USGS TOPOGRAPHIC QUADRANGLE, 7.5-MINUTE SERIES - CROSSVILLE | TENNESSEE - CUMBERLAND COUNTY

PROJECT SITE
TOTAL PROPERTY - 1.84± ACRES TOTAL DISTURBANCE AREA - 0.98± ACRES LAT: N 35.925731° LONG: W -85.005784° COUNTY: CUMBERLAND, MAP 127A, GROUP A, PARCEL 035.00 OFF HIGHWAY 127 SOUTH CROSSVILLE, TENNESSEE 38555

## **ENGINEERING & CONSTRUCTION PLANS**

# TIME FOR TRAVEL RV PARK SOUTH MAIN STREET CROSSVILLE, TENNESSEE

FOR: TIME FOR TRAVEL, LLC. 2406 OPEN RANGE ROAD CROSSVILLE, CUMBERLAND, TENNESSEE

### ECE SERVICES PROJECT # 23559

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P <sub>L</sub>	EXISTING PROPERTY LINE	———— T——	EXISTING PROPERTY LINE	⋈PRV	EXISTING WATER PRESSURE REDUCING VALVE	GR	PROPOSED GUARD RAIL	LP	PROPOSED LIGHT POLE			
	EXISTING ADJOINING PROPERTY LINE	——————————————————————————————————————	EXISTING PROPERTY LINE	<b>©</b> мн	EXISTING SANITARY SEWER MANHOLE	1720	PROPOSED SURFACE CONTOUR	↓ <sub>GW</sub>	PROPOSED GUY WIRE			
ROW _	EXISTING RIGHT OF WAY	△ CP	EXISTING CONTROL POINT	⊙ CO	EXISTING SANITARY SEWER CLEAN OUT	10in ST —	PROPOSED STORM SEWER LINE	GP GP	PROPOSED GUY POLE	ANATOD OVODDA		
10ft FRONT <sub>SB-E</sub> –	EXISTING SET BACK LINE		EXISTING SITE BENCH MARK	GT	EXISTING GREASE TRAP	THASE P	PROPOSED ELECTRIC OVERHEAD	<b>G</b> GM	PROPOSED NATURAL GAS METER	WATER SYSTEM: CITY OF CROSSVILLE 392 NORTH MAIN STREET		
10ft CONST. EASEMENT	EXISTING CONSTRUCTION EASEMENT	<b>⊕</b> ВН	EXISTING BORE HOLE	⋈SV	EXISTING LOW PRESSURE SANITARY SEWER VALVE	1 PHASE	PROPOSED ELECTRIC UNDER GROUND	₩GV	PROPOSED NATURAL GAS VALVE	CROSSVILLE, TN. 38555 931.484.5114		
10ft PERM. EASEMENT	EXISTING PERMANENT EASEMENT	<b>©</b> IPF	EXISTING PROPERTY IRON PIN FOUND		EXISTING BUILDING	10in W	PROPOSED WATER LINE	w wm	PROPOSED WATER METER	SANITARY SEWER SYSTEM:		
<u>WOVEN</u> X — –	EXISTING FENCE	O PC	EXISTING PROPERTY CORNER		EXISTING BUILDING CONCRETE	- 8in PVC SS -	PROPOSED SANITARY SEWER LINE	<b>₩</b> WV	PROPOSED WATER VALVE	CITY OF CROSSVILLE 392 NORTH MAIN STREET		
6in PVCV FIRE LINE	- EXISTING FIRE LINE	<b>†</b> GRV	EXISTING GRAVE MARKER		EXISTING PAVEMENT LIGHT DUTY	— 3in PVC LPS —	PROPOSED LOW PRESSURE SANITARY SEWER LINE	<b>▶</b> FH	PROPOSED FIRE HYDRANT ASSEMBLY	CROSSVILLE, TN 38555 931.484.5114		
	EXISTING TREE LINE	Т мв	EXISTING MAILBOX		EXISTING PAVEMENT HEAVY DUTY	SA EFF	PROPOSED SANITARY EFFLUENT LINE	<b>⋈</b> PRV	PROPOSED WATER PRESSURE REDUCER VALVE	NATURAL GAS SYSTEM: MIDDLE TENNESSEE NATURAL GAS		
————— GR——	EXISTING GUARD RAIL	<b>⊟</b> CB	EXISTING CATCH BASIN		EXISTING PAVEMENT CONCRETE		PROPOSED FUTURE SANITARY EFFLUENT LINE	<b>()</b> МН	PROPOSED SANITARY SEWER MANHOLE	P.O. BOX 3289 CROSSVILLE, TN. 38557		
—— · 1720 · ——	EXISTING SURFACE CONTOUR	( whw	EXISTING WINGED HEAD WALL		EXISTING ROAD GRAVEL	— 2in PE G —	PROPOSED NATURAL GAS LINE	<b>O</b> CO	PROPOSED SANITARY SEWER CLEAN OUT	931.484.2067		
	EXISTING STREAM	⟨E⟩ EM	EXISTING ELECTRIC METER			<del></del>	PROPOSED FLOW ARROW	GT	PROPOSED GREASE TRAP	ELECTRIC SYSTEM: VOLUNTEER ELECTRIC COOPERATIVE		
	EXISTING STREAM RIPARIAN BUFFER	O UP	EXISTING UTILITY POLE	P <sub>L</sub>	PROPOSED PROPERTY LINE	т	PROPOSED TELEPHONE OVERHEAD	►SV	PROPOSED SANITARY SEWER VALVE	235 OBRIEN DR. CROSSVILLE, TN 38555 931.44.3527		
10in ST	EXISTING STORM WATER LINE	Ö LP	EXISTING LIGHT POLE	ROW —	PROPOSED RIGHT OF WAY	—— UG-T ——	PROPOSED TELEPHONE UNDER GROUND		PROPOSED BUILDING	TELEPHONE/COMMUNICATION	ONS SYSTEM:	
1	EXISTING ELECTRIC OVERHEAD	↓ gw	EXISTING GUY WIRE	LOD	PROPOSED LIMIT OF DISTURBANCE	вм	PROPOSED SITE BENCH MARK		PROPOSED BUILDING CONCRETE	CITIZENS COMMUNICATIONS, INC. 174 SPARTA HWY.	VOLUNTEER FIRST SERVICE, INC VOLFIRST 205 OBRIEN DR	
— 1 UG-P —	EXISTING ELECTRIC UNDER GROUND	↑ ⊙ GP	EXISTING GUY POLE	10ft FRONT SET BACK	PROPOSED SET BACK LINE	<b>⊕</b> вн	PROPOSED BORE HOLE		PROPOSED PAVEMENT LIGHT DUTY	CROSSVILLE, TN 38555 1.800.921.8101	CROSSVILLE, TN 38555 931.484.5097	
$-\frac{10 \text{in}}{\text{PVC}}$ W — –	EXISTING WATER LINE	G GM	EXISTING NATURAL GAS METER	10ft CONST. EASEMENT	PROPOSED CONSTRUCTION EASEMENT	<b>©</b> IPS	PROPOSED IRON PIN SET		PROPOSED PAVEMENT HEAVY DUTY	CABLE TV (CATV) SYSTEM: CITIZENS COMMUNICATIONS. INC.		
— <u>8in</u> — SS —	EXISTING SANITARY SEWER LINE	⋈GV	EXISTING NATURAL GAS VALVE	10ft PERM. EASEMENT	PROPOSED PERMANENT EASEMENT	<b>СВ</b>	PROPOSED CATCH BASIN		PROPOSED PAVEMENT CONCRETE	174 SPARTA HWY. CROSSVILLE, TN 38555		
— 3in — LPS —	EXISTING LOW PRESSURE SANITARY SEWER LINE	⟨w⟩ wm	EXISTING WATER METER	WOVENX WIRE	PROPOSED FENCE LINE	<b>€</b> whw	PROPOSED WINGED HEAD WALL		PROPOSED ROAD GRAVEL	1.800.921.8101		
— <u>2in</u> G — –	EXISTING NATURAL GAS LINE	⋈WV	EXISTING WATER VALVE	6in PVC FIRE LINE	PROPOSED WATER FIRE LINE	E EM	PROPOSED ELECTRIC METER		PROPOSED PRIMARY ABSORPTION FIELD			
	EXISTING FLOW ARROW	<b>∀</b> FH	EXISTING FIRE HYDRANT		PROPOSED TREE LINE	CD UP	PROPOSED UTILITY POLE		PROPOSED DUPLICATION ABSORPTION FIELD			

SHEET SYMBOL LEGEND

### **SCOPE**

LOCAL UTILITY PROVIDERS

DEVELOPMENT OF A OPEN LOT TO A 13 SITE RV PARK. SITE WORK TO INCLUDE GRADING FOR AN ACCESS ROAD OFF SOUTH MAIN STREET AND GRAHAM ROAD, GRADING FOR RV PADS, UTILITY INSTALLATION FOR RV PADS (SEWER, WATER, ELECTRIC, ETC.) AND TWO PRE-BUILT BUILDINGS FOR THE OFFICE AND BATHHOUSE.

# **ENVIRONMENTAL & CIVIL ENGINEERING SERVICES**

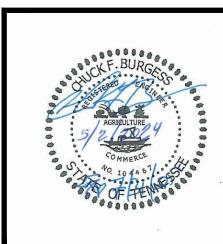
CROSSVILLE | MOUNT JULIET 702 Old Jamestown Hwy Crossville, TN 38555

Crossville | 931.484.9321 Mount Juliet | 615.863.3237

www.ece-engineering.com



**ENGINEERING ◆ GEOTECHNICAL ◆ ENVIRONMENTAL** 



SHEET REFERENCE NUMBER:

SHEET 1 OF 1

G-001

- REFERENCE STANDARDS: ALL CONSTRUCTION SHALL COMPLY WITH ALL OF THE APPLICABLE REQUIREMENTS OF THE FOLLOWING DRAWINGS, SPECIFICATIONS, AND STANDARDS:
- A. PROIECT PLANS AND SPECIFICATIONS.

OR FEDERAL REGULATIONS.

- B. EXISTING PERMITS IN EFFECT FOR THE PROJECT.
- C. ANY LOCAL GOVERNING UTILITY REQUIREMENTS OR STANDARDS.
- D. INTERNATIONAL BUILDING CODE, LATEST EDITION OR REQUIRED LOCAL AUTHORITY EDITION.
- E. ACI 304, AMERICAN CONCRETE INSTITUTE GUIDE FOR MEASURING, MIXING, TRANSPORTING, AND PLACING CONCRETE.
- F. ACI 318, AMERICAN CONCRETE INSTITUTE BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE.
- G. ACI 318, AMERICAN CONCRETE INSTITUTE BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE.
- H. ACI 350, AMERICAN CONCRETE INSTITUTE CODE REQUIREMENTS FOR ENVIRONMENTAL ENGINEERING CONCRETE STRUCTURES AND COMMENTARY.
- I. ACI 360R, AMERICAN CONCRETE INSTITUTE GUIDE TO DESIGN OF SLABS-ON-GROUND.
- J. STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION. K. TENNESSEE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.
- L. NATIONAL ELECTRIC CODE. LATEST EDITION OR REQUIRED LOCAL AUTHORITY EDITION.
- IN THE EVENT OF AN APPARENT DISCREPANCY IN THE ABOVE REQUIREMENTS, THE CONTRACTOR SHALL COMPLY WITH THE MORE STRINGENT REQUIREMENT. THE ENGINEER WILL BE THE JUDGE OF WHICH REQUIREMENT IS MORE STRINGENT
- PERMITS: THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS FOR THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH 7. THE PROVISIONS OF ALL PERMITS. NO CONSTRUCTION ACTIVITY SHALL BEGIN BEFORE OBTAINING ALL THE NECESSARY PERMITS UNDER LOCAL, STATE, OR FEDERAL REGULATIONS. SUPPOSE THE CONSTRUCTION ACTIVITY DISTURBS MORE THAN ONE ACRE DUE TO THE METHODS OF THE CONTRACTOR. IN THAT CASE, THE CONTRACTOR SHALL OBTAIN A STORMWATER PERMIT FOR CONSTRUCTION ACTIVITY FROM THE TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION AND SHALL COMPLY WITH ALL APPLICABLE PROVISIONS. THE OWNER, ARCHITECT, OR ENGINEER WILL NOT BE RESPONSIBLE FOR ALL FINES, AND PROJECT COST INCREASES DUE TO THE FAILURE OF THE CONTRACTOR TO OBTAIN OR COMPLY WITH ANY REQUIRED PERMITS. NO CONSTRUCTION ACTIVITY SHALL BEGIN BEFORE OBTAINING THE NECESSARY ENVIRONMENTAL PERMITS UNDER LOCAL, STATE,
- VERIFICATION OF PROJECT CONDITIONS: THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, HORIZONTAL LOCATIONS, AND VERTICAL ELEVATIONS OR ANY OTHER CONDITIONS THAT ARE EXISTING AND OF THE WORK BEFORE COMMENCING CONSTRUCTION OPERATIONS AND IMMEDIATELY NOTIFY THE ENGINEER OF ANY CONFLICTS OR DISCREPANCIES. THE CONTRACTOR'S FAILURE TO IMMEDIATELY NOTIFY THE ENGINEER BEFORE COMMENCING WORK SHALL CONSTITUTE THE CONTRACTOR'S ACCEPTANCE OF THE CONDITION(S) AND RELEASE OF ANY CLAIMS FOR AN ADDITIONAL COST.
- MODIFICATIONS: NO VARIATION, MODIFICATION, OR ALTERATION SHALL BE MADE FROM THIS PLAN WITHOUT THE EXPRESS APPROVAL OF THE ENGINEER.
- SEE ARCHITECTURAL PLANS FOR DIMENSIONS OF AREAS ADJACENT TO THE BUILDING.
- THE CONTRACTOR SHALL ADHERE TO THE NOISE ORDINANCE OF THE CONTROLLING MUNICIPAL AUTHORITY.
- THE OWNER REQUIRES THE CONTRACTOR TO SUBMIT A SCHEDULE FOR PROPOSED WORK FOR APPROVAL BEFORE BEGINNING ANY WORK. THE CONTRACTOR WILL COORDINATE ALL WORK AND WORK SCHEDULES WITH THE OWNER AND THE ENGINEERING.
- THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR APPROVAL ALL MATERIALS AND SUBCONTRACTOR SERVICES UTILIZED FOR THE PROJECT.
- THE CONTRACTOR WILL MAINTAIN A COPY OF ALL PLANS, PERMITS, AND PROJECT DOCUMENTATION ON THE PROJECT SITE AT ALL TIMES. ALL AGGREGATES SHALL CONFORM TO THE FOLLOWING SIZES OR EQUIVALENT SIZE AS APPROVED BY THE ENGINEER. LOCAL QUARRIES MAY NOT SUPPLY THESE STANDARD SIZES; PLEASE SUBMIT FOR REVIEW AND APPROVAL BASED ON LOCAL AVAILABILITY.

				Amounts Fine riths a Each Laboratory Sieve, Square organisms, Percent by Weight													
	Nomi m1Sims,																
Size	Square	Openiops	4"	3-1/ 2"	3"	2-1/2"	T.	1-1/2"	1"	3/4"	1/ 2"	3/8"	76-A	No.8	No.16	No. 50	No. 100
- 1	3-1/2	1-1/2	100	90-100	-	25-60	-	O-1 5		0-5	-	-		-	-	-	-
2	2-1/2	1-1/2	-		100	90-100	35-70	0-15	-	0-5	-	-		-	-	-	-
34	2-172	374	-	- 1	100	90-100	-	25-6C	-	G-10	0-5	-		-	-	-	
3	2	i i	-	- 1	-	100	90-100	35-70	0-+5	-	0-5	-		-	-	-	-
357	2	No. 4	-		-	100	95-100	-	35-70	-	10-30	-	0-5	-	-	-	-
4	1-1/2	374	-		-	-	100	90-100	20-55	0-15	-	0-5		-	-	-	-
467	1-1/2	No. 4	-		-	-	100	95-100	-	35-70	-	10-30	0-5	-	-	-	-
5	i i	1/2	-		-	-	-	100	90-100	20-55	0-10	<b>Q-5</b>		-	-	-	-
56	- 1	3/8	-	-	-	-	-	190	90-+00	40-25	10-40	0-15	0-5	-	-	-	
57	- 1	No. 4	-		-	-	-	100	95-100		25-80	-	0-10	0-6	-	-	-
6	374	378	-		-	-	-	-	100	90-100	20-55	0-15	0-5	-	-	-	-
67	374	No. 4	-		-	-	-	-	100	90-100	-	20-55	0-10	0-5	-	-	-
23	374	No. 8	-		-	-	-	-	100	90-100	-	30-65	5-25	0-10	0-5	-	-
7	172	No. 4	-		-	-	-			100	90-100	40-70	0-: 5	0-5	-	-	
73	172	No. 8	-		-	-	-	-	-	100	90-100	40-75	5-25	0-10	0-5	-	-
8	378	No. 8	-	-	-	-	-	-	-	-	100	85-100	10-30	d-10	d-5	-	-
99	378	No. 16	-		-	-	-	-	-	-	100	90-100	20-55	5-30	0-10	0-5	-
q	No. 4	No. 16	-		-	-	-	-	-	-	-	100	85-100	10-40	0-10	0-5	-
10	No. 4	a <sup>rı</sup>	-		-	-	-			-	-	100	85-:00	-	-	-	10.30

**11.** AGGREGATE SIZES ARE NOTED IN THE PLANS AND DETAIL SECTIONS.

- THE STORMWATER POLLUTION PREVENTION PLAN IS INCLUDED HEREIN AS PART OF THESE ENGINEERING AND CONSTRUCTION PLANS. ALL PROPOSED STORMWATER PRACTICES SHOWN ON THIS PLAN ARE IN ACCORDANCE WITH AND A PART OF THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) PREPARED FOR THIS PROJECT.
- NO VARIATION, MODIFICATION, OR ALTERATION SHALL BE MADE FROM THIS PLAN WITHOUT THE EXPRESS APPROVAL OF THE ENGINEER. THE FOLLOWING APPLICATIONS AND PERMIT REQUESTS HAVE BEEN SUBMITTED FOR THE PROPOSED PROJECT
- CITY OF CROSSVILLE LAND DISTURBANCE PERMIT
- CITY OF CROSSVILLE MS4 STORMWATER PERMIT THE OWNER/CONTRACTOR SHALL BE RESPONSIBLE FOR APPLYING FOR AND OBTAINING ALL REQUIRED PERMITS FOR THE PROJECT. INCLUDING THOSE ALREADY RECEIVED AND ANY FUTURE PERMIT. THE 8. OWNER/CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH THE PROVISIONS OF ALL PERMITS. NO CONSTRUCTION ACTIVITY SHALL BEGIN BEFORE OBTAINING ALL REQUIRED PERMITS UNDER LOCAL, STATE,
- OR FEDERAL REGULATIONS. ALL ADJACENT PROPERTIES, WATER FEATURES, AND RELATED NATURAL RESOURCES SHALL BE KEPT FREE OF DEPOSITS OR DISCHARGES OF SOIL, SEDIMENT, HAZARDOUS SUBSTANCES, OR CONSTRUCTION-RELATED

  UTILITY CONSTRUCTION | SANITARY SEWER NOTES
- MATERIAL AT THE CONSTRUCTION SITE. THE CONTRACTOR IS RESPONSIBLE FOR ANY REQUIRED EPSC INSPECTIONS AND COMPLIANCE COSTS. THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER A COPY OF THE EPSC INSPECTION FORMS ON A MONTHLY BASIS.
- THE CONTRACTOR IS REQUIRED TO PREVENT OBJECTABLE COLORED STORMWATER WATER FROM LEAVING THE PROJECT SITE, EVEN IF NO STORMWATER PERMIT IS REQUIRED.
- EROSION CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED PER TDEC'S CONSTRUCTION GENERAL PERMIT REQUIREMENTS. THE CONTROL MEASURES SHOWN IN THE DRAWINGS ARE THE MINIMUM REQUIRED, AND ADDITIONAL MEASURES MAY BE NECESSARY AS SITE CONDITIONS DICTATE. THE CONTRACTOR SHALL PROVIDE ADDITIONAL EROSION CONTROL DEVICES AS NEEDED AT NO EXTRA COST.
- EROSION AND SEDIMENT CONTROL MEASURES MUST BE INSTALLED PRIOR TO DISTURBANCE OF EXISTING GROUND COVER. THEY MUST REMAIN IN PLACE AND FUNCTIONAL THROUGHOUT THE CONSTRUCTION PERIOD. NATURAL VEGETATION SHOULD BE RETAINED AND PROTECTED WHERE FEASIBLE. ANY STORMWATER FLOWING ONTO THE PROJECT SITE SHALL BE DIVERTED SO IT WILL NOT HAVE TO BE MANAGED AS PART OF THE PROJECT STORMWATER MEASURES.
- ALL TOPSOIL TO BE STRIPPED FROM THE AREA BEING DEVELOPED SHALL BE STOCKPILED AND IMMEDIATELY SEEDED. STOCKPILE SHALL BE SURROUNDED WITH SILT FENCE AND HAVE A SHALLOW TRENCH AROUND THE PILE TO CAPTURE RUNOFF.
- ALL CUT SLOPES AND EMBANKMENTS FILL ARE TO BE IMMEDIATELY LAID BACK AND STABILIZED AS FOLLOWS:
- GRADE TO THE FINISHED SLOPE.
- TOPSOIL PLACEMENT WITH NOT LESS THAN FOUR INCHES OF SUITABLE TOPSOIL MATERIAL. d. SEED WITH HYBRID KENTUCKY 31 AT A RATE OF 6-8 LBS /1000 SF
- e. MULCHED AT A RATE OF 100 LBS /1000 SF AND ANCHOR PROPERLY.
- ALL EMBANKMENTS ARE TO BE GRADED AND SEEDED IMMEDIATELY UPON BEING LAID BACK.
- ON ALL EMBANKMENT FILL SLOPES, TOPSOIL SHALL BE STRIPPED AT LEAST FIVE (5) FEET WIDER THAN REQUIRED FOR THE EMBANKMENT TOE OF THE SLOPE. A PROTECTIVE BERM OF TOPSOIL SHALL BE LEFT IN THIS AREA. RUNNING PARALLEL TO THE CONTOURS TO RESTRICT DRAINAGE RUNOFF. THE TOPSOIL BERM SHALL BE SEEDED AS REOUIRED FOR STOCKPILES.
- PAVED AND GRAVEL SURFACES SHALL BE KEPT CLEAN AT ALL TIMES. ALL STORM DRAINAGE OUTLETS SHALL BE STABILIZED. AS REQUIRED BEFORE THE DISCHARGE POINTS BECOME OPERATIONAL
- DUST SHALL BE CONTROLLED BY SPRINKLING OR OTHER APPROVED METHODS AS NECESSARY OR AS DIRECTED BY THE ENGINEER. APPLY TEMPORARY SEEDING WHENEVER GRADING OPERATIONS ARE TEMPORARILY HALTED FOR OVER 14 DAYS, AND FINAL GRADING OF EXPOSED SURFACES IS TO BE COMPLETED WITHIN ONE YEAR. APPLY TEMPORARY
- SEEDING TO STEEP SLOPES (GREATER THAN OR EQUAL TO 3:1) WHENEVER GRADING OPERATIONS ARE TEMPORARILY HALTED FOR OVER SEVEN (7) DAYS. THE FINAL GRADING OF EXPOSED SURFACES IS TO BE COMPLETED WITHIN ONE YEAR. APPLY TEMPORARY SEEDING TO SOIL STOCKPILES. APPLY PERMANENT SEEDING WHENEVER GRADING OPERATIONS ARE COMPLETED, AND ALL CONSTRUCTION OPERATIONS WILL NOT IMPACT THE DISTURBANCE AREA. APPLY PERMANENT SEEDING TO ALL
- NON-CONSTRUCTION AREAS THAT SHOW SIGNS OF EXCESSIVE EROSION. PERMANENT SEEDING SHALL BE DROUGHT-TOLERANT, HYBRID KENTUCKY 31, JAGUAR, LANCER, REBEL II, FALCON II, OR OTHER BRANDS. SEED AT A RATE OF 6-8 LBS/ 1000 SF AND USE A SLOW-RELEASE STARTER FERTILIZER WITH 1 LBS / 1000 SE NITROGEN. IF GRADING IS PERFORMED DURING THE WINTER MONTHS. THE SEED MIXTURE SHALL BE SUPPLEMENTED WITH WINTER RYE OR OTHER APPROPRIATE VARIETY TO ASSURE STABILIZATION DURING THE WINTER SEASON
- MULCH WITH STRAW AT A RATE OF 100 LBS / 1000 SF OVER THE SEEDED AREA AND ANCHORED IN A SUITABLE MANNER. SUPPOSE THE ACTION OF VEHICLES TRAVELING OVER THE GRAVEL CONSTRUCTION EXIT IS NOT SUFFICIENT TO REMOVE THE MAJORITY OF DIRT OR MUD. IN THAT CASE, THE TIRES MUST BE WASHED BEFORE THE
- VEHICLES ENTER A PUBLIC ROAD. IF WASHING IS USED, PROVISIONS MUST BE MADE TO INTERCEPT THE WASH WATER AND TRAP THE SEDIMENT BEFORE IT IS CARRIED OFF THE SITE. ALL MATERIAL SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.
- THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF SITE CONSTRUCTION POLLUTION PREVENTION PRACTICES THROUGHOUT THE LIFE OF THE PROJECT.
- UPON COMPLETE STABILIZATION OF THE SITE, SILT FENCES AND OTHER TEMPORARY SILT BARRIERS SHALL BE REMOVED OR OTHERWISE PREVENTED FROM BECOMING A POLLUTANT SOURCE FOR STORMWATER
- THE CONTRACTOR SHALL DENOTE ON PLAN THE TEMPORARY PARKING AND STORAGE AREA, THE EQUIPMENT MAINTENANCE AND CLEANING AREA, EMPLOYEE PARKING AREA, AND AREA FOR LOCATING PORTABLE FACILITIES, CONCRETE TRUCK WASHOUT AREA, OFFICE TRAILERS, AND TOILET FACILITIES.
- ALL UNDISTURBED AREAS. INCLUDING ARCHAEOLOGICAL SITES AND STREAM BUFFERS. SHALL BE FIELD MARKED AND KEPT FREE OF CONSTRUCTION EQUIPMENT. PROPOSED STORMWATER CONTROL DITCHES, PONDS, DETENTION BASINS, AND OTHER STRUCTURES SHALL BE CLEANED OUT OF ANY SILTATION UPON COMPLETION OF GRADING OPERATIONS AND THE ESTABLISHMENT

CURRENT VERSIONS OF THE STORMWATER POLLUTION PREVENTION PLAN. THE NOTICE OF INTENT. AND THE NOTICE OF COVERAGE SHALL BE KEPT ON-SITE FOR THE DURATION OF THE PROJECT.

- OF PERMANENT VEGETATION AND EROSION CONTROLS.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER WHEN SITE STABILIZATION HAS BEEN ACHIEVED, SO A TDEC NOTICE OF TERMINATION CAN BE SUBMITTED, IF APPLICABLE. ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED UPON THE STABILIZATION, COMPLETION OF THE PROJECT, AND RECEIPT OF A TDEC NOTICE OF TERMINATION.

### EARTHWORK NOTES

- ONE-CALL NOTIFICATION: THE CONTRACTOR SHALL HAVE A COPY OF APPROVED PLANS AND SPECIFICATIONS ON-SITE AT ALL TIMES. THE CONTRACTOR SHALL NOTIFY ALL UTILITY OWNERS WITH UTILITIES IN THE ICINITY OF THE PROJECT AND THE TENNESSEE ONE-CALL SYSTEM PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITY. THE CONTRACTOR SHALL PROTECT FROM DAMAGE ALL UTILITIES THAT ARE TO REMAIN. THE PRESENCE OR ABSENCE OF ANY UTILITIES FROM THIS PLAN DOES NOT GUARANTEE THAT SUCH UTILITIES ARE OR ARE NOT PRESENT ON THE SITE OR THE LOCATION OF SUCH UTILITIES. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY CONFLICT BETWEEN EXISTING STRUCTURES OR UTILITIES AND THE PROPOSED WORK BEFORE BEGINNING THE WORK. THE CONTRACTOR WILL BE REQUIRED TO RAISE/LOWER DRAINAGE STRUCTURES, CLEANOUTS, MANHOLES, ETC. IN ORDER TO ACCOMMODATE THE REVISED FINISHED GRADE. THE CONTRACTOR MUST ALSO PROVIDE TEMPORARY UTILITIES OR PERFORM WORK IN SUCH A MANNER AS TO PREVENT DISRUPTION OF UTILITY SERVICES THROUGHOUT THE PROJECT.
- UNDERGROUND UTILITY LOCATIONS, AS SHOWN, ARE BASED UPON OBSERVABLE EVIDENCE FOUND IN THE FIELD, AND UTILITY COMPANY RECORDS WHERE AVAILABLE. UTILITY LOCATIONS ARE APPROXIMATE AND ARE SUBJECT TO FIELD VERIFICATION BY THE UTILITY OWNER. UTILITIES OTHER THAN THOSE SHOWN MAY EXIST. IN TENNESSEE, IT IS A REQUIREMENT PER THE "UNDERGROUND UTILITY DAMAGE PREVENTION ACT" THAT ANYONE WHO ENGAGES IN EXCAVATION MUST NOTIFY ALL KNOWN UNDERGROUND UTILITY OWNERS NO LESS THAN THREE NOR MORE THAN TEN WORKING DAYS OF THEIR INTENT TO EXCAVATE. A LIST OF THESE UTILITIES CAN BE OBTAINED FROM THE COUNTY REGISTER OF DEEDS. THOSE UTILITIES PARTICIPATING IN THE TENNESSEE ONE CALL SYSTEM CAN BE NOTIFIED BY CALLING 1-800-351-1111. GEOTECHNICAL REPORT: THE EARTHWORK, INCLUDING EXCAVATING, COMPACTION, SPREADING, FOUNDATION PREPARATION, AND RELATED WORK FOR THIS SITE, IS BASED ON AN ASSUMED 2,000 PSF BEARING SOIL AS
- THERE IS NO GEOTECHNICAL ENGINEERING EXPLORATION AND REPORT. THE CONTRACTOR WILL BE RESPONSIBLE FOR CONDUCTING EARTHWORK OPERATIONS IN ACCORDANCE WITH GOOD ENGINEERING PRINCIPLES. SAFE EXCAVATION PRACTICES: THE CONTRACTOR SHALL COMPLY WITH ALL REGULATORY REQUIREMENTS FOR THE EXCAVATION OF MATERIALS. ALL TEMPORARY EXCAVATION FOR FOOTINGS, PITS, PIPES, OR OTHER PURPOSES SHALL BE SLOPED. SHORED. AND BRACED IN ACCORDANCE WITH OSHA REQUIREMENTS. PROPER PROTECTION FROM TRAFFIC SHALL BE PROVIDED IN ALL EXCAVATIONS ADIACENT OR NEAR ROADWAYS AND TRAFFIC AREAS THAT ARE IN USE.
- UNAUTHORIZED EARTHWORK: DO NOT REMOVE MATERIALS, TOPSOIL, OR SUITABLE FILL MATERIAL FROM THE SITE WITHOUT THE WRITTEN PERMISSION OF THE OWNER UNLESS SPECIFICALLY DESIGNATED TO BE REMOVED IN THE PLANS OR SPECIFICATIONS. DISPOSAL/BORROW SITES: THE OWNER WILL DESIGNATE ANY ON-SITE LOCATIONS AND PROVIDE AN OFF-SITE LOCATION FOR DISPOSAL OF ANY SOIL. IN THE ABSENCE OF THE OWNER DESIGNATING ADEQUATE AREAS
- ON-SITE OR OFF-SITE TO ACCOMMODATE SOIL VOLUMES, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE BORROW SOIL AND THE PROPER DISPOSAL OF ANY EXCESS SOIL. PROTECTION OF STRUCTURES AND SITE: THE CONTRACTOR SHALL PROTECT ALL EXISTING BUILDINGS LITILITIES FENCES STRUCTURES AND OTHER IMPROVEMENTS TO REMAIN AND SHALL RETURN THE SITE WORK AREAS, AND PROPERTY TO THE CONDITION IT WAS IN OR BETTER UPON COMPLETION OF THE WORK. ANY EXISTING STRUCTURES, UTILITIES, OR OTHER IMPROVEMENTS THAT ARE DAMAGED SHALL BE REPAIRED OR REPLACED TO THEIR ORIGINAL CONDITION OR BETTER BEFORE WORK CONTINUES AT NO COST TO THE OWNER.
- THE SUBGRADE OF ALL FOUNDATIONS, BUILDING AREAS, PAVEMENT AREAS, OR OTHER IMPROVEMENTS SHALL BE VERIFIED TO BE FREE OF ANY DELETERIOUS MATERIAL, LOOSE SOIL, OR ANYTHING THAT MAY BE DETRIMENTAL TO THE FOUNDATION. THE SUBGRADE SHALL BE VERIFIED TO BE ADEQUATE FOR THE PURPOSE FOR WHICH IT IS TO BE UTILIZED AND TO COMPLY WITH THE REQUIREMENTS OF THE GEOTECHNICAL

DRAINAGE: MAINTAIN POSITIVE DRAINAGE AWAY FROM ALL STRUCTURES AT ALL LOCATIONS AT ALL TIMES.

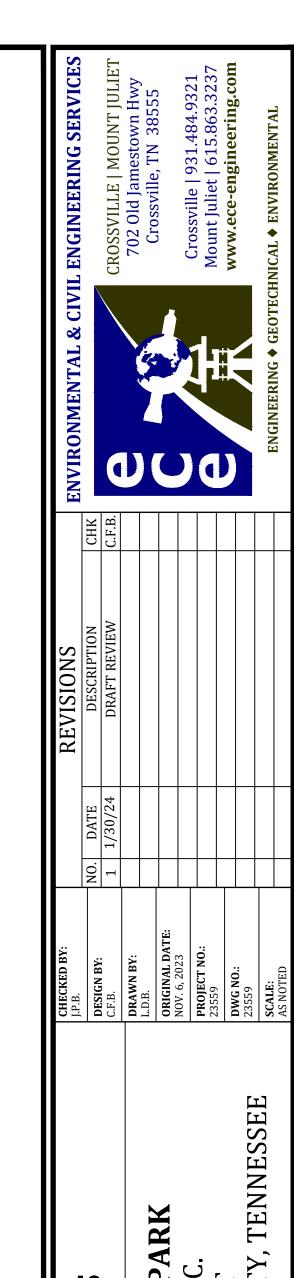
- 10. ALL SURFACE PAVEMENTS, VEGETATION, TOPSOIL, AND OTHER ORGANIC MATERIAL OR MISCELLANEOUS FILL AND DEBRIS SHOULD BE REMOVED FROM THE CONSTRUCTION AREAS BEFORE THE BUILDING OR PLACING OF FILLS. AFTER THE COMPLETION OF THE STRIPPING OPERATIONS AND PREPARATION OF ANY PROPOSED FILL AREA AND THE REMOVAL OF ANY CUT AREAS. THE EXPOSED SUBGRADE AREAS SHOULD BE PROOF ROLLED. PROOF ROLLING IS BEST ACHIEVED DURING REASONABLY DRY WEATHER USING A LOADED TANDEM AXLE. RUBBER TIRE DUMP TRUCK, OR SIMILAR APPROVED VEHICLE. TRAVERSING THE SITE IN TWO PERPENDICULAR DIRECTIONS. THE UNSUITABLE ZONES IDENTIFIED THROUGH THIS PROOF ROLL TEST SHOULD THEN BE REPLACED WITH APPROVED FILL MATERIALS.
- ONCE THE SUBGRADE HAS BEEN PROPERLY PREPARED, SOIL OR SHOT ROCK FILL MAY BE PLACED IN ORDER TO ATTAIN THE DESIRED FINAL GRADES. IN GENERAL, ANY NON-ORGANIC COHESIVE SOIL WITH A LIQUID LIMIT LESS THAN 45% AND A PLASTICITY INDEX LESS THAN 20, AND A MAXIMUM PARTICLE SIZE OF 4 INCHES IS SATISFACTORY FOR SOIL FILLS, AS WELL AS ANY GRANULAR SOIL.
- THE SOIL FILL SHOULD BE PLACED IN LIFTS OF UNIFORM THICKNESS. THE LIFT THICKNESS SHOULD NOT EXCEED THAT WHICH CAN BE PROPERLY COMPACTED THROUGHOUT ITS ENTIRE DEPTH WITH THE EQUIPMENT AVAILABLE, USUALLY NO MORE THAN 6 INCHES. STRUCTURAL FILLS SUPPORTING FOOTINGS, FLOOR SLABS, AND PAVEMENTS SHALL BE COMPACTED TO 98 PERCENT OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D-698). THE MOISTURE CONTENT OF THE FILL SOILS SHOULD BE WITHIN PLUS OR MINUS 3 PERCENT OF THE OPTIMUM MOISTURE CONTENT. DENSITY TESTS SHALL BE PERFORMED WITH A MINIMUM OF ONE TEST PER 6-INCH LIFT PER 5,000 TO 10,000 SQUARE FEET WITH A MINIMUM OF TWO TESTS REGARDLESS OF THE SQUARE FOOTAGE. SHOT ROCK SHOULD BE PLACED IN LIFTS OF UNIFORM THICKNESS. THE MAXIMUM PARTICLE SIZE OF SHOT ROCK MATERIALS SHOULD NOT EXCEED ONE FOOT FOR THIS PROJECT. THE SHOT ROCK SHOULD BE PLACED IN LIFTS NOT TO EXCEED THREE FEET IN THICKNESS. EACH SHOT ROCK LIFT SHOULD BE STABILIZED IN PLACE BY WALKING OVER THE FILL WITH A D-8 DOZER OR 973 TRACK LOADER A MINIMUM OF 3 TO 5 PASSES WITH THE TRACKS OVERLAPPING 50% DURING EACH PASS. SHOT ROCK FILL SHOULD BE "CHOKED OFF" BY REDUCING THE MAXIMUM PARTICLE SIZE AS THE LIFT APPROACHES THE FINAL SURGRADE FLEVATIONS. IT IS RECOMMENDED THAT THE MAXIMUM PARTICLE SIZE AS THE LIFT APPROACHES IN THE LAST THREE FEET OF FILL. THE FILL PLACEMENT SHOULD BE OBSERVED AND DOCUMENTED BY A REPRESENTATIVE OF THE GEOTECHNICAL ENGINEER. FILL PADS SHOULD BE CONSTRUCTED SO THAT THE COMPACTED SURFACE EXTENDS HORIZONTALLY BEYOND THE OUTSIDE FOOTING EDGES AT LEAST 10 FEET AND BEYOND PAVEMENTS AND WALKS AT LEAST 5 FEET. IN THE EVENT, THIS SPECIFICATION CONFLICTS WITH ANOTHER REQUIREMENT IN THE PROJECT PLANS OR GEOTECHNICAL REPORT, THE MORE STRINGENT WILL GOVERN.
- FOR PROPER AND TIMELY CONSTRUCTION OF THE FILLS. SOILS SHOULD BE PLACED AT OR NEAR THE OPTIMUM MOISTURE CONTENT AS DETERMINED BY THE SPECIFIED PROCTOR TEST. THE MOISTURE CONTENT OF THE FILL SOILS SHOULD BE WITHIN PLUS OR MINUS 3 PERCENT OF THE OPTIMUM MOISTURE CONTENT. SUITABLE EQUIPMENT FOR EITHER AERATING OR ADDING WATER TO THE FILL MATERIALS SHOULD BE AVAILABLE AS THE SOIL MOISTURE AND WEATHER CONDITIONS DICTATE
- CONTINUOUS REVIEW OF ANY CONSTRUCTION OF THE SOILS RELATED PHASES OF THIS PROJECT IS RECOMMENDED TO BE PERFORMED. OTHERWISE, THE ENGINEER ASSUMES NO RESPONSIBILITY FOR CONSTRUCTION COMPLIANCE WITH THE DESIGN CONCEPTS, SPECIFICATIONS, OR RECOMMENDATIONS. AS A PART OF THIS REVIEW, FIELD DENSITY TESTS SHOULD BE PERFORMED AS FREQUENTLY AS NECESSARY TO ASSIST IN THE EVALUATION OF THE FILL WITH RESPECT TO THE ABOVE RECOMMENDATIONS.

### UTILITY CONSTRUCTION | MISCELLANEOUS NOTES

- UTILITY NOTIFICATION: THE CONTRACTOR SHALL NOTIFY THE UTILITY SYSTEM IN WRITING PRIOR TO COMMENCING OPERATIONS THAT AFFECT ANY PUBLIC UTILITIES. A COPY OF SUCH NOTIFICATION SHALL BE SENT MINIMUM SEPARATIONS: A MINIMUM SEPARATION SHALL BE MAINTAINED BETWEEN ALL WATER LINES AND ANY SEWER. STORM, SEPTIC, OR OTHER WASTE LINES, FOR PARALLEL INSTALLATIONS, THE SEPARATION SHALL BE A MINIMUM OF 10 FEET HORIZONTAL MEASURED EDGE-TO-EDGE. IN UNUSUAL CONDITIONS WITH THE PRIOR WRITTEN APPROVAL OF THE ENGINEER AND DEPARTMENT, SEPARATIONS LESS THAN 10 FEET MAY BE PROVIDED IF THE BOTTOM OF THE WATER MAIN IS AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER AND THE SEWER IS CONSTRUCTED OF MATERIALS AND WITH JOINTS THAT ARE EQUIVALENT TO WATER MAIN STANDARDS OF CONSTRUCTION AND SHALL BE TESTED TO ASSURE WATER-TIGHTNESS PRIOR TO BACKFILL. WHEN CROSSING UNDER NORMAL CONDITIONS, THE WATER MAIN SHALL BE LAID TO PROVIDE A SEPARATION
- OF AT LEAST 18 INCHES BETWEEN THE BOTTOM OF THE WATER MAIN AND THE TOP OF THE SEWER. IF SUCH A CROSSING IS NOT POSSIBLE, THE ENGINEER SHALL BE NOTIFIED AND SHALL DIRECT AN ALTERNATIVE METHOD TO PERFORM THE CROSSING. MATERIAL STANDARDS OF GOVERNING UTILITY: ALL MATERIALS USED IN THE INSTALLATION OF THE UTILITIES SHALL MEET THE REQUIREMENTS OF THE LOCAL GOVERNING UTILITY AUTHORITY, INCLUDING ANY
- REOUIREMENTS AS TO MANUFACTURER AND MODEL OR PART NUMBER. UNDERCUTTING AND BACKFILL: THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY TRENCH BOTTOM AREAS THAT ARE SUSPECTED TO BE INADEQUATE FOR PROPER FOUNDATION SUPPORT OF BURIED PIPING. THE CONTRACTOR SHALL NOT PROCEED WITH UTILITY CONSTRUCTION WITHIN THE AREA UNTIL THE ENGINEER HAS REVIEWED THE SITUATION. AFTER REVIEW. THE ENGINEER WILL PROVIDE THE CONTRACTOR WITH THE HORIZONTAL EXTENTS, VERTICAL EXTENTS, AND RECOMMENDED MATERIALS FOR ANY UNDERCUTTING AND BACKFILL WORK TO BE PERFORMED. THE OWNER WILL NOT MAKE PAYMENT FOR
- ANY UNDERCUTTING AND BACKFILL WORK UNLESS THESE REQUIREMENTS HAVE BEEN COMPLIED WITH FULLY. THE INSTALLED DEPTH OF ALL UTILITY LINES SHALL BE SUCH AS TO PROVIDE A MINIMUM COVER OF 30 INCHES ON EASEMENTS ACQUIRED BY THE UTILITY OWNER OR 36 INCHES FOR LOCATIONS ON THE TENNESSEE DEPARTMENT OF TRANSPORTATION RIGHT OF WAYS. ALL UTILITY ROADWAY CROSSINGS SHALL BE CONSTRUCTED TO PROVIDE A MINIMUM OF 36 INCHES OF COVER BELOW PROPOSED DITCH ELEVATIONS AND TOE OF SLOPE ELEVATIONS. WHICHEVER LOWEST ELEVATION
- CONTROLS. CASINGS FOR SUCH CROSSINGS SHALL EXTEND A MINIMUM OF FIVE (5) HORIZONTAL FEET BEYOND THE TOE OF THE SLOPE OR FIVE (5) HORIZONTAL FEET BEYOND THE DITCH INVERT. THE DEPTH OF BURIAL OF ALL MAINS CONNECTING TO SUCH CROSSINGS SHALL BE SUCH THAT THE CONNECTIONS OF CROSSINGS TO THE MAIN CAN BE MADE WITHOUT THE INSTALLATION OF ANY FITTINGS OTHER THAN THE APPROPRIATE TEE AND ANY MORE THAN TWO 22.5 DEGREE FITTINGS. TRANSITIONS IN-DEPTH ON THE MAIN UTILITY LINES SHALL BE DONE WITHOUT THE USE OF FITTINGS AND SHALL BE TRANSITIONED SUCH THAT THE MAXIMUM DEFLECTION OF THE IOINTS AND PIPE ARE NOT EXCEEDED.
- LOCATIONS OF SEPTIC TANKS, PUMP TANKS, AND LINES SHALL COMPLY WITH BUFFER STANDARDS OF THE STATE OF TENNESSEE, DEPARTMENT OF ENVIRONMENT AND CONSERVATION, DIVISION OF WATER RESOURCES CHAPTER 0400-48-01, REGULATIONS TO GOVERN SUBSURFACE SEWAGE DISPOSAL SYSTEMS AND OTHER CRITERIA PUBLISHED BY THE DEPARTMENT. THE CONTRACTOR SHALL COORDINATE THE LOCATION AND SIZES OF GEOTHERMAL ZONE FIELDS WITH THE MECHANICAL PLANS FOR THE PROJECT. LOCATIONS OF SANITARY SEWERS AND WATER MAINS AS SHOWN ON OTHER PROJECT PLANS SHALL ALSO BE COORDINATED BY THE CONTRACTOR.

SEWER SUBMITTALS: SUBMITTALS FOR SEWER SYSTEM SHALL INCLUDE A DRAWING DETAILING THE TYPE OF STRUCTURE TO BE INSTALLED AT EACH LOCATION. REFERENCE IN THIS SUBMITTAL SHALL MATCH THE REFERENCES IN THESE PLANS. THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH THE SURVEY NOTES AND CUT SHEETS FROM THE LAST LAYOUT OF THE SEWER SYSTEM PERFORMED BY A REGISTERED LAND SURVEYOR OR A PROFESSIONAL ENGINEER PRIOR TO BEGINNING ANY CONSTRUCTION OF THE STORM SEWER SYSTEM.

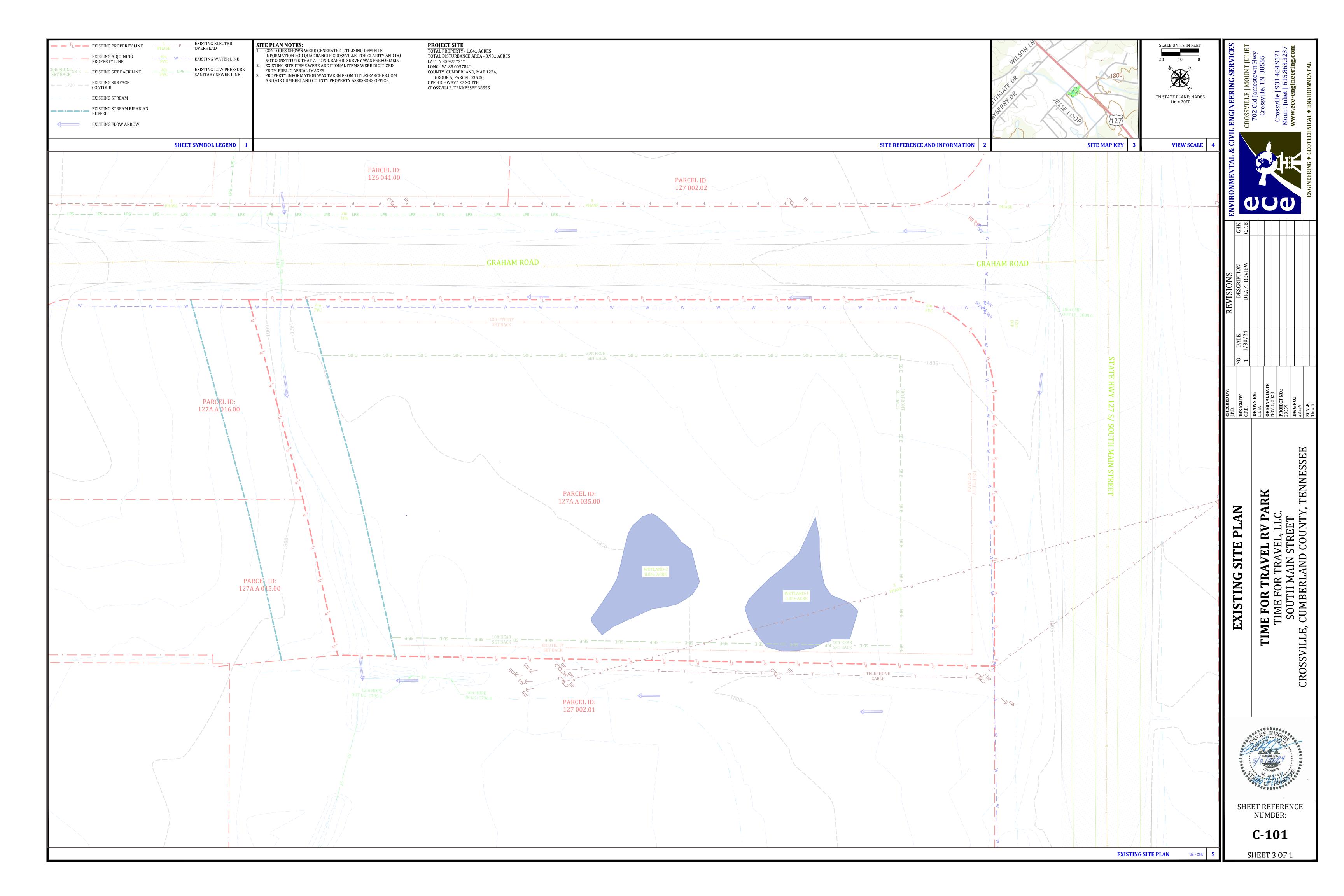
WATER SUBMITTALS: SUBMITTALS FOR WATER SYSTEM SHALL INCLUDE A DRAWING DETAILING THE TYPE OF STRUCTURE TO BE INSTALLED AT EACH LOCATION. REFERENCE IN THIS SUBMITTAL SHALL MATCH THE

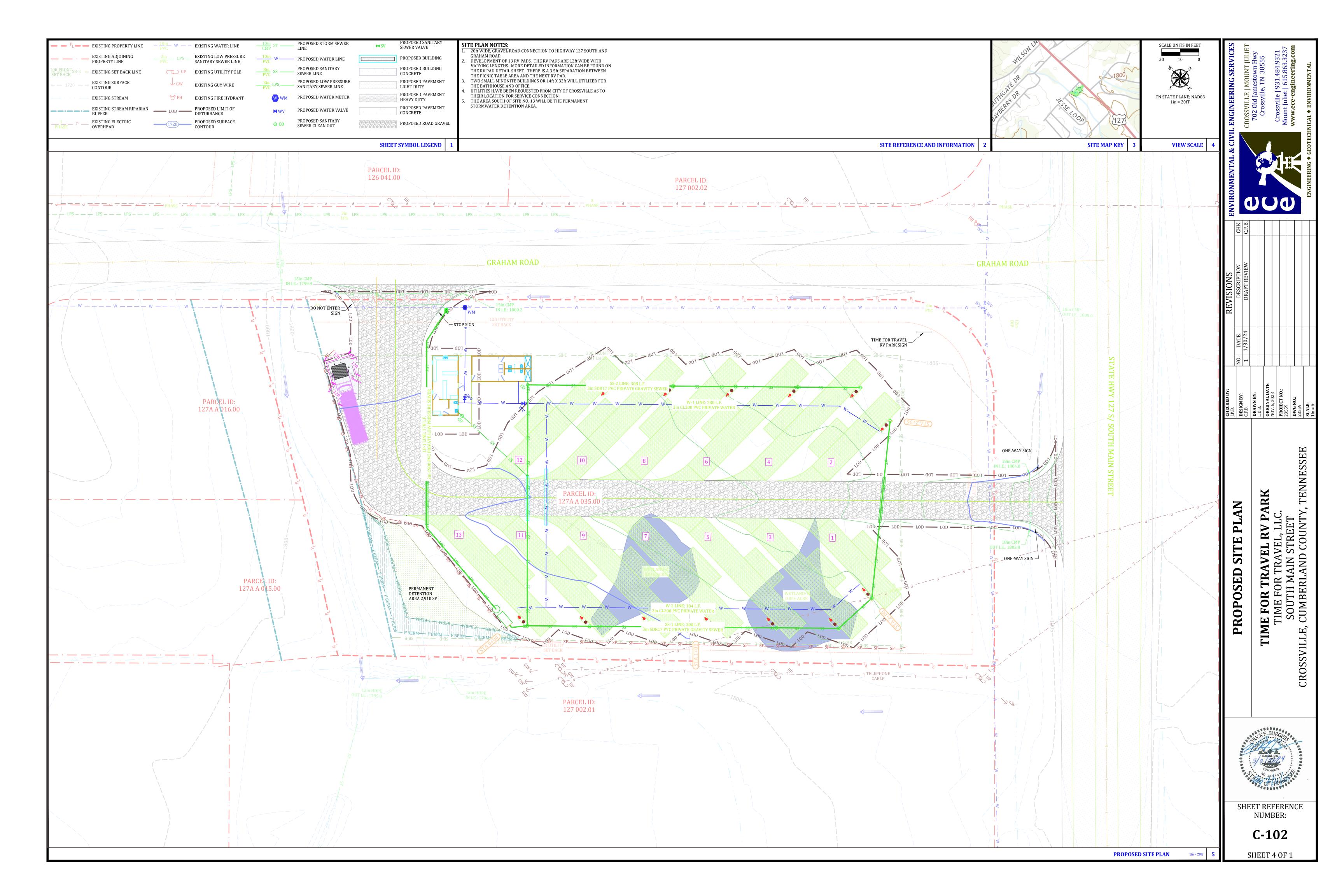


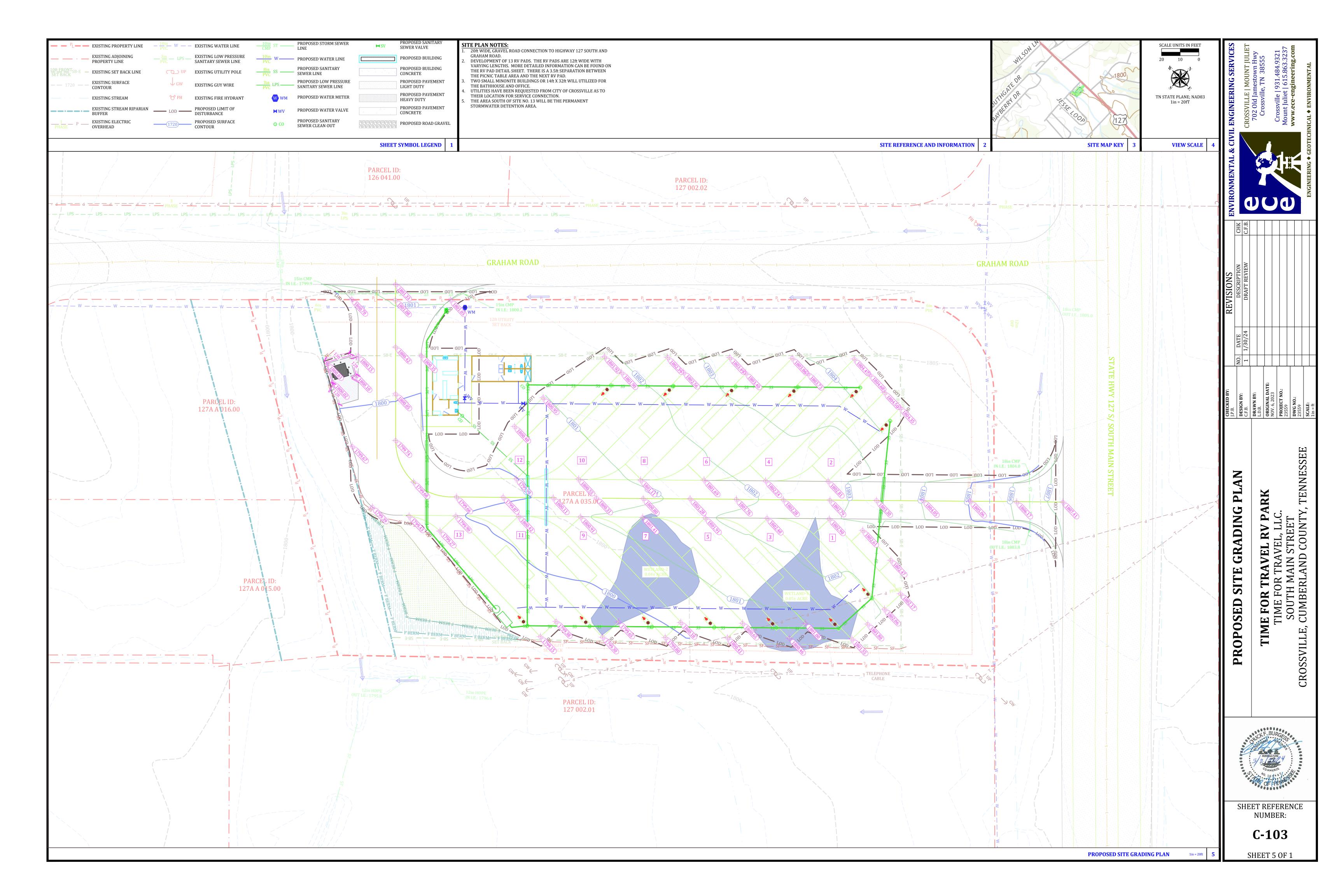
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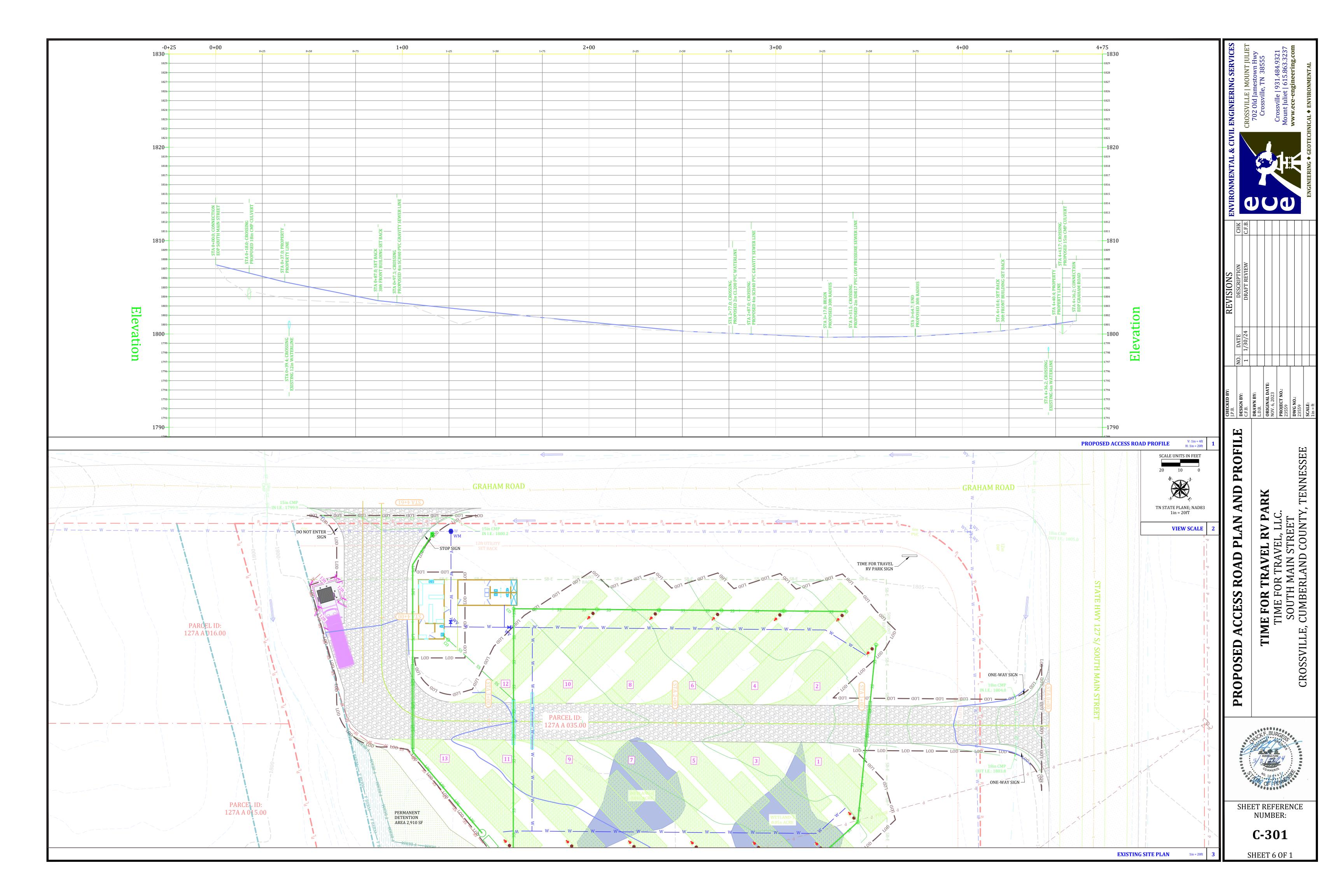
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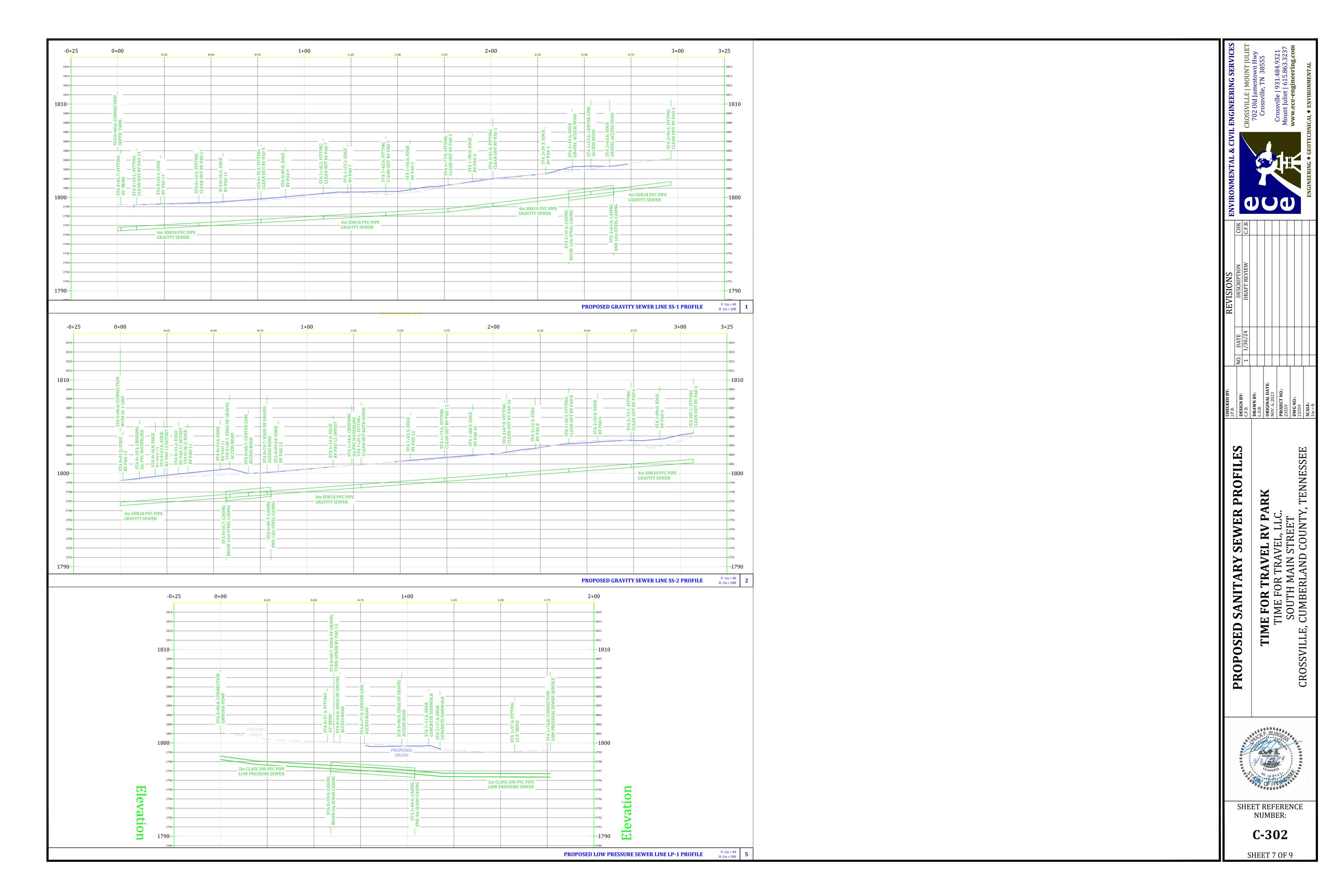
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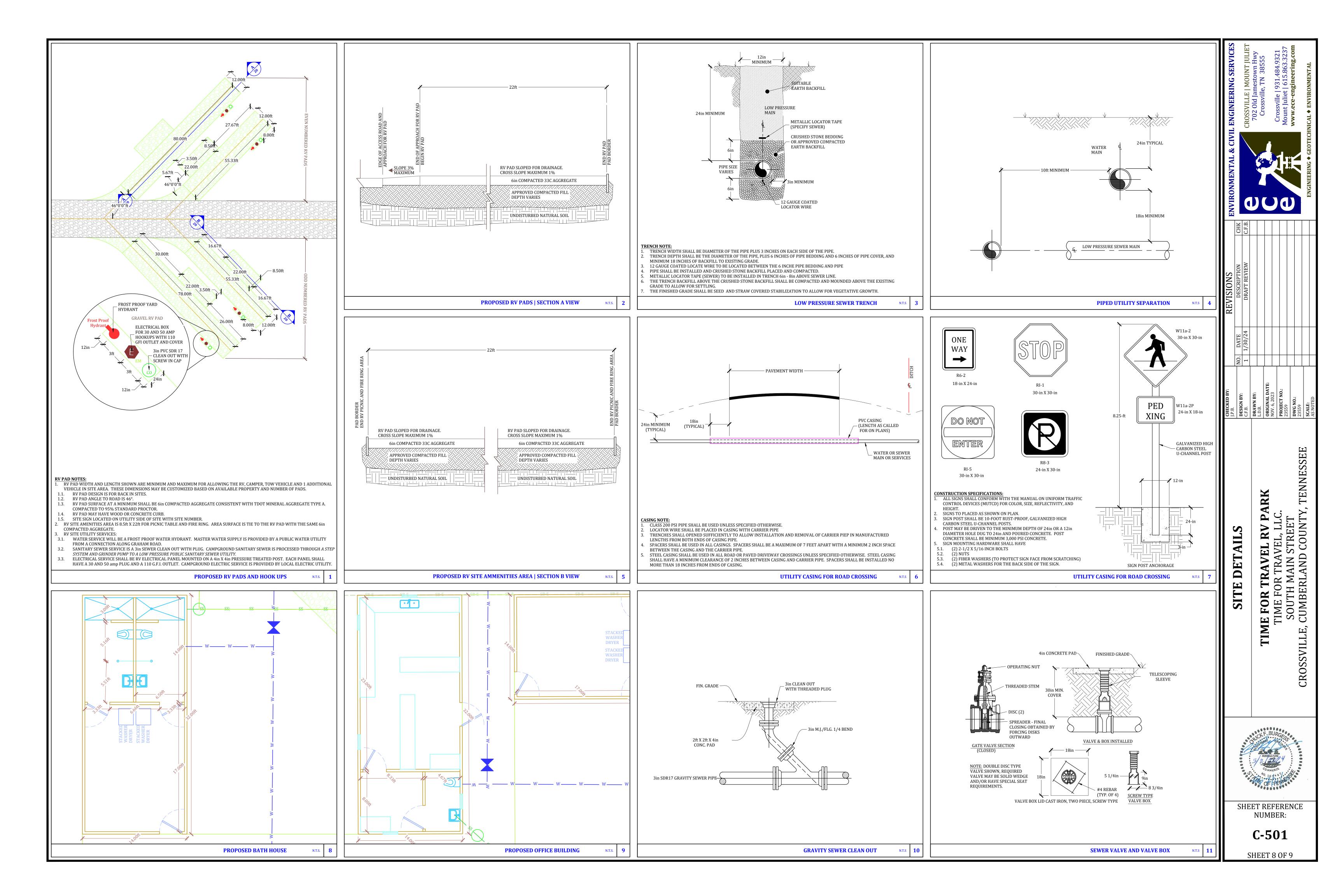


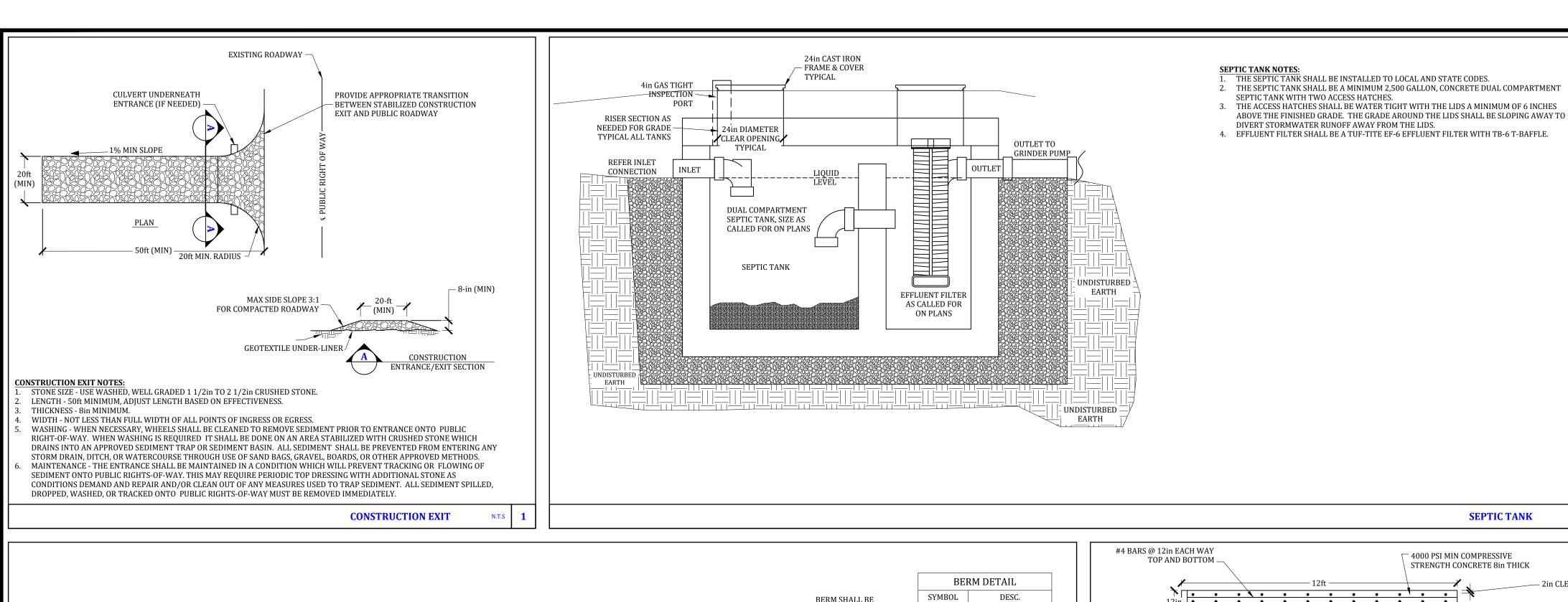






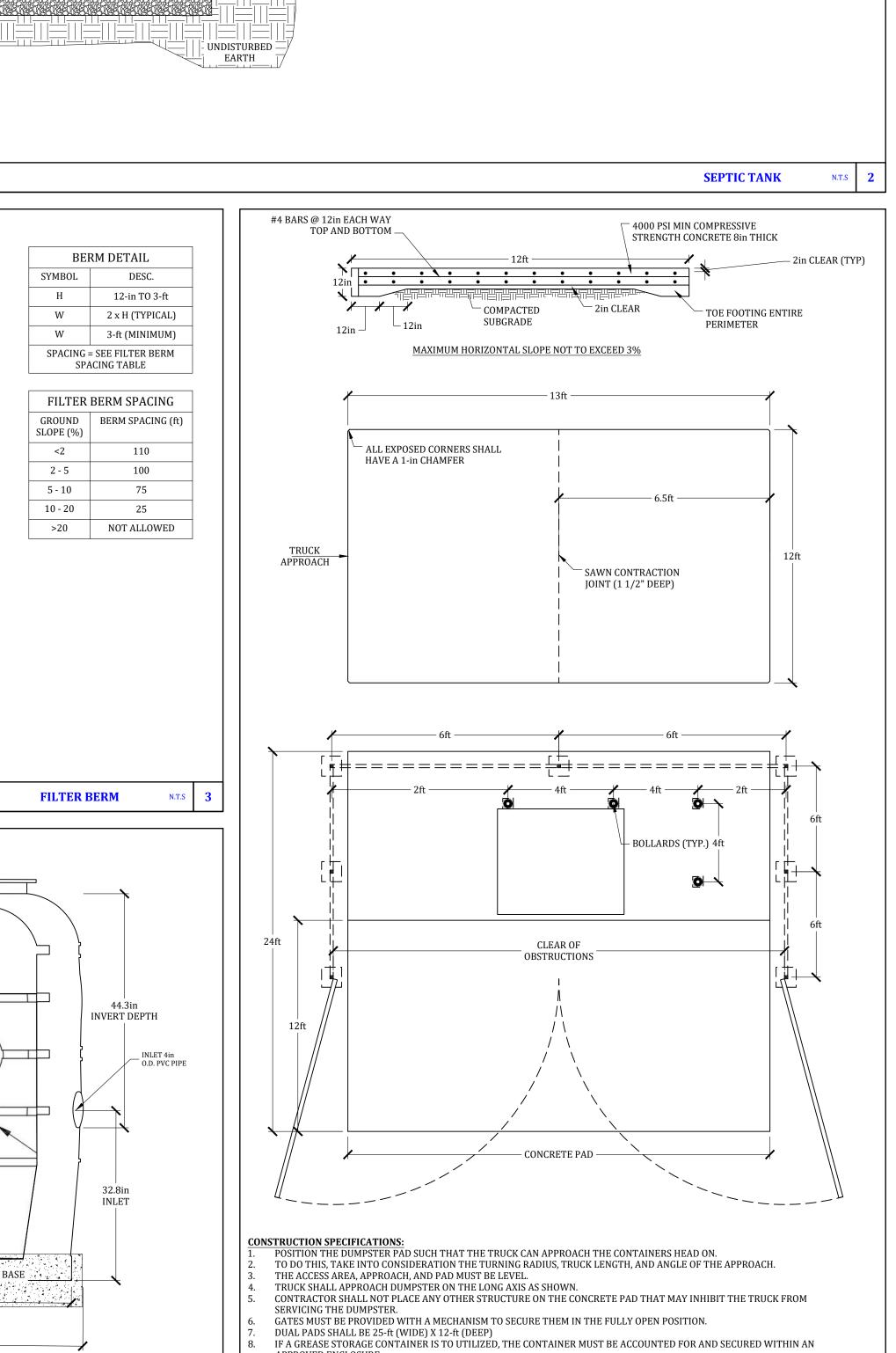






– TRAPEZOIDAL IN

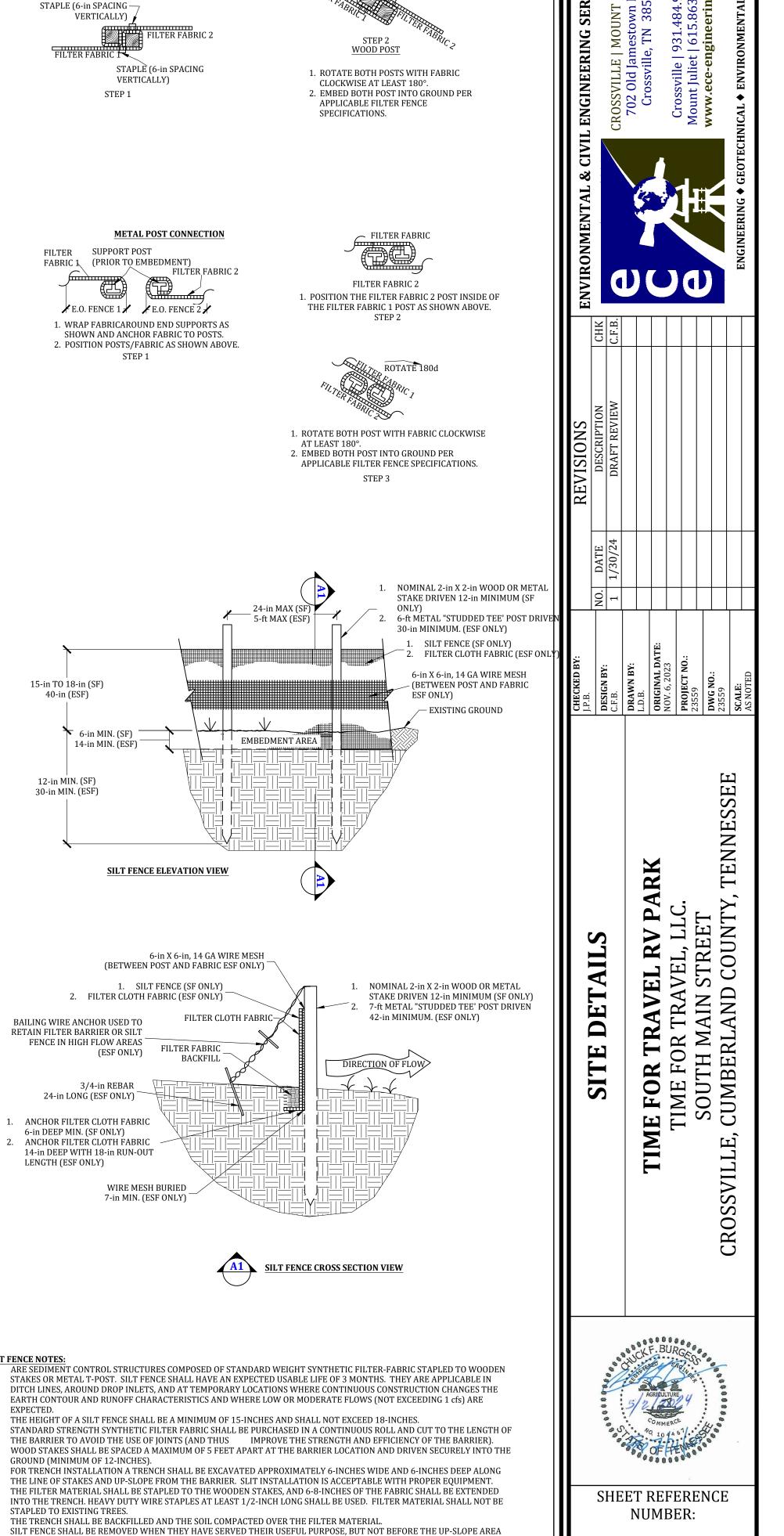
**BERM DETAIL** 



A 10-ft X 12-ft FENCE OR WALL MAY BE CONSTRUCTED TO ENCLOSE THE PAD; HOWEVER, IT MUST BE CONSTRUCTED OFF OF

THE PAD AND A 12-ft OPENING MAINTAINED TO THE APPROACH AND STOPS INSTALLED SO THE GATES CAN BE SECURED WHEN

**DUMPSTER PAD** 



SILT FENCE

SHEET 9 OF 9

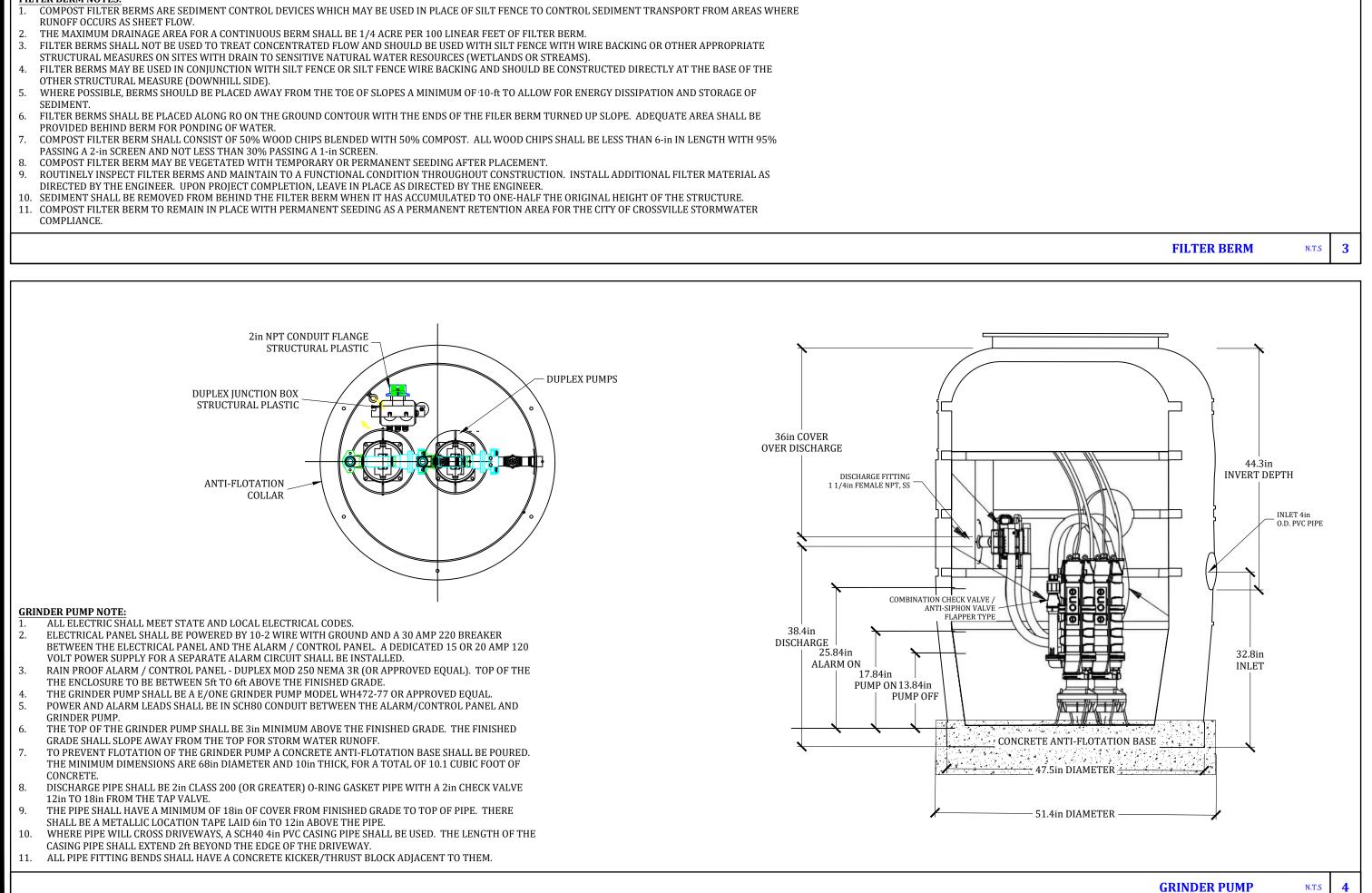
ROTATE 180°

WOOD POST CONNECTION

HAS BEEN PERMANENTLY STABILIZED.

ENHANCED SILT FENCES ARE COMPOSED OF A WIRE SUPPORT FENCE, METAL T-POST AND AN ATTACHED SYNTHETIC FILTER

FABRIC SLOW THE FLOW RATE SIGNIFICANTLY. THEIR EXPECTED USABLE LIFE IS 6 MONTHS.



SEE SPACING TABLE FOR RECOMMENDATIONS

MAXIMUM DISTANCE FROM TOE

OF SLOPE 10-ft DESIRABLE

ON CONTINUOUS GRADES

SIT FENCE WHEN USED —

(PERCENT)

GROUND SLOPE

SILT FENCE WITH WIRE BACKING

BERM SPACING

**SPACING BETWEEN FILTER BERMS** 

ALONG GRADE

NATURAL WATER

RESOURCE