TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

Index Of Sheets

SEE SHEET NO. 1A FOR INDEX

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING

TENN.	YEAR	SHEET NO.
	2014	1
FED. AID PROJ. NO.	NHE-29(72)	
STATE PROJ. NO.	33018- -14	

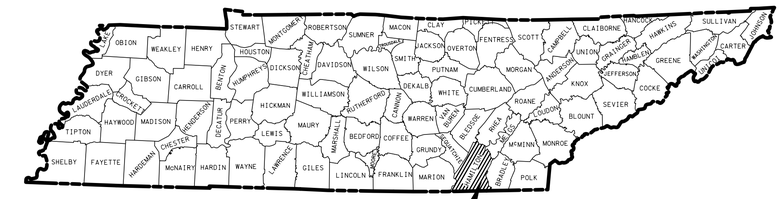
HAMILTON COUNTY

S.R. 29 (U.S. 27)
OLGIATI BRIDGE OVER TENNESSEE RIVER
BRIDGE WIDENING

BRIDGE WIDENING, LIGHTING AND STRIPING

CONSTRUCTION

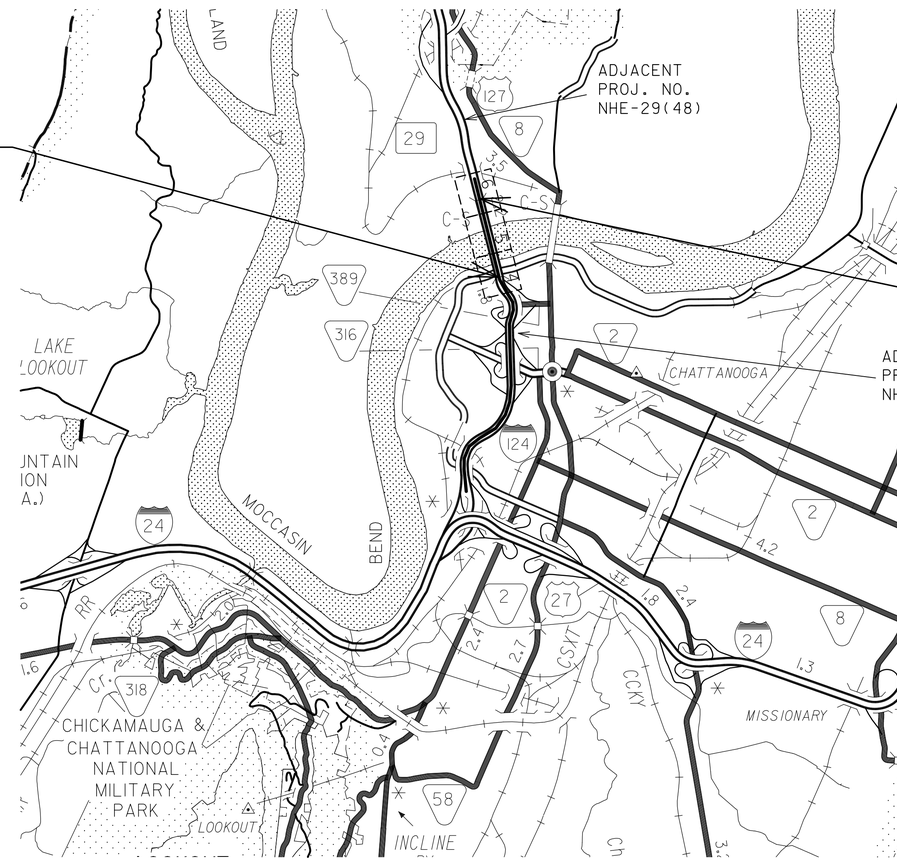
STATE HIGHWAY NO. 29 F.A.H.S. NO. 27



33018- -14
BEGIN PROJECT NO. NHE-29(72) CONST.
STA. 181+69.77

NO EXCLUSIONS
NO EQUATIONS

33018- -14
END PROJECT NO. NHE-29(72) CONST.
STA. 216+86.14



SCALE: 1"= 2640 FT.

0 2640 1 MI.

P.S. & E. REVIEW

SEALED BY

APPROVED: Paul D. Degges
PAUL D. DEGGES, CHIEF ENGINEER

DATE:

APPROVED:
JOHN SCHROER, 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 FEBURARY 4, 2014 AND ADDITIONAL SPECIFICATIONS AND SPECIAL PROVISIONS CONTAINED IN THE PLANS AND IN THE PROPOSAL CONTRACT.

TDOT C.E. MANAGER 1 ROBERT RODGERS, PE
DESIGNED BY ALFRED BENESCH AND COMPANY
DESIGNER DAVID DAVIS, PE CHECKED BY SAMMIE MCCOY, PE
P.E. NO. 33018-0208-14
PIN NO. 112584.00

ROADWAY LENGTH	0.146 MILES
BRIDGE LENGTH	0.519 MILES
BOX BRIDGE LENGTH	0.000 MILES
PROJECT LENGTH	0.665 MILES

TRAFFIC DATA	
ADT (2014)	69440
ADT (2034)	87920
DHV (2034)	10166
D	60 - 40
T (ADT)	7 %
T (DHV)	5 %
V	55 MPH

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED:

DIVISION ADMINISTRATOR DATE

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NHE-29(72)	1A

INDEX

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TITLE SHEET	1
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STANDARD ROADWAY DRAWINGS

DWG. NO	REV.	DESCRIPTION
ROADWAY DESIGN STANDARDS		
RD-A-1	12-18-99	STANDARD ABBREVIATIONS
RD-L-1	10-26-94	STANDARD LEGEND
RD-L-2	09-05-01	STANDARD LEGEND FOR UTILITY INSTALLATIONS
RD-L-3	04-15-04	STANDARD LEGEND FOR SIGNALIZATION AND LIGHTING
RD-L-4	04-15-04	STANDARD LEGEND FOR SIGNALIZATION AND LIGHTING
RD-L-5	05-01-08	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
RD-L-6	03-30-10	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
RD-L-7		STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
RD01-TS-5B	10-15-02	DESIGN STANDARDS FREEWAYS WITH MEDIAN BARRIER
ROADWAY AND PAVEMENT APPURTENANCES		
RP-CS-1	09-29-10	CONCRETE SHOULDER RUMBLE STRIP DETAIL (FOR 4-LANE DIVIDED HIGHWAY)
RP-CS-2	09-29-10	CONCRETE SHOULDER RUMBLE STRIP DETAIL (FOR 6-LANE OR WIDER DIVIDED HIGHWAY)
RP-MC-2	02-28-02	STANDARD 6" SLOPING (MOUNTABLE) CONCRETE CURBS AND CONCRETE CURBS AND GUTTERS
RP-NMC-10	07-29-03	STANDARD VERTICAL (NONMOUNTABLE) CONCRETE CURBS AND CONCRETE CURBS AND GUTTERS
RP-NMC-11	02-28-02	STANDARD VERTICAL (NONMOUNTABLE) CONCRETE CURBS AND CONCRETE CURBS AND GUTTERS
RP-S-7	06-04-13	DETAILS FOR STANDARD CONCRETE SIDEWALKS
SAFETY APPURTENANCES AND FENCE		
S-F-1		HIGH VISIBILITY FENCE
TRAFFIC CONTROL APPURTENANCES		
T-FAB-1	05-27-97	FLASHING YELLOW ARROW BOARD
T-L-1	02-15-07	STANDARD LIGHTING FOUNDATION DETAILS
T-L-1SA	07-29-04	STANDARD LIGHTING DETAILS FOR SINGLE ARM SUPPORTS
T-L-1TM		STANDARD LIGHTING DETAILS TENON MOUNTED OFFSET LIGHTING SUPPORTS
T-L-2	09-11-03	FOUNDATION DETAIL FOR LUMINAIRE MOUNTED ON A CONCRETE MEDIAN BARRIER
T-L-3	04-15-96	STANDARD LIGHTING DETAILS PULL BOXES
T-L-4	05-25-11	STANDARD LIGHTING DETAILS CONDUIT, CABLE INSTALLATION
T-M-1	11-01-11	DETAILS OF PAVEMENT MARKINGS FOR CONVENTIONAL ROADS AND MARKING ABBREVIATIONS
T-M-5	04-23-13	MARKING DETAILS FOR EXPRESSWAYS & FREEWAYS
T-M-6	06-22-12	MARKING DETAIL FOR EXPRESSWAY & FREEWAY INTERCHANGES
T-M-7	01-12-12	GORE MARKING DETAILS FOR EXPRESSWAY & FREEWAY INTERCHANGES
T-M-8	01-12-12	MARKING DETAILS FOR EXPRESSWAYS & FREEWAYS
T-PBR-1	06-30-09	INTERCONNECTED PORTABLE BARRIER RAIL
T-PBR-2	11-01-11	DETAIL FOR VERTICAL PANELS AND FLEXIBLE DELINEATORS
T-S-6	02-12-91	STANDARD MOUNTING DETAILS - BOLTED EXTRUDED PANELS
T-S-7	02-12-91	HIGHWAY SHIELDS USED ON INTERSTATE AND U.S. NUMBERED ROUTES
T-S-8	07-15-91	HIGHWAY SHIELDS USED ON STATE NUMBERED ROUTES AND ARROWS
T-S-10	04-04-12	STANDARD MOUNTING DETAILS FLAT SHEET SIGNS ALUMINUM-STEEL DESIGN
T-S-15	12-07-90	STANDARD CONDUIT & GROUND DETAILS FOR OVERHEAD & CANTILEVER SIGN STRUCTURES
T-S-18	05-27-01	END OF ROADWAY AND DEAD END SIGNS, METAL BARRICADES (TYPE III) & WORK ZONE SPEED SIGNS
T-WZ-10	04-02-12	ADVANCE ROAD WORK SIGNING ON HIGHWAYS AND FREEWAYS
T-WZ-16	03-13-09	LANE SHIFT ON DIVIDED HIGHWAYS AND FREEWAYS
T-WZ-55		SIDEWALK TRAFFIC CONTROL
EROSION PREVENTION AND SEDIMENT CONTROL		
EC-STR-3C	08-01-12	SILT FENCE WITH WIRE BACKING
EC-STR-3E	04-01-08	SILT FENCE FABRIC JOINING DETAILS
EC-STR-8	08-01-12	FILTER SOCK
EC-STR-25	08-01-12	TEMPORARY CULVERT CROSSING, CONSTRUCTION EXIT, CONSTRUCTION FORD
EC-STR-37	08-01-12	SEDIMENT TUBE
EC-STR-39A	08-01-12	CURB INLET PROTECTION TYPE 3 & 4

P.S. & E. REVIEW

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DEPARTMENT OF TRANSPORTATION

INDEX AND STANDARD DRAWINGS

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-124-3(81)	2A

ESTIMATED ROADWAY QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY
	105-01	CONSTRUCTION STAKES, LINES AND GRADES	LS	1
	201-01	CLEARING AND GRUBBING	LS	1
(1)	202-01	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LS	1
	203-02.01	BORROW EXCAVATION (GRADED SOLID ROCK)	TON	2054
	203-06	WATER	M.G.	1
(2)	203-07	FURNISHING & SPREADING TOPSOIL	C.Y.	
(4) (5)	209-03.21	FILTER SOCK (12 INCH)	L.F.	210
(4) (5)	209-05	SEDIMENT REMOVAL	C.Y.	20
(4) (5)	209-08.02	TEMPORARY SILT FENCE (WITH BACKING)	L.F.	3255
(4) (5)	209-09.42	CURB INLET PROTECTION (TYPE 3)	EACH	2
(3)	303-01	MINERAL AGGREGATE, TYPE A BASE, GRADING D	TON	509
(3)	303-10.01	MINERAL AGGREGATE (SIZE 57)	TON	1
(3)	402-01	BITUMINOUS MATERIAL FOR PRIME COAT (PC)	TON	
(3)	402-02	AGGREGATE FOR COVER MATERIAL (PC)	TON	
(3)	411-01.10	ACS MIX(PG64-22) GRADING D	TON	
	501-03.10	CONCRETE SHOULDER RUMBLE STRIPS	L.F.	
(3)	701-01.01	CONCRETE SIDEWALK (4 ")	S.F.	
(3)	702-01	CONCRETE CURB	C.Y.	
(3)	702-03	CONCRETE COMBINED CURB & GUTTER	C.Y.	
(8)	707-01.11	CHAIN LINK FENCE (6 FOOT)	L.F.	812
(8)	707-01.12	END & CORNER POST ASSEMBLY(CHAIN-LINK FENCE 6')	EACH	8
	705-02.02	SINGLE GUARDRAIL (TYPE 2)	L.F.	108
	705-04.07	TAN ENERGY ABSORBING TERM (NCHRP 350, TL3)	EACH	4
(6)	705-08.11	PORTABLE IMPACT ATTENUATOR NCHRP350 TL-3	EACH	3
	707-08.11	HIGH-VISIBILITY CONSTRUCTION FENCE	L.F.	1115
(4) (5)	709-05.05	MACHINED RIP-RAP (CLASS A-3)	TON	
	712-01	TRAFFIC CONTROL	LS	1
	712-02.02	INTERCONNECTED PORTABLE BARRIER RAIL	L.F.	6182
	712-04.01	FLEXIBLE DRUMS (CHANNELIZING)	EACH	20
	712-05.01	WARNING LIGHTS (TYPE A)	EACH	20
	712-06	SIGNS (CONSTRUCTION)	S.F.	443
	712-07.03	TEMPORARY BARRICADES (TYPE III)	L.F.	40
	713-15	REMOVAL OF SIGNS, POSTS AND FOOTINGS	LS	1
	713-16.01	CHANGEABLE MESSAGE SIGN UNIT	EACH	2
	713-16.41	RELOCATE SIGN	LS	1
	713-20.30	SIGN ADJUSTMENTS	EACH	5

ESTIMATED ROADWAY QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY
(9)	714-03	JACKED OR BORED CONDUIT	L.F.	85
	714-03.01	DIRECT BURIAL CONDUIT (2" PVC, SCHEDULE 40)	L.F.	795
(10)	714-04.02	CONDUIT (STRUCTURES - 2" RGS)	L.F.	35
	714-05.04	PULL BOXES (TYPE C)	EACH	4
(10)	714-05.05	PULL BOXES (6"X6")	EACH	2
	714-06.06	CABLE (1/C # 4 AWG)	L.F.	16880
	714-06.08	CABLE (# 4 COPPER SOFT DRAWN BARE) (GROUND))	L.F.	580
(11)	714-06.09	CABLE (# 4 SOILD COPPER SOFT DRAWN) (GROUND))	L.F.	5150
	714-08.09	LIGHT STANDARDS (35'MH)(BRIDGE MOUNTED)	EACH	23
	714-08.32	REMOVAL OF LIGHT STANDARD & FOUNDATION	EACH	34
(12)	714-09.04	LUMINAIRES (400 WATT)	EACH	23
(13)	714-12.01	CONTROL CENTER (NO. 1)	LS	1
	714-12.09	CONTROL CENTER (REMOVE)	LS	1
(14)	714-25	ELECTRICAL CONNECTION	EACH	1
	716-01.22	SNOWPLOWABLE PAVMENT MARKERS (MONO-DIR)(1 COLOR)	EACH	
(7)	716-02.04	PLASTIC PAVEMENT MARKING(CHANNELIZATION STRIPING)	S.Y.	
(7)	716-04.04	PLASTIC PAVEMENT MARKING (TRANSVERSE SHOULDER)	L.F.	
(7)	716-04.07	PLASTIC PAVEMENT MARKING (EXIT ONLY ARROW)	EACH	
(7)	716-04.08	PLASTIC PAVEMENT MARKING (OPTION LANE ARROW)	EACH	
	716-05.01	PAINTED PAVEMENT MARKING (4" LINE)	L.M.	0.69
	716-05.02	PAINTED PAVEMENT MARKING (8" BARRIER LINE)	L.F.	11398
	716-05.22	PAINTED PAVEMENT MARKING (LONGITUDINAL CROSS-WALK)	L.F.	
	716-12.02	ENHANCED FLATLINE THERMO PVMT MRKNG (6IN LINE)	L.M.	
	716-12.03	ENHANCED FLATLINE THERMO PVMT MRKNG (8IN BARRIER LINE)	L.F.	
	716-12.05	ENHANCED FLATLINE THERMO PVMT MRKNG (6IN DOTTED LINE)	L.F.	
	717-01	MOBILIZATION	LS	1
	740-10.03	GEOTEXTILE (TYPE III)(EROSION CONTROL)	S.Y.	
(4) (5)	740-11.02	TEMPORARY SEDIMENT TUBE 12IN (DESCRIPTION)	L.F.	1445
(2)	801-01	SEEDING (WITH MULCH)	UNIT	
(2)	801-03	WATER (SEEDING & SODDING)	M.G.	

(1) SEE SHEET NO. 2_ FOR STRUCTURES TO BE REMOVED.
(2) QUANITY MAY BE INCREASED, DECREASED OR ELIMINATED AS DIRECTED BY THE ENGINEER.
(3) FOR REPAIRS TO AREAS DAMAGED BY PADS. QUANITY MAY BE INCREASED, DECREASED OR ELIMINATED AS DIRECTED BY THE ENGINEER.
(4) SEE SUBSECTION 209.07 OF THE STANDARD SPECIFICATIONS FOR MAINTENANCE REPLACEMENT.
(5) ALL QUANTITIES ARE TO BE USED AS DIRECTED BY THE ENGINEER.
(6) THIS ITEM SHALL BE A PORTABLE ENERGY TERMINAL MEETING THE REQUIREMENTS OF NCHRP 350 TEST LEVEL 3. EXAMPLES WOULD BE QUAD-GUARD, A REACT 360 OR A TRACC. THE PAY ITEM WILL INCLUDE FURNISHING AND INSTALLING ALL COMPONENTS AS SHOWN ON THE MANUFACTURERS DRAWINGS.
(7) THE CONTRACTOR MAY ELECT TO SUBSTITUTE PREFORMED PLASTIC FOR THERMOPLASTIC. PREFORMED PLASTIC SHALL BE PAID FOR AT THE SAME UNIT PRICE BID FOR THERMOPLASTIC.
(8) TO REPLACE EXIST. C.A. FENCE AFTER CONSTRUCTION COMPLETE.
(9) SHALL BE 1-2" C (PVC), SCHEDULE 80 EQUIVALENT.
(10) SHALL BE STRAPPED TO BRIDGE. INCLUDES ALL APPURTENANCES REQUIRED FOR THE COMPLETE INSTALLATION.
(11) INCLUDED FOR GROUNDING WITHIN STRUCTURES, SHALL BE SOLID COPPER COLORED GREEN AND HAVE USE USE-2 RUGGEDIZED INSULATION.
(12) OFFSET LUMINAIRES SHALL BE OFF ROADWAY LIGHT ORL SERIES, 400W HPS, COPPER LIGHTING CATALOGUE NUMBER ORL40SW8XX-B, OR EQUIVALENT, BALLASTED FOR 240 V OPERATION AND 35 FT MOUNTING HEIGHT. BASED ON COPPER PHOTOMETRIC DATA FILE, ORL4SXX.IES; TOTAL LUMENS = 50,000.
(13) INCLUDES THE COST OF THE 100 AMP DISCONNECT.
(14) THE CONTRACTOR SHALL CONTACT THE LOCAL UTILITY TO OBTAIN THE ESTIMATE FOR ANY CHARGES BY THE UTILITY FOR PROVIDING ELECTRICAL SERVICE TO THE CONTROL CENTER(S). THESE CHARGES SHALL BE INCLUDED IN THE BID FOR THIS ITEM. ALSO, INCLUDES THE COST OF THE STEEL CONDUIT RISER ASSEMNLY AND PROPOSED POWER CABLE OVERHEAD AS REQUIRED.

P.S.& E. REVIEW

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DEPARTMENT OF TRANSPORTATION

ESTIMATED ROADWAY QUANTITIES

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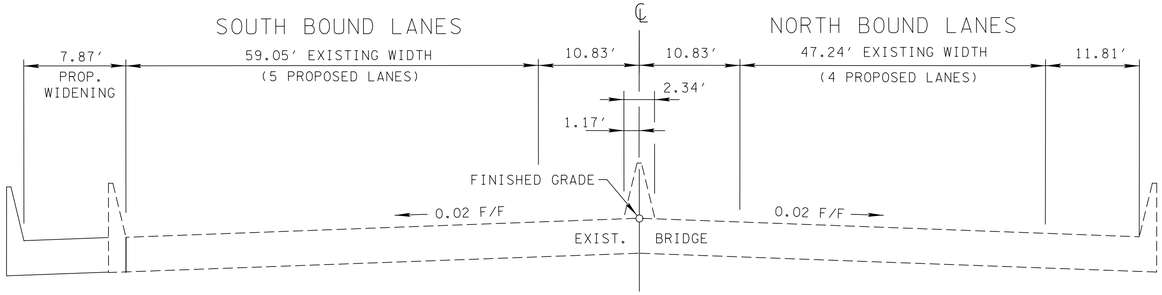
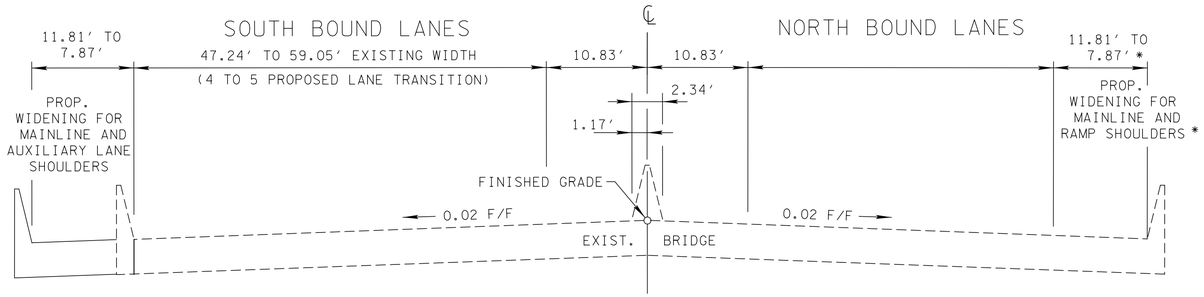
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2011	NHE-29(72)	2
CONST.	2014	NHE-29(72)	2C



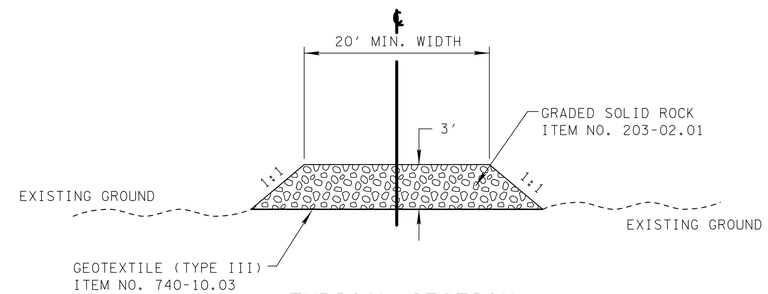
TANGENT SECTION

(BASED ON STD. DWG. RD01-TS-5B)
STA. 200+85.90 TO STA. 209+14.68



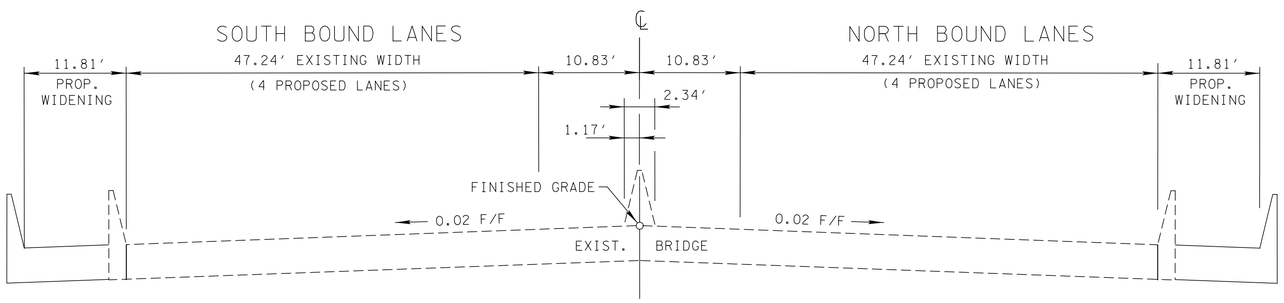
TANGENT SECTION

(BASED ON STD. DWG. RD01-TS-5B)
STA. 197+57.82 TO STA. 200+85.90
* NO WIDENING REQUIRED BETWEEN STA. 199+34.48 AND STA. 200+85.90



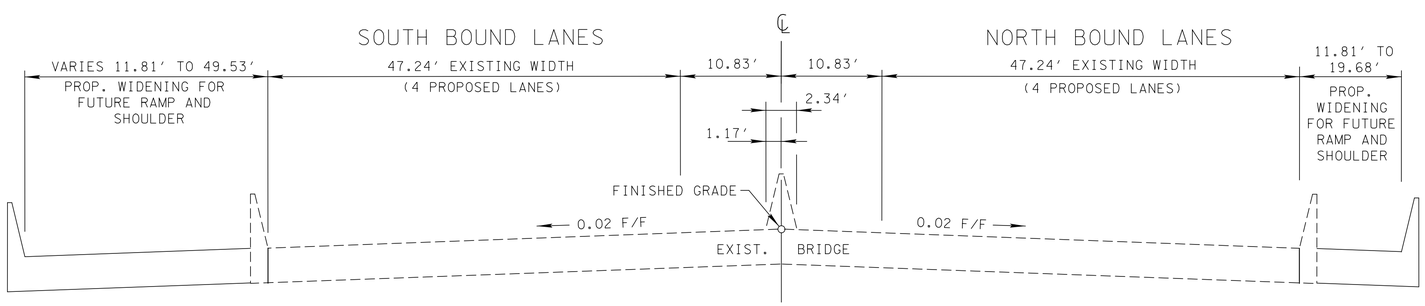
TYPICAL SECTION

CRANE PAD
(LOCATION TO BE DETERMINED BY ENGINEER IN FIELD)



TANGENT SECTION

STA. 186+51.06 TO STA. 197+57.82
(BASED ON STD. DWG. RD01-TS-5B)



TANGENT SECTION

(BASED ON STD. DWG. RD01-TS-5B)
STA. 181+69.77 TO STA. 186+51.06

SPECIAL NOTE: IF THERE IS A CONFLICT BETWEEN THIS SHEET AND THE STRUCTURAL DRAWINGS, THE STRUCTURAL DRAWINGS SHALL GOVERN UNLESS THE ENGINEER INSTRUCTS OTHERWISE.

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TYPICAL SECTIONS

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NHE-29(72)	2D

GENERAL NOTES

GRADING

(1) ANY AREA THAT IS DISTURBED OUTSIDE LIMITS OF CONSTRUCTION DURING THE LIFE 0F 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.

SEEDING AND SODDING

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

UTILITIES (SEE SHEET NO. 3A)

MISCELLANEOUS

(4) ALL DETOUR, ACCESS, SERVICE AND FRONTAGE ROADS SHALL BE CONSTRUCTED WITH A MINIMUM OF ONE (1) COURSE OF BASE MATERIAL BEFORE TRAFFIC IS INTERRUPTED ON EXISTING ROADS.

(5) 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

ROAD CLOSURE

(6) NO LESS THAN SEVEN (7) DAYS PRIOR TO THE CLOSURE OF THE ROAD, THE CONTRACTOR SHALL NOTIFY THE FOLLOWING INDIVIDUALS OR AGENCIES COMPLETELY DESCRIBING THE AFFECTED ROADS AND THE APPROXIMATE DURATION OF THE CONSTRUCTION: THESE PARTIES INCLUDE, BUT ARE NOT LIMITED TO: (1) LOCAL LAW ENFORCEMENT OFFICE, (2) LOCAL FIRE DEPARTMENT, (3) AMBULANCE SERVICE, (4) LOCAL SCHOOL SUPERINTENDENT, (5) UNITED STATES POSTAL SERVICE, AND (6) LOCAL ROAD SUPERINTENDENT.

RIGHT - OF – WAY (SEE SHEET NO. 3A)

PAVEMENT MARKINGS

TEMPORARY PAVEMENT MARKING ON INTERMEDIATE LAYERS

(7) TEMPORARY PAVEMENT LINE MARKINGS ON INTERMEDIATE LAYERS OF PAVEMENT SHALL BE REFLECTIVE TAPE OR REFLECTORIZED PAINT INSTALLED TO PERMANENT STANDARDS AT THE END OF EACH DAYS WORK. SHORT, UNMARKED SECTIONS SHALL NOT BE ALLOWED. THESE MARKINGS WILL BE MEASURED AND PAID FOR UNDER ITEM NO. 716-05.01, PAINTED PAVEMENT MARKING (4" LINE), L.M.

(8) TEMPORARY PAVEMENT LINE MARKINGS ON INTERMEDIATE LAYERS OF PAVEMENT SHALL BE REFLECTIVE TAPE OR REFLECTORIZED PAINT INSTALLED TO PERMANENT STANDARDS AT THE END OF EACH DAYS WORK. SHORT, UNMARKED SECTIONS SHALL NOT BE ALLOWED. THESE MARKINGS WILL BE MEASURED AND PAID FOR UNDER ITEM NO. 716-05.20, PAINTED PAVEMENT MARKING (6" LINE), L.M.

(9) TEMPORARY PAVEMENT LINE MARKINGS ON INTERMEDIATE LAYERS OF PAVEMENT SHALL BE REFLECTIVE TAPE OR REFLECTORIZED PAINT INSTALLED TO PERMANENT STANDARDS AT THE END OF EACH DAYS WORK. SHORT, UNMARKED SECTIONS SHALL NOT BE ALLOWED. THESE MARKINGS WILL BE MEASURED AND PAID FOR UNDER ITEM NO. 716-05.02, PAINTED PAVEMENT MARKING (8" BARRIER LINE), L.F.

(10) WIDE (8 INCH) TEMPORARY PAVEMENT MARKING LINE WILL BE MEASURED AND PAID FOR UNDER ITEM NO. 716-05.02 PAINTED PAVEMENT MARKING (8" BARRIER LINE), LIN. FT.

FINAL PAVEMENT MARKING IF 6" ENHANCED FLATLINE THERMOPLASTIC IS USED

(11) PERMANENT PAVEMENT LINE MARKINGS SHALL BE 6" ENHANCED FLATLINE THERMOPLASTIC INSTALLED TO PERMANENT STANDARDS AT THE END OF EACH DAY'S WORK. SHORT UNMARKED SECTIONS SHALL NOT BE ALLOWED. PAVEMENT MARKINGS WILL BE MEASURED AND PAID FOR UNDER ITEM NO. 716-12.02, ENHANCED FLATLINE THERMO PVMT MRKNG (6IN LINE), L.M. THE CONTRACTOR SHALL HAVE THE OPTION OF USING REFLECTORIZED PAINT INSTALLED TO PERMANENT STANDARDS AT THE END OF EACH DAY'S WORK AND THEN INSTALLING THE PERMANENT MARKINGS AFTER THE PAVING OPERATION IS COMPLETED. THE TEMPORARY MARKINGS FOR THE FINAL SURFACE WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT THE COSTS ARE TO BE INCLUDED IN THE PRICE BID FOR THE PERMANENT MARKINGS.

FINAL PAVEMENT MARKING IF 8" ENHANCED FLATLINE THERMOPLASTIC IS USED

(12) PERMANENT PAVEMENT LINE MARKINGS SHALL BE 8" ENHANCED FLATLINE THERMOPLASTIC INSTALLED TO PERMANENT STANDARDS AT THE END OF EACH DAY'S WORK. SHORT UNMARKED SECTIONS SHALL NOT BE ALLOWED. PAVEMENT MARKINGS WILL BE MEASURED AND PAID FOR UNDER ITEM NO. 716-12.03, ENHANCED FLATLINE THERMO PVMT MRKNG (8IN BARRIER LINE), L.F. THE CONTRACTOR SHALL HAVE THE OPTION OF USING REFLECTORIZED PAINT INSTALLED TO PERMANENT STANDARDS AT THE END OF EACH DAY'S WORK AND THEN INSTALLING THE PERMANENT MARKINGS AFTER THE PAVING OPERATION IS COMPLETED. THE TEMPORARY MARKINGS FOR THE FINAL SURFACE WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT THE COSTS ARE TO BE INCLUDED IN THE PRICE BID FOR THE PERMANENT MARKINGS.

FINAL PAVEMENT MARKING IF REFLECTORIZED PAINT IS USED

(13) PERMANENT PAVEMENT LINE MARKINGS SHALL BE REFLECTORIZED PAINT INSTALLED TO PERMANENT STANDARDS AT THE END OF EACH DAY'S WORK. SHORT, UNMARKED SECTIONS SHALL NOT BE ALLOWED. THESE MARKINGS WILL BE MEASURED AND PAID FOR UNDER ITEM NO. 716-05.01 PAINTED PAVEMENT MARKING (4IN LINE), L.M.

DETOURS, LANE SHIFTS AND MEDIAN CROSS-OVERS

(14) THE PAVEMENT MARKING ON THE LANE SHIFT FOR CENTERLINES, EDGELINE AND LANE LANES WILL BE INSTALLED AND MAINTAINED TO THE SAME STANDARDS AS FOR PERMANENT MARKINGS ON THE MAIN ROADWAY. THESE MARKINGS SHALL BE IN PLACE PRIOR TO ALLOWING TRAFFIC ONTO THE PAVEMENT. THESE PAVEMENT MARKINGS WILL BE MEASURED AND PAID FOR UNDER ITEM NO. 716-05.01 PAINTED PAVEMENT MARKING (4 IN. LINE), LIN. MI. ITEM NO. 716-05.20 PAINTED PAVEMENT MARKING (6 IN. LINE), LIN. MI. ITEM NO. 716-05.02 PAINTED PAVEMENT MARKING (8 IN.BARRIER LINE), LIN. MI.

(15) BEFORE OPENING THE DETOUR AND LANE SHIFT TO TRAFFIC, THE TRANSITIONAL MARKINGS ON THE EXISTING ROADWAY MUST BE IN PLACE. ALL EXISTING MARKINGS IN THE AREA OF THESE TRANSITIONAL MARKINGS SHALL BE OBLITERATED AND ALL EXISTING RAISED PAVEMENT MARKERS SHALL BE REMOVED TO ELIMINATE CONFLICTING MARKINGS. REMOVAL OF THE EXISTING CONFLICTING MARKINGS AND RAISED PAVEMENT MARKERS WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT THE COST WILL BE INCLUDED IN ITEM NO. 712-01 TRAFFIC CONTROL, LUMP SUM.

PAVEMENT

PAVING

(16) THE CONTRACTOR SHALL BE REQUIRED TO PAVE IN THE DIRECTION OF TRAFFIC.

GRADED SOLID ROCK

(17) THE ROCK FILL (GRADED SOLID ROCK) MATERIAL SHALL CONSIST OF SOUND, NON-DEGRADABLE LIMESTONE OR SANDSTONE WITH A MAXIMUM SIZE OF 3'-0". AT LEAST 50% (BY WEIGHT) OF THE ROCK SHALL BE UNIFORMLY DISTRIBUTED BETWEEN 1'-0" AND 3'-0" IN DIAMETER, AND NO GREATER THAN 10% (BY WEIGHT) SHALL BE LESS THAN 2" IN DIAMETER. THE MATERIAL SHALL BE ROUGHLY EQUIDIMENSIONAL; THIN, SLABBY MATERIALS WILL NOT BE ACCEPTED. THE CONTRACTOR SHALL BE REQUIRED TO PROCESS THE MATERIAL WITH AN ACCEPTABLE MECHANICAL MEANS (A SCREENING PROCESS CAPABLE OF PRODUCING THE REQUIRED GRADATION). THE ROCK SHALL BE APPROVED BY A REPRESENTATIVE OF THE DIVISION OF MATERIALS AND TESTS BEFORE USE.

(18) THIS GRADED SOLID ROCK MATERIAL SHALL BE PLACED IN LAYERS NOT EXCEEDING FIVE FEET IN DEPTH.

SIGNING

(19) THE LETTERS, DIGITS, ARROWS, BORDERS, AND ALPHABET ACCESSORIES ON ALL FLAT SHEET SIGNS SHALL BE APPLIED BY SILK SCREENING PROCESS, EXCEPT THAT CUTOUT DIRECT APPLIED COPY SHALL BE USED ON ALL FLAT SHEET SIGNS WITH A GREEN BACKGROUND. THE LETTERS, DIGITS, ARROWS, BORDERS, AND ALPHABET ACCESSORIES ON ALL EXTRUDED PANEL SIGNS SHALL BE DEMOUNTABLE AND ATTACHED TO THE SIGN FACE, AS OUTLINED IN THE STANDARD SPECIFICATIONS. ALL SHIELDS ON GUIDE SIGNS SHALL BE DEMOUNTABLE AND ATTACHED TO THE SIGN FACE AS OUTLINED IN THE STANDARD SPECIFICATIONS.

(20) THE LENGTHS OF ALL SIGN SUPPORTS SHOWN ON THE SIGN SCHEDULE ARE APPROXIMATE AND ARE FOR ESTIMATING PURPOSES ONLY. THE LENGTHS WERE COMPUTED FROM THE CROSS-SECTIONS CONTAINED IN THE CONSTRUCTION PLANS. IN THE EVENT THE SUPPORT LENGTHS ARE 2 FEET SHORTER OR LONGER THAN SHOWN ON THE PLANS, THE ENGINEER SHALL VERIFY THE SUPPORT TYPE WITH THE DESIGN DIVISION, SIGNING AND MARKING SECTION, TELEPHONE NO. (615)-741-0982. THE CONTRACTOR SHALL VERIFY ALL SUPPORT LENGTHS AT THE SITE PRIOR TO ORDERING MATERIAL.

(21) THE TOP OF THE SIGN FOOTINGS SHALL BE PLACED LEVEL WITH THE GROUND LINE.

(22) AFTER THE SIGN LOCATIONS HAVE BEEN STAKED, BUT PRIOR TO ORDERING ANY MATERIAL FOR THE SUPPORTS, THERE SHALL BE A FIELD INSPECTION AND APPROVAL BY THE REGIONAL CONSTRUCTION OFFICE.

(23) THE CONTRACTOR SHALL BE REQUIRED TO FURNISH LAYOUT DRAWINGS (3 SETS) OF ALL EXTRUDED PANEL SIGNS WITH SPACING OF ALL LETTERS, NUMERALS, SHIELDS, AND ARROWS. THE LAYOUT DRAWINGS SHALL BE SENT TO THE DESIGN DIVISION, SIGNING AND MARKING SECTION, SUITE 1300, J. K. POLK BUILDING, NASHVILLE, TN 37243-1402.

(24) ALL SIGNS MARKED "TO BE REMOVED" ARE TO BE REMOVED BY THE CONTRACTOR AND PAID FOR UNDER ITEM 713-15 AND BECOME THE PROPERTY OF THE CONTRACTOR.

(25) THE EXISTING FOOTINGS ARE TO BE REMOVED 6 INCHES BELOW GROUND LINE.

TRAFFIC CONTROL DIRECTIONAL SIGNING

(26) ON ALL ACCESS CONTROLLED AND INTERSTATE RECONSTRUCTION AND NEW CONSTRUCTION PROJECTS, THE CONTRACTOR SHALL UTILIZE ALL EXISTING DIRECTIONAL SIGNING FOR AS LONG AS POSSIBLE. THESE EXISTING SIGNS CAN BE MOVED USING TEMPORARY SUPPORTS AS NEEDED. AS SOON AS THESE EXISTING DIRECTIONAL SIGNS COME DOWN PERMANENTLY, THE CONTRACTOR SHALL HAVE UP AT LEAST ONE NEW TEMPORARY "ADVANCE GUIDE SIGN" AND ONE NEW TEMPORARY "EXIT DIRECTIONAL SIGN" AT ALL EXIT RAMPS. THESE SIGNS ARE TO BE MAINTAINED WITHIN CLEAR VIEW OF THE PUBLIC ON THE RIGHT SIDE OF THE HIGHWAY AND SHALL BE REPLACED IF DAMAGED, DURING ALL PHASES OF CONSTRUCTION, AS DIRECTED BY THE ENGINEER.

(27) THE SIZE OF THESE NEW TEMPORARY SIGNS WILL BE DETERMINED BY THE MESSAGE. THE MESSAGE SHALL BE THE SAME AS THE EXISTING SIGN THAT THESE NEW TEMPORARY SIGNS WILL BE REPLACING. THE LETTER SIZE SHALL BE A MINIMUM OF 8 INCH, "D" UPPER CASE LETTER. THE DIRECTIONAL ARROW WILL BE A "B" ARROW AT A 45 DEGREE ANGLE (SAME ANGLE AS THE EXISTING ARROW). THE MATERIAL SHALL BE 0.100 INCH SHEET ALUMINUM; THE COLOR SHALL BE A REFLECTIVE GREEN BACKGROUND WITH REFLECTIVE WHITE COPY.

(28) ALL WORK AND MATERIAL TO MAKE THESE NEW TEMPORARY DIRECTIONAL SIGNS ALONG WITH ADEQUATE SUPPORTS AND TO MOVE THEM AS NEEDED DURING EACH PHASE OF CONSTRUCTION WILL BE PAID FOR UNDER ITEM NO.712-01 TRAFFIC CONTROL, LS._, AS DIRECTED BY THE ENGINEER.

(29) SOME OF THESE DIRECTIONAL SIGNS WILL NEED AN INTERSTATE, U.S., OR A STATE HIGHWAY SHIELD, A CARDINAL DIRECTION, AND A DIRECTION ARROW TO ACCOMPANY THE DIRECTIONAL SIGN. THESE SIGNS SHALL BE MOUNTED BELOW THE DIRECTIONAL SIGN.

(30) ALL EXISTING "EMERGENCY REFERENCE MARKERS" AND "HOSPITAL SIGNS" SHALL BE MAINTAINED WITHIN FULL VIEW OF THE MOTORING PUBLIC THROUGHOUT ALL PHASES OF CONSTRUCTION. ALL WORK IN MOVING AND TEMPORARY SUPPORTS SHALL BE PAID FOR UNDER ITEM NO. 712-01 TRAFFIC CONTROL, LS..

CONSTRUCTION WORK ZONE & TRAFFIC CONTROL

(31) 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.

(32) 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.

(33) 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.

P.S. & E. REVIEW

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NHE-29(72)	2E

GENERAL NOTES

CONSTRUCTION WORK ZONE & TRAFFIC CONTROL (CONT.)

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

(35) USE OF BARRICADES, PORTABLE BARRIER RAILS, VERTICAL PANELS, 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.

(36) 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 A 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.

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

(38) ALL DETOURS SHALL BE PAVED, STRIPED, SIGNED AND THE VERTICAL PANELS ARE TO BE IN PLACE BEFORE IT IS OPENED TO TRAFFIC.

LIGHTING

(39) INSTALLATION AND MATERIALS SHALL COMPLY WITH SECTIONS 714 AND 917 OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION DATED MARCH 1, 2006 AND WITH THE LATEST REVISIONS TO THE NATIONAL ELECTRIC CODE, NFPA 70.

(40) ALL INCIDENTAL EQUIPMENT AND MATERIAL REQUIRED FOR THE SUCCESSFUL EXECUTION OF THIS WORK SHALL BE FURNISHED IN 714 ITEMS WHETHER SPECIFICALLY NOTED OR NOT.

(41) LIGHT STANDARDS SHALL BE ROUND TAPERED POLES. LENGTH SHALL BE DETERMINED BY REQUIRED MOUNTING HEIGHT.

(42) STANDARDS SHALL BE DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF THE LATEST EDITION OF THE STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORT FOR HIGHWAY SIGNS, LUMINARIES AND TRAFFIC SIGNALS PUBLISHED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS.

EROSION PREVENTION AND SEDIMENT CONTROL

DISTURBED AREA

(43) AREAS TO BE UNDISTURBED SHALL BE CLEARLY MARKED IN THE FIELD BEFORE CONSTRUCTION ACTIVITIES BEGIN.

(44) PRE-CONSTRUCTION VEGETATIVE GROUND COVER SHALL NOT BE DESTROYED, REMOVED OR DISTURBED (I.E. CLEARING AND GRUBBING INITIATED) MORE THAN 15 CALENDAR DAYS PRIOR TO GRADING OR EARTH MOVING ACTIVITIES UNLESS THE AREA IS MULCHED, SEEDED WITH MULCH, OR OTHER TEMPORARY COVER IS INSTALLED.

(45) CLEARING, GRUBBING, AND OTHER DISTURBANCE TO RIPARIAN VEGETATION SHALL BE LIMITED TO THE MINIMUM NECESSARY FOR SLOPE CONSTRUCTION AND EQUIPMENT OPERATIONS. EXISTING VEGETATION SHOULD BE PRESERVED TO THE MAXIMUM EXTENT POSSIBLE. UNNECESSARY VEGETATION REMOVAL IS PROHIBITED.

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

(47) CONSTRUCTION SHALL BE SEQUENCED AND STAGED TO MINIMIZE THE EXPOSURE TIME OF GRADED OR DENUDED SOIL AREAS, PRESERVE TOPSOIL, AND MINIMIZE SOIL COMPACTION.

(48) NO MORE THAN 50 ACRES OF ACTIVE SOIL DISTURBANCE IS ALLOWED AT ANY TIME DURING THE CONSTRUCTION OF THE PROJECT. OFF-SITE BORROW OR WASTE AREAS ARE TO BE INCLUDED IN THE TOTAL DISTURBED AREA IF THE BORROW OR WASTE AREA IS EXCLUSIVE TO THE PROJECT PER TDOT'S WASTE AND BORROW MANUAL.

SEDIMENT CONTROL

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

(50) THE CONTRACTOR SHALL ESTABLISH AND MAINTAIN A PROACTIVE METHOD TO PREVENT THE OFF-SITE MIGRATION OR DEPOSIT OF SEDIMENT ON ROADWAYS USED BY THE GENERAL PUBLIC. IF SEDIMENT ESCAPES THE CONSTRUCTION SITE, OFF-SITE ACCUMULATIONS OF SEDIMENT THAT HAVE NOT REACHED A STREAM MUST BE REMOVED AT A FREQUENCY 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.

(51) WATER PUMPED FROM WORK AREAS AND EXCAVATION MUST BE HELD IN SETTLING BASINS OR TREATED BY FILTRATION OR CHEMICAL TREATMENT PRIOR TO ITS DISCHARGE INTO SURFACE WATERS. ALL PHYSICAL AND/OR CHEMICAL TREATMENT WILL BE APPLIED IN ACCORDANCE WITH MANUFACTURER'S GUIDELINES AND FULLY DESCRIBED IN THE EPSC PLANS. WATER MUST BE HELD IN SETTLING BASINS UNTIL AT LEAST AS CLEAR AS THE RECEIVING WATERS. SETTLING BASINS SHALL NOT BE LOCATED CLOSER THAN 20 FEET FROM THE TOP BANK OF A STREAM. SETTLING BASINS AND SEDIMENT TRAPS SHALL BE PROPERLY DESIGNED ACCORDING TO 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. DISCHARGES FROM BASINS AND IMPOUNDMENTS SHALL UTILIZE OUTLET STRUCTURES THAT ONLY WITHDRAW WATER FROM NEAR THE SURFACE OF THE BASIN OR IMPOUNDMENT. DISCHARGES MUST NOT CAUSE AN OBJECTIONABLE COLOR CONTRAST WITH THE RECEIVING STREAM.

(52) CHECK DAMS SHALL BE USED WHERE RUNOFF IS CONCENTRATED. CLEAN ROCK, BRUSH, GABION, OR SANDBAG CHECK DAMS SHALL BE PROPERLY CONSTRUCTED TO REDUCE VELOCITY AND CONTROL EROSION.

(53) FOR AN OUTFALL IN A DRAINAGE AREA OF 10 ACRES OR MORE, 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 FINAL STABILIZATION OF THE SITE. THE ENVIRONMENTAL AND DESIGN DIVISIONS MAY BE CONTACTED TO REVIEW AND CONCUR WITH ANY REVISION OF THE SWPPP BEFORE DISTURBANCE OF THE OUTFALL PROCEEDS.

(54) IF PERMANENT OR TEMPORARY VEGETATION IS TO BE USED AS AN EPSC MEASURE, THEN THE TIMING OF PLANTING OF VEGETATION SHALL BE SHOWN IN THE SWPPP. DELAYING PLANTING OF COVER VEGETATION UNTIL WINTER MONTHS OR DRY MONTHS SHOULD BE AVOIDED, IF POSSIBLE.

(55) OFFSITE VEHICLE TRACKING OF SEDIMENTS AND THE GENERATION OF DUST SHALL BE MINIMIZED. A STABILIZED CONSTRUCTION ACCESS (A POINT OF ENTRANCE/EXIT TO THE CONSTRUCTION PROJECT) SHALL BE PROVIDED, AS NEEDED, TO REDUCE THE TRACKING OF MUD AND DIRT ONTO PUBLIC ROADS BY CONSTRUCTION VEHICLES.

(56) TEMPORARY EPSC MEASURES MAY BE REMOVED AT THE BEGINNING OF THE WORKDAY, BUT MUST BE REPLACED AT THE END OF THE WORKDAY.

STREAM/WETLAND

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

(58) 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.

(59) INSTREAM EPSC DEVICES REQUIRE THE ENVIRONMENTAL DIVISION'S PERMITS SECTION REVIEW AND MUST BE PROCESSED BY THE PERMITS SECTION TO OBTAIN TDEC, USACE, AND TVA PERMITS.

(60) THE OPERATION OF EQUIPMENT IN WATERS OF THE STATE/U.S., INCLUDING WETLANDS, SHALL BE ONLY AS SHOWN ON THE PROJECT PLANS AND/OR AS SO SPECIFIED IN THE ARAP/401, SECTION 404 PERMIT(S) AND/OR TVA26(A), IF APPLICABLE. ANY ADDITIONAL PERMITS REQUIRED BY THE CONTRACTOR'S METHOD OF OPERATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN, AFTER RECEIVING THE APPROVAL OF TDOT ENVIRONMENTAL DIVISION.

(61) THE WIDTH OF THE FILL ASSOCIATED WITH TEMPORARY CROSSINGS SHALL BE LIMITED TO THE MINIMUM NECESSARY FOR THE ACTUAL CROSSING.

(62) STREAM BEDS SHALL NOT BE USED AS TRANSPORTATION ROUTES FOR CONSTRUCTION EQUIPMENT. TEMPORARY CROSSINGS MUST BE LIMITED TO ONE POINT PER STREAM AND EPSC MEASURES MUST BE USED WHERE THE STREAM BANKS ARE DISTURBED. WHERE THE STREAMBED IS NOT COMPOSED OF BEDROCK, A PAD OF CLEAN ROCK MUST 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 MUST BE COMPLETELY REMOVED IN THEIR ENTIRETY AFTER THE WORK IS COMPLETED AND THE AFFECTED AREAS RETURNED TO THEIR PREEXISTING ELEVATION. ALL TEMPORARY CROSSINGS MUST BE CONSTRUCTED IN ACCORDANCE WITH STD. DWG. EC-STR-25 UNLESS SPECIFICALLY ADDRESSED IN THE EPSC PLANS. ALTERNATIVELY, PLACING A TEMPORARY BRIDGE (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.

(63) HEAVY EQUIPMENT WORKING IN WETLANDS MUST BE PLACED ON MATS, OR OTHER MEASURES MUST BE TAKEN TO MINIMIZE SOIL DISTURBANCE UNLESS SPECIFICALLY ADDRESSED IN THE EPSC PLANS. ANY MATS AND OTHER MEASURES USED FOR HEAVY EQUIPMENT MUST BE REMOVED IN THEIR ENTIRETY AFTER THE WORK IS COMPLETED.

(64) WETLANDS SHALL NOT BE USED AS EQUIPMENT STORAGE, STAGING, OR TRANSPORTATION AREAS, UNLESS PROVIDED FOR IN THE PLANS.

SPECIES

(65) 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. THE SWPPP SHALL BE MODIFIED TO INCLUDE EPSC MEASURES TO PREVENT NEGATIVE IMPACTS TO LEGALLY PROTECTED STATE OR FEDERAL FAUNA OR FLORA OR AS INDICATED IN THE ECOLOGICAL STUDIES OR ON THE PERMIT(S).

INSPECTION, MAINTENANCE, REPAIR

(66) EPSC CONTROLS WILL BE MAINTAINED IN ACCORDANCE WITH TDOT STANDARD DRAWINGS AND GOOD ENGINEERING PRACTICES.

P.S.& E. REVIEW

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GENERAL NOTES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NHE-29(72)	2F

GENERAL NOTES

INSPECTION, MAINTENANCE, REPAIR (CONT.)

(67) INSPECTION, REPAIR, AND MAINTENANCE OF EPSC MEASURES/STRUCTURES IS TO BE PERFORMED ON A REGULAR BASIS. SEDIMENT SHALL BE REMOVED FROM SEDIMENT CONTROL STRUCTURES WHEN THE DESIGN CAPACITY HAS BEEN REDUCED BY FIFTY PERCENT (50%). DURING SEDIMENT REMOVAL, THE CONTRACTOR SHALL TAKE CARE TO ENSURE THAT STRUCTURAL COMPONENTS OF EPSC MEASURES ARE NOT DAMAGED AND THUS MADE INEFFECTIVE. IF DAMAGE DOES OCCUR, THE CONTRACTOR SHALL REPAIR THE STRUCTURES AT THE CONTRACTOR'S OWN EXPENSE.

(68) SEDIMENT REMOVED FROM SEDIMENT CONTROL STRUCTURES SHALL BE PLACED AND BE TREATED IN A MANNER SO THAT THE SEDIMENT IS CONTAINED WITHIN THE PROJECT LIMITS AND DOES NOT MIGRATE INTO WATERS OF THE STATE/U.S. COST FOR THIS TREATMENT IS TO BE INCLUDED IN PRICE BID FOR ITEM NO. 209-05 SEDIMENT REMOVAL, C.Y.

(69) THE CONTRACTOR SHALL INSTALL A RAIN GAUGE EVERY LINEAR MILE AT ALL SITES WHERE CLEARING, GRUBBING, EXCAVATION, GRADING CUTTING OR FILLING IS BEING ACTIVELY PERFORMED, OR EXPOSED SOIL HAS NOT YET BEEN PERMANENTLY STABILIZED. IF THE PROJECT LENGTH IS LESS THAN ONE LINEAR MILE, ONE RAIN GAUGE SHALL BE INSTALLED AT THE CENTER OF THE PROJECT OR AS INDICATED BY THE TDOT EPSC INSPECTOR. THE CONTRACTOR SHALL ENSURE THAT EACH GAUGE IS MAINTAINED IN GOOD WORKING CONDITION. TDOT AND/OR THE CONTRACTOR SHALL RECORD DAILY PRECIPITATION AND FORECASTED PERCENTAGE OF PRECIPITATION IN DETAILED RECORDS OF RAINFALL EVENTS INCLUDING DATES, AMOUNTS OF RAINFALL PER GAUGE, THE ESTIMATED DURATION (OR STARTING AND ENDING TIMES), AND FORECASTED PERCENTAGE OF PRECIPITATION FOR THE PROJECT. THIS INFORMATION SHALL BE PROVIDED TO THE ENGINEER ON A MONTHLY BASIS. THE COST FOR THE RAIN GAUGES IS TO BE INCLUDED IN THE UNIT BID PRICES FOR OTHER ITEMS. RAIN GAUGES SHALL BE AS SPECIFIED IN THE APPROVED TDOT RAINFALL MONITORING PLAN.

(70) INSPECTION OF EPSC MEASURES SHALL BE DONE AT LEAST TWICE PER CALENDAR WEEK AT LEAST 72 HOURS APART. A CALENDAR WEEK IS DEFINED AS SUNDAY THROUGH SATURDAY. QUALITY ASSURANCE/QUALITY CONTROL SITE ASSESSMENT OF EPSC SHALL BE PERFORMED PER THE TDOT ENVIRONMENTAL DIVISION'S COMPREHENSIVE INSPECTION OFFICE GUIDELINES.

(71) OUTFALL POINTS SHALL BE INSPECTED TO ASCERTAIN WHETHER EPSC MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO SURROUNDING WATERS. WHERE DISCHARGE LOCATIONS ARE INACCESSIBLE, NEARBY DOWNSTREAM LOCATIONS SHALL BE INSPECTED. LOCATIONS WHERE VEHICLES ENTER AND EXIT THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFF-SITE ROADWAY SEDIMENT TRACKING.

(72) 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 TIMEFRAME, WRITTEN DOCUMENTATION MUST BE PROVIDED IN THE FIELD BOOK AND AN ESTIMATED REPAIR, REPLACEMENT OR MODIFICATION SCHEDULE SHALL BE DOCUMENTED WITHIN 24 HOURS AFTER IDENTIFICATION.

(73) THE TDOT PROJECT SUPERVISOR (OR THEIR DESIGNEE) AND THE CONTRACTOR'S SITE SUPERINTENDENT ARE RESPONSIBLE FOR INSPECTIONS. MAINTENANCE AND REPAIR ACTIVITIES ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE TDOT PROJECT SUPERVISOR OR THEIR DESIGNEE WILL COMPLETE THE INSPECTION REPORTS AND DISTRIBUTE COPIES PER THE CONTRACT.

MATERIALS

(74) WASTE AND BORROW AREAS SHALL BE LOCATED IN NON-WETLAND AREAS AND ABOVE THE 100-YEAR, FEDERAL EMERGENCY MANAGEMENT AGENCY FLOODPLAIN. BORROW AND WASTE DISPOSAL AREAS SHALL NOT AFFECT ANY WATERS OF THE STATE/U.S. UNLESS THESE AREAS ARE SPECIFICALLY COVERED BY AN ARAP, 404, OR NPDES PERMIT, OBTAINED SOLELY BY THE CONTRACTOR.

SWPPP, PERMITS, PLANS, RECORDS

(75) THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR AND OBTAIN ANY NECESSARY ENVIRONMENTAL PERMITS OR APPROVALS, INCLUDING BUT NOT LIMITED TO TDEC ARAP/401, USACE SECTION 404, TVA SECTION 26A, AND TDEC NPDES PERMITS, FROM FEDERAL, STATE AND/OR LOCAL AGENCIES REGARDING THE OPERATION OF ANY PROJECT-DEDICATED ASPHALT AND/OR CONCRETE PLANTS.

(76) ANY DISAGREEMENT BETWEEN THE PROJECT PLANS, THE PROJECT AS CONSTRUCTED, AND THE PERMIT(S) ISSUED FOR THE PROJECT, SHALL BE BROUGHT TO THE ATTENTION OF THE TDOT PROJECT ENGINEER. 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.

(77) THE FOLLOWING INFORMATION SHALL BE MAINTAINED ON OR NEAR THE SITE: DATES THAT MAJOR GRADING ACTIVITIES OCCUR, DATES WHERE CONSTRUCTION ACTIVITIES TEMPORARILY OR PERMANENTLY CEASE ON A PORTION OF THE SITE, DATES WHEN STABILIZATION MEASURES ARE INITIATED, EPSC INSPECTION RECORDS, QUALITY ASSURANCE SITE ASSESSMENT RECORDS, PRECIPITATION RECORDS, SWPPP, PROJECT ENVIRONMENTAL PERMITS, AND A COPY OF THE PROJECT EPSC INSPECTOR'S TDEC LEVEL 1 CERTIFICATION.

(78) ALL WATER QUALITY AND STORM WATER PERMITS, INCLUDING A COPY OF THE NOC WITH NPDES PERMIT TRACKING NUMBER AND THE LOCATION OF THE SWPPP, 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 BREIF 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.

(79) IF A CHANGE IN PROJECT SCOPE OCCURS DURING CONSTRUCTION, INCLUDING VALUE ENGINEERING, THE ENVIRONMENTAL DIVISION SHALL BE CONTACTED TO DETERMINE WHETHER PERMIT REVISIONS OR MODIFICATIONS OF THE SWPPP ARE NEEDED. THE DESIGN DIVISION SHALL BE CONTACTED TO DETERMINE IF ANY PLAN REVISIONS ARE NEEDED.

(80) THE SWPPP SHALL BE UPDATED BY CONSTRUCTION WHENEVER EPSC INSPECTIONS INDICATE, OR WHERE STATE OR FEDERAL 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 STORM WATER DISCHARGES ASSOCIATED WITH THE CONSTRUCTION ACTIVITY. THE ENVIRONMENTAL DIVISION SHALL BE CONTACTED WHEN MAJOR DESIGN REVISIONS ARE REQUESTED BY CONSTRUCTION. THE ENVIRONMENTAL DIVISION MAY BE CONTACTED FOR GUIDANCE ON SPECIFIC SWPPP NEEDS. A COPY OF ANY CORRESPONDENCE REGARDING THE EFFECTIVENESS OF THE SWPPP OR EPSC CONTROLS SHALL BE RETAINED IN THE SWPPP.

(81) THE SWPPP SHALL BE UPDATED BY CONSTRUCTION WHENEVER A CHANGE IN CHEMICAL TREATMENT METHODS IS MADE INCLUDING USE OF A DIFFERENT CHEMICAL, DIFFERENT DOSAGE OR APPLICATION RATE, OR A DIFFERENT AREA OF APPLICATION.

(82) IF A TMDL IS DEVELOPED FOR THE RECEIVING WATERS FOR A POLLUTANT OF CONCERN (SILTATION AND/OR HABITAT ALTERATION) THE SWPPP SHALL BE MODIFIED OR UPDATED.

(83) PROJECT INSPECTORS AND SUPERVISORS (INCLUDING TDOT STAFF, CONSULTANTS AND CONTRACTOR STAFF) RESPONSIBLE FOR THE IMPLEMENTATION AND MAINTENANCE OF EPSC PLANS SHALL SUCCESSFULLY COMPLETE THE TDEC "LEVEL 1 - FUNDAMENTALS OF EROSION PREVENTION AND SEDIMENT CONTROL FOR CONSTRUCTION SITES" COURSE AND ANY REFRESHER COURSES AS REQUIRED TO MAINTAIN CERTIFICATION. A COPY OF CERTIFICATION RECORDS FOR THE COURSES SHALL BE KEPT ON SITE AND AVAILABLE UPON REQUEST.

LITTER, DEBRIS, WASTE, PETROLEUM

(84) THE CONTRACTOR SHALL ESTABLISH AND MAINTAIN A PROACTIVE METHOD TO PREVENT LITTER, CONSTRUCTION DEBRIS, AND CONSTRUCTION WASTES FROM ENTERING WATERS OF THE STATE/U.S. THESE MATERIALS WILL BE PICKED UP AND REMOVED FROM STORMWATER EXPOSURE PRIOR TO ANTICIPATED STORM EVENTS. AFTER USE, MATERIALS USED FOR EPSC WILL BE REMOVED FROM THE SITE.

(85) THE CONTRACTOR SHALL TAKE APPROPRIATE STEPS TO ENSURE THAT PETROLEUM PRODUCTS OR OTHER CHEMICAL POLLUTANTS ARE PREVENTED FROM ENTERING WATERS OF THE STATE/U.S. ALL EQUIPMENT REFUELING, SERVICING, AND STAGING AREAS SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL LAWS, RULES, REGULATIONS, AND ORDINANCES, INCLUDING THOSE OF THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA). APPROPRIATE CONTAINMENT MEASURES FOR THESE AREAS SHALL BE USED. ALL SPILLS MUST BE REPORTED TO THE APPROPRIATE AGENCY, AND MEASURES SHALL BE TAKEN IMMEDIATELY TO PREVENT THE POLLUTION OF WATERS OF THE STATE/U.S., INCLUDING GROUNDWATER, SHOULD A SPILL OCCUR.

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GENERAL NOTES, SPECIAL NOTES AND SCOPE OF WORK

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NHE-29(72)	2G

SPECIAL NOTES

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EROSION PREVENTION AND SEDIMENT CONTROL

NPDES

(1) REFER TO THE EROSION PREVENTION AND SEDIMENT CONTROL PLAN, SHEET 7, FOR NOTES REGARDING SEASONAL WORK LIMITATION OR LIMITATION ON THE TOTAL AREA OF EXPOSED SOIL.

ENVIRONMENTAL

ECOLOGY

(2) STAFF FROM THE TDOT ENVIRONMENTAL DIVISION OR A DESIGNEE WILL ADVISE THE CONTRACTOR DURING THE PRE-CONSTRUCTION MEETING CONCERNING WHEN ENVIRONMENTAL DIVISION PERSONNEL OR DESIGNATED CONSULTANT WILL NEED TO BE ON-SITE FOR WORK BEING DONE WHICH COULD AFFECT THE STREAM OR SPECIES.

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

(4) ALL BRIDGE PROJECTS WITH THREATENED OR ENDANGERED SPECIES OR CRITICAL HABITAT IDENTIFIED MUST HAVE MEASURES IN PLACE TO CONTAIN CONCRETE DUST, CEMENT DUST AND ALL OTHER MATERIALS. THESE MATERIALS ARE NOT ALLOWED TO ENTER THE STREAM.

LIGHTING

(5) THE GROUND WIRE SHALL BE RUN INSIDE CONDUIT WITHIN STRUCTURES, SHALL BE SOLID COPPER, COLORED GREEN AND HAVE USE-2 RUGGEDIZED INSULATION.

(6) OFFSET LUMINAIRES SHALL BE OFF ROADWAY LIGHT ORL SERIES, 400W HPS, COPPER LIGHTING CATALOGUE NUMBER ORL40SW8XX-B, 50,000 LUMENS, BALLASTED FOR 240V OPERATION WITH 350 TILT AND 35 FT. MOUNTING HEIGHT.

(7) WHERE EXISTING ROADWAY LIGHT POLES ARE TO BE REMOVED, THE REMAINING LIGHTING CIRCUITRY SHALL BE REWIRED AND RECONNECTED.

(8) THE CONTRACTOR SHALL USE THE MANUFACTURER'S RECOMMENDED GROUNDING ATTACHMENT CONNECTOR ON ALL EQUIPMENT.

(9) LIGHT POLES SHALL BE INSTALLED SO THAT THE HAND HOLE IS ORIENTED OPPOSITE THE FLOW OF TRAFFIC.

(10) LUMINARIES ON THE SAME CIRCUIT SHALL BE WIRED ON ALTERNATING PHASES. THE CONTRACTOR IS TO ENSURE THAT LIGHTING LOADS ARE DISTRIBUTED AS EVENLY AS POSSIBLE ON EACH PHASE.

(11) PRIOR TO WORK ON ANY OF THE EXISTING CONTROL CENTERS, THE CONTRACTOR SHALL CONTACT MIKE JONES, CHATTANOOGA ELECTRIC POWER BOARD (EPB), 423-648-3439.

(12) EXISTING CONDUIT TO BE ABANDONED SHALL BE PLUGGED ON BOTH ENDS.

(13) FOR JACK AND BORE, USE 1-2" CONDUIT (PVC), SCHEDULE 80 EQUIVALENT. CONDUIT CROSSING SHALL BE SEAMLESS.

(14) SALVAGEABLE EQUIPMENT SHALL BE STOCKPILED ON THE JOBSITE FOR PICK UP BY EPB. CONTRACTOR SHALL CONTACT MIKE JONES, (423) 648-3439, FOR PICKUP.

(15) ANY NON-SALAGEABLE EQUIPMENT SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

(16) EPB WILL INSPECT ALL WORK BEFORE ACCEPTING THE LIGHTING SYSTEM, INCLUDING THE INSTALLATION OF BASES, HAND HOLES, CONDUIT SYSTEM, CONTROLLERS, AND ALL CIRCUIT MATERIALS, CONTACT MIKE JONES, (423) 648-3439.

(17) WHERE POSSIBLE, EXISTING LUMINAIRES SHALL REMAIN IN PLACE UNTIL THE PROPOSED LIGHTING SYSTEM IS OPERATIONAL.

(18) THE CONTRACTOR IS TO ENSURE THAT ANY EXISTING LUMINAIRE THAT REMAIN IN PLACE CONTINUES TO BE ENERGIZED.

(19) SOME UTILITES MAY REQUIRE LOCATION BY HAND DIGGING PRIOR TO PROPOSED LIGHT POLE INSTALLATION.

(20) POLES MAY BE ADJUSTED 5'. ANY ADJUSTMENT GREATER THAN 5' SHALL BE APPROVED BY THE ENGINEER.

LIGHTING SCOPE OF SERVICES

(21) THE PROPOSED LIGHTING DESIGN LIMITS INCLUDES OVERPASS LIGHTING ON I-124 FROM THE BEGINNING OF THE OLGIATI BRIDGE TO MANUFACTURES RD.

(22) THERE ARE A TOTAL OF 34-LIGHT POLES WITH LUMINAIRES ON 15' ARMS' TO BE REMOVED FROM THE EXISTING BRIDGE.

(23) THERE ARE 23-PROPOSED OFFSET LUMINAIRES (400W HPS) THAT SHALL BE INSTALLED ON THE BRIDGE (LP1 THRU LP8 AND LP 14 THRU LP 28). FOR BRIDGE LIGHTING DETAILS, SEE SHEETS 12D AND 12E.

(24) THERE ARE 5-EXISTING ROADWAY LUMINAIRES (250W HPS) WITH 15' ARMS ON THE BRIDGE TO REMAIN (LP 9 THRU LP 13).

(25) FOR BRIDGE MOUNTED FOOTING, SEE STD. DWG. STD-8-2SS.

(26) FOR 1-124 (SR29 / US27) LIGHTING NORTH OF MANUFACTURER'S ROAD SEE TDOT PROJECT PLAN NHE-29(48).

SCOPE OF WORK

THE WIDENING OF THE EXISTING BRIDGE ON I-124 (S.R.29 / U.S. 27) OVER THE TENNESSEE RIVER (NICKAJACK LAKE) AS SHOWN ON THE PLANS AND AS DIRECTED BT THE ENGINEER.

THE CONSTRUICTION AND REMOVAL OF CRANE PADS AS SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER.

THE INSTALLATION OF A STREET LIGHTING SYSTEM AS SHOWN ON THE PLANS AND DIRECTED BY THE ENGINEER.

THE INSTALLATION OF PAVEMENT MARKING AND SIGNING AS SHOWN ON THE PLANS AND DIRECTED BY THE ENGINEER

ALL SODDING, SEEDING, EROSION PREVENTION AND SEDIMENT CONTROL (EPSC), TRAFFIC CONTROL AND ALL OTHER ITEMS SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER TO COMPLETE THE PROJECT.

P.S.& E.
REVIEW

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DEPARTMENT OF TRANSPORTATION

GENERAL NOTES, SPECIAL NOTES AND SCOPE OF WORK

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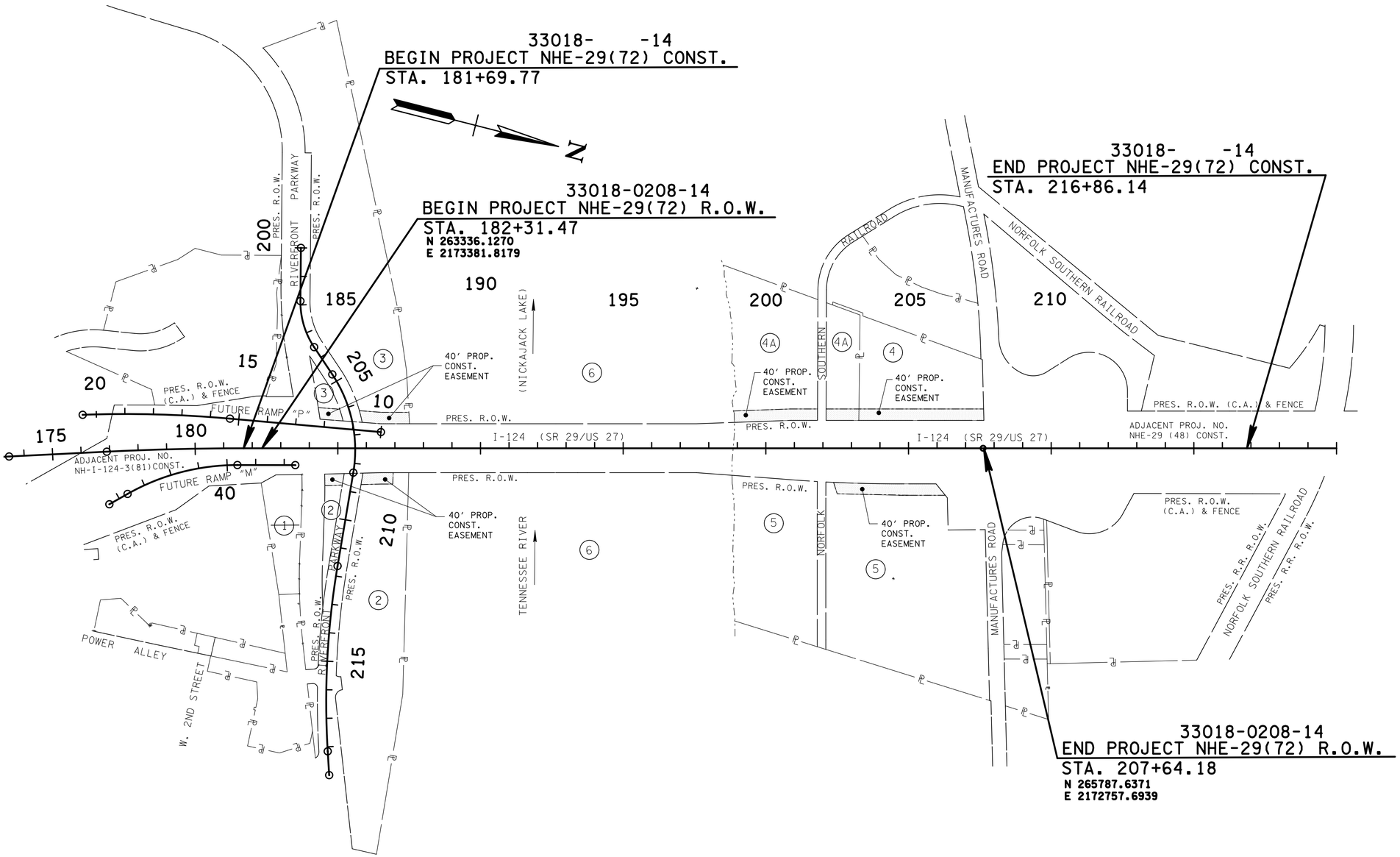
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2011	NHE-29(72)	3
CONST.	2014	NHE-29(72)	3

REV. 7-20-12: ADDED TRACT NO. 4A. REMOVED CONSTRUCTION EASEMENT ON TRACT NO. 1. REVISED TOTAL AREA, AREA REMAINING AND CONSTRUCTION EASEMENTS FOR TRACT NO. 4 .

REV. 2-13-13: REVISED CONSTRUCTION EASEMENTS FOR TRACT NOS. 2 AND 5 .

REV. 10-28-13: REVISED CONSTRUCTION EASEMENTS FOR TRACT NOS. 2.



P.S.& E. REVIEW

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R.O.W. ACQUISITION TABLE

TRACT NO.	PROPERTY OWNERS	COUNTY RECORDS				TOTAL AREA ACRES			AREA TO BE ACQUIRED ACRES			AREA REMAINING		EASEMENT (SQUARE FEET)		
		TAX MAP NO.	PARCEL NO.	DEED DOCUMENT BK.	DEED DOCUMENT PAGE	LEFT	RIGHT	TOTAL	LEFT	RIGHT	TOTAL	LEFT	RIGHT	PERM. DRAINAGE	SLOPE	CONST.
~~1~~	~~THE RIVERCITY COMPANY~~	~~135K "A"~~	~~4.04~~	~~5658~~	~~0422~~		~~1.035~~	~~1.035~~					~~1.035~~			
2	THE CITY OF CHATTANOOGA, TENNESSEE	135K "A"	3	2166	0183		4.518	4.518					4.518			6937 (1)
3	MARINE MAX OF TENNESSEE	135N "A"	6	2166	0183	4.427		4.427				4.427				9772(1)
4	J.I.T. TERMINAL, INC.	135J "B"	9.02	5268	121	3.000		3.000				3.000				17504(1)
4A	JIT STEEL SERVICE,INC.	135J "B"	9.01	7337	742	4.000		4.000				4.000				16291 (1)
5	J.I.T. TERMINAL, INC.	135F "H"	1.02	3428	147		8.128	12.128					8.128			14633 (1)
6	NICKAJACK RESERVATION, C/O TVA REALTY SERVICES															

(1) FOR CONSTRUCTION OF CRANE PADS, WORKING ROOM AND EPSC MEASURES

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPERTY MAP AND RIGHT-OF-WAY ACQUISITION TABLE

SCALE: 1"=200'

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2011	NHE-29(72)	3A
CONST.	2014	NHE-29(72)	3A

UTILITY OWNERS

UTILITY	OWNER	PHONE NO.	CONTACT	ADDRESS	CITY	STATE	ZIP CODE
TELEPHONE	BELLSOUTH	(423) 752-9132	JON MOUNTS	300 E. MARTIN LUTHER KING BLVD.	CHATTANOOGA	TN	37403
WATER	TENNESSEE-AMERICAN WATER COMPANY	(423) 755-7617	JOHN WATSON	P.O. BOX 6338, 1101 BROAD ST.	CHATTANOOGA	TN	37401
SEWER	CITY OF CHATTANOOGA	(423) 209-7840	RON LITTLEFIELD	101 E. 11TH STREET, 3RD FL.	CHATTANOOGA	TN	37402
GAS	ATLANTA GAS AND LIGHT CO.	(404) 584-328	BENJAMIN MASSENGILL	10 PEACHTREE PLACE, 11TH FL.	ATLANTA	GA	30309
POWER	CHATTANOOGA ELECTRIC POWER BOARD	(423) 648-3257	DAVID HENDERSON	P.O. BOX 182255	CHATTANOOGA	TN	37422
CABLE TV	COMCAST	(423) 296-2119	VALERIE GILLESPIE	P.O. BOX 182269	CHATTANOOGA	TN	37421

CONTROL POINTS

POINT	NORTH	EAST	ELEV.	STATION	OFFSET
S14 (GPS 33-124-14)	263144.9199	2173554.8799	724.60		
SL3342	263112.3050	2173383.8839			
SL3347	263251.6285	2173295.5422			
2	266239.0810	2172602.2568	686.81	212+40.02	39.25′ (LT)
3	265798.1702	2172566.5456		208+21.55	182.64′ (LT)
29	265884.5126	2173072.5075		207+80.39	328.98′ (RT)

NOTE : SEE PRESENT LAYOUT SHEETS FOR CONTROL POINT LOCATIONS.
LOCATION AND ELEVATION OF CONTROL POINT 2 IS TO BE CHECKED
FOR DISTURBANCE PRIOR TO USING.

RIGHT - OF - WAY NOTES

(1) IT IS INTENDED THAT ALL BUILDINGS AND/OR PORTIONS OF BUILDINGS THAT ARE WITHIN THE PROPOSED RIGHT-OF-WAY AND/OR EASEMENT LINES FOR THE PROJECT BE REMOVED THERE FROM IN THE PROCESS OF RIGHT-OF-WAY ACQUISITION. IF ANY SUCH BUILDINGS OR IMPROVEMENTS ARE NOT REMOVED IN THE COURSE OF RIGHT-OF-WAY ACQUISITION, THE CIVIL ENGINEERING MANAGER 2, DESIGN DIVISION AND THE CIVIL ENGINEERING MANAGER 1, REGIONAL DESIGN OFFICE, ARE TO BE NOTIFIED IN SUFFICIENT TIME TO PERMIT HAVING SUCH REMOVALS DESIGNATED AS A PART OF THE CONSTRUCTION CONTRACT.

(2) ALL RAMPS MUST CONFORM TO THE DEPARTMENT'S " POLICY ON FINANCING CONSTRUCTION OF PUBLIC ROAD INTERSECTIONS AND DRIVEWAYS ON HIGHWAY RESURFACING, RECONSTRUCTION AND CONSTRUCTION PROJECTS ON NEW LOCATIONS " , THE MANUAL ON RULES AND REGULATIONS FOR CONSTRUCTING DRIVEWAYS ON STATE HIGHWAY RIGHT-OF-WAY, STANDARD DRAWING RP-R-1, AND OTHER ACCEPTED DESIGN AND SAFETY STANDARDS.

(3) EXISTING PAVED DRIVEWAY PER TRACT REMAINDER WILL BE REPLACED IN KIND TO A TOUCHDOWN POINT.

(4) ANY NECESSARY PAVING OF DRIVEWAYS WILL BE DONE DURING PAVING OPERATIONS ON THE MAIN ROADWAY.

(5) NEW DRIVEWAYS PROVIDED IN THE PLANS WILL BE PAVED BASED ON THE 7 PERCENT CRITERIA. THOSE 7 PERCENT OR STEEPER IN GRADE WILL BE PAVED AND THOSE FLATTER THAN 7 PERCENT WILL BE COVERED WITH BASE STONE.

(7) ON PROJECTS WITH CURB AND GUTTER THAT ARE ON STATE ROUTES, IT WILL BE THE RESPONSIBILITY OF THE OWNER TO SECURE A PERMIT. AFTER THE PERMIT HAS BEEN GRANTED, THE DEPARTMENT WILL CONSTRUCT THE DRIVEWAY OR FIELD ENTRANCE THROUGH THE CURB AND SIDEWALK, PROVIDED THE CURB AND SIDEWALK HAVE NOT BEEN CONSTRUCTED. IT WILL BE THE RESPONSIBILITY OF THE PROPERTY OWNER TO CONSTRUCT THE DRIVEWAY OR FIELD ENTRANCE FROM BACK OF SIDEWALK TO TOUCHDOWN POINT FOR ANY ADDITIONAL DRIVEWAYS OR FIELD ENTRANCES OTHER THAN THOSE PROVIDED IN THE PLANS.

(8) ON NON-STATE ROUTES, ADDITIONAL DRIVEWAYS AND FIELD ENTRANCES OTHER THAN THOSE PROVIDED IN THE PLANS SHALL REQUIRE A PERMIT ONLY IF THE LOCAL AGENCY SPECIFIES THE NEED FOR THAT PERMIT.

(9) EASEMENT REQUIRED FOR THE RAILROAD CROSSING IS TO BE OBTAINED BY THE UTILITES ENGINEER BY PROVISIONS CONTAINED IN THE CROSSING AGREEMENT NEGOTIATED WITH THE RAILROAD.

UTILITY NOTES

1. THE LOCATIONS OF UTILITIES SHOWN WITHIN THESE PLANS ARE APPROXIMATE ONLY. EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD BY CONTACTING THE UTILITY COMPANIES INVOLVED. NOTIFICATION BY CALLING THE TENNESSEE ONE CALL SYSTEM, INC. AT 1-800-351-1111 AS REQUIRED BY TCA 65-31-106 WILL BE REQUIRED.

2. UNLESS OTHERWISE NOTED, ALL UTILITY ADJUSTMENTS WILL BE PERFORMED BY THE UTILITY OR 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.

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R.O.W. NOTES,
UTILITY NOTES,
UTILITY OWNERS
AND
CONTROL POINTS

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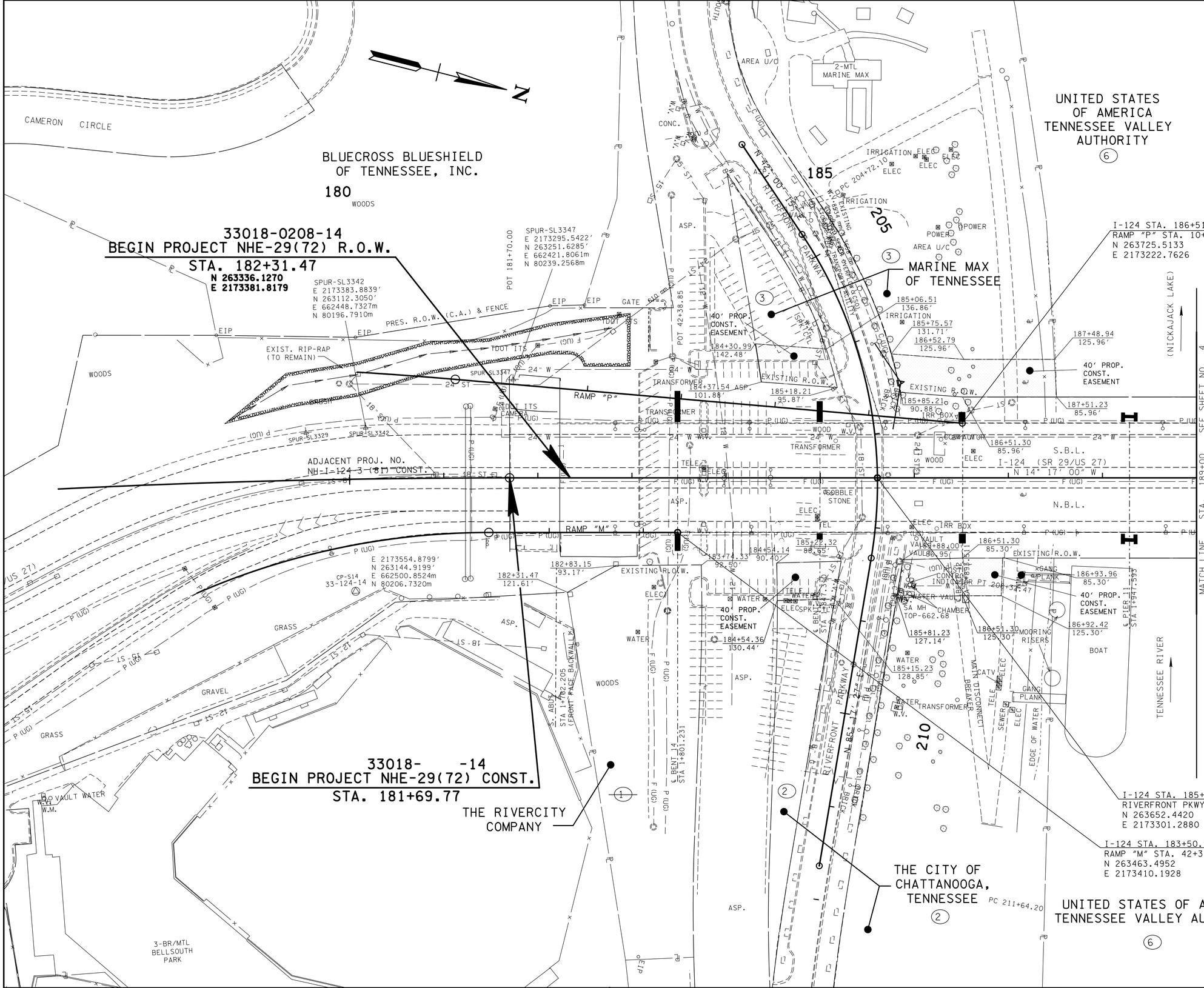
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2011	NHE-29(72)	4
CONST.	2014	NHE-29(72)	4

REV. 7-20-12 : UPDATED FIRE SUPPRESSION LINE TO RIVERBOAT AND UPDATED TOPO TO RIVERBOAT. REMOVED CONSTRUCTION EASEMENT OFF TRACT NO. 1.

REV. 10-28-13 : REVISED CONSTRUCTION EASEMENT ON TRACT NO. 2. ADDED NOTE STATING CITY OF CHATTANOOGA & SOUTHERN BELL SHOULD EXPECT TEMPORARY CLOSURES PERIODICALLY DURING CRANE USE FOR SAFETY PURPOSES.THEY WILL BE NOTIFIED IN ADVANCE OF SAID WORK.



NOTE:
CITY OF CHATTANOOGA & SOUTHERN BELL SHOULD EXPECT TEMPORARY CLOSURES PERIODICALLY DURING CRANE USE FOR SAFETY PURPOSES.THEY WILL BE NOTIFIED IN ADVANCE OF SAID WORK.

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COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
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PRESENT LAYOUT

STA.180+00.00 TO STA.189+00

SCALE: 1"= 50'

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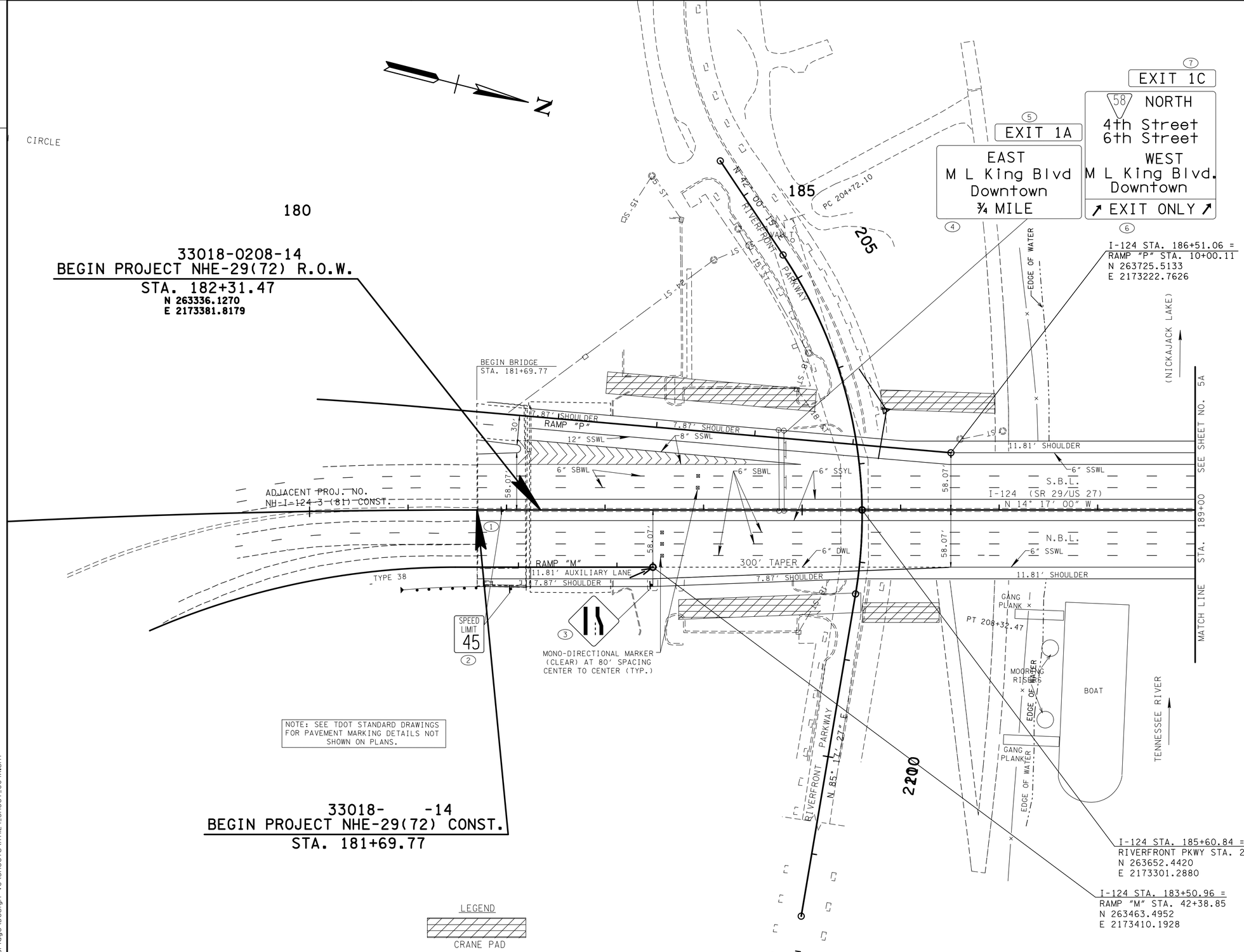
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2011	NHE-29(72)	4A
CONST.	2014	NHE-29(72)	4A



NOTE: SEE TDOT STANDARD DRAWINGS FOR PAVEMENT MARKING DETAILS NOT SHOWN ON PLANS.

33018- -14
BEGIN PROJECT NHE-29(72) CONST.
STA. 181+69.77

I-124 STA. 185+60.84 =
RIVERFRONT PKWY STA. 207+46.84
N 263652.4420
E 2173301.2880

I-124 STA. 183+50.96 =
RAMP "M" STA. 42+38.85
N 263463.4952
E 2173410.1928

LEGEND

CRANE PAD

NOTE: ALL CRANE PADS AND MATERIALS ARE TO BE REMOVED TO EXISTING CONTOURS, TOPSOILED AND SEEDED WITH MULCH WHERE VEGETATION IS DAMAGED DUE TO CONSTRUCTION OF CRANE PADS.

P.S. & E. REVIEW

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COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA.180+00.00 TO STA.189+00

SCALE: 1"= 50' HORIZ.

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TYPE	YEAR	PROJECT NO.	SHEET NO.
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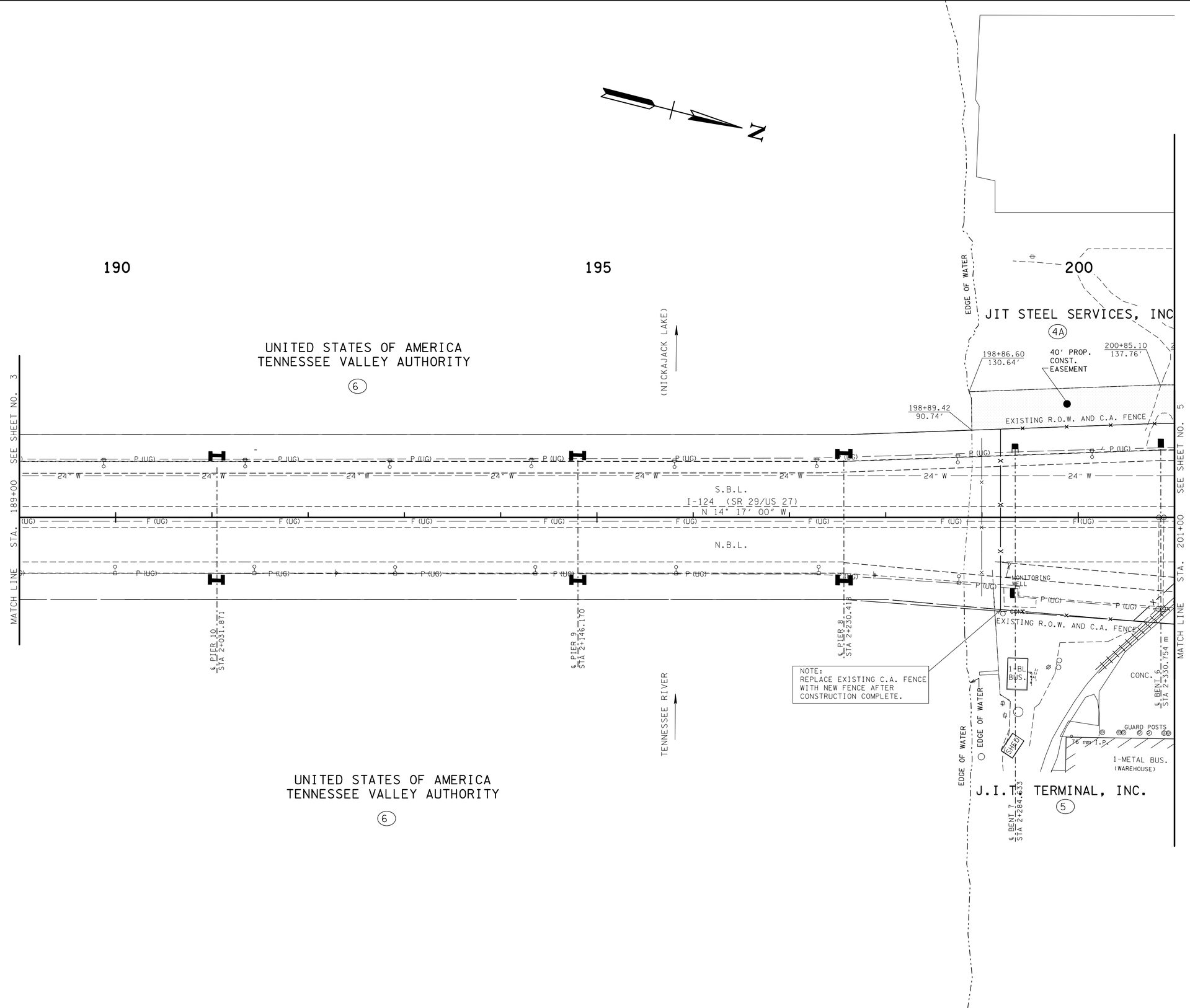
CONST.	2014	NHE-29(72)	5

REV. 7-20-12 : ADDED TRACT TRACT NO. 4A.



P.S. & E. REVIEW

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 189+00 TO STA. 201+00

SCALE: 1"= 50'

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
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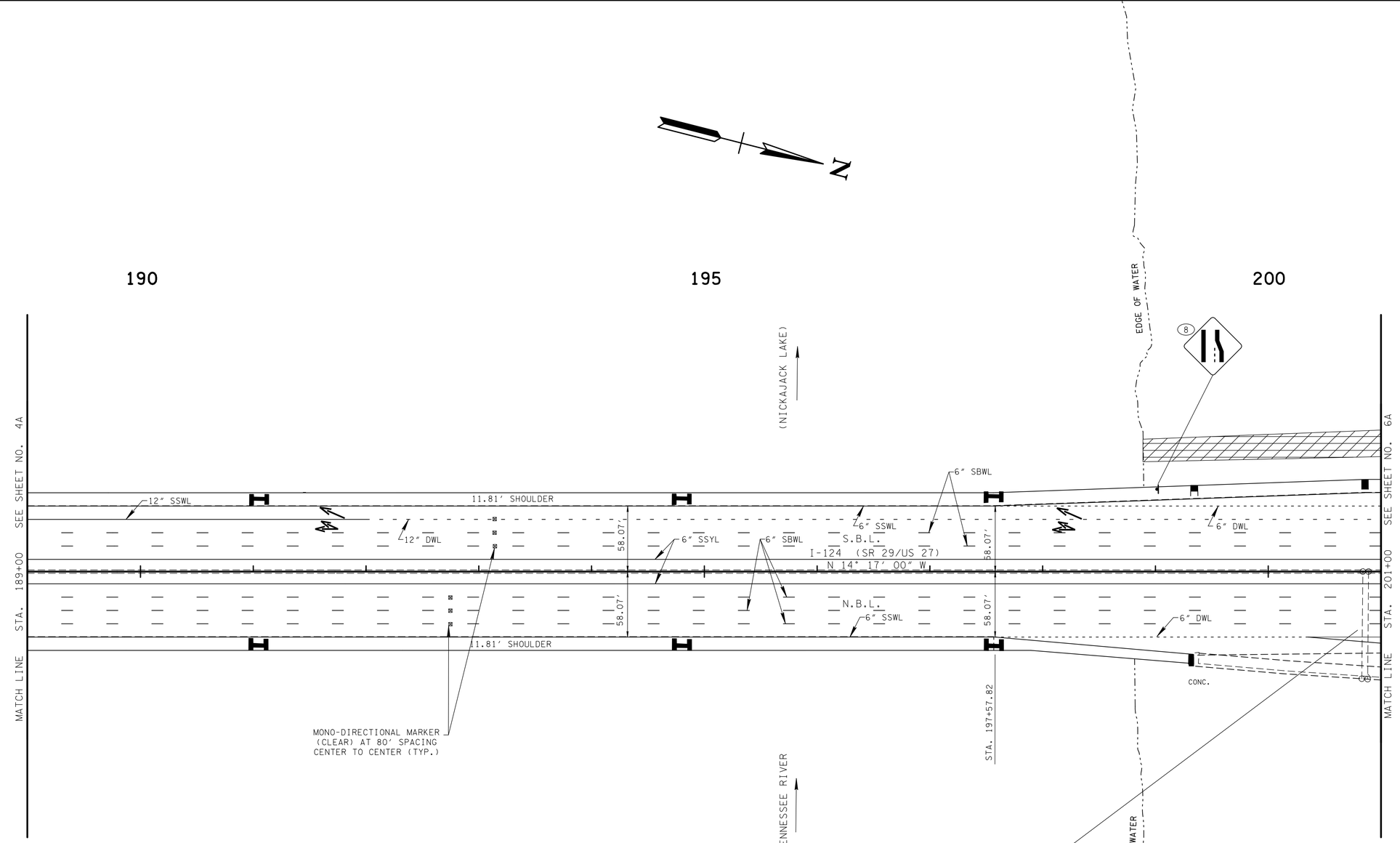
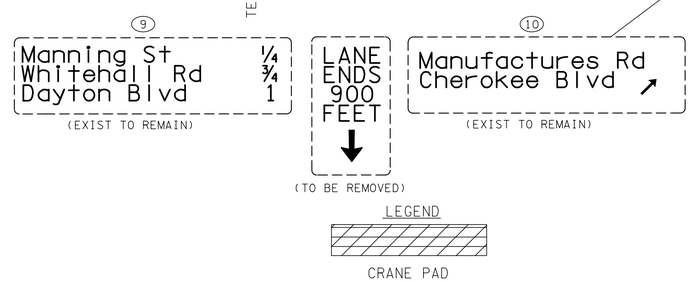
CONST.	2014	NHE-29(72)	5A



NOTE: SEE TDOT STANDARD DRAWINGS FOR PAVEMENT MARKING DETAILS NOT SHOWN ON PLANS.



LEGEND

CRANE PAD

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P.S. & E. REVIEW

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA. 189+00 TO STA. 201+00

SCALE: 1"= 50' HORIZ.

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TYPE	YEAR	PROJECT NO.	SHEET NO.
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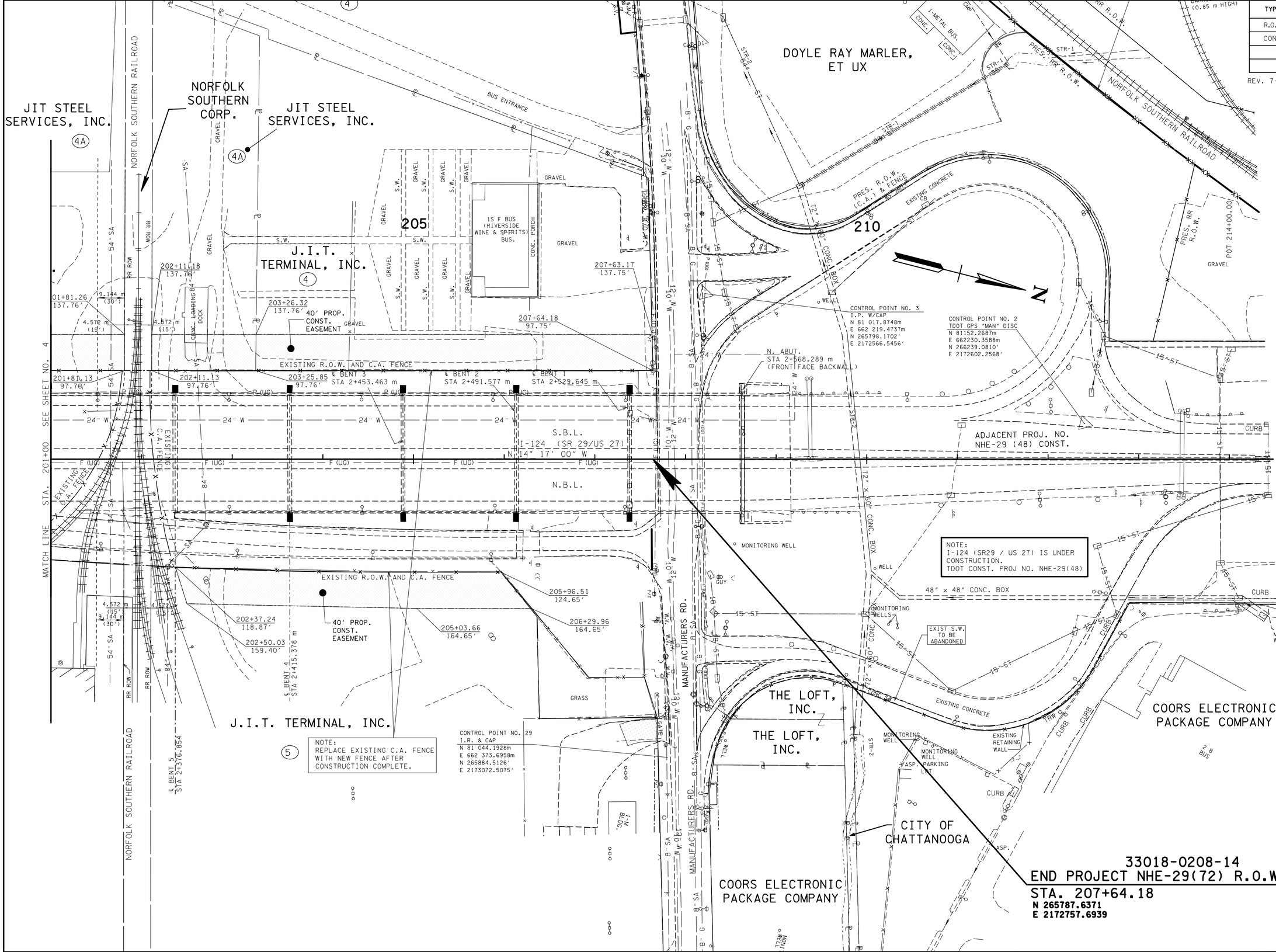
CONST.	2014	NHE-29(72)	6

REV. 7-20-12 : ADDED TRACT TRACT NO. 4A.



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 201+00 TO STA. 207+64.18

SCALE: 1"= 50'

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
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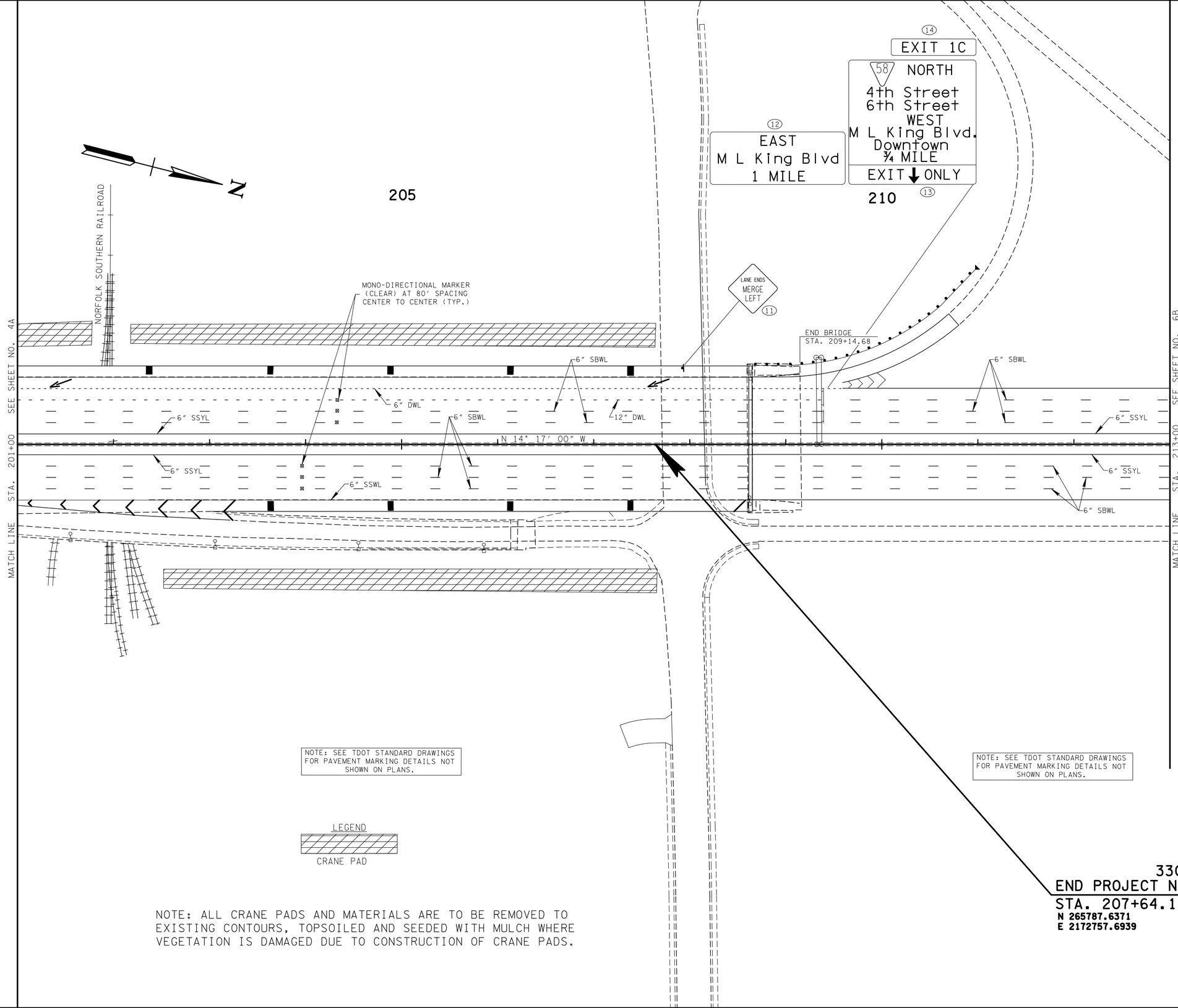
CONST.	2014	NHE-29(72)	6A



NOTE: SEE TDOT STANDARD DRAWINGS FOR PAVEMENT MARKING DETAILS NOT SHOWN ON PLANS.

NOTE: SEE TDOT STANDARD DRAWINGS FOR PAVEMENT MARKING DETAILS NOT SHOWN ON PLANS.

LEGEND

CRANE PAD

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33018-0208-14
END PROJECT NHE-29(72) R.O.W
STA. 207+64.18
N 265787.6371
E 2172757.6939

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA. 201+00 TO STA. 213+00.00

SCALE: 1"= 50' HORIZ.

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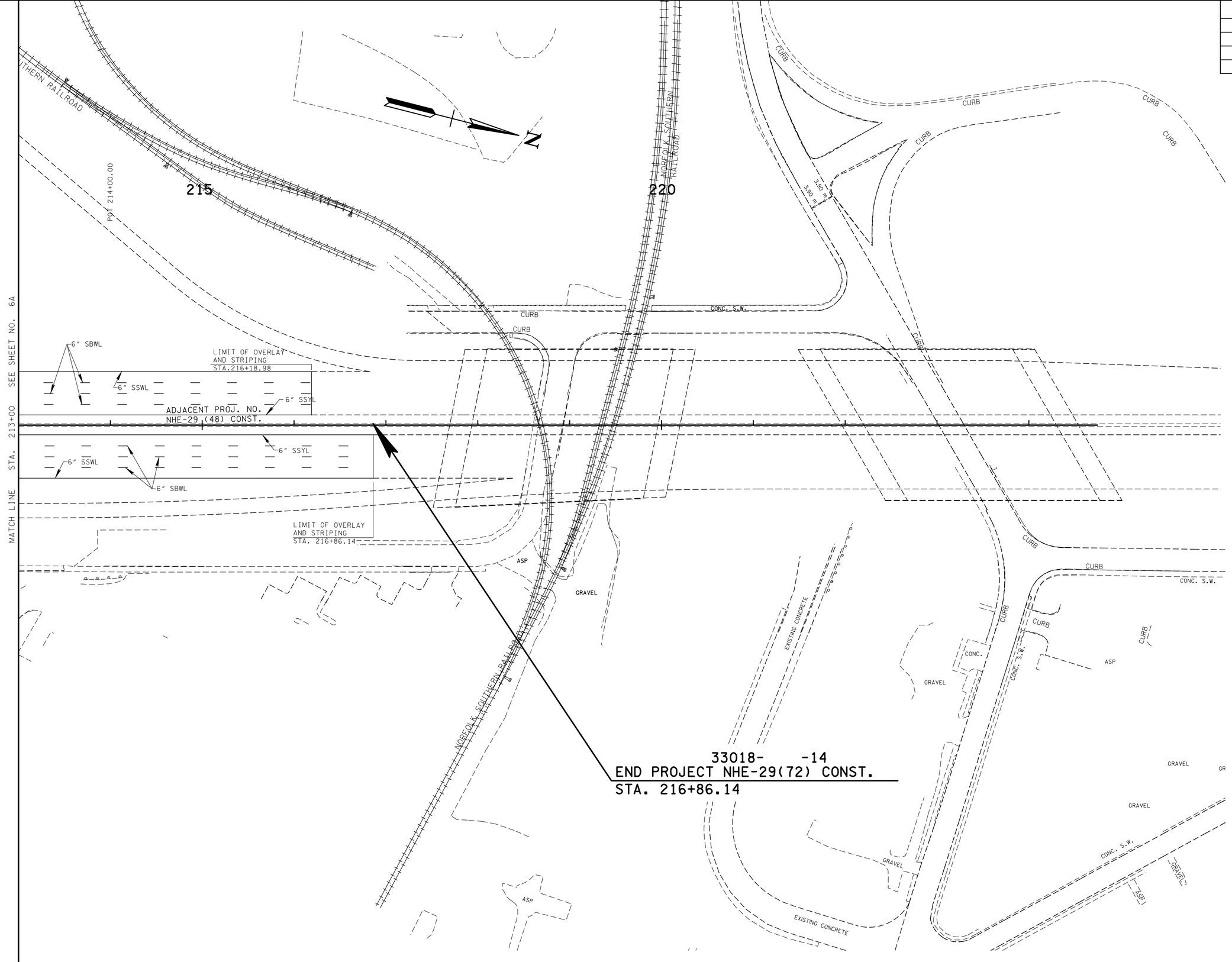
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NHE-29(72)	6B



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA. 213+00 TO E.O.P.

SCALE: 1"= 50' HORIZ.

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2011	NHE-29(72)	7
CONST.	2014	NHE-29(72)	7

EROSION PREVENTION AND SEDIMENT CONTROL NOTES

STREAM/WETLAND

(1) ANY WORK WITHIN THE STREAM CHANNEL AREA (E.G., FOR PIER FOOTING, RIP-RAP PLACEMENT, MULTI-BARREL CULVERT/BRIDGE CONSTRUCTION, ETC.) SHALL BE SEPARATED FROM FLOWING WATER OR EXPECTED FLOW PATH AND PERFORMED DURING LOW FLOW CONDITIONS. ALL ITEMS USED WITHIN THE STREAM CHANNEL AREA FOR DIVERSION OF FLOW (OR EXPECTED FLOW), UNLESS SPECIFIED IN THE PLANS, SHALL NOT BE PAID FOR DIRECTLY BUT SHALL BE INCLUDED IN THE COST OF OTHER ITEMS. THIS NOTE EXCLUDES ANY ITEMS SPECIFIED IN THE PLANS FOR THE TEMPORARY DIVERSION CHANNELS, EC-STR-31 AND TEMPORARY DIVERSION CULVERTS, EC-STR-32 FOR SINGLE BARREL CULVERT CONSTRUCTION.

(2) A 30 FOOT NATURAL RIPARIAN BUFFER ZONE ADJACENT TO AND ON BOTH SIDES OF THE RECEIVING STREAM SHALL BE PRESERVED, TO THE MAXIMUM EXTENT PRACTICABLE, DURING CONSTRUCTION ACTIVITIES AT THE SITE. BUFFER ZONES ARE NOT SEDIMENT CONTROL MEASURES AND SHOULD NOT BE RELIED UPON AS PRIMARY SEDIMENT CONTROL MEASURES. THE RIPARIAN BUFFER ZONE SHALL BE ESTABLISHED BETWEEN THE TOP OF THE STREAM BANK AND THE DISTURBED CONSTRUCTION AREA. 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. EVERY ATTEMPT SHALL BE MADE FOR CONSTRUCTION ACTIVITIES NOT TO TAKE PLACE WITHIN THE BUFFER ZONES. BEST MANAGEMENT PRACTICES (BMPS) PROVIDING EQUIVALENT PROTECTION AS THE NATURAL RIPARIAN ZONE MAY 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 CONSTRUCTION GENERAL PERMIT. WHERE ISSUED, ARAP/401 REQUIREMENTS WILL PREVAIL IF IN CONFLICT WITH THESE BUFFER ZONE REQUIREMENTS.

KNOWN EXCEPTIONAL TENNESSEE WATERS

(3) FOR PROJECTS THAT DISCHARGE INTO KNOWN EXCEPTIONAL TENNESSEE WATERS OR WATERS IMPAIRED BY SILTATION, AN OUTFALL IN A DRAINAGE AREA OF 5 ACRES OR MORE, 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 FINAL STABILIZATION OF THE SITE. 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, UNLESS PREVIOUSLY EXEMPT IN THE NPDES CONSTRUCTION GENERAL PERMIT.

(4) FOR PROJECTS THAT DISCHARGE INTO KNOWN EXCEPTIONAL TENNESSEE WATERS OR WATERS IMPAIRED BY SILTATION, A 60 FOOT NATURAL RIPARIAN BUFFER ZONE ADJACENT TO AND ON BOTH SIDES OF THE RECEIVING STREAM WITH THIS DESIGNATION SHALL BE PRESERVED, TO THE MAXIMUM EXTENT PRACTICABLE, DURING CONSTRUCTION ACTIVITIES AT THE SITE. BUFFER ZONES ARE NOT SEDIMENT CONTROL MEASURES AND SHOULD NOT BE RELIED UPON AS PRIMARY SEDIMENT CONTROL MEASURES. THE RIPARIAN BUFFER ZONE SHALL BE ESTABLISHED BETWEEN THE TOP OF THE STREAM BANK AND THE DISTURBED CONSTRUCTION AREA. 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. EVERY ATTEMPT SHALL BE MADE FOR CONSTRUCTION ACTIVITIES NOT TO TAKE PLACE WITHIN THE BUFFER ZONES. BEST MANAGEMENT PRACTICES (BMPS) PROVIDING EQUIVALENT PROTECTION AS THE NATURAL RIPARIAN ZONE MAY 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 CONSTRUCTION GENERAL PERMIT. WHERE ISSUED, ARAP/401 REQUIREMENTS WILL PREVAIL IF IN CONFLICT WITH THESE BUFFER ZONE REQUIREMENTS.

NPDES

(5) 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 BASIC EPSC DEVICES ON THE EPSC PLAN CONTAINED IN THE APPROVED SWPPP.

(6) THE EPSC MEASURES AND/OR PLAN SHALL BE MODIFIED AS NECESSARY SO THAT THEY ARE EFFECTIVE AT ALL TIMES THROUGHOUT THE COURSE OF THE PROJECT.

(7) THE ACCEPTED EPSC PLAN SHALL REQUIRE THAT EPSC MEASURES BE IN PLACE BEFORE CLEARING, GRUBBING, EXCAVATION, GRADING, CUTTING OR FILLING OCCURS, EXCEPT AS SUCH WORK MAY BE NECESSARY TO INSTALL EPSC MEASURES, INCLUDING WITHOUT LIMITATION AS FOLLOWS:

A. INITIAL CLEARING AND GRUBBING SHALL BE LIMITED TO THAT NECESSARY FOR THE INSTALLATION OF APPLICABLE EPSC MEASURES IN ACCORDANCE WITH THE ACCEPTED EPSC PLAN INCORPORATED INTO THE SWPPP.

B. NO OTHER CLEARING AND GRUBBING OPERATIONS SHALL BE STARTED BEFORE APPLICABLE EPSC MEASURES ARE IN PLACE IN ACCORDANCE WITH THE ACCEPTED EPSC PLAN INCORPORATED INTO THE SWPPP.

C. NO CULVERT OR BRIDGE CONSTRUCTION SHALL BE STARTED BEFORE APPLICABLE EPSC MEASURES ARE IN PLACE IN ACCORDANCE WITH THE ACCEPTED EPSC PLAN INCORPORATED INTO THE SWPPP.

D. NO GRADING, EXCAVATION, CUTTING, FILLING, OR OTHER EARTHWORK SHALL BE STARTED BEFORE EPSC MEASURES ARE IN PLACE IN ACCORDANCE WITH THE ACCEPTED EPSC PLAN INCORPORATED INTO THE SWPPP.

(8) PERMANENT EPSC MEASURES SHALL BE INITIATED WITHIN 14 CALENDAR DAYS AFTER FINAL GRADING OF ANY SEQUENCE OR PHASE. TEMPORARY OR PERMANENT STABILIZATION SHALL BE INITIATED WITHIN 14 CALENDAR DAYS AFTER FINAL GRADING OR WHEN CONSTRUCTION ACTIVITIES ON A PORTION OF THE SITE ARE TEMPORARILY CEASED AND EARTH DISTURBING ACTIVITIES WILL NOT RESUME UNTIL AFTER 14 CALENDAR DAYS. PERMANENT STABILIZATION WITH PERENNIAL VEGETATION OR OTHER PERMANENTLY STABLE NON-ERODING SURFACE SHALL REPLACE ANY TEMPORARY MEASURES AS SOON AS PRACTICABLE. UNPACKED GRAVEL CONTAINING FINES (SILT AND CLAY SIZED PARTICLES) OR CRUSHER-RUN WILL NOT BE CONSIDERED A NON-ERODIBLE SURFACE.

(9) STEEP SLOPES (A NATURAL OR CREATED SLOPE OF 35% GRADE (2.8H:1V) OR GREATER REGARDLESS OF HEIGHT) SHALL BE TEMPORARILY STABILIZED NO LATER THAN 7 CALENDAR DAYS AFTER CONSTRUCTION ACTIVITY ON THE SLOPE HAS TEMPORARILY OR PERMANENTLY CEASED.

(10) FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION SUPPORT ACTIVITIES; TDOT PROJECTS ARE COVERED UNDER THE "WASTE AND BORROW" MANUAL PER THE SSWMP.

(11) 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.

UTILITY RELOCATION

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

(13) SILT FENCE 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

(14) UTILITY CROSSINGS FOR PERENNIAL STREAMS SHALL BE CONSTRUCTED IN ACCORDANCE WITH TDOT STANDARDS AND NO WORK SHALL BE CONDUCTED IN FLOWING WATERS. TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION (TDEC) REGULATIONS APPLY TO UTILITIES IN THIS PROJECT IN REGARD TO EROSION PREVENTION AND SEDIMENT CONTROL (EPSC). THE STATE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF THE STORM WATER POLLUTION PREVENTION PLANS (SWPPP).

(15) IT IS THE RESPONSIBILITY OF THE STATE UTILITY CONTRACTOR INSTALLER TO PROTECT FROM EROSION 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.

(16) 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.

(17) 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.

(18) 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.

(19) FOR THE INSTALLATION OF UNDERGROUND UTILITIES OUTSIDE OF THE TDOT RIGHT-OF-WAY, EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) 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 FINAL VEGETATIVE COVER.

(20) THE UTILITY CONTRACTOR SHALL RESTORE ALL AFFECTED WET WEATHER CONVEYANCES TO THE EXISTING TOPOGRAPHIC CONDITIONS (AS APPROVED BY THE TDOT PROJECT ENGINEER).

(21) THE UTILITY CONTRACTOR WILL PROVIDE APPROPRIATE EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) MEASURES TO REPLACE IN-PLACE EPSC MEASURES REMOVED TO FACILITATE THE INSTALLATION OF UTILITIES. REPLACEMENT OF EPSC MEASURES WILL BE COORDINATED WITH THE TDOT PROJECT ENGINEER BEFORE COMMENCING WORK.

LITTER, DEBRIS, WASTE, PETROLEUM

(22) THE CONTRACTOR SHALL MAINTAIN A COMPLETE AND COMPREHENSIVE EROSION PREVENTION AND SEDIMENT CONTROL PLAN TO PREVENT ROADWAY AND/OR CONSTRUCTION SEDIMENT OR DEBRIS AND ANY PETROLEUM BASED PRODUCTS OR CHLORINATED SOLVENTS, PAINTS OR COATINGS ETC. FROM FALLING ONTO THE RAILROAD'S RIGHTS-OF-WAY AND/OR FROM ENTERING THE DRAINAGE DITCHES OR DRAINAGE STRUCTURES OF THE RAILROAD, AND ANY SEDIMENT OR DEBRIS OR PETROLEUM BASED PRODUCTS OR CHLORINATED SOLVENTS, ETC. THAT DO ENTER SUCH DRAINAGE AREAS OF THE RAILROAD'S RIGHTS-OF-WAY ARE TO BE REMOVED IN ACCORDANCE WITH RULES SET FORTH BY NORFOLK SOUTHERN RAILROAD AND AT THE CONTRACTOR'S EXPENSE.

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DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL NOTES

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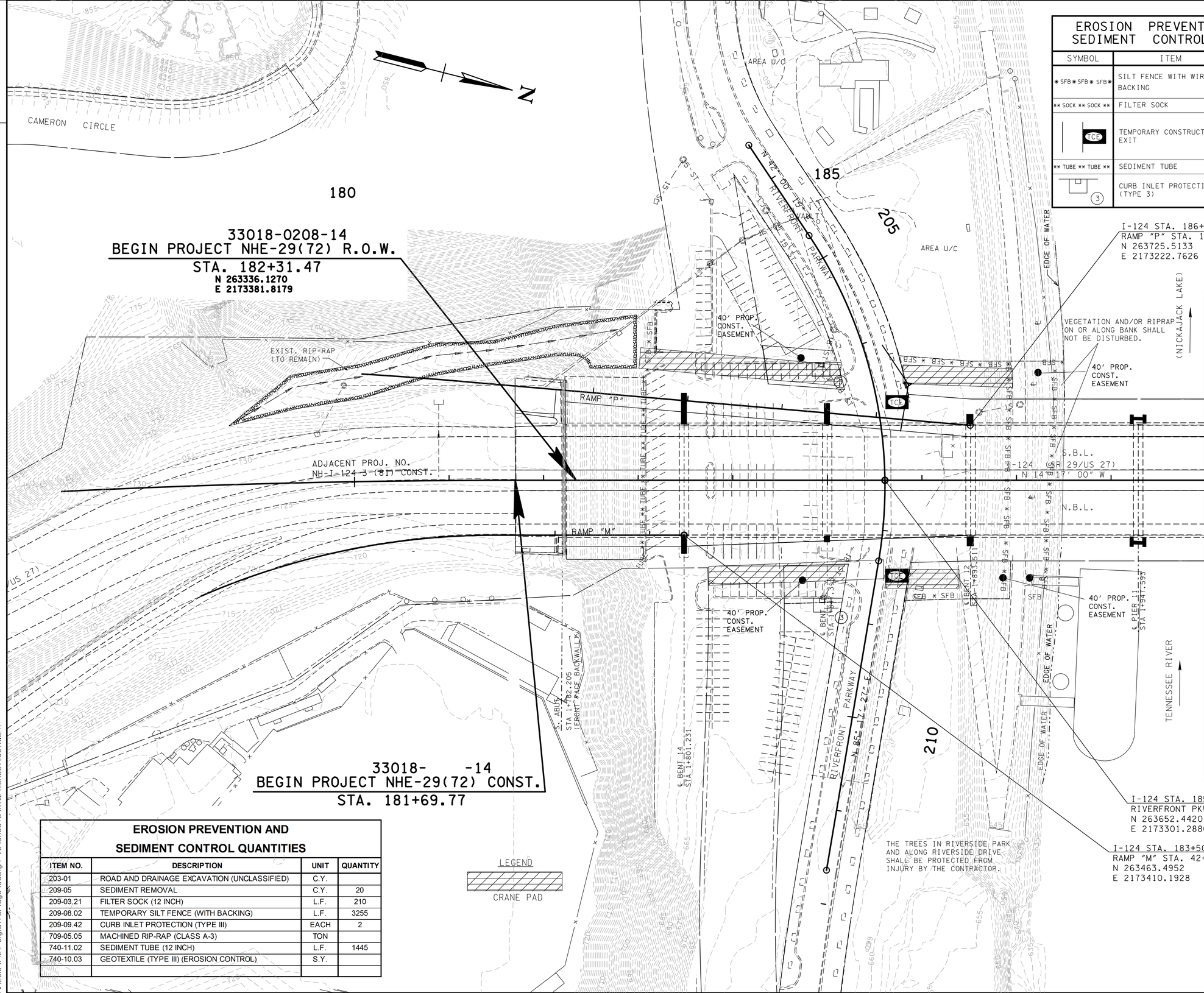
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2011	NHE-29(72)	7A
CONST.	2014	NHE-29(72)	7A

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
* SFB * SFB * SFB *	SILT FENCE WITH WIRE BACKING	EC-STR-3C
** SOCK ** SOCK **	FILTER SOCK	EC-STR-8
TCE	TEMPORARY CONSTRUCTION EXIT	EC-STR-25
** TUBE ** TUBE **	SEDIMENT TUBE	EC-STR-37
3	CURB INLET PROTECTION (TYPE 3)	EC-STR-39A



EROSION PREVENTION AND SEDIMENT CONTROL QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	QUANTITY
203-01	ROAD AND DRAINAGE EXCAVATION (UNCLASSIFIED)	C.Y.	
209-05	SEDIMENT REMOVAL	C.Y.	20
209-03.21	FILTER SOCK (12 INCH)	L.F.	210
209-08.02	TEMPORARY SILT FENCE (WITH BACKING)	L.F.	3255
209-09.42	CURB INLET PROTECTION (TYPE III)	EACH	2
709-05.05	MACHINED RIP-RAP (CLASS A-3)	TON	
740-11.02	SEDIMENT TUBE (12 INCH)	L.F.	1445
740-10.03	GEOTEXTILE (TYPE III) (EROSION CONTROL)	S.Y.	

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA.180+00.00 TO STA.189+00

SCALE: 1"= 50'

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
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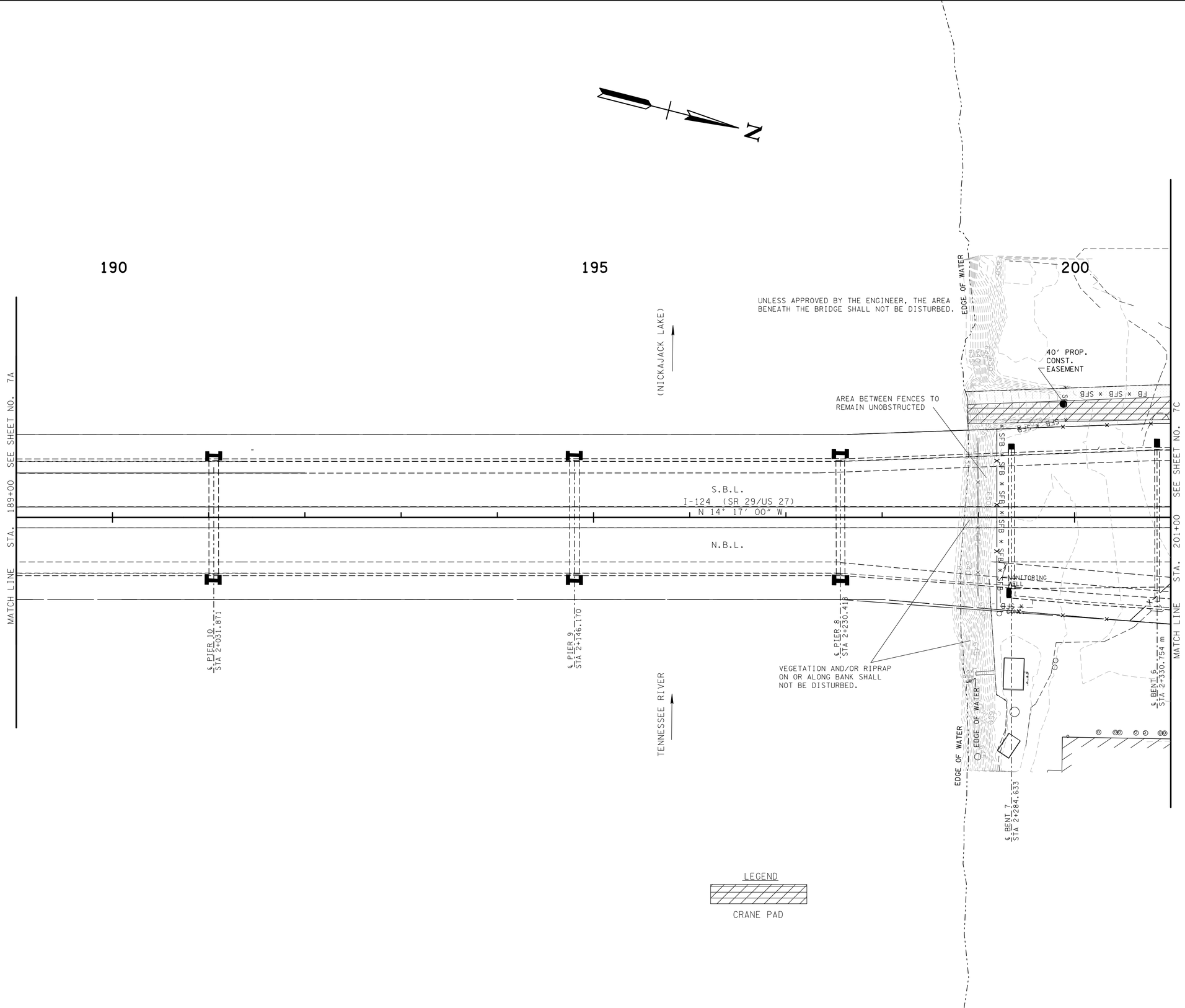
CONST.	2014	NHE-29(72)	7B



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 189+00 TO STA. 201+00

SCALE: 1"= 50'

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
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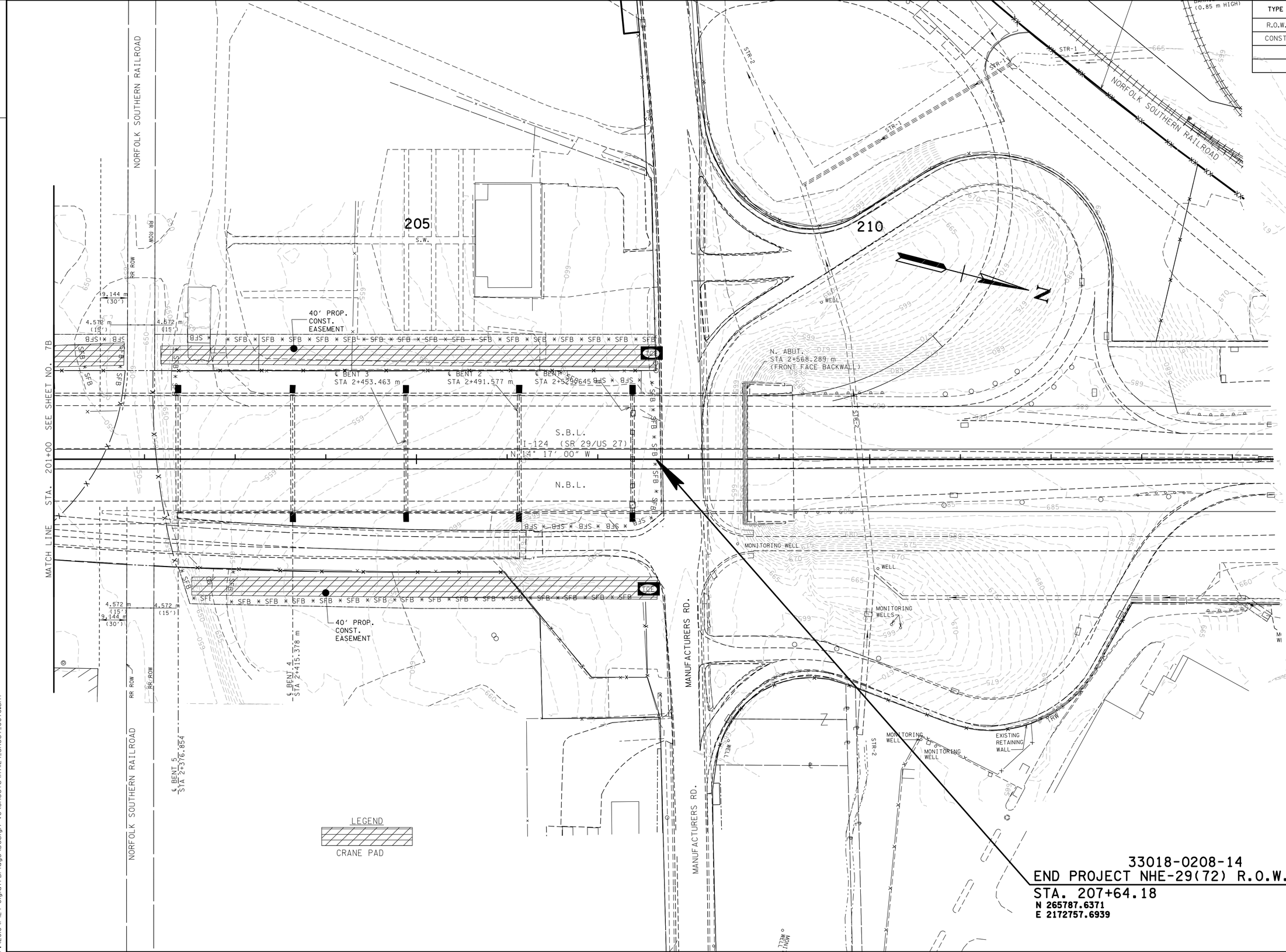
CONST.	2014	NHE-29(72)	7C



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 201+00 TO STA. 207+64.18

SCALE: 1"= 50'

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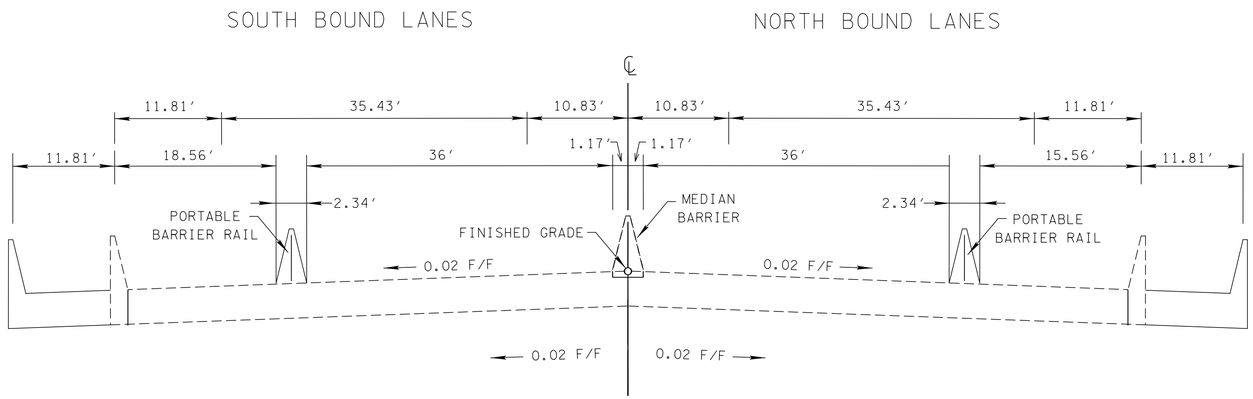
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NHE-29(72)	8



TANGENT SECTION
(BASED ON STD. DWG. RD01-TS-5B)

TRAFFIC CONTROL QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	QUANTITY	ITEM NO. 712-06 (S.F.)	SIZE	M.U.T.C.D. NO.	REMARKS
705-08.11	PORTABLE IMPACT ATTENUATOR HCHRP350 TL-3	EACH	3				
707-08.11	HIGH-VISIBILITY CONSTRUCTION FENCE	L.F.	1115				
712-01	TRAFFIC CONTROL	L.S.	1				
712-02.02	INTERCONNECTED PORTABLE BARRIER RAIL	LF.	6182				
712-04.01	FLEXIBLE DRUMS (CHANNELIZING)	EACH	20				
712-05.01	WARNING LIGHTS (TYPE A)	EACH	20				
	YIELD HERE TO PEDESTRIANS		8	72	36" X 36"	R1-5	
	NO PARKING ANY TIME		2	3	12" X 18"	R7-1L	
	SIDEWALK CLOSED CROSS HERE		2	4	24" X 12"	R9-11AL	
	SIDEWALK CLOSED CROSS HERE		2	4	24" X 12"	R9-11AR	
	REVERSE CURVE (3 LANES)		2	32	48' X 48"	W1-4CR	
	ROAD WORK 1 MILE		4	64	48" X 48"	W20-1A	
	ROAD WORK 1/2 MILE		4	64	48" X 48"	W20-1B	
	ROAD WORK 1000 FT		4	64	48" X 48"	W20-1C	
	ROAD WORK 500 FT		2	32	48" X 48"	W20-1D	
	ROAD WORK 500 FT		7	63	36" X 36"	W20-1E	
	END ROAD WORK		9	40.5	36" X 18"	G20-2A	
712-06.01	VERTICAL PANELS	S.F.					
712-07.03	TEMPORARY BARRICADES (TYPE III)	LF.	40				
712-08.03	ARROW BOARD (TYPE C)	EACH	2				
713-16.01	CHANGEABLE MESSAGE SIGN UNIT	EACH	2				
716-05.01	PAINTED PAVEMENT MARKING (4" LINE)	LM	0.69				
716-05.02	PAINTED PAVEMENT MARKING (8" BARRIER LINE)	L.F.	11398				
716-05.22	PAINTED PAVEMENT MARKING (LONGITUDINAL CROSS-WALK)	L.F.					
TOTAL				**442.5**			

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TRAFFIC CONTROL PLAN

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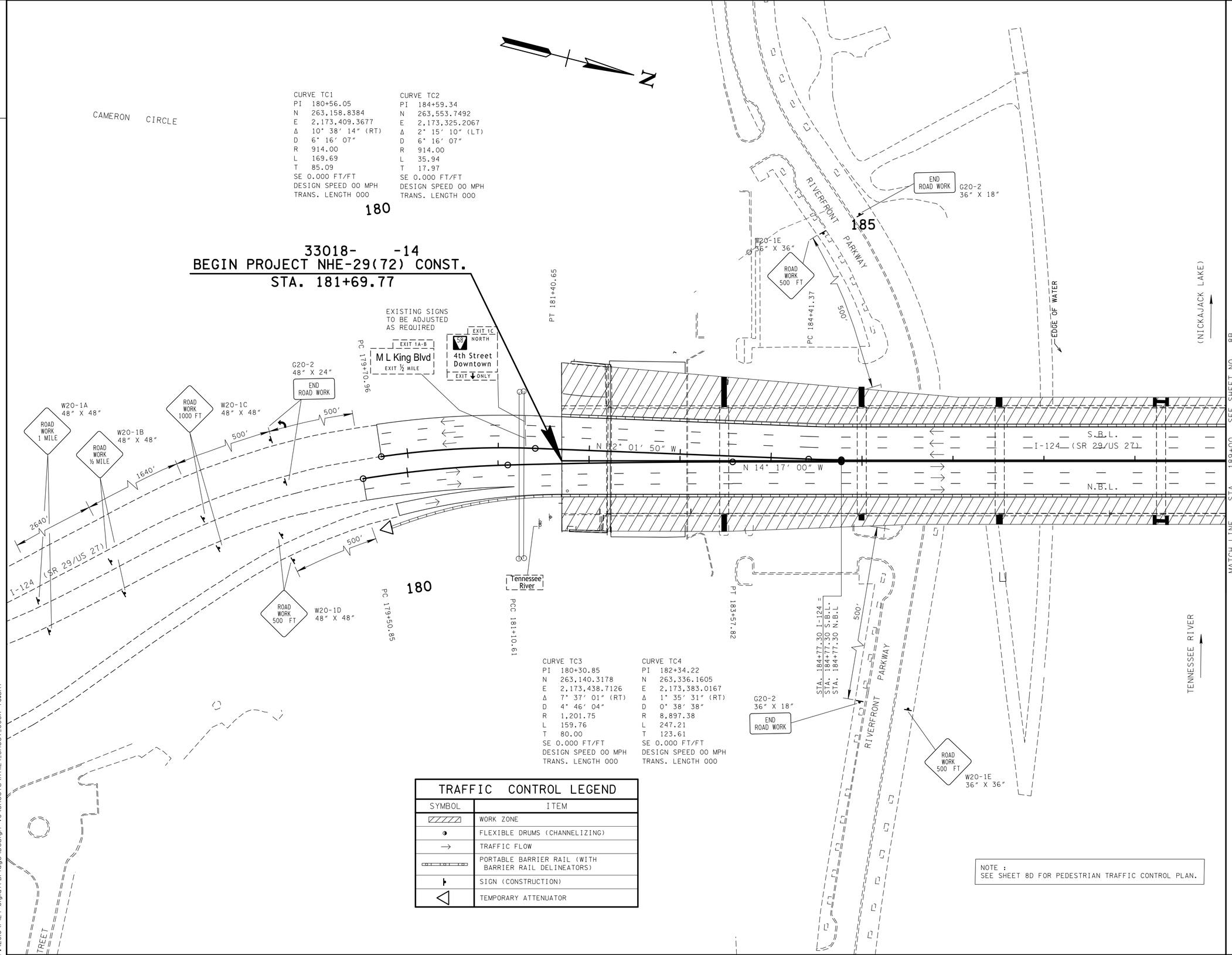
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NHE-29(72)	8A



CURVE TC1
PI 180+56.05
N 263,158.8384
E 2,173,409.3677
Δ 10° 38′ 14″ (RT)
D 6° 16′ 07″
R 914.00
L 169.69
T 85.09
SE 0.000 FT/FT
DESIGN SPEED 00 MPH
TRANS. LENGTH 000

CURVE TC2
PI 184+59.34
N 263,553.7492
E 2,173,325.2067
Δ 2° 15′ 10″ (LT)
D 6° 16′ 07″
R 914.00
L 35.94
T 17.97
SE 0.000 FT/FT
DESIGN SPEED 00 MPH
TRANS. LENGTH 000

CURVE TC3
PI 180+30.85
N 263,140.3178
E 2,173,438.7126
Δ 7° 37′ 01″ (RT)
D 4° 46′ 04″
R 1,201.75
L 159.76
T 80.00
SE 0.000 FT/FT
DESIGN SPEED 00 MPH
TRANS. LENGTH 000

CURVE TC4
PI 182+34.22
N 263,336.1605
E 2,173,383.0167
Δ 1° 35′ 31″ (RT)
D 0° 38′ 38″
R 8,897.38
L 247.21
T 123.61
SE 0.000 FT/FT
DESIGN SPEED 00 MPH
TRANS. LENGTH 000

TRAFFIC CONTROL LEGEND

SYMBOL	ITEM
	WORK ZONE
	FLEXIBLE DRUMS (CHANNELIZING)
→	TRAFFIC FLOW
	PORTABLE BARRIER RAIL (WITH BARRIER RAIL DELINEATORS)
	SIGN (CONSTRUCTION)
	TEMPORARY ATTENUATOR

NOTE :
SEE SHEET 8D FOR PEDESTRIAN TRAFFIC CONTROL PLAN.

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TRAFFIC CONTROL PLAN

STA. 180+00 TO STA. 189+00

SCALE: 1"= 50'

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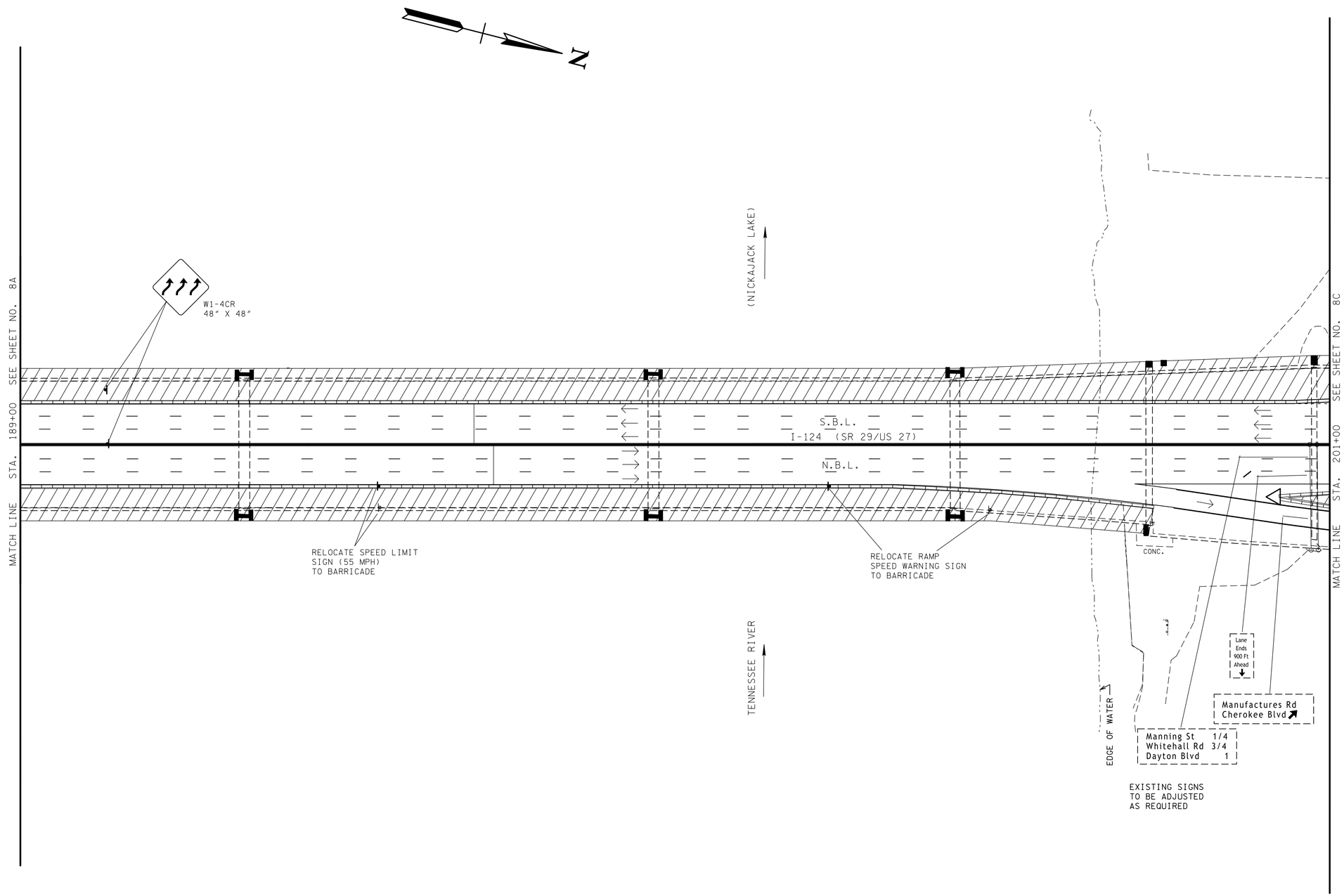
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NHE-29(72)	8B



P.S.& E.
REVIEW

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TRAFFIC CONTROL PLAN

STA. 189+00 TO STA. 201+00

SCALE: 1"= 50'

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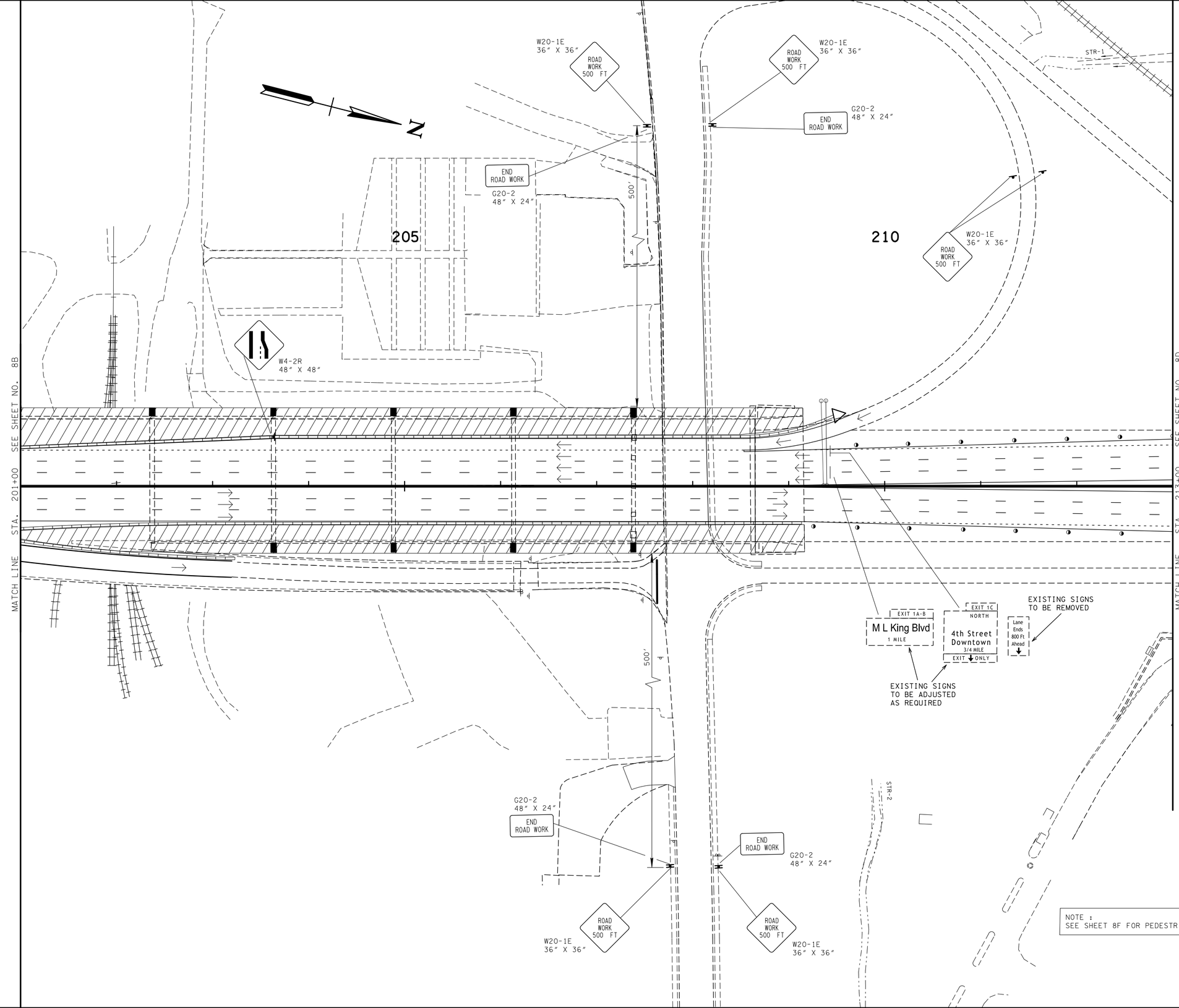
TENNESSEE D.O.T.	DESIGN DIVISION	FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NHE-29(72)	8C



NOTE :
SEE SHEET 8F FOR PEDESTRIAN TRAFFIC CONTROL PLAN.

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TRAFFIC CONTROL PLAN

STA. 201+00 TO STA. 213+00

SCALE: 1"= 50'

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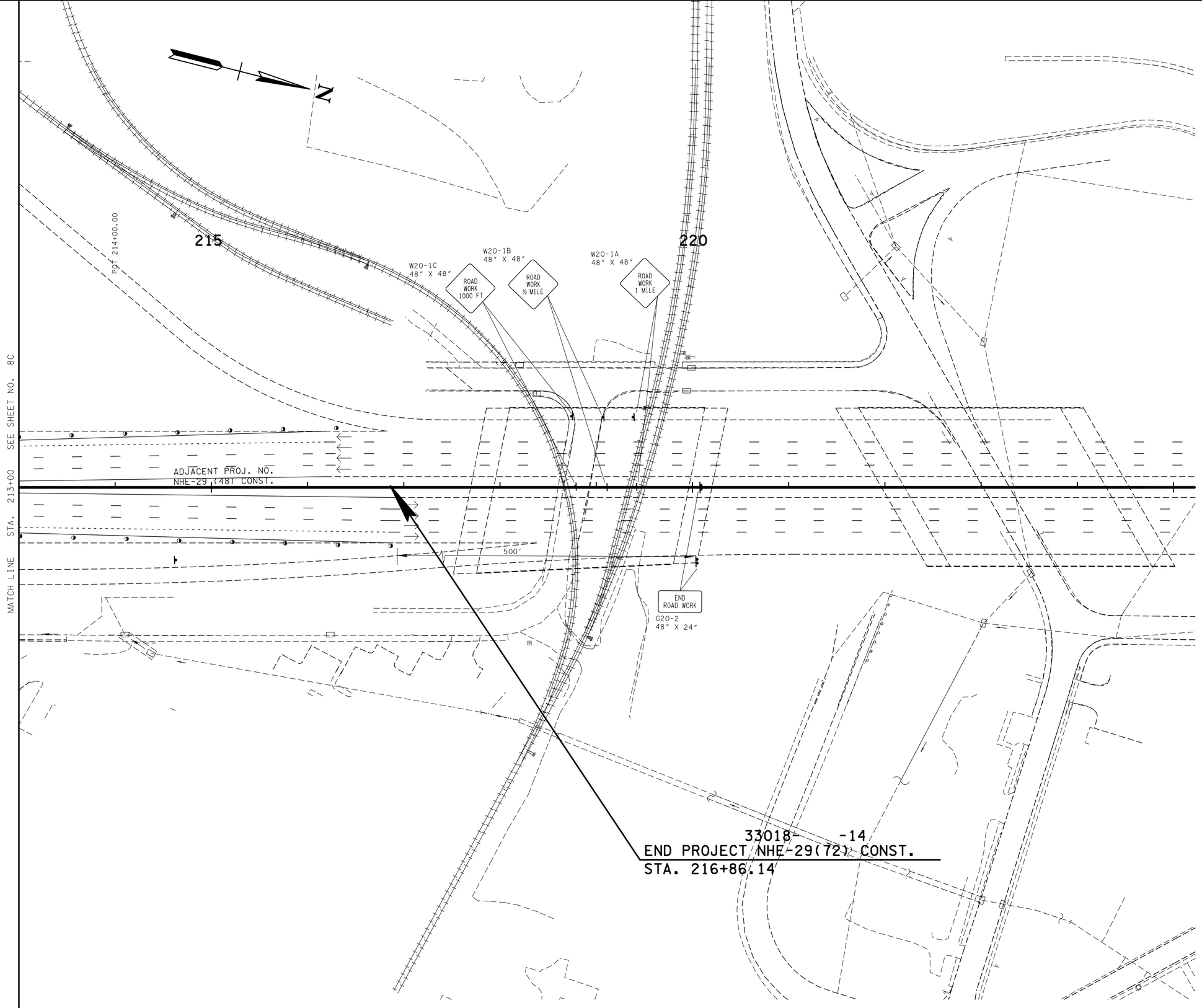
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NHE-29(72)	8D



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TRAFFIC CONTROL PLAN

STA. 213+00 TO E.O.P.

SCALE: 1"= 50'

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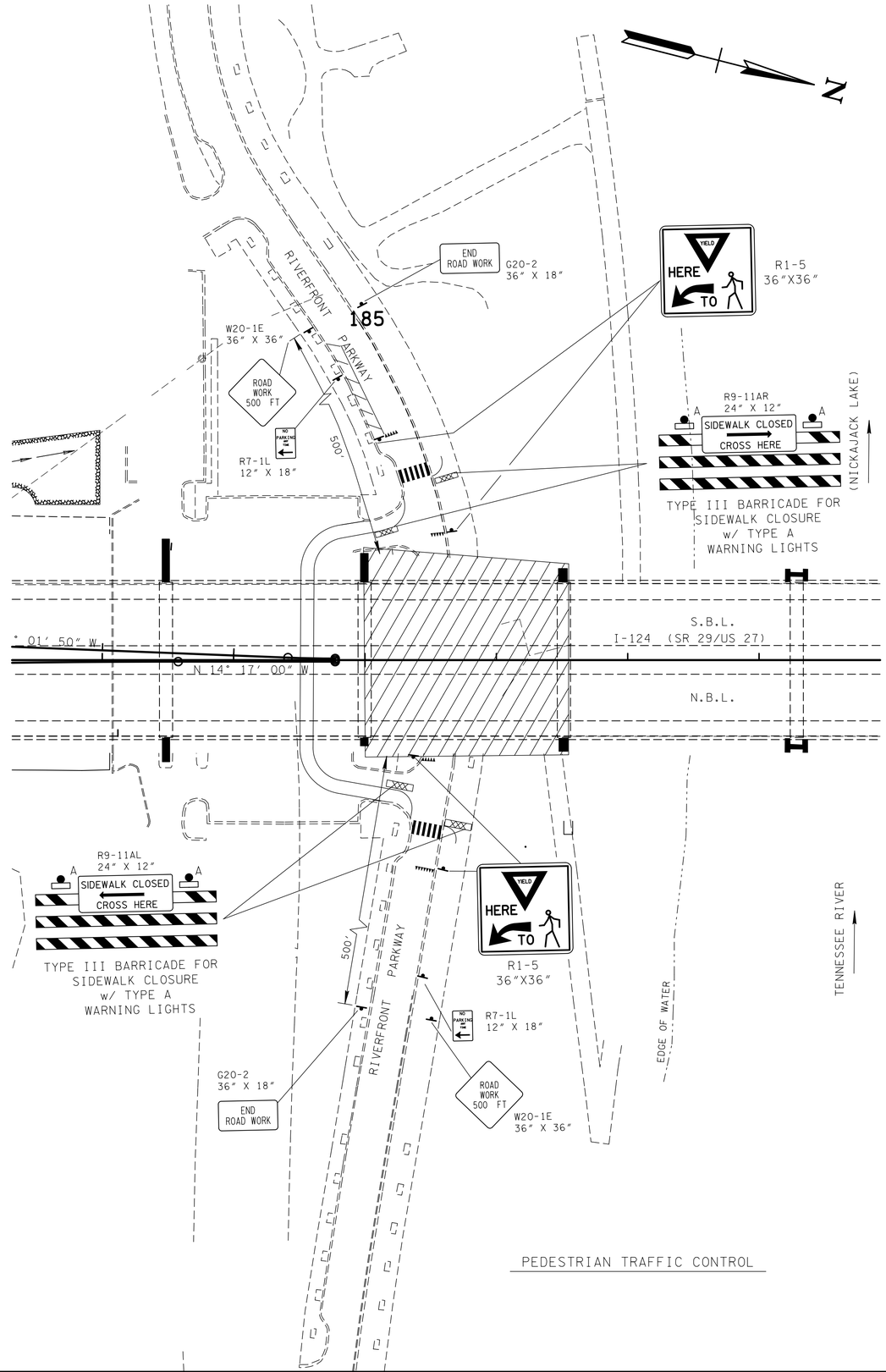
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NHE-29(72)	8E



PEDESTRIAN TRAFFIC CONTROL

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TRAFFIC CONTROL PLAN

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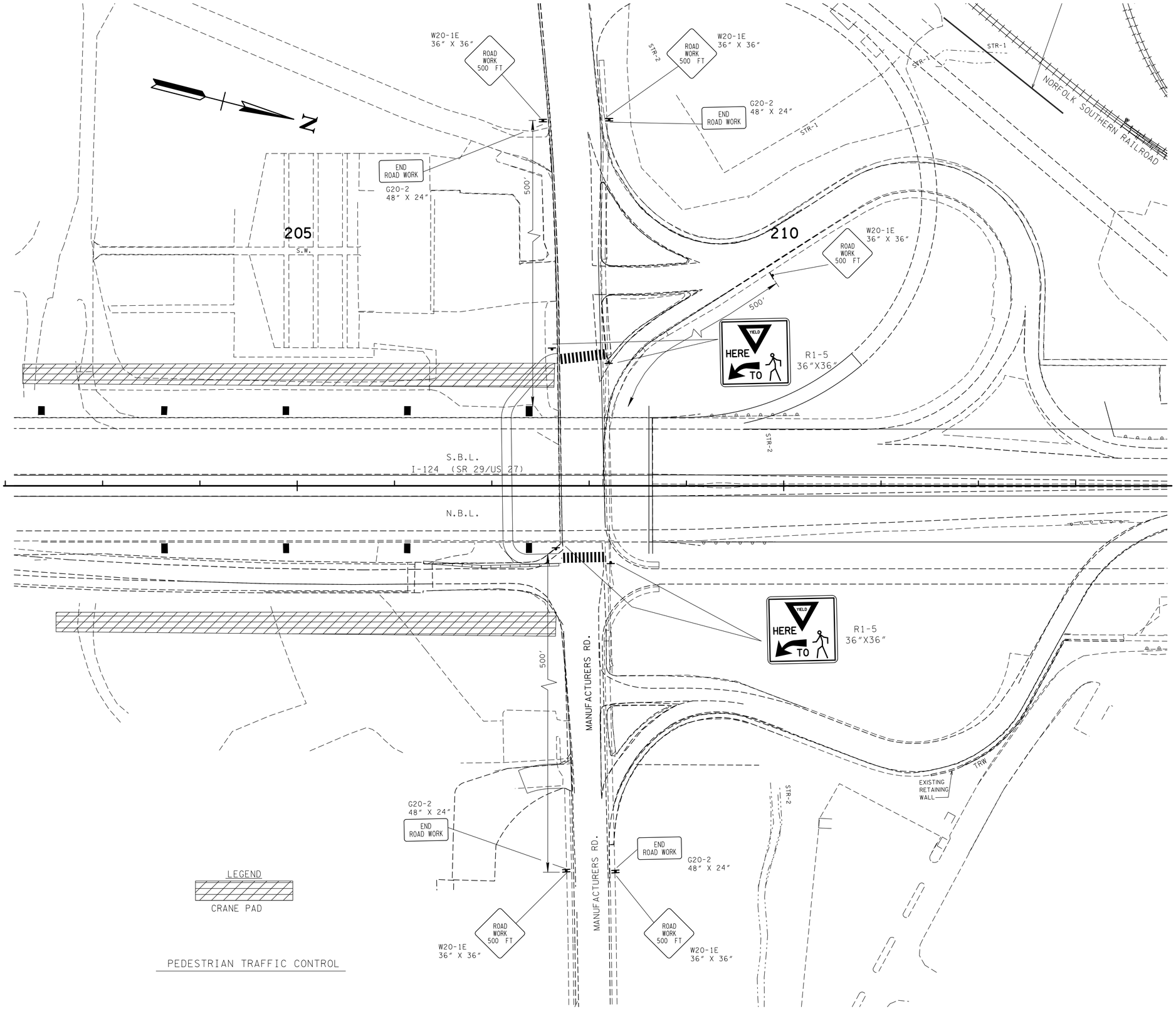
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NHE-29(72)	8F



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TRAFFIC CONTROL PLAN

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ALL SIGNS SHOWN WITH DESIGNATIONS ARE TO BE FABRICATED AS DETAILED IN THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (CURRENT EDITION)

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NHE-29(72)	9

SIGN NO	LEGEND	SHEET NO	SIZE				COPY				SHIELD	ARROW	SIGN FACE			STEEL DESIGN (BREAK-AWAY)					MINIMUM VERTICAL CLEARANCE	REMARKS
			LENGTH	HEIGHT	RADIUS	BORDER WIDTH	CAPITAL	LOWER CASE	NUMERAL	SERIES			COPY	BACKGROUND	MATERIAL	SUPPORT TYPE	SUPPORT LENGTH	FOOTING	CONC. CU. YD.	REIN STEEL LBS.		
1 2	SPEED LIMIT 45 R2-1(45)		48"	60"									BLACK	WHITE (REF.)	0.100" SHEET ALUMINUM							
3 8	W4-2R		48"	48"									BLACK	YELLOW (REF.)	0.100" SHEET ALUMINUM							
5 4	EXIT 1A EAST M L King Blvd Downtown ¾ MILE												WHITE (REF.) WHITE (REF.)	GREEN (REF.) GREEN (REF.)								PROPOSED OVERHEAD STRUCTURE
7 6	EXIT 1C 58 NORTH 4th Street 6th Street WEST M L King Blvd. Downtown ↗ EXIT ONLY ↗										58 36"X36"	TYPE "G" @ 45°	WHITE (REF.) WHITE (REF.) BLACK	GREEN (REF.) GREEN (REF.) YELLOW (REF.)								PROPOSED OVERHEAD STRUCTURE
9	Manning St ¼ Whitehall Rd ¾ Dayton Blvd 1																					EXISTING OVERHEAD STRUCTURE
10	Manufactures Rd Cherokee Blvd ↗																					EXISTING OVERHEAD STRUCTURE
10	LANE ENDS MERGE LEFT W9-2		36"	36"									BLACK	YELLOW (REF.)	0.080" SHEET ALUMINUM							
12	EAST M L King Blvd 1 MILE												WHITE (REF.)	GREEN (REF.)								PROPOSED OVERHEAD STRUCTURE
14 13	EXIT 1C 58 NORTH 4th Street 6th Street WEST M L King Blvd. Downtown ¾ MILE EXIT ↓ ONLY										58 36"X36"	TYPE "H"	WHITE (REF.) WHITE (REF.) BLACK	GREEN (REF.) GREEN (REF.) YELLOW (REF.)								PROPOSED OVERHEAD STRUCTURE

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DEPARTMENT OF TRANSPORTATION

SIGN SCHEDULE

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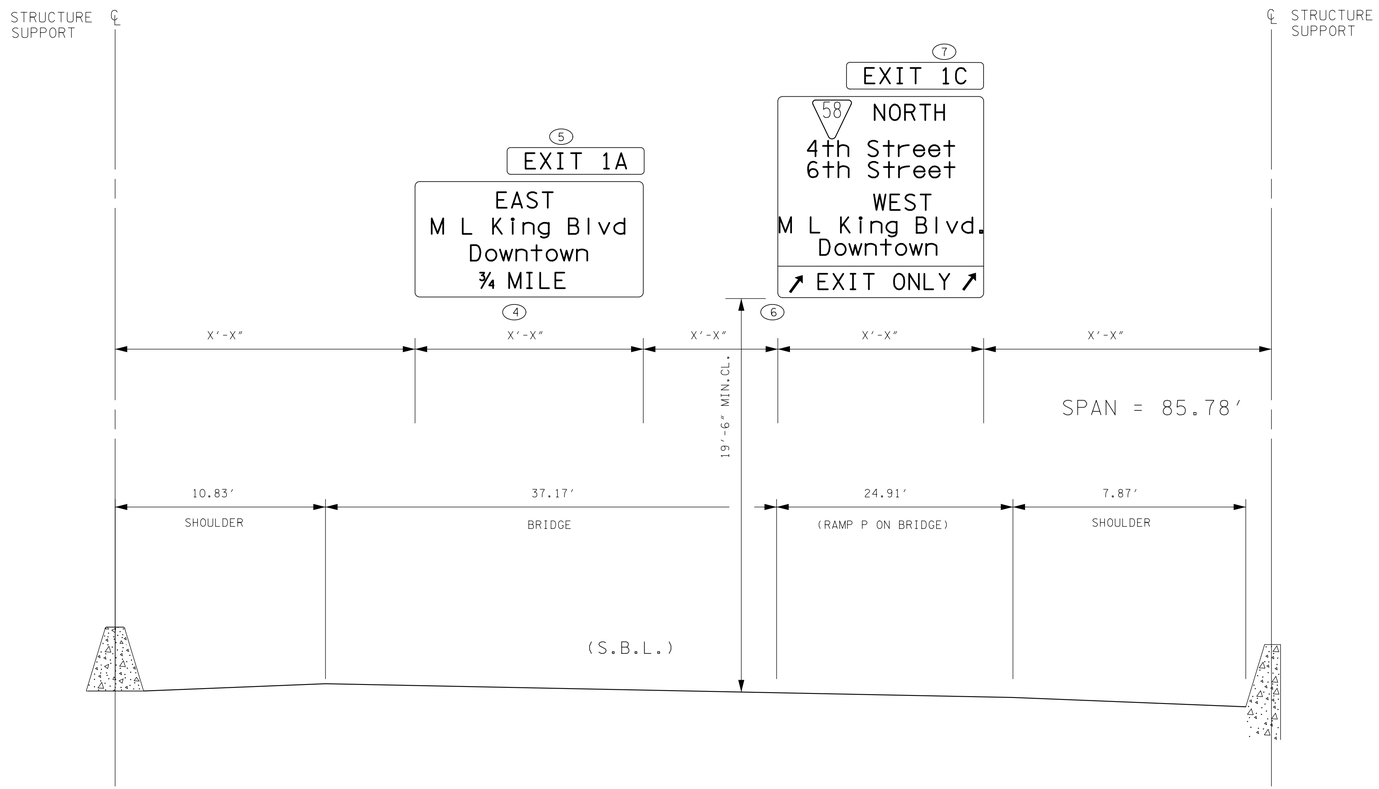
PROJECT NO.	YEAR	SHEET NO.
NHE-29(72)	2014	10

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION



OVERHEAD STRUCTURE

SIGN NOS.4,5,6 AND 7
STA. 184+79± I-124

DESIGN DATA

SIGN DESIGN AREA = sq.ft.
WIND VELOCITY=80mph
SOIL DATA:N=12,Pp=1.89Ksf & K=94.3Kcf

NOTES:

1. PRIOR TO ORDERING ANY MATERIAL THE CONTRACTOR SHALL FIELD MEASURE THIS SIGN STRUCTURE TO VERIFY SPAN LENGTH.
2. THE CONTRACTOR SHALL REFER TO "TENNESSEE DEPARTMENT OF TRANSPORATION STANDARD BRIDGE DRAWING, STD-8-4" FOR DETAILS.
3. THE COST OF THE FOOTINGS ARE TO BE INCLUDED IN THE BID ITEM FOR THIS SIGN STRUCTURE.
4. OVERHEAD SIGN SHEETING TO BE TYPE III PRISMATIC OR BETTER.

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HAMILTON CO.
I-124 (U.S.27, S.R. 29)
SIGN NOS.4,5,6 AND 7

CORRECT _____
ENGINEER OF STRUCTURES

APPROVED _____
DIRECTOR OF HIGHWAYS

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2013	NHE-29(72)	12

ESTIMATED LIGHTING QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY
(1)	714-03	JACKED OR BORED CONDUIT	L.F.	85
	714-03.01	DIRECT BURIAL CONDUIT (2" PVC, SCHEDULE 40)	L.F.	565
(2)	714-04.02	CONDUIT (STRUCTURES - 2" RGS)	L.F.	35
	714-05.04	PULL BOXES (TYPE C)	EACH	4
(2)	714-05.05	PULL BOXES (6" x 6")	EACH	3
	714-06.06	CABLE (1/C # 4 AWG)	L.F.	16880
	714-06.08	CABLE (# 4 COPPER SOFT DRAWN BARE) (GROUND)	L.F.	580
(3)	714-06.09	CABLE (# 4 SOLID COPPER SOFT DRAWN) (GROUND)	L.F.	5150
(4)	714-08.09	LIGHT STANDARDS (35' MH) (BRIDGE MOUNTED)	EACH	23
	714-08.32	REMOVAL OF LIGHT STANDARD & FOUNDATION	EACH	34
(5)	714-09.04	LUMINAIRES (400 WATT)	EACH	23
(6)	714-12.01	CONTROL CENTER (NO. 1)	LS	1
	714-12.09	CONTROL CENTER (REMOVE)	LS	1
(7)	714-25	ELECTRICAL CONNECTION	EACH	1

PAYITEM FOOTNOTES

(1) SHALL BE 1-2" C (PVC), SCHEDULE 80 EQUIVALENT.

(2) SHALL BE STRAPPED TO BRIDGE. INCLUDES ALL APPURTENANCES REQUIRED FOR THE COMPLETE INSTALLATION.

(3) INCLUDED FOR GROUNDING WITHIN STRUCTURES.

(4) SHALL BE ROUND TAPERED ALUMINUM POLE. INCLUDES THE COST OF THE TENON ARM.

(5) OFFSET LUMINAIRES SHALL BE OFF ROADWAY LIGHT ORL SERIES, 400W HPS, COOPER LIGHTING CATALOGUE NUMBER ORL40SW8XX-B, OR EQUIVALENT, BALLASTED FOR 240V OPERATION AND 35 FT MOUNTING HEIGHT. BASED ON COOPER PHOTOMETRIC DATA FILE, ORL4SXX.IES; TOTAL LUMENS = 50,000.

(6) INCLUDES THE COST OF THE 100 AMP DISCONNECT.

(7) THE CONTRACTOR SHALL CONTACT THE LOCAL UTILITY TO OBTAIN THE ESTIMATE FOR ANY CHARGES BY THE UTILITY FOR PROVIDING ELECTRICAL SERVICE TO THE CONTROL CENTER(S). THESE CHARGES SHALL BE INCLUDED IN THE BID FOR THIS ITEM. ALSO, INCLUDES THE COST OF THE STEEL CONDUIT RISER ASSEMBLY AND PROPOSED POWER CABLE OVERHEAD AS REQUIRED.

GENERAL NOTES

LIGHTING

(1) INSTALLATION AND MATERIALS SHALL COMPLY WITH SECTIONS 714 AND 917 OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION DATED MARCH 1, 2006 AND WITH THE LATEST REVISIONS TO THE NATIONAL ELECTRIC CODE, NFPA 70.

(2) ALL INCIDENTAL EQUIPMENT AND MATERIAL REQUIRED FOR THE SUCCESSFUL EXECUTION OF THIS WORK SHALL BE FURNISHED IN 714 ITEMS WHETHER SPECIFICALLY NOTED OR NOT.

(3) LIGHT STANDARDS SHALL BE ROUND TAPERED POLES. LENGTH SHALL BE DETERMINED BY REQUIRED MOUNTING HEIGHT.

(4) STANDARDS SHALL BE DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF THE LATEST EDITION OF THE STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORT FOR HIGHWAY SIGNS, LUMINARIES AND TRAFFIC SIGNALS PUBLISHED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS.

SPECIAL NOTES

LIGHTING

(5) THE GROUND WIRE SHALL BE RUN INSIDE CONDUIT WITHIN STRUCTURES, SOLID COPPER, AND COLORED GREEN.

(6) OFFSET LUMINAIRES SHALL BE OFF ROADWAY LIGHT ORL SERIES, 400W HPS, COOPER LIGHTING CATALOGUE NUMBER ORL40SW8XX-B, 50,000 LUMENS, BALLASTED FOR 240V OPERATION WITH 350 TILT AND 35 FT. MOUNTING HEIGHT.

(7) WHERE EXISTING ROADWAY LIGHT POLES ARE TO BE REMOVED, THE REMAINING LIGHTING CIRCUITRY SHALL BE REWIRED AND RECONNECTED.

(8) THE CONTRACTOR SHALL USE THE MANUFACTURER'S RECOMMENDED GROUNDING ATTACHMENT CONNECTOR ON ALL EQUIPMENT.

(9) LIGHT POLES SHALL BE INSTALLED SO THAT THE HAND HOLE IS ORIENTED OPPOSITE THE FLOW OF TRAFFIC.

(10) LUMINAIRES ON THE SAME CIRCUIT SHALL BE WIRED ON ALTERNATING PHASES. THE CONTRACTOR IS TO ENSURE THAT LIGHTING LOADS ARE DISTRIBUTED AS EVENLY AS POSSIBLE ON EACH PHASE.

(11) PRIOR TO WORK ON ANY OF THE EXISTING CONTROL CENTERS, THE CONTRACTOR SHALL CONTACT MIKE JONES, CHATTANOOGA ELECTRIC POWER BOARD (EPB), (423) 648-3439.

(12) EXISTING CONDUIT TO BE ABANDONED SHALL BE PLUGGED ON BOTH ENDS.

(13) FOR JACK AND BORE, USE 1-2" CONDUIT (PVC), SCHEDULE 80 EQUIVALENT. CONDUIT CROSSING SHALL BE SEAMLESS.

(14) SALVAGEABLE EQUIPMENT SHALL BE STOCKPILED ON THE JOBSITE FOR PICK UP BY EPB. CONTRACTOR SHALL CONTACT MIKE JONES, (423) 648-3439, FOR PICKUP.

(15) ANY NON-SALVAGEABLE EQUIPMENT SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

(16) EPB WILL INSPECT ALL WORK BEFORE ACCEPTING THE LIGHTING SYSTEM, INCLUDING THE INSTALLATION OF BASES, HANDHOLES, CONDUIT SYSTEM, CONTROLLERS, AND ALL CIRCUIT MATERIALS, CONTACT MIKE JONES, (423) 648-3439.

(17) WHERE POSSIBLE, EXISTING LUMINAIRES SHALL REMAIN IN PLACE UNTIL THE PROPOSED LIGHTING SYSTEM IS OPERATIONAL.

(18) THE CONTRACTOR IS TO ENSURE THAT ANY EXISTING LUMINAIRE THAT REMAINS IN PLACE CONTINUES TO BE ENERGIZED.

(19) SOME UTILITIES MAY REQUIRE LOCATION BY HAND DIGGING PRIOR TO PROPOSED LIGHT POLE INSTALLATION.

(20) POLES MAY BE ADJUSTED 5'. ANY ADJUSTMENT GREATER THAN 5' SHALL BE APPROVED BY THE ENGINEER.

SPECIAL NOTES

LIGHTING SCOPE OF SERVICES

(21) THE PROPOSED LIGHTING DESIGN LIMITS INCLUDES OVERPASS LIGHTING ON I-124 FROM THE BEGINNING OF THE OLGIATI BRIDGE TO MANUFACTURERS RD.

(22) THERE ARE A TOTAL OF 34-LIGHT POLES WITH LUMINAIRES ON 15' ARMS' TO BE REMOVED FROM THE EXISTING BRIDGE.

(23) THERE ARE 23-PROPOSED OFFSET LUMINAIRES (400W HPS) TO BE INSTALLED ON THE BRIDGE (LP 1 THRU LP 8 AND LP 14 THRU LP 28). FOR BRIDGE LIGHTING DETAILS AND POLE LAYOUT, SEE SHEETS 12D AND 12E.

(24) THE ARE 5-EXISTING ROADWAY LUMINAIRES (250W HPS) WITH 15' ARMS ON THE BRIDGE TO REMAIN (LP 9 THRU LP 13).

(25) FOR BRIDGE MOUNTED FOOTING, SEE STD. DWG. STD-8-2SS.

(26) FOR I-124 (SR 29/US 27) LIGHTING NORTH OF MANUFACTURER'S ROAD SEE TDOT PROJECT PLAN NHE-29(48).

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REVIEW

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ESTIMATED LIGHTING QUANTITIES AND NOTES

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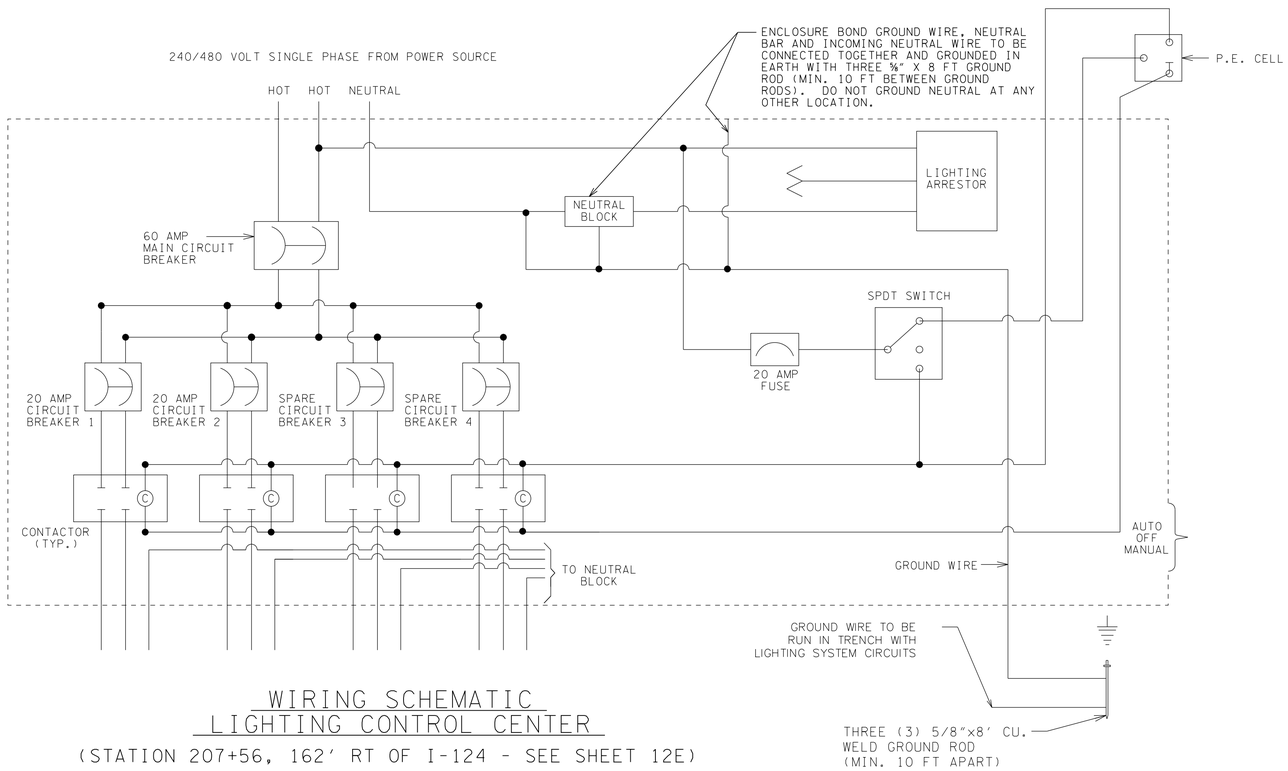
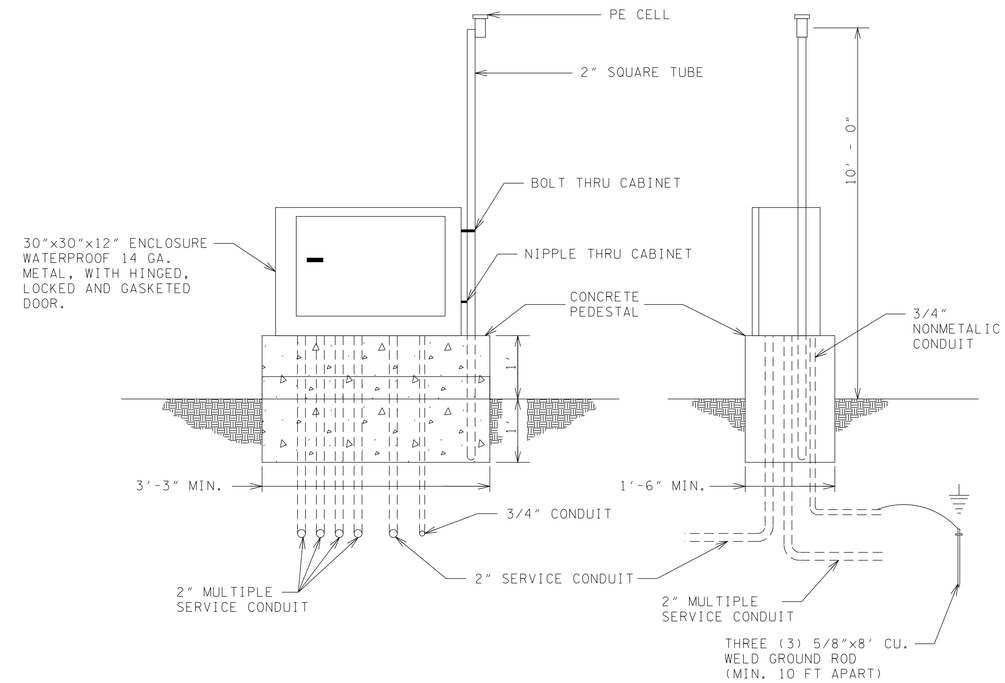
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2013	NHE-29(72)	12A



WIRING SCHEMATIC
LIGHTING CONTROL CENTER

(STATION 207+56, 162' RT OF I-124 - SEE SHEET 12E)



PAD MOUNTED CONTROLLER
CONSTRUCTION DETAIL

NOTES

1. CONTRACTOR IS RESPONSIBLE FOR ALL MATERIAL AND INSTALLATION UP TO AND INCLUDING WEATHERHEAD.
2. CONTRACTOR SHALL INSTALL A 100 AMP DISCONNECT AT EACH CONTROL CENTER AS DIRECTED BY THE ENGINEER.
3. CONTRACTOR TO COORDINATE FINAL LOCATION OF CONTROL CENTERS WITH CHATTANOOGA ELECTRIC POWER BOARD (EPB).
4. FOR ELECTRICAL SERVICE CONNECTION, CONTACT, MR. MIKE JONES OF EPB AT (423) 648-3439.
5. LIGHTING SYSTEM SHALL BE 240/480 VOLT SINGLE PHASE SERVICE.
6. ALL LUMINAIRES SHALL HAVE 240 VOLT OPERATION.
7. CONTRACTOR SHALL BALANCE LOADS ON EACH CIRCUIT.

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CONTROL CENTER DETAILS

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2013	NHE-29(72)	12B

OFFSET AND ROADWAY LIGHT POLE SCHEDULE

	LIGHT POLE NO.	SHEET NO.	LAMP WATTAGE	VOLTAGE	LUMINAIRE TYPE	NO. OF LAMPS	CONTROL CENTER NO.	CIRCUIT NO.	MOUNTING HEIGHT (FT)	BASELINE	STATION	OFFSET (FT)	SIDE	NORTHING	EASTING
	LP 1	12D	400W HPS	240/480	A	1	1	1	35	I-124	183+05	ON BRIDGE	RT	NA	NA
	LP 2	12D	400W HPS	240/480	A	1	1	1	35	I-124	185+05	ON BRIDGE	RT	NA	NA
	LP 3	12D	400W HPS	240/480	A	1	1	1	35	I-124	187+23	ON BRIDGE	RT	NA	NA
	LP 4	12D	400W HPS	240/480	A	1	1	1	35	I-124	189+41	ON BRIDGE	RT	NA	NA
	LP 5	12D	400W HPS	240/480	A	1	1	1	35	I-124	191+56	ON BRIDGE	RT	NA	NA
	LP 6	12D	400W HPS	240/480	A	1	1	1	35	I-124	193+71	ON BRIDGE	RT	NA	NA
	LP 7	12D	400W HPS	240/480	A	1	1	1	35	I-124	195+86	ON BRIDGE	RT	NA	NA
	LP 8	12E	400W HPS	240/480	A	1	1	1	35	I-124	198+01	ON BRIDGE	RT	NA	NA
(1)	LP 9	12E	250W HPS	240/480	B	1	1	1	35	I-124	200+15	EX. BRIDGE RAMP	RT	NA	NA
(1)	LP 10	12E	250W HPS	240/480	B	1	1	1	35	I-124	201+59	EX. BRIDGE RAMP	RT	NA	NA
(1)	LP 11	12E	250W HPS	240/480	B	1	1	1	35	I-124	203+11	EX. BRIDGE RAMP	RT	NA	NA
(1)	LP 12	12E	250W HPS	240/480	B	1	1	1	35	I-124	204+53	EX. BRIDGE RAMP	RT	NA	NA
(1)	LP 13	12E	250W HPS	240/480	B	1	1	1	35	I-124	205+86	EX. BRIDGE RAMP	RT	NA	NA
	LP 14	12D	400W HPS	240/480	A	1	1	2	35	I-124	182+28	ON BRIDGE	LT	NA	NA
	LP 15	12D	400W HPS	240/480	A	1	1	2	35	I-124	184+15	ON BRIDGE	LT	NA	NA
	LP 16	12D	400W HPS	240/480	A	1	1	2	35	I-124	186+10	ON BRIDGE	LT	NA	NA
	LP 17	12D	400W HPS	240/480	A	1	1	2	35	I-124	188+37	ON BRIDGE	LT	NA	NA
	LP 18	12D	400W HPS	240/480	A	1	1	2	35	I-124	190+48	ON BRIDGE	LT	NA	NA
	LP 19	12D	400W HPS	240/480	A	1	1	2	35	I-124	192+64	ON BRIDGE	LT	NA	NA
	LP 20	12D	400W HPS	240/480	A	1	1	2	35	I-124	194+79	ON BRIDGE	LT	NA	NA
	LP 21	12E	400W HPS	240/480	A	1	1	2	35	I-124	196+94	ON BRIDGE	LT	NA	NA
	LP 22	12E	400W HPS	240/480	A	1	1	2	35	I-124	199+09	ON BRIDGE	LT	NA	NA
	LP 23	12E	400W HPS	240/480	A	1	1	2	35	I-124	200+72	ON BRIDGE	LT	NA	NA
	LP 24	12E	400W HPS	240/480	A	1	1	2	35	I-124	202+27	ON BRIDGE	LT	NA	NA
	LP 25	12E	400W HPS	240/480	A	1	1	2	35	I-124	204+37	ON BRIDGE	LT	NA	NA
	LP 26	12E	400W HPS	240/480	A	1	1	2	35	I-124	206+47	ON BRIDGE	LT	NA	NA
	LP 27	12E	400W HPS	240/480	A	1	1	1	35	I-124	203+32	ON BRIDGE	RT	NA	NA
	LP 28	12E	400W HPS	240/480	A	1	1	1	35	I-124	205+42	ON BRIDGE	RT	NA	NA

A SINGLE OFFSET LUMINAIRE

B ROADWAY LUMINAIRE (COBRAHEAD) WITH 15' ARM

(1) EXISTING LIGHT STANDARD AND LUMINAIRE TO REMAIN

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REVIEW

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

BRIDGE LIGHTING DETAILS
(POLE DATA)

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2013	NHE-29(72)	12C

WIRING AND CONDUIT SCHEDULE

RUN NO.	POLE NO. TO POLE NO.			TRENCHED CONDUIT LENGTH (FT)	CONDUIT MOUNTED TO BRIDGE PARAPET/RAIL (FT)	**CONDUIT IN BRIDGE PARAPET (FT)	JACK & BORE CONDUIT LENGTH (FT)	CABLE LENGTH (FT)	SPECIAL NOTES	CONTROL CENTER NO.	CIRCUIT NO.	NO. OF 2" SCH. 40 PVC CONDUIT*	NO. & SIZE OF WIRE
1	CC1	TO	PBA	20				20		1	1, 2	1	6 @ #4 AWG 1 @ #4 GROUND"
	PBA	TO	PBB				85	85		1	1, 2		
2	PBB	TO	PBC	100				100		1	1	1	3 @ #4 AWG 1 @ #4 GROUND"
	PBC	TO	LP 28			340		340		1	1		
	PBA	TO	JBB	155	35			190		1	1		
	JBA	TO	LP 8 THRU LP 2			1420		1420		1	1		
	PBB	TO	LP 26 THRU LP 15	290		2525		2815		1	2		
3	LP 28	TO	LP 27			215		215		1	1	1	2 @ #4 AWG 1 @ #4 GROUND"
	LP 2	TO	LP 1			205		205		1	1		
	LP 15	TO	LP 14			200		200		1	2		

* MAX ALLOWABLE FILL = 40%
** CONDUIT INSTALLED BY OTHERS
PBA THRU PBC = PULL BOX A THRU PULL BOX C
JBA THRU JBB = JUNCTION BOX A THRU JUNCTION BOX B

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

BRIDGE LIGHTING DETAILS
(WIRING DATA)

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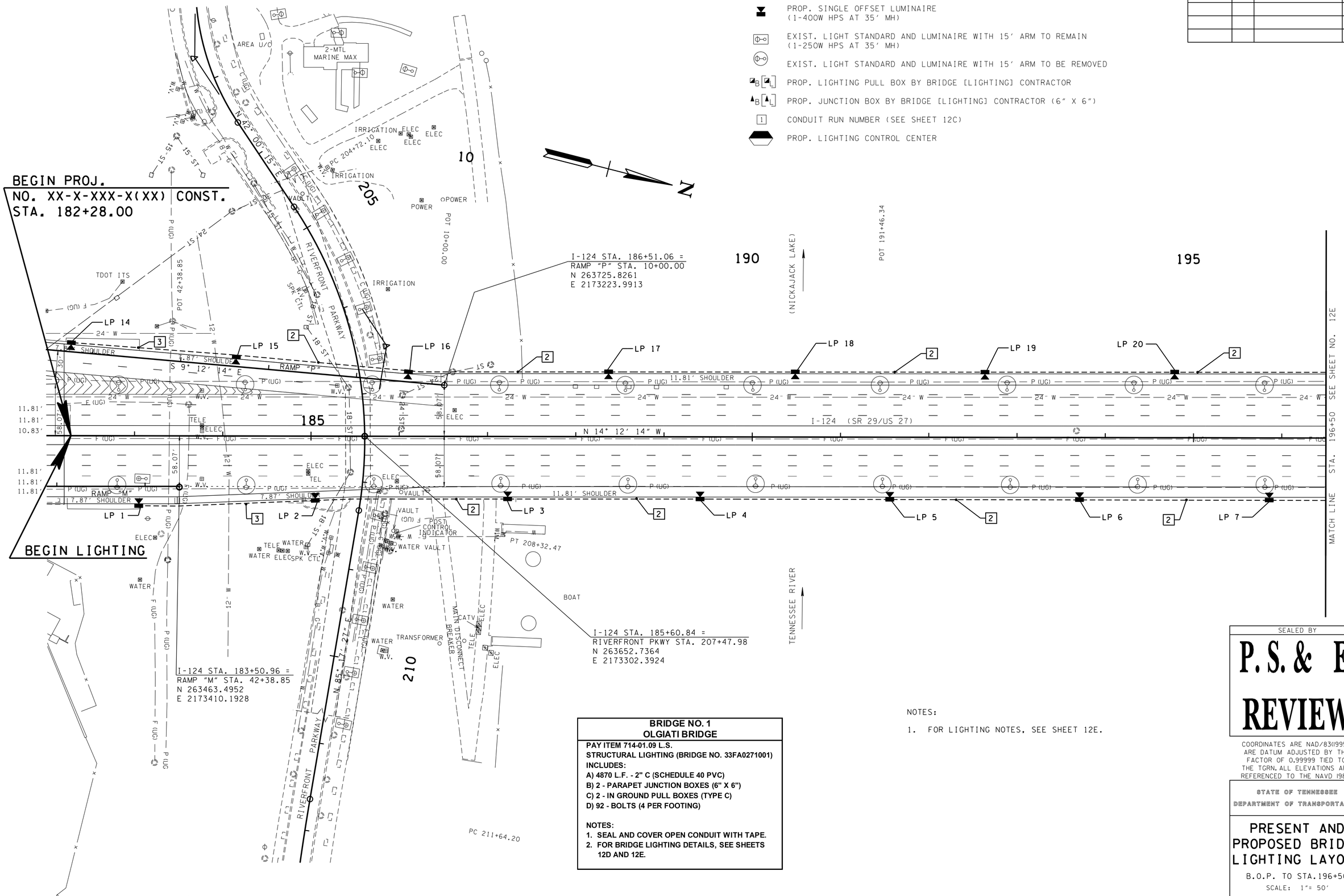
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2013	NHE-29(72)	12D

LEGEND

- PROP. SINGLE OFFSET LUMINAIRE (1-400W HPS AT 35' MH)
- EXIST. LIGHT STANDARD AND LUMINAIRE WITH 15' ARM TO REMAIN (1-250W HPS AT 35' MH)
- EXIST. LIGHT STANDARD AND LUMINAIRE WITH 15' ARM TO BE REMOVED
- PROP. LIGHTING PULL BOX BY BRIDGE [LIGHTING] CONTRACTOR
- PROP. JUNCTION BOX BY BRIDGE [LIGHTING] CONTRACTOR (6" X 6")
- CONDUIT RUN NUMBER (SEE SHEET 12C)
- PROP. LIGHTING CONTROL CENTER



BRIDGE NO. 1
OLGIATI BRIDGE

PAY ITEM 714-01.09 L.S.
STRUCTURAL LIGHTING (BRIDGE NO. 33FA0271001)
INCLUDES:
A) 4870 L.F. - 2" C (SCHEDULE 40 PVC)
B) 2 - PARAPET JUNCTION BOXES (6" X 6")
C) 2 - IN GROUND PULL BOXES (TYPE C)
D) 92 - BOLTS (4 PER FOOTING)

NOTES:
1. **SEAL AND COVER OPEN CONDUIT WITH TAPE.**
2. **FOR BRIDGE LIGHTING DETAILS, SEE SHEETS 12D AND 12E.**

NOTES:

1. FOR LIGHTING NOTES, SEE SHEET 12E.

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COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT AND PROPOSED BRIDGE LIGHTING LAYOUT

B.O.P. TO STA.196+50

SCALE: 1"= 50'

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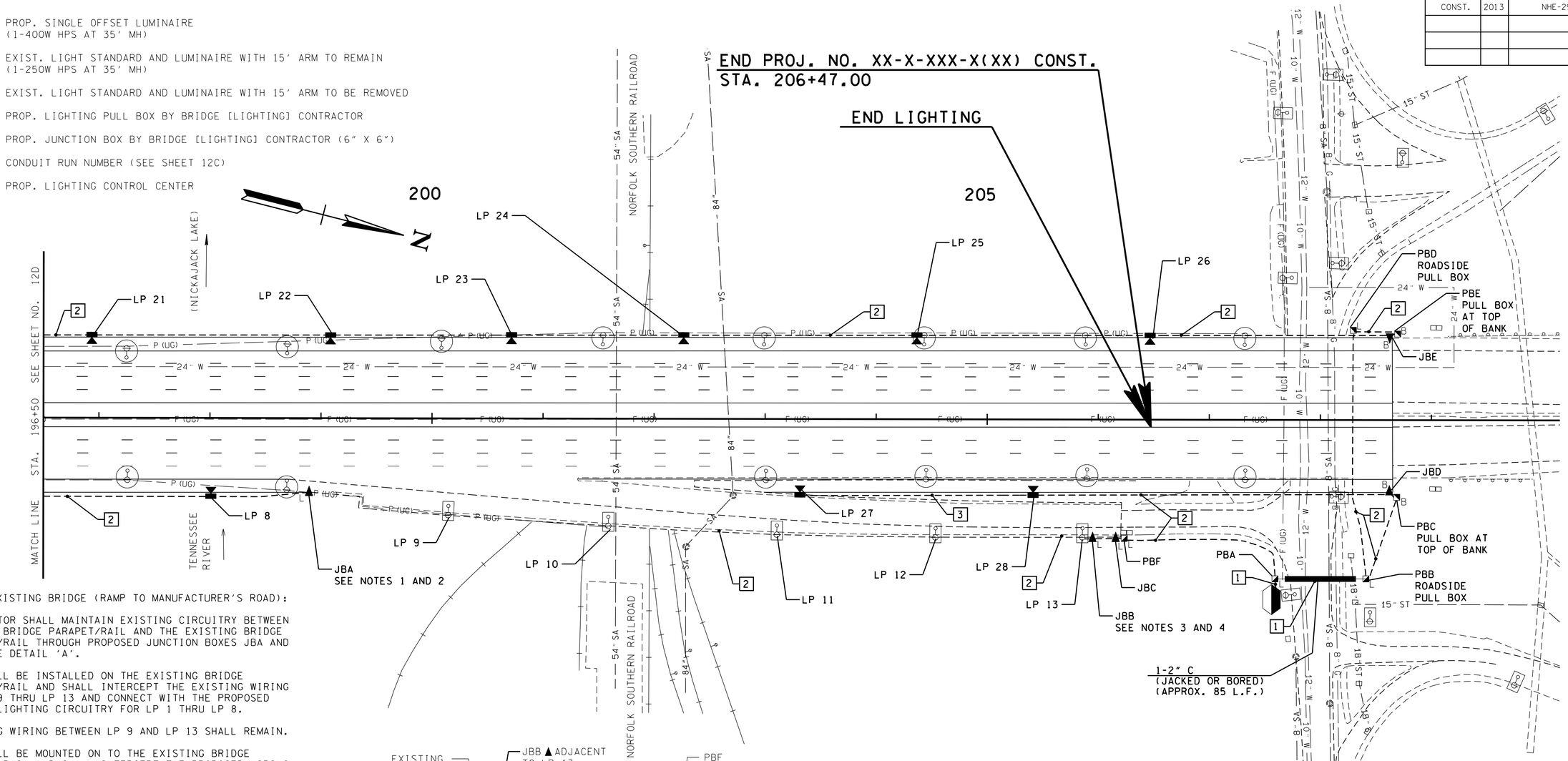
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2013	NHE-29(72)	12E

LEGEND

- PROP. SINGLE OFFSET LUMINAIRE (1-400W HPS AT 35' MH)
- EXIST. LIGHT STANDARD AND LUMINAIRE WITH 15' ARM TO REMAIN (1-250W HPS AT 35' MH)
- EXIST. LIGHT STANDARD AND LUMINAIRE WITH 15' ARM TO BE REMOVED
- PROP. LIGHTING PULL BOX BY BRIDGE [LIGHTING] CONTRACTOR
- PROP. JUNCTION BOX BY BRIDGE [LIGHTING] CONTRACTOR (6" X 6")
- CONDUIT RUN NUMBER (SEE SHEET 12C)
- PROP. LIGHTING CONTROL CENTER

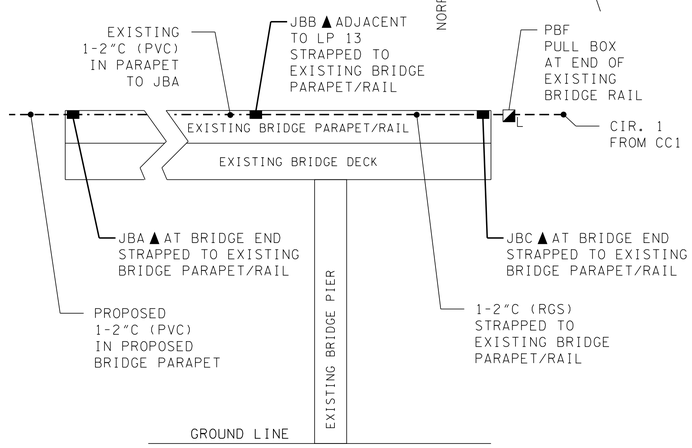


NOTES FOR EXISTING BRIDGE (RAMP TO MANUFACTURER'S ROAD):

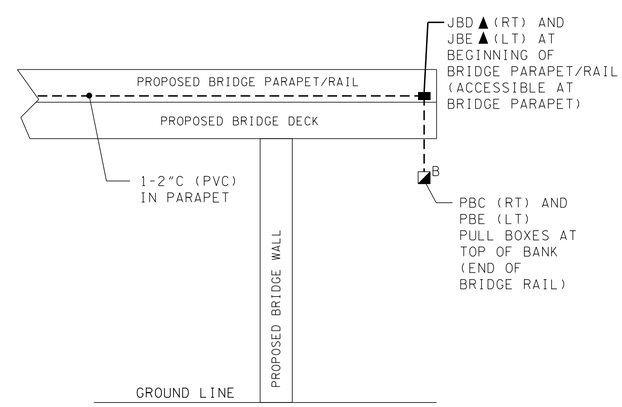
1. CONTRACTOR SHALL MAINTAIN EXISTING CIRCUITRY BETWEEN THE NEW BRIDGE PARAPET/RAIL AND THE EXISTING BRIDGE PARAPET/RAIL THROUGH PROPOSED JUNCTION BOXES JBA AND JBB. SEE DETAIL 'A'.
2. JBA SHALL BE INSTALLED ON THE EXISTING BRIDGE PARAPET/RAIL AND SHALL INTERCEPT THE EXISTING WIRING FOR LP 9 THRU LP 13 AND CONNECT WITH THE PROPOSED BRIDGE LIGHTING CIRCUITRY FOR LP 1 THRU LP 8.
3. EXISTING WIRING BETWEEN LP 9 AND LP 13 SHALL REMAIN.
4. JBB SHALL BE MOUNTED ON TO THE EXISTING BRIDGE PARAPET/RAIL AND SHALL INTERCEPT THE PROPOSED WIRING FOR CIR. 1 FROM CONTROL CENTER CC1 AND CONNECT TO THE EXISTING LIGHTING CIRCUITRY AT LP 13. SEE DETAIL 'A'.
5. THE COST OF CONDUIT AND JUNCTION BOXES STRAPPED TO THE BRIDGE, AND ASSOCIATED PULL BOXES SHALL BE PAID FOR UNDER LIGHTING PAY ITEMS 714-04.02, 714-05.04, AND 714-05.05.

NOTES FOR PROPOSED BRIDGE (BRIDGE NO. 33FA0271001):

6. OFFSET LUMINAIRES LP 1 THRU LP 7, LP 14 THRU LP 20 (SHEET 12D), LP 8, AND LP 21 THRU LP 28 SHALL BE MOUNTED ON BRIDGE FOOTINGS. FOR LOCATIONS, SEE LIGHT POLE SCHEDULE ON SHEET 12B.
7. THE BRIDGE FOOTINGS FOR THE LIGHT POLES ARE INTEGRAL TO THE BRIDGE AND SHALL BE INSTALLED DURING ITS CONSTRUCTION. PAYMENT FOR THE BRIDGE FOOTINGS IS INCLUDED IN THE STRUCTURAL PAY ITEMS FOR THE BRIDGE.
8. GROUND MOUNTED PULL BOXES, PBC (RT) AND PBE (LT), LOCATED AT THE TOP OF THE BANK ON EACH SIDE OF THE ROADWAY SHALL PROVIDE ACCESS TO CIRCUITS 1 AND 2 FROM JUNCTION BOXES, JBD (RT) AND JBE (LT), INSTALLED ON THE BRIDGE PARAPET/RAIL. SEE DETAIL 'B'.
9. ANY CONDUIT, ANCHOR BOLTS, PULL BOXES, AND JUNCTION BOXES THAT ARE INTEGRAL TO THE BRIDGE PARAPET/RAIL SHALL BE INSTALLED DURING ITS CONSTRUCTION. THE COST FOR THESE ITEMS SHALL BE INCLUDED IN LUMP SUM STRUCTURAL LIGHTING PAY ITEM 714-01.09 INCLUDED WITH THE BRIDGE PAY ITEMS. REFER TO SHEET 12D FOR QUANTITIES.



DETAIL 'A'
CONDUIT ROUTING FOR OVERPASS
LIGHTING ON EXISTING BRIDGE PARAPET
NTS



DETAIL 'B'
CONDUIT ROUTING FOR OVERPASS
LIGHTING IN PROPOSED BRIDGE PARAPET
NTS

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT AND PROPOSED BRIDGE LIGHTING LAYOUT

STA. 196+50 TO E.O.P.
(℄ I-124)
SCALE: 1"= 50'

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