

# GENERAL NOTES

LAK - 283 - 11.65

OHIO  
FHWA REGION 5  
FEDERAL PROJECT

4  
24

## ELEVATION DATUM

ALL ELEVATIONS ARE BASED ON USGS DATUM.

## ROUNDING OF CORNERS SHOWN ON CROSS SECTIONS

ROUNDING OF CORNERS SHOWN ON CROSS SECTIONS: THE ROUNDED CORNERS SHOWN ON THE TYPICAL SECTIONS, APPLY TO ALL CROSS SECTIONS EVEN THOUGH OTHERWISE SHOWN ON THESE PLANS.

## UNDERGROUND UTILITIES

UNDERGROUND UTILITIES: THE LOCATIONS OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS OF THE UTILITY AS REQUIRED BY SECTION 153.64 ORC.

## UTILITY OWNERSHIP

UTILITY OWNERSHIP: THE FOLLOWING UTILITIES AND OWNERS ARE LOCATED WITHIN THE WORK LIMITS OF THIS PROJECT:

CLEVELAND ELECTRIC ILLUMINATING  
305 ST. CLAIR AVE. NW RM 261  
CLEVELAND, OHIO 44113  
TELE. # 216-479-4489

EAST OHIO GAS CO.  
1201 E. 55TH. ST.  
CLEVELAND, OHIO 44103  
TELE. # 216-736-6667

OHIO BELL TELEPHONE  
16223 DETROIT AVE.  
4TH FLOOR SERVICE DEPT.  
LAKEWOOD, OHIO 44107

OHIO WATER SERVICE - LAKE ERIE WEST DIST.  
8644 STATION ST.  
PO BOX 539  
MENTOR, OHIO 44061 - 0539  
TELE. # 216-255-3421

TCI CABLEVISION OF OHIO INC.  
11764 GIRDLED ROAD  
PAINESVILLE, OHIO 44077  
TELE. # 216-354-8000

## CONTINGENCY QUANTITIES

CONTINGENCY QUANTITIES: THE CONTRACTOR SHALL NOT ORDER MATERIALS OR PERFORM WORK LISTED IN THE GENERAL SUMMARY 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 AT THE ENGINEER'S DISCRETION SHALL BE MADE A MATTER OF RECORD BY INCORPORATION INTO THE FINAL CHANGE ORDER GOVERNING COMPLETION OF THIS PROJECT.

## WIDENING EXISTING BERMS

WIDENING EXISTING BERMS: PORTIONS OF THE EXISTING BERM ON THIS PROJECT SHALL BE BUILT UP AND GRADED TO THE WIDTH AND SLOPES INDICATED ON THE TYPICAL SECTIONS. THE EXISTING BERM SHALL BE PREPARED AS REQUIRED IN SPEC. 201.04. ALL EMBANKMENT SHALL BE PLACED AND COMPACTED IN ACCORDANCE WITH SPEC. 203.09 EXCEPT THAT THE REQUIREMENTS FOR MOISTURE, DENSITY CONTROL, AND BENCHING ARE HEREBY WAIVED FOR WIDENED BERMS WHICH DO NOT SUPPORT ANY PORTION OF NEW PAVEMENT OR SHOULDER. ALL OF THE ABOVE PROVISIONS SHALL BE CONSIDERED INCIDENTAL TO THE NORMAL EARTHWORK ITEMS AND SHALL NOT BE PAID FOR SEPARATELY.

## LOCATION OF GUARDRAIL

LOCATION OF GUARDRAIL: THE LOCATIONS OF GUARDRAIL RUNS, AS SHOWN IN THESE PLANS, ARE SUBJECT TO ADJUSTMENT PRIOR TO FINAL ACCEPTANCE. THE ENGINEER SHALL BE SATISFIED THAT ALL INSTALLATIONS WILL AFFORD MAXIMUM PROTECTION FOR TRAFFIC.

## SEEDING

SEEDING: QUANTITIES FOR SEEDING ARE CALCULATED FOR THE SOIL AREAS BETWEEN THE RIGHT-OF-WAY LINES, AND WITHIN THE WORK LIMITS FOR AREAS OUTSIDE THE RIGHT-OF-WAY LINES COVERED BY WORK AGREEMENT OR SLOPE EASEMENT.

## WATERING PERMANENT SEEDED AREAS

WATERING PERMANENT SEEDED AREAS: THE FOLLOWING ESTIMATED QUANTITIES ARE TO BE USED AS DIRECTED BY THE ENGINEER TO PROMOTE GROWTH AND TO CARE FOR THE PERMANENT SEEDED AREAS, AS PER 659.09.

659 WATER

3 M GAL.

## GUARDRAIL REPLACEMENT

NO HAZARD SHALL BE LEFT UNPROTECTED EXCEPT FOR THE ACTUAL TIME NECESSARY TO REMOVE, GRADE AND REINSTALL GUARDRAIL IN A CONTINUOUS OPERATION. THE REMOVAL OF ALL GUARDRAIL SHALL AT ALL TIMES BE AS DIRECTED BY THE ENGINEER. NO GUARDRAIL SHALL BE REMOVED UNTIL THE REPLACEMENT MATERIAL IS ON THE SITE, READY FOR INSTALLATION. FAILURE TO COMPLY WITH THIS REQUIREMENT SHALL BE DEEMED SUFFICIENT CAUSE TO ORDER WORK SUSPENDED ON THIS PROJECT UNTIL SUCH TIME THAT THE ENGINEER IS ASSURED OF SAID COMPLIANCE.

## ITEM 203 - LINEAR GRADING, AS PER PLAN

THIS ITEM SHALL CONSIST OF EXCAVATING TOPSOIL, PLACING GRANULAR MATERIAL AND APPLYING HERBICIDE AS SPECIFIED IN THE PLANS AND IN ACCORDANCE WITH THE FOLLOWING:

ALL COLLECTED DEBRIS AND TOPSOIL, INCLUDING RHIZOMES, ROOTS AND OTHER VEGETATIVE PLANT MATERIAL SHALL BE REMOVED AND DISPOSED OF AS SPECIFIED IN SECTION 203.05 OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS.

ANY REMOVAL OF THE ABOVE ITEMS WHICH EXTEND BELOW THE PROPOSED SUBGRADE SHALL BE REPLACED WITH COMPACTABLE GRANULAR MATERIAL CONFORMING TO 203.02 AND SHALL BE PLACED TO GRADE AS DETAILED ON THE TYPICAL SECTION OR AS APPROVED BY THE ENGINEER. HERBICIDE SHALL BE TREFLAN E.C., SPIKE OR AN APPROVED EQUAL AND SHALL BE APPLIED TO THE PREPARED AREA AFTER FINAL LEVELING AND GRADING HAS BEEN COMPLETED. THE APPLICATION SHALL BE JUST PRIOR TO PAVING AND SHALL STRICTLY ADHERE TO THE MANUFACTURER'S LABEL INSTRUCTIONS.

ONLY PROPERLY LICENSED PERSONNEL SHALL APPLY HERBICIDES AS REQUIRED BY THE OHIO REVISED CODE.

ALL EQUIPMENT, MATERIALS AND LABOR REQUIRED TO PERFORM THE WORK OUTLINED ABOVE SHALL BE INCLUDED FOR PAYMENT UNDER ITEM 203, LINEAR GRADING.

START AT STA. 4+00 TO STA. 5+89.5 = 189.5 LF x 2 = 379 LF.  
STA. 6+54.5 TO STA. 8+00 = 145.5 LF x 2 = 291 LF.  
TOTAL: 379 + 291 = 670 LF OR 7 STA.

## ITEM 404 - ASPHALT CONCRETE, AC-20, UNDER GUARDRAIL

THIS ITEM SHALL CONSIST OF PAVING UNDER GUARDRAIL AS SPECIFIED IN THE PLANS AND IN ACCORDANCE WITH THE FOLLOWING:

PAVING SHALL CONSIST OF PLACING ITEM 404 TO THE DEPTH SPECIFIED USING ONE OF THE FOLLOWING METHODS:

METHOD A: 1) SET GUARDRAIL POSTS  
2) PLACE ITEM 404

METHOD B: 1) PLACE ITEM 404  
2) BORE ASPHALT AT POST LOCATIONS (SEE NOTE 1)  
3) SET GUARDRAIL POSTS  
4) PATCH AROUND POSTS (SEE NOTE 2)

NOTE 1: BORING OF ASPHALT MAY BE EXCLUDED IF STEEL POSTS ARE TO BE USED.

NOTE 2: THE MATERIAL USED FOR PATCHING SHALL BE A BITUMINOUS CONCRETE APPROVED BY THE ENGINEER. PATCHING AREAS SHALL BE COMPACTED USING EITHER HAND OR MECHANICAL METHODS. FINISHED SURFACES SHALL BE SMOOTH AND SLOPED TO DRAIN AWAY FROM THE POSTS.

ALTERNATE METHODS MAY BE USED WITH PRIOR APPROVAL OF THE ENGINEER.

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 404 - ASPHALT CONCRETE, AC-20, UNDER GUARDRAIL.

## PART-WIDTH CONSTRUCTION

BECAUSE OF THE NECESSITY OF BUILDING

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 ON CENTERLINE IN THE BASE COURSES. LONGITUDINAL JOINTS SHALL BE LAPPED AS SHOWN ON STANDARD CONSTRUCTION DRAWING BP-3.1.

## CLEARING AND GRUBBING

CLEARING & GRUBBING: THIS WORK SHALL CONSIST OF CLEARING, GRUBBING, SCALPING, AND REMOVING AND DISPOSING OF ALL VEGETATION, DEBRIS, AND OTHER PROTRUDING OBSTRUCTIONS NOT DESIGNATED TO REMAIN WITHIN THE LIMITS OF RIGHT-OF-WAY OR EASEMENT AREA. WORK SHALL BE IN ACCORDANCE WITH ITEM 201 OF THE C & M SPECIFICATIONS. PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS REQUIRED TO PERFORM THIS WORK SHALL BE INCIDENTAL TO THE LUMP SUM PRICE BID FOR ITEM 201 CLEARING AND GRUBBING.

## ITEM 407 - TACK COAT

TACK COAT: THE RATE OF APPLICATION OF ITEM 407 TACK COAT SHALL BE SUBJECT TO ADJUSTMENT, AS DIRECTED BY THE ENGINEER. THE APPLICATION RATE OF 0.1 GAL. PER SQUARE YARD IS USED FOR ESTIMATING PURPOSES ONLY.

## ITEM 304 - AGGREGATE BASE, AS PER PLAN

THE ONLY SLAG MATERIAL PERMITTED FOR THIS ITEM SHALL BE CRUSHED AIRCOOLED BLAST FURNACE SLAG, A MIXTURE OF CRUSHED AND GRANULATED SLAGS, OR OPEN HEARTH SLAG FROM APPROVED SOURCES ON FILE AT THE LABORATORY.

ALL MATERIALS OR BLENDED MATERIALS SHALL MEET THE GRADATION REQUIREMENTS OF 304.02.

ANY GRANULATED SLAG MATERIAL USED SHALL MEET THESE GRADATION REQUIREMENTS IN LIEU OF 703.08.

## MAINTAINING TRAFFIC

ITEM 614 - MAINTAINING TRAFFIC: THE CONTRACTOR SHALL MAINTAIN TRAFFIC AT ALL TIMES IN ACCORDANCE WITH THE REQUIREMENTS OF SPEC. 614. TWO-WAY TRAFFIC SHALL BE MAINTAINED AT ALL TIMES BY USE OF THE EXISTING PAVEMENT, THE COMPLETED PROPOSED PAVEMENT, AND ITEM 615 TEMPORARY PAVEMENTS, AS SHOWN IN PHASE-I AND PHASE II OF SHEETS NO. 9 & 10. OTHER REQUIREMENTS OF *PLAN SHEET 11A* SHALL ALSO BE FOLLOWED. PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS REQUIRED TO PERFORM THIS WORK, EXCEPT WHERE ITEMIZED AND BID SEPARATELY, SHALL BE INCIDENTAL TO THE LUMP SUM PRICE BID FOR ITEM 614 - MAINTAINING TRAFFIC.

## MAINTENANCE OF TRAFFIC - NOTIFICATION

THE CONTRACTOR SHALL NOTIFY THE OHIO DEPARTMENT OF TRANSPORTATION, THE CITY OF MENTOR, POLICE DEPARTMENT, FIRE DEPARTMENT, SERVICE DEPARTMENT AND ENGINEER, IN WRITING, FOURTEEN (14) DAYS PRIOR TO BEGINNING WORK.

## TEMPORARY SOIL EROSION AND SEDIMENT CONTROL

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

ITEM 207 STRAW OR HAY BALES 50 EACH  
ITEM 207 FILTER FABRIC FENCE 250 LIN. FT.

## ITEM 207 - FILTER FABRIC FENCE

### MATERIALS

FILTER FABRIC SHALL MEET THE REQUIREMENT OF ITEM 207.02.

### CONSTRUCTION

THE BOTTOM OF THE FENCE SHALL BE BURIED 6" BELOW THE GROUND. THE FENCE SHALL BE HIGH ENOUGH TO RETAIN SEDIMENT LADEN WATER AND ADEQUATELY SUPPORTED TO PREVENT COLLAPSE OR BURSTING. THE GROUND ELEVATION OF THE FENCE SHALL BE HELD CONSTANT EXCEPT THAT THE END ELEVATIONS SHALL BE RAISED TO PREVENT FLOW AROUND THE END OF THE FENCE.

### PAYMENT

THE COST OF ALL MATERIALS, CONSTRUCTION, MAINTENANCE AND REMOVAL REQUIRED SHALL BE PAID FOR UNDER ITEM 207 LIN. FT. FILTER FABRIC FENCE.

## ITEM 622 - PORTABLE CONCRETE BARRIER - ROADWAY

THE STANDARD BARRIER AS SHOWN ON STANDARD CONSTRUCTION DRAWING MC-9.2 SHALL APPLY TO ALL ROADWAY BARRIER. THE BARRIER SECTIONS SHALL BE PINNED TOGETHER. PAYMENT SHALL BE INCLUDED UNDER THE UNIT PRICE BID PER LINEAR FOOT OF ITEM 622 - PORTABLE CONCRETE BARRIER, 32".

## ITEM 622 - PORTABLE CONCRETE BARRIER - STRUCTURE

THE BARRIER SHALL BE PORTABLE CONCRETE BARRIER AS DETAILED ON SHEETS NO. 9 & 10. THE BARRIER SHALL BE ANCHORED TO THE BRIDGE. PAYMENT SHALL BE INCLUDED UNDER THE UNIT PRICE BID PER LINEAR FOOT OF ITEM 622 - PORTABLE CONCRETE BARRIER, 32", *BRIDGE MOUNTED*.

## ITEM 614 - BARRIER REFLECTORS

THESE BARRIER REFLECTORS AND THEIR MOUNTINGS SHALL CONFORM TO SUPPLEMENTAL SPECIFICATION 802, EXCEPT THAT THE SPACING OF THE REFLECTORS SHALL BE HALF THE DISTANCE SPECIFIED IN PROPOSAL NOTE.

## ITEM 611 - REINFORCED CONCRETE APPROACH SLAB (T=12"), AS PER PLAN

THE REINFORCING STEEL FOR THE APPROACH SLABS OF THIS STRUCTURE SHALL BE EPOXY COATED IN CONFORMANCE WITH 509. TWO SEPARATE THICKNESSES OF CLEAR OR OPAQUE POLYETHYLENE FILM, 705.06, SHALL BE PLACED ON THE PREPARED SUBBASE AND WHERE THE APPROACH SLAB IS TO BE CONSTRUCTED. THE POLYETHYLENE FILMS SHALL COMPLETELY COVER THE FULL LENGTH AND WIDTH OF THE SUBBASE BETWEEN THE SIDEWALL FORMS FOR THE APPROACH SLAB. MATERIALS, LABOR & INSTALLATION SHALL BE INCLUDED IN THIS ITEM FOR PAYMENT.

## CONNECTION TO EXISTING GUARDRAIL

WHENEVER IT IS NECESSARY TO CONNECT PROPOSED GUARDRAIL TO EXISTING GUARDRAIL, ONLY THE EXISTING GUARDRAIL SHALL BE CUT, DRILLED OR PUNCHED. THE CONNECTION SHALL BE MADE USING A "BEAM RAIL SPLICE" PER STANDARD CONSTRUCTION DRAWINGS GR-1.1 AND GR-1.2. PAYMENT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE RESPECTIVE GUARDRAIL RUNS.