

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:

BUCKEYE CABLEVISION
 2700 OREGON RD.
 NORTHWOOD, OH 43519
 419-724-3713

COLUMBIA GAS OF OHIO, INC.
 2901 E. MANHATTAN BLVD.
 TOLEDO, OH 43611
 419-539-6066

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

FRONTIER COMMUNICATIONS
 300 WEST GYPSY LANE RD.
 BOWLING GREEN, OH 43402
 419-354-9452

HANCOCK-WOOD ELECTRIC COOP.
 P.O. BOX 190
 NORTH BALITMORE, OH 45872
 419-257-5015

NORTH COAST GAS TRANSMISSION
 445 HUTCHINSON AVE. #830
 COLUMBUS, OH 43215
 281-770-3143

NORTHWESTERN WATER & SEWER
 P.O. BOX 348
 BOWLING GREEN, OH 43402
 419-354-9090

TOLEDO EDISON
 6099 ANGOLA RD.
 HOLLAND, OH 43528
 419-249-5218

VILLAGE OF BRADNER
 130 NORTH MAIN ST.
 P.O. BOX 599
 BRADNER, OH 43406
 419-288-2890

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.

ASPHALT CONCRETE FOR DRIVEWAYS AND MAILBOX APPROACHES

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

ITEM 442 - ASPH. CONC. SURFACE, 12.5MM, TYPE A (446) 200 CU. YARD

TOTALS CARRIED TO GENERAL SUMMARY

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

ELEVATION DATUM

ALL ELEVATIONS ARE ORTHOMETRIC HEIGHTS USING THE NORTH AMERICAN VERTICAL DATUM OF 1998 (NAVD88) AND GEOID03 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(NSRS 2011)), AND THE GRS80 ELLIPSOID.

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.

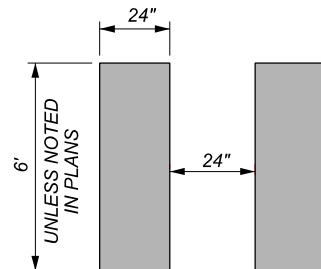
ITEMS ADJUSTED TO GRADE

THE FOLLOWING ITEMS HAVE BEEN CARRIED IN THE PLANS AS CONTINGENCY QUANTITIES AND SHOULD BE USED AS DIRECTED BY THE ENGINEER.

ITEM 623, MONUMENT BOX ADJUSTED TO GRADE 1 EACH

ITEM 642, CROSSWALK LINE, AS PER PLAN

24" WHITE LONGITUDINAL LINES SHALL BE PLACED PARALLEL TO TRAFFIC FLOW AS SHOWN IN FOLLOWING DETAIL. THE MARKING DESIGN SHOULD AVOID THE WHEEL PATHS.



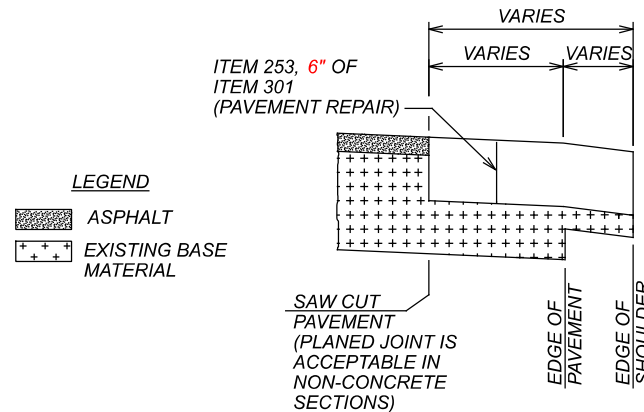
ITEM 253, PAVEMENT REPAIR

PAVEMENT SHALL BE PLANED BEFORE PAVEMENT REPAIRS ARE PERFORMED.

THE FOLLOWING ESTIMATED QUANTITIES ARE TO BE USED FOR 6" PAVEMENT REPAIR ON U.S. 23 AS DIRECTED BY THE ENGINEER BASED ON 15% OF THE PAVEMENT AREA.

ITEM 253, PAVEMENT REPAIR 2556 CU. YARDS

ESTIMATED QUANTITIES CARRIED TO THE GENERAL SUMMARY.



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

SAFETY EDGE

ITEM 442 - ASPH. CONC. SURFACE, 12.5MM, TYPE A (446)
 ITEM 442 - ASPH. CONC. INTERMEDIATE CONC., 19MM, TYPE A (446)

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

WOOD - U.S. 23 (6.02-11.84)
 ITEM 442 - ASPH. CONC. SURFACE, 12.5MM, TYPE A (446) 26 CU. YD.
 ITEM 442 - ASPH. CONC. INTERMEDIATE CONC., 19MM, TYPE A (446) 62 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:

WOOD - U.S. 23 (6.02-11.84)
 11.64 MILES
 -1.34 MILES (GUARDRAIL, DRIVE & CURB AREAS)
 10.30 MILES

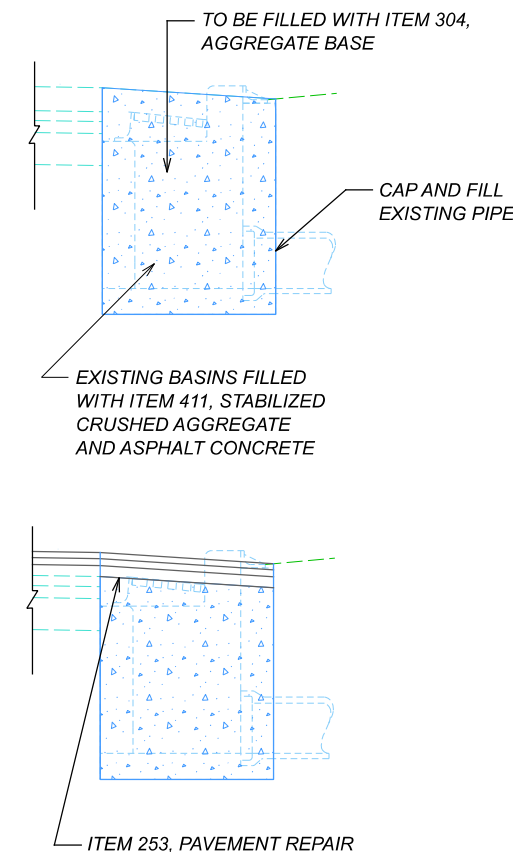
A QUANTITY OF 10.30 MILES HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR PREPARING SUBGRADE FOR SHOULDERS.

ITEM 611, CATCH BASIN ADJUSTED TO GRADE, AS PER PLAN

ALL WORK TO BE DONE UNDER THIS ITEM, TOGETHER WITH ALL THE MATERIALS FURNISHED, SHALL CONFORM TO ODOT ITEM 611. THE CATCH BASIN GRATE WILL BE REPLACED WITH A BICYCLE SAFE GRATE. THE COST OF ALL MATERIAL AND LABOR SHALL BE INCLUDED AS PART OF THE UNIT PRICE BID FOR ITEM 611, CATCH BASIN ADJUSTED TO GRADE, AS PER PLAN.

ITEM 611, CATCH BASIN REMOVED, AS PER PLAN

REMOVE PORTIONS OF CATCH BASINS TO AN ELEVATION BELOW THE EXISTING SUBGRADE AND UNTIL SOLID CONCRETE/MASONRY WALLS ARE ENCOUNTERED. PLUG ALL OUTLETS. REMOVE ALL FOREIGN DEBRIS FROM BASIN. IN CONJUNCTION WITH THE CONDUIT, FILL AND PLUG ITEM, FILL THE REMAINING BASIN WITH LSM. BACKFILL ABOVE THE LSM WITH ITEM 304, AGGREGATE BASE COMPACTED IN 6" LIFTS TO SUBBASE LEVEL. REPLACEMENT OF ASPHALT PAVEMENT IN AREA OF BASIN REMOVAL WILL BE COVERED UNDER APPROPRIATE PAY ITEMS FOR PAVEMENT REPAIRS.



ITEM 202, CURB AND GUTTER REMOVED, AS PER PLAN

ITEM 202, CURB AND GUTTER REMOVED, AS PER PLAN SHALL INCLUDE THE REMOVAL OF THE CURB & GUTTER AND REPLACING THE VOID WITH ASPHALT UP TO THE EXISTING ELEVATION. THE ASPHALT WILL BE PAID FOR UNDER ITEM 253, PAVEMENT REPAIR.

GENERAL NOTES

DESIGN AGENCY



DESIGNER

TLM

REVIEWER

JMF 11-02-20

PROJECT ID


102922

SHEET TOTAL

P.5 20

SHEET NUM.						PART.		ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
5	6	9	10	11	12	01/NHS/PV	02/NHS/OT						
												ROADWAY	
			444			444		202	30000	444	SF	WALK REMOVED	
				40		40		202	32501	40	FT	CURB AND GUTTER REMOVED, AS PER PLAN	5
				45		45		202	35100	45	FT	PIPE REMOVED, 24" AND UNDER	
				150		150		202	38000	150	FT	GUARDRAIL REMOVED	
				1		1		202	58700	1	EACH	MANHOLE ABANDONED	
				4		4		202	58101	4	EACH	CATCH BASIN REMOVED, AS PER PLAN	5
				478		478		SPECIAL	20270000	478	FT	FILL AND PLUG EXISTING CONDUIT, 12"	
10.3		12				12		209	60500	12	MILE	LINEAR GRADING	
						10.3		209	72050	10.3	MILE	PREPARING SUBGRADE FOR SHOULDER PAVING	
						163		606	15050	163	FT	GUARDRAIL, TYPE MGS	
				2		2		606	26550	2	EACH	ANCHOR ASSEMBLY, MGS TYPE T	
				280		280		608	10000	280	SF	4" CONCRETE WALK	
				51		51		608	52000	51	SF	CURB RAMP	
				485		485		608	52001	485	SF	CURB RAMP, AS PER PLAN	9
1						1		623	39500	1	EACH	MONUMENT BOX ADJUSTED TO GRADE	
												EROSION CONTROL	
								832	30000	1,000	EACH	EROSION CONTROL	
												DRAINAGE	
				3		3		611	98630	3	EACH	CATCH BASIN ADJUSTED TO GRADE	
				1		1		611	98631	1	EACH	CATCH BASIN ADJUSTED TO GRADE, AS PER PLAN	5
				3		3		611	99654	3	EACH	MANHOLE ADJUSTED TO GRADE	
												PAVEMENT	
	2,556					2,556		253	02000	2,556	CY	PAVEMENT REPAIR	
		103,700				103,700		254	01000	103,700	SY	PAVEMENT PLANING, ASPHALT CONCRETE, 3 1/4"	
		14,520				14,520		407	20000	14,520	GAL	NON-TRACKING TACK COAT	
	226	4,322				4,548		442	10000	4,548	CY	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446)	
	62	5,042				5,104		442	10100	5,104	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (446)	
				16		16		609	26000	16	FT	CURB, TYPE 6	
		1,848				1,848		617	10100	1,848	CY	COMPACTED AGGREGATE	
		11				11		618	41000	11	MILE	RUMBLE STRIPES, EDGE LINE (ASPHALT CONCRETE)	
		6				6	6	618	43000	6	MILE	RUMBLE STRIPES, CENTER LINE (ASPHALT CONCRETE)	
		30,684				30,684		874	20000	30,684	FT	LONGITUDINAL JOINT PREPARATION	
												WATER WORK	
				1		1		638	10800	1	EACH	VALVE BOX ADJUSTED TO GRADE	
												TRAFFIC CONTROL	
					340	340		621	00100	340	EACH	RPM	
					126	126		621	54000	126	EACH	RAISED PAVEMENT MARKER REMOVED	
					11.6	11.6		642	00104	11.6	MILE	EDGE LINE, 6", TYPE 1	
					11.6	11.6		642	00300	11.6	MILE	CENTER LINE, TYPE 1	
					26	26		644	00500	26	FT	STOP LINE	
					360	360		644	00601	360	FT	CROSSWALK LINE, AS PER PLAN	5
												MAINTENANCE OF TRAFFIC	
		72				72		614	12460	72	EACH	WORK ZONE MARKING SIGN	
		5				5		614	12500	5	EACH	REPLACEMENT SIGN	
		5				5		614	12600	5	EACH	REPLACEMENT DRUM	
		34.8				34.8		614	21400	34.8	MILE	WORK ZONE CENTER LINE, CLASS II	
		34.8				34.8		614	21550	34.8	MILE	WORK ZONE CENTER LINE, CLASS III, 642 PAINT	
				78		78		614	26610	78	FT	WORK ZONE STOP LINE, CLASS III, 642 PAINT	

GENERAL SUMMARY

DESIGN AGENCY

 DESIGNER
 TLM
 REVIEWER
 JMF 07-01-20
 PROJECT ID
 102922
 SHEET TOTAL
 P.7 | 20


DRAINAGE CALCULATIONS

REF NO.	SHEET NO.	STATION TO STATION				202	202	202	202	SPECIAL													
		FT	FT	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	
DR-1	14	366+90																					
DR-2	15	371+05																					
DR-3	15	374+13																					
DR-4	15	377+86																					
DR-5	15	384+10																					
DR-6	19	574+97	TO	575+10																			
DR-7	19	575+10	TO	577+08																			
DR-8	19	577+08	TO	577+06																			
DR-9	19	577+06																					
DR-10	20	580+65																					
DR-11	20	580+65																					
TOTALS CARRIED TO GENERAL SUMMARY					40	45	1	4	478														

GUARDRAIL CALCULATIONS

REF NO.	SHEET NO.	STATION TO STATION				202	606	606																
		FT	FT	EACH	EACH	FT	FT	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH		
GR-1	11	392+00	TO	393+50																				
TOTALS CARRIED TO GENERAL SUMMARY					150	163	2																	

SUBSUMMARIES

DESIGN AGENCY

 DESIGNER: TLM
 REVIEWER: JMF 11-02-20
 PROJECT ID: 102922
 SHEET: P.11 TOTAL: 20