

DEPARTMENT OF TRANSPORTATION

BEL-70-5.04 442 4-LANE RESURFACING

PART	COUNTY	ROUTE	SECTIONS	PRO. TERI	IECT MINI	NET LENGTH	VILLAGE(CITY)
				BEGIN	END	MILES	
1	BEL	I.R. 70	5.04	5.04	7.61	2.57	-
2	BEL	I.R. 70	7.61	7.61	12.62	5.01	
			9				

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

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 THESE IMPROVEMENTS WILL NOT REQUIRE THE CLOSING OF THE HIGHWAYS TO TRAFFIC AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES. LIMITED ACCESS

THIS IMPROVEMENT IS ESPECIALLY DESIGNED FOR THROUGH TRAFFIC AND HAS BEEN DECLEARED 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.

2020-10-31 13:23:10 UTC

APPROVED DATE

DISTRICT DEPUTY DIRECTOR

APPROVED DATE

127/20

DIRECTOR, DEPARTMENT OF TRANSPORTATION

TITLE SHEET -----SCHEMATIC PLAN---TYPICAL SECTION -GENERAL NOTES MAINTENANCE OF TRA GENERAL SUMMARY . PLAN SHEETS ESTIMATED QUANTIT PAVEMENT REPAIR OF TRAFFIC CONTROL SU TRAFFIC CONTROL PI

LOCATION MAP LATITUDE: N 40° 3' 20" LONGITUDE: W 81° 04' 05"

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UNDERGROUND UTILITIES Contact Two Working Days	STA	STANDARD CONSTRUCTION DRAWINGS							ENGINEER'S SEAL:
Before You Dig	BP-2.1	7/17/15	MT-95.30	7/19/19	TC-41.20	10/18/13	800-19	ICATIONS	
	BP-2.3	7/18/14	MT-95.50	7/21/17	TC-42.20	10/18/13	808	1/18/19	TE OF OL
	BP-2.5	7/19/13	MT-98.10	1/17/20	TC-52.10	10/18/13	832	10/19/18	
CHIO811.org	BP-3.1	1/17/20	MT-98.11	1/17/20	TC-52.20	7/20/18	908	10/20/17	PAUL
Vinounary	BP-9.1	1/18/19	MT-98.20	4/19/19	TC-65.10	1/17/14	the second second second second		HERMAN
Before You Dig	A.		MT-98.22	1/17/20	TC-65.11	7/21/17			E-74848
011100111 0 1 1 1 000 000 0701			MT-98.28	1/17/20	TC-71.10	1/19/18			10.9 0.4
OHIO811, 8-1-1, or 1-800-362-2764	DM-4.3	1/15/16	MT-99.20	4/19/19	TC-72.20	7/20/18			CISTER!
(Non-members must be called directly)	DM-4.4	1/15/16	MT-101.90	7/17/20	TC-73.20	1/17/20	0.00	-	ONAL ENGINI
			MT-104.10	10/16/15		11 M.	8	CIAL	11/1/10/10/10/10
PLAN PREPARED BY:			MT-105.10	1/17/20		4 6 B 4 6 7 7	PROV	ISIONS	ODIA
ODOT DISTRICT II]				-		SIGNED: A. Cem
ENGINEERING									in the first
									10ATE: 10127120

E-SIGNED by Thomas Corey on 2020-10-31 13:23:10 GMT

INDEX OF SHEETS

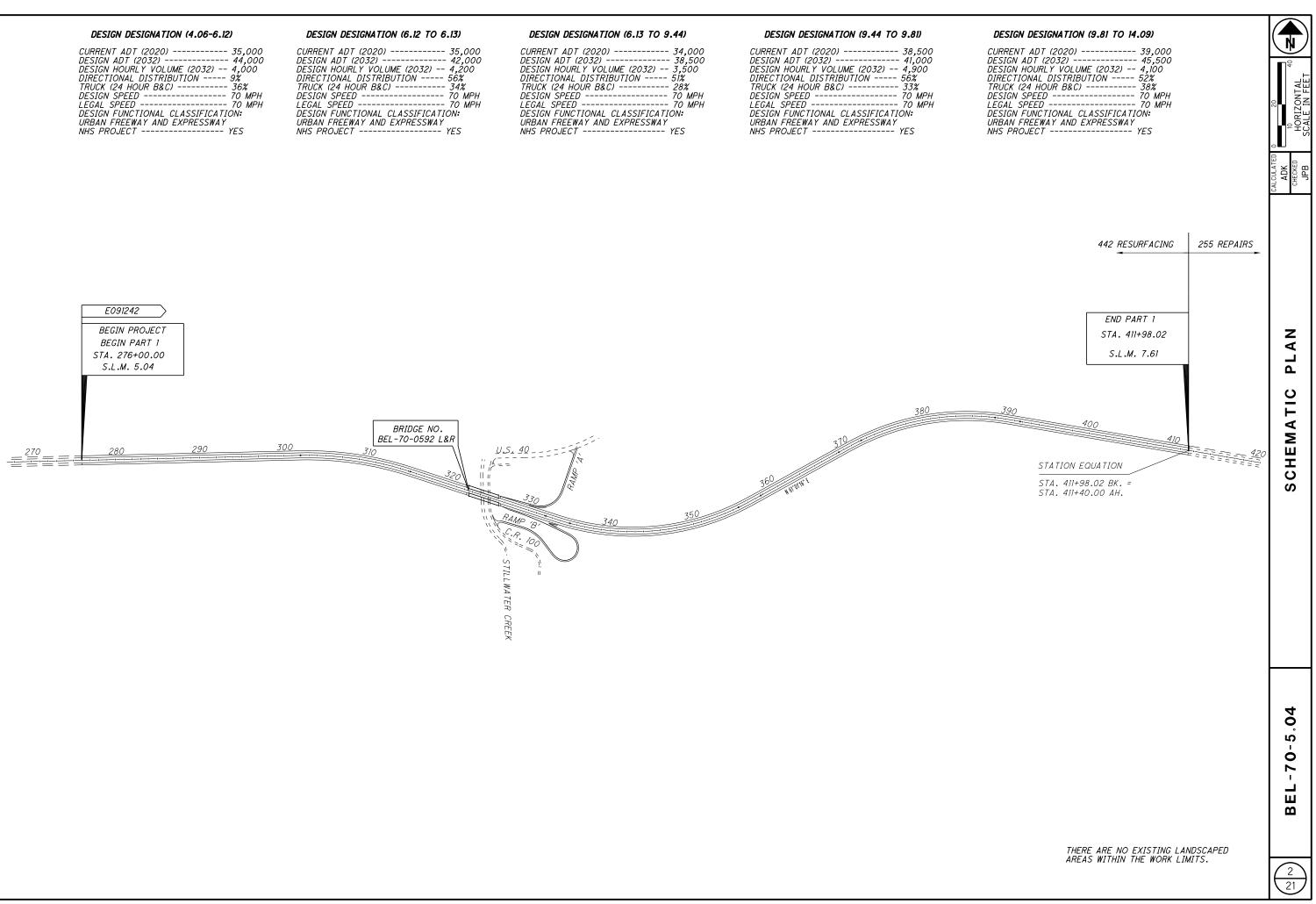
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UB-SUMMARY 2	0
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E	RAILROAD INVOLVEMENT	CONSTRUCTION PROJECT NO.	PID NO.	FEDERAL PROJECT NO.
BEL-70-5.04	NONE		87341	E091(242)

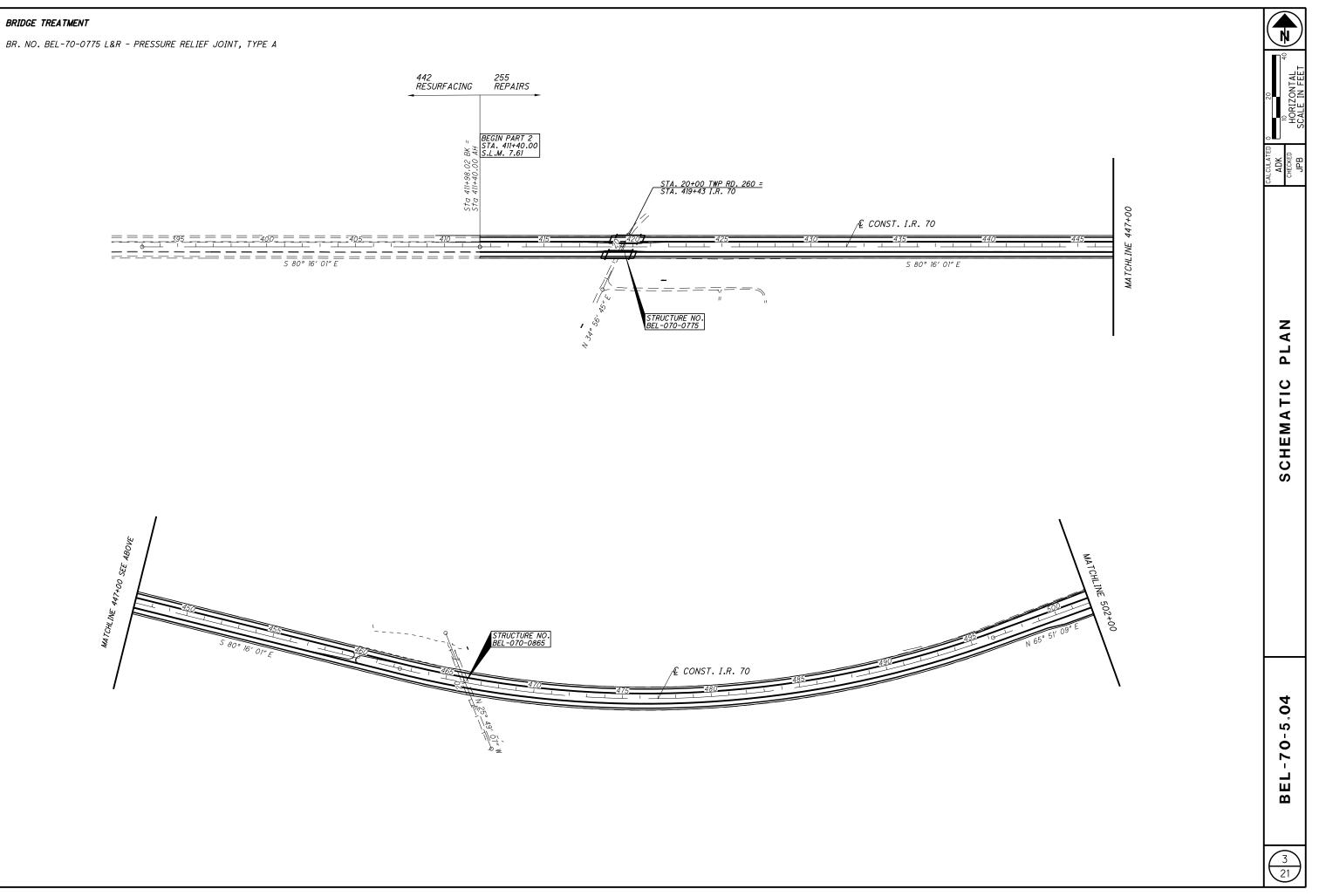
	DESIGN DESIGNATION (4.06-6.12)	DESIGN DESIGNATION (6.12 TO 6.13)	DESIGN DESIGNATION (6.13 TO 9.44)	DESIGN DESIGNATION (9.44 TO 9.81)
	CURRENT ADT (2020) 35,000 DESIGN ADT (2032) 44,000 DESIGN HOURLY VOLUME (2032) 4,000 DIRECTIONAL DISTRIBUTION 9% TRUCK (24 HOUR B&C) 36% DESIGN SPEED 70 MPH LEGAL SPEED 70 MPH DESIGN FUNCTIONAL CLASSIFICATION: URBAN FREEWAY AND EXPRESSWAY NHS PROJECT YES	CURRENT ADT (2020) 35,000 DESIGN ADT (2032) 42,000 DESIGN HOURLY VOLUME (2032) 4,200 DIRECTIONAL DISTRIBUTION 56% TRUCK (24 HOUR B&C) 34% DESIGN SPEED 70 MPH LEGAL SPEED 70 MPH DESIGN FUNCTIONAL CLASSIFICATION: URBAN FREEWAY AND EXPRESSWAY NHS PROJECT YES	CURRENT ADT (2020) 34,000 DESIGN ADT (2032) 38,500 DESIGN HOURLY VOLUME (2032) 3,500 DIRECTIONAL DISTRIBUTION 51% TRUCK (24 HOUR B&C) 28% DESIGN SPEED 70 MPH LEGAL SPEED 70 MPH DESIGN FUNCTIONAL CLASSIFICATION: URBAN FREEWAY AND EXPRESSWAY NHS PROJECT YES	CURRENT ADT (2020) 38,500 DESIGN ADT (2032) 41,000 DESIGN HOURLY VOLUME (2032) 4,900 DIRECTIONAL DISTRIBUTION 56% TRUCK (24 HOUR B&C) 33% DESIGN SPEED 70 MPH LEGAL SPEED 70 MPH DESIGN FUNCTIONAL CLASSIFICATION: URBAN FREEWAY AND EXPRESSWAY NHS PROJECT YES
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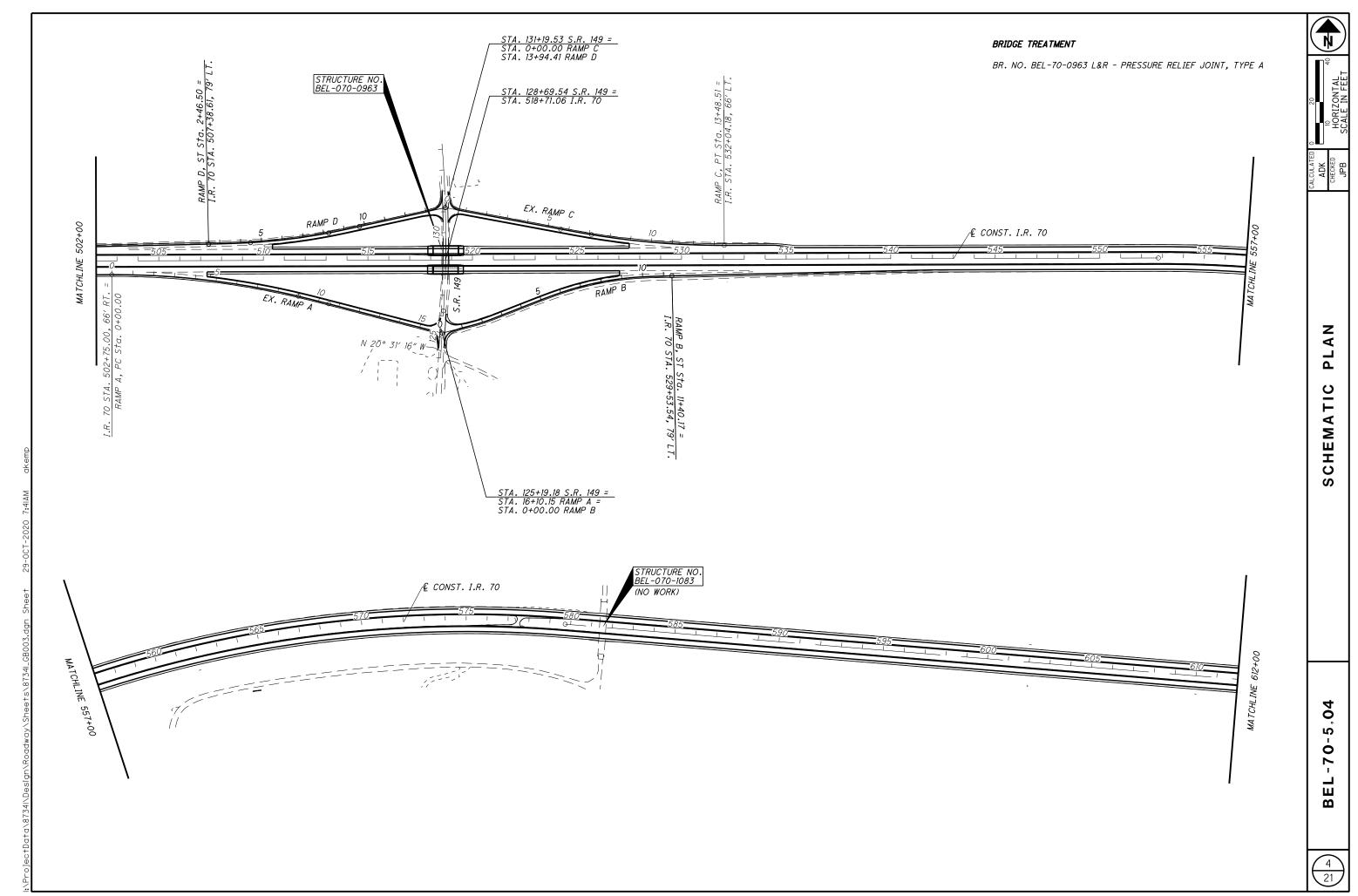




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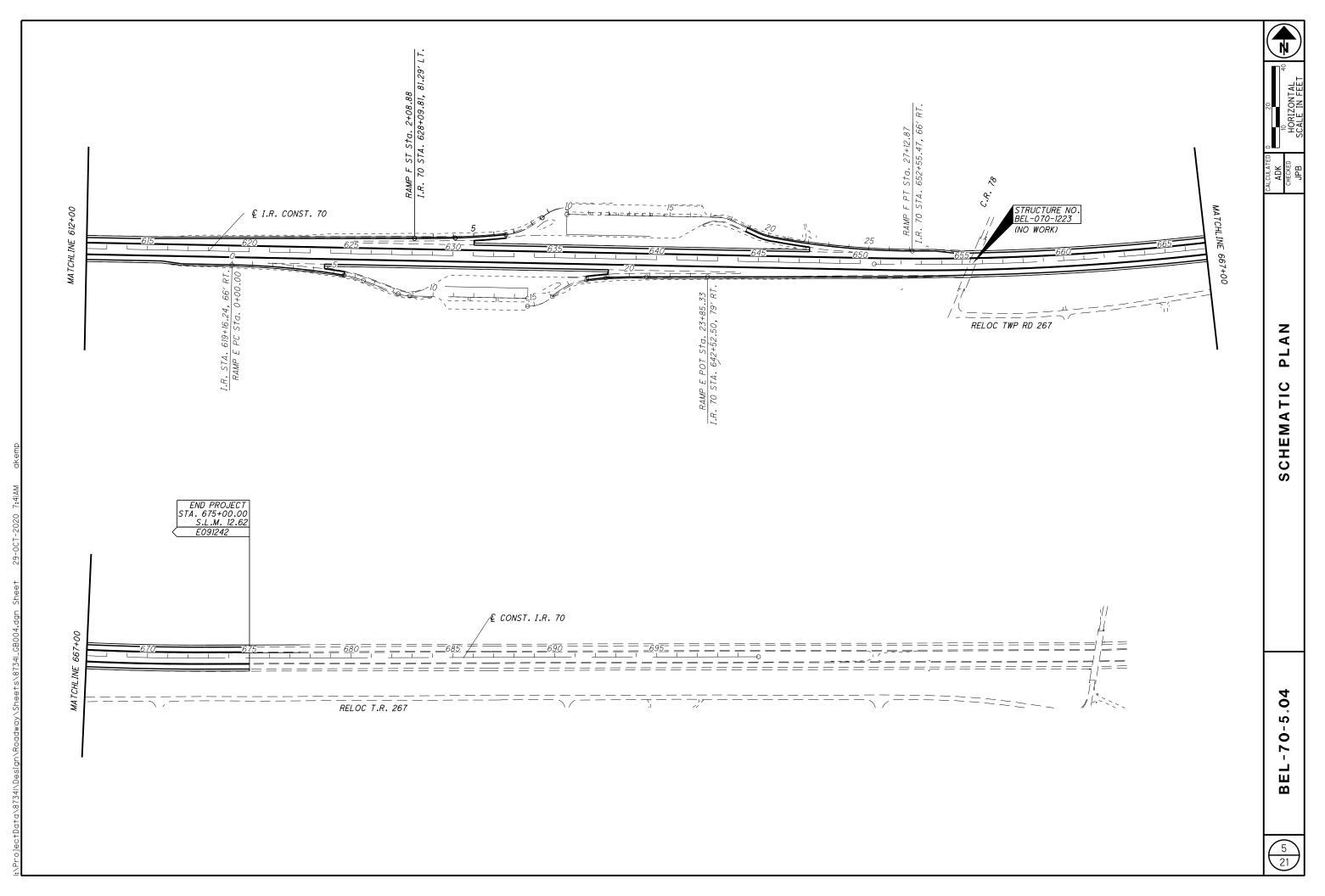


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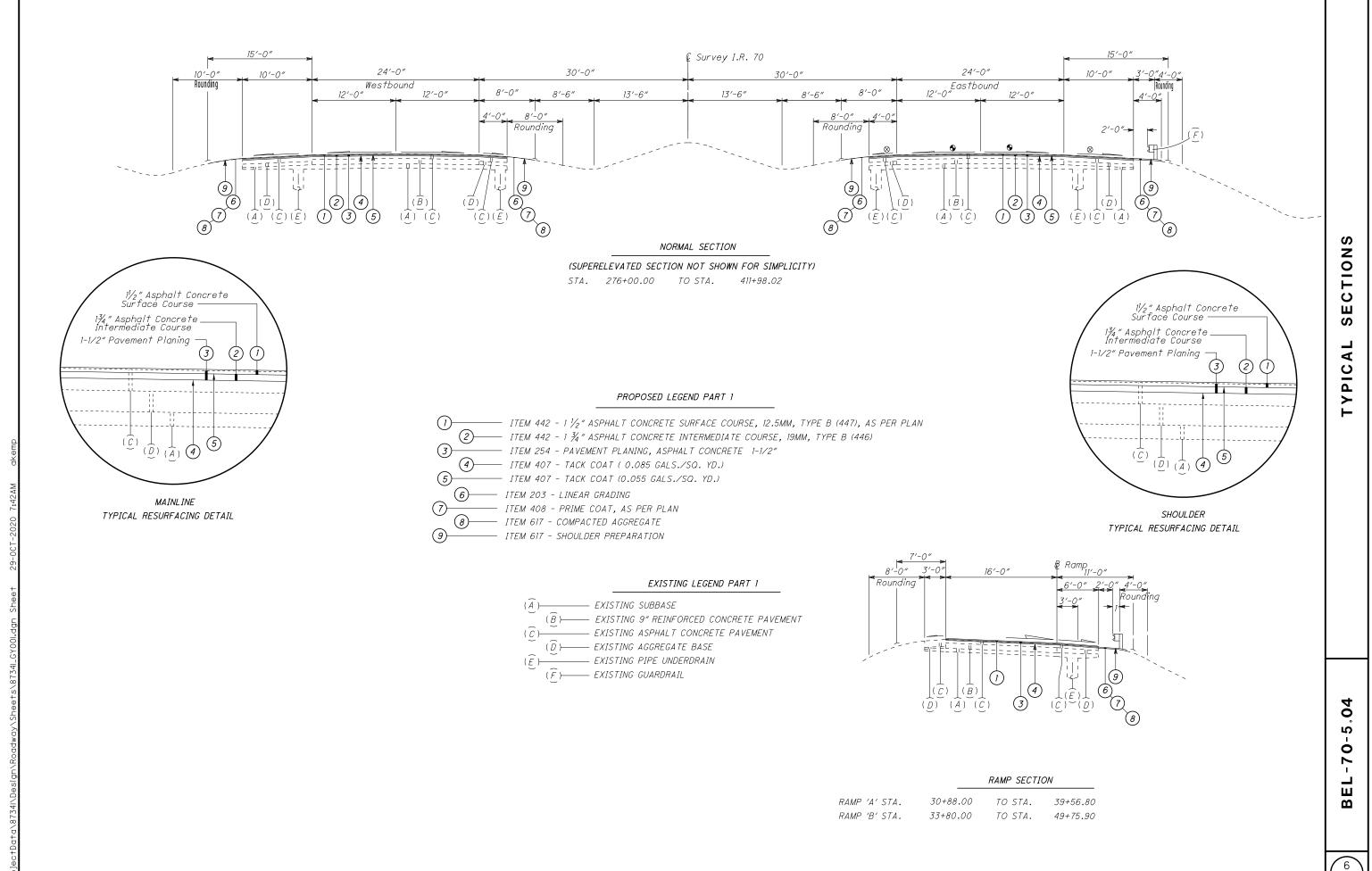
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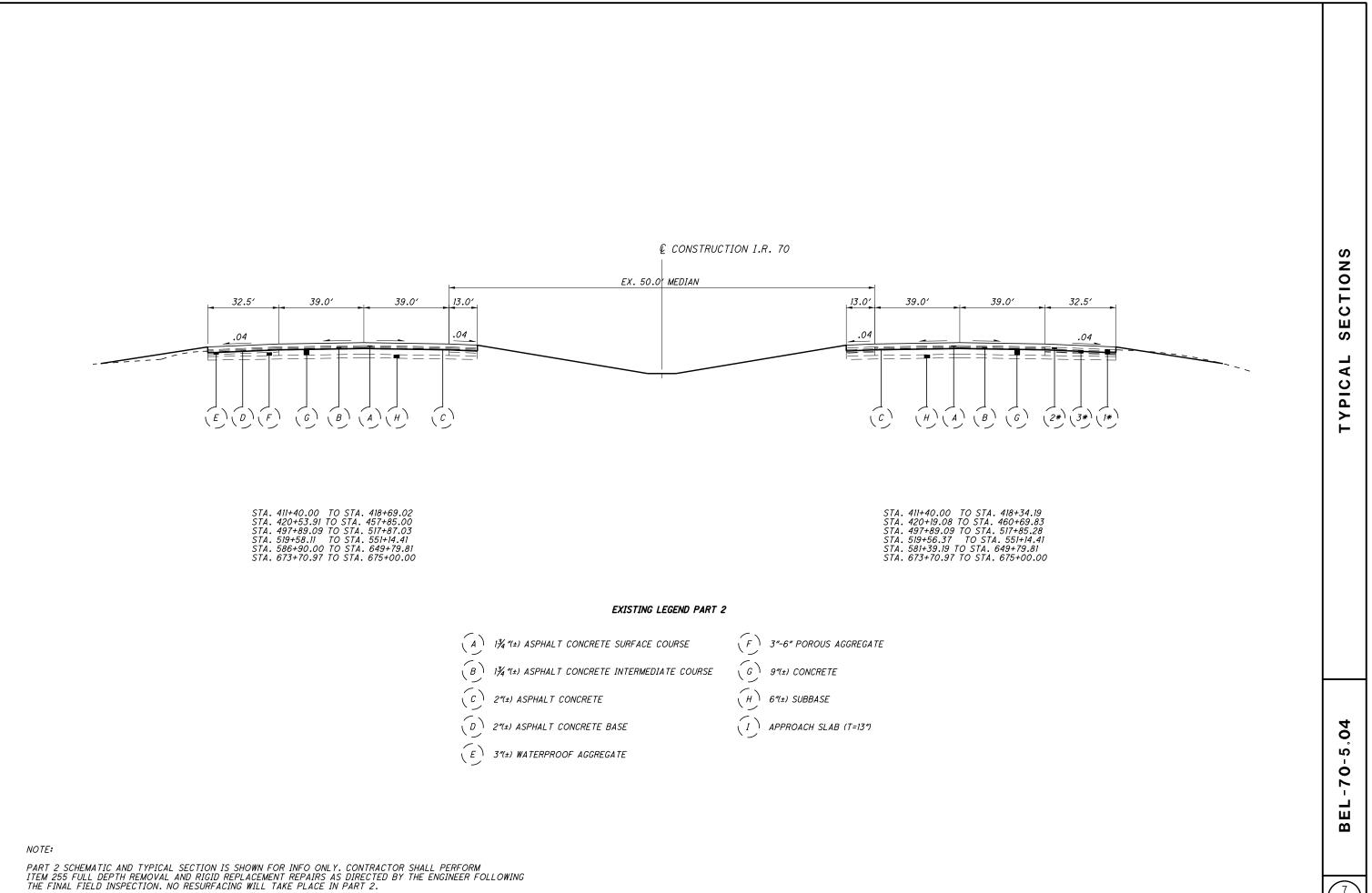


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PROFILE AND ALIGNMENT

PLACE THE PROPOSED PAVEMENT TO FOLLOW THE PROFILE AND ALIGNMENT OF THE EXISTING PAVEMENT. PLACE THE PROPOSED ASPHALT CONCRETE OVERLAY AS SHOWN ON THE TYPICAL SECTIONS.

ITEM 617 - SHOULDER PREPARATION

THIS ITEM OF WORK SHALL BE PERFORMED IN ACCORDANCE WITH CMS "ITEM 617 -RECONDITIONING SHOULDERS" WITH SPECIAL ATTENTION GIVEN TO SECTION 617.04. THE CONTRACTOR SHALL PREPARE THE SHOULDERS REASONABLY CLOSE IN CONFORMITY WITH THE DETAILS AND TYPICAL SECTIONS SHOWN IN THE PLANS, OR AS ESTABLISHED BY THE ENGINEER.

ITEM 617 - COMPACTED AGGREGATE

GRADED SHOULDERS SHALL BE RESHAPED AS PER THE REQUIREMENTS OF ITEM 617, COMPACTED AGGREGATE. GRINDINGS MAY BE USED IN LIEU OF ITEM 617, COMPACTED AGGREGATE. THE COST FOR STORING THE GRINDINGS ON THE PROJECT AND PLACING THE GRINDINGS SHALL ALSO BE INCLUDED IN THIS ITEM.

ITEM 408 - PRIME COAT, AS PER PLAN

THIS ITEM OF WORK SHALL BE PERFORMED IN ACCORDANCE WITH CMS "ITEM 408 -PRIME COAT." EXCEPT THE CONTRACTOR SHALL APPLY "MC-70" AT A RATE OF 0.4 GALLONS PER SQUARE YARD. OR AS DETERMINED BY THE ENGINEER. TO THE COMPLETED COMPACTED AGGREGATE SHOULDER, AS PER PLAN.

SHIELD

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THE CONTRACTOR SHALL PROVIDE A SHIELD TO PREVENT THE SPRAYING OR DRIFTING OF LIQUID BITUMINOUS MATERIAL ONTO THE EDGE OF THE PAVEMENT OR EDGELINE. THE CONTRACTOR SHALL ADHERE TO THE PROVISIONS SET FORTH IN CMS 107.10 CONCERNING THE PROTECTION AND RESTORATION OF ALL PUBLIC AND PRIVATE PROPERTY IMPACTED BY CONSTRUCTION OPERATIONS.

ITEM 621 - RAISED PAVEMENT MARKER REMOVED

EXISTING RAISED PAVMENT MARKERS SHALL BECOME THE PROPERTY OF THE CONTRACTOR FOR DISPOSAL OFF THE PROJECT. THE REQUIRMENT TO FILL THE DEPRESSIONS SHALL BE WAIVED.

ITEM 442 - ANTI-SEGREGATION EQUIPMENT

PROVIDE A MATERIAL TRANSFER VEHICLE IN ACCORDANCE WITH CMS 401.12 WHEN PLACING ASPHALT SURFACE AND INTERMEDIATE COURSES ON MAINLINE LANES AND ACCELERATION AND DECELERATION LANES.

THE FOLLOWING QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY:

ITEM 442 - ANTI-SEGREGATION EQUIPMENT 10,209 CU.YD.

EXISTING RUMBLE STRIPS

IF THE CONTRACTOR CHOOSES TO MOVE TRAFFIC ONTO THE OUTSIDE SHOULDER TO MAINTAIN TWO LANES OF TRAVEL, THE EXISTING RUMBLE STRIPS WILL HAVE TO BE REMOVED. THE AREA OF THE EXISTING RUMBLE STRIPS SHALL BE MILLED TO A DEPTH OF AT LEAST 2 INCHES: THE MILLED SURFACE AND THE SIDES SHALL BE COVERED WITH ODOT APPROVED AC LIQUID AND THEN FILLED WITH ASPHALT. PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A SHALL BE USED TO FILL THE RUMBLE STRIPS. PAYMENT FOR ALL WORK ASSOCIATED WITH MILLING, AC LIQUID, TRAFFIC CONTROL AND THE FILLING OF THE RUMBLE STRIPS SHALL BE CONSIDERED INCIDENTAL TO AND INCLUDED WITH ITEM 614 MAINTAINING TRAFFIC. AS PER PLAN.

ITEM 201 - CLEARING AND GRUBBING

ALTHOUGH THERE ARE NO TREES OR STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE LIMITS OF THE PROJECT, A LUMP SUM QUANTITY IS INCLUDED IN THE GENERAL SUMMARY FOR ITEM 201, CLEARING AND GRUBBING.

ALL PROVISIONS AS SET FORTH IN THE SPECIFICATIONS UNDER THIS ITEM ARE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 201. CLEARING AND GRUBBING.

ITEM 646 - EPOXY PAVEMENT MARKINGS

THE CONTRACTOR SHALL REPLACE THE EXISTING PAVEMENT MARKINGS WITHIN THE PROJECT LIMITS WITH NEW PAVEMENT MARKINGS AT THE SAME LOCATIONS AS PER CMS 641.06. SEE STANDARD DRAWING TC-71.10 FOR PAVEMENT MARKING DETAILS.

SURFACE COURSE COMPLETION REQUIREMENTS

ANY GIVEN LENGTH OF WORK ON WHICH RESURFACING OPERATIONS HAVE BEEN STARTED IN A CONSTRUCTION SEASON SHALL HAVE THE SURFACE COURSE PLACED THAT SAME SEASON.

PREVIOUS CONSTRUCTION PLANS

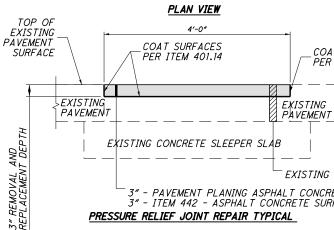
THE FOLLOWING PREVIOUS CONSTRUCTION PLANS, WHICH SHOW THE ORIGINAL ALIGNMENT AND PROFILE. ARE AVAILABLE FOR INSPECTION AT THE ODOT DISTRICT 11 OFFICE:

BEL-70-5.04, PID 80065 (2006) BEL-70-7.61, PID 76825 (2012)

THESE EXISTING PLANS CAN ALSO BE DOWNLOADED FROM THE FOLLWING FTP SITE: FTP://FTP.DOT.STATE.OH.US/PUB/CONTRACTS/ATTACH

ITEM 442 - ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE B (447), AS PER PLAN

THE CONTRACTOR SHALL FOLLOW THE SPECIFICATIONS OF CMS 703.05, EXCEPT DO NOT USE COARSE AGGREGATE FROM A SOURCE DESIGNATED "SR" OR "SRH" AS DEFINED BY THE OFFICE OF MATERIALS MANAGEMENT (OMM) IN ANY JOB MIX FORMULA (JMF) FOR THIS ITEM OF WORK.



ITEM SPECIAL - PRESSURE RELIEF JOINT, TYPE A

THE CONTRACTOR SHALL MILL AND FILL THE EXISTING PRESSURE RELIEF JOINTS AT THE RAILROAD BRIDGE WITH 3" OF ITEM 442 - ASPHALT CONCRETE SURFACE COURSE,12.5MM, TYPE B,(447) AS PER PLAN. CONSTRUCT THIS ITEM ACCORDING TO THE ABOVE DETAIL AND APPLICABLE PORTIONS OF STANDARD CONSTRUCTION DRAWING BP-2.3.

ESTIMATED QUANTITIES

PAYMENT SHALL BE PER LINEAR FOOT OF ITEM SPECIAL - PRESSURE RELIEF JOINT, TYPE A AND SHALL INCLUDE PLANING AND REMOVAL OF EXISTING PAVEMENT, ITEM 442, AND ALL LABOR, MATERIALS AND INCIDENTALS NEEDED TO CONSTRUCT THE JOINT AS SHOWN.

(PART 2)

ITEM SPECIAL - PRESSURE RELIEF JOINT, TYPE A - 546 FT TOTAL USE: 546 FT (01/IMS/PV)

UTILITIES

COORDINATION OF RESURFACING AND PLANING OPERATIONS

ENGINEER.

THE CONTRACTOR MUST BEGIN PAVING OPERATIONS NO LATER THAN 4 DAYS AFTER THE START OF THE PAVEMENT PLANING.

AGGREGATE.

THERE ARE NO UNDERGROUND UTILITIES SHOWN ON THIS PLAN. THE NATURE OF THE WORK REQUIRED BY THIS PROJECT WILL NOT AFFECT ANY KNOWN UNDERGROUND UTILITIES THAT EXIST UNDER OR ADJACENT TO THE WORK AREA.

ONCE THE PAVEMENT PLANING OPERATIONS HAVE COMMENCED. THE CONTRACTOR SHALL PLANE CONTINUOUSLY UNTIL ALL ELEMENTS OF WORK ASSOCIATED WITH THE PAVEMENT PLANING OPERATIONS ARE CONCLUDED. THE PAVEMENT PLANING OPERATIONS SHALL BE COMPLETED IN A TIMELY MANNER, OR AS DIRECTED BY THE

IF ASPHALT CONCRETE IS TO BE APPLIED DIRECTLY ONTO PORTLAND CEMENT, CONCRETE, OR BRICK PAVEMENT, THE CONTRACTOR SHALL TACK THE EXISTING PAVEMENT WITH RUBBERIZED ASPHALT EMULSION CONFORMING TO CMS 702.13.

ALL GRINDINGS SHALL BECOME THE PROPERTY OF THE CONTRACTOR EXCEPT FOR WHAT IS USED FOR SHOULDER MATERIAL INDICATED IN ITEM 617 - COMPACTED

EXISTING PRESSURE RELIEF JOINT ⁻ 3″ - PAVEMENT PLANING ASPHALT CONCRETE / 3″ - ITEM 442 - ASPHALT CONCRETE SURFACE COURSE, 12.5MM,TYPE B,(447) AS PER PLAN

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ITEM 614 - MAINTAINING TRAFFIC, AS PER PLAN

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THE CONTRACTOR SHALL MAINTAIN TRAFFIC AT ALL TIMES IN ACCORDANCE WITH THE REQUIREMENTS OF CMS ITEM 614, THESE MAINTENANCE OF TRAFFIC NOTES AND DETAILS, THE STANDARD CONSTRUCTION DRAWINGS, AND THE TRAFFIC CONTROL DETAILS DESCRIBED IN THESE PLANS.

THE MINIMUM LANE WIDTH FOR TRAFFIC CONTROL SHALL BE 11 FEET AT ALL TIMES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ORGANIZE HIS WORK IN SUCH A MANNER TO PROVIDE THE MOST SAFETY WITH THE LEAST INCONVENIENCE TO THE TRAVELING PUBLIC.

THE CONTRACTOR IS RESPONSIBLE FOR DESIGNING THE MAINTENANCE OF TRAFFIC SCHEME. THE CONTRACTOR SHALL SUBMIT, IN WRITING, THIS MAINTENANCE OF TRAFFIC SCHEME AND A SCHEDULE OF OPERATIONS TO THE ENGINEER AND RECEIVE APPROVAL BEFORE WORK IS STARTED ON THE PROJECT.

ANY OPEN PAVEMENT TRENCH OR DROPOFF SHALL BE ADEQUATELY MAINTAINED AND PROTECTED. THE PROTECTION USED SHALL MEET THE REQUIREMENTS OF STANDARD CONSTRUCTION DRAWING MT-101.90.

UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR BE PERMITTED TO HAVE WORK ZONES WHICH ALTERNATELY CLOSE BOTH THE PASSING AND TRAVEL LANE UNLESS THE DISTANCE BETWEEN THE LANE RESTRICTIONS EXCEEDS 2 MILES.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR SMOOTH AND ORDERLY FLOW OF TRAFFIC THROUGH THE PROJECT AREA 24 HOURS PER DAY FOR THE DURATION OF THE PROJECT. THIS CONSISTS OF NOTIFYING THE OHIO STATE PATROL AFTER ENCOUNTERING ANY ACCIDENTS OR DISABLED VEHICLES OR OBJECTS HINDERING THE FLOW OF TRAFFIC.

THE CONTRACTOR SHALL DESIGNATE TO THE ENGINEER A PERSON RESPONSIBLE FOR MAINTENANCE OF TRAFFIC CONTROL DURING NON-WORK HOURS WHO SHALL BE AVAILABLE WITHIN (30) MINUTES AFTER NOTIFICATION.

PAYMENT FOR PROVIDING WATCHMEN, FURNISHING, ERECTING, MAINTAINING AND REMOVING SIGNS, CONES, MARKERS, PORTABLE BARRIER, BARRIER REFLECTORS, OBJECT MARKERS, WORK ZONE IMPACT ATTENUATORS, SPECIAL LIGHTING, FLOODLIGHTING WORK ZONE PAVEMENT MARKINGS, WORK ZONE RAISED PAVEMENT MARKERS, ECT., SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 614 MAINTAINING TRAFFIC, AS PER PLAN.

UNLESS THE ENGINEER DEEMS IT PHYSICALLY IMPOSSIBLE, ALL CONSTRUCTION EQUIPMENT SHALL EXIT ALL WORK ZONES FROM THE DOWNSTREAM END OF THE WORK ZONE OR BY INTERCHANGE RAMPS. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR BE PERMITTED TO DIRECTLY TRANSPORT OR OPERATE ANY EQUIPMENT ACROSS THE OPEN LANES OF THE ROADWAY.

THE PLANING, AND RESURFACING OPERATIONS WILL PROCEED CONTINUOUSLY A MINIMUM OF FIVE (5) DAYS PER WEEK, WEATHER PERMITTING. NO WORK SHALL BE PERFORMED AND ALL EXISTING LANES SHALL BE OPEN TO TRAFFIC DURING THE FOLLOWING DESIGNATED HOLIDAYS OR EVENTS:

MEMORIAL DAY, FOURTH OF JULY, LABOR DAY

THE PERIOD OF TIME THAT THE LANES ARE TO BE OPEN DEPENDS ON THE DAY OF THE WEEK ON WHICH THE HOLIDAY OR EVENT FALLS. THE FOLLOWING SCHEDULE SHALL BE USED TO DETERMINE THIS PERIOD:

DAY OF THE WEEK	TIME ALL LANES MUST BE OPEN TO TRAFFIC
SUNDA Y	12:00N FRIDAY THROUGH 6:00 AM MONDAY
MONDA Y	12:00N FRIDAY THROUGH 6:00 AM TUESDAY
TUESDAY	12:00N MONDAY THROUGH 6:00 AM WEDNESDAY
WEDNESDAY	12:00N TUESDAY THROUGH 6:00 AM THURSDAY
THURSDAY	12:00N WEDNESDAY THROUGH 6:00 AM FRIDAY
THURSDAY (THANKSGIVING ONLY)	6:00 AM WEDNESDAY THROUGH 6:00 AM MONDAY
FRIDAY	12:00N THURSDAY THROUGH 6:00 AM MONDAY
SA TURDA Y	12:00N FRIDAY THROUGH 6:00 AM MONDAY

SHOULD THE CONTRACTOR FAIL TO MEET ANY OF THESE REQUIREMENTS, THE CONTRACTOR SHALL BE ASSESSED A DISINCENTIVE PER THE LANE VALUE CONTRACT (PN127)

ITEM 614 - MAINTAINING TRAFFIC, AS PER PLAN (CONTINUED)

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

WHEN RAISED PAVEMENT MARKERS ARE TO BE INSTALLED, THE REQUIRED LANE CLOSURE SHALL REMAIN IN EFFECT UNTIL THE EPOXY IS DRY AND ALL FOREIGN MATTER OR DEBRIS CREATED BY THE INSTALLATION OF THE RPM CASTING IS REMOVED FROM THE ROADWAY.

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH CMS 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS. AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. PAYMENT FOR ALL LABOR. EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC, AS PER PLAN, UNLESS SEPARATELY ITEMIZED IN THE PLAN.

DESCRIPTION OF CRITICAL LANE/RAMP TO BE MAINTAINED	RESTRICTED TIME PERIOD	TIME UNIT	DISINCENTIVE \$ PER TIME UNIT
ALL LANES/RAMPS OF BEL IR 70 FROM SLM 5.04 TO SLM 12.62	7:00 PM - 6:00 AM	EACH HOUR	\$ 12,600

WORK HOUR RESTRICTIONS

THE CONTRACTOR SHALL COMPLETE ALL OPERATIONS THAT IMPEDE TRAFFIC ON I.R. TO BETWEEN THE HOURS OF 7:00 P.M. TO 6:00 A.M. FROM SUNDAY P.M. TO FRIDAY A.M. (I.E. NIGHT PAVING). TIME ALLOTED FOR SETUP AND REMOVAL OF M.O.T. SHALL BE PERFORMED IN THE STATED TIME PERIOD.

ANY WORK PERFORMED PRIOR TO MAY 31 AND AND AFTER SEPTEMBER 1 SHALL HAVE THE SUNDAY START TIME MOVED TO 8:00 P.M.

NOTIFICATION OF TRAFFIC RESTRICTIONS

THROUGHOUT THE DURATION OF THE PROJECT, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IN WRITING OF ALL TRAFFIC RESTRICTIONS AND UPCOMING MAINTENANCE OF TRAFFIC CHANGES. THE CONTRACTOR SHALL ENSURE THE WRITTEN NOTIFICATION IS SUBMITTED IN A TIMELY MANNER TO ALLOW THE PROJECT ENGINEER TO MEET THE REQUIRED TIME FRAMES SET FORTH IN THE TABLE BELOW TO INFORM THE SPECIAL HAULING PERMITS SECTION (HAULING.PERMITS@DOT.OHIO.GOV) AND THE DISTRICT PUBLIC INFORMATION OFFICE (PIO). THIS NOTIFICATION SHALL BE RECEIVED BY THE PROJECT ENGINEER PRIOR TO THE PHYSICAL SETUP OF ANY APPLICABLE SIGNS OR MESSAGE BOARDS.

INFORMATION SHOULD INCLUDE, BUT IS NOT LIMITED TO, ALL CONSTRUCTION ACTIVITIES THAT IMPACT OR INTERFERE WITH TRAFFIC AND SHALL LIST THE SPECIFIC LOCATION, TYPE OF WORK, ROAD STATUS, DATE AND TIME OF RESTRICTION. DURATION OF RESTRICTION, NUMBER OF LANES MAINTAINED, NUMBER OF LANES CLOSED, MINIMUM VERTICAL CLEARANCE, MINIMUM WIDTH OF DRIVABLE PAVEMENT, DETOUR ROUTES, IF APPLICABLE, AND ANY OTHER INFORMATION REQUESTED BY THE PROJECT ENGINEER.

	NOTIFICATION T	IME TABLE					
ITEM	DURATION OF CLOSURE	NOTICE DUE TO PERMITS & PIO					
RAMP & ROAD	>= 2 WEEKS	21 CALENDAR DAYS PRIOR TO CLOSURI					
CLOSURES	> 12 HOURS & < 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURI					
LLUSURES	< 12 HOURS	4 BUSINESS DAYS PRIOR TO CLOSURE					
LANE CLOSURES &	>= 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURI					
RESTRICTIONS	< 2 WEEKS	5 BUSINESS DAYS PRIOR TO CLOSURE					
START OF							
CONSTRUCTION &	N/A	14 CALENDAR DAYS PRIOR TO					
TRAFFIC PATTERN	NZ A	IMPLEMENTATION					
CHANGES							

ANY UNFORESEEN CONDITIONS NOT SPECIFIED IN THE PLANS REQUIRING TRAFFIC RESTRICTIONS SHALL ALSO BE REPORTED TO THE PROJECT ENGINEER USING THE NOTIFICATION TIME TABLE.

CONTRACTOR'S EQUIPMENT - OPERATION AND STORAGE

IN ADDITION TO THE REQUIREMENTS OF SECTION 614.03 OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS THE FOLLOWING SHALL APPLY. THE CONTRACTOR'S EQUIPMENT SHALL BE OPERATED IN THE DIRECTION OF TRAFFIC WHERE PRACTICAL. A FLAGGER SHALL BE USED WHERE THE CONTRACTOR'S EQUIPMENT MUST MERGE WITH THE TRAFFIC STREAM. THE CONTRACTOR'S VEHICLES AND EQUIPMENT SHALL BE EQUIPPED WITH AT LEAST ONE AMBER FLASHING LIGHT.

EQUIPMENT MAY BE PARKED IN AREAS ALONG THE HIGHWAY, THIRTY FEET (30') FROM THE EDGE OF TRAVELED HIGHWAY UNLESS BEHIND GUARDRAIL, WHEN VARIOUS OPERATIONS ARE SCHEDULED TO CONTINUE THE NEXT WORKDAY. ON WEEKENDS OR AT OTHER TIMES OF SUSPENSION OF WORK, THE EQUIPMENT SHALL BE STORED AT A STORAGE AREA REMOVED FROM THE STATE ROUTE RIGHT OF WAY. NO EQUIPMENT SHALL BE PARKED IN THE MEDIAN OF THE HIGHWAY. ADEQUATE BARRICADES AND LIGHT SHALL BE PLACED ON THE PAVEMENT SIDE OF THE EQUIPMENT TO IDENTIFY THE LIMITS OF THE EQUIPMENT. ALL OTHER EQUIPMENT. INCLUDING PRIVATE VEHICLES, SHALL BE STORED AT THE APPROVED CONTRACTOR'S STORAGE AREA.

WORK ZONE PAVEMENT MARKINGS AND SIGNS

AND 614.11.

MARKINGS.

ITEM 614 - WORK ZONE PAVEMENT MARKINIGS											
# OF APPLICATIONS	PART	WZ EDGE LINE III	CHANNELIZING LINE, 8°, TYPE III	WZ LANE LINE III							
3 3	1	7.74									
3	1			7.74							
3	1	7.74									
3	1	0.93									
3	1		1395.00								
3 3 3 3 3	1	0.45									
3	1										
	1	7.74									
3	1			7.74							
3	1	7.74									
3	1	0.39									
3	1		1500.00								
3	1	0.39									
		33.12	2,895.00	15.48							

WORK ZONE RAISED PAVEMENT MARKERS CANNOT BE USED TO SIMULATE (REPLACE) ANY TYPE OF WORK ZONE PAVEMENT MARKING.

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR WORK ZONE SIGNS:

ITEM 614, WORK ZONE MARKING SIGN (W8-11-48 OR W8-H12a-48) - - - 16 EACH

MOVEMENT OF DRUMS

THE CONTRACTOR SHALL BE REQUIRED TO INSTALL WORK ZONE MARKINGS AND SIGNS AT LOCATIONS IDENTIFIED BY THE ENGINEER PER THE REQUIREMENTS OF CMS 614.04

WORK ZONE PAVEMENT MARKINGS SHALL BE 642 PAINT.

PRIOR TO PLACEMENT OF ANY WORK ZONE PAVEMENT MARKINGS, THE CONTRACTOR SHALL COMPLETELY OBLITERATE, AS PER 641.10, ALL EXISTING PAVEMENT MARKINGS THAT WOULD CREATE CONFUSION OR CONFLICT WITH THE WORK ZONE PAVEMENT

THE ROW OF DRUMS ALONG A CLOSED LANE SHALL BE MOVED OUT OF THE OPEN LANE ONTO THE NEW PAVEMENT AS SOON AS PAVING OPERATIONS PERMIT.

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ITEM 614 - LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE DURING CONSTRUCTION OPERATIONS

WHEN LAW ENFORCEMENT OFFICERS (LEOS) ARE USED AS A SPEED CONTROL MEASURE IN STATIONARY WORK ZONES, THEY SHALL BE USED AS SHOWN IN THESE PLANS. LEOS CAN BE USED IN THE FORM OF: STATIONARY PATROL CAR, CIRCULATING PATROL CAR, AND/OR AIR ENFORCEMENT IN COMBINATION WITH GROUND PATROL CAR

USE OF LAW ENFORCEMENT OFFICERS (LEOS) BY CONTRACTORS OTHER THAN THE USES SPECIFIED BELOW WILL NOT BE PERMITTED AT PROJECT COST. LEOS SHOULD NOT BE USED WHERE THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (OMUTCD) INTENDS THAT FLAGGERS BE USED.

IN ADDITION TO THE REQUIREMENTS OF CMS 614 AND THE OMUTCD, A UNIFORMED LEO WITH AN OFFICIAL PATROL CAR (CAR WITH TOP-MOUNTED EMERGENCY FLASHING LIGHTS AND COMPLETE MARKINGS OF THE APPROPRIATE LAW ENFORCEMENT AGENCY) SHALL BE PROVIDED FOR THE FOLLOWING TRAFFIC CONTROL TASKS:

FOR LANE CLOSURES:

DURING THE ENTIRE ADVANCE PREPARATION AND CLOSURE SEQUENCE WHERE COMPLETE BLOCKAGE OF TRAFFIC IS REQUIRED.

DURING INITIAL SET-UP PERIODS, TEAR DOWN PERIODS, SUBSTANTIAL SHIFTS OF A CLOSURE POINT, SHORT DURATION CLOSURE OF A MULTI-LANE DIVIDED HIGHWAY AS INDICATED ON THE PLAN INSERT SHEET OR WHEN NEW LANE CLOSURE ARRANGEMENTS ARE INITIATED FOR LONG-TERM LANE CLOSURES/SHIFTS (FOR THE FIRST AND LAST DAY OF MAJOR CHANGES IN TRAFFIC CONTROL SETUP).

WHEN CONSTRUCTION VEHICLES ARE ENTERING/EXITING THE ZONE DIRECTLY FROM/INTO AN OPEN LANE OF TRAFFIC. IF A LANE HAS BEEN CLOSED TO PROVIDE AN ACCELERATION/DECELERATION LANE FOR THE VEHICLE, THE LEO WILL NOT BE REQUIRED.

IN GENERAL, LEOS SHOULD BE POSITIONED AT THE POINT OF LANE RESTRICTION OR ROAD CLOSURE AND TO MANUALLY CONTROL TRAFFIC MOVEMENTS THROUGH INTERSECTIONS IN WORK ZONES.

LEOS SHOULD NOT FORGO THEIR TRAFFIC CONTROL RESPONSIBILITIES TO APPREHEND MOTORISTS FOR ROUTINE TRAFFIC VIOLATIONS. HOWEVER, IF A MOTORIST'S ACTIONS ARE CONSIDERED TO BE RECKLESS, THEN PURSUIT OF THE MOTORIST IS APPROPRIATE.

THE LEOS WORK AT THE DIRECTION OF THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR SECURING THE SERVICES OF THE LEOS WITH THE APPROPRIATE AGENCIES AND COMMUNICATING THE INTENTIONS OF THE PLANS WITH RESPECT TO DUTIES OF THE LEOS. THE ENGINEER SHALL HAVE FINAL CONTROL OVER THE LEO'S DUTIES AND PLACEMENT, AND WILL RESOLVE ANY ISSUES THAT MAY ARISE BETWEEN THE TWO PARTIES.

THE LEO SHALL REPORT IN TO THE CONTRACTOR PRIOR TO THE START OF THE SHIFT, IN ORDER TO RECEIVE INSTRUCTIONS REGARDING SPECIFIC WORK ASSIGNMENTS DURING HIS/HER SHIFT. THE LEO IS EXPECTED TO STAY AT THE PROJECT SITE FOR THE ENTIRE DURATION OF HIS/HER SHIFT. THE LEO SHALL REPORT TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT. SHOULD IT BE NECESSARY TO LEAVE THE PROJECT SITE. THE LEO SHALL NOTIFY THE ENGINEER. THE CONTRACTOR SHALL PROVIDE THE LEO WITH A TWO-WAY COMMUNICATION DEVICE WHICH SHALL BE RETURNED TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT.

LEOS (WITH PATROL CAR) REQUIRED BY THE TRAFFIC MAINTENANCE TASKS ABOVE SHALL BE PAID FOR ON A UNIT PRICE (HOURLY) BASIS UNDER ITEM 614, LAW **ENFORCEMENT**

OFFICER (WITH PATROL CAR) FOR ASSISTANCE. THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY.

ITEM 614 - LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE--- 200 HOURS (01/IMS/PV)

ITEM 614 - LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE DURING CONSTRUCTION OPERATIONS (CONTINUED)

THE HOURS PAID SHALL INCLUDE MINIMUM SHOW-UP TIME REQUIRED BY THE LAW ENFORCEMENT AGENCY INVOLVED.

ANY ADDITIONAL COSTS (ADMINISTRATIVE OR OTHERWISE) INCURRED BY THE CONTRACTOR TO OBTAIN THE SERVICES OF AN LEO ARE INCLUDED WITH THE BID UNIT PRICE FOR ITEM 614 - LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE.

WORK ZONE INCREASED PENALTIES SIGN (R11-H5A)

R11-H5A-48 SIGNS SHALL BE FURNISHED, ERECTED, AND MAINTAINED IN GOOD CONDITION AND/OR REPLACED AS NECESSARY AND SUBSEQUENTLY REMOVED BY THE CONTRACTOR. SIGNS SHALL BE MOUNTED AT THE APPROPRIATE OFFSETS AND ELEVATIONS AS PRESCRIBED BY THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. THEY SHALL BE MAINTAINED ON SUPPORTS MEETING CURRENT SAFETY CRITERIA.

THE SIGNS MAY BE ERECTED OR UNCOVERED NO MORE THAN FOUR HOURS BEFORE THE ACTUAL START OF WORK. THE SIGNS SHALL BE REMOVED OR COVERED NO LATER THAN FOUR HOURS FOLLOWING RESTORATION OF ALL LANES TO TRAFFIC WITH NO RESTRICTIONS. OR SOONER AS DIRECTED BY THE ENGINEER. TEMPORARY SIGN COVERING AND UNCOVERING DUE TO TEMPORARY LANE RESTORATIONS SHALL BE GUIDED BY THE FOUR-HOUR LIMITATIONS STATED ABOVE. SUCH LANE RESTORATIONS SHOULD BE EXPECTED TO REMAIN IN EFFECT FOR 30 OR MORE CONSECUTIVE CALENDAR DAYS, SUCH AS DURING WINTER SHUTDOWNS.

THE SIGNS ON THE MAINLINE SHALL BE DUAL MOUNTED UNLESS NOT PHYSICALLY POSSIBLE. THE FIRST SIGN SHALL BE PLACED BETWEEN THE ROAD WORK AHEAD (W20-I)SIGN AND THE NEXT SIGN IN THE SEQUENCE. SIGNS SHALL BE ERECTED ON EACH ENTRANCE RAMP AND EVERY 2 MILES THROUGH THE CONSTRUCTION WORK LIMITS. SIGNS ON THE MAINLINE SHALL BE R11-H5A-48. SIGNS USED ON THE RAMPS SHALL BE RII-H5A-24. RII-H5A-24 SIGNS MAY BE USED IN THE MEDIAN IN LIEU OF R11-H5A-48 SIGNS IF IT IS NOT PHYSICALLY POSSIBLE TO PROVIDE R11-H5A-48 SIGNS IN THE MEDIAN.

THE RII-H5A-48 SIGNS SHALL BE MOUNTED ON 2 NO. 3 POSTS WHEN LOCATED WITHIN CLEAR ZONES.

THE CONTRACTOR MAY USE SIGNS AND SUPPORTS IN USED, BUT GOOD, CONDITION PROVIDED THE SIGNS MEET CURRENT ODOT SPECIFICATIONS. SIGN FACES SHALL BE RETROREFLECTORIZED WITH TYPE G SHEETING COMPLYING WITH THE REQUIREMENTS OF C&MS 730.19.

WORK ZONE INCREASED PENALTIES SIGNS AND SUPPORTS WILL BE MEASURED AS THE NUMBER OF SIGN INSTALLATIONS, INCLUDING THE SIGN AND NECESSARY SUPPORTS. IF A SIGN AND SUPPORT COMBINATION IS REMOVED AND RE-ERECTED AT ANOTHER LOCATION AS DIRECTED BY THE ENGINEER, IT SHALL BE CONSIDERED ANOTHER UNIT.

PAYMENT FOR ACCEPTED QUANTITIES, COMPLETE, IN PLACE WILL BE MADE AT THE CONTRACT UNIT PRICE. PAYMENT SHALL BE FULL COMPENSATION FOR ALL MATERIALS, LABOR, INCIDENTALS AND EQUIPMENT FOR FURNISHING, ERECTING, MAINTAINING, COVERING DURING SUSPENSION OF WORK, AND REMOVAL OF THE SIGN AND SUPPORT.

ITEM 614 - WORK ZONE INCREASED PENALTIES SIGN ------16 EACH

FLOODLIGHTING

FLOODLIGHTING OF THE WORK SITE FOR OPERATIONS CONDUCTED DURING NIGHT TIME PERIODS SHALL BE ACCOMPLISHED SO THAT THE LIGHTS DO NOT CAUSE GLARE TO THE DRIVERS ON THE ROADWAY. TO ENSURE THE ADEQUACY OF THE FLOODLIGHT PLACEMENT, THE CONTRACTOR AND THE ENGINEER SHALL DRIVE THROUGHOUT THE WORKSITE EACH NIGHT WHEN THE LIGHTING IS IN PLACE AND OPERATIVE PRIOR TO COMMENCING ANY WORK. IF GLARE IS DETECTED, THE LIGHT PLACEMENT AND SHIELDING SHALL BE ADJUSTED TO THE SATISFACTION OF THE ENGINEER BEFORE WORK PROCEEDS. PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC, AS PER PLAN.

ARE MET AS DESCRIBED BELOW:

REVISION NUMBER	COUNTY & ROUTE	DIRECTION
WZ-60619	BEL-70	E.B. & W.B.

POTENTIAL WZSZ LOCATIONS SHALL HAVE AN ORIGINAL (PRE-CONSTRUCTION) POSTED SPEED LIMIT OF >=55 MPH, A QUALIFYING WORK ZONE CONDITION OF AT LEAST 0.5 MILE IN LENGTH. AN EXPECTED WORK DURATION OF AT LEAST THREE HOURS. AND A WORK ZONE CONDITION IN PLACE THAT REDUCES THE EXISTING FUNCTIONALITY OF THE TRAVEL LANES OR SHOULDERS (I.E., LANE CLOSURE, LANE SHIFT, CROSSOVER, CONTRAFLOW AND/OR SHOULDER CLOSURE). THE LENGTH OF THE WORK ZONE CONDITION IS MEASURED FROM THE BEGINNING OF THE TAPER FOR THE SUBJECT WORK ZONE CONDITION IMPACTING THE TRAVEL LANES AND/OR SHOULDER TO THE END OF THE DOWNSTREAM TAPER, WHERE DRIVERS ARE RETURNED TO TYPICAL ALIGNMENT. AN EXPECTED WORK DURATION OF AT LEAST THREE HOURS IS REQUIRED TO BALANCE THE ADDITIONAL EXPOSURE CREATED BY INSTALLING AND REMOVING WZSZ SIGNING WITH THE TIME NEEDED TO COMPLETE THE WORK.

IF THE WORK ZONE MEETS THESE MINIMUM CRITERIA. IT SHALL BE ANALYZED FURTHER USING TABLE 1 BELOW TO DETERMINE IF AND WHEN IT QUALIFIES FOR A SPEED LIMIT REDUCTION. DEPENDING ON THE ORIGINAL POSTED SPEED LIMIT, THE TYPE OF TEMPORARY TRAFFIC CONTROL USED. AND WHETHER OR NOT WORKERS ARE PRESENT. A WARRANTED WZSZ WILL VARY IN THE APPROVED SPEED LIMIT TO BE POSTED OVER TIMF.

C&MS ITEM 614, PARAGRAPH 614.02(B), INDICATES THAT TWO DIRECTIONS OF A DIVIDIED HIGHWAY ARE CONSIDERED SEPARATE HIGHWAY SECTIONS. THEREFORE, IF THE WORK ON A MULTI-LANE DIVIDED HIGHWAY IS LIMITED TO ONLY ONE DIRECTION. A SPEED LIMIT REDUCTION IN THE DIRECTION OF THE WORK DOES NOT AUTOMATICALLY CONSTITUTE A SPEED LIMIT REDUCTION IN THE OPPOSITE DIRECTION. EACH DIRECTION SHALL BE ANALYZED INDEPENDENTLY FROM EACH OTHER.

ALL WZSZS FLUCTUATE BETWEEN TWO APPROVED REDUCED SPEED LIMITS OR BETWEEN AN APPROVED REDUCED SPEED LIMIT AND THE ORIGINAL POSTED SPEED LIMIT. ONLY ONE OF TWO SIGNING STRATEGIES SHALL BE USED TO IMPLEMENT A WZSZ.

WZSZS USING DSL SIGN ASSEMBLIES SHALL BE IN ACCORDANCE WITH THIS NOTE, APPROVED LIST, SUPPLEMENTAL SPECIFICATION (SS) 808 AND 908, AND TRAFFIC SCD MT-104.10.

WHEN LOOKING UP THE WARRANTED WORK ZONE SPEED LIMITS, ALWAYS USE THE ORIGINAL, PRE-CONSTRUCTION, POSTED SPEED LIMIT. DO NOT USE A PRIOR OR CURRENT WORK ZONE SPEED LIMIT AS A LOOK UP VALUE IN THE TABLE. POSITIVE PROTECTION IS GENERALLY REGARDED AS PORTABLE BARRIER OR OTHER RIGID BARRIER IN USE ALONG THE WORK AREA WITHIN THE SUBJECT WARRANTED WORK ZONE CONDITION. WITHOUT POSITIVE PROTECTION IS GENERALLY REGARDED AS USING DRUMS, CONES, SHADOW VEHICLE, ETC., ALONG THE WORK AREA WITHIN THE SUBJECT WARRANTED WORK ZONE CONDITION. WORKERS ARE CONSIDERED AS BEING PRESENT WHEN ON-SITE. WORKING WITHIN THE SUBJECT WARRANTED WORK ZONE CONDITION. WHEN THE WORK ZONE CONDITION REDUCING THE EXISTING FUNCTIONALITY OF THE TRAVEL LANES OR SHOULDERS IS REMOVED, THE SPEED LIMIT DISPLAYED SHALL RETURN TO THE ORIGINAL POSTED SPEED LIMIT.

TABLE 1: WARRANTED WORK ZONE SPEED LIMITS (MPH) FOR WORK ZONES ON HIGH-SPEED (>=55 MPH) MULTI-LANE HIGHWAYS

ORIGINAL	WITH POSITIV	E PROTECTION	WITHOUT POSIT	TIVE PROTECTION
POSTED	WORKERS	WORKERS	WORKERS	WORKERS
SPEED LIMIT	PRESENT	NOT PRESENT	PRESENT	NOT PRESENT
70	60	65	55	65
65	55	60	50	60
60	55	60	50	60
55	50	55	45	55

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY:

ITEM 614 - DIGITAL SPEED LIMIT (DSL) SIGN ASSEMBLY [ASSUMING 23 DSL SIGN ASSEMBLIES FOR 3 MONTHS] - - - 69 SIGN MONTH

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ITEM 614 - WORK ZONE SPEED ZONES (WZSZS)

THE FOLLOWING WORK ZONE SPEED ZONE (WZSZ) SPEED LIMIT REVISION(S) HAVE BEEN APPROVED FOR USE ON THIS PROJECT WHEN WORK ZONE CONDITIONS AND FACTORS

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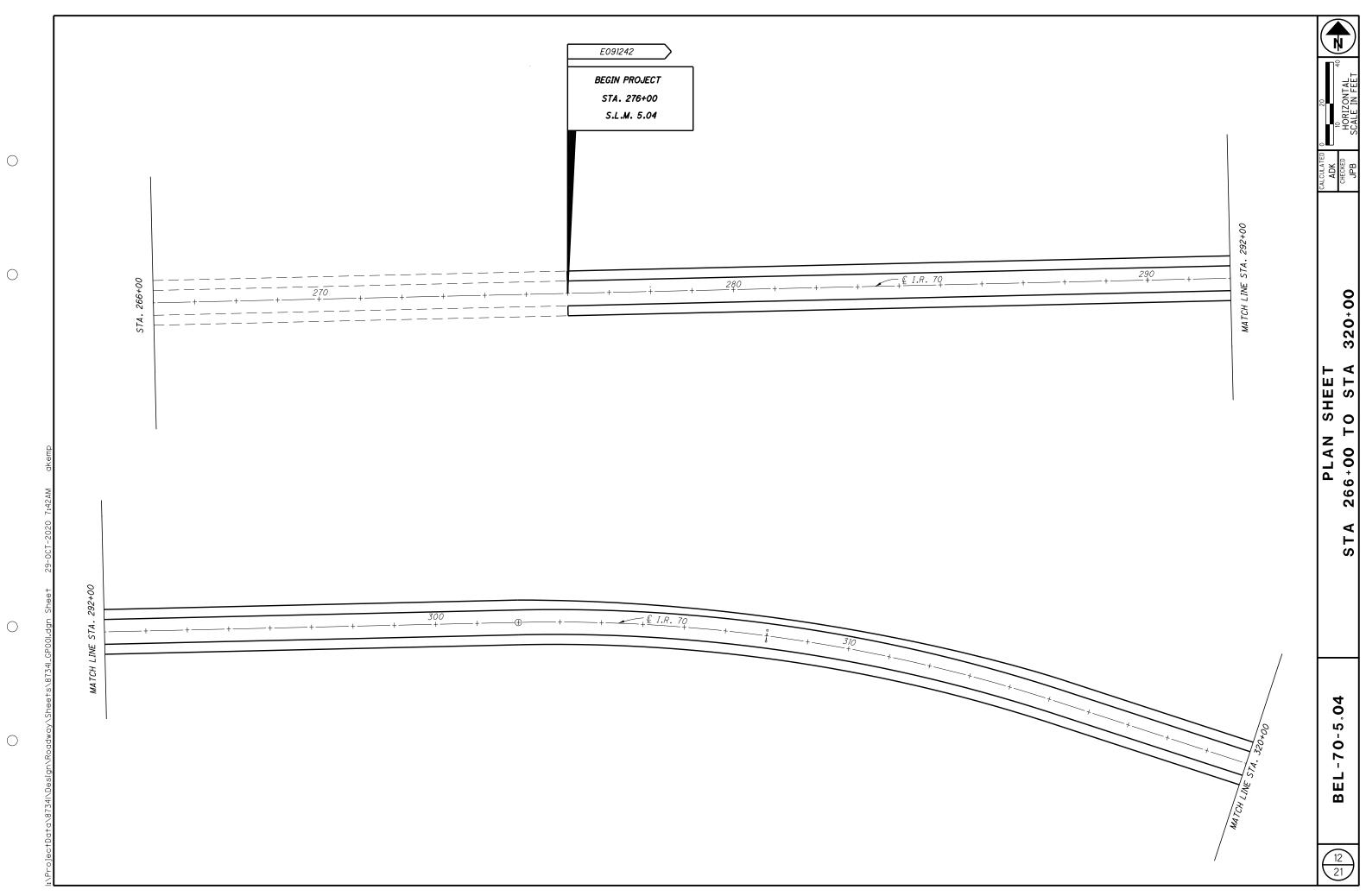
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8	9	10	16	17	18	19	20			01/IMS/PV			EXT	TOTAL		
										10		201	11000	10		
			653	216						LS 869		201 202	11000 23500	LS 869	SY	CLEARING AND GRUBBING WEARING COURSE REMOVED
			000	9.98	1					10.98		202	60500	10.98	MILE	LINEAR GRADING
										1,000		832	30000	1,000	EACH	EROSION CONTROL
			71.014	40,000	7 710					110,074		25.4	01000	110 074	CY.	
			71,814	40,808	7,312	1,050				119,934 1,050		254 255	01000 10111	119,934 1,050	SY SY	PAVEMENT PLANING, ASPHALT CONCRETE (1-1 FULL DEPTH PAVEMENT REMOVAL AND RIGID
						450				450		255	10111	450	SY SY	FULL DEPTH PAVEMENT REMOVAL AND RIGID
						5,750	L			5,750		255	20000	5,750	FT	FULL DEPTH PAVEMENT REMOVAL AND REGID
			10,054	5,713	622			L		16,389		407	10000	16,389	GAL	TACK COAT
10,000				16,323	468					16,791		408	10001	16,791	GAL	PRIME COAT, AS PER PLAN
10,209			3,491	1,983						10,209 5,474		442 442	00100 10150	10,209 5,474	CY CY	ANTI-SEGREGATION EQUIPMENT ASPHALT CONCRETE INTERMEDIATE COURSE,
			3,491 2,993	1,983 1,701	305					5,474 4,999		442	10150	5,474 4,999	CY CY	ASPHALT CONCRETE INTERMEDIATE COURSE, ASPHALT CONCRETE SURFACE COURSE, 12.5
				1,138	57					1,195		617	10100	1,195	CY	COMPACTED AGGREGATE
				11,708 52,699	1,170					 12,878 52,699		617 618	20000 40100	12,878 52,699	SY FT	SHOULDER PREPARATION RUMBLE STRIPS, SHOULDER (ASPHALT CONCR
546				52,033						52,699		SPECIAL	40100 45130000	52,699 546	FT FT	PRESSURE RELIEF JOINT, TYPE A
- 1																
							291			291		621	00100	291	ЕАСН	RPM
							291			291 291		621	54000	291	EACH	RAISED PAVEMENT MARKER REMOVED
							11.14			11.14		642	00104	11.14	MILE	EDGE LINE, 6", TYPE 1
							5.21			5.21		642	00204	5.21	MILE	LANE LINE, 6", TYPE 1
							965			965		642	00404	965	FT	CHANNELIZING LINE, 12", TYPE 1
							975			975		642	01510	975	FT	DOTTED LINE, 6", TYPE 1
							1			1		646	20320	1	EACH	WRONG WAY ARROW
							65			65		646	20800	65	FT	YIELD LINE
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		200								200		614	11110	200	HOUR	LAW ENFORCEMENT OFFICER WITH PATROL C
	16	16								16 16		614 614	12460 12484	16 16	EACH	WORK ZONE MARKING SIGN
		16								16		614	12484	16	EACH	WORK ZONE INCREASED PENALTIES SIGN
	15.48									15.48		614	20560	15.48	MILE	WORK ZONE LANE LINE, CLASS III, 6", 642 F
	33.12									33.12		614	22360	33.12	MILE	WORK ZONE EDGE LINE, CLASS III, 6", 642 F
	2,895									2,895		614	23690	2,895	FT	WORK ZONE CHANNELIZING LINE, CLASS III,
		69								69		808	18700	69	SNMT	DIGITAL SPEED LIMIT (DSL) SIGN ASSEMBLY
	LS									LS		614	11001	LS		MAINTAINING TRAFFIC, AS PER PLAN
	LJ									6		614	16010	6	MNTH	FIELD OFFICE, TYPE B
										LS		 623	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEY
										LS		624	10000	LS		MOBILIZATION

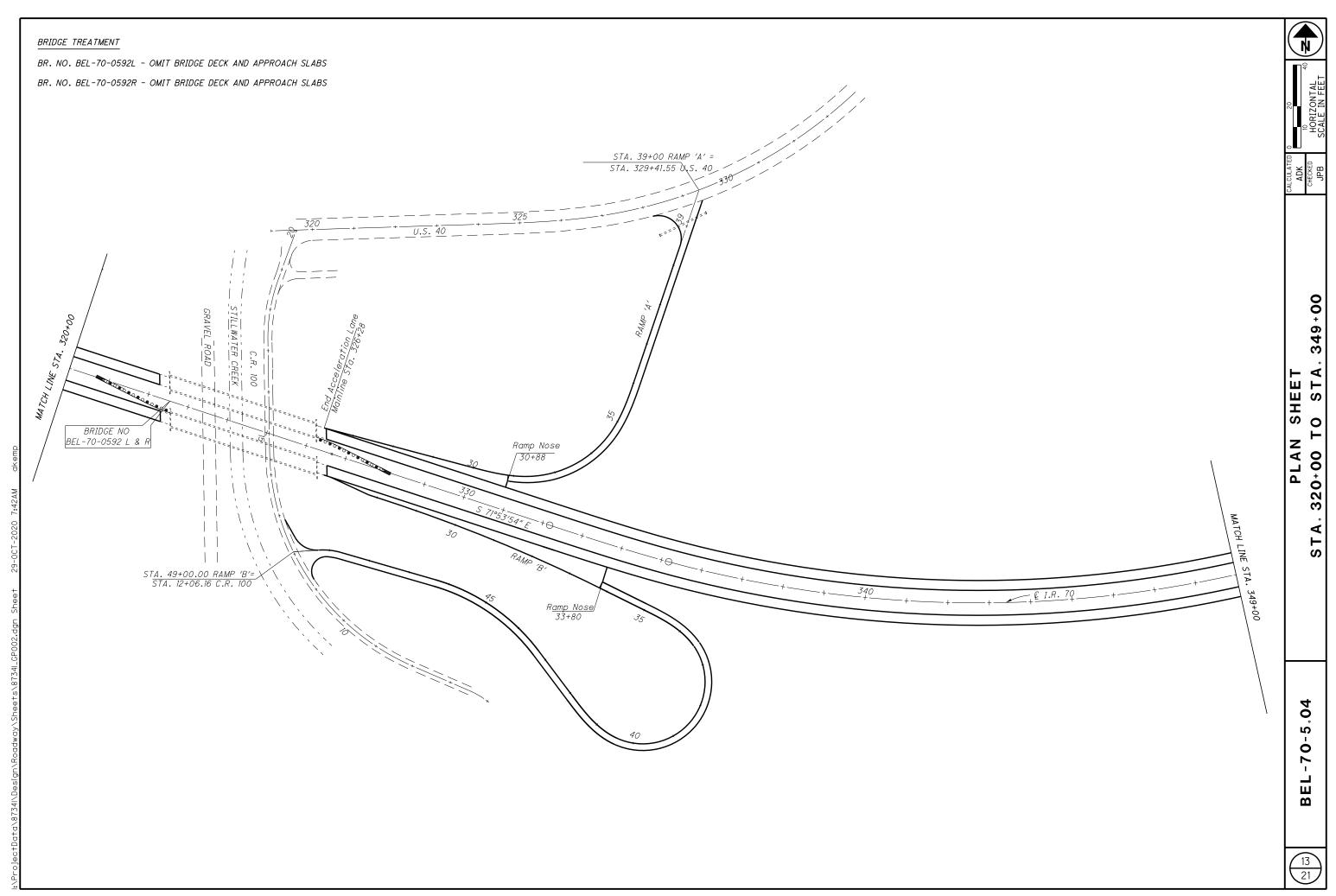
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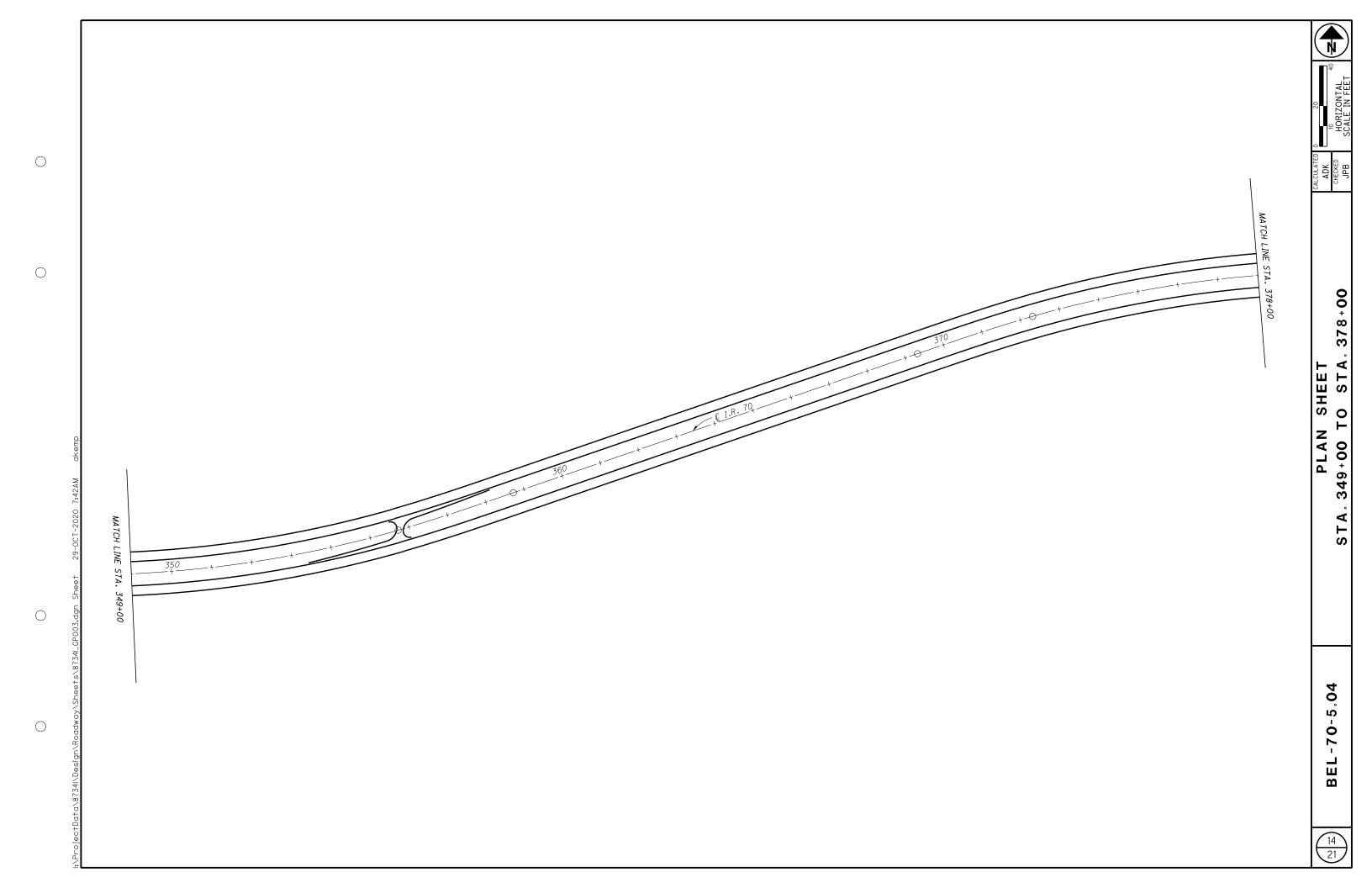
DESCRIPTION	SEE SHEET NO.	CALCULATED ADK CHECKED JPB
ROADWAY		
EROSION CONTROL		
PAVEMENT		
1-1/2") D REPLACEMENT, CLASS OC FS, AS PER PLAN (A)	19	
D REPLACEMENT, CLASS QC FS, AS PER PLAN (B)	19 19	
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E, 19 MM, TYPE B (446)		Σ
5 MM, TYPE B (447), AS PER PLAN	8	Σ
		SUMMARY
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CAR FOR ASSISTANCE		
PAINT		
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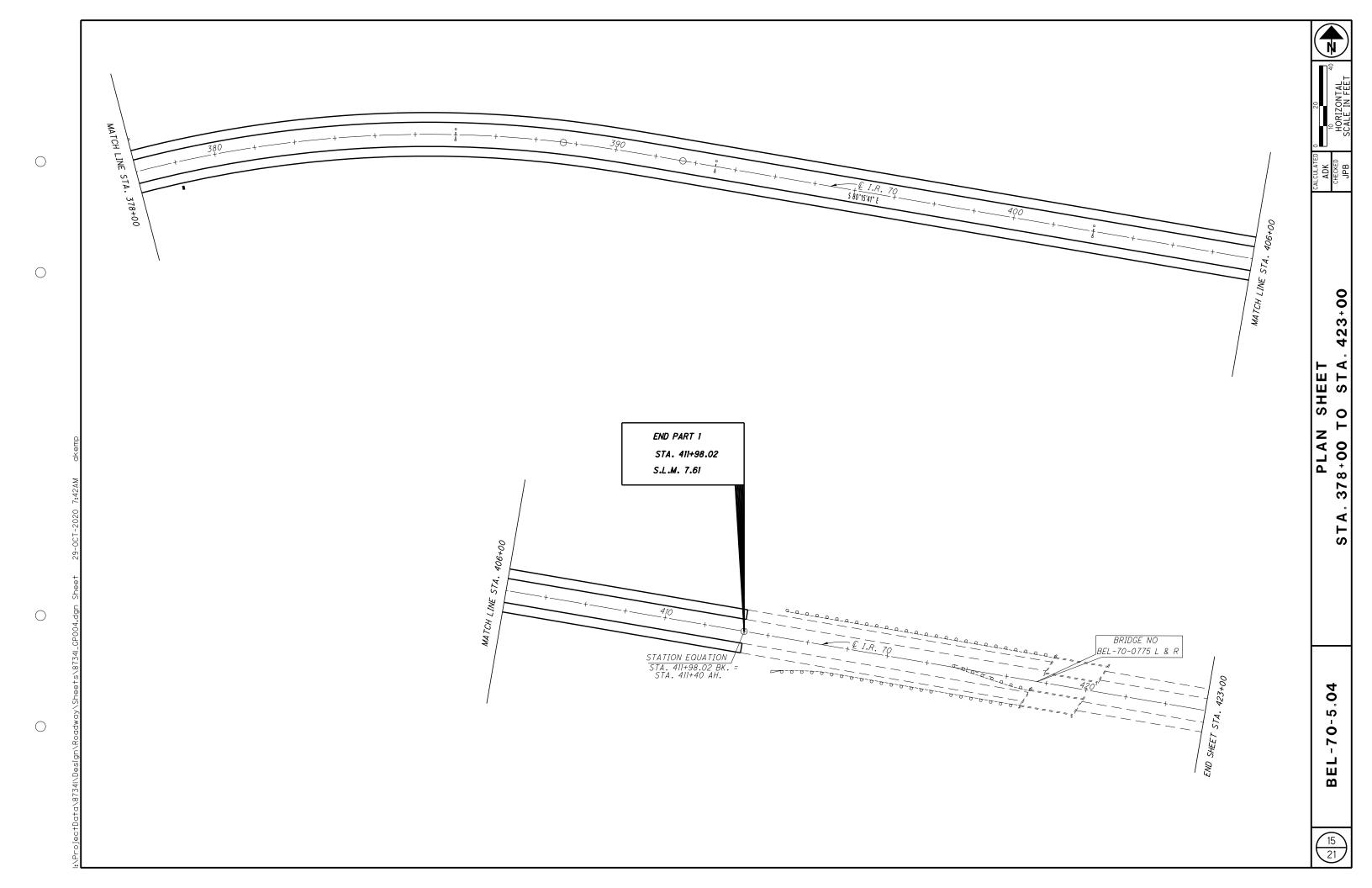






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							202		254	4			
LOCATION	STA	TION	LENGTH	WIDTH	TYPICAL	PAVEMENT AREA	WEARING COURSE REMOVED	IN.	PAVEMENT PLANING, ASPHALT CONCRETE, (1-1/27)	TACK COAT @ 0.055 GAL./S.Y.	TACK COAT @ 0.085 GAL./S.Y.	IN.	ASPHALT CONCRETE INTERMEDIATE COURSE, 19MM TYPE B (446)
EASTBOUND	FROM	ТО	FT	FT	-	SQ YD	SQ YD	_	SQ YD	GAL	GAL	_	CU YD
I.R. 70 MAINLINE													
	276+00.00	322+43.58	4,643.58	24.00		12,383		1 1/2	12,383	681	1,053	1 3/4	602
BR. NO. BEL-70-0592 R	OMIT	1 3531)					327						
	326+66.34	411+98.02	8,531.68	24.00		22,751		1 1/2	22,751	1,251	1,934	1 3/4	1,106
DECEL LANE - RAMP B	326+80.00	333+80.00	700.00	12.00		933		1 1/2	933	51	79	1 3/4	45
WESTBOUND IR. 70 MAINLINE													
	276+00.00	322+14.66	4,614.66	24.00		12,306		1 1/2	12,306	677	1,046	1 3/4	598
BR. NO. BEL-70-0592L	OMIT	(352')					327						
	326+37.42	411+98.02	8,560.60	24.00		22,828		1 1/2	22,828	1,256	1,940	1 3/4	1,110
ACCEL LANE - RAMP A	326+28.00	330+88.00	460.00	12.00		613		1 1/2	613	34	52	1 3/4	30
		RRIED TO GENER				1	653		71,814		,054		3,491

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44	2			ATED ED
E 1,)	IN.	ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE B (447), AS PER PLAN	REMARKS	CALCULATED ADK CHECKED JPB
		CU YD		
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	1 1/2	39		ESTIMATED QUANTITIES
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LOCATION	STATION	LENGTH	WIDTH	TYPICAL	PAVEMENT AREA	WEARING COURSE REMOVED	LINEAR GRADING	IN.	PAVEMENT PLANING, ASPHALT CONCRETE, (1-1/27)	TACK COAT ● 0.085 GAL./S.Y.	TACK COAT e 0.085 GAL./S.Y.	PRIME COAT,AS PER PLAN @ 0.4 GAL./S.Y.	IN.	ASPHALT CONCRETE INTERMEDIATE COURSE, 19MM, TYPE B, (447)	IN.	ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE B (446), AS PER PLAN	COMPACTED AGGREGATE WIDTH	IN.	COMPACTED AGGREGATE	SHOULDER PREPARATION	RUMBLE STRIPS, SHOULDER (ASPHALT CONCRETE)	CALCULA ADK
I.R. 70 E.B. SHOULDER	FROM TO	FT	FT	-	SQ YD	SQ YD	MILE	_	SQ YD	GAL	GAL	GAL	-	CU YD	-	CU YD	FT.		CU YD	SQ YD	FT.	-
INSIDE SHOULDER																						1
																						1
	276+00.00 322+43.58	4,643.58	4		2,064		0.88	1 1/2	2,064	114	175	826	1 3/4	100	1 1/2	86	4	1 3/4	100	2064	4644	-
BEL-70-0592 R	OMIT					54																-
DEL 10 0332 N						54																-
	326+66.34 411+98.02	8,531.68	4		3,792		1.62	1 1/2	3,792	209	322	1,517	1 3/4	184	1 1/2	158	4	1 3/4	184	3792	8532	1
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OUTSIDE SHOULDER																						-
	276+00.00 322+43.58	4 643 58	10		5,160		0.88	1 1/2	5.160	284	439	2.064	1 3/4	251	1 1/2	215	4	1 3/4	100	2064	4644	_ <i>(</i> ,
	210100.00 322143.30	,043.30	10		5,100		0.00	11/2	5,00	204	433	2,004	1 37 4	201	11/2	215	7	1 37 4	100	2004		╡╚
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OUTSIDE SHOULDER - SCL	326+80.00 327+80.00		9		100		0.02	1 1/2	100	6	9	40	1 3/4	5	1 1/2	4	4	1 3/4	2	44	100	∣ ż
OUTSIDE SHOULDER - SCL	327+80.00 332+80.00	500.00	8		444		0.09	1 1/2	444	24	38	178	1 3/4	22	1 1/2	19	4	1 3/4	11	222	500	
OUTSIDE SHOULDER - SCL	332+80.00 333+80.00 333+80.00 411+98.02	100.00	7 10		78 8.687		0.02	1 1/2	78 8,687	4 478	7	31 3,475	1 3/4 1 3/4	4 422	1 1/2	3 362	4	1 3/4 1 3/4	2 169	<u> </u>	100 7818	
	355780.00 411730.02	1,010.02	10		0,007		1.40	1 1/2	0,007	470	130	3,713	1 3/4	722	11/2	502	4	1 3/4	103	5475	1010	(
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	326+37.42 411+98.02	8,560.60	4		3,805		1.62	1 1/2	3,805	209	323	1,522	1 3/4	185	1 1/2	159	4	1 3/4	185	3805	8561	
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OUTSIDE SHOULDER																						
	276+00.00 322+14.66	4,614.66	10		5,127		0.87	1 1/2	5,127	282	436	2,051	1 3/4	249	1 1/2	214	4	1 3/4	100	2051	4615	┤╹
BR. NO. BEL-70-0592L	OMIT					54																-
DN. NO. DEL-10-0332L						54																-
OUTSIDE SHOULDER - SCL	326+28.00 329+88.00	360.00	10		400		0.07	1 1/2	400	22	34	160	1 3/4	19	1 1/2	17	4	1 3/4	8	160	360	1
OUTSIDE SHOULDER - SCL	329+88.00 330+88.00	100.00	8		89		0.02	1 1/2	89	5	8	36	1 3/4	4	1 1/2	4	4	1 3/4	2	44	100	1
	330+88.00 411+98.02	8,110.02	10		9,011		1.54	1 1/2	9,011	496	766	3,604	1 3/4	438	1 1/2	375	4	1 3/4	175	3604	8110	-
																			=-			-
	TOTALS CARRIED TO GENE	RAL SUMM	IRY			216	9.98		40,808	5,7	'13	16,323		1,983		1,701			1,138	23,420	52,699	

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BEL-70-5.04

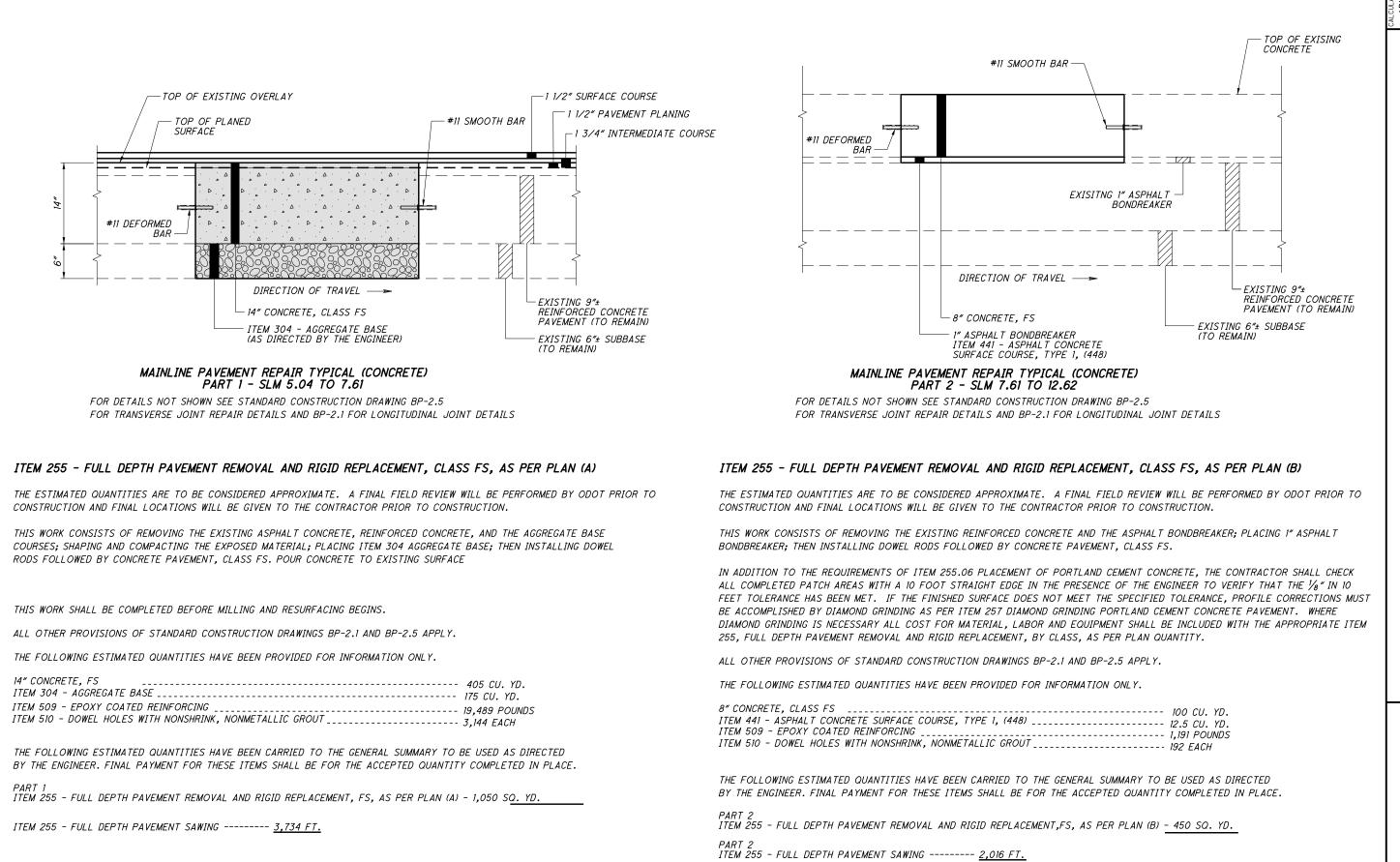
						209		254	407	408			617						TED
LOCATION	STA	TION	LENGTH	WIDTH	PAVEMENT AREA * CADD GENERATED Area	LINEAR GRADING	IN.	PAVEMENT PLANING, ASPHALT CONCRETE	TACK COAT € 0.085 GAL.∕S.Y.	e 0.40	COMPACTED AGGREGATE WIDTH	IN.	COMPACTED AGGREGATE	SHOULDER PREPARATION	IN.	ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE B (447), AS PER PLAN	REMARKS		CALCULAT ADK CHECKEL
I.R. 70	FROM	TO	FT	FT	SQ YD	MILE		SQ YD	GAL	GAL	FT		CU YD	SQ YD		CU YD			
RAMPS																		NO	
																		NO	
RAMP A																		NO	
MAINLINE & SHOULDERS	30+88.00	39+00.00	812.00	25.00	2,256	0.31	1 1/2	2,256	192	144	2	1 3/4	18	361	1 1/2	94		NO	
																		NO	
RAMP B																		NO	
MAINLINE & SHOULDERS	30+80.00	49+00.00	1,820.00	25.00	5,056	0.69	1 1/2	5,056	430	324	2	1 3/4	39	809	1 1/2	211		NO	
																		NO	
	TOTALS CA	RRIED TO GEI	VERAL SUMM	ARY		1.00		7,312	622	468			57	1170		305	01/IMS/PV		ES

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ESTIMATED QUANTITII



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-		 	 -		 · -		 	-	 	 -	100		CU.	ΥD	
-		 -	 -	-	 	-	 	-	 	 -	12.5		CU.	ΥD	١.
-		 -	 	-	 	-	 	-	 	 	1,19	1	POU	IND	S
-	-	 -	 	-	 	-	 		 	 	<i>192</i>	E	АСН		

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										621					642	1		6	46	
L AN I	SHEET NO.	COUNTY	ROUTE		ION TO ATION	LANE OR	SIDE OF LANE		Ri	РМ		RAISED PAVEMENT MARKER REMOVED	LINE, 6" TYPE I (YELLOW)	LINE, 6" TYPE 1 (WHITE)	NE, 6" TYPE I	CHANNEL IZING LINE, 12# TYPE 1	DOTTED LINE, 6" TYPE 1	VIELD LINE	WRONG WAY ARROW	FUNDING
	5	0				RAMP	OR RAMP		2-WAY	2-WAY	1-WAY	D PA RI	יט ערו) (1	LANE LINE,	ANNE 12	TED I	, II	SNO	
								SPACING	WHITE/RED	YELLOW/ RED	WHITE	RAISE	EDGE	EDGE	LAN	5	100		WR	
				FROM	ТО	-		FT.	EACH	EACH	EACH	EACH	MILE	MILE	MILE	FT.	FT.	FT.	EACH	-
						EAST	LT.						2.58							
		BEL	I.R. 70	276+00.00	411+98.02	BOUND	LANE	120			114	114		2.58	2.58					
							RT. LT.	80		24		24	0.31	2.58			405			
							GORE	40	13	21		13	0.51			465	100			
1		BEL	I.R. 70	CR 100 IN	NTERCHANGE	RAMP B	RT.							0.15						
	21																	65	1	
						WEST	LT.						2.58							
1		BEL	I.R. 70	276+00.00	411+98.02	BOUND	LANE RT.	120			114	114		2.58	2.58					
_							LT.	80		12		12	0.13	2.30			570			
1		BEL	I.R. 70	CR 100 IN	ITERCHANGE	RAMP A	GORE	40	14	12		14	0.10			500	010			
							RT.							0.13						
		S	UB-TOTALS	PART 1:						291		291	11.	04	5.16	965	975	65	1	01/IMS/PV
2		BEL	I.R. 70	411+40.00	675+00.00	E.B./W.B.	LT./RT.						0.05	0.05	0.05					
		SL	JB-TOTALS	PART 2:									0.	.10	0.05					01/IMS/PV
ΤΟΤΑ	LS CA	RRIED T	O GENFRAI	SUMMARY						291		291	11.	.14	5.21	965	975	65	1	01/IMS/PV

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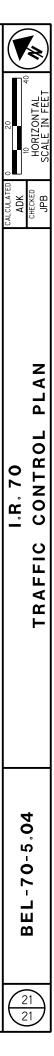
BEL-70-5.04

COUNTY BEL ROUTE I.R. 70 RAMP B EW EΥ 1 ---------(2)C.R. 100 ADDITIONAL PAVMENT MARKING (01/IMS/PV) (1)ITEM 646 - WRONG WAY ARROW - 1 EACH (2)ITEM 646 - YIELD LINE - 65 FT (EY)EW

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ITEM 642 - EDGE LINE (YELLOW), FOR INFO ONLY QUANTITY CARRIED ON SHEET 20

ITEM 642 - EDGE LINE (WHITE), FOR INFO ONLY QUANTITY CARRIED ON SHEET 20