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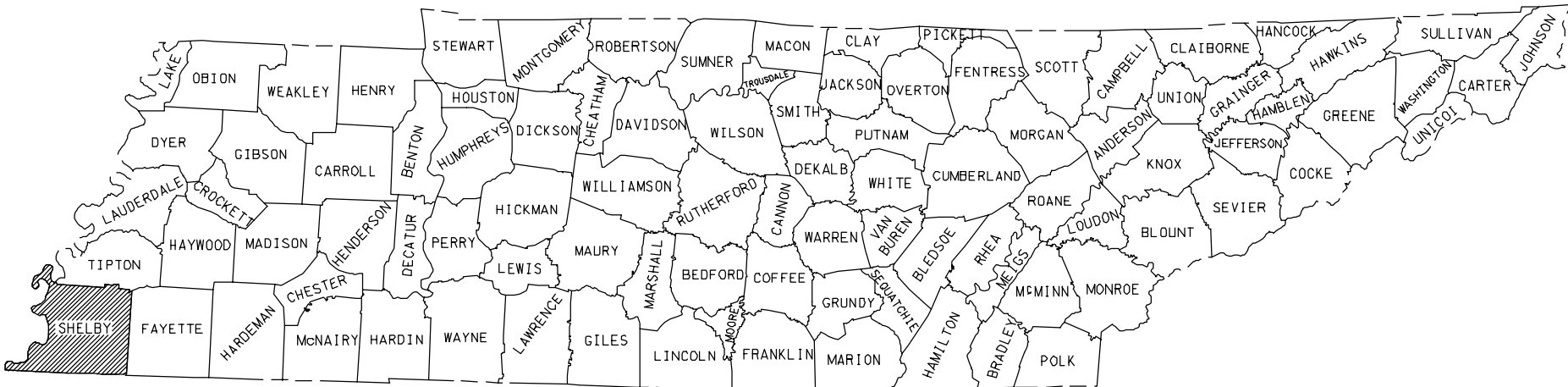
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING

SHELBY COUNTY
CONSTRUCTION

STREETSCAPE IMPROVEMENTS
INTERSECTION OF BROOKS ROAD
AND ELVIS PRESLEY BOULEVARD

LOCALLY MANAGED PROJECT
TDOT PIN NUMBER 105525.44

TENN.	YEAR	SHEET NO.
	2015	1
FED. AID PROJ. NO.	STP-EN-9409(161)	
STATE PROJ. NO.	79LPLM-F3-053	



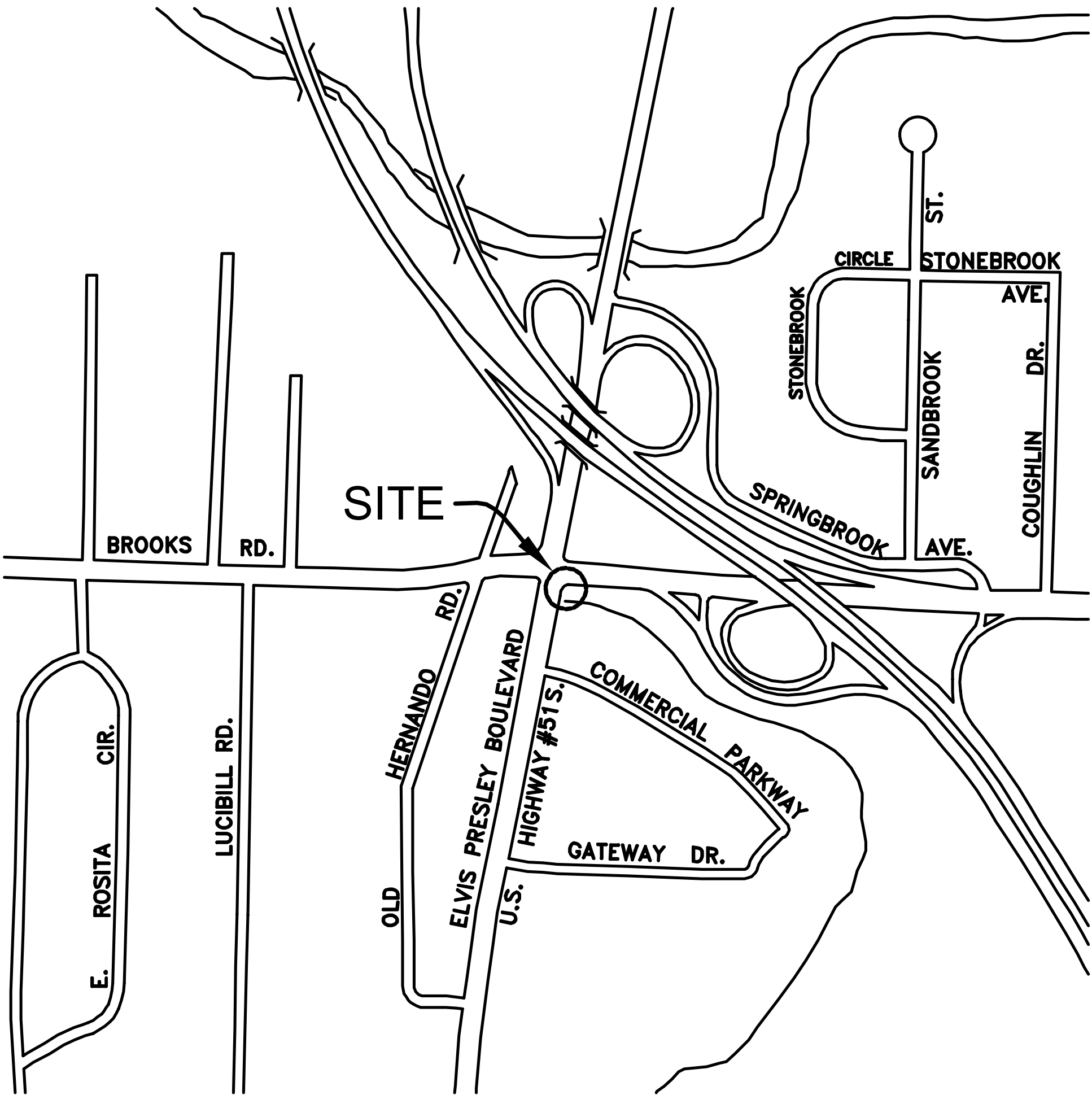
THIS PROJECT DOES NOT REQUIRE
RIGHT OF WAY ACQUISITION OR EASEMENTS



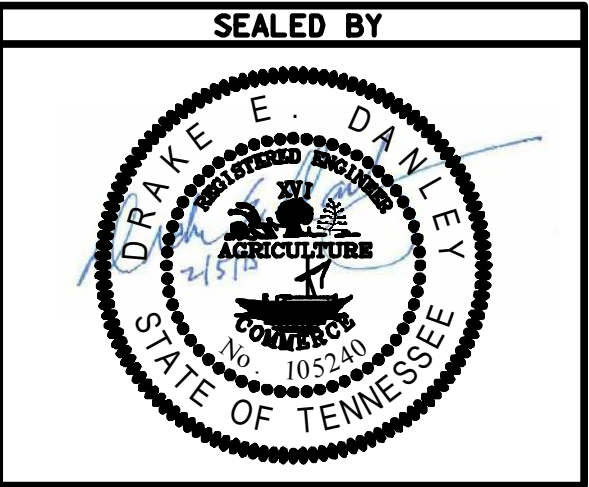
SPECIAL NOTES

PROPOSALS MAY BE REJECTED IF ANY OF THE UNIT PRICES CONTAINED THEREIN ARE OBVIOUSLY UNBALANCED, EITHER EXCESSIVE OR BELOW THE REASONABLE COST ANALYSIS VALUE.

THIS PROJECT TO BE CONSTRUCTED UNDER THE STANDARD SPECIFICATIONS OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION DATED JANUARY 1, 2015 AND ADDITIONAL SPECIFICATIONS AND SPECIAL PROVISIONS CONTAINED IN THE PLANS AND IN THE PROPOSAL CONTRACT.



SCALE: 1"= 500'



OWNER

SHELBY COUNTY
6463 HALEY ROAD
BUILDING 10
MEMPHIS, TENNESSEE 38134
(901) 222-7705

CONTACT: DARREN SANDERS

ENGINEER

KIMLEY-HORN AND ASSOCIATES, INC.
6625 LENOX PARK DRIVE
SUITE 117
MEMPHIS, TENNESSEE 38115
(901) 374-9109

CONTACT: DRAKE DANLEY

SURVEYOR

THY, INC.
1780 MORIAH WOODS BLVD
SUITE 1
MEMPHIS, TENNESSEE 38117
(901) 362-3300

CONTACT: KENNETH YOUNG

APPROVED:

COUNTY ENGINEER

DATE:

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2015	STP-EN-9409(1 61)	2

ESTIMATED ROADWAY QUANTITIES			
ITEM NO.	DESCRIPTION	UNIT	QUANTITY
203-01	ROAD AND DRAINAGE EXCAVATION (UNCLASSIFIED)	CY	50
203-04	PLACING AND SPREADING TOPSOIL	CY	5
① 209-08.03	TEMPORARY SILT FENCE (WITHOUT BACKING)	LF	60
① 209-09.43	CURB INLET PROTECTION (TYPE 4)	EA	1
303-10.01	MINERAL AGGREGATE (SIZE 57)	TON	45
602-02.04	STRUCTURAL STEEL (NO 4)	LB	900
602-02.05	STRUCTURAL STEEL (NO 5)	LB	1850
602-02.07	STRUCTURAL STEEL (NO 7)	LB	300
② 604-03.07	CLASS A CONCRETE (SIGN WALLS, PLANTER WALLS, SLABS AND FOOTINGS)	CY	35
③ 604-04.20	PAINTING CONCRETE SURFACES	SF	820
④ 714-01.65	EXTERIOR LIGHTING COMPLETE (WALL AND SIGN LIGHTING)	LS	1
717-01	MOBILIZATION	LS	1
730-05.01	ELECTRICAL SERVICE CONNECTION	LS	1
730-12.01	1" PVC PIPE	LF	10
801-03	WATER (SEEDING & SODDING)	MG	1
801-06.10	SHREDDED HARDWOOD MULCH (LANDSCAPE)	CY	2
802-01.10	TREES (EQUISETUM) (HORSETAIL) (1 GAL)	EA	44
802-01.11	TREES (LAGERSTROEMIA INDICA "TUSCARORA") (CRAPE MYRTLE) (6-8')	EA	6
803-01	SODDING (NEW SOD)	SY	70
⑤ 999-99.02	THREE-DIMENSIONAL STAINLESS STEEL LETTERS (19 - 20" H)	LS	1
⑥ 999-99.03	ALUMINUM LETTERING (8 - 7" H)	LS	1
⑦ 999-99.04	CMU WALL	LS	1

FOOTNOTES

- ① SEE SUBSECTION 209.07 OF THE STANDARD SPECIFICATIONS FOR MAINTENANCE REPLACEMENT.
- ② INCLUDES ALL MATERIALS REQUIRED FOR INSTALLING CONCRETE WALLS, PLANTER WALLS, SLABS AND FOOTINGS. INCLUDES EXPANSION JOINTS.
- ③ INCLUDES ALL LABOR AND MATERIALS REQUIRED FOR PAINTING CONCRETE WALLS, SLABS, AND EXPOSED FOOTINGS WITH THREE COATS OF EXTERIOR PAINT.
- ④ INCLUDES ALL LABOR AND MATERIALS REQUIRED FOR INSTALLATION OF A FULLY FUNCTIONAL EXTERNAL LIGHTING SYSTEM AS DETAILED IN THE PLANS. NO ADDITIONAL PAYMENT WILL BE MADE FOR CONDUIT, WIRE, METERS, CLAMPS, ETC.
- ⑤ INCLUDES ALL LABOR AND MATERIALS REQUIRED FOR INSTALLATION OF SIGNAGE LETTERING "WELCOME TO WHITEHAVEN." SEE INSET 1, DETAIL 4, SHEET 5.
- ⑥ INCLUDES ALL LABOR AND MATERIALS REQUIRED FOR INSTALLATION OF SIGNAGE LETTERING "EST. 1870." SEE DETAIL 2, SHEET 5.
- ⑦ INCLUDES ALL LABOR AND MATERIALS REQUIRED FOR INSTALLATION OF CMU WALL, INCLUDING BLOCK, MORTAR, HORIZONTAL REINFORCEMENT, JOINT SEALANT, AND CONTROL JOINT FILLER.

STANDARD DRAWINGS

DWG. NO.	REV.	DESCRIPTION
ROADWAY DESIGN STANDARDS		
RD-A-1	12-18-99	STANDARD ABBREVIATIONS
RD-L-1	10-26-94	STANDARD LEGEND
RD-L-2	09-05-01	STANDARD LEGEND FOR UTILITY INSTALLATIONS
RD-L-5	05-01-08	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
RD-L-6	03-30-10	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
RD-L-7	05-24-12	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL

EROSION PREVENTION AND SEDIMENT CONTROL		
EC-STR-3B	08-01-12	SILT FENCE
EC-STR-39A	08-01-12	CURB INLET PROTECTION TYPE 3 & 4

GENERAL NOTES

GRADING

1. ANY AREA THAT IS DISTURBED OUTSIDE LIMITS OF CONSTRUCTION DURING THE LIFE OF THIS PROJECT SHALL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE.
2. THE CONTRACTOR SHALL NOT DISPOSE OF ANY MATERIAL EITHER ON OR OFF STATE-OWNED R.O.W. IN A REGULATORY FLOOD WAY AS DEFINED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY WITHOUT APPROVAL BY SAME. ALL MATERIAL SHALL BE DISPOSED OF IN UPLAND (NON-WETLAND) AREAS AND ABOVE ORDINARY HIGH WATER OF ANY ADJACENT WATERCOURSE. THIS DOES NOT ELIMINATE THE NEED TO OBTAIN ANY OTHER LICENSES OR PERMITS THAT MAY BE REQUIRED BY ANY OTHER FEDERAL, STATE OR LOCAL AGENCY.

SEEDING AND SODDING

1. SOD SHALL BE PLACED AT LOCATIONS SHOWN ON THE PLANS TO PREVENT DAMAGE TO ADJACENT FACILITIES AND PROPERTY DUE TO EROSION ON ALL NEWLY GRADED CUT AND FILL SLOPES AS WORK PROGRESSES.

UTILITIES

1. THE LOCATIONS OF UTILITIES SHOWN WITHIN THESE PLANS ARE APPROXIMATE ONLY. EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD BY CONTACTING THE UTILITY COMPANIES INVOLVED. NOTIFICATION BY CALLING THE TENNESSEE ONE CALL SYSTEM, INC., AT 1-800-351-1111 AS REQUIRED BY TCA 65-31-106 WILL BE REQUIRED.
2. UNLESS OTHERWISE NOTED, ALL UTILITY ADJUSTMENTS WILL BE PERFORMED BY THE UTILITY OR IT'S REPRESENTATIVE. THE CONTRACTOR AND UTILITY OWNERS WILL BE REQUIRED TO COOPERATE WITH EACH OTHER IN ORDER TO EXPEDITE THE WORK REQUIRED BY THIS CONTRACT. ON CONTRACTS WHERE CONSTRUCTION STAKES, LINES, AND GRADES ARE CONTRACT ITEMS, THE CONTRACTOR WILL BE REQUIRED TO PROVIDE RIGHT-OF-WAY OR SLOPE STAKES, DITCH OR STREAM BED GRADES, OR OTHER ESSENTIAL SURVEY STAKING TO PREVENT CONFLICTS WITH THE HIGHWAY CONSTRUCTION. FREQUENTLY, THIS WILL BE REQUIRED AS THE FIRST ITEM OF WORK AND AT ANY LOCATION ON THE PROJECT DIRECTED BY THE ENGINEER.
3. THE CONTRACTOR WILL PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFEGUARD EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION OF THIS PROJECT. IN THE EVENT THAT SPECIAL EQUIPMENT IS REQUIRED TO WORK OVER AND AROUND THE UTILITIES, THE CONTRACTOR WILL BE REQUIRED TO FURNISH SUCH EQUIPMENT. THE COST OF PROTECTING UTILITIES FROM DAMAGE AND FURNISHING SPECIAL EQUIPMENT WILL BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS OF CONSTRUCTION.
4. PRIOR TO SUBMITTING HIS BID, THE CONTRACTOR WILL BE SOLELY RESPONSIBLE FOR CONTACTING OWNERS OF ALL AFFECTED UTILITIES IN ORDER TO DETERMINE THE EXTENT TO WHICH UTILITY RELOCATIONS AND/OR ADJUSTMENTS WILL HAVE UPON THE SCHEDULE OF WORK FOR THE PROJECT. WHILE SOME WORK MAY BE REQUIRED 'AROUND' UTILITY FACILITIES THAT WILL REMAIN IN PLACE, OTHER UTILITY FACILITIES MAY NEED TO BE ADJUSTED CONCURRENTLY WITH THE CONTRACTOR'S OPERATIONS. ADVANCE CLEAR CUTTING MAY BE REQUIRED BY THE ENGINEER AT ANY LOCATION WHERE CLEARING IS CALLED FOR IN THE SPECIFICATIONS AND CLEAR CUTTING IS NECESSARY FOR A UTILITY RELOCATION. ANY ADDITIONAL COST WILL BE INCLUDED IN THE UNIT PRICE BID FOR THE CLEARING ITEM SPECIFIED IN THE PLANS.
5. THE CONTRACTOR SHALL NOTIFY EACH INDIVIDUAL UTILITY OWNER OF HIS PLAN OF OPERATION IN THE AREA OF THE UTILITIES. PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL CONTACT THE UTILITY OWNERS AND REQUEST THEM TO PROPERLY LOCATE THEIR RESPECTIVE UTILITY ON THE GROUND. THIS NOTIFICATION SHALL BE GIVEN AT LEAST THREE (3) BUSINESS DAYS PRIOR TO COMMENCEMENT OF OPERATIONS AROUND THE UTILITY IN ACCORDANCE WITH TCA 65-31-106.

EROSION PREVENTION AND SEDIMENT CONTROL

DISTURBED AREA

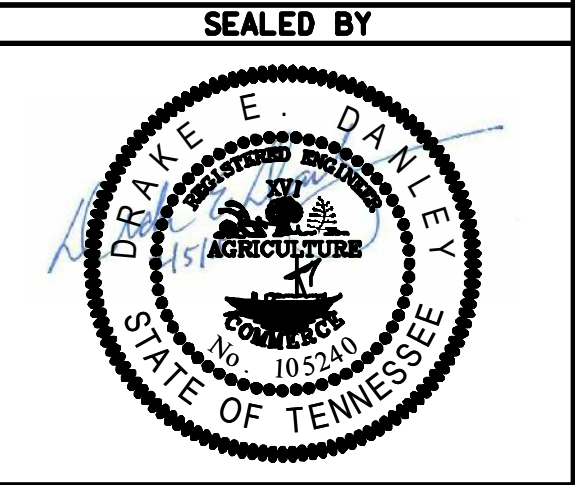
1. ALL DISTURBED AREAS SHALL BE PROPERLY STABILIZED AS SOON AS PRACTICABLE. PRIORITY SHALL BE GIVEN TO FINISHING OPERATIONS AND PERMANENT EPSC MEASURES OVER TEMPORARY EPSC MEASURES ON ALL PROJECTS.

SEDIMENT CONTROL

1. EPSC MEASURES SHALL BE INSTALLED AND FUNCTIONAL PRIOR TO ANY EARTH MOVING OPERATIONS, AND SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD.

STREAM/WETLAND

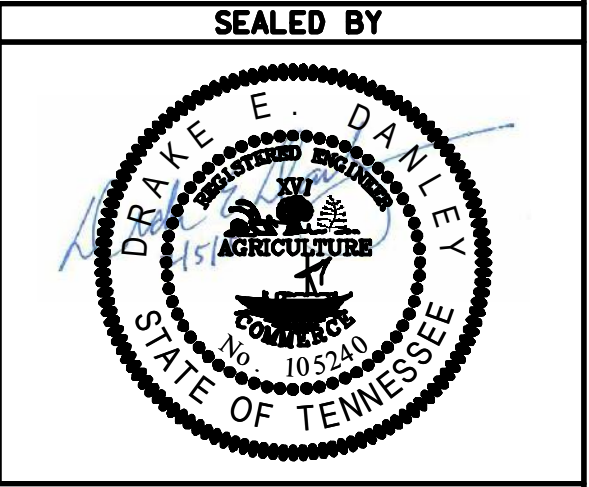
1. SOIL MATERIALS MUST BE PREVENTED FROM ENTERING WATERS OF THE STATE/U.S. EPSC MEASURES TO PROTECT WATER QUALITY MUST BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD. APPROPRIATE EPSC MEASURES MUST BE INSTALLED ALONG THE BASE OF ALL FILLS AND CUTS, ON THE DOWNHILL SIDE OF STOCKPILED SOIL, AND ALONG STREAM BANKS IN CLEARED AREAS TO PREVENT SEDIMENT MIGRATION INTO STREAMS IN ACCORDANCE WITH TDOT STANDARDS. THEY MUST BE INSTALLED ON THE CONTOUR, ENTRENCHED AND STAKED, AND EXTEND THE WIDTH OF THE AREA TO BE CLEARED.
- INSPECTION, MAINTENANCE, REPAIR
1. EPSC CONTROLS WILL BE MAINTAINED IN ACCORDANCE WITH TDOT STANDARD DRAWINGS AND GOOD ENGINEERING PRACTICES.
- LITTER, DEBRIS, WASTE, PETROLEUM
1. THE CONTRACTOR SHALL ESTABLISH AND MAINTAIN A PROACTIVE METHOD TO PREVENT LITTER, CONSTRUCTION DEBRIS, AND CONSTRUCTION WASTES FROM ENTERING WATERS OF THE STATE/U.S. THESE MATERIALS WILL BE PICKED UP AND REMOVED FROM STORMWATER EXPOSURE PRIOR TO ANTICIPATED STORM EVENTS. AFTER USE, MATERIALS USED FOR EPSC WILL BE REMOVED FROM THE SITE.
2. THE CONTRACTOR SHALL TAKE APPROPRIATE STEPS TO ENSURE THAT PETROLEUM PRODUCTS OR OTHER CHEMICAL POLLUTANTS ARE PREVENTED FROM ENTERING WATERS OF THE STATE/U.S. ALL EQUIPMENT REFUELING, SERVICING, AND STAGING AREAS SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL LAWS, RULES, REGULATIONS, AND ORDINANCES, INCLUDING THOSE OF THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA). APPROPRIATE CONTAINMENT MEASURES FOR THESE AREAS SHALL BE USED. ALL SPILLS MUST BE REPORTED TO THE APPROPRIATE AGENCY, AND MEASURES SHALL BE TAKEN IMMEDIATELY TO PREVENT THE POLLUTION OF WATERS OF THE STATE/U.S., INCLUDING GROUNDWATER, SHOULD A SPILL OCCUR.



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ESTIMATED
QUANTITIES,
STANDARD
DRAWINGS AND
GENERAL NOTES

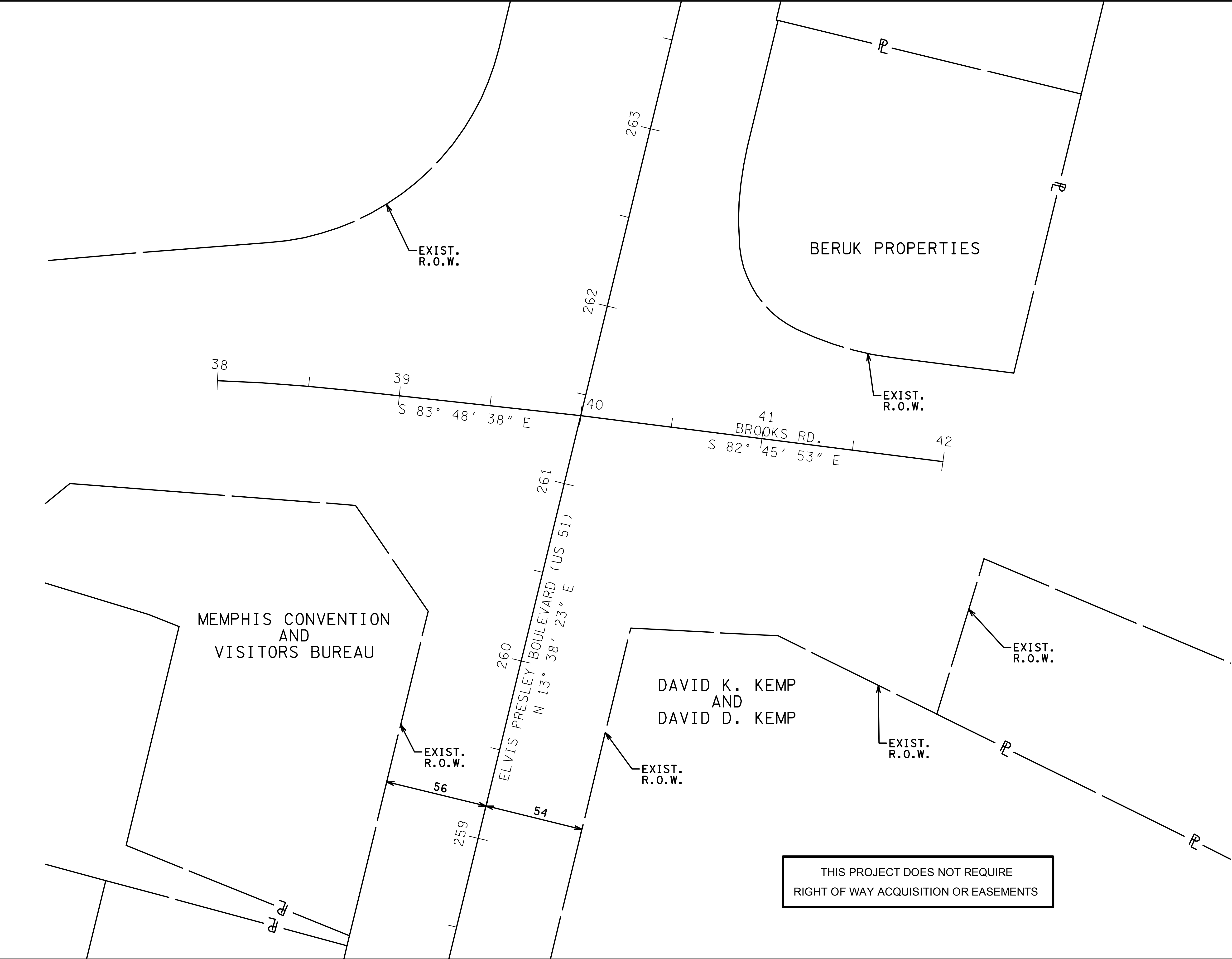
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2015	STP-EN-9409(161)	3



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPERTY
MAP

SCALE: 1"=10'

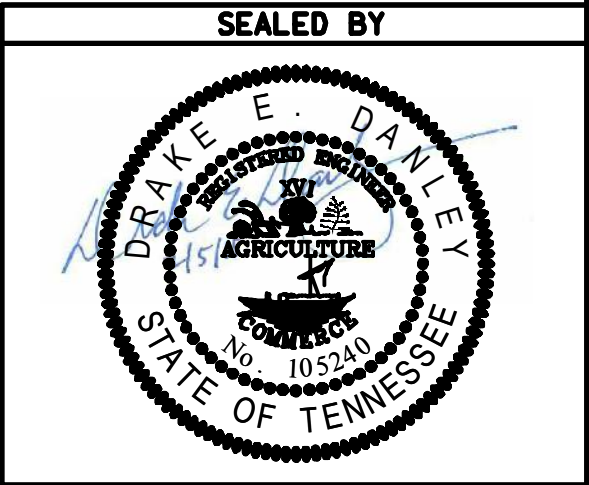
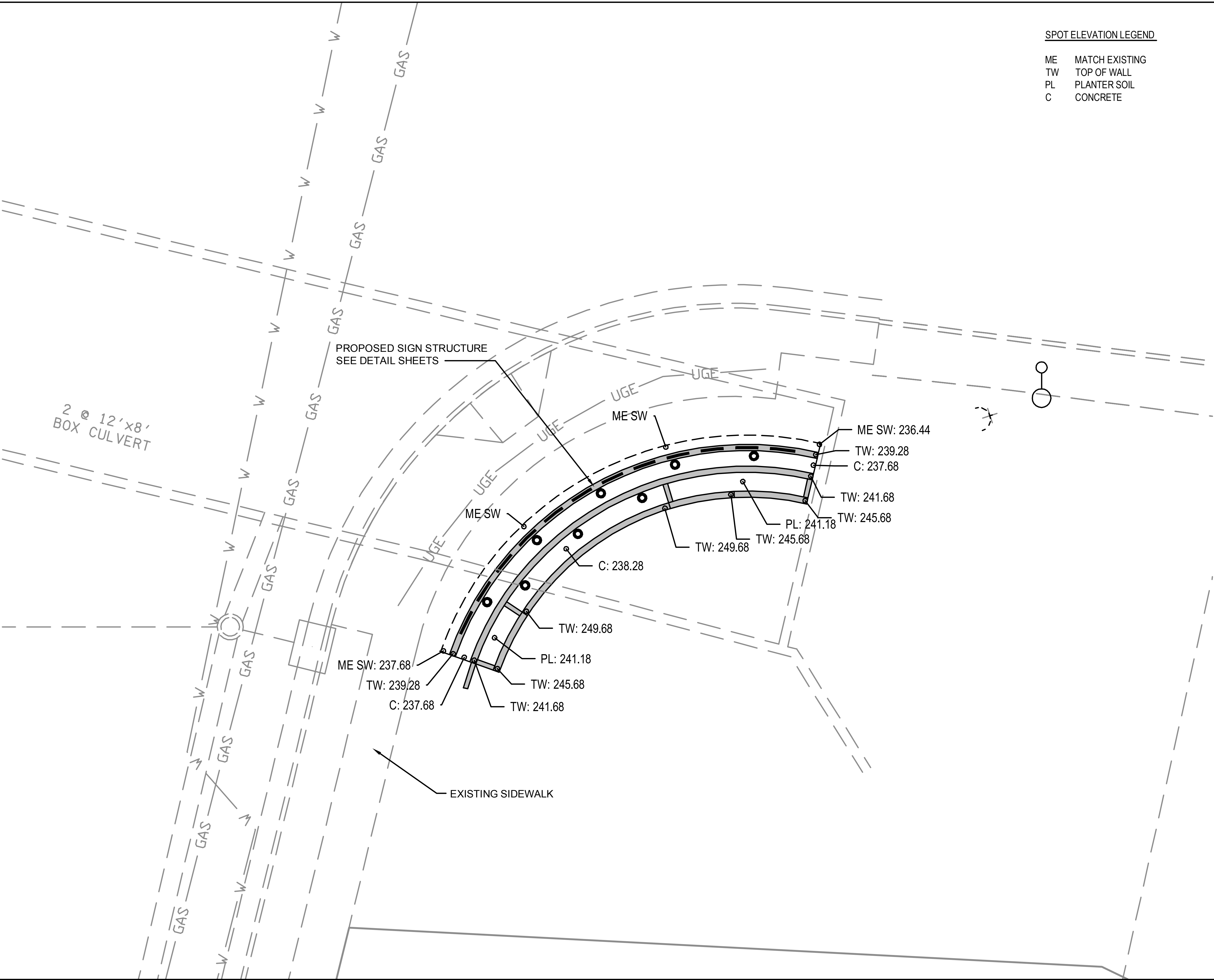
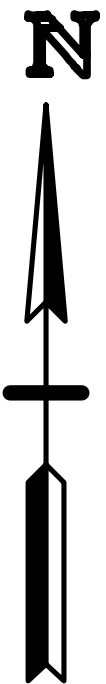


THIS PROJECT DOES NOT REQUIRE
RIGHT OF WAY ACQUISITION OR EASEMENTS

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2015	STP-EN-9409(1 61)	4A

SPOT ELEVATION LEGEND

- ME MATCH EXISTING
- TW TOP OF WALL
- PL PLANTER SOIL
- C CONCRETE



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

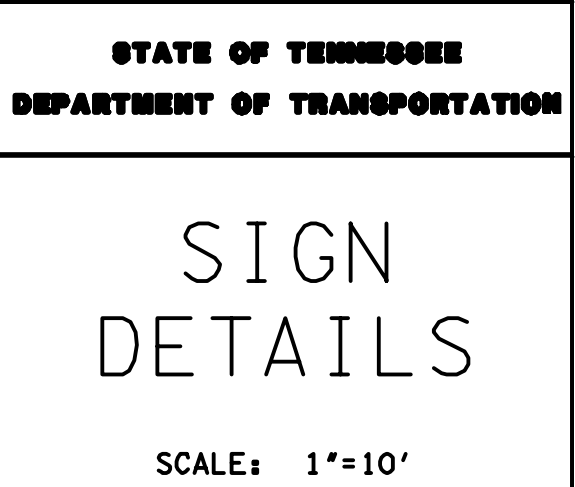
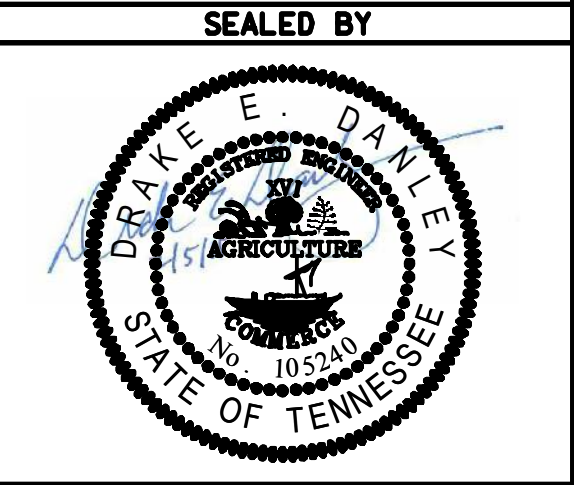
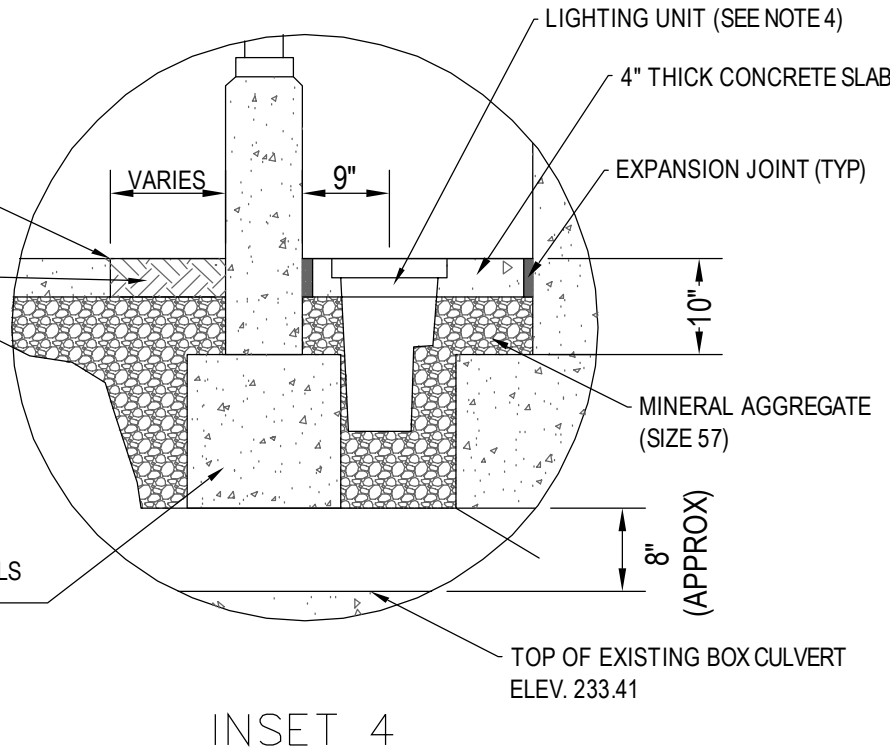
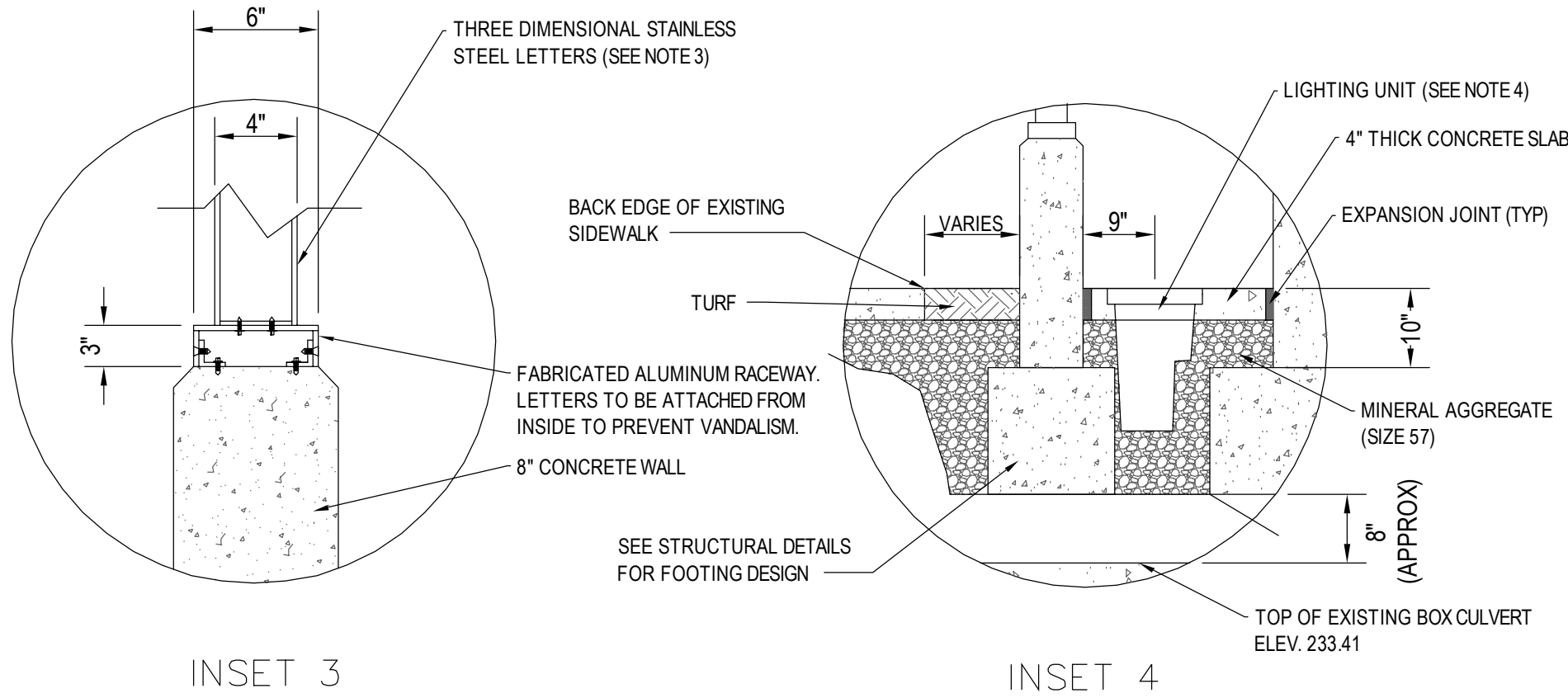
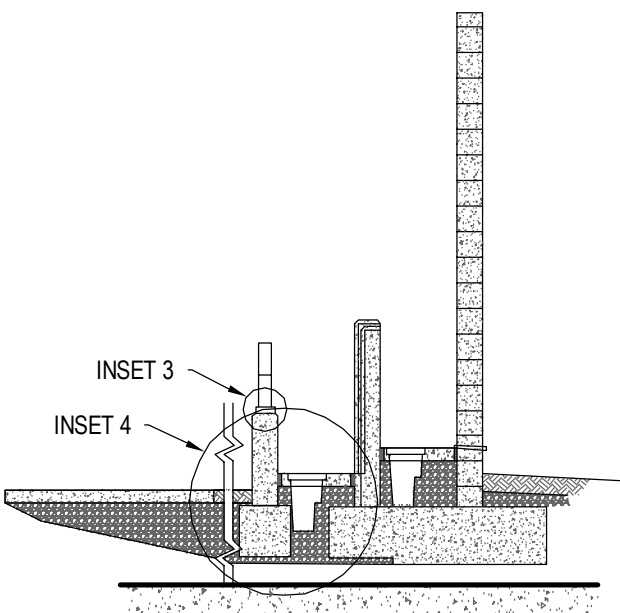
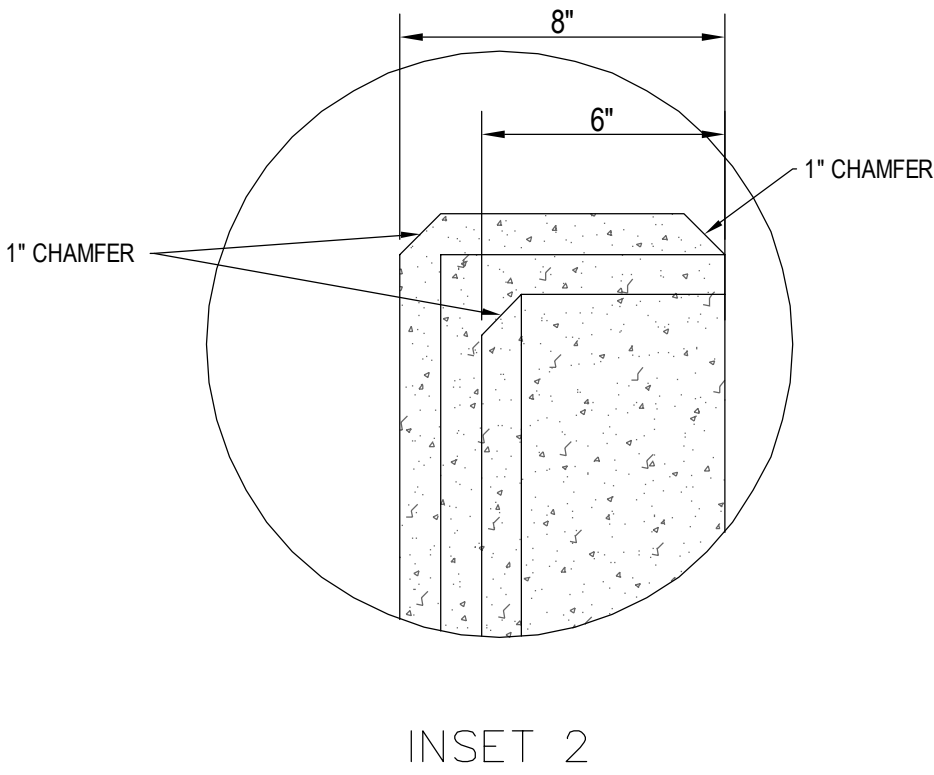
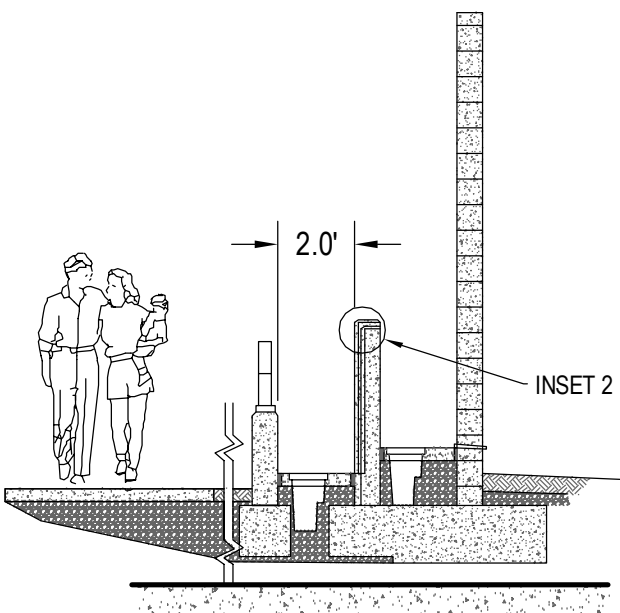
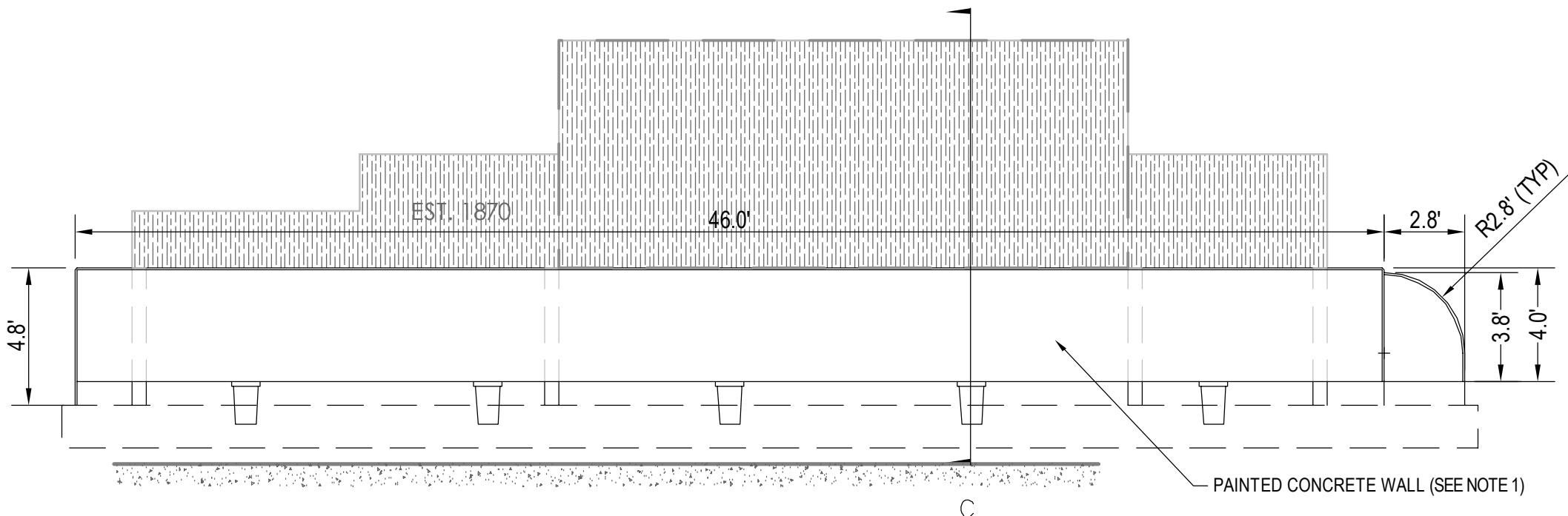
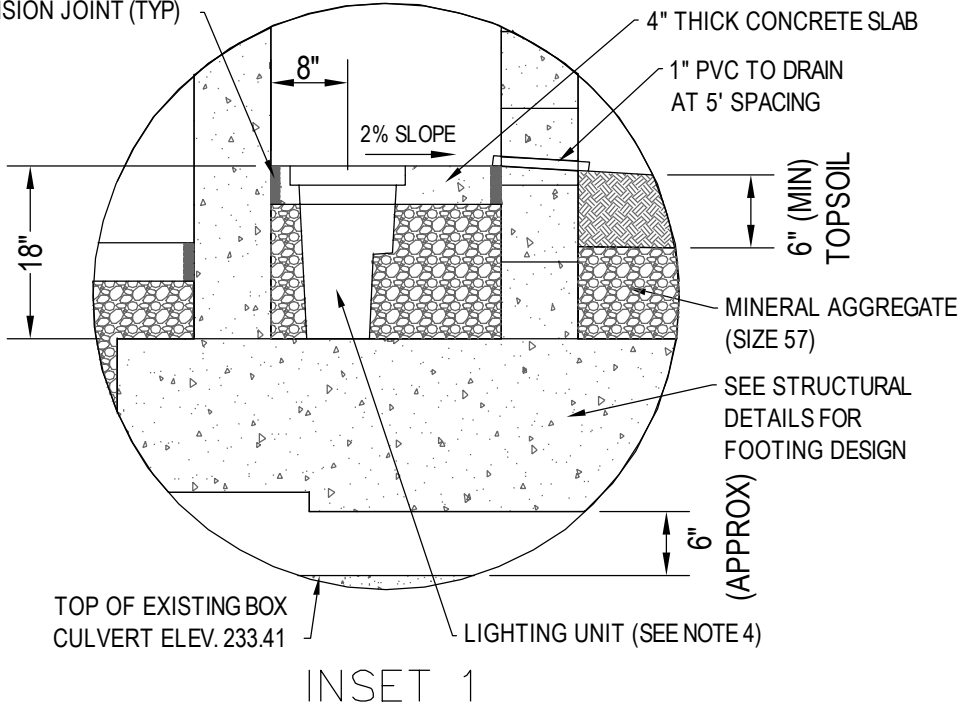
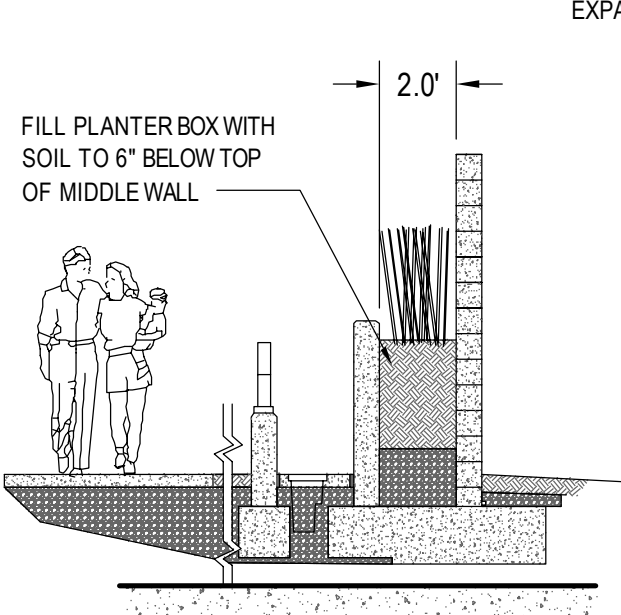
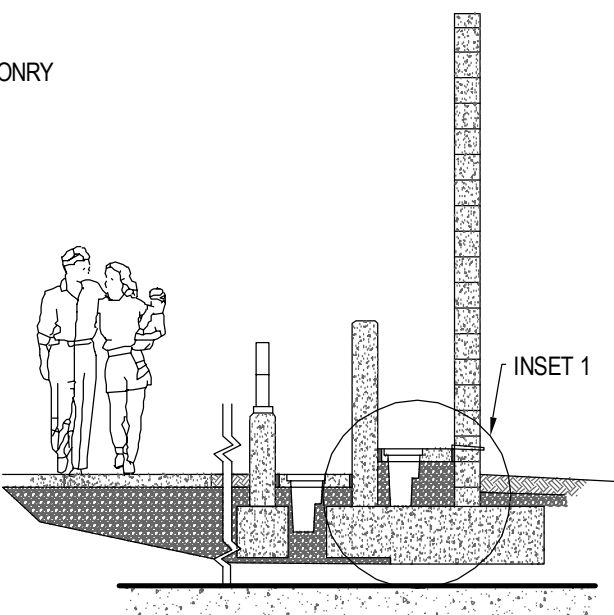
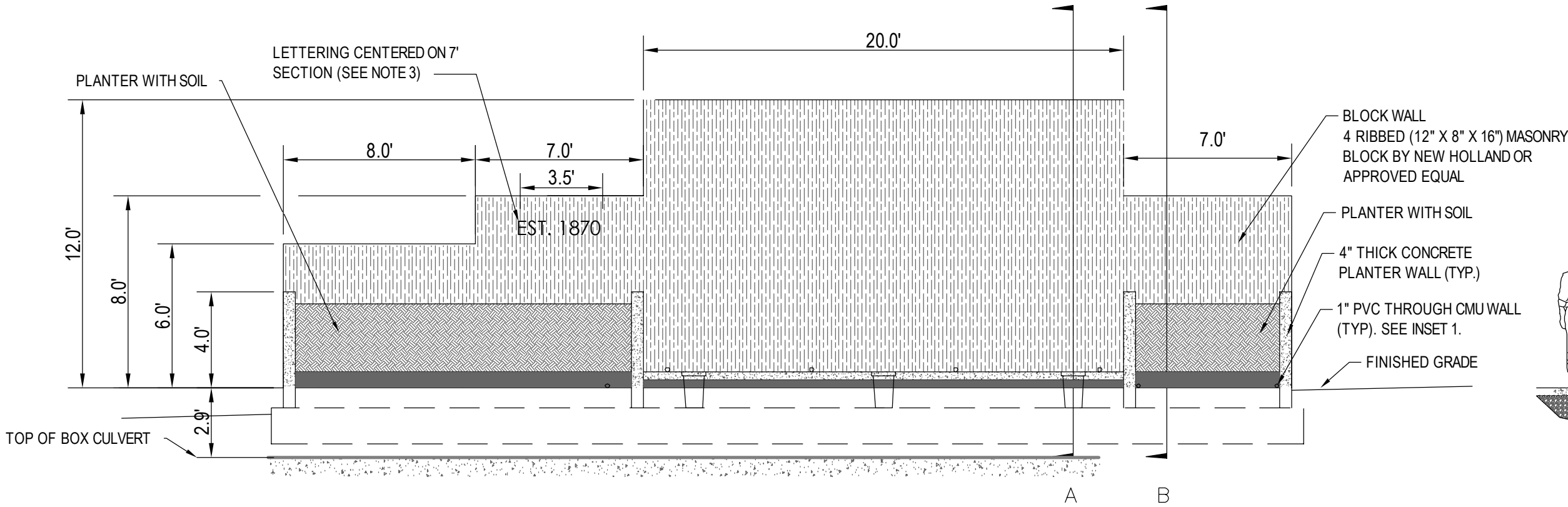
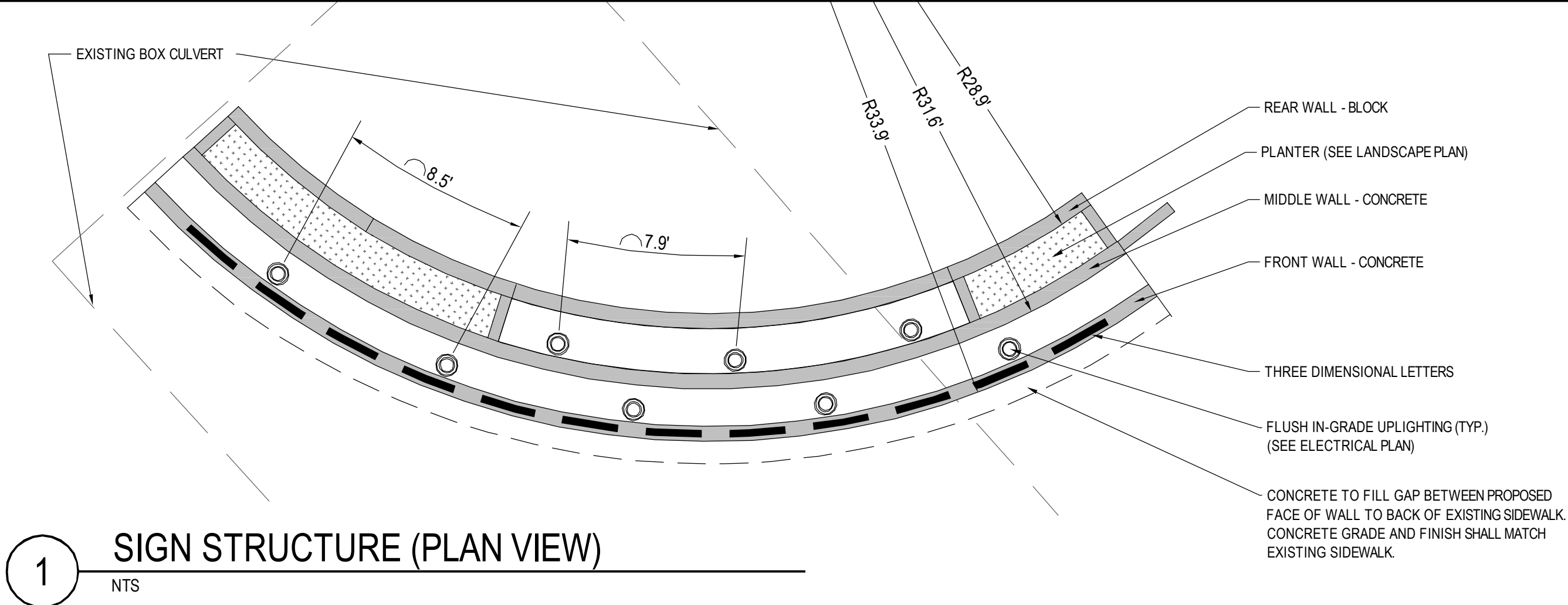
PROPOSED
LAYOUT

SCALE: 1"=10'

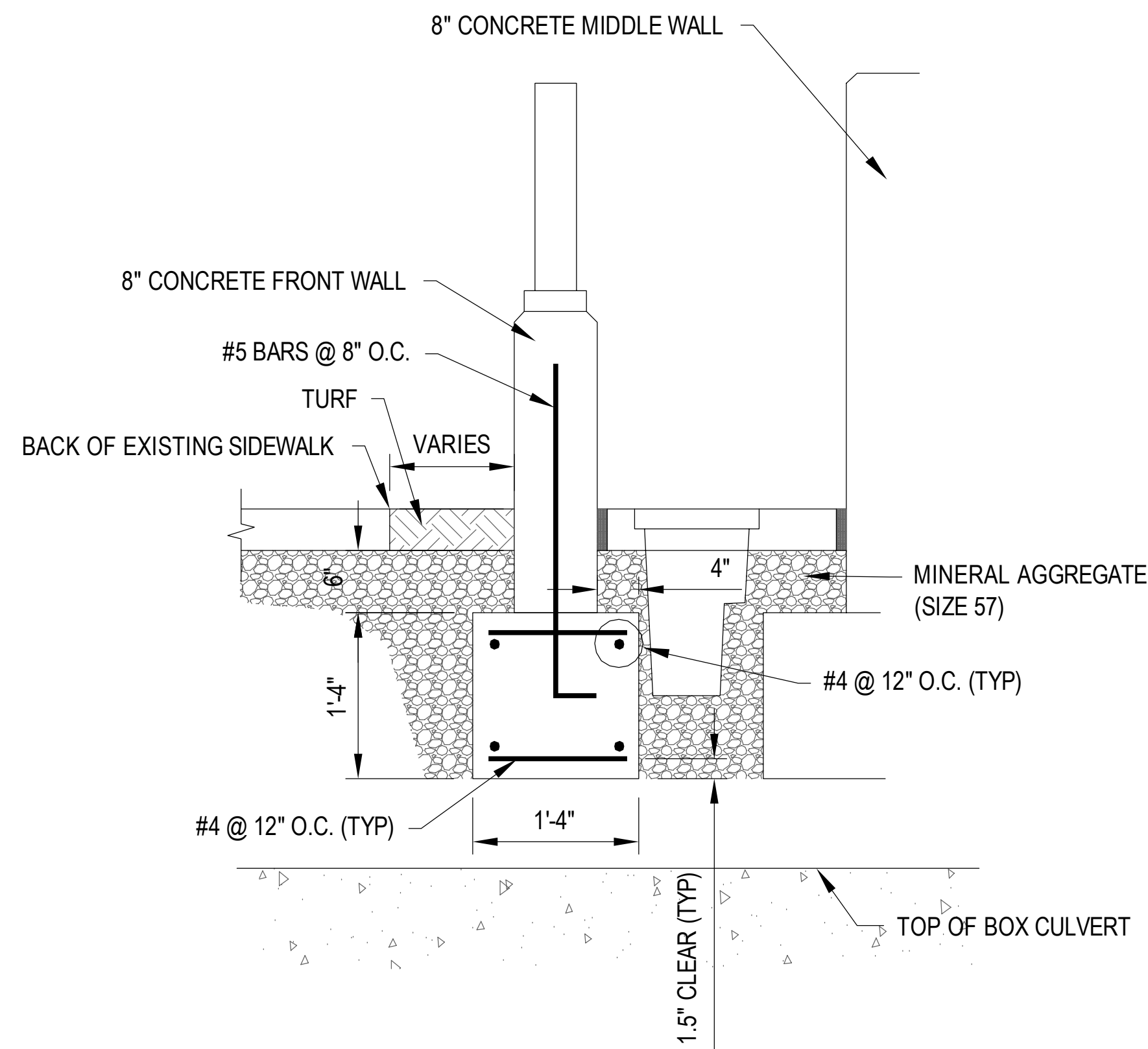
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2015	STP-EN-9409(1 61)	5

GENERAL NOTES

- PAINT COLOR TO MATCH EXISTING SIGN ON SOUTHWEST CORNER OF INTERSECTION. PAINT SHALL BE DESIGNED FOR EXTERIOR USE AND APPROVED BY ARCHITECT PRIOR TO APPLICATION. ALL POURED CONCRETE SURFACES SHALL BE PAINTED. REAR CMU WALL SHALL NOT BE PAINTED.
- LETTERING "EST. 1870" SHALL BE 7" IN HEIGHT, $\frac{1}{4}$ " THICK ALUMINUM LETTERS PAINTED WITH STUDS ATTACHED. LETTERS SHALL BE INSTALLED FLUSH WITH THE WALL USING SILICONE ADHESIVE. PAINT COLOR TO BE APPROVED BY ARCHITECT.
- LETTERING "WELCOME TO WHITEHAVEN" SHALL BE FABRICATED STAINLESS STEEL WITH CLOSED BACKS 20" IN HEIGHT. WELDS TO BE SMOOTH WITH NO EXPOSED SEEMS. LETTERS TO HAVE BRUSH FACES, RETURNS AND BACKS. LETTER DESIGN SHALL BE SIMILAR TO EXISTING LETTERS ON EXISTING SIGN ON SOUTHWEST CORNER OF THE INTERSECTION. SHOP DRAWINGS FOR EACH LETTER SHALL BE SUBMITTED TO THE ARCHITECT FOR APPROVAL.
- LIGHTING UNIT SHALL BE WET/DRY FLUSH IN-GRADE UP-LIGHTING, 100W METAL HALIDE, 120V TO MATCH EXISTING SIGN. UNITS SHALL BE AIMED AT WALL AWAY FROM STREET. ACCEPTABLE SUPPLIERS INCLUDE: (1) HOLOPHANE CATALOG # H910 B 100M 120 WVD FLC5 NONE LPI 34B, (2) HUBBELL OUTDOOR LIGHTING CATALOG # RU100P8, (3) KIM LIGHTING CATALOG # LTV722 WW 100PMH120 TR10/GM30, (4)APPROVED EQUAL.



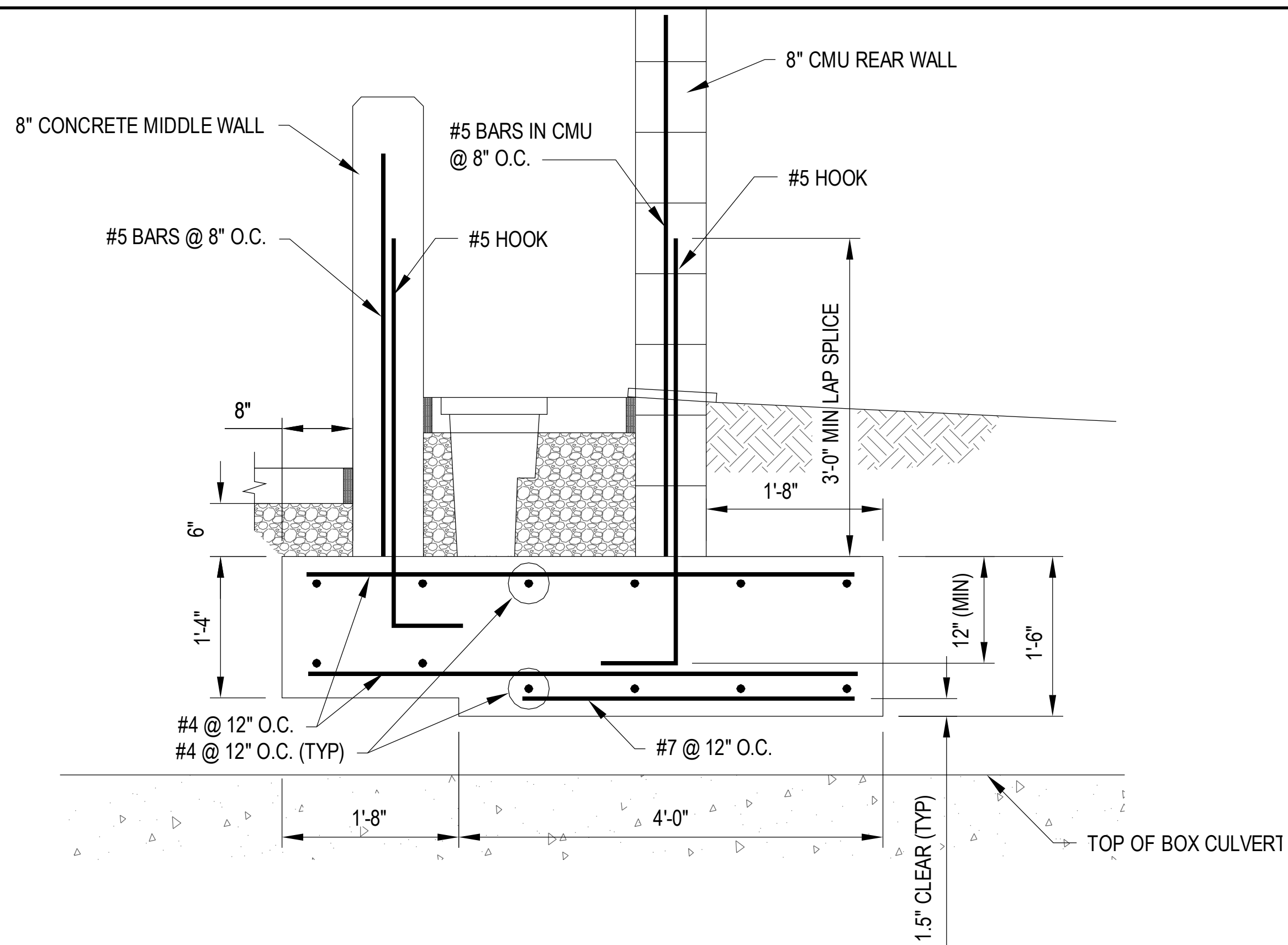
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2015	STP-EN-9409(161)	5A



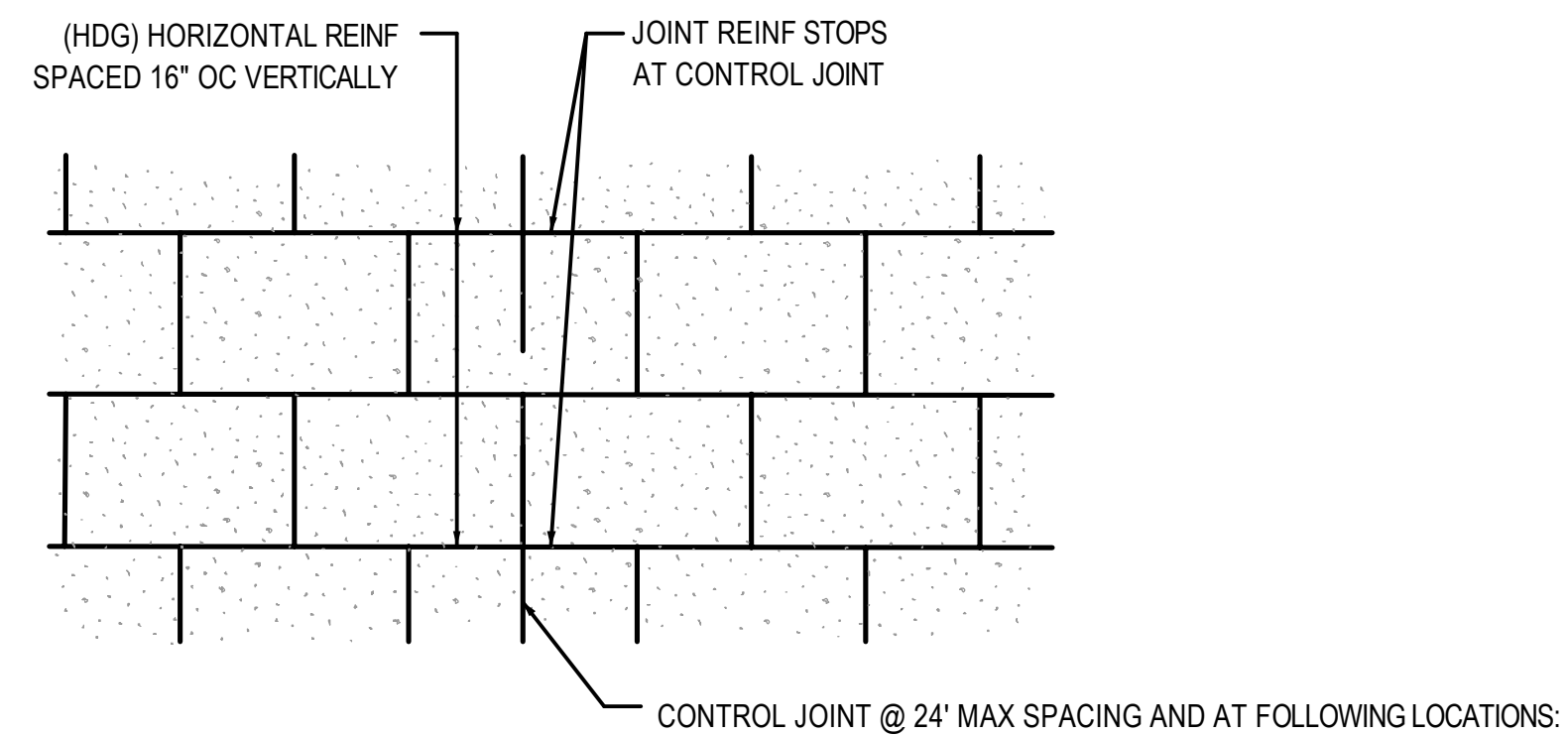
1 FRONT WALL FOOTING DETAIL
NTS

REINFORCED CONCRETE / FOOTING NOTES:

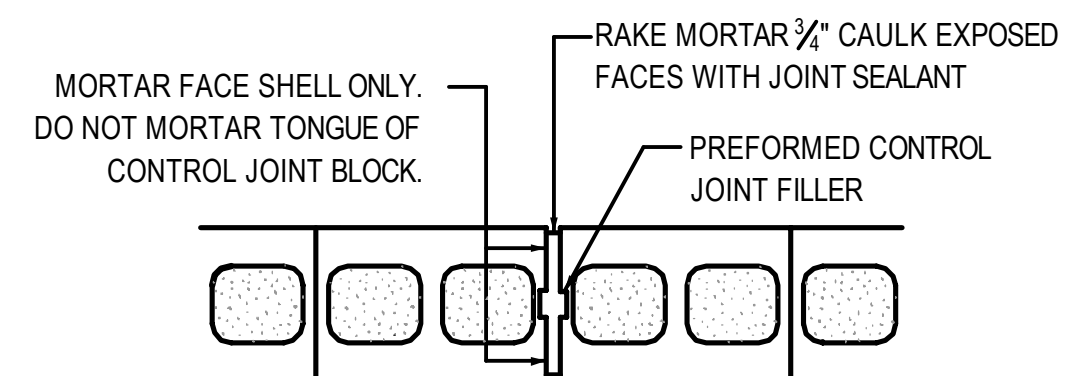
1. THE GENERAL CONTRACTOR SHALL ASSIST AND COOPERATE WITH AN INDEPENDENT TESTING LABORATORIES (TO BE RETAINED BY THE OWNER) WHICH SHALL CONDUCT ALL THE SPECIFIED TESTS REQUIRED FOR THE CONCRETE WORK AND REPORT THE RESULTS OF THESE TESTS DIRECTLY AND PROMPTLY TO THE ENGINEER FOR HIS REVIEW.
2. DETAILING OF REBAR SHALL BE IN ACCORDANCE WITH THE LATEST REVISION OF THE ACI DETAILING MANUAL, AND CONCRETE REINFORCING INSTITUTE'S LATEST EDITION OF "MANUAL OF STANDARD PRACTICE." ALL SHOP DRAWINGS PERTAINING TO REBAR DETAILS SHALL BE SUBMITTED TO THE ENGINEER FOR HIS REVIEW.
3. CONCRETE MIX DESIGN FOR ALL CONCRETE WORK IS REQUIRED TO BE SUBMITTED TO THE ENGINEER FOR HIS REVIEW. IS TO BE NOTED THAT THE CONCRETE SUPPLIER SHALL HAVE A QUALITY CONTROL PROCEDURE FOR THE PRODUCTION OF ALL CONCRETE, WHICH MUST BE ACCEPTABLE TO THE ENGINEER AND MEETS CURRENT ACI STANDARDS.
4. CONSTRUCTION JOINTS, INCLUDING LOCATION OF POUR STRIPS, SHALL BE AS APPROVED BY THE STRUCTURAL ENGINEER AND THE ARCHITECT. ENGINEER SHALL BE INFORMED AT LEAST 48 HOURS PRIOR TO THE COMMENCEMENT OF ANY CONCRETE WORK.
5. A COPY OF ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS" AND ACI SP 15 "FIELD REFERENCE MANUAL" SHALL BE KEPT IN THE PROJECT FIELD OFFICE AT ALL TIMES.
6. CONCRETE COMPRESSIVE DESIGN STRENGTH IN 28 DAYS SHALL BE 4000 PSI FOR ALL CONCRETE.
7. REINFORCING: ASTM A615, GRADE 60, FOR SLABS RETAINING/STAIR WALLS AND FOUNDATIONS IS ACCEPTABLE. ALL REINFORCING TO BE A706 GRADE WHERE WELDING IS REQUIRED.
8. BAR DETAILS AND SUPPORTS: ACI DETAILING MANUAL AND BUILDING CODE. LAP ALL SPLICES AS SHOWN ON THE STRUCTURAL DRAWINGS.
9. CLEAR DISTANCE FROM FACE OF CONCRETE TO MAIN STEEL SHALL BE AS SHOWN ON THE STRUCTURAL DRAWINGS. WHERE CLEAR DISTANCE IS NOT SHOWN, ACI 301 SHALL CONTROL. ACI 362 "GUIDE FOR THE DESIGN OF DURABLE PARKING STRUCTURES SHALL CONTROL FOR EXPOSED SLABS.



2 REAR/MIDDLE WALL FOOTING DETAIL

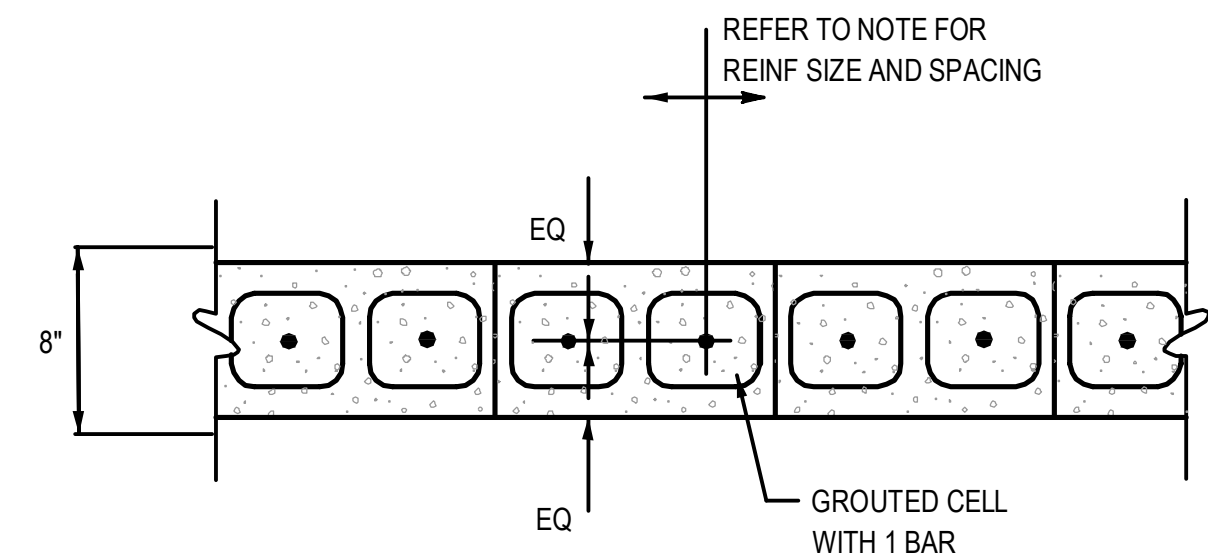


- NOTES:
- | | |
|--|---|
| 1. CONTROL JOINTS MAY BE OFFSET A MAXIMUM DISTANCE OF 8". CROSS WIRES WITHIN THIS OFFSET SHALL BE CUT. | 1. AT CHANGES IN WALL HEIGHT AND AT FOUNDATION STEPS |
| | 2. AT ONE END OF LINTELS OF WALL OPENINGS < 6'. AT BOTH END OF LINTELS OF WALL OPENINGS > 6'. |



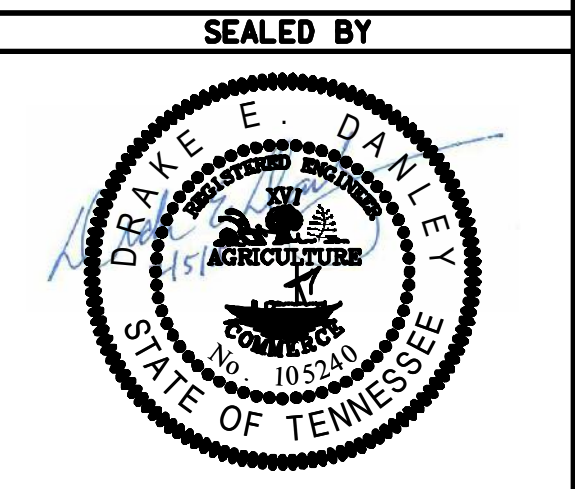
- NOTES:
1. WIDE FLANGED PREFORMED CONTROL JOINT FILLER MAY BE USED IN LIEU OF DETAIL SHOWN.

3 CONTROL JOINT - CMU WALL
NTS



- NOTES:
1. UNLESS NOTED OTHERWISE ON THE DRAWINGS, REINFORCE ALL CMU WALLS WITH (1) #5 BAR @ 8" OC. FULLY GROUT ALL CELLS.
 2. CMU BARRIER WALLS SHALL BE FULLY GROUTED FROM TOP OF FOOTING TO TOP OF WALL.
 3. CMU BARRIER WALL VERTICAL REINFORCEMENT TO BE FULLY DEVELOPED IN CIP CONCRETE FOOTING BELOW.

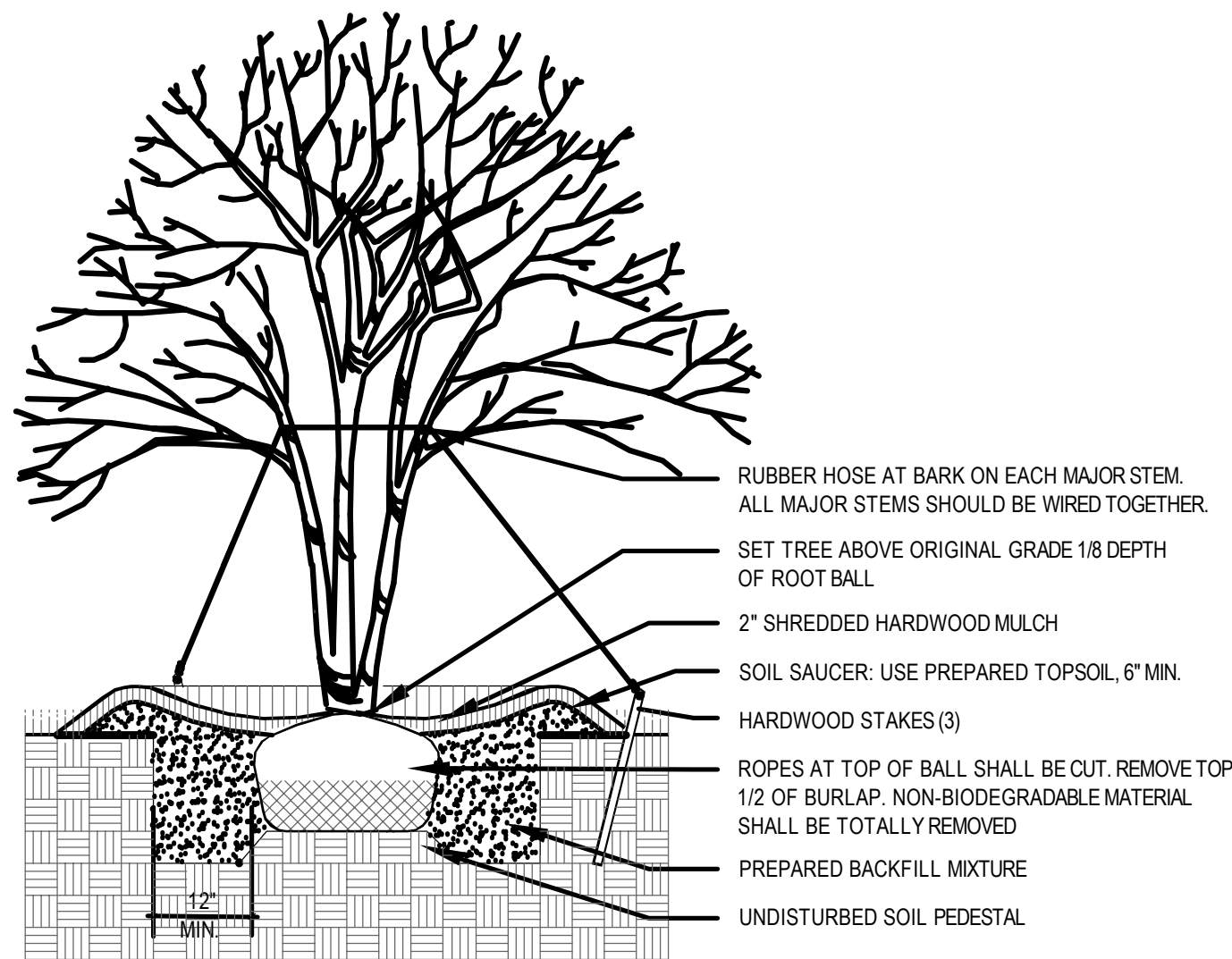
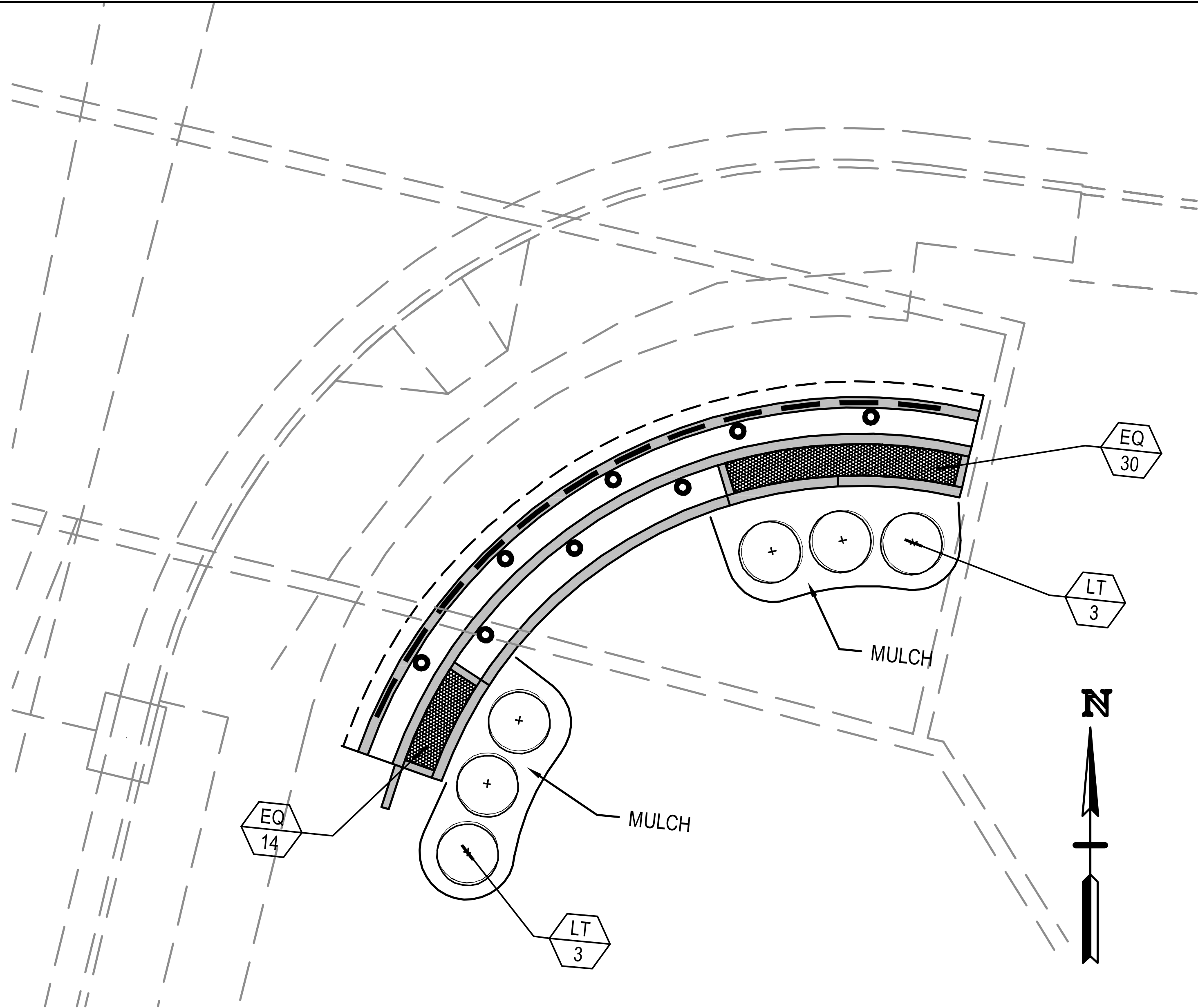
4 CMU BARRIER WALL REINF - PLAN VIEW
NTS



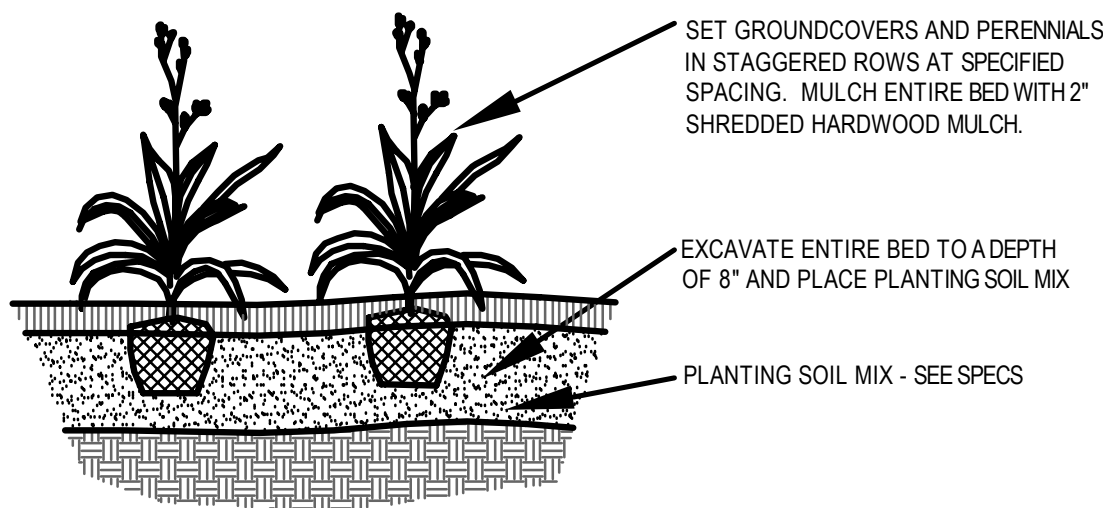
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

STRUCTURAL DETAILS

SCALE: 1"=10'



1 ORNAMENTAL TREE PLANTING
N.T.S.

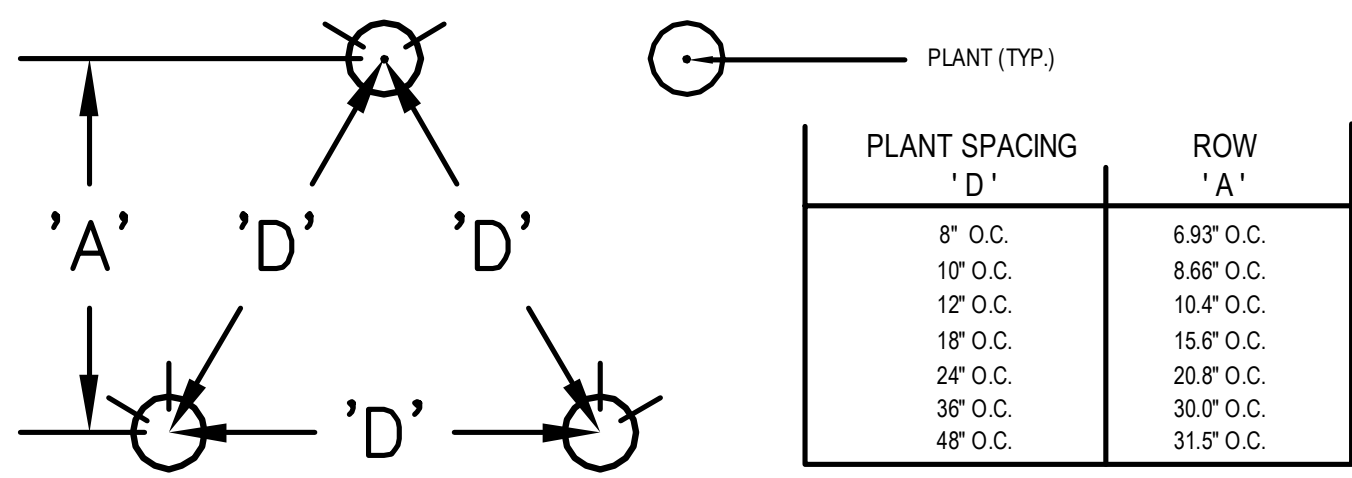


2 GROUNDCOVER PLANTING
N.T.S.

- NOTES:
1. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MATERIALS, TESTING AND LABOR REQUIRED TO FULLY INSTALL THE PLANT MATERIAL PER THE PLANS INCLUDING: SOIL TESTING, SOIL AMENDMENTS (AS NECESSARY), BED PREPARATION, PLANT INSTALLATION, FERTILIZING, MULCHING, WATERING, MAINTENANCE AND WARRANTY.
 2. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF HIS WORK WITH THAT OF ALL OTHER CONTRACTORS. THIS PLAN DOES NOT GUARANTEE THE EXISTENCE OR NON-EXISTENCE OF ANY UTILITIES. PRIOR TO COMMENCEMENT OF ANY WORK, THE LANDSCAPE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL ABOVE GROUND AND UNDERGROUND UTILITIES.
 3. THE QUALITY AND SIZE OF ALL PLANT MATERIAL SHALL CONFORM TO THE MOST CURRENT STANDARDS AS SET FORTH IN ANSI Z60.180 -- AMERICAN STANDARD FOR NURSERY STOCK.
 4. WHERE PLANT MATERIAL IS PROPOSED IN AREAS ADJACENT TO ANY PROPERTY LINE, THE LANDSCAPE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF THE PROPERTY LINE. ALL NEW PLANT MATERIAL SHALL BE INSTALLED SUCH THAT THE ENTIRE ROOT BALL OF THE PLANT LIES ON THE SUBJECT PROPERTY. UNDER NO CIRCUMSTANCES SHALL ANY PORTION OF THE ROOT BALL EXTEND BEYOND THE LIMITS OF THE SUBJECT PROPERTY.
 5. ALL AREAS NOT COVERED BY HARDSCAPE OR PLANT MATERIALS SHALL BE COVERED WITH SEED/STRAW, OR GROUND COVER.
 6. ALL HEDGE ROW SHRUBS SHOWN SHALL BE PLANTED AT 3' ON CENTER. ALL STAGGERED PLANT MASSES SHALL BE PLANTED TO ACHIEVE THE EFFECT OF PLANTING AT 3' ON CENTER. ALL SHRUBS SHALL BE AT LEAST 24" IN HEIGHT WHEN PLANTED (UNLESS OTHERWISE SPECIFIED) AND MAINTAINED AT A MINIMUM HEIGHT OF 3' AFTER 4 YEARS.
 7. ALL DECIDUOUS TREES SHALL BE A MINIMUM CALIPER SPECIFIED WHEN PLANTED.
 8. PRIOR TO PLANTING, THE CONTRACTOR SHALL CONTACT TENNESSEE ONE CALL, INC. (1-800-351-1111) TO LOCATE ALL UNDERGROUND UTILITIES.
 9. ALL DISTURBED AREAS SHALL RECEIVE A MINIMUM 4" LAYER OF TOPSOIL.
 10. PLANT SUBSTITUTION MAY BE PERMITTED ONLY AFTER PROOF THAT SPECIFIED PLANTS ARE UNAVAILABLE HAS BEEN SUBMITTED TO THE OWNER OR LANDSCAPE ARCHITECT. THE CONTRACTOR SHALL PROVIDE THE NEAREST EQUIVALENT OBTAINABLE SIZE AND VARIETY OF THE PLANT HAVING THE SAME ESSENTIAL CHARACTERISTICS AS THE PLANT SPECIFIED.
 11. THE CONTRACTOR SHALL FURNISH QUANTITIES NECESSARY TO COMPLETE THE PLANTING SHOWN AND AS LOCATED ON THE PLAN.
 12. MINOR PLANT LOCATION ADJUSTMENTS MAY BE MADE IN THE FIELD TO ENSURE ACCESS TO UTILITY JUNCTION BOXES, FREE SITE LIGHTING OF FUTURE TREE CANOPY INTERFERENCE AND ALLOW UNINHIBITED PEDESTRIAN / VEHICULAR CIRCULATION ON ALL PAVEMENTS OR FOUNDATIONS.
 13. ALL SHRUB MASSES OF TWO OR MORE SHALL BE EDGED INTO A PLANTING BED AND MULCHED PER DETAIL. ALL INDIVIDUAL TREES AND SHRUBS SHALL HAVE A MULCH SAUCER EQUAL IN DIAMETER TO THE PLANTING PIT DIAMETER AND SHALL BE MULCHED AS SHOWN ON THE DETAILS. UNLESS OTHERWISE INDICATED, ALL BED EDGES SHALL BE A DEEP CUT CLEAN SPADE EDGE.
 14. SYNTHETIC BURLAP OR TREATED BURLAP SHALL NOT BE USED IN BALLING AND BURLAPPING OF ANY PLANT MATERIAL FOR THIS PROJECT.
 15. THE CONTRACTOR SHALL VERIFY THAT EACH TREE OR SHRUB PIT WILL DRAIN BEFORE INSTALLING PLANT MATERIAL. HE SHALL FILL THE HOLE WITH SIX INCHES (6") OF WATER THAT SHOULD PERCOLATE OUT WITHIN TWENTY-FOUR HOURS. SHOULD ANY AREA NOT DRAIN PROPERLY, A PERFORATED DRAIN LINE SHALL BE INSTALLED, OR THE PLANTS RELOCATED.
 16. THE CONTRACTOR SHALL NOTIFY THE OWNER IMMEDIATELY IF HE ENCOUNTERS ANY UNSUITABLE SURFACE OR SUBSURFACE DRAINAGE CONDITIONS, SOIL DEPTH, LATENT SOILS, HARD PAN, UTILITY LINES, OR OTHER CONDITIONS THAT WILL JEOPARDIZE THE HEALTH AND VIGOR OF THE PLANTS. SHOULD THE CONTRACTOR NOT NOTIFY THE OWNER OF A PROBLEM AREA, HE WARRANTS THAT THE AREAS ARE SUITABLE FOR PROPER GROWTH AND DEVELOPMENT OF ALL PLANTS INSTALLED.
 17. NO EXCAVATION OR PLANTING PIT SHALL BE LEFT OPEN OVERNIGHT.
 18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF ALL PLANTS UNTIL THE OWNER FORMALLY ACCEPTS THEM. THE PLANTS SHALL BE THOROUGHLY WATERED AT THE TIME OF INSTALLATION AND AS OFTEN THEREAFTER AS NECESSARY TO MAINTAIN THEM IN A HEALTHY AND VIGOROUS STATE.
 19. ALL PLANTS SHALL BE GUARANTEED FOR ONE (1) FULL YEAR FROM THE DATE OF FORMAL ACCEPTANCE BY THE OWNER AND SHALL BE ALIVE AND HAVE SATISFACTORY GROWTH AT THE END OF THE GUARANTEED PERIOD. ANY PLANT NOT IN HEALTHY AND VIGOROUS CONDITION SHALL BE REPLACED AT NO COST TO THE OWNER AT THE END OF THE GUARANTEED PERIOD. PLANTS SEVERLY DAMAGED BY VANDALS ARE NOT SUBJECT TO REPLACEMENT BY THIS CONTRACTOR. REPLACEMENT PLANTS SHALL MEET OR EXCEED THE REQUIREMENTS OF THE PLANT LIST. THE OWNER SHALL INSPECT THE REPLACED PLANTS WHEN ALL REPLACEMENTS HAVE BEEN MADE. REPLACEMENT PLANTS ARE TO BE ALIVE, HEALTHY AND FREE OF PESTS AND DISEASE.
 20. MAINTENANCE OF ALL PLANT MATERIAL AFTER FORMAL ACCEPTANCE BY THE OWNER IS THE RESPONSIBILITY OF THE OWNER. THE CONTRACTOR SHALL PROVIDE THE OWNER WITH MAINTENANCE GUIDELINES TO ASSURE PROPER CARE AFTER THE CONTRACTOR'S ONE YEAR GUARANTEE PERIOD.
 21. THE CONTRACTOR SHALL CLEAN UP THE SITE AT THE COMPLETION OF THE PROJECT AND MAINTAIN THE SITE IN A REASONABLY CLEAN AND NEAT CONDITION DURING INSTALLATION. STREETS AND DRIVES SHALL BE CLEANED REGULARLY TO REMOVE CONSTRUCTION DEBRIS AND DIRT RESULTING FROM THE WORK.
 22. THE CONTRACTOR SHOULD VERIFY LANDSCAPING/TREE PLANTING LOCATIONS WITH THE PUBLIC UTILITIES DEPARTMENT TO AVOID CONFLICTS WITH WATER, SEWER, AND GAS LINES.
 23. IN COMPLIANCE WITH TDOT'S STANDARD SPECIFICATION 801.15 (C), THE CONTRACTOR MAY PROVIDE THE DEPARTMENT WITH A PERFORMANCE SURETY BOND IF THE WORK IS COMPLETED ON THE ENTIRE PROJECT EXCEPT FOR FINAL INSPECTION AND ACCEPTANCE OF REPLACEMENT PLANTINGS, AND THE PROJECT IS READY FOR FINAL INSPECTION AND ACCEPTANCE.
 24. CONTRACTOR TO REMOVE AND DISPOSE OF SOD WITHIN ALL LANDSCAPE BEDS. LOOSEN SUB-GRADE OF PLANTING BEDS TO A MINIMUM DEPTH OF 6". REMOVE STONES LARGER THAN 1" IN ANY DIMENSION AND STICKS, ROOTS, RUBBISH, AND OTHER EXTRANEOUS MATTER AND LEGALLY DISPOSE OF THEM OFF OWNER'S PROPERTY. CONTRACTOR TO APPLY SNAPSHOT 2G GRANULAR PRE-EMERGENT HERBICIDE OR APPROVED SUBSTITUTE FOR BROADCAST SPECTRUM CONTROL. CONTRACTOR TO APPLY POST-EMERGENT OF POAST OR APPROVED SUBSTITUTE FOR POST-EMERGENT WEED CONTROL. CONTRACTOR TO FOLLOW MANUFACTURER'S RECOMMENDED APPLICATION RATES. SEE SPECIFICATIONS.

PLANT SCHEDULE

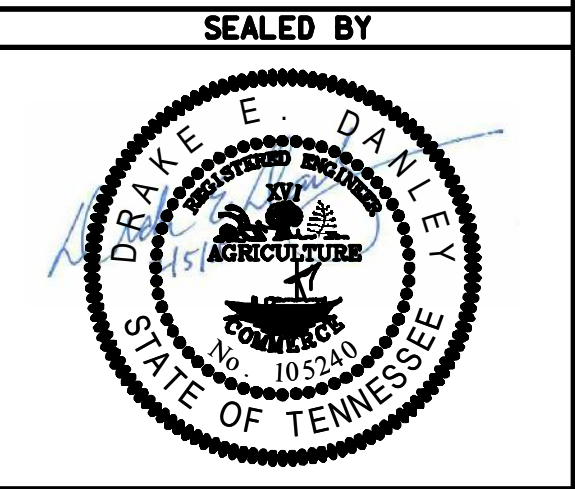
ABREV.	QTY	BOTANICAL / COMMON NAME	SIZE	ROOT	COMMENTS
EQ	44	<i>Equisetum</i> Horsetail	1 Gal.	x	Space 12" O.C.
LT	6	<i>Lagerstroemia indica</i> "Tuscarora" Tuscarora Crape myrtle	6-8'	B&B	Match 3 Canes



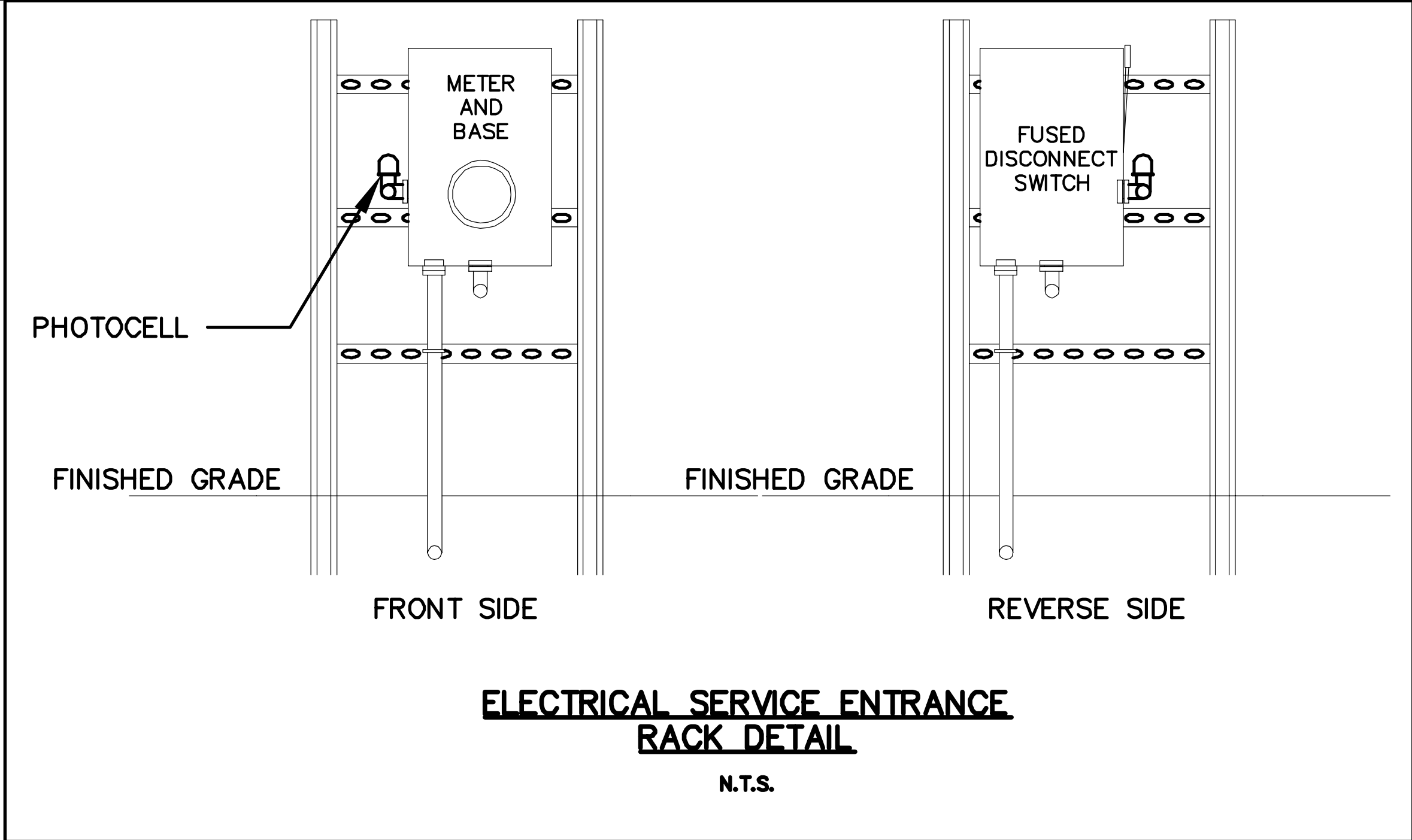
3 GROUNDCOVER SPACING
N.T.S.

NOTE: GROUNDCOVERS AND PERENNIALS TO BE INSTALLED WITH TRIANGULAR SPACING

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2015	STP-EN-9409(1 61)	6

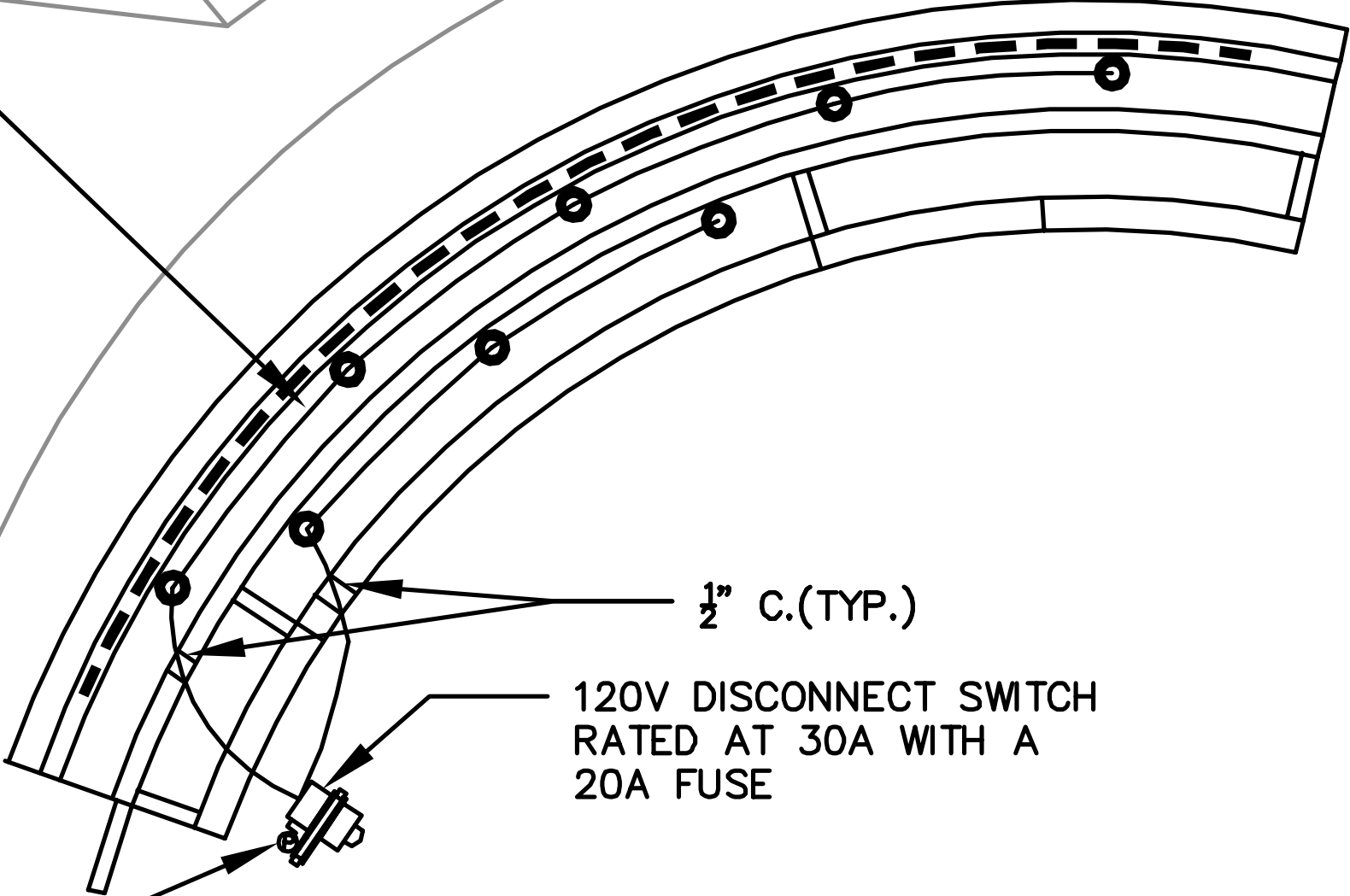


TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2013	STP-EN-9409(161)	7



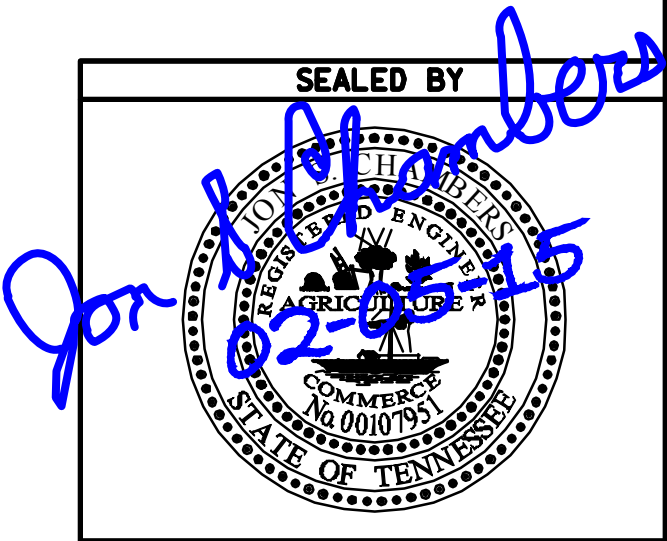
(2)#12AWG+ #12GND IN 1/2" C.(TYP.)

120V, SINGLE POLE SINGLE THROW, 180 DEGREE SWIVEL, CONDUIT MOUNTED PHOTOCELL



NOTES:

- 1 PROVIDE STRAPS FOR CONDUIT CONNECTION TO THE FRAMING.
- 2 GROUNDING BUSHINGS SHALL BE INSTALLED ON EACH END OF METAL CONDUITS.
- 3 EMPTY CONDUITS SHALL BE PLUGGED TO PREVENT MOISTURE AND RODENT ENTRY.
- 4 BELL ENDS SHALL BE INSTALLED ON THE ENDS OF PVC CONDUITS.
- 5 OPEN ENDS OF CONDUITS WITH CONDUCTORS INSTALLED SHALL BE SEALED WITH AN APPROVED SOFT, PLIABLE AND EASILY REMOVABLE WATERPROOF SEALANT. THE SEALANT SHALL NOT HAVE A DELETERIOUS EFFECT ON CABLE COVERINGS.
- 6 ALL PROPOSED ELECTRICAL EQUIPMENT SHALL BE ATTACHED TO THE CHANNELING WITH GALVANIZED BOLTS, LOCKWASHERS AND NUTS.



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ELECTRICAL
LAYOUT

SCALE: 1"=10'