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 THIS HEIGHT, FURTHER COORDINATION WITH THE FEDERAL AVIATION ADMINISTRATION (FAA), AND THE ODOT OFFICE OF AVIATION, WILL BE NECESSARY PRIOR TO ERECTING SUCH TEMPORARY STRUCTURES OR OPERATING SUCH EQUIPMENT ON THE PROJECT. THE CONTRACTOR WILL BE REQUIRED TO FILE A NEW FAA FORM 7460-1, ADVISING THE FAA THAT AERONAUTICAL STUDY NUMBERS 2021-AGL-16637, 2021-AGL-16638, 2021-AGL-16804, 2021-AGL-16805, 2021-AGL-16806, 2021-AGL-168107, 2021-AGL-16808, 2021-AGL-16809, 2021-AGL-16810, 2021-AGL-16811, 2021-AGL-16812, 2021-AGL-16813, 2021-AGL-16814, 2021-AGL-16815, 2021-AGL-16816, 2021-AGL-16817, 2021-AGL-16818, 2021-AGL-16819, 2021-AGL-16820, 2021-AGL-16821, 2021-AGL-16822, 2021-AGL-16823, 2021-AGL-16824, 2021-AGL-16825, 2021-AGL-16826, 2021-AGL-16827, 2021-AGL-16828, 2021-AGL-16829, ARE BEING RESUBMITTED AND THAT AN ALTERATION TO THE ORIGINAL SUBMISSION IS REQUESTED.

NOTIFY THE MANAGER OF DELAWARE MUNI - JIM MOORE FIELD, (740)203-1870, AT LEAST 3 DAYS PRIOR TO BEGINNING CONSTRUCTION AND AGAIN WHEN CONSTRUCTION IS COMPLETE.

NOTIFY THE ODOT OFFICE OF AVIATION WHEN RESUBMITTING FAA FORM 7460-1. NO TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT SHALL EXCEED THE PERMISSIBLE HEIGHT, UNTIL A COPY OF THE FAA APPROVAL AND THE ODOT OFFICE OF AVIATION PERMIT HAS BEEN FURNISHED TO THE PROJECT ENGINEER.

FAA APPROVAL MAY TAKE UP TO 45 DAYS. ALL SUBMISSIONS SHALL BE DIRECTED TO THESE OFFICES:

FEDERAL AVIATION ADMINISTRATION
SOUTHWEST REGIONAL OFFICE
OBSTRUCTION EVALUATION GROUP
10101 HILLWOOD PARKWAY
FORT WORTH, TX 76177
FAX: (817) 222-5920
HTTP://CEAAA.FAA.GOV

OHIO DEPARTMENT OF TRANSPORTATION
OFFICE OF AVIATION
2829 WEST DUBLIN-GRANVILLE ROAD
COLUMBUS, OHIO 43235

DRIVE PIPE LOCATION:

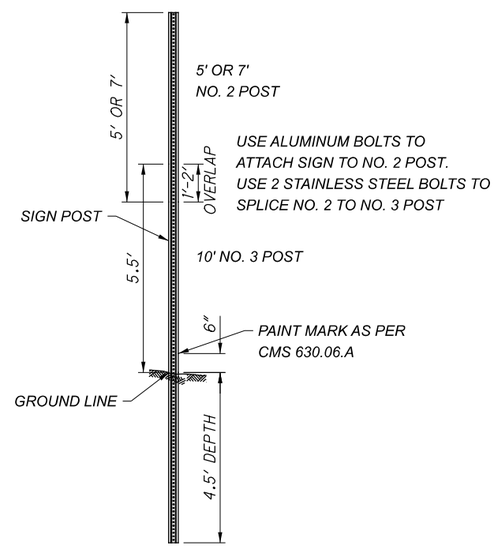
SEE TABLE BELOW FOR DRIVE PIPE LOCATIONS AND INVERT ELEVATIONS.

CONDUIT	INLET				OUTLET				PROPOSED CONDUIT**		
REF. NO.	STATION	OFFSET	SIDE	INVERT*	STATION	OFFSET	SIDE	INVERT*	SIZE	LENGTH	SLOPE
DP-1	125+37	29.89	LT	892.72	125+04	29.51	LT	892.77	12"	32	0.16%
DP-2	133+50	27.41	RT	902.12	133+00	27.77	RT	901.42	24"	50	1.40%
DP-3	134+70	29.64	LT	905.08	134+45	31.22	LT	904.58	12"	25	2.00%
DP-4	137+40	27.85	RT	905.38	136+90	27.32	RT	905.23	12"	50	0.30%
DP-5	150+70	35.30	LT	919.03	151+30	39.20	LT	917.61	12"	60	2.37%
DP-6	156+50	38.66	RT	920.89	156+20	38.85	RT	920.80	18"	29	0.31%
DP-7	158+29	32.71	RT	925.00	157+99	33.19	RT	924.67	12"	30	1.10%
DP-8	187+20	30.00	RT	939.40	186+90	30.00	RT	939.18	12"	30	0.73%
DP-9	195+37	30.58	RT	941.42	195+00	30.50	RT	941.09	12"	37	0.89%
DP-10	203+84	29.00	LT	944.00	204+19	29.00	LT	943.49	12"	35	1.46%
DP-11	204+65	29.00	LT	943.77	205+30	27.00	LT	943.51	12"	65	0.40%
DP-12	206+92	30.53	RT	943.40	207+16	30.93	RT	943.09	12"	24	1.29%
DP-13	213+52	28.67	LT	945.78	213+10	27.07	LT	945.58	12"	42	0.48%
DP-14	233+43	36.03	RT	942.11	233+62	36.72	RT	942.03	12"	19	0.42%

* INVERTS ARE APPROXIMATE. MATCH EXISTING DITCH ELEVATION.
** QUANTITIES CARRIED TO DRAINAGE SUBSUMMARY

ITEM 630 GROUND MOUNTED SUPPORT, NO. 2 POST, AS PER PLAN
ITEM 630 GROUND MOUNTED SUPPORT, NO. 3 POST, AS PER PLAN

IN ADDITION TO MEETING THE REQUIREMENTS IN TC-41.20, DRIVEN POSTS SHALL CONFORM WITH THE DETAIL BELOW.



TYPICAL NO. 2 & NO. 3 U - CHANNEL SPLICE
WITH 10' DRIVEN SECTION INSTALLATION

ITEM 606 - ANCHOR ASSEMBLY, MGS TYPE E

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING ANY OF THE GUARDRAIL END TERMINALS FOR TYPE MGS GUARDRAIL AS LISTED ON ROADWAY ENGINEERING'S WEB PAGE UNDER ROADSIDE SAFETY DEVICES FOR APPROVED GUARDRAIL END TREATMENTS. INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS, IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

THE FACE OF THE TYPE E IMPACT HEAD SHALL BE COVERED WITH A SHEET OF TYPE G REFLECTIVE SHEETING, PER CMS 730.19.

REFER TO THE MANUFACTURER'S INSTRUCTIONS REGARDING THE INSTALLATION OF, AND THE GRADING AROUND THE FOUNDATION TUBES AND GROUND STRUT. THE TOP OF ANY FOUNDATION TUBE SHOULD BE LESS THAN 4 INCHES ABOVE THE GROUND. THE PLACEMENT OF THE FOUNDATION TUBES SHOULD BE AN APPROPRIATE DEPTH BELOW THE LEVEL LINE IN ORDER TO MAINTAIN THE FINISHED GUARDRAIL HEIGHT OF 31 INCHES FROM THE EDGE OF THE SHOULDER.

ON-SITE GRADING IS REQUIRED IF THE TOP OF THE FOUNDATION TUBES OR TOP OF THE GROUND STRUT DOES PROJECT MORE THAN 4 INCHES ABOVE THE GROUND LINE.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID FOR ITEM 606, ANCHOR ASSEMBLY, MGS TYPE E, EACH, AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO CONSTRUCT A COMPLETE AND FUNCTIONAL ANCHOR ASSEMBLY SYSTEM, INCLUDING ALL RELATED TRANSITIONS, REFLECTIVE SHEETING, HARDWARE, GRADING, EMBANKMENT AND EXCAVATION NOT SEPARATELY SPECIFIED, AS REQUIRED BY THE MANUFACTURER.

621 RAISED PAVEMENT MARKER REMOVED

EXISTING RAISED PAVEMENT MARKERS WITHIN THE AREA OF PAVEMENT PLANING SHALL BE REMOVED IN ADVANCE OF PAVEMENT PLANING IN ACCORDANCE WITH ITEM 621 RAISED PAVEMENT MARKER REMOVED AND AS DIRECTED BY THE ENGINEER.

THE FOLLOWING IS AN ESTIMATED QUANTITY TO BE USED AS DIRECTED BY THE ENGINEER FOR THE ABOVE WORK:

ITEM 621 340 EACH RAISED PAVEMENT MARKER REMOVED

GENERAL NOTES

DEL-42-2.28

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DESIGN AGENCY
JMT
2800 Corporate Exchange Drive, Suite 250,
Columbus, OH 43231

DESIGNER
VLC
REVIEWER
RJM 09/27/21
PROJECT ID
109074

SHEET NUM.												PART.				ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
8	9	13	27	28	29	31	32	33	34	35	OFFICE CALCS	01/NHS/PV	02/NHS/PV	03/S>2/PV	04/NHS/CV						
																				DRAINAGE	
						50									50	602	20000	50	CY	CONCRETE MASONRY	
							4,713						4,713			605	11110	4,713	FT	6" SHALLOW PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC	
	60											60				605	11100	60	FT	6" SHALLOW PIPE UNDERDRAINS (707.31 TYPE CP OR 707.41)	
							2,333						2,333			605	13410	2,333	FT	6" UNCLASSIFIED PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC	
	4,900												4,900			605	31100	4,900	FT	AGGREGATE DRAINS	
	50												50			611	00400	50	FT	4" CONDUIT, TYPE E	
	50												50			611	00406	50	FT	4" CONDUIT, TYPE F	
						42							42			611	00900	42	FT	6" CONDUIT, TYPE B, 706.08	
	10						201						211			611	00510	211	FT	6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS	
	50												50			611	01400	50	FT	6" CONDUIT, TYPE E	
	50												50			611	01500	50	FT	6" CONDUIT, TYPE F	
						63									63	611	04400	63	FT	12" CONDUIT, TYPE B	
						16									16	611	04600	16	FT	12" CONDUIT, TYPE C	
						449									449	611	04900	449	FT	12" CONDUIT, TYPE D	
						19									19	611	06100	19	FT	15" CONDUIT, TYPE C	
						29									29	611	07900	29	FT	18" CONDUIT, TYPE D	
						60									60	611	10200	60	FT	24" CONDUIT, TYPE A, 706.02, 707.33 W/WELDED BELL INLET OR 707.65	
						50									50	611	10900	50	FT	24" CONDUIT, TYPE D	
						79									79	611	26000	79	FT	72" CONDUIT, TYPE A, 706.02 OR 78" CONDUIT, TYPE A, 707.01 OR 707.02 (ALUMINIZED)(0.109) OR 707.04 (0.109)	
						147									147	611	32000	147	FT	108" CONDUIT, TYPE A, 706.02 OR 120" CONDUIT, TYPE A, 707.01 OR 707.02 (ALUMINIZED) (0.109) OR 704.04 (0.109)	
						123									123	611	52200	123	FT	14" X 23" CONDUIT, TYPE A, 706.04	
						64									64	611	52900	64	FT	34" X 53" CONDUIT, TYPE A, 706.04	
							10						10			611	99710	10	EACH	PRECAST REINFORCED CONCRETE OUTLET	
						1							1			611	98390	1	EACH	CATCH BASIN, NO. 7	
						1							1			611	98470	1	EACH	CATCH BASIN, NO. 2-2B	
						1,666							1,666			670	00500	1,666	SY	SLOPE EROSION PROTECTION	
																				PAVEMENT	
	2,500											2,500				251	01041	2,500	SY	PARTIAL DEPTH PAVEMENT REPAIR (ASPHALT CONCRETE BASE), AS PER PLAN	9
			11,547	8,928								20,475				252	01500	20,475	FT	FULL DEPTH PAVEMENT SAWING	
									41,408					41,408		254	01000	41,408	SY	PAVEMENT PLANING, ASPHALT CONCRETE 1-1/2"	
								13,612		546		14,158				254	01000	14,158	SY	PAVEMENT PLANING, ASPHALT CONCRETE, VARIABLE DEPTH - 1-1/2" AVG.	
											130	130				255	10010	130	SY	FULL DEPTH PAVEMENT REMOVAL AND RIGID REPLACEMENT, CLASS QC1	
35		200			365			5,266		60		4,787	1,139			301	46000	5,926	CY	ASPHALT CONCRETE BASE, PG64-22	
		200			446					60		706				304	20000	706	CY	AGGREGATE BASE	
								5,640				4,314	1,326			304	20001	5,640	CY	AGGREGATE BASE, AS PER PLAN	9
											130	130				305	14010	130	SY	10" CONCRETE BASE, CLASS QC IP	
		400			271			5,673	3,520	121	18	5,931	759	3,313		407	20000	10,003	GAL	NON-TRACKING TACK COAT	
		300			68			1,500	1,725	34		1,715	187	1,725		442	10000	3,627	CY	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446)	
								95		4		99				442	20200	99	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (448)	
	62											62				SPECIAL	45130000	62	FT	PRESSURE RELIEF JOINT, TYPE A	9
										233			63	170		617	10100	233	CY	COMPACTED AGGREGATE	
										0.47			0.13	0.34		617	25000	0.47	MGAL	WATER	
								1,750		40		1,790				861	11100	1,790	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, 12.5 MM, TYPE A (446) (T=1.75")	

GENERAL SUMMARY

DEL-42-2.28

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DESIGN AGENCY
JMT
2800 Corporate Exchange Drive, Suite 250, Columbus, OH 43231

DESIGNER
JAG

REVIEWER
RJM 09/27/21

PROJECT ID
109074

SHEET 25 TOTAL 153

SHEET NUM.										PART.				ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
11	12	13	17	36	37	38	39	10	OFFICE CALCS	01/NHS/PV	02/NHS/PV	03/S>2/PV	04/NHS/CV						
																		TRAFFIC CONTROL	
				1.7	2.29						3.99			618	41000	3.99	MILE	RUMBLE STRIPES, EDGE LINE (ASPHALT CONCRETE)	
				0.86	1.11						1.97			618	43000	1.97	MILE	RUMBLE STRIPES, CENTER LINE (ASPHALT CONCRETE)	
				124	229	178				195		136		621	00100	331	EACH	RPM	
								340		280		60		621	54000	340	EACH	RAISED PAVEMENT MARKER REMOVED	10
							159				159			630	02101	159	FT	GROUND MOUNTED SUPPORT, NO. 2 POST, AS PER PLAN	10
							27				27			630	03101	27	FT	GROUND MOUNTED SUPPORT, NO. 3 POST, AS PER PLAN	10
							27				27			630	04100	27	FT	GROUND MOUNTED SUPPORT, NO. 4 POST	
							103				103			630	80100	103	SF	SIGN, FLAT SHEET	
							18				18			630	84900	18	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	
							18				18			630	86002	18	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	
		2								2				642	00300	2	MILE	CENTER LINE, TYPE 1	
				1.7	3.78	2.12				4.83		2.77		644	00104	7.6	MILE	EDGE LINE, 6"	
				0.86	2.13	1.18				1.86		2.31		644	00300	4.17	MILE	CENTER LINE	
						1,815						1,815		644	00400	1,815	FT	CHANNELIZING LINE, 8"	
				19	13	119				16		135		644	00500	151	FT	STOP LINE	
					337	277						614		644	00700	614	FT	TRANSVERSE/DIAGONAL LINE	
						14						14		644	01300	14	EACH	LANE ARROW	
				0.68		0.14				0.82				646	10010	0.82	MILE	EDGE LINE, 6"	
				0.51		0.4				0.91				646	10200	0.91	MILE	CENTER LINE	
				430		225				655				646	10300	655	FT	CHANNELIZING LINE, 8"	
				74						74				646	10400	74	FT	STOP LINE	
				269		193				462				646	10600	462	FT	TRANSVERSE/DIAGONAL LINE	
					6	2				8				646	20300	8	EACH	LANE ARROW	
																		MAINTENANCE OF TRAFFIC	
225										225				304	20000	225	CY	AGGREGATE BASE	
50										50				410	11000	50	CY	TRAFFIC COMPACTED SURFACE, TYPE B	11
	60									60				614	11110	60	HOUR	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	
		990								990				614	11630	990	FT	INCREASED BARRIER DELINEATION	
			12						8	20				614	12380	20	EACH	WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (UNIDIRECTIONAL)	13
		LS								LS				614	12420	LS		DETOUR SIGNING	
20										20				614	12600	20	EACH	REPLACEMENT DRUM	
		200								200				614	13000	200	CY	ASPHALT CONCRETE FOR MAINTAINING TRAFFIC	
		48								48				614	13310	48	EACH	BARRIER REFLECTOR, TYPE I(ONE-WAY) OR BI-DIRECTIONAL	
		42								42				614	13350	42	EACH	OBJECT MARKER, ONE WAY	
	12									12				614	18601	12	SNMT	PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN	12
		10.67	2.1							5.31		7.46		614	22010	12.77	MILE	WORK ZONE EDGE LINE, CLASS I, 6"	13
		3.73										3.73		614	21000	3.73	MILE	WORK ZONE CENTER LINE, CLASS I	13
			618							618				615	25000	618	SY	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B	
5	28									33				616	10000	33	MGAL	WATER	
			3,900							3,900				622	41100	3,900	FT	PORTABLE BARRIER, UNANCHORED	
			360							360				622	41110	360	FT	PORTABLE BARRIER, ANCHORED	
		0.2								0.2				644	30030	0.2	MILE	REMOVAL OF PAVEMENT MARKING	13
		3								3				646	50000	3	EACH	REMOVAL OF PAVEMENT MARKING	13
		0.63								0.63				646	50300	0.63	MILE	REMOVAL OF PAVEMENT MARKING	13
																		INCIDENTALS	
									LS	LS	LS	LS	LS	614	11000	LS		MAINTAINING TRAFFIC	
									7	7				619	16010	7	MNTH	FIELD OFFICE, TYPE B	
									LS	LS	LS			623	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING	
									LS	LS	LS			624	10000	LS		MOBILIZATION	

GENERAL SUMMARY

DESIGN AGENCY

JMT

2800 Corporate Exchange Drive, Suite 250, Columbus, OH 43231

DESIGNER JAG

REVIEWER RJM 09/27/21

PROJECT ID 109074

SHEET 26 TOTAL 153

DEL-42-2.28

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