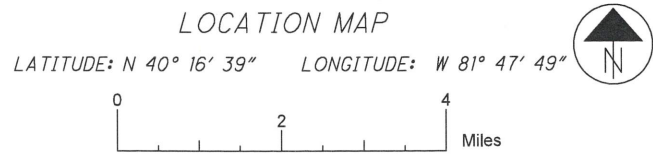
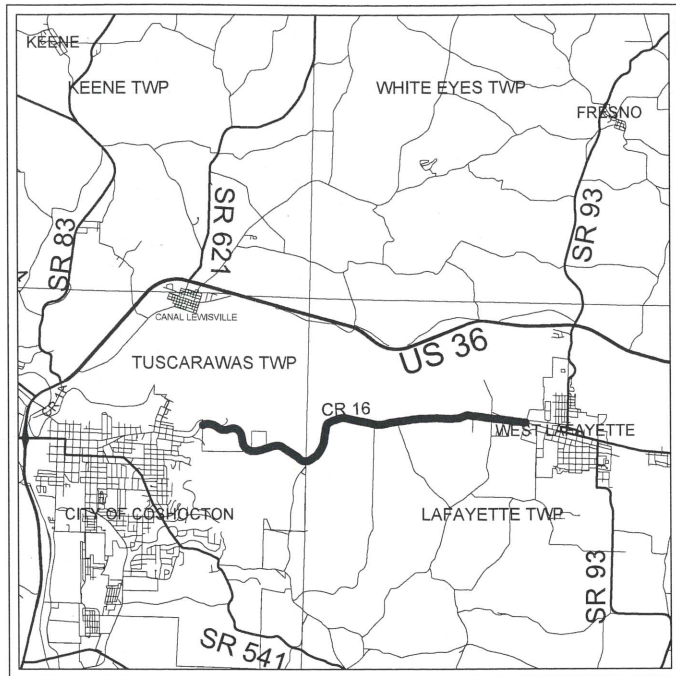


I:\PROJECTS\ODOT Projects\2026 CSTEP CR 16\Plans\Drawings\CR 16 - 1.88 Title Sheet.dwg 30-Apr-24 8:43 AM



LOCATION TO BE IMPROVED _____

FEDERAL AND STATE ROUTES _____

OTHER ROADS _____

DESIGN DESIGNATION

CURRENT ADT (2023) = 3528

DESIGN YEAR ADT (2023) = 4000

DESIGN FUNCTIONAL CLASSIFICATION = COS-CR 16-01.88 TO 3.30 URBAN MAJOR COLLECTOR
= COS-CR 16-3.30 TO 6.27 RURAL MAJOR COLLECTOR

LEGAL SPEED = 55 MPH COSHOCTON COUNTY

DESIGN EXCEPTIONS
NONE



COSHOCTON COUNTY
ENGINEER'S OFFICE
COS-CR 16-1.88
COSHOCTON COUNTY

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LOC	COUNTY	ROUTE	PROJECT TERMINI		NET LENGTH MILES
			BEGIN	END	
1A	COS	CR 16	01.88	3.30	1.42
1B	COS	CR 16	3.30	6.27	2.97

PROJECT DESCRIPTION
THIS PROJECT CONSISTS OF ASPHALT CONCRETE RESURFACING,
STRIPING, MILLING AND RELATED WORK ON COUNTY ROAD 16 IN
COSHOCTON COUNTY

PROJECT EARTH DISTURBED AREA =
N/A *MAINTENANCE PROJECT*

ESTIMATE CONTRACTOR EARTH DISTURBED AREA =
N/A *MAINTENANCE PROJECT*

NOTICE OF INTENT EARTH DISTURBED AREA =
N/A *MAINTENANCE PROJECT*

2023 SPECIFICATIONS

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

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

Dane R. Shyer 5-6-24
COSHOCTON COUNTY COMMISSIONER DATE

Dan D. Dwyer 5-6-24
COSHOCTON COUNTY COMMISSIONER DATE

R. D. Lee 5-6-24
COSHOCTON COUNTY COMMISSIONER DATE

Fredrick J. Hachtel 5/2/24
COSHOCTON COUNTY ENGINEER DATE

THE STANDARD CONSTRUCTION DRAWINGS LISTED ON THESE PLANS SHALL BE CONSIDERED A PART THEREOF

ENGINEERS SEAL	STANDARD CONSTRUCTION DRAWINGS	SUPPLEMENTAL SPECIFICATIONS
	BP-3.1 1-19-24 TC-64.10 7-21-23 MT-95.31 7-19-19 800 1-16-25	
	BP-4.1 7-19-13 TC-65.10 1-17-14 MT-95.32 4-19-19 832 7-21-23	
	BP-9.1 1-18-19 TC-65.11 1-19-24 MT-97.10 4-19-19 1055 7-15-22	
		MT-97.12 1-20-17
		MT-99.20 4-19-19
		MT-101.90 7-17-20
		MT-105.10 1-17-20
SIGNED: <i>Joshua D. Kempf</i> DATE: 5/2/2024		



PLANS PREPARED BY COSHOCTON COUNTY ENGINEER'S OFFICE

FAN:
E240538

PID NO.
113995

CONSTRUCTION PROJECT NO.

RAILROAD INVOLVEMENT
NONE

COS-CR 16-1.88

1
8

SPECIFICATIONS

THE 2023 CONSTRUCTION AND MATERIALS SPECIFICATIONS OF THE OHIO DEPARTMENT OF TRANSPORTATION, INCLUDING ALL SUPPLEMENTS THERETO, AS WELL AS THE MANUFACTURER'S RECOMMENDATIONS FOR INSTALLATION SHALL GOVERN THE MATERIALS AND WORKMANSHIP TO COMPLETE THE IMPROVEMENTS SET FORTH IN THESE PLANS.

UTILITIES

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

SURVEYS

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PERFORMING ALL DETAIL SURVEYS NEEDED FOR CONSTRUCTION.

MODIFICATIONS

ANY MODIFICATIONS OR CHANGES TO THE WORK, AS SHOWN ON THE DRAWINGS, MUST HAVE PRIOR WRITTEN APPROVAL BY THE OHIO DEPARTMENT OF TRANSPORTATION (ODOT) AND THE APPROPRIATE JURISDICTION , COSHOCTON COUNTY OR THE CITY OF COSHOCTON.

REVIEW OF PROJECT SITE

PRIOR TO BIDDING, THE CONTRACTOR SHALL BY PERSONAL EXAMINATION SATISFY HIMSELF AS TO THE LOCATION OF THE PROPOSED WORK AND TO ACQUAINT HIMSELF THOROUGHLY WITH THE EXISTING CONDITIONS AND DIFFICULTIES THAT ARE LIKELY TO BE ENCOUNTERED IN THE PERFORMANCE OF THE PROPOSED WORK.

THE CONTRACTOR SHALL NOT BE DUE ANY ADDITIONAL PAYMENT OR COMPENSATION FOR FAILING TO RECOGNIZE AND ACCOUNT FOR IN HIS BID ANY INCONSISTENCY WITH THE PLANS OR OBSTRUCTIONS TO THE WORK THAT WOULD HAVE BEEN IDENTIFIED UPON REVIEW OF THE SITE.

IRON PINS AND MONUMENTS

THE CONTRACTOR SHALL REFERENCE ALL IRON PINS AND MONUMENTS BEFORE EXCAVATING AT OR NEAR THEM. IF ANY IRON PINS OR MONUMENTS ARE DESTROYED OR DAMAGED BY THE CONTRACTOR, THEY SHALL BE ACCURATELY REPLACED BY A REGISTERED SURVEYOR EMPLOYED BY THE CONTRACTOR AT THE COMPLETION OF THE PROJECT AND AT NO EXPENSE TO ODOT, THE COUNTY, THE CITY, OR THE PROPERTY OWNER.

IRON PINS AND MONUMENTS

THE CONTRACTOR SHALL REFERENCE ALL IRON PINS AND MONUMENTS BEFORE EXCAVATING AT OR NEAR THEM. IF ANY IRON PINS OR MONUMENTS ARE DESTROYED OR DAMAGED BY THE CONTRACTOR, THEY SHALL BE ACCURATELY REPLACED BY A REGISTERED SURVEYOR EMPLOYED BY THE CONTRACTOR AT THE COMPLETION OF THE PROJECT AND AT NO EXPENSE TO ODOT, THE COUNTY, THE CITY, OR THE PROPERTY OWNER.

SANITARY FACILITIES

THE CONTRACTOR SHALL FURNISH AND MAINTAIN SANITARY CONVENIENCE FACILITIES FOR THE WORKERS AND INSPECTORS FOR THE DURATION OF THE WORK.

SAFETY

THE CONTRACTOR SHALL SOLELY BE RESPONSIBLE FOR COMPLYING WITH ALL FEDERAL, STATE, AND LOCAL SAFETY REQUIREMENTS, TOGETHER WITH EXERCISING PRECAUTIONS AT ALL TIMES FOR THE PROTECTION OF PERSONS INCLUDING EMPLOYEES AND PROPERTY. IT IS ALSO THE CONTRACTOR'S RESPONSIBILITY TO INITIATE, MAINTAIN, AND SUPERVISE ALL SAFETY REQUIREMENTS, PRECAUTIONS, AND PROGRAMS IN CONNECTION WITH THE WORK.

THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR SECURING THE PROJECT SITE FROM THE GENERAL PUBLIC BOTH DURING AND AFTER HIS WORKING HOURS. THE CONTRACTOR SHALL PROVIDE, ERECT AND MAINTAIN ALL LIGHTS, SIGNS, FENCES OR ANY OTHER SAFETY DEVICE TO PREVENT UNAUTHORIZED PERSONNEL FROM HAZARDOUS OR DANGEROUS CONDITIONS ON THE PROJECT SITE. THE COST OF SUCH WORK SHALL BE INCLUDED IN THE VARIOUS ITEMS BID FOR FURNISHING AND INSTALLING MATERIALS ON THE PROJECT.

PRIOR TO THE COMMENCEMENT OF WORK

A PRECONSTRUCTION CONFERENCE SHALL BE HELD WITH THE CONTRACTOR, COSHOCTON COUNTY, THE CITY OF COSHOCTON, ODOT, AND THE PROJECT ENGINEER BEFORE ANY CONSTRUCTION BEGINS. AT THE PRECONSTRUCTION CONFERENCE, THE CONTRACTOR SHALL SUBMIT A PROPOSED SCHEDULE REFLECTING ALL WORK THAT IS TO BE CONDUCTED.

THE CONTRACTOR SHALL NOTIFY ODOT AND COSHOCTON COUNTY A MINIMUM OF FIVE (5) DAYS BEFORE BEGINNING WORK, HOLIDAYS, AND WEEKENDS EXCLUDED. WHEN THE CONTRACTOR SUSPENDS OPERATIONS FOR TWO (2) OR MORE WORKING DAYS, HE SHALL NOTIFY ODOT AND COSHOCTON COUNTY A MINIMUM OF TWENTY-FOUR (24) HOURS BEFORE RESUMING WORK.

AT LEAST SEVENTY-TWO (72) HOURS PRIOR TO COMMENCING CONSTRUCTION OPERATIONS IN AN AREA WHICH MAY INVOLVE UNDERGROUND UTILITY FACILITIES, THE CONTRACTOR SHALL NOTIFY THE REGISTERED UTILITY PROTECTION SERVICE AND THE OWNERS OF EACH UTILITY FACILITY SHOWN IN THE PLANS.

WORKING HOURS

WORKING HOURS ARE LIMITED TO 7:00AM TO 7:00PM MONDAY THROUGH FRIDAY AND 7:00AM TO 5:00PM ON SATURDAY. NO WORK SHALL BE PERFORMED ON SUNDAY OR ODOT HOLIDAYS WITHOUT PRIOR WRITTEN APPROVAL. IF THE CONTRACTOR NEEDS TO WORK ON A SUNDAY OR A HOLIDAY, HE SHALL SUBMIT HIS REQUEST STATING THE REASONS FOR WORKING THOSE DAYS TO ODOT AND COSHOCTON COUNTY A MINIMUM OF TWO (2) BUSINESS DAYS PRIOR TO THE HOLIDAY OR SUNDAY.

CONTINGENCY QUANTITIES

THE CONTRACTOR SHALL NOT ORDER MATERIALS NOR PERFORM WORK LISTED IN THE GENERAL SUMMARY FOR ITEMS DESIGNATED BY PLAN NOTE TO BE USED AS DIRECTED BY THE ENGINEER. PAYMENT FOR THESE ITEMS WILL BE MADE ONLY WHEN THE WORK UNDER THE PARTICULAR ITEM HAS BEEN PERFORMED.

EMERGENCY PHONE NUMBER

THE CONTRACTOR SHALL PROVIDE ODOT AND COSHOCTON COUNTY WITH A 24 HOUR TELEPHONE NUMBER TO READILY CONTACT A RESPONSIBLE PARTY IN THE CASE OF AN EMERGENCY. COSTS AND/OR DAMAGES INCURRED RELATED TO WORK PERFORMED BY THE CONTRACTOR IN SUCH EMERGENCIES ARE THE CONTRACTOR'S RESPONSIBILITY AND NOT THAT OF ODOT OR COSHOCTON COUNTY.

FINAL CLEAN-UP

THE CONTRACTOR SHALL CLEAN UP ALL DEBRIS AND MATERIALS RESULTING FROM HIS OPERATIONS AND RESTORE ALL SURFACES, STRUCTURES, DITCHES, AND PROPERTY TO ITS ORIGINAL CONDITION TO THE SATISFACTION OF THE ENGINEER.

INCLUSIVE BID

THE CONTRACTOR'S BID SHALL INCLUDE ALL LABOR, MATERIALS, AND EQUIPMENT REQUIRED TO COMPLETE THE PROJECT. COMPENSATION FOR ANY WORK WHICH DOES NOT HAVE A SPECIFIC PAY ITEM WILL BE INCLUDED IN THE PRICE BID FOR THE INDIVIDUAL ITEMS.

PAVEMENT CLEANING

THE CONTRACTOR IS HEREBY NOTIFIED THAT HE/SHE SHALL BE RESPONSIBLE FOR CLEANING OF STREETS OF ANY MUD, DIRT, SAND, GRAVEL, STONES, OR ANY KIND OF MATERIAL THAT HAVE DEPOSITED AS A RESULT OF HIS/ HER OR SUB-CONTRACTOR'S OPERATIONS. PAVEMENTS SHALL BE CLEANED AT THE END OF EACH WORK DAY OR MORE OFTEN AS DETERMINED BY ODOT OR COSHOCTON COUNTY.

WEATHER CONDITIONS

ALL CONSTRUCTION AND MATERIAL USAGE SHALL BE IN ACCORDANCE WITH CLIMATIC CONDITIONS ADDRESSED IN CURRENT ISSUE OF THE OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIALS SPECIFICATIONS.

JOINTS AT INTERSECTIONS AND PROJECT LIMITS

ALL JOINTS AT INTERSECTIONS AND BEGIN/END LOCATIONS SHALL BE SEALED BUTT JOINTS AS PER ODOT SCD BP-3.1.

FEATHERING

FEATHERING OF THE ASPHALT CONCRETE SHALL BE DONE IN ACCORDANCE WITH ODOT SCD BP-3.1.

PAVEMENT MARKING

STOP LINES, CROSSWALK LINES, CHANNELIZING LINES, ETC., SHOWN WITHIN THESE PLANS ARE TAKEN FROM EXISTING MARKINGS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DOCUMENT EXISTING MARKING LOCATIONS (I.E. BY USE OF VIDEO, PICTURES) AND PLACE NEW PAVEMENT MARKINGS AS NEAR AS POSSIBLE TO THE EXISTING LOCATIONS UNLESS OTHERWISE DIRECTED BY THE ENGINEER PRIOR TO COMMENCEMENT OF ANY OPERATION WHICH WILL REMOVE/OBLITERATE MARKINGS WITH EXCEPTION OF THE RESTRIPING OF CR 16 FROM STATION 100+00 TO STATION 174+97.60 AS SHOWN ON SHEET Z OF THE PLANS.

ENGINEER DEFINED

DULY AUTHORIZED AGENT OF THE COSHOCTON COUNTY ENGINEER ACTING WITHIN THE SCOPE OF HIS/HER AUTHORITY FOR THE PURPOSES OF ENGINEERING AND ADMINISTRATION OF THE CONTRACT.

CONTRACTOR DEFINED

THE INDIVIDUAL FIRM OR CORPORATION CONTRACTING WITH THE COSHOCTON COUNTY ENGINEER FOR THE PERFORMANCE OF PRESCRIBED WORK ACTING DIRECTLY OR THROUGH A DULY AUTHORIZED REPRESENTATIVE AND QUALIFIED UNDER THE PROVISIONS OF ORC 5525.05 TO ORC 5525.09. AND ANY ADMENDMENTS THERETO.

WORK LIMITS

THE WORK LIMITS ARE NOT SHOWN ON THESE PLANS. THE WORK LIMITS ARE HEREBY ESTABLISHED AS THE EXISTING RIGHT-OF-WAYS OF THE PROJECT ROADS. PROVIDE THE INSTALLATION AND OPERATION OF ALL WORK ZONE TRAFFIC CONTROL AND WORK ZONE TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS. THE CONTRACTOR SHALL REPAIR ALL DAMAGE TO PRIVATE PROPERTY RESULTING FROM HIS OPERATIONS TO THE ENGINEER'S SATISFACTION. THE CONTRACTOR SHALL BEAR THE FULL COST OF HIS WORK.

ALIGNMENT AND PROFILE

THE PROJECT WORK INVOLVES THE RESURFACING OF THE EXISTING ASPHALT CONCRETE SURFACED STREET PAVEMENT. UNLESS OTHERWISE DENOTED ON THE CONSTRUCTION DRAWINGS, THE PROPOSED PAVEMENT RESURFACING COURSES SHALL FOLLOW THE ALIGNMENT AND PROFILE OF THE EXISTING PAVEMENT. THE PROPOSED ASPHALT CONCRETE COURSES SHALL HAVE UNIFORM THICKNESS AS INDICATED IN THE WORK DESCRIPTION FOR THE PERTINENT STREET AND ON THE TYPICAL SECTIONS. MAINTAIN NORMAL CROWN FOR POSITIVE DRAINAGE.

MATERIAL TESTING

THE COUNTY ENGINEER RESERVES THE RIGHT TO ORDER TESTING OF ALL MATERIAL USED.

ITEM 407 - TACK COAT

THE RATE OF APPLICATION OF THE 407 TACK COAT SHALL BE SUBJECT TO ADJUSTMENT AS DIRECTED BY THE ENGINEER. FOR ESTIMATING PURPOSES ONLY, THE PLAN QUANTITIES INDICATE AN AVERAGE APPLICATION RATE OF:

ITEM 407 TACK COAT FOR INTERMEDIATE COURSE 0.04 GAL/SY
ITEM 407 TACK COAT 0.075 GAL/SY

ITEM 408 - PRIME COAT, AS PER PLAN

THE CONTRACTOR SHALL APPLY ONE COAT OF MC-70 (AS PER SECTION 702) AT A RATE OF 0.40 GALLON PER SQUARE YARD TO THE COMPLETED AGGREGATE SHOULDER (ITEM 617) AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL PROVIDE A SHIELD TO PREVENT THE SPRAYING OR DRIFTING OF LIQUID BITUMINOUS MATERIAL ONTO THE EDGE OF PAVEMENT OR EDGE LINE. THE ATTENTION OF THE CONTRACTOR IS DIRECTED TO 107.10 OF THE SPECIFICATIONS. ITEM 408 PRIME COAT, AS PER PLAN, SHALL INCLUDE ALL LABOR, MATERIAL AND EQUIPMENT TO PERFORM THE ABOVE MENTIONED WORK.

RESIDENCE AND COMMERCIAL DRIVES

THERE ARE 5 TYPES OF DRIVES: CONCRETE, ASPHALT, GRAVEL, GRAVEL WITH ASPHALT APRON, AND FIELD/OIL WELL DRIVES. FIELD DRIVES AND OIL WELL DRIVES SHALL NOT BE PAVED. GRAVEL DRIVES SHALL BE PAVED BACK 4 FEET INTO THE DRIVEWAY UNLESS OTHERWISE DIRECTED BY THE ENGINEER. CONCRETE AND ASPHALT DRIVES SHALL HAVE BUTT JOINTS OR AS SHORT AN ASPHALT TAPER AS POSSIBLE (PREFERRED 4 FEET) AS DIRECTED BY THE ENGINEER SO AS TO PROVIDE A SMOOTH TRANSITION. GRAVEL DRIVES WITH ASPHALT APRONS SHALL ALSO HAVE BUTT JOINTS OR AS SHORT AN ASPHALT TAPER AS POSSIBLE (PREFERRED 4 FEET) BUT ONLY IF THE EXISTING ASPHALT APRON IS IN AN ACCEPTABLE CONDITION TO BE PAVED OVER AS DIRECTED BY THE ENGINEER. IF THE ASPHALT APRON CANNOT BE PAVED OVER (FOR EXAMPLE, BROKEN INTO SMALL PIECES) AS DETERMINED BY THE ENGINEER, IT SHALL BE REMOVED BEFORE BEING PAVED BACK 4 FEET INTO THE DRIVEWAY. ALL GRADING, PRIME OR TACK COAT, MATERIALS, LABOR, EQUIPMENT TOOLS AND INCIDENTALS NECESSARY TO COMPLETE THE DRIVES SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 448 ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG 70-22M, AS PER PLAN.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE PLAN TO BE USED AS DIRECTED BY THE ENGINEER TO PAVE APPROACH AREAS TO EXISTING DRIVEWAYS. PAVING SHALL TYPICALLY EXTEND 4 FEET INTO THE DRIVEWAY (MEASURED FROM THE EDGE OF PAVEMENT OR PAVED SHOULDER IF PRESENT).

PLAN SPLIT LOCATION	1A	1B	TOTAL
ITEM 407 TACK COAT (0.075 GAL/SY)	56	87	143 GAL
ITEM 407 TACK COAT FOR INTERMEDIATE COURSE, TYPE 2 (0.04 GAL/SY)	30	47	77 GAL
ITEM 441 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448), PG64-22	36	56	92 CY
ITEM 441 ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG70-22M	26	40	66 CY

ITEM 441 ASPHALT CONCRETE

THE HOT MIX ASPHALT MIXTURE SHALL BE COMPOSED OF AGGREGATE, ASPHALT BINDER, AND MODIFIERS (WHERE SPECIFIED) MEETING ODOT REQUIREMENTS. FORTY-EIGHT (48) HOURS PRIOR TO PRODUCING HOT MIX ASPHALT FOR THIS CONTRACT, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR APPROVAL, A JOB FORMULA OR BITUMINOUS CONCRETE DATA SHEET PRIOR TO PRODUCTION OF ANY ASPHALT.

THE JMF SHALL INCLUDE THE MIX TYPE PROPOSED FOR USE. AGGREGATE TYPE AND GRADATION, PERCENTAGE OF ASPHALT BINDER BY WEIGHT OF MIXTURE, GRADE OF ASPHALT BINDER, DESCRIPTION AND SOURCE OF MODIFIER (IF APPLICABLE), AND UNIT WEIGHT OF THE MIXTURE, THE JMF OR DATA SHEET SHALL HAVE PREVIOUSLY BEEN APPROVED FOR USE ON ODOT WORK.

THE FOLLOWING CMS REQUIREMENTS FOR PLACING ITEM 448 ASPHALT CONCRETE SHALL BE OMITTED FOR THIS PROJECT:

- 401.20 ASPHALT BINDER PRICE ADJUSTMENT
- FUEL PRICE ADJUSTMENT

INTERMEDIATE COURSE SHALL BE PLACED WITHIN ONE WEEK OF THE WORK FOR ITEM 254 PAVEMENT PLANING. THE SURFACE COURSE SHALL BE PLACED IMMEDIATELY FOLLOWING COMPLETION OF THE INTERMEDIATE COURSE.

THE FOLLOWING CONTINGENCY QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR THE INTERMEDIATE COURSE TO CORRECT PROFILE AND CROSS SLOPE.

PLAN SPLIT LOCATION	1A	1B	TOTAL
ITEM 441 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448), PG64-22	61	97	158 CY

ITEM 614 MAINTAINING TRAFFIC

LANE CLOSURES SHALL BE IN ACCORDANCE WITH THE PLANS AND CONTRACT DOCUMENTS. LIQUIDATED DAMAGES SHALL BE ASSESSED IN ACCORDANCE WITH SECTION 108.07 OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS AND CONTRACT DOCUMENTS.

A MINIMUM OF ONE LANE OF TRAFFIC SHALL BE MAINTAINED AT ALL TIMES BY USE OF THE EXISTING PAVEMENT PER STANDARD CONSTRUCTION DRAWING MT-97.12.

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.

TRAFFIC SHALL BE MAINTAINED DURING LANE CLOSURES WITH FLAGGERS AS PER STANDARD DRAWINGS MT-97.10 AND MT-97.12 AT ALL TIMES.

ACCESS TO LOCAL PROPERTY OWNERS, BUSINESSES, AND PARKS SHALL BE MAINTAINED AT ALL TIMES.

PLACING OF THE ASPHALT CONCRETE SURFACE COURSE SHALL OCCUR AS CLOSE BEHIND THE INTERMEDIATE COURSE OPERATION AS POSSIBLE.

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH ITEM 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 614, MAINTAINING TRAFFIC, UNLESS SEPARATELY ITEMIZED IN THE PLAN.

ITEM 614 MAINTAINING TRAFFIC
(WORK ZONE CENTER LINE)

ONLY ITEM 614 WORK ZONE CENTER LINE, CLASS II HAS BEEN ITEMIZED IN THE PLAN. ANY COSTS FOR ADDITIONAL TEMPORARY CENTER LINE REQUIRED TO ADHERE TO SPEC 614.11.H.1 (BEYOND 3 CALENDAR DAYS WITH CLASS II) SHALL BE INCLUDED IN THE LUMP SUM BID FOR ITEM 614 MAINTAINING TRAFFIC.

ITEM 253 PAVEMENT REPAIR, AS PER PLAN
AN ESTIMATED QUANTITY FOR PAVEMENT REPAIR HAS BEEN INCLUDED IN THE PLAN TO BE USED AS DIRECTED BY THE ENGINEER. REPAIRS SHALL TAKE PLACE PRIOR TO THE PAVEMENT PLANING AND PAVING OPERATIONS. THE INTENT OF THIS OPERATION IS TO REPAIR THOSE AREAS OF PAVEMENT WHICH HAVE COMPLETELY FAILED (PUMPING OF SUBBASE MATERIALS) AND NOT TO CORRECT SURFACE IRREGULARITIES. DEPTH OF EXCAVATION SHALL BE APPROXIMATELY 6". AFTER EXCAVATION HAS BEEN COMPLETED, THE FACE OF THE REPAIR SHALL BE COATED WITH 407 TACK COAT. REPLACEMENT MATERIAL WILL BE 6" OF ITEM 301 ASPHALT CONCRETE BASE, PG 64-22 (PLACED AND COMPACTED AS DIRECTED). ALL EXCAVATION, MATERIALS, LABOR, EQUIPMENT, TOOLS, TRAFFIC CONTROL, AND INCIDENTALS NEEDED TO COMPLETE THE WORK DESCRIBED ABOVE SHALL BE PAID FOR UNDER ITEM 253 PAVEMENT REPAIR, AS PER PLAN.

THE FOLLOWING CONTINGENCY QUANTITY HAS BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE WORK NOTED ABOVE:

PLAN SPLIT LOCATION	1A	1B	TOTAL
ITEM 253, PAVEMENT REPAIR, AS PER PLAN	52	81	133 CY

ITEM 254 PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN

IN ADDITION TO THE WORK REQUIRED UNDER ITEM 254 PAVEMENT PLANING, THE DEPTH OF PAVEMENT PLANING SHALL BE AS DESCRIBED BELOW OR AS DIRECTED BY THE ENGINEER. THE ROADWAY SHALL BE PLANED SUCH THAT POSITIVE DRAINAGE IS CREATED FROM THE CENTER LINE TO THE EDGE OF PAVEMENT IN TANGENT SECTIONS AND SHALL FOLLOW EXISTING SUPERELEVATIONS WHERE APPLICABLE. IN ADDITION THE MILLING WIDTH SHALL BE ADJUSTED AS DIRECTED BY THE ENGINEER AT CERTAIN DRIVEWAYS TO REMOVE ANY UNSOUND ASPHALT THAT WOULD BE LEFT BY A SHORT APRON AND TO ALLOW ACCEPTABLE DRIVEWAY APPROACH GRADES. ANY ADDITIONAL PASSES WITH THE PLANING MACHINE OR VARIATIONS IN DEPTH OF THE PLANING TO MEET ALL OF THESE REQUIREMENTS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 254 PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN. ALL SPECIFICATIONS OF ITEM 254 SHALL APPLY.

THE FOLLOWING CONTINGENCY QUANTITY HAS BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE WORK NOTED ABOVE:

PLAN SPLIT LOCATION	1A	1B	TOTAL
ITEM 254, PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN	278	722	1000 SY

ITEM 617 COMPACTED AGGREGATE, TYPE A, AS PER PLAN

ALL AGGREGATE SHALL BE 100% CRUSHED LIMESTONE, ALL QUALITY REQUIREMENTS EXCEPT SHALE SHALL BE WAIVED. OTHER GRADATION REQUIREMENTS SHALL BE AS SPECIFIED EXCEPT THE PLASTICITY INDEX SHALL BE WAIVED. IF SO DIRECTED, THE CONTRACTOR MAY USE RECYCLED ASPHALT CONCRETE PAVEMENT (RAP MEETING REQUIREMENTS OF 617.02) IN LIEU OF CRUSHED LIMESTONE.

THE BASIS FOR CALCULATING THE QUANTITIES OF CUBIC YARDS ITEM 617 COMPACTED AGGREGATE SHOULDER IS A 2 FOOT WIDTH AND 3 INCH DEPTH ON BOTH SIDES OF THE PAVED ROADWAY SURFACE. THE ACTUAL QUANTITY MAY VARY MORE OR LESS, SUCH THAT PAYMENT SHALL BE FOR THE ACTUAL QUANTITY IN PLACE.

ITEM 614 WORK ZONE MARKING SIGNS
ITEM 614 WORK ZONE MARKING SIGNS IN ACCORDANCE WITH CMS SECTION 614.04, THE QUANTITY OF WORK ZONE MARKING SIGN HAS BEEN CARRIED TO THE GENERAL SUMMARY TO BE USED AS DIRECTED BY THE ENGINEER.

PLAN SPLIT LOCATION	1A	1B	TOTAL
W8-H12a (NO EDGE LINES) -	2	2	4 EACH
G20-2 (END ROAD WORK) -	1	1	2 EACH
R4-1 (DO NOT PASS) -	2	2	4 EACH

IN ADDITION, THE CONTRACTOR SHALL ERECT A "GROOVED PAVEMENT" SIGN 250 FEET IN ADVANCE OF ANY SECTION OF ROADWAY WHERE TRAFFIC MUST TRAVEL ON A PLANED SURFACE. ENSURE THESE SIGNS ARE IN PLACE BEFORE OPENING THE THE ROADWAY TO TRAFFIC. ERECT THESE SIGNS AT INTERSECTIONS OR THROUGH ROUTES TO WARN TRAFFIC OF THIS SURFACE CONDITION. SIGNS FROM MT-97.12 AS WELL AS THE "GROOVED PAVEMENT", "ROAD CONSTRUCTION AHEAD" AND "END CONSTRUCTION SIGNS SHALL BE INCLUDED FOR PAYMENT WITH THE LUMP SUM BID FOR ITEM 614 MAINTAINING TRAFFIC AS PER CMS SECTION 614.055.

NOTE THE "ROAD CONSTRUCTION AHEAD" AND "END CONSTRUCTION" SIGNS SHALL BE ERECTED AT EACH INTERSECTING ROADWAY AS WELL AS AT THE BEGINNING AND END OF THE CONSTRUCTION WORK ZONE.

ITEM 614 WORK ZONE PAVEMENT MARKINGS
THE FOLLOWING APPLICATIONS FOR WORK ZONE PAVEMENT MARKINGS HAVE BEEN INCLUDED IN THE GENERAL SUMMARY.

THE CONTRACTOR SHALL APPLY ONE APPLICATION FOLLOWING PLACEMENT OF THE INTERMEDIATE COURSE THROUGHOUT THE WHOLE PROJECT.

THE CONTRACTOR SHALL APPLY ONE APPLICATION FOLLOWING PLACEMENT OF THE SURFACE COURSE THROUGHOUT THE WHOLE PROJECT.

WORK ZONE PAVEMENT MARKINGS SHALL BE IN PLACE AT THE END OF EACH WORK DAY.

ITEM 614 ASPHALT CONCRETE FOR MAINTAINING TRAFFIC

A QUANTITY OF ASPHALT CONCRETE FOR MAINTAINING TRAFFIC HAS BEEN CARRIED TO THE GENERAL SUMMARY TO BE USED AS DIRECTED BY THE ENGINEER.

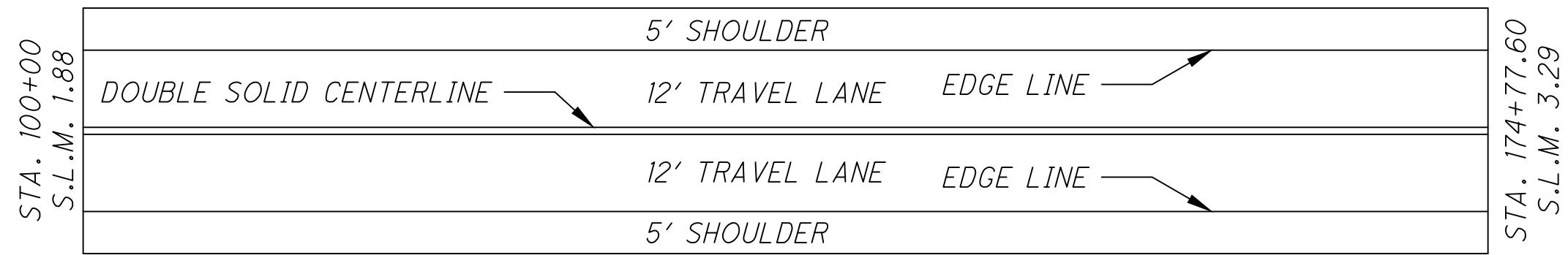
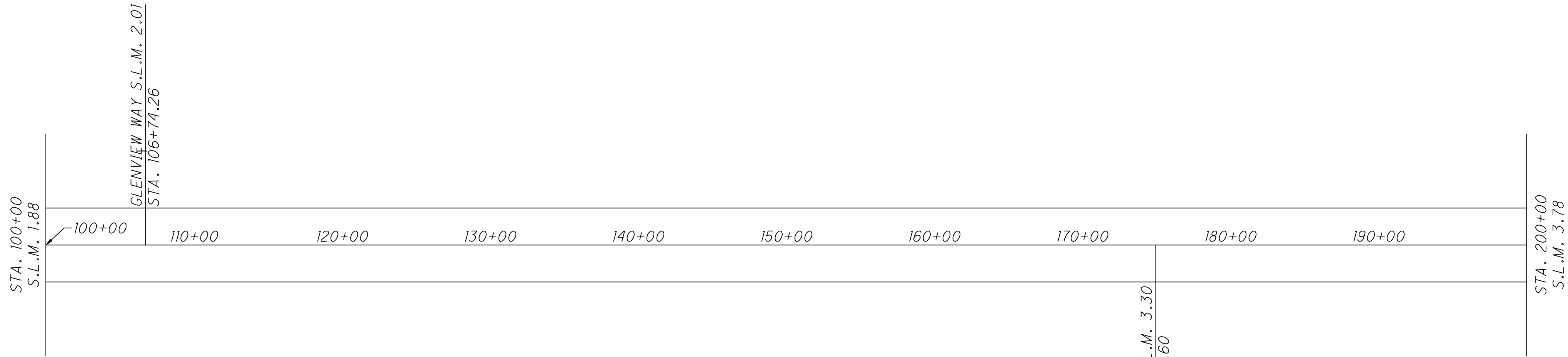
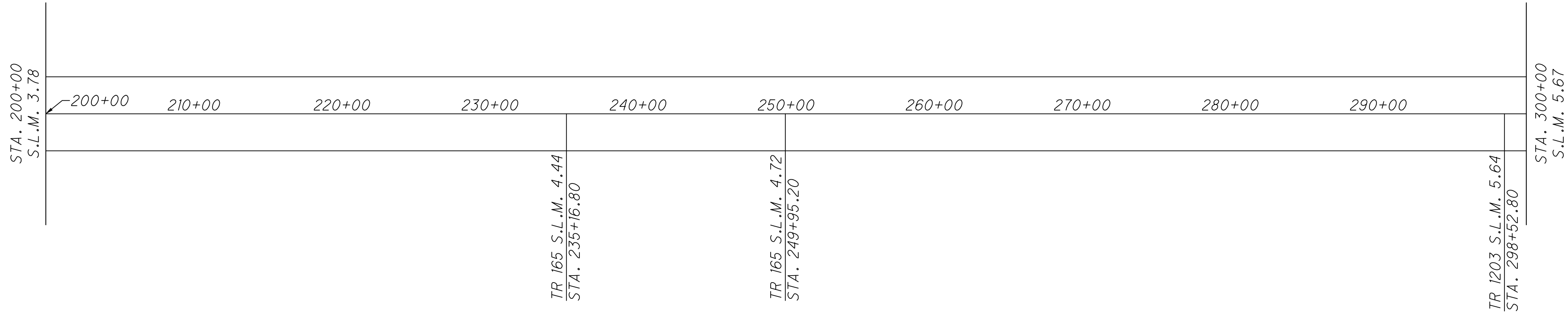
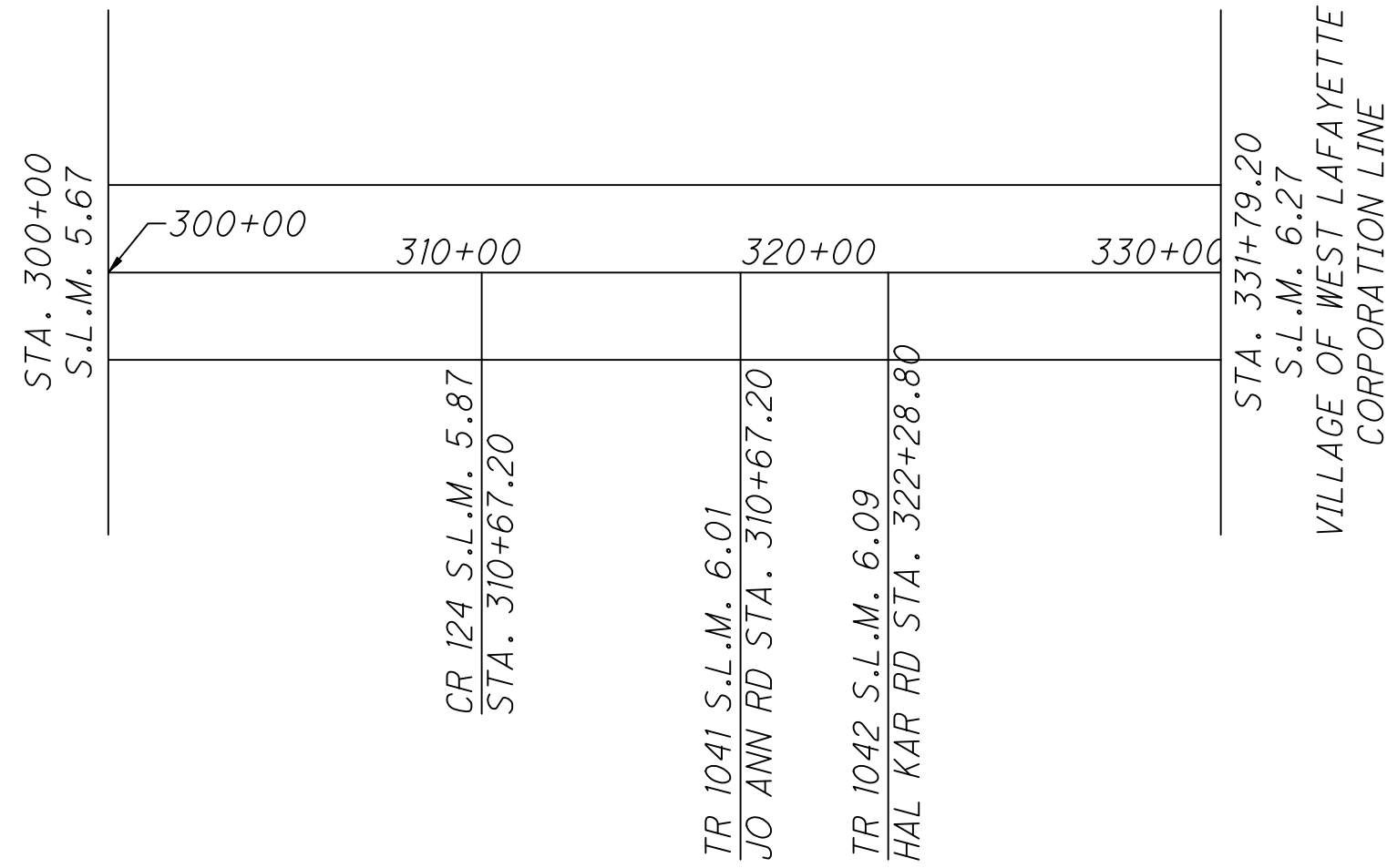
PLAN SPLIT LOCATION	1A	1B	TOTAL
ITEM 614, ASPHALT CONCRETE FOR MAINTAINING TRAFFIC	3	5	8 CY

MAILBOX TURN OUTS
THE FOLLOWING QUANTITIES HAVE BEEN PROVIDED IN THE PLANS TO COVER MAILBOX TURN OUTS AND INCLUDED IN THE GENERAL SUMMARY ON THE PLAN SHEETS. TURN OUTS SHALL BE PAVED AS SHOWN IN THE DETAIL IN STANDARD DRAWINGS BP-4.1, 7-19-13

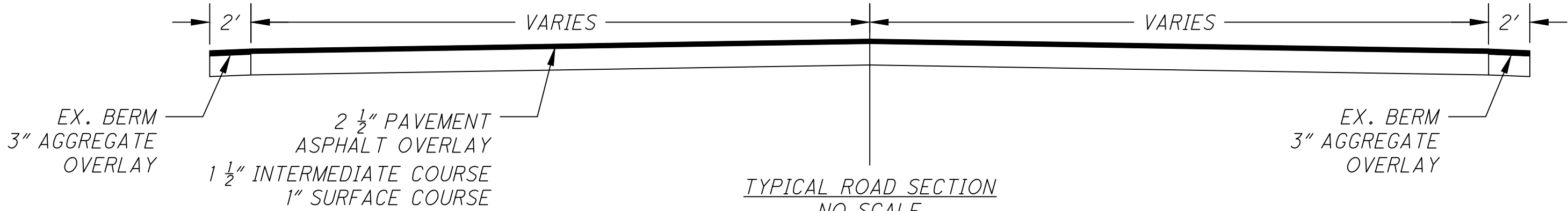
ANY EXTRA GRADING OF THE SHOULDERS, PRIME COAT, MATERIALS, LABOR, EQUIPMENT, TOOLS AND INCIDENTALS NECESSARY TO COMPLETE MAILBOX TURN OUTS SHALL BE INCLUDED IN THE UNIT BID PRICE FOR THE ITEMS SHOWN BELOW:

PLAN SPLIT LOCATION	1A	1B	TOTAL
ITEM 407 TACK COAT (0.075 GAL/SY)	25	65	90 GAL
ITEM 407 TACK COAT FOR INTERMEDIATE COURSE, TYPE 2 (0.04 GAL/SY)	11	30	41 GAL
ITEM 441 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448), PG64-22	14	30	44 CY
ITEM 441 ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG70-22M	10	26	36 GAL

SHEET NUM.												PART.		ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET NO.
2		3		5		6		8				01/S<2/05 /CCEO	02/STR/05 /CCEO		EXT	TOTAL			
																	PAVEMENT		
		1,000										278	722	254	01001	1,000	SY	PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN	3
		133										52	81	253	02001	133	CY	PAVEMENT REPAIR, AS PER PLAN	3
220		131		8,497		192.1						3,431.3	5,608.8	407	10000	9,040.1	GAL	TACK COAT	
				4,120.7								1,332.9	2,787.8	408	10001	4,120.7	GAL	PRIME COAT, AS PER PLAN	2
66		36		2,565.5		57.7						1,035.1	1,690.1	441	50100	2,725.2	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG70-22M	
250		44		3,078.6		69.6						1,310	2,132.2	441	50300	3,442.2	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448), PG64-22	
				858.5								277.7	580.8	617	10101	858.5	CY	COMPACTED AGGREGATE, AS PER PLAN	3
				8.78								2.84	5.94	618	41000	8.78	MILE	RUMBLE STRIPES, EDGE LINE (ASPHALT CONCRETE)	
				4.39								1.42	2.97	618	43000	4.39	MILE	RUMBLE STRIPES, CENTER LINE (ASPHALT CONCRETE)	
																		TRAFFIC CONTROL	
								310				95	215	621	00100	310	EACH	RPM	
								318				99	219	621	54000	318	EACH	RAISED PAVEMENT MARKER REMOVED	
								8.78				2.84	5.94	643	00100	8.78	MILE	EDGE LINE, 4"	
								4.39				1.42	2.97	643	00300	4.39	MILE	CENTER LINE	
								410					410	643	00400	410	FT	CHANNELIZING LINE, 8"	
								136				34	102	643	00500	136	FT	STOP LINE	
								80					80	643	00700	80	FT	TRANSVERSE/DIAGONAL LINE	
								5					5	643	01300	5	EACH	LANE ARROW	
								12					12	643	20802	12	FT	YIELD LINE	
																		MAINTENANCE OF TRAFFIC	
		8						10				5	5	614	12460	10	EACH	WORK ZONE MARKING SIGN	
												3	5	614	13001	8	CY	ASPHALT CONCRETE FOR MAINTAINING TRAFFIC, AS PER PLAN	3
								8.78				2.84	5.94	614	21500	8.78	MILE	WORK ZONE CENTER LINE, CLASS II, 642 PAINT	
								820					820	614	23660	820	FT	WORK ZONE CHANNELIZING LINE, CLASS II, 8", 642 PAINT	
								160					160	614	25620	160	FT	WORK ZONE TRANSVERSE/DIAGONAL LINE, CLASS III, 642 PAINT	
								296				68	228	614	26610	296	FT	WORK ZONE STOP LINE, CLASS III, 642 PAINT	
																		INCIDENTALS	
														103	05000	LS		PREMIUM FOR CONTRACT PERFORMANCE BOND AND FOR PAYMENT BOND	
														614	11000	LS		MAINTAINING TRAFFIC	
														623	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING	
														624	10000	LS		MOBILIZATION	



TYPICAL PAVEMENT STRIPING PLAN
LOG POINT 1.88 TO LOG POINT 3.29



TYPICAL ROAD SECTION
NO SCALE

LOG POINT 1.88 TO LOG POINT 3.65 - 34' PAVEMENT
LOG POINT 3.65 TO LOG POINT 3.72 PAVEMENT TAPERS FROM 34' TO 25'
LOG POINT 3.72 TO LOG POINT 6.27 - 25' PAVEMENT

[illegible]