

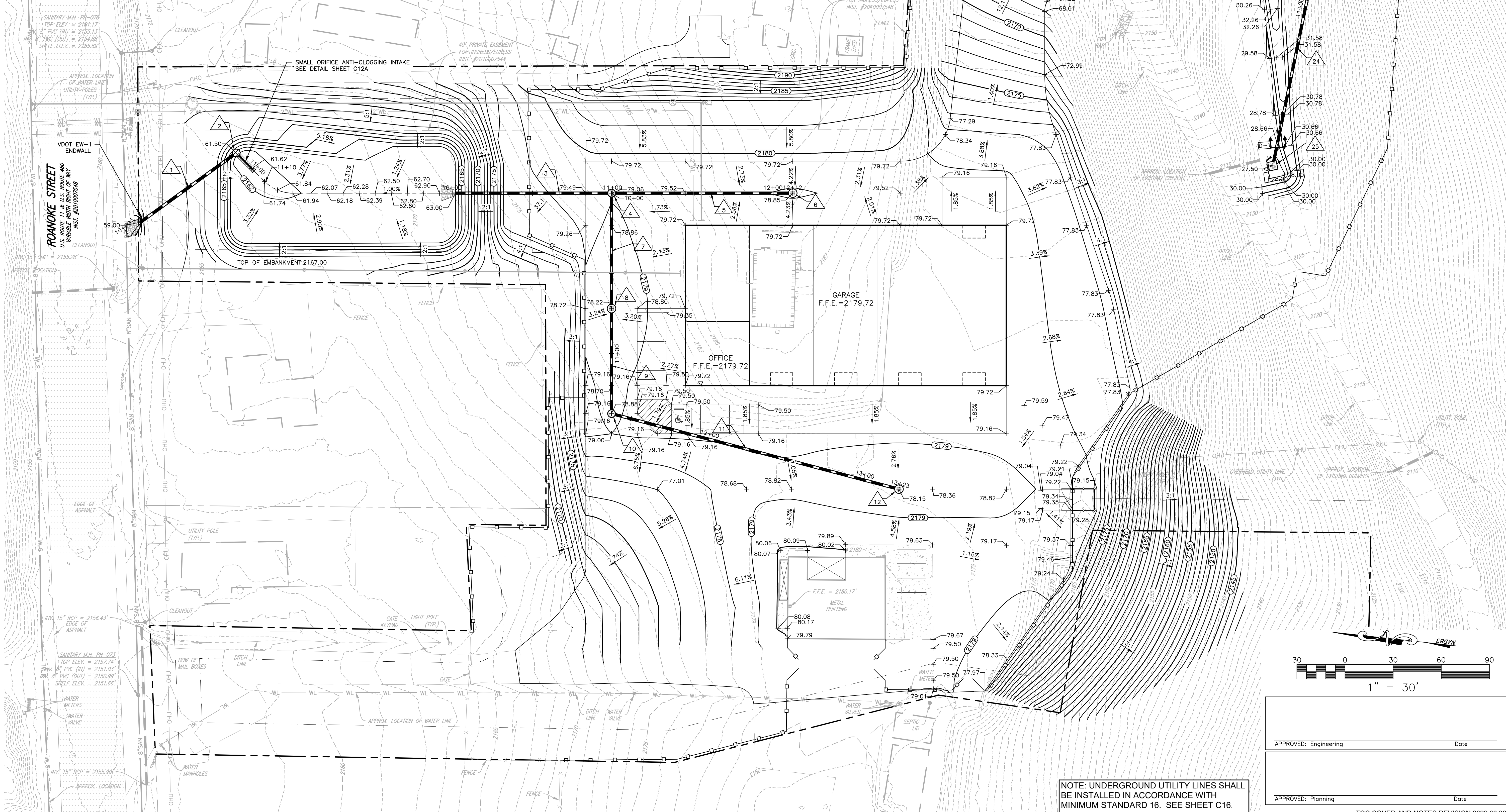
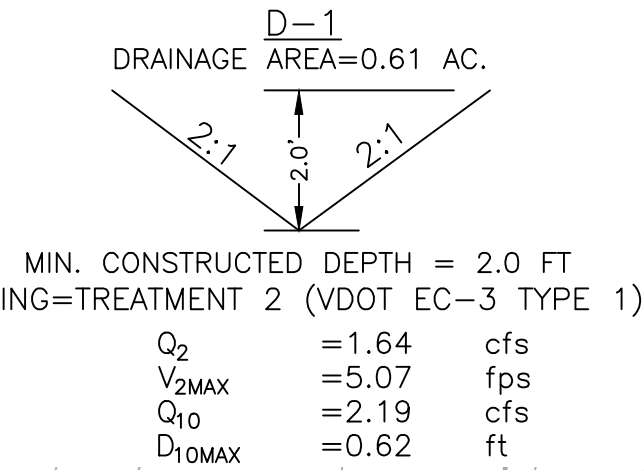
STANDARD GRADING NOTES

- CONTRACTOR TO ENSURE POSITIVE DRAINAGE AWAY FROM ALL STRUCTURES.
- REFER TO BUILDING PLANS FOR SUBGRADE AND UTILITY TRENCHES WITHIN 5' OF THE BUILDING ENVELOPE.
- FINISH LAWN AREAS TO WITHIN ONE INCH ABOVE OR BELOW REQUIRED SUBGRADE ELEVATIONS. SHAPE SURFACE UNDER WALKS AND PAVEMENTS TO LINE, GRADE, AND CROSS SECTION, WITH NOT MORE THAN 1/2" ABOVE OR BELOW REQUIRED SUBGRADE ELEVATION.
- SPREAD TOPSOIL TO A UNIFORM COMPACTED DEPTH OF 2" ON 3:1 OR STEEPER SLOPES AND 4" OVER ALL OTHER DISTURBED AREAS NOT RECEIVING WALKS, PAVEMENT, WALLS OR BUILDING, INCLUDING TRENCHES (SEE TABLE 3.30-A). CARE SHALL BE TAKEN ENSURE PROPER BONDING AND NOT TO LOOSELY TOPSOIL TO SUBSOIL IF THE TWO SOILS HAVE CONTRASTING TEXTURES (CLAYEY VS. SANDY). IMMEDIATELY FOLLOWING PLACEMENT OF TOPSOIL, DISK THE ENTIRE TOPSOILED AREA AND RAKE FREE OF STONES AND DEBRIS OVER 1/2" IN ANY DIMENSION. PROVIDE A FINISHED SURFACE FREE OF DEPRESSIONS OR HIGH SPOTS. SEED IMMEDIATELY.
- ALL ROOF DOWNSPOUTS SHALL DISCHARGE TO A 6" HDPE ROOF DRAIN. ROOF DRAINS SHALL CONNECT UNDERGROUND TO AN 8" MIN. HDPE COLLECTION PIPE. DRAIN PIPES SHALL HAVE A MINIMUM SLOPE OF 1.0% AND DISCHARGE INTO STORM SEWER.
- MINIMUM COVER OVER COLLECTION PIPES SHALL CONFORM TO MANUFACTURER'S STANDARD.
- HANDICAP PARKING AREA SHALL HAVE A MAXIMUM SLOPE OF 1:48 IN ANY DIRECTION.
- HANDICAP ACCESS ROUTE SHALL HAVE A MAXIMUM RUNNING SLOPE OF 1:20 AND A MAXIMUM CROSS SLOPE OF 1:48 IN ACCORDANCE WITH ADA GUIDELINES. RAMPS SHALL BE IN ACCORDANCE WITH THE ADA STANDARDS FOR ACCESSIBLE DESIGN, LATEST EDITION.

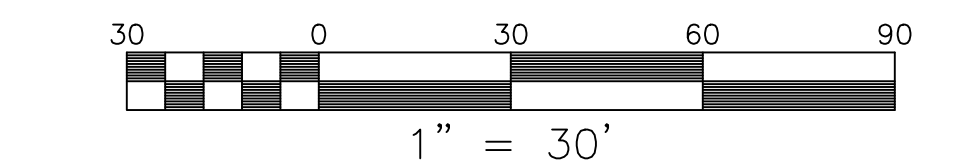
STRUCTURE SCHEDULE

- | | | | | | |
|----|--|----|---|----|--|
| 1 | 73.64 LF OF 15" ASTM C 443 CLASS III RCP @ 1.22%
INV. UPPER=2159.90 INV. LOWER=2159.00
W/VDOT EW-1 ENDWALL | 11 | 185.20 LF OF 15" TYPE S HDPE @ 0.61%
INV. UPPER=2175.15 INV. LOWER=2174.02 | 22 | 80.40 LF OF 15" TYPE S HDPE @ 2.38%
INV. UPPER=2113.51 INV. LOWER=2111.60 |
| 2 | 48" DIA. RISER STRUCTURE
OUTLET CONTROL FLOW STRUCTURE
SEE DETAIL SHEET C12A
TOP=2164.00
15" HDPE IN=2159.90
15" HDPE OUT=2159.90 | 12 | DI-1; NO IS-1
TOP=2178.15 H=3.50' (INCLUDES 6" SUMP)
15" HDPE OUT=2175.15 | 23 | 48" MH-2 W/ ST-1
TOP=2117.51 H=4.00'
15" HDPE IN=2113.61
15" HDPE OUT=2113.51 |
| 3 | 97.26 LF OF 15" TYPE S HDPE @ 8.01%
INV. UPPER=2170.79 INV. LOWER=2163.00 | 13 | 38.29 LF OF 15" TYPE S HDPE @ 7.81%
INV. UPPER=1962.82 INV. LOWER=1959.83 | 24 | 150.00 LF OF 15" TYPE S HDPE @ 6.59%
INV. UPPER=2123.50 INV. LOWER=2113.61 |
| 4 | 48" MH-2 W/ ST-1
TOP=2179.06 H=8.27'
15" HDPE IN=2170.89
15" HDPE IN=2170.89
15" HDPE OUT=2170.79 | 14 | 81.44 LF OF 15" ASTM C 443 CLASS III RCP @ 3.56%
INV. UPPER=2100.90 INV. LOWER=2098.00 | 25 | DI-7 W/ST-1; NO IS-1; TYPE B GRATE
TOP=2127.50 H=4.50' (INCLUDES 6" SUMP)
15" HDPE OUT=2123.50 |
| 5 | 112.96 LF OF 15" TYPE S HDPE @ 3.80%
INV. UPPER=2175.18 INV. LOWER=2170.89 | 15 | 48" DIA. RISER STRUCTURE
OUTLET CONTROL FLOW STRUCTURE
SEE DETAIL SHEET C12B
TOP=2105.00
15" HDPE OUT=2100.90 | | |
| 6 | DI-1 W/ST-1; NO IS-1
TOP=2178.85 H=4.17' (INCLUDES 6" SUMP)
15" HDPE OUT=2175.18 | 16 | 12.75 LF OF 18" TYPE S HDPE @ 3.96%
INV. UPPER=2102.14 INV. LOWER=2101.64 | | |
| 7 | 72.00 LF OF 15" TYPE S HDPE @ 3.33%
INV. UPPER=2173.29 INV. LOWER=2170.89 | 17 | 48" MH-2 W/ ST-1
TOP=2108.00 H=5.86'
18" HDPE IN=2102.24
18" HDPE OUT=2102.14 | | |
| 8 | DI-1 W/ST-1; NO IS-1
TOP=2178.22 H=5.43' (INCLUDES 6" SUMP)
15" HDPE IN=2173.39
15" HDPE OUT=2173.29 | 18 | 282.93 LF OF 18" TYPE S HDPE @ 1.28%
INV. UPPER=2105.85 INV. LOWER=2102.24 | | |
| 9 | 65.45 LF OF 15" TYPE S HDPE @ 0.81%
INV. UPPER=2173.92 INV. LOWER=2173.39 | 19 | 48" MH-2 W/ ST-1
TOP=2112.00 H=6.15'
15" HDPE IN=2105.95
18" HDPE OUT=2105.85 | | |
| 10 | 48" MH-2 W/ ST-1
TOP=2178.88 H=4.96'
15" HDPE IN=2174.02
15" HDPE OUT=2173.92 | 20 | 93.55 LF OF 15" TYPE S HDPE @ 5.93%
INV. UPPER=2111.50 INV. LOWER=2105.95 | | |
| | | 21 | DI-7 W/ST-1; NO IS-1; TYPE B GRATE
TOP=2115.50 H=4.50' (INCLUDES 6" SUMP)
15" HDPE IN=2111.60
15" HDPE OUT=2111.50 | | |

CHANNEL CROSS-SECTIONS



NOTE: UNDERGROUND UTILITY LINES SHALL BE INSTALLED IN ACCORDANCE WITH MINIMUM STANDARD 16. SEE SHEET C16.



APPROVED: Engineering	Date
APPROVED: Planning	Date

TOC COVER AND NOTES REVISION 2022.08.03