

GENERAL NOTES

FED. NO. DIVISION	STATE	PROJECT	10 379
2	OHIO		

LAKE COUNTY
LAK-2-10.35

ITEMS L-10 SODDING, I-10 SLOPE & CHANNEL PROTECTION & 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 AS SHOWN ON THE CROSS SECTIONS.

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. FOR LOCATIONS OF MONUMENTS, SEE SHEETS NO. 362 & 363.

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, FOR PAYMENT.

SODDING

SOD DEPTH "4" AS NOTED ON THE PLANS IS THE VERTICAL DISTANCE FROM THE DITCH BOTTOM TO THE POINT ON THE DITCH SLOPES 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 FOR PAYMENT IN THE PRICE BID PER SQUARE YARD OF SODDING. A QUANTITY OF 600 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.

ROAD MIX QUANTITIES

THE QUANTITY OF BITUMINOUS MATERIAL ESTIMATED FOR THE BITUMINOUS ROAD MIX SURFACE COURSE HAS BEEN CALCULATED ON THE LINE SHEETS FOR USE WITH STONE OR GRAVEL AGGREGATE. IF THE CONTRACTOR ELECTS TO USE SLAG AGGREGATE, BITUMINOUS MATERIAL FOR THE ROAD MIX SHALL BE APPLIED AT THE RATE OF 1.1 GALLONS PER SQUARE YARD WHICH WILL REQUIRE AN ADDITIONAL QUANTITY OF APPROXIMATELY 3224 GALLONS. THIS ADDITIONAL QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY AND IS REFLECTED IN THE GRAND TOTAL. PAYMENT WILL BE MADE ON FINAL MEASUREMENT.

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 LINEAL FOOT FOR ITEM E-12, PIPE REMOVED.

EXPANSION JOINTS

ALTHOUGH SPECIFIC LOCATIONS OF CERTAIN EXPANSION JOINTS HAVE BEEN DETAILED ON THIS PLAN, NO WAIVER OF THE SPECIFICATIONS IS INTENDED AND EXPANSION JOINTS SHALL BE PROVIDED AT ALL MAJOR STRUCTURES AS REQUIRED BY STANDARD CONSTRUCTION DRAWING T. J.

EXCAVATION FOR STRUCTURES

AN ITEM E-2 EXCAVATION FOR STRUCTURES HAS BEEN INCLUDED IN THE COMPUTATIONS 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.

GRADING TOLERANCES

FOR AREAS BETWEEN CURB AND SIDEWALK AND 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:

HENDRICKS ROAD:	STATION 21+00 TO 22+75 RT.
	STATION 23+00 TO 28+50 LT.
	STATION 33+25 TO 34+80 RT.
	STATION 33+65 TO 36+00 LT.
	STATION 36+50 TO 38+15 RT.
	STATION 38+00 TO 39+25 LT.
FRONTAGE ROAD	STATION 94+50 TO 97+00 RT.
BLACKBROOK ROAD	STATION 38+00 SURVEY @ TO 2+75 RT.

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.

MANHOLE CASTING

MANHOLE CASTINGS LOCATED IN SLOPES SHALL BE SET SO THAT THE COVER WILL CONFORM WITH THE PLANE OF THE SLOPED SURFACE. (ALLOWABLE MAX. SLOPE=4:1)

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.

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 FLOCKED AT ITS UPPER END IN ACCORDANCE WITH THE PROVISIONS OF ITEM E-204. 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.

1-3	6"	ROADWAY DRAINAGE	400	LIN. FT.
1-3	8"	"	400	LIN. FT.
1-3	8"	PIPE OUTLETS FOR ROADWAY DRAINAGE	100	LIN. FT. - SEC. M 6.4 (c)
1-3	10"	"	50	LIN. FT. " "
1-3	12"	"	50	LIN. FT. " "
1-2	8"	UNDER PAVEMENT OR APPROACHES	1200	LIN. FT. - SEC. M 6.5 (b) OR M 6.8 (b)
1-2	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 INCLUDED 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 INCHES FOR HEIGHT OF OBJECT. THE MINIMUM STOPPING SIGHT DISTANCE ON THIS PROJECT IS 600 FEET.

I-22 SUBBASE GRADING

I-22 SUBBASE GRADING A OR B, AS PER PLAN, MATERIAL FOR THIS ITEM SHALL MEET THE REQUIREMENTS FOR I-22 GRADING A OR B EXCEPT THAT FOR BOTH GRADINGS THE PERCENT PASSING NO. 200 SIEVE SHALL NOT EXCEED TEN.

MAINTAINING LOCAL TRAFFIC

AGGREGATE AND CHLORIDE REQUIRED FOR MAINTENANCE OF LOCAL TRAFFIC, IN ACCORDANCE WITH THE PROVISIONS OF SECTION G-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.

EMBANKMENT

IN ADDITION TO THE REQUIREMENTS OF SEC. E-1.03, 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.

SEPTIC TANKS

WHERE SEPTIC TANKS, CESSPOOLS OR LEACHING BASINS ARE ENCOUNTERED THEY MUST BE CLEANED AND MATERIAL REMOVED FROM R/W LIMITS, PROPERLY BACK-FILLED 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

BEGIN WORK	STA. 446 + 00	
BEGIN PROJECT	STA. 446 + 50	
LENGTH		50 LIN. FT.
HENDRICKS ROAD		
BEGIN WORK	STA. 21 + 00	
END WORK	STA. 39 + 25	
LENGTH		1825 LIN. FT.
HEISLEY ROAD		
BEGIN WORK	STA. 18 + 50	
END WORK	STA. 40 + 00	
LENGTH		2150 LIN. FT.
NIKE SITE ROAD		
BEGIN WORK	STA. 5 + 10.05	
END WORK	STA. 7 + 25	
LENGTH		214.95 LIN. FT.
END PROJECT		
END WORK	STA. 651 + 00	
LENGTH	STA. 651 + 95	95 LIN. FT.
TOTAL LENGTH OF APPROACHES		
		4334.95 LIN. FT.

MAINTENANCE OF TRAFFIC

NIKE SITE ROAD TRAFFIC SHALL BE MAINTAINED TO AND FROM EXISTING OR RELOCATED BLACKBROOK ROAD AT ALL TIMES BY MEANS OF PART WIDTH CONSTRUCTION ON THIS APPROACH ROAD. HENDRICKS ROAD MAY BE CLOSED TO TRAFFIC FOR A PERIOD NOT TO EXCEED 270 CONSECUTIVE CALENDAR DAYS DURING THE CONSTRUCTION OF THE BRIDGE. LOCAL TRAFFIC SHALL BE MAINTAINED AT ALL TIMES IN ACCORDANCE WITH SEC. G 4.05 OF THE OHIO STANDARD SPECIFICATIONS, AND IT SHALL BE UNDERSTOOD TO INCLUDE MAINTAINING ACCESS TO ADJACENT PROPERTIES AFFECTED BY ANY OF THE CONSTRUCTION OPERATIONS.

HEISLEY ROAD - TWO-WAY TRAFFIC SHALL BE MAINTAINED ON HEISLEY ROAD DURING THE CONSTRUCTION OF THE BRIDGE AND APPROACHES. A TEMPORARY RUNAROUND (ITEM S-15) USING CLASS B PAVEMENT HAS BEEN PROVIDED FOR THIS PURPOSE. TEMPORARY RUNAROUND WILL BE BUILT TO THE LINES AND GRADES SHOWN ON THE PLANS. COST OF THE ABOVE SHALL BE INCLUDED IN ITEM S-15 LUMP SUM TEMPORARY RUNAROUND. AFTER CONSTRUCTION IS COMPLETED THE CONTRACTOR WILL REMOVE THE RUNAROUND IN ACCORDANCE WITH ITEM S-15.

TRAFFIC ON BLACKBROOK ROAD - TWO-WAY TRAFFIC SHALL BE MAINTAINED UNTIL AFTER CONSTRUCTION OF RELOCATED BLACKBROOK ROAD IS COMPLETE TO THE LINES AND GRADES SHOWN ON THE PLANS. THE CONTRACTOR'S OPERATIONS SHALL BE SCHEDULED SUCH THAT THE WORK REQUIRED TO RECONSTRUCT BLACKBROOK ROAD SHALL BE COMPLETED PRIOR TO WORK ON S.R. 2 AT THIS LOCATION.

FILLING BASEMENTS OUTSIDE NORMAL WORK LIMITS

IN ADDITION TO THE GENERAL REMOVAL REQUIREMENTS OF SEC. E-1.03 (c), ALL BASEMENTS OR PORTIONS THEREOF WITHIN THE RIGHT-OF-WAY ON THIS PROJECT BUT BEYOND THE NORMAL SLOPE LINES SHALL BE FILLED TO SURROUNDING GROUND ELEVATION AS DIRECTED BY THE ENGINEER. PRIOR TO FILLING WITHIN THIS AREA, ALL DEBRIS SHALL BE REMOVED AND THE BASEMENT FLOORS AND WALLS SHALL BE BROKEN UP OR REMOVED AS PROVIDED UNDER SEC. E-1.03 (c) AND ALL HOUSE DRAINS NOT REMOVED SHALL BE PLUGGED AS PROVIDED ELSEWHERE IN THESE NOTES.

WHERE BASEMENTS EXTEND BEYOND THE RIGHT-OF-WAY LINE, BUT ARE WITHIN SLOPE EASEMENT OR WORK AGREEMENT LINES, THEY SHALL BE FILLED TO THE ELEVATION OF THE SURROUNDING GROUND AS DIRECTED BY THE ENGINEER BUT THE REQUIREMENTS OF SEC. E-1.03 (c) FOR REMOVALS BELOW THE PROPOSED FINISHED SURFACE SHALL BE WAIVED FOR THE PORTIONS EXTENDING BEYOND THE RIGHT-OF-WAY LINE. PAYMENT FOR ALL OF THE ABOVE SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ROADWAY EXCAVATION, ITEM E-1.

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) FT. APART. STAKES IN ADJACENT ROWS SHALL BE STAGGERED. THE STAKES SHALL BE WOOD FROM 2" x 12" TO 1" x 24", AS REQUIRED TO HOLD THE SOD, AND SHALL BE DRIVEN FLUSH WITH THE TOP OF THE SOD.