

LOCATION MAP

SEE SHEET 2 FOR ADDITIONAL LOCATIONS

LATITUDE: N 41° 4' 2" LONGITUDE: W 83° 30' 6"



PORTION TO BE IMPROVED	—————	—————
INTERSTATE HIGHWAY	—————	—————
FEDERAL ROUTES	—————	—————
STATE ROUTES	—————	—————
COUNTY & TOWNSHIP ROADS	—————	—————
OTHER ROADS	—————	—————

DESIGN DESIGNATION US 224

CURRENT ADT (2019)	7043
DESIGN YEAR ADT (2041)	8100
DESIGN HOURLY VOLUME (2041)	750
DIRECTIONAL DISTRIBUTION	0.53
TRUCKS (24 HOUR B&C)	0.05
DESIGN SPEED	55 mph
LEGAL SPEED	55 mph
DESIGN FUNCTIONAL CLASSIFICATION:	
MINOR ARTERIAL	



PLAN PREPARED BY:
District One
Ohio Department of Transportation
Lima, Ohio

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION
**HAN / ALL / HAR -
224 / 235 / 309 - VAR.**

**Marion and Biglick Townships
in Hancock County
Bath and Auglaize Townships in Allen County
Liberty, Marion, Cessna and Pleasant
Townships in Hardin County**

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PROJECT DESCRIPTION

REHABILITATION OF 8.61 MILES OF ROADWAY ON US 224 IN HANCOCK COUNTY. REHABILITATE BY RESURFACING AND PLACING PAVEMENT MARKINGS. ALSO ADD CENTERLINE RUMBLE STRIPES TO SR 309 IN ALLEN COUNTY AND TO SR 235 AND SR 309 IN HARDIN COUNTY. TOTAL CENTERLINE RUMBLE STRIPE PLACEMENT IS 21.92 MILES.

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA:	N/A *
ESTIMATED CONTRACTOR EARTH DISTURBED AREA:	N/A *
NOTICE OF INTENT EARTH DISTURBED AREA:	N/A *

* - (MAINTENANCE PROJECT)

2019 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING 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 HIGHWAY AND PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS INDICATED IN THE PROPOSAL.

ENGINEERS SEAL

SIGNED: *Eric J. Scheckelhoff*
DATE: 2-11-2021

STANDARD CONSTRUCTION DRAWINGS				SUPPLEMENTAL SPECIFICATIONS	
BP-3.1	1/17/20	TC-64.10	1/17/20	800	1/15/21
BP-5.1	1/18/19	TC-65.10	1/17/14	832	10/19/18
BP-7.1	7/17/20	TC-65.11	7/21/17	872	4/17/20
		TC-71.10	1/19/18	874	4/17/20
				875	1/18/19
MT-97.10	4/19/19	DM-4.3	1/15/16		
MT-97.12	1/20/17	DM-4.4	1/15/16		
MT-99.20	4/19/19				
MT-101.90	7/17/20				
MT-105.10	1/17/20				
MT-110.10	7/19/13				
TC-41.20	10/18/13				
TC-42.20	10/18/13				
TC-52.10	10/18/13				
TC-52.20	1/15/21				

APPROVED *Christopher A. Hughes*
DATE 02/11/2021 DISTRICT DEPUTY DIRECTOR

APPROVED _____
DATE _____ DIRECTOR, DEPARTMENT OF TRANSPORTATION

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FEDERAL PROJECT NO. E191(150)
CONSTRUCTION PROJECT NO. 107676
RAILROAD INVOLVEMENT None
HAN / ALL / HAR - 224 / 235 / 309 - VAR.
1/10

PAVEMENT PREPARATION:

IN ADDITION TO THE REQUIREMENTS OD SPEC. 641.05, THE ITEM SHALL CONSIST OF REMOVING AND DISPOSING OF EXCESSIVE AMOUNTS OF LOSE OR FOREIGN MATERIAL FROM THE SURFACE TO BE MARKED TO THE SATISFACTION OF THE ENGINEER. THIS SHALL INCLUDE THE AREA AROUND THE SURFACE TO BE MARKED, THE ENTIRE AREA SHALL BE CLEANED, NOT JUST THE LINES TO BE MARKED. ALL WORK SHALL BE INCIDENTAL TO 641.

FLOODLIGHTING:

FLOODLIGHTING OF THE WORK SITE FOR ANY OPERATIONS CONDUCTED DURING NIGHTTIME PERIODS SHALL BE ACCOMPLISHED SO THAT THE LIGHTS DO NOT CAUSE GLARE TO THE DRIVERS ON THE HIGHWAY. TO INSURE THE ADEQUACY OF THE FLOODLIGHT PLACEMENT, THE CONTRACTOR AND THE ENGINEER SHALL DRIVE THROUGH THE WORK ZONE EACH NIGHT WHEN 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, MAINTANING TRAFFIC.

DAMAGE CLAIMS:

IN ADDITION TO 107.10 AND 107.12 OF THE C&MS BOOK, THE FOLLOWING SHALL APPLY:

COPIES OF ALL DAMGE CLAIMS OR WRITTEN COMPLAINTS MADE AGAINST THE CONTRACTOR OR SUBCONTRACTOR RESULTING FROM FIELD PAINTING OF PAVEMENT MARKINGS SHALL BE PROVIDED TO THE ODOT DISTRICT CONSTRUCTION ENGINEER WITHIN SEVEN (7) DAYS OF RECEIPT. THE CONTRACTOR SHALL RESPOND TO EACH CLAIM OR COMPLAINT IN A TIMELY MANNER, BUT IN NO CASE SHALL RESPONSE TAKE MORE THEN FIFTEEN (15) DAYS. A COPY OF THE RESPONSE SHALL BE PROVIDED TO THE ODOT DISTRICT CONSTRUCTION ENGINEER AT THE TIME IT IS SENT TO THE CLAIMANT OR COMPLAINANT.

GRINDING MATERIAL:

THE GRINDING MATERIAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND REMOVED FROM THE PAVED SURFACE OF THE ROADWAY.

PAVEMENT MARKINGS:

IN ADDITION TO THE STANDARD CONSTRUCTION DRAWINGS IN THE CMS, THE FOLLOWING ADDITIONAL CONDITIONS SHALL APPLY.

THE RUMBLE STRIPE SHALL BE DUST-FREE AND DRY WHEN THE PAVEMENT MARKINGS ARE APPLIED. PAVEMENT MARKINGS SHALL NOT BE PLACED OVER ANY PROPOSED CRACK SEALANT UNTIL THE SEALANT HAS CURED.

RAISED PAVEMENT MARKERS:

THIS PROJECT CONTAINS EXISTING RAISED PAVEMNT MARKERS. THE CONTRACTOR IS CAUTIONED NOT TO PERMIT CRACK SEAL MATERIAL TO COVER THE REFLECTIVE ELEMENTS OF THE MARKERS. IF A REFLECTIVE ELEMENT IS COVERED IT SHALL BE REPLACED WITH A NEW REFLECTOR OF THE CORRECT TYPE AND COLOR WITHIN THREE WORKING DAYS. SUCH REPLACEMENT WILL BE ENTIRELY AT THE CONTRACTOR'S EXPENSE.

WORK ON STRUCTURES:

THIS PROJECT CONTAINS STRUCTURES WHICH MAY HAVE CONCRETE APPROACH SLABS AND DECKS OR CONCRETE OVERLAYS. THE CONTRACTOR SHALL OMIT CRACK SEALING WORK ON THE CONCRETE PORTIONS OF THEESE STRUCTURES WITH THE EXCEPTION OF SEALING THE JOINT AT THE PAVEMENT AND APPROACH SLAB AND THE JOINT AT THE APPROACH SLAB AND BACKWALL, AS DIRECTED BY THE ENGINEER.

PROGRESSION OF WORK:

FOLLOWING THE PLACEMENT OF THE CENTERLINE RUMBLE STRIPE AND PRIOR TO THE PLACEMENT OF PAVEMENT MARKINGS, THE LONGITUDINAL, PAVEMENT JOINT ALONG THE CENTERLINE OF THE ROADWAY SHALL BE SEALED. CRACK SEALING SHALL BE PERFORMED IN ACCORDANCE WITH THE PROVISIONS OF CMS 423. CARE SHALL BE EXERCISED NOT TO UNNECESSARILY OBLITERATE EXISTING PAVEMENT MARKINGS AND RAISED PAVEMENT MARKERS. IN THE EVENT THAT EXISTING MARKINGS ARE OBLITERATED, THE CONTRACTOR SHALL ERECT THE NECESSARY WORK ZONE MARKING SIGNS AND INSTALL TEMPORARY PAVEMENT MARKINGS IN THOSE AREASC WHERE THE OBLITERATION HAS OCCURED PER THE REQUIREMENTS OF THE CONSTRUCTION DRAWINGS.

OBLITERATION MEANS ANY PERMANENT PAVEMENT MARKING TOTALLY COVERED OR COVERED TO THE EXTENT THAT THE REMAINING MARKINGS DO NOT PROVIDE GUIDANCE AS DETERMINED BY THE ENGINEER.

THE COSTS ASSOCIATED WITH THE REQUIREMENTS ABOVE SHALL BE CONSIDERED INCIDENTAL AND SHALL BE INCLUDED IN THE UNIT BID PRICE OF ITEM 423 CRACK SEALING, TYPE I.

UPON COMPLETION OF CRACK SEALING OPERATIONS ON EACH SECTION, THE CONTRACTOR SHALL INSTALL PERMANENT PAVEMENT MARKINGS AS PAID FOR IN THIS PLAN.

AIRWAY/HIGHWAY CLEARANCE FOR AIRPORTS AND HELIPORTS:

THIS PROJECT HAS BEEN IDENTIFIED AS BEING WITHIN THE INFLUENCE AREA OF A PUBLIC USE AIRPORT OR HELIPORT. NO TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT AT MAXIMUM OPERATING HEIGHT SHALL EXCEED A HEIGHT OF 25 FT. IF ANY TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT WILL EXCEED THE HEIGHT, FURTHER COORDINATION WITH THE FEDERAL AVIATION ADMINISTRATION (FAA), AND ODOT OFFICE OF AVIATION, WILL BE NECESSARY PRIOR TO ERECTING SUCH TEMPORARY STRUCTURES OR OPERATING SUCH EQUIPMENT ON TE PROJECT. THE CONTRACTOR WILL BE REQUIRED TO SUBMIT FORM 7460-1 TO THE FAA. NOTIFY THE ODOT OFFICE OF AVIATION WHEN SUBMITTING FAA FORM 7460-1.

NO TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT SHALL EXCEED THE PERMISSABLE HEIGHT, UNTIL A COPY OF THE FAA APPROVAL AND THE ODOT OFFICE OF AVIATION PERMIT HAS BEEN FURNISHED TO THE PROJECT ENGINEER.

Express Processing Center
The Federal Aviation Administration
Southwest Regional Office
Air Trafficce Airspace Branch ASW-520
2601 Meacham Blvd.
Fort Worth, TX 76137-4298

Ohio Departmenty of Transportation
Office of Aviation
2829 West Dublin-Granville Road
Columbus, Ohio 43235
614-387-2346

CONTACT INFORMATION:

COUNTY	COUNTY MANAGER	PHONE NO.
HANCOCK	DEIDRA NOEL	419-999-6731
HARDIN	CHRIS O'FLAHERTY	419-999-6742
ALLEN	JASON HOSCHAK	419-999-6711

NOTE:

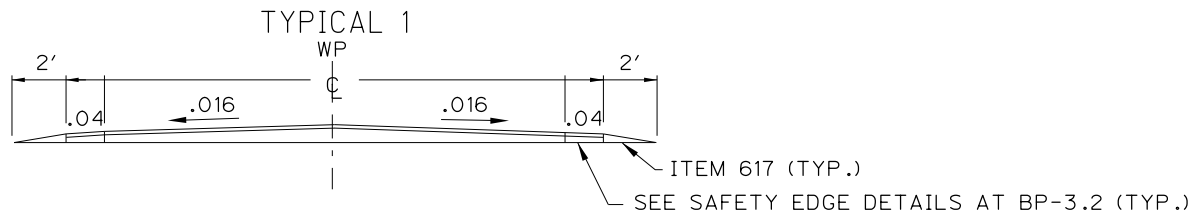
LOCATION POINTS (FROM & TO) ARE GIVEN IN STRAIGHT LINE MILEAGE (S.L.M.)

ITEM 424, FINE GRADED POLYMER ASPHALT CONCRETE, TYPE B, AS PER PLAN

IF THE FOLLOWING CONDITIONS APPLY AND WHERE TRAFFIC IS ALLOWED TO CROSS THE EDGE OF THE NEW PAVEMENT LANE, THE CONTRACTOR DOES NOT NEED TO COMPLETE THE LONGITUDINAL JOINT OF THE ADJACENT LANE WITHIN 24 HOURS AS STATED IN CMS 401.17.

1. ALONG AREAS WITHIN THE PROJECT'S WORK LIMITS WERE ITEM 874, LONGITUDINAL JOINT PREPARATION IS SPECIFIED AND THE CONTRACTOR CHOSES TO USE METHOD 1 FOR ITEM 874, LONGITUDINAL JOINT PREPARATION.
2. THE DROP-OFF BETWEEN THE ADJACENT TRAVELED LANE IS LESS THAN OR EQUAL TO ONE AND A HALF INCHES (1 1/2") AND MEETS CONDITION 1 OF STANDARD CONSTRUCTION DRAWING MT-101.90.
3. CONTRACTOR PROVIDES AND ERECTS THE APPROPRIATE SIGNS AS PER SCD MT-101.90. ALL COST ASSOCIATED FOR PROVIDING AND PLACING THE SIGNS SHALL BE INCIDENTAL TO THIS ITEM.

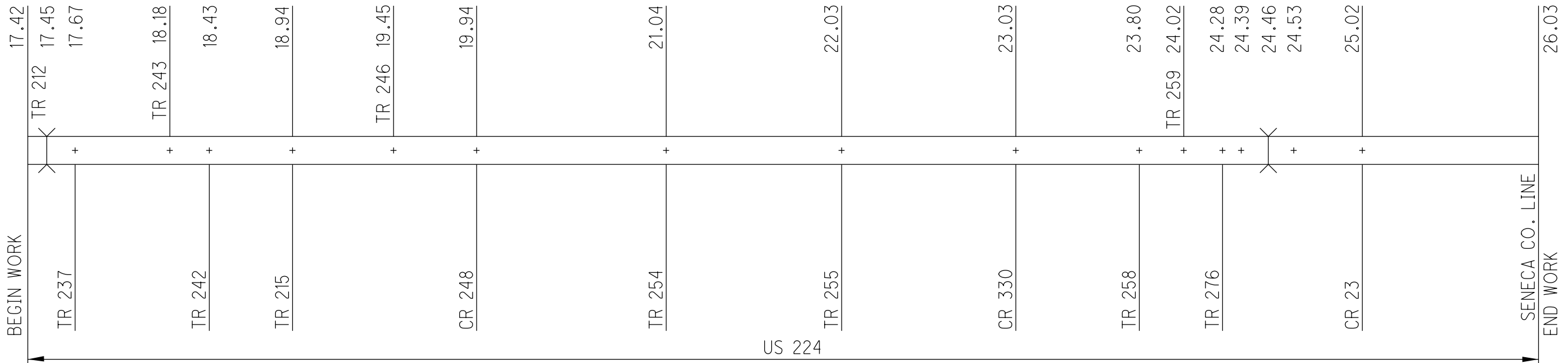
THE ABOVE SHALL BE APPLIED PER THE APPROVAL AND TO THE SATISFACTION OF THE PROJECT ENGINEER.



NOTE: ALL TOTALS CARRIED TO GENERAL SUMMARY

NOTE: MAILBOX AND DRIVE QUANTITIES ARE INCLUDED IN THE EXTRA AREAS

NOTE: DRAWINGS NOT TO SCALE



PAVEMENT DATA

ROUTE	FROM	TO	PLAN SPLITS	DISTANCE	PAVT WIDTH	TYPICAL SECTION	PAVT AREA	202	407	424	304	617	874	875	
								WEARING COURSE REMOVED	NON-TRACKING TACK COAT	FINE GRADED POLYMER ASPHALT CONCRETE TYPE B AS PER PLAN	AGGREGATE BASE	COMPACTED AGGREGATE	LOGITUDINAL JOINT PREPARATION	LONGITUDINAL JOINT ADHESIVE	
	SLM	SLM		MILES	FEET	FEET	SY	SY	GAL	CY	CY	CY	MILE	LB	
US 224	17.42	17.44	02/S<2/PV	0.02	106	30.5	1	358	358	30	10	3		18	
US 224	17.44	17.45	02/S<2/PV	0.01	bridge	no work									
US 224	17.45	17.60	02/S<2/PV	0.15	792	30.5	1	2684	170	228	75	20		132	
US 224	17.60	17.65	02/S<2/PV	0.05	264	36.5 *	1	1071		91	30	7		44	
US 224	17.65	17.76	02/S<2/PV	0.11	581	42	1	2710		230	75	14		97	
US 224	17.76	17.86	02/S<2/PV	0.10	528	36 *	1	2112		180	59	13		88	
US 224	17.86	18.33	02/S<2/PV	0.47	2482	30	1	8272		703	230	5		414	
US 224	18.33	19.94	02/S<2/PV	1.61	8501	30	1	28336		2409	787	10	210	1.61	
Extra Areas								304		26	8				
Intersections								1287	360	110	33				
Total Plan Split 02									888	4007	1307	15	328	1.61	793
US 224	19.94	24.47	01/STR/PV	4.53	23918	29.5	1	78399	164	6664	2178	25	591	4.53	
US 224	24.47	24.49	01/STR/PV	0.02	bridge	no work									
US 224	24.49	26.03	01/STR/PV	1.54	8131	29.5	1	26652	328	2265	740	15	100	1.54	
Extra Areas								864		73	24				
Intersections								1192	189	101	36				
Total Plan Split 01									681	9104	2978	40	691	6.07	
Totals									1569	13111	4285	55	1019	7.68	793

CALCULATED
GLI
CHECKED
EJS

ASPHALT CONCRETE

HAN / ALL / HAR -
224 / 235 / 309 - VAR.

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INTERSECTION	PLAN SPLITS	SLM	SIDE	PAVT AREA	202	407	424
					WEARING COURSE REMOVED	TACK COAT	FINE GRADED POLYMER ASPHALT CONCRETE TYPE B AS PER PLAN
					THICKNESS 1"		THICKNESS 1"
				SQ YD	SQ YD	GAL	CU YD
TR 212	02/S<2/PV	17.42	L	116.7	116.7	9.9	3.2
TR 237	02/S<2/PV	17.67	R	117.7	18.7	10.0	3.3
Eastern Woods	02/S<2/PV	17.76	L	138.1	65.1	11.7	3.8
Westwood Rd.	02/S<2/PV	17.87	R	92.1	16.1	7.8	2.6
Hickory Lane	02/S<2/PV	17.98	R	16.5	16.5	1.4	0.5
Hickory Lane	02/S<2/PV	18.06	R	34.3	12.1	2.9	1.0
TR 243	02/S<2/PV	18.18	L	135.7	19.3	11.5	3.8
TR 242	02/S<2/PV	18.34	R	89.6	14.1	7.6	2.5
TR 215	02/S<2/PV	18.94	R	107.7	16.1	9.2	3.0
TR 215	02/S<2/PV	18.94	L	92.8	14.7	7.9	2.6
TR 246	02/S<2/PV	19.45	L	139.5	18.7	11.9	3.9
CR 248	02/S<2/PV	19.94	R	102.4	16.7	8.7	2.8
CR 248	02/S<2/PV	19.94	L	103.6	14.7	8.8	2.9
Plan Split 02				1287	360	109	36
TR 254	01/STR/PV	21.04	R	119.2	18.1	10.1	3.3
TR 254	01/STR/PV	21.04	L	63.9	19.3	5.4	1.8
TR 255	01/STR/PV	22.03	R	100.5	14.7	8.5	2.8
TR 255	01/STR/PV	22.03	L	71.8	16.1	6.1	2.0
CR 330	01/STR/PV	23.03	R	128.5	18.7	10.9	3.6
CR 330	01/STR/PV	23.03	L	103.7	17.3	8.8	2.9
TR 258	01/STR/PV	23.77	R	128.2	15.3	10.9	3.6
TR 259	01/STR/PV	24.02	L	64.5	13.3	5.5	1.8
TR 276	01/STR/PV	24.28	R	56.9	13.3	4.8	1.6
CR 23	01/STR/PV	25.02	R	110.8	18.7	9.4	3.1
CR 23	01/STR/PV	25.02	L	244.3	24.1	20.8	6.8
Plan Split 01				1192	189	101	33
Sub-Totals				2479	548	211	69

Intersection subtotals for HAN-224 carried to sheet 6.

INTERSECTION SUB-SUMMARY

