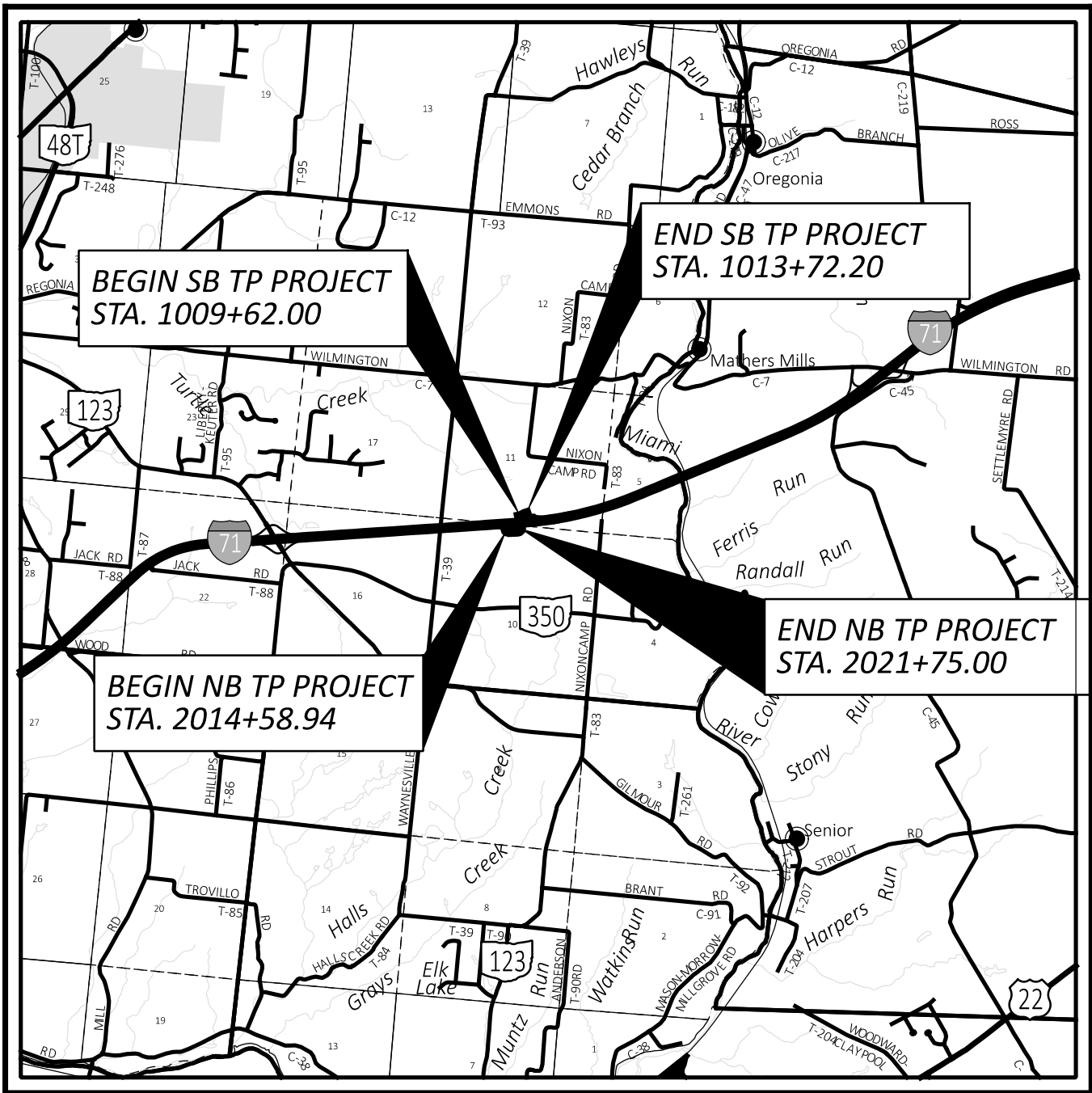
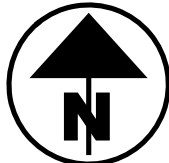




LOCATION MAP

LATITUDE: 39°24'54" LONGITUDE: -84°07'23"



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

DESIGN DESIGNATION

CURRENT ADT (2027)	51,500
DESIGN YEAR ADT (2047)	64,000
DESIGN HOURLY VOLUME (2027)	7,700
DIRECTIONAL DISTRIBUTION	65.7%
TRUCKS (24 HOUR B&C)	26%
DESIGN SPEED	75
LEGAL SPEED	70
DESIGN FUNCTIONAL CLASSIFICATION:	
01 - INTERSTATE (RURAL)	
NHS PROJECT	YES

DESIGN EXCEPTIONS

NONE

ADA DESIGN WAIVERS

NONE

UNDERGROUND UTILITIES

Contact Two Working Days Before You Dig


Before You Dig

OHIO811, 8-1-1, or 1-800-362-2764 (Non members must be called directly)

PLAN PREPARED BY:



STATE OF OHIO

DEPARTMENT OF TRANSPORTATION

WAR-IR 71 REST AREAS TP

TURTLE CREEK TOWNSHIP

WARREN COUNTY

INDEX OF SHEETS:

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I.R. 71 NB WEST REST AREA TP	P.80 - P.93
I.R. 71 NB EAST REST AREA TP	P.94 - P.112
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TRUCK PARKING ISLAND ELEVATION DETAILS	P.124 - P.129
CONCRETE PAVEMENT JOINT DETAILS	P.130 - P.140
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MAINTENANCE VEHICLE PARKING AND DUMPSTER PAD DETAILS	P.145 - P.148
DRIVE DETAILS	P.149 - P.150
DRAINAGE DETAILS	
STORM SEWER PROFILES	P.151 - P.159
CULVERT DETAILS	P.160
BMP DETAILS	P.161 - P.164
WATER WORK	P.165 - P.168
TRAFFIC CONTROL	P.169 - P.176
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ENCLOSURE DETAIL	P.192
FENCE PLAN	P.193 - P.196
GEOTECHNICAL PROFILE - ROADWAY	P.197 - P.205

STANDARD CONSTRUCTION DRAWINGS								SUPPLEMENTAL SPECIFICATIONS		SPECIAL PROVISIONS	
BP-1.1	7/28/00	DM-4.2	7/20/12	RD-4.1	7/17/26	HL-20.11	1/16/26	MT-103.20	1/16/26	800-2023	7/17/26
BP-2.1	1/21/22	DM-4.3	1/15/16	RD-5.1	7/17/26	HL-20.21	1/16/26	MT-105.10	1/17/20	813	7/21/23
BP-2.2	1/16/26	DM-4.4	1/15/16	RD-7.1	7/17/26	HL-30.11	1/16/26			821	4/20/18
BP-2.5	1/16/26					HL-30.22	1/17/25	TC-41.20	10/18/13	825	7/19/24
BP-3.1	1/19/24	F-2.1	7/20/18	RM-3.1	7/20/18	HL-40.10	1/16/26	TC-41.30	4/21/23	832	7/18/25
BP-8.1	7/19/24	F-3.3	7/19/13	RM-5.1	7/18/14	HL-40.20	7/18/25	TC-41.50	10/18/13	878	1/16/26
		F-3.4	7/19/13			HL-60.11	7/21/17	TC-42.10	10/18/13	902	1/16/26
CB-1	7/19/24			WQ-1.1	7/21/23	HL-60.31	1/16/26	TC-42.20	10/18/13	913	4/16/21
CB-2-2A, 2B, 2C	7/19/24	I-2	7/19/24	WQ-1.2	1/15/16			TC-52.10	10/18/13		
CB-2-3, 2-4	7/19/24					MT-95.45	7/21/23	TC-52.20	1/15/21		
CB-3	7/17/26	MGS-2.1	7/17/26	HW-2.1	7/15/22	MT-95.50	7/21/17	TC-61.30	7/19/24		
CB-3A	7/17/26	MGS-4.2	7/17/26	HW-2.2	7/20/18	MT-98.28	1/17/20	TC-71.10	1/16/26		
		MGS-4.3	7/18/25			MT-98.29	1/17/20	TC-74.10	1/16/26		
DM-1.1	7/17/26	MGS-5.2	7/17/26	HL-10.11	1/16/26	MT-101.60	1/17/25				
DM-1.2	1/17/25			HL-10.12	1/16/26	MT-101.90	7/17/20				
DM-4.1	7/17/26	MH-3	7/19/24	HL-10.13	1/20/23	MT-103.10	7/18/25				

FEDERAL PROJECT NUMBER

NON-FEDERAL

RAILROAD INVOLVEMENT

NONE

PROJECT DESCRIPTION

THIS PROJECT ADDS ADDITIONAL TRUCK PARKING FACILITIES TO TWO REST AREA LOCATIONS ALONG NORTHBOUND AND SOUTHBOUND I.R. 71 IN WARREN COUNTY. THE PROJECT INCLUDES FULL DEPTH PAVEMENT, MINOR WIDENING, DRAINAGE INSTALLATION WITHIN TRUCK PARKING FACILITIES, PAVEMENT MARKING AND SIGNING.

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA:	23.90 ACRES
ESTIMATED CONTRACTOR EARTH DISTURBED AREA:	3.40 ACRES
NOTICE OF INTENT EARTH DISTURBED AREA:	27.30 ACRES

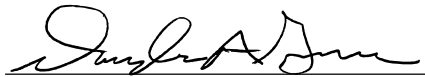
LIMITED ACCESS

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.

2023 SPECIFICATIONS

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

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL NOT REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY EXCEPT FOR THE REST AREA RAMPS AS DESCRIBED ON SHEET P.19 AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.


Douglas A. Gruver, P.E.
District 08 Deputy Director


Pamela Boratyn
Director, Department of Transportation

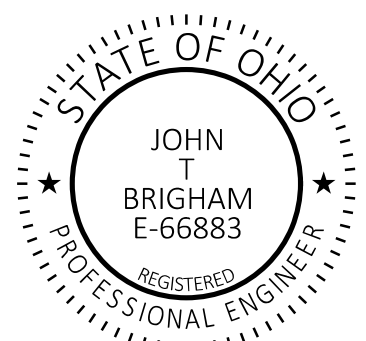
ENGINEER'S SEAL

ENTIRE PLAN EXCEPT LIGHTING



ENGINEER'S SEAL

LIGHTING



DESIGN AGENCY



DESIGNER

DI

REVIEWER

CAG 07/01/26

PROJECT ID

122893

SHEET

P.1

TOTAL

205

LEGEND

- 1

NOT USED
- 2

NOT USED
- 3

NOT USED
- 4

NOT USED
- 5

NOT USED
- 6

ITEM 304 - 6" AGGREGATE BASE
- 7

ITEM 206 - CURING COAT
- 8

ITEM 206 - CEMENT STABILIZED SUBGRADE, 12 INCHES DEEP
- 9

ITEM 605 - 6" BASE PIPE UNDERDRAINS
W/ GEOTEXTILE FABRIC
- 10

ITEM 608 - 4" CONCRETE WALK
- 11

ITEM 659 - SEEDING AND MULCHING
- 12

ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE, 4"
- 13

ITEM 609 - CURB, TYPE 7
- 14

ITEM 601 - TIED CONCRETE BLOCK MAT WITH W/ TYPE 1
UNDERLAYMENT
- 18

ITEM 606 - GUARDRAIL, TYPE MGS
- 19

ITEM 452 - 8" NON-REINFORCED CONCRETE PAVEMENT,
CLASS QC 1P WITH QC/QA
- 20

ITEM 204 - EXCAVATION OF SUBGRADE, 12"
ITEM 204 - GRANULAR MATERIAL, TYPE C
- 21

ITEM 204 - GEOTEXTILE FABRIC, TYPE D, 712.09
- 26

ITEM 609 - 4" CONCRETE MEDIAN
- 27

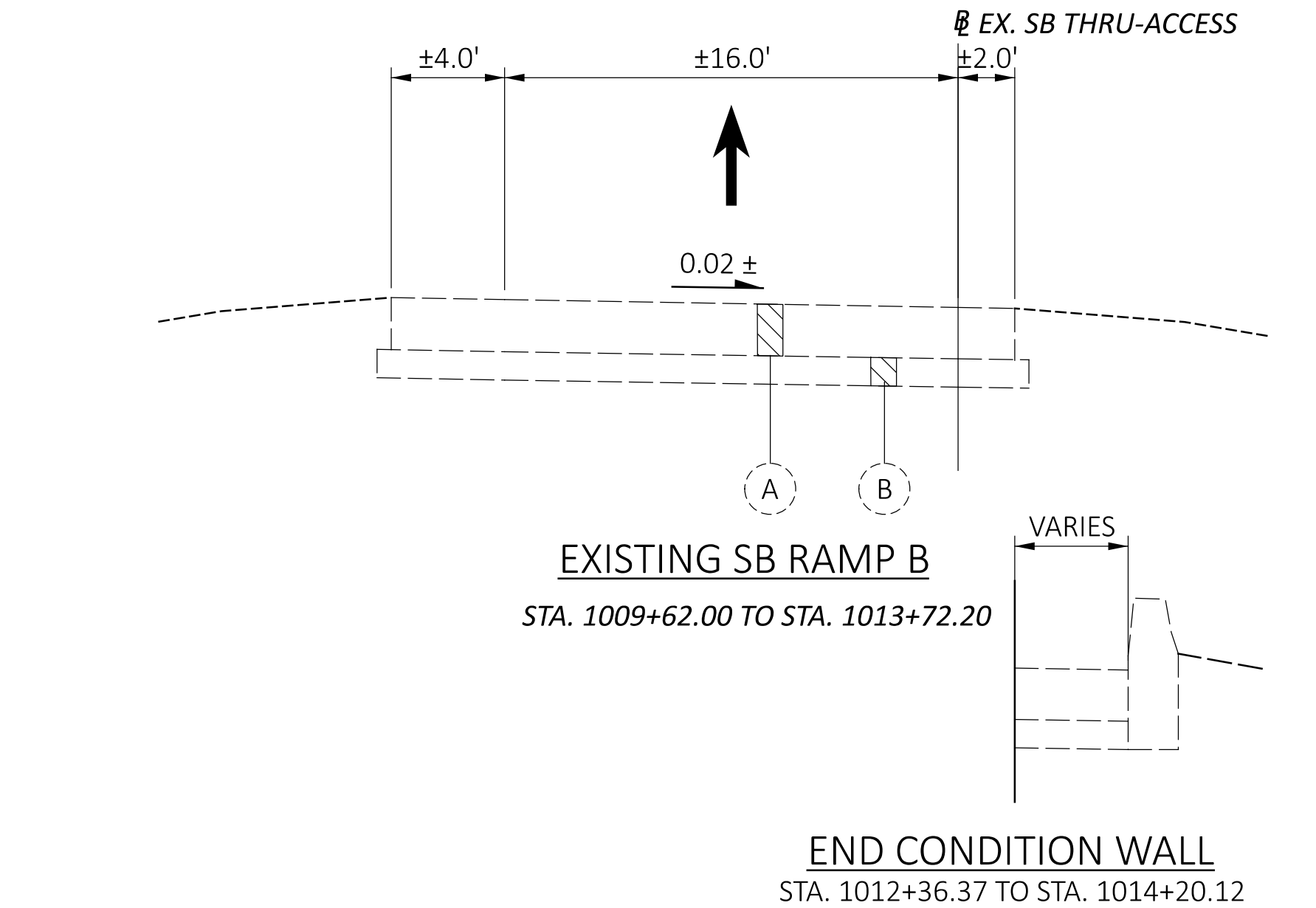
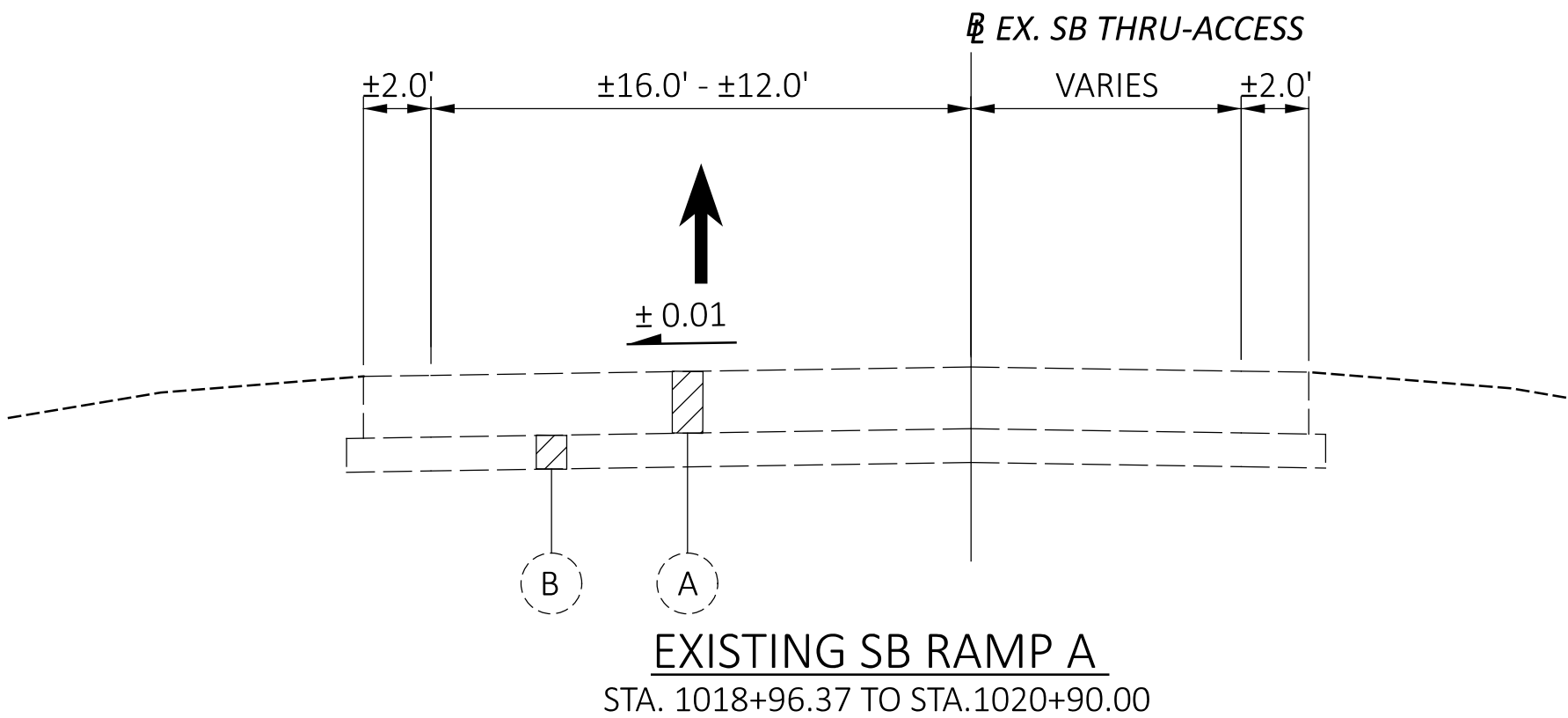
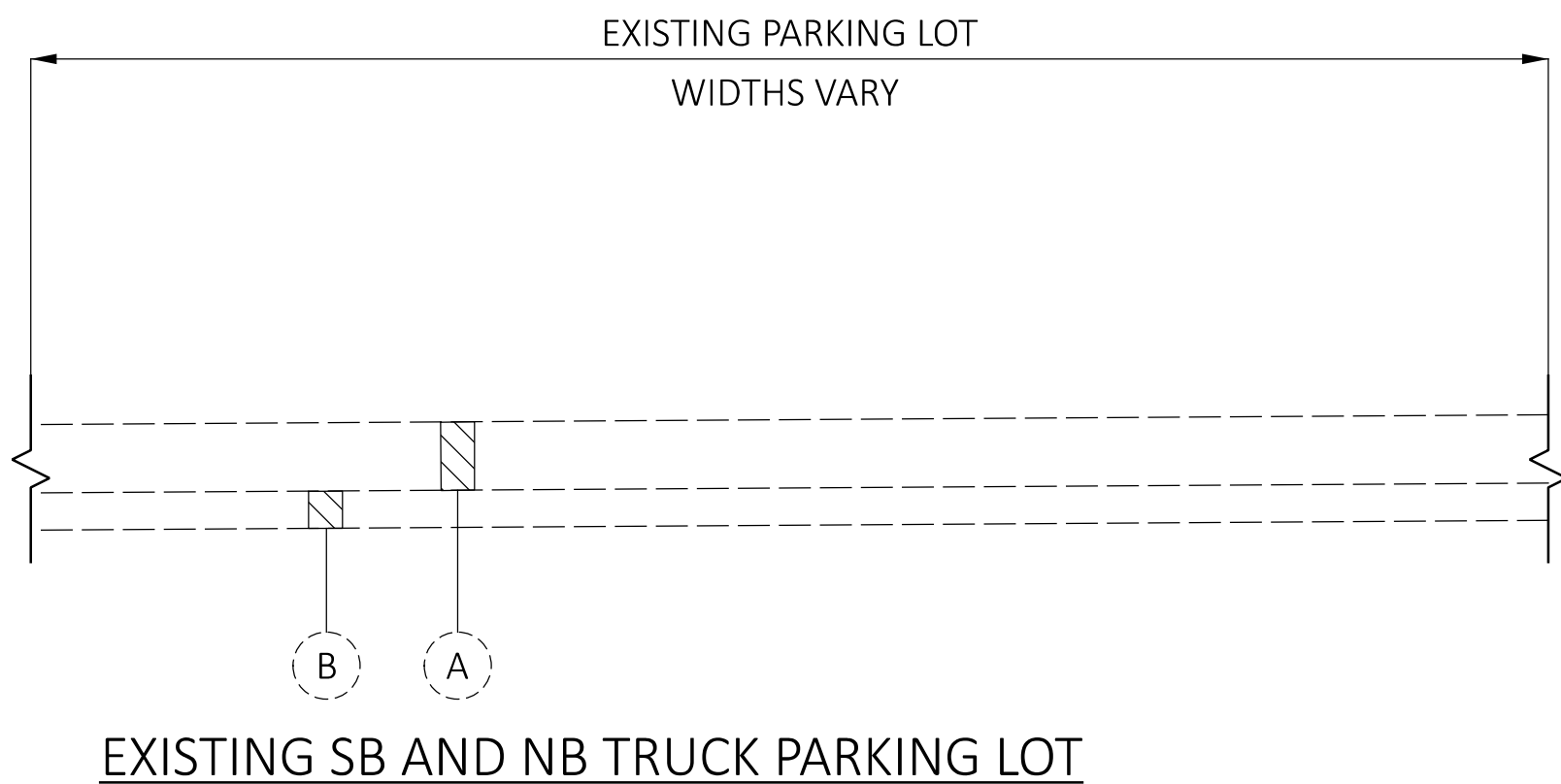
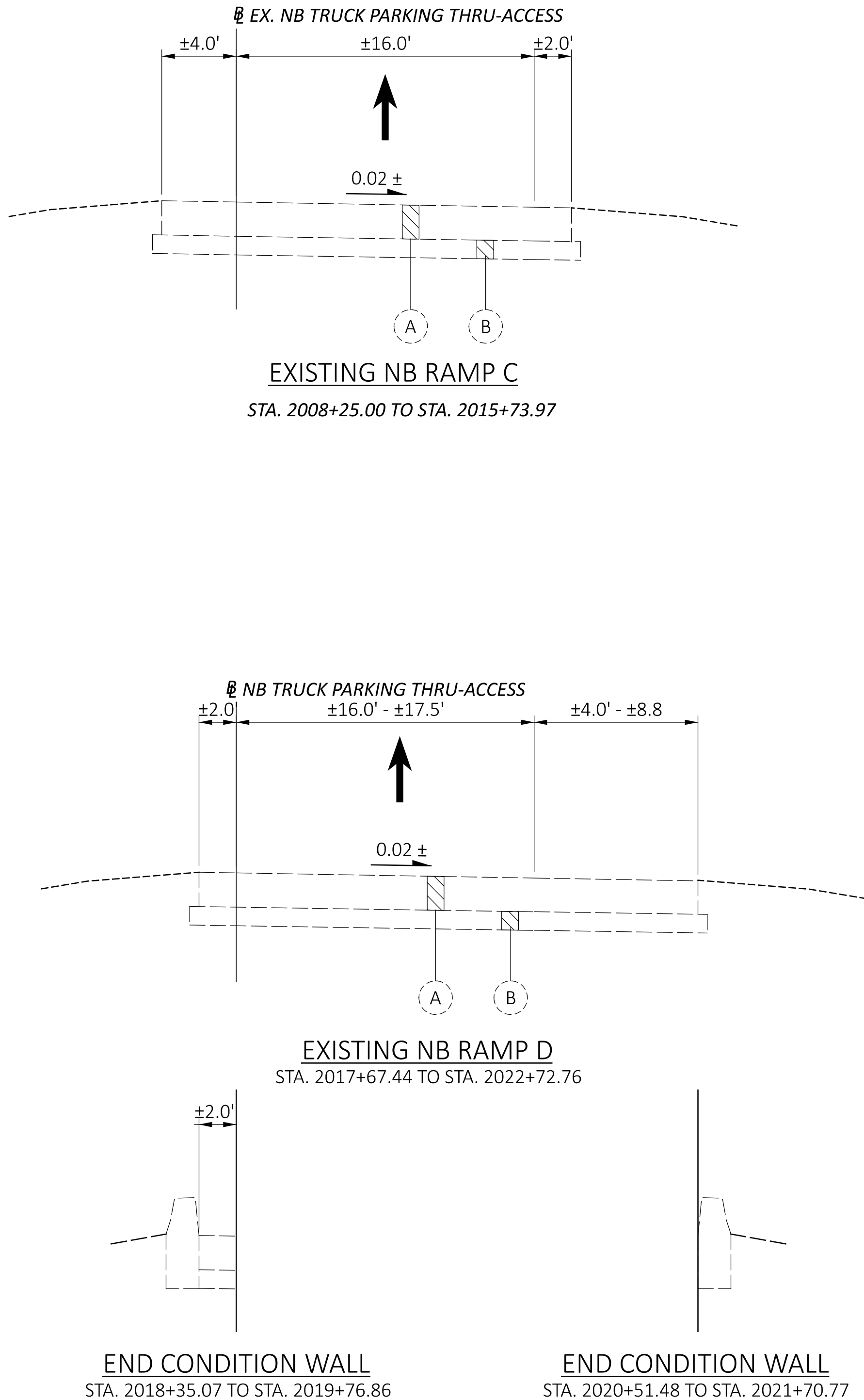
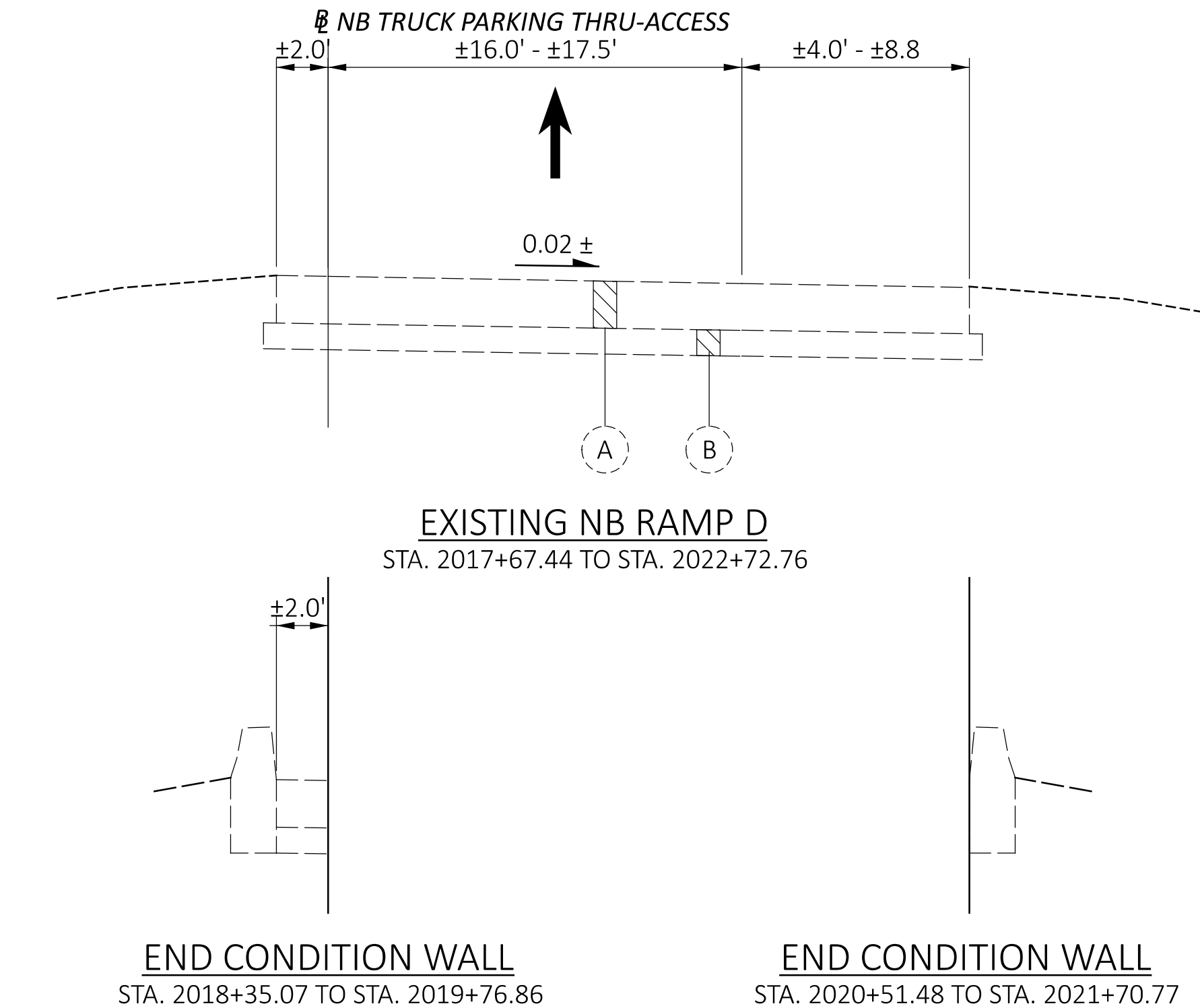
ITEM 304 - 4" AGGREGATE BASE
- 31

ITEM 411 - 10" STABILIZED CRUSHED AGGREGATE
- 32

ITEM 203 - 4" GRANULAR MATERIAL, TYPE E, AS PER PLAN
- A

EX. 11" ± NON-REINFORCED CONCRETE
- B

EX. 6" ± AGGREGATE BASE



SHEET NUMBER														PART.	ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
OFFICE CALCS	P.17	P.18	P.23	P.24	P.25	P.26	P.27	P.28	P.160	P.196				01/NFP						
																			ROADWAY	
														LS	201	11000	LS		CLEARING AND GRUBBING	
			2,335											2,335	202	23000	2,335	SY	PAVEMENT REMOVED	
			2,867											2,867	202	30000	2,867	SF	WALK REMOVED	
			1,038											1,038	202	35100	1,038	FT	PIPE REMOVED, 24" DIAMETER AND UNDER	
			120											120	202	38000	120	FT	GUARDRAIL REMOVED	
			3											3	202	58100	3	EACH	CATCH BASIN REMOVED	
		250								1,984				250	SPECIAL	20270110	250	FT	PIPE CLEANOUT, 24" AND UNDER	P.18
										3				1,984	202	75000	1,984	FT	FENCE REMOVED	
														3	202	75250	3	EACH	GATE REMOVED	
			2											2	202	75610	2	EACH	VALVE BOX REMOVED	
			LS											LS	202	98000	LS		REMOVAL MISC.: BENCH AND TRASH CAN REMOVED AND SALVAGED	P.18
			15											15	202	98100	15	EACH	REMOVAL MISC.: BOLLARDS REMOVED	P.18
			5											5	202	98100	5	EACH	REMOVAL MISC.: ROCKS REMOVED	P.18
			3											3	202	98100	3	EACH	REMOVAL MISC.:CONCRETE PAD REMOVED	P.18
			2											2	202	98100	2	EACH	REMOVAL MISC.:POST REMOVED	P.17
			1											1	202	98100	1	EACH	REMOVAL MISC.:TELECOM PULL BOX REMOVED	P.18
			111											111	202	98200	111	FT	REMOVAL MISC.: WALL REMOVED	P.17
			489											489	202	98300	489	SY	REMOVAL MISC.: ASPHALT PILES	P.18
			204											204	202	98300	204	SY	REMOVAL MISC.: ROCK PILES	P.18
			38											38	202	98300	38	SY	REMOVAL MISC.:CINDER BLOCKS	P.18
			48											48	202	98300	48	SY	REMOVAL MISC.:RIP RAP REMOVED	P.17
28,984														28,984	203	10000	28,984	CY	EXCAVATION	
47,707														47,707	203	20000	47,707	CY	EMBANKMENT	
				42										42	203	35141	42	CY	GRANULAR MATERIAL, TYPE E, AS PER PLAN	P.17
				453										453	204	10000	453	SY	SUBGRADE COMPACTION	
166														166	204	13000	166	CY	EXCAVATION OF SUBGRADE, 12"	
166														166	204	30020	166	CY	GRANULAR MATERIAL, TYPE C	
	33													33	204	45000	33	hour	PROOF ROLLING	
496														496	204	50000	496	SY	GEOTEXTILE FABRIC, TYPE D, 712.09	
1,724														1,724	206	10500	1,724	TON	CEMENT	
66,539														66,539	206	11000	66,539	SY	CURING COAT	
66,539														66,539	206	15010	66,539	SY	CEMENT STABILIZED SUBGRADE, 12 INCHES DEEP	
														LS	206	30000	LS		MIXTURE DESIGN FOR CHEMICALLY STABILIZED SOILS	
				200										200	606	15050	200	FT	GUARDRAIL, TYPE MGS	
				1										1	606	20050	1	EACH	ROUNDED END SECTION	
				1										1	606	26550	1	EACH	ANCHOR ASSEMBLY, MGS TYPE T	
										5,663				5,663	607	15100	5,663	FT	FENCE, TYPE 47RA	
										2				2	607	40501	2	EACH	GATE, TYPE 47, AS PER PLAN	P.17
				147										147	607	98000	147	FT	FENCE, MISC.: WOODEN SLAT FENCE	P.17
				8,176										8,176	608	10000	8,176	SF	4" CONCRETE WALK	
				1,587										1,587	608	52000	1,587	SF	CURB RAMP	
				10										10	608	53020	10	SF	DETECTABLE WARNING	
														LS	623	50000	LS		PRECONSTRUCTION SURVEY MONUMENT VERIFICATION AND REPORT	
														LS	623	51000	LS		POST CONSTRUCTION SURVEY MONUMENT VERIFICATION AND REPORT	
5,279														5,279	651	10000	5,279	CY	TOPSOIL STOCKPILED	
				46										46	SPECIAL	69050600	46	EACH	BOLLARD	P.17
														9	601	10000	9	SY	RIPRAP USING 6" REINFORCED CONCRETE SLAB	P.160
	7						1,218	5	9					1,240	601	21050	1,240	SY	TIED CONCRETE BLOCK MAT WITH TYPE 1 UNDERLAYMENT	
					28	18	62		10					111	601	32200	111	CY	ROCK CHANNEL PROTECTION, TYPE C WITH FILTER	
							1,556		3					1,556	601	45030	1,556	SY	DETENTION BASIN FILTER	
	2													2	659	00100	2	EACH	SOIL ANALYSIS TEST	
	7,777													7,777	659	00300	7,777	CY	TOPSOIL	
	70,056													70,056	659	10000	70,056	SY	SEEDING AND MULCHING	
	3,503													3,503	659	14000	3,503	SY	REPAIR SEEDING AND MULCHING	
	3,503													3,503	659	15000	3,503	SY	INTER-SEEDING	
	9.78													9.78	659	20000	9.78	TON	COMMERCIAL FERTILIZER	

GENERAL SUMMARY

DESIGN AGENCY



DESIGNER

JDK

REVIEWER

CAG 07/01/26

PROJECT ID

122893

SHEET

P.20

TOTAL

205

MODEL: Sheet PAPER:SIZE: 34x22 (in.) DATE: 9/16/2026 TIME: 11:30:50 AM PLTDRV: OHDOT_PDF.plt PENTBL: OHDOT_Pen.tbl USER: josh.kinnear@woolpert.com WORKSPACE: OHDOTCEV02 WORKSET: 122893 PRODUCT: OpenRoadsDesigner 24.00.02.25
pww:\ohdot\pww.bentley.com:\ohdot\pww-02\Documents\01 Active Projects\District 08\Warren\122893\401-Engineering_Woodpert\Roadway\Sheets\122893_GS001.dgn

REF NO.	SHEET NO.	STATION TO STATION					202	202	202	202	202	202	202	202	202	202	202	202	202	202	638						
							REMOVAL MISC.:TELECOM PULL BOX REMOVED	GUARDRAIL REMOVED	REMOVAL MISC.: BENCH AND TRASH CAN REMOVED AND SALVAGED	REMOVAL MISC.:CONCRETE PAD REMOVED	WALK REMOVED	REMOVAL MISC.:RIP RAP REMOVED	REMOVAL MISC.:POST REMOVED	PAVEMENT REMOVED	REMOVAL MISC.: WALL REMOVED	REMOVAL MISC.: ROCKS REMOVED	REMOVAL MISC.: BOLLARDS REMOVED	REMOVAL MISC.: ASPHALT PILES	REMOVAL MISC.:CINDER BLOCKS	REMOVAL MISC.: ROCK PILES	PIPE REMOVED, 24" DIAMETER AND UNDER	CATCH BASIN REMOVED	VALVE BOX REMOVED	FIRE HYDRANT REMOVED			
							EACH	FT	LS	EACH	SF	SY	EACH	SY	FT	EACH	EACH	SY	SY	SY	FT	EACH	EACH	EACH			
		SB SITE																									
R-1	P.32	1009+52	LT	TO	1010+93	LT		120				1	1														
R-2	P.32	1011+46					LT			1																	
R-3	P.33	1011+99					LT					1															
R-4	P.33	1012+39	LT	TO	1013+31	LT				770																	
R-5	P.33	1014+05	LT	TO	1014+13	LT					22																
R-6	P.33	1014+35	LT	TO	1014+63	LT					26																
R-9	P.33	1011+84	LT	TO	1012+44	LT						8															
R-10	P.33	1013+60	LT	TO	1013+72	LT						2															
R-7	P.37	1014+24	LT	TO	1015+62	LT			LS	2	694																
		NB WEST SITE																									
R-33	P.42	601+73					LT	1																			
R-37	P.42	603+31					LT														1						
R-12	P.42	2014+11	RT	TO	608+12	RT													704		1	1					
R-13	P.42	602+36	RT	TO	603+43	RT													151	1							
R-35	P.43	605+60	RT	TO	606+33	RT													73								
R-36	P.43	605+70	RT	TO	606+24	RT						205															
R-14	P.42	2011+79	RT	TO	2012+18	RT						4															
R-15	P.42	2013+80	RT	TO	2014+71	RT						17															
R-16	P.42	2015+33	RT	TO	2015+49	RT						2															
R-32	P.42	2015+71	RT	TO	2015+75	RT						1															
		NB EAST SITE																									
R-17	P.46	2018+18	RT	TO	2019+00	RT									15												
R-18	P.46 - P.57	800+31	LT & RT	TO	801+35	LT & RT			1403																		
R-19	P.45 - P.49	800+28	LT	TO	807+59	LT					2002																
R-20	P.46 - P.57	815+25	RT	TO	815+43	RT								5													
R-21	P.48	805+32	RT	TO	805+66	RT										55											
R-22	P.48	806+48	LT & RT	TO	806+95	LT & RT												204									
R-23	P.49	810+22	LT	TO	811+93	LT										434											
R-24	P.48	805+02	LT	TO	805+67	LT											34										
R-25	P.48	805+53	LT	TO	805+61	LT											4										
R-34	P.48	806+55	LT	TO	806+84	LT													29								
R-26	P.46	2021+14	RT	TO	2021+28	RT													15	1							
R-27	P.46	2019+09	RT	TO	2022+72	RT						93	111														
R-28	P.46 - P.47	800+88	LT	TO	801+53	LT													66	1							
R-38	P.46	800+83	RT	TO	800+90	RT			LS																		
TOTALS CARRIED TO GENERAL SUMMARY							1	120	LS	3	2867	48	2	2335	111	5	15	489	38	204	1038	3	2	1			

REMOVALS SUBSUMMARY

DESIGN AGENCY



DESIGNER
JDK

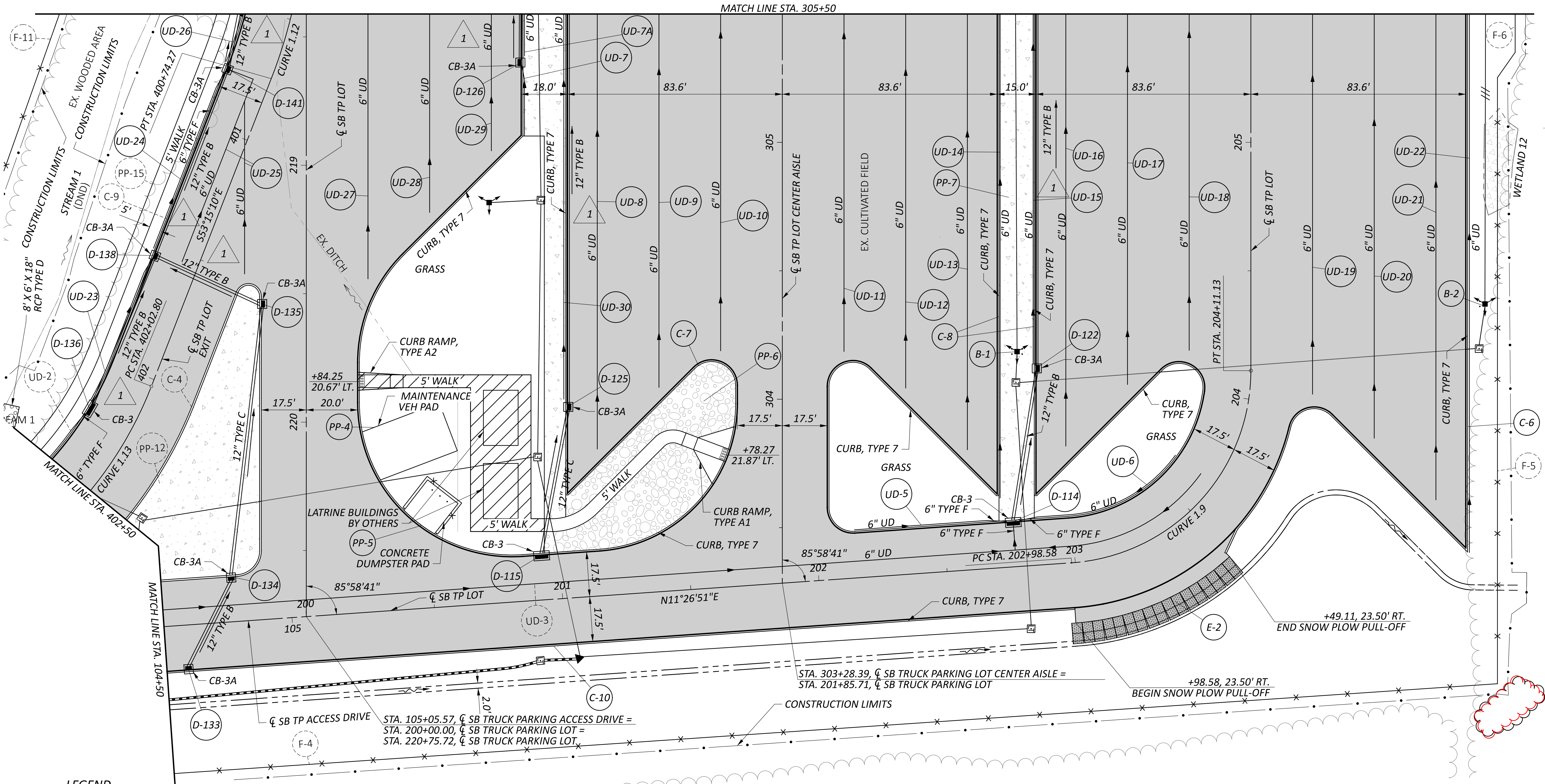
REVIEWER
CAG 07/01/26

PROJECT ID
122893

SHEET
P.23

TOTAL
205

CROSS REFERENCES	
SHEET NO.	DESCRIPTION
P.2 - P.3	SCHEMATIC PLAN
P.23 - P.28	ESTIMATED QUANTITIES
P.151 - P.159	STORM SEWER PROFILES
P.38 - P.41	I.R. 71 SB REST AREA TP PROFILES
P.160	CULVERT DETAILS

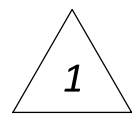


LEGEND

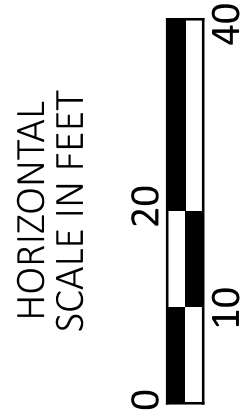
- CONCRETE MEDIANS
- FULL DEPTH PAVEMENT
- TIED CONCRETE BLOCK MAT WITH TYPE 1 UNDERLAYMENT
- WORK TO BE COMPLETED BY OTHERS
- ROCK CHANNEL PROTECTION
- ITEM 203 - GRANULAR MATERIAL, TYPE E, AS PER PLAN
- ITEM 670 - SLOPE EROSION PROTECTION
- WETLAND

NOTE:

- DO NOT DISTURB EXISTING FEATURES WITHIN CONSTRUCTION LIMITS UNLESS OTHERWISE STATED IN THE PLANS.
- SEE SCHEMATIC FOR CURVE DATA.
- SEE LIGHTING PLANS FOR LIGHTING DETAILS AND QUANTITIES.
- SEE DRIVE DETAILS FOR CURVE DATA AND STATIONS.



UTILITY NOT TO BE DISTURBED; OMIT CEMENT STABILIZATION OVER UTILITY



PLAN - I.R. 71 SB REST AREA TP
PARKING LOT - STA. 104+50.00 TO STA. 305+50.00

DESIGN AGENCY



DESIGNER

NAB

REVIEWER

CAG 07/01/26

PROJECT ID

122893

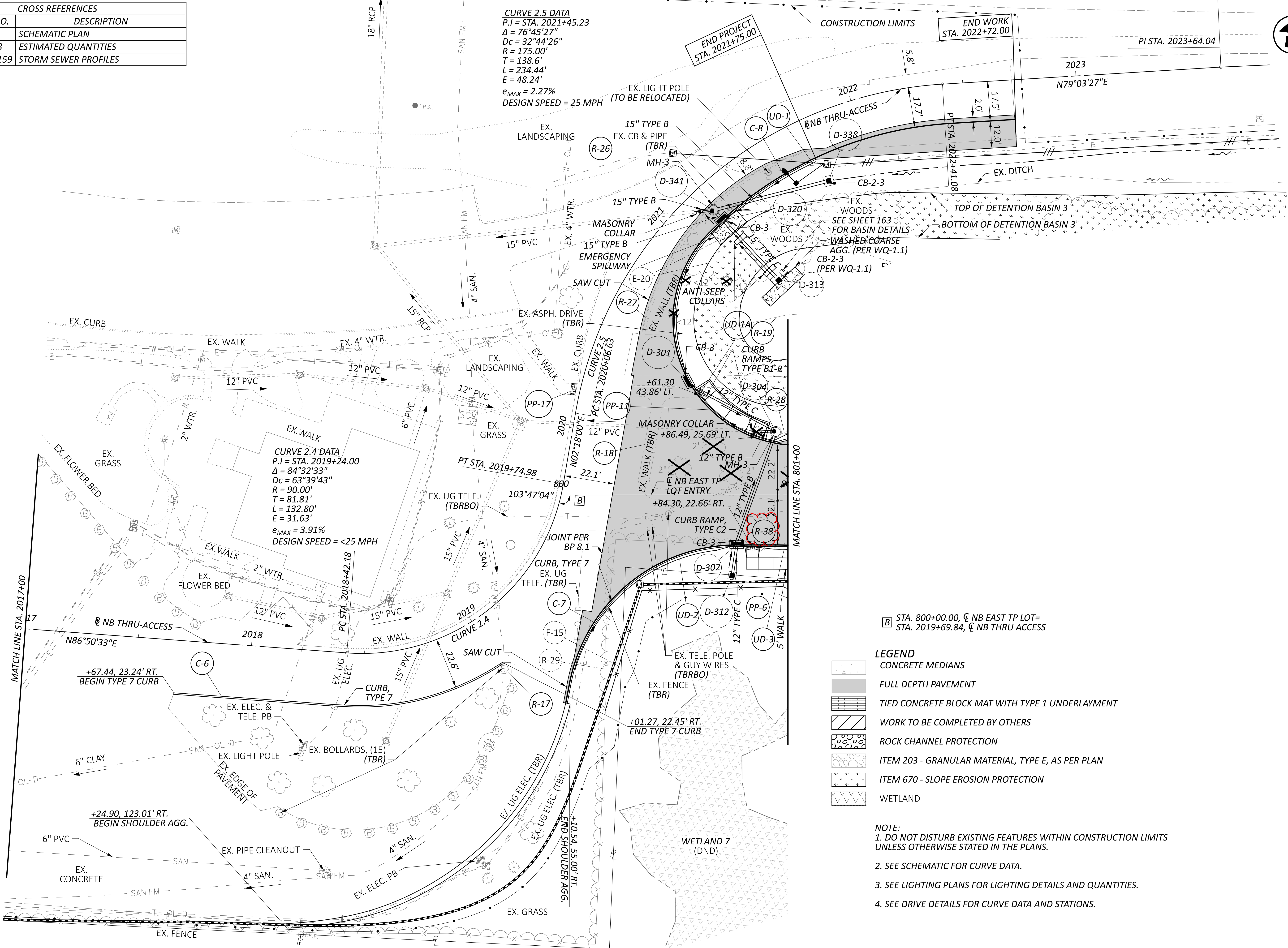
SHEET

P.34

TOTAL

205

CROSS REFERENCES	
SHEET NO.	DESCRIPTION
P.2 - P.3	SCHEMATIC PLAN
P.23 - P.28	ESTIMATED QUANTITIES
P.151 - P.159	STORM SEWER PROFILES



[B] STA. 800+00.00, ϕ NB EAST TP LOT=
STA. 2019+69.84, ϕ NB THRU ACCESS

- LEGEND**
- CONCRETE MEDIANS
 - FULL DEPTH PAVEMENT
 - TIED CONCRETE BLOCK MAT WITH TYPE 1 UNDERLAYMENT
 - WORK TO BE COMPLETED BY OTHERS
 - ROCK CHANNEL PROTECTION
 - ITEM 203 - GRANULAR MATERIAL, TYPE E, AS PER PLAN
 - ITEM 670 - SLOPE EROSION PROTECTION
 - WETLAND

- NOTE:**
- DO NOT DISTURB EXISTING FEATURES WITHIN CONSTRUCTION LIMITS UNLESS OTHERWISE STATED IN THE PLANS.
 - SEE SCHEMATIC FOR CURVE DATA.
 - SEE LIGHTING PLANS FOR LIGHTING DETAILS AND QUANTITIES.
 - SEE DRIVE DETAILS FOR CURVE DATA AND STATIONS.

PLAN - I.R. 71 NB REST AREA TP
STA. 2017+00.00 TO STA. 2022+25.00 & EAST PARKING LOT

HORIZONTAL
SCALE IN FEET
0 20 40

DESIGN AGENCY
WOOLPERT

DESIGNER
NAB

REVIEWER
CAG 07/01/26

PROJECT ID
122893

SHEET
P.46

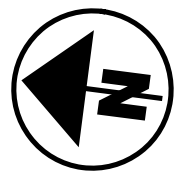
TOTAL
205

CROSS REFERENCES	
SHEET NO.	DESCRIPTION
P.2 - P.3	SCHEMATIC PLAN
P.23 - P.28	ESTIMATED QUANTITIES
P.151 - P.159	STORM SEWER PROFILES
P.50 - P.51	I.R. 71 NB EAST REST AREA TP PROFILES

1 UTILITY NOT TO BE DISTURBED; OMIT CEMENT STABILIZATION OVER UTILITY

LEGEND	
	CONCRETE MEDIANS
	FULL DEPTH PAVEMENT
	EROSION CONTROL
	WORK TO BE COMPLETED BY OTHERS
	ROCK CHANNEL PROTECTION
	ITEM 203 - GRANULAR MATERIAL, TYPE E, AS PER PLAN
	ITEM 670 - SLOPE EROSION PROTECTION

NOTE:
1. DO NOT DISTURB EXISTING FEATURES WITHIN CONSTRUCTION LIMITS UNLESS OTHERWISE STATED IN THE PLANS.
2. SEE SCHEMATIC FOR CURVE DATA.
3. SEE LIGHTING PLANS FOR LIGHTING DETAILS AND QUANTITIES.
4. SEE DRIVE DETAILS FOR CURVE DATA AND STATIONS.



PLAN - I.R. 71 NB REST AREA TP
EAST PARKING LOT - STA. 804+15 TO STA. 807+15 & STA .812+35 TO STA. 815+40

DESIGN AGENCY	
DESIGNER	
NAB	
REVIEWER	
CAG 07/01/26	
PROJECT ID	
122893	
SHEET	TOTAL
P.48	205



SPECIAL PROVISIONS

Environmental Commitments

**C-R-S: WAR-IR 71 Rest
Areas TP**

PID: 122893

DATE: 9/30/2026

Notice: this project has been developed under the federal national environmental policy act. The following requirements on the work are mandated to be carried out by the contractor in order to remain compliant with applicable laws. Failure of the contractor to adhere to the requirements listed will result in work stoppage, penalties, project delay, and fines.

Environmental Commitments

1. The project is located within the known habitat ranges of the federally endangered Indiana bat and northern long-eared bat, and the state endangered little brown and tricolored bats. No trees shall be removed under this project from April 1 through September 30. All necessary tree removal shall occur from October 1 through March 31. This requirement is necessary to avoid and minimize impacts to these species as required by the Endangered Species Act and ORC 1531.25. For the purposes of this note, a tree is defined as a live, dying, or dead woody plant, with a trunk three inches or greater in diameter at a height of 4.5 feet above the ground surface, and with a minimum height of 13 feet.
2. ODOT will acquire all necessary waterway permits prior to the start of construction. Conditions of these permits will be provided in the contract as Special Provisions. ODOT will provide the waterway permits to the Contractor at the pre-construction meeting. The Contractor is responsible for following all the Special Provisions of the waterway permits throughout the duration of the contract.

Project Inspection

1. Inspection of Work may include inspection by ODOT and representatives of other government agencies or railroad corporations that pay a portion of the cost of the Work or regulate the Work through State and Federal law. Comments from the representatives of these agencies shall be directed to the Engineer who will immediately contact the ODOT-District Environmental Coordinator.

Waterway Permits

1. Time Restrictions:

Nationwide Permit #39 (Commercial and Institutional Developments) is **pending** for WAR-IR 71 Rest Areas TP, PID 122893. **Temporary and permanent fill activities in aquatic resources are not authorized until the Nationwide Permit is authorized.** A copy of the Nationwide Permit will be provided upon authorization and shall be kept at the work site at all times and made available to all contractors and subcontractors.

For authorized work in aquatic resources (including streams, wetlands, jurisdictional ditches, captured streams, lakes, ponds), the Department will consider the Contractor's submission of a reauthorization to the waterway permit expiration date based on project constraints. If more than one permit is authorized for the project, then all permits become invalid once the first permit expires. In order for the request to be considered, the Contractor must submit a justification to the Engineer at least 90 days prior to the waterway permit expiration date. The Engineer will submit the request for a time extension to the Ohio Department of Transportation, Office of Environmental Services, Waterway Permits Unit (ODOT-OES-WPU) for consideration and coordination with the U.S. Army Corps of Engineers (USACE), Ohio Environmental Protection Agency (OEPA), U.S. Coast Guard (USCG), U.S. Fish and Wildlife Service (USFWS), and Ohio Department of Natural Resources (ODNR) as appropriate.

2. Deviations From Permitted Construction Activities:

Nationwide Permit authorization is pending. Once authorization is received, no deviation from the requirements for work in aquatic resources depicted in the plans, Special Provisions, and/or Working Drawings may be made unless a modification has been submitted to ODOT-OES-WPU and approved by the appropriate agencies (i.e., USACE, OEPA, USCG, ODNR, and USFWS).

NOTE: The plan sheets submitted with the Pre-Construction Notification are **pending approval by the USACE** and are included in these Special Provisions.

For emergency situations resulting in unanticipated impacts to aquatic resources, provide notification (verbal or written) to the Engineer as soon as possible following discovery of the situation. Written notification to the Engineer and notification to the ODOT-OES-WPU (614-466-2159) must be made within 24 hours.

For non-emergency situations, notify the Engineer in writing for submission to the ODOT-OES-WPU (614-466-2159) for consideration and coordination with the appropriate agencies. Notification must be made at least 90 days prior to planned, non-permitted activities. Consideration of the requested deviation is at the discretion of the Director and must be coordinated with the appropriate regulatory agencies.

3. In-Stream Work Restrictions:

Work in the following aquatic resources is further restricted as follows:

Stream Name/Description	Location	Work restriction dates (No in-stream work permitted)
Stream 1	SB TP Access Drive STA 103+40 to 104+25 SB TP Lot STA 216+90 to 217+90	None

*Restriction dates do not apply if the stream has been dewatered prior to April 15.

In-stream work has been defined as the placement and/or removal of fill materials (temporary or permanent) below ordinary high water of a stream. Examples of “fill” include, but are not limited to: bridge piers, abutments, culverts, rock channel protection, scour protection, and temporary access fills.

Fills placed within a stream identified in the above table (outside of the work restriction dates) can continue to be worked from during the work restriction dates, but cannot be expanded, removed, or otherwise modified (below ordinary high water) until once again outside of the work restriction dates.

4. Materials

Materials utilized in or adjacent to aquatic resources for temporary or permanent fill or bank protection shall consist of suitable material free from toxic contaminants in other than trace quantities. Asphalt products are specifically excluded for use as fill. Chromated Copper Arsenate (CCA), creosote, and other pressure treated lumber shall not be used in structures that are placed in aquatic resources.

5. Aquatic Resource Demarcation:

The tables attached (Tables 3 and 4) include detailed fill quantities authorized within aquatic resources, **pending Nationwide Permit authorization**. Aquatic resources not authorized for impact by these Special Provisions shall be demarcated in the field as per SS 832 prior to site

disturbance. The fence shall remain in place and be maintained throughout the construction process. Following the completion of the project, the fence and posts shall be removed.

6. Spill containment:

Provide and Maintain an Oil Spill Kit with a minimum capacity of 65 gallons. The Spill Kit shall contain:

- 6 - 3 in. X 8 ft. Oil only socks
- 4 - 18 in. X 18 in. Oil only pillows
- 2 - 5 in. X 10ft. Booms
- 50 - 16in. X 20 in. Oil only pads
- 10- Disposable Bags
- 1 - 65 Gallon drum with lid
- 25 pounds of Granular Oil Absorbent

The Oil Spill Kit shall be located within 150 feet of any equipment working in a stream or wetland. The oil Spill Kit shall be maintained for the life of the contract. Any materials utilized during the project will be replaced within 48 hours. All costs associated with furnishing and maintaining the above referenced spill containment kit is incidental to work.

7. Temporary Access Fills:

Special Provisions Notes:

Definitions:

Hydraulic Opening

The cross-sectional area allowing an unimpeded discharge equal to twice the highest monthly flow without producing a rise in the backwater above the Ordinary High Water Mark (OHWM).

Standard Temporary Discharge

Discharge equal to twice the *highest monthly flow* without producing a rise in the backwater above the OHWM. The U.S. Geologic Service publication "Techniques for estimating Selected Streamflow Characteristics of Rural Unregulated Streams in Ohio" provides equations that estimate monthly flow for Ohio Waterways These flows are also available in a web application by USGS StreamStats, (<https://water.usgs.gov/osw/streamstats/ohio.html>). The highest monthly flow is the highest monthly mean discharge occurring in a 12-month period from January to December.

Average Monthly Flow

The average monthly flow represents the estimated "normal" flow.

Temporary Access Fills (TAFs)

Include, but are not limited to, dewatering fills, causeways, cofferdams, access pads, temporary bridges, etc. below the OHWM.

Requirements

21 calendar days prior to the initiation of any in-stream work, provide the Engineer with Working Drawings that include:

- Plan view drawing (50 scale or less) showing the location of all TAFs proposed for use on the project
- Scaled cross section and profile drawing showing the OHWM and the proposed hydraulic opening.

- Identify the minimum diameter size, placement location and thickness of non-erodible Dumped Rock Fill material on the plan and profile.
- Calculations analyzing the hydraulic impacts of the TAF on the waterway. Include in the calculations an analysis of the hydraulic opening sized adequately to pass the Standard Temporary Discharge without producing a rise in backwater above the OHWM. Include, in the analysis, calculated channel velocities adjacent to the TAF, culvert exit velocities, calculated headwater and tailwater elevations, and any additional appropriate calculations to assess potential impacts to the waterway during normal and anticipated high flow (twice the highest monthly flow) events.
- A description of all temporary material to be placed below the OHWM elevation.
- A description of the installation and staging of all temporary fill over the life of the contract.
- Identify the protection methods and/or structural Best Management Practices for minimizing impacts to the waterway.
- Volume of temporary fill below the OHWM elevation.
- A description of the diversion ditches, equipment, conduits or means for maintaining normal flows in the waterway.
- A description of the removal of all temporary fill and restoration of the channel and all areas impacted by the TAFs.
- A schedule outlining the timing of the placement and removal of all temporary fill.
- Have competent individuals prepare and check the Working Drawings and hydraulic calculations. Provide a cover sheet containing the preparer(s) and checker(s): First Name, Last Name and Initials. The preparer(s) and checker(s) shall not be the same individual. Have an Ohio Registered Engineer review, approve, sign, seal and date the Working Drawings and hydraulic calculations according to ORC 4733 and OAC 4733-35. Include the following statement on the Working Drawings:
“These Working Drawings were prepared in compliance with the terms of these Special Provisions and all contract documents.”

Do not begin in-stream work until the Engineer has accepted the Working Drawings and hydraulic calculations.

The design and construction of the Contractor's TAF must minimize impacts to water bodies, stream banks, stream beds, and riparian zones to the maximum extent practicable.

Fording of waterways and other aquatic resources is prohibited.

Construct TAFs in such a manner that will maintain flows, minimize upstream flooding, and avoid overtopping the TAF on a regular basis. ***TAFs shall be designed and constructed so that the hydraulic opening provides capacity for a discharge equal to twice the highest monthly flow without producing a rise in the backwater above the (OHWM).***

If the Contractor proposes a TAF which does not meet all the requirements of these Special Provisions, the Contractor must submit a request in writing for a modified TAF to the Engineer. The request must include all Working Drawings and hydraulic calculations required by these Special Provisions. The Department makes no guarantee to grant the request. The Contractor's proposed TAF request will be coordinated by OES with the USACE and the OEPA, as appropriate. The time frame allowed for the coordination of the contractor's proposed TAF will be a minimum of 60 days.

Installation of any temporary fill without appropriate authorization is strictly prohibited. All direct coordination with the USACE and/or OEPA will be performed through OES.

TAFs Construction and Payment

Begin planning and installing causeways and access fills as early in construction as possible to avoid conflicts with these Special Provisions or other environmental commitments that have been included in the construction plans.

TAFs in Streams and Rivers may include, but are not limited to, causeways, cofferdams, access pads, sheet piling, temporary bridges, etc. The Contractor must make every attempt to minimize disturbance to waterbodies, stream banks, stream beds and riparian zones during the construction, maintenance, and removal of the TAF. Construct the TAFs as narrow as practical. Install in-stream conduits parallel to the stream banks. Make the TAFs in shallow areas rather than deep pools where possible. Minimize clearing, grubbing, and excavation of stream banks, and approach sections. Construct the TAFs as to not cause erosion or allow sediment deposits in the waterway.

Prior to the initiation of any in-stream work, establish a monument upstream of the proposed TAF to visually monitor the water elevation in the waterway where the fill is permitted. Maintain the monument throughout the project. Provide a visual mark on the monument that identifies the elevation 1 foot above the OHWM. Ensure that the monument can be read from the bank of the waterway. Have this elevation set and certified by an Ohio Registered Surveyor. All costs associated with furnishing and maintaining the above referenced monument is incidental to the work.

Should the surface water elevation exceed the elevation 1 foot above OHWM, the Department will compensate the Contractor for repair of any resulting damage to the TAF up to the elevation of 1 foot above the OHWM, except as noted. The Department will recognize this event as an excusable, non-compensable delay in accordance with Section 108.06 B. of the Construction & Materials Specifications.

Follow the requirements in Item 502 for Structures for Maintaining Traffic and in Item 503 for Cofferdams and Excavation Bracing and any modifications to these items as shown in the plans. The Department will not pay for repair and maintenance of TAFs associated with Items 502 and 503 as a result of surface water elevation exceeding 1 foot above the OHWM. Compensation for damages associated with waterway flows will be provided as described in Items 502 and 503.

Construct the TAFs, not including Items 502 and 503, to a water elevation at least 1 foot (0.3 m) above the OHWM. If more than one-third the width of the stream is filled, then use culvert pipes to allow the movement of aquatic life. Ensure that any ponding of water behind the TAF will not damage property, flood roadways, or threaten human health and safety.

The following minimum requirements apply to TAFs where culverts are used.

- A. Furnish culverts on the existing stream bottom.
- B. Avoid a drop in water elevation at the downstream end of the culvert that would result in an adverse impact to the waterway.
- C. Furnish a sufficient number of culverts in addition to stream openings to provide a discharge equal to twice the highest monthly flow without producing a rise in the backwater above the OHWM.
- D. Furnish culverts with a minimum diameter of 18 inches (0.5 m).

All TAFs must be constructed of suitable materials. Causeways and access fills must be encapsulated with clean, non-erodible, nontoxic Dumped Rock Fill, Type A, B, C, or D, meeting the requirements of C&MS 703.19.B. Utilize appropriately sized Dumped Rock Fill determined by the Contractor's engineer for encapsulating the sides of the TAF. Encapsulate all sides of the TAF, adjacent to the waterways, with the non-erodible material. For causeways, contractors may use clean aggregate meeting C&MS 703.01 Size Number 1 and 2 for creating a working surface above the OHWM. Extend the non-erodible encapsulating material to at least the

elevation of the top of the working surface. Extend clean aggregate up the slope from the original stream bank for 50 feet (10 m) to remove erodible material and prevent tracking from equipment onto the TAF.

When the work requiring TAF is complete, all portions of the TAF (including all rock and culverts) will be removed in its entirety. Do not dispose of TAF material in other aquatic resources or where erosion into another aquatic resource is possible. The stream bottom affected by the TAFs will be restored to its pre-construction elevations. The TAFs will not be paid as a separate item but will be included by the Contractor as part of the total project cost.

Unless specific TAF compensation is included in the plans, all environmental protection and control associated with the authorized activities, are incidental to the work within the boundaries of the aquatic resources.

8. Excavation Activities:

Excavated material will be placed at an upland site and disposed of in such a manner that sediment and runoff to streams and other aquatic resources is controlled and minimized. Additionally, no more than incidental fallback into jurisdictional waters of the U.S. is permitted during the excavation process. If any changes to the proposed work are deemed necessary, notify the Engineer who will immediately contact the ODOT-District Environmental Coordinator and ODOT-OES-WPU at 614-466-2159.

9. Demolition Debris:

The intentional discharge of demolition debris from any structure (including but not limited to bridges, culverts, abutments, wing walls, piers) is not authorized for this project. If any demolition debris inadvertently falls into aquatic resources, it must be removed immediately. Notify the Engineer immediately in writing of any inadvertent fill discharged into aquatic resources. The Engineer will immediately contact ODOT-OES-WPU at 614-466-2159 if any unintentional discharge occurs.

10. Construction Completion Certification:

Upon completion of the work, notify the Engineer. The USACE Construction Completion Certification must be completed and signed by the Engineer then provided via US mail or email to:

Waterway Permits Program Manager
ODOT - Office of Environmental Services
1980 West Broad Street, Mail Stop 4170
Columbus, Ohio 43223
Adrienne.Earley@dot.ohio.gov

A copy of the certification will be provided **upon receipt of Nationwide Permit authorization.**

TABLE 3. STREAM DISCHARGE AND FILL QUANTITIES

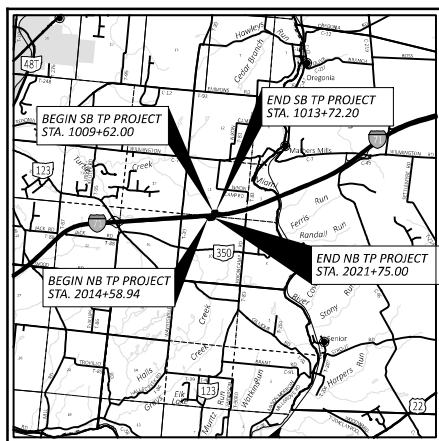
Stream	Station	Description of Impacts	Length (LF)	Width (LF)	Depth (LF)	Permanent Fill Below OHWM									Total Permanent Fill			Total Temporary Fill			Total Impact Length
						Proposed Concrete (Includes Culvert, Piers, Walls, Abutments, etc.)			Proposed RCP			Proposed Earthen, Granular, or Embankment Fill									
						Length (LF)	Area (AC)	Volume (CY)	Length (LF)	Area (AC)	Volume (CY)	Length (LF)	Area (AC)	Volume (CY)	Length (LF)	Area (AC)	Volume (CY)	Length (LF)	Area (AC)	Volume (CY)	Length (LF)
Stream 1	SB TP Access Drive STA 103+40 to 104+25	Culvert installation and grading	1519	4.08	0.33	53	0.005	3	6	0.001	1	115	0.011	6	174	0.017	10	30	0.004	2	174
	SB TP Lot STA 216+90 to 217+90	Temporary construction access				0	0	0	0	0	0	0	0	0	0	0	0	97	0.009	5	97
PROJECT #1 SUM:						53	0.005	3	6	0.001	1	155	0.011	6	174	0.017	10	127	0.013	7	271
PROJECT #2 SUM:						0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

LF = linear feet; AC = acres; CY = cubic yards; RCP = rock channel protection or the like (specify if different, i.e.. concrete block matting); NA = Not Applicable

TABLE 4. WETLAND DISCHARGE AND FILL QUANTITIES

Wetland	Station	Description of Impacts	Acreage (AC)	Depth (LF)	Permanent Fill Within Wetland Boundary				Total Permanent Fill		Total Impact Acreage
					Proposed Concrete (Includes Culvert, Piers, Walls, Abutments, etc.)		Proposed Earthen, Granular, or Embankment Fill				
					Area (AC)	Volume (CY)	Area (AC)	Volume (CY)	Area (AC)	Volume (CY)	Area (AC)
Wetland 12	SB TP Lot STA 204+60 to 205+25	Grading	0.009	1	0	0	0.009	13	0.009	13	0.009
PROJECT #1 SUM:					0	0	0.009	13	0.009	13	0.009
Wetland 5	NB East TP Lot STA 803+90 to 808+00	Grading, tied concrete block mat installation	0.156	1	0.001	1	0.052	85	0.053	86	0.053
Wetland 6	NB East TP Lot STA 803+00 to 806+25	Grading	0.321	1	0	0	0.321	519	0.321	519	0.321
Wetland 8	NB East TP Lot STA 812+40 to 812+70	Grading	0.095	1	0	0	0.004	6	0.004	6	0.004
Wetland 9	NB East TP Lot STA 813+10 to 813+40	Grading	0.028	1	0	0	0.007	11	0.007	11	0.007
Wetland 10	NB East TP Lot STA 810+25 to 810+50	Grading	1.577	1	0	0	0.021	33	0.021	33	0.021
Wetland 11	NB East TP Lot STA 808+40 to 809+25	Grading	0.143	1	0	0	0.047	75	0.047	75	0.047
PROJECT #2 SUM:					0.001	1	0.452	729	0.453	730	0.453

LF = linear feet; AC = acres; CY = cubic yards; RCP = rock channel protection or the like (specify if different, i.e.. concrete block matting); NA = Not Applicab



LOCATION MAP

LATITUDE: 39°24'54" LONGITUDE: -84°07'23"



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

DESIGN DESIGNATION

CURRENT ADT (2027).....	51,500
DESIGN YEAR ADT (2047).....	64,000
DESIGN HOURLY VOLUME (2027).....	7,700
DIRECTIONAL DISTRIBUTION.....	65.7%
TRUCKS (24 HOUR B&C).....	26%
DESIGN SPEED.....	75
LEGAL SPEED.....	70
DESIGN FUNCTIONAL CLASSIFICATION:	
01 - INTERSTATE (RURAL)	
NHS PROJECT.....	YES

DESIGN EXCEPTIONS

NONE

ADA DESIGN WAIVERS

NONE

UNDERGROUND UTILITIES	
Contact Two Working Days Before You Dig	
 OHIO811.org Before You Dig	
OHIO811, 8-1-1, or 1-800-362-2764 (Non members must be called directly)	

PLAN PREPARED BY:



STATE OF OHIO
DEPARTMENT OF TRANSPORTATION

WAR-IR 71 REST AREAS TP

TURTLE CREEK TOWNSHIP

WARREN COUNTY

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STANDARD CONSTRUCTION DRAWINGS										SUPPLEMENTAL SPECIFICATIONS	SPECIAL PROVISIONS
BP-1.1	7/28/00	DM-1.2	1/17/25	MIH-3	7/19/24	HL-20.21	1/16/26	TC-41.20	10/18/13	800-203	7/17/25
BP-2.1	1/21/22	DM-4.1	7/17/20			HL-30.11	1/16/26	TC-41.30	4/21/23	813	7/21/23
BP-2.2	1/16/26	DM-4.2	7/20/12			HL-30.22	1/17/25	TC-41.50	10/18/13	821	4/20/12
BP-2.5	1/16/26	DM-4.3	1/15/16			HL-40.10	1/16/26	TC-42.10	10/18/13	825	7/19/24
BP-3.1	1/19/24	DM-4.4	1/15/16	RM-3.1	7/20/18	HL-60.20	7/18/25	TC-42.20	10/18/13	832	7/18/25
BP-4.1	7/19/13			RM-5.1	7/18/14	HL-40.11	7/21/27	TC-52.10	10/18/13	878	1/16/26
BP-5.1	1/16/26	F-2.1	7/20/18					TC-52.20	1/15/21	902	1/16/26
BP-7.1	1/16/26	F-3.3	7/19/13	WQ-1.1	7/12/23	MT-95.45	7/21/23	TC-61.30	7/19/24	913	4/16/21
BP-8.1	7/19/24	F-3.4	7/19/13	WQ-1.2	1/15/16	MT-95.50	7/21/17	TC-71.10	1/16/26		
CB-1	7/19/24					MT-98.28	1/17/20	TC-74.10	1/16/26		
CB-2, 2A, 2B, 2C	7/19/24	i-2	7/19/24	HW-2.1	7/15/22	MT-98.29	1/17/20				
CB-2, 3, 2-4	7/19/24			HW-2.2	7/20/18	MT-101.60	1/17/25	HL-10.11	1/16/26		
CB-3	1/16/26	MGS-2.1	1/16/26			MT-101.90	7/17/20	HL-60.31	1/16/26		
CB-3A	1/16/26	MGS-4.2	7/18/25	HL-10.12	1/16/26	MT-103.10	7/18/25				
		MGS-4.3	7/18/25	HL-10.13	1/20/23	MT-103.20	1/16/26				
DM-1.1	1/17/25	MGS-5.2	7/15/16	HL-20.11	1/16/26	MT-105.10	1/17/20				

FEDERAL PROJECT NUMBER

NON-FEDERAL

RAILROAD INVOLVEMENT

NONE

PROJECT DESCRIPTION

THIS PROJECT ADDS ADDITIONAL TRUCK PARKING FACILITIES TO TWO REST AREA LOCATIONS ALONG NORTHBOUND AND SOUTHBOUND I.R. 71 IN WARREN COUNTY. THE PROJECT INCLUDES FULL DEPTH PAVEMENT, MINOR WIDENING, DRAINAGE INSTALLATION WITHIN TRUCK PARKING FACILITIES, PAVEMENT MARKING AND SIGNING.

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA:	20.17 ACRES
ESTIMATED CONTRACTOR EARTH DISTURBED AREA:	3.40 ACRES
NOTICE OF INTENT EARTH DISTURBED AREA:	25.00 ACRES

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.

2023 SPECIFICATIONS

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

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL NOT REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY EXCEPT FOR THE REST AREA RAMPS AS DESCRIBED ON SHEET P.19 AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.


Douglas A. Gruver, P.E.
District 08 Deputy Director

Pamela Boratyn
Pamela Boratyn
Director, Department of Transportation

ENGINEER'S SEAL	ENGINEER'S SEAL
<p>ENTIRE PLAN EXCEPT LIGHTING</p> 	<p>LIGHTING</p> 

TITLE SHEET

DESIGN AGENCY



DESIGNER	DI
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REVIEWER
CAG 07/01/26

PROJECT ID
122893

SHEET	TOTAL
P.1	2

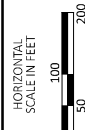
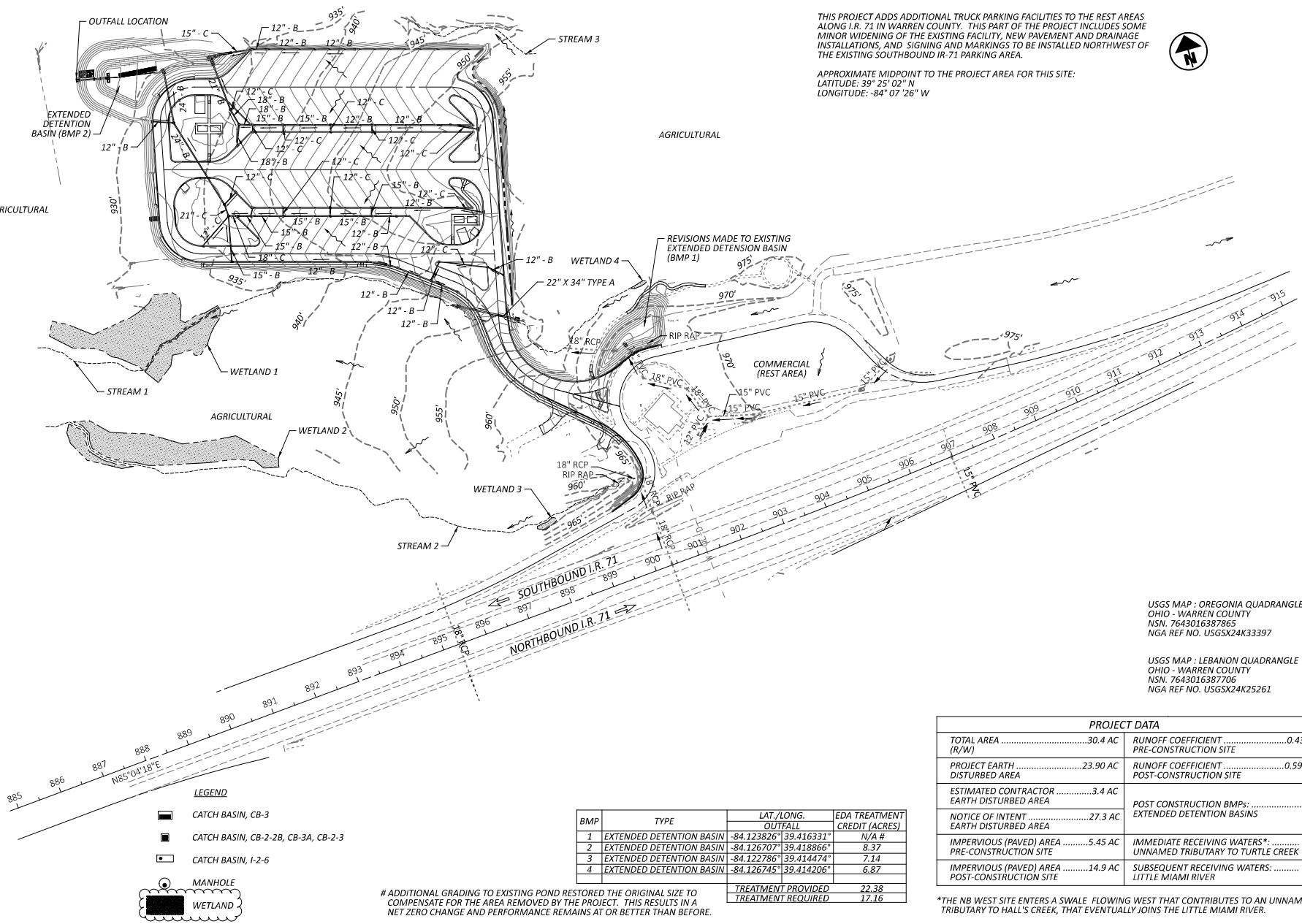


NOTE:
1. SEE SHEET P.3 FOR ALIGNMENT CURVE DATA AND PROJECT CONTROL INFORMATION.

PROJECT DESCRIPTION

THIS PROJECT ADDS ADDITIONAL TRUCK PARKING FACILITIES TO THE REST AREAS ALONG I.R. 71 IN WARREN COUNTY. THIS PART OF THE PROJECT INCLUDES SOME MINOR WIDENING OF THE EXISTING FACILITY, NEW PAVEMENT AND DRAINAGE INSTALLATIONS, AND SIGNING AND MARKINGS TO BE INSTALLED NORTHWEST OF THE EXISTING SOUTHBOUND I.R. 71 PARKING AREA.

APPROXIMATE MIDPOINT TO THE PROJECT AREA FOR THIS SITE:
 LATITUDE: 39° 25' 02" N
 LONGITUDE: -84° 07' 26" W

PROJECT SITE PLAN
SOUTHBOUND SITE

USGS MAP : OREGONIA QUADRANGLE
 OHIO - WARREN COUNTY
 NSN: 7643016387865
 NGA REF NO. USGSX24K33397

USGS MAP : LEBANON QUADRANGLE
 OHIO - WARREN COUNTY
 NSN: 7643016387706
 NGA REF NO. USGSX24K25261

PROJECT DATA

TOTAL AREA (R/W)	30.4 AC	RUNOFF COEFFICIENT PRE-CONSTRUCTION SITE	0.43
PROJECT EARTH DISTURBED AREA	23.90 AC	RUNOFF COEFFICIENT POST-CONSTRUCTION SITE	0.59
ESTIMATED CONTRACTOR EARTH DISTURBED AREA	3.4 AC	POST CONSTRUCTION BMPs:	EXTENDED DETENTION BASINS
NOTICE OF INTENT EARTH DISTURBED AREA	27.3 AC	IMMEDIATE RECEIVING WATERS*:	UNNAMED TRIBUTARY TO TURTLE CREEK
IMPERVIOUS (PAVED) AREA PRE-CONSTRUCTION SITE	5.45 AC	SUBSEQUENT RECEIVING WATERS:	LITTLE MIAMI RIVER
IMPERVIOUS (PAVED) AREA POST-CONSTRUCTION SITE	14.9 AC		

*THE NB WEST SITE ENTERS A SWALE FLOWING WEST THAT CONTRIBUTES TO AN UNNAMED TRIBUTARY TO HALL'S CREEK, THAT EVENTUALLY JOINS THE LITTLE MIAMI RIVER.

BMP	TYPE	LAT./LONG.	EDA TREATMENT CREDIT (ACRES)
1	EXTENDED DETENTION BASIN	-84.123826° 39.416331°	N/A #
2	EXTENDED DETENTION BASIN	-84.126707° 39.418866°	8.37
3	EXTENDED DETENTION BASIN	-84.122786° 39.414474°	7.14
4	EXTENDED DETENTION BASIN	-84.126745° 39.414206°	6.87
		TREATMENT PROVIDED	22.38
		TREATMENT REQUIRED	17.16

ADDITIONAL GRADING TO EXISTING POND RESTORED THE ORIGINAL SIZE TO COMPENSATE FOR THE AREA REMOVED BY THE PROJECT. THIS RESULTS IN A NET ZERO CHANGE AND PERFORMANCE REMAINS AT OR BETTER THAN BEFORE.

DESIGN AGENCY

DESIGNER

MS

REVIEWER

CAG 07/01/26

PROJECT NO.

122893

SHEET

P.29

TOTAL

205

 CATCH BASIN, CB-3

 CATCH BASIN, CB-2-2B, CB-3A, CB-2-3

 CATCH BASIN, I-2-6

 MANHOLE

[illegible]

PROJECT SITE PLAN NORTHBOUND SITE (WEST)



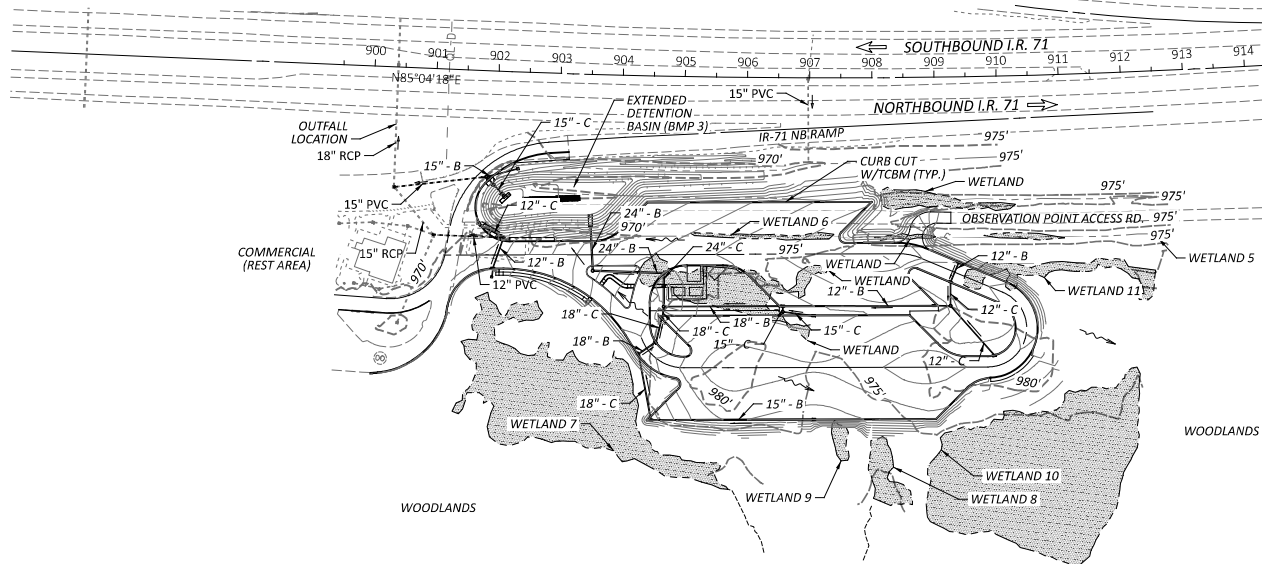
WOOLPERT

P.30 | 205

 CATCH BASIN, CB-3

 CATCH BASIN, CB-2-2B, CB-3A, CB-2-3

 CATCH BASIN, I-2-6



HORIZONTAL
SCALE IN FEET



A horizontal scale bar with markings at 0, 50, 100, and 200 feet. The bar is divided into segments: a black segment from 0 to 50, a white segment from 50 to 100, a black segment from 100 to 150, a white segment from 150 to 200, and a black segment from 200 to 250.

PROJECT SITE PLAN
NORTHBOUND SITE (EAST)

DESIGN AGENCY



DESIGNER

REVIEWER

PROJECT ID

122893

SHEET	TOTAL
-------	-------

P.31 | 2

LEGEND	
	CONCRETE MEDIANS
	FULL DEPTH PAVEMENT
	TIED CONCRETE BLOCK MAT WITH TYPE 1 UNDERLAYMENT
	WORK TO BE COMPLETED BY OTHERS
	ROCK CHANNEL PROTECTION
	ITEM 203 - GRANULAR MATERIAL, TYPE E, AS PER PLAN
	ITEM 670 - SLOPE EROSION PROTECTION
	WETLAND



DESIGN AGENCY	
DESIGNER	
NAB	
REVIEWER	
CAG 07/01/26	
PROJECT ID	
122893	
SHEET	TOTAL
P.32	205

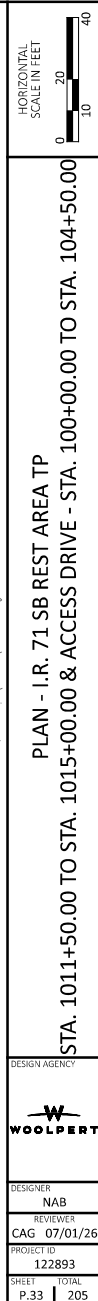
 STA. 100+00.00,  SB TP ACCESS DRIVE=
STA. 1012+72.84,  SB THRU-ACCESS

 UTILITY NOT TO BE DISTURBED; OMIT
CEMENT STABILIZATION OVER UTILITY

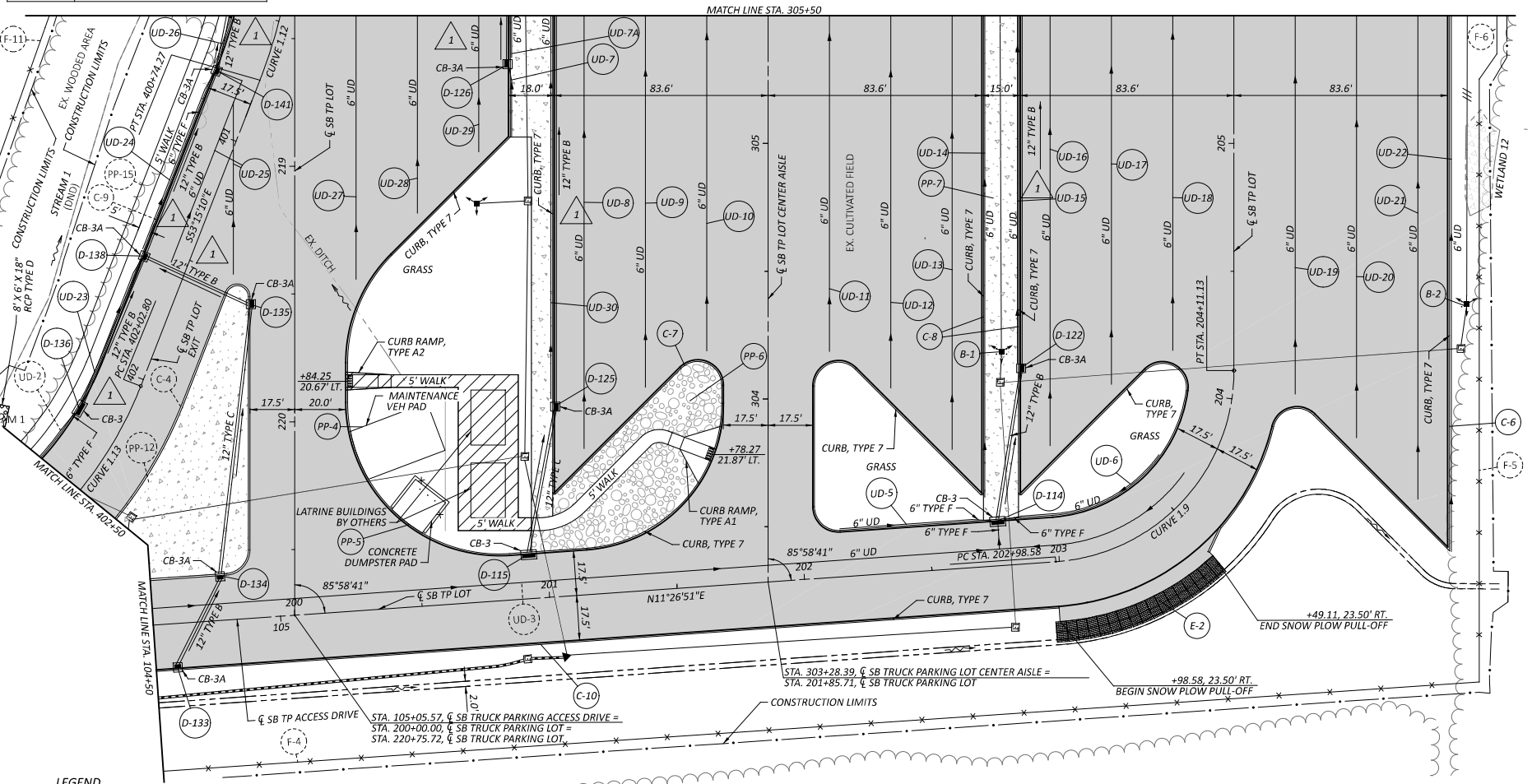
LEGEND

	CONCRETE MEDIANS
	FULL DEPTH PAVEMENT
	TIED CONCRETE BLOCK MAT WITH TYPE 1 UNDERLAYMENT
	WORK TO BE COMPLETED BY OTHERS
	ROCK CHANNEL PROTECTION
	ITEM 203 - GRANULAR MATERIAL, TYPE E, AS PER PLAN
	ITEM 670 - SLOPE EROSION PROTECTION
	WETLAND

NOTE:
1. DO NOT DISTURB EXISTING FEATURES WITHIN CONSTRUCTION LIMITS
UNLESS OTHERWISE STATED IN THE PLANS.
2. SEE SCHEMATIC FOR CURVE DATA.
3. SEE LIGHTING PLANS FOR LIGHTING DETAILS AND QUANTITIES.
4. SEE DRIVE DETAILS FOR CURVE DATA AND STATIONS.



CROSS REFERENCES	
SHEET NO.	DESCRIPTION
P.2 - P.3	SCHEMATIC PLAN
P.23 - P.28	ESTIMATED QUANTITIES
P.151 - P.159	STORM SEWER PROFILES
P.38 - P.41	I.R. 71 SB REST AREA TP PROFILES
P.160	CULVERT DETAILS

**LEGEND**

- CONCRETE MEDIANS
- FULL DEPTH PAVEMENT
- TIED CONCRETE BLOCK MAT WITH TYPE 1 UNDERLAYMENT
- WORK TO BE COMPLETED BY OTHERS
- ROCK CHANNEL PROTECTION
- ITEM 203 - GRANULAR MATERIAL, TYPE E, AS PER PLAN
- ITEM 670 - SLOPE EROSION PROTECTION
- WETLAND

NOTE:
1. DO NOT DISTURB EXISTING FEATURES WITHIN CONSTRUCTION LIMITS UNLESS OTHERWISE STATED IN THE PLANS.

2. SEE SCHEMATIC FOR CURVE DATA.

3. SEE LIGHTING PLANS FOR LIGHTING DETAILS AND QUANTITIES.

4. SEE DRIVE DETAILS FOR CURVE DATA AND STATIONS.



UTILITY NOT TO BE DISTURBED; OMIT CEMENT STABILIZATION OVER UTILITY



PLAN - I.R. 71 SB REST AREA TP
PARKING LOT - STA. 104+50.00 TO STA. 305+50.00

DESIGN AGENCY

DESIGNER
NABREVIEWER
CAG 07/01/26PROJECT NO.
122893SHEET
P.34TOTAL
205

CROSS REFERENCES	
SHEET NO.	DESCRIPTION
P.2 - P.3	SCHEMATIC PLAN
P.23 - P.28	ESTIMATED QUANTITIES
P.151 - P.159	STORM SEWER PROFILES
P.38 - P.41	I.R. 71 SB REST AREA TP PROFILES

MATCH LINE STA. 308+50

MATCH LINE STA. 305+50

LEGEND	
	CONCRETE MEDIANS
	FULL DEPTH PAVEMENT
	TIED CONCRETE BLOCK MAT WITH TYPE 1 UNDERLAYMENT
	WORK TO BE COMPLETED BY OTHERS
	ROCK CHANNEL PROTECTION
	ITEM 203 - GRANULAR MATERIAL, TYPE E, AS PER PLAN
	ITEM 670 - SLOPE EROSION PROTECTION
	WETLAND

NOTE:
1. DO NOT DISTURB EXISTING FEATURES WITHIN CONSTRUCTION LIMITS UNLESS OTHERWISE STATED IN THE PLANS.

2. SEE SCHEMATIC FOR CURVE DATA.

3. SEE LIGHTING PLANS FOR LIGHTING DETAILS AND QUANTITIES.

4. SEE DRIVE DETAILS FOR CURVE DATA AND STATIONS.

1 UTILITY NOT TO BE DISTURBED; OMIT CEMENT STABILIZATION OVER UTILITY



PLAN - I.R. 71 SB REST AREA TP
PARKING LOT - STA. 305+50.00 TO STA. 308+50.00

DESIGN AGENCY

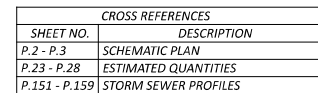
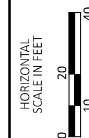
DESIGNER
NABREVIEWER
CAG 07/01/26PROJECT NO.
122893SHEET
P.35 TOTAL
205

 UTILITY NOT TO BE DISTURBED; OMIT CEMENT STABILIZATION OVER UTILITY

NOTE:
1. DO NOT DISTURB EXISTING FEATURES WITHIN CONSTRUCTION LIMITS UNLESS OTHERWISE STATED IN THE PLANS.
2. SEE SCHEMATIC FOR CURVE DATA.
3. SEE LIGHTING PLANS FOR LIGHTING DETAILS AND QUANTITIES.
4. SEE DRIVE DETAILS FOR CURVE DATA AND STATIONS.



DESIGN AGENCY	
 WOOLPERT	
DESIGNER	
NAB	
REVIEWER	
CAG 07/01/26	
PROJECT ID	
122893	
SHEET	TOTAL
P.36	205





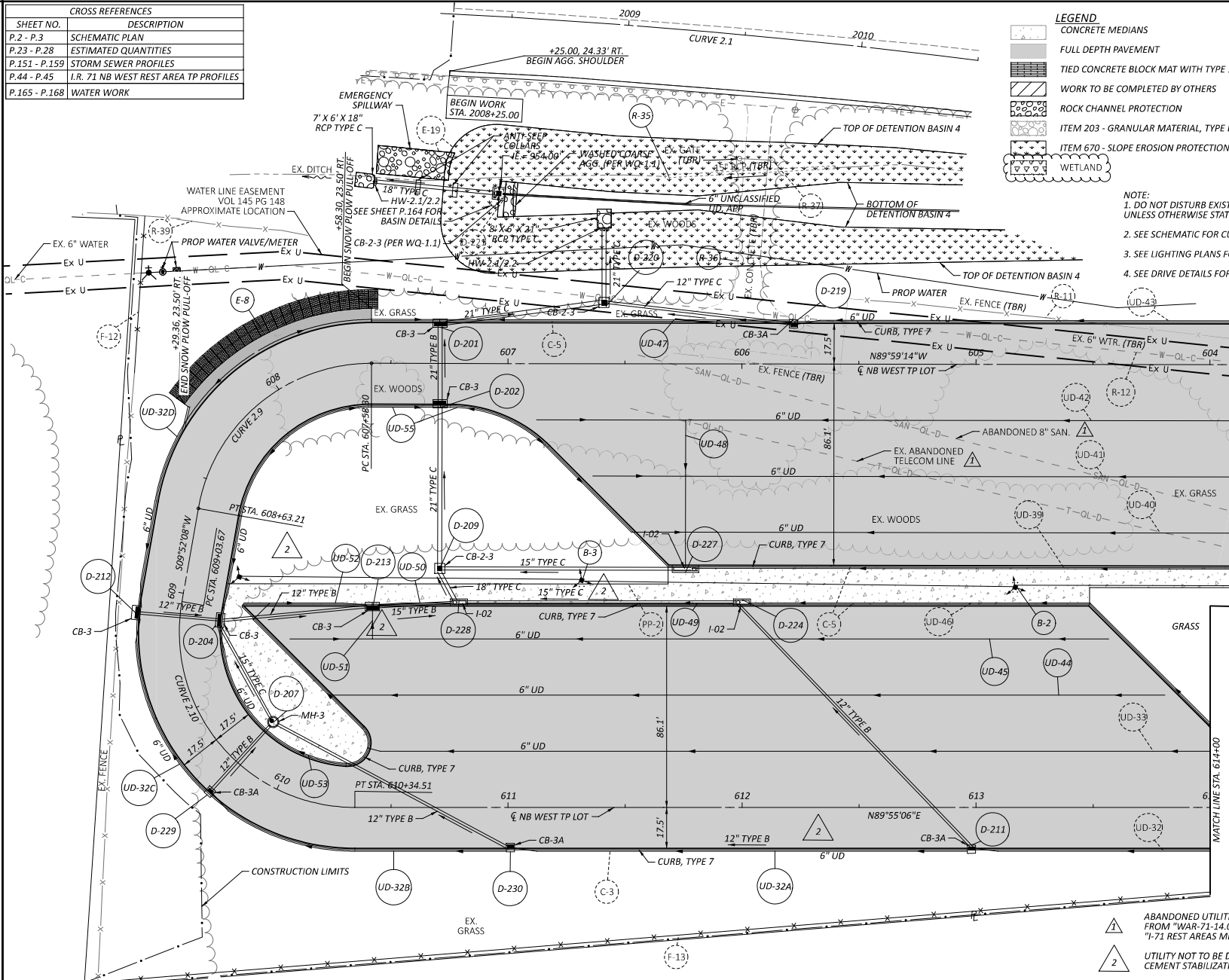
HORIZONTAL
SCALE IN FEET



A horizontal scale bar with markings at 0, 10, 20, and 40 feet. The bar is divided into segments: a solid black segment from 0 to 10, a white segment from 10 to 20, a solid black segment from 20 to 30, a white segment from 30 to 40, and a solid black segment from 40 to 50. The numbers 10, 20, and 40 are placed below the bar.

PLAN - I.R. 71 NB REST AREA TP
STA. 2011+79.00 TO STA. 2017+00.00 & WEST PARKING LOT

CROSS REFERENCES	
SHEET NO.	DESCRIPTION
P.2 - P.3	SCHEMATIC PLAN
P.23 - P.28	ESTIMATED QUANTITIES
P.151 - P.159	STORM SEWER PROFILES
P.44 - P.45	I.R. 71 NB WEST REST AREA TP PROFILES
P.165 - P.168	WATER WORK



LEGEND

- | | |
|---|---|
|  | CONCRETE MEDIANS |
|  | FULL DEPTH PAVEMENT |
|  | TIED CONCRETE BLOCK MAT WITH TYPE 1 UNDERLAYMENT |
|  | WORK TO BE COMPLETED BY OTHERS |
|  | ROCK CHANNEL PROTECTION |
|  | ITEM 203 - GRANULAR MATERIAL, TYPE E, AS PER PLAN |
|  | ITEM 670 - SLOPE EROSION PROTECTION |
|  | WETLAND |

NOTE:

- NOTE:
1. DO NOT DISTURB EXISTING FEATURES WITHIN CONSTRUCTION LIMITS UNLESS OTHERWISE STATED IN THE PLANS.
 2. SEE SCHEMATIC FOR CURVE DATA.
 3. SEE LIGHTING PLANS FOR LIGHTING DETAILS AND QUANTITIES.
 4. SEE DRIVE DETAILS FOR CURVE DATA AND STATIONS.



HORIZONTAL
SCALE IN FEET

A horizontal scale bar with markings at 0, 10, 20, and 40 feet. The bar is divided into four equal segments, each representing 10 feet.

PLAN - I.R. 71 NB REST AREA TP
WEST PARKING LOT - STA. 603+90 TO STA. 614+00

DESIGN AGENCY

DESIGNER
NABREVIEWER
CAG 07/01/2

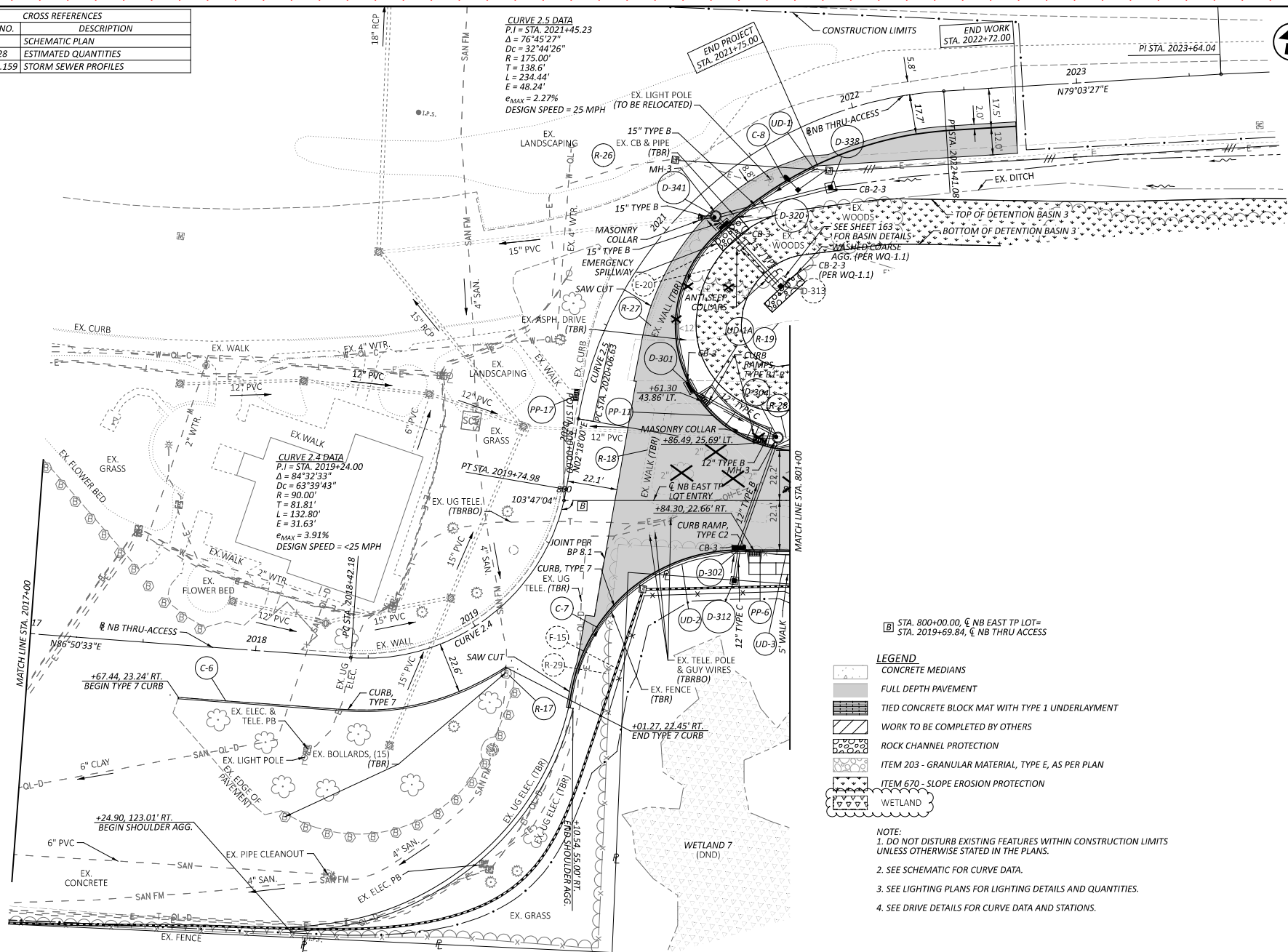
PROJECT ID
122893

SHEET	TOTAL
P.43	205

ABANDONED UTILITIES APPROXIMATE LOCATIONS OBTAINED FROM "WAR-71-14.04/14.05 SAFETY REST AREA" (2000) AND "I-71 REST AREAS MILE MARKER 34 NORTH BOUND" (2018) PLANS

UTILITY NOT TO BE DISTURBED; OMIT
CEMENT STABILIZATION OVER UTILITY

CROSS REFERENCES	
SHEET NO.	DESCRIPTION
P.2 - P.3	SCHEMATIC PLAN
P.23 - P.28	ESTIMATED QUANTITIES
P.151 - P.159	STORM SEWER PROFILES



HORIZONTAL
SCALE IN FEET



A horizontal scale bar with alternating black and white segments. It is marked with 0, 10, 20, and 40 feet.

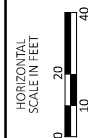
PLAN - I.R. 71 NB REST AREA TP
STA. 2017+00.00 TO STA. 2022+25.00 & EAST PARKING LOT



DESIGN AGENCY
WOOLPER

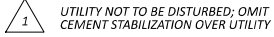
DESIGNER	
NAB	
REVIEWER	
CAG 07/01/2	
PROJECT ID	
122893	
SHEET	TOTAL
P.46	205

<u>LEGEND</u>	
	CONCRETE MEDIANS
	FULL DEPTH PAVEMENT
	TIED CONCRETE BLOCK MAT WITH TYPE 1 UNDERLAYMENT
	WORK TO BE COMPLETED BY OTHERS
	ROCK CHANNEL PROTECTION
	ITEM 203 - GRANULAR MATERIAL, TYPE E, AS PER PLAN
	ITEM 670 - SLOPE EROSION PROTECTION
	WETLAND



DESIGN AGENCY	
	
DESIGNER	
NAB	
REVIEWER	
CAG 07/01/26	
PROJECT ID	
122893	
SHEET	TOTAL
P.47	205

CROSS REFERENCES	
SHEET NO.	DESCRIPTION
P.2 - P.3	SCHEMATIC PLAN
P.23 - P.28	ESTIMATED QUANTITIES
P.151 - P.159	STORM SEWER PROFILES
P.50 - P.51	I.R. 71 NB EAST REST AREA TP PROFILES



LEGEND

- LEGEND**
- | | |
|---|---|
|  | CONCRETE MEDIANS |
|  | FULL DEPTH PAVEMENT |
|  | TIED CONCRETE BLOCK MAT WITH TYPE 1 UNDERLAYMENT |
|  | WORK TO BE COMPLETED BY OTHERS |
|  | ROCK CHANNEL PROTECTION |
|  | ITEM 203 - GRANULAR MATERIAL, TYPE E, AS PER PLAN |
|  | ITEM 670 - SLOPE EROSION PROTECTION |
|  | WETLAND |

NOTE:

1. DO NOT DISTURB EXISTING FEATURES WITHIN CONSTRUCTION LIMITS UNLESS OTHERWISE STATED IN THE PLANS.
2. SEE SCHEMATIC FOR CURVE DATA.
3. SEE LIGHTING PLANS FOR LIGHTING DETAILS AND QUANTITIES.
4. SEE DRIVE DETAILS FOR CURVE DATA AND STATIONS.



HORIZONTAL
SCALE IN FEET

A horizontal scale bar with markings at 0, 10, 20, and 40 feet. The bar is divided into segments: a black segment from 0 to 10, a white segment from 10 to 20, a black segment from 20 to 30, and a white segment from 30 to 40.

PLAN - I,R: 71 NB REST AREA TP
EAST PARKING LOT - STA. 804+15 TO STA. 807+15 & STA. 812+35 TO STA. 815+40

DESIGN AGENCY



DESIGNER

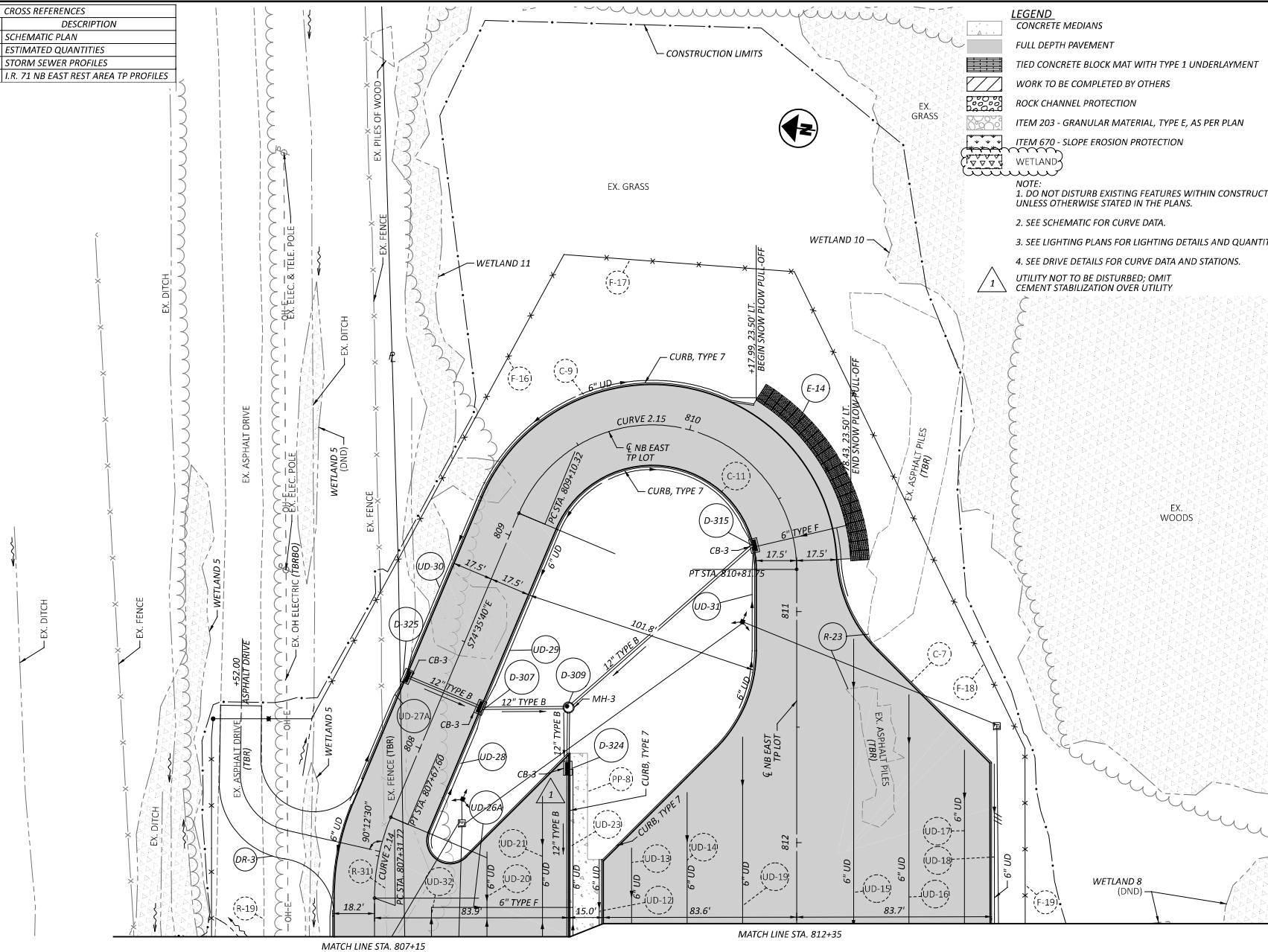
REVIEWER

PROJECT ID

SHEET	TOTAL
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P.48	205
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CROSS REFERENCES	
SHEET NO.	DESCRIPTION
P.2 - P.3	SCHEMATIC PLAN
P.23 - P.28	ESTIMATED QUANTITIES
P.151 - P.159	STORM SEWER PROFILES
P.50 - P.51	I.R. 71 NB EAST REST AREA TP PROFILES



LEGEND

- CONCRETE MEDIANS
- FULL DEPTH PAVEMENT
- TIED CONCRETE BLOCK MAT WITH TYPE 1 UNDERLAYMENT
- WORK TO BE COMPLETED BY OTHERS
- ROCK CHANNEL PROTECTION
- ITEM 203 - GRANULAR MATERIAL, TYPE E, AS PER PLAN
- ITEM 670 - SLOPE EROSION PROTECTION
- WETLAND

NOTE:

1. DO NOT DISTURB EXISTING FEATURES WITHIN CONSTRUCTION LIMITS UNLESS OTHERWISE STATED IN THE PLANS.
2. SEE SCHEMATIC FOR CURVE DATA.
3. SEE LIGHTING PLANS FOR LIGHTING DETAILS AND QUANTITIES.
4. SEE DRIVE DETAILS FOR CURVE DATA AND STATIONS.

UTILITY NOT TO BE DISTURBED; OMIT CEMENT STABILIZATION OVER UTILITY

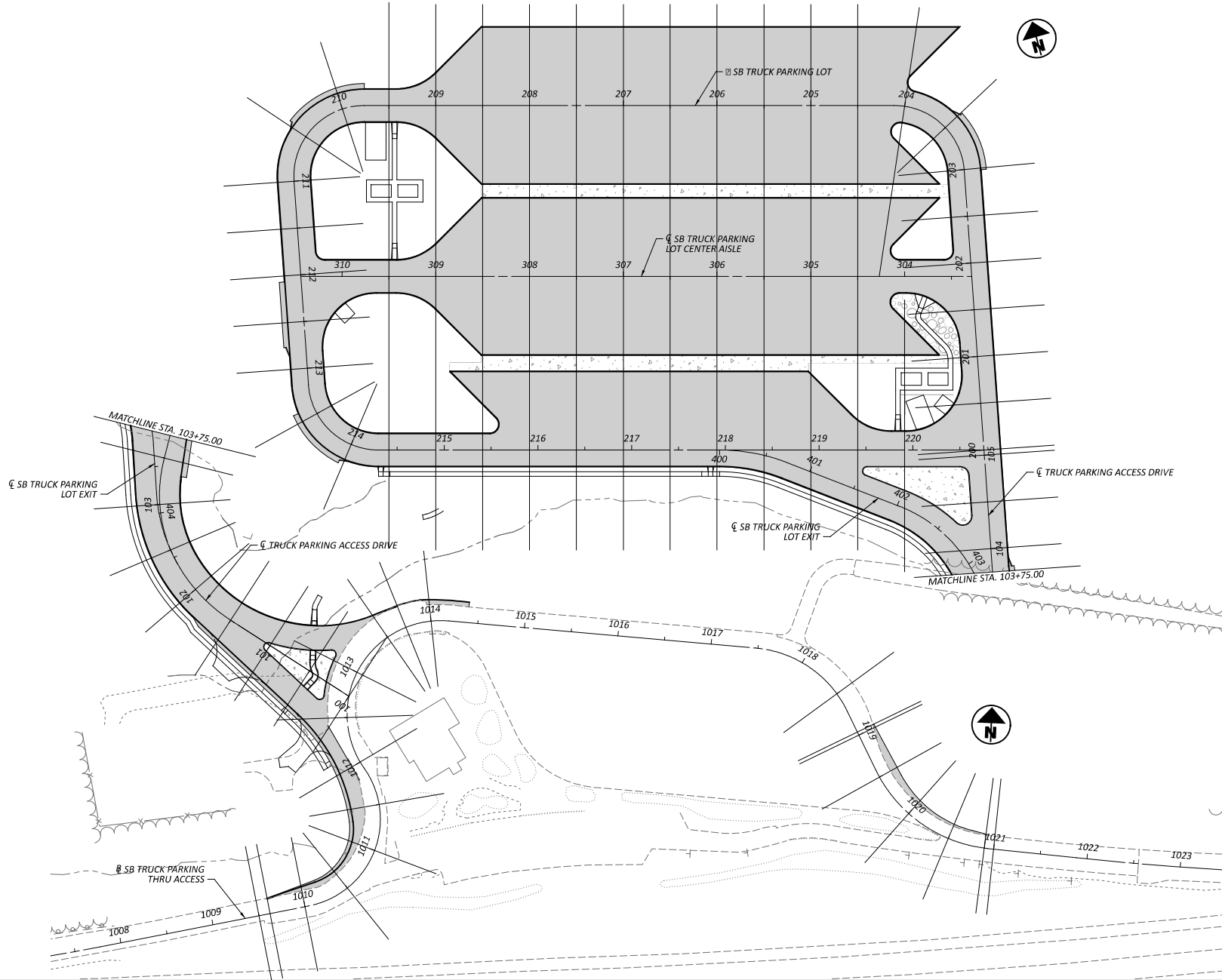


PLAN - I.R. 71 NB REST AREA TP
EAST PARKING LOT - STA. 807+15 TO STA. 812+35

DESIGN AGENCY



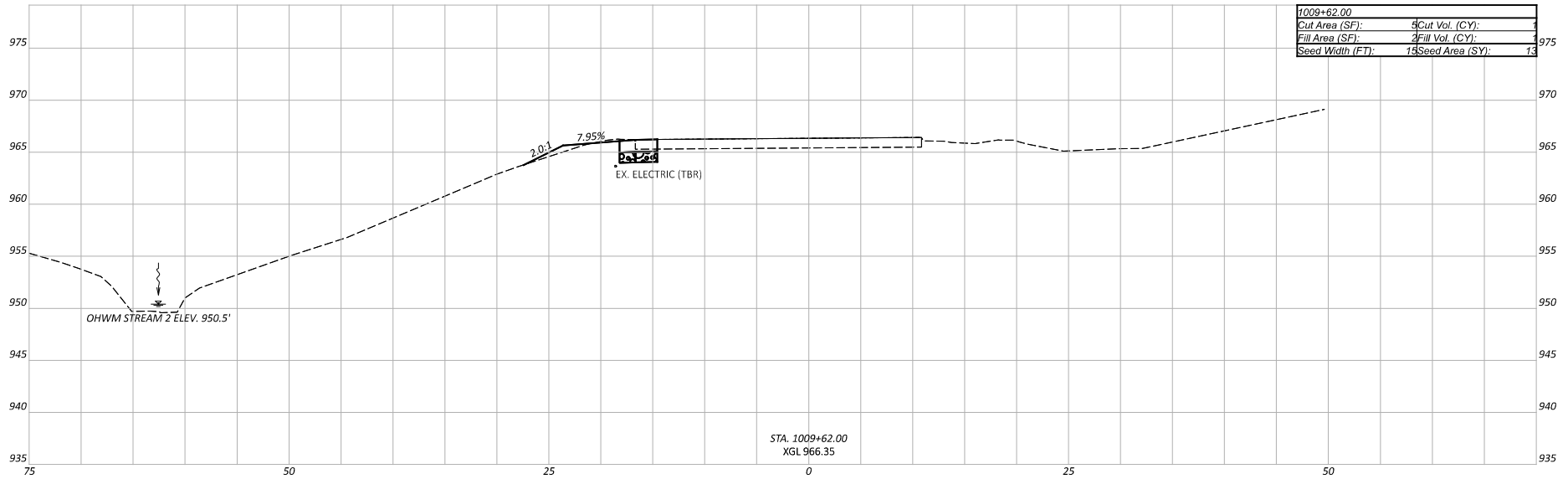
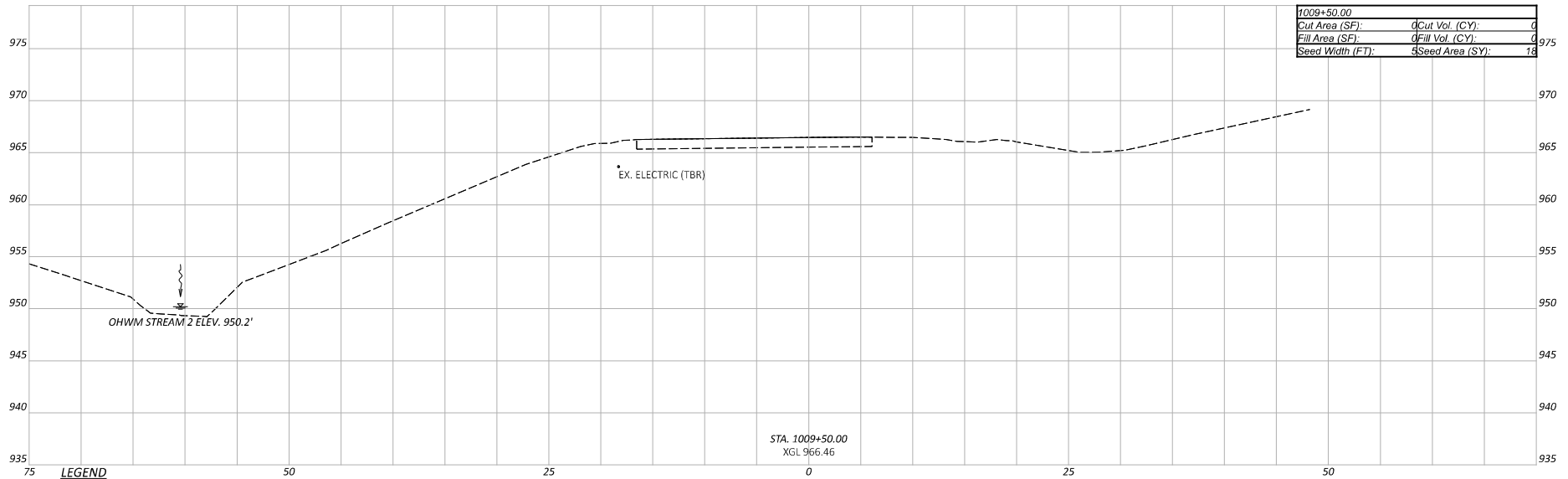
DESIGNER	
NAB	
REVIEWER	
AG 07/01/26	
PROJECT ID	
122893	
SHEET	TOTAL
P.49	205



CROSS SECTION LAYOUT
I.R. 71 SB REST AREA TP

DESIGN AGENCY
WOOLPERT

DESIGNER
JDK
REVIEWER
CAG 07/01/26
PROJECT NO
122893
SHEET TOTAL
P.52 205



LEGEND



12" GRANULAR MATERIAL, TYPE C



TOPSOIL STRIPPING

CROSS SECTIONS - I.R. 71 SB REST AREA TP (THRU-ACCESS)
STA. 1009+50.00 TO STA. 1009+62.00

DESIGN AGENCY



DESIGNER

JDK

REVIEWER

CAG 07/01/26

PROJECT ID

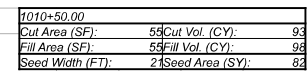
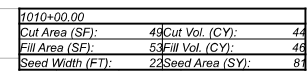
122893

SHEET

P.53

TOTAL

205



12" GRANULAR MATERIAL, TYPE C



TOPSOIL STRIPPING

CROSS SECTIONS - I.R. 71 SB REST AREA TP (THRU-ACCESS)
STA. 1010+00.00 TO STA. 1010+50.00

DESIGN AGENCY



DESIGNER

JC

REVIEWER

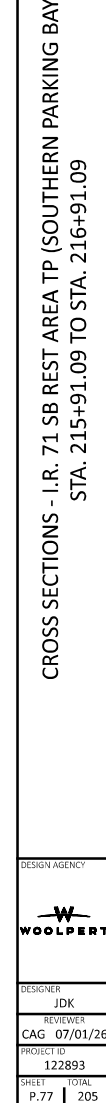
CAG 07/01

PROJECT ID

122893

SHEET	TOTAL
1	1

P.54	2
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DESIGN AGENCY

WOOLPERT
 DESIGNER **JDK**
 REVIEWER
CAG 07/01/26
 PROJECT ID
122893
 SHEET TOTAL
P.78 | 205

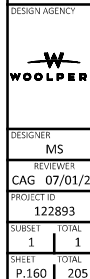




DRAINAGE AREA = 12 ACRES		
Q (10%) = 18 CFS	V (10%) = 12 FT/S	HW (10%) = 951.09 FT
Q (1%) = 24 CFS	V (1%) = 13 FT/S	HW (1%) = 951.57 FT
ORDINARY HIGH WATER MARK: 951.31 FT		
DESIGN SERVICE LIFE: 75 YEARS		
ABRASION LEVEL: 3		
pH: 7.3		

ITEM	QUANTITY	UNIT	DESCRIPTION
601	3	CY	ROCK CHANNEL PROTECTION, TYPE C W/FILTER
601	9	SY	RIPRAP USING 6" REINFORCED CONCRETE SLAB
601	10	SY	TIED CONC. ROCK MAT W/ TYPE 1 UNDERLAYMENT
602	2.2	CY	CONCRETE MASONRY
611	124	FT	22" X 34" CONDUIT, TYPE A, 706.04

TYPE:	22 " X 34 " REINFORCED CONCRETE PIPE
SKEW:	16.6° L.F.
ALIGNMENT:	TANGENT
CEN:	2001790



DRAINAGE DETAILS - CULVERT DETAILS
STA. 103+70.17