

GENERAL NOTES

GENERAL SUMMARY

THE CONTRACTOR SHALL TAKE ADEQUATE PRECAUTIONS TO PREVENT DAMAGE TO PAVEMENT, ELECTRIC, TELEPHONE, WATER, GAS AND SEWER LINES ON "STATE ROUTE 174" DURING CONSTRUCTION OF THE "COFFERDAM". THE COST OF THE PROTECTION SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 504 STEEL SHEET PILING LEFT IN PLACE.

DETAILS AND DIMENSION OF THE "COFFERDAM" AS SHOWN ON THE PLANS, ARE CALCULATED TO YIELD AN "EXACT FIT" AND ARE BASED ON THE TYPE OF SHEET PILING LISTED UNDER "SHEET PILING TYPE". IF ANY OTHER TYPE OF APPROVED EQUIVALENT IS USED HAVING DIMENSIONS OTHER THAN THE PRODUCTS LISTED, THE OVERALL DESIGN DIMENSIONS SHALL BE CONSIDERED NOMINAL AND SHALL BE MODIFIED TO INSURE AN "EXACT FIT" OF THE SHEET PILING.

SHEET PILING TYPE

STEEL SHEET PILING SECTIONS SHALL BE EITHER BETHLEHEM STEEL SP4, U.S. STEEL MPII2 OR AN APPROVED EQUAL HAVING A MINIMUM ULTIMATE INTERLOCK STRENGTH OF 12,000 LBS. PER LIN. INCH. 120° FABRICATED WYES WITH 8-1/2 INCH LEGS MEETING THE ABOVE REQUIREMENTS, SHALL BE USED AT ALL CORNER CONNECTIONS.

COFFERDAM CONSTRUCTION

1 INCH DIAMETER WEEPHOLES MADE BY EITHER CUTTING OR BURNING, SHALL BE LOCATED 8 FT. ON CENTERS BOTH HORIZONTALLY AND VERTICALLY ON THE DOWNSLOPE SIDE OF THE COFFERDAM. THE LOWER LINE OF WEEPHOLES SHALL BE LOCATED AT A DISTANCE OF NOT MORE THAN 2 FT. FROM THE BOTTOM OF THE SHEETING. AFTER ALL SHEETING IS IN PLACE ADDITIONAL WEEPHOLES SHALL BE MADE 8 FT. ON CENTERS, 6 INCHES ABOVE THE GROUND LINE. CELL FILL MATERIAL (WHERE REQUIRED) SHALL BE GRANULAR MATERIAL WITH 85% RETAINED ON A No. 200 SIEVE, AND SHALL BE PLACED AND COMPACTED IN ACCORDANCE WITH 203.09. SPECIAL CARE SHALL BE TAKEN TO FILL EACH CELL SIMULTANEOUSLY TO PREVENT DISTORTION. PAYMENT FOR ALL ITEMS ABOVE SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 504 STEEL SHEET PILING LEFT IN PLACE, AS PER PLAN.

SOIL INFORMATION

SUBSURFACE INVESTIGATIONS HAVE BEEN MADE WITHIN THE PROJECT AREA. COPIES OF THIS DATA MAY BE INSPECTED IN THE DISTRICT DEPUTY DIRECTOR'S OFFICE, THE BUREAU OF TESTS AT 1600 WEST BROAD STREET, THE PAVEMENT AND SOILS SECTION OF THE BUREAU OF ROADWAY DESIGN OR IN THE BUREAU OF BRIDGES AT 25 SOUTH FRONT STREET.

UNDERGROUND UTILITIES

THE LOCATIONS OF THE UNDERGROUND UTILITIES SHOWN ON THESE PLANS HAVE BEEN OBTAINED BY DILIGENT FIELD CHECKS AND SEARCHES OF AVAILABLE RECORDS. IT IS BELIEVED THAT THEY ARE ESSENTIALLY CORRECT, BUT THE STATE OF OHIO DOES NOT GUARANTEE THEIR ACCURACY OR COMPLETENESS.

UTILITIES

THE FOLLOWING IS A LIST OF UTILITIES WITHIN OR ADJACENT TO THE CONSTRUCTION LIMITS OF THIS PROJECT:

CLEVELAND ELECTRIC ILLUMINATING CO. 55 PUBLIC SQUARE CLEVELAND, OHIO 44101	EAST OHIO GAS CO. 1201 EAST 55th STREET CLEVELAND, OHIO 44103
--	---

CITY OF WILLOUGHBY HILLS SERVICE DEPARTMENT MUNICIPAL HALL-35405 CHARDON RD. WILLOUGHBY HILLS, OHIO 44094	OHIO BELL TELEPHONE CO. 820 SUPERIOR AVE. N.W. CLEVELAND, OHIO 44113
--	--

CLEANING CATCH BASIN AND SEWER

PRIOR TO PROJECT ACCEPTANCE, THE PROPOSED CATCH BASIN AND BOTH THE EXISTING AND PROPOSED SEWER SHALL BE CLEANED OF ALL FOREIGN MATTER TO THE SATISFACTION OF THE ENGINEER. PAYMENT FOR THE ABOVE SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 603, 18" CONDUIT TYPE B.

FIELD OFFICE

THE CONTRACTOR SHALL PROVIDE A SUITABLE FIELD OFFICE HAVING A MINIMUM OF 150 SQ. FT. OF FLOOR SPACE AND IN ADDITION TO THE REQUIREMENTS OF ITEM 619, HE SHALL PROVIDE AND MAINTAIN SANITARY PROVISIONS AS PER 107.06. PAYMENT FOR ALL ITEMS ABOVE SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 619 FIELD OFFICE.

TRAFFIC MAINTENANCE

A MINIMUM OF ONE-WAY TRAFFIC MOVEMENT SHALL BE MAINTAINED AS PER PLAN AT ALL TIMES. WHEN ONE-WAY TRAFFIC IS REQUIRED, IT SHALL NOT COMMENCE BEFORE OR CONTINUE UNTIL THE REQUIRED TRAFFIC CONTROL DEVICES (SIGNS, BARRICADES, FLOODLIGHTS, AND FLAGMAN) ARE IN PLACE. THE CONTRACTOR SHALL ADHERE IN ALL RESPECTS TO THE "OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, CURRENT EDITION, LATEST REVISION". SIGNS SHALL BE KEPT IN PROPER POSITION, CLEAN AND LEGIBLE AT ALL TIMES. BARRICADES AND TEMPORARY GUARD RAIL SHALL BE NEATLY CONSTRUCTED AND SHALL NOT APPEAR MAKE-SHIFT. TWO FLAGMEN WEARING REFLECTORIZED ORANGE VESTS AND ORANGE CAPS, SHALL BE CLEARLY VISIBLE TO APPROACHING TRAFFIC AT ALL TIMES. SHALL USE TWO-WAY RADIOS FOR COORDINATING THE MOVEMENT OF ONE-LANE TRAFFIC AND TO SAFEGUARD THE MOVEMENT OF VEHICLES FROM PRIVATE DRIVEWAYS WITHIN THE AREA. SHALL USE REFLECTORIZED OR ILLUMINATED SIGN PADDLES AT NIGHT, AND SHALL OCCUPY FLAGMAN STATIONS THAT ARE ADEQUATELY ILLUMINATED WITH TEMPORARY FLOODLIGHTS. ONE TRAFFIC LANE OF NOT LESS THAN 12 FEET SHALL BE KEPT OPEN AT ALL TIMES. PAYMENT FOR ALL ITEMS ABOVE SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 614 MAINTAINING TRAFFIC, INCLUDING MAINTENANCE AND OPERATION AS REQUIRED OF ANY FLASHING DEVICES, TEMPORARY GUARD RAIL, FLOODLIGHTS, TWO-WAY RADIO, AND ANY AND ALL OTHER TRAFFIC CONTROL EQUIPMENT. THE CONTRACTOR SHALL LIKEWISE MAINTAIN THE PAVEMENT SURFACE USED BY THROUGH-TRAFFIC SO THAT IT IS SMOOTH AND FREE FROM RUTS OR ANY OTHER OBSTACLES AS SOON AS NOTIFIED BY THE ENGINEER.

REMOVAL OF EXISTING TRAFFIC CONTROL EQUIPMENT

THE EXISTING BARRELS, SIGNS AND INCIDENTAL TRAFFIC CONTROL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND STORED WITHIN THE LIMITS OF THE PROJECT AT LOCATIONS APPROVED BY THE ENGINEER FOR REMOVAL BY CITY FORCES.

TO ASSURE MAINTENANCE OF ADEQUATE TRAFFIC CONTROL AT ALL TIMES, NO SIGNS SHALL BE REMOVED WITHOUT THE APPROVAL OF THE ENGINEER.

PAYMENT FOR THE ABOVE WORK SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 614, MAINTAINING TRAFFIC.

TEMPORARY ROADWAY

AN ESTIMATED QUANTITY OF 15 CU. YD. ITEM 410, TRAFFIC COMPACTED SURFACE, TYPE C HAS BEEN INCLUDED IN THE GENERAL SUMMARY FOR MAINTENANCE OF TRAFFIC.

IT IS NOT INTENDED THAT TEMPORARY ROADWAY BE USED EXCLUSIVELY FOR MAINTAINING TRAFFIC ON THIS PROJECT, BUT THAT MAXIMUM USAGE BE MADE OF EXISTING AND PROPOSED PAVEMENTS.

THE LIMITS AND DURATION OF USE OF TEMPORARY ROADWAY SHALL BE HELD TO AN ABSOLUTE MINIMUM, AND IN ALL CASES SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.

REMOVAL OF TREES AND STUMPS

NO TREES AND STUMPS SHALL BE REMOVED UNLESS SPECIFICALLY DIRECTED BY THE ENGINEER.

WEARING COURSE REPAIR (STA. 143+97 TO STA. 145+75)

FOR PAVEMENT AREAS DAMAGED DURING CONSTRUCTION THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY TO BE USED AS DIRECTED BY THE ENGINEER:

ITEM 202 - WEARING COURSE REMOVED	150 S.Y.
ITEM 402 - ASPHALT CONCRETE	7 C.Y.
ITEM 404 - ASPHALT CONCRETE	5 C.Y.
ITEM 301 - BIT. AGGR. BASE	9 C.Y.
ITEM 408 - BIT. PRIME COAT	60 GAL.
ITEM 408 - COVER AGGR.	1 C.Y.

ITEM	SHEET NUMBER					ITEM	QUANT.	UNIT	DESCRIPTION
	3	4	5	6	7				
ROADWAY									
201	LUMP					201	LUMP	L.S.	CLEARING AND GRUBBING
		3				202	3	LIN.FT.	PIPE REMOVED, 24" AND UNDER
202		187.5				202	187.5	L.F.	GUARDRAIL REMOVED FOR RE-USE
202	150	38				202	188	S.Y.	WEARING COURSE REMOVED
203			4	9	10	203	23	C.Y.	EXCAVATION NOT INCLUDING EMBANKMENT CONSTRUCTION
203			2	2	14	203	30	C.Y.	EMBANKMENT
203		137				203	137	S.Y.	SUBGRADE COMPACTION
410	15					410	15	C.Y.	TRAFFIC COMPACTED SURFACE, TYPE C
504		7175				504	7175	S.F.	STEEL SHEET PILING LEFT IN PLACE, AS PER PLAN.
606		1875				606	1875	L.F.	GUARDRAIL REBUILT, TYPE 5
659		12	10	57	48	659	127	S.Y.	SEEDING AND MULCHING
659	0.02					659	0.02	TON	COMMERCIAL FERTILIZER (12-12-12)
PAVEMENT									
301	9	24				301	33	C.Y.	BITUMINOUS AGGREGATE BASE; 702.01, AC-20; OR 702.09, RT-II OR RT-12
402	7	2				402	9	C.Y.	ASPHALT CONCRETE, AC-20
404	5	1				404	6	C.Y.	ASPHALT CONCRETE, AC-20
408	60	15				408	75	GAL.	BIT. PRIME COAT: 702.09, RT-2 OR RT-3; 702.02, MC-30 OR MC-70 OR 702.03
408	1					408	1	C.Y.	COVER AGGREGATE
409		26				409	26	GAL.	SEAL COAT BITUMINOUS MATERIAL; 702.09, RT-9 OR RT-10; 702.02, MC-800
409		1				409	1	C.Y.	SEAL COAT COVER AGGREGATE, No. 8 OR MC-3000; 702.04, RS-1, RS-2, CRS-1 OR CRS-2 OR 702.03 CBAE-800.
609		178				609	178	L.F.	COMBINATION CURB AND GUTTER, TYPE 2
DRAINAGE									
603		13				603	13	L.F.	18" CONDUIT, TYPE B
604		1				604	1	EACH	STANDARD No. 3A CATCH BASIN
614	LUMP					614	LUMP	L.S.	MAINTAINING TRAFFIC
619	LUMP					619	LUMP	L.S.	FIELD OFFICE

Commercial Fertilizer (12-12-12)
127 S.Y. Seeding x 9 ÷ 1000 x 20 ÷ 2000 = 0.02 Ton