

GENERAL NOTES

FED. RD. DIVISION	STATE	PROJECT	7
2	OHIO		277

ITEMS L-10 SODDING & I-14 PAVED GUTTER

THESE ITEMS ARE PROVIDED ON THE PLANS FOR EROSION CONTROL. THE ENGINEER SHALL CHECK AND MAKE ADJUSTMENTS IN LOCATION AND QUANTITIES FOR THESE ITEMS WHERE INDICATED BY FIELD CONDITIONS DURING CONSTRUCTION.

L-9 COMMERCIAL FERTILIZER

ALL AREAS TO BE SEEDED UNDER ITEM L-9 OR SODDED UNDER ITEM L-10 SHALL HAVE COMMERCIAL FERTILIZER 12-12-12, APPLIED AT THE RATE OF TWENTY (20) POUNDS PER 1,000 SQUARE FEET.

SEEDING AND PROTECTING

QUANTITIES FOR SEEDING ITEM L-9 ARE CALCULATED FOR ALL SOIL AREAS BETWEEN RIGHT-OF-WAY FENCE LINES. SEED SHALL BE SOWN AT THE RATE OF 3 POUNDS PER 1,000 SQUARE FEET EXCEPT AS OTHERWISE NOTED IN THE PLANS. SEEDING FORMULA FOR ALL SEEDED AREAS SHALL BE IN ACCORDANCE WITH THE FOLLOWING:

65% KENTUCKY 31 FESCUE
25% KENTUCKY BLUEGRASS
5% REDTOP
5% ALSIKIE CLOVER.

QUANTITIES FOR LOCAL ROAD SEEDING INCLUDES ALL SOIL AREA BETWEEN THE WORK LIMITS.

CENTERLINE REFERENCE MONUMENTS

MONUMENTS SHALL BE CONSTRUCTED OF CLASS "C" CONCRETE CAST-IN-PLACE IN A CIRCULAR HOLE, EIGHT INCHES IN DIAMETER AND FORTY-FOUR INCHES IN DEPTH. TOP OF CONCRETE SHALL BE FINISHED TWO INCHES BELOW GROUND LEVEL AND THE UPPER SIX INCHES PORTION OF THE CONCRETE SHALL BE FORMED. A 1/4" NAIL SHALL BE EMBEDDED IN THE WET CONCRETE AS DIRECTED BY THE ENGINEER TO MARK THE CENTERLINE AND STATION. MONUMENTS SHALL NOT BE PLACED UNTIL SEEDING IS COMPLETED.

EXISTING WATER WELLS

DUG WELLS ENCOUNTERED WITHIN THE WORK LIMITS SHALL BE FILLED WITH ROCK OR GRANULAR MATERIAL. DRILLED WELL CASING SHALL BE REMOVED TO AN ELEVATION APPROXIMATELY THREE FEET BELOW FINISHED GRADE AND COVERED WITH A PRE-CAST CONCRETE SLAB OR A LARGE ROCK. PRIOR TO CONSTRUCTION OF EMBANKMENT, THE CONTRACTOR SHALL REMOVE ANY MASONRY SURROUNDING A WELL WITHIN THREE FEET OF FINISHED GRADE. PUMPS AND OTHER APPURTENANCES SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF BY HIM. THE COST OF FILLING OR CAPPING OF WELLS SHALL BE INCLUDED IN THE UNIT PRICE BID PER CUBIC YARD OF ROADWAY EXCAVATION, ITEM E-1.

SODDING

SOD DEPTH "d" AS NOTED ON THE PLANS IS THE VERTICAL DISTANCE FROM THE DITCH BOTTOM TO THE POINT ON THE DITCH SLOPE TO WHICH SODDING IS PLACED. SOD WIDTH "w" AS NOTED ON THE PLANS IS THE WIDTH OF SOD REQUIRED PER LINEAL FOOT. ALL AREAS TO BE SODDED SHALL BE LOOSENEED TO A DEPTH NOT LESS THAN TWO INCHES JUST PRIOR TO LAYING SOD. COST SHALL BE INCLUDED IN THE PRICE BID PER SQUARE YARD OF SODDING. A QUANTITY OF 1,200 SQUARE YARDS OF ITEM L-10 SODDING HAS BEEN PROVIDED IN THE GENERAL SUMMARY TO BE USED FOR EROSION CONTROL WHERE AND AS DIRECTED BY THE ENGINEER.

REMOVALS

ALL ITEMS MARKED FOR REMOVAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF BY HIM. WHERE PIPE IS MARKED FOR REMOVAL WITH HEADWALLS AND/OR CATCH BASINS INVOLVED, THE COST OF SUCH REMOVAL SHALL BE INCLUDED IN THE PRICE BID PER LINEAR FOOT FOR ITEM E-12 PIPE REMOVAL.

PLACING SOD IN DITCHES

ALL SOD PLACED IN DITCHES SHALL BE LAID WITH THE LONG EDGES OF THE STRIPS PERPENDICULAR TO THE FLOW LINE OF THE DITCH. SUCCESSIVE STRIPS SHALL BE NEATLY MATCHED AND ALL JOINTS STAGGERED OR BROKEN. THE SOD SHALL BE STAKED SECURELY WITH STAKES PLACED ON MAXIMUM TWO (2) FT. CENTERS IN ROWS NOT MORE THAN TWO (2) FEET APART. STAKES IN ADJACENT ROWS SHALL BE STAGGERED. THE STAKES SHALL BE WOOD FROM 1/2" x 3/4" x 12" TO 1" x 1" x 24", AS REQUIRED TO HOLD THE SOD, AND SHALL BE DRIVEN FLUSH WITH THE TOP OF THE SOD.

EXCAVATION FOR STRUCTURES

AN ITEM E-2 EXCAVATION FOR STRUCTURES HAS BEEN INCLUDED IN THE COMPUTATION SHEET TO PROVIDE FOR ALL HEADWALL EXCAVATION UNDER ITEM I-2 STORM SEWERS.

ESTIMATED QUANTITIES

SPECIFIC LOCATIONS AND USAGE OF ESTIMATED QUANTITIES SET UP ON THIS PLAN TO BE USED "AS DIRECTED BY THE ENGINEER" SHALL BE MADE A MATTER OF RECORD BY INCORPORATION INTO THE FINAL CHANGE ORDER GOVERNING COMPLETION OF THIS PROJECT.

REPLACEMENTS

THE CONTRACTOR SHALL REPLACE AT HIS OWN EXPENSE ANY ITEM NOT SPECIFICALLY LISTED FOR REMOVAL THAT IS DAMAGED OR DESTROYED BY HIS OPERATIONS.

TEMPORARY DRAINAGE

TEMPORARY DRAINAGE WILL BE REQUIRED FOR THE PIPE UNDERDRAINS AND SUBBASE DURING CONSTRUCTION OF THIS SECTION. PAYMENT FOR WHICH IS INCLUDED IN THE PRICE BID PER LINEAR FOOT FOR ITEM I-4 UNDERDRAIN.

GRATE ELEVATIONS

THE FLOW LINE OF GRATE ELEVATIONS SHOWN FOR I-8 #4 CATCH BASIN AND I-8 #5 CATCH BASIN IS THE LOWEST POINT ON THE GRATE.

PIPE UNDERDRAINS

THE LOCATION OF THE TRANSVERSE PIPE UNDERDRAINS LOCATED AT THE POINTS CUT TO FILL AND FILL TO CUT MAY BE REVISED SLIGHTLY DURING CONSTRUCTION TO ASSURE THAT THE UNDERDRAINS WILL BE PLACED IN CUT.

PIPE SPECIALS

I-5 PIPE SPECIALS HAVE BEEN COMPUTED ON THE BASIS OF 4' - 0". EXCEPT PIPE UNDERDRAIN WHERE 12" HAS BEEN OMITTED FOR EACH.

EXISTING DRAINAGE

IT IS ANTICIPATED THAT SOME EXISTING DRAINS OTHER THAN THOSE CARRYING DOMESTIC WASTE WILL BE INTERCEPTED AND SEVERED BY THE PROPOSED ROADWAY AND CHANNEL EXCAVATION IN ANY SUCH CASE A SECTION OF THE PIPE SO SEVERED WILL BE REMOVED TO MAKE WAY FOR THE NECESSARY EXCAVATION. IF THE REMAINING PIPE FLOWS AWAY FROM THE EXCAVATION AND THE PLANS DO NOT INDICATE THAT IT IS TO BE USED AS AN OUTLET, IT SHALL BE BLOCKED AT ITS UPPER END IN ACCORDANCE WITH THE PROVISIONS OF ITEM 2.04. PAYMENT FOR PLUGGING IS INCLUDED IN THE UNIT PRICE BID FOR ITEM E-1 ROADWAY EXCAVATION. IF THE PIPE FLOWS TOWARD THE DITCH EXCAVATION, THE TILE SHALL BE PRESERVED AND A PROPER OUTLET PROVIDED.

THE FOLLOWING QUANTITIES HAVE BEEN SET UP IN THE GENERAL SUMMARY TO BE USED FOR THE ABOVE PURPOSE AS DIRECTED BY THE ENGINEER.

I-3	6"	ROADWAY DRAINAGE	400	LIN. FT.
I-3	8"	"	400	LIN. FT.
I-3	8"	PIPE OUTLETS FOR ROADWAY DRAINAGE	100	LIN. FT. - SEC. M 6.4 (c)
I-3	10"	"	50	LIN. FT. " "
I-3	12"	"	50	LIN. FT. " "
I-2	8"	UNDER PAVEMENT OR APPROACHES	1200	LIN. FT. - SEC. M 6.5 (b) OR M 6.6 (b)
I-2	12"	"	600	LIN. FT. " "

THE AMOUNT AND LOCATION OF SUCH MATERIAL SHALL BE RECORDED AS USED AND SHALL BE SUBMITTED WITH FINAL ESTIMATE.

EROSION CONTROL AT HEADWALLS

AN 18" WIDE STRIP OF SOD SHALL BE PLACED ALONG THE BACK AND BOTH ENDS OF EACH STANDARD HEADWALL TYPE A, B AND C TO PREVENT EROSION. THE QUANTITY OF SODDING REQUIRED TO PREVENT EROSION AT THE HEADWALLS IS INDICATED IN EACH OF THE CULVERT ESTIMATED QUANTITIES.

SIGHT DISTANCE

BASIS FOR MEASURING SIGHT DISTANCE SHALL BE 4.0 FEET FOR HEIGHT OF EYE AND ZERO FEET FOR HEIGHT OF OBJECT. THE MINIMUM STOPPING SIGHT DISTANCE ON THIS PROJECT IS 600 FEET.

MAINTAINING LOCAL TRAFFIC

AGGREGATE AND CHLORIDE REQUIRED FOR MAINTENANCE OF LOCAL TRAFFIC, IN ACCORDANCE WITH THE PROVISIONS OF SECTION 6-4.05 OF THE SPECIFICATIONS, IS PROVIDED IN THE SUMMARY OF QUANTITIES IN THE FOLLOWING AMOUNTS:
150 CU. YDS. TRAFFIC COMPACTED SURFACE COURSE ITEM T-10
3 TONS CALCIUM CHLORIDE ITEM M-10
REQUIREMENTS FOR HARDNESS AND SOUNDNESS WILL BE WAIVED FOR AGGREGATE USED FOR MAINTAINING LOCAL TRAFFIC.

CONSTRUCTION LAYOUT STAKES

SEE NOTE IN PROPOSAL DESCRIBING THE WORK INCLUDED IN THIS LUMP SUM PAY ITEM.

EMBANKMENT

IN ADDITION TO THE REQUIREMENTS OF SEC. E-1.08 (f) THE MOISTURE CONTENT OF ALL EMBANKMENT MATERIALS THAT DISPLAY PRONOUNCED ELASTICITY OR DEFORMATION UNDER THE ACTION OF CONSTRUCTION EQUIPMENT SHALL NOT EXCEED OPTIMUM AT THE TIME OF COMPACTION.

INTERSTATE HIGHWAY SIGNS

TWO SIGNS ARE SET UP IN THE GENERAL SUMMARY FOR EXISTING S.R. 615 WHICH CROSSES THIS INTERSTATE PROJECT. THE PROJECT ENGINEER SHALL SELECT THE LOCATION FOR ERECTING THE SIGNS, WHICH LOCATION SHALL BE JUST OUTSIDE THE CONSTRUCTION LIMITS, WHERE THE SIGN SHALL BE MOST CONSPICUOUS.

LAKE COUNTY LAK - 1-697 SEPTIC TANKS

WHERE SEPTIC TANKS, CESSPOOLS OR LEACHING BASINS ARE ENCOUNTERED THEY MUST BE CLEANED, AND MATERIAL REMOVED FROM R/W LIMITS, PROPERLY BACKFILLED, OR REMOVED IF DIRECTED BY THE ENGINEER AS PROVIDED IN THE STANDARD SPECIFICATIONS. PAYMENT FOR SAME SHALL BE MADE UNDER ITEM E-1, ROADWAY EXCAVATION. REMOVAL OF THE TILE FIELDS ADJOINING THESE FEATURES IS NOT REQUIRED UNLESS THEY WOULD ALLOW FLOW OF WATER UNDER THE EMBANKMENT.

LINE DATA CALCULATIONS FOR APPROACHES LENGTH OF WORK ON APPROACHES

BEGIN WORK	STA. 374 + 00	
BEGIN PROJECT	STA. 375 + 00 BK. + STA. 10 + 99.63 AH.	
LENGTH		100.00 LIN. FT.
GARFIELD ROAD	STA. 24 + 00 TO STA. 39 + 50	1550.00 LIN. FT.
S.R. 615	STA. 24 + 00 TO STA. 40 + 85	1685.00 LIN. FT.
CHILLICOTHE ROAD	STA. 21 + 50 TO STA. 35 + 50	1400.00 LIN. FT.
LITTLE MOUNTAIN ROAD	STA. 6 + 00 TO STA. 15 + 00	900.00 LIN. FT.
HART ROAD	STA. 25 + 50 TO STA. 35 + 00	950.00 LIN. FT.
WORK FOR STORM SEWER RIGHT	STA. 126 + 00	700 ± LIN. FT.
END PROJECT	STA. 193 + 50	
END WORK	STA. 194 + 50	
LENGTH		100.00 LIN. FT.
LENGTH OF APPROACHES		7,385 LIN. FT.

TRAFFIC MAINTENANCE

S.R. 615 - TWO-WAY TRAFFIC SHALL BE MAINTAINED ON S.R. 615 AT ALL TIMES. A TEMPORARY RUNAROUND (ITEM S-15) USING CLASS B PAVEMENT HAS BEEN PROVIDED FOR THIS PURPOSE. THE TEMPORARY RUNAROUND WILL BE BUILT TO THE LINES AND GRADE SHOWN ON THE PLAN. COST OF THE ABOVE AND COST OF TEMPORARY DRAINAGE STRUCTURES WILL BE INCLUDED IN THE ITEM S-15 LUMP SUM. AFTER CONSTRUCTION IS COMPLETE THE CONTRACTOR WILL REMOVE THE RUNAROUND IN ACCORDANCE WITH ITEM S-15.

GARFIELD ROAD, CHILLICOTHE ROAD, LITTLE MOUNTAIN ROAD AND HART ROAD WILL BE CLOSED TO TRAFFIC DURING CONSTRUCTION OF THE BRIDGES AND APPROACHES. HOWEVER LITTLE MOUNTAIN ROAD SHALL REMAIN OPEN TO TRAFFIC UNTIL CONSTRUCTION OF CHILLICOTHE ROAD AND HART ROAD IS COMPLETE. LOCAL TRAFFIC SHALL BE MAINTAINED AT ALL TIMES IN ACCORDANCE WITH SEC. 6-4.05 OF THE SPECIFICATIONS, AND IT SHALL BE UNDERSTOOD TO INCLUDE MAINTAINING ACCESS TO ADJACENT PROPERTIES AFFECTED BY ANY OF THE CONSTRUCTION OPERATIONS.

GRADING TOLERANCES

FOR AREAS IN FRONT OF RESIDENCES AND SIMILAR AREAS SPECIFICALLY INDICATED BELOW, THE SEED BED SHALL BE PREPARED TO PROVIDE A SMOOTH SURFACE. ALL STONES LARGER THAN ONE INCH IN DIAMETER SHALL BE REMOVED FROM THE SURFACE OF THE SEED BED. HAND RAKING WILL BE REQUIRED IN AREAS INACCESSIBLE TO MACHINES AND HAND RAKING MAY BE REQUIRED, IF DIRECTED BY THE ENGINEER, IN ALL THE AFOREMENTIONED AREAS IF MACHINES USED DO NOT PROVIDE RESULTS EQUIVALENT TO RESULTS OBTAINED BY HAND RAKING. COST OF THIS ADDITIONAL WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ROADWAY EXCAVATION, ITEM E-1. THE ABOVE NOTE SHALL BE CONSIDERED TO BE PARTICULARLY APPLICABLE IN THE FOLLOWING AREAS:

STA. 35+50 TO STA. 40+00	RIGHT	S.R. 615
STA. 21+50 TO STA. 26+00	RIGHT	CHILLICOTHE ROAD
STA. 6+00 TO STA. 7+00	LEFT	LITTLE MOUNTAIN ROAD
STA. 32+00 TO STA. 34+50	LT. & RT.	HART ROAD
STA. 38+50 TO STA. 40+00	LEFT	S.R. 615