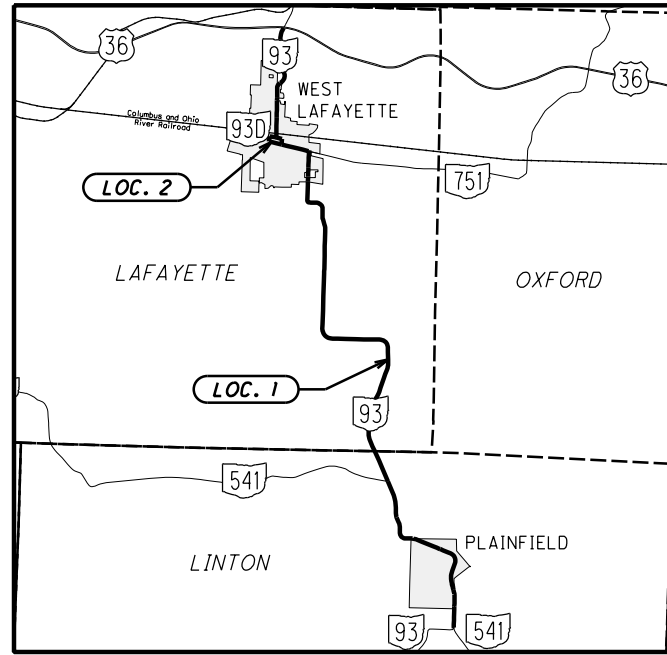


COS - SR 93/SR 93D-03.52/00.00
 210432 PID - 93036
 Dist 5 7/29/2021

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

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LOCATION MAP

LATITUDE: 40° 14' 36" LONGITUDE: 81° 44' 12"

PORTION TO BE IMPROVED -----

DESIGN DESIGNATION	COS-93	COS-93D
FUNCTIONAL CLASSIFICATION	RMC	RMC
OPENING YEAR ADT (2021)	2,100	4,100
DESIGN YEAR ADT (2033)	2,100	4,100
DESIGN HOURLY VOLUME (2033)	200	400
DIRECTIONAL DISTRIBUTION	52%	50%
TRUCKS (24 HOUR B&C)	3%	4%
DESIGN SPEED	55/35 MPH	35 MPH
LEGAL SPEED	55/35 MPH	35 MPH

RMC = RURAL MAJOR COLLECTOR

DESIGN EXCEPTIONS

NONE

ADA DESIGN WAIVER

NONE

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:
 OHIO DEPARTMENT OF TRANSPORTATION
 DISTRICT 5 PLANNING & ENGINEERING

STATE OF OHIO
 DEPARTMENT OF TRANSPORTATION
COS-93/93D-3.52/0.00

VILLAGE OF PLAINFIELD
 VILLAGE OF WEST LAFAYETTE
 LINTON AND LAFAYETTE TOWNSHIPS
 COSHOCTON COUNTY

INDEX OF SHEETS

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PROJECT DESCRIPTION

ASPHALT CONCRETE RESURFACING AND RELATED WORK ON S.R. 93/93D IN COSHOCTON COUNTY INCLUDING CURB RAMP REPAIRS IN THE VILLAGES OF PLAINFIELD AND WEST LAFAYETTE AND DECK PATCHING/SEALING ON VARIOUS STRUCTURES.

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

LOCATION	PLAN	COUNTY	ROUTE	BEGIN	END	LENGTH	CITY/VILLAGE
NO.	SPLIT			SLM	SLM	MILES	
1	1	COS	93	3.52	11.94	8.42	PLAINFIELD/W. LAFAYETTE
2	1	COS	93D	0.00	0.28	0.28	W. LAFAYETTE

2019 SPECIFICATIONS

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

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL NOT REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.

ENGINEER'S SEAL	STANDARD CONSTRUCTION DRAWINGS	SUPPLEMENTAL SPECIFICATIONS
<p>SIGNED: <i>Jason Lutz</i> DATE: 9/4/2020</p>	BP-3.1 1/17/20	800 4/16/21
	BP-3.2 1/18/19	832 10/19/18
	BP-4.1 7/19/13	861 4/17/20
	BP-5.1 1/18/19	
	BP-7.1 7/17/20	
	MT-97.10 4/19/19	
	MT-97.12 1/20/17	
	MT-99.20 4/19/19	
	MT-101.90 7/17/20	
	MT-105.10 1/17/20	
	TC-41.20 10/18/13	
	TC-42.20 10/18/13	

APPROVED: *Jason Lutz*
 DATE 9/3/2020 DISTRICT DEPUTY DIRECTOR

APPROVED: *Jason Lutz*
 DATE 6/15/21 DIRECTOR, DEPARTMENT OF TRANSPORTATION

FEDERAL PROJECT NO. E150(644)
 CONSTRUCTION PROJECT NO. 93036
 RAILROAD INVOLVEMENT COLUMBUS AND OHIO RIVER RAILROAD
 COS-93/93D-3.52/0.00
 1/25

RESIDENTIAL AND COMMERCIAL DRIVES

AN ESTIMATED QUANTITY OF ITEM 441, ASPHALT CONCRETE, HAS BEEN INCLUDED IN THE PLAN TO BE USED AS DIRECTED BY THE ENGINEER TO PAVE APPROACH AREAS TO EXISTING DRIVEWAYS. PAVING SHALL EXTEND AN AVERAGE OF **FOUR (4) FEET** INTO THE DRIVEWAY (MEASURED FROM THE EDGE OF PAVEMENT OR PAVED SHOULDER IF PRESENT). THE ENGINEER MAY EXTEND PAVING DISTANCE FOR ASPHALT DRIVEWAYS IN ORDER TO PROVIDE A SMOOTH TRANSITION AND/OR ELIMINATE SHORT DISTANCES OF UNDESIRABLE PROFILE. ABRUPT CHANGES IN DRIVEWAY PROFILE ARE NOT PERMITTED.

AN ESTIMATED QUANTITY OF ITEM 202, WEARING COURSE REMOVED HAS BEEN INCLUDED IN THE PLAN TO BE USED AS DIRECTED BY THE ENGINEER TO CREATE BUTT JOINTS ON GRAVEL DRIVES AND ITEM 254 PAVEMENT PLANING, ASPHALT CONCRETE FOR EXISTING ASPHALT DRIVES/APRONS. FIELD DRIVES AND OIL WELL DRIVES SHALL NOT BE PAVED.

IF AN EXISTING APRON CANNOT BE PAVED OVER (FOR EXAMPLE, BROKEN INTO SMALL PIECES) AS DETERMINED BY THE ENGINEER, IT SHALL BE REMOVED BEFORE BEING PAVED BACK 4' INTO THE DRIVEWAY. ALL GRADING, PRIME OR TACK COAT, MATERIALS, LABOR, EQUIPMENT TOOLS AND INCIDENTALS NECESSARY TO COMPLETE THE DRIVES SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE ITEMS LISTED BELOW.

BUTT JOINTS AT THE END OF ALL DRIVEWAYS SHALL BE **1.25"** IN DEPTH TO ACCOMMODATE THE SURFACE COURSE. NO WORK SHALL BE PERFORMED ON DRIVEWAYS LOCATED IN CURB SECTIONS UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

THE FOLLOWING QUANTITIES HAVE BEEN CARRIED TO THE LOCATION SUB-SUMMARIES FOR THE ABOVE DESCRIBED PURPOSE:

**ITEM 202, WEARING COURSE REMOVED
LOCATION 1: 110 SQ.YD.**

**ITEM 254, PAVEMENT PLANING, ASPHALT CONCRETE, 1.25"
LOCATION 1: 1,150 SQ.YD.**

**ITEM 441, ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448),
PG 70-22M
LOCATION 1: 40 CU.YD.**

CURVE WIDENING

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE LOCATION SUB-SUMMARIES AND SHALL BE USED AS DIRECTED BY THE ENGINEER FOR AREAS OF CURVE WIDENING THROUGHOUT THE PROJECT LIMITS.

**ITEM 254, PAVEMENT PLANING, ASPHALT CONCRETE, 1.25"
LOCATION 1: 2,000 SQ.YD.**

**ITEM 441, ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448),
PG 70-22M
LOCATION 1: 75 CU.YD.**

**ITEM 441, ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (448)
LOCATION 1: 60 CU.YD.**

MAILBOX TURN OUTS

A QUANTITY OF ASPHALT CONCRETE HAS BEEN PROVIDED IN THE PLAN TO COVER MAILBOX TURN OUTS. PAVING SHALL EXTEND TO THE MATCH THE EXISTING WIDTH OF THE TURN OUT. THE ENGINEER MAY EXTEND PAVING TO MATCH STANDARD DRAWING **BP-4.1** IF NECESSARY.

ANY EXTRA GRADING OF THE SHOULDERS, PRIME OR TACK COAT, MATERIALS, LABOR, EQUIPMENT, TOOLS AND INCIDENTALS NECESSARY TO COMPLETE MAILBOX TURN OUTS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE ITEMS LISTED BELOW.

**ITEM 254, PAVEMENT PLANING, ASPHALT CONCRETE, 1.25"
LOCATION 1: 700 SQ.YD.**

**ITEM 441, ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448),
PG 70-22M
LOCATION 1: 25 CU.YD.**

**ITEM 441, ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (448)
LOCATION 1: 20 CU.YD.**

SEEDING AND TOPSOIL

THE FOLLOWING CONTINGENCY QUANTITIES HAVE BEEN CARRIED TO THE LOCATION SUB-SUMMARY TO BE USED AS DIRECTED BY THE ENGINEER FOR CURB RAMP WORK LOCATIONS SHOWN ON **SHEET 12.**

**ITEM 653, TOPSOIL, FURNISHED AND PLACED
LOCATION 1: 5 CU. YD.**

**ITEM 659, SEEDING AND MULCHING, CLASS 1
LOCATION 1: 500 SQ. YD.**

PEDESTRIAN CROSSING SIGNS

THE FOLLOWING QUANTITIES HAVE BEEN CARRIED TO THE LOCATION SUB-SUMMARY FOR PLACEMENT OF PEDESTRIAN CROSSING SIGNS (S-1 THROUGH S-4) PER **TC-41.20** AND **TC-42.20** AT THE LOCATIONS SHOWN ON **SHEET 17.**

**ITEM 630, GROUND MOUNTED SUPPORT, NO. 3 POST
LOCATION 1: 56.0 FT.**

**ITEM 630, SIGN, FLAT SHEET
LOCATION 1: 33.0 SQ. FT.**

ITEM 209, PREPARING SUBGRADE FOR SHOULDER PAVING, AS PER PLAN

BEFORE PLACEMENT OF THE SURFACE COURSE, WHILE PERFORMING LINEAR GRADING, THE CONTRACTOR SHALL EXCAVATE AN AREA TEN (10) INCHES WIDE OUTSIDE THE EXISTING PAVED SHOULDER TO PROVIDE A LEVEL SURFACE FREE OF VEGETATION FOR CONSTRUCTION OF THE SAFETY EDGE.

DURING LINEAR GRADING, THE CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE FROM THE ROADWAY SURFACE TO THE SHOULDER BREAK, THE EXISTING SHOULDERS SHALL BE GRADED AND SHAPED USING A GRADER OF ADEQUATE SIZE TO PERFORM THE WORK TO THE SATISFACTION OF THE ENGINEER.

ALL EXCESS MATERIAL REMAINING AFTER LINEAR GRADING IS COMPLETED THAT HAS NOT BEEN DISPOSED OF ON-SITE, SHALL BE REMOVED AND DISPOSED OFF-SITE BY THE CONTRACTOR PRIOR TO PLACEMENT OF THE SURFACE COURSE AND SAFETY EDGE.

GRADED SHOULDERS OF 12 INCHES OR LESS WHERE THE SAFETY EDGE CAN BE OMITTED, THE PREPARING SUBGRADE FOR SHOULDER PAVING CAN ALSO BE OMITTED. THE CONTRACTOR WILL ONLY BE PAID FOR AREAS WHERE THE ABOVE WORK IS BEING PREFORMED.

ALL EQUIPMENT, LABOR, AND INCIDENTALS REQUIRED TO PERFORM LINEAR GRADING AND EXCAVATION OF SHOULDER SHALL BE INCLUDED FOR PAYMENT IN THE UNIT PRICE BID FOR ITEM 209, PREPARING SUBGRADE FOR SHOULDER PAVING, AS PER PLAN.

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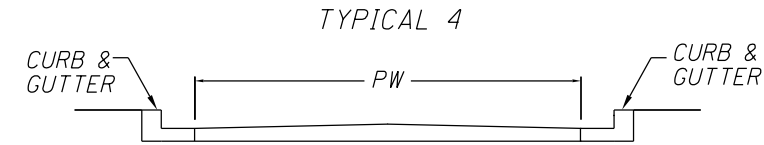
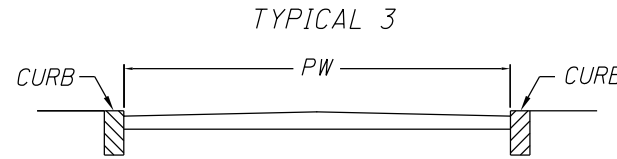
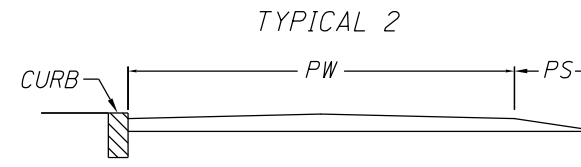
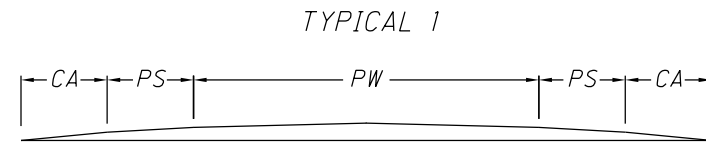
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GENERAL NOTES

**COS-93/93D-
3.52/0.00**

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PW = PAVEMENT WIDTH
 PS = PAVED SHOULDER
 CA = COMPACTED AGGREGATE



SHOULDER DATA

LOCATION	COUNTY	ROUTE	BEGIN LOG POINT SLM	END LOG POINT SLM	LENGTH		TYPICAL	PAVED SHOULDER WIDTH (FT.) (WIDTHS ARE AVERAGE THROUGHOUT SECTION)		SHOULDER AREA SQ. YD.	209		254		407		408	441				617	
					MILES	LIN. FT.		A	B		PREPARING SUBGRADE FOR SHOULDER PAVING, AS PER PLAN	PAVEMENT PLANING, ASPHALT CONCRETE, 1.25"	PAVEMENT PLANING, ASPHALT CONCRETE, 2.25"	NON-TRACKING TACK COAT @ 0.05 GAL./S.Y.	NON-TRACKING TACK COAT @ 0.08 GAL./S.Y.	PRIME COAT, AS PER PLAN @ 0.40 GAL./S.Y.	SMZXCIT	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (448)	SMZXCIT	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG70-22M	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG70-22M (SAFETY EDGE)	SMZXCIT	COMPACTED AGGREGATE, AS PER PLAN (2' WIDTH)
1	COS	S.R. 93	3.52	5.43	1.91	10,084.8	1	1	1	2,241.1	3.82	2,196.7	44.4**	112.1	179.3	896.4	1.00	62.3	1.25	77.8	29.9	2.00	249.0
			5.43	5.66	0.23	1,214.4	1	1	1	269.9	0.46		269.9	13.5	21.6	108.0	1.00	7.5	1.25	9.4	3.6	2.00	30.0
			5.66	10.21	4.55	24,024.0	1	1	1	5,338.7	9.10	5,249.8	88.9**	266.9	427.1	2,135.5	1.00	148.3	1.25	185.4	71.2	2.00	593.2
			10.53	10.59	0.06	316.8	2	6	6	422.4			422.4	21.1	33.8	169.0	1.00	11.7	1.25	14.7		2.00	7.8
			10.59	10.68	0.09	475.2	1	1	1	105.6			105.6	5.3	8.4	42.2	1.00	2.9	1.25	3.7		2.00	11.7
			10.88	11.73	0.85	4,488.0	1	1	1	997.3	1.70	997.3		49.9	79.8	398.9	1.00	27.7	1.25	34.6	13.3	2.00	110.8
			11.73	11.94*	0.21	1,108.8	1	1	1	246.4	0.42		246.4	12.3	19.7	98.6	1.00	6.8	1.25	8.6	3.3	2.00	27.4
			*STOP AT JOINT (DON'T PAVE RADIUS) **SEE SHEET 11 FOR DETAILS																				
BRIDGE DEDUCTIONS										(517.6)	(0.26)	(275.9)	(241.7)	(25.9)	(41.4)		1.00	(14.4)	1.25	(18.0)	(3.5)	2.00	(28.8)
SUB-TOTALS														455.2	728.3				316.2	117.8			
LOCATION 1 TOTALS (CARRIED TO SUB-SUMMARY)											15.24	8,167.9	935.9	1,183.5	3,848.6		252.8		434.0		1,001.1		
2	COS	S.R. 93D	0.00	0.13	0.13	686.4	1	1	1	152.5			152.5	7.6	12.2	61.0	1.00	4.2	1.25	5.3		2.00	16.9
			SUB-TOTALS													7.6	12.2						
			LOCATION 2 TOTALS (CARRIED TO SUB-SUMMARY)												152.5	19.8	61.0		4.2		5.3		16.9

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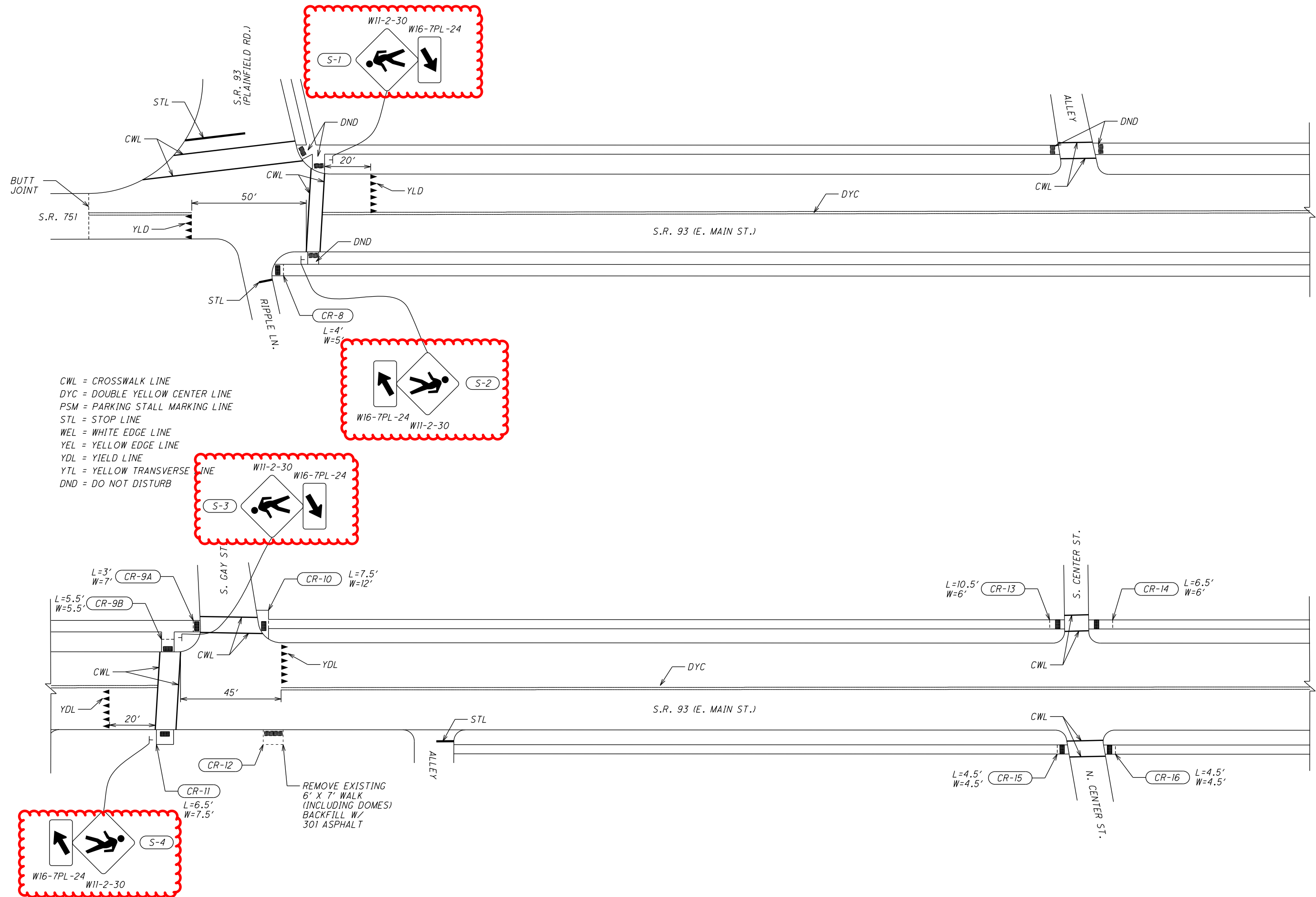
SHOULDER DATA

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HORIZONTAL
SCALE IN FEET

PLAN SHEET
S.R. 93 - WEST LAFAYETTE

COS-93/93D-
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LOCATION 1 SHEET TOTALS							ITEM	ITEM EXT.	TOTAL	UNIT	DESCRIPTION
3	4	5	10	13	14	20					
						727	621	00100	727	EACH	TRAFFIC CONTROL
						727	621	54000	727	EACH	RPM
											RAISED PAVEMENT MARKER REMOVED
56.0							630	03100	56.0	FT	GROUND MOUNTED SUPPORT, NO. 3 POST
33.0							630	80100	33.0	SF	SIGN, FLAT SHEET
				15.35			644	00104	15.35	MILE	EDGE LINE, 6"
				8.04			644	00300	8.04	MILE	CENTER LINE
					782		644	00500	782	FT	STOP LINE
					1,223		644	00600	1,223	FT	CROSSWALK LINE
					2		644	01000	2	EACH	RAILROAD SYMBOL MARKING
					65		644	20800	65	FT	YIELD LINE
				0.45			646	10010	0.45	MILE	EDGE LINE, 6"
				0.23			646	10200	0.23	MILE	CENTER LINE
											STRUCTURE REPAIR (COS-93-0404)
			1				202	11301	1	CY	PORTIONS OF STRUCTURE REMOVED, AS PER PLAN
			1				511	34445	1	CY	CLASS QC2 CONCRETE, BRIDGE DECK, AS PER PLAN
			1565				512	10300	1,565	SY	SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN
			64				516	31011	64	FT	2" DEEP JOINT SEALER, AS PER PLAN (B)
											STRUCTURE REPAIR (COS-93-0543)
			507				512	10300	507	SY	SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN
											STRUCTURE REPAIR (COS-93-0645)
			1				202	11301	1	CY	PORTIONS OF STRUCTURE REMOVED, AS PER PLAN
			1				511	34445	1	CY	CLASS QC2 CONCRETE, BRIDGE DECK, AS PER PLAN
			308				512	10300	308	SY	SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN
			64				516	31011	64	FT	2" DEEP JOINT SEALER, AS PER PLAN (B)
											STRUCTURE REPAIR (COS-93-0701)
			1				202	11301	1	CY	PORTIONS OF STRUCTURE REMOVED, AS PER PLAN
			1				511	34445	1	CY	CLASS QC2 CONCRETE, BRIDGE DECK, AS PER PLAN
			357				512	10300	357	SY	SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN
			68				516	31011	68	FT	2" DEEP JOINT SEALER, AS PER PLAN (B)
											STRUCTURE REPAIR (COS-93-1176)
			1				202	11301	1	CY	PORTIONS OF STRUCTURE REMOVED, AS PER PLAN
			1				511	34445	1	CY	CLASS QC2 CONCRETE, BRIDGE DECK, AS PER PLAN
			1,689				512	10300	1,689	SY	SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN
			80				516	31011	80	FT	2" DEEP JOINT SEALER, AS PER PLAN (B)
											MAINTENANCE OF TRAFFIC
		40					614	11110	40	hour	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE
	75						614	12460	75	EACH	WORK ZONE MARKING SIGN
	14						614	13000	14	CY	ASPHALT CONCRETE FOR MAINTAINING TRAFFIC
		6					614	18601	6	SNMT	PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN
	8.27						614	21100	8.27	MILE	WORK ZONE CENTER LINE, CLASS I, 642 PAINT
	16.54						614	21550	16.54	MILE	WORK ZONE CENTER LINE, CLASS III, 642 PAINT
	15.80						614	22110	15.80	MILE	WORK ZONE EDGE LINE, CLASS I, 6", 642 PAINT
	92						614	26610	92	FT	WORK ZONE STOP LINE, CLASS III, 642 PAINT

CALCULATED	LIME	CHECKED	JSL
LOCATION 1 SUB-SUMMARY			
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22 25			

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LOCATION TOTALS		PLAN SPLIT	ITEM	ITEM EXT.	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET
LOC. 1	LOC. 2	01/STR/PV						
ROADWAY								
7,564	528	8,092	202	23500	8,092	SY	WEARING COURSE REMOVED	
994	319	1,313	202	30000	1,313	SF	WALK REMOVED	
273		273	202	32000	273	FT	CURB REMOVED	
	81	81	202	32500	81	FT	CURB AND GUTTER REMOVED	
15.24		15.24	209	72051	15.24	MILE	PREPARING SUBGRADE FOR SHOULDER PAVING, AS PER PLAN	3
430	154	584	608	10000	584	SF	4" CONCRETE WALK	
542	225	767	608	52000	767	SF	CURB RAMP	
104	16	120	608	53020	120	SF	DETECTABLE WARNING	
	38	38	609	12000	38	FT	COMBINATION CURB AND GUTTER, TYPE 2	
232		232	609	26000	232	FT	CURB, TYPE 6	
EROSION CONTROL								
5		5	653	10000	5	CY	TOPSOIL FURNISHED AND PLACED	
500		500	659	00500	500	SY	SEEDING AND MULCHING, CLASS 1	
DRAINAGE								
13		13	611	98630	13	EACH	CATCH BASIN ADJUSTED TO GRADE	
11	1	12	611	99654	12	EACH	MANHOLE ADJUSTED TO GRADE	
5	1	6	613	41300	6	CY	LOW STRENGTH MORTAR BACKFILL (TYPE 2)	
12	10	22	638	10800	22	EACH	VALVE BOX ADJUSTED TO GRADE	
PAVEMENT								
525	25	550	253	02000	550	CY	PAVEMENT REPAIR	
104,339		104,339	254	01000	104,339	SY	PAVEMENT PLANING, ASPHALT CONCRETE ,1.25"	
19,227	5,258	24,485	254	01000	24,485	SY	PAVEMENT PLANING, ASPHALT CONCRETE , 2.25"	
1		1	301	46000	1	CY	ASPHALT CONCRETE BASE, PG64-22	
16,556	727	17,283	407	20000	17,283	GAL	NON-TRACKING TACK COAT	
3,849	61	3,910	408	10001	3,910	GAL	PRIME COAT, AS PER PLAN	2
254	19	273	441	50000	273	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22	
4,016	184	4,200	441	50100	4,200	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG70-22M	
3,435	147	3,582	441	50200	3,582	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (448)	
276		276	516	31011	276	FT	2" DEEP JOINT SEALER, AS PER PLAN (A)	2
1,002	17	1,019	617	10101	1,019	CY	COMPACTED AGGREGATE, AS PER PLAN	2
TRAFFIC CONTROL								
727		727	621	00100	727	EACH	RPM	
727		727	621	54000	727	EACH	RAISED PAVEMENT MARKER REMOVED	
56.0		56.0	630	03100	56.0	FT	GROUND MOUNTED SUPPORT, NO. 3 POST	
33.0		33.0	630	80100	33.0	SF	SIGN, FLAT SHEET	
15.35	0.26	15.61	644	00104	15.61	MILE	EDGE LINE, 6"	
8.04	0.28	8.32	644	00300	8.32	MILE	CENTER LINE	

CALCULATED LIME CHECKED JSL		
GENERAL SUMMARY		
COS-93/93D- 3.52/0.00		
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24		
25		