

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION
SUM-76-10.00
MAIN/BROADWAY INTERCHANGE
CITY OF AKRON, SUMMIT COUNTY

PROJECT DESCRIPTION

THIS PROJECT CONSISTS OF MAJOR RECONFIGURATION OF AN URBAN INTERCHANGE, IR 76 AND ASSOCIATED ROADWAYS, SOUTH MAIN STREET AND SOUTH BROADWAY STREET. APPROXIMATELY 0.98 MILES OF IR 76, 2.02 MILES OF LOCAL ROADS, AND 9 BRIDGES ARE TO BE RECONSTRUCTED. THIS WORK ALSO CONSISTS OF THE INSTALLATION OF NEW TRAFFIC SIGNALS, NECESSARY TRAFFIC CONTROL DEVICES, INTERCHANGE AND LOCAL STREET LIGHTING, UTILITY RELOCATION, DRAINAGE, RIGHT OF WAY ACQUISITION, AND BUILDING DEMOLITION.

PROJECT EARTH DISTURBED AREA: 75.8 ACRES
ESTIMATED CONTRACTOR EARTH DISTURBED AREA: 2.9 ACRES
NOTICE OF INTENT EARTH DISTURBED AREA: N/A*
*RUNOFF IS COLLECTED IN A COMBINED SEWER THEREFORE A NOI IS NOT REQUIRED.

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.

2013 SPECIFICATIONS

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

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL REQUIRE THE PART-TIME CLOSING OF THE HIGHWAY TO TRAFFIC, AS NOTED ON THE SHEETS 88 TO 105. DURING WHICH TIME DETOURS WILL BE PROVIDED AS SHOWN HEREIN. PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.

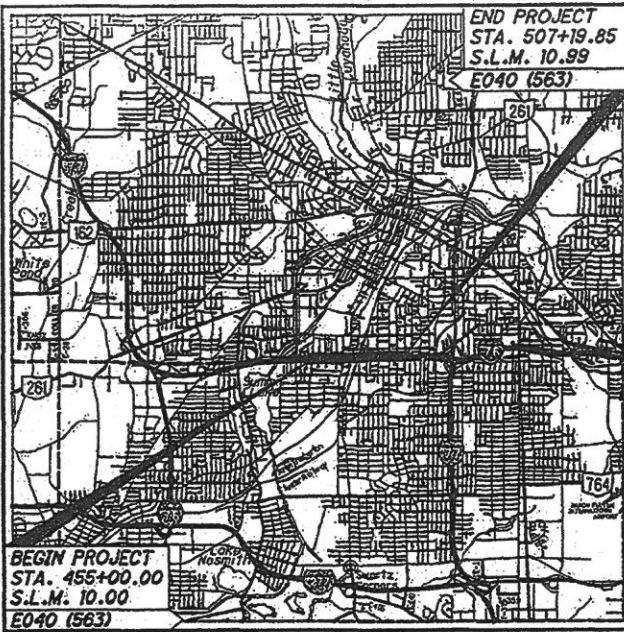
APPROVED *[Signature]*
DATE 12-2-15 DISTRICT DEPUTY DIRECTOR

APPROVED *[Signature]*
DATE 1-9-16 DIRECTOR, DEPARTMENT OF TRANSPORTATION

APPROVED *[Signature]*
DATE 8/6/15 BUREAU OF WATER SUPPLY MANAGER

APPROVED *[Signature]*
DATE 8/16/15 CITY ENGINEER

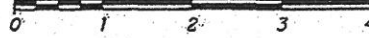
APPROVED *[Signature]*
DATE 8/16/15 DIRECTOR OF PUBLIC SERVICE



LOCATION MAP

LATITUDE: N41°03'45" LONGITUDE: W81°31'40"

SCALE IN MILES



PORTION TO BE IMPROVED	_____
INTERSTATE HIGHWAY	_____
FEDERAL ROUTES	_____
STATE ROUTES	_____
COUNTY & TOWNSHIP ROADS	_____
OTHER ROADS	_____

DESIGN DESIGNATION

SEE SHEET 3

DESIGN EXCEPTIONS

THORNTON AVENUE

DESIGN FEATURE	APPROVAL DATES	SHEET NUMBERS
VERTICAL ALIGNMENT	NOVEMBER 12, 2014	606 & 608

UNDERGROUND UTILITIES

CONTACT BOTH SERVICES
CALL TWO WORKING DAYS
BEFORE YOU DIG

CALL 1-800-362-2764 (TOLL FREE)

OHIO UTILITIES PROTECTION SERVICE
NON-MEMBERS
MUST BE CALLED DIRECTLY.

OIL & GAS PRODUCERS UNDERGROUND
PROTECTION SERVICE CALL: 1-800-925-0988

PLAN PREPARED BY:

URS

564 WHITE POND DRIVE
AKRON, OHIO 44320

ENGINEERS SEAL:



SIGNED: *[Signature]*
DATE: DECEMBER 10, 2015

STANDARD CONSTRUCTION DRAWINGS										SUPPLEMENTAL SPECIFICATIONS		SPECIAL PROVISIONS	
BP-2.1	7/17/15	MGS-1.1	7/19/13	A-1-69	7/19/02	MT-95.30	7/18/14	TC-7.65	10/18/13	800-2013	1/15/16		
BP-2.2	7/18/08	MGS-2.1	7/19/13	AS-1-81	1/18/13	MT-95.40	7/18/14	TC-9.10	1/17/14	804	1/16/15		
BP-2.3	7/18/14	MGS-2.3	7/18/14	BR-2-98	7/20/12	MT-95.41	7/18/14	TC-12.30	10/18/13	815	1/19/07		
BP-2.5	7/19/13	MGS-3.1	7/18/14	EX-J-4-87	7/19/02	MT-95.50	10/16/15	TC-16.21	10/18/13	816	1/20/12		
BP-3.1	7/18/14	MGS-3.2	1/18/13	GSD-1-96	7/19/02	MT-95.71	7/19/13	TC-21.10	10/18/13	823	7/18/14		
BP-4.1	7/19/13	MGS-4.2	7/19/13	NBS-1-09	7/17/15	MT-96.10	7/18/14	TC-21.20	1/16/15	832	1/17/14		
BP-5.1	7/19/13	MGS-4.3	1/18/13	PCB-91	1/18/13	MT-98.20	7/19/13	TC-21.50	10/18/13	833	7/17/15		
BP-7.1	7/18/14	MGS-5.2	7/19/13	SBR-1-13	1/17/14	MT-100.00	7/19/13	TC-22.10	10/18/13	836	1/18/13		
BP-9.1	7/19/13	MGS-6.1	7/19/13	SBR-2-13	1/17/14	MT-101.60	7/19/13	TC-22.20	1/17/14	839	7/17/15		
		MGS-6.2	1/18/13	SICD-1-96	7/18/14	MT-101.70	1/17/14	TC-41.10	7/19/13	840	7/17/15		
CB-1.1	1/18/13	GR-6.3	1/20/12	SICD-2-14	7/18/14	MT-102.10	7/18/14	TC-41.20	10/18/13	902	12/31/12		
CB-1.2	1/18/13			VFP-1-90	7/17/15	MT-102.20	7/18/14	TC-41.30	10/18/13	904	1/16/15		
CB-2.1	1/18/13	HW-2.1	7/17/15			MT-102.30	10/16/15	TC-41.40	10/18/13	906	10/15/10		
CB-2.2	1/17/14	HW-2.2	7/17/15	HL-10.11	1/17/14			TC-41.41	10/18/13	907	1/20/12		
CB-2.3	1/18/13			HL-10.12	1/17/14			TC-41.50	10/18/13	939	7/17/15		
CB-3.1	1/18/13	I-2.1	1/17/14	HL-10.13	7/17/15			TC-42.10	10/18/13	992	4/18/14		
CB-3.2	1/18/13	I-2.2	1/17/14	HL-10.31	7/17/15			TC-42.20	10/18/13				
CB-4.2	1/18/13	I-2.3	1/17/14	HL-20.11	1/16/15			TC-51.11	1/17/14				
				HL-20.13	7/18/14			TC-51.12	1/17/14				
DM-1.1	1/18/13	LA-1.1	10/15/10	HL-20.14	1/16/15			TC-52.10	10/18/13				
DM-1.2	1/18/13			HL-20.21	1/17/14			TC-52.20	7/18/14				
DM-1.3	7/18/14	MH-1.1	1/18/13	HL-20.24	7/18/14			TC-61.10	1/17/14				
DM-3.1	1/18/13	MH-1.2	1/18/13	HL-30.11	1/16/15			TC-61.30	7/18/14				
DM-4.1	7/19/13	MH-1.3	1/18/13	HL-30.21	1/17/14			TC-65.10	1/17/14				
DM-4.2	7/20/12	MH-3.1	1/18/13	HL-30.22	1/17/14			TC-65.11	7/18/14				
DM-4.3	7/19/13			HL-30.31	1/17/14			TC-71.10	1/17/14				
DM-4.4	7/20/12	RM-1.1	7/18/14	HL-30.32	1/17/14			TC-72.20	7/18/14				
		RM-3.1	7/19/13	HL-30.33	1/17/14			TC-81.21	7/17/15				
F-1.1	7/19/13	RM-4.3	7/18/14	HL-30.41	7/18/14			TC-83.20	7/17/15				
F-2.1	7/19/13	RM-4.4	7/18/14	HL-40.20	1/16/15			TC-85.10	10/18/13				
F-3.1	7/19/13	RM-4.5	7/18/14	HL-50.11	1/16/15			TC-85.20	1/16/15				
F-3.3	7/19/13	RM-4.6	7/19/13	HL-50.21	1/16/15								
F-3.4	7/19/13			HL-60.11	1/17/14								
		WQ-1.1	1/18/13	HL-60.12	1/17/14								
		WQ-1.2	1/18/13	HL-60.21	1/16/15								
				HL-60.31	7/17/15								

FEDERAL PROJECT NO.
E040 (563)

PID NO.
77269

CONSTRUCTION PROJECT NO.

RAILROAD INVOLVEMENT
CSX TRANSPORTATION, INC.
AKRON BARBERTON CLUSTER RAILWAY, INC.

SUM-76-10.00

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1822

SUM-76-10.00
160219 PID-77269
Dist 4 5/12/2016

Contract Proposal Available
@ www.contracts.dot.gov
state.oh.us/home

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TEMPORARY GRAVEL PARKING LOT

TEMPORARY GRAVEL PARKING LOT TO BE BUILT BEFORE YALE ST. IS CLOSED FOR CONSTRUCTION. ACCESS MUST BE MAINTAINED WITH TEMPORARY WALK AT ALL TIMES REGARDLESS OF THE EXISTING CONDITION, PROPOSED CONDITION AND TEMPORARY CONDITION. THE TEMPORARY WALK LOCATION(S) TO BE AS DIRECTED BY THE ENGINEER. YALE ST. MUST BE OPENED TO TRAFFIC IN 21 DAYS OF BEING CLOSED FOR CONSTRUCTION. THE WORK REQUIRED FOR THE CONSTRUCTION OF THE TEMPORARY GRAVEL PARKING LOT INCLUDES GRADING THE SITE, SUBGRADE COMPACTION, PLACEMENT OF THE GRAVEL, REMOVAL OF THE GRAVEL, AND THE PLACEMENT OF SEEDING AND MULCHING. THE FOLLOWING ESTIMATED QUANTITIES WILL BE USED FOR THE TEMPORARY GRAVEL PARKING LOT AND CARRIED TO THE GENERAL SUMMARY:

ITEM 204 - SUBGRADE COMPACTION	315 SY
ITEM 304 - 8" AGGREGATE BASE, AS PER PLAN C	158 CY
ITEM 608 - TEMPORARY ASPHALT CONCRETE WALK	1000 SF
ITEM 659 - SEEDING AND MULCHING	453 SY

AIRWAY/HIGHWAY CLEARANCE FOR AIRPORTS AND HELIPOINTS

THIS PROJECT HAS BEEN IDENTIFIED AS BEING WITHIN THE INFLUENCE AREA OF A PUBLIC USE AIRPORT OR HELIPOINT. NO TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT AT MAXIMUM OPERATING HEIGHT SHALL EXCEED A HEIGHT OF 100 FT.. IF ANY TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT WILL EXCEED THIS HEIGHT, FURTHER COORDINATION WITH THE FEDERAL AVIATION ADMINISTRATION (FAA), AND ODOT OFFICE OF AVIATION, WILL BE NECESSARY PRIOR TO ERECTING SUCH TEMPORARY STRUCTURES OR OPERATING SUCH EQUIPMENT ON THE PROJECT. THE CONTRACTOR WILL BE REQUIRED TO SUBMIT FORM 7460-1 TO THE FAA. NOTIFY THE ODOT OFFICE OF AVIATION WHEN SUBMITTING AN FAA FORM 7460-1.

NO TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT SHALL EXCEED THE PERMISSIBLE HEIGHT, UNTIL A COPY OF THE FAA APPROVAL AND ODOT OFFICE OF AVIATION PERMIT HAS BEEN FURNISHED TO THE PROJECT ENGINEER.

EXPRESS PROCESSING CENTER
THE FEDERAL AVIATION ADMINISTRATION
SOUTHWEST REGIONAL OFFICE
AIR TRAFFIC AIRSPACE BRANCH ASW-520
2601 MEACHAN BLVD.
FORT WORTH, TX 76137-4298

OHIO DEPARTMENT OF TRANSPORTATION
OFFICE OF AVIATION
2829 WEST DUBLIN-GRANVILLE ROAD
COLUMBUS, OHIO 43235
614-387-2346

ITEM 607 - FENCE, TYPE CLT, AS PER PLAN

THIS WORK SHALL CONSIST OF THE CONSTRUCTION OF FENCE, TYPE CL AND FENCE, TYPE CLT AS DIRECTED BY THE ENGINEER. ALL NECESSARY LABOR, MATERIALS, AND EQUIPMENT TO FABRICATE, GALVANIZE, CLEAN, SURFACE PROFILE, AND APPLY TWO SHOP COATS (EPOXY/URETHANE) OF PAINT TO THE FENCE ELEMENTS (EXCEPT TO THE PVC COATED FABRIC) SHALL BE INCLUDED. THE FENCE SHALL CONFORM TO ODOT CMS 607 AND STANDARD DRAWING F-1.1 FOR FENCE, TYPE CL AND FENCE, TYPE CLT EXCEPT AS SPECIFIED HEREIN.

LINE POSTS WILL BE LOCATED IN UNCONSOLIDATED FILLS AND SHALL BE ENCASED IN CONCRETE.

PRIOR TO GALVANIZING, ALL CORNERS OF THERMALLY CUT OR SHEARED EDGES SHALL HAVE A 1/16 INCH RADIUS.

MATERIALS FOR FENCE POSTS, BRACES, TIES, BARS AND RODS SHALL BE IN ACCORDANCE WITH AASHTO M181 FOR TYPE 1 (ZINC COATED STEEL), GRADE 1 OR 2. IF GRADE 2 STEEL IS USED, THE EXTERIOR COATING SHALL BE HOT-DIP ZINC WITHOUT AN ORGANIC TOP COAT. IN ADDITION, ALL FENCE ELEMENTS TO BE PAINTED SHALL NOT BE POST-TREATED WITH WATER QUENCHING NOR CHROMATE CONVERSION COATED, SINCE THEY WILL ADVERSELY AFFECT THE BOND BETWEEN THE GALVANIZED STEEL AND THE PAINT. THE CONTRACTOR SHALL VERIFY THEY HAVE NOT BEEN PERFORMED BY THE GALVANIZING SHOP, AND SHALL PERFORM A SPOT TEST PER ASTM B201 FOR CHECKING THE PRESENCE OF A CHROMATE CONVERSION COATING.

AFTER GALVANIZING, ZINC HIGH SPOTS SUCH AS METAL DRIP LINES AND OTHERS THAT WOULD DETRACT FROM THE PAINT APPEARANCE SHALL BE MADE FLUSH WITH THE SURROUNDING SURFACE BY SSPC-SP2 OR SP3. CARE SHALL BE TAKEN THAT THE BASE GALVANIZED COATING IS NOT REMOVED. REPAIRED AREAS SHALL BE CHECKED FOR REQUIRED COATING THICKNESS.

GALVANIZED COATINGS DAMAGED IN THE SHOP SHALL BE REPAIRED PER ASTM A780 METHOD A3. GALVANIZED COATINGS DAMAGED IN THE FIELD SHALL BE REPAIRED PER ASTM A780 METHOD A1.

AFTER REMOVING HIGH SPOTS THE GALVANIZED COATING SHALL BE CLEANED PER SSPC-SPI. THE CLEANING SOLUTION SHALL BE AN ALKALINE SOLUTION WITH A PH RANGING FROM A MINIMUM OF 11 TO A MAXIMUM OF 12. THIS SOLUTION CAN BE APPLIED BY IMMERSION, SPRAY OR SOFT NYLON BRUSH. IF IMMERSING OR SPRAYING, MAINTAIN A SOLUTION TEMPERATURE OF 140° F TO 180° F. FOLLOW CLEANING WITH A HOT WATER OR HOT PRESSURE WASH RINSE NOT EXCEEDING 1450 PSI. INDIVIDUAL PIECES SHALL BE SEPARATED AND POSITIONED TO FACILITATE DRAINAGE AND DRYING. THE PIECES SHALL BE COMPLETELY DRY BEFORE PROCEEDING.

AFTER CLEANING, THE PIECES SHALL BE ABRASIVE BLASTED PER SSPC-SP7 BRUSH-OFF BLAST CLEANING. THE BLASTING OPERATION SHALL ROUGHEN THE GALVANIZED SURFACE TO AN ANGULAR SURFACE PROFILE OF 0.25 TO 0.50 MILS. THE BLASTING EQUIPMENT, TECHNIQUE AND ABRASIVE MATERIAL SHALL BE SELECTED TO PROVIDE FOR THE SPECIFIED SURFACE PROFILE WITH REMOVAL OF ZINC LAYERS. THE ZINC MILLAGE SHALL NOT BE LESS THAN 3.0 MILS. ALL ABRASIVE RESIDUE SHALL BE REMOVED WITH CLEAN COMPRESSED AIR OR OTHER METHODS ACCEPTABLE TO THE DEPARTMENT. FIELD CONNECTION AREAS SHALL HAVE A UNIFORM GALVANIZED COATING FREE OF LOCAL EXCESSIVE ROUGHNESS WHICH WOULD PREVENT THE FIELD CONNECTION FROM MAKING INTIMATE CONTACT.

ALL PARTS OF THE FENCE (EXCLUDING THE COATED FABRIC) SHALL BE SHOP PAINTED AFTER GALVANIZING. AFTER OBTAINING AN ACCEPTABLE SURFACE PROFILE, SHOP APPLY A TWO-COAT PAINT SYSTEM CONSISTING OF AN EPOXY INTERMEDIATE COAT AN A URETHANE FINISH COAT MEETING THE REQUIREMENTS OF SUPPLEMENTAL SPECIFICATION (SS) 910. THE FINISH COAT SHALL MATCH FEDERAL STANDARDS FS-595B COLOR NO. 27038 (BLACK).

THE EPOXY INTERMEDIATE COATING SHALL BE APPLIED WITHIN 24 HOURS OF THE BRUSH-OFF BLASTING. THE COATING SHALL BE APPLIED PER ITEM 514 EXCEPT THAT REQUIREMENTS FOR SURFACE PREPARATION AND PRIMING SHALL NOT BE PERFORMED. THE COATING SHALL BE SHOP APPLIED AS SPECIFIED IN THESE NOTES WITHOUT THE WORK LIMITATION SPECIFIED IN ITEM 514. FIELD REPAIRS AND TOUCH UPS SHALL FOLLOW WORK LIMITATIONS SPECIFIED PER ITEM 514 AND BE AS DIRECTED BY THE ENGINEER.

THE 9 GAGE (0.148") CORE WIRES OF THE STEEL FABRIC SHALL BE UNIFORMLY GALVANIZED WITH ZINC METAL OF 0.30 OZ/SQ. FT. MINIMUM WEIGHT IN ACCORDANCE WITH ASTM A641. THE GALVANIZED WIRE SHALL THEN BE PVC COATED TO MATCH FEDERAL STANDARD FS-595B COLOR NO. 27038 (BLACK) IN ACCORDANCE WITH ASTM F668, CLASS 2A OR 2B WITH THE FOLLOWING CHANGES:

ITEM 607 - FENCE, TYPE CLT, AS PER PLAN (CONT'D)

A) THE COATING SHALL BE VIRGIN PVC OF 22 MILS THICKNESS FOR CLASS 2A AND 7 MILS FOR CLASS 2B.
B) THE FINISHED FABRIC SHALL BE COMPOSED OF A 2-INCH DIAMOND PATTERN IN WHICH THE INDIVIDUAL PICKETS ARE HELICALLY WOVEN AND INTERWOVEN IN THE FORM OF A CONTINUOUS CHAIN LINK MESH WITH KNUCKLED SELVAGES.
C) ALL PVC COATED FABRIC SHALL BE HANDLED WITH CARE. IF THE PVC COATING IS DAMAGED, THE CONTRACTOR SHALL REPLACE THE FABRIC OR REPAIR THE PVC COATING AS DIRECTED BY THE ENGINEER AT THE CONTRACTOR'S EXPENSE.

EXPOSED SURFACES OF ALL NUTS, BOLTS, AND OTHER ACCESSORIES USED TO ASSEMBLE THE FENCE SHALL BE GALVANIZED AND FIELD PAINTED TO MATCH THE FENCE COMPONENTS.

ITEM SPECIAL - MISC.: VERTICAL CLEARANCE

AFTER ALL CONSTRUCTION HAS BEEN COMPLETED, A REGISTERED SURVEYOR WILL TAKE VERTICAL CLEARANCE MEASUREMENTS AT LOCATIONS INDICATED ON THE APPROVED ODOT FORM (AVAILABLE IN THE DISTRICT 4 STRUCTURES AND PAVEMENT OFFICE). THE FINAL MEASUREMENTS SHALL BE RECORDED ON THE FORM AND SUBMITTED TO THE PROJECT ENGINEER AND THE DISTRICT 4 STRUCTURES AND PAVEMENT ENGINEER. THE RECORD SHALL BEAR THE SEAL OF THE LICENSED SURVEYOR WHO HAS TAKEN THE MEASUREMENTS. THIS WORK SHALL BE PERFORMED AT THE FOLLOWING STRUCTURES:

- BRIDGE NO. SUM-76-1034 L/R
- BRIDGE NO. SUM-76-1041 L/R
- BRIDGE NO. SUM-76-1043
- BRIDGE NO. SUM-76-1044
- BRIDGE NO. SUM-76-1051
- BRIDGE NO. SUM-76-1075
- BRIDGE NO. SUM-76-1085
- BRIDGE NO. SUM-SOUTH-0036
- BRIDGE NO. SUM-BARGE-0116

THE FOLLOWING QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY:

SPECIAL - MISC.: VERTICAL CLEARANCE, 9 EACH

ITEM SPECIAL - PRESSURE RELIEF JOINT, TYPE A

PRESSURE RELIEF JOINT, TYPE A SHALL BE CONSTRUCTED AS PER STANDARD CONSTRUCTION DRAWING BP-2.3. ALL MATERIALS AND LABOR REQUIRED FOR THE COMPLETE INSTALLATION SHALL BE INCLUDED IN THE UNIT PRICE BID PER FOOT OF ITEM SPECIAL - PRESSURE RELIEF JOINT, TYPE A.

PARCEL RELEASE

PARCEL 5 AND 5A WILL NOT BE RELEASED TO THE CONTRACTOR UNTIL AFTER APRIL 4, 2016.

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KMK	3/28/16	ADDED RELEASE NOTE FOR PARCEL 5 AND 5A
REV. BY	DATE	DESCRIPTION

CALCULATED
AWF
CHECKED
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GENERAL NOTES

SUM - 76 - 10.00

ITEM 614 - PORTABLE CHANGEABLE MESSAGE SIGNS, AS PER PLAN (I-76 / I-77)

THE CONTRACTOR SHALL FURNISH, INSTALL, MAINTAIN AND REMOVE, WHEN NO LONGER NEEDED, A PORTABLE 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 SITE. THE LIST CONTAINS CLASS A AND B UNITS WITH MINIMUM LEGIBILITY DISTANCE OF 650 FEET AND 475 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 PORTABLE CHANGEABLE MESSAGE SIGN SHALL BE DELINEATED IN ACCORDANCE WITH C&MS 614.03.

THE PROBABLY PCMS LOCATIONS AND WORK LIMITS FOR THOSE LOCATIONS ARE SHOWN ON THE PLAN. 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 WILL BE 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.

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 PRECONSTRUCTION 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 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.

THE PCMS UNIT SHALL BE MAINTAINED IN GOOD WORKING ORDER BY THE CONTRACTOR IN ACCORDANCE WITH THE PROVISIONS OF 614. 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 TO THE CONTRACTOR ON HIS CONTRACT.

ITEM 614 - PORTABLE CHANGEABLE MESSAGE SIGNS, AS PER PLAN (CONT'D)

THE CONTRACTOR SHALL BE RESPONSIBLE FOR 24 HOURS PER DAY OPERATION AND MAINTENANCE OF THESE SIGNS ON THE PROJECT FOR THE DURATION OF THEIR USE. THE REQUIREMENT TO FURNISH, INSTALL, MAINTAIN AND REMOVE A PCMS UNIT ON THIS PROJECT SHALL NOT IN ANY WAY RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITIES AS OUTLINED IN 614.02.

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 WORK.

ITEM 614, PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN 108 SIGN MONTHS

ADVANCE WORK ZONE INFORMATION (I-76 / I-77)

ADVANCE WORK ZONE INFORMATION SIGNS, AS USED IN THIS NOTE, ARE FIXED MESSAGE TYPES. THE SIGNS ARE TO BE LOCATED AT EXTREME DISTANCE FROM THE WORK AREA, AS SHOWN IN THE PLANS.

THE SIGNS SHALL BE BLACK ON ORANGE (INCLUDING A BLACK BORDER). THE LAYOUT SHALL BE IN CONFORMANCE WITH TEM SECTION 211.

WHEN REGULATORY INFORMATION IS PROVIDED, IT SHALL BE DISPLAYED SEPARATELY AS A STANDARD BLACK-ON-WHITE SIGN. MIXING OF BLACK-ON-WHITE REGULATORY INFORMATION ON A BLACK-ON-ORANGE INFORMATION SIGN IS PROHIBITED.

IF THE MOTORIST IS BEING DETOURED OR IF AN ALTERNATE ROUTE IS PROVIDED, THE ROUTE SHALL BE SIGNED WITH ASSEMBLIES CONSISTING OF THE APPROPRIATE BLACK-ON-ORANGE DETOUR OR ALT MARKER WITH A STANDARD ROUTE MARKER AND ARROW PLATE.

ROUTE SIGN ASSEMBLIES SHALL BE SIZED ACCORDING TO THE TYPE OF ROAD ON WHICH THEY ARE LOCATED IN ACCORDANCE WITH THE OMTCD.

SUPPORTS FOR SIGN INSTALLATIONS SHALL CONFORM TO ALL EXISTING STANDARDS FOR PERMANENT SIGNS. THESE SIGNS SHOULD NOT BE ATTACHED TO EXISTING SUPPORTS.

WHERE THE PLANS CALL FOR AN OVERLAY TO COVER A PORTION OF AN EXISTING SIGN, THE OVERLAY SHALL BE BLACK-ON-ORANGE. LETTER SIZES SHOULD BE THE SAME AS ON THE EXISTING SIGNS. WHEN LANE ARROWS ARE TO BE COVERED, RATHER THAN USING A BLANK OVERLAY, THE LEGEND "LANE CLOSED" SHALL BE USED. WHEN A RAMP IS BEING CLOSED, RATHER THAN USING A BLANK OVERLAY TO COVER THE ENTIRE SIGN, THE LEGEND "CLOSED" SHALL BE USED ON A DIAGONAL OVERLAY (LOWER LEFT TO UPPER RIGHT) ON THE SIGN. THE SIZE OF LETTERING ON OVERLAYS AND THE SIZE OF THE OVERLAY ARE INDICATED IN THE PLANS. THE MINIMUM LETTER SIZE FOR "LANE CLOSED" SHALL BE 10" E. THE MINIMUM LETTER SIZE FOR THE DIAGONAL "CLOSED" OVERLAY SHALL BE 12" E.

ALL ADVANCE WORK ZONE INFORMATION SIGN INSTALLATIONS LOCATED OUTSIDE OF THE PROJECT WORK LIMITS SHALL BE PAID FOR UNDER APPROPRIATE 630 ITEMS (SIGNS, SUPPORTS, CONCRETE, BREAKAWAY CONNECTION, OVERLAYS, REMOVALS, ETC.)

ITEM 622 - PORTABLE BARRIER, 50", BRIDGE MOUNTED, AS PER PLAN (I-76 / I-77)

ALL PROVISIONS OF THE "ITEM 622 - PORTABLE BARRIER, 50", AS PER PLAN (I-76 / I-77)" NOTE SHALL APPLY EXCEPT THAT THE BARRIER SHALL BE BRIDGE MOUNTED PER SCD PCB-91.

ITEM 614 - MAINTAINING TRAFFIC (ESTIMATED QUANTITIES)

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE MAINTENANCE OF TRAFFIC GENERAL SUMMARY FOR USE AS DETERMINED BY THE ENGINEER FOR THE MAINTENANCE OF TRAFFIC.

ITEM 630	GROUND MOUNTED STRUCTURAL BEAM SUPPORT, W10X22	156.0 FT
	SIGN ATTACHMENT ASSEMBLY	3 EACH
	SIGN, GROUND MOUNTED EXTRUSHEET	320.0 SF
	GROUND MOUNTED STRUCTURAL BEAM SUPPORT FOUNDATION	8 EACH
	REMOVAL OF GROUND MOUNTED MAJOR SIGN AND DISPOSAL	12 EACH
	REMOVAL OF GROUND MOUNTED STRUCTURAL BEAM SUPPORT AND DISPOSAL	18 EACH
	REMOVAL OF GROUND MOUNTED WOODEN BOX BEAM SUPPORT AND DISPOSAL	9 EACH
	REMOVAL OF OVERHEAD MOUNTED SIGN AND DISPOSAL	3 EACH

ITEM 622 - PORTABLE BARRIER, 50", AS PER PLAN (I-76 / I-77)

THIS WORK SHALL CONSIST OF FURNISHING, MAINTAINING, AND SUBSEQUENTLY REMOVING A 50-INCH PORTABLE CONCRETE BARRIER (PCB) AT THE LOCATIONS SHOWN ON THE PLANS. FOR DETAILS, SEE SCD RM-4.1. PLEASE NOTE THAT SCD RM-4.1 WAS UPDATED 10-20-06 TO PROVIDE A PCB WHICH IS COMPATIBLE WITH NCHRP 350 CRITERIA.

PORTABLE STEEL BARRIER IS AN APPROVED ALTERNATIVE TO PCB. FOR INFORMATION ON APPROVED VENDORS, SEE THE APPROVED PRODUCTS LIST MAINTAINED BY ROADWAY STANDARDS.

PORTABLE CONCRETE BARRIER, 32 INCHES HIGH WITH AN 18-INCH MINIMUM HEIGHT GLARE SCREEN MAY BE USED AT THE OPTION OF THE CONTRACTOR. THE GLARE SCREEN SHALL BE CONSTRUCTED USING ONE OF THE SCREENS PROVIDED ON THE APPROVED LIST, AVAILABLE ON THE OFFICE OF MATERIALS MANAGEMENT WEB PAGE.

PADDLE OR INTERMITTENT TYPE GLARE SCREENS SHALL BE DESIGNED USING A 20 DEGREE CUT-OFF ANGLE BASED ON TANGENT ALIGNMENT. THAT SPACING SHALL BE USED THROUGHOUT THE BARRIER LENGTH WITHOUT REGARD TO BARRIER CURVATURE.

THE GLARE SCREEN SYSTEM SHALL BE SECURELY FASTENED TO THE 32-INCH PORTABLE CONCRETE BARRIER USING THE HARDWARE AND PROCEDURES SPECIFIED BY THE MANUFACTURER.

FOR DIRECTIONS ON HOW TO INSTALL THE GLARE SCREEN AND THE BARRIER, SEE THE MANUFACTURER'S INSTRUCTIONS.

PAYMENT SHALL INCLUDE ALL LABOR, MATERIAL, AND EQUIPMENT NECESSARY TO PERFORM THE WORK AND SHALL BE PAID FOR AT THE CONTRACT PRICE PER FOOT FOR ITEM 622, PORTABLE CONCRETE BARRIER, 50 INCH, AS PER PLAN.

ITEM 614 - BARRIER REFLECTORS AND/OR OBJECT MARKERS (I-76 / I-77)

BARRIER REFLECTORS AND/OR OBJECT MARKERS SHALL BE INSTALLED ON ALL PORTABLE CONCRETE BARRIER USED FOR TRAFFIC CONTROL. BARRIER REFLECTORS, OBJECT MARKERS, AND THEIR INSTALLATION SHALL CONFORM TO CMS 626, EXCEPT THAT THE SPACING SHALL BE 50 FEET.

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 740 M. GAL

EARTHWORK FOR MAINTAINING TRAFFIC

THE FOLLOWING QUANTITIES HAVE BEEN INCLUDED IN THE PLAN FOR INFORMATION ONLY:

EMBANKMENT FOR MAINTAINING TRAFFIC 2100 CU. YD.

WHEN UNDERCUTS ARE NECESSARY FOR MAINLINE PAVEMENT OR EMBANKMENT CONSTRUCTION, EVALUATE THE NEED FOR TEMPORARY ROAD UNDERCUTS IF WITHIN A CLOSE PROXIMITY TO THE MAINLINE UNDERCUTS.

ALL WORK AND ITEMS REQUIRED TO PROVIDE, MAINTAIN, AND REMOVE TEMPORARY ROADS TO BE INCLUDED IN COST FOR ITEM 615 - ROADS FOR MAINTAINING TRAFFIC. THIS INCLUDES AND IS NOT LIMITED TO GUARDRAIL, EARTHWORK, PAVEMENT, DRAINAGE, ETC.

TEMPORARY TRAFFIC SIGNALS (LOCAL)

TEMPORARY TRAFFIC SIGNALS SHALL BE INSTALLED IN ACCORDANCE WITH THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS (OMUTCD), AND THE CONSTRUCTION AND MATERIAL SPECIFICATIONS (CMS), CURRENT EDITION, LATEST REVISIONS. USED MATERIALS IN GOOD CONDITION ARE ACCEPTABLE.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF THE WOOD POLES. THE CONTRACTOR WILL FURNISH, ERECT, OPERATE, MAINTAIN AND SUBSEQUENTLY REMOVE EACH TEMPORARY SIGNAL. THE CONTRACTOR WILL COORDINATE WITH THE POWER COMPANY FOR POWER SERVICE AND THE CONTRACTOR WILL PAY ALL FEES AND POWER USAGE FOR THE TEMPORARY SIGNALS.

THE RELOCATION OF SIGNAL HEADS FOR EACH PHASE OF CONSTRUCTION AND ALL NECESSARY FIELD ADJUSTMENTS OF THE PHASING AND /OR TIMING WILL BE INCLUDED IN THIS ITEM.

THE CONTRACTOR SHALL FIELD ADJUST PHASING AND TIMING TO MAINTAIN BACKUPS TO A MINIMUM WITH THE APPROVAL OF THE ENGINEER.

TRAFFIC SIGNAL HEAD CLEARANCE SHALL BE 16' MINIMUM AND 18' MAXIMUM.

THE COST FOR ALL MATERIALS, LABOR, TOOLS, EQUIPMENT, AND INCIDENTALS TO PROVIDE TEMPORARY SIGNALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT BID PRICE FOR ITEM 614 - MAINTAINING TRAFFIC.

EXTRA ADVANCE WARNING SIGNS (NOTE A)

AN EXTRA ADVANCE WARNING SIGN GROUP CONSISTS OF TWO W20-1 (ROAD WORK AHEAD) SIGNS, TWO W20-5 (RIGHT/LEFT LANE CLOSED AHEAD) SIGNS WITH W16-3A DISTANCE PLATES, AND TWO W3-H7 (WATCH FOR STOPPED TRAFFIC) SIGNS AND REQUIRED WARNING LIGHTS.

THE CONTRACTOR SHALL HAVE AN ADDITIONAL EXTRA ADVANCE WARNING SIGN GROUP (6 SIGNS AND 2 DISTANCE PLATES) AVAILABLE FOR USE WHEN DIRECTED BY THE ENGINEER. THE DISTANCE PLATES FOR THIS GROUP SHALL BE ABLE TO BE MODIFIED IN THE FIELD TO SHOW APPROPRIATE WHOLE MILES TO THE LANE TAPER.

PAYMENT FOR PROVIDING, ERECTING, MAINTAINING AND REMOVING EXTRA ADVANCE WARNING SIGN GROUPS SHALL BE INCLUDED IN THE LUMP SUM BID FOR ITEM 614, MAINTAINING TRAFFIC.

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MEP	3/30/16	ADDED BRIDGE MOUNTED BARRIER NOTE
REV. BY	DATE	DESCRIPTION
DATE COMPLETED		

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REFERENCE NO.	SHEET NO.	LOCATION	PARTICIPATION (100% CITY OR PROJECT)	202	611	614	614	614	614	614	614	614	614	614	614	614	614	614	614	614	615	622	622	622	622	622	625	630	630	630					
				CONCRETE BARRIER REMOVED	INLET, MISC.: REMOVE, PROTECT AND RECONSTRUCT BARRIER MEDIAN INLET	WORK ZONE IMPACT ATTENUATOR (UNIDIRECTIONAL)	WORK ZONE IMPACT ATTENUATOR (BIDIRECTIONAL)	WORK ZONE RAISED PAVEMENT MARKER	BARRIER REFLECTOR, TYPE B	MAINTAINING TRAFFIC, MISC.: TEMPORARY DRAINAGE OUTLET FOR MOT	WORK ZONE LANE LINE, CLASS I	WORK ZONE LANE LINE, CLASS I, AS PER PLAN	WORK ZONE CENTER LINE, CLASS I	WORK ZONE EDGE LINE, CLASS I	WORK ZONE EDGE LINE, CLASS I, AS PER PLAN	WORK ZONE CHANNELIZING LINE, CLASS I	WORK ZONE CHANNELIZING LINE, CLASS I, AS PER PLAN	WORK ZONE DOTTED LINE, CLASS I, 642 PAINT	WORK ZONE DOTTED LINE, CLASS I, 642 PAINT, AS PER PLAN	WORK ZONE STOP LINE, CLASS I	WORK ZONE ARROW, CLASS I	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A	CONCRETE BARRIER, SINGLE SLOPE, TYPE BI	BARRIER TRANSITION	CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE BI	PORTABLE BARRIER, 50", AS PER PLAN	PORTABLE BARRIER, 50", BRIDGE MOUNTED, AS PER PLAN	LIGHT POLE, MISC.: REMOVE, SALVAGE AND RE-ERECT MEDIAN LIGHT POLE WITH RECONSTRUCTION OF MEDIAN FOUNDATION	SIGN ERECTED, TEMPORARY OVERLAY	REMOVAL OF GROUND MOUNTED SIGN AND REERECTION, AS PER PLAN	SIGNING, MISC.: REMOVE, SALVAGE AND RE-ERECT CONCRETE MEDIAN BARRIER-MOUNTED MILE MARKER				
		FROM	TO	FT	EACH	EACH	EACH	EACH	EACH	EACH	MILE	MILE	MILE	MILE	MILE	FT	FT	FT	FT	FT	EACH	SY	FT	EACH	EACH	FT	FT	EACH	SF	EACH	EACH				
		I.R. 76																																	
	221	Mile 20.4																																	
	221	Mile 21.0																																	
	221	Mile 21.2																																	
	221	444+50																																	
LL-1	223	440+85	448+00									0.14																							
CH-3	223	441+52	448+00						33																										
CH-4	223	425+00	445+20						19																										
EY-1	223	439+85	448+00																																
EW-1	223	439+85	448+00																																
EY-2	223	441+52	448+00						33																										
EY-3	223	445+20	448+00																																
EW-2	223	445+20	448+00						14																										
EW-3	223	445+00	448+00																																
D-1	223	446+53																																	
SM-1	223	446+26																																	
L-1	223	445+89																																	
PB-1	223	444+42	448+00																																
EW-1	224	448+00	449+25																																
DW-1	224	449+25	453+10																																
EW-4	224	448+25	456+00																																
LL-1	224	448+00	456+00																																
EY-1	224	448+00	456+00																																
PB-1	224	448+00	456+00																																
EY-2	224	448+00	456+00																																
CH-3	224	448+00	453+10																																
LL-2	224	453+10	456+00																																
EW-2	224	448+00	456+00																																
PB-2	224	452+48	456+00																																
PB-2A	224	449+00																																	
EY-3	224	448+00	456+00																																
EW-3	224	448+00	456+00																																
	224	455+23																																	
EW-1	225	456+00	464+00																																
LL-1	225	456+00	464+00																																
LL-2	225	456+00	464+00																																
PB-1	225	456+00	464+00																																
EY-1	225	456+00	464+00																																
EY-2	225	456+00	464+00																																
EW-2	225	456+00	464+00																																
PB-2	225	456+00	464+00																																
EW-3	225	456+00	963+25																																
EW-4	225	456+00	963+25																																
EW-1	226	464+00	472+00																																
PHASE 2 SUBTOTALS						2		207	67			0.91		2.51	3303		385																		
PHASE 2 SUBTOTALS (CARRIED TO SHEET 84)						2		207	67			0.91		2.51	3303		385																		

CALCULATED	AP	CHECKED	RT
MAINTENANCE OF TRAFFIC SUBSUMMARY			
SUM -76 -10.00			
MEP	3/30/16	TEMP. OVERLAY	QUANTITY REVISION
REV. BY	DATE	DESCRIPTION	
DATE COMPLETED			
81			
1822			

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REFERENCE NO.	SHEET NO.	LOCATION		PARTICIPATION (100% CITY OR PROJECT)	202	611	614	614	614	614	614	614	614	614	614	614	614	614	614	614	615	622	622	622	622	625	630	630	630									
		FROM	TO		FT	EACH	EACH	EACH	EACH	EACH	EACH	EACH	MILE	MILE	MILE	MILE	MILE	FT	FT	FT	FT	FT	EACH	SY	FT	EACH	EACH	FT	FT	EACH	SF	EACH	EACH					
			I.R. 76																																			
	200	487+95		01/IMS/PV																										9.0								
EW-2	230	496+00	504+00	01/IMS/PV																																		
PB-2	230	496+00	504+00	01/IMS/PV						17																												
PB-3	230	496+00	504+00	01/IMS/PV																																		
EW-1	231	504+00	512+00	01/IMS/PV																																		
LL-1	231	504+00	152+00	01/IMS/PV																																		
EY-1	231	504+00	512+00	01/IMS/PV																																		
PB-1	231	504+00	512+00	01/IMS/PV																																		
EY-2	231	504+00	512+00	01/IMS/PV																																		
LL-2	231	504+00	506+00	01/IMS/PV																																		
CH-1	231	506+00	512+00	01/IMS/PV																																		
EW-2	231	504+00	512+00	01/IMS/PV																																		
PB-2	231	504+00	509+00	01/IMS/PV																																		
PB-3	231	504+00	510+13	01/IMS/PV																																		
	207	508+80		01/IMS/PV																																		
SM-2	231	509+18		01/IMS/PV																																		
L-2	231	511+35		01/IMS/PV																																		
	231	508+74		01/IMS/PV																																		
EW-1	232	512+00	520+00	01/IMS/PV																																		
LL-1	232	512+00	513+80	01/IMS/PV																																		
DW-1	232	513+80	519+80	01/IMS/PV																																		
CH-1	232	513+80	520+00	01/IMS/PV																																		
CH-2	232	512+00	517+06	01/IMS/PV																																		
EW-2	232	512+00	519+06	01/IMS/PV																																		
	232	519+57		01/IMS/PV																																		
EY-1	232	512+00	520+00	01/IMS/PV																																		
EY-2	232	512+00	517+06	01/IMS/PV																																		
EY-3	232	519+80	520+00	01/IMS/PV																																		
D-2	232	512+50	Phase 1?	01/IMS/PV																																		
PB-1	232	512+00	514+00	01/IMS/PV																																		
EW-3	232	519+80	520+00	01/IMS/PV																																		
EW-1	233	520+00	525+34	01/IMS/PV																																		
EY-1	233	520+00	525+34	01/IMS/PV																																		
EW-2	233	520+00	526+34	01/IMS/PV																																		
CH-1	232	520+00	525+34	01/IMS/PV																																		
EY-2	233	520+00	526+34	01/IMS/PV																																		
PHASE 2 SUBTOTALS							1		283	44				0.22																								
			I.R. 76																																			
EY-1	234-236	446+00	964+23	01/IMS/PV																																		
EW-1	234-236	446+00	964+23	01/IMS/PV																																		
PB-1	235-236	453+00	964+23	01/IMS/PV																																		
PHASE 2A SUBTOTALS																																						
PHASE 2 SUBTOTALS (CARRIED TO SHEET 84)							1		283	66				0.22																								

MEP	3/30/16	TEMP. OVERLAY QUANTITY REVISION
REV. BY	DATE	DESCRIPTION

CALCULATED	AP	CHECKED	RT
MAINTENANCE OF TRAFFIC SUBSUMMARY			
SUM -76 -10.00			
83			
1822			

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REFERENCE NO.	SHEET NO.	LOCATION		PARTICIPATION (100% CITY OR PROJECT)	202	611	614	614	614	614	614	614	614	614	614	614	614	614	614	614	615	622	622	622	622	625	630	630	630							
		FROM	TO		CONCRETE BARRIER REMOVED	INLET, MISC.: REMOVE, PROTECT AND RECONSTRUCT BARRIER MEDIAN INLET	WORK ZONE IMPACT ATTENUATOR (UNIDIRECTIONAL)	WORK ZONE IMPACT ATTENUATOR (BIDIRECTIONAL)	WORK ZONE RAISED PAVEMENT MARKER	BARRIER REFLECTOR, TYPE B	MAINTAINING TRAFFIC, MISC.: TEMPORARY DRAINAGE OUTLET FOR MOT	WORK ZONE LANE LINE, CLASS I	WORK ZONE LANE LINE, CLASS I, AS PER PLAN	WORK ZONE CENTER LINE, CLASS I	WORK ZONE EDGE LINE, CLASS I	WORK ZONE EDGE LINE, CLASS I, AS PER PLAN	WORK ZONE CHANNELIZING LINE, CLASS I	WORK ZONE CHANNELIZING LINE, CLASS I, AS PER PLAN	WORK ZONE DOTTED LINE, CLASS I, 642 PAINT	WORK ZONE DOTTED LINE, CLASS I, 642 PAINT, AS PER PLAN	WORK ZONE STOP LINE, CLASS I	WORK ZONE ARROW, CLASS I	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A	CONCRETE BARRIER, SINGLE SLOPE, TYPE BI	BARRIER TRANSITION	CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE BI	PORTABLE BARRIER, 50", AS PER PLAN	PORTABLE BARRIER, 50", BRIDGE MOUNTED, AS PER PLAN	LIGHT POLE, MISC.: REMOVE, SALVAGE AND RE-ERECT MEDIAN LIGHT POLE WITH RECONSTRUCTION OF MEDIAN FOUNDATION	SIGN ERECTED, TEMPORARY OVERLAY	REMOVAL OF GROUND MOUNTED SIGN AND REERECTION, AS PER PLAN	SIGNING, MISC.: REMOVE, SALVAGE AND RE-ERECT CONCRETE MEDIAN BARRIER-MOUNTED MILE MARKER				
					FT	EACH	EACH	EACH	EACH	EACH	EACH	MILE	MILE	MILE	MILE	MILE	FT	FT	FT	FT	FT	EACH	SY	FT	EACH	EACH	FT	FT	EACH	SF	EACH	EACH				
EY-4	248-249	485+25	491+32	01/IMS/PV												0.11																				
EW-8	248-249	485+25	522+71	01/IMS/PV												0.71																				
CH-8	249	489+70	490+50	01/IMS/PV																																
CH-9	249	491+32	492+00	01/IMS/PV																																
CH-10	249	491+00	491+32	01/IMS/PV																																
EW-9	249-253	490+50	517+25	01/IMS/PV												0.61																				
PB-4A	250-251	500+00	509+00	01/IMS/PV						18																										
DW-5	249-250	490+50	497+65	01/IMS/PV																																
PB-4A	251	509+00		01/IMS/PV			1																													
DW-6	249	492+00	494+50	01/IMS/PV																																
LL-4	249-251	489+90	506+51	01/IMS/PV										0.31																						
CH-11	251-253	506+51	521+70	01/IMS/PV					76																											
CH-12	251-253	506+51	522+71	01/IMS/PV					76																											
CH-13	251-252	507+08	519+70	01/IMS/PV																																
CH-14	251-252	507+08	519+70	01/IMS/PV																																
267	43+90	S. MAIN ST. AT RAMP W-8		01/IMS/PV																														9.0		
PHASE 3 STAGE 1 SUBTOTALS							1		152	18			0.31			1.43		5843																9.0		
I.R. 76																																				
EW-1	255-256	445+50	451+45	01/IMS/PV												0.11																				
EY-1	255-258	445+50	464+73	01/IMS/PV												0.36																				
EW-2	256-258	451+45	466+24	01/IMS/PV												0.28																				
DW-1	256	451+45	454+50	01/IMS/PV																																
PB-1	256-257	454+00	463+00	01/IMS/PV			1			18																										
PB-2	257	456+90	464+00	01/IMS/PV			1			15																										
PB-2A	259	472+50	479+00	01/IMS/PV						13																										
CH-1	258	464+73	467+50	01/IMS/PV																																
EY-2	260-262	485+25	500+00	01/IMS/PV												0.28																				
EW-3	260-263	485+25	510+10	01/IMS/PV												0.47																				
CH-2	262	500+00	502+45	01/IMS/PV																																
PB-3	261	490+90	494+60	01/IMS/PV						8																										
CH-3	262	500+00	503+50	01/IMS/PV																																
DW-2	262-263	503+50	510+10	01/IMS/PV																																
PHASE 3 STAGE 2 SUBTOTALS							2			54						1.50		872																		
S. MAIN ST. AT I.R. 76																																				
EW-1	266	37+50	674+78	01/IMS/PV												0.05																				
LL-1	266	37+57	40+07	01/IMS/PV									0.05																							
EW-2	266	37+50	40+07	01/IMS/PV												0.05																				
EY-1	266	36+30	40+07	01/IMS/PV												0.07																				
EY-2	266	36+30	40+07	01/IMS/PV												0.07																				
PHASE 3 STAGE 3 SUBTOTALS													0.05			0.24																				
S. MAIN ST. AT I.R. 76																																				
CH-1	268	36+32	37+50	01/IMS/PV																																
CH-2	268	36+32	37+50	01/IMS/PV																																
LL-1	268-269	36+32	49+50	01/IMS/PV									0.25																							
LL-2	268-269	37+50	49+50	01/IMS/PV									0.23																							
EW-1	268-269	36+32	39+61	01/IMS/PV												0.06																				
PHASE 3 STAGE 4 SUBTOTALS													0.48			0.06		236																		
PHASE 3 SUBTOTALS (CARRIED TO SHEET 86)							3		152	72			0.53	0.31		0.30	2.93	236	6715																9.0	

CALCULATED	AP	CHECKED	RT
MAINTENANCE OF TRAFFIC SUBSUMMARY			
SUM -76 -10.00			
MEP	3/30/16	TEMP. OVERLAY QUANTITY REVISION	
REV. BY	DATE	DESCRIPTION	
DATE COMPLETED			
85			
1822			

I:\Projects\Main Broadway\WOT\Sheets\77269WS001.dgn 3/31/2016 9:15:30 AM michael.j.thompson

REFERENCE NO.	SHEET NO.	LOCATION	PARTICIPATION (100% CITY OR PROJECT)	202	611	614	614	614	614	614	614	614	614	614	614	614	614	614	614	614	615	622	622	622	625	630	630	630	
				CONCRETE BARRIER REMOVED	INLET, MISC.: REMOVE, PROTECT AND RECONSTRUCT BARRIER MEDIAN INLET	WORK ZONE IMPACT ATTENUATOR (UNIDIRECTIONAL)	WORK ZONE IMPACT ATTENUATOR (BIDIRECTIONAL)	WORK ZONE RAISED PAVEMENT MARKER	BARRIER REFLECTOR, TYPE B	MAINTAINING TRAFFIC, MISC.: TEMPORARY DRAINAGE OUTLET FOR MOT	WORK ZONE LANE LINE, CLASS I	WORK ZONE LANE LINE, CLASS I, AS PER PLAN	WORK ZONE CENTER LINE, CLASS I	WORK ZONE EDGE LINE, CLASS I	WORK ZONE EDGE LINE, CLASS I, AS PER PLAN	WORK ZONE CHANNELIZING LINE, CLASS I	WORK ZONE CHANNELIZING LINE, CLASS I, AS PER PLAN	WORK ZONE DOTTED LINE, CLASS I, 642 PAINT	WORK ZONE DOTTED LINE, CLASS I, 642 PAINT, AS PER PLAN	WORK ZONE STOP LINE, CLASS I	WORK ZONE ARROW, CLASS I	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A	CONCRETE BARRIER, SINGLE SLOPE, TYPE BI	BARRIER TRANSITION	CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE BI	PORTABLE BARRIER, 50", AS PER PLAN	PORTABLE BARRIER, 50", BRIDGE MOUNTED, AS PER PLAN	LIGHT POLE, MISC.: REMOVE, SALVAGE AND RE-ERECT MEDIAN LIGHT POLE WITH RECONSTRUCTION OF MEDIAN FOUNDATION	SIGN ERECTED, TEMPORARY OVERLAY
FROM	TO	FT	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	
S. MAIN ST. AT I.R. 76																													
C-1	268	36+32	44+95	01/IMS/PV							0.16																		
S-1	268	36+32		01/IMS/PV																									
EW-3	269	43+00	45+61	01/IMS/PV																									
EY-1	268	762+75	39+61	01/IMS/PV																									
EW-2	268-269	762+75	49+50 (S. Main St.)	01/IMS/PV																									
EY-2	269	44+95	49+50	01/IMS/PV																									
EY-3	269	44+95	49+50	01/IMS/PV																									
PHASE 3 STAGE 4 SUBTOTALS											0.16	0.46																	
PHASE 3 SUBTOTALS (THIS SHEET)											0.16	0.46																	
PHASE 3 SUBTOTALS (CARRIED FROM SHEET 84)						2	2	412	191			3.09			4.98		5820		3340		1508				9750	225			
PHASE 3 SUBTOTALS (CARRIED FROM SHEET 85)						3		152	72		0.53	0.31			0.30	2.93	236	6715		1930				3534			9.0		
PHASE 3 TOTALS (CARRIED TO SHEET 87)						5	2	564	263		0.53	3.40	0.16	0.76	7.91	236	12535		5270	36		1508		13284	225		9.0		
S. MAIN ST. AND S. BROADWAY ST.																													
CH-1	273	27+80	28+80	01/IMS/PV														100											
CH-2	273	27+80	28+80	01/IMS/PV														100											
EY-1	273-274	27+80	35+15	01/IMS/PV														0.14											
EY-2	273-274	27+80	35+15	01/IMS/PV														0.14											
LL-1	273-274	28+80	34+83	01/IMS/PV							0.11																		
LL-2	273-274	28+80	34+83	01/IMS/PV							0.11																		
S-1	274	34+83		01/IMS/PV																									
S-2	274	36+27		01/IMS/PV																									
LL-3	274	36+27	41+00	01/IMS/PV							0.09																		
LL-4	274-275	36+27	42+76	01/IMS/PV							0.12																		
A-1	274	36+40		01/IMS/PV																									
A-2	274	37+05		01/IMS/PV																									
EY-3	274-275	36+20	42+80	01/IMS/PV																									
	274	37+50		01/IMS/PV																								25.5	
CH-1	274-275	41+00	42+76	01/IMS/PV															176										
EY-4	274-275	36+20	42+80	01/IMS/PV															0.13										
LL-5	274-275	37+69	43+00	01/IMS/PV							0.10																		
CH-2C	274	37+61	39+00	01/IMS/PV															139										
EY-5	274	763+00	41+44	01/IMS/PV																									
EW-2	274	38+63	41+44	01/IMS/PV																									
CH-2A	274	36+27	37+69	01/IMS/PV															142										
A-3	274	38+75		01/IMS/PV																									
A-5	275	42+63		01/IMS/PV																									
S-3	275	42+76		01/IMS/PV																									
S-4	275	44+10		01/IMS/PV																									
A-4	274	41+50		01/IMS/PV																									
EY-6	275-276	43+90	54+90	01/IMS/PV																									
EY-7	275-276	43+90	54+90	01/IMS/PV																									
A-6	275	44+23		01/IMS/PV																									
A-7	275	44+89		01/IMS/PV																									
CH-1A	275	44+10	48+00	01/IMS/PV															390										
CH-2B	274	36+27	37+69	01/IMS/PV															142										
LL-6	275-276	44+10	54+80	01/IMS/PV							0.20																		
LL-7	275-276	44+00	54+80	01/IMS/PV							0.20																		
PHASE 4 SUBTOTALS											0.93																	25.5	
PHASE 4 SUBTOTALS (CARRIED TO SHEET 87)											0.93																		25.5

MEP	3/30/16	PCB AND TEMP. OVERLAY QUANTITY REVISION
REV. BY	DATE	DESCRIPTION

Maintenance of Traffic Subsummary

SUM -76 -10.00

CALCULATED
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REFERENCE NO.	SHEET NO.	LOCATION	PARTICIPATION (100% CITY OR PROJECT)	202	611	614	614	614	614	614	614	614	614	614	614	614	614	614	614	614	615	622	622	622	622	622	625	630	630	630			
				CONCRETE BARRIER REMOVED	INLET, MISC.: REMOVE, PROTECT AND RECONSTRUCT BARRIER MEDIAN INLET	WORK ZONE IMPACT ATTENUATOR (UNIDIRECTIONAL)	WORK ZONE IMPACT ATTENUATOR (BIDIRECTIONAL)	WORK ZONE RAISED PAVEMENT MARKER	BARRIER REFLECTOR, TYPE B	MAINTAINING TRAFFIC, MISC.: TEMPORARY DRAINAGE OUTLET FOR MOT	WORK ZONE LANE LINE, CLASS I	WORK ZONE LANE LINE, CLASS I, AS PER PLAN	WORK ZONE CENTER LINE, CLASS I	WORK ZONE EDGE LINE, CLASS I	WORK ZONE EDGE LINE, CLASS I, AS PER PLAN	WORK ZONE CHANNELIZING LINE, CLASS I	WORK ZONE CHANNELIZING LINE, CLASS I, AS PER PLAN	WORK ZONE DOTTED LINE, CLASS I, 642 PAINT	WORK ZONE DOTTED LINE, CLASS I, 642 PAINT, AS PER PLAN	WORK ZONE STOP LINE, CLASS I	WORK ZONE ARROW, CLASS I	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A	CONCRETE BARRIER, SINGLE SLOPE, TYPE BI	BARRIER TRANSITION	CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE BI	PORTABLE BARRIER, 50", AS PER PLAN	PORTABLE BARRIER, 50", BRIDGE MOUNTED, AS PER PLAN	LIGHT POLE, MISC.: REMOVE, SALVAGE AND RE-ERECT MEDIAN LIGHT POLE WITH RECONSTRUCTION OF MEDIAN FOUNDATION	SIGN ERECTED, TEMPORARY OVERLAY	REMOVAL OF GROUND MOUNTED SIGN AND REERECTION, AS PER PLAN	SIGNING, MISC.: REMOVE, SALVAGE AND RE-ERECT CONCRETE MEDIAN BARRIER-MOUNTED MILE MARKER		
FROM	TO	FT	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	SY	FT	EACH	EACH	FT	FT	EACH	SF	EACH	EACH				
		I.R. 76																															
LL-8	275-276	48+00	54+80	01/IMS/PV								0.13																					
A-8	276	54+10		01/IMS/PV																	1												
CH-1B	276	53+65	54+85	01/IMS/PV											120																		
A-9	276	54+75		01/IMS/PV																													
S-5	276	54+80		01/IMS/PV																													
S-6	276	56+15		01/IMS/PV																													
A-10	276	56+25		01/IMS/PV																													
LL-9	276	56+15	161+71	01/IMS/PV								0.11																					
LL-10	276-278	56+15	266+80	01/IMS/PV								0.20																					
LL-11	276-277	56+15	262+21	01/IMS/PV								0.11																					
A-11	276	56+90		01/IMS/PV																													
CH-5A	276-277	56+15	58+15	01/IMS/PV																													
EW-6		NOT USED																															
EY-8	276-277	56+15	161+50	01/IMS/PV																													
EY-9	276-277	56+15	161+50	01/IMS/PV																													
EW-7	277-278	59+00	9+14	01/IMS/PV																													
CH-3	277	361+00	363+50	01/IMS/PV																													
S-7	278	158+49		01/IMS/PV																													
CH-5	278-279	159+54	162+54	01/IMS/PV																													
A-12	278	158+73		01/IMS/PV																													
CH-6	278	158+49	159+24	01/IMS/PV																													
CH-4	277	161+50	163+50	01/IMS/PV																													
EY-1	280-289	434+10	515+50	01/IMS/PV																													
DW-1	280	438+60	444+00	01/IMS/PV																													
EY-2	280-290	442+94	523+00	01/IMS/PV																													
D-1	280	447+01		01/IMS/PV		1																											
L-1	280	445+89		01/IMS/PV																													
M-1	280	446+25		01/IMS/PV																													
PB-1	280	440+00	449+10	01/IMS/PV																													
PB-2	280	444+40	440+50	01/IMS/PV																													
PB-3	282	456+50	466+10	01/IMS/PV																													
PB-4	282	456+90	466+50	01/IMS/PV																													
PB-5	284	477+50	479+10	01/IMS/PV																													
PB-6	284	477+90	479+50	01/IMS/PV																													
PB-7	289	499+50	514+10	01/IMS/PV																													
PB-8	289	499+90	514+50	01/IMS/PV																													
L-2	288	511+35		01/IMS/PV																													
D-2	289	512+50	512+50	01/IMS/PV		1																											
	280	444+50	449+00	01/IMS/PV																													
	289	509+00	517+00	01/IMS/PV																													
PHASE 4 SUBTOTALS						2	8					0.55					3.44		820		540		126	5		1250	2	4	6460		2		1
PHASE 4 SUBTOTALS (THIS SHEET)						2	8					0.55					3.44		820		540		126	5		1250	2	4	6460		2		1
PHASE 4 SUBTOTALS (CARRIED FROM SHEET 86)												0.93					1.03		1189				122	7							25.5		
PHASE 4 TOTALS						2	8					1.48				4.47		2009		540			248	12		1250	2	4	6460		2	25.5	1
PHASE 1 TOTALS (CARRIED FROM SHEET 80)					1450		11					3.94		1.64	9.41	7.62	3247	70990				540		852	23	14578				18198			
PHASE 2 TOTALS (CARRIED FROM SHEET 84)							3	630	286	3	0.12	2.63			0.24	7.59	452	5563											15576	530		232.5	1
PHASE 3 TOTALS (CARRIED FROM SHEET 86)							5	564	263		0.53	3.40	0.16	0.76	7.91	236	12535											13284	225		9.0		
TOTALS CARRIED TO GENERAL SUMMARY					1450	2	27	2	1194	942	3	6.07	6.03	1.80	14.88	23.12	5944	89088	540	6905	1136	35	16086	1250	2	4	53518	755	2	267.0	1	1	

REV. BY	DATE	DESCRIPTION
MEP	3/30/16	PCB AND TEMP. OVERLAY QUANTITY REVISION

Maintenance of Traffic Subsummary

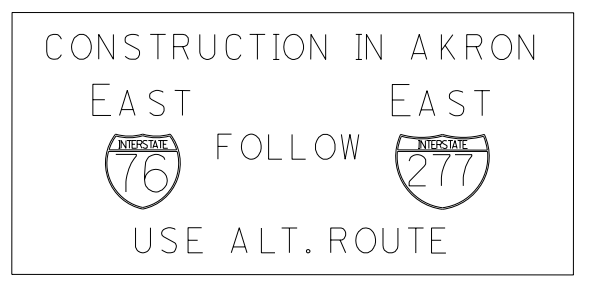
SUM -76 -10.00

CALCULATED
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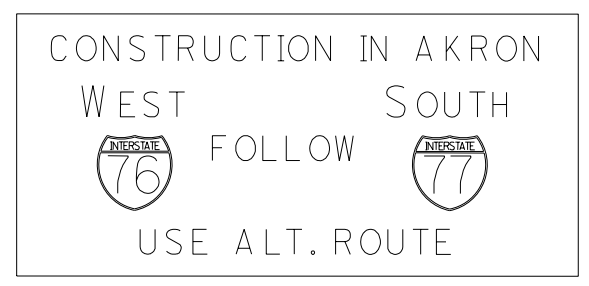
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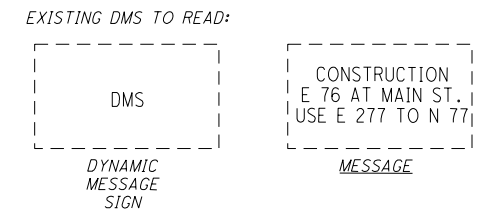
SPECIAL (SIGN A)
SEE SHEET 109
FOR DIMENSIONS
A



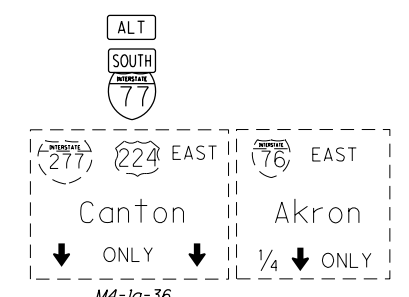
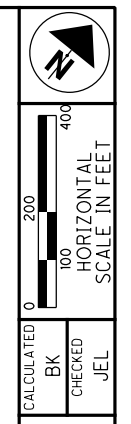
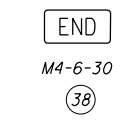
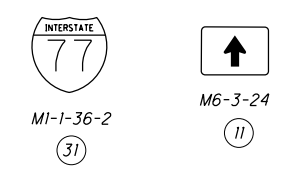
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SEE SHEET 109
FOR DIMENSIONS
C



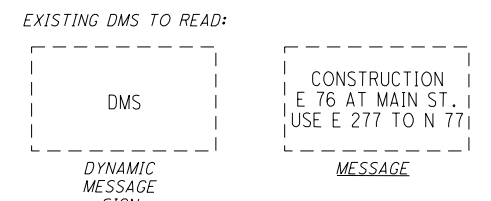
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SEE SHEET 110
FOR DIMENSIONS
D



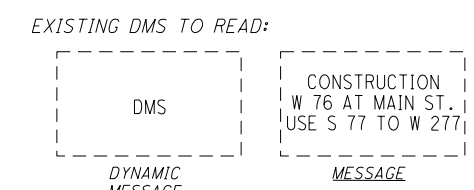
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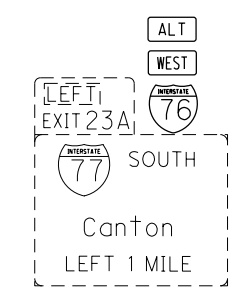
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M3-3-36
MI-1-36-2
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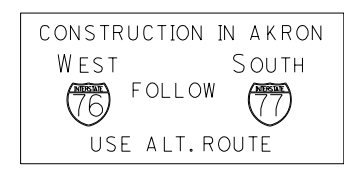
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BO



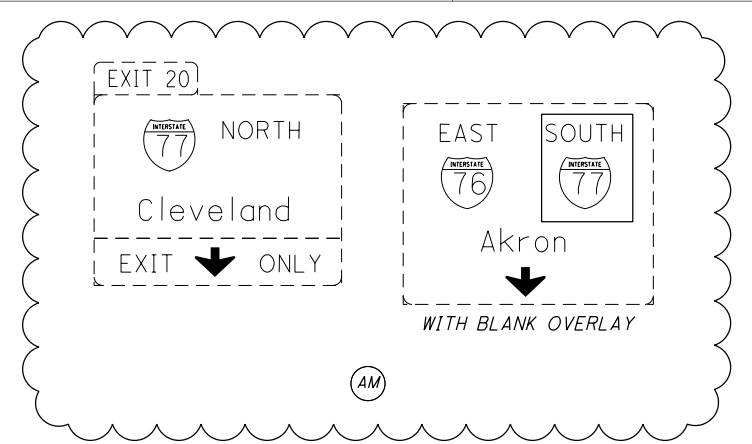
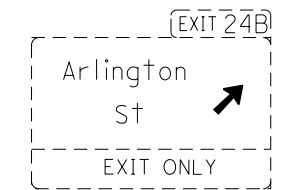
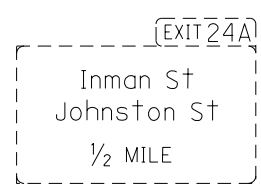
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M3-4-36
MI-1-36-2



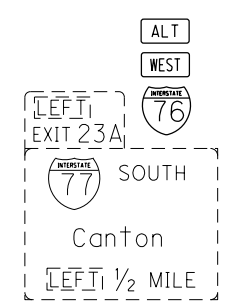
SIGN D-180

EXISTING OVERHEAD MOUNTED SIGNS TO BE RELOCATED NEW LOCATION TO FIT PROPOSED SIGN D

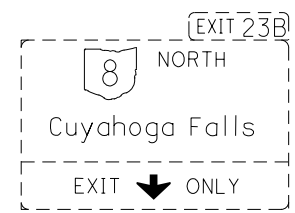
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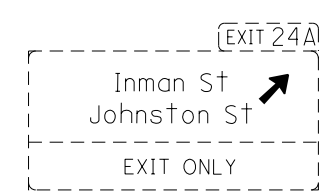
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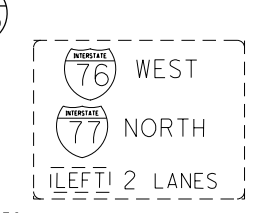
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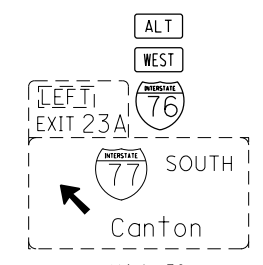
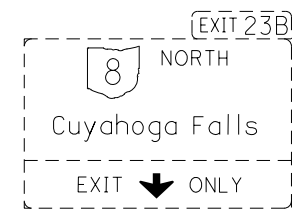
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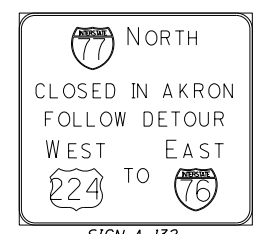


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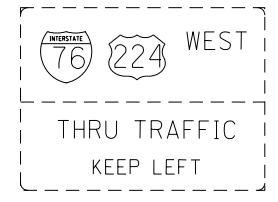
BU



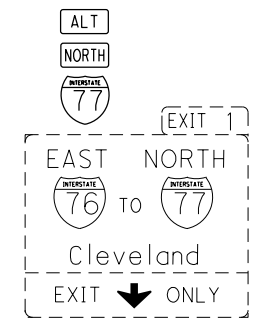
SIGN A-132



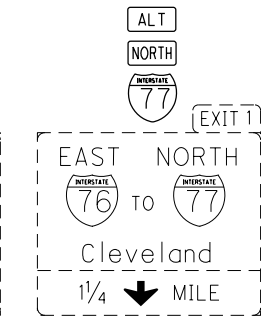
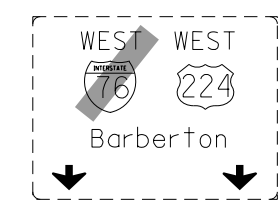
CA



CE



M4-1a-36
M3-4-36
MI-1-36-2



M4-1a-36
M3-4-36
MI-1-36-2

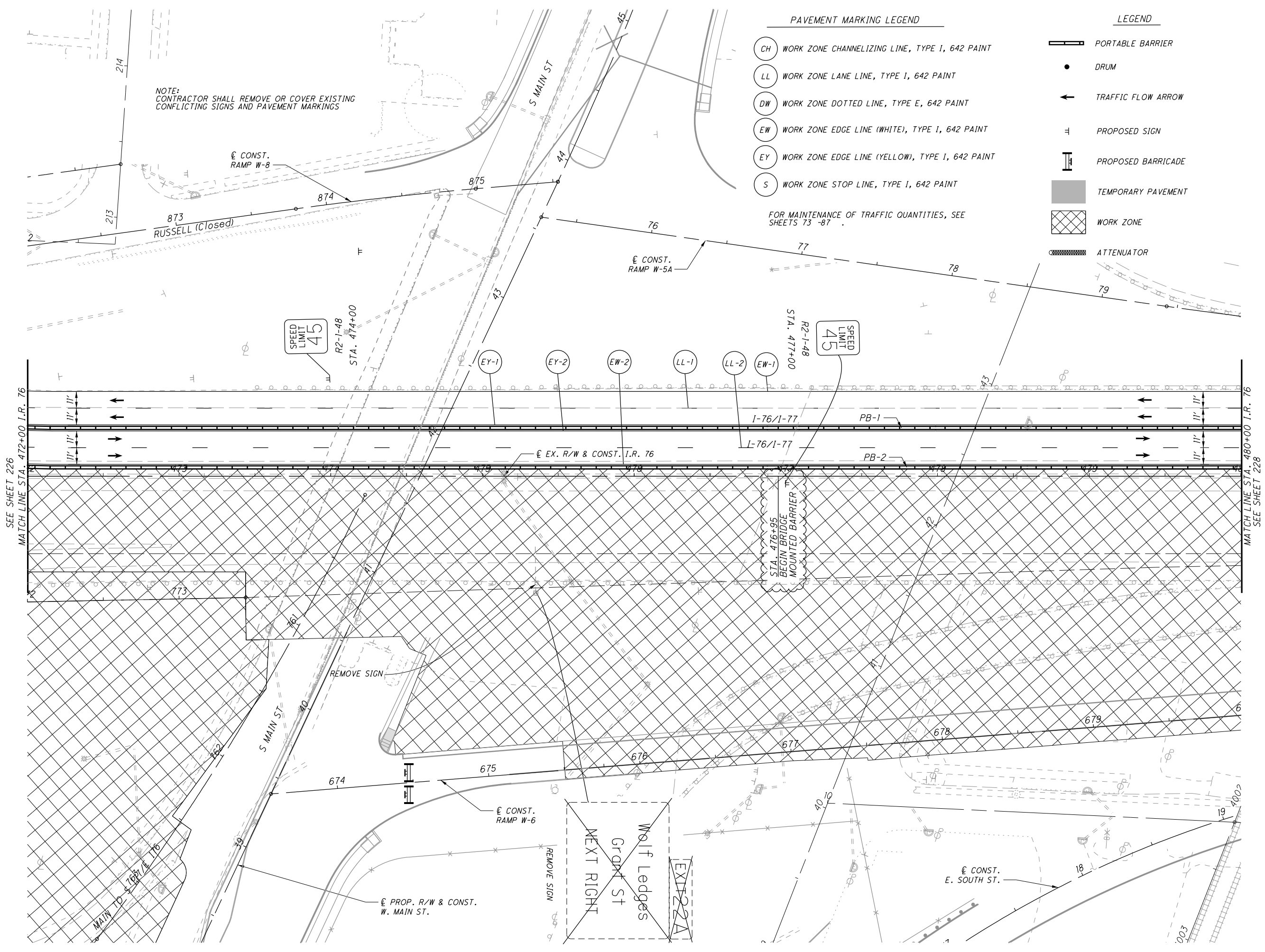
CD



REV. BY	DATE	DESCRIPTION
KMK	3/22/16	ADDED SIGN GROUP AM

MOT PHASE 2
I-77 NB TO I-76 WB DETOUR SIGNING

SUM-76-10.00



- PAVEMENT MARKING LEGEND**
- CH WORK ZONE CHANNELIZING LINE, TYPE 1, 642 PAINT
 - LL WORK ZONE LANE LINE, TYPE 1, 642 PAINT
 - DW WORK ZONE DOTTED LINE, TYPE E, 642 PAINT
 - EW WORK ZONE EDGE LINE (WHITE), TYPE 1, 642 PAINT
 - EY WORK ZONE EDGE LINE (YELLOW), TYPE 1, 642 PAINT
 - S WORK ZONE STOP LINE, TYPE 1, 642 PAINT

- LEGEND**
- PORTABLE BARRIER
 - DRUM
 - TRAFFIC FLOW ARROW
 - PROPOSED SIGN
 - PROPOSED BARRICADE
 - TEMPORARY PAVEMENT
 - WORK ZONE
 - ATTENUATOR

FOR MAINTENANCE OF TRAFFIC QUANTITIES, SEE SHEETS 73 -87

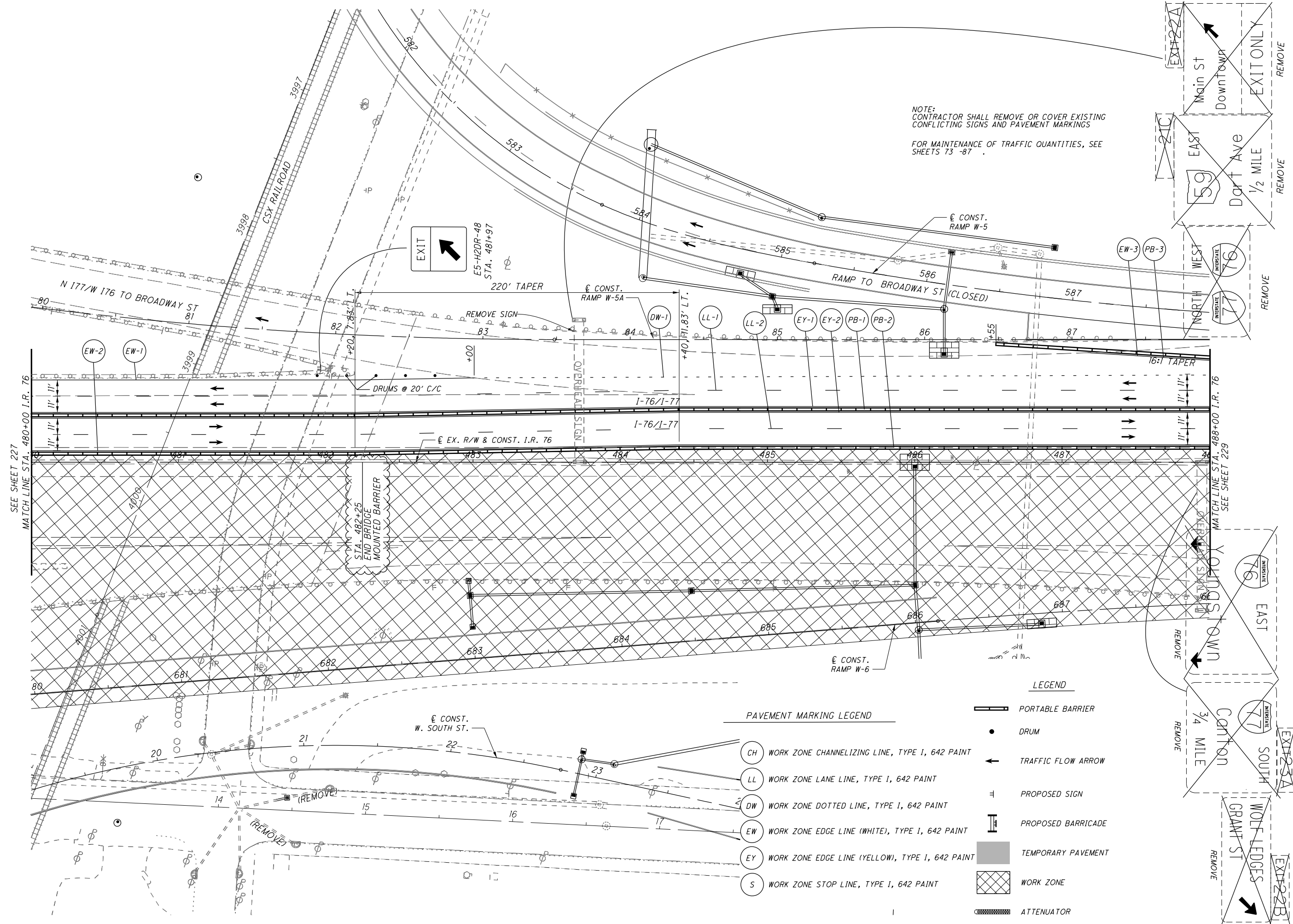
NOTE:
CONTRACTOR SHALL REMOVE OR COVER EXISTING
CONFLICTING SIGNS AND PAVEMENT MARKINGS

MEP 3/30/16 ADDED BRIDGE MOUNTED BARRIER CALLOUT

CALCULATED AB RT
 0 15 30 60
 HORIZONTAL SCALE IN FEET

REV. BY	DATE	DESCRIPTION

REV. BY	DATE	DESCRIPTION

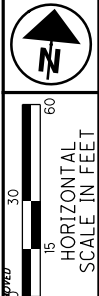


NOTE:
CONTRACTOR SHALL REMOVE OR COVER EXISTING
CONFLICTING SIGNS AND PAVEMENT MARKINGS

FOR MAINTENANCE OF TRAFFIC QUANTITIES, SEE
SHEETS 73 -87 .

- PAVEMENT MARKING LEGEND
- CH WORK ZONE CHANNELIZING LINE, TYPE I, 642 PAINT
 - LL WORK ZONE LANE LINE, TYPE I, 642 PAINT
 - DW WORK ZONE DOTTED LINE, TYPE I, 642 PAINT
 - EW WORK ZONE EDGE LINE (WHITE), TYPE I, 642 PAINT
 - EY WORK ZONE EDGE LINE (YELLOW), TYPE I, 642 PAINT
 - S WORK ZONE STOP LINE, TYPE I, 642 PAINT

- LEGEND
- PORTABLE BARRIER
 - DRUM
 - TRAFFIC FLOW ARROW
 - PROPOSED SIGN
 - PROPOSED BARRICADE
 - TEMPORARY PAVEMENT
 - WORK ZONE
 - ATTENUATOR



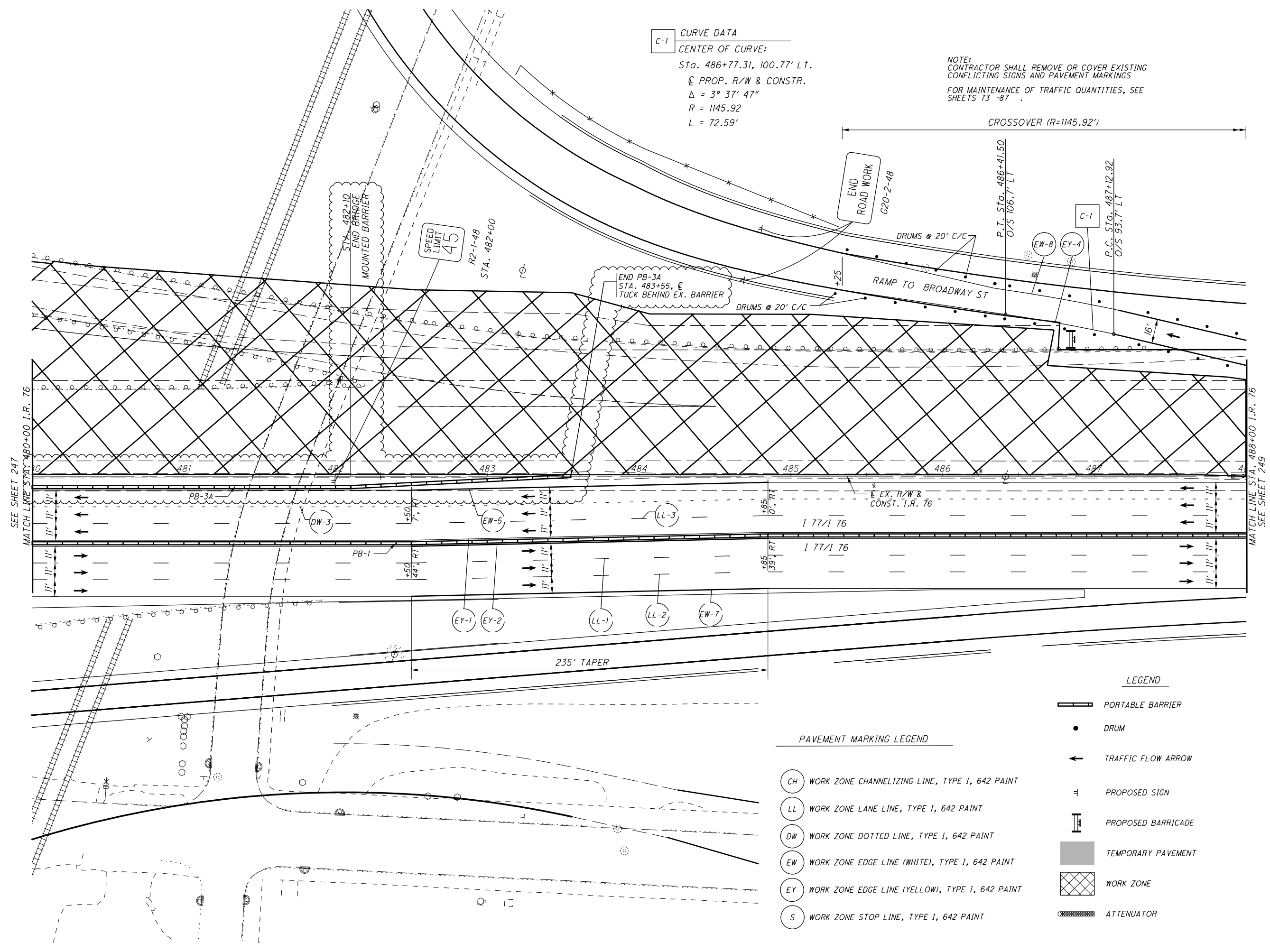
EASTING AND NORTHING CALCULATED BY RT
AB
CHECKED
RT

MAINTENANCE OF TRAFFIC PHASE 2
MAINLINE - I 76 / I 77

SUM -76 -10.00

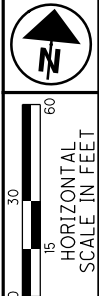
228
1822

I:\Projects\Main_Broadway\MOT\Sheets\77269WP006_3A.dgn 3/30/2016 2:14:45 PM michael_j_thompson



C-1 CURVE DATA
 CENTER OF CURVE:
 Sta. 486+77.31, 100.77' Lt.
 C PROP. R/W & CONSTR.
 $\Delta = 3^\circ 37' 47''$
 $R = 1145.92$
 $L = 72.59'$

NOTE:
 CONTRACTOR SHALL REMOVE OR COVER EXISTING
 CONFLICTING SIGNS AND PAVEMENT MARKINGS
 FOR MAINTENANCE OF TRAFFIC QUANTITIES, SEE
 SHEETS 73 -87



SEE SHEET 247
 MATCH LINE STA. 480+00 I.R. 76

MATCH LINE STA. 488+00 I.R. 76
 SEE SHEET 249

- PAVEMENT MARKING LEGEND**
- (CH) WORK ZONE CHANNELIZING LINE, TYPE 1, 642 PAINT
 - (LL) WORK ZONE LANE LINE, TYPE 1, 642 PAINT
 - (DW) WORK ZONE DOTTED LINE, TYPE 1, 642 PAINT
 - (EW) WORK ZONE EDGE LINE (WHITE), TYPE 1, 642 PAINT
 - (EY) WORK ZONE EDGE LINE (YELLOW), TYPE 1, 642 PAINT
 - (S) WORK ZONE STOP LINE, TYPE 1, 642 PAINT

- LEGEND**
- [Symbol] PORTABLE BARRIER
 - [Symbol] DRUM
 - [Symbol] TRAFFIC FLOW ARROW
 - [Symbol] PROPOSED SIGN
 - [Symbol] PROPOSED BARRICADE
 - [Symbol] TEMPORARY PAVEMENT
 - [Symbol] WORK ZONE
 - [Symbol] ATTENUATOR

MEP 3/30/16 PCB EXTENDED & ADDED BRIDGE MOUNTED BARRIER CALLOUT

REV. BY	DATE	DESCRIPTION

MAINTENANCE OF TRAFFIC PHASE 3 STAGE 1
MAINLINE - I 76

I:\Projects\Main_Broadway\Roadway\Sheets\7726965034.dgn 3/31/2016 3:22:22 PM michael_j_thompson

REF NO.	SHEET NO.	OWNER (BUSINESS NAME)	ADDRESS	OFFICIAL RECORD		AUDITOR'S PARCEL	RECORD AREA	STRUCTURE	REMARKS	BUILDING DEMOLISHED	202
				BOOK	PAGE						
5	729	TASTY PURE FOODS COMPANY, AN OHIO CORPORATION (TASTY PURE FOODS)	841 SOUTH BROADWAY	D.V. 4198	P. 677	6837973	0.292	YES	2 STORY BRICK OFFICE/WAREHOUSE (TOTAL TAKE)	LS	
5A	729	TASTY PURE FOODS COMPANY, AN OHIO CORPORATION (TASTY PURE FOODS)	855 SWEITZER	D.V. 7359	P. 539	6814351	6.696	YES	BRICK OFFICE/WAREHOUSE (TOTAL TAKE)	LS	
57	727	ROBERT GONZALEZ AND ANNA MAIRE HESS-GONZALEZ (RESIDENCE)	66 WEST SOUTH ST.	R.N. 55219260		6825535		YES	2 STORY FRAME & GARAGE (TOTAL TAKE)	LS	
TOTALS CARRIED TO GENERAL SUMMARY											LS

CALCULATED MJT CHECKED KMK
BUILDING DEMOLITION SUBSUMMARY
SUM - 76 - 10.00
 369
 1822

KMK	3/28/16	REMOVE ITEMS FOR PARCEL #57
REV. BY	DATE	DESCRIPTION
DATE COMPLETED		

REV. BY	DATE	DESCRIPTION

DATE COMPLETED

NOTE:
 APPROXIMATE LOCATION OF UNDERGROUND STORAGE TANK FOR REMOVAL. (STA. 47+75, 85' LT. TO STA. 48+05, 110' LT.) ANOMALOUS STRONG EM 'METAL' (IN-PHASE) RESPONSE: POSSIBLE UST(S) OR OTHER LARGE BURIED METAL STRUCTURE, WESTERN EXTENT UNKNOWN. LOCATION: SITE 20 OF ESA REPORT; 816 S. BROADWAY ST., AKRON, OHIO.

NEW SHEET

EX. BUILDINGS PREVIOUSLY DEMOLISHED BY OTHERS

SEE NOTE THIS SHEET

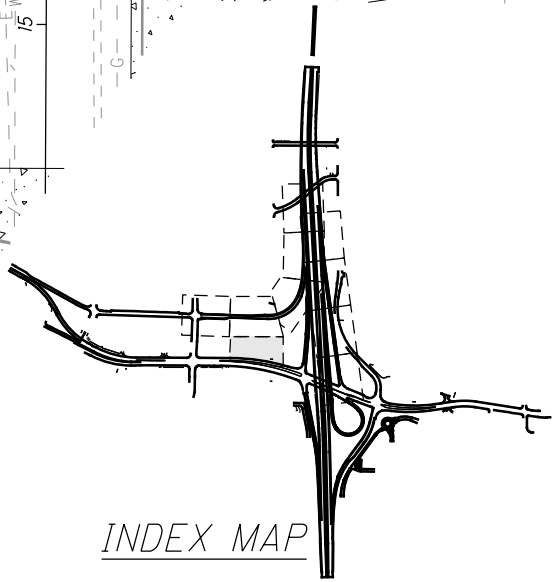
0 20 40
 HORIZONTAL SCALE IN FEET

CALCULATED MJT CHECKED KMK

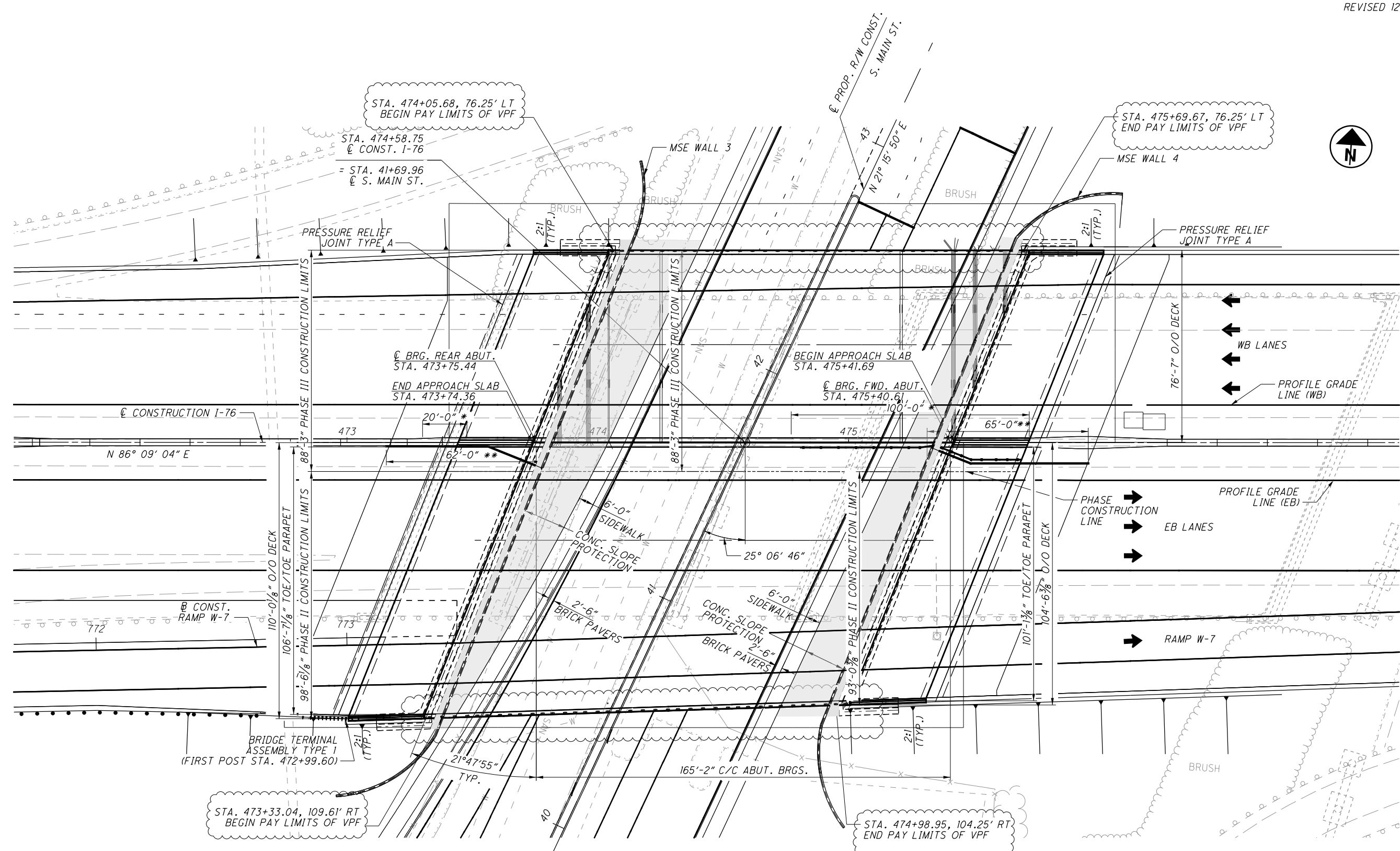
REMOVAL PLAN - RAMP W-5 / VORIS ST.

SUM-76-10.00

733A
 1822



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GENERAL PLAN

LEGEND:

- * SOLDIER PILE AND LAGGING WALL FOR REMOVAL
- ** WIRE FACE MSE FOR CONSTRUCTION

NOTES:

- SEE MSE WALL 3 AND 4 PLANS FOR WIRE WALL DETAILS.
- SEE SHEETS 9/62 & 10/62 FOR SHEET PILE WALL DETAILS.
- SEE SHEET 1/62 FOR HORIZONTAL AND VERTICAL CLEARANCE INFORMATION

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REV. BY	DATE	DESCRIPTION
DEB	3/25/16	ADDITION OF VPF FENCE

QUANTITIES CALC. BY	DEB
CHECKED BY	CAV

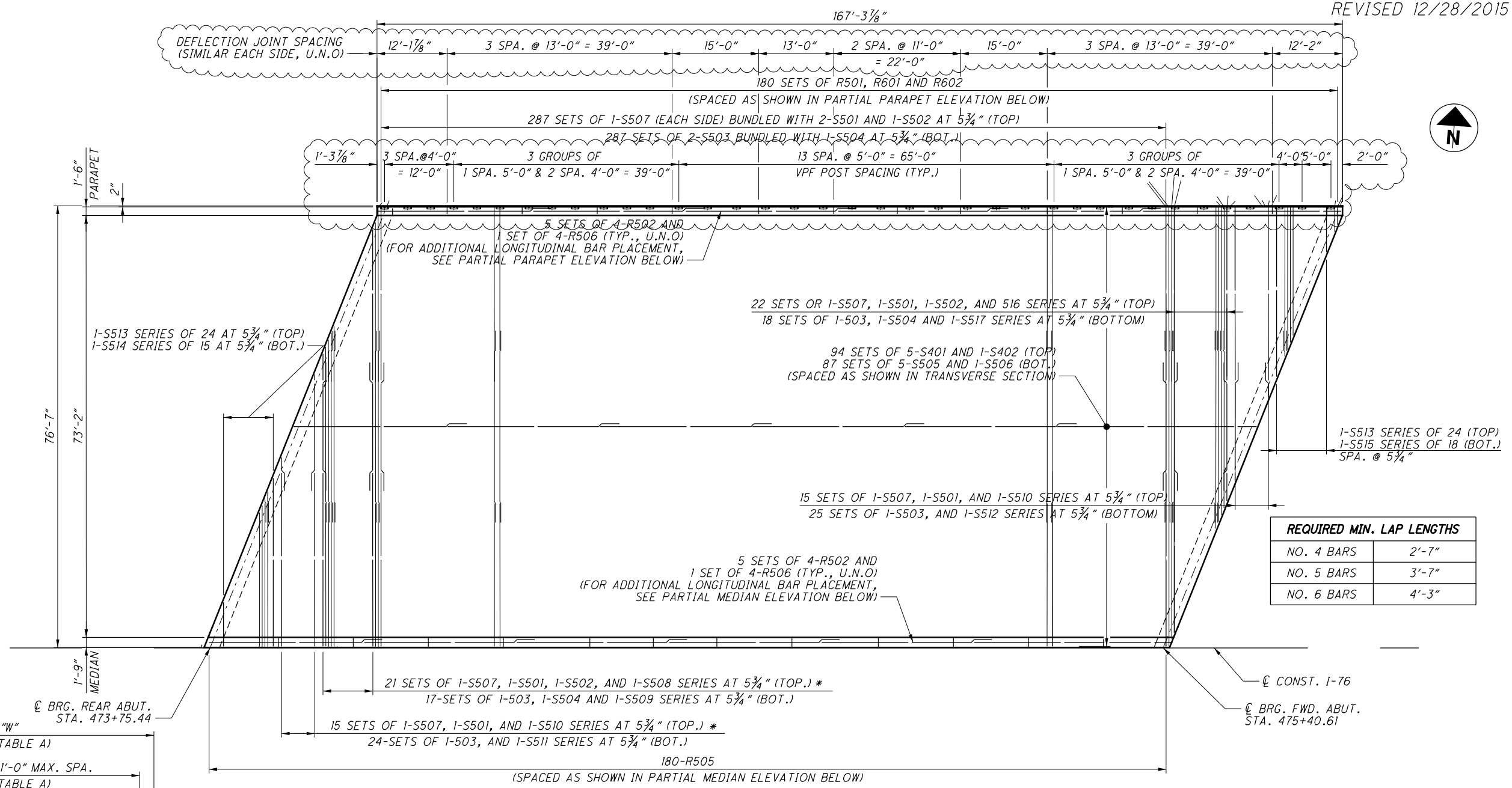
ITEM ODOT	EXT.	PARTICIPATION 02/IMS/BR	TOTAL	UNIT	DESCRIPTION	SUM-76-10.34L (WESTBOUND) SFN: 7703317				SUM-76-10.34R (EASTBOUND) SFN: 7703317				REF. SHEET
						ABUTMENTS		SUPER.	GENERAL	ABUTMENTS		SUPER.	GENERAL	
						REAR	FWD.			REAR	FWD.			
202	11003	LS	LS		STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN				LS				LS	3/62, 6/62 & 11/62
202	22900	612	612	SY	APPROACH SLAB REMOVED				200				412	
503	11101	LS	LS		COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN								LS	3/62 & 9/62
505	11100	LS	LS		PILE DRIVING EQUIPMENT MOBILIZATION				LS				LS	
507	00100	5,300	5,300	FT	STEEL PILES HPI0X42, FURNISHED	1120	1300			1280	1600			
507	00150	4,710	4,710	FT	STEEL PILES HPI0X42, DRIVEN	980	1170			1120	1440			
507	93300	118	118	EACH	STEEL POINTS OR SHOES	28	26			32	32			
509	10000	316,661	316,661	LB	EPOXY COATED REINFORCING STEEL	8059	7731	119705		9167	9029	162970		
511	21522	1,249	1,249	CY	CLASS QC2 CONCRETE WITH QC/OA, SUPERSTRUCTURE			525				724		
511	33500	8	8	EACH	SEMI-INTEGRAL DIAPHRAGM GUIDE	2	2			2	2			
511	34451	130	130	CY	CLASS QC2 CONCRETE WITH QC/OA, BRIDGE DECK (PARAPET), AS PER PLAN			65				65		3/62, 38/62, 39/62
511	43512	482	482	CY	CLASS QC1 CONCRETE WITH QC/OA, ABUTMENT INCLUDING FOOTING	119	112			126	125			
512	10101	1,646	1,646	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN	141	138	401	137	188	184	403	54	4/62
512	33000	5	5	SY	TYPE 2 WATERPROOFING							5		
513	10280	1,546,200	1,546,200	LB	STRUCTURAL STEEL MEMBERS, LEVEL 4			649600				896600		
513	20000	4,980	4,980	EACH	WELDED STUD SHEAR CONNECTORS			2088				2892		
514	00060	64,000	64,000	SF	FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT			27000				37000		
514	00066	64,000	64,000	SF	FIELD PAINTING STRUCTURAL STEEL, FINISH COAT			27000				37000		
514	10000	54	54	EACH	FINAL INSPECTION REPAIR			23				31		
516	13600	44	44	SF	1" PREFORMED EXPANSION JOINT FILLER	11	11			11	11			
516	13900	818	818	SF	2" PREFORMED EXPANSION JOINT FILLER				358				460	
516	14020	449	449	FT	SEMI-INTEGRAL ABUTMENT EXPANSION JOINT SEAL	90	90			137	132			
516	44201	38	38	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (1'-4" x 1'-8" x 3.44" WITH 1'-5" x 1'-10" x 1.50" LOAD PLATE)			16				22		32/62
518	21200	312	312	CY	POROUS BACKFILL WITH FILTER FABRIC	68	67			91	86			
518	40000	466	466	FT	6" PERFORATED CORRUGATED PLASTIC PIPE	101	101			135	129			
518	40010	80	80	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS	20	20			20	20			
526	30001	1,232	1,232	SY	REINFORCED CONCRETE APPROACH SLABS (I-17"), AS PER PLAN				512				720	54/62 & 55/62
607	39900	330	330	FT	VANDAL PROTECTION FENCE, 6' STRAIGHT, COATED FABRIC			164				166		

NOTES:

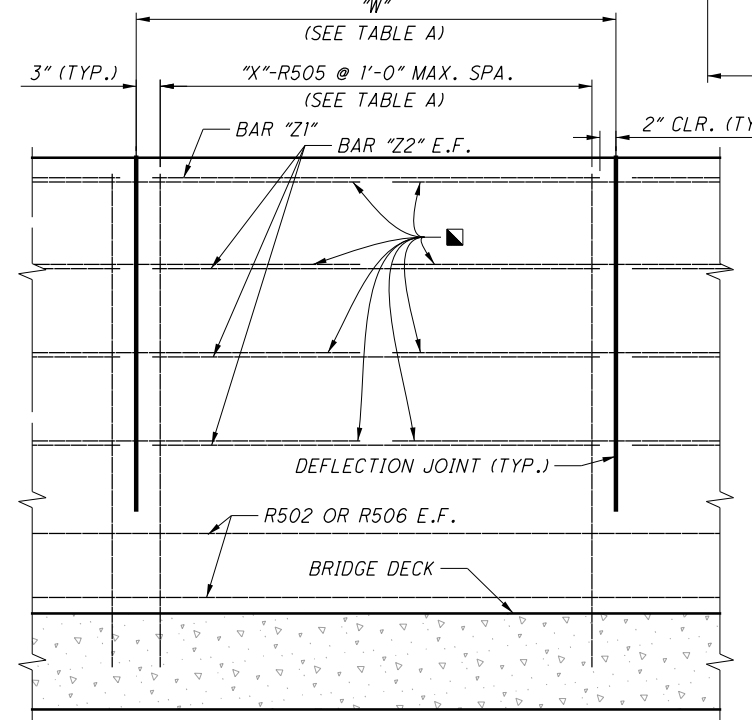
- QUANTITIES ARE SUBDIVIDED BASED ON PHASED FACED CONSTRUCTION LINE RATHER THAN CENTER LINE OF I.R.-76 IN SOME INSTANCES TO MAINTAIN CONSISTENCY SEE QUANTITY CALCULATIONS FOR ADDITIONAL INFORMATION.
- FOR MSE WALL 3 AND 4 QUANTITIES, SEE SHEET (1619/1822) AND (1620/1822).

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VFG	3/25/16	ADDITION OF VPF FENCE
REV. BY	DATE	DESCRIPTION
DATE COMPLETED		



REQUIRED MIN. LAP LENGTHS	
NO. 4 BARS	2'-7"
NO. 5 BARS	3'-7"
NO. 6 BARS	4'-3"



PARTIAL MEDIAN ELEVATION
 (BRIDGE DECK REINFORCING NOT SHOWN FOR CLARITY)

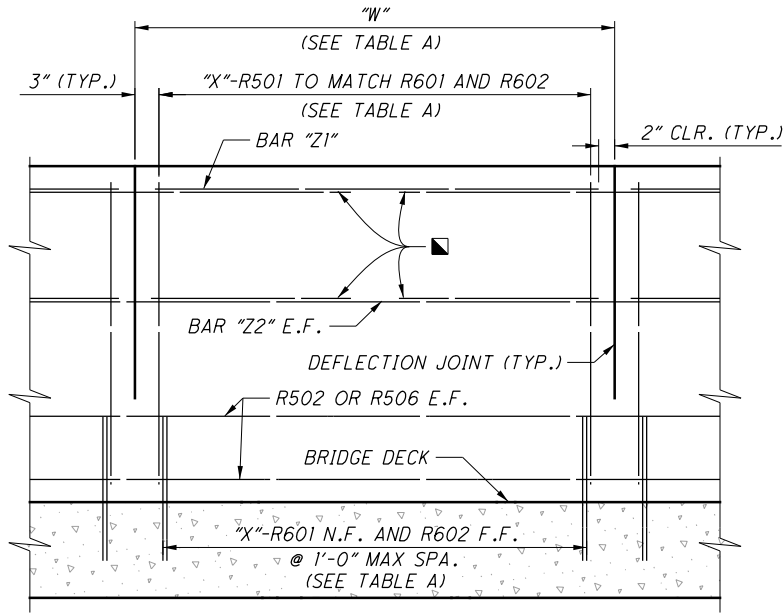
LEGEND:
 * TYP. EACH CORNER
 ■ : 1/2" DIA. GLASS FIBER REINFORCED POLYMER (GFRP) STIFFENING REINFORCEMENT (SEE SHEETS 35/62 AND 36/62 FOR ADDITIONAL NOTES AND DETAILS)

TABLE A (SEE NOTE 5)				
No. OF PANELS	"W"	"X"	BAR "Z1"	BAR "Z2"
3	12'-2"	13	R603	R503
28	13'-0"	14	R604	R504
8	11'-0"	12	R605	R509
8	15'-0"	16	R606	R510
3	12'-1 7/8"	13	R603	R503
2	13'-3 7/8"	14	R607	R507

REV. BY	DATE	DESCRIPTION
VFG	3/25/16	ADDITION OF VPF FENCE

SLAB PLAN - WESTBOUND LANES
 (ENTIRE WB BRIDGE CONSTRUCTED IN PHASE III)

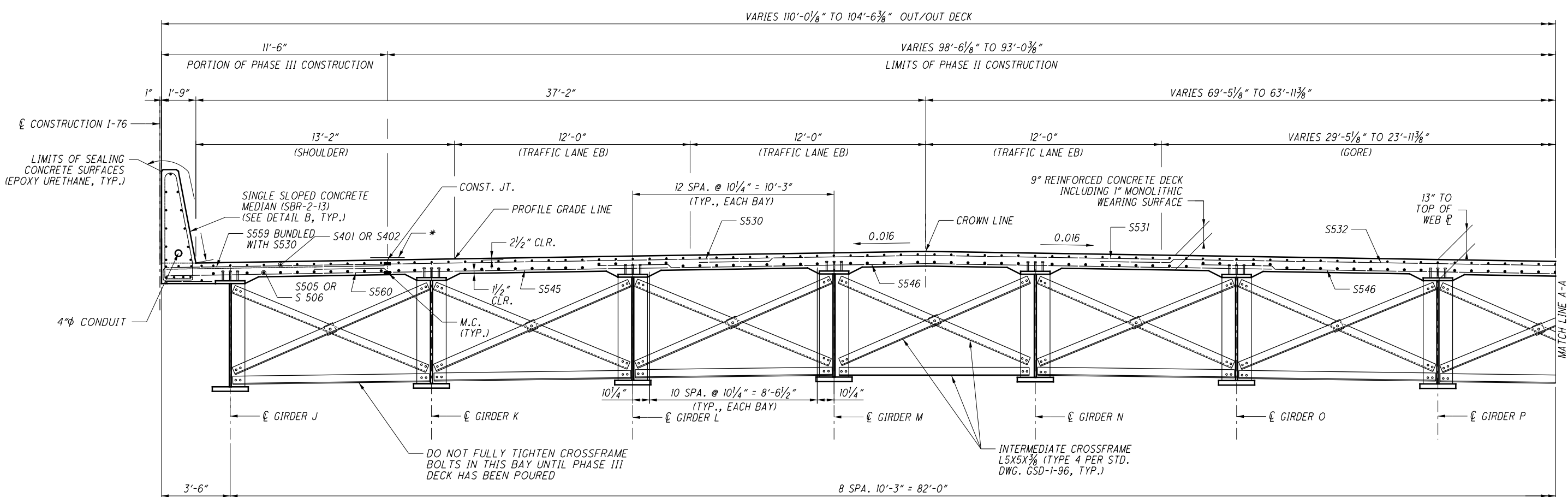
- NOTES:**
- FOR DEFLECTION JOINT AND ADDITIONAL PARAPET DETAILS, SEE SHEET 35/62.
 - FOR TRANSVERSE SECTION, SEE SHEET 44/62.
 - FOR REINFORCING STEEL LIST, SEE SHEET 62/62.
 - FOR MEDIAN BARRIER DETAILS, SEE SHEET 36/62.
 - TABLE 'A' INCLUDES ALL OUTSIDE AND MEDIAN PARAPET PANELS IN BOTH EBL & WBL STRUCTURES.
 - FOR PARAPET LETTERING DETAILS, SEE SHEET 38/62.



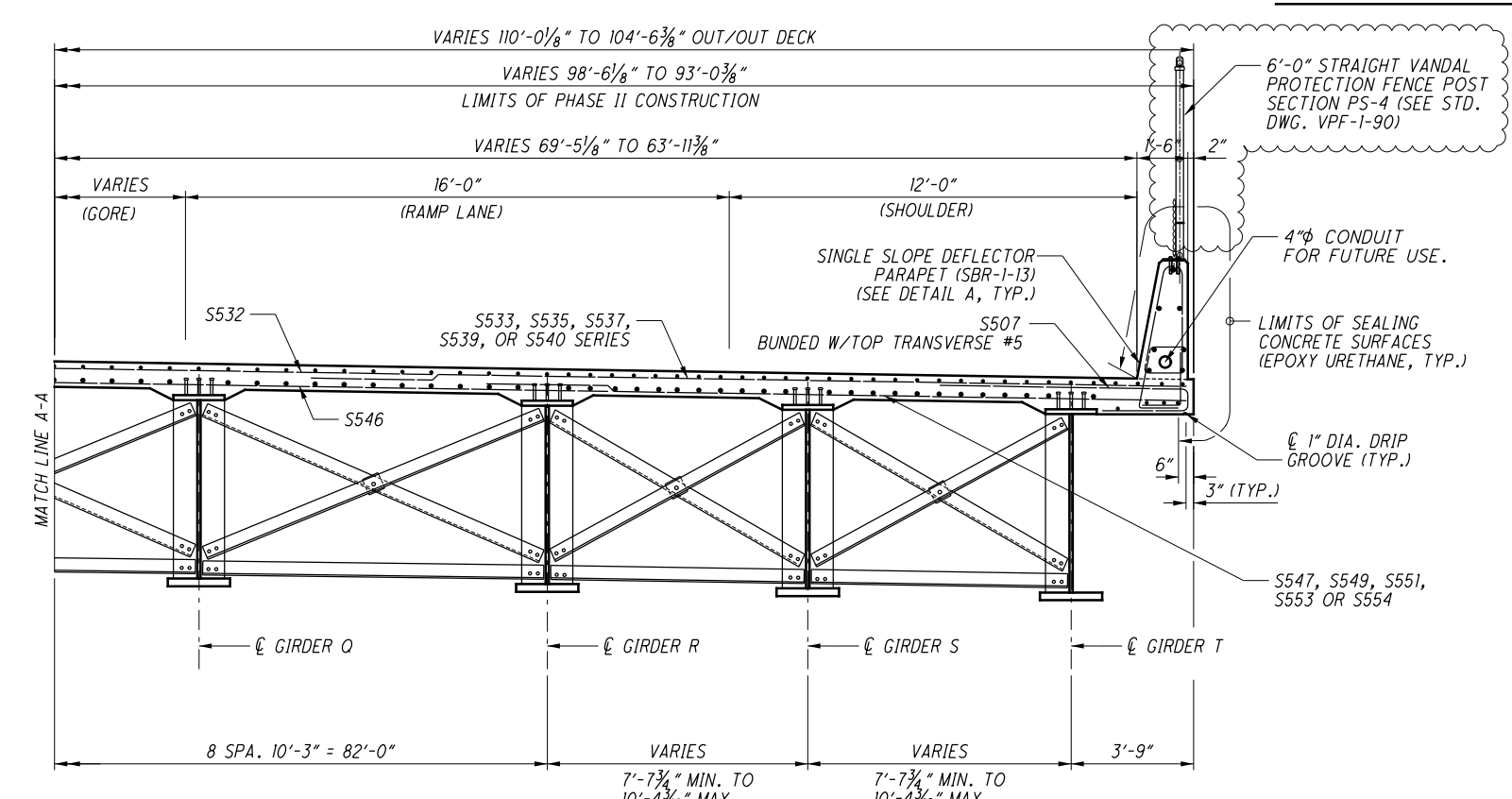
PARTIAL PARAPET ELEVATION
 (BRIDGE DECK REINFORCING NOT SHOWN FOR CLARITY)

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TRANSVERSE SECTION



TRANSVERSE SECTION

LEGEND:
* 2'-0" WIDE
HMWM SEAL
CENTERED ON
JOINT

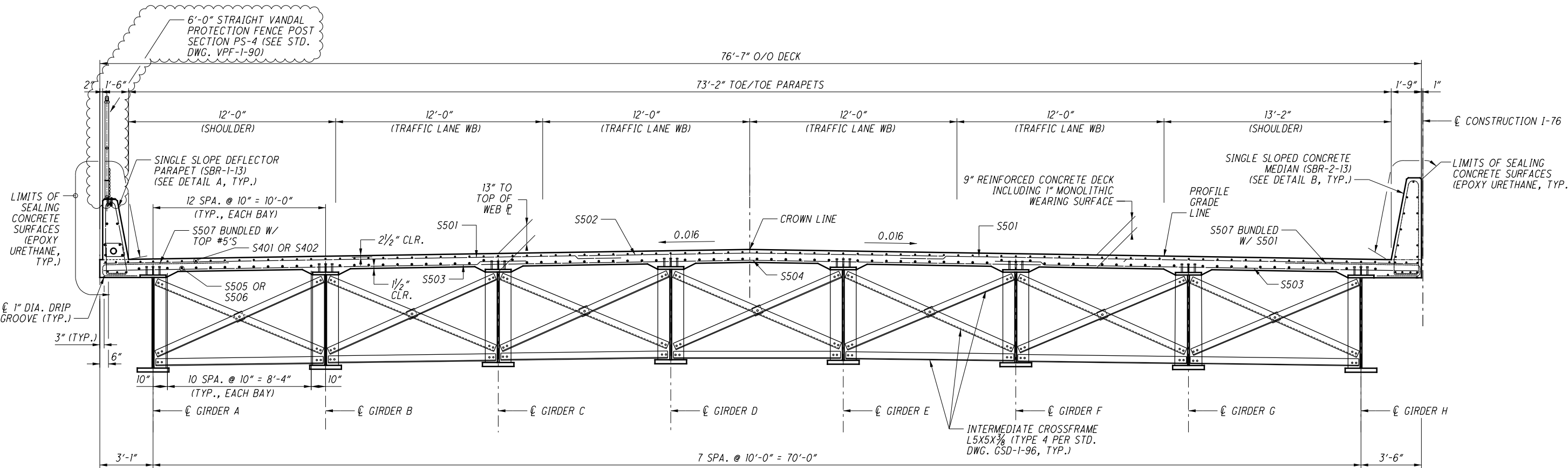
NOTES:

1. DECK SLAB CONCRETE QUANTITY: THE ESTIMATED QUANTITY OF DECK SLAB CONCRETE IS BASED ON THE CONSTANT DECK SLAB THICKNESS, AS SHOWN, PLUS THE QUANTITY OF CONCRETE THAT FORMS EACH GIRDER HAUNCH. THE ESTIMATE ASSUMES A CONSTANT HAUNCH THICKNESS OF 4.00 INCHES AND A CONSTANT HAUNCH WIDTH OUTSIDE THE EDGE OF EACH GIRDER FLANGE OF 9 INCHES. DEVIATE FROM THIS HAUNCH THICKNESS AS NECESSARY TO PLACE THE DECK SURFACE AT THE FINISHED GRADE. THE ALLOWABLE TOLERANCE FOR THE HAUNCH WIDTH OUTSIDE THE EDGE OF GIRDER FLANGE IS ±3 INCHES.

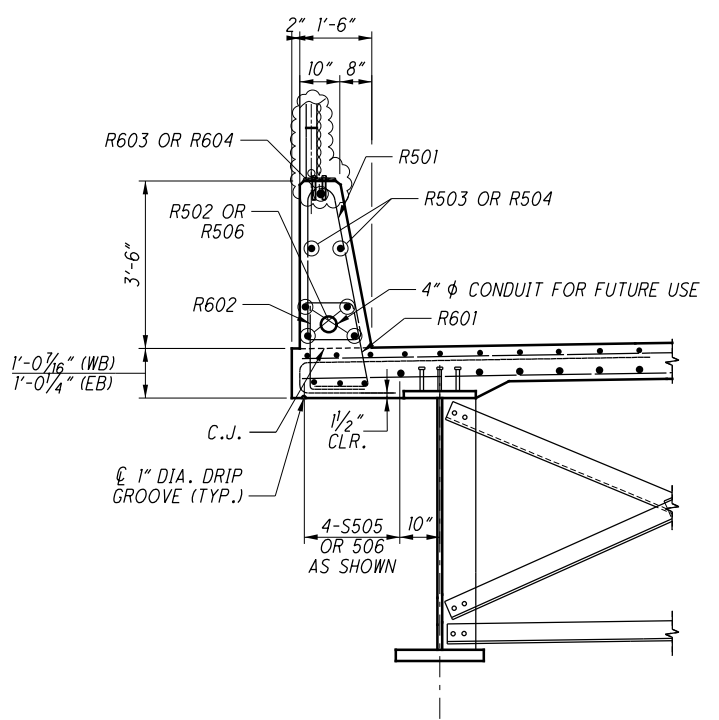
THE HAUNCH THICKNESS WAS MEASURED AT THE CENTERLINE OF THE GIRDER, FROM THE SURFACE OF THE DECK TO THE BOTTOM OF THE TOP FLANGE MINUS THE DECK SLAB THICKNESS. THE AREA OF ALL EMBEDDED STEEL PLATES HAS BEEN DEDUCTED FROM THE HAUNCH QUANTITY IN ACCORDANCE WITH CMS 511.24.
2. FOR GENERAL NOTES, SEE SHEETS 3/62 AND 4/62.
3. FOR FINAL DECK ELEVATIONS, SCREED AND TOP OF HAUNCH, SEE SHEETS 47/62 THRU 53/62.
4. FOR REINFORCING STEEL LIST, SEE SHEET 60/62.
5. FOR DETAILS A AND B, SEE SHEET 44/62.
6. FOR END DIAPHRAGM DETAILS, SEE SHEETS 40/62 THRU 43/62.

REV. BY	DATE	DESCRIPTION
VFG	3/25/16	ADDITION OF VPF FENCE

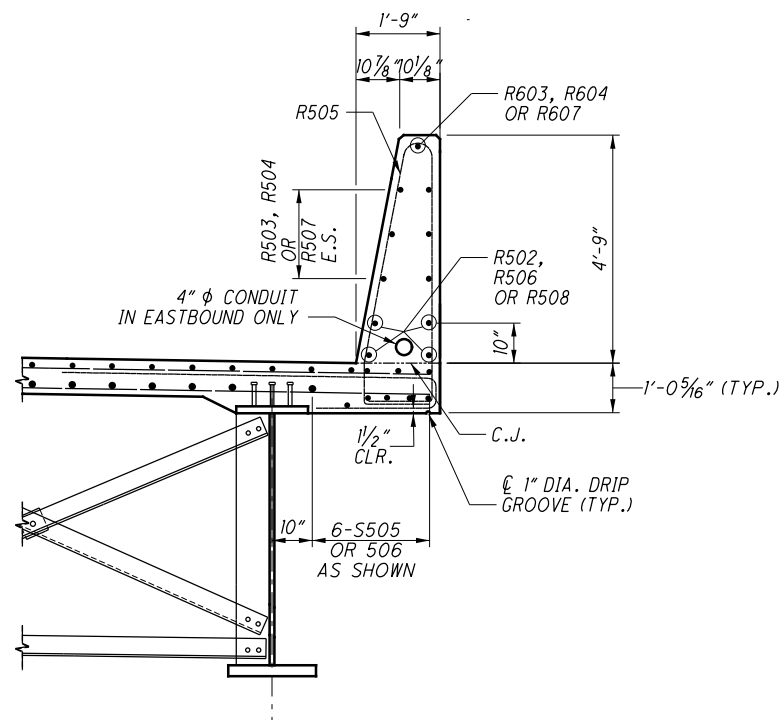
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TRANSVERSE SECTION



DETAIL A



DETAIL B

NOTES:

1. DECK SLAB CONCRETE QUANTITY: THE ESTIMATED QUANTITY OF DECK SLAB CONCRETE IS BASED ON THE CONSTANT DECK SLAB THICKNESS, AS SHOWN, PLUS THE QUANTITY OF CONCRETE THAT FORMS EACH GIRDER HAUNCH. THE ESTIMATE ASSUMES A CONSTANT HAUNCH THICKNESS OF 4.00 INCHES AND A CONSTANT HAUNCH WIDTH OUTSIDE THE EDGE OF EACH GIRDER FLANGE OF 9 INCHES. DEVIATE FROM THIS HAUNCH THICKNESS AS NECESSARY TO PLACE THE DECK SURFACE AT THE FINISHED GRADE. THE ALLOWABLE TOLERANCE FOR THE HAUNCH WIDTH OUTSIDE THE EDGE OF GIRDER FLANGE IS ±3 INCHES.

THE HAUNCH THICKNESS WAS MEASURED AT THE CENTERLINE OF THE GIRDER, FROM THE SURFACE OF THE DECK TO THE BOTTOM OF THE TOP FLANGE MINUS THE DECK SLAB THICKNESS. THE AREA OF ALL EMBEDDED STEEL PLATES HAS BEEN DEDUCTED FROM THE HAUNCH QUANTITY IN ACCORDANCE WITH CMS 511.24.
2. FOR GENERAL NOTES, SEE SHEETS [3/62] AND [4/62].
3. FOR FINAL DECK ELEVATIONS, SCREED AND TOP OF HAUNCH, SEE SHEETS [47/62] THRU [53/62].
4. FOR REINFORCING STEEL LIST, SEE SHEET [62/62].
5. FOR END DIAPHRAGM DETAILS, SEE SHEETS [45/62] AND [46/62].

REV. BY	DATE	DESCRIPTION
VFG	3/25/16	ADDITION OF VPF FENCE

VFG	3/25/16	ADDITION OF VPF FENCE
REV. BY	DATE	DESCRIPTION
DATE COMPLETED		

REVISED 12/28/2015

QUANTITIES CALC. BY	GJM
CHECKED BY	DEB

ITEM ODOT	EXT.	PARTICIPATION 02/IMS/BR	TOTAL	UNIT	DESCRIPTION	SUM-76-10.41L (WESTBOUND) SFN: 7703252				SUM-76-10.41R (EASTBOUND) SFN: 7703252				REF. SHEET		
						ABUTMENTS		PIERS	SUPER.	GENERAL	ABUTMENTS		PIERS		SUPER.	GENERAL
						REAR	FWD.				REAR	FWD.				
202	11203	LS	LS		PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN					LS				LS	3/62 AND 6/62	
202	22900	640	640	SY	APPROACH SLAB REMOVED					267				373		
503	11101	LS	LS		COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN					LS				LS	3/62 AND 9/62	
503	21100	925	925	CY	UNCLASSIFIED EXCAVATION			413				512				
505	11100	LS	LS		PILE DRIVING EQUIPMENT MOBILIZATION					LS				LS		
507	00100	7,130	7,130	FT	STEEL PILES HPI0X42, FURNISHED	1290	1100	880				1500	1400	960		
507	00150	6,140	6,140	FT	STEEL PILES HPI0X42, DRIVEN	1160	990	660				1350	1260	720		
507	92201	1,100	1,100	FT	PREBORED HOLES, AS PER PLAN		484						616		3/62	
507	93300	148	148	EACH	STEEL POINTS OR SHOES	26		44				30		48		
509	10000	506,227	506,227	LB	EPOXY COATED REINFORCING STEEL	6540	6002	57819	163614			7372	7195	69018	188667	
511	21522	1,267	1,267	CY	CLASS QC2 CONCRETE WITH QC/OA, SUPERSTRUCTURE				582					685		
511	33500	4	4	EACH	SEMI-INTEGRAL DIAPHRAGM GUIDE	1	1					1	1			
511	34450	168	168	CY	CLASS QC2 CONCRETE WITH QC/OA, BRIDGE DECK (PARAPET)				84					84		
511	41012	397	397	CY	CLASS QC1 CONCRETE WITH QC/OA, PIER ABOVE FOOTINGS			183						214		
511	43512	437	437	CY	CLASS QC1 CONCRETE WITH QC/OA, ABUTMENT INCLUDING FOOTING	108	93					118	118			
511	46512	370	370	CY	CLASS QC1 CONCRETE WITH QC/OA, FOOTING			163						207		
512	10101	2,909	2,909	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN	123	109	536	515	137		147	142	623	517	4/62
512	33000	11	11	SY	TYPE 2 WATERPROOFING	5	2					2	2			
513	10260	928,600	928,600	LB	STRUCTURAL STEEL MEMBERS, LEVEL 3				437100					491500		
513	20000	16,272	16,272	EACH	WELDED STUD SHEAR CONNECTORS				7656					8616		
514	00060	5,000	5,000	SF	FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT				2500					2500		
514	00066	5,000	5,000	SF	FIELD PAINTING STRUCTURAL STEEL, FINISH COAT				2500					2500		
514	10000	6	6	EACH	FINAL INSPECTION REPAIR				3					3		
516	13600	108	108	SF	1" PREFORMED EXPANSION JOINT FILLER	66			21					21		
516	13900	633	633	SF	2" PREFORMED EXPANSION JOINT FILLER	101	121		65			145	139	62		
516	14020	388	388	FT	SEMI-INTEGRAL ABUTMENT EXPANSION JOINT SEAL	91	91					105	101			
516	44201	34	34	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (1'-2 1/2" x 1'-3 3/4" x 3.5" WITH 1'-3 1/2" x 1'-5 3/4" x 1.50" LOAD PLATE)	8	8					9	9		36/62	
516	44201	34	34	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (1'-7" x 1'-3 3/4" x 3.5" WITH 1'-8" x 1'-5 3/4" x 1.83" LOAD PLATE)			16						18	36/62	
518	21200	204	204	CY	POROUS BACKFILL WITH FILTER FABRIC	48	45					56	55			
518	40000	390	390	FT	6" PERFORATED CORRUGATED PLASTIC PIPE	92	85					108	105			
518	40010	80	80	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS	20	20					20	20			
526	30001	1,098	1,098	SY	REINFORCED CONCRETE APPROACH SLABS (1'-17"), AS PER PLAN					514				584	53/62 AND 54/62	
607	39900	426	426	FT	VANDAL PROTECTION FENCE, 6' STRAIGHT, COATED FABRIC				212					214		

FOR MSE WALL 6 AND 7 QUANTITIES, SEE SHEET 1619 AND 1620.

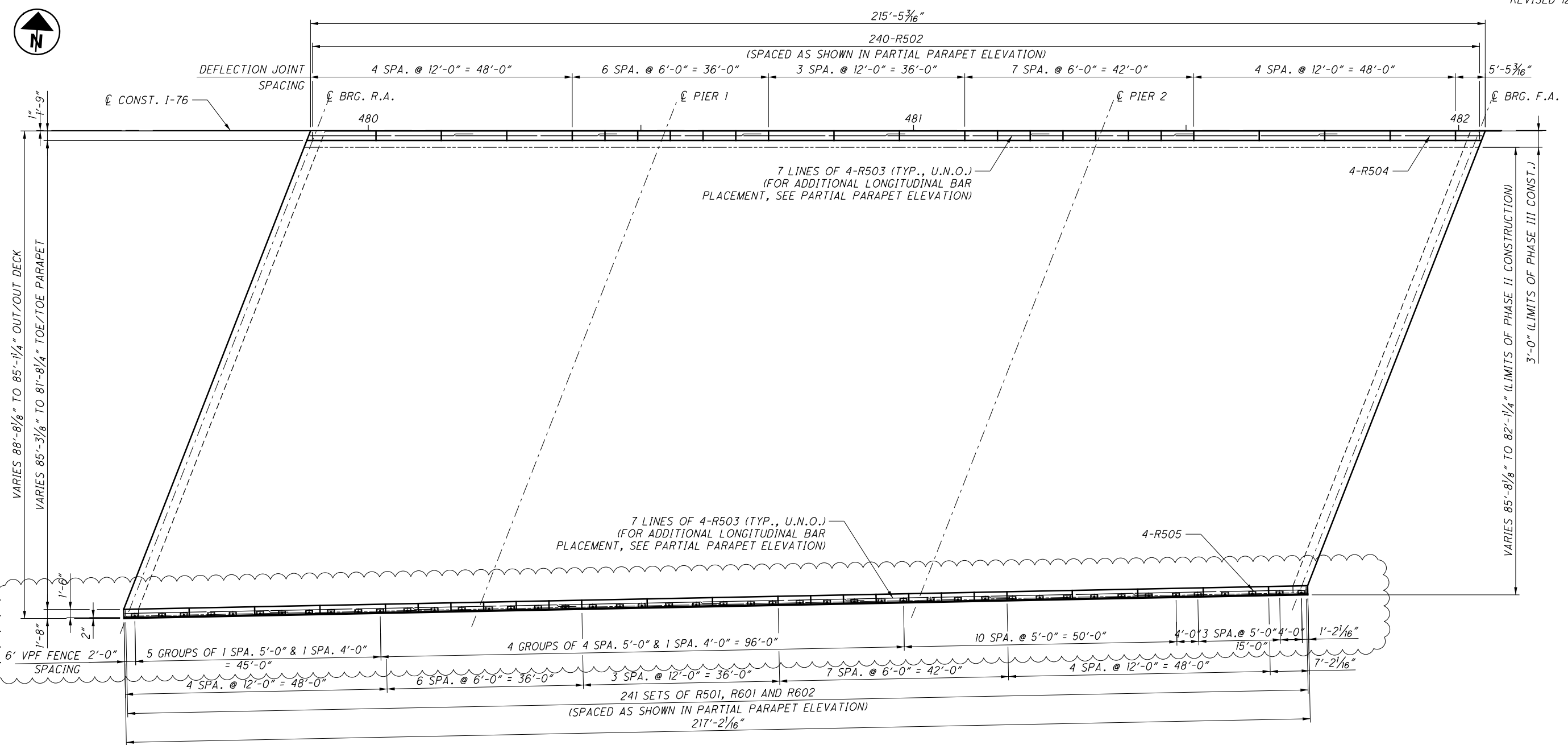
1822 AND 1822

DESIGN AGENCY: ARKON CLEVELAND COLUMBUS
 584 WHITE POND DRIVE
 CLEVELAND, OHIO 44130-8369
URS
 DATE: 12/28/2015
 REVIEWED BY: GJM
 STRUCTURE FILE NUMBER: 7703252
 DESIGNED BY: GJM
 CHECKED BY: RSC
ESTIMATED QUANTITIES
 BRIDGE NO. SUM-76-1041 L/R
 I-76 OVER SWEITZER AVE. AND CSXT RR
SUM-76-10.00
 PID No. 77269
 5 / 62
 1304
 1822

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DESIGNED	GJM	CHECKED	RSC
DRAWN	GJM	REVIEWED	
DATE	7/24/16	STRUCTURE FILE NUMBER	7703252

PARAPET AND MEDIAN BARRIER PLAN - EASTBOUND
 BRIDGE NO. SUM-76-1041 L/R
 I-76 OVER SWEITZER AVE. AND CSXT RR



PARAPET AND MEDIAN BARRIER PLAN - EASTBOUND LANES

REQUIRED MIN. LAP LENGTHS	
NO. 5 BARS	3'-7"

No. OF PANELS	LENGTH "X"	No. OF BARS IN EA. PANEL "Y"	BAR "Z1"	BAR "Z2"
22	12'-0"	13	R603	R506
26	6'-0"	7	R604	R507
1	5'-5 3/16"	6	R605	R508
1	7'-2 1/16"	7	R606	R509

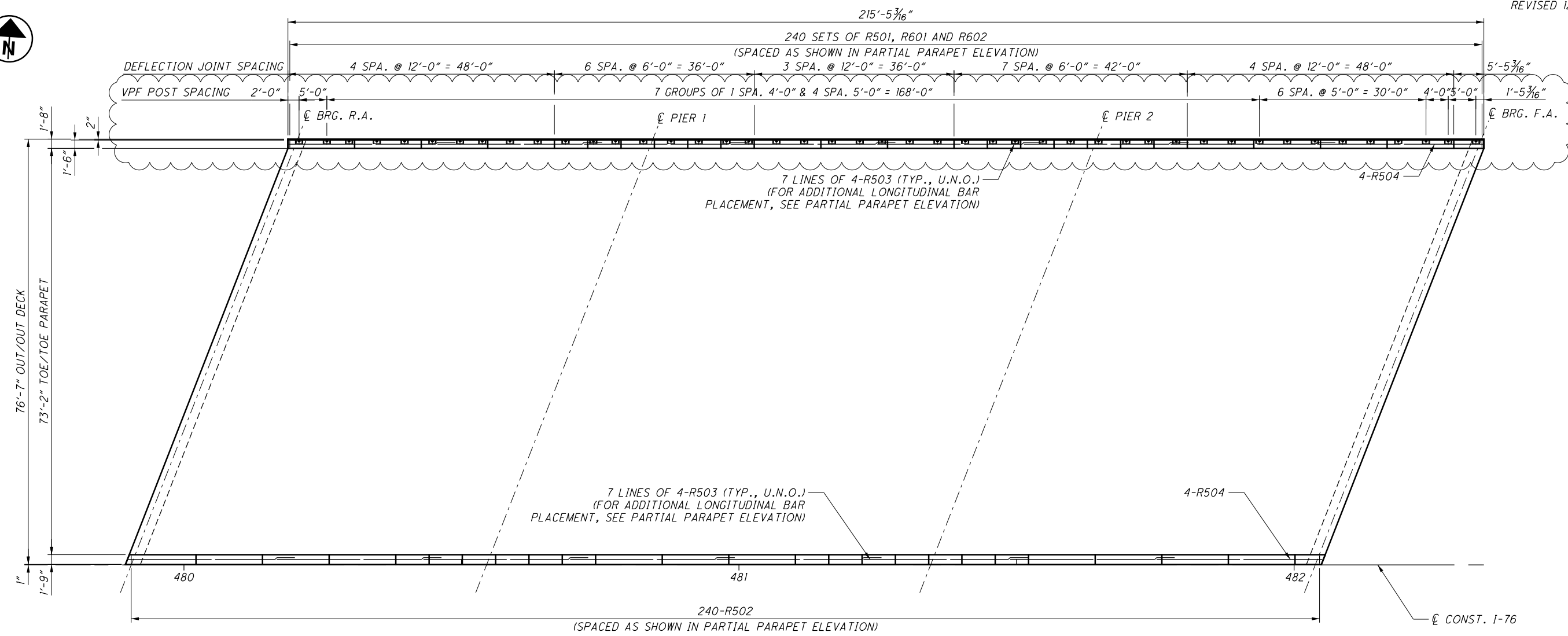
No. OF PANELS	LENGTH "X"	No. OF BARS IN EA. PANEL "Y"	BAR "Z1"	BAR "Z2"
22	12'-0"	13	R603	R506
26	6'-0"	7	R604	R507
2	5'-5 3/16"	6	R605	R508

SEE PARTIAL PARAPET AND MEDIAN ELEVATION ON SHEET 40/62 FOR LOCATION OF PARAPET AND MEDIAN REINFORCEMENT.

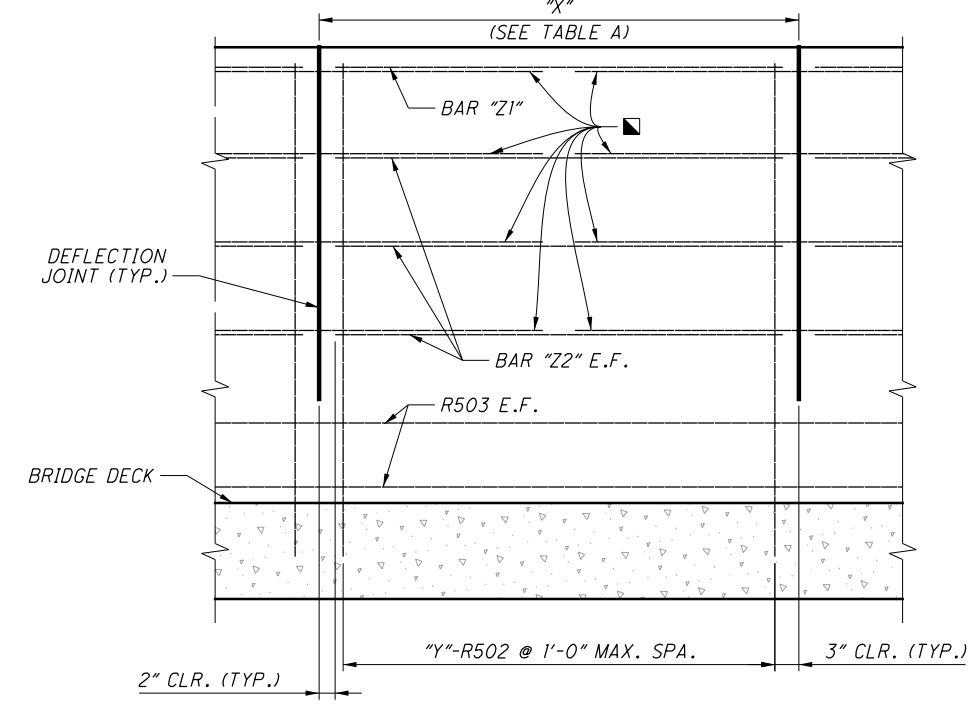
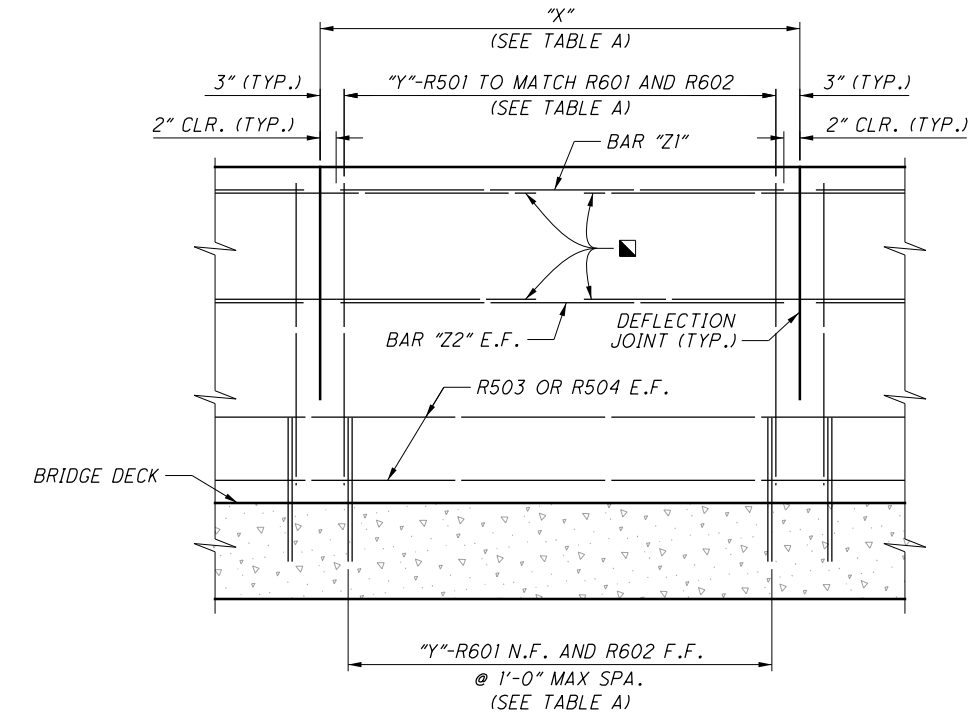
- NOTES:**
- FOR DEFLECTION JOINT AND ADDITIONAL PARAPET DETAILS, SEE SHEETS 41/62 AND 42/62.
 - FOR PARTIAL PARAPET AND MEDIAN ELEVATION, SEE SHEET 40/62.
 - FOR SLAB PLAN, SEE SHEET 37/62.
 - FOR TRANSVERSE SECTION, SEE SHEET 43/62.
 - FOR REINFORCING STEEL LIST, SEE SHEET 61/62.
 - EASTBOUND FASCIA PARAPET IS BUILT IN PHASE II & MEDIAN BARRIER IS BUILT IN PHASE III.

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VFG	3/25/16	ADDITION OF VPF FENCE
REV. BY	DATE	DESCRIPTION
DATE COMPLETED		



PARAPET AND MEDIAN BARRIER PLAN - WESTBOUND LANES



LEGEND:
 ■ : 1/2" DIA. GLASS FIBER REINFORCED POLYMER (GFRP) STIFFENING REINFORCEMENT (SEE SHEET 41/62 FOR ADDITIONAL NOTES AND DETAILS)

REQUIRED MIN. LAP LENGTHS	
NO. 5 BARS	3'-7"

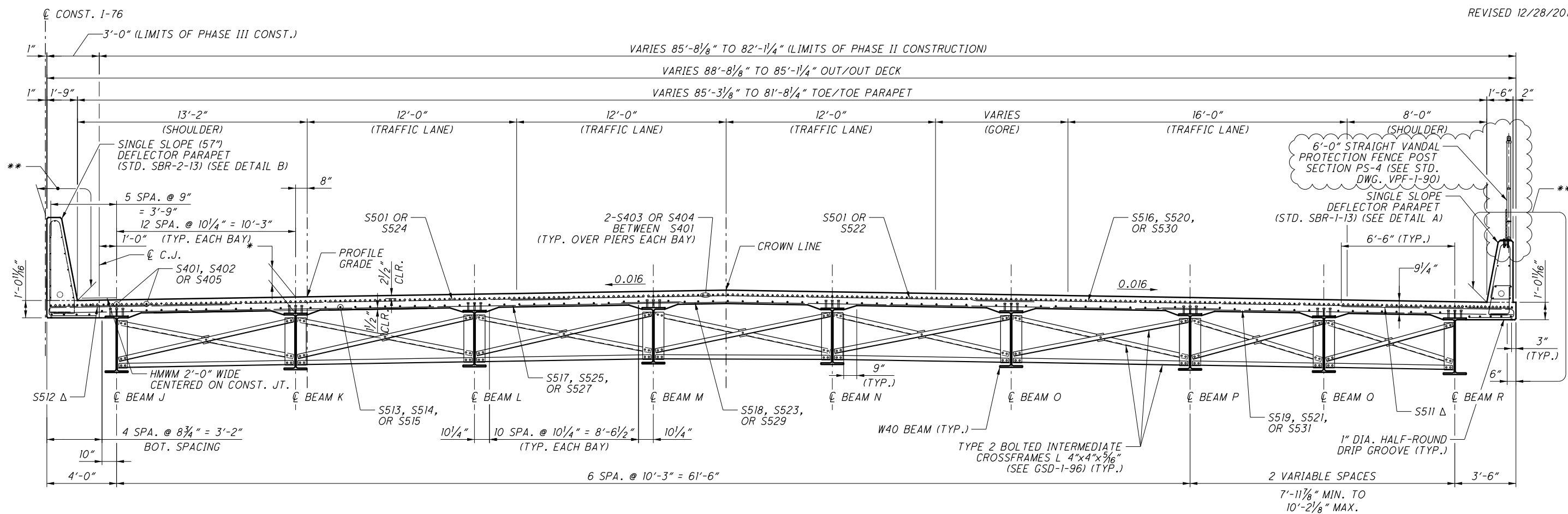
- NOTES:**
- FOR DEFLECTION JOINT AND ADDITIONAL PARAPET DETAILS, SEE SHEETS 41/62 AND 42/62.
 - FOR SLAB PLAN, SEE SHEET 38/62.
 - FOR TRANSVERSE SECTION, SEE SHEET 46/62.
 - FOR REINFORCING STEEL LIST, SEE SHEET 62/62.
 - WESTBOUND PARAPET AND MEDIAN IS BUILT IN PHASE III.
 - FOR PARAPET & MEDIAN BARRIER TABLES, SEE SHEET 39/62.

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REV. BY	DATE	DESCRIPTION
VFG	3/25/16	ADDITION OF VPF FENCE
DATE COMPLETED		

PARTIAL PARAPET ELEVATION
 (BRIDGE DECK REINFORCING NOT SHOWN FOR CLARITY)

PARTIAL MEDIAN ELEVATION
 (BRIDGE DECK REINFORCING NOT SHOWN FOR CLARITY)



TRANSVERSE SECTION - EASTBOUND LANES

REQUIRED MIN. LAP LENGTHS	
NO. 5 BARS	3'-7"

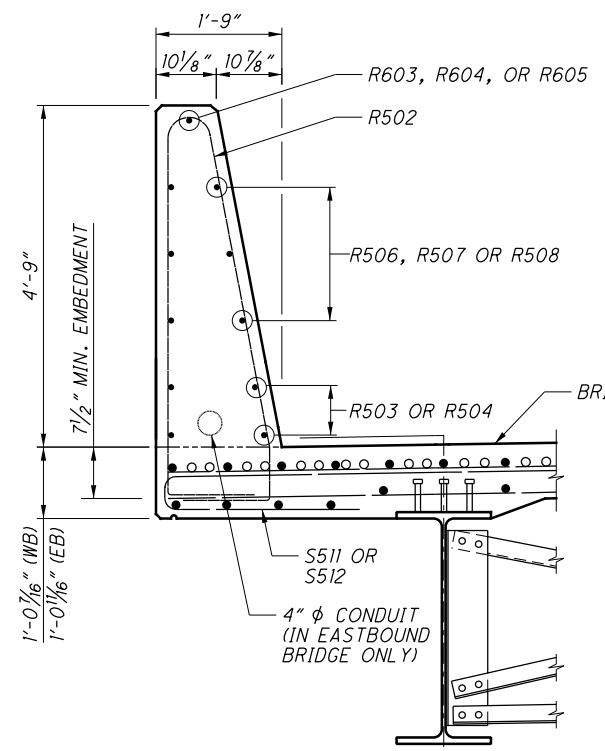
NOTES:

- DECK SLAB CONCRETE QUANTITY: THE ESTIMATED QUANTITY OF DECK SLAB CONCRETE IS BASED ON THE CONSTANT DECK SLAB THICKNESS, AS SHOWN, PLUS THE QUANTITY OF CONCRETE THAT FORMS EACH BEAM HAUNCH. THE ESTIMATE ASSUMES A CONSTANT HAUNCH THICKNESS OF 3/16 INCHES AND A CONSTANT HAUNCH WIDTH OUTSIDE THE EDGE OF EACH BEAM FLANGE OF 9 INCHES. DEVIATE FROM THIS HAUNCH THICKNESS AS NECESSARY TO PLACE THE DECK SURFACE AT THE FINISHED GRADE. THE ALLOWABLE TOLERANCE FOR THE HAUNCH WIDTH OUTSIDE THE EDGE OF BEAM FLANGE IS ±3 INCHES.
- FOR GENERAL NOTES, SEE SHEETS 3/62 AND 4/62.
- FOR FINAL DECK ELEVATIONS, SCREED AND TOP OF HAUNCH, SEE SHEETS 49/62 AND 51/62.
- FOR END DIAPHRAGM DETAILS, SEE SHEETS 44/62 AND 45/62.
- FOR REINFORCING STEEL LIST, SEE SHEET 61/62.
- LEAVE OVERHANG DECK REINFORCING EXPOSED BEYOND CONSTRUCTION JOINT IN PHASE II. CONTRACTOR HAS THE OPTION TO USE MECHANICAL CONNECTORS ON DECK TRANSVERSE BARS AT THE CONSTRUCTION JOINT AT NO ADDITIONAL COST TO THE DEPARTMENT. MECHANICAL CONNECTORS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL AND COMPLY WITH CMS REQUIREMENTS.

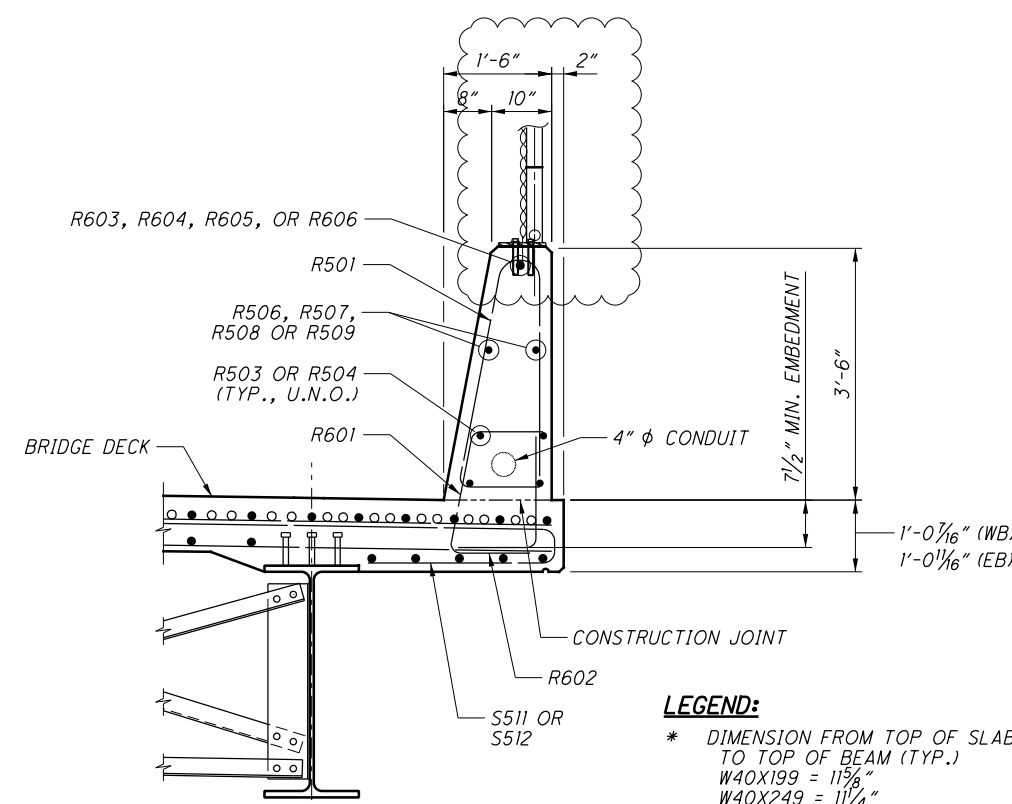
THE HAUNCH THICKNESS WAS MEASURED AT THE CENTERLINE OF THE BEAM, FROM THE SURFACE OF THE DECK TO THE BOTTOM OF THE TOP FLANGE MINUS THE DECK SLAB THICKNESS. THE AREA OF ALL EMBEDDED STEEL PLATES HAS BEEN DEDUCTED FROM THE HAUNCH QUANTITY IN ACCORDANCE WITH 511.24.

LEGEND:

- * DIMENSION FROM TOP OF SLAB TO TOP OF BEAM (TYP.)
 W40X199 = 11 5/8"
 W40X249 = 11 1/4"
- ** LIMITS OF SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)
- Δ S511 AND S512 BUNDLED WITH S501 OR S502



B B DETAIL
 43 46

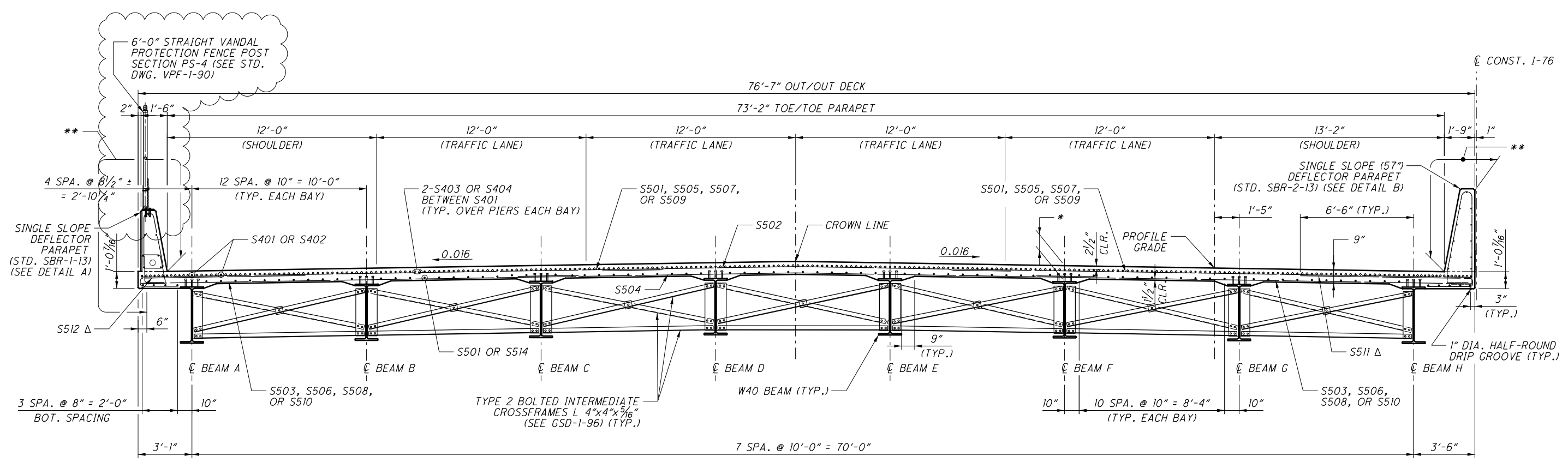


A A DETAIL
 43 46

REV. BY	DATE	DESCRIPTION
VFG	3/25/16	ADDITION OF VPF FENCE

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TRANSVERSE SECTION - WESTBOUND LANES

NOTES:

1. DECK SLAB CONCRETE QUANTITY: THE ESTIMATED QUANTITY OF DECK SLAB CONCRETE IS BASED ON THE CONSTANT DECK SLAB THICKNESS, AS SHOWN, PLUS THE QUANTITY OF CONCRETE THAT FORMS EACH BEAM HAUNCH. THE ESTIMATE ASSUMES A CONSTANT HAUNCH THICKNESS OF 3 3/16 INCHES AND A CONSTANT HAUNCH WIDTH OUTSIDE THE EDGE OF EACH BEAM FLANGE OF 9 INCHES. DEVIATE FROM THIS HAUNCH THICKNESS AS NECESSARY TO PLACE THE DECK SURFACE AT THE FINISHED GRADE. THE ALLOWABLE TOLERANCE FOR THE HAUNCH WIDTH OUTSIDE THE EDGE OF BEAM FLANGE IS ±3 INCHES.

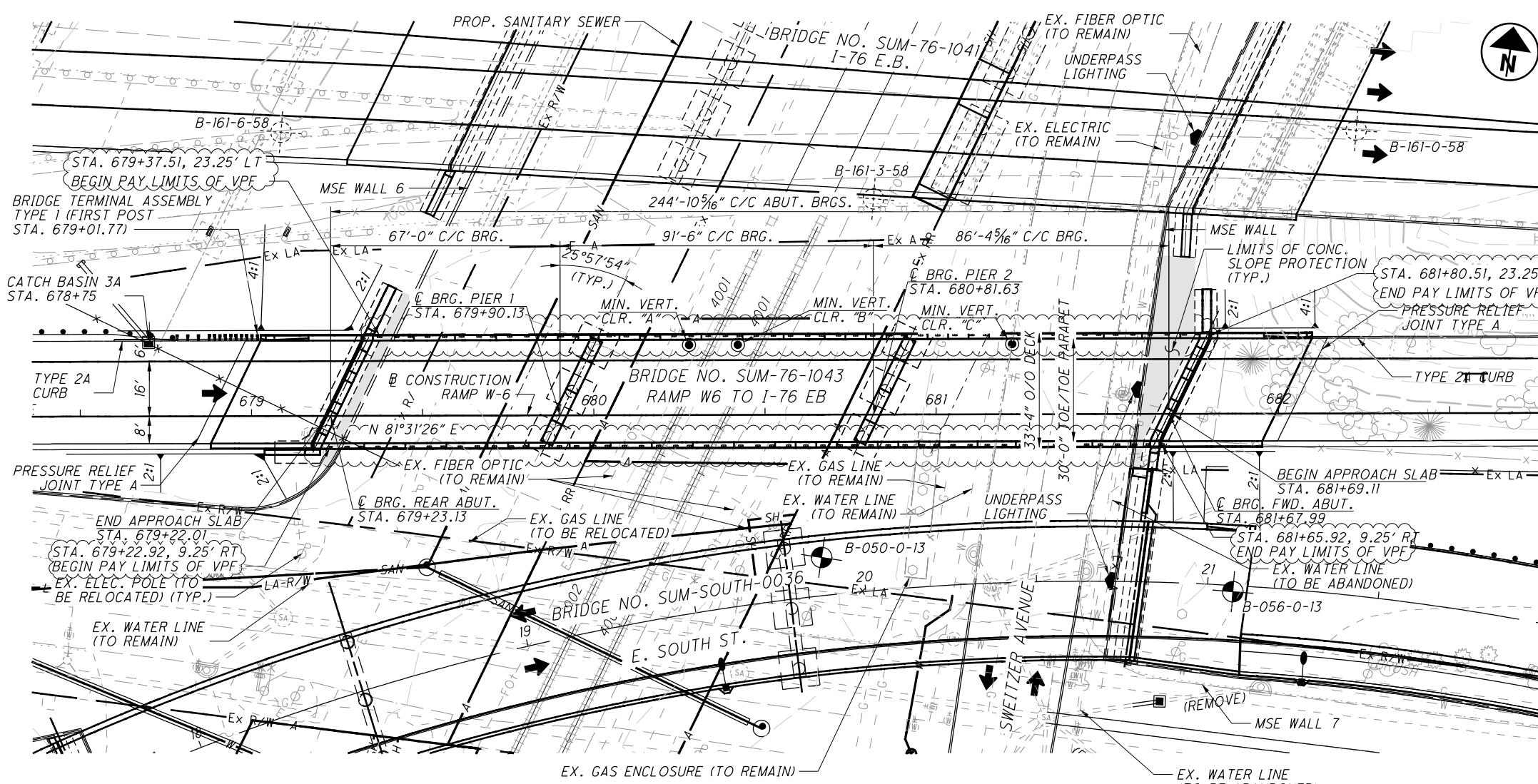
THE HAUNCH THICKNESS WAS MEASURED AT THE CENTERLINE OF THE BEAM, FROM THE SURFACE OF THE DECK TO THE BOTTOM OF THE TOP FLANGE MINUS THE DECK SLAB THICKNESS. THE AREA OF ALL EMBEDDED STEEL PLATES HAS BEEN DEDUCTED FROM THE HAUNCH QUANTITY IN ACCORDANCE WITH 511.24.
2. FOR GENERAL NOTES, SEE SHEETS [3/62] AND [4/62].
3. FOR FINAL DECK ELEVATIONS, SCREED AND TOP OF HAUNCH, SEE SHEETS [50/62] AND [52/62].
4. FOR END DIAPHRAGM DETAILS, SEE SHEETS [47/62] AND [48/62].
5. FOR REINFORCING STEEL LIST, SEE SHEET [62/62].
6. FOR DETAIL A AND DETAIL B, SEE SHEET [43/62].
7. WESTBOUND STRUCTURE IS BUILT IN PHASE III.

REQUIRED MIN. LAP LENGTHS	
NO. 5 BARS	3'-7"

- LEGEND:**
- * DIMENSION FROM TOP OF SLAB TO TOP OF BEAM (TYP.)
 W40X199 = 11 3/8"
 W40X249 = 11"
 - ** LIMITS OF SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)
 - Δ S511 AND S512 BUNDLED WITH S501 OR S502

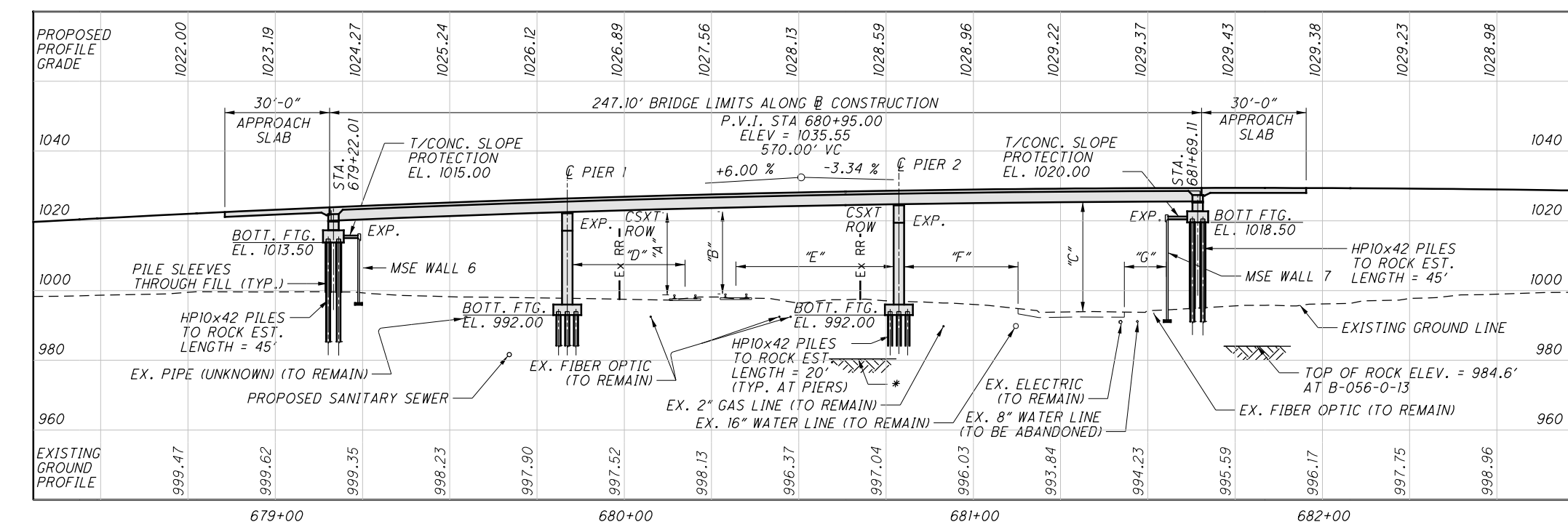
REV.	BY	DATE	DESCRIPTION
	VFG	3/25/16	ADDITION OF VPF FENCE
			DATE COMPLETED

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NOTE: CSXT MILE POST 131 IS AT CSXT TRACK STA. 3986+64.90

PLAN



PROFILE
(ALONG @ RAMP W-6)

VFG	3/25/16	ADDITION OF VPF FENCE
REV. BY	DATE	DESCRIPTION
DATE COMPLETED		

VERTICAL CLEARANCE		
	PROP.	MIN.
A	24'-10"	23'-0"
B	24'-6 1/2"	23'-0"
C	29'-6"	14'-6"

HORIZONTAL CLEARANCE		
	PROP.	MIN.
D	29'-2"	25'-0"
E	36'-7"	25'-0"
F	27'-10"	8'-0"
G	9'-3"	8'-0"

LEGEND:

- PT. OF MINIMUM VERTICAL CLEARANCE
- PROJECT BORING LOCATION
- HISTORIC BORING LOCATION
- * - TOP OF ROCK ELEV. = 980.3 AT B-050-0-13

NOTES:

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

FOR BENCHMARK INFORMATION, SEE ROADWAY PLAN SHEET 10/1822

DESIGN TRAFFIC:

2017 ADT = 7,100 2017 ADTT = 570
2037 ADT = 7,100 2037 ADTT = 570

FOUNDATION DATA:

ALL PROPOSED PILE SHALL BE HP 10x42 END BEARING PILES FOUNDED IN ROCK WITH AN ESTIMATED LENGTH OF 45 FEET FOR THE REAR ABUTMENT, 20 FEET FOR PIER 1 AND PIER 2, AND 45 FEET FOR THE FORWARD ABUTMENT.

EXISTING STRUCTURE	
EXISTING STRUCTURE IS A PORTION OF I-76 MAINLINE BRIDGE APPROX. 75' NORTH OF PROPOSED STRUCTURE. SEE SUM-76-1041 PLANS FOR REMOVAL DETAILS AND PAYMENT.	
TYPE: CONTINUOUS WELDED STEEL GIRDERS WITH NON-COMPOSITE REINFORCED CONCRETE DECK ON REINFORCED CONCRETE PIERS AND ABUTMENTS ON PILE FOUNDATION.	
SPANS: 81'-0"±, 118'-7 1/16"±, 84'-6 1/4"±, 81'-0"± C/C BRGS.	
ROADWAY: 27'-8"± F/F SAFETY CURB	
LOADING: CF 2000	
SKEW: VARIES	
APPROACH SLABS: 25'-0"± LONG (AS-1-54)	
ALIGNMENT: CURVE RIGHT	
CROWN: VARIES	
STRUCTURAL FILE NUMBER: 7703155	
DATE BUILT: 1961	
DISPOSITION: EXISTING STRUCTURE TO BE REMOVED	

PROPOSED STRUCTURE	
TYPE: CONTINUOUS ROLLED STEEL BEAM, A709 GRADE 50W WITH COMPOSITE REINFORCED CONCRETE DECK ON REINFORCED CONCRETE CAP AND COLUMN PIERS AND SEMI-INTEGRAL MSE ABUTMENTS ON PILE FOUNDATIONS.	
SPANS: 67'-0", 91'-6", 86'-4 5/16" C/C BEARINGS ALONG @ CONST.	
ROADWAY: 30'-0" TOE/TOE PARAPET	
LOADING: HL-93 AND 60 PSF FUTURE WEARING SURFACE	
SKEW: 25°57'54" L.F.	
WEARING SURFACE: 1" MONOLITHIC CONCRETE	
APPROACH SLABS: 30'-0" LONG (AS-1-81), AS PER PLAN	
ALIGNMENT: TANGENT	
CROWN: 0.016 FT/FT	
COORDINATES: LATITUDE N 41°03'43" LONGITUDE W 81°31'30"	

DESIGN AGENCY	ARCON CLEVELAND COLUMBUS
DATE	7/14
REVIEWED	BKL
DRAWN	IRM
DESIGNED	BTA
CHECKED	DEB
SUMMIT COUNTY	STA. 679+22.01
SITE PLAN	BRIDGE NO. SUM-76-1043
	I-76 RAMP W-6 OVER SWITZLER AVE. AND CSXT RR
	SUM-76-10.00
	PID No. 77269
	1/28
	1362
	1822

SFN: 7703163

QUANTITIES CALC. BY	DEB
CHECKED BY	SAM

ITEM ODOT	EXT.	TOTAL	TOTAL	UNIT	DESCRIPTION	ABUTMENTS		PIERS	SUPER.	GENERAL	REF. SHEET
		02/IMS/BR				REAR	FWD.				
503	11100	LS	LS		COFFERDAMS AND EXCAVATION BRACING					LS	
503	21100	198	198	CY	UNCLASSIFIED EXCAVATION			198			
505	11100	LS	LS		PILE DRIVING EQUIPMENT MOBILIZATION					LS	
507	00100	2,200	2,200	FT	STEEL PILES HPI0X42, FURNISHED	800	800	600			
507	00150	1,920	1,920	FT	STEEL PILES HPI0X42, DRIVEN	720	720	480			
507	92201	256	256	FT	PREBORED HOLES, AS PER PLAN		256				2/28
507	93300	40	40	EACH	STEEL POINTS OR SHOES	16		24			
509	10000	129,256	129,256	LB	EPOXY COATED REINFORCING STEEL	4733	3966	29465	91092		
511	21522	274	274	CY	CLASS QC2 CONCRETE WITH QC/OA, SUPERSTRUCTURE				274		
511	33500	2	2	EACH	SEMI-INTEGRAL DIAPHRAGM GUIDE	1	1				
511	34450	78	78	CY	CLASS QC2 CONCRETE WITH QC/OA, BRIDGE DECK (PARAPET)				78		
511	41012	86	86	CY	CLASS QC1 CONCRETE WITH QC/OA, PIER ABOVE FOOTINGS			86			
511	43512	138	138	CY	CLASS QC1 CONCRETE WITH QC/OA, ABUTMENT INCLUDING FOOTING	73	65				
511	46512	77	77	CY	CLASS QC1 CONCRETE WITH QC/OA, FOOTING			77			
512	10101	1,024	1,024	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN	83	79	233	522	107	2/28
513	10260	217,100	217,100	LB	STRUCTURAL STEEL MEMBERS, LEVEL 3				217,100		
513	20000	3,384	3,384	EACH	WELDED STUD SHEAR CONNECTORS				3,384		
514	00060	2,940	2,940	SF	FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT				2,940		
514	00066	2,940	2,940	SF	FIELD PAINTING STRUCTURAL STEEL, FINISH COAT				2,940		
514	10000	4	4	EACH	FINAL INSPECTION REPAIR				4		
516	13600	18	18	SF	1" PREFORMED EXPANSION JOINT FILLER					18	
516	13900	185	185	SF	2" PREFORMED EXPANSION JOINT FILLER	29	29			127	
516	14020	96	96	FT	SEMI-INTEGRAL ABUTMENT EXPANSION JOINT SEAL	48	48				
516	44201	4	4	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (1'-6 3/4" x 1'-3 1/2" x 3.32" WITH 1'-8 3/4" x 1'-4 1/2" x 2.12" LOAD PLATE)			4			15/28
516	44201	4	4	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (1'-6 3/4" x 1'-3 1/2" x 3.32" WITH 1'-8 3/4" x 1'-4 1/2" x 2.28" LOAD PLATE)			4			15/28
516	44201	8	8	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (1'-3 3/4" x 1'-2 1/2" x 3.70" WITH 1'-5 3/4" x 1'-3 1/2" x 1.5" LOAD PLATE)	4	4				15/28
518	21200	66	66	CY	POROUS BACKFILL WITH FILTER FABRIC	36	30				
518	40000	126	126	FT	6" PERFORATED CORRUGATED PLASTIC PIPE	68	58				
518	40010	40	40	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS	20	20				
526	30001	224	224	SY	REINFORCED CONCRETE APPROACH SLABS (1-17'), AS PER PLAN					224	23/28
607	39900	486	486	FT	VANDAL PROTECTION FENCE, 6' STRAIGHT, COATED FABRIC				486		

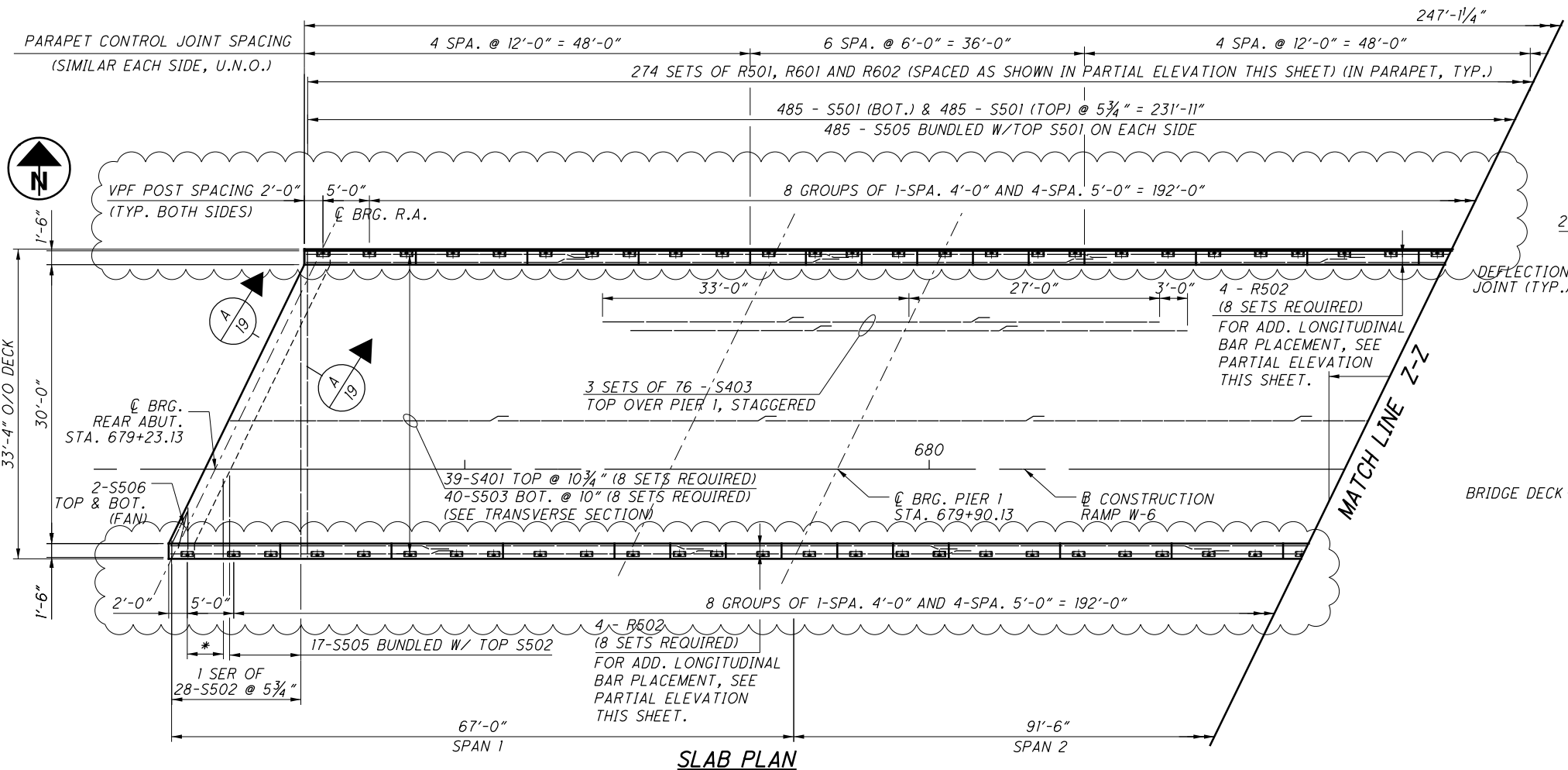
FOR MSE WALL 6 AND MSE WALL 7 QUANTITIES SEE SHEETS 1619/1822 AND 1620/1822.

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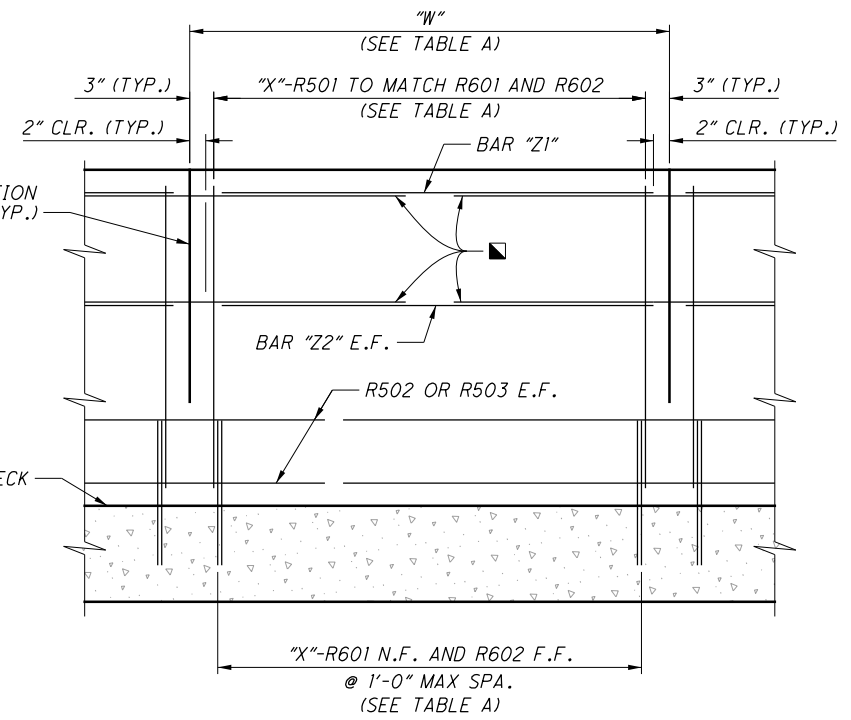
VFG	3/25/16	ADDITION OF VPF FENCE
REV. BY	DATE	DESCRIPTION
DATE COMPLETED		

DESIGN AGENCY: AKRON CLEVELAND COLUMBUS
 584 WHITE POND DRIVE
 COLUMBUS, OH 43215-1000
URS
 DATE: 7/14
 REVIEWED: BKL
 STRUCTURE FILE NUMBER: 7703163
 DRAWN: JDM
 CHECKED: DEB
 DESIGNED: SAM
 ESTIMATED QUANTITIES
 BRIDGE NO. SUM-76-1043
 I-76 RAMP W-6 OVER SWEITZER AVE. AND CSXT RR
 SUM-76-10.00
 PID No. 77269
 4/28
 1365
 1822

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SLAB PLAN



PARTIAL PARAPET ELEVATION
(BRIDGE DECK REINFORCING NOT SHOWN FOR CLARITY)

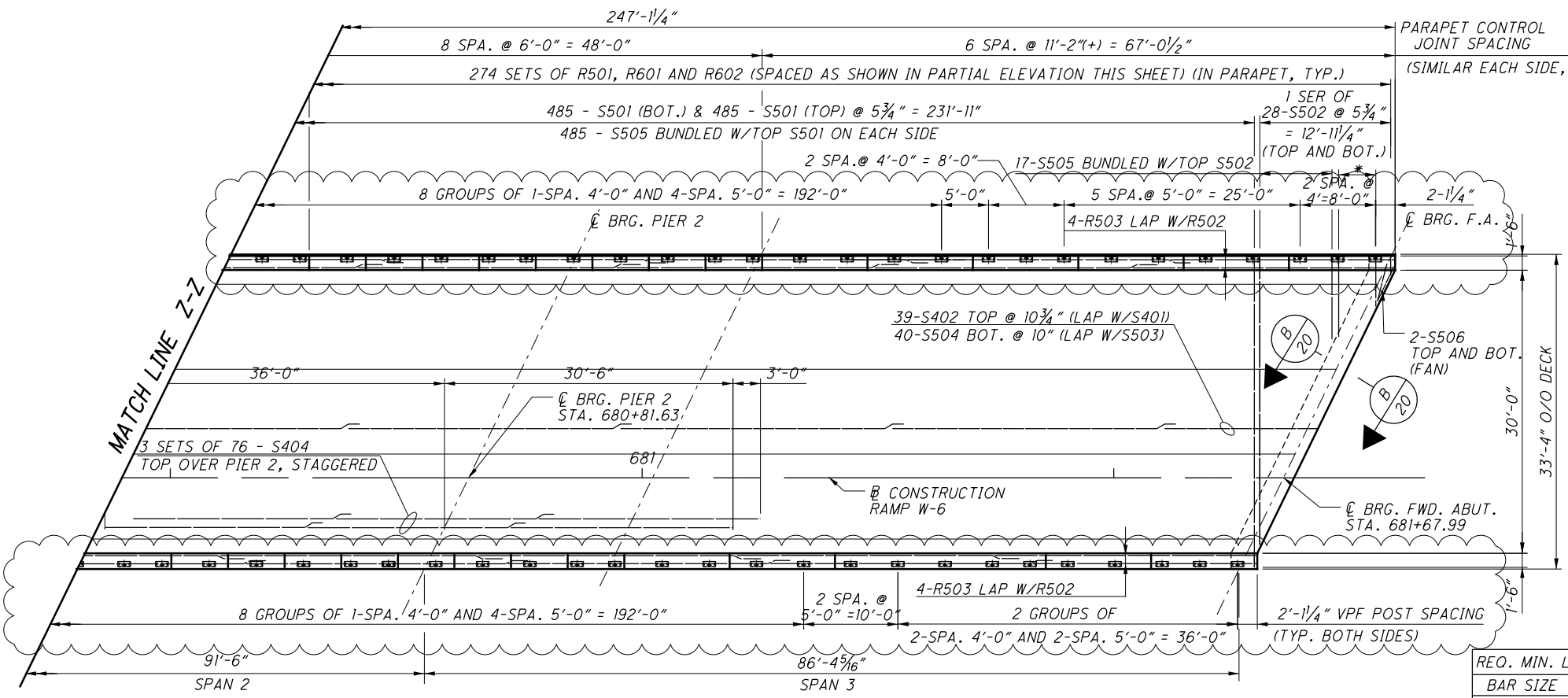
TABLE A				
NO. OF PANELS	"W"	"X"	BAR "Z1"	BAR "Z2"
16	12'-0"	13	R603	R504
28	6'-0"	7	R604	R505
12	11'-2"	12	R605	R506

LEGEND:

- * - 1 SER. OF 6-S507 BUNDLED W/ TOP S502
- : 1/2" DIA. GLASS FIBER REINFORCED POLYMER (GFRP) STIFFENING REINFORCEMENT (SEE SHEET 17/28 FOR ADDITIONAL NOTES AND DETAILS)

NOTES:

1. FOR GENERAL NOTES SEE SHEET 2/28 .
2. FOR REINFORCING STEEL LIST SEE SHEET 28/28 .
3. FOR ABUTMENT DIAPHRAGM DETAILS SEE SHEETS 19/28 & 20/28 .
4. FOR SCREED, TOP OF HAUNCH & FINAL DECK ELEVATIONS SEE SHEETS 21/28 & 22/28 .
5. FOR TRANSVERSE SECTION SEE SHEET 18/28 .
6. FOR ADDITIONAL PARAPET TRANSITION NOTES AND DETAILS INCLUDING REINFORCING STEEL NOT SHOWN, SEE ODOT STANDARD DRAWING SBR-1-13 & SHEET 17/28 .

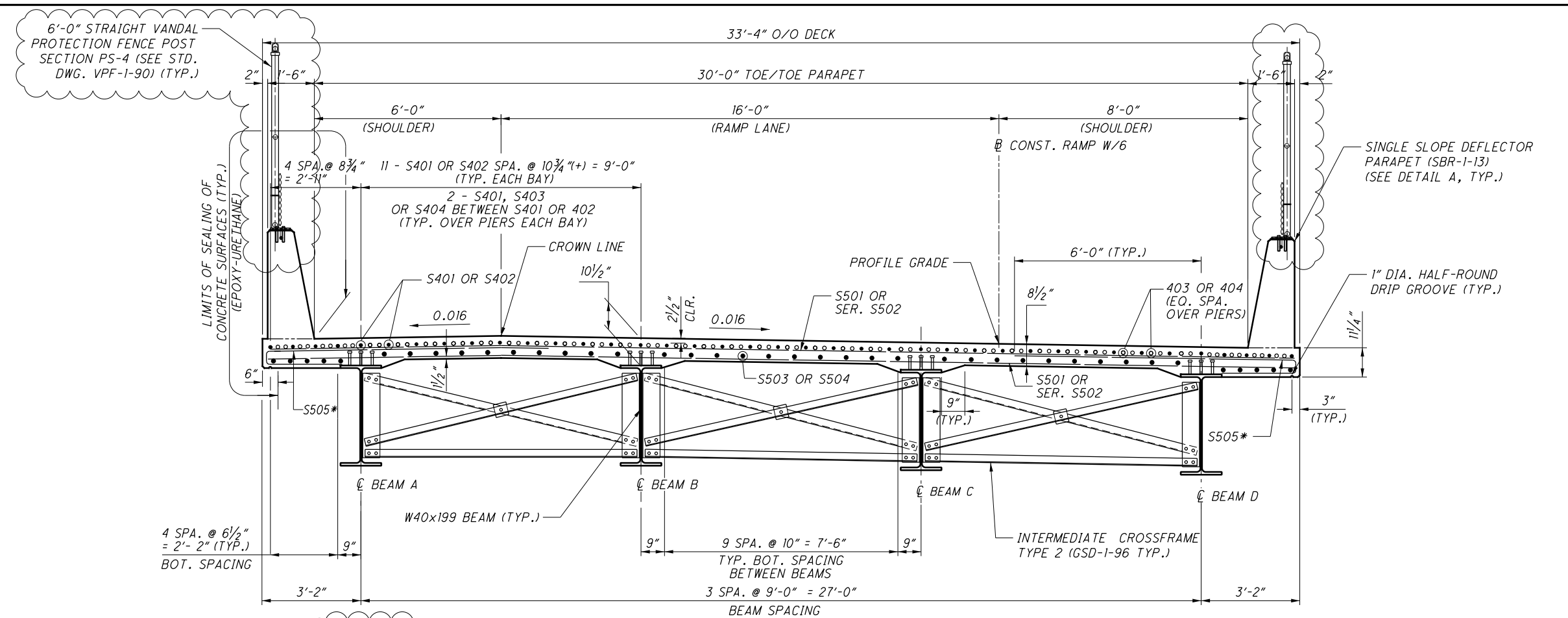


SLAB PLAN

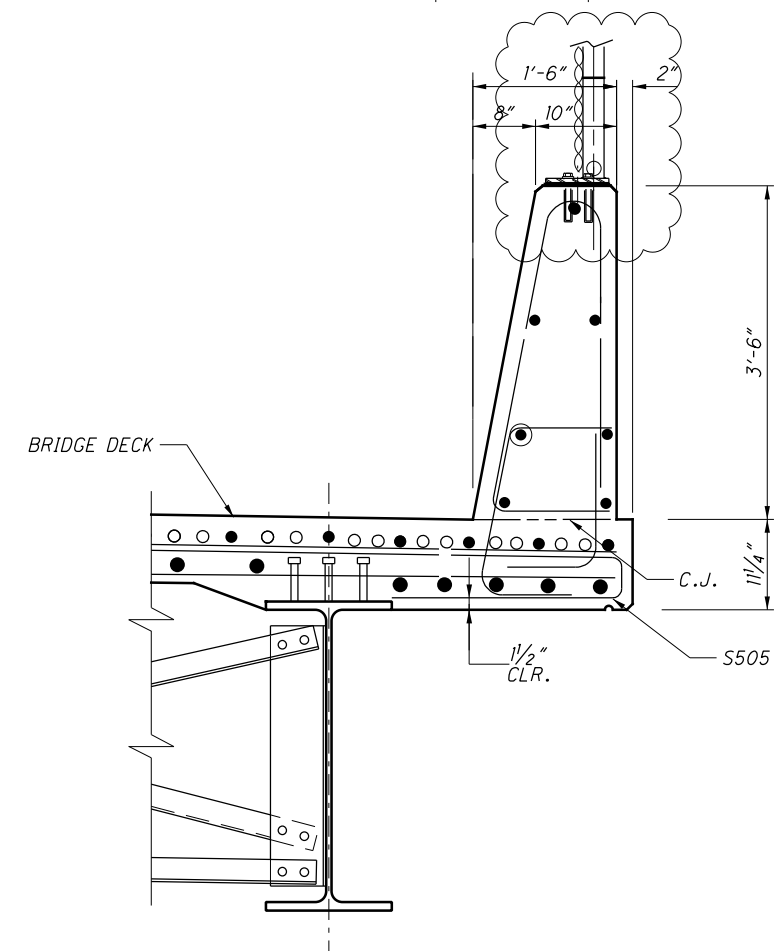
REQ. MIN. LAP LENGTH'S	BAR SIZE	MIN. LAP
	#4	2'-7"
	#5	3'-7"
	#6	4'-3"

REV. BY	DATE	DESCRIPTION
VFG	3/25/16	ADDITION OF VPF FENCE

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TRANSVERSE SECTION



DETAIL
A
18

LEGEND:

* S505 BUNDELED WITH S501 OR SER. S502 IN TOP OF SLAB

NOTES:

1. FOR GENERAL NOTES, SEE SHEET [2/28].
2. FOR REINFORCING STEEL LIST, SEE SHEET [28/28].
3. FOR CROSSFRAME DETAILS, SEE ODOT STANDARD DRAWING GSD-1-96 AND SHEET [12/28].
4. FOR SCREED, TOP OF HAUNCH AND FINAL DECK ELEVATIONS, SEE SHEET [21/28] AND [22/28].
5. FOR END DIAPHRAGM DETAILS, SEE SHEETS [19/28] AND [20/28].
6. DECK SLAB CONCRETE QUANTITY: THE ESTIMATED QUANTITY OF DECK SLAB CONCRETE IS BASED ON THE CONSTANT DECK SLAB THICKNESS, AS SHOWN, PLUS THE QUANTITY OF CONCRETE THAT FORMS EACH BEAM/GIRDER HAUNCH. THE ESTIMATE ASSUMES A CONSTANT HAUNCH THICKNESS OF 3 1/16 INCHES AND A CONSTANT HAUNCH WIDTH OUTSIDE THE EDGE OF EACH BEAM/GIRDER FLANGE OF 9 INCHES. DEVIATE FROM THIS HAUNCH THICKNESS AS NECESSARY TO PLACE THE DECK SURFACE AT THE FINISHED GRADE. THE ALLOWABLE TOLERANCE FOR THE HAUNCH WIDTH OUTSIDE THE EDGE OF EACH BEAM/GIRDER FLANGE IS ±3 INCHES. THE HAUNCH THICKNESS WAS MEASURED AT THE CENTERLINE OF THE BEAM/GIRDER, FROM THE SURFACE OF THE DECK TO THE BOTTOM OF THE TOP FLANGE MINUS THE DECK SLAB THICKNESS. THE AREA OF ALL EMBEDDED STEEL PLATES HAS BEEN DEDUCTED FROM THE HAUNCH QUANTITY IN ACCORDANCE WITH CMS 511.24.

REV. BY	DATE	DESCRIPTION
VFG	3/25/16	ADDITION OF VPF FENCE

DESIGN AGENCY: AKRON CLEVELAND COLUMBUS
 584 WHITE POND DRIVE
 AKRON, OHIO 44316-1000
URS

DATE: 7/14
 REVIEWED: BKL
 STRUCTURE FILE NUMBER: 7703163

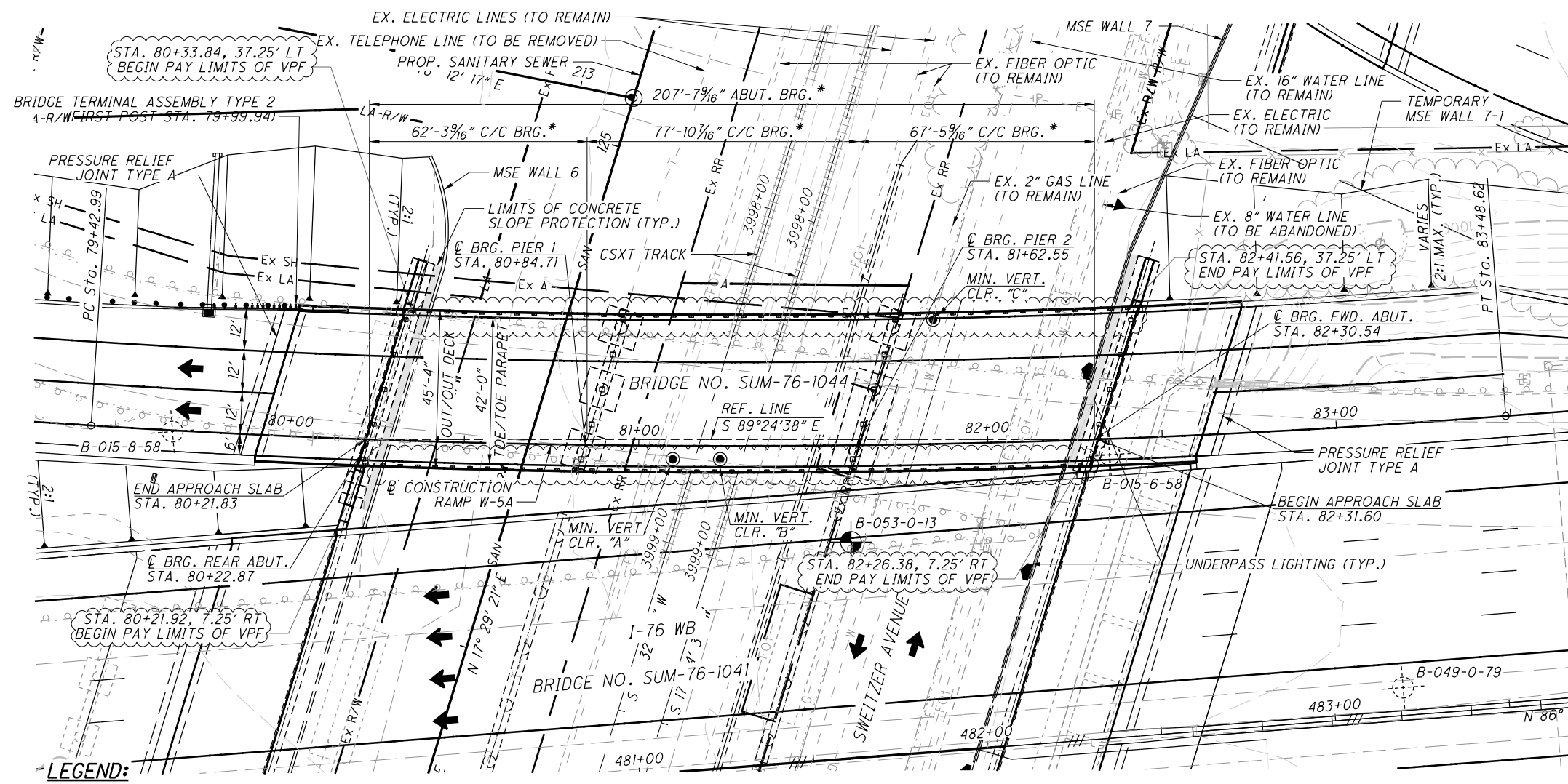
DESIGNED: SAM
 CHECKED: JTH

TRANSVERSE SECTION
 BRIDGE NO. SUM-76-1043
 I-76 RAMP W-6 OVER SWEITZER AVE. AND CSXT RR

SUM-76-10.00
 PID No. 77269

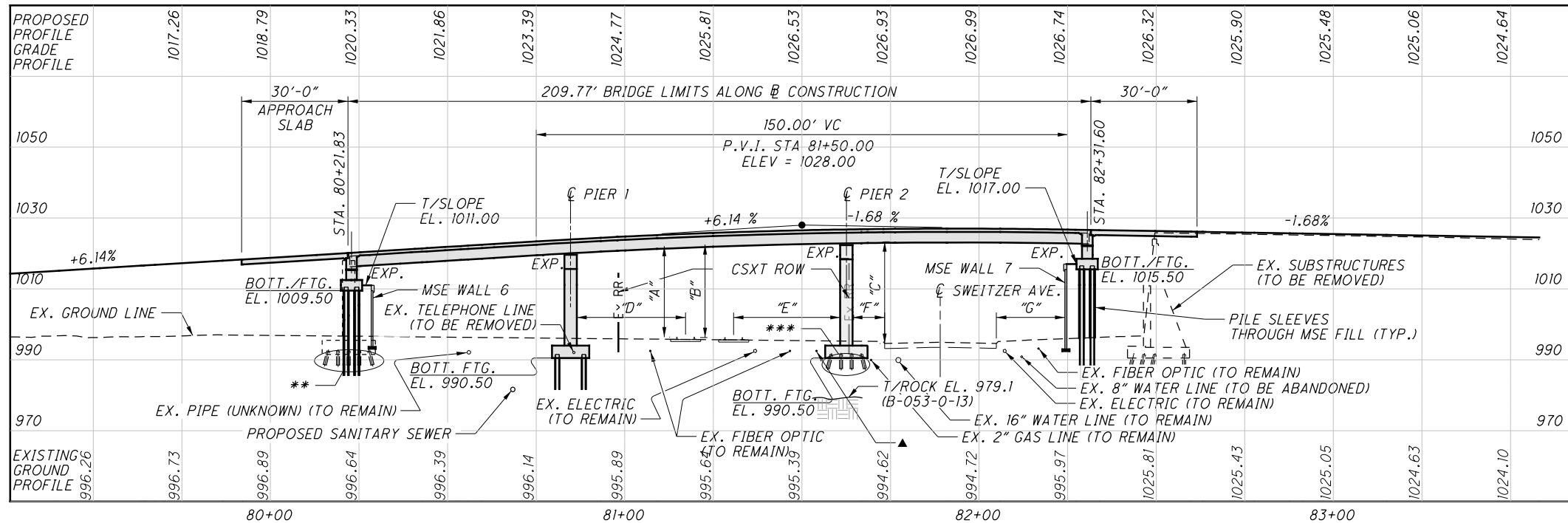
18 / 28
 1379
 1822

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- LEGEND:**
- * - MEASURED ALONG REFERENCE LINE
 - ** - EXISTING PIER 2-W5 H-PILE FOUNDATION (TO BE REMOVED AS SHOWN ON SHEET [7/32])
 - *** - EXISTING PIER 3-W5 H-PILE FOUNDATION (TO REMAIN)
 - ▲ - EXISTING FIBER OPTIC (TO BE TEMPORARILY RELOCATED)

PLAN



PROFILE

(ALONG CONSTRUCTION RAMP W-5A)

RAMP W-5A CURVE DATA:

P.I. STA. 81+46.14
 $\Delta = 8^\circ 06' 46''$ (LT)
 $D_c = 2^\circ 00' 00''$
 $R = 2,864.79'$
 $L = 203.16'$
 $T = 405.64'$
 $E = 7.19'$
 $C = 405.30'$
 $C.B. = S 89^\circ 47' 33'' E$



EXISTING VERTICAL CLEARANCE
 23'-4"±

VERTICAL CLEARANCE		
	PROP.	MIN.
A	23'-6 7/8"	23'-0"
B	24'-7 3/4"	23'-0"
C	27'-0 1/4"	14'-6"

HORIZONTAL CLEARANCE		
	PROP.	MIN.
D	29'-4"	25'-0"
E	28'-6"	25'-0"
F	8'-6"	8'-0"
G	18'-2"	8'-0"

LEGEND:

- PT. OF MINIMUM VERTICAL CLEARANCE
- PROJECT BORING LOCATION
- HISTORIC BORING LOCATION

NOTES:

EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.
 FOR BENCHMARK INFORMATION, SEE ROADWAY PLAN SHEET 10/1822
 DESIGN TRAFFIC:
 2017 ADT = 3,350 2017 ADTT = 230
 2037 ADT = 3,350 2037 ADTT = 230

FOUNDATION DATA:

ALL PROPOSED PILE SHALL BE HP 10x42 END BEARING PILES FOUNDED IN ROCK WITH AN ESTIMATED LENGTH OF 35 FEET FOR THE REAR ABUTMENT, 15 FEET FOR PIER 1 AND PIER 2, AND 45 FEET FOR THE FORWARD ABUTMENT.

EXISTING STRUCTURE

EXISTING STRUCTURE IS A PORTION OF I-76 MAINLINE BRIDGE. SEE SUM-76-1041 PLANS FOR MORE INFORMATION.
 TYPE: CONTINUOUS WELDED STEEL GIRDERS WITH REINFORCED CONCRETE DECK ON REINFORCED CONCRETE PIERS AND ABUTMENTS.
 SPANS: 100'-0"±, 127'-3 3/16"±, 135'-6"±, 84'-6 5/8"± C/C BRGS.
 ROADWAY: 35'-8"± F/F SAFETY CURB
 LOADING: CF 2000
 SKEW: VARIES
 APPROACH SLABS: 25'-0"± LONG (AS-1-54)
 ALIGNMENT: TANGENT
 CROWN: VARIES
 STRUCTURAL FILE NUMBER: 7703279
 DATE BUILT: 1961
 DISPOSITION: COMPLETE BRIDGE REPLACEMENT WITH EXISTING STRUCTURE TO BE REMOVED

PROPOSED STRUCTURE

TYPE: CONTINUOUS ROLLED STEEL BEAM, A709 GRADE 50W, WITH COMPOSITE REINFORCED CONCRETE DECK ON REINFORCED CONCRETE CAP AND COLUMN PIERS AND SEMI-INTEGRAL MSE ABUTMENTS ON PILE FOUNDATIONS.
 SPANS: 62'-3 3/16", 77'-10 1/16", 67'-5 5/16" C/C BEARINGS ALONG REFERENCE CHORD
 ROADWAY: 42'-0" TOE/TOE PARAPET
 LOADING: HL-93 AND 60 PSF FUTURE WEARING SURFACE
 SKEW: 16°53'59" (LF) TO REFERENCE LINE
 WEARING SURFACE: 1" MONOLITHIC CONCRETE
 APPROACH SLABS: 30'-0" LONG (AS-1-81), AS PER PLAN
 ALIGNMENT: CURVED 2°00'00" LEFT
 CROWN: 0.016 FT/FT
 COORDINATES: LATITUDE N 41°03'46"
 LONGITUDE W 81°31'29"

REV. BY	DATE	DESCRIPTION
VFG	3/25/16	ADDITION OF VPF FENCE

DESIGN AGENCY: ARKON CLEVELAND COLUMBUS
 584 WHITE POND DRIVE
 CLEVELAND, OHIO 44115-1000
URS

DATE: 7/14
 REVIEWED: BKL
 DRAWN: BTA
 CHECKED: DEB

STRUCTURE FILE NUMBER: 7703279

SUMMIT COUNTY
 STA. 80+21.83
 STA. 82+31.60

SITE PLAN
 BRIDGE NO. SUM-76-1044
 I-76 RAMP W-5A OVER SWITZER AVE. AND CSXT RR

SUM-76-10.00
 PID No. 77269

1 / 32

1390
 1822

SFN: 7703287

QUANTITIES CALC. BY	DEB
CHECKED BY	GHM

ITEM ODOT	EXT.	PARTICIPATION	TOTAL	UNIT	DESCRIPTION	ABUTMENTS		PIERS	SUPER.	GENERAL	REF. SHEET
		02/IMS/BR				REAR	FWD.				
202	11203	LS	LS		PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN					LS	3/32, 6/32 & 7/32
202	22900	139	139	SY	APPROACH SLAB REMOVED					139	
503	11100	LS	LS		COFFERDAMS AND EXCAVATION BRACING					LS	
503	21100	208	208	CY	UNCLASSIFIED EXCAVATION			208			
505	11100	LS	LS		PILE DRIVING EQUIPMENT MOBILIZATION					LS	
507	00100	2,190	2,190	FT	STEEL PILES HPI0X42, FURNISHED	890	900	400			
507	00150	1,890	1,890	FT	STEEL PILES HPI0X42, DRIVEN	780	810	300			
507	92201	468	468	FT	PREBORED HOLES, AS PER PLAN		468				3/32
507	93300	42	42	EACH	STEEL POINTS OR SHOES	22		20			
509	10000	156,465	156,465	LB	EPOXY COATED REINFORCING STEEL	5105	4572	38261	108527		
511	21522	326	326	CY	CLASS QC2 CONCRETE WITH QC/OA, SUPERSTRUCTURE				326		
511	33500	2	2	EACH	SEMI-INTEGRAL DIAPHRAGM GUIDE	1	1				
511	34450	67	67	CY	CLASS QC2 CONCRETE WITH QC/OA, BRIDGE DECK (PARAPET)				67		
511	41012	101	101	CY	CLASS QC1 CONCRETE WITH QC/OA, PIER ABOVE FOOTINGS			101			
511	43512	152	152	CY	CLASS QC1 CONCRETE WITH QC/OA, ABUTMENT INCLUDING FOOTING	83	69				
511	46512	93	93	CY	CLASS QC1 CONCRETE WITH QC/OA, FOOTING			93			
512	10101	1,016	1,016	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN	94	79	293	443	107	4/32
513	10260	228,200	228,200	LB	STRUCTURAL STEEL MEMBERS, LEVEL 3				228200		
513	20000	3,960	3,960	EACH	WELDED STUD SHEAR CONNECTORS				3960		
514	00060	1,900	1,900	SF	FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT				1900		
514	00066	1,900	1,900	SF	FIELD PAINTING STRUCTURAL STEEL, FINISH COAT				1900		
514	10000	3	3	EACH	FINAL INSPECTION REPAIR				3		
516	13600	18	18	SF	1" PREFORMED EXPANSION JOINT FILLER				18		
516	13900	200	200	SF	2" PREFORMED EXPANSION JOINT FILLER				200		
516	14020	115	115	FT	SEMI-INTEGRAL ABUTMENT EXPANSION JOINT SEAL	56	59				
516	44101	10	10	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (1'-2" x 12" x 2.95" WITH 1'-3" x 1'-2" x 1.50" LOAD PLATE)	5	5				18/32
516	44201	5	5	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (1'-5" x 1'-3" x 3.32" WITH 1'-6" x 1'-5" x 1.74" LOAD PLATE)			5			18/32
516	44201	5	5	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (1'-5" x 1'-3" x 3.32" WITH 1'-6" x 1'-5" x 2.11" LOAD PLATE)			5			18/32
518	21200	67	67	CY	POROUS BACKFILL WITH FILTER FABRIC	36	31				
518	40000	136	136	FT	6" PERFORATED CORRUGATED PLASTIC PIPE	73	63				
518	40010	40	40	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS	20	20				
526	30001	303	303	SY	REINFORCED CONCRETE APPROACH SLABS (I=17"), AS PER PLAN					303	27/32
607	39900	410	410	FT	VANDAL PROTECTION FENCE, 6' STRAIGHT, COATED FABRIC				410		

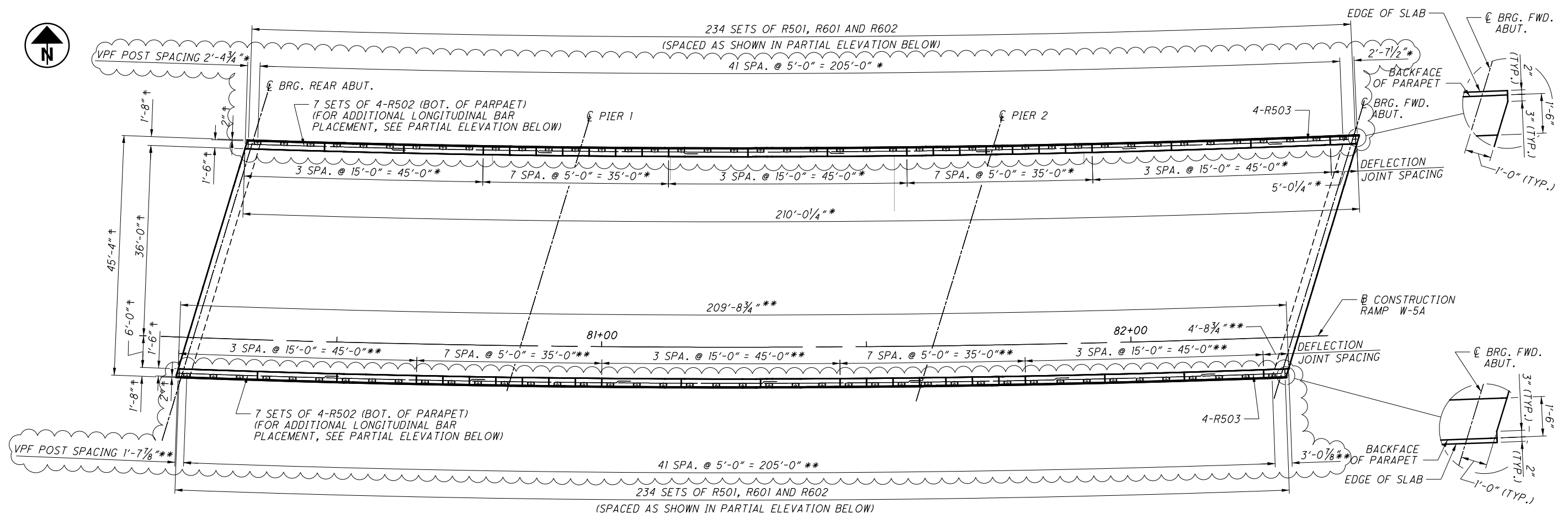
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VFG	3/25/16	ADDITION OF VPF FENCE
REV. BY	DATE	DESCRIPTION
DATE COMPLETED		

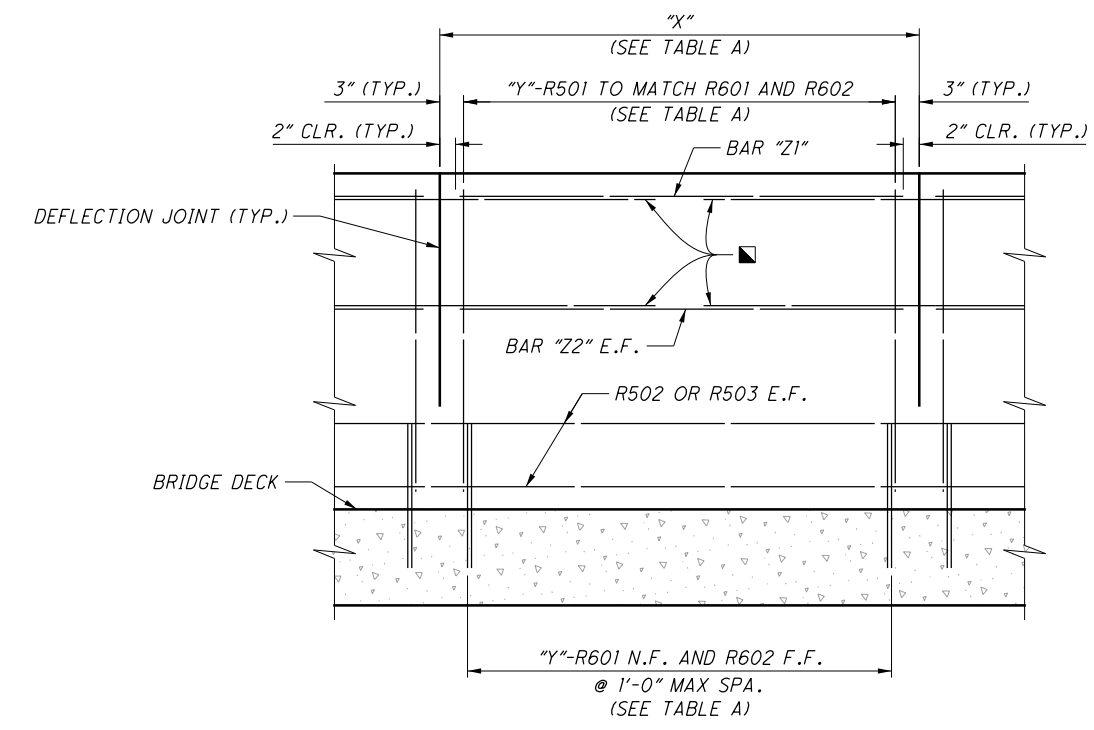
NOTES:
1. FOR MSE WALL 6 AND 7 ESTIMATED QUANTITIES, SEE SHEET 1619/1822 AND 1620/1822.

DESIGN AGENCY: AKRON CLEVELAND COLUMBUS
 564 WHITE POND DRIVE
 AKRON, OHIO 44316-1000
URS
 DATE: 7/14
 REVIEWED: BKL
 STRUCTURE FILE NUMBER: 7703287
 DRAWN: BTA
 CHECKED: DEB
ESTIMATED QUANTITIES
 BRIDGE NO. SUM-76-1044
 I-76 RAMP W-5A OVER SWEITZER AVE. AND CSXT RR
SUM-76-10.00
 PID No. 77269
 5 / 32
 1394
 1822

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PARAPET PLAN



PARTIAL PARAPET ELEVATION
(BRIDGE DECK REINFORCING NOT SHOWN FOR CLARITY)

TABLE A				
No. OF PANELS	LENGTH "X"	No. OF BARS IN EA. PANEL "Y"	BAR "Z1"	BAR "Z2"
18	15'-0"	16	R603	R504
28	5'-0"	6	R604	R505
1	5'-0 1/4"	6	R604	R505
1	4'-8 3/4"	6	R606	R507

- LEGEND:**
- * - MEASURED RADIALLY ALONG TOE OF LEFT PARAPET
 - ** - MEASURED RADIALLY ALONG TOE OF RIGHT PARAPET
 - † - MEASURED PERPENDICULAR TO \bar{C} OF CONSTRUCTION
 - : 1/2" DIA. GLASS FIBER REINFORCED POLYMER (GFRP) STIFFENING REINFORCEMENT (SEE SHEET 21/32 FOR ADDITIONAL NOTES AND DETAILS)

REQUIRED MIN. LAP LENGTHS	
NO. 5 BARS	3'-7"

- NOTES:**
1. FOR DEFLECTION JOINT AND ADDITIONAL PARAPET DETAILS, SEE SHEET 21/32.
 2. FOR SLAB PLAN, SEE SHEET 19/32.
 3. FOR TRANSVERSE SECTION, SEE SHEET 22/32.
 4. FOR REINFORCING STEEL LIST, SEE SHEET 32/32.

REV. BY	DATE	DESCRIPTION
VFG	3/25/16	ADDITION OF VPF FENCE

DESIGN AGENCY: AKRON CLEVELAND COLUMBUS
584 WHITE POND DRIVE
AKRON, OHIO 44316-1000

URS

DATE: 7/14
REVIEWED: BKL
DRAWN: BTA
DESIGNED: BTA
CHECKED: SAM

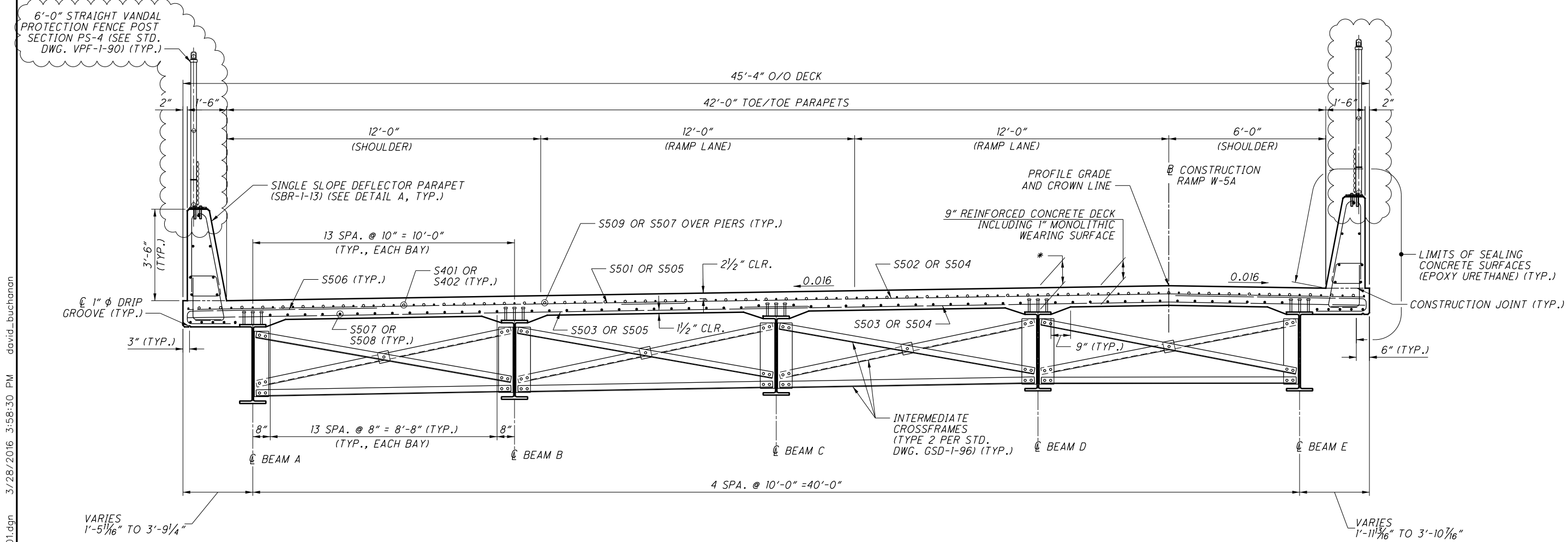
STRUCTURE FILE NUMBER: 7703287

PARAPET PLAN
BRIDGE NO. SUM-76-1044
I-76 RAMP W-5A OVER SWEITZER AVE. AND CSXT RR

SUM-76-10.00
PID No. 77269

20/32
1409
1822

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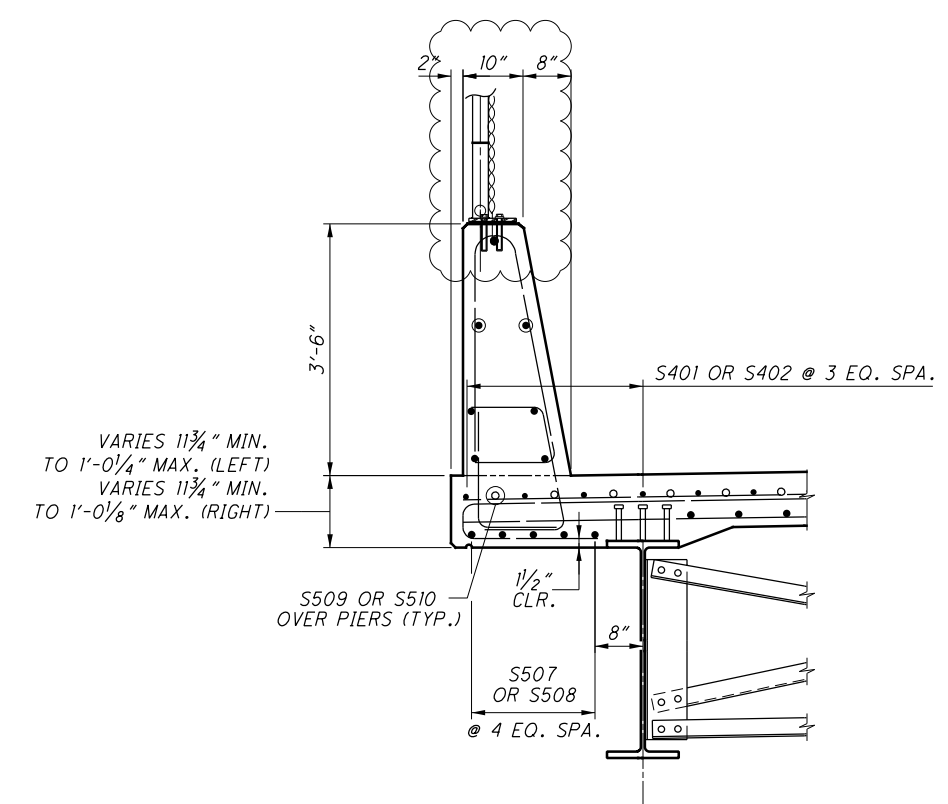
TRANSVERSE SECTION

LEGEND:

- * - DIMENSION FROM TOP OF SLAB TO TOP OF BEAM (TYP.)
- W36x150 = 11 3/8"
- W36x232 = 11"

NOTES:

1. DECK SLAB CONCRETE QUANTITY: THE ESTIMATED QUANTITY OF DECK SLAB CONCRETE IS BASED ON THE CONSTANT DECK SLAB THICKNESS, AS SHOWN, PLUS THE QUANTITY OF CONCRETE THAT FORMS EACH BEAM HAUNCH. THE ESTIMATE ASSUMES A CONSTANT AVERAGE HAUNCH THICKNESS OF 3 3/16 INCHES AND A CONSTANT HAUNCH WIDTH OUTSIDE THE EDGE OF EACH BEAM FLANGE OF 9 INCHES. DEVIATE FROM THIS HAUNCH THICKNESS AS NECESSARY TO PLACE THE DECK SURFACE AT THE FINISHED GRADE. THE ALLOWABLE TOLERANCE FOR THE HAUNCH WIDTH OUTSIDE THE EDGE OF BEAM FLANGE IS ±3 INCHES.
2. THE HAUNCH THICKNESS WAS MEASURED AT THE CENTERLINE OF THE BEAM, FROM THE SURFACE OF THE DECK TO THE BOTTOM OF THE TOP FLANGE MINUS THE DECK SLAB THICKNESS. THE AREA OF ALL EMBEDDED STEEL PLATES HAS BEEN DEDUCTED FROM THE HAUNCH QUANTITY IN ACCORDANCE WITH 511.24.
3. FOR GENERAL NOTES, SEE SHEETS [3/32] AND [4/32].
4. FOR FINAL DECK ELEVATIONS, SCREED AND TOP OF HAUNCH, SEE SHEETS [25/32] AND [26/32].
5. FOR END DIAPHRAGM DETAILS, SEE SHEETS [23/32] AND [24/32].
6. FOR REINFORCING STEEL LIST, SEE SHEET [32/32].
7. FOR DECK OVERHANG TABLE, SEE SHEET [19/32].



DETAIL A

REV. BY	DATE	DESCRIPTION
VFG	3/25/16	ADDITION OF VPF FENCE

DESIGN AGENCY: AKRON CLEVELAND COLUMBUS
 URS
 584 WHITE POND DRIVE
 AKRON, OHIO 44316-1000
 (330) 836-9111

DATE: 7/14
 REVIEWED: BKL
 STRUCTURE FILE NUMBER: 7703287

DRAWN: BTA
 CHECKED: DEB

DESIGNED: BTA
 CHECKED: DEB

TRANSVERSE SECTION
 BRIDGE NO. SUM-76-1044
 1-76 RAMP W-5A OVER SWEITZER AVE. AND CSXT RR

SUM-76-10.00
 PID No. 77269

22/32
 1411
 1822

SFN: 7703597

QUANTITIES CALC. BY	DEB
CHECKED BY	ZRD

ITEM ODOT	EXT.	PARTICIPATION	TOTAL	UNIT	DESCRIPTION	ABUTMENTS		PIERS	SUPER.	GENERAL	REF. SHEET
		02/IMS/BR				REAR	FWD.				
503	11100	LS	LS		COFFERDAMS AND EXCAVATION BRACING					LS	
503	21100	362	362	CY	UNCLASSIFIED EXCAVATION			362			
505	11100	LS	LS		PILE DRIVING EQUIPMENT MOBILIZATION					LS	
507	00100	2,400	2,400	FT	STEEL PILES HPI0X42, FURNISHED	1300	1100				
507	00150	2,160	2,160	FT	STEEL PILES HPI0X42, DRIVEN	1170	990				
507	00300	800	800	FT	STEEL PILES HPI4X73, FURNISHED			800			
507	00350	640	640	FT	STEEL PILES HPI4X73, DRIVEN			640			
507	92201	702	702	FT	PREBORED HOLES, AS PER PLAN	702					4/43
507	93300	54	54	EACH	STEEL POINTS OR SHOES		22	32			
509	10000	293,273	293,273	LB	EPOXY COATED REINFORCING STEEL	11750	10411	68396	202716		
511	21522	582	582	CY	CLASS QC2 CONCRETE WITH QC/OA, SUPERSTRUCTURE				582		
511	34450	96	96	CY	CLASS QC2 CONCRETE WITH QC/OA, BRIDGE DECK (PARAPET)				96		
511	41012	157	157	CY	CLASS QC1 CONCRETE WITH QC/OA, PIER ABOVE FOOTINGS			157			
511	43512	312	312	CY	CLASS QC1 CONCRETE WITH QC/OA, ABUTMENT INCLUDING FOOTING	166	146				
511	46512	172	172	CY	CLASS QC1 CONCRETE WITH QC/OA, FOOTING			172			
512	10101	1,533	1,533	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN	180	153	410	670	120	4/43
513	10300	716,100	716,100	LB	STRUCTURAL STEEL MEMBERS, LEVEL 5				716100		
513	20000	8,028	8,028	EACH	WELDED STUD SHEAR CONNECTORS				8028		
514	00060	6,690	6,690	SF	FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT				6690		
514	00066	6,690	6,690	SF	FIELD PAINTING STRUCTURAL STEEL, FINISH COAT				6690		
514	10000	6	6	EACH	FINAL INSPECTION REPAIR				6		
516	11210	112.32	112.32	FT	STRUCTURAL EXPANSION JOINT INCLUDING ELASTOMERIC STRIP SEAL	54.75	57.57				
516	13600	18	18	SF	1" PREFORMED EXPANSION JOINT FILLER	9	9				
516	13900	243	243	SF	2" PREFORMED EXPANSION JOINT FILLER					243	
516	44101	5	5	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (1'-3" x 1'-3" x 2.55" WITH 1'-4" x 2'-1" x 1.69" LOAD PLATE)			5			24/43
516	44301	5	5	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (1'-10" x 1'-10" x 4.27" WITH 1'-11" x 2'-5" x 1.61" LOAD PLATE)			5			24/43
516	44301	5	5	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (1'-3" x 1'-3" x 4.83" WITH 1'-4" x 2'-5" x 1.72" LOAD PLATE)	5					24/43
516	44401	5	5	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (1'-10 1/2" x 1'-10 1/2" x 5.42" WITH 1'-11 1/2" x 2'-3" x 1.65" LOAD PLATE)			5			24/43
518	21200	117	117	CY	POROUS BACKFILL WITH FILTER FABRIC	61	56				
518	40000	184	184	FT	6" PERFORATED CORRUGATED PLASTIC PIPE	100	84				
518	40010	40	40	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS	20	20				
526	30001	372	372	SY	REINFORCED CONCRETE APPROACH SLABS (F=17"), AS PER PLAN					372	37/43
607	39900	626	626	FT	VANDAL PROTECTION FENCE, 6' STRAIGHT, COATED FABRIC				626		

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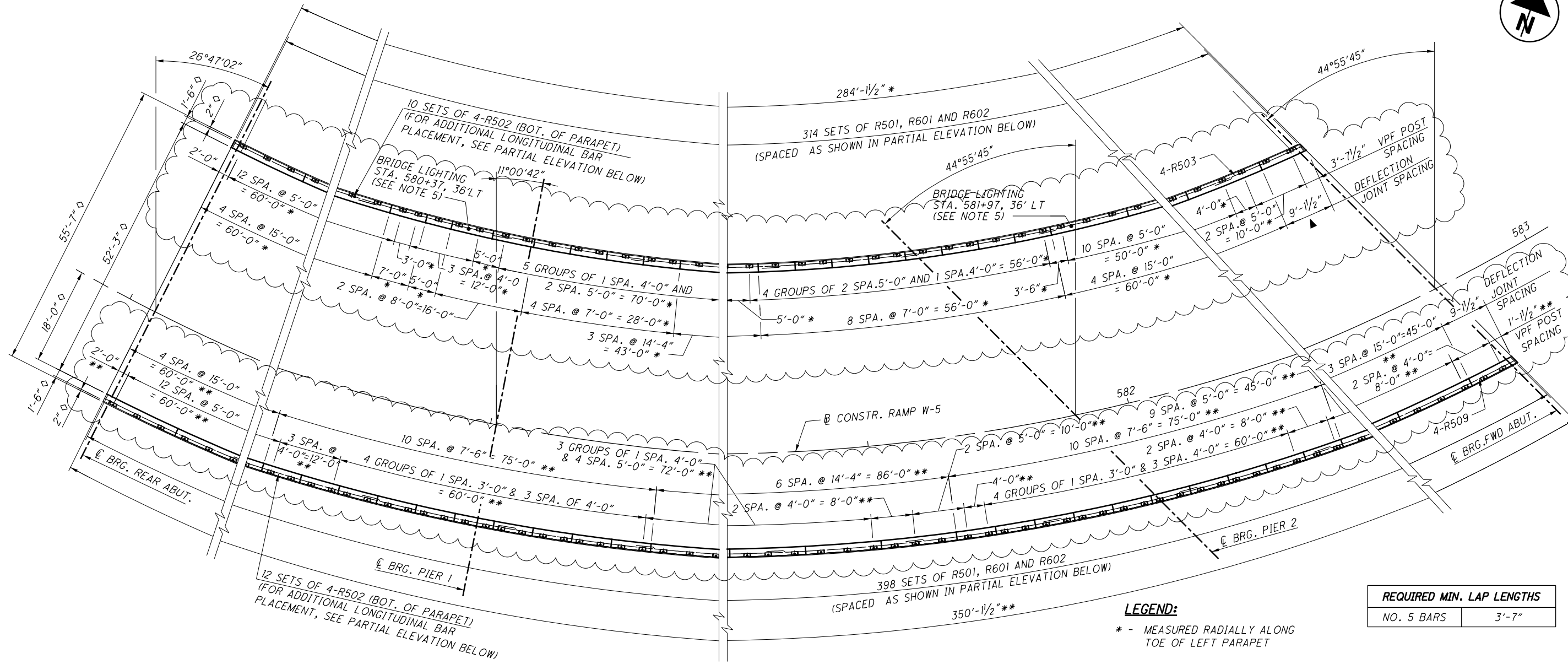
DESIGN AGENCY: AKRON CLEVELAND COLUMBUS
 584 WHITE POND DRIVE
 AKRON, OHIO 44316-1000
URS
 DATE: 7/14
 REVIEWED: JTH
 STRUCTURE FILE NUMBER: 7703597
 DRAWN: CMA
 CHECKED: REVISED
 DESIGNED: MRW
 CHECKED: SAM
ESTIMATED QUANTITIES
 BRIDGE NO. SUM-76-1051
 I-76 RAMP W-5 OVER SWEITZER AVE. AND CSXT RR
SUM-76-10.00
 PID No. 77269
 5 / 43
 1426
 1822

FOR MSE WALL 7 AND 8 QUANTITIES SEE SHEET 1619/1822 AND 1620/1822.

DEB	3/25/16	ADDITION OF VPF FENCE
REV. BY	DATE	DESCRIPTION
DATE COMPLETED		



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PARAPET PLAN

REQUIRED MIN. LAP LENGTHS	
NO. 5 BARS	3'-7"

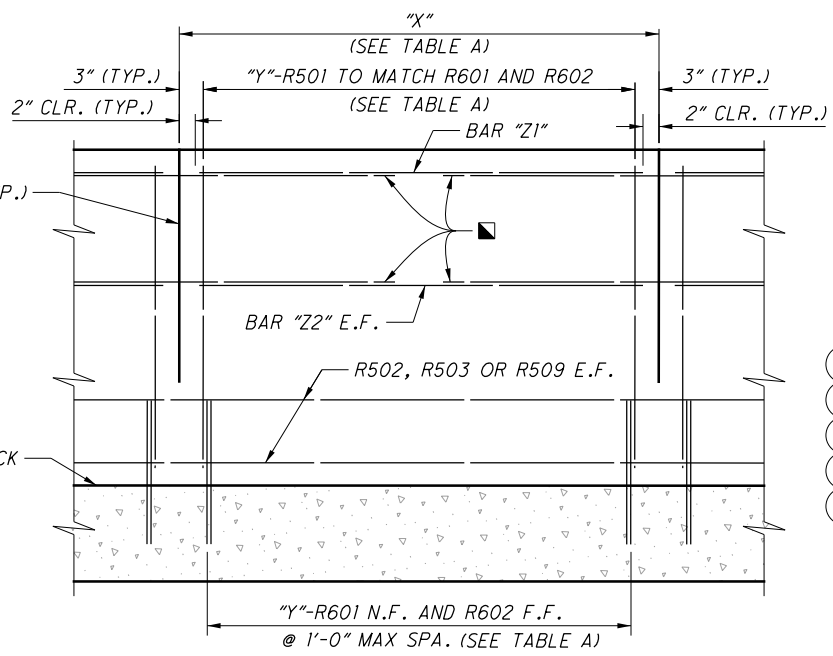
LEGEND:

- * - MEASURED RADIALLY ALONG TOE OF LEFT PARAPET
- ** - MEASURED RADIALLY ALONG TOE OF RIGHT PARAPET
- ◇ - MEASURED PERPENDICULAR TO \hat{C} OF CONSTRUCTION
- ▣: 1/2" DIA. GLASS FIBER REINFORCED POLYMER (GFRP) STIFFENING REINFORCEMENT (SEE SHEET 31/43 FOR ADDITIONAL NOTES AND DETAILS)
- ▲ SHORTER LENGTH (8'-6 7/8"), BASED ON OUTSIDE LENGTH OF PARAPET, USED TO SPECIFY REINFORCING LENGTH.

NOTES:

- FOR DEFLECTION JOINT AND ADDITIONAL PARAPET DETAILS, SEE SHEET 31/43.
- FOR SLAB PLAN, SEE SHEETS 26/43 THRU 29/43.
- FOR TRANSVERSE SECTION, SEE SHEET 32/43.
- FOR REINFORCING STEEL LIST, SEE SHEET 43/43.
- FOR ADDITIONAL LIGHTING PILASTER INFORMATION, SEE SHEET 1194 1822 AND ODOT HL STANDARD DRAWINGS. HL STANDARD DRAWINGS SHALL BE MODIFIED AS NECESSARY TO REFLECT SBR-1-13. ANCHOR BOLTS SHALL EXTEND 6" INTO SLAB.

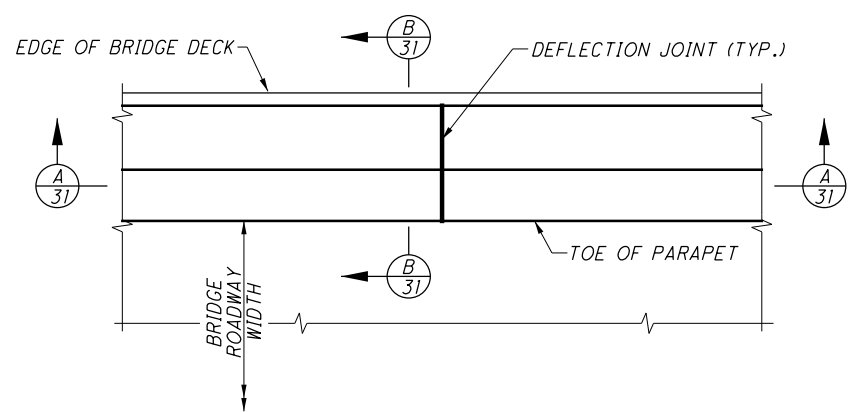
TABLE A				
No. OF PANELS	LENGTH "X"	No. OF BARS IN EA. PANEL "Y"	BAR "Z1"	BAR "Z2"
15	15'-0"	16	R603	R504
9	14'-4"	16	R604	R505
20	7'-6"	9	R605	R506
13	7'-0"	8	R606	R507
1	8'-6 7/8"▲	10	R607	R508
1	9'-1 1/2"	10	R608	R510
2	8'-0"	9	R609	R511
1	5'-0"	6	R610	R512



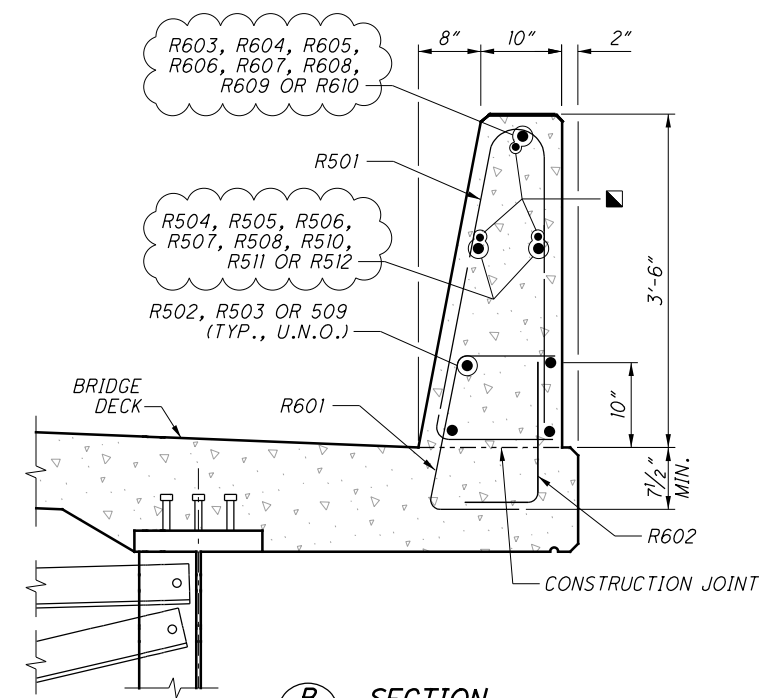
PARTIAL PARAPET ELEVATION
(BRIDGE DECK REINFORCING NOT SHOWN FOR CLARITY)

REV. BY	DATE	DESCRIPTION
DEB	3/25/16	ADDITION OF VPF FENCE

I:\Projects\Main_Broadway\STRUCTURES\SUM-76-10.TBD (WB_Ramp to Main)\Sheets\076_10TBD\BDDP006.dgn 3/28/2016 3:58:33 PM david_buchanan



PLAN VIEW
DEFLECTION JOINT DETAIL



B
31 SECTION
(BRIDGE DECK REINFORCING NOT SHOWN FOR CLARITY)

DEFLECTION JOINTS:
SAWCUT 1/4 INCH DEEP DEFLECTION JOINTS ALONG THE PERIMETER OF THE PARAPET WHEN THE CONCRETE IS STILL GREEN OR AS SOON AS THE SAW CAN BE OPERATED WITHOUT DAMAGING THE CONCRETE.

AFTER THE CONCRETE CURING PERIOD SPECIFIED IN CMS 511.14 HAS BEEN REACHED, PERFORM 4" SAWCUT THROUGH THE GFRP AS SHOWN IN DETAIL C ON THIS SHEET.

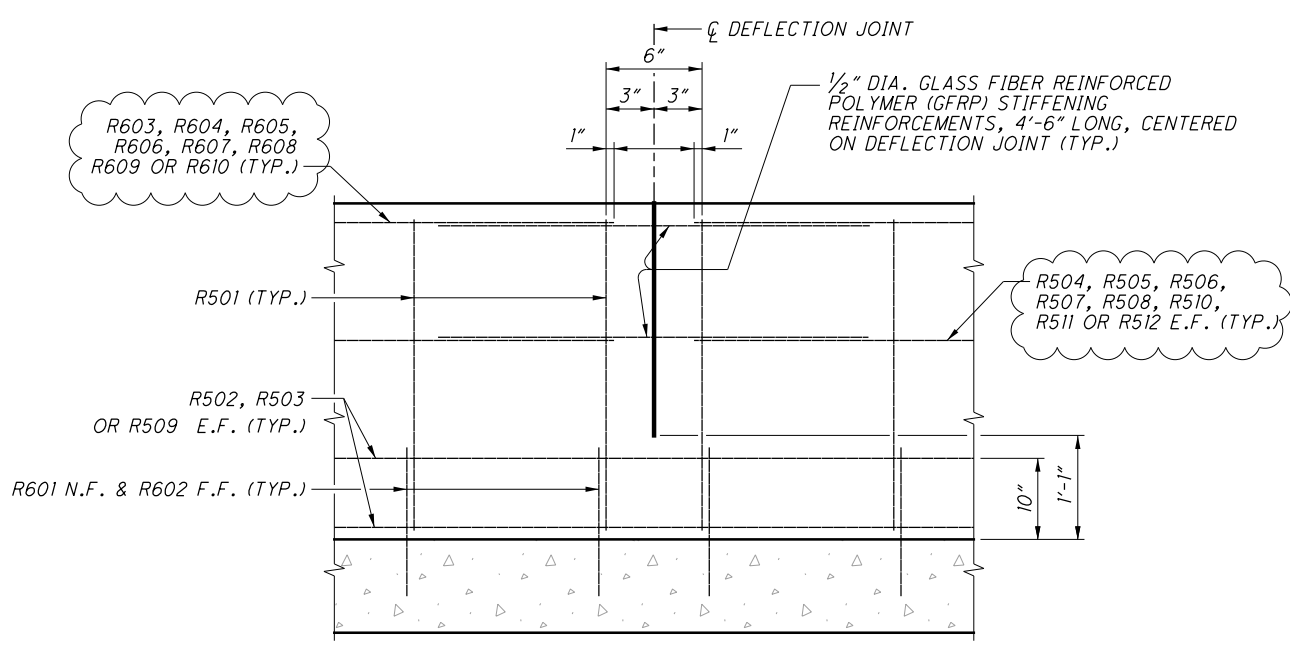
THE CONTRACTOR HAS AN OPTION TO PERFORM FULL DEPTH SAWCUT. HOWEVER, THE SAWCUT SHALL NOT BE LESS THAN 1'-0 1/2" FROM THE TOP OF THE CONCRETE DECK SLAB.

USE AN EDGE GUIDE, FENCE, OR JIG TO ENSURE THAT THE CUT JOINT IS STRAIGHT, TRUE, AND ALIGNED ON ALL FACES OF THE PARAPET. THE JOINT WIDTH SHALL BE THE WIDTH OF THE SAW BLADE, A NOMINAL WIDTH OF 1/4 INCH.

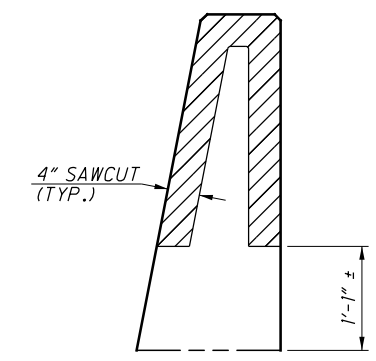
SEAL THE PERIMETER OF THE DEFLECTION JOINTS TO A MINIMUM DEPTH OF ONE INCH WITH A POLYURETHANE OR POLYMERIC MATERIAL CONFORMING TO ASTM C920, TYPE S. LEAVE THE BOTTOM 1/2 INCH OF BOTH THE INSIDE AND OUTSIDE FACES OF THE PARAPET UNSEALED TO ALLOW ANY WATER WHICH MAY ENTER THE JOINT TO ESCAPE.

AT EACH DEFLECTION JOINT LOCATION, USE GLASS FIBER REINFORCED POLYMER (GFRP) REINFORCEMENT TO MAINTAIN THE RIGIDITY OF THE CAGE ACROSS THE PROPOSED JOINTS AT THOSE LONGITUDINAL BARS AS SHOWN IN SECTIONS A-A & B-B ON THIS SHEET. OTHER NON-FERROUS REINFORCEMENT MAY BE PROPOSED FOR USE, SUBJECT TO APPROVAL BY THE ENGINEER.

FOR TRANSITION SECTION, PLACE A DEFLECTION JOINT AT THE BEGINNING OF THE 14'-0" TRANSITION. DEFLECTION JOINTS ARE NOT REQUIRED WITHIN THE 14'-0" TRANSITION SECTION. SEE APPROACH SLAB SHEETS [37/43] AND [38/43].



A
31 SECTION
GFRP REBAR STIFFENING DETAIL AT DEFLECTION JOINTS
(BRIDGE DECK REINFORCING NOT SHOWN FOR CLARITY)



DETAIL C
SECTION THROUGH SAWCUT

LEGEND:
■ : 1/2" DIA. GLASS FIBER REINFORCED POLYMER (GFRP) STIFFENING REINFORCEMENT

- NOTES:**
- FOR PARAPET PLAN AND ELEVATION, SEE SHEET [30/43].
 - FOR SLAB PLAN, SEE SHEET [26/43] THRU [29/43].
 - FOR TRANSVERSE SECTION, SEE SHEET [32/43].
 - FOR REINFORCING STEEL LIST, SEE SHEET [43/43].
 - FOR ADDITIONAL DETAILS NOT SHOWN, REFER TO STANDARD DRAWING SBR-1-13.

REV. BY	DATE	DESCRIPTION
DEB	3/25/16	ADDITION OF VPF FENCE

DESIGN AGENCY: AKRON CLEVELAND COLUMBUS
584 WHITE POND DRIVE
AKRON, OHIO 44316-1100
URS

DATE: 7/14
REVIEWED: JTH
DRAWN: VFG
DESIGNED: MRW
CHECKED: SAM

STRUCTURE FILE NUMBER: 7703597

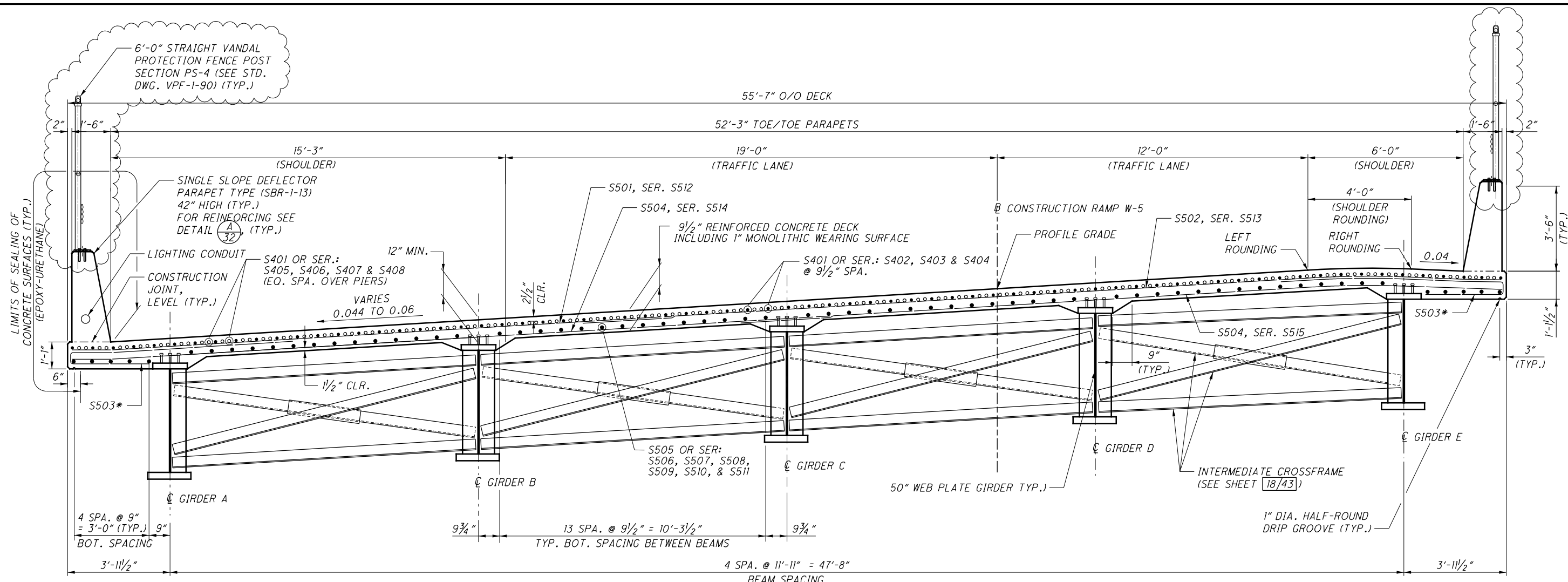
PARAPET DETAILS
BRIDGE NO.: SUM-76-1051
I-76 RAMP W-5 OVER SWEITZER AVE. AND CSXT RR

SUM-76-10.00
PID No. 77269

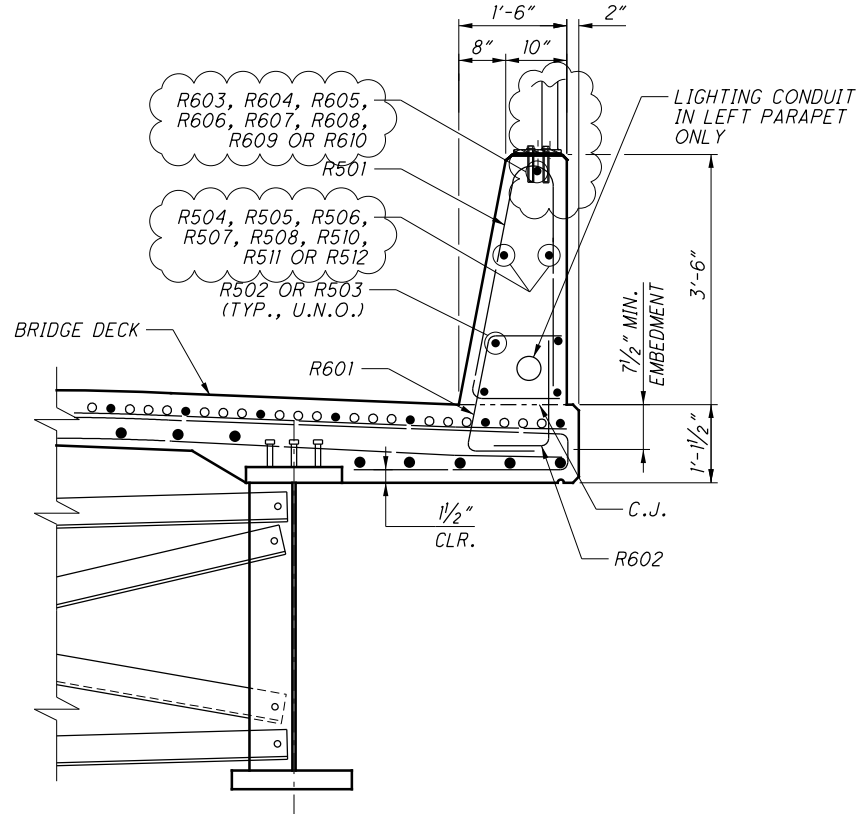
31 / 43

1452
1822

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TRANSVERSE SECTION



DETAIL
A
32

LEGEND:
* S503 BUNDLED WITH S501 OR S502 (TYP.)

NOTES:

- FOR GENERAL NOTES, SEE SHEET 4/43.
- FOR REINFORCING STEEL LIST, SEE SHEET 43/43.
- FOR CROSSFRAME DETAILS, SEE SHEET 18/43.
- FOR FINAL DECK ELEVATIONS, SCREED, AND TOP OF HAUNCH, SEE SHEETS 34/43 THRU 36/43.
- DECK SLAB CONCRETE QUANTITY: THE ESTIMATED QUANTITY OF DECK SLAB CONCRETE IS BASED ON THE CONSTANT DECK SLAB THICKNESS, AS SHOWN, PLUS THE QUANTITY OF CONCRETE THAT FORMS EACH BEAM/GIRDER HAUNCH. THE ESTIMATE ASSUMES A CONSTANT HAUNCH THICKNESS OF 5/8" INCHES AND A CONSTANT HAUNCH WIDTH OUTSIDE THE EDGE OF EACH BEAM/GIRDER FLANGE OF 9 INCHES. DEVIATE FROM THIS HAUNCH THICKNESS AS NECESSARY TO PLACE THE DECK SURFACE AT THE FINISHED GRADE. THE ALLOWABLE TOLERANCE FOR THE HAUNCH WIDTH OUTSIDE THE EDGE OF EACH BEAM/GIRDER FLANGE IS ±3 INCHES. THE HAUNCH THICKNESS WAS MEASURED AT THE CENTERLINE OF THE BEAM/GIRDER, FROM THE SURFACE OF THE DECK TO THE BOTTOM OF THE TOP FLANGE MINUS THE DECK SLAB THICKNESS. THE AREA OF ALL EMBEDDED STEEL PLATES HAS BEEN DEDUCTED FROM THE HAUNCH QUANTITY IN ACCORDANCE WITH CMS 511.24.

REV. BY	DATE	DESCRIPTION
DEB	3/25/16	ADDITION OF VPF FENCE

DESIGN AGENCY: MARION CLEVELAND COLUMBUS
 564 WHITE POND DRIVE
 COLUMBUS, OH 43260-1100
URS

DESIGNED: MRW
 CHECKED: SAM

DRAWN: VFG
 REVISED: SAM

REVIEWED: JTH
 DATE: 7/14

STRUCTURE FILE NUMBER: 7703597

TRANSVERSE SECTION
 BRIDGE NO. SUM-76-1051
 I-76 RAMP W-5 OVER SWEITZER AVE. AND CSXT RR

SUM-76-10.00
 PID No. 77269

32 / 43

1453
 1822

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MARK	NUMBER TOTAL	LENGTH	WEIGHT	TYPE	DIMENSIONS						
					A	B	C	D	E	R	INC
SLAB											
S401	1870	30'-0"	37475	STR							
	1 SER	7'-9"									
S402	OF	TO	330	STR							1'-0"
	25	31'-9"									
	1 SER	5'-3"									
S403	OF	TO	350	STR							1'-0"
	28	32'-2"									
	1 SER	5'-8"									
S404	OF	TO	170	STR							1'-0"
	18	22'-7"									
	2 SER	8'-5"									
S405	OF	TO	1746	STR							0'-3 1/2"
	70	28'-11"									
	2 SER	28'-9"									
S406	OF	TO	489	STR							0'-3 3/4"
	12	32'-3"									
	2 SER	5'-1"									
S407	OF	TO	988	STR							0'-3 1/4"
	58	20'-5"									
S501	789	23'-5"	19271	STR							
S502	805	35'-5"	29737	STR							
S503	1600	11'-11"	19887	2	8'-7"	8"	2'-11"				
S504	1598	29'-5"	49030	STR							
S505	726	30'-0"	22717	STR							
	1 SER	17'-10"									
S506	OF	TO	103	STR							0'-11 1/4"
	5	21'-7"									
	1 SER	23'-6"									
S507	OF	TO	438	STR							1'-0"
	14	36'-6"									
	1 SER	12'-2"									
S508	OF	TO	273	STR							1'-0"
	14	25'-2"									
	1 SER	27'-2"									
S509	OF	TO	492	STR							1'-0"
	14	40'-3"									
	1 SER	15'-10"									
S510	OF	TO	326	STR							1'-0"
	14	28'-10"									
	1 SER	30'-9"									
S511	OF	TO	170	STR							0'-11 1/4"
	5	34'-6"									
	1 SER	5'-6"									
S512	OF	TO	239	STR							1'-2 1/4"
	16	23'-2"									
	1 SER	8'-8"									
S513	OF	TO	547	STR							1'-1 3/4"
	24	35'-0"									
	1 SER	6'-6"									
S514	OF	TO	365	STR							1'-2"
	20	28'-6"									
	1 SER	8'-7"									
S515	OF	TO	406	STR							1'-1 3/4"
	20	30'-4"									
S516	24	15'-1"	378	2	10'-2"	0'-8"	4'-6"				
L505	8	2'-9"	23	2	0'-7"	1'-10"	0'-7"				
L506	8	10'-1"	84	9	0'-8"	4'-0"	2'-4"	4'-0"			
L507	12	7'-5"	93	21	1'-4"	1'-10"	0'-6"	1'-10"			
L508	8	4'-0"	33	STR							
TOTAL			186160								

MARK	NUMBER TOTAL	LENGTH	WEIGHT	TYPE	DIMENSIONS						
					A	B	C	D	E	R	INC
APPROACH SLABS											
ASR501	106	7'-4"	811	23	0'-11"	3'-3"	3'-0"				0'-2 3/4"
ASR502	4	14'-8"	61	STR							
ASR503	4	29'-4"	122	STR							
ASR504	4	15'-8"	65	STR							
ASR505	8	19'-9"	165	STR							
ASR506	16	9'-10"	164	STR							
ASR507	8	5'-8"	47	25	1'-10"	2'-5"	1'-5"	0'-1 1/2"	0'-5"		
ASR508	8	5'-8"	47	STR							
ASR509	2	14'-4"	30	STR							
ASR510	2	15'-2"	32	STR							
ASR511	4	30'-2"	126	STR							
ASR512	24	0'-11"	23	STR							
ASR601	98	3'-2"	466	28	1'-7"	0'-11"	1'-0"				
ASR602	98	2'-5"	356	1	1'-0"	1'-7"					
ASR603	2	14'-8"	44	STR							
ASR604	2	15'-8"	47	STR							
	4 SR	3'-11"					3'-1"				
ASR605	OF	TO	315	1	1'-0"	TO					0'-1"
	12	4'-10"					4'-0"				
ASR606	12	4'-0"	72	1	1'-0"	3'-2"					
ASR607	1	14'-4"	22	STR							
ASR608	1	15'-2"	23	STR							
ASR609	4	0'-11"	6	STR							
■	14	4'-6"		STR							
TOTAL			3044		(FOR INFORMATION ONLY)						

PARAPET											
R501	712	7'-4"	5446	23	11"	3'-3"	3'-0"				2 3/4"
R502	88	30'-0"	2754	STR							
R503	4	19'-0"	79	STR							
R504	30	14'-8"	459	STR							
R505	18	14'-0"	263	STR							
R506	40	7'-2"	299	STR							
R507	26	6'-8"	181	STR							
R508	2	8'-2"	17	STR							
R509	4	3'-3"	135	STR							
R510	2	8'-9"	18	STR							
R511	2	7'-8"	16	STR							
R512	2	4'-8"	10	STR							
R601	712	3'-2"	3387	28	1'-7"	11"	1'-0"				
R602	712	2'-5"	2584	1	1'-0"	1'-7"					
R603	15	14'-8"	330	STR							
R604	9	14'-0"	189	STR							
R605	20	7'-2"	215	STR							
R606	13	6'-8"	130	STR							
R607	1	8'-2"	12	STR							
R608	1	8'-9"	13	STR							
R609	1	7'-8"	12	STR							
R610	1	4'-8"	7	STR							
■	180	4'-6"		STR							
TOTAL			16556								

REV. BY	DATE	DESCRIPTION
DEB	3/25/16	ADDITION OF VPF FENCE
		DATE COMPLETED

NOTES:

THE BAR SIZE NUMBER IS SPECIFIED ON THE PLANS IN THE BAR MARK COLUMN. THE FIRST DIGIT WHERE THREE DIGITS ARE USED, AND THE FIRST TWO DIGITS WHERE FOUR ARE USED INDICATES THE BAR SIZE NUMBER. FOR EXAMPLE, S601:

- S: LOCATION OF THE BAR IN THE STRUCTURE (SUPERSTRUCTURE)
- 6: BAR SIZE DIMENSION NO. 6
- 01: SEQUENCE NUMBER

BAR DIMENSIONS SHOWN ARE OUT TO OUT UNLESS OTHERWISE NOTED. "STD." WRITTEN IN PLACE OF DIMENSION INDICATES A STANDARD BAR BEND AT THE END OF A BAR. STRAIGHT BARS ARE INDICATED BY "STR".

ALL REINFORCING IS TO BE EPOXY COATED.

■ 1/2" DIA. GLASS FIBER REINFORCED POLYMER (GFRP) STIFFENING REINFORCEMENT

FOR REINFORCING BAR BENDING DIAGRAMS, SEE SHEET 39/43.

DESIGN AGENCY: AKRON CLEVELAND COLUMBUS
564 WHITE POND DRIVE
AKRON, OHIO 44316-1000
URS

DATE: 7/14
REVIEWED: JTH
DRAWN: VFG
DESIGNED: MRW
CHECKED: SAM

STRUCTURE FILE NUMBER: 7703597

REINFORCING STEEL LIST - 5 OF 5

BRIDGE NO. SUM-76-1051
1-76 RAMP W-5 OVER SWEITZER AVE. AND CSXT RR

SUM-76-10.00
PID No. 77269

43 / 43

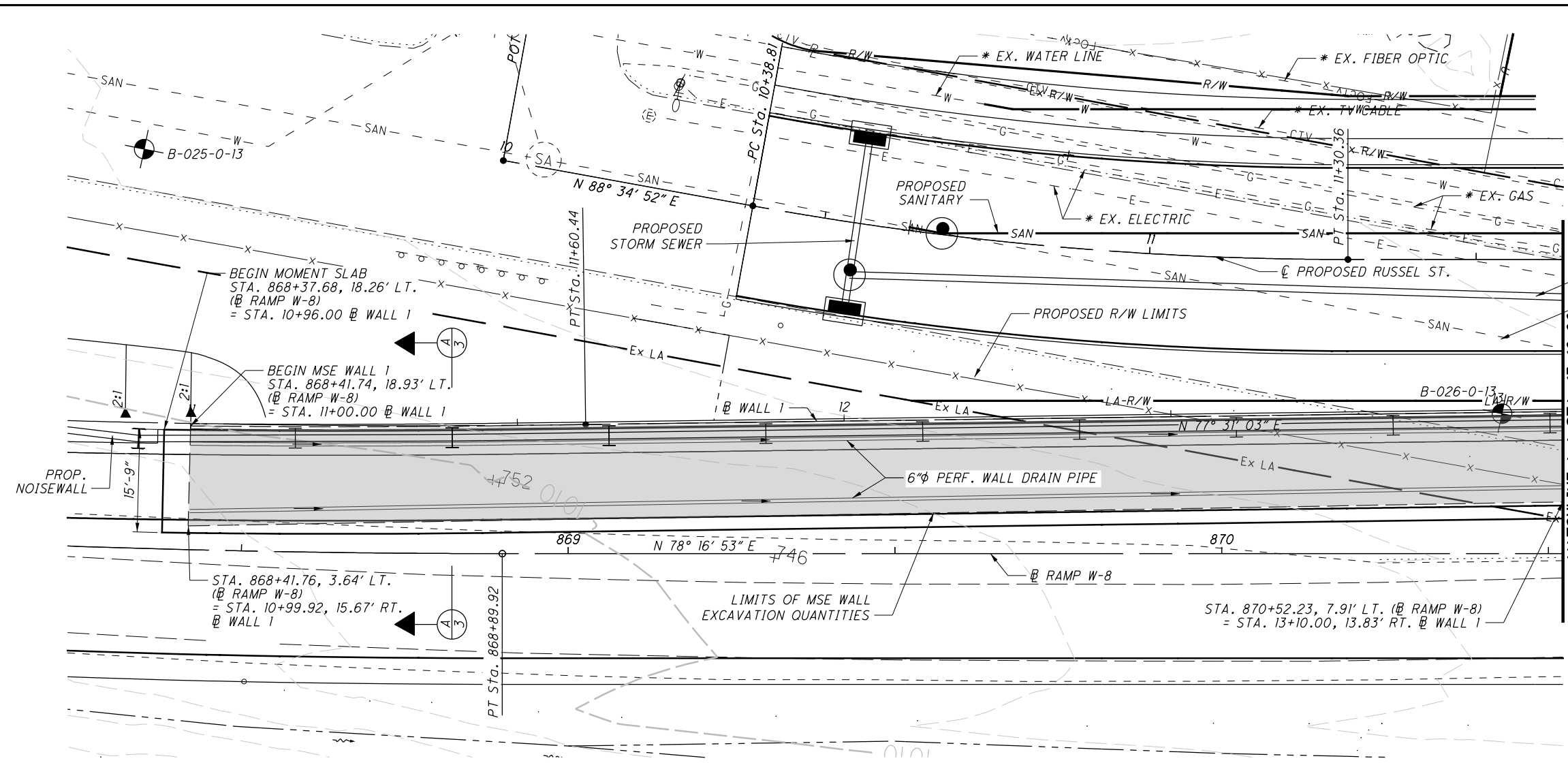
1464
1822

KMK		3/28/16		ITEM 203 - GRANULAR MATERIAL, TYPE C - REMOVED														QUANTITIES CALC. BY		DRC	
REV. BY	DATE	DESCRIPTION																CHECKED BY		RWB	
DATE COMPLETED																					
ITEM ODOT	EXT.	PARTICIPATION	TOTAL	UNIT	DESCRIPTION	MSE WALL 1	WALL 2	MSE WALL 3	MSE WALL 4	MSE WALL 5	MSE WALL 6	MSE WALL 7	MSE WALL 8	WALL 9	WALL 10	MSE WALL 11	MODULAR BLOCK WALL	REF. SHEET			
		02/IMS/BR																			
202	11201	LS	LS		PORTIONS OF STRUCTURE REMOVED, AS PER PLAN		LS								LS			(1626/1822) & (1688/1822)			
203	20001	7,844	7,844	CY	EMBANKMENT, AS PER PLAN			1216	1248	191	2141	2446	602					(1618/1822)			
203	35110	8,598	8,598	CY	GRANULAR MATERIAL, TYPE B			1414	1451	280	1794	2882	777								
503	11101	LS	LS		COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN										LS			(1616/1822) & (1688/1822)			
503	21100	2,290	2,290	CY	UNCLASSIFIED EXCAVATION										2290						
503	21101	460	460	CY	UNCLASSIFIED EXCAVATION, AS PER PLAN									460				(1676/1822)			
505	11100	LS	LS		PILE DRIVING EQUIPMENT MOBILIZATION										LS						
507	00100	4,295	4,295	FT	STEEL PILES HP10X42, FURNISHED										4295						
507	00150	3,840	3,840	FT	STEEL PILES HP10X42, DRIVEN										3840						
507	00400	1,510	1,510	FT	STEEL PILES, MISC.: SOLDIER PILES									1510							
507	93300	83	83	EACH	STEEL POINTS OR SHOES										83			(1676/1822)			
509	10000	275,096	275,096	LB	EPOXY COATED REINFORCING STEEL	56158	14299			53725	8783	82374			59757						
510	10000	130	130	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT		130														
511	46212	2,121	2,121	CY	CLASS QC1 CONCRETE WITH QC/OA	522	145			429	57	638			330						
511	46213	363	363	CY	CLASS QC1 CONCRETE WITH QC/OA, AS PER PLAN									363				(1676/1822)			
511	46512	334	334	CY	CLASS QC1 CONCRETE WITH QC/OA, FOOTING										334						
512	10050	296	296	SY	SEALING OF CONCRETE SURFACES (NON-EPOXY)					296											
512	10101	11,681	11,681	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN	1008	157	417	478	1230	1388	4567	450	1251	543	192		(1616/1822)			
512	33000	124	124	SY	TYPE 2 WATERPROOFING									74	50						
516	13600	216	216	SF	1" PREFORMED EXPANSION JOINT FILLER									76	140						
516	13900	4,723	4,723	SF	2" PREFORMED EXPANSION JOINT FILLER	1013	45	79	96	1325	168	1894	103								

CALCULATED DRC CHECKED RWB
WALL ESTIMATED QUANTITIES - 1 OF 2
SUM - 76 - 10.00
 (1619/1822)

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WALL 1 CURVE DATA:

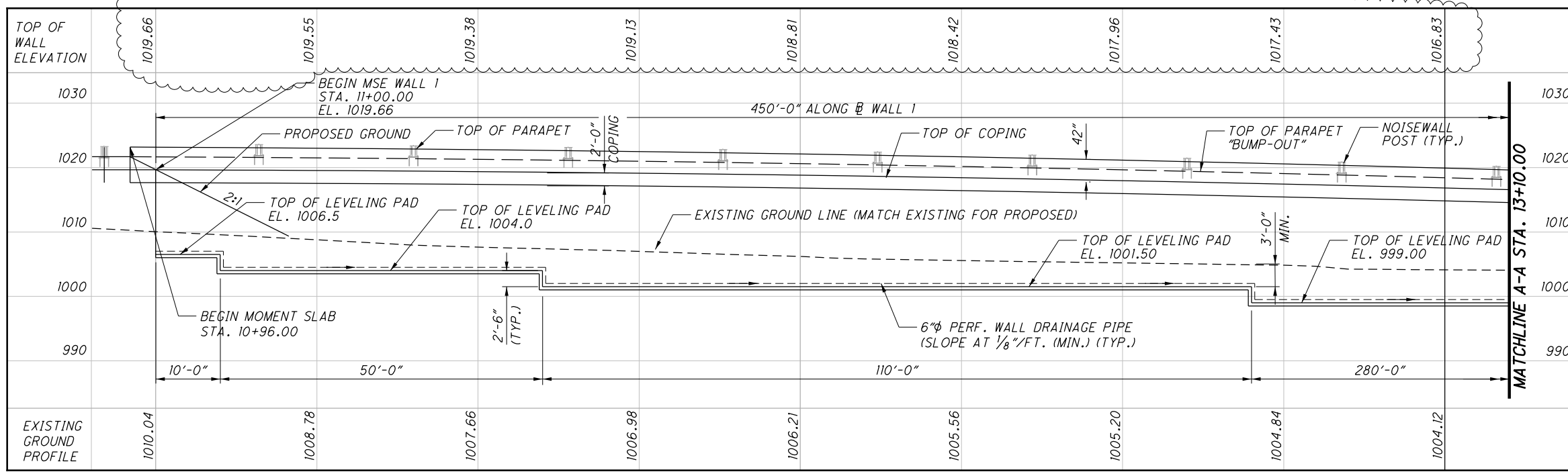
P.I. Sta. 10+80.27
 $\Delta = 4^\circ 51' 31''$ (LT)
 $D_c = 3^\circ 01' 42''$
 $R = 1,892.00'$
 $T = 80.27'$
 $L = 160.44'$
 $E = 1.70'$
 $C = 160.39'$
 $C.B. = N 79^\circ 56' 49'' E$

LEGEND:

- PROJECT BORING LOCATION
- HISTORIC BORING LOCATION

* RELOCATE UTILITIES AS REQUIRED FOR RELOCATED RUSSEL AVE.

PLAN



PROFILE

(ALONG W WALL 1 LOOKING NORTH)

NOTES:

- ALL TOP OF WALL ELEVATION ARE GIVEN AT THE TOP OF COPING.
- THE WALL BASELINE IS LOCATED AT FRONT FACE OF MSE WALL.
- MINIMUM DISTANCE FROM THE PROPOSED GROUND SURFACE TO THE TOP OF THE LEVELING PAD IS DETERMINED BASED ON A FROST DEPTH OF 3.0 FT.
- THE WALL PLANS PRESENT THE MINIMUM LOCATION WHERE STEPS IN THE LEVELING PAD CAN OCCUR. THE FINAL LOCATIONS WILL BE DETERMINED BY THE WALL MANUFACTURE IN THE SHOP DRAWING.
- SEE WALL GENERAL NOTES SHEET ¹⁶¹⁶1822 FOR ADDITIONAL NOTES.
- FOR ADDITIONAL NOTES AND RESTRICTIONS ON PROPOSED SEWER UNDER WALL SEE, DRAINAGE SHEET ⁵⁵1822.

REV. BY	DATE	DESCRIPTION
DEB	3/30/16	WALL ELEVATION REVISIONS
		DATE COMPLETED

1621
1822

NET RESIDUE = RECORD AREA - TOTAL PRO - NET TAKE

ALL AREAS IN ACRES

PARCEL NO.	OWNER	SHEET NUMBER	OFFICIAL RECORD		AUDITOR'S PARCEL	RECORD AREA	TOTAL P.R.O.	GROSS TAKE	P.R.O. IN TAKE	NET TAKE	STRUC-TURE	NET RESIDUE		TYPE FUND	REMARKS	AS ACQUIRED INSTRUMENT NO.
			BOOK	PAGE								LEFT	RIGHT			
153-SH	AKRON BARBERTON CLUSTER RAILWAY, A CORPORATION OF THE STATE OF OHIO	87 - 88	OR 1821	P. 508	6753435***	1.108 (c)	0.000	0.002	0.000	0.002			1.106		*** INCORRECTLY NOTED AS CSX PROPERTY BY SUMMIT COUNTY FISCAL OFFICER . 0.68 REC FISCAL OFF. AREA	
153-A		87 - 88						0.034	0.000	0.034						
153-UV								0.029	0.000	0.029					EXCLUSIVE EASEMENT TO CITY OF AKRON WATERLINE	
154-UV	AKRON BARBERTON CLUSTER RAILWAY, A CORPORATION OF THE STATE OF OHIO	87 - 88	OR 1821	P. 508	6753548	1.320	0.000	0.039	0.000	0.039					EXCLUSIVE EASEMENT TO CITY OF AKRON WATERLINE	
155-WDV	DEL A. HENSLEY (TOTAL TAKE)	87 - 90	R.N. 54895601		6821365	0.292	0.000	0.292	0.000	0.292			0.000			56107998
156-WDV	MCNEIL & NRM, INC.	87 - 90	O.R. 1201	P. 60	6853661	6.940	0.000	0.001	0.000	0.001			6.939			56121430
157-WDV	MCNEIL & NRM, INC. (TOTAL TAKE)	89 - 90	O.R. 1201	P. 60	6808944	0.380	0.000	0.380	0.000	0.380			0.000			56121431
158-WDV1	COUNTY OF SUMMIT, OHIO, AN OHIO CHARTER COUNTY	89 - 90	R.N. 55097926		6763041	12.392	0.000	0.003	0.000	0.003					PARCEL 158 CONTAINS MULTIPLE DEEDS NOT IN AREA OF TAKE AND NOT LISTED OF THIS PARCEL	
158-WDV2		35 - 36	R.N. 54446867				0.000	0.006	0.000	0.006						
		91 - 92														
	TOTAL					12.392	0.000	0.009	0.000	0.009			12.383			
159-T	SUMMIT MUSIC, INC	89 - 90	R.N. 56015997		6704147	0.081	0.000	0.009	0.000	0.009					RETAINING WALL CONSTRUCT, GRADE & SEED	
160-T	GEORGE F. MAROUN	89 - 90	R.N. 56023034		6726984	0.106	0.000	0.012	0.000	0.012					61 L.F. 6' WOOD PRIV. FENCE OF WHICH 31 L.F. ENCRACHING	
		35 - 36			6843290	0.112	0.000	0.012	0.000	0.012					RETAINING WALL CONSTRUCT, GRADE & SEED	
	TOTAL 160-T				6726990	0.079 C	0.000	0.003	0.000	0.003					45 L.F. PRIV. FENCE ENCRACHING EXIST. RW	
								0.027	0.000	0.027					2'± - 6' HIGH CHAIN LINK FENCE & 2- 5' WIDE GATES.	
161-T	CLARENCE C. CUNNINGHAM AS TRUSTEE OF THE CLARENCE C. CUNNINGHAM TRUST DATED January 28, 1991	35 - 36	OR 1857	P. 958	6721054	0.219	0.000	0.063	0.000	0.063						
		91 - 92			6721055	0.066	0.000	0.007	0.000	0.007						
	TOTAL 161-T					0.285	0.000	0.070	0.000	0.070					GRADE & SEED	
161-SLV		35 - 36			6721054			0.003	0.000	0.003						56142834
		91 - 92														
162-T	MCDONALD'S CORPORATION, A DELAWARE CORPORATION	35 - 36	OR 560	P. 882	6855596	0.472	0.000	0.046	0.000	0.046	S(2)				DRIVE RECONSTRUCTION, GRADE & SEED	
		91 - 92													(1) SIGN "MCDONALDS*", (1) SIGN "PRIVATE PARKING**"	
162-PRW		35 - 36														
		91 - 92													ACQUIRE DIRECT ACCESS RIGHTS ALONG NORTH PROP. LINE	
163-WDV	NANCY M BERINGER & JOHN C. BERINGER	93 - 94	R.N. 55823701		6757212	0.850	0.000	0.000	0.000	0.000			0.850			
			R.N. 55823703		6840398	0.480	0.000	0.003	0.000	0.003			0.477			
	TOTAL 163-WDV					1.330	0.000	0.003	0.000	0.003			1.327			56128197

← 90% FEDERAL/10% STATE →

FEDERAL PROJECT NO. E040 (563)
 PID NO. 77269
 STATE JOB NO. 449592
 R/W DESIGNER BLW
 R/W REVIEWER DS
SUMMARY OF ADDITIONAL RIGHT OF WAY-PARCEL 153-163
SUM-76-10.00
 23/102
 1743
 1822

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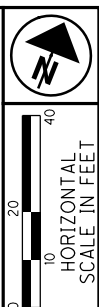
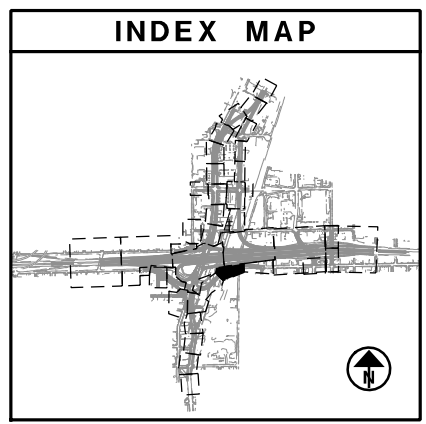
TYPES OF TITLE LEGEND:
 WL = FEE SIMPLE WITH LIMITATION OF ACCESS * DENOTES RIGHT OF WAY ENCROACHMENT
 WD = WARRANTY DEED (c) = CALCULATED AREA
 PRW = PROPERTY RIGHT FEE SIMPLE
 SH = STANDARD HIGHWAY EASEMENT
 T = TEMPORARY EASEMENT
 A = AERIAL EASEMENT
 SL = SLOPE EASEMENT
 U = UTILITY EASEMENT
 PRE = PROPERTY RIGHT EASEMENT
 *V = R/W OR EASEMENTS ACQUIRED IN THE NAME OF THE "CITY OF AKRON"

NOTE: ALL TEMPORARY PARCELS TO BE OF 36 MONTH DURATION.

NOTE: UNDER NO CIRCUMSTANCES ARE TEMPORARY EASEMENTS TO BE USED FOR STORAGE OF MATERIAL OR EQUIPMENT BY THE CONTRACTOR UNLESS NOTED OTHERWISE.

REV. BY	DATE	DESCRIPTION	REV. BY	DATE	DESCRIPTION
			DS	6/23/15	UPDATE OWNER INFO PCL 161
			DS	4/28/15	ADD PCL 162-PRW
			DS	3/27/15	REV. LN. FT. FENCE TAKE PCL. 159
DS	02/17/16	ADD PCL 153-SH. UPDATE PCL 153 PPN INFO	DS	3/20/15	NAME CHANGE PCL. 159
DS	11/24/15	ADD OWNER 153. ADD 153-A & 153-UV	DS	3/3/15	REV. PARCEL 161-SV TO 161-SLV
DS	8/17/15	UPDATE REMARKS PARCEL 160-T	DS	2/04/15	UPDATED RECORD DATA PCL 156 & 157
		DATE COMPLETED			DATE COMPLETED

CITY OF AKRON, SUMMIT COUNTY
 ORIGINAL COVENTRY TOWNSHIP
 TRACT 8, LOT 5 & TRACT 9, LOT 13 - R11, T1
 CONNECTICUT WESTERN RESERVE



PID NO. **77269**

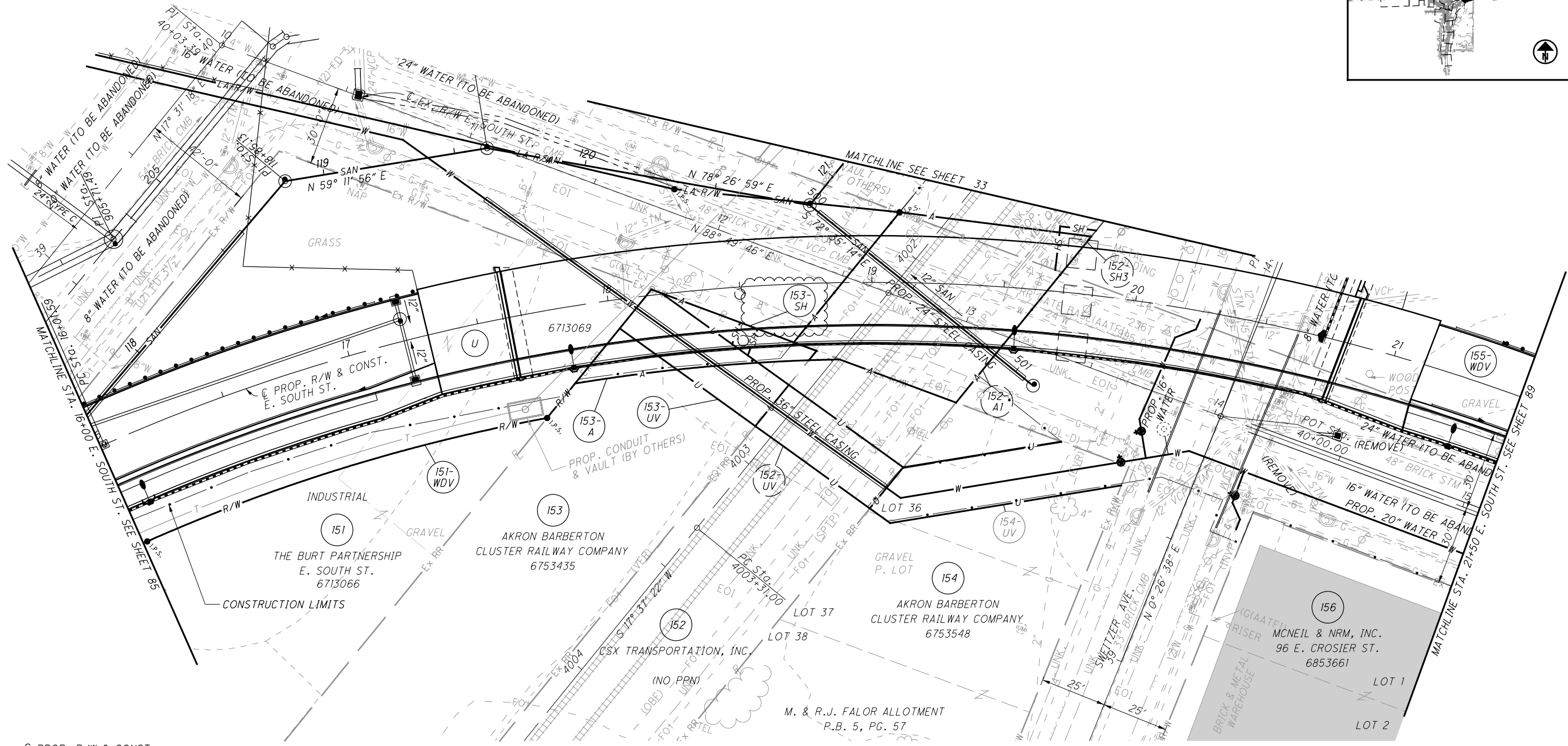
R/W DESIGNER: BLW
 R/W REVIEWER: DS

RIGHT OF WAY TOPO SHEET
STA. 16+00 TO STA. 21+50 E. SOUTH ST.

SUM-76-10.00

87/102

1807
 1822



U \odot PROP. R/W & CONST. E. SOUTH ST.
 P.I. Sta. 19+65.91
 $\Delta = 53^\circ 55' 24''$ (RT)
 $Dc = 8^\circ 00' 00''$
 $R = 716.20'$
 $T = 364.32'$
 $L = 674.04'$
 $E = 87.34'$
 $C = 649.44'$
 $C.B. = N 71^\circ 32' 19'' E$
 $emax = NC$
 $P.C. Sta. = 16+01.59$
 $P.T. Sta. = 22+75.63$

R/W \odot INTERSECTION EQUATIONS:
 \odot PROP. R/W & CONST. E. SOUTH ST. STA. 18+95.69 =
 \odot EX. R/W E. SOUTH ST. STA. 12+57.28
 \odot PROP. R/W & CONST. E. SOUTH ST. STA. 19+09.43 =
 \odot EX. CSX TRANSPORTATION STA. 4002+11.51

REV. BY	DATE	DESCRIPTION
DS	02/17/16	ADD PCL. 153-SH
DS	11/24/15	ADD PCLS 153-A, UV. REV. AREA 152-A1, UV
DATE COMPLETED		

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