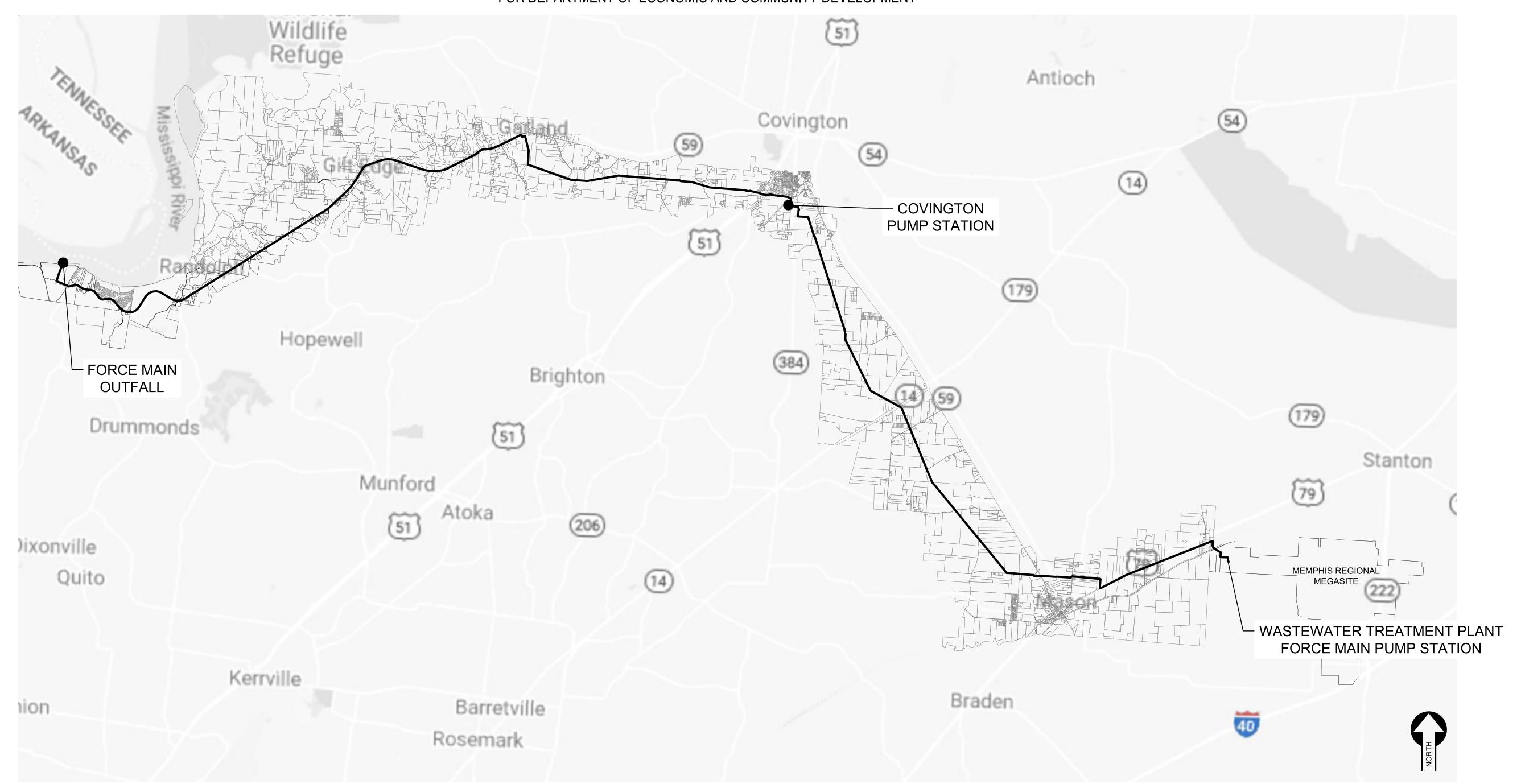
# FORCE MAIN & PUMP STATION MEMPHIS REGIONAL MEGASITE STATEWIDE - TENNESSEE SBC PROJECT NO. 529/000-02-2010-05

OWNER:
STATE OF TENNESSEE
DEPARTMENT OF GENERAL SERVICES
FOR DEPARTMENT OF ECONOMIC AND COMMUNITY DEVELOPMENT



OVERALL PROJECT SITE AREA

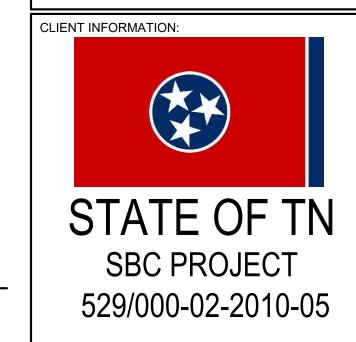


**%550e**®



FORCE MAIN AND
PUMP STATION
MEMPHIS REGIONAL MEGASITE

STATEWIDE, TENNESSEE



0	09/23/21	ISSUE FOR BID
NO.	DATE	SUBJECT
REV	ISION OR	ISSUE

SSOE, Inc. 320 Seven Springs Way, Suite 350 Brentwood, TN 37027 T 615-661-7585

PROJECT NO: 012-02080-16
PROJECT MANAGER: D. HIBDON
DESIGNED:

DESIGNED:
CHECKED:
DRAWING TITLE:

FORCE MAIN & PUMP STATION
COVER SHEET

DRAWING NO: 000-G-000

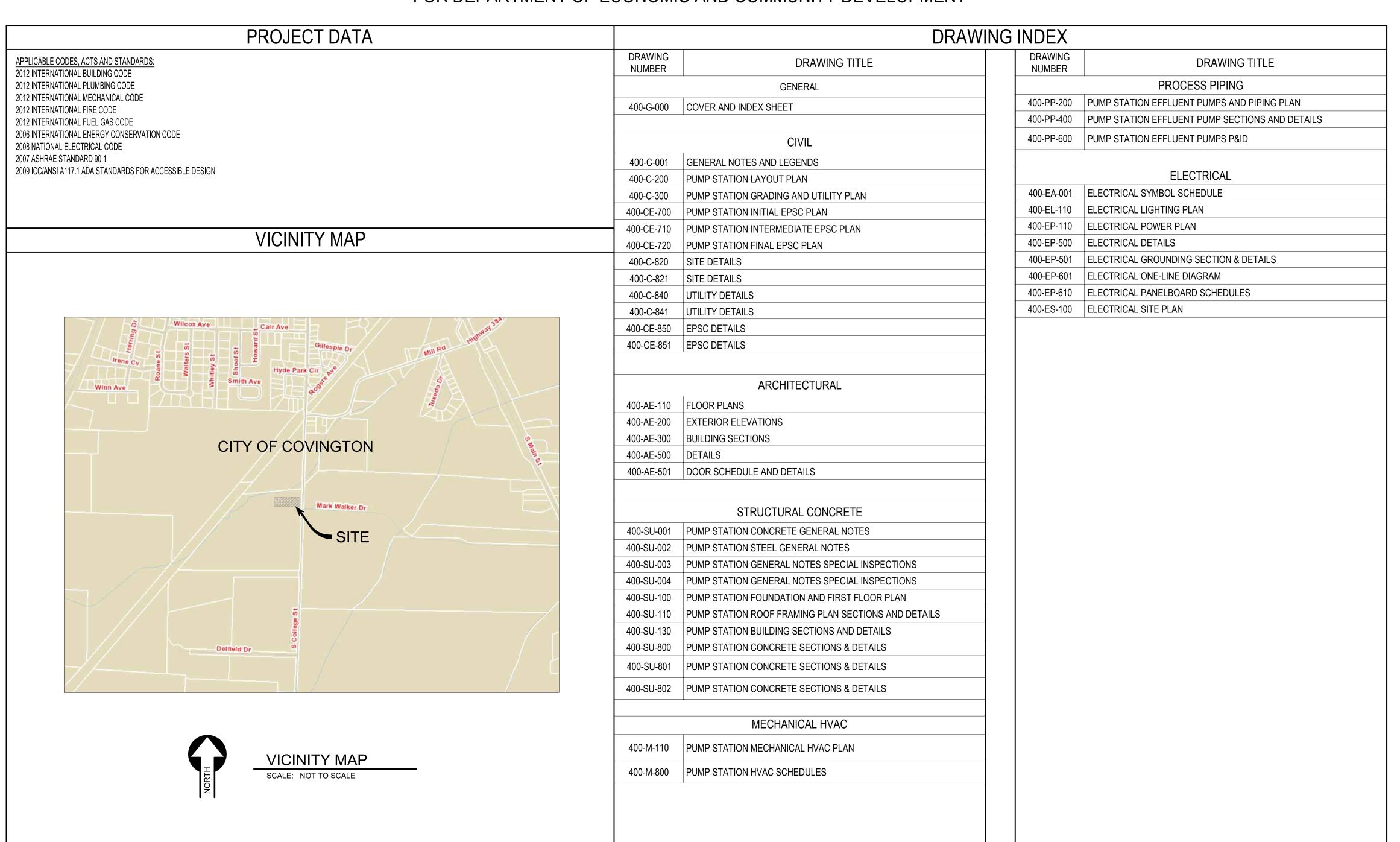
# COVINGTON PUMP STATION MEMPHIS REGIONAL MEGASITE STATEWIDE - TENNESSEE SBC PROJECT NO. 529/000-02-2010-05

# OWNER:

# STATE OF TENNESSEE

# DEPARTMENT OF GENERAL SERVICES

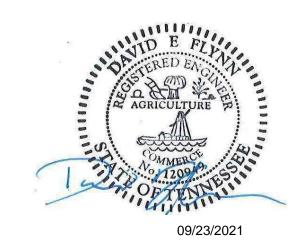
FOR DEPARTMENT OF ECONOMIC AND COMMUNITY DEVELOPMENT





**%5506**®

SEAL ON THIS DOCUMENT AUTHORIZED BY

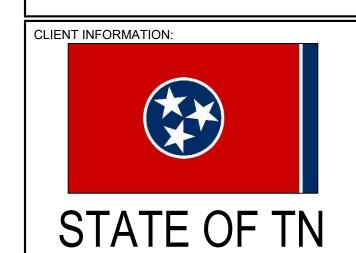


PROJECT INFORMATION:

FORCE MAIN AND PUMP STATION

MEMPHIS REGIONAL MEGASITE

STATEWIDE, TENNESSEE



SBC PROJECT 529/000-02-2010-05

0	09/23/21	ISSUE FOR BID	
NO.	DATE	SUBJECT	
REV	ISION OR	ISSUE	
320 S Brent T 615	SSOE, Inc. 320 Seven Springs Way, Suite 350 Brentwood, TN 37027 T 615-661-7585		
		•	

012-02080-21 PROJECT MANAGER: D. HIBDON

**COVER AND INDEX SHEET** 

DRAWING NO: 400-G-000

	CIVIL LEGEND	
DESCRIPTION	PROPOSED	EXISTING
BUILDING		
STORM SEWER	ST	ST
SANITARY SEWER	s	s
SANITARY SEWER FORCE MAIN	——— FM ———	——— FM ——
POTABLE WATER	———W———	———— W ———
BELOW GROUND TELEPHONE LINE	c	C
ABOVE GROUND TELEPHONE LINE	<c></c>	<c></c>
BELOW GROUND ELECTRICAL LINE	E	——— E ——
ABOVE GROUND ELECTRICAL LINE	<e></e>	<e></e>
PROPERTY LINE		
FENCE	x	X
RIGHT-OF-WAY		
DITCH OR SWALE		
MAJOR CONTOUR LINE	00	/ - 00
MINOR CONTOUR LINE	00	/ 00
ELEVATION	●—00.00	× 00.00
CONTROL POINT	•	•
MANHOLE/JUNCTION BOX	•	$\odot$
CLEANOUT	•	0
HEADWALL	<b>)</b>	<u> </u>
FIRE HYDRANT	¥	Á
BACKFLOW PREVENTER	<b>e</b>	P
POST HYDRANT	<b>®</b>	8
POST INDICATOR VALVE	<b>↓</b>	•
VALVE	•	$\otimes$
POWER POLE	•	\$
GUY WIRE	(	(

EPSC LEGEND			
	CE	CONSTRUCTION ENTRANCE. SEE DETAIL A3 ON SHEET 400-C-850.	
•	CW	CONCRETE WASHOUT AREA. SEE DETAIL B2 ON SHEET 400-C-850.	
	SF	SILT FENCE. SEE DETAIL B3 ON SHEET 400-C-850.	
	CD	CHECK DAM. SEE DETAIL A3 ON SHEET 400-C-851.	
	FR	FILTER RING/INLET PROTECTION. SEE DETAIL B4 ON SHEET 400-C-851.	
ψ ψ ψ ψ ψ ψ	TS PS	TEMPORARY AND PERMANENT SEEDING. SEE DETAIL C1 ON SHEET 400-C-851.	
	RR	RIP RAP. SEE DETAIL B4 ON SHEET 400-CE-850.	
	MA	MATTING/ EROSION CONTROL BLANKET. SEE DETAIL B3 ON SHEET 400-C-851	

LETTERS

SAN

SCV

STM

TE

TYP

WM

ΥD

CIVIL ABBREVIATIONS

DESCRIPTION

SANITARY

SECTIONAL CONTROL VALVE

STORM

TOP ELEVATION

TYPICAL

WATER METER

YARD DRAIN

CIVIL ABBREVIATIONS			
LETTERS	DESCRIPTION		
BM	BENCH MARK		
СВ	CATCH BASIN		
DIP	DUCTILE IRON PIPE		
EL	ELEVATION		
FFE	FINISHED FLOOR ELEVATION		
FM	FORCE MAIN		
GP	GUIDE POST		
HDPE	HIGH DENSITY POLYTHYLENE		
HP	HIGH POINT		
HW	HEADWALL		
IE	INVERT ELEVATION		
IPF	IRON PIN FOUND		
LF	LINEAR FEET		
MH	MANHOLE		
OVHD	OVERHEAD		
PK	MAG NAIL		
PL	PROPERTY LINE		
PP	POWER POLE		
PVC	POLYVINYL CHLORIDE PIPE		
RCP	REINFORCED CONCRETE PIPE		
RIM	RIM ELEVATION		
ROW	RIGHT OF WAY		

BENCH MARK AND CONTROL POINT TABLE				
NO.	DESCRIPTION	NORTHING	EASTING	ELEVATION
CP 1	CONTROL POINT - CONCRETE NAIL	461059.130	882796.540	319.51
CP 2	CONTROL POINT - CONCRETE NAIL	461013.890	883109.925	317.80

	SITE AREAS			
DESCRIPTION	<u>SQ FT</u>	<u>ACRES</u>		
TOTAL PROPERTY	47,362 SQ FT	1.09 ACRES		
DISTURBED AREA	42,570 SQ FT	0.98 ACRES		
PRE-IMPERVIOUS AREA	5,176 SQ FT	0.12 ACRES		
PRE-PERVIOUS AREA	42,186 SQ FT	0.97 ACRES		
POST-IMPERVIOUS AREA	17,521 SQ FT	0.40 ACRES		
POST-PERVIOUS AREA	29,841 SQ FT	0.69 ACRES		

# **GENERAL NOTES:**

- ALL WORK AND MATERIALS SHALL CONFORM TO THE MOST CURRENT CONSTRUCTION STANDARDS OF TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION, TDOT CONSTRUCTION STANDARDS AND SPECIFICATIONS. AND ALL APPLICABLE NATIONAL, STATE, AND LOCAL STANDARDS AND REGULATIONS, UNLESS NOTED OTHERWISE. ALL STANDARDS REFERRED TO IN THESE PLANS SHALL BE IN ACCORDANCE WITH THE TDEC CONSTRUCTION STANDARDS. UNLESS OTHERWISE NOTED. IN CASE OF DISCREPANCIES BETWEEN REQUIREMENTS, THE MOST STRINGENT SHALL APPLY.
- THE CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY, MUNICIPAL, AND UTILITY JURISDICTIONAL CODES BEARING ON THE PERFORMANCE OF THE WORK
- 3. THE ARCHITECT/ENGINEER HAS MADE EVERY EFFORT TO SET FORTH IN THE CONSTRUCTION AND CONTRACT DOCUMENTS, THE COMPLETE SCOPE OF WORK. THE CONTRACTOR BIDDING THE JOB IS NEVERTHELESS CAUTIONED THAT MINOR OMISSIONS OR ERRORS IN THE DRAWINGS AND/OR SPECIFICATIONS SHALL NOT EXCUSE SAID CONTRACTORS FROM COMPLETING THE PROJECT AND IMPROVEMENTS IN ACCORDANCE WITH THE INTENT OF
- 4. THE CONTRACTOR OR BIDDER SHALL BEAR THE RESPONSIBILITY OF NOTIFYING (IN WRITING) THE OWNER'S REPRESENTATIVE OF ANY CONFLICTS, ERRORS, OR OMISSIONS PRIOR TO THE SUBMISSION OF CONTRACTOR'S PROPOSAL OF
- 5. THE CONTRACTOR SHALL MAINTAIN A FULL SET OF CONSTRUCTION DOCUMENTS AT THE SITE, UPDATED WITH THE LATEST REVISIONS, ADDENDUMS, BULLETINS, OR CLARIFICATIONS AVAILABLE FOR USE BY ALL PERSONNEL AS THEY APPLY TO THIS PROJECT.
- 6. THE SCOPE OF WORK SHALL INCLUDE FURNISHING ALL MATERIALS, EQUIPMENT. AND LABOR DEEMED NECESSARY TO COMPLETE THE WORK/PROJECT AS DESCRIBED HEREIN.
- 7. THE CONTRACTOR SHALL VISIT THE JOB SITE PRIOR TO THE SUBMISSION OF BIDS OR PERFORMING WORK AND FAMILIARIZE THEMSELVES WITH THE FIELD CONDITIONS AND TO VERIFY THAT THE PROJECT CAN BE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT.
- THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE AND ENGINEER IMMEDIATELY OF ANY DISCREPANCIES FOUND DURING THE INVESTIGATION OF THE EXISTING UTILITIES AND TOPOGRAPHY AND/OR DURING THE CONSTRUCTION PHASE.
- COORDINATES AND/OR DIMENSIONS SHOWN ON THESE DRAWINGS ARE TO OUTSIDE FACE OF BUILDING FOUNDATIONS, EDGE OF PAVEMENT, OR CENTER OF STRUCTURE OR SIGN, UNLESS NOTED OTHERWISE.
- 10. NO DIMENSION MAY BE SCALED. REFER UNCLEAR ITEMS TO THE ENGINEER FOR INTERPRETATION.
- 11. THE CONTRACTOR SHALL OBTAIN AUTHORIZATION TO PROCEED WITH CONSTRUCTION PRIOR TO STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED BY THE CONSTRUCTION DRAWINGS/CONTRACT.
- 12. THE LOCATIONS OF ALL EXISTING SITE IMPROVEMENTS AND GRADES SHOWN ON THE PLANS HAVE BEEN OBTAINED FROM FIELD SURVEYS PERFORMED BY SURVEYING SERVICES, INC. IT IS BELIEVED THAT THEY ARE ESSENTIALLY CORRECT, BUT SSOE DOES NOT GUARANTEE THEIR ACCURACY OR COMPLETENESS. THE EXACT LOCATION OF EXISTING UTILITIES SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
- 13. THE CONTRACTOR AT ALL TIMES SHALL FOLLOW ALL STATE AND LOCAL SAFETY REQUIREMENTS DURING CONSTRUCTION OF THIS PROJECT. SPECIAL CARE SHALL BE TAKEN DURING ALL TRENCHING OPERATIONS. SHEETING AND BRACING, CRIBBING, ETC., MUST BE INSTALLED AS REQUIRED TO PROVIDE MAXIMUM SAFETY TO THE CONTRACTOR'S WORKERS IN FULL COMPLIANCE WITH OSHA REGULATIONS.
- 14. THE CONTRACTOR IS RESPONSIBLE FOR THE INVESTIGATION, LOCATION, TYPE & MATERIAL, SUPPORT, PROTECTION AND RESTORATION OF ALL EXISTING UTILITIES AND APPURTENANCES WHETHER SHOWN ON THESE PLANS OR NOT. A MINIMUM SPACING OF 5' FROM UTILITY POLES SHALL BE KEPT. CONFLICTS TO BE COORDINATED WITH ENGINEER THE CONTRACTOR SHALL EXPOSE OR LOCATE ALL UTILITIES OR STRUCTURES WITHIN THE ALIGNMENT OF PROPOSED NEW CONSTRUCTION AT LEAST 1 WEEK PRIOR TO CONSTRUCTION TO VERIFY THE VERTICAL AND HORIZONTAL EFFECT OF THE PROPOSED CONSTRUCTION. THE CONTRACTOR SHALL CALL. TOLL FREE THE UTILITIES PROTECTION SERVICE (811) 48 HOURS PRIOR TO CONSTRUCTION AND SHALL NOTIFY ALL UTILITY COMPANIES AT LEAST 48 HOURS PRIOR TO WORK IN THE VICINITY OF THEIR UNDERGROUND LINES.
- 15. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RESTORE ALL STREETS, HIGHWAYS, DRIVEWAYS, CULVERTS, ROADSIDE DITCHES, AND OTHER PUBLIC OR PRIVATE STRUCTURES THAT ARE DISTURBED OR DAMAGED AS A RESULT OF CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL RESTORE SUCH FACILITIES AND STRUCTURES TO A CONDITION EQUAL TO OR BETTER THAN EXISTING CONDITIONS AND TO THE SATISFACTION OF THOSE AUTHORITIES HAVING JURISDICTION.
- 16. PROVIDE ADEQUATE BARRICADES AT DRIVES, ENTRANCES, EXCAVATIONS, AND OTHER OPENINGS TO KEEP OUT UNAUTHORIZED PERSONS AND FOR PUBLIC SAFETY AND TRAFFIC CONTROL. SAFETY PROVISIONS OF APPLICABLE LAWS SHALL BE OBSERVED AT ALL TIMES. BARRICADES LEFT IN PLACE AT NIGHT SHALL BE LIGHTED. NO SURFACE OPENINGS SHALL BE LEFT UNCOVERED
- 17. THE CONTRACTOR SHALL KEEP THE GENERAL WORK AREA CLEAN AND HAZARD FREE DURING CONSTRUCTION AND DISPOSE OF ALL DIRT, DEBRIS/RUBBISH, AND REMOVE EQUIPMENT NOT SPECIFIED AS REMAINING ON
- 18. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES, AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER
- 19. ALL DISTURBED AREAS NOT DESIGNATED TO RECEIVE A FINISHED SURFACE SHALL BE SEEDED AND MULCHED ON A MINIMUM OF 6" TOPSOIL. SEED, MULCH AND FERTILIZE ALL DISTURBED TOPSOIL AREAS PER TDEC SEEDING SPECIFICATIONS. CONTRACTOR SHALL WATER, FERTILIZE AND RESEED AREAS AS NECESSARY UNTIL A MINIMUM OF 70% GROWTH DENSITY IS ACHIEVED.
- 20. CONTRACTOR SHALL USE TRAFFIC CONTROL DEVICES AS NECESSARY PER TDOT AND MUTCD SPECIFICATIONS. ANY DAMAGE TO THE CURB OR OTHER STRUCTURES WITHIN THE TDOT RIGHT-OF-WAY DURING THE DEMOLITION AND CONSTRUCTION PHASE OF THE PROJECT SHALL BE REPAIRED PER TDOT CONSTRUCTION STANDARDS.
- 21. THE CONTRACTOR IS RESPONSIBLE FOR ALL PERMITS, PERMIT FEES, LICENSES, AND LICENSE FEES ASSOCIATED WITH THIS PROJECT.
- 22. THE CONTRACTOR SHALL RESTRICT ACCESS TO THE PROJECT SITE TO DESIGNATED LOCATIONS BY USE OF ADEQUATE FENCING, IF NECESSARY.
- 23. METHODS OF DEWATERING SHALL BE DETERMINED BY THE CONTRACTOR AS NECESSARY TO FACILITATE PROPOSED CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR PERFORMING ADDITIONAL GEOTECHNICAL EXPLORATIONS AS NECESSARY FOR BIDDING AND CONSTRUCTION.
- 24. ALL EXCESS EXCAVATION SHALL BE STOCKPILED AT A DESIGNATED LOCATION AS DIRECTED BY OWNER'S REPRESENTATIVE AND/OR ENGINEER. COORDINATE TEMPORARY AND EXCESS SOIL STOCKPILES PRIOR TO CONSTRUCTION.
- 25. SOLID, SANITARY AND TOXIC WASTE MUST BE DISPOSED OF IN A PROPER MANNER IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS. IT IS PROHIBITED TO BURN, BURY, OR POUR OUT ANY SOLVENTS, PAINTS, STAINS, GASOLINE, DIESEL FUEL, USED MOTOR OIL, HYDRAULIC FLUID, ANTIFREEZE, CEMENT CURING COMPOUNDS AND OTHER SUCH TOXIC OR HAZARDOUS WASTES. WASH OUT OF CONCRETE TRUCKS SHALL OCCUR IN A DIKED, DESIGNATED AREA WHERE THE WASTEWATER CAN BE COLLECTED AND DISPOSED OF PROPERLY WHEN IT HARDENS. STORAGE TANKS SHALL BE LOCATED IN DIKED AREAS AWAY FROM ANY DRAINAGE CHANNELS. THE DIKED AREA SHALL CONTAIN A VOLUME 110% OF THE LARGEST TANK.
- 26. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING THEIR OWN STAKING CONTROL TO ENSURE BOTH HORIZONTAL AND VERTICAL ACCURACY OF THE
- 27. CONTRACTOR TO HOLD ANY TELEPHONE OR ELECTRICAL POLE THAT IS IN DANGER OF BEING UNDERMINED OR EFFECTED BY PIPE INSTALLATION PROCESSES

**GRADING AND EARTHWORK NOTES** 

- 1. TOPSOIL SHALL BE STRIPPED TO ITS ENTIRE DEPTH, AS ENCOUNTERED, FROM ALL AREAS TO RECEIVE NEW CONSTRUCTION. TOPSOIL SHALL BE STOCKPILED AND REDISTRIBUTED OVER GRADED AREAS TO A MINIMUM DEPTH OF 6 INCHES. MAKE STOCKPILES FREE DRAINING AND PROVIDE EROSION AND SEDIMENTATION CONTROLS AROUND STOCKPILES.
- 2. SATISFACTORY TOPSOIL IS DEFINED AS SOIL BEING FREE OF SUBSOIL, CLAY LUMPS, STONES, AND OTHER OBJECTS OVER 1 INCH IN DIAMETER.
- 3. EARTHWORK FILL SHALL INCLUDE STRIPPING TOPSOIL AND PLACING OF MAXIMUM DRY DENSITY PER ASTM D698.
- 4. AFTER STRIPPING TOPSOIL, PROOFROLL SUBGRADE WITH A LOADED DUMP TRUCK WITH A MINIMUM WEIGHT OF 15 TONS.
- SPOT ELEVATIONS AND CONTOURS REPRESENT THE PROPOSED FINISHED GRADE FOR THIS PHASE OF THE PROJECT. IN LAWN AREAS THERE SHALL BE A MINIMUM OF 6" OF TOPSOIL ADDED PRIOR TO ESTABLISHING VEGETATION. ALL UNDERCUTTING, FILL PLACEMENT, AND TOPSOIL PLACEMENT ARE INCLUDED IN ACQUIRING THE ELEVATIONS SHOWN ON THESE PLANS. IN PAVED AREAS, ALL UNDERCUTTING, FILL PLACEMENT, AGGREGATE BASE, AND PAVEMENT THICKNESS ARE INCLUDED IN ACQUIRING THE ELEVATIONS SHOWN ON THESE PLANS.
- NO TREES SHALL BE REMOVED NOR VEGETATION DISTURBED EXCEPT AS NECESSARY FOR GRADING PURPOSES AS SHOWN ON THE PLANS AND
- 7. ALL GRADED AREAS SHALL BE MULCHED AND SEEDED WITHIN 7 DAYS AFTER GRADING IS COMPLETED.
- 8. CONSTRUCT TEMPORARY EROSION CONTROL AS SHOWN ON THE DRAWINGS PRIOR TO BEGINNING GRADING OPERATIONS.

ONLY AS APPROVED BY THE ENGINEER.

- 9. ALL DRAINAGE STRUCTURES AND PIPES WITHIN THE LIMITS OF CONSTRUCTION SHALL HAVE SEDIMENT REMOVED PRIOR TO FINAL ACCEPTANCE.
- 10. THE CONTRACTOR SHALL PROTECT ALL TREES DESIGNATED TO REMAIN. DO NOT OPERATE OR STORE HEAVY EQUIPMENT, NOR HANDLE/STORE MATERIALS WITHIN THE DRIPLINES OF TREES.
- TOP OF GRATE ELEVATIONS ARE GIVEN TO THE CENTER OF THE INLETS AT THE TOP ELEVATION. THE GRATES SHALL SLOPE LONGITUDINALLY WITH THE PAVEMENT GRADE. ADJUST THE CASTING TO FALL ALONG THE CURB
- 12. CONTRACTOR SHALL VERIFY EXISTING ELEVATIONS PRIOR TO BEGINNING
- 13. EXCESS MATERIAL SHALL BE DISPOSED OF OFF SITE OR AS DIRECTED BY ENGINEER.
- 14. CONTOUR LINES AND SPOT ELEVATIONS ARE THE RESULT OF A DETAILED ENGINEERING GRADING DESIGN AND REFLECT A PLANNED INTENT WITH REGARD TO DRAINAGE. SHOULD THE CONTRACTOR HAVE ANY QUESTIONS OF THIS INTENT OR ANY PROBLEMS WITH CONTINUITY OF GRADES. THE ARCHITECT/ENGINEER SHALL BE CONTACTED PRIOR TO BEGINNING WORK.
- 15. ALL HEADWALLS SHALL HAVE A RIPRAP APRON INSTALLED USING A NON-WOVEN GEOTEXTILE FABRIC LINER.
- UNLESS NOTED OTHERWISE ON PLANS, CONTRACTOR SHALL CUT OR FILL, AS NECESSARY, TO PROVIDE A SMOOTH TRANSITION BETWEEN EXISTING AND PROPOSED GRADES. ALL CUT AND/OR FILL SLOPES SHALL BE A MAXIMUM OF 4 HORIZONTAL TO 1 VERTICAL (4H:1V).
- 17. FINISHED GRADING SHALL BE DONE TO PREVENT PONDING WITHIN THE PROJECT AREA AND ADJOINING AREAS, AND MAINTAIN POSITIVE DRAINAGE TO THE NEAREST DRAINAGE FEATURE.
- 18. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING DOWNSTREAM AREAS FROM SEDIMENT OF CONSTRUCTION ACTIVITIES WITHIN THE EARTH DISTURBING LIMITS UNTIL PERMANENT STABILIZATION IS ESTABLISHED.
- 19. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE SITE GRADING SUCH THAT ALL SURFACE WATER WITHIN EARTH DISTURBING LIMITS AND DEWATERING, IF REQUIRED, IS DIVERTED THROUGH EROSION AND

SEDIMENT CONTROL MEASURES.

- 20. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND MAINTAINING A SITE DUMP/WASH AREA IN COMPLIANCE WITH APPLICABLE BEST MANAGEMENT PRACTICES. THE SITE DUMP/WASH AREA SHALL BE IN PLACE PRIOR TO STARTING CONSTRUCTION FOR SUCH PURPOSES AS WASHING OUT CONCRETE TRUCKS AND DUMPING NON-HAZARDOUS WASTE MATERIALS. DUMPING OR DISCHARGING OF ANY WASTE MATERIALS TO ANY SEWER IS PROHIBITED. HAZARDOUS WASTES ARE TO BE REMOVED OFF SITE AND PROPERLY DISPOSED OF CONSISTENT WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS.
- . THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING TEMPORARY EROSION PREVENTION AND SEDIMENT CONTROL PRACTICES SATISFYING THE CONDITIONS OF THE STATE OF TENNESSEE GENERAL PERMIT FOR DISCHARGES OF STORM WATER ASSOCIATED WITH CONSTRUCTION ACTIVITIES.
- 22. THE CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTING AND MAINTAINING AN AGGREGATE CONSTRUCTION ROAD TO MINIMIZE THE TRACKING OF SEDIMENTS OUTSIDE THE LIMITS OF CONSTRUCTION BY CONSTRUCTION VEHICLES.
- 23. THE CONTRACTOR WILL INITIATE TEMPORARY STABILIZATION WITHIN 7 DAYS OF LAST DISTURBANCE ON ALL DISTURBED AREAS WHERE CONSTRUCTION ACTIVITIES WILL BE CEASED OR SUSPENDED FOR 21 DAYS OR MORE. ALL DISTURBED AREAS MUST BE ADEQUATELY STABILIZED PRIOR TO THE ONSET OF WINTER.
- 24. IT IS THE GRADING CONTRACTOR'S RESPONSIBILITY TO REVIEW THE GRADING PLANS AND SOILS REPORT THOROUGHLY PRIOR TO SITE MOBILIZATION. IT IS ALSO THE GRADING CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE CIVIL AND SOILS ENGINEERS IF ON SITE DISCREPANCIES ARE OBSERVED THAT WOULD AFFECT THE EARTHWORK QUANTITIES.
- 25. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEWATERING TO ACCOMPLISH ALL WORK INDICATED ON PLANS AND TO PERFORM REQUIRED 10. ANY DEVIATION FROM THE ABOVE WILL NOT BE PERMITTED UNLESS COMPACTION OPERATIONS.
- 26. ALL BACKFILL AND FILLS WITHIN STREET RIGHT-OF-WAY SHALL BE COMPACTED IN ACCORDANCE WITH TDOT REQUIREMENTS UNLESS OTHERWISE NOTED. THE SOIL COMPACTION SHALL BE MONITORED AND CERTIFIED BY A GEOTECHNICAL ENGINEER.
- 27. SUFFICIENT TESTS OF FILL SOILS SHALL BE MADE TO VERIFY THAT THE SOIL PROPERTIES COMPLY WITH THE DESIGN REQUIREMENTS, AS DETERMINED BY THE GEOTECHNICAL ENGINEER. TESTS INCLUDE, BUT NOT LIMITED TO, THE FOLLOWING: SOIL TYPE CLASSIFICATION, SHEAR STRENGTH, PERMEABILITY, AND UNIT WEIGHT.
- 28. ROCK OR SIMILAR MATERIAL GREATER THAN 2 INCHES IN DIAMETER SHALL NOT BE PLACED IN THE FILL UNLESS RECOMMENDATIONS FOR SUCH PLACEMENT HAVE BEEN SUBMITTED BY THE GEOTECHNICAL ENGINEER AND APPROVED IN ADVANCE BY THE ENGINEER
- 29. AN ON-SITE SOILS ENGINEER SHALL OBSERVE, INSPECT AND TEST ALL EARTHWORK OPERATIONS INCLUDING, BUT NOT LIMITED TO SUB GRADE PREPARATION, STRUCTURAL PREPARATION, STRUCTURAL AND TRENCH EXCAVATION AND BACKFILL, AND PLACEMENT AND COMPACTION OF FILL.

- 1. LAYOUT FOR NEW CONSTRUCTION IS RELATIVE TO CONTROL POINTS AS IDENTIFIED BY SURVEYING SERVICES, INC.
- ALL PAVEMENT STRIPING SHALL MATCH EXISTING STRIPING, UNLESS INSTRUCTED OTHERWISE BY TDOT. PAINT SHALL BE IN ACCORDANCE WITH G. PERFORM BUILDING FOUNDATION INSTALLATION.
- CONTRACTOR TO UTILIZE BENCHMARKS AND HORIZONTAL CONTROL AS PROVIDED ON SITE SURVEY DOCUMENTS PREPARED BY SURVEYING SERVICES. INC. CONTRACTOR TO PROVIDE AT LEAST 2 HORIZONTAL AND VERTICAL CONTROL POINTS WITHIN PROJECT AREA FOR LAYOUT AND ELEVATION CONTROL.

**EROSION AND SEDIMENT CONTROL NOTES** 

A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) HAS BEEN PREPARED FOR THE PROJECT. ALL CONTRACTORS AND SUBCONTRACTORS SHALL COMPLY WITH THE PRACTICES AND MEASURES DESCRIBED IN THE

PERMIT AT LEAST 30 DAYS PRIOR TO INITIATING GROUND-DISTURBING

ACTIVITIES. COORDINATE PERMIT WITH OWNER'S REPRESENTATIVE.

- SWPPP AND AS DIRECTED BY OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL APPLY FOR AND OBTAIN A PERMIT FROM THE TDEC ACCORDANCE WITH NPDES REQUIREMENTS. IMPLEMENT THE FOLLOWING AS A CO-PERMITTEE UNDER THE PROJECT CONSTRUCTION STORM WATER
- ENGINEERED FILL IN MAXIMUM 8" COMPACTED LIFTS WITH DENSITY OF 95% 3. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING, INSTALLING AND MAINTAINING ALL FROSION AND SEDIMENT CONTROL MEASURES (BEST MANAGEMENT PRACTICE MEASURES OR BMP'S) IN ACCORDANCE WITH CONTRACT DOCUMENTS AND TDEC EROSION & SEDIMENT CONTROL HANDBOOK.
  - ANY EROSION AND SEDIMENT FROM WORK ON THIS SITE SHALL BE CONTAINED ON THE SITE AND NOT ALLOWED TO COLLECT IN ANY OFF-SITE AREAS OR IN WATERWAYS. WATERWAYS INCLUDE NATURAL AND MANMADE 3 OPEN DITCHES, STREAMS, STORM DRAINS, LAKE AND PONDS.
  - DIRECT ALL DEWATERING ACTIVITIES TO THE STORM SYSTEM. PASS ALL WATER THROUGH A FILTER PRIOR TO OUT LETTING TO THE SYSTEM.
  - CONSTRUCT AND MAINTAIN INLET FILTER AT ALL CATCH BASINS AND INLET STRUCTURES THAT HAVE THE POTENTIAL TO RECEIVE SEDIMENT LADEN RUNOFF UNTIL PERMANENT MEASURES ARE IN PLACE.
  - ENSURE SOIL AND DEBRIS FROM THE SITE REMAINS ON SITE THROUGH THE USE OF CLEAN STONE EXITS. DIRECT ALL CONSTRUCTION TRAFFIC TO THESE
  - 8. CONTROL DUST AT ALL TIMES DURING CONSTRUCTION.

SEEDING AND MULCHING.

- SEEDING SHOULD ONLY BE APPLIED ACCORDING TO THE SEEDING SCHEDULE IN THE TDEC EROSION AND SEDIMENT CONTROL HANDBOOK AND SPEC SECTION 329200. ALL SEEDED AREAS SHALL BE WATERED, FERTILIZED AND RE-SEEDED AS NECESSARY IN ACCORDANCE WITH SPEC SECTION 329200.
- 10. ALTERNATIVE METHODS OF SURFACE STABILIZATION, AS APPROVED BY THE PROJECT ENGINEER SHALL BE USED DURING PERIODS NOT FEASIBLE FOR
- 11. ALL CONTRACTORS AND SUBCONTRACTORS PERFORMING WORK ON THIS SITE SHALL RECEIVE AND BE FAMILIAR WITH THE PROJECT SWPPP AND THESE NOTES. THE CONSTRUCTION MANAGER SHALL MAINTAIN A COPY OF SIGNED RECEIPTS FROM ALL CONTRACTORS AND SUBCONTRACTORS FOR AND THESE NOTES.
- 12. ANY CONTRACTOR OR SUBCONTRACTOR WHO HAS DAY-TO-DAY OPERATIONAL CONTROL OF ACTIVITIES AT THIS PROJECT, WHICH ARE NECESSARY TO ENSURE COMPLIANCE WITH THE SWPPP FOR THE SITE, OR OTHER CONDITIONS AS SET FORTH IN THE PERMIT, MUST FILE A CO-PERMITTEE NOI WITH THE TDEC. THIS IS THE SOLE RESPONSIBILITY OF THE CO-PERMITTEE AND SHOULD BE DONE 30 DAYS BEFORE THE GROUND IS
- THIS PLAN REFLECTS AN INTERPRETATION OF SEDIMENT AND EROSION CONTROL MEASURES APPROPRIATE FOR VARIOUS STAGES OF CONSTRUCTION PROGRESS. THIS PLAN IS NOT INTENDED TO BE INCLUSIVE OF ALL SEDIMENT AND EROSION MEASURES REQUIRED THROUGHOUT CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR REVIEWING EXISTING AND PROPOSED SITE DRAINAGE SO AS TO IMPLEMENT THE MOST EFFICIENT AND APPROPRIATE METHOD OF EROSION AND SEDIMENT CONTROL THROUGHOUT THE DURATION OF CONSTRUCTION. ALL MODIFICATIONS ARE TO BE NOTED ON THE SOIL EROSION AND SEDIMENT CONTROL PLAN SHEETS, SIGNED AND DATED BY THE RESPONSIBLE PARTY.
- 14. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES INSTALLED AS PART OF THIS PROJECT AND RETURNING ALL DISTURBED AREAS BACK TO THEIR ORIGINAL CONDITION. THE CONTRACTOR MAY REMOVE TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES ONLY AFTER THE UPSTREAM WATERSHED HAS BEEN COMPLETELY STABILIZED.

# WATER UTILITY NOTES:

- 1. ALL MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH CURRENT CITY OF COVINGTON STANDARDS AND SPECIFICATIONS
- PROVIDE ALL BENDS/FITTINGS AS REQUIRED. ALL EXCAVATION AND BACKFILL SHALL BE PERFORMED BY THE CONTRACTOR.
- WATER MAINS SHALL BE INSTALLED, TESTED AND DISINFECTED UNDER THE DIRECT SUPERVISION OF THE CITY OF COVINGTON REPRESENTATIVE. THE CITY OF COVINGTON SHALL BE NOTIFIED AT LEAST THREE (3) WORKING DAYS IN ADVANCE OF ANY CONSTRUCTION ACTIVITY IN ORDER TO ARRANGE FOR INSPECTION OF THE PROJECT.
- ALL PUBLIC AND PRIVATE UTILITY COMPANIES SHALL BE NOTIFIED BY THE CONTRACTOR, IN WRITING, AT LEAST SEVEN (7) DAYS IN ADVANCE OF BEGINNING ANY CONSTRUCTION OPERATIONS.
- THE SPECIFICATIONS OF THE AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI). AMERICAN WATER WORKS ASSOCIATION (AWWA). NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) AND THE AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM) HEREIN REFERRED TO, UNLESS OTHERWISE NOTED, SHALL BE THE LATEST SPECIFICATIONS OF THE RESPECTIVE ORGANIZATIONS.
- WATER SERVICE LINES (LESS THAN 3") SHALL BE TYPE "K" COPPER TUBING AND SHALL CONFORM TO ASTM B88.
- PROVIDE ALL JOINT RESTRAINTS AND THRUST BLOCKS IN ACCORDANCE WITH THE CURRENT EDITION OF NFPA 24, AND THE CURRENT CONSTRUCTION STANDARDS OF THE CITY OF COVINGTON.
- WHERE PIPE DEFLECTIONS ARE GREATER THAN ALLOWABLE MANUFACTURER'S REQUIREMENTS, VERTICAL OR HORIZONTAL BENDS SHALL BE INSTALLED
- INSTALLATION AND PRESSURE TESTING SHALL BE AS PER AWWA C-605. DISINFECTION SHALL MEET OR EXCEED AWWA C-651. NO DEVIATIONS FROM THE ABOVE SPECIFICATIONS WILL BE PERMITTED.
- SPECIFICALLY INCLUDED IN THE GENERAL NOTES OR OTHERWISE SHOWN ON THESE PLANS. IN CASES WHERE ONE OR MORE OF THE ABOVE-MENTIONED STANDARDS FALL SHORT OF THE CITY OF COVINGTON STANDARDS, THE LATTER SHALL GOVERN.
- 11. THE TENNESSEE ENVIRONMENTAL PROTECTION AGENCY REQUIRES A CONFORMANCE TO THE LATEST EDITION OF "RECOMMENDED STANDARDS FOR WATER WORKS". THIS STANDARD SHALL BE EQUALED OR EXCEEDED FOR WATER LINES. SPECIAL ATTENTION SHALL BE GIVEN TO THE FOLLOWING
- MATERIALS CONFORM TO AWWA STANDARDS MINIMUM 6" DIA. FIRE PROTECTION
- MINIMUM 3.5' GROUND COVER PRESSURE TESTING AWWA C-605 OR NFPA 24
- DISINFECTION AWWA C-651 10' HORIZONTAL SEPARATION WATER MAIN/SEWER
- 18" VERTICAL SEPARATION WATER MAIN/SEWER H. NO ENTRY AND/OR CONTACT WITH SEWER MANHOLE

# 12. CONSTRUCTION SEQUENCE:

RECEIVE PERMIT COVERAGE FROM TDEC. CONDUCT PRE-CONSTRUCTION MEETING ONSITE

CONSTRUCT PROPOSED PAVEMENTS.

M. SUBMIT NOTICE OF TERMINATION (NOT)

- INSTALL CONSTRUCTION FENCING AND GATES. INSTALL EROSION AND SEDIMENT CONTROL MEASURES AND SILT FILTER
- FABRIC FENCE FOR PERIMETER CONTROL PERFORM DEMOLITIONS AND REMOVALS OF EXISTING IMPROVEMENTS.
- ROUGH GRADE AND STOCKPILE EARTHEN MATERIAL.
- TDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. H. PROVIDE TEMPORARY STABILIZATION AND SEDIMENT CONTROL FOR TOPSOIL STOCKPILES AND AREAS TO BE EXPOSED OVER 21-DAYS WITHIN 7 DAYS. INSTALL NEW UNDERGROUND UTILITIES.
  - PERFORM FINISHED SITE GRADING. INSTALL PERMANENT STABILIZATION, INCLUDING SEEDING WITHIN 7 DAYS OF FINAL GRADING

SWPPP MAINTENANCE SCHEDULE NOTES

A CONTRACTOR / INSPECTOR SHALL INSPECT THE SOIL EROSION AND SEDIMENT CONTROL DEVICES TWICE EACH WEEK AT NO GREATER THAN 72 HOURS APART AND WITHIN TWENTY-FOUR (24) HOURS OF A PRECIPITATION EVENT WHICH RESULTS IN A STORM WATER DISCHARGE FROM THE SITE. A LOG OF INSPECTION REPORTS SHALL BE MAINTAINED AND ACCESSIBLE IN

STEPS IF ANY DAMAGE HAS RESULTED FROM CONSTRUCTION OR WEAR. STABILIZED CONSTRUCTION ACCESS (CLEAN STONE EXITS) MUST BE MAINTAINED AS NECESSARY. ADD ADDITIONAL STONE WHEN ACCESS ROAD BECOMES INEFFECTIVE DUE TO LOSS OF STONE OR COVERED WITH MUD.

- 2. INSPECT INLET FILTERS FOR BUILD-UP OF SILT AND OTHER DEBRIS. EXCESSIVE BUILD-UP IS EVIDENT IF GEOTEXTILE IS CAUSING FLOODING. MAINTENANCE CONSISTS OF REMOVING ALL SEDIMENT WITH A STIFF BRISTLE BROOM OR SQUARE POINT SHOVEL. IF INLET FILTER IS BEYOND THIS LEVEL OF REPAIR, IT MAY BE NECESSARY TO REPLACE THE GEOTEXTILE FILTER FABRIC.
- PREPARE EROSION CONTROL SEEDING ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS. THE CONTRACTOR / INSPECTOR SHALL INSPECT THE AREA AFTER SEEDING IS COMPLETED. REPAIR AREAS THAT ARE BARE OR NOT MULCHED PROPERLY BY SPOT SEEDING AND / OR RE-MULCHING.
- MAINTAIN DUST CONTROL AT ALL TIMES DURING CONSTRUCTION. SPRINKLING TANK TRUCKS SHALL BE AVAILABLE AT ALL TIMES AND USED ON HAUL ROADS, ON-SITE DISTURBED AREAS, OR OTHER PLACES WHERE DUST BECOMES A PROBLEM AS A RESULT OF CONSTRUCTION EFFORTS.
- PROMPTLY REMOVE ALL MUD, DIRT AND DEBRIS TRACKED ONTO EXISTING ROADS FROM THIS SITE.
- SILTATION CONTROL FENCE SHOULD BE TRENCHED IN. BACKFILLED. AND STAPLED OR STAKED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS. MAINTENANCE INCLUDES THE REMOVAL OF BUILT-UP SEDIMENT WHEN THE SEDIMENT ACCUMULATES TO 1/3 OF THE HEIGHT OF THE FENCE. CONTRACTOR MAY HAVE TO REMOVE, REPLACE, RETRENCH, OR RE-BACKFILL THE FENCE IF IT FAILS. IT WOULD ALSO BE NECESSARY TO REINSTALL IF ANY PORTION OF THE FENCING WAS DAMAGED BY CONSTRUCTION MACHINERY.

## STORM DRAINAGE NOTES

- MATERIALS AND TESTING SHALL BE IN ACCORDANCE WITH TDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
- INSTALL STORM PIPE WITH A MINIMUM OF 2 FEET OF COVER UNLESS OTHERWISE NOTED.
- RECEIPT AND REVIEW OF THE STORM WATER POLLUTION PREVENTION PLAN, 3. PROVIDE PRECAST CONCRETE SPLASH BLOCK FOR ALL DOWNSPOUTS. SEE ARCHITECTURAL PLAN FOR LOCATIONS.
  - 4. PROVIDE A WATERTIGHT CONNECTION AT ALL NEW STRUCTURES BY USING A BOOT CONNECTION. IF EXISTING STRUCTURES CANNOT BE CORE
  - DRILLED A WATER STOP AND NON-SHRINKING GROUT MAY BE USED. INSTALL ALL STORM SEWER PIPING IN ACCORDANCE WITH
  - 6. ALL PIPE BEDDING TYPES ARE TO BE IN ACCORDANCE WITH TDOT ROADWAY CONSTRUCTION SPECIFICATIONS AND PROJECT SPECIFICATIONS.
  - ALL PIPE BACKFILL TYPES ARE TO BE IN ACCORDANCE WITH TDOT ROADWAY CONSTRUCTION SPECIFICATIONS AND PROJECT SPECIFICATIONS.

MANUFACTURERS REQUIREMENTS AND SPECIFICATIONS.

GRANULAR MATERIAL SHALL BE USED FOR BACK FILLING ALL TRENCHES UNDER THE PAVEMENT AND/OR ANY PORTION OF THE TRENCH THAT IS WITHIN THREE (3) FEET OF THE PAVEMENT EDGE OR CURB. PAVEMENT SHALL INCLUDE BUT IS NOT LIMITED TO ROADWAYS, SIDEWALKS, SERVICE WALKS, DRIVEWAYS APPROACHES, PARKING LOTS OR ANY PROPOSED PAVED SURFACE.

# REMOVAL NOTES:

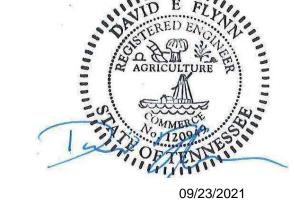
MANNER.

- ALL REMOVALS NECESSARY TO ACCOMPLISH THE PROPOSED WORK ARE TO BE COORDINATED WITH DEMOLITIONS AND REMOVALS PERFORMED BY OWNER. A CAREFUL INSPECTION OF THE PREMISES PRIOR TO BIDDING SHALL BE MADE BY EACH BIDDER.
- 2. PROTECT EXISTING BUILDINGS, UTILITIES, AND/OR STRUCTURES TO REMAIN AS NECESSARY. A MINIMUM SPACING OF 5' FROM UTILITY POLES SHALL BE KEPT, CONFLICTS TO BE COORDINATED WITH ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO EXISTING
- IMPROVEMENTS RESULTING FROM CONSTRUCTION ACTIVITY. ANY CONCRETE WALK, CURB AND/OR PAVEMENT REMOVALS SHALL BE SAW
- CUT TO FULL DEPTH TO THE NEAREST JOINT WITH CLEAN LINES. ADJUST THE VERTICAL AND HORIZONTAL LOCATION OF EXISTING UTILITY STRUCTURES TO REMAIN AS NECESSARY TO PREVENT CONFLICT WITH PROPOSED NEW CONSTRUCTION AND MAKE FLUSH WITH PROPOSED GRADES WHERE APPLICABLE. COORDINATE ALL RELOCATIONS WITH
- THE CONTRACTOR SHALL PROVIDE BARRIERS OR OTHER PROTECTION TO KEEP VEHICULAR AND PEDESTRIAN TRAFFIC FROM THE CONSTRUCTION

PROMPTLY REMOVE ALL DEMOLITIONS, REMOVALS, RUBBISH, AND DEBRIS

FROM THE LIMITS OF THE OWNER'S PROPERTY AND DISPOSE OF IN A LEGAL

UTILITY OWNER AND NOTIFY CONSTRUCTION MANAGER.



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STATE OF TN 529/000-02-2010-05

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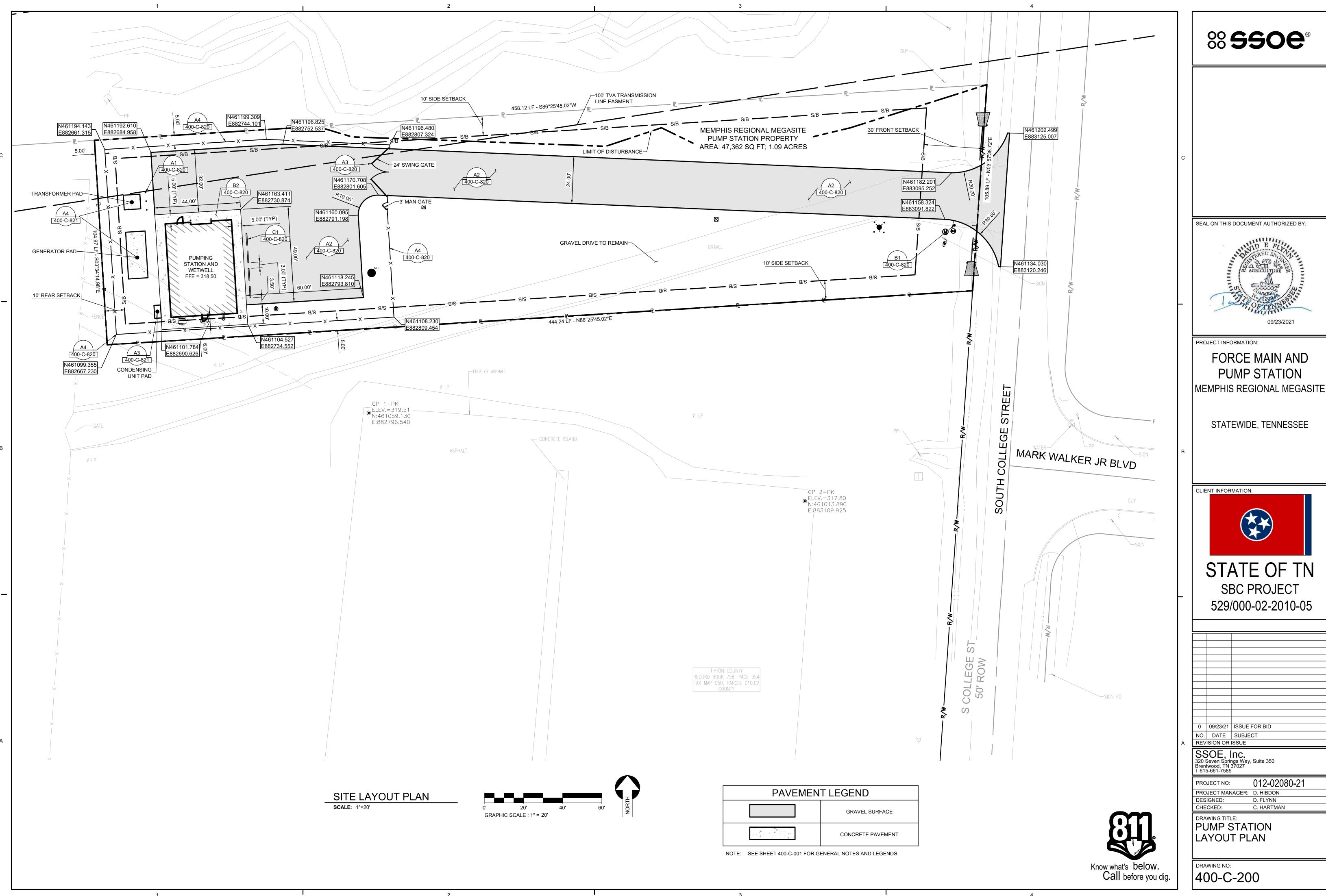
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012-02080-21 PROJECT NO: PROJECT MANAGER: D. HIBDON DESIGNED: D. FLYNN C. HARTMAN CHECKED

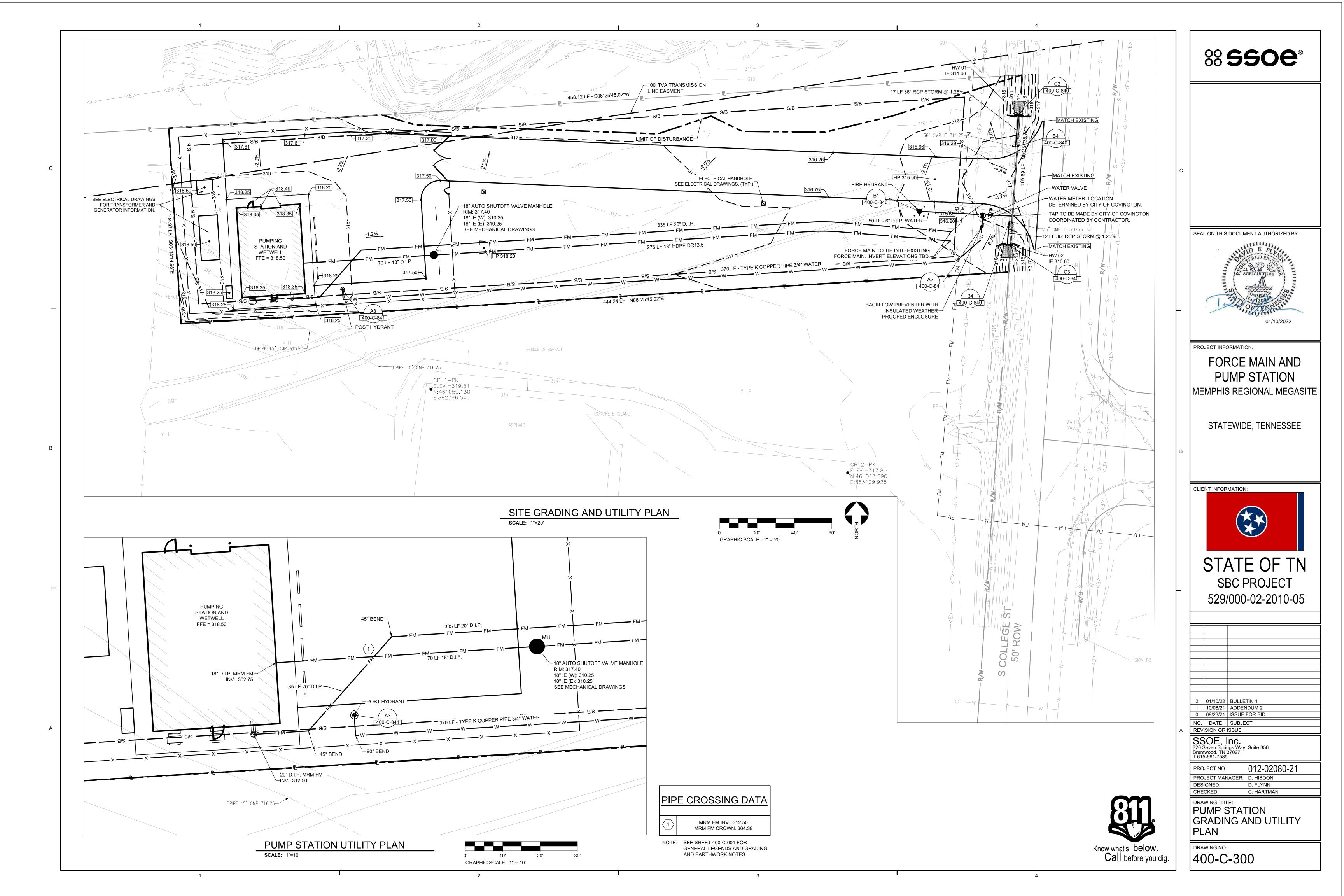
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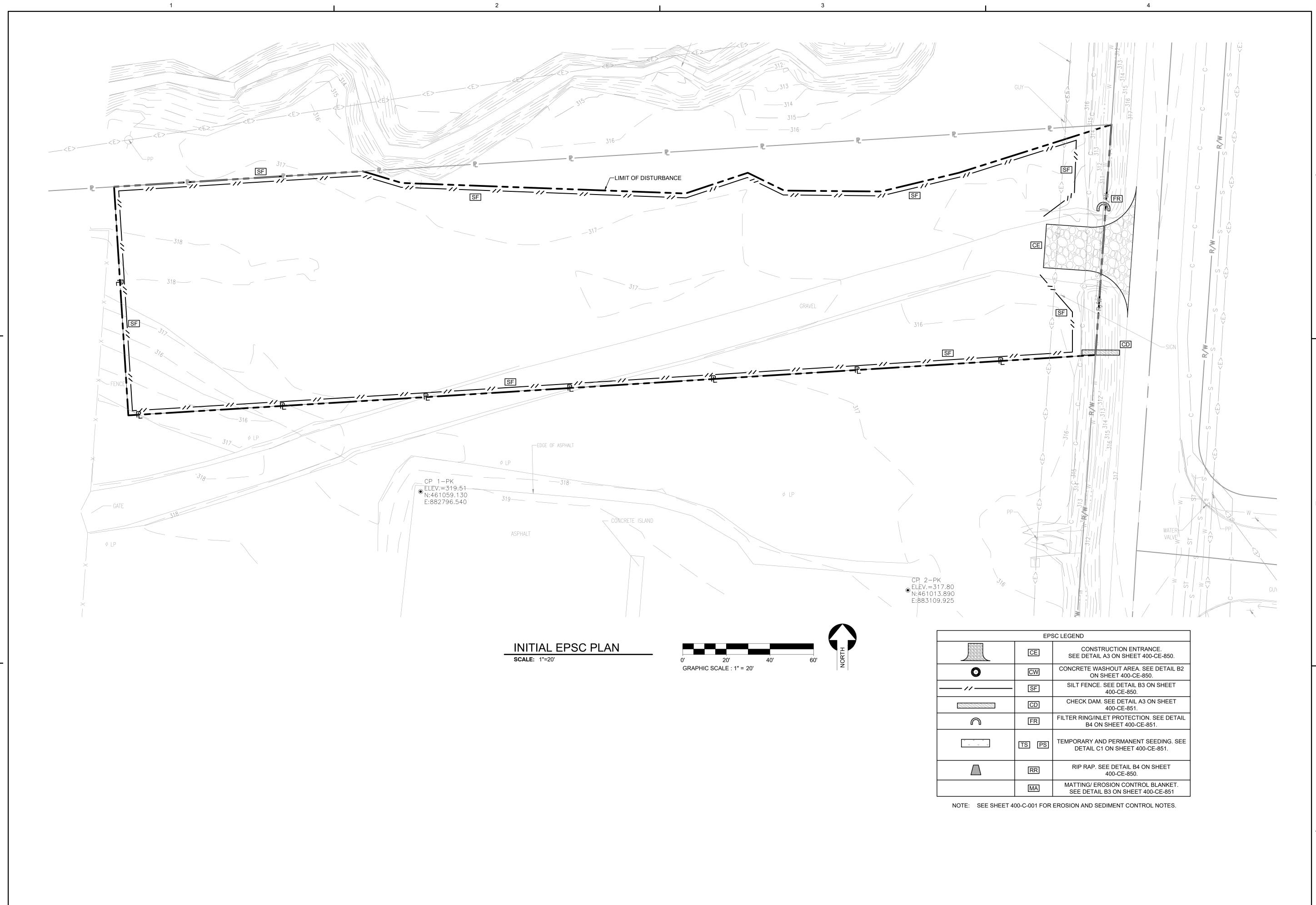
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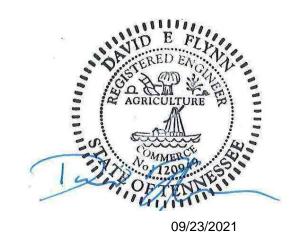






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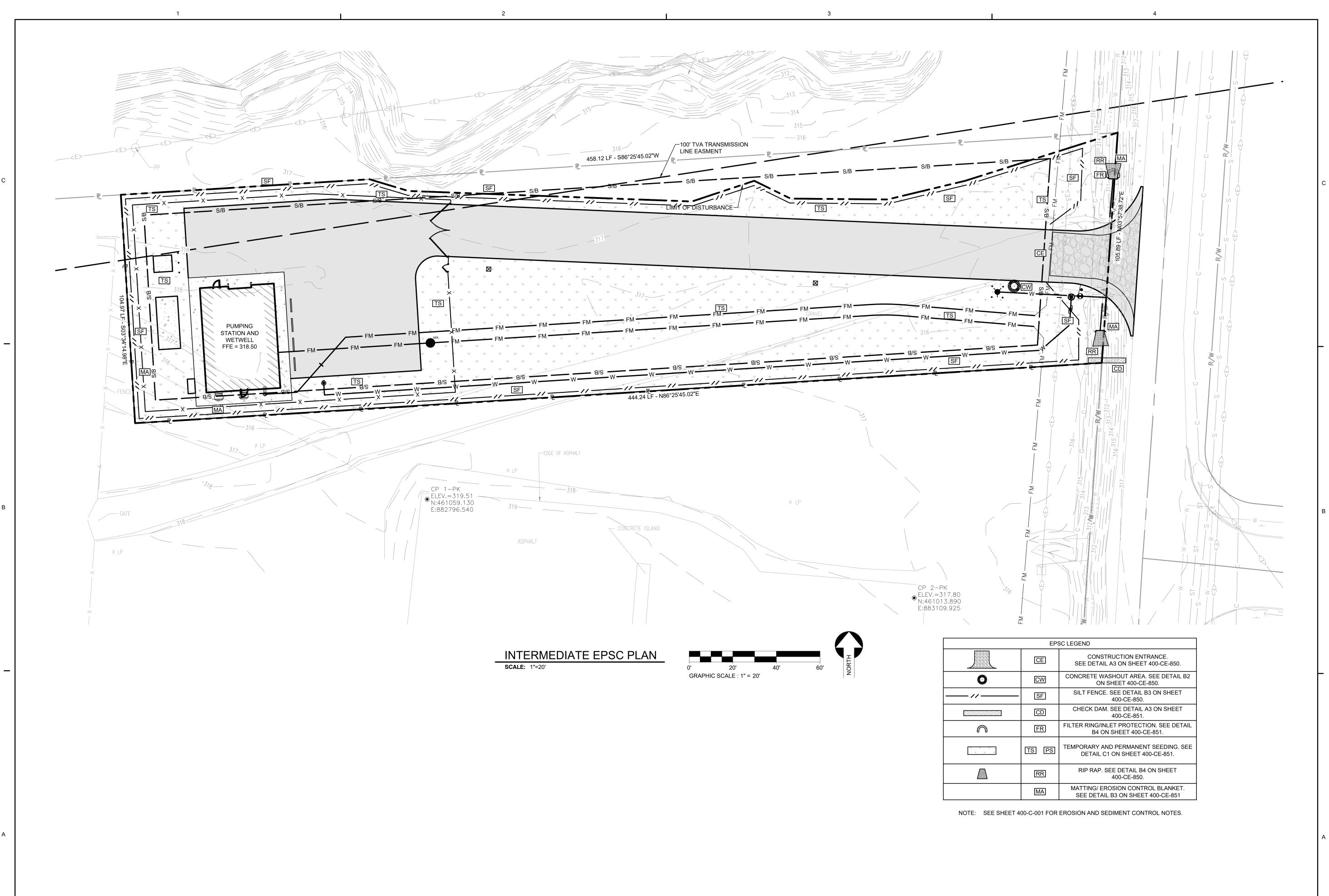
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Brentwood, TN 37027
T 615-661-7585

PROJECT NO: 012-02080-21

PROJECT MANAGER: D. HIBDON
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PROJECT MANAGER: D. HIBDON
DESIGNED: D. FLYNN

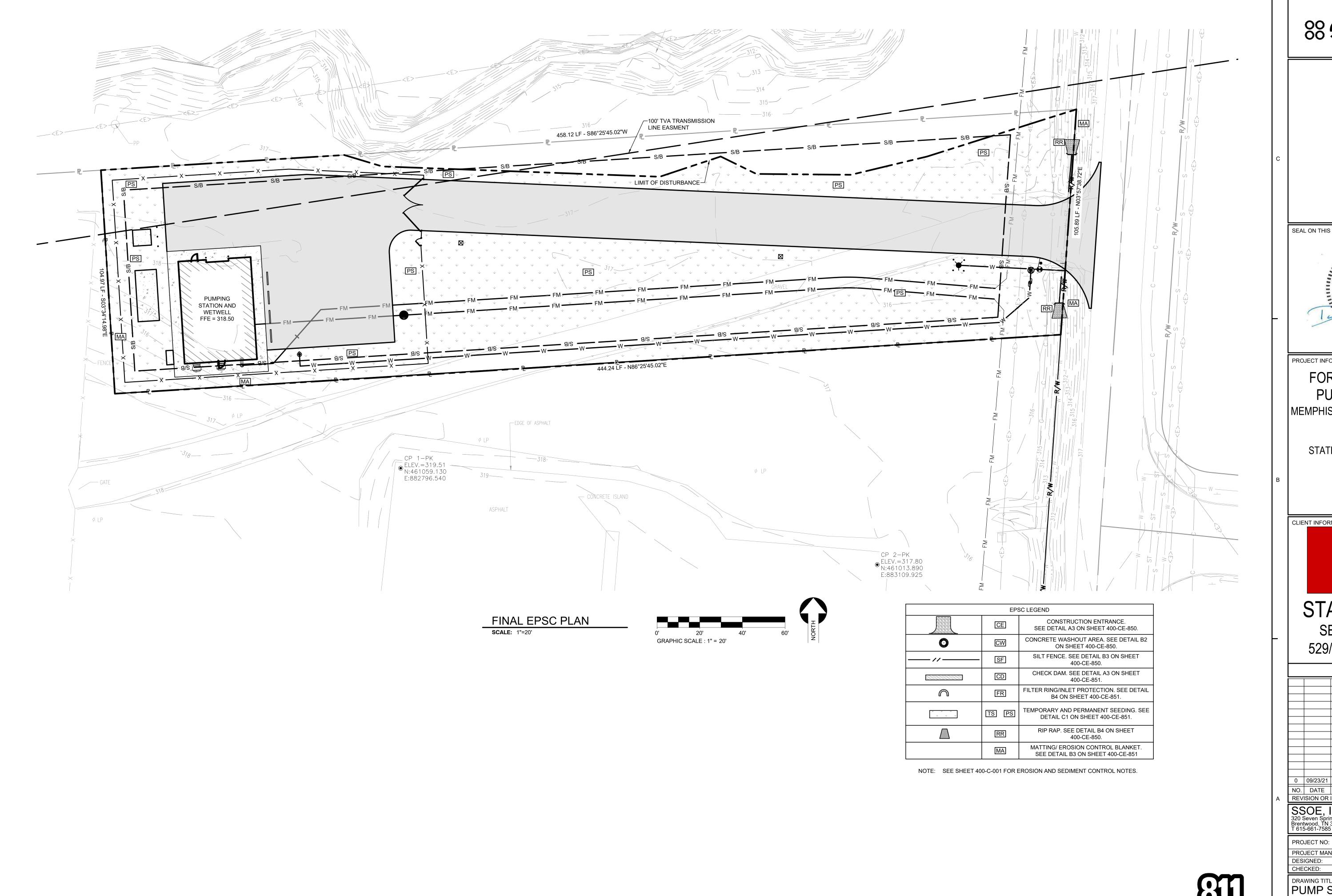
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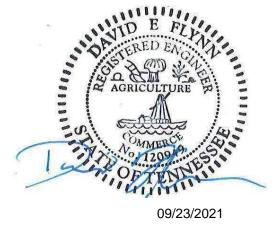
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