FAI-22-9

SURVEYING PARAMETERS

PRIMARY PROJECT CONTROL MONUMENTS GOVERN ALL POSITIONING ON ODOT PROJECTS. SEE SHEET 130 OF THE PLANS FOR A TABLE CONTAINING PROJECT CONTROL INFORMATION.

USE THE FOLLOWING PROJECT CONTROL, VERTICAL POSITIONING, AND HORIZONTAL POSITIONING PARAMETERS FOR ALL SURVEYING:

PROJECT CONTROL

POSITIONING METHOD: ODOT VRS MONUMENT TYPE: TYPF B

VERTICAL POSITIONING

ORTHOMETRIC HEIGHT DATUM: NAVD 88 18

GEOID:

HORIZONTAL POSITIONING

REFERENCE FRAME: NAD83 (2011)

ELLIPSOID: GRS-80

MAP PROJECTION: LAMBERT CONFORMAL CONIC COORDINATE SYSTEM: OHIO STATE PLANE SOUTH ZONE COMBINED SCALE FACTOR: 0 99990578064

ORIGIN OF COORDINATE SYSTEM: 0.0.0

USE THE POSITIONING METHODS AND MONUMENT TYPE USED IN THE ORIGINAL SURVEY TO RESTORE ALL MONUMENTS RELATED TO PRIMARY PROJECT CONTROL THAT ARE DAMAGED OR DESTROYED BY CONSTRUCTION ACTIVITIES. RESTORE THE DAMAGED OR DESTROYED MONUMENTS IN ACCORDANCE WITH CMS 623.

UNITS ARE IN U.S. SURVEY FEET.

ROUNDING

THE ROUNDING AT SLOPE BREAKPOINTS SHOWN ON THE TYPICAL SECTIONS APPLIES TO ALL CROSS-SECTIONS EVEN THOUGH OTHERWISE SHOWN.

WORK LIMITS

THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY, PROVIDE THE INSTALLATION AND OPERATION OF ALL WORK ZONE TRAFFIC CONTROL AND WORK ZONE TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS.

ITEM 609 CURB, TYPE 6, AS PER PLAN

THE CONTRACTOR SHALL INSTALL CURB, TYPE 6 AS PER CMS 609.04. EXCEPT THE CURB SHALL BE FORMED. FOR A FUTURE. TYPE A2 CURB RAMP AS PER STANDARD DRAWING BP-7.1. THE FUTURE CURB RAMP WILL BE 10 FOOT WIDE.

ALL EQUIPMENT, LABOR, MATERIALS OR INCIDENTALS REQUIRED TO COMPLETE THIS ITEM SHALL BE INCLUDED FOR PAYMENT IN THE UNIT PRICE BID FOR ITEM 609, CURB, TYPE 6, AS PER PLAN.

UTILITIES

LISTED BELOW ARE ALL UTILITIES LOCATED WITHIN THE PROJECT CONSTRUCTION LIMITS TOGETHER WITH THEIR RESPECTIVE OWNERS:

SOUTH CENTRAL POWER ATTN: ZACK REED 2780 COONPATH RD, NE P.O. BOX 250 LANCASTER, OH 43130 (740) 689-6150

AT&T - OHIO ATTN: KEVIN GLASSER 111 NORTH FOURTH ST COLUMBUS, OHIO 43215 (614) 208-9312

FRONTIER COMMUNICATIONS ATTN: ROBERT CHANDLER 1300 SANDUSKY ROAD MARION, OHIO 43302 (740) 369-0826

SPECTRUM CABLE TV ATTN: DANIEL FEINGOLD 3760 INTERCHANGE RD. COLUMBUS, OHIO 43204 (614) 487-7718 DANIEL FEINGOLD@CHARTER.COM

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.

ITEM 202 - REMOVAL, MISC.: POST ITEM 202 - REMOVAL, MISC.: ROCK ITEM 202 - REMOVAL, MISC.: BILLBOARD

IN ADDITION TO THE REQUIREMENTS OF CMS 202, THESE ITEMS SHALL CONSIST OF THE REMOVAL AND DISPOSAL OF THE ITEMS NOTED IN THE PLANS.

PAYMENT SHALL INCLUDE ALL LABOR, EQUIPMENT, AND DEPOSAL FEES NECESSARY TO REMOVE THE ITEMS.

ITEM 407, NON-TRACKING TACK COAT

THE RATE OF APPLICATION OF THE ITEM 407, NON-TRACKING TACK COAT SHALL BE PER CMS TABLE 407.06-1 AND SUBJECT TO ADJUSTMENT AS DIRECTED BY THE ENGINEER. PLAN QUANTITIES INDICATE AN AVERAGE APPLICATION RATE OF 0.08 GAL/SY FOR TACK COAT UNDER THE INTERMEDIATE AND 0.05 GAL/SY UNDER THE SURFACE COURSE, (FOR ESTIMATING PURPOSES ONLY).

SEEDING AND MULCHING

THE FOLLOWING QUANTITIES ARE PROVIDED TO PROMOTE GROWTH AND CARE OF PERMANENT SEEDED AREAS:

659, SOIL ANALYSIS TEST 2 EACH

659, TOPSOIL, AS PER PLAN 111 CU. YD. X 14474SQ. YD. / 1000 SQ. YD. = 1607 CU. YD.

659. SEEDING AND MULCHING 10202 SQ. YD. + 2074 SQ. YD. + 2198 SQ. YD. = 14474SQ. YD.

659, REPAIR SEEDING AND MULCHING 14474SQ. YD. X 5% = 724 SQ. YD.

659, INTER-SEEDING 14474SQ. YD. X 5% = 724 SQ. YD.

659, COMMERCIAL FERTILIZER 14474 SQ. YD. X 1 TON / 7410 SQ. YD. = 1.95 TON + 724 SQ. YD. X 20 LB / 1000 SQ. FT. X 9 SQ. FT./SQ. YD. = 130.3 LB = 1.95 TON + 130.3 LB / 2000 LB/TON = 2.02 TON

14474 SQ. YD. X 9 SQ. FT./SQ. YD. / 43560 SQ. FT./ AC. = 2.99 ACRES

14474 SQ, YD, X 0,0027 M GAL / SQ, YD, X 2 APPLICATIONS = 78.2 M GAL + 724 SQ. YD. X X 0.0027 M GAL / SQ. YD. = 1.95 M GAL = 78.2 M GAL + 1.95 M GAL = 81 M GAL

SEEDING AND MULCHING 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 WORK AGREEMENT OR SLOPE EASEMENT. QUANTITY CALCULATIONS FOR SEEDING AND MULCHING ARE BASED ON THESE LIMITS.

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 APPURTENANCE 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 CONTRACTORS 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 611 CONDUIT ITEMS.

ITEM 204 - SUBGRADE COMPACTION AND PROOF ROLLING

CONSTRUCT THE SUBGRADE AS FOLLOWS AND IN THE FOLLOWING SEQUENCE:

- 1. SHAPE THE SUBGRADE TO WITHIN 0.2 FEET OF THE PLAN SUBGRADE ELEVATION.
- 2. EXCAVATE AND REPLACE UNSUITABLE SUBGRADE BEFORE PROOF ROLLING. THE EXCAVATION LIMITS ARE SHOWN AND LABELED ON THE CROSS SECTIONS AS UNSUITABLE SUBGRADE. UNSUITABLE SUBGRADE INCLUDES UNSUITABLE SOIL (A-4B, A-2-5, A-5, A-7-5, AND SOIL WITH A LIQUID LIMIT GREATER THAN 65) AND ANY COAL, SHALE, OR ROCK WHICH NEEDS TO BE REMOVED ACCORDING TO SECTION 204.05 OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS (C&MS).

IF THERE IS UNSUITABLE SUBGRADE IN A SHALLOW FILL LOCATION, EXCAVATE AND REPLACE THE UNSUITABLE SUBGRADE BEFORE CONSTRUCTING THE SHALLOW FILL AND SHAPING THE SUBGRADE.

- 3. COMPACT THE SUBGRADE ACCORDING TO C&MS 204.03.
- 4. APPROXIMATE LIMITS FOR EXCAVATION OF UNSTABLE SUBGRADE ARE SHOWN AND LABELED ON THE CROSS SECTIONS AS UNSTABLE SUBGRADE. THE ENGINEER WILL IDENTIFY THE ACTUAL LIMITS OF EXCAVATION FOR UNSTABLE SUBGRADE BASED ON THE PROOF ROLLING RESULTS AND VISUAL OBSERVATIONS.

PROOF ROLL THE COMPACTED SUBGRADE ACCORDING TO C&MS 204.06.

- 5. EXCAVATE UNSTABLE SUBGRADE AS DIRECTED BY THE ENGINEER AND STABILIZE BY REPLACING WITH THE SPECIFIED MATERIALS ACCORDING TO C&MS 204.07. EXCAVATIONS WILL EXTEND 18 INCHES BEYOND THE EDGE OF THE SURFACE OF THE PAVEMENT, PAVED SHOULDERS, OR PAVED MEDIANS.
- 6. PROOF ROLL THE STABILIZED AREAS ACCORDING TO C&MS 204.06 TO VERIFY STABILITY.
- 7. FINE GRADE THE SUBGRADE TO THE SPECIFIED GRADE.

THE QUANTITIES FOR EXCAVATING THE UNSUITABLE SUBGRADE AND UNSTABLE SUBGRADE ARE BOTH PAID UNDER ITEM 204, EXCAVATION OF SUBGRADE.

THE QUANTITIES FOR THE ABOVE DESCRIBED WORK ARE SHOWN ON SHEET 60.



CROSS SECTIONS - U.S. 22 STA. 32+00.00 TO STA. 33+00.00

DESIGN AGENCY

E.L. ROBINSON
ENGINEERING

EN GINEERING

1468 West 9th St, Suke 800
Gleveland, Ohio
990 Goodale Bird, Suke 180
Grandriew Heights, Ohio

DESIGNER

CJS

REVIEWER

MJC 10/22/21

 Cut Area (SF):
 37
 Cut Vol. (CY):
 71

 Fill Area (SF):
 8
 Fill Vol. (CY):
 24

 Seed Width (FT):
 14
 Seed Area (SY):
 0

 − *LA-R/W* **−** EX SH EX SH LA-R/W 1030 1020 1019.44 1010 PGL 1022.79 STA. 38+49.87 XGL 1022.79 1000 100 50 0 50 100

CROSS SECTIONS - U.S. 22 STA. 38+49.87

 US-22 Totals

 Seeding
 Cut
 Fill

 10202
 4959
 5538

E.L. ROBINSON
E N G I N E E R I N C
1468 West 6th St. Suke 800
Goodale Blvd, Suke 180
Grandriew Heghts, Ohio

CJS REVIEWER
MJC 10/22/21
PROJECT ID

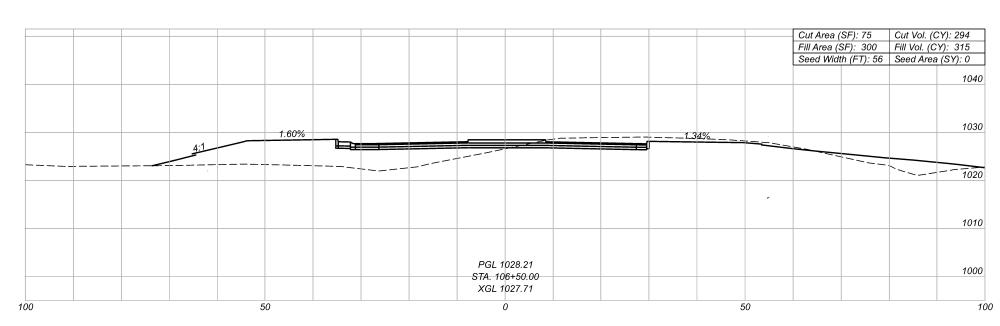
 Sheet Totals
 110407

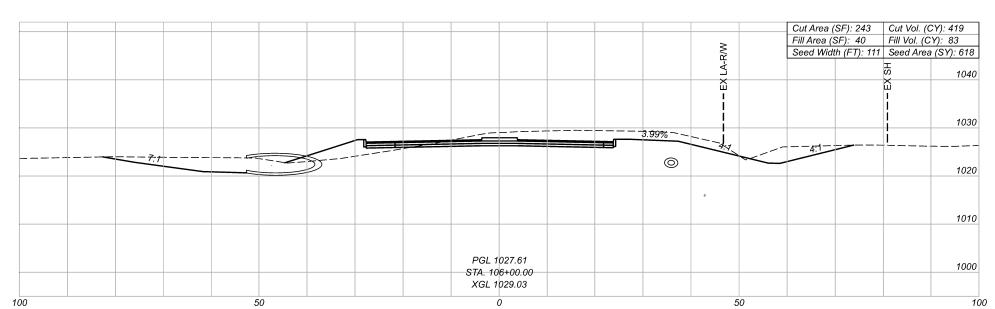
 Seeding
 Cut
 Fill
 SHEET
 TOTAL

 0
 71
 24
 P.85
 P.144

SR-159 Totals
 Seeding
 Cut
 Fill

 2074
 1394
 498





TIME: II:10:38 PM

| MODEL: ||407_XS207 | PAPERSIZE: ||7x|| (in.) | DATE: 4/20/2022 |P:\ OHDOT Worksets\||0407\400-Fngineering\|Rogdway\Sh

FAI-22-9.42

E.L. ROBINSON
E N G I N E E R I N C
1468 West 9th St, Suite 800
Cleveland, Ohio
950 Goodale Blyd, Suite 180
Crearchigus Blachts, Ohio

CROSS SECTIONS - S.R. 159 STA. 106+00.00 TO STA. 106+50.00

CJS

MJC 10/22/21 110407 Sheet Totals

 Seeding
 Cut
 Fill
 SHEET
 TOTAL

 618
 713
 398
 P.88
 P.144