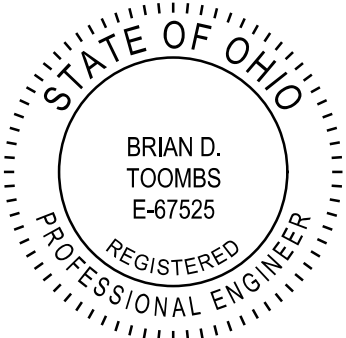
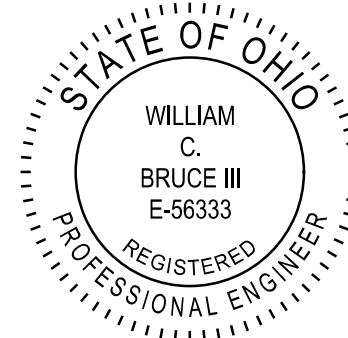
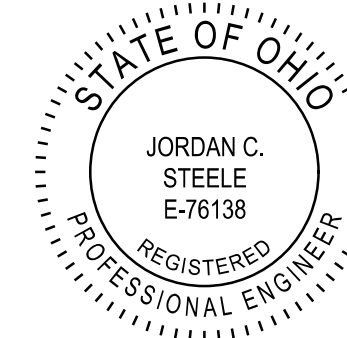
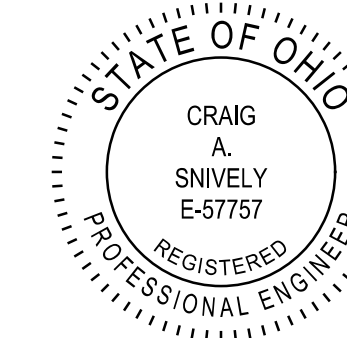
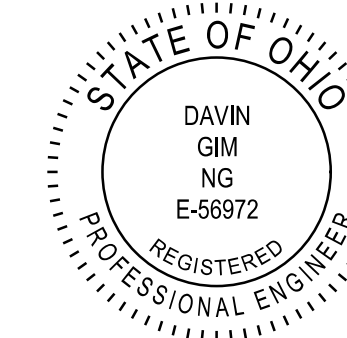
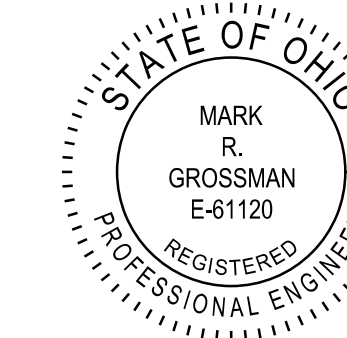


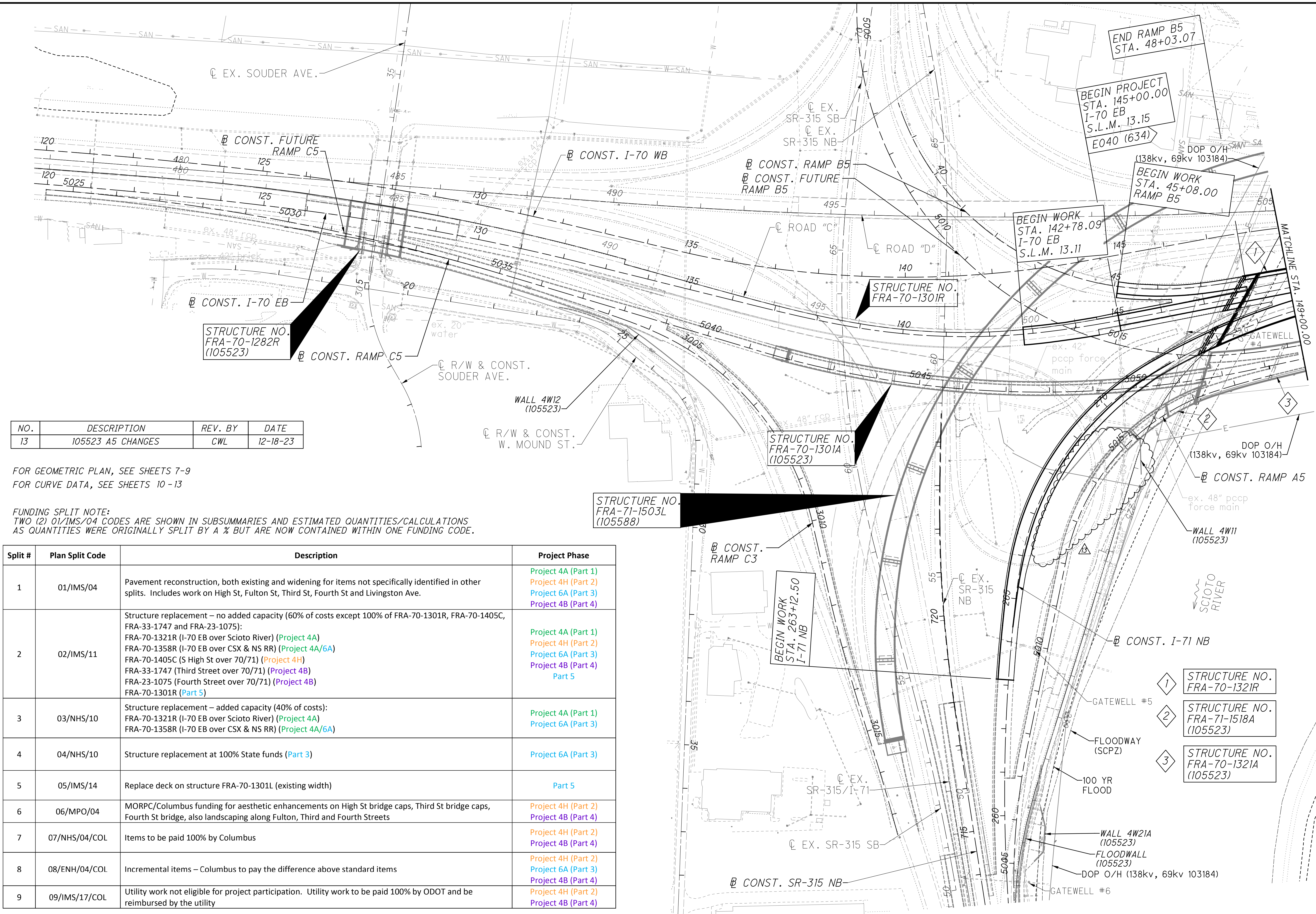
NO.	DESCRIPTION	REV. BY	DATE
8	ADDED SHEET	CWL	11-25-23
13	ADDED SHEET	CWL	12-17-23

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FOR SHEETS 54 - 140	FOR SHEETS 340 - 341 , 343 - 360	FOR SHEETS 401 - 413	FOR SHEETS 525 - 571	FOR SHEETS 322 - 339 , 342 , 414 - 524	FOR ENTIRE PLAN EXCEPT SHEETS OTHERWISE NOTED
					



NO.	DESCRIPTION	REV. BY	DATE
13	105523 A5 CHANGES	CWL	12-18-23

FOR GEOMETRIC PLAN, SEE SHEETS 7-9
FOR CURVE DATA, SEE SHEETS 10-13

FUNDING SPLIT NOTE:
TWO (2) 01/IMS/04 CODES ARE SHOWN IN SUBSUMMARIES AND ESTIMATED QUANTITIES/CALCULATIONS AS QUANTITIES WERE ORIGINALLY SPLIT BY A % BUT ARE NOW CONTAINED WITHIN ONE FUNDING CODE.

Split #	Plan Split Code	Description	Project Phase
1	01/IMS/04	Pavement reconstruction, both existing and widening for items not specifically identified in other splits. Includes work on High St, Fulton St, Third St, Fourth St and Livingston Ave.	Project 4A (Part 1) Project 4H (Part 2) Project 6A (Part 3) Project 4B (Part 4)
2	02/IMS/11	Structure replacement – no added capacity (60% of costs except 100% of FRA-70-1301R, FRA-70-1405C, FRA-33-1747 and FRA-23-1075): FRA-70-1321R (I-70 EB over Scioto River) (Project 4A) FRA-70-1358R (I-70 EB over CSX & NS RR) (Project 4A/6A) FRA-70-1405C (S High St over 70/71) (Project 4H) FRA-33-1747 (Third Street over 70/71) (Project 4B) FRA-23-1075 (Fourth Street over 70/71) (Project 4B) FRA-70-1301R (Part 5)	Project 4A (Part 1) Project 4H (Part 2) Project 6A (Part 3) Project 4B (Part 4) Part 5
3	03/NHS/10	Structure replacement – added capacity (40% of costs): FRA-70-1321R (I-70 EB over Scioto River) (Project 4A) FRA-70-1358R (I-70 EB over CSX & NS RR) (Project 4A/6A)	Project 4A (Part 1) Project 6A (Part 3)
4	04/NHS/10	Structure replacement at 100% State funds (Part 3)	Project 6A (Part 3)
5	05/IMS/14	Replace deck on structure FRA-70-1301L (existing width)	Part 5
6	06/MPO/04	MORPC/Columbus funding for aesthetic enhancements on High St bridge caps, Third St bridge caps, Fourth St bridge, also landscaping along Fulton, Third and Fourth Streets	Project 4H (Part 2) Project 4B (Part 4)
7	07/NHS/04/COL	Items to be paid 100% by Columbus	Project 4H (Part 2) Project 4B (Part 4)
8	08/ENH/04/COL	Incremental items – Columbus to pay the difference above standard items	Project 4H (Part 2) Project 6A (Part 3) Project 4B (Part 4)
9	09/IMS/17/COL	Utility work not eligible for project participation. Utility work to be paid 100% by ODOT and be reimbursed by the utility	Project 4H (Part 2) Project 4B (Part 4)

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ITEM 614 - MAINTAINING TRAFFIC

1. CONSTRUCTION OPERATIONS SHALL NOT BEGIN UNTIL ALL TRAFFIC CONTROL IS IN PLACE AND APPROVED BY ODOT PERSONNEL. THE PROJECT ENGINEER SHALL APPROVE ALL TEMPORARY TRAFFIC CONTROL DEVICES FOR CONDITION AND LOCATION BEFORE THE CONTRACTOR WILL BE ALLOWED TO BEGIN WORK. IF THE CONTRACTOR DOES NOT COMPLY WITH THE STANDARDS, HIS PERMIT SHALL BE REVOKED AND ALL WORK SHALL BE TERMINATED.

2. ALL SIGNS, BARRICADES, SIGN SUPPORTS, DRUMS, FLAGGERS, WORK ZONE TRAFFIC SIGNALS AND INCIDENTALS FOR TRAFFIC CONTROL SHALL BE FURNISHED, ERECTED, MAINTAINED AND REMOVED BY THE CONTRACTOR IN CONFORMANCE WITH THE MOST RECENT REVISIONS, CURRENT EDITION OF THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS (OMUTCD). ALL SIGNS USED FOR THE MAINTENANCE OF TRAFFIC SHALL BE NEW OR LIKE NEW CONDITION SUBJECT TO THE APPROVAL OF THE ENGINEER. DEVICES USED TO MAINTAIN TRAFFIC SHALL BE REMOVED IMMEDIATELY AFTER THE TERMINATION OF SAID WORK. PAYMENT SHALL BE INCLUDED IN THE LUMP SUM BID FOR ITEM 614 MAINTAINING TRAFFIC.

3. FOR WORK WHICH IS CONFINED TO THE SHOULDER, TRAFFIC CONTROL SHALL CONFORM TO FIGURES TA-1, TA-3, TA-4, AND TA-6 OF THE OMUTCD AND SCD MT-95.45. IF THE CONTRACTOR FAILS TO COMPLY WITH THE PROVISIONS FOR TRAFFIC CONTROL AS SET FORTH IN THESE PLANS AND PROVISIONS OF THE OMUTCD AND FAILURE RESULTS IN A CONDITION AT THE WORK SITE WHICH IS UNSAFE FOR TRAFFIC, THE ENGINEER HAS THE AUTHORITY TO SUSPEND WORK UNTIL THE CONTRACTOR COMPLIES WITH THE NECESSARY REQUIREMENTS.

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH CMS 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 SEPERATELY ITEMIZED IN THE PLAN.

NOTIFICATION OF CONSTRUCTION INITIATION

AT LEAST FOURTEEN DAYS PRIOR TO STARTING INITIAL CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL ADVISE THE DISTRICT OFFICE OF COMMUNICATIONS VIA EMAIL AT D06.PIO@DOT.OHIO.GOV, THE DISTRICT WORK ZONE TRAFFIC MANAGER VIA EMAIL AT D06.MOT@DOT.OHIO.GOV AND THE CENTRAL OFFICE SPECIAL HAUL PERMITS SECTION VIA EMAIL AT HAULING.PERMITS@DOT.OHIO.GOV OF THE ANTICIPATED START DATE OF ANY CONSTRUCTION ACTIVITIES INCLUDING BUT NOT LIMITED TO THE PLACING OF WORK ZONE SIGNS. THE NOTIFICATION SHALL ALSO INCLUDE THE PROJECT NUMBER, PID, NAME AND PHONE NUMBER OF THE CONTRACTOR, A POINT OF CONTACT AND THE ANTICIPATED IMPACT ON TRAFFIC. THE CONTRACTOR WILL IMMEDIATELY INFORM THE DISTRICT OFFICE OF COMMUNICATIONS AND THE DISTRICT WORK ZONE TRAFFIC MANAGER OF ANY AND ALL DELAYS AND/OR CHANGES REGARDING THE CONSTRUCTION INITIATION DATE.

NOTIFICATION OF TRAFFIC RESTRICTIONS

THROUGHOUT THE DURATION OF THE PROJECT, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IN WRITING OF ALL TRAFFIC RESTRICTIONS AND UPCOMING MAINTENANCE OF TRAFFIC CHANGES. THE CONTRACTOR SHALL ENSURE THE WRITTEN NOTIFICATION IS SUBMITTED IN A TIMELY MANNER TO ALLOW THE PROJECT ENGINEER TO MEET THE REQUIRED TIME FRAMES SET FORTH IN THE TABLE BELOW TO INFORM THE SPECIAL HAULING PERMITS SECTION (HAULING.PERMITS@DOT.OHIO.GOV) AND THE DISTRICT PUBLIC INFORMATION OFFICE (PIO). 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	NOTIFICATION DUE TO PERMITS AND PIO
RAMP AND ROAD CLOSURES	>= 2 WEEKS	21 CALENDAR DAYS PRIOR TO CLOSURE
	> 12 HOURS AND < 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 UNFORSEEN CONDITIONS NOT SPECIFIED IN THE PLANS REQUIRING TRAFFIC RESTRICTIONS SHALL ALSO BE REPORTED TO THE PROJECT ENGINEER USING THE NOTIFICATION TIME TABLE.

PERMITTED LANE CLOSURES ON FREEWAYS, RAMPS AND CITY STREETS

THE EXISTING NUMBER OF LANES IN EACH DIRECTION ON ALL FREEWAYS SHALL BE MAINTAINED IN ACCORDANCE WITH THE LANE VALUE CONTRACT TABLE FOR EACH LOCATION UNLESS OTHERWISE SHOWN IN THE PLANS. THE EXISTING NUMBER OF LANES IN EACH DIRECTION ON ALL RAMPS AND CITY STREETS SHALL BE MAINTAINED FOR EACH LOCATION UNLESS OTHERWISE SHOWN IN THE PLANS.

IT MAY BE NECESSARY TO EXTEND THE ADVANCE WARNING, TAPER AND BUFFER ZONES BEYOND THE MINIMUM DISTANCES SHOWN ON THE STANDARD DRAWINGS DUE TO HORIZONTAL ALIGNMENT, VERTICAL ALIGNMENT, RAMP LOCATIONS, OR OTHER SIGHT OBSTRUCTIONS. TAPERS SHOULD BE PLACED IN TANGENT SECTIONS WHENEVER POSSIBLE.

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

ALL WORK ZONE AND TRAFFIC CONTROL DEVICES SHALL BE FURNISHED, ERECTED, MAINTAINED AND REMOVED BY THE CONTRACTOR IN ACCORDANCE WITH CMS 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, APPLICABLE STANDARD DRAWINGS, AND THE OHIO MANUAL OF TRAFFIC CONTROL DEVICES (CURRENT EDITION).

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

COORDINATION WITH ADJACENT PROJECTS

THE CONTRACTOR SHALL COORDINATE WORK WITH ODOT AND THE CONTRACTORS ON THE ADJACENT PROJECTS.

FRA-70/71-12.68/14.86 PROJECT 4R PART 1 (PID 105523)
FRA-71-14.36 PROJECT 6R PART 2 (PID 105523)

COORDINATION SHALL BE MADE TO PREVENT CONFLICTING ADVANCE WARNING SIGNS, CONFLICTING DETOUR ROUTES, OVERLAPING/CONFLICTING LANE CLOSURES, AND TO ENSURE THAT A MINIMUM DISTANCE OF 2 MILES BETWEEN ADJACENT LANE CLOSURES IS MAINTAINED. THIS IS NOT AN EXHAUSTIVE LIST OF COORDINATION ITEMS THAT MAY NEED TO BE RESOLVED BETWEEN PROJECTS. THE DEPARTMENT RESERVES THE RIGHT TO DECIDE WHICH PROJECT'S ACTIVITIES TAKE PRECEDENCE. PROJECTS THAT HAVE ACTIVITIES DELAYED DUE TO CONFLICTS WILL CONSIDER THIS AN EXCUSABLE, COMPENSABLE DELAY PER 108.06.D. ON PROJECTS THAT HAVE ACTIVITIES DELAYED DUE TO CONFLICTS WHERE THE CONTRACTOR FAILED TO MEET THE NOTIFICATION REQUIREMENTS, THE DELAYS SHALL NOT BE CONSIDERED EXCUSABLE OR COMPENSABLE, NOR SHALL THE COMPLETION DATE BE EXTENDED.

ATTENDANCE AT DEPARTMENT ORDERED TRAFFIC COORDINATION MEETINGS BETWEEN ADJACENT PROJECTS SHALL BE CONSIDERED MANDATORY FOR EACH PROJECT'S SUPERINTENDENT AND WORKSITE TRAFFIC SUPERVISOR (WTS), AND INCIDENTAL TO THE LUMP SUM MAINTENANCE OF TRAFFIC PAYMENT ITEM

NOTICE OF CLOSURE SIGN

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

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

ITEM	NOTICE OF CLOSURE SIGN TIME TABLE	
	DURATION OF CLOSURE	SIGN DISPLAYED TO PUBLIC
RAMP AND ROAD CLOSURES	>= 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	> 12 HOURS AND < 2 WEEKS	7 CALENDAR DAYS PRIOR TO CLOSURE
	<= 12 HOURS	2 BUSINESS DAYS PRIOR TO CLOSURE

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

NO.	DESCRIPTION	REV. BY	DATE
9	UPDATED NOTES, ADDED TABLE	RPD	12-04-2023
11	UPDATED TABLE	RPD	12-07-2023
12	UPDATED TABLE	RPD	12-14-2023

PRE-MAINTENANCE OF TRAFFIC MEETING

A PRE-MAINTENANCE OF TRAFFIC MEETING SHALL BE HELD (MINIMUM OF 10 WORK DAYS) PRIOR TO WORK BEGINNING OR ANY CHANGE OF PHASING. THIS MEETING SHALL INCLUDE THE DISTRICT WORK ZONE TRAFFIC MANAGER (d06.mot@dot.ohio.gov) AS WELL AS THE CONTRACTOR AND ANY OF HIS SUB-CONTRACTORS INVOLVED WITH TEMPORARY TRAFFIC CONTROL. FOR COLUMBUS SECTIONS OF ROADWAY, ALSO INCLUDE THE TEMPORARY CONTROL COORDINATOR (614-645-6269 OR 614-645-5845) FROM THE CITY OF COLUMBUS TRANSPORTATION DIVISION.

WEEKLY MAINTENANCE OF TRAFFIC MEETING

AFTER THE INITIAL PRE-MAINTENANCE OF TRAFFIC MEETING, THE CONTRACTOR SHALL MEET WITH THE PROJECT ENGINEER ON A WEEKLY BASIS TO GO OVER A DETAILED MAINTENANCE OF TRAFFIC REPORT OF AT LEAST 7 CALENDAR DAYS. THIS MEETING SHOULD BE HELD ON THE SAME DAY AND TIME OF EACH WEEK.

THE CONTRACTOR WILL PROVIDE TO THE PROJECT ENGINEER A WRITTEN DETAIL OF THE INFORMATION REQUIRED BY THE NOTIFICATION OF TRAFFIC RESTRICTIONS NOTE PRIOR TO THE MEETING.

IN ADDITION TO THE DETAILED MAINTENANCE OF TRAFFIC REPORT THE CONTRACTOR SHALL GIVE A GENERAL LOOK AHEAD OF AN ADDITIONAL 2 WEEKS OF UPCOMING WORK ACTIVITIES. THIS WILL INCLUDE ANY NOTIFICATION REQUIREMENTS FOR RESTRICTIONS THAT HAVE A DURATION GREATER THAN 12 HOURS.

ITEM 614 - MAINTAINING TRAFFIC (ESTIMATED QUANTITIES)

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

ITEM 410, TRAFFIC COMPACTED SURFACE, TYPE A OR B
200 CU. YD.

MAINTENANCE OF FIRE LANE

THE FIRE LANE JUST SOUTH OF I-70/I-71 BETWEEN SHORT STREET AND SECOND STREET SHALL NOT BE UTILIZED FOR CONSTRUCTION EQUIPMENT, ACTIVITIES, OR CONSTRUCTION TRAFFIC. IT SHALL REMAIN CLEAR FOR FIRE DEPARTMENT USE AT ALL TIMES.

WORK APPROVAL

IF THE CONTRACTOR WANTS TO PERFORM ANY WORK OUTSIDE OF THE CURRENT MOT PHASE THIS WILL REQUIRE THE PROJECT ENGINEER'S APPROVAL.

THE CONTRACTOR SHALL PROVIDE TO THE PROJECT ENGINEER A WRITTEN DETAIL OF THE INTENDED WORK TO BE ADDED TO THE CURRENT MOT PHASE FOR APPROVAL. THE INTENDED WORK SHALL NOT BEGIN UNTIL WRITTEN APPROVAL IS PROVIDED.

BRIDGE DESCRIPTION	STRUCTURE #	WORK TYPE	DAYS	CLOSURE/DETOUR TIME ***	# TIMES ALLOWED	DETOUR DETAILS ON SHEETS		
HIGH ST. BRIDGE WESTERN HALF	FRA-70-1405C	DEMOLITION	WEEKEND *	FRI 10PM - MON 5AM	1 **	71 - 74		
HIGH ST. BRIDGE WESTERN HALF IN CONJUNCTION WITH WEST CAP		BEAM ERECTION	WEEKEND *	FRI 10PM - MON 5AM	2 **			
HIGH ST. BRIDGE WESTERN HALF		DECK POUR	NIGHTTIME CLOSURE	FRI 10PM - MON 5AM	1			
HIGH ST. BRIDGE WEST CAP		DECK POUR	NIGHTTIME CLOSURE	FRI 10PM - MON 5AM	1			
HIGH ST. BRIDGE EASTERN HALF		DEMOLITION	WEEKEND *	FRI 10PM - MON 5AM	1 **			
HIGH ST. BRIDGE EASTERN HALF IN CONJUNCTION WITH EAST CAP		BEAM ERECTION	WEEKEND *	FRI 10PM - MON 5AM	2 **			
HIGH ST. BRIDGE EASTERN HALF		DECK POUR	NIGHTTIME CLOSURE	FRI 10PM - MON 5AM	1			
HIGH ST. BRIDGE EAST CAP		DECK POUR	NIGHTTIME CLOSURE	FRI 10PM - MON 5AM	1			
*		THE CONTRACTOR MAY CHOOSE TO COMPLETE THIS WORK OVER THE COURSE OF NIGHTLY CLOSURES (MONDAY THRU SUNDAY) IN LIEU OF A WEEKEND CLOSURE. NIGHTLY CLOSURES SHALL TAKE PLACE BETWEEN 10PM AND 5AM						
**		IF WORK IS PERFORMED VIA NIGHTLY CLOSURES, THE NUMBER OF CLOSURES SHALL BE APPROVED BY THE ENGINEER. IT IS THE INTENT TO MINIMIZE THE IMPACT TO THE TRAVELING PUBLIC.						
***		DISINCENTIVES WILL BE ASSESSED PER LANE PER MINUTE AT THE RATES SHOWN IN THE LANE VALUE CONTRACT TABLE FOR ANY CLOSURE OUTSIDE OF THE CLOSURE/DETOUR TIMES						

SHEET NUMBER					PARTICIPATION					ITEM	ITEM EXT.	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
P1/158	P2/37	P3/188	P4/152	P5/13	01/IMS/04	02/IMS/11	05/IMS/14	06/MPO/04	07/NHS/04/COL						
LS	LS		LS	LS							201	11000	LS	ROADWAY CLEARING AND GRUBBING	P1,P2,P4
32990	3886	21016	43428		4	101320					202	20010	4	HEADWALL REMOVED	
	9050	3016	18064		30130						202	23000	101320	PAVEMENT REMOVED	
	9				9						202	30000	30130	WALK REMOVED	
											202	30200	9	STEPS REMOVED	
		114			114						202	30600	114	CONCRETE MEDIAN REMOVED	
1406		5525	3687		10618						202	30700	10618	CONCRETE BARRIER REMOVED	
175					175						202	30701	175	CONCRETE BARRIER REMOVED, AS PER PLAN "4A"	P1
		1280			1280						202	30701	1280	CONCRETE BARRIER REMOVED, AS PER PLAN "6A"	P3
2870	1001	5724	4809	2230	14404	1820	410				202	32000	16634	CURB REMOVED	
		271			271						202	32500	271	CURB AND GUTTER REMOVED	
49					49						202	32600	49	GUTTER REMOVED	
		655			655						202	32800	655	CONCRETE SLOPE PROTECTION REMOVED	
835	60	2324	2381	54	5600	54					202	35100	5654	PIPE REMOVED, 24" AND UNDER	
32					32						202	35201	32	PIPE REMOVED, OVER 24", AS PER PLAN	P1
4722		5283	1745	1647	11750	1222	425				202	38000	13397	GUARDRAIL REMOVED	
1		4			5						202	47800	5	IMPACT ATTENUATOR REMOVED	
4	2	9	1	3	14	3					202	58000	14	MANHOLE REMOVED	
13		10	13		38						202	58100	41	CATCH BASIN REMOVED	
4		33	13		50						202	58200	50	INLET REMOVED	
		1			1						202	58201	1	INLET REMOVED, AS PER PLAN	P3
			1		1						202	58400	1	INLET ABANDONED	
			3		3						202	58401	3	INLET ABANDONED, AS PER PLAN	P4
1			1		2						202	58500	2	CATCH BASIN ABANDONED	
			4		4						202	58501	4	CATCH BASIN ABANDONED, AS PER PLAN	P4
		323			323						SPECIAL	20270000	323	FILL AND PLUG EXISTING CONDUIT, 12"	P4
162		50			212						SPECIAL	20270000	212	FILL AND PLUG EXISTING CONDUIT, 15"	P1,P4
126					126						SPECIAL	20270000	126	FILL AND PLUG EXISTING CONDUIT, 18"	P1
1047	428	1156	1222		3853						202	75000	3853	FENCE REMOVED	
2		1			3						202	75250	3	GATE REMOVED	
		1			1						202	75255	1	GATE REMOVED FOR REUSE, AS PER PLAN	P3
			4		4						202	75610	4	VALVE BOX REMOVED	
		3			9						202	98100	9	REMOVAL MISC.: TRASH RECEPTACLES	P2,P4
		2			2						202	98100	2	REMOVAL MISC.: INSPECTION WELL	P3
1070		1272	428		2770						202	98200	2770	REMOVAL MISC.: PORTABLE BARRIER	P1,P3,P4
1062					1062						202	98200	1062	REMOVAL MISC.: PORTABLE BARRIER WITH VANDAL FENCE	P1
	303				303						202	98200	303	REMOVAL MISC.: CURB REMOVED FOR STORAGE	P2
		100			100						202	98200	100	REMOVAL MISC.: MISC CONDUIT	P3
		101			101						202	98200	101	REMOVAL MISC.: TRENCH DRAIN	P3
	4845		307		5152						202	98400	5152	REMOVAL MISC.: BRICK PAVERS REMOVED	P2,P4
25365	623	44689	44578	1149	115255	953	196				203	10000	116404	EXCAVATION	
35175	7648	94130	45546	6658	182499	6658					203	20000	189157	EMBANKMENT	
3977		24962		5561	28939	5561					203	20001	34500	EMBANKMENT, AS PER PLAN	P1,P3,P5
3360					3360						203	35000	3360	GRANULAR EMBANKMENT	
4592					4592						203	35001	4592	GRANULAR EMBANKMENT, AS PER PLAN	P1
		2806			2806						203	35110	2806	GRANULAR MATERIAL, TYPE B	
24917	4558	26743	6606		62576			248			204	10000	62824	SUBGRADE COMPACTION	
250	975		1923		3148						204	13000	3148	EXCAVATION OF SUBGRADE	
		172			172						204	13001	172	EXCAVATION OF SUBGRADE, AS PER PLAN	P3
250	975		1923		3148						204	30010	3148	GRANULAR MATERIAL, TYPE B	
28	4	12	32	4	74	4		2			204	45000	80	PROOF ROLLING	
		1			1						204	45001	1	PROOF ROLLING, AS PER PLAN	P3
500	3868		6338		10501			205			204	50000	10706	GEOTEXTILE FABRIC	
		1032			1032						204	50001	1032	GEOTEXTILE FABRIC, AS PER PLAN	P3
500	3868		6338		10501			205			204	51000	10706	GEOGRID	

NO.	DESCRIPTION	REV. BY	DATE
1	REVISED PART 5	CWL	10-2-23
3	REVISED PART 3	CWL	10-23-23
4	REVISED PART 1	CWL	10-30-23
7	REVISED PART 3	CWL	11-20-23
8	REVISED PART 1	CWL	11-20-23
9	REVISED PART 1	CWL	12-2-23
13	REVISED PART 1	CWL	12-17-23

BIG BUILD MASTER GENERAL SUMMARY

FRA-70-13.11

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SHEET NUMBER							PARTICIPATION					ITEM	ITEM EXT.	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.	CALCULATED CJC	CHECKED CWL
P1/160	P2/38	P3/190	P4/154	P4/155	P5/13	01/IMS/04	02/IMS/11												
DRAINAGE (CONTINUED)																			
2						2					611	98634	2	EACH	CATCH BASIN RECONSTRUCTED TO GRADE				
		1				1					611	98804	1	EACH	INLET, NO. 3B50				
4						4					611	98840	4	EACH	INLET, NO. 2-A-6				
1						1					611	98870	1	EACH	INLET, NO. 2-A-12				
1						1					611	98880	1	EACH	INLET, NO. 2-A-14				
		1				1					611	99094	1	EACH	INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE B				
			3			3					611	99110	3	EACH	INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE C1				
2				4		2					611	99111	2	EACH	INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE C1, AS PER PLAN "4A"				P1
				4		4					611	99111	4	EACH	INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE C1, AS PER PLAN "4B"				P4
5		31	4		4	40	4				611	99114	44	EACH	INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE D				
		1				1					611	99115	1	EACH	INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE D, AS PER PLAN "6A"				P3
			8			8					611	99115	8	EACH	INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE D, AS PER PLAN "4B"				P4
1			1			2					611	99150	2	EACH	INLET ADJUSTED TO GRADE				
3						3					611	99154	3	EACH	INLET RECONSTRUCTED TO GRADE				
		△ 13				△ 15					611	99574	△ 15	EACH	MANHOLE, NO. 3				
2			2			4					611	99575	4	EACH	MANHOLE, NO. 3, AS PER PLAN "A"				P1,P4
			3			3					611	99575	3	EACH	MANHOLE, NO. 3, AS PER PLAN "B"				P4
		△ 2				2					611	99575	2	EACH	MANHOLE, NO. 3, AS PER PLAN "6A"				P3
2		△ 1				△ 3					611	99654	△ 3	EACH	MANHOLE ADJUSTED TO GRADE				
2						2					611	99655	2	EACH	MANHOLE ADJUSTED TO GRADE, AS PER PLAN "A"				P1
	1		1			2					611	99655	2	EACH	MANHOLE ADJUSTED TO GRADE, AS PER PLAN "B"				P2,P4
△ 2	△ 2					△ 4	△ 4				611	99660	△ 4	EACH	MANHOLE RECONSTRUCTED TO GRADE				
1			5			6					611	99661	6	EACH	MANHOLE RECONSTRUCTED TO GRADE, AS PER PLAN "A"				P1,P4
			2			2					611	99661	2	EACH	MANHOLE RECONSTRUCTED TO GRADE, AS PER PLAN "B"				P4
		1				1					611	99661	1	EACH	MANHOLE RECONSTRUCTED TO GRADE, AS PER PLAN "6A"				P3
5		6				11					611	99710	11	EACH	PRECAST REINFORCED CONCRETE OUTLET				
		20				20					611	99720	20	EACH	INSPECTION WELL				
500	250		1000			1750					SPECIAL	61199820	1750	LB	MISCELLANEOUS METAL				P1,P2,P4
		1856				1856					613	41200	1856	CY	LOW STRENGTH MORTAR BACKFILL				
	4			6		10					SPECIAL	69098000	10	EACH	CITY OF COLUMBUS STANDARD CURB AND GUTTER INLET (AA-S125A WITH GRATE AA-S128)				P2,P4
				4		4					SPECIAL	69098000	4	EACH	CITY OF COLUMBUS DOUBLE CURB AND GUTTER INLET (AA-S125B WITH GRATE AA-S128)				P4
	1					1					SPECIAL	69098000	1	EACH	CITY OF COLUMBUS MANHOLE, TYPE C (AA-S102)				P2
		1				1					SPECIAL	69098000	1	EACH	MANHOLE, TYPE C (48")				P3
		2				2					SPECIAL	69098000	2	EACH	DOUBLE CURB AND GUTTER INLET				P3
		1				1					SPECIAL	69098000	1	EACH	MODIFIED DOUBLE CURB AND GUTTER INLET				P3
		5				5					SPECIAL	69098000	5	EACH	MANHOLE ADJUSTED TO GRADE				P3
	77			409		486					SPECIAL	69098100	486	FT	CITY OF COLUMBUS 6" PIPE, WITH TYPE 1 BEDDING, WITH 912 COMPACTED GRANULAR MATERIAL				P2,P4
				96		96					SPECIAL	69098100	96	FT	CITY OF COLUMBUS 6" PIPE, WITH TYPE 1 BEDDING, WITH 912 COMPACTED GRANULAR MATERIAL, AS PER PLAN				P4
				116		116					SPECIAL	69098100	116	FT	CITY OF COLUMBUS 8" PIPE, WITH TYPE 1 BEDDING, WITH 912 COMPACTED GRANULAR MATERIAL				P4
				71		71					SPECIAL	69098100	71	FT	CITY OF COLUMBUS 8" PIPE, WITH TYPE 1 BEDDING, WITH 912 COMPACTED GRANULAR MATERIAL, AS PER PLAN				P4
	366			92		458					SPECIAL	69098100	458	FT	CITY OF COLUMBUS 12" PIPE, WITH TYPE 1 BEDDING, WITH 912 COMPACTED GRANULAR MATERIAL				P2,P4
				293		293					SPECIAL	69098100	293	FT	CITY OF COLUMBUS 12" PIPE, WITH TYPE 1 BEDDING, WITH 912 COMPACTED GRANULAR MATERIAL, AS PER PLAN				P4
		31				31					SPECIAL	69098100	31	FT	12" CONDUIT, TYPE 1				P3
		41				41					SPECIAL	69098100	41	FT	24" CONDUIT, TYPE 1				P3
		993				993					SPECIAL	69098100	993	FT	4" PIPE UNDERDRAIN				P3
223		941				1164					839	29000	1164	FT	TRENCH DRAIN, TYPE A WITH STANDARD GRATE				
		44				44					839	30001	44	FT	TRENCH DRAIN, TYPE B WITH STANDARD GRATE, AS PER PLAN				P3

BIG BUILD MASTER GENERAL SUMMARY

FRA-70-13.11

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OFFICE CALCS		SHEET NUMBER						PARTICIPATION				ITEM	ITEM EXT.	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.	
	51	52	164	168	301	304	R/W 6	01/IMS/04										
	LS							LS					201	11000	LS	ROADWAY CLEARING AND GRUBBING	33	
	28		32962 1406 175		32990 1406 175								202	20010	1	EACH	HEADWALL REMOVED	
													202	23000	32990	SY	PAVEMENT REMOVED	
													202	30700	1406	FT	CONCRETE BARRIER REMOVED	
													202	30701	175	FT	CONCRETE BARRIER REMOVED, AS PER PLAN "4A"	39
			2870		2870								202	32000	2870	FT	CURB REMOVED	
			49		49								202	32600	49	FT	GUTTER REMOVED	
			835		835								202	35100	835	FT	PIPE REMOVED, 24" AND UNDER	
			32		32								202	35201	32	FT	PIPE REMOVED, OVER 24", AS PER PLAN	39
			4722		4722								202	38000	4722	FT	GUARDRAIL REMOVED	
			4		4								202	47800	1	EACH	IMPACT ATTENUATOR REMOVED	
			13		13								202	58000	4	EACH	MANHOLE REMOVED	
													202	58100	13	EACH	CATCH BASIN REMOVED	
			4		4								202	58200	4	EACH	INLET REMOVED	
			1		1								202	58500	1	EACH	CATCH BASIN ABANDONED	
			162		162								SPECIAL	20270000	162	FT	FILL AND PLUG EXISTING CONDUIT, 15"	43
			126		126								SPECIAL	20270000	126	FT	FILL AND PLUG EXISTING CONDUIT, 18"	43
			1047		1047								202	75000	1047	FT	FENCE REMOVED	
			2		2								202	75250	2	EACH	GATE REMOVED	
			1070		1070								202	98200	1070	FT	REMOVAL MISC.: PORTABLE BARRIER	39
			1062		1062								202	98200	1062	FT	REMOVAL MISC.: PORTABLE BARRIER WITH VANDAL FENCE	39
				25365	25365								203	10000	25365	CY	EXCAVATION	
				35175	35175								203	20000	35175	CY	EMBANKMENT	
				3977	3977								203	20001	3977	CY	EMBANKMENT, AS PER PLAN	39
				3360	3360								203	35000	3360	CY	GRANULAR EMBANKMENT	
				4592	4592								203	35001	4592	CY	GRANULAR EMBANKMENT, AS PER PLAN	39
23954				422	422	541		24917					204	10000	24917	SY	SUBGRADE COMPACTION	
		250						250					204	13000	250	CY	EXCAVATION OF SUBGRADE	
		250						250					204	30010	250	CY	GRANULAR MATERIAL, TYPE B	
28								28					204	45000	28	hour	PROOF ROLLING	
		500						500					204	50000	500	SY	GEOTEXTILE FABRIC	
		500						500					204	51000	500	SY	GEOGRID	
432								432					206	10500	432	TON	CEMENT	
14276								14276					206	11000	14276	SY	CURING COAT	
14276								14276					206	15020	14276	SY	CEMENT STABILIZED SUBGRADE, 14 INCHES DEEP	
LS								LS					206	30000	LS		MIXTURE DESIGN FOR CHEMICALLY STABILIZED SOILS	
LS	LS							LS					208	14001	LS		VIBRATION CONTROL AND MONITORING, AS PER PLAN	47
32								32					209	60201	32	STA	LINEAR GRADING, AS PER PLAN	38
			3427		3427								606	15050	3427	FT	GUARDRAIL, TYPE MGS	
			1		1								606	26150	1	EACH	ANCHOR ASSEMBLY, MGS TYPE E (MASH 2016)	
			3		3								606	26550	3	EACH	ANCHOR ASSEMBLY, MGS TYPE T	
			5		5								606	35002	5	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1	
			2		2								606	35102	2	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 2	
			2		2								606	60040	2	EACH	IMPACT ATTENUATOR, TYPE 3 UNIDIRECTIONAL (60 MPH, 48" WIDTH)	38
			942		942								607	23001	942	FT	FENCE, TYPE CLT, AS PER PLAN "A"	
			323		323								607	39994	323	FT	TEMPORARY VANDAL FENCE, TYPE B	
1065			2122		3187								608	98000	3187	SF	WALKWAY, MISC.: 6" X 6" CONCRETE PAVERS	303
132					132								622	10140	132	FT	CONCRETE BARRIER, SINGLE SLOPE, TYPE C1	
1551					1551								622	10160	1551	FT	CONCRETE BARRIER, SINGLE SLOPE, TYPE D	
1					1								622	25000	1	EACH	CONCRETE BARRIER END SECTION, TYPE D	
4					4								622	25014	4	EACH	CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE C1	
1					1								622	25015	1	EACH	CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE C1, AS PER PLAN "4A"	38
19					19								622	25050	19	EACH	CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE D	
1					1								622	25051	1	EACH	CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE D, AS PER PLAN "4A"	38
			1933		1933								622	41111	1933	FT	PORTABLE BARRIER, ANCHORED, AS PER PLAN	38
						22		22					623	40500	22	EACH	REFERENCE MONUMENT, TYPE A	
						1		1					623	40520	1	EACH	RIGHT-OF-WAY MONUMENT, TYPE B	
LS								LS					SPECIAL	69098400	LS		EMERGENCY ACTION PLAN COORDINATION "4A"	34
LS								LS					SPECIAL	69098400	LS		WCLPP R/W CONSTRUCTION CAMERA	34
LS								LS					SPECIAL	69098400	LS		USACE SURVEY AND AS-BUILTS	34
LS								LS					SPECIAL	69098400	LS		SURVEY CONTROL VERIFICATION	34
LS								LS					878	25000	LS		INSPECTION AND COMPACTION TESTING OF UNBOUND MATERIALS	

4A PART 1 GENERAL SUMMARY

FRA-70-13.11

NO.	DESCRIPTION	REV. BY	DATE
1	REVISED F-1 & R/W SHEET #	CWL	10-2-23
4	UPDATED 202 ITEMS	CWL	10-30-23
8	REL. BIKE PATH DETOUR	CWL	11-20-23
9	REVISED EXCAVATION	CWL	12-2-23
13	ADDED GUTTER REMOVED	CWL	12-17-23

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SHEET NO.	202		202		202		202		202		202		202		202		202		202		202		SPECIAL		202						
	PAVEMENT REMOVED		PAVEMENT REMOVED, ASPHALT		REMOVAL MISC.: PORTABLE BARRIER WITH VANDAL FENCE		REMOVAL MISC.: PORTABLE BARRIER		CONCRETE BARRIER REMOVED		FENCE REMOVED		GATE REMOVED		CURB REMOVED		GUARDRAIL REMOVED		IMPACT ATTENUATOR REMOVED		CONCRETE BARRIER REMOVED, AS PER PLAN		PIPE REMOVED, 24" AND UNDER		HEADWALL REMOVED		FENCE, TYPE CLT, AS PER PLAN "A"		FILL AND PLUG EXISTING CONDUIT, 18"	GUTTER REMOVED	
	SY		SY		FT		FT		FT		FT		EACH		FT		FT		EACH		FT		FT		EACH		FT		FT		
	01/IMS/04	01/IMS/04	01/IMS/04	01/IMS/04	01/IMS/04	01/IMS/04	01/IMS/04	01/IMS/04	01/IMS/04	01/IMS/04	01/IMS/04	01/IMS/04	01/IMS/04	01/IMS/04	01/IMS/04	01/IMS/04	01/IMS/04	01/IMS/04	01/IMS/04	01/IMS/04	01/IMS/04	01/IMS/04	01/IMS/04	01/IMS/04	01/IMS/04	01/IMS/04	01/IMS/04	01/IMS/04	01/IMS/04		
169					637	425	642	428											1												
173														1	1												565	377	76	50	
174																															
175																														49	
178																															
179	6441	4294	13336	8891					844	562				1722	1148						105	70			122						
TOTALS CARRIED TO GENERAL SUMMARY	6441	4294	13336	8891	637	425	642	428	844	562	628	419	1	1	1722	1148	2833	1889	1		105	70	428	285	122	1	565	377	76	50	49
SHEET NO.	202		202		202		202		SPECIAL		608		606		606		606		606		606		622		626*		626*		202	607	
	MANHOLE REMOVED		CATCH BASIN REMOVED		INLET REMOVED		CATCH BASIN ABANDONED		FILL AND PLUG EXISTING CONDUIT, 15"		WALKWAY, MISC.: 6" X 6" CONCRETE PAVERS		GUARDRAIL, TYPE MGS		ANCHOR ASSEMBLY, MGS TYPE E (MASH 2016)		ANCHOR ASSEMBLY, MGS TYPE T		MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1		MGS BRIDGE TERMINAL ASSEMBLY, TYPE 2		IMPACT ATTENUATOR, TYPE 3 UNIDIRECTIONAL		PORTABLE BARRIER, ANCHORED, AS PER PLAN		BARRIER REFLECTOR, TYPE 1, ONE-WAY		BARRIER REFLECTOR, TYPE 2, ONE-WAY		PIPE REMOVED, OVER 24", AS PER PLAN
	EACH		EACH		EACH		EACH		FT		SF		FT		EACH		EACH		EACH		EACH		FT		EACH		EACH		EACH	FT	
	01/IMS/04	01/IMS/04	01/IMS/04	01/IMS/04	01/IMS/04	01/IMS/04	01/IMS/04	01/IMS/04	01/IMS/04	01/IMS/04	01/IMS/04	01/IMS/04	01/IMS/04	01/IMS/04	01/IMS/04	01/IMS/04	01/IMS/04	01/IMS/04	01/IMS/04	01/IMS/04	01/IMS/04	01/IMS/04	01/IMS/04	01/IMS/04	01/IMS/04	01/IMS/04	01/IMS/04	01/IMS/04	01/IMS/04		
169												1											1	1	1160	773	20	13			
172																															
173																															
178																															
TOTALS CARRIED TO GENERAL SUMMARY	2	2	8	5	2	2	1	97	65	1273	849	2056	1371	1	2	1	3	2	1	1	1	1	1	1160	773	68	45	43	29	32	323

NO.	DESCRIPTION	REV. BY	DATE
1	REVISED F-1	CWL	10-2-23
4	UPDATED 202 ITEMS	CWL	10-30-23
8	REL. BIKE PATH DETOUR	CWL	11-20-23
13	ADDED GUTTER REMOVED	CWL	12-7-23

* QUANTITY CARRIED TO TRAFFIC CONTROL GENERAL SUMMARY ON SHEET 371

ROADWAY SUBSUMMARY

FRA-70-13.11

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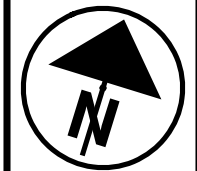
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SHEET NO.	602		605		605		605		611		611		611		611		611		611		611		611		611		611		611		611		611		611		
	CONCRETE MASONRY		6" SHALLOW PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC		6" UNCLASSIFIED PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC		6" BASE PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC		6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS		6" CONDUIT, TYPE B		15" CONDUIT, TYPE C, AS PER PLAN		15" CONDUIT, TYPE B		15" CONDUIT, TYPE C		18" CONDUIT, TYPE B		18" CONDUIT, TYPE B, AS PER PLAN						CATCH BASIN, NO. 3		CATCH BASIN, NO. 3A		CATCH BASIN, NO. 6		CATCH BASIN, NO. 6, AS PER PLAN				
	CY		FT		FT		FT		FT		FT		FT		FT		FT		FT		FT						EACH		EACH		EACH		EACH				
	01/IMS /04	01/IMS /04	01/IMS /04	01/IMS /04	01/IMS /04	01/IMS /04	01/IMS /04	01/IMS /04	01/IMS /04	01/IMS /04	01/IMS /04	01/IMS /04	01/IMS /04	01/IMS /04	01/IMS /04	01/IMS /04	01/IMS /04	01/IMS /04	01/IMS /04	01/IMS /04	01/IMS /04	01/IMS /04	01/IMS /04	01/IMS /04	01/IMS /04	01/IMS /04	01/IMS /04	01/IMS /04	01/IMS /04	01/IMS /04	01/IMS /04	01/IMS /04	01/IMS /04				
170																										1	1	2	2	1	1	1					
171																																					
174	0.4	0.2									5	3	12	8	347	231	67	45	61	40	125	84	73	48													
176			1700	1134	276	184	2456	1637	104	69	108	72																									
177			1274	850	219	146	4023	2682	60	40	104	70																									
178			601	401			1054	703	49	33	20	14																									
TOTALS CARRIED TO GENERAL SUMMARY	0.4	0.2	3575	2385	495	330	7533	5022	213	142	237	159	12	8	347	231	67	45	61	40	125	84	73	48			1	1	2	2	2	1	1				
SHEET NO.	611		611		611		611		611		611		611		611		611		611		611		611		611		611		611		611		839				
	CATCH BASIN, NO. 8, AS PER PLAN		CATCH BASIN ADJUSTED TO GRADE		CATCH BASIN RECONSTRUCTED TO GRADE				INLET, NO. 2-A-6		INLET, NO. 2-A-12		INLET, NO. 2-A-14		INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE C1, AS PER PLAN		INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE D		INLET ADJUSTED TO GRADE		INLET RECONSTRUCTED TO GRADE		MANHOLE ADJUSTED TO GRADE, AS PER PLAN "A"		MANHOLE, NO. 3, AS PER PLAN "A"		MANHOLE ADJUSTED TO GRADE		MANHOLE RECONSTRUCTED TO GRADE		MANHOLE RECONSTRUCTED TO GRADE, AS PER PLAN "A"		PRECAST REINFORCED CONCRETE OUTLET		TRENCH DRAIN, TYPE A WITH STANDARD GRATE		
	EACH		EACH		EACH				EACH		EACH		EACH		EACH		EACH		EACH		EACH		EACH		EACH		EACH		EACH		EACH		FT				
	01/IMS /04	01/IMS /04	01/IMS /04	01/IMS /04	01/IMS /04	01/IMS /04			01/IMS /04	01/IMS /04	01/IMS /04	01/IMS /04	01/IMS /04	01/IMS /04	01/IMS /04	01/IMS /04	01/IMS /04	01/IMS /04	01/IMS /04	01/IMS /04	01/IMS /04	01/IMS /04	01/IMS /04	01/IMS /04	01/IMS /04	01/IMS /04	01/IMS /04	01/IMS /04	01/IMS /04	01/IMS /04	01/IMS /04	01/IMS /04	01/IMS /04	01/IMS /04			
170	2	1							1	1	1		1	1	3	2										1	1										
171			2	1	1	1			1	1								1		2	1	1	1			1	1	1	1				134	89			
176																																					
178																																					
TOTALS CARRIED TO GENERAL SUMMARY	2	1	2	1	1	1			2	2	1		1	1	3	2	1		2	1	1	1			1	1	1	1	1	1	1	134	89				

NO.	DESCRIPTION	REV. BY	DATE
5	REVISED P-156	CWL	10-31-23
13	105523 AS CHANGES	CWL	12-17-23

CALCULATED CJC
 CHECKED CWL
DRAINAGE SUBSUMMARY
FRA-70-13.11
 166
 1151



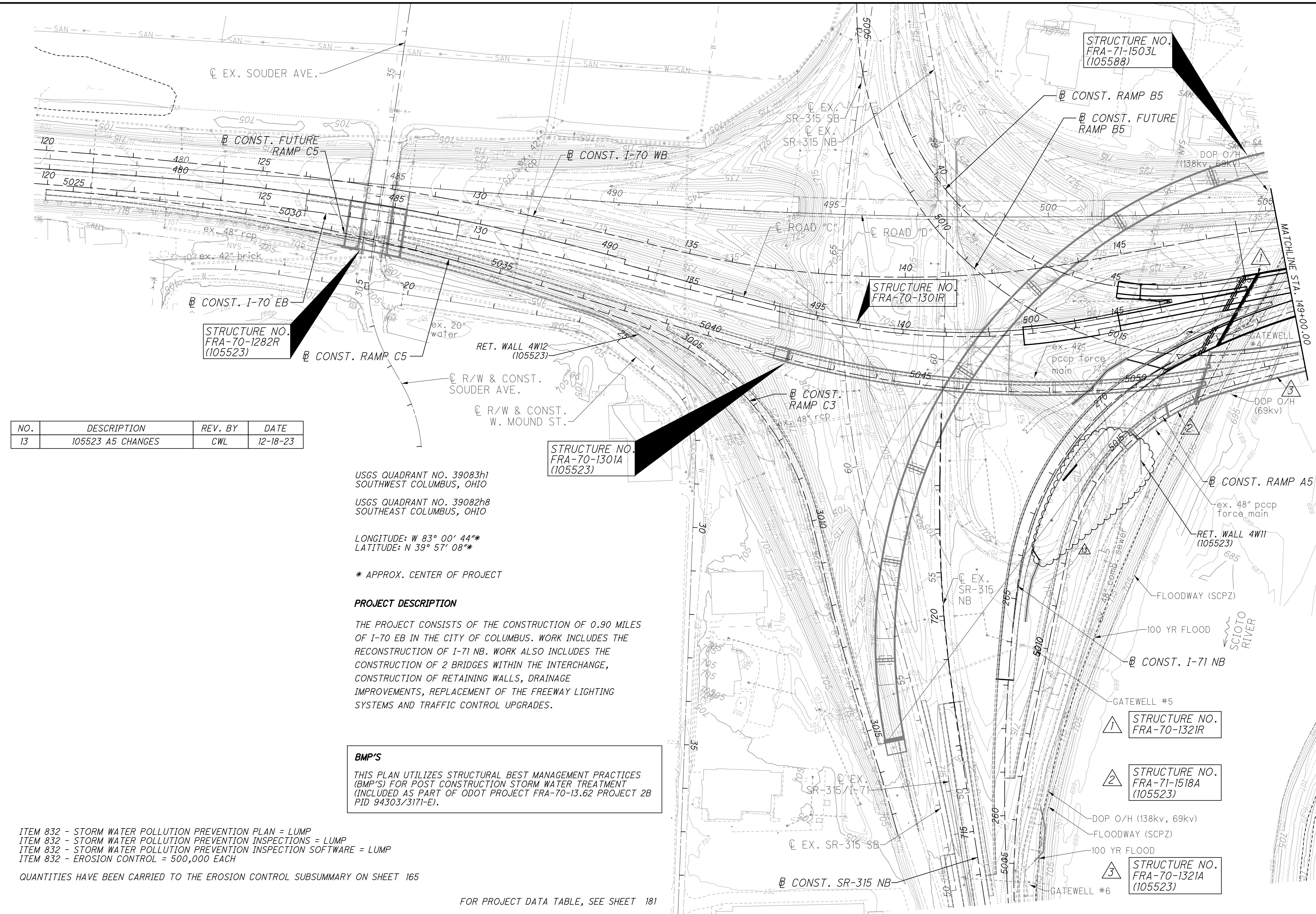
CALCULATED
ATR
CHECKED
CWL

0 50 100 200
HORIZONTAL
SCALE IN FEET

**PROJECT SITE PLAN
BEGIN TO STA. 149+00.00**

FRA-70-13.11

180
1151



NO.	DESCRIPTION	REV. BY	DATE
13	105523 A5 CHANGES	CWL	12-18-23

USGS QUADRANT NO. 39083h1
SOUTHWEST COLUMBUS, OHIO

USGS QUADRANT NO. 39082h8
SOUTHEAST COLUMBUS, OHIO

LONGITUDE: W 83° 00' 44"*
LATITUDE: N 39° 57' 08"*

* APPROX. CENTER OF PROJECT

PROJECT DESCRIPTION

THE PROJECT CONSISTS OF THE CONSTRUCTION OF 0.90 MILES OF I-70 EB IN THE CITY OF COLUMBUS. WORK INCLUDES THE RECONSTRUCTION OF I-71 NB. WORK ALSO INCLUDES THE CONSTRUCTION OF 2 BRIDGES WITHIN THE INTERCHANGE, CONSTRUCTION OF RETAINING WALLS, DRAINAGE IMPROVEMENTS, REPLACEMENT OF THE FREEWAY LIGHTING SYSTEMS AND TRAFFIC CONTROL UPGRADES.

BMP'S

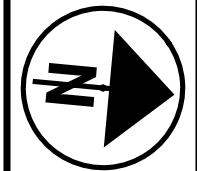
THIS PLAN UTILIZES STRUCTURAL BEST MANAGEMENT PRACTICES (BMP'S) FOR POST CONSTRUCTION STORM WATER TREATMENT (INCLUDED AS PART OF ODOT PROJECT FRA-70-13.62 PROJECT 2B PID 94303/3171-E).

- ITEM 832 - STORM WATER POLLUTION PREVENTION PLAN = LUMP
- ITEM 832 - STORM WATER POLLUTION PREVENTION INSPECTIONS = LUMP
- ITEM 832 - STORM WATER POLLUTION PREVENTION INSPECTION SOFTWARE = LUMP
- ITEM 832 - EROSION CONTROL = 500,000 EACH

QUANTITIES HAVE BEEN CARRIED TO THE EROSION CONTROL SUBSUMMARY ON SHEET 165

FOR PROJECT DATA TABLE, SEE SHEET 181

01/20/2012 2:28:48 PM FRA70-13.11\DRAWING\BMP\SHEETS\7372\DEW01.DGN
 12/18/2023 8:25:24 AM
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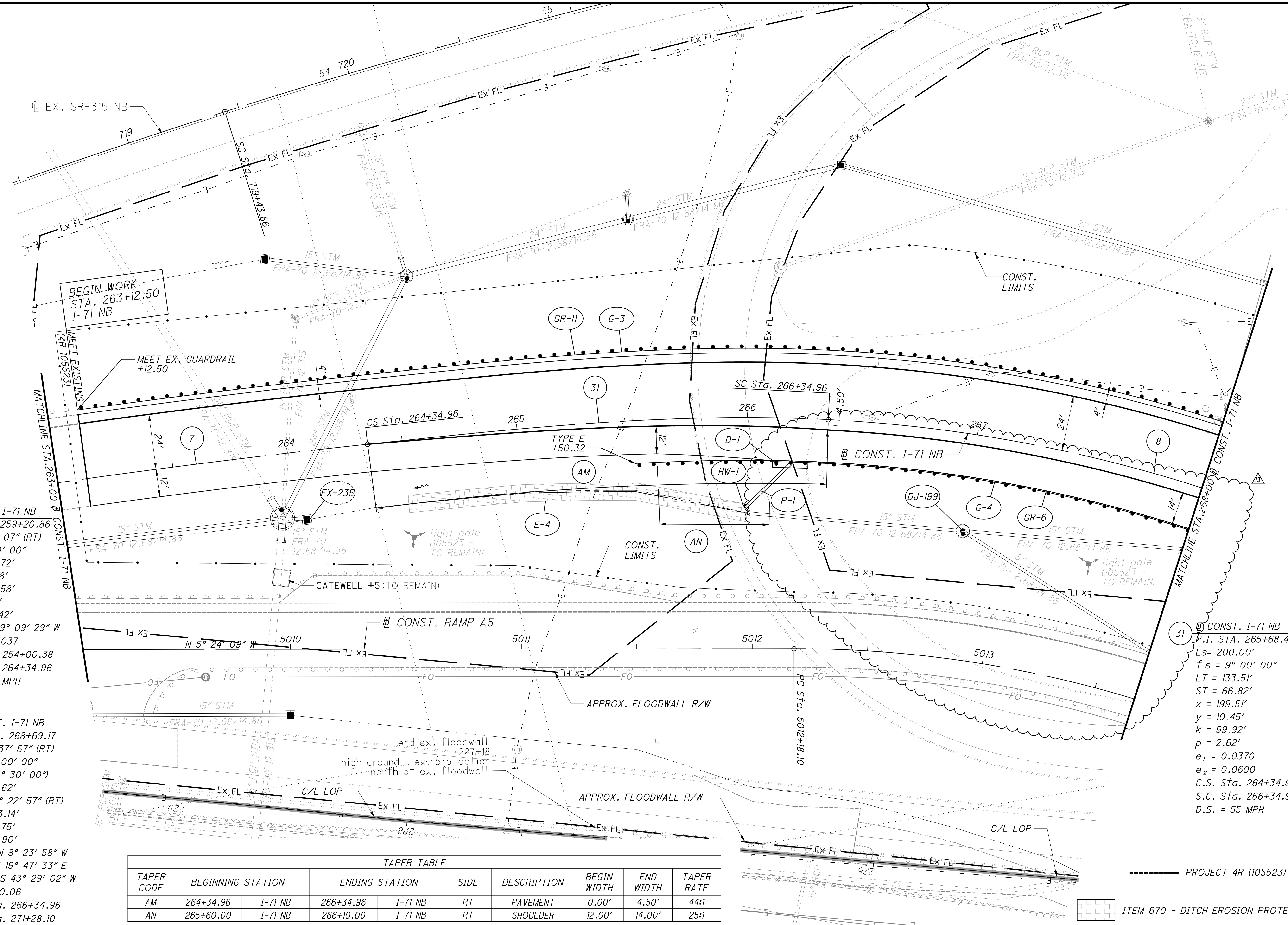
0 10 20 40
HORIZONTAL SCALE IN FEET

CALCULATED TMT CHECKED CWL

PLAN - I-71 NORTHBOUND
STA. 263+00.00 TO STA. 268+00.00

FRA-70-13.11

213
1151



BEGIN WORK
STA. 263+12.50
I-71 NB

MEET EX. GUARDRAIL
+12.50

MATCHLINE STA. 263+00
CONST. I-71 NB

MATCHLINE STA. 268+00
CONST. I-71 NB

7
CONST. I-71 NB
P.I. Sta. 259+20.86
 $\Delta = 15^\circ 31' 07''$ (RT)
 $D_c = 1^\circ 30' 00''$
 $R = 3,819.72'$
 $T = 520.48'$
 $L = 1,034.58'$
 $E = 35.30'$
 $C = 1,031.42'$
C.B. = $N 19^\circ 09' 29'' W$
 $e_{max} = 0.037$
P.C. Sta. 254+00.38
C.S. Sta. 264+34.96
D.S. = 60 MPH

8
CONST. I-71 NB
P.I. Sta. 268+69.17
 $\Delta = 55^\circ 37' 57''$ (RT)
 $D_c = 9^\circ 00' 00''$
(NDC = $5^\circ 30' 00''$)
 $R = 636.62'$
 $\Delta_c = 44^\circ 22' 57''$ (RT)
 $L_c = 493.14'$
 $E_s = 84.75'$
 $C = 480.90'$
C.B.1 = $N 8^\circ 23' 58'' W$
C.B. = $N 19^\circ 47' 33'' E$
C.B.2 = $S 43^\circ 29' 02'' W$
 $e_{max} = 0.06$
S.C. Sta. 266+34.96
C.S. Sta. 271+28.10
D.S. = 55 MPH
HORZ. SSD = 326'
(NDC = 495')

TAPER TABLE

TAPER CODE	BEGINNING STATION	ENDING STATION	SIDE	DESCRIPTION	BEGIN WIDTH	END WIDTH	TAPER RATE	
AM	264+34.96	I-71 NB 266+34.96	I-71 NB	RT	PAVEMENT	0.00'	4.50'	44:1
AN	265+60.00	I-71 NB 266+10.00	I-71 NB	RT	SHOULDER	12.00'	14.00'	25:1

NO.	DESCRIPTION	REV. BY	DATE
13	105523 A5 CHANGES	CWL	12-17-23

31
CONST. I-71 NB
P.I. STA. 265+68.47
 $L_s = 200.00'$
 $f_s = 9^\circ 00' 00''$
 $LT = 133.51'$
 $ST = 66.82'$
 $x = 199.51'$
 $y = 10.45'$
 $k = 99.92'$
 $p = 2.62'$
 $e_1 = 0.0370$
 $e_2 = 0.0600$
C.S. Sta. 264+34.96
S.C. Sta. 266+34.96
D.S. = 55 MPH

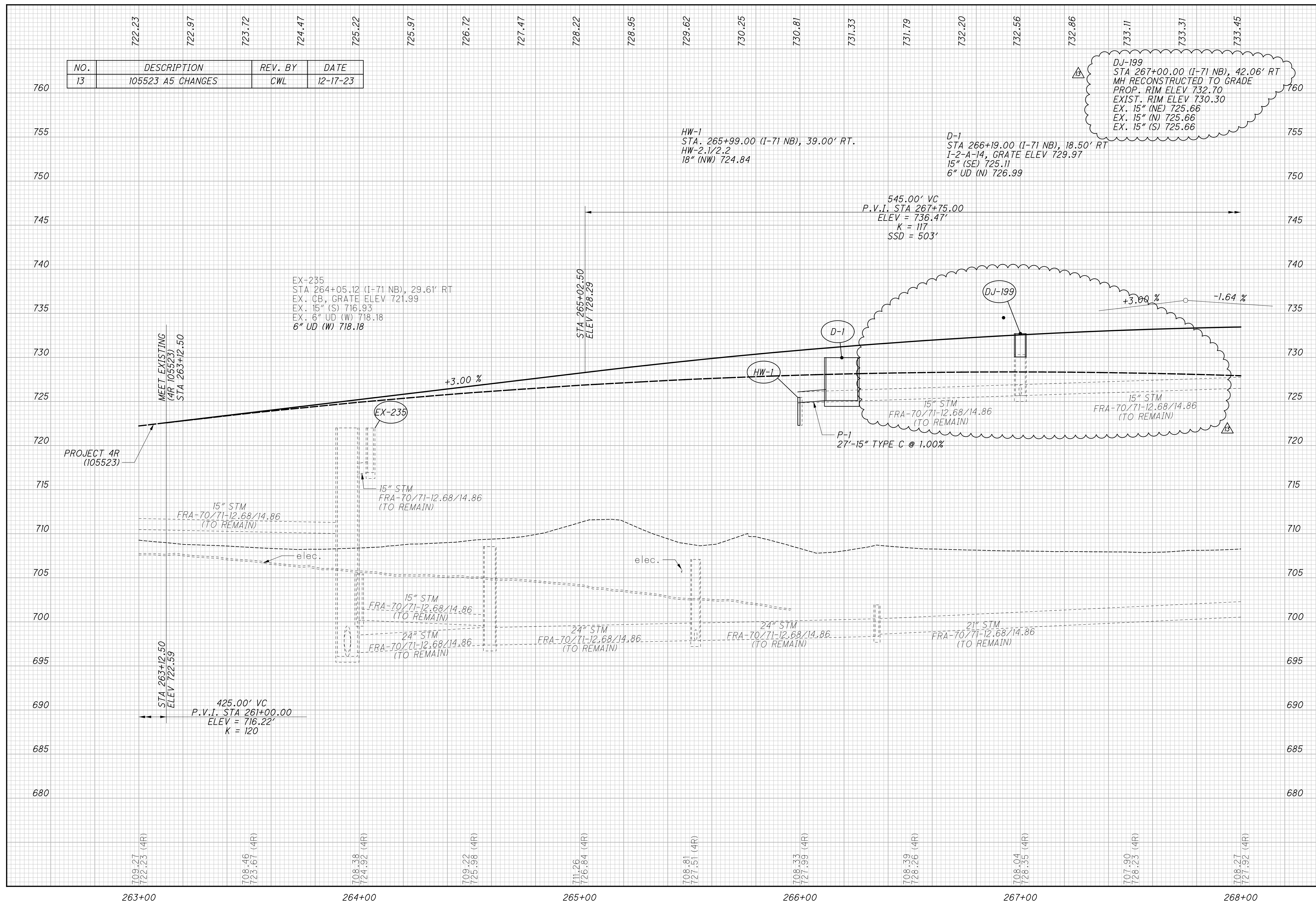
PROJECT 4R (105523)

ITEM 670 - DITCH EROSION PROTECTION

FOR I-71 N.B. PROFILE, SEE SHEET 214
FOR LIGHTING PLANS, SEE SHEETS 401 - 413
FOR UNDERDRAIN DETAILS, SEE SHEETS 306 - 308
FOR ESTIMATED QUANTITIES, SEE SHEETS 169 - 178

01:201212012046\FRA\7372\ROADWAY SHEETS\73720P024.DGN
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NO.	DESCRIPTION	REV. BY	DATE
13	105523 A5 CHANGES	CWL	12-17-23



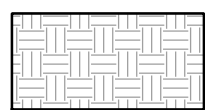
CALCULATED
CWL
CHECKED
TMT

PROFILE - I-71 NORTHBOUND
STA. 263+00.00 TO STA. 268+00.00

FRA-70-13.11

214
1151

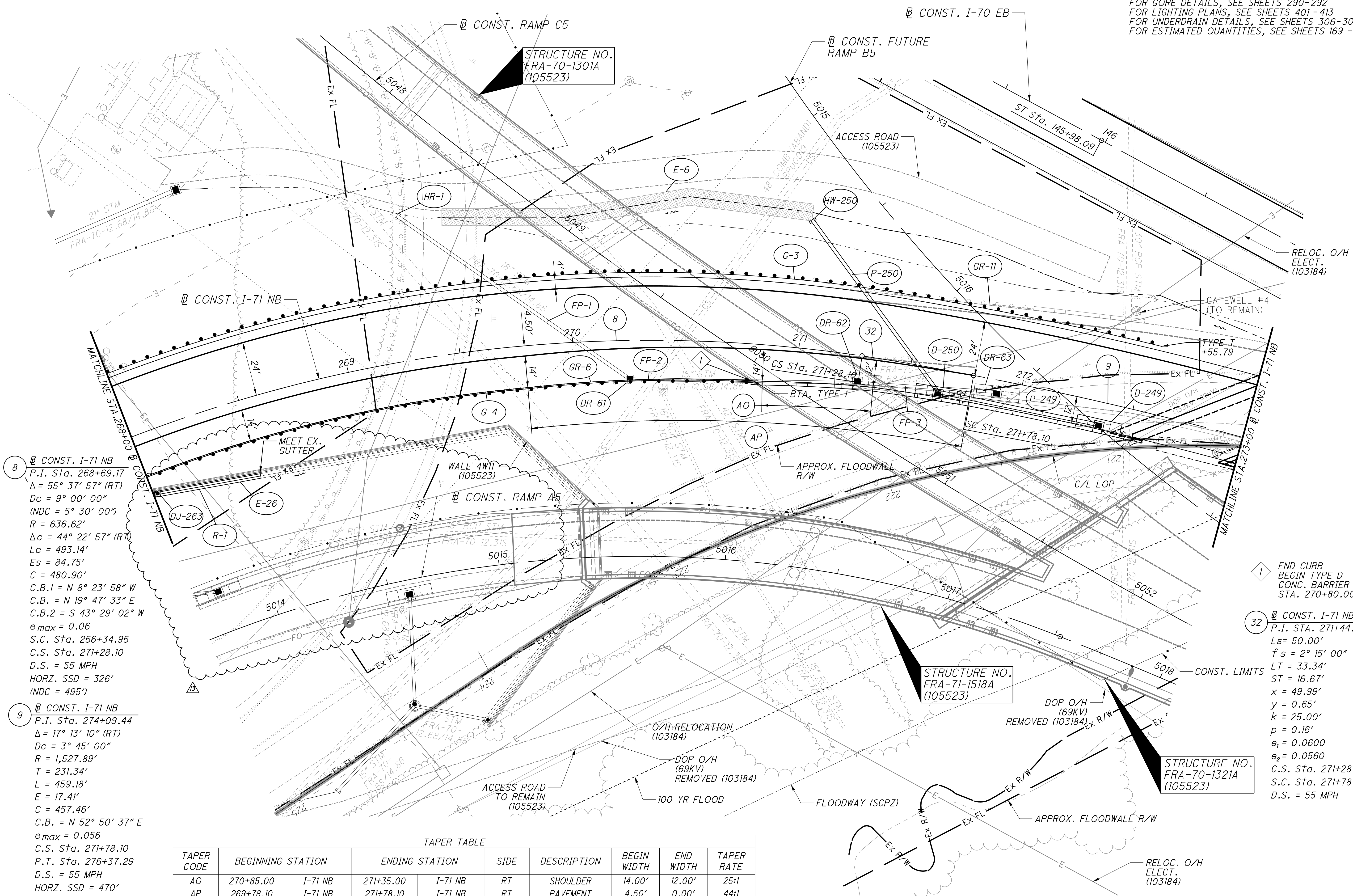
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ITEM 836 - SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE 1

NO.	DESCRIPTION	REV. BY	DATE
13	105523 A5 CHANGES	CWL	12-17-23

FOR I-71 NB PROFILE, SEE SHEET 216
 FOR I-70 EB PLANS, SEE SHEETS 183-210
 FOR RAMP B5 PLANS, SEE SHEETS 219-222
 FOR GORE DETAILS, SEE SHEETS 290-292
 FOR LIGHTING PLANS, SEE SHEETS 401-413
 FOR UNDERDRAIN DETAILS, SEE SHEETS 306-308
 FOR ESTIMATED QUANTITIES, SEE SHEETS 169-178



8 CONST. I-71 NB
 P.I. Sta. 268+69.17
 $\Delta = 55^\circ 37' 57''$ (RT)
 $D_c = 9^\circ 00' 00''$
 (NDC = $5^\circ 30' 00''$)
 $R = 636.62'$
 $\Delta_c = 44^\circ 22' 57''$ (RT)
 $L_c = 493.14'$
 $E_s = 84.75'$
 $C = 480.90'$
 $C.B.1 = N 8^\circ 23' 58'' W$
 $C.B. = N 19^\circ 47' 33'' E$
 $C.B.2 = S 43^\circ 29' 02'' W$
 $e_{max} = 0.06$
 S.C. Sta. 266+34.96
 C.S. Sta. 271+28.10
 D.S. = 55 MPH
 HORZ. SSD = 326'
 (NDC = 495')

9 CONST. I-71 NB
 P.I. Sta. 274+09.44
 $\Delta = 17^\circ 13' 10''$ (RT)
 $D_c = 3^\circ 45' 00''$
 $R = 1,527.89'$
 $T = 231.34'$
 $L = 459.18'$
 $E = 17.41'$
 $C = 457.46'$
 $C.B. = N 52^\circ 50' 37'' E$
 $e_{max} = 0.056$
 C.S. Sta. 271+78.10
 P.T. Sta. 276+37.29
 D.S. = 55 MPH
 HORZ. SSD = 470'
 (NDC = 495')

TAPER TABLE							
TAPER CODE	BEGINNING STATION	ENDING STATION	SIDE	DESCRIPTION	BEGIN WIDTH	END WIDTH	TAPER RATE
AO	270+85.00	I-71 NB	271+35.00	I-71 NB	RT	SHOULDER	14.00' 12.00' 25:1
AP	269+78.10	I-71 NB	271+78.10	I-71 NB	RT	PAVEMENT	4.50' 0.00' 44:1

1 END CURB
 BEGIN TYPE D
 CONC. BARRIER
 STA. 270+80.00

32 CONST. I-71 NB
 P.I. STA. 271+44.77
 $L_s = 50.00'$
 $f_s = 2^\circ 15' 00''$
 $LT = 33.34'$
 $ST = 16.67'$
 $x = 49.99'$
 $y = 0.65'$
 $k = 25.00'$
 $p = 0.16'$
 $e_1 = 0.0600$
 $e_2 = 0.0560$
 C.S. Sta. 271+28.10
 S.C. Sta. 271+78.10
 D.S. = 55 MPH

PLAN - I-71 NORTHBOUND
 STA. 268+00.00 TO STA. 273+00.00

FRA-70-13.11

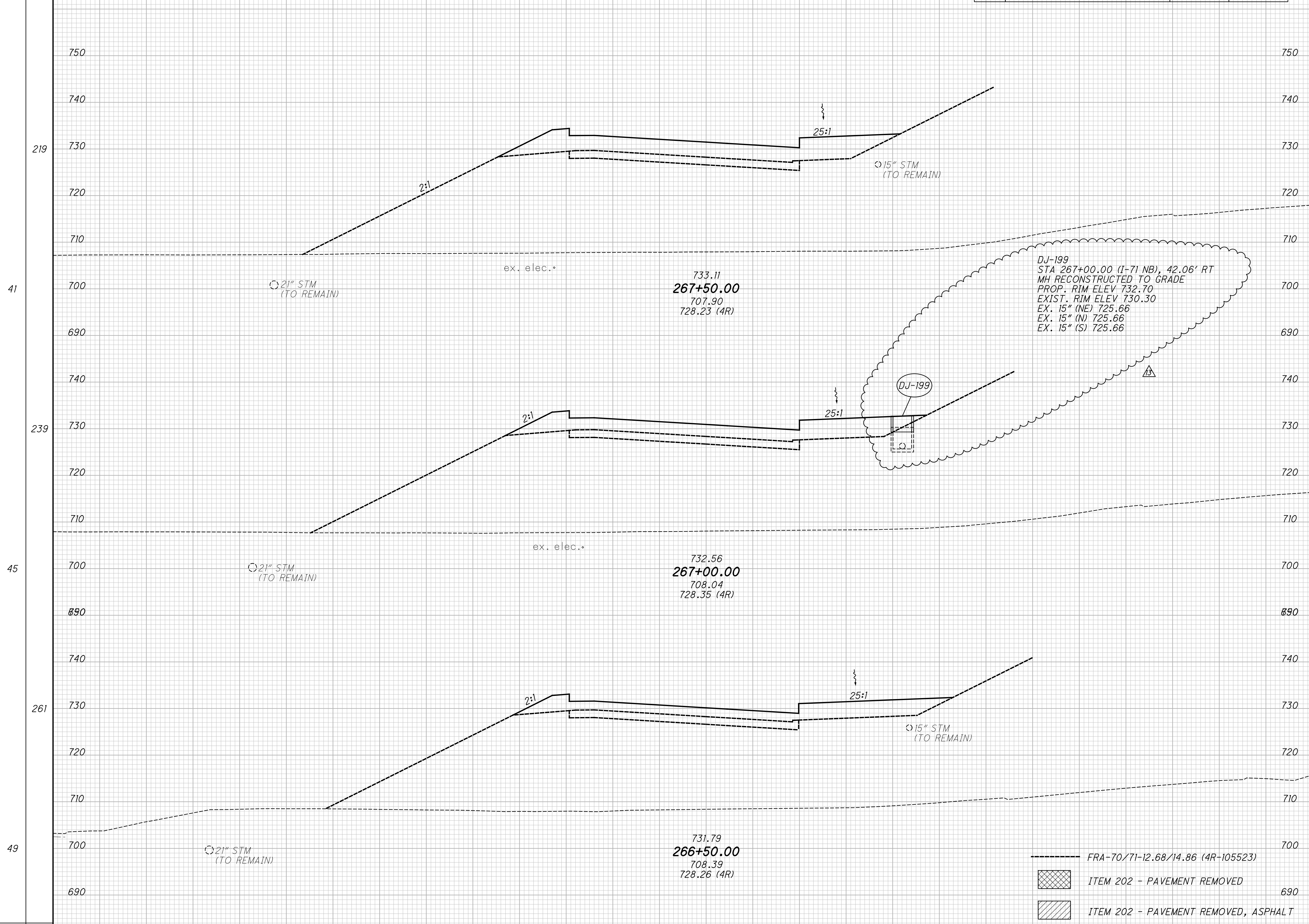
215
1151

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SEEDING
END SO.
WIDTH YDS.

NO.	DESCRIPTION	REV. BY	DATE
13	105523 A5 CHANGES	CWL	12-17-23

END AREA		VOLUME		CALCULATED ATR	CHECKED CWL
CUT	FILL	CUT	FILL		



END AREA	VOLUME	CALCULATED ATR	CHECKED CWL
0	703		
0	370		
0	660		
0	343		
0	603		
0	308		
0	1966		

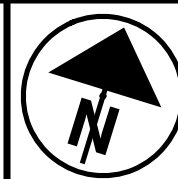
CROSS SECTIONS - I-71 NORTHBOUND
STA. 266+50.00 TO STA. 267+50.00

FRA-70-13.11

269
1151

0:\2012\2012048\FRA\70-13.11\ROADWAY\SHETS\77372\SS002.DGN
 12/17/2023 8:44:01 AM
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- FRA-70/71-12.68/14.86 (4R-105523)
- ITEM 202 - PAVEMENT REMOVED
- ITEM 202 - PAVEMENT REMOVED, ASPHALT

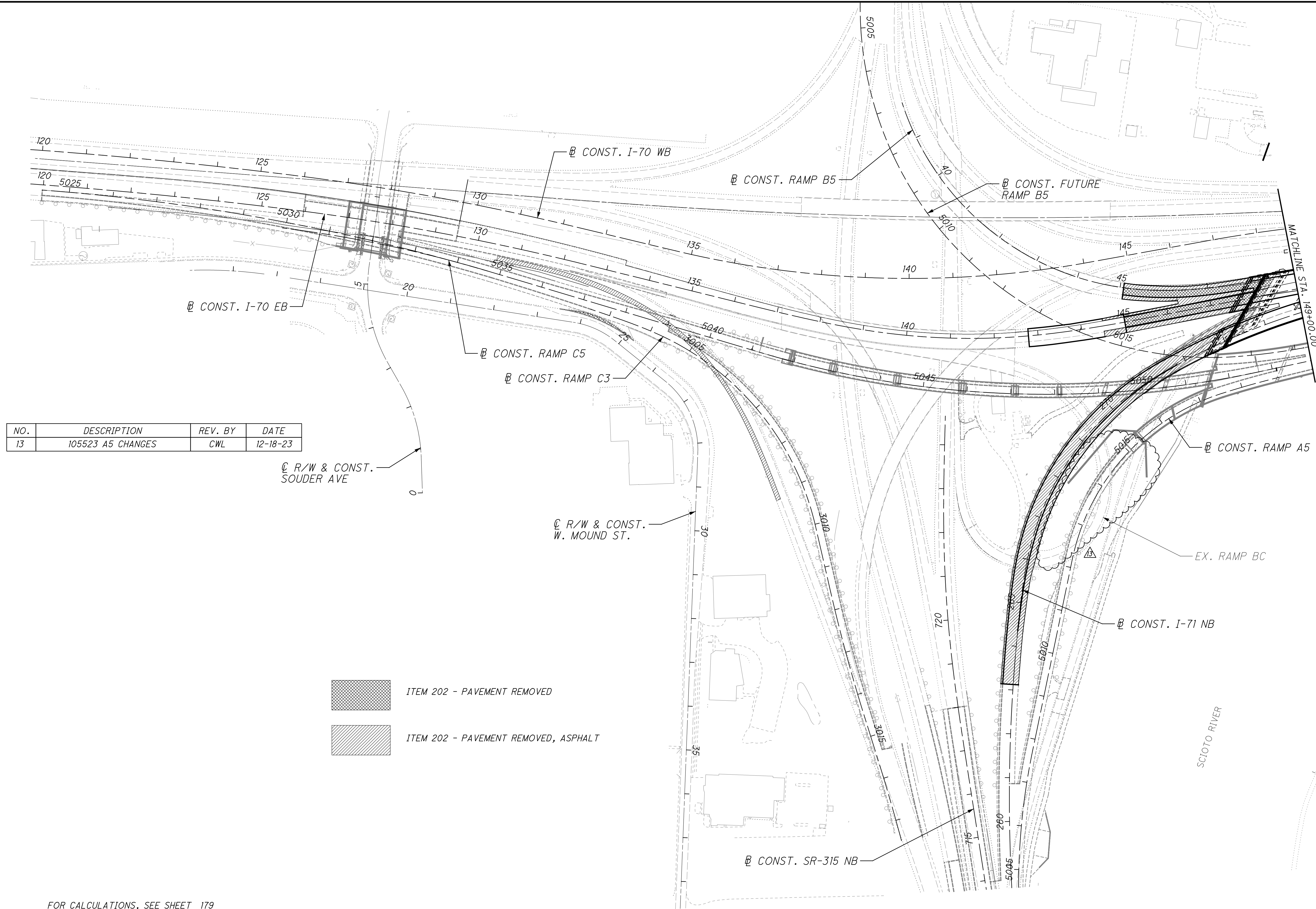


CALCULATED
ATR
CHECKED
CWL

PAVEMENT REMOVAL PLAN

FRA-70-13.11

293
1151



NO.	DESCRIPTION	REV. BY	DATE
13	105523 A5 CHANGES	CWL	12-18-23

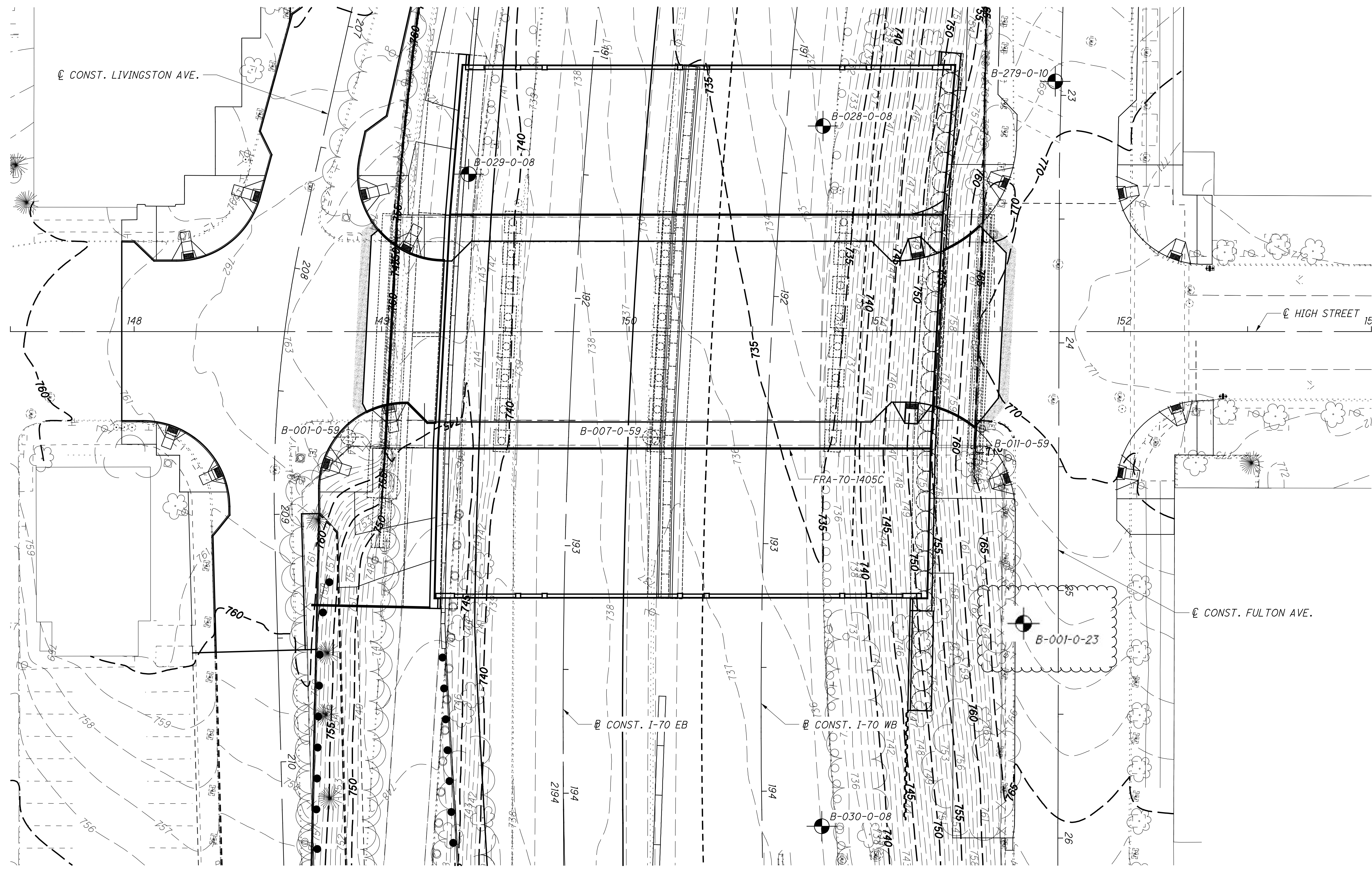
CL R/W & CONST.
SOUDER AVE

CL R/W & CONST.
W. MOUND ST.

- ITEM 202 - PAVEMENT REMOVED
- ITEM 202 - PAVEMENT REMOVED, ASPHALT

FOR CALCULATIONS, SEE SHEET 179

J:\GEOTECH\Projects\2013\W-13-045 FRA-70-13.54 Project 4A.DWG\ODOT P&P\COMBINED SET 4A & 6A\77372ZP033.dgn 1/30/2019 5:30:05 PM rocheim



DRAWN: RRM
 CHECKED: BRT
 SCALE: 1" = 40'
 HORIZONTAL SCALE IN FEET

STRUCTURE FOUNDATION EXPLORATION
FRA-70-1405C OVER I-70

FRA-70-12.68

154/496

782
 1151

PROJECT: FRA-70-13.11		DRILLING FIRM / OPERATOR: CTL / A. WILDER		DRILL RIG: DIEDRICH D50 TRACK		STATION / OFFSET:		EXPLORATION ID										
TYPE: BRIDGE		SAMPLING FIRM / LOGGER: HDR / A. BARATTA		HAMMER: DIEDRICH AUTOMATIC		ALIGNMENT:		B-001-0-23										
PID: 77372 SFN:		DRILLING METHOD: 3.25" HSA / 4" CASING		CALIBRATION DATE: 6/30/23		ELEVATION: 768.0 (MSL) EOB: 100.0 ft.		PAGE										
START: 11/27/23 END: 11/29/23		SAMPLING METHOD: SPT		ENERGY RATIO (%): 84.7		LAT / LONG: 39.953465, -82.998531		1 OF 4										
MATERIAL DESCRIPTION AND NOTES																		
ASPHALT (8") AGGREGATE BASE (4")	ELEV. 768.0	DEPTH	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)	ATTERBERG	ODOT CLASS (GI)	HOLE SEALED							
MEDIUM DENSE, BROWN, STONE FRAGMENTS WITH SAND, LITTLE SILT, TRACE CLAY, DAMP (FILL)	767.0	1	20	10	44	SS-1	-	50	19	7	20	4	NP	NP	NP	8	A-1-b (0)	
VERY STIFF, BROWN TRACE ORANGE, CLAY, "AND" SILT, LITTLE SAND, DAMP	764.5	2	4	6	23	SS-2	2.25	0	5	11	57	27	44	28	16	21	A-7-6 (11)	
MEDIUM DENSE, BROWN, SANDY SILT, "AND" GRAVEL, LITTLE CLAY, WET	762.0	3	4	3	11	SS-3	-	42	9	10	26	13	NP	NP	NP	24	A-4a (1)	
MEDIUM DENSE, BROWN, STONE FRAGMENTS WITH SAND, SILT, AND CLAY, DAMP	759.5	4	10	9	25	SS-4	-	-	-	-	-	-	-	-	-	11	A-2-6 (V)	
		5	9	9	27	SS-5	-	46	12	9	23	10	38	16	22	11	A-2-6 (2)	
		6	7	9	28	SS-6	-	-	-	-	-	-	-	-	-	9	A-2-6 (V)	
STIFF TO VERY STIFF, GRAY, SANDY SILT, "AND" GRAVEL, TRACE CLAY, DAMP	752.0	7	6	6	23	SS-7	1.25	39	11	11	31	8	25	15	10	12	A-4a (1)	
DENSE, RED-BROWN, STONE FRAGMENTS WITH SAND AND SILT, TRACE CLAY, DAMP	749.5	8	4	10	35	SS-8	-	45	21	8	22	4	NP	NP	NP	12	A-2-4 (0)	
VERY DENSE, BROWN, TRACE GRAY, GRAVEL AND STONE FRAGMENTS, LITTLE SAND, TRACE SILT, TRACE CLAY, NOTED LIMESTONE FRAGMENTS, DAMP	747.0	9	13	15	55	SS-9	-	69	10	9	10	2	NP	NP	NP	4	A-1-a (0)	
VERY DENSE, BROWN, STONE FRAGMENTS WITH SAND, LITTLE SILT, TRACE CLAY, WET	744.5	10	40	24	71	SS-10	-	69	14	1	13	3	NP	NP	NP	16	A-1-b (0)	

PID: 77372 SFN:		PROJECT: FRA-70-13.11		STATION / OFFSET:		START: 11/27/23 END: 11/29/23		PG 3 OF 4		B-001-0-23									
MATERIAL DESCRIPTION AND NOTES																			
VERY DENSE, BROWN, COARSE AND FINE SAND, SOME SILT, LITTLE GRAVEL, TRACE CLAY, WET (continued)	ELEV. 716.2	DEPTH	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)	ATTERBERG	ODOT CLASS (GI)	HOLE SEALED								
		52																	
		53																	
		54	34	45	128	89	SS-17	-	20	24	30	23	3	NP	NP	NP	9	A-3a (0)	
		55																	
		56																	
		57																	
		58																	
VERY DENSE, GRAY, COARSE AND FINE SAND, SOME SILT, LITTLE GRAVEL, TRACE CLAY, WET	709.5	59	32	48	-	100	SS-18	-	19	25	25	28	3	NP	NP	NP	17	A-3a (0)	
		60																	
		61																	
		62																	
		63																	
VERY DENSE, GRAY, STONE FRAGMENTS WITH SAND AND SILT, TRACE CLAY, MOIST	704.5	64	45	50/3"	-	100	SS-19	-	46	20	8	22	4	NP	NP	NP	15	A-2-4 (0)	
		65																	
		66																	
		67																	
		68																	
VERY DENSE, GRAY, SANDY SILT, SOME GRAVEL, TRACE CLAY, WET	699.5	69	44	50/6"	-	83	SS-20	-	-	-	-	-	-	-	-	9	A-4a (V)		
		70																	
		71																	
		72																	
		73																	
		74	32	50/6"	-	75	SS-21	-	23	29	8	37	3	NP	NP	NP	12	A-4a (1)	
		75																	
		76																	
		77																	
		78																	

PID: 77372 SFN:		PROJECT: FRA-70-13.11		STATION / OFFSET:		START: 11/27/23 END: 11/29/23		PG 2 OF 4		B-001-0-23									
MATERIAL DESCRIPTION AND NOTES																			
VERY DENSE, BROWN, TRACE GRAY, GRAVEL AND STONE FRAGMENTS, SOME SAND, LITTLE SILT, TRACE CLAY, DAMP	ELEV. 743.0	DEPTH	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)	ATTERBERG	ODOT CLASS (GI)	HOLE SEALED								
		26	21	20	56	83	SS-11	-	60	14	12	13	1	NP	NP	NP	4	A-1-a (0)	
		27																	
		28																	
MEDIUM DENSE, BROWN TO GRAY, GRAVEL AND STONE FRAGMENTS WITH SAND, LITTLE SILT, TRACE CLAY, DAMP	739.5	29	9	8	20	56	SS-12	-	77	5	2	15	1	NP	NP	NP	5	A-1-b (0)	
		30																	
		31																	
		32																	
		33																	
HARD, BROWN, SILT AND CLAY, "AND" GRAVEL, LITTLE SAND, DAMP	734.5	34	13	14	45	100	SS-13	4.5+	-	-	-	-	-	-	-	-	10	A-8a (V)	
		35																	
		36																	
		37																	
		38																	
		39	17	25	85	100	SS-14	4.5+	38	7	8	34	13	31	18	13	10	A-8a (3)	
@40': added water to aid drilling		40																	
		41																	
		42																	
		43																	
VERY DENSE, BROWN, GRAVEL AND STONE FRAGMENTS, LITTLE SAND, LITTLE SILT, TRACE CLAY, DAMP	724.5	44	29	46	-	100	SS-15	-	69	10	8	11	2	NP	NP	NP	6	A-1-a (0)	
@46': switched to 4" casing @46.5' - 47': hard drilling		45																	
		46																	
		47																	
		48																	
VERY DENSE, BROWN, COARSE AND FINE SAND, SOME SILT, LITTLE GRAVEL, TRACE CLAY, WET	719.5	49	37	50/6"	-	92	SS-16	-	-	-	-	-	-	-	-	-	12	A-3a (V)	
		50																	
		51																	

PID: 77372 SFN:		PROJECT: FRA-70-13.11		STATION / OFFSET:		START: 11/27/23 END: 11/29/23		PG 4 OF 4		B-001-0-23									
MATERIAL DESCRIPTION AND NOTES																			
VERY DENSE, GRAY, SANDY SILT, SOME GRAVEL, TRACE CLAY, WET (continued)	ELEV. 689.5	DEPTH	SPT/RQD	N ₆₀	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)	ATTERBERG	ODOT CLASS (GI)	HOLE SEALED								
		79	27	50/4"	-	90	SS-22	-	-	-	-	-	-	-	-	-	15	A-4a (V)	
		80																	
		81																	
		82																	
		83																	
		84	36	35	99	94	SS-23	-	-	-	-	-	-	-	-	-	6	A-4a (V)	
		85																	
		86																	
		87																	
		88																	
		89	39	47	-	89	SS-24	-	-	-	-	-	-	-	-	-	10	A-4a (V)	
		90																	
		91																	
		92																	
		93																	
		94	27	43	126	89	SS-25	-	34	21	16	27	2	NP	NP	NP	8	A-2-4 (0)	
		95																	
		96																	
		97																	
		98																	
		99	36	46	128	78	SS-26	-	-	-	-	-	-	-	-	-	9	A-2-4 (V)	
		100																	

NO.	13	DESCRIPTION	ADDED 1405C BORING LOG	REV. BY	CWL	DATE	12-17-23
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NOTES: PLACED 50 LB HYDRATED BENTONITE CHIPS AND 94 LB DRY CEMENT (11/29/23), AND 640 LB DRY QUICKCRETE (11/30/23) AFTER GROUTING DUE TO GROUT SETTLEMENT. ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED ASPHALT PATCH, TREMIED 50 LB. BENTONITE POWDER, 94 LB. CEMENT, 100 GAL. WATER