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 OMUTCD INTENDS THAT FLAGGERS BE USED.

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

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 OMUTCD, A UNIFORMED LEO WITH AN OFFICIAL PATROL CAR (CAR WITH TOP MOUNTED EMERGENCY FLASHING LIGHTS AND COMPLETE MARKINGS OF THE APPROPRIATE LAW ENFORCEMENT AGENCY) 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 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).

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.

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

ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE 300 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.

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 SHUT-DOWNS.

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 R11-H5A-48 SIGNS SHALL BE MOUNTED ON 2 NO. 3 POSTS WHEN LOCATED WITHIN CLEAR ZONES.

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

WORK ZONE INCREASED PENALTIES SIGNS AND SUPPORTS WILL BE MEASURED AS THE NUMBER OF SIGN INSTALLATIONS, INCLUDING THE SIGN AND NECESSARY SUPPORTS. IF A SIGN AND SUPPORT COMBINATION IS REMOVED AND 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.

ITEM 614, WORK ZONE INCREASED PENALTIES SIGN 3 EACH

WORK ZONE INCREASED PENALTIES SIGNS WILL BE PLACED AT THE FOLLOWING LOCATIONS:

- IN ADVANCE OF THE WORK ZONE ON IR-680 NB
- IN ADVANCE OF THE WORK ZONE ON IR-680 NB ENTRANCE RAMP FROM US-224 WB (RAMP W)

DUST CONTROL

THE CONTRACTOR SHALL FURNISH AND APPLY WATER FOR DUST CONTROL AS DIRECTED BY THE ENGINEER. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED FOR DUST CONTROL PURPOSES:

ITEM 616, WATER 50 M. GAL.

ITEM 614, WORK ZONE RAISED PAVEMENT MARKER, AS PER PLAN

WORK ZONE RAISED PAVEMENT MARKERS, AS PER PLAN, AND THEIR INSTALLATION SHALL CONFORM TO C&MS 614 OR C&MS 621 AS SPECIFIED HEREIN.

RAISED PAVEMENT MARKERS IN USE DURING THE SNOW-PLOWING SEASON SHALL CONFORM TO 621.

RAISED PAVEMENT MARKERS IN USE DURING THE NON-SNOW-PLOW SEASON SHALL CONFORM TO EITHER 614 OR TO 621.

THE SNOW-PLOWING SEASON SHALL RUN FROM OCTOBER 15 THROUGH MARCH 31.

IF PROJECT DELAYS, NOT THE FAULT OF ODOT, CAUSE THE WORK TO EXTEND INTO THE SNOW-PLOWING SEASON, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING WORK ZONE RAISED PAVEMENT MARKERS (WZRPMS) CONFORMING TO C&MS 614, WITH RAISED PAVEMENT MARKERS CONFORMING TO 621, AS DETERMINED BY THE ENGINEER, AT THE CONTRACTOR'S EXPENSE.

THIS ITEM SHALL INCLUDE PURCHASE, INSTALLATION AND REMOVAL OF ITEM 614 WORK ZONE RAISED PAVEMENT MARKER, AS PER PLAN, INCLUDING FILLING OF ANY DEPRESSIONS CREATED IN THE PAVEMENT AS PER C&MS 621.08.

PERMITTED LANE CLOSURE SCHEDULE (PLCS)

LANE CLOSURE(S) SHALL CONFORM TO THE PLCS. PUBLISHED PLCS INFORMATION CAN BE FOUND ON THE ODOT WEBSITE.

THE MONTHLY PUBLISHED SCHEDULES REQUIRED TO BE USED, FOR EACH PLCS SEGMENT WITHIN THE PROJECT AREA, ARE THOSE THAT COMPRISE THE CONSECUTIVE 12-MONTH PERIOD BEGINNING 15 MONTHS PRIOR TO THE MONTH AND YEAR OF SALE AND ENDING 4 MONTHS PRIOR TO THE MONTH AND YEAR OF SALE. THESE SAME 12 MONTHS APPLY FOR THE LIFE OF THE PROJECT AND SHALL BE APPLIED TO EACH RESPECTIVE MONTH OF CONSTRUCTION (MONTH OF LANE CLOSURE(S) SHALL MATCH MONTH OF PLCS USED). LANE CLOSURE(S) IN PLACE FOR MULTIPLE MONTHS SHALL ALWAYS COMPLY WITH THE CURRENT RESPECTIVE MONTH.

(FOR EXAMPLE: IF THE SALE DATE FOR THE PROJECT WAS MARCH OF 2021, THE MONTHLY PUBLISHED SCHEDULES FOR EACH APPLICABLE PLCS SEGMENT WOULD BE DECEMBER 2019 TO NOVEMBER 2020. IF THIS WAS A THREE-YEAR PROJECT, YEAR THREE WOULD STILL BE USING THE DECEMBER 2019 TO NOVEMBER 2020 MONTHLY SCHEDULES. IF THE PROJECT DESIRED TO CLOSE TWO LANES IN JUNE 2021, REFERENCE WOULD BE MADE TO THE JUNE 2020 SCHEDULE(S) FOR THE RESPECTIVE PLCS SEGMENT(S). IF THE SAME TWO LANES WERE DESIRED TO BE CLOSED AGAIN IN JULY 2021, REFERENCE WOULD BE MADE TO THE JULY 2020 SCHEDULE(S) FOR THE RESPECTIVE PLCS SEGMENT(S).)

ALLOWABLE LANE CLOSURE HOURS FOR FACILITIES NOT COVERED BY THE PLCS, IF ANY, SHALL BE AS SPECIFIED ELSEWHERE IN THE PLANS.

2

2 *09-09-24: ADDENDUM R2 - REVISED PLCS NOTE*

MAH-680-9.30 NOISE ABATEMENT

MAINTENANCE OF TRAFFIC GENERAL NOTES

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 2024-09-06 TIME: 11:17:43 AM USER: sean.buchanan
J:\136694_MAH-680-9.30\Worksets\110931\400-Engineering\MOT\Sheets\110931_MN002.dgn

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DESIGNER JMK

REVIEWER JDH 05-30-24

PROJECT ID 110931

SHEET P.11 TOTAL 183

SHEET NUM.											PART.			ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
P.7	P.8	P.9	P.21	P.22	P.25						01/IMS/44								
																		ROADWAY	
LS											LS			201	11001	LS		CLEARING AND GRUBBING, AS PER PLAN	7
			77								77			202	30700	77	FT	CONCRETE BARRIER REMOVED	
			662								662			202	38000	662	FT	GUARDRAIL REMOVED	
				12							12			202	38500	12	FT	BRIDGE RAILING REMOVED	
			5,114								5,114			202	75000	5,114	FT	FENCE REMOVED	
	5										5			202	98100	5	EACH	REMOVAL MISC.: INSPECTION WELL	8
	25										25			202	98200	25	FT	REMOVAL MISC.: CONDUIT	8
			2,258		432						2,690			203	10000	2,690	CY	EXCAVATION	
			1,854								1,854			203	20000	1,854	CY	EMBANKMENT	
	50										50			203	20001	50	CY	EMBANKMENT, AS PER PLAN	8
			260								260			203	98000	260	CY	ROADWAY, MISC.: TEMPORARY OVER-STEEPENED FILL	8
				2,504							2,504			204	10000	2,504	SY	SUBGRADE COMPACTION	
				2							2			204	45000	2	HOUR	PROOF ROLLING	
			3								3			209	60201	3	STA	LINEAR GRADING, AS PER PLAN	7
			100								100			606	15050	100	FT	GUARDRAIL, TYPE MGS	
			2								2			606	26150	2	EACH	ANCHOR ASSEMBLY, MGS TYPE E (MASH 2016)	9
			2								2			606	35002	2	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1	
			77								77			607	23000	77	FT	FENCE, TYPE CLT	
		5,114									5,114			607	98000	5,114	FT	FENCE, MISC.: TEMPORARY FENCE	9
			38								38			609	24510	38	FT	CURB, TYPE 4-C	
				3,450							3,450			622	90000	3,450 2	FT	BARRIER, MISC.:CONCRETE BARRIER, 81" SSB	139
				19							19			622	90200	19	EACH	BARRIER, MISC.:CONCRETE BARRIER, 81" SSB, END ANCHORAGE, REINFORCED	139
				1							1			622	90200	1	EACH	BARRIER, MISC.:CONCRETE BARRIER, 81" SSB, WINDOW SECTION	141
				1							1			622	90200	1	EACH	BARRIER, MISC.:CONCRETE BARRIER, 81" SSB, END SECTION, AS PER PLAN	138
				2							2			622	90200	2	EACH	BARRIER, MISC.:CONCRETE BARRIER, 81" SSB, END SECTION, 32" TO 81"	138
		LS									LS			SPECIAL	69091000	LS		AS-BUILT CONSTRUCTION PLANS	9
	LS										LS			SPECIAL	69098400	LS		SURVEY CONTROL VERIFICATION	8
																		EROSION CONTROL	
	10			74							84			601	21050	84	SY	TIED CONCRETE BLOCK MAT WITH TYPE 1 UNDERLAYMENT	
				1,384							1,384			601	32100	1,384	CY	ROCK CHANNEL PROTECTION, TYPE B WITH FILTER	
				6							6			601	32200	6	CY	ROCK CHANNEL PROTECTION, TYPE C WITH FILTER	
2											2			659	00100	2	EACH	SOIL ANALYSIS TEST	
4,576					432						5,008			659	00300	5,008	CY	TOPSOIL	
41,224											41,224			659	10000	41,224	SY	SEEDING AND MULCHING	
2,062											2,062			659	14000	2,062	SY	REPAIR SEEDING AND MULCHING	
2,062											2,062			659	15000	2,062	SY	INTER-SEEDING	
5.75											5.75			659	20000	5.75	TON	COMMERCIAL FERTILIZER	
8.52											8.52			659	31000	8.52	ACRE	LIME	
229											229			659	35000	229	MGAL	WATER	
					3,878						3,878			670	00500	3,878	SY	SLOPE EROSION PROTECTION	
					LS						LS			832	15000	LS		STORM WATER POLLUTION PREVENTION PLAN	
					LS						LS			832	15002	LS		STORM WATER POLLUTION PREVENTION INSPECTIONS	
					LS						LS			832	15010	LS		STORM WATER POLLUTION PREVENTION INSPECTION SOFTWARE	
											143,689			832	30000	143,689	EACH	EROSION CONTROL	
																		DRAINAGE	
				1.89							1.89			602	20000	1.89	CY	CONCRETE MASONRY	
	50			4,842							4,892			605	13300	4,892	FT	6" UNCLASSIFIED PIPE UNDERDRAINS	
	50										50			605	31100	50 2	FT	AGGREGATE DRAINS	
	25			276							301			611	00510	301	FT	6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS	
				141							141			611	06100	141	FT	15" CONDUIT, TYPE C	
				86							86			611	06700	86	FT	15" CONDUIT, TYPE F	
	25										25			611	97400	25	FT	CONDUIT, MISC.: TYPE B FOR DRAINAGE DISCHARGE CONTINUANCE	8
	25										25			611	97400	25	FT	CONDUIT, MISC.: TYPE C FOR DRAINAGE DISCHARGE CONTINUANCE	8
	25										25			611	97400	25	FT	CONDUIT, MISC.: TYPE E FOR DRAINAGE DISCHARGE CONTINUANCE	8

2 *09-09-24: ADDENDUM R2 - REVISED UNDERDRAINS TO UNCLASSIFIED - REVISED CONCRETE BARRIER LENGTH*

GENERAL SUMMARY

MAH-680-9.30 NOISE ABATEMENT

MODEL: GG001 PAPERSIZE: 34x22 (in.) DATE: 2024-09-06 TIME: 5:36:22 PM USER: sean.buchanan
J:\136694_MAH-680-9.30\Worksets\110931\1400-Engineering\Roadway\Sheets\110931_GG001.dgn

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REVIEWER JDH 05-30-24

PROJECT ID 110931

SHEET P.19 TOTAL 183

SHEET NUM.											PART.			ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
P.8	P.11	P.12	P.21	P.22							01/IMS/44								
																		DRAINAGE (CONT.)	
25											25			611	97400	25	FT	CONDUIT, MISC.: TYPE F FOR DRAINAGE DISCHARGE CONTINUANCE	8
				7							7			611	99500	7	EACH	INLET, MISC.: INLET NO. 3 FOR 81" SINGLE SLOPE BARRIER	143
5				12							17			611	99710	17	EACH	PRECAST REINFORCED CONCRETE OUTLET	
5											5			611	99720	5	EACH	INSPECTION WELL	
																		PAVEMENT	
				4,050							4,050			255	20000	4,050	FT	FULL DEPTH PAVEMENT SAWING 2	
				419							419			304	20000	419	CY	AGGREGATE BASE	
				137							137			407	20000	137	GAL	NON-TRACKING TACK COAT	
				20							20			441	70000	20	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG64-22	
			19								19			441	70801	19	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (449), (UNDER GUARDRAIL), AS PER PLAN	7
				2,279							2,279			452	13010	2,279	SY 1	9" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P	
																		TRAFFIC CONTROL	
			33.8								33.8			630	03100	33.8	FT	GROUND MOUNTED SUPPORT, NO. 3 POST	
			49.5								49.5			630	80100	49.5	SF	SIGN, FLAT SHEET	
			1								1			630	80100	1	SF	SIGN, FLAT SHEET (TYPE 730.20)	
			6								6			630	81021	6	EACH	CONCRETE MEDIAN BARRIER SIGN BRACKET, AS PER PLAN	146
			2								2			630	82000	2	EACH	SIGN BACKING ASSEMBLY	
			6								6			630	84900	6	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	
			9								9			630	86002	9	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	
			0.83								0.83			644	00204	0.83	MILE	LANE LINE, 6"	
																		NOISE BARRIERS	
				61,413							61,413			SPECIAL	60610210	61,413	SF	NOISE BARRIER (REFLECTIVE)	136
				4,392							4,392			SPECIAL	60610920	4,392	SF	NOISE BARRIER (REFLECTIVE WITH ICON)	136
																		MISCELLANEOUS STRUCTURE	
				12							12			517	74501	12	FT	RAILING, CONCRETE, AS PER PLAN	137
																		MAINTENANCE OF TRAFFIC	
	300										300			614	11110	300	HOUR	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	
	3										3			614	12484	3	EACH	WORK ZONE INCREASED PENALTIES SIGN	
			239								239			614	12801	239	EACH	WORK ZONE RAISED PAVEMENT MARKER, AS PER PLAN	11
		6									6			614	18601	6	SNMT	PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN	12
			1.77								1.77			614	22326	1.77	MILE	WORK ZONE EDGE LINE, CLASS I, 6", 873	
			3,120								3,120			614	23130	3,120	FT	WORK ZONE CHANNELIZING LINE, CLASS I, 12", 873	
			1,880								1,880			614	24122	1,880	FT	WORK ZONE DOTTED LINE, CLASS I, 6", 873	
	50										50			616	10000	50	MGAL	WATER	
		18									18			808	18700	18	SNMT	DIGITAL SPEED LIMIT (DSL) SIGN ASSEMBLY	
																		INCIDENTALS	
											LS			614	11000	LS		~~MAINTAINING TRAFFIC~~	
										A	10			619	16010	10	MNTH	FIELD OFFICE, TYPE B	
											LS			623	10000	LS		~~CONSTRUCTION LAYOUT STAKES AND SURVEYING~~	
											LS			624	10000	LS		MOBILIZATION	

A 06-12-24: INCREASED DURATION OF FIELD OFFICE, TYPE B

1 08-29-24: ADDENDUM R1 - UPDATED QUANTITY VALUE FOR ITEM 452 TO SY FROM CY

2 09-09-24: ADDENDUM R2 - ADDED LINE ITEM FOR SAWCUTTING

GENERAL SUMMARY

MAH-680-9.30 NOISE ABATEMENT

MODEL: GG002 PAPERSIZE: 34x22 (in.) DATE: 2024-09-06 TIME: 2:25:21 PM USER: sean.buchanan
J:\136694_MAH-680-9.30\Worksets\110931\1400-Engineering\Roadway\Sheets\110931_GG002.dgn

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DESIGNER JMK

REVIEWER JDH 05-30-24

PROJECT ID 110931

SHEET P.20 TOTAL 183

UNDERDRAIN SUBSUMMARY

REF. NO.	SHEET NO.	STATION FROM	SIDE	OFFSET	STATION TO	SIDE	OFFSET	601 TIED CONCRETE BLOCK MAT WITH TYPE 1 UNDERLAYMENT SY	605 6" UNCLASSIFIED BASE PIPE UNDERDRAINS 2 FT	611 6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS FT	611 PRECAST REINFORCED CONCRETE OUTLET EACH	BENDS AND BRANCHES FOR INFORMATION ONLY PLUG NO.	45 DEGREE BEND NO.	
		NOISE WALL 4												
UD-1	P.35 - P.36	4000+00.00	RT	2.00	4004+82.00	RT	2.00		482	12		1	2	
EC-11	P.35	588+71.48, IR 680	RT	101.09				2			1			
UD-2	P.36 - P.37	4004+92.00	RT	2.00	4007+26.00	RT	2.00		234	25		1	2	
EC-12	P.36	593+62.92, IR 680	RT	111.22				2			1			
UD-3	P.37	4007+36.00	RT	2.00	4010+69.00	RT	2.00		333	18		1	2	
EC-14	P.37	599+53.32, IR 680	RT	123.14				2			1			
UD-4	P.37 - P.38	4010+79.00	RT	2.00	4013+96.93	RT	2.00		318	19		1	2	
EC-15	P.38	602+81.82, IR 680	RT	118.02				2			1			
UD-5	P.38 - P.39	4014+11.07	RT	2.00	4017+28.00	RT	2.00		317	10		1	1	
		NOISE WALL 7												
UD-6	P.40	700+00.00	RT	2.00	701+25.93	RT	2.00		126	21		1	2	
EC-17	P.40	608+28.32, IR 680	RT	123.07				2			1			
UD-7	P.40	701+40.07	RT	2.00	702+95.00	RT	2.00		155	10		1	1	
UD-7A	P.40 - P.41	703+12.00	RT	2.00	705+88.00	RT	2.00		276	21		1	2	
EC-18A	P.40	609+98.53, IR 680	RT	124.49				2			1			
UD-8	P.41 - P.42	705+98.00	RT	2.00	709+53.00	RT	2.00		355	17		1	2	
EC-23	P.42	616+48.23, IR 680	RT	128.66				2			1			
UD-9	P.42	709+63.00	RT	2.00	712+57.93	RT	2.00		295	28		1	2	
UD-10	P.42 - P.43	712+72.07	RT	2.00	714+82.00	RT	2.00		205	10		1	1	
EC-26	P.42	619+53.16, IR 680	RT	117.30				2			1			
UD-11	P.43 - P.44	714+92.00	RT	2.00	719+91.00	RT	2.00		499	27		1	2	
EC-30	P.44	626+87.28, IR 680	RT	129.11				2			1			
UD-12	P.44 - P.45	720+01.00	RT	2.00	724+95.00	RT	2.00		494	11		1	2	
EC-32	P.45	632+10.83, IR 680	RT	146.32				2			1			
UD-13	P.45	725+05.00	RT	2.00	726+31.93	RT	2.00		127	19		1	2	
UD-14	P.45 - P.46	726+46.07	RT	2.00	730+03.00	RT	2.00		356	10		1	1	
EC-33	P.45	633+54.84, IR 680	RT	156.37				2			1			
UD-15	P.46	730+13.00	RT	2.00	732+83.00	RT	2.00		270	18		1	2	
EC-34	P.46	638+60.05, IR 680	RT	545.06				2			1			
TOTALS CARRIED TO GENERAL SUMMARY								24	4842	276	12	16	28	

EROSION CONTROL SUBSUMMARY

REF. NO.	SHEET NO.	STATION FROM	STATION TO	SIDE	601 TIED CONCRETE BLOCK MAT WITH TYPE 1 UNDERLAYMENT SY	601 ROCK CHANNEL PROTECTION, TYPE B WITH FILTER CY	601 ROCK CHANNEL PROTECTION, TYPE C WITH FILTER CY
		81" SSB 1					
EC-1	P.27	539+28.21, IR 680		RT	24		
EC-2	P.29	112+00.00		RT			2
EC-3	P.31	118+50.00		RT			2
EC-4	P.31	121+00.00		RT			2
EC-5	NOT USED						
EC-6	NOT USED						
EC-7	NOT USED						
	81" SSB 4 / NOISE WALL 4						
EC-8	NOT USED						
EC-9	P.35	417+00.00		RT	17		
EC-10	P.35	589+81.75, IR 680		RT	9		
EC-13	P.36	4004+80.00	4005+04.00	LT/RT		23	
EC-16	P.38	4015+84.00	4016+08.00	LT		20	
	NOISE WALL 7						
EC-18	P.40	702+27.00	702+75.00	LT/RT		223	
EC-19	P.40	702+99.00	703+71.00	LT/RT		334	
EC-20	P.41	706+05.00	706+29.00	LT/RT		107	
EC-21	P.41	707+01.00	707+25.00	LT/RT		58	
EC-22	P.41	707+73.00	707+97.00	LT/RT		112	
EC-24	P.42	709+65.00	709+89.00	LT/RT		89	
EC-25	P.42	709+89.00	710+13.00	LT/RT		89	
EC-27	P.42	712+53.00	712+77.00	LT/RT		23	
EC-28	P.43	716+91.00	717+15.00	LT/RT		123	
EC-29	P.43	717+39.00	717+63.00	LT/RT		123	
EC-31	P.44	720+51.00	720+75.00	LT/RT		60	
TOTALS CARRIED TO GENERAL SUMMARY					50	1384	6

2 *09-09-24: ADDENDUM R2 - ADDED LINE ITEM FOR SAWCUTTING*
- REVISED UNDERDRAINS TO UNCLASSIFIED
- REVISED CONCRETE BARRIER LENGTH

1 *08-29-24: ADDENDUM R1 - UPDATED QUANTITY VALUE FOR ITEM 452 TO SY FROM CY*

NOISE ABATEMENT STRUCTURE SUBSUMMARY

REF. NO.	SHEET NO.	STATION FROM	STATION TO	202 BRIDGE RAILING REMOVED FT	204 SUBGRADE COMPACTION SY	204 PROOF ROLLING HOUR	255 FULL DEPTH PAVEMENT SAWING 2 FT	304 AGGREGATE BASE (6") CY	407 NON-TRACKING TACK COAT (APPLIED AT 0.06 GAL/SY) GAL	441 ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG64-22 (1.5") CY	452 9" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P 1 SY	517 RAILING, CONCRETE, AS PER PLAN FT	602 CONCRETE MASONRY CY	606 SPECIAL - NOISE BARRIER (REFLECTIVE) SF	606 SPECIAL - NOISE BARRIER (REFLECTIVE WITH ICON) SF	611 15" CONDUIT, TYPE C FT	611 15" CONDUIT, TYPE F FT	611 INLET, MISC.: INLET NO. 3 FOR 81" SINGLE SLOPE BARRIER EACH	622 BARRIER, MISC.: CONCRETE BARRIER, 81" SSB FT	622 BARRIER, MISC.: CONCRETE BARRIER, 81" SSB, END ANCHORAGE, REINFORCED EACH	622 BARRIER, MISC.: CONCRETE BARRIER, 81" SSB, WINDOW SECTION EACH	622 BARRIER, MISC.: CONCRETE BARRIER, 81" SSB, END SECTION, AS PER PLAN EACH	622 BARRIER, MISC.: CONCRETE BARRIER, 81" SSB, END SECTION, 32" TO 81" EACH	659 SEEDING AND MULCHING SY
		81" SSB 1														111	86							
B-1	P.27 - P.31	100+00.00	121+85.66	12	1351	1	2186	226	74	11	1230	12	1.62					6	1784	12		1	1	3835
		81" SSB 4 / NOISE WALL 4																						
B-4	P.32 - P.35	400+00.00	418+64.00		1153	1	1864	193	63	9	1049		0.27			30		1	1666	7	1		1	1726
W-4	P.35 - P.39	4000+00.00	4017+28.00											20880	1560					2				12142
		NOISE WALL 7																						
W-7	P.40 - P.46	700+00.00	733+00.00											40533	2832									23521
TOTALS CARRIED TO GENERAL SUMMARY				12	2504	2	4050	419	137	20	2279	12	1.89	61413	4392	141	86	7	3450	19	1	1	2	41224

NOTE: SEEDING AND MULCHING QUANTITY CALCULATED USING CAD GENERATED AREAS. QUANTITY SHOWN ON THIS SHEET CARRIED TO P.7

SUBSUMMARY

MAH-680-9.30 NOISE ABATEMENT

MODEL: GS002 PAPERSIZE: 34x22 (in.) DATE: 2024-09-06 TIME: 5:32:07 PM USER: sean.buchanan
J:\136694_MAH-680-9.30\Worksets\110931\400-Engineering\Roadway\Sheets\110931_GS002.dgn

DESIGN AGENCY
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DESIGNER JMK
REVIEWER JDH 05-30-24
PROJECT ID 110931
SHEET P.22 TOTAL 183