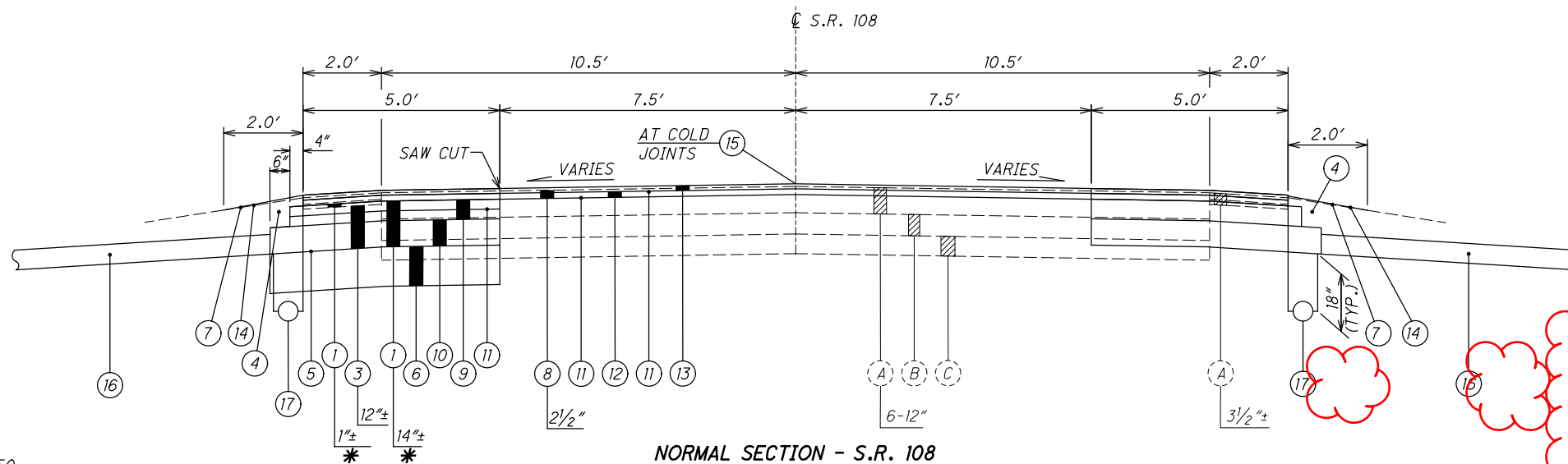


TYPICAL SECTION "A"



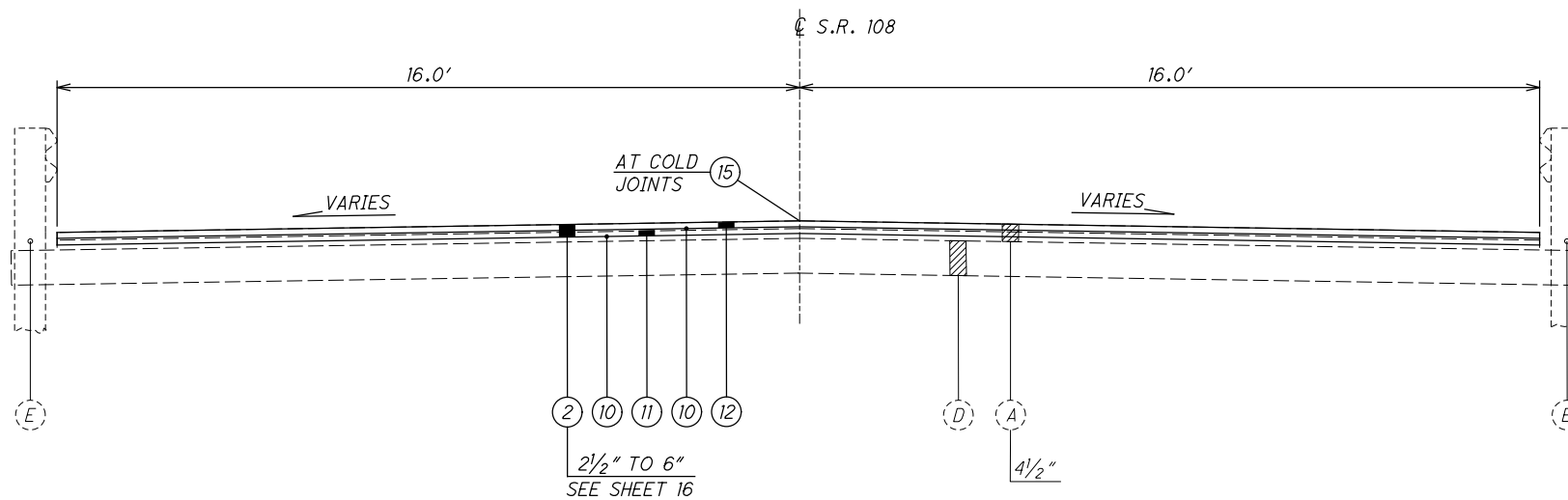
Δ STA. 0+00 TO STA. 8+00
 STA. 133+00 TO STA. 218+50
 STA. 220+00 TO STA. 278+61

ΔΔ STA. 8+00 TO STA. 133+00
 STA. 218+50 TO STA. 220+00

TYPICAL SECTION APPLIES FROM: STA. 0+00 TO STA. 215+85 = 21,585 FT.
 STA. 219+95 TO STA. 278+61 = 5866 FT.
 27,451 FT.

NORMAL SECTION - S.R. 108

TYPICAL SECTION "B"



BRIDGE TYPICAL SECTION - BRIDGE NO. HEN-108-0412
 TYPICAL SECTION APPLIES FROM: STA. 215+85 TO STA. 219+95 = 410 FT.

REMOVED STATION REFERENCES

CORE LIST			
MILE MARKER	DIRECTION	ASPHALT	CORE #
0.06	NB MAINLINE	9"	#1
0.06	NB SHOULDER	10"	#2
0.61	NB SHOULDER	4"	#3
0.61	NB MAINLINE	8"	#4
1.38	NB MAINLINE	8"	#5
1.85	NB MAINLINE	8 1/2"	#6
2.03	SB MAINLINE	14"	#11
3.64	SB MAINLINE	9 1/2"	#9
3.64	SB MAINLINE	6"	#10
3.65	NB MAINLINE	9"	#7
4.28	NB MAINLINE	12"	#8

PROPOSED LEGEND

- * ① ITEM 202 - PAVEMENT REMOVED, ASPHALT (THICKNESS AS SHOWN)
- ② ITEM 202 - WEARING COURSE REMOVED, AS PER PLAN
- ③ ITEM 203 - EXCAVATION OF SUBGRADE
- ④ ITEM 203 - EMBANKMENT
- ⑤ ITEM 204 - SUBGRADE COMPACTION
- ⑥ ITEM 204 - 12" GRANULAR MATERIAL, TYPE C
- ⑦ ITEM 209 - LINEAR GRADING
- ⑧ ITEM 254 - 2 1/2" PAVEMENT PLANING, ASPHALT CONCRETE
- ⑨ ITEM 301 - 6" ASPHALT CONCRETE BASE, PG64-22 (2 LIFTS 3" EACH)

- ⑩ ITEM 304 - 8" AGGREGATE BASE
- ⑪ ITEM 407 - NON-TRACKING TACK COAT
- ⑫ ITEM 441 - 1 3/4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2 (446)
- ⑬ ITEM 441 - 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE 1 (446), PG64-22
- ⑭ ITEM 617 - COMPACTED AGGREGATE
- ⑮ ITEM 875 - LONGITUDINAL JOINT ADHESIVE
- ⑯ ITEM 611 - 6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS
- ⑰ ITEM 605 - 6" BASE PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC

EXISTING LEGEND

- Ⓐ ASPHALT CONCRETE (THICKNESS AS SHOWN)
- Ⓑ 6 1/2"± BASE
- Ⓒ EXISTING MACADAM
- Ⓓ 9" REINFORCED CONCRETE
- Ⓔ EXISTING GUARDRAIL

* ITEM 202, PAVEMENT REMOVED DOES NOT INCLUDE TOP 2 1/2" COVERED UNDER PAVEMENT PLANING

ROUNDING

THE ROUNDING AT SLOPE BREAKPOINTS SHOWN ON THE TYPICAL SECTIONS APPLIES TO ALL CROSS-SECTIONS EVEN THOUGH OTHERWISE SHOWN.

UTILITIES

LISTED BELOW ARE ALL UTILITIES LOCATED WITHIN THE PROJECT CONSTRUCTION LIMITS TOGETHER WITH THEIR RESPECTIVE OWNERS:

CENTURYLINK
175 ASHLAND RD.
MANSFIELD, OHIO 44902
419-755-7183

TOLEDO EDISON
6099 ANGOLA ROAD
HOLLAND, OHIO 43528
419-249-5218

WORK LIMITS

THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. 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.

PROFILE AND ALIGNMENT

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

SURVEY PARAMETERS

ALL ELEVATIONS ARE ORTHOMETRIC HEIGHTS USING THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) AND 2012A GEOID (GPS DERIVED). HORIZONTAL POSITIONS ARE BASED ON THE OHIO STATE PLANE NORTH ZONE, A LAMBERT CONFORMAL CONIC MAP PROJECTION, THE NORTH AMERICAN DATUM OF 1983 ADJUSTED TO THE NATIONAL SPATIAL REFERENCE SYSTEM OF 2011 (NAD 83 (2011)), AND THE GRS80 ELLIPSOID.

ASPHALT CONCRETE FOR DRIVEWAYS

THE FOLLOWING ESTIMATED QUANTITY FOR ASPHALT CONCRETE IS TO BE USED FOR ADJUSTING DRIVEWAYS AS DIRECTED BY THE ENGINEER:

ITEM 441 - ASPHALT CONCRETE SURFACE COURSE, TYPE 1 (448), PG64-22. 20 CU YD

TOTALS CARRIED TO GENERAL SUMMARY

THE PROJECT WILL NOT BE CONSIDERED COMPLETE UNTIL ALL DRIVEWAYS HAVE BEEN TREATED AS DIRECTED BY THE ENGINEER.

EXISTING MONUMENT BOXES

DURING CONSTRUCTION, IF THE CONTRACTOR REMOVES OR DISTURBS ANY MONUMENT BOX ASSEMBLIES, THE CONTRACTOR SHALL HAVE A REGISTERED SURVEYOR CERTIFY THAT THE MONUMENTS HAVE BEEN RESET AT THE ORIGINAL LOCATION AS PER OHIO ADMINISTRATIVE CODE, CHAPTER 4733-37, STANDARDS FOR BOUNDARY SURVEYS. THE CONTRACTOR SHALL FORWARD A COPY OF SAID CERTIFICATION TO THE PROJECT ENGINEER, AND THE DISTRICT SURVEY OPERATIONS MANAGER FOR REVIEW. THE CERTIFICATION SHALL BE SIMILAR TO THE FOLLOWING:

I, JOHN D. DOE, P.S. HEREBY CERTIFY THAT THE CENTERLINE MONUMENTATION HAS BEEN RESET AT THE PRECONSTRUCTION LOCATIONS DURING PROJECT CTY-RT-SEC, PID 000000. ALL OF MY WORK CONTAINED HEREIN WAS CONDUCTED IN ACCORDANCE WITH OHIO ADMINISTRATIVE CODE 4733-37 COMMONLY KNOWN AS "A MINIMUM STANDARDS FOR BOUNDARY SURVEYS IN THE STATE OF OHIO" UNLESS OTHERWISE NOTED. THE WORDS I AND MY, AS USED HEREIN, ARE TO MEAN MYSELF OR SOMEONE UNDER MY DIRECT SUPERVISION.

ALL SURVEY MONUMENTS SET AND/OR RESET BY THE CONTRACTOR'S SURVEYOR SHALL BE CONSTRUCTED ACCORDING TO SCD RM-1.1.

ALL COSTS ASSOCIATED WITH THE RE-SETTING OF THE MONUMENT BOXES SHALL BE AT THE CONTRACTORS' EXPENSE.

ITEM 202 - ANCHOR ASSEMBLY REMOVED, TYPE A, AS PER PLAN

THE CONTRACTOR SHALL REMOVE THE CONCRETE ANCHORS WHEN REMOVING THE ANCHOR ASSEMBLY, TYPE A.

PAVEMENT RESTORATION FOR CONCRETE PAD REMOVALS

THE FOLLOWING QUANTITY HAS BEEN PROVIDED FOR CONCRETE PAVEMENT REMOVAL AT VARIOUS AREAS ALONG S.R. 108.

LOCATIONS CAN BE FOUND ON PLAN SHEETS 14 & 15. QUANTITIES ARE BASED ON 12"-18" THICKNESS OF ITEM 301, ASPHALT CONCRETE BASE, PG64-22 AND A WIDTH OF 7'.

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

ITEM 202 - PAVEMENT REMOVED 486 SQ. YD.
ITEM 301 - ASPHALT CONCRETE BASE, PG64-22 203 CU. YD.

SAFETY EDGE

ITEM 441 - ASPHALT CONC. SURFACE COURSE, TYPE 1 (448), PG64-22
ITEM 441 - ASPHALT CONC. INTERMEDIATE COURSE, TYPE 2 (446)

THE FOLLOWING QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY FOR CONSTRUCTION OF THE SAFETY EDGE:

OTTAWA - S.R. 163 (27.16 - 31.07)
ITEM 441 - ASPHALT CONC. SURFACE COURSE, TYPE 1 (448), PG64-22 25 CU. YD.
ITEM 441 - ASPHALT CONC. INTERMEDIATE COURSE, TYPE 2 (446) 61 CU. YD.

ITEM 209, PREPARING SUBGRADE FOR SHOULDER PAVING

THE FOLLOWING QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY FOR ITEM 209, PREPARING SUBGRADE FOR CONSTRUCTION OF THE SAFETY EDGE:

HEN-108 STA. 0+00 TO STA. 278+61

10.54 MILES
-0.59 MILES (GUARDRAIL, DRIVE & CURB AREAS)
9.95 MILES

A QUANTITY OF 9.97 MILES HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR PREPARING SUBGRADE FOR SHOULDERS.

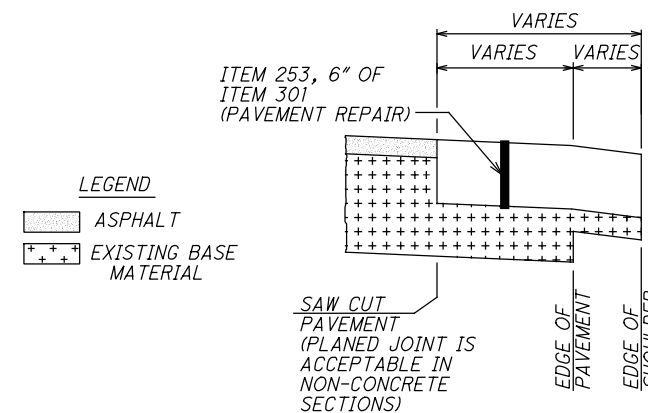
ITEM 253, PAVEMENT REPAIR

PAVEMENT SHALL BE PLANED BEFORE PAVEMENT REPAIRS ARE PERFORMED.

THE FOLLOWING ESTIMATED QUANTITIES ARE TO BE USED FOR 6" PAVEMENT REPAIR ON S.R. 108 AS DIRECTED BY THE ENGINEER BASED ON 0.05% OF THE PAVEMENT AREA.

ITEM 253, PAVEMENT REPAIR 387 CU. YARDS

ESTIMATED QUANTITIES CARRIED TO THE GENERAL SUMMARY



LEGEND
[Pattern] ASPHALT
[Pattern] EXISTING BASE MATERIAL

NOTE: THE ENGINEER SHALL FIELD VERIFY ALL LOCATIONS PRIOR TO THE BEGINNING OF WORK. ANY ADJUSTMENTS NECESSARY SHALL BE AS DIRECTED BY THE ENGINEER.

SIGN REMOVAL AND REERECTION

A QUANTITY HAVE BEEN SET UP FOR THE REMOVAL AND REERECTION OF THE SIGN AT STR. HEN-108-0412.

ITEM 630 - REMOVAL OF GROUND MOUNTED SIGN AND REERECTION 1 EACH

PRECAST REINFORCED CONCRETE OUTLET, AS PER PLAN

QUANTITY FOR ITEM 611, PRECAST REINFORCED CONCRETE OUTLET, AS PER PLAN SHALL INCLUDE ANIMAL GATES.

ITEM SPECIAL - MAILBOX SUPPORT

THIS WORK SHALL CONSIST OF FURNISHING AND ERECTING MAILBOX SUPPORTS AND ANY ASSOCIATED MOUNTING HARDWARE IN ACCORDANCE WITH PLAN DETAILS, AND ATTACHING AN OWNER-SUPPLIED MAILBOX AT LOCATIONS SPECIFIED IN THE PLAN, OR OTHERWISE ESTABLISHED BY THE ENGINEER.

WOOD POSTS SHALL BE NOMINAL 4 INCHES BY 4 INCHES SQUARE OR 4.5 INCHES DIAMETER ROUND, AND CONFORM TO T10.14.

STEEL POSTS SHALL BE NOMINAL PIPE SIZE 2 INCHES I.D., AND CONFORM TO AASHTO M 181.

ALL HARDWARE INCLUDING BUT NOT LIMITED TO PLATES, SCREWS, BOLTS, AND ETC. SHALL BE COMMERCIAL-GRADE GALVANIZED STEEL.

POSTS SHALL BE SET PER THE FIRST PARAGRAPH OF 606.03, AND SHALL IN NO INSTANCE BE ENCASED IN CONCRETE.

SUPPORT HARDWARE SHALL ACCOMMODATE EITHER A SINGLE OR A DOUBLE MAILBOX INSTALLATION, AND NO MORE THAN TWO BOXES MAY BE MOUNTED ON A SINGLE POST.

THE MAILBOX SHALL BE SECURELY AND NEATLY ATTACHED BY THE CONTRACTOR TO THE NEW SUPPORT. THE CONTRACTOR SHALL FURNISH ALL NECESSARY ATTACHMENT HARDWARE (NUTS, BOLTS, PLATES, SPACERS, AND WASHERS) AS NECESSARY TO ACCOMMODATE THE COMPLETE INSTALLATION.

IN THE ABSENCE OF A NEW BOX SUPPLIED BY THE OWNER, THE CONTRACTOR SHALL SALVAGE THE EXISTING BOX AND PLACE IT ON THE NEW SUPPORT. DUE CARE SHALL BE EXERCISED IN SUCH AN OPERATION, AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING ANY BOX DAMAGED BY IMPROPER HANDLING ON HIS PART, AS JUDGED AND DIRECTED BY THE ENGINEER.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE LOCAL POST MASTER REGARDING THE TIMING OF THE MOVEMENT OF ANY MAILBOX TO A NEW LOCATION.

PAYMENT UNDER THIS ITEM SHALL BE LIMITED TO FINAL PERMANENT INSTALLATIONS. TEMPORARY INSTALLATIONS SHALL BE IN ACCORDANCE WITH 107.10. HOWEVER, THE SAME MATERIAL AND SIZE LIMITATIONS AS FOR PERMANENT INSTALLATIONS SHALL APPLY.

MAILBOX SUPPORTS, COMPLETE IN PLACE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH, FOR ITEM SPECIAL MAILBOX SUPPORT SYSTEM, SINGLE.

THE FOLLOWING QUANTITY IS CARRIED TO THE GENERAL SUMMARY AS A CONTINGENCY QUANTITY AND SHOULD BE USED AS DIRECTED BY THE ENGINEER.

ITEM SPECIAL, MAILBOX SUPPORT SYSTEM, SINGLE 1 EACH

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CALCULATED
TLM
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JMF

GENERAL NOTES

HEN-108-0.00

ITEM 614, MAINTAINING TRAFFIC

A MINIMUM OF ONE LANE OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES, EXCEPT FOR A PERIOD NOT TO EXCEED 90 CONSECUTIVE CALENDAR DAYS, WHEN THROUGH TRAFFIC MAY BE DETOURED AS SHOWN ON THIS SHEET. A DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT OF \$3,500 PER DAY FOR EACH CALENDAR DAY THE ROADWAY REMAINS CLOSED TO TRAFFIC BEYOND THE SPECIFIED LIMIT.

SHOULDER WORK: DURING SHOULDER REPLACEMENT, WORK SHALL TAKE PLACE ON ONLY ONE SIDE OF THE ROADWAY AND THE CONTRACTOR SHALL MAINTAIN ONE-WAY TRAFFIC FOR LOCAL TRAFFIC. THE CONTRACTOR SHALL INSTALL ONE-WAY ARROW SIGNS (SIGN R6-1L/1R) AT ALL INTERSECTIONS AND DRIVEWAYS WITHIN THE CONSTRUCTION ZONE, ALONG WITH DO NOT ENTER SIGNS/ ROAD CLOSED BARRICADES (R11-2) AT CLOSURE LOCATIONS. ADDITIONALLY "WRONG WAY" SIGNS SHALL BE PLACED 100 FT AND 300 FT BACK OF EACH INTERSECTION TO PREVENT OPPOSING TRAFFIC FROM TRAVELING THE WRONG DIRECTION DURING ONE WAY TRAFFIC FLOW. ONE WAY TRAFFIC SHALL FLOW IN ITS NORMAL DIRECTION OF TRAVEL. (I.E. WHEN THE WEST SIDE OF SR 108 IS CLOSED FOR CONSTRUCTION THE ONE WAY TRAFFIC SHALL FLOW NORTHBOUND).

STRUCTURE WORK: A MINIMUM OF ONE LANE OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES EXCEPT FOR A PERIOD NOT TO EXCEED 10 CONSECUTIVE CALENDAR DAYS, WHEN THROUGH TRAFFIC MAY BE DETOURED AS SHOWN ON THIS SHEET. A DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT OF \$2,000 PER DAY FOR EACH CALENDAR DAY THE STRUCTURE REMAINS CLOSED TO TRAFFIC BEYOND THE SPECIFIED LIMIT. ONE LANE IN EACH DIRECTION SHALL BE MAINTAINED FOR LOCAL TRAFFIC BETWEEN CR-D AND THE STRUCTURE, AND THE STRUCTURE AND CR-F.

DETOUR FOR THE PROJECT SHALL BE S.R. 108 TO S.R. 613 TO S.R. 109 TO S.R. 281 TO S.R. 108.

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 CONTRACTOR SHALL PROVIDE, ERECT AND MAINTAIN SIGNS AND SIGN SUPPORTS, AS DETAILED IN THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, AND TYPE III BARRICADES OF THE TYPE AND LOCATION AS FOLLOWS:

SIGN R11-3 AND TYPE III BARRICADES:
STA. 0+00±
STA. 279+00±

SIGN R11-2 AND TYPE III BARRICADES:
AS SPECIFIED IN NOTE ABOVE

SIGN R6-1L/1R AND R5-1:
AS SPECIFIED IN NOTE ABOVE

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.

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH C&MS 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, UNLESS SEPARATELY ITEMIZED IN THE PLAN.

WINDOW CONTRACT TABLE

DESCRIPTION OF CRITICAL WORK	CALENDAR DAYS TO COMPLETE	DISINCENTIVE \$ PER DAY
ALL ASPHALT PAVEMENT REPLACEMENT & REPAIRS (UP TO AND INCLUDING ITEM 301 BASE COURSE), GUARDRAIL, AND SAFETY FEATURES	90	\$3,500 PER DAY
STR. HEN-108-0412	10	\$2,000 PER DAY

TRENCH FOR SHOULDER REPLACEMENT

TRENCH EXCAVATION FOR BASE WIDENING SHALL BE ONLY ON ONE SIDE OF THE PAVEMENT AT A TIME. THE OPEN TRENCH SHALL BE ADEQUATELY MAINTAINED AND PROTECTED WITH DRUMS OR BARRICADES AT ALL TIMES. PLACEMENT OF PROPOSED SUBBASE AND BASE MATERIAL SHALL FOLLOW AS CLOSELY AS POSSIBLE BEHIND EXCAVATION OPERATIONS. THE LENGTH OF WIDENING TRENCH WHICH IS OPEN AT ANY ONE TIME SHALL BE HELD TO A MINIMUM AND SHALL AT ALL TIMES BE SUBJECT TO APPROVAL OF THE ENGINEER.

THE CONTRACTOR SHALL USE CAUTION WHEN EXCAVATING AROUND EXISTING PIPES.

PLACEMENT OF ASPHALT CONCRETE

TWO-WAY TRAFFIC SHALL BE MAINTAINED AT ALL TIMES EXCEPT THAT ONE-WAY TRAFFIC WILL BE PERMITTED FOR MINIMUM PERIODS OF TIME CONSISTENT WITH THE REQUIREMENTS OF THE SPECIFICATIONS FOR PROTECTION OF COMPLETED ASPHALT CONCRETE COURSES.

COORDINATION WITH PROJECTS

DURING CONSTRUCTION OF THIS PROJECT, IT IS POSSIBLE THAT WORK WILL BE PERFORMED ON THE FOLLOWING PROJECTS:

PID 94319 HEN-108-6.354/15/20-7/31/20 (90-DAY CLOSURE)
PID 105662 HEN-18/281-8.46/2.359/1/20-10/30/20 (30-DAY CLOSURE)

IT WILL BE IMPORTANT TO COORDINATE WORK WHEN NECESSARY TO AVOID ANY POTENTIAL PROBLEMS.

WORK ZONE MARKINGS AND SIGNS

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY FOR USE AT LOCATIONS IDENTIFIED BY THE ENGINEER FOR WORK ZONE PAVEMENT MARKINGS AND SIGNS PER THE REQUIREMENTS OF CMS 614.04 AND 614.11.

ITEM 614 - WORK ZONE MARKING SIGN 33 EACH
ITEM 614 - WORK ZONE CENTER LINE, CLASS I 15.84 MILE
ITEM 614 - WORK ZONE EDGE LINE, CLASS I, 6" 42.24 MILE

QUANTITIES ARE BASED ON 3 APPLICATIONS FOR CENTER LINE, CLASS I AND 4 APPLICATIONS FOR EDGE LINE, CLASS I

NOTIFICATION OF TRAFFIC RESTRICTIONS

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

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

NOTIFICATION TIME TABLE

ITEM	DURATION OF CLOSURE	NOTICE DUE TO PERMITS & PIO
RAMP & ROAD CLOSURES	>= 2 WEEKS > 12 HOURS & < 2 WEEKS <= 12 HOURS	21 CALENDAR DAYS PRIOR TO CLOSURE 14 CALENDAR DAYS PRIOR TO CLOSURE 4 BUSINESS DAYS PRIOR TO CLOSURE
LANE CLOSURES & RESTRICTIONS	>= 2 WEEKS < 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE 5 BUSINESS DAYS PRIOR TO CLOSURE

START OF CONSTRUCTION & TRAFFIC PATTERN CHANGES 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.

ODOT NOTIFICATION CONTACT INFORMATION

THE ODOT PROJECT ENGINEER SHALL FORWARD THE CONSTRUCTION NOTIFICATION INFORMATION TO THE FOLLOWING DEPARTMENTS WITHIN THE TIMELINE OUTLINED IN THE "NOTIFICATION OF TRAFFIC RESTRICTIONS" NOTE TO ENSURE COMPLIANCE WITH FEDERAL NOTIFICATION REQUIREMENTS:

DISTRICT PUBLIC INFORMATION OFFICER (PIO)
BY PHONE AT: (419) 373-4428
OR EMAIL AT: D02.PIO@DOT.OHIO.GOV

DISTRICT PERMIT SECTION
BY PHONE AT: (419) 373-4301
OR EMAIL AT: D02.PERMITS@DOT.OHIO.GOV

ITEM 614, MAINTAINING TRAFFIC (ROAD CLOSED SIGN)

THE CONTRACTOR SHALL PROVIDE, ERECT AND MAINTAIN STANDARD 48 X 30 INCH ROAD CLOSED SIGNS, SIGN SUPPORTS, BARRICADES AND LIGHTS, AS DETAILED IN SCD MT-101.60 FOR EACH SEGMENT IN WHICH THE AFFECTED ROADS ARE CLOSED TO TRAFFIC.

THE OHIO DEPARTMENT OF TRANSPORTATION SHALL PROVIDE, PLACE AND MAINTAIN DETOUR SIGNS FOR S.R. 108.

LOCAL ACCESS MUST BE MAINTAINED AT ALL TIMES:

ACCESS TO ALL PROPERTIES MUST BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION. DRIVEWAY ACCESS SHALL BE MAINTAINED BY USE OF EXISTING AND PROPOSED PAVEMENT, BERMS, OR SHOULDERS. THE CONTRACTOR SHALL PROVIDE RESIDENTS AND/OR BUSINESSES WITH A MINIMUM FORTY-EIGHT (48) HOUR NOTICE WHEN ACCESS TO THEIR DRIVEWAYS WILL BE RESTRICTED/CHANGED DUE TO CONSTRUCTION.

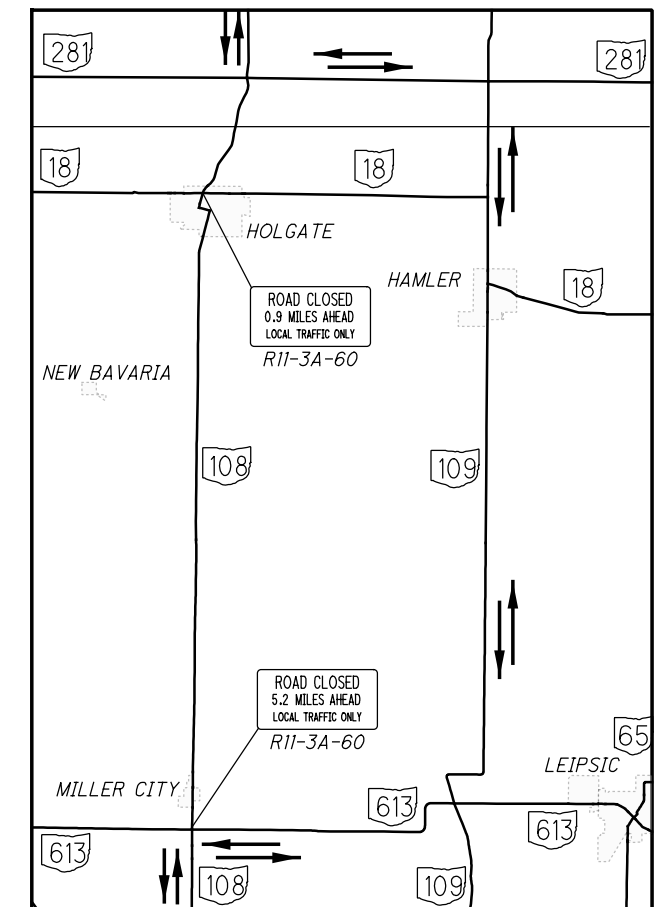
MAILBOXES/PAPER-BOXES ACCESS SHALL BE MAINTAINED AT ALL TIMES AND IF REQUIRED BOXES SHALL BE TEMPORARILY RELOCATED TO AREAS ACCESSIBLE TO BOTH THE MAIL SERVICE AND THE HOME OWNERS. ADDITIONALLY THE CONTRACTOR SHALL COOPERATE WITH LOCAL GARBAGE COLLECTION CONTRACTORS FOR ACCESS TO PICK UP OF RESIDENCE AND BUSINESS GARBAGE. THE CONTRACTOR SHALL COOPERATE WITH LOCAL SCHOOL DISTRICTS TO ENSURE SCHOOL BUSES ARE STILL ABLE TO PICK UP STUDENTS.

ALL WEDGING/REMOVAL OF WEDGING OF ASPHALT AT BUTT JOINTS/PHASE JOINTS/INTERSECTION/DRIVEWAYS THROUGHOUT THE PROJECT SHALL BE INCLUDED IN ITEM 614.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR USE AS DETERMINED BY THE ENGINEER FOR MAINTAINING TRAFFIC.

ITEM 410, TRAFFIC COMPACTED SURFACE TYPE A OR B 100 CU. YD.

DETOUR MAP



DETOUR FOR THE PROJECT SHALL BE S.R. 108 TO S.R. 613 TO S.R. 109 TO S.R. 281 TO S.R. 108.

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SHEET NUM.											PART.		ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
3	4	5	9	10	11	12	01/STR/PV	02/BRO/BR										
ROADWAY																		
486			30,484				30,970		202	23000	30,970	SY	PAVEMENT REMOVED					
				100			100		202	38000	100	FT	GUARDRAIL REMOVED					
				3			3		202	42001	3	EACH	ANCHOR ASSEMBLY REMOVED, TYPE A, AS PER PLAN	3				
				1			1		202	42040	1	EACH	ANCHOR ASSEMBLY REMOVED, TYPE T					
				4			4		202	47000	4	EACH	BRIDGE TERMINAL ASSEMBLY REMOVED					
			2,439				2,439		203	20000	2,439	CY	EMBANKMENT					
			35,565				35,565		204	10000	35,565	SY	SUBGRADE COMPACTION					
			11,855				11,855		204	13000	11,855	CY	EXCAVATION OF SUBGRADE					
			11,855				11,855		204	30020	11,855	CY	GRANULAR MATERIAL, TYPE C					
			30,484				30,484		204	50100	30,484	SY	GEOTEXTILE FABRIC, 712.09, TYPE A					
							11		209	60500	11	MILE	LINEAR GRADING					
9.95							9.95		209	72051	9.95	MILE	PREPARING SUBGRADE FOR SHOULDER PAVING, AS PER PLAN	3				
				213			213		606	15050	213	FT	GUARDRAIL, TYPE MGS					
				1			1		606	20050	1	EACH	ROUNDED END SECTION					
				3			3		606	26150	3	EACH	ANCHOR ASSEMBLY, MGS TYPE E, MASH2016					
				3			3		606	35140	3	EACH	BRIDGE TERMINAL ASSEMBLY, TYPE 4					
				1			1		606	35141	1	EACH	BRIDGE TERMINAL ASSEMBLY, TYPE 4, AS PER PLAN	6				
1							1		SPECIAL	69050100	1	EACH	MAILBOX SUPPORT SYSTEM, SINGLE	4				
EROSION CONTROL																		
	200						200		659	15000	200	SY	INTER-SEEDING					
							LS		832	15000	LS		STORM WATER POLLUTION PREVENTION PLAN					
							LS		832	15002	LS		STORM WATER POLLUTION PREVENTION INSPECTIONS					
							LS		832	15010	LS		STORM WATER POLLUTION PREVENTION INSPECTION SOFTWARE					
							20,000		832	30000	20,000	EACH	EROSION CONTROL					
DRAINAGE																		
						29,000	26,170	55,170	605	14020	55,170	FT	6" BASE PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC					
						1,015	945	1,960	611	90510	1,960	FT	6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS					
						29	27	56	611	99711	56	EACH	PRECAST REINFORCED CONCRETE OUTLET, AS PER PLAN	3				
PAVEMENT																		
387							387		253	02000	387	CY	PAVEMENT REPAIR					
			82,311				82,311		254	01000	82,311	SY	PAVEMENT PLANING, ASPHALT CONCRETE					
203			5,419				5,622		301	46000	5,622	CY	ASPHALT CONCRETE BASE, PG64-22					
			7,904				7,904		304	20000	7,904	CY	AGGREGATE BASE					
			17,938				17,938		407	20000	17,938	GAL	NON-TRACKING TACK COAT					
61			3,481				3,542		441	10000	3,542	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (446), PG64-22					
25			4,061				4,086		441	10200	4,086	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (446)					
20							20		441	50000	20	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22					
			1,694				1,694		617	10100	1,694	CY	COMPACTED AGGREGATE					
			6,966				6,966		875	10000	6,966	LB	LONGITUDINAL JOINT ADHESIVE					
TRAFFIC CONTROL																		
				350			350		621	00100	350	EACH	RPM					
				60			60		621	54000	60	EACH	RAISED PAVEMENT MARKER REMOVED					
				7			7		626	00116	7	EACH	BARRIER REFLECTOR, TYPE 5, BIDIRECTIONAL					
1							1		630	85100	1	EACH	REMOVAL OF GROUND MOUNTED SIGN AND REERECTION					
				10.56			10.56		642	00104	10.56	MILE	EDGE LINE, 6", TYPE 1					
				5.28			5.28		642	00300	5.28	MILE	CENTER LINE, TYPE 1					

GENERAL SUMMARY

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STATION RANGE	TYPICAL SECTION	SIDE	DISTANCE (D)	AVERAGE WIDTH (W)	SURFACE AREA (A) A=DxW/9	CADD GENERATED AREA	202	203	204	204	204	204	209	254	301	304	407	407	407	441	441	617	875		
							PAVEMENT REMOVED	EMBANKMENT	SUBGRADE COMPACTION	EXCAVATION OF SUBGRADE	GRANULAR MATERIAL, TYPE C	GEOTEXTILE FABRIC, 712.09, TYPE A	LINEAR GRADING	PAVEMENT PLANING, ASPHALT CONCRETE (T=2.5")	ASPHALT CONCRETE BASE, P664-22 (T=6")	AGGREGATE BASE (T=8")	NON-TRACKING TACK COAT @ 0.55 GAL/SQ. YD.	NON-TRACKING TACK COAT @ 0.085 GAL/SQ. YD.	NON-TRACKING TACK COAT @ 0.055 GAL/SQ. YD.	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (446), P664-22 (T=1.5")	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (446) (T=1.75")	COMPACTED AGGREGATE	LONGITUDINAL JOINT ADHESIVE		
				FT	FT	SY	SY	CY	SY	CY	CY	CY	MILE	SY	CY	CY	GAL	GAL	GAL	CY	CY	CY	LB		
FULL WIDTH RESURFACING																									
0+00.00	TO	215+85.00	A	LT/RT	21585.00	25.00	59958.33						7.81	59958.33			3297.71	5096.46		2498.26	2914.64		5396.25		
215+85.00	TO	217+45.00	A	LT/RT	160.00	25.00	444.44						0.06				24.44	37.78		18.52	21.60		40.00		
STR. HEN-108-0412 (91.28'x32')																									
218+36.00	TO	219+95.00	A	LT/RT	159.00	25.00	441.67						0.05				24.29	37.54		18.40	21.47		39.75		
219+95.00	TO	278+61.00	A	LT/RT	5866.00	25.00	16294.44						2.12	16294.44			896.19	1385.03		678.94	792.09		1466.50		
SHOULDER REPLACEMENT																									
0+00.00	TO	52+55.00	A	LT	5255.00	5.00	2919.44	2919.44	233.56	3406.02	1135.34	1135.34	2919.44		519.01	756.89	160.57	248.15	160.57			162.19			
0+30.00	TO	26+20.00	A	RT	2590.00	5.00	1438.89	1438.89	115.11	1678.70	559.57	559.57	1438.89		255.80	373.05	79.14	122.31	79.14			79.94			
26+60.00	TO	52+69.00	A	RT	2609.00	5.00	1449.44	1449.44	115.96	1691.02	563.67	563.67	1449.44		257.68	375.78	79.72	123.20	79.72			80.52			
53+20.00	TO	91+24.00	A	LT	3804.00	5.00	2113.33	2113.33	169.07	2465.56	821.85	821.85	2113.33		375.70	547.90	116.23	179.63	116.23			117.41			
53+15.00	TO	91+32.00	A	RT	3817.00	5.00	2120.56	2120.56	169.64	2473.98	824.66	824.66	2120.56		376.99	549.77	116.63	180.25	116.63			117.81			
92+10.00	TO	132+24.00	A	LT	4014.00	5.00	2230.00	2230.00	178.40	2601.67	867.22	867.22	2230.00		396.44	578.15	122.65	189.55	122.65			123.89			
91+94.00	TO	105+66.00	A	RT	1372.00	5.00	762.22	762.22	60.98	889.26	296.42	296.42	762.22		135.51	197.61	41.92	64.79	41.92			42.35			
106+26.00	TO	132+34.00	A	RT	2608.00	5.00	1448.89	1448.89	115.91	1690.37	563.46	563.46	1448.89		257.58	375.64	79.69	123.16	79.69			80.49			
132+92.00	TO	158+60.00	A	LT	2568.00	5.00	1426.67	1426.67	114.13	1664.44	554.81	554.81	1426.67		253.63	369.88	78.47	121.27	78.47			79.26			
132+77.00	TO	158+61.00	A	RT	2584.00	5.00	1435.56	1435.56	114.84	1674.81	558.27	558.27	1435.56		255.21	372.18	78.96	122.02	78.96			79.75			
159+10.00	TO	217+45.00	A	LT	5835.00	5.00	3241.67	3241.67	259.33	3781.94	1260.65	1260.65	3241.67		576.30	840.43	178.29	275.54	178.29			180.09			
159+19.00	TO	217+45.00	A	RT	5826.00	5.00	3236.67	3236.67	258.93	3776.11	1258.70	1258.70	3236.67		575.41	839.14	178.02	275.12	178.02			179.81			
STR. HEN-108-0412																									
218+36.00	TO	264+65.00	A	LT	4629.00	5.00	2571.67	2571.67	205.73	3000.28	1000.09	1000.09	2571.67		457.19	666.73	141.44	218.59	141.44			142.87			
265+26.00	TO	278+61.00	A	LT	1335.00	5.00	741.67	741.67	59.33	865.28	288.43	288.43	741.67		131.85	192.28	40.79	63.04	40.79			41.20			
218+36.00	TO	278+61.00	A	RT	6025.00	5.00	3347.22	3347.22	267.78	3905.09	1301.70	1301.70	3347.22		595.06	867.80	184.10	284.51	184.10			185.96			
INTERSECTIONS																									
C.R. A				RT		14.00	506.00							506.00			27.83	43.01	27.83	21.08	24.60				
C.R. A2				RT		15.00	302.00							302.00			16.61	25.67	16.61	12.58	14.68				
C.R. B				LT		23.00	810.00							810.00			44.55	68.85	44.55	33.75	39.38				
C.R. B				RT		15.00	300.00							300.00			16.50	25.50	16.50	12.50	14.58				
C.R. Y				LT		17.00	797.00							797.00			43.84	67.75	43.84	33.21	38.74				
C.R. Y				RT		15.00	511.00							511.00			28.11	43.44	28.11	21.29	24.84				
C.R. C				RT		15.00	338.00							338.00			18.59	28.73	18.59	14.08	16.43				
C.R. C2				LT		15.00	700.00							700.00			38.50	59.50	38.50	29.17	34.03				
C.R. C2				RT		15.00	366.00							366.00			20.13	31.11	20.13	15.25	17.79				
C.R. D				LT		15.00	444.00							444.00			24.42	37.74	24.42	18.50	21.58				
C.R. D				RT		15.00	493.00							493.00			27.12	41.91	27.12	20.54	23.97				
C.R. F				LT		15.00	491.00							491.00			27.01	41.74	27.01	20.46	23.87				
SUBTOTALS							30483.89		2438.71	35564.54	11854.85	11854.85	30483.89	10.04	82310.78	5419.36	7903.23	6257.46	9670.62	2009.80	3480.06	4060.07	1693.55	6965.32	
TOTALS CARRIED TO GENERAL SUMMARY							30484		2439	35565	11855	11855	30484	11	82311	5419	7904	6257	9671	2010	3481	4061	1694		6966

PAVEMENT CALCULATIONS

HEN-108-0.00

CALCULATED
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STATION TO STATION				SIDE	605	611	611																
					6" BASE PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC	6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS	PRECAST REINFORCED CONCRETE OUTLET, AS PER PLAN																
					FT	FT	EACH																
145+00.00	TO	150+00.00	LT		500.00	35	1																
145+00.00	TO	150+00.00	RT		500.00																		
150+00.00	TO	155+00.00	LT		500.00	35	1																
150+00.00	TO	155+00.00	RT		500.00																		
155+00.00	TO	160+00.00	LT		500.00	35	1																
155+00.00	TO	160+00.00	RT		500.00																		
160+00.00	TO	165+00.00	LT		500.00	35	1																
160+00.00	TO	165+00.00	RT		500.00																		
165+00.00	TO	170+00.00	LT		500.00	35	1																
165+00.00	TO	170+00.00	RT		500.00																		
170+00.00	TO	175+00.00	LT		500.00	35	1																
170+00.00	TO	175+00.00	RT		500.00																		
175+00.00	TO	180+00.00	LT		500.00	35	1																
175+00.00	TO	180+00.00	RT		500.00																		
180+00.00	TO	185+00.00	LT		500.00	35	1																
180+00.00	TO	185+00.00	RT		500.00																		
185+00.00	TO	190+00.00	LT		500.00	35	1																
185+00.00	TO	190+00.00	RT		500.00																		
190+00.00	TO	195+00.00	LT		500.00	35	1																
190+00.00	TO	195+00.00	RT		500.00																		
195+00.00	TO	200+00.00	LT		500.00	35	1																
195+00.00	TO	200+00.00	RT		500.00																		
200+00.00	TO	205+00.00	LT		500.00	35	1																
200+00.00	TO	205+00.00	RT		500.00																		
205+00.00	TO	210+00.00	LT		500.00	35	1																
205+00.00	TO	210+00.00	RT		500.00																		
210+00.00	TO	215+00.00	LT		500.00	35	1																
210+00.00	TO	215+00.00	RT		500.00																		
215+00.00	TO	217+35.00	LT		235.00	35	1																
215+00.00	TO	217+35.00	RT		235.00																		
STRUCTURE HEN-108-0412																							
218+50.00	TO	220+00.00	LT		150.00																		
218+50.00	TO	220+00.00	RT		150.00																		
220+00.00	TO	225+00.00	LT		500.00																		
220+00.00	TO	225+00.00	RT		500.00	35	1																
225+00.00	TO	230+00.00	LT		500.00																		
225+00.00	TO	230+00.00	RT		500.00	35	1																
230+00.00	TO	235+00.00	LT		500.00																		
230+00.00	TO	235+00.00	RT		500.00	35	1																
235+00.00	TO	240+00.00	LT		500.00	35	1																
235+00.00	TO	240+00.00	RT		500.00																		
240+00.00	TO	245+00.00	LT		500.00	35	1																
240+00.00	TO	245+00.00	RT		500.00																		
245+00.00	TO	250+00.00	LT		500.00	35	1																
245+00.00	TO	250+00.00	RT		500.00																		
250+00.00	TO	255+00.00	LT		500.00	35	1																
250+00.00	TO	255+00.00	RT		500.00																		
255+00.00	TO	260+00.00	LT		500.00	35	1																
255+00.00	TO	260+00.00	RT		500.00																		
260+00.00	TO	264+00.00	LT		400.00	35	1																
260+00.00	TO	264+00.00	RT		400.00																		
264+00.00	TO	269+00.00	LT		500.00	35	1																
264+00.00	TO	269+00.00	RT		500.00																		
269+00.00	TO	273+00.00	LT		400.00	35	1																
269+00.00	TO	273+00.00	RT		400.00																		
273+00.00	TO	277+00.00	LT		400.00	35	1																
273+00.00	TO	277+00.00	RT		400.00																		
TOTALS CARRIED TO GENERAL SUMMARY					26170	945	27																

CALCULATED	TLM	CHECKED	JMF
UNDERDRAIN CALCULATIONS			
HEN-108-0.00			
12		18	