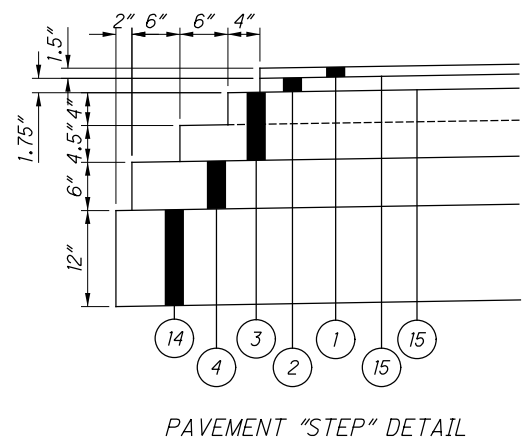


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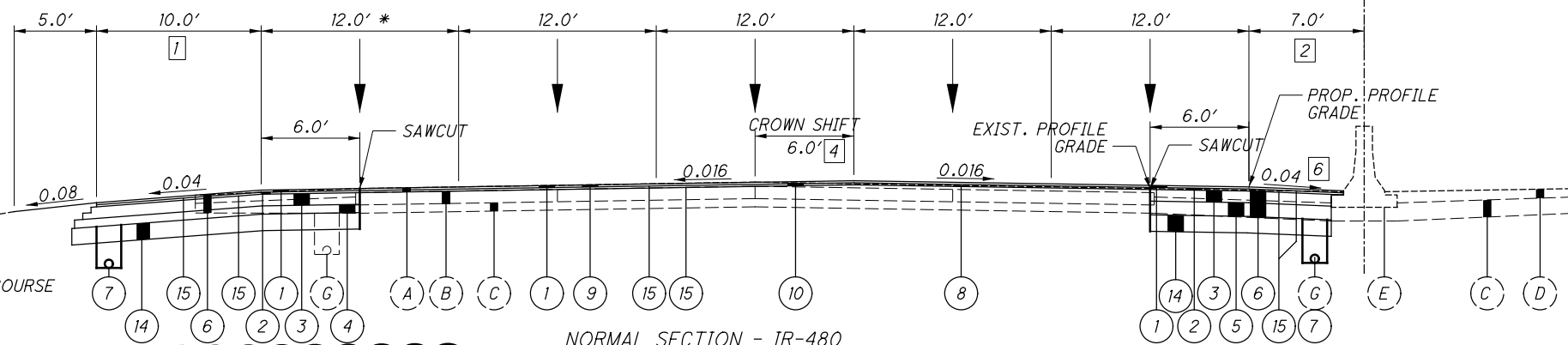
\* EXIT LANE TO GRAYTON ROAD  
BEGINS AT STA. 479+00.00

**EXISTING LEGEND**

- (A) 3" ASPHALT CONCRETE SURFACE AND INTERMEDIATE COURSE
- (B) 9" REINFORCED CONCRETE BASE
- (C) AGGREGATE BASE - THICKNESS AS SHOWN
- (D) BITUMINOUS AGGREGATE BASE - THICKNESS AS SHOWN
- (E) CONCRETE BARRIER, TYPE H
- (F) GUARDRAIL
- (G) 6" PIPE UNDERDRAIN
- (H) 9" REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT

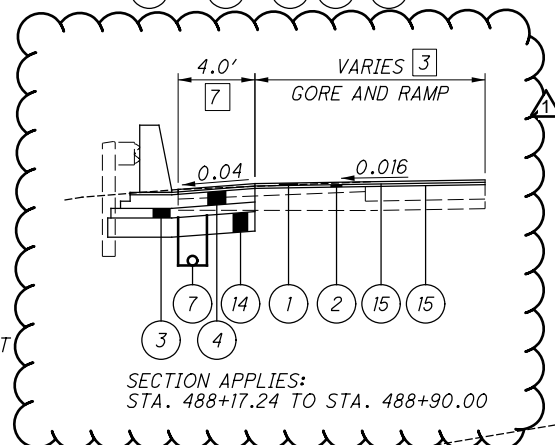
**PROPOSED LEGEND**

- (1) ITEM 442 - ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (447), AS PER PLAN, 1.5"
- (2) ITEM 442 - ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (448), 1.75"
- (3) ITEM 302 - ASPHALT CONCRETE BASE, PG64-22, (449) 8.5" (2 LIFTS)
- (4) ITEM 304 - 6" AGGREGATE BASE
- (5) ITEM 304 - 10" AGGREGATE BASE
- (6) ITEM 202 - PAVEMENT REMOVED
- (7) ITEM 605 - 6" UNDERDRAIN
- (8) ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE, 0.75"
- (9) ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN, 3.25"
- (10) ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN, VARIABLE DEPTH, 0.75" - 3.25"
- (11) ITEM 204 - SUBGRADE COMPACTION
- (12) ITEM 204 - PROOF ROLLING
- (13) ITEM 526 - REINFORCED CONCRETE APPROACH SLAB (SEE STRUCTURES FOR DETAILS)
- (14) ITEM 206 - CEMENT STABILIZED SUBGRADE, 12"
- (15) ITEM 407 - NON-TRACKING TACK COAT

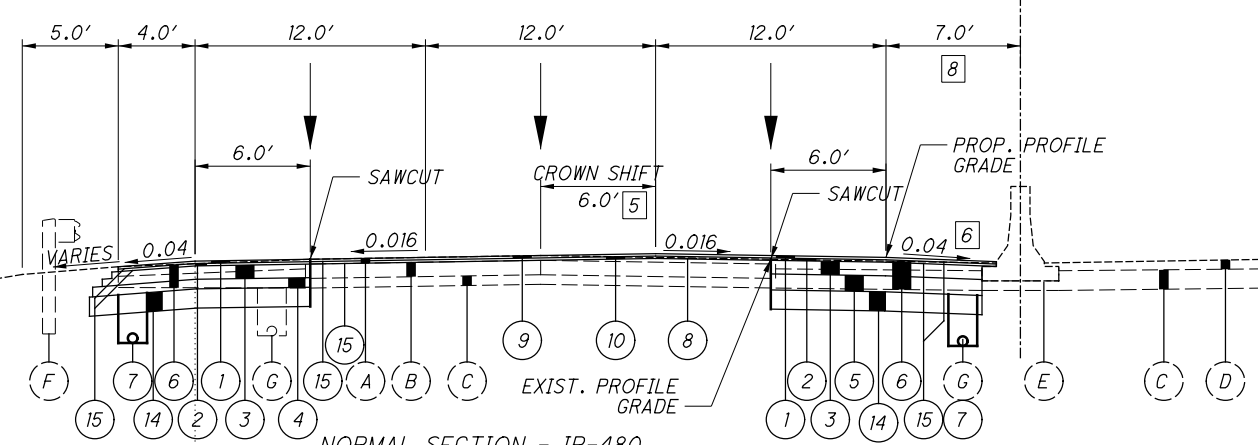


NORMAL SECTION - IR-480

SECTION APPLIES:  
STA. 484+21.76 TO STA. 492+34.76

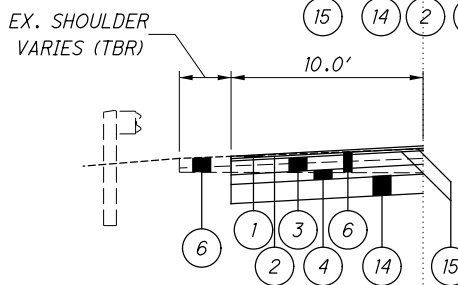


SECTION APPLIES:  
STA. 488+17.24 TO STA. 488+90.00

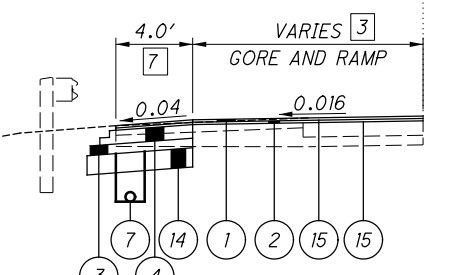


NORMAL SECTION - IR-480

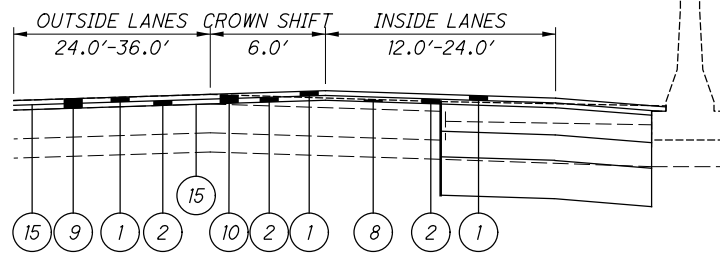
SECTION APPLIES:  
STA. 445+11.58 TO STA. 447+73.81  
STA. 453+29.53 TO STA. 453+55.94  
STA. 468+98.81 TO STA. 473+08.60  
STA. 486+98.16 TO STA. 504+00.00



SECTION APPLIES:  
STA. 497+72.91 TO STA. 504+00.00



SECTION APPLIES:  
STA. 486+98.16 TO STA. 488+17.24  
STA. 488+90.00 TO STA. 497+72.91



CROWN SHIFT DETAIL

- 1 TAPER 10.0' TO 4.0'  
STA. 424+45.00 TO STA. 424+75.00  
4.0'  
STA. 424+75.00 TO 427+75.00  
TAPER 4.0' TO 10.0'  
STA. 427+75 TO STA. 429+75.00
- 2 TAPERS 13.24' TO 7'  
STA. 484+21.76 TO STA. 488+70.00
- 3 VARIES 12.0' TO 45.2'  
STA. 486+98.16 TO STA. 497+72.91  
[ENTRANCE RAMP PAVEMENT IS 24.0',  
OFFSET FROM PROP. B RAMP T-4]
- 4 TAPERS 0.0' TO 6.0'  
STA. 484+21.76 TO STA. 488+70.00
- 5 TAPERS 6.0' TO 0.0'  
STA. 499+00.00 TO STA. 504+00.00
- 6 TAPERS 0.04 TO 0.034  
STA. 492+34.76 TO STA. 420+30.02  
TAPERS 0.034 TO 0.04  
STA. 441+22.08 TO STA. 443+89.08
- 7 TAPER 4.0' TO 10.0'  
STA. 488+20.00 TO STA. 491+40.00
- 8 TAPER 7.0' TO 13.16'  
STA. 499+00.00 TO STA. 504+00.00

ADDENDUM	NUMBER	DATE	DESCRIPTION
	1	11/03/2022	REVISED TYPICAL DETAIL/NOTE

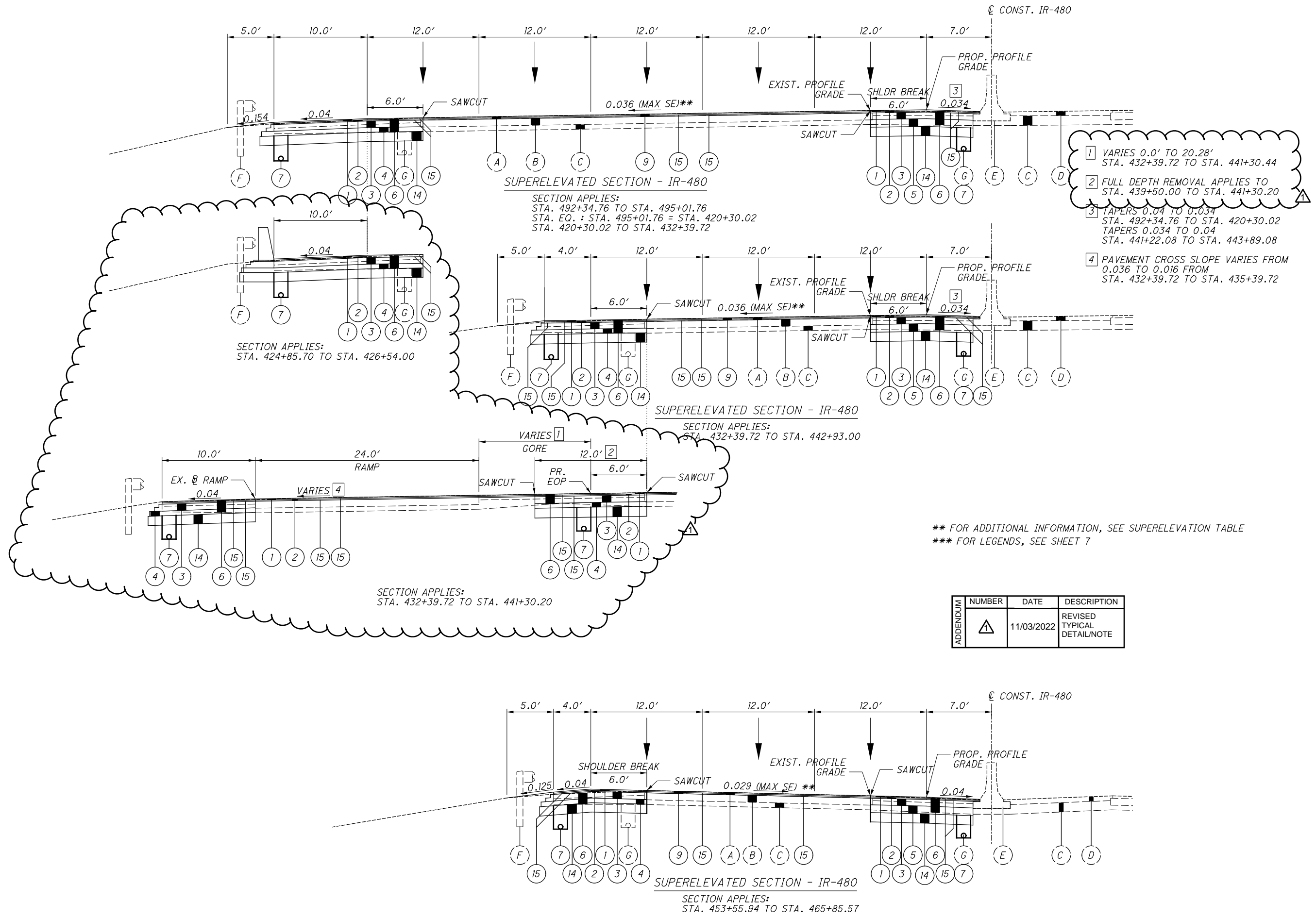
**RESURFACING SECTIONS**

SEE SHEET 66A FOR RESURFACING TYPICAL SECTION  
STA. 475+30.00 TO STA. 484+21.76  
SEE SHEET 83A FOR RESURFACING TYPICAL SECTION  
STA. 504+00.00 TO STA. 513+60.00

TYPICAL SECTIONS - IR-480

CUY-480-07.14 WB

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- 1 VARIES 0.0' TO 20.28'  
STA. 432+39.72 TO STA. 441+30.44
- 2 FULL DEPTH REMOVAL APPLIES TO  
STA. 439+50.00 TO STA. 441+30.20
- 3 TAPERS 0.04 TO 0.034  
STA. 492+34.76 TO STA. 420+30.02  
TAPERS 0.034 TO 0.04  
STA. 441+22.08 TO STA. 443+89.08
- 4 PAVEMENT CROSS SLOPE VARIES FROM  
0.036 TO 0.016 FROM  
STA. 432+39.72 TO STA. 435+39.72

\*\* FOR ADDITIONAL INFORMATION, SEE SUPERELEVATION TABLE  
 \*\*\* FOR LEGENDS, SEE SHEET 7

ADDENDUM	NUMBER	DATE	DESCRIPTION
▲		11/03/2022	REVISED TYPICAL DETAIL/NOTE

TYPICAL SECTIONS - IR-480

CUY-480-07.14 WB

**ITEM 614 - MAINTAINING TRAFFIC**

ALL EXISTING LANES SHALL REMAIN OPEN AND MAINTAINED, UNLESS OTHERWISE SPECIFIED IN THESE PLANS, THROUGH PHASE 3 BY USE OF THE EXISTING PAVEMENT, THE COMPLETED PAVEMENT, AND ITEM 615 PAVEMENT FOR MAINTAINING TRAFFIC.

**I. NOTIFICATION**

THROUGHOUT THE DURATION OF THE PROJECT, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IN WRITING OF ALL TRAFFIC RESTRICTIONS AND UPCOMING MAINTENANCE OF TRAFFIC CHANGES. THE CONTRACTOR SHALL ENSURE THE WRITTEN NOTIFICATION IS SUBMITTED IN A TIMELY MANNER TO ALLOW THE PROJECT ENGINEER TO MEET THE REQUIRED TIME FRAMES SET FORTH IN THE TABLE BELOW TO INFORM THE FOLLOWING:

DISTRICT PUBLIC INFORMATION OFFICER BY EMAIL AT (D12.PUBLIC.INFROMATION@DOT.OHIO.GOV)

DISTRICT PERMIT SECTION BY EMAIL AT (DISTRICT12.PERMITS@DOT.OHIO.GOV)

CENTRAL OFFICE SPECIAL HAUL PERMITS SECTION BY EMAIL AT (HAULING.PERMITS@DOT.OHIO.GOV)

CITY OF CLEVELAND, ANDREW CROSS BY PHONE AT (216) 664-3197 OR EMAIL AT ACROSS@CITY.CLEVELAND.OH.US

GREATER CLEVELAND REGIONAL TRANSIT AUTHORITY (GCTRA):  
 -CENTRAL COMMUNICATIONS: 216-565-5135  
 - TONY RICHARDSON, SERVICE QUALITY, ARICHARDSON@GCTRA.ORG  
 - HOWARD WESLEY, SERVICE QUALITY, HWESLEY@GCTRA.ORG  
 - WANDA WARE, SERVICE QUALITY, WWARE@GCTRA.ORG  
 - ROBERT FLEIG, SERVICE QUALITY COMMUNICATIONS SPECIALIST, ROBERT.FLEIG@GCTRA.ORG  
 - MARK RODRIGUEZ, SERVICE QUALITY OFFICE MANAGER, MARK.RODRIGUEZ@GCTRA.ORG  
 - JOEL FREILICH, SERVICE MANAGEMENT, JFREILICH@GCTRA.ORG  
 - JEFFERY MACKO, SERVICE MANAGEMENT, JMACKO@GCTRA.ORG

THIS NOTIFICATION SHALL BE RECEIVED BY THE PROJECT ENGINEER PRIOR TO THE PHYSICAL SETUP OF ANY APPLICABLE SIGNS OR MESSAGE BOARDS.

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

NOTIFICATION TIME TABLE		
ITEM	DURATION OF CLOSURE	NOTICE DUE TO PERMITS & PIO
RAMP & ROAD CLOSURES	>= 2 WEEKS	21 CALENDAR DAYS PRIOR TO CLOSURE
	> 12 HOURS & < 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	<= 12 HOURS	4 BUSINESS DAYS PRIOR TO CLOSURE
LANE CLOSURES & RESTRICTIONS	>= 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	< 2 WEEKS	5 BUSINESS DAYS PRIOR TO CLOSURE
START OF CONSTRUCTION & TRAFFIC PATTERN CHANGES	N/A	14 CALENDAR DAYS PRIOR TO IMPLEMENTATION

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

**II. PAYMENT**

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

**SEQUENCE OF CONSTRUCTION**

**PREPHASE 1 (NO PLAN SHEETS PROVIDED)**

PREPHASE 1 THRU PHASE 3 SHALL BE COMPLETED DURING THE SAME CONSTRUCTION SEASON.

PRIOR TO BEGINNING WORK IN THE FIRST PHASE OF THE PROJECT, THE PROPOSED DRAINAGE INLETS AND DIRECTIONALLY BORED STORM SEWERS SHALL BE INSTALLED FOLLOWED BY REPLACEMENT OF THE EXISTING INSIDE SHOULDER FROM STA. 484+22 TO STA. 510+90 AND OUTSIDE SHOULDER FROM STA. 479+43 TO STA. 484+22 AND STA. 504+00 TO STA. 509+70 OF I.R. 480 WESTBOUND WITH PAVEMENT FOR MAINTAINING TRAFFIC.

PERMANENT SHOULDER CLOSURES ARE PERMITTED FOR THE DRAINAGE WORK AND SHOULDER REPLACEMENT WORK. LANE CLOSURES SHALL BE AS PER ALLOWED BY THE PERMITTED LANE CLOSURE SCHEDULE.

TO COMPLETE THE DRAINAGE WORK:

- PORTABLE BARRIER SHALL BE PLACED ALONG THE EASTBOUND AND WESTBOUND INSIDE SHOULDER TO ADEQUATELY PROTECT THE OPENINGS IN THE MEDIAN BARRIER WHILE REPLACING THE INLET STRUCTURES. PORTABLE BARRIER AND TEMPORARY SIGNAGE SHALL BE INSTALLED AS PER SCD MT-95.45.

- THE ADJACENT LANES MAY BE CLOSED TO COMPLETE THIS WORK AS ALLOWED BY THE PERMITTED LANE CLOSURE SCHEDULE. LANE CLOSURES SHALL BE AS PER SCD MT-95.30.

- THE RIGHT LANE MAY BE CLOSED TO COMPLETE JACKING/DRILLING OF THE PROPOSED DRAINAGE PIPE. LANE CLOSURES SHALL BE PER SCD MT-95.30. THESE SHALL NOT OCCUR SIMULTANEOUSLY WITH THE LEFT LANE CLOSURES REQUIRED FOR THE MEDIAN WORK.

FOLLOWING THE DRAINAGE WORK, THE EXISTING INSIDE WESTBOUND SHOULDER AND WESTBOUND OUTSIDE SHOULDER, AT THE WESTERN AND EASTERN PROJECT LIMITS, SHALL BE REPLACED WITH PAVEMENT FOR MAINTAINING TRAFFIC USING THE FOLLOWING STEPS:

- THE PORTABLE BARRIER PLACED IN THE SHOULDERS FOR DRAINAGE WORK SHALL BE COMPLETELY REMOVED.

- SHOULDER REPLACEMENT SHALL BE COMPLETED BY CLOSING THE ADJACENT LEFT LANE AS PER THE PERMITTED LANE CLOSURE SCHEDULE. LANE CLOSURES SHALL BE AS PER SCD MT-95.30.

- ALL DROP-OFFS ADJACENT TO THE TRAVEL LANE SHALL BE MAINTAINED AS PER SCD MT-101.90 DURING NON-WORKING HOURS.

**PHASE 1 (SHEETS 23-34)**

THIS PHASE SHALL COMPLETE THE BRIDGE REPAIR AND APPROACH SLAB REPLACEMENT WORK ON THE OUTSIDE OF I.R. 480. THE OUTSIDE SHOULDERS SHALL BE REPLACED WITH FULL-DEPTH PAVEMENT PER THE TYPICAL SECTION. THE TWO LANES OF TRAFFIC SHALL BE SHIFTED TO THE INSIDE AND LANE WIDTHS SHALL BE REDUCED TO 11 FEET. PORTABLE BARRIER SHALL BE USED TO PROTECT THE WORK AREA AT THE BRIDGES.

INTERMEDIATE COURSE SHALL BE USED FOR THE SURFACE COURSE LAYER AT THE OUTSIDE SHOULDERS. THIS INTERMEDIATE COURSE WILL BE MILLED AT PHASE 4. NO PAVEMENT WORK IS NEEDED WITHIN THE EXISTING LANES DURING THIS PHASE.

THE PAVEMENT WITHIN THE EXISTING GORE BETWEEN IR-480 AND THE RAMP FROM IR-71 SB TO IR-480 WB SHALL BE REPLACED IN THIS PHASE. THE LEFT RAMP LANE SHALL BE CLOSED TO COMPLETE THIS WORK. LANE CLOSURES SHALL BE AS PER THE DISTRICT 12 PERMITTED LANE CLOSURE TIMES LIST. LANE CLOSURES SHALL BE AS PER SCD MT-95.30.

**PHASE 2 (SHEETS 35-44)**

THIS PHASE SHALL COMPLETE THE BRIDGE REPAIR AND APPROACH SLAB REPLACEMENT WORK IN THE MIDDLE SECTION OF I.R. 480 WB. THIS WORK REQUIRES THE WESTBOUND LANES BE SPLIT THROUGH THE PROJECT AREA. THE INSIDE LANE WILL REMAIN IN ITS PHASE 1 LOCATION AND THE RIGHT LANE WILL BE SHIFTED TO THE OUTSIDE. LANE WIDTHS SHALL REMAIN AT 11 FEET AND PORTABLE BARRIER SHALL BE USED TO PROTECT THE WORK AREA AT THE BRIDGES.

IN SEGMENTS WHERE THE PAVEMENT CROWN IS BEING ADJUSTED EAST OF THE MERGE FROM IR-71 SB, VARIABLE DEPTH MILLING AND PLACEMENT OF THE VARIABLE DEPTH INTERMEDIATE COURSE SHALL OCCUR FROM THE EXISTING CROWN TO THE PHASE 2 CUT LINE. THIS WORK SHALL BE COMPLETED BY CLOSING OF THE INSIDE LANE AS PERMITTED BY THE PERMITTED LANE CLOSURE SCHEDULE. IN AREAS WHERE PORTABLE BARRIER IS LOCATED, THIS MILLING AND PAVING SHALL BE COMPLETED AT THE END OF PHASE 2 WHEN THE BARRIER CAN BE REMOVED AND REPLACED WITH DRUMS.

**PHASE 3 (SHEETS 45-56)**

THE PAVEMENT CROWN SHIFT WORK WEST OF THE BRIDGE OVER ROCKY RIVER DRIVE, AS SHOWN IN THE PHASE 3 PLAN SHEETS, SHALL BE COMPLETED AT THE BEGINNING OF THIS PHASE.

THIS PHASE SHALL COMPLETE THE BRIDGE REPAIR AND APPROACH SLAB REPLACEMENT WORK ON THE INSIDE OF I.R. 480 WB. THE TEMPORARY PAVEMENT PLACED ON THE INSIDE SHOULDER IN PREPHASE 1 SHALL BE REMOVED AND REPLACED WITH THE PERMANENT PAVEMENT TYPICAL SECTION. THE OUTSIDE LANE FROM PHASE 2 SHALL REMAIN IN ITS SAME LOCATION AND THE INSIDE LANE SHALL BE SHIFTED TO THE OUTSIDE. LANE WIDTHS SHALL REMAIN AT 11 FEET AND PORTABLE BARRIER SHALL BE USED TO PROTECT THE WORK AREA AT THE BRIDGES.

THE EXISTING LEFT LANE SHALL BE MILLED FROM THE PHASE 2 CUT LINE TO THE EXISTING EDGE OF PAVEMENT. ADDITIONAL MILLING PAST THE PHASE 2 CUT LINE WILL BE REQUIRED TO SET THE PROPOSED CROWN. INTERMEDIATE COURSE SHALL BE USED FOR THE SURFACE COURSE LAYER OVER ALL MILLED SURFACES. THIS INTERMEDIATE COURSE WILL BE MILLED AT PHASE 4.

ALL PHASE 3 WORK SHALL BE COMPLETED BY OCTOBER 15, 2023.

ADDENDUM	NUMBER	DATE	DESCRIPTION
	1	11/3/22	REVISED NOTES

**WINTER SHUTDOWN (NO SHEETS PROVIDED)**

THE ROADWAY SHALL BE STRIPED FOR THE PROPOSED THREE LANE CONDITION AND MATCH THE PAVEMENT MARKINGS AS SHOWN IN THE TRAFFIC CONTROL PLANS.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY:

ITEM 614, WORK ZONE LANE LINE, CLASS 1, 6", 807 PAINT --- 5.11 MILE

ITEM 614, WORK ZONE EDGE LINE, CLASS 1, 6", 807 PAINT --- 4.35 MILE

ITEM 614, WORK ZONE CHANNELIZING LINE, CLASS 1, 12", 807 PAINT --- 4,737 FT

ITEM 614, WORK ZONE DOTTED LINE, CLASS 1, 6" 807 PAINT --- 4,066 FT

ITEM 614, WORK ZONE RAISED PAVEMENT MARKER, AS PER PLAN --- 423 EACH

**PHASE 4 (NO SHEETS PROVIDED)**

THIS PHASE SHALL COMPLETE 3.25" MILLING AND RESURFACING OF THE EXISTING LANES AND 1.5" MILLING OF THE TEMPORARY INTERMEDIATE ASPHALT COURSE AND RESURFACING FOR IR-480 WB FROM GRAYTON ROAD (STA. 475+30) TO JUST EAST OF THE RAMP MERGE FROM IR-71 NB (STA. 513+60). THE PERMITTED LANE CLOSURE SCHEDULE SHALL BE REVISED SUCH THAT IT IS BASED ON A THREE LANE SECTION FOR ALL PHASE 4 WORK. A SINGLE LANE CLOSURE SHALL LEAVE TWO LANES OPEN.

**LANE VALUE CONTRACT**

THE CONTRACTOR SHALL BE ASSESSED DISINCENTIVES AS DESIGNATED IN THE LANE VALUE CONTRACT TABLE FOR EACH UNIT OF TIME THE DESCRIBED CRITICAL LANE/RAMP IS RESTRICTED FROM FULL USE BY THE TRAVELING PUBLIC WITHIN THE RESTRICTED TIME PERIOD. THE LANE VALUE CONTRACT TABLE IS LOCATED BELOW. THE DISINCENTIVES WILL BE ASSESSED FOR ALL RESTRICTIONS OF THE CRITICAL WORK.

CRITICAL WORK IS SHOWN IN THE LANE VALUE CONTRACT TABLE BELOW.

CRITICAL WORK IS DEFINED AS HAVING THE DESIGNATED SECTIONS OPEN TO UNRESTRICTED TRAFFIC AS SHOWN IN THE TABLE, OR THE ENTIRE PROJECT IF NOT OTHERWISE LISTED.

UNRESTRICTED TRAFFIC IS DEFINED AS ALL TRAFFIC LANES BEING AVAILABLE FOR USE WITH SPECIFIED STRIPING AND SAFETY FEATURES IN PLACE.

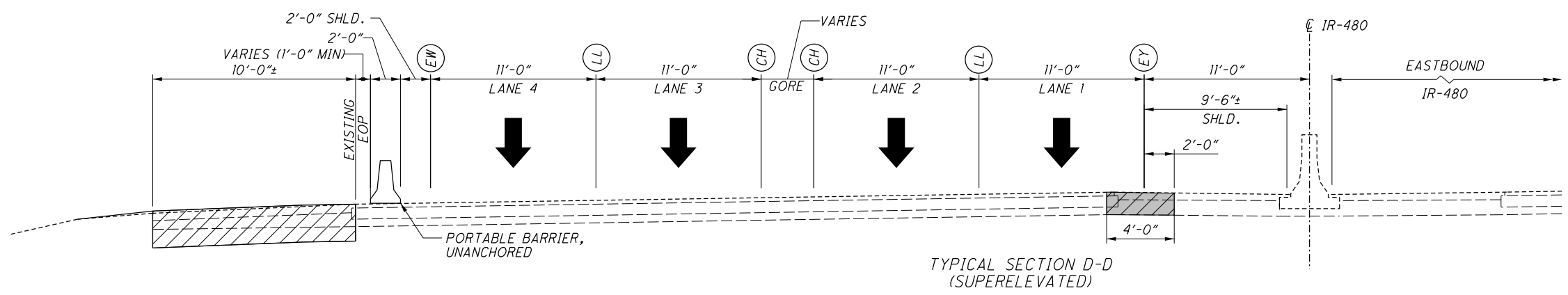
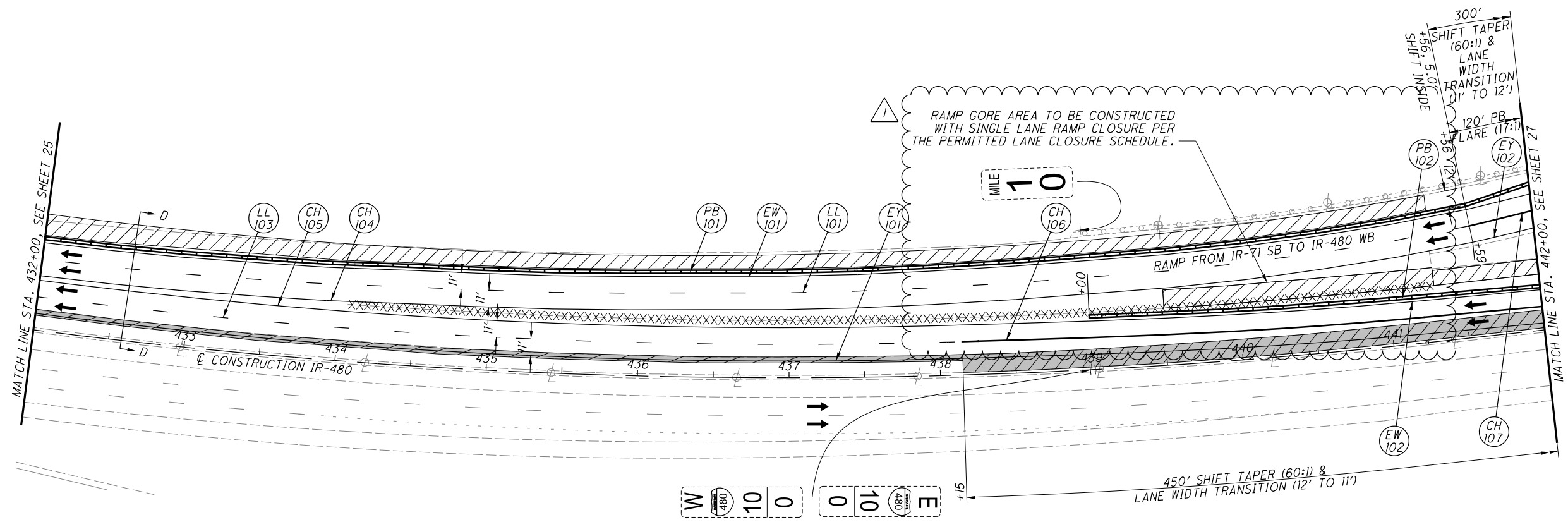
DESCRIPTION OF CRITICAL LANE/RAMP TO BE MAINTAINED	RESTRICTED TIME PERIOD	TIME UNIT	DISINCENTIVE \$ PER TIME UNIT PER LANE
CLAGUE RD TO I-71, EB & WB	AS PER THE D12 PERMITTED LANE CLOSURE SCHEDULE	EACH MINUTE	\$255
SR-237 MERGE TO I-71 MERGE, EB (3 LANE SECTION)	AS PER THE D12 PERMITTED LANE CLOSURE SCHEDULE	EACH MINUTE	\$230
SR-237 MERGE TO I-71 MERGE, EB (2 LANE SECTION)	AS PER THE D12 PERMITTED LANE CLOSURE SCHEDULE	EACH MINUTE	\$350
I-71 SPLIT TO SR-237 SPLIT, WB (3 LANE SECTION)	AS PER THE D12 PERMITTED LANE CLOSURE SCHEDULE	EACH MINUTE	\$300
I-71 SPLIT TO SR-237 SPLIT, WB (2 LANE SECTION)	AS PER THE D12 PERMITTED LANE CLOSURE SCHEDULE	EACH MINUTE	\$450
I-71 MERGE TO LANCASTER OVERPASS, EB & WB	AS PER THE D12 PERMITTED LANE CLOSURE SCHEDULE	EACH MINUTE	\$265

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REF NO.	SHEET NO.	STATION TO STATION		SIDE	614															622		630	
					WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (UNIDIRECTIONAL)	WORK ZONE RAISED PAVEMENT MARKER (ONE-WAY WHITE @ 20' C/C SPACING)	WORK ZONE RAISED PAVEMENT MARKER (TWO-WAY WHITE/RED @ 40' C/C SPACING)	WORK ZONE RAISED PAVEMENT MARKER (ONE-WAY YELLOW @ 20' C/C SPACING)	WORK ZONE RAISED PAVEMENT MARKER (TWO-WAY YELLOW/RED @ 80' C/C SPACING)	WORK ZONE RAISED PAVEMENT MARKER (ONE-WAY WHITE @ 120' C/C SPACING)	BARRIER REFLECTOR, TYPE 1 (ONE WAY)	OBJECT MARKER, ONE WAY	WORK ZONE LANE LINE, CLASS 1, 6", 807 PAINT	WORK ZONE EDGE LINE, CLASS 1, 6", 807 PAINT (WHITE)	WORK ZONE EDGE LINE, CLASS 1, 6", 807 PAINT (YELLOW)	WORK ZONE CHANNELIZING LINE, CLASS 1, 12", 807 PAINT	WORK ZONE DOTTED LINE, CLASS 1, 6", 807 PAINT		PORTABLE BARRIER, "Y" CONNECTOR	PORTABLE BARRIER, UNANCHORED	SIGN, TEMPORARY OVERLAY		
PHASE I					EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	MILE	MILE	MILE	FT	FT		EACH	FT	SF	
DL-101	23	480+40	TO	483+50	LT													310					
DL-102	31-32	486+40	TO	496+10	LT													970					
PB-101	23-27	484+00	TO	442+85	LT																3360		
PB-102	26-28	439+00	TO	457+50	LT								38	38							1850		
PB-103	28-29	459+70	TO	463+50	LT								4	4							480		
PB-104	29-30	464+50	TO	472+20	LT								16	16						1	760		
PB-105	29	471+00	TO	472+00	LT								3	3							100		
PB-106	29-32	470+66	TO	497+60	LT								55	55							2700		
PB-107	32-33	497+60	TO	505+80	LT								17	17							820		
EW-101	23-27	480+40	TO	444+56	LT		16								0.73								
EW-102	26-29	441+00	TO	470+96	LT										0.57								
EW-103	29-32	470+66	TO	498+08	LT										0.52								
EW-104	32-33	497+60	TO	510+90	LT		50								0.25								
CH-101	23	477+40	TO	487+00	LT		49										960						
CH-102	23	477+40	TO	487+00	LT		49										960						
CH-103	23	477+40	TO	487+00	LT		49										960						
CH-104	25-26	431+00	TO	441+59	LT			28									1059						
CH-105	25-26	431+00	TO	441+00	LT		30										1000						
CH-106	26-27	438+15	TO	445+65	LT		38										750						
CH-107	26-27	441+59	TO	444+56	LT		16										300						
CH-108	29-30	470+96	TO	481+02	LT			10									1006						
CH-109	29-30	470+96	TO	474+41	LT			10									345						
CH-110	32	496+10	TO	497+60	LT												150						
CH-111	32	496+10	TO	497+73	LT			5									163						
CH-112	32-34	501+00	TO	513+60	LT		64										1260						
CH-113	32-34	501+00	TO	513+60	LT		64										1260						
EY-101	23-33	480+40	TO	510+90	LT			138								1.99							
EY-102	26-27	441+59	TO	444+56	LT			16								0.06							
EY-103	29	470+11	TO	470+66	LT				2							0.01							
EY-104	32	497+73	TO	498+15	LT				2							0.01							
LL-101	24-26	487+00	TO	441+59	LT					25				0.56									
LL-102	24-25	487+00	TO	431+00	LT					16				0.35									
LL-103	24-26	487+00	TO	438+15	LT					22				0.49									
LL-104	27-32	445+65	TO	501+00	LT					47				1.05									
LL-105	30-32	481+02	TO	501+00	LT					17				0.38									
IA-101	27	442+85	TO	443+10	LT	1																	
IA-102	28	457+50	TO	457+75	LT	1																	
IA-103	29	463+50	TO	463+75	LT	1																	
IA-104	30	472+20	TO	472+45	LT	1																	
IA-105	32	497+60	TO	497+85	LT	1																	
IA-106	33	505+80	TO	506+05	LT	1																	
S-101	30			481+00	LT																	14	
S-102	31			489+00	LT																	6	
<b>TOTALS CARRIED TO GENERAL SUMMARY</b>						6	425	53	154	4	127	208	208	2.84	2.07	2.07	10173	1280		1	10070	1	20

ADDENDUM	NUMBER	DATE	DESCRIPTION
	1	11/3/22	REVISED QUANTITIES

CALCULATED JUL CHECKED KDW  
**MAINTENANCE OF TRAFFIC SUBSUMMARY**  
**CUY-480-07.14 WB**  
 19  
 225



ADDENDUM	NUMBER	DATE	DESCRIPTION
1	1	11/3/22	REVISED WORK AREA

**NOTES**  
1. FOR LEGEND AND DRUM SPACING CHART, SEE SHEET 23.

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SHEET NUM.										PART.		ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
11	62	63	64	65	66	67	OFFICE CALCS	01/SAF/P V	02/SAF/B R								
<b>ROADWAY</b>																	
LS								LS		201	11000	LS			CLEARING AND GRUBBING		
	14,196							14,196		202	23000	14,196	SY		PAVEMENT REMOVED		
	289							289		202	30700	289	FT		CONCRETE BARRIER REMOVED		
	3,137							3,137		202	38000	3,137	FT		GUARDRAIL REMOVED		
						261	3,007	3,268		203	10000	3,268	CY		EXCAVATION		
						335.6		335.6		203	20000	335.6	CY		EMBANKMENT		
11								11		204	45000	11	HOUR		PROOF ROLLING		
		352	209					561		206	10500	561	TON		CEMENT		
		13,583	8,061					21,644		206	11000	21,644	SY		CURING COAT		
		13,583	8,061					21,644		206	15010	21,644	SY		CEMENT STABILIZED SUBGRADE, 12 INCHES DEEP		
	0.55							0.55		209	15051	0.55	MILE		RESHAPING UNDER GUARDRAIL, AS PER PLAN	13	
	2,679							2,679		606	15050	2,679	FT		GUARDRAIL, TYPE MGS		
	2							2		606	26150	2	EACH		ANCHOR ASSEMBLY, MGS TYPE E, (MASH 2016)		
	2							2		606	26550	2	EACH		ANCHOR ASSEMBLY, MGS TYPE T		
	5							5		606	35002	5	EACH		MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1		
	4							4		606	35102	4	EACH		MGS BRIDGE TERMINAL ASSEMBLY, TYPE 2		
	6							6		622	10201	6	EACH		BARRIER TRANSITION, AS PER PLAN	12	
	197							197		622	24000	197	FT		CONCRETE BARRIER, TYPE D		
	3							3		622	25000	3	EACH		CONCRETE BARRIER END SECTION, TYPE D		
<b>EROSION CONTROL</b>																	
1								1		659	00100	1	EACH		SOIL ANALYSIS TEST		
250								250		659	00300	250	CY		TOPSOIL		
3,286								3,286		659	10000	3,286	SY		SEEDING AND MULCHING		
330								330		659	14000	330	SY		REPAIR SEEDING AND MULCHING		
330								330		659	15000	330	SY		INTER-SEEDING		
1								1		659	20000	1	TON		COMMERCIAL FERTILIZER		
1								1		659	31000	1	ACRE		LIME		
0.1								0.1		659	35000	0.1	MGAL		WATER		
0.1								0.1		659	40000	0.1	MSF		MOWING		
				2,036				2,036		670	00200	2,036	SY		VEGETATED SWALE EROSION PROTECTION		
					LS			LS		832	15000	LS			STORM WATER POLLUTION PREVENTION PLAN		
					LS			LS		832	15002	LS			STORM WATER POLLUTION PREVENTION INSPECTIONS		
					LS			LS		832	15010	LS			STORM WATER POLLUTION PREVENTION INSPECTION SOFTWARE		
					25,000			25,000		832	30000	25,000	EACH		EROSION CONTROL		
<b>DRAINAGE</b>																	
				2				2		602	20000	2	CY		CONCRETE MASONRY		
				150				150		605	13300	150	FT		6" UNCLASSIFIED PIPE UNDERDRAINS		
				16,496				16,496		605	14000	16,496	FT		6" BASE PIPE UNDERDRAINS		
				522				522		611	00510	522	FT		6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS		
				414				414		611	96601	414	FT		CONDUIT, BORED OR JACKED, AS PER PLAN, 15" TYPE B	13	
				4				4		611	98801	4	EACH		INLET, NO. 3B, AS PER PLAN	13	
				6				6		611	99710	6	EACH		PRECAST REINFORCED CONCRETE OUTLET		

352  
13,583  
13,583

209  
8,061  
8,061

561  
21,644  
21,644

561  
21,644  
21,644

ADDENDUM	NUMBER	DATE	DESCRIPTION
	△	11/03/2022	REVISED QUANTITIES

**GENERAL SUMMARY**  
  
**CUY - 480 - 07 . 14 WB**  
  
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SHEET NUM.										PART.		ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
11	13	21A	62	63	64	140	160	161		01/SAF/P V	02/SAF/B R						
	200									200		251	01021	200	SY	PARTIAL DEPTH PAVEMENT REPAIR (442), AS PER PLAN A	13
	500									500		251	01021	500	SY	PARTIAL DEPTH PAVEMENT REPAIR (442), AS PER PLAN B	13
			4,143							4,143		254	01000	4,143	SY	PAVEMENT PLANING, ASPHALT CONCRETE, 0.75"	
		30,115								30,115		254	01000	30,115	SY	PAVEMENT PLANING, ASPHALT CONCRETE (DEPTH = 1.5")	
			13,960							13,960		254	01001	13,960	SY	PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN, 1.5"	12
			29,603							29,603		254	01001	29,603	SY	PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN, 3.25"	12
			3,067							3,067		254	01001	3,067	SY	PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN, 0.75" - 3.25"	12
			3,162	1,850						5,012		302	56000	5,012	CY	ASPHALT CONCRETE BASE, PG64-22, (449)	
			3,200	1,748						4,948		304	20000	4,948	CY	AGGREGATE BASE	
		1,769		8,557	5,533					15,859		407	20000	15,859	GAL	NON-TRACKING TACK COAT	
			105							105		441	70801	105	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (449), (UNDER GUARDRAIL), AS PER PLAN	13
			2,392	1,644						4,036		442	00100	4,036	CY	ANTI-SEGREGATION EQUIPMENT	
			1,829	1,217						3,046		442	10301	3,046	CY	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (447), AS PER PLAN, PG76-22M	13
		1,255	1,754	1,123						2,877		442	20200	2,877	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (448), 1.75"	
										1,255		442	20101	1,255	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, 9.5 MM, TYPE A (448), AS PER PLAN, PG76-22M	18
			90							90		609	24510	90	FT	CURB, TYPE 4-C	
4.6										4.6		618	40601	4.6	MILE	RUMBLE STRIPS, SHOULDER (ASPHALT CONCRETE), AS PER PLAN	11
						8.58				8.58		850	10010	8.58	MILE	GROOVING FOR 6" RECESSED PAVEMENT MARKING, (ASPHALT)	
						8,803				8,803		850	10130	8,803	FT	GROOVING FOR 12" RECESSED PAVEMENT MARKING, (ASPHALT)	
						0.88				0.88		850	20010	0.88	MILE	GROOVING FOR 6" RECESSED PAVEMENT MARKING, (CONCRETE)	
								36		36		625	00450	36	EACH	CONNECTION, FUSED PULL APART	
								30		30		625	00480	30	EACH	CONNECTION, UNFUSED PERMANENT	
								3,681		3,681		625	23200	3,681	FT	NO. 4 AWG 2400 VOLT DISTRIBUTION CABLE	
								16,197		16,197		625	23300	16,197	FT	NO. 2 AWG 2400 VOLT DISTRIBUTION CABLE	
								80		80		625	25604	80	FT	CONDUIT, 4", 725.051	
								6,486		6,486		625	25910	6,486	FT	CONDUIT CLEANED AND CABLES REMOVED	
								8		8		625	39520	8	EACH	PULL BOX CLEANED	
							LS			LS		SPECIAL	62540000	LS		MAINTAIN EXISTING LIGHTING	160
							5			5		SPECIAL	62540010	5	EACH	REPLACEMENT OF EXISTING LIGHTING UNIT	160

ADDENDUM	NUMBER	DATE	DESCRIPTION
	▲	11/03/2022	REVISED QUANTITIES

**GENERAL SUMMARY**

**CUY - 480 - 07 . 14 WB**

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SHEET NUM.								PART.		ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
13	19	20	62	140	141	165	01/SAF/P V	02/SAF/B R							
			2				2		620	00500	2	EACH	TRAFFIC CONTROL DELINEATOR, POST GROUND MOUNTED		
				423			423		621	00101	423	EACH	RPM, AS PER PLAN	142	
328							328		621	54000	328	EACH	RAISED PAVEMENT MARKER REMOVED		
					2		2		625	32000	2	EACH	GROUND ROD		
			37				37		626	00110	37	EACH	BARRIER REFLECTOR, TYPE 2, ONE-WAY		
				62			62		630	03100	62	FT	GROUND MOUNTED SUPPORT, NO. 3 POST		
				28.4			28.4		630	06400	28.4	FT	GROUND MOUNTED STRUCTURAL BEAM SUPPORT, S4X7.7		
				2			2		630	09000	2	EACH	BREAKAWAY STRUCTURAL BEAM CONNECTION		
				2			2		630	72340	2	EACH	OVERHEAD SIGN SUPPORT, TYPE TC-12.31, DESIGN 12		
				27			27		630	75000	27	EACH	SIGN ATTACHMENT ASSEMBLY		
					36		36		630	80100	36	SF	SIGN, FLAT SHEET		
				1,633			1,633		630	80224	1,633	SF	SIGN, OVERHEAD EXTRUSHEET		
					2		2		630	84500	2	EACH	GROUND MOUNTED STRUCTURAL BEAM SUPPORT FOUNDATION		
					2		2		630	84510	2	EACH	RIGID OVERHEAD SIGN SUPPORT FOUNDATION		
					3		3		630	84900	3	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL		
					1		1		630	85600	1	EACH	REMOVAL OF GROUND MOUNTED MAJOR SIGN AND REERECTION		
					6		6		630	86002	6	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL		
					2		2		630	86292	2	EACH	REMOVAL OF GROUND MOUNTED WOODEN BOX BEAM SUPPORT AND DISPOSAL		
					2		2		630	87100	2	EACH	REMOVAL OF OVERHEAD MOUNTED SIGN AND REERECTION		
					19		19		630	87400	19	EACH	REMOVAL OF OVERHEAD MOUNTED SIGN AND DISPOSAL		
					2		2		630	89706	2	EACH	REMOVAL OF OVERHEAD SIGN SUPPORT AND DISPOSAL, TYPE TC-12.30		
			339				339		646	10620	339	FT	CHEVRON MARKING		
			4.35				4.35		807	12010	4.35	MILE	WET REFLECTIVE EPOXY PAVEMENT MARKING, EDGE LINE, 6"		
			5.11				5.11		807	12110	5.11	MILE	WET REFLECTIVE EPOXY PAVEMENT MARKING, LANE LINE, 6"		
			4,737				4,737		807	12310	4,737	FT	WET REFLECTIVE EPOXY PAVEMENT MARKING, CHANNELIZING LINE, 12"		
			4,066				4,066		807	12430	4,066	FT	WET REFLECTIVE EPOXY PAVEMENT MARKING, DOTTED LINE, 12"		
													<b>STRUCTURE REPAIR (CUY-480-0792)</b>		
					LS		LS		202	11201	LS		PORTIONS OF STRUCTURE REMOVED, AS PER PLAN	162	
					254		254		202	22901	254	SY	APPROACH SLAB REMOVED, AS PER PLAN	176	
					11,605		11,605		509	10000	11,605	LB	EPOXY COATED REINFORCING STEEL		
					100		100		509	20001	100	LB	REINFORCING STEEL, REPLACEMENT OF EXISTING REINFORCING STEEL, AS PER PLAN	162	
					4,326		4,326		509	30020	4,326	FT	NO. 4 GFRP DEFORMED BARS		
					922		922		510	10000	922	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT		
					9		9		511	34445	9	CY	CLASS QC2 CONCRETE, BRIDGE DECK, AS PER PLAN	174	
					48		48		511	34449	48	CY	CLASS QC2 CONCRETE, BRIDGE DECK (PARAPET), AS PER PLAN	172	
					13		13		511	44110	13	CY	CLASS QC1 CONCRETE, ABUTMENT NOT INCLUDING FOOTING		
					289		289		512	10100	289	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)		
					119		119		512	74000	119	SY	REMOVAL OF EXISTING COATINGS FROM CONCRETE SURFACES		
					3,796		3,796		513	21501	3,796	LB	REPLACEMENT OF DETERIORATED END CROSSFRAMES, AS PER PLAN	162	
					98		98		516	11210	98	FT	STRUCTURAL EXPANSION JOINT INCLUDING ELASTOMERIC STRIP SEAL		
					113		113		516	13600	113	SF	1" PREFORMED EXPANSION JOINT FILLER		
					8		8		518	12801	8	EACH	SCUPPER, MODIFICATION, AS PER PLAN	162	
					254		254		526	25000	254	SY	REINFORCED CONCRETE APPROACH SLABS (T=15")		
					92		92		526	90010	92	FT	TYPE A INSTALLATION		
					2		2		625	29941	2	EACH	BARRIER JUNCTION BOX, AS PER PLAN	162	
					838		838		847	10200	838	SY	SUPERPLASTICIZED DENSE CONCRETE OVERLAY (T=1.75")		
					67		67		847	20201	67	CY	SUPERPLASTICIZED DENSE CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY, AS PER PLAN	167	
					LS		LS		847	30000	LS		TEST SLAB		
					841		841		847	30400	841	SY	EXISTING CONCRETE OVERLAY REMOVED (T=2.5")		
					84		84		847	50000	84	SY	HAND CHIPPING		

**GENERAL SUMMARY**

**CUY - 480 - 07 . 14 WB**

ADDENDUM	NUMBER	DATE	DESCRIPTION
	▲	11/03/2022	ADDED ITEM



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SHEET NUM.										PART.		ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
11	15	16	18	19	20	21	14	01/SAF/P V	02/SAF/B R								
<b>MAINTENANCE OF TRAFFIC</b>																	
			200					200		614	11110	200	200	200	200	HOUR	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE
	6			6	2	7		21		614	12380	21	21	21	EACH	WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (UNIDIRECTIONAL)	
		2						2		614	12484	2	2	2	EACH	WORK ZONE INCREASED PENALTIES SIGN	
	10							10		614	12500	10	10	10	EACH	REPLACEMENT SIGN	
			763	618	585			1,966		614	12800	1,966	1,966	1,966	EACH	WORK ZONE RAISED PAVEMENT MARKER	
							423	423		614	12801	423	423	423	EACH	WORK ZONE RAISED PAVEMENT MARKER, AS PER PLAN	
	45	100						100		614	13000	100	100	100	CY	ASPHALT CONCRETE FOR MAINTAINING TRAFFIC	
			123	208	75	255		706		614	13310	706	706	706	EACH	BARRIER REFLECTOR, TYPE 1, (ONE WAY)	
			62					62		614	13312	62	62	62	EACH	BARRIER REFLECTOR, TYPE 2, (ONE-WAY)	
	45		185	208	75	255		768		614	13350	768	768	768	EACH	OBJECT MARKER, ONE WAY	
		14						14		614	18601	14	14	14	SNMT	PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN	
			2.84	2.2	2.9	5.11		13.05		614	20056	13.05	13.05	13.05	MILE	WORK ZONE LANE LINE, CLASS I, 6", 807 PAINT	
	5.11			4.14	6.44	3.36	4.35	5.11		614	20560	5.11	5.11	5.11	MILE	WORK ZONE LANE LINE, CLASS III, 6", 642 PAINT	
								18.29		614	22056	18.29	18.29	18.29	MILE	WORK ZONE EDGE LINE, CLASS I, 6", 807 PAINT	
								4.35		614	22360	4.35	4.35	4.35	MILE	WORK ZONE EDGE LINE, CLASS III, 6", 642 PAINT	
			10,173	7,260	8,249	4,737		30,419		614	23110	30,419	30,419	30,419	FT	WORK ZONE CHANNELIZING LINE, CLASS I, 12", 807 PAINT	
	4,737							4,737		614	23690	4,737	4,737	4,737	FT	WORK ZONE CHANNELIZING LINE, CLASS III, 12", 642 PAINT	
			1,280	875	526	4,066		6,747		614	24102	6,747	6,747	6,747	FT	WORK ZONE DOTTED LINE, CLASS I, 6", 807 PAINT	
								4,066		614	24612	4,066	4,066	4,066	FT	WORK ZONE DOTTED LINE, CLASS III, 6", 642 PAINT	
				194				194		614	25200	194	194	194	FT	WORK ZONE TRANSVERSE/DIAGONAL LINE, CLASS I, 642 PAINT	
	LS							LS		615	10000	LS	LS	LS		ROADS FOR MAINTAINING TRAFFIC	
	8,325							8,325		615	20000	8,325	8,325	8,325	SY	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A	
	1,951							1,951		615	20001	1,951	1,951	1,951	SY	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A, AS PER PLAN	
	5							5		616	10000	5	5	5	MGAL	WATER	
	2,200							2,200		622	41050	2,200	2,200	2,200	EACH	PORTABLE BARRIER, "Y" CONNECTOR	
								2,200		622	41100	2,200	2,200	2,200	FT	PORTABLE BARRIER, UNANCHORED	
								60		630	80300	60	60	60	SF	SIGN, TEMPORARY OVERLAY	
	24							24		808	18700	24	24	24	SNMT	DIGITAL SPEED LIMIT (DSL) SIGN ASSEMBLY	
<b>INCIDENTALS</b>																	
								LS		108	10000	LS	LS	LS		CPM PROGRESS SCHEDULE	
								LS		614	11000	LS	LS	LS		MAINTAINING TRAFFIC	
	14							14		619	16011	14	14	14	MNTH	FIELD OFFICE, TYPE B, AS PER PLAN	
								LS		623	10001	LS	LS	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING, AS PER PLAN	
								LS		624	10000	LS	LS	LS		MOBILIZATION	

ADDENDUM	NUMBER	DATE	DESCRIPTION
	△	11/03/2022	REVISED QUANTITIES

CALCULATED MAH CHECKED WAA  
**GENERAL SUMMARY**  
**CUY - 480 - 07 . 14 WB**  
 61  
 225



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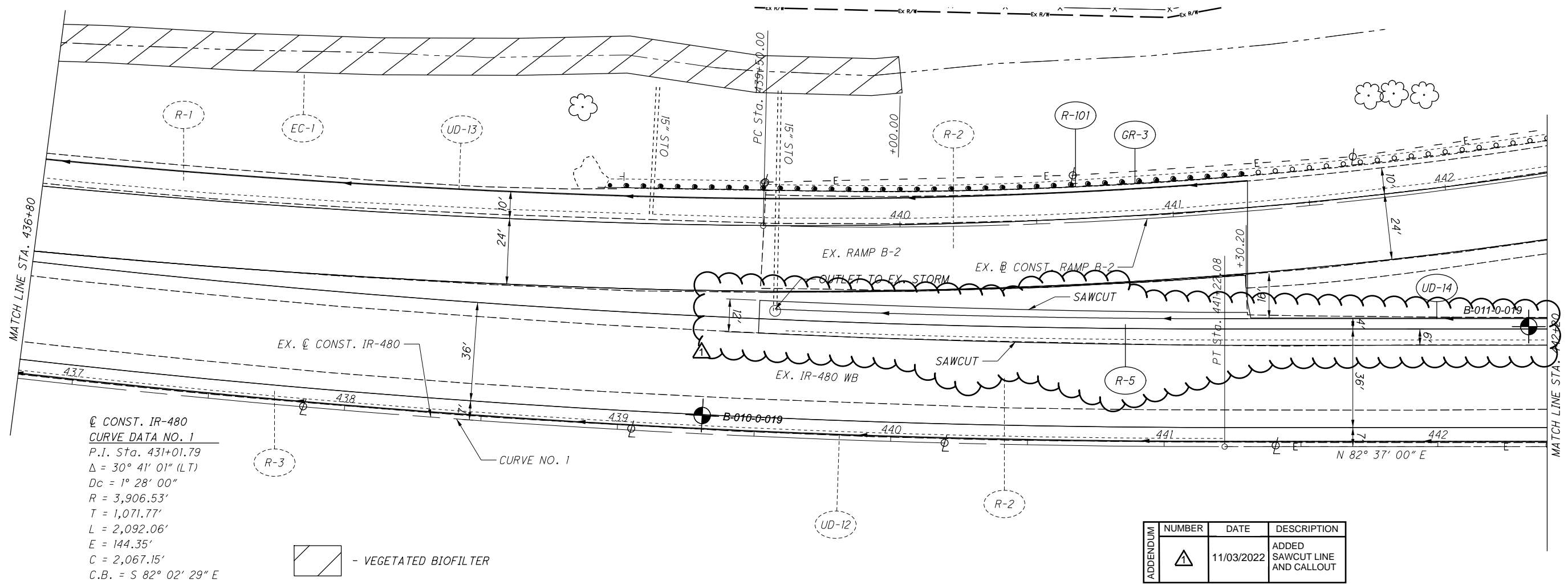
STATION RANGE	TYPICAL SECTION	SIDE	DISTANCE (D)	AVERAGE WIDTH (W)	SURFACE AREA (A) A=DxW/9	CADD GENERATED AREA	206	206	205	304	304	302	442	442	442		407	407								
							CEMENT STABILIZED SUBGRADE, 12 INCHES DEEP	CURING COAT	CEMENT	AGGREGATE BASE, 6"	AGGREGATE BASE, 10"	ASPHALT CONCRETE BASE, P G64-22, (449)	ANTI-SEGREGATION EQUIPMENT	ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (448), 1.75"	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (447), AS PER PLAN		NON-TRACKING TACK COAT	NON-TRACKING TACK COAT								
			FT	FT	SY	SY	SY	SY	TON	CY	CY	CY	CY	CY	CY		GAL	GAL								
																	FULL	PLANING								
TO																										
MAINLINE CUY-480																										
470+95.90		486+98.16	RT	1602.26	10.60	1886.88	1886.88	1886.88	48.82																	
(INCLUDES RAMP B-5)				1602.26	10.43	1857.21					515.89															
				1602.26	9.95	1771.03						418.16														
			WB	1602.26	9.63	1713.58									83.30	71.40		514.07								
			LT	1602.26	37.81	6731.18							607.68	327.21	280.47											1009.68
				1602.26	10.89	1938.50	1938.50	1938.50	50.16	323.08		457.70			94.23	80.77		581.55								
486+98.16		497+72.91	RT	1074.75	11.95	1427.49	1427.49	1427.49	36.94																	
(INCLUDES RAMP T-4)				1074.75	11.79	1407.59					391.00															
				1074.75	11.26	1345.05						317.58														
			WB	1074.75	10.91	1303.37									63.36	54.31		391.01								
			LT	1074.75	52.32	6247.55							504.02	303.70	260.31											937.13
				1074.75	11.74	1401.82	1401.82	1401.82	36.27	236.56		335.12			68.99	58.41		420.55								
497+72.91		504+00.00	RT	627.09	6.53	455.06	455.06	455.06	11.77																	
				627.09	6.36	443.45					123.18															
				627.09	5.87	408.73						96.51														
			WB	627.09	5.53	385.58									18.74	16.07		115.67								
			LT	627.09	34.47	2401.92							216.84	116.76	100.08											360.29
				627.09	13.65	950.79	950.79	950.79	24.60	158.47		224.49			46.22	39.62		285.24								
504+00.00		513+60.00	RT			6120.00							255.00		255.00											918.00

ADDENDUM	NUMBER	DATE	DESCRIPTION
	▲	11/03/2022	REVISED QUANTITIES

**SUBTOTALS** 8060.55 8060.55 208.57 718.10 1030.07 1849.57 1643.53 1122.52 1216.43 2308.09 3225.10  
**TOTALS CARRIED TO GENERAL SUMMARY** 8061 8061 209 1748 1850 1644 1123 1217 5533

CALCULATED MAH CHECKED WAA  
**PAVEMENT SUBSUMMARY**  
**CUY - 480 - 07 . 14 WB**  
 64  
 225

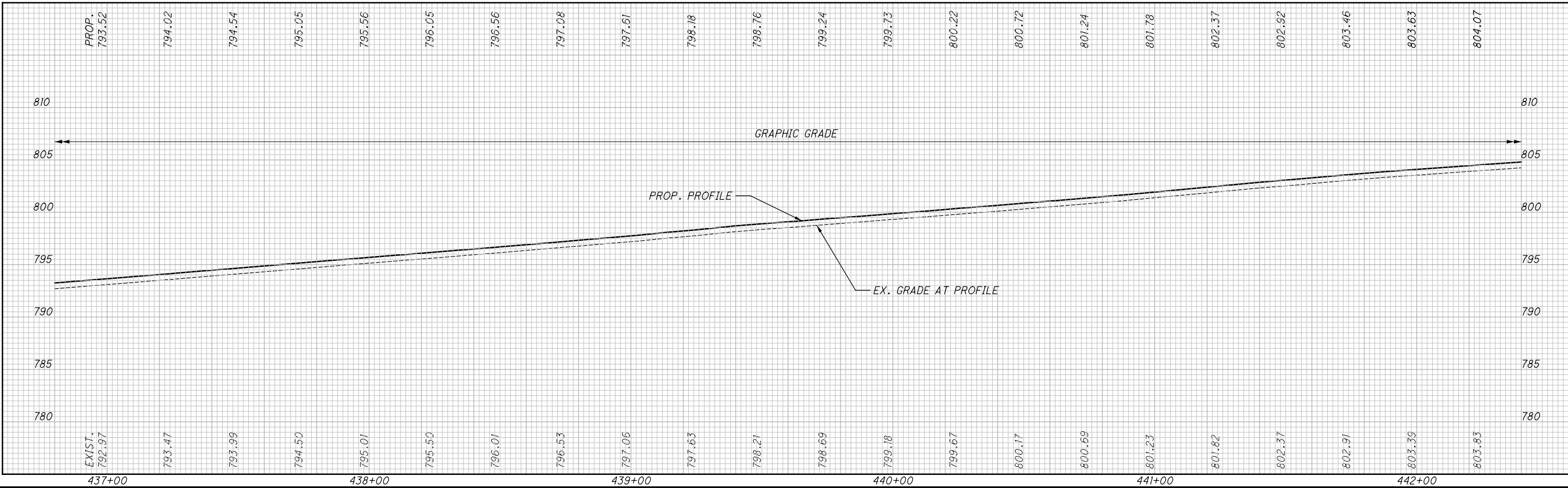
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@ CONST. IR-480  
 CURVE DATA NO. 1  
 P.I. Sta. 431+01.79  
 $\Delta = 30^\circ 41' 01''$  (LT)  
 $Dc = 1^\circ 28' 00''$   
 $R = 3,906.53'$   
 $T = 1,071.77'$   
 $L = 2,092.06'$   
 $E = 144.35'$   
 $C = 2,067.15'$   
 $C.B. = S 82^\circ 02' 29'' E$

- VEGETATED BIOFILTER

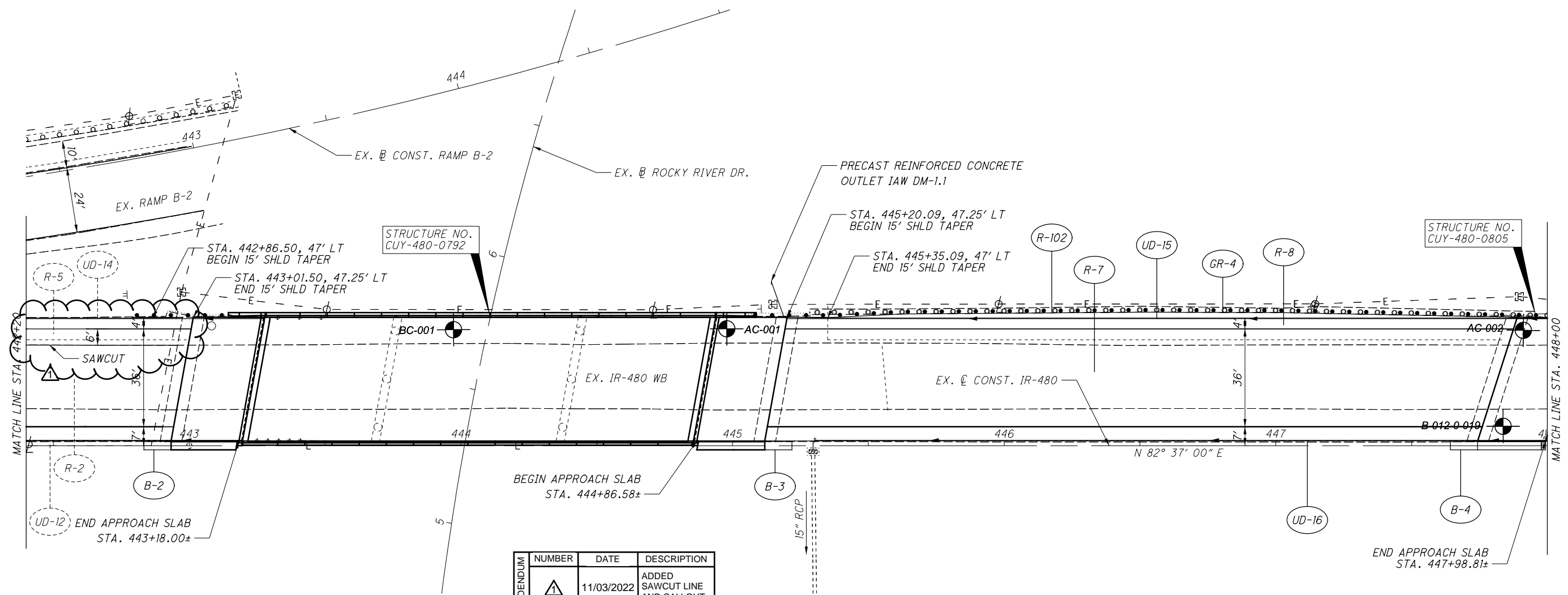
ADDENDUM	NUMBER	DATE	DESCRIPTION
		11/03/2022	ADDED SAWCUT LINE AND CALLOUT



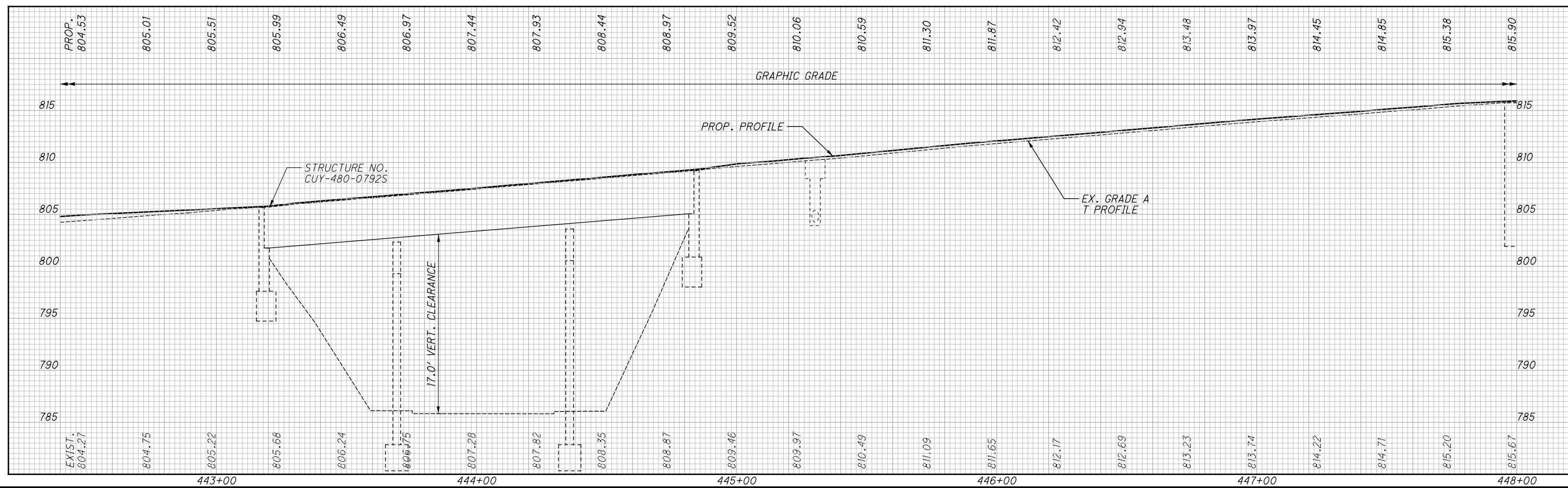
**PLAN AND PROFILE**  
**STA. 436+80 TO STA. 442+40**

**CUY-480-07.14 WB**

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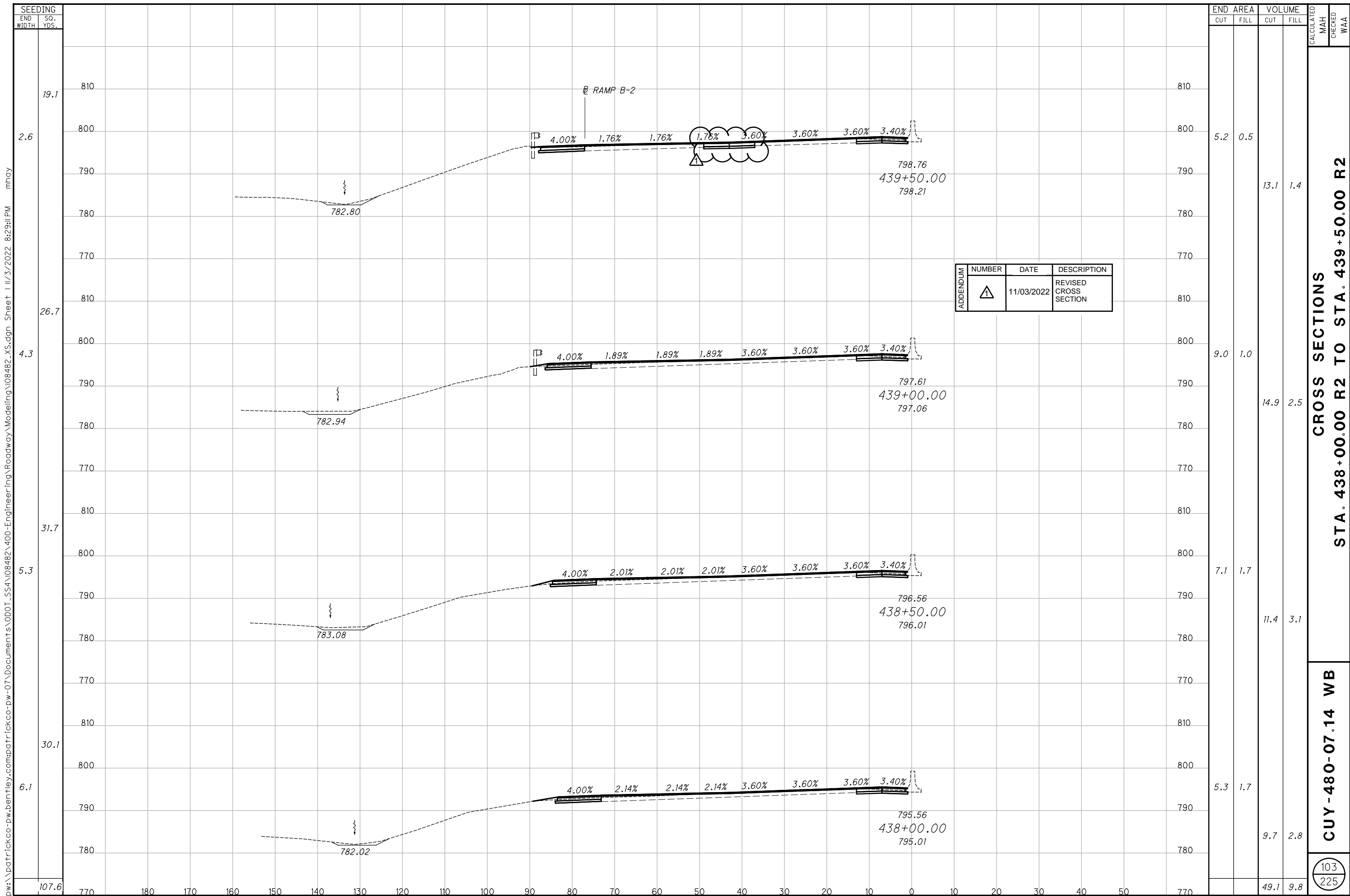
ADDENDUM	NUMBER	DATE	DESCRIPTION
	△	11/03/2022	ADDED SAWCUT LINE AND CALLOUT



CALCULATED  
 DT  
 CHECKED  
 WA

**PLAN AND PROFILE**  
**STA. 442+20 TO STA. 448+00**

**CUY-480-07.14 WB**



APPENDIX	NUMBER	DATE	DESCRIPTION
	△	11/03/2022	REVISED CROSS SECTION

RAMP B-2

4.00% 1.76% 1.76% 1.76% 3.60% 3.60% 3.60% 3.40%

798.76  
439+50.00  
798.21

782.80

4.00% 1.89% 1.89% 1.89% 3.60% 3.60% 3.60% 3.40%

797.61  
439+00.00  
797.06

782.94

4.00% 2.01% 2.01% 2.01% 3.60% 3.60% 3.60% 3.40%

796.56  
438+50.00  
796.01

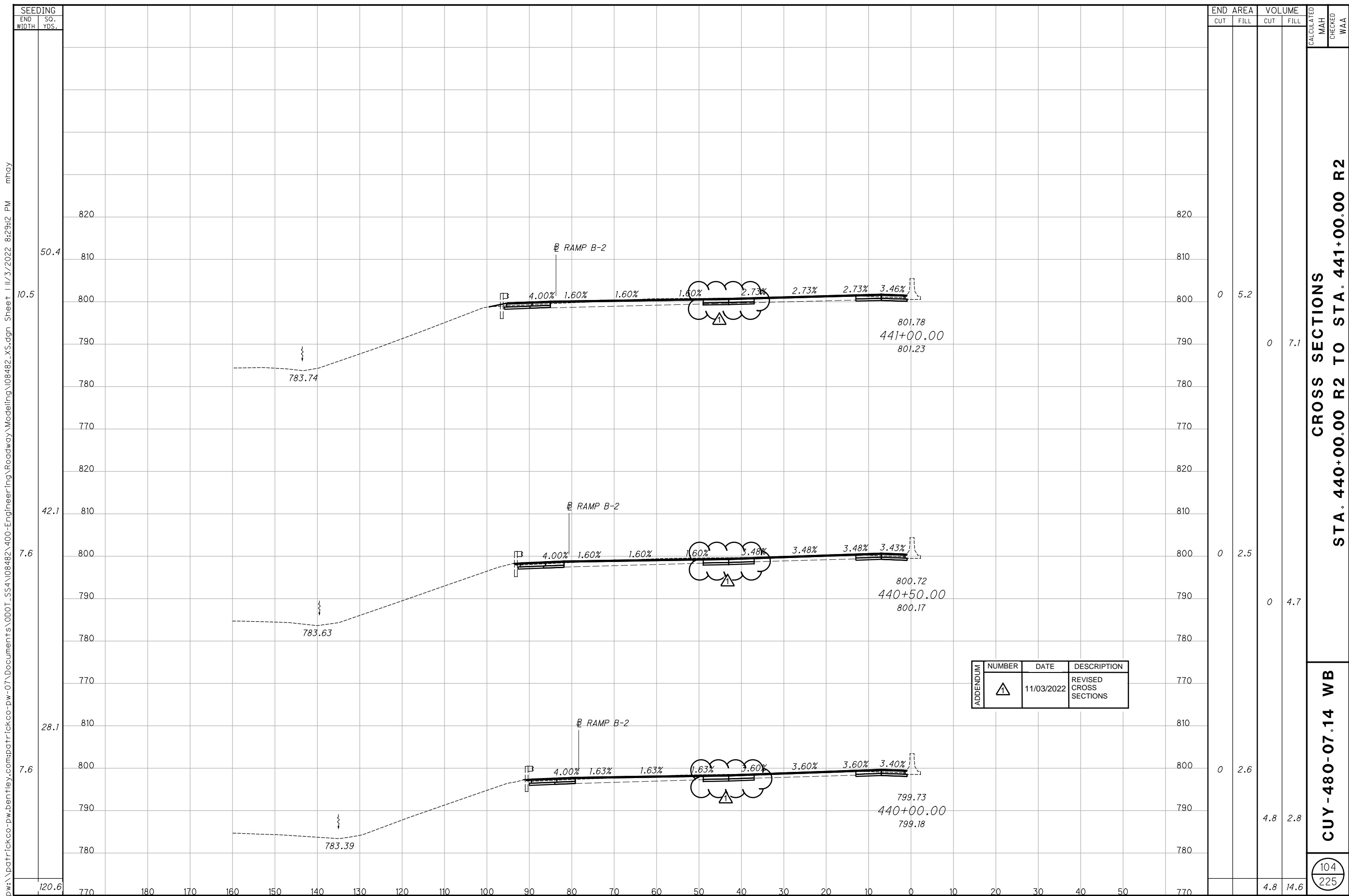
783.08

4.00% 2.14% 2.14% 2.14% 3.60% 3.60% 3.60% 3.40%

795.56  
438+00.00  
795.01

782.02

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**BRIDGE CUY-480-0792 (SFN 1814192)**

MADE BY: JCP DATE: 06/25/21  
 CHECKED BY: SAP DATE: 06/25/21

ITEM	EXTENSION	TOTAL	UNIT	ESTIMATED QUANTITIES (BRIDGE CUY-480-0792)				SEE SHEET NO.	
				DESCRIPTION	ABUT.	PIER	SUPER.		GEN.
202	11201	LS		PORTIONS OF STRUCTURE REMOVED, AS PER PLAN				LS	162/225
202	22901	254	SY	APPROACH SLAB REMOVED, AS PER PLAN				254	13/14
509	10000	11605	LB	EPOXY COATED REINFORCING STEEL	3087		8518		
509	20001	100	LB	REINFORCING STEEL, REPLACEMENT OF EXISTING REINFORCING STEEL, AS PER PLAN				100	162/225
509	30020	4326	FT	NO. 4 GFRP DEFORMED BARS			4326		
510	10000	922	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT	280		642		
511	34445	9	CY	CLASS QC2 CONCRETE, BRIDGE DECK, AS PER PLAN			9		11/14
511	34449	48	CY	CLASS QC2 CONCRETE, BRIDGE DECK (PARAPET), AS PER PLAN			48		9/14
511	44110	13	CY	CLASS QC1 CONCRETE, ABUTMENT NOT INCLUDING FOOTING	13				
512	10100	289	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)			289		
512	74000	119	SY	REMOVAL OF EXISTING COATINGS FROM CONCRETE SURFACES			119		
513	21501	3796	LB	REPLACEMENT OF DETERIORATED END CROSSFRAMES, AS PER PLAN			3796		162/225
516	11210	98	FT	STRUCTURAL EXPANSION JOINT INCLUDING ELASTOMERIC STRIP SEAL			98		
516	13600	113	SF	1" PREFORMED EXPANSION JOINT FILLER			113		
518	12801	8	EACH	SCUPPER, MODIFICATION, AS PER PLAN			8		162/225
526	25000	254	SY	REINFORCED CONCRETE APPROACH SLABS (T=15")				254	
526	90010	92	FT	TYPE A INSTALLATION				92	
625	29941	2	EACH	BARRIER JUNCTION BOX, AS PER PLAN			2		162/225
847	10200	838	SY	SUPERPLASTICIZED DENSE CONCRETE OVERLAY (T=1.75")			838		
847	20201	67	CY	SUPERPLASTICIZED DENSE CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY, AS PER PLAN			67		4/14
847	30000	LS		TEST SLAB				LS	
847	30400	841	SY	EXISTING CONCRETE OVERLAY REMOVED (T=2.5")				841	
847	50000	84	SY	HAND CHIPPING				84	

△

ADDENDUM	NUMBER	DATE	DESCRIPTION
	△	11/03/22	REVISED QUANTITIES

**ESTIMATED QUANTITIES**  
 BRIDGE NO. CUY-480-0792  
 IR-480 WB OVER ROCKY RIVER DRIVE

**CUY-480-07.14 WB**  
 PID No. 108482

DESIGN AGENCY  
 PATRICK ENGINEERING INC.  
 3650 OLENTANGY RIVER ROAD  
 COLUMBUS, OHIO 43214

REVIEWED DATE 8/20/21  
 BMG  
 STRUCTURE FILE NUMBER 1814192

DRAWN JGP  
 REVISED

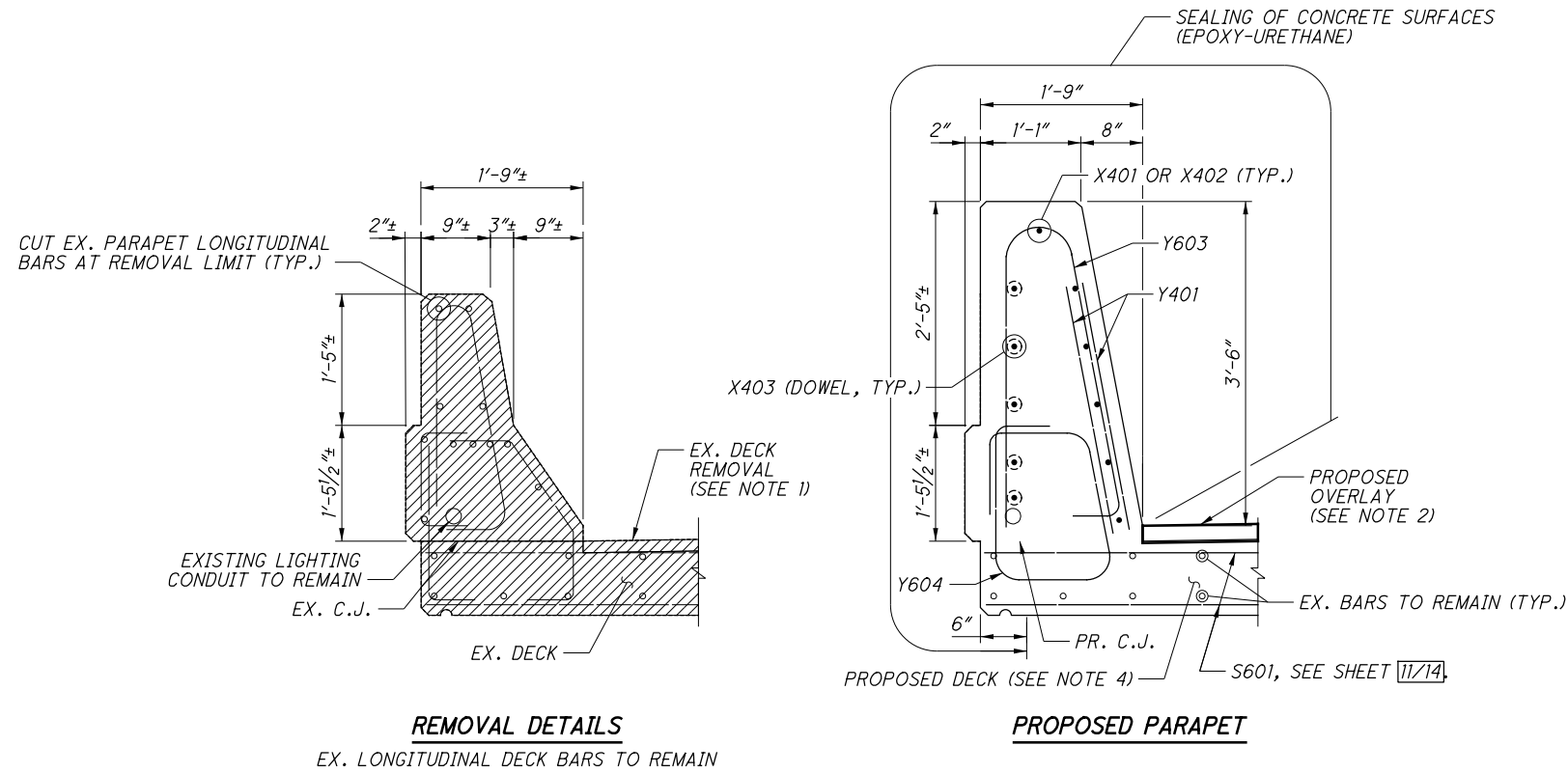
DESIGNED JH  
 CHECKED SAP

2 / 14

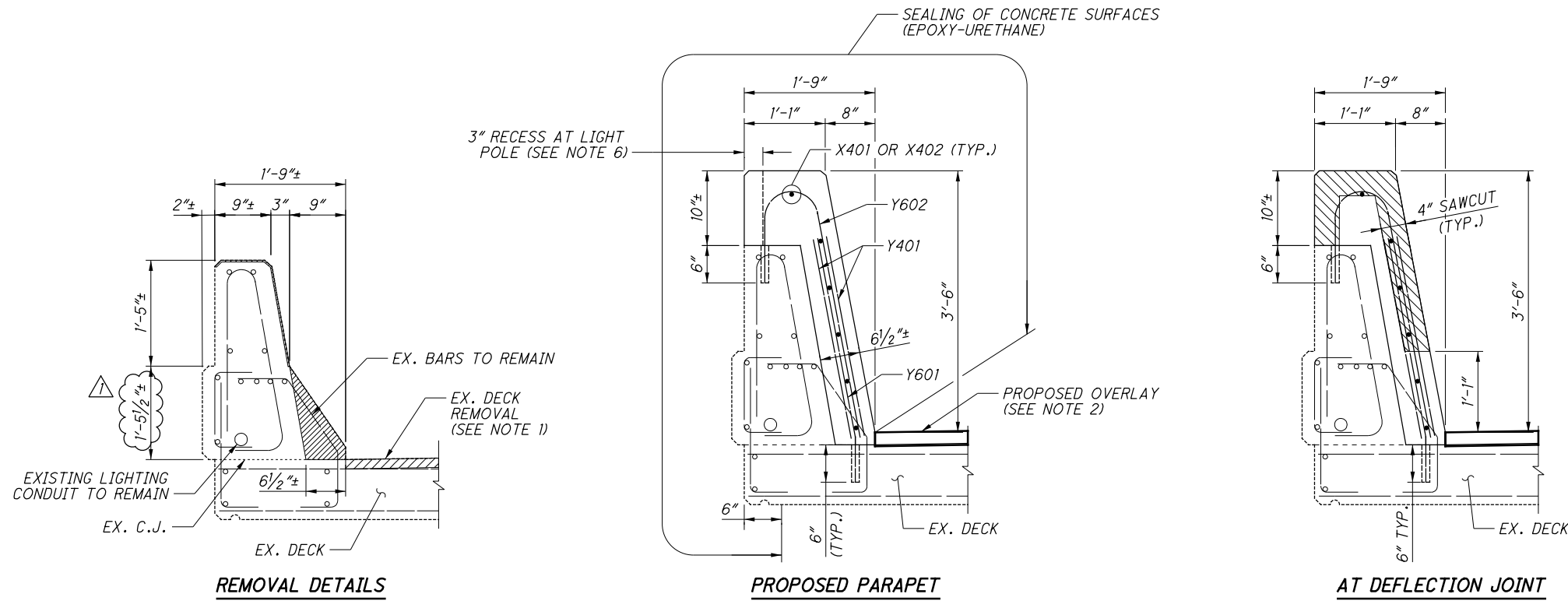
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**SECTION D-D**  
(EXTERIOR PARAPET DETAILS - FULL REMOVAL SECTION)  
(TYP. FOR BOTH ENDS)



**SECTION C-C**  
(EXTERIOR PARAPET DETAILS - REFACED SECTION)

**NOTES:**

1. SEE SHEET 4/14 FOR EXISTING DECK WEARING SURFACE REMOVAL DETAILS.
2. SEE SHEET 5/14 FOR NEW DECK OVERLAY THICKNESS DETAILS.
3. SEE SHEET 6/14 FOR LOCATION OF SECTIONS C-C AND D-D.
4. SEE SHEET 11/14 FOR PROPOSED DECK REINFORCING STEEL DETAILS.
5. LIGHT POLE AND PILASTER (AT STA. 443+50.64± AND 444+70.73±) SHALL NOT BE DISTURBED DURING CONSTRUCTION. BUILD A 3" RECESS AT THE TOP OF THE BUILD-BACK PARAPET IN THE PILASTER LIMIT (4'-6"± LONG).

**LEGEND:**

- REMOVAL
- SAWCUT

ADDENDUM	NUMBER	DATE	DESCRIPTION
▲		11/03/22	REVISED ANNOTATION