

FRA - SR 104-05.63  
 210538 PID - 97727  
 Dist 6 10/14/2021

STATE OF OHIO  
 DEPARTMENT OF TRANSPORTATION

**FRA-104-5.63**

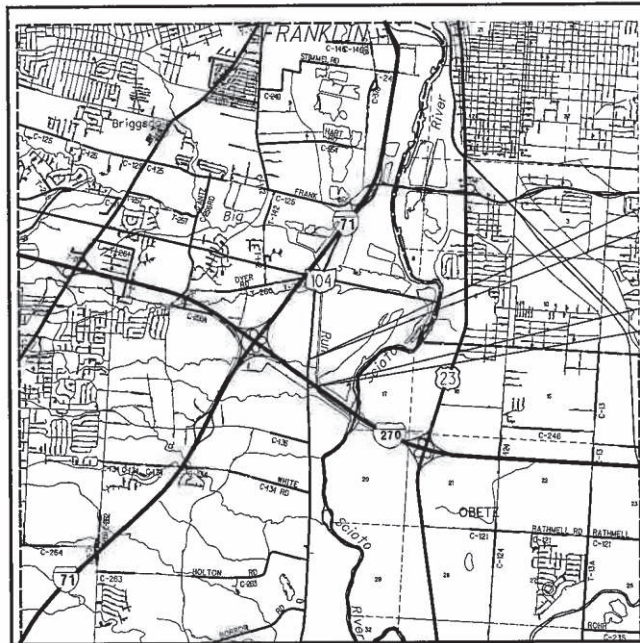
JACKSON TOWNSHIP  
 FRANKLIN COUNTY

PROJECT DESCRIPTION

IMPROVEMENT OF 0.30 MILES OF S.R. 104 OVER I-270 INCLUDING DECK REPLACEMENT, BEARING REPLACEMENT, APPROACH SLAB REPLACEMENT, SUBSTRUCTURE REPAIRS, DITCH CLEAN OUT, AND GUARDRAIL REPLACEMENT.

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA: 2.81 (MAINTENANCE PROJECT)  
 ESTIMATED CONTRACTOR EARTH DISTURBED AREA: N/A (MAINTENANCE PROJECT)  
 NOTICE OF INTENT EARTH DISTURBED AREA: N/A (MAINTENANCE PROJECT)



LOCATION MAP

LATITUDE: 39°53'09" N LONGITUDE: 83°01'40" W

SCALE IN MILES



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

DESIGN DESIGNATION

CURRENT ADT (2020)	13,000
DESIGN YEAR ADT (2040)	17,000
DESIGN HOURLY VOLUME (2040)	2,200
DIRECTIONAL DISTRIBUTION	61%
TRUCKS (24 HOUR B&C)	17%
DESIGN SPEED	50 MPH
LEGAL SPEED	45 MPH
DESIGN FUNCTIONAL CLASSIFICATION:	
URBAN MINOR ARTERIAL	
NHS PROJECT	NO

DESIGN EXCEPTIONS

NONE REQUIRED

INDEX OF SHEETS:

TITLE SHEET	1
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STRUCTURE OVER 20' SPAN	33-60

2019 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 I-270 AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL REQUIRE THE CLOSING TO TRAFFIC OF SR 104 AND THAT DETOURS WILL BE PROVIDED AS INDICATED ON SHEETS 10/60 - 11/60.

BSM	10-07-21	ADDED SS878
REV. BY	DATE	DESCRIPTION
DATE COMPLETED 07-02-2021		

UNDERGROUND UTILITIES

Contact Two Working Days Before You Dig



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

PLAN PREPARED BY:

fishbeck

FISHBECK  
 ONE EAST CAMPUS  
 VIEW BLVD.  
 SUITE 310  
 COLUMBUS, OH 43235

ENGINEERS SEAL:

SIGNED: *J.D.*  
 DATE: 07-02-2021

STANDARD CONSTRUCTION DRAWINGS						SUPPLEMENTAL SPECIFICATIONS		SPECIAL PROVISIONS	
BP-3.1	1/17/20	MGS-1.1	1/19/18	TC-41.20	10/18/13	800	7/16/21		
BP-5.1	1/18/19	MGS-2.1	1/19/18	TC-42.20	10/18/13	832	10/19/18		
		MGS-3.1	1/19/18	TC-52.10	10/18/13	846	4/17/15		
DM-1.1	7/17/20	MGS-4.2	7/19/13	TC-52.20	1/15/21	869	10/17/14		
DM-1.2	1/18/13			TC-61.30	7/19/19				
DM-3.1	1/18/13	MT-95.30	7/19/19			878	4/16/21		
DM-4.1	7/17/20	MT-95.31	7/19/19	AS-1-15	7/17/15			10-7-21	
DM-4.3	1/15/16	MT-95.32	4/19/19	AS-2-15	1/18/19				
DM-4.4	1/15/16	MT-95.45	1/17/20	BR-1-13	1/17/14				
		MT-101.60	1/17/20	SICD-1-96	7/18/14				
F-2.1	7/20/18	MT-101.70	1/17/20	SICD-2-14	1/15/21				
F-3.1	7/19/13	MT-101.75	1/17/20	VPF-1-90	7/20/18				
		MT-101.90	7/17/20						
		MT-105.10	1/17/20						
		RM-4.2	4/17/20						

PLAN CERTIFIED AS TO COMPLETENESS AND QUALITY

*J.D.* 07-02-2021  
 SIGNATURE DATE

FISHBECK PROJECT MANAGER  
 FIRM TITLE

APPROVED *Scott Newberry*  
 DATE 7/16/2021 DISTRICT DEPUTY DIRECTOR

APPROVED *Jade Marchbanks*  
 DATE 8/25/21 DIRECTOR, DEPARTMENT OF TRANSPORTATION

FEDERAL PROJECT NO.  
**E150342**

PID NO.  
**97727**

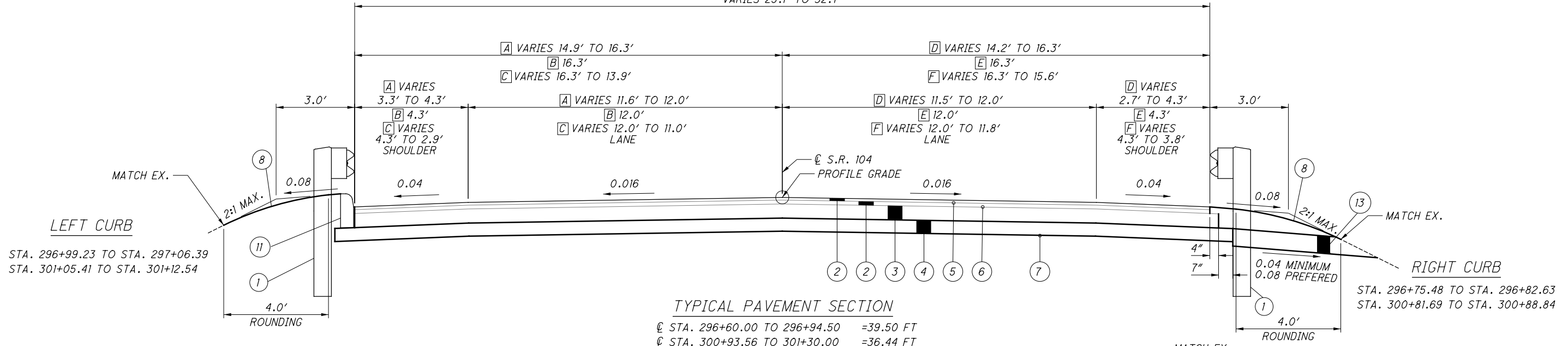
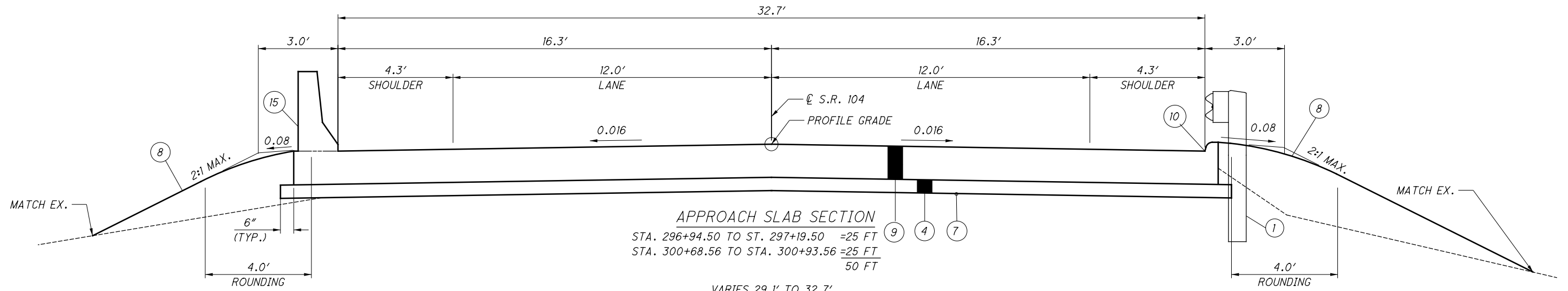
CONSTRUCTION PROJECT NO.

RAILROAD INVOLVEMENT  
**NONE**

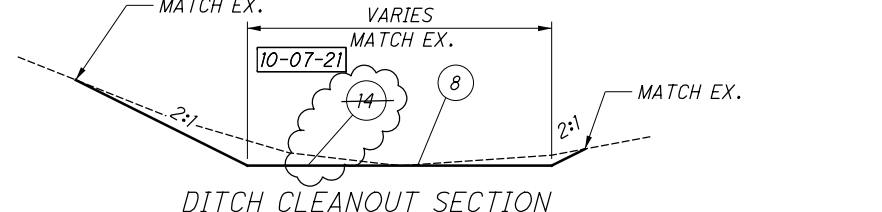
**FRA-104-5.63**

1  
 60

Contract Proposal available @  
 www.contracts.dot.state.oh.us



[A] STA. 296+60.00 TO STA. 296+99.23	[D] STA. 296+60.00 TO STA. 296+75.48
[B] STA. 296+99.23 TO STA. 297+06.39	[E] STA. 296+75.48 TO STA. 296+82.63
[C] STA. 301+05.41 TO STA. 301+12.54	[F] STA. 300+81.69 TO STA. 300+88.84
[C] STA. 301+12.54 TO STA. 301+30.00	[F] STA. 300+88.84 TO STA. 301+30.00



**LEGEND**

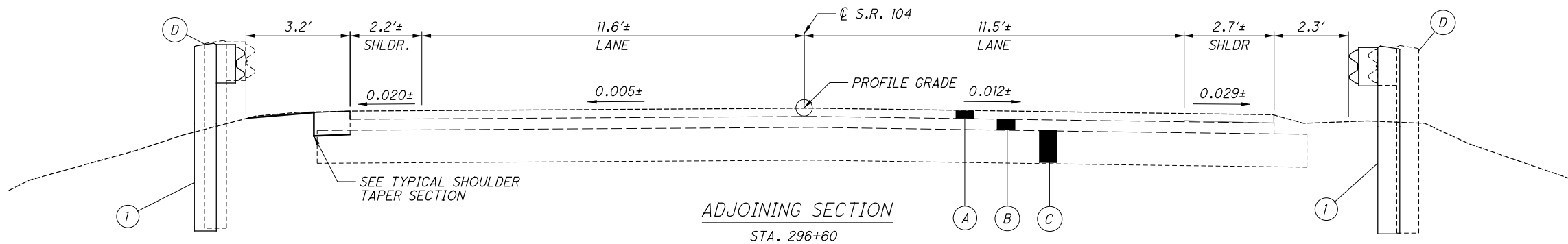
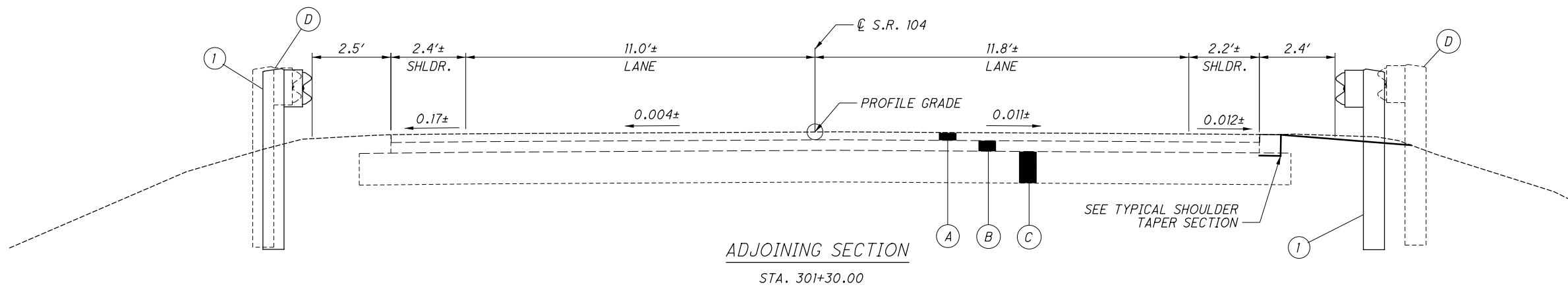
- (1) ITEM 606 - GUARDRAIL, TYPE MGS
- (2) ITEM 442 - 1/2" ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (448)
- (3) ITEM 302 - 7" ASPHALT CONCRETE BASE, PG64-22
- (4) ITEM 304 - 6" AGGREGATE BASE
- (5) ITEM 407 - TACK COAT
- (6) ITEM 407 - TACK COAT
- (7) ITEM 204 - SUBGRADE COMPACTION
- (8) ITEM 659 - SEEDING AND MULCHING

- (9) ITEM 526 - REINFORCED CONCRETE APPROACH SLABS (T=15"), AS PER PLAN
- (10) INTEGRAL TYPE 4-A CURB (INCLUDED WITH ITEM 526)
- (11) ITEM 609 - CURB, TYPE 4-C
- (12) ITEM 411 - 8" STABILIZED CRUSHED AGGREGATE
- (13) ITEM 605 - AGGREGATE DRAINS
- (14) ITEM 209 - DITCH CLEANOUT 10-07-21
- (15) NEW JERSEY SHAPE CONCRETE BRIDGE RAILING MOUNTED ON APPROACH SLAB (INCLUDED WITH ITEM 526) (SEE BRIDGE PLANS)

**EXISTING LEGEND**

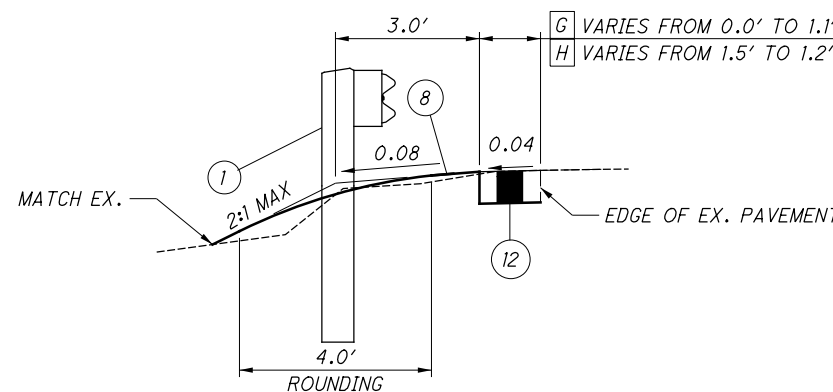
- (A) ± 3" EXISTING 442-ASPHALT CONCRETE SURFACE COURSE TYPE A (448)
- (B) ± 4" EXISTING ASPHALT CONCRETE PAVEMENT
- (C) ± 12" EXISTING AGGREGATE BASE
- (D) EXISTING GUARDRAIL

REV. BY	DATE	DESCRIPTION
BSM	10-07-21	DELETED DITCH CLEANOUT PAY ITEM
	07-02-2021	



**EXISTING LEGEND**

- (A) ± 3" EXISTING 442-ASPHALT CONCRETE SURFACE COURSE TYPE A (448)
- (B) ± 4" EXISTING ASPHALT CONCRETE PAVEMENT
- (C) ± 12" EXISTING AGGREGATE BASE
- (D) EXISTING GUARDRAIL



**LEGEND**

- (1) ITEM 606 - GUARDRAIL, TYPE MGS
- (2) ITEM 442 - 1½" ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (448)
- (3) ITEM 302 - 7" ASPHALT CONCRETE BASE, PG64-22
- (4) ITEM 304 - 6" AGGREGATE BASE
- (5) ITEM 407 - TACK COAT
- (6) ITEM 407 - TACK COAT
- (7) ITEM 204 - SUBGRADE COMPACTION
- (8) ITEM 659 - SEEDING AND MULCHING

- (9) ITEM 526 - REINFORCED CONCRETE APPROACH SLABS (T=15"), AS PER PLAN
- (10) INTEGRAL TYPE 4-A CURB (INCLUDED WITH ITEM 526)
- (11) ITEM 609 - CURB, TYPE 4-C
- (12) ITEM 411 - 8" STABILIZED CRUSHED AGGREGATE
- (13) ITEM 605 - AGGREGATE DRAINS
- (14) ~~ITEM 209 - DITCH CLEANOUT~~ [10-07-21]
- (15) NEW JERSEY SHAPE CONCRETE BRIDGE RAILING MOUNTED ON APPROACH SLAB (INCLUDED WITH ITEM 526) (SEE BRIDGE PLANS)

REV. BY	DATE	DESCRIPTION
BSM	10-07-21	DELETED DITCH CLEANOUT PAY ITEM
DATE COMPLETED		07-02-2021

SHEET NUM.										PART.		ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.	CALCULATED PDF	CHECKED KJU
4	5	7	8	9	12	17	36	01/S>2 /BR											
								LS		201	11000	LS		ROADWAY					
						223		223		202	23000	223	SY	CLEARING AND GRUBBING					
						2354		2354		202	38000	2,354	FT	PAVEMENT REMOVED					
						258		258		202	75000	258	FT	GUARDRAIL REMOVED					
						690		690		203	10000	690	CY	FENCE REMOVED	BSM	10-07-21	ADDED COMPACTION TESTING PAY ITEM		
														EXCAVATION	BSM	10-07-21	DELETED DITCH CLEANOUT PAY ITEM		
						842		842		203	20000	842	CY	EMBANKMENT	REV. BY DATE		DESCRIPTION		
						484		484		204	10000	484	SY	SUBGRADE COMPACTION	DATE COMPLETED		07-02-2021		
						504		504		204	50000	504	SY	GEOTEXTILE FABRIC					
					10-07-21	1200		1200		209	10000	1,200	FT	DITCH CLEANOUT					
						1925		1925		606	15050	1,925	FT	GUARDRAIL, TYPE MGS					
						5		5		606	26150	5	EACH	ANCHOR ASSEMBLY, MGS TYPE E (MASH 2016)					
						1		1		606	26550	1	EACH	ANCHOR ASSEMBLY, MGS TYPE T					
						4		4		606	35002	4	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1					
						221		221		607	15000	221	FT	FENCE, TYPE 47					
								10-07-21	LS	878	25000	LS		INSPECTION AND COMPACTION TESTING OF UNBOUND MATERIALS					
														EROSION CONTROL					
						504		504		601	20000	504	SY	CRUSHED AGGREGATE SLOPE PROTECTION					
	1					1		1		601	21050	1	SY	TIED CONCRETE BLOCK MAT WITH TYPE 1 UNDERLAYMENT					
						193		193		601	21060	193	SY	TIED CONCRETE BLOCK MAT WITH TYPE 2 UNDERLAYMENT					
						2		2		659	00100	2	EACH	SOIL ANALYSIS TEST					
						242		242		659	00300	242	CY	TOPSOIL					
						2175		2175		659	10000	2,175	SY	SEEDING AND MULCHING					
						109		109		659	14000	109	SY	REPAIR SEEDING AND MULCHING					
						109		109		659	15000	109	SY	INTER-SEEDING					
						0.31		0.31		659	20000	0.31	TON	COMMERCIAL FERTILIZER					
						0.45		0.45		659	31000	0.45	ACRE	LIME					
						13		13		659	35000	13	MGAL	WATER					
								45000		832	30000	45,000	EACH	EROSION CONTROL					
														DRAINAGE					
	10							10		605	13300	10	FT	6" UNCLASSIFIED PIPE UNDERDRAINS					
	5					39		44		605	31100	44	FT	AGGREGATE DRAINS					
	10							10		611	01100	10	FT	6" CONDUIT, TYPE C					
	10					190		200		611	01500	200	FT	6" CONDUIT, TYPE F					
	10							10		611	01800	10	FT	8" CONDUIT, TYPE B					
	10							10		611	02000	10	FT	8" CONDUIT, TYPE C					
	8							8		611	04400	8	FT	12" CONDUIT, TYPE B					
	8							8		611	04600	8	FT	12" CONDUIT, TYPE C					
	8							8		611	05100	8	FT	12" CONDUIT, TYPE E					
	8							8		611	05200	8	FT	12" CONDUIT, TYPE F					
	1							1		611	99710	1	EACH	PRECAST REINFORCED CONCRETE OUTLET					
	1							1		611	99720	1	EACH	INSPECTION WELL					
														PAVEMENT					
			128					128		251	01000	128	SY	PARTIAL DEPTH PAVEMENT REPAIR (441)					
			32					32		253	01000	32	SY	PAVEMENT REPAIR					
						57		57		255	20000	57	FT	FULL DEPTH PAVEMENT SAWING					
			8					8		301	46000	8	CY	ASPHALT CONCRETE BASE, PG64-22					
						50		50		302	46000	50	CY	ASPHALT CONCRETE BASE, PG64-22					
						6		78		304	20000	84	CY	AGGREGATE BASE					
						4		31		407	10000	35	GAL	TACK COAT					
								1		411	10000	1	CY	STABILIZED CRUSHED AGGREGATE					
						3		3		441	50000	3	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22					
								21		442	20000	21	CY	ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (448)					
								29		609	24510	29	FT	CURB, TYPE 4-C					
			6					6		617	10100	6	CY	COMPACTED AGGREGATE					
			0.03					0.03		617	25000	.03	MGAL	WATER					
														TRAFFIC CONTROL					
						10		10		626	00102	10	EACH	BARRIER REFLECTOR, TYPE 1 (BI-DIRECTIONAL)					
						27		27		626	00110	27	EACH	BARRIER REFLECTOR, TYPE 2 (BI-DIRECTIONAL)					
						50		50		630	02100	50	EACH	GROUND MOUNTED SUPPORT, NO. 2 POST					

GENERAL SUMMARY

FRA - 104 - 5.63

