

GENERAL NOTES & SUMMARY

| | | | |
|-------------------|-------|---------|------------|
| FED. RD. DIVISION | STATE | PROJECT | TYPE FUNDS |
| 2 | OHIO | | |

3
10

LAKE COUNTY
LAK-608-2.95

GENERAL

FIELD OFFICE

THE CONTRACTOR SHALL PROVIDE A SUITABLE FIELD OFFICE IN ACCORDANCE WITH SEC. S-0.01(b) HAVING A MINIMUM FLOOR-SPACE OF 150 SQUARE FEET. THE CONTRACTOR SHALL HAVE A TELEPHONE INSTALLED AND MAINTAINED DURING CONSTRUCTION OF THE PROJECT.

UTILITY ADJUSTMENT

THE CONTRACTOR SHALL NOTIFY AT LEAST 48 HOURS BEFORE BREAKING GROUND ALL PUBLIC SERVICE CORPORATIONS HAVING WIRES, POLES, PIPE, CONDUITS, MANHOLES, OR OTHER STRUCTURES THAT MAY BE AFFECTED BY THIS OPERATION INCLUDING ALL STRUCTURES THAT ARE AFFECTED AND NOT SHOWN ON THESE PLANS. ANY AND ALL WORK REQUIRED FOR PUBLIC OR PRIVATE UTILITIES WILL BE DONE BY AND AT THE EXPENSE OF THEIR RESPECTIVE OWNERS, UNLESS OTHERWISE NOTED ON THESE PLANS.

UTILITY OWNERSHIP

THE CLEVELAND ELECTRIC ILLUMINATING CO. CLEVELAND, O.
THE OHIO BELL TELEPHONE CO. CLEVELAND, O.

REPLACEMENT

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

ELEVATION DATUM

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

ESTIMATED QUANTITIES

SPECIFIC LOCATIONS AND USAGE OF ESTIMATED QUANTITIES SET UP IN THESE PLANS 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.

ROADWAY

AGRICULTURAL LIMING MATERIALS

THE LOCATION AND NEED FOR AGRICULTURAL LIMING MATERIALS WILL BE DETERMINED BY LABORATORY TESTS, AFTER ROUGH GRADING OPERATIONS HAVE BEEN PERFORMED. QUANTITIES OF AGRICULTURAL LIMING MATERIAL AS SHOWN ON THE PLANS ARE SUFFICIENT FOR THE ENTIRE PROJECT, BUT WILL BE NON-PERFORMED FOR THE AREAS WHERE TESTS SHOW THAT THE LIMING MATERIAL IS NOT NEEDED.

FERTILIZER

FERTILIZER (12-12-12) SHALL BE USED IN CONNECTION WITH ALL SEEDING, AND SODDING AND SHALL BE APPLIED AT THE RATE OF TWENTY (20) POUNDS PER ONE THOUSAND (1000) SQUARE FEET.

REMOVAL OF TREES AND STUMPS

The size and number of trees and stumps shown below for removal are as nearly correct as available information permits. The State will not be responsible for any variations found during construction. The lump sum bid for Item E-9, Removal of Trees and Stumps, shall constitute full payment for this item and no additional compensation will be allowed. All trees and stumps within the limits of construction shall be removed unless otherwise directed by the Engineer. Trees to be removed will be conspicuously marked by the Engineer.

| | | |
|-----------|-------|--------|
| | trees | stumps |
| 12" - 18" | 20 | 0 |
| 18" - 24" | 2 | 0 |
| over 24" | 3 | 1 |

SEEDING AND PROTECTING

Quantities for seeding are calculated for the soil areas as noted on Sheet No. 2, however the area to be seeded will be adjusted at the time of construction to the soil areas between the work limits and payment will be made on final measurement.

A Lump Sum Quantity has been provided to seed the soil area disturbed for the maintenance of traffic on the North side of the roadway.

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 the No. 200 sieve shall not exceed ten.

Construction Procedures & Traffic Maintenance

Estimated quantities of Items T-10 & M-10 have been provided in the General Summary and shall be applied on the North side of the relocated roadway between the approximate limits of Sta. 99+00 to Sta. 3+50, and Sta. 6+00 to Sta. 11+00, or at locations specified by the Engineer in order that two-way traffic on a 16' minimum width shall be maintained. These estimated quantities shall be applied where directed and in the amounts specified by the Engineer. Payment for construction, maintenance, and subsequent removal of same shall be included in the lump sum bid for "Maintaining Traffic."

Part width base construction will be permitted between Sta. 0+12.07 and Sta. 1+50 if so directed by the engineer.

Maintenance of two-way traffic as described above shall be consistent with the requirements of the General Note on Sheet #8.

PAVEMENT

REMOVAL AND DISPOSAL OF EXISTING PAVEMENT, WALKS, ETC.

OUTSIDE NORMAL CONSTRUCTION LIMITS, AFTER THE EXISTING PAVEMENT HAS BEEN REMOVED THE OLD ROADWAY SHALL BE PLOWED, HARROWED AND DRAGGED TO A SMOOTH GRADE, THE OLD DITCHES FILLED AND THE ENTIRE AREA LEFT IN A NEAT CONDITION. COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM E-8, PAVEMENT REMOVAL. AFTER SHAPING TO DRAIN, THE ENTIRE AREA SHALL BE SEED. THE AREA FOR SEEDING HAS BEEN CALCULATED AND IS INCLUDED IN ITEM L-9, SEEDING AND PROTECTING, FOR PAYMENT.

THE COST OF REMOVAL AND DISPOSAL OF ALL CONCRETE, STONE, BRICK OR MACADAM PAVEMENTS, SIDEWALKS, STEPS, BASEMENT OR GARAGE FLOORS, FOUNDATION WALLS, RETAINING WALLS, DRIVEWAYS AND APRONS, AND ANY OTHER MISCELLANEOUS STRUCTURES AND OBSTRUCTIONS WITHIN THE CONSTRUCTION LIMITS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM E-1, ROADWAY EXCAVATION UNLESS OTHERWISE NOTED ON THE PLANS.

WHEN EMBANKMENT MATERIAL IS TO BE SUPERIMPOSED UPON SUCH MATERIAL AND THE DEPTH OF THE EMBANKMENT EXCLUSIVE OF NEW PAVEMENT EXCEEDS THREE (3) FEET, THE MATERIAL SHALL BE BROKEN UP INTO PORTIONS WHOSE AREAS DO NOT EXCEED ONE (1) SQUARE FOOT BUT NEED NOT BE REMOVED, IF THE DEPTH OF THE EMBANKMENT IS NOT IN EXCESS OF THREE (3) FEET, THE MATERIAL SHALL BE ENTIRELY REMOVED, DISPOSED OF AND PAID FOR AS STATED ABOVE.

SUPERELEVATION

SUPERELEVATED CURVES SHALL BE BUILT WITHOUT CROWN. THE CROWN SHALL BE WORKED OUT OF THE PAVEMENT ON THAT PORTION INDICATED ON THE PAVEMENT EDGE TRANSITION TABLE ON SHEET 4.

BERMS AND SLOPES

BERMS AND SLOPES SHALL BE FINISHED IN ACCORDANCE WITH THE TYPICAL SECTIONS, EXCEPT WHERE OTHERWISE SHOWN IN THE CROSS SECTIONS. WHILE THE CROSS-SECTIONS AS DRAWN SHOW STRAIGHT LINES AND ANGLES, IN CONSTRUCTION ALL CORNERS SHALL BE ROUNDED AS SHOWN ON THE TYPICAL SECTIONS.

DRAINAGE

PIPE REMOVAL

WHERE PIPE IS MARKED FOR REMOVAL, AND HEADWALLS, CATCH BASINS, MANHOLES OR ENCASMENTS ARE INVOLVED AND SUCH ITEMS ARE NOT SEPARATELY MARKED FOR PAYMENT, THE COST OF REMOVAL AND DISPOSAL OF HEADWALLS, CATCH BASINS, MANHOLES OR ENCASMENTS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR E-12 PIPE REMOVED.

SUBGRADE COMPACTION

The subgrade for drives and mailbox turnouts paved with B-19 and T-35 material shall be compacted for a depth of six (6) inches to the density requirements shown in table III, Item E-1. Payment for subgrade compaction, as specified above, shall be included in the unit price bid for Item E-1, Roadway Excavation.

| Sheet No. | Ref. No. | Station to Station | B-19 | B-35 | B-35 | I-22 | T-30 | T-35 | E-1 | E-1 | E-1 | L-9 |
|---------------|----------|--------------------|-----------------------|---|-----------------------------------|------------|-----------------------|-----------------------------------|--------------------|--------------------|-------------|----------------------|
| | | | Aggregate Base Course | 1 1/2" Asphaltic Concrete Leveling Course | 3" Asphaltic Concrete Base Course | 6" Subbase | Bituminous Prime Coat | Asphaltic Concrete Surface Course | Compacted Subgrade | Roadway Excavation | Embankment | Seeding & Protection |
| | | | Cu. Yds. | Cu. Yds. | Cu. Yds. | Cu. Yds. | Gal. | Cu. Yds. | Sq. Yds. | Cu. Yds. | Cu. Yds. | Sq. Yds. |
| 4 | | 0+00 to 9+89 | 388 | 90 | 185 | 406 | 991 | 68 | 2436 | 5408 | 2345 | 7,188 |
| 4 | 1-A | 1+11 | 4 | | | | 11 | 15 | | | 5 | |
| 4 | 2-A | 2+09 | 5 | | | | 15 | 2.0 | | | 35 | |
| 4 | 3-A | 2+79 | 4 | | | | 11 | 1.5 | | | 15 | |
| 4 | 4-A | 7+63 | 5 | | | | 15 | 2.0 | | | 15 | |
| 4 | 5-A | 8+87 | 3 | | | | 8 | 1.0 | | | 5 | |
| | | 99+00 to 11+00 | | | | | | | | | | 1155 |
| Totals | | | 443 | 90 | 185 | 406 | 991 | 68 | 2436 | 5408 | 2420 | 8343 |

E-11 Water Embankment 2420 C.Y.
I-22 406 C.Y.
B-19 409 C.Y.
Total 3235 C.Y.

3235 x 5 M Gal. ÷ 1000 = 16.2 M Gal.

L-9 Fertilizer 8343 S.Y.
L-9 Seeding 8343 S.Y.
8343 x 20 / 1000 x 2000 = 0.75 Ton Fertilizer
8343 x 100 / 1000 x 2000 = 3.75 Ton Liming Materials

| Sheet No. | Ref. No. | Sta. To Sta | E-12 | I-15 | E-8 |
|---------------|----------|--------------|--------------------------------|--------------------------|----------------------------|
| | | | Remove Exist. Pipe 15" & Under | Remove Exist. Guard Rail | Removal of Exist. Pavement |
| | | | Lin. Ft. | Lin. Ft. | Sq. Yd. |
| 4 | 1R | 20 | | | |
| 4 | 2R | 28 | | 130 | |
| 4 | 3R | 14 | | | |
| 4 | | 3+40 to 5+50 | | | 344 |
| Totals | | | 62 | 130 | 344 |

| Sheet No. | Station | I-4 | I-4 | I-5 |
|---------------|-----------|----------------|----------------|-----------|
| | | 6" Under-drain | 8" Outlet Pipe | 45° Band |
| | | Lin. Ft. | Lin. Ft. | Each |
| 4 | From to | | | |
| 4 | 0+00 5+00 | 500 | 50* | 2* |
| 4 | 5+82 9+89 | 407 | | |
| Totals | | 907 | 50* | 2* |

*Quantities carried from Sheet No. 4

GENERAL SUMMARY

| ITEM | QUANTITY | UNIT | DESCRIPTION |
|--------------------------|----------|----------|--|
| E-9 | Lump | Lump | Removal of Trees and Stumps |
| T-10 | 500 | Cu. Yd. | Traffic Compacted Surface Course for Maintaining Traffic |
| M-10 | 10 | Tons | Calcium Chloride Furnished and Applied for Maintaining Traffic |
| E-8 | 344 | Sq. Yd. | Removal of Existing Pavement, as per plan |
| E-1 | 2436 | Sq. Yd. | Compacted Subgrade |
| E-1 | 5408 | Cu. Yd. | Roadway Excavation, Method "A", as per plan |
| E-1 | 2420 | Cu. Yd. | Embankment, Method "A" |
| E-11 | 16 | M. Gal. | Water |
| E-12 | 62 | Lin. Ft. | Pipe Removed, under 15" |
| I-8 | 4 | Each | Monument Assemblies Standard |
| I-15 | 100 | Lin. Ft. | Guard Rail, Steel Beam Standard Type (Deep), as per plan |
| I-15 | 130 | Lin. Ft. | Guard Rail, Removed & Disposed of |
| L-9 | 8343 | Sq. Yd. | Seeding & Protecting |
| L-9 | 0.75 | Ton | Commercial Fertilizer (12-12-12) |
| L-9 | 3.75 | Ton | Agricultural Liming Materials, as per plan |
| B-19 | 443 | Cu. Yd. | Aggregate Base Course |
| B-35 | 90 | Cu. Yd. | Asphaltic Concrete Leveling Course (85-100) |
| T-30 | 991 | Gal. | Bituminous Prime Coat - Sec M-5.7, Rt-2 or Rt-3 |
| I-22 | 406 | Cu. Yd. | Subbase, Grading "A" or "B", as per plan |
| T-35 | 68 | Cu. Yd. | Asphaltic Concrete Surface Course (85-100), Type "C" |
| B-35 | 185 | Cu. Yd. | Asphaltic Concrete Base Course (85-100) |
| I-1 | 108 | Lin. Ft. | 12" Pipe for Driveways Sec M-6.4(a) |
| I-4 | 907 | Lin. Ft. | 6" Underdrains |
| I-4 | 50 | Lin. Ft. | 8" Pipe Outlets for Underdrains, Sec M-6.4(a) |
| I-5 | 2 | Each | 6" Pipe Specials for Underdrains |
| Drainage Cont'd on Sh. B | | | |
| Lump | Lump | Lump | Construction Layout Stakes |