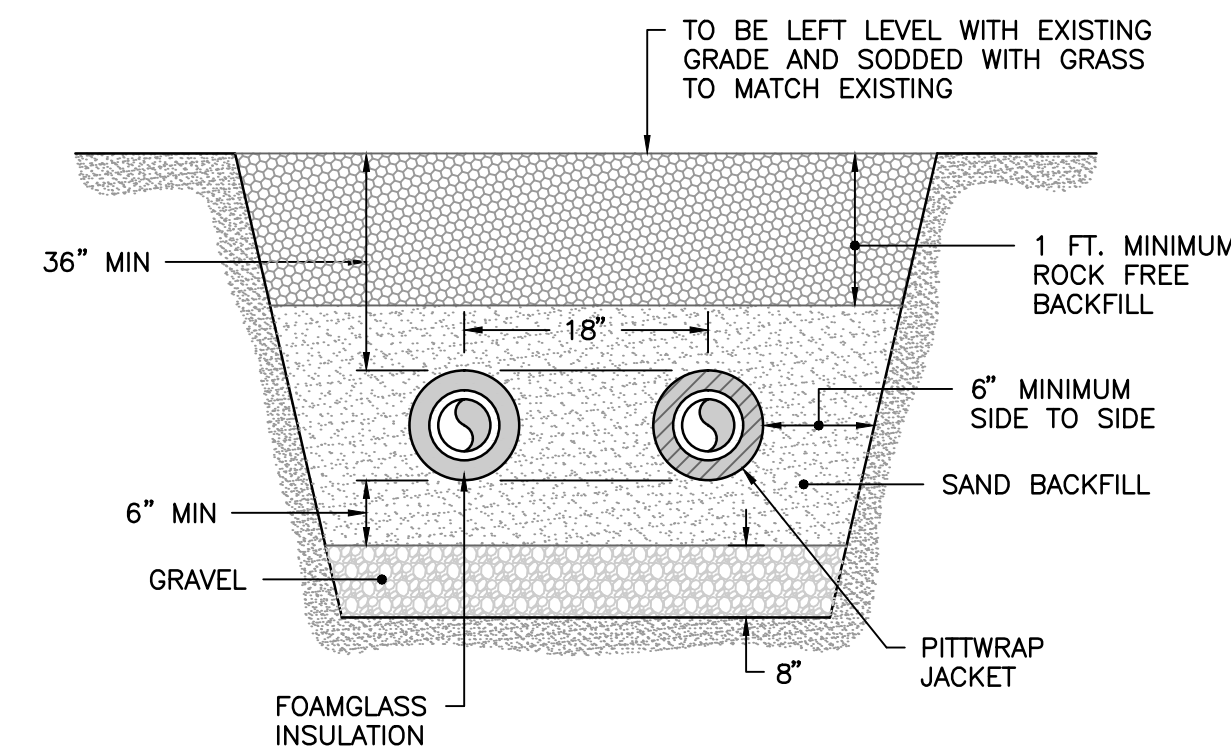
NO SCALE



- NOTES:
- TREE PROTECTION FENCING SHALL BE PLACED BETWEEN ALL EXISTING TREES AND AROUND PROJECT WORK AREA AS APPROVED BY USC.
 - SEE "USC SUPPLEMENTAL GENERAL CONDITIONS FOR CONSTRUCTION PROJECTS" FOR ADDITIONAL INFORMATION.
 - PROVIDE PROTECTION FENCE FOR ALL TREES TO REMAIN.
 - PROTECTION FENCING TO BE PLACED OUTSIDE OF DIAPHRANE OF TREE CANOPY UNLESS OTHERWISE APPROVED BY USC PROJECT MANAGER.
 - A 4" LAYER OF HARDWOOD MULCH SHALL BE PLACED OVER TREE PROTECTION AREA.
 - PROTECTION FENCING SHALL BE IN PLACE AND HARDWOOD MULCH PLACED PRIOR TO BEGINNING CONSTRUCTION.
 - REQUESTS FOR PAYMENT SHALL NOT BE APPROVED UNTIL PROTECTION FENCING AND MULCH IS IN PLACE.
 - LOCATION OF THE PROTECTION FENCING SHALL BE MARKED BY USC ARBORIST AND APPROVED BY USC PROJECT MANAGER BEFORE INSTALLATION. WHERE CONSTRUCTION IS LIKELY TO OCCUR WITHIN 5' OF PROPOSED LOCATION OF PROTECTION FENCING, CONTRACTOR SHALL HAVE LIMITS OF CONSTRUCTION MARKED BY SURVEY BEFORE PROTECTION FENCING IS INSTALLED.
 - SCREEN FABRIC SHALL BE DARK GREEN 85% OPAQUE, POLYETHYLENE KNIT MESH, UV STABILIZED WITH BURST STRENGTH OF AT LEAST 210 P.S.I.

WORK AREA SCREENING AND TREE PROTECTION FENCE PANEL DETAIL

NO SCALE



BACKFILL DETAIL

NO SCALE

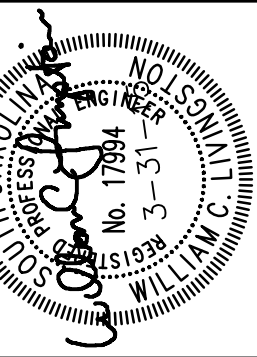
GENERAL NOTES

- DO NOT SCALE DRAWINGS. VERIFY ALL REQUIRED INFORMATION IN THE FIELD BY VISITING SITE PRIOR TO SUBMITTING BID.
- EXACT ROUTING OF PIPING SHALL BE SET IN FIELD TO MINIMIZE CONFLICTS WITH ALL ABOVE AND UNDERGROUND STRUCTURES, TREES, FENCES, WALKS, WALLS, AND UTILITIES.
- ALL PIPING IS SHOWN DIAGRAMMATIC. HOWEVER, CONTRACTOR SHALL PROVIDE ALL REQUIRED FITTINGS, PIPING, AND INSULATION FOR ALL OFFSETS AND/OR CHANGES IN ELEVATIONS. WHERE NECESSARY DUE TO INTERFERENCE, CONTRACTOR SHALL MODIFY EXISTING PIPING, EQUIPMENT, ETC.
- ALL VALVES AND SPECIALTIES SHALL BE LINE SIZE UNLESS INDICATED OTHERWISE ON DRAWINGS.
- ALL STEAM AND PUMPED CONDENSATE SHALL PITCH DOWN A MINIMUM OF ONE INCH PER FIFTY FEET.
- ALL OPENINGS THROUGH EXISTING STRUCTURES SHALL BE CORE DRILLED.
- COLD SPRING ALL STEAM LINES FIFTY (50) PERCENT.
- WHERE PIPING ENTERS MANHOLE CONSTRUCT ENTRY AS REQUIRED. ALL PIPES TO BE SLEEVED AND LINK SEALED TO MAKE WATERTIGHT.
- ALL PIPING AND FITTINGS IN MANHOLES TO BE INSULATED, SEE SPECIFICATIONS.
- CONTRACTOR SHALL COORDINATE AND OBTAIN APPROVAL FROM OWNER FOR INTERRUPTIONS AND CONNECTIONS TO EXISTING UTILITY SYSTEMS.
- CONTRACTOR SHALL COORDINATE TREE AND LANDSCAPING REPLACEMENT WITH USC. IN GENERAL USC WILL REPLACE SMALL TREES THAT ARE NOTED TO BE REPLACED. CONTRACTOR IS RESPONSIBLE FOR SOD REPLACEMENT.
- CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF ALL BRICK PAVERS TO MATCH THE EXISTING CONDITION.
- CONTRACTOR SHALL CONTACT PALMETTO UTILITY PROTECTION SERVICES TO LOCATE UTILITIES PRIOR TO DIGGING. INFORMATION OBTAINED FROM PALMETTO UTILITY PROTECTION SERVICES AND DURING DIGGING SHALL BE INDICATED ON THE AS-BUILT DRAWINGS.
- CONSTRUCT TEMPORARY FENCING AROUND PROJECT AREA TO PROTECT THE SITE AND PEDESTRIANS.

LEGEND

| SYMBOL | DESCRIPTION |
|--------|---|
| ⌒—S—⌒ | NEW HIGH PRESSURE STEAM LINE |
| ⌒—PC—⌒ | NEW PUMPED CONDENSATE LINE |
| ⌒—---⌒ | EXISTING PIPE TO BE REMOVED OR ABANDONED |
| ⌒—PC—⌒ | EXISTING PUMPED CONDENSATE LINE |
| ⌒—S—⌒ | EXISTING HIGH PRESSURE STEAM LINE |
| ⌒—GC—⌒ | EXISTING GRAVITY CONDENSATE LINE |
| ⌒—CR—⌒ | EXISTING CHILLED WATER RETURN LINE |
| ⌒—CS—⌒ | EXISTING CHILLED WATER SUPPLY LINE |
| ⌒—E—⌒ | EXISTING HIGH VOLTAGE ELECTRICAL LINE |
| ⌒—C—⌒ | EXISTING COMMUNICATIONS LINE |
| ⌒—EC—⌒ | EXISTING ELECTRICAL AND COMMUNICATIONS PRIMARY DUCT |
| ⌒—SS—⌒ | EXISTING SANITARY SEWER LINE |
| ⌒—HG—⌒ | EXISTING HIGH PRESSURE GAS LINE |
| ⌒—LG—⌒ | EXISTING LOW PRESSURE GAS LINE |
| ⌒—SD—⌒ | EXISTING STORM DRAIN LINE |
| ⌒—⊗—⌒ | VELAN GATE VALVE, SEE SPECS |
| ⊗ | CONNECTION POINT OF NEW TO EXISTING |

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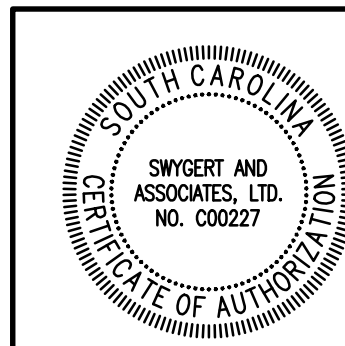
SHEET:

M-2

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