

## 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 TO ENSURE PROPER BONDING AND NOT TO DISRUPT 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

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| 1  | 73.64 LF OF 15" ASTM C 443 CLASS III RCP @ 1.22%<br>INV. UPPER=2159.90 INV. LOWER=2159.00<br>W/VDOT EW-1 ENDWALL                                 |
| 2  | 48" DIA. RISER STRUCTURE<br>OUTLET CONTROL FLOW STRUCTURE<br>SEE DETAIL SHEET C12A<br>TOP=2164.00<br>15" HDPE IN=2159.90<br>15" HDPE OUT=2159.90 |
| 3  | 97.26 LF OF 15" TYPE S HDPE @ 8.01%<br>INV. UPPER=2170.79 INV. LOWER=2163.00                                                                     |
| 4  | 48" MH-2 W/ ST-1<br>TOP=2179.06 H=8.27'<br>15" HDPE IN=2170.89<br>15" HDPE IN=2170.89<br>15" HDPE OUT=2170.79                                    |
| 5  | 112.96 LF OF 15" TYPE S HDPE @ 3.80%<br>INV. UPPER=2175.18 INV. LOWER=2170.89                                                                    |
| 6  | DI-1 W/ST-1; NO IS-1<br>TOP=2178.85 H=4.17' (INCLUDES 6" SUMP)<br>15" HDPE OUT=2175.18                                                           |
| 7  | 72.00 LF OF 15" TYPE S HDPE @ 3.33%<br>INV. UPPER=2173.29 INV. LOWER=2170.89                                                                     |
| 8  | DI-1 W/ST-1; NO IS-1<br>TOP=2178.22 H=5.43' (INCLUDES 6" SUMP)<br>15" HDPE IN=2173.39<br>15" HDPE OUT=2173.29                                    |
| 9  | 65.45 LF OF 15" TYPE S HDPE @ 0.81%<br>INV. UPPER=2173.92 INV. LOWER=2173.39                                                                     |
| 10 | 48" MH-2 W/ ST-1<br>TOP=2178.88 H=4.96'<br>15" HDPE IN=2174.02<br>15" HDPE OUT=2173.92                                                           |

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| 11 | 185.20 LF OF 15" TYPE S HDPE @ 0.61%<br>INV. UPPER=2175.15 INV. LOWER=2174.02                                                                    |
| 12 | DI-1; NO IS-1<br>TOP=2178.15 H=3.50' (INCLUDES 6" SUMP)<br>15" HDPE OUT=2175.15                                                                  |
| 13 | 28.16 LF OF 18" TYPE S HDPE @ 4.70%<br>INV. UPPER=1962.82 INV. LOWER=1961.50                                                                     |
| 14 | 81.44 LF OF 15" ASTM C 443 CLASS III RCP @ 3.56%<br>INV. UPPER=2100.90 INV. LOWER=2098.00                                                        |
| 15 | 48" DIA. RISER STRUCTURE<br>OUTLET CONTROL FLOW STRUCTURE<br>SEE DETAIL SHEET C12B<br>TOP=2105.00<br>15" HDPE IN=2100.90<br>15" HDPE OUT=2100.90 |
| 16 | 12.75 LF OF 18" TYPE S HDPE @ 3.96%<br>INV. UPPER=2102.14 INV. LOWER=2101.64                                                                     |
| 17 | 48" MH-2 W/ ST-1<br>TOP=2108.06 H=5.86'<br>18" HDPE IN=2102.24<br>18" HDPE OUT=2102.24                                                           |
| 18 | 282.93 LF OF 18" TYPE S HDPE @ 1.28%<br>INV. UPPER=2105.85 INV. LOWER=2102.24                                                                    |
| 19 | 48" MH-2 W/ ST-1<br>TOP=2112.00 H=6.15'<br>15" HDPE IN=2105.95<br>18" HDPE OUT=2105.85                                                           |
| 20 | 93.55 LF OF 15" TYPE S HDPE @ 5.93%<br>INV. UPPER=2111.50 INV. LOWER=2105.95                                                                     |
| 21 | DI-7 W/ST-1; NO IS-1; TYPE B GRATE<br>TOP=2115.50 H=4.50' (INCLUDES 6" SUMP)<br>15" HDPE IN=2111.60<br>15" HDPE OUT=2111.50                      |

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| 22 | 80.40 LF OF 15" TYPE S HDPE @ 2.38%<br>INV. UPPER=2113.51 INV. LOWER=2111.60                         |
| 23 | 48" MH-2 W/ ST-1<br>TOP=2117.51 H=4.00'<br>15" HDPE IN=2113.61<br>15" HDPE OUT=2113.51               |
| 24 | 150.00 LF OF 15" TYPE S HDPE @ 6.59%<br>INV. UPPER=2123.50 INV. LOWER=2113.61                        |
| 25 | DI-7 W/ST-1; NO IS-1; TYPE B GRATE<br>TOP=2127.50 H=4.50' (INCLUDES 6" SUMP)<br>15" HDPE OUT=2123.50 |

