INDEX OF DRAWINGS

UX-01 TELECOMMUNICATIONS RELOCATION ESTIMATED QUANTITIES AND DRAWING INDEX UX-02 TELECOMMUNICATIONS RELOCATION VICINITY MAP AND LEGEND

UX-03 TELECOMMUNICATIONS RELOCATION GENERAL NOTES
UX-04 TELECOMMUNICATIONS RELOCATION STA. 55+35 TO STA. 65+55
UX-05 TELECOMMUNICATIONS RELOCATION CONSTRUCTION DETAILS

TYPE	YEAR	PROJECT NO.	SHEET NO.	
PS&E	2024	18004-3227-94	U2-01	

CUMBERLAND CO

REV 08-08-2025 UPDATED ITEM NUMBERS

	ESTIN	MATED QUANTITIES				
ITEM NO.	TDOT DESCRIPTION	UTILITY UNIT DESCRIPTION	UNIT	QUANTITY	PERCENT UTILITY	PERCENT PROJECT
798-05.02	FIBER OPTIC CABLE ENCLOSURE	ENC	EACH	8	0%	100%
798-05.03	FIBER OPTIC CABLE SPLICE		EACH	8	0%	100%
798-05.07	3/8 IN HIGH STRENGTH STEEL STRAND	3/8" STRAND	L.F.	1260	0%	100%
798-06.04	FIBER OPTIC CABLE (12F)	12F	L.F.	1260	0%	100%
798-06.13	FIBER OPTIC CABLE (48F)	48F	L.F.	1260	0%	100%
798-06.11	FIBER OPTIC CABLE (96F)	96F	L.F.	2520	0%	100%
798-06.48	FIBER STORAGE LOOP	LOOP	EACH	8	0%	100%
798-09.01	REMOVE STEEL STRAND		L.F.	1236	0%	100%
798-09.03	REMOVE POLES, GUYS, ANCHORS		EACH	2	0%	100%
798-09.07	REMOVE FIBER OPTIC CABLE		L.F.	4997	0%	100%
798-09.08	REMOVE STRAND POLE FRAMING		EACH	6	0%	100%
798-11.31	POWER INSTALLED ANCHOR	E1-2	EACH	4	0%	100%
798-11.41	DOWNGUY - WRAP TYPE	F3	EACH	4	0%	100%
798-13.03	STRAND TANGENT ASSEMBLY	SC	EACH	2	0%	100%
798-13.04	STRAND ANGLE ASSEMBLY	CSC	EACH	2	0%	100%
798-13.07	STRAND DOUBLE DEADEND ASSEMBLY	DDE	EACH	3	0%	100%

FOOTNOTE 6:
INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT INCLUDING BUT NOT LIMITED TO SETUP, TRAFFIC CONTROL AND BONDING/GROUNDING.

UTILITY INFORMATION
Charter Communications, LLC
17851 S. Willow Ave., Suite 206
Cookeville, TN 38501

Cookeville, TN 38501 CONTACT: Morgan Wilcher PHONE: 931-739-9222

EMAIL: morgan.wilcher@charter.com



JOB NUMBER: 29088.30
DESIGNED: MAS
DRAWN: MAS
CHECKED: BBG

SCALE DATE
N.T.S 02.12.2025



TELECOMMUNICATIONS RELOCATION ESTIMATED QUANTITIES AND DRAWING INDEX

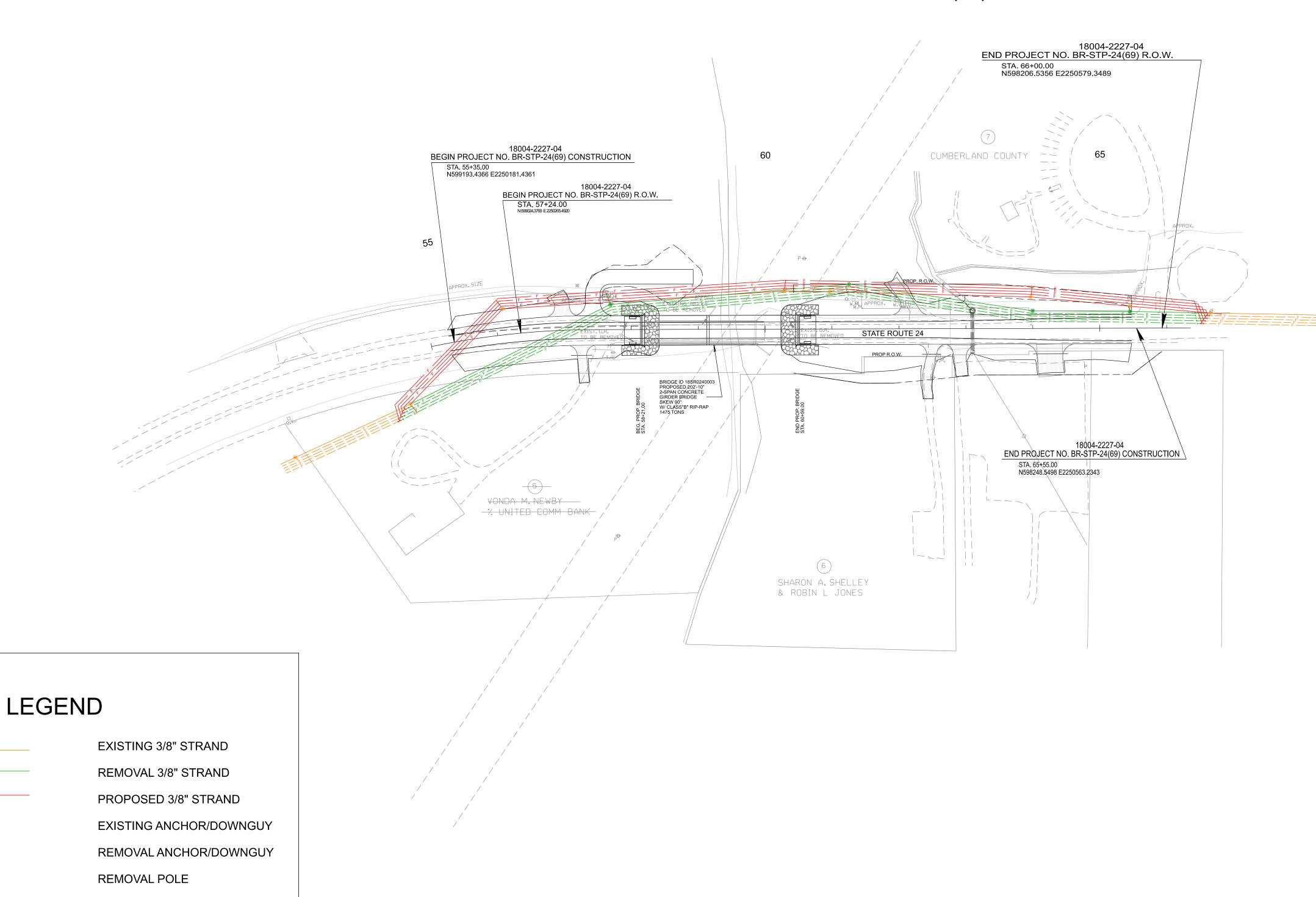
CUMBERLAND COUNTY

S.R. 24 (70 N)
BRIDGE OVER OBED RIVER.
L.M 15.37 IN CROSSVILLE (IA)

 TYPE
 YEAR
 PROJECT NO.
 SHEET NO.

 PS&E
 2025
 18004-3227-94
 U2-02

CUMBERLAND COUNTY PIN 124053.00



EXISTING POLE

EXISTING FIBER

REMOVAL FIBER

PROPOSED FIBER

PROPOSED SPLICE



JOB NUMBER: 29088.30
DESIGNED: MAS
DRAWN: MAS
CHECKED: BBG

N.T.S

DATE

02.12.2025



TELECOMMUNICATIONS RELOCATION VICINTY MAP AND LEGEND

GENERAL CONSTRUCTION NOTES

- 1. THE FOLLOWING INFORMATION APPLIES TO THE UTILITY CONTRACTOR RESPONSIBLE FOR THE RELOCATION OF THE COMMUNICATION FACILITIES ALONG THIS PROJECT.
- 2. ANY DEVIATION OF THE CONDITIONS LISTED MUST BE APPROVED BY THE UTILITY PRIOR TO THE DEVIATION TAKING PLACE ON THE PROJECT. FAILURE BY THE UTILITY CONTRACTOR OR SUBCONTRACTORS TO FOLLOW THESE CONDITIONS AS LISTED WILL RESULT IN REFUSAL OF ACCEPTANCE BY THE UTILITY OWNER TO ACCEPT THE PROJECT AT ITS COMPLETION UNTIL SUCH TIME AS ANY DEFICIENCIES ARE CORRECTED TO THE SATISFACTION OF THE UTILITY.
- ALL WORK SHALL BE DONE IN A SAFE, THOROUGH AND WORKMAN-LIKE MANNER IN ACCORDANCE WITH THE PLAN SHEETS, CONSTRUCTION DETAILS AND TECHNICAL SPECIFICATIONS AS WELL AS ANY AND ALL APPLICABLE SAFETY CODES, INCLUDING, BUT NOT LIMITED TO, THE NATIONAL ELECTRICAL SAFETY CODE (NESC), AND ANY OTHER STATE AND LOCAL CODES THAT ARE REQUIRED FOR THE TYPE OF UTILITY RELOCATION THAT IS BEING PERFORMED AS PART OF THIS CONTRACT.
- 4. THE UTILITY CONTRACTOR SHALL EXERCISE ALL STANDARD SAFETY PRACTICES WHEN WORKING AROUND ENERGIZED ELECTRICAL LINES (e.g. RUBBER GLOVES INSPECTIONS, GROUNDING OF LINES AND VEHICLES / EQUIPMENT, TOOL INSPECTIONS, ADEQUATE SUPERVISION, ETC.).
- 5. THE UTILITY CONTRACTOR SHALL BEAR THE RESPONSIBILITY FOR THE SAFETY OF ITS EMPLOYEES AND SHALL ENSURE THAT THEY ABIDE BY ALL STATE, FEDERAL AND LOCAL REGULATIONS REGARDING SAFE WORK PRACTICES. IF SUCH REGULATIONS ARE VIOLATED. THE UTILITY OWNER SHALL MAINTAIN THE RIGHT TO STOP WORK ON THEIR FACILITIES UNTIL SUCH CONDITIONS ARE CORRECTED.
- IN GENERAL. THE UTILITY CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MATERIALS. METHODS. AND/OR INTEGRAL MATERIALS OUTLINED IN THE UTILITY CONSTRUCTION DRAWINGS AND THE TECHNICAL SPECIFICATIONS THAT ARE NECESSARY TO PROVIDE A COMPLETE AND FUNCTIONAL INSTALLATION OF THE UTILITY FACILITIES BEING RELOCATED.
- 7. UTILITY CONSTRUCTION DRAWINGS ARE INCLUDED AS PART OF THE DRAWING PACKET AND MUST BE ADHERED TO DURING ALL PHASES OF CONSTRUCTION.
- 8. ALL MATERIALS TO BE USED BY THE UTILITY CONTRACTOR ON THE PROJECT MUST BE NEW MATERIALS AND MUST BE APPROVED BY THE UTILITY OWNER PRIOR TO PURCHASE OR USE. A PROPOSED LIST OF MATERIALS SHALL BE SUBMITTED TO THE UTILITY OWNER AS NOTED IN THE TECHNICAL SPECIFICATIONS FOR THE PROJECT. NO MATERIAL SUBSTITUTIONS ARE ALLOWED WITHOUT THE PRIOR CONSENT OF THE UTILITY OWNER. STORAGE LOCATION OF MATERIALS ON THE PROJECT SITE MUST BE A SECURE ENVIRONMENT. THE UTILITY CONTRACTOR IS RESPONSIBLE FOR ANY LOST, STOLEN OR DAMAGED MATERIALS ON THE PROJECT.
- THE UTILITY CONTRACTOR IS REQUIRED TO MAINTAIN COMMUNICATION WITH THE UTILITY OWNER'S PROJECT REPRESENTATIVE USING TELEPHONE COMMUNICATIONS.
- 10. THE UTILITY CONTRACTOR IS TO PERFORM ALL REQUIRED WORK IN SUCH A MANNER AS TO NOT CAUSE UNINTENTIONAL OUTAGES TO THE CUSTOMERS ALONG THE PROJECT. ALL PLANNED OUTAGES MUST BE HANDLED IN ACCORDANCE WITH SECTION 01 1113 "SUMMARY OF WORK" IN THE CONSTRUCTION TECHNICAL SPECIFICATIONS. LARGE SCALE OUTAGES ARE NOT ALLOWED.
- 11. IF FIELD CONDITIONS ARISE WHICH PREVENT THE CONSTRUCTION ON THE PROJECT FROM PROCEEDING AS DESIGNED, THE UTILITY CONTRACTOR WILL COORDINATE WITH THE UTILITY OWNER / ENGINEER TO RESOLVE THE ISSUES SO THAT CONSTRUCTION CAN CONTINUE.
- 12. THE UTILITY CONTRACTOR SHALL COMPLY WITH ALL TDOT REGULATIONS, PERMITS AND TRAFFIC CONTROL GUIDELINES AS REQUIRED.
- 13. THE LOCATIONS OF EXISTING UTILITIES SHOWN WITHIN THESE DRAWINGS ARE BASED ON INFORMATION PROVIDED BY TDOT, AND SHALL BE VERIFIED BY THE UTILITY CONTRACTOR PRIOR TO CONSTRUCTION. THE UTILITY CONTRACTOR SHALL NOTIFY EACH UTILITY OWNER OF HIS PLAN OF OPERATION IN THE AREA OF THE UTILITIES AND REQUEST THAT THE UTILITY OWNERS PROPERLY LOCATE AND MARK THEIR PERSPECTIVE UTILITY ON THE GROUND.
- 14. THE UTILITY CONTRACTOR SHALL REQUEST UTILITY LOCATIONS A MINIMUM OF THREE (3) BUSINESS DAYS PRIOR TO BEGINNING ANY CONSTRUCTION IN THE AREA OF THE UTILITIES IN QUESTION.
- 15. THE TDOT PRIME CONTRACTOR WILL BE RESPONSIBLE FOR ANY EXCAVATION WORK REQUIRED TO LOCATE EXISTING UNDERGROUND UTILITIES. THE PRIME CONTRACTOR IS ALSO REQUIRED TO NOTIFY ANY EXISTING UTILITY OWNER PRIOR TO DIGGING. IN THE EVENT THAT THERE IS ANY DAMAGE TO OR INTERRUPTION OF EXISTING FACILITIES, THE PRIME CONTRACTOR WILL BE RESPONSIBLE FOR ANY COST INCURRED FROM THE EVENT.
- SOME EXISTING UTILITIES CAN BE LOCATED BY CALLING TENNESSEE ONE-CALL SYSTEMS, INC. AT "811".
- 17. THE UTILITY CONTRACTOR SHALL PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFEGUARD EXISTING UTILITIES FROM DAMAGE DURING THE CONSTRUCTION OF THE PROJECT. IN THE EVENT THAT SPECIAL EQUIPMENT IS REQUIRED TO WORK OVER AND AROUND EXISTING UTILITIES, THE UTILITY CONTRACTOR SHALL BE REQUIRED TO FURNISH THE EQUIPMENT NECESSARY TO COMPLETE THE WORK.
- 18. THE UTILITY CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY DAMAGE CAUSED BY ITS EMPLOYEES IN AREAS OUTSIDE OF TDOT ROW ALONG THE LENGTH OF THE PROJECT. THE UTILITY CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR RESOLVING ALL COMPLAINTS THAT MAY ARISE FROM ITS ACTIVITIES, AND SHALL PROMPTLY REPORT SUCH COMPLAINTS TO THE UTILITY OWNER AS TO WHETHER OR NOT IT HAS BEEN RESOLVED.
- 19. GROUND AND AERIAL INSPECTION OF INSTALLED FACILITIES ONCE COMPLETED SHALL BE THE RESPONSIBILITY OF THE UTILITY CONTRACTOR. ANY CORRECTIONS THAT ARE REQUIRED SHALL BE DONE DURING THE CONSTRUCTION OF THE PROJECT AND VERIFIED BY THE UTILITY OWNER / ENGINEER. THE UTILITY OWNER WILL HAVE INSPECTORS ON-SITE TO VERIFY SAFETY AND QUALITY OF WORK IS CONSISTENT WITH UTILITY OWNER'S STANDARDS.

- 20. WHILE SOME WORK MAY ONLY BE REQUIRED "AROUND" OTHER UTILITY FACILITIES, SOME WORK MAY NEED TO BE DONE CONCURRENTLY WITH THE OPERATIONS OF OTHER UTILITY CONTRACTORS. IT IS THE RESPONSIBILITY OF THE TDOT PRIME CONTRACTOR TO ENSURE THAT ALL UTILITY COORDINATION BE ADDRESSED DURING THE CONSTRUCTION OF THE PROJECT.
- 21. THE UTILITY CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL FACILITIES INDICATED WITHIN THESE DRAWINGS AT "FINAL GRADE" AS SHOWN. ANY TEMPORARY INSTALLATIONS THAT ARE NOT SPECIFICALLY NOTED WITHIN THESE DRAWINGS AND THAT ARE NOT ADDRESSED AND COORDINATED PRIOR TO CONSTRUCTION OF THE PROJECT WILL BE THE RESPONSIBILITY OF THE TDOT PRIME CONTRACTOR.
- 22. CONSTRUCTION OF RELOCATED FACILITIES IS NOT CONSIDERED TO BE COMPLETE UNTIL THE UTILITY CONTRACTOR HAS ENERGIZED THE FACILITIES IN ACCORDANCE WITH UTILITY OWNER SPECIFICATIONS.
- 23. PERSONNEL CHANGES ARE TO BE KEPT TO A MINIMUM DURING THE CONSTRUCTION OF THE PROJECT AS TO REDUCE UNFAMILIAR PERSONNEL TO BE WORKING ON THE FACILITIES OF THE UTILITY OWNER.
- 24. THE TDOT PRIME CONTRACTOR IS RESPONSIBLE FOR THE LAYOUT OF ALL UTILITY FACILITIES THAT ARE TO BE RELOCATED WITHIN THE PROJECT.
- 25. WHERE EROSION CONTROL MEASURES ARE NEEDED FOR THE UTILITY WORK OCCURRING OUTSIDE THE STATE RIGHT-OF-WAY. THE UTILITY CONTRACTOR SHALL SUBMIT A PROPOSED EROSION AND SEDIMENT CONTROL PLAN TO THE TDOT PROJECT SUPERVISOR FOR APPROVAL PRIOR TO BEGINNING WORK.
- 26. THE DISTANCES THAT ARE SHOWN ON THE DRAWINGS ARE HORIZONTAL DISTANCES ONLY, AND DO NOT ALLOW FOR ANY CHANGES IN ELEVATION THAT EXIST ALONG THE PROJECT.
- 27. ALL ACTIVE AND PASSIVE EQUIPMENT SHALL BE PROVIDED BY THE UTILITY OWNER. THE LABOR COST, AND MINOR MATERIALS REQUIRED TO INSTALLL THESE UNITS SHALL BE INCLUDED IN THE BID FROM THE UTILITY CONTRACTOR.
- 28. LOCKNUTS SHALL BACK UP ALL NUTS ON THREADED BOLTS SUCH AS MACHINE BOLTS. ETC. EXISTENCE OF LOCKNUTS WILL BE CLOSELY EXAMINED BY THE UTILITY OWNER DURING CONSTRUCTION. BOLTS SHALL NOT EXTEND MORE THAN TWO (2) INCHES FROM NUTS.
- 29. ANCHORS THAT ARE TO BE RETIRED SHALL HAVE THE ROD UNSCREWED AND REMOVED, OR BE CUT OFF AT LEAST EIGHTEEN (18) INCHES BELOW FINAL GRADE.
- 30. THE UTILITY CONTRACTOR SHALL PROVIDE THE UTILITY OWNER WITH ONE (1) SET OF CLEAN, CLEARLY MARKED "AS-BUILT" DRAWINGS AT THE COMPLETION OF THE PROJECT. THESE DRAWINGS SHALL REFLECT ANY AND ALL CHANGES THAT WERE MADE TO THE FACILITIES DURING CONSTRUCTION.
- 31. THE UTILITY CONTRACTOR IS RESPONSIBLE FOR REVIEWING ALL CONSTRUCTION DRAWINGS AND TECHNICAL SPECIFICATIONS FOR THE RELOCATION OF FACILITIES PRIOR TO BIDDING THE PROJECT. ANY QUESTIONS CONCERNING INFORMATION SHOWN IN THE CONTRACT DOCUMENTS SHALL BE ADDRESSED TO THE UTILITY OWNER / ENGINEER PRIOR TO BIDDING ON THE PROJECT.
- 32. UTILITY CONTRACTOR WILL BE RESPONSIBLE FOR INSPECTING EACH REEL OF CABLE FOR THE PROJECT. ANY DAMAGE TO THE CABLE SHALL BE REMOVED AND SPLICED AS REQUIRED. ALL CABLES SHALL BE PROTECTED FROM EQUIPMENT OR VEHICLE TRAFFIC WHILE BEING INSTALLED.
- 33. ANY CUSTOMER OUTAGES FOR CUTOVER TO NEW CABLES MUST BE COORDINATED WITH AND SCHEDULED BY UTILITY OWNER. SCHEDULED CUSTOMER OUTAGES REQUIRE A MINIMUM OF 14 DAYS FOR NOTIFICATION.

TYPE	YEAR	PROJECT NO.	SHEET NO.	
PS&E	2024	18004-3227-94	U2-03	

CUMBERLAND COUNTY



JOB NUMBER: 29088.30 MAS DESIGNED: DRAWN: MAS CHECKED: BBG

N.T.S

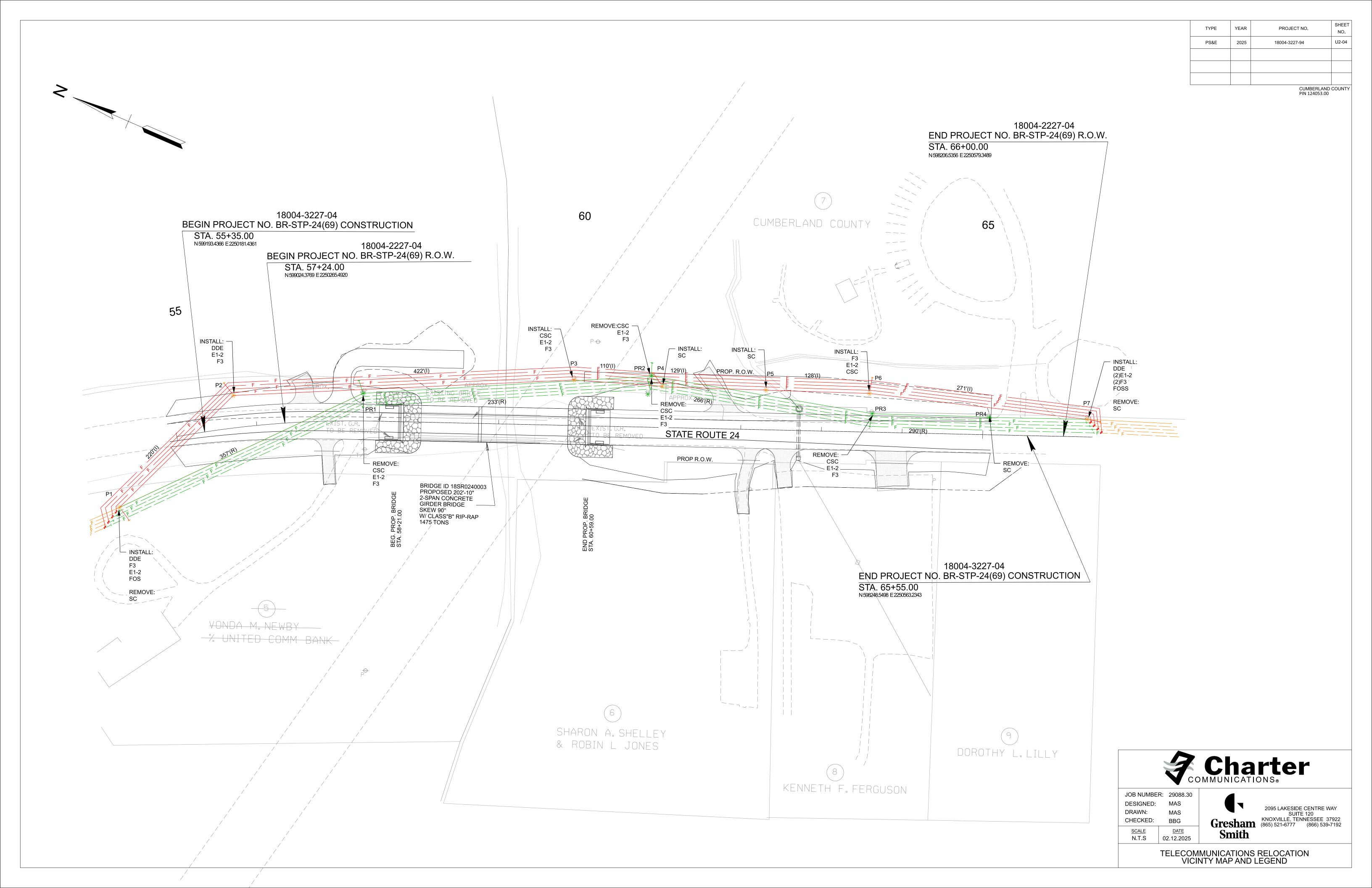
DATE

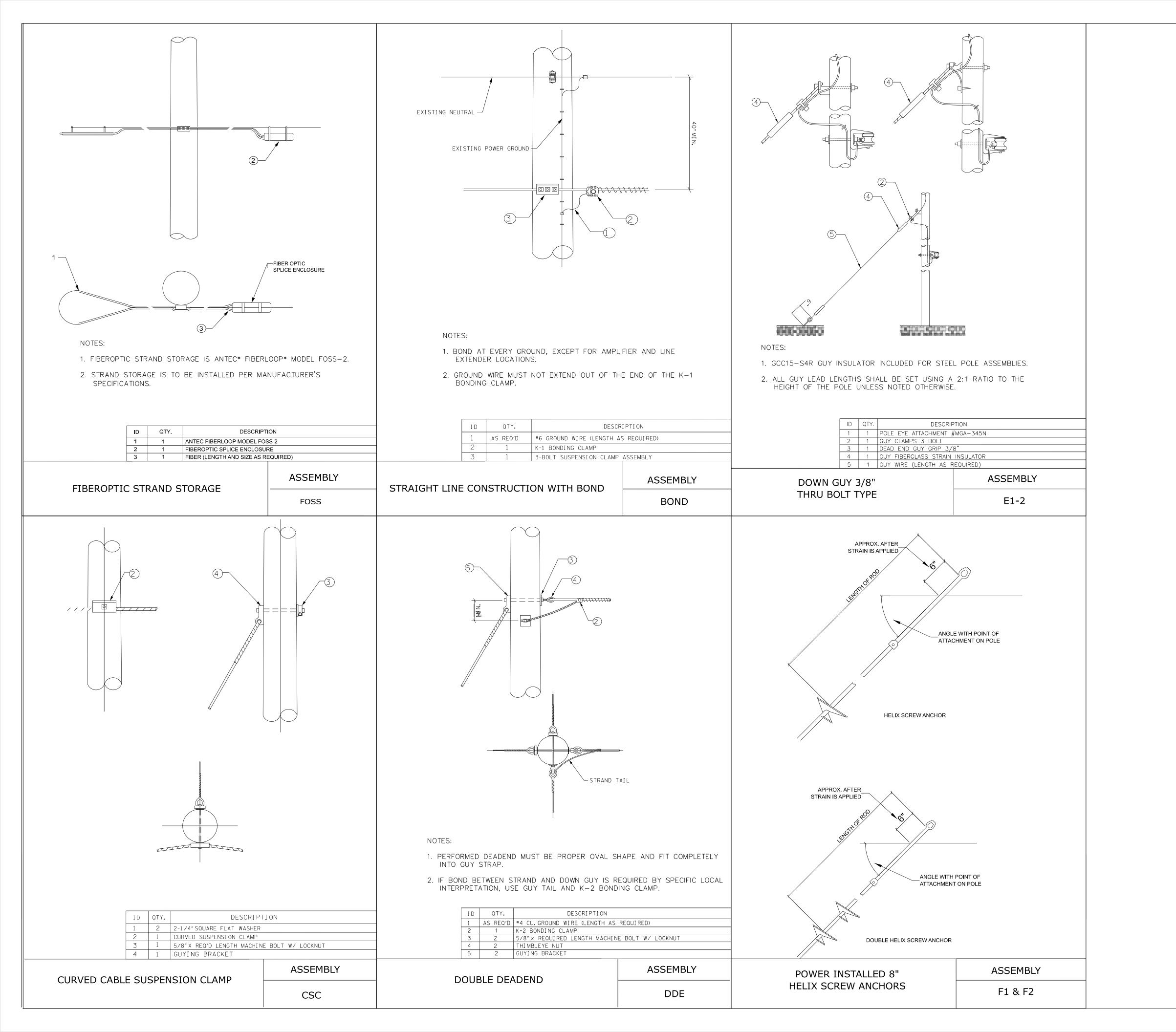
07.12.2024



2095 LAKESIDE CENTRE WAY KNOXVILLE, TENNESSEE 37922 **Gresham** (865) 521-6777 (866) 539-7192

TELECOMMUNICATIONS RELOCATION **GENERAL NOTES**





TYPE	YEAR	PROJECT NO.	SHEET NO.	
PS&E	2025	18004-3227-94	U2-05	

CUMBERLAND COUNTY PIN 124053.00



JOB NUMBER: 29088.30
DESIGNED: MAS
DRAWN: MAS
CHECKED: BBG

DATE

02.12.2025

<u>SCALE</u>

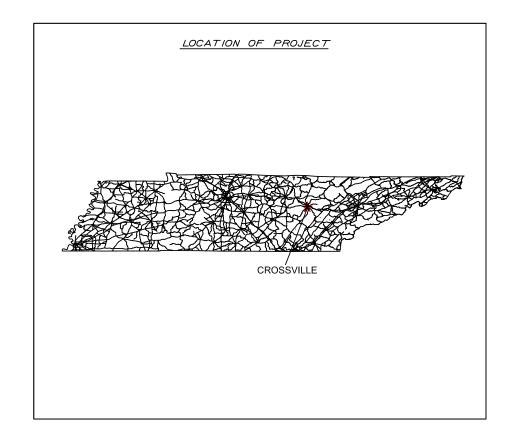
N.T.S

2095 LAKESIDE CENTRE WAY SUITE 120
KNOXVILLE, TENNESSEE 37922
(865) 521-6777 (866) 539-7192
Smith

TELECOMMUNICATIONS RELOCATION CONSTRUCTION DETAILS

OUTSIDE PLANT CONSTRUCTION FIBER OPTIC CABLE ROUTE CROSSVILLE, TN CUMBERLAND COUNTY

DOCATE CAS MANY STORY OF THE STORY OF THE STORY OF THE STATE OF THE S



MATERIAL RAKE

- (1) 4" SDR11 HDPE QUANTITY OF 1,100'
- (2) 1.25" SDR11 INNERDUCTS WITH A TOTAL QUANTITY OF 2,200'
- (2) 36"X60"X30" QUAZITE HAND HOLES

1 COVER SE

- 1. COVER SHEET
- 1. LOCATION MAP
- 2. CONSTRUCTION DETAILS

SPRINT OSP PROJECT # A2961029 CROSSVILLE TENNESSEE PROPOSED BUILD





PROPRIETARY
INFROMATION
NOT FOR DISCLOSURE
OR REPRODUCTION

SPRINT DOES NOT WARRANT OR GUARANTEE IN ANY MANNER THE ACCURACY OF THIS MAP. ANY INTENDED EXCAVATION REQUIRES NOTIFICATION OF THE LOCAL "ONE CALL CENTER" OR CALL SPRINT'S CALL-BEFORE-YOU-DIG CENTER AT 1-800-521-0579, AT LEAST 48 HOURS PRIOR TO COMMENCING

	PRINTED SHEET SIZ	E / DRAWING SCALE
V A	11" x 17" (B)	1" = 100'
	22" x 34" (D)	1" = 50'
Sprint /	RELEASE DATE:	ISSUE NUMBER:

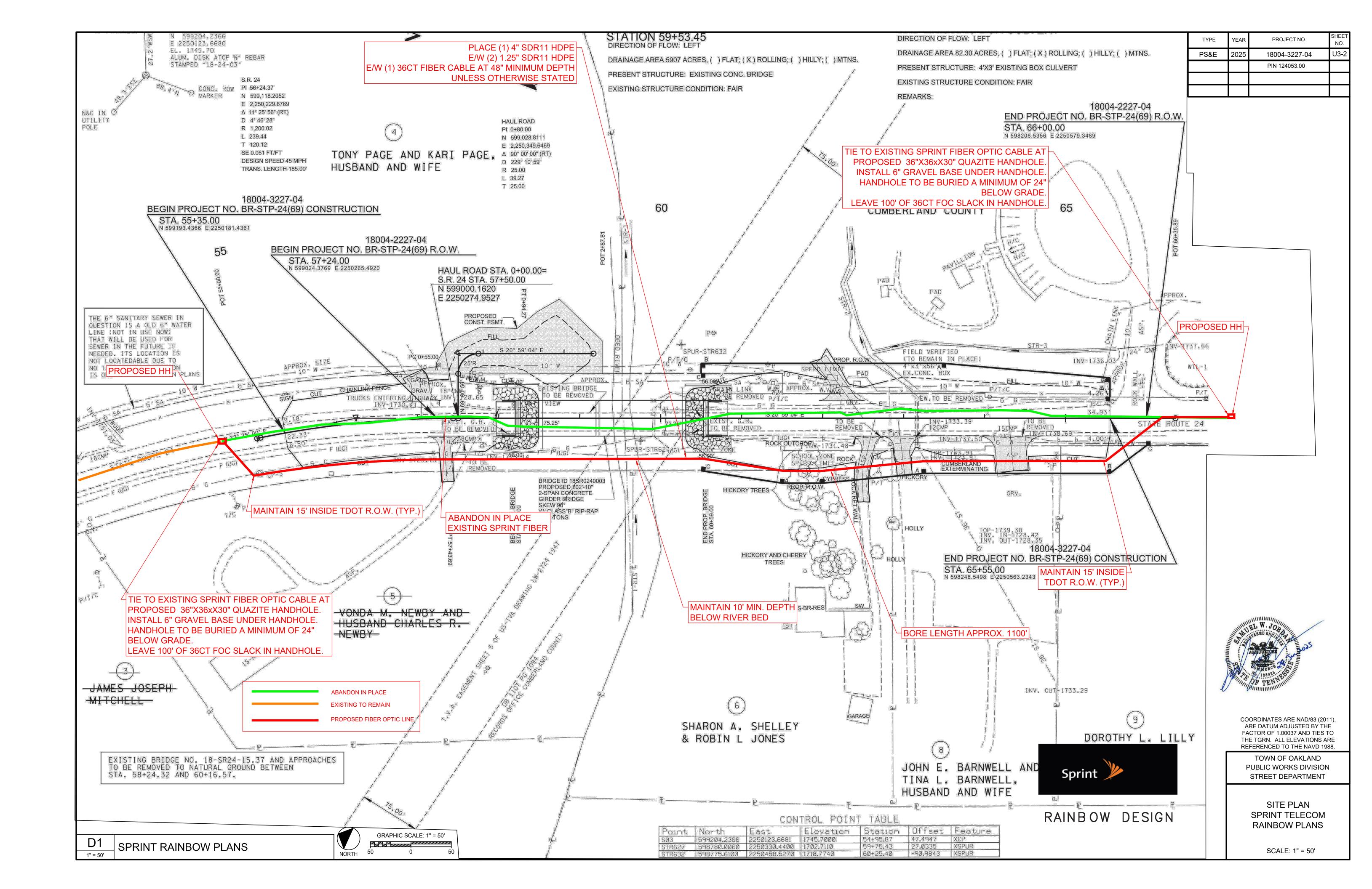
COORDINATES: NAD 83, TN STATE PLANES, ZONE, US FT

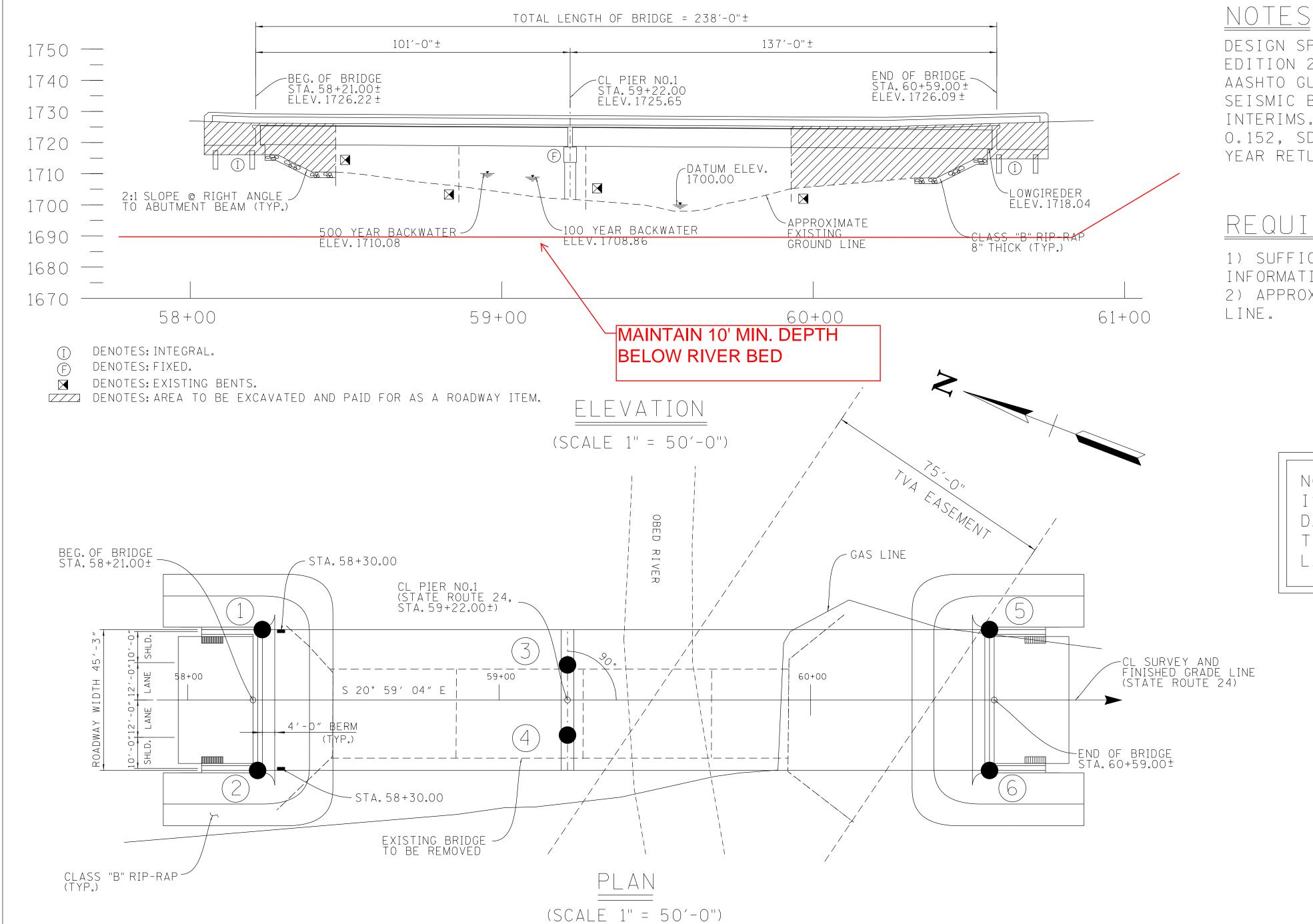
TRTH OLD DRAWING NUMBER

WBS: 124002

CABLE ROUTE DETAIL
CROSSVILLE TENNESSEE

WBS: 124002			CROSSVILLE TENNESSEE				
PRINT ND:398	1			CINO	SOVILLE TEININESSEE		
ENG. CD: MBTSI							
APPD DATE: 10-08-2024	SHEET	01	OF	02	NTWRK124-00-000-882-00177		





DESIGN SPECIFICATIONS: AASHTO LRFD 9TH EDITION 2020 WITH INTERIMS AND THE 2011 AASHTO GUIDE SPECIFICATIONS FOR LRFD SEISMIC BRIDGE DESIGN 2ND EDITION WITH INTERIMS. SEISMIC CATEGORY "B" WITH AS= 0.152, SDS = 0.275, SD1 = 0.069 (1000) YEAR RETURN PERIOD).

REQUIRED

1) SUFFICIENT GROUND, ROCK, AND CORING INFORMATION FOR BRIDGE FOUNDATIONS. 2) APPROXIMATE EXISTING GROUND AND ROCK

TO BE USED AS A

ROCK ELEVATION

GROUND ELEVATION

LAYOUT.

PROJECT NO. YEAR SHEET NO. BR-STP-24(69) 2024 REVISIONS BRIEF DESCRIPTION NO. DATE BY

18004-1227-94

NOTE: THIS DRAWING IS FOR FOUNDATION DATA ONLY AND NOT

BENCHMARKS

BM # CP-S03

PE.NO.__

STATION 54+95.87 (STATE ROUTE 24)

47.49′ (RIGHT)

N 599204.2366

E 2250123.6681

EL. 1745.70'

BM # CP-STR627

STATION 59+75.43 (STATE ROUTE 24)

27.03′ (RIGHT)

N 598780.0060

E 2250330.4400

EL. 1702.71'

BM # CP-STR632

STATION 60+25.40 (STATE ROUTE 24)

-90.98′ (LEFT)

N 598775.6100

E 2250458.5270

EL. 1718.77'

2047 ADT = 830044'-0" ROADWAY WITH STD-1-1SS PARAPETS DESIGN SPEED = 45 mph

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

FOUNDATION DATA STATE ROUTE 24 OVER

OBED RIVER BRIDGE ID. NO. 18 SRO 24 00 03 STATION 59+52.76 CUMBERLAND COUNTY 2024

59+22.00 N 598835 E 2250326 59+22.00 11.271 RIGHT 60+57.50 22.625 LEFT N 598721 E 2250406 22.625 RIGHT N 598704 E 2250363 60+57.50

OFFSET DISTANCE

22.625 LEFT

22.625 RIGHT

11.271 LEFT

NORTH

N 598940

N 598924

N 598843

EAST

E 2250322

E 2250279

E 2250347

DESIGNED BY SALIM ALSAFFAR DATE ____ 05-21 DRAWN BY____ __ DATE _____ SUPERVISED BY____ ___ DATE ____

CHECKED BY____

BORING NO.

STATION OFFSET

58+22.50

58+22.50

SSEE D.O.T.	DIVISION
TENNE	DESIGN

0 N
H H

	ESTIN	MATED UTILITY					
			Project No. 1:	18008-2221-14		_	
ITEM NO.	DESCRIPTION	UNIT	QUANTITY	% Utility	%Project	%Project	Amount
				Betterment	Public	Private	Betterment
795-03.05	6IN PVC WATER LINE	LF	450	0.00%	100.00%	0.00%	
795-03.07	10IN PVC WATER LINE	LF	450	0.00%	100.00%	0.00%	
795-07.03	6IN X 6IN TAPPING SLEEVE AND VALVE	EA	1	0.00%	100.00%	0.00%	
795-07.10	10IN X 10IN TAPPING SLEEVE AND VALVE	EA	2	0.00%	100.00%	0.00%	
795-08.04	6IN GATE VALVE ASSEMBLY	EA	1	0.00%	100.00%	0.00%	
795-08.06	10IN GATE VALVE ASSEMBLY	EA	3	0.00%	100.00%	0.00%	
795-09.01	3/4IN WATER SERVICE METER ASSEMBLY	EA	3	0.00%	100.00%	0.00%	
795-09.28	3/4IN COPPER SERVICE PIPE	LF	100	0.00%	100.00%	0.00%	
795-09.29	1IN COPPER SERVICE PIPE	LF	40	0.00%	100.00%	0.00%	
795-11.02	FIRE HYDRANT ASSEMBLY	EA	2	0.00%	100.00%	0.00%	
795-13.05	CREEK CROSSING #1	LS	1	0.00%	100.00%	0.00%	
795-15.02	12IN STEEL CASING PIPE OPEN CUT METHOD	LF	100	0.00%	100.00%	0.00%	
795-15.25	16IN STEEL CASING PIPE OPEN CUT METHOD	LF	50	0.00%	100.00%	0.00%	
795-06.30	CUT/CAP EXISTING LINES (ALL SIZES)	EA	3	0.00%	100.00%	0.00%	

_	TYPE	YEAR	PROJECT NO.	SHEET NO.
	PS&E	2025	18004-3227-04	U4-1
-			PIN	
			124053.00	
-				

REV 08-07-23: SHEET CHANGES AS PER TDOT REV 01-17-24: SHEET CHANGES AS PER TDOT

<u>INDEX OF DRAWINGS</u>

SHEET NO. DESCRIPTIONS

U4-1INDEX OF SHEETS & ESTIMATED QUANTITIES

U4-2LEGEND & GENERAL NOTES

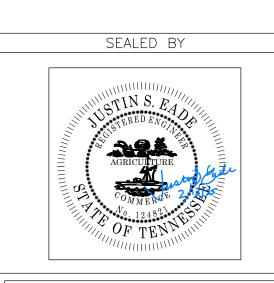
U4-3RIGHT OF WAY NOTES
U4-4EXISTING CONDITIONS

U4-<u>7..</u>......WATER DETAILS
U4-8......ROAD CROSSINGS

City of Crossville Mr. Tim Begley, Director of Engineering City of Crossville 392 North Main Street Crossville, Tennessee 38555-4232 Phone: (931) 456-6172

Fax: (931) 484-7713

Email: tim.begley@crossvilletn.gov



HUSSEY GAY BELL

THE CITY OF CROSSVILLE, TENNESSEE

WATER RELOCATION

INDEX OF SHEETS AND SCALE: NTS

6''W —	6"W —	
6''G —	6"G —	GAS
6"SA —	6"SA —	SEWER
6''FMS	6"FMS —	FORCE MAIN
C(UG) —	C(UG)	CABLE (UG)
F(UG) —	F(UG)	FIBER OPTIC (UG)
P/T —	P/T	POWER/TELEPHONE
Р ———	Р ———	POWER
P(UG) —	P(UG) —	POWER (UG)
P/C	P/C	POWER/CABLE
P/TV	P/TV	POWER/TV
т/с —	т/с —	TELEPHONE/CABLE
т —	т ——	TELEPHONE
T(UG) —	T(UG)	TELEPHONE (UG)
TV(UG)	TV(UG)	TELEVISION (UG)
TV	TV	TELEVISION
\otimes		FIRE HYDRANT
G.N		GAS METER
G.1 G.		GAS VALVE
C.		MANHOLE
		SEWER MANHOLE
S.'		SEWER VALVE
	TEL. PED.	TELEPHONE PEDESTAL
\leftarrow		POWER POLE
)	POWER POLE w/LIGHT
 W.1		WATER METER
W.		WATER VALVE
PROPOSED UTILITIES & MODIFIC	CATIONS	
6"W —		PROPOSED WATER LINE
6''W RIP		EX. WATER LINE (RETIRED IN PLACE)
X 6"WX 6"W	-XX 6''W	EX. WATER LINE (TO BE REMOVED)
6''W —		EX. WATER LINE (TO REMAIN)
	4	PROPOSED WATER VALVE

PROPOSED HYDRANT

Project Notes

1.	All materials, methods, and/or integral materials outlined in the utility specifications or
	drawings necessary to provide a complete and functional installation must be included
	in the Unit Price for the associated Utility Work item.

- 2. The contractor must maintain all services during the construction of the relocated facility. Any costs associated with installation of required temporary service lines due to the roadway construction sequence of work (i.e., cuts, fills, phasing, etc.) shall be included in the cost of the permanent utility items.
- It shall be the responsibility of the Contractor to lay out all the facilities being relocated within the contract with regards to horizontal and vertical location..
- 4. For buried utilities, the contractor shall be required to provide to the Utility upon completion of the relocation work a set of as-built drawings for their records. These asbuilt drawings should be prepared as the installation progresses to ensure their accuracy.
- Driveway, sidewalk and roadway temporary restoration shall be part of the in-place cost of placing the utility item within the ROW.
- Any excavation of the stream channel area shall be separated from flowing water and accomplished during low flow conditions. This shall be accomplished by the use of flumes, lined diversion channel with sandbag berm, diversion pipe with sandbag dam at pipe inlet, or in some cases cofferdams. Alternatively, based on field conditions and contractor selection, the utility relocation may be accomplished using horizontal bore technology with no stream channel impacts.
- 7. All water lines shall be installed with a minimum cover of 36", unless shown otherwise.
- Contractor shall verify locations and depths of all existing utilities prior to beginning construction. Coordinates shown for connections to existing water lines are approximate.
- 9. Contractor shall verify locations and depths of all existing utilities prior to beginning road crossings and notify Engineer of any conflicts.
- 10. Contractor to coordinate location of "Service Connections" with the City of Crossville as well as any and all cuts & caps on existing service lines.
- 11. All 2" HDPE water line, Item #795-02.01 shall be used for "2" HDPE Casing Pipe Open Cut Method" installation.
- Item #795-03.10 10" PVC Water Line shall be used as a casing pipe for 6" PVC Water Line where minimum distances with other utility lines or drainage line that cannot be maintained.
- L3. Elevations given for driveway/sideroads shall be maintained for entire width of the driveway/side road crossings.
- 14. HDPE water lines shall extend a minimum of 5' past the end of casing.

TYPE YEAR PROJECT NO. SHELT NO. PS&E 2025 18004-3227-04 U4-2 PIN 124053.00

REV 08-07-23: SHEET CHANGES AS PER TDOT REQUEST

REV 01-17-24: SHEET CHANGES AS PER TDOT

ed Notes for Estimating Costs of Bid Items

WATER LINES

INCLUDES ALL MATERIALS, LABOR, EQUIPMENT FOR COMPLETE INSTALLATION OF PIPE INCLUDING BUT NOT LIMITED TO TRAFFIC CONTROL, MATERIALS, EQUIPMENT, EXCAVATION IN BOTH UNCONSOLIDATED AND ROCK, REMOVAL AND REPLACEMENT OF UNSUITABLE SOIL, ENVELOPE/BEDDING MATERIAL, BACKFILLING, FLOWABLE FILL, THRUST BLOCKING, CONCRETE DEADMAN, PIPE FUSION, TRACER WIRE, WARNING TAPE, APPURTENANCES, TEMPORARY/PERMANENT SHORING, MAINTAINING THE TRENCH, TESTING, FLUSHING, DISINFECTION, BACTERIOILOGICAL SAMPLING, TEMPORARY/PERMANENT SURFACE RESTORATION, AND ANY OTHER LABOR OR MATERIAL REQUIRED TO COMPLETE THE WORK AS SPECIFIED ON THE PLANS.

INSTALLATION OF ALL FITTINGS USED IS TO BE INCLUDED IN THE BID PRICE OF THE PIPE. NO ADDITIONAL PAYMENT ITEM WILL BE SHOWN FOR FITTINGS.

HORIZONTAL DIRECTIONAL DRILLING

INCLUDES ALL MATERIALS, LABOR, EQUIPMENT, AND TRAFFIC CONTROL, INCLUDING BUT NOT LIMITED TO FLUID CONTAINMENT FOR COMPLETE HORIZONTAL DIRECTIONAL DRILLING INSTALLATION OF CASING PIPE OR UNCASED CARRIER PIPE IN BOTH UNCONSOLIDATED SOIL OR ROCK. IF CASING PIPE HAS CARRIER PIPE, THE CARRIER PIPE SHALL BE PAID AT THE OPEN CUT ITEM.

CONNECTION TO EXISTING WATER LINE

INCLUDES ALL MATERIALS, LABOR, AND EQUIPMENT NECESSARY FOR CONNECTING TO AN EXISTING WATER LINE INCLUDING TRAFFIC CONTROL.

TAPPING SLEEVES AND VALVES

INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT INCLUDING BUT NOT LIMITED TO TAPPING SLEEVE, VALVE, VALVE BOX, BOX ADJUSTMENT, VALVE BOX COLLAR, VALVE MARKER, EXCAVATION, BEDDING, BACKFILL, BLOCKING AND RESTRAINT, TAP OF EXISTING LINE, AND TRAFFIC CONTROL.

WATER VALVES

INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT INCLUDING BUT NOT LIMITED TO FITTINGS, VALVE, VALVE STEM EXTENSIONS, VALVE BOX AND COVER, BOX ADJUSTMENT, VALVE BOX COLLAR, VALVE MARKER, EXCAVATION, BEDDING, BACKFILL, BLOCKING, AND TRAFFIC CONTROL.

MISCELLANEOUS ASSEMBLIE

INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT INCLUDING BUT NOT LIMITED TO MACHINERY, TOOLS OR APPARATUS NECESSARY FOR INSTALLATION OF ASSEMBLIES AS DESCRIBED IN THE PLANS AND SPECS EXCEPT FOR SERVICE LINE WHICH IS PAID SEPERATELY FOR EACH FOOT INSTALLED.

WATER SERVICE LIN

INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT FOR COMPLETE INSTALLATION OF SERVICE LINE OR CASING FOR SERVICE LINE ON LONG SIDE AND SHORT SIDE OF MAIN.

LUMP SUM ITEMS

INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT FOR COMPLETE INSTALLATION OF UNIT OR LUMP SUM ITEM AS SPECIFIED ON BID FORM..

EMOVAL

INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT FOR REMOVAL OF ITEM.

CASING PIPE - BORE AND JACK INSTALLATIO

INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT INCLUDING BUT NOT LIMITED TO CASING PIPE, PIPE SPACERS, CASING END SEALS, FITTINGS, TRACER WIRE, WARNING TAPE, UTILITY LINE MARKERS AND TRAFFIC CONTROL. IF CASING PIPE HAS CARRIER PIPE, THE CARRIER PIPE SHALL BE PAID AT THE OPEN CUT ITEM.

CASING PIPE - OPEN CUT INSTALLATION

INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT INCLUDING BUT NOT LIMITED TO CASING PIPE, PIPE SPACERS, CASING END SEALS, FITTINGS, TRACER WIRE, WARNING TAPE, UTILITY LINE MARKERS AND TRAFFIC CONTROL. IF CASING PIPE HAS CARRIER PIPE, THE CARRIER PIPE SHALL BE PAID AT THE OPEN



HUSSEY GAY BELL

—— Established 1958 ——

THE CITY OF

THE CITY OF
CROSSVILLE, TENNESSEE



LEGEND AND GENERAL NOTES

SCALE: NTS

RIGHT-OF-WAY

UTILITY

- (1) IT IS INTENDED THAT ALL BUILDINGS AND/OR PORTIONS OF BUILDINGS THAT ARE WITHIN THE PROPOSED RIGHT-OF-WAY AND/OR EASEMENT LINES FOR THE PROJECT BE REMOVED THERE FROM IN THE PROCESS OF RIGHT-OF-WAY ACQUISITION. IF ANY SUCH BUILDINGS OR IMPROVEMENTS ARE NOT REMOVED IN THE COURSE OF RIGHT-OF-WAY ACQUISITION, THE CIVIL ENGINEERING MANAGER 2, ROADWAY DESIGN DIVISION IS TO BE NOTIFIED IN SUFFICIENT TIME TO PERMIT HAVING SUCH REMOVALS DESIGNATED AS A PART OF THE CONSTRUCTION CONTRACT.
- (2) ALL RAMPS MUST CONFORM TO THE DEPARTMENT'S "POLICY ON FINANCING CONSTRUCTION OF PUBLIC ROAD INTERSECTIONS AND DRIVEWAYS ON HIGHWAY RESURFACING, RECONSTRUCTION AND CONSTRUCTION PROJECTS ON NEW LOCATIONS", THE MANUAL ON RULES AND REGULATIONS FOR CONSTRUCTING DRIVEWAYS ON STATE HIGHWAY RIGHT-OF-WAY, STANDARD DRAWING RP-R-1, AND OTHER ACCEPTED DESIGN AND SAFETY STANDARDS.
- (3) EXISTING PAVED DRIVEWAY PER TRACT REMAINDER WILL BE REPLACED IN KIND TO A TOUCHDOWN POINT.
- (4) WHERE THE EXISTING DRIVEWAY IS UNPAVED AND THE PROPOSED DRIVEWAY EXCEEDS 7 PERCENT IN GRADE, EACH DRIVEWAY WILL BE PAVED TO A TOUCHDOWN POINT OR UNTIL THE GRADE IS LESS THAN 7 PERCENT.
- (5) WHERE THE EXISTING DRIVEWAY IS UNPAVED AND THE PROPOSED DRIVEWAY IS LESS THAN 7 PERCENT IN GRADE, EACH DRIVEWAY WILL BE PAVED A SHOULDER WIDTH FROM THE EDGE OF PAVEMENT AND THE REMAINDER OF THAT DRIVEWAY REPLACED IN KIND TO A TOUCHDOWN POINT.
- (6) ANY NECESSARY PAVING OF DRIVEWAYS WILL BE DONE DURING PAVING OPERATIONS ON THE MAIN ROADWAY.
- (7) NEW DRIVEWAYS PROVIDED IN THE PLANS WILL BE PAVED BASED ON THE 7 PERCENT CRITERIA. THOSE 7 PERCENT OR STEEPER IN GRADE WILL BE PAVED AND THOSE FLATTER THAN 7 PERCENT WILL BE COVERED WITH BASE STONE.
- (8) ON PROJECTS WITHOUT CURB AND GUTTER THAT ARE ON STATE ROUTES, IT WILL BE THE RESPONSIBILITY OF THE OWNER TO SECURE A PERMIT AND TO CONSTRUCT ADDITIONAL DRIVEWAYS AND FIELD ENTRANCES OTHER THAN THOSE PROVIDED IN THE PLANS.

APPROXIMATE ONLY. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES. ABOVE GRADE AND UNDERGROUND UTILITIES SHOWN WERE TAKEN FROM VISIBLE APPURTENANCES AT THE SITE, PUBLIC RECORDS, AND/OR MAPS PREPARED BY OTHERS. THEREFORE, RELIANCE UPON THE TYPE, SIZE, AND LOCATION OF UTILITIES SHOWN SHOULD BE

VERIFICATION OF EXISTENCE, LOCATION, AND DEPTH SHOULD ALSO BE MADE PRIOR TO ANY DECISION RELATIVE THERETO IS MADE. AVAILABILITY AND COST OF SERVICE SHOULD BE CONFIRMED WITH THE APPROPRIATE

UNDERGROUND UTILITY DAMAGE PREVENTION ACT", THAT ANYONE WHO ENGAGES IN EXCAVATION MUST NOTIFY ALL KNOWN UNDERGROUND UTILITY OWNERS, NO LESS THAN THREE (3) OR NOT MORE THAN TEN (10) WORKING DAYS PRIOR TO THE DATE OF THEIR INTENT TO EXCAVATE AND

ALSO TO AVOID ANY POSSIBLE HAZARD OR CONFLICT. NOTIFICATION BY CALLING THE TENNESSEE ONE CALL SYSTEM, INC., AT 1-800-351-1111 AS

UTILITY COMPANY, IN TENNESSEE, IT IS A REQUIREMENT, PER "THE

THE LOCATIONS OF UTILITIES SHOWN WITHIN THESE PLANS ARE

DONE SO WITH THIS CIRCUMSTANCE CONSIDERED. DETAILED

REQUIRED BY TCA 65-31-106 WILL BE REQUIRED.

- (2) UNLESS OTHERWISE NOTED, ALL UTILITY ADJUSTMENTS WILL BE PERFORMED BY THE UTILITY OR ITS 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.
- 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 ARCUND THE UTILITY IN ACCORDANCE WITH TCA 65-31-106 NOTIFICATION BY CALLING THE TENNESSEE ONE CALL SYSTEM, INC AT 1-800-351-1111 WILL BE REQUIRED.

UTILITY OWNERS

CABLE:

CHARTER COMMUNICATIONS

38 WEST BROAD STREET COOKEVILLE, TN 38501 CONTACT: MR. LESTER HAFFNER

OFFICE PHONE: 931 675 0406

FAX: 931 644 5705

Email: Leslie.haffner@charter.com

ELECTRIC:

VOLUNTEER ENERGY COOPERATIVE

P.O. BOX 277

DECATUR, TN 37322

CONTACT: MR. MATTHEW TEAGUE

OFFICE PHONE: 423 334 7040

FAX 423 334 7005

GAS:

MIDDLE TENNESSEE NATURAL GAS

SMITHVILLE, TN 37166

CONTACT: MR. MATTHEW WHITAKER

OFFICE PHONE: 615 597 0513

FAX 615 597 6331

TELEPHONE:

P.O. BOX 670

FRONTIER/CITIZENS COMMUNICATIONS COMPANY

174 SPARTA HIGHWAY
CROSSVILLE, TN 38572
CONTACT: MR. JIM HEATHERLY
OFFICE PHONE: 865 947 8200

CABLE:

FIBER OPTICS: VOLFIRST

P.O. BOX 670

MCMINNVILLE, TN 37111

CONTACT: MR. RICHARD BOYD

OFFICE PHONE: 931 668 6692

FAX 931 668 7653

Email: Rboyd@blomed.net

WATER:

CITY OF CROSSVILLE

392 NORTH MAIN STREET
CROSSVILLE, TN 38555-4232
CONTACT: MR. TIM BEGLEY
OFFICE PHONE: 931 456 5680
FAX: 931 484 7713

TYPE	YEAR	PROJECT NO.	NO.
PS&E	2025	18004-3227-04	U4-3
		PIN	
		124053.00	

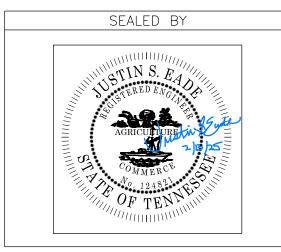
REV 08-07-23: SHEET CHANGES AS PER TDOT REQUEST

REV 01-17-24: SHEET CHANGES AS PER TDOT REQUEST

DISTURBED AREA	A	
IN BETWEEN SLOPE LINES	2.009	(AC)
15 FOOT WIDE STRIP (OUTSIDE SLOPE LINES)	0.949	(AC)
TOTAL DISTURBED AREA	2.957	(AC)
TOTAL PROJECT AREA	3.306	(AC)

	R.O.W. ACQUISITION TABLE																
TRACT	эт		COUNTY RECORDS		TOTAL AREA (ACRES)		AREA TO BE ACQUIRED (ACRES)		AREA REMAINING (ACRES)		EASEMENT (ACRES)						
NO.	PROPERTY OWNERS	TAX MAP	PARCEL	DEED DOCUMENT	REFERENCE	LEFT	RIGHT	TOTAL	LEFT	RIGHT	HT TOTAL	LEFT	RIGHT	PERMANENT	SLOPE	CONSTRUCTION	AIR RIGHTS
		NO.	NO.	воок	PAGE	LEFT	KIGHT	IOIAL	LEFT	KIGHT	IOIAL	LEFT	KIGHT	PERMANENT	SLOPE	(1)	AIR RIGHTS
1	FRED STOUT	871	005.00	1493	692	1.010		1.010				1.010					
2	FRED STOUT	871	006.00	1493	692	1.040		1.040				1.040					
3	JAMES JOSEPH MITCHELL	086	057.00	285	788		115.910	115.910					115.910				
4	TONY PAGE AND KARI PAGE, HUSBAND AND WIFE	087I A	015.00	1603	830	33.260		33.260				33.260				0.290	
-5-	VONDA M NEWBY AND HUSBAND CHARLES R NEWBY	087	053.00	1327	678		4.300	4.300					4.300				
6	SHARON A SHELLEY AND ROBIN L JONES	087	054.00	1236	1981		3.330	3.330		0.136	0.136		3.194				
7	CUMBERLAND COUNTY	087	59.00	1262	1312	67.030		67.030	0.349		0.349	66.681					
8	JOHN E. BARNWELL AND TINA L. BARNWELL, HUSBAND AND WIFE	087	055.00	1669	1321		2.070	2.070		0.151	0.151		1.919				
9	DOROTHY L. LILLY	087	056.00	1300	1976		2.020	2.020		2864 S.F.	2864 S.F.		1.954				
	ACQUISITION TOTALS (AC	RES)								0.702						0.290	

(1) ESMT. NEEDED FOR HAUL ROAD.



HUSSEY GAY BELL

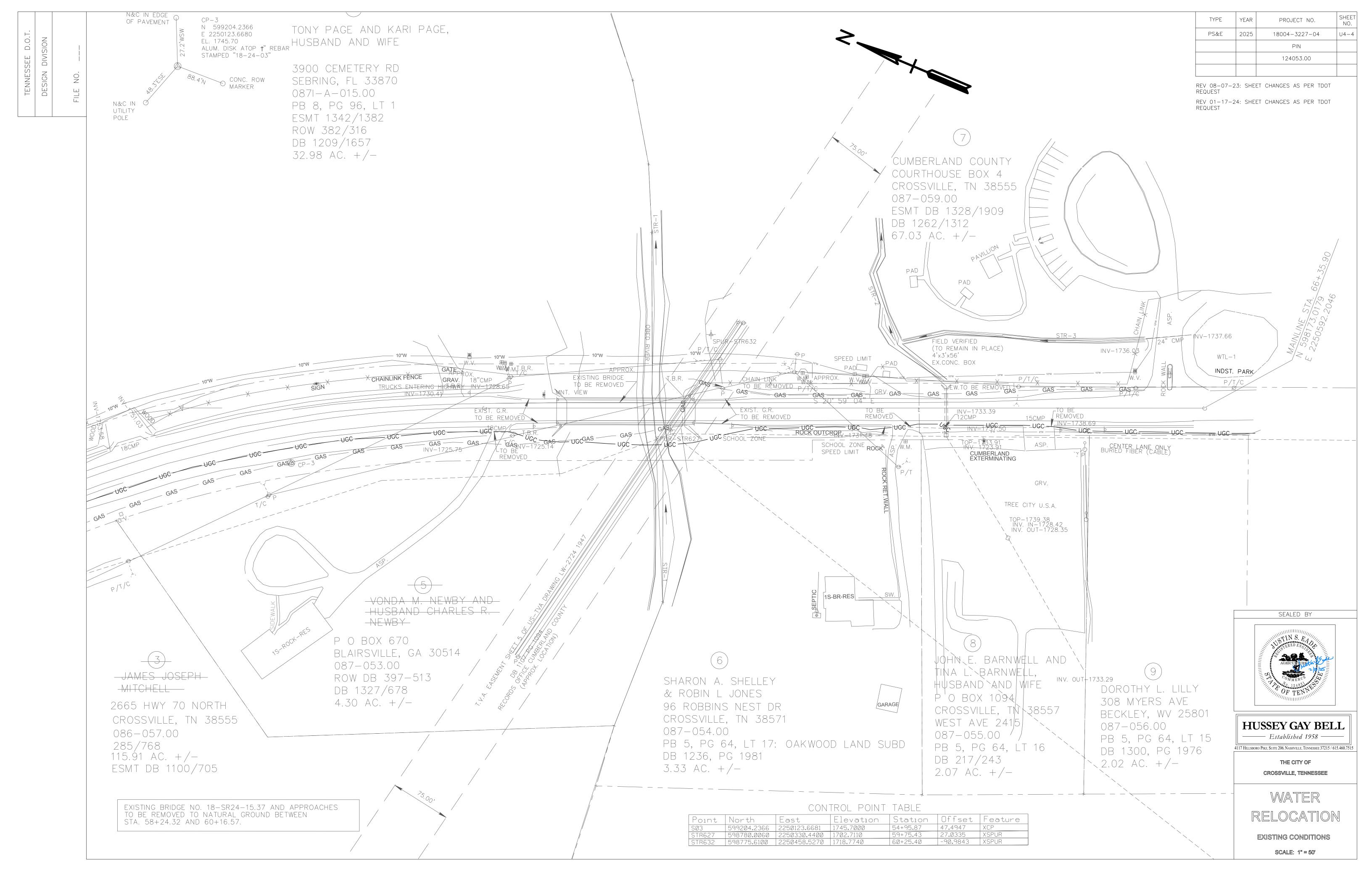
— Established 1958 —

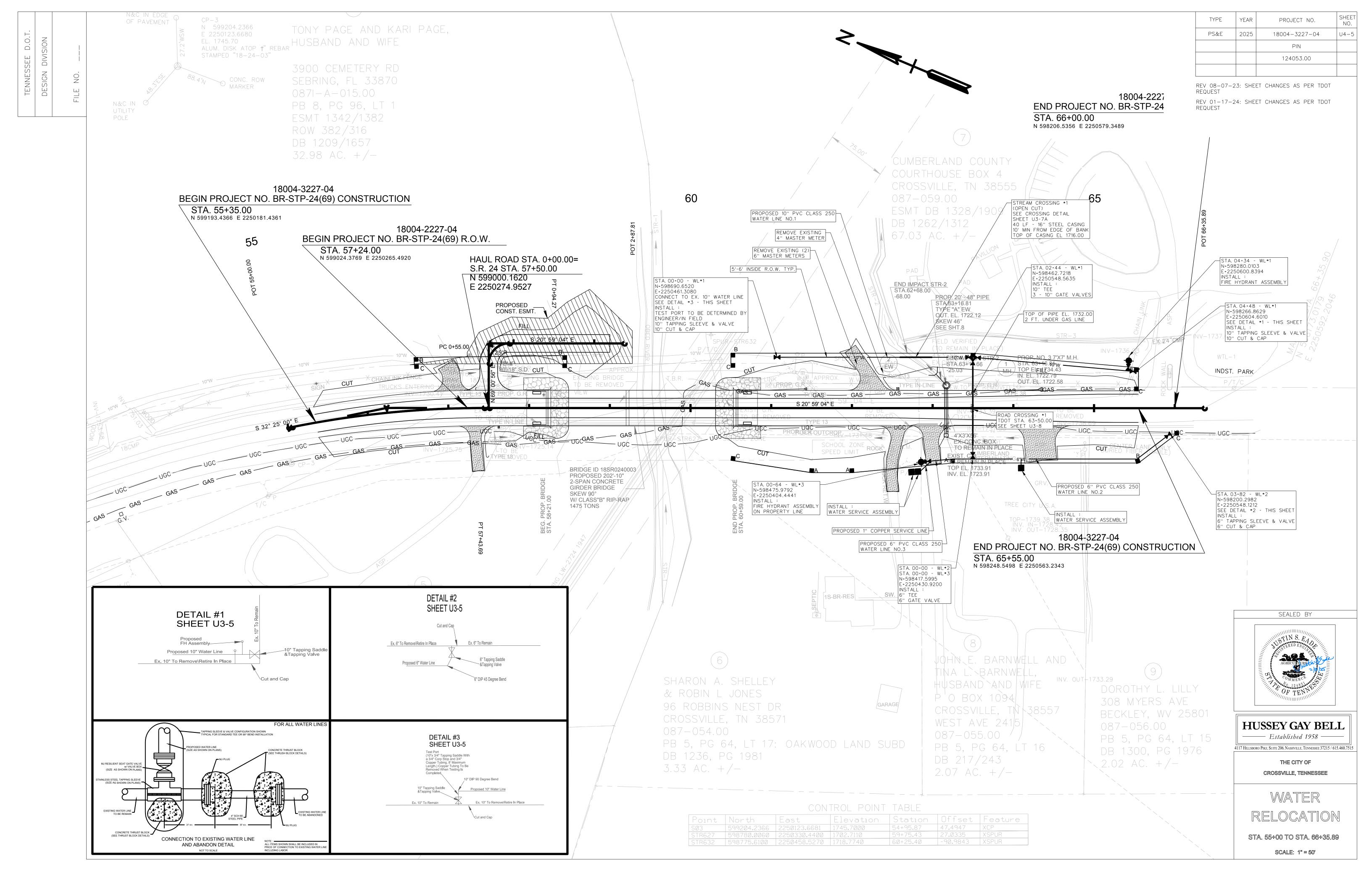
4117 HILLSBORO PIKE, SUITE 206, NASHVILLE, TENNESSEE 37215 / 615.460.751

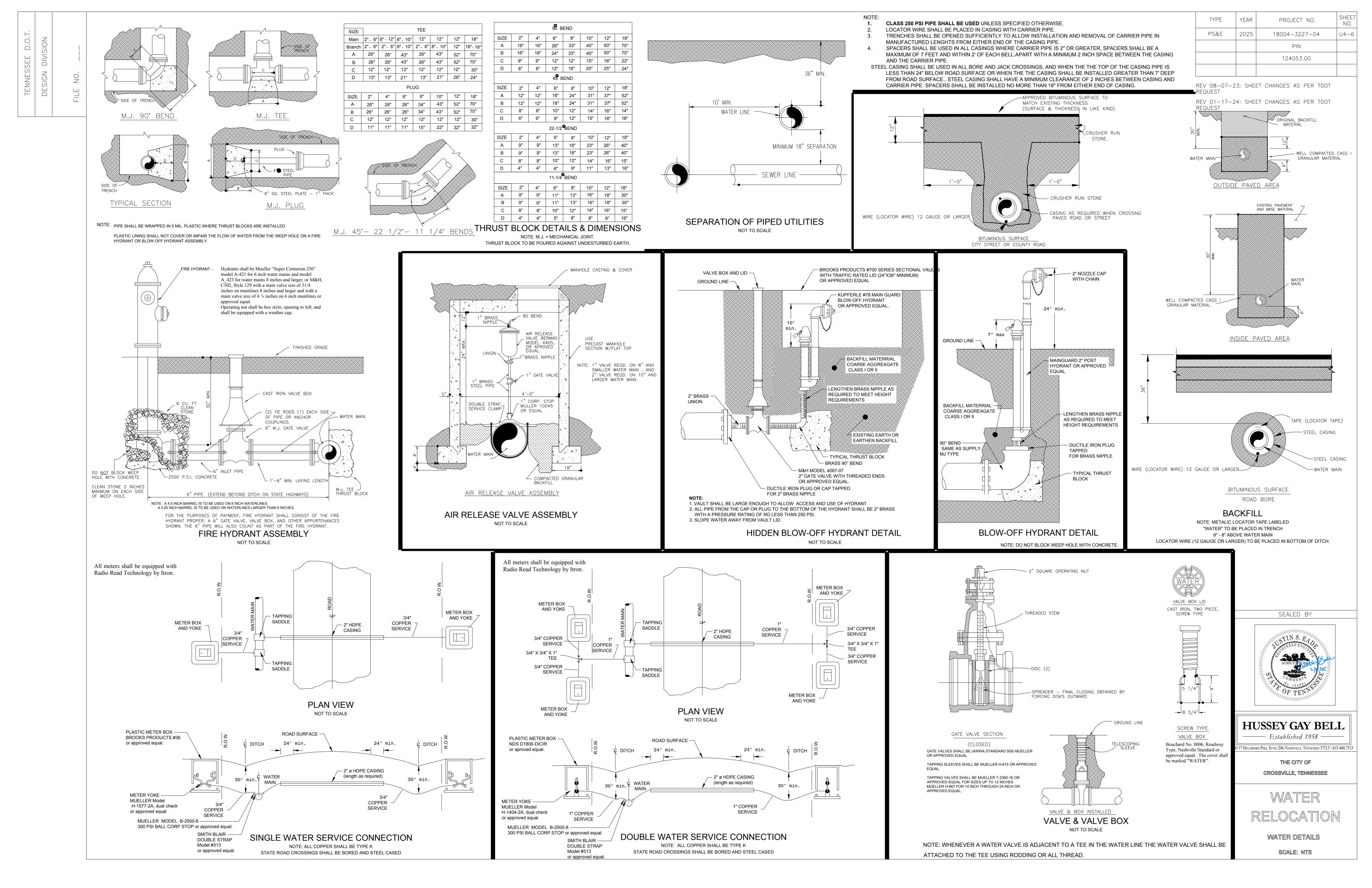
THE CITY OF
CROSSVILLE, TENNESSEE

WATER RELOCATION

R.O.W. AND UTILITY NOTES, UTILITY
OWNERS, & R.O.W. AQUISITION
SCALE: NTS







TENNESSEE D.O.T.	DESIGN DIVISION	
—		

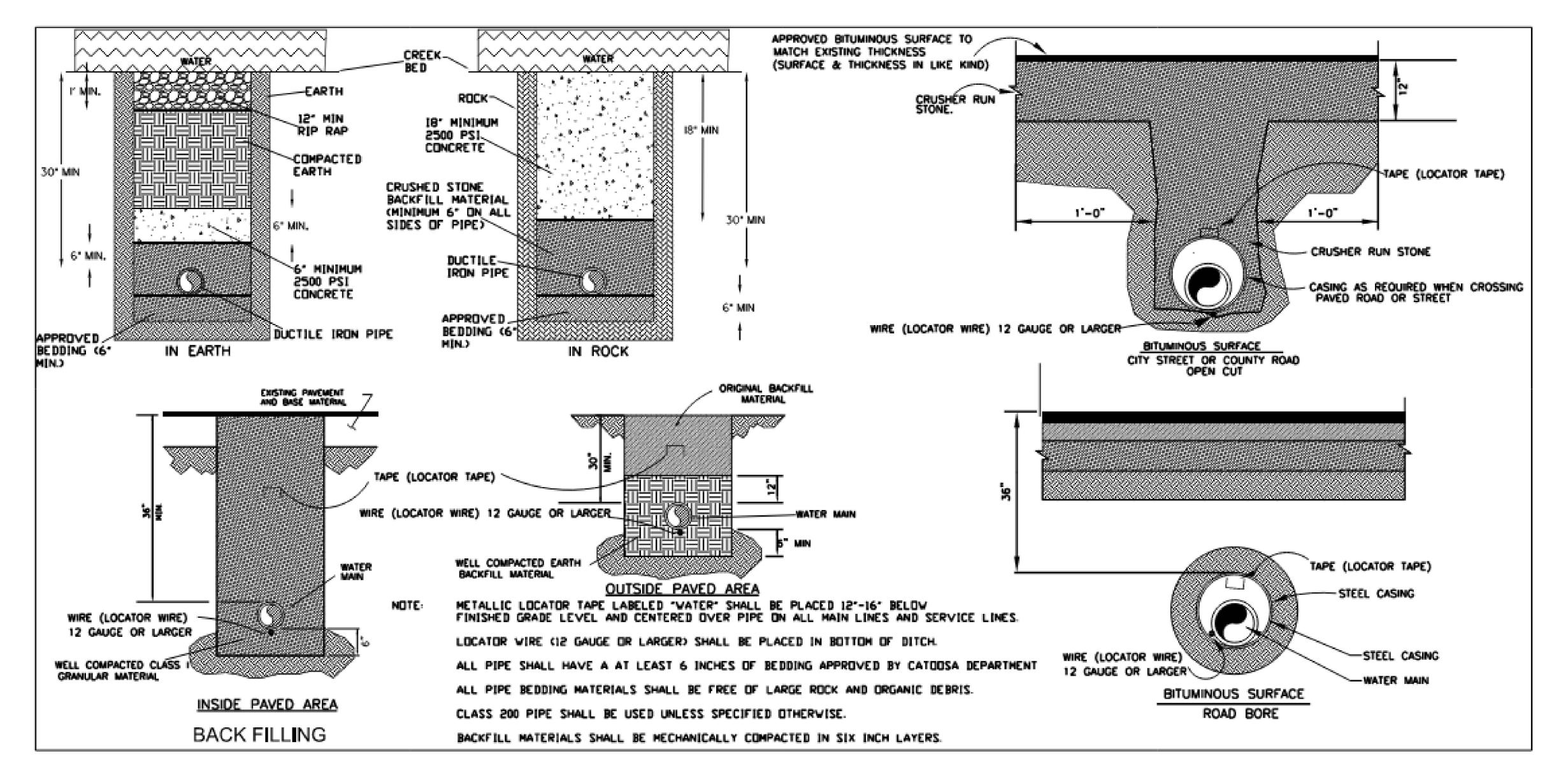
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2025	18004-3227-04	U4-7
		PIN	
		124053.00	

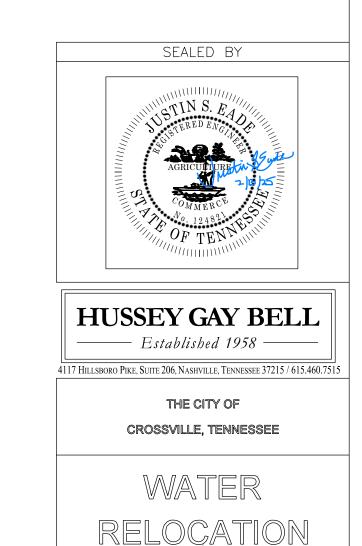
REV 08-07-23: SHEET CHANGES AS PER TDOT REQUEST

REV 01-17-24: SHEET CHANGES AS PER TDOT REQUEST

TYPICAL STREAM CROSSING

NO SCALE





WATER DETAILS

SCALE: NTS

ON FILE		TYPE YEAR PROJECT NO. SHEET NO. PS&E 2025 18004-3227-04 U4-8 PIN 124053.00 REV 08-07-23: SHEET CHANGES AS PER TDOT REQUEST REV 01-17-24: SHEET CHANGES AS PER TDOT REQUEST
<u>1770</u> <u>1760</u>	7. R.O. W. Sec. 0.00 W. Sec. 0.	
1750	PRES. R.O.W. OFFSET - 30.92 6" WATER 6" WATER 6" CAS 6" CAS 6" GAS 6" GAS 6" GAS 6" GAS 6" GAS	1750
<u> 1740</u> 1730	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	<u> 1740</u> 1730
1720	PROPOSED 6" PVC CLASS 200 PROPOSED 6" PVC CLASS 200 WATER LINE TOP OF CASING EL. 1730.00 MAX. TOP OF CASING EL. 1721.00 MAX. PROPOSED 12" STEEL CASINC PIPE PROPOSED 12" STEEL CASINC PIPE	SR 24 63+50.00 CROSSING #1 _1720
	90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90	SEALED BY AGRICULTURA SET AND AGRICULTURA SET AND AGRICULTURA SET AGRICULTURA

 				ESTIMATED	UTILITY	QUANTIT	IES			
							Project No. 1:	18002-3233-94		
		·	ITEM NO.	DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	% Utility	%Project	%Project
	DES							Betterment	Public	Private
			797-09.46	CUT AND CAP 6IN FORCE MAIN	EA		1	0.00%	100.00%	0.00%

TYPE	YEAR	YEAR PROJECT NO.	
PS&E	E 2025 18004-3227-04		U5-1
		PIN	
		124053.00	

Betterment

REV 08-07-23: SHEET CHANGES AS PER TDOT REQUEST

REV 01-17-24: SHEET CHANGES AS PER TDOT REQUEST

Amount

INDEX OF DRAWINGS

 SHEET NO.
 DESCRIPTIONS

 U5-1
 INDEX OF SHEETS & ESTIMATED QUANTITIES

 U5-2
 LEGEND & GENERAL NOTES

 U5-3
 RIGHT OF WAY NOTES

 U5-4
 EXISTING CONDITIONS

 U5-5
 STA. 5+07.32 TO STA. 17+30.00

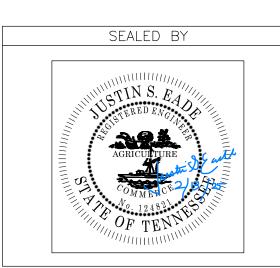
 U5-6
 SEWER DETAILS

City of Crossville

Mr. Tim Begley, Director of Engineering City of Crossville 392 North Main Street Crossville, Tennessee 38555-4232

Phone: (931) 456-6172 Fax: (931) 484-7713

Email: tim.begley@crossvilletn.gov



HUSSEY GAY BELL Established 1958 4117 HILLSBORD PIKE, SUITE 206, NASHVILLE, TENNESSEE 37215 / 615.460.7515

THE CITY OF CROSSVILLE, TENNESSEE

SEWER RELOCATION

INDEX OF SHEETS AND ESTIMATED QUANTITIES SCALE: NTS

SYMBOLOGY AND LINESTYLES EXISTING UTILITIES WATER GAS SEWER FORCE MAIN - 6"FMS — CABLE (UG) —— C(UG) —— FIBER OPTIC (UG) — F(UG) ——— — F(UG) —— POWER/TELEPHONE POWER POWER (UG) POWER/CABLE POWER/TV TELEPHONE/CABLE TELEPHONE TELEPHONE (UG) TELEVISION (UG) — TV(UG) ——— ----- TV(UG) ----TELEVISION FIRE HYDRANT GAS METER G.M. GAS VALVE G.V. MANHOLE SEWER MANHOLE SEWER VALVE n TEL. PED. TELEPHONE PEDESTAL POWER POLE POWER POLE w/LIGHT WATER METER W.M. WATER VALVE W.V. PROPOSED UTILITIES & MODIFICATIONS PROPOSED WATER LINE EX. WATER LINE (RETIRED IN PLACE) EX. WATER LINE (TO BE REMOVED) ____X___X___6''W ___X___X___6''W ___X___X___6''W ____ EX. WATER LINE (TO REMAIN) PROPOSED WATER VALVE PROPOSED WATER REDUCER PROPOSED WATER METER

PROPOSED HYDRANT

Project Notes

- All materials, methods, and/or integral materials outlined in the utility specifications or drawings necessary to provide a complete and functional installation must be included in the Unit Price for the associated Utility Work item.
- The contractor must maintain all services during the construction of the relocated facility. Any costs associated with installation of required temporary service lines due to the roadway construction sequence of work (i.e., cuts, fills, phasing, etc.) shall be included in the cost of the permanent utility items.
- It shall be the responsibility of the Contractor to lay out all the facilities being relocated within the contract with regards to horizontal and vertical location.
- For buried utilities, the contractor shall be required to provide to the Utility upon completion of the relocation work a set of as-built drawings for their records. These asbuilt drawings should be prepared as the progresses to ensure their accuracy.
- Driveway, sidewalk and roadway temporary restoration shall be part of the in-place cost of placing the utility item within the ROW.
- Any excavation of the stream channel area shall be separated from flowing water and accomplished during low flow conditions. This shall be accomplished by the use of flumes, lined diversion channel with sandbag berm, diversion pipe with sandbag dam at pipe inlet, or in some cases cofferdams. Alternatively, based on field conditions and contractor selection, the utility relocation may be accomplished using horizontal bore technology with no stream channel impacts.
- All sewer lines shall be installed with a minimum cover of 36", unless shown otherwise.
- Coordinates and elevations shown for connections to existing sewer lines are approximate.
- Contractor shall verify locations and depths of all existing utilities prior to beginning road crossings and notify Engineer of any conflicts.
- Contractor to coordinate location of "Service Connections" with the City of Crossville.

Notes for Estimating Costs of Bid Items

SEWER LINES OR FORCE MAINS

INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT FOR COMPLETE EXCAVATION INCLUDING BUT NOT LIMITED TO BEDOING, BACKFILLING, FITTINGS, THRUST BLOCKING, PIPE FUSION, APPURTENANCES, FLOWABLE FILL, MAINTAINING THE TRENCH, TESTING, CHECK DAMS, AND ANY OTHER LABOR OR MATERIAL REQUIRED TO COMPLETE FOR GRAVITY SEWER LINES OR FORCE MAINS AS SPECIFIED ON THE PLANS, DUCTILE IRON PIPE GRAVITY SEWER LINES SHALL BE EPOXY LINED.

INSTALLATION OF ALL FITTINGS USED IS TO BE INCLUDED IN THE BID PRICE OF THE PIPE. NO ADDITIONAL PAYMENT ITEM WILL BE SHOWN FOR FITTINGS.

HORIZONTAL DIRECTIONAL DRILLING

INCLUDES ALL MATERIALS, LABOR, EQUIPMENT, AND TRAFFIC CONTROL, INCLUDING BUT NOT LIMITED TO FLUID CONTAINMENT FOR COMPLETE HORIZONTAL DIRECTIONAL DRILLING INSTALLATION OF CASING PIPE OR UNCASED CARRIER PIPE IN BOTH UNCONSOLIDATED SOIL OR ROCK, IF CASING PIPE HAS CARRIER PIPE, THE CARRIER PIPE SHALL BE PAID AT THE OPEN CUT ITEM.

CONNECTION TO EXISTING SEWER LINE, MANHOLE OR FORCE MAIN

INCLUDES ALL MATERIALS, LABOR, AND EQUIPMENT NECESSARY FOR CONNECTING TO AN EXISTING FORCE MAIN, SEWER LINE, PUMP STATION, OR MANHOLE AS SPECIFIED ON PLANS, INCLUDING TRAFFIC

INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT NECESSARY FOR INSTALLATION OF PRECAST MANHOLE BOTH PREFORMED BASE OR OPEN BOTTOM (DOGHOUSE), INCLUDING BUT NOT LIMITED TO VENT ASSEMBLY (WHERE REQUIRED), CRUSHED STONE, PIPE TO MANHOLE CONNECTORS, EXCAVATION, BACKFILL, BUTYL RESIN GASKET, MANHOLE STEPS, ASPHALTIC WATERPROOFING, FRAME AND COVER,

SEWER OR FORCE MAIN VALVES

INCLUDES AUL MATERIALS, LABOR AND EQUIPMENT INCLUDING BOT NOT LIMITED TO VALVE, VALVE BOX, BOX ADJUSTMENT, VALVE BOX COLLAR, VALVE MARKER, EXCAVATION, BEDDING, BACKFILL, BLOCKING, AND TRAFFIC CONTROL.

MISCELLANEOUS VALVE ASSEMBLIES

INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT, INCLUDING BUT NOT LIMITED TO MACHINERY, TOOLS, OR APPARATUS NECESSARY FOR INSTALLATION OF ASSEMBLIES AS DESCRIBED AND DETAILED IN THE PLANS AND SPECS.

INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT FOR COMPLETE INSTALLATION OF SERVICE LINE OR CASING FOR SERVICE LINE INCLUDING TRAFFIC CONTROL.

INCLUDES ALL MATERIALS, LABOR, AND EQUIPMENT FOR INTERNAL OR EXTERNAL POINT REPAIRS AS SPECIFIED ON THE BID FORM.

INCLUDES ALL MATERIALS, LABOR, AND EQUIPMENT FOR RETIRE IN PLACE OR REMOVE ITEMS AS SPECIFIED ON THE BID FORM INCLUDING TRAFFIC CONTROL

CASING PIPE - BORE AND JACK INSTALLATION

INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT INCLUDING BUT NOT LIMITED TO CASING PIPE, PIPE SPACERS, CASING END SEALS, ANY OTHER APPURTENANCE TO COMPLETE THE WORK AS SPECIFIED ON THE PLANS, AND TRAFFIC CONTROL. IF CASING PIPE HAS CARRIER PIPE, THE CARRIER PIPE SHALL BE PAID AT THE OPEN CUT ITEM.

MANHOLE ADJUSTMENT INCLUDES ALL MATERIALS, LABOR, AND EQUIPMENT FOR INCREASEING OR DECREASING HEIGHT OF

MANHOLE TO FINISHED ROAD GRADE, INCLUDING BUT NOT LIMITED TO ADDITION OR REMOVAL OF BARREL SECTIONS OR FRAME RINGS AND ADJUSTMENTS TO FRAME AND COVER.

RETIRE IN PLACE MANHOLE

INCLUDES ALL LABOR, EQUIPMENT, DISPOSAL OF WASTE MATERIAL, DRILLING HOLES IN BASE FOR PROPER DRAINAGE, REMIOVAL OF NECESSARY BARRAL SECTIONS FOR PROPER GRADE AND STONE

INCLUDES ALL MATERIALS, LABOR, EQUIPMENT, FOR COMPLETE REHABILITATION OF MANHOLE BUT NOT LIMITED TO STRUCTURAL REPAIR, SEALING/COATING OF INTERIOR, AND TESTING.

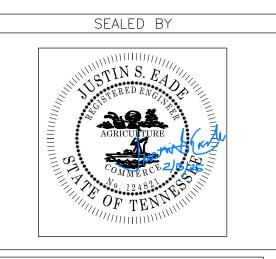
CASING PIPE - OPEN CUT INSTALLATION

INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT INCLUDING BUT NOT LIMITED TO CASING PIPE, PIPE SPACERS, CASING END SEALS, STONE BACKFILL, TEMPORARY PAVEMENT, AND ANY OTHER APPURTENANCE TO COMPLETE THE WORK AS SPECIFIED ON THE PLANS, AND TRAFFIC CONTROL IF CASING PIPE HAS CARRIER PIPE, THE CARRIER PIPE SHALL BE PAID AT THE OPEN CUT ITEM.

SHEET PROJECT NO. PS&E 18004-3227-04 2025 U5-2 124053.00

REV 08-07-23: SHEET CHANGES AS PER TDOT

REV 01-17-24: SHEET CHANGES AS PER TDOT



HUSSEY GAY BELL ——— Established 1958 -

4117 HILLSBORO PIKE, SUITE 206, NASHVILLE, TENNESSEE 37215 / 615.460.751

THE CITY OF CROSSVILLE, TENNESSEE



LEGEND AND GENERAL NOTES

SCALE: NTS

RIGHT-OF-WAY

UTILITY

- (1) IT IS INTENDED THAT ALL BUILDINGS AND/OR PORTIONS OF BUILDINGS THAT ARE WITHIN THE PROPOSED RIGHT-OF-WAY AND/OR EASEMENT LINES FOR THE PROJECT BE REMOVED THERE FROM IN THE PROCESS OF RIGHT-OF-WAY ACQUISITION. IF ANY SUCH BUILDINGS OR IMPROVEMENTS ARE NOT REMOVED IN THE COURSE OF RIGHT-OF-WAY ACQUISITION, THE CIVIL ENGINEERING MANAGER 2, ROADWAY DESIGN DIVISION IS TO BE NOTIFIED IN SUFFICIENT TIME TO PERMIT HAVING SUCH REMOVALS DESIGNATED AS A PART OF THE CONSTRUCTION CONTRACT.
- (2) ALL RAMPS MUST CONFORM TO THE DEPARTMENT'S "POLICY ON FINANCING CONSTRUCTION OF PUBLIC ROAD INTERSECTIONS AND DRIVEWAYS ON HIGHWAY RESURFACING, RECONSTRUCTION AND CONSTRUCTION PROJECTS ON NEW LOCATIONS", THE MANUAL ON RULES AND REGULATIONS FOR CONSTRUCTING DRIVEWAYS ON STATE HIGHWAY RIGHT-OF-WAY, STANDARD DRAWING RP-R-1, AND OTHER ACCEPTED DESIGN AND SAFETY STANDARDS.
- (3) EXISTING PAVED DRIVEWAY PER TRACT REMAINDER WILL BE REPLACED IN KIND TO A TOUCHDOWN POINT.
- (4) WHERE THE EXISTING DRIVEWAY IS UNPAVED AND THE PROPOSED DRIVEWAY EXCEEDS 7 PERCENT IN GRADE, EACH DRIVEWAY WILL BE PAVED TO A TOUCHDOWN POINT OR UNTIL THE GRADE IS LESS THAN 7 PERCENT.
- (5) WHERE THE EXISTING DRIVEWAY IS UNPAVED AND THE PROPOSED DRIVEWAY IS LESS THAN 7 PERCENT IN GRADE, EACH DRIVEWAY WILL BE PAVED A SHOULDER WIDTH FROM THE EDGE OF PAVEMENT AND THE REMAINDER OF THAT DRIVEWAY REPLACED IN KIND TO A TOUCHDOWN POINT.
- (6) ANY NECESSARY PAVING OF DRIVEWAYS WILL BE DONE DURING PAVING OPERATIONS ON THE MAIN ROADWAY.
- (7) NEW DRIVEWAYS PROVIDED IN THE PLANS WILL BE PAVED BASED ON THE 7 PERCENT CRITERIA. THOSE 7 PERCENT OR STEEPER IN GRADE WILL BE PAVED AND THOSE FLATTER THAN 7 PERCENT WILL BE COVERED WITH BASE STONE.
- (8) ON PROJECTS WITHOUT CURB AND GUTTER THAT ARE ON STATE ROUTES, IT WILL BE THE RESPONSIBILITY OF THE OWNER TO SECURE A PERMIT AND TO CONSTRUCT ADDITIONAL DRIVEWAYS AND FIELD ENTRANCES OTHER THAN THOSE PROVIDED IN THE PLANS.

APPROXIMATE ONLY. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES. ABOVE GRADE AND UNDERGROUND UTILITIES SHOWN WERE TAKEN FROM VISIBLE APPURTENANCES AT THE SITE, PUBLIC RECORDS, AND/OR MAPS PREPARED BY OTHERS. THEREFORE, RELIANCE UPON THE TYPE, SIZE, AND LOCATION OF UTILITIES SHOWN SHOULD BE

VERIFICATION OF EXISTENCE, LOCATION, AND DEPTH SHOULD ALSO BE MADE PRIOR TO ANY DECISION RELATIVE THERETO IS MADE. AVAILABILITY AND COST OF SERVICE SHOULD BE CONFIRMED WITH THE APPROPRIATE

UNDERGROUND UTILITY DAMAGE PREVENTION ACT", THAT ANYONE WHO ENGAGES IN EXCAVATION MUST NOTIFY ALL KNOWN UNDERGROUND UTILITY OWNERS, NO LESS THAN THREE (3) OR NOT MORE THAN TEN (10) WORKING DAYS PRIOR TO THE DATE OF THEIR INTENT TO EXCAVATE AND

ALSO TO AVOID ANY POSSIBLE HAZARD OR CONFLICT. NOTIFICATION BY CALLING THE TENNESSEE ONE CALL SYSTEM, INC., AT 1-800-351-1111 AS

UTILITY COMPANY, IN TENNESSEE, IT IS A REQUIREMENT, PER "THE

THE LOCATIONS OF UTILITIES SHOWN WITHIN THESE PLANS ARE

DONE SO WITH THIS CIRCUMSTANCE CONSIDERED. DETAILED

REQUIRED BY TCA 65-31-106 WILL BE REQUIRED.

- (2) UNLESS OTHERWISE NOTED, ALL UTILITY ADJUSTMENTS WILL BE PERFORMED BY THE UTILITY OR ITS 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.
- 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 ARCUND THE UTILITY IN ACCORDANCE WITH TCA 65-31-106 NOTIFICATION BY CALLING THE TENNESSEE ONE CALL SYSTEM, INC AT 1-800-351-1111 WILL BE REQUIRED.

UTILITY OWNERS

CABLE:

CHARTER COMMUNICATIONS

38 WEST BROAD STREET
COOKEVILLE, TN 38501
CONTACT: MR. LESTER HAFFNER

OFFICE PHONE: 931 675 0406

FAX: 931 644 5705

Email: Leslie.haffner@charter.com

ELECTRIC:

VOLUNTEER ENERGY COOPERATIVE

P.O. BOX 277

DECATUR, TN 37322

CONTACT: MR. MATTHEW TEAGUE

OFFICE PHONE: 423 334 7040

FAX 423 334 7005

GAS:

P.O. BOX 670

MIDDLE TENNESSEE NATURAL GAS

SMITHVILLE, TN 37166

CONTACT: MR. MATTHEW WHITAKER

OFFICE PHONE: 615 597 0513

FAX 615 597 6331

TELEPHONE:

FRONTIER/CITIZENS COMMUNICATIONS COMPANY

174 SPARTA HIGHWAY
CROSSVILLE, TN 38572
CONTACT: MR. JIM HEATHERLY
OFFICE PHONE: 865 947 8200

CABLE:

FIBER OPTICS: VOLFIRST

P.O. BOX 670

MCMINNVILLE, TN 37111

CONTACT: MR. RICHARD BOYD

OFFICE PHONE: 931 668 6692

FAX 931 668 7653

Email: Rboyd@blomed.net

WATER:

CITY OF CROSSVILLE

392 NORTH MAIN STREET
CROSSVILLE, TN 38555-4232
CONTACT: MR. TIM BEGLEY
OFFICE PHONE: 931 456 5680
FAX: 931 484 7713

TYPE	YEAR	PROJECT NO.	NO.
PS&E	2025	18004-3227-04	U5-3
		PIN	
		124053.00	

CLIEET

REV 08-07-23: SHEET CHANGES AS PER TDOT REQUEST

REV 01-17-24: SHEET CHANGES AS PER TDOT

DISTURBED AREA								
IN BETWEEN SLOPE LINES	2.009	(AC)						
15 FOOT WIDE STRIP (OUTSIDE SLOPE LINES)	0.949	(AC)						
TOTAL DISTURBED AREA	2.957	(AC)						
TOTAL PROJECT AREA	3.306	(AC)						

R.O.W. ACQUISITION TABLE AREA TO BE ACQUIRED AREA REMAINING COUNTY RECORDS EASEMENT (ACRES) TOTAL AREA (ACRES) (ACRES) (ACRES) TRACT PROPERTY OWNERS NO. PARCEL DEED DOCUMENT REFERENCE CONSTRUCTION TAX MAP LEFT RIGHT | TOTAL LEFT RIGHT | TOTAL RIGHT PERMANENT SLOPE AIR RIGHTS LEFT NO. NO. BOOK PAGE 1493 692 1.010 1.010 1.010 FRED STOUT 871 005.00 006.00 1493 692 1.040 1.040 1.040 FRED STOUT JAMES JOSEPH MITCHELL 057.00 285 788 115.910 115.910 115.910 087I A 33.260 33.260 33.260 0.290 TONY PAGE AND KARI PAGE, HUSBAND AND WIFE 015.00 1603 830 4.300 VONDA M NEWBY AND HUSBAND CHARLES R NEWBY 053.00 1327 678 4.300 4.300 SHARON A SHELLEY AND ROBIN L JONES 054.00 1236 1981 3.330 3.330 0.136 0.136 3.194 67.030 67.030 0.349CUMBERLAND COUNTY 59.00 1262 1312 0.34966.681 2.070 JOHN E. BARNWELL AND TINA L. BARNWELL, HUSBAND AND WIFE 1321 2.070 0.1510.1511.919 055.00 1669 087 2.020 2.020 2864 S.F. 2864 S.F DOROTHY L. LILLY 056.00 1976 1.954 1300 ACQUISITION TOTALS (ACRES) 0.702 0.290

(1) ESMT. NEEDED FOR HAUL ROAD.



HUSSEY GAY BELL

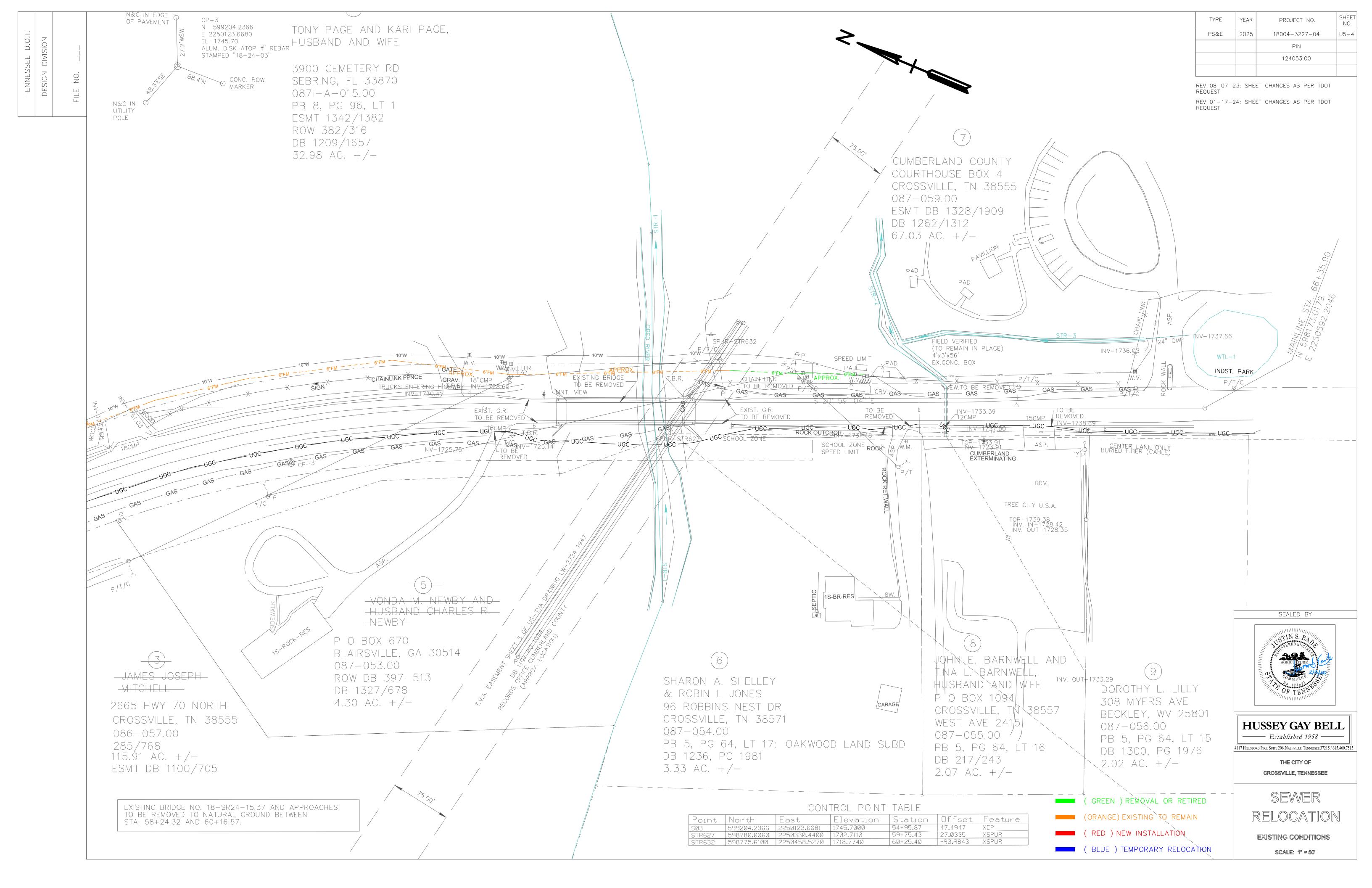
—— Established 1958 ——

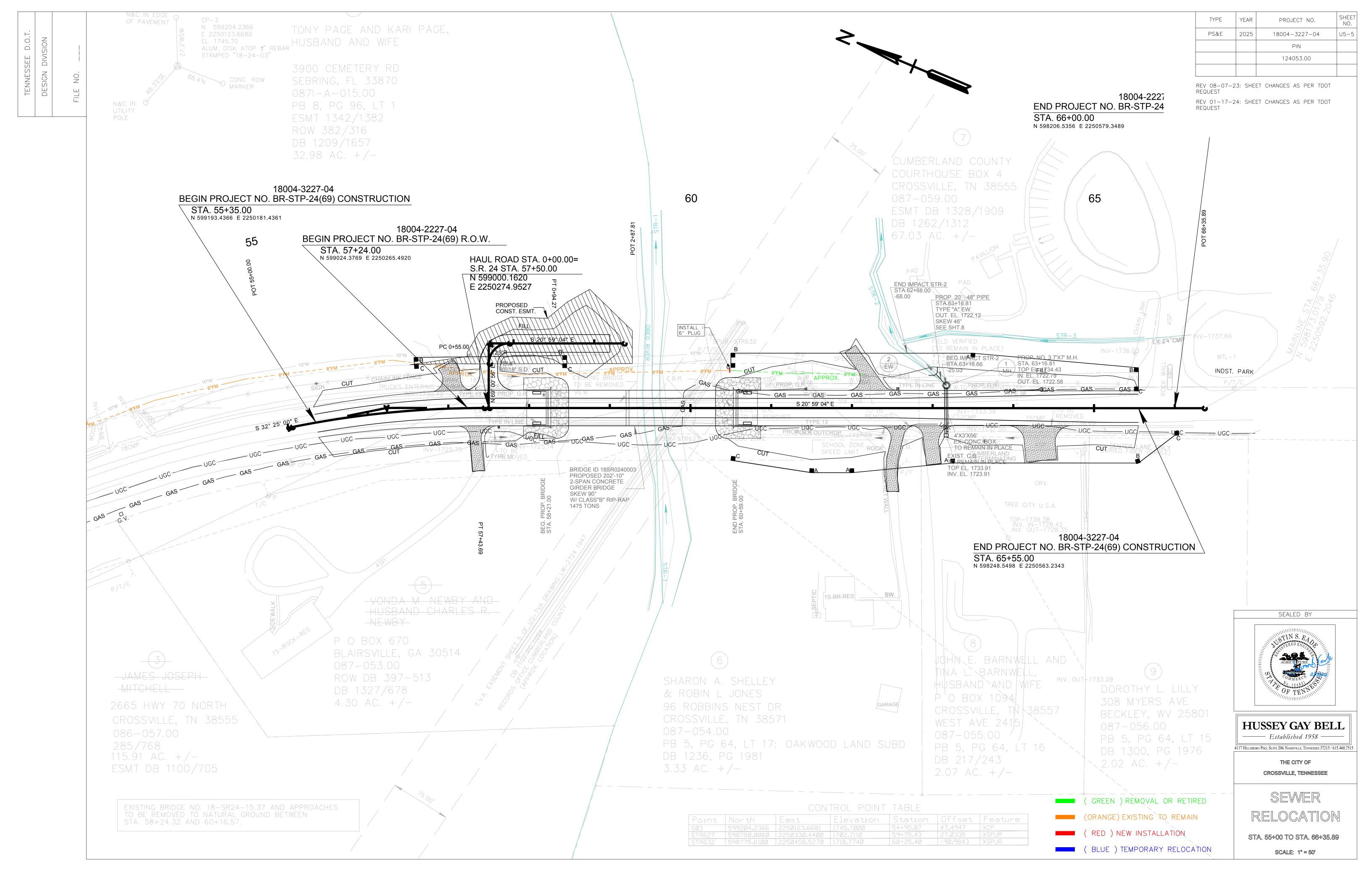
4117 HILLSBORO PIKE, SUITE 206, NASHVILLE, TENNESSEE 37215 / 615.460.75

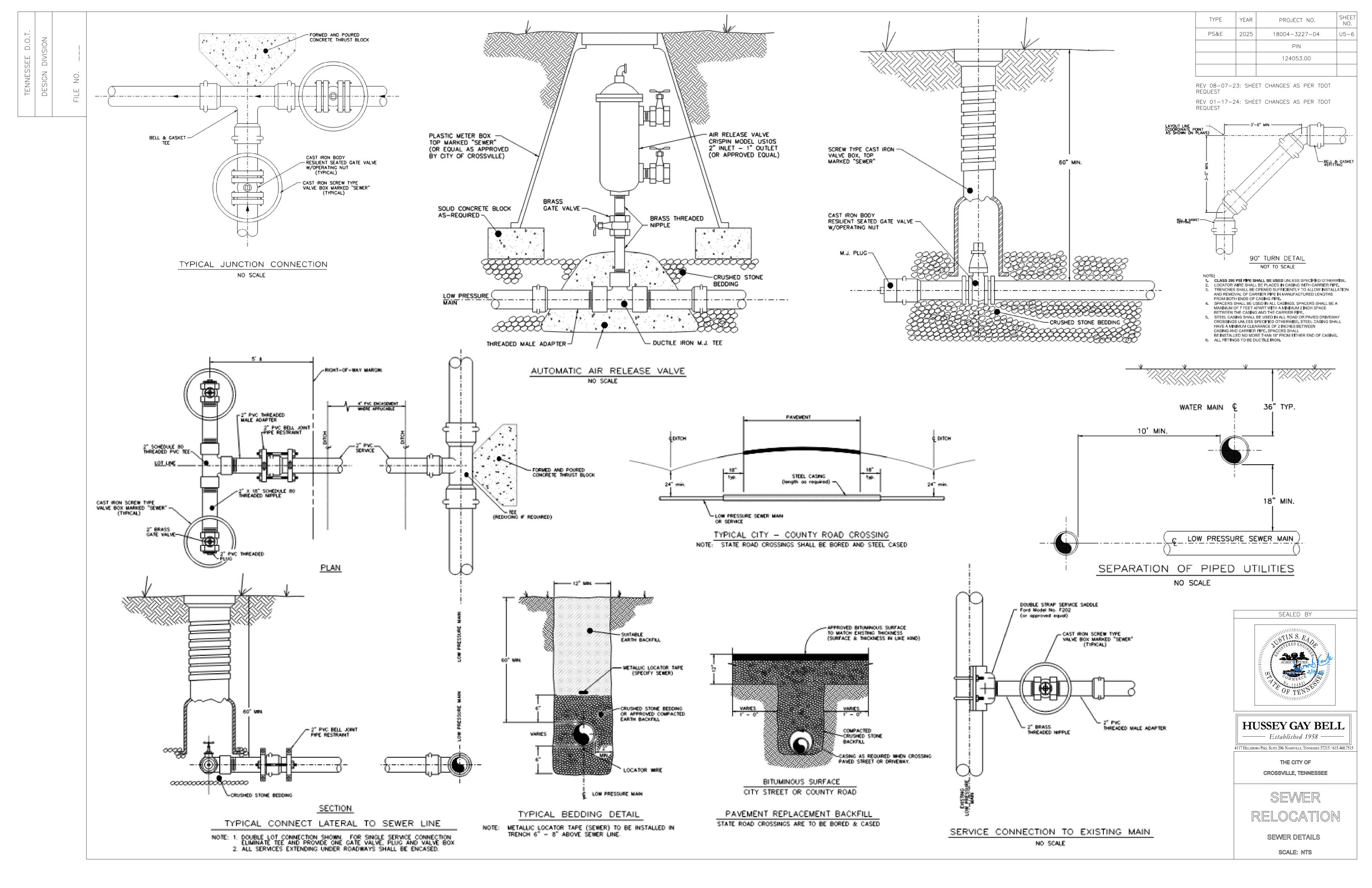
THE CITY OF CROSSVILLE, TENNESSEE



R.O.W. AND UTILITY NOTES, UTILITY OWNERS, & R.O.W. AQUISITION SCALE: NTS







<u>Utility Relocation Notes for Utility Relocations Within TDOT Contracts</u>

- Rain water which collects in the utility trench shall be pumped into a temporary dewatering structure or filter bag.
- 2. Silt fence to be installed on the downstream side of all stockpiled soil. Trenching across wet weather conveyances to be done during no flow conditions and stabilized by the end of the work day.
- 3. Utility crossings for perennial streams shall be constructed in accordance with TDOT Standards, and no work shall be conducted in flowing waters. Tennessee Department of Environment and Conservation (TDEC) Regulations apply to the Utilities in this project in regard to Erosion Control as well as all Water Quality Permits received. The Utility Contractor shall comply with all requirements of the Water Quality Permits and the Storm Water Pollution Prevention Plan. The Utility Contractor is only responsible for erosion control measures for utility construction that is included in the State contract work.
- 4. It is the responsibility of the Utility Contractor to protect from erosion exposed earth resulting from his operations and to provide for containment of sediment that may result from his work. Prior to beginning work, adequate measures must be in place to trap any sediment that may travel off-site in the event of rain. During the progression of his work, exposed earth areas shall be stabilized as soon as possible to prevent erosion. At no time shall exposed earth resulting from his operations have unprotected access to flowing off-site and becoming waters of the State.
- 5. For the installation of buried utilities (pipes and cables), trenches shall be backfilled daily as construction proceeds. Backfilled trenches shall be seeded and mulched or sodded daily if possible but no later than 7 days after backfilled. Any temporary spoil pile of excavated earth shall be located within the installed TDOT Right-Of-Way erosion control measures or receive separate erosion control measures from the approved TDOT standard drawings. If trenches are not backfilled overnight, appropriate erosion control measures will be installed by the Utility Contractor until such time the trench is backfilled.
- 6. Trenches formed for the installation of buried utilities may cause storm water runoff to concentrate at the trenchline. If this is anticipated additional erosion control measures (such as check dams, hay bales, EC blankets) shall be installed from the approved TDOT standard drawings.
- 7. For the installation of underground utilities outside of the highway Right-Of-Way, additional temporary erosion prevention and sediment control measures shall be installed prior to clearing (trenching and associated blasting) in those areas necessary to prevent sediment from leaving the construction area. These erosion prevention and sediment control measures shall remain until the backfilled trench is stabilized with final vegetative cover.
- 8. The contractor shall restore all affected wet weather conveyances to the existing topographic conditions (as required by the State Engineer).
- 9. The Utility Contractor will provide appropriate erosion control measure to replace in-place erosion control measures removed to facilitate the installation of utilities. Replacement erosions control measures will be coordinated with the State Engineer before commencing work.

ESTIMATED UTILITY QUANTITIES

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2025	18004-3227-04	U6-3
		BR-STP-24(69)	

<u>02/06/25:</u> UPDATED CONSTRUCTION YEAR AND PROJECT NUMBER

ESTIMATED UTILITY QUANTITIES

TDOT Item No.	Item Description	Qty	%Public	%Private	Footnote
791-01.04	4IN STEEL GAS MAIN	465	100	0	1
791-04.22	HDD 4IN STEEL PIPE - UNCONSOLIDATED	700	100	0	2
791-06.31	CONNECT TO 2IN EX. STL MAIN W/STOPPLE	2	100	0	4
791-06.32	CONNECT TO 4IN EX STL MAIN W/ STOPPLE	2	100	0	4
791-09.04	REGULATOR STATION	1	100	0	4

FOOTNOTE 1:INCLUDES ALL MATERIALS INCLUDING SAND/STONE BEDDING, FLOWABLE FILL, TEMPORARY PAVEMENT IN OR OUT OF ROW, LABOR EQUIPMENT FOR COMPLETE INSTALLATION OF PIPE INCLUDING BUT NOT LIMITED TO TRAFFIC CONTROL, EXCAVATION INCLUDING DIRT/ROCK, BACKFILLING, CREEK CROSSINGS PER SWPPP, COUPLINGS, FITTINGS, PIPE FUSION, APPURTENANCES, MAINTAINING THE TRENCH, PURGE POINT INSTALLATION, TESTING BY UTILITY SPECIFICATIONS TO INCLUDE BUT NOT LIMITED TO AIR, NITROGEN, HYDROSTATIC OR X-RAY, DEW POINTOR DRYING, AND ANY OTHER LABOR OR MATERIAL REQUIRED TO COMPLETE THE WORK AS SPECIFIED IN THE PLANS.

<u>FOOTNOTE 2:</u> INCLUDES ALL MATERIALS, LABOR, EQUIPMENT, AND TRAFFIC CONTROL, INCLUDING BUT NOT LIMITED TO FLUID CONTAINMENT FOR COMPLETE HORIZONTAL DIRECTIONAL DRILLING INSTALLATION OF CASING PIPE OR CARRIER PIPE

FOOTNOTE 4: INCLUDES ALL MATERIALS, LABOR, AND EQUIPMENT NECESSARY FOR CONNECTING TO EXISTING GAS LINE INCLUDING TRAFFIC CONTROL.

UTILITIES INDEX

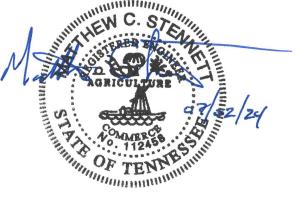
SHEET NAME	SHEET NUMBER
ESTIMATED QUANTITIES & ENVIRONMENTAL NOTES	3
BEGINNING OF PROJECT TO END OF PROJECT	4

Middle Tennessee Natural Gas Main Contact:

Matt Stennett
Vice President - Engineering
931-754-3515
mstennett@mtng.com



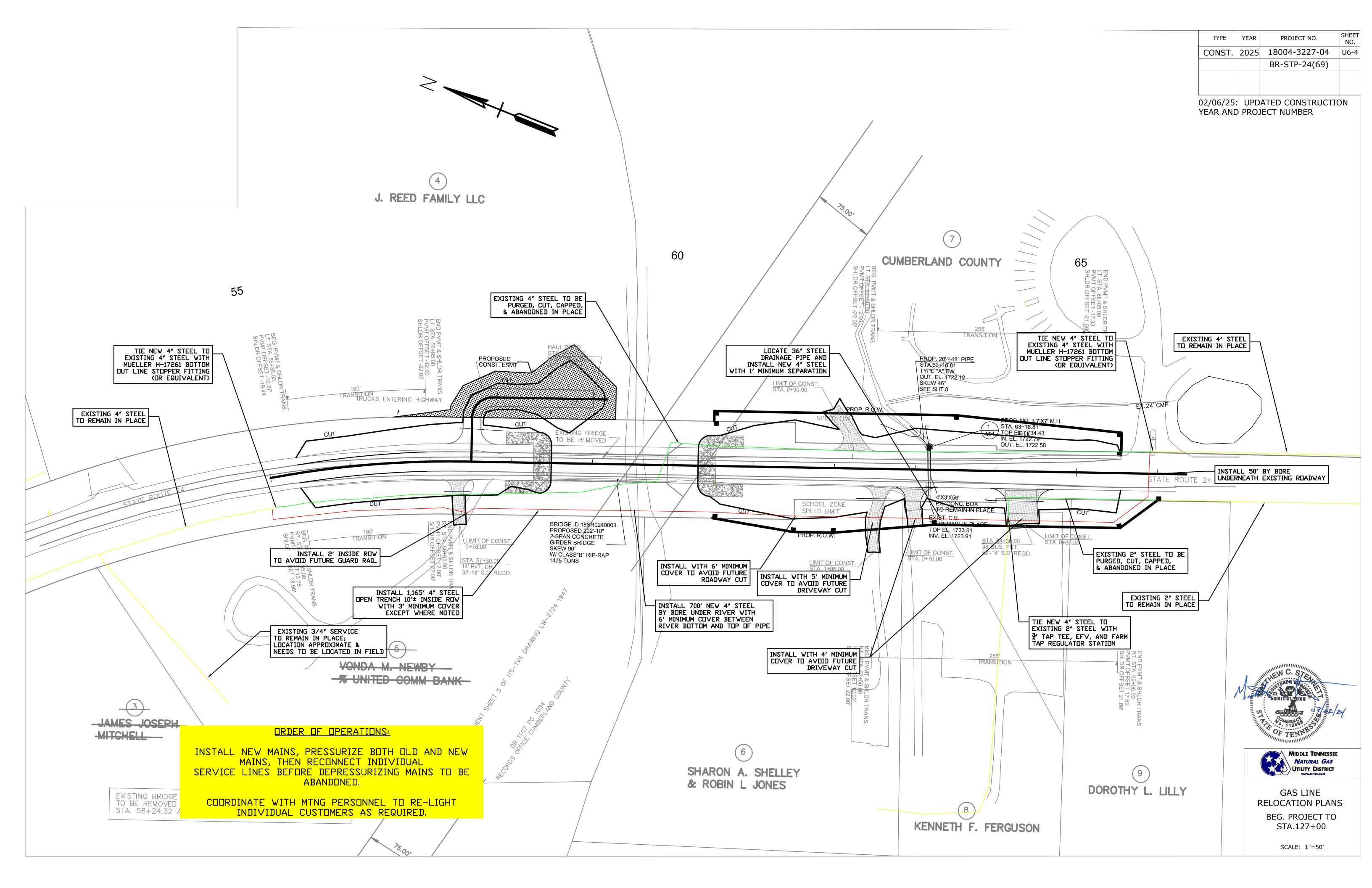
EXISTING GAS PIPE TO REMAIN IN PLACE
EXISTING GAS PIPE TO BE ABANDONED IN PLACE
PROPOSED NEW GAS PIPE
TDOT PROPOSED RCP & BOX CULVERTS





GAS LINE RELOCATION PLANS

ITEM LIST AND ENVIRONMENTAL NOTES



UTILITIES INDEX

SHEET

NO.
ESTIMATED QUANTITIES

REMOVAL QUANTITIES

TDOT PLANS SHEET 4

SHEET

NO.
U8-1

U8-2

U8-3

ESTIMATED UTILITY QUANTITIES

793-07.23 FIBER OPTIC MAINTENANCE LOOP

				% UTILITY	% PROJECT	% PROJECT
ITEM NUMBER	DESCRIPTION	UNIT	QUANTITY	BETTERMENT	PUBLIC	PRIVATE
790-03.01	POLE 40FT CLASS 2 WOOD	EACH	3	0.00%	67.00%	33.00%
790-03.03	POLE 40FT CLASS 4 WOOD	EACH	3	0.00%	67.00%	33.00%
790-06.03	POLE 55FT CLASS 3 WOOD	EACH	1	0.00%	67.00%	33.00%
790-22.13	1Ø DEAD END 25KV	EACH	1	0.00%	67.00%	33.00%
790-22.16	1Ø DDE TANGENT 25KV	EACH	1	0.00%	67.00%	33.00%
790-22.18	1Ø SGL DEAD END XARM 25KV	EACH	1	0.00%	67.00%	33.00%
790-26.02	3Ø CROSSARM DBL LRG COND 25KV	EACH	1	0.00%	67.00%	33.00%
790-26.17	3Ø VERTICAL MED ANGLE 25KV	EACH	1	0.00%	67.00%	33.00%
790-26.25	3Ø CROSSARM DDE 25KV	EACH	1	0.00%	67.00%	33.00%
790-26.26	3Ø CROSSARM DEAD END 25KV	EACH	1	0.00%	67.00%	33.00%
790-26.27	3Ø CROSSARM DBL DDE 25KV	EACH	1	0.00%	67.00%	33.00%
790-26.28	3Ø DBL 10FT XARM DDE 25KV	EACH	1	0.00%	67.00%	33.00%
790-26.29	3Ø DDE UNBALANCED LOAD 25KV	EACH	1	0.00%	67.00%	33.00%
790-26.38	3Ø CROSSARM 10FT LRG COND 25KV	EACH	1	0.00%	67.00%	33.00%
790-30.13	SECONDARY CONDUCTOR 2 AL TRIPLEX	L.F.	109	0.00%	67.00%	33.00%
790-31.02	SERVICE ASSEMBLY-POLE TYPE	EACH	6	0.00%	67.00%	33.00%
790-31.11	SERVICE CONDUCTOR 2 AL TRIPLEX	L.F.	29	0.00%	67.00%	33.00%
790-32.01	DOWN GUY - THROUGH BOLT TYPE	EACH	1	0.00%	67.00%	33.00%
790-32.02	DOWN GUY - THROUGH BOLT TYPE HEAVY DUTY	EACH	1	0.00%	67.00%	33.00%
790-32.06	DOWN GUY - INSULATED	EACH	13	0.00%	67.00%	33.00%
790-32.23	GUY GUARD	EACH	13	0.00%	67.00%	33.00%
790-33.18	ROCK ANCHOR GUY BOLT TYPE	EACH	13	0.00%	67.00%	33.00%
790-40.03	OH COND 1/0 6/1 ACSR RAVEN	L.F.	3,432	0.00%	67.00%	33.00%
790-40.05	OH COND 3/0 6/1 ACSR PIGEON	L.F.	638	0.00%	67.00%	33.00%
790-40.49	OH COND 795 37 AAC ARBUTUS	L.F.	1,914	0.00%	67.00%	33.00%
790-46.02	1Ø TRANSFORMER CONV W/POLE MTD FUSE & LA	EACH	1	0.00%	67.00%	33.00%
790-46.03	1Ø TRANSFORMER CONV W/XARM MTD FUSE & LA	EACH	2	0.00%	67.00%	33.00%
790-52.03	10KVA 1Ø OH XFORMER 7.2KV 120/240	EACH	2	0.00%	67.00%	33.00%
790-52.12	50KVA 1Ø OH XFORMER 7.2KV DUAL VOLTAGE	EACH	1	0.00%	67.00%	33.00%
790-59.06	GOAB SWITCH 25KV	EACH	1	0.00%	67.00%	33.00%
790-69.09	GND-ASSY GND ROD WITH ALUMINUM	EACH	5	0.00%	67.00%	33.00%
790-70.22	STREET LIGHT 70W LED	EACH	1	0.00%	67.00%	33.00%
793-03.03	10M STRAND	L.F.	277	0.00%	67.00%	33.00%
793-04.01	RELASH/DELASH CABLE	L.F.	545	0.00%	67.00%	33.00%
793-04.08	TRANSFER AERIAL CABLE	EACH	1	0.00%	67.00%	33.00%
790-98.01	REMOVE WIRE	LF	6,818	0.00%	67.00%	33.00%
790-98.02	REMOVE POLES	EACH	9	0.00%	67.00%	33.00%
790-98.03	REMOVE FRAMING/ASSOCIATED APPARATUS	EACH	56	0.00%	67.00%	33.00%
793-04.08	REMOVE AERIAL CABLE AND WIRE	LF	268	0.00%	67.00%	33.00%

EACH

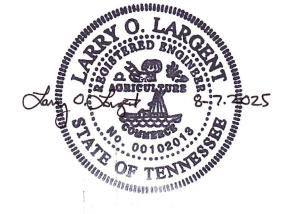
0.00%

67.00%

33.00%

	TYPE	YEAR	PROJECT NO.	SHEET NO.
	PS&E	2025	18004-3227-04	U8-1
ſ			PIN	
ſ			124053.00	
I				

REVISED 8/7/2025 ADDED FIBER INFORMATION







ELECTRIC RELOCATION

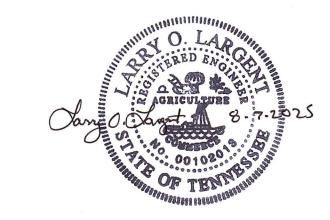
ESTIMATED QUANTITIES

VOLUNTEER ENERGY COOPERATIVE 18359 HIGHWAY 58 N. DECATUR, TN 37322 MATTHEW TEAGUE

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2025	18004-3227-04	U8-2
		PIN	
		124053.00	

ESTIMATED REMOVAL QUANTITIES

ITEM NUMBEI	R DESCRIPTION	UNIT	QUANTITY	ITEM NUMBER	DESCRIPTION	UNIT	QUANTITY	ITEM NUMBER	DESCRIPTION	UNIT	QUANTITY
790-98.01	REMOVE WIRE			790-98.03	REMOVE FRAMING/ASSOCIATED APPARATUS			790-98.03 R	EMOVE FRAMING/ASSOCIATED APPARATUS		
	1/0ACSR	LF	2,372		240V1.5KVA	EACH	1		E1-5G	EACH	1
	2AT-W	LF	100		240V25KVA	EACH	2		E3-10	EACH	5
	3/0ACSR	LF	638		240V50KVA	EACH	1		F5-3	EACH	5
	336AAC	LF	2,709		2AT	EACH	1		G105B	EACH	1
	4ACSR	LF	886		6DUP	EACH	1		G106A	EACH	2
	6DUP-W	LF	91		A3	EACH	1		K11	EACH	2
	K2AT-W	LF	22		A5-2	EACH	1		K11-2	EACH	1
790-98.02					BR-6	EACH	1		K11LESS	EACH	1
	REMOVE POLES				BR-8	EACH	1		K11N	EACH	2
	30-2	EACH	1		BSL-10H70	EACH	1		K2AT	EACH	1
	30-7	EACH	1		BSL-4A	EACH	1		M2-11A	EACH	4
	35-6	EACH	1		C1-2	EACH	2		M26-5	EACH	1
	40-2	EACH	2		C2-2	EACH	1		M5-6	EACH	3
	40-5	EACH	2		C7-2	EACH	1		VA5	EACH	1
	45-3	EACH	2		C7LESS	EACH	1		VC1-1	EACH	1
					C8-2	EACH	1		VC2	EACH	1
					E1-5	EACH	5		VM3-3M	EACH	1



VOLUNTEER ENERGY COOPERATIVE 18359 HIGHWAY 58 N. DECATUR, TN 37322 MATTHEW TEAGUE

423-334-7040 MTEAGUE@VEC.ORG



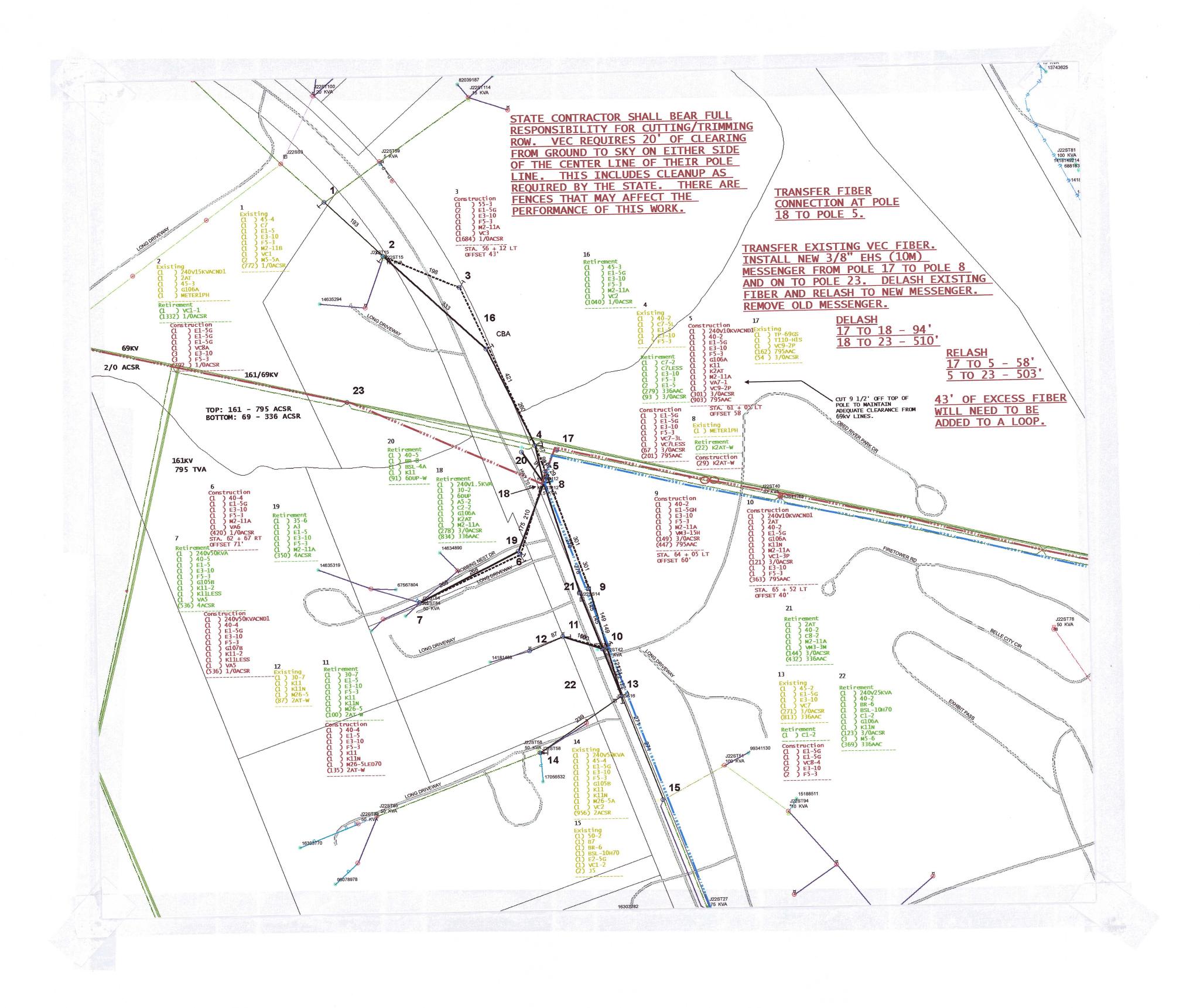
VOLUNTEER
ENERGY COOPERATIVE

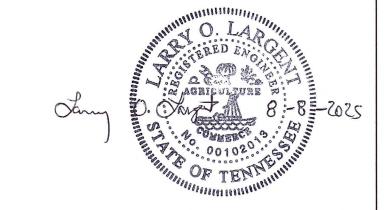
ELECTRIC
RELOCATION

REMOVAL QUANTITIES

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2025	18004-3227-04	U8-3
		PIN	
		124053.00	

REVISED 8/7/2025 ADDED FIBER INFORMATION





VOLUNTEER ENERGY COOPERATIVE

> ELECTRIC RELOCATION

VOLUNTEER ENERGY COOPERATIVE 18359 HIGHWAY 58 N. DECATUR, TN 37322 MATTHEW TEAGUE

423-334-7040 MTEAGUE@VEC.ORG

