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Davis, Matthew (Nashville)

Digitally signed by Davis, Matthew (Nashville)
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STANTEC CONSULTING SERVICES INC.
601 GRASSMERE PARK ROAD SUITE 22
NASHVILLE, TN 37211

MATTHEW JARED DAVIS, P.E. NO. 120740

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE OF TENN. CODE ANN. §62-2-306.

SHEET NAME	SHEET NO.
SIGNATURE SHEET	ITS-SIGN1
TITLE SHEET	1
ROADWAY INDEX AND STANDARD ROADWAY DRAWINGS	1A
ESTIMATED ROADWAY QUANTITIES	2
ESTIMATED ROADWAY QUANTITIES BY SHEET	2A-2A1
GENERAL NOTES, SPECIAL NOTES, AND ENVIRONMENTAL NOTES	2B-2B1
ITS SCOPE OF WORK AND ELECTRICAL SERVICE NOTES	2B2
ITS PLANS LEGEND AND ABBREVIATIONS	2C
FIELD EQUIPMENT OVERVIEW	2D
CCTV, RDS, AND ESS MOUNTING TABLES	2E-2E1
TYPICAL CCTV, RDS, AND ESS DETAILS	2F
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STAND ALONE RDS DETAILS	2F2
TYPICAL TYPE B FIELD CABINET & MAINTENANCE WORK PAD DETAILS	2F3-2F4
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GUARDRAIL TABULATIONS	2H
COMMUNICATIONS ARCHITECTURE DIAGRAM	2J
COMMUNICATIONS SCHEMATIC LAYOUT	2J1
NETWORK SWITCH LOCATIONS	2J2
COMMUNICATION EQUIPMENT BLOCK DIAGRAMS	2J3
FIBER OPTIC SPLICING AND TERMINATION DETAILS	2J4-2J6
ITS COMMUNICATIONS HUB BUILDING DETAILS	2K-2K2
PULL BOX DETAILS	2M-2M1
TYPICAL CABLE MANAGEMENT DETAILS	2M2
TYPICAL CONDUIT AND TRENCHING DETAILS	2M3-2M5
TYPICAL CABLE MARKER DETAILS	2M6
TYPICAL DETAILS FOR EROSION PREVENTION AND SEDIMENT CONTROL	2M7
UTILITY OWNERS AND NOTES	3
SHEET KEY AND ITS LAYOUT	4
ITS LAYOUTS	5-40
TRAFFIC CONTROL PLANS AND NOTES	T-1—T-7



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Johnson, Brian

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STANTEC CONSULTING SERVICES INC.
1200 BRICKYARD LANE SUITE 400
BATON ROUGE, LA 70802

JOSEPH BRIAN JOHNSON, P.E. NO. 120780

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE OF TENN. CODE ANN. §62-2-306.

SHEET NAME	SHEET NO.
SIGNATURE SHEET	ITS-SIGN1
CAMERA POLE FOUNDATION DETAILS	2F5
STRUCTURAL GENERAL NOTES	2G
DYNAMIC MESSAGE SIGN CROSS-SECTIONS	2G1-2G3
DYNAMIC MESSAGE SIGN SITE LAYOUT	2G4
DMS SUPPORT SIGN TRUSS LAYOUT	2G6
DMS SUPPORT TRUSS CONNECTION DETAILS	2G7
DMS SUPPORT TRUSS WALKWAY DETAILS	2G8
DMS SUPPORT TRUSS FOUNDATION DETAILS	2G9



THIS DOCUMENT HAS BEGEN DIGITALLY SIGNED AND SEALED BY:

Goudeau, Derrick

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STANTEC CONSULTING SERVICES INC.
229 PEACHTREE STREET NE, SUITE 1900
ATLANTA, GA 30303

DERRICK GOUDEAU, P.E. NO. 121614

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE OF TENN. CODE ANN. §62-2-306.

SHEET NAME	SHEET NO.
SIGNATURE SHEET	ITS-SIGN1
ITS COMMUNICATIONS HUB BUILDING DETAILS	2K3-2K5
ELECTRICAL DEMARCATION SITE DETAILS	2L-2L1
ELECTRICAL DEMARCATION TABLE	2L2
POWER SERVICE DETAILS	2L3-2L9

YEAR	PROJECT NO.	SHEET NO.
2025	R-NH-385(33)	ITS-SIGN1

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNATURE SHEET

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McDonald, Michael Digitally signed by McDonald, Michael
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STANTEC CONSULTING SERVICES INC.
601 GRASSMERE PARK ROAD SUITE 22
NASHVILLE, TN 37211

MICHAEL B. MCDONALD, P.E. NO. 120355

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE OF TENN. CODE ANN. §62-2-306.

SHEET NAME	SHEET NO.
SIGNATURE SHEET	ITS-SIGN2
GEOTECHNICAL BORING LAYOUTS	G1-G36

YEAR	PROJECT NO.	SHEET NO.
2025	R-NH-385(33)	ITS-SIGN2

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNATURE SHEET

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING

TENN.	YEAR	SHEET NO.
	2025	1
FED. AID PROJECT NO.	R-NH-385(33)	
STATE PROJECT NO.	79185-3232-14	

DOES THIS PROJECT QUALIFY FOR UTILITY CHAPTER 86	YES	NO X
WORK ZONE SIGNIFICANCE DETERMINATION		
SIGNIFICANT	YES X	NO

Index Of Sheets

SEE SHEET NO. 1A

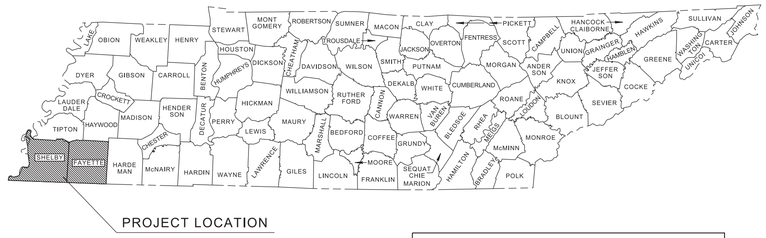
SHELBY / FAYETTE COUNTIES

SR-385 ITS EXPANSION

FROM NEAR MM 7 TO NEAR I-269 (MM 15) (IA)

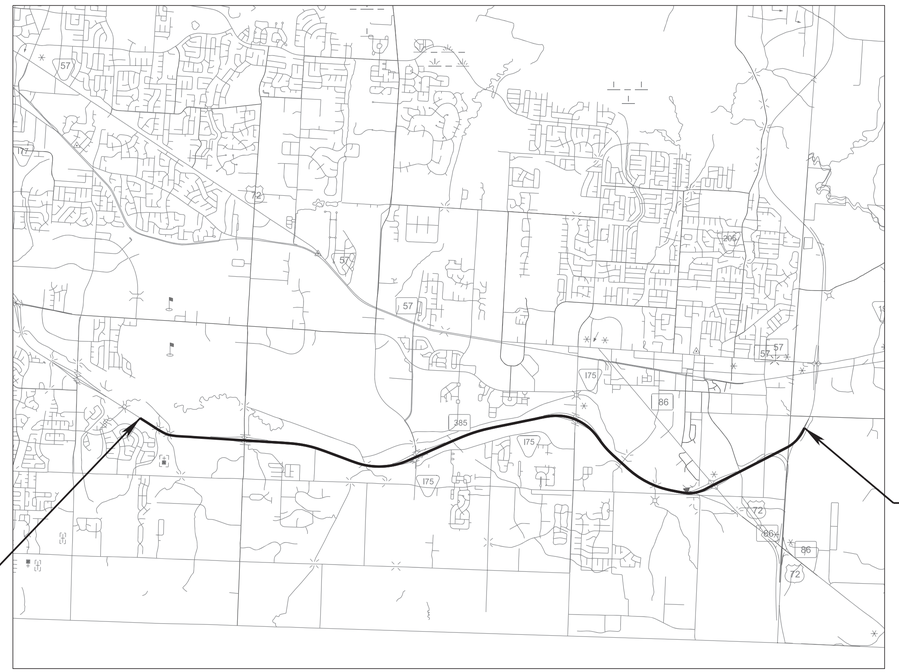
CONSTRUCTION

STATE HIGHWAY NO. 385 F.A.H.S. NO. N/A



NO EXCLUSIONS

THIS PROJECT DOES NOT REQUIRE ANY R.O.W. ACQUISITION OR EASEMENTS



N

79185-3232-14
BEGIN PROJECT NO. R-NH-385(33) CONST.

SR-385 STA. 100+00 LOG MILE 6.9

N 275911.4200 E 836129.5100

79185-3232-14
END PROJECT NO. R-NH-385(33) CONST.

SR-385 STA. 568+00 LOG MILE 15.8

N 275051.6400 E 878852.6100

SCALE: 0 1 mi 2 mi 3 mi — 1 mile = 5280'

SEALED BY

MATTHEW J. DAVIS
REGISTERED ENGINEER
AGRICULTURE
STATE OF TENNESSEE
7/14/2025

APPROVED:

WILL REID, CHIEF ENGINEER

DATE:

APPROVED:

WILL REID, COMMISSIONER

SPECIAL NOTES

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

THIS PROJECT TO BE CONSTRUCTED UNDER THE STANDARD SPECIFICATIONS OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION DATED JANUARY 1, 2021 AND ADDITIONAL SPECIFICATIONS AND SPECIAL PROVISIONS CONTAINED IN THE PLANS AND IN THE PROPOSAL CONTRACT.

ROADWAY LENGTH	0.000 MILES
BRIDGE LENGTH	0.000 MILES
FAYETTE COUNTY	0.246 MILES
SHELBY COUNTY	8.617 MILES
PROJECT LENGTH	8.863 MILES

JULY 9, 2025

TRAFFIC DATA	
AADT (2025)	60,860
V	65 MPH

TDOT C.E. MANAGER 1 : CAM MORRIS, P.E.

DESIGNED BY : STANTEC CONSULTING SERVICES INC.

DESIGNER : MATTHEW DAVIS, P.E., PTOE CHECKED BY CALLIE CASTRO, P.E., PTOE, IMSA-II

P.E. NO. 79185-1232-14

PIN NO. 124759.00

STATE PLANE COORDINATES ARE BASED ON GPS MEASUREMENTS
USING EPSG: 2274 NAD83 / TENNESSEE (FTUS)
ADJUSTMENT FACTOR OF 1.00

ROADWAY INDEX

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ESTIMATED ROADWAY QUANTITIES BY SHEET	2A-2A1
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TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	N/A
PS&E	2025	R-NH-385(33)	1A

STANDARD ROADWAY AND TRAFFIC OPERATIONS DRAWINGS

DWG. NO. REVISION DATE DESCRIPTION

STANDARD ROADWAY DRAWINGS

STANDARD ROADWAY TITLE SHEET, ABBREVIATIONS AND LEGENDS

RD-A-1	02-20-20	STANDARD ABBREVIATIONS A THROUGH L
RD-A-2		STANDARD ABBREVIATIONS M THROUGH Z
RD-L-1	02-20-20	STANDARD LEGEND
RD-L-2	02-20-20	STANDARD LEGEND FOR UTILITY INSTALLATIONS
RD-L-3	03-01-23	STANDARD LEGEND FOR SIGNALIZATION AND LIGHTING
RD-L-4	10-01-24	STANDARD LEGEND FOR SIGNALIZATION AND LIGHTING
RD-L-5	07-30-24	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
RD-L-6	02-20-20	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
RD-L-7	02-20-20	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL

ROADWAY DESIGN STANDARDS

RD11-S-11		DESIGN AND CONSTRUCTION DETAILS FOR ROADSIDE SLOPE DEVELOPMENT
RD11-S-11A		ROADSIDE DITCH DETAILS FOR DESIGN AND CONSTRUCTION

ROADWAY, PAVEMENT APPURTENANCES, AND FENCES

S-F-1	03-01-23	HIGH VISIBILTY FENCE

SAFETY DESIGN AND GUARDRAILS

S-CZ-1	06-28-19	CLEAR ZONE CRITERIA
S-GR31-1	03-13-25	GUARDRAIL DETAILS
S-GR31-1A	06-28-19	GUARDRAIL AND BLOCK-OUT DETAILS
S-GR31-1B		GUARDRAIL FASTENING HARDWARE
S-GR31-1C	07-07-23	GUARDRAIL GENERAL NOTES AND POST DETAILS
S-GRA-3	01-09-24	TYPE 13 GUARDRAIL ANCHOR
S-GRA-4	03-01-23	IN-LINE GUARDRAIL ANCHOR TO PRIVATE DRIVE
S-GRT-2	06-28-19	TYPE 38 GUARDRAIL END TERMINAL
S-GRT-2P	10-16-20	EARTH PAD FOR TYPE 38 AND TYPE 21 TERMINAL
S-PL-1	03-01-23	SAFETY PLAN FOR BARRIER LENGTH OF NEED
S-PL-1A	03-01-23	SAFETY PLAN FOR BARRIER LENGTH OF NEED (FOR RIGID OBJECTS)
S-PL-6	07-30-24	SAFETY PLAN SAFETY HARDWARE PLACEMENT ON OUTSIDE EDGE
S-PL-6A	06-28-19	SAFETY PLAN SAFETY HARDWARE PLACEMENT IN MEDIAN

EROSION PREVENTION AND SEDIMENT CONTROL

EC-STR-19	04-01-08	CATCH BASIN PROTECTION
EC-STR-34	05-04-22	EROSION CONTROL BLANKET FOR SLOPE INSTALLATION
EC-STR-37	06-10-14	SEDIMENT TUBE

DWG. NO. REVISION DATE DESCRIPTION

STANDARD TRAFFIC DESIGN DRAWINGS

DESIGN- TRAFFIC CONTROL

T-WZ-10	03-26-25	ADVANCE ROAD WORK SIGNING ON HIGHWAYS AND FREEWAYS
T-WZ-11	03-26-25	ONE LANE CLOSURE DETAIL FOR DIVIDED HIGHWAYS
T-WZ-15	03-26-25	INTERIOR LANE CLOSURE FOR EXPRESSWAYS AND FREEWAYS
T-WZ-18	03-26-25	SHOULDER CLOSURE DETAIL FOR FREEWAYS AND DIVIDED HIGHWAYS
T-WZ-61	03-26-25	ROLLING ROADBLOCK DETAIL FOR DIVIDED HIGHWAYS
T-WZ-FAB1	03-26-25	FLASHING YELLOW ARROW BOARD
T-WZ-PBR1	03-26-25	INTERCONNECTED PORTABLE BARRIER RAIL
T-WZ-PBR2	03-26-25	DETAILS FOR WORK ZONE CHANNELIZATION DEVICES

SIGNS

T-S-15	07-30-25	STANDARD CONDUIT & GROUND DETAILS FOR OVERHEAD & CANTILEVER SIGN STRUCTURES

SIGNALS

T-SG-10	09-12-23	MAST ARM POLE AND STRAIN POLES FOUNDATION DETAILS

LIGHTING AND UTILITY POLES

T-FO-2		FIBER OPTIC UNDERGROUND ENTRANCE DETAILS
T-FO-4		FIBER OPTIC PULL BOX, CABINET, AND POLE DETAILS
T-L-1	07-15-24	STANDARD LIGHTING FOUNDATION DETAILS
T-L-3	07-15-24	STANDARD LIGHTING DETAILS PULL BOXES
T-L-4	07-15-24	STANDARD LIGHTING DETAILS CONDUIT, CABLE INSTALLATION

STANDARD STRUCTURES DRAWINGS

NEW STRUCTURES

STD-8-4	02-26-25	SIGN, LUMINAIRE, AND TRAFFIC SIGNAL SUPPORTS

SEALED BY



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ROADWAY INDEX AND STANDARD ROADWAY DRAWINGS

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ESTIMATED ROADWAY QUANTITIES

FOOTNOTE	ITEM NO.	DESCRIPTION	UNIT	QUANTITY 79185-3232-14
1	201-01	CLEARING AND GRUBBING	LS	1
2	203-07	FURNISHING & SPREADING TOPSOIL	C.Y.	11
2	209-05	SEDIMENT REMOVAL	C.Y.	110
2	209-09.01	SANDBAGS	BAG	96
2	209-20.03	POLYETHYLENE SHEETING (6 MIL. MINIMUM)	S.Y.	784
3	303-01	MINERAL AGGREGATE, TYPE A BASE, GRADING D	TON	3
	705-04.09	EARTH PAD FOR TYPE 38 GR END TREATMENT	EACH	6
	705-06.01	W BEAM GR (TYPE 2) MASH TL-3	L.F.	1487.5
	705-06.10	GR TERMINALTRAILING END (TYPE 13) MASH TL-3	EACH	7
	705-06.20	TANGENT ENERGY ABSORBING TERM MASH TL-3	EACH	6
	706-01	GUARDRAIL REMOVED	L.F.	10
4	707-08.11	HIGH-VISIBILITY CONSTRUCTION FENCE	L.F.	2375
5	712-01	TRAFFIC CONTROL	LS	1
5,6	712-02.02	INTERCONNECTED PORTABLE BARRIER RAIL	L.F.	2100
5	712-02.60	TEMPORARY WORK ZONE CRASH CUSHION (MASH TL-3)	EACH	7
5	712-04.01	FLEXIBLE DRUMS (CHANNELIZING)	EACH	200
5	712-04.50	BARRIER RAIL DELINEATOR	EACH	42
5	712-05.03	WARNING LIGHTS (TYPE C)	EACH	200
5,7	712-06	SIGNS (CONSTRUCTION)	S.F.	1296
5	712-08.03	ARROW BOARD (TYPE C)	EACH	2
5	712-08.12	QUEUE PROTECTION TRUCK	DAY	6
5	713-16.01	CHANGEABLE MESSAGE SIGN UNIT	EACH	3
	714-08.11	LIGHT STANDARDS (30 FT POLE HEIGHT)	EACH	3
	717-01	MOBILIZATION	LS	1
8	725-20.01	CCTV POLE & FOUNDATION (50FT POLE W/LWRNG DVICE)	EACH	4
8	725-20.02	CCTV POLE & FOUNDATION (80FT POLE W/LWRNG DVICE)	EACH	6
8	725-20.09	MAINTENANCE WORK PAD (CONCRETE PAD)	EACH	5
8	725-20.10	MAINTENANCE WORK PAD (WOOD PLATFORM)	EACH	5
8,9	725-20.22	STEEL OVERHEAD SIGN STRUCTURE (SPANS 51FT TO 70FT)	EACH	3
8,10	725-20.43	PULL BOX (TYPE C)	EACH	58
8,10	725-20.44	PULL BOX (TYPE D)	EACH	66
8,10	725-20.45	PULL BOX (TYPE E)	EACH	14
8	725-20.55	CABLE (1/C #6 AWG.)	L.F.	4770
8	725-20.56	CABLE (1/C #4 AWG.)	L.F.	6180
8	725-20.57	CABLE (1/C #2 AWG.)	L.F.	16215
8	725-20.60	CABLE (1/C #3/0 AWG.)	L.F.	24370
8,11-16	725-20.71	ELECTRICAL CONNECTION	LS	1
8	725-20.91	CCTV CAMERA SYSTEM (PAN TILT & ZOOM)	EACH	16
8	725-21.02	DYNAMIC MESSAGE SIGN (MULTI-COLOR)	EACH	3
8	725-21.11	NETWORK SWITCH (TYPE A)	EACH	13
8	725-21.12	NETWORK SWITCH (TYPE B)	EACH	1
8,12,17	725-21.43	DEMARCATION SITE (OVERHEAD POWER)	EACH	3
8,12,17	725-21.44	DEMARCATION SITE (UNDERGROUND POWER)	EACH	5
8	725-21.71	TRANSFORMER TYPE A (10KVA)	EACH	3
8	725-21.73	TRANSFORMER (1.5KVA)	EACH	5
8	725-21.85	UNINTERRUPTIBLE POWER SUPPLY	EACH	13
8	725-21.87	ENVIRONMENTAL SENSOR COMM CABLE	L.F.	200
8	725-21.91	RADAR DETECTION SYSTEM	EACH	7
8	725-21.96	RDS COMM CABLE	L.F.	865
8	725-22.13	ENVIRONMENTAL SENSOR (PVMT TEMP & PRECIP)	EACH	4
8,18	725-22.22	CONDUIT BANK (TYPE 2)	L.F.	495
8,18	725-22.24	CONDUIT BANK (TYPE 4)	L.F.	32285
8,18	725-22.32	CONDUIT BANK BORED (TYPE 2)	L.F.	1525
8,18	725-22.34	CONDUIT BANK BORED (TYPE 4)	L.F.	12360
8,18	725-22.50	DMS CONDUIT BANK	L.F.	225
8,18	725-22.71	2IN CONDUIT	L.F.	2055
8,18	725-22.72	2IN CONDUIT BORED	L.F.	1295
8,18	725-22.74	2IN CONDUIT W/ BANK	L.F.	5700
8,18	725-22.75	2IN CONDUIT BORED W/ BANK	L.F.	4005
8,18	725-22.78	3IN CONDUIT	L.F.	70
8,18	725-22.80	3IN CONDUIT W/ BANK	L.F.	460

ESTIMATED ROADWAY QUANTITIES

FOOTNOTE	ITEM NO.	DESCRIPTION	UNIT	QUANTITY 79185-3232-14
8,18	725-22.81	3IN CONDUIT BORED W/ BANK	L.F.	970
8	725-23.01	ITS CABLE MARKER	EACH	107
8	725-23.16	FIBER OPTIC CABLE (144 F)	L.F.	49235
8	725-23.21	FIBER OPTIC DROP CABLE (12 F)	L.F.	4700
8	725-23.26	FIBER OPTIC CLOSURE (12 F)	EACH	8
8	725-23.27	FIBER OPTIC CLOSURE (144 F)	EACH	5
8,19	725-23.28	FIBER OPTIC SPLICE FUSION	EACH	678
8	725-23.30	FIBER OPTIC TERMINATION CABINET (144 F)	EACH	1
8	725-23.31	FIBER OPTIC DROP PANEL (12 F)	EACH	14
8	725-24.02	CABINET (TYPE B)	EACH	10
8	725-24.03	CABINET (TYPE C)	EACH	3
8	725-24.11	ITS COMMUNICATIONS HUB (BUILDING)	EACH	1
8	725-24.21	PREVENTIVE MAINTENANCE FOR SYSTEM	LS	1
8	725-24.25	UNSCHEDULED MAINTENANCE LABOR	HOUR	30
8	725-24.31	SPARE PARTS	LS	1
8	725-24.41	BURN-IN PERIOD	LS	1
8	725-24.52	SOFTWARE INTEGRATION	LS	1
8	725-24.54	NETWORK INTEGRATION	LS	1
8	725-24.55	AS-BUILT PLANS	LS	1
8	725-24.62	TRAINING	HOUR	12
2	740-11.02	TEMPORARY SEDIMENT TUBE 12IN	L.F.	480
12	790-03.03	POLE 40FT CLASS 4 WOOD	EACH	1
20	801-01	SEEDING (WITH MULCH)	UNIT	48
20	801-01.36	SPECIAL WETLAND SEED MIXTURE	UNIT	17.5
20	801-02	SEEDING (WITHOUT MULCH)	UNIT	5.5
20	801-03	WATER (SEEDING & SODDING)	M.G.	5.5

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	2
PS&E	2025	R-NH-385(33)	2

FOOTNOTES

(1) ITEM INCLUDES ALL REQUIRED CLEARING, GRUBBING, REMOVAL, AND DISPOSAL OF ALL VEGETATION AND DEBRIS FOR PROPER CONDUIT, POLE, AND DEVICE INSTALLATION AND OPERATION.

(2) SEE SUBSECTION 209.07 OF THE STANDARD SPECIFICATIONS FOR MAINTENANCE REPLACEMENT. SEE TDOT STANDARD FOR EROSION CONTROL NOTES AND STANDARDS. ALL EROSION PREVENTION AND SEDIMENT CONTROL QUANTITIES ARE TO BE USED AS DIRECTED BY THE ENGINEER.

(3) THIS PAY ITEM IS TO BE USED IN CONJUNCTION WITH WORK PAD AS DIRECTED BY PROJECT ENGINEER.

(4) ITEM TO BE PLACED TO DELINEATE ENVIRONMENTALLY SENSITIVE AREAS IN CLOSE PROXIMITY TO AREAS WHERE WORK IS PROPOSED PRIOR TO COMMENCING WORK, AS DIRECTED BY ENGINEER.

(5) ALL REQUIRED TRAFFIC CONTROL DEVICES MUST MEET TDOT AND MUTCD STANDARDS.

(6) ALL COSTS ASSOCIATED WITH INSTALLING, STORING, AND RE-INSTALLING ALL BARRIER RAIL DEVICES DURING AND BETWEEN DIFFERENT TRAFFIC CONTROL PHASES WILL BE INCLUDED IN THE BID PRICE OF THIS ITEM. DURING THE TIME BETWEEN DIFFERENT TRAFFIC CONTROL PHASES, THE CONTRACTOR SHALL STORE ALL BARRIER RAIL DEVICES IN A PROPER LOCATION THAT WILL NOT INTERFERE WITH THE TRAFFIC FLOW AND CLEAR ZONES OF THE ROADWAY. ALL WORK MUST MEET THE FULL APPROVAL OF THE TDOT ENGINEER. THE QUANTITIES SHOWN FOR THIS ITEM ARE ALL THAT WILL BE PAID FOR UNDER THIS LINE ITEM. ANY ADDITIONAL REQUIRED QUANTITIES FOR THIS ITEM WILL BE INCLUDED IN THE CONTRACTOR'S BID UNDER ITEM 712-01 TRAFFIC CONTROL. NO ADJUSTMENTS WILL BE MADE FOR OVERRUNS OF THIS ITEM.

(7) RELOCATION OF SIGNS WILL BE PAID FOR UNDER 712-01.

(8) SEE SPECIAL PROVISIONS 725 FOR DESCRIPTION AND SPECIFICATIONS FOR THESE ITEMS.

(9) ITEM INCLUDES SIGN STRUCTURE, FOUNDATION, CATWALK, AND ALL RELATED INCIDENTAL ITEMS, INCLUDING PAVEMENT REPAIR FOR FOOTING IN MEDIAN.

(10) PAY ITEM SHALL INCLUDE GPS COORDINATE DATA FOR EACH PULL BOX INSTALLATION FOR INCLUSION IN THE AS-BUILT PLANS.

(11) ITEM SHALL BE USED FOR COORDINATION WITH MLGW AND SHALL INCLUDE ALL MATERIAL NEEDED TO PROVIDE POWER TO THE ELECTRICAL DEMARCATION SITE.

(12) CONTRACTOR TO ABIDE WITH ALL TDOT SPECIFICATIONS AND MLGW SPECIFICATIONS.

(13) INCLUDES LABOR AND ALL MISCELLANEOUS MATERIALS TO INSTALL AND HOOKUP CONVENTIONAL TRANSFORMER.

(14) INCLUDES ALL MATERIALS, LABOR, AND EQUIPMENT FOR COMPLETE INSTALLATION INCLUDING, BUT NOT LIMITED TO SETUP, TRAFFIC CONTROL, BEDDING, BACKFILL, SURFACE RESTORATION, DIGGING HOLE, FILLING HOLE, BLASTING, BUTT WRAP OR SINGLE GROUND ROD, MGNV, AND NUMBERING POLE.

(15) THIS PAY ITEM SHALL INCLUDE ALL COSTS INCURRED FROM MLGW. THIS WILL INCLUDE COSTS FROM THE UTILITIES, SUCH AS: OVERHEAD PRIMARY, OVERHEAD SECONDARY, OVERHEAD TRANSFORMER SETTING, AND PADMOUNT TRANSFORMER SETTING. THIS WILL NOT INCLUDE FEES FROM THE STATE ELECTRICAL INSPECTOR.

(16) INCLUDES SAGGING AND TYING IN OF OVERHEAD PRIMARY CONDUCTORS. ALSO INCLUDES LINEGUARDS WITH TIES AND/OR PREFORMED TIES.

(17) ITEM INCLUDES ALL MATERIAL NEEDED FOR SUPPLYING ELECTRICAL SERVICE DEMARCATION POINT FOR ITS EQUIPMENT. ITEMS INCLUDE, BUT ARE NOT LIMITED TO, WOOD POLE (WHERE REQUIRED), UNISTRUT RACK (WHERE REQUIRED), CONDUIT RISER WITH WEATHER HEAD, METER BOX (WHERE REQUIRED), CT/PT ENCLOSURE, UTILITY AND MAIN DISCONNECT, AND LOAD CENTER (WHERE REQUIRED).

(18) ROCK WILL BE CONSIDERED INCIDENTAL TO ALL TRENCHING AND BORING RELATED ITEMS. NO SEPARATE PAY ITEMS OR ROCK ADDED PAY ITEMS WILL BE APPLIED WHERE ROCK IS ENCOUNTERED.

(19) REEL-TO-REEL SPLICES ANTICIPATED AT FIVE LOCATIONS THROUGHOUT THE PROJECT.

(20) ITEM SHALL ONLY BE USED AT LOCATIONS APPROVED BY ENGINEER.

SEALED BY



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ESTIMATED ROADWAY QUANTITIES

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FOOTNOTE	ITEM NO.	DESCRIPTION	UNIT	TOTALS BY SHEET																		SHEET TOTAL
				5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	
1	201-01	CLEARING AND GRUBBING	LS																			
2	203-07	FURNISHING & SPREADING TOPSOIL	C.Y.						1					1				1				3
2	209-05	SEDIMENT REMOVAL	C.Y.						10					10				10				30
2	209-09.01	SANDBAGS	BAG						6					6				6				18
2	209-20.03	POLYETHYLENE SHEETING (6 MIL. MINIMUM)	S.Y.						25					25				25				75
3	303-01	MINERAL AGGREGATE, TYPE A BASE, GRADING D	TON						0.5									0.5				1
	705-04.09	EARTH PAD FOR TYPE 38 GR END TREATMENT	EACH																			
	705-06.01	W BEAM GR (TYPE 2) MASH TL-3	L.F.											162.5								162.5
	705-06.10	GR TERMINALTRAILING END (TYPE 13) MASH TL-3	EACH											1								1
	705-06.20	TANGENT ENERGY ABSORBING TERM MASH TL-3	EACH																			
	706-01	GUARDRAIL REMOVED	L.F.											10								10
4	707-08.11	HIGH-VISIBILITY CONSTRUCTION FENCE	L.F.					290	605				455	125						190		1665
5	712-01	TRAFFIC CONTROL	LS																			
5,6	712-02.02	INTERCONNECTED PORTABLE BARRIER RAIL	L.F.																			
5	712-02.60	TEMPORARY WORK ZONE CRASH CUSHION (MASH TL-3)	EACH																			
5	712-04.01	FLEXIBLE DRUMS (CHANNELIZING)	EACH																			
5	712-04.50	BARRIER RAIL DELINEATOR	EACH																			
5	712-05.03	WARNING LIGHTS (TYPE C)	EACH																			
5,7	712-06	SIGNS (CONSTRUCTION)	S.F.																			
5	712-08.03	ARROW BOARD (TYPE C)	EACH																			
5	712-08.12	QUEUE PROTECTION TRUCK	DAY																			
5	713-16.01	CHANGEABLE MESSAGE SIGN UNIT	EACH																			
	714-08.11	LIGHT STANDARDS (30 FT POLE HEIGHT)	EACH						1									1				2
	717-01	MOBILIZATION	LS																			
8	725-20.01	CCTV POLE & FOUNDATION (50FT POLE W/LWRNG DVICE)	EACH											1								1
8	725-20.02	CCTV POLE & FOUNDATION (80FT POLE W/LWRNG DVICE)	EACH						1									1				2
8	725-20.09	MAINTENANCE WORK PAD (CONCRETE PAD)	EACH						1									1				2
8	725-20.10	MAINTENANCE WORK PAD (WOOD PLATFORM)	EACH											1								1
8,9	725-20.22	STEEL OVERHEAD SIGN STRUCTURE (SPANS 51FT TO 70FT)	EACH																			
8,10	725-20.43	PULL BOX (TYPE C)	EACH						6				3	1				5	3	3	2	23
8,10	725-20.44	PULL BOX (TYPE D)	EACH			2	1	1	4	2	1	2	2	1	2	1	1	4	2	1	1	28
8,10	725-20.45	PULL BOX (TYPE E)	EACH						1				1	1				1		1		5
8	725-20.55	CABLE (1/C #6 AWG.)	L.F.															1335				1335
8	725-20.56	CABLE (1/C #4 AWG.)	L.F.						1395													1395
8	725-20.57	CABLE (1/C #2 AWG.)	L.F.						690				3165	615								4470
8	725-20.60	CABLE (1/C #3/0 AWG.)	L.F.															2880	4020	4005	4005	14910
8,11,12,13,14,15,16	725-20.71	ELECTRICAL CONNECTION	LS																			
8	725-20.91	CCTV CAMERA SYSTEM (PAN TILT & ZOOM)	EACH						2					1				2				5
8	725-21.02	DYNAMIC MESSAGE SIGN (MULTI-COLOR)	EACH																			
8	725-21.11	NETWORK SWITCH (TYPE A)	EACH						1					1				1				3
8	725-21.12	NETWORK SWITCH (TYPE B)	EACH																			
8,12,17	725-21.43	DEMARCATION SITE (OVERHEAD POWER)	EACH										1									1
8,12,17	725-21.44	DEMARCATION SITE (UNDERGROUND POWER)	EACH						1									1				2
8	725-21.71	TRANSFORMER TYPE A (10KVA)	EACH																			
8	725-21.73	TRANSFORMER (1.5KVA)	EACH															1				1
8	725-21.85	UNINTERRUPTIBLE POWER SUPPLY	EACH						1					1				1				3
8	725-21.87	ENVIRONMENTAL SENSOR COMM CABLE	L.F.											50								50
8	725-21.91	RADAR DETECTION SYSTEM	EACH						1					1				1				3
8	725-21.96	RDS COMM CABLE	L.F.						230					50				210				490
8	725-22.13	ENVIRONMENTAL SENSOR (PVMT TEMP & PRECIP)	EACH											1								1
8,18	725-22.22	CONDUIT BANK (TYPE 2)	L.F.						40					25				45				110
8,18	725-22.24	CONDUIT BANK (TYPE 4)	L.F.			1300	770			1285	1300	1160	125	1140	745	1330	1350	65	655	940	1315	13480
8,18	725-22.32	CONDUIT BANK BORED (TYPE 2)	L.F.						355									55				410
8,18	725-22.34	CONDUIT BANK BORED (TYPE 4)	L.F.		340	15	535	1305	1305	15		125	1175	160	565			1630	655	365		8190
8,18	725-22.50	DMS CONDUIT BANK	L.F.																			
8,18	725-22.71	2IN CONDUIT	L.F.															315				315
8,18	725-22.72	2IN CONDUIT BORED	L.F.						600													600
8,18	725-22.74	2IN CONDUIT W/ BANK	L.F.						25					25				30	655	940	1315	2990
8,18	725-22.75	2IN CONDUIT BORED W/ BANK	L.F.										1025	160				990	655	365		3195
8,18	725-22.78	3IN CONDUIT	L.F.																			
8,18	725-22.80	3IN CONDUIT W/ BANK	L.F.																			
8,18	725-22.81	3IN CONDUIT BORED W/ BANK	L.F.																			
8	725-23.01	ITS CABLE MARKER	EACH			3	2	3	5	3	2	3	3	3	3	2	2	6	3	3	2	48
8	725-23.16	FIBER OPTIC CABLE (144 F)	L.F.		540	1415	1355	1355	1605	1400	1350	1385	1600	1550	1410	1380	1400	2045	1410	1555	1365	24120
8	725-23.21	FIBER OPTIC DROP CABLE (12 F)	L.F.						450					150				155				755
8	725-23.26	FIBER OPTIC CLOSURE (12 F)	EACH						1					1				1				3
8	725-23.27	FIBER OPTIC CLOSURE (144 F)	EACH		1								1							1		3
8,19	725-23.28	FIBER OPTIC SPLICE FUSION	EACH		62				4				144	4				4		144		362
8	725-23.30	FIBER OPTIC TERMINATION CABINET (144 F)	EACH																			
8	725-23.31	FIBER OPTIC DROP PANEL (12 F)	EACH						1					1				1				3
8	725-24.02	CABINET (TYPE B)	EACH						1					1				1				3
8	725-24.03	CABINET (TYPE C)	EACH																			
8	725-24.11	ITS COMMUNICATIONS HUB (BUILDING)	EACH																			
8	725-24.21	PREVENTIVE MAINTENANCE FOR SYSTEM	LS																			
8	725-24.25	UNSCHEDULED MAINTENANCE LABOR	HOUR																			
8	725-24.31	SPARE PARTS	LS																			
8	725-24.41	BURN-IN PERIOD	LS																			
8	725-24.52	SOFTWARE INTEGRATION	LS																			
8	725-24.54	NETWORK INTEGRATION	LS																			
8	725-24.55	AS-BUILT PLANS	LS																			
8	725-24.62	TRAINING	HOUR																			
2	740-11.02	TEMPORARY SEDIMENT TUBE 12IN	L.F.						30					30				30				90
12	790-03.03	POLE 40FT CLASS 4 WOOD	EACH																			
20	801-01	SEEDING (WITH MULCH)	UNIT		1	1	1	1	2	1	1	1	1	2	1	1	1	2	1	1	1	20
20	801-01.36	SPECIAL WETLAND SEED MIXTURE	UNIT		0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	8.5
20	801-02	SEEDING (WITHOUT MULCH)	UNIT						0.5					0.5				0.5				1.5
20	801-03	WATER (SEEDING & SODDING)	M.G.						0.5					0.5				0.5				1.5

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	2A
PS&E	2025	R-NH-385(33)	2A

SEALED BY

MATTHEW J. DAVIS
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
2007-08
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

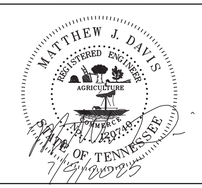
ESTIMATED ROADWAY QUANTITIES BY SHEET

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FOOTNOTE	ITEM NO.	DESCRIPTION	UNIT	TOTALS BY SHEET																	SHEET TOTAL	TOTAL
				23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40		
1	201-01	CLEARING AND GRUBBING	LS																			1
2	203-07	FURNISHING & SPREADING TOPSOIL	C.Y.	1				1			1	1		1		1				1	1	8	11
2	209-05	SEDIMENT REMOVAL	C.Y.	10				10			10	10		10		10				10	10	80	110
2	209-09.01	SANDBAGS	BAG	18				6			12	18		6		6				6	6	78	96
2	209-20.03	POLYETHYLENE SHEETING (6 MIL. MINIMUM)	S.Y.	203				25			178	203		25		25				25	25	709	784
3	303-01	MINERAL AGGREGATE, TYPE A BASE, GRADING D	TON					0.5								0.5				0.5		1.5	3
	705-04.09	EARTH PAD FOR TYPE 38 GR END TREATMENT	EACH	2						1	1	1		1								6	6
	705-06.01	W BEAM GR (TYPE 2) MASH TL-3	L.F.	475							500	212.5		137.5								1325	1487.5
	705-06.10	GR TERMINALTRAILING END (TYPE 13) MASH TL-3	EACH	2							2	1		1								6	7
	705-06.20	TANGENT ENERGY ABSORBING TERM MASH TL-3	EACH	2						1	1	1		1								6	6
	706-01	GUARDRAIL REMOVED	L.F.																				10
4	707-08.11	HIGH-VISIBILITY CONSTRUCTION FENCE	L.F.																	710		710	2375
5	712-01	TRAFFIC CONTROL	LS																				1
5,6	712-02.02	INTERCONNECTED PORTABLE BARRIER RAIL	L.F.																				2100
5	712-02.60	TEMPORARY WORK ZONE CRASH CUSHION (MASH TL-3)	EACH																				7
5	712-04.01	FLEXIBLE DRUMS (CHANNELIZING)	EACH																				200
5	712-04.50	BARRIER RAIL DELINEATOR	EACH																				42
5	712-05.03	WARNING LIGHTS (TYPE C)	EACH																				200
5,7	712-06	SIGNS (CONSTRUCTION)	S.F.																				1296
5	712-08.03	ARROW BOARD (TYPE C)	EACH																				2
5	712-08.12	QUEUE PROTECTION TRUCK	DAY																				6
5	713-16.01	CHANGEABLE MESSAGE SIGN UNIT	EACH																				3
	714-08.11	LIGHT STANDARDS (30 FT POLE HEIGHT)	EACH													1						1	3
	717-01	MOBILIZATION	LS																				1
8	725-20.01	CCTV POLE & FOUNDATION (50FT POLE W/LWRNG DVICE)	EACH	1								1		1								3	4
8	725-20.02	CCTV POLE & FOUNDATION (80FT POLE W/LWRNG DVICE)	EACH					1								1				1	1	4	6
8	725-20.09	MAINTENANCE WORK PAD (CONCRETE PAD)	EACH					1								1				1		3	5
8	725-20.10	MAINTENANCE WORK PAD (WOOD PLATFORM)	EACH	1								1		1							1	4	5
8,9	725-20.22	STEEL OVERHEAD SIGN STRUCTURE (SPANS 51FT TO 70FT)	EACH	1							1	1										3	3
8,10	725-20.43	PULL BOX (TYPE C)	EACH	4				4			7	2		2	2	4			3	5	2	35	58
8,10	725-20.44	PULL BOX (TYPE D)	EACH	3	4	1	1	2	2	3	3	2	3		1	4	1	1	3	2	2	38	66
8,10	725-20.45	PULL BOX (TYPE E)	EACH	1				1			1	1		1		1				3		9	14
8	725-20.55	CABLE (1/C #6 AWG.)	L.F.								1695	1530								210		3435	4770
8	725-20.56	CABLE (1/C #4 AWG.)	L.F.					2100								2685						4785	6180
8	725-20.57	CABLE (1/C #2 AWG.)	L.F.	580							3970	1450		1740	510					2115	1380	11745	16215
8	725-20.60	CABLE (1/C #3/0 AWG.)	L.F.	1740															3220	4500		9460	24370
8,11,12,13,14,15,16	725-20.71	ELECTRICAL CONNECTION	LS																				1
8	725-20.91	CCTV CAMERA SYSTEM (PAN TILT & ZOOM)	EACH	1				2				1		1		2				2	2	11	16
8	725-21.02	DYNAMIC MESSAGE SIGN (MULTI-COLOR)	EACH	1							1	1										3	3
8	725-21.11	NETWORK SWITCH (TYPE A)	EACH	2				1			1	2		1		1				1	1	10	13
8	725-21.12	NETWORK SWITCH (TYPE B)	EACH																	1		1	1
8,12,17	725-21.43	DEMARCATION SITE (OVERHEAD POWER)	EACH					1								1						2	3
8,12,17	725-21.44	DEMARCATION SITE (UNDERGROUND POWER)	EACH								1				1				1			3	5
8	725-21.71	TRANSFORMER TYPE A (10KVA)	EACH	1							1	1										3	3
8	725-21.73	TRANSFORMER (1.5KVA)	EACH	1								1								1	1	4	5
8	725-21.85	UNINTERRUPTIBLE POWER SUPPLY	EACH	2				1			1	2		1		1				1	1	10	13
8	725-21.87	ENVIRONMENTAL SENSOR COMM CABLE	L.F.	50								50								50		150	200
8	725-21.91	RADAR DETECTION SYSTEM	EACH	1								1		1		1						4	7
8	725-21.96	RDS COMM CABLE	L.F.	50								50		50		225						375	865
8	725-22.13	ENVIRONMENTAL SENSOR (PVMT TEMP & PRECIP)	EACH	1								1								1		3	4
8,18	725-22.22	CONDUIT BANK (TYPE 2)	L.F.	150				15			20	30		45		40				60	25	385	495
8,18	725-22.24	CONDUIT BANK (TYPE 4)	L.F.	1200	1075	1300	1240	940	1135	1200	930	1335	1195	1320	470	715	1310	1305	1050	880	205	18805	32285
8,18	725-22.32	CONDUIT BANK BORED (TYPE 2)	L.F.					530			170					215					200	1115	1525
8,18	725-22.34	CONDUIT BANK BORED (TYPE 4)	L.F.	105	440			275	115	120	365		115		900	630			265	840		4170	12360
8,18	725-22.50	DMS CONDUIT BANK	L.F.	75							75	75										225	225
8,18	725-22.71	2IN CONDUIT	L.F.					290			685	145			55	515				50		1740	2055
8,18	725-22.72	2IN CONDUIT BORED	L.F.					360			170					165						695	1295
8,18	725-22.74	2IN CONDUIT W/ BANK	L.F.	595							20	475		550	95	25				720	230	2710	5700
8,18	725-22.75	2IN CONDUIT BORED W/ BANK	L.F.	105							365					140					200	810	4005
8,18	725-22.78	3IN CONDUIT	L.F.																70			70	70
8,18	725-22.80	3IN CONDUIT W/ BANK	L.F.																460			460	460
8,18	725-22.81	3IN CONDUIT BORED W/ BANK	L.F.																100	870		970	970
8	725-23.01	ITS CABLE MARKER	EACH	5	4	2	2	4	4	3	3	4	3	3	2	5	2	2	4	5	2	59	107
8	725-23.16	FIBER OPTIC CABLE (144 F)	L.F.	1605	1715	1350	1290	1465	1350	1470	1545	1585	1460	1520	1420	1645	1360	1355	1465	1515		25115	49235
8	725-23.21	FIBER OPTIC DROP CABLE (12 F)	L.F.	400				695			340	600		170		315				920	505	3945	4700
8	725-23.26	FIBER OPTIC CLOSURE (12 F)	EACH	1							1	1				1				1		5	8
8	725-23.27	FIBER OPTIC CLOSURE (144 F)	EACH					1						1								2	5
8,19	725-23.28	FIBER OPTIC SPLICE FUSION	EACH	6				146			4	6		146		4				4		316	678
8	725-23.30	FIBER OPTIC TERMINATION CABINET (144 F)	EACH																	1		1	1
8	725-23.31	FIBER OPTIC DROP PANEL (12 F)	EACH	2				1			1	2		1		1				2	1	11	14
8	725-24.02	CABINET (TYPE B)	EACH	1				1				1		1		1				1	1	7	10
8	725-24.03	CABINET (TYPE C)	EACH	1							1	1										3	3
8	725-24.11	ITS COMMUNICATIONS HUB (BUILDING)	EACH																	1		1	1
8	725-24.21	PREVENTIVE MAINTENANCE FOR SYSTEM	LS																				1
8	725-24.25	UNSCHEDULED MAINTENANCE LABOR	HOUR																				30
8	725-24.31	SPARE PARTS	LS																				1
8	725-24.41	BURN-IN PERIOD	LS																				1
8	725-24.52	SOFTWARE INTEGRATION	LS																				1
8	725-24.54	NETWORK INTEGRATION	LS																				1
8	725-24.55	AS-BUILT PLANS	LS																				1
8	725-24.62	TRAINING	HOUR																				12
2	740-11.02	TEMPORARY SEDIMENT TUBE 12IN	L.F.	90				30			60	90		30		30				30	30	390	480
12	790-03.03	POLE 40FT CLASS 4 WOOD	EACH								1											1	1
20	801-01	SEEDING (WITH MULCH)	UNIT	3	1	1	1	2	1	1	2	3	1	2	1	2	1	1	1	2	2	28	48
20	801-01.36	SPECIAL WETLAND SEED MIXTURE	UNIT	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	9	17.5
20	801-02	SEEDING (WITHOUT MULCH)	UNIT	0.5				0.5			0.5	0.5		0.5		0.5				0.5	0.5	4	5.5
20	801-03	WATER (SEEDING & SODDING)	M.G.	0.5				0.5			0.5	0.5		0.5		0.5				0.5	0.5	4	5.5

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	2A1
PS&E	2025	R-NH-385(33)	2A1

SEALED BY



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ESTIMATED ROADWAY QUANTITIES BY SHEET

7/9/2025 9:11:00 AM
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GENERAL NOTES

GRADING

(1) ANY AREA THAT IS DISTURBED OUTSIDE LIMITS OF CONSTRUCTION DURING THE LIFE OF THIS PROJECT SHALL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE.

(2) CERTIFICATION FOR ALL BORROW PITS MUST BE OBTAINED IN ACCORDANCE WITH SUBSECTION 107.06 OF THE STANDARD SPECIFICATIONS.

(3) THE CONTRACTOR SHALL NOT DISPOSE OF ANY MATERIAL EITHER ON OR OFF STATE-OWNED R.O.W. IN A REGULATORY FLOOD WAY AS DEFINED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) WITHOUT APPROVAL BY FEMA. ALL MATERIAL SHALL BE DISPOSED OF IN UPLAND (NON-WETLAND) AREAS AND ABOVE ORDINARY HIGH WATER OF ANY ADJACENT WATERCOURSE. THIS DOES NOT ELIMINATE THE NEED TO OBTAIN ANY OTHER LICENSES OR PERMITS THAT MAY BE REQUIRED BY ANY OTHER FEDERAL, STATE OR LOCAL AGENCY.

SEEDING AND SODDING

(1) ALL EXISTING ROADS WITHIN THE RIGHT-OF-WAY AND NOT IN THE GRADED AREA THAT ARE TO BE ABANDONED SHALL BE SCARIFIED, OBLITERATED, TOPSOILED AND SEEDED. SCARIFYING AND OBLITERATING THE PAVEMENT WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT THE COST WILL BE INCLUDED IN THE COST OF OTHER ITEMS. TOPSOIL, IN ACCORDANCE WITH SECTION 203 OF THE STANDARD SPECIFICATIONS, WILL BE MEASURED AND PAID FOR UNDER ITEM NO. 203-04 AND/OR 203-07. SEEDING, IN ACCORDANCE WITH SECTION 801 OF THE STANDARD SPECIFICATIONS, WILL BE MEASURED AND PAID FOR UNDER ITEM NO. 801-01.

(3) ITEM NO. 801-01.36 SHALL BE USED ON SLOPES 3:1 OR STEEPER AND OTHER AREAS AS INDICATED IN THE PLANS THAT ARE INACCESSIBLE FOR MOWING.

(4) ITEM NO. 801-01, SEEDING (WITH MULCH), SHALL BE USED WHERE EROSION CONTROL BLANKET OR SOD ARE NOT APPLIED.

(5) ITEM NO. 801-02, SEEDING (WITHOUT MULCH) AND EROSION CONTROL BLANKET, SHALL BE PLACED AT LOCATIONS SHOWN ON THE PLANS AS WELL AS LOCATIONS DIRECTED BY THE ENGINEER.

GUARDRAIL

(1) THE CONTRACTOR SHALL NOT REMOVE ANY SECTIONS OF EXISTING GUARDRAIL TO REWORK SHOULDERS OR FLATTEN SLOPES UNTIL THE ENGINEER CONCURS IN THE NECESSITY OF REMOVAL DUE TO CONSTRUCTION REQUIREMENTS AND THE APPROPRIATE WARNING DEVICES ARE INSTALLED. THE PROPOSED GUARDRAIL, INCLUDING ANY ANCHOR SYSTEM, SHALL BE INSTALLED QUICKLY TO MINIMIZE TRAFFIC EXPOSURE TO ANY HAZARD. NO PAYMENT WILL BE MADE FOR A SECTION OF PROPOSED GUARDRAIL, INCLUDING ANCHORS, UNTIL IT IS COMPLETE IN PLACE.

(3) IF ANY APPROACH END OF A SECTION OF GUARDRAIL OR BRIDGE RAIL MUST TEMPORARILY BE LEFT INCOMPLETE AND EXPOSED TO TRAFFIC, THE CONTRACTOR SHALL USE TWO (2) TEMPORARY BARRICADES OR DRUMS WITH TYPE “A”LIGHTS AND ROUNDED END ELEMENTS AS MINIMUM MEASURES TO PROTECT TRAFFIC FROM THE HAZARD OF AN EXPOSED END. ALL COST OF FURNISHING AND INSTALLING TEMPORARY BARRICADES OR DRUMS WITH TYPE “A” LIGHTS TO DELINEATE GUARDRAIL END AND A TEMPORARY ROUNDED END ELEMENT SHALL BE INCLUDED IN THE COST OF THE PROPOSED GUARDRAIL END TERMINAL.

DRAINAGE

(1) THE CONTRACTOR SHALL SHAPE DITCHES TO THE SPECIFIED DESIGN. THIS WORK WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT THE COST WILL BE INCLUDED IN THE COST OF OTHER ITEMS.

MISCELLANEOUS

(3) NOTHING IN THE GENERAL NOTES OR SPECIAL PROVISIONS SHALL RELIEVE THE CONTRACTOR FROM HIS RESPONSIBILITIES TOWARD THE SAFETY AND CONVENIENCE OF THE GENERAL PUBLIC AND THE RESIDENTS ALONG THE PROPOSED CONSTRUCTION AREA.

CONSTRUCTION WORK ZONE AND TRAFFIC CONTROL

(1) ADVANCED WARNING SIGNS SHALL NOT BE DISPLAYED MORE THAN FORTY-EIGHT (48) HOURS BEFORE PHYSICAL CONSTRUCTION BEGINS. SIGNS MAY BE ERECTED UP TO ONE WEEK BEFORE NEEDED, IF THE SIGN FACE IS FULLY COVERED.

(2) IF THE CONTRACTOR MOVES OFF THE PROJECT, HE SHALL COVER OR REMOVE ALL UNNEEDED SIGNS AS DIRECTED BY THE ENGINEER. COSTS OF REMOVAL, COVERING, AND REINSTALLING SIGNS SHALL NOT BE MEASURED AND PAID FOR SEPARATELY, BUT ALL COSTS SHALL BE INCLUDED IN THE ORIGINAL UNIT PRICE BID FOR ITEM NO. 712-06, SIGNS (CONSTRUCTION) PER SQUARE FOOT.

(3) A LONG TERM BUT SPORADIC USE WARNING SIGN, SUCH AS A FLAGGER SIGN, MAY REMAIN IN PLACE WHEN NOT REQUIRED PROVIDED THE SIGN FACE IS FULLY COVERED.

(4) TRAFFIC CONTROL DEVICES SHALL NOT BE DISPLAYED OR ERECTED UNLESS RELATED CONDITIONS ARE PRESENT NECESSITATING WARNING.

(5) USE OF BARRICADES, PORTABLE BARRIER RAILS, AND DRUMS SHALL BE LIMITED TO THE IMMEDIATE AREAS OF CONSTRUCTION WHERE A HAZARD IS PRESENT. THESE DEVICES SHALL NOT BE STORED ALONG THE ROADWAY WITHIN THIRTY (30) FEET OF THE EDGE OF THE TRAVELED WAY BEFORE OR AFTER USE UNLESS PROTECTED BY GUARDRAIL, BRIDGE RAIL, AND/OR BARRIERS INSTALLED FOR OTHER PURPOSES FOR ROADWAYS WITH CURRENT ADT’S LESS THAN 1500 AND DESIGN SPEED OF LESS THAN 60 MPH. THIS DISTANCE SHALL INCREASE TO FORTY-FIVE (45) FEET FOR ROADWAYS WITH CURRENT ADT’S OF 1500 OR GREATER AND DESIGN SPEED OF 60 MPH OR GREATER OR ON THE OUTSIDE OF A HORIZONTAL CURVE. THESE DEVICES SHALL BE REMOVED FROM THE CONSTRUCTION WORK ZONE WHEN THE ENGINEER DETERMINES THEY ARE NO LONGER NEEDED. WHERE THERE IS INSUFFICIENT RIGHT-OF-WAY TO PROVIDE FOR THIS REQUIRED SETBACK, THE CONTRACTOR SHALL DETERMINE THE ALTERNATE LOCATIONS AND REQUEST THE ENGINEER’S APPROVAL TO USE THEM.

CONSTRUCTION WORK ZONE AND TRAFFIC CONTROL CONTINUED

(6) THE CONTRACTOR SHALL NOT BE PERMITTED TO PARK ANY VEHICLES OR CONSTRUCTION EQUIPMENT DURING PERIODS OF INACTIVITY, WITHIN THIRTY (30) FEET OF THE EDGE OF PAVEMENT WHEN THE LANE IS OPEN TO TRAFFIC UNLESS PROTECTED BY GUARDRAIL, BRIDGE RAIL, AND/OR BARRIERS INSTALLED FOR OTHER PURPOSES FOR ROADWAYS WITH CURRENT ADT’S LESS THAN 1500 AND DESIGN SPEED OF LESS THAN 60 MPH. THIS DISTANCE SHALL BE INCREASED TO FORTY-FIVE (45) FEET FOR ROADWAYS WITH CURRENT ADT’S OF 1500 OR GREATER AND DESIGN SPEED OF 60 MPH OR GREATER OR ON THE OUTSIDE OF A HORIZONTAL CURVE. PRIVATELY OWNED VEHICLES SHALL NOT BE ALLOWED TO PARK WITHIN THIRTY (30) FEET OF AN OPEN TRAFFIC LANE AT ANY TIME UNLESS PROTECTED AS DESCRIBED ABOVE FOR ROADWAYS WITH CURRENT ADT’S LESS THAN 1500 AND DESIGN SPEED OF LESS THAN 60 MPH. THIS DISTANCE SHALL BE INCREASED TO FORTY-FIVE (45) FEET FOR ROADWAYS WITH CURRENT ADT’S OF 1500 OR GREATER AND DESIGN SPEED OF 60 MPH OR GREATER OR ON THE OUTSIDE OF A HORIZONTAL CURVE. WHERE THERE IS INSUFFICIENT RIGHT-OF-WAY TO PROVIDE FOR THIS REQUIRED SETBACK, THE CONTRACTOR SHALL DETERMINE THE ALTERNATE LOCATIONS AND REQUEST THE ENGINEER’S APPROVAL TO USE THEM.

(7) ALL DETOUR AND CONSTRUCTION SIGNING SHALL BE IN STRICT ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

(8) ALL DETOURS SHALL BE PAVED, STRIPED, SIGNED, AND FLEXIBLE DRUMS ARE TO BE IN PLACE BEFORE IT IS OPENED TO TRAFFIC.

SPECIAL NOTES

GRADING

(2) BORING DEPICTIONS SHOWN ON THE FOUNDATION DATA SHEETS, SOILS SHEETS, PLANS, AND CROSS-SECTIONS INDICATE SOIL AND ROCK CONDITIONS AT THE SPECIFIC BORING LOCATIONS. ANY SOIL PROFILE AND/OR ROCK LINE IS INTERPRETIVE BASED ON THE JUDGMENT OF THE GEOTECHNICAL ENGINEER/GEOLOGIST. THE TRANSITION BETWEEN BORINGS AND LAYERS MAY VARY SIGNIFICANTLY DEPENDING ON THE GEOLOGIC FORMATIONS ENCOUNTERED.

(3) TO ASSIST IN BID PREPARATION FOR EARTHWORK AND FOUNDATION CONSTRUCTION, DETAIL ROCK AND SOIL DESCRIPTION AND ON SOME PROJECTS, ROCK CORE SAMPLES ARE AVAILABLE FOR INSPECTION AT THE MATERIALS AND TESTS HEADQUARTERS AT 6601 CENTENNIAL BOULEVARD, NASHVILLE, TN OR AT THE TDOT REGION 1 BUILDING IN KNOXVILLE, TN.

(4) THE CONTRACTOR SHALL UTILIZE ALL INFORMATION PROVIDED IN THE PLANS, CROSS-SECTIONS AND CONTRACT DOCUMENTS INCLUDING ANY SPECIAL PROVISIONS AS WELL AS UTILIZING HIS PAST EXPERIENCE WITH PROJECTS OF SIMILAR NATURE, SCOPE AND LOCATION IN PREPARATION OF HIS BID FOR EARTHWORK ITEMS. IT IS THE CONTRACTOR’S RESPONSIBILITY TO DETERMINE AND PROVIDE EQUIPMENT AND MEANS NECESSARY TO CONDUCT THE EXCAVATION ACTIVITIES IN ACCORDANCE WITH PLANS AND SPECIFICATIONS.

UTILITY RELOCATION

(1) RAIN WATER WHICH COLLECTS IN THE UTILITY TRENCH SHALL BE PUMPED INTO A DEWATERING STRUCTURE OR SEDIMENT FILTER BAG AND MAINTAINED.

(2) SEDIMENT TUBES SHALL BE INSTALLED ON THE DOWNSTREAM SIDE OF STOCKPILED SOIL. TRENCHING ACROSS WET WEATHER CONVEYANCES SHALL BE DONE DURING NO FLOW CONDITIONS AND STABILIZED BY THE END OF THE WORK DAY.

(3) IT IS THE RESPONSIBILITY OF THE STATE UTILITY CONTRACTOR/INSTALLER TO PROTECT FROM EROSION OF EXPOSED EARTH RESULTING FROM THEIR OPERATIONS AND TO PROVIDE FOR CONTAINMENT OF SEDIMENT THAT MAY RESULT FROM THEIR 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 THEIR WORK, EXPOSED EARTH AREAS SHALL BE STABILIZED AS SOON AS POSSIBLE TO PREVENT EROSION. AT NO TIME SHALL EXPOSED EARTH RESULTING FROM THEIR OPERATIONS HAVE UNPROTECTED ACCESS TO FLOWING OFF-SITE AND ENTERING WATERS OF THE STATE/U.S.

(4) 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 SEVEN DAYS AFTER BEING BACKFILLED. ANY TEMPORARY SPOIL OF EXCAVATED EARTH SHALL BE LOCATED WITHIN TDOT EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) MEASURES OR RECEIVE SEPARATE EPSC MEASURES. IF TRENCHES ARE NOT BACKFILLED OVERNIGHT, APPROPRIATE EPSC MEASURES WILL BE INSTALLED BY THE STATE UTILITY CONTRACTOR UNTIL SUCH TIME AS THE TRENCH IS BACKFILLED.

(5) TRENCHES FORMED FOR THE INSTALLATION OF BURIED UTILITIES MAY CAUSE STORM WATER RUNOFF TO CONCENTRATE AT THE TRENCH LINE. ADDITIONAL EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) MEASURES MAY BE REQUIRED TO BE INSTALLED AS APPROVED BY THE TDOT PROJECT ENGINEER.

(6) IN REGARD TO EROSION PREVENTION AND SEDIMENT CONTROL (EPSC), TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION (TDEC) REGULATIONS APPLY TO THE STATE UTILITY CONTRACTORS IN THIS PROJECT, THEREFORE, THE STATE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF THE STORM WATER POLLUTIONS PREVENTION PLANS (SWPPP). THE STATE CONTRACTOR IS RESPONSIBLE FOR EPSC MEASURES RELATED TO UTILITY CONSTRUCTION INCLUDED IN THE STATE CONTRACT WORK.

MISCELLANEOUS

(1) ALL BASELINES SHOWN IN THE PLANS ARE FOR GRAPHICAL INFORMATION PURPOSES ONLY AND ARE NOT STAKED IN THE FIELD.

(2) LOCATIONS OF UTILITIES SHOWN ON PLANS ARE APPROXIMATE ONLY. EXACT LOCATIONS SHALL BE DETERMINED IN FIELD BY CONTACTING INVOLVED UTILITY COMPANIES.

(3) THE LOCATION OF ALL PROPOSED EQUIPMENT TO BE INSTALLED SHALL BE CONSIDERED TO BE APPROXIMATE. ADJUSTMENTS MAY BECOME NECESSARY. VARIATIONS FROM PROPOSED LOCATIONS MUST BE APPROVED BY THE ENGINEER. THE CONTRACTOR SHALL STAKE ALL POLE LOCATIONS AND RECEIVE APPROVAL FROM THE ENGINEER PRIOR TO INSTALLATION OR CONSTRUCTION.

(4) THE CONTRACTOR SHALL COORDINATE HIS ACTIVITIES WITH OTHER CONTRACTORS IN THE WORK AREA. CONFLICTS WILL BE HANDLED AT THE DISCRETION OF THE ENGINEER.

(5) THE CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS AND DATABASE OF ALL EQUIPMENT PLACED AS PART OF THE CONTRACT PRIOR TO CONDITIONAL ACCEPTANCE.

(6) ALL REMOVED EQUIPMENT OR MATERIALS SHALL BE DISPOSED OF BY THE CONTRACTOR. THE COST OF DISPOSAL SHALL BE INCLUDED IN THE COST OF THE OTHER ITEMS.

MISCELLANEOUS CONTINUED

(7) ALL ITS WORK MUST BE PERFORMED BY A QUALIFIED ITS CONTRACTOR. SEE SP SECTION 2.1.4 FOR ITS CONTRACTOR AND SUBCONTRACTOR QUALIFICATION REQUIREMENTS.

(8) ALL DEVICE LOCATIONS REPRESENT CENTER LOCATION FOR MOUNTING POLE UNLESS INDICATED OTHERWISE.

(9) CONTRACTOR SHALL NOT BE ALLOWED TO STOCKPILE CONSTRUCTION MATERIALS OR EQUIPMENT WITHIN CLEAR ZONE (40' FROM EDGE OF TRAVEL LANE) UNLESS SHIELDED BY BARRIER.

(10) ALL GUARDRAIL THAT IS REMOVED TEMPORARILY FOR THE INSTALLATION OF DEVICES SHALL BE REINSTALLED IMMEDIATELY OR THE AREA SHALL BE PROTECTED BY BARRIER.

(11) PROPOSED GUARDRAIL SHALL BE INSTALLED PRIOR TO CONSTRUCTION OF ABOVE GROUND HAZARD BEHIND THE PROPOSED GUARDRAIL.

(12) NO GROUT SHALL BE PLACED AT THE BASE OF STEEL POLES (LIGHT STANDARDS FOR CCTV POLES) BETWEEN THE POLE BASE AND FOUNDATION. THE BASE OF THE POLE SHALL REMAIN OPEN TO PERMIT DRAINAGE AND AIR CIRCULATION.

(13) WHERE SELECTIVE TREE AND VEGETATION TRIMMING, REMOVAL, AND CLEAN-UP IS NOTED ON THE PLANS, THE CONTRACTOR SHALL REMOVE AND DISPOSE OF TREES AND/OR VEGETATION THAT BLOCKS VIEWS FROM CCTV CAMERA SITES. FOR ESTIMATING PURPOSES, A TEN (10) FOOT AREA IS MEASURED FROM THE EDGE OF PAVED SHOULDER OR THE BACK OF GUARDRAIL TOWARDS THE RIGHT-OF-WAY LINE. ALL AREAS UNDERGOING SELECTIVE TREE AND VEGETATION TRIMMING, REMOVAL, AND CLEAN-UP SHALL BE MARKED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER PRIOR TO ANY ACTIVITY. THE FINISHED APPEARANCE OF SELECTIVE TREE AND VEGETATION REMOVAL AND CLEAN-UP SHALL NOT RESEMBLE A "TREE WALL" OR HAVE A VERTICAL PLANE OF REMAINING VEGETATION. THE CONTRACTOR SHALL PERFORM SELECTIVE PRUNING AND BRANCH REMOVAL OUTSIDE OF THE TEN (10) FOOT AREA TO ACHIEVE HEALTHY, BALANCED VEGETATION. CLEAN-UP OF ALL CUTTINGS SHALL BE COMPLETED BY THE CONTRACTOR WITHIN FIVE (5) DAYS OF THE TREE AND VEGETATION TRIMMING AND REMOVAL WORK.

CONDUIT / TRENCHING

(1) WHEN/IF HAND DIGGING (OR OTHER CAREFUL TRENCHING METHOD) OF A NEW TRENCH IS REQUIRED DUE TO CONSTRAINTS IN THE FIELD, SUCH AS CROSSING UNDER PAVED DRAINAGE FLUMES OR AVOIDING EXISTING UTILITIES, SUCH EFFORTS SHALL BE CONDUCTED BY THE CONTRACTOR AS NEEDED AND/OR DIRECTED BY THE ENGINEER. NO SEPARATE MEASUREMENT OR PAYMENT SHALL BE MADE FOR HAND DIGGING OR REPAIR OF PAVEMENT DAMAGED BY THE CONTRACTOR.

(2) CONDUITS SHALL BE INSTALLED A MINIMUM OF FOUR (4) FEET BEHIND EXISTING AND PROPOSED GUARDRAIL POSTS. WHEN NO GUARDRAIL IS INSTALLED, CONDUITS SHALL BE INSTALLED A MINIMUM OF EIGHT (8) FEET CLEAR OF THE EDGE OF THE PAVED SHOULDER. HOWEVER, THERE MAY BE AREAS, AS IDENTIFIED IN THE ITS LAYOUT SHEETS VIA CONSTRUCTION NOTES, THAT WILL REQUIRE THESE OFFSETS TO BE VIOLATED. THESE INSTALLATIONS SHALL BE APPROVED BY THE ENGINEER PRIOR TO THE CONSTRUCTION.

(3) CONDUITS SHALL BE INSTALLED ONE (1) FOOT IN FRONT OF CONCRETE BARRIERS, SOUND WALLS, OR RETAINING WALLS UNDER THE SHOULDER WHERE THE SHOULDER PAVEMENT IS AGAINST THE BARRIER WALLS.

(4) CONDUCTORS IN PULL BOXES AND EQUIPMENT ENCLOSURES SHALL BE NEATLY ARRANGED AND LACED WITH APPROVED CABLE TIES, IN ACCORDANCE WITH INDUSTRY STANDARD PRACTICE AND AS NOTED ON THE PLANS.

(5) THE CONTRACTOR SHALL COIL ADDITIONAL CABLE IN THE BOTTOMS OF CABINETS AND WITHIN PULL BOXES AS SPECIFIED ON THE DETAIL SHEETS.

(6) CONDUIT AND PULL BOX LOCATIONS SHOWN ON THESE PLANS ARE DIAGRAMMATIC. ACTUAL ROUTING OR CONDUIT RUNS SHALL CONFORM TO FIELD CONDITIONS. HOWEVER, GUIDANCE HAS BEEN PROVIDED VIA CONSTRUCTION NOTES ON THE ITS LAYOUT SHEETS. THE CONTRACTOR SHALL MARK CONDUIT ROUTES FOR APPROVAL BY THE ENGINEER PRIOR TO CONSTRUCTION.

(7) THE CONTRACTOR SHALL INSTALL A DETECTOR METALIZED "BURIED CABLE" WARNING TAPE CONTINUOUSLY RUN ALONG THE TRENCH TWELVE (12) INCHES ABOVE THE CONDUIT. THE COST OF THE TAPE IS TO BE INCLUDED IN OTHER CONDUIT-RELATED ITEM NUMBERS AND WILL NOT BE PAID FOR SEPARATELY.

(8) MULTIPLE RUNS OF CONDUIT / INNERDUCT SHALL BE PLACED IN THE SAME TRENCH AS SHOWN ON DETAIL SHEETS.

(9) CONDUITS PROVIDING ELECTRICAL SERVICE CONDUCTORS SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST EDITIONS OF THE "NATIONAL ELECTRICAL CODE", THE "NATIONAL ELECTRIC SAFETY CODE", LOCAL BUILDING CODES, AND TO THE REQUIREMENTS OF TDOT AND ALL UTILITIES INVOLVED.

(10) ALL CONDUIT ROUTES UNDERNEATH ASPHALT AND/OR CONCRETE ROADWAYS SHALL BE BORED, DIRECTIONALLY DRILLED, OR VIA OTHER METHODS NOT REQUIRING OPEN TRENCHING. NO OPEN TRENCHING WILL BE ALLOWED IN ASPHALT OR CONCRETE UNLESS SPECIFICALLY STATED AS SO ON THE PLANS. BORES / DIRECTIONAL DRILLS SHOULD BE AS CLOSE AS PRACTICAL TO PERPENDICULAR TO THE ROADWAY CENTERLINE.

(11) WHEN/IF REMOVAL AND REPLACEMENT OF FENCING IS NECESSARY FOR TRENCHING OR BORING OPERATIONS, SUCH EFFORTS SHALL BE CONDUCTED BY THE CONTRACTOR AS NEEDED AND/OR DIRECTED BY THE ENGINEER. NO SEPARATE MEASUREMENT OR PAYMENT SHALL BE MADE.

(12) FOR INSTANCES WHEN THE CONDUIT BANK MUST CROSS UNDERNEATH EXISTING GUARDRAIL PRIOR TO CONSTRUCTION IN AN ASPHALT OR CONCRETE SHOULDER, THE TRENCH BACK FILL MATERIAL SHALL CONSIST ENTIRELY OF FLOWABLE FILL AS IT CROSSES UNDERNEATH THE GUARDRAIL.

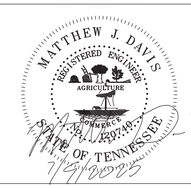
(13) PROPOSED CONDUIT SHALL BE INSTALLED OVER EXISTING STRUCTURES OR ATTACHED TO EXISTING BRIDGES. NO TRENCHING OF PROPOSED CONDUIT SHALL CROSS ANY PROPOSED DRAINAGE FEATURES OR WETLAND AREAS. IF CONTRACTOR OR TDOT INSPECTOR IS UNSURE WHETHER DRAINAGE FEATURES ARE STREAMS OR WETLANDS, CONTRACTOR OR INSPECTOR SHALL CONTACT TDOT ENVIRONMENTAL DIVISION, PERMITS SECTION TO OBTAIN APPROPRIATE PERMITS.

ITS

(1) PRIOR TO ANY WORK RESULTING IN LOSS OF COMMUNICATION TO ANY EXISTING FIELD DEVICES, THE CONTRACTOR SHALL CONTACT THE TDOT REGION 4 TMC FOR APPROVAL. AT A MINIMUM, ALL EXISTING FIELD DEVICES SHALL BE ONLINE AND OPERATIONAL DURING THE HOURS OF 6-9 AM AND 3-7 PM.

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	2B
PS&E	2025	R-NH-385(33)	2B

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GENERAL AND SPECIAL NOTES

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ENVIRONMENTAL NOTES

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	2B1
PS&E	2025	R-NH-385(33)	2B1

ENVIRONMENTAL GENERAL NOTES

NATURAL RESOURCES

(1) SOIL MATERIALS MUST BE PREVENTED FROM ENTERING WATERS OF THE STATE/U.S. EPSC MEASURES TO PROTECT NATURAL RESOURCES AND WATER QUALITY SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD. APPROPRIATE EPSC MEASURES MUST BE INSTALLED ALONG THE BASE OF ALL FILLS AND CUTS, ON THE DOWNHILL SIDE OF STOCKPILED SOIL, AND ALONG NATURAL RESOURCES IN CLEARED AREAS TO PREVENT SEDIMENT MIGRATION INTO STREAMS, WETLANDS OR OTHER NATURAL FEATURES IN ACCORDANCE WITH TDOT STANDARDS. EPSC MEASURES SHALL BE INSTALLED ON THE CONTOUR, ENTRENCHED AND STAKED, AND EXTEND THE WIDTH OF THE AREA TO BE CLEARED.

(2) NEW CHANNEL CONSTRUCTION SHALL BE COMPLETED IN THE DRY AND STABILIZED FOR AT LEAST 72 HOURS PRIOR TO DIVERTING WATER FROM THE EXISTING AND/OR TEMPORARY CHANNEL.

(3) INSTREAM EPSC DEVICES REQUIRE THE TDOT ENVIRONMENTAL DIVISION, PERMITS SECTION REVIEW AND MUST BE PROCESSED BY THE PERMITS SECTION TO OBTAIN WATER QUALITY PERMITS.

(4) THE OPERATION OF EQUIPMENT IN WATERS OF THE STATE/U.S., INCLUDING WETLANDS AND EPHEMERAL, INTERMITTENT, AND PERENNIAL STREAMS, IS NOT ALLOWED.

(5) THE WIDTH OF THE FILL ASSOCIATED WITH TEMPORARY CROSSINGS SHALL BE LIMITED TO THE MINIMUM NECESSARY FOR THE ACTUAL CROSSING, NOT TO EXCEED THE WIDTH SPECIFIED IN THE STANDARD DRAWING.

(6) STREAM BEDS SHALL NOT BE USED AS TRANSPORTATION ROUTES FOR CONSTRUCTION EQUIPMENT. TEMPORARY CULVERT CROSSINGS SHALL BE LIMITED TO ONE POINT PER STREAM AND EPSC MEASURES SHALL BE USED WHERE THE STREAM BANKS ARE DISTURBED. WHERE THE STREAMBED IS NOT COMPOSED OF BEDROCK, A PAD OF CLEAN ROCK SHALL BE USED AT THE CROSSING POINT AND CULVERTED TO PREVENT THE IMPOUNDMENT OF WATER FLOW. CLEAN ROCK IS ROCK OF VARIOUS TYPE AND SIZE, DEPENDING UPON APPLICATION, WHICH CONTAINS NO FINES, SOILS, OR OTHER WASTES OR CONTAMINANTS. OTHER MATERIALS USED FOR ALL TEMPORARY FILLS SHALL BE COMPLETELY REMOVED IN THEIR ENTIRETY AFTER THE WORK IS COMPLETED AND THE AFFECTED AREAS RETURNED TO PREEXISTING ELEVATIONS. ALL TEMPORARY CROSSINGS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. DWG. EC-STR-25 UNLESS SPECIFICALLY ADDRESSED IN THE EPSC PLANS. ALTERNATIVELY, PLACING A TEMPORARY BRIDGE (E.G. BAILEY BRIDGE OR EQUIVALENT, TIMBERS, ETC.) FROM TOP OF BANK TO TOP OF BANK OR THE APPROPRIATE USE OF BARGES AT THE CROSSING TO AVOID DISTURBANCE OF THE STREAMBED IS AN ACCEPTABLE OPTION.

(7) HEAVY EQUIPMENT WORKING IN WETLANDS WITH PERMITTED TEMPORARY IMPACTS SHALL BE PLACED ON MATS, OR OTHER MEASURES MUST BE TAKEN TO MINIMIZE SOIL DISTURBANCE AND COMPACTION UNLESS SPECIFICALLY ADDRESSED IN THE CONSTRUCTION PLANS. ANY MATS AND OTHER MEASURES USED FOR HEAVY EQUIPMENT SHALL BE REMOVED IN THEIR ENTIRETY AFTER THE WORK IS COMPLETED. ALL AFFECTED AREAS SHOULD BE RETURNED TO PRE-EXISTING CONDITIONS.

(8) WETLANDS SHALL NOT BE USED AS EQUIPMENT STORAGE, STAGING, OR TRANSPORTATION AREAS, UNLESS SPECIFICALLY PROVIDED FOR IN THE CONSTRUCTION PLANS AND PERMITS.

(9) THE CONTRACTOR SHALL TAKE APPROPRIATE STEPS PRIOR TO ANY CONSTRUCTION AND MAINTENANCE ACTIVITIES TO ENSURE THAT ENVIRONMENTAL FEATURES (E.G., STREAMS, WETLANDS, SPRINGS, ETC.) ARE NOT IMPACTED BEYOND PERMITTED LOCATIONS. IF THE CONTRACTOR OR TDOT INSPECTOR IS UNSURE OF THE IDENTITY OF AN ENVIRONMENTAL FEATURE, THE INSPECTOR SHALL CONTACT THE TDOT REGION ENVIRONMENTAL TECH GROUP IMMEDIATELY.

SPECIES

(10) NO ACTIVITY MAY SUBSTANTIALLY DISRUPT THE MOVEMENT OF THOSE SPECIES OF AQUATIC LIFE INDIGENOUS TO THE WATER BODY, INCLUDING THOSE SPECIES THAT NORMALLY MIGRATE THROUGH THE AREA.

(11) SHOULD CLIFF SWALLOW OR BARN SWALLOW NESTS, EGGS, OR BIRDS (YOUNG AND ADULTS) BE PRESENT, THE CONTRACTOR SHALL CONTACT THE REGIONAL ECOLOGY OFFICE TO DETERMINE IF SEASONAL RESTRICTIONS WILL BE NECESSARY. GENERALLY, BIRDS, NESTS, AND EGGS MAY NOT BE DISTURBED BETWEEN APRIL 15 AND JULY 31. FROM AUGUST 1 TO APRIL 14, NESTS CAN BE REMOVED OR DESTROYED SO LONG AS BIRDS OR EGGS ARE NOT PRESENT, AND MEASURES IMPLEMENTED TO PREVENT FUTURE NEST BUILDING AT THE SITE (I.E., CLOSING OFF AREA USING NETTING).

(12) IF THE REMOVAL OF ANY TREES WITH A DIAMETER AT BREAST HEIGHT (DBH) GREATER THAN 3 INCHES IS DEEMED NECESSARY THE TDOT SUPERVISOR SHALL CONTACT THE TDOT ENVIRONMENTAL DIVISION, ECOLOGY SECTION IMMEDIATELY.

PERMITS, PLANS, AND RECORDS

(13) THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR AND OBTAIN ANY NECESSARY ENVIRONMENTAL PERMITS OR APPROVALS, INCLUDING BUT NOT LIMITED TO ARCHAEOLOGY, ECOLOGY, HISTORICAL, HAZARDOUS MATERIALS, AIR AND NOISE, TDEC ARAP/401, USACE SECTION 404, TVA SECTION 26A, AND TDEC NPDES PERMITS, FROM FEDERAL, STATE AND/OR LOCAL AGENCIES REGARDING ANY MATERIAL AND STAGING AREAS AND THE OPERATION OF ANY PROJECT-DEDICATED ASPHALT AND/OR CONCRETE PLANTS TO BE USED. ANY SUCH PERMITS SHALL BE SUPPLIED TO THE TDOT PROJECT RESPONSIBLE PARTY PRIOR TO THE USE OF THE PERMITTED AREA(S).

(14) ANY DISAGREEMENT BETWEEN THE CONSTRUCTION PLANS, THE PROJECT AS CONSTRUCTED, AND THE PERMIT(S) ISSUED FOR THE PROJECT, SHALL BE BROUGHT TO THE ATTENTION OF THE TDOT PROJECT RESPONSIBLE PARTY. THE ENVIRONMENTAL DIVISION, DESIGN DIVISION, AND HEADQUARTERS CONSTRUCTION OFFICE SHALL BE CONTACTED IN THESE INSTANCES AND DECIDE WHICH HAS PRECEDENCE AND WHETHER PERMIT OR PLANS REVISIONS ARE NEEDED. IN GENERAL, PERMIT CONDITIONS WILL PREVAIL.

(15) IF A CHANGE IN PROJECT SCOPE OCCURS DURING CONSTRUCTION, INCLUDING VALUE ENGINEERING, THE TDOT PERMIT SECTION SHALL BE CONTACTED TO DETERMINE WHETHER PERMIT REVISIONS ARE NEEDED. THE ROADWAY DESIGN DIVISION SHALL BE CONTACTED TO DETERMINE IF ANY PLAN REVISIONS ARE NEEDED.

(16) THE CONTRACTOR SHALL REVIEW ALL EXISTING PERMITS TO ENSURE THAT WORK AT PERMITTED SITES DOES NOT EXCEED EXPIRATION DATE. IF WORK IS GOING TO BE CONTINUED AFTER EXPIRATION DATES, THE CONTRACTOR SHALL CONTACT THE TDOT PROJECT RESPONSIBLE PARTY TO COMMENCE PERMIT RENEWAL PROCESS.

(17) ALL WATER QUALITY PERMITS SHALL BE POSTED NEAR THE MAIN ENTRANCE OF THE CONSTRUCTION SITE ACCESSIBLE TO THE PUBLIC. THE NAME, COMPANY NAME, EMAIL ADDRESS, TELEPHONE NUMBER AND ADDRESS OF THE PROJECT SITE OWNER, OPERATOR, OR A LOCAL CONTACT PERSON WITH A BRIEF DESCRIPTION OF THE PROJECT SHALL ALSO BE POSTED. IF POSTING THIS INFORMATION NEAR A MAIN ENTRANCE IS INFEASIBLE, THE INFORMATION SHALL BE PLACED IN A PUBLICLY ACCESSIBLE LOCATION NEAR WHERE THE CONSTRUCTION IS ACTIVELY UNDERWAY AND MOVED AS NECESSARY. THIS LOCATION SHALL BE POSTED AT THE CONSTRUCTION SITE. ALL POSTINGS SHALL BE MAINTAINED IN LEGIBLE CONDITION.

SUPPORT ACTIVITIES

(18) MATERIALS AND STAGING AREAS SHALL NOT AFFECT ANY WATERS OF THE STATE/U.S. UNLESS THESE AREAS ARE SPECIFICALLY COVERED BY ENVIRONMENTAL PERMITS, OBTAINED SOLELY BY THE CONTRACTOR. THE CONTRACTOR SHALL REVIEW ALL EXISTING PERMITS TO ENSURE THAT WORK AT PERMITTED SITES DOES NOT EXCEED EXPIRATION DATES. IF WORK IS GOING TO BE CONTINUED AFTER EXPIRATION DATES, THE CONTRACTOR SHALL CONTACT THE TDOT PROJECT RESPONSIBLE PARTY TO COMMENCE PERMIT RENEWAL PROCESS.

ENVIRONMENTAL

(20) EXCEPT AS OTHERWISE SPECIFIED, THERE ARE NO KNOWN SPECIAL ENVIRONMENTAL FACTORS PRESENT ON THIS PROJECT THAT INDICATE A NEED FOR SEASONAL LIMITATIONS ON THE CLEARING, GRUBBING, EXCAVATION, GRADING, CUTTING OR FILLING OPERATIONS OR ON THE TOTAL AREA OF EXPOSED SOIL.

ENVIRONMENTAL SPECIAL NOTES

ENVIRONMENTAL

(1) STAFF FROM THE TDOT ENVIRONMENTAL DIVISION COMPLIANCE AND FIELD SERVICES OFFICE SHALL BE INVITED TO ALL PRE-CONSTRUCTION MEETINGS.

(2) ALL WATER QUALITY FEATURES WILL BE CROSSED BY EITHER ATTACHING CONDUIT TO BRIDGES OR INSTALLING CONDUIT OVER OR UNDER EXISTING CULVERTS.

(3) WETLAND CROSSING AT PERMITTED LOCATIONS: THE CONTRACTOR SHALL KEEP WETLAND DISTURBANCE TO A MINIMUM AND AS NEEDED FOR UTILITY INSTALLATION. THE DISTURBED AREA SHALL BE RESTORED TO EXISTING CONDITIONS AND COMPACTED CLAY PLUGS SHALL BE USED AT THE ENDS OF THE PROPOSED TRENCH TO PREVENT DRAINING OF THE WETLAND.

(4) UTILITY CROSSINGS ON STREAMS AT THE PERMITTED LOCATIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH TDOT STANDARDS AND NO WORK SHALL BE DONE IN FLOWING WATER. THE DISTURBED AREA SHALL BE RESTORED TO EXISTING CONDITIONS.

(5) FOR HORIZONTAL DIRECTIONAL DRILLING, PLEASE KEEP THE ENTRY AND EXIT LOCATIONS AT LEAST 50 FEET FROM THE STREAM BANK OR WETLAND MARGINS. PLEASE ALLOW AT LEAST A 50-FOOT BUFFER FROM ANY ENVIRONMENTAL FEATURE.

(6) ANY TEMPORARY IMPACT TO ENVIRONMENTAL FEATURES, EITHER BY TEMPORARY MATS OR EQUIPMENT STAGING OR ANY NON-PERMITTED CROSSING, IS PROHIBITED.

ECOLOGY

(2) STAFF FROM THE TDOT ENVIRONMENTAL DIVISION OR A DESIGNEE SHALL ADVISE THE CONTRACTOR DURING THE PRECONSTRUCTION MEETING WHEN ENVIRONMENTAL DIVISION PERSONNEL OR A DESIGNATED CONSULTANT WILL NEED TO BE ONSITE FOR WORK BEING DONE WHICH COULD AFFECT WATERS OF THE STATE/U.S. OR SPECIES.

(3) STAFF FROM THE TDOT ENVIRONMENTAL DIVISION OR A DESIGNEE SHALL ATTEND THE PRE-CONSTRUCTION MEETING FOR ALL PROJECTS WHICH HAVE THREATENED OR ENDANGERED SPECIES OR CRITICAL HABITAT PROXIMAL TO SCHEDULED WORK. THIS WILL PROVIDE THE OPPORTUNITY TO ENSURE THAT PERSONNEL INCLUDING THE CONTRACTOR'S PERSONNEL AND SUBCONTRACTORS ARE MADE AWARE OF THE NECESSARY PRECAUTIONS THAT MUST BE FOLLOWED.

(4) ALL PROJECTS WITH LEGALLY PROTECTED SPECIES OR CRITICAL HABITAT IDENTIFIED SHALL HAVE MEASURES IN PLACE TO CONTAIN CONCRETE DUST, CEMENT DUST AND ALL OTHER MATERIALS. THESE MATERIALS ARE NOT ALLOWED TO ENTER WATERS OF THE STATE/U.S.

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ENVIRONMENTAL NOTES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	2B2
PS&E	2025	R-NH-385(33)	2B2

SCOPE OF WORK

CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR COMPLETE CONSTRUCTION AND TESTING OF "TDOT SMARTWAY MEMPHIS" INTELLIGENT TRANSPORTATION SYSTEM (ITS) AS SHOWN IN CONTRACT DOCUMENTS.

THIS PROJECT CONSISTS OF THE CONSTRUCTION, INSTALLATION, AND TESTING OF NEW CONDUIT, PULL BOXES, FIBER OPTIC CABLE, POWER, 16 CLOSED CIRCUIT TELEVISION (CCTV) CAMERAS, 3 DYNAMIC MESSAGE SIGN (DMS), 7 RADAR DETECTION SYSTEMS (RDS), 4 ENVIRONMENTAL SENSOR SYSTEMS (ESS), AND 1 ITS COMMUNICATIONS HUB BUILDING ALONG SR-385 IN SHELBY COUNTY AS PART OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION (TDOT) REGION 4 SMARTWAY ITS EXPANSION. THE TOTAL PROJECT LENGTH IS APPROXIMATELY 8.863 MILES AND INCLUDES BUT IS NOT LIMITED TO FURNISHING AND INSTALLING CCTV POLES, DMS STRUCTURES, CABINETS, FOUNDATIONS, GUARDRAIL, CONDUIT, FIBER OPTIC CABLE NETWORKS, ELECTRICAL POWER SERVICE, AND OTHER REQUIRED VENDOR HARDWARE/SOFTWARE NECESSARY TO COMPLETE A FULLY FUNCTIONING SYSTEM.

ALL EQUIPMENT PROVIDED SHALL COMPLY WITH APPLICABLE INDUSTRY-APPROVED STANDARDS FOR SUBSYSTEMS AND COMMUNICATIONS NETWORKS. USE OF APPROVED INDUSTRY STANDARDS AND NATIONAL TRANSPORTATION COMMUNICATIONS FOR ITS PROTOCOLS (NTCIP) SHALL BE REQUIRED FOR DMS, CCTV, RDS, AND ESS DEVICES.

ALL HARDWARE, FIRMWARE, AND SOFTWARE NECESSARY TO CONTROL, CONVERT, FORMAT, DISPLAY, NETWORK, AND DISTRIBUTE DIGITAL VIDEO AND OTHER DATA SIGNALS SHALL BE PROVIDED UNDER THIS CONTRACT. ALL HARDWARE, FIRMWARE, AND SOFTWARE NECESSARY TO CONTROL, CONFIGURE, AND MONITOR ALL FIELD AND CONTROL CENTER DEVICES AND SYSTEMS SHALL BE PROVIDED UNDER THIS CONTRACT. THIS CONTRACT PROVIDES FOR A TOTAL "TURN-KEY" SOLUTION INCLUDING REQUIRED INTEGRATION EFFORTS. ALL DEVICES SHALL BE INTEGRATED INTO THE CENTRAL SOFTWARE AS PART OF THIS CONTRACT.

SEE THE SPECIAL PROVISIONS IN THE CONTRACT DOCUMENTS FOR MORE INFORMATION ON THE MATERIAL SPECIFICATIONS, TESTING, ETC.

THE CONTRACTOR IS RESPONSIBLE FOR THE CONFIGURATION AND INTERFACE OF ALL COMMUNICATIONS LINKS TO EXISTING COMMUNICATIONS LINKS. THE COMPLETE SYSTEM MUST BE FULLY INTEGRATED WITH THE SYSTEM CURRENTLY INSTALLED.

ELECTRICAL SERVICE

MEMPHIS LIGHT, GAS, AND WATER (MLGW)

(1) SECONDARY CONDUCTORS WILL BELONG TO THE TENNESSEE DEPARTMENT OF TRANSPORTATION. THE CONTRACTOR SHALL INSTALL THE SECONDARY CONDUCTORS ACCORDING TO THE PLANS AND SPECIFICATIONS AND HAVE IT INSPECTED BY THE STATE ELECTRICAL INSPECTOR. THE CONTRACTOR SHALL RUN THE UNDERGROUND SECONDARY CONDUCTORS TO THE TDOT DEMARCATION POLE OR MLGW'S POLE PER MLGW'S SPECIFICATIONS AND AS DETAILED IN THE PLANS.

(2) CONTRACTOR TO CONTACT MLGW PRIOR TO ANY ELECTRIC WORK BEING DONE IN MLGW'S SERVICE AREA.

(3) FOR OVERHEAD UTILITY SERVICE, THE CONTRACTOR SHALL FURNISH AND INSTALL METER PAN, CONDUIT AND CONDUCTORS UP TO WEATHERHEAD. CONDUCTORS SHALL EXTEND A MINIMUM OF 5 FEET OUT OF WEATHERHEAD FOR UTILITY CONNECTION.

(4) FOR UNDERGROUND SERVICE, THE CONTRACTOR SHALL INSTALL 2" SCHEDULE 80 PVC UP THE MLGW POLE WITHIN 1 FOOT OF THE BOTTOM OF THE TRANSFORMER OR AS DIRECTED BY MLGW. MLGW WILL ATTACH THE CONDUIT TO THEIR POLE WITH A U GUARD. THE CONTRACTOR SHALL INSTALL A MINIMUM OF 2 CONDUIT STRAPS ABOVE THE U-GUARD. CONDUCTORS SHALL EXTEND A MINIMUM OF 5 FEET OUT OF THE CONDUIT FOR UTILITY CONNECTION.

(5) THE LABOR AND MATERIAL REQUIRED TO INSTALL THE SERVICE IS THE RESPONSIBILITY OF THE CONTRACTOR.

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ITS SCOPE OF WORK AND ELECTRICAL SERVICE NOTES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	2C
PS&E	2025	R-NH-385(33)	2C

INTELLIGENT TRANSPORTATION SYSTEM (ITS) LEGEND

SYMBOL	ITEM
— — F (UG) —	EXISTING FIBER LINE CONDUIT
— — P (UG) —	EXISTING ELECTRICAL CONDUIT
— —— P ——	EXISTING OVERHEAD ELECTRICAL
— · · — · · —	EXISTING TDOT ROW
◯	EXISTING POWER POLE
—— F (UG) —	PROPOSED FIBER LINE CONDUIT
—— F ——	PROPOSED STRUCTURE MOUNTED FIBER LINE CONDUIT
— P (UG) ——	PROPOSED ELECTRICAL CONDUIT
—— P ———	PROPOSED OVERHEAD ELECTRICAL
— C (UG) ——	PROPOSED DMS CONDUIT
— C (UG) — —	PROPOSED RDS CABLES
□	EXISTING PULL BOX
PB	PROPOSED PULL BOX, TYPE C
LC	PROPOSED ELECTRICAL LOAD CENTER
■	PROPOSED PULL BOX, TYPE D
◥	PROPOSED PULL BOX, TYPE E
⧓	PROPOSED STRUCTURE MOUNTED PULL BOX
⬡ -	PROPOSED PULL BOX TYPE LABEL (LETTER(S) DENOTE PULL BOX TYPE(S))
⬡ -	EXISTING PULL BOX TYPE LABEL (LETTER(S) DENOTE PULL BOX TYPE(S))
A	PROPOSED CABINET, TYPE A
B	PROPOSED CABINET, TYPE B
C	PROPOSED CABINET, TYPE C
B	EXISTING CABINET, TYPE B
C	EXISTING CABINET, TYPE C
CCTV	EXISTING CLOSED-CIRCUIT TELEVISION (CCTV)
CCTV	PROPOSED CLOSED-CIRCUIT TELEVISION (CCTV)
◯	EXISTING ELECTRICAL DEMARCATION SITE
◨	PROPOSED ELECTRICAL DEMARCATION SITE
DMS	EXISTING DYNAMIC MESSAGE SIGN (DMS)
DMS	PROPOSED DYNAMIC MESSAGE SIGN (DMS)
RDS	EXISTING RADAR DETECTION SYSTEM (RDS)
RDS	PROPOSED RADAR DETECTION SYSTEM (RDS)
ESS	PROPOSED ENVIRONMENTAL SENSOR SYSTEM (ESS)
HAR	EXISTING HIGHWAY ADVISORY RADIO (H.A.R.)
HUB	PROPOSED ITS COMMUNICATIONS HUB BUILDING
	PROPOSED ESS DETECTION ZONES
	ENVIRONMENTAL FEATURES
HVF * HVF	HIGH VISIBILITY CONSTRUCTION FENCE

ABBREVIATIONS

LIST OF ABBREVIATIONS

ACSR	ALUMINIUM CONDUCTOR STEEL-REINFORCED
AQ.	AQUA
ASSY(S).	ASSEMBLY(IES)
AWG	AMERICAN WIRE GAUGE
BK. *	BLACK
BL. *	BLUE
BR.	BROWN
C.C.T.V.	CLOSED-CIRCUIT TELEVISION
COAX.	COAXIAL
COMM.	COMMUNICATIONS
DET.	DETECTOR
D.M.S.	DYNAMIC MESSAGE SIGN
D.O.T.	DEPARTMENT OF TRANSPORTATION
E.O.P.	END OF PROJECT
E.O.T.L.	EDGE OF TRAVEL LANE
E.S.S.	ENVIRONMENTAL SENSOR SYSTEM
F *	FIBER(S)
F.C.C.	FEDERAL COMMUNICATIONS COMMISSION
F.O.	FIBER OPTIC
G.M.	GROUND-MOUNTED
GR. *	GREEN
H.A.R.	HIGHWAY ADVISORY RADIO
H.D.P.E.	HIGH-DENSITY POLYETHYLENE
HEX.	HEXAGONAL
HVF	HIGH VISIBILITY FENCE
INFO.	INFORMATION
I.P. *	INTERNET PROTOCOL
ITS	INTELLIGENT TRANSPORTATION SYSTEM
KVA	KILOVOLT-AMPERE
L.D.	LOWERING DEVICE
N.E.M.A.	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
N.T.S.	NOT TO SCALE
OR.	ORANGE
P.	POWER
P.B. *	PULL BOX
PDMT	PAD MOUNT
P.T.Z.	PAN, TILT AND ZOOM
RCV.	RECEIVE
RD. *	RED, ROAD
R.D.S.	RADAR DETECTION SYSTEM
R.G.S.	RIGID GALVANIZED STEEL
REFL.	REFLECTIVE
RWIS	ROAD WEATHER INFORMATION SYSTEM
SCH.	SCHEDULE
SL.	SLATE
S.M.	SINGLE MODE
STR	STREAM
T.M.C.	TRANSPORTATION MANAGEMENT CENTER
S.P.	SPECIAL PROVISIONS
U.L.	UNITED LABORATORIES
URD	UNDERGROUND RESIDENTIAL DISTRIBUTION
V	VOLTS
V.D.S.	VIDEO DETECTION SYSTEM
VI.	VIOLET
W	WATTS
WH.	WHITE
WTL	WETLAND
WWC	WET WEATHER CONVEYANCE
YL.	YELLOW

ABBREVIATIONS NOTES:

(1) REFER TO STANDARD DRAWING RD-A-1 FOR STANDARD ABBREVIATIONS.

(2) ABBREVIATIONS MARKED WITH AN ASTERISK (*) ARE USED FOR LISTED TERMS AND NOT TERMS FOR DUPLICATE ABBREVIATIONS LISTED ON STANDARD DRAWING RD-A-1.

ITS LEGEND NOTE

ALL DEVICE SYMBOLS ARE FOR GRAPHICAL REPRESENTATION ONLY AND ARE NOT TO SCALE. CENTER OF DEVICE IS INDICATED ON PLANS BY STATION AND OFFSET.

CABLE/CONDUIT LABELS

EXAMPLE	DESCRIPTION
COMM. CONDUIT BANK, TYPE 4 (290 L.F.)	INDICATES TYPE 4 COMMUNICATIONS CONDUIT BANK TO CONTAIN FOUR (4) HIGH-DENSITY POLYETHYLENE CONDUITS. LENGTH OF EACH CONDUIT IS 290 LINEAR FEET.
1 - 2" CONDUIT W/ BANK (290 L.F.)	INDICATES ONE (1) 2" CONDUIT TO BE INSTALLED IN SAME TRENCH AS COMMUNICATIONS CONDUIT BANK. LENGTH OF CONDUIT IS 290 LINEAR FEET.
F.O. CABLE, 144 F (490 L.F.)	INDICATES FIBER OPTIC CABLE WITH 144 FIBERS TO BE INSTALLED IN COMMUNICATIONS CONDUIT OR COILED INSIDE PULL BOX. LENGTH OF FIBER OPTIC CABLE IS 490 LINEAR FEET.
2 - #6 AWG POWER (365 L.F.)	INDICATES TWO (2) #6 AMERICAN WIRE GAUGE POWER CABLES TO BE INSTALLED IN CONDUIT OR COILED INSIDE PULL BOX. LENGTH OF EACH POWER CABLE IS 365 LINEAR FEET.
1 - #6 AWG GROUND (365 L.F.)	INDICATES ONE (1) #6 AMERICAN WIRE GAUGE GROUND CABLE TO BE INSTALLED IN CONDUIT OR COILED INSIDE PULL BOX. LENGTH OF EACH GROUND CABLE IS 365 LINEAR FEET.

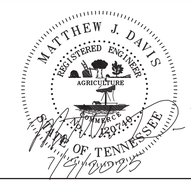
CONDUIT/CABLE LABEL NOTES:

(1) CABLE/CONDUIT LENGTHS ARE APPROXIMATE ONLY. PAYMENT BASED ON ACTUAL LENGTHS OF CABLE/CONDUIT INSTALLED.

R	4	A	-	S	R	3	8	5	-	0	0	2	.	5	E
Region		Device Type	-	Location A (Route)					-	Location B (MM & Direction)					

Device Type Legend	
A	CCTV 1
B	CCTV 2
E	DMS
G	RDS
J	Demarcation
K	HAR
Y	ESS

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UTILITY OWNERS

UTILITY	OWNER	PHONE NO.	CONTACT	EMAIL	ADDRESS	CITY	STATE	ZIP CODE
POWER GAS WATER	MEMPHIS LIGHT, GAS AND WATER	901-334-8065	MICHAEL TART	mtart@mlgw.org	220 SOUTH MAIN ST.	MEMPHIS	TN	38103

STATE OF TENNESSEE
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ITS PLANS LEGEND AND ABBREVIATIONS

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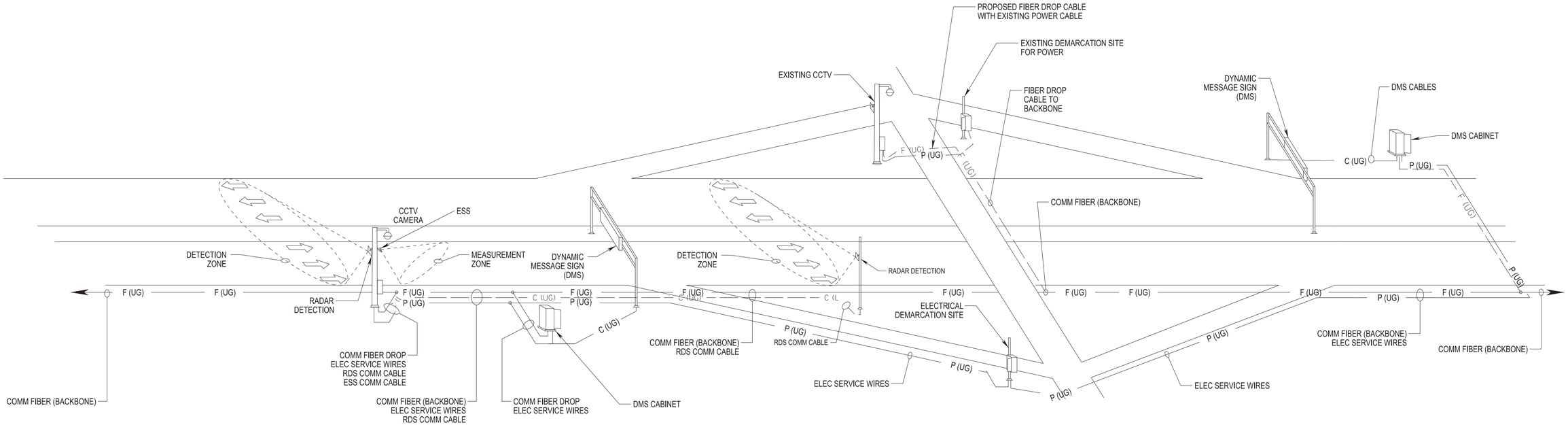
TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	2D
PS&E	2025	R-NH-385(33)	2D

NOTE:

THIS SYSTEM SCHEMATIC IS INTENDED AS A HIGH LEVEL OVERVIEW ONLY. REFER TO THE TECHNICAL SPECIAL PROVISIONS AND OTHER PLANS SHEETS FOR SPECIFIC DETAILS AND QUANTITIES.

LEGEND

F (UG)	COMM FIBER (BACKBONE)
F (UG)	COMM FIBER DROP
	FIBER SPLICE CLOSURE
C (UG)	RDS COMM CABLE
C (UG)	DMS CABLES
P (UG)	ELEC SERVICE WIRES



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FIELD EQUIPMENT OVERVIEW

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TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	2E
PS&E	2025	R-NH-385(33)	2E

CLOSED-CIRCUIT TELEVISION (C.C.T.V.) CAMERA MOUNTING TABLE

DEVICE NO.	SHEET NO.	ROADWAY	STA.	LT. / RT.	DIST. FROM E.O.T.L. (FT)	POLE HT. (FT)	CAMERA MOUNTING HT. AGL (FT)	LOWERING DEVICE (EA.)	NOTES
CCTV CAMERA R4A-SR385-008.3W (SITE 1)	10	SR-385	171+59	LT.	30'	80'	80'	1	
CCTV CAMERA R4B-SR385-008.3W (SITE 1)	10	SR-385	171+59	LT.	30'	80'	20'	1	
CCTV CAMERA R4A-SR385-009.4E (SITE 2)	15	SR-385	231+79	RT.	20'	50'	50'	1	
CCTV CAMERA R4A-SR385-010.4E (SITE 3)	19	SR-385	287+45	RT.	30'	80'	80'	1	
CCTV CAMERA R4B-SR385-010.4E (SITE 3)	19	SR-385	287+45	RT.	30'	80'	20'	1	
CCTV CAMERA R4A-SR385-011.5W (SITE 4)	23	SR-385	340+57	LT.	40'	50'	50'	1	
CCTV CAMERA R4A-SR385-012.5W (SITE 5)	27	SR-385	393+40	LT.	195'	80'	80'	1	
CCTV CAMERA R4B-SR385-012.5W (SITE 5)	27	SR-385	393+40	LT.	195'	80'	20'	1	
CCTV CAMERA R4A-SR385-013.4E (SITE 7)	31	SR-385	439+63	RT.	30'	50'	50'	1	
CCTV CAMERA R4A-SR385-014.0E (SITE 8)	33	SR-385	471+50	RT.	20'	50'	50'	1	
CCTV CAMERA R4A-SR385-014.6E (SITE 9)	35	SR-385	500+96	RT.	40'	80'	80'	1	
CCTV CAMERA R4B-SR385-014.6E (SITE 9)	35	SR-385	500+96	RT.	40'	80'	20'	1	
CCTV CAMERA R4A-SR385-015.3E (SITE 10)	39	SR-385	543+12	RT.	40'	80'	80'	1	
CCTV CAMERA R4B-SR385-015.3E (SITE 10)	39	SR-385	543+12	RT.	40'	80'	20'	1	
CCTV CAMERA R4A-SR385-015.6E (SITE 11)	40	SR-385	557+37	RT.	60' FROM I-269 E.O.T.L.	80'	80'	1	
CCTV CAMERA R4B-SR385-015.6E (SITE 11)	40	SR-385	557+37	RT.	60' FROM I-269 E.O.T.L.	80'	20'	1	

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CCTV
MOUNTING TABLE

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TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	2E1
PS&E	2025	R-NH-385(33)	2E1

RADAR DETECTION SYSTEM (R.D.S.) MOUNTING TABLE

DEVICE NO.	SHEET NO.	ROADWAY	STA.	LT. / RT.	DIST. BEHIND E.O.T.L. (FT)	POLE HT. (FT)	NO. OF LANES DETECTED	MOUNTING HEIGHT ABOVE ROAD (FT)	NOTES
RDS R4G-SR385-008.3W	10	SR-385	170+35	LT.	20'	30'	4	25'	
RDS R4G-SR385-009.4E	15	SR-385	231+79	RT.	20'	50'	4	25'	RDS R4G-SR385-009.4E IS CO-LOCATED WITH CCTV CAMERA R4A-SR385-009.4E (SITE 2)
RDS R4G-SR385-010.4E	19	SR-385	288+30	RT.	20'	30'	4	25'	
RDS R4G-SR385-011.5W	23	SR-385	340+57	LT.	40'	50'	4	33'	RDS R4G-SR385-011.5W IS CO-LOCATED WITH CCTV CAMERA R4A-SR385-011.5W (SITE 4)
RDS R4G-SR385-013.4E	31	SR-385	439+63	RT.	30'	50'	4	30'	RDS R4G-SR385-013.4E IS CO-LOCATED WITH CCTV CAMERA R4A-SR385-013.4E (SITE 7)
RDS R4G-SR385-014.0E	33	SR-385	471+50	RT.	20'	50'	4	25'	RDS R4G-SR385-014.0E IS CO-LOCATED WITH CCTV CAMERA R4A-SR385-014.0E (SITE 8)
RDS R4G-SR385-014.6E	35	SR-385	501+82	RT.	20'	30'	4	25'	

ENVIRONMENTAL SENSOR SYSTEM (ESS) MOUNTING TABLE

DEVICE NO.	SHEET NO.	ROADWAY	STA.	LT. / RT.	DIST. BEHIND E.O.T.L. (FT)	MOUNTING HEIGHT ABOVE ROAD (FT)	INSTALLATION ANGLE FROM HORIZONTAL	NOTES
ESS R4Y-SR385-009.4E	15	SR-385	231+79	RT.	20'	26'	45°	ESS R4Y-SR385-009.4E IS CO-LOCATED WITH CCTV CAMERA R4A-SR385-009.4E (SITE 2). ESS SHALL INCLUDE PAVEMENT TEMPERATURE AND PRECIPITATION SENSORS.
ESS R4Y-SR385-011.5W	23	SR-385	340+57	LT.	40'	40'	41°	ESS R4Y-SR385-011.5W IS CO-LOCATED WITH CCTV CAMERA R4A-SR385-011.5W (SITE 4). ESS SHALL INCLUDE PAVEMENT TEMPERATURE AND PRECIPITATION SENSORS.
ESS R4Y-SR385-013.4E	31	SR-385	439+63	RT.	30'	36'	45°	ESS R4Y-SR385-013.4E IS CO-LOCATED WITH CCTV CAMERA R4A-SR385-013.4E (SITE 7). ESS SHALL INCLUDE PAVEMENT TEMPERATURE AND PRECIPITATION SENSORS.
ESS R4Y-SR385-015.3E	39	SR-385	543+12	RT.	40'	40'	41°	ESS R4Y-SR385-015.3E IS CO-LOCATED WITH CCTV CAMERA R4A-SR385-015.3E (SITE 10). ESS SHALL INCLUDE PAVEMENT TEMPERATURE AND PRECIPITATION SENSORS.

NOTES:

1. RADAR DETECTION SYSTEM MOUNTING HEIGHTS ARE BASED ON THE SENSYS NETWORKS RTMS ECHO STANDARD. IF A DIFFERENT DEVICE IS USED, THE CONTRACTOR SHALL ADJUST THESE PARAMETERS AS RECOMMENDED BY THE MANUFACTURER. RDS SHALL BE PROPERLY CALIBRATED AND CONFIGURED AS DETAILED IN THE SPECIAL PROVISION.

2. ENVIRONMENTAL SENSOR SYSTEM MOUNTING HEIGHTS AND INSTALLATION ANGLES ARE BASED ON VAISALA SENSORS. IF A DIFFERENT MANUFACTURER IS USED, THE CONTRACTOR SHALL ADJUST THESE PARAMETERS AS RECOMMENDED BY THE MANUFACTURER.

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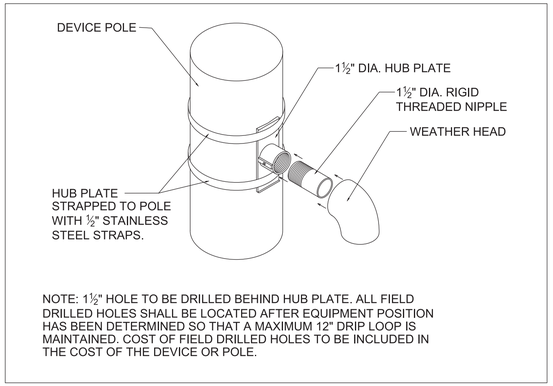
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RDS AND ESS
MOUNTING TABLE

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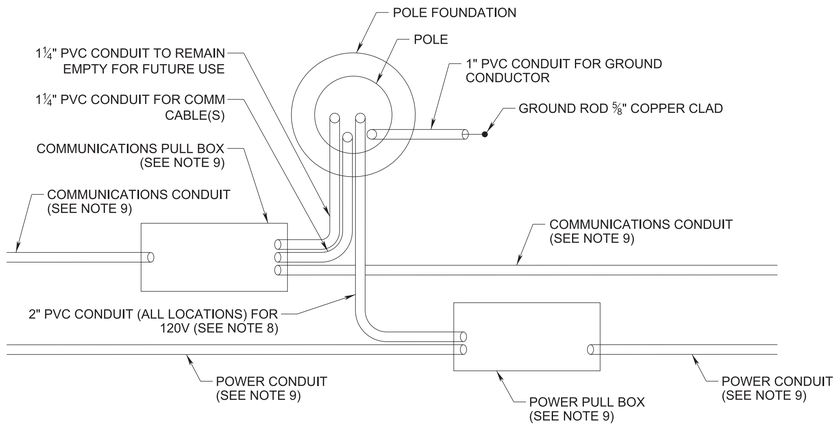
TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	2F
PS&E	2025	R-NH-385(33)	2F



NOTE: 1½" HOLE TO BE DRILLED BEHIND HUB PLATE. ALL FIELD DRILLED HOLES SHALL BE LOCATED AFTER EQUIPMENT POSITION HAS BEEN DETERMINED SO THAT A MAXIMUM 12" DRIP LOOP IS MAINTAINED. COST OF FIELD DRILLED HOLES TO BE INCLUDED IN THE COST OF THE DEVICE OR POLE.

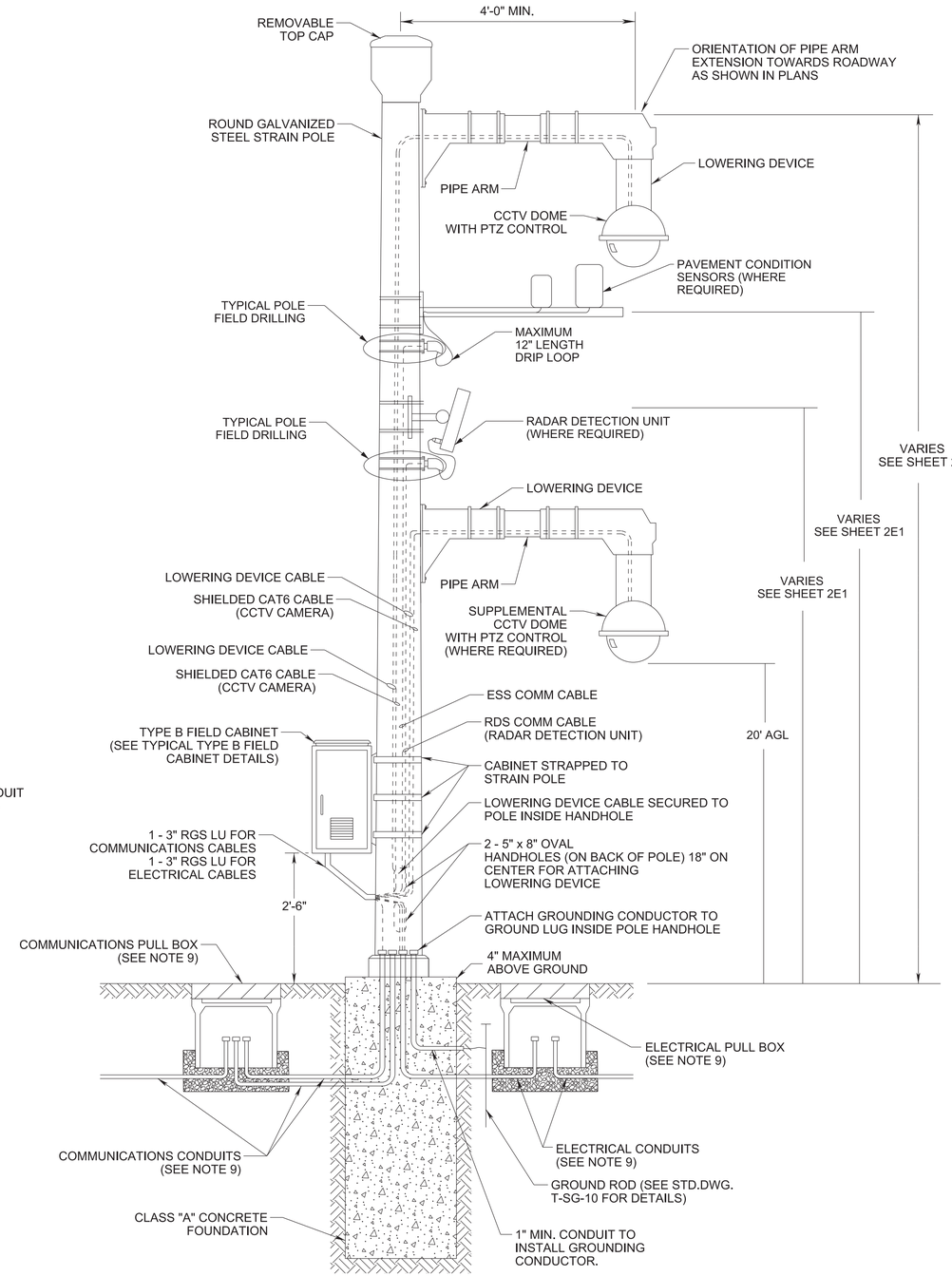
TYPICAL POLE FIELD DRILLING

N.T.S.



TYPICAL CONDUIT AT NEW POLE FOUNDATIONS

N.T.S.



TYPICAL CCTV INSTALLATION
WITH CAMERA LOWERING DEVICE

N.T.S.

GENERAL NOTES:

(1) ARRANGEMENT SHOWN IS CONCEPTUAL. ALL COMPONENTS SHOWN SHALL BE LOCATED IN THE FIELD AT THE DIRECTION OF THE PROJECT ENGINEER AND IN ACCORDANCE WITH THE DEVICE ORIENTATION DIAGRAMS. ELECTRICAL SERVICE AND CCTV MAIN POWER PANEL NOT SHOWN. ARRANGEMENT OF DEVICES ON POLE SHALL ALLOW FOR CLEAR LOWERING OF THE CAMERA ASSEMBLY.

(2) SEE CCTV MOUNTING TABLE FOR CAMERA QUANTITY, LOCATION, AND MOUNTING HEIGHT.

(3) SEE DEVICE ORIENTATION DIAGRAMS FOR CAMERA POLE DEVICE MOUNTING ORIENTATION.

(4) ELECTRICAL SERVICE, METER, SAFETY SWITCHES, AND WOOD SERVICE POLE AND/OR SUPPORT RACK NOT SHOWN. WHERE REQUIRED BY THE PLANS, CONTRACTOR SHALL INSTALL NEW SERVICE AT LOCATION DIRECTED BY THE PROJECT ENGINEER. SEE TECHNICAL SPECIFICATIONS AND DETAIL SHEETS FOR ADDITIONAL INFORMATION.

(5) ALL CONDUCTORS AND CABLES FOR CCTV AND RDS EQUIPMENT SHALL BE RUN INSIDE THE CCTV CAMERA POLE. APPROPRIATE STRAIN RELIEF SHALL BE PROVIDED.

(6) SEE ELECTRICAL SERVICE DIAGRAM FOR GROUNDING CONNECTION TO GROUND WELL.

(7) THE CONTRACTOR SHALL SUBMIT FOUR (4) SETS OF LAYOUT/SHOP DRAWINGS OF THE POLE AND ITS COMPONENTS (INCLUDING THE PLAN OF ATTACHMENT) TO TDOT STRUCTURES FOR REVIEW AND APPROVAL. TWO (2) EXTRA SETS SHALL BE SUBMITTED TO THE ENGINEER. ALL DRAWINGS SHALL BE STAMPED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF TENNESSEE.

(8) ALL EQUIPMENT CONNECTIONS SHALL BE MADE ACCORDING TO MANUFACTURER'S RECOMMENDATIONS AND APPROVED BY THE ENGINEER.

(9) CONDUIT AND PULL BOXES AS SPECIFIED AND TABULATED ON THE LAYOUT SHEETS.

(10) BOND RGS CONDUIT TO POLE GROUND ROD.

(11) LOWERING DEVICE CABLES SHALL NOT COME INTO CONTACT WITH ITS EQUIPMENT CABLES OR EACH OTHER.

(12) IT IS THE CONTRACTOR'S RESPONSIBILITY TO KEEP ALL CABLES SEPARATE, AND ADD NECESSARY STRAIN RELIEF OF CABLES WITHIN POLE. ADDITIONAL HAND HOLES THAT MAY BE NEEDED TO ACCOMPLISH THIS SHALL BE SUBMITTED WITH POLE SHOP DRAWINGS.

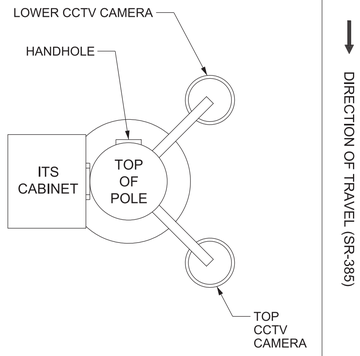
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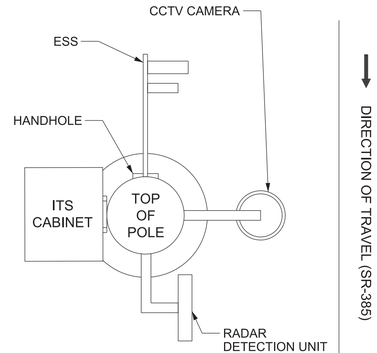
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DEPARTMENT OF TRANSPORTATION

TYPICAL CCTV, RDS, AND ESS DETAILS

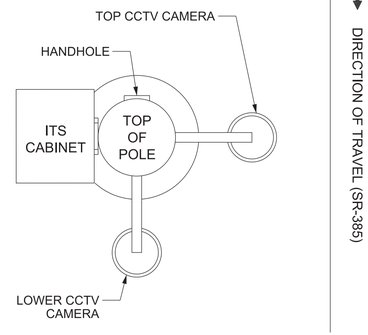
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ROW	2022	NH-385(33)	2F1
PS&E	2025	R-NH-385(33)	2F1



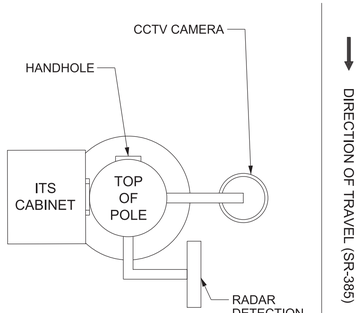
DEVICE ORIENTATION DIAGRAM
(SITES 1, 3, AND 9)
N.T.S.



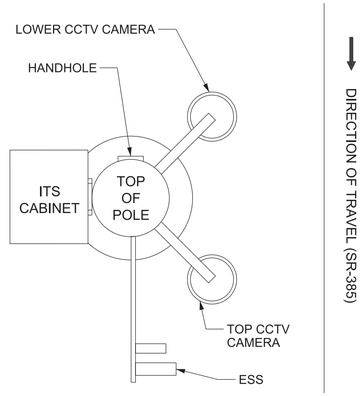
DEVICE ORIENTATION DIAGRAM
(SITES 2, 4, AND 7)
N.T.S.



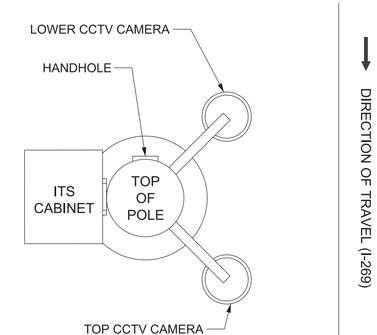
DEVICE ORIENTATION DIAGRAM
(SITE 5)
N.T.S.



DEVICE ORIENTATION DIAGRAM
(SITE 8)
N.T.S.



DEVICE ORIENTATION DIAGRAM
(SITE 10)
N.T.S.



DEVICE ORIENTATION DIAGRAM
(SITE 11)
N.T.S.

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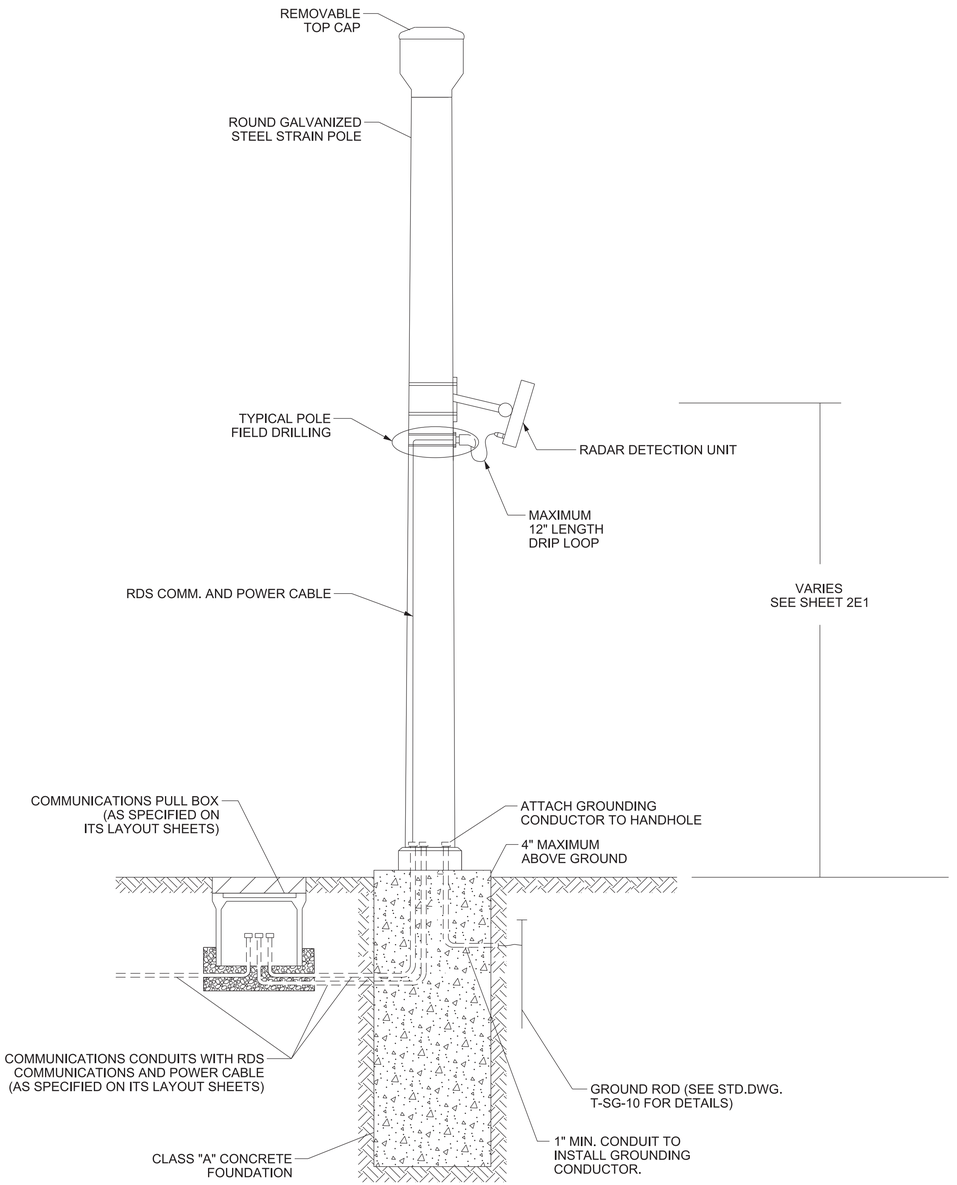


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DEPARTMENT OF TRANSPORTATION

DEVICE ORIENTATION DIAGRAMS

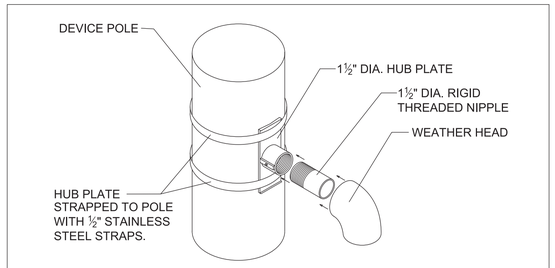
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TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	2F2
PS&E	2025	R-NH-385(33)	2F2



TYPICAL STAND ALONE RDS INSTALLATION

N.T.S.



NOTE: 1½" HOLE TO BE DRILLED BEHIND HUB PLATE. ALL FIELD DRILLED HOLES SHALL BE LOCATED AFTER EQUIPMENT POSITION HAS BEEN DETERMINED SO THAT A MAXIMUM 12" DRIP LOOP IS MAINTAINED. COST OF FIELD DRILLED HOLES TO BE INCLUDED IN THE COST OF THE DEVICE OR POLE.

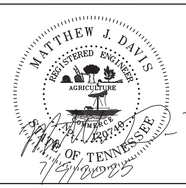
TYPICAL POLE FIELD DRILLING

N.T.S.

NOTES:

1. THE CONTRACTOR SHALL SUBMIT FOUR (4) SETS OF LAYOUT/SHOP DRAWINGS OF THE POLE AND ITS COMPONENTS (INCLUDING THE PLAN OF ATTACHMENT) TO TDOT STRUCTURES FOR REVIEW AND APPROVAL. TWO (2) EXTRA SETS SHALL BE SUBMITTED TO THE ENGINEER. ALL DRAWINGS SHALL BE STAMPED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF TENNESSEE.
2. ALL EQUIPMENT CONNECTIONS SHALL BE MADE ACCORDING TO MANUFACTURER'S RECOMMENDATIONS AND APPROVED BY THE ENGINEER.
3. CONDUIT AND PULL BOXES AS SPECIFIED AND TABULATED ON THE LAYOUT SHEETS.

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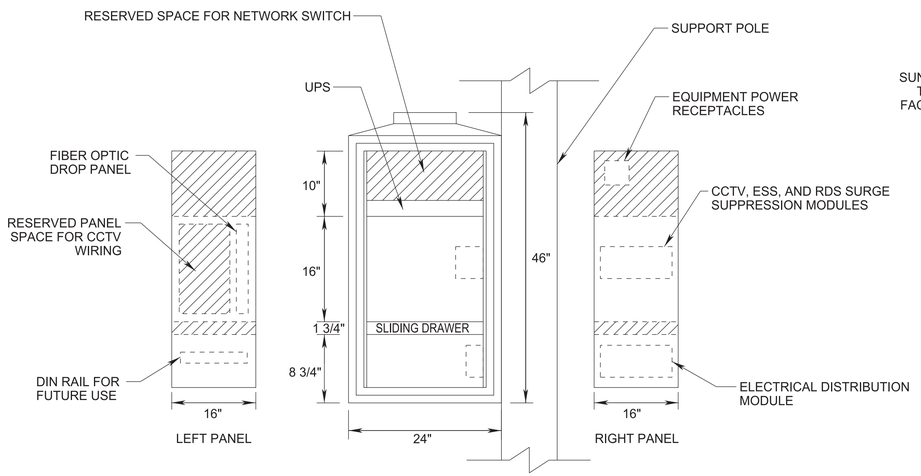


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STAND ALONE RDS DETAILS

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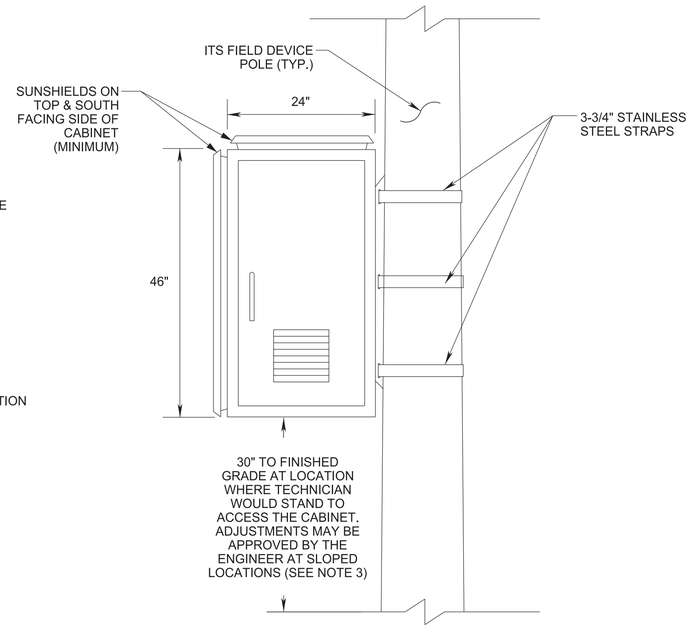
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ROW	2022	NH-385(33)	2F3
PS&E	2025	R-NH-385(33)	2F3



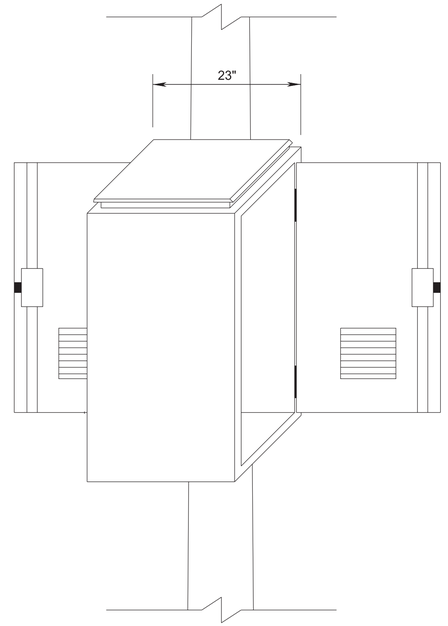
NOTES:

1. ALL DIMENSIONS AND SCALE ARE APPROXIMATE.

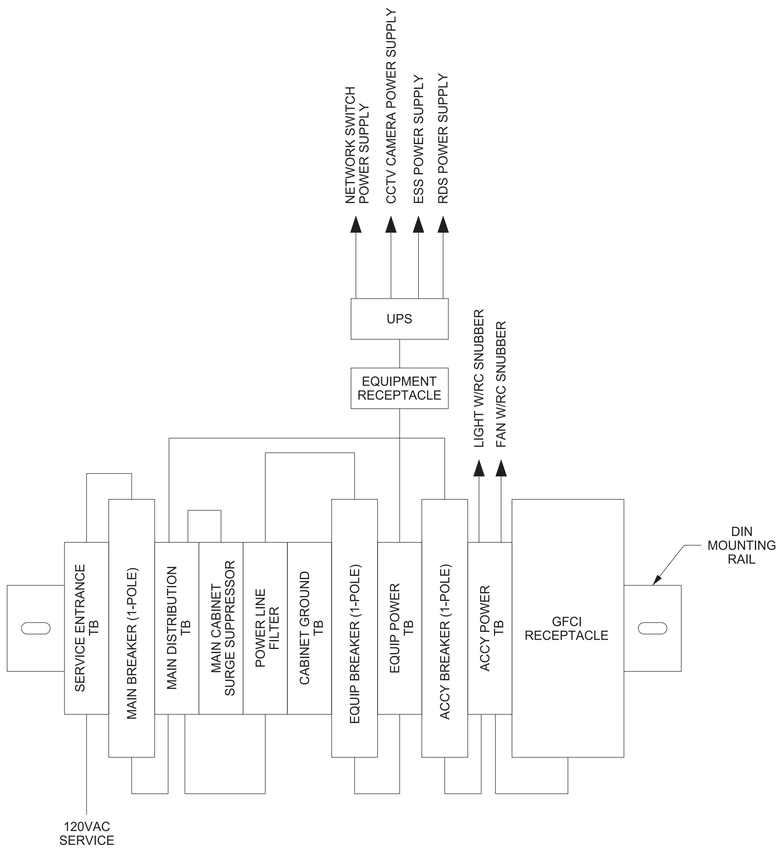
TYPE "B" FIELD CABINET LAYOUT
N.T.S.



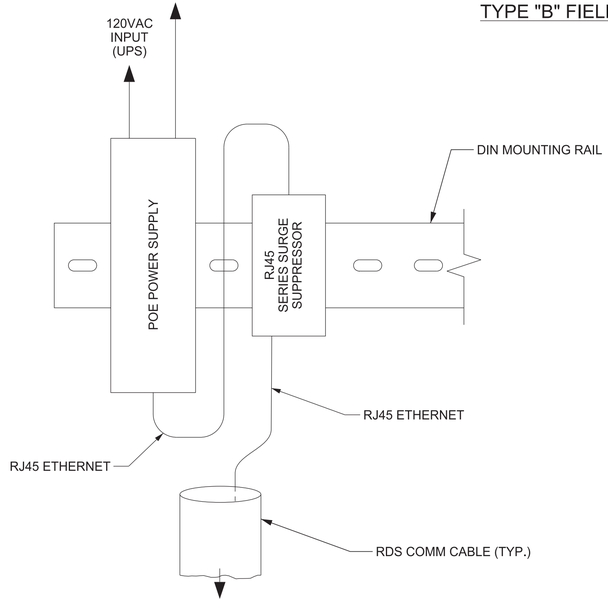
SIDE VIEW



FRONT VIEW

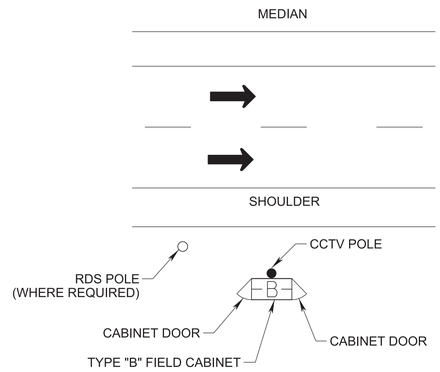


ELECTRICAL DISTRIBUTION MODULE



HEADEND RDS COMMUNICATIONS WIRING MODULE

TYPE "B" FIELD CABINET (46" x 24" x 23")
N.T.S.



DETAIL: PLAN VIEW OF TYPE "B" FIELD CABINET ORIENTATION
N.T.S.

NOTES:

1. CABINETS SHALL BE LABELED "TDOT ITS" WITH DEVICE NAME, TYPE, AND NUMBER. CABINET DIMENSIONS ARE NOMINAL MINIMUMS. SEE SPECIAL PROVISIONS FOR MORE CABINET DETAILS.
2. SUBMIT ANY VARIATION OF THE RDS WIRING MODULE TO THE ENGINEER FOR APPROVAL.
3. WOOD DECK MAY BE REQUIRED ON SLOPED AREAS TO PROVIDE 30" DIMENSION TO THE BOTTOM OF THE CABINET. PROPOSED DECK SOLUTION TO BE PROVIDED TO THE ENGINEER FOR APPROVAL. DECK TO BE PAID FOR AS PART OF ITEM 725-20.10. SEE TYPICAL MAINTENANCE WORK PAD DETAILS SHEET FOR ADDITIONAL DETAILS.
4. ELECTRICAL DISTRIBUTION MODULE IS INTENDED AS A BLOCK DIAGRAM. NOT ALL REQUIRED CONDUCTORS/CONNECTIONS ARE SHOWN.

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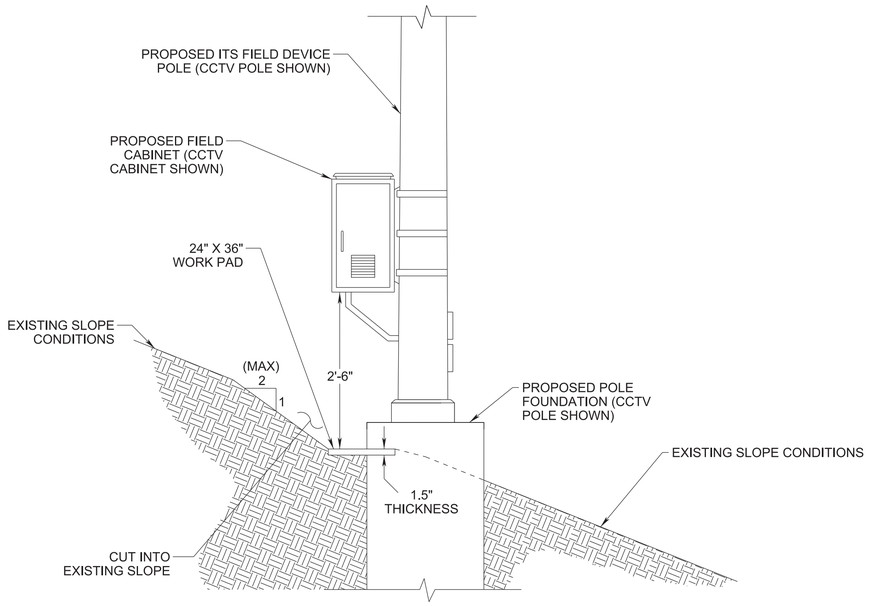


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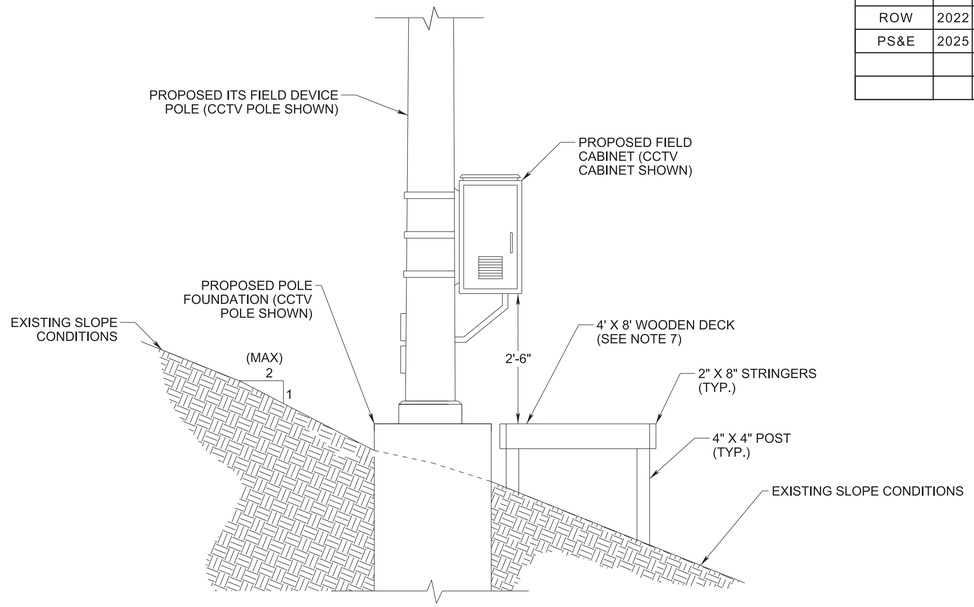
TYPICAL TYPE B FIELD CABINET DETAILS

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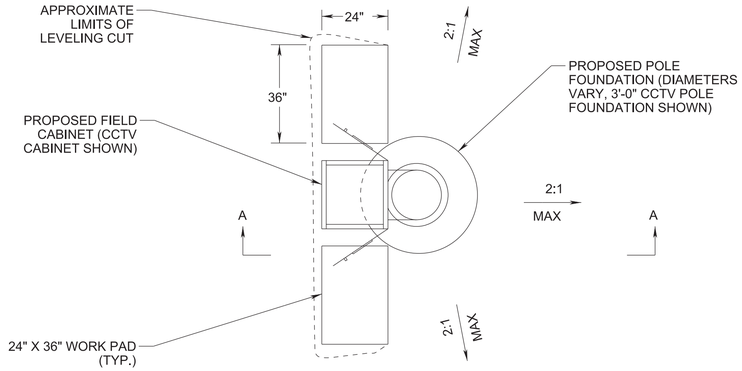
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ROW	2022	NH-385(33)	2F4
PS&E	2025	R-NH-385(33)	2F4



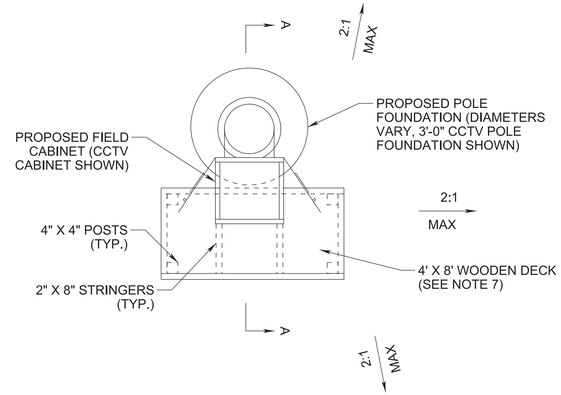
SECTION A-A
N.T.S.



SECTION A-A
N.T.S.



MAINTENANCE WORK PAD DETAIL
PLAN VIEW (CCTV POLE)
N.T.S.



WOODEN DECK DETAIL
PLAN VIEW (CCTV POLE)
N.T.S.

NOTES:

1. WORK PADS SHALL BE PRECAST POLYMER CONCRETE REINFORCED WITH WOVEN FIBERGLASS. TOP SURFACE SHALL HAVE A 0.5 COEFFICIENT OF FRICTION SKID RESISTANT SURFACE. WORK PAD SHALL BE INSTALLED PER MANUFACTURERS SPECIFICATIONS. WORK PAD SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO CONTRACTOR ORDERING MATERIAL.
2. WORK PADS ARE REQUIRED AT EACH POLE-MOUNTED CABINET.
3. COMPACTED BACKFILL WILL BE CONSIDERED AT THE DISCRETION OF THE ENGINEER FOR SLOPE CONDITIONS OF 3:1 (H:V) OR STEEPER.
4. SLOPE CONDITIONS CONSTRUCTED FOR EITHER THE LEVELING CUT OR THE COMPACTED BACKFILL SHALL NOT EXCEED A 2:1 (H:V) SLOPE.
5. IF BACKFILL MATERIAL IS DEEMED NECESSARY BY DIRECTION OF THE ENGINEER, IT SHALL BE A COMBINATION OF EXCAVATED MATERIAL FROM WORK PADS, IF SATISFACTORY, AND BORROW MATERIAL. IF NECESSARY, THIS BORROW MATERIAL SHALL BE INCLUDED IN THE PAY ITEM NUMBER FOR "MINERAL AGGREGATE, TYPE A BASE, GRADING D", PAY ITEM 303-01.
6. ALL DISTURBED AREAS ADJACENT TO THE WORK PAD SHALL HAVE SEED APPLIED AND EROSION CONTROL BLANKET (TYPE II) INSTALLED.
7. THE DECKING SHOULD BE A COMPOSITE MATERIAL SUCH AS TREK, AND ALL WOOD USED MUST BE PRESSURE TREATED.
8. WORK PAD AND/OR DECKING SHALL BE LEVEL IN ALL DIRECTIONS AS BEST AS PRACTICAL.

TYPICAL MAINTENANCE PAD TYPE

DEVICE NO.	SHEET NO.	ROADWAY	STA.	LT. / RT.	DIST. FROM E.O.T.L. (FT)	MAINTENANCE PAD TYPE	NOTES
CCTV CAMERA R4A-SR385-008.3W (SITE 1)	10	SR-385	171+59	LT.	30'	WORK PAD	
CCTV CAMERA R4A-SR385-009.4E (SITE 2)	15	SR-385	231+79	RT.	20'	WOODEN DECK	
CCTV CAMERA R4A-SR385-010.4E (SITE 3)	19	SR-385	287+45	RT.	30'	WORK PAD	
CCTV CAMERA R4A-SR385-011.5W (SITE 4)	23	SR-385	340+57	LT.	40'	WOODEN DECK	
CCTV CAMERA R4A-SR385-012.5W (SITE 5)	27	SR-385	393+40	LT.	195'	WORK PAD	
CCTV CAMERA R4A-SR385-013.4E (SITE 7)	31	SR-385	439+63	RT.	30'	WOODEN DECK	
CCTV CAMERA R4A-SR385-014.0E (SITE 8)	33	SR-385	471+50	RT.	20'	WOODEN DECK	
CCTV CAMERA R4A-SR385-014.6E (SITE 9)	35	SR-385	500+96	RT.	40'	WORK PAD	
CCTV CAMERA R4A-SR385-015.3E (SITE 10)	39	SR-385	543+12	RT.	40'	WORK PAD	
CCTV CAMERA R4A-SR385-015.6E (SITE 11)	40	SR-385	557+37	RT.	60' FROM I-269 E.O.T.L.	WOODEN DECK	

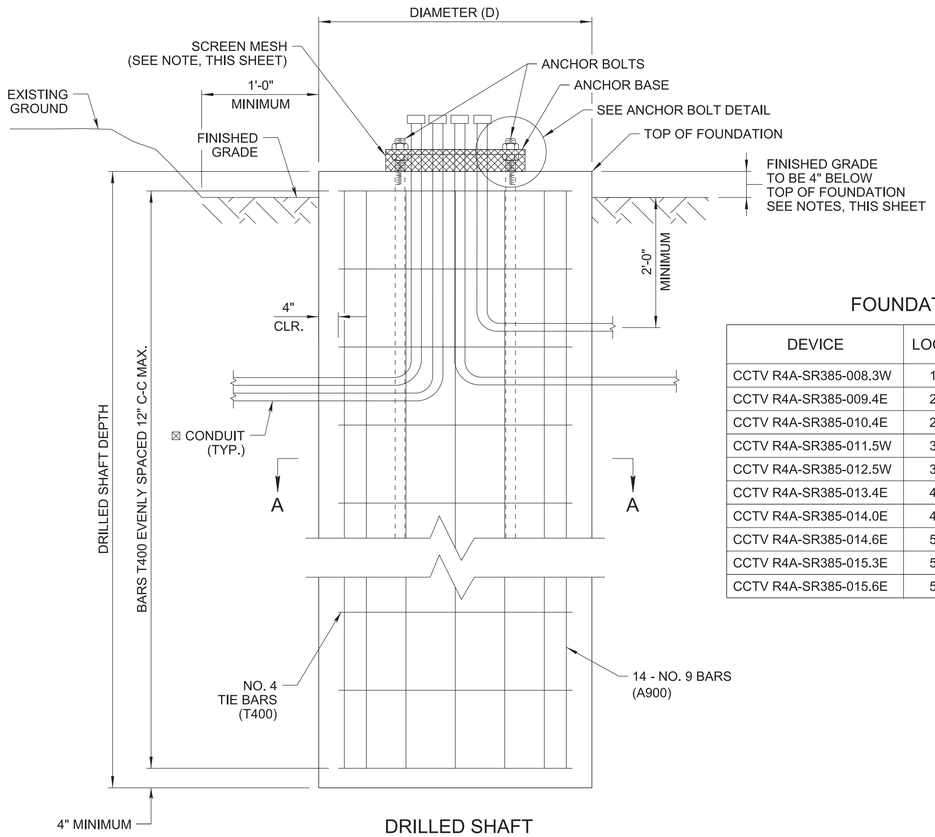
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TYPICAL MAINTENANCE WORK PAD DETAILS

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DRILLED SHAFT

FOUNDATION DETAILS

DEVICE	LOCATION	DRILLED SHAFT	
		DEPTH	DIAMETER
CCTV R4A-SR385-008.3W	171+59	15'-6"	3'-6"
CCTV R4A-SR385-009.4E	231+79	15'-6"	3'-6"
CCTV R4A-SR385-010.4E	287+45	15'-6"	3'-6"
CCTV R4A-SR385-011.5W	340+57	19'-6"	3'-6"
CCTV R4A-SR385-012.5W	393+40	19'-6"	3'-6"
CCTV R4A-SR385-013.4E	439+63	15'-6"	3'-6"
CCTV R4A-SR385-014.0E	471+50	15'-6"	3'-6"
CCTV R4A-SR385-014.6E	500+96	15'-6"	3'-6"
CCTV R4A-SR385-015.3E	543+12	15'-6"	3'-6"
CCTV R4A-SR385-015.6E	557+37	15'-6"	3'-6"

NOTES:

ALL CAMERA POLES SHALL CONFORM TO SP 725.

CAMERA POLES SHALL BE DESIGNED IN ACCORDANCE WITH TDOT SPECIAL PROVISIONS FOR POLES AND STRUCTURES AND AASHTO LRFD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINARIES AND TRAFFIC SIGNALS, 2015 AND LATEST INTERIMS.

CONCRETE: TO BE CLASS "A" (CAST IN PLACE) f'C = 3000 PSI IN ACCORDANCE WITH TDOT STANDARD SPECIFICATIONS SECTION 604.

ANCHOR BOLTS SHALL BE DESIGNED BY THE POLE FABRICATOR.

MATERIAL SPECIFICATIONS - BOLTS:

1.) ANCHOR BOLTS SHALL BE ASTM F1554 GRADE 55 KSI WITH THREADS CONFORMING TO THE REQUIREMENTS OF ASTM A563.

2.) NUTS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A563.

3.) HARDENED STEEL WASHERS SHALL BE ASTM F436.

4.) ALL HARDWARE, EXCEPT STAINLESS STEEL, SHALL BE HOT DIPPED GALVANIZED ACCORDING TO ASTM A153 OR MECHANICALLY GALVANIZED ACCORDING TO ASTM B695.

⊙ SEE "BASE INSTALLATION" IN STRUCTURAL GENERAL NOTES SHEETS FOR MIN. THREAD PROJECTION REQUIREMENTS.

FOR ALL OTHER MATERIAL SPECIFICATIONS AND DETAILS, SEE STRUCTURAL GENERAL NOTES.

ALL CONDUIT BENDS IN POLE FOUNDATION TO BE 6" RADIUS.

DO NOT GROUT BETWEEN BOTTOM OF BASE PLATE AND TOP OF CONCRETE FOUNDATION.

BASE OF POLE SHALL REMAIN OPEN TO PERMIT DRAINAGE AND AIR CIRCULATION. PROVIDE A SECURED SCREEN MESH AROUND THE BASE PLATE TO KEEP DEBRIS FROM ACCUMULATING BETWEEN THE FOUNDATION AND BASE PLATE. FINISHED GROUND PROFILE SHOULD DRAIN WATER AWAY FROM FOUNDATION.

THE COST OF ALL FOUNDATION MATERIALS AND INSTALLATION SHALL BE INCLUDED IN THE PRICE BID FOR CAMERA POLE PAY ITEMS 725-20.01 AND 725-20.02.

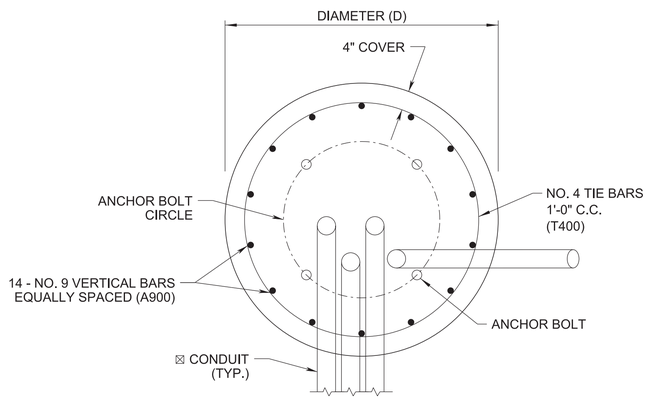
THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND NOTES TO TDOT FOR APPROVAL PRIOR TO FABRICATION.

⊠ FOR ADDITIONAL INFORMATION ON THE NUMBER, TYPE AND LOCATION OF CONDUITS, SEE TYPICAL CCTV AND RDS DETAILS SHEET.

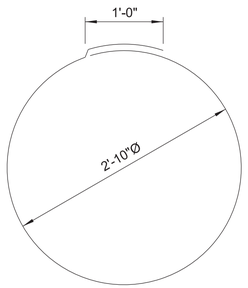
SEE STRUCTURAL GENERAL NOTES SHEETS FOR SOIL FOUNDATION DESIGN NOTES.

WHEN DRILLED SHAFTS ARE LOCATED IN SLOPING GROUND, INCREASE THE EMBEDMENT LENGTH OF SHAFT EQUAL TO THE PORTION OF SHAFT WITH LESS THAN 2.5D HORIZONTAL SOIL COVER (FACE-OF-SHAFT TO FACE-OF-SLOPE).

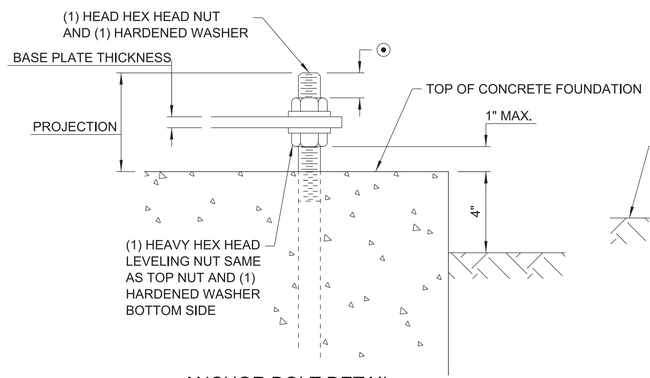
TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	2F5
PS&E	2025	R-NH-385(33)	2F5



SECTION A-A

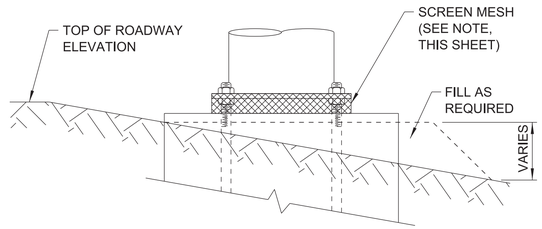


T400 BARS
SHALL LAP 1'-0"



ANCHOR BOLT DETAIL

UNDER NO CONDITIONS WILL DRILLING AND GROUTED ANCHOR BOLTS BE ALLOWED SCREEN MESH NOT SHOWN FOR CLARITY



LOW SHOULDER
FOUNDATION
DETAIL

SEALED BY

JOSEPH B. JOHNSON
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CAMERA POLE FOUNDATION DETAILS

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TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	2G
PS&E	2025	R-NH-385(33)	2G

STRUCTURAL GENERAL NOTES:

CONSTRUCTION SPECIFICATIONS: CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE TENNESSEE DEPARTMENT OF TRANSPORTATION (TDOT)STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, JANUARY 1, 2021, EXCEPT AS SUPPLEMENTED OR AMENDED BY THE PLANS, SUPPLEMENTAL SPECIFICATIONS, AND/OR SPECIAL PROVISIONS.

DESIGN SPECIFICATIONS: AASHTO LRFD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINARIES AND TRAFFIC SIGNALS, 2015 AND LATEST INTERIMS.

DESIGN LOADS AND ASSUMPTIONS:

WIND DESIGN SIGN AREA = MAX. OF CLEAR ROADWAY WIDTH x 9' HIGH x 1.5 OR ACTUAL SIGN AREA x 1.5.

TRUSS @ STA. 338+52 = 513 SQ. FT.
TRUSS @ STA. 427+39 = 513 SQ. FT.
TRUSS @ STA. 443+24 = 513 SQ. FT.

DMS GROSS WEIGHT = 4200 LBS.
BASIC WIND SPEED = 120 MPH
RISK CATEGORY = HIGH

CONCRETE: TO BE CLASS "A" (CAST IN PLACE) f'c = 3000 PSI IN ACCORDANCE WITH TDOT STANDARD SPECIFICATIONS SECTION 604. ALL EXPOSED CONCRETE EDGES SHALL BE CHAMFERED ¾".

CONCRETE FINISH: TO BE IN ACCORDANCE WITH TDOT STANDARD SPECIFICATIONS SECTION 604.21. ALL EXPOSED CONCRETE SURFACES SHALL RECEIVE A CLASS II FINISH.

REINFORCING STEEL: TO BE ASTM A615, GRADE 60. STANDARD C.R.S.I. HOOK DETAILS SHALL APPLY. DIMENSIONS RELATING TO REINFORCING STEEL FABRICATION ARE OUT TO OUT OF BAR UNLESS OTHERWISE NOTED. DIMENSIONS RELATING TO REINFORCING STEEL BAR SPACING ARE CENTER TO CENTER OF BAR OR FACE OF CONCRETE TO CENTER OF BAR. REINFORCING STEEL SHALL HAVE A MINIMUM COVER OF 2" EXCEPT WHEN CONCRETE IS CAST AGAINST EARTH THEN SHALL HAVE A MINIMUM COVER OF 3", UNLESS OTHERWISE NOTED.

WELDING: SHALL CONFORM TO AWS D1.1 LATEST EDITION. WELDING OF GALVANIZED MEMBERS SHALL NOT BE ALLOWED WITHOUT THE PRIOR, WRITTEN APPROVAL OF THE FABRICATION ENGINEER.

MATERIAL SPECIFICATIONS - BOLTS:

1.) ANCHOR BOLTS SHALL BE ASTM F1554, GRADE 55 (OR APPROVED EQUAL).
2.) STRUCTURAL STEEL BOLTS SHALL BE HIGH STRENGTH BOLTS, ASTM F3125, TYPE 1, GRADE 120 ksi UNLESS OTHERWISE NOTED.
3.) U-BOLTS SHALL CONFORM TO ASTM A449.
4.) STAINLESS STEEL BOLTS SHALL CONFORM TO ASTM A193.
5.) STAINLESS STEEL NUTS, WASHERS, AND SCREWS SHALL CONFORM TO ASTM A194, GRADE 8F, EXCEPT THAT THE NUTS SHALL BE LOCK NUTS WITH SEMI FINISHED HEX NUTS EQUIVALENT TO AMERICAN STANDARD HEAVY SERIES.
6.) ALL HARDWARE, EXCEPT STAINLESS STEEL, SHALL BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A153.

MATERIAL SPECIFICATIONS - STEEL:

1.) MATERIAL FOR POSTS, CHORDS AND BRACING MEMBERS TO BE ASTM A500 GRADE "B" OR "C" (Fy = 42 KSI MIN.) UNLESS OTHERWISE NOTED.
2.) MATERIAL FOR STRUCTURAL SHAPES AND PLATES TO BE AASHTO M270, GRADE 50.
3.) ALL STEEL SHALL BE GALVANIZED AFTER FABRICATION IN CONFORMANCE WITH THE REQUIREMENTS OF ASTM A123. PROPER VENTING PRACTICES SHALL BE USED AND DETAILED ON THE SHOP DRAWINGS. DAMAGE TO GALVANIZED SURFACES SHALL BE REPAIRED IN ACCORDANCE WITH TDOT STANDARD SPECIFICATIONS SECTION 713.04B.

BOLT INSTALLATION: UNLESS NOTED, ALL THREADED CONNECTIONS SHALL INCORPORATE A LOCKING DEVICE AND HAVE A MINIMUM PROJECTION OF ½" BEYOND THE NUT. WHERE BOLTS ARE USED ON BEVELED SURFACES, BEVELED WASHERS SHALL BE PROVIDED TO ACHIEVE FULL BEARING TO THE HEAD AND/OR NUT. DIRECT TENSION INDICATING (DTI) WASHERS SHALL BE USED ON ALL BOLTS WHERE TENSION VERIFICATION IS REQUIRED.

BASE INSTALLATION: THE ANCHOR BOLT SHALL BE THREADED OVER THE ENTIRE PROJECTING LENGTH. ONE HEX LEVELING NUT SHALL BE USED ON THE BOTTOM SIDE OF THE BASE PLATE WITH CLEARANCE BETWEEN THE NUT AND CONCRETE NOT TO EXCEED 1". PRELOAD SHALL BE INDUCED IN THE BOLT BY TIGHTENING THE NUTS AND MEASURING THE TIGHTNESS BY TURN-OF-NUT METHOD. EACH TOP NUT SHALL BE TIGHTENED IN THE SPECIFIED SEQUENCE 30 DEGREES PAST SNUG TIGHT (ONE-HALF OF A HEX NUT "FLAT"). THIS PROCESS OF TIGHTENING EACH TOP NUT AN ADDITIONAL 30 DEGREES DOWN SHALL BE REPEATED UNTIL EACH TOP NUT HAS BEEN TIGHTENED 240 DEGREES PAST SNUG TIGHT. IN THE CASE OF USING ONE NUT, 3 BOLT THREADS SHALL BE EXPOSED, IN THE CASE OF USING 2 NUTS, BOLT EXPOSURE IS NOT REQUIRED. THE SPACE BETWEEN THE BASE PLATE AND TOP OF CONCRETE SHALL NOT BE FILLED WITH GROUT. PROVIDE A SECURED SCREEN MESH AROUND THE BASE PLATE TO KEEP DEBRIS FROM ACCUMULATING BETWEEN THE FOUNDATION AND BASE PLATE. ANCHOR BOLTS SHALL BE FURNISHED IN A PREPOSITIONED ANCHOR BOLT ASSEMBLY USING A TOP AND BOTTOM TEMPLATE, UNLESS OTHERWISE NOTED. BASE INSTALLATIONS THAT REQUIRE ELECTRICAL CONDUITS SHALL BE GROUNDED IN ACCORDANCE WITH THE DETAILS SHOWN ON TDOT STANDARD DRAWINGS T-S-15 AND T-SG-10.

MATERIAL CERTIFICATION: MATERIAL CERTIFICATION SHALL BE SUBMITTED TO THE ENGINEER FOR THEIR APPROVAL 30 DAYS PRIOR TO THE STRUCTURAL ERECTION.

SHOP DRAWINGS:

1.) ALL SHOP DRAWINGS SHALL CONTAIN SIGN STRUCTURE ID NUMBERS FOR EACH STRUCTURE.
2.) THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS IN ACCORDANCE WITH TDOT STANDARD SPECIFICATIONS SECTION 105.02.
3.) EACH STRUCTURE SHALL CONTAIN A BILL OF MATERIALS SPECIFIC FOR THAT STRUCTURE.
4.) THE SHOP DRAWINGS SHALL BE STAMPED AND SIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF TENNESSEE.

GENERAL NOTES FOR SIGN SUPPORTS (CONTINUED):

SOIL FOUNDATION DESIGN:

1.) THE DESIGN OF SUPPORT STRUCTURAL FOUNDATIONS SHOWN IN THE PLANS UTILIZE SITE-SPECIFIC GEOTECHNICAL DATA SUPPLIED WITHIN THE GEOTECHNICAL REPORT DATED MARCH 1, 2022.
2.) THE CONTRACTOR IS RESPONSIBLE FOR REVIEWING THE SITE-SPECIFIC GEOTECHNICAL DATA TO SUPPORT THE SELECTION OF CONSTRUCTION TECHNIQUES.
3.) DRILLED SHAFTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH TDOT SPECIAL PROVISION 204DC.
4.) ALL COSTS ASSOCIATED WITH THE FOUNDATION SHALL BE PAID FOR AT THE UNIT PRICE.

FIELD VERIFICATION: DIMENSIONS REQUIRED FOR SATISFACTORY INSTALLATION SHALL BE DETERMINED AND FIELD VERIFIED BY THE CONTRACTOR PRIOR TO THE DEVELOPMENT OF SHOP DRAWINGS, FABRICATION, AND CONSTRUCTION. THE CONTRACTOR SHALL DETERMINE IF DIMENSION ADJUSTMENTS ARE NEEDED BASED ON FIELD MEASUREMENTS AND SUBMIT ANY PROPOSED CHANGES TO THE DIRECTOR OF THE DIVISION OF STRUCTURES FOR APPROVAL.

MISCELLANEOUS: ALUMINUM SURFACES PLACED IN CONTACT WITH, OR FASTENED TO, NON-GALVANIZED STEEL MEMBERS SHALL BE THOROUGHLY COATED WITH AN APPROVED ALUMINUM IMPREGNATED CAULKING COMPOUND.

ALL EXCAVATION, FOUNDATION PREPARATION, AND BACKFILL SHALL BE IN ACCORDANCE WITH TDOT STANDARD SPECIFICATIONS SECTION 204. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND INSTALLATION OF SHEET PILING REQUIRED TO MAINTAIN THE ADJACENT ROADWAY DURING FOUNDATION CONSTRUCTION. COST OF SHEET PILING SHALL BE INCLUDED IN PAY ITEM NUMBER 725-20.22. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE STATE RIGHT-OF-WAY LIMITS AND MAINTAINING ALL CONSTRUCTION WITHIN THESE LIMITS.

PROPOSED ADJUSTMENTS TO THE DMS LOCATIONS SHOWN ON THE PLANS OR ADJUSTMENTS TO AVOID PLACEMENT IN DEEP DITCHES, ON STEEP BACKSLOPES, NEAR TREE LINES, OR OTHER UNACCOUNTED FIELD CONDITIONS MUST BE APPROVED BY THE DIRECTOR OF THE DIVISION OF STRUCTURES PRIOR TO DEVELOPING SHOP DRAWINGS.

SEALED BY

JOSEPH B. JOHNSON
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
INDUSTRY
STATE OF TENNESSEE
7/7/25

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

STRUCTURAL
GENERAL NOTES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	2G1
PS&E	2025	R-NH-385(33)	2G1

DMS STRUCTURE NOTES:

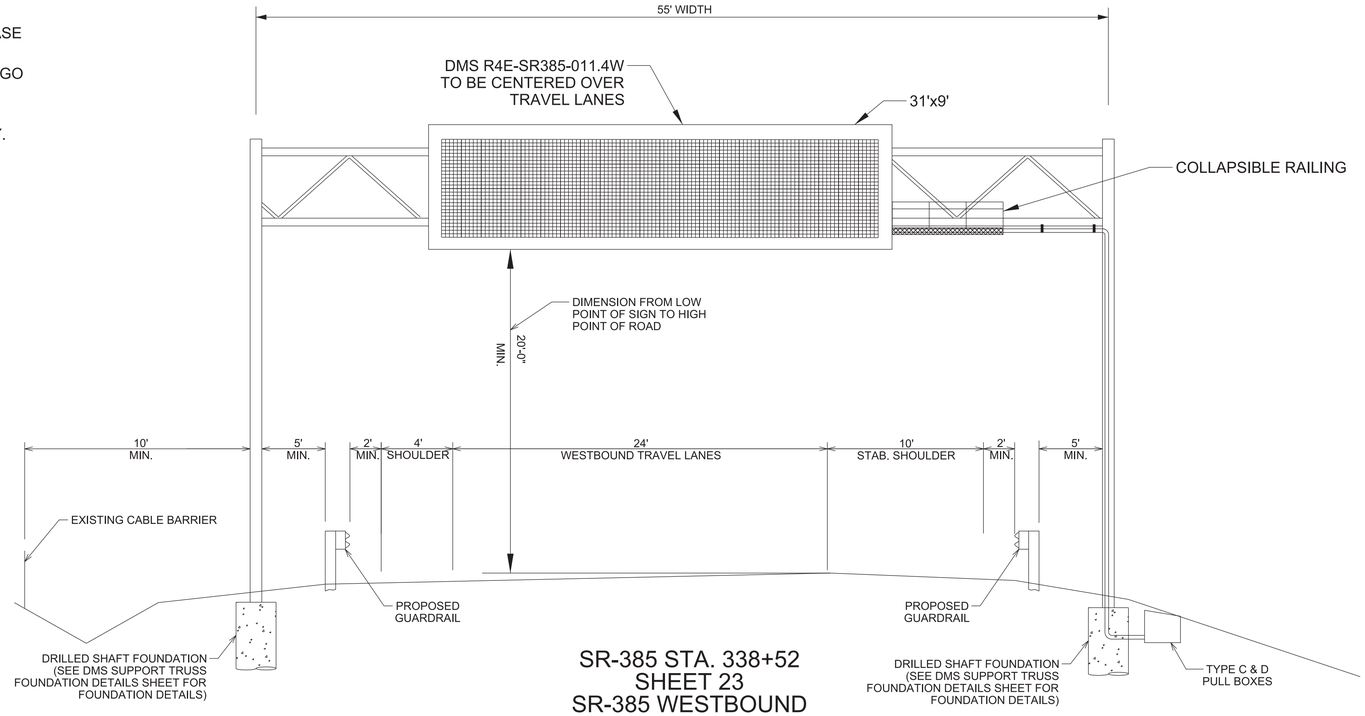
1. REFER TO STRUCTURAL NOTES AND DETAILS THIS PLAN SET FOR SIGN STRUCTURE, SUPPORTS, WALKWAY, AND FOUNDATION DETAILS.

2. CONTRACTOR TO PROVIDE 4-2" CONDUITS WITHIN FOUNDATION FROM BASE OF SIGN TRUSS TO NEW TYPE C AND TYPE D PULL BOXES. 1 CONDUIT SHALL GO TO THE TYPE C PULL BOX AND THE OTHER 3 CONDUITS SHALL GO TO THE TYPE D PULL BOX.

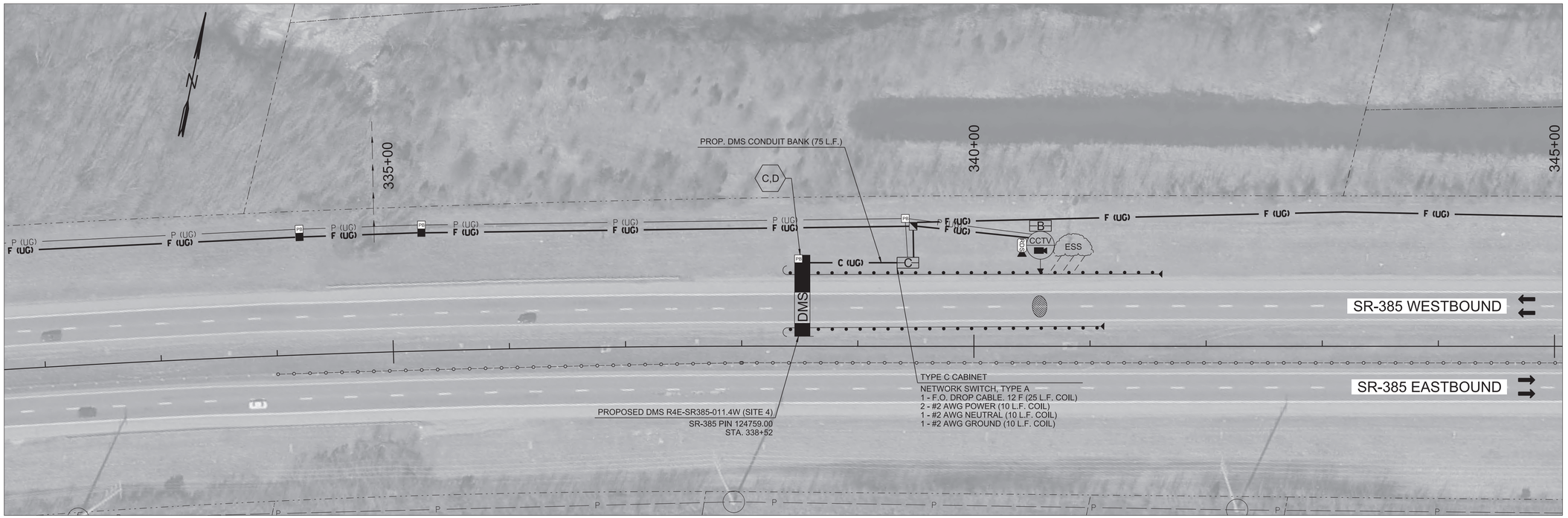
3. CONDUIT AND CABLING IS SHOWN FOR INFORMATIONAL PURPOSES ONLY. SEE ITS LAYOUT SHEETS FOR ALL UNDERGROUND CONDUIT AND CABLE ROUTING.

4. THE CONTRACTOR SHALL STAKE ALL FOUNDATION AND GUARDRAIL LOCATIONS AND RECEIVE APPROVAL FROM THE ENGINEER PRIOR TO INSTALLATION OR CONSTRUCTION.

SIGN STRUCTURE ID NO:
79SNU0753233



SR-385 STA. 338+52
SHEET 23
SR-385 WESTBOUND



SEALED BY

JOSEPH B. JOHNSON
REGISTERED ENGINEER
AGRICULTURE
TENNESSEE
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

DYNAMIC
MESSAGE
SIGN
CROSS-SECTION

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TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	2G2
PS&E	2025	R-NH-385(33)	2G2

DMS STRUCTURE NOTES:

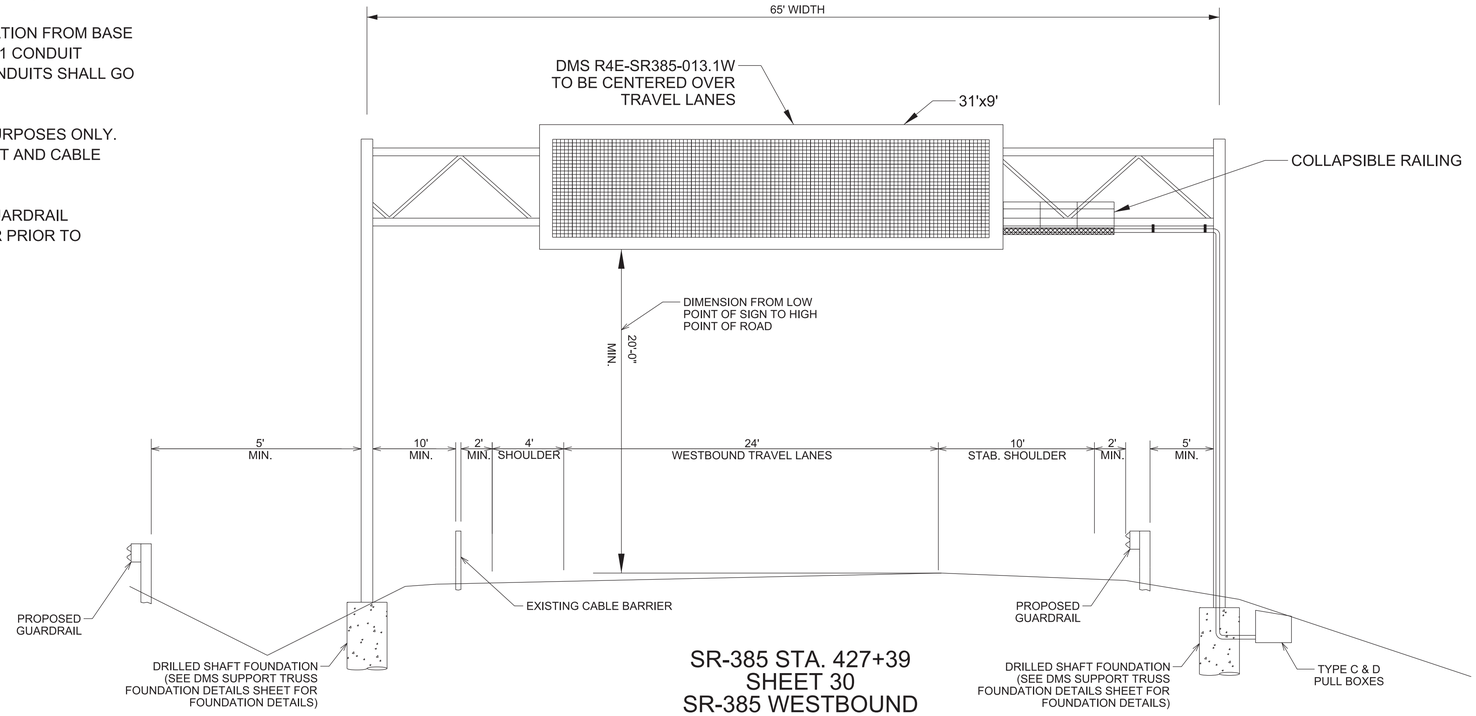
1. REFER TO STRUCTURAL NOTES AND DETAILS THIS PLAN SET FOR SIGN STRUCTURE, SUPPORTS, WALKWAY, AND FOUNDATION DETAILS.

2. CONTRACTOR TO PROVIDE 4-2" CONDUITS WITHIN FOUNDATION FROM BASE OF SIGN TRUSS TO NEW TYPE C AND TYPE D PULL BOXES. 1 CONDUIT SHALL GO TO THE TYPE C PULL BOX AND THE OTHER 3 CONDUITS SHALL GO TO THE TYPE D PULL BOX.

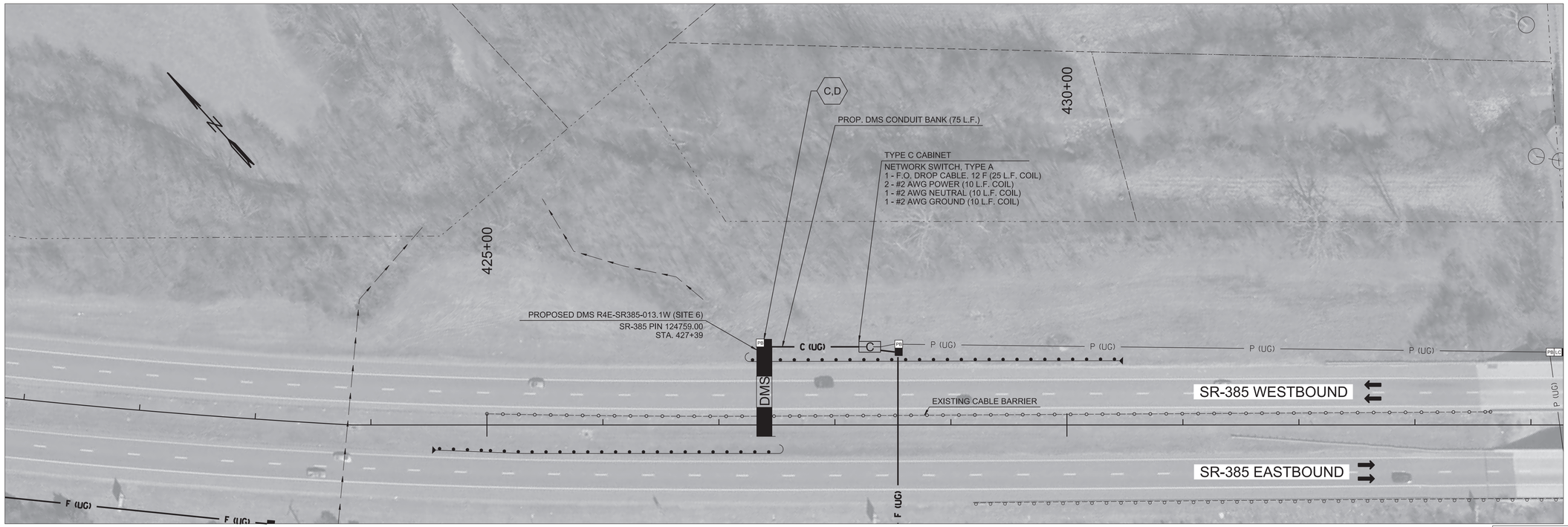
3. CONDUIT AND CABLING IS SHOWN FOR INFORMATIONAL PURPOSES ONLY. SEE ITS LAYOUT SHEETS FOR ALL UNDERGROUND CONDUIT AND CABLE ROUTING.

4. THE CONTRACTOR SHALL STAKE ALL FOUNDATION AND GUARDRAIL LOCATIONS AND RECEIVE APPROVAL FROM THE ENGINEER PRIOR TO INSTALLATION OR CONSTRUCTION.

SIGN STRUCTURE ID NO:
79SNU0753243



SR-385 STA. 427+39
SHEET 30
SR-385 WESTBOUND



SEALED BY



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

DYNAMIC MESSAGE SIGN CROSS-SECTION

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TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	2G3
PS&E	2025	R-NH-385(33)	2G3

DMS STRUCTURE NOTES:

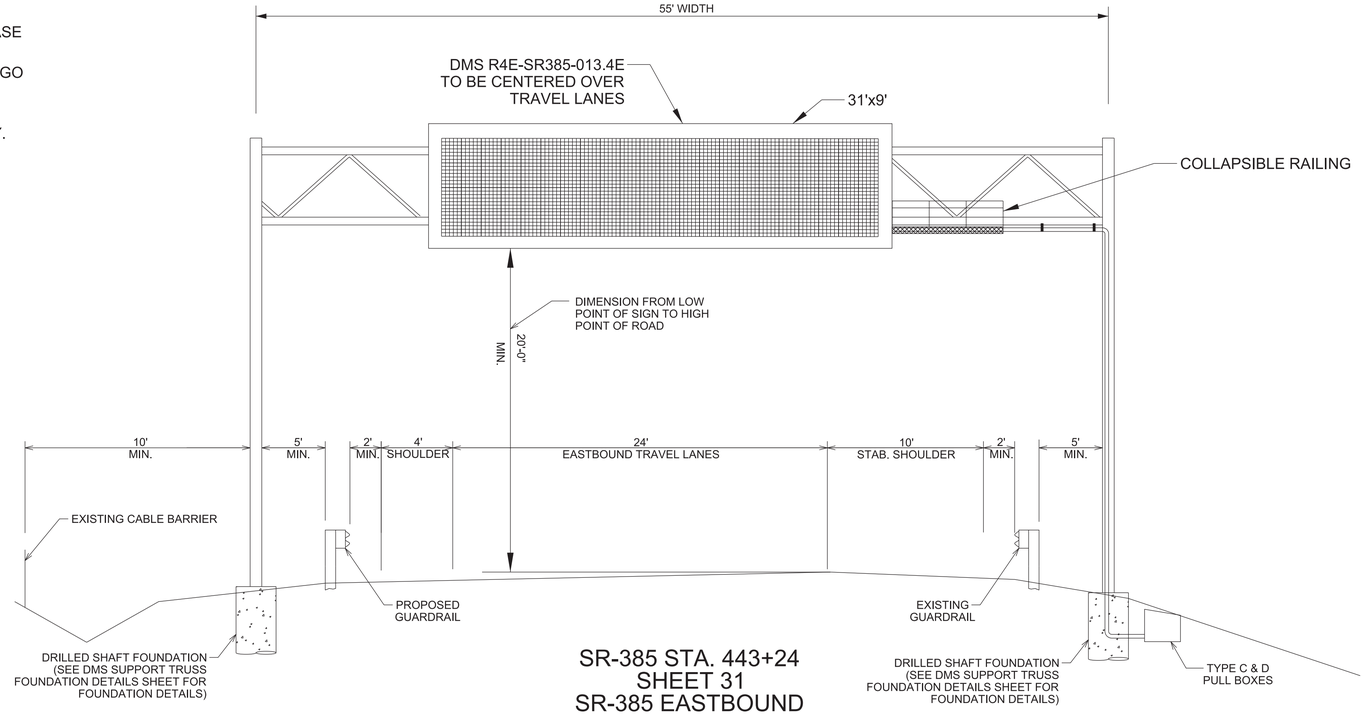
1. REFER TO STRUCTURAL NOTES AND DETAILS THIS PLAN SET FOR SIGN STRUCTURE, SUPPORTS, WALKWAY, AND FOUNDATION DETAILS.

2. CONTRACTOR TO PROVIDE 4-2" CONDUITS WITHIN FOUNDATION FROM BASE OF SIGN TRUSS TO NEW TYPE C AND TYPE D PULL BOXES. 1 CONDUIT SHALL GO TO THE TYPE C PULL BOX AND THE OTHER 3 CONDUITS SHALL GO TO THE TYPE D PULL BOX.

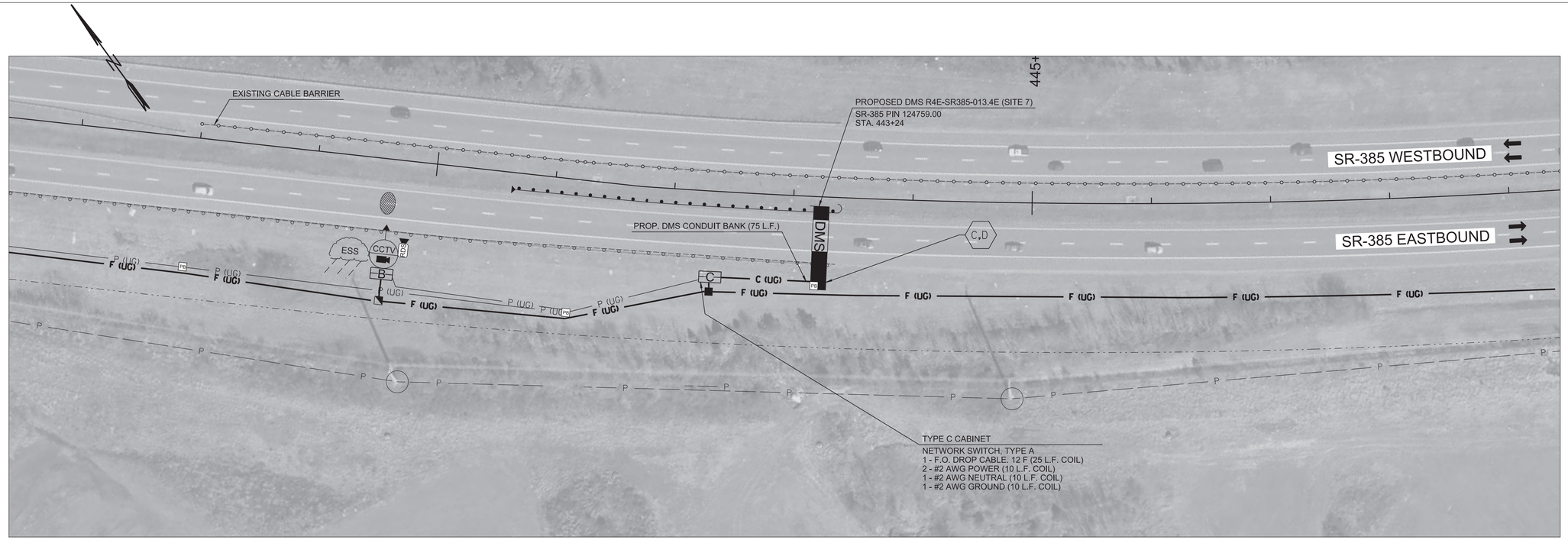
3. CONDUIT AND CABLING IS SHOWN FOR INFORMATIONAL PURPOSES ONLY. SEE ITS LAYOUT SHEETS FOR ALL UNDERGROUND CONDUIT AND CABLE ROUTING.

4. THE CONTRACTOR SHALL STAKE ALL FOUNDATION AND GUARDRAIL LOCATIONS AND RECEIVE APPROVAL FROM THE ENGINEER PRIOR TO INSTALLATION OR CONSTRUCTION.

SIGN STRUCTURE ID NO:
79SNU0753253



SR-385 STA. 443+24
SHEET 31
SR-385 EASTBOUND



SEALED BY

JOSEPH B. JOHNSON
REGISTERED ENGINEER
AGRICULTURE
No. 120740
STATE OF TENNESSEE

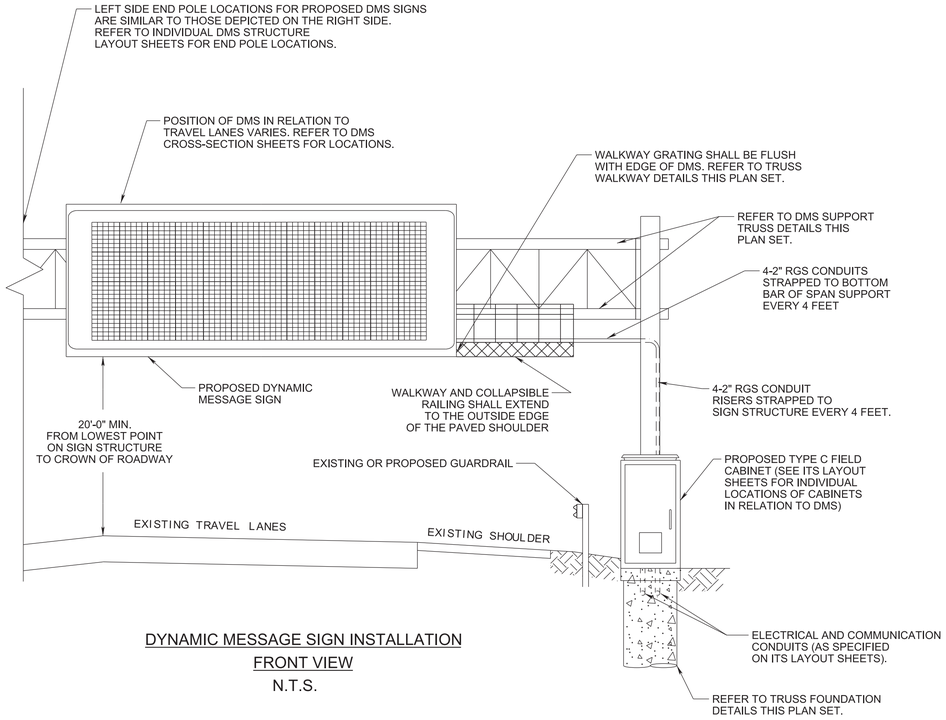
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

DYNAMIC
MESSAGE
SIGN
CROSS-SECTION

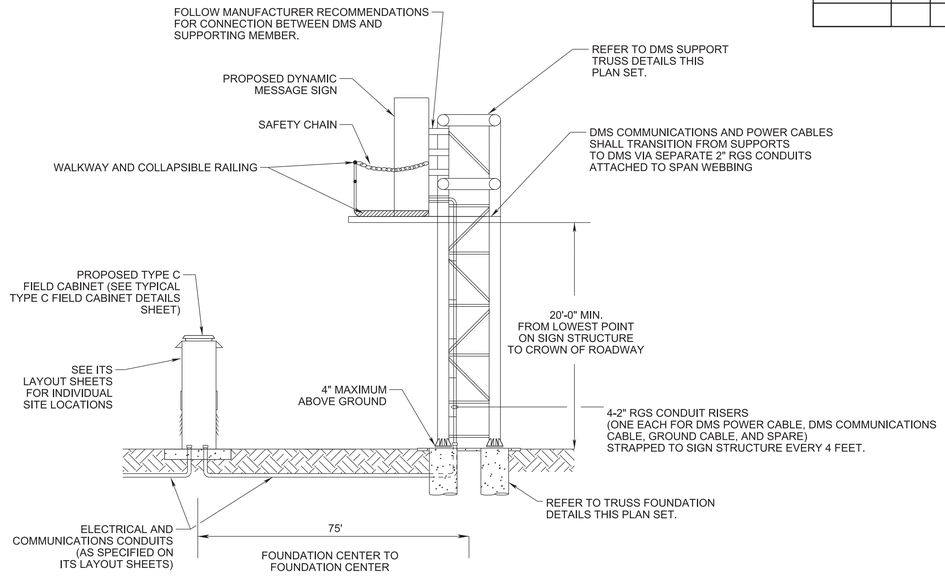
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TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	2G4
PS&E	2025	R-NH-385(33)	2G4



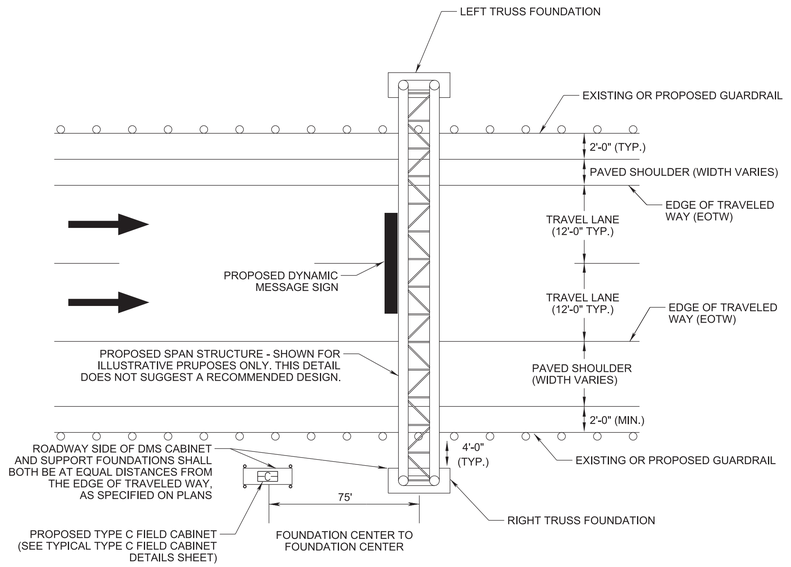
DYNAMIC MESSAGE SIGN INSTALLATION
FRONT VIEW
N.T.S.



DYNAMIC MESSAGE SIGN INSTALLATION
SIDE VIEW
N.T.S.

DMS STRUCTURE NOTES:

1. CONTRACTOR SHALL FURNISH AND INSTALL STRUCTURES COMPLETE WITH FOUNDATIONS, ATTACHMENTS TO DMS, WALKWAY, AND WALKWAY RAILING. REFER TO STRUCTURAL NOTES AND DETAILS THIS PLAN SET FOR SIGN STRUCTURE, SUPPORTS, WALKWAY AND FOUNDATION DETAILS.
2. THE SIGN STRUCTURE ID# SHALL BE PLACED ON EACH INDIVIDUAL STRUCTURE AND SHOP DRAWINGS. SEE TDOT STRUCTURES STANDARD DRAWING STD-8-4 FOR PROPER LABELING DETAILS.
3. THE PROPOSED RAILING DEPICTED FOR THE WALKWAY SHALL BE A COLLAPSIBLE RAILING THAT CAN BE FASTENED TO THE WALKWAY WHEN NOT IN USE SO THAT THE RAILING DOES NOT LIMIT THE VISIBILITY OF OTHER STATIC SIGNS THAT MAY BE LOCATED ON THE SAME SIGN STRUCTURE. FURTHERMORE, A SAFETY CHAIN SHALL BE PROVIDED ON THE OPEN END OF THE WALKWAY OPPOSITE OF DMS ENTRANCE PER DETAILS ABOVE.
4. REFER TO DMS CROSS SECTION SHEET FOR SIGN LAYOUT.
5. PROVISIONS FOR WIRING AS WELL AS GROUNDING SHALL BE PROVIDED (SEE TDOT STD DWG. T-S-15).



DYNAMIC MESSAGE SIGN INSTALLATION
PLAN VIEW
N.T.S.

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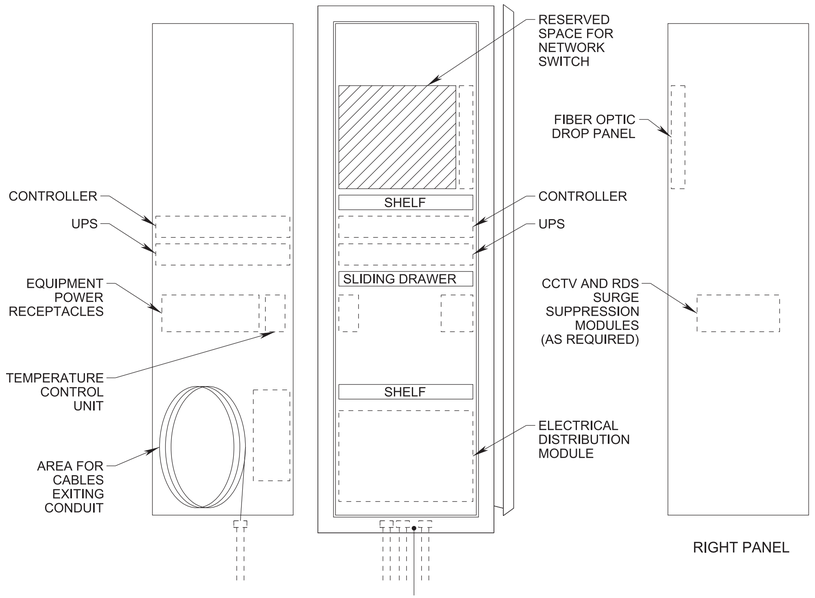


STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

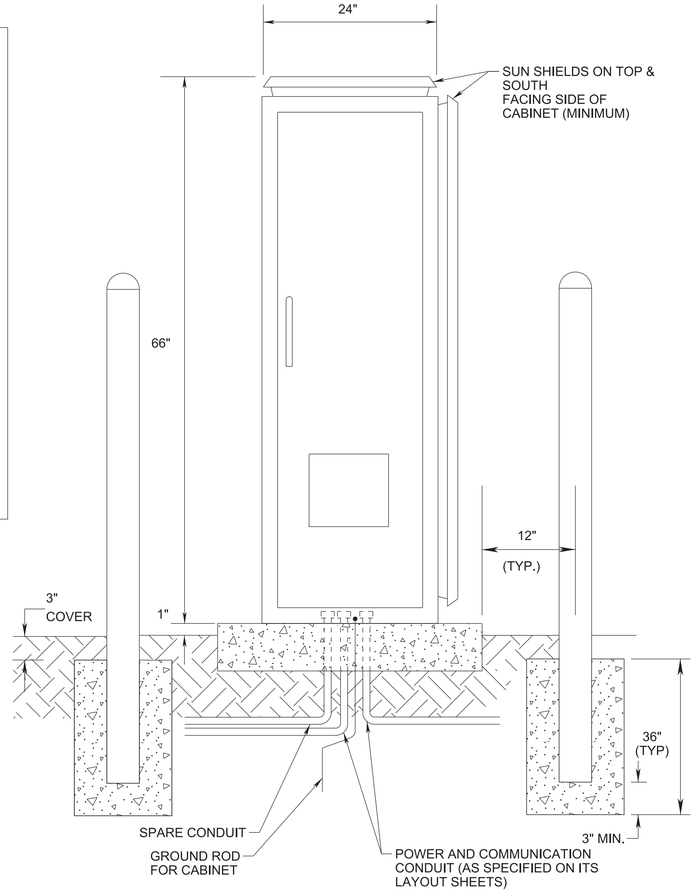
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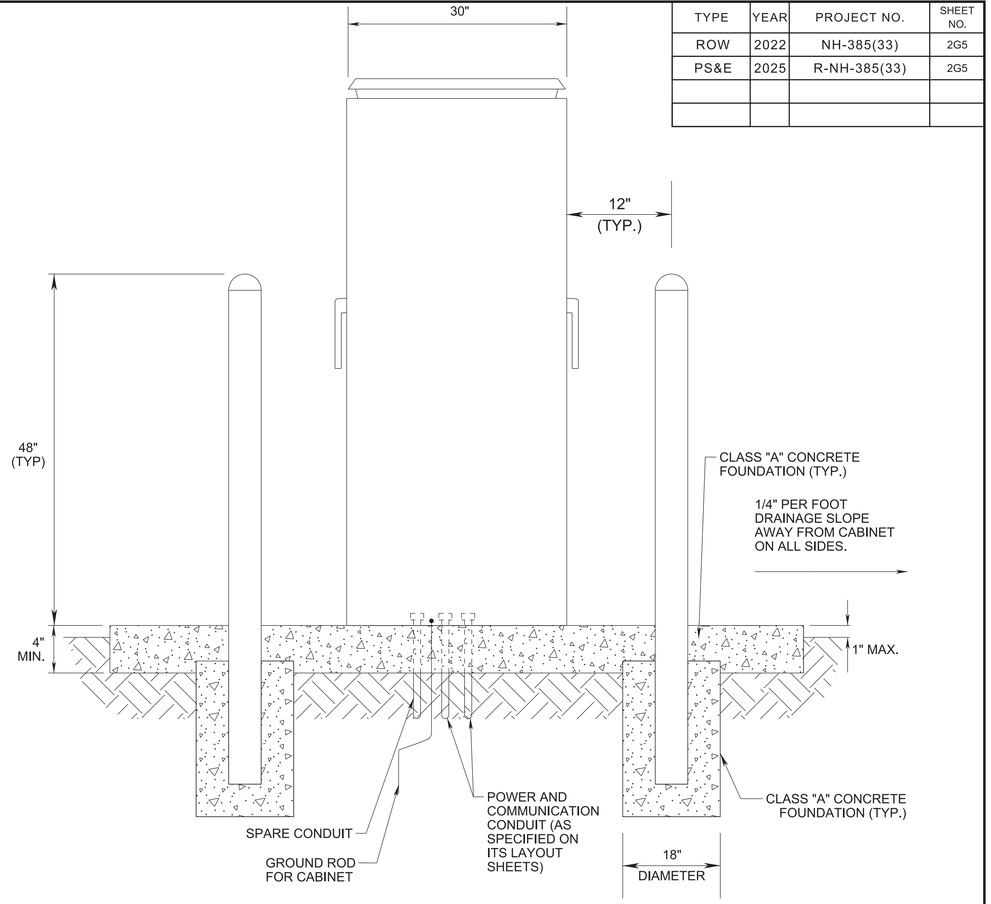
TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	2G5
PS&E	2025	R-NH-385(33)	2G5



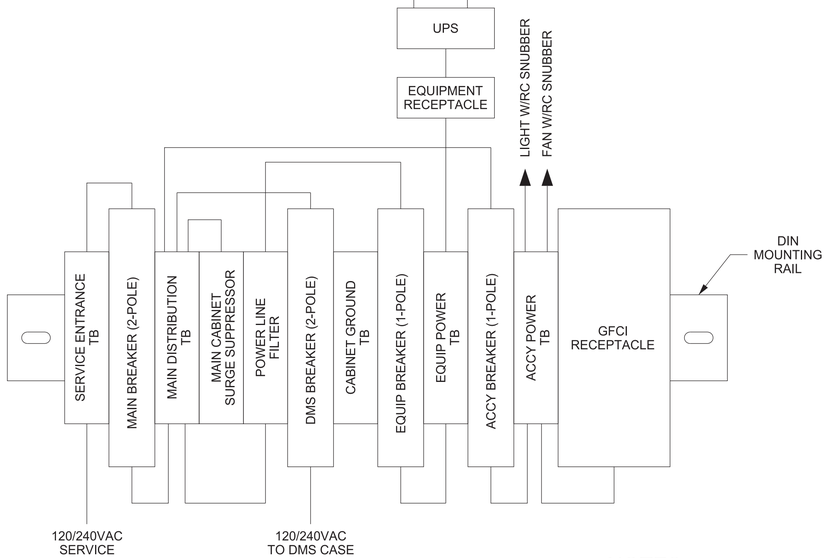
CABINET LAYOUT



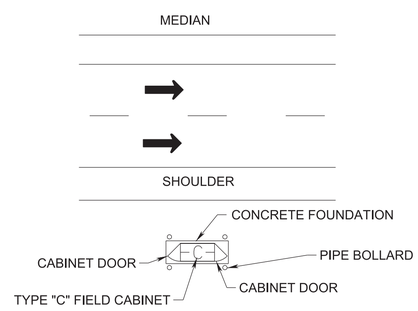
SIDE VIEW



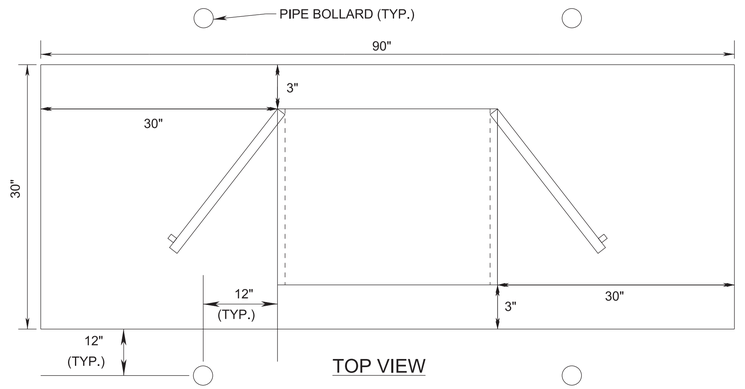
FRONT VIEW



ELECTRICAL DISTRIBUTION MODULE



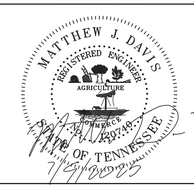
DETAIL: PLAN VIEW OF TYPE "C" FIELD CABINET ORIENTATION
N.T.S.



TOP VIEW

TYPE "C" FIELD CABINET (66"x24"x30")
N.T.S.

SEALED BY



NOTES:

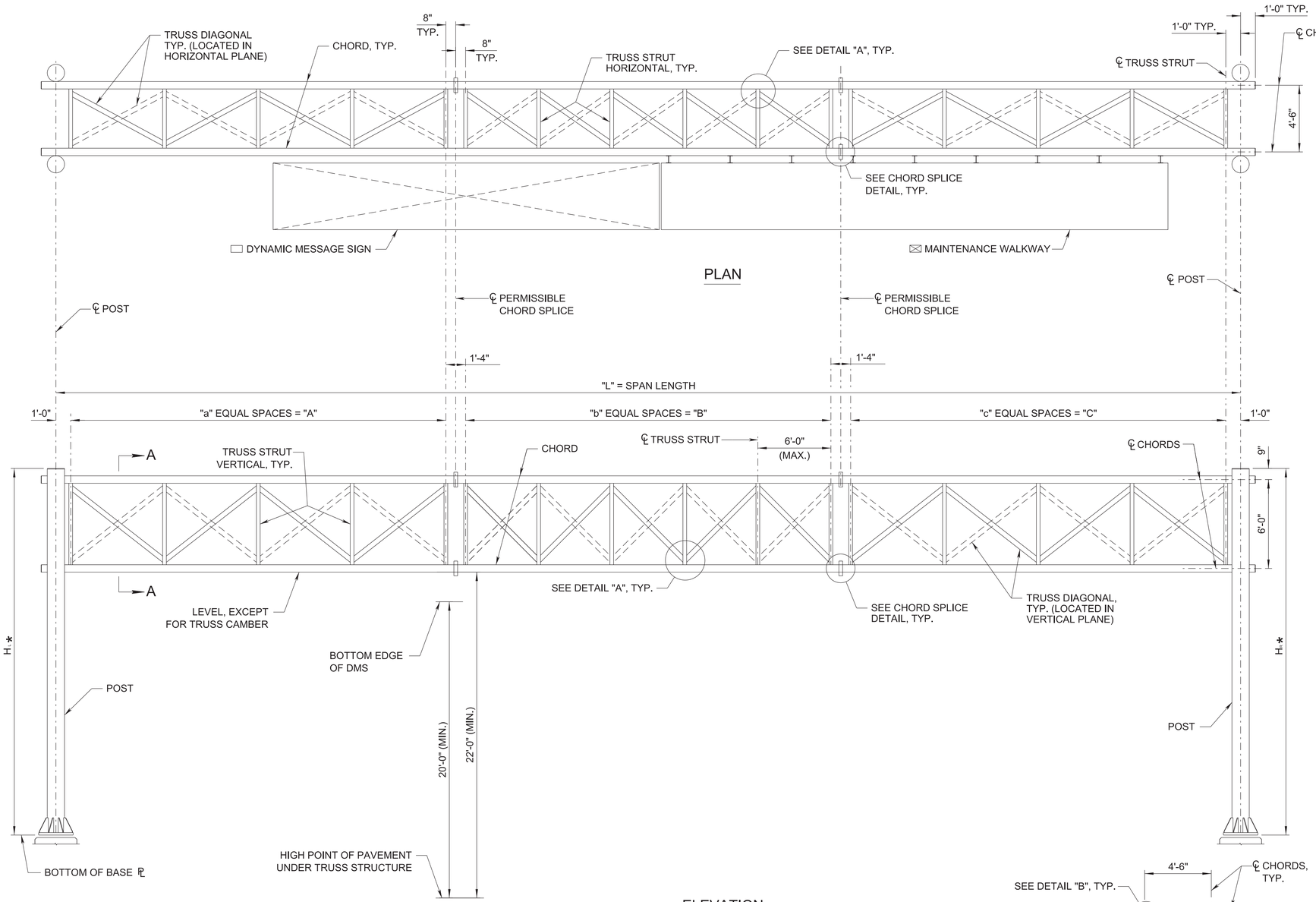
1. SUNSHIELDS SHALL BE REQUIRED FOR ALL FIELD CABINETS. SUNSHIELDS SHALL BE PROVIDED FOR THE TOP PANEL AND FOR THE SOUTH FACING SIDE OF THE CABINET.
2. CABINETS SHALL BE LABELED "TDOT ITS" WITH DEVICE NAME, TYPE, AND NUMBER.
3. CABINET DIMENSIONS ARE NOMINAL MINIMUMS. SEE SPECIAL PROVISIONS FOR ADDITIONAL REQUIREMENTS.
4. CONTRACTOR SHALL SUBMIT ONE (1) SET OF PDF SHOP DRAWINGS FOR EACH CABINET TYPE TO THE ENGINEER FOR APPROVAL.
5. PREFABRICATED CONCRETE OR POLYMER CONCRETE FOUNDATIONS MAY BE SUBSTITUTED FOR APPROVAL BY THE ENGINEER IN LIEU OF CAST IN PLACE CONCRETE FOUNDATIONS.
6. THE AMOUNT OF CONCRETE NEEDED TO FORM PAD MAY VARY BASED UPON SLOPE CONDITIONS ENCOUNTERED IN THE FIELD FOR THE TYPE "C" CABINET.
7. ELECTRICAL DISTRIBUTION MODULE IS INTENDED AS A BLOCK DIAGRAM. NOT ALL REQUIRED CONDUCTORS/CONNECTIONS ARE SHOWN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL TYPE C FIELD CABINET DETAILS

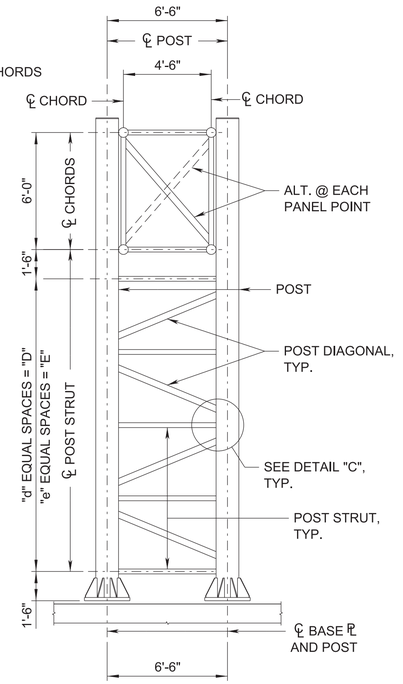
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TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	2G6
PS&E	2025	R-NH-385(33)	2G6

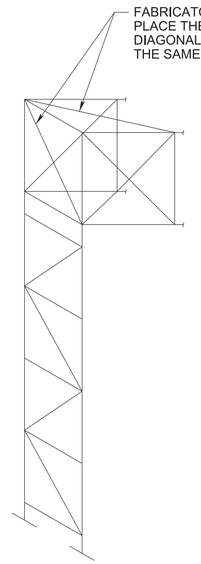


ELEVATION

(LOOKING IN DIRECTION OF TRAFFIC)
(DMS & MAINTENANCE WALKWAY NOT SHOWN FOR CLARITY)



SIDE ELEVATION



ISOMETRIC OF COLUMN

NOTES:

ALL EXPOSED ENDS OF PIPE SHALL BE SEALED WITH A FRICTION CAP. SEE DMS SUPPORT TRUSS CONNECTION DETAILS SHEET.

FOR DETAILS "A", "B", "C" AND CHORD SPLICE DETAIL, SEE DMS SUPPORT TRUSS CONNECTION DETAILS SHEET.

TRUSS AND ALL DETAILS TO BE PAID FOR UNDER ITEM NO. 725-20.22.

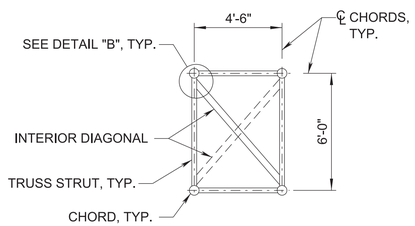
GRINDING OF WELD ON SEAMED PIPE WILL NOT BE REQUIRED, HOWEVER GOOD SHOP PRACTICES SHALL BE FOLLOWED IN THE APPEARANCE OF THE WELD.

METHOD OF TRANSPORTATION OF TRUSS FROM POINT OF FABRICATION TO ERECTION LOCATION SHALL SUPPORT THE TRUSS AND NOT UTILIZE THE TRUSS TO CARRY LOAD.

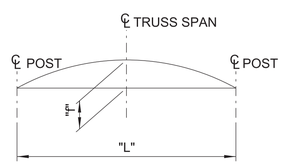
* EXACT DIMENSION IS SUBJECT TO FIELD MEASUREMENT BY CONTRACTOR.

▭ REFER TO DMS CROSS-SECTIONS SHEET FOR EXACT LOCATION OF DMS ON TRUSS.

⊠ REFER TO DMS SUPPORT TRUSS WALKWAY DETAILS SHEET FOR WALKWAY LOCATION ON TRUSS.



SECTION A-A



TRUSS CAMBER DETAIL

(INCLUDES L/1000 ADDITIONAL PERMANENT CAMBER)

SEALED BY

JOSEPH B. JOHNSON
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 120700
STATE OF TENNESSEE

OVERHEAD TRUSS MEMBER SIZES
MEMBER DIAMETER, INCHES X MEMBER THICKNESS, INCHES

STRUCTURE @ STA.	SPAN LENGTH "L"	REQUIRED PANEL SPACING FOR TRUSS PARTS						POSTS	CHORDS	TRUSS STRUTS		TRUSS DIAGONALS		INTERIOR DIAGONALS	POST STRUTS	POST DIAGONALS	LEFT POST			RIGHT POST			CAMBER
		"a"	"A"	"b"	"B"	"c"	"C"			VERTICAL	HORIZONTAL	VERTICAL	HORIZONTAL				H_L	"d"	"D"	H_R	"e"	"E"	"f"
338+52	55'-0"	5	25'-10"	--	--	5	25'-10"	12.75 x 0.375	6.00 x 0.25	2.875 x 0.25	2.875 x 0.25	3.00 x 0.25	3.00 x 0.25	3.00 x 0.25	3.00 x 0.25	5.00 x 0.25	30'-9"	3	21'-0"	30'-9"	3	21'-0"	7/8"
427+39	65'-0"	6	30'-10"	--	--	6	30'-10"	12.75 x 0.375	6.00 x 0.25	2.875 x 0.25	2.875 x 0.25	3.00 x 0.25	3.00 x 0.25	3.00 x 0.25	3.00 x 0.25	5.00 x 0.25	28'-0"	4	18'-1"	30'-0"	4	20'-1"	1 1/8"
443+24	55'-0"	5	25'-10"	--	--	5	25'-10"	12.75 x 0.375	6.00 x 0.25	2.875 x 0.25	2.875 x 0.25	3.00 x 0.25	3.00 x 0.25	3.00 x 0.25	3.00 x 0.25	5.00 x 0.25	30'-9"	3	21'-0"	30'-9"	3	21'-0"	7/8"

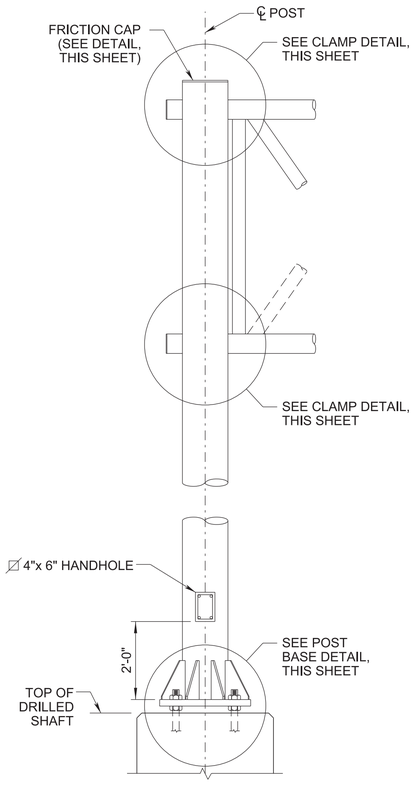
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

DMS SUPPORT SIGN TRUSS LAYOUT

7/9/2025 9:15:34 AM
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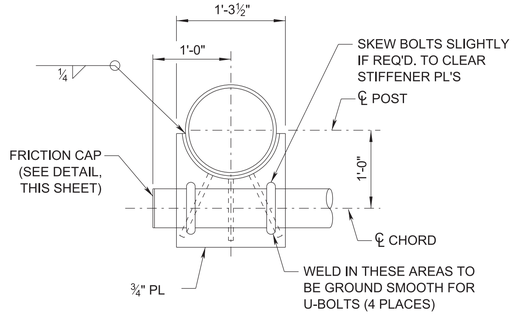
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TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	2G7
PS&E	2025	R-NH-385(33)	2G7

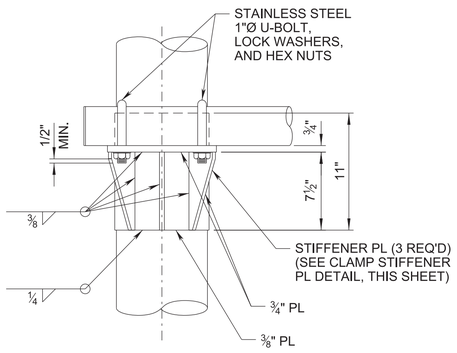


POST ELEVATION

SCREEN MESH NOT SHOWN FOR CLARITY

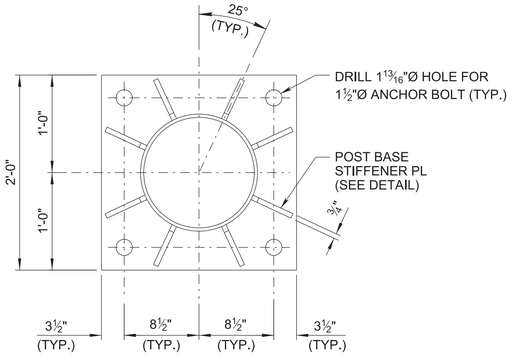


PLAN

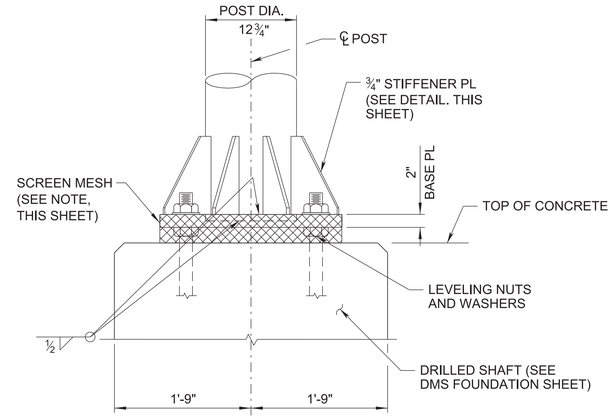


ELEVATION

CLAMP DETAIL

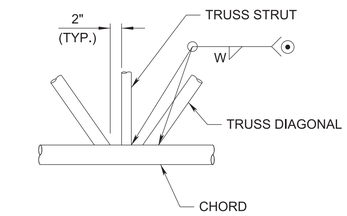


PLAN

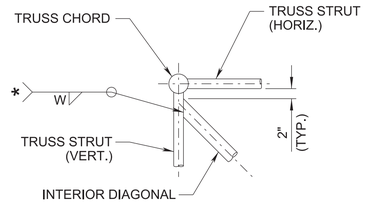


ELEVATION

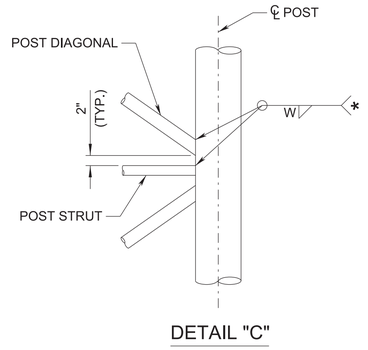
POST BASE DETAIL



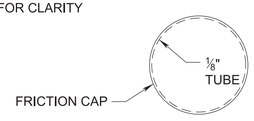
DETAIL "A"



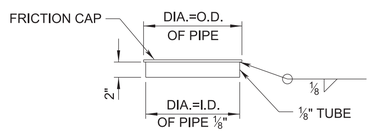
DETAIL "B"



DETAIL "C"

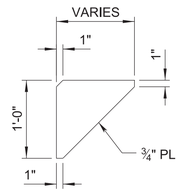


PLAN

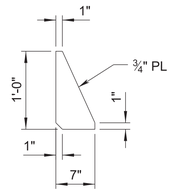


SECTION THRU CAP

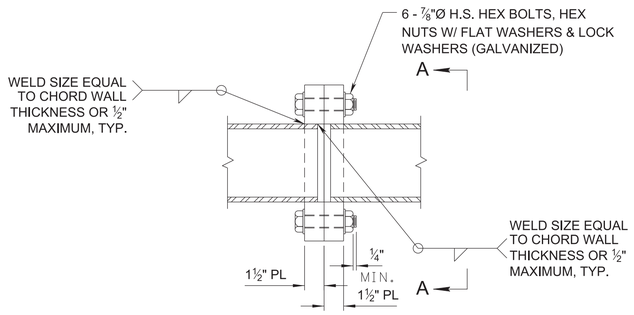
FRICTION CAP DETAIL



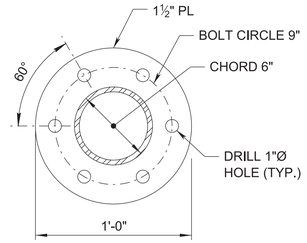
CLAMP STIFFENER PLATE DETAIL



POST BASE STIFFENER PLATE DETAIL



CHORD SPLICE DETAIL



SECTION A-A

NOTES:

FOR LOCATION OF DETAILS "A" THRU "C" AND CHORD SPLICE DETAIL, SEE DMS SUPPORT TRUSS LAYOUT SHEET.

* "W" WILL EQUAL THE WALL THICKNESS OF THE TRUSS STRUT OR TRUSS DIAGONAL WELDED TO THE CHORD. WELD SIZE NEED NOT EXCEED THE THICKNESS OF THE THINNER PART JOINED.

⊠ FOR ALL OTHER DETAILS ON HANDHOLE, SEE STANDARD DRAWING T-S-15.

PROVIDE A SECURED SCREEN MESH AROUND THE BASE PLATE TO KEEP DEBRIS FROM ACCUMULATING BETWEEN THE FOUNDATION AND BASE PLATE.

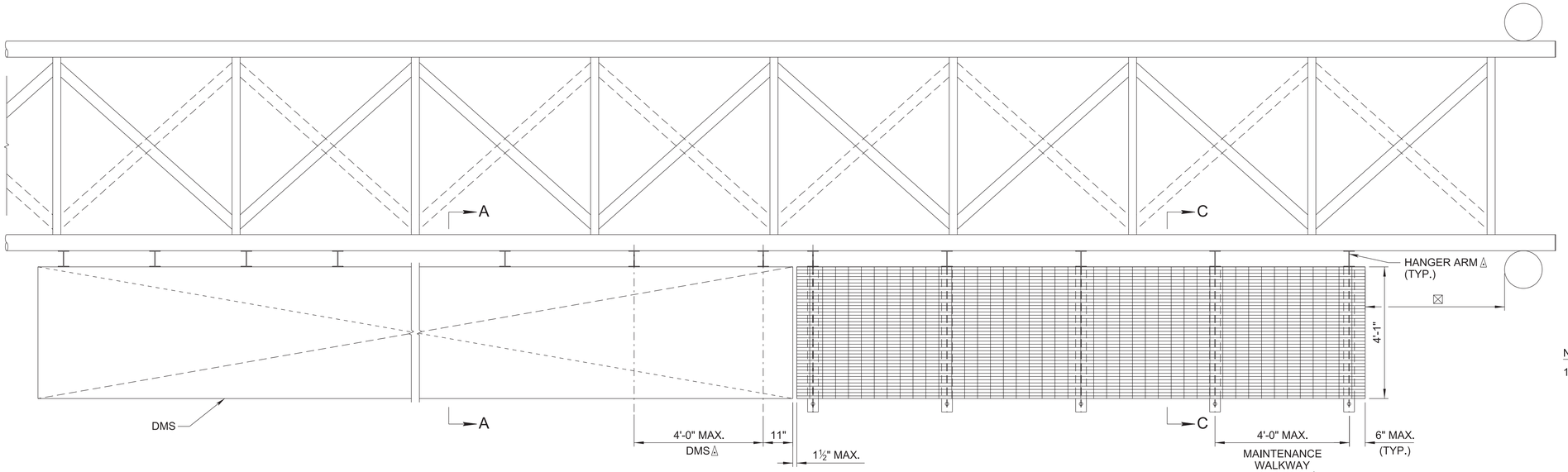
SEALED BY



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

DMS SUPPORT TRUSS CONNECTION DETAILS

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	2G8
PS&E	2025	R-NH-385(33)	2G8



PLAN - MAINTENANCE WALKWAY

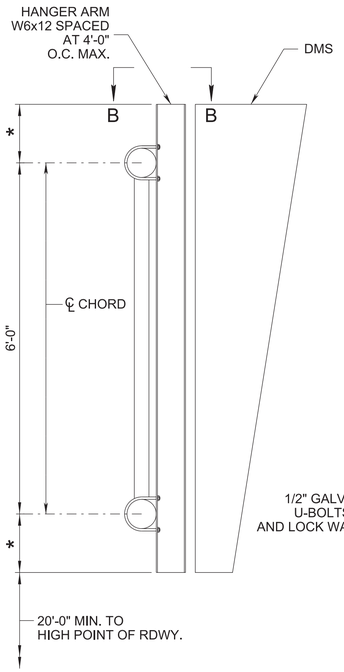
NOTES:

1. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING RAILING DETAILS FOR THE MAINTENANCE WALKWAY. THE RAILING SHALL BE COLLAPSIBLE THAT CAN BE FASTENED TO THE WALKWAY WHEN NOT IN USE SO THAT THE RAILING DOES NOT LIMIT THE VISIBILITY OF OTHER STATIC SIGNS LOCATED ON THE STRUCTURE. FURTHERMORE, A SAFETY CHAIN SHALL BE PROVIDED ON THE OPEN END OF THE WALKWAY OPPOSITE OF DMS ENTRANCE PER DETAILS ON THIS SHEET. MODIFICATIONS TO THE WALKWAY SUPPORT DETAILS IS ALLOWED TO FACILITATE THE ATTACHMENT OF THE COLLAPSIBLE HANDRAIL AND SHALL BE INCLUDED IN THE SHOP DRAWING FOR REVIEW AND APPROVAL OF THE ENGINEER.
2. GRATING TO BE ALUMINUM SWAGE LOCKED GRATING AS MANUFACTURED BY IKG INDUSTRIES OR APPROVED EQUAL. BEARING BARS TO BE RECTANGULAR CONFIGURATION. BEARING BARS TO BE 1½"x⅛" SPACED ON 1$\frac{3}{16}$" CENTERS. MATERIAL TO BE 6063 ALUMINUM ALLOY.
3. F-9 FASTENERS CAN BE USED TO CONNECT GRATING TO THE SUPPORT SYSTEM USING BOLTS.
4. CONTRACTOR IS RESPONSIBLE FOR PROPER ALIGNMENT BETWEEN THE WALKWAY AND DMS ACCESS DOOR TO ENSURE PROPER OPERATION. ANY CONFLICTS BETWEEN THE DMS ACCESS DOOR AND THE WALKWAY SHALL BE BROUGHT TO THE ATTENTION OF THE PROJECT ENGINEER.
5. MAINTENANCE WALKWAY AND ALL DETAILS TO BE PAID FOR UNDER ITEM NO. 725-20.22.
6. HANGER ARMS SUPPORTING DMS SIGNS OR STATIC SIGNS WILL BE OF A LENGTH EQUAL TO THE HEIGHT OF THE SIGNS BEING SUPPORTED.

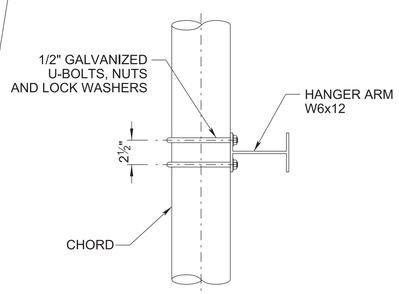
* VERTICAL PLACEMENT OF WALKWAY AND DMS SHALL BE COORDINATED SUCH THAT REQUIRED VERTICAL CLEARANCES ABOVE ROADWAY ARE MAINTAINED AND TOP OF GRATING CLEARS THE BOTTOM OF THE DOOR.

△ HANGER ARMS TO BE PLACED SO THAT THEY DO NOT INTERFERE WITH TRUSS MEMBERS.

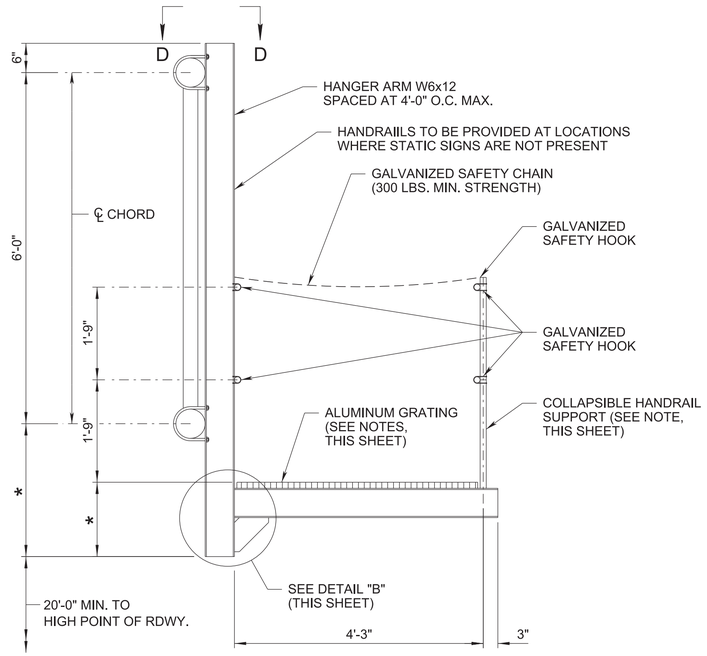
☒ THE MAINTENANCE WALKWAY WILL BE PROVIDED FROM THE OUTSIDE EDGE OF SHOULDER TO THE DMS SIGN.



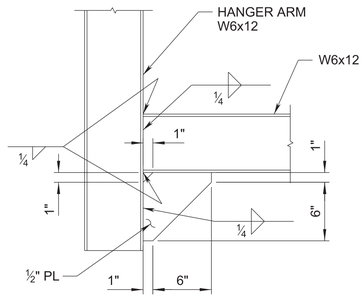
SECTION A-A



SECTION B-B



SECTION C-C



DETAIL "A"

SEALED BY

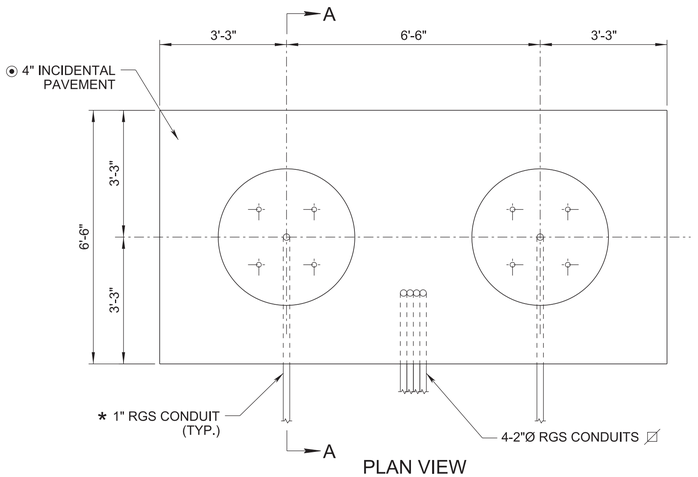


STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

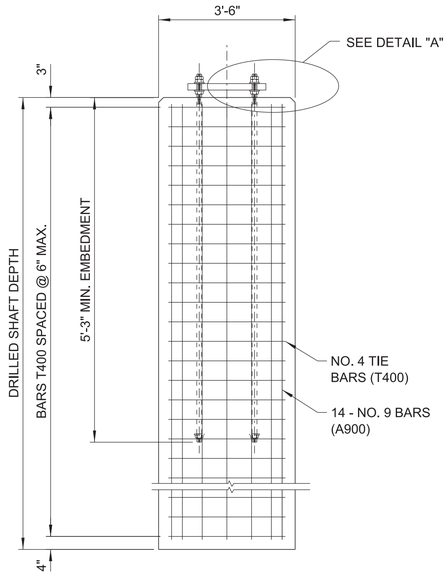
DMS SUPPORT TRUSS WALKWAY DETAILS

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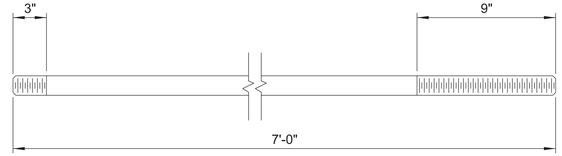
TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	2G9
PS&E	2025	R-NH-385(33)	2G9



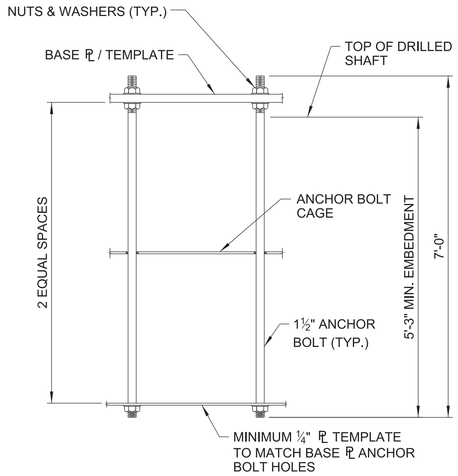
PLAN VIEW



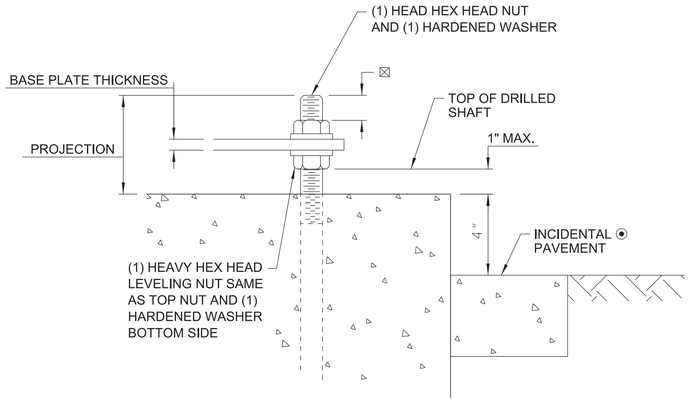
DRILLED SHAFT



ANCHOR BOLT LAYOUT



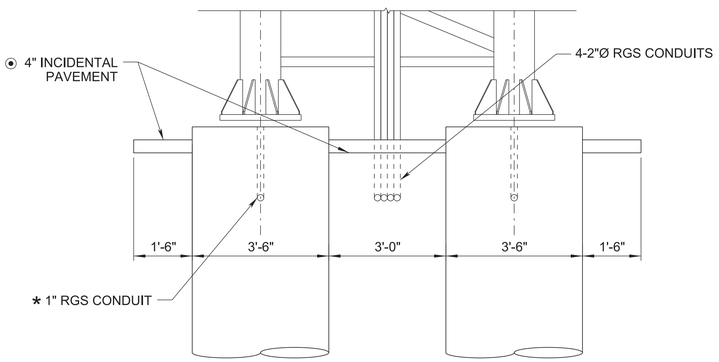
ANCHOR BOLT CAGE LAYOUT



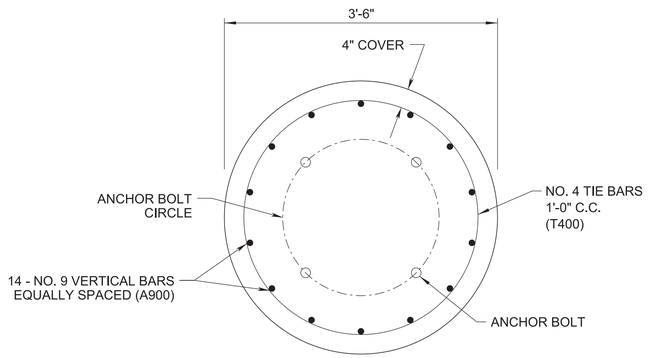
DETAIL "A"

UNDER NO CONDITIONS WILL DRILLING AND GROUTED ANCHOR BOLTS BE ALLOWED

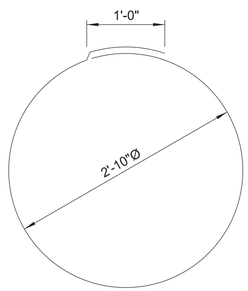
FOUNDATION DETAILS	
STRUCTURE @ STA.	DRILLED SHAFT DEPTH
338+52	25'-0"
427+39	35'-0"
443+24	39'-0"



ELEVATION



SECTION A-A



T400 BARS SHALL LAP 1'-0"

NOTES:

FOR NOTES, SEE STRUCTURAL GENERAL NOTES SHEET.

FOR DMS LOCATIONS, SEE DMS CROSS-SECTIONS SHEET.

FOR BASE PLATE AND ANCHOR BOLT DETAILS, SEE DMS SUPPORT TRUSS CONNECTION DETAIL SHEET.

⊠ 4-2"Ø RGS CONDUITS SHALL BE PROVIDED ON THE OUTSIDE TRUSS SUPPORT. OFFSET CONDUIT TO AVOID POST STRUTS AND DIAGONALS. CONDUITS TO STUB THROUGH INCIDENTAL PAVEMENT.

* 1" RGS CONDUIT SHALL BE PROVIDED FOR GROUNDING. SEE STANDARD DRAWINGS T-S-15 AND T-SG-10 FOR OTHER GROUNDING DETAILS.

ALL CONDUIT ENDS ARE TO BE THREADED AND CAPPED FOR FUTURE USE.

⊙ INCIDENTAL PAVEMENT SHALL BE IN ACCORDANCE WITH TDOT STANDARD SPECIFICATIONS SECTION 701. INCIDENTAL PAVEMENT SHOULD BE 4" MIN. THICKNESS WITH 1064 WWF 4X4 - W4.0XW4.0 MIN. TYP.

⊠ SEE "BASE INSTALLATION" IN STRUCTURAL GENERAL NOTES FOR MIN. THREAD PROJECTION REQUIREMENTS.

SEE STRUCTURAL GENERAL NOTES SHEET FOR SOIL FOUNDATION DESIGN NOTES.

WHEN DRILLED SHAFTS ARE LOCATED IN SLOPING GROUND, INCREASE THE EMBEDMENT LENGTH OF SHAFT EQUAL TO THE PORTION OF SHAFT WITH LESS THAN 2.5D HORIZONTAL SOIL COVER (FACE-OF-SHAFT TO FACE-OF-SLOPE).

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DMS SUPPORT TRUSS FOUNDATION DETAILS

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TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	2H
PS&E	2025	R-NH-385(33)	2H

GUARDRAIL TABULATIONS

DEVICE TYPE AND NO.	SHEET NO.	ROADWAY	STA.		LENGTH OF EXST. G.R. FROM DEVICE TO END (L.F.)	GUARDRAIL REMOVED (PAY ITEM NO. 706-01) (L.F.)	W BEAM GR (TYPE 2) MASH TL-3 (PAY ITEM NO. 705-06.01) (L.F.)	GR TERMINAL TRAILING END (TYPE 13) MASH TL-3 (PAY ITEM NO. 705-06.10) (EACH)	TANGENT ENERGY ABSORBING TERM MASH TL-3 (PAY ITEM NO. 705-06.20) (EACH)	EARTH PAD FOR TYPE 38 GR END TERMINAL (PAY ITEM NO. 705-04.09) (EACH)	NOTES
			FROM	TO							
CCTV CAMERA R4A-SR385-009.4E	14-15	SR-385	223+20	232+08	725	10	162.5	1.0			TIE TO EXISTING GUARDRAIL
DMS R4E-SR385-011.4W WB Outside Shoulder	23	SR-385	338+39	341+59			262.5	1.0	1.0	1.0	
DMS R4E-SR385-011.4W WB Median Shoulder	23	SR-385	338+39	341+09			212.5	1.0	1.0	1.0	
DMS R4E-SR385-013.1W EB Median Shoulder	29-30	SR-385	424+57	427+52			237.5	1.0	1.0	1.0	
DMS R4E-SR385-013.1W WB Outside Shoulder	30	SR-385	427+26	430+46			262.5	1.0	1.0	1.0	
DMS R4E-SR385-013.4E EB Outside Shoulder	30-31	SR-385	429+24	443+37	1413						
DMS R4E-SR385-013.4E EB Median Shoulder	31	SR-385	440+67	443+37			212.5	1.0	1.0	1.0	
CCTV CAMERA R4A-SR385-014.0E	33	SR-385	469+68	471+63			137.5	1.0	1.0	1.0	
TOTALS					**2138**	**10**	**1,487.5**	**7.0**	**6.0**	**6.0**	

FOOTNOTE:

1. END TERMINAL FOR EXISTING GUARDRAIL ON SHEET 15 TO BE REMOVED IN ORDER TO EXTEND STANDARD W BEAM GUARDRAIL BEYOND DEVICE SITE.

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GUARDRAIL TABULATIONS

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TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	2J
PS&E	2025	R-NH-385(33)	2J

LEGEND

EXISTING TMC/HUB LOCATION

PROPOSED ITS COMMUNICATIONS HUB BUILDING LOCATION

FUTURE ITS COMMUNICATIONS HUB BUILDING LOCATION

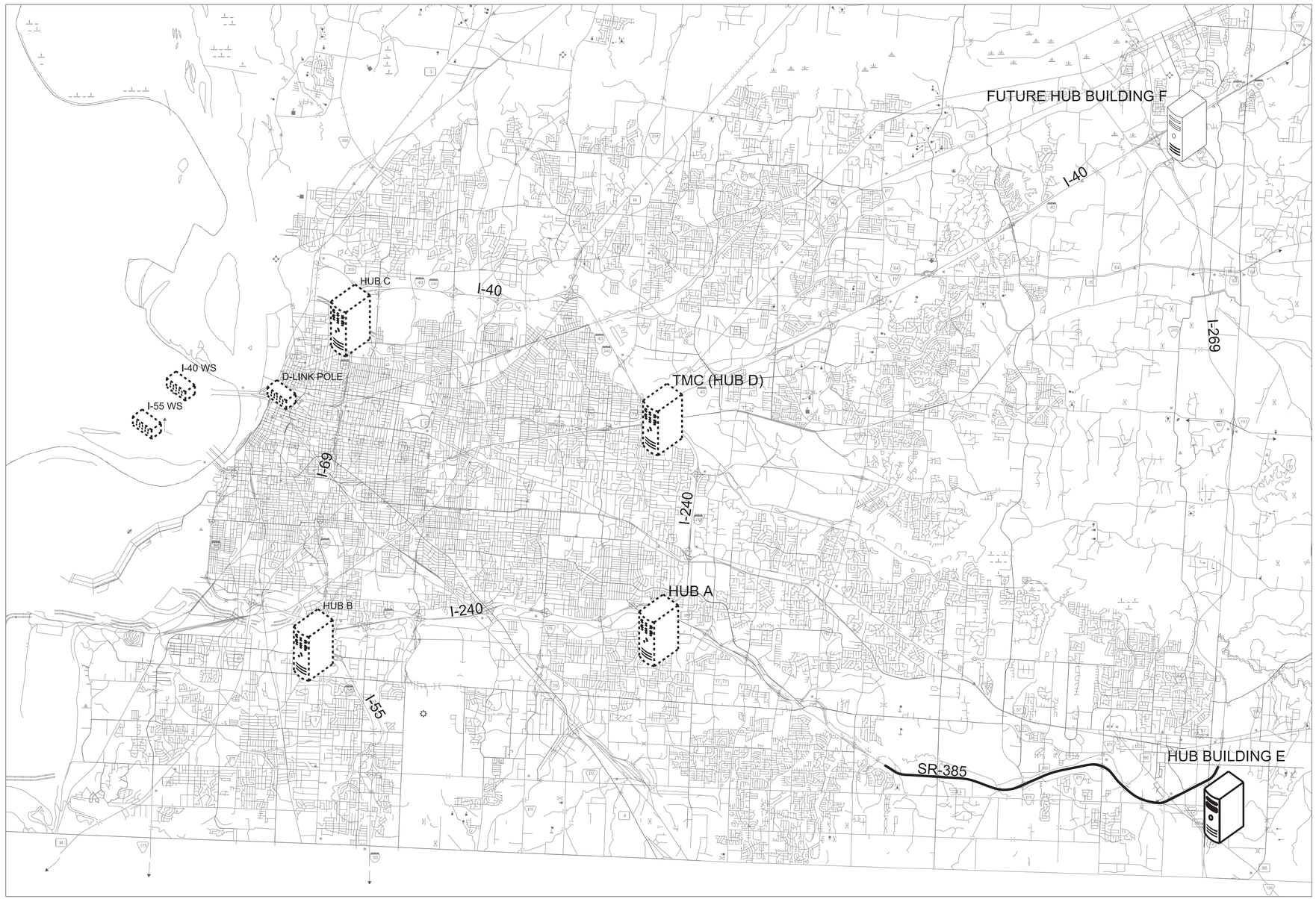
FIELD/TERMINAL JUNCTION LOCATION

COMMUNICATIONS CONNECTION

FJX = FIELD JUNCTION

XXX-YYY = CABLE ID

ALL NEW BACKBONE FIBER CABLES 144 SINGLE MODE. ALL FIBERS TERMINATE ON FIBER DISTRIBUTION UNITS IN EACH FIELD JUNCTION.
SEE SPLICE DETAILS FOR END OF RUN SPLICES.



N

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COMMUNICATIONS ARCHITECTURE DIAGRAM

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TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	2J1
PS&E	2025	R-NH-385(33)	2J1

LEGEND

- TYPE E PULL BOX WITH SPLICE CLOSURE
- EQUIPMENT CABINET WITH PRETERMINATED DROP
- PROPOSED ITS COMMUNICATIONS HUB BUILDING
- EXISTING TYPE E PULL BOX WITH SPLICE CLOSURE
- EXISTING EQUIPMENT CABINET WITH PRETERMINATED DROP
- TRUNK CABLE
- DROP CABLE
- X — CHANNEL NUMBER

TO EXISTING HUB A AT I-240

DROP TYPE 4 DETAIL SR-385 STA 122+81
- HAR TRANSMITTER R4K-SR385-007.4E (X)

DROP TYPE 1 DETAIL SR-385 STA 171+59
- (SITE 1) CCTV R4A-SR385-008.3W CCTV R4B-SR385-008.3W RDS R4G-SR385-008.3W (X)

DROP TYPE 2 DETAIL SR-385 STA 231+79
- (SITE 2) CCTV R4A-SR385-009.4E RDS R4G-SR385-009.4E ESS R4Y-SR385-009.4E (X)

DROP TYPE 1 DETAIL SR-385 STA 287+45
- (SITE 3) CCTV R4A-SR385-010.4E CCTV R4B-SR385-010.4E RDS R4G-SR385-010.4E (X)

DROP TYPE 3 DETAIL SR-385 STA 338+52
- (SITE 4) DMS R4E-SR385-011.4W) (X)
- (SITE 4) CCTV R4A-SR385-011.5W RDS R4G-SR385-011.5W ESS R4Y-SR385-011.5W (X)

DROP TYPE 2 DETAIL SR-385 STA 393+40
- (SITE 5) CCTV R4A-SR385-012.5W CCTV R4B-SR385-012.5W (X)

DROP TYPE 1 DETAIL SR-385 STA 427+39
- (SITE 6) DMS R4E-SR385-013.1W) (X)

DROP TYPE 3 DETAIL SR-385 STA 439+63
- (SITE 7) CCTV R4A-SR385-013.4E RDS R4G-SR385-013.4E ESS R4Y-SR385-013.4E (X)
- (SITE 7) DMS R4E-SR385-013.4E (X)

DROP TYPE 2 DETAIL SR-385 STA 471+50
- (SITE 8) CCTV R4A-SR385-014.0E RDS R4G-SR385-014.0E (X)

DROP TYPE 1 DETAIL SR-385 STA 500+96
- (SITE 9) CCTV R4A-SR385-014.6E CCTV R4B-SR385-014.6E RDS R4G-SR385-014.6E (X)

DROP TYPE 2 DETAIL SR-385 STA 543+12
- (SITE 10) CCTV R4A-SR385-015.3E CCTV R4B-SR385-015.3E ESS R4Y-SR385-015.3E (X)

HUB BUILDING E SR-385/I-269 STA 549+75
- (SITE 11) CCTV R4A-SR385-015.6E CCTV R4B-SR385-015.6E (X)

NOTES:

1. CONTRACTOR SHALL COORDINATE WITH THE REGION 4 TMC TO OBTAIN THE CORRECT CHANNEL NUMBER FOR EACH DEVICE SITE.
2. CONTRACTOR SHALL COORDINATE WITH THE REGION 4 TMC PRIOR TO SPLICING FIBER.

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COMMUNICATIONS SCHEMATIC LAYOUT

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TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	2J2
PS&E	2025	R-NH-385(33)	2J2

NETWORK SWITCH LOCATIONS W/ SUPPORTED EQUIPMENT

SHEET NUMBER	SWITCH LOCATION	CHANNEL	DROP TYPE	SWITCH TYPE	STATION	DMS	CCTV	CCTV	RDS	ESS
10	CCTV CAMERA R4A-SR385-008.3W (SITE 1)	X	1	IE 3400	171+59		R4A-SR385-008.3W	R4B-SR385-008.3W	R4G-SR385-008.3W	
15	CCTV CAMERA R4A-SR385-009.4E (SITE 2)	X	2	IE 3400	231+79		R4A-SR385-009.4E		R4G-SR385-009.4E	R4Y-SR385-009.4E
19	CCTV CAMERA R4A-SR385-010.4E (SITE 3)	X	1	IE 3400	287+45		R4A-SR385-010.4E	R4B-SR385-010.4E	R4G-SR385-010.4E	
23	DMS R4E-SR385-011.4W (SITE 4)	X	3	IE 3400	338+52	R4E-SR385-011.4W				
23	CCTV CAMERA R4A-SR385-011.5W (SITE 4)	X	3	IE 3400	340+57		R4A-SR385-011.5W		R4G-SR385-011.5W	R4Y-SR385-011.5W
27	CCTV CAMERA R4A-SR385-012.5W (SITE 5)	X	2	IE 3400	393+40		R4A-SR385-012.5W	R4B-SR385-012.5W		
30	DMS R4E-SR385-013.1W (SITE 6)	X	1	IE 3400	427+39	R4E-SR385-013.1W				
31	CCTV CAMERA R4A-SR385-013.4E (SITE 7)	X	3	IE 3400	439+63		R4A-SR385-013.4E		R4G-SR385-013.4E	R4Y-SR385-013.4E
31	DMS R4E-SR385-013.4E (SITE 7)	X	3	IE 3400	443+24	R4E-SR385-013.4E				
33	CCTV CAMERA R4A-SR385-014.0E (SITE 8)	X	2	IE 3400	471+50		R4A-SR385-014.0E		R4G-SR385-014.0E	
35	CCTV CAMERA R4A-SR385-014.6E (SITE 9)	X	1	IE 3400	500+96		R4A-SR385-014.6E	R4B-SR385-014.6E	R4G-SR385-014.6E	
39	CCTV CAMERA R4A-SR385-015.3E (SITE 10)	X	2	IE 3400	543+12		R4A-SR385-015.3E	R4B-SR385-015.3E		R4Y-SR385-015.3E
39	ITS COMMUNICATIONS HUB BUILDING E	X	N/A	CATALYST 9500	549+75					
40	CCTV CAMERA R4A-SR385-015.6E (SITE 11)	X	N/A	IE 3400	557+37		R4A-SR385-015.6E	R4B-SR385-015.6E		

LAYER 3 NETWORK SWITCH LINKS AND SFP REQUIREMENTS

LOCATION	SWITCH TYPE	LINK	BUFFER TUBE	FIBER PAIR	GEOGRAPHIC LINK LENGTH	LINK TYPE
HUB A	CATALYST 3850	HUB A TO SITE 1	BROWN	BLUE-ORANGE	14 KM	1 GBPS EX
HUB A	CATALYST 3850	HUB A TO SITE 2	BROWN	SLATE-WHITE	15 KM	1 GBPS EX
HUB A	CATALYST 3850	HUB A TO HUB E	BROWN	ROSE-AQUA	25 KM	10 GBPS ZR
TMC/HUB D	NEXUS 9500	CORE 1 TO HUB E	SLATE	BLUE-ORANGE	33 KM	10 GBPS ZR
TMC/HUB D	NEXUS 9500	CORE 2 TO HUB E	SLATE	GREEN-BROWN	33 KM	10 GBPS ZR
HUB E	CATALYST 9500	HUB E TO EXISTING HAR R4K-SR385-007.4E	BLUE	YELLOW-VIOLET	13 KM	1 GBPS EX
HUB E	CATALYST 9500	HUB E TO SITE 9	BROWN	BLUE-ORANGE	2 KM	1 GBPS LX
HUB E	CATALYST 9500	HUB E TO SITE 10	BROWN	SLATE-WHITE	1 KM	1 GBPS LX
HUB E	CATALYST 9500	HUB E TO SITE 11	BLUE	BLUE-ORANGE	1 KM	1 GBPS LX
HUB E	CATALYST 9500	HUB E TO HUB A	BROWN	ROSE-AQUA	25 KM	10 GBPS ZR
HUB E	CATALYST 9500	HUB E TO CORE 1	SLATE	BLUE-ORANGE	33 KM	10 GBPS ZR
HUB E	CATALYST 9500	HUB E TO CORE 2	SLATE	GREEN-BROWN	33 KM	10 GBPS ZR

NOTES:

1. THE CONTRACTOR SHALL CONTACT THE TDOT REGION 4 TMC TO OBTAIN THE IP ADDRESSES FOR ALL NEW DEVICES INSTALLED IN THIS PROJECT.

2. ALL SFP MODULES REQUIRED FOR THE LAYER 3 NETWORK SWITCH IN HUB E SHALL BE PAID FOR AS PART OF THE NETWORK SWITCH (TYPE B) PAY ITEM. ALL SFP MODULES REQUIRED IN HUB A AND TMC/HUB D SHALL BE PAID FOR AS PART OF THE NETWORK INTEGRATION PAY ITEM.

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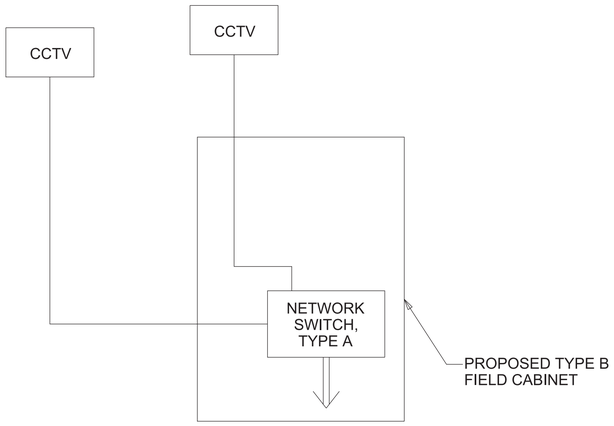


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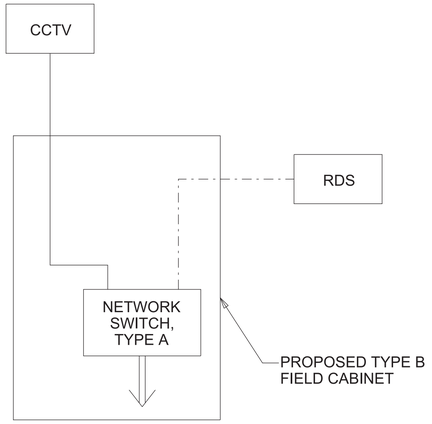
NETWORK SWITCH LOCATIONS

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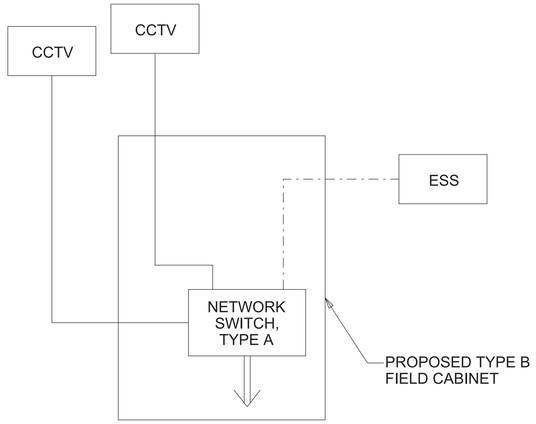
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ROW	2022	NH-385(33)	2J3
PS&E	2025	R-NH-385(33)	2J3



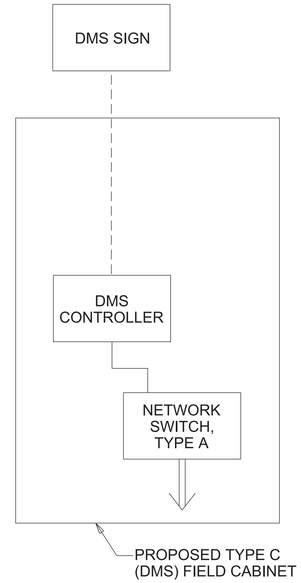
TYPICAL PROPOSED CCTVS



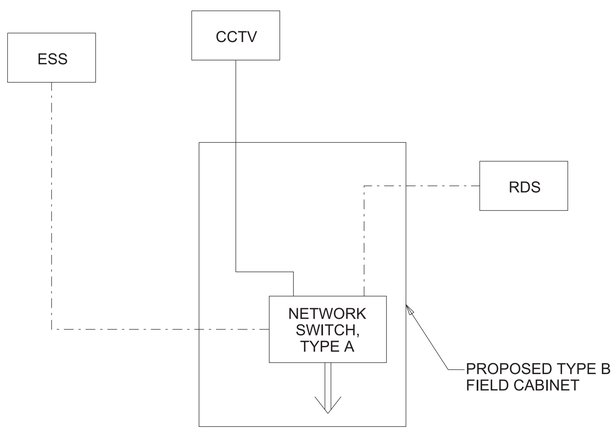
TYPICAL PROPOSED CCTV WITH ONE PROPOSED RDS



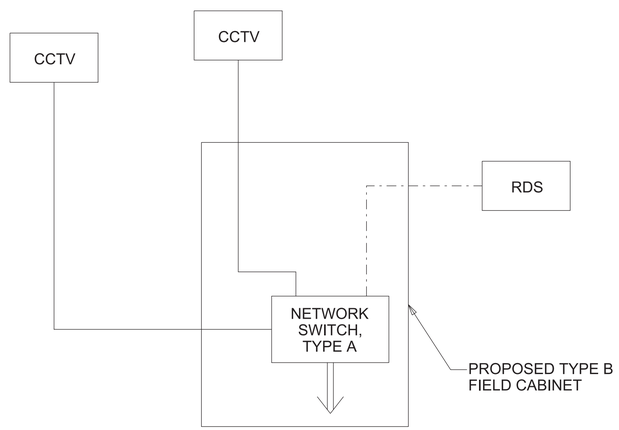
TYPICAL PROPOSED CCTVS WITH ONE PROPOSED ESS



TYPICAL PROPOSED DMS



TYPICAL PROPOSED CCTV WITH ONE PROPOSED RDS AND ESS



TYPICAL PROPOSED CCTVS WITH ONE PROPOSED RDS

LEGEND

- POWER/DATA CABLE
- ETHERNET 10 / 1000 TX (CAT 6 CABLE)
- OPTICAL ETHERNET 1000 BASE FX (SINGLE MODE FIBER)
- MANUFACTURER SPECIFIC CABLES
- PROPOSED EQUIPMENT
- EXISTING EQUIPMENT

NOTE: NOT EVERY WIRING/COMM DETAIL MAY BE DEPICTED HERE. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO INFORM THE ENGINEER OF ANY CHANGES OR MODIFICATIONS IN THE FIELD.

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7/9/2025

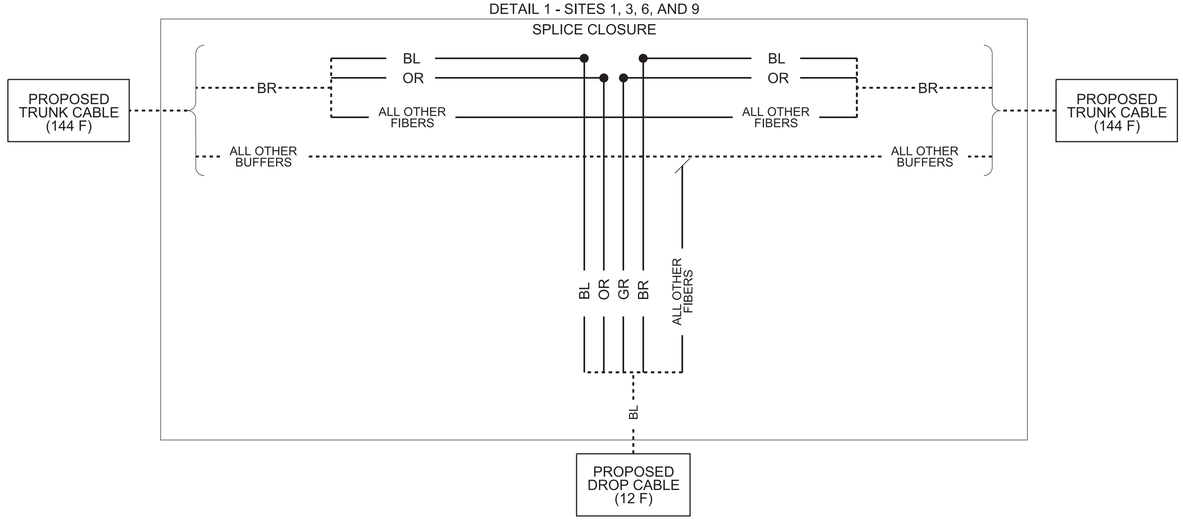
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COMMUNICATION EQUIPMENT BLOCK DIAGRAMS

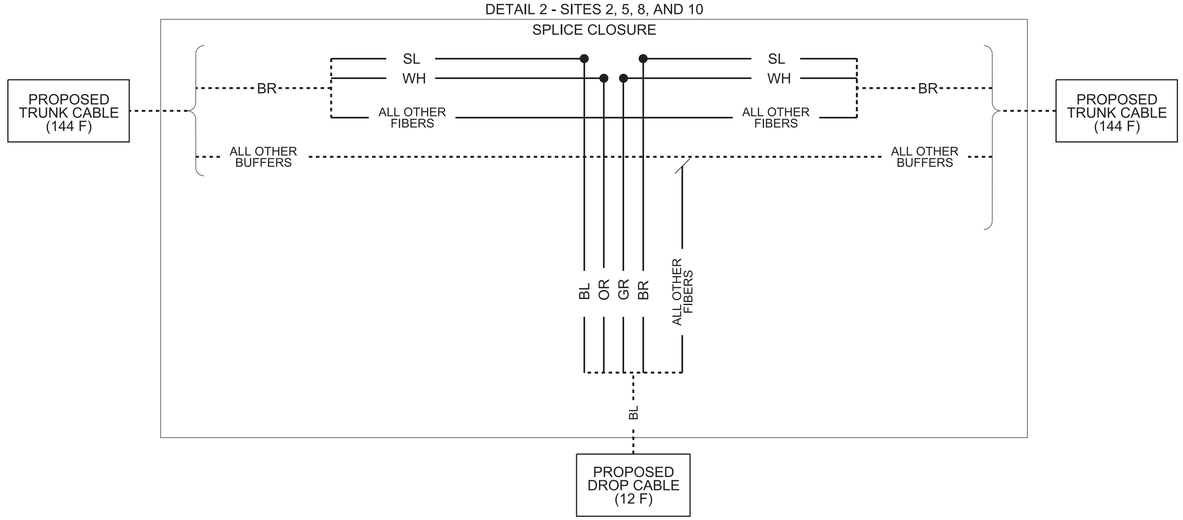
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TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	2J4
PS&E	2025	R-NH-385(33)	2J4

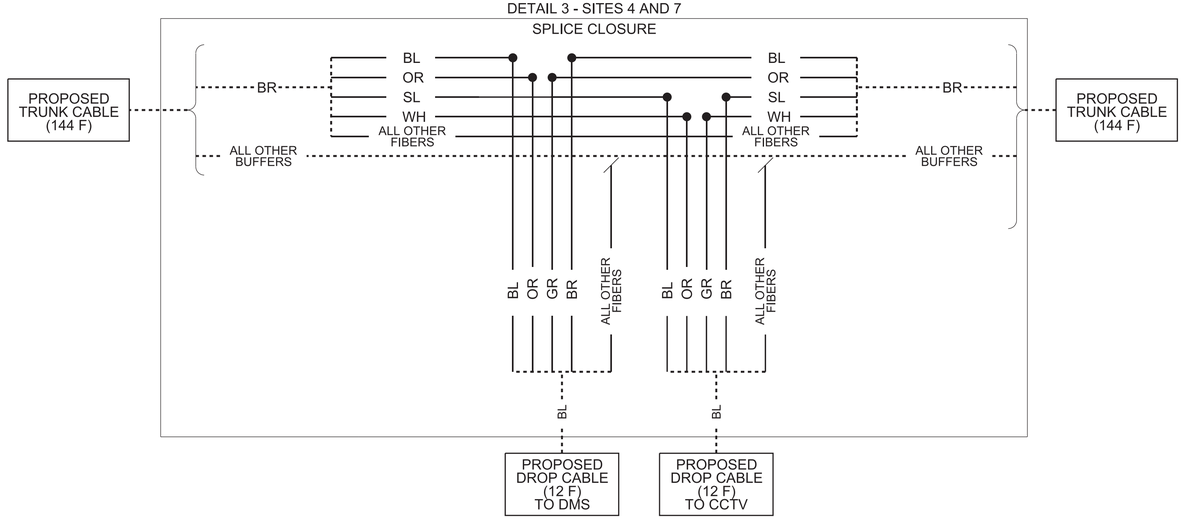
DETAIL 1 - SITES 1, 3, 6, AND 9



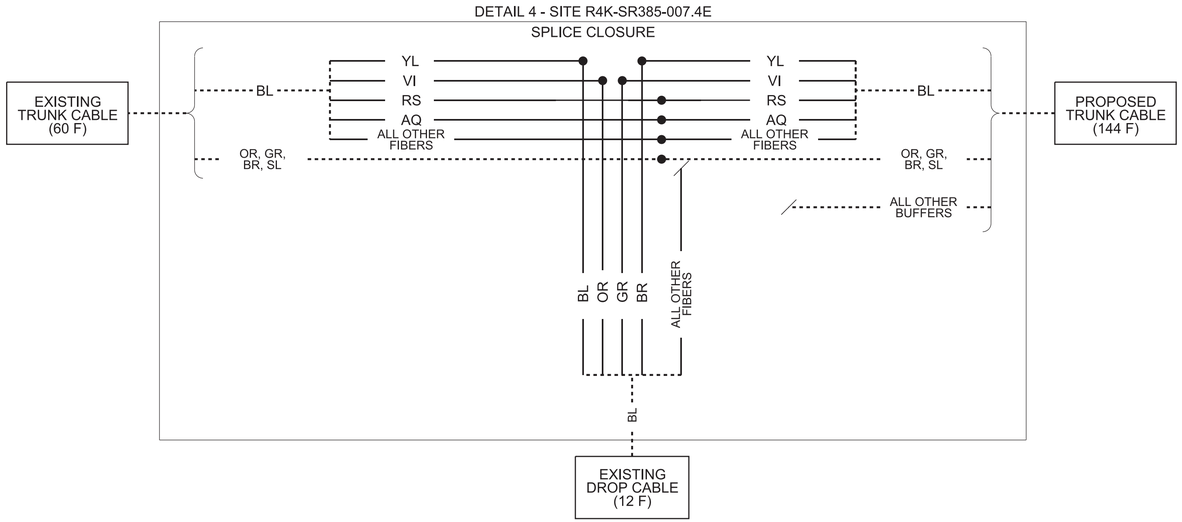
DETAIL 2 - SITES 2, 5, 8, AND 10



DETAIL 3 - SITES 4 AND 7



DETAIL 4 - SITE R4K-SR385-007.4E



LEGEND

- FO CABLE
- FO BUFFER
- FO FIBER
- FUSION SPLICE
- UNTERMINATED FIBER(S) OR BUFFER(S)

NOTES:

1. BLUE BUFFER TUBE ON SR-385 IS BEING USED FOR EXISTING DEVICES. BROWN BUFFER TUBE ON SR-385 IS BEING USED FOR NEW DEVICES.
2. CONTRACTOR SHALL COORDINATE WITH THE REGION 4 TMC PRIOR TO SPLICING FIBER.
3. SPLICE DETAIL 4 SHALL NOT BE EXECUTED UNTIL THE LAYER 3 NETWORK SWITCH IS SETUP AT HUB E TO PASS TRAFFIC BACK TO THE REGION 4 TMC/HUB D. CONTRACTOR SHALL COORDINATE THIS SWITCHOVER WITH THE REGION 4 TMC TO SCHEDULE AND MINIMIZE DOWNTIME OF EXISTING DEVICES.

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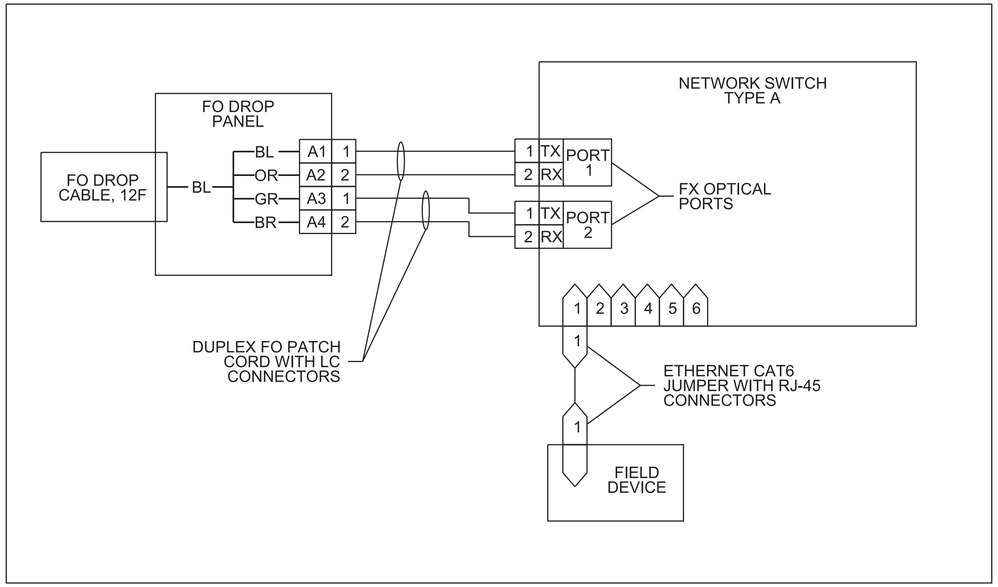


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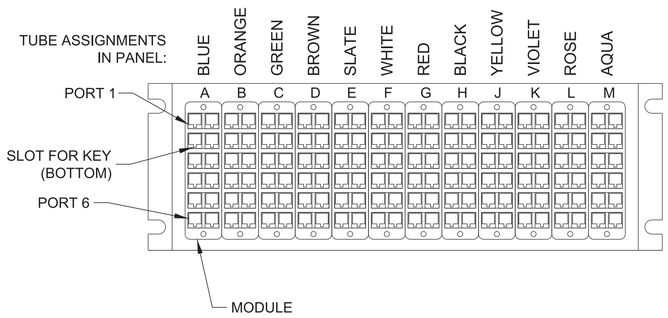
FIBER OPTIC SPLICING DETAILS

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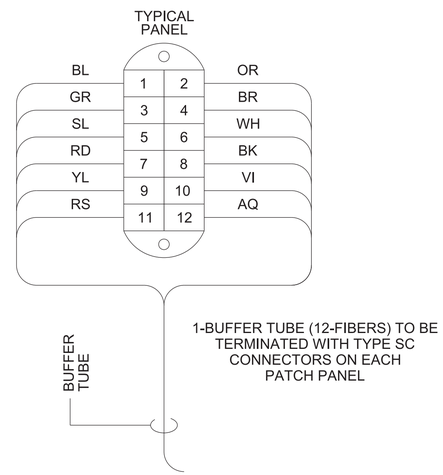
TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	2J5
PS&E	2025	R-NH-385(33)	2J5



CABINET FIBER OPTIC TERMINATION

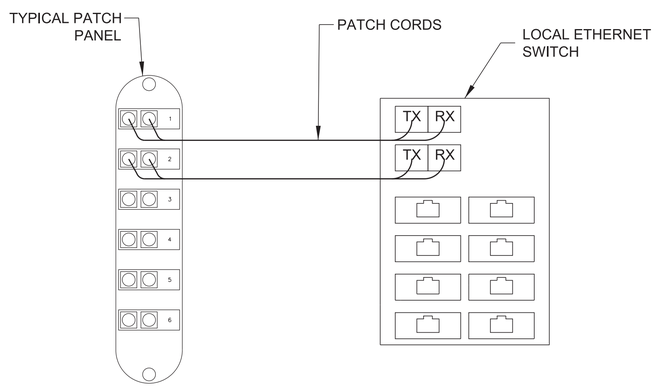


FIBER OPTIC TERMINATION CABINET (VERTICAL CONNECTOR MODULE)



TYPICAL FIBER TERMINATION FOR EACH BUFFER TUBE

SCALE: NONE



TYPICAL DEVICE CONNECTION

SCALE: N.T.S.

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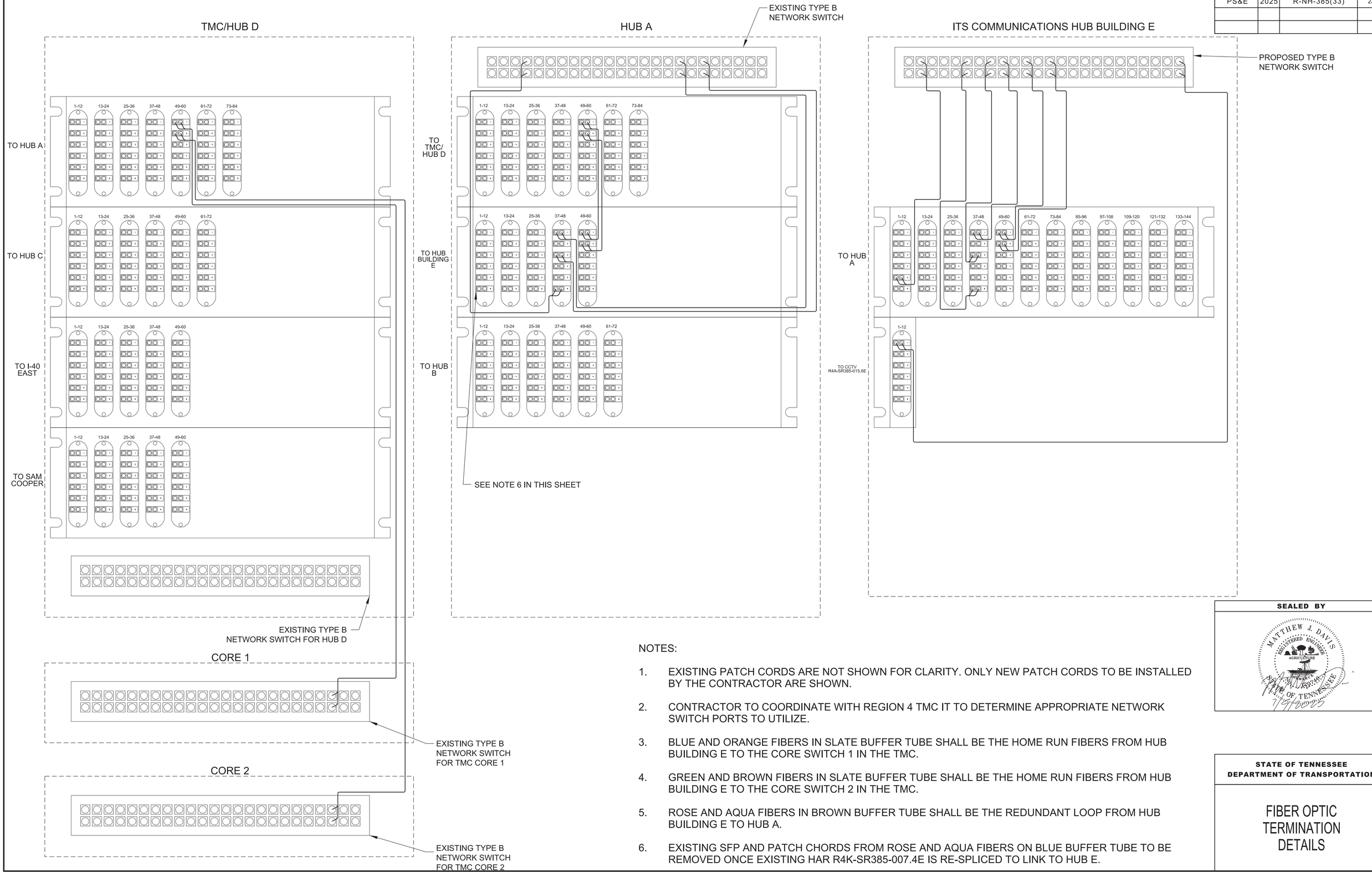


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FIBER OPTIC TERMINATION DETAILS

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TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	2J6
PS&E	2025	R-NH-385(33)	2J6



NOTES:

1. EXISTING PATCH CORDS ARE NOT SHOWN FOR CLARITY. ONLY NEW PATCH CORDS TO BE INSTALLED BY THE CONTRACTOR ARE SHOWN.
2. CONTRACTOR TO COORDINATE WITH REGION 4 TMC IT TO DETERMINE APPROPRIATE NETWORK SWITCH PORTS TO UTILIZE.
3. BLUE AND ORANGE FIBERS IN SLATE BUFFER TUBE SHALL BE THE HOME RUN FIBERS FROM HUB BUILDING E TO THE CORE SWITCH 1 IN THE TMC.
4. GREEN AND BROWN FIBERS IN SLATE BUFFER TUBE SHALL BE THE HOME RUN FIBERS FROM HUB BUILDING E TO THE CORE SWITCH 2 IN THE TMC.
5. ROSE AND AQUA FIBERS IN BROWN BUFFER TUBE SHALL BE THE REDUNDANT LOOP FROM HUB BUILDING E TO HUB A.
6. EXISTING SFP AND PATCH CHORDS FROM ROSE AND AQUA FIBERS ON BLUE BUFFER TUBE TO BE REMOVED ONCE EXISTING HAR R4K-SR385-007.4E IS RE-SPLICED TO LINK TO HUB E.

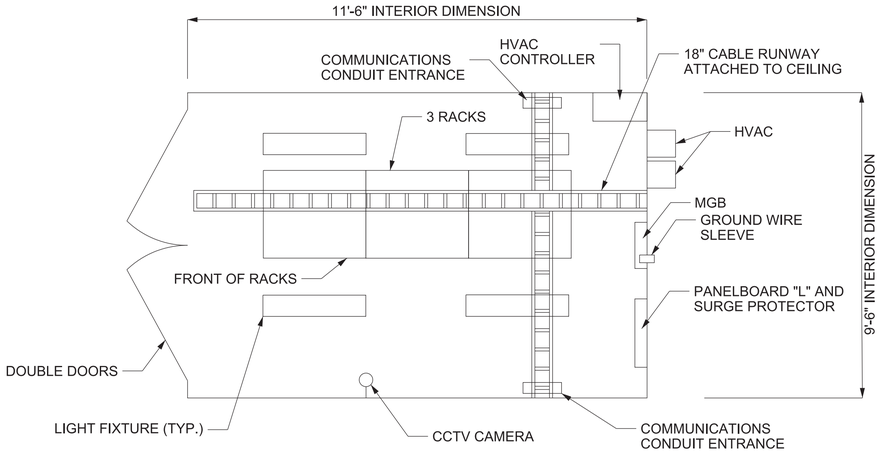
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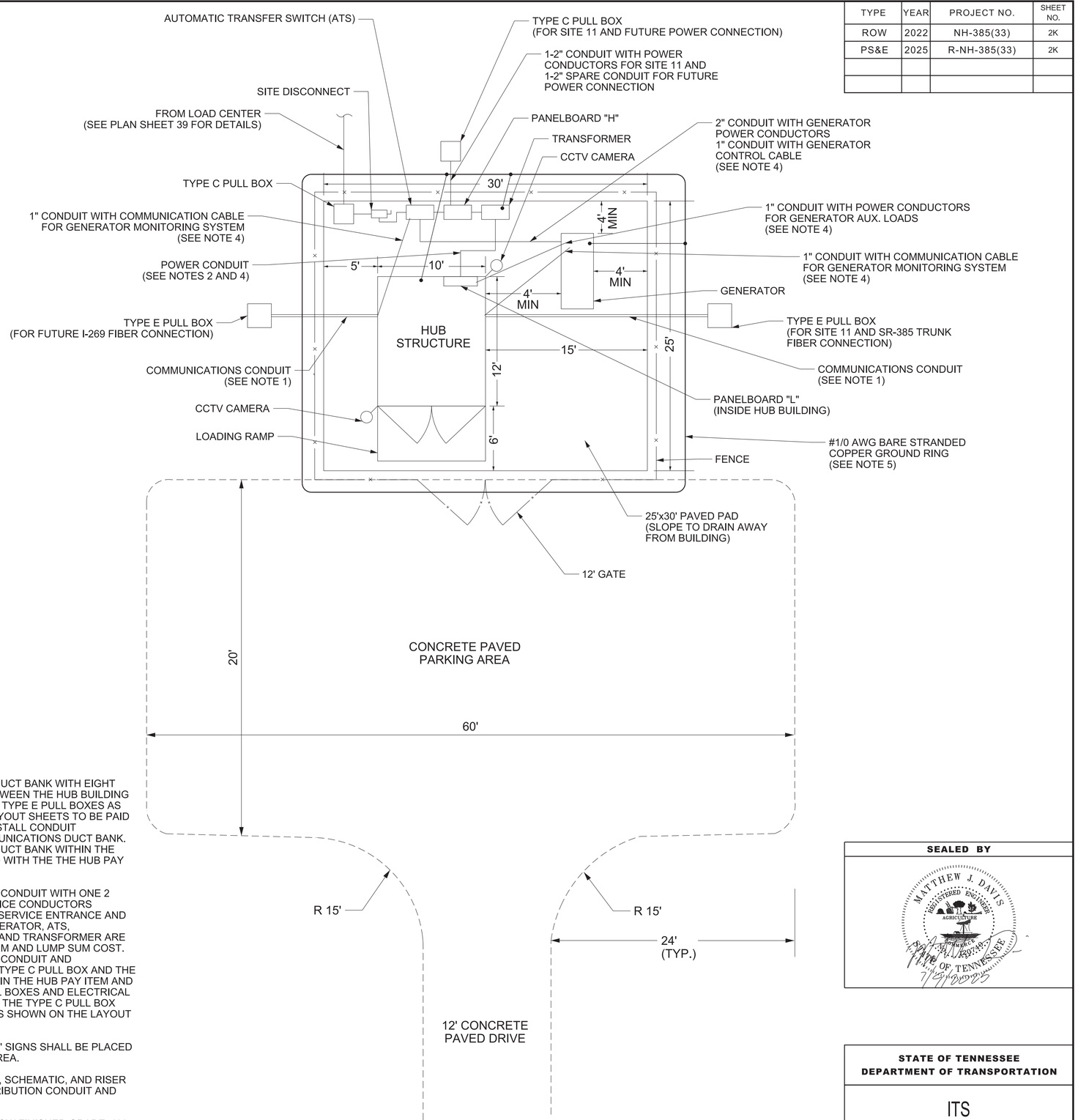
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TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	2K
PS&E	2025	R-NH-385(33)	2K



ITS COMMUNICATIONS HUB BUILDING LAYOUT
PLAN VIEW



TYPICAL PLAN VIEW
FOR HUB STRUCTURE
SCALE: N.T.S.



(SEE NOTE 3)



R5-11
30"x24"

NOTES:

1. COMMUNICATIONS CONDUIT DUCT BANK WITH EIGHT 1-1/4 INCH PVC CONDUITS BETWEEN THE HUB BUILDING CONDUIT ENTRANCE AND THE TYPE E PULL BOXES AS SHOWN HERE AND ON THE LAYOUT SHEETS TO BE PAID FOR SEPARATELY. DO NOT INSTALL CONDUIT DETECTION WIRE WITH COMMUNICATIONS DUCT BANK. COMMUNICATIONS CONDUIT DUCT BANK WITHIN THE HUB STRUCTURE IS INCLUDED WITH THE THE HUB PAY ITEM AND LUMP SUM COST.
2. ELECTRICAL SERVICE POWER CONDUIT WITH ONE 2 INCH PVC CONDUIT AND SERVICE CONDUCTORS BETWEEN THE HUB BUILDING SERVICE ENTRANCE AND THE TRANSFORMER. THE GENERATOR, ATS, DISCONNECT, PANELBOARDS AND TRANSFORMER ARE INCLUDED IN THE HUB PAY ITEM AND LUMP SUM COST. ELECTRICAL SERVICE POWER CONDUIT AND CONDUCTORS BETWEEN THE TYPE C PULL BOX AND THE HUB BUILDING ARE INCLUDED IN THE HUB PAY ITEM AND LUMP SUM COST. TYPE C PULL BOXES AND ELECTRICAL CABLE FROM THE DEMARC TO THE TYPE C PULL BOX ARE PAID FOR SEPARATELY AS SHOWN ON THE LAYOUT SHEETS.
3. "VIDEO SURVEILLANCE IN USE" SIGNS SHALL BE PLACED ON ALL 4 SIDES OF FENCED AREA.
4. REFER TO ONE-LINE DIAGRAM, SCHEMATIC, AND RISER FOR COMPLETE POWER DISTRIBUTION CONDUIT AND CONDUCTOR DETAILS.
5. ROUTE GROUND RING 30" BELOW FINISHED GRADE. ALL CONNECTIONS SHALL BE EXOTHERMIC WELD. INSTALL 3/4" X 10' GROUND RODS IN GROUND WELLS NEAR EACH FENCE CORNER. MAKE GROUNDING ELECTRODE CONDUCTOR CONNECTIONS AS INDICATED ON ONE-LINE AND SCHEMATIC.

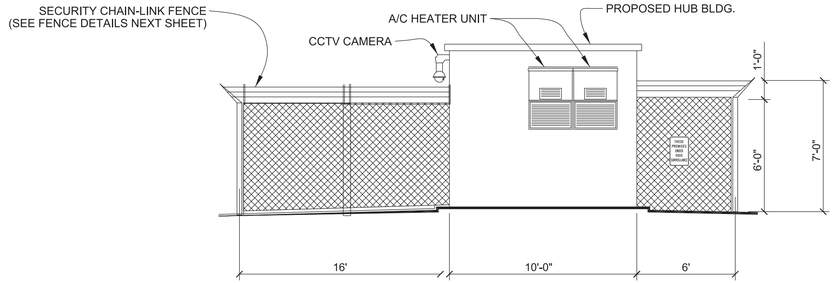
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ITS COMMUNICATIONS HUB BUILDING DETAILS

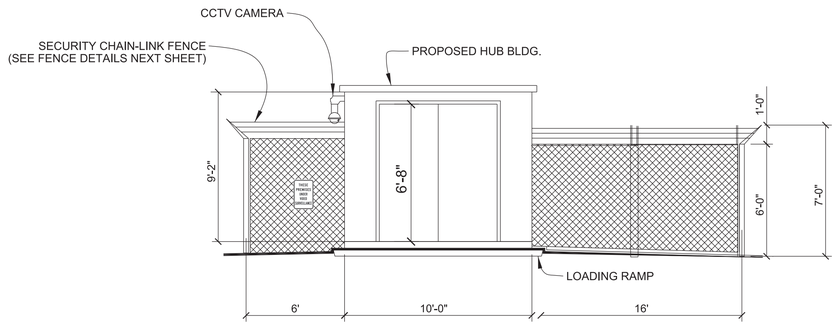
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TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	2K1
PS&E	2025	R-NH-385(33)	2K1



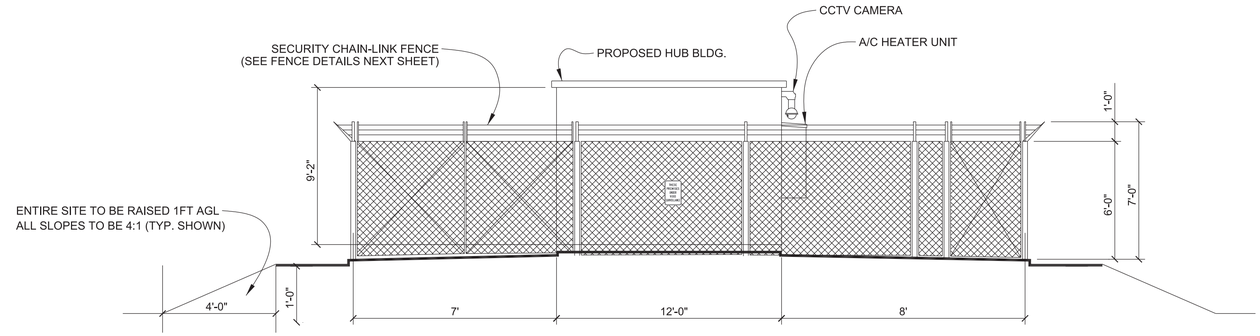
1 ELEVATION - LOOKING SOUTHEAST*

SCALE: N.T.S



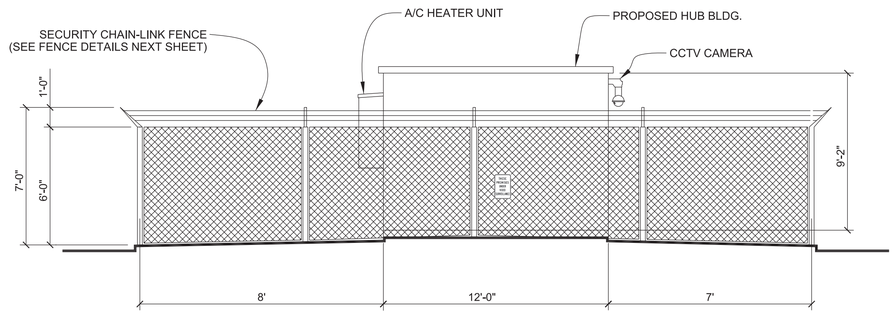
2 ELEVATION - LOOKING NORTHWEST*

SCALE: N.T.S.



3 ELEVATION - LOOKING SOUTHWEST*

SCALE: N.T.S.



4 ELEVATION - LOOKING NORTHEAST*

SCALE: N.T.S.

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ITS COMMUNICATIONS HUB BUILDING DETAILS

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TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	2K2
PS&E	2025	R-NH-385(33)	2K2

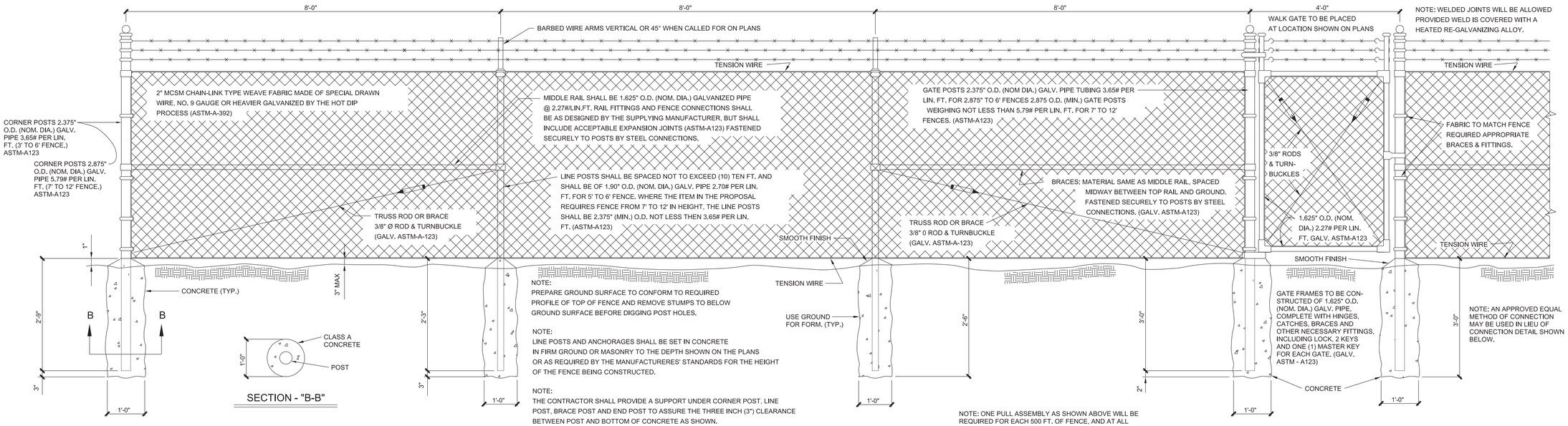
NOTE:
WHEN BARBED WIRE ARMS ARE NOT REQUIRED POSTS SHALL BE PROVIDED WITH STANDARD BARBED WIRE ARM BASES SO DESIGNED THAT BARBED WIRE ARMS AND BARBED WIRE MAY BE ADDED AT A LATER DATE IF DESIRED. THESE BASES SHALL BE SO DESIGNED THAT ARMS MAY BE ADDED (EITHER VERTICAL OR FACING EITHER WAY AT 45 'ANGLE) REQUIRING A MINIMUM AMOUNT OF ADDITIONAL WORK, (MALLEABLE IRON GALVANIZED ASTM-A-123)

NOTE: FABRIC SHALL BE FASTENED TO LINE POST WITH PROPER TIES SPACED APPROXIMATELY 12" APART. FABRIC SHALL BE ATTACHED TO TOP RAIL WITH TIES SPACED APPROX. 15" APART.

BARBED WIRE

WHERE THE ITEM PROVIDED INDICATES BARBED WIRE BEING REQUIRED PLACE THREE LINES OF TWO (2) STRAND 12-1/2 GAUGE, LOCKED FOUR (4) POINTS, 5" SPACING GALVANIZED BARBED WIRE (CL,-3, A.S.T.M. - A121.)

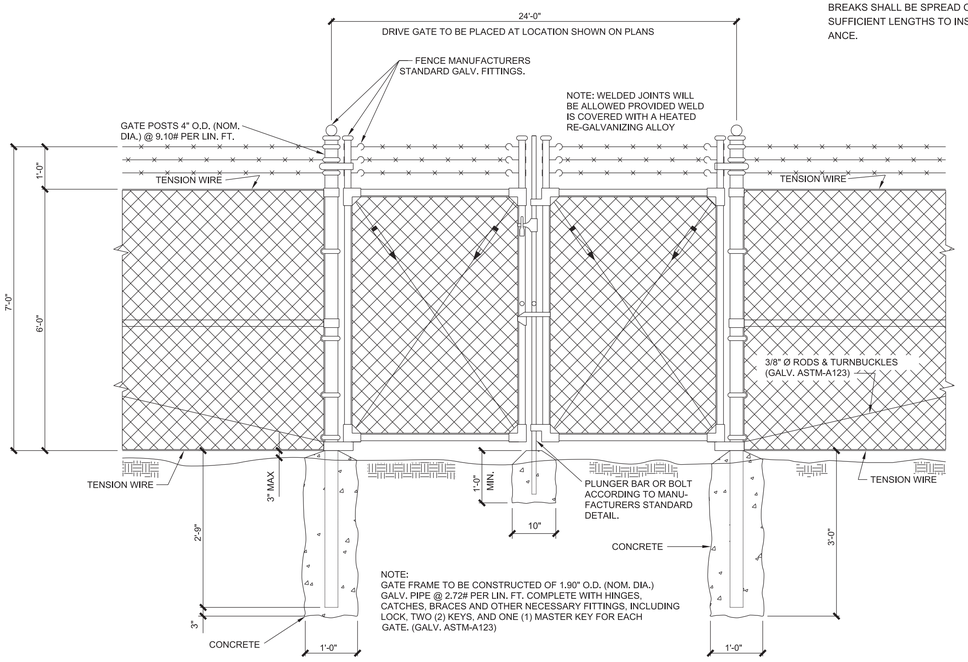
NOTE: WHEN BARBED WIRE IS DESIGNATED FOR USE ABOVE FENCE, IT SHALL ALSO BE USED ABOVE GATES.



1 END & CORNER POST
NOT TO SCALE

2 LINE POST
NOT TO SCALE

3 GATE POSTS
NOT TO SCALE

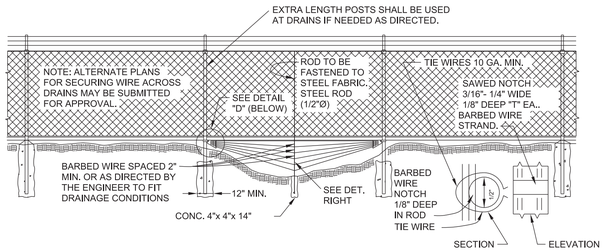


4 DRIVE GATES
NOT TO SCALE

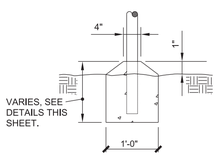
NOTE: WHERE BREAKS IN PROFILE OF FENCE TOP ARE NECESSARY IN ROUGH TERRAIN, THEY SHALL BE MADE IN THE LEAST NUMBER OF INTERVALS PRACTICAL. BREAKS SHALL BE SPREAD OVER VERTICAL CURVES OF SUFFICIENT LENGTHS TO INSURE A PLEASING APPEARANCE.

SETTING FENCE

ALL CONSTRUCTION METHODS AND EQUIPMENT EMPLOYED IN THE SETTING OF FENCE SHALL BE IN ACCORDANCE WITH REQUIREMENTS OF THE SPECIFICATIONS OF THE MANUFACTURER OF THE FENCE MATERIAL BEING USED AND SUCH THAT THE RESULTING STRUCTURE WILL PROVIDE THE EXPECTED SERVICE AND BE DURABLE AND COMPLETE IN EVERY DETAIL.

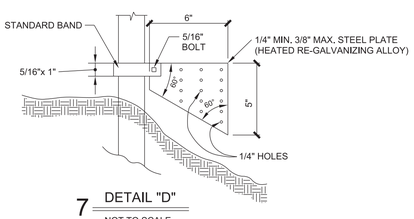


5 FENCE ARRANGEMENT AT SMALL DRAINS
NOT TO SCALE



6 POST EMBEDMENT & FINISHING DETAIL
NOT TO SCALE

NOTE: CONCRETE FOR BRACE, CORNER, AND GATE POSTS SHALL BE CLASS "A" IN ACCORDANCE WITH SECTION 604 OF THE STANDARD SPECIFICATIONS AND OF SIZE AND DIMENSION AS SHOWN.



7 DETAIL "D"
NOT TO SCALE

NOTES:
1. "H" OR SQUARE SECTIONS FOR STEEL POSTS OF THE FOLLOWING SIZES AND WEIGHTS ARE ACCEPTABLE FOR USE IN LIEU OF POSTS SHOWN ON THIS DRAWING:
   a. LINE POST 1.875x1.625x.113 "H" SECTION @ 2.70 POUNDS PER LIN. FT. FOR FENCE 3' TO 5' IN HEIGHT.
   b. LINE POST 2.25x1.95x.143 "H" SEC @ 4.1 POUNDS PER LIN. FT. FOR FENCE 7' TO 12' IN HEIGHT.
   c. MIDDLE RAIL 1.5x1.3125x.125 "H" SECTION @ 2.27 POUNDS PER LIN. FT.
   d. CORNER POSTS 2"x2" SQUARE TUBING @ 3.85 POUNDS PER LIN. FT. FOR FENCE 3' TO 6' IN HEIGHT.
   e. CORNER POSTS 2.6"x 2.5" SQUARE TUBING @ 5.70 POUNDS PER LIN. FT. FOR FENCE 7' TO 12' IN HEIGHT.
   f. GATE POSTS (DRIVE f. GATES) 3"X 3" SQUARE TUBING @ 9.10 POUNDS PER LIN. FT.,
   g. GATE POSTS (WALK g. GATES) 2.5" SQUARE TUBING @ 5.70 POUNDS PER LIN. FT..
   h. WIRE TIES AND TENSION h. WIRES: h. WIRE, FABRIC TIES, h. WIRE TIES AND TENSION WIRE FOR USE IN CONJUNCTION WITH A GIVEN TYPE FABRIC SHALL BE OF SAME MATERIAL, IDENTIFIED WITH FABRIC TYPE. THE TENSION WIRE SHALL BE 7-GAUGE COILED SPRING WIRE COATED SIMILARLY TO THE RESPECTIVE WIRE BEING USED. WIRE FABRIC TIES SHALL BE HOG RINGS ALUMINUM WIRE, OR GALVANIZED WIRE NOT LESS THAN 9-GAUGE.
2. ALL SECTIONS MENTIONED ABOVE SHALL BE GALV. (ASTM-123).
3. OUTSIDE DIMENSIONS SHOWN ABOVE FOR SQUARE TUBULAR AND "H" SECTIONS ARE NOMINAL.
4. THE FENCE SHALL BE GROUNDED WITH 5/8" COPPER CLAD ROD 8' LONG DRIVEN VERTICALLY INTO THE GROUND UNTIL TOP IS 6" BELOW GROUND SURFACE. A NO. 6 SOLID COPPER CONDUCTOR SHALL BE CLAMPED TO THE ROAD AND TO THE FENCE IN SUCH A MANNER THAT EACH ELEMENT OF THE FENCE IS GROUNDED. THE FENCE SHALL BE GROUNDED AT POWER LINE CROSSINGS AND/OR AT 500' INTERVALS ALONG THE FENCE.
5. ARRANGEMENTS SHOWN ARE TYPICAL. EXACT ARRANGEMENT OF GATES SHALL BE AS SHOWN ON HUB SITE DETAIL SHEET.

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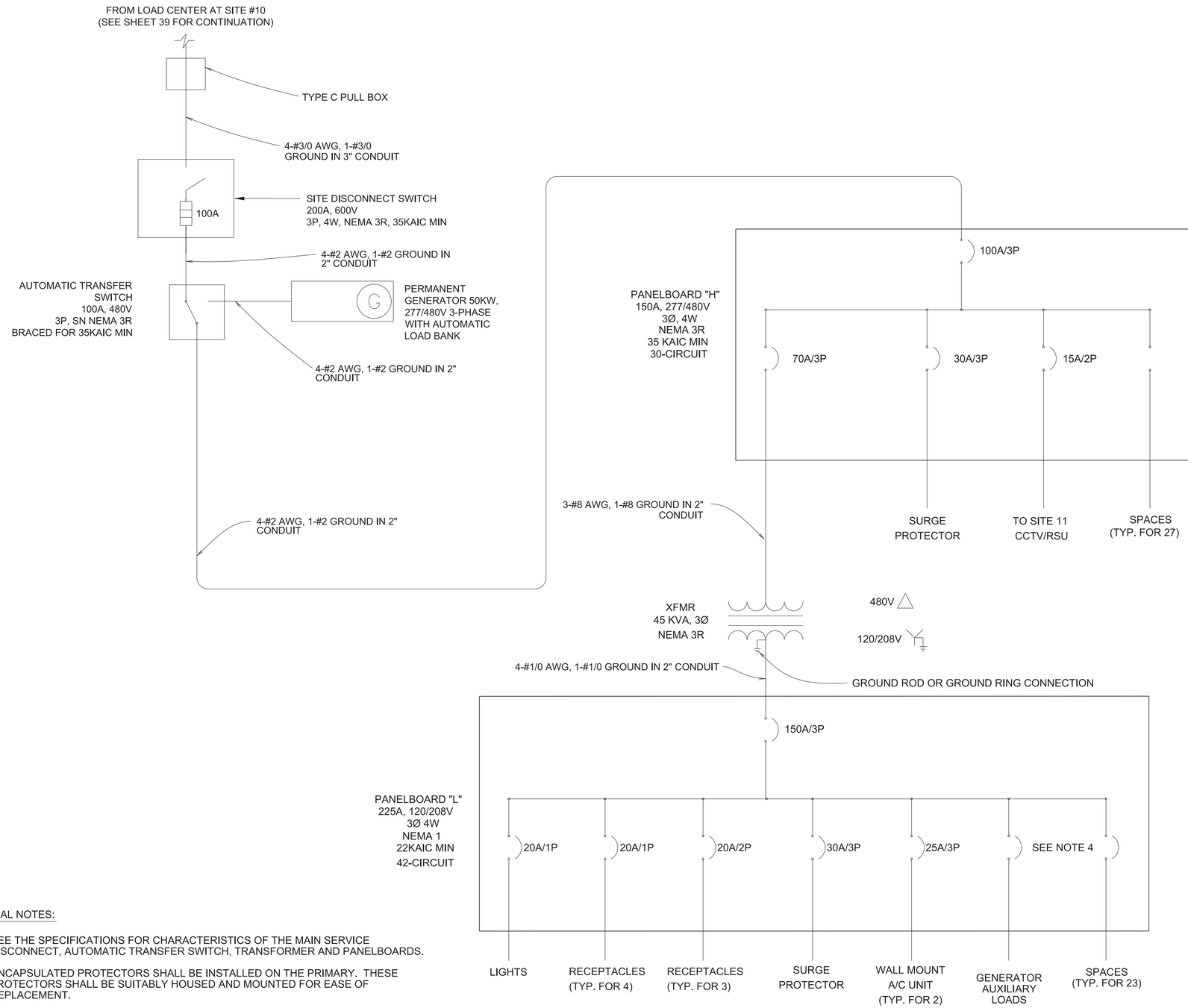


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ITS COMMUNICATIONS HUB BUILDING DETAILS

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TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	2K3
PS&E	2025	R-NH-385(33)	2K3



ITS COMMUNICATIONS HUB
ONE-LINE DIAGRAM

SCALE: NONE

GENERAL NOTES:

1. SEE THE SPECIFICATIONS FOR CHARACTERISTICS OF THE MAIN SERVICE DISCONNECT, AUTOMATIC TRANSFER SWITCH, TRANSFORMER AND PANELBOARDS.
2. ENCAPSULATED PROTECTORS SHALL BE INSTALLED ON THE PRIMARY. THESE PROTECTORS SHALL BE SUITABLY HOUSED AND MOUNTED FOR EASE OF REPLACEMENT.
3. ITS HUB LOW VOLTAGE LOADING SHALL BE FED FROM 120/208V PANELBOARD.
4. CIRCUIT BREAKER SIZE AND QUANTITY SHALL BE AS REQUIRED BY GENERATOR MANUFACTURER TO SUPPLY GENERATOR AUXILIARY LOADS (BLOCK HEATER, BATTERY CHARGER, ETC.).

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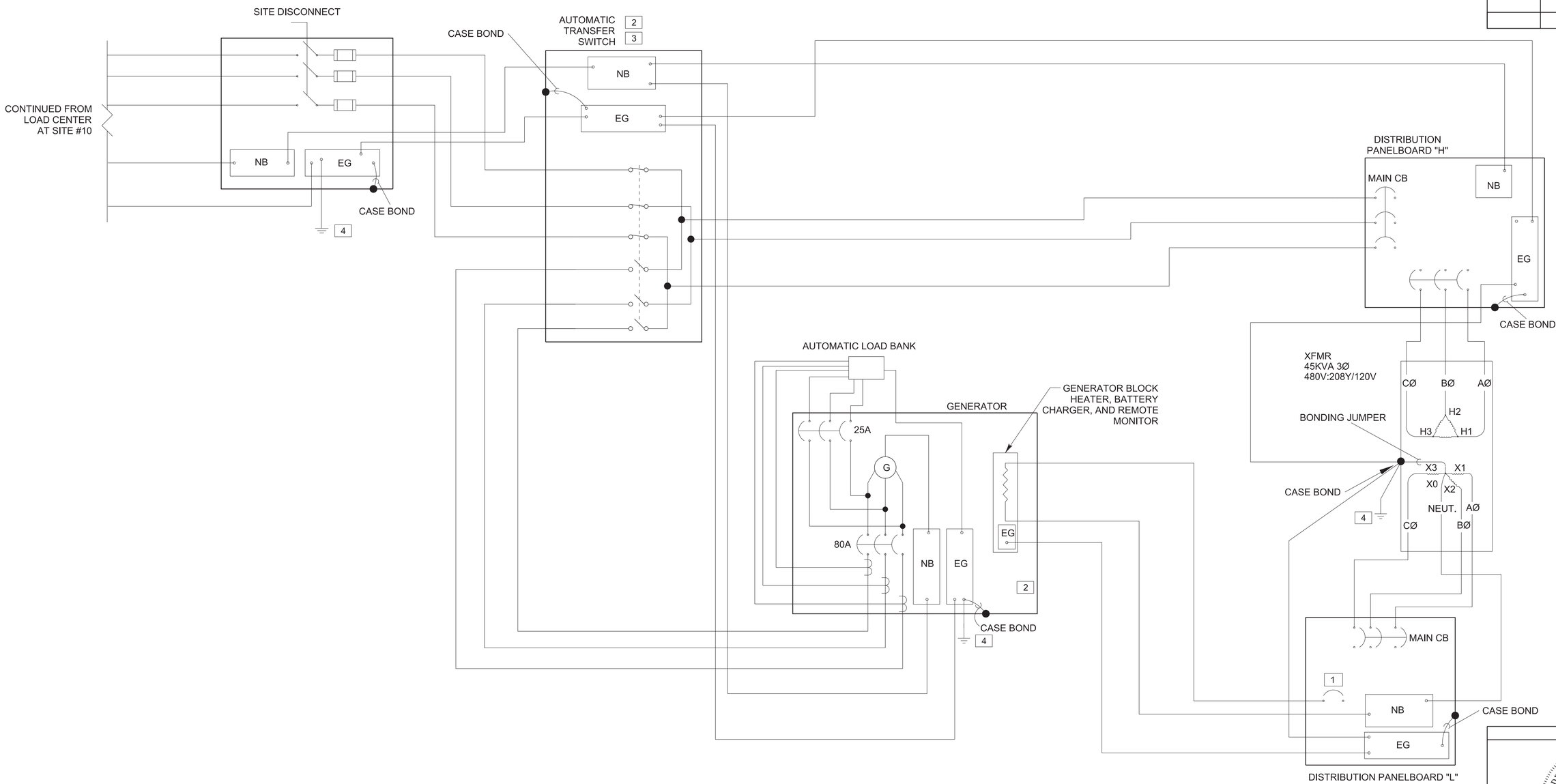


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ITS COMMUNICATIONS HUB BUILDING DETAILS

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TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	2K4
PS&E	2025	R-NH-385(33)	2K4



GENERAL NOTES:

1. ALL METALLIC CONDUIT SHALL BE BONDED AT EACH END TO THE EQUIPMENT GROUNDING SYSTEM. CONDUIT CONNECTIONS TO ELECTRICAL ENCLOSURES ARE NOT ACCEPTABLE AS A BONDING METHOD. CONNECTION SHALL BE MADE WITH CONDUCTORS AND GROUNDING BUSHINGS.

2. ALL EQUIPMENT IS NEW UNLESS NOTED OTHERWISE.

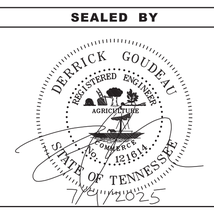
SPECIFIC NOTES:

1	CIRCUIT BREAKER PER GENERATOR MANUFACTURER REQUIREMENTS.
2	GENERATOR CONTROL CONNECTION TO ATS NOT SHOWN.
3	COMMUNICATION CONNECTION FROM REMOTE MONITORING SYSTEM TO ATS AND GENERATOR NOT SHOWN.
4	GROUND ROD/ GROUND RING CONNECTION

ITS COMMUNICATIONS HUB
SCHEMATIC WIRING DIAGRAM (TYPICAL)

SCALE: NONE

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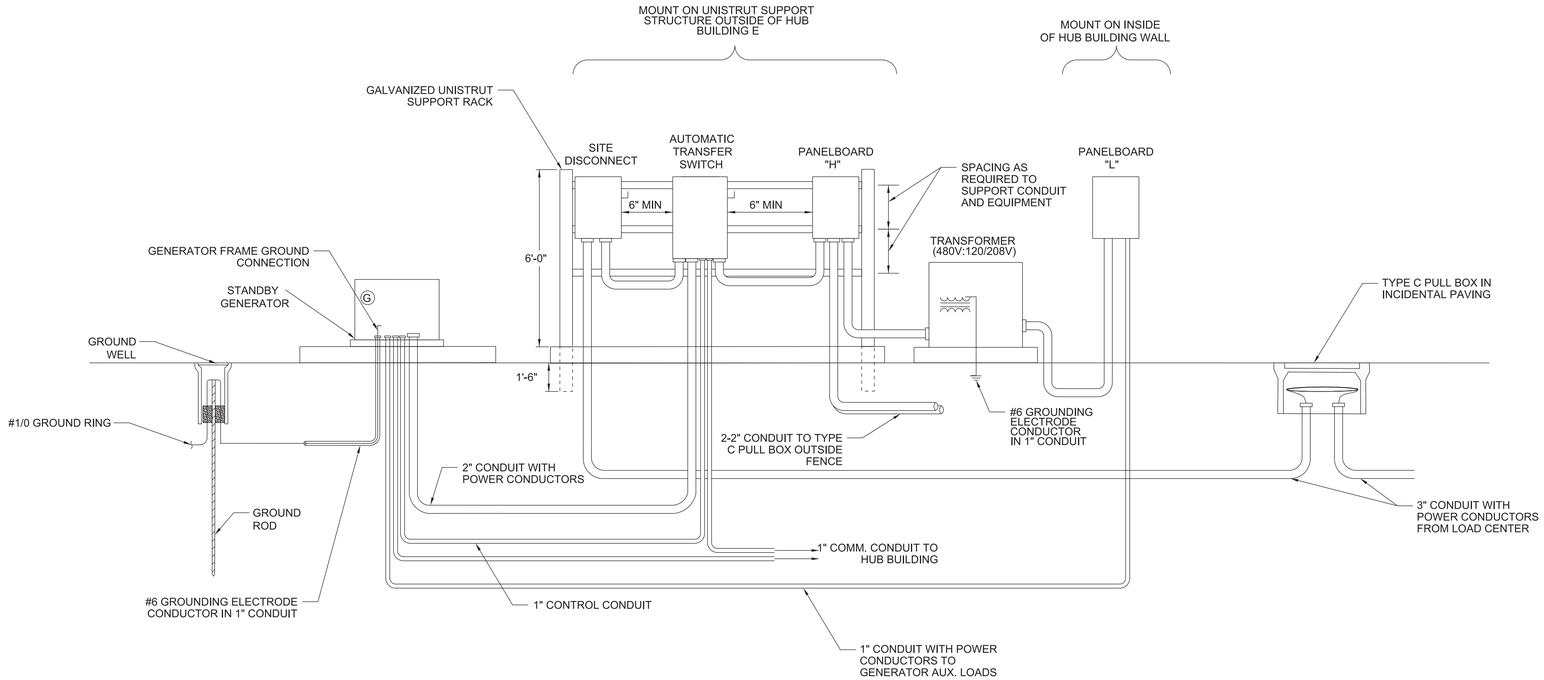


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ITS COMMUNICATIONS HUB BUILDING DETAILS

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TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	2K5
PS&E	2025	R-NH-385(33)	2K5



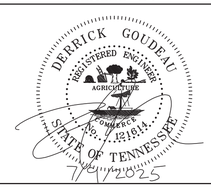
ITS HUB BUILDING ELECTRIC SERVICE DETAIL

SCALE: N.T.S.

GENERAL NOTES:

1. UNDERGROUND CONDUIT SHALL BE INSTALLED IN A STRAIGHT LINE FROM START TO FINISH. ANY DEVIATION FROM STRAIGHT LINE WILL REQUIRE PRIOR APPROVAL BY THE PROJECT ENGINEER.
2. ALL UNDERGROUND CONDUIT SHALL BE BURIED A MINIMUM OF 24" (UNLESS OTHERWISE NOTED). SEE TRENCHING DETAIL IN THIS PLAN SET.
3. CONTRACTOR SHALL MAKE NECESSARY CONDUIT AND CABLING ADJUSTMENTS TO ACCOMMODATE THE PROPOSED GENERATOR MANUFACTURER'S REQUIREMENTS.
4. SEE SHEET 39 AND SHEET 2K3 FOR THE HUB BUILDING LOCATION AND ELECTRICAL DETAILS.
5. FINAL CONDUIT CONNECTION TO GENERATOR AND TRANSFORMER SHALL BE MADE WITH 18" OF LMFC. ALL OTHER ABOVE GROUND CONDUIT SHALL BE RGS.

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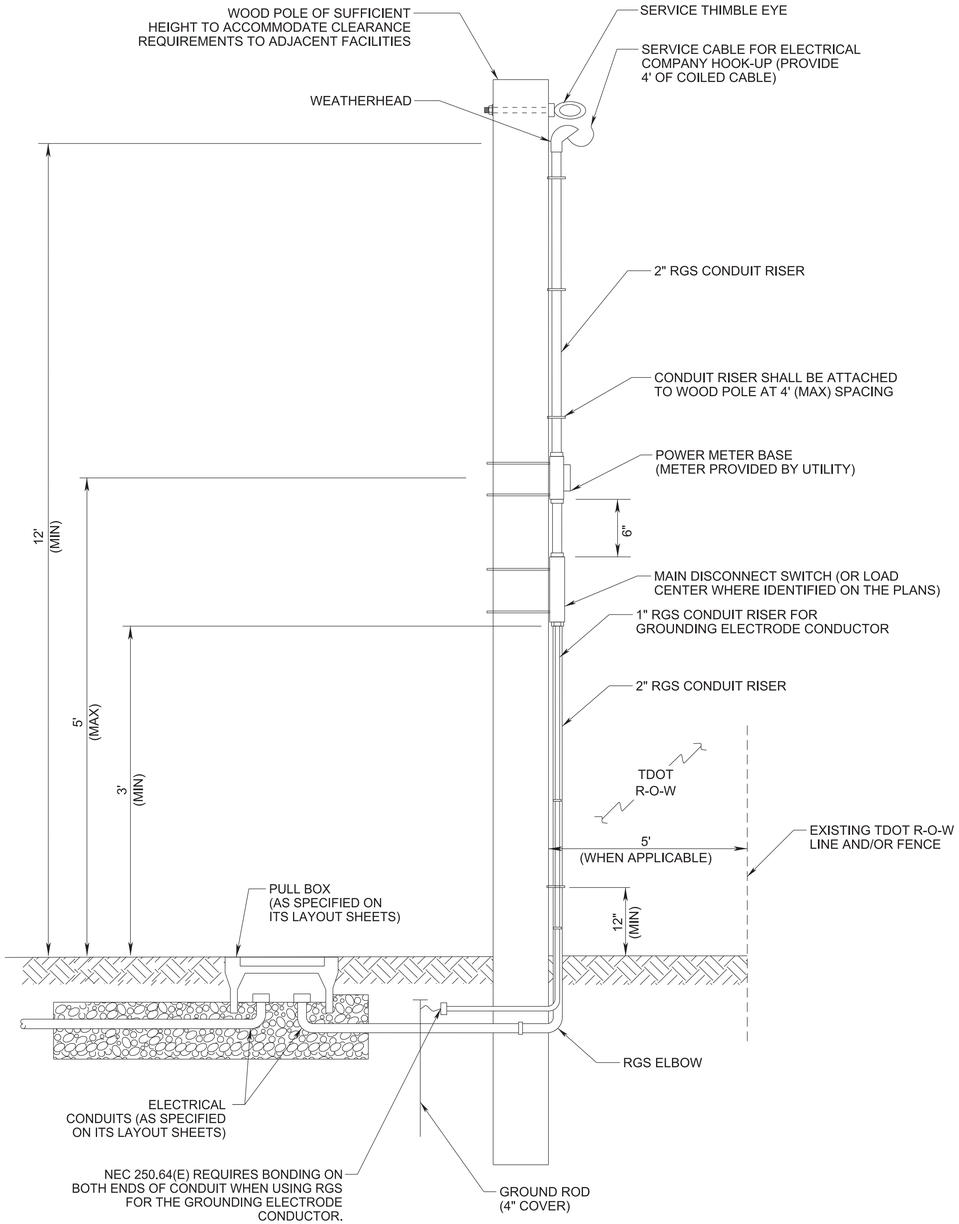


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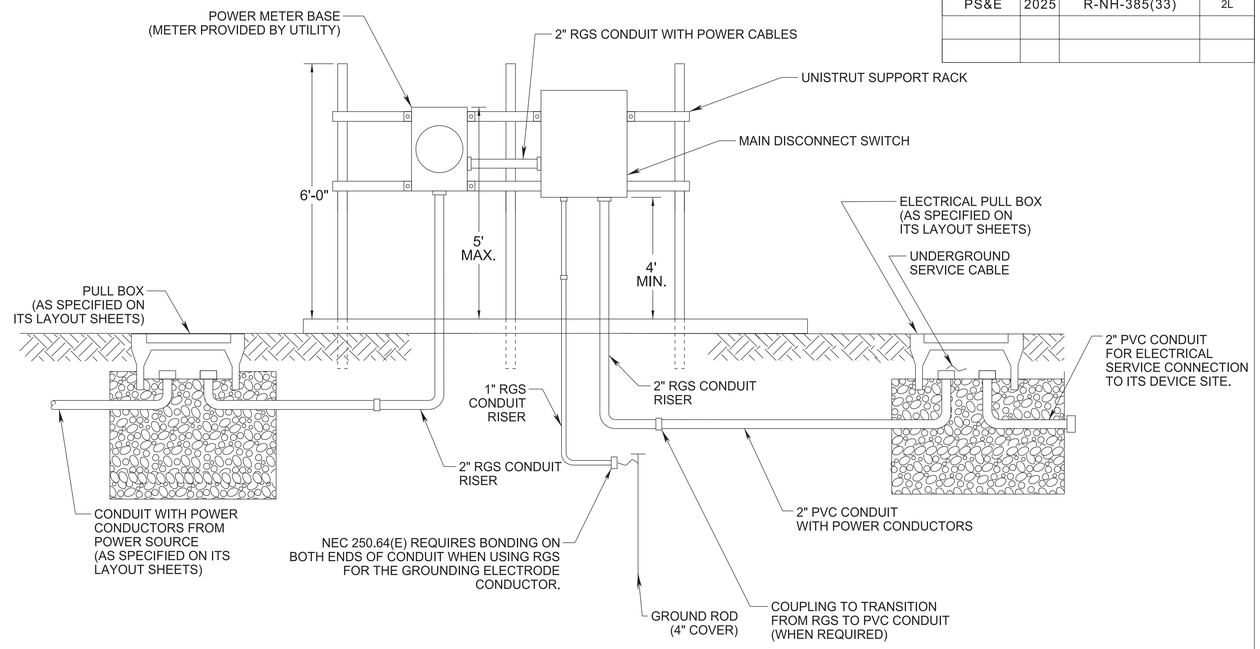
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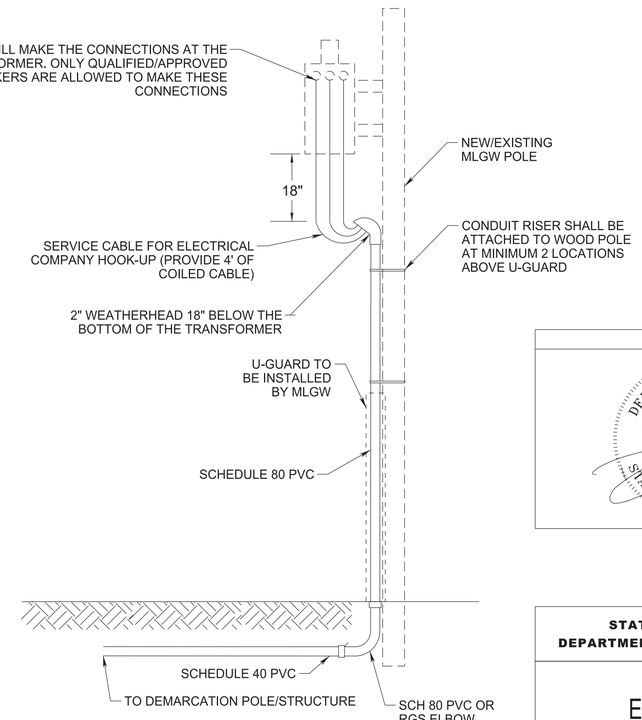
TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	2L
PS&E	2025	R-NH-385(33)	2L



DEMARCATION SITE - TYPE 1
OVERHEAD SERVICE FEEDS
N.T.S.



DEMARCATION SITE - TYPE 2
UNDERGROUND 120/240V SERVICE FEEDS
N.T.S.



RISER DETAIL
(MLGW POLE)
N.T.S.

NOTES:

1. ALL EQUIPMENT CONNECTIONS SHALL BE MADE ACCORDING TO MANUFACTURER RECOMMENDATIONS AND APPROVED BY THE ENGINEER.
2. COORDINATE ELECTRICAL SERVICE CONNECTIONS WITH THE APPROPRIATE UTILITY COMPANIES AS NOTED ON THE PLANS. SEE SPECIAL NOTES FOR FURTHER GUIDANCE. ALL EQUIPMENT IS NEW AND SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR UNLESS OTHERWISE NOTED.
3. THERE SHALL BE A MINIMUM 40-INCH SEPARATION BETWEEN POWER AND COMMUNICATION WEATHERHEADS.
4. ENTIRE INSTALLATION MUST MEET OR EXCEED ALL LOCAL AND NATIONAL ELECTRICAL CODES.
5. LOCATIONS OF PULL BOXES SHOWN IN ABOVE DETAILS ARE GENERIC. REFER TO INDIVIDUAL ITS LAYOUT SHEETS FOR RECOMMENDED LOCATIONS.
6. METER BASES ARE REQUIRED FOR ALL ELECTRICAL DEMARCATION SITES AND SHALL BE PROVIDED BY THE CONTRACTOR.
7. SEPARATE PULL BOXES ARE REQUIRED FOR ELECTRICAL AND COMMUNICATIONS CONDUITS.
8. THE ELECTRICAL AND COMMUNICATIONS CABLES THAT RUN TO THE INDIVIDUAL ITS FIELD CABINETS ARE SUMMARIZED IN THE CONDUIT AND CABLE SCHEDULES ON THE INDIVIDUAL ITS LAYOUT SHEETS.
9. A DRIP LOOP SHALL BE APPLIED TO ALL CABLING ENTERING A WEATHERHEAD.
10. WOOD POLE CLASS, HEIGHT, BURIAL DEPTH, AND GUYING REQUIREMENTS SHALL BE DETERMINED BASED UPON LENGTH OF AERIAL FEED AND MEET LOCAL AND NATIONAL ELECTRICAL CODES.
11. CONTRACTOR SHALL VERIFY THE SIZE AND TYPE OF ELECTRICAL SERVICE CABLES WITH THE APPROPRIATE UTILITY COMPANIES.
12. REFER TO SITE SPECIFIC EQUIPMENT DETAILS ON SHEETS 2L4-2L9.
13. RISER AND DEMARCATION TO BE PAID FOR UNDER 725-21.43 DEMARCATION SITE (OVERHEAD POWER) OR 725-21.44 DEMARCATION SITE (UNDERGROUND POWER).

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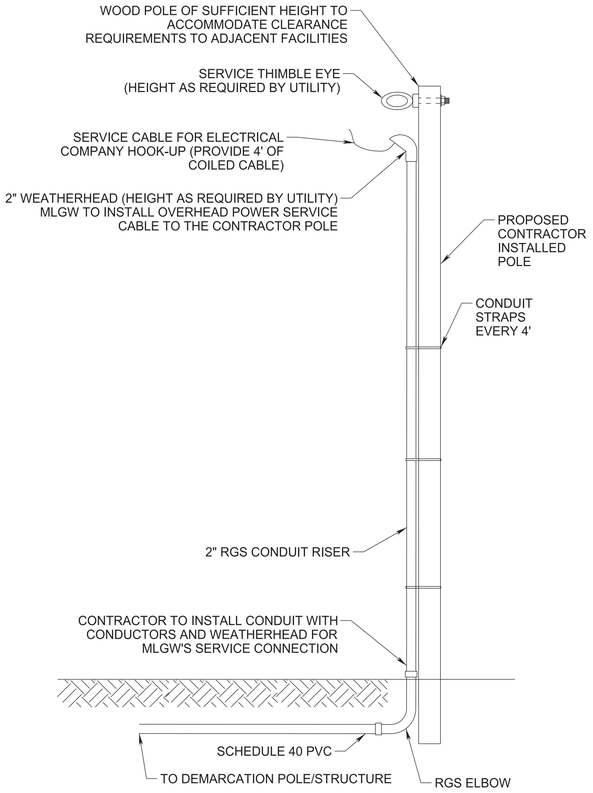


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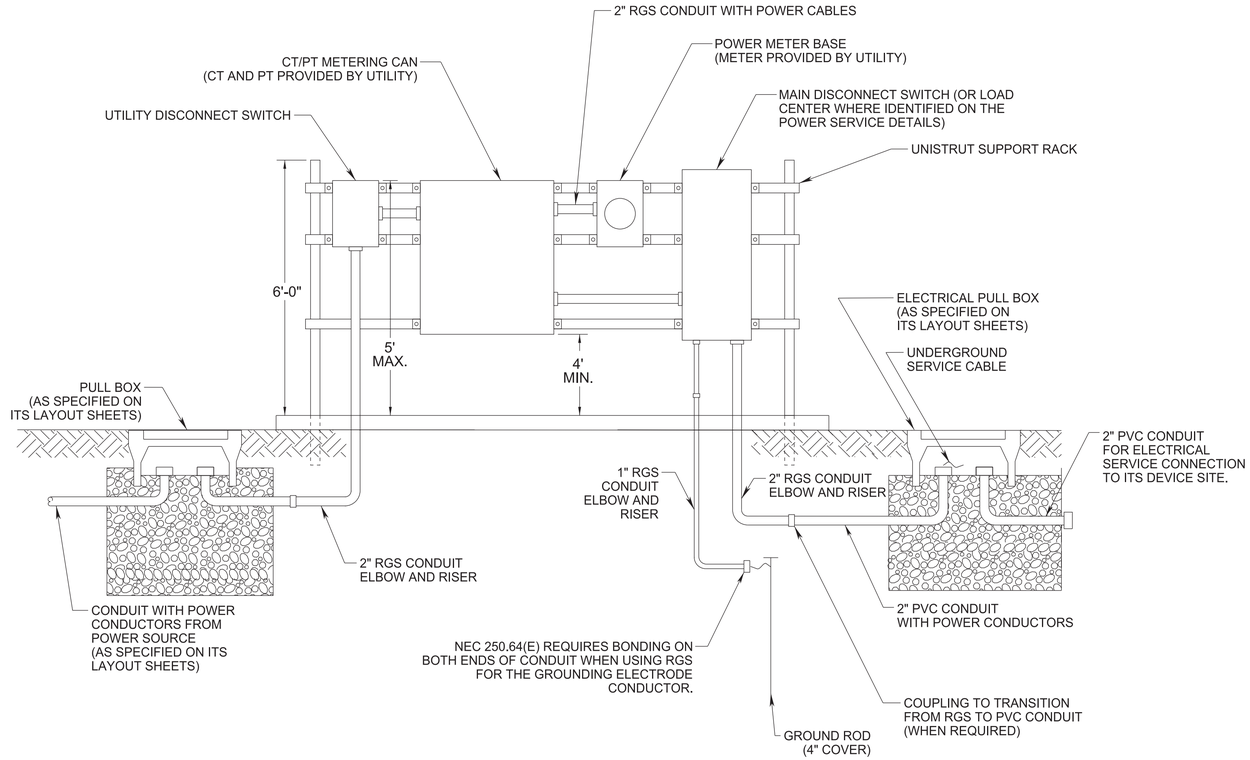
ELECTRICAL DEMARCATION SITE DETAILS

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TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	N/A
PS&E	2025	R-NH-385(33)	2L1



RISER DETAIL
(CONTRACTOR POLE)
N.T.S.



DEMARCATION SITE - TYPE 2
UNDERGROUND 480V SERVICE FEEDS
N.T.S.

NOTES:

1. SEE NOTES ON SHEET 2L.

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ELECTRICAL
DEMARCATION
SITE DETAILS

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TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	2L1
PS&E	2025	R-NH-385(33)	2L2

ELECTRICAL DEMARCATION SITE LOCATIONS

SHEET NUMBER	DEMARCATION NO.	DEMARCATION SITE STATION	ROADWAY	LT. / RT.	DIST. FROM SR-385 E.O.T.L. (FT)	DEMARCATION TYPE	DEVICES SUPPORTED	UTILITY PROVIDER	POWER SERVICE	UTILITY TRANSFORMER	MAX LOAD
10	R4J-SR385-008.3W	173+40	FOREST HILL IRENE RD	LT.	290'	TYPE 2 (UNDERGROUND POWER)	CCTV R4A-SR385-008.3W (SITE 1) CCTV R4B-SR385-008.3W (SITE 1) RDS R4G-SR385-008.3W (SITE 1)	MLGW	120/240 V SINGLE-PHASE	PROPOSED	1000 W
14	R4J-SR385-009.2E	219+66	SR-385 / PLANTERS TRACE LN	RT.	45'	TYPE 1 (OVERHEAD POWER)	CCTV R4A-SR385-009.4E (SITE 2) RDS R4G-SR385-009.4E (SITE 2) ESS R4Y-SR385-009.4E (SITE 2)	MLGW	120/240 V SINGLE-PHASE	PROPOSED	1000 W
19	R4J-SR385-010.4W	288+85	HOUSTON LEVEE RD	LT.	235'	TYPE 2 (UNDERGROUND POWER)	CCTV R4A-SR385-010.4E (SITE 3) CCTV R4B-SR385-010.4E (SITE 3) RDS R4G-SR385-010.4E (SITE 3) DMS R4E-SR385-011.4W (SITE 4) CCTV R4A-SR385-011.5W (SITE 4) RDS R4G-SR385-011.5W (SITE 4) ESS R4Y-SR385-011.5W (SITE 4)	MLGW	240/480 V SINGLE-PHASE	PROPOSED	10400 W
27	R4J-SR385-012.5W	390+55	BYHALIA RD	LT.	645'	TYPE 1 (OVERHEAD POWER)	CCTV R4A-SR385-012.5W (SITE 5) CCTV R4B-SR385-012.5W (SITE 5)	MLGW	120/240 V SINGLE-PHASE	PROPOSED	1000 W
30	R4J-SR385-013.1W	434+34	SYCAMORE RD	LT.	25'	TYPE 2 (UNDERGROUND POWER)	DMS R4E-SR385-013.1W (SITE 6) CCTV R4A-SR385-013.4E (SITE 7) RDS R4G-SR385-013.4E (SITE 7) ESS R4Y-SR385-013.4E (SITE 7) DMS R4E-SR385-013.4E (SITE 7)	MLGW	240/480 V SINGLE-PHASE	PROPOSED	18000 W
34	R4J-SR385-014.1E	477+94	SR-385 / SHELBY DR	RT.	85'	TYPE 2 (UNDERGROUND POWER)	CCTV R4A-SR385-014.0E (SITE 8) RDS R4G-SR385-014.0E (SITE 8)	MLGW	120/240 V SINGLE-PHASE	PROPOSED	1000 W
35	R4J-SR385-014.6E	499+85	US 72	RT.	760'	TYPE 1 (OVERHEAD POWER)	CCTV R4A-SR385-014.6E (SITE 9) CCTV R4B-SR385-014.6E (SITE 9) RDS R4G-SR385-014.6E (SITE 9)	MLGW	120/240 V SINGLE-PHASE	PROPOSED	1000 W
38	R4J-SR385-015.2E	536+45	SR-385 / PROGRESS RD	RT.	50'	TYPE 2 (UNDERGROUND POWER)	CCTV R4A-SR385-015.3E (SITE 10) CCTV R4B-SR385-015.3E (SITE 10) ESS R4Y-SR385-015.3E (SITE 10) ITS COMMUNICATIONS HUB BUILDING E CCTV R4A-SR385-015.6E (SITE 11) CCTV R4B-SR385-015.6E (SITE 11)	MLGW	277/480 V THREE PHASE	PROPOSED	33000 W

DEVICE ADDRESS

DEVICE NO.	SHEET NO.	ROADWAY	STA.	LT. / RT.	MLGW DEVICE ADDRESS ASSIGNMENT	DEMARCATION SITE
CCTV CAMERA R4A-SR385-008.3W (SITE 1)	10	SR-385	171+59	LT.	4405 S FOREST HILL IRENE RD	R4J-SR385-008.3W
CCTV CAMERA R4A-SR385-009.4E (SITE 2)	15	SR-385	231+79	RT.	9672 E SHELBY DR	R4J-SR385-009.2E
CCTV CAMERA R4A-SR385-010.4E (SITE 3)	19	SR-385	287+45	RT.	4536 S HOUSTON LEVEE RD	R4J-SR385-010.4W
CCTV CAMERA R4A-SR385-011.5W (SITE 4)	23	SR-385	340+57	LT.	440 TARREN MILL CR E	R4J-SR385-010.4W
CCTV CAMERA R4A-SR385-012.5W (SITE 5)	27	SR-385	393+40	LT.	420 S BYHALIA RD	R4J-SR385-012.5W
DMS R4E-SR385-013.1W (SITE 6)	30	SR-385	427+39	LT.	665 SYCAMORE RD	R4J-SR385-013.1W
CCTV CAMERA R4A-SR385-013.4E (SITE 7)	31	SR-385	439+63	RT.	698 SYCAMORE RD	R4J-SR385-013.1W
CCTV CAMERA R4A-SR385-014.0E (SITE 8)	33	SR-385	471+50	RT.	11830 E SHELBY DR	R4J-SR385-014.1E
CCTV CAMERA R4A-SR385-014.6E (SITE 9)	35	SR-385	500+96	RT.	326 E US HIGHWAY 72	R4J-SR385-014.6E
CCTV CAMERA R4A-SR385-015.3E (SITE 10)	39	SR-385	543+12	RT.	572 PROGRESS RD	R4J-SR385-015.2E
CCTV CAMERA R4A-SR385-015.6E (SITE 11)	40	SR-385	557+37	RT.	496 PROGRESS RD	R4J-SR385-015.2E

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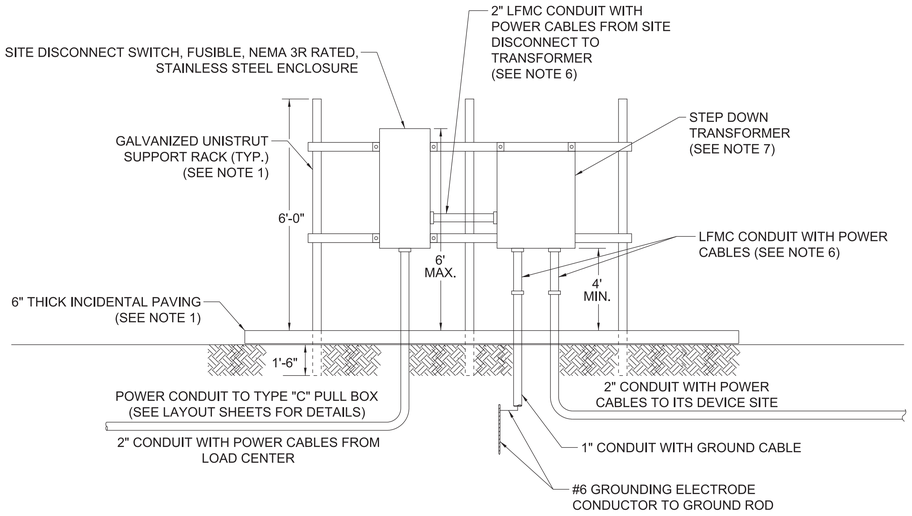
DERRICK GOUDEAU
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 121611
STATE OF TENNESSEE
7/9/2025

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ELECTRICAL DEMARCATION TABLE

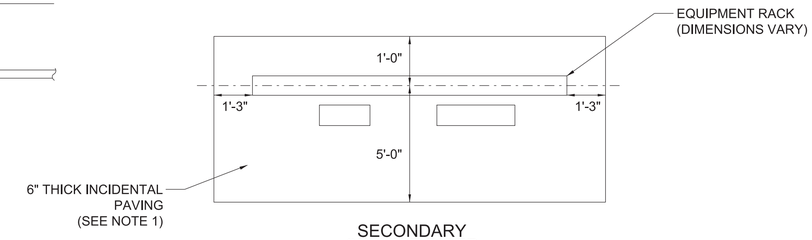
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TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	2L2
PS&E	2025	R-NH-385(33)	2L3



SECONDARY
SERVICE RISER
ITS SITE
3, 4, 6, & 7

SCALE: N.T.S.

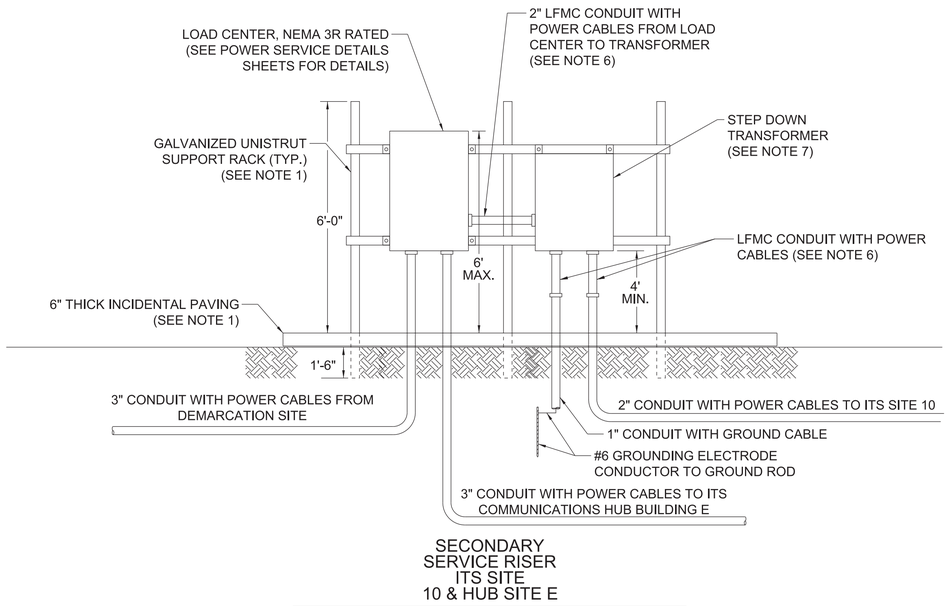


SECONDARY
SERVICE RISER
INCIDENTAL PAVING DETAIL

SCALE: N.T.S.

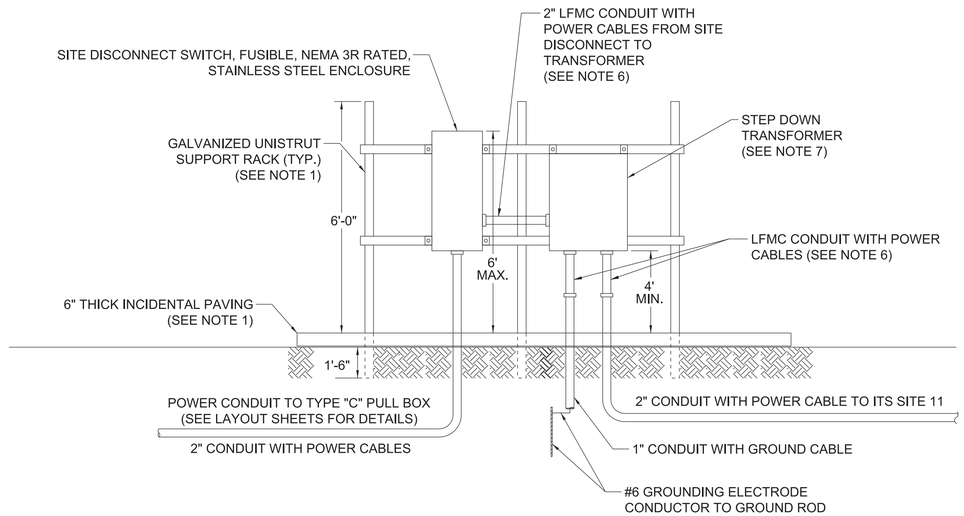
SERVICE RISER NOTES:

1. ALL CONDUIT, CONDUCTORS, INCIDENTAL PAVING, AND ELECTRICAL SERVICE EQUIPMENT SHOWN ON SECONDARY SERVICE RISER SHALL BE PAID UNDER TRANSFORMER (TYPE A) PAY ITEM (725-21.71) OR TRANSFORMER (1.5KVA) PAY ITEM (725-21.73).
2. UNDERGROUND CONDUIT SHALL BE INSTALLED IN A STRAIGHT LINE FROM START TO FINISH. ANY DEVIATION FROM STRAIGHT LINE REQUIRE PRIOR APPROVAL BY THE PROJECT ENGINEER.
3. ALL RIGID GALVANIZED STEEL CONDUIT SHALL HAVE GROUNDING BUSHINGS INSTALLED ON EACH END. THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE BONDED TO EACH END OF THE METALLIC RACEWAY ENCIRCLING IT. ALL CONDUIT ENTRANCES INTO CLOSURES SHALL BE WATERTIGHT.
4. ALL UNDERGROUND CONDUIT SHALL BE BURIED A MINIMUM OF 24" (UNLESS OTHERWISE NOTED). SEE TRENCHING DETAIL THIS PLAN SET.
5. UNISTRUT RACK PAID UNDER TRANSFORMER (TYPE A) PAY ITEM (725-21.71) OR TRANSFORMER (1.5KVA) PAY ITEM (725-21.73).
6. FINAL CONDUIT CONNECTION TO TRANSFORMER SHALL BE MADE WITH 18" OF LMFC. ALL OTHER ABOVE GROUND CONDUIT SHALL BE RGS. LIQUID TIGHT FLEXIBLE METAL (LFMC) CONDUIT SHALL BE SUPPORTED BY UNISTRUT SERVICE RACK.
7. THE TRANSFORMER SHALL BE GROUNDED USING #6 AWG GROUND CONDUCTORS TO NEW 3/4" DIA. X 10' LONG COPPER CLAD GROUND ROD PER NEC REQUIREMENTS.
8. INCIDENTAL PAVEMENT TO BE IN ACCORDANCE WITH TDOT STANDARD SPECIFICATIONS SECTION 701. INCIDENTAL PAVING SHOULD BE 6" MIN. THICKNESS WITH 1064 WWF 4X4 - W4.0XW4.0 MIN. TYP.



SECONDARY
SERVICE RISER
ITS SITE
10 & HUB SITE E

SCALE: N.T.S.



SECONDARY
SERVICE RISER
ITS SITE 11

SCALE: N.T.S.

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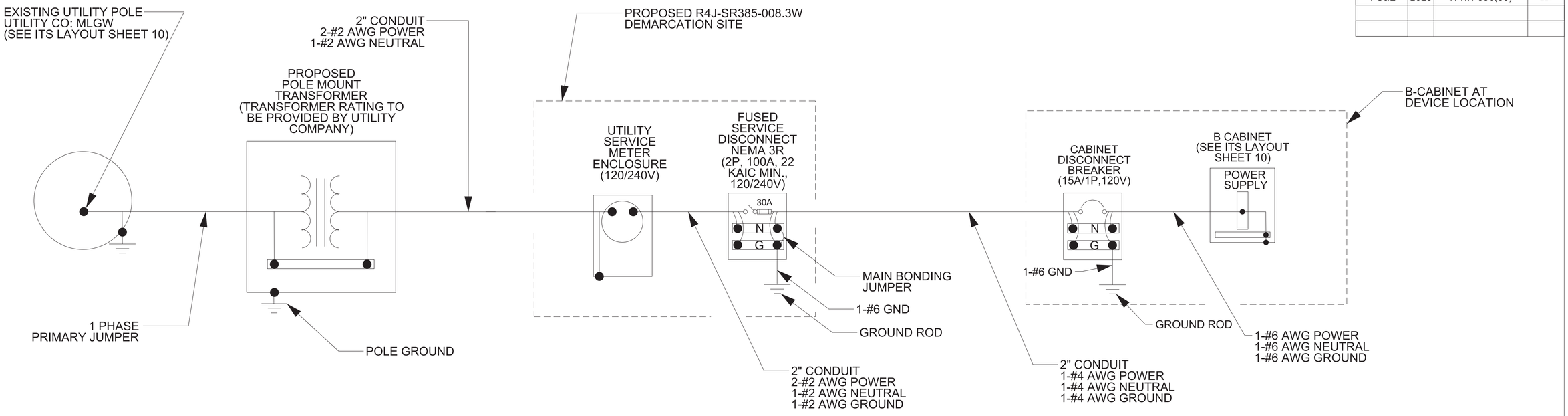


STATE OF TENNESSEE
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POWER SERVICE DETAILS

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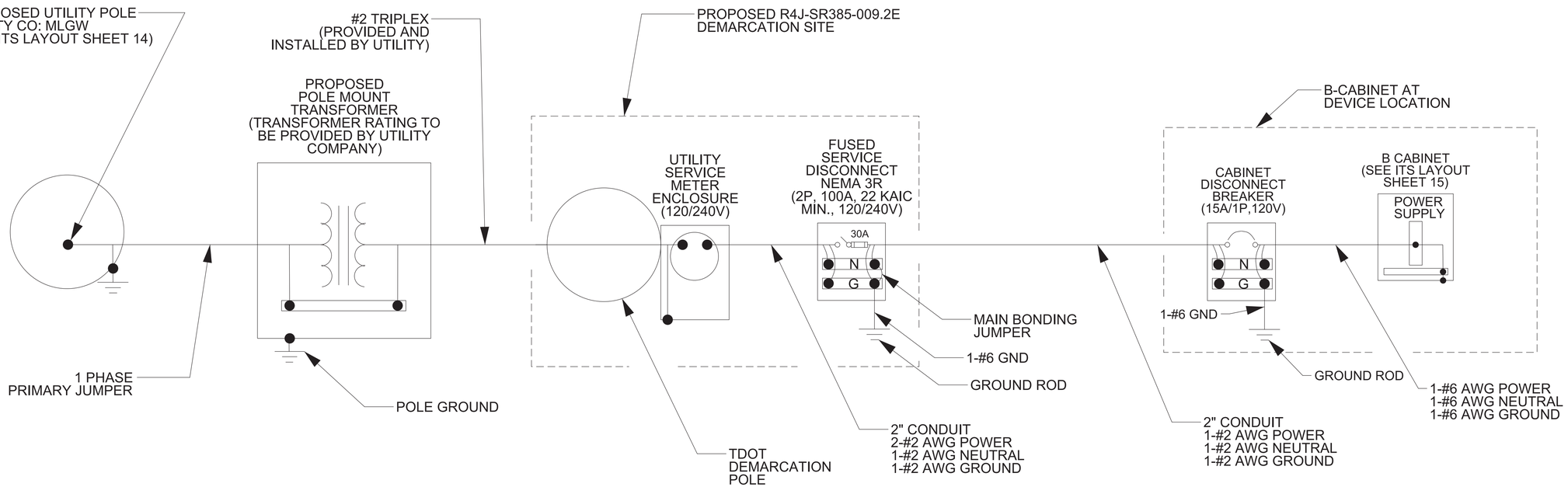
TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	2L3
PS&E	2025	R-NH-385(33)	2L4



NOTES:

1. UNDERGROUND PULL BOXES NOT SHOWN. REFER TO LAYOUT SHEETS AND DETAIL SHEETS FOR REQUIREMENTS.
2. ALL EQUIPMENT IS NEW UNLESS NOTED OTHERWISE.

PROPOSED R4A-SR385-008.3W (SITE 1)
PROPOSED R4B-SR385-008.3W (SITE 1)
PROPOSED R4G-SR385-008.3W (SITE 1)



NOTES:

1. UNDERGROUND PULL BOXES NOT SHOWN. REFER TO LAYOUT SHEETS AND DETAIL SHEETS FOR REQUIREMENTS.
2. ALL EQUIPMENT IS NEW UNLESS NOTED OTHERWISE.

PROPOSED R4A-SR385-009.4E (SITE 2)
PROPOSED R4G-SR385-009.4E (SITE 2)
PROPOSED R4Y-SR385-009.4E (SITE 2)

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DERRICK GOUDEAU
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COMMERCE
No. 121614
STATE OF TENNESSEE
7/9/2025

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

POWER SERVICE DETAILS

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TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	2L4
PS&E	2025	R-NH-385(33)	2L5

EXISTING UTILITY POLE
UTILITY CO: MLGW
(SEE ITS LAYOUT SHEET 19)

2" CONDUIT
2-#3/0 AWG POWER
1-#3/0 AWG NEUTRAL

PROPOSED POLE MOUNT TRANSFORMER (TRANSFORMER RATING TO BE PROVIDED BY UTILITY COMPANY)

PROPOSED R4J-SR385-010.4W
DEMARCATION SITE

2" CONDUIT
2-#3/0 AWG POWER
1-#3/0 AWG NEUTRAL

NON-FUSED UTILITY DISCONNECT SWITCH, 2P, 200A, NEMA 3R RATED

CT/PT METERING CAN

200A BUS 60A MAIN BREAKER, 480V 1PHASE, 3W 18 CKT, 22 KAIC MIN., NEMA 3R LOAD CENTER, SERVICE ENTRANCE RATED

60A/3P
30A/2P
15A/2P
30A/2P
SPD

1 PHASE PRIMARY JUMPER

POLE GROUND

1-#4 GND

GROUND ROD

UTILITY SERVICE METER ENCLOSURE (240/480V)

1-#4 GND

MAIN BONDING JUMPER

2" CONDUIT
2-#3/0 AWG POWER
1-#3/0 AWG GROUND

2" CONDUIT
2-#6 AWG POWER
1-#6 AWG GROUND

SITE DISCONNECT SWITCH 2P, 30A FRAME, 6A FUSE, 600V NEMA 3R, 22kAIC MIN.

1-#6 GND

PROPOSED RACK MOUNT TRANSFORMER (1.5KVA) 480V:120V

1-#6 GND

2" CONDUIT
1-#6 AWG POWER
1-#6 AWG NEUTRAL
1-#6 AWG GROUND

B-CABINET AT R4E-SR385-010.4E

CABINET DISCONNECT BREAKER (15A/1P,120V)

B CABINET (SEE ITS LAYOUT SHEET 19)

POWER SUPPLY

1-#6 GND

GROUND ROD

1-#6 AWG POWER
1-#6 AWG NEUTRAL
1-#6 AWG GROUND

B-CABINET AT R4A-SR385-011.5W

B CABINET (SEE ITS LAYOUT SHEET 23)

POWER SUPPLY

CABINET DISCONNECT BREAKER (15A/1P,120V)

1-#6 GND

GROUND ROD

1-#6 AWG POWER
1-#6 AWG NEUTRAL
1-#6 AWG GROUND

2" CONDUIT
1-#6 AWG POWER
1-#6 AWG NEUTRAL
1-#6 AWG GROUND

PROPOSED RACK MOUNT TRANSFORMER (1.5KVA) 480V:120V

1-#6 GND

BONDING JUMPER

SITE DISCONNECT SWITCH 2P, 100A FRAME, 6A FUSE, 600V NEMA 3R, 22kAIC MIN.

1-#6 GND

2" CONDUIT
2-#2 AWG POWER
1-#2 AWG GROUND

SUBMERSIBLE SPLICE IN TYPE C PULL BOX

2" CONDUIT
2-#2 AWG POWER
1-#2 AWG GROUND

C-CABINET AT R4E-SR385-011.4W

C CABINET (SEE ITS LAYOUT SHEET 23)

POWER SUPPLY

CABINET DISCONNECT BREAKER (60A/2P,120/240V)

1-#6 GND

GROUND ROD

2-#6 AWG POWER
1-#6 AWG NEUTRAL
1-#6 AWG GROUND

2" CONDUIT
2-#2 AWG POWER
1-#2 AWG NEUTRAL
1-#2 AWG GROUND

PROPOSED RACK MOUNT TRANSFORMER (TYPE A) 480V:120/240V 10KVA

1-#6 GND

BONDING JUMPER

SITE DISCONNECT SWITCH 2P, 100A FRAME, 30A FUSE, 600V NEMA 3R, 22kAIC MIN.

1-#6 GND

2" CONDUIT
2-#2 AWG POWER
1-#2 AWG GROUND

NOTES:

1. UNDERGROUND PULL BOXES NOT SHOWN. REFER TO LAYOUT SHEETS AND DETAIL SHEETS FOR REQUIREMENTS.
2. ALL EQUIPMENT IS NEW UNLESS NOTED OTHERWISE.
3. PROVIDE APPROPRIATE CIRCUIT BREAKER FRAME AND LUG TO ACCEPT INDICATED CONDUCTORS.

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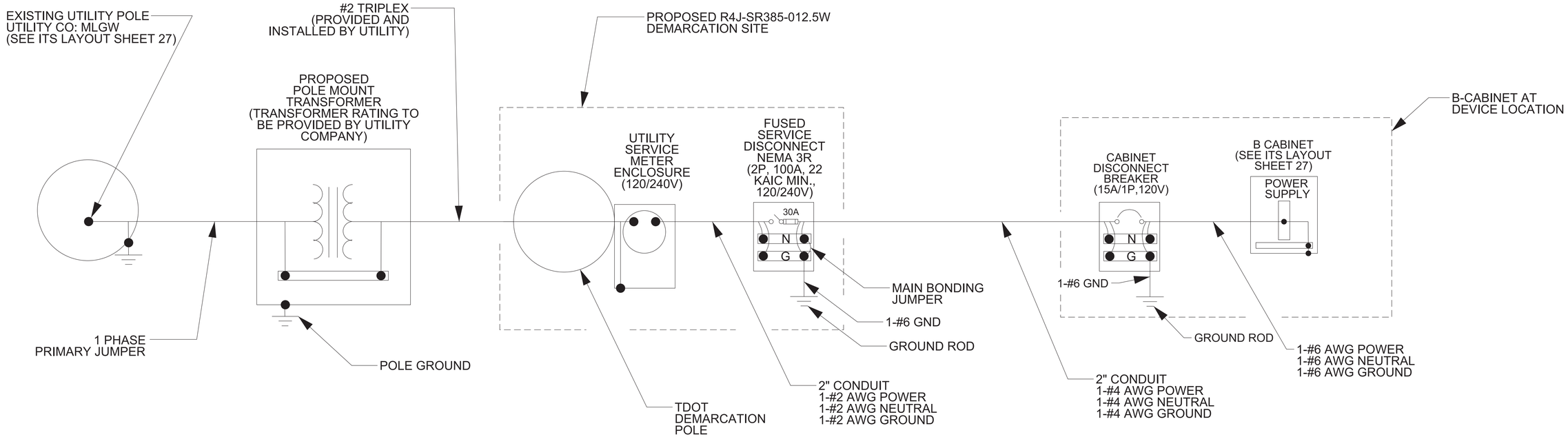
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED R4A-SR385-010.4E (SITE 3)
PROPOSED R4B-SR385-010.4E (SITE 3)
PROPOSED R4G-SR385-010.4E (SITE 3)
PROPOSED R4E-SR385-011.4W (SITE 4)
PROPOSED R4A-SR385-011.5W (SITE 4)
PROPOSED R4G-SR385-011.5W (SITE 4)
PROPOSED R4Y-SR385-011.5W (SITE 4)

POWER SERVICE DETAILS

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TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	2L5
PS&E	2025	R-NH-385(33)	2L6



NOTES:

1. UNDERGROUND PULL BOXES NOT SHOWN. REFER TO LAYOUT SHEETS AND DETAIL SHEETS FOR REQUIREMENTS.
2. ALL EQUIPMENT IS NEW UNLESS NOTED OTHERWISE.

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STATE OF TENNESSEE
7/9/2025

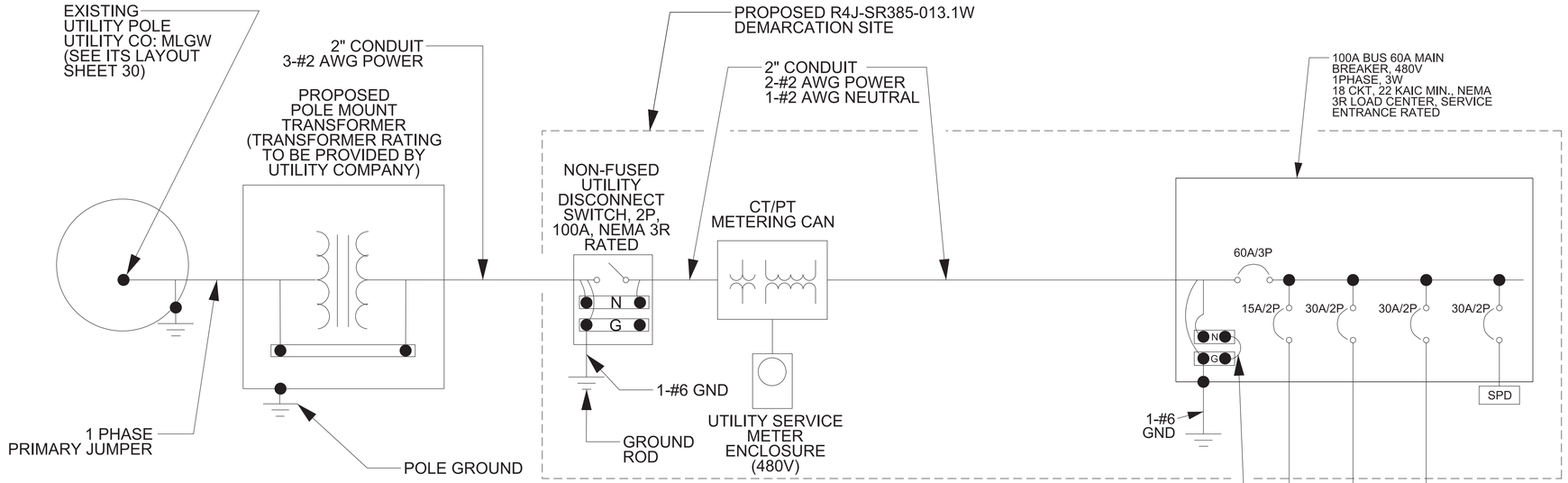
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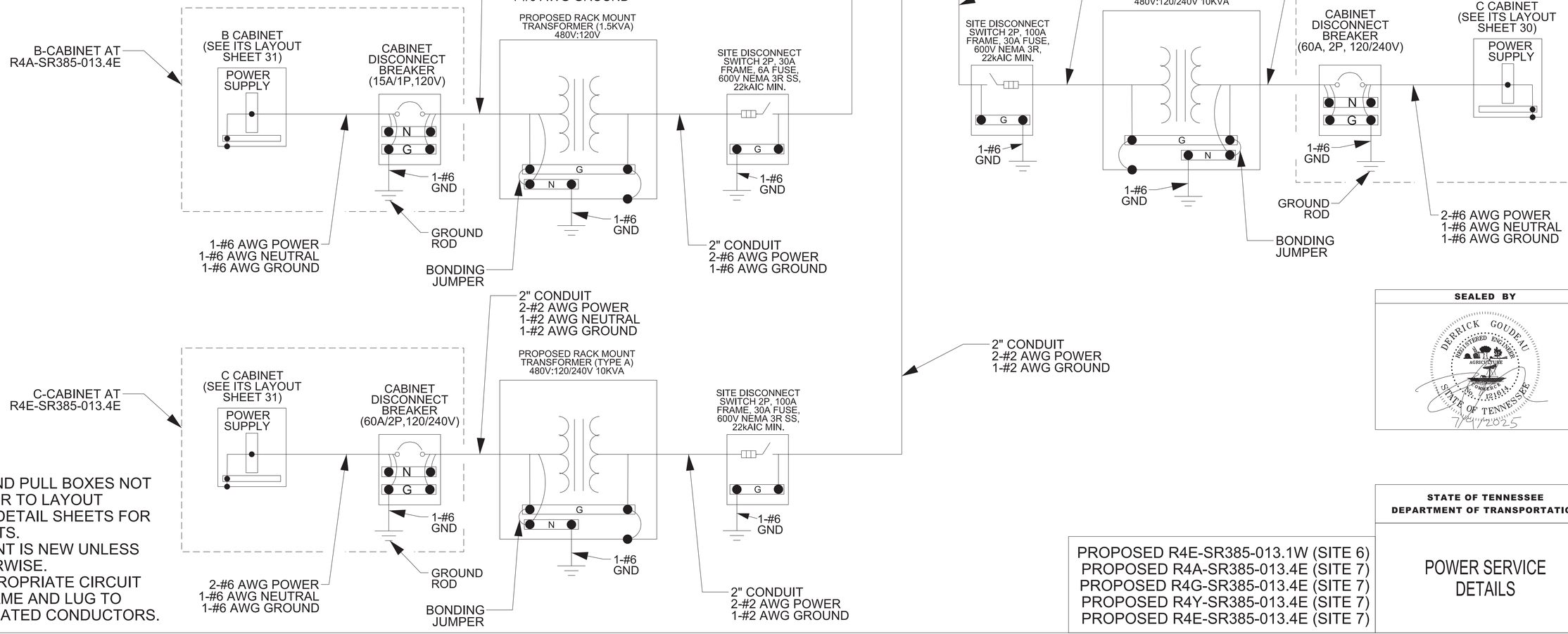
POWER SERVICE
DETAILS

PROPOSED R4A-SR385-012.5W (SITE 5)
PROPOSED R4B-SR385-012.5W (SITE 5)

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TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	2L6
PS&E	2025	R-NH-385(33)	2L7





NOTES:

1. UNDERGROUND PULL BOXES NOT SHOWN. REFER TO LAYOUT SHEETS AND DETAIL SHEETS FOR REQUIREMENTS.
2. ALL EQUIPMENT IS NEW UNLESS NOTED OTHERWISE.
3. PROVIDE APPROPRIATE CIRCUIT BREAKER FRAME AND LUG TO ACCEPT INDICATED CONDUCTORS.

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No. 121614
STATE OF TENNESSEE
7/9/2025

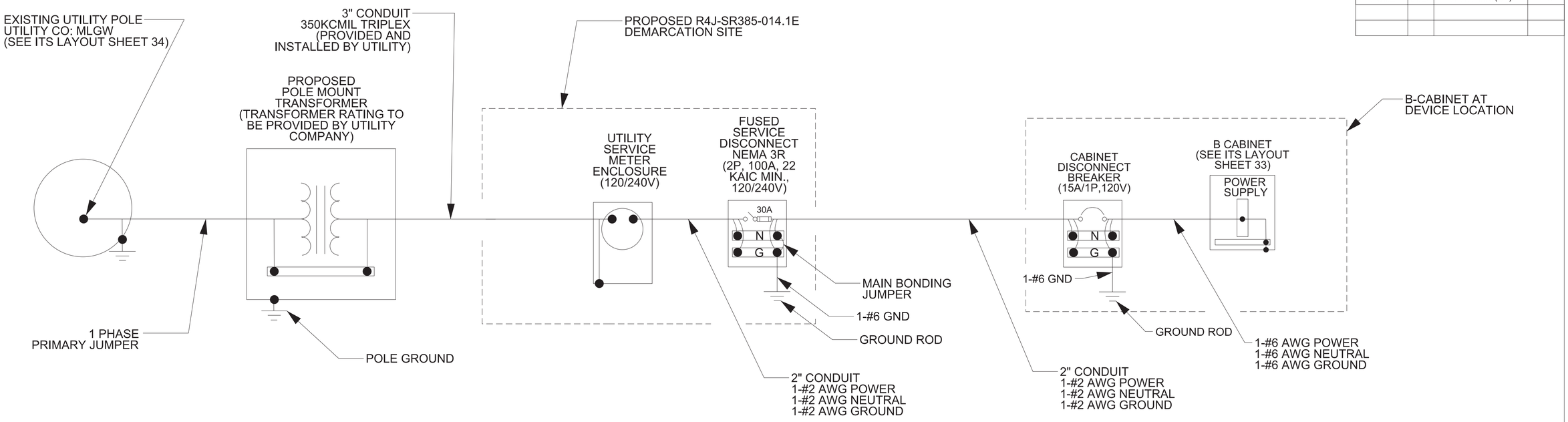
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED R4E-SR385-013.1W (SITE 6)
PROPOSED R4A-SR385-013.4E (SITE 7)
PROPOSED R4G-SR385-013.4E (SITE 7)
PROPOSED R4Y-SR385-013.4E (SITE 7)
PROPOSED R4E-SR385-013.4E (SITE 7)

POWER SERVICE DETAILS

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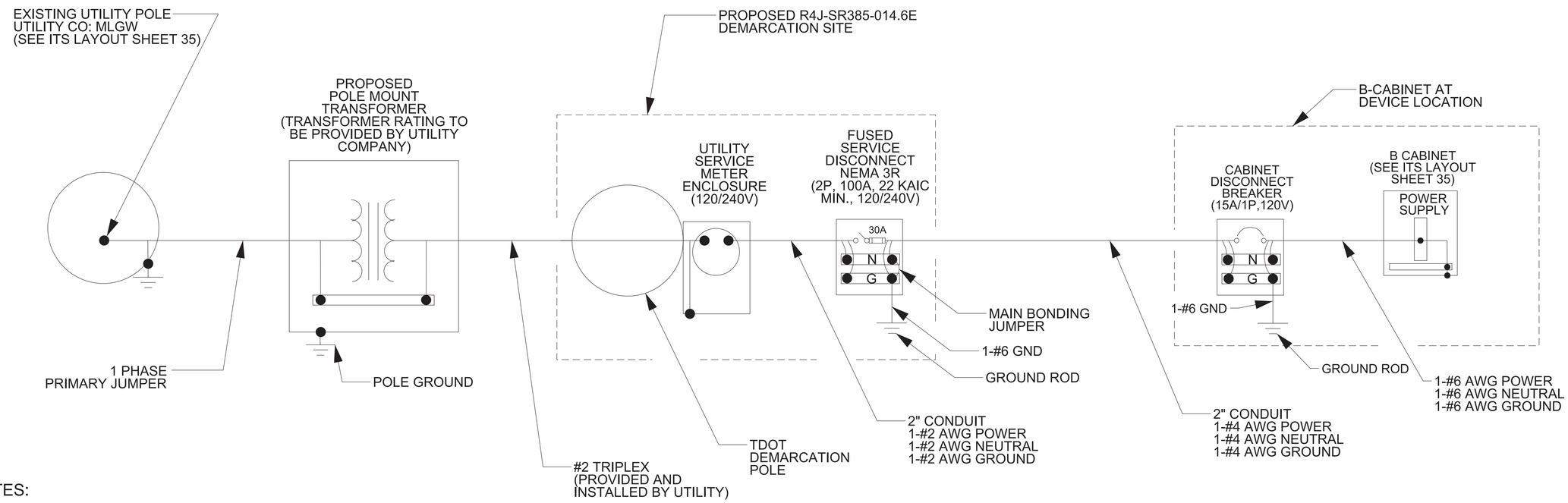
TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	2L7
PS&E	2025	R-NH-385(33)	2L8



NOTES:

1. UNDERGROUND PULL BOXES NOT SHOWN. REFER TO LAYOUT SHEETS AND DETAIL SHEETS FOR REQUIREMENTS.
2. ALL EQUIPMENT IS NEW UNLESS NOTED OTHERWISE.

PROPOSED R4A-SR385-014.0E (SITE 8)
PROPOSED R4G-SR385-014.0E (SITE 8)



NOTES:

1. UNDERGROUND PULL BOXES NOT SHOWN. REFER TO LAYOUT SHEETS AND DETAIL SHEETS FOR REQUIREMENTS.
2. ALL EQUIPMENT IS NEW UNLESS NOTED OTHERWISE.

PROPOSED R4A-SR385-014.6E (SITE 9)
PROPOSED R4B-SR385-014.6E (SITE 9)
PROPOSED R4G-SR385-014.6E (SITE 9)

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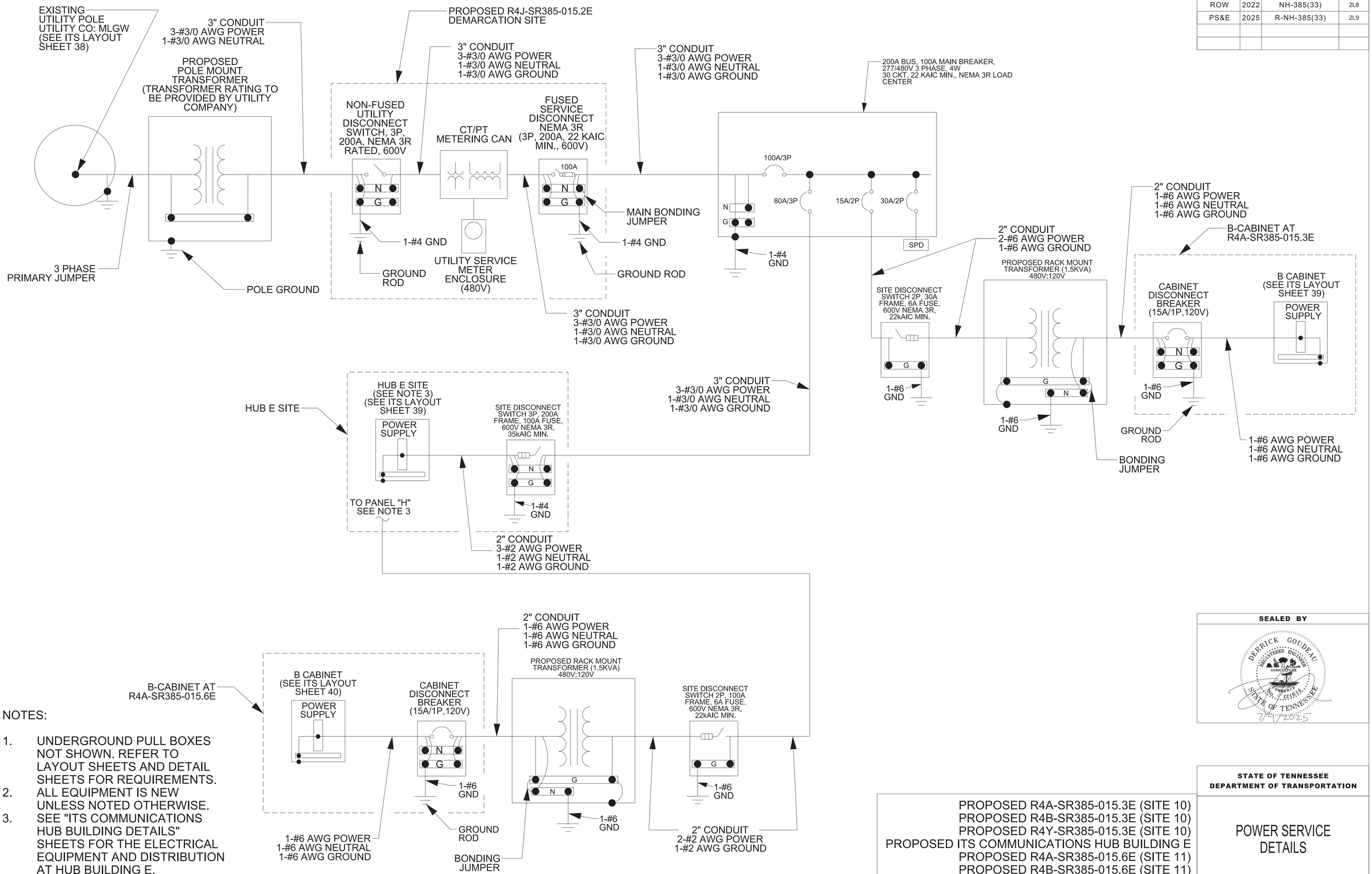


STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

POWER SERVICE
DETAILS

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TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	2L8
PS&E	2025	R-NH-385(33)	2L9



NOTES:

1. UNDERGROUND PULL BOXES NOT SHOWN. REFER TO LAYOUT SHEETS AND DETAIL SHEETS FOR REQUIREMENTS.
2. ALL EQUIPMENT IS NEW UNLESS NOTED OTHERWISE.
3. SEE "ITS COMMUNICATIONS HUB BUILDING DETAILS" SHEETS FOR THE ELECTRICAL EQUIPMENT AND DISTRIBUTION AT HUB BUILDING E.

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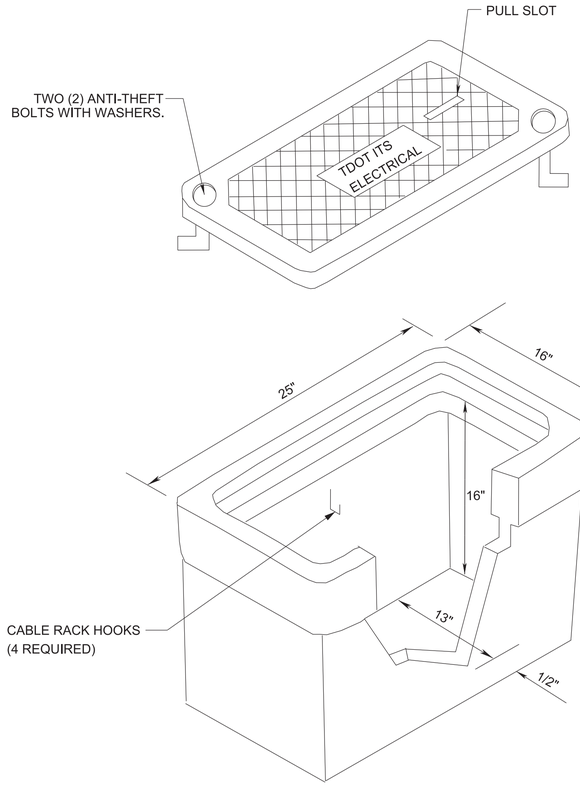
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DEPARTMENT OF TRANSPORTATION

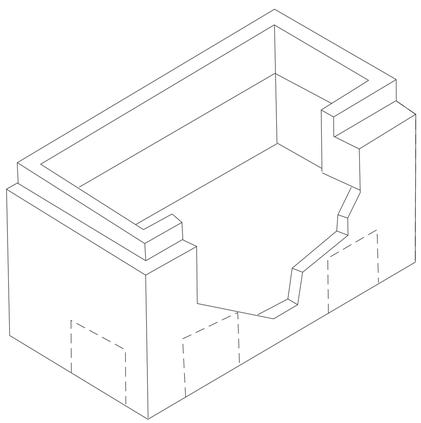
PROPOSED R4A-SR385-015.3E (SITE 10)
PROPOSED R4B-SR385-015.3E (SITE 10)
PROPOSED R4Y-SR385-015.3E (SITE 10)
PROPOSED ITS COMMUNICATIONS HUB BUILDING E
PROPOSED R4A-SR385-015.6E (SITE 11)
PROPOSED R4B-SR385-015.6E (SITE 11)

POWER SERVICE DETAILS

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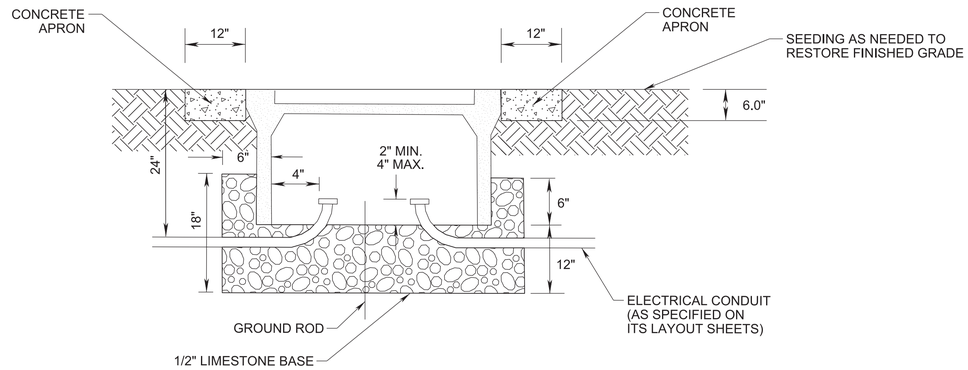
TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	2M
PS&E	2025	R-NH-385(33)	2M





TYPICAL TYPE "C" PULL BOX ASSEMBLY

N.T.S.



TYPICAL TYPE "C" PULL BOX INSTALLATION

N.T.S.

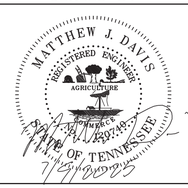
NOTES:

TYPE "C" PULL BOX WITH COVER

THE PULL BOX SHALL MEET THE FOLLOWING REQUIREMENTS:

1. MINIMUM DIMENSIONS: 25"W X 16"L X 18"D EXTERIOR, 24"W X 13"L X 16"D INTERIOR.
2. PULL BOX COVER SHALL BE PRECAST COMPOSITE POLYMER CONCRETE PRODUCT.
3. PULL BOXES AND COVERS SHALL BE SINGLE-STACK OPEN-BOTTOM ASSEMBLIES CONFIGURED AS SHOWN IN THE PLANS.
4. SHALL MEET OR EXCEED CURRENT ANSI/SCTE 77 TIER 22 LOADING REQUIREMENTS.
5. PULL BOX SHALL MEET CURRENT NEC STANDARDS FOR HANDHOLE ENCLOSURES.
6. PULL BOX COVER SHALL BE LABELED (TDOT ITS ELECTRICAL).
7. TYPE "C" PULL BOXES SHALL ONLY BE USED FOR ELECTRICAL POWER CONDUIT/WIRING.
8. UNUSED CONDUIT SHALL BE STUBBED OUT AND CAPPED TO PRESERVE FOR FUTURE USE.
9. GPS COORDINATES OF EACH PULL BOX WILL BE RECORDED IN THE AS-BUILT PLANS TO BE TURNED IN WITH THIS PROJECT.
10. TYPE "C" PULL BOXES SHALL HAVE 12" WIDE (MIN.) X 6" DEEP CONCRETE APRON SLOPED AWAY FROM BOX. APRON IS TO BE INCLUDED IN THE COST OF EACH BOX.
11. ALL CONDUITS SHALL BE TERMINATED WITH A TERMINATOR KIT.
12. GROUND ROD WILL BE INSTALLED AT EVERY ELECTRICAL PULL BOX. BOND ALL EQUIPMENT GROUND CONDUCTORS TO THE GROUND ROD.

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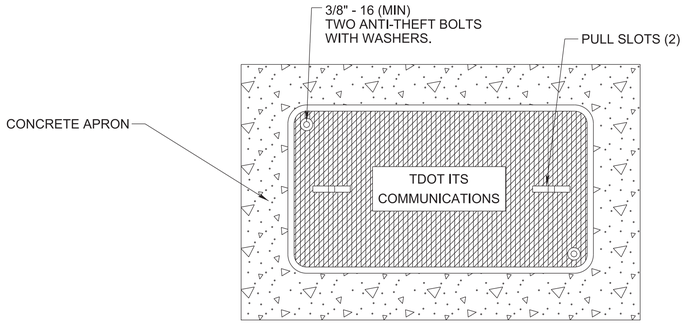


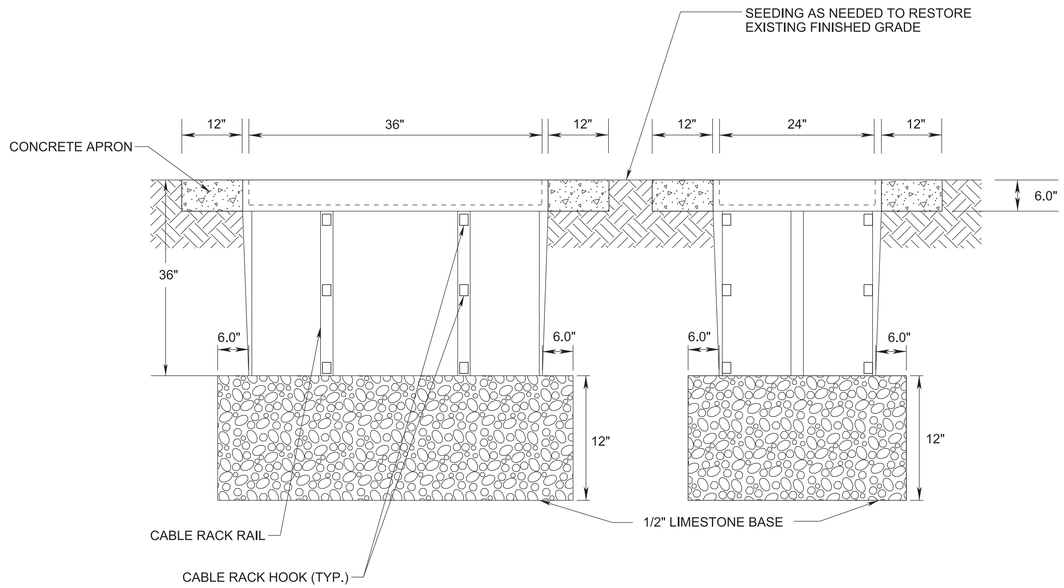
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TYPICAL TYPE "C" PULL BOX DETAILS

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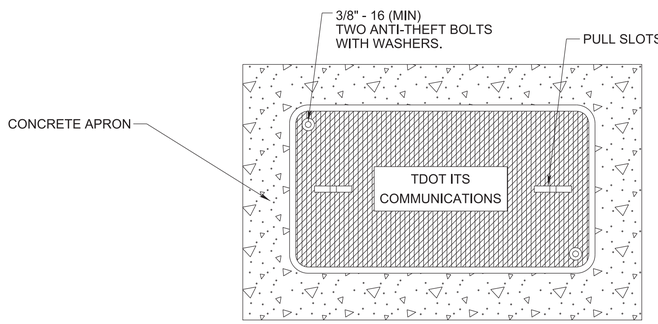
TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	2M1
PS&E	2025	R-NH-385(33)	2M1

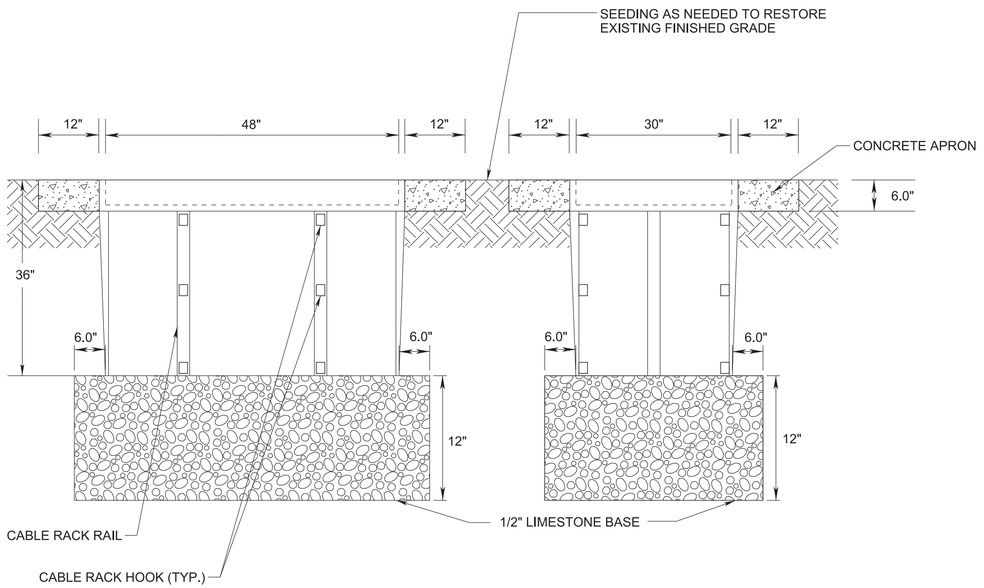




TYPE "D" PULL BOX ASSEMBLY

N.T.S.





TYPE "E" PULL BOX ASSEMBLY

N.T.S.

NOTES:

TYPE "D" & "E" PULL BOX WITH COVER SHALL MEET THE FOLLOWING REQUIREMENTS:

1. PULL BOX COVER SHALL BE PRECAST COMPOSITE POLYMER CONCRETE PRODUCT.
2. PULL BOXES & COVERS SHALL BE SINGLE-STACK OPEN-BOTTOM ASSEMBLIES CONFIGURED AS SHOWN IN PLANS.
3. SHALL MEET OR EXCEED CURRENT ANSI/SCTE 77 TIER 22 LOADING REQUIREMENTS.
4. PULL BOX SHALL MEET CURRENT NEC STANDARDS FOR HANDHOLE ENCLOSURES.
5. PULL BOX COVER SHALL BE LABELED (TDOT ITS COMMUNICATIONS).
6. EACH PULL BOX SHALL COME EQUIPPED WITH 4 CABLE RACKS & 12 RACK HOOKS. THE CABLE RACKS SHALL BE A MIN. OF 24" & RACK HOOKS SHALL BE A MIN. OF 7" IN LENGTH. THE CABLE RACKS AND RACK HOOKS SHALL BE HOT-DIPPED GALVANIZED STEEL.
7. TYPE "D" AND "E" PULL BOXES SHALL ONLY BE USED FOR COMMUNICATIONS CONDUIT/CABLING.
8. GPS COORDINATES OF EACH PULL BOX WILL BE RECORDED IN THE AS-BUILT PLANS TO BE TURNED IN WITH THIS PROJECT.
9. UNUSED CONDUIT SHALL BE STUBBED OUT AND CAPPED TO PRESERVE FOR FUTURE USE.
10. CONDUIT SHALL ENTER TYPE "D" AND "E" PULL BOXES THROUGH THE SIDEWALL.
11. HOLES ALONG THE SIDEWALLS SHALL BE CUT BY THE CONTRACTOR.
12. ALL TYPE "D" AND "E" PULL BOXES SHALL HAVE 12" WIDE (MIN.) X 6" DEEP CONCRETE APRONS SLOPED AWAY FROM BOX. APRON IS TO BE INCLUDED IN THE COST OF EACH BOX.
13. ALL CONDUITS SHALL BE TERMINATED WITH A TERMINATOR KIT.

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TYPICAL TYPE "D" & "E" PULL BOX DETAILS

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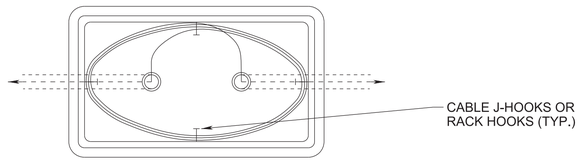
TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	2M2
PS&E	2025	R-NH-385(33)	2M2

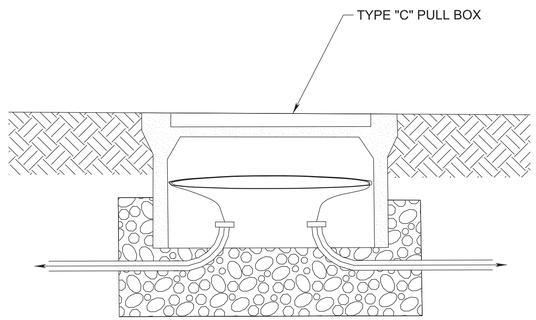
CABLE TYPE	TYPE "C" PULL BOX	TYPE "D" PULL BOX	TYPE "E" PULL BOX	STRUCTURE MOUNTED PULL BOX	PAD-MOUNTED CABINET BASE	POLE-MOUNTED CABINET
FIBER OPTIC CABLES (TRUNK)	- -	50	200	10	25	25
FIBER OPTIC CABLES (DROP)	- -	25	100	10	25	25
ELECTRICAL SERVICE CONDUCTORS	10	- -	- -	- -	10	10
RDS CABLE	20	20	20	- -	20	20
DMS COMM CABLE	10	10	- -	- -	10	- -
DMS PWR CABLE	10	10	- -	- -	10	- -

NOTE: SEE SP 725 FOR ADDITIONAL INFORMATION

TYPICAL CABLE COIL INSTALLATION GUIDE

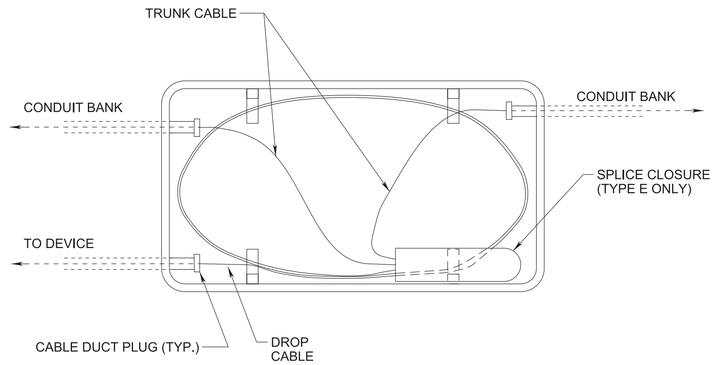
(FEET OF COIL LENGTH PER ENTERING CABLE)

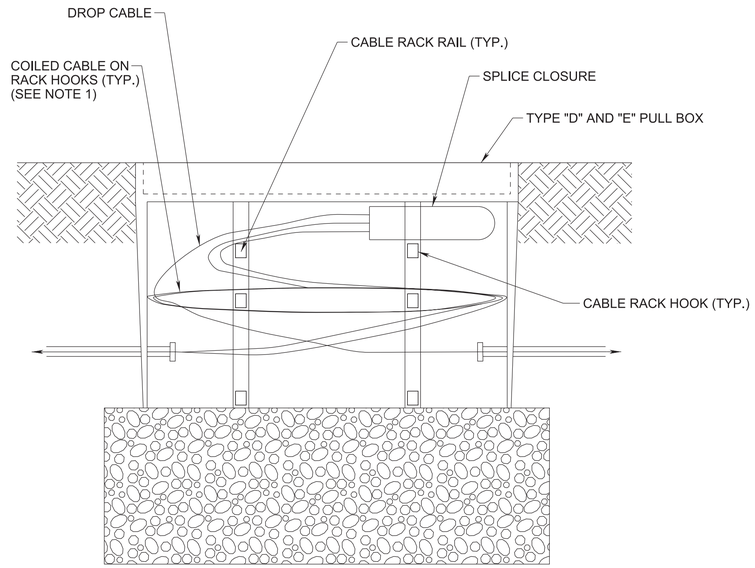




CABLE MANAGEMENT IN TYPE "C" PULL BOX

N.T.S.





CABLE MANAGEMENT IN TYPE "D" AND "E" PULL BOX

N.T.S.

NOTES:

1. FIBER TRUNK AND DROP CABLES SHALL BE COILED TOGETHER. OTHER DEVICE CABLES SHALL BE COILED SEPARATELY AND SUPPORTED ON J-HOOKS OR RACK HOOKS.
2. CONDUIT MAY ENTER THE LONG SIDE OF THE PULL BOX WHEN FIELD CONDITIONS WARRANT.

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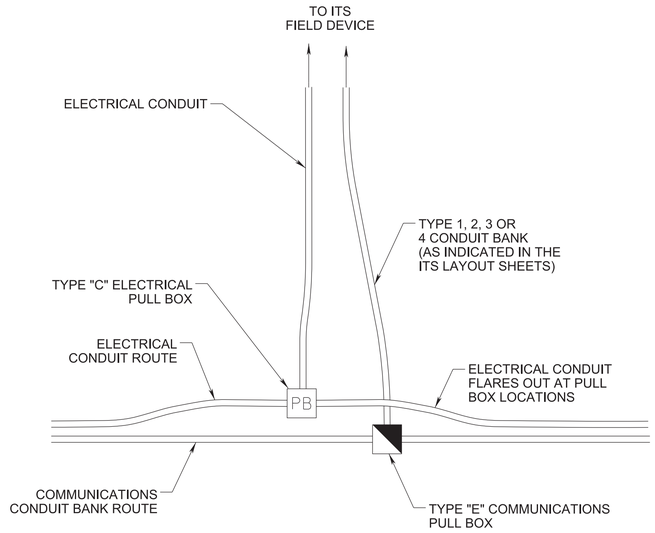


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TYPICAL CABLE MANAGEMENT DETAILS

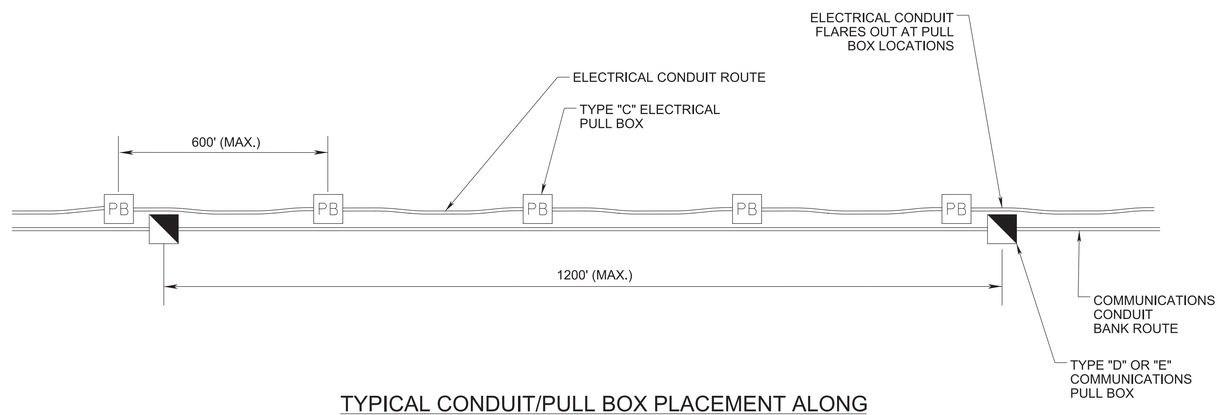
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TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	2M3
PS&E	2025	R-NH-385(33)	2M3



TYPICAL CONDUIT/PULL BOX PLACEMENT AT ITS FIELD DEVICE

N.T.S.



TYPICAL CONDUIT/PULL BOX PLACEMENT ALONG

FIBER OPTIC COMMUNICATIONS TRUNKLINE

N.T.S.

CONDUIT ROUTING NOTES:

1. COMMUNICATIONS AND ELECTRICAL CONDUIT MAY SHARE THE SAME TRENCH. HOWEVER THEY SHALL NEVER SHARE THE SAME PULL BOXES. SEPARATE PULL BOXES ARE REQUIRED FOR EACH CONDUIT SYSTEM.
2. COMMUNICATIONS AND ELECTRICAL CONDUIT ROUTES MUST FLARE OUT AS SHOWN IN DETAILS ABOVE AT LOCATIONS WHERE PULL BOXES ARE TO BE INSTALLED TO PROVIDE SUFFICIENT ROOM FOR PULL BOX CONSTRUCTION.
3. THE SPACING BETWEEN PULL BOXES SHALL BE 600 FT MAXIMUM FOR ELECTRICAL CONDUIT ROUTES AND 1200' MAXIMUM FOR THE COMMUNICATIONS TRUNKLINE (AS DEPICTED ON THE ITS LAYOUT SHEETS).
4. PRIMARY POWER CONDUIT SHALL BE INSTALLED AT A MINIMUM DEPTH OF 42" WITH A MINIMUM HORIZONTAL SEPARATION FROM COMMUNICATIONS CONDUIT OF 1'.

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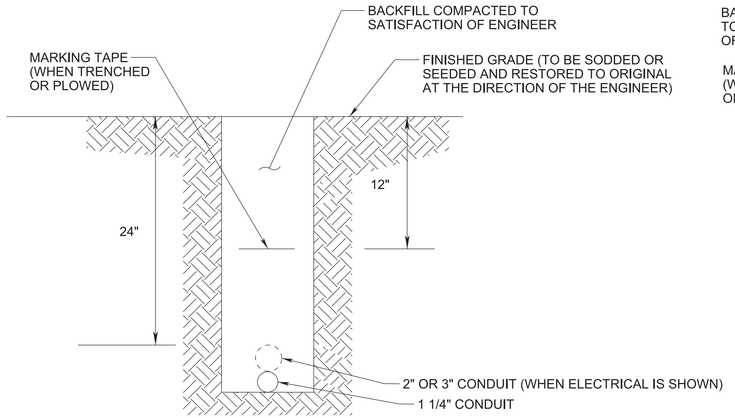


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DEPARTMENT OF TRANSPORTATION

TYPICAL CONDUIT AND TRENCHING DETAILS

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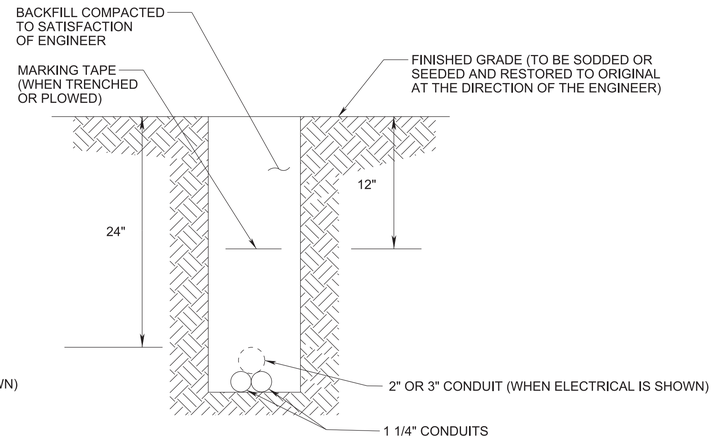
TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	2M4
PS&E	2025	R-NH-385(33)	2M4



CONDUIT BANK TYPE 1

N.T.S.

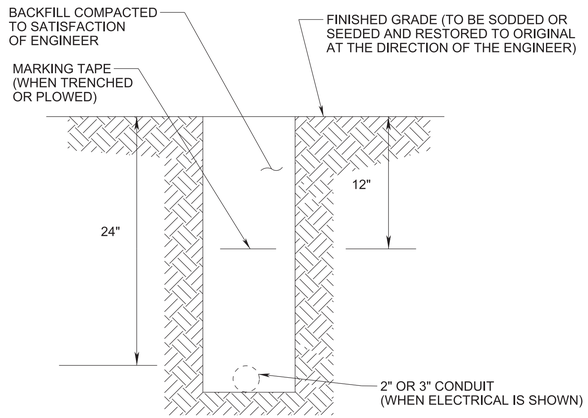
ONE 1 1/4" COMMUNICATIONS CONDUIT WITH OR WITHOUT ONE 2" OR 3" ELECTRICAL CONDUIT WHICH IS PAID SEPARATELY



CONDUIT BANK TYPE 2

N.T.S.

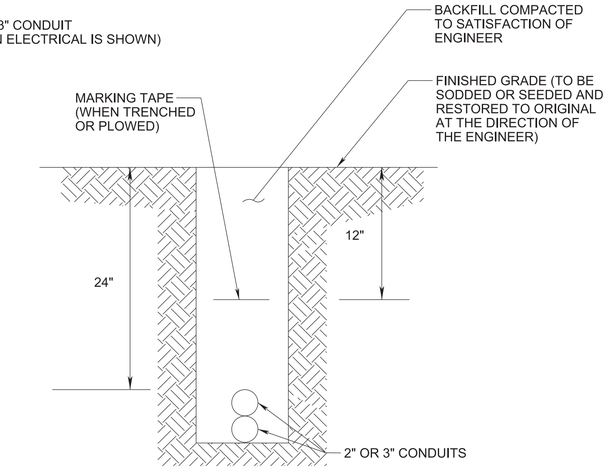
TWO 1 1/4" COMMUNICATIONS CONDUITS WITH OR WITHOUT ONE 2" OR 3" ELECTRICAL CONDUIT WHICH IS PAID SEPARATELY



2" OR 3" CONDUIT

N.T.S.

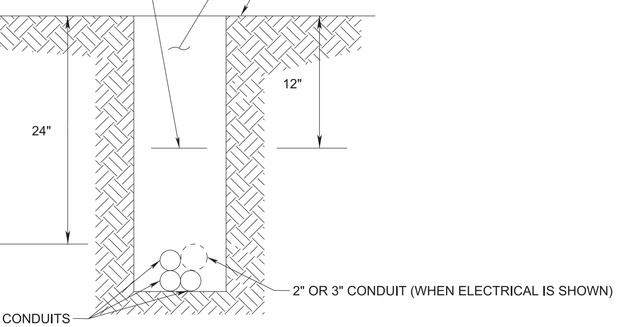
ONE 2" OR 3" CONDUIT



MULTIPLE 2" OR 3" CONDUITS

N.T.S.

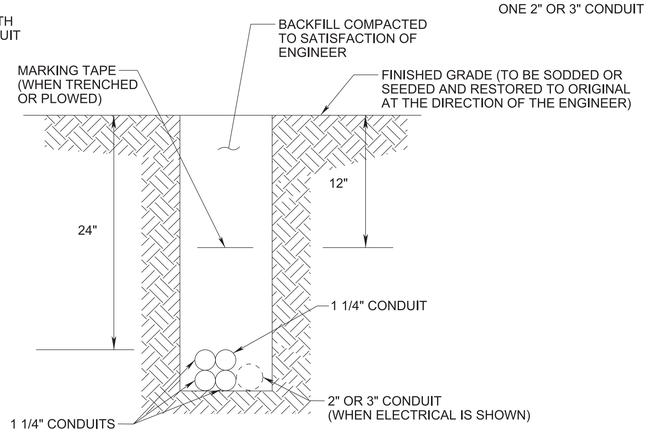
TWO 2" OR 3" CONDUITS



CONDUIT BANK TYPE 3

N.T.S.

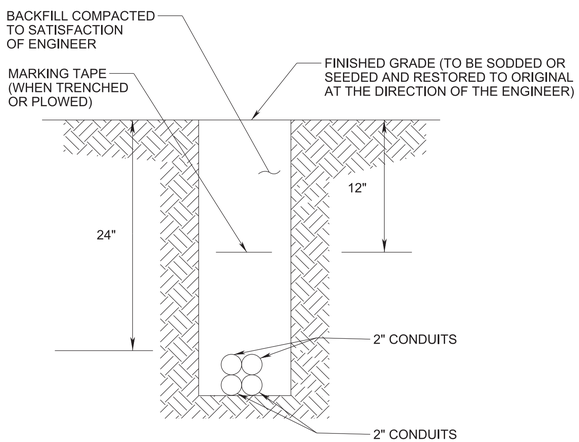
THREE 1 1/4" COMMUNICATIONS CONDUITS WITH OR WITHOUT ONE 2" OR 3" ELECTRICAL CONDUIT WHICH IS PAID SEPARATELY



CONDUIT BANK TYPE 4

N.T.S.

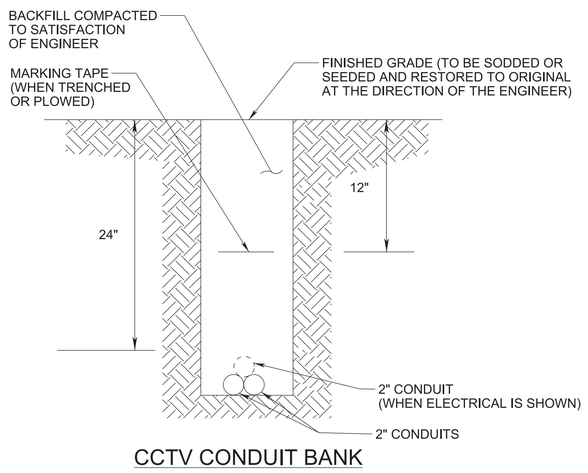
FOUR 1 1/4" COMMUNICATIONS CONDUITS WITH OR WITHOUT ONE 2" OR 3" ELECTRICAL CONDUIT WHICH IS PAID SEPARATELY



DMS CONDUIT BANK

N.T.S.

TWO SPARE 2" CONDUITS WITH ONE 2" COMMUNICATIONS CONDUIT WITH ONE 2" ELECTRICAL CONDUIT



CCTV CONDUIT BANK

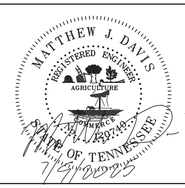
N.T.S.

TWO 2" COMMUNICATIONS CONDUITS WITH OR WITHOUT ONE 2" ELECTRICAL CONDUIT

NOTES:

1. DETAILS FOR CONDUIT BANKS APPEAR AS TRENCHED INSTALLATION FOR GRAPHICAL PURPOSES ONLY. AS DESCRIBED IN SP 725, CONDUIT BANKS IN EARTH MAY BE TRENCHED, PLOWED, BORED, OR DRILLED.
2. ELECTRICAL AND COMMUNICATIONS CONDUIT SIZES VARY THROUGHOUT THE PROJECT. REFER TO THE CONDUIT AND CABLE SCHEDULES SHOWN ON EACH ITS LAYOUT SHEET FOR INDIVIDUAL CONDUIT SIZES.
3. WARNING TAPE SHALL BE LABELED "WARNING - ELECTRICAL/FIBER OPTIC CABLE BELOW."
4. IF A DRAINAGE OR UTILITY CONFLICT ARISES THE CONTRACTOR SHALL SUBMIT A PLAN FOR RESOLVING THE CONFLICT TO THE ENGINEER FOR REVIEW AND APPROVAL.
5. ALL CONDUIT USED ON THIS PROJECT SHALL CONFORM TO THE COLOR SCHEME AND USE IN ACCORDANCE WITH THE SP 725.
6. PRIMARY POWER CONDUIT SHALL BE INSTALLED AT A MINIMUM DEPTH OF 42" WITH A MINIMUM HORIZONTAL SEPARATION FROM COMMUNICATIONS CONDUIT OF 1'.

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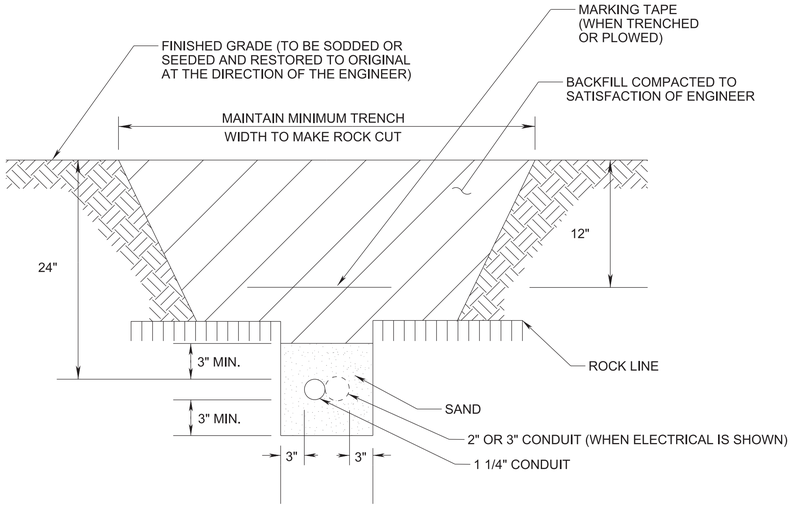


STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL CONDUIT AND TRENCHING DETAILS (CONTINUED)

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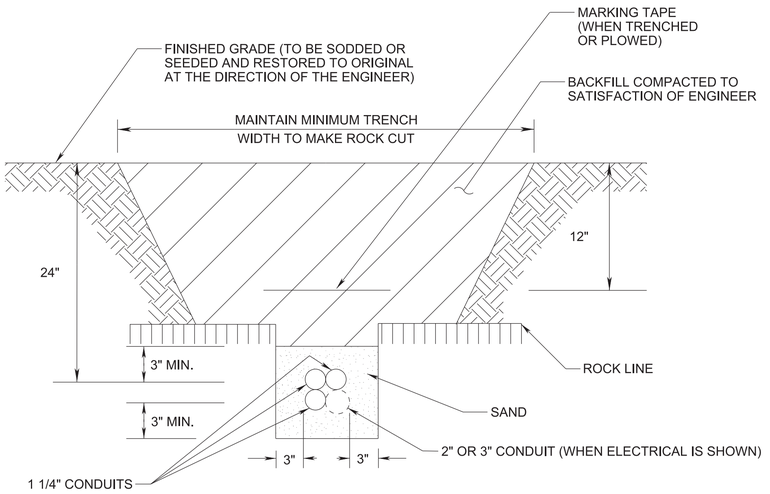
TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	2M5
PS&E	2025	R-NH-385(33)	2M5



CONDUIT BANK TYPE 1 IN ROCK

N.T.S.

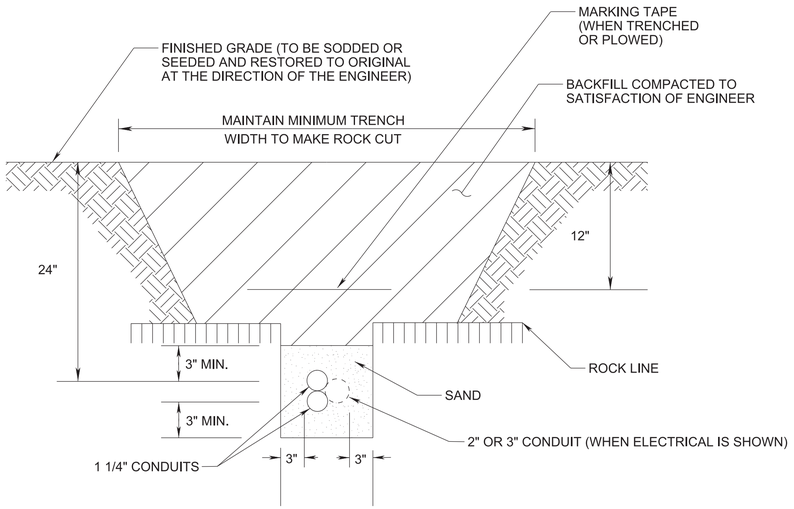
ONE 1 1/4" COMMUNICATIONS CONDUITS WITH OR WITHOUT ONE 2" OR 3" ELECTRICAL CONDUIT WHICH IS PAID SEPARATELY



CONDUIT BANK TYPE 3 IN ROCK

N.T.S.

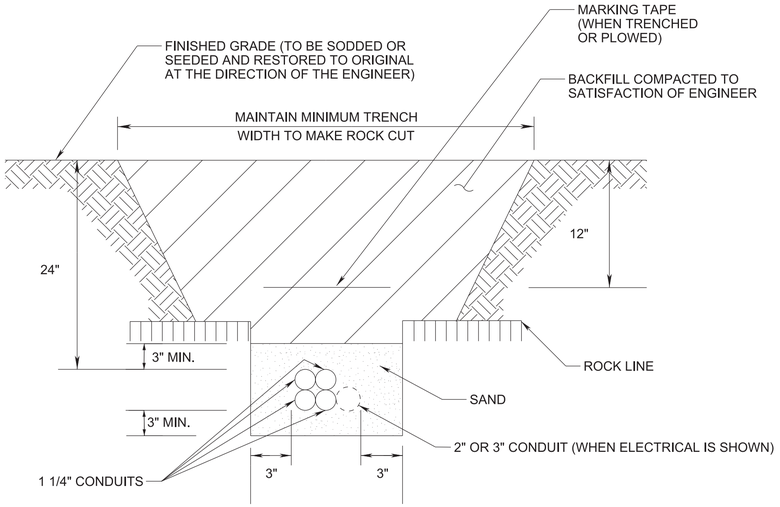
THREE 1 1/4" COMMUNICATIONS CONDUITS WITH OR WITHOUT ONE 2" OR 3" ELECTRICAL CONDUIT WHICH IS PAID SEPARATELY



CONDUIT BANK TYPE 2 IN ROCK

N.T.S.

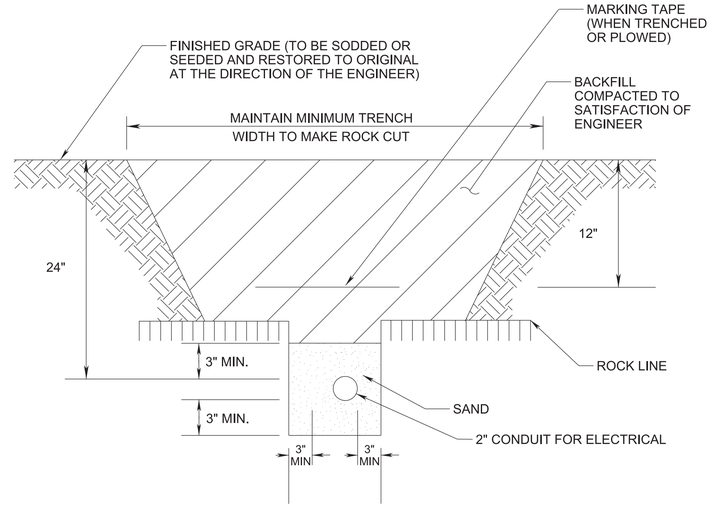
TWO 1 1/4" COMMUNICATIONS CONDUITS WITH OR WITHOUT ONE 2" OR 3" ELECTRICAL CONDUIT WHICH IS PAID SEPARATELY



CONDUIT BANK TYPE 4 IN ROCK

N.T.S.

FOUR 1 1/4" COMMUNICATIONS CONDUITS WITH OR WITHOUT ONE 2" OR 3" ELECTRICAL CONDUIT WHICH IS PAID SEPARATELY



2" CONDUIT IN ROCK

N.T.S.

2" ELECTRICAL CONDUIT

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NOTES:

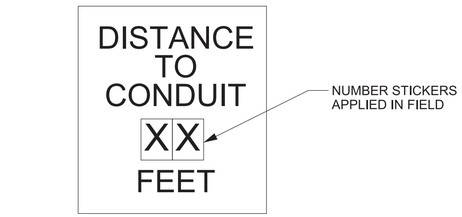
1. WHERE ROCK IS FOUND TRENCH MUST CONTAIN MINIMUM 3" SAND COVER OVER CONDUIT THEN 9" BACK FILL WITH SOIL FREE OF ROCKS OR OTHER FOREIGN MATTER. THE REMAINDER OF THE TRENCH MAY BE BACK-FILLED WITH EXISTING MATERIAL REMOVED FROM THE TRENCH PROVIDED NO STONES ARE GREATER THAN #2 STONE.
2. ELECTRICAL AND COMMUNICATIONS CONDUIT SIZES VARY THROUGHOUT THE PROJECT. REFER TO THE CONDUIT AND CABLE SCHEDULES SHOWN ON EACH ITS LAYOUT SHEET FOR INDIVIDUAL CONDUIT SIZES.
3. WARNING TAPE SHALL BE LABELED "WARNING - ELECTRICAL/FIBER OPTIC CABLE BELOW."
4. IF A DRAINAGE OR UTILITY CONFLICT ARISES THE CONTRACTOR SHALL SUBMIT A PLAN FOR RESOLVING THE CONFLICT TO THE ENGINEER FOR REVIEW AND APPROVAL.
5. ALL CONDUIT USED ON THIS PROJECT SHALL CONFORM TO THE COLOR SCHEME AND USE IN ACCORDANCE WITH THE SP 725.
6. PRIMARY POWER CONDUIT SHALL BE INSTALLED AT A MINIMUM DEPTH OF 42" WITH A MINIMUM HORIZONTAL SEPARATION FROM COMMUNICATIONS CONDUIT OF 1'

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL CONDUIT AND TRENCHING DETAILS IN ROCK

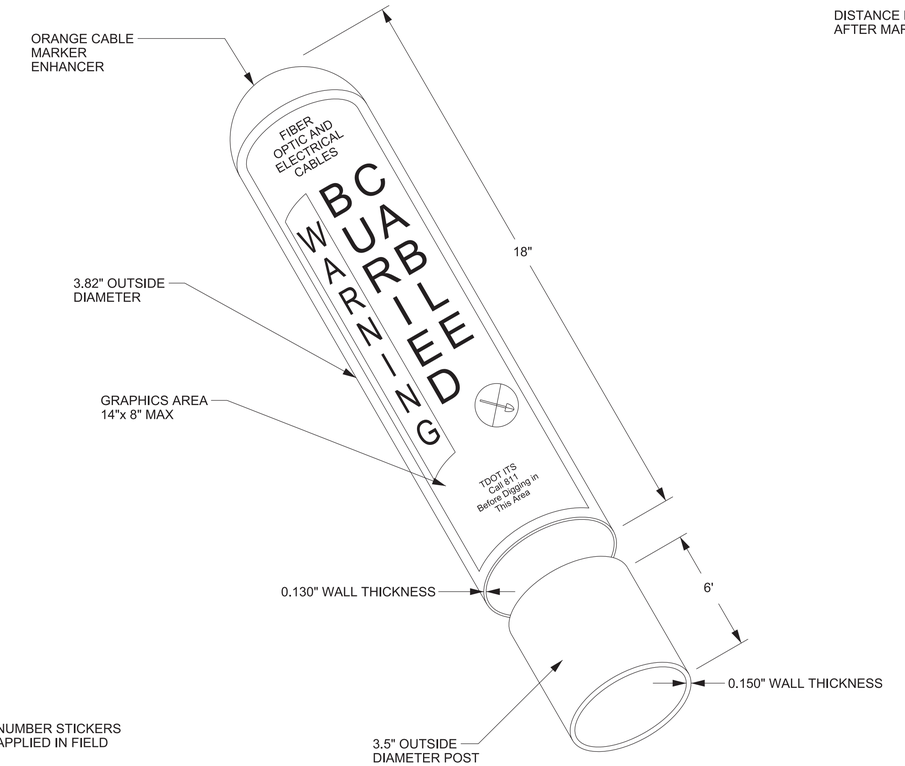
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TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	2M6
PS&E	2025	R-NH-385(33)	2M6



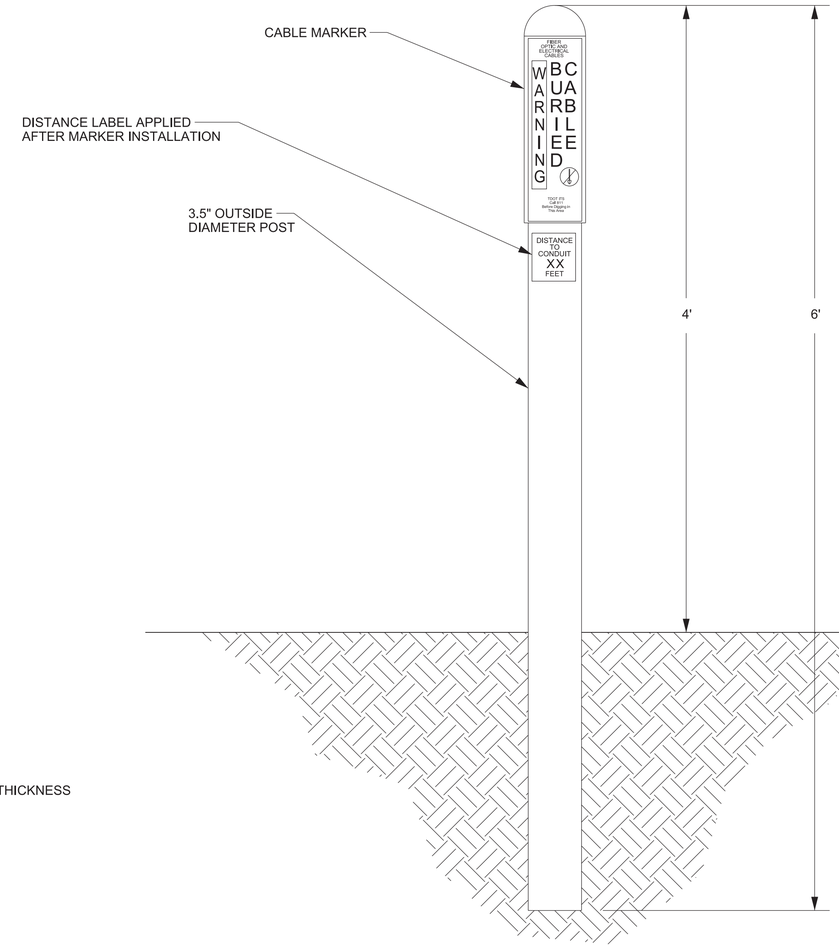
PRE PRINTED DISTANCE LABEL

N.T.S.



DETAIL VIEW OF CABLE MARKER

N.T.S.



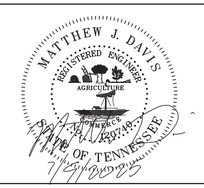
TYPICAL INSTALLATION OF CABLE MARKER

N.T.S.

NOTES:

1. THE CONTRACTOR SHALL USE 811 FOR THE NUMBER TO INCLUDE ON THE CABLE MARKER LABEL PRIOR TO FABRICATION.
2. ALL CABLE MARKER LOCATIONS SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION. THE PROPOSED SCHEDULE FOR INSTALLING THE CABLE MARKERS SHALL ALSO BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.
3. AFTER THE CABLE MARKERS ARE INSTALLED, THE DISTANCE TO CONDUIT LABELS SHALL BE APPLIED.
4. INSTALL CABLE MARKERS AT THE FOLLOWING LOCATIONS:
   A. WITHIN 30 FEET LATERALLY EVEN WITH EACH PULL BOX, OR ADJACENT PULL BOXES, ON CONDUIT RUNS PARALLEL TO THE ROADWAY. IF DISTANCE BETWEEN PULL BOXES IS GREATER THAN 650 FEET, ONE ADDITIONAL CABLE MARKER SHALL BE PLACED AT THE MIDPOINT BETWEEN THE ADJACENT PULL BOXES, WITH 30 FEET LATERALLY OF THE CONDUIT ROUTE. ADDITIONAL CABLE MARKERS SHALL BE PLACED SUCH THAT NO DISTANCE BETWEEN CABLE MARKERS SHALL BE GREATER THAN 650 FEET.
   B. DIRECTLY BESIDE ANY PULL BOX THAT IS ON THE INTERIOR OF AN INTERCHANGE.
   C. AT EACH END OF ANY BORE UNDER A ROADWAY, DIRECTLY BESIDE THE PULL BOXES.
   D. ANY ADDITIONAL LOCATIONS DIRECTED BY THE ENGINEER.

SEALED BY



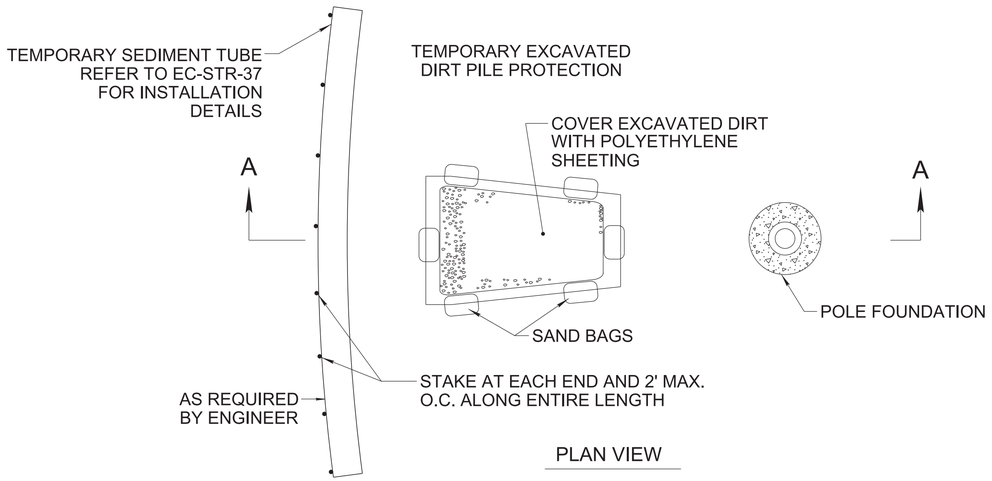
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL CABLE MARKER DETAILS

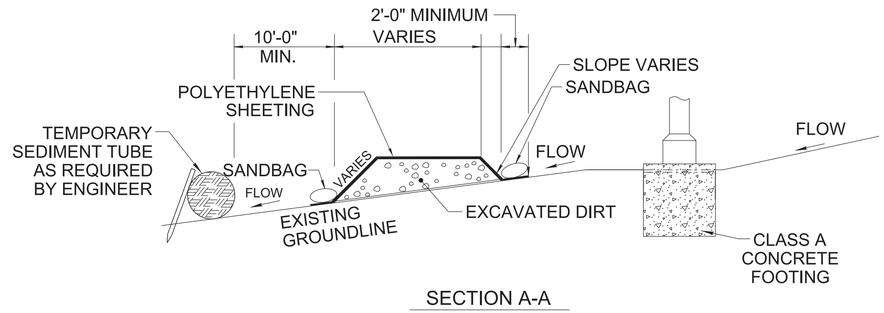
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TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	2M7
PS&E	2025	R-NH-385(33)	2M7

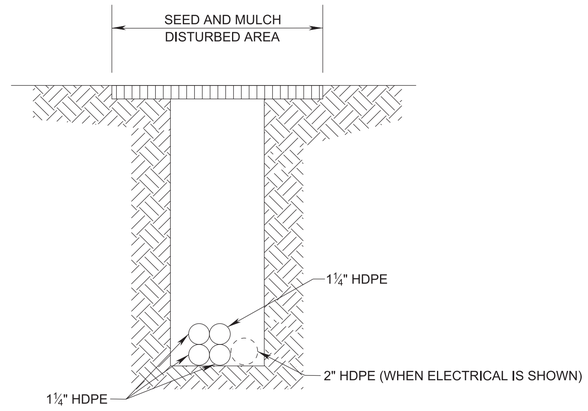
POLE OR SIGN FOUNDATION EROSION CONTROL



PLAN VIEW

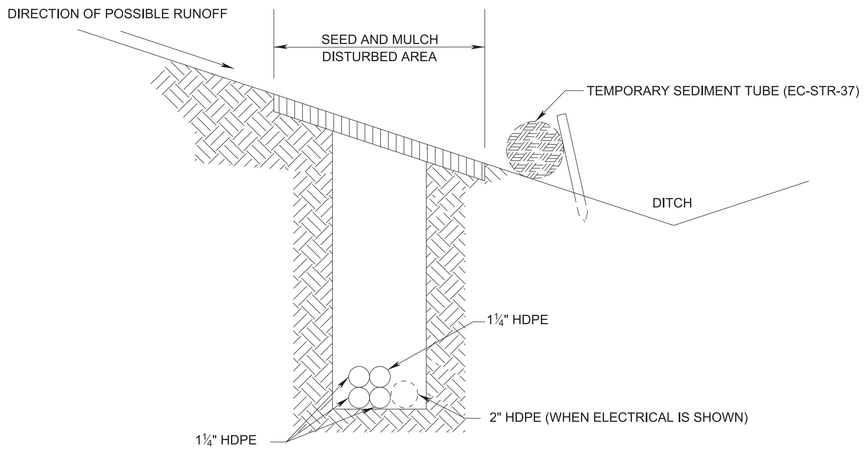


SECTION A-A



EROSION CONTROL FOR
TYPICAL TRENCH CONFIGURATION
FOR COMMUNICATION AND POWER
CONDUITS IN EARTH

N.T.S.



EROSION CONTROL FOR
TYPICAL TRENCH CONFIGURATION NEAR
STREAMS FOR COMMUNICATION AND POWER
CONDUITS IN EARTH

N.T.S.

APPROXIMATE QUANTITIES (PER EACH POLE)			
ITEM NO.	DESCRIPTION	UNIT	QUANTITY
209-09.01	SANDBAGS	BAG	6
209-20.03	POLYETHYLENE SHEETING (6 MIL MINIMUM)	S.Y.	25
740-11.02	TEMPORARY SEDIMENT TUBE (12 INCH)	L.F.	30

APPROXIMATE QUANTITIES (PER EACH DMS SIGN FOUNDATION)			
ITEM NO.	DESCRIPTION	UNIT	QUANTITY
209-09.01	SANDBAGS	BAG	6
209-20.03	POLYETHYLENE SHEETING (6 MIL MINIMUM)	S.Y.	89
740-11.02	TEMPORARY SEDIMENT TUBE (12 INCH)	L.F.	30

DISTURBED AREA		
DESCRIPTION	UNIT	QUANTITY
DISTURBED AREA	AC	5.1
PROJECT TOTAL DISTURBED AREA	AC	5.1

NOTES:

1. EROSION CONTROL DEVICES SHALL BE PLACED IMMEDIATELY AFTER AREA IS DISTURBED AND SHALL REMAIN IN PLACE UNTIL LOCATION IS COVERED WITH SEED AND MULCH.
2. THESE TYPICAL DETAILS WILL BE USED AT THE DISCRETION OF THE ENGINEER BASED ON THE LOCATION AND DURATION OF THE DISTURBED AREAS. IF THE FOUNDATION IS IN A LOCATION WHERE RUNOFF IS NOT AN ISSUE, THE LOCATION MAY NOT REQUIRE THE USE OF THESE TEMPORARY EROSION CONTROL MEASURES, BUT WILL STILL REQUIRE PERMANENT SEED AND MULCH.
3. EXCAVATED DIRT THAT IS NOT NEEDED FOR BACKFILL SHALL BE REMOVED IMMEDIATELY AFTER EXCAVATION.
4. ALL OPEN TRENCHES TO BE BACKFILLED IMMEDIATELY AFTER CONDUIT INSTALLATION AND SEED AND MULCH PLACED DOWN OVER THE TRENCHED AREA.
5. IF CONDUIT IS PLOWED, THE NEED FOR PERMANENT SEED AND MULCH WILL BE DETERMINED BY THE ENGINEER BASED ON THE AMOUNT OF DISTURBED SOIL.

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL DETAILS FOR EROSION PREVENTION AND SEDIMENT CONTROL

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TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	3
PS&E	2025	R-NH-385(33)	3

UTILITY NOTES

(1) THE LOCATIONS OF UTILITIES SHOWN WITHIN THESE PLANS ARE 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 DONE SO WITH THIS CIRCUMSTANCE CONSIDERED. DETAILED 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 UTILITY COMPANY. 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 (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 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.

(4) PRIOR TO SUBMITTING HIS BID, THE CONTRACTOR WILL BE SOLELY RESPONSIBLE FOR CONTACTING OWNERS OF ALL AFFECTED UTILITIES IN ORDER TO DETERMINE THE EXTENT TO WHICH UTILITY RELOCATIONS AND/OR ADJUSTMENTS WILL HAVE UPON THE SCHEDULE OF WORK FOR THE PROJECT. WHILE SOME WORK MAY BE REQUIRED 'AROUND' UTILITY FACILITIES THAT WILL REMAIN IN PLACE, OTHER UTILITY FACILITIES MAY NEED TO BE ADJUSTED CONCURRENTLY WITH THE CONTRACTOR'S OPERATIONS. ADVANCE CLEAR CUTTING MAY BE REQUIRED BY THE ENGINEER AT ANY LOCATION WHERE CLEARING IS CALLED FOR IN THE SPECIFICATIONS AND CLEAR CUTTING IS NECESSARY FOR A UTILITY RELOCATION. ANY ADDITIONAL COST WILL BE INCLUDED IN THE UNIT PRICE BID FOR THE CLEARING ITEM SPECIFIED IN THE PLANS.

(5) THE CONTRACTOR SHALL NOTIFY EACH INDIVIDUAL UTILITY OWNER OF HIS PLAN OF OPERATION IN THE AREA OF THE UTILITIES. PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL CONTACT THE UTILITY OWNERS AND REQUEST THEM TO PROPERLY LOCATE THEIR RESPECTIVE UTILITY ON THE GROUND. THIS NOTIFICATION SHALL BE GIVEN AT LEAST THREE (3) BUSINESS DAYS PRIOR TO COMMENCEMENT OF OPERATIONS AROUND THE UTILITY IN ACCORDANCE WITH TCA 65-31-106. NOTIFICATION BY CALLING THE TENNESSEE ONE CALL SYSTEM, INC AT 1-800-351-1111 WILL BE REQUIRED.

UTILITY OWNERS AND CONTACTS:

WATER, GAS, ELECTRIC	MEMPHIS LIGHT, GAS AND WATER 220 SOUTH MAIN ST. MEMPHIS, TN 38103 MICHAEL TART 901-334-8065 mtart@mlgw.org

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

UTILITY OWNERS AND NOTES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	4
PS&E	2025	R-NH-385(33)	4



SEALED BY

MATTHEW J. DAVIS
REGISTERED ENGINEER
AGRICULTURE
No. 129748
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SHEET KEY AND ITS LAYOUT

SR-385

SCALE 1" = 1500'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	5
PS&E	2025	R-NH-385(33)	5



MATCHLINE 124759 STA. 113+00 SEE SHEET NO. 6

N

SEALED BY

MATTHEW J. DAVIS
REGISTERED ENGINEER
AGRICULTURE
120748
STATE OF TENNESSEE
7/31/2025

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ITS LAYOUT

SR-385
SCALE 1" = 50'
PIN 124759
STA. 100+00 TO 113+00

7/9/2025 9:17:59 AM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	6
PS&E	2025	R-NH-385(33)	6



NOTES:

1. SPLICE NEW 144 COUNT FIBER OPTIC CABLE INTO EXISTING 60 COUNT FIBER OPTIC CABLE AND EXISTING 12 COUNT FIBER OPTIC DROP CABLE TO HAR TRANSMITTER R4K-SR385-007.4E. HUB BUILDING E SHALL BE CONSTRUCTED AND NETWORK EQUIPMENT OPERATING PRIOR TO THIS SPLICE TAKING PLACE TO MINIMIZE DISRUPTION TO EXISTING DEVICES BETWEEN THIS SITE AND HUB A.
2. EXISTING FIBER OPTIC SPLICE CLOSURE TO BE REPLACED WITH NEW FIBER OPTIC SPLICE CLOSURE CAPABLE OF MANAGING 144 COUNT FIBER OPTIC CABLE AND 62 SPLICES.
3. UTILITY CROSSINGS ON STREAMS AT THE PERMITTED LOCATIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH TDOT STANDARDS AND NO WORK SHALL BE DONE IN FLOWING WATER. THE DISTURBED AREA SHALL BE RESTORED TO EXISTING CONDITIONS.
4. THE CONTRACTOR SHALL USE ANY MEASURES NECESSARY TO ENSURE THAT CONSTRUCTION AND CONSTRUCTION EQUIPMENT WILL NOT ENTER ANY PORTION OF STR-1 AND STR-2 AND THAT THE FEATURE'S SURROUNDING VEGETATION WILL NOT BE DISTURBED AND ARE PROTECTED FROM SEDIMENT AND OTHER POLLUTANTS EXCEPT AT THE PERMITTED LOCATION.
5. HIGH VISIBILITY FENCE (S-F-1) SHALL BE PLACED AROUND ALL NON-IMPACTED SECTIONS OF WATER QUALITY FEATURES (STR-1 AND STR-2) WITHIN 50' OF GROUND DISTURBANCE DUE TO CONSTRUCTION WITHIN THE ROW OR EASEMENTS.

SEALED BY

MATTHEW J. DAVIS
REGISTERED ENGINEER
AGRICULTURE
No. 127745
STATE OF TENNESSEE
7/9/2025

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ITS LAYOUT

SR-385
SCALE 1" = 50'
PIN 124759
STA. 113+00 TO 126+00

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TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	7
PS&E	2025	R-NH-385(33)	7



N

NOTES:

1. UTILITY CROSSINGS ON STREAMS AT THE PERMITTED LOCATIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH TDOT STANDARDS AND NO WORK SHALL BE DONE IN FLOWING WATER. THE DISTURBED AREA SHALL BE RESTORED TO EXISTING CONDITIONS.

2. THE CONTRACTOR SHALL USE ANY MEASURES NECESSARY TO ENSURE THAT CONSTRUCTION AND CONSTRUCTION EQUIPMENT WILL NOT ENTER ANY PORTION OF THE STREAM OR WETLAND AND THAT THE FEATURE'S SURROUNDING VEGETATION WILL NOT BE DISTURBED AND ARE PROTECTED FROM SEDIMENT AND OTHER POLLUTANTS EXCEPT AT THE PERMITTED LOCATION.

SEALED BY

MATTHEW J. DAVIS
REGISTERED ENGINEER
AGRICULTURE
NO. 127418
STATE OF TENNESSEE
7/29/2025

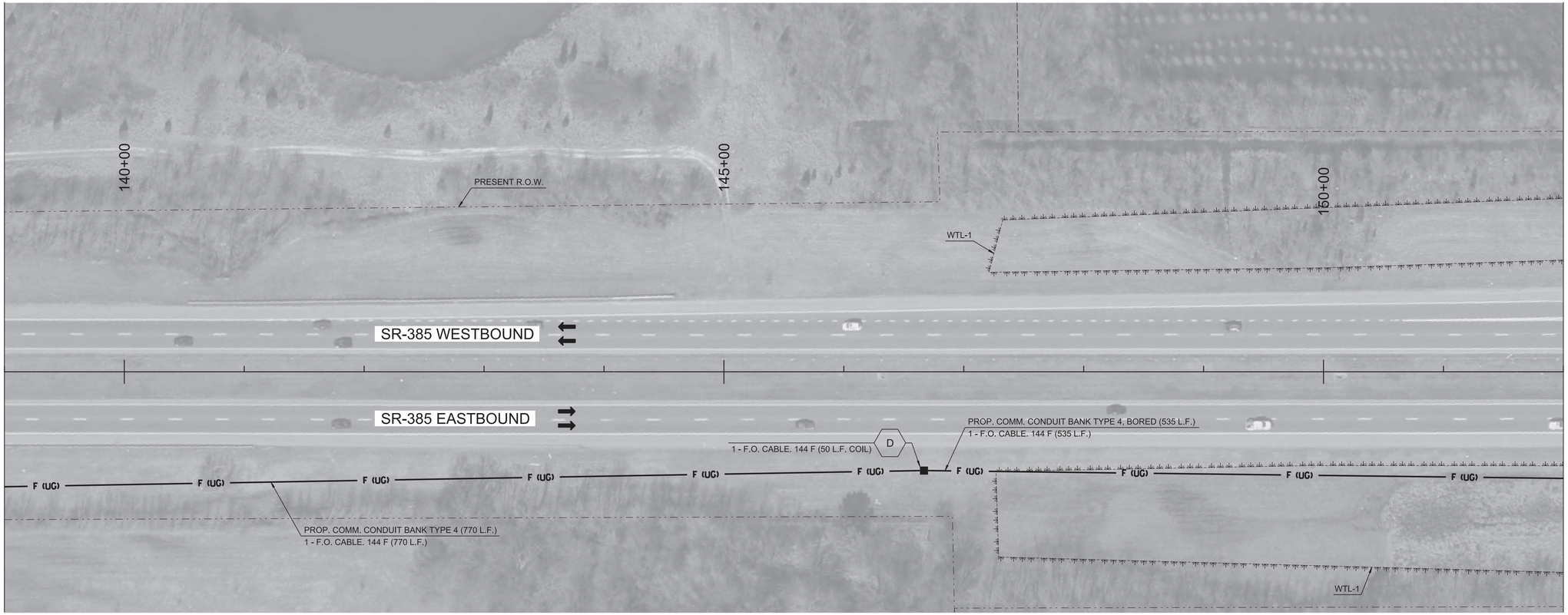
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ITS LAYOUT

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PIN 124759
STA. 126+00 TO 139+00

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TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	8
PS&E	2025	R-NH-385(33)	8



N

NOTES:

1. UTILITY CROSSINGS ON STREAMS AT THE PERMITTED LOCATIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH TDOT STANDARDS AND NO WORK SHALL BE DONE IN FLOWING WATER. THE DISTURBED AREA SHALL BE RESTORED TO EXISTING CONDITIONS.
2. THE CONTRACTOR SHALL USE ANY MEASURES NECESSARY TO ENSURE THAT CONSTRUCTION AND CONSTRUCTION EQUIPMENT WILL NOT ENTER ANY PORTION OF WTL-1 AND THAT THE FEATURE'S SURROUNDING VEGETATION WILL NOT BE DISTURBED AND ARE PROTECTED FROM SEDIMENT AND OTHER POLLUTANTS EXCEPT AT THE PERMITTED LOCATION.
3. HIGH VISIBILITY FENCE (S-F-1) SHALL BE PLACED AROUND ALL NON-IMPACTED SECTIONS OF WATER QUALITY FEATURES (WTL-1) WITHIN 50' OF GROUND DISTURBANCE DUE TO CONSTRUCTION WITHIN THE ROW OR EASEMENTS.
4. WETLAND CROSSING AT PERMITTED LOCATIONS: THE CONTRACTOR SHALL KEEP WETLAND DISTURBANCE TO A MINIMUM AND AS NEEDED FOR CONDUIT AND PULL BOX INSTALLATION. THE DISTURBED AREA SHALL BE RESTORED TO EXISTING CONDITIONS AND COMPACTED CLAY PLUGS SHALL BE USED AT THE ENDS OF THE TRENCHES TO PREVENT DRAINING OF THE WETLAND.

SEALED BY

MATTHEW J. DAVIS
REGISTERED ENGINEER
AGRICULTURE
ENGINEERING
STATE OF TENNESSEE
7/29/2025

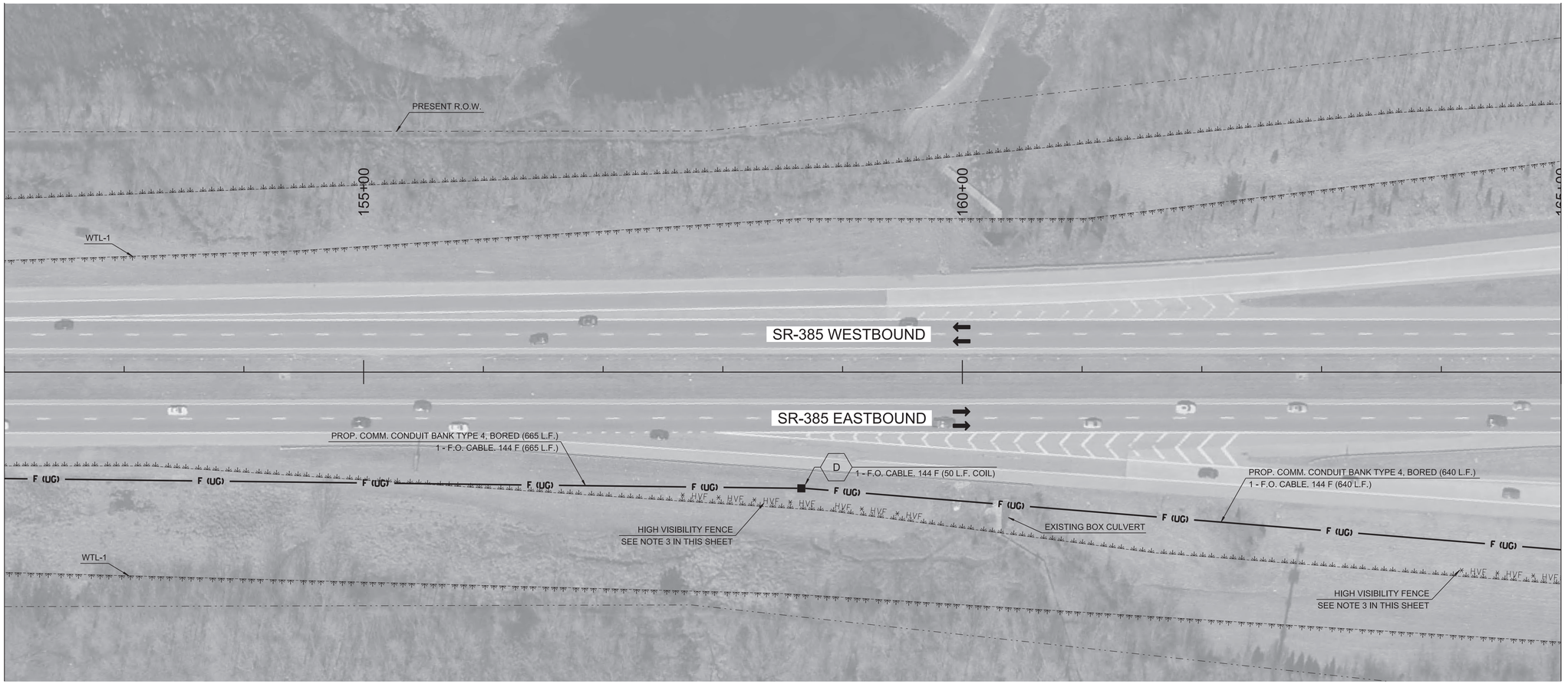
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ITS LAYOUT

SR-385
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STA. 139+00 TO 152+00

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TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	9
PS&E	2025	R-NH-385(33)	9

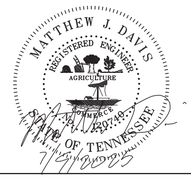


N

NOTES:

1. UTILITY CROSSINGS ON STREAMS AT THE PERMITTED LOCATIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH TDOT STANDARDS AND NO WORK SHALL BE DONE IN FLOWING WATER. THE DISTURBED AREA SHALL BE RESTORED TO EXISTING CONDITIONS.
2. THE CONTRACTOR SHALL USE ANY MEASURES NECESSARY TO ENSURE THAT CONSTRUCTION AND CONSTRUCTION EQUIPMENT WILL NOT ENTER ANY PORTION OF WTL-1 AND THAT THE FEATURE'S SURROUNDING VEGETATION WILL NOT BE DISTURBED AND ARE PROTECTED FROM SEDIMENT AND OTHER POLLUTANTS EXCEPT AT THE PERMITTED LOCATION.
3. HIGH VISIBILITY FENCE (S-F-1) SHALL BE PLACED AROUND ALL NON-IMPACTED SECTIONS OF WATER QUALITY FEATURES (WTL-1) WITHIN 50' OF GROUND DISTURBANCE DUE TO CONSTRUCTION WITHIN THE ROW OR EASEMENTS.
4. WETLAND CROSSING AT PERMITTED LOCATIONS: THE CONTRACTOR SHALL KEEP WETLAND DISTURBANCE TO A MINIMUM AND AS NEEDED FOR CONDUIT AND PULL BOX INSTALLATION. THE DISTURBED AREA SHALL BE RESTORED TO EXISTING CONDITIONS AND COMPACTED CLAY PLUGS SHALL BE USED AT THE ENDS OF THE TRENCHES TO PREVENT DRAINING OF THE WETLAND.

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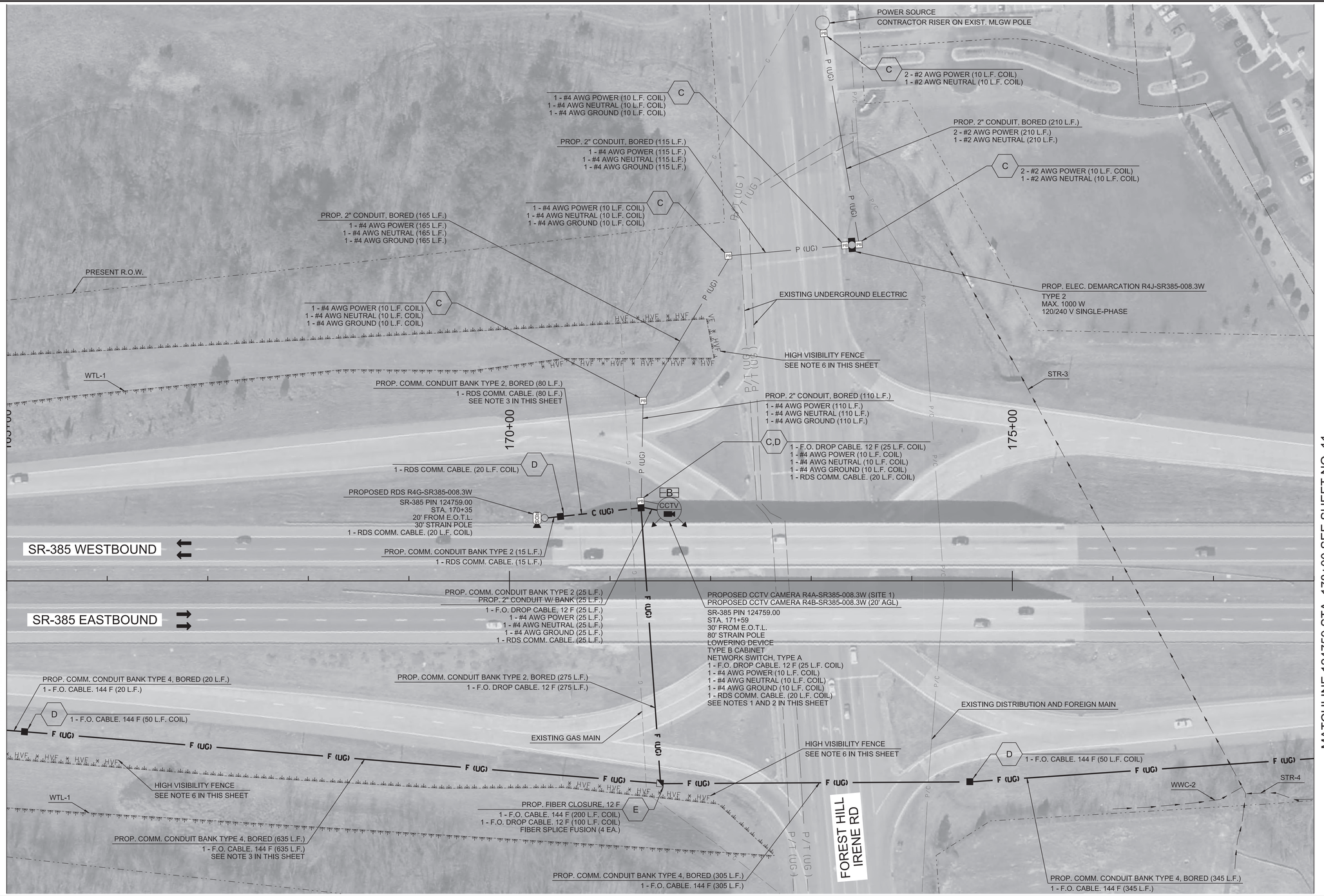
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ITS LAYOUT

SR-385
SCALE 1" = 50'
PIN 124759
STA. 152+00 TO 165+00

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TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	10
PS&E	2025	R-NH-385(33)	10



N

SEALED BY



NOTES:

1. ARRANGEMENT OF DEVICES ON THIS SHEET IS GRAPHICAL. SEE DEVICE ORIENTATION SHEET FOR SPECIFIC ARRANGEMENT OF DEVICES.
2. POLE SHALL NOT BE LOCATED IN DIRECT PATH OF FLOWING WATER FROM OVERHEAD SR-385 BRIDGE DRAIN TO AVOID EROSION AROUND AND UNNECESSARY MOISTURE EXPOSURE TO THE DEVICE SITE.
3. CONTRACTOR TO COORDINATE WITH GAS MAIN OWNER DURING CONSTRUCTION TO ENSURE PROPER VERTICAL SEPARATION IS PROVIDED WHEN INSTALLING CONDUIT.
4. UTILITY CROSSINGS ON STREAMS AT THE PERMITTED LOCATIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH TDOT STANDARDS AND NO WORK SHALL BE DONE IN FLOWING WATER. THE DISTURBED AREA SHALL BE RESTORED TO EXISTING CONDITIONS.
5. THE CONTRACTOR SHALL USE ANY MEASURES NECESSARY TO ENSURE THAT CONSTRUCTION AND CONSTRUCTION EQUIPMENT WILL NOT ENTER ANY PORTION OF WTL-1, STR-3, AND STR-4 AND THAT THE FEATURE'S SURROUNDING VEGETATION WILL NOT BE DISTURBED AND ARE PROTECTED FROM SEDIMENT AND OTHER POLLUTANTS EXCEPT AT THE PERMITTED LOCATION.
6. HIGH VISIBILITY FENCE (S-F-1) SHALL BE PLACED AROUND ALL NON-IMPACTED SECTIONS OF WATER QUALITY FEATURES (WTL-1, STR-3, AND STR-4) WITHIN 50' OF GROUND DISTURBANCE DUE TO CONSTRUCTION WITHIN THE ROW OR EASEMENTS.
7. WETLAND CROSSING AT PERMITTED LOCATIONS: THE CONTRACTOR SHALL KEEP WETLAND DISTURBANCE TO A MINIMUM AND AS NEEDED FOR CONDUIT AND PULL BOX INSTALLATION. THE DISTURBED AREA SHALL BE RESTORED TO EXISTING CONDITIONS AND COMPACTED CLAY PLUGS SHALL BE USED AT THE ENDS OF THE TRENCHES TO PREVENT DRAINING OF THE WETLAND.

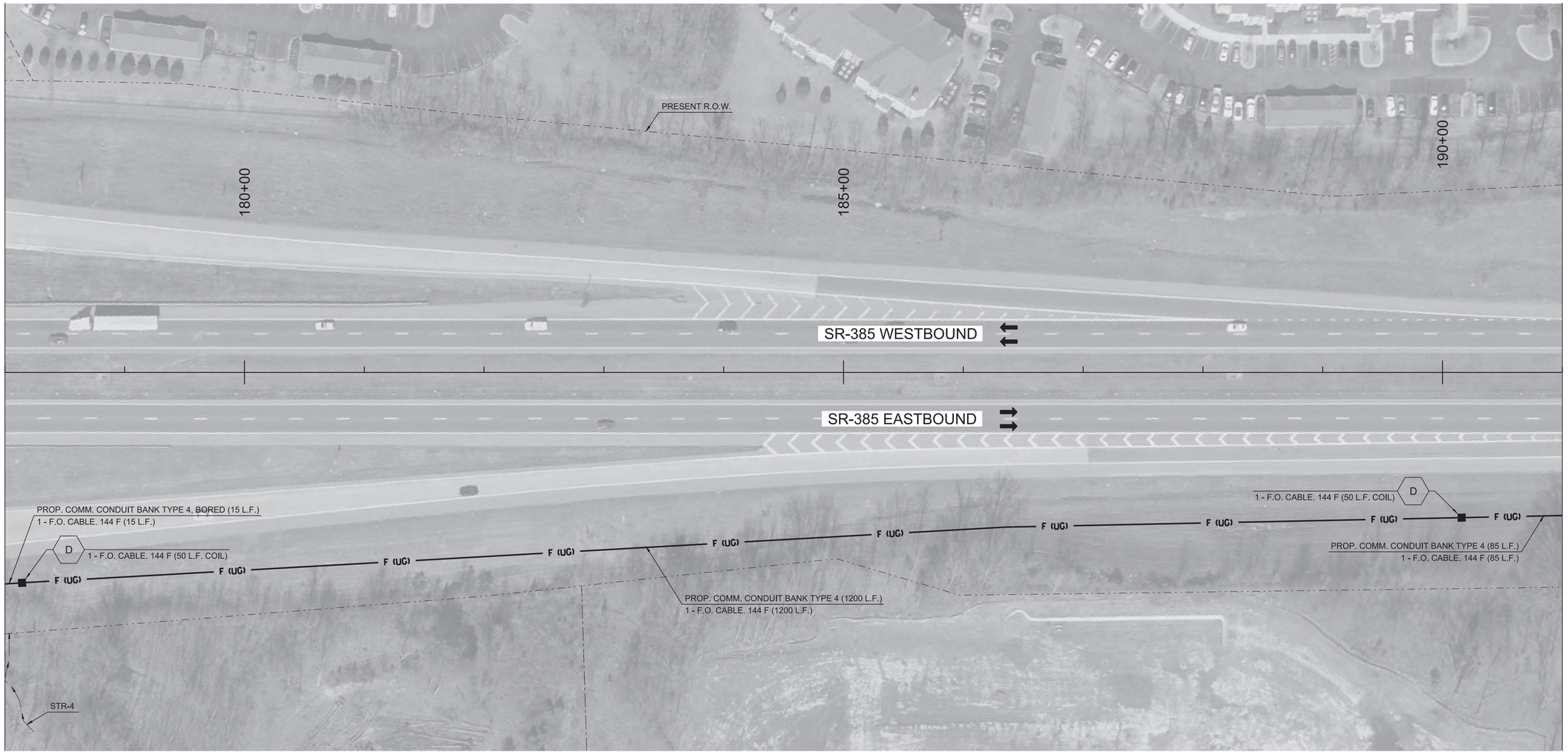
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ITS LAYOUT

SR-385
SCALE 1" = 50'
PIN 124759
STA. 165+00 TO 178+00

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TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	11
PS&E	2025	R-NH-385(33)	11



N

NOTES:

1. UTILITY CROSSINGS ON STREAMS AT THE PERMITTED LOCATIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH TDOT STANDARDS AND NO WORK SHALL BE DONE IN FLOWING WATER. THE DISTURBED AREA SHALL BE RESTORED TO EXISTING CONDITIONS.
2. THE CONTRACTOR SHALL USE ANY MEASURES NECESSARY TO ENSURE THAT CONSTRUCTION AND CONSTRUCTION EQUIPMENT WILL NOT ENTER ANY PORTION OF STR-4 AND THAT THE FEATURE'S SURROUNDING VEGETATION WILL NOT BE DISTURBED AND ARE PROTECTED FROM SEDIMENT AND OTHER POLLUTANTS EXCEPT AT THE PERMITTED LOCATION.
3. HIGH VISIBILITY FENCE (S-F-1) SHALL BE PLACED AROUND ALL NON-IMPACTED SECTIONS OF WATER QUALITY FEATURES (STR-4) WITHIN 50' OF GROUND DISTURBANCE DUE TO CONSTRUCTION WITHIN THE ROW OR EASEMENTS.

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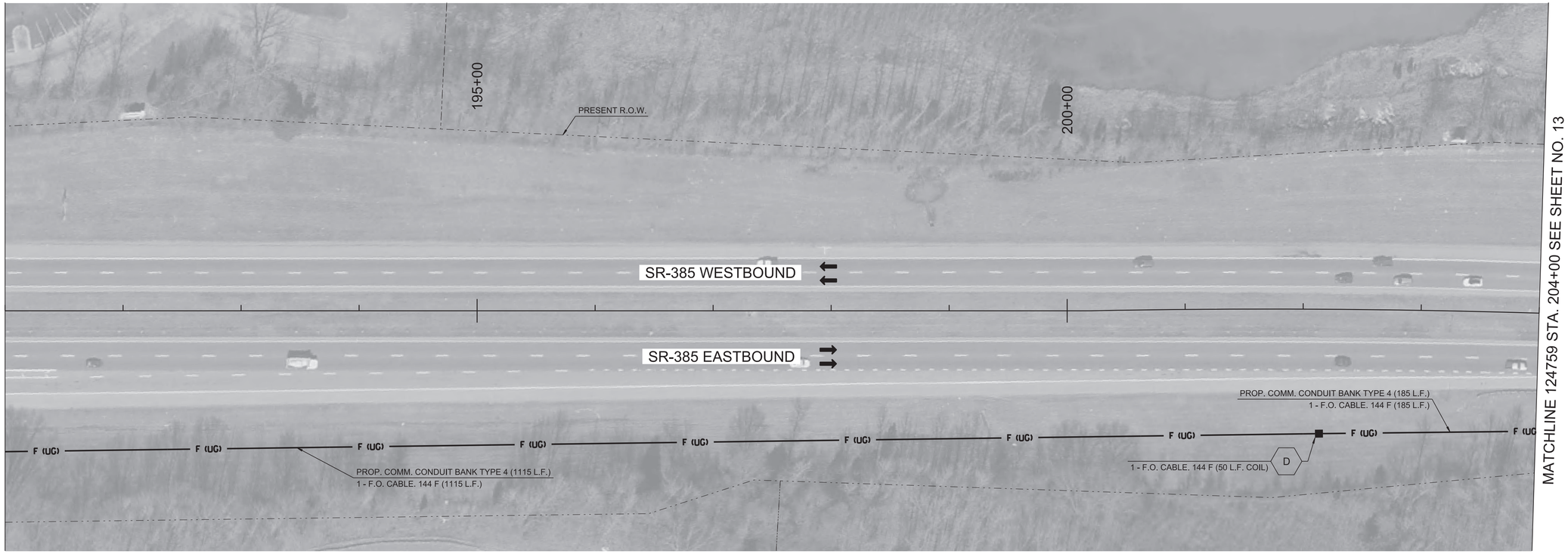
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ITS LAYOUT

SR-385
SCALE 1" = 50'
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STA. 178+00 TO 191+00

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TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	12
PS&E	2025	R-NH-385(33)	12



N

SEALED BY

MATTHEW J. DAVIS
REGISTERED ENGINEER
AGRICULTURE
POMONA
120748
STATE OF TENNESSEE
7/9/2025

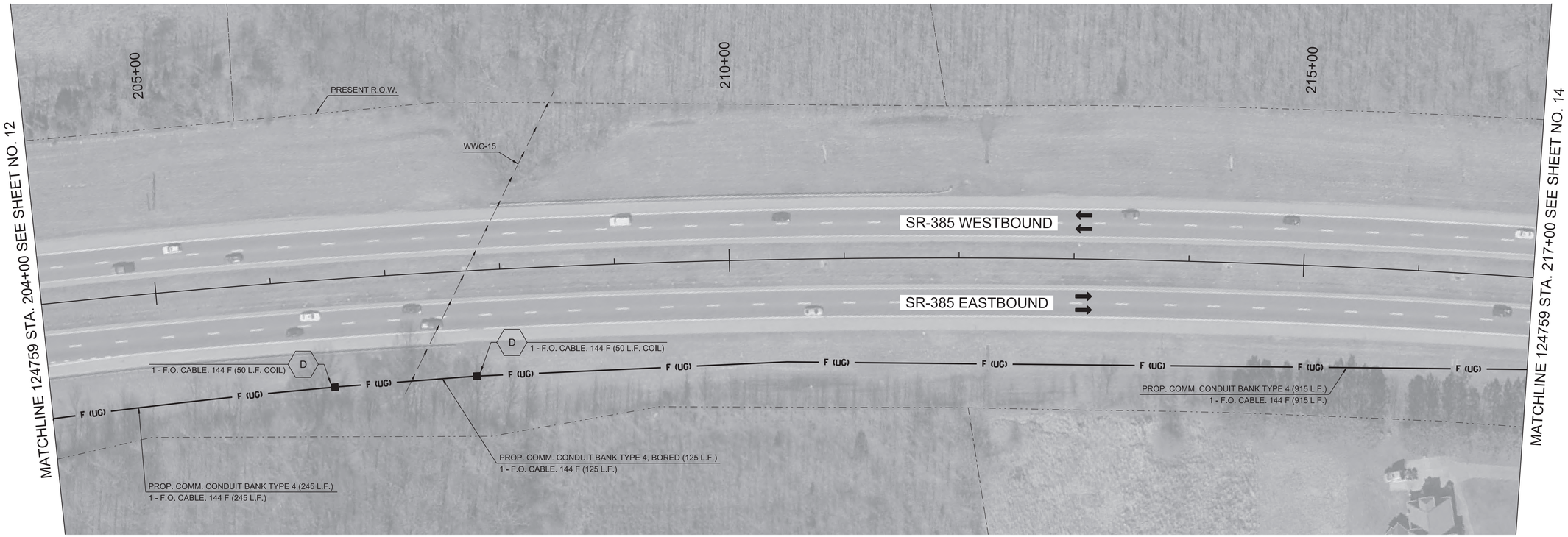
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

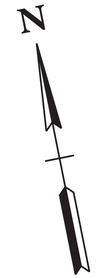
ITS LAYOUT

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STA. 191+00 TO 204+00

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TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	13
PS&E	2025	R-NH-385(33)	13





NOTES:

1. UTILITY CROSSINGS ON STREAMS AT THE PERMITTED LOCATIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH TDOT STANDARDS AND NO WORK SHALL BE DONE IN FLOWING WATER. THE DISTURBED AREA SHALL BE RESTORED TO EXISTING CONDITIONS.

2. THE CONTRACTOR SHALL USE ANY MEASURES NECESSARY TO ENSURE THAT CONSTRUCTION AND CONSTRUCTION EQUIPMENT WILL NOT ENTER ANY PORTION OF THE STREAM OR WETLAND AND THAT THE FEATURE'S SURROUNDING VEGETATION WILL NOT BE DISTURBED AND ARE PROTECTED FROM SEDIMENT AND OTHER POLLUTANTS EXCEPT AT THE PERMITTED LOCATION.

SEALED BY



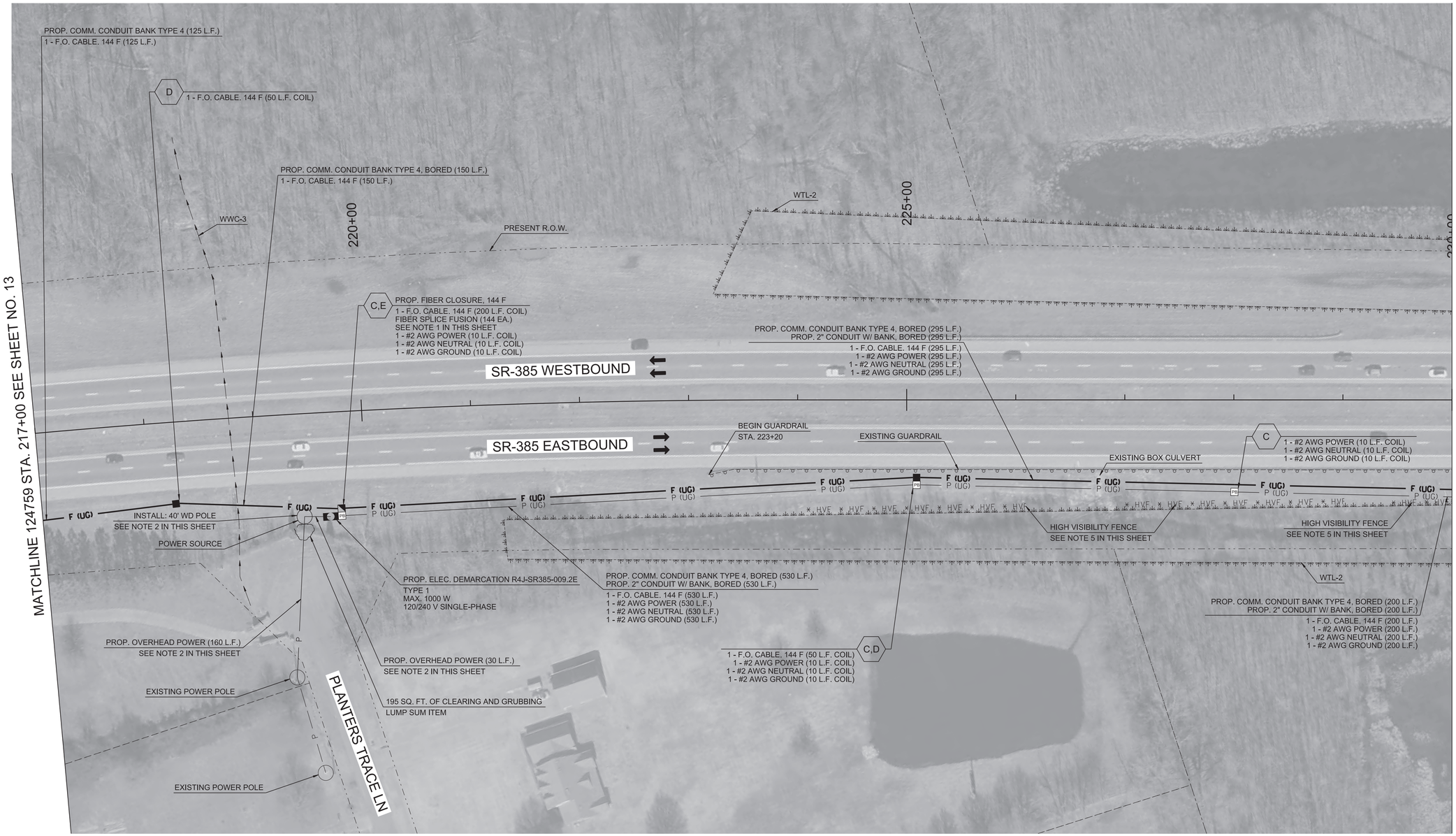
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ITS LAYOUT

SR-385
SCALE 1" = 50'
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STA. 204+00 TO 217+00

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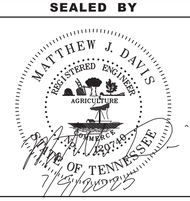
TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	14
PS&E	2025	R-NH-385(33)	14



NOTES:

1. REEL-TO-REEL SPLICE ANTICIPATED AT TYPE E PULL BOX.
2. ITEM TO BE PROVIDED AND INSTALLED BY MLGW. TO BE PAID UNDER ELECTRICAL CONNECTION PAY ITEM (725-20.71)
3. UTILITY CROSSINGS ON STREAMS AT THE PERMITTED LOCATIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH TDOT STANDARDS AND NO WORK SHALL BE DONE IN FLOWING WATER. THE DISTURBED AREA SHALL BE RESTORED TO EXISTING CONDITIONS.
4. THE CONTRACTOR SHALL USE ANY MEASURES NECESSARY TO ENSURE THAT CONSTRUCTION AND CONSTRUCTION EQUIPMENT WILL NOT ENTER ANY PORTION OF WTL-2 AND THAT THE FEATURE'S SURROUNDING VEGETATION WILL NOT BE DISTURBED AND ARE PROTECTED FROM SEDIMENT AND OTHER POLLUTANTS EXCEPT AT THE PERMITTED LOCATION.
5. HIGH VISIBILITY FENCE (S-F-1) SHALL BE PLACED AROUND ALL NON-IMPACTED SECTIONS OF WATER QUALITY FEATURES (WTL-2) WITHIN 50' OF GROUND DISTURBANCE DUE TO CONSTRUCTION WITHIN THE ROW OR EASEMENTS.
6. WETLAND CROSSING AT PERMITTED LOCATIONS: THE CONTRACTOR SHALL KEEP WETLAND DISTURBANCE TO A MINIMUM AND AS NEEDED FOR CONDUIT AND PULL BOX INSTALLATION. THE DISTURBED AREA SHALL BE RESTORED TO EXISTING CONDITIONS AND COMPACTED CLAY PLUGS SHALL BE USED AT THE ENDS OF THE TRENCHES TO PREVENT DRAINING OF THE WETLAND.

SEALED BY



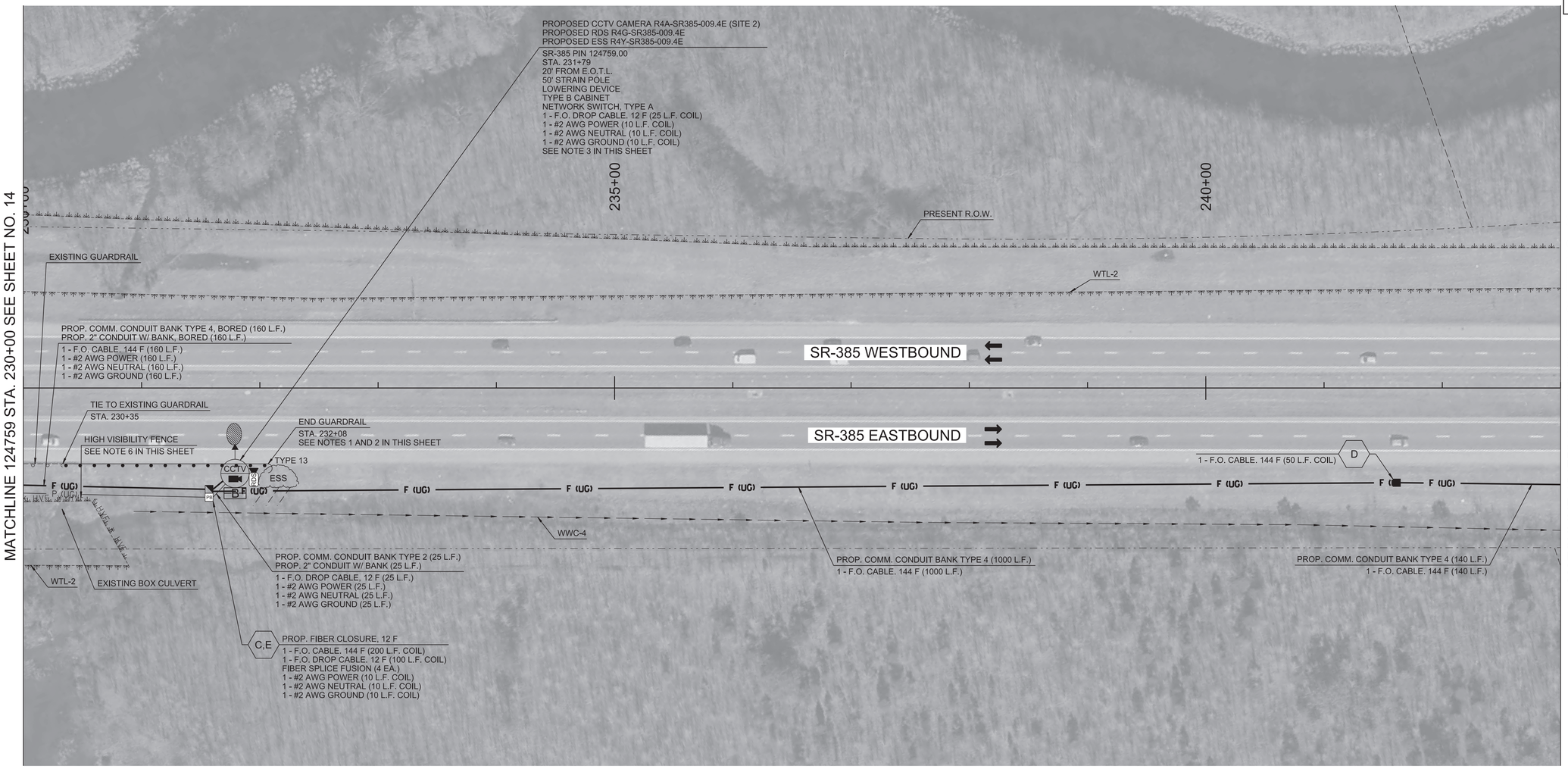
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ITS LAYOUT

SR-385
SCALE 1" = 50'
PIN 124759
STA. 217+00 TO 230+00

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TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	15
PS&E	2025	R-NH-385(33)	15



MATCHLINE 124759 STA. 230+00 SEE SHEET NO. 14

MATCHLINE 124759 STA. 243+00 SEE SHEET NO. 16

NOTES:

1. CONTRACTOR TO CONNECT PROPOSED GUARDRAIL TO EXISTING.
2. CONTRACTOR TO REPAIR EMBANKMENT WASH OUT NEAR END OF EXISTING GUARDRAIL WHEN ADDING GUARDRAIL EXTENSION. THE MATERIAL AND LABOR REQUIRED FOR THIS WORK SHALL BE PAID FOR UNDER PAY ITEM 706-01.
3. ARRANGEMENT OF DEVICES ON THIS SHEET IS GRAPHICAL. SEE DEVICE ORIENTATION SHEET FOR SPECIFIC ARRANGEMENT OF DEVICES.
4. UTILITY CROSSINGS ON STREAMS AT THE PERMITTED LOCATIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH TDOT STANDARDS AND NO WORK SHALL BE DONE IN FLOWING WATER. THE DISTURBED AREA SHALL BE RESTORED TO EXISTING CONDITIONS.
5. THE CONTRACTOR SHALL USE ANY MEASURES NECESSARY TO ENSURE THAT CONSTRUCTION AND CONSTRUCTION EQUIPMENT WILL NOT ENTER ANY PORTION OF WTL-2 AND THAT THE FEATURE'S SURROUNDING VEGETATION WILL NOT BE DISTURBED AND ARE PROTECTED FROM SEDIMENT AND OTHER POLLUTANTS EXCEPT AT THE PERMITTED LOCATION.
6. HIGH VISIBILITY FENCE (S-F-1) SHALL BE PLACED AROUND ALL NON-IMPACTED SECTIONS OF WATER QUALITY FEATURES (WTL-2) WITHIN 50' OF GROUND DISTURBANCE DUE TO CONSTRUCTION WITHIN THE ROW OR EASEMENTS.
7. WETLAND CROSSING AT PERMITTED LOCATIONS: THE CONTRACTOR SHALL KEEP WETLAND DISTURBANCE TO A MINIMUM AND AS NEEDED FOR CONDUIT AND PULL BOX INSTALLATION. THE DISTURBED AREA SHALL BE RESTORED TO EXISTING CONDITIONS AND COMPACTED CLAY PLUGS SHALL BE USED AT THE ENDS OF THE TRENCHES TO PREVENT DRAINING OF THE WETLAND.

SEALED BY



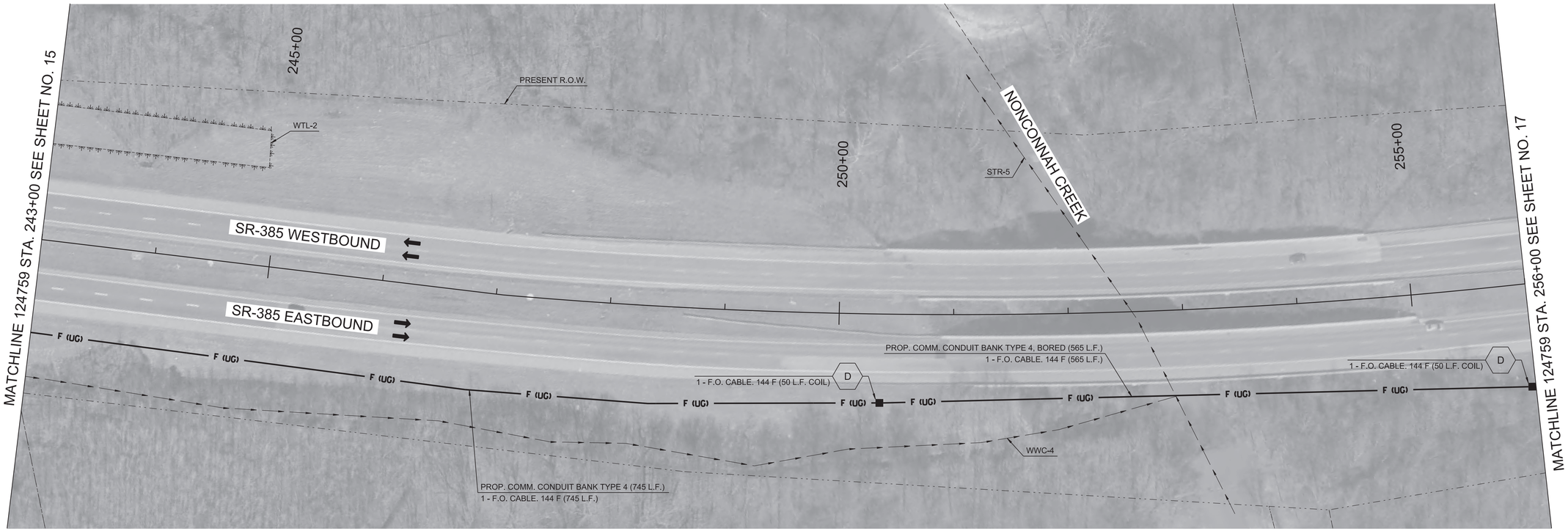
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ITS LAYOUT

SR-385
SCALE 1" = 50'
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STA. 230+00 TO 243+00

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TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	16
PS&E	2025	R-NH-385(33)	16



N

NOTES:

1. UTILITY CROSSINGS ON STREAMS AT THE PERMITTED LOCATIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH TDOT STANDARDS AND NO WORK SHALL BE DONE IN FLOWING WATER. THE DISTURBED AREA SHALL BE RESTORED TO EXISTING CONDITIONS.
2. THE CONTRACTOR SHALL USE ANY MEASURES NECESSARY TO ENSURE THAT CONSTRUCTION AND CONSTRUCTION EQUIPMENT WILL NOT ENTER ANY PORTION OF WTL-2 AND STR-5 AND THAT THE FEATURE'S SURROUNDING VEGETATION WILL NOT BE DISTURBED AND ARE PROTECTED FROM SEDIMENT AND OTHER POLLUTANTS EXCEPT AT THE PERMITTED LOCATION.
3. HIGH VISIBILITY FENCE (S-F-1) SHALL BE PLACED AROUND ALL NON-IMPACTED SECTIONS OF WATER QUALITY FEATURES (WTL-2 AND STR-5) WITHIN 50' OF GROUND DISTURBANCE DUE TO CONSTRUCTION WITHIN THE ROW OR EASEMENTS.

SEALED BY

MATTHEW J. DAVIS
REGISTERED ENGINEER
AGRICULTURE
No. 127495
STATE OF TENNESSEE
7/9/2025

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ITS LAYOUT

SR-385
SCALE 1" = 50'
PIN 124759
STA. 243+00 TO 256+00

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TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	17
PS&E	2025	R-NH-385(33)	17



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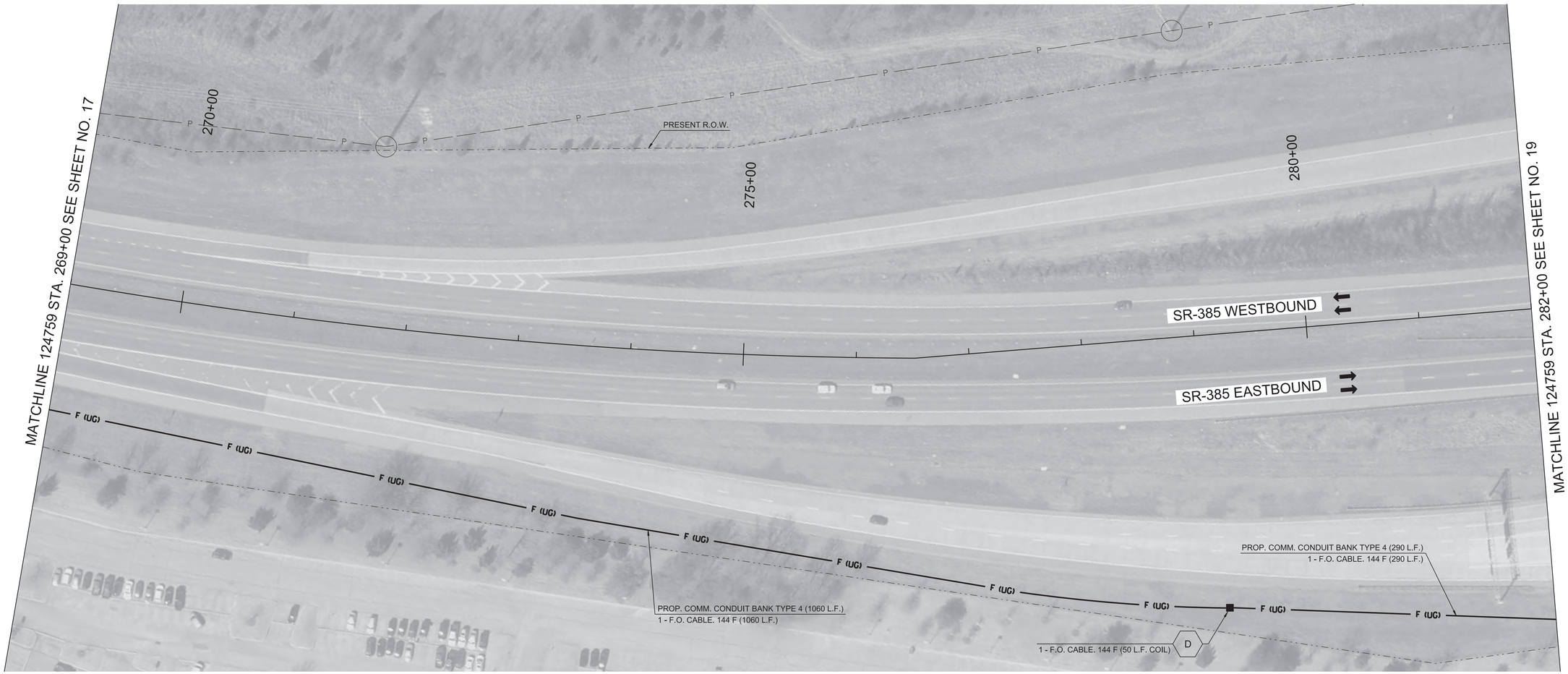
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ITS LAYOUT

SR-385
SCALE 1" = 50'
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STA. 256+00 TO 269+00

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TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	18
PS&E	2025	R-NH-385(33)	18



N

SEALED BY

MATTHEW J. DAVIS
REGISTERED ENGINEER
AGRICULTURE
PERFORMANCE
120748
STATE OF TENNESSEE
7/31/2025

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ITS LAYOUT

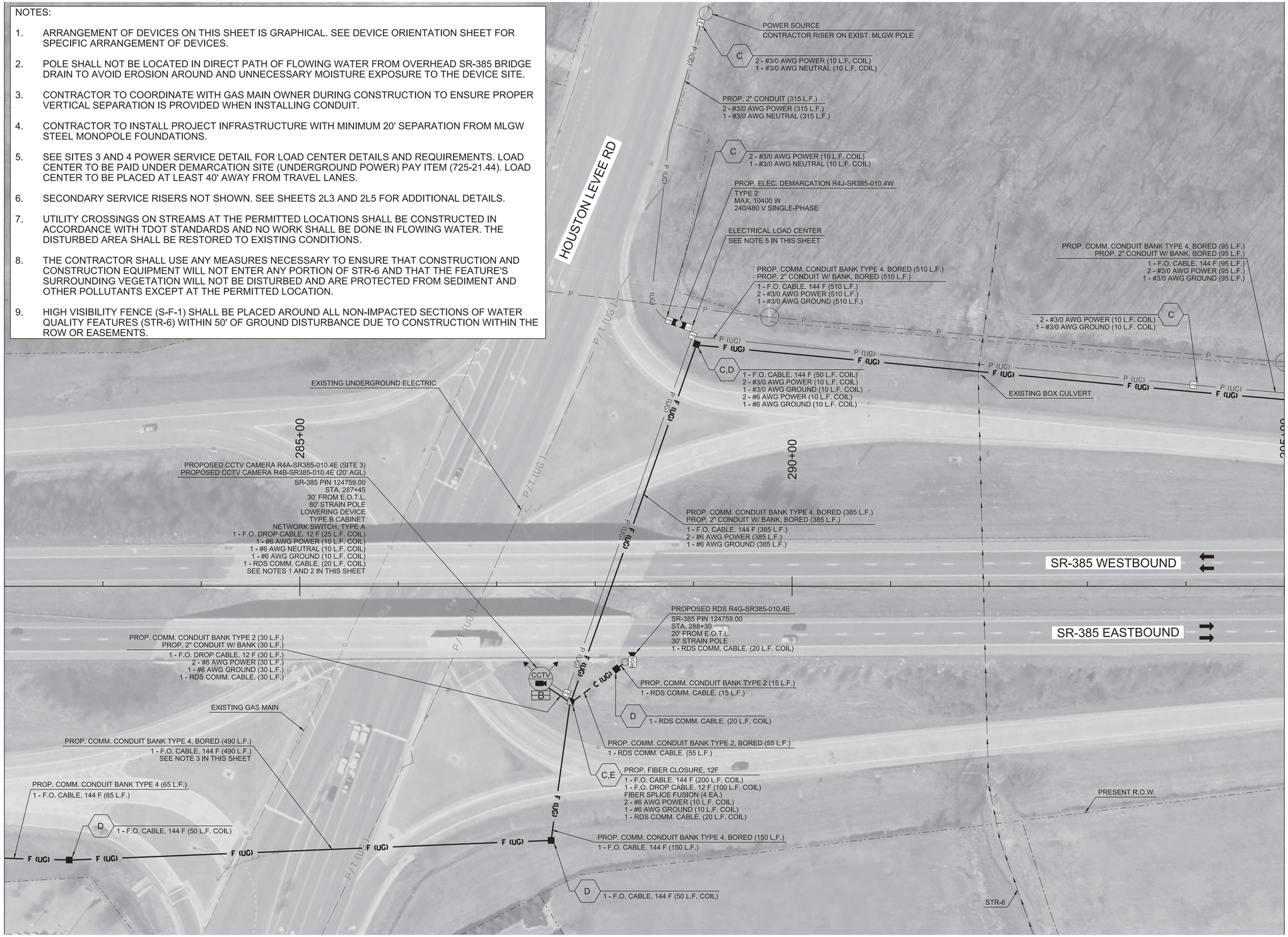
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STA. 269+00 TO 282+00

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NOTES:

1. ARRANGEMENT OF DEVICES ON THIS SHEET IS GRAPHICAL. SEE DEVICE ORIENTATION SHEET FOR SPECIFIC ARRANGEMENT OF DEVICES.
2. POLE SHALL NOT BE LOCATED IN DIRECT PATH OF FLOWING WATER FROM OVERHEAD SR-385 BRIDGE DRAIN TO AVOID EROSION AROUND AND UNNECESSARY MOISTURE EXPOSURE TO THE DEVICE SITE.
3. CONTRACTOR TO COORDINATE WITH GAS MAIN OWNER DURING CONSTRUCTION TO ENSURE PROPER VERTICAL SEPARATION IS PROVIDED WHEN INSTALLING CONDUIT.
4. CONTRACTOR TO INSTALL PROJECT INFRASTRUCTURE WITH MINIMUM 20' SEPARATION FROM MLGW STEEL MONOPOLE FOUNDATIONS.
5. SEE SITES 3 AND 4 POWER SERVICE DETAIL FOR LOAD CENTER DETAILS AND REQUIREMENTS. LOAD CENTER TO BE PAID UNDER DEMARCATION SITE (UNDERGROUND POWER) PAY ITEM (725-21.44). LOAD CENTER TO BE PLACED AT LEAST 40' AWAY FROM TRAVEL LANES.
6. SECONDARY SERVICE RISERS NOT SHOWN. SEE SHEETS 2L3 AND 2L5 FOR ADDITIONAL DETAILS.
7. UTILITY CROSSINGS ON STREAMS AT THE PERMITTED LOCATIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH TDOT STANDARDS AND NO WORK SHALL BE DONE IN FLOWING WATER. THE DISTURBED AREA SHALL BE RESTORED TO EXISTING CONDITIONS.
8. THE CONTRACTOR SHALL USE ANY MEASURES NECESSARY TO ENSURE THAT CONSTRUCTION AND CONSTRUCTION EQUIPMENT WILL NOT ENTER ANY PORTION OF STR-6 AND THAT THE FEATURE'S SURROUNDING VEGETATION WILL NOT BE DISTURBED AND ARE PROTECTED FROM SEDIMENT AND OTHER POLLUTANTS EXCEPT AT THE PERMITTED LOCATION.
9. HIGH VISIBILITY FENCE (S-F-1) SHALL BE PLACED AROUND ALL NON-IMPACTED SECTIONS OF WATER QUALITY FEATURES (STR-6) WITHIN 50' OF GROUND DISTURBANCE DUE TO CONSTRUCTION WITHIN THE ROW OR EASEMENTS.

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	19
PS&E	2025	R-NH-385(33)	19



N

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MATTHEW J. DAVIS
REGISTERED ENGINEER
AGRICULTURE
STATE OF TENNESSEE
7/9/2025

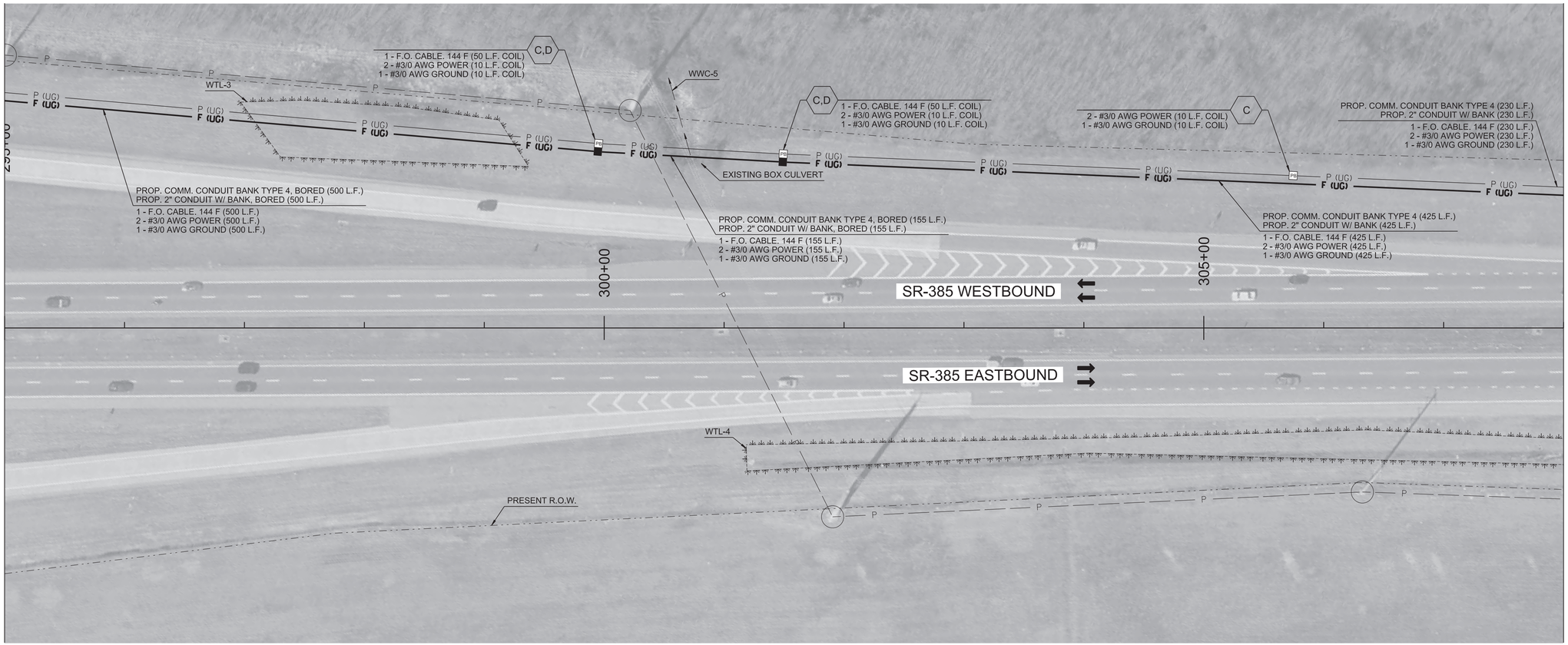
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ITS LAYOUT

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SCALE 1" = 50'
PIN 124759
STA. 282+00 TO 295+00

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TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	20
PS&E	2025	R-NH-385(33)	20



N

NOTES:

1. CONTRACTOR TO INSTALL PROJECT INFRASTRUCTURE WITH MINIMUM 20' SEPARATION FROM MLGW STEEL MONOPOLE FOUNDATIONS.
2. UTILITY CROSSINGS ON STREAMS AT THE PERMITTED LOCATIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH TDOT STANDARDS AND NO WORK SHALL BE DONE IN FLOWING WATER. THE DISTURBED AREA SHALL BE RESTORED TO EXISTING CONDITIONS.
3. THE CONTRACTOR SHALL USE ANY MEASURES NECESSARY TO ENSURE THAT CONSTRUCTION AND CONSTRUCTION EQUIPMENT WILL NOT ENTER ANY PORTION OF WTL-3 AND WTL-4 AND THAT THE FEATURE'S SURROUNDING VEGETATION WILL NOT BE DISTURBED AND ARE PROTECTED FROM SEDIMENT AND OTHER POLLUTANTS EXCEPT AT THE PERMITTED LOCATION.
4. HIGH VISIBILITY FENCE (S-F-1) SHALL BE PLACED AROUND ALL NON-IMPACTED SECTIONS OF WATER QUALITY FEATURES (WTL-3 AND WTL-4) WITHIN 50' OF GROUND DISTURBANCE DUE TO CONSTRUCTION WITHIN THE ROW OR EASEMENTS.
5. WETLAND CROSSING AT PERMITTED LOCATIONS: THE CONTRACTOR SHALL KEEP WETLAND DISTURBANCE TO A MINIMUM AND AS NEEDED FOR CONDUIT AND PULL BOX INSTALLATION. THE DISTURBED AREA SHALL BE RESTORED TO EXISTING CONDITIONS AND COMPACTED CLAY PLUGS SHALL BE USED AT THE ENDS OF THE TRENCHES TO PREVENT DRAINING OF THE WETLAND.

SEALED BY

MATTHEW J. DAVIS
REGISTERED ENGINEER
AGRICULTURE
STATE OF TENNESSEE
7/9/2025

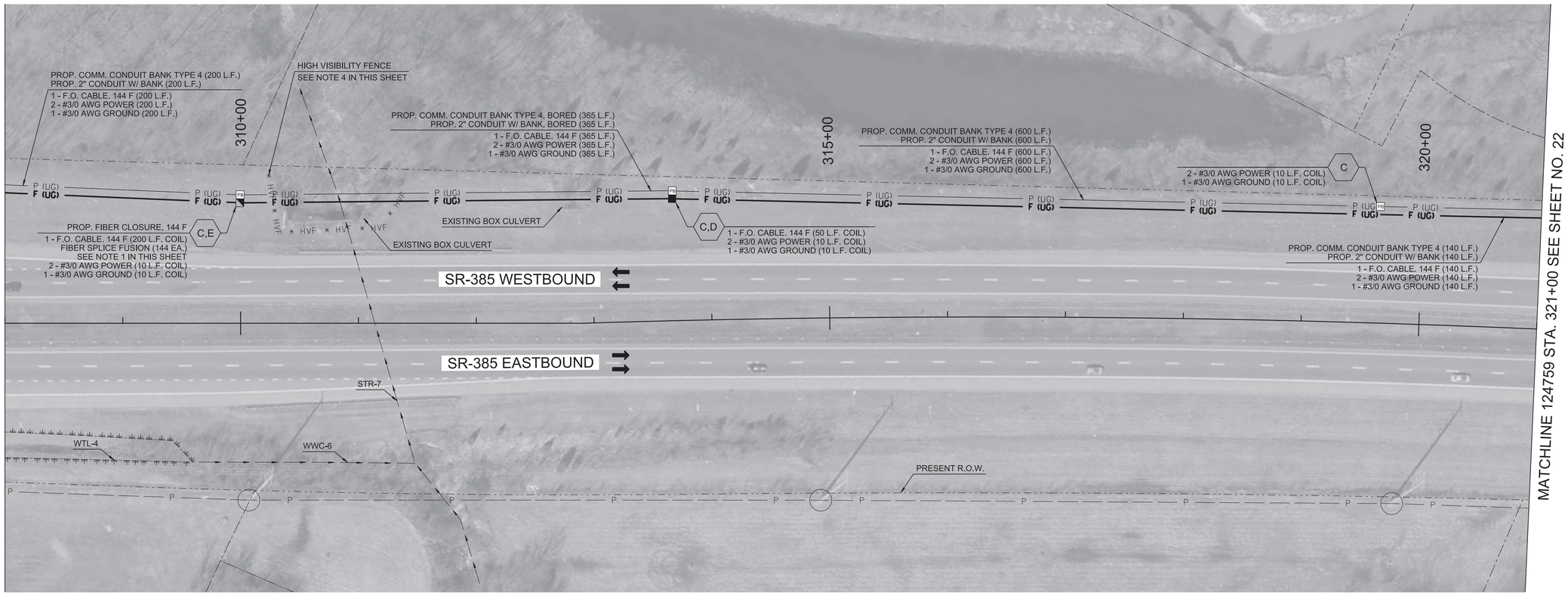
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ITS LAYOUT

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TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	21
PS&E	2025	R-NH-385(33)	21



NOTES:

1. REEL-TO-REEL SPLICE ANTICIPATED AT TYPE E PULL BOX.
2. UTILITY CROSSINGS ON STREAMS AT THE PERMITTED LOCATIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH TDOT STANDARDS AND NO WORK SHALL BE DONE IN FLOWING WATER. THE DISTURBED AREA SHALL BE RESTORED TO EXISTING CONDITIONS.
3. THE CONTRACTOR SHALL USE ANY MEASURES NECESSARY TO ENSURE THAT CONSTRUCTION AND CONSTRUCTION EQUIPMENT WILL NOT ENTER ANY PORTION OF STR-7 AND WTL-4 AND THAT THE FEATURE'S SURROUNDING VEGETATION WILL NOT BE DISTURBED AND ARE PROTECTED FROM SEDIMENT AND OTHER POLLUTANTS EXCEPT AT THE PERMITTED LOCATION.
4. HIGH VISIBILITY FENCE (S-F-1) SHALL BE PLACED AROUND ALL NON-IMPACTED SECTIONS OF WATER QUALITY FEATURES (STR-7 AND WTL-4) WITHIN 50' OF GROUND DISTURBANCE DUE TO CONSTRUCTION WITHIN THE ROW OR EASEMENTS.

SEALED BY

MATTHEW J. DAVIS
REGISTERED ENGINEER
AGRICULTURE
ENGINEERING
STATE OF TENNESSEE
7/9/2025

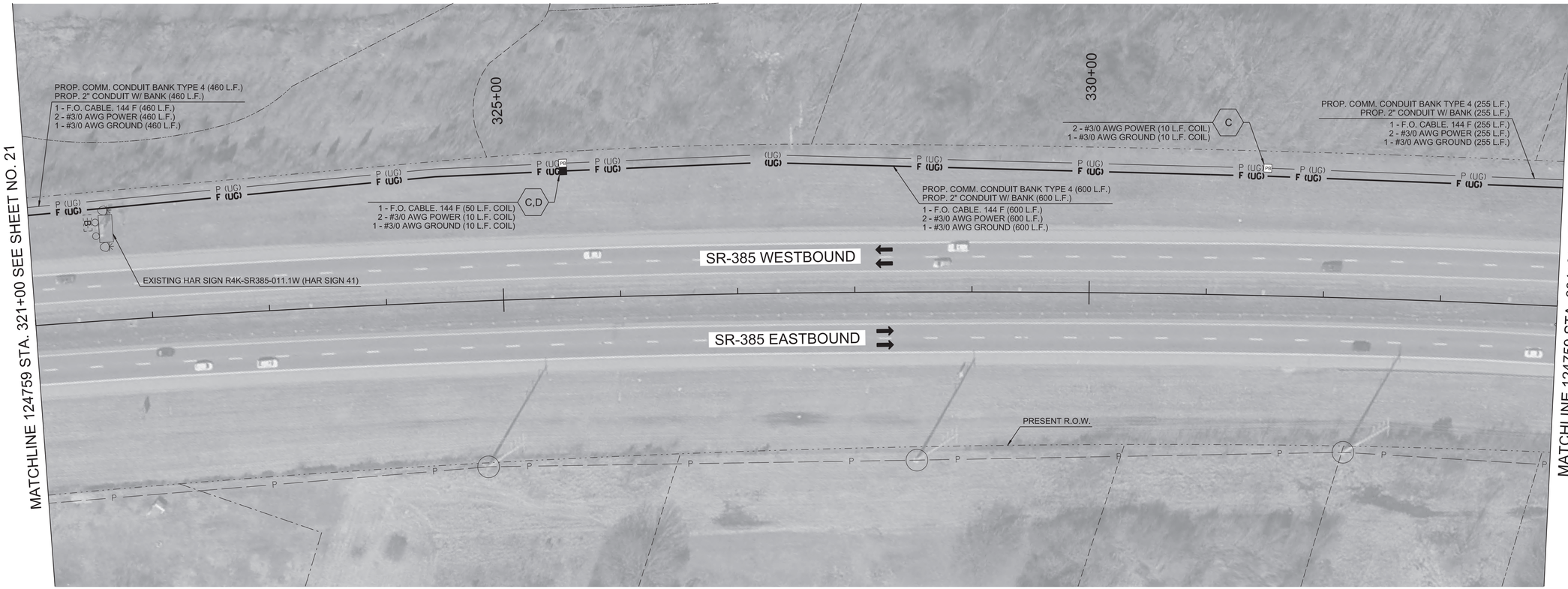
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ITS LAYOUT

SR-385
SCALE 1" = 50'
PIN 124759
STA. 308+00 TO 321+00

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TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	22
PS&E	2025	R-NH-385(33)	22





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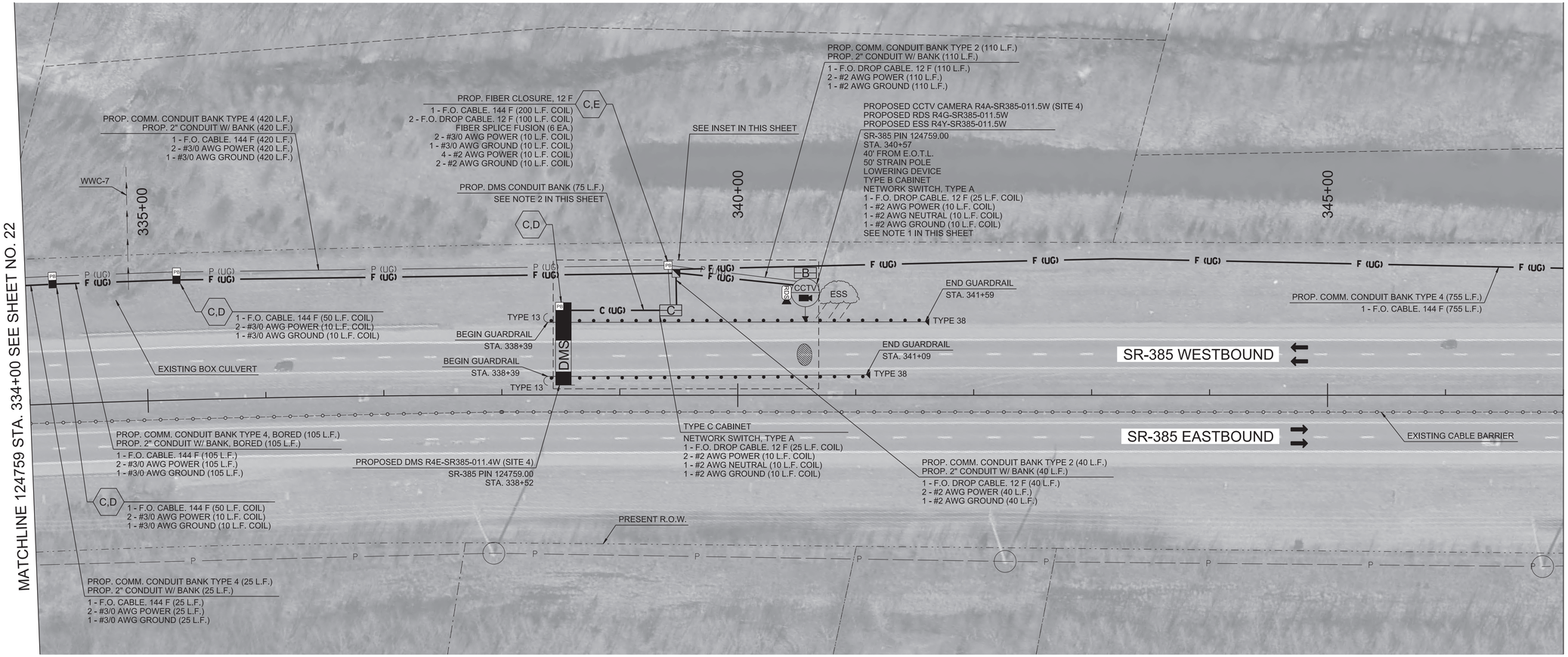
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

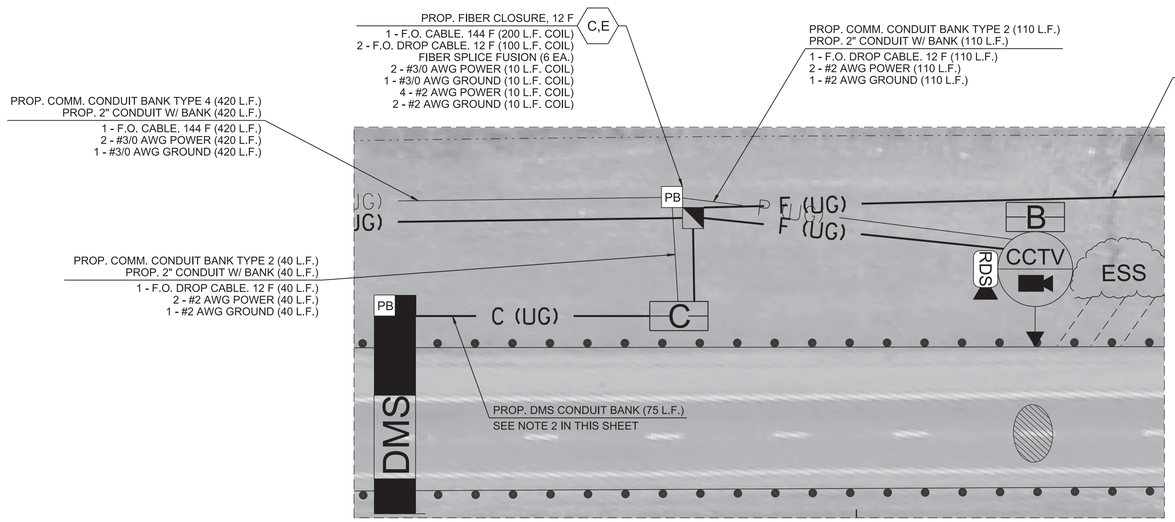
ITS
LAYOUT

SR-385
SCALE 1" = 50'
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STA. 321+00 TO 334+00

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TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	23
PS&E	2025	R-NH-385(33)	23





INSET

NOTES:

1. ARRANGEMENT OF DEVICES ON THIS SHEET IS GRAPHICAL. SEE DEVICE ORIENTATION SHEET FOR SPECIFIC ARRANGEMENT OF DEVICES.
2. DMS COMMUNICATION AND POWER CABLES TO BE PAID FOR AS PART OF PAY ITEM 725-21.02.
3. SECONDARY SERVICE RISERS NOT SHOWN. SEE SHEETS 2L3 AND 2L5 FOR ADDITIONAL DETAILS.
4. UTILITY CROSSINGS ON STREAMS AT THE PERMITTED LOCATIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH TDOT STANDARDS AND NO WORK SHALL BE DONE IN FLOWING WATER. THE DISTURBED AREA SHALL BE RESTORED TO EXISTING CONDITIONS.
5. THE CONTRACTOR SHALL USE ANY MEASURES NECESSARY TO ENSURE THAT CONSTRUCTION AND CONSTRUCTION EQUIPMENT WILL NOT ENTER ANY PORTION OF THE STREAM OR WETLAND AND THAT THE FEATURE'S SURROUNDING VEGETATION WILL NOT BE DISTURBED AND ARE PROTECTED FROM SEDIMENT AND OTHER POLLUTANTS EXCEPT AT THE PERMITTED LOCATION.

SEALED BY



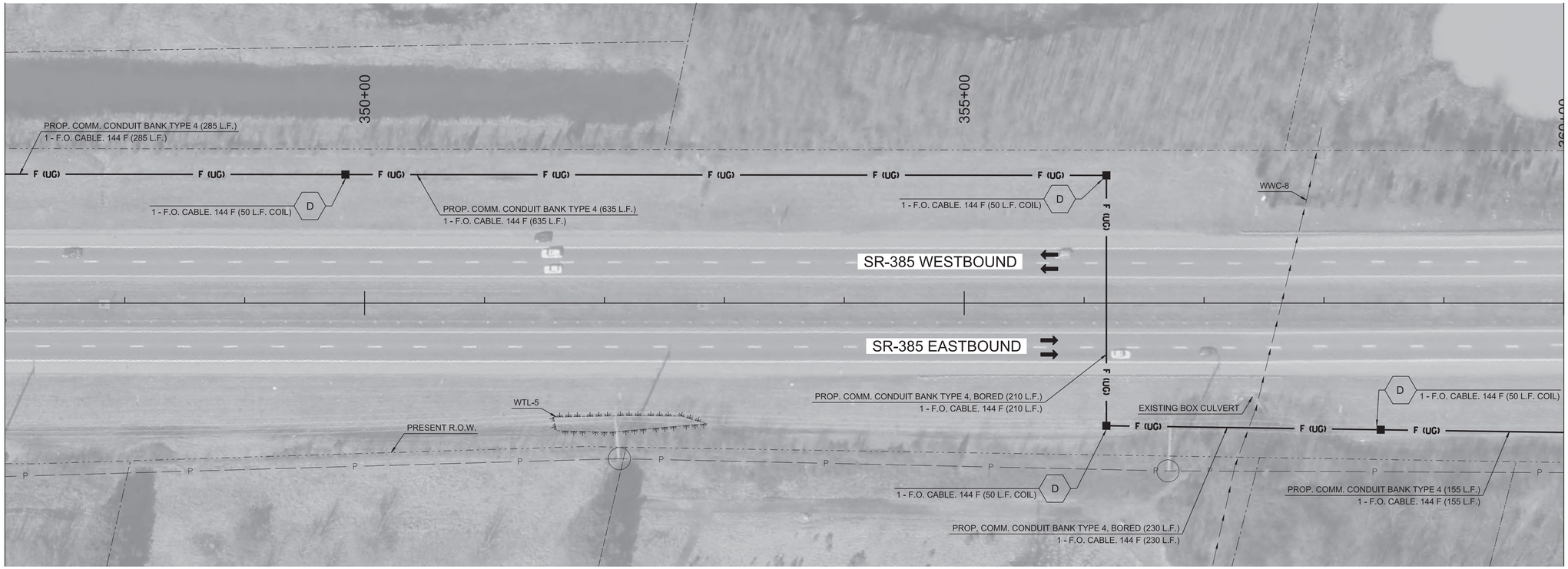
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ITS LAYOUT

SR-385
SCALE 1" = 50'
PIN 124759
STA. 334+00 TO 347+00

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TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	24
PS&E	2025	R-NH-385(33)	24





NOTES:

1. CONTRACTOR TO INSTALL PROJECT INFRASTRUCTURE WITH MINIMUM 20' SEPARATION FROM MLGW STEEL MONOPOLE FOUNDATIONS.
2. UTILITY CROSSINGS ON STREAMS AT THE PERMITTED LOCATIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH TDOT STANDARDS AND NO WORK SHALL BE DONE IN FLOWING WATER. THE DISTURBED AREA SHALL BE RESTORED TO EXISTING CONDITIONS.
3. THE CONTRACTOR SHALL USE ANY MEASURES NECESSARY TO ENSURE THAT CONSTRUCTION AND CONSTRUCTION EQUIPMENT WILL NOT ENTER ANY PORTION OF WTL-5 AND THAT THE FEATURE'S SURROUNDING VEGETATION WILL NOT BE DISTURBED AND ARE PROTECTED FROM SEDIMENT AND OTHER POLLUTANTS EXCEPT AT THE PERMITTED LOCATION.

SEALED BY



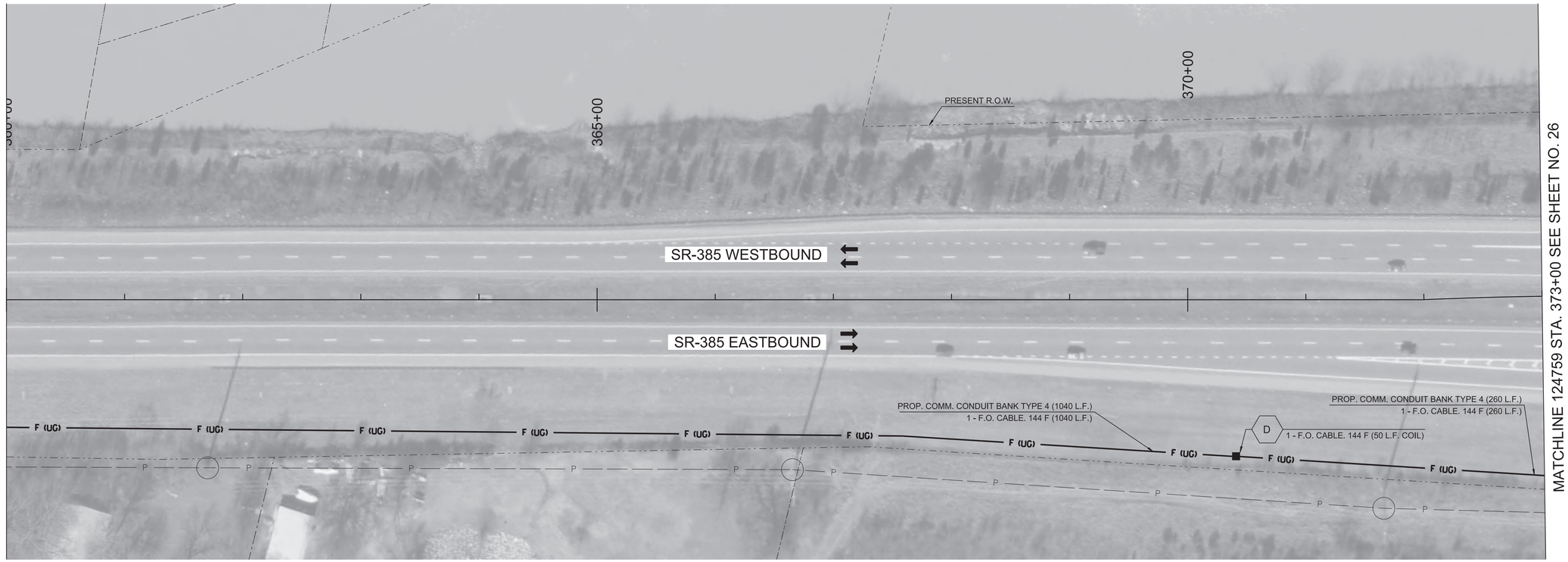
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ITS LAYOUT

SR-385
SCALE 1" = 50'
PIN 124759
STA. 347+00 TO 360+00

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TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	25
PS&E	2025	R-NH-385(33)	25



N

NOTE:

1. CONTRACTOR TO INSTALL PROJECT INFRASTRUCTURE WITH MINIMUM 20' SEPARATION FROM MLGW STEEL MONOPOLE FOUNDATIONS.

SEALED BY

MATTHEW J. DAVIS
REGISTERED ENGINEER
AGRICULTURE
No. 127748
STATE OF TENNESSEE
7/31/2025

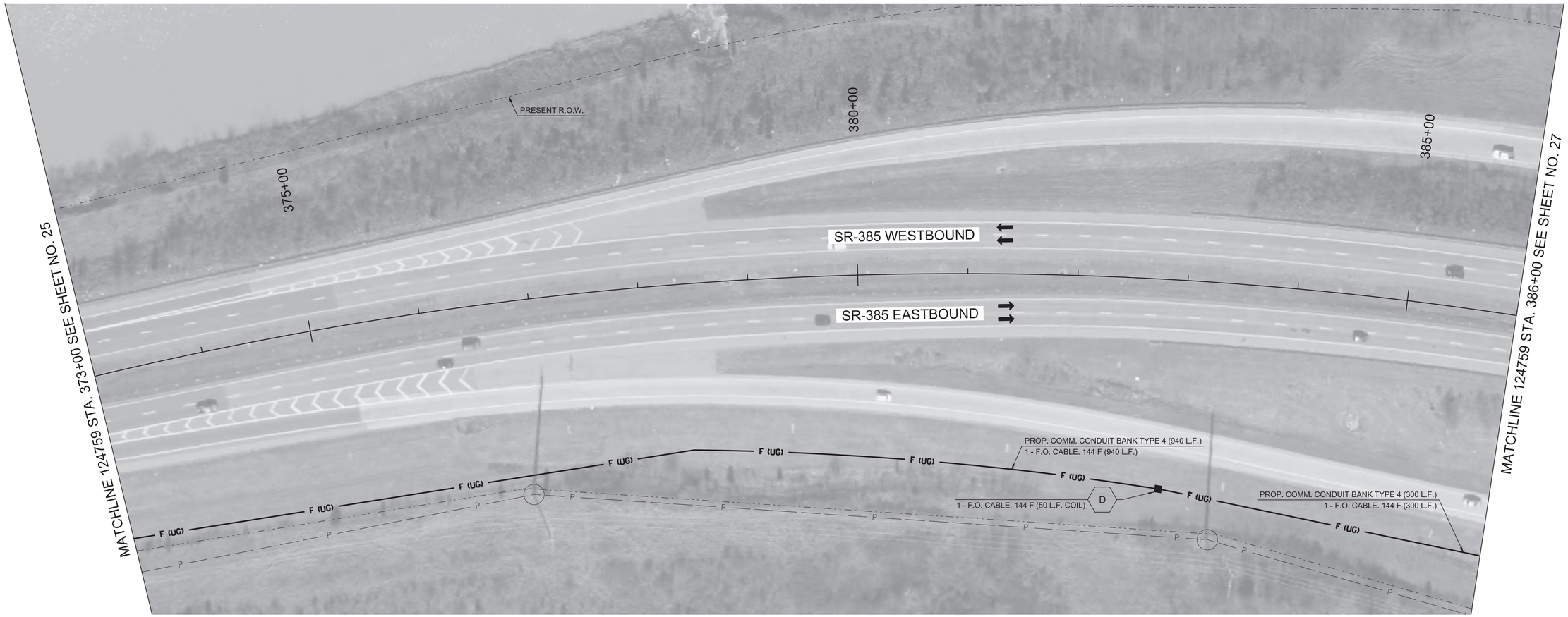
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ITS LAYOUT

SR-385
SCALE 1" = 50'
PIN 124759
STA. 360+00 TO 373+00

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TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	26
PS&E	2025	R-NH-385(33)	26



N

NOTE:

1. CONTRACTOR TO INSTALL PROJECT INFRASTRUCTURE WITH MINIMUM 20' SEPARATION FROM MLGW STEEL MONOPOLE FOUNDATIONS.

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MATTHEW J. DAVIS
REGISTERED ENGINEER
AGRICULTURE
240748
STATE OF TENNESSEE
7/9/2025

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ITS LAYOUT

SR-385
SCALE 1" = 50'
PIN 124759
STA. 373+00 TO 386+00

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TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	27
PS&E	2025	R-NH-385(33)	27

NOTES:

1. REEL-TO-REEL SPLICE ANTICIPATED AT TYPE E PULL BOX.
2. ARRANGEMENT OF DEVICES ON THIS SHEET IS GRAPHICAL. SEE DEVICE ORIENTATION SHEET FOR SPECIFIC ARRANGEMENT OF DEVICES.
3. CONTRACTOR TO COORDINATE WITH GAS MAIN OWNER DURING CONSTRUCTION TO ENSURE PROPER VERTICAL SEPARATION IS PROVIDED WHEN INSTALLING CONDUIT.
4. CONTRACTOR TO INSTALL PROJECT INFRASTRUCTURE WITH MINIMUM 20' SEPARATION FROM MLGW STEEL MONOPOLE FOUNDATIONS.
5. CONTRACTOR SHALL PROVIDE AND INSTALL RISER ON EXISTING MLGW POLE.

N

POWER SOURCE
SEE NOTE 5 IN THIS SHEET

PROP. ELEC. DEMARCATION R4J-SR385-012.5W
TYPE 1
MAX. 1000 W
120/240 V SINGLE-PHASE

C
1 - #4 AWG POWER (10 L.F. COIL)
1 - #4 AWG NEUTRAL (10 L.F. COIL)
1 - #4 AWG GROUND (10 L.F. COIL)

P/T (UG)

PROP. 2" CONDUIT, BORED (195 L.F.)
1 - #4 AWG POWER (195 L.F.)
1 - #4 AWG NEUTRAL (195 L.F.)
1 - #4 AWG GROUND (195 L.F.)

C
1 - #4 AWG POWER (10 L.F. COIL)
1 - #4 AWG NEUTRAL (10 L.F. COIL)
1 - #4 AWG GROUND (10 L.F. COIL)

PROP. 2" CONDUIT (275 L.F.)
1 - #4 AWG POWER (275 L.F.)
1 - #4 AWG NEUTRAL (275 L.F.)
1 - #4 AWG GROUND (275 L.F.)

PROP. 2" CONDUIT (15 L.F.)
1 - #4 AWG POWER (15 L.F.)
1 - #4 AWG NEUTRAL (15 L.F.)
1 - #4 AWG GROUND (15 L.F.)

PROPOSED CCTV CAMERA R4A-SR385-012.5W (SITE 5)
PROPOSED CCTV CAMERA R4B-SR385-012.5W (20' AGL)
SR-385 PIN 124759.00
STA. 393+40
195' FROM E.O.T.L.
80' STRAIN POLE
LOWERING DEVICE
TYPE B CABINET
NETWORK SWITCH, TYPE A
1 - F.O. DROP CABLE. 12 F (25 L.F. COIL)
1 - #4 AWG POWER (10 L.F. COIL)
1 - #4 AWG NEUTRAL (10 L.F. COIL)
1 - #4 AWG GROUND (10 L.F. COIL)
SEE NOTE 2 IN THIS SHEET

B
CCTV

PROP. COMM. CONDUIT BANK TYPE 2 (15 L.F.)
1 - F.O. DROP CABLE. 12 F (15 L.F.)

PRESENT R.O.W.

D
1 - F.O. DROP CABLE. 12 F (25 L.F. COIL)

P (UC)

C
1 - #4 AWG POWER (10 L.F. COIL)
1 - #4 AWG NEUTRAL (10 L.F. COIL)
1 - #4 AWG GROUND (10 L.F. COIL)

390+00

PROP. 2" CONDUIT, BORED (165 L.F.)
1 - #4 AWG POWER (165 L.F.)
1 - #4 AWG NEUTRAL (165 L.F.)
1 - #4 AWG GROUND (165 L.F.)
SEE NOTE 3 IN THIS SHEET

C
1 - #4 AWG POWER (10 L.F. COIL)
1 - #4 AWG NEUTRAL (10 L.F. COIL)
1 - #4 AWG GROUND (10 L.F. COIL)

F (UC)

395+00

PROP. COMM. CONDUIT BANK TYPE 2, BORED (530 L.F.)
1 - F.O. DROP CABLE. 12 F (530 L.F.)

SR-385 WESTBOUND

SR-385 EASTBOUND

EXISTING UNDERGROUND ELECTRIC

BYHALIA RD

E
PROP. FIBER CLOSURE, 144 F
1 - F.O. CABLE. 144 F (200 L.F. COIL)
1 - F.O. DROP CABLE. 12 F (100 L.F. COIL)
FIBER SPLICE FUSION (146 EA.)
SEE NOTE 1 IN THIS SHEET

PROP. COMM. CONDUIT BANK TYPE 4, BORED (275 L.F.)
1 - F.O. CABLE. 144 F (275 L.F.)
SEE NOTE 3 IN THIS SHEET

PROP. COMM. CONDUIT BANK TYPE 4 (280 L.F.)
1 - F.O. CABLE. 144 F (280 L.F.)

PROP. COMM. CONDUIT BANK TYPE 4 (660 L.F.)
1 - F.O. CABLE. 144 F (660 L.F.)

D
1 - F.O. CABLE. 144 F (50 L.F. COIL)

EXISTING GAS PIPE (ABANDONED)

EXISTING GAS MAIN

MATCHLINE 124759 STA. 386+00 SEE SHEET NO. 26

MATCHLINE 124759 STA. 399+00 SEE SHEET NO. 28

SEALED BY

MATTHEW J. DAVIS
REGISTERED ENGINEER
AGRICULTURE
ENDURANCE
120748
STATE OF TENNESSEE
7/29/2025

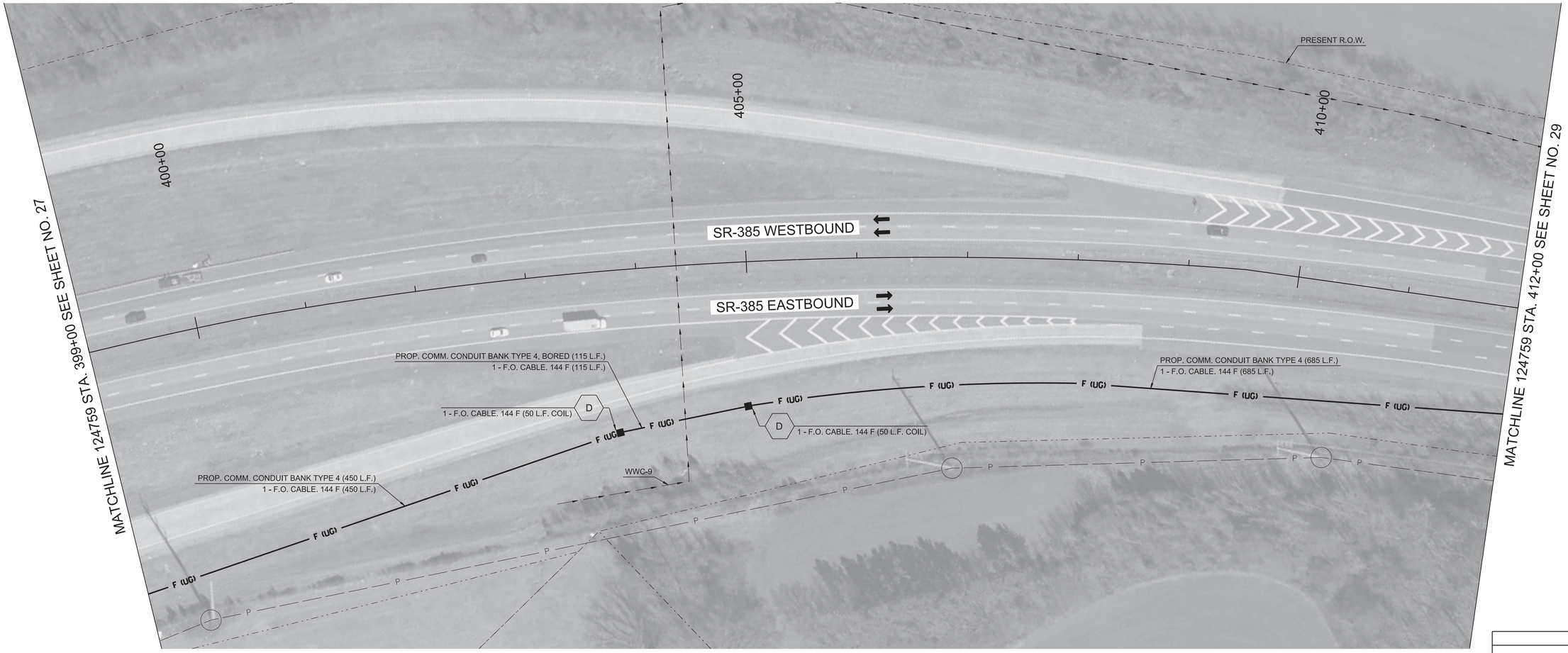
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ITS
LAYOUT

SR-385
SCALE 1" = 50'
PIN 124759
STA. 386+00 TO 399+00

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TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	28
PS&E	2025	R-NH-385(33)	28



NOTES:

1. CONTRACTOR TO INSTALL PROJECT INFRASTRUCTURE WITH MINIMUM 20' SEPARATION FROM MLGW STEEL MONOPOLE FOUNDATIONS.
2. UTILITY CROSSINGS ON STREAMS AT THE PERMITTED LOCATIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH TDOT STANDARDS AND NO WORK SHALL BE DONE IN FLOWING WATER. THE DISTURBED AREA SHALL BE RESTORED TO EXISTING CONDITIONS.
3. THE CONTRACTOR SHALL USE ANY MEASURES NECESSARY TO ENSURE THAT CONSTRUCTION AND CONSTRUCTION EQUIPMENT WILL NOT ENTER ANY PORTION OF THE STREAM OR WETLAND AND THAT THE FEATURE'S SURROUNDING VEGETATION WILL NOT BE DISTURBED AND ARE PROTECTED FROM SEDIMENT AND OTHER POLLUTANTS EXCEPT AT THE PERMITTED LOCATION.

SEALED BY



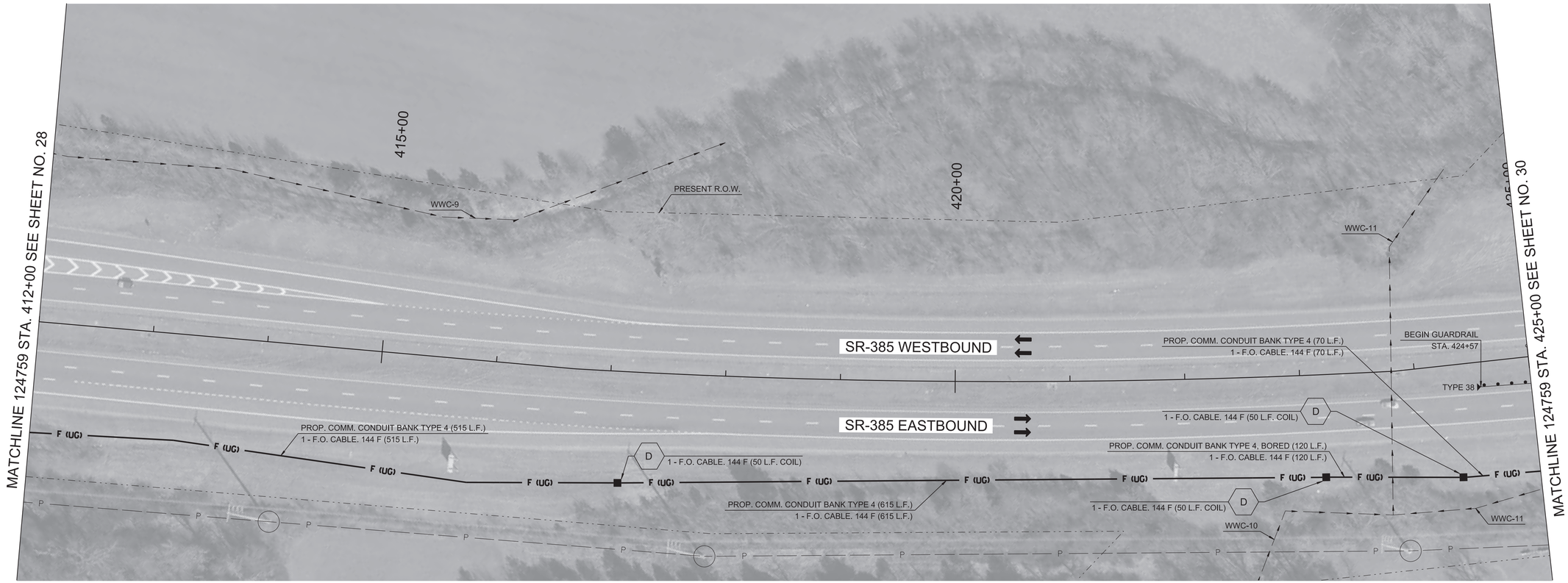
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ITS LAYOUT

SR-385
SCALE 1" = 50'
PIN 124759
STA. 399+00 TO 412+00

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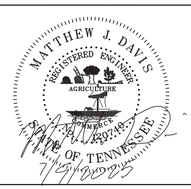
TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	29
PS&E	2025	R-NH-385(33)	29



NOTES:

1. CONTRACTOR TO INSTALL PROJECT INFRASTRUCTURE WITH MINIMUM 20' SEPARATION FROM MLGW STEEL MONOPOLE FOUNDATIONS.
2. UTILITY CROSSINGS ON STREAMS AT THE PERMITTED LOCATIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH TDOT STANDARDS AND NO WORK SHALL BE DONE IN FLOWING WATER. THE DISTURBED AREA SHALL BE RESTORED TO EXISTING CONDITIONS.
3. THE CONTRACTOR SHALL USE ANY MEASURES NECESSARY TO ENSURE THAT CONSTRUCTION AND CONSTRUCTION EQUIPMENT WILL NOT ENTER ANY PORTION OF THE STREAM OR WETLAND AND THAT THE FEATURE'S SURROUNDING VEGETATION WILL NOT BE DISTURBED AND ARE PROTECTED FROM SEDIMENT AND OTHER POLLUTANTS EXCEPT AT THE PERMITTED LOCATION.

SEALED BY



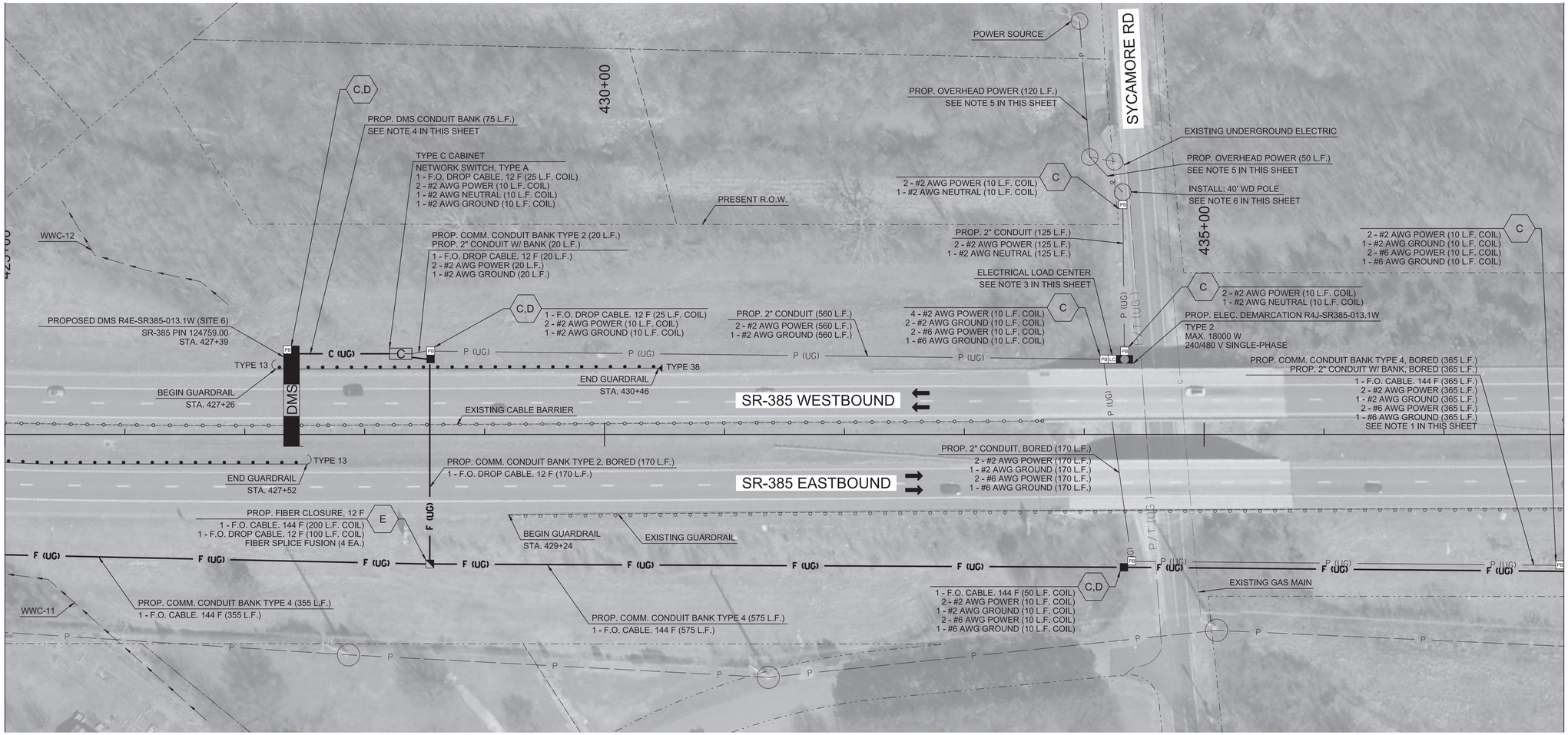
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ITS LAYOUT

SR-385
SCALE 1" = 50'
PIN 124759
STA. 412+00 TO 425+00

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TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	30
PS&E	2025	R-NH-385(33)	30



NOTES:

1. CONTRACTOR TO COORDINATE WITH GAS MAIN OWNER DURING CONSTRUCTION TO ENSURE PROPER VERTICAL SEPARATION IS PROVIDED WHEN INSTALLING CONDUIT.
2. CONTRACTOR TO INSTALL PROJECT INFRASTRUCTURE WITH MINIMUM 20' SEPARATION FROM MLGW STEEL MONOPOLE FOUNDATIONS.
3. SEE SITES 6 AND 7 POWER SERVICE DETAIL FOR LOAD CENTER DETAILS AND REQUIREMENTS. LOAD CENTER TO BE PAID UNDER DEMARCATION SITE (UNDERGROUND POWER) PAY ITEM (725-21.44). LOAD CENTER TO BE PLACED AT LEAST 30' AWAY FROM TRAVEL LANES ON SYCAMORE ROAD.
4. DMS COMMUNICATION AND POWER CABLES TO BE PAID FOR AS PART OF PAY ITEM 725-21.02.
5. ITEM TO BE PROVIDED AND INSTALLED BY MLGW. TO BE PAID UNDER ELECTRICAL CONNECTION PAY ITEM (725-20.71).
6. CONTRACTOR SHALL PROVIDE AND INSTALL NEW WOOD POLE AND RISER.
7. SECONDARY SERVICE RISERS NOT SHOWN. SEE SHEETS 2L3 AND 2L7 FOR ADDITIONAL DETAILS.
8. UTILITY CROSSINGS ON STREAMS AT THE PERMITTED LOCATIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH TDOT STANDARDS AND NO WORK SHALL BE DONE IN FLOWING WATER. THE DISTURBED AREA SHALL BE RESTORED TO EXISTING CONDITIONS.
9. THE CONTRACTOR SHALL USE ANY MEASURES NECESSARY TO ENSURE THAT CONSTRUCTION AND CONSTRUCTION EQUIPMENT WILL NOT ENTER ANY PORTION OF THE STREAM OR WETLAND AND THAT THE FEATURE'S SURROUNDING VEGETATION WILL NOT BE DISTURBED AND ARE PROTECTED FROM SEDIMENT AND OTHER POLLUTANTS EXCEPT AT THE PERMITTED LOCATION.

SEALED BY

MATTHEW J. DAVIS
REGISTERED ENGINEER
AGRICULTURE
No. 127748
STATE OF TENNESSEE
7/31/2025

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ITS LAYOUT

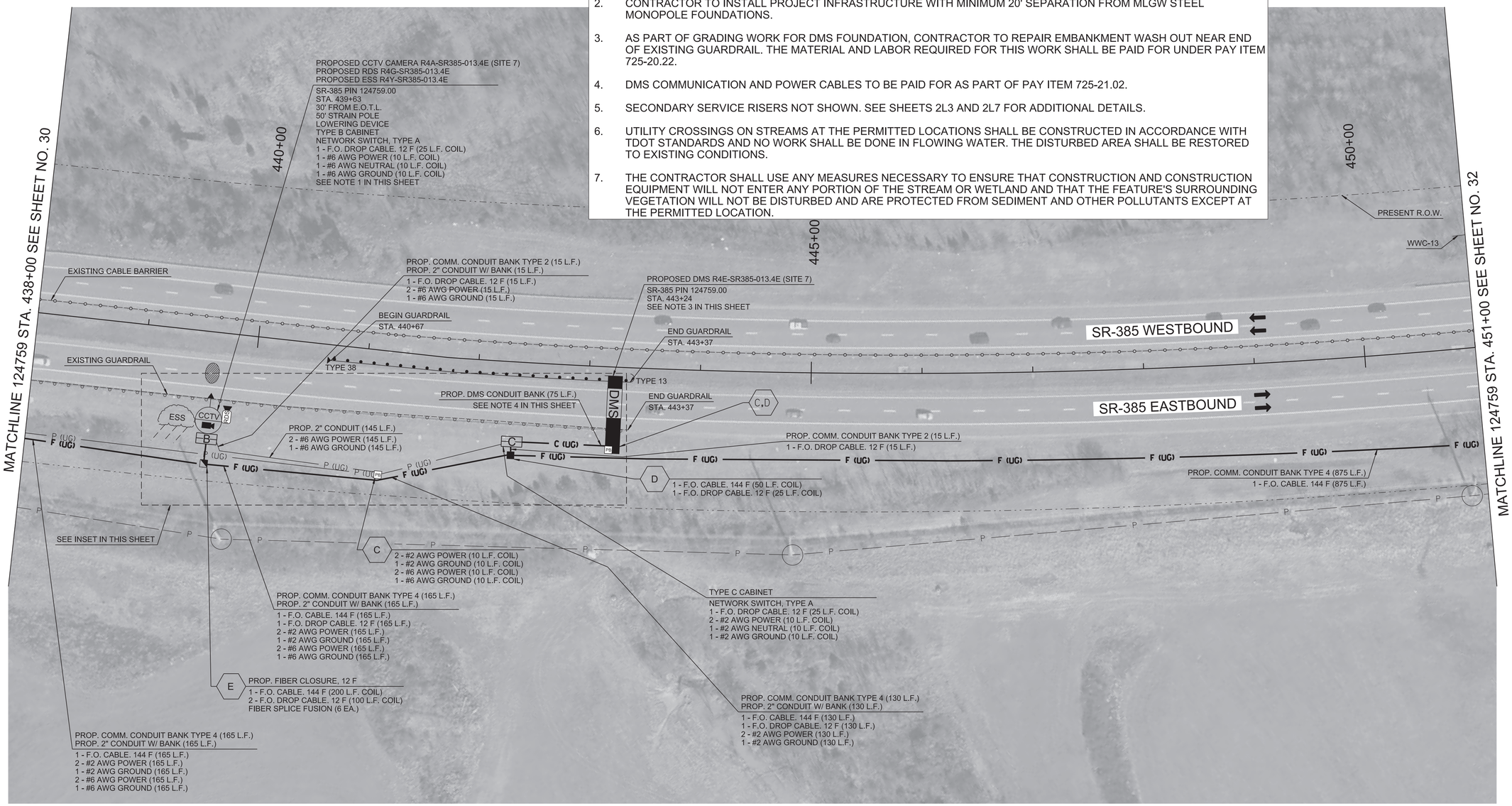
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STA. 425+00 TO 438+00

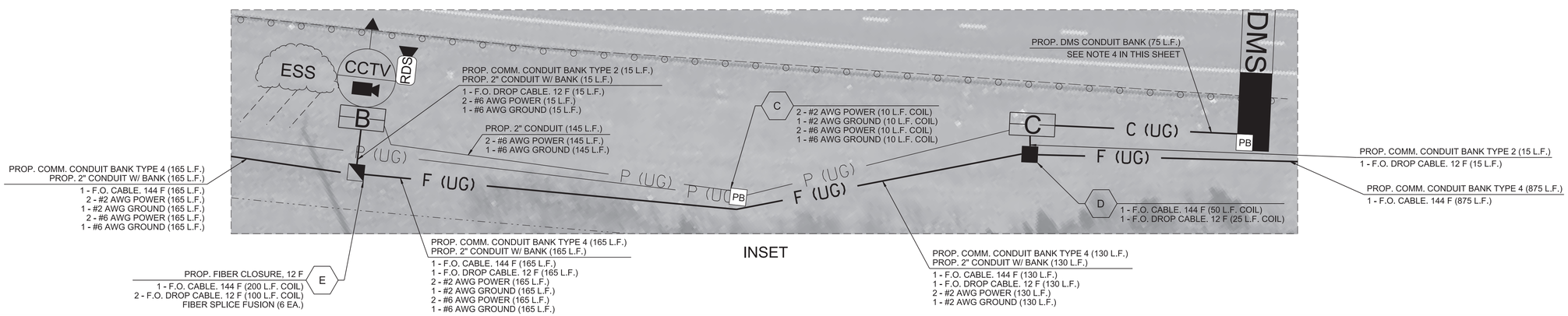
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TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	31
PS&E	2025	R-NH-385(33)	31

NOTES:

1. ARRANGEMENT OF DEVICES ON THIS SHEET IS GRAPHICAL. SEE DEVICE ORIENTATION SHEET FOR SPECIFIC ARRANGEMENT OF DEVICES.
2. CONTRACTOR TO INSTALL PROJECT INFRASTRUCTURE WITH MINIMUM 20' SEPARATION FROM MLGW STEEL MONOPOLE FOUNDATIONS.
3. AS PART OF GRADING WORK FOR DMS FOUNDATION, CONTRACTOR TO REPAIR EMBANKMENT WASH OUT NEAR END OF EXISTING GUARDRAIL. THE MATERIAL AND LABOR REQUIRED FOR THIS WORK SHALL BE PAID FOR UNDER PAY ITEM 725-20.22.
4. DMS COMMUNICATION AND POWER CABLES TO BE PAID FOR AS PART OF PAY ITEM 725-21.02.
5. SECONDARY SERVICE RISERS NOT SHOWN. SEE SHEETS 2L3 AND 2L7 FOR ADDITIONAL DETAILS.
6. UTILITY CROSSINGS ON STREAMS AT THE PERMITTED LOCATIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH TDOT STANDARDS AND NO WORK SHALL BE DONE IN FLOWING WATER. THE DISTURBED AREA SHALL BE RESTORED TO EXISTING CONDITIONS.
7. THE CONTRACTOR SHALL USE ANY MEASURES NECESSARY TO ENSURE THAT CONSTRUCTION AND CONSTRUCTION EQUIPMENT WILL NOT ENTER ANY PORTION OF THE STREAM OR WETLAND AND THAT THE FEATURE'S SURROUNDING VEGETATION WILL NOT BE DISTURBED AND ARE PROTECTED FROM SEDIMENT AND OTHER POLLUTANTS EXCEPT AT THE PERMITTED LOCATION.





INSET

SEALED BY

MATTHEW J. DAVIS
REGISTERED ENGINEER
AGRICULTURE
No. 120748
STATE OF TENNESSEE
7/29/2025

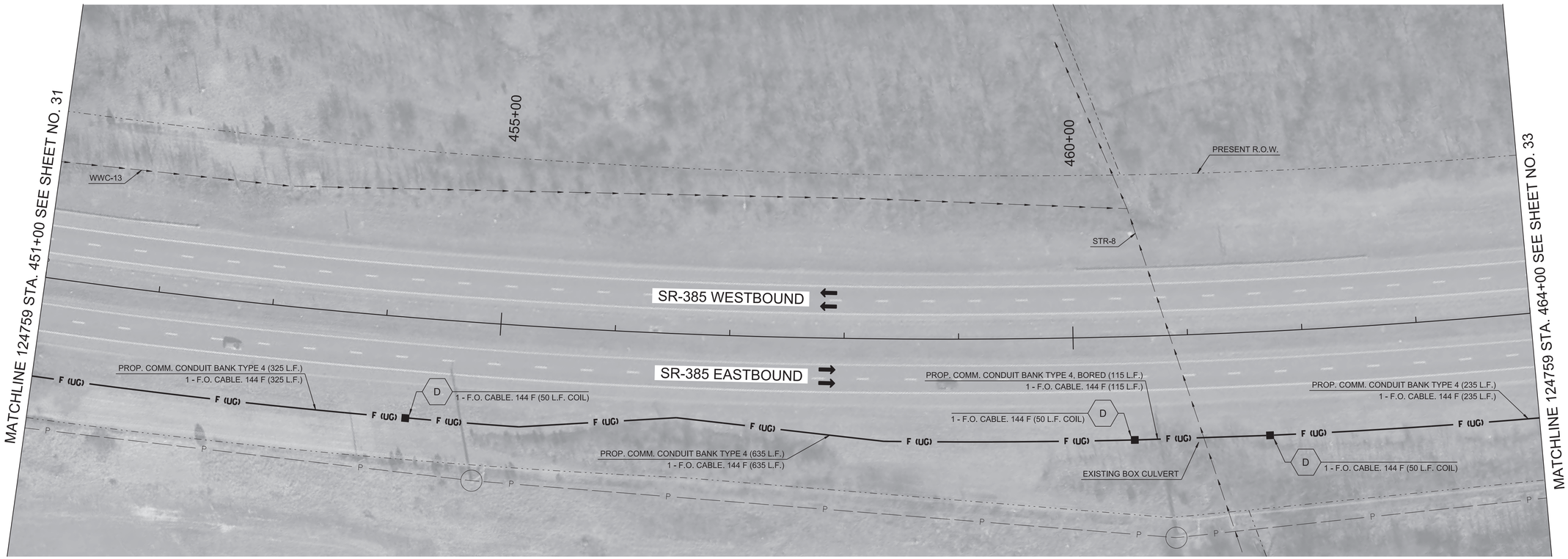
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ITS LAYOUT

SR-385
SCALE 1" = 50'
PIN 124759
STA. 438+00 TO 451+00

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TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	32
PS&E	2025	R-NH-385(33)	32



NOTES:

1. CONTRACTOR TO INSTALL PROJECT INFRASTRUCTURE WITH MINIMUM 20' SEPARATION FROM MLGW STEEL MONOPOLE FOUNDATIONS.
2. UTILITY CROSSINGS ON STREAMS AT THE PERMITTED LOCATIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH TDOT STANDARDS AND NO WORK SHALL BE DONE IN FLOWING WATER. THE DISTURBED AREA SHALL BE RESTORED TO EXISTING CONDITIONS.
3. THE CONTRACTOR SHALL USE ANY MEASURES NECESSARY TO ENSURE THAT CONSTRUCTION AND CONSTRUCTION EQUIPMENT WILL NOT ENTER ANY PORTION OF STR-8 AND THAT THE FEATURE'S SURROUNDING VEGETATION WILL NOT BE DISTURBED AND ARE PROTECTED FROM SEDIMENT AND OTHER POLLUTANTS EXCEPT AT THE PERMITTED LOCATION.
4. HIGH VISIBILITY FENCE (S-F-1) SHALL BE PLACED AROUND ALL NON-IMPACTED SECTIONS OF WATER QUALITY FEATURES (STR-8) WITHIN 50' OF GROUND DISTURBANCE DUE TO CONSTRUCTION WITHIN THE ROW OR EASEMENTS.

SEALED BY

MATTHEW J. DAVIS
REGISTERED ENGINEER
AGRICULTURE
ENGINEERING
STATE OF TENNESSEE
7/29/2025

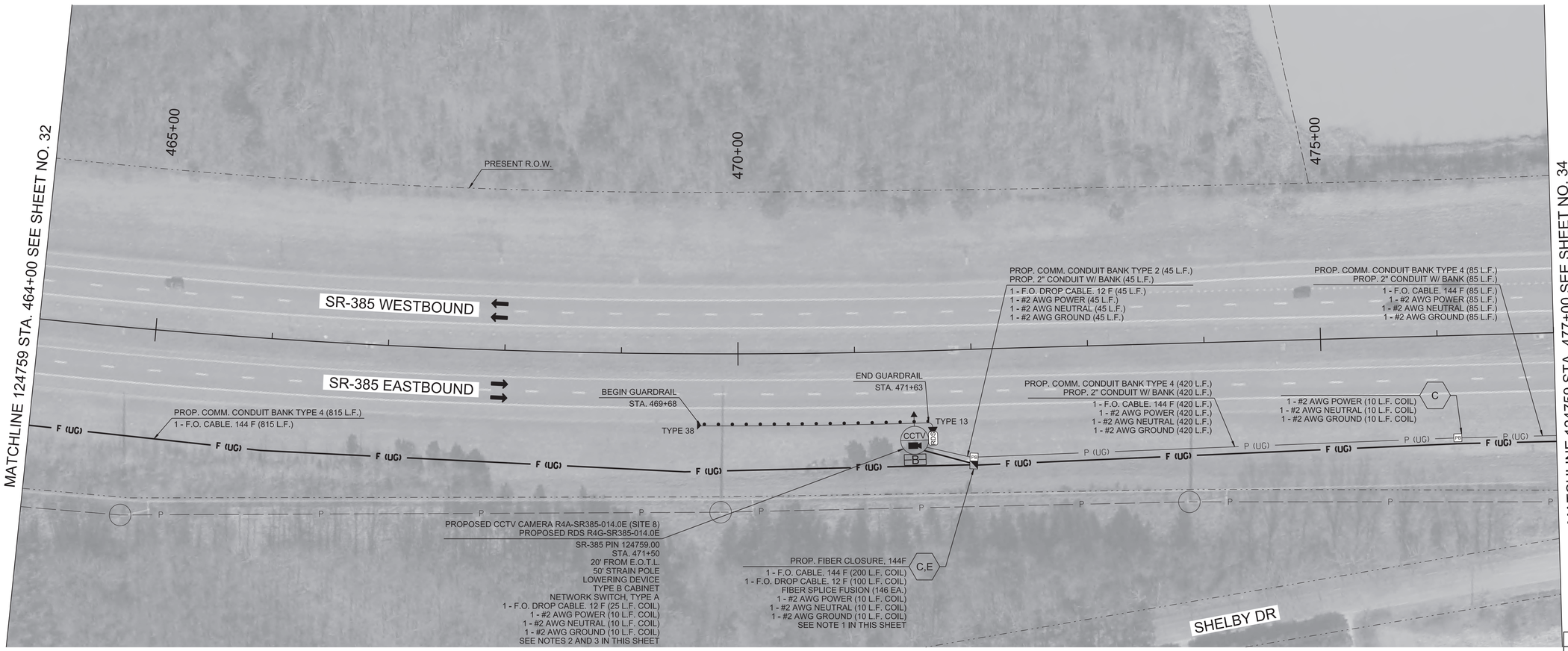
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ITS LAYOUT

SR-385
SCALE 1" = 50'
PIN 124759
STA. 451+00 TO 464+00

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TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	33
PS&E	2025	R-NH-385(33)	33



NOTES:

1. REEL-TO-REEL SPLICE ANTICIPATED AT TYPE E PULL BOX.
2. ARRANGEMENT OF DEVICES ON THIS SHEET IS GRAPHICAL. SEE DEVICE ORIENTATION SHEET FOR SPECIFIC ARRANGEMENT OF DEVICES.
3. CCTV CAMERA POLE TO HAVE 50' MIN. SEPARATION FROM OVERHEAD TRANSMISSION LINES.
4. CONTRACTOR TO INSTALL PROJECT INFRASTRUCTURE WITH MINIMUM 20' SEPARATION FROM MLGW STEEL MONOPOLE FOUNDATIONS.

SEALED BY



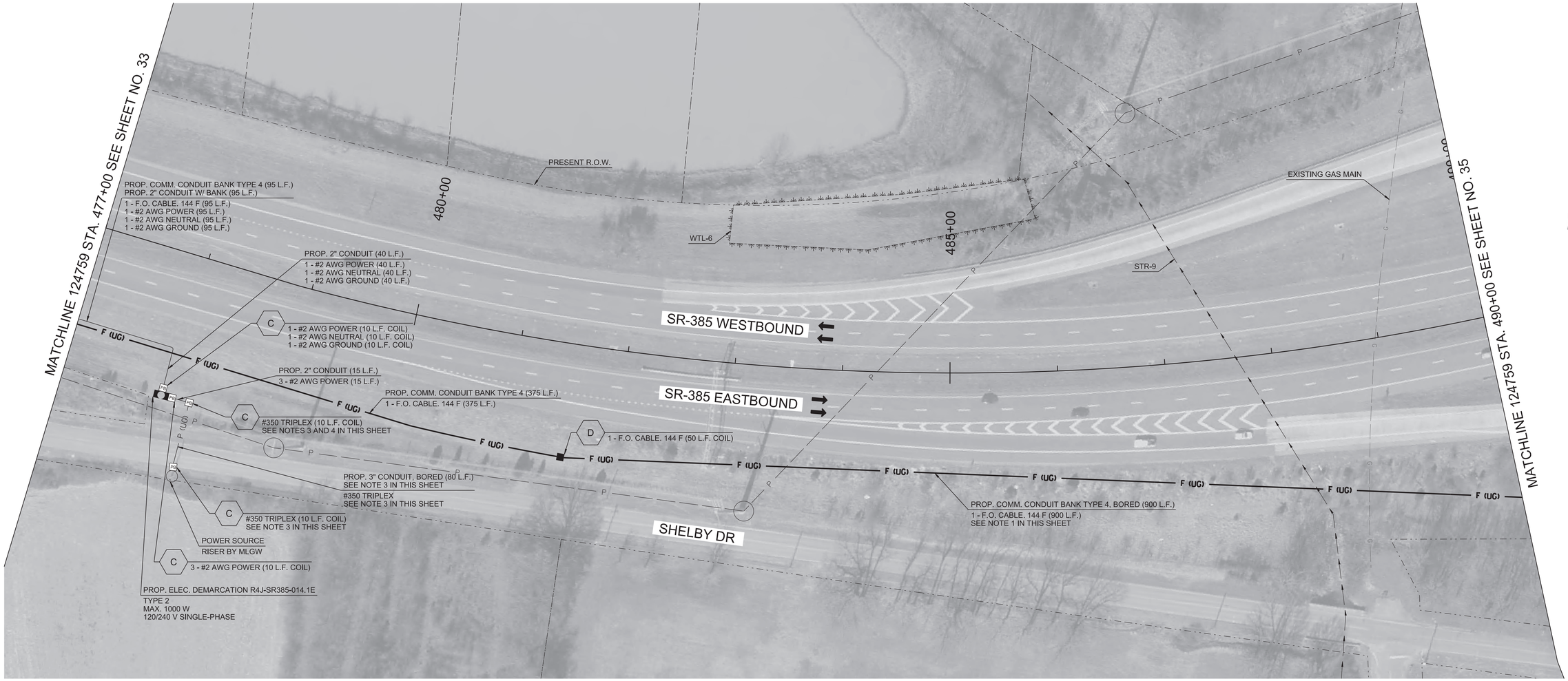
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ITS LAYOUT

SR-385
SCALE 1" = 50'
PIN 124759
STA. 464+00 TO 477+00

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TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	34
PS&E	2025	R-NH-385(33)	34



NOTES:

1. CONTRACTOR TO COORDINATE WITH GAS MAIN OWNER DURING CONSTRUCTION TO ENSURE PROPER VERTICAL SEPARATION IS PROVIDED WHEN INSTALLING CONDUIT.
2. CONTRACTOR TO INSTALL PROJECT INFRASTRUCTURE WITH MINIMUM 20' SEPARATION FROM MLGW STEEL MONOPOLE FOUNDATIONS.
3. ITEM TO BE PROVIDED AND INSTALLED BY MLGW. TO BE PAID UNDER ELECTRICAL CONNECTION PAY ITEM (725-20.71).
4. MLGW TO BRING POWER SERVICE FROM POWER SOURCE TO THE UNDERGROUND PULL BOX, PULL BOX FURNISHED AND INSTALLED BY MLGW. CONTRACTOR SHALL BRING CONDUIT WITH CONDUCTORS TO THIS PULL BOX AND CONNECT TO MLGW'S SERVICE. THE WORK SHALL BE COORDINATED WITH MLGW PERSONNEL.
5. UTILITY CROSSINGS ON STREAMS AT THE PERMITTED LOCATIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH TDOT STANDARDS AND NO WORK SHALL BE DONE IN FLOWING WATER. THE DISTURBED AREA SHALL BE RESTORED TO EXISTING CONDITIONS.
6. THE CONTRACTOR SHALL USE ANY MEASURES NECESSARY TO ENSURE THAT CONSTRUCTION AND CONSTRUCTION EQUIPMENT WILL NOT ENTER ANY PORTION OF STR-9 AND WTL-6 AND THAT THE FEATURE'S SURROUNDING VEGETATION WILL NOT BE DISTURBED AND ARE PROTECTED FROM SEDIMENT AND OTHER POLLUTANTS EXCEPT AT THE PERMITTED LOCATION.
7. HIGH VISIBILITY FENCE (S-F-1) SHALL BE PLACED AROUND ALL NON-IMPACTED SECTIONS OF WATER QUALITY FEATURES (STR-9 AND WTL-6) WITHIN 50' OF GROUND DISTURBANCE DUE TO CONSTRUCTION WITHIN THE ROW OR EASEMENTS.

SEALED BY

MATTHEW J. DAVIS
REGISTERED ENGINEER
AGRICULTURE
ENGINEER
No. 120738
STATE OF TENNESSEE
7/9/2025

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ITS LAYOUT

SR-385
SCALE 1" = 50'
PIN 124759
STA. 477+00 TO 490+00

7/9/2025 9:21:05 AM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	35
PS&E	2025	R-NH-385(33)	35

MATCHLINE 124759 STA. 490+00 SEE SHEET NO. 34

490+00

495+00

500+00

US 72

EXISTING UNDERGROUND ELECTRIC

P/T (UG)

PROP. COMM. CONDUIT BANK TYPE 2 (15 L.F.)
1 - RDS COMM. CABLE. (15 L.F.)

1 - RDS COMM. CABLE. (20 L.F. COIL) D

PROPOSED RDS R4G-SR385-014.6E
SR-385 PIN 124759.00
STA. 501+82
20' FROM E.O.T.L.
30' STRAIN POLE
1 - RDS COMM. CABLE. (20 L.F. COIL)

PROPOSED CCTV CAMERA R4A-SR385-014.6E (SITE 9)
PROPOSED CCTV CAMERA R4B-SR385-014.6E (20' AGL)
SR-385 PIN 124759.00
STA. 500+96
40' FROM E.O.T.L.
80' STRAIN POLE
LOWERING DEVICE
TYPE B CABINET
NETWORK SWITCH, TYPE A
1 - F.O. DROP CABLE. 12 F (25 L.F. COIL)
1 - #4 AWG POWER (10 L.F. COIL)
1 - #4 AWG NEUTRAL (10 L.F. COIL)
1 - #4 AWG GROUND (10 L.F. COIL)
1 - RDS COMM. CABLE. (20 L.F. COIL)
SEE NOTES 1 AND 2 IN THIS SHEET

PROP. COMM. CONDUIT BANK TYPE 2, BORED (75 L.F.)
1 - RDS COMM. CABLE. (75 L.F.)

PROP. COMM. CONDUIT BANK TYPE 2 (25 L.F.)
PROP. 2" CONDUIT W/ BANK (25 L.F.)
1 - F.O. DROP CABLE. 12 F (25 L.F.)
1 - #4 AWG POWER (25 L.F.)
1 - #4 AWG NEUTRAL (25 L.F.)
1 - #4 AWG GROUND (25 L.F.)
1 - RDS COMM. CABLE. (25 L.F.)

SR-385 WESTBOUND

SR-385 EASTBOUND

1 - F.O. DROP CABLE. 12 F (25 L.F. COIL)
1 - #4 AWG POWER (10 L.F. COIL)
1 - #4 AWG NEUTRAL (10 L.F. COIL)
1 - #4 AWG GROUND (10 L.F. COIL)
1 - RDS COMM. CABLE. (20 L.F. COIL) C,D

CCTV
B
RDS
C (UG)

PROP. COMM. CONDUIT BANK TYPE 4, BORED (65 L.F.)
1 - F.O. CABLE. 144 F (65 L.F.)

F (UG)

1 - F.O. CABLE. 144 F (50 L.F. COIL) D

PROP. COMM. CONDUIT BANK TYPE 2, BORED (140 L.F.)
PROP. 2" CONDUIT W/ BANK BORED (140 L.F.)
1 - F.O. DROP CABLE. 12 F (140 L.F.)
1 - #4 AWG POWER (140 L.F.)
1 - #4 AWG NEUTRAL (140 L.F.)
1 - #4 AWG GROUND (140 L.F.)

PROP. COMM. CONDUIT BANK TYPE 4 (535 L.F.)
1 - F.O. CABLE. 144 F (535 L.F.)

PROP. COMM. CONDUIT BANK TYPE 4 (180 L.F.)
1 - F.O. CABLE. 144 F (180 L.F.)

PRESENT R.O.W.

PROP. COMM. CONDUIT BANK TYPE 4, BORED (565 L.F.)
1 - F.O. CABLE. 144 F (565 L.F.)

PROP. FIBER CLOSURE, 12 F
1 - F.O. CABLE. 144 F (200 L.F. COIL)
1 - F.O. DROP CABLE. 12 F (100 L.F. COIL)
FIBER SPLICE FUSION (4 EA.)
1 - #4 AWG POWER (10 L.F. COIL)
1 - #4 AWG NEUTRAL (10 L.F. COIL)
1 - #4 AWG GROUND (10 L.F. COIL) C,E

P (UG)

PROP. 2" CONDUIT (515 L.F.)
1 - #4 AWG POWER (515 L.F.)
1 - #4 AWG NEUTRAL (515 L.F.)
1 - #4 AWG GROUND (515 L.F.)

1 - #4 AWG POWER (10 L.F. COIL)
1 - #4 AWG NEUTRAL (10 L.F. COIL)
1 - #4 AWG GROUND (10 L.F. COIL) C

PROP. 2" CONDUIT, BORED (165 L.F.)
1 - #4 AWG POWER (165 L.F.)
1 - #4 AWG NEUTRAL (165 L.F.)
1 - #4 AWG GROUND (165 L.F.)

1 - #4 AWG POWER (10 L.F. COIL)
1 - #4 AWG NEUTRAL (10 L.F. COIL)
1 - #4 AWG GROUND (10 L.F. COIL) C

PROP. ELEC. DEMARCATION R4J-SR385-014.6E
TYPE 1
MAX. 1000 W
120/240 V SINGLE-PHASE

PROP. OVERHEAD POWER (65 L.F.)
SEE NOTE 3 IN THIS SHEET

POWER SOURCE

SHELBY DR

MATCHLINE 124759 STA. 503+00 SEE SHEET NO. 36

N

NOTES:

1. ARRANGEMENT OF DEVICES ON THIS SHEET IS GRAPHICAL. SEE DEVICE ORIENTATION SHEET FOR SPECIFIC ARRANGEMENT OF DEVICES.
2. POLE SHALL NOT BE LOCATED IN DIRECT PATH OF FLOWING WATER FROM OVERHEAD SR-385 BRIDGE DRAIN TO AVOID EROSION AROUND AND UNNECESSARY MOISTURE EXPOSURE TO THE DEVICE SITE.
3. ITEM TO BE PROVIDED AND INSTALLED BY MLGW. TO BE PAID UNDER ELECTRICAL CONNECTION PAY ITEM (725-20.71)

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MATTHEW J. DAVIS
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ENGINEERING
No. 120748
STATE OF TENNESSEE

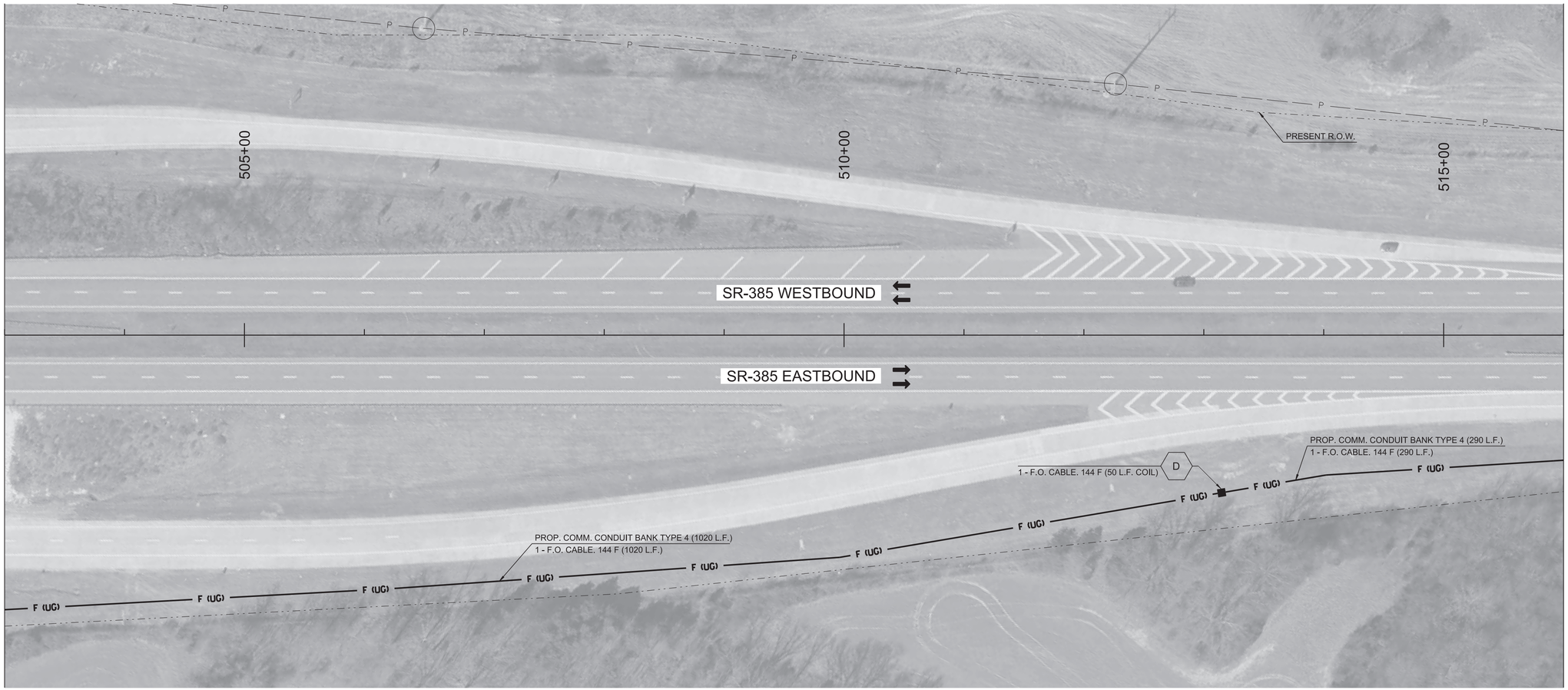
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ITS LAYOUT

SR-385
SCALE 1" = 50'
PIN 124759
STA. 490+00 TO 503+00

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TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	36
PS&E	2025	R-NH-385(33)	36



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MATTHEW J. DAVIS
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AGRICULTURE
COMMERCE &
STATE OF TENNESSEE
7/9/2025

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ITS LAYOUT

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TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	37
PS&E	2025	R-NH-385(33)	37



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ENGINEERING
No. 127495
STATE OF TENNESSEE
7/9/2025

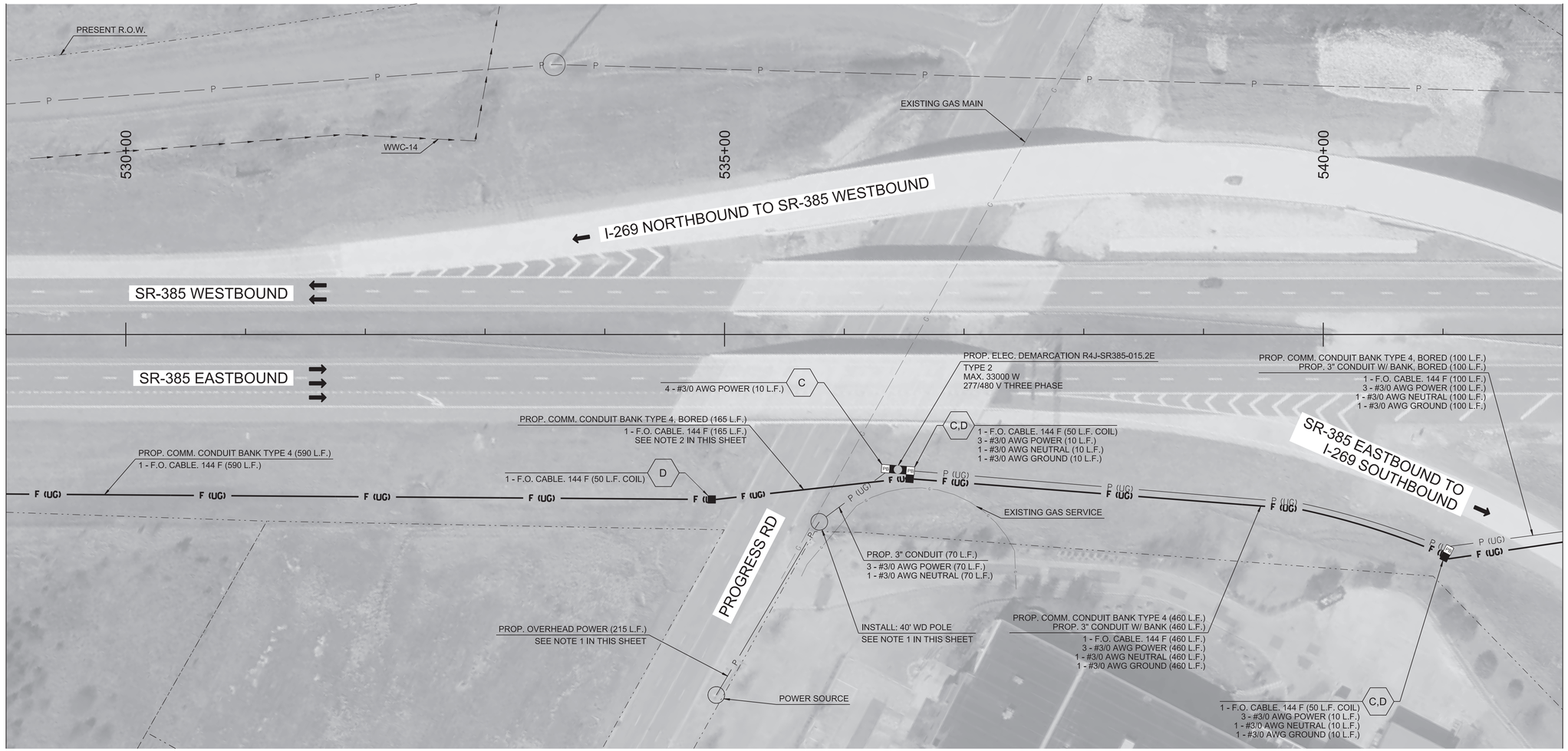
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

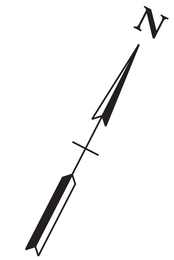
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TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	38
PS&E	2025	R-NH-385(33)	38

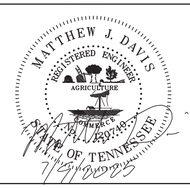




NOTES:

1. ITEM TO BE PROVIDED AND INSTALLED BY MLGW. TO BE PAID UNDER ELECTRICAL CONNECTION PAY ITEM (725-20.71). CONTRACTOR SHALL PROVIDE AND INSTALL RISER ON NEW MLGW POLE.
2. CONTRACTOR TO COORDINATE WITH GAS MAIN OWNER DURING CONSTRUCTION TO ENSURE PROPER VERTICAL SEPARATION IS PROVIDED WHEN INSTALLING CONDUIT.
3. UTILITY CROSSINGS ON STREAMS AT THE PERMITTED LOCATIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH TDOT STANDARDS AND NO WORK SHALL BE DONE IN FLOWING WATER. THE DISTURBED AREA SHALL BE RESTORED TO EXISTING CONDITIONS.
4. THE CONTRACTOR SHALL USE ANY MEASURES NECESSARY TO ENSURE THAT CONSTRUCTION AND CONSTRUCTION EQUIPMENT WILL NOT ENTER ANY PORTION OF THE STREAM OR WETLAND AND THAT THE FEATURE'S SURROUNDING VEGETATION WILL NOT BE DISTURBED AND ARE PROTECTED FROM SEDIMENT AND OTHER POLLUTANTS EXCEPT AT THE PERMITTED LOCATION.

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ITS LAYOUT

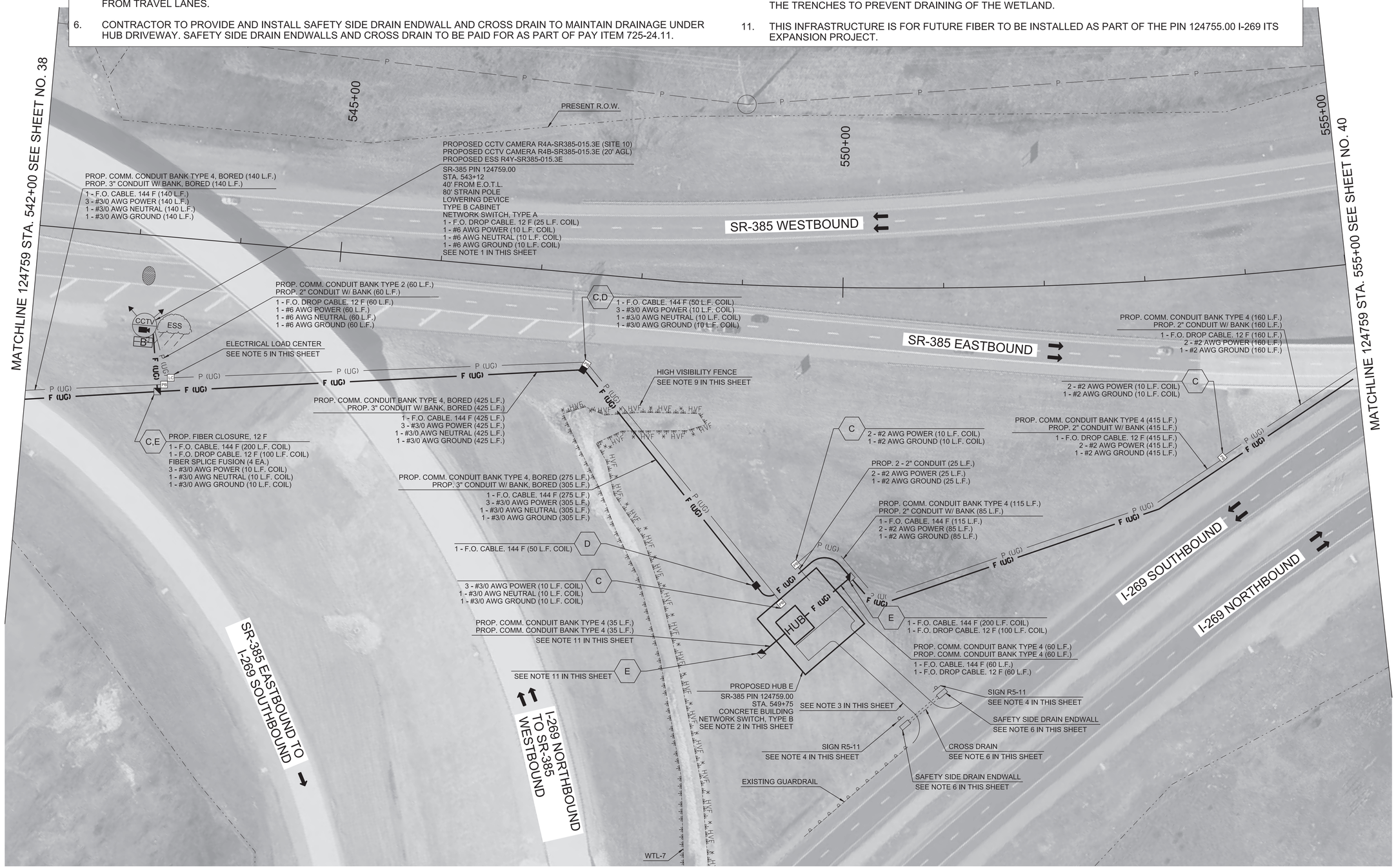
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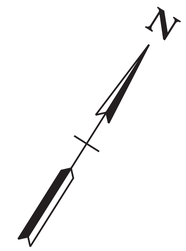
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NOTES:

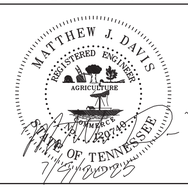
1. ARRANGEMENT OF DEVICES ON THIS SHEET IS GRAPHICAL. SEE DEVICE ORIENTATION SHEET FOR SPECIFIC ARRANGEMENT OF DEVICES.
2. SEE HUB SITE DETAILS IN THIS PLAN SET FOR HUB LAYOUT AND REQUIREMENTS INCLUDING ADDITIONAL ELECTRICAL INFRASTRUCTURE REQUIREMENTS AND LAYOUT NOT SHOWN ON THIS SHEET.
3. PAVED DRIVEWAY WITH CROSS DRAIN TO BE PROVIDED AND PAID FOR AS PART OF PAY ITEM 725-24.11. SEE HUB DETAILS IN THIS PLAN SET.
4. CONTRACTOR TO PROVIDE AND INSTALL "AUTHORIZED VEHICLES ONLY" SIGNS AND SIGN POSTS. SIGNS AND SIGN POSTS TO BE PAID FOR AS PART OF PAY ITEM 725-24.11. SEE HUB DETAILS IN THIS PLAN SET.
5. SEE SITES 10 AND 11 POWER SERVICE DETAIL FOR LOAD CENTER DETAILS AND REQUIREMENTS. LOAD CENTER TO BE PAID UNDER DEMARCATION SITE (UNDERGROUND POWER) PAY ITEM (725-21.44). LOAD CENTER TO BE PLACED AT LEAST 50' AWAY FROM TRAVEL LANES.
6. CONTRACTOR TO PROVIDE AND INSTALL SAFETY SIDE DRAIN ENDWALL AND CROSS DRAIN TO MAINTAIN DRAINAGE UNDER HUB DRIVEWAY. SAFETY SIDE DRAIN ENDWALLS AND CROSS DRAIN TO BE PAID FOR AS PART OF PAY ITEM 725-24.11.
7. UTILITY CROSSINGS ON STREAMS AT THE PERMITTED LOCATIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH TDOT STANDARDS AND NO WORK SHALL BE DONE IN FLOWING WATER. THE DISTURBED AREA SHALL BE RESTORED TO EXISTING CONDITIONS.
8. THE CONTRACTOR SHALL USE ANY MEASURES NECESSARY TO ENSURE THAT CONSTRUCTION AND CONSTRUCTION EQUIPMENT WILL NOT ENTER ANY PORTION OF WTL-7 AND THAT THE FEATURE'S SURROUNDING VEGETATION WILL NOT BE DISTURBED AND ARE PROTECTED FROM SEDIMENT AND OTHER POLLUTANTS EXCEPT AT THE PERMITTED LOCATION.
9. HIGH VISIBILITY FENCE (S-F-1) SHALL BE PLACED AROUND ALL NON-IMPACTED SECTIONS OF WATER QUALITY FEATURES (WTL-7) WITHIN 50' OF GROUND DISTURBANCE DUE TO CONSTRUCTION WITHIN THE ROW OR EASEMENTS.
10. WETLAND CROSSING AT PERMITTED LOCATIONS: THE CONTRACTOR SHALL KEEP WETLAND DISTURBANCE TO A MINIMUM AND AS NEEDED FOR CONDUIT AND PULL BOX INSTALLATION. THE DISTURBED AREA SHALL BE RESTORED TO EXISTING CONDITIONS AND COMPACTED CLAY PLUGS SHALL BE USED AT THE ENDS OF THE TRENCHES TO PREVENT DRAINING OF THE WETLAND.
11. THIS INFRASTRUCTURE IS FOR FUTURE FIBER TO BE INSTALLED AS PART OF THE PIN 124755.00 I-269 ITS EXPANSION PROJECT.

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	39
PS&E	2025	R-NH-385(33)	39





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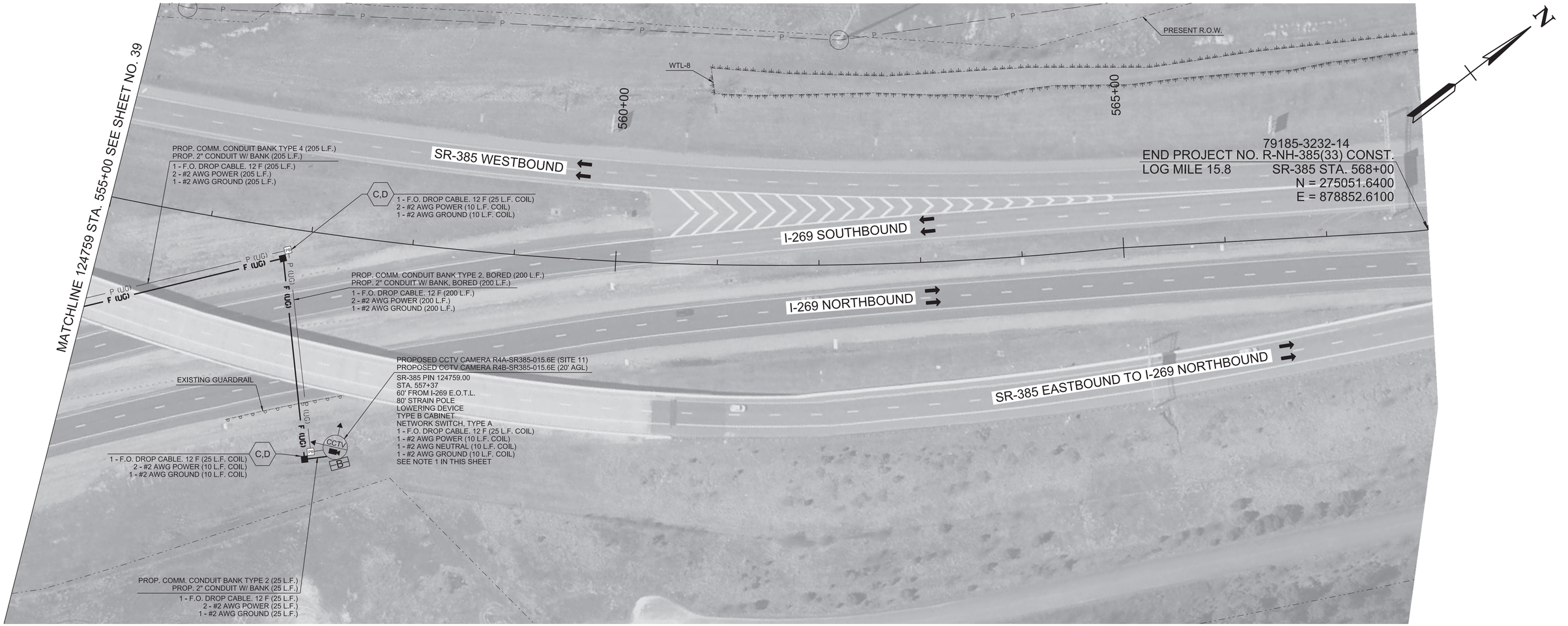
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ITS LAYOUT

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PIN 124759
STA. 542+00 TO 555+00

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TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	40
PS&E	2025	R-NH-385(33)	40



NOTES:

1. ARRANGEMENT OF DEVICES ON THIS SHEET IS GRAPHICAL. SEE DEVICE ORIENTATION SHEET FOR SPECIFIC ARRANGEMENT OF DEVICES.
2. UTILITY CROSSINGS ON STREAMS AT THE PERMITTED LOCATIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH TDOT STANDARDS AND NO WORK SHALL BE DONE IN FLOWING WATER. THE DISTURBED AREA SHALL BE RESTORED TO EXISTING CONDITIONS.
3. THE CONTRACTOR SHALL USE ANY MEASURES NECESSARY TO ENSURE THAT CONSTRUCTION AND CONSTRUCTION EQUIPMENT WILL NOT ENTER ANY PORTION OF WTL-8 AND THAT THE FEATURE'S SURROUNDING VEGETATION WILL NOT BE DISTURBED AND ARE PROTECTED FROM SEDIMENT AND OTHER POLLUTANTS EXCEPT AT THE PERMITTED LOCATION.

SEALED BY

MATTHEW J. DAVIS
REGISTERED ENGINEER
AGRICULTURE
No. 129748
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ITS LAYOUT

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STA. 555+00 TO 568+00

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TRAFFIC CONTROL NOTES

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	T-1
PS&E	2025	R-NH-385(33)	T-1

INTRODUCTION

THIS PROJECT SHALL BE CONSTRUCTED IN A MANNER TO LIMIT THE IMPACT ON TRAFFIC. MUCH OF THE WORK IN THIS PROJECT CAN BE PERFORMED BEYOND THE SHOULDERS OF THE ROADWAY. HOWEVER, SOME WORK WILL REQUIRE SHOULDER CLOSURES AND/OR LANE CLOSURES.

THIS PROJECT WILL CONSIST OF A LARGE NUMBER OF SHORT-TERM WORK LOCATIONS WITHIN THE OVERALL PROJECT LIMITS. THE CONTRACTOR WILL BE ALLOWED TO WORK AT DIFFERENT LOCATIONS WITHIN THE PROJECT LIMITS. THEREFORE, EACH WORK LOCATION SHOULD BE SIGNED AS A SEPARATE WORK ZONE. ADVANCE SIGNING SHOULD BE PLACED AS NEEDED FOR EACH WORK ZONE WHEN WORKING CONDITIONS ARE PRESENT. ADVANCE SIGNING IS NOT NEEDED FOR THE OVERALL PROJECT LIMITS.

FOR THE PURPOSE OF THIS PROJECT, ANY NECESSARY LANE CLOSURES WHICH ARE UNDER CONSTRUCTION DURING THE SAME TIME PERIOD AND ARE WITHIN ONE (1) MILE OF EACH OTHER AND IN THE SAME DIRECTION OF TRAFFIC SHALL BE TREATED AND SIGNED AS ONE WORK ZONE.

EXCEPT AS NOTED IN THIS PLAN AND THE SPECIFICATIONS, THE PHASING OF WORK IS AT THE CONTRACTOR'S DISCRETION. THE CONTRACTOR IS RESPONSIBLE FOR PHASING THE WORK IN A MANNER THAT FITS THE SCHEDULE AND ALSO LIMITS THE DURATION OF IMPACT ON TRAFFIC. THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN AT THE PRE-CONSTRUCTION MEETING WHICH OUTLINES THE PROPOSED PHASING, A SCHEDULE OF WORK, AND TRAFFIC CONTROL PROCEDURES THROUGHOUT THE PROJECT.

THIS TRAFFIC CONTROL PLAN IS NOT INTENDED TO SUPERCEDE OR RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF INSTALLING TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH THE CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND TDOT STANDARDS.

SPECIAL NOTES

(1) TRAFFIC SHALL BE MAINTAINED AND DEVICES INSTALLED IN ACCORDANCE WITH THE CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) PART 6, TDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND THE TENNESSEE STANDARD ROADWAY DRAWINGS

(2) ANY ADDITIONAL SIGNS DEEMED NECESSARY BY THE ENGINEER SHALL BE FURNISHED, INSTALLED AND PAID FOR UNDER THE APPROPRIATE BID ITEM.

(3) THE CONTRACTOR IS CAUTIONED THAT THERE MAY BE ACTIVE CONSTRUCTION PROJECTS IN THE AREA. IF SO, COORDINATION WILL BE REQUIRED WITH THE ADJOINING CONTRACTOR THROUGH THE ENGINEER TO AVOID CONFLICTS IN MAINTAINING TRAFFIC AND SIGNING.

(4) THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF ALL TEMPORARY CROSSOVERS, DETOURS, PAVEMENTS, PAVEMENT MARKINGS, SIGNS AND OTHER TRAFFIC CONTROL DEVICES CALLED FOR IN THESE PLANS AND ANY OTHER ITEMS THAT MAY BE CALLED FOR AT A LATER DATE, 24 HOURS A DAY, SEVEN DAYS A WEEK, UNTIL COMPLETION OF THE PROJECT TO ENSURE PROPER OPERATION THE CONTRACTOR SHALL ASSIGN A MINIMUM OF ONE PERSON AS TRAFFIC CONTROL REPRESENTATIVE AND THE ENGINEER SHALL ASSIGN A MINIMUM OF ONE PERSON AS TRAFFIC CONTROL REPRESENTATIVE. THESE PEOPLE SHALL BE IN CHARGE OF THE PROJECT FOR CONTINUOUS MAINTENANCE OF ALL TRAFFIC CONTROL DEVICES. THESE PEOPLE SHALL BE ON THE PROJECT AND BE CAPABLE OF BEING CONTACTED 24 HOURS A DAY, SEVEN DAYS A WEEK AND SHALL HAVE SUFFICIENT AUTHORITY TO ORDER WORK STOPPAGES AND IMMEDIATE REVISIONS TO SIGNING AND OTHER NECESSARY TRAFFIC CONTROL DEVICES AS APPROVED BY THE ENGINEER.

(5) THE CONTRACTOR SHALL PROVIDE PORTABLE BARRIER RAIL AND CRASH CUSHIONS AS CONDITIONS WARRANT.

(6) THE CONTRACTOR SHALL COVER ANY SIGNS, EITHER EXISTING, PERMANENT, OR TEMPORARY, WHICH DO NOT PROPERLY APPLY TO THE CURRENT TRAFFIC PHASING, AND SHALL MAINTAIN THE COVERING UNTIL THE SIGNS ARE APPLICABLE OR ARE REMOVED.

(7) THE CONTRACTOR SHALL RELOCATE ANY SIGNS, EITHER EXISTING OR TEMPORARY, AS NECESSARY TO PROPERLY APPLY TO THE CURRENT TRAFFIC PHASING. NO INDIVIDUAL PAYMENT SHALL BE MADE FOR THE TEMPORARY RELOCATION OF EXISTING SIGNS AS THESE WILL BE INCLUDED IN THE LUMP SUM PRICE BID FOR TRAFFIC CONTROL (712-01).

(8) THE CONTRACTORS' VEHICLES SHALL ALWAYS MOVE WITH AND NOT AGAINST THE FLOW OF TRAFFIC. VEHICLES SHALL LEAVE WORK AREAS IN A MANNER WHICH WILL NOT BE HAZARDOUS TO OR INTERFERE WITH NORMAL TRAFFIC. VEHICLES SHALL NOT PARK OR STOP EXCEPT WITHIN WORK AREAS DESIGNATED BY THE ENGINEER.

(9) TRAFFIC CONTROL DEVICES SHALL BE MAINTAINED IN PROPER CONDITION THROUGHOUT THE LENGTH OF THE PROJECT.

(10) ALL SIGNING FOR SHORT DURATION (LESS THAN 60 MINUTES) AND SHORT TERM (1-12 DAYLIGHT HOURS) WORK SHALL BE INSTALLED IN A TEMPORARY MANNER AND SHALL ONLY BE IN PLACE WHILE CONSTRUCTION ACTIVITIES ARE OCCURING. THIS TEMPORARY SIGNING CANNOT REMAIN IN PLACE OVERNIGHT UNLESS NIGHT WORK IS IN PROGRESS.

(11) THE CONTRACTOR SHALL PROVIDE PORTABLE CHANGEABLE MESSAGE SIGNS FOR TRAFFIC CONTROL PURPOSES. PLACEMENT AND MESSAGES DURING CONSTRUCTION SHALL BE APPROVED BY THE ENGINEER. IN THE EVENT OF MECHANICAL AND/OR ELECTRICAL FAILURE IN THE MESSAGE BOARD, IT SHALL BE REPAIRED OR REPLACED WITHIN TWENTY-FOUR (24) HOURS.

ROAD CLOSURES

MOMENTARY STOPPING OF TRAFFIC ON THE HIGHWAY WILL BE PERMITTED DURING THE SIGN STRUCTURE INSTALLATIONS. THE FOLLOWING "SPECIAL" SIGNS SHALL BE ERECTED IN THE DIRECTION AFFECTED BY THESE OPERATIONS.

(1) "BE PREPARED TO STOP" PLACED ON THE INSIDE AND OUTSIDE SHOULDERS AT LOCATIONS IN ADVANCE OF STRUCTURE AS DIRECTED BY THE ENGINEER.

(2) PORTABLE CHANGEABLE MESSAGE SIGNS SHALL ALSO BE USED PER TDOT STD. DWG. T-WZ-61.

TWO (2) PILOT VEHICLES SHALL BE PRESENT DURING THESE ACTIVITES TO GRADUALLY SLOW TRAFFIC TO A STOP. ADDITIONAL LAW ENFORCEMENT VEHICLES MAY BE IN POSITION TO HALT TRAFFIC AT RAMP INTERSECTIONS WHEN NECESSARY. CLOSURES SHALL BE LIMITED TO 20 MINUTE MAXIMUM PERIODS WITHIN ANY ONE HOUR PERIOD AT NIGHT BETWEEN 7:00 PM AND 6:00 AM, OR ON SUNDAY MORNINGS UP UNTIL 9:00 AM. THE NECESSARY LIGHTING FOR NIGHTIME WORK SHALL BE INCLUDED IN THE LUMP SUM BID ITEM FOR TRAFFIC CONTROL.

ROAD CLOSURE MESSAGE BOARDS NEED TO BE IN PLACE AS SOON AS THE ENGINEER APPROVES THE CLOSURE. REQUEST MUST BE MADE AT LEAST ONE WEEK BEFORE THE CLOSURE.

MESSAGE BOARDS SHALL SAY THE FOLLOWING ON THE DAYS LEADING UP TO THE CLOSURE:

ONE WEEK PRIOR TO PACING OPERATION:

"EXPECT DELAYS ON 00/00/00 X AM – X PM"

DURING PACING OPERATION:

"SLOW STOPPED TRAFFIC X MILES AHEAD" AND "TRAFFIC STOPPED AHEAD STOPPAGE XX MIN MAX"

BOARDS SHALL BE PLACED BEFORE THE PREVIOUS EXIT TO ALLOW MOTORISTS TO EXIT.

LANE CLOSURES

LANE CLOSURES WILL BE ALLOWED WHENEVER ENCROACHMENT IN TO THE TRAVEL LANE (i.e. WITHIN TWO FEET OF TRAVEL LANE) IS NECESSARY. LANE CLOSURES SHALL BE IMPLEMENTED IN ACCORDANCE WITH THE APPROPRIATE TRAFFIC CONTROL PLAN DETAIL OR TDOT STANDARD DRAWING.

(1) LANE CLOSURES SHALL ONLY OCCUR DURING THE HOURS OF 7 PM TO 6 AM EXCEPT AS NOTED FOR THE DMS INSTALLATION.

(2) THE CONTRACTOR SHALL NOT BE ALLOWED TO INTERRUPT TRAFFIC FLOW ON ANY INTERSTATE AND SHALL MAINTAIN THE EXISTING NUMBER OF LANES OF TRAFFIC IN EACH DIRECTION OF THE FOLLOWING DATES:

a. OFFICIAL STATE HOLIDAYS (SEE TDOT STANDARD SPECIFICATIONS FOR SPECIFIED DAYS).

b. FRIDAY 6:00 AM UNTIL TUESDAY 7:00 PM IF A STATE HOLIDAY OCCURS OR IS OBSERVED ON A MONDAY.

c. THURSDAY 6:00 AM UNTIL MONDAY 7:00 PM IF A HOLIDAY IS OBSERVED ON A FRIDAY.

d. OTHER "SPECIAL EVENT" DAYS AS DIRECTED BY THE ENGINEER.

(3) ALL LANE CLOSURES SHALL BE APPROVED BY THE ENGINEER.

(4) THE CONTRACTOR SHALL SUBMIT ANY LANE CLOSURE REQUESTS FOR A TDOT APPROVAL PRIOR TO THE SCHEDULED REGIONAL LANE CLOSURE MEETING THE WEEK BEFORE ANY LANE CLOSURE IS NEEDED.

SHOULDER CLOSURES

IN AREAS OF CONSTRUCTION WITHIN FIFTEEN (15) FEET OF THE EDGE OF TRAVEL LANE, THE SHOULDER SHALL BE CLOSED.

(1) EXCEPT FOR THE DMS WORK DESCRIBED IN THE FOLLOWING SECTION, NO ADDITIONAL SHOULDER CLOSURES ARE ALLOWED IN EITHER DIRECTION DURING THE AM PEAK (6-9 AM) AND PM PEAK (3-7 PM).

TRAFFIC CONTROL DURING DMS SIGN WORK

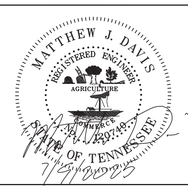
THE DYNAMIC MESSAGE SIGNS WILL REQUIRE THE CONSTRUCTION OF SIGN FOOTINGS IN THE MEDIAN AND SHOULDER AREAS. THE CONSTRUCTION OF THESE FOOTINGS AND THE CONSTRUCTION OF THE MEDIAN BARRIER MAY REQUIRE INTERMEDIATE TERM LANE CLOSURES. ALL LANE CLOSURES SHALL CONFORM TO THE APPROPRIATE TDOT STD. DWG. AND THE CURRENT EDITION OF THE MUTCD. IN ADDITION, THE FOLLOWING REQUIREMENTS MUST BE MET:

(1) ALL MEDIAN WORK WHICH REQUIRES AN INTERIOR LANE CLOSURE SHALL BE PERFORMED DURING WEEKENDS 7:00 PM FRIDAY NIGHT TO 6:00 AM MONDAY MORNING. ALL LANES MUST BE REOPENED BY 6:00 AM MONDAY MORNING, A FULL SHOULDER CLOSURE WITH PORTABLE BARRIER RAIL SHALL BE IN PLACE BY 6:00 AM MONDAY MORNING. ALL FOUNDATION AND MEDIAN WORK AT A PARTICULAR LOCATION MUST BE COMPLETED IN NO MORE THAN 4 CONSECUTIVE WEEKENDS.

(2) MOMENTARY STOPPING OF TRAFFIC WILL BE PERMITTED DURING SIGN INSTALLATIONS AS NOTED PREVIOUSLY.

OTHER DMS FOUNDATIONS: ALL OTHER SIGN FOUNDATIONS NOT INSTALLED IN THE MEDIAN SHALL BE CONSTRUCTED IN A MANNER TO MINIMIZE THE DISRUPTION OF TRAFFIC. SHORT TERM SINGLE LANE CLOSURES WILL BE PERMITTED AS DIRECTED ABOVE; HOWEVER, THE FOOTINGS SHOULD BE INSTALLED UTILIZING ONLY A SHOULDER CLOSURE WHERE POSSIBLE. ALL LANE CLOSURES SHALL CONFORM TO ALL TDOT STANDARD DRAWINGS AND THE CURRENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

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DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL NOTES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	T-2
PS&E	2025	R-NH-385(33)	T-2

TRAFFIC CONTROL QUANTITIES

FOOTNOTE	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	SIZE	ITEM NO. 712-06 (S.F.)	M.U.T.C.D. NO.	REMARKS
	712-01	TRAFFIC CONTROL	L.S.	1				
(1)	712-02.02	INTERCONNECTED PORTABLE BARRIER RAIL	L.F.	2100				
	712-02.60	TEMPORARY WORKZONE CRASH CUSHION (MASH TL-3)	EACH	7				
	712-04.01	FLEXIBLE DRUMS (CHANNELIZING)	EACH	200				
	712-04.50	BARRIER RAIL DELINEATOR	EACH	42				
	712-05.03	WARNING LIGHTS (TYPE C)	EACH	200				
(2)	712-06	SIGNS (END ROAD WORK)	S.F.	14	48" x 24"	112	G20-2	TO BE USED AS NEEDED
(2)	712-06	SIGNS (BE PREPARED TO STOP)	S.F.	4	48" x 48"	64	W3-4	TO BE USED AS NEEDED
(2)	712-06	SIGNS (LEFT LANE ENDS)	S.F.	4	48" x 48"	64	W4-2L	TO BE USED AS NEEDED
(2)	712-06	SIGNS (RIGHT LANE ENDS)	S.F.	4	48" x 48"	64	W4-2R	TO BE USED AS NEEDED
(2)	712-06	SIGNS (ROAD WORK AHEAD)	S.F.	18	48" x 48"	288	W20-1	TO BE USED AS NEEDED
(2)	712-06	SIGNS (ROAD WORK 1 MILE)	S.F.	6	48" x 48"	96	W20-1	TO BE USED AS NEEDED
(2)	712-06	SIGNS (ROAD WORK 1/2 MILE)	S.F.	6	48" x 48"	96	W20-1	TO BE USED AS NEEDED
(2)	712-06	SIGNS (LEFT LANE CLOSED 1/2 MILE)	S.F.	4	48" x 48"	64	W20-5L	TO BE USED AS NEEDED
(2)	712-06	SIGNS (RIGHT LANE CLOSED 1/2 MILE)	S.F.	4	48" x 48"	64	W20-5R	TO BE USED AS NEEDED
(2)	712-06	SIGNS (LEFT LANE CLOSED 1500 FEET)	S.F.	4	48" x 48"	64	W20-5L	TO BE USED AS NEEDED
(2)	712-06	SIGNS (RIGHT LANE CLOSED 1500 FEET)	S.F.	4	48" x 48"	64	W20-5R	TO BE USED AS NEEDED
(2)	712-06	SIGNS (LEFT SHOULDER CLOSED 1500 FEET)	S.F.	4	48" x 48"	64	W21-5L	TO BE USED AS NEEDED
(2)	712-06	SIGNS (RIGHT SHOULDER CLOSED 1500 FEET)	S.F.	4	48" x 48"	64	W21-5R	TO BE USED AS NEEDED
(2)	712-06	SIGNS (LEFT SHOULDER CLOSED)	S.F.	4	48" x 48"	64	W21-5L	TO BE USED AS NEEDED
(2)	712-06	SIGNS (RIGHT SHOULDER CLOSED)	S.F.	4	48" x 48"	64	W21-5R	TO BE USED AS NEEDED
	712-08.03	ARROW BOARD (TYPE C)	EACH	2				
	712-08.12	QUEUE PROTECTION TRUCK	DAY	6				
	713-16.01	CHANGEABLE MESSAGE SIGN UNIT	EACH	3				
		TOTAL 712-06, SIGNS (CONSTRUCTION), QUANTITY (S.F.)				**1296**		

FOOTNOTES:

(1) ALL COSTS ASSOCIATED WITH INSTALLING, STORING, AND RE-INSTALLING ALL BARRIER RAIL DEVICES DURING AND BETWEEN DIFFERENT TRAFFIC CONTROL PHASES WILL BE INCLUDED IN THE BID PRICE OF THIS ITEM. DURING THE TIME BETWEEN DIFFERENT TRAFFIC CONTROL PHASES, THE CONTRACTOR SHALL STORE ALL BARRIER RAIL DEVICES IN A PROPER LOCATION THAT WILL NOT INTERFERE WITH THE TRAFFIC FLOW AND CLEAR ZONES OF THE ROADWAY. ALL WORK MUST MEET THE FULL APPROVAL OF THE TDOT ENGINEER. THE QUANTITIES SHOWN FOR THIS ITEM ARE ALL THAT WILL BE PAID FOR UNDER THIS LINE ITEM. ANY ADDITIONAL REQUIRED QUANTITIES FOR THIS ITEM WILL BE INCLUDED IN THE CONTRACTOR'S BID UNDER ITEM 712-01 TRAFFIC CONTROL. NO ADJUSTMENTS WILL BE MADE FOR OVERRUNS OF THIS ITEM.

(2) RELOCATION OF SIGNS WILL BE PAID FOR UNDER 712-01.

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TRAFFIC CONTROL TABULATED QUANTITIES

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ITS LAYOUT SHEET NUMBER	STATION	DEVICE TYPE(S)	DEVICE ID(S)	APPLICABLE TDOT STD. DWG. / MUTCD TYPICAL APPLICATION / SITE SPECIFIC TRAFFIC CONTROL PLAN
10	171+59	CCTV CCTV RDS	R4A-SR385-008.3W R4B-SR385-008.3W R4G-SR385-008.3W	TDOT STD. DWG. T-WZ-18 MUTCD TYPICAL APPLICATION 1 SEE SHEET T-5 IN THIS PLAN SET
15	231+79	CCTV RDS ESS	R4A-SR385-009.4E R4G-SR385-009.4E R4Y-SR385-009.4E	TDOT STD. DWG. T-WZ-11 TDOT STD. DWG. T-WZ-18 MUTCD TYPICAL APPLICATION 1
19	287+45	CCTV CCTV RDS	R4A-SR385-010.4E R4B-SR385-010.4E R4G-SR385-010.4E	TDOT STD. DWG. T-WZ-18 MUTCD TYPICAL APPLICATION 1 SEE SHEET T-6 IN THIS PLAN SET
23	338+52	DMS	R4E-SR385-011.4W	TDOT STD. DWG. T-WZ-11 TDOT STD. DWG. T-WZ-15 TDOT STD. DWG. T-WZ-18 TDOT STD. DWG. T-WZ-61 MUTCD TYPICAL APPLICATION 1
23	340+57	CCTV RDS ESS	R4A-SR385-011.5W R4G-SR385-011.5W R4Y-SR385-011.5W	TDOT STD. DWG. T-WZ-11 TDOT STD. DWG. T-WZ-18 MUTCD TYPICAL APPLICATION 1
27	393+40	CCTV CCTV	R4A-SR385-012.5W R4B-SR385-012.5W	TDOT STD. DWG. T-WZ-18 MUTCD TYPICAL APPLICATION 1
30	427+39	DMS	R4E-SR385-013.1W	TDOT STD. DWG. T-WZ-11 TDOT STD. DWG. T-WZ-15 TDOT STD. DWG. T-WZ-18 TDOT STD. DWG. T-WZ-61 MUTCD TYPICAL APPLICATION 1
31	439+63	CCTV RDS ESS	R4A-SR385-013.4E R4G-SR385-013.4E R4Y-SR385-013.4E	TDOT STD. DWG. T-WZ-18 MUTCD TYPICAL APPLICATION 1
31	443+24	DMS	R4E-SR385-013.4E	TDOT STD. DWG. T-WZ-11 TDOT STD. DWG. T-WZ-15 TDOT STD. DWG. T-WZ-18 TDOT STD. DWG. T-WZ-61 MUTCD TYPICAL APPLICATION 1
33	471+50	CCTV RDS	R4A-SR385-014.0E R4G-SR385-014.0E	TDOT STD. DWG. T-WZ-11 TDOT STD. DWG. T-WZ-18 MUTCD TYPICAL APPLICATION 1
35	500+96	CCTV CCTV RDS	R4A-SR385-014.6E R4B-SR385-014.6E R4G-SR385-014.6E	TDOT STD. DWG. T-WZ-18 MUTCD TYPICAL APPLICATION 1 SEE SHEET T-7 IN THIS PLAN SET
39	543+12	CCTV CCTV ESS	R4A-SR385-015.3E R4B-SR385-015.3E R4Y-SR385-015.3E	TDOT STD. DWG. T-WZ-18 MUTCD TYPICAL APPLICATION 1
40	557+37	CCTV CCTV	R4A-SR385-015.6E R4B-SR385-015.6E	TDOT STD. DWG. T-WZ-18 MUTCD TYPICAL APPLICATION 1
GENERAL CONDUIT / PULL BOX INSTALLATION				TDOT STD. DWG. T-WZ-18 MUTCD TYPICAL APPLICATION 1

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	T-3
PS&E	2025	R-NH-385(33)	T-3

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TRAFFIC CONTROL SUMMARY TABLE

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TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	T-4
PS&E	2025	R-NH-385(33)	T-4

N

FOREST HILL IRENE RD

R4A-SR385-008.3W (CCTV)
R4B-SR385-008.3W (CCTV)
R4G-SR385-008.3W (RDS)
APPLICABLE TRAFFIC CONTROL:
T-WZ-18
MUTCD TA 1
SEE SHEET T-5 IN THIS PLAN SET

HOUSTON LEVEE RD

R4E-SR385-011.4W (DMS)
R4A-SR385-011.5W (CCTV)
R4G-SR385-011.5W (RDS)
R4Y-SR385-011.5W (ESS)
APPLICABLE TRAFFIC CONTROL:
T-WZ-11
T-WZ-15
T-WZ-18
T-WZ-61
MUTCD TA 1

BYHALIA RD

R4A-SR385-012.5W (CCTV)
R4B-SR385-012.5W (CCTV)
APPLICABLE TRAFFIC CONTROL:
T-WZ-18
MUTCD TA 1

R4E-SR385-013.1W (DMS)
APPLICABLE TRAFFIC CONTROL:
T-WZ-11
T-WZ-15
T-WZ-18
T-WZ-61
MUTCD TA 1

R4A-SR385-015.6E (CCTV)
R4B-SR385-015.6E (CCTV)
APPLICABLE TRAFFIC CONTROL:
T-WZ-18
MUTCD TA 1

SR-385

R4A-SR385-009.4E (CCTV)
R4G-SR385-009.4E (RDS)
R4Y-SR385-009.4E (ESS)
APPLICABLE TRAFFIC CONTROL:
T-WZ-11
T-WZ-18
MUTCD TA 1

R4A-SR385-010.4E (CCTV)
R4B-SR385-010.4E (CCTV)
R4G-SR385-010.4E (RDS)
APPLICABLE TRAFFIC CONTROL:
T-WZ-18
MUTCD TA 1
SEE SHEET T-6 IN THIS PLAN SET

R4A-SR385-013.4E (CCTV)
R4G-SR385-013.4E (RDS)
R4Y-SR385-013.4E (ESS)
R4E-SR385-013.4E (DMS)
APPLICABLE TRAFFIC CONTROL:
T-WZ-11
T-WZ-15
T-WZ-18
T-WZ-61
MUTCD TA

R4A-SR385-014.0E (CCTV)
R4G-SR385-014.0E (RDS)
APPLICABLE TRAFFIC CONTROL:
T-WZ-11
T-WZ-18
MUTCD TA 1

R4A-SR385-014.6E (CCTV)
R4B-SR385-014.6E (CCTV)
R4G-SR385-014.6E (RDS)
APPLICABLE TRAFFIC CONTROL:
T-WZ-18
MUTCD TA 1
SEE SHEET T-7 IN THIS PLAN SET

R4A-SR385-015.3E (CCTV)
R4B-SR385-015.3E (CCTV)
R4Y-SR385-015.3E (ESS)
APPLICABLE TRAFFIC CONTROL:
T-WZ-18
MUTCD TA 1

I-269

NOTE:

1. THE ABOVE MAP INDICATES TRAFFIC CONTROL APPLICATIONS FOR INDIVIDUAL DEVICE WORK SITES. FOR WORK BETWEEN SITES, SUCH AS CONDUIT, FIBER OPTIC CABLE, AND PULL BOX INSTALLATION, REFER TO THE FOLLOWING:

   -T-WZ-18
   -MUTCD TA 1

TRAFFIC CONTROL LEGEND	
SYMBOL	ITEM
▨	WORK ZONE

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ENGINEERING
STATE OF TENNESSEE
7/31/2025

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DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL OVERVIEW MAP

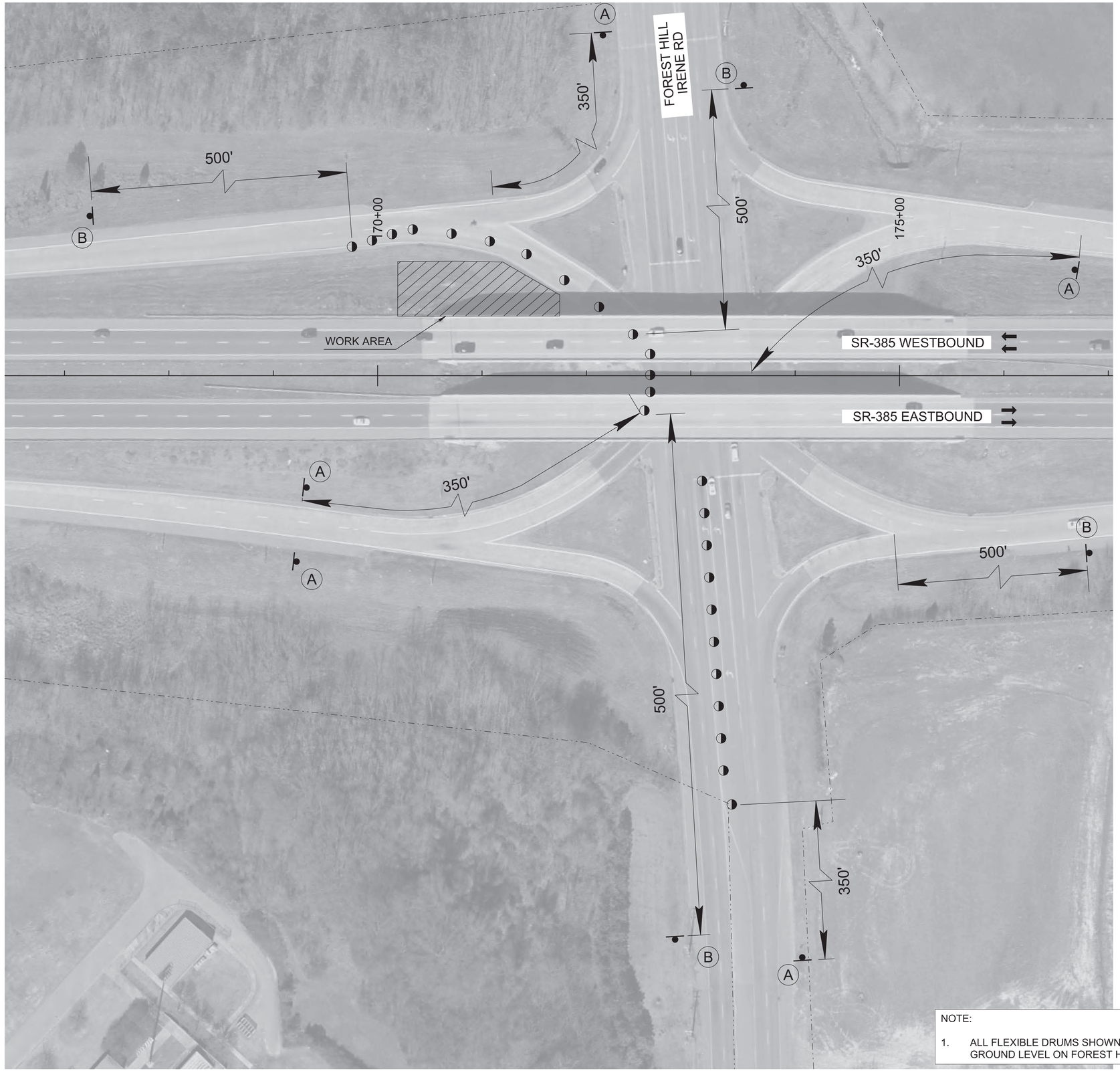
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TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	T-5
PS&E	2025	R-NH-385(33)	T-5

N

N.T.S



ROAD WORK AHEAD

A
W20-1
48"x 48"

END ROAD WORK

B
G20-2
48"x 24"

TRAFFIC CONTROL LEGEND	
SYMBOL	ITEM
▨	WORK ZONE
◑	FLEXIBLE DRUMS (CHANNELIZING)
⊢	SIGN (CONSTRUCTION)

NOTE:

1. ALL FLEXIBLE DRUMS SHOWN ARE INTENDED TO BE AT GROUND LEVEL ON FOREST HILL IRENE RD.

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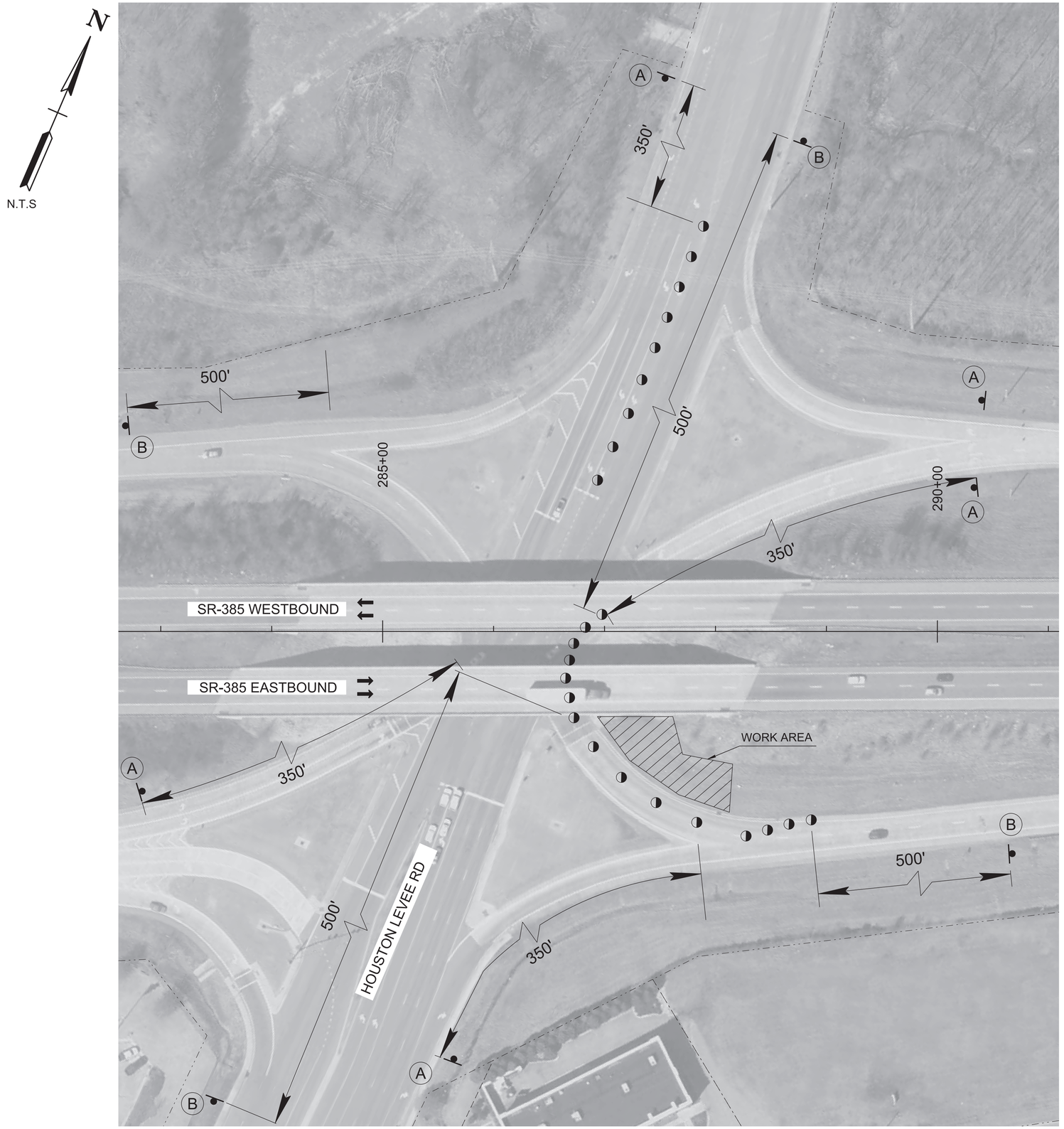
MATTHEW J. DAVIS
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AGRICULTURE
NUMBER 127748
STATE OF TENNESSEE
7/9/2025

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TRAFFIC CONTROL FOR SITE 1 CCTV INSTALLATION STA. 171+59

7/9/2025 9:25:38 AM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	T-6
PS&E	2025	R-NH-385(33)	T-6



ROAD WORK AHEAD

A
W20-1
48"x 48"

END ROAD WORK

B
G20-2
48"x 24"

TRAFFIC CONTROL LEGEND	
SYMBOL	ITEM
	WORK ZONE
	FLEXIBLE DRUMS (CHANNELIZING)
	SIGN (CONSTRUCTION)

NOTE:

1. ALL FLEXIBLE DRUMS SHOWN ARE INTENDED TO BE AT GROUND LEVEL ON HOUSTON LEVEE RD.

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PROJECT
2007-10
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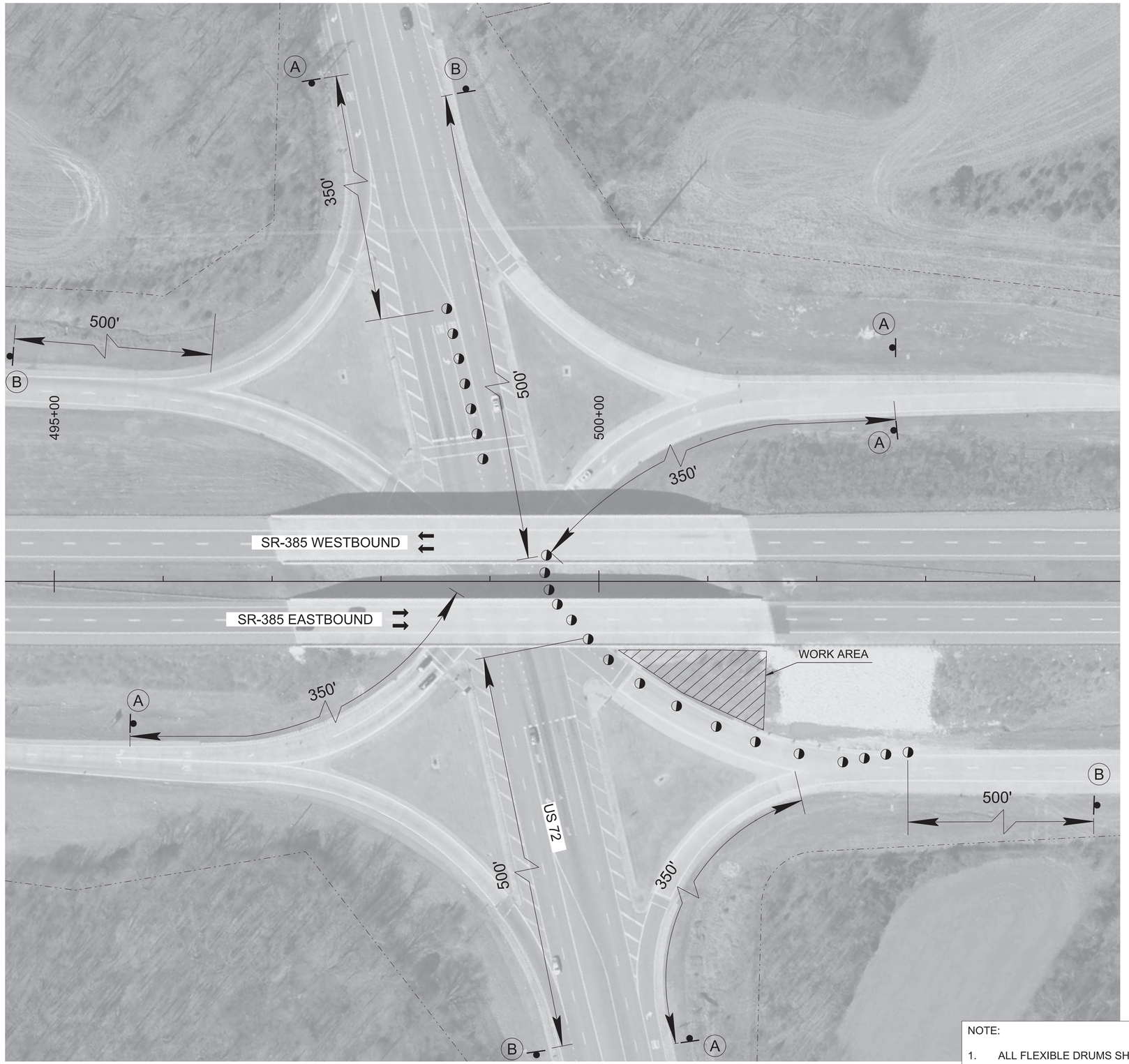
TRAFFIC CONTROL FOR SITE 3 CCTV INSTALLATION STA. 287+45

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TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	T-7
PS&E	2025	R-NH-385(33)	T-7

N

N.T.S



ROAD WORK AHEAD

A
W20-1
48"x 48"

END ROAD WORK

B
G20-2
48"x 24"

TRAFFIC CONTROL LEGEND	
SYMBOL	ITEM
	WORK ZONE
	FLEXIBLE DRUMS (CHANNELIZING)
	SIGN (CONSTRUCTION)

NOTE:

1. ALL FLEXIBLE DRUMS SHOWN ARE INTENDED TO BE AT GROUND LEVEL ON US 72.

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TRAFFIC CONTROL FOR SITE 9 CCTV INSTALLATION STA. 500+96

7/9/2025 9:27:25 AM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	N/A
PS&E	2025	R-NH-385(33)	G-1

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GEOTECHNICAL BORING LAYOUT

SR-385
SCALE 1" = 50'
PIN 124759
STA. 100+00 TO 113+00

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TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	N/A
PS&E	2025	R-NH-385(33)	G-2



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GEOTECHNICAL BORING LAYOUT

SR-385
SCALE 1" = 50'
PIN 124759
STA. 113+00 TO 126+00

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TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	N/A
PS&E	2025	R-NH-385(33)	G-3



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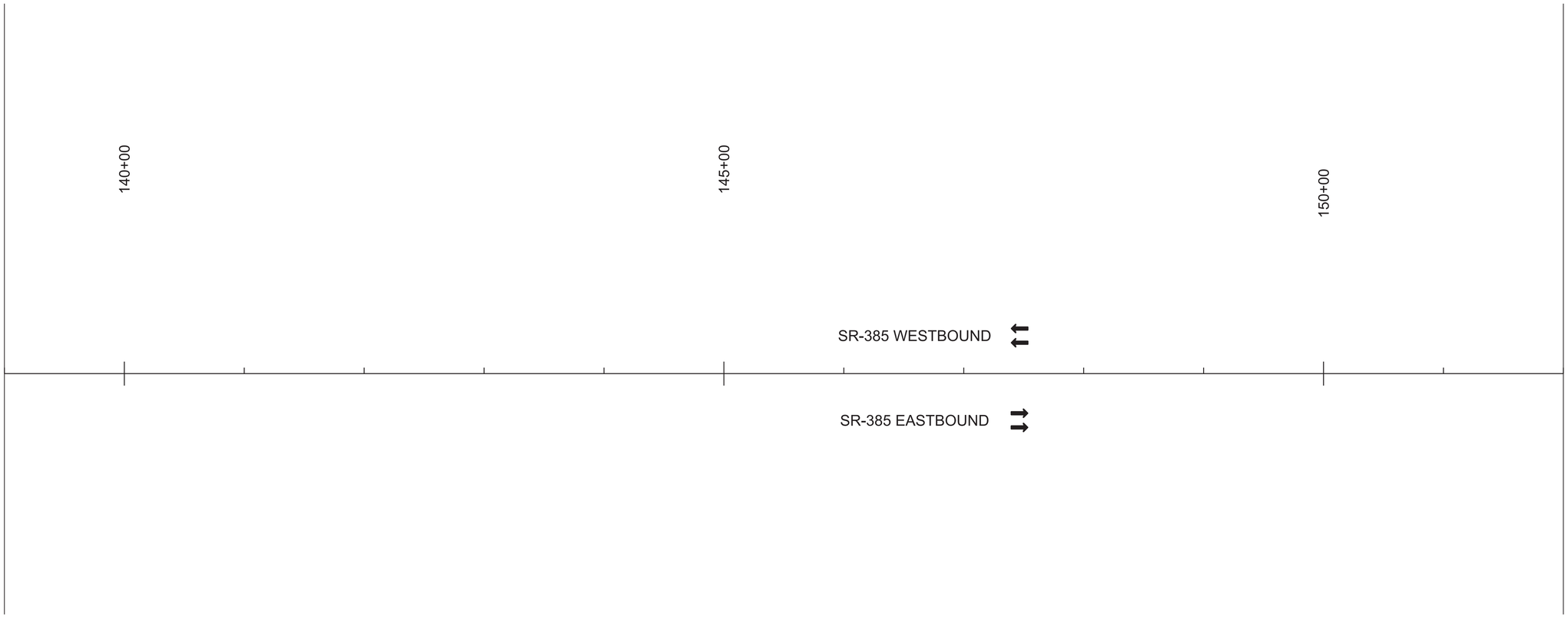
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TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	N/A
PS&E	2025	R-NH-385(33)	G-4





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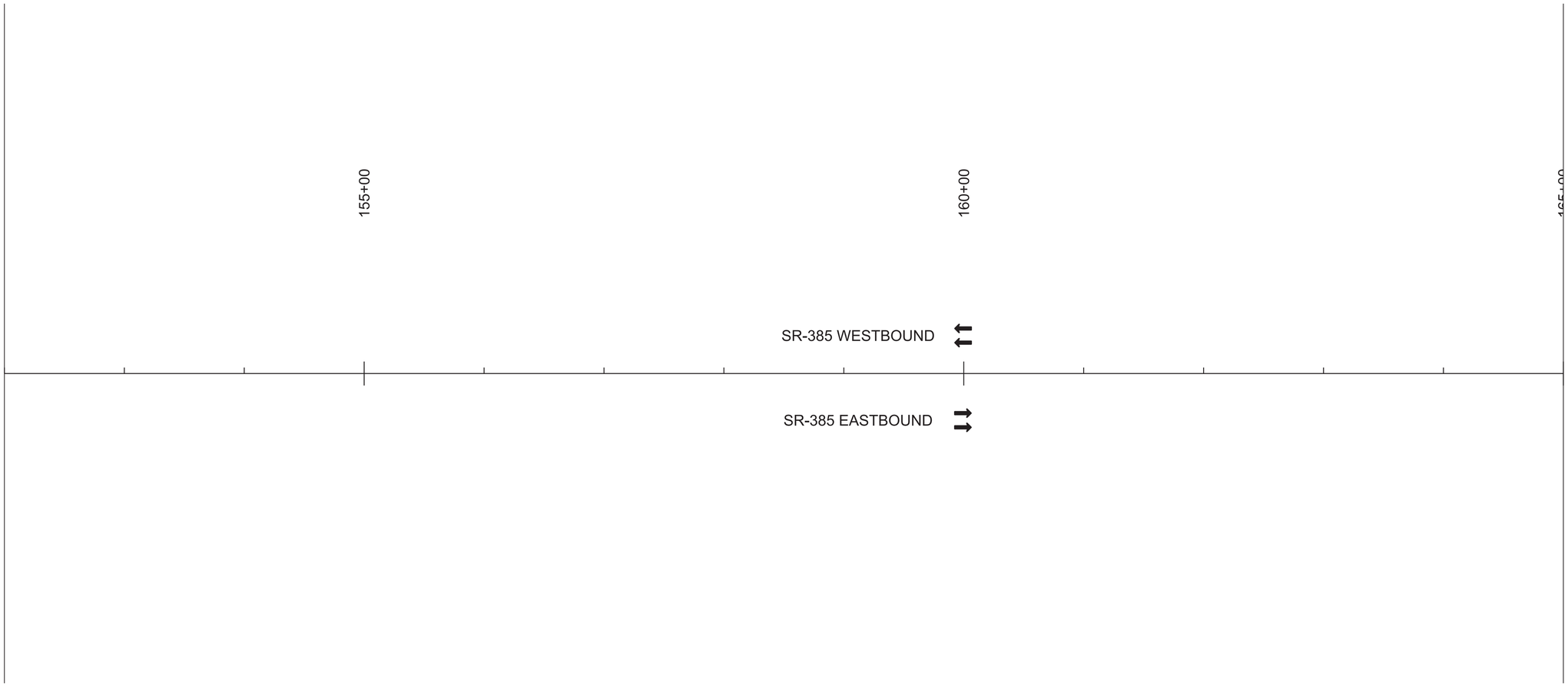
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GEOTECHNICAL BORING LAYOUT

SR-385
SCALE 1" = 50'
PIN 124759
STA. 139+00 TO 152+00

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TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	N/A
PS&E	2025	R-NH-385(33)	G-5



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7/9/2025

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GEOTECHNICAL BORING LAYOUT

SR-385
SCALE 1" = 50'
PIN 124759
STA. 152+00 TO 165+00

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TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	N/A
PS&E	2025	R-NH-385(33)	G-6



MATCHLINE 124759 STA. 165+00 SEE SHEET NO. G-5

165+00

170+00

175+00

MATCHLINE 124759 STA. 178+00 SEE SHEET NO. G-7

CCTV-1 (50.0')

SR-385 WESTBOUND

SR-385 EASTBOUND

FOREST HILL IRENE RD

LEGEND

CCTV-1 (50.0') — BORING LOCATION TERMINATION DEPTH (NO REFUSAL)

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No. 120955
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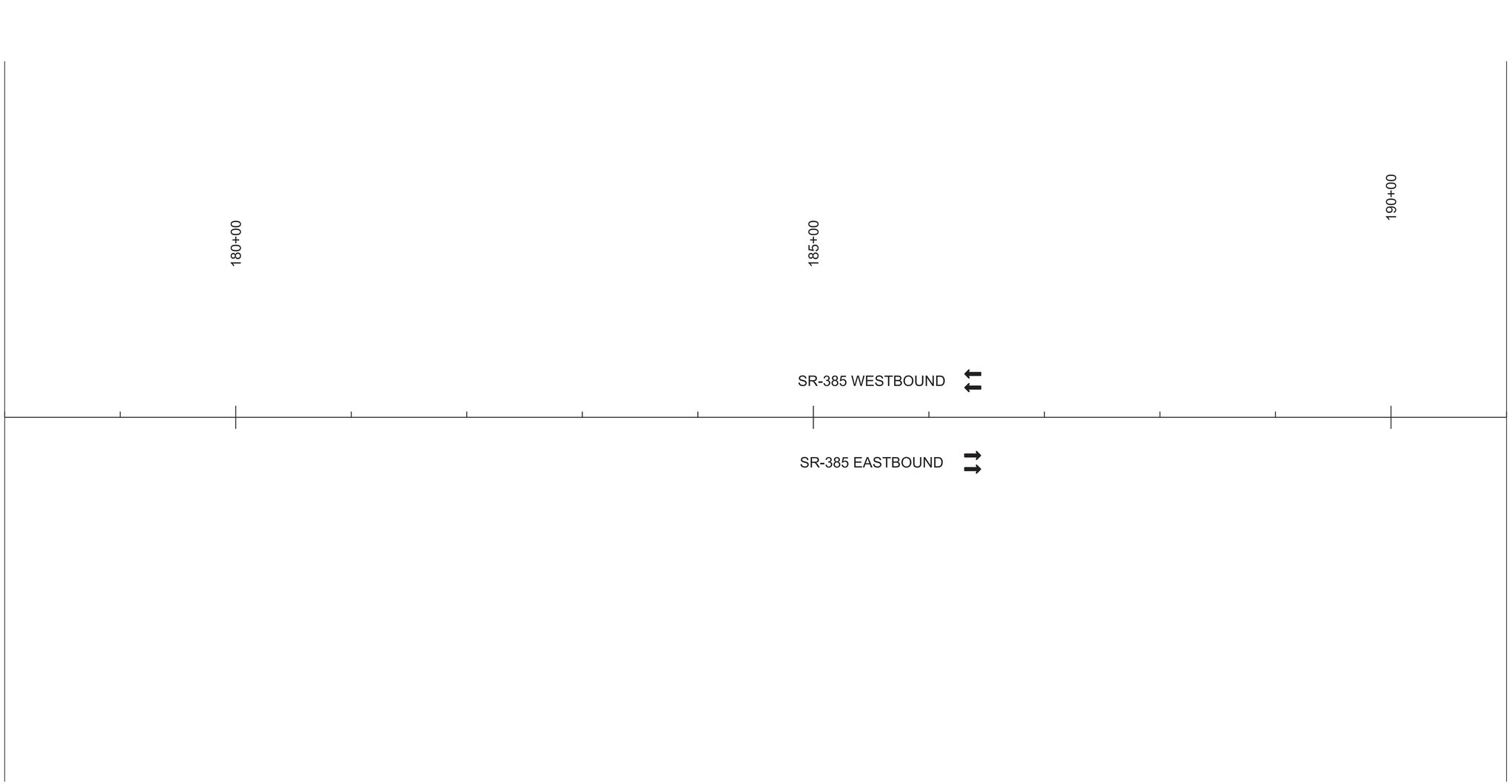
STATE OF TENNESSEE
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GEOTECHNICAL BORING LAYOUT

SR-385
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STA. 165+00 TO 178+00

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TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	N/A
PS&E	2025	R-NH-385(33)	G-7





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GEOTECHNICAL BORING LAYOUT

SR-385
SCALE 1" = 50'
PIN 124759
STA. 178+00 TO 191+00

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TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	N/A
PS&E	2025	R-NH-385(33)	G-8





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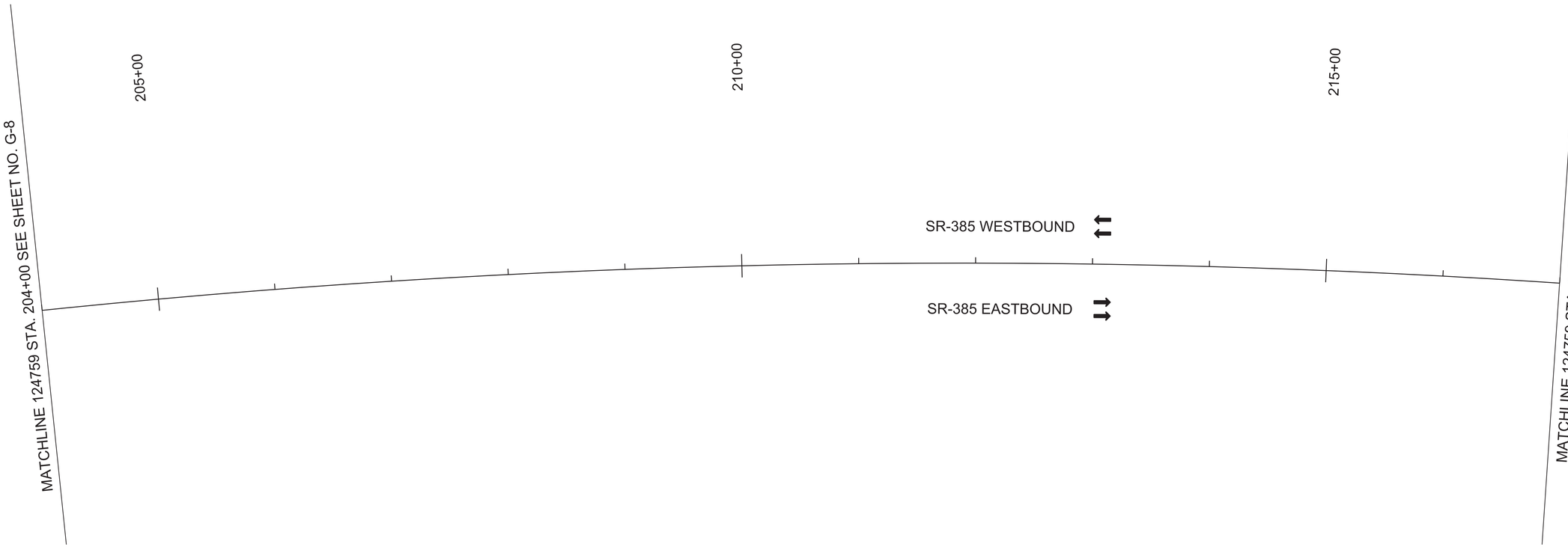
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GEOTECHNICAL BORING LAYOUT

SR-385
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STA. 191+00 TO 204+00

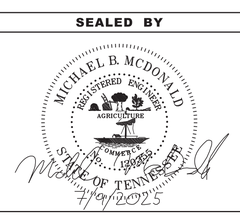
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TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	N/A
PS&E	2025	R-NH-385(33)	G-9





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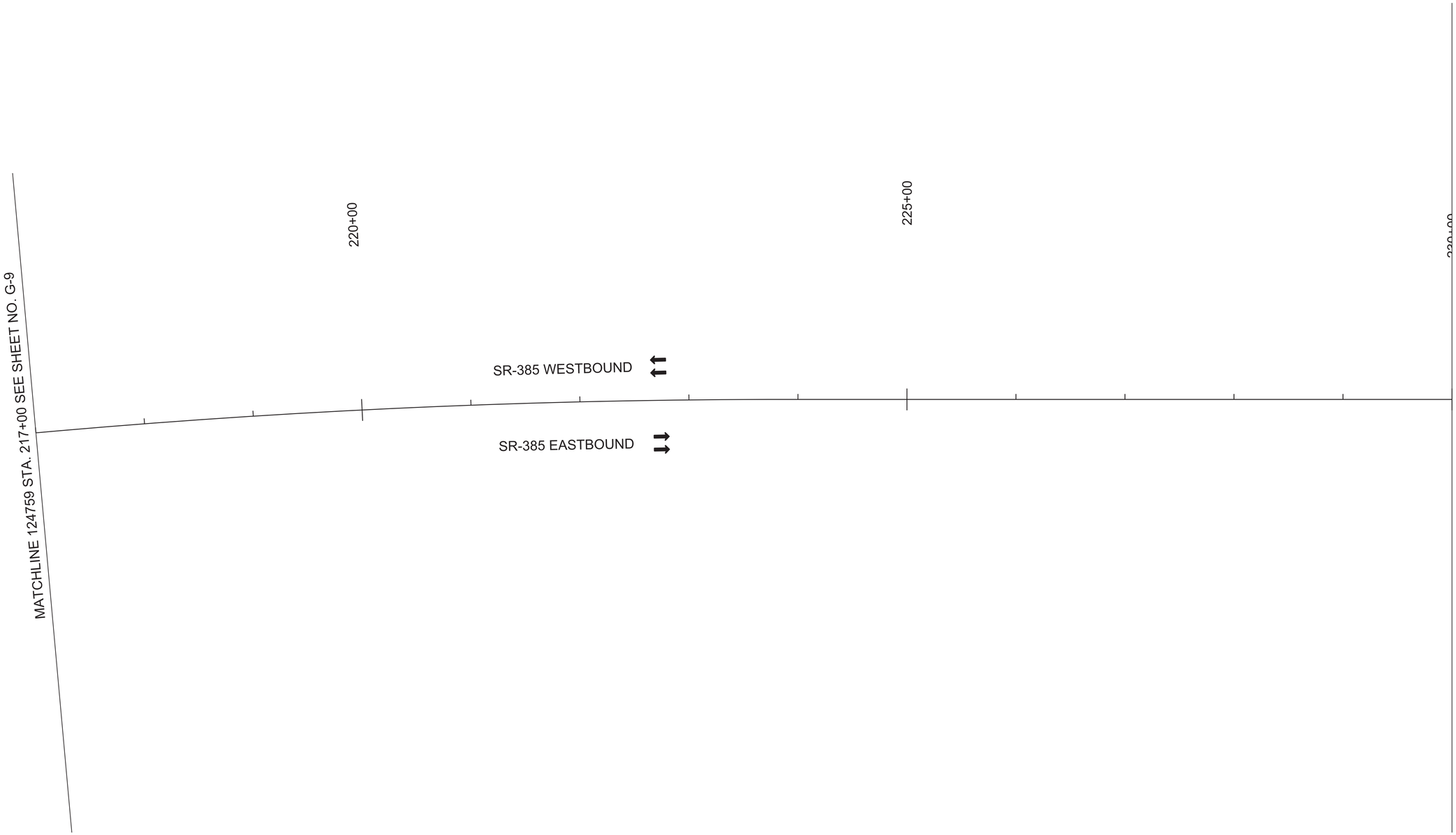
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DEPARTMENT OF TRANSPORTATION

GEOTECHNICAL BORING LAYOUT

SR-385
SCALE 1" = 50'
PIN 124759
STA. 204+00 TO 217+00

7/9/2025 9:28:00 AM
\\US0229-PPFSS01\work_group\2018\active\201802915\201802915.204\03 disciplines\lits\drawing\geotechnical\G-9.dgn

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	N/A
PS&E	2025	R-NH-385(33)	G-10





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GEOTECHNICAL BORING LAYOUT

SR-385
SCALE 1" = 50'
PIN 124759
STA. 217+00 TO 230+00

7/9/2025 9:28:00 AM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	N/A
PS&E	2025	R-NH-385(33)	G-11



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REGISTERED ENGINEER
AGRICULTURE
No. 128855
STATE OF TENNESSEE
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LEGEND

CCTV-2 (52.0') — BORING LOCATION TERMINATION DEPTH (NO REFUSAL)

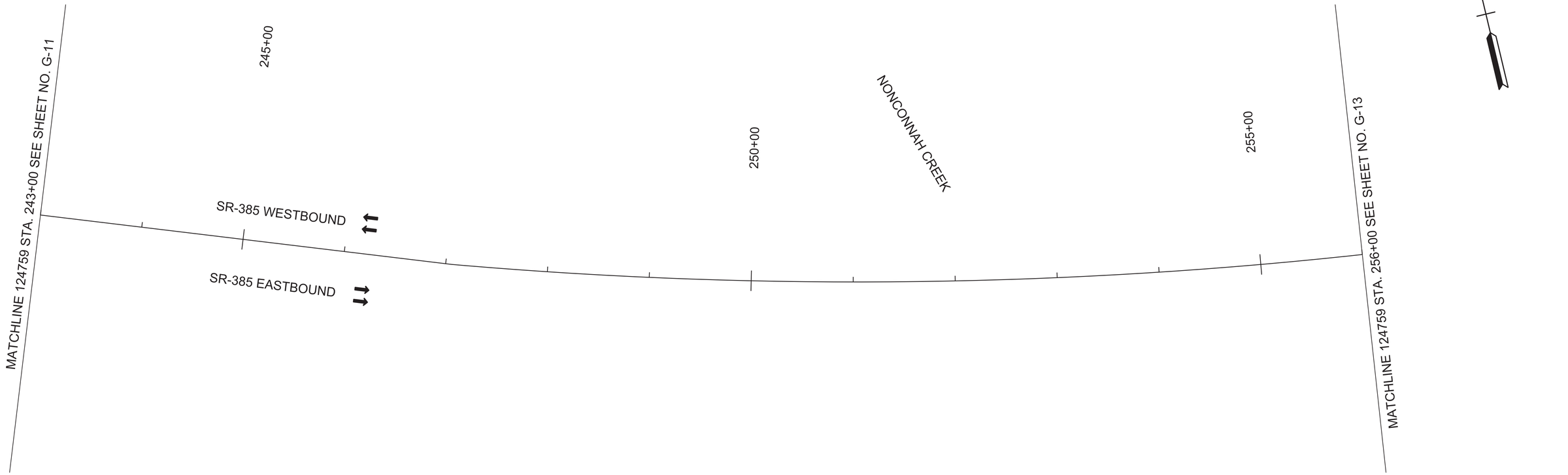
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GEOTECHNICAL BORING LAYOUT

SR-385
SCALE 1" = 50'
PIN 124759
STA. 230+00 TO 243+00

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TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	N/A
PS&E	2025	R-NH-385(33)	G-12





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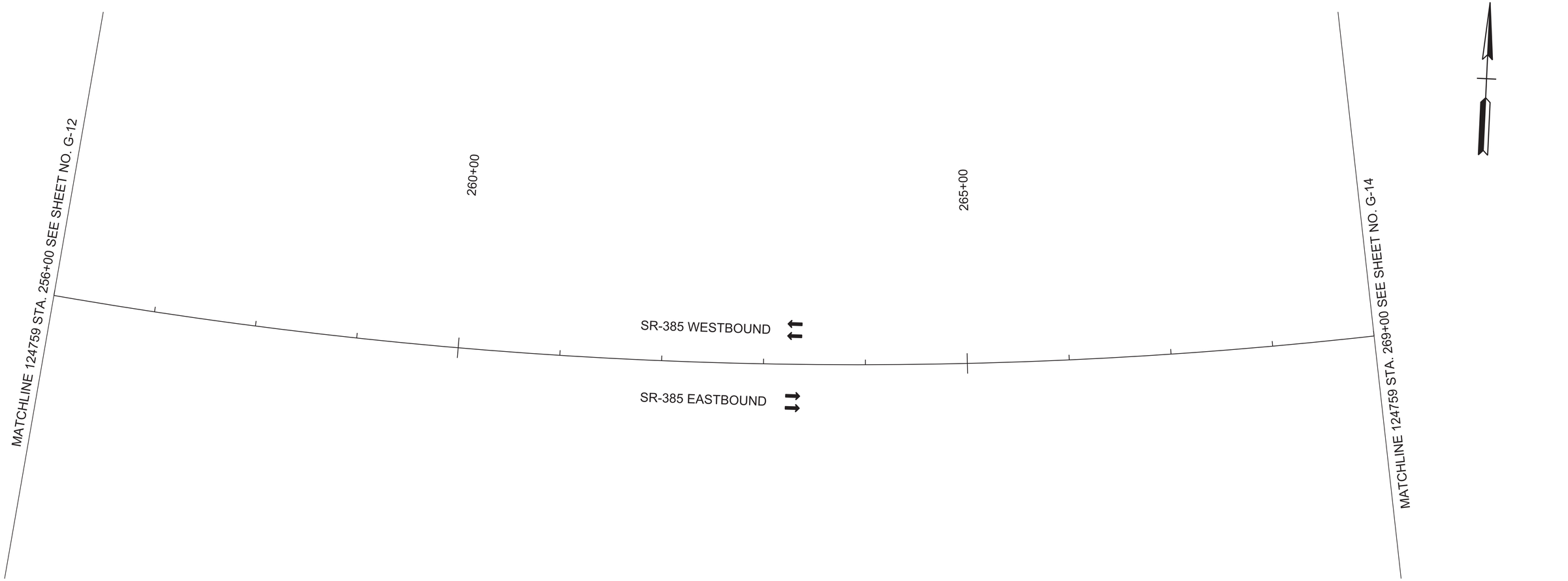
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GEOTECHNICAL BORING LAYOUT

SR-385
SCALE 1" = 50'
PIN 124759
STA. 243+00 TO 256+00

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TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	N/A
PS&E	2025	R-NH-385(33)	G-13



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7/9/2025

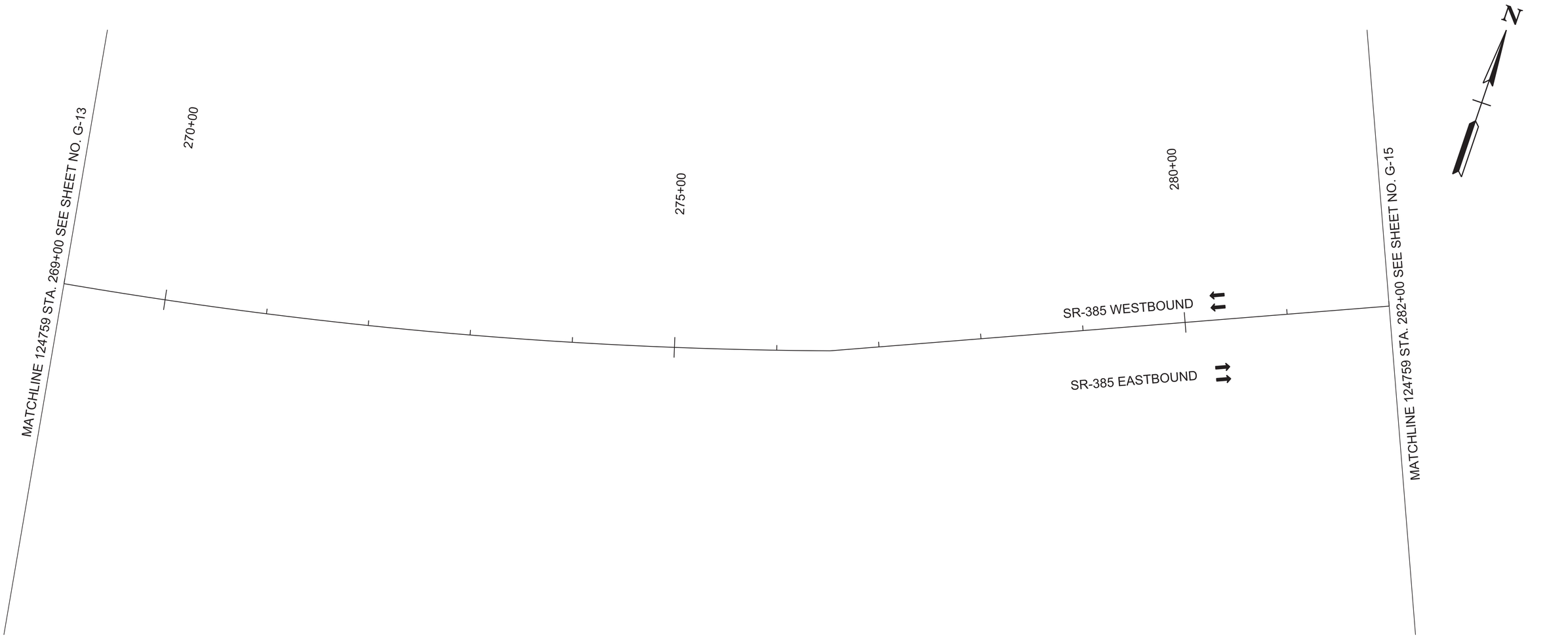
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GEOTECHNICAL BORING LAYOUT

SR-385
SCALE 1" = 50'
PIN 124759
STA. 256+00 TO 269+00

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TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	N/A
PS&E	2025	R-NH-385(33)	G-14



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DEPARTMENT OF TRANSPORTATION

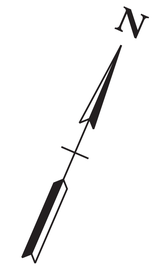
GEOTECHNICAL BORING LAYOUT

SR-385
SCALE 1" = 50'
PIN 124759
STA. 269+00 TO 282+00

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TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	N/A
PS&E	2025	R-NH-385(33)	G-15



MATCHLINE 124759 STA. 282+00 SEE SHEET NO. G-14

285+00

HOUSTON LEVEE RD

290+00

MATCHLINE 124759 STA. 295+00 SEE SHEET NO. G-16

SR-385 WESTBOUND

SR-385 EASTBOUND

CCTV-4 (50.5')

LEGEND

CCTV-4 (50.5') — BORING LOCATION TERMINATION DEPTH (NO REFUSAL)

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GEOTECHNICAL BORING LAYOUT

SR-385
SCALE 1" = 50'
PIN 124759
STA. 282+00 TO 295+00

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	N/A
PS&E	2025	R-NH-385(33)	G-16

MATCHLINE 124759 STA. 295+00 SEE SHEET NO. G-15

295+00

300+00

305+00

SR-385 WESTBOUND

SR-385 EASTBOUND

MATCHLINE 124759 STA. 308+00 SEE SHEET NO. G-17

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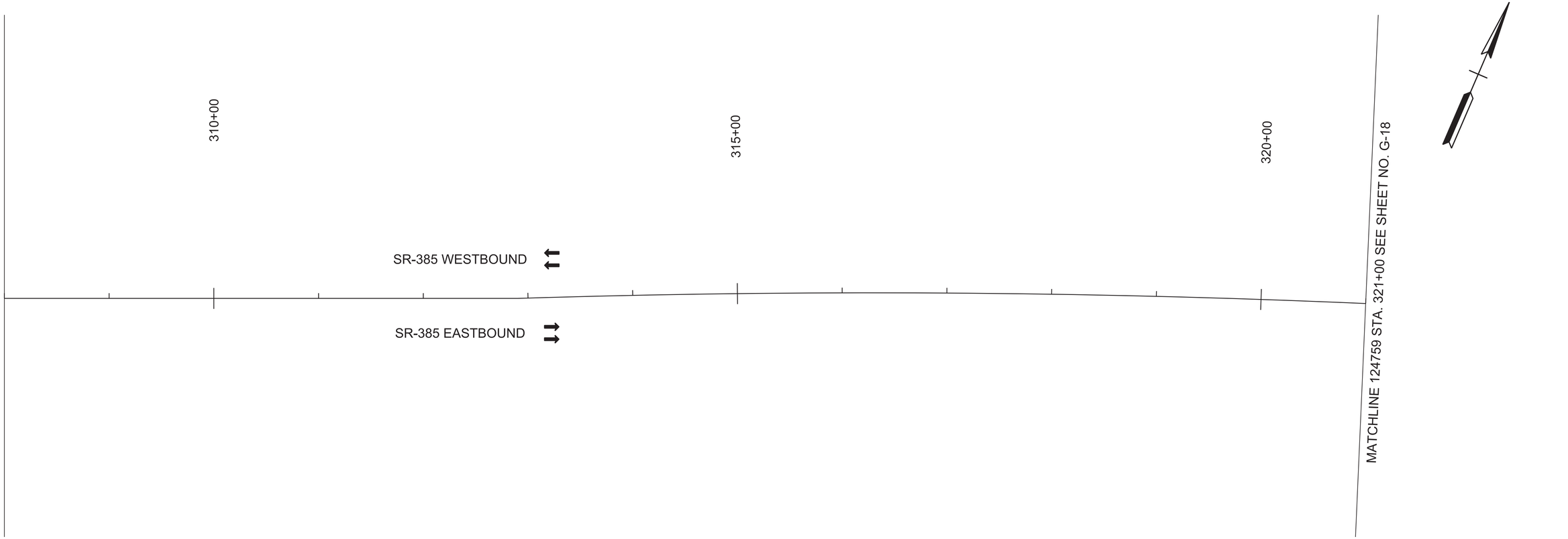
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

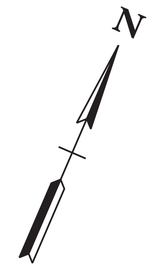
GEOTECHNICAL BORING LAYOUT

SR-385
SCALE 1" = 50'
PIN 124759
STA. 295+00 TO 308+00

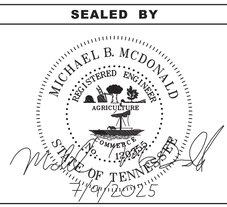
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TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	N/A
PS&E	2025	R-NH-385(33)	G-17





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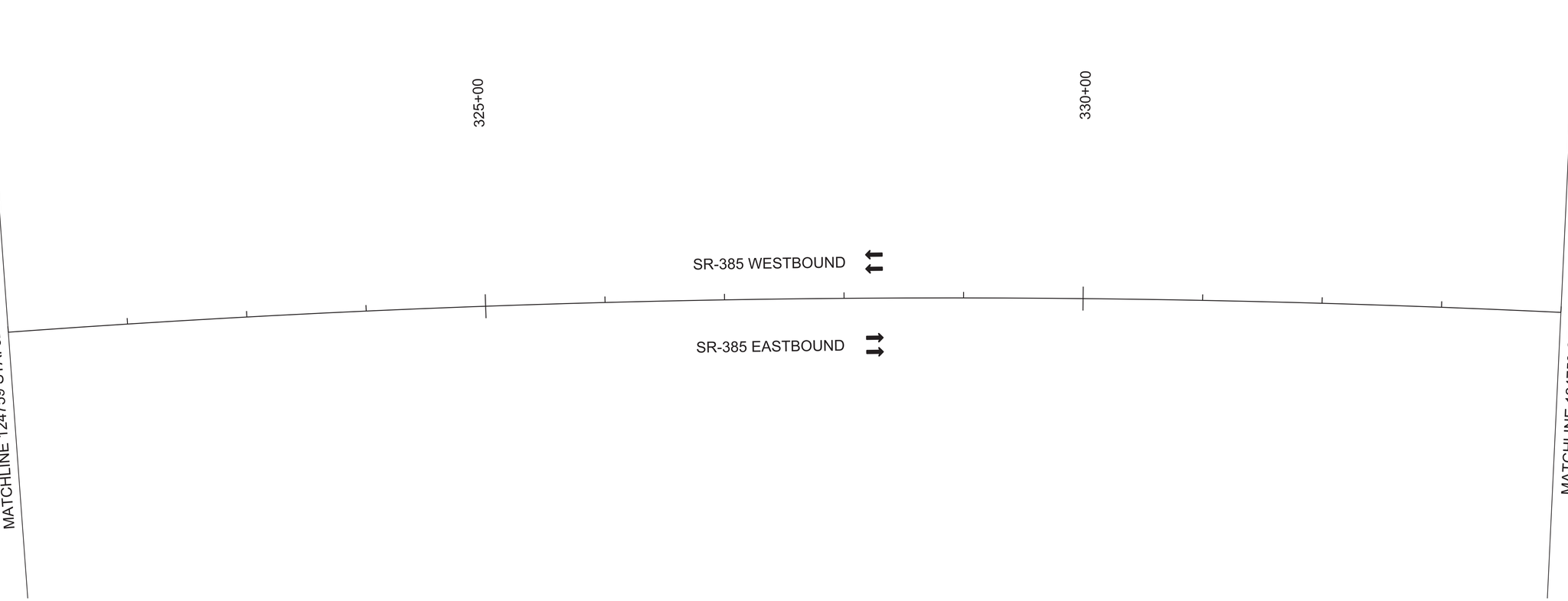
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GEOTECHNICAL BORING LAYOUT

SR-385
SCALE 1" = 50'
PIN 124759
STA. 308+00 TO 321+00

7/9/2025 9:28:03 AM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	N/A
PS&E	2025	R-NH-385(33)	G-18



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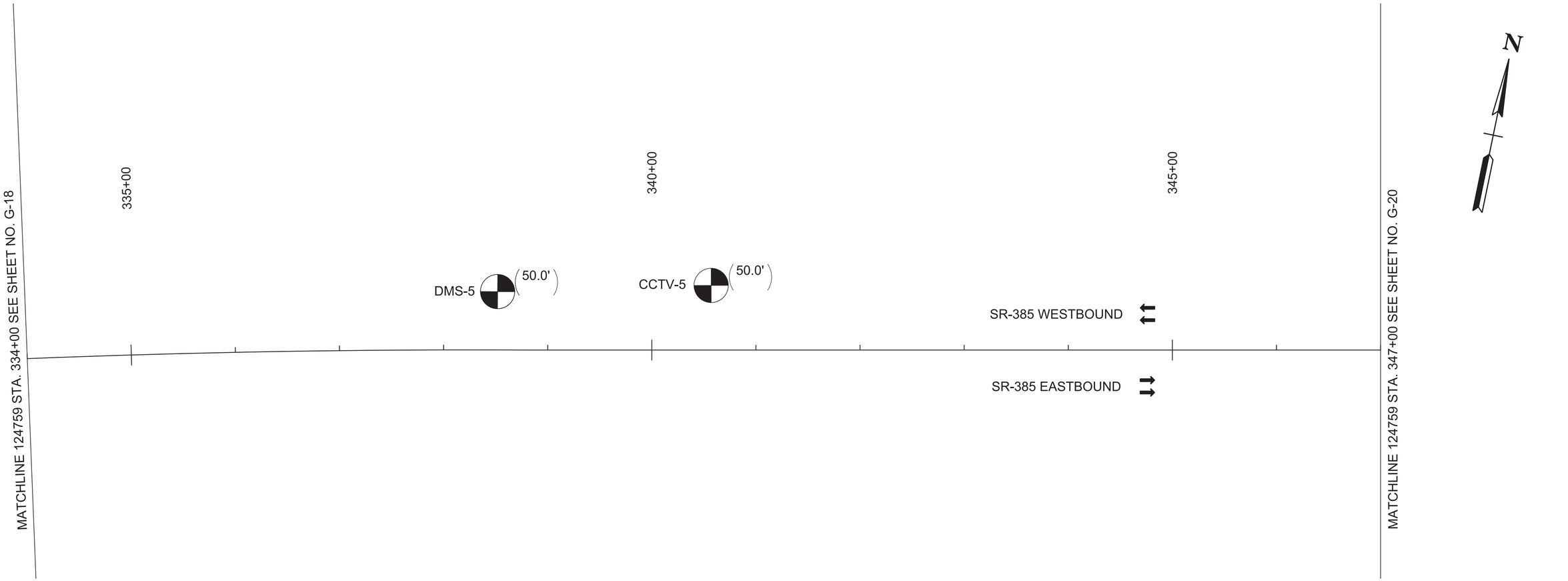
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GEOTECHNICAL BORING LAYOUT

SR-385
SCALE 1" = 50'
PIN 124759
STA. 321+00 TO 334+00

7/9/2025 9:28:03 AM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	N/A
PS&E	2025	R-NH-385(33)	G-19



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COMMERCE
No. 120255
STATE OF TENNESSEE
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LEGEND

DMS-5 (50.0') — BORING LOCATION TERMINATION DEPTH (NO REFUSAL)

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

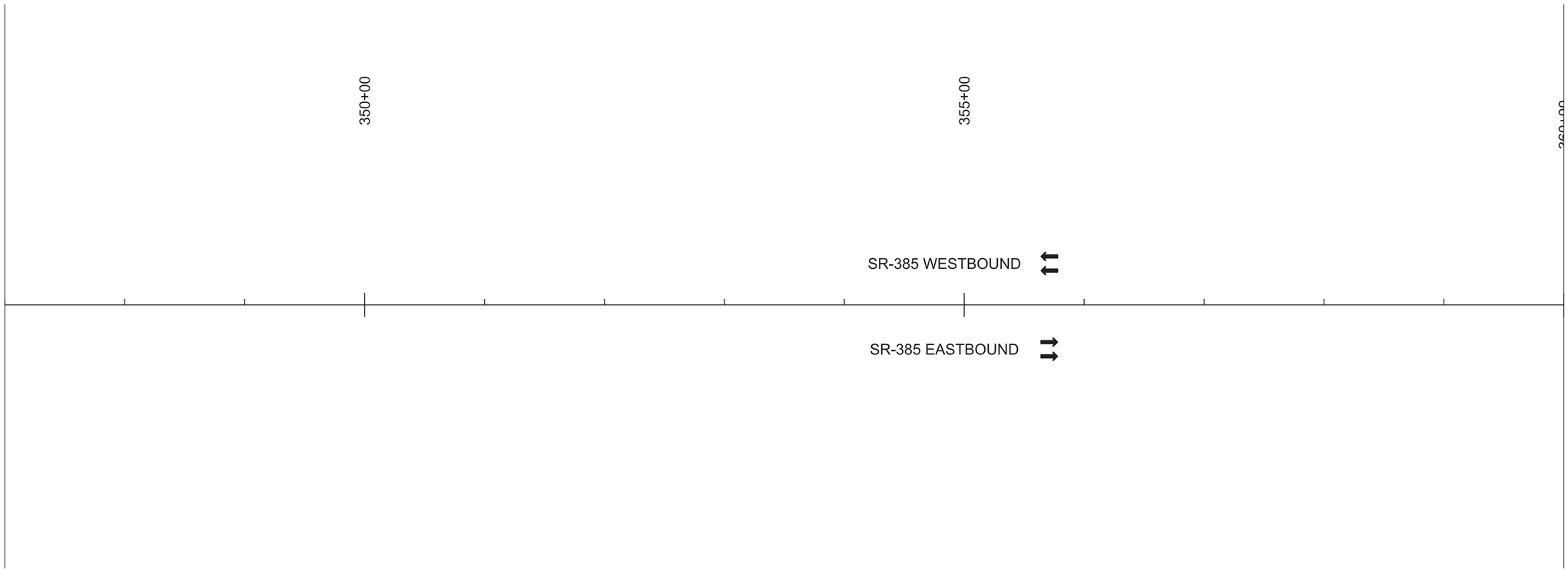
GEOTECHNICAL BORING LAYOUT

SR-385
SCALE 1" = 50'
PIN 124759
STA. 334+00 TO 347+00

7/9/2025 9:28:04 AM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	N/A
PS&E	2025	R-NH-385(33)	G-20





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STATE OF TENNESSEE
7/9/2025

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GEOTECHNICAL BORING LAYOUT

SR-385
SCALE 1" = 50'
PIN 124759
STA. 347+00 TO 360+00

7/9/2025 9:28:04 AM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	N/A
PS&E	2025	R-NH-385(33)	G-21





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GEOTECHNICAL BORING LAYOUT

SR-385
SCALE 1" = 50'
PIN 124759
STA. 360+00 TO 373+00

7/9/2025 9:28:05 AM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	N/A
PS&E	2025	R-NH-385(33)	G-22



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COMPETENCY
STATE OF TENNESSEE

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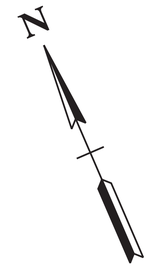
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GEOTECHNICAL BORING LAYOUT

SR-385
SCALE 1" = 50'
PIN 124759
STA. 373+00 TO 386+00

7/9/2025 9:28:05 AM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	N/A
PS&E	2025	R-NH-385(33)	G-23



CCTV-6 (50.0')

390+00

395+00

SR-385 WESTBOUND

SR-385 EASTBOUND

BYHALIA RD

MATCHLINE 124759 STA. 386+00 SEE SHEET NO. G-22

MATCHLINE 124759 STA. 399+00 SEE SHEET NO. G-24

LEGEND

CCTV-6 (50.0') — BORING LOCATION TERMINATION DEPTH (NO REFUSAL)

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INDUSTRY
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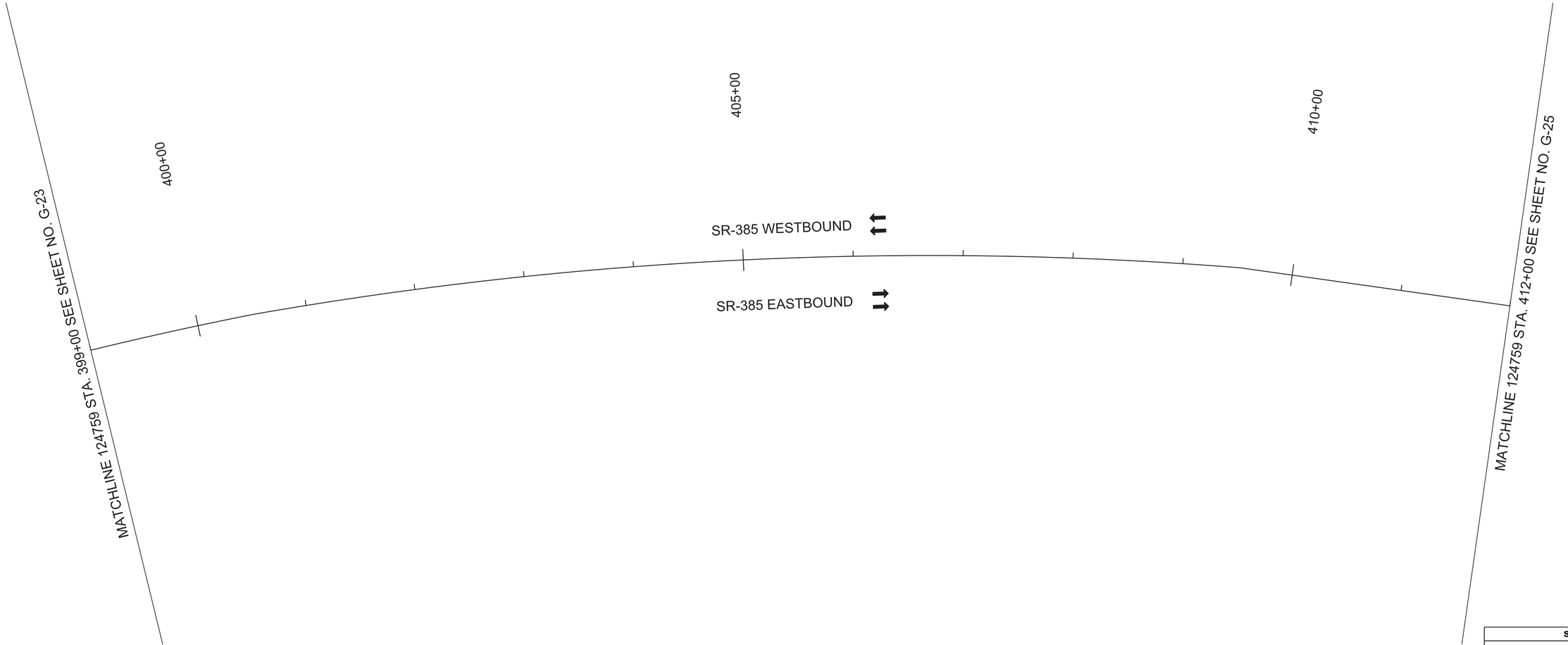
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GEOTECHNICAL BORING LAYOUT

SR-385
SCALE 1" = 50'
PIN 124759
STA. 386+00 TO 399+00

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TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	N/A
PS&E	2025	R-NH-385(33)	G-24



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COMPETENCY
NO. 128555
STATE OF TENNESSEE
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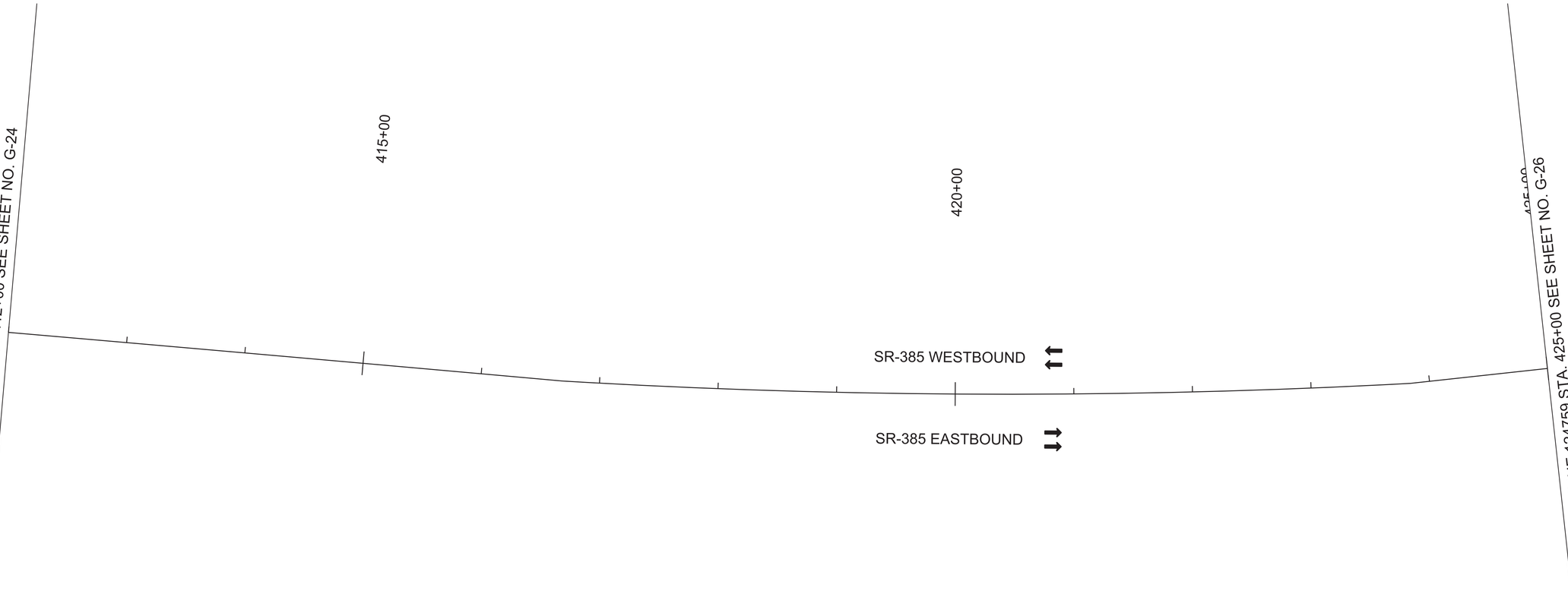
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GEOTECHNICAL BORING LAYOUT

SR-385
SCALE 1" = 50'
PIN 124759
STA. 399+00 TO 412+00

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TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	N/A
PS&E	2025	R-NH-385(33)	G-25



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AGRICULTURE
COMMERCE
No. 120359
STATE OF TENNESSEE
7/9/2025

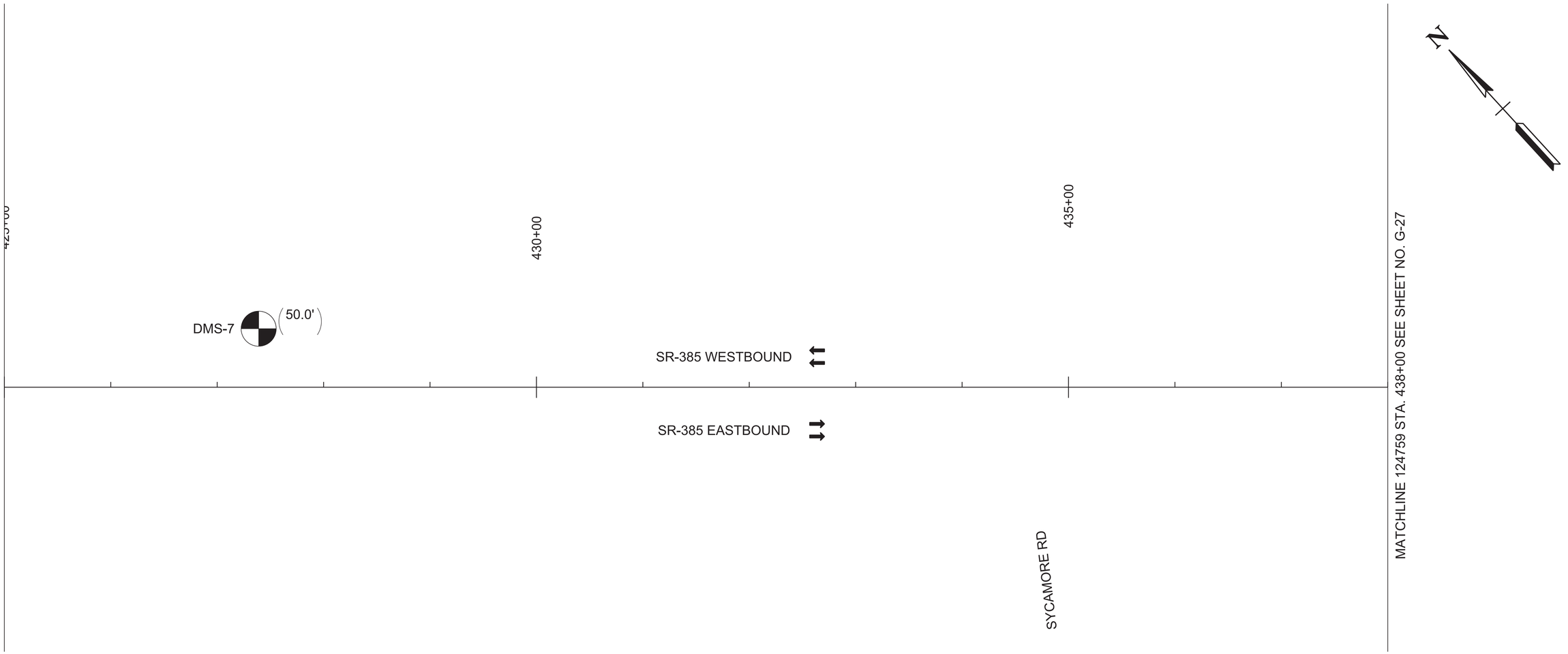
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GEOTECHNICAL BORING LAYOUT

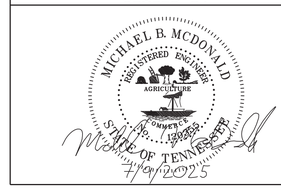
SR-385
SCALE 1" = 50'
PIN 124759
STA. 412+00 TO 425+00

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TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	N/A
PS&E	2025	R-NH-385(33)	G-26



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LEGEND

DMS-7 (50.0') — BORING LOCATION TERMINATION DEPTH (NO REFUSAL)

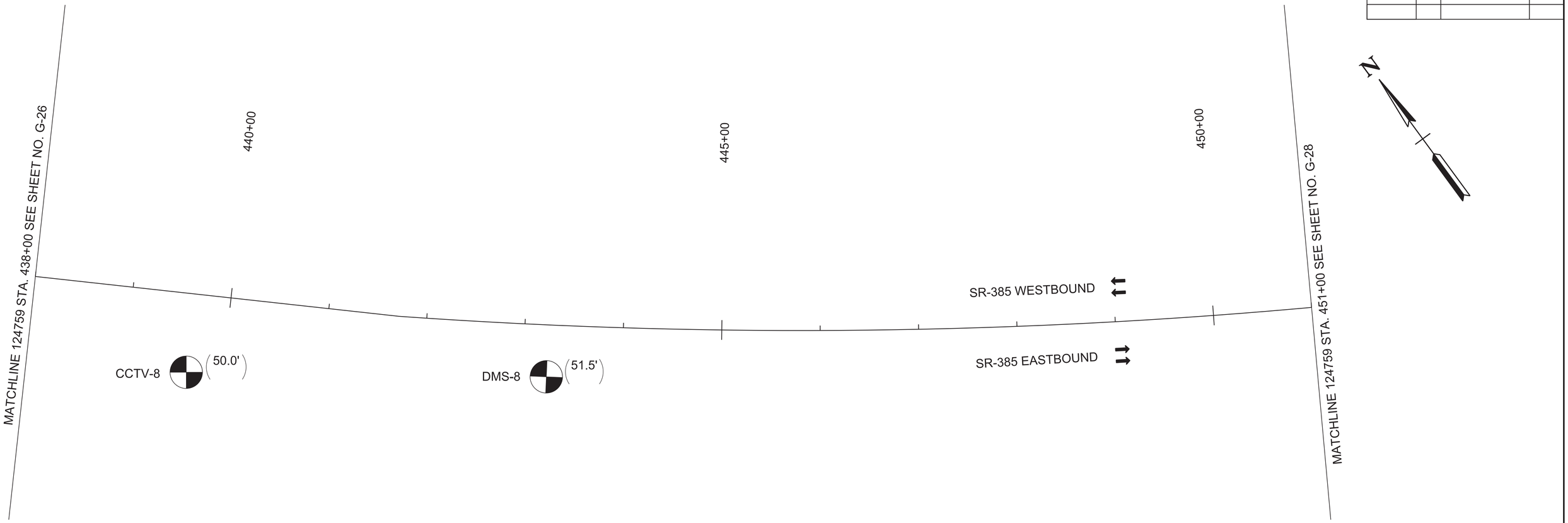
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GEOTECHNICAL BORING LAYOUT

SR-385
SCALE 1" = 50'
PIN 124759
STA. 425+00 TO 438+00

7/9/2025 9:28:07 AM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	N/A
PS&E	2025	R-NH-385(33)	G-27



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COMMERCE
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7/9/2025

LEGEND

CCTV-8 (50.0') — BORING LOCATION TERMINATION DEPTH (NO REFUSAL)

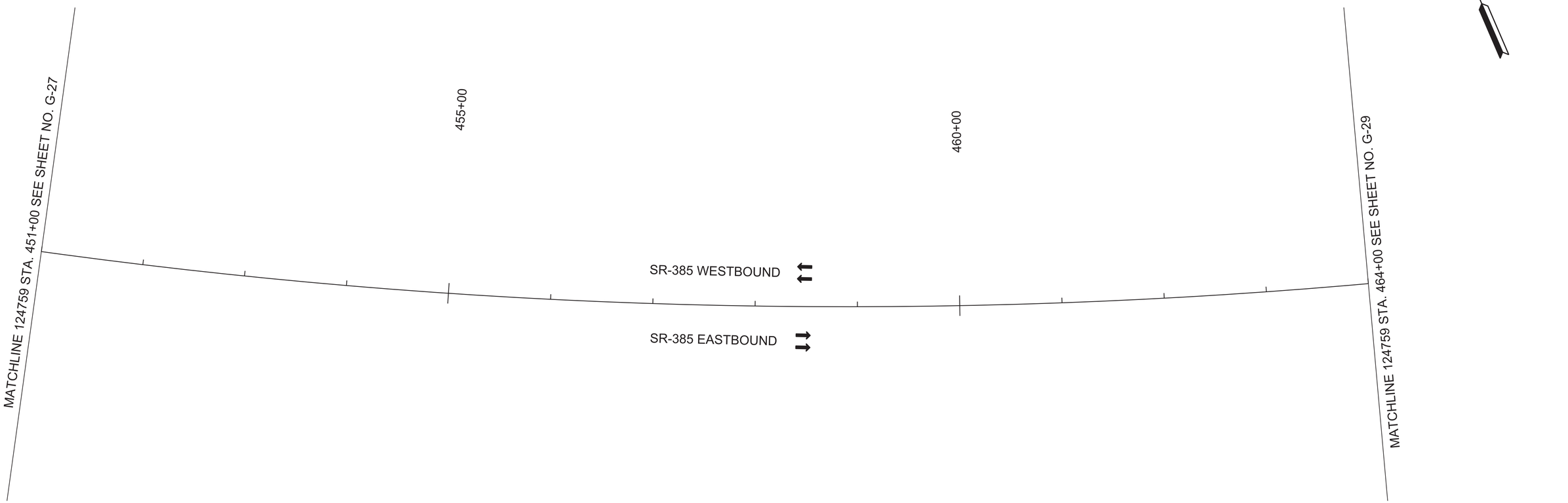
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GEOTECHNICAL BORING LAYOUT

SR-385
SCALE 1" = 50'
PIN 124759
STA. 438+00 TO 451+00

7/9/2025 9:28:07 AM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	N/A
PS&E	2025	R-NH-385(33)	G-28



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LEGEND
STATE OF TENNESSEE
7/9/2025

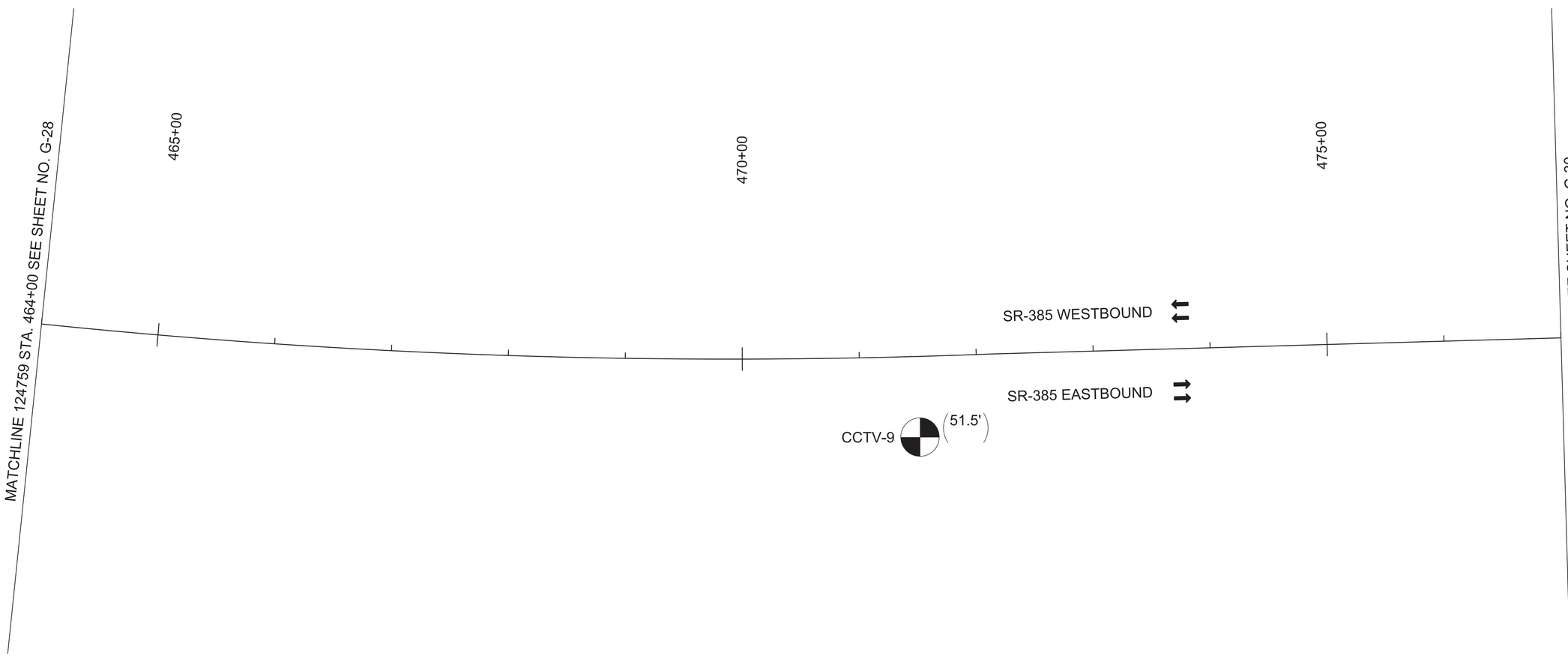
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GEOTECHNICAL BORING LAYOUT

SR-385
SCALE 1" = 50'
PIN 124759
STA. 451+00 TO 464+00

7/9/2025 9:28:08 AM
\\US0229-PPFSS01\work_group\2018\active\201802915\201802915.204\03 disciplines\lits\drawing\geotechnical\G-28.dgn

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	N/A
PS&E	2025	R-NH-385(33)	G-29





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LEGEND

CCTV-9 (51.5') — BORING LOCATION TERMINATION DEPTH (NO REFUSAL)

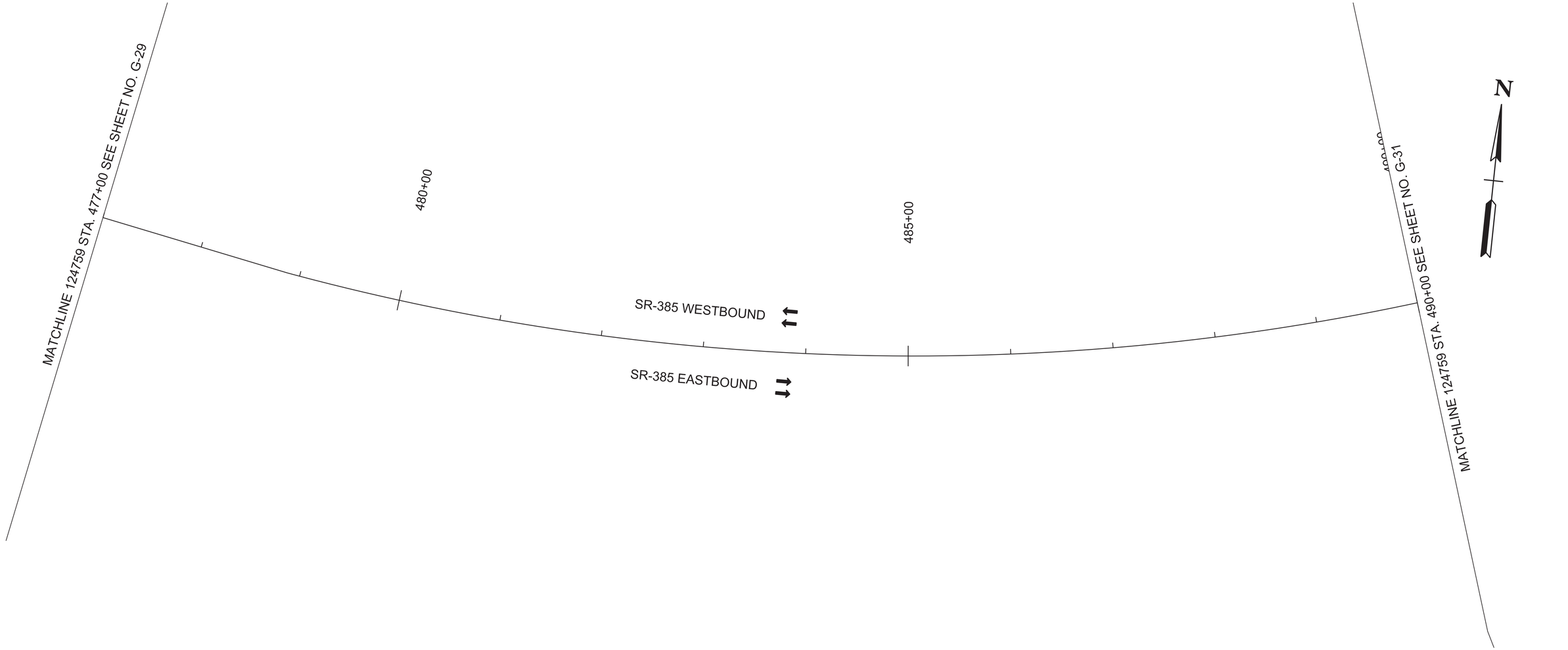
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GEOTECHNICAL BORING LAYOUT

SR-385
SCALE 1" = 50'
PIN 124759
STA. 464+00 TO 477+00

7/9/2025 9:28:08 AM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	N/A
PS&E	2025	R-NH-385(33)	G-30



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REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 129355
STATE OF TENNESSEE
7/9/2025

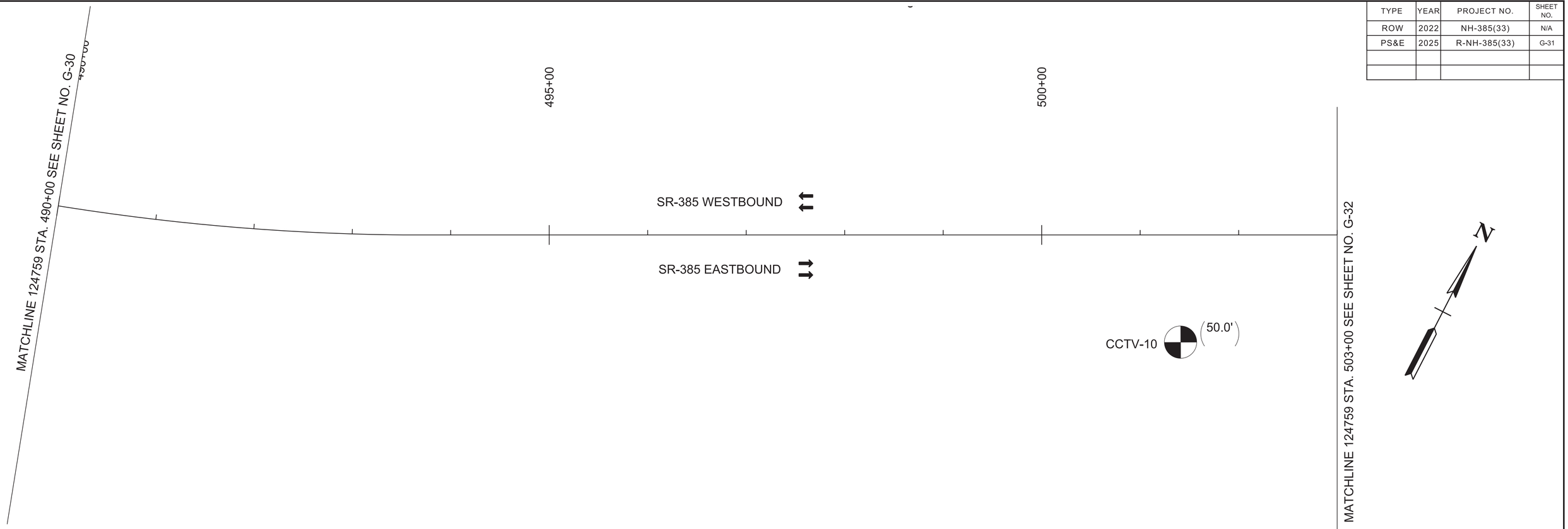
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GEOTECHNICAL BORING LAYOUT

SR-385
SCALE 1" = 50'
PIN 124759
STA. 477+00 TO 490+00

7/9/2025 9:28:08 AM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	N/A
PS&E	2025	R-NH-385(33)	G-31



LEGEND

CCTV-10 (50.0') — BORING LOCATION TERMINATION DEPTH (NO REFUSAL)

SEALED BY

MICHAEL B. MCDONALD
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 120855
STATE OF TENNESSEE
7/9/2025

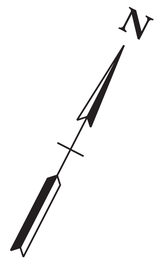
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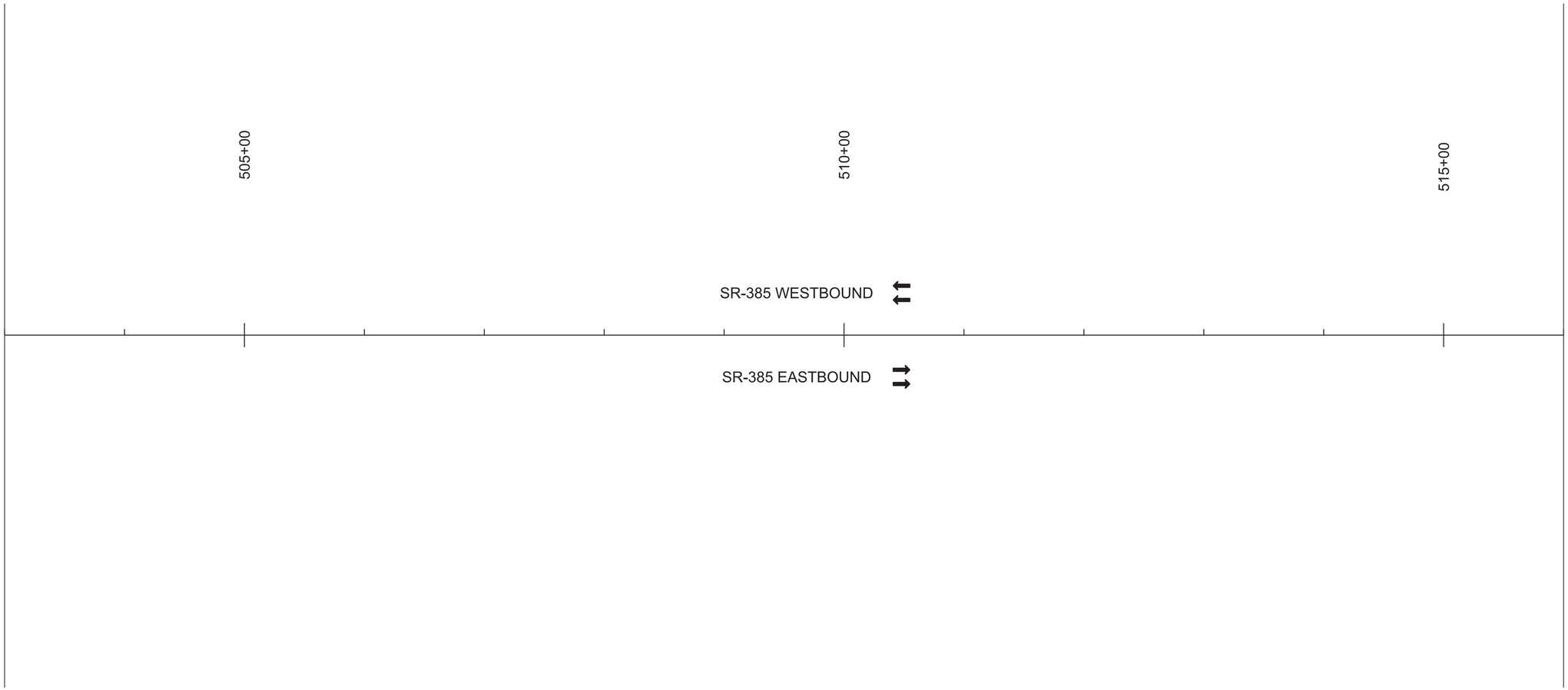
GEOTECHNICAL BORING LAYOUT

SR-385
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STA. 490+00 TO 503+00

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TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	N/A
PS&E	2025	R-NH-385(33)	G-32





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MICHAEL B. MCDONALD
REGISTERED ENGINEER
AGRICULTURE
COMPETENCY
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7/9/2025

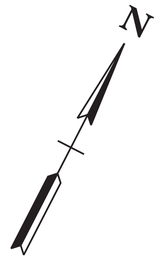
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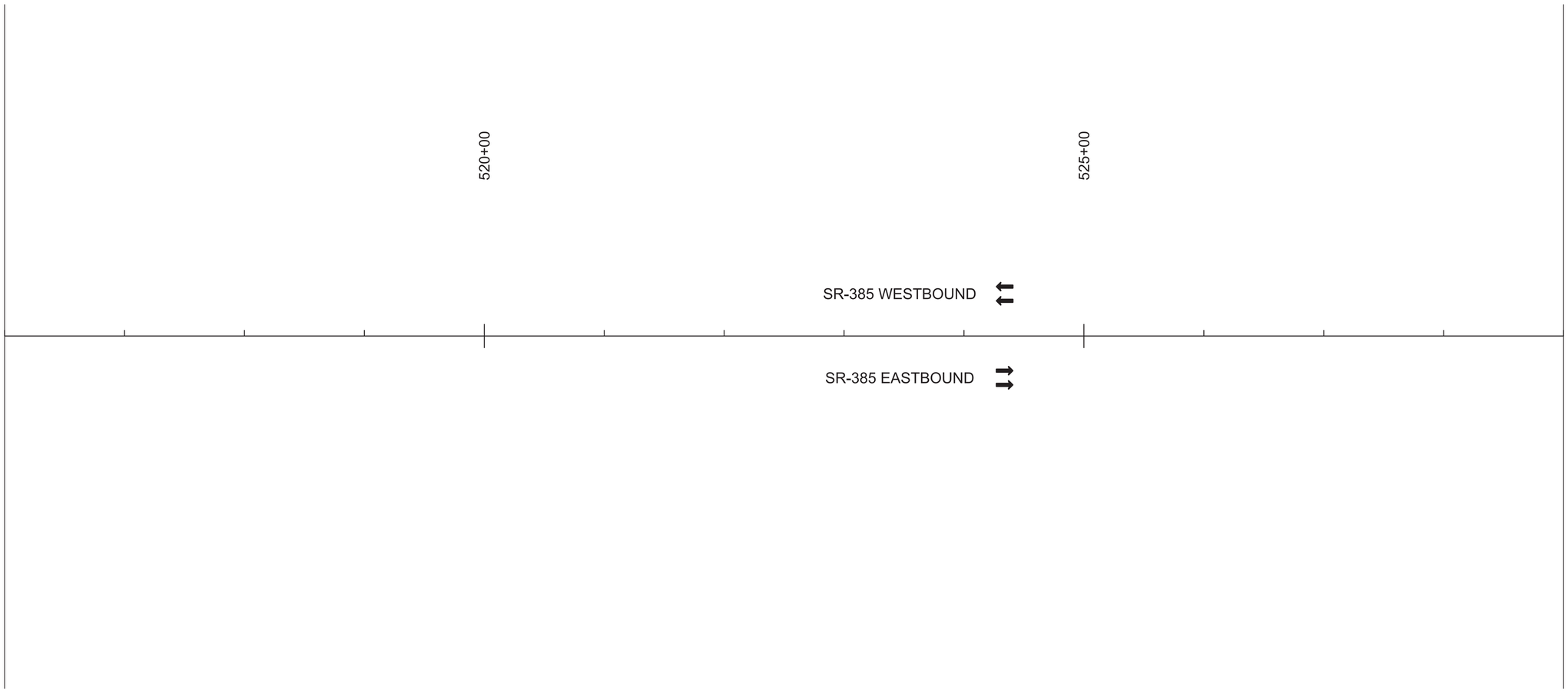
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TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	N/A
PS&E	2025	R-NH-385(33)	G-33





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COMMERCE
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7/9/2025

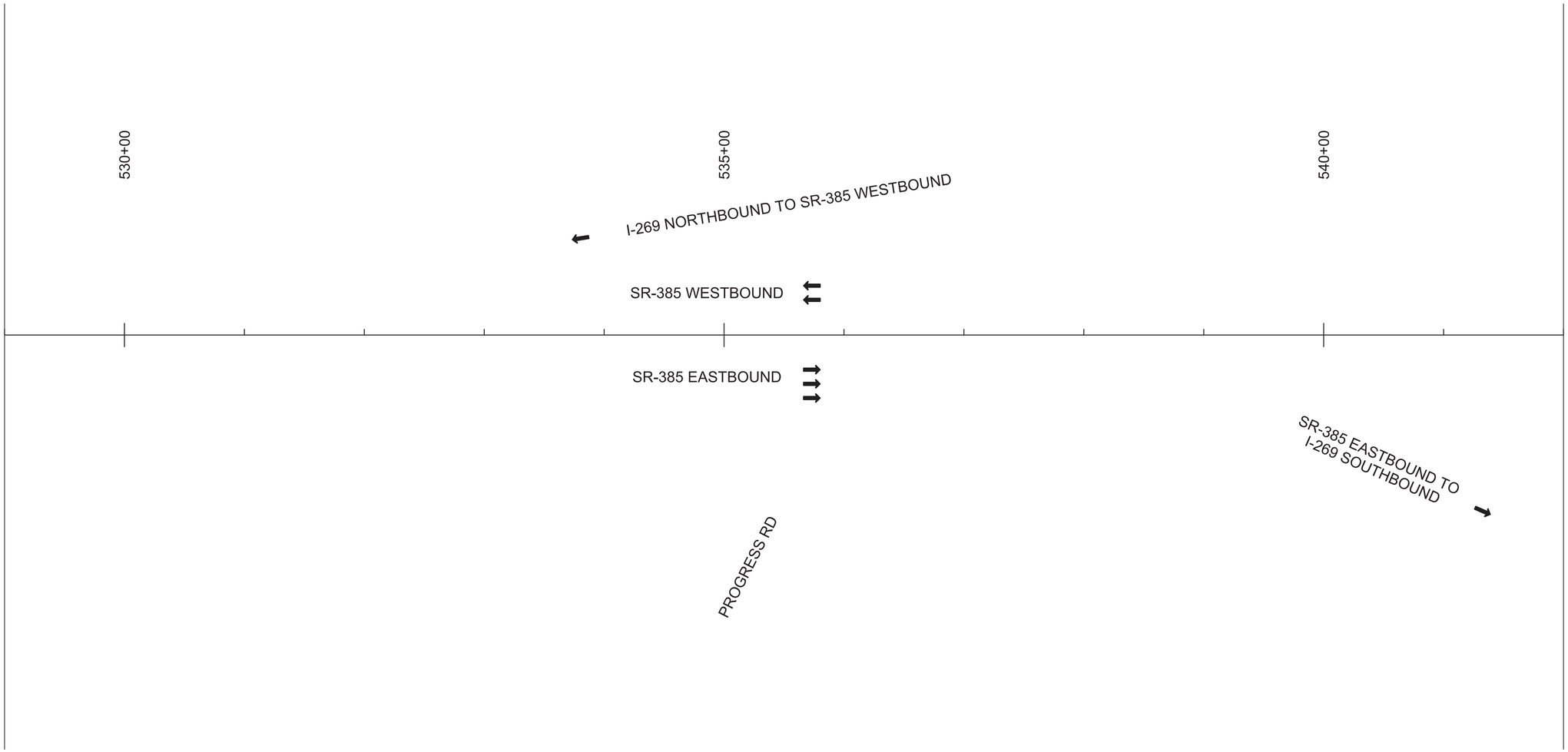
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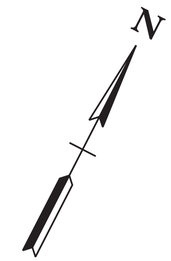
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TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	N/A
PS&E	2025	R-NH-385(33)	G-34





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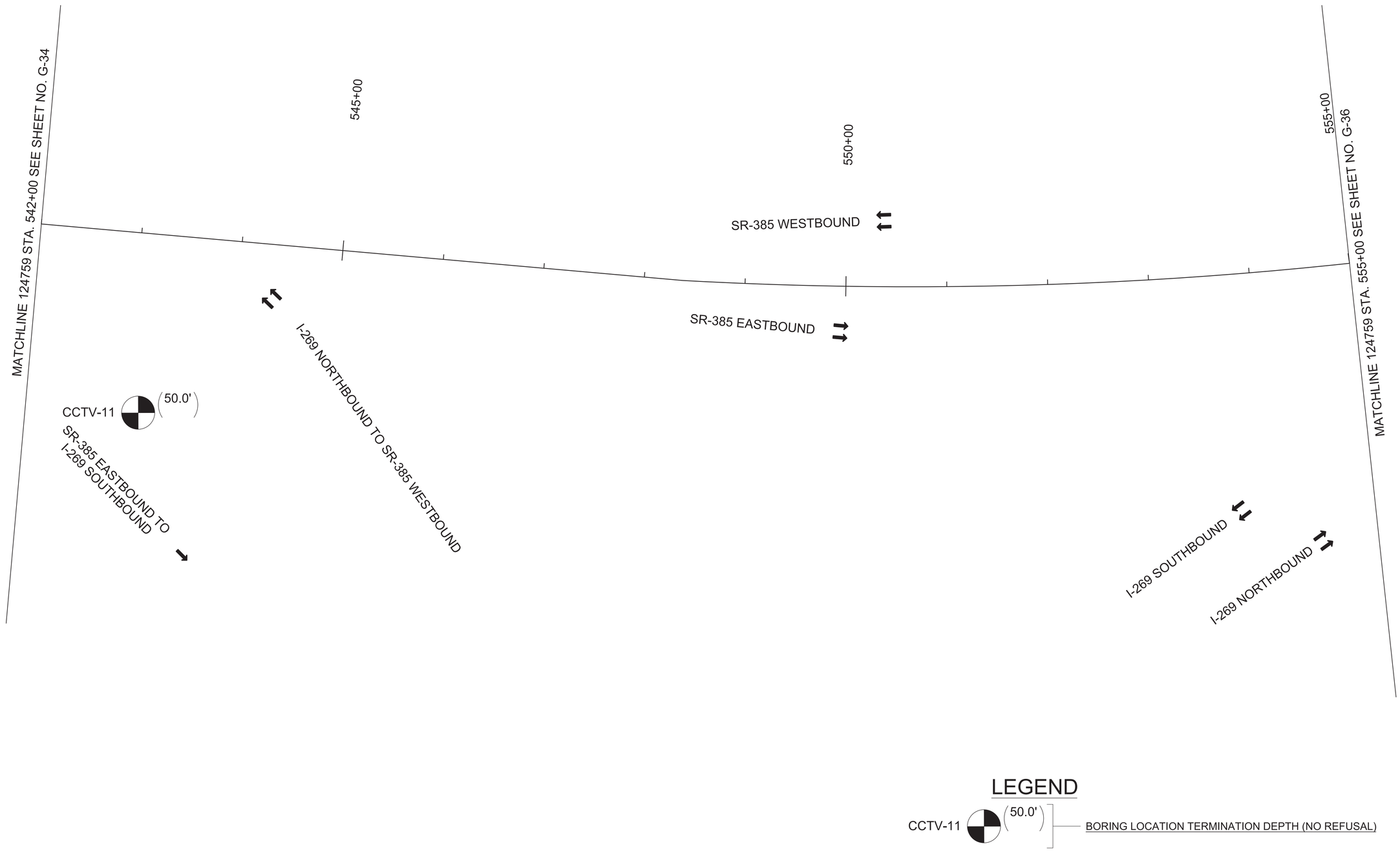
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DEPARTMENT OF TRANSPORTATION

GEOTECHNICAL BORING LAYOUT

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TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	N/A
PS&E	2025	R-NH-385(33)	G-35



LEGEND

CCTV-11 (50.0') — BORING LOCATION TERMINATION DEPTH (NO REFUSAL)

SEALED BY

MICHAEL B. MCDONALD
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 120822
STATE OF TENNESSEE
7/9/2025

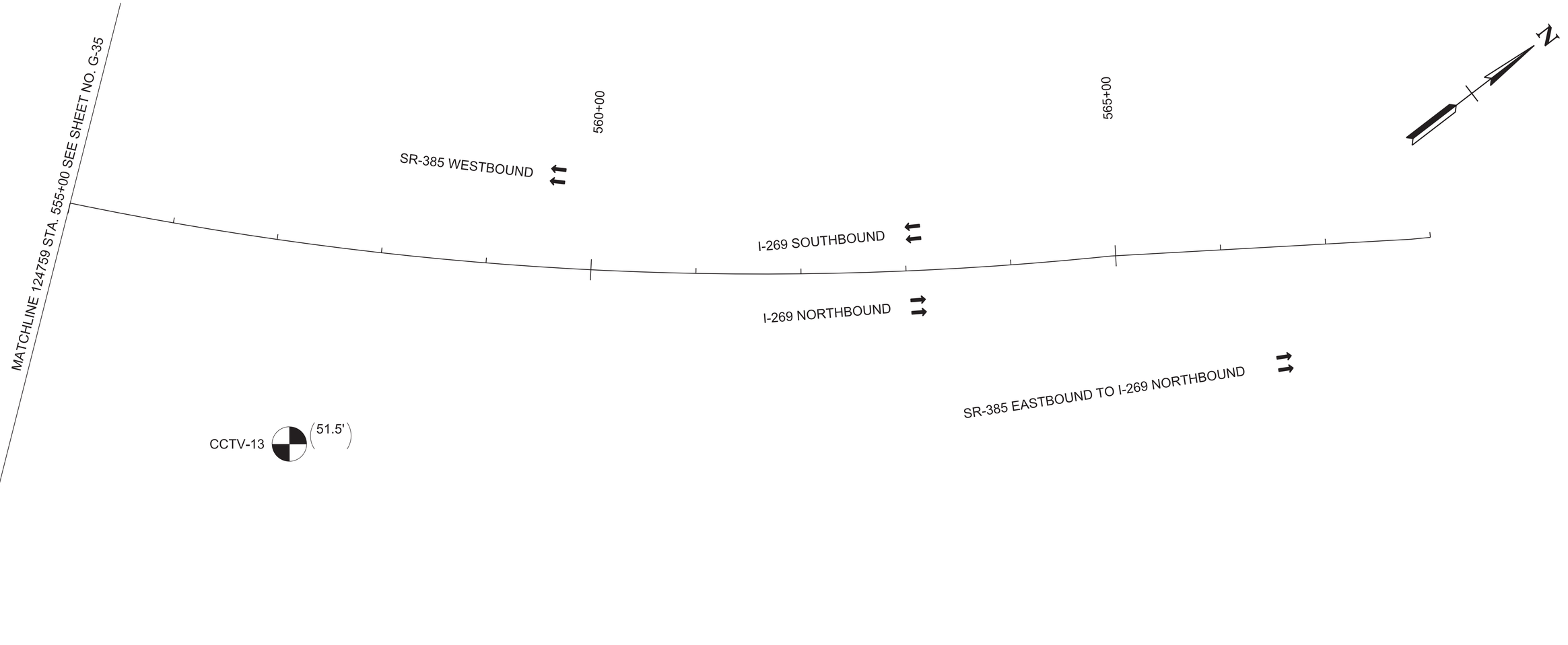
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DEPARTMENT OF TRANSPORTATION

GEOTECHNICAL BORING LAYOUT

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TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	N/A
PS&E	2025	R-NH-385(33)	G-36



LEGEND

CCTV-13 (51.5') — BORING LOCATION TERMINATION DEPTH (NO REFUSAL)

SEALED BY

MICHAEL B. MCDONALD
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
STATE OF TENNESSEE
7/9/2025

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GEOTECHNICAL BORING LAYOUT

SR-385
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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	
PS&E	2025	R-NH-385(33)	S-1

SWPPP INDEX OF SHEETS

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2. SITE DESCRIPTION (5.5.1.)	1
3. ORDER OF CONSTRUCTION ACTIVITIES (5.5.1.a)	1
4. STREAM, OUTFALL, WETLAND, TMDL AND ECOLOGY INFORMATION	1-2
5. EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) MEASURES (5.5.3.)	3-3
6. FLOCCULANTS (3.5.3.1.b)	3
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10. STORMWATER MANAGEMENT (5.5.3.11.h)	5-5
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NOTE: CITATIONS IN PARENTHESIS INDICATE SECTIONS OF THE CURRENT CGP.

1. SWPPP REQUIREMENTS (5.0.)

1.1. HAS THE SWPPP TEMPLATE BEEN PREPARED BY AN INDIVIDUAL THAT HAS THE FOLLOWING LICENSING AND/OR CERTIFICATIONS (5.2)?

☒ YES (CHECK ALL THAT APPLY BELOW) OR ☐ NO

- ☐ CERTIFIED PROFESSIONAL IN EROSION AND SEDIMENT CONTROL (CPESC)
- ☒ A TN LICENSED PROFESSIONAL ENGINEER OR LANDSCAPE ARCHITECT
- ☒ HAS SUCCESSFULLY COMPLETED TDEC LEVEL II COURSE

1.2. DO THE EPSC PLANS INVOLVE STRUCTURAL DESIGN, HYDRAULIC, HYDROLOGIC OR OTHER ENGINEERING CALCULATIONS FOR EPSC STRUCTURAL MEASURES (E.G. SEDIMENT BASINS) (5.2.)? YES ☐ NO ☒

IF YES, HAVE THE EPSC PLANS BEEN PREPARED, STAMPED AND CERTIFIED BY A TN LICENSED PROFESSIONAL ENGINEER OR LANDSCAPE ARCHITECT? ☐ YES ☐ NO

1.3. DO THE PROJECT STORMWATER OUTFALLS DISCHARGE INTO THE FOLLOWING (6.4.1.)? ☒ YES (CHECK ALL THAT APPLY BELOW) ☐ NO

- ☒ WATERS WITH UNAVAILABLE PARAMETERS (303d FOR SILTATION)
- ☐ EXCEPTIONAL TENNESSEE WATERS (ETW)

2. SITE DESCRIPTION (5.5.1.)

2.1. PROJECT LIMITS (5.5.1.f): REFER TO TITLE SHEET

2.2. TOTAL PROJECT AREA (5.5.1.b): 5.1 ACRES

2.3. TOTAL AREA TO BE DISTURBED (5.5.1.b): 5.1 ACRES

2.4. PROJECT DESCRIPTION (5.5.1.a):

TITLE: SR-385 ITS Expansion From Near MM 7 to Near I-269 MM 15
COUNTY: Shelby and Fayette
PIN: 124759.00

2.5. SITE MAP(S) (3.2.2.): REFER TO TITLE SHEET

2.6. DESCRIPTION OF EXISTING SITE TOPOGRAPHY (5.5.1.c): REFER TO EXISTING CONTOURS SHEET(S) N/A, DRAINAGE MAP SHEET(S) N/A, USGS QUAD MAP, AND THE OUTFALL TABLE IN SECTION 4.2.

2.7. MAJOR SOIL DISTURBING ACTIVITIES (5.5.1.a) (CHECK ALL THAT APPLY):

- ☒ CLEARING AND GRUBBING
- ☒ EXCAVATION
- ☒ CUTTING AND FILLING
- ☒ FINAL GRADING AND SHAPING
- ☒ UTILITIES
- ☐ OTHER (DESCRIBE): _____

2.8. NO MORE THAN 50 ACRES OF ACTIVE SOIL DISTURBANCE IS ALLOWED AT ANY TIME DURING THE CONSTRUCTION OF THE PROJECT.

2.9. ARE THERE ANY SEASONAL LIMITATIONS ON WORK? ☐ YES ☒ NO

IF YES, LIST THE CORRESPONDING PLAN SHEET: _____

2.10. WAS ROW FINALIZED PRIOR TO FEBRUARY 1, 2010 (4.1.2.2)?

☐ YES _____ (DATE) ☒ NO

IF ROW WAS FINALIZED PRIOR TO FEBRUARY 1, 2010, THIS PROJECT IS CONSIDERED A PRE-APPROVED SITE (4.1.2.2)

2.11. SOIL PROPERTIES (5.5.1.d, 5.5.3.3.d, 5.5.3.6.b).

SOIL PROPERTIES FOR THE PRIMARY SOILS ARE LISTED IN THE TABLE BELOW.

SOIL PROPERTIES			
PRIMARY SOIL NAME	HSG	% OF SITE	ERODIBILITY (k value)
Gab3 - Grenada	D	0.4	0.55
Gcg-Grenada-Gullied	D	0.0	.49
GgD-Grenada-Gullied	D	0.2	.49
Gs-Gullied	N/A	0.3	
Ad-Alder	C	3.4	.43
Ca-Calloway	D	9.5	.55
Co-Collins	B	1.1	.55
Fm-Falaya	C	47.2	.43
GaB - Grenada	C/D	8.9	.55
GaB2-Grenada	C	3.5	.49
GaC3-Grenada	D	9.1	.55
GaD-Grenada	C/D	2.3	.55
GaD2-Grenada	C/D	3.3	.55
GgD3-Grenada	C/D	3.8	.55
Gs-Gullied		2.2	
He-Henry	D	2.1	.55
W-Water		0.6	
Wv-Waverly	B/D	2.2	.49

2.12. IS ACID PRODUCING ROCK (APR) (i.e. PYRITE) LOCATED WITHIN THE PROJECT LIMITS? ☐ YES ☒ NO

2.12.1. IF YES TO SECTION 2.13, HAVE APR LOCATIONS BEEN IDENTIFIED WITHIN THE CONSTRUCTION PLANS AND/OR THE GEOTECHNICAL REPORT? ☐ YES ☐ NO; AND

2.12.2. IF YES TO SECTION 2.12.1, HAS A SPECIAL HANDLING PLAN AND/OR ADAPTIVE MANAGEMENT PLAN (AMP) BEEN PREPARED FOR THE PROJECT? ☐YES ☐ NO ☐ N/A (TDOT SP107L WILL BE APPLIED.)

2.13. PROJECT RUNOFF COEFFICIENTS AND AREA PERCENTAGES (5.5.3.6.a).

RUNOFF COEFFICIENTS FOR EXISTING CONDITIONS				
AREA TYPE	AREA(AC)	PERCENTAGE OF TOTAL AREA (%)	RUNOFF CN	C FACTOR
IMPERVIOUS	0	0	98	0.96
PERVIOUS	5.1	100	87	0.84
WEIGHTED CURVE NUMBER OR C-FACTOR =			87	0.84

RUNOFF COEFFICIENTS FOR POST-CONSTRUCTION CONDITIONS				
AREA TYPE	AREA(AC)	PERCENTAGE OF TOTAL AREA (%)	RUNOFF CN	C FACTOR
IMPERVIOUS	0	0	98	0.96
PERVIOUS	5.1	100	87	0.84
WEIGHTED CURVE NUMBER OR C-FACTOR =			87	0.84

3. ORDER OF CONSTRUCTION ACTIVITIES (5.5.1.a)

CONSTRUCTION SHALL BE SEQUENCED AND STAGED TO: MINIMIZE THE EXPOSURE TIME OF GRADED OR DENUDED SOIL AREAS, PRESERVE TOPSOIL, AND MINIMIZE SOIL COMPACTION. NO WORK SHALL BE STARTED UNTIL THE CONTRACTOR'S PLAN FOR THE STAGING OF THEIR OPERATIONS, INCLUDING THE PLAN FOR STAGING OF TEMPORARY AND PERMANENT EPSC MEASURES, HAS BEEN ACCEPTED BY THE ENGINEER. THE CONTRACTOR'S EPSC PLAN SHALL INCORPORATE AND SUPPLEMENT, AS ACCEPTABLE, THE ORDER OF CONSTRUCTION ACTIVITIES AND THE BASIC EPSC DEVICES DEPICTED ON THE EPSC PLAN CONTAINED WITHIN THE APPROVED SWPPP.

3.1. SPECIAL SEQUENCING REQUIREMENTS (SEE SHEETS 2M7)

3.2. INSTALL STABILIZED CONSTRUCTION EXITS.

3.3. INSTALL PERIMETER PROTECTION WHERE RUNOFF SHEET FLOWS FROM THE SITE.

3.4. INSTALL INITIAL EPSC MEASURES BEFORE CLEARING, GRUBBING, EXCAVATION, GRADING, CULVERT OR BRIDGE CONSTRUCTION, CUTTING, FILLING, OR ANY OTHER EARTHWORK OCCURS, EXCEPT AS SUCH WORK MAY BE NECESSARY TO INSTALL EPSC MEASURES.

3.5. PERFORM CLEARING AND GRUBBING (NOT MORE THAN TWO WEEKS PRIOR TO GRADING OR EARTH-MOVING. REFER TO THE STABILIZATION PRACTICES BELOW.).

3.6. REMOVE AND STORE TOPSOIL.

3.7. STABILIZE DISTURBED AREAS WITHIN 2 WEEKS OF COMPLETING ANY STAGE AND/OR PHASE OF ACTIVITY (STEEP SLOPES SHALL BE STABILIZED WITHIN 1 WEEK AFTER CONSTRUCTION ACTIVITY HAS TEMPORARY OR PERMANENTLY CEASED). ANY TIME DURING CONSTRUCTION THE TOTAL DISTURBED AREA IS LESS THAN 1/2 ACRE OR THERE IS LESS THAN 500 LF FO OPEN TRENCHES.

3.8. INSTALL UTILITIES, STORM SEWERS, CULVERTS AND BRIDGE STRUCTURES.

3.9. INSTALL INLET AND CULVERT PROTECTION ONCE STRUCTURES ARE IN PLACE AND CAPABLE OF INTERCEPTING FLOW.

3.10. PERFORM FINAL GRADING AND INSTALL BASE STONE.

3.11. COMPLETE FINAL PAVING AND SEALING OF CONCRETE.

3.12. INSTALL TRAFFIC CONTROL AND PROTECTION DEVICES.

3.13. COMPLETE PERMANENT STABILIZATION (TOPSOIL, SEEDING, MULCH, EROSION CONTROL BLANKET, SOD, ETC.)

3.14. REMOVE TEMPORARY EROSION CONTROLS AND ACCUMULATED SEDIMENT FROM AREAS THAT HAVE ESTABLISHED AT LEAST 70 PERCENT UNIFORM PERMANENT VEGETATIVE COVER.

3.15. RE-STABILIZE AREAS DISTURBED BY REMOVAL ACTIVITIES.

4. STREAM, OUTFALL, WETLAND, TMDL AND ECOLOGY INFORMATION

4.1. STREAM INFORMATION (5.5.1.h, 5.5.1.i)

4.1.1. WILL CONSTRUCTION AND/OR EROSION PREVENTION AND SEDIMENT CONTROLS IMPACT ANY STREAMS WITHIN THE PROJECT LIMITS? ☒ YES ☐ NO

IF YES, THE IMPACT(S) HAVE BEEN INCLUDED IN THE TOTAL PROJECT IMPACTS AND HAVE BEEN INCLUDED IN THE WATER QUALITY PERMITS.

4.1.2. HAVE ANY OF THE RECEIVING STATE WATERS LESS THAN OR EQUAL TO 1 FLOW MILE DOWN GRADIENT OF THE PROJECT LIMITS BEEN CLASSIFIED BY TDEC AS FOLLOWS (CHECK ALL THAT APPLY):

- ☒ 303d WITH UNAVAILABLE PARAMETERS FOR SILTATION
- ☐ EXCEPTIONAL TENNESSEE WATERS (ETW)

4.1.3. RECEIVING WATERS OF THE STATE (5.5.1.h, 5.5.1.j, 5.5.1.k).

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

STORMWATER POLLUTION PREVENTION PLAN

TENNESSEE D.O.T. | DESIGN DIVISION | FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	
PS&E	2025	R-NH-385(33)	S-2

RECEIVING WATERS OF THE STATE INFORMATION					
TDOT STATE WATER LABEL FROM EBR	NAME OF RECEIVING STATE WATER	303d WITH UNAVAILABLE PARAMETERS FOR SILTATION (YES OR NO)	ETW (YES OR NO)	LOCATED WITHIN PROJECT LIMITS (YES OR NO)	LOCATED WITHIN ≤ 1 FLOW MILE DOWN GRADIENT OF PROJECT LIMITS (YES OR NO)
STR-1	N/A	No	No	Yes	Yes
STR-2	N/A	No	No	Yes	Yes
STR-3	N/A	No	No	Yes	Yes
STR-4	N/A	No	No	Yes	Yes
STR-5	N/A	Yes	No	Yes	Yes
STR-6	N/A	No	No	Yes	Yes
STR-7	N/A	No	No	Yes	Yes
STR-8	N/A	Yes	No	Yes	Yes
STR-9	N/A	Yes	No	Yes	Yes
STR-10	N/A	No	No	Yes	Yes
STR-11	N/A	No	No	Yes	Yes
STR-12	N/A	No	No	Yes	Yes

4.1.4. RECEIVING WATERS OF THE US (NON-STATE WATERS) (4.1.2). LIST ANY FEATURE THAT IS IDENTIFIED AS A WET WEATHER CONVEYANCE (TDEC) AND IDENTIFIED AS WATERS OF THE US BY THE ARMY CORPS OF ENGINEERS.

WET WEATHER CONVEYANCES THAT ARE WATERS OF THE US		
TDOT STATE WATER LABEL FROM EBR	LOCATED WITHIN PROJECT LIMITS (YES OR NO)	LOCATED WITHIN ≤ 1 FLOW MILE DOWN GRADIENT OF PROJECT LIMITS (YES OR NO)
WWC-1	Yes	Yes
WWC-2	Yes	Yes
WWC-3	Yes	Yes
WWC-4	Yes	Yes
WWC-5	Yes	Yes
WWC-6	Yes	Yes
WWC-7	Yes	Yes
WWC-8	Yes	Yes
WWC-9	Yes	Yes
WWC-10	Yes	Yes
WWC-11	Yes	Yes
WWC-12	Yes	Yes
WWC-13	Yes	Yes
WWC-14	Yes	Yes

4.1.5. ARE THERE ANY WATER QUALITY RIPARIAN BUFFER ZONES REQUIRED FOR WATERS OF THE STATE? (5.5.1.l, 6.4.2.)

☐ YES ☒ NO

BUFFER ZONE REQUIREMENTS ARE NOT REQUIRED FOR PRE-APPROVED SITES (4.1.2.2.)

IF YES, THEY HAVE BEEN INCLUDED ON PLAN SHEET(S) N/A.

IF YES, CHECK THE APPROPRIATE BOX BELOW FOR SIZE OF BUFFER.

☐ 60-FEET FOR WATERS WITH UNAVAILABLE PARAMETERS AND EXCEPTIONAL TENNESSEE WATERS (ETW) (AVERAGE WIDTH PER SIDE WITH A MINIMUM OF 30-FEET).

A 60 FOOT NATURAL WATER QUALITY RIPARIAN BUFFER ZONE ADJACENT TO AND ON BOTH SIDES OF THE RECEIVING STATE STREAM WITH THIS DESIGNATION SHALL BE PRESERVED TO THE MAXIMUM EXTENT PRACTICABLE DURING CONSTRUCTION ACTIVITIES AT THE SITE. THE 60 FOOT CRITERION FOR THE WIDTH OF THE BUFFER ZONE CAN BE ESTABLISHED ON AN AVERAGE WIDTH BASIS AT A PROJECT, AS LONG AS THE MINIMUM WIDTH OF THE BUFFER ZONE IS MORE THAN 30 FEET AT ANY MEASURED LOCATION. IF THE CONSTRUCTION SITE ENCOMPASSES BOTH SIDES OF A STREAM, BUFFER AVERAGING CAN BE APPLIED TO BOTH SIDES, BUT MUST BE APPLIED INDEPENDENTLY.

☐ 30-FEET FOR ALL OTHER STREAMS (AVERAGE WIDTH PER SIDE WITH A MINIMUM OF 15-FEET).

A 30 FOOT NATURAL WATER QUALITY RIPARIAN BUFFER ZONE ADJACENT TO AND ON BOTH SIDES OF THE RECEIVING STATE STREAM SHALL BE PRESERVED TO THE MAXIMUM EXTENT PRACTICABLE DURING CONSTRUCTION ACTIVITIES AT THE SITE. THE 30 FOOT CRITERION FOR THE WIDTH OF THE BUFFER ZONE CAN BE ESTABLISHED ON AN AVERAGE WIDTH BASIS AT A PROJECT, AS LONG AS THE MINIMUM WIDTH OF THE BUFFER ZONE IS MORE THAN 15 FEET AT ANY MEASURED LOCATION. IF THE CONSTRUCTION SITE ENCOMPASSES BOTH SIDES OF A STREAM, BUFFER AVERAGING CAN BE APPLIED TO BOTH SIDES, BUT MUST BE APPLIED INDEPENDENTLY.

☐ 15-FEET FOR ANY WET WEATHER CONVEYANCES IDENTIFIED AS WATERS OF THE US BY THE US ARMY CORPS OF ENGINEERS.

4.1.6. ARE THERE ANY WATER QUALITY RIPARIAN BUFFER ZONES NOT REQUIRED FOR STATE WATERS DUE TO A TDEC ARAP? (1.5.2.)

☐ YES ☒ NO

4.1.7. ARE THERE WATER QUALITY RIPARIAN BUFFER ZONE EXEMPTIONS? (4.1.2.1.) ☐ YES ☒ NO

IF YES, EXISTING CONDITIONS DESCRIPTION: N/A

4.1.8. EVERY ATTEMPT SHOULD BE MADE FOR CONSTRUCTION ACTIVITIES TO NOT TAKE PLACE WITHIN THE WATER QUALITY RIPARIAN BUFFER ZONE AND FOR EXISTING FORESTED AREAS TO BE PRESERVED. (4.1.2., 6.4.2.)

4.1.9. BECAUSE OF HEAVY SEDIMENT LOAD ASSOCIATED WITH CONSTRUCTION SITE RUNOFF, WATER QUALITY RIPARIAN BUFFER ZONES ARE NOT SEDIMENT CONTROL MEASURES AND SHOULD NOT BE RELIED UPON AS PRIMARY SEDIMENT CONTROL MEASURES. THE WATER QUALITY RIPARIAN BUFFER ZONE SHALL BE ESTABLISHED BETWEEN THE TOP OF THE STREAM BANK AND THE DISTURBED CONSTRUCTION AREA.

4.1.10. WHERE IT IS NOT PRACTICABLE TO MAINTAIN A FULL WATER QUALITY RIPARIAN BUFFER, BEST MANAGEMENT PRACTICES (BMPS) PROVIDING EQUIVALENT PROTECTION AS THE NATURAL RIPARIAN ZONE MUST BE USED. A JUSTIFICATION FOR USE AND DESIGN EQUIVALENCY SHALL BE DOCUMENTED WITHIN THE SWPPP. THE ENVIRONMENTAL AND ROADWAY DESIGN DIVISIONS SHALL REVIEW AND APPROVE THIS REVISION OF THE SWPPP BEFORE DISTURBANCE OF THE SITE PROCEEDS, UNLESS PREVIOUSLY EXEMPT IN THE NPDES CGP. WHERE ISSUED, ARAP/401 REQUIREMENTS WILL PREVAIL IF IN CONFLICT WITH THESE BUFFER ZONE REQUIREMENTS.

4.2. OUTFALL INFORMATION

4.2.1. OUTFALL TABLE (5.5.1.c). SEE SWPPP SHEET S-8 FOR OUTFALL INFORMATION.

4.2.2. HAVE ALL OUTFALLS BEEN LABELED ON THE EPSC PLAN SHEETS (5.5.1.f)? ☐ YES ☒ NO

4.2.3. HAVE ALL OUTFALLS BEEN LABELED ON A USGS TOPOGRAPHIC MAP INCLUDED IN THE "DOCUMENTATION AND PERMITS" BINDER (3.2.2.)? ☐YES ☒ NO

4.2.4. WHERE POSSIBLE, HAS NON-PROJECT RUN-ON BEEN DIVERTED AROUND OR THROUGH THE PROJECT TO ELIMINATE CONTACT WITH DISTURBED AREAS OF THE PROJECT AND SEPARATE IT FROM PROJECT RUN-OFF THEREBY REDUCING THE DRAINAGE AREA OF TO THE OUTFALLS IN THIS AREA?

☐ YES ☐ NO ☒ N/A

4.2.5. ARE EQUIVALENT MEASURES BEING SUBSTITUTED FOR A SEDIMENT BASIN(S) OR SEDIMENT TRAP(S)? (5.5.3.5.)

☐ YES ☐ NO ☒ N/A

4.2.6. A SEDIMENT BASIN, OR EQUIVALENT MEASURE(S) WILL BE PROVIDED FOR ANY OUTFALL IN A DRAINAGE AREA:

OF TEN ACRES OR MORE FOR AN OUTFALL(S) THAT DOES NOT DISCHARGE TO A STATE STREAM WITH UNAVAILABLE PARAMETERS OR EXCEPTIONAL TENNESSEE WATERS (ETW). A TEMPORARY (OR PERMANENT) SEDIMENT BASIN OR EQUIVALENT CONTROL MEASURES THAT PROVIDES STORAGE FOR A CALCULATED VOLUME OF RUNOFF FROM A MINIMUM 2-YEAR/ 24-HOUR STORM EVENT, SHALL BE PROVIDED UNTIL PERMANENT STABILIZATION OF THE SITE. (5.5.3.5)

OR

OF FIVE ACRES OR MORE FOR AN OUTFALL(S) THAT DISCHARGES TO A STATE STREAM WITH UNAVAILABLE PARAMETERS OR EXCEPTIONAL TENNESSEE WATERS (ETW). A TEMPORARY (OR PERMANENT) SEDIMENT BASIN THAT PROVIDES STORAGE FOR A CALCULATED VOLUME OF RUNOFF FROM A 5-YEAR/ 24-HOUR STORM EVENT AND RUNOFF FROM EACH ACRE DRAINED, OR EQUIVALENT CONTROL MEASURES, SHALL BE PROVIDED UNTIL PERMANENT STABILIZATION OF THE SITE. (6.4.1.e).

ALL CALCULATIONS RELATED TO DRAINAGE AREAS, RUNOFF COEFFICIENTS, BASIN VOLUMES AND EQUIVALENT CONTROL MEASURES MUST BE PROVIDED IN THE SWPPP (5.5.3.5.)

4.2.7. A SEDIMENT TRAP, OR EQUIVALENT MEASURE(S) WILL BE PROVIDED FOR ANY OUTFALL IN A DRAINAGE AREA:

OF 3.5 - 4.9 ACRES FOR AN OUTFALL(S) THAT DISCHARGES TO A STATE STREAM WITH UNAVAILABLE PARAMETERS (303d SILTATION) OR EXCEPTIONAL TENNESSEE WATERS (ETW). A SEDIMENT TRAP THAT PROVIDES STORAGE FOR A CALCULATED VOLUME OF RUNOFF FROM A 5-YEAR/24-HOUR STORM EVENT AND RUNOFF FROM EACH ACRE DRAINED, OR EQUIVALENT CONTROL MEASURES, SHALL BE PROVIDED UNTIL PERMANENT STABILIZATION OF THE SITE. (6.4.1.f).

IN BOTH INSTANCES, THE ENVIRONMENTAL AND ROADWAY DESIGN DIVISIONS MAY BE CONTACTED TO REVIEW AND CONCUR WITH ANY REVISION OF THE SWPPP BEFORE DISTURBANCE OF THE OUTFALL PROCEEDS.

4.2.8. SEDIMENT STRUCTURES TREATING DRAINAGE AREAS IN EXCESS OF 25 ACRES REQUIRE A SITE-SPECIFIC DESIGN THAT ACCURATELY DEFINES THE SITE HYDROLOGY, SITE-SPECIFIC SEDIMENT LOADING, HYDRAULICS OF THE SITE, AND ADHERES TO ALL TENNESSEE EROSION AND SEDIMENT CONTROL HANDBOOK DESIGN RECOMMENDATIONS FOR SEDIMENT BASINS. (5.5.3.5.)

4.3. WETLAND INFORMATION

WILL CONSTRUCTION AND/OR EROSION AND SEDIMENT CONTROLS IMPACT ANY WETLANDS? ☒ YES ☐ NO

IF YES, THE STRUCTURAL EPSC MEASURES HAVE BEEN INCLUDED IN THE TOTAL PROJECT IMPACTS AND IN THE WATER QUALITY PERMITS.

WETLAND INFORMATION				
TDOT WETLAND LABEL	FROM STATION LT OR RT	TO STATION LT OR RT	TEMPORARY IMPACTS (AC)	PERMANENT IMPACTS (AC)
WTL-1	LT & RT 147+00.00	LT & RT 172+00.00	3.0	0
WTL-2	RT 221+00.00 LT 223+00.00	RT 231+00.00 LT 245+00.00	2.6	0
WTL-3	LT 297+00.00	LT 300+00.00	0.20	0
WTL-4	RT 301+00.00	RT 310+00.00	0.30	0
WTL-5	RT 351+50.00	RT 353+00.00	3.0	0
WTL-6	LT 483+00.00	LT 486+00.00	0.20	0

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STORMWATER POLLUTION PREVENTION PLAN

TENNESSEE D.O.T. | DESIGN DIVISION | FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2022	NH-385(33)	
PS&E	2025	R-NH-385(33)	S-3

4.4. TOTAL MAXIMUM DAILY LOADS (TMDL) INFORMATION (1.3.j)

4.4.1. IS THIS PROJECT LOCATED IN A HUC-8 WATERSHED THAT MAINTAINS AN EPA APPROVED TMDL FOR SILTATION AND HABITAT ALTERATION?

☒YES ☐ NO

4.4.2. IF YES, IS THIS PROJECT LOCATED WITHIN A HUC-12 SUBWATERSHED WITH A WASTE LOAD ALLOCATION (WLA)?

☐ YES ☒ NO

4.4.3. IF YES, DOES THE PROJECT HAVE A DIRECT DISCHARGE TO A 303(d) LISTED STREAM FOR SILTATION?

☒ YES ☐ NO

IF YES, SWPPP INCORPORATES MEASURES OR CONTROLS CONSISTENT WITH THE ASSUMPTIONS AND REQUIREMENTS OF THE TMDL.

4.5. ECOLOGY INFORMATION (3.5.5.e)

DOES THE TDOT ENVIRONMENTAL BOUNDARIES REPORT SPECIFY SPECIAL NOTES TO BE ADDED TO THE PLAN SHEETS?

☐ YES ☒ NO

IF YES, THEY HAVE BEEN INCLUDED ON PLAN SHEET(S) _____.

4.6. ENVIRONMENTAL COMMITMENTS

ARE THERE ANY NOTES ON THE ENVIRONMENTAL COMMITMENT SHEET?

☐ YES ☒ NO

IF YES, THEY HAVE BEEN INCLUDED ON PLAN SHEET(S) _____.

5. EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) MEASURES (5.5.3.)

5.1. EPSC MEASURES MUST BE DESIGNED, INSTALLED AND MAINTAINED TO CONTROL STORMWATER VOLUME AND VELOCITY WITHIN THE SITE TO MINIMIZE EROSION (4.1.1).

5.2. EPSC MEASURES MUST CONTROL STORMWATER DISCHARGES, INCLUDING BOTH PEAK FLOWS AND TOTAL STORMWATER VOLUME, TO MINIMIZE EROSION AT OUTLETS, STREAM CHANNELS, AND STREAM BANKS. (4.1.1)

5.3. HAVE THE CONTROL MEASURES BEEN DESIGNED PER THE SIZE AND SLOPE OF THE DISTURBED DRAINAGE AREA (5.5.3.5.)?

☒YES ☐ NO

5.4. THE CONTROL MEASURES HAVE, AT A MINIMUM, BEEN DESIGNED FOR THE 5-YEAR, 24 HOUR STORM EVENT (5.5.3.5., 6.4.1.b).

5.5. ARE THE LIMITS OF DISTURBANCE CLEARLY MARKED ON THE EPSC PLANS (5.5.1.f)? ☒ YES ☐ NO

5.6. AREAS TO BE UNDISTURBED SHALL BE CLEARLY MARKED IN THE FIELD BEFORE CONSTRUCTION ACTIVITIES BEGIN.

5.7. UNLESS OTHERWISE NOTED IN THE PLANS, THE CONTRACTOR SHALL NOT CLEAR/DISTURB ANY AREA BEYOND 15 FEET FROM SLOPE LINES OR ROW/ EASEMENT LINE, WHICHEVER IS LESSER.

5.8. CLEARING, GRUBBING, AND OTHER DISTURBANCE TO RIPARIAN VEGETATION SHALL BE LIMITED TO THE MINIMUM NECESSARY FOR SLOPE CONSTRUCTION AND EQUIPMENT OPERATIONS. EXISTING VEGETATION, INCLUDING STREAM AND WETLAND BUFFERS (UNLESS PERMITTED), SHOULD BE PRESERVED TO THE MAXIMUM EXTENT POSSIBLE. UNNECESSARY VEGETATION REMOVAL IS PROHIBITED.

5.9. HAS A THREE STAGED EPSC PLAN BEEN PREPARED FOR THE PROJECT (5.5.2.)?

YES ☐ NO ☒

PLEASE NOTE THAT A THREE STAGED EPSC PLAN IS REQUIRED FOR ALL TDOT PROJECTS FOR WHICH AN NPDES PERMIT IS REQUIRED.

5.10. STEEP SLOPES ARE DEFINED AS A NATURAL OR CREATED SLOPE OF 35% GRADE OR GREATER REGARDLESS OF HEIGHT. HAVE STEEP SLOPES BEEN MINIMALLY DISTURBED AND/OR PROTECTED BY CONVEYING RUNOFF NON-EROSIVELY AROUND OR OVER THE SLOPE (5.5.3.4.) (10. "STEEP SLOPE")? ☐ YES ☐ NO ☒ N/A

5.11. THE STRUCTURAL EPSC MEASURES HAVE BEEN INCLUDED IN THE TOTAL PROJECT IMPACTS AND HAVE BEEN INCLUDED IN THE AQUATIC RESOURCE ALTERATION (ARAP) PERMIT OR SECTION 401 CERTIFICATION (5.5.1.h). REFER TO THE LIST OF APPLICABLE ENVIRONMENTAL PERMITS LOCATED ON SWPPP SHEET S-7. ALL PERMITS WILL BE MAINTAINED ON SITE WITHIN THE "DOCUMENTATION AND PERMITS" BINDER.

5.12. THE EPSC CONTROL MEASURES LISTED IN THE QUANTITIES TABLE ON SHEET 2, 2A, 2A1 & 2M7 HAVE BEEN SELECTED IN ACCORDANCE WITH TDOT STANDARD DRAWINGS AND GOOD ENGINEERING PRACTICES (5.1., 5.5.3.1.b, 5.5.3.5.).

5.13. EPSC MEASURES SHALL BE INSTALLED PER TDOT STANDARDS (i.e. STANDARD DRAWINGS) AND SHALL BE FUNCTIONAL PRIOR TO ANY EARTH MOVING OPERATIONS.

5.14. EPSC MEASURES WILL NOT BE INSTALLED WITHIN A STREAM WITHOUT FIRST OBTAINING APPROVAL FROM THE PERMITS SECTION.

5.15. TEMPORARY EPSC MEASURES MAY BE REMOVED AT THE BEGINNING OF THE WORKDAY, BUT MUST BE REINSTALLED AT THE END OF THE WORKDAY OR BEFORE A PRECIPITATION EVENT.

5.16. EPSC MEASURES LOCATED IN WOTUS (EPHEMERAL STREAMS) MUST BE CONSIDERED TEMPORARY AND SHALL BE REMOVED AT THE END OF CONSTRUCTION.

5.17. THE CONTRACTOR SHALL ESTABLISH AND MAINTAIN A PROACTIVE METHOD TO PREVENT THE OFF-SITE MIGRATION OR DEPOSIT OF SEDIMENT OFF THE PROJECT LIMITS (E.G. R.O.W., EASEMENTS, ETC.), INTO WATERS OF THE STATE/U.S., OR ONTO ROADWAYS USED BY THE PUBLIC. IF SEDIMENT ESCAPES THE CONSTRUCTION SITE, OFF-SITE ACCUMULATIONS OF SEDIMENT THAT HAVE NOT REACHED A STREAM MUST BE REMOVED TO A LEVEL SUFFICIENT TO MINIMIZE OFF-SITE IMPACTS (E.G., FUGITIVE SEDIMENT THAT HAS ESCAPED THE CONSTRUCTION SITE AND HAS COLLECTED IN A STREET MUST BE REMOVED SO THAT IT IS NOT SUBSEQUENTLY WASHED INTO STORM SEWERS AND STREAMS BY THE NEXT RAIN AND/OR SO THAT IT DOES NOT POSE A SAFETY HAZARD TO USERS OF PUBLIC STREETS). ARRANGEMENTS CONCERNING REMOVAL OF SEDIMENT ON ADJOINING PROPERTY MUST BE SETTLED WITH THE ADJOINING PROPERTY OWNER BEFORE REMOVAL OF SEDIMENT. SEDIMENT THAT MIGRATES INTO WATERS OF THE STATE/US SHALL NOT BE REMOVED WITHOUT GUIDANCE FROM TDOT ENVIRONMENTAL PERSONNEL.

5.18. OFFSITE VEHICLE TRACKING OF SEDIMENTS AND THE GENERATION OF DUST SHALL BE MINIMIZED. A STABILIZED CONSTRUCTION EXIT (A POINT OF ENTRANCE/EXIT TO THE CONSTRUCTION PROJECT) SHALL BE PROVIDED TO REDUCE THE TRACKING OF MUD AND DIRT ONTO PUBLIC ROADS BY CONSTRUCTION VEHICLES.

5.19. THE QUANTITIES REQUIRED FOR STABILIZED CONSTRUCTION EXITS PER TDOT STANDARDS HAVE BEEN SPECIFIED ON SHEET 2, 2A & 2A1 (5.5.3.1.j).

5.20. DISCHARGES FROM DEWATERING ACTIVITIES ARE PROHIBITED UNLESS MANAGED BY APPROPRIATE CONTROLS THAT PROVIDE THE LEVEL OF TREATMENT (FILTRATION) NECESSARY TO COMPLY WITH PERMIT REQUIREMENTS. (4.1.3.).

5.21. SETTLING BASINS AND SEDIMENT TRAPS SHALL BE PROPERLY DESIGNED PER THE SIZE OF THE DRAINAGE AREAS OR VOLUME OF WATER TO BE TREATED. TREATED WATER MUST BE DISCHARGED THROUGH A PIPE OR WELL VEGETATED OR LINED CHANNEL, SO THAT THE DISCHARGE DOES NOT CAUSE EROSION OR SEDIMENT TRANSPORT.

5.22. DISCHARGES FROM SEDIMENT BASINS AND IMPOUNDMENTS SHALL UTILIZE OUTLET STRUCTURES THAT ONLY WITHDRAW WATER FROM NEAR THE SURFACE OF THE BASIN OR IMPOUNDMENT. TREATED WATER MUST BE DISCHARGED THROUGH A PIPE, WELL- VEGETATED AND/OR LINED CHANNEL, SO THAT THE DISCHARGE DOES NOT CAUSE EROSION OR SEDIMENT TRANSPORT. (5.5.3.5.).

5.23. THE DEWATERING OF WORK AREAS, TRENCHES, FOUNDATIONS, EXCAVATIONS, ETC. THAT HAVE COLLECTED STORMWATER, WATER FROM VEHICLE WASH AREAS, OR GROUNDWATER SHALL BE EITHER HELD IN SETTLING BASINS OR TREATED BY FILTRATION AND/OR CHEMICAL TREATMENT PRIOR TO ITS DISCHARGE. ALL CHEMICAL TREATMENTS MUST BE APPLIED PER SECTION 6 FLOCCULANTS.

5.24. WATER DISCHARGED FROM DEWATERING ACTIVITIES SHALL NOT CAUSE AN OBJECTIONABLE COLOR CONTRAST WITHIN THE RECEIVING NATURAL RESOURCE. WATER MUST BE HELD WITHIN SETTLING BASINS UNTIL IT IS AT LEAST AS CLEAR AS THE RECEIVING WATERS.

5.25. DEWATERING STRUCTURES, SEDIMENT FILTER BAGS, SEDIMENT BASINS AND TRAPS SHALL NOT BE LOCATED CLOSER THAN 30 FEET (60 FEET DESIRABLE VEGETATIVE BUFFER) FOR WATERS WITH UNAVAILABLE PARAMETERS AND EXCEPTIONAL TENNESSEE WATERS (ETW) AND 15 FEET (30 FEET DESIRABLE VEGETATIVE BUFFER) FOR ALL OTHER FEATURES FROM THE TOP BANK OF A STREAM, WOTUS (EPHEMERAL), WETLAND OR OTHER NATURAL RESOURCE AND SHALL BE PROPERLY DESIGNED PER THE SIZE OF THE DRAINAGE AREAS OR VOLUME OF WATER TO BE TREATED.

5.26. STABILIZATION PRACTICES: PRE-CONSTRUCTION VEGETATIVE COVER WILL NOT BE DESTROYED, REMOVED OR DISTURBED MORE THAN 2 WEEKS PRIOR TO GRADING OR EARTH MOVING UNLESS THE AREA WILL BE SEEDED AND/OR MULCHED OR OTHER TEMPORARY COVER IS INSTALLED (5.5.3.5.f).

5.27. STABILIZATION MEASURES WILL BE INITIATED AS SOON AS POSSIBLE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. TEMPORARY OR PERMANENT STABILIZATION WILL BE COMPLETED WITHIN 2 WEEKS AFTER ACTIVITY HAS TEMPORARILY OR PERMANENTLY CEASED IN THAT AREA. PERMANENT STABILIZATION WILL REPLACE TEMPORARY MEASURES AS SOON AS PRACTICABLE (5.5.3.4.).

5.28. PRIORITY SHALL BE GIVEN TO FINISHING OPERATIONS AND PERMANENT EPSC MEASURES OVER TEMPORARY EPSC MEASURES ON ALL PROJECTS. UNPACKED GRAVEL CONTAINING FINES (SILT AND CLAY SIZED PARTICLES) OR CRUSHER-RUN WILL NOT BE CONSIDERED A NON-ERODIBLE SURFACE

5.29. DELAYING THE PLANTING OF COVER VEGETATION UNTIL WINTER MONTHS OR DRY MONTHS SHOULD BE AVOIDED, IF POSSIBLE.

5.30. STEEP SLOPES SHALL BE TEMPORARILY STABILIZED NOT LATER THAN 1 WEEK AFTER CONSTRUCTION ACTIVITY ON THE SLOPE HAS TEMPORARILY OR PERMANENTLY CEASED. (5.5.3.4.).

6. FLOCCULANTS (3.5.3.1.b)

IS ADDITIONAL PHYSICAL OR CHEMICAL TREATMENT OF STORMWATER RUNOFF NECESSARY (5.5.3.5.)? ☐ YES ☒ NO

IF YES, THE FOLLOWING NOTES APPLY:

6.1. ENSURE THE FLOCCULANT EMULSIONS AND POWDERS ARE OF THE ANIONIC TYPE (5.5.3.5.). AND MEET THE FOLLOWING REQUIREMENTS:

6.1.1. MEETS THE EPA AND FDA ACRYLAMIDE MONOMER LIMITS OF EQUAL TO OR GREATER THAN 0.005% ACRYLAMIDE MONOMER.

6.1.2. HAS A DENSITY OF 10% TO 55% BY WEIGHT AND A MOLECULAR WEIGHT OF 16 TO 24 MG/MOLE (MILLIGRAM PER MOLE).

6.1.3. MIXTURE IS NON-COMBUSTIBLE.

6.1.4. CONTAINS ONLY MANUFACTURER'S RECOMMENDED ADDITIVES.

6.2. FLOCCULANT SHALL BE MIXED AND APPLIED IN ACCORDANCE WITH ALL OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) MATERIAL SAFETY DATA SHEET REQUIREMENTS AND THE MANUFACTURER'S RECOMMENDATIONS FOR THE SPECIFIED USES CONFORMING TO ALL FEDERAL, STATE, AND LOCAL LAWS, RULES, AND REGULATIONS.

6.3. ALL VENDORS AND SUPPLIERS OF FLOCCULANT BLENDS SHALL PRESENT OR SUPPLY A WRITTEN TOXICITY REPORT WHICH VERIFIES ACCEPTABLE TOXICITY PARAMETERS WHICH MEET OR EXCEED THE EPS REQUIREMENTS FOR THE STATE AND FEDERAL WATER QUALITY STANDARDS. WHOLE EFFLUENT TESTING DOES NOT MEET THIS REQUIREMENT AS PRIMARY REACTIONS HAVE OCCURRED AND TOXIC POTENTIALS HAVE BEEN REDUCED. CATIONIC FORMS OF FLOCCULANTS ARE NOT ALLOWED UNDER THIS SECTION DUE TO HIGH LEVELS OF TOXICITY TO AQUATIC ORGANISMS. FLOCCULANT EMULSIONS SHALL NEVER BE APPLIED DIRECTLY TO STORMWATER RUNOFF OR RIPARIAN WATERS DUE TO SURFACTANT TOXICITY. THE CONTRACTOR MUST SEEK THE APPROVAL OF THE EPSC DESIGN ENGINEER AND TDOT IF CHITOSAN IS PROPOSED FOR THIS PROJECT.

6.4. ALL VENDORS AND SUPPLIERS OF FLOCCULANT BLENDS SHALL SUPPLY WRITTEN "SITE SPECIFIC" TESTING RESULTS DEMONSTRATING A PERFORMANCE OF 95% OR GREATER REDUCTION OF NTU OR TSS FROM STORMWATER DISCHARGES.

6.5. EMULSION BATCHES SHALL BE MIXED FOLLOWING RECOMMENDATIONS OF THE TESTING LABORATORY THAT DETERMINES THE PROPER PRODUCT AND RATE TO MEET SITE REQUIREMENTS. APPLICATION METHODS SHALL ENSURE UNIFORM COVERAGE TO THE TARGET AREA. EMULSIONS SHALL NEVER BE APPLIED DIRECTLY TO STORMWATER RUNOFF OR RIPARIAN BUFFERS.

6.6. FLOCCULANT POWDER MAY BE APPLIED BY A HAND OR MECHANICAL SPREADER. MIXING OF THE FLOCCULANT POWDER WITH DRY SILICA SAND WILL AID IN SPREADING.

6.7. PREMIXING OF FLOCCULANT POWDER INTO FERTILIZER, SEED, OR OTHER SOIL AMENDMENTS IS ALLOWED WHEN SPECIFIED IN THE DESIGN PLAN. APPLICATION METHOD SHALL ENSURE UNIFORM COVERAGE TO THE TARGET AREA.

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6.8. FLOCCULANT LOGS OR BLOCKS SHALL BE APPLIED FOLLOWING SITE TESTING RESULTS TO ENSURE PROPER PLACEMENT AND PERFORMANCE AND SHALL MEET OR EXCEED STATE AND FEDERAL WATER QUALITY REQUIREMENTS.

6.9. DO NOT APPLY FLOCCULANTS DIRECTLY TO, OR WITHIN 60 FEET, OF ANY STREAMS, WETLANDS, OR OTHER NATURAL WATER RESOURCE LOCATED ON OR ADJACENT TO THE CONSTRUCTION SITE. DO NOT APPLY FLOCCULANTS DIRECTLY INTO WATERS CONTAINED WITHIN SEDIMENT PONDS OR TO SLOPES THAT PRODUCE RUNOFF DIRECTLY INTO A STREAM, WETLAND, OR OTHER NATURAL WATER RESOURCE. DO NOT APPLY FLOCCULANTS IMMEDIATELY AT A STORMWATER OUTFALL WHERE RUNOFF LEAVES THE PROJECT LIMITS.

7. UTILITY RELOCATION

ARE UTILITIES INCLUDED IN THE CONTRACT? ☒ YES ☐ NO

IF YES, THE FOLLOWING APPLY:

7.1. STORMWATER WHICH COLLECTS IN THE UTILITY TRENCH SHALL BE PUMPED INTO A DEWATERING STRUCTURE OR SEDIMENT FILTER BAG AND TREATED PRIOR TO DISCHARGE.

7.2. SILT FENCE SHALL BE INSTALLED ON THE DOWNGRADIENT SIDE OF STOCKPILED SOIL. ANY TRENCHING ACROSS WET WEATHER CONVEYANCES SHALL BE DONE DURING DRY CONDITIONS, REMOVED AND STABILIZED BY THE END OF THE WORK DAY.

7.3. UTILITY CROSSINGS IN ENVIRONMENTAL FEATURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH TDOT STANDARDS AND NO WORK SHALL BE CONDUCTED IN FLOWING WATERS. ENVIRONMENTAL PERMITS APPLY TO UTILITIES IN THIS PROJECT. THE STATE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF THE PERMITS.

7.4. IT IS THE RESPONSIBILITY OF THE STATE UTILITY CONTRACTOR TO PROTECT EXPOSED EARTH FROM EROSION AND TO PROVIDE FOR CONTAINMENT OF SEDIMENT THAT MAY RESULT FROM THEIR WORK. PRIOR TO BEGINNING WORK, ADEQUATE EPSC MEASURES MUST BE IN PLACE TO TRAP ANY SEDIMENT THAT MAY TRAVEL OFF-SITE IN THE EVENT OF RAIN. DURING THE PROGRESSION OF THEIR WORK, EXPOSED EARTH AREAS SHALL BE STABILIZED AS SOON AS POSSIBLE TO PREVENT EROSION. AT NO TIME, SHALL EXPOSED EARTH RESULTING FROM THEIR OPERATIONS HAVE UNPROTECTED ACCESS TO FLOWING OFF-SITE AND ENTERING WATERS OF THE STATE/U.S.

7.5. 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 FOURTEEN DAYS AFTER BEING BACKFILLED. ANY TEMPORARY SPOILS OF EXCAVATED EARTH SHALL BE LOCATED WITHIN TDOT EPSC MEASURES OR RECEIVE SEPARATE EPSC MEASURES. IF TRENCHES ARE NOT BACKFILLED OVERNIGHT, APPROPRIATE EPSC MEASURES WILL BE INSTALLED BY THE STATE UTILITY CONTRACTOR UNTIL THE TRENCH IS BACKFILLED.

7.6. IN REGARDS TO EPSC, TDEC REGULATIONS APPLY TO THE STATE UTILITY CONTRACTORS ON THIS PROJECT. THE STATE CONTRACTOR IS RESPONSIBLE FOR EPSC MEASURES RELATED TO UTILITY CONSTRUCTION INCLUDED IN THE STATE CONTRACT.

7.7. TRENCHES FORMED FOR THE INSTALLATION OF BURIED UTILITIES MAY CAUSE STORMWATER RUNOFF TO CONCENTRATE AT THE TRENCH LINE. ADDITIONAL EPSC MEASURES MAY BE REQUIRED TO BE INSTALLED AS APPROVED BY THE TDOT PROJECT ENGINEER.

7.8. FOR THE INSTALLATION OF UNDERGROUND UTILITIES OUTSIDE OF THE TDOT RIGHT-OF-WAY, EPSC MEASURES SHALL BE INSTALLED PRIOR TO CLEARING (TRENCHING AND ASSOCIATED BLASTING) IN THOSE AREAS NECESSARY TO PREVENT SEDIMENT FROM LEAVING THE CONSTRUCTION AREA. THESE EPSC MEASURES SHALL REMAIN UNTIL THE BACKFILLED TRENCH IS STABILIZED WITH PERMANENT VEGETATIVE COVER.

7.9. THE UTILITY CONTRACTOR SHALL RESTORE ALL AFFECTED WET WEATHER CONVEYANCES TO THE EXISTING TOPOGRAPHIC CONDITIONS AS APPROVED BY THE TDOT RESPONSIBLE PARTY.

7.10. THE UTILITY CONTRACTOR WILL PROVIDE APPROPRIATE EPSC MEASURES TO REPLACE ONSITE EPSC MEASURES REMOVED TO FACILITATE THE INSTALLATION OF UTILITIES. REPLACEMENT OF EPSC MEASURES WILL BE COORDINATED WITH THE TDOT ENGINEER BEFORE COMMENCING WORK.

7.11. FOR UTILITY CROSSINGS THAT UTILIZE HORIZONTAL DIRECTIONAL DRILLING THE FOLLOWING SHALL APPLY:

7.11.1. THE ENTRY AND EXIT POINTS SHALL BE AT LEAST 50 FEET FROM THE STREAM BANK OR WETLAND BOUNDARY.

7.11.2. THE DEPTH OF BORE BELOW THE STREAMBED IS SUFFICIENT TO PREVENT RELEASE OF DRILLING FLUID, BASED ON THE PARENT MATERIAL.

7.11.3. A SITE-SPECIFIC CONTINGENCY AND CONTAINMENT PLAN FOR INADVERTENT RELEASE OF DRILLING FLUID SHALL BE ESTABLISHED PRIOR TO COMMENCEMENT OF WORK. THIS PLAN SHALL BE SUBMITTED TO THE TDOT PROJECT ENGINEER AND THE TDOT ENVIRONMENTAL DIVISION PERMITS AND/OR COMPLIANCE AND FIELD SERVICES OFFICE FOR REVIEW AND APPROVAL.

8. MAINTENANCE AND INSPECTION

8.1. INSPECTION PRACTICES (5.5.3.9.)

8.1.1. PROJECT EPSC INSPECTORS AND ENGINEERS (INCLUDING TDOT STAFF, CONSULTANTS AND CONTRACTOR STAFF) RESPONSIBLE FOR THE INSPECTION, IMPLEMENTATION, MAINTENANCE. AND/OR REPAIR OF EPSC MEASURES SHALL MEET ONE OF THE FOLLOWING REQUIREMENTS (5.5.3.10.):

8.1.1.1. SUCCESSFULLY COMPLETED THE TDOT EPSC INSPECTIONS TRAINING AND ANY RECERTIFICATION COURSE AS REQUIRED.

8.1.1.2. SUCCESSFULLY COMPLETED THE TDEC “LEVEL I - FUNDAMENTALS OF EROSION PREVENTION AND SEDIMENT CONTROL” COURSE AND ANY RECERTIFICATION COURSES AS REQUIRED.

8.1.1.3. BE A CURRENT TN LICENSED PROFESSIONAL ENGINEER OR LANDSCAPE ARCHITECT.

8.1.1.4. BE A CURRENT CERTIFIED PROFESSIONAL IN EROSION AND SEDIMENT CONTROL (CPESC).

8.1.1.5. SUCCESSFULLY COMPLETED TDEC “LEVEL II – DESIGN PRINCIPLES FOR EROSION PREVENTION AND SEDIMENT CONTROL FOR CONSTRUCTION SITES” COURSE AND ANY RECERTIFICATION COURSE AS REQUIRED.

8.1.2. THE TDOT CONSTRUCTION ENGINEER (OR THEIR DULY AUTHORIZED REPRESENTATIVE) AND THE CONTRACTOR’S SITE SUPERINTENDENT ARE RESPONSIBLE FOR INSPECTIONS. MAINTENANCE AND REPAIR ACTIVITIES ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE TDOT CONSTRUCTION ENGINEER OR THEIR DULY AUTHORIZED REPRESENTATIVE SHALL COMPLETE THE EPSC INSPECTION REPORTS AND DISTRIBUTE COPIES PER THE CONTRACT.

8.1.3. THE INSPECTOR SHALL CONDUCT PRE-CONSTRUCTION INSPECTIONS TO VERIFY AREAS THAT ARE NOT TO BE DISTURBED HAVE BEEN MARKED IN THE SWPPP AND IN THE FIELD BEFORE LAND DISTURBANCE ACTIVITIES BEGIN AND INITIAL MEASURES HAVE BEEN INSTALLED (10 “INSPECTOR”) (5.5.1.f).

8.1.4. EPSC CONTROLS SHALL BE INSPECTED TO VERIFY MEASURES HAVE BEEN INSTALLED AND MAINTAINED IN ACCORDANCE WITH TDOT STANDARD DRAWINGS, SPECIFICATIONS, AND GOOD ENGINEERING PRACTICES. EPSC INSPECTIONS SHALL BE DOCUMENTED ON THE TDOT EPSC INSPECTION REPORT FORM AND THE TDEC CONSTRUCTION STORMWATER INSPECTION CERTIFICATION (TWICE-WEEKLY INSPECTIONS) FORM.

8.1.5. OUTFALL POINTS SHALL BE INSPECTED TO ASCERTAIN WHETHER EPSC MEASURES ARE EFFECTIVE IN PREVENTING EROSION AND CONTROLLING SEDIMENT INCLUDING SIGNIFICANT IMPACTS TO SURROUNDING STATE WATERS, WOTUS (EPHEMERAL), WETLANDS, OTHER NATURAL RESOURCES AND ADJACENT PROPERTY OWNERS. WHERE DISCHARGE LOCATIONS ARE INACCESSIBLE, NEARBY DOWN GRADIENT LOCATIONS SHALL BE INSPECTED. LOCATIONS WHERE VEHICLES ENTER AND EXIT THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFF-SITE ROADWAY SEDIMENT TRACKING.

8.1.6. INSPECTIONS WILL BE CONDUCTED AT LEAST TWICE EVERY CALENDAR WEEK AND AT LEAST 72 HOURS APART (5.5.3.11.a). A CALENDAR WEEK IS DEFINED AS SUNDAY THROUGH SATURDAY. QUALITY ASSURANCE INSPECTIONS OF TDOT EPSC, NPDES AND WATER QUALITY PERMIT REQUIREMENTS SHALL BE PERFORMED PER THE TDOT ENVIRONMENTAL DIVISION COMPLIANCE AND FIELD SERVICES OFFICE.

8.1.7. THE FREQUENCY OF EPSC INSPECTIONS MAY BE REDUCED TO ONCE A MONTH WHERE SITES OR PORTIONS OF SITES HAVE BEEN TEMPORARILY STABILIZED UNTIL CONSTRUCTION ACTIVITIES RESUME WITH WRITTEN NOTIFICATION BY THE TDOT REGIONAL ENGINEER TO TDEC NASHVILLE CENTRAL OFFICE AND SUBSEQUENT TDEC APPROVAL. WRITTEN NOTIFICATION MUST INCLUDE THE INTENT TO CHANGE FREQUENCY AND JUSTIFICATION (5.5.3.11.a).

8.1.8. ALL DISTURBED AREAS OF THE SITE THAT HAVE NOT BEEN PERMANENTLY STABILIZED, AREAS USED FOR MATERIAL STORAGE THAT ARE EXPOSED TO PRECIPITATION, STRUCTURAL CONTROL MEASURES, AND LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE, AND EACH OUTFALL WILL BE INSPECTED (5.5.3.11.b).

8.1.9. THE INSPECTOR WILL OVERSEE THE REQUIREMENTS OF OTHER CONSTRUCTION-RELATED WATER QUALITY PERMITS (I.E. TDEC ARAP, USACE SECTION 404, AND TVA SECTION 26a PERMITS) FOR CONSTRUCTION ACTIVITIES AROUND WATERS OF THE STATE (10 “INSPECTOR”).

8.1.10. THE SWPPP WILL BE REVISED AS NECESSARY BASED ON THE RESULTS OF THE INSPECTION. REVISION(S) WILL BE RECORDED WITHIN 1 WEEK OF THE INSPECTION. REVISION(S) WILL BE IMPLEMENTED WITHIN 2 WEEKS OF THE INSPECTION (5.5.3.11.e AND 5.5.3.11.f).

8.1.11. DOCUMENTATION OF INSPECTIONS WILL BE MAINTAINED ON SITE IN THE “DOCUMENTATION AND PERMITS” BINDER. REPORTS WILL BE SUBMITTED TO THE TDOT PROJECT ENGINEER PER THE CONTRACT.

8.1.12. THESE INSPECTION REQUIREMENTS DO NOT APPLY TO DEFINABLE AREAS OF THE SITE THAT HAVE MET PERMANENT STABILIZATION REQUIREMENTS AND HAVE BEEN NOTED IN THE SWPPP.

8.1.13. TRAINED CERTIFIED INSPECTORS SHALL COMPLETE INSPECTION TO THE BEST OF THEIR ABILITY. FALSIFYING INSPECTION RECORDS OR OTHER DOCUMENTATION OR FAILURE TO COMPLETE INSPECTION DOCUMENTATION SHALL RESULT IN A VIOLATION OF THIS PERMIT AND ANY OTHER APPLICABLE ACTS OR RULES (5.5.3.11.h).

8.2. DULY AUTHORIZED REPRESENTATIVE (8.7.3.)

THE PROJECT ENGINEER MAY DELEGATE AN INDIVIDUAL AND/OR CONSULTANT TO SIGN EPSC INSPECTIONS REPORTS. FOR SATISFYING SIGNATORY REQUIREMENTS FOR EPSC INSPECTION REPORTS, THE PROJECT ENGINEER AND NEWLY AUTHORIZED INDIVIDUAL ACCEPTING RESPONSIBILITY MUST COMPLETE AND SIGN THE TDOT CONSTRUCTION DIVISION EPSC DELEGATION OF AUTHORITY.

8.3. MAINTENANCE PRACTICES (5.1 AND 8.13.)

8.3.1. ALL CONTROLS WILL BE MAINTAINED IN GOOD AND EFFECTIVE OPERATING ORDER AND IN ACCORDANCE WITH TDOT STANDARD DRAWINGS AND GOOD ENGINEERING PRACTICES. (5.1. AND 5.5.3.1.b)

8.3.2. MAINTENANCE AND REPAIR ACTIVITIES ARE THE RESPONSIBILITY OF THE CONTRACTOR.

8.3.3. UPON CONCLUSION OF THE INSPECTIONS, EPSC MEASURES FOUND TO BE INEFFECTIVE SHALL BE REPAIRED, REPLACED, OR MODIFIED BEFORE THE NEXT RAIN EVENT, IF POSSIBLE, BUT IN NO CASE, MORE THAN 24 HOURS AFTER THE INSPECTION OR WHEN THE CONDITION IS IDENTIFIED. IF THE REPAIR, REPLACEMENT OR MODIFICATION IS NOT PRACTICAL WITHIN THE 24-HOUR TIMEFRAME, WRITTEN DOCUMENTATION PROVIDED BY THE CONTRACTOR SHALL BE PLACED IN THE FIELD DIARY AND EPSC INSPECTION REPORT. AN ESTIMATED REPAIR, REPLACEMENT OR MODIFICATION SCHEDULE SHALL BE DOCUMENTED WITHIN 24 HOURS AFTER IDENTIFICATION. (5.5.3.11.e).

8.3.4. SEDIMENT SHALL BE REMOVED FROM SEDIMENT CONTROL STRUCTURES (SEDIMENT TRAPS, SILT FENCE, SEDIMENT BASINS, OTHER CONTROLS, ETC.) WHEN THE DESIGN CAPACITY HAS BEEN REDUCED BY FIFTY PERCENT (50%). (5.5.3.1.d).

8.3.5. DURING SEDIMENT REMOVAL, THE CONTRACTOR SHALL TAKE STEPS TO ENSURE THAT STRUCTURAL COMPONENTS OF EPSC MEASURES ARE NOT DAMAGED AND THUS MADE INEFFECTIVE. IF DAMAGE DOES OCCUR, THE CONTRACTOR SHALL REPAIR THE EPSC MEASURES AT THE CONTRACTOR'S OWN EXPENSE.

8.3.6. CHECK DAMS WILL BE INSPECTED FOR STABILITY. SEDIMENT WILL BE REMOVED WHEN DEPTH REACHES ONE-HALF (½) THE HEIGHT OF THE DAM.

8.3.7. SEDIMENT REMOVED FROM SEDIMENT CONTROL STRUCTURES SHALL BE PLACED AND TREATED IN A MANNER SO THAT THE SEDIMENT IS CONTAINED WITHIN THE PROJECT LIMITS, DOES NOT MIGRATE INTO FEATURES REMOVED FROM, AND DOES NOT

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MIGRATE ONTO ADJACENT PROPERTIES AND/OR INTO WATERS OF THE STATE/U.S.

8.3.8. LITTER, CONSTRUCTION DEBRIS, AND CONSTRUCTION CHEMICALS EXPOSED TO STORMWATER WILL BE PICKED UP AND REMOVED FROM STORMWATER EXPOSURE PRIOR TO ANTICIPATED STORM EVENTS OR BEFORE BEING CARRIED OFF THE SITE BY WIND, OR OTHERWISE PREVENTED FROM BECOMING A POLLUTANT SOURCE FOR STORMWATER DISCHARGES. AFTER USE, MATERIALS USED FOR EROSION CONTROL WILL BE REMOVED (5.5.3.7.a).

8.3.9. ALL SEEDED AREAS WILL BE CHECKED FOR BARE SPOTS, EROSION WASHOUTS, AND VIGOROUS GROWTH FREE OF SIGNIFICANT WEED INFESTATIONS.

9. SITE ASSESSMENTS (5.5.3.8.)

QUALITY ASSURANCE SITE ASSESSMENTS OF EROSION PREVENTION AND SEDIMENT CONTROLS SHALL BE PERFORMED PER THE TDOT ENVIRONMENTAL DIVISION COMPLIANCE AND FIELD SERVICES OFFICE GUIDELINES.

10. STORMWATER MANAGEMENT (5.5.3.11.h)

10.1. STORMWATER MANAGEMENT WILL BE HANDLED BY TEMPORARY CONTROLS OUTLINED IN THIS SWPPP AND ANY PERMANENT CONTROLS NEEDED TO MEET PERMANENT STORMWATER MANAGEMENT NEEDS IN THE POST CONSTRUCTION PERIOD. PERMANENT CONTROLS WILL BE DEPICTED ON THE PLANS AND NOTED AS PERMANENT.

10.2. DESCRIBE ANY SPECIFIC POST-CONSTRUCTION MEASURES THAT WILL CONTROL VELOCITY, POLLUTANTS, AND/OR EROSION (5.5.3.6.c): N/A

10.3. OTHER ITEMS NEEDING CONTROL (5.5.3.7.)

CONSTRUCTION MATERIALS: THE FOLLOWING MATERIALS OR SUBSTANCES ARE EXPECTED TO BE PRESENT ON THE SITE DURING THE CONSTRUCTION PERIOD. (CHECK ALL THAT APPLY).

- ☒ LUMBER, GUARDRAIL, TRAFFIC CONTROL DEVICES
- ☒ CONCRETE WASHOUT
- ☒ PIPE CULVERTS (I.E. CONCRETE, CORRUGATED METAL, HDPE, ETC.)
- ☒ MINERAL AGGREGATES, ASPHALT
- ☒ EARTH
- ☐ LIQUID TRAFFIC STRIPING MATERIALS, PAINT
- ☐ ROCK
- ☐ CURING COMPOUND
- ☐ EXPLOSIVES
- ☐ OTHER N/A

THESE MATERIALS WILL BE HANDLED AS NOTED IN THIS SWPPP.

10.4. WASTE MATERIALS (5.5.3.7.c)

WASTE MATERIAL (EARTH, ROCK, ASPHALT, CONCRETE, ETC.) NOT REQUIRED FOR THE CONSTRUCTION OF THE PROJECT WILL BE DISPOSED OF BY THE CONTRACTOR IN ACCORDANCE WITH THE TDOT CONSTRUCTION CONTRACT AND FEDERAL AND STATE REGULATIONS. IMPACTS TO WATERS OF THE STATE/U.S. SHALL BE AVOIDED IF POSSIBLE. IF UNAVOIDABLE, THE CONTRACTOR WILL OBTAIN ALL NECESSARY PERMITS INCLUDING, BUT NOT LIMITED TO NPDES, AQUATIC RESOURCES ALTERATION PERMIT(S) CORPS OF ENGINEERS SECTION 404 PERMITS, AND TVA SECTION 26A PERMITS TO DISPOSE OF WASTE MATERIALS.

10.5. HAZARDOUS WASTE (5.5.3.7.c) (8.8)

ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN A MANNER WHICH IS COMPLIANT WITH LOCAL OR STATE REGULATIONS. SITE PERSONNEL WILL BE INSTRUCTED IN THESE PRACTICES, AND THE INDIVIDUAL DESIGNATED AS THE CONTRACTOR'S ON-SITE REPRESENTATIVE WILL BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED. THE CONTRACTOR WILL OBTAIN ALL NECESSARY PERMITS TO DISPOSE OF HAZARDOUS MATERIAL.

10.6. SANITARY WASTE (5.5.3.7.b)

PORTABLE SANITARY FACILITIES WILL BE PROVIDED ON ALL CONSTRUCTION SITES. SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS IN A TIMELY MANNER BY A LICENSED WASTE MANAGEMENT CONTRACTOR OR AS REQUIRED BY ANY LOCAL REGULATIONS. THE CONTRACTOR WILL OBTAIN ALL NECESSARY PERMITS TO DISPOSE OF SANITARY WASTE.

10.7. OTHER MATERIALS

THE FOLLOWING MATERIALS OR SUBSTANCES ARE EXPECTED TO BE PRESENT ON THE SITE DURING THE CONSTRUCTION PERIOD. (CHECK ALL THAT APPLY).

- ☒ FERTILIZERS AND LIME
- ☐ PESTICIDES AND/OR HERBICIDES
- ☒ DIESEL AND GASOLINE
- ☒ MACHINERY LUBRICANTS (OIL AND GREASE)

THESE MATERIALS WILL BE HANDLED AS NOTED IN THIS SWPPP.

11. NON-STORMWATER DISCHARGES (5.5.3.12.)

11.1. THE FOLLOWING NON-STORMWATER DISCHARGES ARE ANTICIPATED DURING THE CONSTRUCTION OF THIS PROJECT (CHECK ALL THAT APPLY):

- ☒ DEWATERING OF WORK AREAS OF COLLECTED STORMWATER AND GROUND WATER.
- ☒ WATERS USED TO WASH VEHICLES (OF DUST AND SOIL) WHERE DETERGENTS ARE NOT USED AND DETENTION AND/OR FILTERING IS PROVIDED BEFORE THE WATER LEAVES THE SITE.
- ☒ WATER USED TO CONTROL DUST. (3.5.3.1.n)
- ☐ POTABLE WATER SOURCES INCLUDING WATERLINE FLUSHING FROM WHICH CHLORINE HAS BEEN REMOVED TO THE MAXIMUM EXTENT PRACTICABLE.
- ☒ UNCONTAMINATED GROUNDWATER OR SPRING WATER.
- ☐ FOUNDATION OR FOOTING DRAINS WHERE FLOWS ARE NOT CONTAMINATED WITH POLLUTANTS.
- ☐ OTHER: N/A

11.2. ALL ALLOWABLE NON-STORMWATER DISCHARGES WILL BE DIRECTED TO STABLE DISCHARGE STRUCTURES PRIOR TO LEAVING THE SITE. FILTERING OR CHEMICAL TREATMENT MAY BE NECESSARY PRIOR TO DISCHARGE. ALL CHEMICAL TREATMENTS MUST BE APPLIED PER SECTION 6 FLOCCULANTS.

11.3. THE DESIGN OF ALL IMPACTED EPSC MEASURES RECEIVING FLOW FROM ALLOWABLE NON-STORMWATER DISCHARGES MUST BE DESIGNED TO HANDLE THE VOLUME OF THE NON-STORMWATER COMPONENT.

11.4. WASH DOWN OR WASTE DISCHARGE OF CONCRETE TRUCKS WILL NOT BE PERMITTED ON-SITE UNLESS PROPER SETTLEMENT AREAS HAVE BEEN PROVIDED IN ACCORDANCE WITH BOTH STATE AND FEDERAL REGULATIONS.

11.5. ARE ANY DISCHARGES ASSOCIATED WITH INDUSTRIAL (NON-CONSTRUCTION STORMWATER) ACTIVITY EXPECTED (5.5.1.g)?

☐ YES ☒ NO

IF YES, SPECIFY THE LOCATION OF THE ACTIVITY AND ITS PERMIT NUMBER: N/A

12. SPILL PREVENTION, MANAGEMENT AND NOTIFICATION (5.5.3.7.c, 6.1)

12.1. SPILL PREVENTION (5.5.3.7.c)

12.1.1. CONTRACTOR'S BULK FUEL AND PETROLEUM PRODUCTS STORED ON-SITE OR ADJACENT TO THE R.O.W. IN ABOVE GROUND STORAGE TANKS WITH AGGREGATE STORAGE CAPACITY IN EXCESS OF 1,320 GALLONS SHALL HAVE SECONDARY CONTAINMENT.

12.1.2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING A SPILL PREVENTION CONTROL AND COUNTERMEASURE (SPCC) PLAN AS REQUIRED BY TDOT SPECIAL PROVISION 107FP (REGARDING WATER QUALITY AND STORM WATER PERMITS) AND THE LAW PRIOR TO STORING 1320 GALLONS ON SITE.

12.1.3. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR OBTAINING ANY NECESSARY LOCAL, STATE, AND FEDERAL PERMITS. THE SPCC PLAN AND/OR PERMITS SHALL BE KEPT ON-SITE AND A COPY PROVIDED TO THE TDOT CONSTRUCTION ENGINEER.

12.2. MATERIAL MANAGEMENT

12.2.1. HOUSEKEEPING

ONLY CONSTRUCTION PRODUCTS NEEDED SHALL BE STORED ON-SITE BY THE CONTRACTOR. EXCEPT FOR BULK MATERIALS THE CONTRACTOR WILL STORE ALL MATERIALS UNDER COVER AND IN APPROPRIATE CONTAINERS. PRODUCTS MUST BE STORED IN ORIGINAL CONTAINERS AND LABELED. MATERIAL MIXING WILL BE CONDUCTED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. WHEN POSSIBLE, ALL PRODUCTS WILL BE USED COMPLETELY BEFORE PROPERLY DISPOSING OF THE CONTAINER OFF SITE. THE MANUFACTURER'S DIRECTIONS FOR DISPOSAL OF MATERIALS AND CONTAINERS WILL BE FOLLOWED. THE CONTRACTOR'S SITE SUPERINTENDENT WILL INSPECT MATERIALS STORAGE AREAS REGULARLY TO ENSURE PROPER USE AND DISPOSAL. DUST GENERATED WILL BE CONTROLLED IN AN ENVIRONMENTALLY SAFE MANNER. VEGETATION AREAS NOT ESSENTIAL TO THE CONSTRUCTION PROJECT WILL BE PRESERVED AND MAINTAINED AS NOTED ON THE PLANS.

12.2.2. HAZARDOUS MATERIALS

PRODUCTS MUST BE STORED IN ORIGINAL CONTAINERS UNLESS THE CONTAINER IS NOT RE-SEALABLE. ORIGINAL LABELS AND MATERIAL SAFETY DATA SHEETS WILL BE RETAINED IN A SAFE PLACE TO RELAY IMPORTANT PRODUCT INFORMATION. IF SURPLUS PRODUCT MUST BE DISPOSED OF, MANUFACTURER'S LABEL DIRECTIONS FOR DISPOSAL WILL BE FOLLOWED. MAINTENANCE AND REPAIR OF ALL EQUIPMENT AND VEHICLES INVOLVING OIL CHANGES, HYDRAULIC SYSTEM DRAIN DOWN, DE-GREASING OPERATIONS, FUEL TANK DRAIN DOWN AND REMOVAL, AND OTHER ACTIVITIES WHICH MAY RESULT IN THE ACCIDENTAL RELEASE OF CONTAMINANTS WILL BE CONDUCTED ON AN IMPERVIOUS SURFACE AND UNDER COVER DURING WET WEATHER TO PREVENT THE RELEASE OF CONTAMINANTS ONTO THE GROUND. WHEEL WASH WATER WILL BE COLLECTED AND ALLOWED TO SETTLE OUT SUSPENDED SOLIDS PRIOR TO DISCHARGE. WHEEL WASH WATER WILL NOT BE DISCHARGED DIRECTLY INTO ANY STORMWATER SYSTEM OR STORMWATER TREATMENT SYSTEM. POTENTIAL pH-MODIFYING MATERIALS SUCH AS: BULK CEMENT, CEMENT KILN DUST, FLY ASH, NEW CONCRETE WASHINGS AND CURING WATERS, CONCRETE PUMPING, AND MIXER WASHOUT WATERS WILL BE COLLECTED ON SITE AND MANAGED TO PREVENT CONTAMINATION OF STORMWATER RUNOFF.

12.3. PRODUCT SPECIFIC PRACTICES

12.3.1. PETROLEUM PRODUCTS: ALL ON-SITE VEHICLES WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE. PETROLEUM PRODUCTS WILL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED.

12.3.2. FERTILIZERS: FERTILIZERS WILL BE APPLIED ONLY IN THE AMOUNTS SPECIFIED BY TDOT. ONCE APPLIED, FERTILIZERS WILL BE WORKED INTO THE SOIL TO LIMIT THE EXPOSURE TO STORMWATER. FERTILIZERS WILL BE STORED IN AN ENCLOSED AREA UNDER COVER. THE CONTENTS OF PARTIALLY USED FERTILIZER BAGS WILL BE TRANSFERRED TO SEALABLE CONTAINERS TO AVOID SPILLS.

12.3.3. PAINTS: ALL CONTAINERS WILL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. THE EXCESS WILL BE DISPOSED OF PER THE MANUFACTURER'S INSTRUCTIONS AND APPLICABLE STATE AND LOCAL REGULATIONS.

12.3.4. CONCRETE TRUCKS: CONTRACTORS WILL PROVIDE DESIGNATED TRUCK WASHOUT AREAS ON THE SITE. THESE AREAS MUST BE SELF CONTAINED AND NOT CONNECTED TO ANY STORMWATER OUTLET OF THE SITE, AND PROPERLY SIGNED. UPON COMPLETION OF CONSTRUCTION WASHOUT AREAS WILL BE PROPERLY STABILIZED.

12.4. SPILL MANAGEMENT

IN ADDITION TO THE PREVIOUS HOUSEKEEPING AND MANAGEMENT PRACTICES, THE FOLLOWING PRACTICES WILL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP IF NECESSARY:

12.4.1. ALL ONSITE VEHICLES SHALL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTATIVE MAINTENANCE TO REDUCE THE CHANGE OF LEAKAGE AND SPILLS.

12.4.2. FOR ALL HAZARDOUS MATERIALS STORED ON SITE, THE MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEAN UP WILL BE CLEARLY POSTED. SITE PERSONNEL WILL BE MADE AWARE OF THE PROCEDURES AND THE LOCATIONS OF THE INFORMATION AND CLEANUP SUPPLIES.

12.4.3. APPROPRIATE CLEANUP MATERIALS AND EQUIPMENT WILL BE MAINTAINED BY THE CONTRACTOR IN THE MATERIALS STORAGE AREA ON-SITE AND UNDER COVER. SPILL RESPONSE EQUIPMENT SHALL BE INSPECTED AND MAINTAINED BY THE CONTRACTOR AS

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NECESSARY TO REPLACE ANY MATERIALS USED IN SPILL RESPONSE ACTIVITIES.

12.4.4. ALL SPILLS SHALL BE CLEANED IMMEDIATELY AFTER DISCOVERY AND THE MATERIALS DISPOSED OF PROPERLY. THE SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.

12.4.5. THE CONTRACTOR'S RESPONSIBLE PARTY WILL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT THE SITE SUPERINTENDENT HAS HAD APPROPRIATE TRAINING FOR HAZARDOUS MATERIALS HANDLING, SPILL MANAGEMENT, AND CLEANUP.

12.4.6. IF SPILLS REPRESENT AN IMMINENT THREAT OF ESCAPING THE SITE AND ENTERING RECEIVING WATERS, PERSONNEL WILL RESPOND IMMEDIATELY TO CONTAIN THE RELEASE AND NOTIFY THE SUPERINTENDENT AFTER THE SITUATION HAS BEEN STABILIZED.

12.4.7. IF AN OIL SHEEN IS OBSERVED ON SURFACE WATER (E.G. SETTLING PONDS, DETENTION PONDS, SWALES), ACTION WILL BE TAKEN IMMEDIATELY TO REMOVE THE MATERIAL CAUSING THE SHEEN. THE CONTRACTOR WILL USE APPROPRIATE MATERIALS TO CONTAIN AND ABSORB THE SPILL. THE SOURCE OF THE OIL SHEEN WILL ALSO BE IDENTIFIED AND REMOVED OR REPAIRED AS NECESSARY TO PREVENT FURTHER RELEASES.

12.4.8. IF A SPILL OCCURS THE CONTRACTOR'S RESPONSIBLE PARTY SHALL BE RESPONSIBLE FOR COMPLETING THE SPILL REPORTING FORM AND FOR REPORTING THE SPILL TO THE TDOT PROJECT RESPONSIBLE PARTY. ALL SPILLS MUST BE REPORTED TO THE APPROPRIATE AGENCY, AND MEASURES SHALL BE TAKEN IMMEDIATELY TO PREVENT THE POLLUTION OF WATERS OF THE STATE/U.S., INCLUDING GROUNDWATER, SHOULD A SPILL OCCUR.

12.5. SPILL NOTIFICATION (6.1)

WHERE A RELEASE CONTAINING A HAZARDOUS SUBSTANCE IN AN AMOUNT EQUAL TO, OR MORE THAN A REPORTABLE QUANTITY ESTABLISHED UNDER EITHER 40 CFR 117 OR 40 CFR 302 OCCURS DURING A 24 HOUR PERIOD:

12.5.1. THE TDOT PROJECT ENGINEER IS RESPONSIBLE FOR NOTIFYING THE REGIONAL PROJECT DEVELOPMENT OFFICE (E.G. TRANSPORTATION ENVIRONMENTAL STUDIES SPECIALIST) AS SOON AS HE OR SHE HAS KNOWLEDGE OF THE DISCHARGE.

12.5.2. THE TDOT REGIONAL PROJECT DEVELOPMENT OFFICE WILL NOTIFY THE LOCAL TDEC ENVIRONMENTAL FIELD OFFICE AND ANY OTHER APPLICABLE REGULATORY AGENCIES WITHIN 24 HOURS OF THE SPILL.

12.5.3. IN ADDITION TO ANY FOLLOW UP NOTIFICATIONS REQUIRED BY FEDERAL LAW, A WRITTEN DESCRIPTION OF THE RELEASE, DATE OF RELEASE AND CIRCUMSTANCES LEADING TO THE RELEASE, WHAT ACTIONS WERE TAKEN TO MITIGATE EFFECTS OF THE RELEASE, AND STEPS TAKEN TO MINIMIZE THE CHANCE OF FUTURE OCCURRENCES WILL BE SUBMITTED TO THE APPROPRIATE TDEC ENVIRONMENTAL FIELD OFFICE WITHIN 2 WEEKS OF KNOWLEDGE OF THE RELEASE.

12.5.4. THE SWPPP MUST BE MODIFIED WITHIN 2 WEEKS OF KNOWLEDGE OF THE RELEASE PROVIDING A DESCRIPTION OF THE RELEASE, CIRCUMSTANCES LEADING TO THE RELEASE, AND THE DATE OF RELEASE. THE SWPPP WILL BE REVIEWED AND MODIFIED AS NECESSARY TO IDENTIFY MEASURES TO PREVENT THE REOCCURRENCE OF SUCH RELEASES AND TO RESPOND TO SUCH RELEASES.

13. RECORD-KEEPING

13.1. REQUIRED RECORDS

TDOT OR THEIR DULY AUTHORIZED REPRESENTATIVE WILL MAINTAIN AT THE SITE THE FOLLOWING RECORDS OF CONSTRUCTION ACTIVITIES (7.2.1.) (7.2.1.):

13.1.1. THE DATES WHEN MAJOR GRADING ACTIVITIES OCCUR.

13.1.2. THE DATES WHEN CONSTRUCTION ACTIVITIES TEMPORARILY OR PERMANENTLY CEASE ON A PORTION OF THE SITE.

13.1.3. THE DATES WHEN STABILIZATION MEASURES ARE INITIATED.

13.1.4. RECORDS EPSC INSPECTION REPORTS AND CORRECTIVE MEASURES.

13.1.5. RECORDS OF QUALITY ASSURANCE SITE ASSESSMENTS.

13.1.6. COPY OF SITE EPSC INSPECTOR'S CERTIFICATION AND/OR LICENSING

13.1.7. A COPY OF ANY REGULATORY CORRESPONDENCE REGARDING THE EFFECTIVENESS OF THE SWPPP OR EPSC CONTROLS.

13.2. RAINFALL MONITORING PLAN (7.2.1.):

13.2.1. EQUIPMENT

AT A MINIMUM, THE CONTRACTOR WILL INSTALL A FENCE POST TYPE RAIN GAUGE TO MEASURE RAINFALL. THE STANDARD FENCE POST RAIN GAUGE WILL BE A WEDGE-SHAPED GAUGE THAT MEASURES UP TO 6 INCHES OF RAINFALL. AN ENGLISH SCALE WILL BE PROVIDED ON ONE FACE, WITH A METRIC SCALE ON THE OTHER FACE. GRADUATION WILL BE PERMANENTLY MOLDED IN DURABLE WEATHER-RESISTANT PLASTIC. THE MINIMUM GRADUATION WILL BE 0.01 INCH (OR 0.1MM). AN ALUMINUM BRACKET WITH SCREWS MAY BE USED TO MOUNT THE GAUGE ON A WOODEN SUPPORT.

13.2.2. LOCATION

THE RAIN GAUGE WILL BE LOCATED AT OR ALONG THE PROJECT SITE, AS DEFINED IN THE NOI OF THE NPDES PERMIT, IN AN OPEN AREA SUCH THAT THE MEASUREMENT WILL NOT BE INFLUENCED BY OUTSIDE FACTORS (I.E. OVERHANGS, GUTTER, TREES, ETC.). AT LEAST ONE RAIN GAUGE PER LINEAR MILE IS REQUIRED ALONG (AS MEASURED ALONG THE CENTERLINE OF THE PRIMARY ALIGNMENT) THE PROJECT WHERE CLEARING, GRUBBING, EXCAVATION, GRADING, CUTTING OR FILLING IS ACTIVELY PERFORMED, OR EXPOSED SOIL HAS NOT YET BEEN PERMANENTLY STABILIZED.

13.2.3. METHODS

RAINFALL MONITORING WILL BE INITIATED PRIOR TO CLEARING, GRUBBING, EXCAVATION, GRADING, CUTTING, OR FILLING, EXCEPT AS SUCH MINIMAL CLEARING MAY BE NECESSARY TO INSTALL A RAIN GAUGE IN AN OPEN AREA. THE RAIN GAUGE WILL BE CHECKED FOR OPERATIONAL SOUNDNESS DAILY (DURING NORMAL BUSINESS HOURS) IN WET TIMES AND WEEKLY IN DRY TIMES. GAUGES WILL BE REPAIRED OR REPLACED ON THE SAME DAY IF FOUND TO BE NON-OPERATIONAL OR MISSING.

13.2.4. EACH RAIN GAUGE WILL BE READ (FOR DETAILED RECORDS OF RAINFALL) AND EMPTIED AFTER EVERY RAINFALL EVENT OCCURRING ON THE PROJECT SITE AT APPROXIMATELY THE SAME TIME OF THE DAY (DURING NORMAL BUSINESS HOURS). DURING PERIODS OF DRY CONDITIONS, IT WILL NOT BE NECESSARY TO READ THE RAIN GAUGE EVERY DAY. IN LIEU OF THIS REQUIREMENT ON WEEKENDS AND ON STATE HOLIDAYS, THE RAIN GAUGES CAN BE EMPTIED THE NEXT BUSINESS DAY AND A REFERENCE SITE USED FOR A RECORD OF DAILY AMOUNT OF PRECIPITATION FOR THOSE DAYS. A REFERENCE SITE IS THE DOCUMENTATION FROM THE CLOSEST GAUGE WITHIN PROXIMITY OF THE PROJECT FROM A RECOGNIZED SOURCE SUCH AS THE NOAA NATIONAL WEATHER SERVICE.

13.2.5. DETAILED RECORDS WILL BE RECORDED OF RAINFALL EVENTS INCLUDE DATES, AMOUNTS OF RAINFALL, AND THE APPROXIMATE DURATION (OR THE STARTING AND ENDING TIMES). THE RAINFALL RECORDS SHALL BE RECORDED ON THE TDOT RAINFALL RECORD SHEET AND SHALL BE MAINTAINED IN THE "DOCUMENTATION AND PERMITS" BINDER.

13.2.6. IF THE RAINFALL EVENT IS STILL IN PROGRESS AT THE DAILY RECORDING TIME, THE GAUGE WILL BE EMPTIED AND THE RECORD WILL INDICATE THAT THE STORM EVENT WAS STILL IN PROGRESS.

13.2.7. RAIN GAUGE INFORMATION (DETAILED RECORDS), INCLUDING THE LOCATION OF THE NEAREST OUTFALL, WILL BE RECORDED ON THE EPSC INSPECTION REPORT FORMS AT THE TIME OF MEASUREMENT.

13.3. KEEPING PLANS CURRENT (5.4.)

13.3.1. THE EPSC PLAN IS TO SERVE AS AN INITIAL GUIDE FOR SITE PERSONNEL AS THE CONSTRUCTION PROCESS DEVELOPS. IT MUST BE AMENDED, MODIFIED, AND UPDATED WHENEVER EPSC INSPECTIONS INDICATE, OR WHERE STATE OR FEDERAL REGULATORY OFFICIALS DETERMINE EPSC MEASURES ARE PROVING INEFFECTIVE IN ELIMINATING OR SIGNIFICANTLY MINIMIZING POLLUTANT SOURCES OR ARE OTHERWISE NOT ACHIEVING THE GENERAL OBJECTIVES OF CONTROLLING POLLUTANTS IN STORMWATER DISCHARGES ASSOCIATED WITH THE CONSTRUCTION ACTIVITY.

13.3.2. THE STAGES DEPICTED WITHIN THE EPSC PLANS MAY NOT COINCIDE WITH THE ACTUAL STAGES OF CONSTRUCTION ESTABLISHED BY THE CONTRACTOR DURING CONSTRUCTION, THUS MODIFICATIONS WILL BE REQUIRED TO ENSURE THE EPSC PLAN IS MAINTAINED TO DEPICT CURRENT SITE CONDITIONS. IT SHOULD BE MAINTAINED SUCH THAT IT WILL ALWAYS REFLECT THE MEASURES THAT ARE INSTALLED DURING THE VARIOUS STAGES OF CONSTRUCTION. IT IS IMPRACTICAL TO DETERMINE ALL THE INTERMEDIATE STAGES OF CONSTRUCTION THAT WILL OCCUR, THUS THESE DOCUMENTS MUST BE UPDATED THROUGHOUT THE LIFE OF THE CONSTRUCTION PROJECT.

13.3.3. THE TDOT EPSC INSPECTOR OR THEIR DULY AUTHORIZED REPRESENTATIVE WILL MODIFY AND UPDATE THE SWPPP WHEN ANY OF THE FOLLOWING CONDITIONS APPLY:

13.3.3.1. WHENEVER THERE IS A CHANGE IN THE SCOPE OF THE PROJECT THAT WOULD BE EXPECTED TO HAVE A SIGNIFICANT EFFECT ON THE DISCHARGE OF POLLUTANTS TO THE WATERS OF THE STATE AND WHICH HAS NOT OTHERWISE BEEN ADDRESSED IN THE SWPPP;

13.3.3.2. WHENEVER INSPECTIONS OR INVESTIGATIONS BY SITE OPERATORS, LOCAL, STATE, OR FEDERAL OFFICIALS INDICATE THE SWPPP IS PROVING INEFFECTIVE IN ELIMINATING OR SIGNIFICANTLY MINIMIZING POLLUTANTS FROM CONSTRUCTION ACTIVITY SOURCES, OR IS OTHERWISE NOT ACHIEVING THE GENERAL OBJECTIVES OF CONTROLLING POLLUTANTS IN STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY; WHERE LOCAL, STATE, OR FEDERAL OFFICIALS DETERMINE THAT THE SWPPP IS INEFFECTIVE IN ELIMINATING OR SIGNIFICANTLY MINIMIZING POLLUTANT SOURCES, A COPY OF ANY CORRESPONDENCE TO THAT EFFECT MUST BE RETAINED IN THE SWPPP;

13.3.3.3. WHEN ANY NEW OPERATOR AND/OR SUB-OPERATOR IS ASSIGNED OR RELIEVED OF THEIR RESPONSIBILITY TO IMPLEMENT A PORTION OF THE SWPPP;

13.3.3.4. TO PREVENT A NEGATIVE IMPACT TO LEGALLY PROTECTED STATE OR FEDERALLY LISTED OR PROPOSED THREATENED OR ENDANGERED AQUATIC FAUNA;

13.3.3.5. WHEN THERE IS A CHANGE IN CHEMICAL TREATMENT METHODS INCLUDING: USE OF DIFFERENT TREATMENT CHEMICALS, DIFFERENT DOSAGE OR APPLICATION RATES OR A DIFFERENT AREA OF APPLICATION NOT SPECIFIED ON THE EPSC PLANS.

13.3.3.6. ALL SWPPP REVISION(S) SHALL BE RECORDED WITHIN 1 WEEK BY THE PROJECT EPSC INSPECTOR.

13.3.3.7. WHEN A TMDL IS DEVELOPED FOR THE RECEIVING WATERS FOR A POLLUTANT OF CONCERN (SILTATION AND/OR HABITAT ALTERATION), CONSTRUCTION SHALL NOTIFY THE PERMITS SECTION FOR PROPER COORDINATION.

13.4. MAKING PLANS ACCESSIBLE

13.4.1. TDOT WILL RETAIN A COPY OF THIS SWPPP (INCLUDING A COPY OF THE "DOCUMENTATION AND PERMITS" BINDER AT THE CONSTRUCTION SITE (OR OTHER LOCATION ACCESSIBLE TO TDEC AND THE PUBLIC) FROM THE DATE CONSTRUCTION COMMENCES TO THE DATE OF PERMANENT STABILIZATION. TDOT WILL HAVE A COPY OF THE SWPPP AVAILABLE AT THE LOCATION WHERE WORK IS OCCURRING ON-SITE FOR THE USE OF OPERATORS AND THOSE IDENTIFIED AS HAVING RESPONSIBILITIES UNDER THE SWPPP WHENEVER THEY ARE ON THE CONSTRUCTION SITE (7.2.).

13.4.2. PRIOR TO THE INITIATION OF LAND DISTURBING ACTIVITIES AND UNTIL THE SITE HAS MET THE PERMANENT STABILIZATION CRITERIA, TDOT OR THEIR DULY AUTHORIZED REPRESENTATIVE WILL POST A NOTICE NEAR THE MAIN ENTRANCE OF THE CONSTRUCTION SITE WITH THE FOLLOWING INFORMATION (5.3.4.) (7.2.1.):

13.4.2.1. A COPY OF THE NOTICE OF COVERAGE (NOC) WITH THE NPDES PERMIT NUMBER FOR THE PROJECT;

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13.4.2.2. THE INDIVIDUAL NAME, COMPANY NAME, E-MAIL ADDRESS (IF APPLICABLE) AND TELEPHONE NUMBER OF THE LOCAL PROJECT SITE OWNER AND OPERATOR CONTACT;

13.4.2.3. A BRIEF DESCRIPTION OF THE PROJECT; AND

13.4.2.4. THE LOCATION OF THE SWPPP.

13.4.3. ALL INFORMATION DESCRIBED IN SECTION 13.4.2 MUST BE MAINTAINED IN LEGIBLE CONDITION. IF POSTING THIS INFORMATION NEAR A MAIN ENTRANCE IS INFEASIBLE DUE TO SAFETY CONCERNS, THE NOTICE SHALL BE POSTED IN A LOCAL BUILDING. THE NOTICE MUST BE PLACED IN A PUBLICLY ACCESSIBLE LOCATION WHERE CONSTRUCTION IS ACTIVELY UNDERWAY AND MOVED AS NECESSARY.

13.5. NOTICE OF TERMINATION (9.0.)

13.5.1. WHEN ALL STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITIES THAT ARE AUTHORIZED BY THE PERMIT ARE ELIMINATED BY PERMANENT STABILIZATION, THE TDOT REGIONAL ENGINEER WILL SUBMIT A NOTICE OF TERMINATION (NOT) THAT IS SIGNED IN ACCORDANCE WITH THE PERMIT TO THE TDEC CENTRAL OFFICE IN NASHVILLE, TN.

13.5.2. FOR THE PURPOSES OF THE CERTIFICATION REQUIRED BY THE NOT, THE ELIMINATION OF STORMWATER DISCHARGES ASSOCIATED WITH THE CONSTRUCTION ACTIVITY MEANS THE

13.5.2.1. ALL EARTH-DISTURBING ACTIVITIES ON THE SITE ARE COMPLETED AND ALL DISTURBED SOILS AT THE PORTION OF THE CONSTRUCTION SITE WHERE THE OPERATOR HAD CONTROL HAVE BEEN PERMANENTLY STABILIZED; AND

13.5.2.2. ALL CONSTRUCTION MATERIALS, WASTE AND WASTE HANDLING DEVICES, AND ALL EQUIPMENT, AND VEHICLES THAT WERE USED DURING CONSTRUCTION HAVE BEEN REMOVED AND PROPERLY DISPOSED; AND

13.5.2.3. ALL STORMWATER CONTROLS THAT WERE INSTALLED AND MAINTAINED DURING CONSTRUCTION, EXCEPT THOSE THAT ARE INTENDED FOR LONG-TERM USE FOLLOWING TERMINATION OF PERMIT COVERAGE, HAVE BEEN REMOVED; AND

13.5.2.4. ALL POTENTIAL POLLUTANTS AND POLLUTANT GENERATING ACTIVITIES ASSOCIATED WITH CONSTRUCTION HAVE BEEN REMOVED; AND

13.5.2.5. THE PERMITTEE HAS IDENTIFIED WHO IS RESPONSIBLE FOR ONGOING MAINTENANCE OF ANY STORMWATER CONTROLS LEFT ON THE SITE FOR LONG-TERM USE FOLLOWING TERMINATION OF PERMIT COVERAGE; AND

13.5.2.6. TEMPORARY EPSC MEASURES HAVE BEEN OR WILL BE REMOVED AT AN APPROPRIATE TIME TO ENSURE PERMANENT STABILIZATION IS MAINTAINED; AND

13.5.2.7. ALL STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITIES FROM THE IDENTIFIED SITE THAT ARE AUTHORIZED BY A NPDES GENERAL PERMIT HAVE OTHERWISE BEEN ELIMINATED FROM THE PORTION OF THE CONSTRUCTION SITE WHERE THE OPERATOR HAD CONTROL.

13.6. RETENTION OF RECORDS (7.1.)

TDOT WILL RETAIN COPIES OF THE SWPPP, ALL REPORTS REQUIRED BY THE PERMIT, AND RECORDS OF ALL DATA USED TO COMPLETE THE NOTICE OF INTENT FOR THE PROJECT FOR A PERIOD OF AT LEAST THREE (3) YEARS FROM THE DATE THE NOT WAS FILED.

14. SITE WIDE/PRIMARY PERMITTEE CERTIFICATION (8.7.5.)

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED BY ME, OR UNDER MY DIRECTION OR SUPERVISION. THE SUBMITTED INFORMATION IS TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. AS SPECIFIED IN TENNESSEE CODE ANNOTATED SECTION 39-16-702(a)(4), THIS DECLARATION IS MADE UNDER PENALTY OF PERJURY.

AUTHORIZED TDOT PERSONNEL SIGNATURE (5.3.3.)

Robbie Stephens

PRINTED NAME

Statewide Transportation Engineer

TITLE

8/1/2025

DATE

15. SECONDARY PERMITTEE (OPERATOR) CERTIFICATION (8.7.6.)

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE REVIEWED THIS DOCUMENT, ANY ATTACHMENTS, AND THE SWPPP REFERENCED ABOVE. BASED ON MY INQUIRY OF THE CONSTRUCTION SITE OWNER/DEVELOPER IDENTIFIED ABOVE AND/OR MY INQUIRY OF THE PERSON DIRECTLY RESPONSIBLE FOR ASSEMBLING THIS NOI AND SWPPP, I BELIEVE THE INFORMATION SUBMITTED IS ACCURATE. I AM AWARE THAT THIS NOI, IF APPROVED, MAKES THE ABOVE-DESCRIBED CONSTRUCTION ACTIVITY SUBJECT TO NPDES PERMIT NUMBER TNR100000, AND THAT CERTAIN OF MY ACTIVITIES ONSITE ARE THEREBY REGULATED. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS, AND FOR FAILURE TO COMPLY WITH THESE PERMIT REQUIREMENTS. AS SPECIFIED IN TENNESSEE CODE ANNOTATED SECTION 39-16-702(a)(4), THIS DECLARATION IS MADE UNDER PENALTY OF PERJURY.

AUTHORIZED CONTRACTOR PERSONNEL SIGNATURE (5.3.3.)

PRINTED NAME

TITLE

DATE

16. ENVIRONMENTAL PERMITS (1.5.2.)

LIST ALL ENVIRONMENTAL PERMITS AND EXPIRATION DATES FOR PROJECT **(TO BE COMPLETED AT THE ENVIRONMENTAL PRECONSTRUCTION MEETING BY TDOT CONSTRUCTION OR THEIR DULY AUTHORIZED REPRESENTATIVE)**:

ENVIRONMENTAL PERMITS			
PERMIT	**YES OR NO**	**PERMIT OR TRACKING NO.**	**EXPIRATION DATE***
TDEC ARAP	No	N/A	N/A
CORPS OF ENGINEERS (USACE)	No	N/A	N/A
TVA 26A	No	N/A	N/A
TDEC CGP	Yes	Pending	TBD
OTHER:	N/A	N/A	N/A

*THE TDOT ENVIRONMENTAL DIVISION MUST BE NOTIFIED SIX MONTHS PRIOR TO PERMIT EXPIRATION DATE.

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17. OUTFALL TABLE (5.5.1.c, 6.4.1.e, 6.4.1.f)

OUTFALL LABEL	SUB OUT-FALL	STATION CL, LT OR RT	SLOPE WITHIN ROW (%)	STAGE 1 DRAINAGE AREA (AC)	STAGE 2 DRAINAGE AREA (AC)	STAGE 3 DRAINAGE AREA (AC)	SEDIMENT BASIN OR EQUIVALENT MEASURE(S) (YES, NO OR N/A)	SEDIMENT TRAP OR EQUIVALENT MEASURE(S) (YES, NO OR N/A)	RECEIVING RESOURCE (TDOT EBR LABEL) OR OTHER	COMMENTS

N/A – ITS Project

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Index Of Sheets	
SHEET NAME	SHEET NO.
UTILITIES INDEX, UTILITIES OWNERS, AND UTILITIES SHEETS;	U1-1

PIN: 124759.00

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING

SHELBY / FAYETTE COUNTIES

S.R. - 385

ITS EXPANSION FROM NEAR MM 7 TO NEAR I-269 (MM 15) (IA)

STATE HIGHWAY NO. 385 F.A.H.S. NO. N/A

CONTRACT TYPE	UTILITY	UTILITY OWNERS & CONTACTS:	CONTRACT TYPE	UTILITY	UTILITY OWNERS & CONTACTS:
NO CONFLICT	WATER GAS ELECTRIC	MLG&W DARRYL MCLEMORE 220 SOUTH MAIN ST. MEMPHIS, TN. 38103 901-528-4186 / c: 901-502-6207 dmclemore@mlgw.org			
NO CONFLICT	TELEPHONE FIBER OPTIC	AT&T DANIEL POTTS 315 E. COLLEGE STREET JACKSON, TN. 38301 901-488-2359 dp7607@att.com			

SEALED BY

STATE OF TENNESSEE
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UTILITY INDEX
AND
UTILITY OWNERS

SPECIAL NOTES

SOME UTILITIES CAN BE LOCATED BY CALLING THE TENNESSEE ONE SYSTEM, INC. AT 1-800-351-1111.

12-MAY-2025 10:13
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