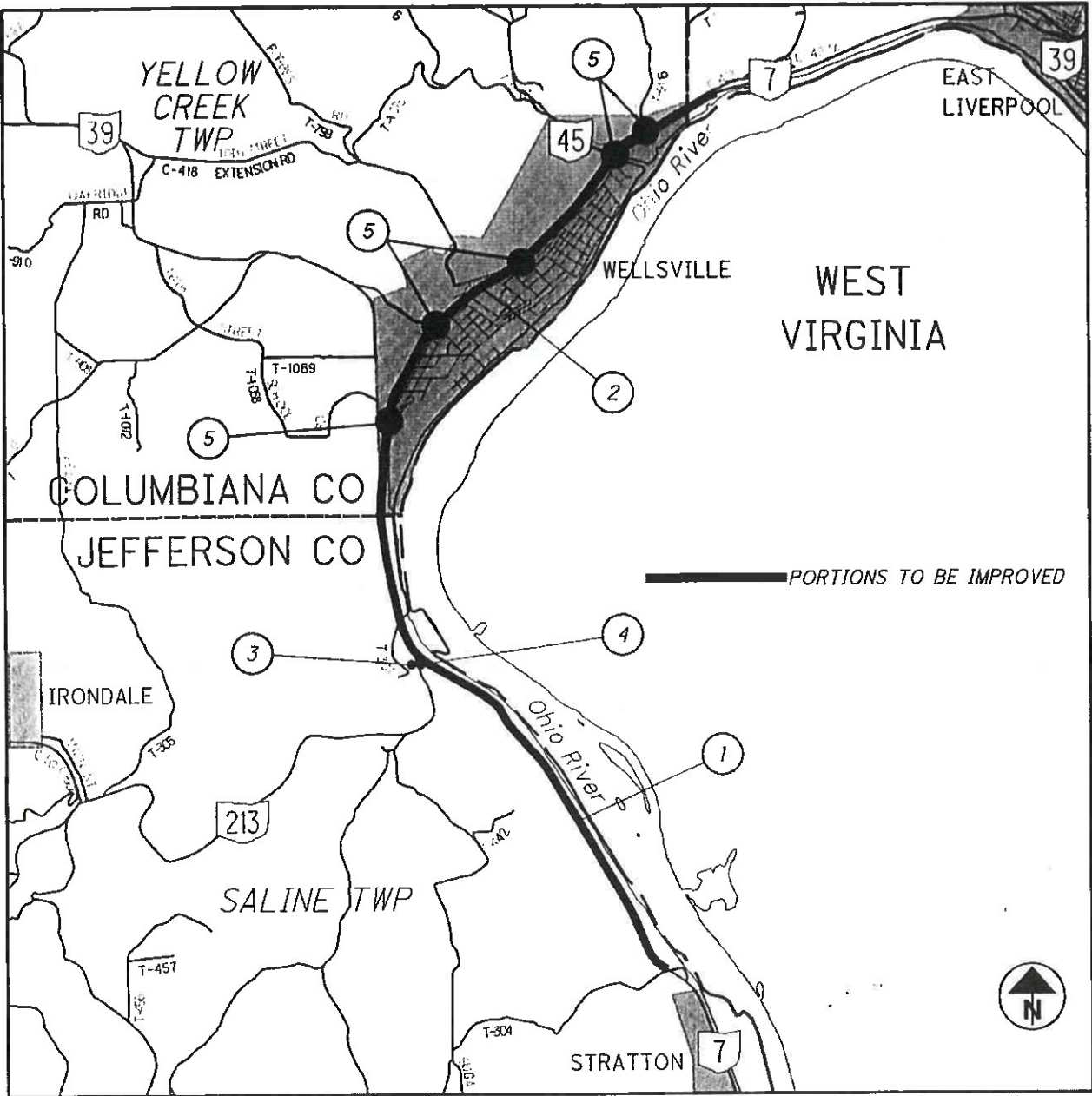


JEF - /COL-SR 7-31.13/00.00  
200061 PID - 81722  
Dist 11 2/13/2020

STATE OF OHIO  
DEPARTMENT OF TRANSPORTATION

CONFORMED SET

JEF / COL - 7 - 31.13 / 0.00  
442 4-LANE RESURFACING



LOCATION MAP

LATITUDE: N 40° 35' 00" LONGITUDE: W 80° 40' 15"

**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:  
ODOT DISTRICT II  
ENGINEERING

STANDARD CONSTRUCTION DRAWINGS									
BP-2.1	7/17/15	RM-4.2	10/24/19	MT-98.20	4/19/19	TC-21.50	7/15/16		
BP-2.2	7/18/08	RM-4.3	7/18/14	MT-98.22	1/20/17	TC-41.20	10/18/13		
BP-2.5	7/19/13	RM-4.4	7/19/19	MT-98.28	1/20/17	TC-42.20	10/18/13		
BP-3.1	10/18/19	RM-4.6	7/19/13	MT-99.20	4/19/19	TC-52.10	10/18/13		
BP-7.1	7/20/18	RM-6.1	7/18/14	MT-101.70	7/20/18	TC-52.20	7/20/18		
BP-9.1	1/18/19			MT-101.75	7/15/16	TC-65.10	1/17/14		
		HL-10.15	7/17/15	MT-101.80	1/16/15	TC-65.11	7/21/17		
I-2.1	1/15/16			MT-101.90	7/21/17	TC-71.10	1/19/18		
		MT-95.30	7/19/19	MT-103.10	1/19/18	TC-72.20	7/20/18		
DM-1.1	7/21/17	MT-95.40	1/20/17	MT-104.10	10/16/15	TC-73.20	7/21/17		
DM-4.3	1/15/16	MT-95.45	4/19/19	MT-105.10	7/19/13				
DM-4.4	1/15/16	MT-95.50	7/21/17						
		MT-98.10	1/20/17	TC-7.65	7/20/18				
RM-3.1	7/20/18	MT-98.11	4/19/19	TC-21.10	7/19/19				

SUPPLEMENTAL SPECIFICATIONS
800-2019 10/18/19
808 1/18/19
821 4/20/12
832 10/19/18
846 4/17/15
902 7/19/19
908 10/20/17
921 4/20/12
SPECIAL PROVISIONS

ENGINEER'S SEAL:



SIGNED: *DA. Hoffman*  
DATE: 11-13-19

PART	COUNTY	ROUTE	SECTION	PROJECT TERMINI		NET LENGTH MILES	VILLAGE / CITY
				BEGIN	END		
1	JEF	S.R. 7	31.13	31.13	34.55	3.42	
2	COL	S.R. 7	0.00	0.00	3.56	3.56	VILLAGE OF WELLSVILLE
3	JEF	S.R. 213 PARK & RIDE	-	-	-	-	
4	JEF	S.R. 7/S.R. 213 REST AREA	-	-	-	-	
PROJECT EARTH DISTURBED AREA = N/A (MAINTENANCE PROJECT)							
ESTIMATED CONTRACTOR EARTH DISTURBED AREA = N/A (MAINTENANCE PROJECT)							
NOTICE OF INTENT EARTH DISTURBED AREA = N/A (MAINTENANCE PROJECT)							

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.

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.

APPROVED DATE 11-13-2019

*Thomas A. Coey*  
DISTRICT DEPUTY DIRECTOR

APPROVED DATE 11/26/19

*Paul Montebello*  
DIRECTOR, DEPARTMENT OF TRANSPORTATION

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FEDERAL PROJECT NO.  
E150(687)

PID NO.  
81722

CONSTRUCTION PROJECT NO.

RAILROAD INVOLVEMENT  
NONE

JEF / COL - 7 - 31.13 / 0.00

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UTILITIES

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.

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT OHIO UTILITIES PROTECTION SERVICE (OUPS) TO ASSURE THAT THERE ARE NO UTILITY CONFLICTS IN THE AREA OF THE NEW SIGN SUPPORTS. SHOULD A CONFLICT BE NOTED, THE CONTRACTOR SHALL ADJUST WORK IN ORDER TO AVOID THE CONFLICT. THE ADJUSTED LOCATION SHALL BE AT THE APPROVAL OF THE ENGINEER.

THE OHIO DEPARTMENT OF TRANSPORTATION HAS UTILITY FACILITIES (HIGHWAY LIGHTING AND/OR TRAFFIC SIGNALS) WITHIN THE LIMITS OF THIS PROJECT.

IN ADDITION TO THE INFORMATION OUTLINED IN THIS CONTRACT, THE CONTRACTOR SHALL TAKE THE FOLLOWING ACTION TO PROTECT ODOT'S FACILITIES DURING CONSTRUCTION:

HIGHWAY LIGHTING AND/OR TRAFFIC SIGNALS: EVEN THOUGH ODOT IS LISTED AS A MEMBER OF THE OHIO UTILITIES PROTECTION SERVICE (OUPS), THE CONTRACTOR IS REQUIRED TO CONTACT ODOT DIRECTLY SO THAT THE ODOT UTILITIES LOCATED WITHIN THIS PROJECT ARE MARKED. THE CONTRACTOR SHALL NOTIFY THE ODOT PROJECT ENGINEER/PROJECT SUPERVISOR, FOURTEEN (14) CALENDAR DAYS IN ADVANCE OF ANY WORK, FOR THE NEED TO MARK ODOT OWNED UTILITIES.

THE ABOVE REQUIREMENTS ARE IN ADDITION TO SECTION 105.07 & 107.16 OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS. THE CONTRACTOR SHALL NOTIFY OTHER UTILITIES THROUGH OUPS OR DIRECTLY A MINIMUM OF FORTY-EIGHT HOURS IN ADVANCE OF ANY WORK.

EXISTING PLANS

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

JEF-7-(33.83-34.10) COL-7-(0.00-0.50)  
- 1957 ORIGINAL DESIGN  
JEF-7-(31.39-32.53) - 1961 ORIGINAL DESIGN  
COL-7-0.37 & CHANGE ORDER - 1973 ORIGINAL DESIGN  
JEF-7-34.29 - REST AREA - 1967 ORIGINAL DESIGN  
JEF-7-30.13 - 1990 UPGRADE PLAN  
COL-7-0.37 - 1990 RESURFACING PLAN  
JEF/COL-7-53.620/0.000 - PID 11080 -  
1998 RESURFACING (METRIC), ORIGINAL DESIGN OF  
PARK & RIDE  
COL-7-0.57 - PID 19345 - 2002 RAMP CONSTRUCTION  
JEF-7-31.13 - PID 23717 - 2005 RESURFACING PLAN  
COL-7-0.37 - PID 23734 - 2007 4-LANE UPGRADE  
COL-7-0.58 - PID 84005 - 2011 RAMP UPGRADE  
COL-7-2.75 - PID 103067 - 2016 BRIDGE REHAB

THESE EXISTING PLANS CAN ALSO BE DOWNLOADED FROM THE FOLLOWING FTP SITE:

FTP://FTP.DOT.STATE.OH.US/PUB/CONTRACTS/ATTACH

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.

PROFILE AND ALIGNMENT

THE WORK PROPOSED BY THIS PROJECT IS FOR THE GRINDING OF THE EXISTING PAVEMENT. THE ALIGNMENT AND SUPERELEVATION RATES OF THE EXISTING PAVEMENT WILL NOT BE CHANGED AND THE PROFILE OF THE PROPOSED SURFACE WILL BE SIMILAR TO THAT OF THE EXISTING PAVEMENT. PREVIOUS CONSTRUCTION PLANS SHOWING THE ORIGINAL ALIGNMENT AND PROFILE ARE LISTED ON THIS SHEET.

ITEM 441 - ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), AS PER PLAN (PG70-22M)  
ITEM 442 - ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE B (447), AS PER PLAN

FOLLOW SPECIFICATION 703.05 EXCEPT DO NOT USE COURSE AGGREGATE FROM A SOURCE DESIGNATED 'SR' OR 'SRH' ACCORDING TO THE OFFICE OF MATERIALS MANAGEMENT (OMM) IN ANY JOB MIX FORMULA (JMF) FOR THIS ITEM.

SURFACE COURSE COMPLETION REQUIREMENTS

ANY LENGTH OF RESURFACING WORK STARTED IN A CONSTRUCTION SEASON SHALL HAVE THE SURFACE COURSE PLACED THAT SAME SEASON.

COORDINATION OF RESURFACING AND PLANING OPERATIONS

THE PAVEMENT PLANING AND RESURFACING OPERATION SHALL BE COMPLETED IN A TIMELY MANNER AS DIRECTED BY THE ENGINEER. THE SURFACE COURSE SHALL BE PLACED NO MORE THAN (7) SEVEN DAYS AFTER REACHING THE FINAL MILLED SURFACE. THE GRINDINGS SHALL BECOME THE PROPERTY OF THE CONTRACTOR WITH THE EXCEPTION THAT SOME GRINDINGS MAY BE UTILIZED AS NOTED IN THE PLANS FOR GRADED SHOULDER ITEMS.

COOPERATION BETWEEN CONTRACTORS

THE CONTRACTOR IS HEREBY ADVISED THAT PROJECT JEF-213-18.44, PID 96599 MAY BE UNDER CONSTRUCTION DURING THE SAME PERIOD THAT THIS PROJECT IS TO BE CONSTRUCTED. UPON AWARD OF THIS CONTRACT, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND THE OTHER CONTRACTORS OF THE EFFECTS OF THIS CONTRACT UPON THE JEF-213-18.44 PROJECT. THE CONTRACTOR SHALL COOPERATE WITH THE OTHER CONTRACTORS IN ACCORDANCE WITH SEC. 105.08 AND ARRANGE A MUTUALLY ACCEPTABLE WORK SCHEDULE, SUBJECT TO THE APPROVAL OF THE ENGINEER. ANY CONFLICTS BETWEEN CONTRACTORS INVOLVING WORK SCHEDULES, WORK AREAS OR COOPERATION WILL BE RESOLVED BY THE ENGINEER.

ITEM 209 - LINEAR GRADING

GRADED SHOULDERS SHALL BE RESHAPED AS DIRECTED BY THE ENGINEER TO ENSURE A SMOOTH DRAINABLE SURFACE THAT IS FREE OF ALL IRREGULARITIES. VEGETATION, MATERIAL BUILDUP, AND COLLECTED DEBRIS ON THE SHOULDER OR WITHIN THE LINEAR GRADING LIMITS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AS SPECIFIED IN SECTION 209.01, OR WASTED OVER FILL SLOPES AT THE DIRECTION OF THE ENGINEER.

THIS ITEM SHALL MEET THE REQUIREMENTS OF ITEM 209 LINEAR GRADING EXCEPT AS FOLLOWS:

THE CONTRACTOR SHALL USE THE GRINDINGS FROM THE PROJECT IN LIEU OF ITEM - 617 COMPACTED AGGREGATE. SEE NOTE 'ITEM 617, COMPACTED AGGREGATE'.

ALL EQUIPMENT, MATERIALS AND LABOR REQUIRED TO PERFORM THE WORK OUTLINED ABOVE SHALL BE INCLUDED FOR PAYMENT UNDER ITEM 209, LINEAR GRADING.

ITEM 408 - PRIME COAT, AS PER PLAN

THE CONTRACTOR WILL APPLY "MC-70" AT A RATE OF 0.4 GALLONS PER SQUARE YARD, OR AS DETERMINED BY THE ENGINEER, TO THE COMPLETED AGGREGATE SHOULDER. A SHIELD SHALL BE PROVIDED TO PREVENT THE SPRAYING OR DRIFTING OF LIQUID BITUMINOUS MATERIAL ONTO THE EDGE OF THE PAVEMENT OR EDGELINE. THE ATTENTION OF THE CONTRACTOR IS DIRECTED TO 107.10 OF THE SPECIFICATIONS.

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.

DESIGN DESIGNATION	JEF SR 7 SLM 31.03-33.69	JEF SR 7 SLM 33.69-34.55	COL SR 7 SLM 0.00-0.37	COL SR 7 SLM 0.37-1.15	COL SR 7 SLM 1.15-1.44	COL SR 7 SLM 1.44-2.40	COL SR 7 SLM 2.40-2.76	COL SR 7 SLM 2.76-3.05	COL SR 7 SLM 3.05-3.53
CURRENT ADT (2020).....	8,300	9,700	9,700	8,400	8,400	15,000	15,000	11,000	10,500
DESIGN YEAR ADT (2032) .....	8,600	11,500	11,500	8,400	8,400	17,000	16,500	12,500	10,500
DESIGN HOURLY VOLUME (2032) .....	850	1,200	1,200	850	750	1,500	1,500	1,100	950
DIRECTIONAL DISTRIBUTION .....	67%	60%	60%	60%	54%	51%	51%	51%	52%
TRUCKS (24 HOUR B&C) .....	20%	15%	15%	16%	16%	11%	11%	30%	15%
DESIGN SPEED .....	55 MPH	55 MPH	55 MPH	55 MPH	55 MPH	55 MPH	55 MPH	55 MPH	55 MPH
LEGAL SPEED .....	55 MPH	55 MPH	55 MPH	55 MPH	55 MPH	55 MPH	55 MPH	55 MPH	55 MPH
DESIGN FUNCTIONAL CLASSIFICATION:	URBAN	URBAN	URBAN	URBAN	URBAN	URBAN	URBAN	URBAN	URBAN
	ARTERIAL	ARTERIAL	ARTERIAL	ARTERIAL	ARTERIAL	ARTERIAL	ARTERIAL	ARTERIAL	ARTERIAL
NHS PROJECT .....	YES	YES	YES	YES	YES	YES	YES	YES	YES

CALCULATED  
SAH  
CHECKED  
DAH

GENERAL NOTES

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53

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ITEM 519 – PATCHING CONCRETE STRUCTURE

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR THE PATCHING OF CONCRETE BARRIER AT THE LOCATIONS AS DIRECTED BY THE ENGINEER. APPLY A WHITE CURING COMPOUND TO THE FINISHED PATCHES. THE PATCHING SHALL BE COMPLETED BEFORE THE ASPHALT SURFACE COURSE IS PLACED.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID FOR ITEM 519, PATCHING CONCRETE STRUCTURE AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT, AND MATERIALS.

TOTAL CARRIED TO GENERAL SUMMARY:

PART 1 & 2 (01/NHS/PV)  
ITEM 519 – PATCHING CONCRETE STRUCTURE 950 SQ FT

ASPHALT CONCRETE JOINT SEALER

THE CONTRACTOR SHALL APPLY LIQUID ASPHALT CONCRETE (PG64-22) TO THE VERTICAL FACE OF ALL EXISTING ASPHALT PRIOR TO THE PLACEMENT OF THE ADJOINING ASPHALT CONCRETE LIFT. PAYMENT FOR THIS SHALL BE INCIDENTAL TO EACH RESPECTIVE ASPHALT CONCRETE COURSE OR BASE BEING PLACED.

MEDIAN AND/OR CURBING ON APPROACH SLABS

WITHIN THE LIMITS OF THE APPROACH SLAB, TRANSITION THE SHAPE OF THE MEDIAN AND/OR CURBING ON APPROACH SLABS FROM THE STANDARD SECTION ON THE APPROACHES TO THE SECTION USED ON THE BRIDGE.

ITEM SPECIAL – PIPE CLEANOUT

THIS WORK SHALL CONSIST OF REMOVING SEDIMENT AND DEBRIS FROM THE EXISTING DRAINAGE CONDUITS SPECIFIED IN THE PLANS. ALL MATERIAL REMOVED SHALL BE DISPOSED OF AS PER 105.16 AND 105.17. ALL SEWERS SHALL BE CLEANED OUT TO THE SATISFACTION OF THE ENGINEER.

CLEANOUT OF THE PIPE SHALL BE PAID FOR AT THE UNIT PRICE BID FOR ITEM SPECIAL – PIPE CLEANOUT. THIS PRICE SHALL INCLUDE THE COST FOR MATERIAL, EQUIPMENT, LABOR, AND ALL INCIDENTALS REQUIRED TO COMPLETE THE CLEANOUT.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE ABOVE NOTED WORK:

TOTAL CARRIED TO GENERAL SUMMARY:

PART 1 & 2 (01/NHS/PV)  
SPECIAL, PIPE CLEANOUT, 24” AND UNDER 1550 FT.  
SPECIAL, PIPE CLEANOUT, OVER 27” TO 48” 210 FT.

CROSSINGS AND CONNECTIONS TO EXISTING PIPES AND UTILITIES

WHERE PLANS PROVIDE FOR A PROPOSED CONDUIT TO BE CONNECTED TO, OR CROSS OVER OR UNDER AN EXISTING SEWER OR UNDERGROUND UTILITY, THE CONTRACTOR SHALL LOCATE THE EXISTING PIPES OR UTILITIES BOTH AS TO LINE AND GRADE BEFORE STARTING TO LAY THE PROPOSED CONDUIT.

IF IT IS DETERMINED THAT THE ELEVATION OF THE EXISTING CONDUIT, OR EXISTING APPURTENANCE TO BE CONNECTED, DIFFERS FROM THE PLAN ELEVATION OR RESULTS IN A CHANGE IN THE PLAN CONDUIT SLOPE, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WILL BE AFFECTED BY THE VARIANCE IN THE EXISTING ELEVATIONS.

IF IT IS DETERMINED THAT THE PROPOSED CONDUIT WILL INTERSECT AN EXISTING SEWER OR UNDERGROUND UTILITY IF CONSTRUCTED AS SHOWN ON THE PLAN, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WOULD BE AFFECTED BY THE INTERFERENCE WITH AN EXISTING FACILITY.

PAYMENT FOR ALL THE OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 611 CONDUIT ITEM.

REVIEW OF DRAINAGE FACILITIES

BEFORE ANY WORK IS STARTED ON THE PROJECT AND AGAIN BEFORE FINAL ACCEPTANCE BY THE STATE, REPRESENTATIVES OF THE STATE AND THE CONTRACTOR SHALL MAKE AN INSPECTION OF ALL EXISTING STORM SEWERS WHICH ARE TO REMAIN IN SERVICE AND WHICH MAY BE AFFECTED BY THE WORK. THE CONDITION OF THE EXISTING CONDUITS AND THEIR APPURTENANCE SHALL BE DETERMINED FROM FIELD OBSERVATIONS. RECORDS OF THE INSPECTION SHALL BE KEPT IN WRITING BY THE STATE.

ALL NEW CONDUITS, INLETS, CATCH BASINS, AND MANHOLES CONSTRUCTED AS A PART OF THE PROJECT SHALL BE FREE OF ALL FOREIGN MATTER AND IN A CLEAN CONDITION BEFORE THE PROJECT WILL BE ACCEPTED BY THE STATE.

ALL EXISTING SEWERS INSPECTED INITIALLY BY THE ABOVE MENTIONED PARTIES SHALL BE MAINTAINED AND LEFT IN A CONDITION REASONABLY COMPARABLE TO THAT DETERMINED BY THE ORIGINAL INSPECTION. ANY CHANGE IN THE CONDITION RESULTING FROM THE CONTRACTOR’S OPERATIONS SHALL BE CORRECTED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER.

PAYMENT FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 611 CONDUIT ITEMS.

SHIELD

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 607 – FENCE, MISC.: TEMPORARY ORANGE PLASTIC CONSTRUCTION FENCE

TEMPORARY ORANGE PLASTIC/NYLON CONSTRUCTION FENCE SHALL BE PLACED AROUND NEW CURB RAMPS AND WALK LOCATIONS FROM DEMOLITION, IF NOT IMMEDIATELY POURED, UNTIL ADEQUATELY CURED, OR AS DIRECTED BY THE ENGINEER TO PROTECT PEDESTRIAN TRAFFIC FROM CONSTRUCTION OPERATIONS. THE FENCING MATERIAL SHALL BE SECURELY FASTENED TO EITHER WOOD, OR METAL POSTS WITH A MAXIMUM SPACING NOT TO EXCEED 6 FEET. THE FENCING MATERIAL SHALL HAVE A NOMINAL HEIGHT OF 42 INCHES, AND THE TOP EDGE OF THE FENCING SHALL NOT BE PERMITTED TO SAG BELOW 30 INCHES. THE CONTRACTOR SHALL ENSURE THE FENCE IS IN GOOD CONDITION, PROPERLY PLACED, AND MAINTAINED AT ALL TIMES. PAYMENT FOR THE FENCING SHALL OCCUR ONCE PER LOCATION AND ANY REMOVAL OR REERECTION AT THE CONTRACTOR’S DISCRETION SHALL BE CONSIDERED INCIDENTAL AND PERFORMED AT THE CONTRACTOR’S EXPENSE.

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

ITEM 607 – FENCE MISC.: TEMPORARY ORANGE PLASTIC CONSTRUCTION FENCE

PART 2 (01/NHS/PV) 125 FT  
PART 4 (03/NFS/PV) 150 FT

TOTAL CARRIED TO GENERAL SUMMARY 275 FT

PAVEMENT RESTORATION FOR DRAINAGE STRUCTURE AND PIPE INSTALLATION

PROVIDE 12 INCHES OF ITEM 301 AND A WIDTH OF TWO FEET AROUND THE PERIMETER OF EACH DRAINAGE STRUCTURE. PROVIDE 9 INCHES OF ITEM 301 AND A PAVEMENT RESTORATION WIDTH THAT INCLUDES THE TRENCH WIDTH PLUS TWO FEET ON EACH SIDE OF THE TRENCH.

THE FOLLOWING QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR PAVEMENT RESTORATION FOLLOWING INSTALLATION AND/OR REMOVAL OF ITEM 611, DRAINAGE STRUCTURES AND PIPE:

PART 2 (01/NHS/PV)  
ITEM 301, ASPHALT CONCRETE BASE, PG64-22 81 CU YD

PROVIDE ANY MATERIALS USED OUTSIDE THE LIMITS STATED ABOVE AT NO ADDITIONAL COST.

ITEM SPECIAL – PARKING BLOCK REMOVED

PARKING BLOCKS IN THE PARK AND RIDE FACILITY SHALL BE REMOVED AND DISPOSED OF OFF-SITE PER CMS SECTION 105.17. REMOVAL AND PROPER DISPOSAL SHALL BE PAID FOR UNDER THE UNIT PRICE BID FOR ITEM SPECIAL, PARKING BLOCK REMOVED.

THE FOLLOWING QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY:

PART 3 (02/NFA/PV)  
ITEM SPECIAL, PARKING BLOCK REMOVED 24 EACH

ITEM SPECIAL – CONCRETE PARKING BLOCK

CONCRETE PARKING BLOCKS CONSTRUCTED PER RM-6.1 SHALL BE PLACED IN EACH PARKING SPACE IN THE PARK AND RIDE FACILITY. PARKING BLOCKS SHALL BE PAID FOR UNDER THE UNIT PRICE BID FOR ITEM SPECIAL, CONCRETE PARKING BLOCKS.

THE FOLLOWING QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY:

PART 3 (02/NFA/PV)  
ITEM SPECIAL, CONCRETE PARKING BLOCK 24 EACH

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MAINTAINING TRAFFIC, AS PER PLAN

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 STD DWG 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, SPECIAL LIGHTING, FLOODLIGHTING, WORK ZONE PAVEMENT MARKINGS, WORK ZONE RAISED PAVEMENT MARKERS, ETC., SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 614 MAINTAINING TRAFFIC, AS PER PLAN.

THE CONTRACTOR SHALL FURNISH, INSTALL AND MAINTAIN ALL ADDITIONAL SIGNS OR OTHER TRAFFIC CONTROL DEVICES AS REQUIRED ABOVE. ALL COSTS INVOLVED IN FURNISHING, INSTALLING AND MAINTAINING THESE DEVICES 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.

(CONTINUED...)

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. THE RESTRICTIONS SHALL ALSO APPLY TO WORK ON THE RAMPS.

THE PLANING AND RESURFACING WILL PROCEED CONTINUOUSLY A MINIMUM OF FIVE (5) DAYS PER WEEK, WEATHER PERMITTING, EXCEPTING HOLIDAYS AND EVENTS LISTED BELOW:

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	THANKSGIVING

THE PERIOD OF TIME THAT THE LANES ARE TO BE OPENED 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 OPENED TO TRAFFIC
SUNDAY	12:00N FRI THRU 6:00 AM MON
MONDAY	12:00N FRI THRU 6:00 AM TUE
TUESDAY	12:00N MON THRU 6:00 AM WED
WEDNESDAY	12:00N TUE THRU 6:00 AM THU
THURSDAY	12:00N WED THRU 6:00 AM FRI
(THANKSGIVING ONLY)	6:00 AM WED THRU 6:00 AM MON
FRIDAY	12:00N THU THRU 6:00 AM MON
SATURDAY	12:00N FRI THRU 6:00 AM MON

SHOULD THE CONTRACTOR FAIL TO MEET ANY OF THESE REQUIREMENTS, THE CONTRACTOR SHALL BE ASSESSED A DISINCENTIVE IN THE AMOUNT OF \$4,200 FOR EACH HOUR THE ABOVE DESCRIBED LANE CLOSURE RESTRICTIONS ARE VIOLATED.

PEDESTRIAN WALKWAYS CONSTRUCTED BY THE CONTRACTOR SHALL BE KEPT FREE OF ANY OBSTRUCTIONS OR HAZARDS INCLUDING HOLES, DEBRIS AND MUD. OTHER WALKWAYS DAMAGED OR DIRTIED BY THE CONTRACTOR SHALL BE IMMEDIATELY REPAIRED OR CLEANED. THE CONTRACTOR MUST TAKE PRECAUTIONS TO PROTECT PEDESTRIANS FROM EXPOSURE TO HAZARDS RESULTING FROM THE CONSTRUCTION OPERATION BY INSTALLING CONSTRUCTION FENCE AND SIGNING.

TEMPORARY ORANGE PLASTIC CONSTRUCTION FENCE HAS BEEN PROVIDED HEREIN AS A TRAFFIC CONTROL DEVICE TO DIVERT AND GUIDE PEDESTRIANS WHOSE PATH WOULD OTHERWISE ENTER THE WORK AREA. THE TEMPORARY ORANGE PLASTIC CONSTRUCTION FENCE SHALL BE PLACED AROUND THE SIDEWALK WORK AREAS. SIDEWALK CLOSED SIGN (R9-9 (30 X 18)) MOUNTED ON A TYPE 3 BARRICADE WITH TYPE A FLASHING LIGHTS SHALL BE PLACED OUTSIDE THE FENCE ON EACH SIDEWALK APPROACH AS SHOWN ON SCD MT-101.60.

(CONTINUED...)

MAINTAINING TRAFFIC, AS PER PLAN (CONTINUED...)

FOR REPAIR OR RECONSTRUCTION WORK INVOLVING SIDEWALKS ON BOTH SIDES OF THE STREET, THE WORK SHALL BE STAGED SO THAT ONE SIDE IS COMPLETED AND OPEN TO PEDESTRIAN TRAFFIC BEFORE THE OTHER IS DISRUPTED.

NO EXTENSIONS OF TIME SHALL BE GRANTED FOR DELAYS IN MATERIAL DELIVERIES, UNLESS SUCH DELAYS ARE INDUSTRY-WIDE, OR FOR LABOR STRIKES, UNLESS SUCH STRIKES ARE AREA-WIDE.

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 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.

SEQUENCE OF CONSTRUCTION

PHASE 1 - MEDIAN SIDE WORK

1. PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION OPERATIONS CLOSE THE MEDIAN SIDE LANE OF TRAFFIC AND PLACE PORTABLE BARRIER PER MT-95.40
2. REMOVE OVERHEAD TRUSS SIGN SUPPORT
3. REMOVE EXISTING MEDIAN BARRIER AND MEDIAN DRAINAGE STRUCTURES
4. CONSTRUCT PROPOSED MEDIAN CONCRETE BARRIER.
5. REMOUNT OVERHEAD TRUSS SIGN SUPPORT.
6. REMOVE PORTABLE BARRIER AND PLACE DRUMS PER MT-95.30
7. PERFORM FULL DEPTH AND PARTIAL DEPTH REPAIRS IN COORDINATION WITH MILLING THE MEDIAN SIDE PASSING LANE AND MEDIAN SHOULDER.
8. RESURFACE MEDIAN AND MEDIAN SIDE PASSING LANE

PHASE 2 - OUTSIDE WORK

1. PLACE DRUMS PER MT-95.30
2. PERFORM FULL DEPTH AND PARTIAL DEPTH REPAIRS IN COORDINATION WITH MILLING THE OUTSIDE LANE AND OUTSIDE SHOULDER.
3. RESURFACE DRIVING LANES, OUTSIDE SHOULDER AND RAMPS.

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

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

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.



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WORK ZONE PAVEMENT MARKINGS AND SIGNS

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 AND 614.11.

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 MARKINGS.

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

PART 1 & 2 (01/NHS/PV)		
ITEM 614 -WORK ZONE LANE LINE, CLASS III, 642 PAINT	27.92 MILE	
ITEM 614 - WORK ZONE EDGE LINE, CLASS III, 642 PAINT	65.14 MILE	
ITEM 614 -WORK ZONE CHANNELIZING LINE, 8", CLASS III, 642 PAINT	2650 FT	
ITEM 614 -WORK ZONE STOP LINE, CLASS III, 642 PAINT	510 FT	

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:

PART 1 & 2 (01/NHS/PV)		
ITEM 614 - WORK ZONE MARKING SIGN (W8-11-48)	20 EACH	
ITEM 614 - REPLACEMENT SIGN	10 EACH	

DELINEATION OF PORTABLE AND PERMANENT BARRIER

BARRIER REFLECTORS AND OBJECT MARKERS SHALL BE INSTALLED ON ALL PORTABLE BARRIER (PB) USED FOR TRAFFIC CONTROL; AND, ON PERMANENT CONCRETE BARRIER (INCLUDING BRIDGE PARAPETS) LOCATED WITHIN 5 FEET OF THE EDGE OF THE ADJACENT TRAVEL LANE.

BARRIER REFLECTORS SHALL CONFORM TO C&MS 626, EXCEPT THAT THE SPACING SHALL BE AS PER TRAFFIC SCD MT-101.70. OBJECT MARKERS AND THEIR INSTALLATION SHALL CONFORM TO C&MS 614.03 AND SCD MT-101.70.

PAYMENT SHALL BE FULL COMPENSATION FOR ALL MATERIAL, LABOR, INCIDENTALS AND EQUIPMENT NECESSARY FOR FURNISHING, INSTALLING, MAINTAINING AND REMOVING EACH OF THE ABOVE ITEMS.

ITEM 614, ASPHALT CONCRETE FOR MAINTAINING TRAFFIC

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER:

PART 1 & 2 (01/NHS/PV)		
ITEM 614, ASPHALT CONCRETE FOR MAINTAINING TRAFFIC	50 CU. YD.	

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 (W20-1) 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 R11-H5A-24. R11-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 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 REERECTED 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.

PART 1 & 2 (01/NHS/PV)		
ITEM 614, WORK ZONE INCREASED PENALTIES SIGN	34 EACH	

MOVEMENT OF DRUMS

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.

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 ARE MET AS DESCRIBED BELOW:

WZSZ REVISION NUMBER(S)	CNTY-RTE-SECT(S)	DIRECTION(S)
WZ-60578	JEF-7-30.92 TO COL-7-3.77	NB & SB

POTENTIAL WZSZ LOCATIONS SHALL HAVE AN ORIGINAL (PRECONSTRUCTION) POSTED SPEED LIMIT OF 55 MPH OR GREATER, 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 TIME.

C&MS ITEM 614, PARAGRAPH 614.02(B), INDICATES THAT TWO DIRECTIONS OF A DIVIDED 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 THE NOTE, APPROVED LIST, SUPPLEMENTAL SPECIFICATIONS (SS) 808 AND 908, AND TRAFFIC SCD MT-104.10.

ONLY ONE WARRANTED SPEED LIMIT APPLIES AT ANY ONE TIME; SPEED LIMIT REDUCTIONS ARE NOT CUMULATIVE. WZSZS SHALL NOT BE USED FOR MOVING/MOBILE ACTIVITIES, AS DEFINED IN OMUTCD PART 6.

(CONTINUE...)

WORK ZONE SPEED ZONES (WZSZS)

(CONTINUED...)

WHEN LOOKING UP THE WARRANTED WORK ZONE SPEED LIMITS, ALWAYS USE THE ORIGINAL, PRECONSTRUCTION, 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 IN HIGH-SPEED (55 MPH OR GREATER) MULTI-LANE HIGHWAYS				
ORIGINAL POSTED SPEED LIMIT	WITH POSITIVE PROTECTION		WITHOUT POSITIVE PROTECTION	
	WORKERS PRESENT	WORKERS NOT PRESENT	WORKERS PRESENT	WORKERS 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.

PART 1 & 2 (01/NHS/PV)		
ITEM 808, DIGITAL SPEED LIMIT (DSL)		
SIGN ASSEMBLY	54 SIGN MNTH	
ASSUMING 18 DSL SIGN ASSEMBLIES FOR 3 MONTH(S)		

ITEM 614, REPLACEMENT DRUM

DRUMS FURNISHED BY THE CONTRACTOR IN ACCORDANCE WITH THE REQUIREMENTS OF THE PLANS, SPECIFICATIONS AND PROPOSAL WHICH BECOME DAMAGED BY TRAFFIC FOR REASONS BEYOND THE CONTROL OF THE CONTRACTOR SHALL BE REPLACED IN KIND WHEN ORDERED BY THE ENGINEER. REPLACEMENT DRUMS SHALL BE NEW.

PAYMENT FOR THE NEW DRUMS SHALL BE MADE AT THE CONTRACT PRICE PER EACH FOR ITEM 614, REPLACEMENT DRUM, AND SHALL INCLUDE THE COST OF REMOVING AND DISPOSING OF THE DAMAGED DRUM, AND PROVIDING AND MAINTAINING THE REPLACEMENT DRUM IN ACCORDANCE WITH THE CONTRACT REQUIREMENTS FOR THE ORIGINAL DRUM.

THE FOLLOWING QUANTITY HAS BEEN PROVIDED IN THE GENERAL SUMMARY:

PART 1 & 2 (01/NHS/PV)		
ITEM 614 - REPLACEMENT DRUM	10 EACH	

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

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 OMTCD INTENDS THAT FLAGGERS BE USED.

IN ADDITION TO THE REQUIREMENTS OF C&MS 614 AND THE OMTCD, 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:

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

IN ADDITION TO THE REQUIREMENT OF C&MS 614 AND THE OMTCD, A UNIFORMED LEO WITH AN OFFICIAL PATROL CAR (CAR WITH TOP-MOUNTED EMERGENCY FLASHING LIGHTS AND COMPLETE MARKINGS OF THE APPROPRIATE LAW ENFORCEMENT AGENCY) SHOULD BE PROVIDED FOR THE FOLLOWING TRAFFIC CONTROL TASKS AS APPROVED BY THE ENGINEER:

FOR LANE CLOSURES: DURING INITIAL SET-UP PERIODS, TEAR DOWN PERIODS, SUBSTANTIAL SHIFTS OF A CLOSURE POINT OR WHEN A 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 IN ADVANCE OF AND ON THE SAME SIDE AS THE LANE RESTRICTION OR AT THE POINT OF ROAD CLOSURE, AND TO MANUALLY CONTROL TRAFFIC MOVEMENTS THROUGH SIGNALIZED 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 LEOS’ DUTIES AND PLACEMENT, AND WILL RESOLVE ANY ISSUES THAT MAY ARISE BETWEEN THE TWO PARTIES.

ENSURE PROVIDED LEOS HAVE BEEN TRAINED APPROPRIATE TO THE JOB DECISIONS THEY ARE REQUIRED TO MAKE WHILE ON THE PROJECT, IN ACCORDANCE WITH C&MS 614.03.

(CONTINUED...)

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

(CONTINUED...)

THE LEO SHALL REPORT IN TO THE CONTRACTOR PRIOR TO THE START OF THE SHIFT, IN ORDER TO RECEIVE INSTRUCTIONS REGARDING THE 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 QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY:

PART 1 & 2 (01/NHS/PV)  
ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE 200 HOURS

THE HOURS PAID SHALL INCLUDE ANY 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 A LEO ARE INCLUDED WITH THE BID UNIT PRICE FOR ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE.

ITEM 614, WORK ZONE IMPACT ATTENUATOR FOR 24" WIDE HAZARDS (UNIDIRECTIONAL)

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING A NONGATING IMPACT ATTENUATOR. FURNISH AN IMPACT ATTENUATOR FROM THE OFFICE OF ROADWAY ENGINEERING’S APPROVED LIST FOR WORK ZONE IMPACT ATTENUATORS, FROM THE ROADWAY STANDARDS APPROVED PRODUCTS WEB PAGE.

INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS IN ACCORDANCE WITH THE MANUFACTURER’S SPECIFICATIONS.

THE CONTRACTOR SHALL REPAIR OR REPLACE A DAMAGED UNIT WITHIN 24 HOURS OF A DAMAGING IMPACT.

WHEN BIDIRECTIONAL DESIGNS ARE SPECIFIED, THE CONTRACTOR SHALL SUPPLY APPROPRIATE TRANSITIONS.

WHEN GATING IMPACT ATTENUATORS ARE DESIRED, THE CONTRACTOR SHALL SUBMIT DOCUMENTATION TO THE ENGINEER FOR ACCEPTANCE.

THE COST FOR THE ADDITIONAL BARRIER REQUIRED FOR A GATING IMPACT ATTENUATOR SHALL BE INCLUDED IN THE COST OF THE GATING IMPACT ATTENUATOR.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO CONSTRUCT AND MAINTAIN A COMPLETE AND FUNCTIONAL IMPACT ATTENUATOR SYSTEM, INCLUDING ALL RELATED BACKUPS, TRANSITIONS, LEVELING PADS, HARDWARE AND GRADING, NOT SEPARATELY SPECIFIED, AS REQUIRED BY THE MANUFACTURER.

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 INTERSTATE 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.

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.

MAINTENACE OF TRAFFIC ESTIMATED QUANTITIES							
LOCATION SLM		LENGTH	622	614			COMMENTS
			PORTABLE BARRIER, 32"	BARRIER REFLECTOR, TYPE 1 (ONE-WAY)	OBJECT MARKER, ONE-WAY	WORK ZONE IMPACT ATTENUATOR (UNIDIRECTIONAL)	
BEGIN	END		FT	EACH	EACH	EACH	
NORTHBOUND S.R. 7							
0.23	3.52	17370	17370	347	347	4	
NORTHBOUND S.R. 7							
0.23	3.52	17370	17370	347	347	4	
TOTAL CARRIED TO GENERAL SUMMARY			34740	694	694	8	PART 1 & 2 (01/ NHS / PV)

○

$$\frac{7}{53}$$

$$\frac{8}{53}$$

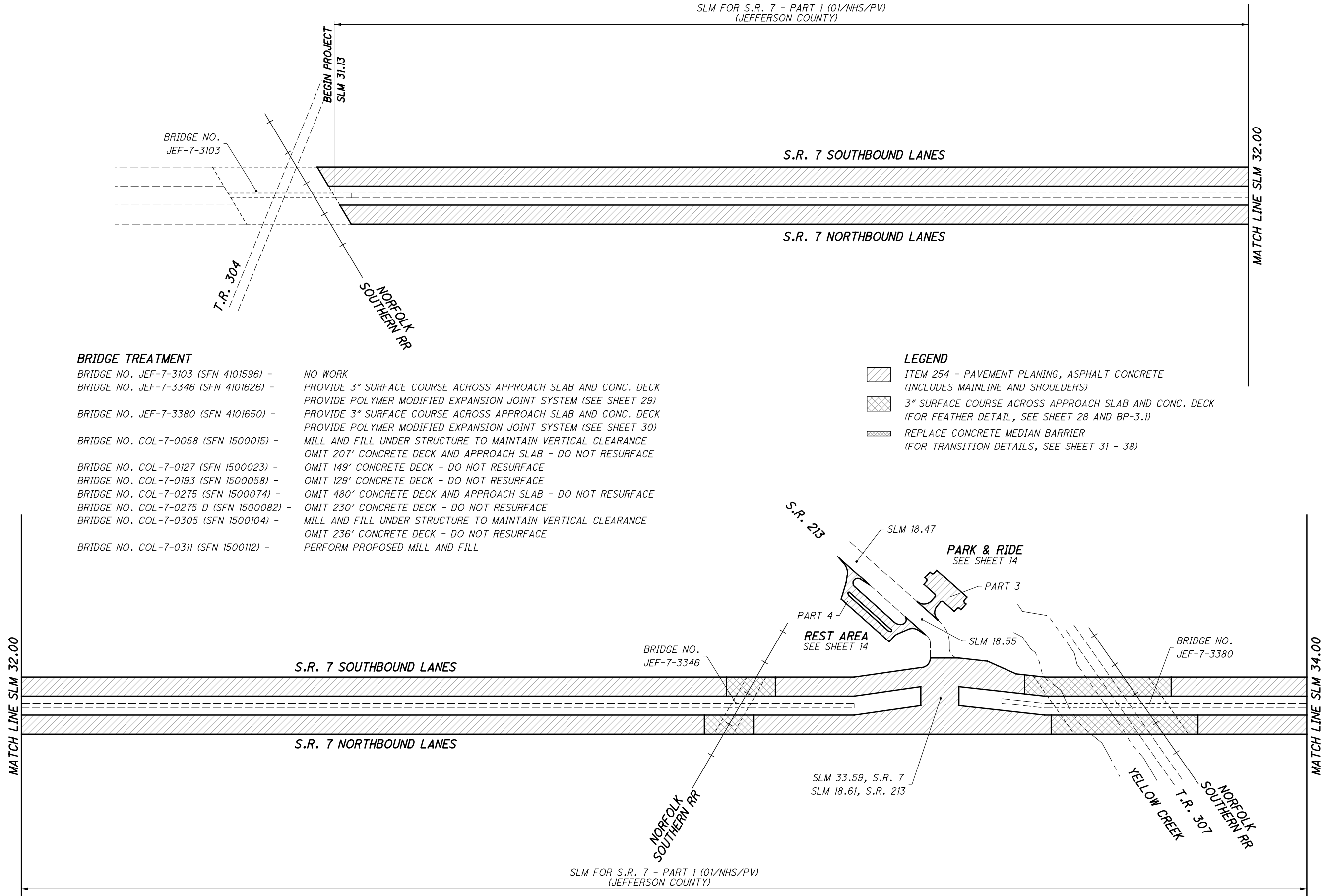




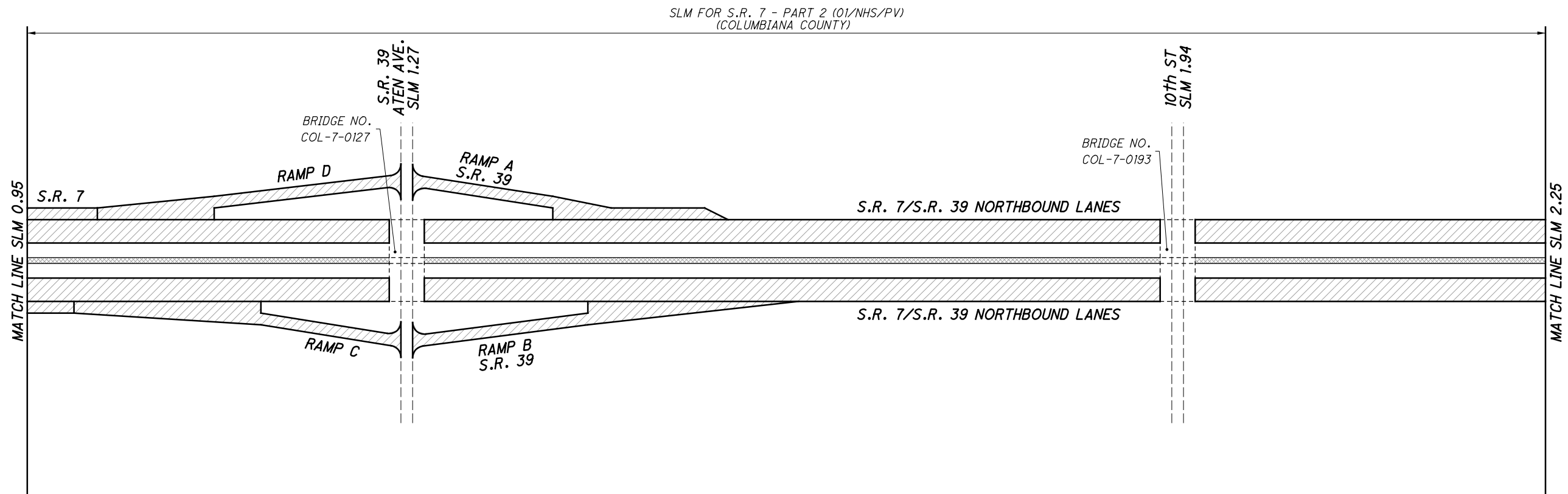
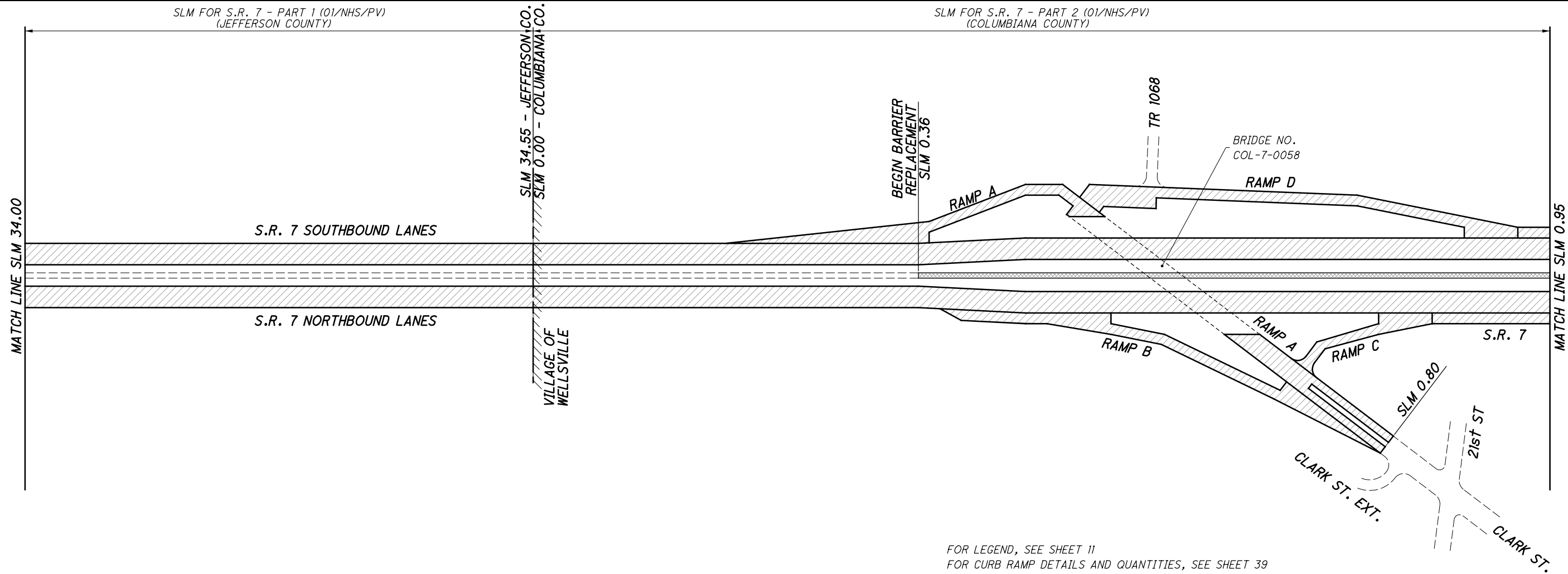
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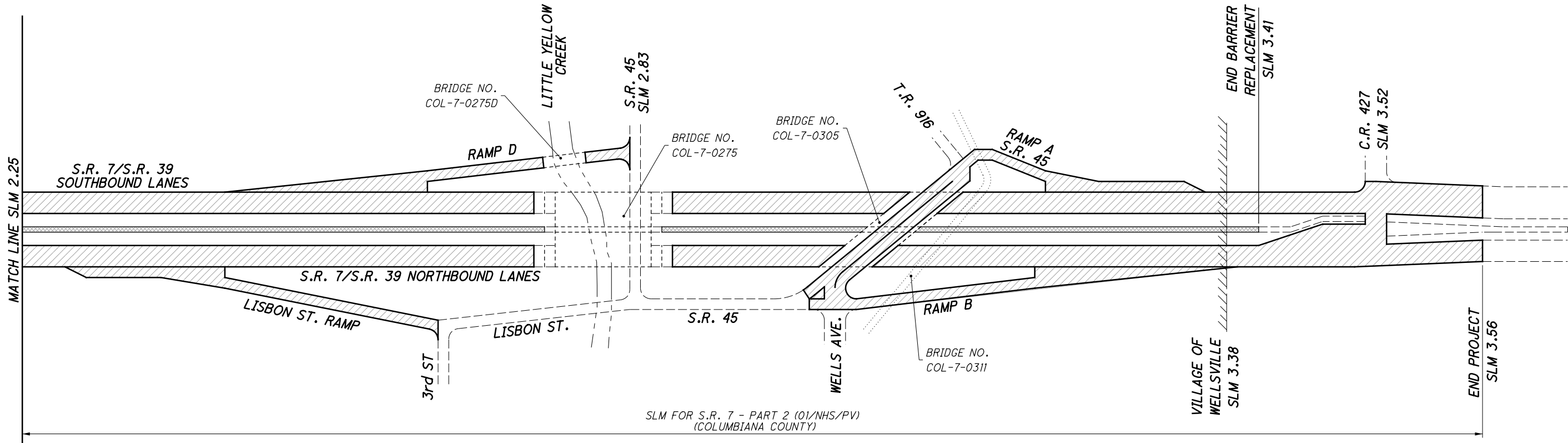
SHEET NO	DESCRIPTION	254		407	441	442		618	209	408	617	COMMENTS
		PAVEMENT PLANING, ASPHALT CONCRETE (1-1/2")	PAVEMENT PLANING, ASPHALT CONCRETE (VARIES)	NON-TRACKING TACK COAT	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), AS PER PLAN (PG70-22M)	ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE B (447), AS PER PLAN	ANTI-SEGREGATION EQUIPMENT	RUMBLE STRIPS, SHOULDER (ASPHALT CONCRETE)	LINEAR GRADING	PRIME COAT, AS PER PLAN @ 0.40 GAL/SY	2" COMPACTED AGGREGATE (2' WIDTH)	
		SQ YD	SQ YD	GAL	CU YD	CU YD	CU YD	FT	MILE	GALLON	CU YD	
19	S.R. 7 NORTHBOUND PAVEMENT	45,120	1,120	4,326		2195	2195					PART 1 (01/NHS/PV)
		56,621		4,811		2359	2359					PART 2 (01/NHS/PV)
20	S.R. 7 SOUTHBOUND PAVEMENT	45,583	1,120	4,325		2192	2192					PART 1 (01/NHS/PV)
		55,989		4,758		2333	2333					PART 2 (01/NHS/PV)
21	S.R. 7 RAMPS	25,686		2,181		1071						PART 2 (01/NHS/PV)
23	S.R. 7 NORTHBOUND SHOULDERS	17,489	500	1,720		877		18,055	3.23	1514	209	PART 1 (01/NHS/PV)
		27,920		2,375		1165		32,472	3.55	1666	228	PART 2 (01/NHS/PV)
24	S.R. 7 SOUTHBOUND SHOULDERS	17,406	500	1,703		865		17,897	3.21	1506	209	PART 1 (01/NHS/PV)
		28,196		2,397		1177		32,419	3.43	1609	224	PART 2 (01/NHS/PV)
25	S.R. 7 RAMP SHOULDERS	10,910		948		463			2.11	992	138	PART 2 (01/NHS/PV)
MAINLINE SUBTOTAL		330,920	3,240	29,544		14,697	9,079	100,843	15.53	7,287	1,008	PART 1 & PART 2 (01/NHS/PV)
22	PARK & RIDE SUBTOTAL	1,315		112	55				0.10	49	7	PART 3 (02/NFA/PV)
	REST AREA SUBTOTAL	4,074		346	170							PART 4 (03/NFA/PV)
TOTALS CARRIED TO GENERAL SUMMARY		336,309	3,240	30,002	225	14,697	9,079	100,843	15.63	7,336	1,015	

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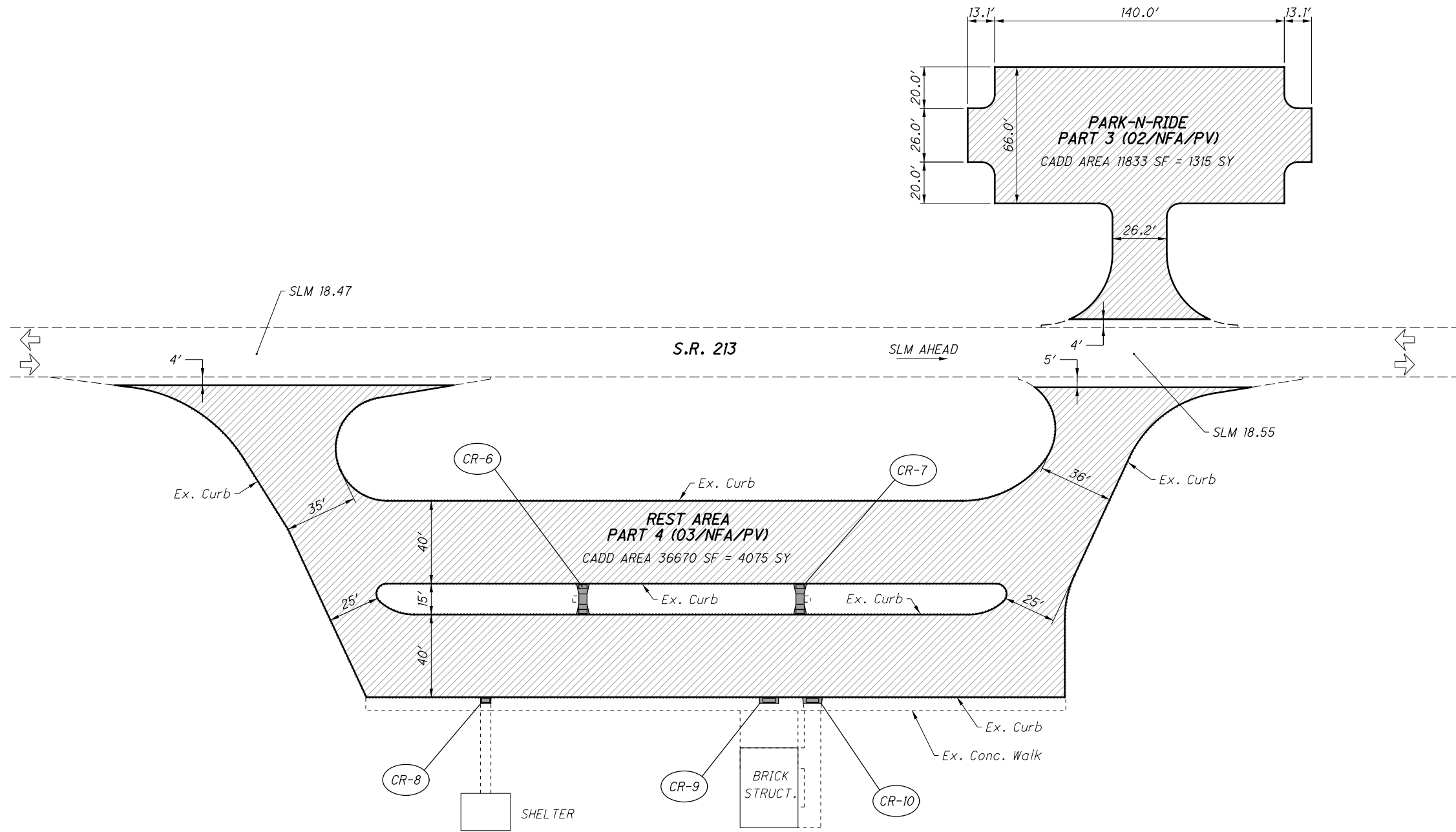




FOR LEGEND, SEE SHEET 11  
FOR CURB RAMP DETAILS AND QUANTITIES, SEE SHEET 39



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FOR LEGEND, SEE SHEET 11  
FOR CURB RAMP DETAILS AND QUANTITIES, SEE SHEET 39

		PAVEMENT DETAILS	
		CALCULATED SAH	CHECKED DAH
S.R. 213 - REST AREA AND PARK-N-RIDE		JEF / COL-7 - 31.13 / 0.00	
			

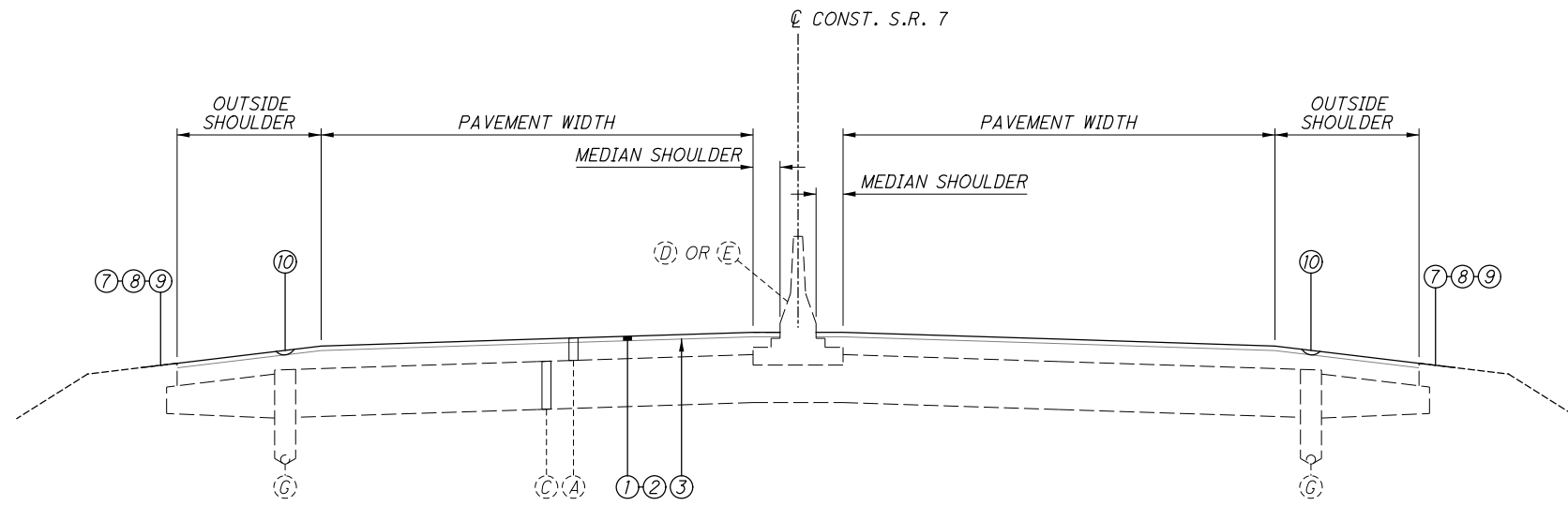
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### EXISTING LEGEND

- (A) - EXISTING ASPHALT PAVEMENT
- (B) - EXISTING CONCRETE PAVEMENT
- (C) - EXISTING SUBBASE
- (D) - EXISTING MEDIAN BARRIER
- (E) - EXISTING RAISED MEDIAN
- (F) - EXISTING CONCRETE CURB
- (G) - EXISTING UNDERDRAIN

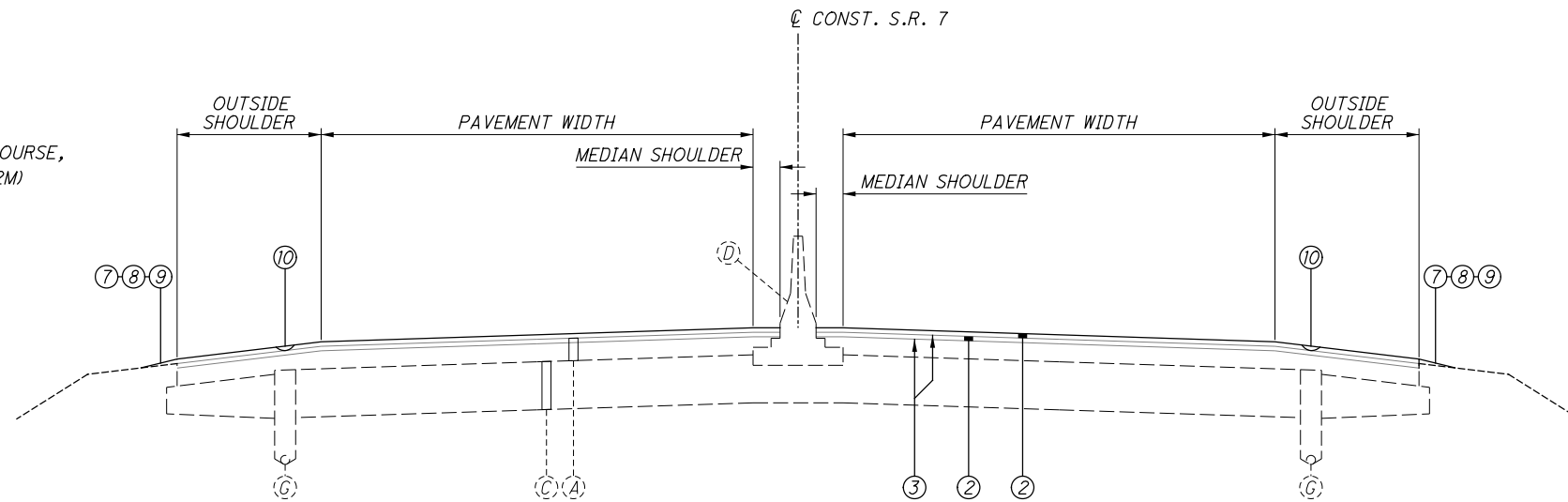
### PROPOSED LEGEND

- ① - ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE (1-1/2")
- ② - ITEM 442 - 1-1/2" ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE B, (447), AS PER PLAN
- ③ - ITEM 407 - NON-TRACKING TACK COAT
- ④ - NOT USED
- ⑤ - ITEM 622 - CONCRETE BARRIER, SINGLE SLOPE, TYPE B1
- ⑥ - ITEM 202 - CONCRETE BARRIER REMOVED
- ⑦ - ITEM 209 - LINEAR GRADING
- ⑧ - ITEM 408 - PRIME COAT, AS PER PLAN
- ⑨ - ITEM 617 - 2" COMPACTED AGGREGATE (2' WIDTH)
- ⑩ - ITEM 618 - RUMBLE STRIPS, (ASPHALT CONCRETE)
- ⑪ - ITEM 304 - 6" AGGREGATE BASE
- ⑫ - ITEM 305 - 9" CONCRETE BASE, QC 1P
- ⑬ - ITEM 441 - 1-1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), AS PER PLAN (PG70-22M)



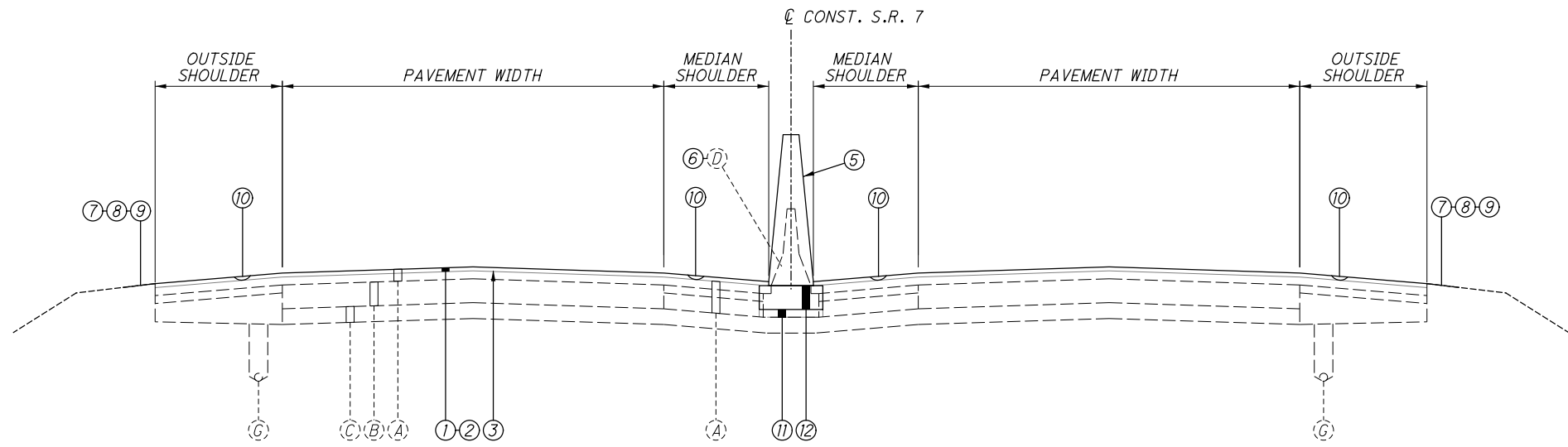
TYPICAL SECTION 1

FOR MAINLINE PAVEMENT WIDTHS, SEE SHEET 19 - 20  
FOR MAINLINE OUTSIDE AND MEDIAN SHOULDER WIDTHS, SEE SHEET 23 - 24



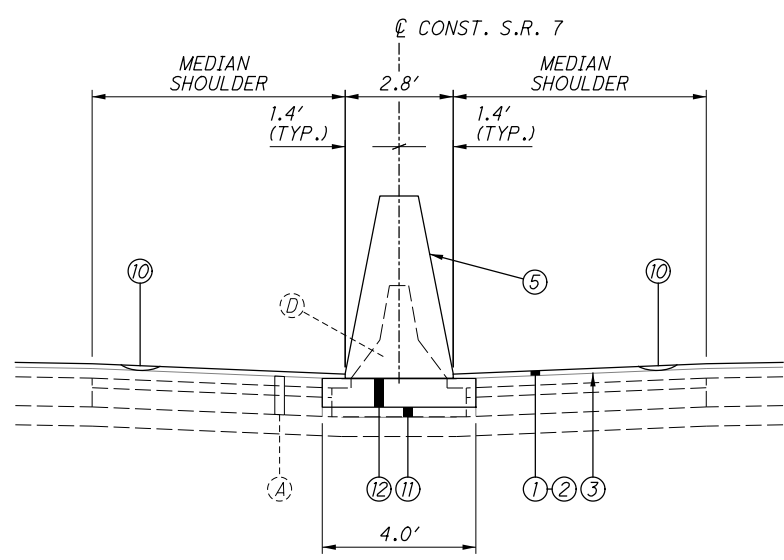
TYPICAL SECTION 2

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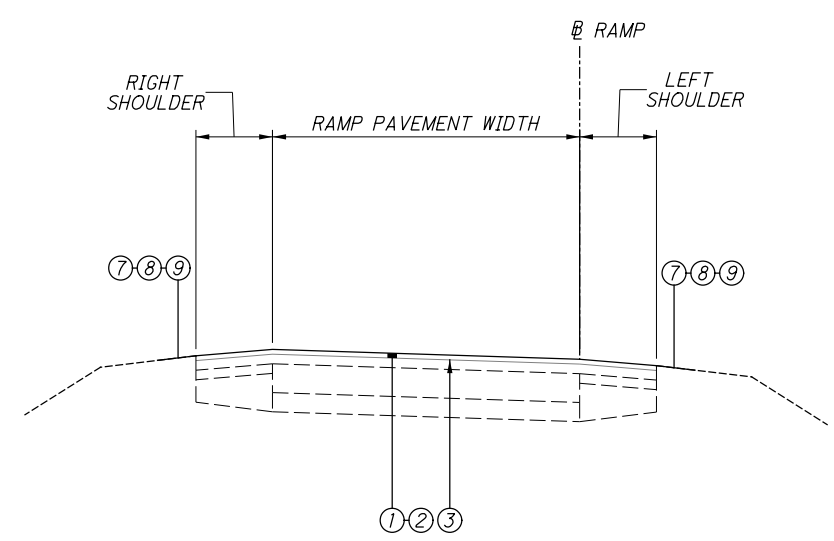


**TYPICAL SECTION 3**

FOR LEGEND SEE SHEET 15  
FOR MAINLINE PAVEMENT WIDTHS, SEE SHEET 19 - 20  
FOR MAINLINE OUTSIDE AND MEDIAN SHOULDER WIDTHS,  
SEE SHEET 23 - 24  
FOR RAMP PAVEMENT WIDTHS, SEE SHEET 21  
FOR RAMP SHOULDER WIDTHS, SEE SHEET 25

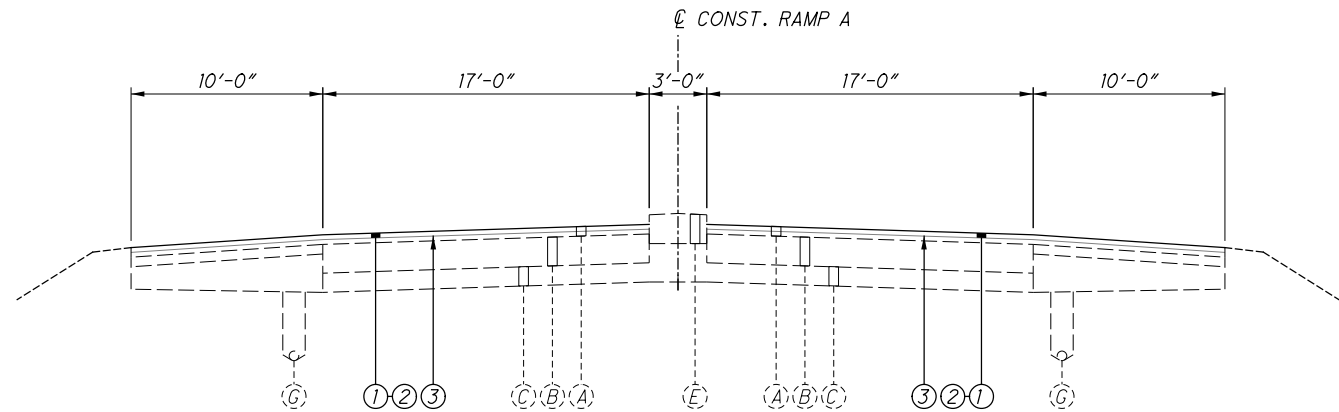


**MEDIAN BARRIER DETAIL**



**RAMP TYPICAL**  
(IN DIRECTION OF TRAVEL)

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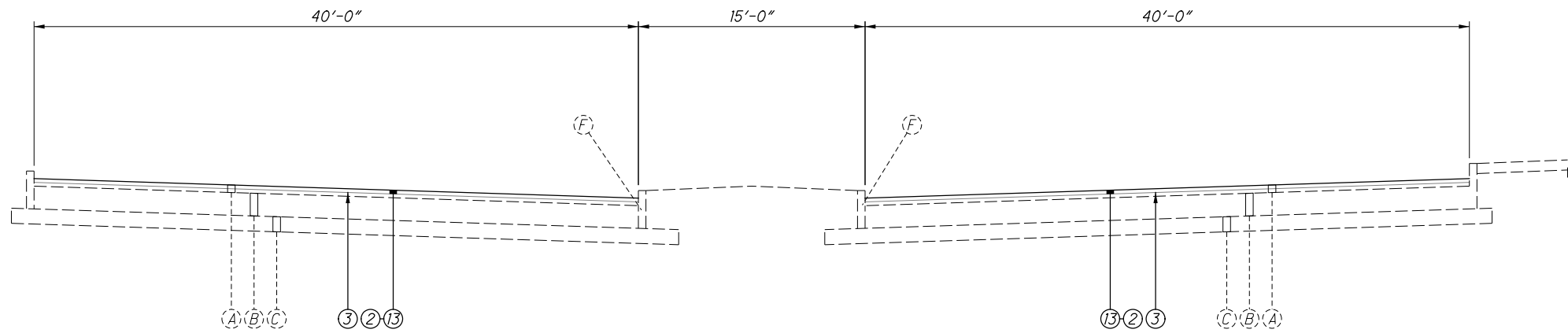


**TYPICAL SECTION 6**

RAMP A/CLARK ST.

FOR LEGEND SEE SHEET 15

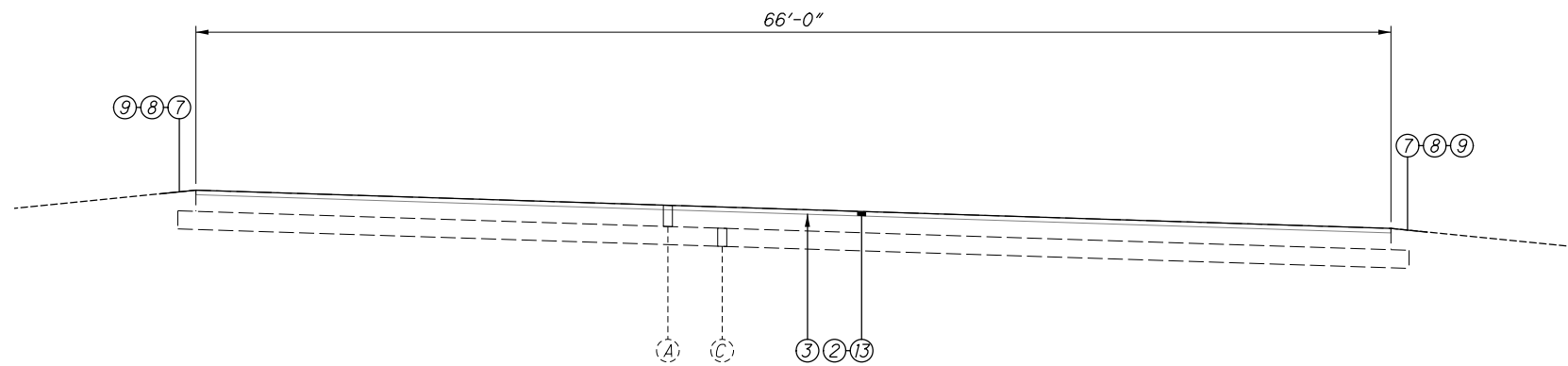
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**TYPICAL SECTION 4**

REST AREA

FOR LEGEND SEE SHEET 15  
FOR REST AREA AND PARK AND RIDE QUANTITIES, SEE SHEET 22



**TYPICAL SECTION 5**

PARK AND RIDE



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LOCATION	SLM		LENGTH		PAVEMENT WIDTH	TYPICAL	PAVEMENT AREA  * Denotes CADD Area  SQ YD	254			407			442			REMARKS	
								IN.	PAVEMENT PLANING, ASPHALT CONCRETE (1-1/2")  SQ YD	PAVEMENT PLANING, ASPHALT CONCRETE (VARIES)  SQ YD	NON-TRACKING TACK COAT			IN.	ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE B, (447) AS PER PLAN  CU YD	ANTI-SEGREGATION EQUIPMENT  CU YD		
	0.085 GAL/S.Y.	0.070 GAL/S.Y.	0.055 GAL/S.Y.															
	FROM	TO	MILE	FT	FT													
STRUCTURE JEF-7-3103																	BEGIN WORK AT FORWARD ABUTMENT JOINT	
	31.13	33.43	2.30	12,144.00	24.00	1	32,384	1 1/2	32,384		2,753			1 1/2	1349	1349		
	33.43	33.45	0.02	105.00	24.00	2	280	VAR		280	24		15	3	23	23	TRANSITION TO STRUCTURE (SEE SHEET 28)	
STRUCTURE JEF-7-3346	33.45	33.50	0.05	264.00	24.00	2	704					49	39	3	59	59	ASPHALT TREATMENT OVER STRUCTURE (SEE SHEET 28 - 29)	
	33.50	33.52	0.02	105.00	24.00	2	280	VAR		280	24		15	3	23	23	TRANSITION TO STRUCTURE (SEE SHEET 28)	
	33.52	33.60	0.08	422.40	24.00	1	1,126	1 1/2	1,126		96			1 1/2	47	47		
	33.60	33.68	0.08	422.40	30.00	1	1,408	1 1/2	1,408		120			1 1/2	59	59	LEFT TURN LANE TAPER	
S.R. 213 INTERSECTION	33.68	33.70	0.02	105.60	38.50	1	452	1 1/2	452		38			1 1/2	19	19	MEDIAN BREAK	
	33.70	33.79	0.09	475.20	30.00	1	1,584	1 1/2	1,584		135			1 1/2	66	66	LANE TAPER	
	33.79	33.81	0.02	105.00	24.00	2	280	VAR		280	24		15	3	23	23	TRANSITION TO STRUCTURE (SEE SHEET 28)	
STRUCTURE JEF-7-3380	33.81	33.95	0.14	739.20	24.00	2	1,971					138	108	3	164	164	ASPHALT TREATMENT OVER STRUCTURE (SEE SHEET 28, 30)	
	33.95	33.97	0.02	105.00	24.00	2	280	VAR		280	24		15	3	23	23	TRANSITION TO STRUCTURE (SEE SHEET 28)	
JEFFERSON COUNTY LINE (BACK)	33.97	34.55	0.58	3,062.40	24.00	1	8,166	1 1/2	8,166		694			1 1/2	340	340		
MAINLINE PAVEMENT SUBTOTAL CARRIED TO SHEET 10									45.120	1.120	3.932	187	207		2.195	2.195	PART 1 (01/ NHS/ PV)	
COLUMBIANA COUNTY LINE (AHEAD)	0.00	0.82	0.82	4,329.60	24.00	1 & 3	11,546	1 1/2	11,546		981			1 1/2	481	481		
NB RAMP 'B' DECELERATION LANE					VARIES	RAMP	1,337.00*	1 1/2	1,337		114			1 1/2	56	56		
NB RAMP 'C' ACCELERATION LANE					VARIES	RAMP	675.46*	1 1/2	675		57			1 1/2	28	28		
	0.82	1.01	0.19	1,003.20	36.00	3	4,013	1 1/2	4,013		341			1 1/2	167	167		
	1.01	1.27	0.26	1,372.80	24.00	3	3,661	1 1/2	3,661		311			1 1/2	153	153		
NB RAMP 'C' DECELERATION LANE					VARIES	RAMP	779.20*	1 1/2	779		66			1 1/2	32	32		
STRUCTURE COL-7-0127																	BUTT JOINT & OMIT PAVING ON STRUCTURE	
NB RAMP 'B' ACCELERATION LANE					VARIES	RAMP	1,556.00*	1 1/2	1,556		132			1 1/2	65	65		
	1.29	1.94	0.65	3,432.00	24.00	3	9,152	1 1/2	9,152		778			1 1/2	381	381		
STRUCTURE COL-7-0193																	BUTT JOINT & OMIT PAVING ON STRUCTURE	
	1.95	2.73	0.78	4,118.40	24.00	3	10,982	1 1/2	10,982		933			1 1/2	458	458	BUTT JOINT AT CONCRETE	
NB LISBON ST. RAMP DECEL. LANE					VARIES	RAMP	1,329.50*	1 1/2	1,330		113			1 1/2	55	55		
STRUCTURE COL-7-0275																	OMIT PAVING ON STRUCTURE & APPROACH SLABS	
	2.85	3.06	0.21	1,108.80	24.00	3	2,957	1 1/2	2,957		251			1 1/2	123	123	BUTT JOINT AT CONCRETE	
STRUCTURE COL-7-0305																	BUTT JOINT & OMIT PAVING ON STRUCTURE	
	3.09	3.41	0.32	1,689.60	24.00	3	4,506	1 1/2	4,506		383			1 1/2	188	188	N. CORP. WELLSVILLE @ SLM 3.38	
NB RAMP 'B' ACCELERATION LANE					VARIES	RAMP	1,389.78*	1 1/2	1,390		118			1 1/2	58	58		
	3.41	3.48	0.07	369.60	30.00	3	1,232	1 1/2	1,232		105			1 1/2	51	51		
	3.48	3.51	0.03	158.40	36.00	3	634	1 1/2	634		54			1 1/2	26	26		
C.R. 427 INTERSECTION	3.51	3.53	0.02	105.60	38.23	3	449	1 1/2	449		38			1 1/2	19	19		
	3.53	3.56	0.03	158.40	24.00	3	422	1 1/2	422		36			1 1/2	18	18	END AT JOINT	
MAINLINE PAVEMENT SUBTOTAL CARRIED TO SHEET 10									56.621		4.811				2.359	2.359	PART 2 (01/ NHS/ PV)	

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LOCATION	SLM		LENGTH		PAVEMENT WIDTH	TYPICAL	PAVEMENT AREA  * Denotes CADD Area	254			407			442			REMARKS	
								IN.	PAVEMENT PLANING, ASPHALT CONCRETE (1-1/2")	PAVEMENT PLANING, ASPHALT CONCRETE (VARIES)	NON-TRACKING TACK COAT			IN.	ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE B (447), AS PER PLAN	ANTI-SEGREGATION EQUIPMENT		
	SQ YD	SQ YD	GAL	GAL							GAL	CU YD	CU YD					
	FROM	TO	MILE	FT	FT		SQ YD											
SOUTHBOUND S.R. 7																		
STRUCTURE JEF-7-3106																	BEGIN WORK AT FORWARD ABUTMENT JOINT	
	31.13	33.44	2.31	12,196.80	24.00	1	32,525	1 1/2	32,525		2,765			1 1/2	1355	1355		
	33.44	33.46	0.02	105.00	24.00	3	280	VAR		280	24		15	3	23	23	TRANSITION TO STRUCTURE (SEE SHEET 28)	
STRUCTURE JEF-7-3346	33.46	33.51	0.05	264.00	24.00	3	704					49	39	3	59	59	ASPHALT TREATMENT OVER STRUCTURE (SEE SHEET 28 - 29)	
	33.51	33.53	0.02	105.00	24.00	3	280	VAR		280	24		15	3	23	23	TRANSITION TO STRUCTURE (SEE SHEET 28)	
	33.53	33.68	0.15	792.00	24.00	1	2,112	1 1/2	2,112		180			1 1/2	88	88		
S.R. 213 INTERSECTION	33.68	33.70	0.02	105.60	36.00	1	422	1 1/2	422		36			1 1/2	18	18	MEDIAN BREAK	
	33.70	33.74	0.04	211.20	36.00	1	845	1 1/2	845		72			1 1/2	35	35	RIGHT TURN LANE	
	33.74	33.77	0.03	158.40	30.00	1	528	1 1/2	528		45			1 1/2	22	22	RIGHT TURN TRANSITION	
	33.77	33.78	0.01	52.80	24.00	1	141	1 1/2	141		12			1 1/2	6	6		
	33.78	33.80	0.02	105.00	24.00	3	280	VAR	280	280	24		15	3	23	23	TRANSITION TO STRUCTURE (SEE SHEET 28)	
STRUCTURE JEF-7-3380	33.80	33.93	0.13	686.40	24.00	3	1,830					128	101	3	153	153	ASPHALT TREATMENT OVER STRUCTURE (SEE SHEET 28, 30)	
	33.93	33.95	0.02	105.00	24.00	3	280	VAR		280	24		15	3	23	23	TRANSITION TO STRUCTURE (SEE SHEET 28)	
JEFFERSON COUNTY LINE (BACK)	33.93	34.55	0.62	3,273.60	24.00	1	8,730	1 1/2	8,730		742			1 1/2	364	364		
MAINLINE PAVEMENT SUBTOTAL CARRIED TO SHEET 10									45.583	1.120	3.948	177	200		2.192	2.192	PART 1 (01/ NHS/ PV)	
COLUMBIANA COUNTY LINE (AHEAD)	0.00	0.92	0.92	4,857.60	24.00	1 & 3	12,954	1 1/2	12,954		1,101			1 1/2	540	540		
SB RAMP 'A' ACCELERATION LANE					VARIES	RAMP	1,405.17*	1 1/2	1,405		119			1 1/2	59	59		
SB RAMP 'D' DECELERATION LANE					VARIES	RAMP	650.64*	1 1/2	651		55			1 1/2	27	27		
	0.92	1.02	0.10	528.00	36.00	1	2,112	1 1/2	2,112		180			1 1/2	88	88		
	1.02	1.27	0.25	1,320.00	24.00	1	3,520	1 1/2	3,520		299			1 1/2	147	147		
SB RAMP 'D' ACCELERATION LANE					VARIES	RAMP	1,127.60*	1 1/2	1,128		96			1 1/2	47	47		
STRUCTURE COL-7-0127																	BUTT JOINT & OMIT PAVING ON STRUCTURE	
SB RAMP 'A' DECELERATION LANE					VARIES	RAMP	1,304.56*	1 1/2	1,305		111			1 1/2	54	54		
	1.29	1.94	0.65	3,432.00	24.00	1	9,152	1 1/2	9,152		778			1 1/2	381	381		
STRUCTURE COL-7-0193																	BUTT JOINT & OMIT PAVING ON STRUCTURE	
	1.95	2.73	0.78	4,118.40	24.00	1	10,982	1 1/2	10,982		933			1 1/2	458	458	BUTT JOINT AT CONCRETE	
SB RAMP 'D' ACCELERATION LANE					VARIES	RAMP	1,464.44*	1 1/2	1,464		124			1 1/2	61	61		
STRUCTURE COL-7-0275																	OMIT PAVING ON STRUCTURE & APPROACH SLABS	
	2.85	3.06	0.21	1,108.80	24.00	1	2,957	1 1/2	2,957		251			1 1/2	123	123	BUTT JOINT AT CONCRETE	
STRUCTURE COL-7-0305																	BUTT JOINT & OMIT PAVING ON STRUCTURE	
SB RAMP 'A' DECELERATION LANE					VARIES	RAMP	1,389.78*	1 1/2	1,390		118			1 1/2	58	58		
	3.09	3.51	0.42	2,217.60	24.00	1	5,914	1 1/2	5,914		503			1 1/2	246	246	END AT N. CORP. WELLSVILLE @ SLM 3.38	
C.R. 427 INTERSECTION	3.51	3.53	0.02	105.60	36.00	1	422	1 1/2	422		36			1 1/2	18	18	END AT JOINT	
	3.53	3.56	0.03	158.40	36.00	1	634	1 1/2	634		54			1 1/2	26	26	END AT JOINT	
MAINLINE PAVEMENT SUBTOTAL CARRIED TO SHEET 10									55.989		4.758				2.333	2.333	PART 2 (01/ NHS/ PV)	

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LOCATION		SLM		LENGTH		PAVEMENT WIDTH	TYPICAL	PAVEMENT AREA  * Denotes CADD Area	254		407			442			REMARKS	
									IN.	PAVEMENT PLANING, ASPHALT CONCRETE (1-1/2")	NON-TRACKING TACK COAT @ 0.085 GAL./S.Y.			IN.	ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE B (447), AS PER PLAN			
		SQ YD	GAL	CU YD														
CLARK ST. INTERCHANGE	SB RAMP 'A'	0.37	0.58		1,067.77	16.00	RAMP	1,898.26	1 1/2	1,898	161			1 1/2	79			
	SB RAMP 'A' TO STRUCTURE	0.58				VARIES	RAMP	119.95*	1 1/2	120	10			1 1/2	5		INCLUDE SHOULDER	
	STRUCTURE COL-7-0058																	
	SB RAMP 'A' TO MEDIAN ISLAND	0.63	0.70		347.30	37.00	RAMP	1,427.79	1 1/2	1,428	121			1 1/2	59			
	NB RAMP 'B' ACCELERATION LANE (RAMP A)	0.68	0.79			VARIES	RAMP	673.36*	1 1/2	673	57			1 1/2	28			
	SB RAMP 'A' WITH MEDIAN ISLAND	0.70	0.80		570.00	34.00	RAMP	2,153.33	1 1/2	2,153	183			1 1/2	90			
	NB RAMP 'B'	0.54	0.66		624.58	16.00	RAMP	1,110.36	1 1/2	1,110	94			1 1/2	46			
	NB RAMP 'C' RETURNS	0.67	0.70			VARIES	RAMP	508.37*	1 1/2	508	43			1 1/2	21			
	NB RAMP 'C'	0.70	0.74		231.00	16.00	RAMP	410.67	1 1/2	411	35			1 1/2	17			
	SB RAMP 'D' RETURNS	0.56	0.57			VARIES	RAMP	240.87*	1 1/2	241	20			1 1/2	10		INCLUDE SHOULDER	
SB RAMP 'D'	0.57	0.66		503.02	24.00	RAMP	1,341.39	1 1/2	1,341	114			1 1/2	56				
SB RAMP 'D'	0.66	0.87		1,093.00	16.00	RAMP	1,943.11	1 1/2	1,943	165			1 1/2	81				
S.R. 39 INTERCHANGE	SB RAMP 'A' RETURNS	1.26	1.27			VARIES	RAMP	209.12*	1 1/2	209	18			1 1/2	9			
	SB RAMP 'A'	1.27	1.40		699.14	16.00	RAMP	1,242.92	1 1/2	1,243	106			1 1/2	52			
	NB RAMP 'B' RETURNS	1.28	1.29			VARIES	RAMP	201.19*	1 1/2	201	17			1 1/2	8			
	NB RAMP 'B'	1.29	1.43		726.43	16.00	RAMP	1,291.43	1 1/2	1,291	110			1 1/2	54			
	NB RAMP 'C'	1.16	1.27		573.71	16.00	RAMP	1,019.93	1 1/2	1,020	87			1 1/2	42			
	NB RAMP 'C' RETURNS	1.27	1.28			VARIES	RAMP	246.67*	1 1/2	247	21			1 1/2	10			
SB RAMP 'D'	1.12	1.26		716.97	16.00	RAMP	1,274.61	1 1/2	1,275	108			1 1/2	53				
SB RAMP 'D' RETURNS	1.26	1.27			VARIES	RAMP	349.05*	1 1/2	349	30			1 1/2	15				
S.R. 45 INTERCHANGE	SB RAMP 'A' TO WELLS AVE.	3.01	3.03		153.17	12.00	RAMP	204.23	1 1/2	204	17			1 1/2	9			
	SB RAMP 'A' SPLIT	3.03	3.05			VARIES	RAMP	227.21*	1 1/2	227	19			1 1/2	9		INCLUDE SHOULDER	
	SB RAMP 'A' RIGHT DROP OUT LANE	3.05	3.08		193.76	24.00	RAMP	516.69	1 1/2	517	44			1 1/2	22		INCLUDE SHOULDER	
	SB RAMP 'A'	3.08	3.21		670.76	16.00	RAMP	1,192.46	1 1/2	1,192	101			1 1/2	50			
	TR 916 ACCESS RETURN					VARIES	RAMP	132.48*	1 1/2	132	11			1 1/2	6		INCLUDE SHOULDER	
	TR 916 ACCESS UNDER SR 7				165.03	16.00	RAMP	293.39	1 1/2	293	25			1 1/2	12			
	TR 916 CROSSING RETURN					VARIES	RAMP	150.78*	1 1/2	151	13			1 1/2	6		INCLUDE SHOULDER	
	NB RAMP 'B' BIDIRECTIONAL	3.02	3.06		145.58	26.00	RAMP	420.56	1 1/2	421	36			1 1/2	18			
	NB RAMP 'B'	3.06	3.20		802.80	16.00	RAMP	1,427.20	1 1/2	1,427	121			1 1/2	59			
	NB LISBON ST. RAMP	2.45	2.63		974.29	16.00	RAMP	1,732.07	1 1/2	1,732	147			1 1/2	72			
	NB LISBON ST. RETURNS	2.63	2.65			VARIES	RAMP	229.74*	1 1/2	230	20			1 1/2	10			
SB RAMP 'D'	2.63	2.74		533.71	16.00	RAMP	948.82	1 1/2	949	81			1 1/2	40				
STRUCTURE COL-7-0275 D																BUTT JOINT & OMIT PAVING ON STRUCTURE		
SB RAMP 'D'	2.78	2.80		80.39	16.00	RAMP	142.92	1 1/2	143	12			1 1/2	6				
SB RAMP 'D' RETURNS	2.80	2.81			VARIES	RAMP	405.39*	1 1/2	405	34			1 1/2	17				
RAMP PAVEMENT SUBTOTAL CARRIED TO SHEET NO. 10										25,686	2,181				1,071		PART 2 (01/ NHS / PV)	

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LOCATION	SLM		LENGTH		PAVEMENT WIDTH	TYPICAL	PAVEMENT AREA  * Denotes CADD Area	254		407			441		209	408	617	REMARKS
								IN.	PAVEMENT PLANING, ASPHALT CONCRETE (1-1/2')	NON-TRACKING TACK COAT @ 0.085 GAL./S.Y.			IN.	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), AS PER PLAN (PG70-22M)	LINEAR GRADING	PRIME COAT, AS PER PLAN @ 0.40 GAL/SY	2" COMPACTED AGGREGATE (2' WIDTH)	
	FROM	TO	MILE	FT	FT	SQ YD	SQ YD				GAL	CU YD						
PARK AND RIDE - S.R. 213																		
PAVEMENT AREA						5	1,315*	1 1/2	1,315	112			1 1/2	55	0.10	49	7	
PARK AND RIDE PAVEMENT SUBTOTAL CARRIED TO SHEET 10									1.315	112				55	0.10	49	7	PART 3 (02/NFA/PV)
REST AREA - S.R. 213																		
PAVEMENT AREA						4	4,074*	1 1/2	4,074	346			1 1/2	170				
REST AREA PAVEMENT SUBTOTAL CARRIED TO SHEET 10									4.074	346				170				PART 4 (03/NFA/PV)

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LOCATION	SLM		LENGTH		SHOULDER WIDTH		TYPICAL	PAVEMENT AREA  * Denotes CADD Area	254			407			442		618	209	408	617	REMARKS
					OUTSIDE SHOULDER	MEDIAN SHOULDER			IN.	PAVEMENT PLANING, ASPHALT CONCRETE (1-1/2")	PAVEMENT PLANING, ASPHALT CONCRETE (VARIES)	NON-TRACKING TACK COAT			IN.	ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE B (447), AS PER PLAN	RUMBLE STRIPS, SHOULDER (ASPHALT CONCRETE)	LINEAR GRADING	PRIME COAT, AS PER PLAN @ 0.40 GAL/SY	2" COMPACTED AGGREGATE (2' WIDTH)	
	FROM	TO	MILE	FT								FT	FT	SQ YD							
NORTHBOUND S.R. 7																					
	31.13	33.43	2.30	12,144.00	8.00	1.50	1	12,819	1 1/2	12,819		1,090			1 1/2	534	12144.00	2.30	1079	150	RUMBLE STRIPS OUTSIDE
	33.43	33.45	0.02	105.00	9.25	1.50	2	125	VAR		125	11		7	3	10	105.00	0.02	9	1	TRANSITION TO STRUCTURE (SEE SHEET 28)
STRUCTURE JEF-7-3346	33.45	33.50	0.05	264.00	10.50	1.00	2	337					24	19	3	28	264.00				ASPHALT TREATMENT OVER STRUCTURE (SEE SHEET 28 - 29)
	33.50	33.52	0.02	105.00	9.25	1.50	2	125	VAR		125	11		7	3	10	105.00	0.02	9	1	TRANSITION TO STRUCTURE (SEE SHEET 28)
	33.52	33.60	0.08	422.40	8.00	1.50	1	446	1 1/2	446		38			1 1/2	19	422.40	0.08	38	5	RUMBLE STRIPS OUTSIDE
	33.60	33.68	0.08	422.40	8.00	1.00	1	422	1 1/2	422		36			1 1/2	18	422.40	0.08	38	5	RUMBLE STRIPS OUTSIDE
S.R. 213 INTERSECTION	33.68	33.70	0.02	105.60	8.00		1	94	1 1/2	94		8			1 1/2	4	105.60	0.02	9	1	RUMBLE STRIPS OUTSIDE
	33.70	33.79	0.09	475.20	8.00	1.00	1	475	1 1/2	475		40			1 1/2	20	475.20	0.09	42	6	RUMBLE STRIPS OUTSIDE
	33.79	33.81	0.02	105.00	9.25	1.50	2	125	VAR		125	11		7	3	10	105.00	0.02	9	1	TRANSITION TO STRUCTURE (SEE SHEET 28)
STRUCTURE JEF-7-3380	33.81	33.95	0.14	739.20	10.50	1.00	2	945					66	52	3	79	739.20				ASPHALT TREATMENT OVER STRUCTURE (SEE SHEET 28, 30)
	33.95	33.97	0.02	105.00	9.25	1.50	2	125	VAR		125	11		7	3	10	105.00	0.02	9	1	TRANSITION TO STRUCTURE (SEE SHEET 28)
JEFFERSON CO. LINE (BACK)	33.97	34.55	0.58	3,062.40	8.00	1.50	1	3,233	1 1/2	3,233		275			1 1/2	135	3062.40	0.58	272	38	RUMBLE STRIPS OUTSIDE
SHOULDER PAVEMENT SUBTOTAL CARRIED TO SHEET 10										17.489	500	1,531	90	99		877	18,055	3.23	1,514	209	PART 1 (01/ NHS / PV)
COLUMBIANA CO. LINE (AHD)	0.00	0.36	0.36	1,900.80	8.00	1.50	1	2,006	1 1/2	2,006		171			1 1/2	84	1900.80	0.36	169	23	RUMBLE STRIPS OUTSIDE
	0.36	0.38	0.02	105.60	8.00		3	94	1 1/2	94		8			1 1/2	4	105.60	0.02	9	1	RUMBLE STRIPS OUTSIDE
RAMP B TERMINAL	0.38	0.54	0.16	844.80	8.00		3	751	1 1/2	751		64			1 1/2	31	844.80	0.16	75	10	RUMBLE STRIPS OUTSIDE
MEDIAN SIDE	0.36	0.46	0.10	495.07		4.13	3	227	1 1/2	227		19			1 1/2	9		0.09	44	6	RUMBLE STRIPS OUTSIDE
	0.46	0.54	0.08	422.40		6.75	3	317	1 1/2	317		27			1 1/2	13	422.40	0.08	38	5	RUMBLE STRIPS BOTH SIDES
	0.54	0.59	0.05	264.00	8.00	6.75	3	433	1 1/2	433		37			1 1/2	18	528.00	0.05	23	3	RUMBLE STRIPS BOTH SIDES
	0.59	0.61	0.02	105.60	10.00	6.75	3	197	1 1/2	197		17			1 1/2	8	211.20	0.02	9	1	RUMBLE STRIPS BOTH SIDES
	0.61	0.74	0.13	686.40	8.00	6.75	3	1,125	1 1/2	1,125		96			1 1/2	47	1372.80	0.13	61	8	RUMBLE STRIPS BOTH SIDES
RAMP C TERMINAL	0.74	0.82	0.08	422.40	8.00	6.75	3	692	1 1/2	692		59			1 1/2	29	844.80	0.08	38	5	RUMBLE STRIPS BOTH SIDES
	0.82	1.01	0.19	1,003.20	10.00	6.75	3	1,867	1 1/2	1,867		159			1 1/2	78	2006.40	0.19	89	12	RUMBLE STRIPS BOTH SIDES
	1.01	1.09	0.08	422.40	8.00	6.75	3	692	1 1/2	692		59			1 1/2	29	844.80	0.08	38	5	RUMBLE STRIPS BOTH SIDES
RAMP C TERMINAL	1.09	1.15	0.06	316.80	8.00	6.75	3	519	1 1/2	519		44			1 1/2	22	633.60	0.06	28	4	RUMBLE STRIPS BOTH SIDES
	1.15	1.27	0.12	633.60	8.00	6.75	3	1,038	1 1/2	1,038		88			1 1/2	43	1267.20	0.12	56	8	RUMBLE STRIPS BOTH SIDES
STRUCTURE COL-7-0127																					
	1.29	1.43	0.14	739.20	8.00	6.75	3	1,211	1 1/2	1,211		103			1 1/2	50	1478.40	0.14	66	9	RUMBLE STRIPS BOTH SIDES
RAMP B TERMINAL	1.43	1.61	0.18	950.40	8.00	6.75	3	1,558	1 1/2	1,558		132			1 1/2	65	1900.80	0.18	84	12	RUMBLE STRIPS BOTH SIDES
	1.61	1.94	0.33	1,742.40	8.00	6.75	3	2,856	1 1/2	2,856		243			1 1/2	119	3484.80	0.33	155	22	RUMBLE STRIPS BOTH SIDES
STRUCTURE COL-7-0193																					
	1.95	2.29	0.34	1,795.20	8.00	6.75	3	2,942	1 1/2	2,942		250			1 1/2	123	3590.40	0.34	160	22	RUMBLE STRIPS BOTH SIDES
LISBON ST RAMP TERMINAL	2.29	2.44	0.15	792.00	8.00	6.75	3	1,298	1 1/2	1,298		110			1 1/2	54	1584.00	0.15	70	10	RUMBLE STRIPS BOTH SIDES
	2.44	2.73	0.29	1,531.20	8.00	6.75	3	2,509	1 1/2	2,509		213			1 1/2	105	3062.40	0.29	136	19	RUMBLE STRIPS BOTH SIDES
STRUCTURE COL-7-0275																					
	2.85	3.06	0.21	1,108.80	8.00	6.75	3	1,817	1 1/2	1,817		154			1 1/2	76	2217.60	0.21	99	14	RUMBLE STRIPS BOTH SIDES
STRUCTURE COL-7-0305																					
	3.09	3.20	0.11	580.80	8.00	6.75	3	952	1 1/2	952		81			1 1/2	40	1161.60	0.11	52	7	RUMBLE STRIPS BOTH SIDES
RAMP B TERMINAL	3.20	3.39	0.19	1,003.20	8.00	6.75	3	1,644	1 1/2	1,644		140			1 1/2	69	2006.40	0.19	89	12	RUMBLE STRIPS BOTH SIDES
	3.39	3.41	0.02	105.60	8.00	6.75	3	173	1 1/2	173		15			1 1/2	7	211.20	0.02	9	1	RUMBLE STRIPS BOTH SIDES
	3.41	3.43	0.02	105.60	8.00	7.69	3	184	1 1/2	184		16			1 1/2	8	105.60	0.02	9	1	RUMBLE STRIPS OUTSIDE ONLY
	3.43	3.48	0.05	264.00	8.00	4.69	3	372	1 1/2	372		32			1 1/2	16	264.00	0.05	23	3	RUMBLE STRIPS OUTSIDE ONLY
	3.48	3.51	0.03	158.40	8.00	2.00	3	176	1 1/2	176		15			1 1/2	7	158.40	0.03	14	2	RUMBLE STRIPS OUTSIDE ONLY
C.R. 427 INTERSECTION	3.51	3.53	0.02	105.60	8.00		3	94	1 1/2	94		8			1 1/2	4	105.60	0.02	9	1	RUMBLE STRIPS OUTSIDE ONLY
	3.53	3.56	0.03	158.40	8.00	2.00	3	176	1 1/2	176		15			1 1/2	7	158.40	0.03	14	2	RUMBLE STRIPS OUTSIDE ONLY
SHOULDER PAVEMENT SUBTOTAL CARRIED TO SHEET 10										27.920		2,375				1,165	32,472	3.55	1,666	228	PART 2 (01/ NHS / PV)

CALCULATED  
SAH  
CHECKED  
DAH

S.R. 7 - NORTHBOUND SHOULDER DATA

JEF / COL -7 -31.13/ 0.00

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53



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LOCATION	SLM		LENGTH		SHOULDER WIDTH		TYPICAL	PAVEMENT AREA  * Denotes CADD Area	254			407			442		618	209	408	617	REMARKS	
					OUTSIDE SHOULDER	MEDIAN SHOULDER			IN.	PAVEMENT PLANING, ASPHALT CONCRETE (1-1/2")	PAVEMENT PLANING, ASPHALT CONCRETE (VARIES)	NON-TRACKING TACK COAT			IN.	ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE B (447), AS PER PLAN	RUMBLE STRIPS, SHOULDER (ASPHALT CONCRETE)	LINEAR GRADING	PRIME COAT, AS PER PLAN @ 0.40 GAL/SY	2" COMPACTED AGGREGATE (2' WIDTH)		
	FROM	TO	MILE	FT								FT	FT	SQ YD								SQ YD
SOUTHBOUND S.R. 7																						
	31.13	33.44	2.31	12,196.80	8.00	1.50	1	12,874	1 1/2	12,874			1,094			1 1/2	536	12196.80	2.31	1084	151	RUMBLE STRIPS OUTSIDE
	33.44	33.46	0.02	105.00	9.25	1.50	2	125	VAR		125		11		7	3	10	105.00	0.02	9	1	TRANSITION TO STRUCTURE (SEE SHEET 28)
STRUCTURE JEF-7-3346	33.46	33.51	0.05	264.00	10.50	1.00	2	337						24	19	3	28	264.00				ASPHALT TREATMENT OVER STRUCTURE (SEE SHEET 28 - 29)
	33.51	33.53	0.02	105.00	9.25	1.50	2	125	VAR		125		11		7	3	10	105.00	0.02	9	1	TRANSITION TO STRUCTURE (SEE SHEET 28)
	33.53	33.60	0.07	369.60	8.00	1.50	1	390	1 1/2	390			33			1 1/2	16	369.60	0.07	33	5	RUMBLE STRIPS OUTSIDE
	33.60	33.67	0.07	369.60	8.00	1.00	1	370	1 1/2	370			31			1 1/2	15	369.60	0.07	33	5	RUMBLE STRIPS OUTSIDE
	33.67	33.68	0.01	52.80		1.00	1	6	1 1/2	6			1									
S.R. 213 INTERSECTION																						
	33.70	33.78	0.08	422.40	8.00	1.00	1	422	1 1/2	422			36			1 1/2	18	422.40	0.08	38	5	RUMBLE STRIPS OUTSIDE
	33.78	33.80	0.02	105.00	9.25	1.50	2	125	VAR		125		11		7	3	10	105.00	0.02	9	1	TRANSITION TO STRUCTURE (SEE SHEET 28)
STRUCTURE JEF-7-3380	33.80	33.93	0.13	686.40	10.50	1.00	2	877						61	48	3	73	686.40				ASPHALT TREATMENT OVER STRUCTURE (SEE SHEET 28, 30)
	33.93	33.95	0.02	105.00	9.25	1.50	2	125	VAR		125		11		7	3	10	105.00	0.02	9	1	TRANSITION TO STRUCTURE (SEE SHEET 28)
JEFFERSON CO. LINE (BACK)	33.95	34.55	0.60	3,168.00	8.00	1.50	1	3,344	1 1/2	3,344			284			1 1/2	139	3168.00	0.60	282	39	RUMBLE STRIPS OUTSIDE
SHOULDER PAVEMENT SUBTOTAL CARRIED TO SHEET 10										17.406	500	1.523	85	95			865	17.897	3.21	1.506	209	PART 1 (01/ NHS / PV)
COLUMBIANA CO. LINE (AHD)	0.00	0.18	0.18	950.40	8.00	1.50	1	1,003	1 1/2	1,003			85			1 1/2	42	950.40	0.18	84	12	RUMBLE STRIPS OUTSIDE
	0.18	0.36	0.18	950.40		1.50	3	158	1 1/2	158			13			1 1/2	7		0.18	84	12	
RAMP A TERMINAL	0.18	0.37	0.19	1,003.20	8.00		3	892	1 1/2	892			76			1 1/2	37	1003.20	0.19	89	12	RUMBLE STRIPS OUTSIDE
MEDIAN SHOULDER	0.36	0.46	0.10	495.07		4.13	3	227	1 1/2	227			19			1 1/2	9		0.09	44	6	
OUTSIDE SHOULDER	0.37	0.46	0.09	475.20	8.00		3	422	1 1/2	422			36			1 1/2	18	475.20	0.09	42	6	RUMBLE STRIPS OUTSIDE
	0.46	0.56	0.10	528.00	8.00	6.75	3	865	1 1/2	865			74			1 1/2	36	1056.00	0.10	47	7	RUMBLE STRIPS BOTH SIDES
	0.56	0.59	0.03	158.40	10.00	6.75	3	295	1 1/2	295			25			1 1/2	12	316.80				RUMBLE STRIPS BOTH SIDES
	0.59	0.60	0.01	52.80	12.00	6.75	3	110	1 1/2	110			9			1 1/2	5	105.60	0.01	5	1	RUMBLE STRIPS BOTH SIDES
	0.60	0.74	0.14	739.20	14.00	6.75	3	1,704	1 1/2	1,704			145			1 1/2	71	1478.40				RUMBLE STRIPS BOTH SIDES
	0.74	0.87	0.13	686.40	10.00	6.75	3	1,277	1 1/2	1,277			109			1 1/2	53	1372.80	0.13	61	8	RUMBLE STRIPS BOTH SIDES
RAMP D TERMINAL	0.87	0.92	0.05	264.00	8.00	6.75	3	433	1 1/2	433			37			1 1/2	18	528.00	0.05	23	3	RUMBLE STRIPS BOTH SIDES
	0.92	1.02	0.10	528.00	8.00	6.75	3	865	1 1/2	865			74			1 1/2	36	1056.00	0.10	47	7	RUMBLE STRIPS BOTH SIDES
RAMP D TERMINAL	1.02	1.11	0.09	475.20	8.00	6.75	3	779	1 1/2	779			66			1 1/2	32	950.40	0.09	42	6	RUMBLE STRIPS BOTH SIDES
	1.11	1.27	0.16	844.80	8.00	6.75	3	1,385	1 1/2	1,385			118			1 1/2	58	1689.60	0.16	75	10	RUMBLE STRIPS BOTH SIDES
STRUCTURE COL-7-0127																						
	1.29	1.40	0.11	580.80	8.00	6.75	3	952	1 1/2	952			81			1 1/2	40	1161.60	0.11	52	7	RUMBLE STRIPS BOTH SIDES
RAMP A TERMINAL	1.40	1.56	0.16	844.80	8.00	6.75	3	1,385	1 1/2	1,385			118			1 1/2	58	1689.60	0.16	75	10	RUMBLE STRIPS BOTH SIDES
	1.56	1.94	0.38	2,006.40	8.00	6.75	3	3,288	1 1/2	3,288			279			1 1/2	137	4012.80	0.38	178	25	RUMBLE STRIPS BOTH SIDES
STRUCTURE COL-7-0193																						
	1.95	2.44	0.49	2,587.20	8.00	6.75	3	4,240	1 1/2	4,240			360			1 1/2	177	5174.40	0.49	230	32	RUMBLE STRIPS BOTH SIDES
RAMP D TERMINAL	2.44	2.63	0.19	1,003.20	8.00	6.75	3	1,644	1 1/2	1,644			140			1 1/2	69	2006.40	0.19	89	12	RUMBLE STRIPS BOTH SIDES
	2.63	2.73	0.10	528.00	8.00	6.75	3	865	1 1/2	865			74			1 1/2	36	1056.00	0.10	47	7	RUMBLE STRIPS BOTH SIDES
STRUCTURE COL-7-0275																						
	2.85	3.06	0.21	1,108.80	8.00	6.75	3	1,817	1 1/2	1,817			154			1 1/2	76	2217.60	0.21	99	14	RUMBLE STRIPS BOTH SIDES
STRUCTURE COL-7-0305																						
	3.09	3.21	0.12	633.60	8.00	6.75	3	1,038	1 1/2	1,038			88			1 1/2	43	1267.20	0.12	56	8	RUMBLE STRIPS BOTH SIDES
RAMP A TERMINAL	3.21	3.36	0.15	792.00	8.00	6.75	3	1,298	1 1/2	1,298			110			1 1/2	54	1584.00	0.15	70	10	RUMBLE STRIPS BOTH SIDES
	3.36	3.41	0.05	264.00	8.00	6.75	3	433	1 1/2	433			37			1 1/2	18	528.00	0.05	23	3	RUMBLE STRIPS BOTH SIDES
	3.41	3.43	0.02	105.60	8.00	2.00	3	117	1 1/2	117			10			1 1/2	5	105.60	0.02	9	1	RUMBLE STRIPS OUTSIDE ONLY
	3.43	3.51	0.08	422.40	8.00	2.00	3	469	1 1/2	469			40			1 1/2	20	422.40	0.08	38	5	RUMBLE STRIPS OUTSIDE ONLY
C.R. 427 INTERSECTION																						
	3.52	3.56	0.04	211.20	8.00	2.00	3	235	1 1/2	235			20			1 1/2	10	211.20				RUMBLE STRIPS OUTSIDE ONLY
SHOULDER PAVEMENT SUBTOTAL CARRIED TO SHEET 10										28.196		2.397					1,177	32,419	3.43	1,609	224	PART 2 (01/ NHS / PV)

CALCULATED	SAH	CHECKED	DAH
S.R. 7 - SOUTHBOUND SHOULDER DATA			
JEF / COL-7 - 31.13 / 0.00			
24			
53			

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LOCATION		SLM		LENGTH		SHOULDER WIDTH (In Direction of Travel)		TYPICAL	PAVEMENT AREA  * Denotes CADD Area	254		407			442		209	408	617	REMARKS	
						OUTSIDE SHOULDER	MEDIAN SHOULDER			IN.	PAVEMENT PLANING, ASPHALT CONCRETE	NON-TRACKING TACK COAT @ 0.085 GAL./S.Y.	IN.	ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE B (447), AS PER PLAN	LINEAR GRADING	PRIME COAT, AS PER PLAN @ 0.40 GAL/SY	2" COMPACTED AGGREGATE (2' WIDTH)				
		FROM	TO	MILE	FT													FT	FT		SQ YD
CLARK ST. INTERCHANGE	SB RAMP 'A'	0.37	0.58	0.21	1,093.74	6	3	RAMP	1,094	1 1/2	1,094	93			1 1/2	46	0.21	97	14		
	STRUCTURE COL-7-0059																				
	SB RAMP 'A'	0.63	0.68	0.05	269.23	6	6	RAMP	359	1 1/2	359	31			1 1/2	15	0.05	24	3		
	NB RAMP 'B' TERMINAL	0.68	0.79	0.11	600.00	6	6	RAMP	800	1 1/2	800	68			1 1/2	33	0.11	53	7		
	SB RAMP 'A'	0.63	0.80	0.17	48.50	6	6	RAMP	65	1 1/2	65	6			1 1/2	3	0.01	4	1		
	NB RAMP 'B'	0.54	0.66	0.12	273.99	6	3	RAMP	274	1 1/2	274	23			1 1/2	11	0.05	24	3		
	NB RAMP 'C' LT RETURN				53.30		3	RAMP	18	1 1/2	18	2			1 1/2	1	0.01	5	1		
	NB RAMP 'C' RT RETURN				78.55	6		RAMP	52	1 1/2	52	4			1 1/2	2	0.01	7	1		
	NB RAMP 'C' LT				157.16		3	RAMP	52	1 1/2	52	4			1 1/2	2	0.03	14	2		
	NB RAMP 'C' RT				147.47	6		RAMP	98	1 1/2	98	8			1 1/2	4	0.03	13	2		
	NB RAMP 'C'	0.70	0.74	0.04	231.00	6	3	RAMP	231	1 1/2	231	20			1 1/2	10	0.04	21	3		
SB RAMP 'D'	0.57	0.66	0.09	503.02	6	6	RAMP	671	1 1/2	671	57			1 1/2	28	0.10	45	6			
SB RAMP 'D'	0.66	0.87	0.21	1,093.00	6	3	RAMP	1,093	1 1/2	1,093	93			1 1/2	46	0.21	97	13			
S.R. 39 INTERCHANGE																					
	SB RAMP 'A'	1.27	1.40	0.13	699.14	6	3	RAMP	699	1 1/2	699	59			1 1/2	29	0.13	62	9		
	NB RAMP 'B'	1.29	1.43	0.14	741.40	6	3	RAMP	741	1 1/2	741	63			1 1/2	31	0.14	66	9		
NB RAMP 'C'	1.15	1.26	0.11	573.71	6	3	RAMP	574	1 1/2	574	49			1 1/2	24	0.11	51	7			
SB RAMP 'D'	1.11	1.25	0.14	716.97	6	3	RAMP	717	1 1/2	717	61			1 1/2	30	0.14	64	9			
S.R. 45 INTERCHANGE	SB RAMP 'A' TO WELLS AVE.	3.01	3.03	0.02	151.17	3.75	5	RAMP	147	1 1/2	147	12			1 1/2	6	0.03	13	2		
	SB Ramp 'A' SPLIT	3.03	3.05	0.02	66.61	6	3	RAMP	67	1 1/2	67	6			1 1/2	3	0.01	6	1		
	SB RAMP 'A' UNDERPASS	3.05	3.08	0.03	164.45	6	3	RAMP	164	1 1/2	164	14			1 1/2	7	0.03	15	2		
	SB RAMP 'A'	3.08	3.21	0.13	681.48	6	3	RAMP	681	1 1/2	681	58			1 1/2	28	0.13	61	8		
	TR 916 ACCESS UNDER SR 7				165.03	2	1	RAMP	55			5					0.03	15	2		
	NB RAMP 'B'	3.06	3.20	0.14	755.93	6	3	RAMP	756	1 1/2	756	64			1 1/2	32	0.14	67	9		
	NB LISBON ST. RAMP	2.44	2.62	0.18	974.29	6	3	RAMP	974	1 1/2	974	83			1 1/2	41	0.18	87	12		
	SB RAMP 'D'	2.63	2.74	0.11	533.71	6	3	RAMP	534	1 1/2	534	45			1 1/2	22	0.10	47	7		
	STRUCTURE COL-7-0275 D																				
SB RAMP 'D'	2.78	2.80	0.02	80.39	6	3	RAMP	80	1 1/2		7			1 1/2	3	0.02	7	1			
SB RAMP 'D' LT. RETURN				158.48	6		RAMP	106	1 1/2		9			1 1/2	4	0.03	14	2			
SB RAMP 'D' RT. RETURN				146.68		3	RAMP	49	1 1/2	49	4			1 1/2	2	0.03	13	2			
RAMP SHOULDER PAVEMENT SUBTOTAL CARRIED TO SHEET NO. 10											10.910	948				463	2.11	992	138	PART 2 (01/NHS/PV)	

CALCULATED  
SAH  
CHECKED  
DAH

S.R. 7 - RAMP SHOULDER DATA

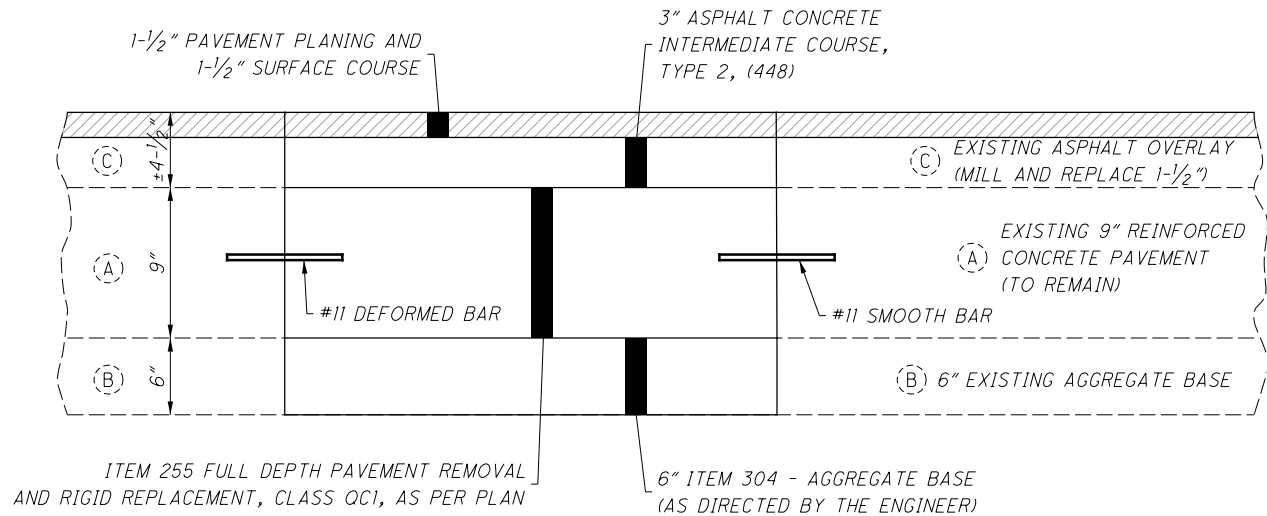
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S.R. 7 SLM		LENGTH	202				255	304	305	606	609	611							622											626	COMMENTS
			CONCRETE BARRIER REMOVED	PIPE REMOVE 24" AND UNDER	PAVEMENT REMOVED, ASPHALT	INLET REMOVED	FULL DEPTH PAVEMENT SAWING	6" AGGREGATE BASE	9" CONCRETE BASE, QC 1P	IMPACT ATTENUATOR, TYPE 1, (BIDIRECTIONAL)	4" CONCRETE MEDIAN	INLET NO. 3 FOR SINGLE SLOPE BARRIER, TYPE B1	INLET NO. 3 FOR SINGLE SLOPE BARRIER, TYPE B1, AS PER PLAN	6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLET	12" CONDUIT, TYPE B	15" CONDUIT, TYPE B	18" CONDUIT, TYPE B	21" CONDUIT, TYPE B	CONCRETE BARRIER, SINGLE SLOPE, TYPE B1	BARRIER TRANSITION	CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE B1, AS PER PLAN (A)	CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE B1, AS PER PLAN (B)	CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE B1, AS PER PLAN (C)	CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE B1, AS PER PLAN (D)	CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE B1, AS PER PLAN (E)	CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE B1, AS PER PLAN (F)	CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE B1, AS PER PLAN (G)	CONCRETE BARRIER END SECTION, TYPE B1	BARRIER REFLECTOR, TYPE 1, ONE-WAY (WHITE)		
FROM	TO	FT	FT	FT	SQ YD	EACH	FT	CU YD	SQ YD	EACH	SQ YD	EACH	EACH	FT	FT	FT	FT	FT	FT	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH		
COLUMBIANA CO.																															
0.36	1.27	4724	4554		253		9108	340	1851										4164	1	20	1	1	1	1	1			190	FOR DETAILS SHEETS 31 - 37	
0.47		20		16		1						1		8			16														
0.49		20		24		1						1		16	8	8	8														
0.5		20		8		1						1			8																
0.62		20		8		1						1		8	8																
0.71		20		8		1						1		8	8																
0.89		20		8		1							1	8	8															FOR DETAILS SEE SHEET 35	
1.25		20		8		1						1		8	8																
STRUCTURE COL-7-0127																															
1.28	1.92	3370	3270		182		6540	242	1320										2970	2	16						1		136	FOR DETAILS SHEET 31, 34, 36-37	
1.5		20		8		1						1		8	8																
1.65		20		8		1						1		8	8																
1.67		20		32		1						1		16	16			16													
1.69		20		8		1						1		8	8																
1.91		20		8		1						1		8	8																
STRUCTURE COL-7-0193																															
1.95	2.74	4231	4131		230		8262	306	1725										3881	2	14								172	FOR DETAILS SHEET NO 31, 34, 37	
2.2		20		8		1						1		8	8																
2.22		20		32		1						1		16	16			16													
2.24		20		8		1						1		8	8																
2.38		20		16		1						1						16													
2.73		20		16		1						1		8	16																
STRUCTURE COL-7-0275																															
2.84	3.04	1027	947		53		1894	70	336										757	2	10								44	FOR DETAILS SHEET NO 31, 34, 37	
2.87		20		16		1						1		8	16																
2.88		20		16		1						1		16	16																
2.9		20		8		1						1		8	8																
3.02		20		8		1						1		8	8																
STRUCTURE COL-7-0305																															
3.08	3.41	1709	1649		92		3298	122	664										1494	1	7							1	70	FOR DETAILS SHEET 31, 34, 37-38	
3.19		20		16		1						1		8	8	8															
3.22		20		16		1						1		16				16													
3.24		20		8		1						1		8	8																
3.41	3.48	389					778	28	173	1	125																			TOTAL CARRIED FROM SHT 38	
TOTALS CARRIED TO GENERAL SUMMARY			14551	312	810	24	29880	1108	6069	1	125	23	1	216	208	16	24	64	13266	8	67	1	1	1	1	1	1	612	PART 2 (01/NHS/PV)		

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**RIGID PAVEMENT REPAIR TYPICAL**

FOR DETAILS NOT SHOWN SEE STANDARD  
CONSTRUCTION DRAWING BP-2.5 FOR  
TRANSVERSE JOINT REPAIR DETAILS AND  
BP-2.1 FOR LONGITUDINAL JOINT DETAILS

**ITEM 255 - FULL DEPTH PAVEMENT REMOVAL AND RIGID  
REPLACEMENT, CLASS QC1, AS PER PLAN**

THE ESTIMATED QUANTITIES ARE TO BE CONSIDERED APPROXIMATE. IN ADDITION TO  
LOCATIONS IDENTIFIED BELOW, A FINAL FIELD REVIEW WILL BE PERFORMED BY ODOT PRIOR TO  
CONSTRUCTION AND FINAL LOCATIONS WILL BE GIVEN TO THE CONTRACTOR PRIOR TO  
CONSTRUCTION.

THIS WORK CONSISTS OF REMOVING THE EXISTING ASPHALT CONCRETE COURSE, THE EXISTING  
REINFORCED CONCRETE, AND THE EXISTING AGGREGATE BASE COURSES; SHAPING AND  
COMPACTING THE EXPOSED MATERIAL; PLACING ITEM 304 AGGREGATE BASE; THEN INSTALLING  
DOWEL RODS FOLLOWED BY CONCRETE PAVEMENT, CLASS QC1. FINALLY, PLACE ITEM 441,  
ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448) UP TO THE LEVEL OF THE EXISTING  
ASPHALT SURFACE.

ALL OTHER PROVISIONS OF STANDARD CONSTRUCTION DRAWINGS BP-2.1 AND BP-2.5 APPLY.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN PROVIDED FOR INFORMATION ONLY.

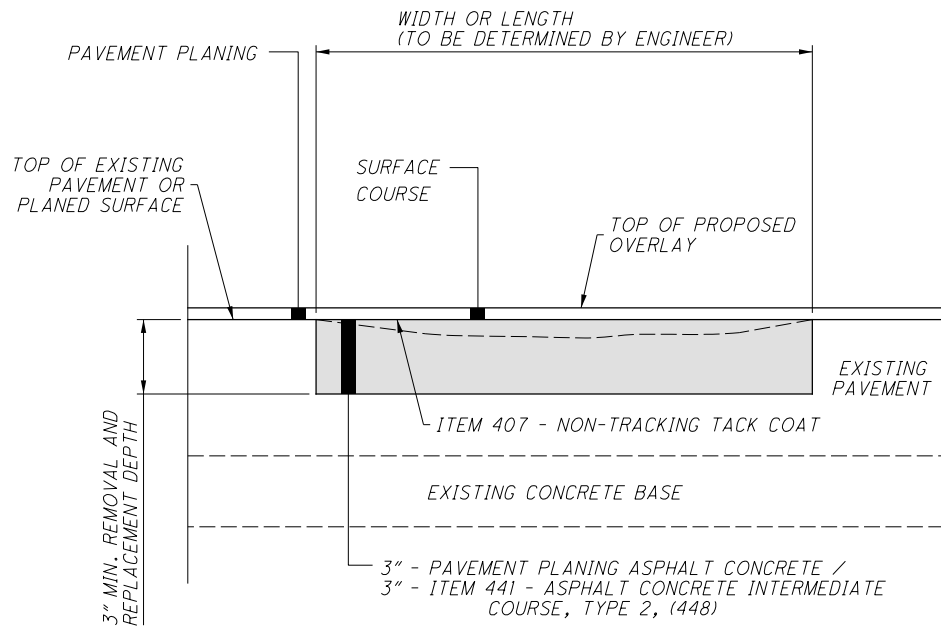
9" CONCRETE, CLASS QC1	960 SQ. YD.
ITEM 304 - AGGREGATE BASE	160 CU. YD.
ITEM 441 - ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2 (448)	80 CU. YD.
ITEM 509 - EPOXY COATED REINFORCING	14900 POUNDS
ITEM 510 - DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT	2400 EACH

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY TO BE  
USED AS DIRECTED BY THE ENGINEER. FINAL PAYMENT FOR THESE ITEMS SHALL BE FOR THE  
ACCEPTED QUANTITY COMPLETED IN PLACE.

PART 1 & 2 (01/NHS/PV)

ITEM 255 - FULL DEPTH PAVEMENT REMOVAL AND RIGID  
REPLACEMENT, CLASS QC1, AS PER PLAN -  
ITEM 255 - FULL DEPTH PAVEMENT SAWING -

960 SQ. YD.  
4300 FT.



**PARTIAL DEPTH PAVEMENT REPAIR TYPICAL**

**ITEM 251 - PARTIAL DEPTH PAVEMENT REPAIR (441)**

PARTIAL DEPTH PAVEMENT REPAIRS SHALL BE 3 INCHES DEEP AND FILLED WITH  
ITEM 441, ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448). THE  
ESTIMATED QUANTITY IS TO BE CONSIDERED APPROXIMATE. A FINAL FIELD REVIEW  
WILL BE PERFORMED BY ODOT AND FINAL LOCATIONS WILL BE GIVEN TO THE  
CONTRACTOR PRIOR TO CONSTRUCTION.

ALL PARTIAL DEPTH REPAIRS ARE TO BE COMPLETED PRIOR TO THE PAVING  
OPERATIONS.

THE ESTIMATED QUANTITY IS TO BE USED AS DIRECTED BY THE ENGINEER. THE  
ENGINEER WILL DETERMINE THE SIZE AND LOCATION OF EACH PAVEMENT REPAIR.  
FINAL PAYMENT FOR THE ABOVE ITEMS SHALL BE FOR THE ACCEPTED QUANTITY  
COMPLETED IN PLACE.

PART 1 & 2 (01/NHS/PV)

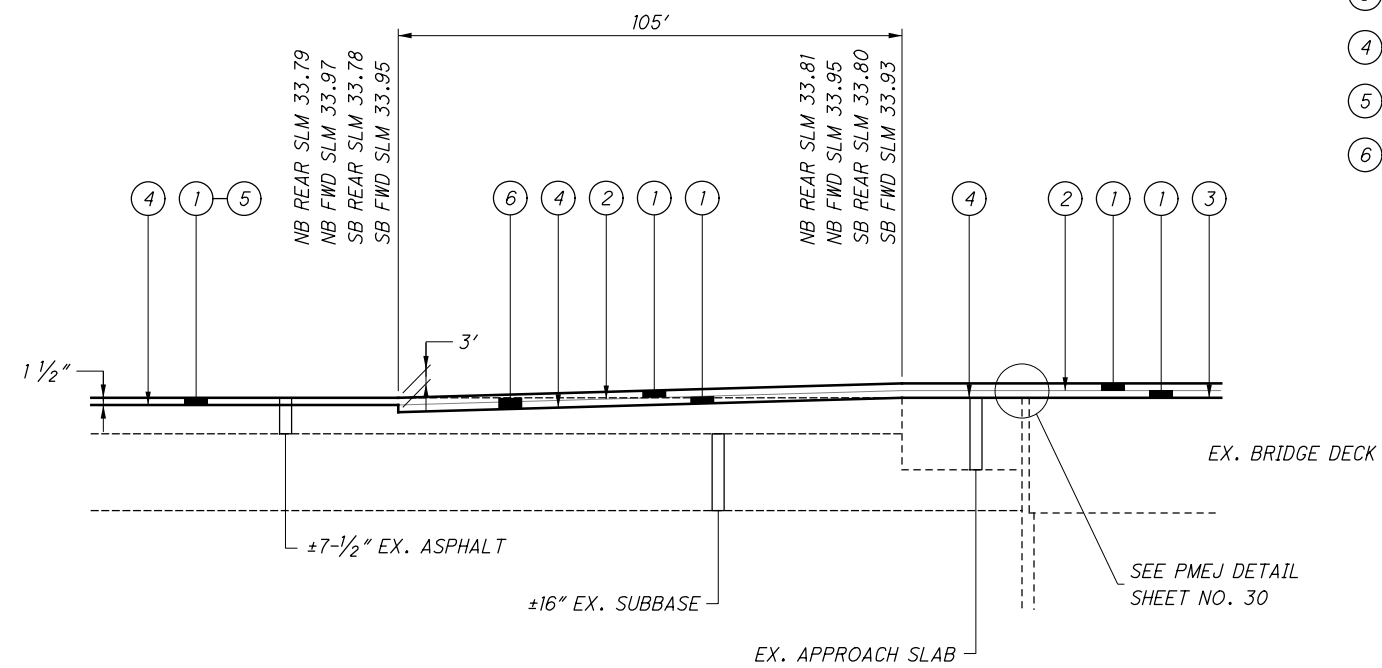
ITEM 251 - PARTIAL DEPTH PAVEMENT REPAIR (441) 60 CU YD

CALCULATED  
SAH  
CHECKED  
DAH

PAVEMENT REPAIR DETAILS

JEF / COL-7 -31.13/ 0.00

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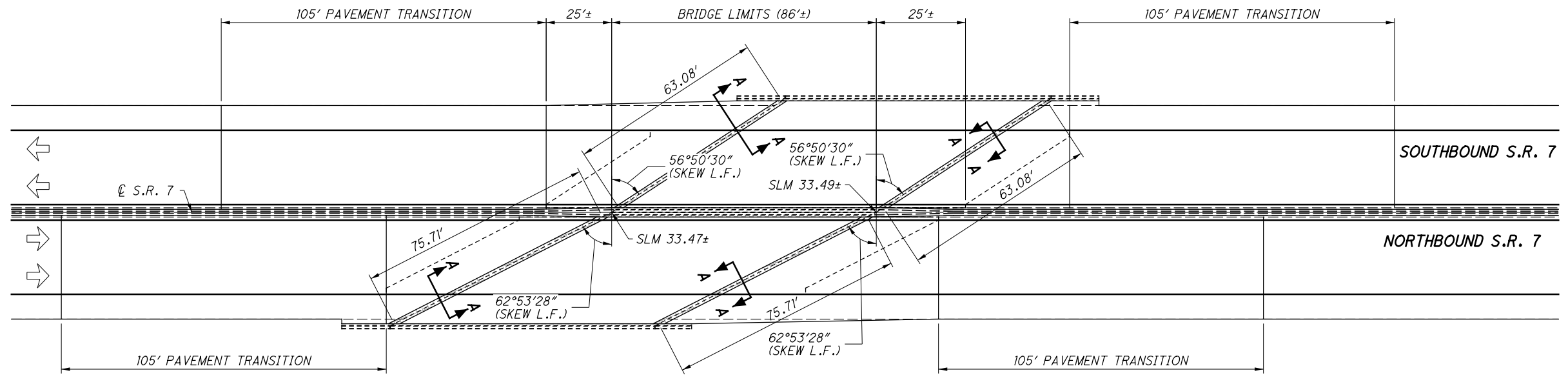
PAVEMENT TRANSITION BRIDGE NO. JEF-7-3380  
(PART 1)

FOR PMEJ DETAIL, SEE SHEET NO. 29 - 30

- ① 1-1/2" ITEM 442 - ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE B (447), AS PER PLAN
- ② ITEM 407 - NON-TRACKING TACK COAT @ 0.055 GAL/SY
- ③ ITEM 407 - NON-TRACKING TACK COAT @ 0.070 GAL/SY
- ④ ITEM 407 - NON-TRACKING TACK COAT @ 0.085 GAL/SY
- ⑤ ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE (1-1/2")
- ⑥ ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE (VARIES)

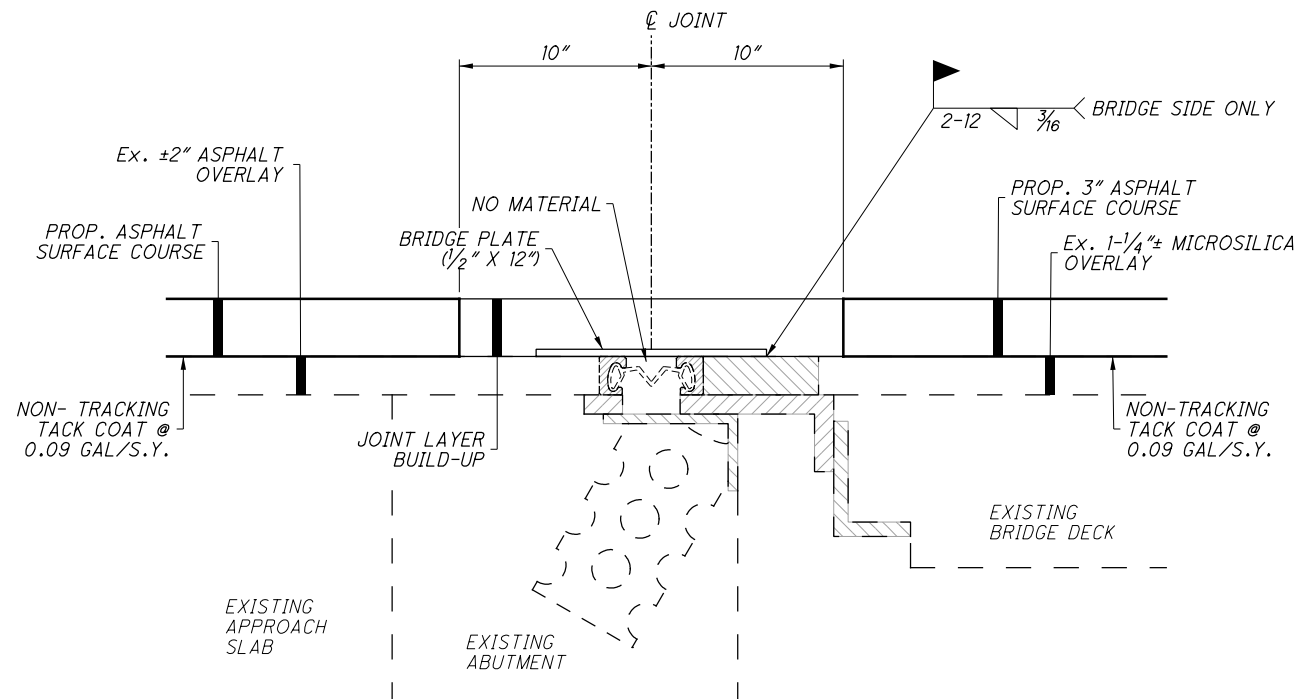


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JEF-7-3346 (SFN 4101626)

FOR PAVEMENT TRANSITION DETAIL, SEE SHEET NO. 28



SECTION A-A

STRUCTURE:  
JEF-7-3346 (SFN 4101626)  
SLM 33.47 - 33.49

**ESTIMATED QUANTITIES**

ITEM 846 POLYMER MODIFIED ASPHALT EXPANSION JOINT SYSTEM, AS PER PLAN (A)

SLM 33.47±	NB REAR JOINT	32 CU. FT.
(10'+10')/12 x 3"/12 x 76' = 31.7		
SLM 33.47±	SB REAR JOINT	26 CU. FT.
(10'+10')/12 x 3"/12 x 63' = 26.3		
SLM 33.49±	NB FORWARD JOINT	32 CU. FT.
(10'+10')/12 x 3"/12 x 76' = 31.7		
SLM 33.49±	SB FORWARD JOINT	26 CU. FT.
(10'+10')/12 x 3"/12 x 63' = 26.3		

PART 1 (01/NHS/PV)  
TOTAL CARRIED TO GENERAL SUMMARY - 116 CU. FT.

NOTE: IN LEIU OF BACKER ROD AND LOCATION PINS,  
PROVIDE TACK WELD AS SHOWN IN SECTION A-A



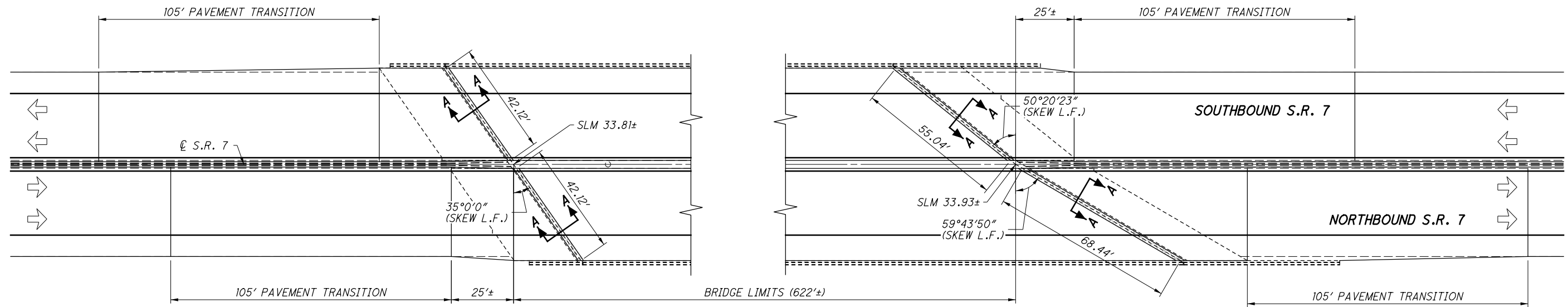
CALCULATED  
SAH  
CHECKED  
DAH

STRUCTURE JEF-7-3346 - POLYMER MODIFIED  
EXPANSION JOINT SYSTEM, AS PER PLAN (A)

JEF / COL-7 -31.13/ 0.00

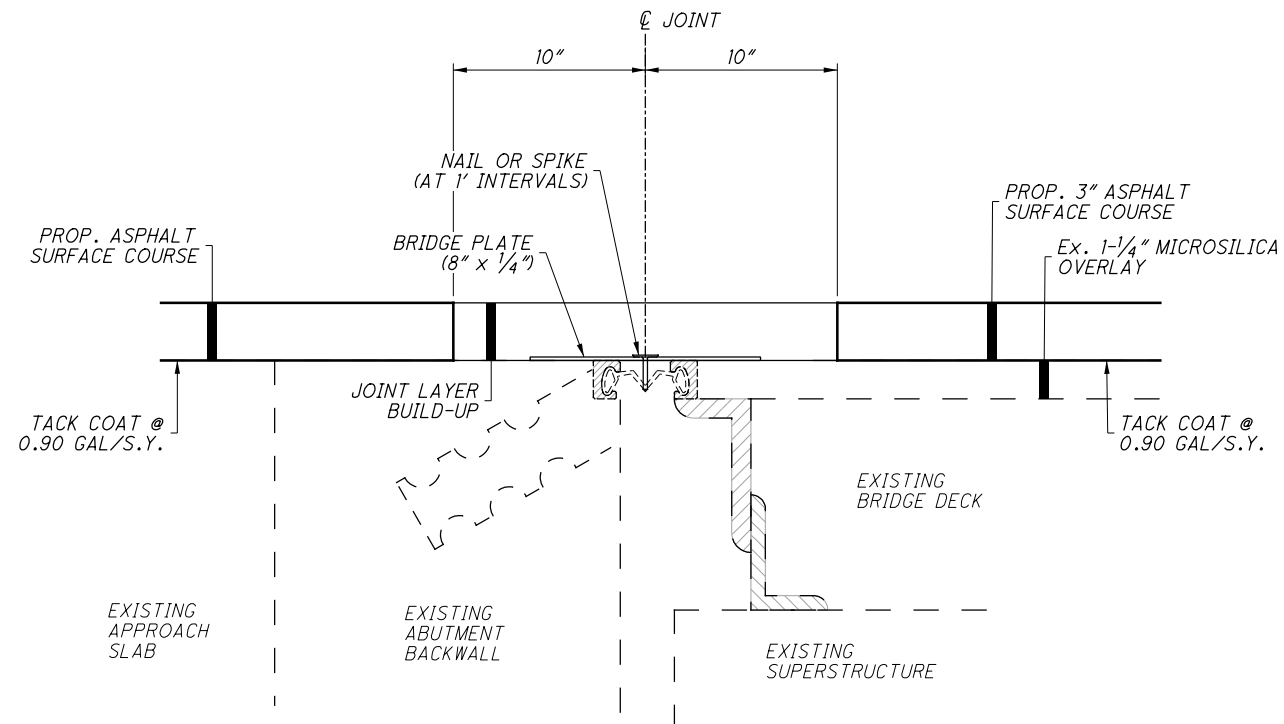
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JEF-7-3380 (SFN 4101650)

FOR PAVEMENT TRANSITION DETAIL, SEE SHEET NO. 28



SECTION A-A

STRUCTURE:  
JEF-7-3380 (SFN 4101650)  
SLM 33.81 - 33.93

**ESTIMATED QUANTITIES**

ITEM 846 POLYMER MODIFIED ASPHALT EXPANSION JOINT  
SYSTEM, AS PER PLAN (B)

SLM 33.81±	NB REAR JOINT	18 CU. FT.
$(10' + 10' / 12) \times 3' / 12 \times 42' = 17.50$		
SLM 33.81±	SB REAR JOINT	18 CU. FT.
$(10' + 10' / 12) \times 3' / 12 \times 42' = 17.50$		
SLM 33.93±	NB FORWARD JOINT	29 CU. FT.
$(10' + 10' / 12) \times 3' / 12 \times 69' = 28.75$		
SLM 33.93±	SB FORWARD JOINT	23 CU. FT.
$(10' + 10' / 12) \times 3' / 12 \times 55' = 22.92$		

PART 1 (01/NHS/PV)  
TOTAL CARRIED TO GENERAL SUMMARY - 88 CU. FT.



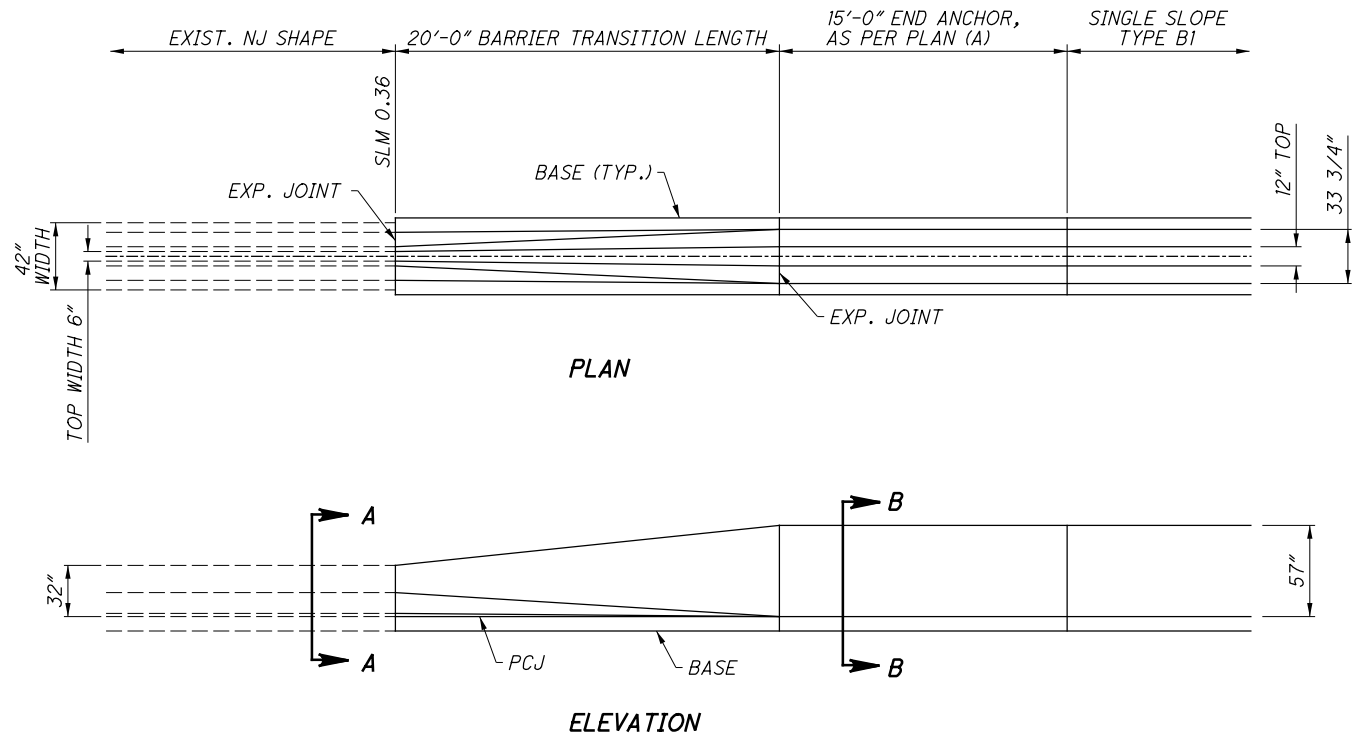
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STRUCTURE JEF-7-3380 - POLYMER MODIFIED  
EXPANSION JOINT SYSTEM, AS PER PLAN (B)

JEF / COL-7 -31.13/ 0.00

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NOTES

GENERAL: THIS INSERT DETAILS THE BARRIER TRANSITION, TO CONNECT EXISTING NJ CONCRETE BARRIER (SAFETY SHAPE) TO A NEW RUN OF SINGLE SLOPE CONCRETE BARRIER AT LOCATIONS SHOWN ON THE PLANS. FOR NJ BARRIER SHAPE AND OTHER DETAILS SEE THE RESPECTIVE PLAN INSERT SHEETS. FOR SINGLE SLOPE BARRIER DETAILS, SEE SCD RM-4.3 (RM-4.5 FOR TYPE D).

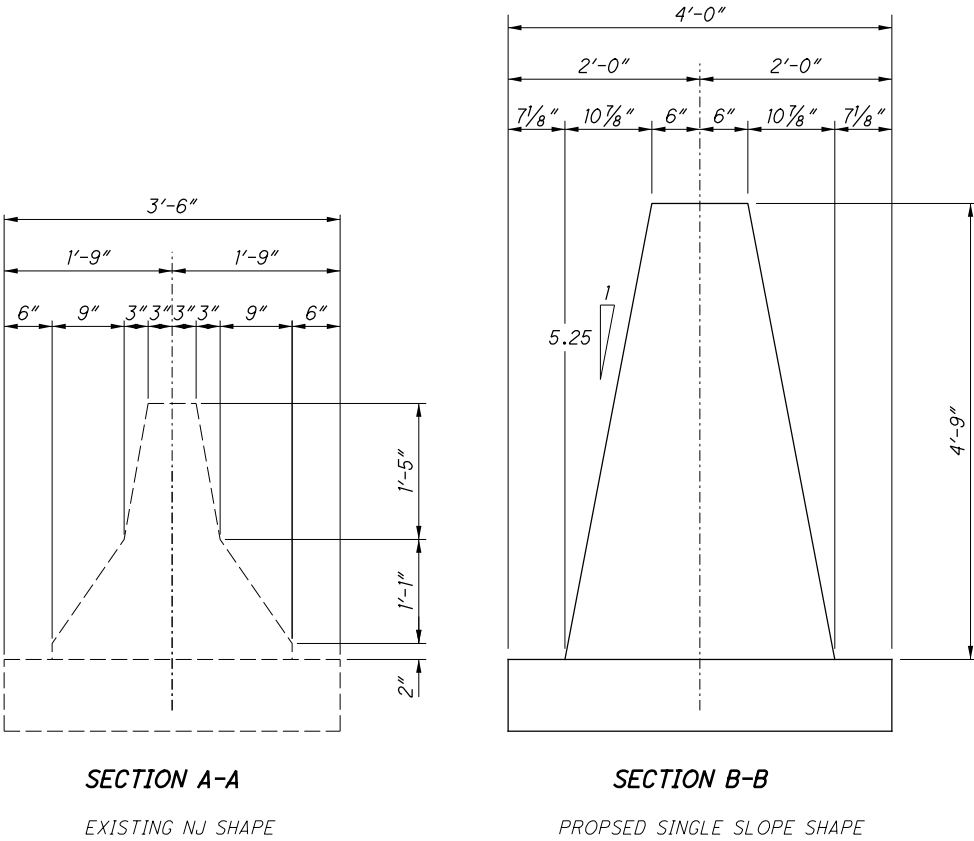
BARRIER FACE TRANSITION: TO PREVENT VEHICLE SNAGGING, A SMOOTH TRANSITION FROM THE SAFETY SHAPE FACE TO THE SINGLE SLOPE FACE IS MADE OVER A 20' LENGTH. THE ACTUAL SHAPE OF THE TRANSITION IS DEPENDENT ON BOTH THE ADJACENT NJ BARRIER AND THE SINGLE SLOPE BARRIER TYPES, AS DETAILED ON THE PLANS.

MATERIALS: MATERIALS ARE SAME FOR THOSE SHOWN ON RM-4.3 AND RM-4.5, EXCEPT THAT CAST-IN-PLACE IS THE ONLY ACCEPTABLE METHOD. EDGES MAY BE CHAMFERED OR RADIUSED AS SHOWN ON THOSE DRAWINGS.

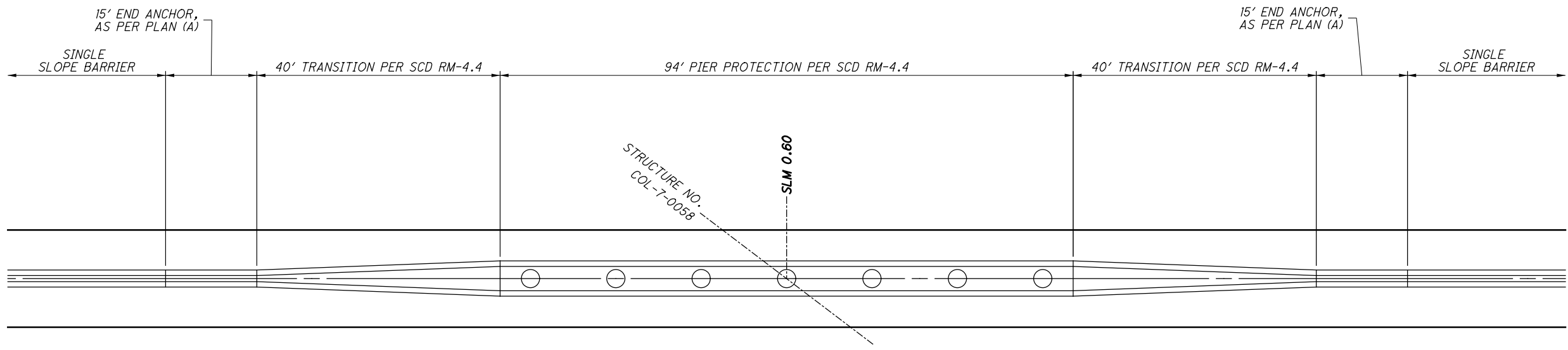
CONCRETE BASE: CONSTRUCT BASE AS SHOWN ON STD DWG RM-4.3, INCLUDING THE METHODS DETAILING THE FOOTING JOINT, PERMISSIBLE CONSTRUCTION JOINT (PCJ), AND DOWELLING REQUIREMENTS.

JOINTS: CONSTRUCT JOINTS AS SHOWN ON RESPECTIVE BARRIER DRAWINGS.

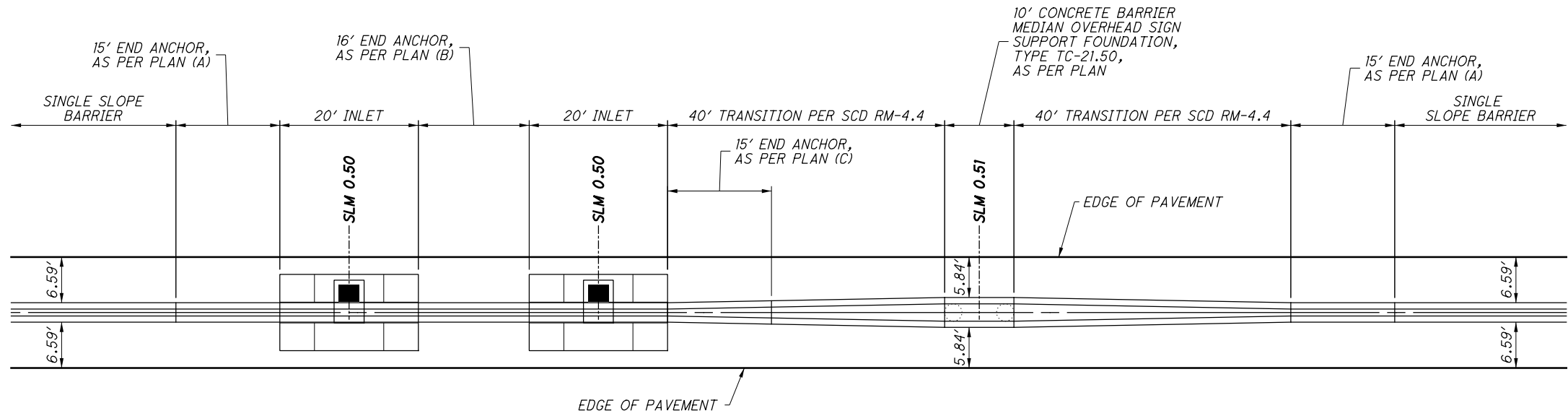
PAYMENT: THIS BARRIER TRANSITION SHALL INCLUDE ALL MATERIAL AND LABOR NEEDED TO CONSTRUCT THIS 20' SECTION, INCLUDING ANY RACEWAYS, REINFORCING STEEL, DOWELS AND OTHER NECESSARY INCIDENTALS. PAYMENT SHALL BE MADE AT THE UNIT PRICE FOR ITEM 622 - BARRIER TRANSITION, EACH.



I:\ProjectData\81722\Design\Roadway\Sheets\81722\_GM003.dgn Sheet 2/6/2020 4:52:34 PM shorrlsb

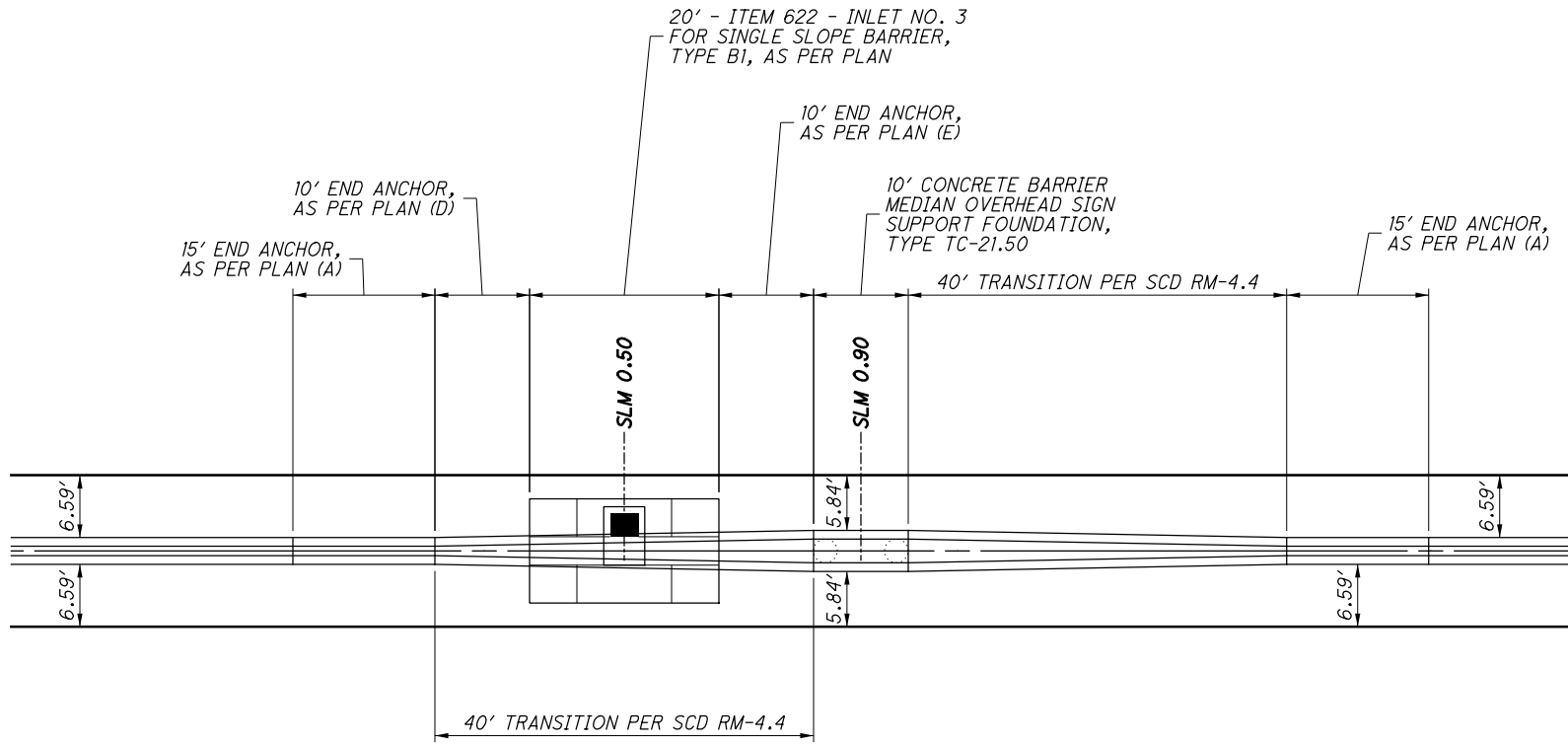


**MEDIAN BARRIER PIER PROTECTION AT STRUCTURE NO. COL-7-0058**  
**(PART 2)**

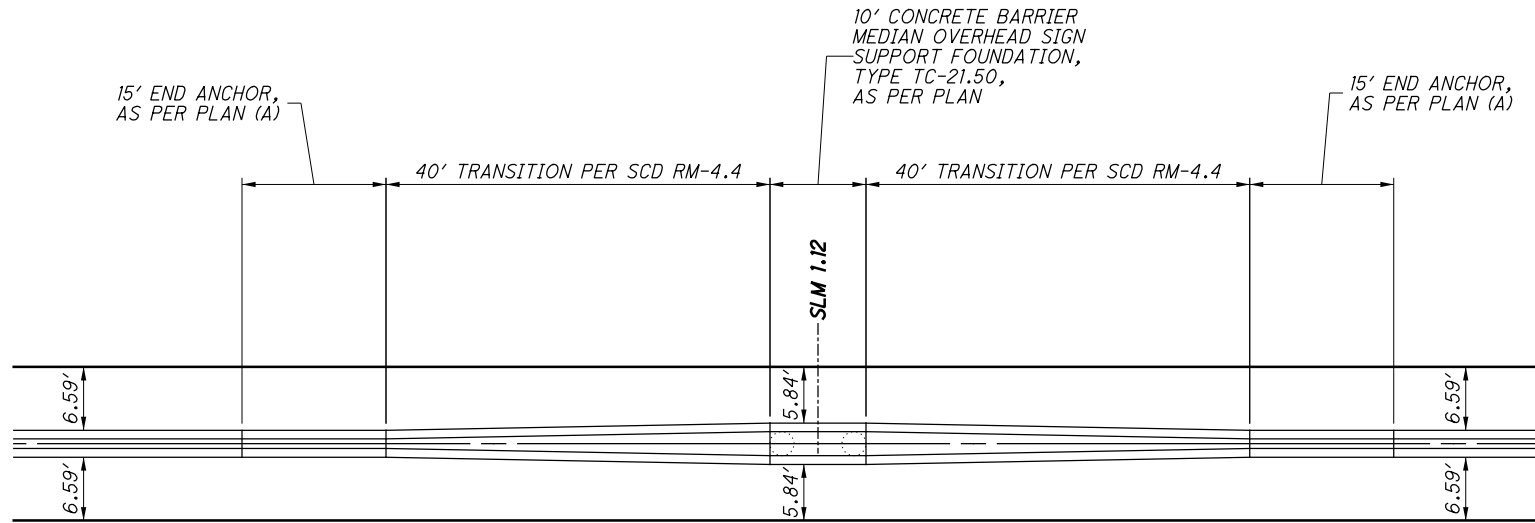


**MEDIAN BARRIER TRANSITION AT SIGN SUPPORT**  
**(PART 2)**

I:\ProjectData\81722\Design\Roadway\Sheets\81722\_GM006.dgn Sheet 2/6/2020 4:52:35 PM shorrisb



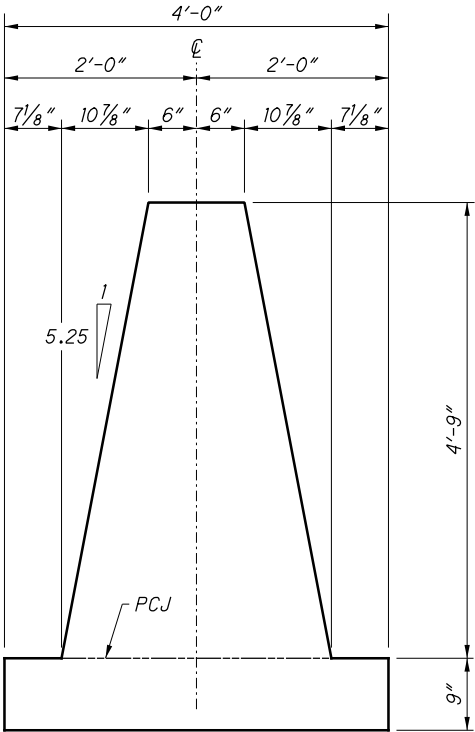
**MEDIAN BARRIER TRANSITION AT SIGN SUPPORT**  
**(PART 2)**



**MEDIAN BARRIER TRANSITION AT SIGN SUPPORT**  
**(PART 2)**

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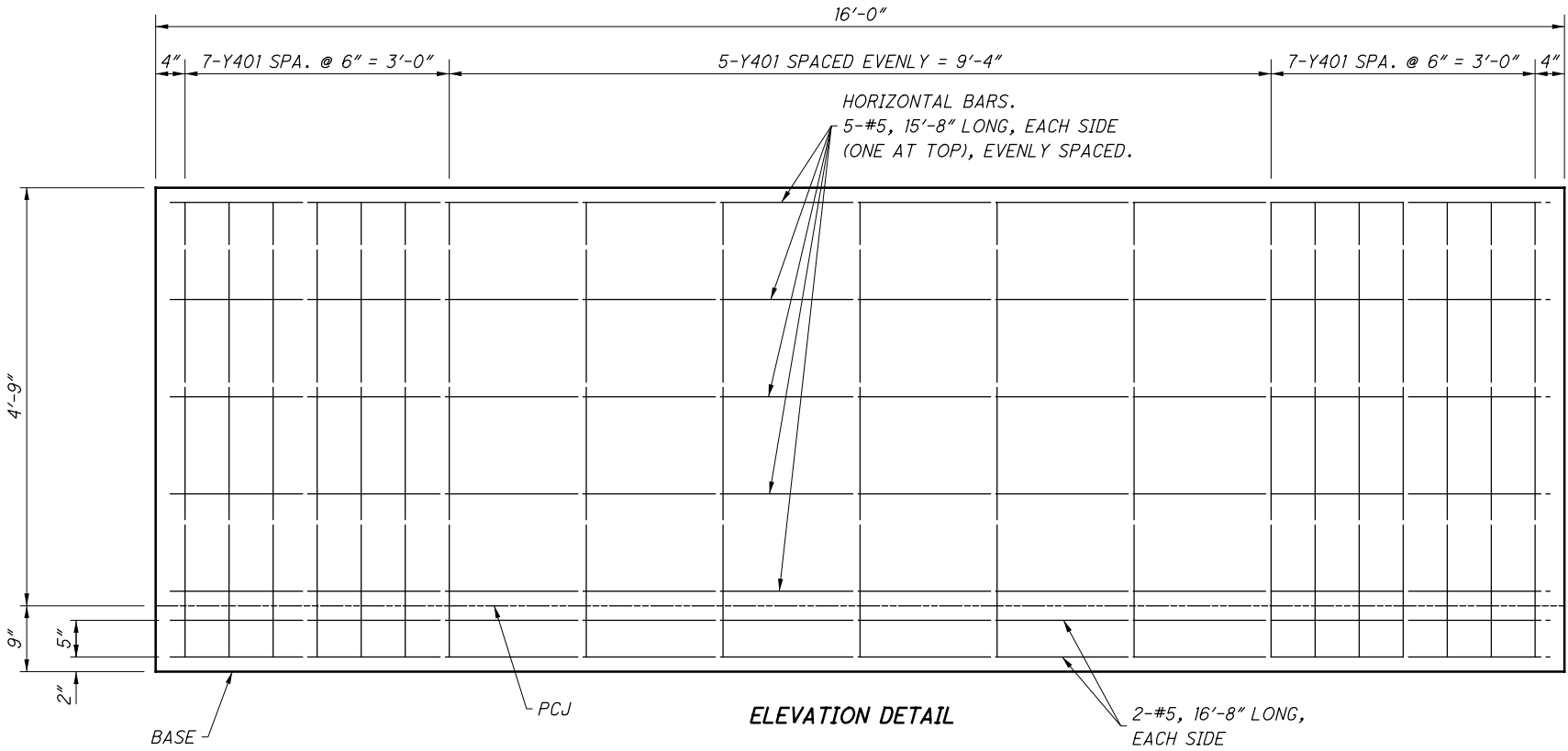
ITEM 622 - CONCRETE BARRIER END ANCHORAGE, REINFORCED, TYPE B1, AS PER PLAN (A)



SECTION DETAIL

FOR ADDITIONAL DETAILS, SEE RM-4.3

ITEM 622 - CONCRETE BARRIER END ANCHORAGE, REINFORCED, TYPE B1, AS PER PLAN (B)



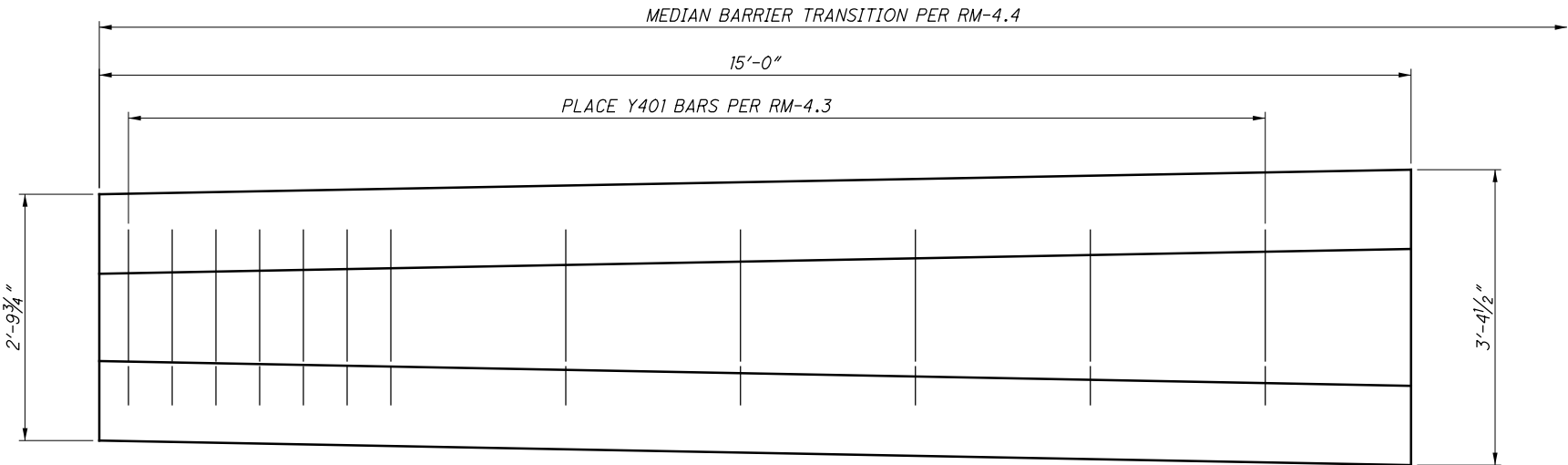
ELEVATION DETAIL

FOR SECTION DETAIL SEE 'CONCRETE BARRIER END ANCHORAGE, REINFORCED, TYPE B1, AS PER PLAN (A)' DETAIL  
FOR ADDITIONAL DETAILS, SEE RM-4.3

MARK	NUMBER	LENGTH	X	Y	Z
Y401	19	SEE Y401 #4 RM-4.3			

FOR INFORMATION ONLY

ITEM 622 - CONCRETE BARRIER END ANCHORAGE, REINFORCED, TYPE B1, AS PER PLAN (C)



FOR SECTION DETAIL SEE 'CONCRETE BARRIER END ANCHORAGE, REINFORCED, TYPE B1, AS PER PLAN (A)' DETAIL  
FOR ADDITIONAL DETAILS, SEE RM-4.3

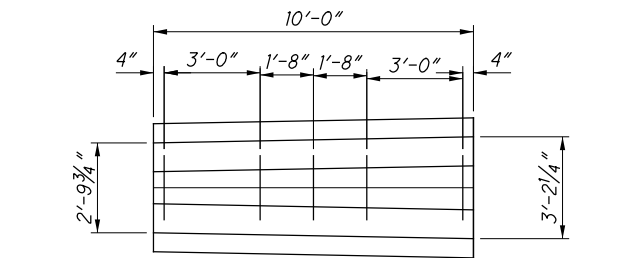
CALCULATED  
SAH  
CHECKED  
DAH

MISCELLANEOUS DETAILS - BARRIER DETAILS

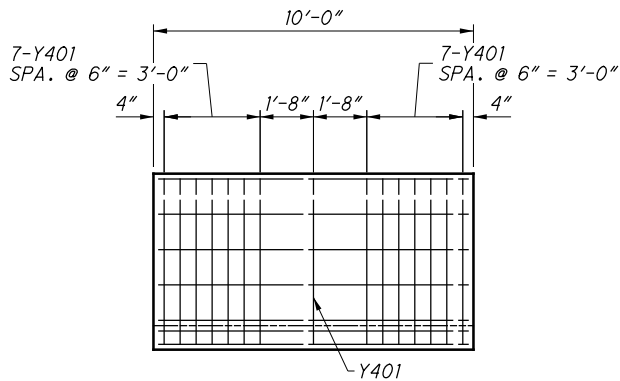
JEF / COL-7 -31.13 / 0.00

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ITEM 622 - CONCRETE BARRIER,  
END ANCHORAGE, REINFORCED, TYPE  
B1, AS PER PLAN (D)



PLAN

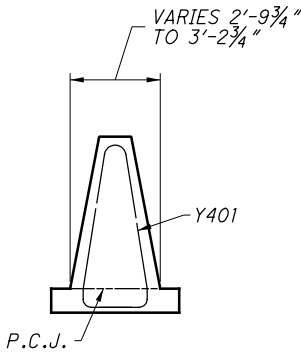


ELEVATION

FOR ADDITIONAL DETAILS, SEE RM-4.3

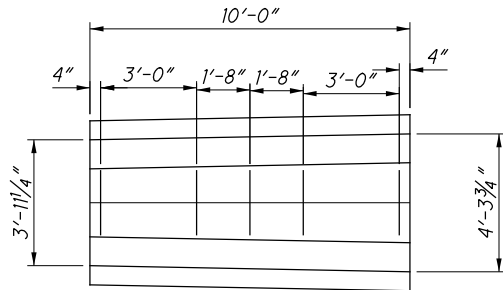
MARK	NUMBER	LENGTH	X	Y	Z
Y401	15	SEE Y401 #4 RM-4.3			

FOR INFORMATION ONLY

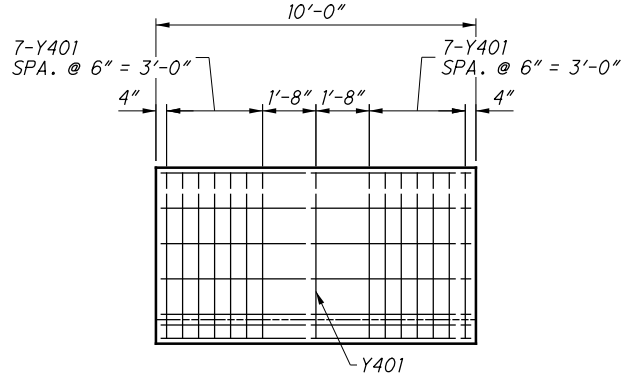


SECTION

ITEM 622 - CONCRETE BARRIER,  
END ANCHORAGE, REINFORCED, TYPE  
B1, AS PER PLAN (E)



PLAN

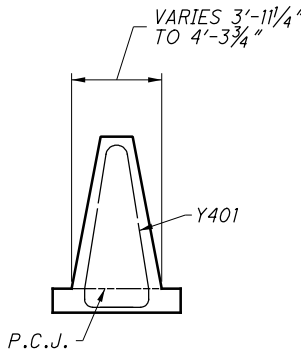


ELEVATION

FOR ADDITIONAL DETAILS, SEE RM-4.3

MARK	NUMBER	LENGTH	X	Y	Z
Y401	15	SEE Y401 #4 RM-4.3			

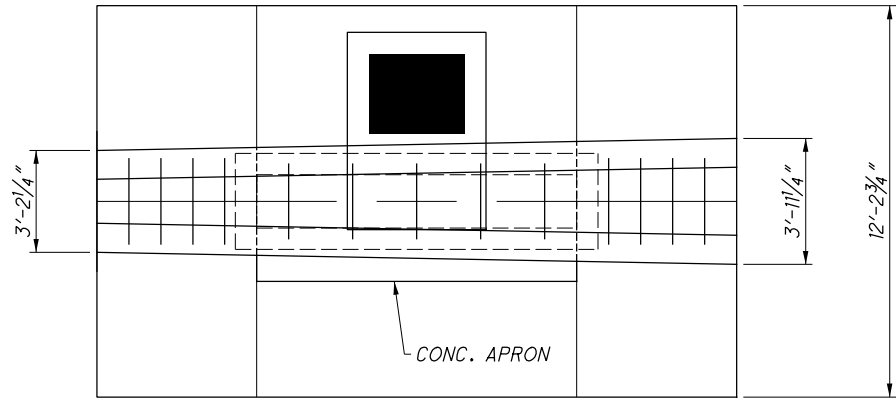
FOR INFORMATION ONLY



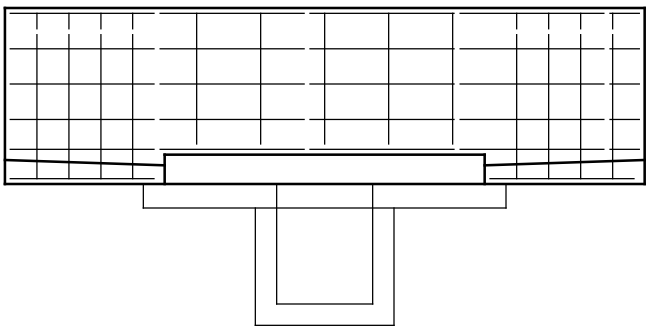
SECTION

ITEM 611 - INLET NO. 3 FOR SINGLE  
SLOPE BARRIER, TYPE B1, AS PER PLAN

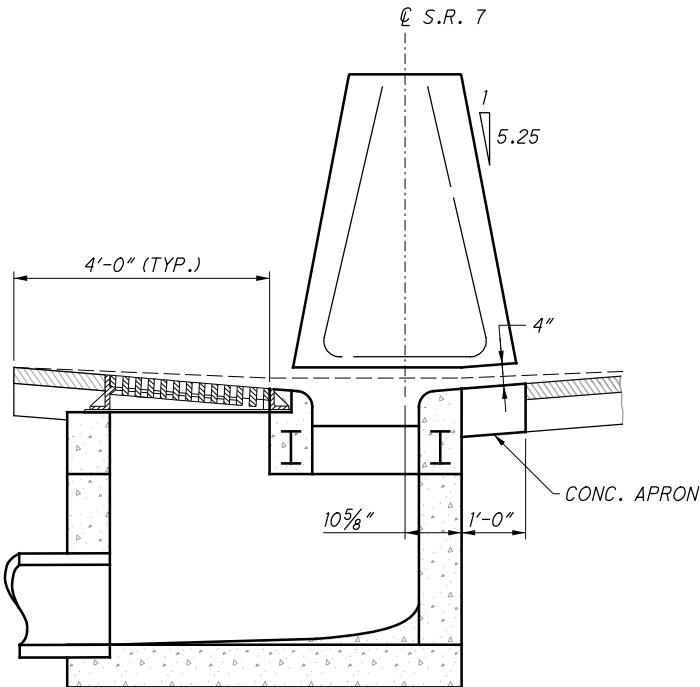
NOTE: LONGITUDINAL BARS ARE NOT SHOWN (TYP.)



PLAN

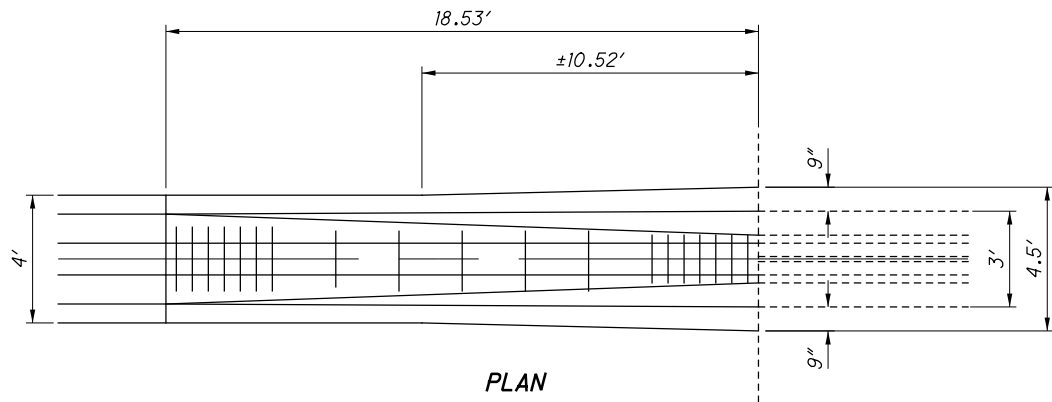


ELEVATION



SECTION

I:\ProjectData\81722\Design\Roadway\Sheets\81722\_GM01.dgn Sheet 2/6/2020 4:52:38 PM shor-risb

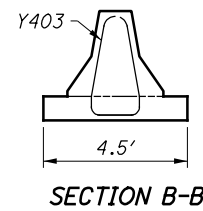
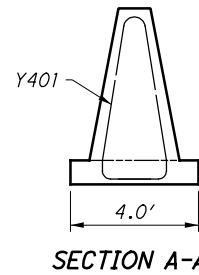
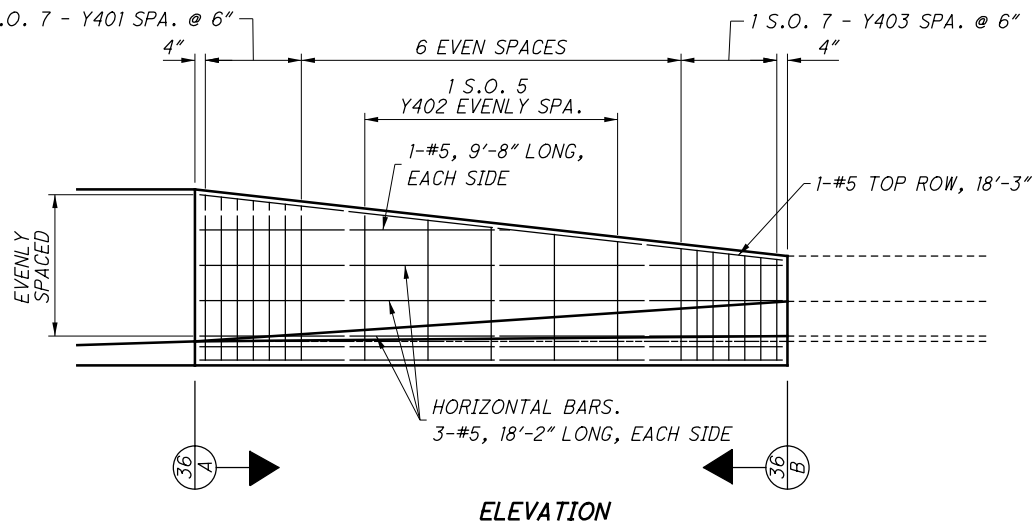


ITEM 622 - CONCRETE BARRIER,  
END ANCHORAGE, REINFORCED, TYPE  
B1, AS PER PLAN (F)

FOR ADDITIONAL DETAILS, SEE RM-4.3

MARK	NUMBER	LENGTH	X	Y	Z
Y401	1 S.O. 7	13'-3" TO 12'-6"	4'-3" TO 3'-11"	2'-0"	8"
Y402	1 S.O. 5	12'-0" TO 10'-2"	3'-8" TO 2'-9"	1'-9"	8"
Y403	1 S.O. 7	10'-0" TO 9'-4"	2'-7" TO 2'-3"	1'-6"	8"

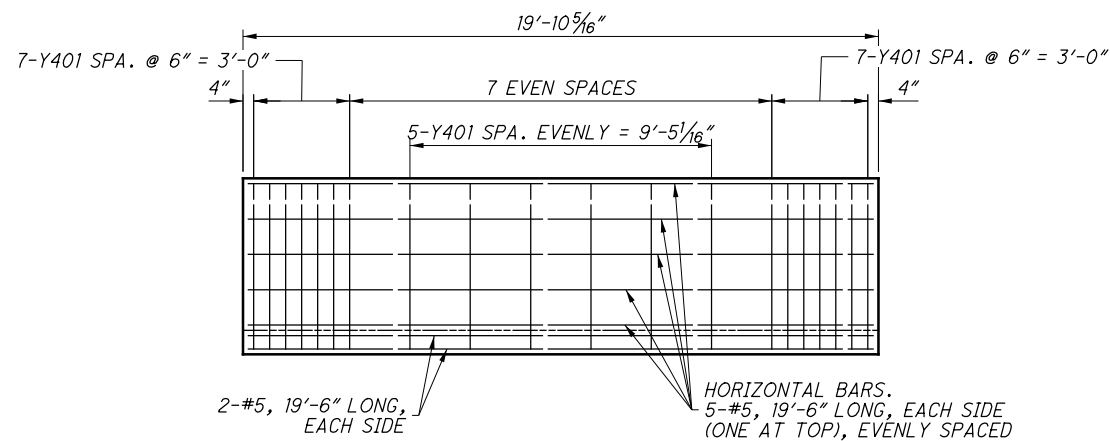
FOR INFORMATION ONLY



NOTE: LONGITUDINAL BARS ARE NOT SHOWN (TYP.)

ITEM 622 - CONCRETE BARRIER END ANCHORAGE, REINFORCED, TYPE B1, AS PER PLAN (G)

FOR SECTION DETAIL SEE 'CONCRETE  
BARRIER END ANCHORAGE,  
REINFORCED, TYPE B1, AS PER PLAN  
(A)' NOTE  
FOR ADDITIONAL DETAILS, SEE RM-4.3

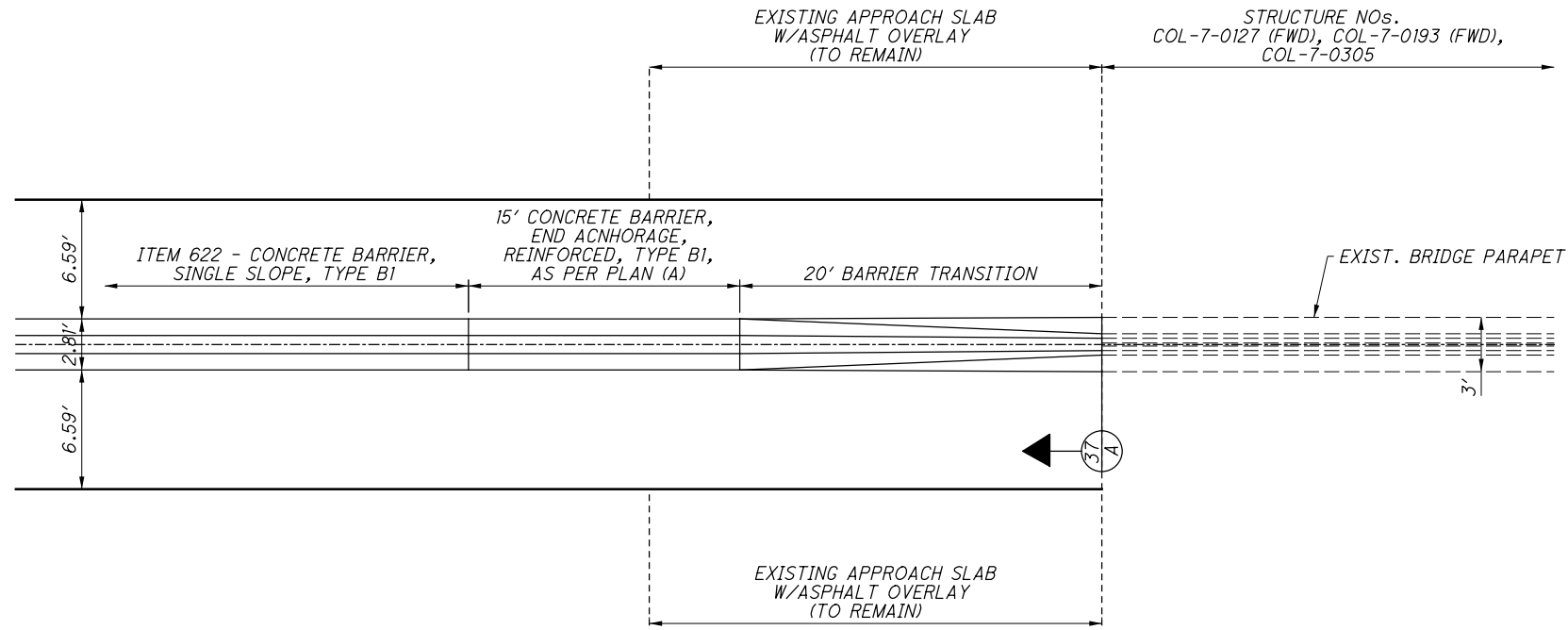


MARK	NUMBER	LENGTH	X	Y	Z
Y401	19	SEE Y401 #4 RM-4.3			

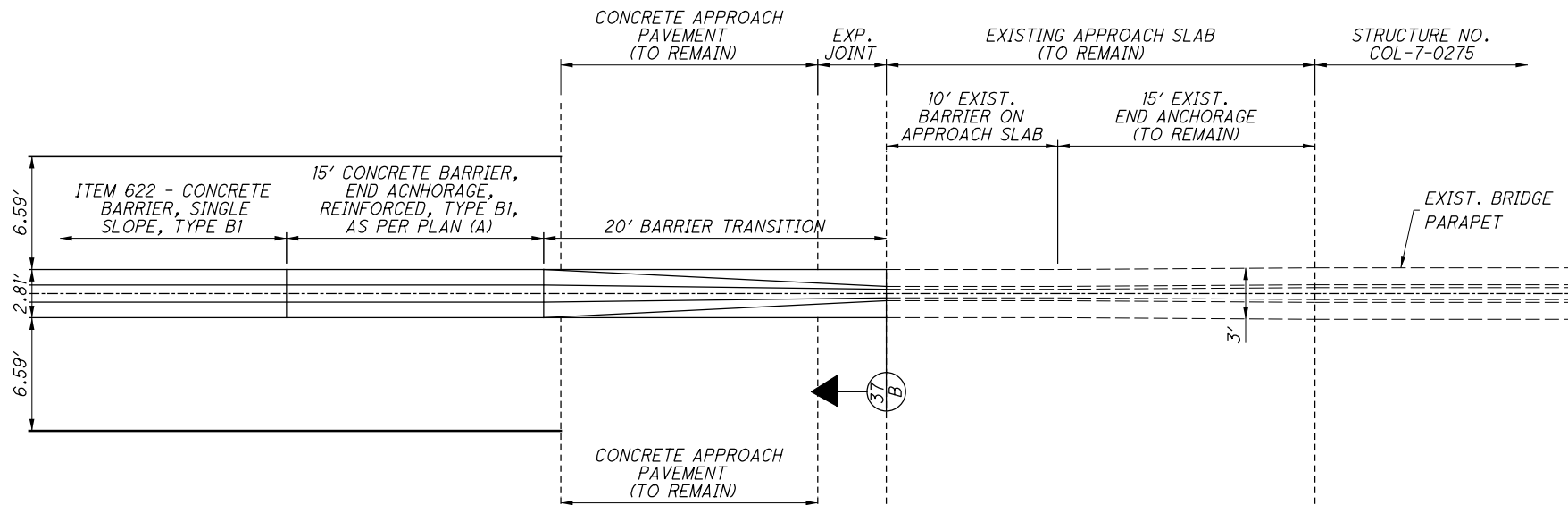
FOR INFORMATION ONLY



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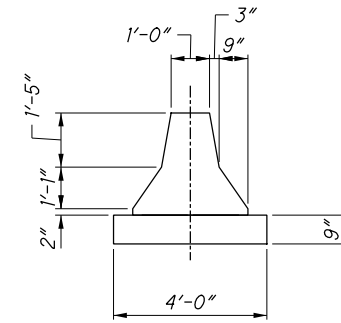


**MEDIAN BARRIER TRANSITION AT STRUCTURE  
DETAIL 1**

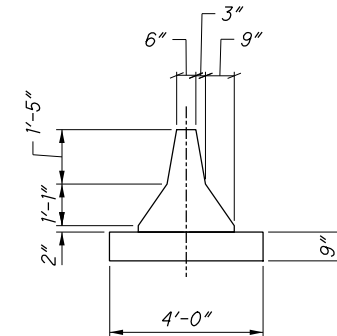


**MEDIAN BARRIER TRANSITION AT STRUCTURE  
DETAIL 2**

FOR SECTION DETAIL SEE 'CONCRETE BARRIER  
END ANCHORAGE, REINFORCED, TYPE B1, AS  
PER PLAN (A)' NOTE  
FOR ADDITIONAL DETAILS, SEE RM-4.3

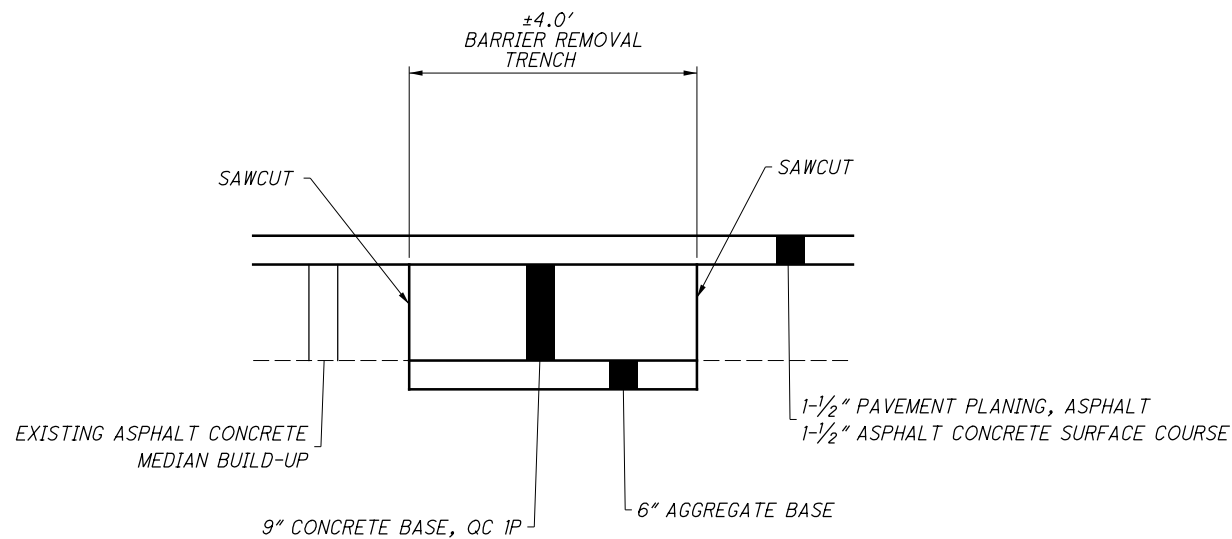
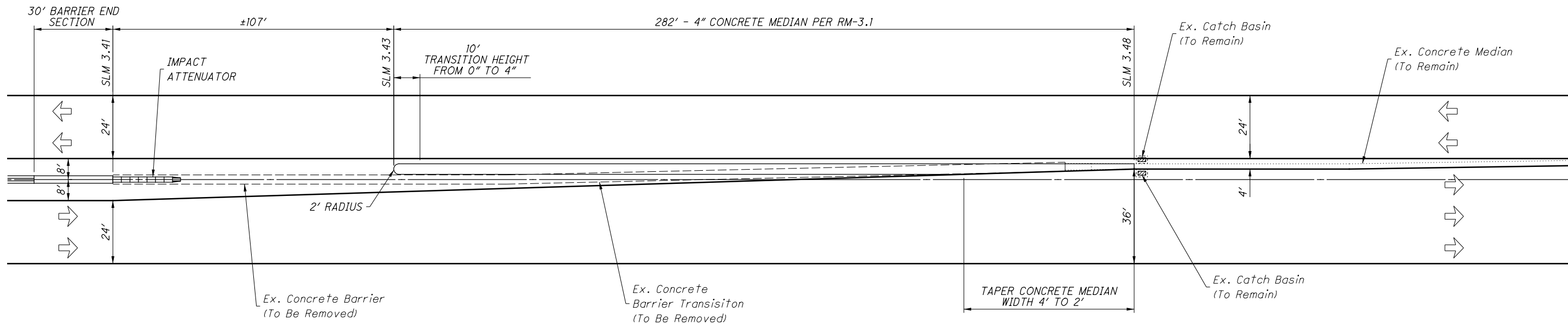


**SECTION A-A**  
MATCH BRIDGE PARAPET SHAPE



**SECTION B-B**  
MATCH BRIDGE PARAPET SHAPE

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**ESTIMATED QUANTITIES**

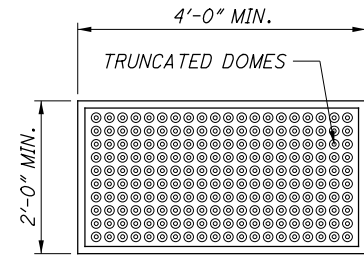
ITEM 252	FULL DEPTH PAVEMENT SAWING	778 FT
ITEM 304	6" AGGREGATE BASE	28 CU YD
ITEM 305	9" CONCRETE BASE, QC 1P	173 SQ YD
ITEM 606	IMPACT ATTENUATOR, BIDIRECTIONAL	1 EACH
ITEM 609	4" CONCRETE MEDIAN	125 SQ YD

TOTALS CARRIED TO SHEET 26

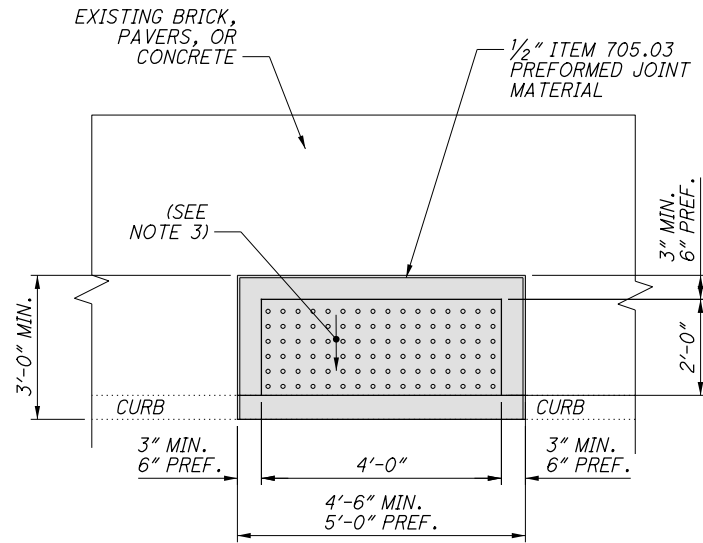
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LEGEND

LIMITS OF PAYMENT FOR  
ITEM 608 - CURB RAMP, OR  
ITEM 608 - CURB RAMP, AS PER PLAN  
(TYP. ALL DETAIL SHEETS)



DETECTABLE WARNING INSERT DETAIL



TYPE D11-B

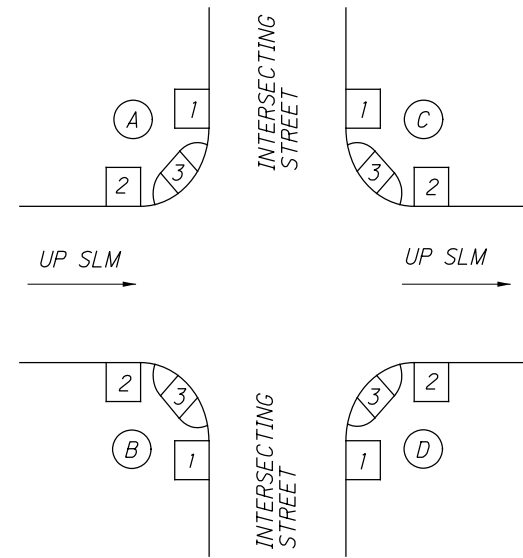
NOTES:

- SEE SCD BP-7.1 FOR ADDITIONAL DETAILS, SECTIONS, NOTES, AND OTHER CURB RAMP DESIGNS NOT PROVIDED ON THIS SHEET.
- THE CURB RAMP TYPE D11-B DESIGN IS USED TO PROVIDE THE REQUIRED MISSING DETECTABLE WARNING INSERT ON EXISTING CURB RAMPS WITHOUT REMOVING THE ENTIRE RAMP.

THE CURB RAMP TYPE D11-B IS TO BE CONSTRUCTED WITHIN EXISTING CURB RAMPS WHICH ARE COMPLIANT WITH STD. DWG. BP-7.1, AND MEET CURRENT ADA REQUIREMENTS, BUT ARE EITHER LACKING A DETECTABLE WARNING INSERT, OR POSSESS AN INSERT WHICH DOES NOT MEET CURRENT STANDARDS.

THE TYPE D11-B RAMP SHALL MATCH THE SLOPE OF THE EXISTING RAMP.

- THE NEW CURB RAMP SHALL BE 4'-6" MINIMUM (5'-0" PREFERRED) WIDE. THE DETECTABLE WARNING INSERT SHALL HAVE A THREE INCH MINIMUM BORDER ON THE SIDES. IF THE EXISTING SIDEWALK IS LESS THAN 4'-6" WIDE THE RAMP SHALL TAPER TO MEET THE EXISTING SIDEWALK WIDTH BEGINNING A MINIMUM OF SIX INCHES BEYOND THE BACKSIDE OF THE DETECTABLE WARNING INSERT.
- INSTALL A NEW RAMP WITH A CAST-IN-PLACE DETECTABLE WARNING INSERT IN THESE LOCATIONS AS PER SCD BP-7.1, DETAILS ON THIS SHEET, OR AS DIRECTED BY THE ENGINEER.



RAMP LOCATION  
DETAIL

ITEM 659 - SEEDING MISC.: CURB RAMP GRADING RESTORATION

THIS ITEM OF WORK CONSISTS OF REWORKING, OR RESHAPING THE GRADING ADJACENT TO THE NEW CURB RAMPS AND/OR WALK. THE CONTRACTOR SHALL SEED AND MULCH AS PER ITEM 659, AND PROVIDE ALL ADDITIONAL MATERIALS AND EQUIPMENT NECESSARY TO RESTORE THE GRADING TO THE SATISFACTION OF THE ENGINEER.

A QUANTITY OF ONE SQUARE FOOT PER LINEAR FOOT, PER SIDE WITH ACCOMPANYING GRADED BORDER, OF NEW RAMP, AND/OR WALK SHALL BE CALCULATED FOR THIS ITEM OF WORK. FINAL CONVERSION OF QUANTITIES FROM SQUARE FOOT TO SQUARE YARDS SHALL BE PERFORMED IN THE SUMMARY LEVEL. PAYMENT FOR THE AFOREMENTIONED WORK SHALL BE MADE AT THE UNIT PRICE BID FOR ITEM 659, SEEDING MISC.: CURB RAMP GRADING RESTORATION, SQ. YD., AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT, AND MATERIALS NECESSARY TO COMPLETE ALL WORK TO THE SATISFACTION OF THE ENGINEER.

ESTIMATED QUANTITIES

REFERENCE NO.	SHEET NO	PART	COUNTY	ROUTE	SLM	INTERSECTION PUBLIC ROAD	CURB RAMP LOCATION	CURB RAMP TYPE	DIMENSION A, OR LANDING LENGTH	DIMENSION B	AVG. WIDTH OF SIDEWALK OR LANDING	202		608	659	COMMENTS
												CURB REMOVED	WALK REMOVED	CURB RAMP	SEEDING MISC.: CURB RAMP GRADING RESTORATION	
									FT	FT	FT	FT	SQ FT	SQ FT	SQ YD	
CR-1	48	2	COL	RAMP C	1.26	S.R. 39	A2	B3	12		4	9	41	40	3	
CR-2	48	2	COL	RAMP C	1.26	S.R. 39	B2	B3	12.5		4	14	33	33	3	
CR-3	48	2	COL	RAMP D	1.26	S.R. 39	A2	B3	11		4	14	37	36	3	
CR-4	48	2	COL	RAMP D	1.26	S.R. 39	B2	B3	10		5.5	12	39	39	3	
CR-5	49	2	COL	RAMP B	3.06	WELLS AVE EXT.	C3	B3	11		4.5	14	45	45	3	
SUBTOTAL PART 2												63	195	193	15	PART 2 (01/ NHS/ PV)
CR-6	14	4	JEF	REST AREA				A2/A2	4.5		4	12	56	71	3	INCLUDE 5' WALK BTWN RAMPS
CR-7	14	4	JEF	REST AREA				A2/A2	4.5		4	12	56	71	3	INCLUDE 5' WALK BTWN RAMPS
CR-8	14	4	JEF	REST AREA				D11-B	3		5	5	13	15		INSTALL TRUNCATED DOMES
CR-9	14	4	JEF	REST AREA				D11-B	3		10	10	23	28		INSTALL TRUNCATED DOMES
CR-10	14	4	JEF	REST AREA				D11-B	3		10	10	23	27		INSTALL TRUNCATED DOMES
SUBTOTAL PART 4												49	171	212	6	PART 4 (03/ NFA/ PV)
TOTALS CARRIED TO GENERAL SUMMARY												112	366	405	21	

CALCULATED  
SAH  
CHECKED  
DAH

CURB RAMP DETAILS AND ESTIMATED QUANTITIES

JEF / COL-7 -31.13/ 0.00

39  
53

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ITEM 621 - RAISED PAVEMENT MARKER REMOVED

EXISTING RAISED PAVEMENT MARKERS SHALL BECOME THE PROPERTY OF THE CONTRACTOR FOR DISPOSAL OFF THE PROJECT. THE REQUIREMENT TO FILL THE DEPRESSIONS SHALL BE WAIVED. THE QUANTITY TO REMOVE THE EXISTING RAISED PAVEMENT MARKERS HAS BEEN CARRIED WITH THE TRAFFIC CONTROL QUANTITIES ON SHEET 45.

ITEM 646 - TRANSVERSE/DIAGONAL LINE, AS PER PLAN

WORK FOR THIS ITEM SHALL COMPLY WITH ITEM 646 AND STD DWG. TC-71.10 EXCEPT THE LINE WIDTH SHALL BE 4" AND SPACING SHALL BE 6'.

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.

ITEM 630 - OVERHEAD SIGN SUPPORT MODIFICATION, AS PER PLAN

OVERHEAD EXISTING TRUSS SIGN SUPPORTS SHALL BE MODIFIED AS SHOWN IN THE PLANS. THE MODIFICATION SHALL CONSIST OF REPLACING THE EXISTING TRUSS END FRAME POLES AS SHOWN ON THE SIGN ELEVATION DETAILS ON SHEET 52. THE END FRAME SHALL BE PER THE STANDARD DRAWING TC-7.65.

WORK FOR THIS ITEM SHALL INCLUDE THE REMOVAL AND RE-ERECTION OF THE EXISITNG OVERHEAD TRUSS AND SIGNS.

IT WILL BE THE CONTRACTORS RESPONSIBILITY TO CONFIRM THE EXISTING FOUNDATION ELEVATIONS, AND BOLT PATTERNS PRIOR TO ORDERING THE NEW END FRAME POLES.

PAYMENT FOR ALL MATERIAL, PARTS, EQUIPMENT AND LABOR, NECESSARY TO PERFORM THE ABOVE DESCRIBE WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR FOR ITEM 630, OVERHEAD SIGN SUPPORT MODIFICATION, AS PER PLAN

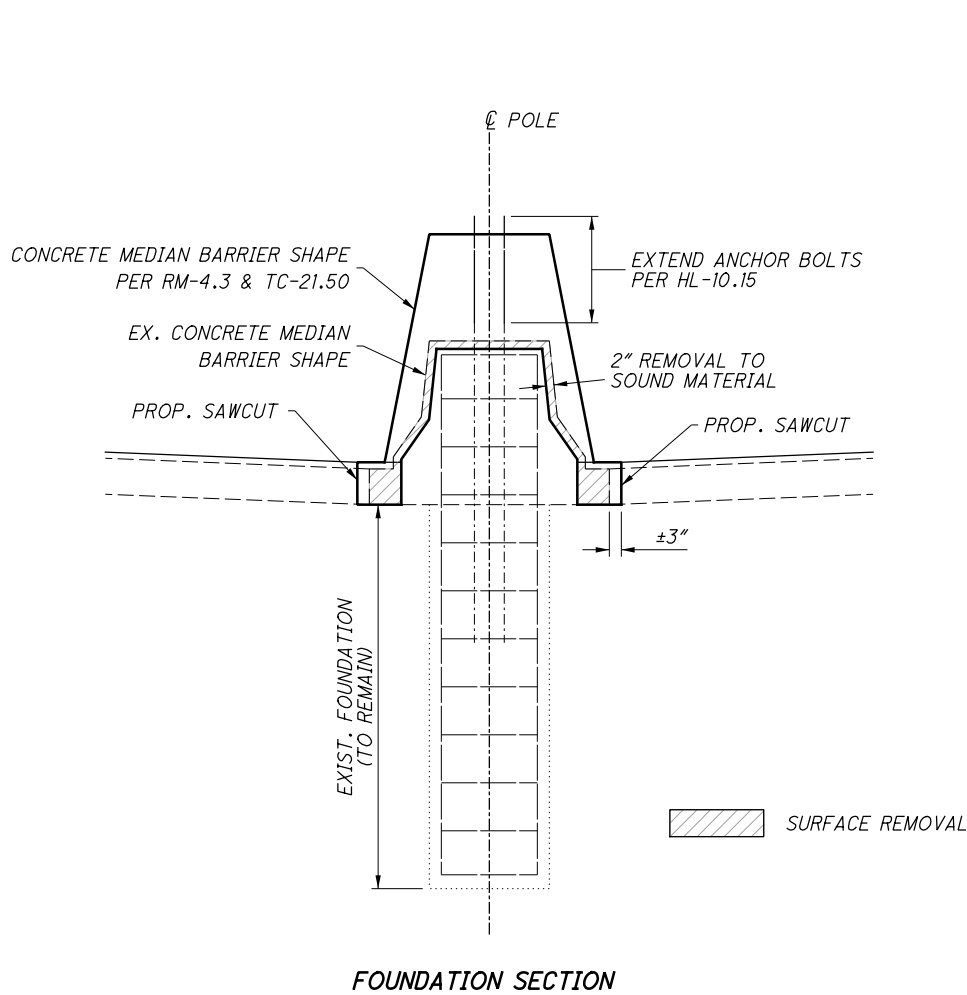
REFER TO THE SIGNING ELEVATION DETAILS FOR LOCATIONS.

ITEM 630 - CONCRETE BARRIER MEDIAN OVERHEAD SIGN SUPPORT FOUNDATION, TC-7.65, AS PER PLAN

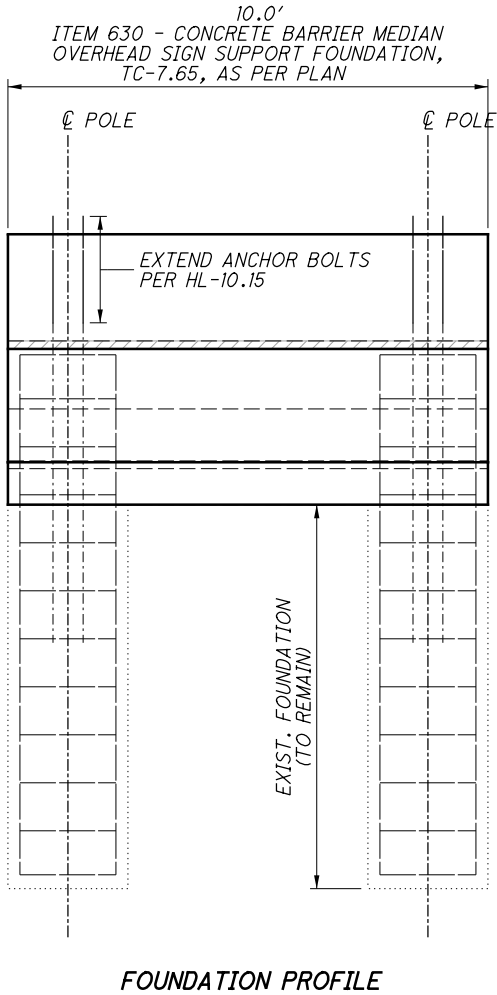
THE EXISTING MEDIAN BARRIER OVERHEAD SIGN SUPPORT FOUNDATIONS SHALL REMAIN IN PLACE. THE EXISTING CONCRETE BARRIER SHAPE SHALL BE MODIFIED TO MATCH THE PROPOSED CONCRETE MEDIAN BARRIER TYPE B1 SHAPE AS SHOWN AS SHOWN IN THE FOUNDATION MODIFICATION DETAIL. WORK FOR THIS ITEM SHALL CONSIST OF REMOVAL OF 2" OF THE EXISTING MEDIAN BARRIER SURFACE TO SOUND MATERIAL, REMOVAL OF THE FOOTER TO SOUND MATERIAL, AND RESHAPING THE EXISTING MEDIAN BARRIER TO A SINGLE SLOPE BARRIER PER RM-4.3.

PAYMENT FOR ALL MATERIAL, PARTS, EQUIPMENT AND LABOR, NECESSARY TO PERFORM THE ABOVE DESCRIBE WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR FOR ITEM 614, CONCRETE BARRIER MEDIAN OVERHEAD SIGN SUPPORT FOUNDATION, TC-7.65, AS PER PLAN.

FOR LOCATIONS, SEE SHEET 52.



SURFACE REMOVAL



FOUNDATION MODIFICATION DETAIL

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CALL-OUT	SLM		LOCATION	DETAIL SHEET	646																	COMMENTS
					12" CHANNELIZING LINE	8" CHANNELIZING LINE (WHITE)	8" CHANNELIZING LINE (YELLOW)	STOP LINE	6" DOTTED LINE (WHITE)	TRANSVERSE/DIAGONAL LINE (WHITE)	TRANSVERSE/DIAGONAL LINE (YELLOW)	CHEVRON MARKING (WHITE)	ISLAND MARKING (YELLOW)		LANE ARROW		CENTER LINE, DOUBLE SOLID	EDGE LINE, 6" (WHITE)	EDGE LINE, 6" (YELLOW)	LANE LINE		
	FROM	TO			FT	FT	FT	FT	FT	FT	FT	SQ FT		EACH		MILE	MILE	MILE	MILE			
	31.13	34.55	NB SR 7														3.42	3.42	3.42			
	31.13	34.55	SB SR 7														3.42	3.42	3.42			
TD-1	33.6	33.68	NB SR 7	46							136											
DL-1	33.65	33.66	NB SR 7	46					72													
CH-1	33.66	33.68	NB SR 7	46		72																
LA-1	33.66		NB SR 7	46										1								
LA-2	33.68		NB SR 7	46										1								
IP-1	33.68		SR 7	46								29										
DL-2	33.68	33.7	SB SR 7	46					118													
IP-2	33.7		SR 7	46																		
CH-2	33.7	33.74	SB SR 7	46		243																
TD-2	33.7	33.8	SB SR 7	46							461											
LA-3	33.7		SB SR 7	46										1								
LA-4	33.72		SB SR 7	46										1								
LA-5	33.73		SB SR 7	46										1								
DL-3	33.74	33.77	SB SR 7	46					154													
SUBTOTAL PART 1 - CARRIED TO SHEET 44					0	315	0	0	344	0	597	0	29		5		0	6.84	6.84	6.84		PART 1 (01/NHS/PV)
	0.00	3.56	NB SR 7														3.56	3.56	3.56			
	0.00	3.56	SB SR 7														3.56	3.56	3.56			
	0.79	1.07	NB SR 7																0.28			
	0.9	1.11	SB SR 7																0.21			
	CLARK AVE. INTERCHANGE																					
	TERMINAL AND GORE				340				830													
	0.37	0.58															0.21	0.21				
	0.58	0.66													0.08		0.08	0.08				
TD-3	0.66	0.68		47						48												
CH-3	0.66	0.68		47		226																
IP-3	0.68			47								10										
	0.7	0.8															0.2	0.2				
IP-4	0.7			47								48										
IP-5	0.8			47								48										
	TERMINAL & GORE (S.R. 7)				384				512			120										
	0.54	0.66															0.12	0.12				
	TERMINAL & GORE (RAMP A)			47		310			590	65												
	0.66	0.74															0.16	0.16				
	TERMINAL AND GORE				260																	
	0.55	0.66														0.11	0.11	0.11				
SL-1	0.56			47				25														
	0.66	0.87															0.21	0.21				
SL-2	0.66			47				14														
	TERMINAL AND GORE				350							120										
SUBTOTAL PART 2 - CARRIED TO SHEET 44					1334	310	226	39	1932	65	48	240	106		0		0.19	8.21	8.21	7.61		PART 2 (01/NHS/PV)

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CALL - OUT	SLM		LOCATION	DETAIL SHEET	646																COMMENTS	
					12" CHANNELIZING LINE			STOP LINE	6" DOTTED LINE (WHITE)			CHEVRON MARKING (WHITE)			WRONG WAY ARROW		EDGE LINE, 6" (WHITE)	EDGE LINE, 6" (YELLOW)				
	FROM	TO			FT			FT	FT			FT			EACH		MILE	MILE				
	S.R. 39 INTERCHANGE																					
	1.25	1.4	RAMP A @ SR 39													0.15	0.15					
SL-3	1.26			48				43														
LA-6	1.26			48										1								
	TERMINAL AND GORE				440				600			120										
	1.28	1.43	RAMP B @ SR 39													0.15	0.15					
	TERMINAL AND GORE					500				900												
	TERMINAL AND GORE		RAMP C @ SR 39		654							120										
	1.15	1.27															0.12	0.12				
LA-7	1.26			48										1								
SL-4	1.26			48				48														
	TERMINAL AND GORE		RAMP D @ SR 39		500																	
	1.11	1.26															0.15	0.15				
SUBTOTAL PART 2 - CARRIED TO SHEET 44					2094			91	1500			240			2		0.57	0.57				PART 2 (01/ NHS/ PV)

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CALL-OUT	SLM		LOCATION	DETAIL SHEET	646																	COMMENTS
					12" CHANNELIZING LINE	8" CHANNELIZING LINE (WHITE)		STOP LINE	6" DOTTED LINE (WHITE)			CHEVRON MARKING (WHITE)	ISLAND MARKING (YELLOW)	LANE ARROW	WRONG WAY ARROW	CENTER LINE, DOUBLE SOLID	EDGE LINE, 6" (WHITE)	EDGE LINE, 6" (YELLOW)				
	FROM	TO			FT	FT		FT	FT			FT	SQ FT	EACH	EACH	MILE	MILE	MILE				
	S.R. 45 INTERCHANGE																					
	TERMINAL AND GORE				590				520			120										
	2.44	2.64	LISBON ST. RAMP													0.2	0.2					
LA-8	2.62			49										1								
SL-5	2.62			49			16															
	TERMINAL AND GORE		RAMP D @ SR 45		320				950													
	2.63	2.82															0.19	0.19				
			RAMP A @ SR 45														0.02	0.02				
	3.01	3.03																				
IP-7	3.01			49								42										
	3.03	3.08															0.05	0.05				
IP-8	3.03			49								54										
CH-5	3.03	3.06		49		147																
	3.08	3.21														0.13	0.13					
LA-10	3.08		49											1								
	TERMINAL AND GORE				750				420			120										
	3.02	3.03	RAMP A TO WELLS EXT.														0.01	0.01				
SL-6	3.02			49			12															
LA-9	3.02			49										1								
CH-6	3.03	3.06		49		67																
IP-9	3.02		49								46											
	3.02	3.08	TR 966 ACCESS														0.06	0.06				
SL-7	3.08			49			33															
IP-10	3.08			49							49											
	3.02	3.06	RAMP B @ SR 45												0.04							
IP-11	3.06			49								100										
SL-8	3.06			49			44															
	3.06	3.2															0.14	0.14				
	TERMINAL AND GORE				620				930													
	WELLS AVE. EXT.			49												0.01						
DL-5	3.41	3.48	NB SR 7	50					390													
IP-12	3.43		NB SR 7	50							39											
CH-7	3.48	3.51	NB SR 7	50		134																
LA-12	3.48		NB SR 7	50									1									
LA-13	3.49		NB SR 7	50									1									
LA-14	3.5		NB SR 7	50									1									
IP-13	3.51		NB SR 7	50							18											
SL-9	C.R. 427 - KOUTZ AVE.			50			20															
IP-14	3.53		NB SR 7	50							67											
CH-8	3.53	3.56	SB SR 7	50		126																
LA-15	3.53		SB SR 7	50									1									
LA-16	3.56		SB SR 7	50									1									
SUBTOTAL PART 2 - CARRIED TO SHEET 44					2280	474		125	3210			240	415	5	3	0.05	0.80	0.80			PART 2 (01/NHS/PV)	

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CALL-OUT	SLM		LOCATION	DETAIL SHEET	630				646																		COMMENTS
					REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	GROUND MOUNTED SUPPORT, NO. 2 POST	SIGN, FLAT SHEET	12" CHANNELIZING LINE	8" CHANNELIZING LINE (WHITE)	8" CHANNELIZING LINE (YELLOW)	STOP LINE	6" DOTTED LINE (WHITE)	TRANSVERSE/ DIAGONAL LINE (WHITE)	TRANSVERSE/ DIAGONAL LINE (YELLOW)	TRANSVERSE/ DIAGONAL LINE, AS PER PLAN (WHITE)	CHEVRON MARKING (WHITE)	ISLAND MARKING (YELLOW)	LANE ARROW	WRONG WAY ARROW	CENTER LINE, DOUBLE SOLID	EDGE LINE, 6" (WHITE)	EDGE LINE, 6" (YELLOW)	LANE LINE	PARKING LOT STALL MARKING	HANDICAP SYMBOL MARKING	
	EACH	EACH			FT	SQ FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	SQ FT	EACH	EACH	MILE	MILE	MILE	MILE	FT	EACH		
	PARK AND RIDE																										
PL-1				51																				487			
SY-1				51																					1		
TD-4				51											28												
	SIGN CODE	SIZE (INCHES)																									
S-1	REMOVAL			51	1	1																					
	R7-8-12	12 x 18					13.2	1.5																			
	R7-8a-12	12 x 6						0.5																			
	R7-H8bP-12	12 x 6						0.5																			
SUBTOTAL PART 3					1	1	13.2	2.5							28									487	1	PART 3 (02/ NFA/ PV)	
	REST AREA																										
PL-2				51																				360			
PL-3				51																				360			
PL-4				51																				800			
TD-5				51											37												
TD-6				51											28												
TD-7				51											88												
TD-8				51											41												
TD-9				51											108												
SY-3				51																					1		
SY-4				51																					1		
SUBTOTAL PART 4														302										1520	2	PART 4 (03/ NFA/ PV)	
PART 1 SUBTOTAL CARRIED FROM SHEET 41					0	0	0	0	0	315	0	0	344	0	597	0	0	29	5	0	0	6.84	6.84	6.84	0	0	PART 1 (01/NHS/PV)
PART 2 SUBTOTAL CARRIED FROM SHEET 41					0	0	0	0	1334	310	226	39	1932	65	48	0	240	106	0	0	0.19	8.21	8.21	7.61	0	0	PART 2 (01/NHS/PV)
PART 2 SUBTOTAL CARRIED FROM SHEET 42					0	0	0	0	2094	0	0	91	1500	0	0	0	240	0	0	2	0	0.57	0.57	0	0	0	PART 2 (01/NHS/PV)
PART 2 SUBTOTAL CARRIED FROM SHEET 43					0	0	0	0	2280	474	0	125	3210	0	0	0	240	415	5	3	0.05	0.80	0.80	0	0	0	PART 2 (01/NHS/PV)
SUBTOTAL PART 1 & PART 2					0	0	0	0	5708	1325		255	6986	710	0	720	550	10	5	0.24	32.84	14.45	0	0	0	PART 1 & PART 2 (01/ NHS/ PV)	
TOTALS CARRIED TO GENERAL SUMMARY					1	1	13.2	2.5	5708	1325		255	6986	710	330	720	550	10	5	0.24	32.84	14.45	2007	3			

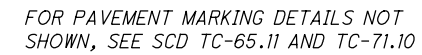


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LOCATION	SLM		SPACING	621				COMMENTS
				RPM			RAISED PAVEMENT MARKER REMOVED	
				2 - WAY, YELLOW/YELLOW	2 - WAY, WHITE/RED	2 - WAY, YELLOW/RED		
	FROM	TO		EACH	EACH	EACH	EACH	
JEFFERSON CO. - PART 1 (01/ NHS/ PV)								
	S.R. 7 - NORTHBOUND							
MAINLINE	31.13	34.55	80		227		227	
TURN LANE TRANSITION	33.6	33.68	80/40			9		
S.R. 213 LEFT TURN	33.66	33.68	40		3		3	
TURN LANE TRANSITION	33.7	33.8	80/40			10		
	S.R. 7 - SOUTHBOUND							
MAINLINE	31.13	34.55	80		227		227	
S.R. 213 RIGHT TURN	33.7	33.75	40		7		7	
SUBTOTAL CARRIED TO COLUMN B				0	464	19	464	PART 1 (01/ NSA/ PV)
COLUMBIANA CO. - PART 2 (01/ NHS/ PV)								
	S.R. 7 - NORTHBOUND							
MAINLINE	0	3.56	80		235		235	
	0.79	1.07	80		19		19	
C.R. 427 - LEFT TURN	3.48	3.51	40		4		4	
	S.R. 7 SOUTHBOUND							
MAINLINE	0	3.56	80		235		235	
	0.9	1.11	80		14		14	
C.R. 427 - RIGHT TURN	3.53	3.56	40		5		5	
	RAMP A - CLARK AVE.							
TERMINAL AT SR 7			40		5		5	
	0.37	0.58	80			14	14	
	0.58	0.69	80	8			8	
	RAMP B - CLARK AVE.							
TERMINAL AT SR 7			40		11		11	
	0.54	0.66	80			8	8	
TERMINAL AT RAMP A			40		4		4	
	RAMP C - CLARK AVE.							
	0.66	0.74	80			6	6	
TERMINAL AT SR 7			40		4		4	
	RAMP D - CLARK AVE.							
	0.55	0.66	80	8			8	
	0.66	0.83	80			12	12	
	0.83	0.87	40		6	6	3	
TERMINAL AT SR 7			40		9		9	
SUBTOTAL CARRIED TO COLUMN B				16	551	46	604	PART 2 (01/ NSA/ PV)

LOCATION	SLM		SPACING	621				COMMENTS
				RPM			RAISED PAVEMENT MARKER REMOVED	
				2 - WAY, YELLOW/YELLOW	2 - WAY, WHITE/RED	2 - WAY, YELLOW/RED		
	FROM	TO		EACH	EACH	EACH	EACH	
COLUMBIANA CO.								
	RAMP A - S.R. 39							
	1.25	1.33	80		6	6	3	
	1.33	1.4	80			5	5	
TERMINAL AT SR 7			40		11		11	
	RAMP B - S.R. 39							
	1.28	1.43	80			10	10	
TERMINAL AT SR 7			40		7		7	
	RAMP C - S.R. 39							
TERMINAL AT SR 7			40		18		18	
	1.15	1.19	80			3	3	
	1.19	1.27	80		6	6	3	
	RAMP D - S.R. 39							
TERMINAL AT SR 7			40		7		7	
	1.11	1.26	80			10	10	
	LISBON ST. RAMP - S.R. 45							
TERMINAL AT SR 7			40		15		15	
	2.44	2.54	80			7	7	
	2.54	2.62	80		6	6	3	
	RAMP A - S.R. 45							
	3.08	3.13	40		7	7	4	
	3.13	3.21	80			6	6	
TERMINAL AT SR 7			40		20		20	
	RAMP B - S.R. 45							
	3.02	3.06	80	3				
	3.06	3.2	80			10	10	
TERMINAL AT SR 7			40		8		8	
	RAMP D - S.R. 45							
TERMINAL AT SR 7			40		5		5	
	2.63	2.82	80			13	13	
SUBTOTAL - COLUMN B				3	116	89	168	PART 2 (01/NSA/PV)
PART 1 - CARRIED FROM COLUMN A				0	464	19	464	PART 1 (01/NSA/PV)
PART 2 - CARRIED FROM COLUMN A				16	551	46	604	PART 2 (01/NSA/PV)
TOTALS CARRIED TO GENERAL SUMMARY				1304			1236	PART 1 & 2 (01/NSA/PV)

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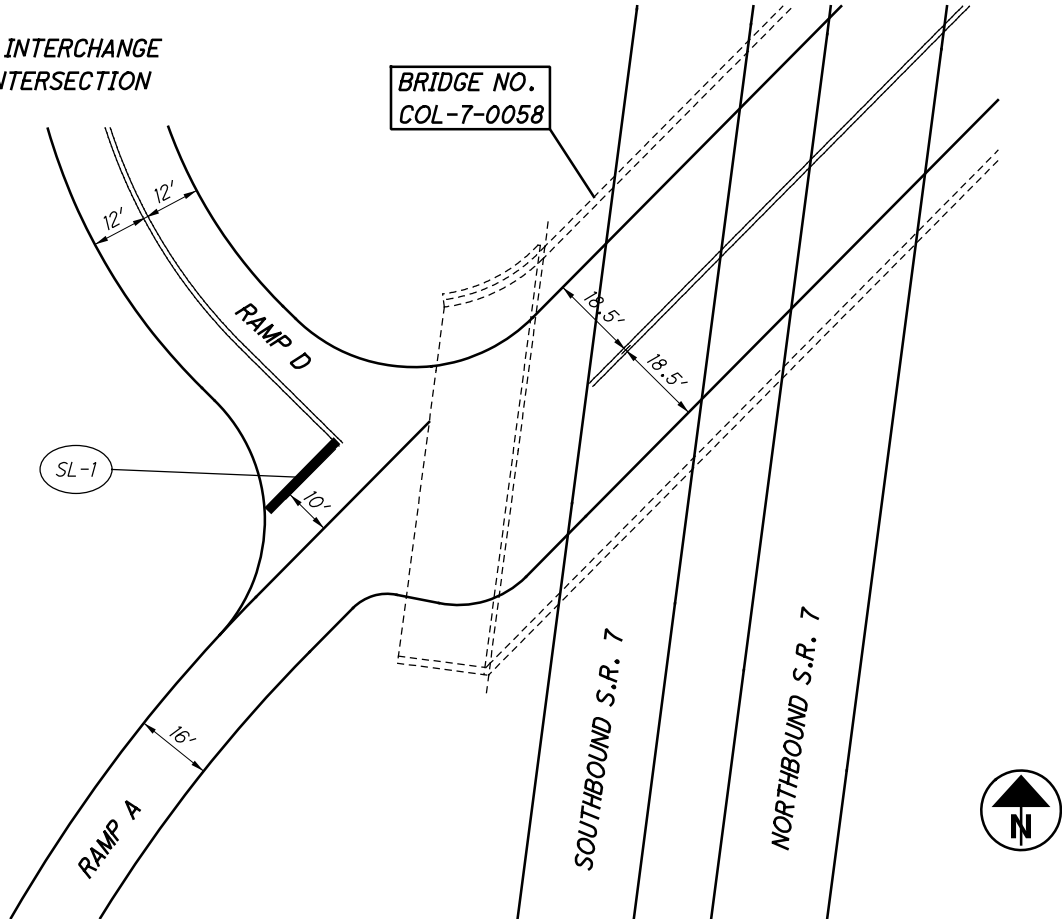
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$$\frac{46}{53}$$

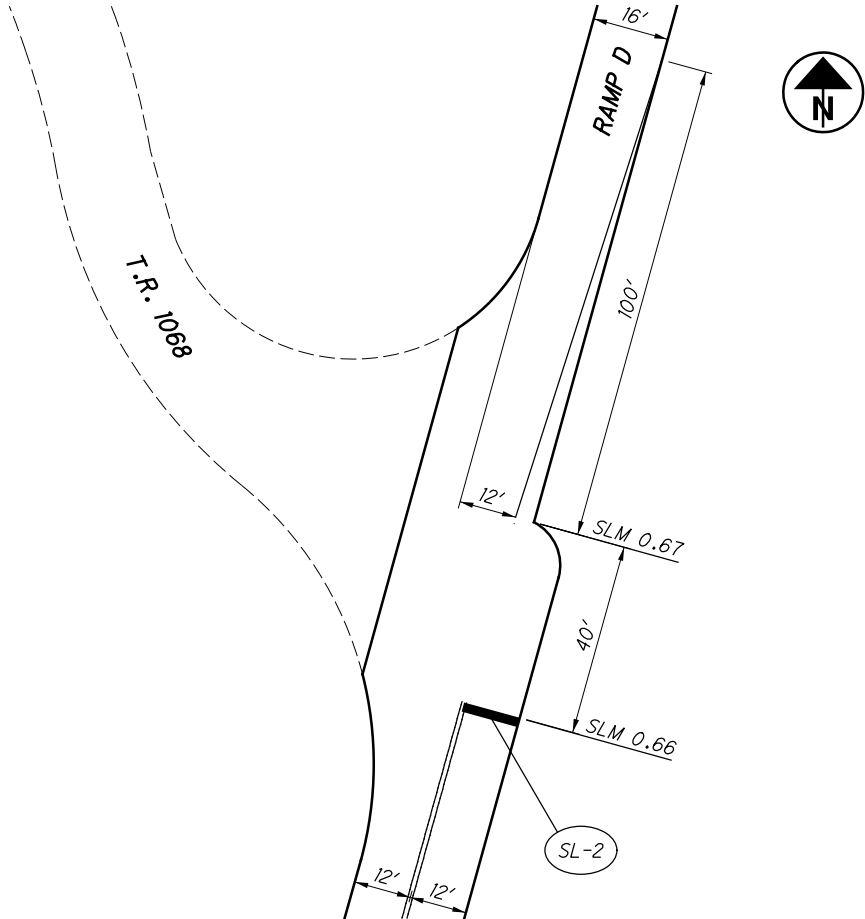
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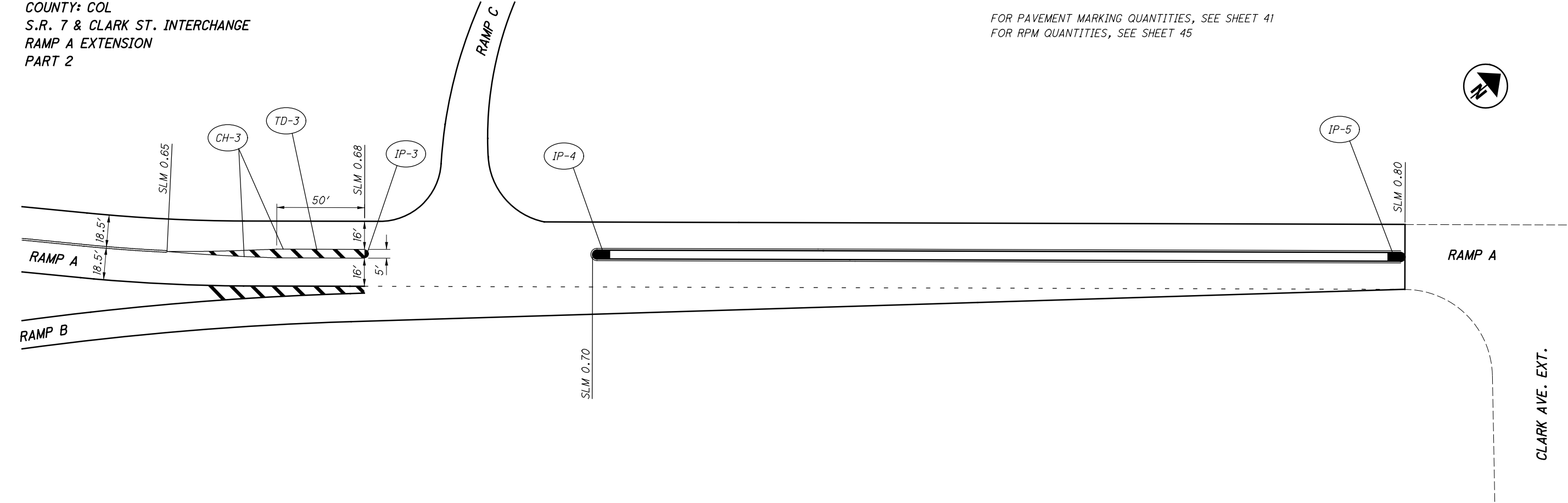
COUNTY: COL  
S.R. 7 & CLARK ST. INTERCHANGE  
RAMP A & RAMP D INTERSECTION  
PART 2



COUNTY: COL  
S.R. 7 & CLARK ST. INTERCHANGE  
RAMP D & T.R. 1068  
PART 2



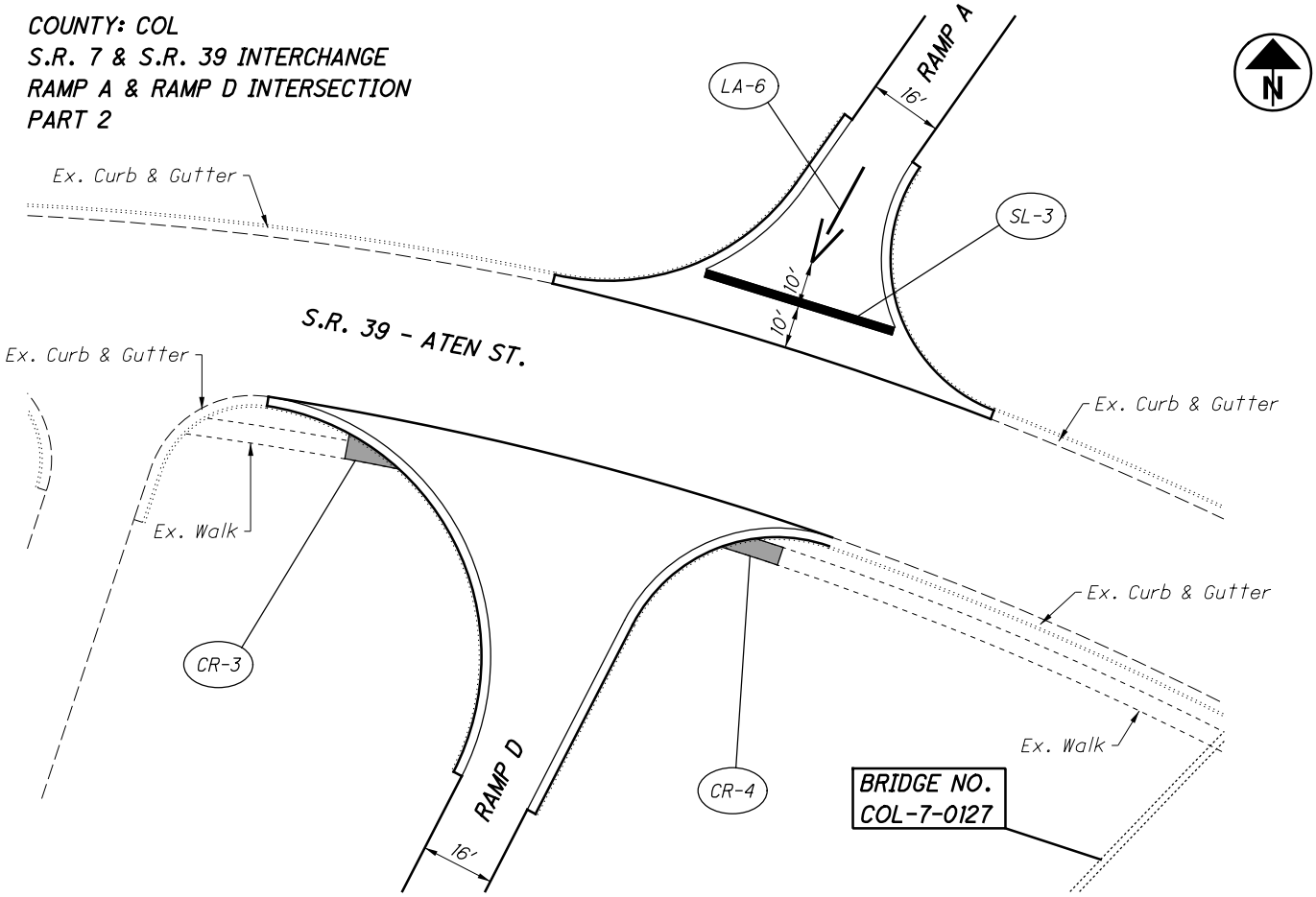
COUNTY: COL  
S.R. 7 & CLARK ST. INTERCHANGE  
RAMP A EXTENSION  
PART 2



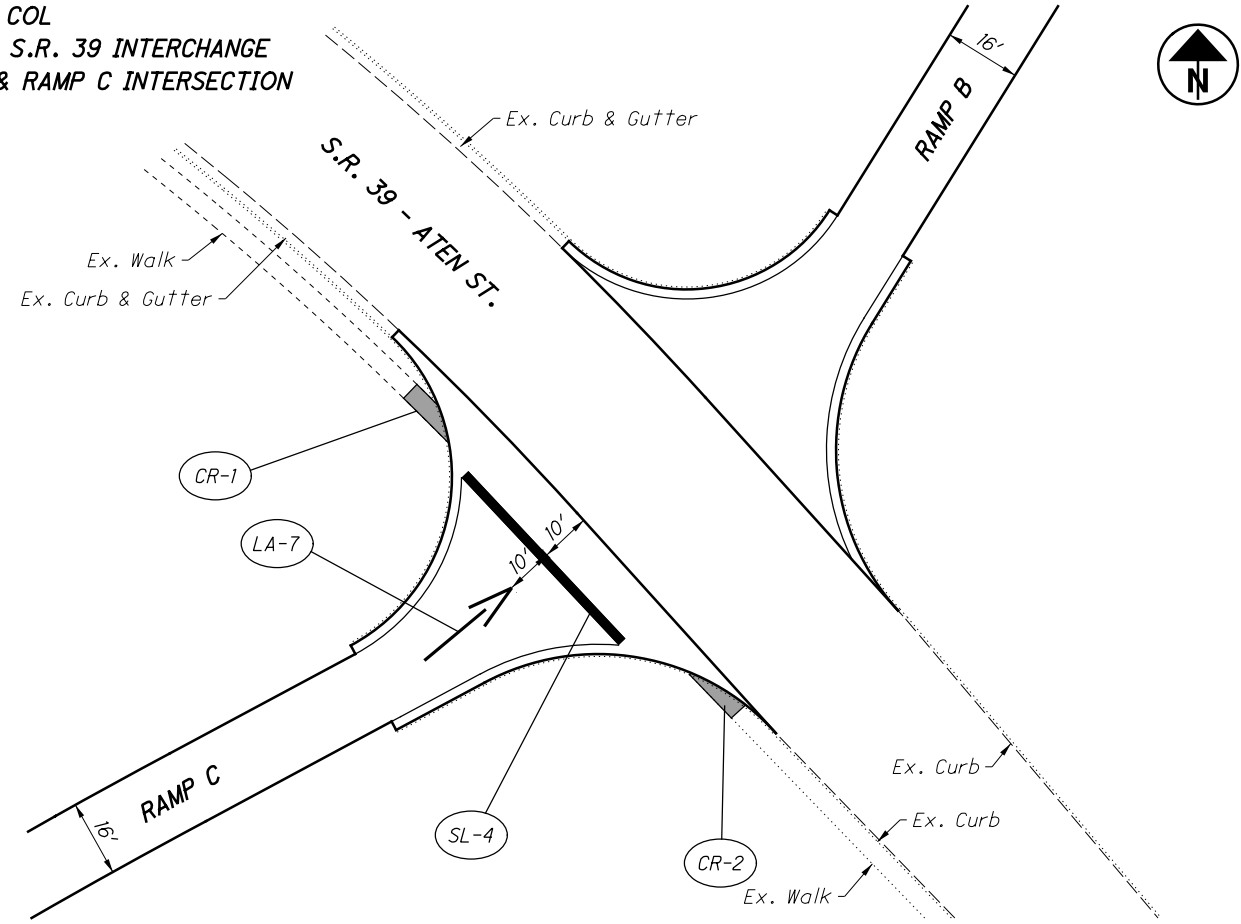
FOR PAVEMENT MARKING QUANTITIES, SEE SHEET 41  
FOR RPM QUANTITIES, SEE SHEET 45

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COUNTY: COL  
S.R. 7 & S.R. 39 INTERCHANGE  
RAMP A & RAMP D INTERSECTION  
PART 2

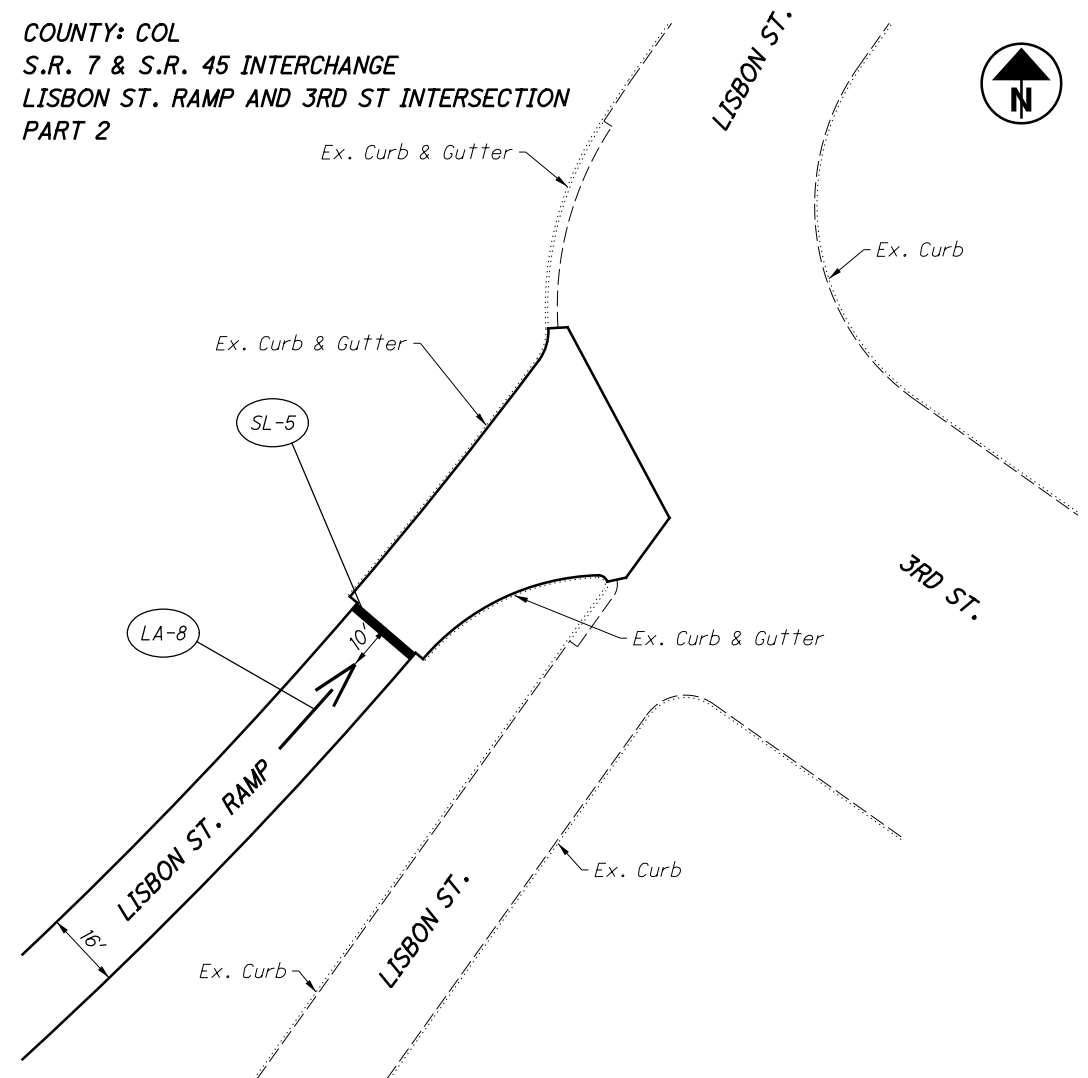


COUNTY: COL  
S.R. 7 & S.R. 39 INTERCHANGE  
RAMP B & RAMP C INTERSECTION  
PART 2

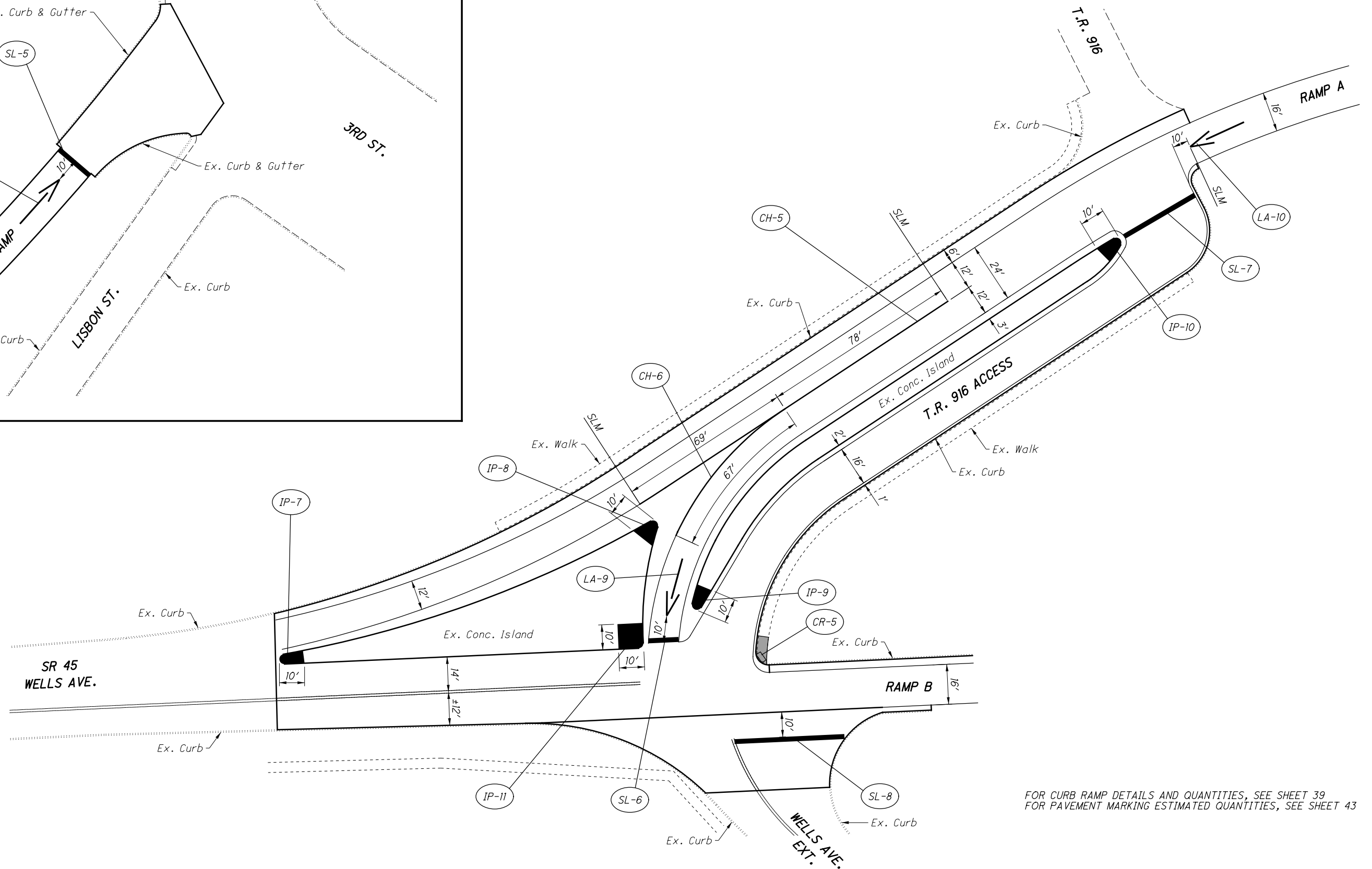


FOR CURB RAMP DETAILS AND QUANTITIES, SEE SHEET 39  
FOR PAVEMENT MARKING QUANTITIES, SEE SHEET 42  
FOR RPM QUANTITIES, SEE SHEET 45

COUNTY: COL  
S.R. 7 & S.R. 45 INTERCHANGE  
LISBON ST. RAMP AND 3RD ST INTERSECTION  
PART 2



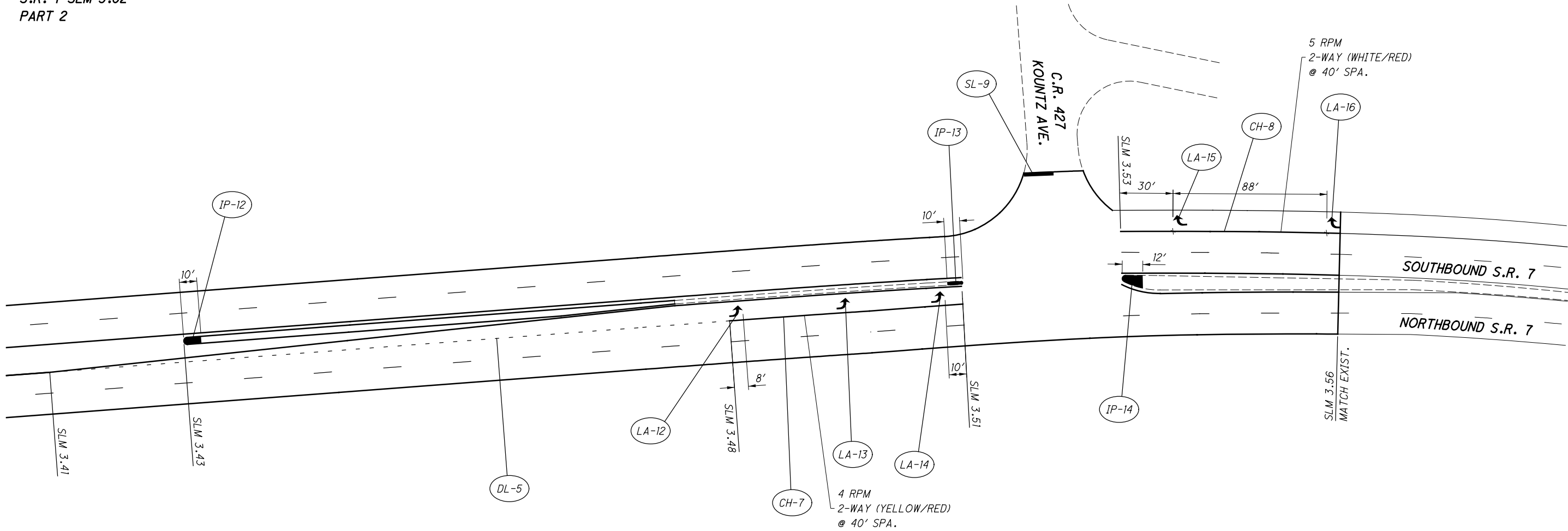
COUNTY: COL  
S.R. 7 & S.R. 45 INTERCHANGE  
RAMP A & RAMP B INTERSECTION  
PART 2



FOR CURB RAMP DETAILS AND QUANTITIES, SEE SHEET 39  
FOR PAVEMENT MARKING ESTIMATED QUANTITIES, SEE SHEET 43

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COUNTY: COL  
S.R. 7 & C.R. 427 (KOUNTZ AVE.) INTERSECTION  
S.R. 7 SLM 3.52  
PART 2



FOR PAVEMENT MARKING QUANTITIES, SEE SHEET 43  
FOR RPM QUANTITIES, SEE SHEET 45

PAVEMENT MARKING DETAILS

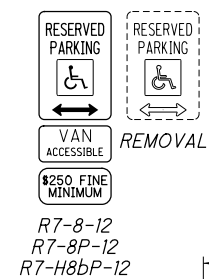
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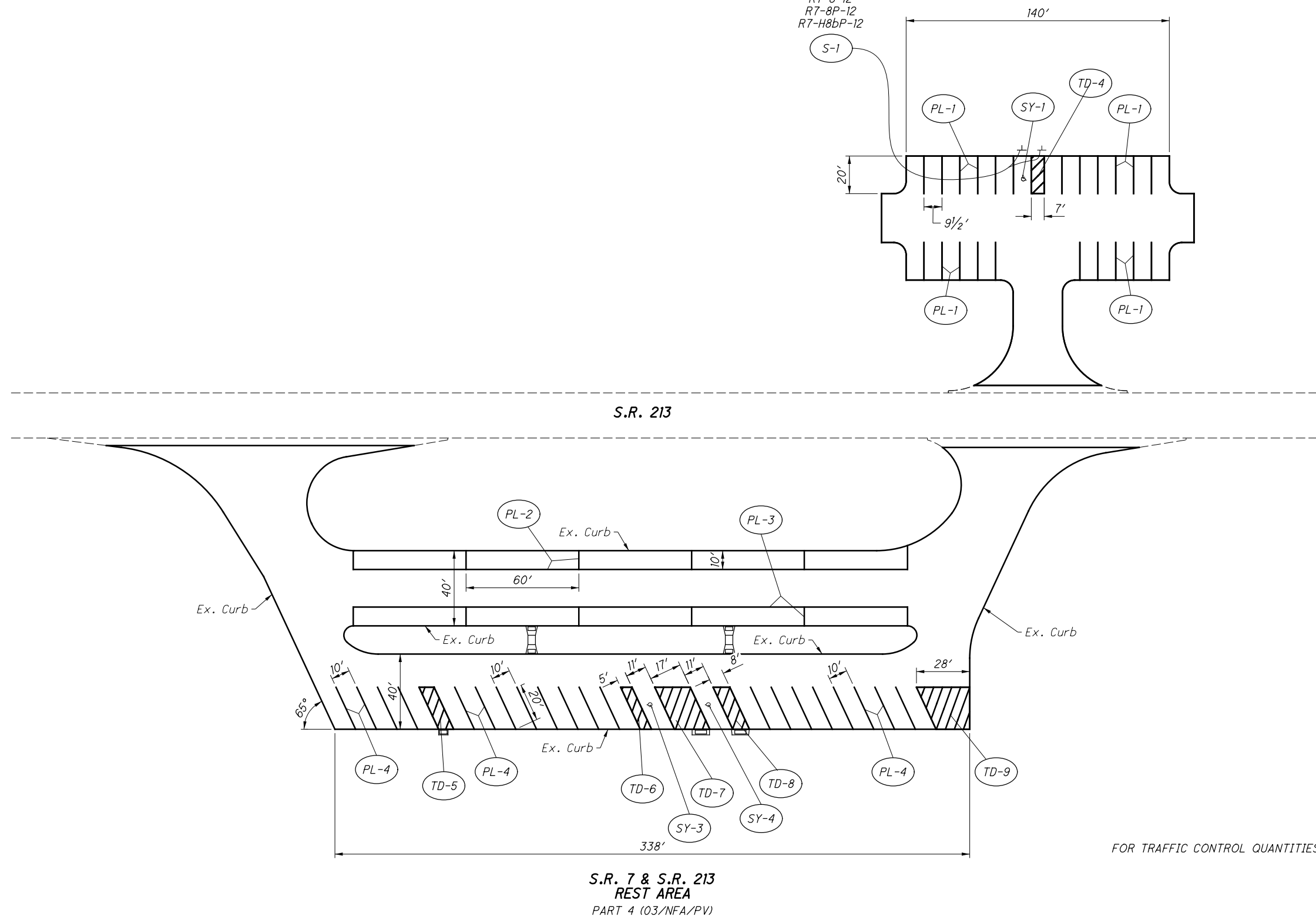
50  
53

COUNTY: JEF  
S.R. 7 & S.R. 213 REST AREA  
PART 4

COUNTY: JEF  
S.R. 7 & S.R. 213 REST AREA  
PART 4

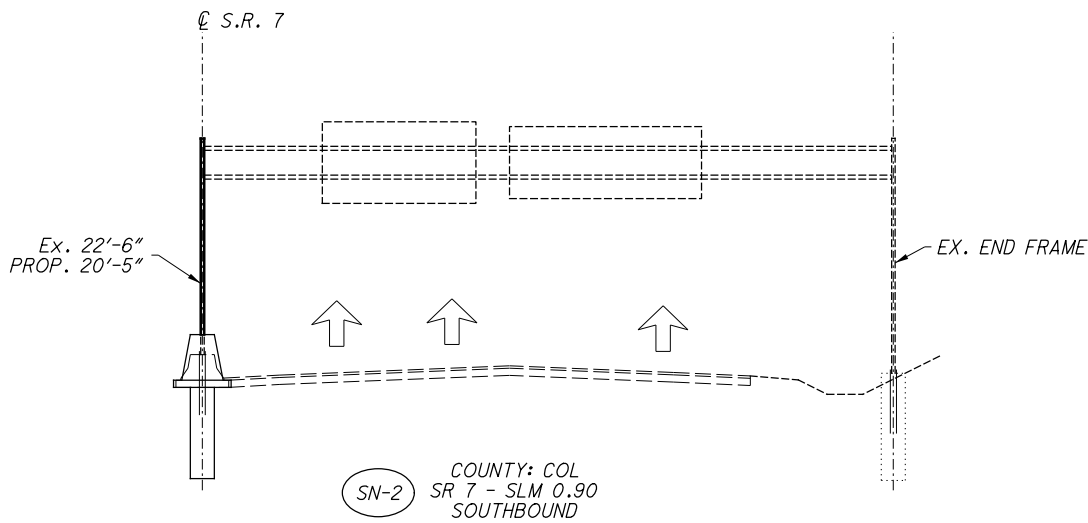
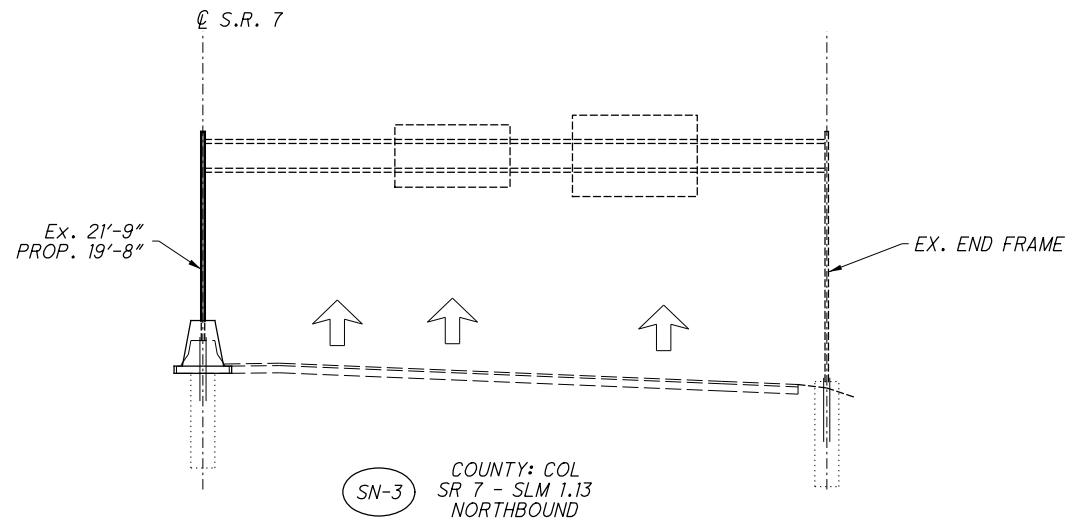
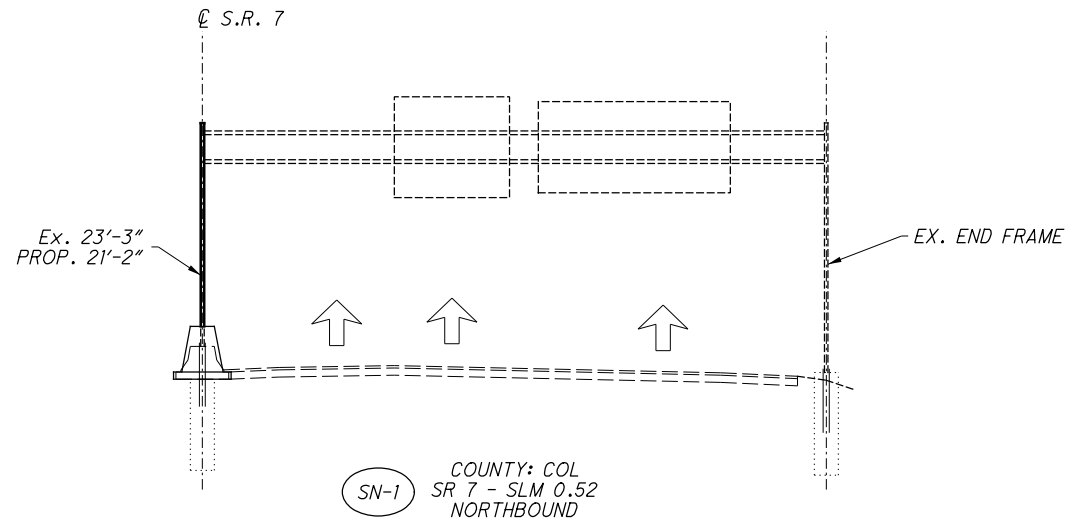


**S.R.7 & S.R. 213**  
**PARK AND RIDE**  
**PART 3 (02/NFA/PV)**



FOR TRAFFIC CONTROL QUANTITIES, SEE SHEET 44

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SIGNING ESTIMATED QUANTITIES							
CALL - OUT	SLM		LOCATION	630			COMMENTS
				CONCRETE BARRIER MEDIAN OVERHEAD SIGN SUPPORT FOUNDATION, TC-7.65	CONCRETE BARRIER MEDIAN OVERHEAD SIGN SUPPORT FOUNDATION, TC-7.65, AS PER PLAN	OVERHEAD SIGN SUPPORT MODIFICATION, AS PER PLAN	
	FROM	TO		EACH	EACH	EACH	
SN-1	0.52		NB SR 7	1		1	
SN-2	0.9		SB SR 7		1	1	
SN-3	1.13		NB SR 7	1		1	
TOTALS CARRIED TO GENERAL SUMMARY				2	1	3	PART 2 (01/NHS/PV)