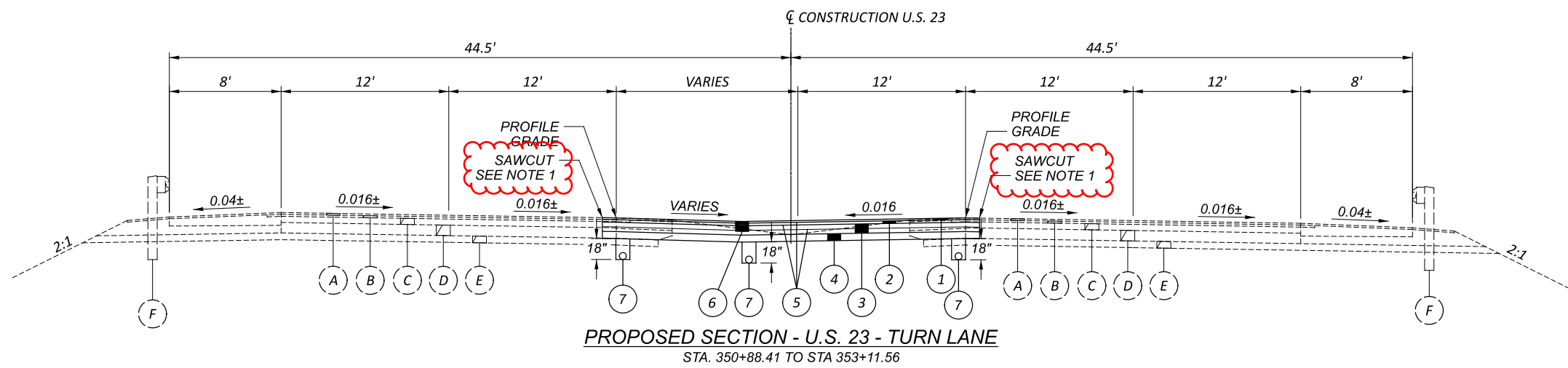


EXISTING SECTION - U.S. 23



PROPOSED SECTION - U.S. 23 - TURN LANE
STA. 350+88.41 TO STA 353+11.56

EXISTING LEGEND

- (A) 1½" ± ASPHALT CONCRETE SURFACE COURSE
- (B) 1¾" ± ASPHALT CONCRETE INTERMEDIATE COURSE
- (C) 5¼" ± ASPHALT CONCRETE PAVEMENT
- (D) 9" ± REINFORCED CONCRETE
- (E) EXISTING SUBBASE
- (F) EXISTING GUARDRAIL

PROPOSED LEGEND

- (1) ITEM 442 - 1½" ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A, (446)
- (2) ITEM 442 - 2¼" ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A, (446)
- (3) ITEM 302 - 8" ASPHALT CONCRETE BASE, PG64-22 (2 EQUAL LIFTS)
- (4) ITEM 304 - 6" AGGREGATE BASE
- (5) ITEM 407 - TACK COAT (0.055 GAL./SY)
- (6) ITEM 839 - TRENCH DRAIN TYPE B, WITH STANDARD GRATE
- (7) ITEM 605 - 6" BASE PIPE UNDERDRAINS
- (8) ITEM 659 - SEEDING AND MULCHING
- (9) ITEM 204 - 12" UNDERCUT AND REPLACE (GRANULAR MATERIAL, TYPE B, WITH GEOTEXTILE)
- (10) ITEM 204 - SUBGRADE COMPACTION

NOTES:
 1. TRIM AND CUT PAVEMENT EDGE, AS PER CMS 203.04(E).
 3. SEE PLANS FOR TRENCH DRAIN LOCATIONS.

ROS-23-6.63

MODEL: Sheet PAPER: 34x22 (in.) DATE: 7/13/2023 TIME: 10:37:17 PM USER: mpleace
 p:\jacobson-us-vp-w-bentley.com\jacobson-us-vp-w-02\Documents\CGA19700 - VAP-STW Safety Design 2021-1130 WIP\116137-400-Engineering\Roadway\Sheets\116137_GY001.dgn

TYPICAL SECTIONS

DESIGN AGENCY

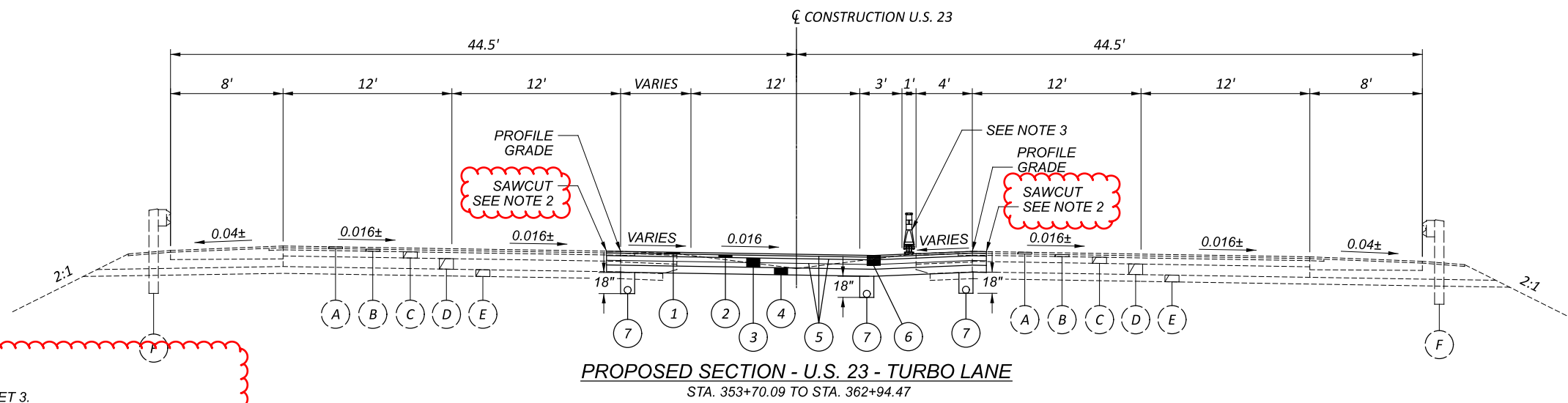
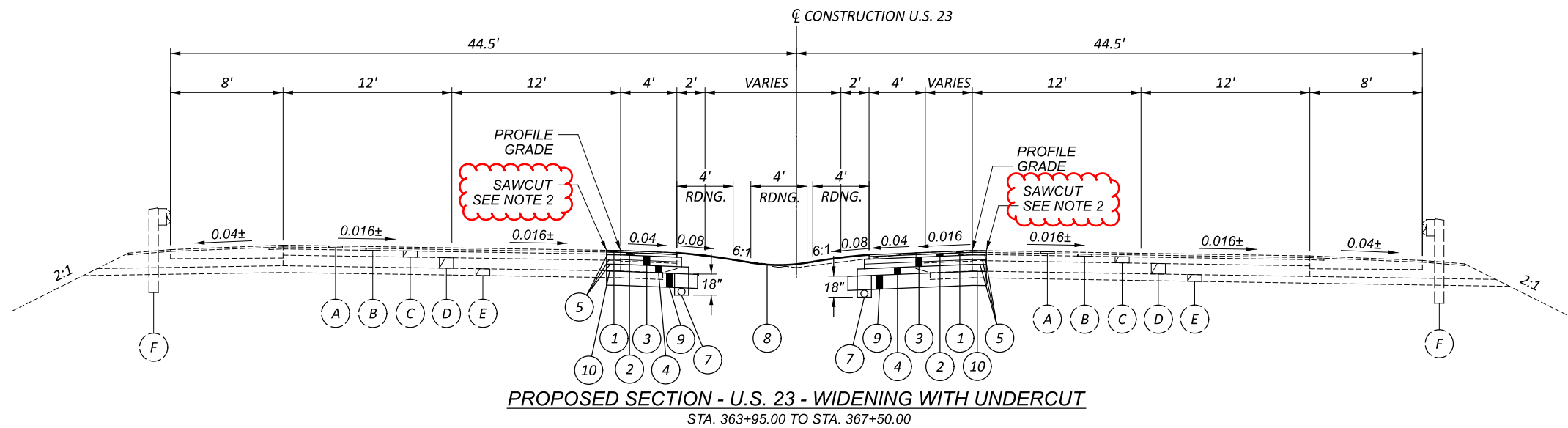
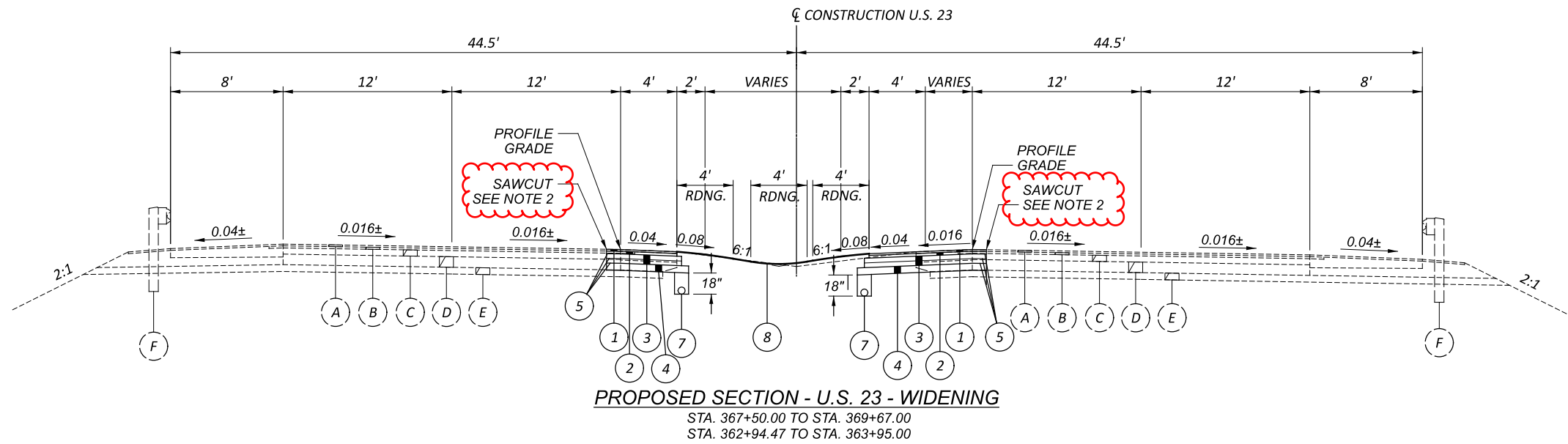
Jacobs

DESIGNER
AG

REVIEWER
MS 04/05/23

PROJECT ID
116137

SHEET TOTAL
3 49



- NOTES:**
1. FOR LEGEND, SEE SHEET 3.
 2. TRIM AND CUT PAVEMENT EDGE, AS PER CMS 203.04(E).
 3. SEE SHEET 37 FOR QUICK KURB DETAILS.
 4. SEE PLANS FOR TRENCH DRAIN LOCATIONS.

ROS-23-6.63

MODEL: Sheet PAPER: 34x22 (in.) DATE: 7/13/2023 TIME: 8:28:42 PM USER: Marlin.Pierce@jacobs.com pwc\jacobs-us-us-pw-bentley.com\jacobs-us-us-pw-02\Documents\CGA19700 - VAP-STW Safety Design 2021-1130 WIP\116137-400-Engineering\Roadway\Sheets\116137_GY002.dgn

TYPICAL SECTIONS

DESIGN AGENCY	
Jacobs	
DESIGNER	AG
REVIEWER	MS 04/05/23
PROJECT ID	116137
SHEET	TOTAL
4	49

SHEET NUM.												PART.	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET NO.
5	6	7	14	15	16	17	17A	18	19			01/SAF/21	EXT	TOTAL				
LIGHTING																		
								2				2	625	00450	2	EACH	CONNECTION, FUSED PULL APART	
								2				2	625	00460	2	EACH	CONNECTION, UNFUSED PULL APART	
								12				12	625	00480	12	EACH	CONNECTION, UNFUSED PERMANENT	
								1				1	625	10490	1	EACH	LIGHT POLE, CONVENTIONAL, NO. AT18B40	
								1				1	625	10490	1	EACH	LIGHT POLE, CONVENTIONAL, NO. AT12B40	
								2				2	625	14100	2	EACH	LIGHT POLE FOUNDATION, 24" X 8" DEEP	
								660				660	625	23200	660	FT	NO. 4 AWG 2400 VOLT DISTRIBUTION CABLE	
								360				360	625	23400	360	FT	NO. 10 AWG POLE AND BRACKET CABLE	
								26				26	625	24320	26	FT	1-1/2" DUCT CABLE WITH THREE NO. 4 AWG 2400 VOLT CABLES	
								40				40	625	25500	40	FT	CONDUIT, 3", 725.04	
								190				190	625	25902	190	FT	CONDUIT, JACKED OR DRILLED, 725.04, 3"	
								2				2	625	26253	2	EACH	LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), AS PER PLAN	
								66				66	625	29002	66	FT	TRENCH, 24" DEEP	
								2				2	625	30700	2	EACH	PULL BOX, 725.08, 18"	
								1				1	625	30706	1	EACH	PULL BOX, 725.08, 24"	
								2				2	625	32000	2	EACH	GROUND ROD	
								1				1	625	34001	1	EACH	POWER SERVICE, AS PER PLAN	
								1				1	625	34450	1	EACH	CONTROL CENTER CABINET, COMPLETE	
TRAFFIC CONTROL																		
								3				3	618	40600	3	MILE	RUMBLE STRIPS, SHOULDER (ASPHALT CONCRETE)	
								610				610	620	70010	610	FT	DELINEATOR, MISC.: CONTINUOUS CURBING SYSTEM WITH BOLLARD MARKER	
								181				181	621	00100	181	EACH	RPM	
								165				165	630	03100	165	FT	GROUND MOUNTED SUPPORT, NO. 3 POST	
								65				65	630	04100	65	FT	GROUND MOUNTED SUPPORT, NO. 4 POST	
								5				5	630	08600	5	EACH	SIGN POST REFLECTOR, YELLOW	
								4				4	630	08600	4	EACH	SIGN POST REFLECTOR, RED	
								136				136	630	80100	136	SF	SIGN, FLAT SHEET	
								8				8	630	84900	8	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	
								10				10	630	86002	10	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	
								74				74	642	30000	74	FT	REMOVAL OF PAVEMENT MARKING	
								2				2	644	00104	2	MILE	EDGE LINE, 6", WHITE	
								2				2	644	00104	2	MILE	EDGE LINE, 6", YELLOW	
								2				2	644	00204	2	MILE	LANE LINE, 6"	
								1				1	644	00300	1	MILE	CENTER LINE	
								2,529				2,529	644	00404	2,529	FT	CHANNELIZING LINE, 12"	
								45				45	644	00500	45	FT	STOP LINE	
								613				613	644	00700	613	FT	TRANSVERSE/DIAGONAL LINE	
								389				389	644	00900	389	SF	ISLAND MARKING	
								4				4	644	01300	4	EACH	LANE ARROW	
								2				2	644	01350	2	EACH	LANE REDUCTION ARROW	
								767				767	644	01510	767	FT	DOTTED LINE, 6"	

GENERAL SUMMARY

DESIGN AGENCY	
Jacobs	
DESIGNER	MRP
REVIEWER	MS
PROJECT ID	04/26/23
	116137
SHEET	TOTAL
12A	49

SHEET NUM.												PART.	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET NO.	
5	6	7	14	15	16	17	17A	18	19			01/SAF/21	EXT	TOTAL					
																MAINTENANCE OF TRAFFIC			
			1,386										1,386	254	01000	1,386	SY	PAVEMENT PLANING, ASPHALT CONCRETE, 1.5"	
			77										77	407	10000	77	GAL	TACK COAT	
			58										58	442	10000	58	CY	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446)	
	20												20	614	11110	20	hour	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	7
			2										2	614	12384	2	EACH	WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (BIDIRECTIONAL)	
													LS	614	12421	LS		DETOUR SIGNING, AS PER PLAN	9
	42												42	614	13000	42	CY	ASPHALT CONCRETE FOR MAINTAINING TRAFFIC	6
	81												81	614	13318	81	EACH	BARRIER REFLECTOR, TYPE 1 (ONE-WAY)	
			414										414	614	12800	414	EACH	WORK ZONE RAISED PAVEMENT MARKER	
			2										2	614	20010	2	MILE	WORK ZONE LANE LINE, CLASS I, 6"	
			2										2	614	22010	2	MILE	WORK ZONE EDGE LINE, CLASS I, 6" (WHITE)	
			2										2	614	22010	2	MILE	WORK ZONE EDGE LINE, CLASS I, 6" (YELLOW)	
			2,731										2,731	614	23000	2,731	FT	WORK ZONE CHANNELIZING LINE, CLASS I, 8"	
	5												5	616	10000	5	MGAL	WATER	
			4,050										4,050	622	41100	4,050	FT	PORTABLE BARRIER, UNANCHORED	
	18												18	808	18700	18	SNMT	DIGITAL SPEED LIMIT (DSL) SIGN ASSEMBLY	6
																		MISCELLANEOUS STRUCTURE	
	27												27	846	00111	27	CF	POLYMER MODIFIED ASPHALT EXPANSION JOINT SYSTEM, AS PER PLAN	5
																		INCIDENTALS	
													LS	614	11000	LS		MAINTAINING TRAFFIC	
													3	619	16000	3	MNTH	FIELD OFFICE, TYPE A	
													LS	623	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING	
													LS	624	10000	LS		MOBILIZATION	

GENERAL SUMMARY

DESIGN AGENCY

Jacobs

DESIGNER
MRP

REVIEWER
MS 04/26/23

PROJECT ID
116137

SHEET	TOTAL
13	49

REF NO.	SHEET NO.	STATION TO STATION				202		204	204	204	204		252		254		302		304		407		442	442
						PAVEMENT REMOVED		SUBGRADE COMPACTION	GRANULAR MATERIAL, TYPE B, 12"	GEOTEXTILE FABRIC	PROOF ROLLING, 2000 SY/HR		FULL DEPTH PAVEMENT SAWING		PAVEMENT PLANING, ASPHALT CONCRETE, 3.25" MAX.		8" ASPHALT CONCRETE BASE, PG64-22		AGGREGATE BASE, 6"		TACK COAT (0.055 GAL./SY)		ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446), 1.5"	ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (446), 2.25"
REMOVALS					SY		SY	CY	SY	HOUR		FT		SY		CY		CY		GAL		CY	CY	
	20, 21, 22	350+28.41	TO	369+67.00	3493							3897												
	21	355+72.77	TO	356+56.70										105.88										
ROADWAY																1105.40		829.05		820.76		207.26	310.90	
	20, 21, 22	350+28.41	TO	369+67.00																				
	21, 22	363+95.00	TO	367+50.00			823.97	30.52	823.97	0.41														

REF NO.	SHEET NO.	STATION TO STATION				254		407		442		614		614	614	614	614	614		622
						PAVEMENT PLANING, ASPHALT CONCRETE, 1.5"		TACK COAT (0.055 GAL./SY)		ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446), 1.5"		WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (BIDIRECTIONAL)		WORK ZONE RAISED PAVEMENT MARKER	WORK ZONE LANE LINE, CLASS 1, 6"	WORK ZONE EDGE LINE, CLASS 1, 6" (WHITE)	WORK ZONE EDGE LINE, CLASS 1, 6" (YELLOW)	WORK ZONE CHANNELIZING LINE, CLASS 1, 8"		PORTABLE BARRIER, ANCHORED
MOT - PHASE 1					SY		GAL		CY		EACH		EACH	MILE	MILE	MILE	FT		FT	
PCB-1	10,11	349+75.00	TO	369+95.00															2020	
PCB-2	10,11	350+20.00		370+50.00															2030	
ATT-1	10	349+50.00									1									
ATT-2	11	370+50.00									1									
YEL-1	10,11	337+50.00		376+85.00										70				0.75		
YEL-2	10,11	344+20.00		382+40.00										68				0.72		
WEL-1	10,11	337+50.00		376+85.00										70			0.75			
WEL-2	10,11	344+20.00		382+40.00										68			0.72			
LL-1	10,11	337+50.00		376+85.00											0.59					
LL-2	10,11	344+20.00		382+40.00											0.58					
CH-1	10,11	340+50.00		373+85.00														1383.37		
CH-2	10,11	347+37.50		379+40.00										70				1346.96		
PP-1	10	340+50.00		353+98.89					300	16.49	12.49									
PP-2	10	347+20.00		354+07.92					153	8.41	6.37									
PP-3	10	355+40.66		355+83.57					10	0.52	0.40									
PP-4	10	355+14.86		356+03.54					20	1.08	0.82									
PP-5	10,11	356+39.37		373+85.00					388	21.34	16.16									
PP-6	10,11	356+18.89		379+40.00					516	28.37	21.49									
TOTALS CARRIED TO GENERAL SUMMARY								1386		77	58		2	414	2.0	2.0	2.0	2731	4050	

ROADWAY AND MOT SUBSUMMARY

DESIGN AGENCY
Jacobs
 DESIGNER
 REVIEWER
 MRP
 MS 04/26/23
 PROJECT ID
 116137
 SHEET TOTAL
 14 49

REF NO.	SHEET NO.	STATION TO STATION		620	644	644	644	644	644	644	644	621	621	621	644	644	644	618							
				DELINATOR, MISC.: CONTINUOUS CURBING SYSTEM WITH BOLLARD MARKER FT	EDGE LINE, 6" WHITE MILE	EDGE LINE, 6" YELLOW MILE	LANE LINE, 6" MILE	CENTER LINE MILE	CHANNELIZING LINE, 12" FT	STOP LINE, 24" FT	DOTTED LINE, 6" FT	TRANSVERSE/DIAGONAL LINE FT	RMP, 2-WAY, WHITE/RED @ 80' SPACING EACH	RMP, 2-WAY, WHITE/RED @ 40' SPACING EACH	RMP, 2-WAY, YELLOW/YELLOW @ 80' SPACING EACH	LANE ARROW EACH	LANE REDUCTION ARROW EACH	ISLAND MARKING SF	RUMBLE STRIPS, SHOULDER (ASPHALT CONCRETE) MILE						
ELW-1	42	343+50.00	TO 354+08.00		0.20													0.18							
ELW-2	42	354+08.00	354+57.00		0.01																				
ELW-3	42	354+91.00	355+15.00		0.01																				
ELW-4	42, 43	355+15.00	383+00.00		0.53														0.50						
ELW-5	42	337+00.00	353+98.00		0.32														0.32						
ELW-6	42	353+98.00	354+41.00		0.02																				
ELW-7	42	354+67.00	355+38.00		0.02																				
ELW-8	42, 43	355+37.00	377+50.00		0.42																				
ELY-1	42	343+50.00	350+85.00			0.14													0.12						
ELY-2	42	337+00.00	350+85.00			0.25													0.24						
ELY-3	43	362+91.00	383+00.00			0.38													0.38						
ELY-4	43	362+91.00	377+50.00			0.28													0.26						
LL-1	42, 43	343+50.00	383+00.00				0.75					50													
LL-2	42, 43	337+00.00	377+50.00				0.77					51													
CL-1	42, 43	351+00.00	354+20.00					0.13						4											
CL-2	42, 43	355+21.00	362+95.00					0.29						10											
CH-1	42	354+85.00	353+22.00						236.86			6													
CH-2	42, 43	353+22.00	363+67.00						1050.97			27													
CH-3	42, 43	353+22.00	363+67.00						1044.45			27													
CH-4	42	354+30.00	354+95.00						66.97			2													
CH-5	42	354+30.00	354+95.00						63.17			2													
CH-6	42	354+30.00	354+95.00						66.57			2													
SL-1	42	354+40.00	354+72.00							32.49															
SL-2	42	354+91.00	354+97.00							12.00															
DL-1	42	352+50.00	354+30.00								191.48														
DL-2	43	363+67.00	369+67.00								574.79														
TLY-1	42	350+84.00	354+24.00									137.05													
TLY-2	42, 43	355+20.00	363+00.00									152.92													
TLW-1	42, 43	354+30.00	354+95.00									183.93													
TLW-2	42	353+22.00	363+67.00									138.89													
DM-1	42	353+72.00	359+82.00	610																					
LA-1	42		351+47.00												1										
LA-2	42		352+27.00												1										
LA-3	42		353+07.00												1										
LA-4	42		353+87.00												1										
LA-5	43		362+91.00													1									
LA-6	43		364+50.00													1									
IMY-1	42		354+24.00														9.37								
IMY-2	42		355+21.00														8.17								
IMW-1	42	354+35.00	355+10.00														371.19								
SUBTOTALS THIS SHEET												101	66	14											
TOTALS CARRIED TO GENERAL SUMMARY				610	2	2	2	1	2529	45	767	613	181	4	2	389	3								

TRAFFIC CONTROL SUBSUMMARY

DESIGN AGENCY

Jacobs

DESIGNER
TES

REVIEWER
MS 04/26/23

PROJECT ID
116137

SHEET TOTAL
17A | 49