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MOT

SR

MIAMI COUNTY MOT-235-1.77R MONTGOMERY COUNTY

GREENE COUNTY

LOCATION MAP

LATITUDE: N 39° 52' 02" LONGITUDE: W 84°03' 19" SCALE IN MILES

	JUA	LE IN MIL	ES	Managaran Managa	
0	1	2	3	4	
PORTION TO BE I	MPROVED.				
INTERSTATE HIGH	WAY				*Commonwealth Commonwealth
FEDERAL ROUTES.					_
STATE ROUTES					
COUNTY & TOWNS	HIP ROADS	5			
OTHER ROADS					
DESIGN DESIGN	GNATIO	N			
CURRENT ADT (20)	18)				14000
DESIGN YEAR ADT	(2038)	******			15000
DESIGN HOURLY V	OLUME (20)38)			1400
DIRECTIONAL DIST	<i>IRIBUTION</i>				57%
TRUCKS (24 HOUR	B&C1				10%
DESIGN SPEED					60 MPH
LEGAL SPEED					60 MPH
DESIGN FUNCTION	AL CLASSI	FICATION	l:		
URBAN PRINCIPAL	ARTERIAL				

STATE OF OHIO

DEPARTMENT OF TRANSPORTATION

MOT-235-1.77R

CITY OF HUBER HEIGHTS MONTGOMERY COUNTY

INDEX OF SHEETS:

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PROJECT DESCRIPTION

REPLACE DETERIORATED NON-COMPOSITE BOX BEAM SUPERSTRUCTURE WITH COMPOSITE BOX BEAM SUPERSTRUCTURE ON MODIFIED SEMI-INTEGRAL ABUTMENTS WITH MINOR APPROACH WORK.

PROJECT EARTH DISTURBED AREA: ESTIMATED CONTRACTOR EARTH DISTURBED AREA: 0.27 ACRES NOTICE OF INTENT EARTH DISTURBED AREA: N/A (NOI NOT REQUIRED)

O.18 ACRES

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LIMITED ACCESS

THIS IMPROVEMENT IS ESPECIALLY DESIGNED FOR THROUGH TRAFFIC AND HAS BEEN DECLARED A LIMITED ACCESS HIGHWAY OR FREEWAY BY ACTION OF THE DIRECTOR IN ACCORDANCE WITH THE PROVISIONS OF SECTION 5511.02 OF THE OHIO REVISED CODE.

2016 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO. DEPARTMENT OF TRANSPORTATION, INCLUDING CHANGES LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

UNDERGROUND UTILITIES CONTACT BOTH SERVICES TWO WORKING DAYS BEFORE YOU DIG. Call Before You Dig OHIO Utilities Protection 1-800-382-2784 SERVICE (Non-members must be called directly) OIL & GAS PRODUCERS UNDERGROUND PROTECTION SERVICE 1-800-925-0988

NHS PROJECT NO

APPROVAL DATES

10/31/17

10/31/17

SHEET NUMBERS

16

16

DESIGN EXCEPTIONS

DESIGN FEATURE

DEGREE OF CURVE

HORIZONTAL SSD

PLAN PREPARED BY: OHIO DEPARTMENT OF TRANSPORTATION DISTRICT 7 1001 ST. MARY'S AVE SIDNEY, OH 45365

## BP-3.1 7/18/14 BR-1-13 1/17/14 800-2016 10/20/17 OEPA 2/10/14 ## BP-5.1 7/19/13 PSB0-2-07 1/21/11 809 7/21/17 DEMO ## VPF-1-90 7/17/15 821 4/20/12 ## VPF-1-90 7/17/15 821 4/20/12 ## CONTINUERS SEAL: ## DM-1.1 7/21/17 832 1/17/14 ## DM-1.2 1/18/13 MT-95.30 7/21/17 844 7/17/15 ## DM-4.1 1/15/16 MT-98.29 1/20/17 921 4/20/12 ## DM-4.1 1/15/16 MT-105.10 1/20/17 921 4/20/12 ## DM-4.1 1/15/16 MT-105.10 1/20/17 921 4/20/12 ## DM-4.1 1/15/16 MT-105.10 1/20/17 921 4/20/12 ## DATE: 11/21/17 TC-42.20 10/18/13 921 4/20/12 ## DATE: 11/21/17 TC-65.10 1/17/14 921 4/20/17 921 4/20/17 921 4/20/17 ## DATE: 11/21/17 TC-65.10 1/17/14 921 4/20/17 921 4/20/17 921 4/20/17 921 4/20/17 921 4/20/17 921 4/20/17 921 4/20/12 921 4/20/12 921 4/20/12 921 4/20/12 921 4/20/12 921 4/20/12 921 4/20/12 921 4/20/12 921 4/20/12 921 4/20/12 921 4/20/12 921 4/20/12 921 4/20/12 921 4/20/12 921 4/20/12 921 4/20/12 921 4/20/12 921 4/20/12 921 4/20/12 921 4/20/12 921 4/20/12 921 4/20/12 921 4/20/12 921 4/20/12 921 4/20/12 921 4/20/12 921 4/20/12 921 4/20/12 921 4/20/12 921 4/20/12 921 4/20/12 921 4/20/12 921 4/20/12 921 4/20/12 921 4/20/12 921 4/20/12 921 4/20/12 921 4/20/12 921 4/20/12 921 4/20/12 921 4/20/12 921 4/20/12 921 4/20/12 921 4/20/12 921 4/20/12 921 4/20/12 921 4/20/12 921 4/20/12 921 4/20/12 921 4/20/12 921 4/20/12 921 4/20/12 921 4/20/12 921 4/20/12 921 4/20/12 921 4/20/12 921 4/20/12 921 4/20/12 921 4/20/12 921 4/20/12 921 4/20/12 921 4/20/12 921 4/20/12 921 4/20/12 921 4/20/12 921 4/20/12 921 4/20/12 921 4/20/12 921 4/20/12 921 4/20/12 921 4/20/12 921 4/20/12 921 4/20/12 921 4/20/12 921 4/20/12 921 4/20/12 921 4/20/12 921 4/20/12 921 4/20/					STANDAR	D CONST	TRUCTION	i Drawi	NGS			ICATIONS	1	ISIONS	
BP-5.1 7/19/13 PSB0-2-07 1/21/11 809 7/21/17 DEMO VPF-1-80 7/17/15 821 4/20/12 WPF-1-80 7/17/15 832 1/17/14 WPF-1-80 7/17/15 832 1/17/14 WPF-1-80 7/17/15 WPF-1-80 7/1		BP-3.1	7/18/14	BR-1-13	1/17/14			~T			 800-20	16 10/20/17	OEPA	2/10/14	
ENGINEERS SEAL: DM-1.1		BP-5.1	7/19/13	PSBD-2-07	1/21/11						809		DEMO		ĺ
ENGINEERS SEAL: DM-1.2				VPF-1-90	7/17/15					 	 				
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DM-4.4 1/15/16 MT-101.60 1/20/17 MT-105.10 7/19/13 MGS-1.1 7/21/17 MGS-2.1 7/19/13 TC-42.20 10/18/13 MGS-3.1 7/21/17 TC-42.20 10/18/13 MGS-3.2 1/18/13 TC-52.10 10/18/13 MGS-6.1 7/19/13 TC-52.20 7/21/17 SIGNED: Bail Human Hullit AS-1.15 7/17/15 TC-65 10 1/27/14	ENGINEERS SEAL.	DM-1.2	1/18/13	MT-95.30	7/21/17						 				
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SIGNED: Janiel Human Hullist 15-1-15 7/17/15 TC-65 10 1/17/14	Carle Commence Commen	- AND IN SECTION SECTI					,			 	 		 		
SIGNED: Janiel Human Hullist 15-1-15 7/17/15 TC-65 10 1/17/14	A Contract of the Contract of									 	 				
STONED: DANIEL HUMAN BUILD IS-LIE 7/17/15 TO-65 ID 1/17/14										 	 		ļ		
DATE: 11/2/17 AS-2-15 7/17/15 TC-65.10 1/17/14 DATE: 11/2/17 AS-2-15 7/17/15 TC-65.11 7/21/17	Mariel Vinery Hellist	L.,,								 	 		 		
DATE: "12 AS-2-15 7/17/15 TC-65.11 7/21/17	SIGNED: WENCE NOW AND DURING	AS-1-15						_		 	 		 		į
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I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND RAMPS AND THAT DETOURS WILL BE PROVIDED AS INDICATED ON SHEETS 5-10.

SUPPLEMENTAL.

SPECIAL

DATE 11/2/17 DISTRICT DEPUTY DIRECTOR

DATE 11-276 THRECTOR, DEPARTMENT OF TRANSPORTATION



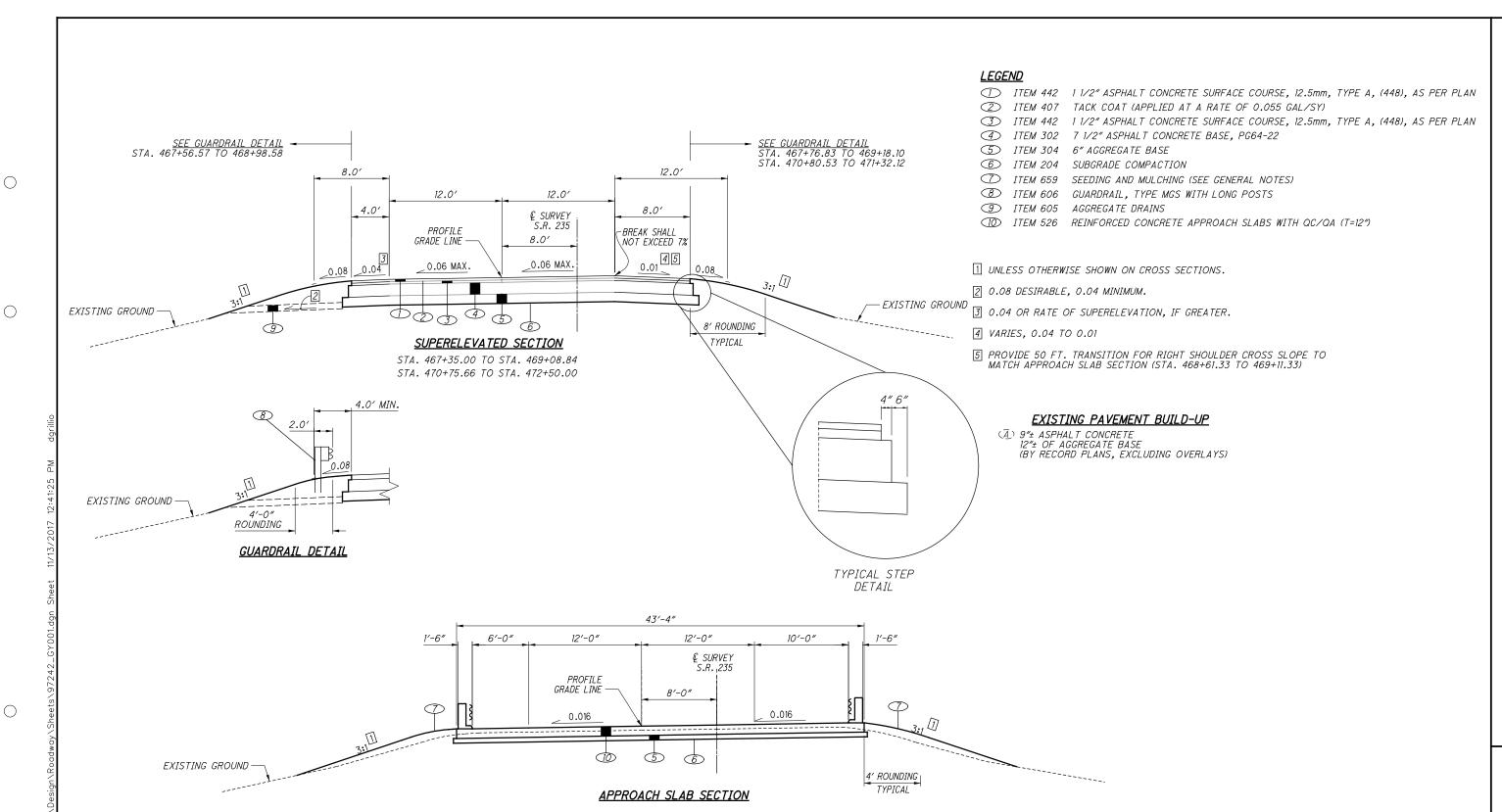
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LIMITING STATIONS

STA. 469+08.84 TO STA. 469+23.84 = 15.0 FT.

STA. 469+23.84 TO STA. 470+60.66 = BRIDGE LIMITS

STA. 470+60.66 TO STA. 470+75.66 = 15.0 FT.

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ROUNDING

THE ROUNDING AT SLOPE BREAKPOINTS SHOWN ON THE TYPICAL SECTIONS APPLIES TO ALL CROSS-SECTIONS EVEN THOUGH OTHERWISE SHOWN.

UTILITIES

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LISTED BELOW ARE ALL UTILITIES LOCATED WITHIN THE PROJECT CONSTRUCTION LIMITS TOGETHER WITH THEIR **RESPECTIVE OWNERS:**

TRAFFIC CAMERA HIGHWAY LIGHTING BRYAN COMER, P.E. ODOT - DISTRICT 7 ODOT ITS LAB 1001 ST. MARYS AVE. 1606 WEST BROAD STREET

SIDNEY, OHIO 45365 COLUMBUS, OH 43223

(937) 497-6897 614-387-4113 JUSTIN YOH cen.its.lab@dot.ohio.gov

THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS AS REQUIRED BY SECTION 153.64 O.R.C.

UTILITY NOTIFICATION

EVEN THOUGH ODOT IS LISTED AS A MEMBER OF THE OHIO UTILITIES PROTECTION SERVICE (OUPS), THE CONTRACTOR ON THIS PROJECT IS REQUIRED TO CONTACT ODOT DISTRICT 7 TRAFFIC DEPARTMENT AND ITS DIRECTLY SO THAT THE ODOT UTILITIES, LOCATED WITHIN THIS PROJECT, ARE MARKED.

THE CONTRACTOR SHALL NOTIFY DISTRICT 7 TRAFFIC AT (937)497-6841; ODOT ITS LAB AT (614)387-4113

THE ABOVE REQUIREMENTS ARE IN ADDITION TO SECTIONS 105.07 & 107.16 OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS (CMS).

THE COST FOR THE ABOVE DESCRIBED WORK IS INCIDENTAL TO THE OVERALL BID PRICE OF THE PROJECT.

ITS DOWNTIME

SEE SUPPLEMENTAL SPECIFICATION 809 FOR DOWNTIME REQUIREMENTS OF ITS DEVICES.

EXISTING PLANS

- MOT-40R-23.41/CLA-40R-0.00 R/W PLANS (1955)
- MOT-70-22.72 / CLA-70-0.00 (1984) EXISTING STRUCTURE
- MOT-70-16.70 + VARIOUS VANDAL PROTECTION FENCE (1990)
- VAR-DAYTON SPRINGFIELD FREEWAY MANAGEMENT SYSTEM (ITS PROJECT) (2011)

MAY BE INSPECTED IN THE ODOT DISTRICT 7 OFFICE IN SIDNEY, OHIO.

WORK LIMITS

THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. PROVIDE THE INSTALLATION AND OPERATION OF ALL WORK ZONE TRAFFIC CONTROL AND WORK ZONE TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS.

CLEARING AND GRUBBING

ALTHOUGH THERE ARE NO TREES OR STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE LIMITS OF THE PROJECT, A LUMP SUM QUANTITY IS INCLUDED IN THE GENERAL SUMMARY FOR ITEM 201, CLEARING AND GRUBBING. ALL PROVISIONS AS SET FORTH IN THE SPECIFICATIONS UNDER THIS ITEM ARE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 201, CLEARING AND GRUBBING.

SURVEYING PARAMETERS

PRIMARY PROJECT CONTROL MONUMENTS GOVERN ALL POSITION-ING ON ODOT PROJECTS. SEE SHEET 16 AND 17 OF THE PLANS FOR A TABLE CONTAINING PROJECT CONTROL INFORMATION.

USE THE FOLLOWING PROJECT CONTROL, VERTICAL POSITIONING, AND HORIZONTAL POSITIONING PARAMETERS FOR ALL SURVEYING:

PROJECT CONTROL

POSITIONING METHOD: VRS GPS OBSERVATION, DIFFERENTIAL LEVELING AND CONVENTIONAL TRAVERSE WITH TOTAL STATION.

MONUMENT TYPE: 5/8" REBAR WITH PLASTIC CAP INSCRIBE "EMHT TRAV"

VERTICAL POSITIONING

ORTHOMETRIC HEIGHT DATUM: NAVD88 GEOID: GEOID12B

HORIZONTAL POSITIONING

REFERENCE FRAME: NAD83(2011) ELLIPSOID: GRS80 MAP PROJECTION: LAMBERT CONFORMAL CONIC COORDINATE SYSTEM: OHIO STATE PLANE (SOUTH ZONE 3402) COMBINED SCALE FACTOR: 0.9999357368 (GROUND TO GRID) ORIGIN OF COORDINATE SYSTEM: 0, 0, 0

USE THE POSITIONING METHODS AND MONUMENT TYPE USED IN THE ORIGINAL SURVEY TO RESTORE ALL MONUMENTS RELATED TO PRIMARY PROJECT CONTROL THAT ARE DAMAGED OR DESTROYED BY CONSTRUCTION ACTIVITIES. RESTORE THE DAMAGED OR DESTROYED MONUMENTS IN ACCORDANCE WITH CMS 623.

UNITS ARE IN U.S. SURVEY FEET. USE THE FOLLOWING CONVERSION FACTOR: 1 METER = 3.280833333 U.S. SURVEY

AIRWAY/HIGHWAY CLEARANCE FOR AIRPORTS AND **HELIPORTS**

THIS PROJECT HAS BEEN IDENTIFIED AS BEING WITHIN THE INFLUENCE AREA OF A PRIVATE USE AIRPORT OR HELIPORT. NO TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT AT MAXIMUM OPERATING HEIGHT SHALL EXCEED A HEIGHT OF 88 FT. IF ANY TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT WILL EXCEED THIS HEIGHT, COORDINATION WITH THE AIRPORT OWNER AND THE ODOT OFFICE OF AVIATION WILL BE NECESSARY PRIOR TO ERECTING SUCH TEMPORARY STRUCTURES OR OPERATING SUCH EQUIPMENT ON THE PROJECT. FOR PRIVATE USE AIRPORTS OR HELIPORTS, COORDINATE WITH THE AIRPORT OWNER AND THE ODOT OFFICE OF AVIATION, NO TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT SHALL EXCEED THE PERMISSIBLE HEIGHT, UNTIL COORDINATION IS MET AND DOCUMENTATION HAS BEEN FURNISHED TO THE PROJECT ENGINEER. IF COORDINATION IS NOT OBTAINED, THEN THE PROJECT ENGINEER WILL HAVE THE AUTHORITY TO PROVIDE RESTRICTIONS AS REQUIRED.

WRIGHT-PATTERSON AIR FORCE BASE U.S AIR FORCE DAYTON, OH 45433 (937) 257-2131 AIRFIELD MANAGER: ROMULO ALCANTARA (937) 257-6206

ITEM 630 - SIGN, FLAT SHEET, AS PER PLAN

THIS ITEM SHALL BE USED TO INSTALL A NEW STRUCTURE IDENTIFICATION SIGN ON THE CONCRETE PARAPET/GUARDRAIL. SEE THIS SHEET AND SHEET 16 FOR LOCATION OF SIGNS.

THE SIGN SIZE SHALL BE 24" X 4". THE SIGN SHALL BE ALUMINUM WITH NONREFLECTIVE WHITE SHEETING BACKGROUND AS PER CMS 730.20. LETTERS SHALL BE BLACK 2" HEIGHT, SERIES C STROKE WIDTH, AND SILK SCREENED AS PER CMS 730.22. SIGNS SHALL BE BOLTED TO THE GUARDRAIL BY USING TWO $\frac{5}{6}$ " DIAMETER BOLTS X 6" LONG AND TWO $\frac{5}{6}$ " NUTS. SIGNS SHALL BE FASTENED TO THE CONCRETE PARAPET BY USING TWO 5/6" DIAMETER BOLTS X 3" LONG TAP CONS OR EQUIVALENT.

PAYMENT SHALL INCLUDE ALL LABOR, MATERIAL, AND EQUIPMENT REQUIRED TO PERFORM THE ITEM OF WORK AS DESCRIBED ABOVE.

• MOT- 235 -0177R •

STRUCTURE IDENTIFICATION SIGN

LOCATIONS:

1. AT REAR ABUTMENT, RIGHT SIDE, ON CONCRETE PARAPET WALL, FACING ROADWAY

2. AT GUARDRAIL IN FRONT OF EAST COLUMN OF PIER 2

ITEM 606 - ANCHOR ASSEMBLY, MGS TYPE B

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING ANY OF THE GUARDRAIL END TERMINALS FOR TYPE MGS GUARDRAIL AS LISTED ON ROADWAY ENGINEERING'S WEB PAGE UNDER ROADSIDE SAFETY DEVICES FOR APPROVED GUARDRAIL END TREATMENTS. INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS, IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

REFER TO THE MANUFACTURER'S INSTRUCTIONS REGARDING THE INSTALLATION OF, AND THE GRADING AROUND, THE FOUNDATION TUBES AND GROUND STRUT. THE TOP OF ANY FOUNDATION TUBE SHOULD BE LESS THAN 4 INCHES ABOVE THE GROUND. THE PLACEMENT OF THE FOUNDATION TUBES SHOULD BE AN APPROPRIATE DEPTH BELOW THE LEVEL LINE IN ORDER TO MAINTAIN THE FINISHED GUARDRAIL HEIGHT OF 31 INCHES FROM THE EDGE OF THE SHOULDER.

ON-SITE GRADING IS REQUIRED IF THE TOP OF THE FOUNDATION TUBES OR TOP OF THE GROUND STRUT DOES PROJECT MORE THAN 4 INCHES ABOVE THE GROUND LINE.

THE FACE OF THE TYPE B IMPACT HEAD SHALL BE COVERED WITH TYPE G REFLECTIVE SHEETING, PER CMS 730.19.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID FOR ITEM 606, ANCHOR ASSEMBLY, MGS TYPE B, EACH, AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO CONSTRUCT A COMPLETE AND FUNCTIONAL ANCHOR ASSEMBLY SYSTEM, INCLUDING REFLECTIVE SHEETING AND ALL RELATED HARDWARE, GRADING, EMBANKMENT AND EXCAVATION NOT SEPARATELY SPECIFIED, AS REQUIRED BY THE MANUFACTURER.

ITEM 442 - 1 1/2" ASPHALT CONCRETE SURFACE COURSE, 12.5mm, TYPE A, (448), AS PER PLAN

THE ASPHALT BINDER TO BE USED IS PG64-22.

ITEM 606 - ANCHOR ASSEMBLY, MGS TYPE E

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING ANY OF THE GUARDRAIL END TERMINALS FOR TYPE MGS GUARDRAIL AS LISTED ON ROADWAY ENGINEERING'S WEB PAGE UNDER ROADSIDE SAFETY DEVICES FOR APPROVED GUARDRAIL END TREATMENTS. INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS, IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

THE FACE OF THE TYPE E IMPACT HEAD SHALL BE COVERED WITH A SHEET OF TYPE G REFLECTIVE SHEETING, PER CMS 730.19.

REFER TO THE MANUFACTURER'S INSTRUCTIONS REGARDING THE INSTALLATION OF, AND THE GRADING AROUND THE FOUNDATION TUBES AND GROUND STRUT. THE TOP OF ANY FOUNDATION TUBE SHOULD BE LESS THAN 4 INCHES ABOVE THE GROUND. THE PLACEMENT OF THE FOUNDATION TUBES SHOULD BE AN APPROPRIATE DEPTH BELOW THE LEVEL LINE IN ORDER TO MAINTAIN THE FINISHED GUARDRAIL HEIGHT OF 31 INCHES FROM THE EDGE OF THE SHOULDER.

ON-SITE GRADING IS REQUIRED IF THE TOP OF THE FOUNDATION TUBES OR TOP OF THE GROUND STRUT DOES PROJECT MORE THAN 4 INCHES ABOVE THE GROUND LINE.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID FOR ITEM 606, ANCHOR ASSEMBLY, MGS TYPE E, EACH, AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO CONSTRUCT A COMPLETE AND FUNCTIONAL ANCHOR ASSEMBLY SYSTEM, INCLUDING ALL RELATED TRANSITIONS, REFLECTIVE SHEETING, HARDWARE, GRADING, EMBANKMENT AND EXCAVATION NOT SEPARATELY SPECIFIED, AS REQUIRED BY THE MANUFACTURER.

SEEDING AND MULCHING

THE FOLLOWING QUANTITIES ARE PROVIDED TO PROMOTE GROWTH AND CARE OF PERMANENT SEEDED AREAS AFFECTED BY EXCAVATION AS SHOWN ON THE CROSS SECTIONS:

SHEET NUMBER	ITEM 203 EXCAVATION	ITEM 203 EMBANKMENT	ITEM 659 SEEDING AND MULCHING
	CU. YD.	CU. YD.	SQ. YD.
18	6	1	19
19	70	14	105
20	71	19	201
21	25	15	89
22	1	3	28
23	47	13	145
24	78	4	175
25	29	1	39
TOTALS	327	70	801

659. REPAIR SEEDING AND MULCHING 801 S.Y. X 0.05

40 SQ. YD.

659, COMMERCIAL FERTILIZER 801 S.Y. X 9 X (30/1000) X (1/2000) 0.11 TON

801 S.Y. X 9 X 300 X 2 X (1/1000)

4.3 M. GAL.

SEEDING AND MULCHING SHALL BE APPLIED TO ALL AREAS OF EXPOSED SOIL BETWEEN THE RIGHT-OF-WAY LINES. AND WITHIN THE CONSTRUCTION LIMITS FOR AREAS OUTSIDE THE RIGHT-OF-WAY LINES COVERED BY WORK AGREEMENT OR SLOPE EASEMENT. QUANTITY CALCULATIONS FOR SEEDING AND MULCHING ARE BASED ON THESE LIMITS.



THE INTENT OF THIS ITEM IS TO REMOVE THE EXISTING TYPE A ANCHOR ASSEMBLIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING THE TYPE A, AND THE CONCRETE ANCHOR PAD COMPLETELY AND REMOVE FROM PROJECT SITE. THE CONTRACTOR SHALL BACKFILL THE VOID WITH SUITABLE BACKFILL MATERIAL THAT HAS BEEN APPROVED BY THE ENGINEER. ALL WORK, LABOR EQUIPMENT, MATERIAL, AND INCIDENTALS NECESSARY TO TO COMPLETE THIS ITEM OF WORK SHALL BE INCLUDED IN THE COST PER EACH, FOR ITEM 202, ANCHOR ASSEMBLY REMOVED, TYPE A, AS PER PLAN.

ITEM 605, AGGREGATE DRAINS

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STATION	SIDE	LENGTH
467+65	LT.	22'
467+90	LT.	21′
468+15	LT.	17'
468+40	LT.	14'
468+65	LT.	11'
468+90	LT.	14'
470+75	LT.	12'
471+00	LT.	14'
<i>471+25</i>	LT.	15′
<i>471+50</i>	LT.	16′
<i>471+75</i>	LT.	18′
472+00	LT.	16′
TOTALS TO GENER	RAL SUMMARY	190′

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ITEM 614, MAINTAINING TRAFFIC

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A MINIMUM OF ONE LANE OF TRAFFIC SHALL BE MAINTAINED AT ALL TIMES. EXCEPT FOR A PERIOD NOT TO EXCEED 75 CONSECUTIVE CALENDAR DAYS, WHEN THROUGH TRAFFIC MAY BE DETOURED AS SHOWN ON SHEET 7. A DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT OF \$1500 FOR EACH CALENDAR DAY THE ROADWAY REMAINS CLOSED TO TRAFFIC BEYOND THE SPECIFIED LIMIT.

MOT-235-01.77R BRIDGE WILL BE CLOSED FOR THIS PROJECT. TRAFFIC WILL BE DETOURED FOR S.R. 235 NORTH AND FOR THE IR-70 EAST TO SR 235 NORTH RAMP. THE DETOUR FOR THESE TWO CLOSURES WILL BE IR-70 EAST TO EXIT 44A (IR-675 SOUTH/CINCINNATI) TO EXIT 24 (SR 444/FAIRBORN/WPAFB AREA A) TO I-675 NORTH TO EXIT 26B (IR-70/SR-4 WEST).

DURING BEAM REMOVAL AND BEAM INSTALLATION, THE I-70 WEST EXIT RAMP TO S.R. 235/S.R. 4 SOUTH MAY BE CLOSED FROM 6:00 P.M. TO 3:00 A.M. THE DETOUR FOR THIS CLOSURE WILL BE I-70 WEST TO EXIT 38 (S.R. 201/HUBER HEIGHTS) TO I-70 EAST TO EXIT 41A (S.R. 235/S.R. 4 SOUTH/FAIRBORN).

THE CONTRACTOR SHALL PROVIDE, ERECT AND MAINTAIN STANDARD 48 X 30 INCH ROAD CLOSED SIGNS, SIGN SUPPORTS, BARRICADES AND LIGHTS, AS DETAILED IN SCD MT-101.60 AT THE FOLLOWING LOCATIONS DURING PERIODS IN WHICH THE AFFECTED ROADS ARE CLOSED TO TRAFFIC:

- S.R. 235 NORTH EXIT RAMP TO I-70 WEST, INDIANAPOLIS
- I-70 EAST EXIT RAMP (EXIT 41) TO S.R. 235 NORTH, NEW CARLISLE (EXIT 41B)
- I-70 WEST EXIT RAMP (EXIT 41) TO S.R. 4/S.R. 235 SOUTH, DAYTON (BEAM REMOVAL/BEAM INSTALLATION)

THE CONTRACTOR SHALL PROVIDE, ERECT AND MAINTAIN SIGNS AND SIGN SUPPORTS, AS DETAILED IN THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, AND TYPE III BARRICADES OF THE PROPER TYPE AND LOCATION.

NOTICE OF CLOSURE SIGNS (W20-H13), SHALL BE ERECTED BY THE CONTRACTOR PRIOR TO THE SCHEDULED ROAD OR RAMP CLOSURE IN ACCORDANCE WITH THE NOTICE OF CLOSURE TIME TABLE BELOW. AT THE APPROVAL OF THE ENGINEER, PORTABLE CHANGABLE MESSAGE SIGNS MAY BE USED IN LIEU OF THE STANDARD FLATSHEET SIGN FOR CLOSURE DURATIONS OF LESS THAN 1 WEEK.

THE SIGNS SHALL BE ERECTED ON THE RIGHT-HAND SIDE OF THE ROAD/RAMP FACING TRAFFIC. THEY SHALL BE PLACED SO AS NOT TO INTERFERE WITH THE VISIBILITY OF ANY OTHER TRAFFIC CONTROL SIGNS. ON ROADWAYS, THEY SHOULD BE ERECTED AT OR NEAR THE POINT OF CLOSURE. THE SIGNS MAY BE ERECTED ANYWHERE ON RAMPS AS LONG AS THEY ARE VISIBLE TO THE MOTORISTS USING THE RAMP. ON ENTRANCE RAMPS. THE SIGN SHALL BE ERECTED WELL IN ADVANCE OF THE MERGE AREA TO AVOID DISTRACTING MOTORISTS.

NOTICE OF	CLOSURE SIG	ON TIME TABLE
ITEM	DURATION OF CLOSURE	SIGN DISPLAYED TO PUBLIC
	>= 2 WKS	14 CALENDAR DAYS PRIOR TO CLOSURE
RAMP & ROAD CLOSURES	> 12 HRS & < 2 WKS	7 CALENDAR DAYS PRIOR TO CLOSURE
	< 12 HRS	2 BUSINESS DAYS PRIOR TO CLOSURE

THE SIGN SHALL DISPLAY THE DATE OF THE CLOSURE IN MMM-DD FORMAT AND THE NUMBER OF DAYS OF THE CLOSURE. THE LAST LINE OF THE W20-H13 SIGN LISTS A PHONE NUMBER WHICH A MOTORIST MAY CALL FOR ADDITIONAL INFORMATION. THIS IS TO BE A SPECIFIC OFFICE WITHIN THE DISTRICT RATHER THAN THE GENERAL SWITCHBOARD NUMBER.

SR 235 WILL BE CLOSED MMM-DD FOR 75 DAYS INFO: 1-888-200-9919

RAMP WILL BE CLOSED MMM-DD FOR 75 DAYS INFO: 1-888-200-9919

W20-H13-60

W20-H13-60

LENGTH AND DURATION OF LANE CLOSURES AND RESTRICTIONS SHALL BE AT THE APPROVAL OF THE ENGINEER. IT IS THE INTENT TO MINIMIZE THE IMPACT TO THE TRAVELING PUBLIC. LANE CLOSURES OR RESTRICTIONS OVER SEGMENTS OF THE PROJECT IN WHICH NO WORK IS ANTICIPATED WITHIN A REASONABLE TIME FRAME, AS DETERMINED BY THE ENGINEER, SHALL NOT BE PERMITTED. THE LEVEL OF UTILIZATION OF MAINTENANCE OF TRAFFIC DEVICES SHALL BE COMMENSURATE WITH THE WORK IN PROGRESS.

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH C&MS 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC. UNLESS SEPARATELY ITEMIZED IN THE PLAN.

FLOODLIGHTING

FLOODLIGHTING OF THE WORK SITE FOR OPERATIONS CONDUCTED DURING NIGHTTIME PERIODS SHALL BE ACCOMPLISHED SO THAT THE LIGHTS DO NOT CAUSE GLARE TO THE DRIVERS ON THE ROADWAY. TO ENSURE THE ADEQUACY OF THE FLOODLIGHT PLACEMENT, THE CONTRACTOR AND THE ENGINEER SHALL DRIVE THROUGH THE WORK SITE EACH NIGHT WHEN THE LIGHTING IS IN PLACE AND OPERATIVE PRIOR TO COMMENCING ANY WORK. IF GLARE IS DETECTED, THE LIGHT PLACEMENT AND SHIELDING SHALL BE ADJUSTED TO THE SATISFACTION OF THE ENGINEER BEFORE WORK PROCEEDS.

PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC.

NOTIFICATION OF TRAFFIC RESTRICTIONS

THROUGHOUT THE DURATION OF THE PROJECT, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IN WRITING OF ALL TRAFFIC RESTRICTIONS AND UPCOMING MAINTENANCE OF TRAFFIC CHANGES. THE CONTRACTOR SHALL ENSURE THE WRITTEN NOTIFICATION IS SUBMITTED IN A TIMELY MANNER TO ALLOW THE PROJECT ENGINEER TO MEET THE REQUIRED TIME FRAMES SET FORTH IN THE TABLE BELOW TO INFORM THE SPECIAL HAULING PERMITS SECTION (Hauling.Permits@dot.ohio.gov) AND THE D7 PUBLIC INFORMATION OFFICER. THIS NOTIFICATION SHALL BE RECEIVED BY THE PROJECT ENGINEER PRIOR TO THE PHYSICAL SETUP OF ANY APPLICABLE SIGNS OR MESSAGE BOARDS.

INFORMATION SHOULD INCLUDE, BUT IS NOT LIMITED TO, ALL CONSTRUCTION ACTIVITIES THAT IMPACT OR INTERFERE WITH TRAFFIC AND SHALL LIST THE SPECIFIC LOCATION, TYPE OF WORK. ROAD STATUS. DATE AND TIME OF RESTRICTION, DURATION OF RESTRICTION, NUMBER OF LANES MAINTAINED, NUMBER OF LANES CLOSED, MINIMUM VERTICAL CLEARANCE, MINIMUM WIDTH OF DRIVABLE PAVEMENT, DETOUR ROUTES, IF APPLICABLE, AND ANY OTHER INFORMATION REQUESTED BY THE PROJECT ENGINEER.

NOT.	IFICATION TIME	E TABLE
ITEM	DURATION OF CLOSURE	NOTICE DUE TO D7 PIO
	>= 2 WKS	21 CALENDAR DAYS PRIOR TO CLOSURE
RAMP & ROAD CLOSURES	> 12 HRS & < 2 WKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	< 12 HRS	4 BUSINESS DAYS PRIOR TO CLOSURE
LANE CLOSURES	>= 2 WKS	14 CALENDAR DAYS PRIOR TO CLOSURE
RESTRICTIONS	< 2 WKS	5 BUSINESS DAYS PRIOR TO CLOSURE
START OF CONSTRUCTION & TRAFFIC PATTERN CHANGES	N/A	14 CALENDAR DAYS PRIOR TO IMPLEMENTATION

ANY UNFORESEEN CONDITIONS NOT SPECIFIED IN THE PLANS REQUIRING TRAFFIC RESTRICTIONS SHALL ALSO BE REPORTED TO THE PROJECT ENGINEER USING THE NOTIFICATION TIME TABLE.

DUST CONTROL

THE CONTRACTOR SHALL FURNISH AND APPLY WATER FOR DUST CONTROL AS DIRECTED BY THE ENGINEER. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED FOR DUST CONTROL PURPOSES:

ITEM 616. WATER

1 M. GAL

DETOUR SIGNING

THE CONTRACTOR SHALL PROVIDE THE DETOUR SIGNING AS SHOWN ON SHEET 7 AND 9. PAYMENT FOR ALL LABOR, EQUIPMENT, AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT FOR ITEM 614 DETOUR SIGNING.

COORDINATION OF WORK:

MOT-235-1.77R PID 97242. DOT-BH-FY18 PID 95833. AND CLA-70-3.10/3.12 PID 91731 PROJECT NO. 170040

THE CONTRACTOR IS ADVISED THAT CONSTRUCTION PROJECTS WITHIN OR NEAR THE WORK LIMITS OF THIS PLAN MAY IMPACT THE PROJECT SCHEDULE, SEQUENCE OF CONSTRUCTION AND/OR TRAFFIC CONTROL BETWEEN ADJACENT/OVERLAPPING WORKZONES. THE CONTRACTOR IS REQUIRED TO COORDINATE ALL MAINTENANCE OF TRAFFIC OPERATIONS WITH ADJACENT CONSTRUCTION PROJECTS. THIS IS A REQUIREMENT PER CMS 105.08.

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ITEM 614, PORTABLE CHANGEABLE MESSAGE SIGNS, AS PER PLAN

THE CONTRACTOR SHALL FURNISH, INSTALL, MAINTAIN AND REMOVE. WHEN NO LONGER NEEDED. A CHANGEABLE MESSAGE SIGN. THE SIGN SHALL BE OF A TYPE SHOWN ON A LIST OF APPROVED PCMS UNITS AVAILABLE ON THE OFFICE OF MATERIALS MANAGEMENT WEB PAGE. THE LIST CONTAINS CLASS A AND B UNITS WITH MINIMUM LEGIBILITY DISTANCES OF 800 FEET AND 650 FEET. RESPECTIVELY.

EACH SIGN SHALL BE TRAILER-MOUNTED AND EQUIPPED WITH A FUNCTIONAL DIMMING MECHANISM, TO DIM THE SIGN DURING DARKNESS, AND A TAMPER AND VANDAL PROOF ENCLOSURE. EACH SIGN SHALL BE PROVIDED WITH APPROPRIATE TRAINING AND OPERATION INSTRUCTIONS TO ENABLE ON-SITE PERSONNEL TO OPERATE AND TROUBLESHOOT THE UNIT. THE SIGN SHALL ALSO BE CAPABLE OF BEING POWERED BY AN ELECTRICAL SERVICE DROP FROM A LOCAL UTILITY COMPANY. THE PCMS SHALL BE DELINEATED IN ACCORDANCE WITH C&MS 614.03.

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THE PROBABLE PCMS LOCATIONS ARE LISTED BELOW:

1 PCMS SIGN (LOCATED ON N.B. S.R. 235 FOR NOTIFICATION OF CLOSURE OF N.B. S.R. 235)

1 PCMS SIGN (LOCATED TO NOTIFY OF THE CLOSURE OF THE E.B. I-70 TO N.B. S.R. 235 RAMP)

1 PCMS SIGN (LOCATED TO NOTIFY OF THE CLOSURE OF THE W.B. I-70 TO S.B. S.R. 235/4 RAMP FOR BEAM REMOVAL/BEAM INSTALLATION)

PLACEMENT, OPERATION, MAINTENANCE AND ALL ACTIVATION OF THE SIGNS BY THE CONTRACTOR SHALL BE AS DIRECTED BY THE ENGINEER. THE PCMS SHALL BE LOCATED IN A HIGHLY VISIBLE POSITION YET PROTECTED FROM TRAFFIC. THE CONTRACTOR SHALL, AT THE DIRECTION OF THE ENGINEER, RELOCATE THE PCMS TO IMPROVE VISIBILITY OR ACCOMMODATE CHANGED CONDITIONS. WHEN NOT IN USE, THE PCMS SHALL BE TURNED OFF. ADDITIONALLY, WHEN NOT IN USE FOR EXTENDED PERIODS OF TIME, THE PCMS SHALL BE TURNED AWAY FROM ALL TRAFFIC.

THE ENGINEER SHALL BE PROVIDED ACCESS TO EACH SIGN UNIT AND SHALL BE PROVIDED WITH APPROPRIATE TRAINING AND OPERATION INSTRUCTIONS TO ENABLE ODOT PERSONNEL TO OPERATE AND TROUBLESHOOT THE UNIT, AND TO REVISE SIGN MESSAGES, IF NECESSARY.

THE CONTRACTOR SHALL IMPLEMENT A SYSTEM WHEREBY CHANGEABLE MESSAGES WILL BE IMPLEMENTED WITHIN 2 HOURS FOLLOWING TELEPHONE NOTIFICATION FROM THE PROJECT ENGINEER TO A DESIGNATED PHONE.

ALL MESSAGES TO BE DISPLAYED ON THE SIGN WILL BE PROVIDED BY THE ENGINEER. A LIST OF ALL REQUIRED PRE-PROGRAMMED MESSAGES WILL BE GIVEN TO THE CONTRACTOR AT THE PROJECT PRE-CONSTRUCTION CONFERENCE. THE SIGN SHALL HAVE THE CAPABILITY TO STORE UP TO 99 MESSAGES. MESSAGE MEMORY OR PRE-PROGRAMMED DISPLAYS SHALL NOT BE LOST AS A RESULT OF POWER FAILURES TO THE ON-BOARD COMPUTER. THE SIGN LEGEND SHALL BE CAPABLE OF BEING CHANGED IN THE FIELD. THREE-LINE PRESENTATION FORMATS WITH UP TO SIX MESSAGE PHASES SHALL BE SUPPORTED. PCMS FORMAT SHALL PERMIT THE COMPLETE MESSAGE FOR EACH PHASE TO BE READ AT LEAST TWICE. THE PCMS SHALL CONTAIN AN ACCURATE CLOCK AND PROGRAMMING LOGIC WHICH WILL ALLOW THE SIGN TO BE ACTIVATED, DEACTIVATED OR MESSAGES CHANGED AUTOMATICALLY AT DIFFERENT TIMES OF THE DAY FOR DIFFERENT DAYS OF THE WEEK.

THE PCMS SHALL CONTAIN A CELLULAR TELEPHONE DATA LINK WHICH WILL (IN ACTIVE CELLULAR PHONE AREAS) ALLOW REMOTE SIGN ACTIVATION, MESSAGE CHANGES, MESSAGE ADDITIONS AND REVISIONS TO TIME OF DAY PROGRAMS. THE SYSTEM SHALL ALSO PERMIT VERIFICATION OF CURRENT AND PROGRAMMED MESSAGES. ONE REMOTE DATA INPUT DEVICE (LAPTOP COMPUTER PLUS MODEM OR EQUIVALENT) SHALL BE FURNISHED FOR USE BY THE DISTRICT TRAFFIC ENGINEER, OR EQUIVALENT, AND SHALL BE INSURED AGAINST THEFT.

THE PCMS UNIT SHALL BE MAINTAINED IN GOOD WORKING ORDER BY THE CONTRACTOR IN ACCORDANCE WITH THE PROVISIONS OF C&MS 614.07. THE CONTRACTOR SHALL, PRIOR TO ACTIVATING THE UNIT. MAKE ARRANGEMENTS. WITH AN AUTHORIZED SERVICE AGENT FOR THE PCMS. TO ASSURE PROMPT SERVICE IN THE EVENT OF FAILURE. ANY FAILURE SHALL NOT RESULT IN THE SIGN BEING OUT OF SERVICE FOR MORE THAN 12 HOURS, INCLUDING WEEKENDS. FAILURE TO COMPLY MAY RESULT IN AN ORDER TO STOP WORK AND OPEN ALL TRAFFIC LANES AND/OR IN THE DEPARTMENT TAKING APPROPRIATE ACTION TO SAFELY CONTROL TRAFFIC. THE ENTIRE COST TO CONTROL TRAFFIC, ACCRUED BY THE DEPARTMENT DUE TO THE CONTRACTOR'S NONCOMPLIANCE, WILL BE DEDUCTED FROM MONEYS DUE, OR TO BECOME DUE THE CONTRACTOR ON HIS CONTRACT.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR 24-HOUR-PER-DAY OPERATION AND MAINTENANCE OF THESE SIGNS ON THE PROJECT FOR THE DURATION OF THE PHASES WHEN THE PLAN REQUIRES THEIR USE.

PAYMENT FOR THE ABOVE DESCRIBED ITEM SHALL BE AT THE CONTRACT UNIT PRICE. PAYMENT SHALL INCLUDE ALL LABOR, MATERIALS, EQUIPMENT, FUELS, LUBRICATING OILS, SOFTWARE, HARDWARE AND INCIDENTALS TO PERFORM THE ABOVE DESCRIBED

ITEM 614, PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN 3 SIGN MONTH

ASSUMING 3 PCMS SIGNS FOR 1 MONTH

ITEM 614 - LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE DURING CONSTRUCTION OPERATIONS

USE OF LAW ENFORCEMENT OFFICERS (LEOS) BY CONTRACTORS OTHER THAN THE USES SPECIFIED BELOW WILL NOT BE PER-MITTED AT PROJECT COST. LEOS SHOULD NOT BE USED WHERE THE OMUTCD INTENDS THAT FLAGGERS BE USED.

IN ADDITION TO THE REQUIREMENTS OF C&MS 614 AND THE OMUTCD, A UNIFORMED LEO WITH AN OFFICIAL PATROL CAR (CAR WITH TOP-MOUNTED EMERGENCY FLASHING LIGHTS AND COMPLETE MARKINGS OF THE APPROPRIATE LAW ENFORCEMENT AGENCY) SHALL BE PROVIDED FOR THE FOLLOWING TRAFFIC CONTROL TASKS:

DURING THE ENTIRE ADVANCE PREPARATION AND CLOSURE SEQUENCE WHERE COMPLETE BLOCKAGE OF TRAFFIC IS REQUIRED.

IN ADDITION TO THE REQUIREMENT OF C&MS 614 AND THE OMUTCD. A UNIFORMED LEO WITH AN OFFICIAL PATROL CAR (CAR WITH TOP-MOUNTED EMERGENCY FLASHING LIGHTS AND COMPLETE MARKINGS OF THE APPROPRIATE LAW ENFORCEMENT AGENCY) SHOULD BE PROVIDED FOR THE FOLLOWING TRAFFIC CONTROL TASKS AS APPROVED BY THE ENGINEER:

FOR LANE CLOSURES: DURING INITIAL SET-UP PERIODS, TEAR DOWN PERIODS, SUBSTANTIAL SHIFTS OF A CLOSURE POINT OR WHEN NEW LANE CLOSURE ARRANGEMENTS ARE INITIATED FOR LONG-TERM LANE CLOSURES/SHIFTS (FOR THE FIRST AND LAST DAY OF MAJOR CHANGES IN TRAFFIC CONTROL SETUP).

IN GENERAL, LEOS SHOULD BE POSITIONED IN ADVANCE OF AND ON THE SAME SIDE AS THE LANE RESTRICTION OR AT THE POINT OF ROAD CLOSURE IN WORK ZONES.

LEOS SHOULD NOT FORGO THEIR TRAFFIC CONTROL RESPONSIBILITIES TO APPREHEND MOTORISTS FOR ROUTINE TRAFFIC VIOLATIONS. HOWEVER, IF A MOTORIST'S ACTIONS ARE CONSIDERED TO BE RECKLESS, THEN PURSUIT OF THE MOTORIST IS APPROPRIATE.

THE LEOS WORK AT THE DIRECTION OF THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR SECURING THE SERVICES OF THE LEOS WITH THE APPROPRIATE AGENCIES AND COMMUNICATING THE INTENTIONS OF THE PLANS WITH RESPECT TO DUTIES OF THE LEOS. THE ENGINEER SHALL HAVE FINAL CONTROL OVER THE LEOS' DUTIES AND PLACEMENT, AND WILL RESOLVE ANY ISSUES THAT MAY ARISE BETWEEN THE TWO PARTIES.

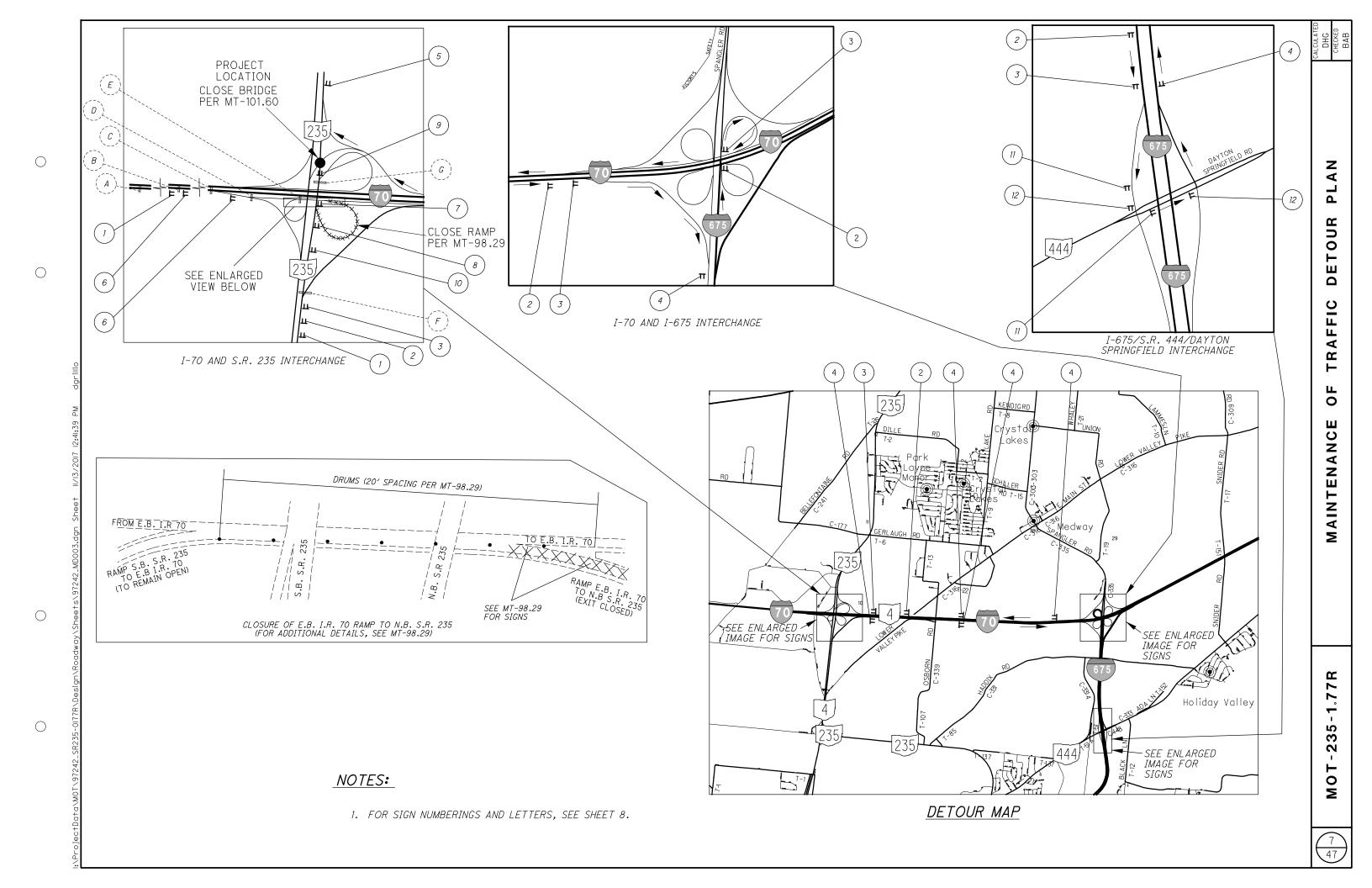
THE LEO SHALL REPORT IN TO THE CONTRACTOR PRIOR TO THE START OF THE SHIFT, IN ORDER TO RECEIVE INSTRUCTIONS REGARDING SPECIFIC WORK ASSIGNMENTS DURING HIS/HER SHIFT. THE LEO IS EXPECTED TO STAY AT THE PROJECT SITE FOR THE ENTIRE DURATION OF HIS/HER SHIFT. THE LEO SHALL REPORT TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT. ONCE THE LEO HAS COMPLETED THE DUTIES DESCRIBED ABOVE AND STILL HAS TIME REMAINING ON HIS/HER SHIFT. THE LEO MAY BE ASKED TO PATROL THROUGH THE WORK ZONE (WITH FLASHING LIGHTS OFF) OR BE PLACED AT A LOCATION TO DETER MOTORISTS FROM SPEEDING. SHOULD IT BE NECESSARY TO LEAVE THE PROJECT SITE, THE LEO SHALL NOTIFY THE ENGINEER. THE CONTRACTOR SHALL PROVIDE THE LEO WITH A TWO-WAY COMMUNICATION DEVICE WHICH SHALL BE RETURNED TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT.

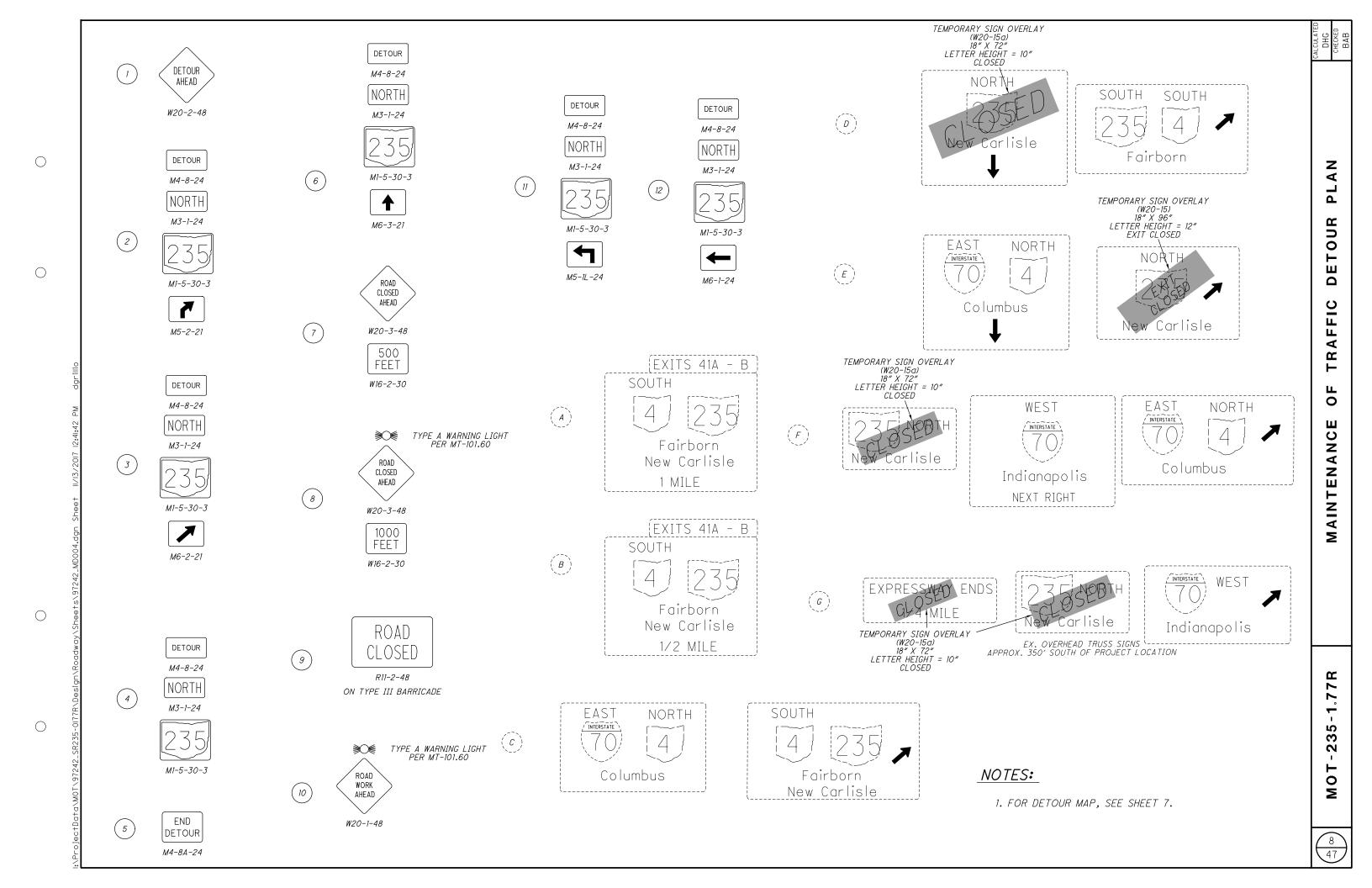
LEOS (WITH PATROL CAR) REQUIRED BY THE TRAFFIC MAINTENANCE TASKS ABOVE SHALL BE PAID FOR ON A UNIT PRICE (HOURLY) BASIS UNDER ITEM 614, LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY.

ITEM 614, LAW ENFORCEMENT OFFICER 16 HOURS WITH PATROL CAR FOR ASSISTANCE

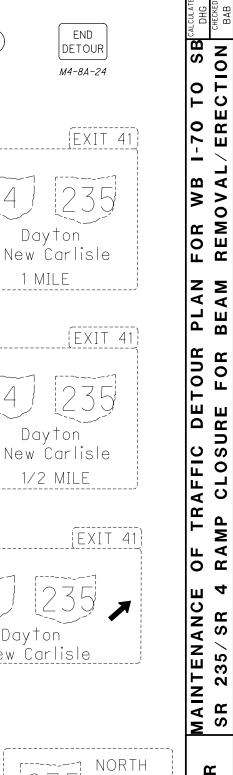
THE HOURS PAID SHALL INCLUDE ANY MINIMUM SHOW-UP TIME REQUIRED BY THE LAW ENFORCEMENT AGENCY INVOLVED.

ANY ADDITIONAL COSTS (ADMINISTRATIVE OR OTHERWISE) INCURRED BY THE CONTRACTOR TO OBTAIN THE SERVICES OF AN LEO ARE INCLUDED WITH THE BID UNIT PRICE FOR ITEM 614. LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE.







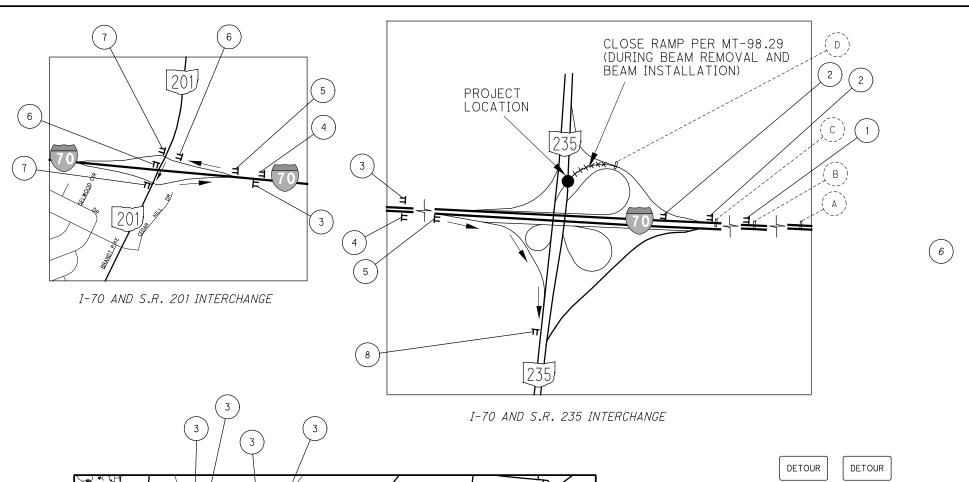


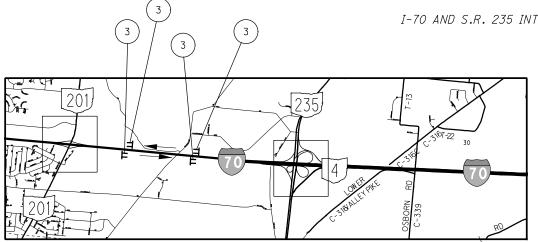


TEMPORARY SIGN OVERLAY (W20-15) 18" × 96"

LETTER HEIGHT = 12" EXIT CLOSED

- 1. DETOUR SHOWN ON THIS SHEET IS TO BE USED DURING THE NIGHT TIME CLOSURE OF THE WB IR 70 TO SB SR 4/235 RAMP (RAMP UNDER THE BRIDGE) DURING THE BEAM REMOVAL/BEAM INSTALLATION.
- 2. DETOURS FOR S.R. 235 NORTH AND THE I-70 EAST TO S.R. 235 NORTH RAMP ARE SHOWN ON OTHER SHEETS.

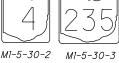


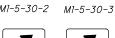






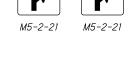
M4-8-24

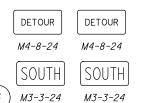


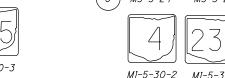


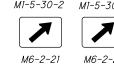


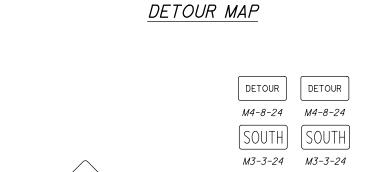


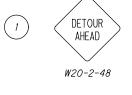










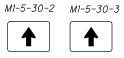


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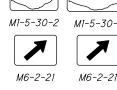
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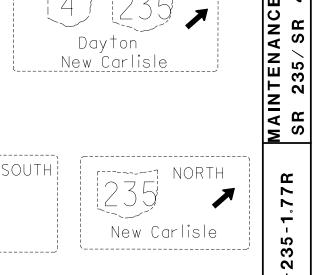
M6-3-21











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M4-8-24









M6-1-21 M6-1-21

DETOUR

M4-8-24

SOUTH

M3-3-24

M1-5-30-2

M5-1-21

DETOUR

M4-8-24

SOUTH

M3-3-24

(D)

DETOUR

M4-8-24

SOUTH

M3-3-24

M1-5-30-3

M5-1-21

DETOUR

M4-8-24

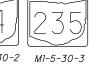
SOUTH

M3-3-24

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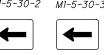
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M1-5-30-3











M3-3-24 M3-3-24

DETOUR

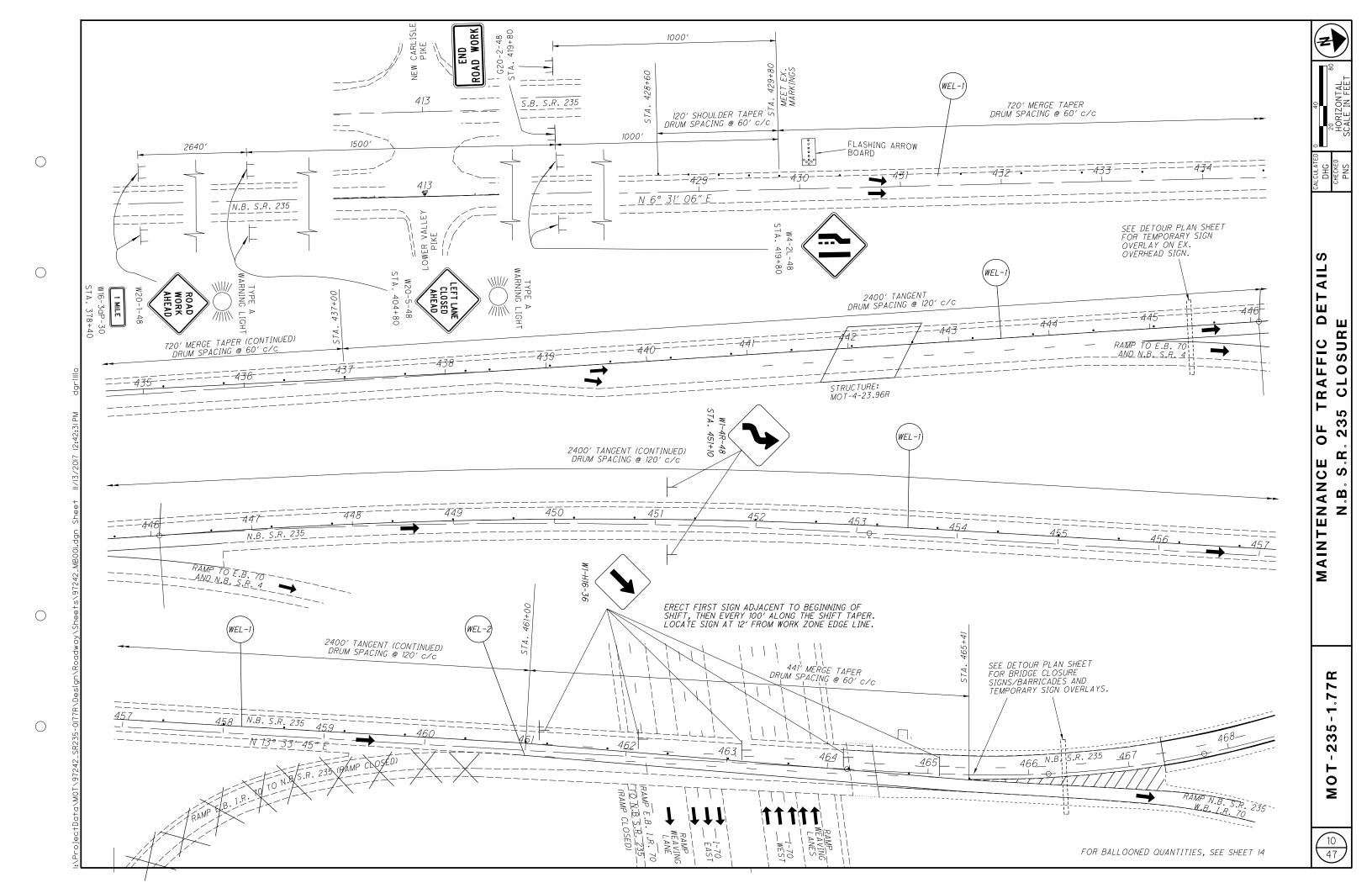
M4-8-24

SOUTH

DETOUR

M4-8-24

SOUTH



				S	HEET	NUM.	•	1	1	ī	PART.	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET	
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																ROADWAY		
											LS	201	11000	LS		CLEARING AND GRUBBING	_	+
	1	316									1,316	202	23010	1,316	SY	PAVEMENT REMOVED, ASPHALT		4
		69									369	202	38000	369	FT	GUARDRAIL REMOVED		
		3									2	202 202	42001 47000	3		ANCHOR ASSEMBLY REMOVED, TYPE A, AS PER PLAN BRIDGE TERMINAL ASSEMBLY REMOVED	4	\dashv
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	1,	677									1,677	204	10000	1,677	SY	SUBGRADE COMPACTION		_
	1	79									179	606	15100	179		GUARDRAIL, TYPE MGS WITH LONG POSTS		_
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		1									1	606	26550	1	EACH	ANCHOR ASSEMBLY, MGS TYPE T		
		2									2	606	35002	2	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1		
		1									1	606	35102	1	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 2		_
																EROSION CONTROL		
		29									29	601	21060	29	SY	TIED CONCRETE BLOCK MAT, TYPE 2	_	
				1							801 40	659 659	10000 14000	801 40		SEEDING AND MULCHING REPAIR SEEDING AND MULCHING	_	_
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5											4.3	659	35000	4.3	MGAL	WATER		_
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																DRAINAGE		_
190	10										190	605	31100	190	FT	AGGREGATE DRAINS		
																PAVEMENT		_
	3	05				+					305	302	46000	305	CY	ASPHALT CONCRETE BASE, PG64-22	+	_
	2	70									270	304	20000	270	CY	AGGREGATE BASE		_
		78									78	407						_
		10									10	407	10000	78		TACK COAT		_
_		18									118	442	20001	118	CY	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (448), AS PER PLAN PG64-22	3	_
		38									38	609	24510	38	FT	CURB, TYPE 4-C		_
																TRAFFIC CONTROL		_
		10									10	626	00102	10	EACH	BARRIER REFLECTOR, TYPE 1 (ONE-WAY)		_
		10									10	626 626	00102	10		BARRIER REFLECTOR, TYPE 2 (ONE-WAY)		_
			49								49	630	03100	49	FT	GROUND MOUNTED SUPPORT, NO. 3 POST		_
			2								2	630	80101	2	SF	SIGN, FLAT SHEET, AS PER PLAN	3	_
			3								2	630 630	85100 86002	3		REMOVAL OF GROUND MOUNTED SIGN AND REERECTION REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL		_
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				SHEET N	UM.	 		PART.	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET	ALCULATE CWW
	5	6	29					01/S<2/BR	1 1 L W	EXT	TOTAL	ONT	BESSIII FISH	NO.	CALC
													STRUCTURE REPAIR (MOT-235-0177R)		1
			LS					LS	202	11203	LS		PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN	28	\dashv
			224					224	202	22900	224	SY	APPROACH SLAB REMOVED		1
			804					804	202	23500	804		WEARING COURSE REMOVED		
			267					267	202	75260	267	FT	VANDAL PROTECTION FENCE REMOVED]
			1.6					1.0		047.00	1.6		LINOL LOCATETE EVALVATION		4
			LS					LS	503	21300	LS		UNCLASSIFIED EXCAVATION		-
			34,737					34,737	509	10000	34,737	LB	EPOXY COATED REINFORCING STEEL		1
			.,,,,,,,					.,,		10000	1 .,				1
			42					42	510	10000	42	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT		
			044							74040		0)/	NAMES AND ADMONTTS WITH AD ALL CURRENTING TURE		4
			211 41					211 41	511 511	31612 34450	211		CLASS QC2 CONCRETE WITH QC/QA, SUPERSTRUCTURE CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK (PARAPET)		
			41					41	511	44110	41		CLASS QC2 CONCRETE WITH QC7 QA, BRIDGE DECK (FARAFET) CLASS QC1 CONCRETE, ABUTMENT NOT INCLUDING FOOTING		-
			'					'	011	11110	1 1	01	CEASS GOLOGICE, ADDITION NOT INCLUDING LOCATION		1
			705					705	512	10100	705	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)		
			4					4	512	10600	4	FT	CONCRETE REPAIR BY EPOXY INJECTION		
			2					2	515	12041	2	EACH	PRESTRESSED CONCRETE COMPOSITE BOX BEAM BRIDGE MEMBERS, LEVEL 1, CB21-36,	29	4
			4					4	515	12041	4	EACH	AS PER PLAN (BEAM LENGTH = 43'-11 3/4") PRESTRESSED CONCRETE COMPOSITE BOX BEAM BRIDGE MEMBERS, LEVEL 1, CB21-36,	29	-
			7					1 7	313	12041	7	LACIT	AS PER PLAN (BEAM LENGTH = 44'-9 1/2")		\dashv
													AS TERT COLONIC CERCOTT TO 0 1/2 /		1
			9					9	515	12050	9	EACH	PRESTRESSED CONCRETE COMPOSITE BOX BEAM BRIDGE MEMBERS, LEVEL 1, CB21-48		
													(BEAM LENGTH = 43'-11 3/4")		
			18					18	515	12050	18		PRESTRESSED CONCRETE COMPOSITE BOX BEAM BRIDGE MEMBERS, LEVEL 1, CB21-48		4
													(BEAM LENGTH = 44'-9 1/2")		-
			16					16	516	13600	16	SF	1" PREFORMED EXPANSION JOINT FILLER		┨
			20					20	516	13900	20		2" PREFORMED EXPANSION JOINT FILLER		┨
			119					119	516	14020	119		SEMI-INTEGRAL ABUTMENT EXPANSION JOINT SEAL		1
			89					89	516	31011	89		2" DEEP JOINT SEALER, AS PER PLAN	28	1
			66					66	516	41100	66		1/8" PREFORMED BEARING PAD		4
			132					132	516	43100	132	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES ONLY (NEOPRENE) (5" X 12" X 1")		4
			47					47	518	21200	47	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC		┨
			122					122	518	40000	122		6" PERFORATED CORRUGATED PLASTIC PIPE		1
			30					30	518	40010	30	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS		
											ļ <u> </u>				4
			145					145	526 526	10011 90010	145		REINFORCED CONCRETE APPROACH SLABS WITH QC/QA (T=12"), AS PER PLAN	28	-
			92		+			92	520	90010	92	FT	TYPE A INSTALLATION		-
			170					170	607	39900	170	FT	VANDAL PROTECTION FENCE, 6' STRAIGHT, COATED FABRIC		\dashv
													, ,		1
			23					23	844	10001	23	SF	CONCRETE PATCHING WITH GALVANIC ANODE PROTECTION, AS PER PLAN	28	4
													MAINTENANCE OF TRAFFIC		-
													MAINTENNIOL OF TIMITIA		1
		16						16	614	11110	16	HOUR	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE		┸
	LS							LS	614	12420	LS	CNILAT	DETOUR SIGNING		4
		3						3 0.77	614	18601	0.77		PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN	6	-
								0.17	614	22210	0.11	MILE	WORK ZONE EDGE LINE, CLASS I, 6", 740.06, TYPE I		\dashv
	1							1 1	616	10000	1 1	MGAL	WATER		1
															1
													INCIDENTALS		4
								1.5	C14	11000	LS		MAINTAINING TRAFFIC		4
								LS	614	11000	LS		MAINIAINING TRAFFIC		\dashv
								3	619	16010	3	MNTH	FIELD OFFICE, TYPE B		1
													·		
								LS	623	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING		╛
		-							004	10000	1.0		NODII IZATION		4
		-			1			LS	624	10000	LS		MOBILIZATION		L
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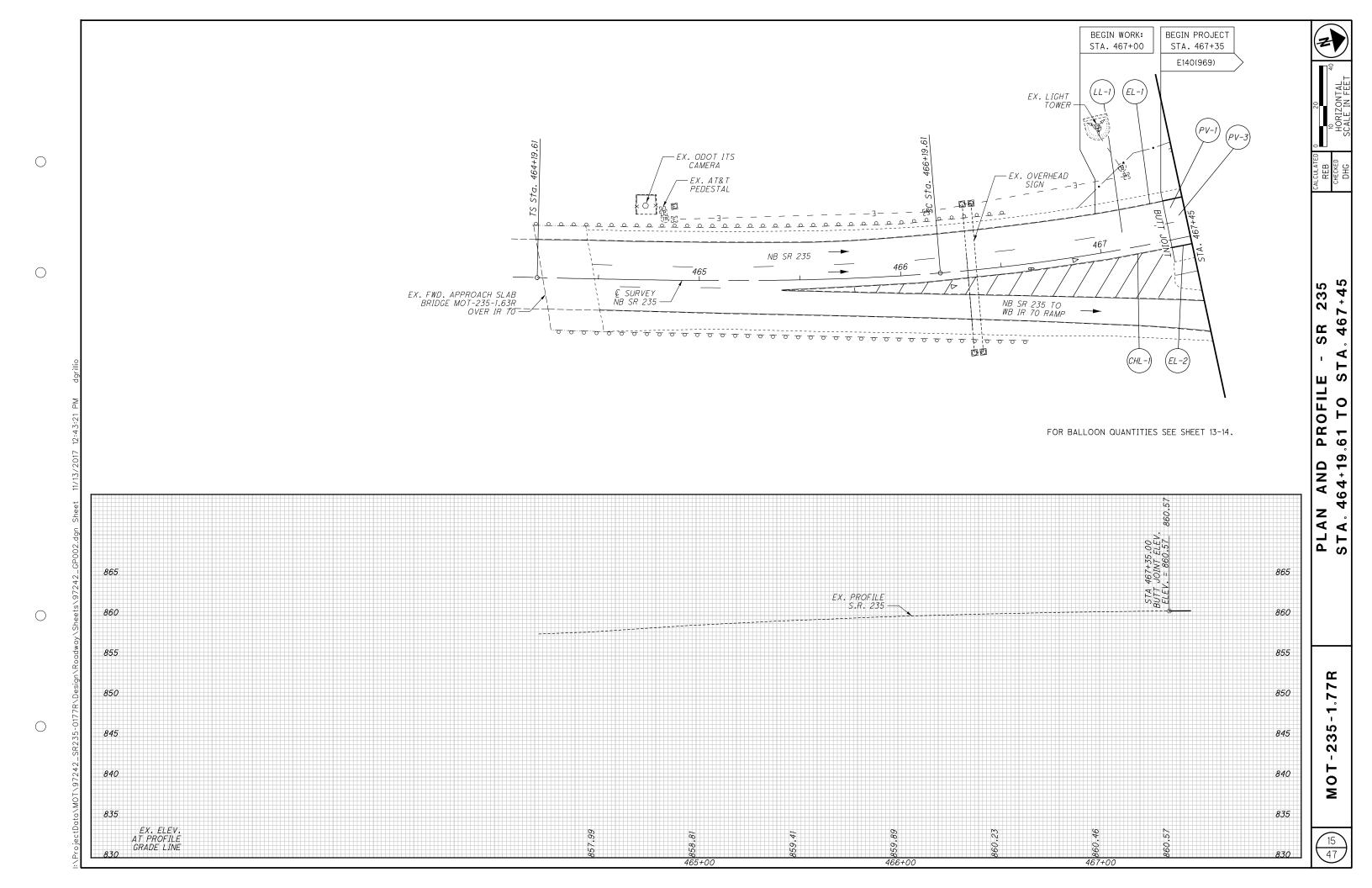
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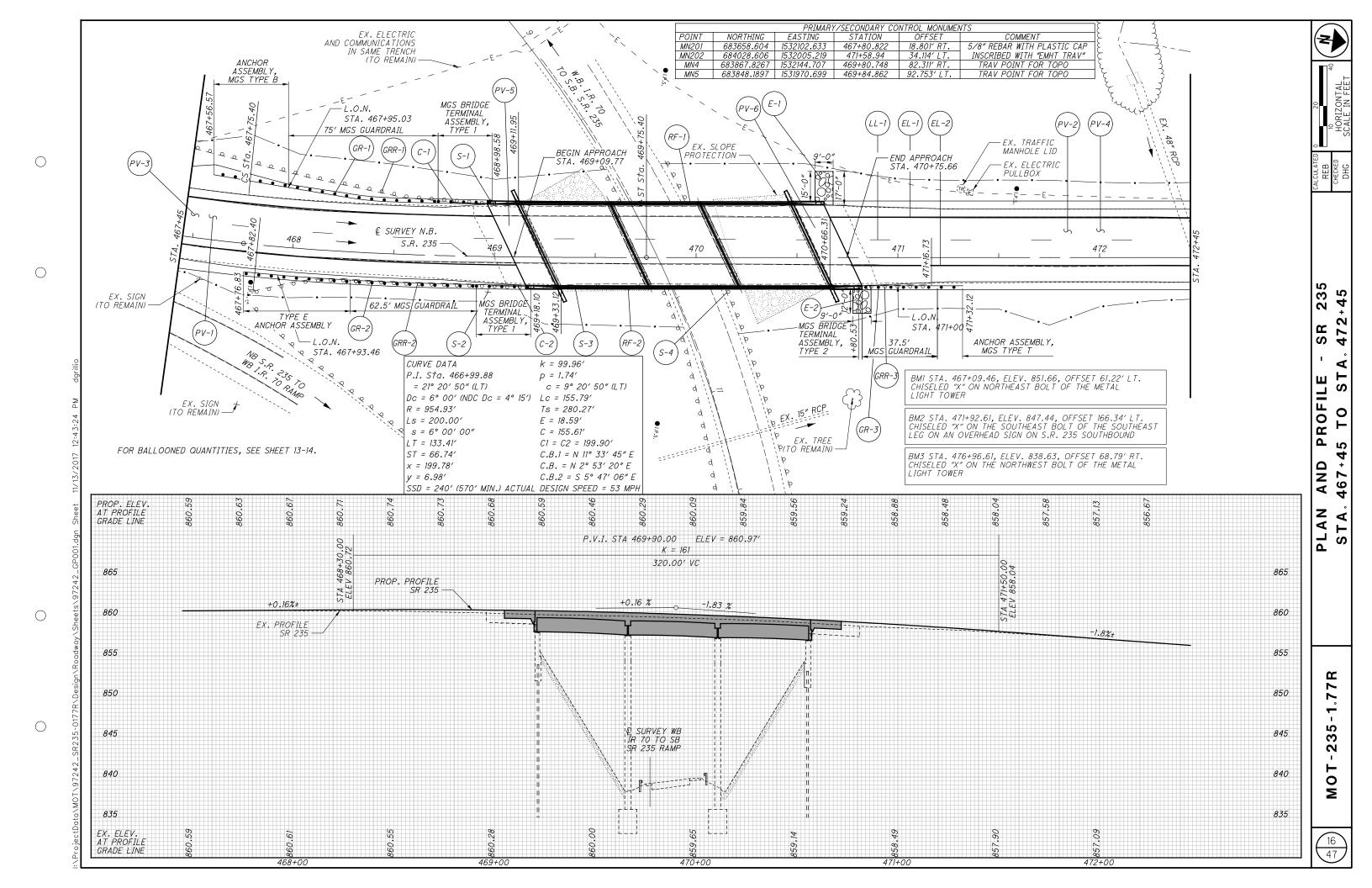
					202	202	202	202	204	302 27	304	407	442	س 601	606 9	606	606	606	606	606	609	626	626	626	626
REF NO.	SHEET NO.	STATION	то	STATION	GUARDRAIL REMOVED	ANCHOR ASSEMBLY REMOVED, TYPE A, AS PER PLAN	BRIDGE TERMINAL ASSEMBLY REMOVED	PAVEMENT REMOVED, ASPHALT	SUBGRADE COMPACTION	ASPHALT CONCRETE BASE, PG64-2	AGGREGATE BASE	TACK COAT (0.055 GAL/SY)	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (448), AS PER PLAN	CONCRETE BLOCK MAT, TYP	GUARDRAIL, TYPE MGS WITH LONG POSTS	ANCHOR ASSEMBLY, MGS TYPE B	ANCHOR ASSEMBLY, MGS TYPE E	ANCHOR ASSEMBLY, MGS TYPE T	BRIDGE TERMINAL ASSEMBLY	BRIDGE TERMINAL ASSEMBLY TYPE 2	CURB, TYPE 4-C	BARRIER REFLECTOR, TYPE KONE-WAY) YELLOW	BARRIER REFLECTOR, TYPE 11ONE- WAY) WHITE	BARRIER REFLECTOR, TYPE 2(ONE-WAY) YELLOW	BARRIER REFLECTOR, TYPE 2(ONE-WAY) WHITE
					FT				CV		CV	CAL		TIED					WGS	WGS					
			ТО		FT	EACH	EACH	SY	SY	CY	CY	GAL	CY	SY	FT	EACH	EACH	EACH	EACH	EACH	FT	EACH	EACH	EACH	EACH
V-1	15,16	467+35.00		468+99.80 LT/RT				631.26																	
V-2 V-3	16,17 15,16	470+84.68 467+35.00		472+50 LT/RT 469+08.84 LT/RT				684.07	741.97	147.4	119.47	37.69	57.11												
PV-4	16,17	470+75.66		472+50.00 LT/RT	-				779.67	157.13	125.57	39.63	60.04												
PV-5 PV-6	16 16	469+08.84 470+60.66		469+23.84 LT/RT 470+75.66 LT/RT					77.4		12.24														
											12122														
RR-1 GR-1	16 16	467+45.00 467+56.57		469+11.95 LT. 468+98.58 LT.		1	1								75	1			1					4	
RR-2 SR-2	16 16	467+82.40 467+76.83		469+33.12 RT. 469+18.10 RT.		1	1								62.5		1		1						4
RR-3 GR-3	16 16	470+66.31 470+80.53		471+16.73 RT. 471+32.12 RT.			1								40.625			1		1					2
0.1	10																				10				
C-1 C-2	16 16	468+77.44 468+97.56		468+96.06 LT. 469+15.61 RT.																	19 19				
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RF-1 RF-2	16 16	468+96.06 469+15.61		470+63.39 LT. 470+82.27 RT.																		5	5		
F_1	16	470+64		LT										16											
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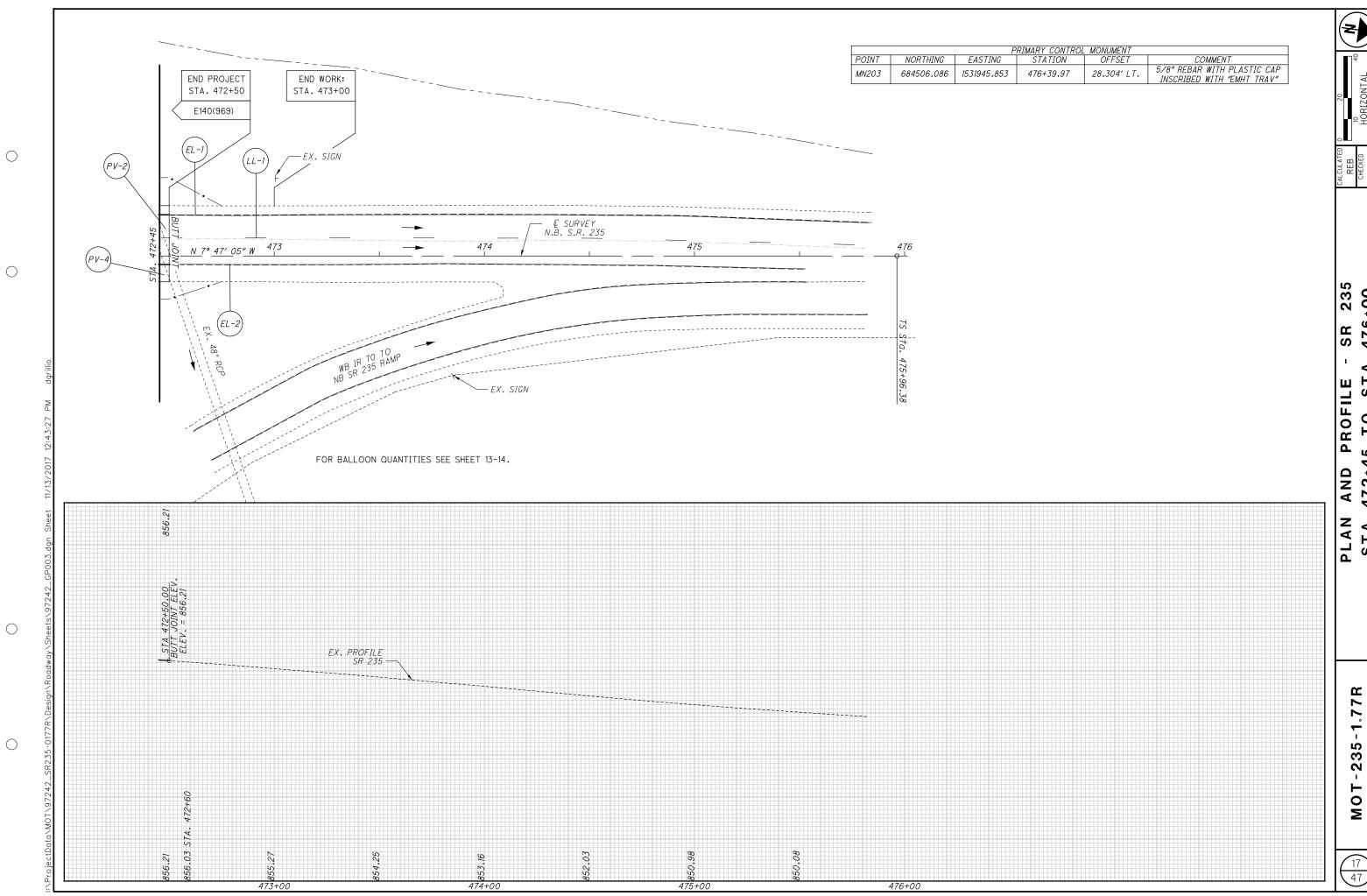
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					630	630	630	630	646	646	646	646	614				TED ;
REF NO.	SHEET NO.	STATION TO	O STATIO	N	GROUND MOUNTED SUPPORT, NO. 3 POST	유 SIGN, FLAT SHEET, AS PER PLAN	EMOVAL OF GROUND MOUNTED 空 SIGN AND REERECTION	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	EDGE LINE, 6" (YELLOW)	EDGE LINE, 6" 때 (WHITE)	THE LINE, 6"	CHANNELIZING LINE, 12"	WORK ZONE EDGE LINE, CLASS I, 6", 740.06, TYPE I (WHITE)				OF 2) CALCULATE
			0			31			WITCE	MILL	MILL	11	WILL				<u> </u>
S-1 S-2	16 16	468+98.00 468+97.00		LT.	16 16		1 1	1 2									- u
S-2	16	468+97.00		RT.	17												
S-3 S-4	16 16	469+40.00 AT GUARDRAIL, IN FRONT	OF	RT.		1 1											1 9
		EAST COLUMN OF PIER 2															1 3
CHL-1	15	467+00.00	467+35.00	RT.								35					1 3
EL-1 EL-2	15-17 15-17	467+00.00 467+00.00	473+00.00 473+00.00	LT.					0.11	0.11							;
LL-1	15-17	467+00.00	473+00.00	LT.						0.11	0.11						<u> </u>
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VEL-1	10	429+80	465+41										0.68				
IEL-2	10	460+94	465+38										0.09				-
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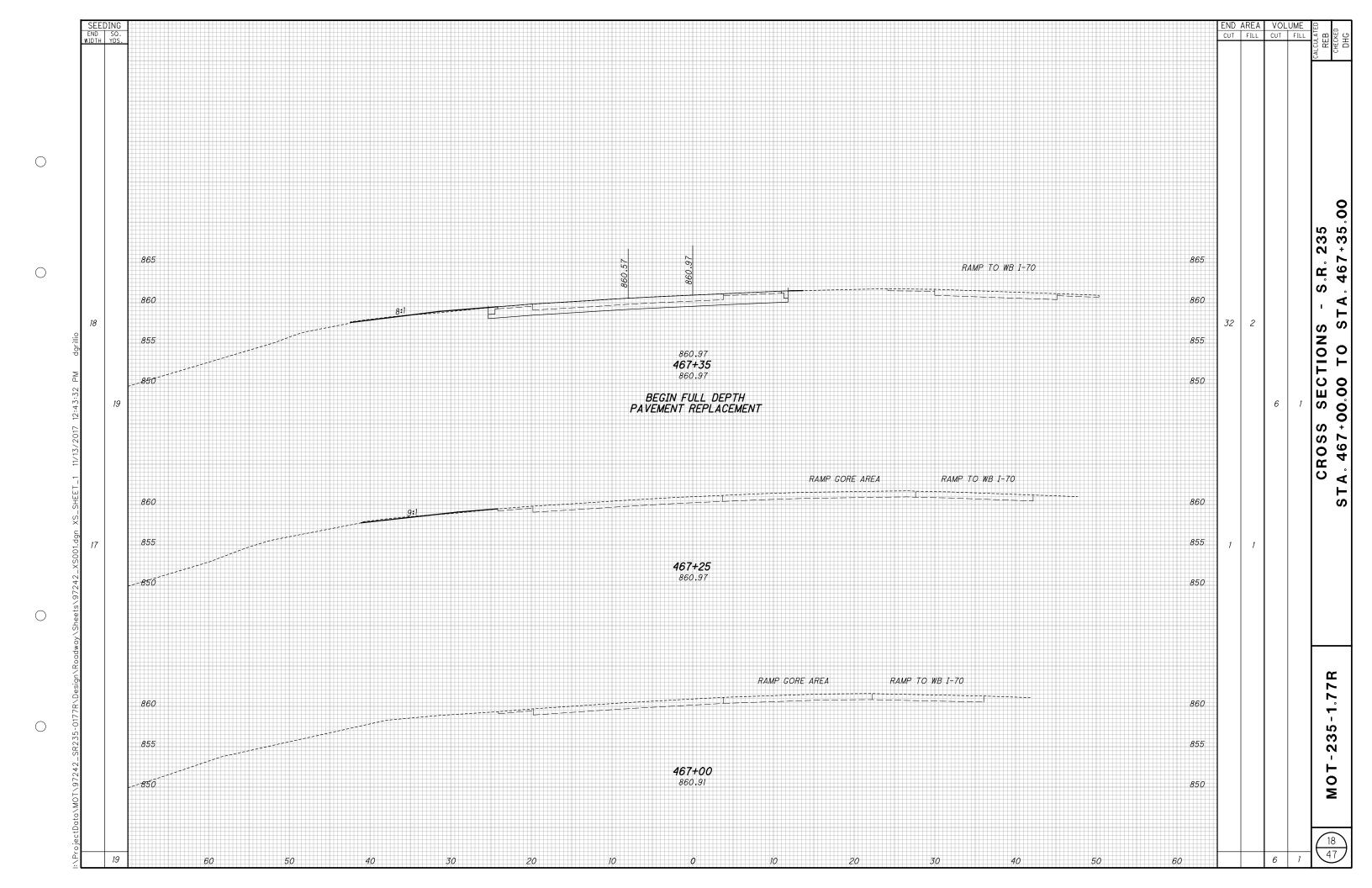


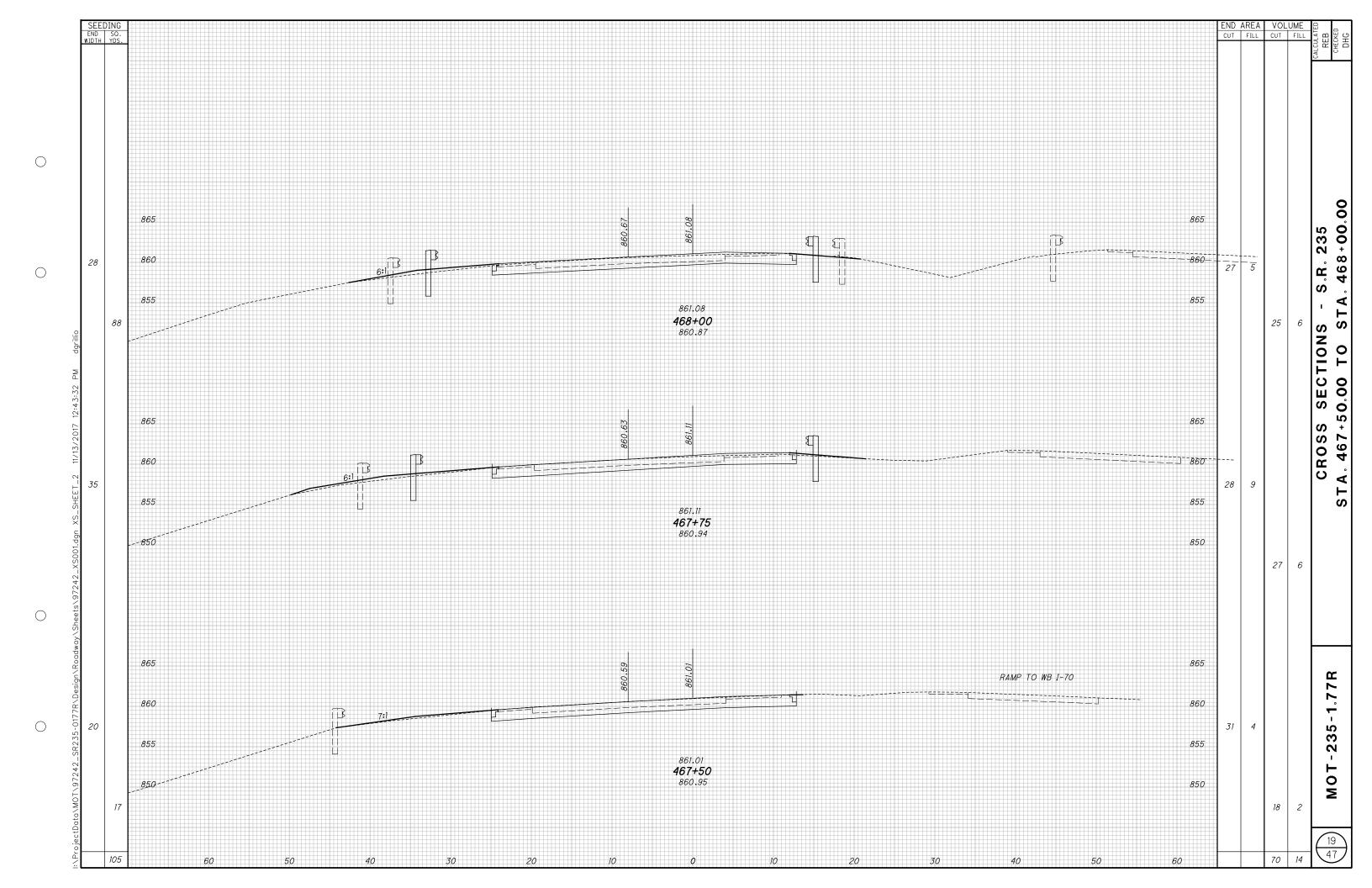
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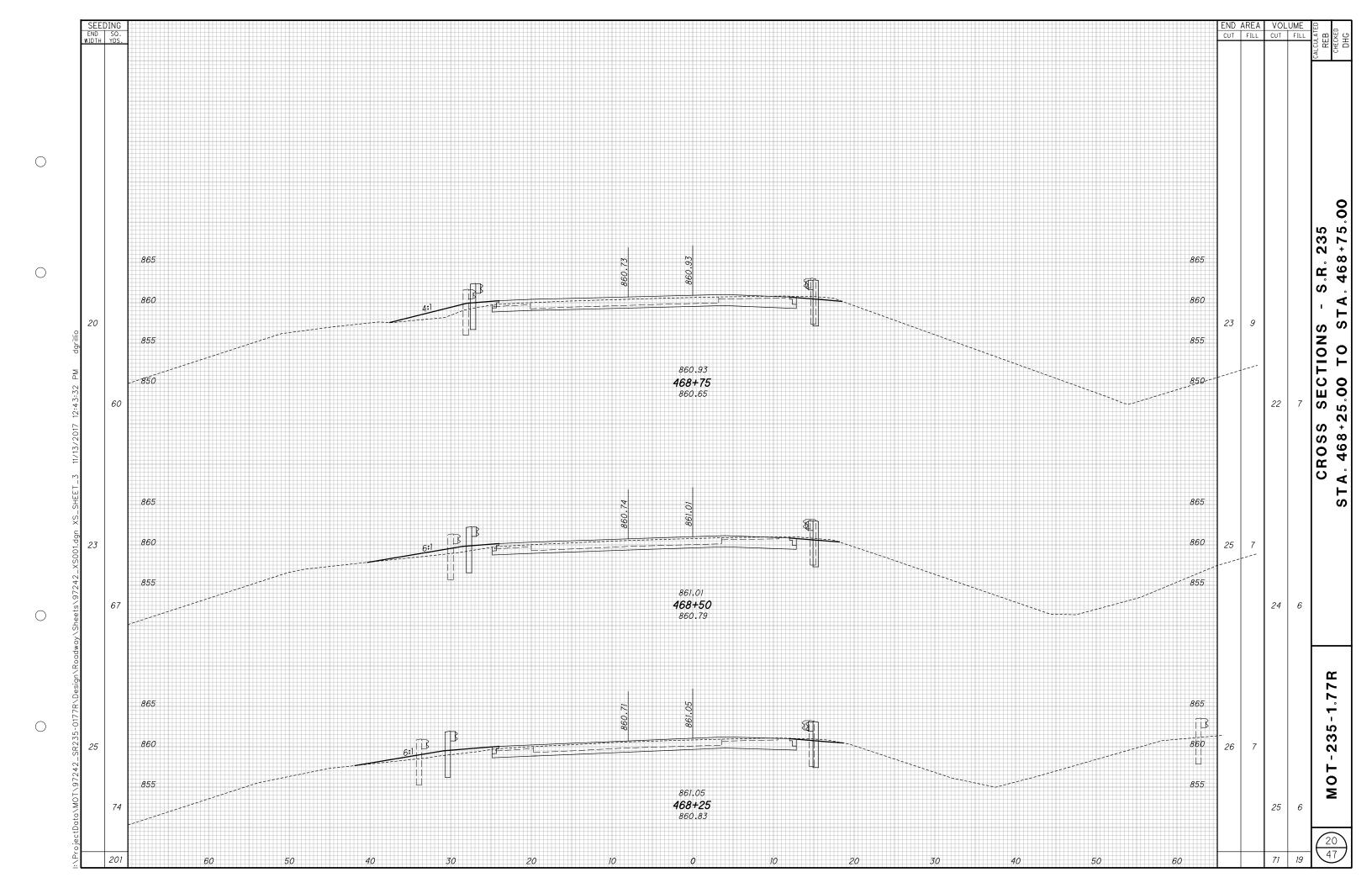
PROFILE 5 TO ST AND P 472+45 PLAN STA.

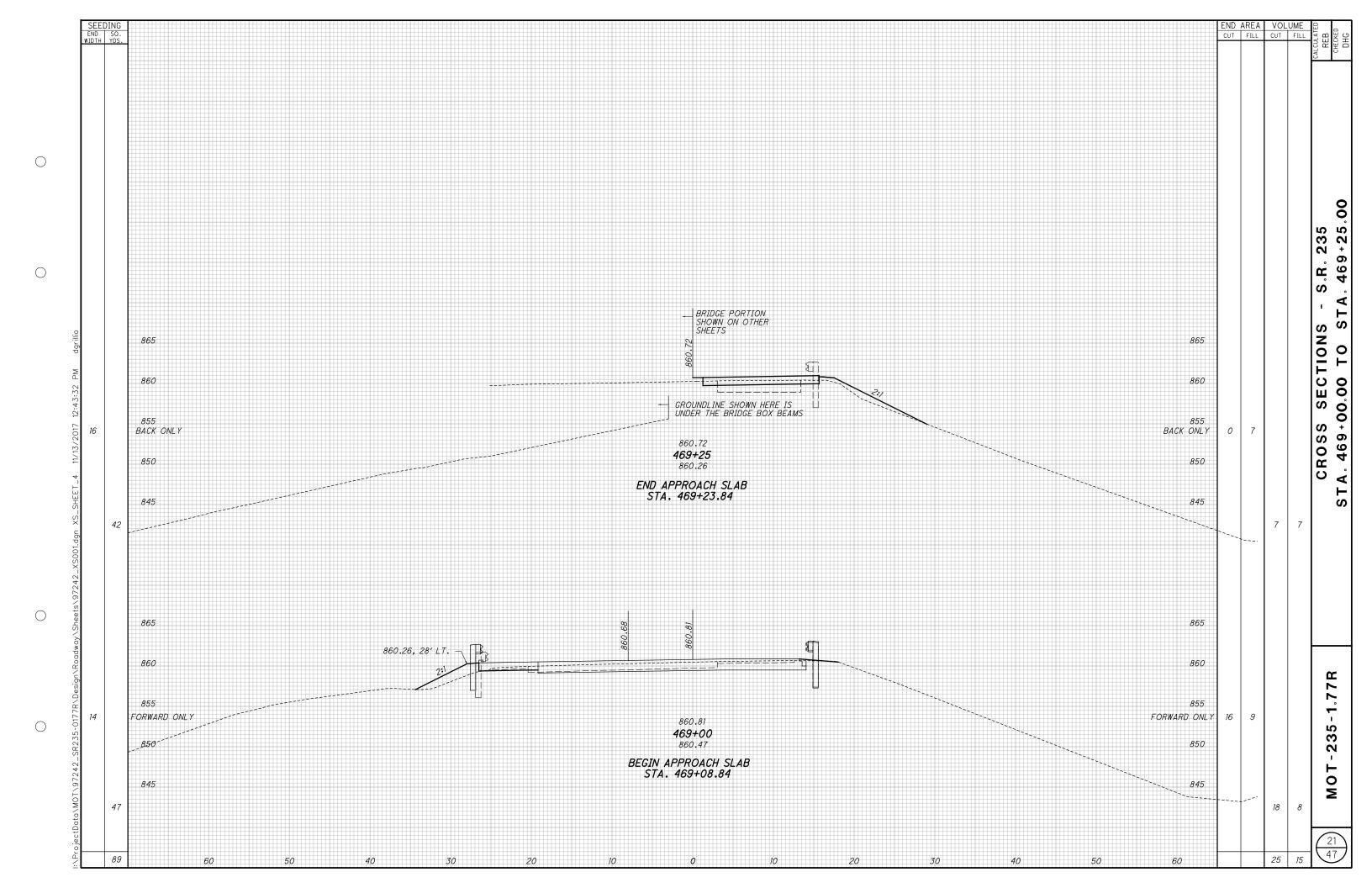
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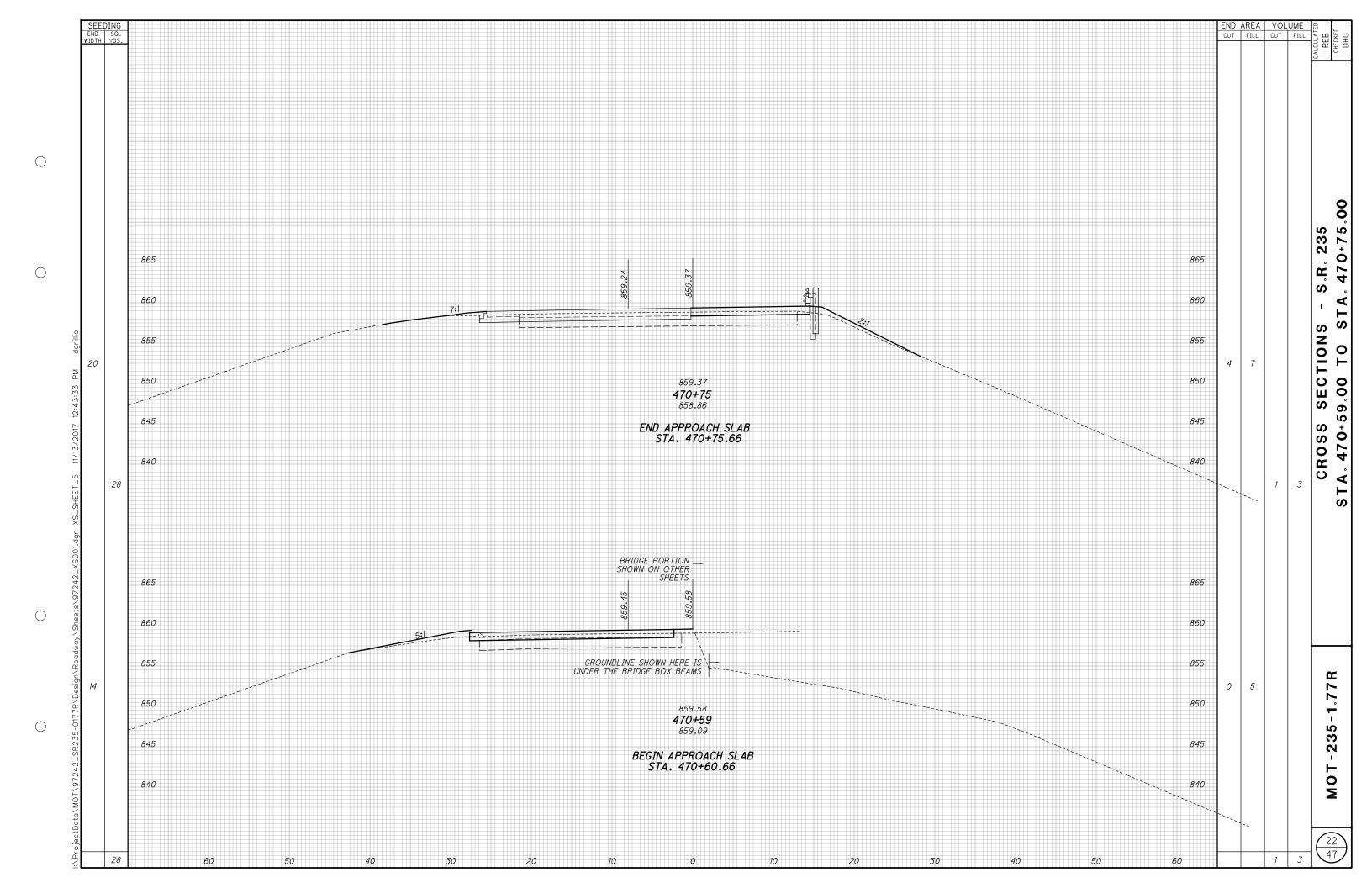
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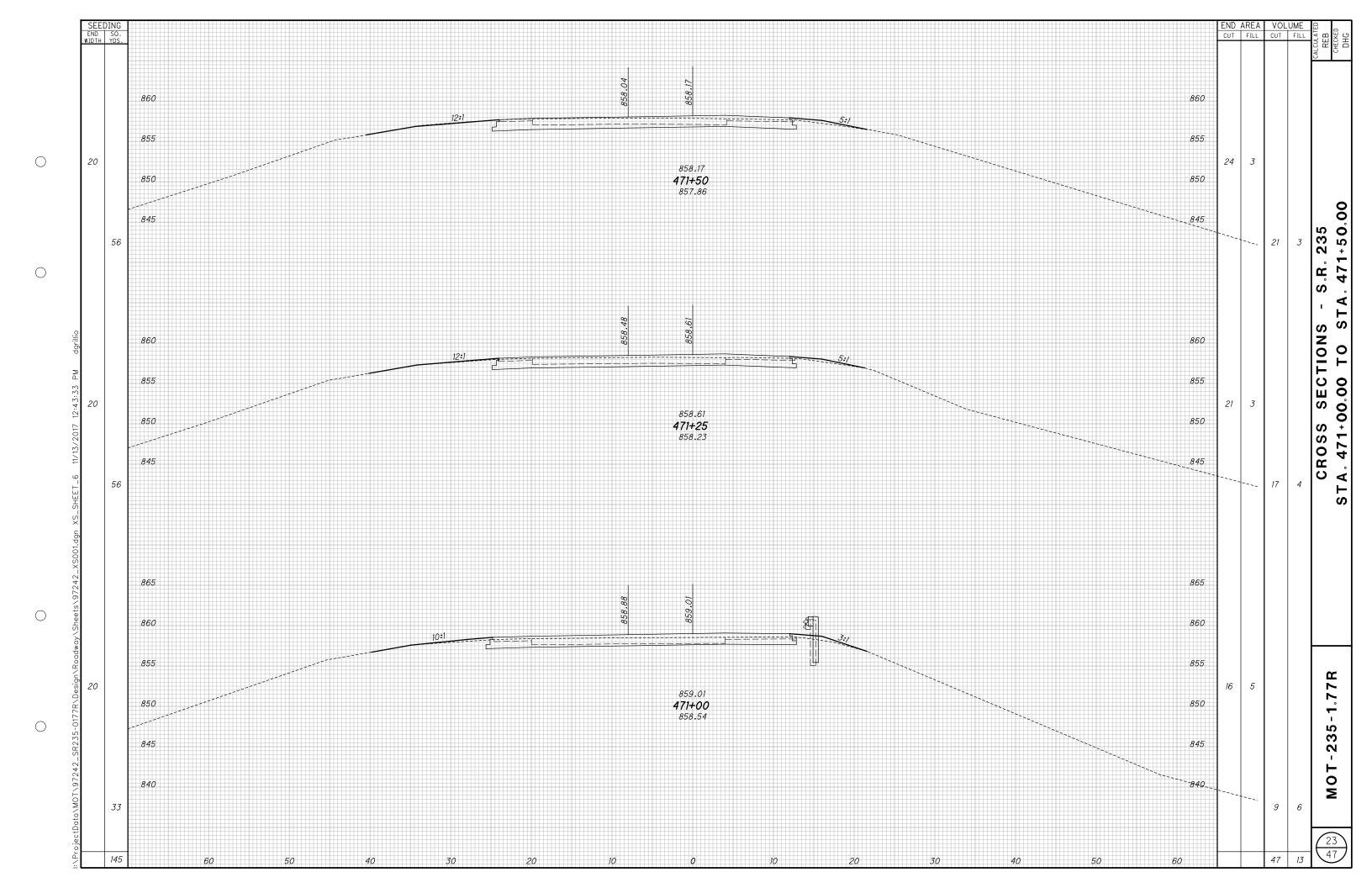


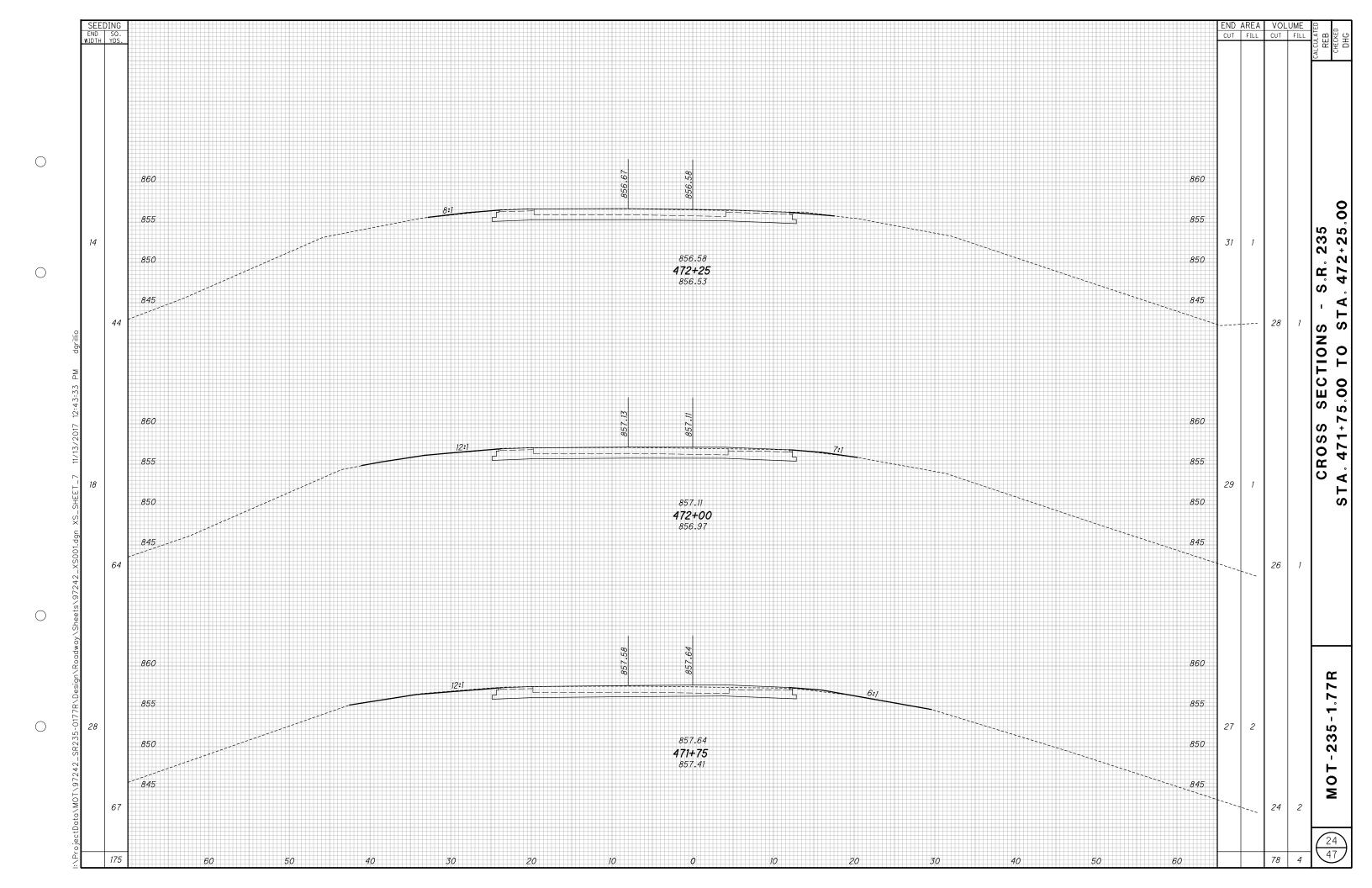


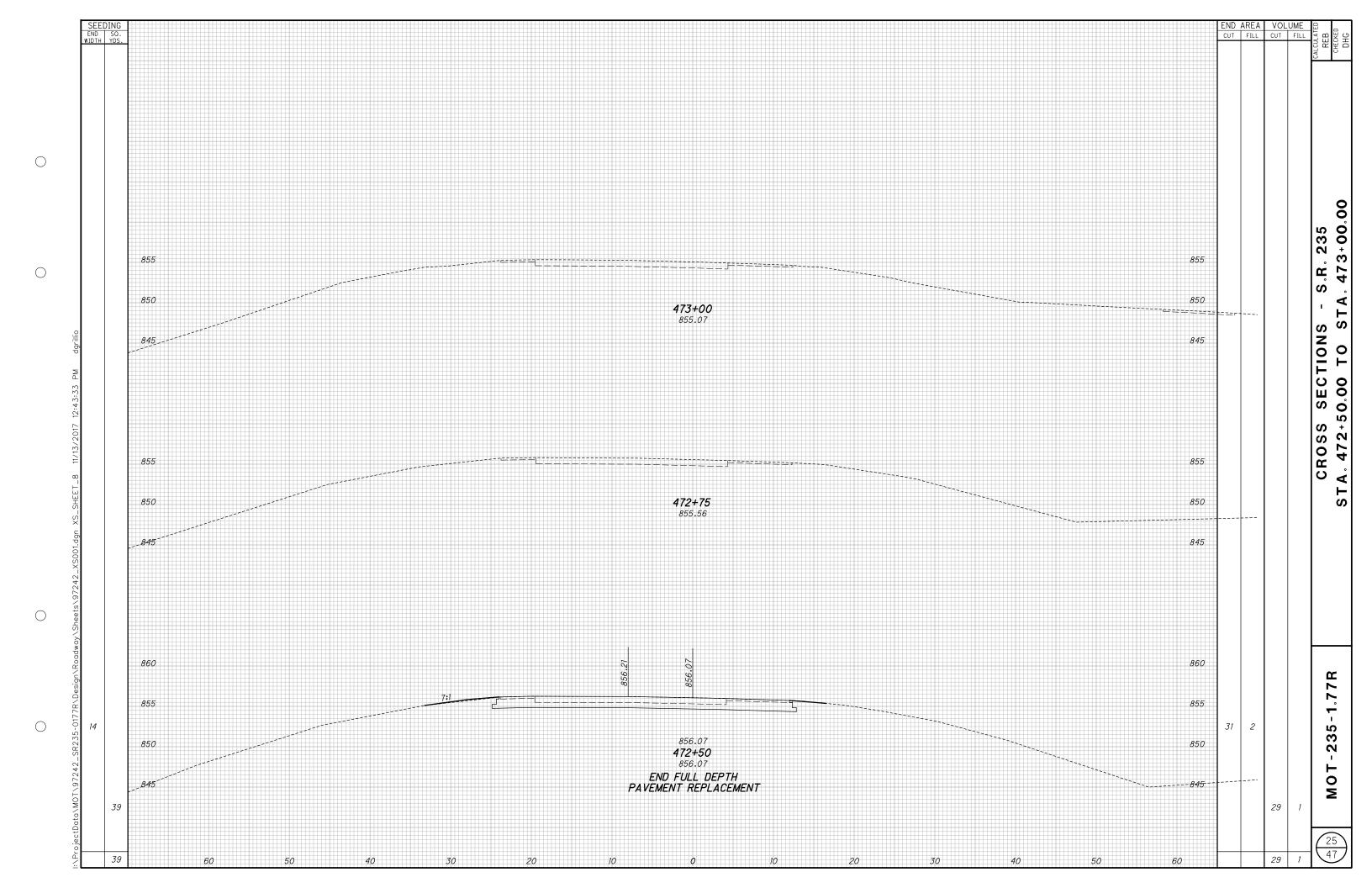








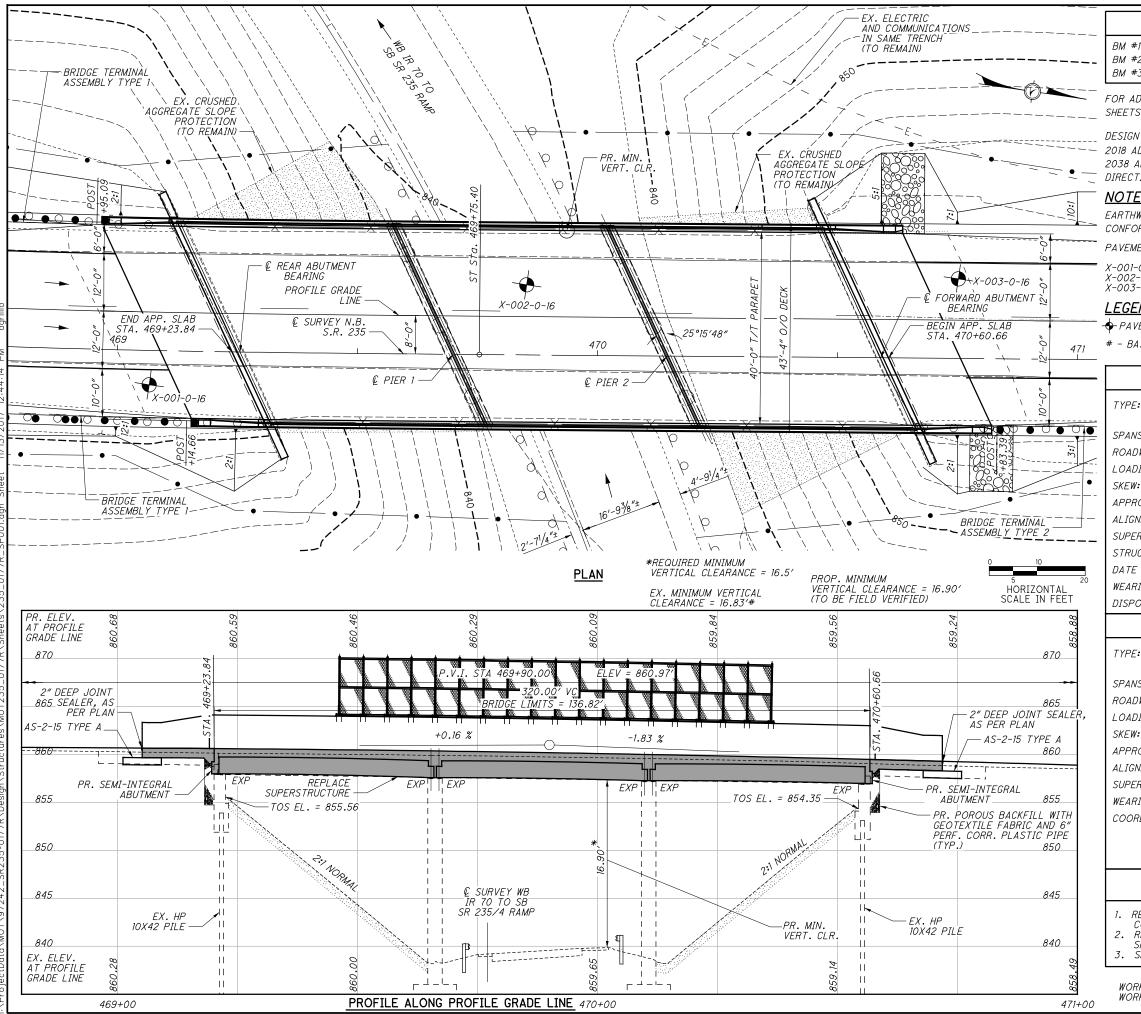




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REMARKS	REMARKS	EDGE ELEVATION	TRANSITION RATE	ELEVATION Correction	CROSS	WIDTH	PROFILE GRADE	STATION	WIDTH	CROSS	ELEVATION CORRECTION	TRANSITION RATE	EDGE Elevation	REMARKS	EDGE ELEVATION	TRANSITION RATE	*ELEVATION Correction	CROSS SLOPE	WIDTH	PROFILE GRADE	STATION	WIDTH	CROSS	*ELEVATION CORRECTION	TRANSITION RATE	EDGE Elevation
														MATCH EXISTING	861.13 861.21	254:1	+0.56	+0.047 +0.052	12.00	860.57 860.59	467+35.00 467+50.00	12.00	-0.061 -0.060	-0.73 -0.73	4489:1	59.84 59.87
														CS	861.35	254:1	+0.72	+0.060	12.00	860.63	467+75.40	12.00	-0.060	-0.72	4489:1	59.91
															861 . 29 861 . 22	236 : 1	+0.62	+0.051 +0.042	12.00 12.00	860.67 860.71	468+00.00 468+25.00	12.00 12.00	-0.051 -0.042	-0.62 -0.51	236 : 1	60.06
														VPC	861.21	236:1	+0.49	+0.041	12.00	860.72	468+30.00	12.00	-0.041	-0.49	236:1	360.23
			\vdash												861.14 861.02	236 : 1	+0.40	+0.034 +0.025	12.00 12.00	860.74 860.73	468+50.00 468+75.00	12.00 12.00	-0.034 -0.025	-0.40 -0.30	236 : 1	360.33 360.43
														RC	860.87	236:1	+0.19	+0.016	12.00	860.68	469+00.00	12.00	-0.016	-0.19	236:1	360.48
																							Ų l			
														VPT / RC	858.23	0744	+0.19	+0.016	12.00	858.04	471+50.00	12.00	-0.016	-0.19	4504	57.85
			\vdash												857.67 857.10	231 : 1 231 : 1	+0.08	+0.007	12.00 12.00	857.58 857.13	471+75.00 472+00.00	12.00 12.00	-0.011 -0.007	-0.14 -0.08	452 : 1 452 : 1	57.45 57.04
														MATOU EVICTINO	856.54	231:1	-0.13	-0.011	12.00 12.00	856.67	472+25.00	12.00	-0.002	-0.03	452:1	56.64
														MATCH EXISTING	855.97	231:1	-0.24	-0.020	12,00	856.21	472+50.00	12.00	+0.002	+0.03	452:1	356.24
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BENCHMARK DATA

BM #1 STA. 467+09.46, ELEV. 851.66, OFFSET 61.22' LT., CUT BM #2 STA. 471+92.61, ELEV. 847.44, OFFSET 166.34 LT., CUT BM #3 STA. 476+96.61, ELEV. 838.63, OFFSET 68.79' RT., CUT

FOR ADDITIONAL BENCHMARK INFORMATION. SEE ROADWAY PLAN SHEETS 16-17.

DESIGN TRAFFIC:

2018 ADT = 14000 2018 ADTT = 1400 2038 ADT = 15000 2038 ADTT = 1500 DIRECTIONAL DISTRIBUTION = 57%

EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.

PAVEMENT CORE INFORMATION:

X-001-0-16 = 2.5" ASPHALT ON APPROACH SLAB X-002-0-16 = 4" ASPHALT ON BOX BEAM X-003-0-16 = 5.5" ASPHALT ON APPROACH SLAB

→ PAVEMENT CORE

- BASED ON EXISTING GROUND SURVEY

EXISTING STRUCTURE

TYPE: PRESTRESSED CONCRETE BOX BEAMS ON CAPPED COLUMN PIERS

SPANS: 3 @ 44.5' C/C SUBSTRUCTURES

ROADWAY: 38'-10" T/T PARAPET

LOADING: HS20-44 & ALTERNATE MILITARY LOADING

SKEW: 25°-15'-48" R.F.

APPROACH SLABS: AS-1-81 (25' LONG)

ALIGNMENT: SPIRAL AND TANGENT

SUPERELEVATION: 0.016 +/- FT/FT AND VARIES

STRUCTURAL FILE NUMBER: 5709792

DATE BUILT: 1987

WEARING SURFACE: 4"± ASPHALT CONCRETE

DISPOSITION: SUPERSTRUCTURE TO BE REPLACED

PROPOSED STRUCTURE

TYPE: COMPOSITE CONCRETE BOX BEAM WITH SEMI-INTEGRAL ABUTMENTS ON CAPPED COLUMN PIERS

SPANS: 3 @ 44.5' C/C SUBSTRUCTURES

ROADWAY: 40'-0" T/T PARAPET

LOADING: HS20 AND ALTERNATE MILITARY, FWS = 60 PSF

SKEW: 25°-15'-48" R.F.

APPROACH SLABS: 15' LONG (AS-1-15 & AS-2-15)

ALIGNMENT: SPIRAL AND TANGENT

SUPERELEVATION: 0.016 FT/FT

WEARING SURFACE: 1" MONOLITHIC CONCRETE

COORDINATES: LATITUDE 39° 52′ 02″

LONGITUDE 84° 03′ 19"

PROPOSED WORK

- 1. REMOVE NON-COMPOSITE BOX BEAMS AND REPLACE WITH COMPOSITE BOX BEAM SUPERSTRUCTURE.
- REHAB PIERS BY EPOXY INJECTING LARGE CRACKS, PATCHING SPALLS WITH SCC CONCRETE.
- 3. SEALING CONCRETE SURFACES WITH EPOXY URETHANE.

WORK LISTED IS NOT INCLUSIVE. CONTRACTOR WILL SEQUENCE WORK AS NEEDED.

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MONTGOMERY C STA. 469+23.8 STA. 470+60.

PLAN 10T-235-3.B. S.R.

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AS-1-15 DATED/REVISED 7/17/15

AS-2-15 DATED/REVISED 7/17/15

BR-1-13 DATED/REVISED 1/17/14

PSBD-2-07 DATED/REVISED 1/21/11

VPF-1-90 DATED/REVISED 7/17/15

AND TO THE FOLLOWING SUPPLEMENTAL SPECIFICATION:

844 DATED 7/17/15

DESIGN SPECIFICATIONS

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THIS STRUCTURE CONFORMS TO "STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 2002, INCLUDING THE 2004 ODOT BRIDGE DESIGN MANUAL.

DESIGN LOADING

HS20 AND THE ALTERNATE MILITARY LOADING.

FUTURE WEARING SURFACE (FWS) OF 60 POUNDS PER SQUARE

DESIGN DATA

CONCRETE QC2 - COMPRESSIVE STRENGTH 4500 PSI (SUPERSTRUCTURE)

CONCRETE QC1 - COMPRESSIVE STRENGTH 4000 PSI (SUBSTRUCTURE)

REINFORCING STEEL - ASTM A615 OR A996, GRADE 60, MINIMUM YIELD STRENGTH 60,000 PSI

CONCRETE FOR PRESTRESSED BEAMS: COMPRESSIVE STRENGTH (FINAL) - 7000PSI COMPRESSIVE STRENGTH (RELEASE) - 5000 PSI

PRESTRESSING STRAND: AREA = 0.167 SQUARE INCHES ULTIMATE STRENGTH = 270 KSI INITIAL STRESS = 202.5 KSI (LOW RELAXATION STRANDS)

DECK PROTECTION METHOD

EPOXY COATED REINFORCING STEEL

2-1/2" CONCRETE COVER

MONOLITHIC WEARING SURFACE

MONOLITHIC WEARING SURFACE IS ASSUMED, FOR DESIGN PURPOSES, TO BE 1 INCH THICK.

EXISTING STRUCTURE VERIFICATION

EXISTING STRUCTURE VERIFICATION: DETAILS AND DIMENSIONS SHOWN ON THESE PLANS PERTAINING TO THE EXISTING STRUC-TURE HAVE BEEN OBTAINED FROM PLANS OF THE EXISTING STRUCTURE AND FROM FIELD OBSERVATIONS AND MEASURE-MENTS. CONSEQUENTLY, THEY ARE INDICATIVE OF THE EXIST-ING STRUCTURE AND THE PROPOSED WORK BUT THEY SHALL BE CONSIDERED TENTATIVE AND APPROXIMATE, THE CONTRACTOR IS REFERRED TO CMS SECTIONS 102.05, 105.02 AND 513.04.

BASE CONTRACT BID PRICES UPON A RECOGNITION OF THE UNCERTAINTIES DESCRIBED ABOVE AND UPON A PREBID EXAM-INATION OF THE EXISTING STRUCTURE, HOWEVER, THE DE-PARTMENT WILL PAY FOR ALL PROJECT WORK BASED UPON ACTUAL DETAILS AND DIMENSIONS WHICH HAVE BEEN VERIFIED IN THE FIELD.

ITEM 202, PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN. AS PER PLAN

THIS ITEM SHALL INCLUDE THE ELEMENTS INDICATED IN THE PLANS AND GENERAL NOTES AND THAT ARE NOT SEPARATELY LISTED FOR PAYMENT, EXCEPT FOR WEARING COURSE REMOVAL. ITEMS TO BE REMOVED INCLUDE ALL EXISTING MATERIALS BEING REPLACED BY NEW CONSTRUCTION AND MISCELLANEOUS ITEMS THAT ARE NOT SHOWN TO BE INCORPORATED INTO THE FINAL CONSTRUCTION AND ARE DIRECTED TO BE REMOVED BY THE ENGINEER. THE USE OF EXPLOSIVES, HEADACHE BALLS AND/OR HOE-RAMS WILL NOT BE PERMITTED. THE METHOD OF REMOVAL AND THE WEIGHT OF HAMMER SHALL BE APPROVED BY THE ENGINEER. PERFORM ALL WORK IN A MANNER THAT WILL NOT CUT, ELONGATE OR DAMAGE THE EXISTING REINFORCING STEEL TO BE PRESERVED. CHIPPING HAMMERS SHALL NOT BE HEAVIER THAN THE NOMINAL 90-POUND CLASS, PNEUMATIC HAMMERS SHALL NOT BE PLACED IN DIRECT CONTACT WITH REINFORCING STEEL THAT IS TO BE RETAINED IN THE REBUILT STRUCTURE.SUBMIT CONSTRUCTION PLANS ACCORDING TO CMS 501.05.

CUT LINE CONSTRUCTION JOINT PREPARATION: SAW CUT BOUNDARIES OF PROPOSED CONCRETE REMOVALS 1 INCH DEEP. REMOVE CONCRETE TO A ROUGH SURFACE. LEAVE THE EXISTING REINFORCING STEEL, IF REQUIRED IN THE PLANS, IN PLACE. INSTALL DOWEL BARS IF SPECIFIED. PRIOR TO CONCRETE PLACEMENT ABRASIVELY CLEAN JOINT SURFACES AND EXISTING EXPOSED REINFORCEMENT TO REMOVE LOOSE AND DISINTEGRATED CONCRETE AND LOOSE RUST. THOROUGHLY CLEAN THE JOINT SURFACE AND EXPOSED REINFORCEMENT OF ALL DIRT, DUST, RUST OR OTHER FOREIGN MATERIAL BY THE USE OF WATER, AIR UNDER PRESSURE, OR OTHER METHODS THAT PRODUCE SATISFACTORY RESULTS, EXISTING REINFORCING STEEL DOES NOT HAVE TO HAVE A BRIGHT STEEL FINISH, BUT REMOVE ALL PACK AND LOOSE RUST. THOROUGHLY DRENCH EXISTING CON- CRETE SURFACES WITH CLEAN WATER AND ALLOW TO DRY TO A DAMP CONDITION BEFORE PLACING CONCRETE.

SUBSTRUCTURE CONCRETE REMOVAL: REMOVE CONCRETE BY MEANS OF APPROVED PNEUMATIC HAMMERS EMPLOYING POINTED AND BLUNT CHISEL TOOLS. HYDRAULIC HOE-RAM TYPE HAMMERS WILL NOT BE PERMITTED. THE WEIGHT OF THE HAMMER SHALL NOT BE MORE THAN 35 POUNDS FOR REMOVAL WITHIN 18 INCHES OF PORTIONS TO BE PRESERVED. OUTSIDE THE 18 INCH LIMIT, THE CONTRACTOR MAY USE HAMMERS NOT EXCEEDING 90 POUNDS UPON THE APPROVAL OF THE ENGINEER. DO NOT PLACE PNEUMATIC HAMMERS IN DIRECT CONTACT WITH REINFORCING STEEL THAT IS TO BE RETAINED IN THE REBUILT STRUCTURE.

APPROACH SLAB CONCRETE PARAPETS

THE REINFORCING STEEL AND THE CONCRETE FOR THE PARAPETS ON THE APPROACH SLABS ARE INCLUDED IN ITEMS 509 AND 511 FOR PAYMENT.

BEARING PAD SHIMS

BEARING PAD SHIMS: PLACE 1/8" THICK PREFORMED BEARING PAD SHIMS. PLAN AREA 5 INCHES BY 12 INCHES. UNDER THE ELASTOMERIC BEARING PADS WHERE REQUIRED FOR PROPER BEARING. FURNISH TWO SHIMS PER BEAM. THE DEPARTMENT WILL MEASURE THIS ITEM BY THE TOTAL NUMBER SUPPLIED. THE DEPARTMENT WILL PAY FOR ACCEPTED QUANTITIES AT THE CONTRACT PRICE FOR ITEM 516 - 1/8" PREFORMED BEARING PADS. ANY UNUSED SHIMS WILL BECOME THE PROPERTY OF THE STATE.

DECK PLACEMENT DESIGN ASSUMPTIONS:

THE FOLLOWING ASSUMPTIONS OF CONSTRUCTION MEANS AND METHODS WERE MADE FOR THE ANALYSIS AND DESIGN OF THE SUPERSTRUCTURE. THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN OF THE FALSEWORK SUPPORT SYSTEM WITHIN THESE PARAMETERS AND WILL ASSUME RESPONSIBILITY FOR SUPERSTRUCTURE ANALYSIS FOR DEVIATION FROM THESE DESIGN

AN EIGHT WHEEL FINISHING MACHINE WITH A MAXIMUM WHEEL LOAD OF 2.42 KIPS.

A MINIMUM OUT-TO-OUT WHEEL SPACING AT EACH END OF THE MACHINE OF 103".

A MAXIMUM SPACING OF OVERHANG FALSE-WORK BRACKETS OF

A MAXIMUM DISTANCE FROM THE CENTERLINE OF THE FASCIA GIRDER TO THE FACE OF THE SAFETY HANDRAIL OF 65".

ITEM 516 - 2" DEEP JOINT SEALER, AS PER PLAN

A 2" DEEP X 1" WIDE STRIP SHALL BE SAWCUT OUT OF THE PROPOSED ROADWAY ASPHALT SURFACE ABUTTING THE ENDS OF THE APPROACH SLABS AFTER THE APPROACH SLABS ARE PROPERLY CURED. JOINT SEALER AS PER 705.04 SHALL BE USED TO SEAL THE JOINT CREATED.

ITEM 526 - REINFORCED CONCRETE APPROACH SLABS WITH QC /QA (T=12"), AS PER PLAN

APPROACH SLAB CONCRETE SHALL BE PLACED SEPARATELY FROM THE SUPERSTRUCTURE CONCRETE.

ITEM 844 CONCRETE PATCHING WITH GALVANIC ANODE PROTECTION, AS PER PLAN

844.01 DESCRIPTION

INSTALL CONCRETE PATCHES USING GALVANIC ANODES PER SUPPLEMENTAL SPECIFICATION 844 EXCEPT AS NOTED BELOW.

ALL CONCRETE PATCHES SHALL BE PLACED TO THE EXISTING SURFACE UNLESS OTHERWISE DETAILED IN THE PLANS.

PROVIDE A SUPERPLASTICIZED DENSE CONCRETE (SDC) CONCRETE MIX (PER SUPPLEMENTAL SPECIFICATION 848.06 & 848.14) WITH THE FOLLOWING ADDITIONAL PROPERTY:

MINIMUM SPREAD

PROVIDE AN SDC CONCRETE MIX AT A MIN. 24 INCH SPREAD THAT ALLOWS THE CONCRETE MIX TO BE PLACED THROUGH A 3 1/2" DIAMETER ACCESS HOLE THROUGH THE FORM AND SELF CONSOLIDATE. THE FINAL CONCRETE MIX WILL BE A SELF CONSOLIDATING CONCRETE USING AN APPROVED SELF CONSOLIDATING ADMIXTURE.

DURING THE CONCRETE OPERATIONS ASSURE THE REPRESENTATIVES OF THE READY MIX PRODUCER AND THE CHEMICAL ADMIXTURE MANUFACTURER ARE ON SITE TO DETERMINE ANY ADJUSTMENTS REQUIRED TO COMPLETE THE CONCRETE PLACEMENT. MAKE BATCHES OF AT LEAST 3 CU. YDS. PER DELIVERY. DELIVER AND PLACE ALL SDC CONCRETE PRIOR TO 9:00 A.M. TO HELP AVOID ADVERSE TEMPERATURE EFFECTS ON THE MIX CHARACTERISTICS.

844.03 CLEANING AND REPAIR OF REINFORCING STEEL

PRIOR TO THE SURFACE CLEANING SPECIFIED IN 519.04 AND WITHIN

844.04 GALVANIC ANODE INSTALLATION

INSTALL ANODE UNITS AND REPAIR MATERIAL IMMEDIATELY FOLLOWING PREPARATION AND CLEANING OF STEEL REINFORCEMENT. REPAIR MATERIAL SHALL BE PLACED NO LATER THAN ONE (1) WEEK AFTER CONCRETE REMOVAL UNLESS APPROVED BY THE ENGINEER. GALVANIC ANODES SHALL BE INSTALLED IN THE LOCATIONS AND SPACING AS SPECIFIED IN THE PLANS. IN NO CASE, SHALL THE SPACING EXCEED 18 INCHES.

THE EMBEDDED ANODES OR CREATE ANY AIR VOIDS AROUND THE EMBEDDED ANODES WHILE SETTING FORMWORK OR PLACING CONCRETE.

844.06 QUALITY CONTROL

844.08 BASIS OF PAYMENT

PAYMENT FOR ALL OF THE ABOVE DESCRIBED LABOR AND MATERIALS WILL BE MADE AT THE CONTRACT PRICE BID FOR ITEM 844 CONCRETE PATCHING WITH GALVANIC ANODE

24 HOURS OF PLACING PATCHING MATERIAL, BLAST CLEAN ALL SURFACES TO BE PATCHED INCLUDING THE EXPOSED REINFORCING STEEL. ACCEPTABLE METHODS INCLUDE HIGH- PRESSURE WATER BLASTING WITH OR WITHOUT ABRASIVES IN THE WATER, ABRASIVE BLASTING WITH CONTAINMENT, OR VACUUM ABRASIVE BLASTING.

THE CONTRACTOR SHALL PERFORM HIS WORK AS TO NOT DAMAGE

THE PROPOSED FORM SYSTEM MUST BE SUBMITTED, AND ACCEPTED BY THE PROJECT ENGINEER PRIOR TO THE INSTALLATION OF ANY FORMWORK. THE FORM SYSTEM SHALL NOT BE SUPPORTED THROUGH THE PATCH. THE FORM SYSTEM SHALL PROVIDE ENOUGH HEAD PRESSURE TO ENSURE THE PATCH IS FULLY CONSOLIDATED AND NULL OF VOIDS.

PROTECTION, AS PER PLAN

-235-1.77R MOT

DISTRICT 7 & ENGINEERING

ODOT PLANNING



ODOT F

ESTIMATED QUANTITIES (01/S<2/BR)									
ITEM	EXTENSION	TOTAL	UNIT	DESCRIPTION	ABUT.	PIERS	SUPER.	GEN.	SEE SHEET
202	11203	LS		PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN				LUMP	2/21
202	22900	224	SY	APPROACH SLAB REMOVED				224	
202	23500	804	SY	WEARING COURSE REMOVED				804	
202	75260	267	FT	VANDAL PROTECTION FENCE REMOVED				267	
503	21300	LS		UNCLASSIFIED EXCAVATION				LUMP	
509	10000	34737	LB	EPOXY COATED REINFORCING STEEL	1083		25174	8480	
510	10000	42	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT	42				
511	31612	211	CY	CLASS QC2 CONCRETE WITH QC/QA, SUPERSTRUCTURE			211		
511	34450	41	CY	CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK (PARAPET)			34	7	
511	44110	4	CY	CLASS QC1 CONCRETE, ABUTMENT NOT INCLUDING FOOTING	4				
512	10100	705	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	72	219	414		
512	10600	4	FT	CONCRETE REPAIR BY EPOXY INJECTION	,,,	4			
515	12041	4	EACH	PRESTRESSED CONCRETE COMPOSITE BOX BEAM BRIDGE MEMBERS, LEVEL 1, CB21-36, AS PER PLAN			4		3/21
				(BEAM LENGTH = 44'-9 1/2")					
515	12041	2	EACH	PRESTRESSED CONCRETE COMPOSITE BOX BEAM BRIDGE MEMBERS, LEVEL 1, CB21-36, AS PER PLAN			2		3/21
	40050		51011	(BEAM LENGTH = 43'-11 3/4")			40		
515	12050	18	EACH	PRESTRESSED CONCRETE COMPOSITE BOX BEAM BRIDGE MEMBERS, LEVEL 1, CB21-48			18		
515	10050		FAOU	(BEAM LENGTH = 44'-9 1/2")			0		
	12050	9	EACH	PRESTRESSED CONCRETE COMPOSITE BOX BEAM BRIDGE MEMBERS, LEVEL 1, CB21-48 (BEAM LENGTH = 43'-11 3/4")			9		
516	13600	16	SF	1" PREFORMED EXPANSION JOINT FILLER	16				
516	13900	20	SF	2" PREFORMED EXPANSION JOINT FILLER	20				
516	14020	119	FT	SEMI-INTEGRAL ABUTMENT EXPANSION JOINT SEAL	119				-
516	31011	89	FT	2" DEEP JOINT SEALER, AS PER PLAN				89	2/21
516	41100	66	EACH	1/8" PREFORMED BEARING PAD	22	44			
516	43100	132	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES ONLY (NEOPRENE) (5"X12"X1")	44	88			
518	21200	47	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC	47				
518	40000	122	FT	6" PERFORATED CORRUGATED PLASTIC PIPE	122				
518	40010	30	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS	30				
526	10011	145	SY	REINFORCED CONCRETE APPROACH SLABS WITH QC/QA (T=12"), AS PER PLAN				145	2/21
526	90010	92	FT	TYPE A INSTALLATION				92	
607	39900	170	FT	VANDAL PROTECTION FENCE, 6' STRAIGHT, COATED FABRIC			170		

23

TEMPORARY VERTICAL CLEARANCE DURING CONSTRUCTION

10001

23

844

ANY WORK (FALSEWORK, TRAFFIC PROTECTION, CONTAINMENT, ETC.) OVER LIVE TRAFFIC THAT REDUCES THE 'EXISTING MINIMUM VERTICAL CLEARANCE' IS PROHIBITED UNLESS WRITTEN NOTIFICATION IS PROVIDED AS DEFINED IN THE MAINTENANCE OF TRAFFIC GENERAL NOTES. ANY WORK OVER LIVE TRAFFIC SHALL NOT REDUCE THE VERTICAL CLEARANCE BELOW THE 'REQUIRED MINIMUM VERTICAL CLEARANCE' AS LISTED IN THE PLANS.

ANY WORK OVER LIVE TRAFFIC REQUIRING THE TEMPORARY VERTICAL CLEARANCE IS TO BE REMOVED AS SOON AS IT IS NO LONGER NEEDED FOR CONSTRUCTION. A SECOND NOTICE IS TO BE SENT TO ODOT'S SPECIAL HAULING PERMITS SECTION UPON REMOVAL.

LOWERING THE VERTICAL CLEARANCE DURING CONSTRUCTION IS CONSIDERED THE CONTRACTOR'S MEANS AND METHODS OF ACCOMPLISHING THE WORK, AND THEREFORE THE STATE IS NOT RESPONSIBLE FOR ANY DAMAGE FROM VEHICULAR IMPACTS THAT MAY RESULT AS PER 107.10.

ITEM 515, PRESTRESSED CONCRETE COMPOSITE BOX BEAM BRIDGE MEMBERS, LEVEL 1, CB21-36, AS PER PLAN (BEAM LENGTH = 44'-91/2")

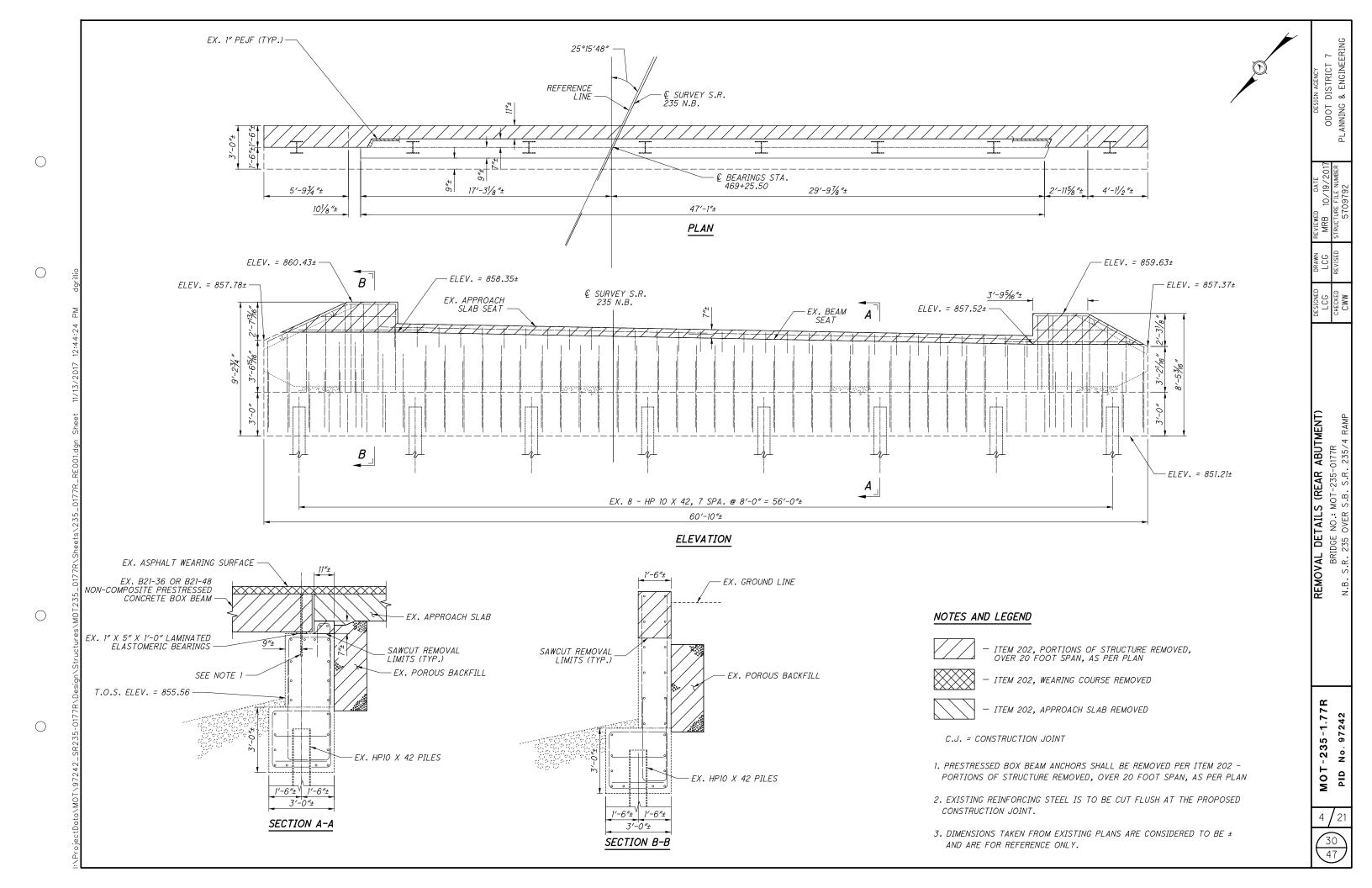
CONCRETE PATCHING WITH GALVANIC ANODE PROTECTION, AS PER PLAN

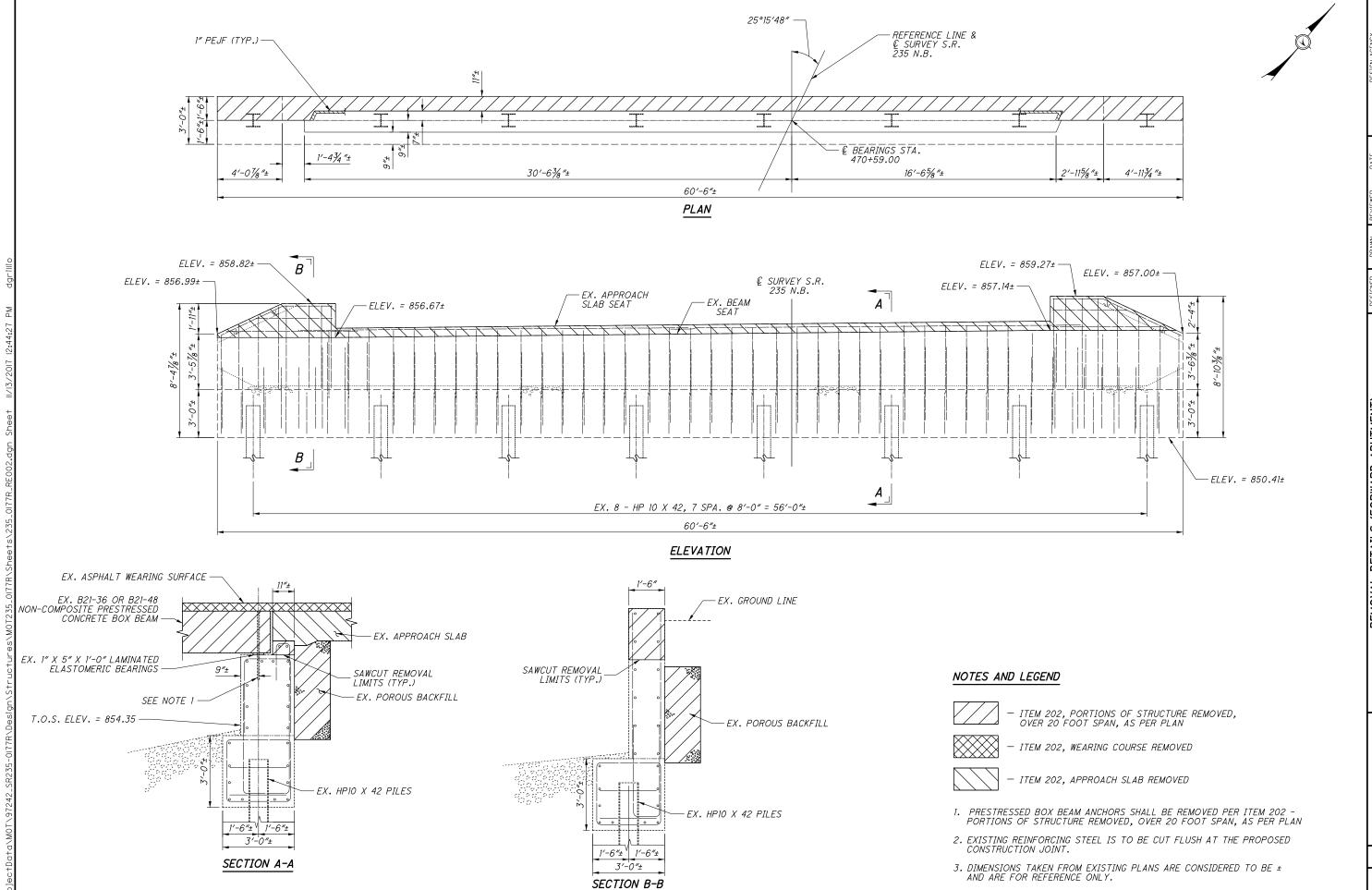
EXCEPT AS SHOWN ON THE PSBD-2-07 STANDARD DRAWING, THE DEPARTMENT WILL NOT PERMIT INSERTS OR HOLES IN THE BOTTOM FLANGE ALONG THE LENGTH OF THE ENTIRE BEAM.

ITEM 515, PRESTRESSED CONCRETE COMPOSITE BOX BEAM BRIDGE MEMBERS, LEVEL 1, CB21-36, AS PER PLAN (BEAM LENGTH = 43'-1134")

EXCEPT AS SHOWN ON THE PSBD-2-07 STANDARD DRAWING, THE DEPARTMENT WILL NOT PERMIT INSERTS OR HOLES IN THE BOTTOM FLANGE ALONG THE LENGTH OF THE ENTIRE BEAM.







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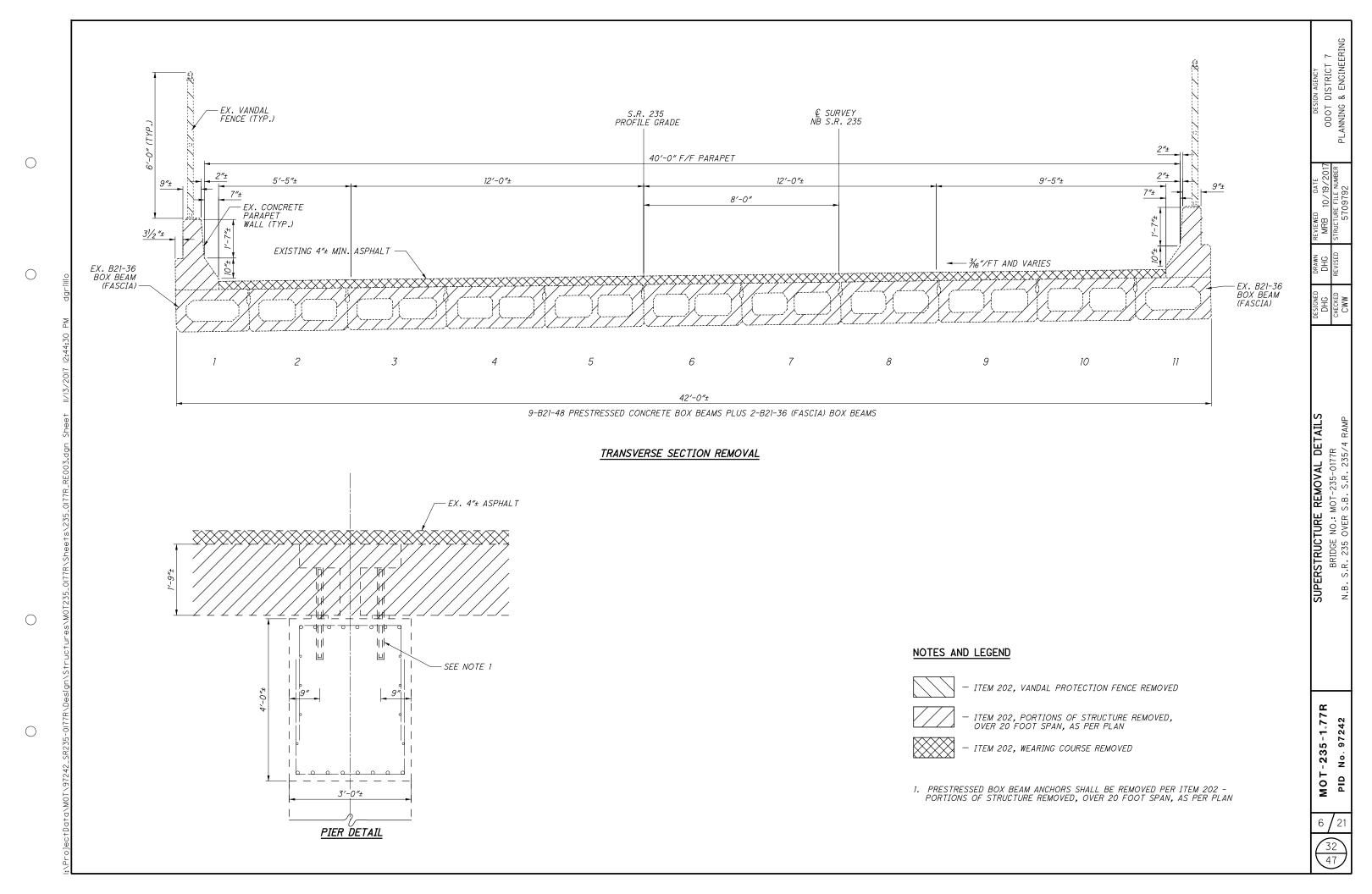
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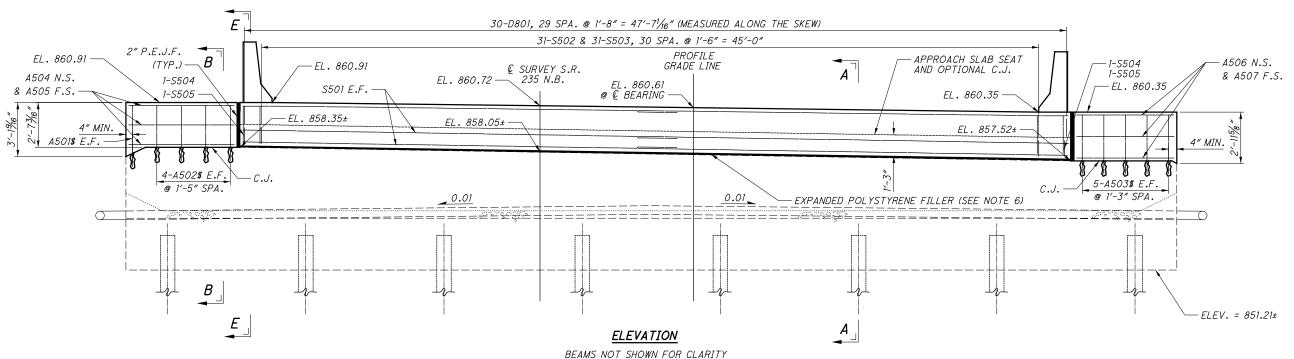
SIGN AGENCY
DISTRICT 7
S & ENGINEERING

ODOT F

DETAILS (FORWARD ABUTMENT)
BRIDGE NO.: MOT-235-0177R
R. 235 OVER S.B. S.R. 235/4 RAMP

MOT-235-1,77R





1. POROUS BACKFILL WITH GEOTEXTILE FABRIC, 2 FEET THICK SHALL

NOTES & LEGEND

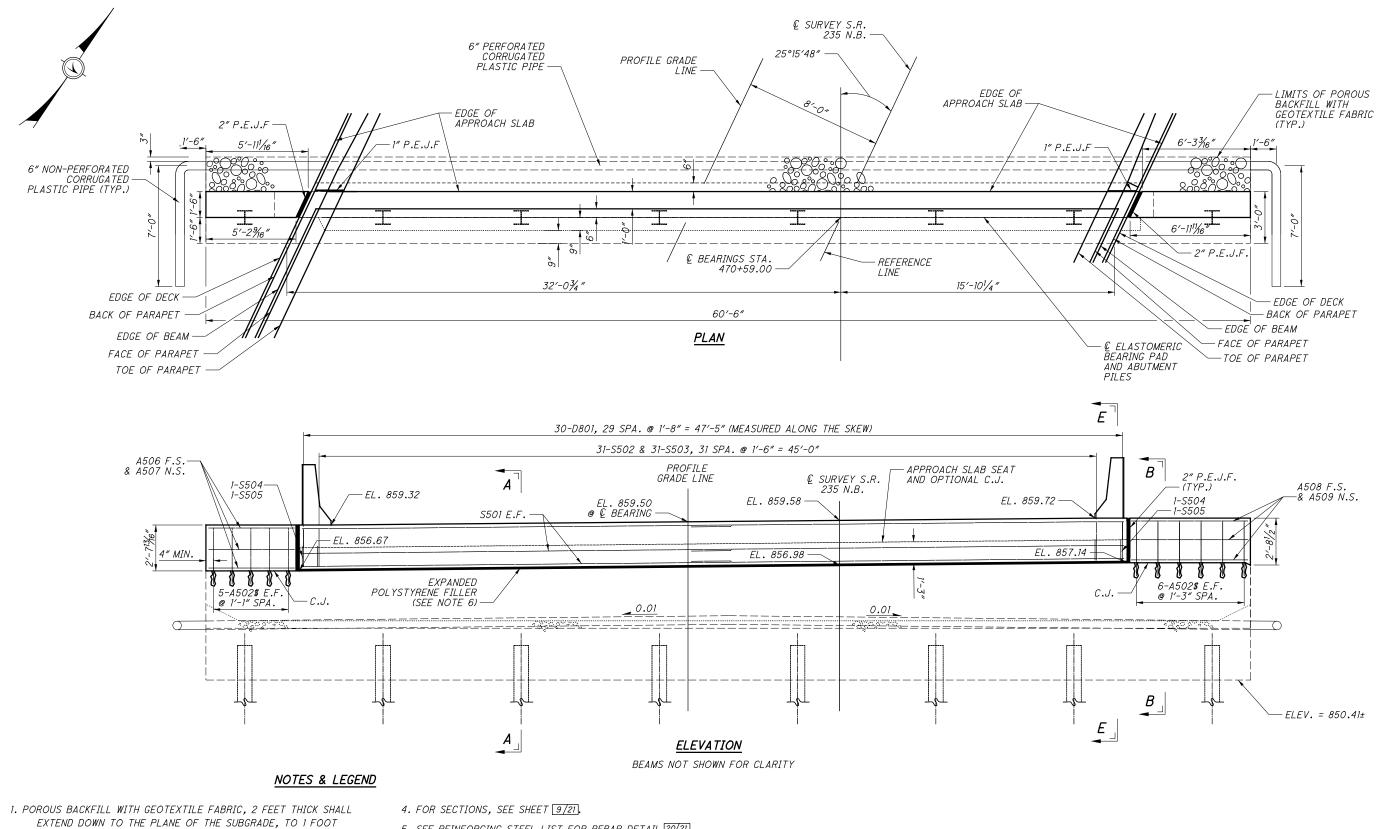
EXTEND DOWN TO THE PLANE OF THE SUBGRADE, TO 1 FOOT BELOW THE EMBANKMENT SURFACE, AND LATERALLY TO THE ENDS OF THE WINGWALLS.

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- 2. ABUTMENT DIAPHRAGM CONCRETE: PLACE THE DIAPHRAGM CONCRETE ENCASING THE STRUCTURAL MEMBER ENDS WITH THE DECK CONCRETE OR AT LEAST 48 HOURS BEFORE PLACEMENT OF THE DECK CONCRETE.
- 3. ABUTMENT CONCRETE: DO NOT PLACE THE ABUTMENT CONCRETE ABOVE THE BRIDGE SEAT CONSTRUCTION JOINT UNTIL THE PRESTRESSED CONCRETE BOX BEAMS HAVE BEEN ERECTED.

- 4. FOR SECTIONS, SEE SHEET 9/21.
- 5. SEE REINFORCING STEEL LIST FOR REBAR DETAIL 20/21.
- 6. EXPANDED POLYSTYRENE FILLER TO BE INCLUDED WITH SUPERSTRUCTURE CONCRETE FOR PAYMENT.
- #5 BAR LAP LENGTH = 2'-6"
- # BAR TO BE DOWELED INTO EXISTING STRUCTURE
- E.F. EACH FACE
- N.S. NEAR SIDE
- F.S. FAR SIDE
- P.E.J.F. PREFORMED EXPANSION JOINT FILLER
- C.J. CONSTRUCTION JOINT

DISTRICT 7 8 ENGINEERING



BELOW THE EMBANKMENT SURFACE, AND LATERALLY TO THE ENDS OF THE WINGWALLS.

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- 2. ABUTMENT DIAPHRAGM CONCRETE: PLACE THE DIAPHRAGM CONCRETE ENCASING THE STRUCTURAL MEMBER ENDS WITH THE DECK CONCRETE OR AT LEAST 48 HOURS BEFORE PLACEMENT OF THE DECK CONCRETE.
- 3. ABUTMENT CONCRETE: DO NOT PLACE THE ABUTMENT CONCRETE ABOVE THE BRIDGE SEAT CONSTRUCTION JOINT UNTIL THE PRESTRESSED CONCRETE BOX BEAMS HAVE BEEN ERECTED.

- 5. SEE REINFORCING STEEL LIST FOR REBAR DETAIL 20/21.
- 6. EXPANDED POLYSTYRENE FILLER TO BE INCLUDED WITH SUPERSTRUCTURE CONCRETE FOR PAYMENT.
- #5 BAR LAP LENGTH = 2'-6"
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- E.F. EACH FACE
- N.S. NEAR SIDE
- F.S. FAR SIDE
- P.E.J.F. PREFORMED EXPANSION JOINT FILLER
- C.J. CONSTRUCTION JOINT

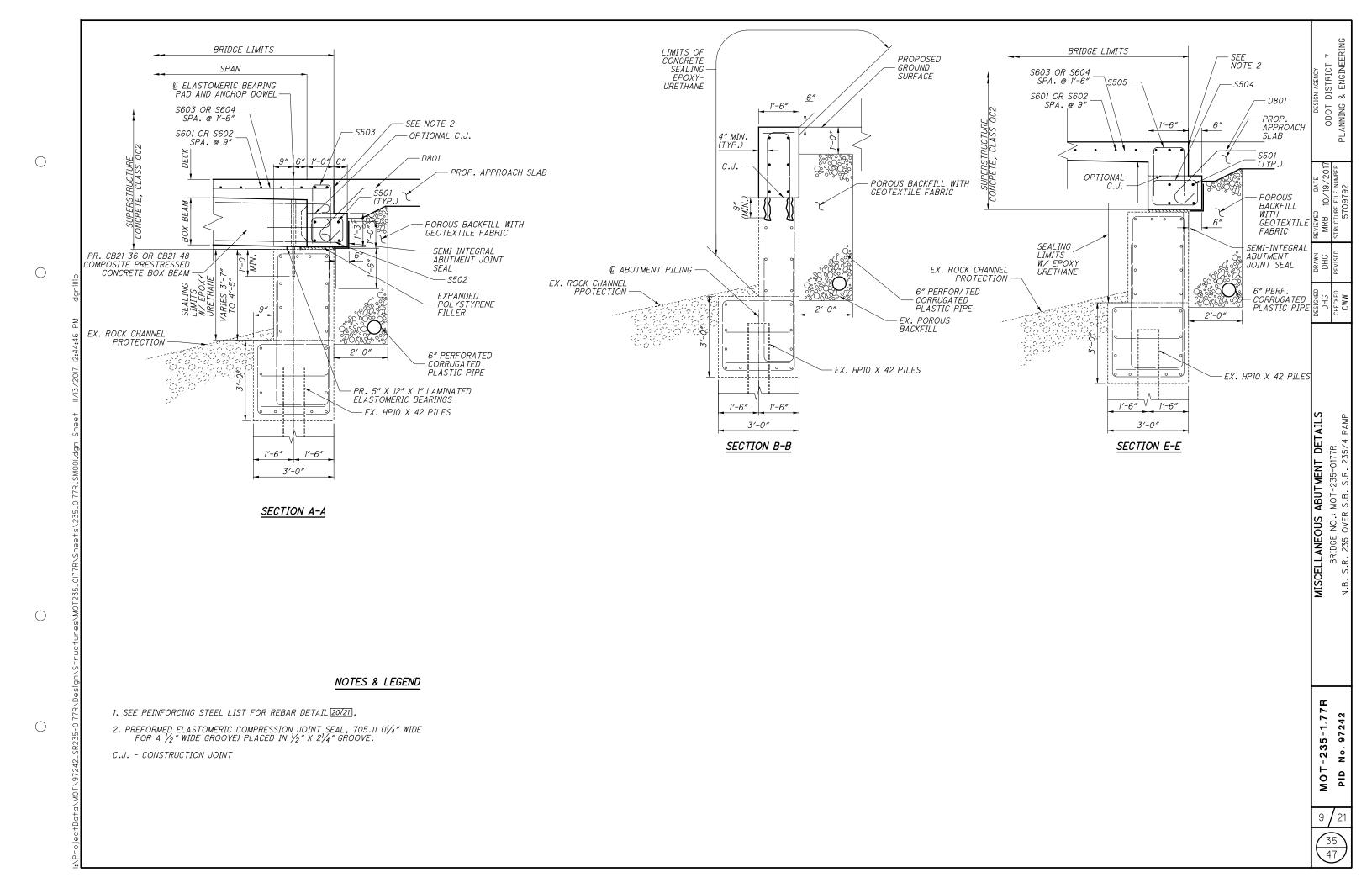
MOT-235-1,77R

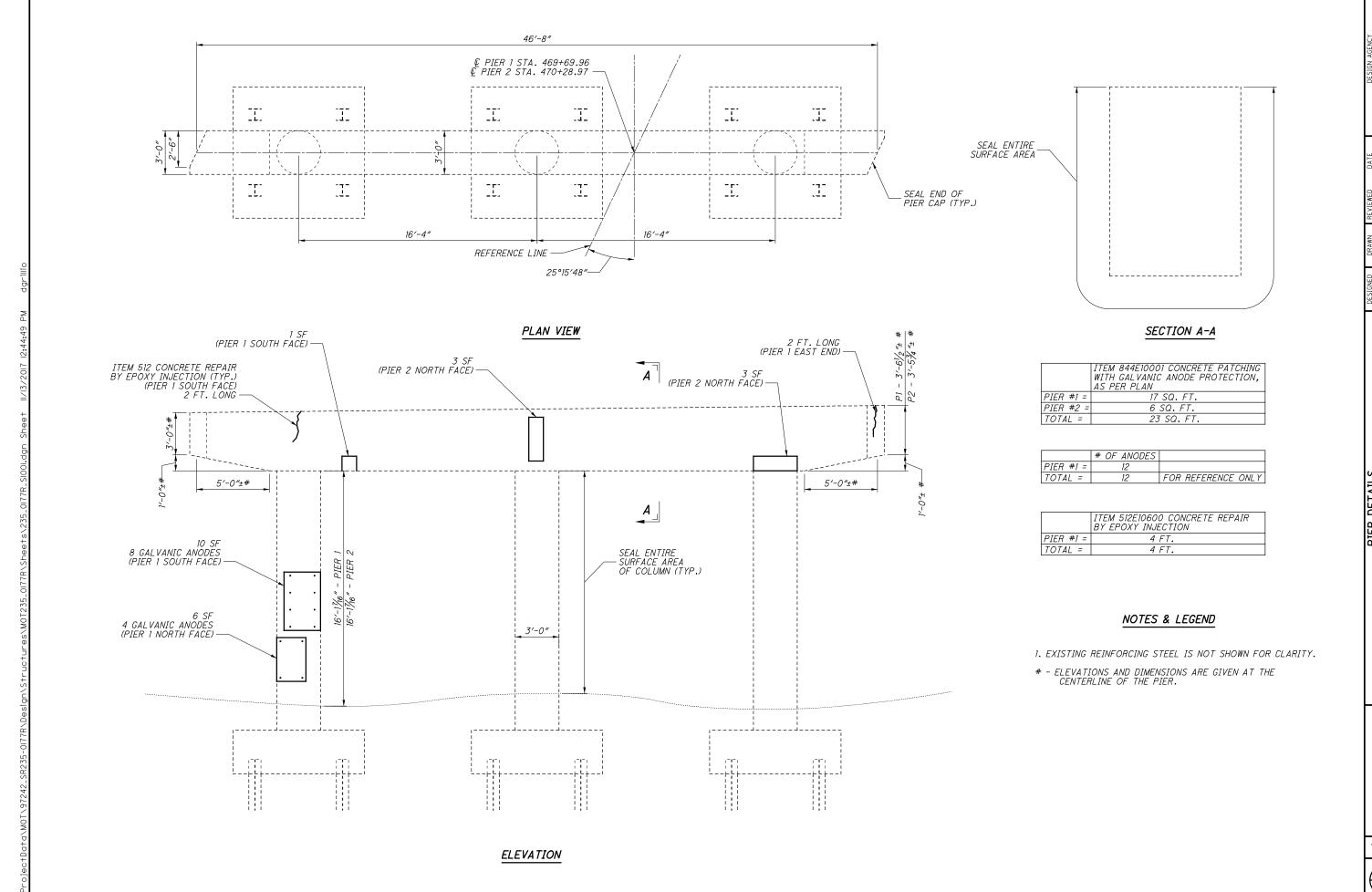
ENT DETAILS -235-0177R . S.R. 235/4 RA

ABUTMENT NO.: MOT-235-OVER S.B. S.R

DISTRICT 7 8 ENGINEERING

ODOT





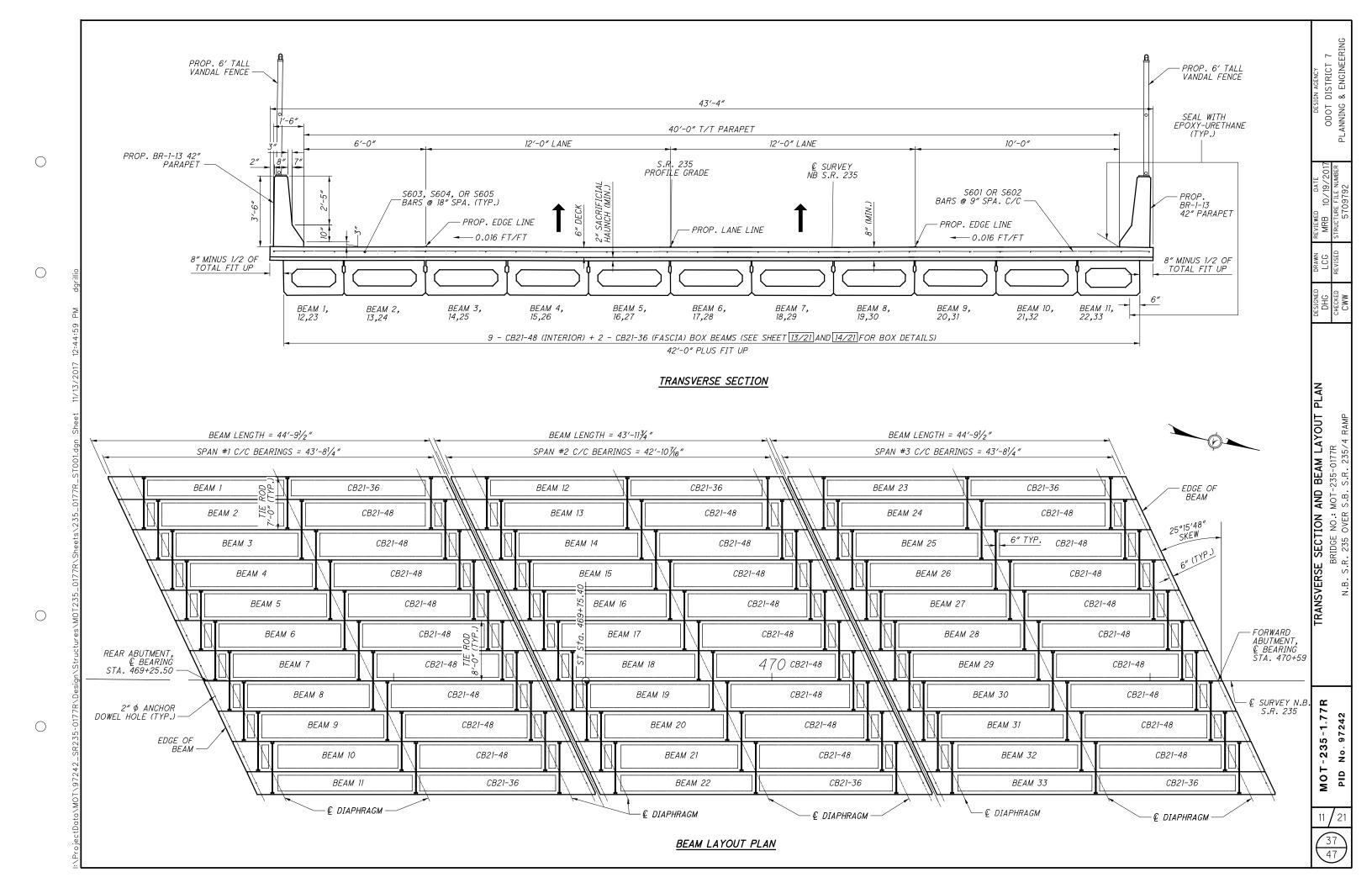
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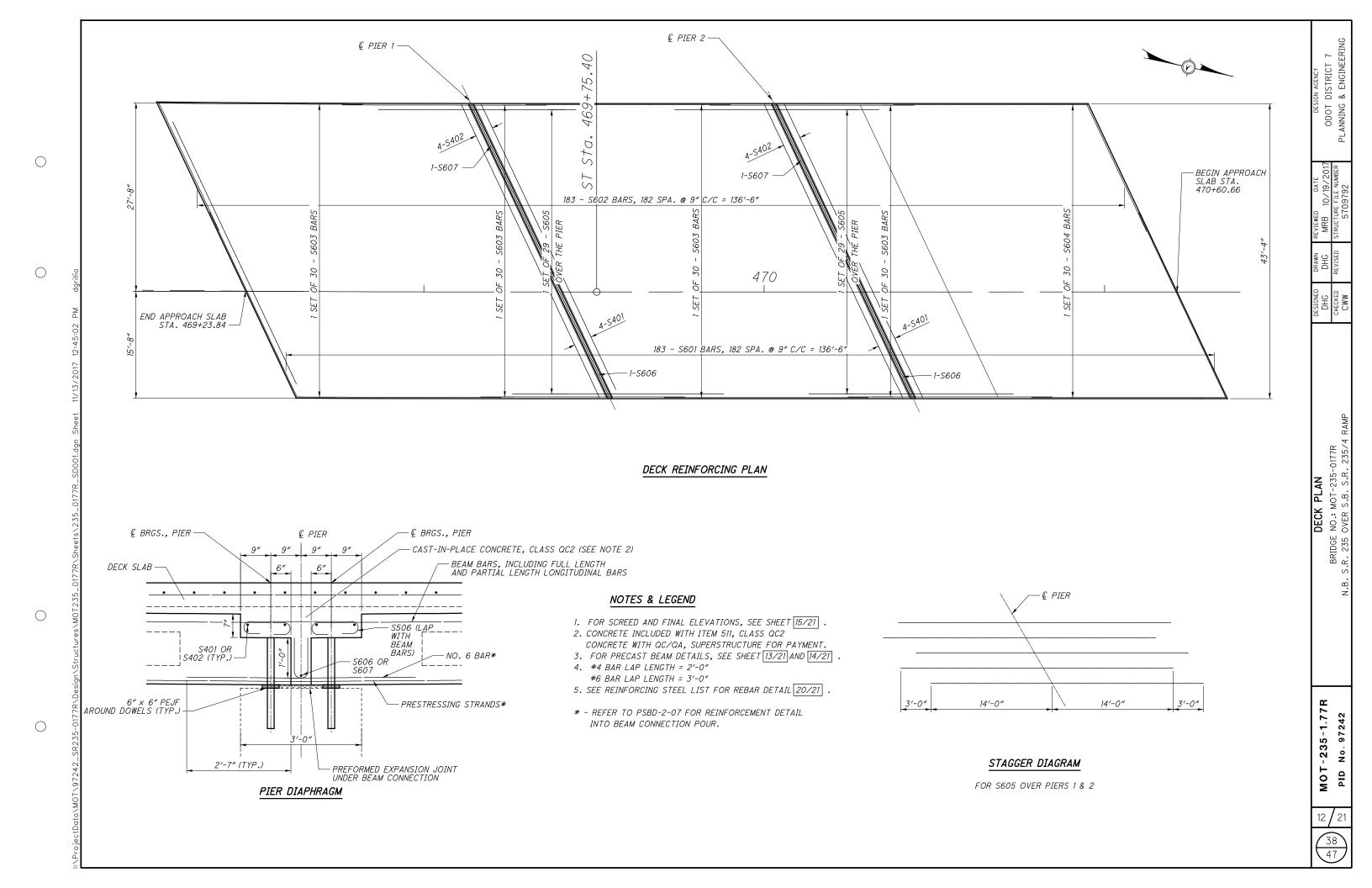
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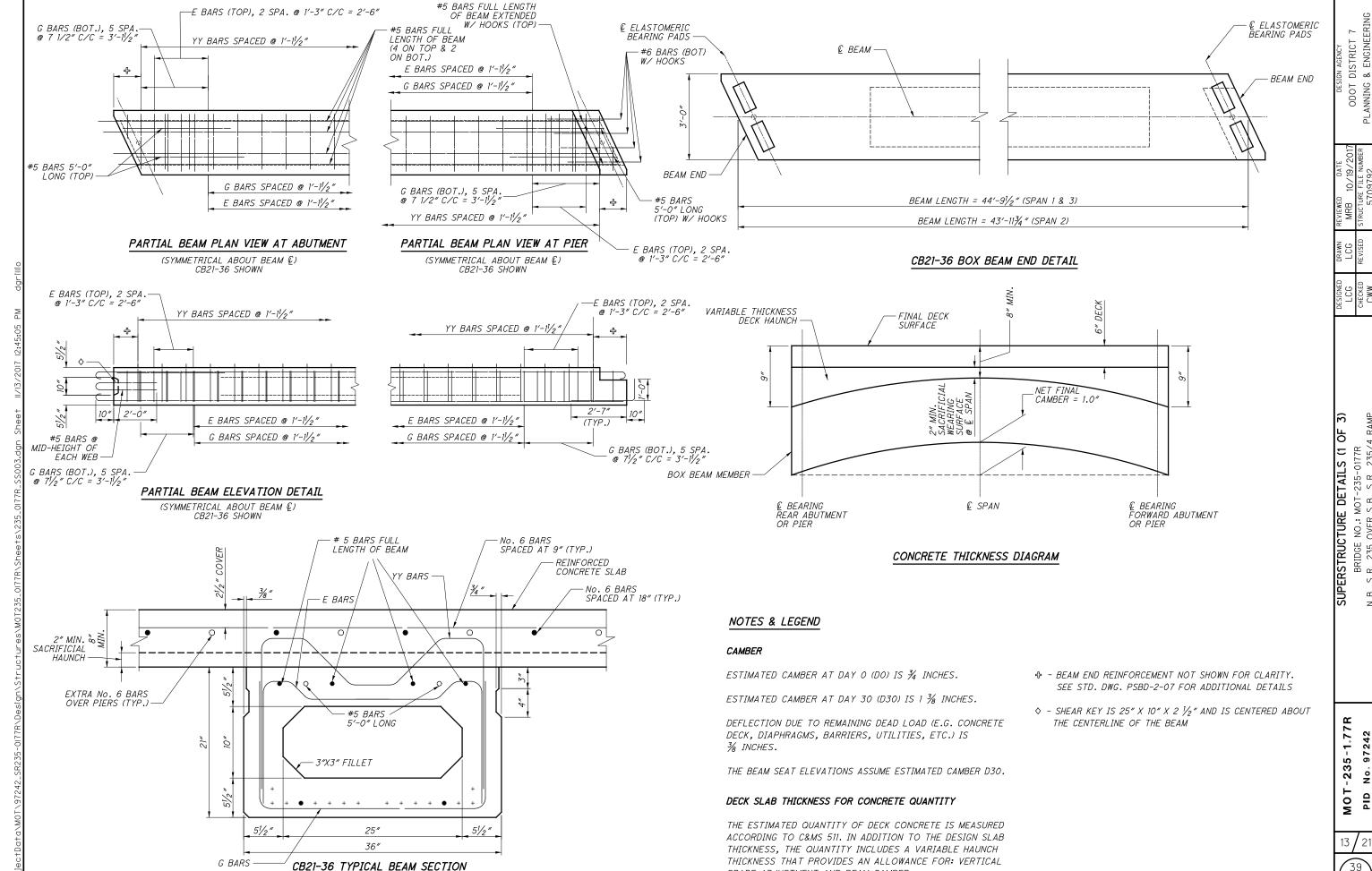
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DESIGN AGENCY ODOT DISTRICT 7 PLANNING & ENGINEERING

MOT-235-1,77R 97242





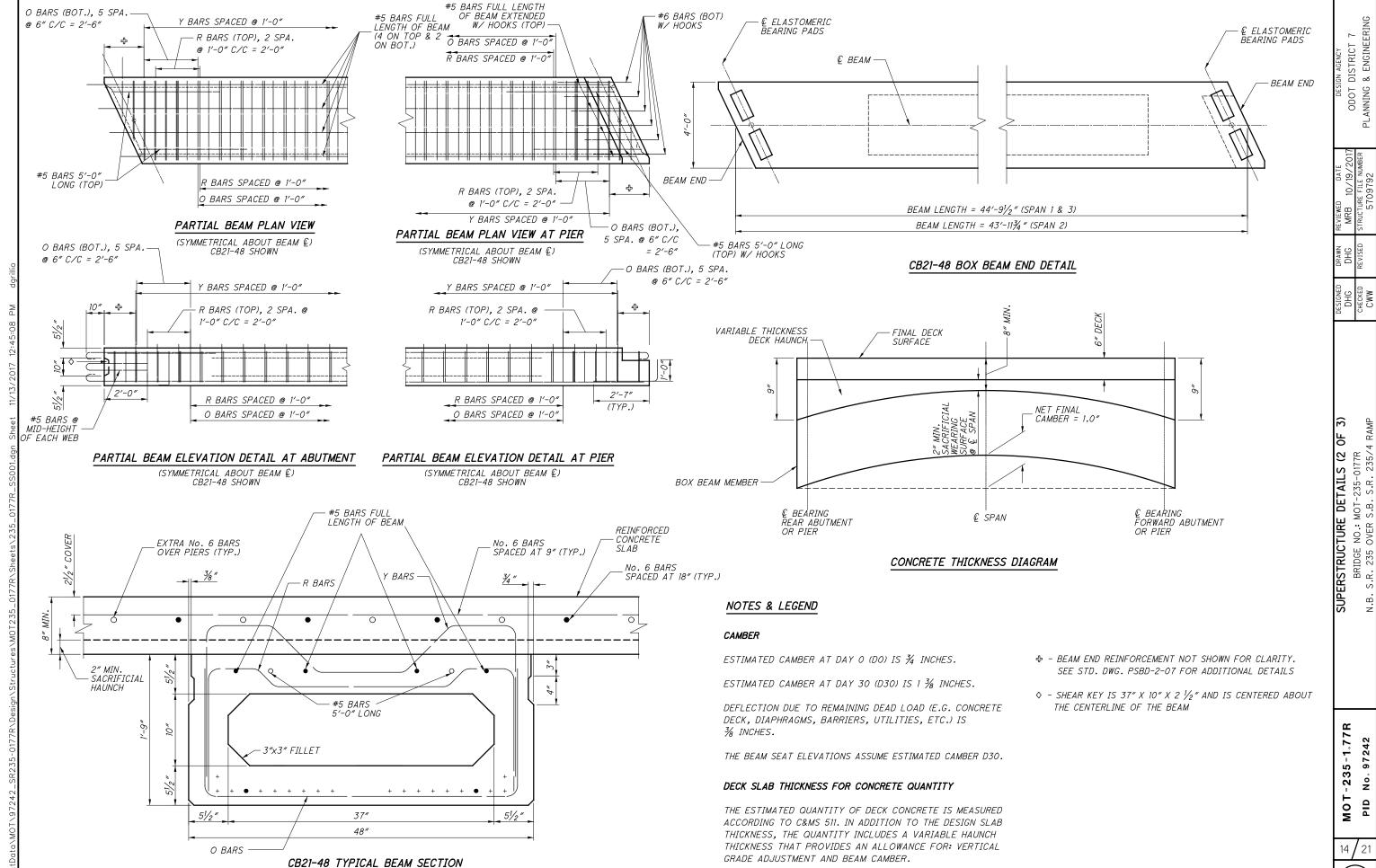


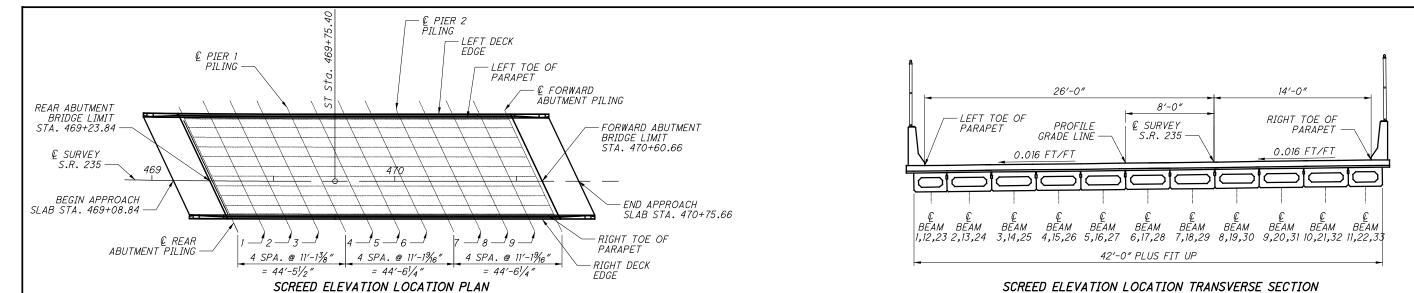
GRADE ADJUSTMENT AND BEAM CAMBER.

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SUPERSTRUCTURE DETAILS (1)
BRIDGE NO.: MOT-235-0177R
N.B. S.R. 235 OVER S.B. S.R. 235/

39





	COMPOSITE BOX BEAM SCREED ELEVATIONS													
LOCATION		R. A.	1	2	3	€ OF PIER 1	4	5	6	€ OF PIER 2	7	8	9	F. A.
LEFT TOE OF PARAPET	STATION	469+12.92	469+24.13	469+35.33	469+46.51	469+57.66	469+68.82	469+79.95	469+91.08	470+02.21	470+13.34	470+24.47	470+35.60	470+46.73
	ELEVATION	860.35	860.34	860.28	860.22	860.13	860.07	860.00	859.90	859.79	859.71	859.59	859.47	859.32
PROFILE GRADE	STATION	469+21.65	469+32.79	469+43.93	469+55.05	469+66.18	469+77.32	469+88.45	469+99.58	470+10.71	470+21.83	470+32.96	470+44.09	470+55.23
FROFILE GRADE	ELEVATION	860.61	860.59	860.54	860.46	860.36	860.30	860.22	860.12	859.99	859.90	859.79	859.66	859.50
© SURVEY S.R. 235	STATION	469+25.50	469+36.61	469+47.73	469+58.84	469+69.95	469+81.09	469+92.22	470+03.35	470+14.48	470+25.61	470+36.74	470+47.87	470+59.00
& 204 VET 2.4. 233	ELEVATION	860.72	860.69	860.63	860.56	860.46	860.40	860.31	860.21	860.08	859.99	859.87	859.74	859.58
RIGHT TOE OF PARAPET	STATION	469+32.19	469+43.27	469+54.35	469+65.45	469+76.56	469+87.70	469+98.83	470+09.96	470+21.09	470+32.22	470+43.35	470+54.48	470+65.61
	ELEVATION	860.91	860.87	860.82	860.74	860.64	860.57	860.48	860.37	860.24	860.14	860.02	859.88	859.72

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					COMPOSITE	BOX BEAM FIN.	AL DECK SURF	ACE ELEVATIOI	VS					
LOCATION		R. A.	1	2	3	€ OF PIER 1	4	5	6	€ OF PIER 2	7	8	9	F. A.
LEFT TOE OF PARAPET	STATION	469+12.92	469+24.13	469+35.33	469+46.51	469+57.66	469+68.82	469+79.95	469+91.08	470+02.21	470+13.34	470+24.47	470+35.60	470+46.73
LEFT TOE OF FARAFET	ELEVATION	860.35	860.31	860.26	860.20	860.13	860.05	859.97	859.88	859.79	859.68	859.57	859.45	<i>859.32</i>
© BEAM 1, 12, 23	STATION	469+13.16	469+24.37	469+35.57	469+46.74	469+57.90	469+69.06	469+80.19	469+91.32	470+02.45	470+13.58	470+24.71	470+35.84	470+46.97
¥ DEAM 1, 12, 23	ELEVATION	860.36	860.31	860.26	860.20	860.14	860.06	859.98	859.89	859.79	859.69	<i>859.57</i>	859.45	<i>859.32</i>
© BEAM 2, 13,24	STATION	469+14.87	469+26.06	469+37.25	469+48.41	469+59.56	469+70.71	469+81.84	469+92.97	470+04.10	470+15.23	470+26.36	470+37.49	470+48.62
₹ DEAM Z, 13,29	ELEVATION	860.41	860.36	860.31	860.25	860.18	860.11	860.02	859.93	859.83	859.73	859.61	859.49	<i>859.36</i>
© BEAM 3, 14, 25	STATION	469+16.81	469+27.99	469+39.16	469+50.31	469+61.45	469+72.60	469+83.72	469+94.86	470+05.99	470+17.11	470+28.25	470+39.38	470+50.51
₹ DLAM 3, 14, 23	ELEVATION	860.46	860.42	860.36	860.30	860.23	860.16	860.07	859.98	859.88	859.77	859.66	<i>859.53</i>	859.40
© BEAM 4, 15, 26	STATION	469+18.75	469+29.91	469+41.07	469+52.21	469+63.34	469+74.49	469+85.62	469+96.75	470+07.88	470+19.00	470+30.13	470+41.26	470+52.39
	ELEVATION	860.52	860.47	860.42	860.36	860.28	860.21	860.12	860.03	859.92	859.82	859.70	859.57	859.44
© BEAM 5, 16, 27	STATION	469+20.69	469+31.83	469+42.97	469+54.11	469+65.23	469+76.37	469+87.50	469+98.64	470+09.77	470+20.89	470+32.02	470+43.15	470+54.28
	ELEVATION	860.58	860.53	860.47	860.41	860.34	860.26	860.17	860.07	859.97	859.86	859.74	<i>859.62</i>	859.48
PROFILE GRADE	STATION	469+21.65	469+32.79	469+43.93	469+55.05	469+66.18	469+77.32	469+88.45	469+99.58	470+10.71	470+21.83	470+32.96	470+44.09	470+55.23
	ELEVATION	860.61	860.56	860.50	860.43	860.36	860.28	860.19	860.10	859.99	859.88	859.76	859.64	859.50
© BEAM 6, 17, 28	STATION	469+22.62	469+33.75	469+44.88	469+56.00	469+67.12	469+78.26	469+89.39	470+00.52	470+11.65	470+22.78	470+33.91	470+45.04	470+56.17
¥ DEAM O, II, 20	ELEVATION	860.63	860.58	860.53	860.46	860.39	860.31	860.22	860.12	860.02	859.90	859.79	859.66	<i>859.52</i>
© BEAM 7, 18, 29	STATION	469+24.54	469+35.66	469+46.78	469+57.89	469+69.01	469+80.15	469+91.28	470+02.41	470+13.54	470+24.67	470+35.80	470+46.93	470+58.06
¥ DEAM 1, 10, 29	ELEVATION	860.69	860.64	860.58	860.51	860.44	860.36	860.27	860.17	860.06	<i>859.95</i>	859.83	859.70	<i>859.56</i>
© SURVEY S.R. 235	STATION	469+25.50	469+36.61	469+47.73	469+58.84	469+69.95	469+81.09	469+92.22	470+03.35	470+14.48	470+25.61	470+36.74	470+47.87	470+59.00
₹ 30N VET 3.N. 233	ELEVATION	860.72	860.67	860.61	860.54	860.46	860.38	860.29	860.19	860.08	859.97	<i>859.85</i>	859.72	859.58
¢ BEAM 8, 19, 30	STATION	469+26.46	469+37.56	469+48.67	469+59.79	469+70.90	469+82.04	469+93.17	470+04.30	470+15.48	470+26.55	470+37.68	470+48.81	470+59.94
₹ DLAW 0, 13, 30	ELEVATION	860.75	860.69	860.63	860.56	860.49	860.40	860.31	860.21	860.11	859.99	859.87	859.74	859.60
© BEAM 9, 20, 31	STATION	469+28.37	469+39.47	469+50.57	469+61.68	469+72.79	469+83.93	469+95.06	470+06.19	470+17.32	470+28.44	470+39.57	470+50.70	470+61.83
♥ DLAW 3, 20, JI	ELEVATION	860.80	860.75	860.68	860.62	860.54	860.45	860.36	860.26	860.15	860.04	859.91	859.78	859.64
© BEAM 10, 21, 32	STATION	469+30.29	469+41.37	469+52.46	469+63.56	469+74.67	469+85.81	469+96.94	470+08.07	470+19.20	470+30.33	470+41.46	470+52.59	470+63.72
Y DLAW IV, ZI, JZ	ELEVATION	860.86	860.80	860.74	860.67	860.59	860.50	860.41	860.31	860.20	860.08	859.96	859.82	859.68
© BEAM 11, 22, 33	STATION	469+31.96	469+43.03	469+54.12	469+65.22	469+76.33	469+87.46	469+98.59	470+09.73	470+20.86	470+31.98	470+43.11	470+54.24	470+65.37
₩ DEAM II, ZZ, JJ	ELEVATION	860.90	860.85	860.78	860.71	860.63	860.55	860.45	860.35	860.24	860.12	859.99	859.86	859.72
RIGHT TOE OF PARAPET	STATION	469+32.19	469+43.27	469+54.35	469+65.45	469+76.56	469+87.70	469+98.83	470+09.96	470+21.09	470+32.22	470+43.35	470+54.48	470+65.61
KIGHT TOE OF PARAPET	ELEVATION	860.91	860.85	860.79	860.72	860.64	860.55	860.46	860.35	860.24	860.12	860.00	859.86	859.72

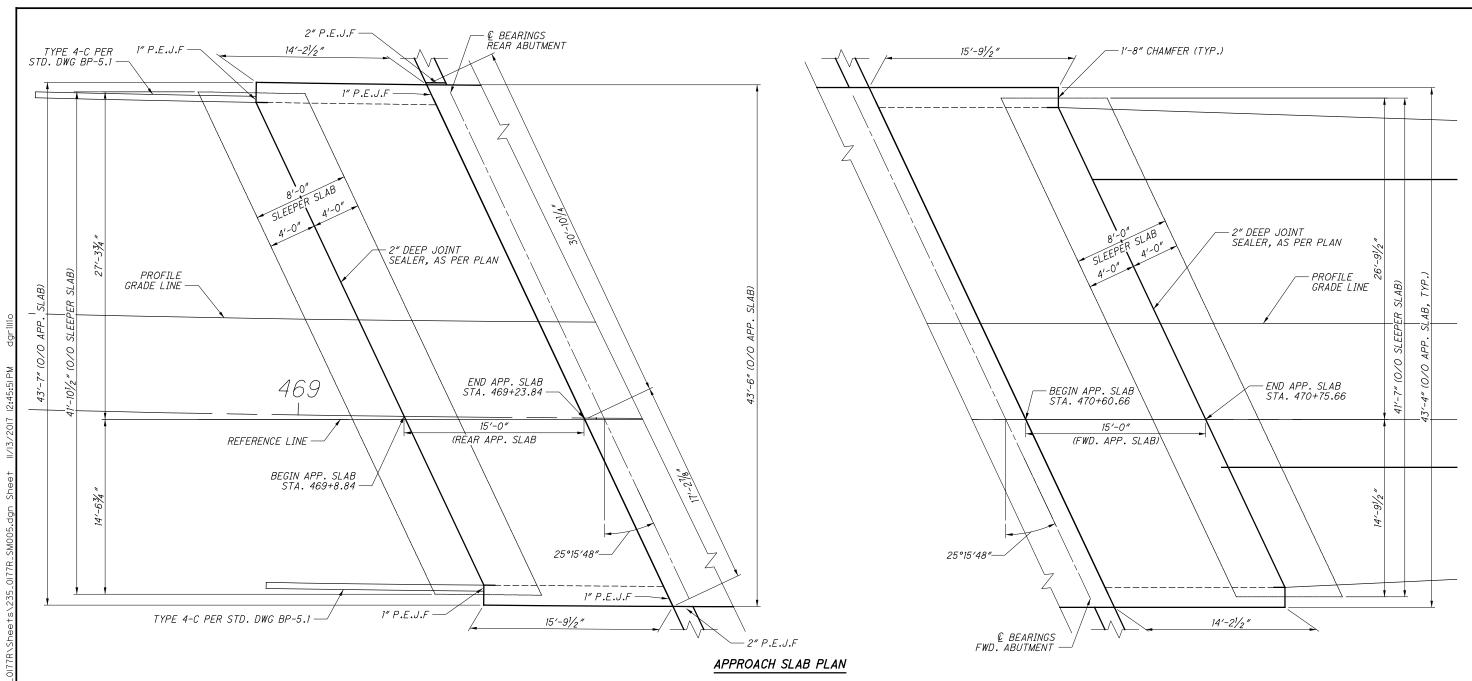
NOTES

- 1. SCREED ELEVATIONS SHOWN REPRESENT THE THEORETICAL DECK SURFACE LOCATION PRIOR TO DEFLECTIONS CAUSED BY DECK PLACEMENT AND OTHER ANTICIPATED DEAD LOADS.
- 2. FINAL DECK SURFACE ELEVATIONS SHOWN REPRESENT THE DECK SURFACE LOCATION AFTER ALL ANTICIPATED DEAD LOAD DEFLECTIONS HAVE OCCURRED.

8 SUPERSTRUCTURE DETAILS (3 OF BRIDGE NO.: MOT-235-0177R N.B. S.R. 235 OVER S.B. S.R. 235/4 RA

DESIGN AGENCY
ODOT DISTRICT 7
PLANNING & ENGINEERING

MOT-235-1,77R No. 97242 PID



NOTES & LEGEND:

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- 1. FOR ADDITIONAL APPROACH SLAB NOTES AND DETAILS, REFER TO STANDARD BRIDGE DRAWING AS-1-15.
- 2. FOR ADDITIONAL APPROACH SLAB INSTALLATION NOTES
 AND DETAILS, REFER TO STANDARD BRIDGE DRAWING AS-2-15.
- 3. FOR ADDITIONAL CONCRETE CURB NOTES AND DETAILS,
 REFER TO ROADWAY STANDARD CONSTRUCTION DRAWING BP-5.1
- 4. STATION AND OFFSETS ARE TAKEN FROM THE CENTERLINE OF SURVEY N.B. S.R. 235.
- 5. APPROACH SLAB CONCRETE CANNOT BE PLACED WITH THE DECK CONCRETE.

P.E.J.F - PREFORMED EXPANSION JOINT FILLER

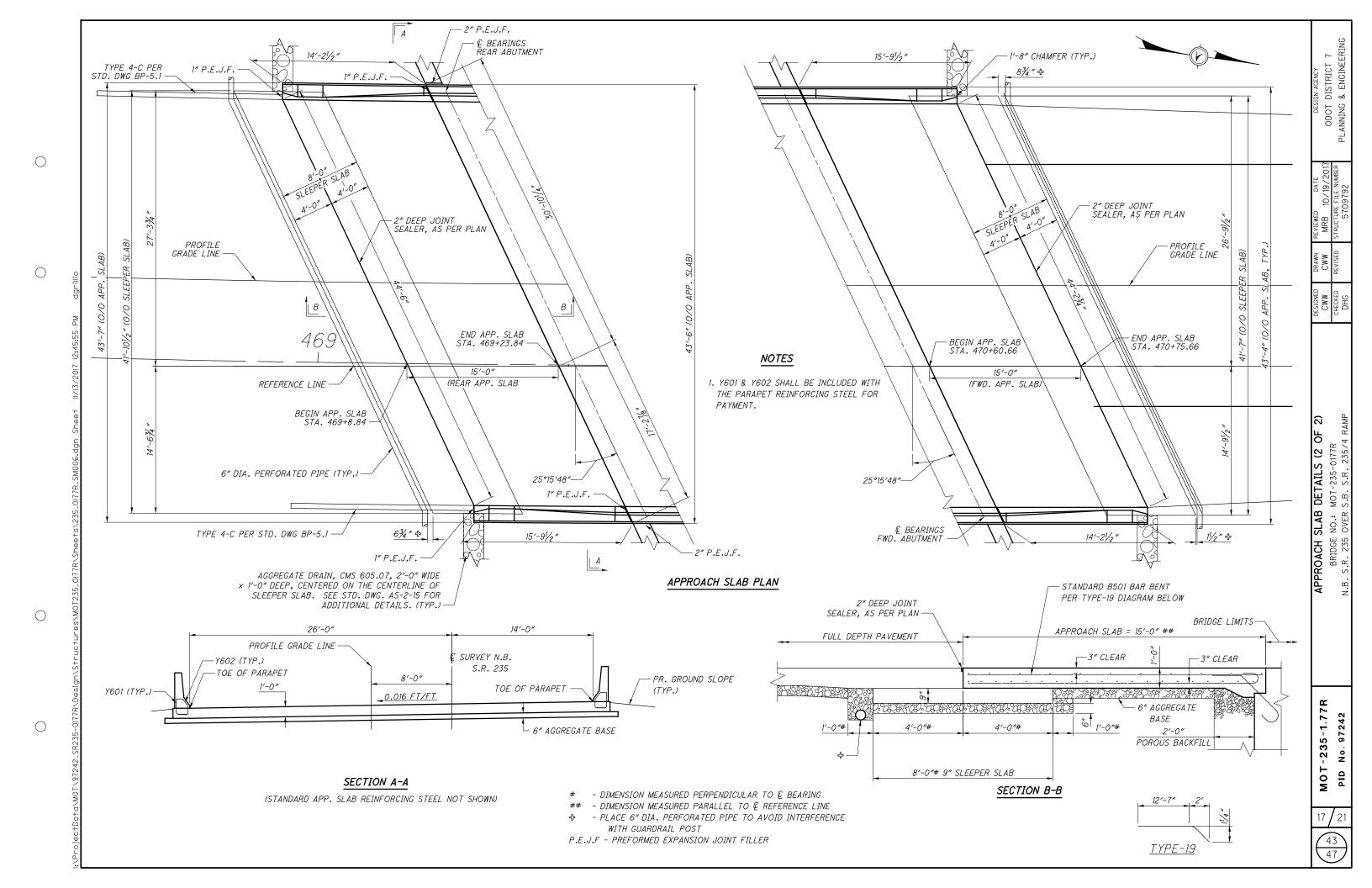
°.E.J.F CH SLAB	PLAN	23	[- 5°15′48″ FWD. AB	EARINGS UTMENT	\		14'-21/2"		14'-9	1	APPROACH SLAB DETAILS (1 O BRIDGE NO.: MOT-235-0177R N.B. S.R. 235 OVER S.B. S.R. 235/4
				TOP OF APP	PROACH SLAB	FI FVATIONS					
		LEFT	TOE OF PAR			ROFILE GRAL	DE .	RIGHT	RAPET		
LC	DCATION	STATION	OFFSET	ELEVATION	STATION	OFFSET	ELEVATION	STATION	OFFSET	ELEVATION	
C C	0.0 L	468+96.06	26	860.40	469+04.94	8	860.67	469+15.61	14	860.98	
REAR APP. SLAB	0.5 L	469+3.65	26	860.38	469+12.46	8	860.64	469+23.07	14	860.95	
# 4 W	1.0 L	469+11.23	26	860.36	469+19.98	8	860.61	469+30.54	14	860.92	
• • •	0.0 L	470+48.39	26	859.29	470+56.88	8	859.47	470+67.27	14	859.69	
FWD. APP. SLAB	0.5 L	470+55.89	26	859.20	470+64.38	8	859.38	470+74.77	14	859.59	7R
4 4 00	1.0 L	470+63.39	26	859.10	470+71.89	8	859.29	470+82.27	14	859.49	1.77
				TOP OF SL	EEPER SLAB E	LEVATIONS					
1.0	DCATION		LEFT EDGE		Р	ROFILE GRAL			RIGHT EDGE		ا شا
LC		STATION	OFFSET	ELEVATION	STATION	OFFSET	ELEVATION	STATION	OFFSET	ELEVATION	-23 No.
	0.0 L	468+91.15	26.79	859.34	469+00.47	8	859.68	469+11.57	14.79	860.00	T a
R PER B					1 400.04 04	8	859.66	469+15.99	14.79	859.99	MO
REAR EEPER SLAB	0.5 L	468+95.66	26.79	859.36	469+04.94	0					1 2 1
REAR SLEEPER SLAB	1.0 L	469+00.17	26.79	859.38	469+09.40	8	859.65	469+20.41	14.79	859.97	2
). REAR PER SLEEPER B SLAB	1.0 L 0.0 L	469+00.17 470+58.59	26.79 26.79	859.38 858.15	469+09.40 470+67.47		859.65 858.34	469+20.41 470+78.21	14.79 14.79	858.55	<u> </u>
FWD. REAR SLEEPER SLEEPER SLAB SLAB	1.0 L	469+00.17	26.79	859.38	469+09.40	8	859.65	469+20.41	14.79		16 / 21

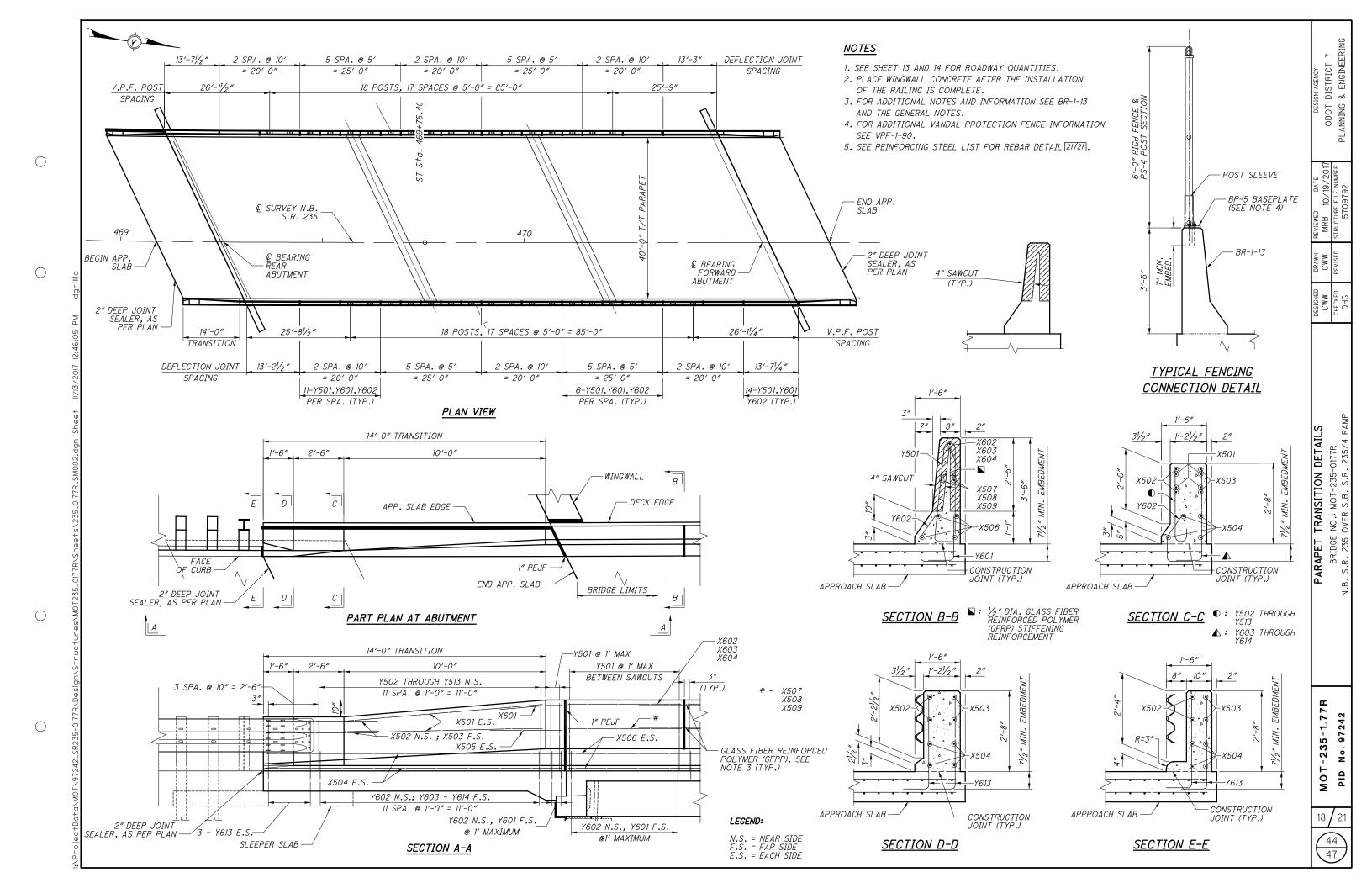
DISTRICT 7

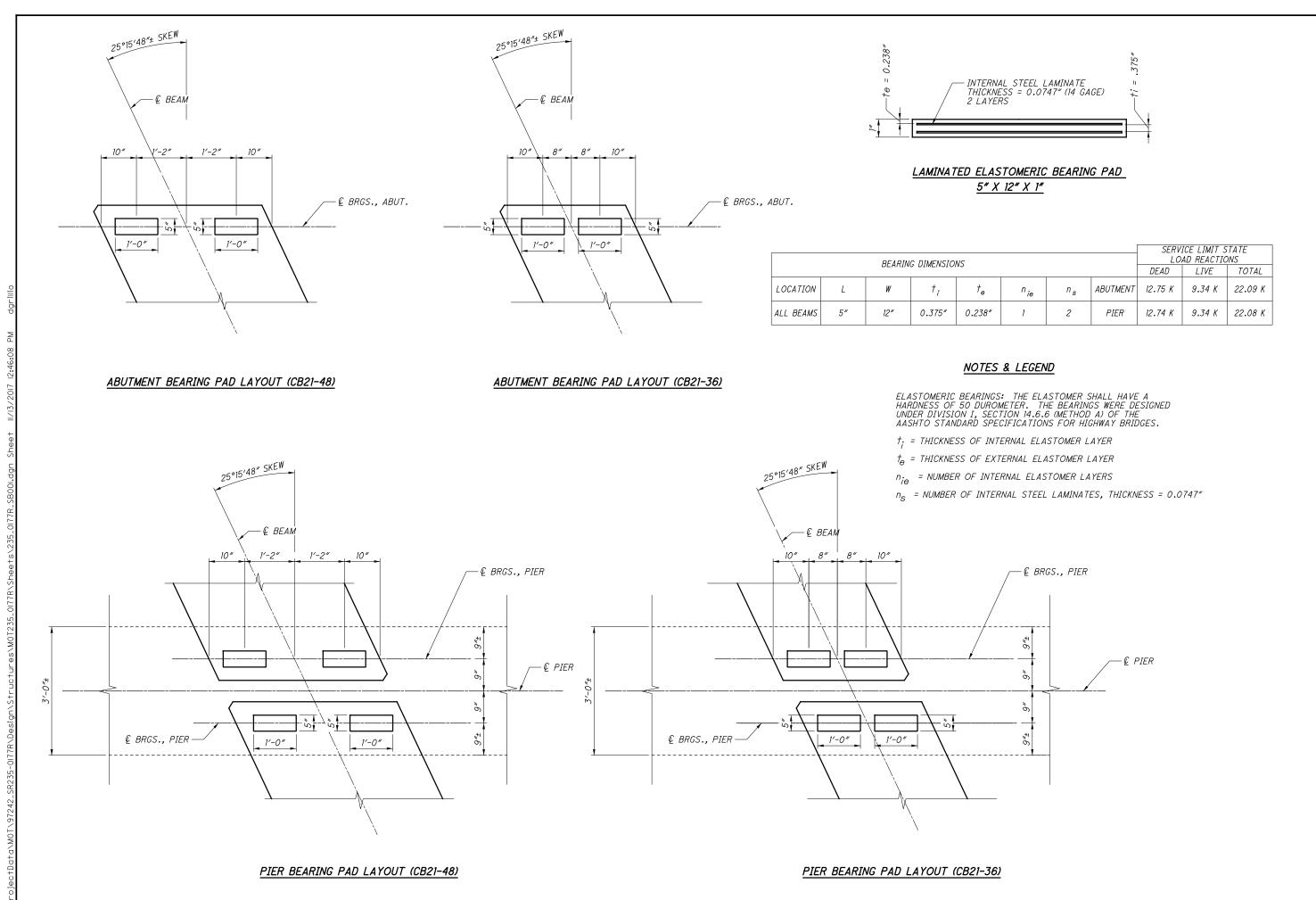
R ENGINEERING

ODOT [

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DESIGN AGENCY ODOT DISTRICT 7 PLANNING & ENGINEERING

BRIDGE NO.: MOT-235-0177R S.R. 235 OVER S.B. S.R. 235/4

MOT-235-1.77R

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NUMBER

REAR | FORWARD | TOTAL

LENGTH

MARK

					URE	TRUCT	SUBSI					
2				3′-6″	1'-0"	1	9	4'-4"	2		2	A501
30				3′-2″	1'-0"	1	125	4'-0"	30	22	8	A502
10				3'-4"	1'-0"	1	43	4'-2"	10		10	A503
						STR	19	6'-2"	3		3	A504
						STR	21	6′-7″	3		3	A505
						STR	34	5′-5″	6	3	3	A506
						STR	32	5'-0"	6	3	3	A507
						STR	19	6'-0"	3	3		A508
						STR	20	6′-5″	3	3		A509
			1'-0"	1′-0″	2′-7″	18	761	4'-9"	60	30	30	D801
42	B-TOTAL	SUE	 ļ.				1,083	B-TOTAL	Sl		Į.	
					TURE		SUPERS					
						STR	160	30'-0"	8			S401
						STR	105	19′-7″	8			S402
						STR	420	25'-2"		8	8	S501
				0'-11"	1'-2"	3	313	4'-10"		31	31	S502
			2'-2"	0'-8"	2'-2"	2	307	4'-9"		31	31	S503
				0'-11"	1'-8"	3	24	5′-10″		2	2	S504
			2'-2"	1'-2"	2'-2"	2	22	5′-3″		2	2	S505
					2'-8"	17	352	3′-10″	88			S506
	-					STR	8246	30'-0"	183			S601
						STR	5681	20'-8"	183			S602
						STR	5407	30'-0"	120			5603
						STR	1284	28'-6"	30			5604
						STR	2701	31'-0"	58			S605
						STR	90	30'-0"	2			S606
						STR	62	20′-7″	2			S607
	TOTAL	CUI					0E 171	ID TOTAL	CI			
I	B-TOTAL	SUE				I	25,174	B-TOTAL	SU			

TYPE

WEIGHT

DIMENSIONS

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INC

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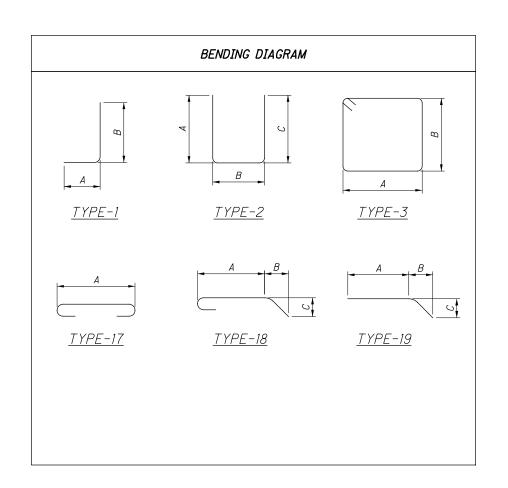
NOTES & LEGEND

DOWEL

THE BAR SIZE NUMBER IS SPECIFIED ON THE PLANS IN THE BAR MARK COLUMN INDICATED BY THE FIRST DIGIT.

BAR DIMENSIONS ARE SHOWN OUT TO OUT UNLESS OTHERWISE NOTED.

ALL REINFORCING STEEL TO BE EPOXY COATED.





MOT-235-1,77R

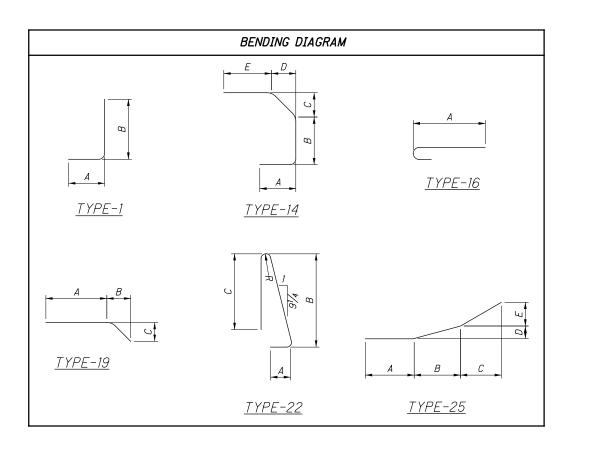
MARK		LENGTH	WEIGHT	YPE	DIMENSIONS									
	TOTAL			-	Α	В	С	D	E	R	INC			
			PARAI	PET A	ND TR	ANSITI	ONS							
					1	1								
X501	16	10'-0"	167	STR										
X502	8	5'-8"	47	25	1'-10"	2'-5"	1'-4 1/4"	0'-1 1/2"	0'-5"					
X503	8	5′-8″	47	STR										
X504	16	13′-10″	231	STR										
X505	8	3′-7″	30	STR										
X506	40	30'-0"	1252	STR										
X507	40	4′-8″	195	STR										
X508	24	9′-8″	242	STR										
X509	8	13′-3″	111	STR										
X601	4	3'-1"	19	19	2'-4 1/4"	0'-8 3/4"	0'-0 3/4"							
X602	20	4′-8″	140	STR										
X603	12	9′-8″	174	STR										
X604	4	13′-3″	80	STR										
Y501	316	6′-11″	2280	22	0'-8"	3′-3″	3′-0″			0'-1 1/2"				
Y502	4	3′-10″	16	16	3′-3″									
Y503	4	3′-9″	16	16	3'-2"									
Y504	4	3′-8″	15	16	3′-1″									
Y505	4	3′-7″	15	16	3'-0"									
Y506	4	3′-6″	15	16	2'-11"									
Y507	4	3′-5″	14	16	2'-10"									
Y508	4	3'-4"	14	16	2'-9"									
Y509	4	3'-3"	14	16	2'-8"									
Y510	4	3′-2″	13	16	2'-7"									
Y511	4	3'-1"	13	16	2'-6"									
Y512	4	3′-0″	13	16	2'-5"									
Y513	4	2'-11"	12	16	2'-4"									
Y601	316	2'-5"	1147	1	1'-0"	1'-6 1/2"			4. 7"					
Y602	364	3'-1"	1686	14	1'-0"	0'-10"	0'-8 1/2"	0'-6"	0'-7"					
Y603	4	4'-10"	29	1	1'-0"	3'-11 1/2"								
Y604	4	4'-9"	29	1	1'-0"	3'-10 1/2"				1	-			
Y605	4	4'-8"	28	1	1'-0"	3'-9 1/2"					-			
Y606	4	4'-7"	28	1	1'-0"	3'-8 1/2"					-			
Y607	4	4'-6"	27	1	1'-0"	3'-7 1/2"								
Y608	4	4'-5"	27	1	1'-0"	3'-6 1/2"								
Y609	4	4'-4"	26	1	1'-0"	3'-5 1/2"								
Y610	4	4'-3"	26	1	1'-0" 1'-0"	3'-4 1/2"				1				
Y611	4	4'-2" 4'-1"	25 25	1	1'-0"	3'-3 1/2" 3'-2 1/2"				1				
Y612	4		25	1		3'-2 1/2"				1				
Y613 Y614	28	4'-0" 3'-11"	168 24	1 1	1'-0"					1				
1014	4	J -11"	24	1	1 -0"	3'-0 1/2"				1				
		IB-TOTAL	8,480	+		1		L						

NOTES & LEGEND

THE BAR SIZE NUMBER IS SPECIFIED ON THE PLANS IN THE BAR MARK COLUMN INDICATED BY THE FIRST DIGIT.

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ALL REINFORCING STEEL TO BE EPOXY COATED.



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MOT-235-1,77R PID No. 97242

21/21



SPECIAL PROVISIONS

OEPA Notification of Demolition and Renovation FOR

CRS:	MOT-235-0177R
DATE:	02/10/2014

The following form is the OEPA Notification of Demolition and Renovation form for the existing structure MOT-235-0177R structure.

These sections of the Notification form need to be completed prior to submission:

- V. Other Operator: (demolition/general) Include the name and address of the general contractor
- VII. Scheduled Dates Demolition Or Renovation: Include both the estimated start and completion dates
- X. Description of planned Demolition
- XVIII. A signature or the owner, date, and title

The form must be submitted at least 10 working days in advance of the start of demolition.

The form (with mandatory fee) should be submitted to:

Asbestos Program ©
Ohio EPA, DAPC ©
P.O. Box 1049©
Columbus, OH 43216-1049©

OHIO ENVIRONMENTAL PROTECTION AGENCY NOTIFICATION OF DEMOLITION AND RENOVATION

Page 1 of 2

	Operator Proj	ect#	Postma	ırk		Date	Received	Notific	cation#
I.	Type of Notifi	cation (check o	ne): X O	riginal		Revised	i [] Canceled	
II.	Building Name Address: See A City: <u>Dayton</u> Site Location (Building Size	e: Bridge MOT- Above State: <u>OHIO</u> specific):	of Floors:	NB Overpa	iss of I- Cour	70 on SR 23	omery		
IV.	Is Asbestos Pi	esent? (check o	one):	es	X No				
v.	Address: 1001 City: Sidney S Contact: Ms Removal Con	Ohio Departm St. Mary's Aver State: Ohio Zip Tricia Bishop tractor Name:		9 <u>6</u> 9 <u>69</u> 37)-497-67	21 Fax			ense#	
	City:					State:		Zip Code:	
	Contact:			Teleph	one: _(Fax	:_()	
	Other Operat	or (demolition/	general):				Lic	ense #	
	City:					State:		Zip Code: : _()	
	Contact:			Telepho	one: _(rax	mate the quantity	
asbe	al inspection for stos content by I	suspect asbesto olarized Light l	nonfriable ACM s containing mat Microscopy becialist: Name:	erials. Sus		bestos conta		were sampled and a	
			beetes Nectorials	. Mono Id	antific	!			
VII.	Approximate	Amount of Asi	pestos Materials	. INDIC IG				31 6:11 6	
					No		estos Material	1	bestos Material e Removed
			RACM to be F	Removed		to be Re	moved		1
					Ca	tegory I	Category II	Category I	Category II
Pine	s (linear feet)		Not Applic	able					
	ace Area (square	feet)	Not Applie						
	ity Components		Not Applie						
	1	·	or Renovation:	Start:			Con	plete:	
								plete:	
IX.	Dates for Ash	estos Removal	(MM/DD/YY)	Start: _					
Day	s of the Week:	Monday	Tuesday	Wedne	sday	Thursda	y Friday	Saturday	Sunday
Hou	irs of Operation:								
	Complete all uns	haded spaces, exce	pt demolitions which	ch involve le	ss than 2	:60 linear feet,	160 square feet, o	r 35 cubic feet of RAC	M, need not

OHIO ENVIRONMENTAL PROTECTION AGENCY NOTIFICATION OF DEMOLITION AND RENOVATION

Page 2 of 2

X.	Description of planned Demolition or Renovat demolition or renovation techniques to be used	ion work to be peri I and description o	formed and met f affected facility	hod(s) to be employed, including y components: N/A
XI.	Description of work practices and engineering removal and waste handling emission control p		to comply with	the requirements, including asbestos
XII.	Waste Transporter #1			
	Name:Address:			
	City:	S	tate:	Zip Code:
	City:Contact:	Telephor	ie: _()	Fax: _()
	Waste Transporter #2			
	Name:			
	Address:	S	tate:	Zip Code:
	Address: City: Contact:	Telephor	ie: ()	Fax: ()
XIII.	Waste Disposal			
	Name:			
	City:	S	tate:	Zip Code:
	Address:	Telephor	ie: _()	Fax: ()
XIV.	Emergency Demolition (complete Item XIV and	all other sections, o	nly if this projec	t is an Emergency Demo.)
E .	1 Attach a constact the Order to this potice			
	2. Name of Authority Issuing Order:			Title:
	3. Authority of Order (Citation of Code):			Data Ordanta Basini
XV.	2. Name of Authority Issuing Order: 3. Authority of Order (Citation of Code): 4. Date of Order (MM/DD/YY): Emergency Renovation (Attach separate sheet w	with the following in	formation of pro	ect is Emergency Reno)
A	1. Date and Hour of the Emergency	The following in	tormation or pro	ter is Emergency Renes,
	2. Description of the Sudden, Unexpected Even	it		
	3. Explanation of how the event caused unsafe	conditions or equipr	nent damage or a	n unreasonable financial burden.
XVI.	Description of procedures to be followed in the crumbled, pulverized or reduced to powder.	e event that unexpe	cted RACM is f	ound or nonfriable ACM becomes
XVII.	I certify that an individual trained in the producing the Demolition or Renovation and exwill be available during normal business hou	idence that the req	PS (40 CFR PA) nired training h	RT 61, SUBPART M) will be on-site as been accomplished by this person
	Signature of Owner/Operator	Date	Туре о	r Print Name and Title
XVIII	I. I acknowledge the existence of laws prohibit facts contained in this notification are true, a	ing the submission accurate, and comp	of false or miste lete.	ading statements and I certify that
	Signature of Owner/Operator	Date	Туре о	r Print Name and Title
	Original Notification must be mailed or hand d Before demolitions or renovation begins, exce Which must be submitted as soon a	ept emergency demolit	ions and emergene	y renovations (see regulation)

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