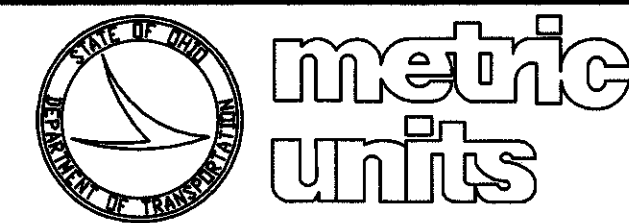


GENERAL NOTES



CALCULATED
DEW
CHECKED
JSK

ROUNDING

THE ROUNDING AT SLOPE BREAKPOINTS SHOWN ON THE TYPICAL SECTIONS APPLY 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:

| | |
|---|--|
| CLEVELAND ELECTRIC ILLUMINATING CO. 7755 AUBURN RD. PAINESVILLE, OHIO 44077 ATTN: RICH KERNEY, PHILLIP MULLET PHONE: (216) 953-7751 (216) 953-7741 | LAKE COUNTY DEPT. OF UTILITIES ADMINISTRATION BUILDING 105 MAIN ST. P.O. BOX 490 PAINSEVILLE, OHIO 44077 ATTN: CHRIS HODGES PHONE: (216) 350-2735 |
| EAST OHIO GAS 7001 CENTER ROAD ASHTABULA, OH 44004 PHONE: (216) 736-6108 | ALLTEL SYSTEMS 4616 PARK AVE., P.O. BOX 1010 ASHTABULA, OH 44004 PHONE: (216) 993-5151 |

THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS AS REQUIRED BY SECTION 153.64 O.R.C.

CONTINGENCY QUANTITIES

THE CONTRACTOR SHALL NOT ORDER MATERIALS OR PERFORM WORK FOR ITEMS DESIGNATED BY PLAN NOTE TO BE USED "AS DIRECTED BY THE ENGINEER" UNLESS AUTHORIZED BY THE ENGINEER. THE ACTUAL WORK LOCATIONS AND QUANTITIES USED FOR SUCH ITEM SHALL BE INCORPORATED INTO THE FINAL CHANGE ORDER GOVERNING COMPLETION OF THIS PROJECT.

ELEVATION DATUM

ALL ELEVATIONS ARE BASED ON U.S.G.S. DATUM.

WORK LIMITS

THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. THE INSTALLATION AND OPERATION OF ALL TEMPORARY TRAFFIC CONTROL AND TEMPORARY TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS SHALL BE PROVIDED BY THE CONTRACTOR WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS.

REMOVAL OF TREES OR STUMPS

ALL TREES AND STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE CONSTRUCTION LIMITS SHALL BE REMOVED UNDER THE LUMP SUM BID FOR ITEM 201, CLEARING AND GRUBBING. THE FOLLOWING IS AN APPROXIMATE ESTIMATE OF THE NUMBER OF TREES AND STUMPS TO BE REMOVED:

| SIZES | NO. TREES | NO. STUMPS | TOTAL |
|---------|-----------|------------|-------|
| 450 mm | 7 | 0 | 7 |
| 750 mm | 2 | 0 | 2 |
| 1200 mm | 1 | 0 | 1 |
| 1500 mm | 0 | 0 | 0 |

PAVING UNDER GUARDRAIL

THIS OPERATION SHALL INCLUDE PREPARATION OF THE GRADED SHOULDER USING ITEM 203, EXCAVATION INCLUDING EMBANKMENT CONSTRUCTION, AND PAVING UNDER THE GUARDRAIL USING ITEM 448, 75mm ASPHALT CONCRETE SURFACE COURSE, TYPE 1, UNDER GUARDRAIL, PG 64-22, AS PER PLAN.

THE REMOVED MATERIAL SHALL BE REPLACED WITH COMPACTABLE GRANULAR MATERIAL CONFORMING TO 203.02 PLACED TO GRADE AS DETAILED ON THE TYPICAL SECTION OR AS APPROVED BY THE ENGINEER.

PAVING UNDER GUARDRAIL SHALL CONSIST OF PLACING ITEM 448 TO THE DEPTH SPECIFIED USING ONE OF THE FOLLOWING METHODS:

- METHOD A:
- 1) SET GUARDRAIL POSTS
 - 2) PLACE ITEM 448
- METHOD B:
- 1) PLACE ITEM 448
 - 2) BORE ASPHALT AT POST LOCATIONS (MAY BE OMITTED IF STEEL POSTS ARE USED)
 - 3) SET GUARDRAIL POSTS
 - 4) PATCH AROUND POSTS. THE MATERIALS USED FOR PATCHING SHALL BE A BITUMINOUS CONCRETE APPROVED BY THE ENGINEER. PATCHED AREAS SHALL BE COMPACTED USING EITHER HAND OR MECHANICAL METHODS. FINISHED SURFACES SHALL BE SMOOTH AND SLOPED TO DRAIN AWAY FROM THE POSTS.

ALL EQUIPMENT, MATERIALS AND LABOR REQUIRED TO PERFORM THE WORK OUTLINED ABOVE, WITH THE EXCEPTION OF SETTING GUARDRAIL POSTS, SHALL BE INCLUDED FOR PAYMENT UNDER ITEM 448, ASPHALT CONCRETE SURFACE COURSE, TYPE 1, UNDER GUARDRAIL, PG 64-22, AS PER PLAN.

OVERNIGHT TRENCH CLOSING

THE BASE WIDENING SHALL BE COMPLETED TO A DEPTH NO MORE THAN 130 mm BELOW THE EXISTING PAVEMENT BY THE END OF EACH WORK DAY. NO TRENCH SHALL BE LEFT OPEN OVERNIGHT EXCEPT FOR A SHORT LENGTH (7620 mm OR LESS) OF A WORK SECTION AT THE END OF THE TRENCH. IN CASE WORK MUST BE SUSPENDED BECAUSE OF INCLEMENT WEATHER OR OTHER REASONS, THE TRENCH FOR THE UNCOMPLETED BASE WIDENING SHALL BE BACKFILLED AT THE DIRECTION OF THE ENGINEER.

SODDING OF LAWNS

WHETHER OR NOT SHOWN ON PLANS, SODDING SHALL BE EXTENDED TO COMPASS ALL LAWNS AND/OR LAWN-LIKE AREAS AS DETERMINED BY THE ENGINEER.

TEMPORARY SOIL EROSION AND SEDIMENT CONTROL

THE FOLLOWING ESTIMATED QUANTITIES ARE TO BE USED AS DIRECTED BY THE ENGINEER TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES:

| | |
|--|---------------|
| 207, TEMPORARY SEEDING AND MULCHING | 150 SQ. METER |
| 207, STRAW OR HAY BALES | 50 EACH |
| 207, TEMPORARY BENCHES, DAMS AND SEDIMENT BASINS | 80 CU. METER |
| 207, FILTER FABRIC FENCE | 90 METER |
| 207, TEMPORARY DITCH PROTECTION | 60 SQ. METER |
| 601, ROCK CHANNEL PROTECTION, TYPE C (WITH FILTER) | 16 CU. METER |
| 659, MOWING | 185 SQ. METER |
| 659, COMMERCIAL FERTILIZER | 7.5 KILOGRAMS |
| 659, WATER | 2 CU. METER |

EROSION CONTROL

ITEM 601, IS PROVIDED IN THE PLANS FOR EROSION CONTROL. ROCK OF A SUITABLE NATURE SHALL NOT BE REMOVED IN ORDER TO PLACE THIS ITEM. THE ENGINEER SHALL CHECK AND NON-PERFORM QUANTITIES OR ADJUST LOCATIONS AND QUANTITIES OF THIS ITEM WHERE INDICATED BY FIELD CONDITIONS DURING CONSTRUCTION. IN ADDITION, THIS ITEM SHALL MEET THE REQUIREMENT OF 108.04.

CROSSINGS AND CONNECTIONS TO EXISTING PIPES AND UTILITIES

WHERE PLANS PROVIDE FOR A PROPOSED CONDUIT TO BE CONNECTED TO, OR CROSS OVER OR UNDER AN EXISTING SEWER OR UNDERGROUND UTILITY, THE CONTRACTOR SHALL LOCATE THE EXISTING PIPES OR UTILITIES BOTH AS TO LINE AND GRADE BEFORE STARTING TO LAY THE PROPOSED CONDUIT.

IF IT IS DETERMINED THAT THE ELEVATION OF THE EXISTING CONDUIT, OR EXISTING APPURTENANCE TO BE CONNECTED, DIFFERS FROM THE PLAN ELEVATION OR RESULTS IN A CHANGE IN THE PLAN CONDUIT SLOPE, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WILL BE AFFECTED BY VARIANCE IN THE EXISTING CONDITIONS.

IF IT IS DETERMINED THAT THE PROPOSED CONDUIT WILL INTERSECT AN EXISTING SEWER OR UNDERGROUND UTILITY IF CONSTRUCTED AS SHOWN ON THE PLAN, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WOULD BE AFFECTED BY THE INTERFERENCE WITH AN EXISTING FACILITY.

PAYMENT FOR ALL THE OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE BID FOR THE PERTINENT 603 CONDUIT ITEM.

ENVIRONMENTAL PLAN NOTES

NO STOCKPILING OF MATERIALS OR STORAGE OF EQUIPMENT WILL BE ALLOWED IN THE SOUTHEAST QUADRANT OF THE BRIDGE WHERE A JURISDICTIONAL WETLAND IS PRESENT.

THE DISTRICT PLANNING & PROGRAMS OFFICE MUST BE NOTIFIED AFTER COMPLETION OF THE PROJECT TO ENSURE A POST-CONSTRUCTION REPORT IS FILED WITH THE ARMY CORPS OF ENGINEERS FOR IMPACTS TO ABOVE HEADWATER WETLANDS.

THE CONTRACTOR SHOULD LIMIT WORK WITHIN THE STREAM TO JANUARY 1 TO FEBRUARY 28 AND APRIL 16 TO AUGUST 31.

FILTER FABRIC FENCE SHALL BE INSTALLED ALONG THE RIGHT-OF-WAY AS DIRECTED BY THE ENGINEER AT THE FOLLOWING LOCATIONS: (30 METERS HAVE BEEN ADDED TO ITEM 207 ABOVE)

STA. 3+226.61; 24.45 LT. TO STA. 3+238.46; 13.15 LT.
STA. 3+180.00; 14.5 RT. TO STA. 3+195.00; 14.5 RT.

QUANTITIES CARRIED TO GENERAL SUMMARY

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 APPURTENANCES 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 603 CONDUIT ITEMS.

RESIDENTIAL AND COMMERCIAL DRAINAGE CONNECTIONS

EXISTING ROOF DRAINS, FOOTER DRAINS, OR YARD DRAINS, DISTURBED BY THE WORK, SHALL BE PROVIDED WITH UNOBSTRUCTED OUTLETS BY CONNECTING A CONDUIT THROUGH THE CURB OR INTO A DRAINAGE STRUCTURE. THE LOCATION, TYPE, SIZE AND GRADE OF THE NEW CONDUIT REQUIRED TO REPLACE OR EXTEND THE EXISTING DRAIN WILL BE DETERMINED BY THE ENGINEER.

THE FOLLOWING CONDUIT TYPES MAY BE USED: 707.45, 707.41 NON-PERFORATED, 707.42 OR 707.33.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER FOR THE WORK NOTED ABOVE:

| | |
|--|---------|
| 603, 150 mm CONDUIT, TYPE E, FOR DRAINAGE CONNECTION | 5 METER |
| 603, 150 mm CONDUIT, TYPE F, FOR DRAINAGE CONNECTION | 5 METER |

PART-WIDTH CONSTRUCTION

BECAUSE OF THE NECESSITY TO BUILD THIS PROJECT UNDER TRAFFIC AND CONSTRUCTING THE FULL PAVEMENT WIDTH IN STAGES, EXTREME CARE SHALL BE TAKEN TO PREVENT THE CONSTRUCTION OF A BUTT JOINT IN THE BASE COURSES. LONGITUDINAL JOINTS SHALL BE LAPPED AS SHOWN ON STANDARD CONSTRUCTION DRAWING BP-3.1.M.

ITEM 407, TACK COAT

THE RATE OF APPLICATION OF THE 407 TACK COAT SHALL BE SUBJECT TO ADJUSTMENT AS DIRECTED BY THE ENGINEER. PLAN QUANTITIES INDICATE AN AVERAGE APPLICATION RATE OF 0.34 LITERS PER SQUARE METER OF TACK COAT FOR ESTIMATING PURPOSES ONLY.

ITEM 407, TACK COAT FOR INTERMEDIATE COURSE

THE RATE OF APPLICATION OF THE 407 TACK COAT SHALL BE SUBJECT TO ADJUSTMENT AS DIRECTED BY THE ENGINEER. PLAN QUANTITIES INDICATE AN AVERAGE APPLICATION RATE OF 0.23 LITERS PER SQUARE METER OF TACK COAT FOR ESTIMATING PURPOSES ONLY.

ITEM 604, CATCH BASIN NO. 2-2B, AS PER PLAN

CATCH BASINS SHALL BE CONSTRUCTED IN CONFORMANCE WITH ITEM 604 EXCEPT THAT THE GRATES SHALL BE NEENAH NO R-4859-C OR EAST JORDAN NO. 6730-2 OR APPROVED EQUALS.

ITEM 660, SODDING, UNSTAKED

SODDING SHALL BE APPLIED TO ALL AREAS OF EXPOSED SOIL BETWEEN THE RIGHT-OF-WAY LINES, AND WITHIN THE CONSTRUCTION LIMITS FOR AREAS OUTSIDE THE RIGHT-OF-WAY LINES COVERED BY THE WORK AGREEMENT OR SLOPE EASEMENT. QUANTITY CALCULATIONS FOR ITEM 660, SODDING, UNSTAKED, ARE BASED ON THESE LIMITS.

MAINTENANCE OF TRAFFIC LIMITATIONS

THE CONTRACTOR WILL NOT BE PERMITTED TO IMPLEMENT THE MAINTENANCE OF TRAFFIC PLANS, AS SHOWN ON SHEET NUMBERS 10 THROUGH 13 OF 49, UNTIL APRIL 16, 2000.

NO LANE CLOSURES OF ANY TYPE WILL BE PERMITTED BETWEEN NOVEMBER 15, 1999 AND APRIL 16, 2000.

PRIOR TO NOVEMBER 15, 1999 SHORT TERM LANE CLOSURES IN ACCORDANCE WITH MT-97.10 MAY BE IMPLEMENTED TO PERFORM PRELIMINARY WORK.

GENERAL NOTES

LAK-528-11.024