

GENERAL NOTES

- 1. CITY OF COLUMBUS AND OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS, CURRENT EDITIONS, AND ANY SUPPLEMENTS THERETO (HEREAFTER REFERRED TO AS STANDARD SPECIFICATIONS) SHALL GOVERN ALL CONSTRUCTION ITEMS UNLESS OTHERWISE NOTED. IF A CONFLICT BETWEEN SPECIFICATIONS IS FOUND, THE MORE STRICT SPECIFICATION WILL APPLY AS DECIDED BY THE CITY ENGINEER. ITEM NUMBERS LISTED REFER TO CITY OF COLUMBUS ITEM NUMBERS UNLESS OTHERWISE NOTED.
2. THE CITY ENGINEER WILL NOT BE RESPONSIBLE FOR MEANS, METHODS, PROCEDURES, TECHNIQUES, OR SEQUENCES OF CONSTRUCTION THAT ARE NOT SPECIFIED HEREIN. THE CITY ENGINEER WILL NOT BE RESPONSIBLE FOR SAFETY ON THE WORK SITE, OR FOR FAILURE BY THE CONTRACTOR TO PERFORM WORK ACCORDING TO CONTRACT DOCUMENTS.
3. THE DEVELOPER OR CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN ALL NECESSARY PERMITS INCLUDING BUT NOT LIMITED TO OHIO EPA PERMITS TO INSTALL (PITI) AND NOTICES OF INTENT (NOI), BUILDING PERMITS, ETC.
4. THE CONTRACTOR SHALL NOTIFY THE CITY OF DUBLIN DIVISION OF ENGINEERING IN WRITING AT LEAST 3 WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION.
5. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLYING WITH ALL FEDERAL, STATE AND LOCAL SAFETY REQUIREMENTS INCLUDING THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970. THE CONTRACTOR SHALL EXERCISE PRECAUTION ALWAYS FOR THE PROTECTION OF PERSONS (INCLUDING EMPLOYEES) AND PROPERTY. IT SHALL ALSO BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO INITIATE, MAINTAIN AND SUPERVISE ALL SAFETY REQUIREMENTS, PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK, INCLUDING THE REQUIREMENTS FOR CONFINED SPACES PER 29 CFR 1910.146.
6. FOLLOWING COMPLETION OF CONSTRUCTION OF THE SITE IMPROVEMENTS AND BEFORE RECEIVING OCCUPANCY, A PROOF SURVEY SHALL BE PROVIDED TO THE DIVISION OF ENGINEERING THAT DOCUMENTS 745-BUILT ELEVATIONS, DIMENSIONS, SLOPES AND ALIGNMENTS OF ALL ELEMENTS OF THIS PROJECT. THE PROOF SURVEY SHALL BE PREPARED, SIGNED AND SUBMITTED BY THE PROFESSIONAL ENGINEER WHO SEALED THE CONSTRUCTION DRAWINGS.
7. THE CONTRACTOR SHALL RESTRICT CONSTRUCTION ACTIVITY TO PUBLIC RIGHT-OF-WAY AND AREAS DEFINED AS PERMANENT AND/OR TEMPORARY CONSTRUCTION EASEMENTS, UNLESS OTHERWISE AUTHORIZED BY THE CITY ENGINEER.
8. THE CONTRACTOR SHALL CAREFULLY PRESERVE BENCHMARKS, PROPERTY CORNERS, REFERENCE POINTS, STAKES AND OTHER SURVEY REFERENCE MONUMENTS OR MARKERS. IN CASES OF WILLFUL OR CARELESS DESTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORATION. RESETTING OF MARKERS SHALL BE PERFORMED BY AN OHIO PROFESSIONAL SURVEYOR AS APPROVED BY THE CITY ENGINEER.
9. NON-RUBBER TRED VEHICLES SHALL NOT BE MOVED ON OR ACROSS PUBLIC STREETS OR HIGHWAYS WITHOUT THE WRITTEN PERMISSION OF THE CITY ENGINEER.
10. THE CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS TO EQUAL OR BETTER CONDITION THAN EXISTED BEFORE CONSTRUCTION. DRAINAGE DITCHES OR WATERCOURSES THAT ARE TRACKED BY CONSTRUCTION SHALL BE RESTORED TO THE GRADES AND CROSS-SECTIONS THAT EXISTED BEFORE CONSTRUCTION.
11. TRACKING OR SPILLING MUD, DIRT OR DEBRIS UPON STREETS, RESIDENTIAL OR COMMERCIAL DRIVES, SIDEWALKS OR BIKE PATHS IS PROHIBITED ACCORDING TO SECTION 97.38 OF THE DUBLIN CODE OF ORDINANCES. ANY SUCH OCCURRENCE SHALL BE CLEANED UP IMMEDIATELY BY THE CONTRACTOR AT NO COST TO THE CITY. IF THE CONTRACTOR FAILS TO REMOVE MUD, DIRT, DEBRIS, OR SPILLAGE, THE CITY RESERVES THE RIGHT TO REMOVE THESE MATERIALS AND CLEAN AFFECTED AREAS, THE COST OF WHICH SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
12. DISPOSAL OF EXCESS EXCAVATION WITHIN SPECIAL FLOOD HAZARD AREAS (100-YEAR FLOODPLAIN) IS NOT PERMITTED.
13. ALL SIGNS, LANDSCAPING, STRUCTURES OR OTHER APPURTENANCES WITHIN RIGHT-OF-WAY DISTURBED OR DAMAGED DURING CONSTRUCTION SHALL BE REPLACED OR REPAIRED TO THE SATISFACTION OF THE CITY ENGINEER. THE COST OF THIS WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
14. ALL FIELD TILE BROKEN OR ENCOUNTERED DURING EXCAVATION SHALL BE REPAIRED OR REPAIRED AND CONNECTED TO THE PUBLIC STORM SEWER SYSTEM AS DIRECTED BY THE CITY ENGINEER. THE COST OF THIS WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
15. ALL PRECAST CONCRETE PRODUCTS SHALL BE INSPECTED AT THE LOCATION OF MANUFACTURE. APPROVED PRECAST CONCRETE PRODUCTS WILL BE STAMPED OR HAVE SUCH IDENTIFICATION NOTING THAT INSPECTION HAS BEEN CONDUCTED BY THE CITY OF COLUMBUS. PRECAST CONCRETE PRODUCTS WITHOUT PROOF OF INSPECTION SHALL NOT BE APPROVED FOR INSTALLATION.
16. BACKFILL WITHIN A 1:1 INFLUENCE LINE OF EXISTING STRUCTURES (HOUSES, GARAGES, ETC.) OR PUBLIC INFRASTRUCTURE (PAVEMENT, CURBS, SIDEWALKS, BIKE PATHS, ETC.) SHALL BE COMPACTED GRANULAR BACKFILL ACCORDING TO ITEM 912 OF THE STANDARD SPECIFICATIONS OR FLOMBLE COF, TYPE II ACCORDING TO ITEM 636, ITEM 911 OF THE STANDARD SPECIFICATIONS SHALL BE USED ELSEWHERE.
17. THE CONTRACTOR SHALL SUBMIT A COPY OF THE APPROVED CONSTRUCTION DRAWINGS AND A LIST OF PROPOSED PRECAST CONCRETE PRODUCT MANUFACTURERS TO THE CITY OF COLUMBUS CONSTRUCTION INSPECTION DIVISION BEFORE COMMENCING CONSTRUCTION.
SEND THE INFORMATION TO THE FOLLOWING ADDRESS:
CONSTRUCTION INSPECTION DIVISION
CITY OF COLUMBUS
1800 EAST 17TH AVENUE
COLUMBUS, OHIO 43219
SEND A COPY OF THE TRANSMITTAL LETTER TO THE FOLLOWING ADDRESS:
DIVISION OF ENGINEERING
CITY OF DUBLIN
5800 SHER RINGS ROAD
DUBLIN, OHIO 43016
18. ALL TRENCHES WITHIN PUBLIC RIGHT-OF-WAY SHALL BE BACKFILLED ACCORDING TO THE APPROVED CONSTRUCTION DRAWINGS OR SECURELY PLATED DURING NONWORKING HOURS. TRENCHES OUTSIDE THESE AREAS SHALL BE BACKFILLED OR SHALL BE PROTECTED BY APPROVED TEMPORARY FENCING OR BARRICADES DURING NONWORKING HOURS. CLEAN UP SHALL FOLLOW CLOSELY BEHIND THE TRENCHING OPERATION.
19. ALL TREES WITHIN THE CONSTRUCTION AREA NOT SPECIFICALLY DESIGNATED FOR REMOVAL SHALL BE PRESERVED, WHETHER SHOWN OR NOT SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS. TREES TO BE PRESERVED SHALL BE PROTECTED WITH HIGH VISIBILITY FENCING PLACED A MINIMUM 15 FEET FROM THE TREE TRUNK. TREES 6 INCHES OR GREATER IN DBH (DIAMETER BREAST HEIGHT) MUST BE PROTECTED WITH FENCING PLACED AT THE CRITICAL ROOT ZONE OR 15 FEET, WHICHEVER IS GREATER. TREES NOT INDICATED ON THE APPROVED CONSTRUCTION DRAWINGS FOR REMOVAL MAY NOT BE REMOVED WITHOUT PRIOR APPROVAL OF THE DIVISION OF ENGINEERING.

- 20. CONDUIT MUST BE DIRECTIONALLY BORED ACROSS STREETS INSTEAD OF OPEN CUT, UNLESS SPECIFICALLY APPROVED BY THE CITY ENGINEER. USE OF PNEUMATIC AIR RAM DEVICES IS NOT PERMITTED. PERMITS TO CONSTRUCT IN THE RIGHT-OF-WAY OF EXISTING STREETS MUST BE OBTAINED FROM THE CITY OF DUBLIN DIVISION OF ENGINEERING BEFORE COMMENCING CONSTRUCTION. SHOULD OPEN CUTTING OF EXISTING PAVEMENT BE PERMITTED, CONTROLLED DENSITY BACKFILL (TYPE II) SHALL BE USED IN PLACE OF COMPACTED GRANULAR BACKFILL, ACCORDING TO ITEM 636 OF THE STANDARD SPECIFICATIONS.
21. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONDITION OF TRENCHES WITHIN THE RIGHT-OF-WAY AND PUBLIC EASEMENTS FOR A PERIOD OF ONE YEAR FROM THE FINAL ACCEPTANCE OF THE WORK, AND SHALL MAKE ANY NECESSARY REPAIRS AT NO COST TO THE CITY.
22. PAVEMENTS SHALL BE CUT IN NEAT, STRAIGHT LINES THE FULL DEPTH OF THE EXISTING PAVEMENT, OR AS REQUIRED BY THE CITY ENGINEER. PAVEMENT REPLACEMENT SHALL BE CONDUCTED ACCORDING TO CITY OF COLUMBUS STANDARD DRAWING 1441 DR. A AND APPLICABLE CITY OF DUBLIN STANDARD DRAWINGS, THE REPLACEMENT OF DRAINWAYS, HANDICAPPED RAMPS, SIDEWALKS, BIKE PATHS, PARKING LOT PAVEMENT, ETC. SHALL BE PERFORMED ACCORDING TO THE APPROVED CONSTRUCTION DRAWINGS AND CITY OF DUBLIN STANDARD CONSTRUCTION DRAWINGS.
23. TREE TRIMMING WITHIN THE CONSTRUCTION ZONE IS TO BE COMPLETED BY A CERTIFIED ARBORIST. AT THE COMPLETION OF THE PROJECT, THE ARBORIST IS TO RETURN AND TRIM ANY BROKEN BRANCHES AS NEEDED.
24. ANY MODIFICATION TO THE WORK SHOWN ON DRAWINGS MUST HAVE PRIOR WRITTEN APPROVAL BY THE CITY ENGINEER, CITY OF DUBLIN.
25. ALL INLETS SHALL BE CHANNELLED.
26. PARK AREAS SHALL BE FINE-GRADED AND SEEDDED WITH THE FOLLOWING MIXTURE:
IMPROVED KENTUCKY BLUEGRASS; 40% OF HEIGHT (2 VARIETIES IN EQUAL PARTS)
APPROVED PERENNIAL RYE GRASS OF HEIGHT (2 VARIETIES IN EQUAL PARTS)
GERMINATION RATE: 85%
APPLICATION RATE: 7 LBS PER 1000 SQ FT OR AS DIRECTED BY THE DIVISION OF PARKS AND RECREATION, CITY OF DUBLIN, OHIO.
27. TRAFFIC CONTROL AND OTHER REGULATORY SIGNS SHALL BE SET WITH A SQUARE POST ANCHOR BASE INSTALLATION AND MEET ALL REQUIREMENTS OF ODOT TC-4120 AND APPLICABLE CITY OF DUBLIN SPECIFICATIONS.
28. STREET SIGNS SHALL MEET ALL CITY OF DUBLIN SPECIFICATIONS WITH LETTERING COLORED IN WHITE DISPLAYED OVER A BROWN BACKGROUND. SIGN TURNING SHALL BE BROWN IN COLOR AND CONFORM WITH THE TYPE S, SQUARE POST ANCHOR BASE INSTALLATION REQUIREMENTS OF ODOT TC-4120.

UTILITIES

- 1. THE FOLLOWING UTILITIES ARE KNOWN TO BE LOCATED WITHIN THE LIMITS OF THIS PROJECT:
COLUMBIA GAS OF OHIO
290 W. NATIONWIDE BLVD
COLUMBUS, OHIO 43215
1-800-440-4111
AMERICAN ELECTRIC POWER
ROBIN HAND
ENGINEERING LAMSON COORDINATOR
650 TECH CENTER DRIVE
GAHANNA, OHIO 43230-6605
(614) 883-6829
CITY OF DUBLIN DIVISION OF ENGINEERING
1000 GARNICK, P.E.
5800 SHER RINGS ROAD
DUBLIN, OHIO 43016
(614)410-4665
WIDE OPEN WEST
KEVIN HOLDREDER
ENGINEERING MANAGER
3675 CORPORATE DRIVE
COLUMBUS, OHIO 43231
(614) 644-7677
THE WARNER CABLE
KEVIN RICH
1286 DUBLIN ROAD
COLUMBUS, OHIO 43215
(614) 481-5263
2. THE CONTRACTOR SHALL GIVE NOTICE OF INTENT TO CONSTRUCT TO OHIO UTILITIES PROTECTION SERVICE (TELEPHONE NUMBER 800-362-2764), PRODUCER'S UNDERGROUND PROTECTION SERVICE (TELEPHONE NUMBER 614-587-0486), AND TO OWNERS OF UNDERGROUND UTILITIES THAT ARE NOT MEMBERS OF A REGISTERED UNDERGROUND PROTECTION SERVICE. NOTICE SHALL BE GIVEN AT LEAST 2 WORKING DAYS BEFORE START OF CONSTRUCTION.
3. THE IDENTITY AND LOCATIONS OF EXISTING UNDERGROUND UTILITIES IN THE CONSTRUCTION AREA HAVE BEEN SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS AS ACCURATELY AS PROVIDED BY THE OWNER OF THE UNDERGROUND UTILITY. THE CITY OF DUBLIN AND THE CITY ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OR DEPTHS OF UNDERGROUND UTILITIES SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS. IF DAMAGE IS CAUSED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OF THE SAME AND FOR ANY RESULTING CONTINGENT DAMAGE.
4. LOCATION, SUPPORT, PROTECTION AND RESTORATION OF ALL EXISTING UTILITIES AND APPURTENANCES, WHETHER SHOWN OR NOT SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
5. WHEN UNKNOWN OR INCORRECTLY LOCATED UNDERGROUND UTILITIES ARE ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER AND THE CITY ENGINEER.
6. PUBLIC STREET LIGHTING MAY BE IN THE VICINITY OF THIS PROJECT. CONTACT THE CITY OF DUBLIN, DIVISION OF ENGINEERING AT 410-4637, TWO DAYS PRIOR TO BEGINNING WORK.

TRAFFIC CONTROL

- 1. TRAFFIC CONTROL SHALL BE FURNISHED, ERECTED, MAINTAINED, AND REMOVED BY THE CONTRACTOR ACCORDING TO OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (OMUTCD), CURRENT EDITION.
2. ALL TRAFFIC LANES OF PUBLIC ROADWAYS SHALL BE FULLY OPEN TO TRAFFIC FROM 7:00 AM TO 8:00 AM AND FROM 4:00 PM TO 6:00 PM UNLESS AUTHORIZED DIFFERENTLY BY THE CITY ENGINEER. AT ALL OTHER TIMES THE CONTRACTOR SHALL MAINTAIN MINIMUM ONE-LANE TWO-WAY TRAFFIC. UNIFORMED, OFF-DUTY POLICE OFFICERS SHALL REPLACE FLAGMEN DESIGNATED BY THE OMUTCD, AND SHALL BE PRESENT WHENEVER ONE-LANE, TWO-WAY TRAFFIC CONTROL IS IN EFFECT. POLICE CRUISERS MAY BE REQUIRED AS DIRECTED BY THE CITY ENGINEER.
3. IF THE CITY ENGINEER DETERMINES THAT THE CONTRACTOR IS NOT PROVIDING PROPER PROVISIONS FOR TRAFFIC CONTROL, THE CITY ENGINEER SHALL ASSIGN UNIFORMED, OFF-DUTY POLICE OFFICERS TO THE PROJECT AT NO COST TO THE CITY.
4. STEADY-BURNING, TYPE "C" LIGHTS SHALL BE REQUIRED ON ALL BARRICADES, DRUMS, AND SIMILAR TRAFFIC CONTROL DEVICES IN USE AT NIGHT.
5. ACCESS FROM PUBLIC ROADWAYS TO ALL ADDJONING PROPERTIES FOR EXISTING RESIDENTS OR BUSINESSES SHALL BE MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT FOR MAIL, PUBLIC WATER AND SANITARY SEWER SERVICE, AND EMERGENCY VEHICLES. THE CONTRACTOR SHALL PROVIDE A TRAFFIC CONTROL PLAN DETAILING THE PROPOSED MAINTENANCE OF TRAFFIC PROCEDURES. THE TRAFFIC CONTROL PLAN MUST INCORPORATE ANY TRAFFIC CONTROL DETAILS CONTAINED HEREIN. THE TRAFFIC CONTROL PLAN PROPOSED BY THE CONTRACTOR MUST BE APPROVED BY THE CITY ENGINEER PRIOR TO CONSTRUCTION.

EROSION AND SEDIMENT CONTROL

- 1. THE CONTRACTOR OR DEVELOPER IS RESPONSIBLE FOR SUBMITTING A NOTICE OF INTENT (NOI) TO BE REVIEWED AND APPROVED BY THE OHIO EPA. THE NOI MUST BE SUBMITTED TO OHIO EPA 45 DAYS PRIOR TO THE START OF CONSTRUCTION AND MAY ENTITILE COVERAGE UNDER THE OHIO EPA GENERAL PERMIT FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY. A PROJECT LOCATION MAY NOT BE SUBMITTED WITH THE NOI. A SEDIMENT AND EROSION CONTROL PLAN MUST BE SUBMITTED TO THE CITY ENGINEER FOR APPROVAL. IF A SEDIMENT AND EROSION CONTROL PLAN HAS NOT YET BEEN INCLUDED WITH THE APPROVED CONSTRUCTION DRAWINGS, THIS PLAN MUST BE MADE AVAILABLE AT THE PROJECT SITE AT ALL TIMES. THE DESIGN OF EROSION CONTROL SYSTEMS SHALL FOLLOW THE REQUIREMENTS OF OHIO EPA, ITEM 507 OF OHIO DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, AND THE CITY ENGINEER. AN INDIVIDUAL, NON-SEWER STORMWATER DISCHARGE PERMIT MAY BE REQUIRED. THE CONTRACTOR SHALL BE CONSIDERED THE PERMITTEE.
2. THE CONTRACTOR SHALL PROVIDE SEDIMENT CONTROL AT ALL POINTS WHERE STORM WATER RUNOFF LEAVES THE PROJECT, INCLUDING WATERWAYS, OVERLAND SHEET FLOW, AND STORM SEWERS.
3. ACCEPTED METHODS OF PROVIDING EROSION/SEDIMENT CONTROL INCLUDE BUT ARE NOT LIMITED TO: SEDIMENT BASINS, SILT FILTER FENCE, AGGREGATE CHECK DAMS, AND TEMPORARY GROUND COVER. HAY OR STRAW BALES ARE NOT PERMITTED.
4. THE CONTRACTOR SHALL PROVIDE ADEQUATE DRAINAGE OF THE WORK AREA AT ALL TIMES CONSISTENT WITH EROSION CONTROL PRACTICES.
5. DISTURBED AREAS THAT WILL REMAIN UNWORKED FOR 30 DAYS OR MORE SHALL BE SEEDED OR PROTECTED WITHIN SEVEN LEAFY DAYS OF THE DISTURBANCE. OTHER SEDIMENT CONTROLS THAT ARE INSTALLED SHALL BE MAINTAINED UNTIL VEGETATIVE GROWTH HAS BEEN ESTABLISHED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL TEMPORARY SEDIMENT DEVICES AT THE CONCLUSION OF CONSTRUCTION BUT NOT BEFORE GROUND OF PERMANENT GROUND COVER.

USE OF BLASTING NOTE 1 DELETED

SANITARY SEWERS

- 1. CONNECTIONS TO THE SANITARY SEWER WILL BE PERMITTED UPON RECEIVING AN OSPA PERMIT TO INSTALL (PITI), AND UPON RECEIVING A SATISFACTORY LETTER FROM THE DESIGN ENGINEER STATING THAT THE PROJECT HAS BEEN CONSTRUCTED AS PER THE PLANS, AND ALL OF THE CONDITIONS OF THE PITI HAVE BEEN MET. THE DEVELOPER IS RESPONSIBLE FOR OBTAINING ALL REQUIRED OHIO EPA APPROVALS AND PAYING REVIEW FEES.
2. SANITARY SEWAGE COLLECTION SYSTEMS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE RULES, REGULATIONS, STANDARDS AND SPECIFICATIONS OF THE CITY OF DUBLIN, OHIO EPA, OHIO DEPARTMENT OF HEALTH AND THE CURRENT EDITION OF THE GREAT LAKES-UPPER MISSISSIPPI RIVER BOARD (TEN STATES) - RECOMMENDED STANDARDS FOR WASTEWATER FACILITIES.
3. THE MINIMUM REQUIREMENTS FOR SANITARY SEWER PIPE WITH DIAMETERS 15 INCHES AND SMALLER SHALL BE REINFORCED CONCRETE PIPE ASTM C76 CLASS 3, OR PVC SEWER PIPE ASTM D2003, SDR 35. PIPE FOR 6-INCH DIAMETER HOUSE SERVICE LINES SHALL BE PVC PIPE ASTM D2003, SDR 35. PVC PIPE SHALL NOT BE USED AT GREATER THAN 28 FEET. PIPE MATERIALS AND JOINT STRUCTURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF COLUMBUS CONSTRUCTION INSPECTION DIVISION QUALITY CONTROL REQUIREMENTS.
4. THE MINIMUM REQUIREMENTS FOR SANITARY SEWER PIPES WITH DIAMETERS GREATER THAN 15 INCHES SHALL BE REINFORCED CONCRETE PIPE ASTM C76 WITH CLASS DESIGNATION SPECIFIED IN THE APPROVED CONSTRUCTION DRAWINGS.
5. ALL IN-LINE WYE AND TEE CONNECTIONS IN CONCRETE SEWERS, 18-INCH DIAMETER AND LARGER, SHALL BE EITHER KOR-N-SEAL OR THE GR-OR-IN-SEAL CONNECTIONS CONFORMING TO THE MANUFACTURER'S RECOMMENDATIONS.
6. GRANULAR BACKFILL SHALL BE COMPACTED GRANULAR MATERIAL ACCORDING TO ITEM 912 OF THE STANDARD SPECIFICATIONS OR CONTROLLED DENSITY BACKFILL ACCORDING TO ITEM 636, TYPE III OF THE STANDARD SPECIFICATIONS AS DIRECTED BY THE CITY ENGINEER.
7. ALL MANHOLE LIDS SHALL BE PROVIDED WITH CONTINUOUS SELF-SEALING GASKETS. THE APPROVED CONSTRUCTION DRAWINGS SHALL SHOW WHERE BOLT-DOWN LIDS ARE REQUIRED. SANITARY SEWER MANHOLES SHALL BE PRECAST CONCRETE OR AS APPROVED BY THE CITY ENGINEER AND CONFORM TO THE CITY OF DUBLIN SANITARY MANHOLE STANDARD DRAWING. MANHOLE LIDS SHALL INCLUDE CITY OF DUBLIN LOGO.
8. ALL PVC SEWER PIPES SHALL BE DEFLECTION TESTED NO LESS THAN 60 DAYS AFTER COMPLETION OF BACKFILLING OPERATIONS. ALL OTHER REQUIREMENTS SHALL BE ACCORDING TO ITEM 901.21 OF THE STANDARD SPECIFICATIONS.

- 9. TEMPORARY BULKHEADS SHALL BE PLACED IN PIPES AT LOCATIONS SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS AND SHALL REMAIN IN PLACE UNTIL THE PERMIT TO INSTALL (PITI) HAS BEEN ISSUED BY THE OSPA AND THE SEWERS HAVE BEEN APPROVED FOR USE BY THE CITY ENGINEER. THE COST FOR FURNISHING, INSTALLING, MAINTAINING, AND REMOVING BULKHEADS SHALL BE INCLUDED IN THE CONTRACT UNIT BID PRICE FOR THE VARIOUS SANITARY SEWER ITEMS.
10. ALL SANITARY SEWERS INCLUDING SANITARY SEWER SERVICE LINES SHALL BE SUBJECTED TO AND PASS INFILTRATION OR EXFILTRATION TESTS ACCORDING TO ITEM 901 OF THE STANDARD SPECIFICATIONS AND MUST BE APPROVED FOR USE BY THE CITY ENGINEER BEFORE ANY SERVICE CONNECTIONS ARE TAPPED INTO SEWERS.
11. FOR SANITARY SEWER INFILTRATION, LEAKAGE THROUGH JOINTS SHALL NOT EXCEED 100 GALLONS PER INCH OF TRIBUTARY SEWER DIAMETER PER 24 HOURS PER MILE OF LENGTH OR THE COMPUTED EQUIVALENT. ALL SANITARY SEWERS SHALL BE TESTED.
12. AT THE DETERMINATION OF THE CITY ENGINEER, THE CONTRACTOR MAY BE REQUIRED TO PERFORM A TV INSPECTION OF THE SANITARY SEWER SYSTEM PRIOR TO FINAL ACCEPTANCE BY THE CITY. THIS WORK SHALL BE COMPLETED BY THE CONTRACTOR AT HIS EXPENSE.
13. VISIBLE LEAKS OR OTHER DEFECTS OBSERVED OR DISCOVERED DURING TV INSPECTION SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER.
14. ROOF DRAINS, FOUNDATION DRAINS, FLEED TILE OR OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER SYSTEM ARE STRICTLY PROHIBITED ACCORDING TO SECTION 51.23 OF THE DUBLIN CODE OF ORDINANCES.
15. ALL WATER LINES SHALL BE LOCATED AT LEAST 10 FEET HORIZONTALLY AND 18 INCHES VERTICALLY FROM SANITARY SEWERS AND STORM SEWERS. TO THE GREATEST EXTENT PRACTICABLE, WHERE SANITARY SEWERS CROSS WATER MAINS OR OTHER SEWER OR OTHER UTILITIES, TRENCH BACKFILL SHALL BE PLACED BETWEEN THE PIPES CROSSING AND SHALL BE COMPACTED GRANULAR MATERIAL ACCORDING TO ITEM 912 OF THE STANDARD SPECIFICATIONS. IN THE EVENT THAT A WATER LINE MUST CROSS WITHIN 18 INCHES OF A SANITARY SEWER, THE SANITARY SEWER SHALL BE CONCRETE ENCASED OR CONSIST OF DUCTILE IRON PIPE MATERIAL.
16. SERVICE RISERS SHALL BE INSTALLED WHERE THE DEPTH FROM WYES TO PROPOSED GROUND IS GREATER THAN 10 FEET. TIPS OF RISERS SHALL BE NO LESS THAN 9 FEET BELOW PROPOSED GROUND ELEVATION IF BASEMENT SERVICE IS INTENDED.
17. WHERE SERVICE RISERS ARE NOT INSTALLED, A MINIMUM 5-FOOT LENGTH OF SANITARY SEWER SERVICE PIPE OF THE SAME SIZE AS THE WYE OPENING SHALL BE INSTALLED.
18. THE CONTRACTOR SHALL FURNISH AND PLACE, AS DIRECTED, APPROVED WYE PIPES MADE OF 2 INCHES X 2 INCHES LUMBER AT ALL WYE LOCATIONS, ENDS OF EXTENDED SERVICES, OR AT THE END OF EACH RISER WHERE RISERS ARE REQUIRED. WYE POLES SHALL BE VISIBLE BEFORE ACCEPTANCE BY THE CITY. THE COST OF THESE PIPES SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE VARIOUS SEWER ITEMS.
19. EXISTING SANITARY SEWER FLOWS SHALL BE MAINTAINED AT ALL TIMES. COSTS FOR PUMPING AND BYPASSING SHALL BE INCLUDED IN THE CONTRACTOR'S UNIT PRICE BID FOR THE RELATED ITEMS.
20. THE CONTRACTOR SHALL FURNISH ALL MATERIAL, EQUIPMENT, AND LABOR TO MAKE CONNECTIONS TO EXISTING MANHOLES. THE SEWER PIPE TO MANHOLE CONNECTIONS FOR ALL SANITARY SEWERS SHALL BE FLEXIBLE AND WATERTIGHT. ALL HOLES SHALL BE NEATLY CORED. THE SEWER PIPE BARREL AT THE SPRINGLINE SHALL NOT EXTEND MORE THAN 1 INCH BEYOND THE INSIDE END OF THE MANHOLE. THE SEWER PIPE SHALL BE FLEXIBLE IN CONNECTION, A 1-INCH SPACE SHALL BE LEFT BETWEEN THE END OF THE PIPE INSIDE THE MANHOLE AND THE CONCRETE CHANNEL; THIS SPACE SHALL BE FILLED WITH A WATERPROOF FLEXIBLE JOINT FILLER. ANY METAL THAT IS USED SHALL BE TYPE 304 STAINLESS STEEL. THE CONNECTION MAY BE ANY OF THE FOLLOWING TYPES:
A. RUBBER GLEVE WITH STAINLESS STEEL BANDING.
1) KOR-N-SEAL AS MANUFACTURED BY NATIONAL POLLUTION CONTROL SYSTEMS, INC.
2) LOCK JOINT FLEXIBLE MANHOLE SLEEVE AS MANUFACTURED BY INTERFACE CORPORATION.
3) OR EQUAL AS APPROVED BY THE CITY ENGINEER.
B. RUBBER GASKET COMPRESSION.
1) PRESS WEDGE AS MANUFACTURED BY PRESS-SEAL GASKET CORPORATION.
2) DURM SEAL II AS MANUFACTURED BY DURM TECH, INC.
3) LINK-SEAL AS MANUFACTURED BY THUNDERLINE CORPORATION.
4) OR EQUAL AS APPROVED BY THE CITY ENGINEER.
THE COST FOR THIS WORK SHALL BE INCLUDED WITH THE MANHOLE COST FOR EACH MANHOLE. THE COST FOR THIS WORK SHALL BE INCLUDED IN THE UNIT BID PRICE FOR THE RELATED ITEMS OF WORK.

WATER LINE

- 1. ALL WATER LINE MATERIALS SHALL BE PROVIDED AND INSTALLED ACCORDING TO CURRENT SPECIFICATIONS OF THE CITY OF COLUMBUS DIVISION OF WATER.
2. ALL PUBLIC WATER PIPE WITH A DIAMETER 3 INCHES TO 8 INCHES SHALL BE DUCTILE IRON, CLASS 55. PUBLIC WATER PIPE 12 INCHES IN DIAMETER OR LARGER SHALL BE DUCTILE IRON, CLASS 54. PUBLIC WATER PIPE 20 INCHES IN DIAMETER OR LARGER MAY BE PRESTRESSED CONCRETE PIPE. PRIVATE WATER PIPE SHALL MEET THE APPROVAL OF THE CITY OF COLUMBUS DIVISION OF WATER PRIOR TO APPROVAL OF THE CONSTRUCTION DRAWINGS.
3. ONLY FIRE HYDRANTS CONFORMING TO CITY OF COLUMBUS STANDARDS WILL BE APPROVED FOR USE.
4. PUBLIC WATER LINES SHALL BE DISINPECTED BY THE CITY OF COLUMBUS DIVISION OF WATER. REQUESTS FOR WATER LINE CHLORINATION SHALL BE MADE THROUGH THE CITY OF DUBLIN DIVISION OF ENGINEERING. THE COST FOR CHLORINATION SHALL BE PAID FOR BY THE CONTRACTOR.
5. ALL WATER LINES SHALL BE DISINFECTED ACCORDING TO ITEM 801.13 OF THE STANDARD SPECIFICATIONS. SPECIAL ATTENTION IS DIRECTED TO APPLICABLE SECTIONS OF AMERICAN WATER WORKS ASSOCIATION SPECIFICATION C-651, PARTICULARLY FOR FLUSHING (SECTION 5) AND FOR CHLORINATION VALVES AND FIRE HYDRANTS (SECTION 7). PRESSURE TESTING SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 801.12 OF THE CITY OF COLUMBUS CONSTRUCTION AND MATERIAL SPECIFICATIONS. WHEN WATER LINES ARE READY FOR DISINFECTION, THE CITY OF DUBLIN SHALL SUBMIT TWO (2) SETS OF 745-BUILT PLANS AND A LETTER STATING THAT THE WATER LINES HAVE BEEN PRESSURE TESTED AND NEED TO BE DISINFECTED, TO THE CITY OF COLUMBUS DIVISION OF WATER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THE DISINFECTION. ALL WATER LINES CONSTRUCTION PER THIS PLAN, PRESSURE TESTING SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 801.12 OF THE CITY OF COLUMBUS CONSTRUCTION AND MATERIAL SPECIFICATIONS.
6. THE CONTRACTOR SHALL PAINT ALL FIRE HYDRANTS ACCORDING TO CITY OF DUBLIN STANDARDS. THE COST OF PAINTING FIRE HYDRANTS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR FIRE HYDRANTS.



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Table with project details: DEER RUN LAND, LLC; DEER RUN SUBAREA A AND B; GENERAL NOTES; SHEET 2 OF 28.

DRAWING PATH: P:\610_6060\611300\2-Dwg_Ren-Champlain\CityPlan_Cons\Subarea A&B\610600_01.dwg Date: 01/20/15 10:58am

VERTICAL SCALE: 1"=10'-0" HORIZONTAL SCALE: 1"=40'-0" DATE: 01/20/15 10:58am

WATER LINE (CONTINUED)

- NO WATER TAPS OR SERVICE CONNECTIONS (E.G., TO CURB STOPS OR METER PITS) MAY BE INSTALLED UNTIL ADJACENT PUBLIC WATER LINES SERVING THE CONSTRUCTION SITE HAVE BEEN DISINFECTED BY THE CITY OF COLUMBUS DIVISION OF WATER AND HAVE BEEN ACCEPTED BY THE CITY ENGINEER. A TAP PERMIT FOR EACH WATER SERVICE MUST BE OBTAINED FROM THE CITY OF DUBLIN AND THE CITY OF COLUMBUS DIVISION OF WATER BEFORE MAKING ANY TAPS INTO PUBLIC WATER LINES.
- THE CONTRACTOR SHALL NOTIFY THE CITY OF COLUMBUS DIVISION OF WATER AT 645-7788 AND THE CITY OF DUBLIN DIVISION OF ENGINEERING AT LEAST 24 HOURS BEFORE TAPPING INTO EXISTING WATER LINES.
- ALL WATER MAIN STATIONING SHALL BE BASED ON STREET CENTERLINE STATIONING.
- ALL BENDS, JOINT DEFLECTIONS AND FITTINGS SHALL BE BACKED WITH CONCRETE PER CITY OF COLUMBUS STANDARDS.
- THE CONTRACTOR SHALL GIVE WRITTEN NOTICE TO ALL AFFECTED PROPERTY OWNERS AT LEAST 1 WORKING DAY BUT NOT MORE THAN 3 WORKING DAYS PRIOR TO ANY TEMPORARY INTERRUPTION OF WATER SERVICE. INTERRUPTION OF WATER SERVICE SHALL BE MINIMIZED AND MUST BE APPROVED BY THE CITY ENGINEER.
- WATER METERS SHALL BE INSTALLED INSIDE PROPOSED STRUCTURES UNLESS A METER PIT INSTALLATION IS APPROVED BY THE CITY OF COLUMBUS DIVISION OF WATER. METER PITS MUST CONFORM TO STANDARD DRAWINGS L-7103, A&B FOR 5/8" THROUGH 1" METERS OR L-6517, A, B, C&D FOR 1-1/2" OR LARGER METERS.
- WATER LINES TO BE INSTALLED IN EMBANKMENT AREAS SHALL BE PLACED AFTER THE EMBANKMENT HAS BEEN PLACED AND COMPACTED ACCORDING TO THE STANDARD SPECIFICATIONS.
- CURB STOP BOXES SHALL BE LOCATED AT LEAST 1 FOOT INSIDE THE RIGHT-OF-WAY AND SET AT FINISHED GRADE.
- IF THE TOP OF THE OPERATING NUT OF ANY VALVE IS GREATER THAN 36 INCHES BELOW FINISHED GRADE, AN EXTENSION STEM SHALL BE FURNISHED TO BRING THE TOP OF THE OPERATING NUT TO WITHIN 24 INCHES OF FINISHED GRADE ELEVATION.
- ALL WATER LINES SHALL BE PLACED AT A MINIMUM DEPTH OF 4 FEET MEASURED FROM TOP OF FINISHED GRADE TO TOP OF WATER LINE. WATER LINES SHALL BE SET DEEPER AT ALL POINTS WHERE NECESSARY TO CLEAR EXISTING OR PROPOSED UTILITY LINES OR OTHER UNDERGROUND RESTRICTIONS BY A MINIMUM OF 18 INCHES.
- TWO 3/4 INCH TAPS SHALL BE INSTALLED WITHIN 2 FEET OF THE END OF THE LINE ON ALL DEAD-END WATER LINES.

STORM SEWERS

- ALL STORM WATER DETENTION AND RETENTION AREAS AND MAJOR FLOOD ROUTING SWALES SHALL BE CONSTRUCTED TO FINISH GRADE AND HYDRO-SEEDED AND HYDRO-MULCHED ACCORDING TO ITEMS 203 AND 659 OF THE STANDARD SPECIFICATIONS.
- WHERE PRIVATE STORM SEWERS CONNECT TO PUBLIC STORM SEWERS, THE LAST RUN OF PRIVATE STORM SEWER CONNECTING TO THE PUBLIC STORM SEWER SHALL BE REINFORCED CONCRETE PIPE CONFORMING TO ASTM DESIGNATION C76, WALL B, CLASS IV FOR PIPE DIAMETERS 12 INCHES TO 18 INCHES, CLASS III FOR 18 INCHES TO 24 INCH PIPES, AND 27 INCHES AND LARGER PIPE SHALL BE CLASS II, UNLESS OTHERWISE SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS. INSPECTION IS REQUIRED BY THE CITY OF DUBLIN'S DIVISION OF ENGINEERING.
- GRANULAR BACKFILL SHALL BE COMPACTED GRANULAR MATERIAL ACCORDING TO ITEM 912 OF THE STANDARD SPECIFICATIONS OR CONTROLLED DENSITY BACKFILL ACCORDING TO ITEM 636, TYPE II OF THE STANDARD SPECIFICATIONS AS DIRECTED BY THE CITY ENGINEER.
- ALL STORM SEWERS SHALL BE REINFORCED CONCRETE PIPE CONFORMING TO ASTM DESIGNATION C76, WALL B, CLASS IV FOR PIPE DIAMETERS 12 INCHES TO 15 INCHES, CLASS III FOR 18 INCHES TO 24 INCH PIPES, AND 27 INCHES AND LARGER PIPE SHALL BE CLASS II, UNLESS OTHERWISE SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS.
- HEADWALLS AND ENDWALLS SHALL BE REQUIRED AT ALL STORM SEWER INLETS OR OUTLETS TO AND FROM STORMWATER MANAGEMENT FACILITIES. NATURAL STONE AND/OR BRICK APPROVED BY THE CITY ENGINEER SHALL BE PROVIDED ON ALL VISIBLE HEADWALLS AND/OR ENDWALL SURFACES.
- STORM INLETS OR CATCH BASINS SHALL BE CHANNELIZED AND HAVE BICYCLE SAFE GRATES. MANHOLE LIDS SHALL INCLUDE CITY OF DUBLIN LOGO AND ALL CURB INLET AND CATCH BASIN GRATES SHALL INCLUDE ENGRAVED LETTERING: "DUMP NO WASTE; DRAINS TO RIVER."
- STORM SEWER OUTLETS GREATER THAN 18 INCHES IN DIAMETER ACCESSIBLE FROM STORMWATER MANAGEMENT FACILITIES OR WATERCOURSES SHALL BE PROVIDED WITH SAFETY GRATES, AS APPROVED BY THE CITY ENGINEER.

MAIL DELIVERY

- THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT US MAIL DELIVERY WITHIN THE PROJECT LIMITS IS NOT DISRUPTED BY CONSTRUCTION OPERATIONS. THIS RESPONSIBILITY IS LIMITED TO RELOCATION OF MAILBOXES TO A TEMPORARY LOCATION THAT WILL ALLOW THE COMPLETION OF THE WORK AND SHALL ALSO INCLUDE THE RESTORATION OF MAILBOXES TO THEIR ORIGINAL LOCATION OR APPROVED NEW LOCATION. ANY RELOCATION OF MAILBOX SERVICES MUST BE FIRST COORDINATED WITH THE US POSTAL SERVICE AND THE HOMEOWNER.
- BEFORE RELOCATING ANY MAILBOXES, THE CONTRACTOR SHALL CONTACT THE U.S. POSTAL SERVICE AND RELOCATE MAILBOXES ACCORDING TO THE REQUIREMENTS OF THE POSTAL SERVICE.

USE OF FIRE HYDRANTS

- THE CONTRACTOR SHALL MAKE PROPER ARRANGEMENTS WITH THE DUBLIN SERVICE DEPARTMENT AND THE COLUMBUS DIVISION OF WATER FOR THE USE OF FIRE HYDRANTS WHEN USED FOR WORK PERFORMED UNDER THIS CONTRACT AND PROVIDE THE CITY OF DUBLIN A COPY OF THE HYDRANT USAGE PERMIT OBTAINED FROM THE CITY OF COLUMBUS. THE CONTRACTOR SHALL ALSO SEND A COPIES OF PERMITS OBTAINED FROM DUBLIN AND COLUMBUS TO THE WASHINGTON AND/OR PERRY TOWNSHIP FIRE DEPARTMENT. PERMITS SHALL BE KEPT AT THE CONSTRUCTION SITE AT ALL TIMES.
- BEFORE THE FINAL ESTIMATE IS PAID, THE CONTRACTOR SHALL SUBMIT A LETTER FROM THE CITY OF COLUMBUS DIVISION OF WATER TO THE CITY ENGINEER STATING THAT THE CONTRACTOR HAS RETURNED THE SAME AS WAVE TO THE CITY OF COLUMBUS AND HAS PAID ALL COSTS ARISING FROM THE USE OF THE FIRE HYDRANTS.

CITY OF COLUMBUS WATERLINE NOTES

- FOR ANY EMERGENCIES INVOLVING THE WATER DISTRIBUTION SYSTEM, PLEASE CONTACT THE DIVISION OF WATER DISTRIBUTION MAINTENANCE OFFICE AT 614-645-7788.
- ALL BRASS FITTINGS ASSOCIATED WITH WATER WORK, INCLUDING REPAIRS TO THE EXISTING SYSTEM, SHALL CONFORM TO THE REVISED ALLOWABLE LEAD EXTRACTION LIMIT PER THE UPDATED NSF/ANSI 61 STANDARD. THE DIVISION OF WATER'S APPROVED MATERIALS LIST HAS BEEN UPDATED TO REFLECT THIS REQUIREMENT.
- IT SHALL BE UNLAWFUL FOR ANY PERSON TO PERFORM ANY WORK ON CITY OF COLUMBUS WATER LINE SYSTEMS WITHOUT FIRST SECURING LICENSE TO ENGAGE IN SUCH WORK, AS INDICATED IN COLUMBUS CITY CODE SECTION 1103.02 AND 1103.06. THIS WORK INCLUDES ANY ATTACHMENTS, ADDITIONS TO OR ALTERATIONS IN ANY CITY SERVICE PIPE OR APPURTENANCES (INCLUDING WATER SERVICE LINES AND TAPS). THIS REQUIREMENT MAY BE MET BY UTILIZATION OF A SUBCONTRACTOR WHO HOLDS A CITY OF COLUMBUS WATER CONTRACTOR LICENSE OR A COMBINED WATER/SEWER CONTRACTOR LICENSE TO PERFORM THIS WORK. UTILIZATION OF A SUBCONTRACTOR MUST MEET THE LICENSING REQUIREMENTS OF CITY OF COLUMBUS BUILDING CODE, IN PARTICULAR SECTION 4114.119 AND 4114.529.
- NO PERSON SHALL BEGIN CONSTRUCTION OR INSTALLATION OF A PUBLIC WATER MAIN UTIL PLANS HAVE BEEN APPROVED BY THE STATE OF OHIO ENVIRONMENTAL PROTECTION AGENCY (OEPA).
- THE CONTRACTOR SHALL OBTAIN THE PROPER HYDRANT PERMIT(S), AND PAY ANY APPLICABLE FEES, FOR ANY APPROVED HYDRANT USAGE DEEMED NECESSARY FOR WORK UNDER THIS IMPROVEMENT. PERMITS MAY BE OBTAINED THROUGH THE DIVISION OF WATER PERMIT OFFICE (645-7330). THE CONTRACTOR SHALL ADHERE TO ALL RULES & REGULATIONS GOVERNING SAID PERMIT AND MUST HAVE THE ORIGINAL PERMIT ON SITE ANYTIME IN WHICH THE HYDRANT IS IN USE. COST TO BE INCLUDED IN THE VARIOUS BID ITEMS.
- ALL WATER MAINS SHALL BE CLEANED AND FLUSHED, AND ANY WATER MAIN 12-INCH AND LARGER MUST BE PROPERLY PIGGED, IN ACCORDANCE WITH SECTION 801.13 OF THE CITY OF COLUMBUS, CONSTRUCTION AND MATERIAL SPECIFICATIONS.
- ALL WATER MAINS SHALL BE PRESSURE TESTED IN ACCORDANCE WITH SECTION 801.14 OF THE CITY OF COLUMBUS CONSTRUCTION AND MATERIAL SPECIFICATIONS, WITH THE FOLLOWING EXCEPTION: 150 PSI OF PRESSURE SHALL BE MAINTAINED FOR AT LEAST TWO HOURS IN ANY TESTED SECTION. THE CITY MAY NOT APPROVE ANY TEST LASTING LESS THAN TWO HOURS REGARDLESS OF THE AMOUNT OF LEAKAGE.
- ONLY ONE CONNECTION TO AN EXISTING WATER LINE IS PERMITTED BEFORE DISINFECTION OF A NEW WATER LINE HAS BEEN COMPLETED. ALL OTHER CONNECTIONS MUST BE MADE AFTER THE LINE HAS BEEN DISINFECTED.
- WHERE INDICATED ON THE PLANS, THE EXISTING WATER MAIN SHALL BE ABANDONED; AND ANY EXISTING WATER SERVICES OFF THIS MAIN SHALL BE TRANSFERRED TO THE NEW WATER MAIN. PRIOR TO ABANDONMENT OF THE EXISTING WATER MAIN, THE PROPOSED WATER MAIN SHALL BE PIGGED (IF REQUIRED), TESTED, CHLORINATED AND PUT IN SERVICE AND THEN THE EXISTING WATER SERVICES SHALL BE TRANSFERRED. THE CONTRACTOR SHALL MAINTAIN WATER SERVICES TO ALL PROPERTIES DURING CONSTRUCTION OF THE NEW WATER MAIN AND SHALL NOTIFY ALL CUSTOMERS AFFECTED BY THE TRANSFER OF SERVICES. TO ENSURE THAT ALL EXISTING SERVICES ARE TRANSFERRED TO THE NEW MAIN, NO WATER MAIN SHALL BE ABANDONED UNTIL THE NEW WATER MAIN HAS BEEN PUT IN SERVICE; ALL AFFECTED WATER SERVICES HAVE BEEN TRANSFERRED; AND THE EXISTING WATER MAIN TO BE ABANDONED HAS BEEN SHUT DOWN FOR 24 HOURS. ALL VISIBLE VALVE BOXES, FIRE HYDRANTS, AND SERVICE BOXES ON THE WATER MAIN TO BE ABANDONED, WHICH WILL NO LONGER BE IN SERVICE, SHALL BE REMOVED. ALL WATER MAINS TO BE ABANDONED SHALL BE MADE WATER TIGHT. THE REQUIRED SURFACE RESTORATION SHALL BE PAID FOR UNDER THE APPROPRIATE BID ITEM(S).
- WATER SERVICE BOXES SHALL BE PLACED 1' FROM THE EDGE OF THE PROPOSED OR EXISTING SIDEWALK BETWEEN THE SIDEWALK AND THE CURB, OR 2 FEET INSIDE THE RIGHT-OF-WAY OR EASEMENT LINE WHEN NO SIDEWALK IS PRESENT OR PROPOSED. REFER TO STANDARD DRAWING L-9607 FOR ADDITIONAL INFORMATION.
- MAINTAIN EIGHTEEN (18) INCHES VERTICAL AND TEN (10) FEET HORIZONTAL SEPARATION BETWEEN ANY SANITARY OR STORM SEWER PIPING AND ALL PROPOSED WATER MAINS.
- WHEN CONTROLLED DENSITY FILL (ITEM 613) IS TO BE USED AS BACKFILL, THE CONTRACTOR SHALL PROVIDE SIZE NO. 57 CRUSHED CARBONATE STONE (CCS) 1 FOOT BELOW TO 1 FOOT ABOVE THE EXISTING WATER LINE.
- "SURVEY COORDINATES" SHALL INCLUDE ALL MATERIAL, EQUIPMENT, AND LABOR NECESSARY TO OBTAIN HORIZONTAL AND VERTICAL (NORTHING, EASTING, AND ELEVATION) SURVEY COORDINATES FOR THE WATER MAIN IMPROVEMENTS. THE SURVEY COORDINATES SHALL BE OBTAINED FOR THE COMPLETED WATER MAIN CONSTRUCTION AND SHALL INCLUDE ALL VALVES, TEES, CROSSES, BENDS, DEFLECTIONS, PLUGS, REDUCERS, TAPPING SLEEVES, BLOW OFFS, CHLORINATION TAPS, FIRE HYDRANTS, AIR RELEASES, CURB STOPS, CASING PIPE TERMINAL, AND OTHER FITTINGS. ADDITIONAL SURVEY COORDINATES ARE REQUIRED ON THE WATER MAIN EVERY 500 WHERE NO FITTING OR OTHER WATER MAIN STRUCTURE IS BEING INSTALLED WITHIN THAT LENGTH OF THE IMPROVEMENT.

ALL SURVEY COORDINATES SHALL BE REFERENCED TO THE APPLICABLE COUNTY ENGINEER'S MONUMENTS, AND SHALL BE BASED ON THE NORTH AMERICAN DATUM OF 1983 (NAD 83) WITH THE (NSRS2007) ADJUSTMENT, WITH FURTHER REFERENCE MADE TO THE OHIO STATE PLANE SOUTH COORDINATE SYSTEM, SOUTH ZONE, WITH ELEVATIONS BASED ON NAVD 88 DATUM. ALL COORDINATES (NORTHING, EASTING, ELEVATION) SHALL BE REFERENCED TO THE NEAREST HUNDRETH (N XXXXXX.X, E XXXXXX.X, ELEV XXXXX). ALL SURVEY COORDINATES SHALL BE ACCURATE TO WITHIN 1.0 FOOT HORIZONTAL AND A TENTH OF A FOOT (0.10) OR LESS VERTICAL.

THE COORDINATES SHALL BE DOCUMENTED TO THE MUNICIPALITY ENGINEER OR DESIGNATED REPRESENTATIVE IN DIGITAL SPREADSHEET FORM AND SHALL INCLUDE THE APPLICABLE ITEM, STATION, NORTHING, EASTING, AND ELEVATION. COORDINATES SHALL BE SUBMITTED TO THE MUNICIPALITY ENGINEER OR DESIGNATED REPRESENTATIVE ON A BIWEEKLY BASIS. COORDINATES SHALL ALSO BE REQUIRED TO BE SUBMITTED TO THE DIVISION OF WATER AS PART OF THE REQUEST FOR CHLORINATION.

LUMP SUM PAYMENT IS FULL COMPENSATION FOR ALL WORK INVOLVED IN OBTAINING AND DOCUMENTING THE SURVEY COORDINATES AS DESCRIBED IN THIS SPECIFICATION.



880 North Fourth Street, SUITE 600
Columbus, Ohio 43215
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OHM-ADVISORS.COM

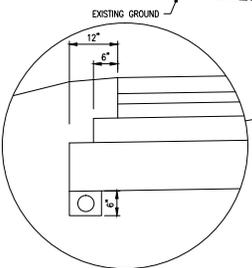
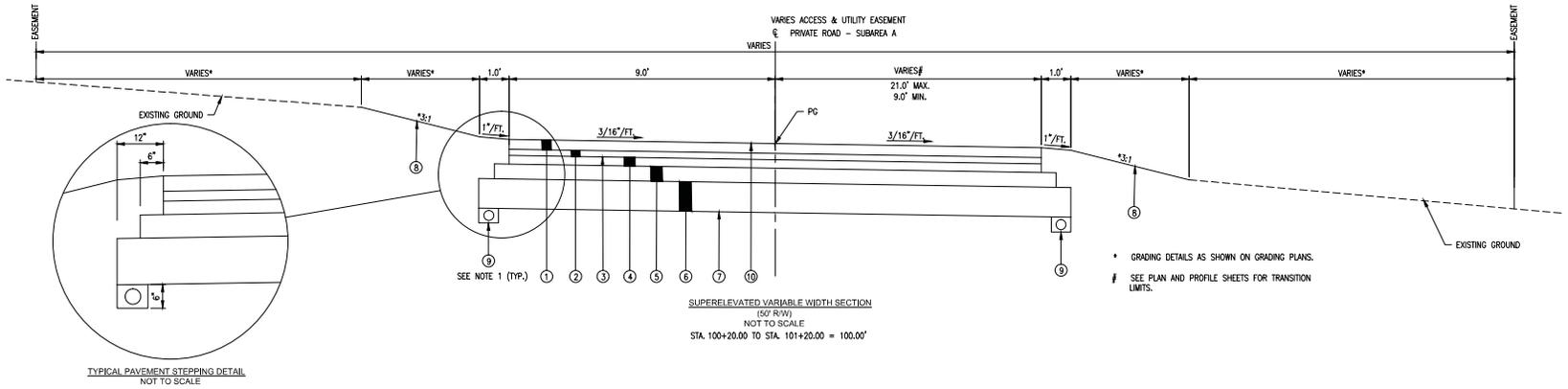
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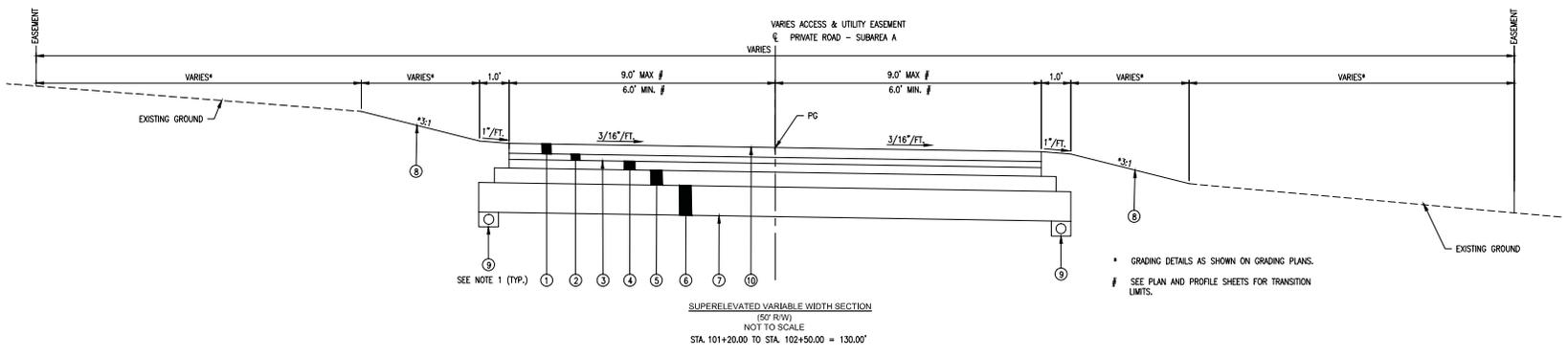
DEER RUN LAND, LLC
DEER RUN SUBAREA A AND B
GENERAL NOTES

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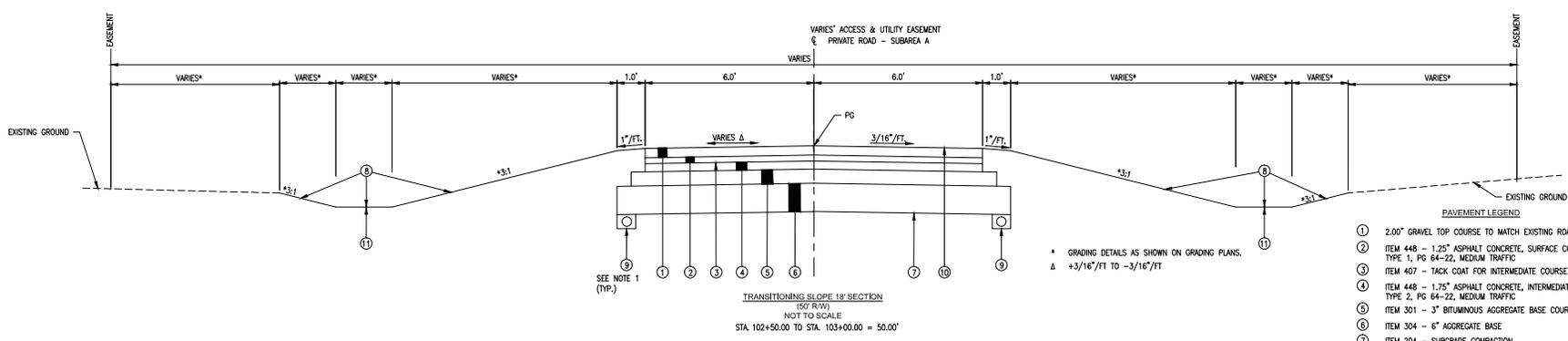
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* GRADING DETAILS AS SHOWN ON GRADING PLANS.
 # SEE PLAN AND PROFILE SHEETS FOR TRANSITION LIMITS.



* GRADING DETAILS AS SHOWN ON GRADING PLANS.
 # SEE PLAN AND PROFILE SHEETS FOR TRANSITION LIMITS.



TRANSITIONING SLOPE 18\"/>

* GRADING DETAILS AS SHOWN ON GRADING PLANS.
 Δ +3/16\"/>

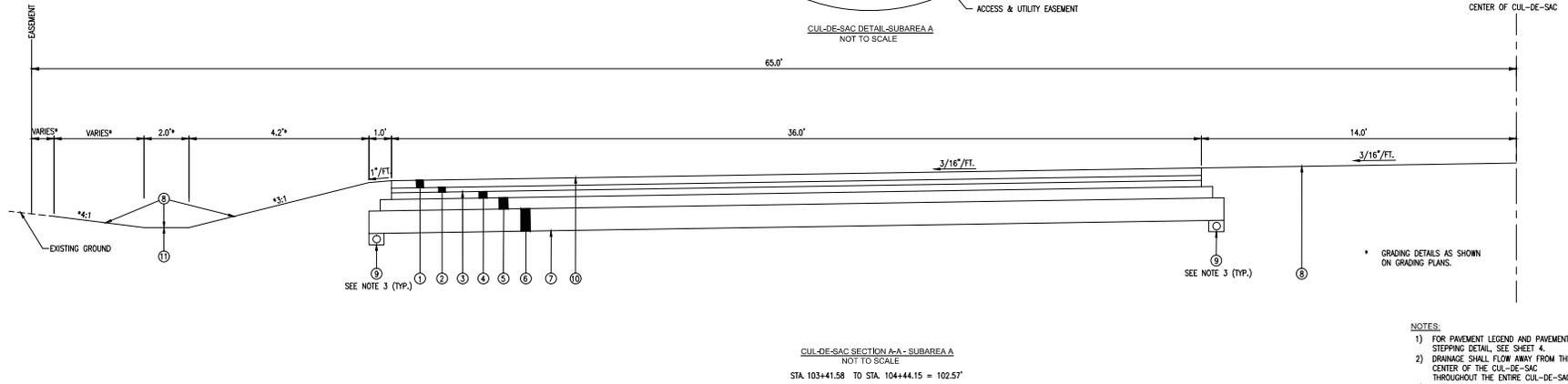
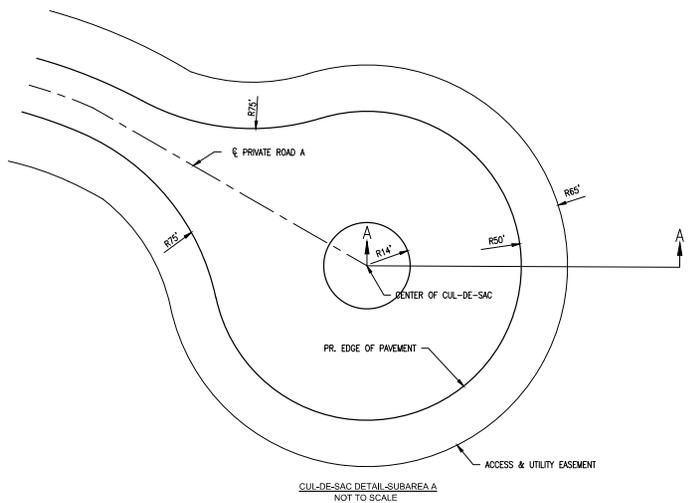
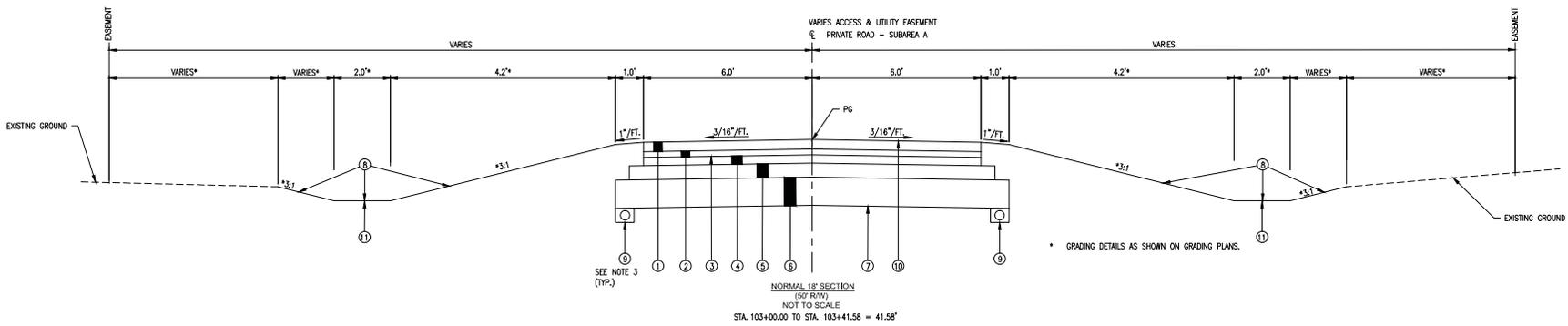
- PAVEMENT LEGEND**
- ① 2.00\"/>

NOTE:
 1) UNDERDRAINS SHALL OUTLET INTO DITCH.

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 TIME: 10:29 AM
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 PROJECT: DEER RUN LAND, LLC
 SHEET: 4 OF 28

DEER RUN LAND, LLC
 DEER RUN SUBAREA A AND B
 TYPICAL SECTIONS - SUBAREA A



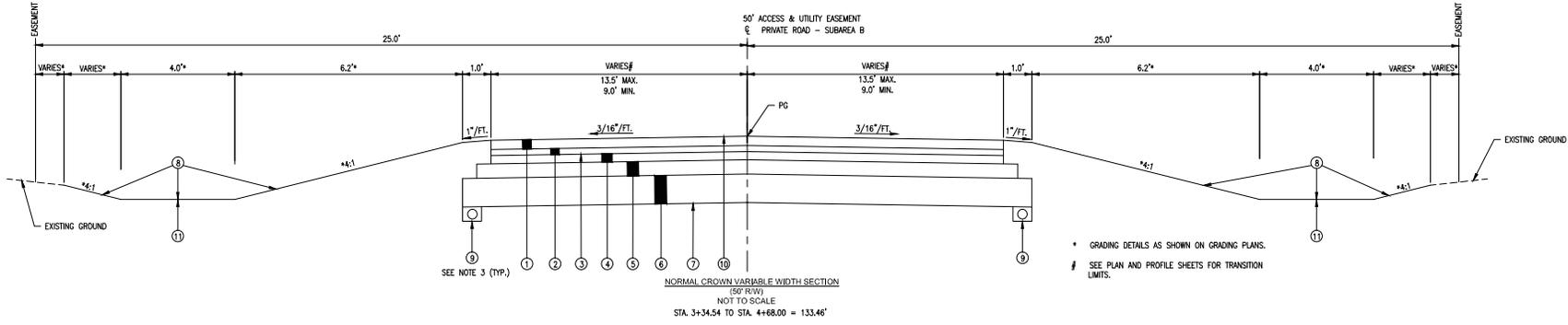
- NOTES:
- 1) FOR PAVEMENT LEGEND AND PAVEMENT STEPPING DETAIL, SEE SHEET 4.
 - 2) DRAINAGE SHALL FLOW AWAY FROM THE CENTER OF THE CUL-DE-SAC THROUGHOUT THE ENTIRE CUL-DE-SAC.
 - 3) UNDERDRAINS SHALL OUTLET INTO DITCH.

DEER RUN LAND, LLC
 DEER RUN SUBAREA A AND B
 TYPICAL SECTIONS - SUBAREA A

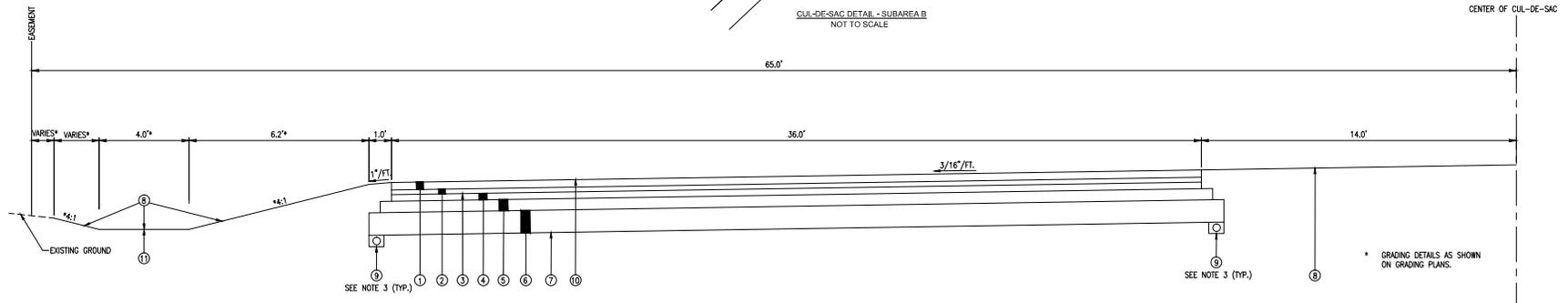
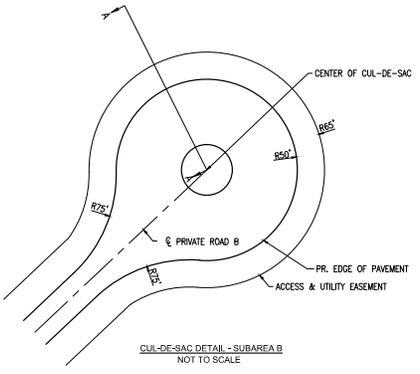
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* GRADING DETAILS AS SHOWN ON GRADING PLANS.
 # SEE PLAN AND PROFILE SHEETS FOR TRANSITION LIMITS.



- NOTES:
- 1) FOR PAVEMENT LEGEND AND PAVEMENT STEPPING DETAIL, SEE SHEET 6.
 - 2) DRAINAGE SHALL FLOW AWAY FROM THE CENTER OF THE CUL-DE-SAC THROUGHOUT THE ENTIRE CUL-DE-SAC.
 - 3) UNDERDRAINS SHALL OUTLET INTO DITCH.

DEER RUN LAND, LLC
 DEER RUN SUBAREA A AND B
 TYPICAL SECTIONS - SUBAREA B, PRELIMINARY AND FINAL

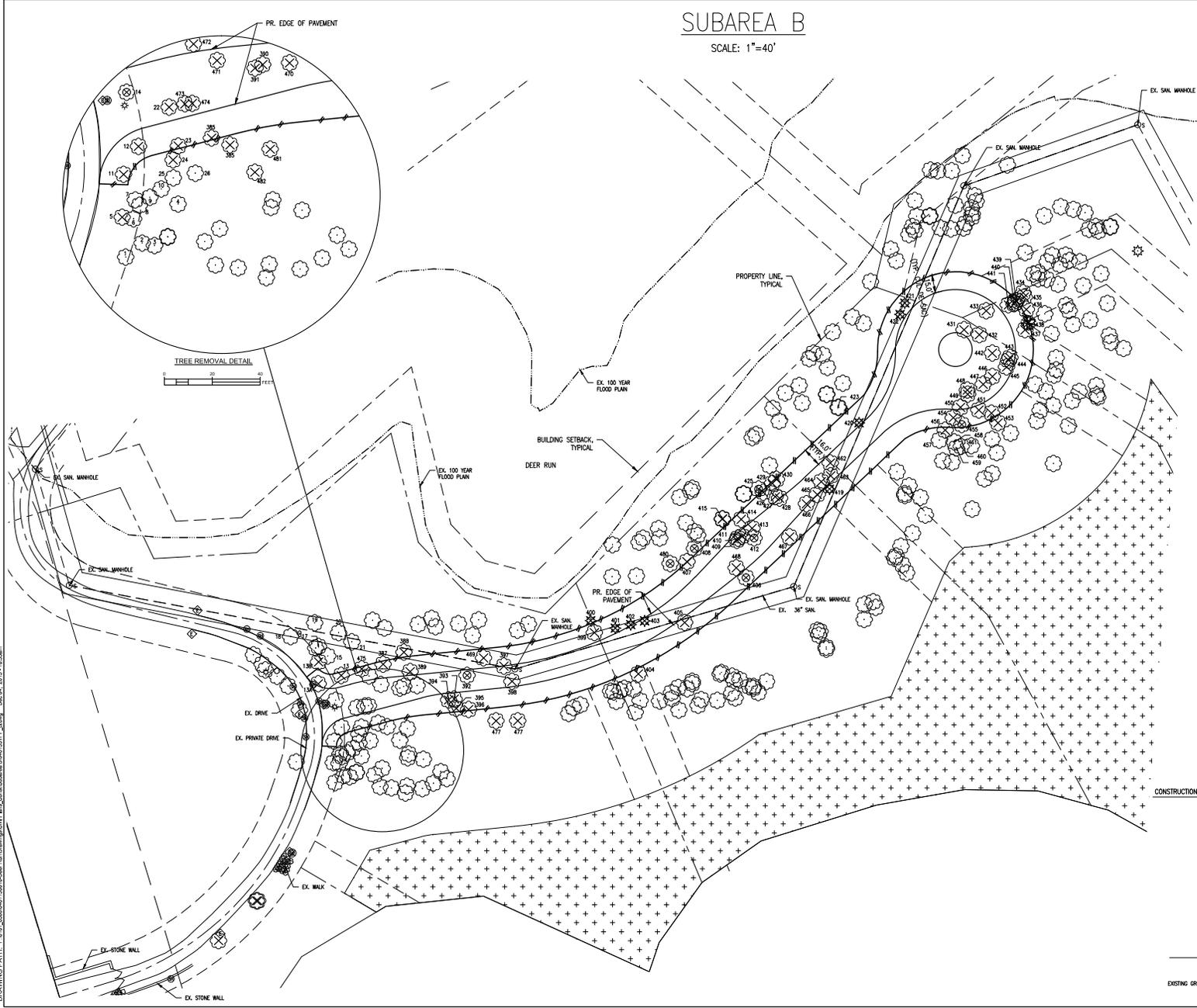
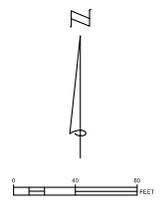
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TREE SURVEY DATA TABLE - SUBAREA A						
REMOVED	TREE NO.	REF (SH CODE)	INCHES	INCHES REMOVED	INCHES REPLACED	NOTES
	228	21	DECEADUS	-	-	
	229	22	DECEADUS	-	-	OVER LANDMARK SIDE
	230	4	DECEADUS	-	-	
	231	16	DECEADUS	-	-	
	232	8	DECEADUS	-	-	
	233	16	DECEADUS	-	-	
	234	7	DECEADUS	-	-	
	235	8	DECEADUS	-	-	
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	237	7	DECEADUS	-	-	
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	317	17	DECEADUS	-	-	
	318	7	DECEADUS	-	-	

TREE SURVEY DATA TABLE - SUBAREA A						
REMOVED	TREE NO.	REF (SH CODE)	INCHES	INCHES REMOVED	INCHES REPLACED	NOTES
	319	15	DECEADUS	-	-	
	320	15	DECEADUS	-	-	
	321	18	DECEADUS	-	-	
	322	9	DECEADUS	-	-	
	323	20	DECEADUS	-	-	
	324	7	DECEADUS	-	-	
	325	8	DECEADUS	-	-	
	326	7	DECEADUS	-	-	
	327	13	DECEADUS	-	-	OVER LANDMARK SIDE
	328	11	DECEADUS	-	-	
	329	9	DECEADUS	-	-	
	330	16	DECEADUS	-	-	
	331	16	DECEADUS	-	-	
	332	7	DECEADUS	-	-	
	333	15	DECEADUS	-	-	
	334	7	DECEADUS	-	-	
	335	8	DECEADUS	-	-	
	336	26	DECEADUS	-	-	
	337	8	DECEADUS	-	-	OVER LANDMARK SIDE
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	339	8	DECEADUS	-	-	
	340	14	DECEADUS	-	-	
	341	8	DECEADUS	-	-	
	342	13	DECEADUS	-	-	OVER LANDMARK SIDE
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	345	13	DECEADUS	-	-	
	346	10	DECEADUS	-	-	
	347	7	DECEADUS	-	-	
	348	16	DECEADUS	-	-	
	349	15	DECEADUS	-	-	OVER LANDMARK SIDE
	350	10	DECEADUS	-	-	
	351	7	DECEADUS	-	-	
	352	16	DECEADUS	-	-	
	353	15	DECEADUS	-	-	
	354	15	DECEADUS	-	-	
	355	16	DECEADUS	-	-	
	356	10	DECEADUS	-	-	
	357	7	DECEADUS	-	-	
	358	16	DECEADUS	-	-	
	359	10	DECEADUS	-	-	
	360	10	DECEADUS	-	-	
	361	25	DECEADUS	-	-	
	362	10	DECEADUS	-	-	
	363	9	DECEADUS	-	-	
	364	7	DECEADUS	-	-	
	365	7	DECEADUS	-	-	
	366	17	DECEADUS	-	-	
	367	7	DECEADUS	-	-	
	368	9	DECEADUS	-	-	
	369	10	DECEADUS	-	-	
	370	10	DECEADUS	-	-	
	371	10	DECEADUS	-	-	
	372	10	DECEADUS	-	-	
	373	10	DECEADUS	-	-	
	374	10	DECEADUS	-	-	
	375	10	DECEADUS	-	-	
	376	10	DECEADUS	-	-	
	377	10	DECEADUS	-	-	
	378	10	DECEADUS	-	-	
	379	10	DECEADUS	-	-	
	380	10	DECEADUS	-	-	
	381	10	DECEADUS	-	-	
	382	10	DECEADUS	-	-	
	383	10	DECEADUS	-	-	
	384	10	DECEADUS	-	-	
	385	10	DECEADUS	-	-	
	386	10	DECEADUS	-	-	
	387	10	DECEADUS	-	-	
	388	10	DECEADUS	-	-	
	389	10	DECEADUS	-	-	
	390	10	DECEADUS	-	-	
	391	10	DECEADUS	-	-	
	392	10	DECEADUS	-	-	
	393	10	DECEADUS	-	-	
	394	10	DECEADUS	-	-	
	395	10	DECEADUS	-	-	
	396	10	DECEADUS	-	-	
	397	10	DECEADUS	-	-	
	398	10	DECEADUS	-	-	
	399	10	DECEADUS	-	-	
	400	10	DECEADUS	-	-	
	401	10	DECEADUS	-	-	
	402	10	DECEADUS	-	-	
	403	10	DECEADUS	-	-	
	404	10	DECEADUS	-	-	
	405	10	DECEADUS	-	-	
	406	10	DECEADUS	-	-	
	407	10	DECEADUS	-	-	
	408	10	DECEADUS	-	-	
	409	10	DECEADUS	-	-	
	410	10	DECEADUS	-	-	
	411	10	DECEADUS	-	-	
	412	10	DECEADUS	-	-	
	413	10	DECEADUS	-	-	
	414	10	DECEADUS	-	-	
	415	10	DECEADUS	-	-	
	416	10	DECEADUS	-	-	
	417	10	DECEADUS	-	-	
	418	10	DECEADUS	-	-	
	419	10	DECEADUS	-	-	
	420	10	DECEADUS	-	-	
	421	10	DECEADUS	-	-	
	422	10	DECEADUS	-	-	
	423	10	DECEADUS	-	-	
	424	10	DECEADUS	-	-	
	425	10	DECEADUS	-	-	
	426	10	DECEADUS	-	-	
	427	10	DECEADUS	-	-	
	428	10	DECEADUS	-	-	
	429	10	DECEADUS	-	-	
	430	10	DECEADUS	-	-	
	431	10	DECEADUS	-	-	
	432	10	DECEADUS	-	-	
	433	10	DECEADUS	-	-	
	434	10	DECEADUS	-	-	
	435	10	DECEADUS	-	-	
	436	10	DECEADUS	-	-	
	437	10	DECEADUS	-	-	
	438	10	DECEADUS	-	-	
	439	10	DECEADUS	-	-	
	440	10	DECEADUS	-	-	
	441	10	DECEADUS	-	-	
	442	10	DECEADUS	-	-	
	443	10	DECEADUS	-	-	
	444	10	DECEADUS	-	-	
	445	10	DECEADUS	-	-	
	446	10	DECEADUS	-	-	
	447	10	DECEADUS	-	-	
	448	10	DECEADUS	-	-	
	449	10	DECEADUS	-	-	
	450	10	DECEADUS	-	-	
	451	10	DECEADUS	-	-	
	452	10	DECEADUS	-	-	
	453	10	DECEADUS	-	-	
	454	10	DECEADUS	-	-	
	455	10	DECEADUS	-	-	
	456	10	DECEADUS	-	-	
	457	10	DECEADUS	-	-	
	458	10	DECEADUS	-	-	
	459	10	DECEADUS	-	-	
	460	10	DECEADUS	-	-	
	461	10	DECEADUS	-	-	
	462	10	DECEADUS	-	-	
	463	10	DECEADUS	-	-	
	464	10	DECEADUS	-	-	
	465	10	DECEADUS	-	-	
	466	10	DECEADUS	-	-	
	467	10	DECEADUS	-	-	
	468	10	DECEADUS	-	-	
	469	10	DECEADUS	-	-	
	470	10	DECEADUS	-	-	
	471	10	DECEADUS	-	-	
	472	10	DECEADUS	-	-	
	473	10	DECEADUS	-	-	
	474	10	DECEADUS	-	-	
	475	10	DECEADUS	-	-	
	476	10	DECEADUS	-	-	
	477	10	DECEADUS	-	-	
	478	10	DECEADUS	-	-	
	479	10	DECEADUS	-	-	
	480	10	DECEADUS	-	-	
	481	10	DECEADUS	-	-	
	482	10	DECEADUS	-	-	

SUBAREA B

SCALE: 1"=40'



LEGEND

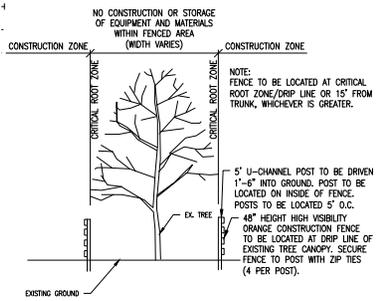
- EX. DECIDUOUS TREE
- EX. CONIFEROUS TREE
- EX. DEAD TREE
- EX. DECIDUOUS SHRUB
- TREE TO BE REMOVED
- TREE TO BE REMOVED & REPLACED

- TREE PROTECTION FENCE (SEE DETAIL 1 ON THIS SHEET)
- EX. TREE PRESERVATION AREA (DO NOT DISTURB)

TREE PROTECTION NOTES

1. ALL TREES WITHIN THE CONSTRUCTION AREA NOT SPECIALLY DESIGNATED FOR REMOVAL SHALL BE PRESERVED, WHETHER SHOWN OR NOT SHOWN ON THE CONSTRUCTION DRAWINGS.
2. TREES TO BE PRESERVED SHALL BE PROTECTED WITH HIGH VISIBILITY FENCING PLACED A MINIMUM OF 15 FEET FROM THE TREE TRUNK. TREES WITH DIAMETER BREAST HEIGHT OF 8 INCHES OR GREATER MUST BE PROTECTED WITH FENCING PLACED AT THE CRITICAL ROOT ZONE OR 15 FEET, WHICHEVER IS GREATER.
3. TREES NOT INDICATED ON THE APPROVED CONSTRUCTION DRAWINGS FOR REMOVAL MAY NOT BE REMOVED WITHOUT PRIOR APPROVAL OF THE DIVISION OF ENGINEERING.

DETAIL 1: TREE PROTECTION FENCE
NTS



DRAWING PATH: P:\110_62006481\1001102\Draw\10\Drawings\CD\Plan_Cross\Subarea B.dwg Dec 14, 2015, 10:36am

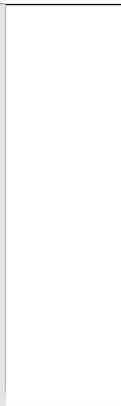
OHM
ARCHITECTS ENGINEERS PLANNERS
580 North Fourth Street, SUITE 630
Columbus, Ohio 43215
P (614) 418-9821 F (614) 418-0614
OHM-ADVISORS.COM

DATE: _____
SCALE: _____
SHEET: _____

DEER RUN LAND, LLC
DEER RUN SUBAREA A AND B
TREE PRESERVATION & REMOVAL PLAN - SUBAREA B

TREE SURVEY DATA TABLE - SUBAREA B						
REMOVED	TREE NO.	SIZE (DBH INCHES)	INDICATOR	INCHES REMOVED	INCHES REPLACED	NOTES
	1	13	DECIDUOUS	-	-	
	2	13	DECIDUOUS	-	-	
	3	12	DECIDUOUS	-	-	
	4	7	DECIDUOUS	-	-	
X	5	10	DECIDUOUS	10	-	
	6	9	DECIDUOUS	-	-	
	7	7	DECIDUOUS	-	-	
	8	10	DECIDUOUS	-	-	
	9	7	DECIDUOUS	-	-	
	10	14	DECIDUOUS	-	-	
X	11	7	DECIDUOUS	7	-	
X	12	13	DECIDUOUS	13	-	
X	13	9	DECIDUOUS	9	-	
X	13A	6	DECIDUOUS	6	-	
X	13B	5	DECIDUOUS	5	-	
X	14	20	DECIDUOUS	20	20	
	15	16	DECIDUOUS	-	-	
	16		DECIDUOUS	-	-	NOT USED
	17	13	DECIDUOUS	-	-	
	18	16	DECIDUOUS	-	-	
	19	20	DECIDUOUS	-	-	
X	20	7	DECIDUOUS	7	-	
	21	11	DECIDUOUS	-	-	
X	22	16	DECIDUOUS	16	-	
X	23	11	DECIDUOUS	11	-	
X	24	12	DECIDUOUS	12	-	
	25	10	DECIDUOUS	-	-	
X	25	9	DECIDUOUS	9	-	
X	265	13	DECIDUOUS	13	-	
X	266	11	DECIDUOUS	11	-	
X	267	9	DECIDUOUS	9	-	
X	268	12	DECIDUOUS	12	-	
X	269	17	DECIDUOUS	17	-	
X	270	9	DECIDUOUS	9	-	
X	271	11	DECIDUOUS	11	-	
X	272	18	DECIDUOUS	18	18	
X	283	15	DECIDUOUS	15	-	
X	284	14	DECIDUOUS	14	-	
X	285	8	DECIDUOUS	8	-	
X	286	13	DECIDUOUS	13	-	
X	287	8	DECIDUOUS	8	-	
X	288	9	DECIDUOUS	9	-	
X	289	8	DECIDUOUS	8	-	
X	400	7	CONIFEROUS	7	-	
X	401	8	CONIFEROUS	8	-	
X	402	9	CONIFEROUS	9	-	
X	403	11	CONIFEROUS	11	-	
	404	10	DECIDUOUS	-	-	
X	405	8	DECIDUOUS	8	-	
X	406	24	DECIDUOUS	24	24	
X	407	16	DECIDUOUS	16	-	
X	408	19	DECIDUOUS	19	19	
X	409	8	DECIDUOUS	8	-	
X	410	15	DECIDUOUS	15	-	
X	411	19	DECIDUOUS	19	-	
X	412	19	DECIDUOUS	19	19	
X	413	17	DECIDUOUS	17	-	
X	414	14	DECIDUOUS	14	-	
X	415	11	DECIDUOUS	11	-	
X	416		DECIDUOUS	-	-	NOT USED
	417		DECIDUOUS	-	-	NOT USED
	418		DECIDUOUS	-	-	NOT USED
X	419	18	CONIFEROUS	18	18	
X	420	10	CONIFEROUS	10	-	
X	421	9	CONIFEROUS	9	-	
X	422	9	CONIFEROUS	9	-	
X	423	18	DECIDUOUS	18	18	
X	424		DECIDUOUS	-	-	NOT USED
X	425	19	DECIDUOUS	19	19	
X	426	8	DECIDUOUS	8	-	
X	427	7	DECIDUOUS	7	-	
X	428	17	DECIDUOUS	17	-	
X	429	16	DECIDUOUS	16	-	
X	430	13	DECIDUOUS	13	-	
X	431	14	DECIDUOUS	14	-	
X	432	18	DECIDUOUS	18	-	
X	433	10	DECIDUOUS	10	-	
	434	14	DECIDUOUS	-	-	
	435	8	DECIDUOUS	-	-	
X	436	7	DECIDUOUS	7	-	
X	437	5	DECIDUOUS	5	-	
X	438	7	DECIDUOUS	7	-	
X	439	6	DECIDUOUS	6	-	
X	440	7	DECIDUOUS	7	-	
X	441	6	DECIDUOUS	6	-	
X	442	9	DECIDUOUS	9	-	
X	443	11	DECIDUOUS	11	-	
X	444	9	DECIDUOUS	9	-	
X	445	8	DECIDUOUS	8	-	
X	446	14	DECIDUOUS	14	-	
X	447	10	DECIDUOUS	10	-	
X	448	11	DECIDUOUS	11	-	
X	449	9	DECIDUOUS	9	-	
X	450	8	DECIDUOUS	8	-	
X	451	8	DECIDUOUS	8	-	
X	452	15	DECIDUOUS	15	-	
X	453	8	DECIDUOUS	8	-	
X	454	7	DECIDUOUS	7	-	
X	455	22	DECIDUOUS	22	22	
X	456	8	DECIDUOUS	8	-	
X	457	12	DECIDUOUS	12	-	
X	458	7	DECIDUOUS	7	-	

TREE SURVEY DATA TABLE - SUBAREA B						
REMOVED	TREE NO.	SIZE (DBH INCHES)	INDICATOR	INCHES REMOVED	INCHES REPLACED	NOTES
X	459	10	DECIDUOUS	10	-	
X	460	11	DECIDUOUS	11	-	
	461	9	DECIDUOUS	-	-	
X	462	11	DECIDUOUS	11	-	
X	463	9	DECIDUOUS	9	-	
X	464	6	DECIDUOUS	6	-	
X	465	7	DECIDUOUS	7	-	
X	466	10	DECIDUOUS	10	-	
X	467	7	DECIDUOUS	7	-	
X	468	7	DECIDUOUS	7	-	
X	469	8	DECIDUOUS	8	-	
X	470	9	DECIDUOUS	9	-	
X	471	7	DECIDUOUS	7	-	
X	472	16	DECIDUOUS	16	-	
X	473	10	DECIDUOUS	10	-	
X	474	7	DECIDUOUS	7	-	
X	475	16	DECIDUOUS	16	-	
X	476	12	DECIDUOUS	12	-	
X	477	10	DECIDUOUS	10	-	
X	480	34	DECIDUOUS	34	34	
X	481	12	DECIDUOUS	12	-	
X	482	8	DECIDUOUS	8	-	
*ANY TREES IN GOOD OR FAIR CONDITION GREATER THAN 10" DBH REMOVED FROM THE SITE SHALL BE REPLACED IN-SPECIES. TOTAL INCHES TO BE REPLACED EXCLUDES DEAD/POOR CONDITION TREES.				TOTAL INCHES REMOVED	1141	
				TOTAL INCHES TO BE REPLACED*	211	
NUMBER OF 2" CALIPER SIZE TREES REQUIRED FOR REPLACEMENT					84	

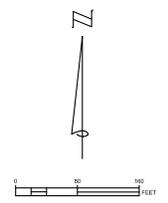
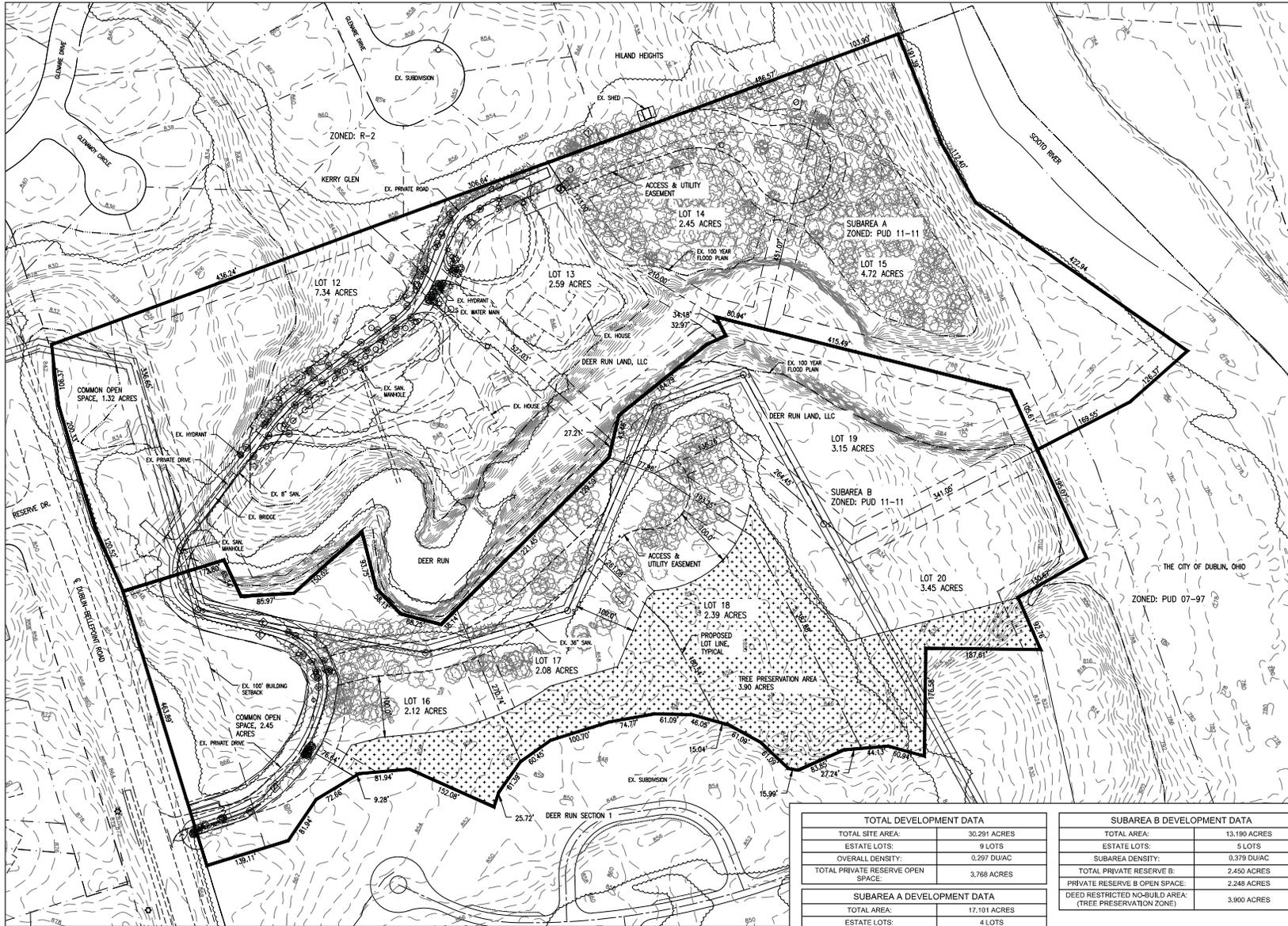


DEER RUN LAND, LLC
DEER RUN SUBAREA A AND B
TREE SURVEY DATA TABLE - SUBAREA B

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OVERALL SITE PLAN

SCALE: 1"=80'



OHM
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 580 North Fourth Street, SUITE 630
 Columbus, Ohio 43215
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- LEGEND**
- EX. DECIDUOUS TREE
 - EX. CONIFEROUS TREE
 - EX. DEAD TREE
 - EX. DECIDUOUS SHRUB
 - EX. STUMP
 - EX. LIGHTING
 - EX. CABLE RISER
 - EX. TELEPHONE RISER
 - EX. TRANSFORMER PAD
 - EX. BOULDER
 - EX. SPRINKLER HEAD
 - SUBAREA BOUNDARY

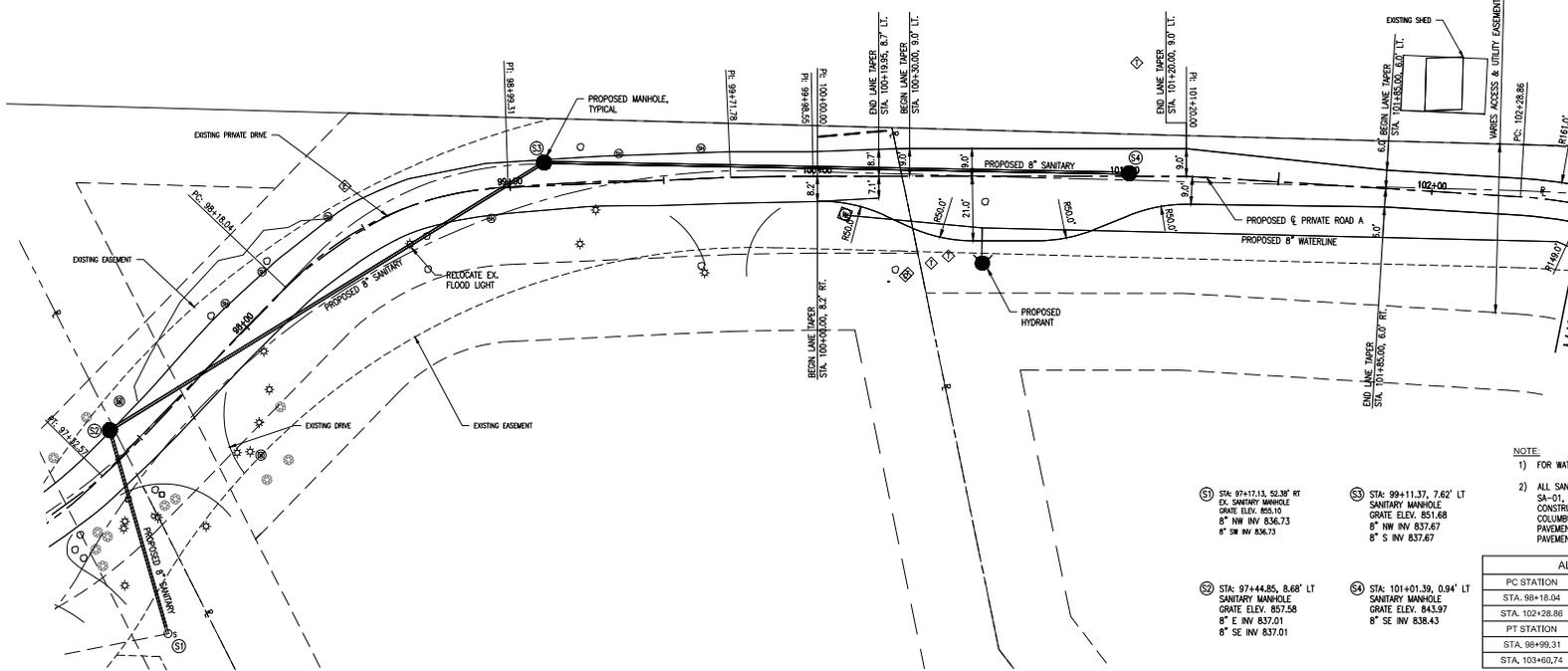
TOTAL DEVELOPMENT DATA	
TOTAL SITE AREA:	30.291 ACRES
ESTATE LOTS:	9 LOTS
OVERALL DENSITY:	0.297 DU/AC
TOTAL PRIVATE RESERVE OPEN SPACE:	3.768 ACRES
SUBAREA A DEVELOPMENT DATA	
TOTAL AREA:	17.101 ACRES
ESTATE LOTS:	4 LOTS
SUBAREA DENSITY:	0.234 DU/AC
TOTAL PRIVATE RESERVE A:	1.318 ACRES
PRIVATE RESERVE A OPEN SPACE:	1.233 ACRES

SUBAREA B DEVELOPMENT DATA	
TOTAL AREA:	13.190 ACRES
ESTATE LOTS:	5 LOTS
SUBAREA DENSITY:	0.379 DU/AC
TOTAL PRIVATE RESERVE B:	2.450 ACRES
PRIVATE RESERVE B OPEN SPACE:	2.248 ACRES
DEED RESTRICTED NO-BUILD AREA: (TREE PRESERVATION ZONE)	3.900 ACRES

DRAWING PATH: P:\FILES_608048\15801202\Deer Run\Drawings\15801202_Overall\Overall.dwg Date: 04/20/15 10:58am

SHEET

DEER RUN LAND, LLC
 DEER RUN SUBAREA A AND B
 OVERALL SITE PLAN

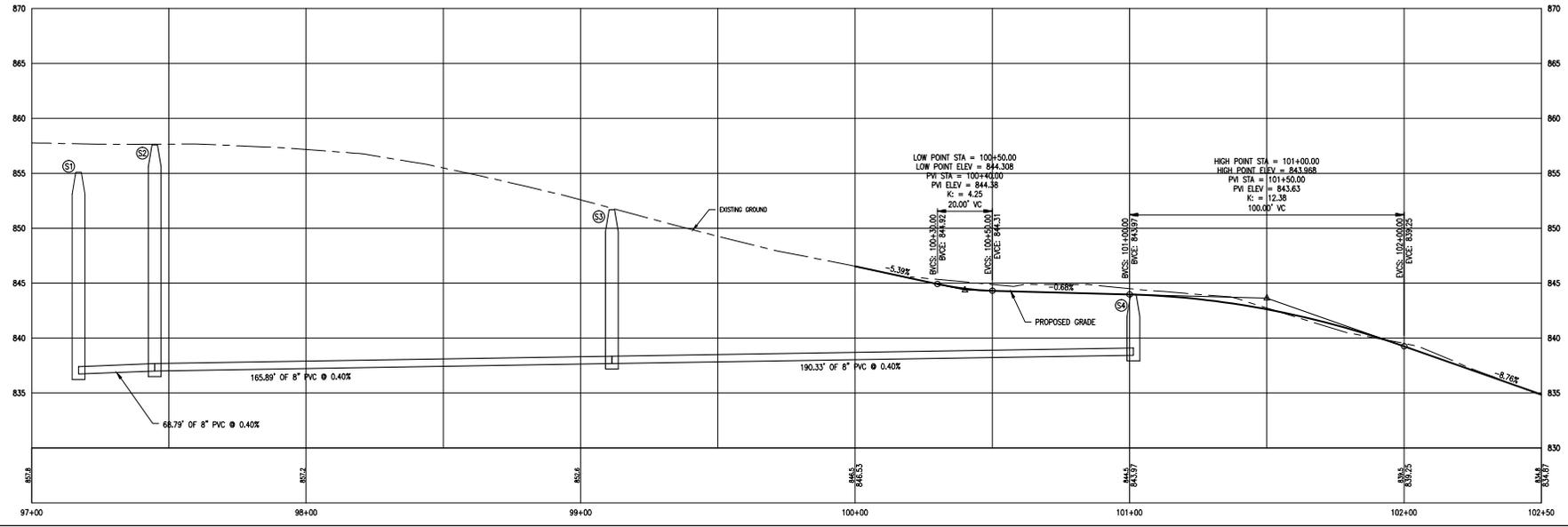


CURVE DATA 1		CURVE DATA 2	
P.I. STA.	99+60.88	P.I. STA.	102+99.09
Δ	44°46'20"	Δ	48°44'51"
R	194.00'	R	155.00'
T	42.84'	T	20.22'
L	81.27'	L	131.88'
E	8.48'	E	15.17'
C	79.22'	C	122.93'
C.B. = N 44°07'26" E		C.B. = S 83°45'59" E	

- NOTE:**
- FOR WATER MAIN DETAILS, SEE SHEETS 20 AND 21
 - ALL SANITARY MANHOLES ARE TO BE CONSTRUCTED PER SA-01, SA-02 AND SA-04 OF DUBLIN'S STANDARD CONSTRUCTION DRAWINGS AND TO FOLLOW CITY OF COLUMBUS' STANDARD CONSTRUCTION DRAWING AA-5150. PAVEMENT BUILD-UP FOR TRENCH SHALL MATCH EXISTING PAVEMENT BUILD-UP.

- ⑤ STA: 97+17.13, 62.38' RT
 8" SANITARY MANHOLE
 GRATE ELEV. 852.10
 8" NW INV 836.73
 8" S INV 836.73
- ⑥ STA: 97+44.85, 8.68' LT
 8" SANITARY MANHOLE
 GRATE ELEV. 857.58
 8" E INV 837.01
 8" SE INV 837.01
- ⑦ STA: 99+11.37, 7.62' LT
 8" SANITARY MANHOLE
 GRATE ELEV. 851.68
 8" NW INV 837.67
 8" S INV 837.67
- ⑧ STA: 101+01.39, 0.94' LT
 8" SANITARY MANHOLE
 GRATE ELEV. 843.97
 8" SE INV 838.43

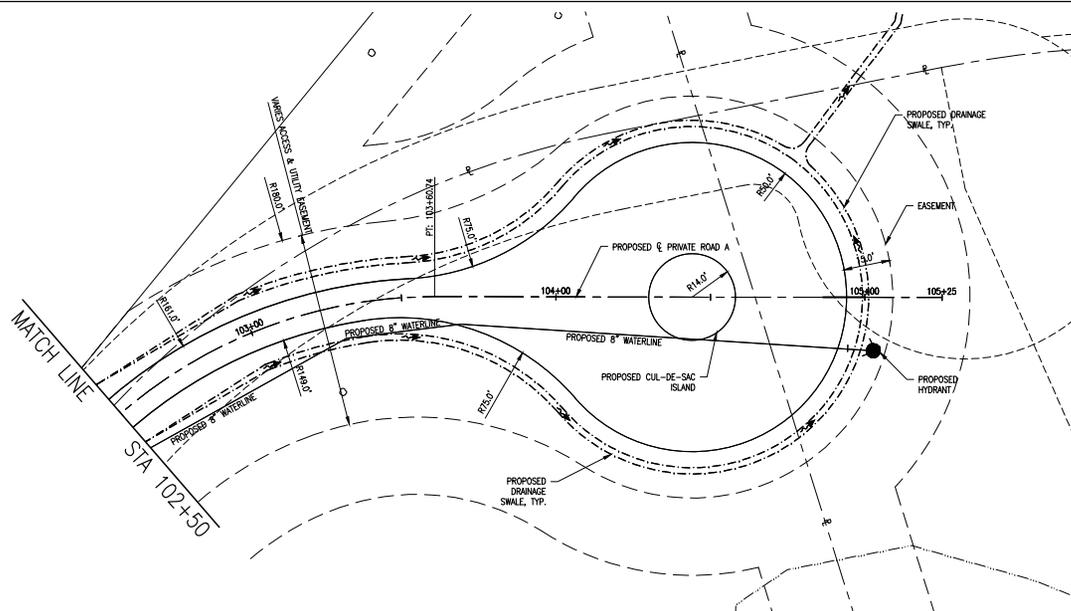
ALIGNMENT COORDINATES		
PC STATION	NORTHING	EASTING
STA. 98+18.04	781288.6794	1793934.0016
STA. 102+28.86	781345.5435	1793989.1528
PT STATION	NORTHING	EASTING
STA. 98+99.31	781464.2722	1793996.2899
STA. 103+60.74	781450.3684	1794123.4610



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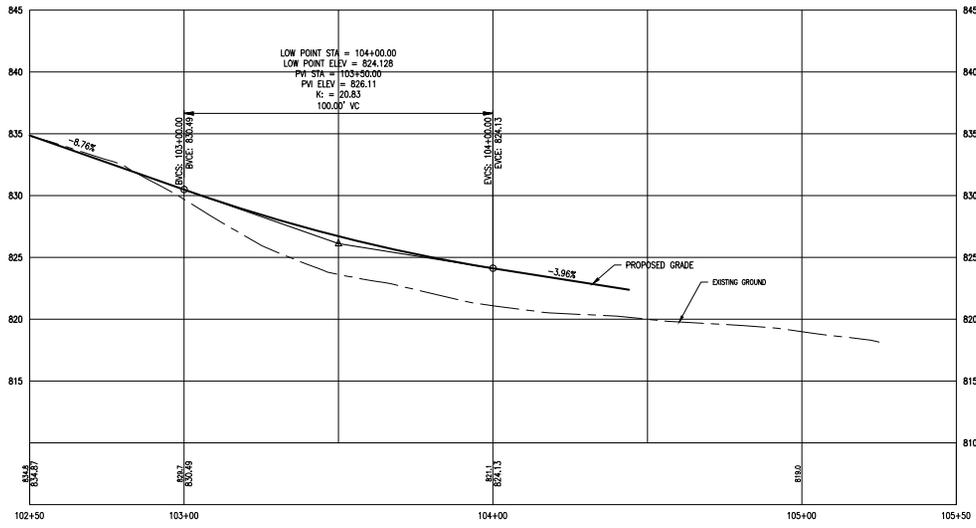
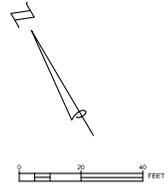
DEER RUN LAND, LLC
 DEER RUN SUBAREA A AND B
 PLAN AND PROFILE - SUBAREA A
 STA. 100+00 TO STA. 102+50
 SHEET 16 OF 28

DRAWING PATH: P:\611_2502681500\2502681500\Draw_Rvt\Chang\CP\Plan_CrossSubarea_1024128.dwg Date: 04/20/15 10:28am

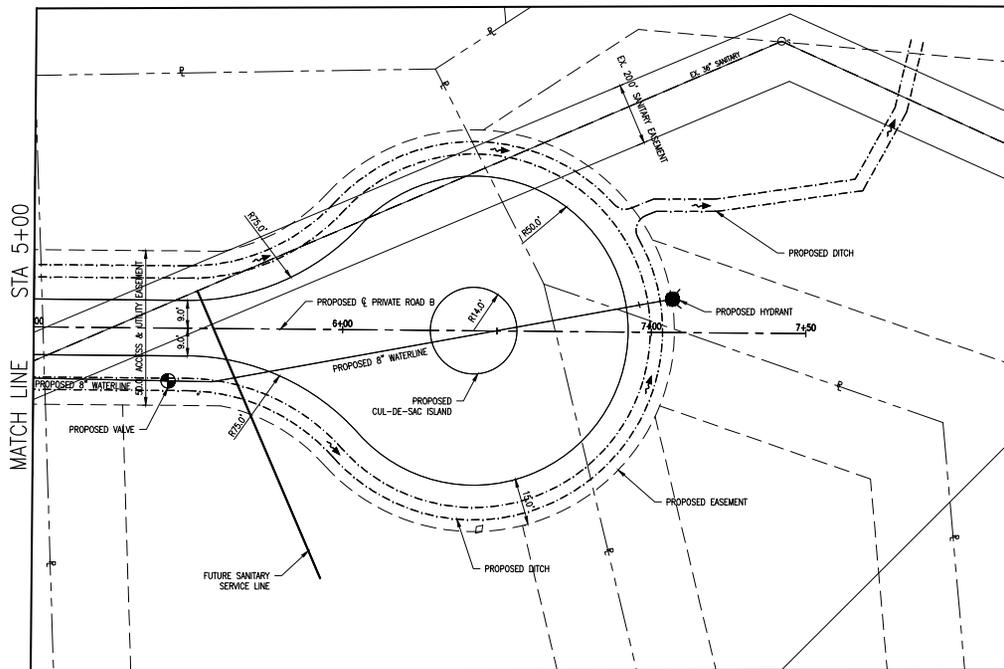


CURVE DATA
 P.I. STA. 102+99.09
 A = 48'44"51"
 R = 155.50'
 T = 70.22'
 L = 131.88'
 E = 15.17'
 C = 127.93'
 C.B. = S 83°45'38" E

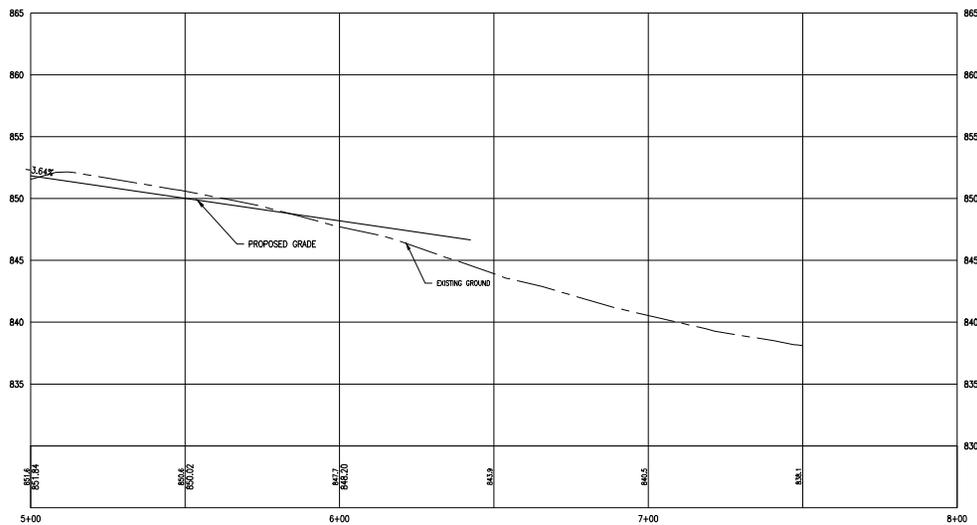
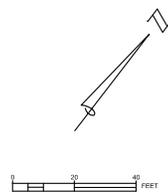
- NOTE:**
- 1) FOR WATER MAN DETAILS, SEE SHEETS 20 AND 21.
 - 2) ALL SANITARY MANHOLES ARE TO BE CONSTRUCTED PER SA-01, SA-02 AND SA-04 OF DUBLIN'S STANDARD CONSTRUCTION DRAWINGS AND TO FOLLOW CITY OF COLUMBUS STANDARD CONSTRUCTION DRAWING AA-5150. PAVEMENT BUILD-UP FOR TRENCH SHALL MATCH EXISTING PAVEMENT BUILD-UP.



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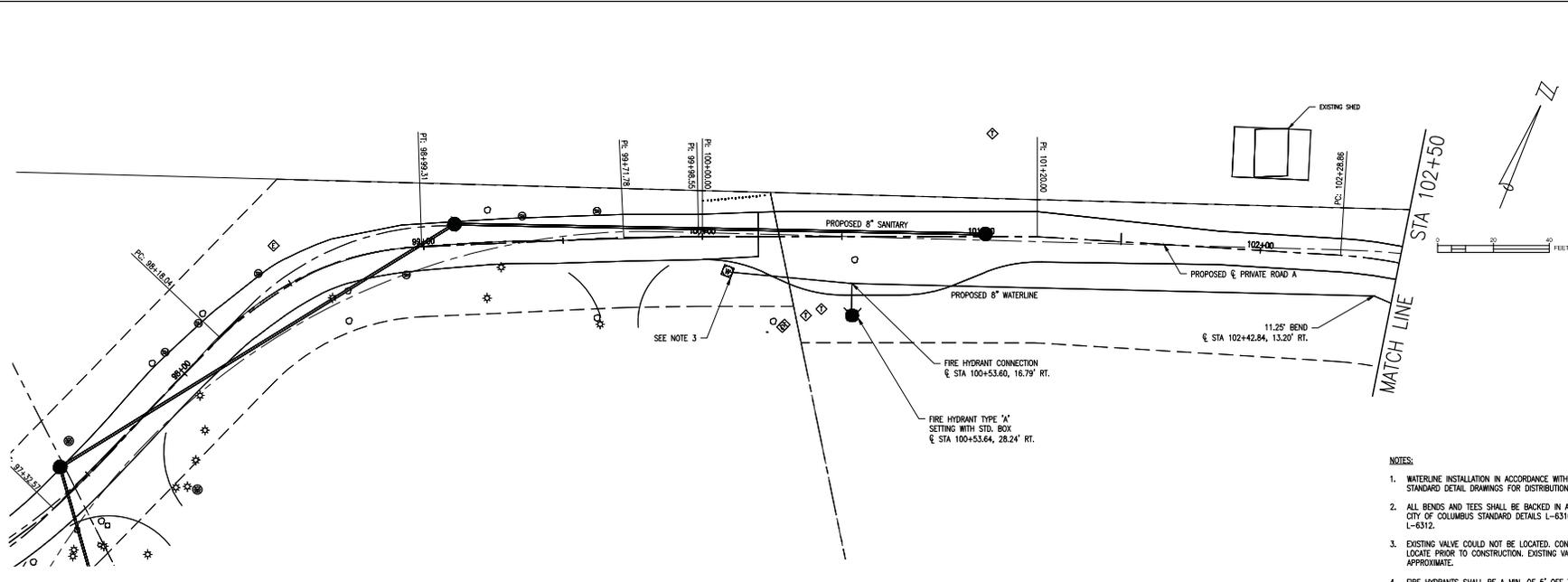
NOTE:
1) FOR WATER MAIN DETAILS, SEE SHEETS 22, 23, AND 24.



DEER RUN SUBAREA A AND B
PLAN AND PROFILE - SUBAREA B, PRELIMINARY AND FINAL

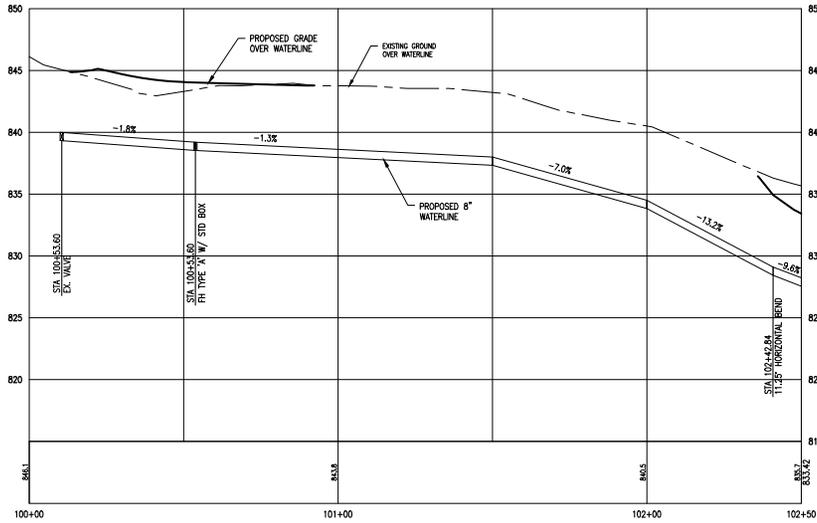
COMPILED BY: J. B. BROWN AND W. H. WATKINS (PENDING) CHECKED BY: THE ORIGINAL AND UNPUBLISHED WORK OF OHM AND THE USER MAY BE DELETED, DISTRIBUTED, REPRODUCED, OR OTHERWISE USED WITHOUT THE WRITTEN CONSENT OF OHM.

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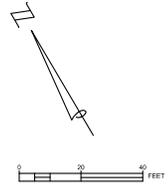
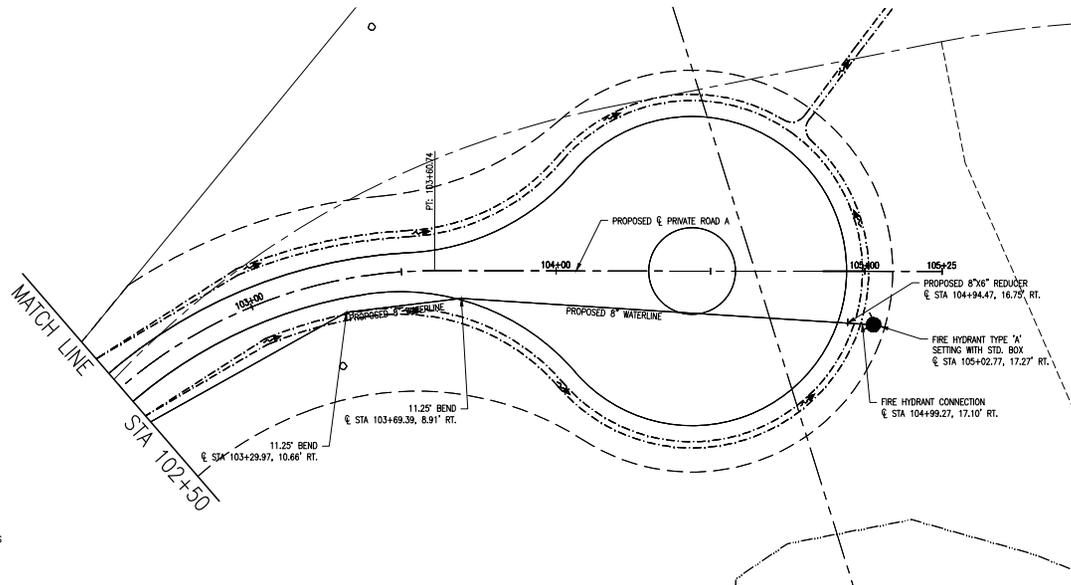


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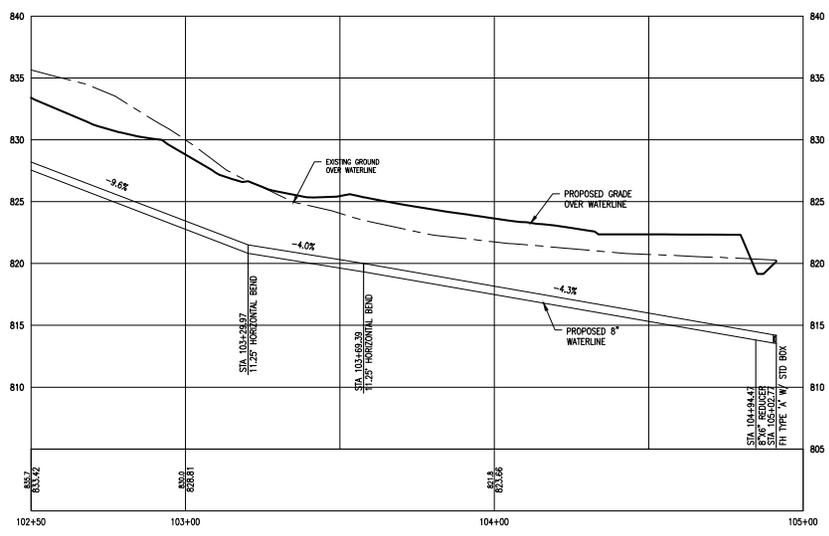
1. WATERLINE INSTALLATION IN ACCORDANCE WITH CITY OF COLUMBUS STANDARD DETAIL DRAWINGS FOR DISTRIBUTION SYSTEMS.
2. ALL BENDS AND TEES SHALL BE BACKED IN ACCORDANCE WITH CITY OF COLUMBUS STANDARD DETAILS L-6310, L-6311, AND L-6312.
3. EXISTING VALVE COULD NOT BE LOCATED, CONTRACTOR TO FIELD LOCATE PRIOR TO CONSTRUCTION. EXISTING VALVE LOCATION IS APPROXIMATE.
4. FIRE HYDRANTS SHALL BE A MIN. OF 5' OFF THE EDGE OF PAVEMENT.



DEER RUN LAND, LLC
DEER RUN SUBAREA A AND B
WATERLINE PLAN AND PROFILE - SUBAREA A



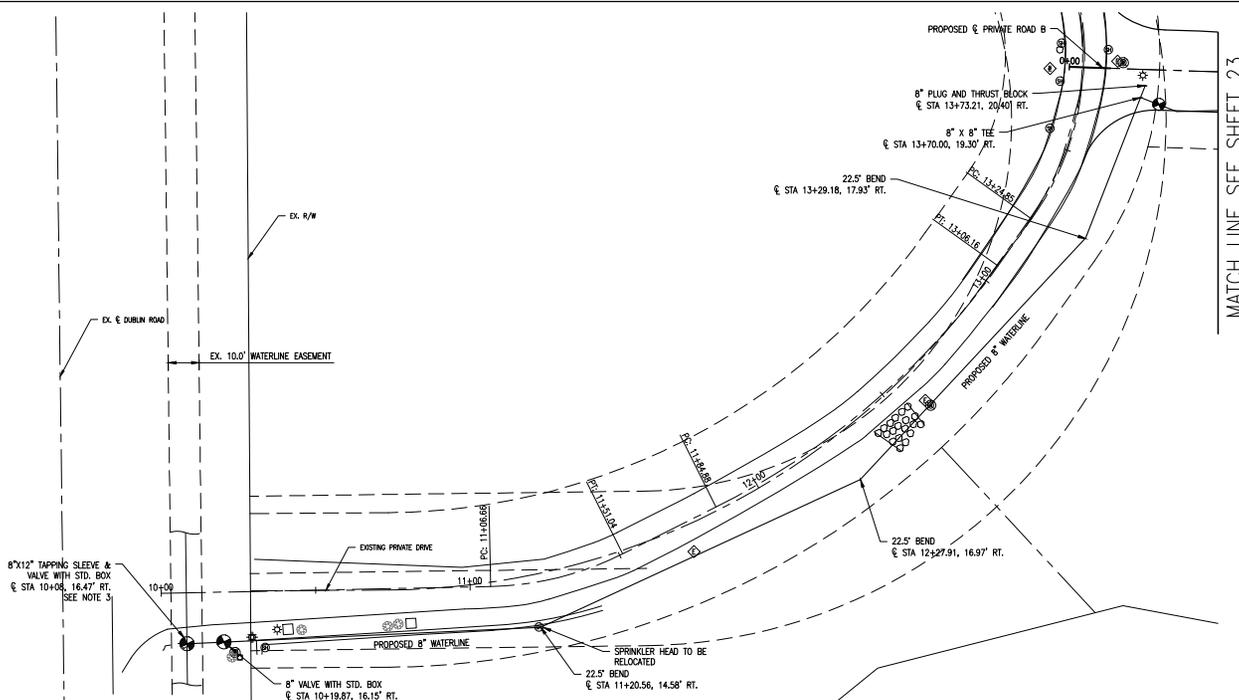
- NOTES:**
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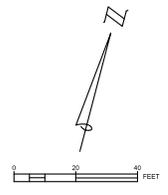
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DATE: 10/28/15
 SHEET: 28 OF 28
 DRAWN BY: J. J. JONES
 CHECKED BY: J. J. JONES
 PROJECT: DEER RUN SUBAREA A AND B
 WATERLINE PLAN AND PROFILE - SUBAREA A

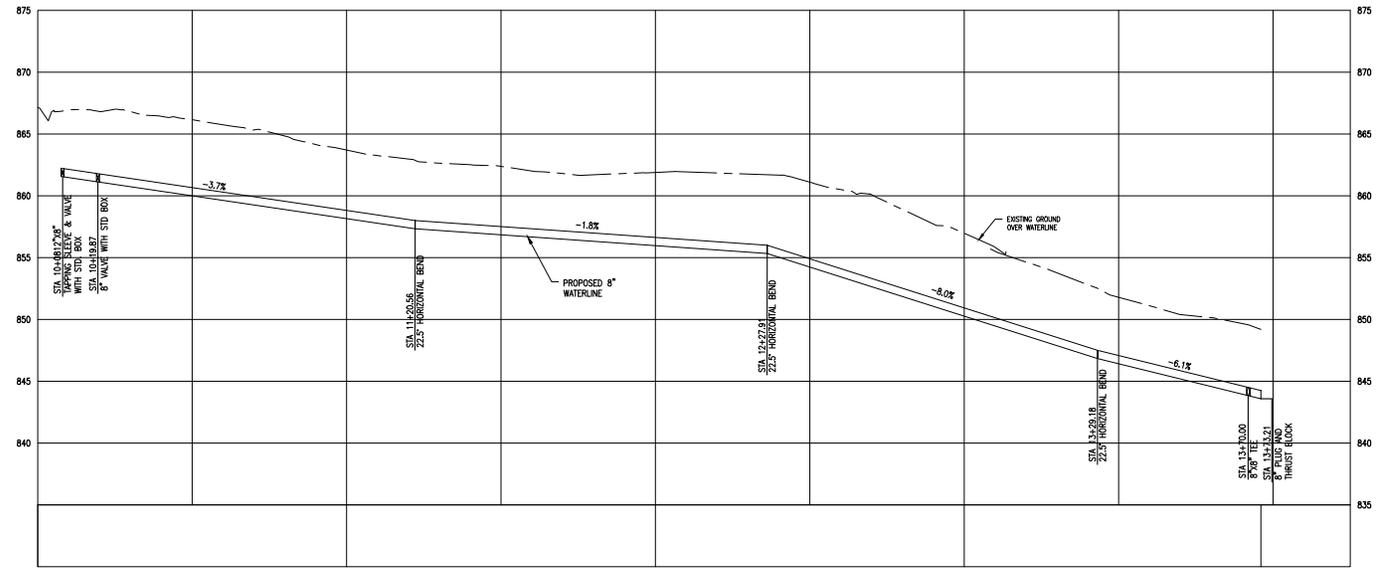
DEER RUN LAND, LLC
 DEER RUN SUBAREA A AND B
 WATERLINE PLAN AND PROFILE - SUBAREA A
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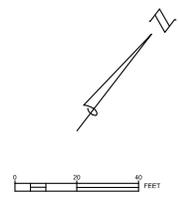
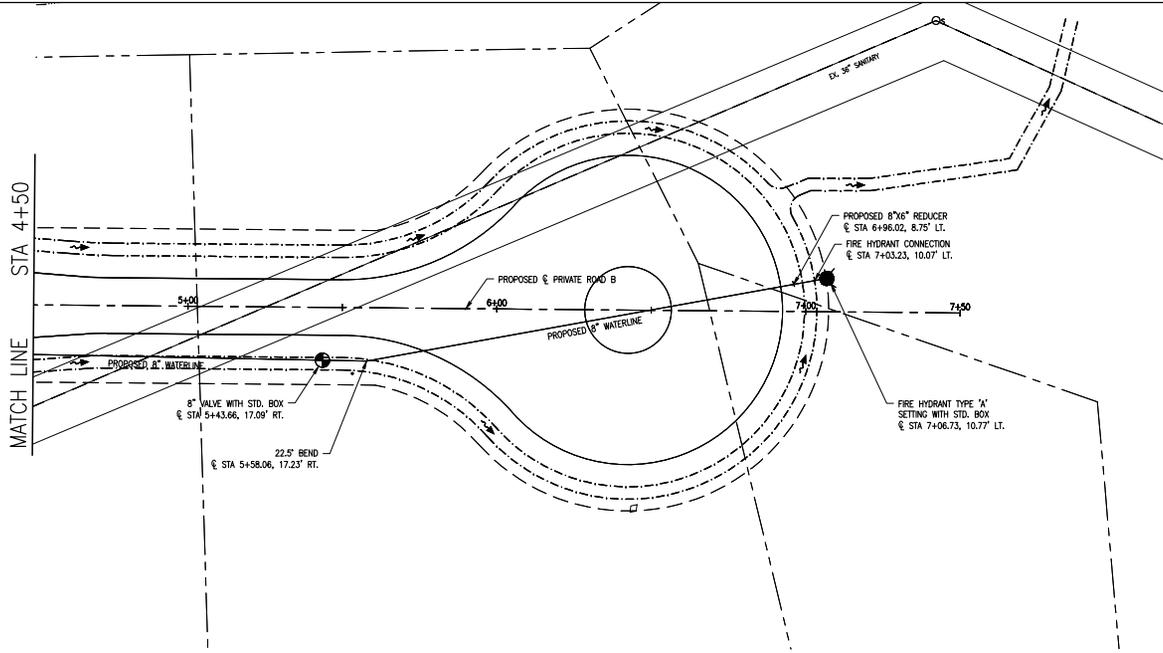


MATCH LINE SEE SHEET 23

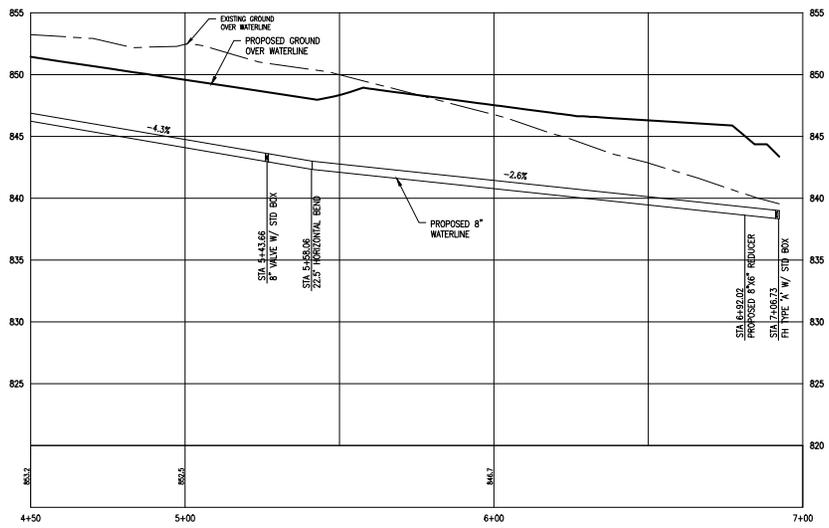


- NOTES.**
1. WATERLINE INSTALLATION IN ACCORDANCE WITH CITY OF COLUMBUS STANDARD DETAIL DRAWINGS FOR DISTRIBUTION SYSTEMS.
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 3. EXISTING WATERLINE TO BE FIELD VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION. EXISTING WATERLINE LOCATION IS APPROXIMATE.

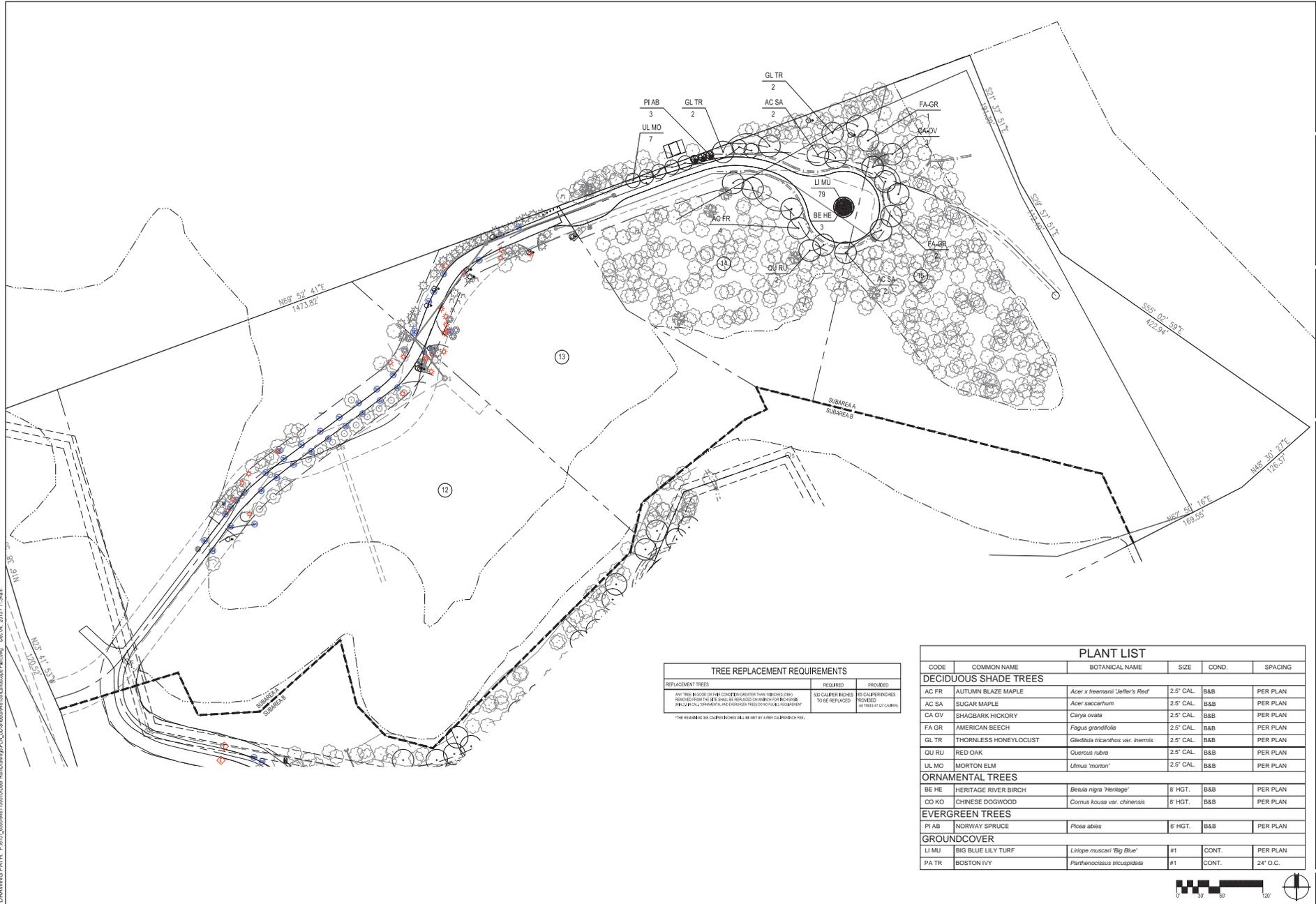




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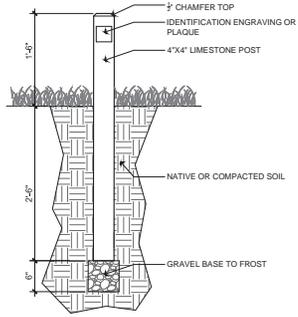
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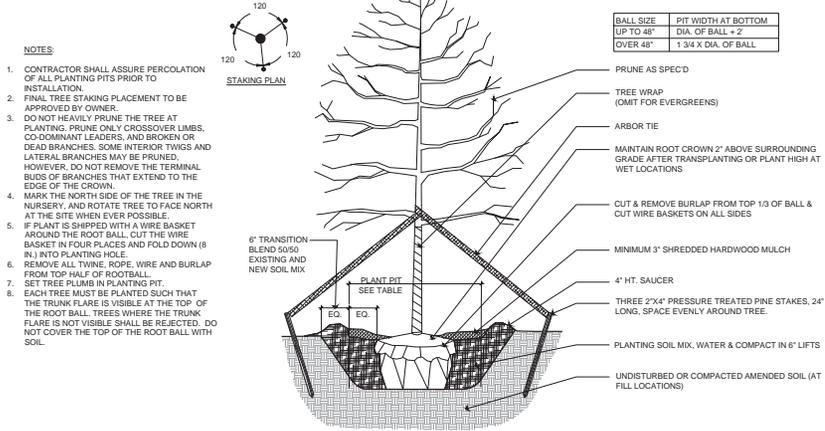
TREE REPLACEMENT REQUIREMENTS		
REPLACEMENT TREES	REQUIRED	PROVIDED
ANY TREE IN GOOD OR FAIR CONDITION GREATER THAN 18 INCHES DBH REMOVED FROM THE SITE SHALL BE REPLACED ON A 1:1 BASIS FOR EACH TREE. IN ALL CASES, 1/2" SPANNING AND EXPOSED TRENCHES DO NOT MEET REQUIREMENT.	30" CALIPER INCHES TO BE REPLACED	30" CALIPER INCHES PROVIDED
	THE REMAINING 30" CALIPER INCHES SHALL BE MET BY A NEW CALIPER INCH TREE.	30" CALIPER INCHES PROVIDED FOR TREES AT 1/2" CALIPER

PLANT LIST					
CODE	COMMON NAME	BOTANICAL NAME	SIZE	COND.	SPACING
DECIDUOUS SHADE TREES					
AC FR	AUTUMN BLAZE MAPLE	<i>Acer x freemanii 'Jeffers' Red'</i>	2.5' CAL.	B&B	PER PLAN
AC SA	SUGAR MAPLE	<i>Acer saccharum</i>	2.5' CAL.	B&B	PER PLAN
CA OV	SHAGBARK HICKORY	<i>Carya ovata</i>	2.5' CAL.	B&B	PER PLAN
FA GR	AMERICAN BEECH	<i>Fagus grandifolia</i>	2.5' CAL.	B&B	PER PLAN
GL TR	THORNLESS HONEYLOCUST	<i>Gleditsia triacanthos var. inermis</i>	2.5' CAL.	B&B	PER PLAN
QU RU	RED OAK	<i>Quercus rubra</i>	2.5' CAL.	B&B	PER PLAN
LI MO	MORTON ELM	<i>Ulmus 'morton'</i>	2.5' CAL.	B&B	PER PLAN
ORNAMENTAL TREES					
BE HE	HERITAGE RIVER BIRCH	<i>Betula nigra 'Heritage'</i>	8' HGT.	B&B	PER PLAN
OO KO	CHINESE DOGWOOD	<i>Cornus kousa var. chinensis</i>	8' HGT.	B&B	PER PLAN
EVERGREEN TREES					
PI AB	NORWAY SPRUCE	<i>Picea abies</i>	6' HGT.	B&B	PER PLAN
GROUND COVER					
LI MU	BIG BLUE LILY TURF	<i>Liriope muscari 'Big Blue'</i>	#1	CONT.	PER PLAN
PA TR	BOSTON IVY	<i>Parthenocissus viticoides</i>	#1	CONT.	24" O.C.

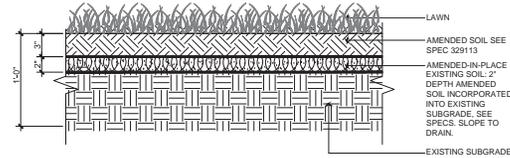




3 TREE PRESERVATION BOUNDARY MARKER
SCALE: 1" = 1'-0"



1 TREE PLANTING
SCALE: 1/2" = 1'-0"



2 FILL SYSTEM TYPE 1 - TURF GRASS
SCALE: 1 1/2" = 1'-0"

DATE: 12/04/14
PROJECT: 609648185
SHEET: 28 OF 28

DEER RUN LAND, LLC
DEER RUN
LANDSCAPE DETAILS

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