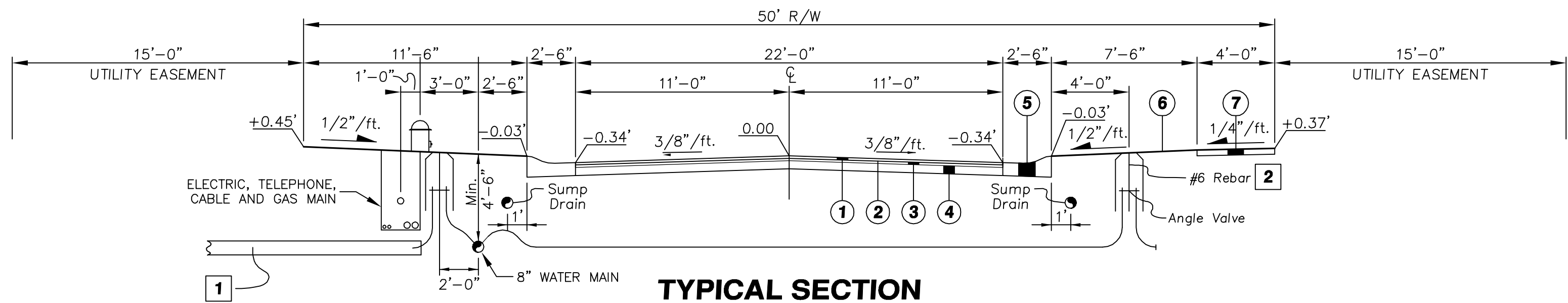


GRADING NOTES

- LOCATION OF EXISTING UTILITIES TO BE DETERMINED IN THE FIELD PRIOR TO BEGINNING WORK.
- THE GRADING PLAN IS TO BE USED FOR GRADING PURPOSES ONLY.
- CONTRACTOR SHALL OBTAIN A COPY OF THE COMPLETE GEOTECHNICAL REPORT AND ALL ADDENDUMS PRIOR TO BIDDING THE PROJECT.
- CONTRACTORS SHALL SET UP AN ONSITE PRE-CONSTRUCTION MEETING WITH THE DEVELOPER, PROJECT GEOTECHNICAL ENGINEER, EARTHWORK CONTRACTOR, SITE CIVIL ENGINEER, AND WCEO (PHIL GINTHER) PRIOR TO BEGINNING CONSTRUCTION.
- CONTRACTOR SHALL ASSUME THE TOP 7" OF EXISTING GROUND IS TOPSOIL. TOPSOIL REMOVED TO DEPTHS GREATER THAN 7" SHALL BE DONE ONLY AFTER CONSULTATION WITH THE PROJECT GEOTECHNICAL ENGINEER AND APPROVAL OF THE DEVELOPER.
- ALL PROPOSED MOUNDS SHALL BE CONSTRUCTED WITH TOPSOIL.
- ALL EARTHWORK AND CONSTRUCTION ACTIVITY SHALL BE PERFORMED PER THE RECOMMENDATIONS OF THE PROJECT GEOTECHNICAL ENGINEER AS DESCRIBED IN THE GEOTECHNICAL EXPLORATION REPORT AND ALL ADDENDUMS.
- CONTRACTOR SHALL VERIFY ALL EARTHWORK QUANTITIES PRIOR TO AWARD OF CONTRACT. PAY QUANTITIES ARE FINAL EXCEPT FOR DOCUMENTED UNDERCUT APPROVED BY DEVELOPER PRIOR TO COMPLETION OF THE EXTRA WORK. UPON REQUEST, CONTRACTORS MAY HAVE ACCESS TO THE SITE TO FIELD CHECK TOPOGRAPHY.
- CONTRACTOR TO PROVIDE SILT FENCE AT STORM SEWER OUTLETS (ALONG WITH ROCK CHANNEL PROTECTION AS SPECIFIED ON UTILITY PLAN) TO PREVENT EROSION.
- CONTRACTOR SHALL INSTALL AND MAINTAIN A CONCRETE WASHOUT FACILITY PER WARREN COUNTY STANDARDS. CONTRACTOR SHALL COORDINATE LOCATION WITH WARREN COUNTY SOIL & WATER CONSERVATION DISTRICT.
- EROSION CONTROL MEASURES SHALL BE IMPLEMENTED PRIOR TO CONSTRUCTION AND MAINTAINED DURING CONSTRUCTION.
- BEST MANAGEMENT PRACTICES (BMPs) SHOWN ON PLANS SHALL BE REVISED OR IMPLEMENTED AS REQUIRED. CONTRACTOR SHALL MONITOR CONSTRUCTION BMPs AND PROVIDE ADDITIONAL BMPs AS REQUIRED TO PREVENT SEDIMENT RUNOFF FROM CONSTRUCTION SITE ONTO PAVEMENT AND NON-WORK AREAS.
- AT A MINIMUM, ALL EROSION AND SEDIMENT CONTROLS ON THE SITE SHALL BE INSPECTED AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS AFTER ANY STORM EVENT GREATER THAN ONE-HALF INCH OF RAIN PER 24 HOUR PERIOD. QUALIFIED INSPECTION PERSONNEL (THOSE WITH KNOWLEDGE AND EXPERIENCE IN THE INSTALLATION AND MAINTENANCE OF SEDIMENT AND EROSION CONTROLS) SHALL CONDUCT THESE INSPECTIONS TO ENSURE THAT THE CONTROL PRACTICES ARE FUNCTIONAL AND TO EVALUATE WHETHER THE EROSION CONTROL IS ADEQUATE AND PROPERLY IMPLEMENTED OR WHETHER ADDITIONAL CONTROL MEASURES ARE REQUIRED. DISTURBED AREAS AND AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION SHALL BE INSPECTED FOR EVIDENCE OF OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. DISCHARGE LOCATIONS SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION AND SEDIMENT CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO THE RECEIVING WATERS. LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFF-SITE VEHICLE TRACKING.
- SITE STABILIZATION SHALL BEGIN WITHIN 7 DAYS ON AREAS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE PERMANENTLY OR TEMPORARILY CEASED FOR 14 DAYS.
- ALL MUD OR DEBRIS TRACKED ON EXISTING STREETS SHALL BE CLEANED AT THE END OF EACH DAY OR AS DIRECTED BY WARREN COUNTY OR THE OWNER. PERIODIC STREET SWEEPING MAY BE REQUIRED.
- IN ADDITION TO ANY TEMPORARY EROSION, MUD, AND DEBRIS CONTROL DETAILS AND NOTES SHOWN ON THE PLANS, THE CONTRACTOR SHOULD PLACE TEMPORARY OR PERMANENT SEEDING, MULCHING AND/OR MULCH NETTING OR ANY OTHER GENERALLY ACCEPTED METHODS TO PREVENT EROSION, MUD, AND DEBRIS FROM BEING DEPOSITED ON OTHER PROPERTY, ON NEWLY CONSTRUCTED OR EXISTING ROADS, OR INTO EXISTING SEWERS OR NEW SEWERS WITHIN THE DEVELOPMENT. THE CONTRACTOR SHOULD CONTINUALLY MONITOR THE CONSTRUCTION PROGRESS AND MAKE ANY NECESSARY TEMPORARY ADJUSTMENTS TO MAINTAIN THIS CONTROL.
- AFTER THE VEGETATION HAS BECOME WELL ESTABLISHED, TEMPORARY EROSION AND SEDIMENT CONTROLS CAN BE REMOVED.



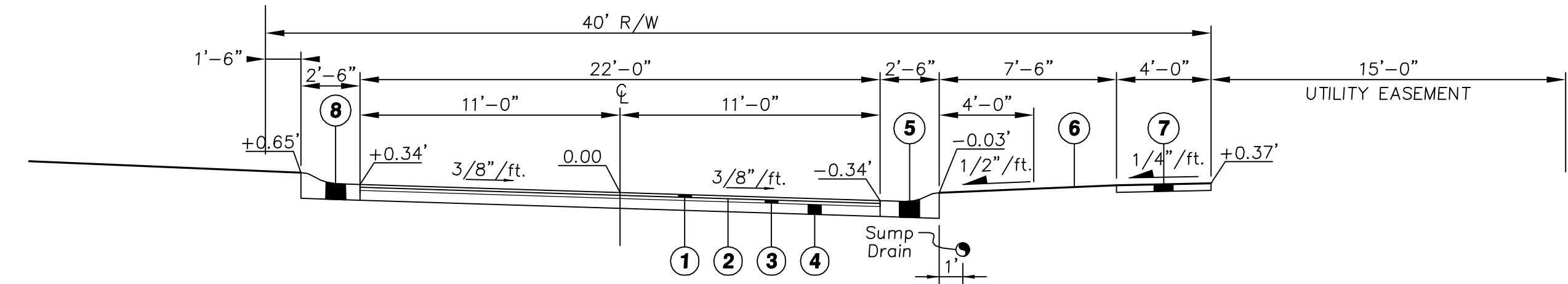
TYPICAL SECTION
GRANTS FREDERICK (START STATION 8+32.16, END STATION 19+22.70)
FREDERICK COURT
FREDERICK TRAIL

LEGEND

- 1 ITEM 404-(1 1/2") ASPHALT CONCRETE SURFACE COURSE
- 2 ITEM 407-TACK COAT MS-2, RS-1, OR RC-250
- 3 ITEM 448-(1 1/2") ASPHALT CONCRETE LEVELING COURSE
- 4 ITEM 301-(5") COURSES BITUMINOUS AGGREGATE BASE
- 5 CURB & GUTTER, TYPE "C" (WARREN COUNTY STANDARD)
- 6 PROVIDE (4") MIN. TOPSOIL SEED & MULCH OR SOD.
- 7 ITEM 608-(4") THICK CONCRETE SIDEWALK, 4' WIDE, TO BE 1/2" HIGHER THAN SOD.

NOTES

- 1 ON THE SIDE OF THE ROAD WITH THE WATER MAIN PLASTIC TUBING SHALL BE 20"± LONG & EXTEND 23" BEHIND CURB TO CLEAR TELEPHONE & ELECTRIC EASEMENTS. CONTRACTOR SHALL PLACE 2"x4" OR LARGER POSTS, PAINTED BLUE AT BOTH ENDS OF PLASTIC CONDUIT.
- 2 #6 REBAR - CONTRACTOR SHALL INSTALL 2 #6 REBAR 5' LONG VERTICALLY AT ANGLE VALVES
- 3 WATER SERVICES TO BE LOWERED WHEN CONFLICT WITH STORM SEWER OCCURS

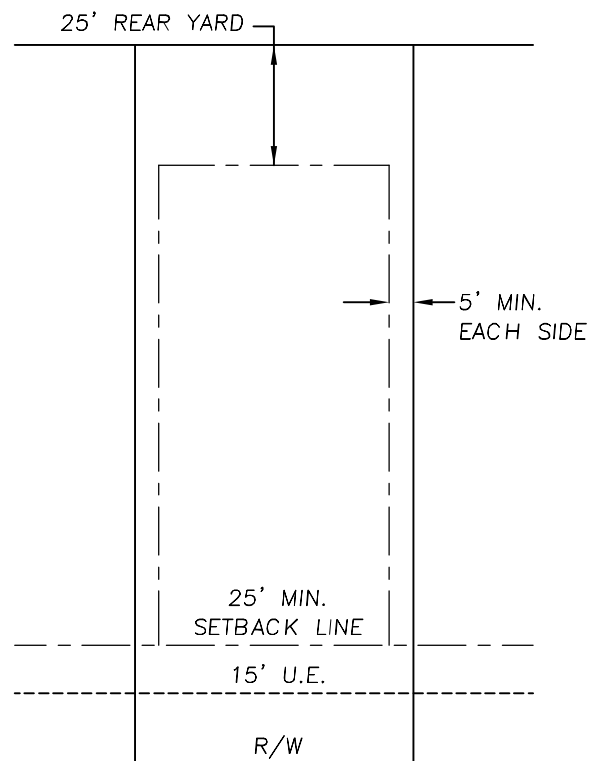
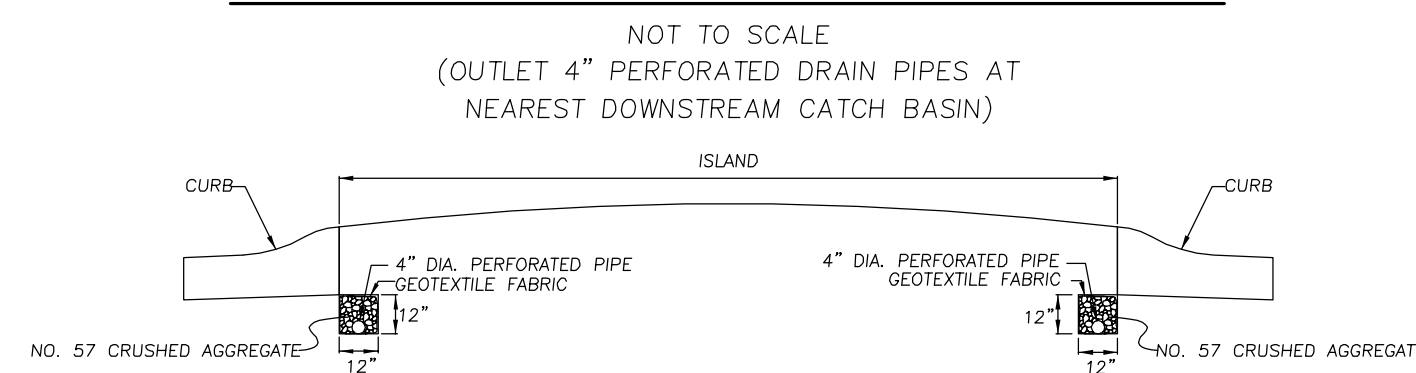


TYPICAL SECTION
GRANTS FREDERICK (LOOP 1 AND LOOP 2)

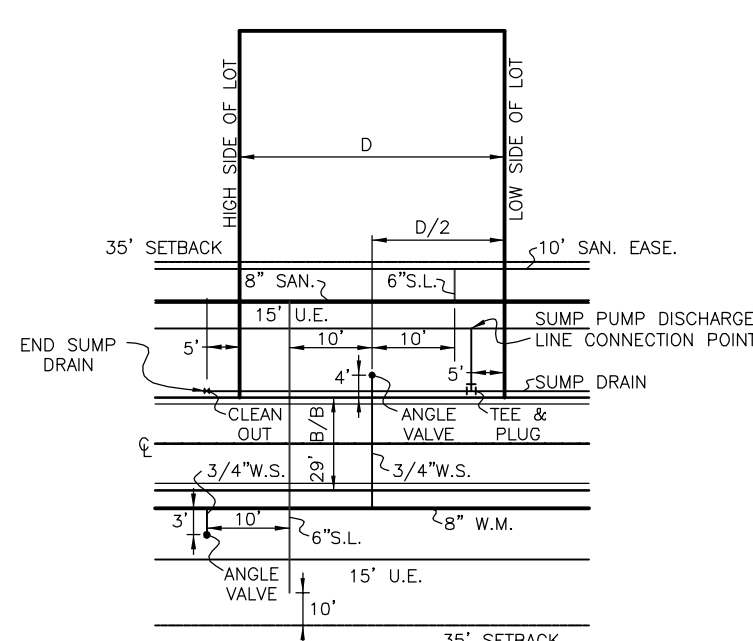
LEGEND

- 1 ITEM 404-(1 1/2") ASPHALT CONCRETE SURFACE COURSE
- 2 ITEM 407-TACK COAT MS-2, RS-1, OR RC-250
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- 7 ITEM 608-(4") THICK CONCRETE SIDEWALK, 4' WIDE, TO BE 1/2" HIGHER THAN SOD.
- 8 CURB & GUTTER, TYPE "C" MODIFIED

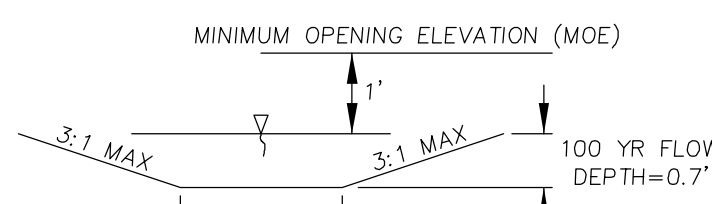
ISLAND PERIMETER DRAIN DETAIL



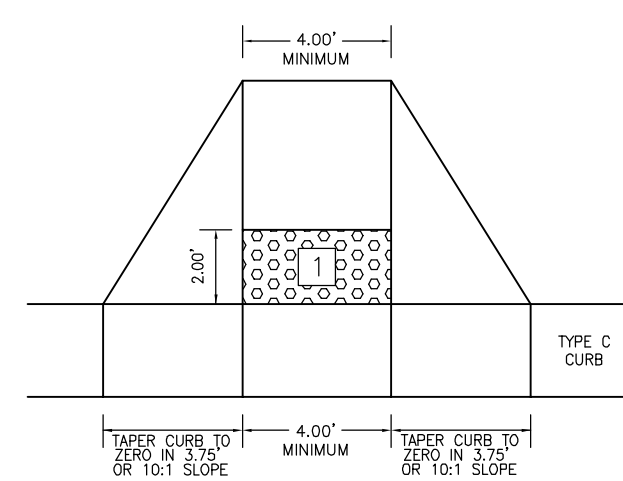
TYPICAL LOT
6000 S.F. MIN.



TYPICAL LOT DETAIL:
UTILITY LAYOUT
NOT TO SCALE

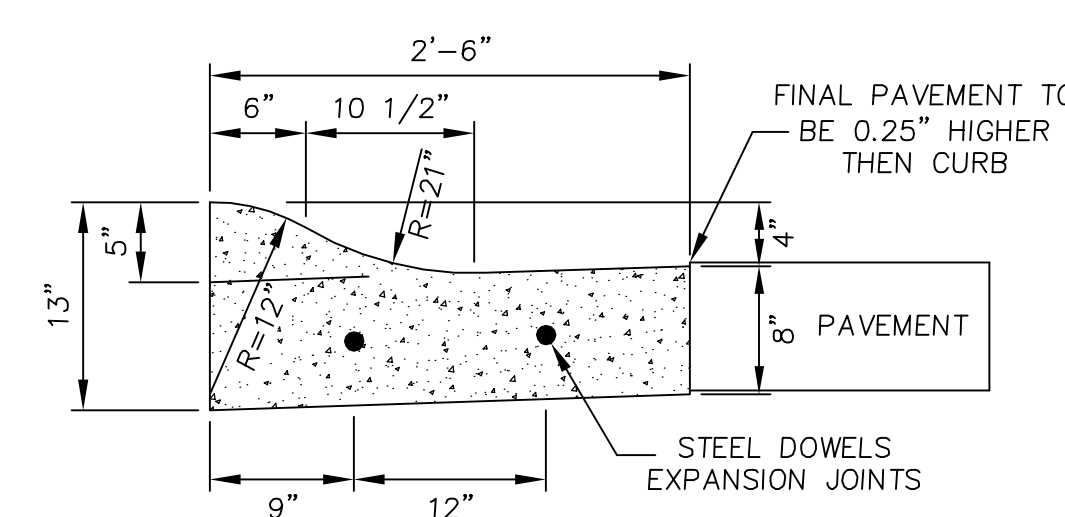


EMERGENCY STORM ROUTE
NOT TO SCALE

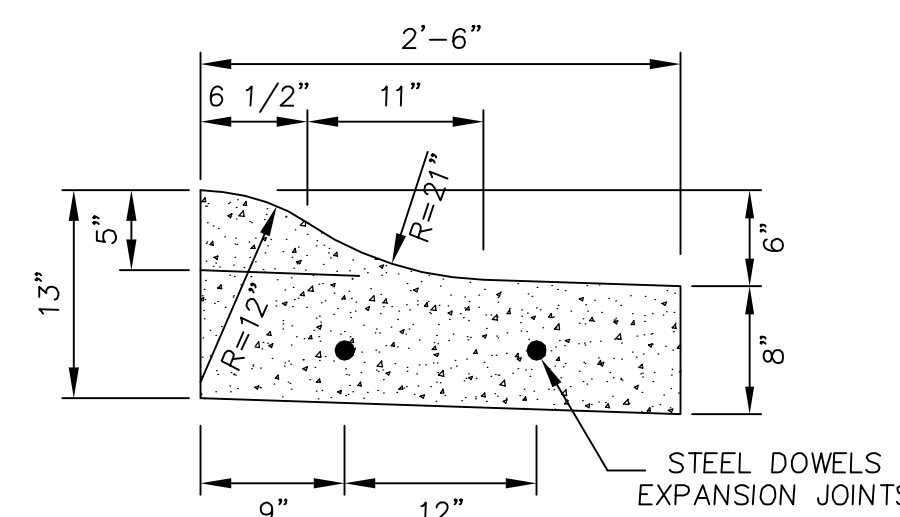


CURB RAMP DETAIL
NOT TO SCALE

- 1 CURB RAMP SHALL BE DESIGN A OR DESIGN E PER ODOT DRAWING 7-12-02 SHEETS 1 THRU 3. TRUNCATED DOMES ARE TO MEET THE SPECIFICATIONS OF ODOT DRAWING 7-12-02 SHEET 3.
- 2 DETECTABLE WARNING (TRUNCATED DOMES) ARE TO BE INSTALLED IN THE LOCATION SHOWN. DIMENSIONS OF THE DOMES ARE 24" FROM THE BACK OF THE CURB BY THE WIDTH OF THE RAMP.
- 3 (TRUNCATED PANEL BY ADA SOLUTIONS OR APPROVED EQUAL)
- 4 MINIMUM LANDING 4'-0" BUT A 5'-0" IS PREFERRED. SLOPE OF THE RAMP IS PREFERRED TO BE 12:1 OR FLATTER RELATED TO THE HORIZONTAL, BUT THE MAXIMUM SLOPE SHALL BE 12:1 RELATIVE TO THE EXISTING OR PROPOSED WALK SLOPE.



CURB & GUTTER TYPE "C"
(WARREN COUNTY STANDARD)



CURB & GUTTER TYPE "C" MODIFIED

NOTES FOR CURB & GUTTER

- CONCRETE FOR CURBS AND GUTTERS SHALL BE ODOT CLASS C, AN APPROVED CURING AGENT SHALL BE APPLIED AFTER FINISHING.
- FLEXIBLE FORMS SHALL BE USED ON ALL CURVES HAVING RADI OF 275' OR LESS.
- 1" EXPANSION JOINTS SHALL BE INSTALLED AT 150' INTERVALS, WITHIN 1' OF ALL CATCH BASINS (BOTH SIDES), AND AT THE START, MID-POINT, AND END OF ALL RADII. CUL-DE-SACS SHALL HAVE A MINIMUM OF FOUR EXPANSION JOINTS. TWO SMOOTH STEEL DOWEL BARS, NO. 6 X 18" LONG, WITH EXPANSION CAPS SHALL BE INSTALLED AT EACH EXPANSION JOINT AS SHOWN ON THE DETAIL.
- CONTROL JOINTS SHALL BE PROVIDED AT 6' INTERVALS AND SHALL BE CUT FRONT, TOP, AND REAR OF ALL CURB.
- ALL JOINTS SHALL BE VERTICAL AND EITHER PERPENDICULAR OR RADIAL TO THE BACK OF CURB.
- ALL EXPOSED EDGES SHALL BE ROUNDED TO 3/8" RADIUS. TYPE D (SEE PLAN).
- ALL CURBING SHALL BE BACKFILLED BEFORE PAVEMENT WORK IS BEGUN.
- UNLESS OTHERWISE SPECIFIED, TYPE A,B,C,D MAY BE USED FOR PRIVATE SUBDIVISION PROJECTS.
- PLACE DOWEL BARS AS SHOWN AT ALL CONSTRUCTION JOINTS.

THE VILLAGES AT RIVERS BEND
GRANTS FREDERICK
SECTION TWO, BLOCKS A, B & C
MILITARY SURVEY No. 1648
VILLAGE OF SOUTH LEBANON,
WARREN COUNTY, OHIO

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Drawing: **11C009-003 CD C3D**
Drawn by: **TAC**
Checked by: **GJK**
Issue Date: **03-11-15**

Sheet: **C2.0**