REVIEW OF DRAINAGE FACILITIES

BEFORE ANY WORK IS STARTED ON THE PROJECT AND AGAIN BEFORE FINAL ACCEPTANCE BY THE STATE, REPRESENTATIVES OF THE STATE AND THE CONTRACTOR, ALONG WITH LOCAL REPRESENTATIVES, SHALL MAKE AN INSPECTION OF ALL EXISTING SEWERS WHICH ARE TO REMAIN IN SERVICE AND WHICH MAY BE AFFECTED BY THE WORK. THE CONDITION OF THE EXISTING CONDUITS AND THEIR APPURTENANCE SHALL BE DETERMINED FROM FIELD OBSERVATIONS. RECORDS OF THE INSPECTION SHALL BE KEPT IN WRITING BY THE STATE.

ALL NEW CONDUITS, INLETS, CATCH BASINS, AND MANHOLES CONSTRUCTED AS A PART OF THE PROJECT SHALL BE FREE OF ALL FOREIGN MATTER AND IN A CLEAN CONDITION BEFORE THE PROJECT WILL BE ACCEPTED BY THE STATE.

ALL EXISTING SEWERS INSPECTED INITIALLY BY THE ABOVE MENTIONED PARTIES SHALL BE MAINTAINED AND LEFT IN A CONDITION REASONABLY COMPARABLE TO THAT DETERMINED BY THE ORIGINAL INSPECTION. ANY CHANGE IN THE CONDITION RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE CORRECTED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER.

PAYMENT FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 611 CONDUIT ITEMS.

POST CONSTRUCTION STORM WATER TREATMENT

THIS PLAN UTILIZES STRUCTURAL BEST MANAGEMENT PRACTICES (BMP'S) FOR POST CONSTRUCTION STORM WATER TREATMENT.

ENVIRONMENTAL NOTES

THE PROJECT IS LOCATED WITHIN THE KNOWN HABITAT RANGES OF THE FEDERALLY LISTED AND PROTECTED INDIANA BAT AND NORTHERN LONG-EARED BAT. NO TREES SHALL BE REMOVED UNDER THIS PROJECT FROM APRIL 1 THROUGH SEPTEMBER 30. ALL NECESSARY TREE REMOVAL SHALL OCCUR FROM OCTOBER 1 THROUGH MARCH 31. THIS REQUIREMENT IS NECESSARY TO AVOID AND MINIMIZE IMPACTS TO THESE SPECIES AS REQUIRED BY THE ENDANGERED SPECIES ACT. FOR THE PURPOSES OF THIS NOTE, A TREE IS DEFINED AS A LIVE, DYING, OR DEAD WOODY PLANT, WITH A TRUNK THREE INCHES OR GREATER IN DIAMETER AT A HEIGHT OF 4.5 FEET ABOVE THE GROUND SURFACE, AND A MINIMUM HEIGHT OF 13 FEET.

THE PROJECT REQUIRES A WATERWAY PERMIT FOR WORK WITHIN WETLANDS AND STREAMS WHICH IS ATTACHED TO THE PLANS AS SPECIAL PROVISIONS AND SHALL BE FOLLOWED THROUGHOUT CONSTRUCTION.

AQUATIC RESOURCE DEMARCATION:

ALL AQUATIC RESOURCES INDICATED IN THE PLANS SHALL BE DEMARCATED IN THE FIELD AS PER SS 832 PRIOR TO SITE DISTURBANCE. SPECIFICALLY, WETLANDS 13A, 13D, 27, 28 AND 30 WILL HAVE SOME PERMANENT IMPACTS. THE REMAINDER OF THESE AQUATIC RESOURCES MUST BE DEMARCATED WITH A CONSTRUCTION FENCE AS TO ENSURE AVOIDANCE. THE FENCE SHALL REMAIN IN PLACE AND BE MAINTAINED THROUGHOUT THE CONSTRUCTION PROCESS. FOLLOWING THE COMPLETION OF THE PROJECT, THE FENCE AND POST SHALL BE REMOVED.

ITEM 607 - FENCE, MISC.: CONSTRUCTION FENCE - 315 FT HAS BEEN CARRIED TO THE GENERAL SUMMARY. FENCE SHALL BE 4 HIGH PLASTIC FENCE WITH 6 LONG POST.

ITEM 609 - 8" CONCRETE TRAFFIC ISLAND, AS PER PLAN, TRUCK APRON

TRUCK APRONS ARE TO BE CONSTRUCTED OF CONCRETE IN ACCORDANCE WITH ODOT SECTION 609, THE PROPOSED TYPICAL SECTIONS, AND THE FOLLOWING ADDITIONAL REQUIREMENTS:

CONCRETE IS TO BE BROOM FINISHED ACCORDING TO THE DETAIL BELOW.

CONCRETE IS TO BE COLORED WITH SOLOMON CONCRETE COLORING PRODUCTS 300 LIGHT BROWN (4½LBS/100 LBS OF CEMENT) OR APPROVED EQUAL AS APPROVED BY THE ENGINEER.

THIS ITEM WILL INCLUDE THE INSTALLATION, ALL MATERIALS, LABOR, AND SAMPLES AS NOTED ABOVE REQUIRED FOR A COMPLETE AND APPROVED CONCRETE PAVEMENT ALL TO THE SATISFACTION OF THE ENGINEER TO BE PAID AT THE UNIT PRICE BID FOR:

ITEM 609 - 8" CONCRETE TRAFFIC ISLAND, AS PER PLAN, TRUCK APRON

ITEM 609 - 6" CONCRETE TRAFFIC ISLAND, AS PER PLAN, SPLITTER ISLAND

SPLITTER ISLANDS ARE TO BE CONSTRUCTED OF CONCRETE IN ACCORDANCE WITH ODOT SECTION 609, THE PROPOSED TYPICAL SECTIONS AND THE FOLLOWING ADDITIONAL REQUIREMENTS:

CONCRETE IS TO BE COLORED WITH SOLOMON CONCRETE COLORING PRODUCTS 300 LIGHT BROWN (4 ½ LBS/100 LBS OF CEMENT) OR APPROVED EQUAL AS APPROVED BY THE ENGINEER. THE SPLITTER ISLANDS WILL MATCH THE COLORATION AND TEXTURE OF THE APPROVED TRUCK APRONS.

THIS ITEM WILL INCLUDE THE INSTALLATION, ALL MATERIALS, AND LABOR AS NOTED ABOVE REQUIRED FOR A COMPLETE AND APPROVED CONCRETE ISLAND TO THE SATISFACTION OF THE ENGINEER TO BE PAID AT THE UNIT PRICE BID FOR:

ITEM 609 - 6" CONCRETE TRAFFIC ISLAND, AS PER PLAN, SPLITTER ISLAND

THE CONTRACTOR WILL BE REQUIRED TO PROVIDE A 10' X 10' MOCKUP SAMPLE OF THE ABOVE WORK FOR ENGINEER APPROVAL PRIOR TO ACCEPTANCE AND PLACEMENT. THE ENGINEER RESERVES THE RIGHT TO CHANGE THE COLOR AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR UP TO 3 COLOR OPTIONS AND UP TO THREE (3) 10' X 10' MOCKUPS.

CONTRACTOR TO PROVIDE TEST SLABS INCIDENTAL TO:

ITEM 609 - 6" CONCRETE TRAFFIC ISLAND, AS PER PLAN, SPLITTER ISLAND

ITEM 609 - 8" CONCRETE TRAFFIC ISLAND, AS PER PLAN, TRUCK APRON

ITEM 204 - SUBGRADE COMPACTION AND PROOF ROLLING

CONSTRUCT THE SUBGRADE AS FOLLOWS AND IN THE FOLLOWING SEQUENCE:

1. SHAPE THE SUBGRADE TO WITHIN 0.2 FEET OF THE PLAN SUBGRADE ELEVATION.

2. EXCAVATE AND REPLACE UNSUITABLE SUBGRADE BEFORE PROOF ROLLING. THE EXCAVATION LIMITS ARE SHOWN AND LABELED ON SHEET 42 AS UNSUITABLE SUBGRADE.
   UNSUITABLE SUBGRADE INCLUDES UNSUITABLE SOIL (A-4B, A-2-5, A-5, A-7-5, AND SOIL WITH A LIQUID LIMIT GREATER THAN 65) AND ANY COAL, SHALE, OR ROCK WHICH NEEDS TO BE REMOVED ACCORDING TO 204.05.

   IF THERE IS UNSUITABLE SUBGRADE IN A SHALLOW FILL LOCATION, EXCAVATE AND REPLACE THE UNSUITABLE SUBGRADE BEFORE CONSTRUCTING THE SHALLOW FILL AND SHAPING THE SUBGRADE.

3. COMPACT THE SUBGRADE ACCORDING TO 204.03.

4. APPROXIMATE LIMITS FOR EXCAVATION OF UNSTABLE SUBGRADE ARE SHOWN AND LABELED ON SHEET 42 AS UNSTABLE SUBGRADE.
   THE ENGINEER WILL IDENTIFY THE ACTUAL LIMITS OF EXCAVATION FOR UNSTABLE SUBGRADE BASED ON THE PROOF ROLLING RESULTS AND VISUAL OBSERVATIONS.

   PROOF ROLL THE COMPACTED SUBGRADE ACCORDING TO 204.06.

5. EXCAVATE UNSTABLE SUBGRADE AS DIRECTED BY THE ENGINEER AND STABILIZE BY REPLACING WITH THE SPECIFIED MATERIALS ACCORDING TO 204.07. EXCAVATIONS WILL EXTEND 18 INCHES BEYOND THE EDGE OF THE SURFACE OF THE PAVEMENT, PAVED SHOULDERS, OR PAVED MEDIANS.

6. PROOF ROLL THE STABILIZED AREAS ACCORDING TO 204.06 TO VERIFY STABILITY.

7. FINE GRADE THE SUBGRADE TO THE SPECIFIED GRADE.

THE QUANTITIES FOR EXCAVATING THE UNSUITABLE SUBGRADE AND UNSTABLE SUBGRADE ARE BOTH PAID UNDER ITEM 204 EXCAVATION OF SUBGRADE.

THE FOLLOWING QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY:

ITEM 204 - EXCAVATION OF SUBGRADE 765 CY

ITEM 204 - GRANULAR MATERIAL, TYPE B 765 CY

ITEM 204 - PROOF ROLLING

THE FOLLOWING QUANTITY IS PROVIDED IN THE GENERAL SUMMARY TO ADDRESS LOCATIONS REQUIRING PROOF ROLLING.

ITEM 204 - PROOF ROLLING 8 HOUR.

ITEM 204 - GRANULAR MATERIAL, TYPE B, AS PER PLAN

UPON COMPLETION OF PROOF ROLLING AND AT THE DIRECTION OF THE ENGINEER THE CONTRACTOR SHALL REMOVE 12 INCHES OF UNSUITABLE SOIL AND REPLACE WITH 12" OF ITEM 204 - GRANULAR MATERIAL, TYPE B.

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

ITEM 204 - EXCAVATION OF SUBGRADE, AS PER PLAN 1150 CY
ITEM 204 - GRANULAR MATERIAL, TYPE B, AS PER PLAN 1150 CY

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 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 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 PERMISSIBLE 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 TRAFFIC AIRSPACE BRANCH ASW-520
2601 MEACHAN BLVD.
FORT WORTH, TX 76137-4298

OHIO DEPARTMENT OF TRANSPORTATION
OFFICE OF AVIATION
2829 WEST DUBLIN-GRANVILLE ROAD
COLUMBUS, OHIO 43235-2786
614-387-2358

CALCULATED ADC CHECKED ALZ

GENERAL NOTES

LUC-20A-3.47 / 4.47

SHEET NUM.											PART.			ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
10	11	12	16	17	18	19	56	65	72	79	01/NHS/PV	02/S>2/PV	03/S>2/BR						
																		ROADWAY	
											LS	LS		201	11000	LS		CLEARING AND GRUBBING	
				7							2	5		202	20010	7	EACH	HEADWALL REMOVED	
						10,499					6,411	4,088		202	23000	10,499	SY	PAVEMENT REMOVED	
				110							82	28		202	35100	110	FT	PIPE REMOVED, 24" AND UNDER	
				130								130		202	35200	130	FT	PIPE REMOVED, OVER 24"	
				1							1			202	58100	1	EACH	CATCH BASIN REMOVED	
			443								443			202	75000	443	FT	FENCE REMOVED	
				1,787							1,112	675		203	10000	1,787	CY	EXCAVATION	
				10,486							6,020	4,466		203	20000	10,486	CY	EMBANKMENT	
						16,567					10,530	6,037		204	10000	16,567	SY	SUBGRADE COMPACTION	
	765											765		204	13000	765	CY	EXCAVATION OF SUBGRADE	
	1,150										1,150			204	13001	1,150	CY	EXCAVATION OF SUBGRADE, AS PER PLAN	11
	765											765		204	30010	765	CY	GRANULAR MATERIAL, TYPE B	
	1,150										1,150			204	30011	1,150	CY	GRANULAR MATERIAL, TYPE B, AS PER PLAN	11
	8										5	3		204	45000	8	HOUR	PROOF ROLLING	
			112.5									112.5		606	15050	112.5	FT	GUARDRAIL, TYPE MGS	
			1									1		606	26150	1	EACH	ANCHOR ASSEMBLY, MGS TYPE E	
			1									1		606	26550	1	EACH	ANCHOR ASSEMBLY, MGS TYPE T	
	315										30	285		607	98000	315	FT	FENCE, MISC.: CONSTRUCTION FENCE	11
										1		1		623	38500	1	EACH	MONUMENT ASSEMBLY	
																		EROSION CONTROL	
					32						18	14		601	21050	32	SY	**TIED CONCRETE BLOCK MAT, TYPE 1**	
				58							18	40		601	32204	58	CY	ROCK CHANNEL PROTECTION, TYPE C WITH GEOTEXTILE FABRIC	
		23									14	9		616	10000	23	MGAL	WATER	
1,273											782	491		659	00300	1,273	CY	TOPSOIL	
11,466											7,066	4,400		659	10000	11,466	SY	SEEDING AND MULCHING	
1.55											0.95	0.6		659	20000	1.55	TON	COMMERCIAL FERTILIZER	
62											38	24		659	35000	62	MGAL	WATER	
											LS	LS		832	15000	LS		STORM WATER POLLUTION PREVENTION PLAN	
											22,000	22,000		832	30000	44,000	EACH	EROSION CONTROL	
																		DRAINAGE	
				2.4							1.7	0.7		602	20000	2.4	CY	**CONCRETE MASONRY**	
					3,123						2,441	682		605	13300	3,123	FT	6" UNCLASSIFIED PIPE UNDERDRAINS	
					2,453						871	1,582		605	14000	2,453	FT	6" BASE PIPE UNDERDRAINS	
					512						307	205		611	01500	512	FT	6" CONDUIT, TYPE F	
				313							259	54		611	04400	313	FT	12" CONDUIT, TYPE B	
				64							64			611	04900	64	FT	12" CONDUIT, TYPE D	
				71							71			611	05700	71	FT	15" CONDUIT, TYPE A	
				67								67		611	05900	67	FT	15" CONDUIT, TYPE B	
				1							1			611	98180	1	EACH	CATCH BASIN, NO. 3A	
				2							1	1		611	99574	2	EACH	MANHOLE, NO. 3	
					18						10	8		611	99710	18	EACH	PRECAST REINFORCED CONCRETE OUTLET	
																		PAVEMENT	
						2,882					1,738	1,144		301	46000	2,882	CY	**ASPHALT CONCRETE BASE, PG64-22**	
						2,497					1,582	915		304	20000	2,497	CY	AGGREGATE BASE	
						1,254					756	498		407	10000	1,254	GAL	TACK COAT	
						477					288	189		442	10001	477	CY	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446), AS PER PLAN, PG76-22M	10
						554					334	220		442	10101	554	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (446), AS PER PLAN, PG76-22M	10
						721					721			452	14110	721	SY	11" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC1	
			2,796								1,542	1,254		609	12000	2,796	FT	COMBINATION CURB AND GUTTER, TYPE 2	
			427								245	182		609	14000	427	FT	CURB, TYPE 2-A	
			787								358	429		609	18000	787	FT	COMBINATION CURB AND GUTTER, TYPE 3	
			83								83			609	20000	83	FT	CURB, TYPE 3-A	
			1,666								1,155	511		609	26000	1,666	FT	CURB, TYPE 6	
			1,055								863	192		609	54001	1,055	SY	6" CONCRETE TRAFFIC ISLAND, AS PER PLAN, SPLITTER ISLAND	11
			953								506	447		609	57001	953	SY	8" CONCRETE TRAFFIC ISLAND, AS PER PLAN, TRUCK APRON	11

CALCULATED ALZ
CHECKED RJM

GENERAL SUMMARY (1 OF 2)

LUC-20A-3.47 / 4.47

EARTHWORK

	STATION FROM	STATION TO	203 EXCAVATION	203 EMBANKMENT	659 SEEDING AND MULCHING	659 TOPSOIL	659 COMMERCIAL FERTILIZER	659 WATER
			CU YD	CU YD	SQ YD	CU YD	TON	MGAL
US 20A AND SR 295			985	6020	5938	659	0.80	32.07
AIR CARGO			127		1105	123	0.15	5.97
US 20A AND WHITEHOUSE-SPENCER			675	4466	4423	491	0.60	23.88
SR 295 & AIR CARGO (01/NHS/PV)			1112	6020	7043	782	0.95	38
WHITEHOUSE-SPENCER (02/S>2/PV)			675	4466	4423	491	0.60	24
TOTALS CARRIED TO GENERAL NOTES					**11466**	**1273**	**1.55**	**62**
TOTALS CARRIED TO GENERAL SUMMARY			**1787**	**10486**				

DRAINAGE

SHEET NUMBER	REFFERENCE NUMBER	STATION FROM	STATION TO	SIDE	202 CATCH BASIN REMOVED	202 PIPE REMOVED, 24" AND UNDER	202 PIPE REMOVED, OVER 24"	202 HEADWALL REMOVED	602 CONCRETE MASONRY	611 12" CONDUIT, TYPE B	611 15" CONDUIT, TYPE A	611 15" CONDUIT, TYPE B	611 12" CONDUIT, TYPE D	611 MANHOLE, NO. 3	611 CATCH BASIN, NO. 3A	601 ROCK CHANNEL PROTECTION, TYPE C WITH FILTER
					EACH	FT	FT	EACH	CU YD	FT	FT	FT	FT	EACH	EACH	CU YD
23	E-1	184+48.69	184+52.52	LT												3.16
23	E-2	184+55.54	184+59.38	RT												4.67
24	D-1	510+63.08	512+12.75	RT					0.20	150						
24	D-2	187+21.23	187+92.69	LT						91				1		
24	D-3	187+92.69	188+06.90	LT					0.20	18					1	
24	D-4	187+51.15	187+55.74	LT		6										
24	D-5	187+31.56	187+31.56	RT	1											
24	E-1	188+90.18	188+94.08	RT												2.86
25	D-1	191+93.25	191+93.25	LT/RT					0.50		70.5					
25	D-2	191+92.38	191+94.57	LT/RT		56		2								
25	E-1	190+17.61	190+21.49	LT												4.27
26	D-1	510+57.17	510+76.48	RT		19										
26	E-1	510+04.83	510+08.72	LT												1.30
26	E-2	510+56.22	510+60.22	RT												1.72
27	D-1	514+80.01	515+15.14	LT				11	0.40				35			
27	D-2	515+18.24	515+46.52	RT					0.40				28			
42	D-1	239+57.41	240+23.20	LT			65	2								
42	D-2	239+57.80	240+22.76	LT			65	2								
42	D-3	240+72.79	240+73.18	LT					0.25			16				
42	D-4	239+09.39	239+60.91	LT					0.25			52		1		
42	D-5	29+08.07	29+62.29	LT					0.20	54						
42	D-6	239+51.66	239+60.91	RT		10		1								
42	D-7	29+52.31	29+35.21	LT		18										
42	D-8	237+11.39	237+26.26	LT												7.20
42	D-9	241+58.78	241+64.39	LT												1.24
42	D-10	241+58.66	241+65.23	LT												1.27
42	E-1	237+14.73	237+18.56	LT												2.95
42	E-2	237+21.43	237+25.27	RT												7.16
42	E-3	28+95.07	28+98.99	LT												2.59
42	E-4	28+98.75	29+02.71	RT												2.24
42	E-5	32+50.34	32+54.22	LT												4.03
42	E-6	32+51.36	32+55.28	RT												1.84
43	E-1	242+07.46	242+11.32	RT												6.24
43	E-2	242+69.76	242+73.67	LT												2.81
SR 295 & AIR CARGO (01/NHS/PV)					1	82	0	2	1.70	259	71	0	64	1	1	18
WHITEHOUSE-SPENCER (02/S>2/PV)					0	28	130	5	0.70	54	0	67	0	1	0	40
TOTALS CARRIED TO GENERAL SUMMARY					**1**	**110**	**130**	**7**	**2.40**	**313**	**71**	**67**	**64**	**2**	**1**	**58**

CALCULATED ADC
CHECKED ALZ

SUBSUMMARY

LUC-20A-3.47 / 4.47

PAVEMENT																	
	AREA BY CAD				202	204	301	304	304	305	407	442	442	442	452	609	609
LOCATION	SURFACE & INTERMEDIATE	9" BASE 1ST LIFT	9" BASE 2ND LIFT	AGGREGATE BASE	PAVEMENT REMOVED	SUBGRADE COMPACTION	9" ASPHALT CONCRETE BASE, PG64-22	3" AGGREGATE BASE	6" AGGREGATE BASE	8" AGGREGATE BASE	TACK COAT (0.055 gal/sqyd)	1 - 1/2" ASPHALT CONC SURFACE COURSE, TYPE 1, PG70-22	2" ASPHALT CONC SURFACE COURSE, TYPE 1, PG70-22	1-3/4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, PG64-22	11" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC1	6" CONCRETE TRAFFIC ISLAND	8" CONCRETE TRAFFIC ISLAND
	SF				SY	SY	CY	CY	CY	CY	GAL	CY	CY	CY	SY	SY	SY
US20A and SR 295	61836	62918	62244	70186	5,637.11	7,798.44	1,738.08		1,299.74		755.78	286.28		333.99			
CENTER TRUCK APRON	4553			5671		630.11		52.51									505.89
SPLITTER ISLANDS	7402			7402		822.44										822.44	
AIRCARGO ROAD	6489			7194	773.56	799.33			133.22						721.00		
ISLAND	362			362		40.22										40.22	
DRIVE STA. 510+79.9	300			300		33.33			5.56				1.85				
DRIVE STA. 515+99.5	3125			3125		347.22				77.16							
DRIVE STA. 515+30.3	532			532		59.11				13.14							
US20A AND WHITEHOUSE SPENCER ROAD	40725	41349	40989	46887	4,087.67	5,278.67	1,143.58		868.28		497.76	188.54		219.97			
CENTER TRUCK APRON	3579			4477		497.44		41.45									397.67
SOUTHEAST TRUCK APRON	445			621		69.00		5.75									49.44
SPLITTER ISLANDS	1730			1730		192.22										192.22	
SR 295 & AIR CARGO (01/NHS/PV)					6,411	10,530	1,738	53	1,439	90	756	286	2	334	721	863	506
WHITEHOUSE-SPENCER (02/S>2/PV)					4,088	6,037	1,144	47	868	0	498	189	0	220	0	192	447
SUBTOTAL																	
TOTAL					**10,499**	**16,567**	**2,882**	**2,497**			**1,254**	**477**		**554**	**721**	**1,055**	**953**

CALCULATED ADC
CHECKED ALZ

SUBSUMMARY

LUC-20A-3.47 / 4.47

SPECIFICATIONS

LIGHTING GENERAL NOTES ARE SUPPLEMENTAL TO ITEMS 625 AND 725 OF THE OHIO DEPARTMENT OF TRANSPORTATION (ODOT) CONSTRUCTION AND MATERIAL SPECIFICATIONS, DATED JANUARY 1, 2013, WHICH SHALL GOVERN ALL WORK OF THIS PROJECT, EXCEPT AS HEREINAFTER MODIFIED.

UNDERDRAINS FOR PULLBOXES

REFERENCE IS MADE TO ODOT STANDARD DRAWING HL-30.11 FOR DETAILS OF DRAINING PULL BOXES. UNDERDRAINS FOR PULL BOXES SHALL BE USED AS DIRECTED BY THE ENGINEER AND SHALL BE PROVIDED WHERE THE LENGTH REQUIRED FOR A SATISFACTORY OUTLET DOES NOT EXCEED 20 FEET. THE COST FOR THIS WORK IS TO BE INCLUDED IN THE PULLBOX ITEMS.

625 POWER SERVICE, AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF THE SPECIFICATIONS, THE FOLLOWING IS ADDED.

THE POWER SUPPLYING AGENCY FOR THIS PROJECT IS:

TOLEDO EDISON
MS: A-HLOC-2332
6099 ANGOLA ROAD
TOLEDO, OH 43528
MR. BRAD RUETZ
419-249-5903

THE ENGINEER SHALL ENSURE THAT EACH POWER SERVICE ELECTRICAL ENERGY ACCOUNT IS IN THE NAME OF AND THAT THE BILLING ADDRESS IS TO THE MAINTAINING AGENCY NOTED IN THE PLANS.

PAYMENT WILL BE MADE AT THE UNIT BID PRICE FOR EACH CMS ITEM 625, "POWER SERVICE, AS PER PLAN" WHICH SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS AND INCIDENTALS REQUIRED TO COMPLETE THIS ITEM IN A SATISFACTORY AND WORKMANLIKE MANNER.

PADLOCKS AND KEYS

PADLOCKS FURNISHED SHALL BE EITHER BRASS OR BRONZE, EQUAL TO MASTER NO. 4BKA OR WILSON BOHANNAN 660A, AND SHALL BE KEYED IN ACCORDANCE WITH CMS 631.06. PAYMENT SHALL BE INCLUDED IN THE BID FOR THE ITEM(S) BEING LOCKED.

ITEMS 625-LUMINAIRE, MISC.:, 200 WATT, 240 VOLT, LED, TYPE II DISTRIBUTION

IN ADDITION TO THE REQUIREMENTS OF ODOT'S CONSTRUCTION AND MATERIAL SPECIFICATIONS, LUMINAIRES SHALL BE AS FOLLOWS:

STREET LIGHTING LUMINAIRES SHALL BE 200 WATT, 240 VOLT, LED, 4,000K CCT, 70 CRI MINIMUM, TYPE II DISTRIBUTION AND SHALL COMPLY WITH I.E.S. CLASSIFICATIONS FOR TYPE II DISTRIBUTION. LUMINAIRES SHALL BE EQUIPPED WITH A PROPER SLIP FITTER TO MATCH THE POLE SPECIFIED AND SHALL INCLUDE A 240-VOLT DRIVER COMPLYING WITH 725.11.C.

LUMINAIRES SHALL BE:
COOPER LIGHTING,
GLEON SERIES (GLEON-AA-04-LED-E1-SL2);

HOLOPHANE LIGHTING
MGLED SERIES (MGLED 5 4K AS W L X X);

AMERICAN ELECTRIC LIGHTING
AUTOBAHN ATB2 SERIES (ATB2 60B LED E10 MVOLT R2);

OR EQUAL APPROVED BY THE ENGINEER

PAYMENT WILL BE MADE AT THE UNIT PRICE BID FOR EACH ITEM 625 - "LUMINAIRE, MISC. 200 WATT, 240 VOLT, LED, TYPE II DISTRIBUTION" WHICH SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS, EQUIPMENT AND INCIDENTALS REQUIRED FOR SATISFACTORY PERFORMANCE OF THIS WORK.

ITEM 625 - LIGHT POLE, CONVENTIONAL, AS PER PLAN, A0B30

IN LIEU OF THE GALVANIZED STEEL LIGHT POLES AND BRACKET ARMS SPECIFIED IN 725.21 OF THE ODOT CONSTRUCTION AND MATERIAL SPECIFICATIONS, CONVENTIONAL LIGHT POLES SHALL BE ON OF THE FOLLOWING ALUMINUM POLES:

COOPER LIGHTING
MODEL # RTA 8 M 30 A D;

AMERICAN ELECTRIC
MODEL # RTA3080E

HOLOPHANE
MODEL # RTA3010G;

OR EQUAL APPROVED BY THE ENGINEER.

STEEL ANCHOR BOLTS AS PER 725.21 SHALL BE INCIDENTAL TO THIS ITEM.

PAYMENT WILL BE MADE AT THE UNIT PRICE BID FOR EACH ITEM 625 - "LIGHT POLE, CONVENTIONAL, AS PER PLAN A0B30" WHICH SHALL BE FULL COMPENSATION FOR ALL LABOR , MATERIALS, EQUIPMENT AND INCIDENTALS REQUIRED FOR SATISFACTORY PERFORMANCE OF THIS WORK.

CONTROL CENTER DATA

CONTROL CENTER	LINE VOLTS	CONNECTED LOAD (KVA)	SERVICE ENTRANCE CONDUCTOR SIZE-AWG	ENCLOSURE RATING (AMPS)	CIRCUIT NO.	CIRCUIT LOAD AMPS	CIRCUIT FUSE SIZE AMPS	CIRCUIT CABLE SIZE AWG	MAINTAINING AGENCY
SR 295 STA. 184+56.0 60.7' LT.	120/240 V SINGAL PHASE	2	PER TOLEDO EDISON	100	A	4	20	NO. 4	ODOT
					B	4	20	NO. 4	ODOT
WHITEHOUSE SPENCER STA. 237+38.3 58.2' LT.	120/240 V SINGAL PHASE	2	PER TOLEDO EDISON	100	C	4	20	NO. 4	ODOT

NOTE: FOR ADDITIONAL CONTROL CENTER DETAILS, SEE STANDARD DRAWINGS.

CALCULATED CMN CHECKED LLA

LIGHTING GENERAL NOTES

LUC-20A-3.47 / 4.47

64
87

LEGEND

3" CONDUIT, 725.04 WITH 3 NO. 4 AWG 5000 VOLT DISTRIBUTION CABLES

1 ½" DUCT CABLE WITH 3 NO. 4 AWG 5000 VOLT CABLES

[E] PULLBOX, 725.08, 18"

LIGHT POLE

NOTE:
POLES AND PULLBOXES ARE PLACED TO AVOID DISTRUPTION IF SIDEWALK IS WARRANTED IN THE FUTURE.

CC-A-B
POWER SERVICE/CONTROL CENTER
STA. 184+56.0, 60.7' LT.

PB-A-1
PULLBOX
STA. 184+64.3, 47.1' LT.

LP-A-1
LIGHT POLE
STA. 185+96.7, 80.1' LT.

PB-A-2
PULLBOX
STA. 185+71.9, 69.2' LT.

PB-A-3
PULL BOX
STA. 186+87.3, 185.5' LT.

LP-A-2
LIGHT POLE
STA. 186+83.8, 161.3' LT.

PB-A-4
PULL BOX
STA. 187+45.5, 191.3' LT.

LP-A-3
LIGHT POLE
STA. 187+53.9, 167.4' LT.

PB-B-1
PULL BOX
STA. 185+85.3, 12.4' LT.

LP-B-1
LIGHT POLE
STA. 186+08.6, 11.1' LT.

LP-B-2
LIGHT POLE
STA. 186+61.7, 49.3' RT.

PB-B-2
PULL BOX
STA. 186+65.5, 67.4' RT.

PB-B-3
PULL BOX
STA. 187+25.6, 64.7' RT.

LP-B-3
LIGHT POLE
STA. 187+29.5, 55.2' RT.

LP-B-4
LIGHT POLE
STA. 188+11.5, 21.9' RT.

PB-B-4
PULL BOX
STA. 188+27.8, 21.4' RT.

LP-B-5
LIGHT POLE
STA. 188+29.5, 54.3' LT.

PB-B-5
PULL BOX
STA. 188+40.4, 49.9' LT.

US 20A/MAUMEE WESTERN ROAD

SR 295

Ex R/W

R/W

FO

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED CMN
CHECKED LLA

LIGHTING PLAN
US-20A AND SR 295

LUC-20A-3.47 / 4.47

66
87

M:\12002 (ODOT D2 - Structural GES\Task 2C - LUC-20A-3.55 4.55 (PID 94407) Roundabouts\DGN\Lighting\94407LP01.dgn 4/8/2020 10:09:15 AM ADC

LEGEND

3" CONDUIT, 725.04 WITH 3 NO. 4 AWG 5000 VOLT DISTRIBUTION CABLES

1 ½" DUCT CABLE WITH 3 NO. 4 AWG 5000 VOLT CABLES

PULLBOX, 725.08, 18"

LIGHT POLE

NOTE:
POLES AND PULLBOXES ARE PLACED TO AVOID DISTRUPTION IF SIDEWALK IS WARRANTED IN THE FUTURE.

CC-C
POWER SERVICE/CONTROL CENTER
STA. 237+38.3, 58.2' LT.

PB-C-1
PULLBOX
STA. 237+46.4, 60.1' LT.

LP-C-1
LIGHT POLE
STA. 238+68.3, 83.9' LT.

PB-C-2
PULLBOX
STA. 238+50.3, 76.1' LT.

PB-C-3
PULL BOX
STA. 239+63.4, 163.7' LT.

LP-C-2
LIGHT POLE
STA. 239+57.7, 150.5' LT.

PB-C-4
PULL BOX
STA. 240+16.9, 160.0' LT.

LP-C-3
LIGHT POLE
STA. 240+22.4, 141.4' LT.

LP-C-4
LIGHT POLE
STA. 240+64.4, 53.3' LT.

PB-C-5
PULL BOX
STA. 240+70.0, 50.4' LT.

LP-C-8
LIGHT POLE
STA. 238+77.9, 17.8' LT.

PB-C-7
PULL BOX
STA. 239+35.3, 26.3' LT.

LP-C-7
LIGHT POLE
STA. 239+38.3, 30.4' RT.

LP-C-5
LIGHT POLE
STA. 240+49.8, 9.5' RT.

PB-C-7
PULL BOX
STA. 240+12.1, 27.6' RT.

LP-C-6
LIGHT POLE
STA. 240+05.6, 34.8' RT.

PB-C-6
PULL BOX
STA. 240+69.8, 6.0' RT.

US-20A/MAUMEE WESTERN ROAD

WHITEHOUSE SPENCER ROAD

Ex R/W

R/W

FO

TEL

237 238 239 240 241 242

29

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED CMN
CHECKED LLA

LIGHTING PLAN
US-20A AND WHITEHOUSE SPENCER ROAD

LUC-20A-3.47 / 4.47

67
87

M:\12002 (ODOT D2 - Structural GES)\Task 2C - LUC-20A-3.55 4.55 (PID 94407) Roundabouts\DGN\Lighting\94407LP02.dgn 4/8/2020 10:10:36 AM ADC