

SITE DEVELOPMENT PLANS FOR:

BROOK RUN DOG PARK
CONSTRUCTION DOCUMENTS

4770 N. PEACHTREE RD.
DUNWOODY, DEKALB COUNTY, GEORGIA 30338
L.L. 354, 18TH DISTRICT, ZONED: R-85

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PREPARED BY:

FORESITE
group

Foresite Group, Inc.
5185 Peachtree Pkwy.
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Norcross, GA 30092

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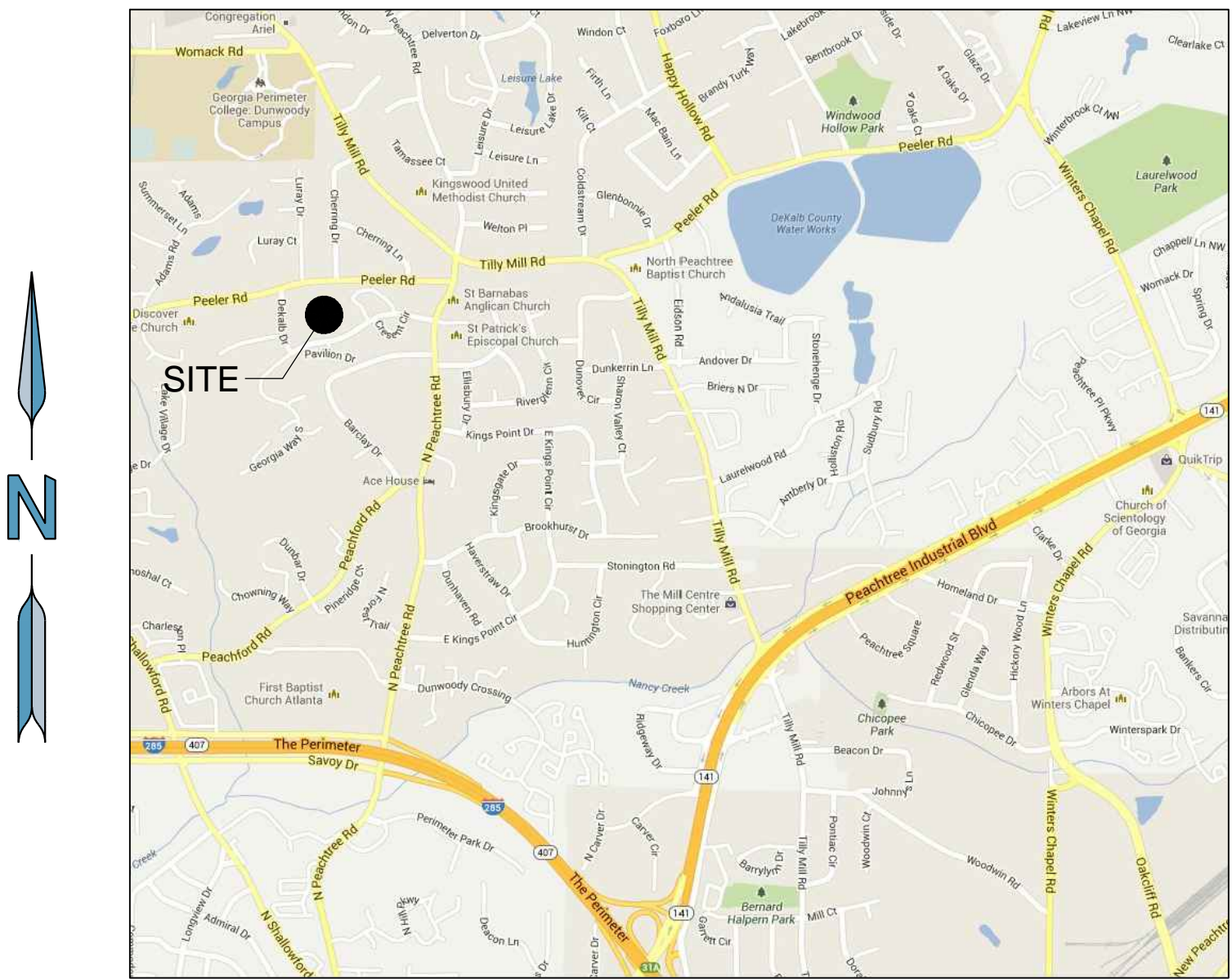
CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY UPON START OF CONSTRUCTION IN ORDER FOR ENGINEER TO SCHEDULE THE INITIAL 7 DAY EROSION CONTROL INSPECTION. THE CONTRACTOR SHALL VERIFY THAT ALL EXISTING INITIAL BMP'S ARE INSTALLED PROPERLY. ALL COMPENSATION FOR DESIGN ENGINEER'S REINSPECTION TO VERIFY THAT THE INITIAL BMP'S ARE PROPERLY INSTALLED WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.

24 HR CONTACT:
BRENT WALKER
(678) 382-6700

ISSUED:
AUGUST 10, 2013
487.001

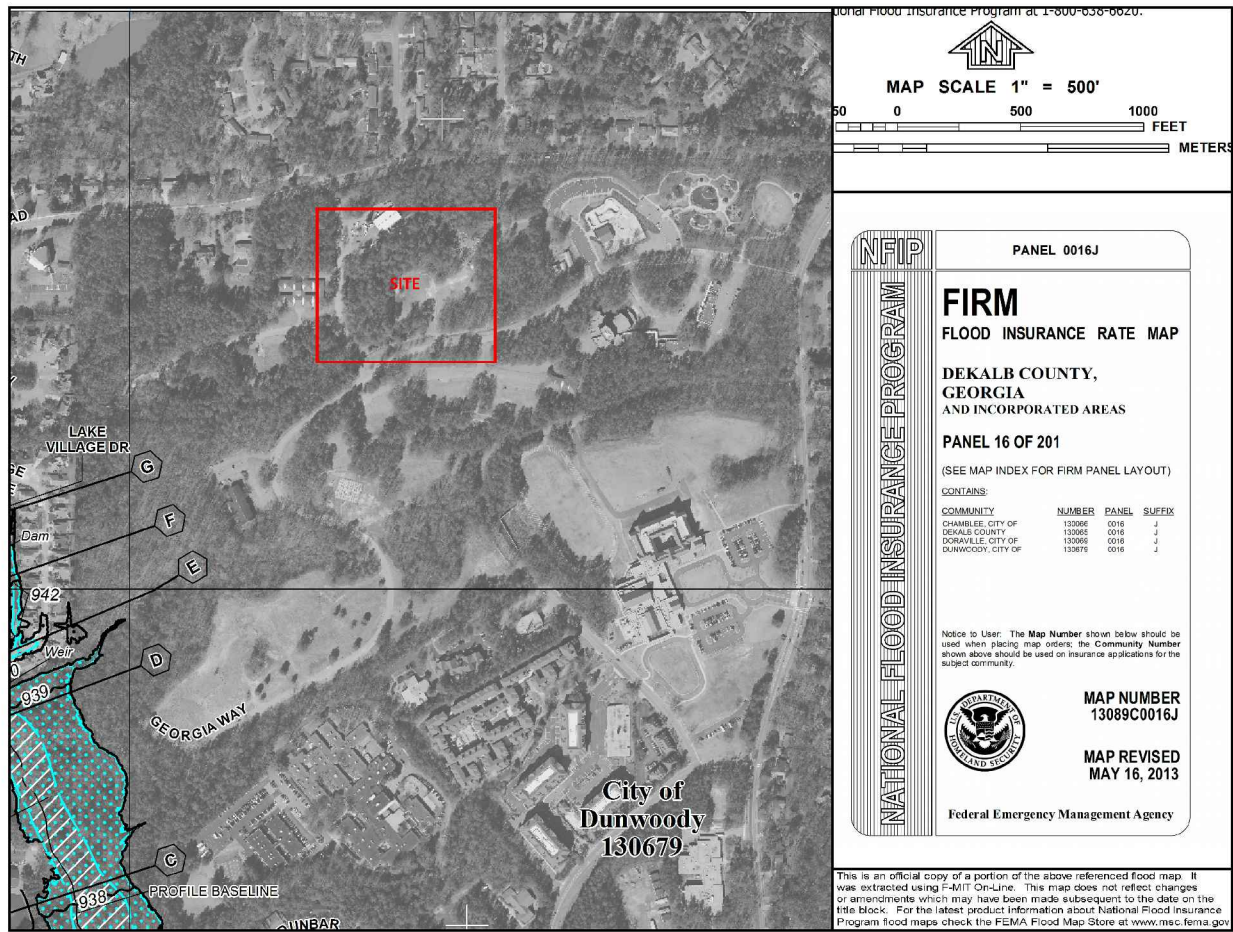
ANTICIPATED ACTIVITY SCHEDULE
BEGIN CONSTRUCTION - 1/1/2014
END CONSTRUCTION - 5/1/2014

ACTIVITY	1.0 MTH	2.0 MTH	3.0 MTH	4.0 MTH
1 INITIAL EROSION CONTROL BMP INSTALLATION				
2 INTERMEDIATE EROSION CONTROL BMP INSTALLATION				
3 FINAL PHASE EROSION CONTROL BMP INSTALLATION				
4 MAINTENANCE OF EROSION CONTROL BMP'S				
5 DEMOLITION				
6 CLEARING AND GRUBBING				
7 GRADING				
8 STORM & SANITARY SEWER INSTALLATION				
9 PAVING				
10 BUILDING CONSTRUCTION				
11 TEMPORARY GRASSING				
12 PERMANENT GRASSING				
13 TEMPORARY GRASSING @ 14 DAY INTERVALS				
14 PERMANENT GRASSING @ 30 DAY INTERVALS				
15 FINAL CLEAN UP				



VICINITY MAP
NOT TO SCALE

SITE DISTURBED AREA = 1.6 AC.



THIS SITE IS NOT LOCATED WITHIN A ZONE A, AE, OR SHADED ZONE X AS DEFINED BY FIRM COMMUNITY PANEL NUMBER 13121C FOR UNINCORPORATED DEKALB COUNTY, GEORGIA.

PROJECT DIRECTORY

OWNER/DEVELOPER
CITY OF DUNWOODY PARKS & RECREATION
41 PERIMETER CENTER EAST, SUITE 250
DUNWOODY, GA 30346
(678) 382-6700
CONTACT: MR. BRENT WALKER

LANDSCAPE ARCHITECT/CIVIL ENGINEER
FORESITE GROUP, INC.
5185 PEACHTREE PKWY., SUITE 240
NORCROSS, GA 30092
(770) 368-1399
CONTACT: JASON WECKERLY

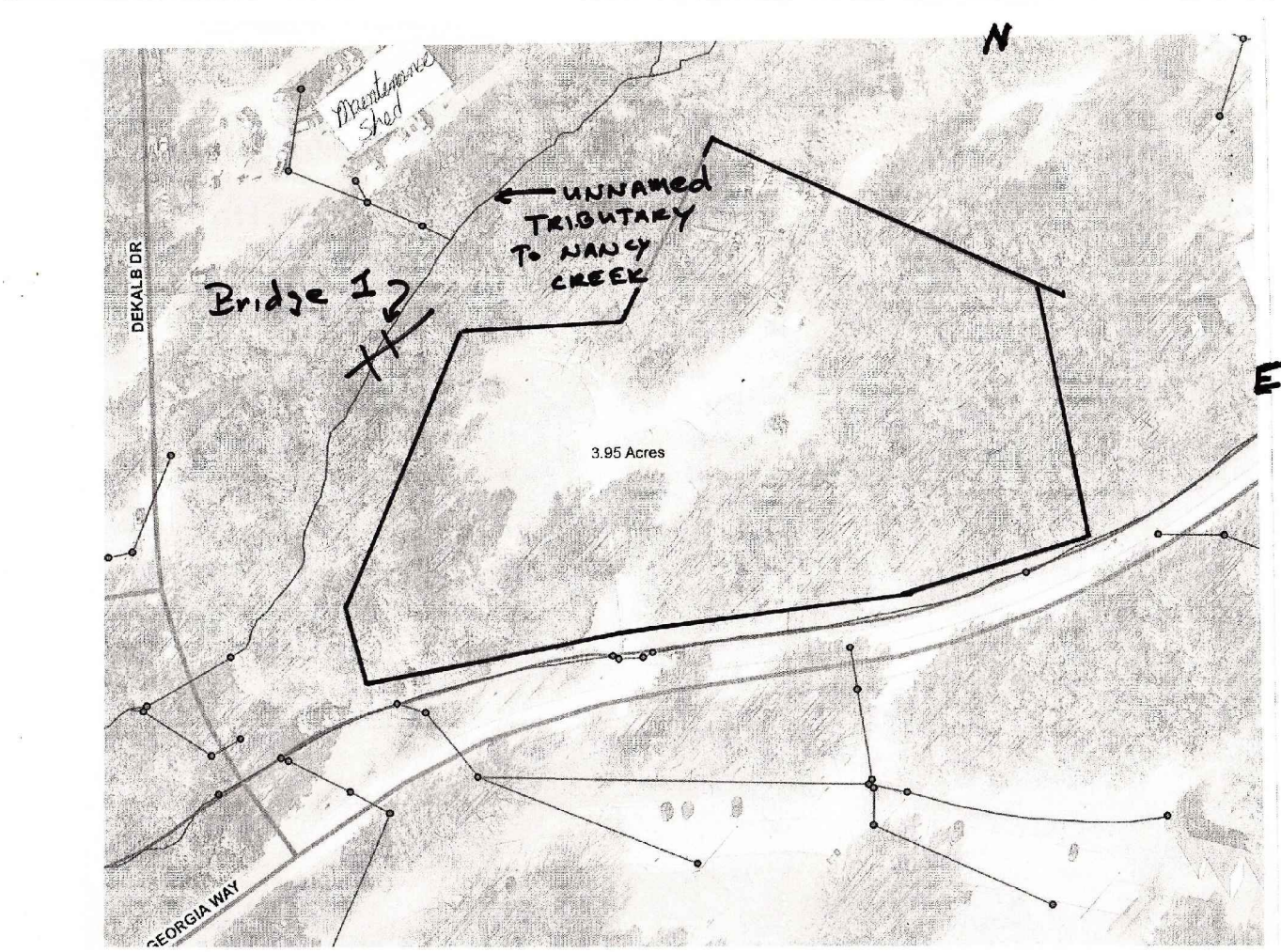
ARCHITECT
KACENA DESIGN, LLC
2944 RIDGELOCK CT.
ATLANTA, GA 30360
(404) 803-3869
CONTACT: MR. CHRIS KACENA

SURVEYOR
GEOSURVEY, LTD.
1660 BARNES MILL RD.
MARIETTA, GA 30062
(77) 795-9900
CONTACT: MR. DAVID HESTER

UTILITY PROVIDERS

WATER & SEWER SERVICE PROVIDER
DEKALB DEPT. OF WATERSHED
MANAGEMENT
1580 ROADHAVEN DRIVE
STONE MOUNTAIN, GA 30083
(770) 621-7200
CONTACT: MR. RUDOLPH A. CHEN

ELECTRICAL SERVICE PROVIDER
GEORGIA POWER
1841 CHAMBLEE TUCKER RD. SUITE 1-1A
CHAMBLEE, GA 30341
(770) 216-1313
CONTACT: MR. J.C. PORCH



PROPERTY LOCATION AND ADJACENT UNNAMED TRIBUTARY NORTH
OF THE SITE.

CERTIFICATION STATEMENT:

"I CERTIFY THAT THE PERMITTEE'S EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN PROVIDES FOR AN APPROPRIATE AND COMPREHENSIVE SYSTEM OF BEST MANAGEMENT PRACTICES REQUIRED BY THE GEORGIA WATER QUALITY CONTROL ACT AND THE DOCUMENT 'MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA' (MANUAL) PUBLISHED BY THE STATE SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND-DISTURBING ACTIVITY WAS PERMITTED, PROVIDES FOR THE SAMPLING OF THE RECEIVING WATER(S) OR THE SAMPLING OF THE STORM WATER OUTFALLS AND THAT THE DESIGNED SYSTEM OF THE BEST MANAGEMENT PRACTICES AND SAMPLING METHODS IS EXPECTED TO MEET THE REQUIREMENTS CONTAINED IN THE GENERAL NPDES PERMIT NO. GAR 100001. ADDITIONALLY, I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HEREIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY SUPERVISION."

SIGNATURE OF ENGINEER: *[Signature]* DATE: 11/4/13
1575 04/22/2014
CERTIFICATION # EXPIRATION

"I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT CERTIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS."

"I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE EROSION SEDIMENTATION AND POLLUTION CONTROL PLAN (PLAN) WAS PREPARED BY A DESIGN PROFESSIONAL, AS DEFINED BY THE PERMIT, THAT HAS COMPLETED THE APPROPRIATE CERTIFICATION COURSE APPROVED BY THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION IN ACCORDANCE WITH THE PROVISIONS OF O.C.G.A. 12-7-19 AND THAT I WILL ADHERE TO THE PLAN AND COMPLY WITH ALL REQUIREMENTS OF THIS PERMIT."

SIGNATURE OF OWNER: *[Signature]* DATE: 11/20/13

ENGINEER:

FORESITE
group

Foresite Group, Inc.
5185 Peachtree Pkwy.
Suite 240
Norcross, GA 30092

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DEVELOPER:

CONTACT:

PROJECT:

BROOK RUN DOG PARK
CONSTRUCTION DOCUMENTS
4770 N. PEACHTREE RD.
DUNWOODY, DEKALB COUNTY, GEORGIA 30338
L.L. 354, 18TH DISTRICT

SEAL:



REVISIONS DATE

ADDENDUM #1 11/20/2013

PROJECT MANAGER: JWM

DRAWING BY: NJP

JURISDICTION: DUNWOODY, GA

DATE: 10 AUGUST 2013

SCALE: AS SHOWN

TITLE:

COVER

SHEET NUMBER:

G-1

COMMENTS:

JOB/FILE NUMBER: 487.001

GENERAL NOTES

- A. DESIGN DATA PROVIDED IN ELECTRONIC FORMAT IS FOR INFORMATION PURPOSES ONLY AND SHOULD BE USED AT YOUR OWN RISK, AND IS PROVIDED WITHOUT REPRESENTATIONS AND WARRANTIES. ANY CONFLICT BETWEEN THE INFORMATION REFLECTED ON THE LATEST REVISION OF THE SEALED PLAN SHEETS AND THAT PROVIDED VIA ELECTRONIC FORMAT SHALL BE RESOLVED IN FAVOR OF THE SEALED PLAN SHEETS.
- B. UTILITIES: THERE MAY BE ADDITIONAL EXISTING UTILITIES NOT SHOWN ON THESE PLANS. EXISTING UTILITIES ARE SHOWN IN AN APPROXIMATE MANNER ONLY AND THE ENGINEER ASSUMES NO RESPONSIBILITY FOR LOCATIONS SHOWN. FIELD VERIFY THE LOCATION OF ALL EXISTING UTILITIES WITHIN THE LIMITS OF CONSTRUCTION. NOTIFY THE OWNER AND ENGINEER IF DISCREPANCIES ARE FOUND THAT WILL AFFECT THE CONSTRUCTION PROJECT. PROTECT ALL EXISTING UTILITIES.
- C. TEMPORARY PROVISIONS: SEQUENCE THE WORK AND PROVIDE TEMPORARY MEASURES AS NEEDED TO MAINTAIN ACCESS PER OWNER'S REQUIREMENTS (IF ANY), TO THE SITE THROUGH ALL ENTRANCES AT ALL TIMES DURING CONSTRUCTION. TEMPORARY PROVISIONS MAY INCLUDE, BUT ARE NOT LIMITED TO: BARRICADES, FLASHING LIGHTS, FLAGMAN, TEMPORARY PAVEMENT, AND DIRECTIONAL SIGNAGE.
- D. EQUIPMENT STORAGE: DO NOT PARK EQUIPMENT OR STORE MATERIALS IN STATE, COUNTY, OR CITY RIGHT-OF-WAY.
- E. NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BETWEEN THE EXISTING CONDITIONS IN THE FIELD AND THE SURVEY SHOWN ON THE PLANS BEFORE PROCEEDING WITH ANY NEW CONSTRUCTION.
- F. OBTAIN ALL REQUIRED CONSTRUCTION RELATED PERMITS, INCLUDING DEMOLITION PERMIT, BEFORE STARTING WORK. RETAIN COPIES OF ALL PERMITS AT THE PROJECT SITE AT ALL TIMES.
- G. APPROVAL OF THESE PLANS DOES NOT CONSTITUTE APPROVAL OF ANY LAND DISTURBING ACTIVITIES WITHIN WETLAND AREAS. CONTACT THE APPROPRIATE REGULATORY AGENCY FOR APPROVAL OF ANY WETLAND AREA DISTURBANCE.
- H. SIGNS (LOCATION, NUMBER, AND SIZE) ARE NOT APPROVED UNDER THE GENERAL DEVELOPMENT PERMIT. A SEPARATE PERMIT IS REQUIRED FOR ONSITE SIGNAGE.
- I. NO CERTIFICATE OF OCCUPANCY WILL BE ISSUED UNTIL ALL SITE IMPROVEMENTS HAVE BEEN COMPLETED ON THE SITE.
- J. COMPLY WITH ALL APPLICABLE STATE, FEDERAL, AND LOCAL BUILDING AND UTILITY INSTALLATION CODES. ALL MATERIALS AND CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS UNLESS DEPARTMENT OF TRANSPORTATION STANDARDS OR LOCAL MUNICIPAL STANDARDS ARE MORE STRINGENT.
- K. DO NOT DEVIATE FROM THESE PLANS AND SPECIFICATIONS WITHOUT PRIOR WRITTEN APPROVAL FROM THE ENGINEER OF RECORD.
- L. WORK WITHIN D.O.T. RIGHT-OF-WAY:
1. ALL PAVEMENT MARKINGS WITHIN D.O.T. RIGHT-OF-WAY SHALL BE THERMOPLASTIC AND IN ACCORDANCE WITH D.O.T. SPECIFICATIONS.
 2. RE-ESTABLISH ALL RIGHT-OF-WAY AREA, WHICH IS DAMAGED OR DISTURBED, TO ORIGINAL CONDITION OR BETTER.
- M. ARRANGE HIGH INTENSITY LIGHTING TO CONCEAL THE SOURCE OF LIGHT FROM PUBLIC VIEW AND PREVENT INTERFERENCE WITH TRAFFIC.
- N. ENSURE CORRECT HORIZONTAL AND VERTICAL ALIGNMENT OF ALL TIES BETWEEN PROPOSED AND EXISTING PAVEMENTS, CURB AND GUTTER, SIDEWALKS, WALLS, AND UTILITIES BEFORE BEGINNING WORK. NOTIFY ENGINEER IF DISCREPANCIES EXIST.

TRAFFIC CONTROL

- A. IF DRAWINGS DO NOT INDICATE SITE SPECIFIC TRAFFIC CONTROL MEASURES, CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A TEMPORARY TRAFFIC CONTROL PLAN IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION.
- B. ALL TEMPORARY TRAFFIC CONTROL, SIGNAGE AND MARKINGS SHALL BE INSTALLED PRIOR TO CONSTRUCTION AND MAINTAINED DURING CONSTRUCTION IN ACCORDANCE WITH THE MUTCD, LATEST EDITION.
- C. CONTACT PROPERTY OWNERS TO BE AFFECTED BY CONSTRUCTION AND COORDINATE TEMPORARY DRIVEWAY CLOSURES AND SEQUENCING. MAINTAIN ACCESS FOR ALL PROPERTY OWNERS DURING CONSTRUCTION.
- D. CONTROL DUST AS NECESSARY TO PREVENT INTERFERENCE WITH TRAFFIC.
- E. INSPECT TRAFFIC CONTROL DEVICES ON A DAILY BASIS TO ENSURE PLACEMENT OF BARRICADES AND FUNCTION OF LIGHTS IS MAINTAINED THROUGHOUT CONSTRUCTION.
- F. COORDINATE ALL LANE CLOSURES WITH THE LOCAL JURISDICTION HAVING AUTHORITY.

STRUCTURE & SITE DEMOLITION

- A. VERIFY THAT UTILITIES HAVE BEEN DISCONNECTED AND CAPPED BEFORE STARTING DEMOLITION OPERATIONS.
- B. VERIFY THAT HAZARDOUS MATERIALS HAVE BEEN REMEDIATED BEFORE PROCEEDING WITH BUILDING DEMOLITION OPERATIONS.
- C. ENVIRONMENTAL & GEOTECHNICAL: REVIEW ALL PROJECT ENVIRONMENTAL AND GEOTECHNICAL REPORTS AN BECOME FAMILIAR WITH ALL ISSUES BEFORE DEMOLITION.
- D. EXISTING UTILITIES: LOCATE, IDENTIFY, DISCONNECT, AND SEAL OR CAP OFF INDICATED UTILITIES SERVING BUILDINGS AND STRUCTURES TO BE DEMOLISHED.
1. ARRANGE TO SHUT OFF INDICATED UTILITIES WITH UTILITY COMPANIES.
 2. DO NOT COMMENCE DEMOLITION OPERATIONS UNTIL TEMPORARY EROSION AND SEDIMENT CONTROL AND PLANT-PROTECTION MEASURES ARE IN PLACE.
 3. OBTAIN THE DEMOLITION PERMIT FROM THE LOCAL AUTHORITY PRIOR TO STARTING DEMOLITION ACTIVITIES.
4. EXISTING FACILITIES: PROTECT ADJACENT WALKWAYS AND OTHER FACILITIES DURING DEMOLITION OPERATIONS. MAINTAIN EXITS FROM EXISTING BUILDINGS. PROMPTLY REPAIR ANY FACILITIES DAMAGED BY CONSTRUCTION OPERATIONS TO OWNER'S SATISFACTION AT NO ADDITIONAL COST TO THE OWNER.
5. EXISTING UTILITIES: MAINTAIN UTILITY SERVICES TO REMAIN AND PROTECT FROM DAMAGE DURING DEMOLITION OPERATIONS.
6. TEMPORARY PROTECTION: ERECT TEMPORARY PROTECTION, SUCH AS WALKS, FENCES, RAILINGS, CANOPIES, AND COVERED PASSAGEWAYS, WHERE REQUIRED BY AUTHORITIES HAVING JURISDICTION AND AS INDICATED.
7. REMOVE TEMPORARY BARRIERS AND PROTECTIONS WHERE HAZARDS NO LONGER EXIST. WHERE OPEN EXCAVATIONS OR OTHER HAZARDOUS CONDITIONS REMAIN, LEAVE TEMPORARY BARRIERS AND PROTECTIONS IN PLACE.
8. REMOVE DEMOLITION WASTE MATERIALS FROM PROJECT SITE AND LEGALLY DISPOSE OF THEM IN AN EPA-APPROVED LANDFILL ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.
9. DO NOT BURN DEMOLISHED MATERIALS UNLESS SPECIAL WRITTEN PERMISSION IS OBTAINED FROM OWNER AND ENGINEER.
10. CLEAN ADJACENT STRUCTURES AND IMPROVEMENTS OF DUST, DIRT, AND DEBRIS CAUSED BY BUILDING DEMOLITION OPERATIONS. RETURN ADJACENT AREAS TO CONDITION EXISTING BEFORE BUILDING DEMOLITION OPERATIONS BEGAN

SITE CLEARING

- 1.) PROJECT CONDITIONS
 - 2.) TEMPORARY EROSION AND SEDIMENTATION CONTROL
 - 3.) TREE AND PLANT PROTECTION
 - 4.) EXISTING UTILITIES
 - 5.) CLEARING AND GRUBBING
- A. TRAFFIC: MINIMIZE INTERFERENCE WITH ADJOINING ROADS, STREETS, WALKS, AND OTHER ADJACENT UTILITIES. CONSIDER THE LATEST REVISION OF THE SEALED PLAN SHEETS.
- B. ENVIRONMENTAL & GEOTECHNICAL: REVIEW ALL PROJECT ENVIRONMENTAL AND GEOTECHNICAL REPORTS AND BECOME FAMILIAR WITH ALL ISSUES BEFORE SITE CLEARING.
- C. UTILITY LOCATOR SERVICE: NOTIFY UTILITY LOCATOR SERVICE FOR AREA WHERE PROJECT IS LOCATED BEFORE SITE CLEARING.
- D. DO NOT COMMENCE SITE CLEARING OPERATIONS UNTIL TEMPORARY EROSION- AND SEDIMENTATION-CONTROL AND PLANT-PROTECTION MEASURES ARE IN PLACE.
- E. PROVIDE SUBMITTALS TO ENGINEER FOR ALL MATERIALS PROPOSED FOR INSTALLATION. ALLOW 2 WEEKS FOR REVIEW AND APPROVAL.
- 2.) COPPER TUBE AND FITTINGS
- A. SOFT COPPER TUBE-ASTM B 88, TYPE K, WATER TUBE, ANNEALED TEMPER.
- B. COPPER, PRESSURE-SEAL FITTINGS:
1. NPS 2 AND SMALLER: WROUGHT-COPPER FITTING WITH EPDM O-RING SEAL IN EACH END.
 2. NPS 2-1/2 TO NPS 4: BRONZE FITTING WITH STAINLESS-STEEL GRIP RING AND EPDM O-RING SEAL IN EACH END.
- C. BRONZE FLANGES: ASME B16.24, CLASS 150, WITH SOLDER-JOINT END. FURNISH CLASS 300 FLANGES IF REQUIRED TO MATCH PIPIG.
- D. COPPER UNIONS: MSS SP-123, CAST-COPPER-ALLOY, HEXAGONAL STOCK BODY WITH UNDERGROOVE, METAL-TO-METAL SEATING SURFACES, AND SOLDER-JOINT OR THREADED ENDS.
- 3.) DUCTILE-IRON PIPE AND FITTINGS
- A. MECHANICAL JOINT, DUCTILE-IRON PIPE: AWWA C151, WITH MECHANICAL-JOINT BELL AND PLAIN SPIGOT END UNLESS GROOVED OR FLANGED ENDS ARE INDICATED.
1. MECHANICAL-JOINT, DUCTILE-IRON FITTINGS: AWWA C110, DUCTILE- OR GRAY-IRON STANDARD PATTERN OR AWWA C153, DUCTILE-IRON COMPACT PATTERN.
2. GASKETS: AWWA C111, RUBBER.
3. VALVE: AWWA, CAST-IRON, NONRISING-STEM, RESILIENT-SEATED GATE VALVE WITH ONE RAISED FACE FLANGE MATING TAPPING-SLEEVE FLANGE.
4. VALVE BOXES: COMPLY WITH AWWA M44 FOR CAST-IRON VALVE BOXES. INCLUDE TOP SECTION, ADJUSTABLE EXTENSION OF LENGTH REQUIRED FOR DEPTH OF BURIAL OF VALVE, PLUG WITH LETTERING "WATER", AND BOTTOM SECTION WITH BASE THAT FITS OVER VALVE AND WITH A BARREL APPROXIMATELY 5 INCHES IN DIAMETER.
- 7.) FIELD QUALITY CONTROL
- A. PIPING TESTS: CONDUCT PIPING TESTS BEFORE JOINTS ARE COVERED AND AFTER CONCRETE THRUST BLOCKS HAVE HARDENED SUFFICIENTLY. FILL PIPELINE 24 HOURS BEFORE TESTING AND APPLY TEST PRESSURE TO STABILIZE SYSTEM. USE ONLY POTABLE WATER.
- B. HYDROSTATIC TESTS: TEST AT NOT LESS THAN ONE-AND-ONE-HALF TIMES WORKING PRESSURE FOR TWO HOURS. INCREASE PRESSURE IN 50-PSIG INCREMENTS AND INSPECT EACH JOINT BETWEEN INCREMENTS. HOLD AT TEST PRESSURE FOR 1 HOUR; DECREASE TO 0 PSIG. SLOWLY INCREASE AGAIN TO TEST PRESSURE AND HOLD FOR 1 MORE HOUR. MAXIMUM ALLOWABLE LEAKAGE IS 2 QUARTS PER HOUR PER 100 JOINTS. REMAKE LEAKING JOINTS WITH NEW MATERIALS AND REPEAT TEST UNTIL LEAKAGE IS WITHIN ALLOWED LIMITS.
- C. DISINFECTION: CLEAN AND DISINFECT POTABLE WATER MAINS AS DIRECTED BY THE LOCAL AUTHORITY, OR, IF METHOD IS NOT PRESCRIBED BY THE LOCAL AUTHORITY, USE PROCEDURE DESCRIBED IN AWWA C651.
- D. PREPARE REPORTS OF TESTING ACTIVITIES AND SUBMIT TO THE ENGINEER FOR APPROVAL.
- 4.) IDENTIFICATION
- A. INSTALL CONTINUOUS UNDERGROUND DETECTABLE WARNING TAPE DURING BACKFILLING OF TRENCH FOR UNDERGROUND WATER-DISTRIBUTION PIPING. LOCATE BELOW FINISHED GRADE, DIRECTLY OVER PIPING.

SITE WATER DISTRIBUTION

- 1.) GENERAL
 - 2.) REGULATORY REQUIREMENTS
 - 3.) PIPE MATERIALS
 - 4.) PIPE SIZES
 - 5.) PIPE JOINTS
 - 6.) GASKETS
 - 7.) VALVE
 - 8.) VALVE BOXES
 - 9.) IDENTIFICATION
 - 10.) CLEANOUTS
 - 11.) MANHOLES
 - 12.) STANDARD PRECAST CONCRETE MANHOLES
- A. REGULARITY REQUIREMENTS:
1. COMPLY WITH REQUIREMENTS OF UTILITY COMPANY SUPPLYING WATER. INCLUDE TAPPING OF WATER MAINS AND BACKFLOW PREVENTION.
 2. COMPLY WITH STANDARDS OF AUTHORITIES HAVING JURISDICTION FOR POTABLE-WATER-SERVICE PIPING, INCLUDING MATERIALS, INSTALLATION, TESTING, AND DISINFECTION.
- B. PIPING MATERIALS SHALL BEAR LABEL, STAMP, OR OTHER MARKINGS OF SPECIFIED TESTING AGENCY.
- C. INTERRUPTION OF EXISTING WATER-DISTRIBUTION SERVICE: NOTIFY OWNER AT LEAST 2 DAYS PRIOR TO INTERRUPTION OF EXISTING WATER SERVICES.
- D. COORDINATE WITH UTILITY COMPANY FOR REQUIRED INSPECTIONS AND FOR CONNECTION OF WATER MAIN AND SERVICES BEFORE STARTING CONSTRUCTION.
- E. PROVIDE SUBMITTALS TO ENGINEER FOR ALL MATERIALS PROPOSED FOR INSTALLATION. ALLOW 2 WEEKS FOR REVIEW AND APPROVAL.
- 2.) COPPER TUBE AND FITTINGS
- A. SOFT COPPER TUBE-ASTM B 88, TYPE K, WATER TUBE, ANNEALED TEMPER.
- B. COPPER, PRESSURE-SEAL FITTINGS:
1. NPS 2 AND SMALLER: WROUGHT-COPPER FITTING WITH EPDM O-RING SEAL IN EACH END.
 2. NPS 2-1/2 TO NPS 4: BRONZE FITTING WITH STAINLESS-STEEL GRIP RING AND EPDM O-RING SEAL IN EACH END.
- C. BRONZE FLANGES: ASME B16.24, CLASS 150, WITH SOLDER-JOINT END. FURNISH CLASS 300 FLANGES IF REQUIRED TO MATCH PIPIG.
- D. COPPER UNIONS: MSS SP-123, CAST-COPPER-ALLOY, HEXAGONAL STOCK BODY WITH UNDERGROOVE, METAL-TO-METAL SEATING SURFACES, AND SOLDER-JOINT OR THREADED ENDS.
- 3.) DUCTILE-IRON PIPE AND FITTINGS
- A. MECHANICAL JOINT, DUCTILE-IRON PIPE: AWWA C151, WITH MECHANICAL-JOINT BELL AND PLAIN SPIGOT END UNLESS GROOVED OR FLANGED ENDS ARE INDICATED.
1. MECHANICAL-JOINT, DUCTILE-IRON FITTINGS: AWWA C110, DUCTILE- OR GRAY-IRON STANDARD PATTERN OR AWWA C153, DUCTILE-IRON COMPACT PATTERN.
2. GASKETS: AWWA C111, RUBBER.
3. VALVE: AWWA, CAST-IRON, NONRISING-STEM, RESILIENT-SEATED GATE VALVES: GRAY- OR DUCTILE-IRON BODY AND BONNET, WITH BRONZE OR GRAY- OR DUCTILE-IRON GATE, RESILIENT SEATS, BRONZE STEM, AND STEM NUT.
4. VALVE BOXES: COMPLY WITH AWWA M44 FOR CAST-IRON VALVE BOXES. INCLUDE TOP SECTION, ADJUSTABLE EXTENSION OF LENGTH REQUIRED FOR DEPTH OF BURIAL OF VALVE, PLUG WITH LETTERING "WATER", AND BOTTOM SECTION WITH BASE THAT FITS OVER VALVE AND WITH A BARREL APPROXIMATELY 5 INCHES IN DIAMETER.
- 7.) FIELD QUALITY CONTROL
- A. PIPING TESTS: CONDUCT PIPING TESTS BEFORE JOINTS ARE COVERED AND AFTER CONCRETE THRUST BLOCKS HAVE HARDENED SUFFICIENTLY. FILL PIPELINE 24 HOURS BEFORE TESTING AND APPLY TEST PRESSURE TO STABILIZE SYSTEM. USE ONLY POTABLE WATER.
- B. HYDROSTATIC TESTS: TEST AT NOT LESS THAN ONE-AND-ONE-HALF TIMES WORKING PRESSURE FOR TWO HOURS. INCREASE PRESSURE IN 50-PSIG INCREMENTS AND INSPECT EACH JOINT BETWEEN INCREMENTS. HOLD AT TEST PRESSURE FOR 1 HOUR; DECREASE TO 0 PSIG. SLOWLY INCREASE AGAIN TO TEST PRESSURE AND HOLD FOR 1 MORE HOUR. MAXIMUM ALLOWABLE LEAKAGE IS 2 QUARTS PER HOUR PER 100 JOINTS. REMAKE LEAKING JOINTS WITH NEW MATERIALS AND REPEAT TEST UNTIL LEAKAGE IS WITHIN ALLOWED LIMITS.
- C. DISINFECTION: CLEAN AND DISINFECT POTABLE WATER MAINS AS DIRECTED BY THE LOCAL AUTHORITY, OR, IF METHOD IS NOT PRESCRIBED BY THE LOCAL AUTHORITY, USE PROCEDURE DESCRIBED IN AWWA C651.
- D. PREPARE REPORTS OF TESTING ACTIVITIES AND SUBMIT TO THE ENGINEER FOR APPROVAL.
- 4.) IDENTIFICATION
- A. INSTALL CONTINUOUS UNDERGROUND DETECTABLE WARNING TAPE DURING BACKFILLING OF TRENCH FOR UNDERGROUND WATER-DISTRIBUTION PIPING. LOCATE BELOW FINISHED GRADE, DIRECTLY OVER PIPING.

SITE SANITARY SEWERS

- 1.) PROJECT CONDITIONS
 - 2.) REGULATORY REQUIREMENTS
 - 3.) PIPE MATERIALS
 - 4.) PIPE SIZES
 - 5.) PIPE JOINTS
 - 6.) GASKETS
 - 7.) VALVE
 - 8.) VALVE BOXES
 - 9.) IDENTIFICATION
 - 10.) CLEANOUTS
 - 11.) MANHOLES
 - 12.) STANDARD PRECAST CONCRETE MANHOLES
- A. REGULARITY REQUIREMENTS:
1. COMPLY WITH REQUIREMENTS OF UTILITY COMPANY SUPPLYING WATER. INCLUDE TAPPING OF WATER MAINS AND BACKFLOW PREVENTION.
 2. COMPLY WITH STANDARDS OF AUTHORITIES HAVING JURISDICTION FOR POTABLE-WATER-SERVICE PIPING, INCLUDING MATERIALS, INSTALLATION, TESTING, AND DISINFECTION.
- B. PIPING MATERIALS SHALL BEAR LABEL, STAMP, OR OTHER MARKINGS OF SPECIFIED TESTING AGENCY.
- C. INTERRUPTION OF EXISTING WATER-DISTRIBUTION SERVICE: NOTIFY OWNER AT LEAST 2 DAYS PRIOR TO INTERRUPTION OF EXISTING WATER SERVICES.
- D. COORDINATE WITH UTILITY COMPANY FOR REQUIRED INSPECTIONS AND FOR CONNECTION OF WATER MAIN AND SERVICES BEFORE STARTING CONSTRUCTION.
- E. PROVIDE SUBMITTALS TO ENGINEER FOR ALL MATERIALS PROPOSED FOR INSTALLATION. ALLOW 2 WEEKS FOR REVIEW AND APPROVAL.
- 2.) COPPER TUBE AND FITTINGS
- A. SOFT COPPER TUBE-ASTM B 88, TYPE K, WATER TUBE, ANNEALED TEMPER.
- B. COPPER, PRESSURE-SEAL FITTINGS:
1. NPS 2 AND SMALLER: WROUGHT-COPPER FITTING WITH EPDM O-RING SEAL IN EACH END.
 2. NPS 2-1/2 TO NPS 4: BRONZE FITTING WITH STAINLESS-STEEL GRIP RING AND EPDM O-RING SEAL IN EACH END.
- C. BRONZE FLANGES: ASME B16.24, CLASS 150, WITH SOLDER-JOINT END. FURNISH CLASS 300 FLANGES IF REQUIRED TO MATCH PIPIG.
- D. COPPER UNIONS: MSS SP-123, CAST-COPPER-ALLOY, HEXAGONAL STOCK BODY WITH UNDERGROOVE, METAL-TO-METAL SEATING SURFACES, AND SOLDER-JOINT OR THREADED ENDS.
- 3.) DUCTILE-IRON PIPE AND FITTINGS
- A. MECHANICAL JOINT, DUCTILE-IRON PIPE: AWWA C151, WITH MECHANICAL-JOINT BELL AND PLAIN SPIGOT END UNLESS GROOVED OR FLANGED ENDS ARE INDICATED.
1. MECHANICAL-JOINT, DUCTILE-IRON FITTINGS: AWWA C110, DUCTILE- OR GRAY-IRON STANDARD PATTERN OR AWWA C153, DUCTILE-IRON COMPACT PATTERN.
2. GASKETS: AWWA C111, RUBBER.
3. VALVE: AWWA, CAST-IRON, NONRISING-STEM, RESILIENT-SEATED GATE VALVE WITH ONE RAISED FACE FLANGE MATING TAPPING-SLEEVE FLANGE.
4. VALVE BOXES: COMPLY WITH AWWA M44 FOR CAST-IRON VALVE BOXES. INCLUDE TOP SECTION, ADJUSTABLE EXTENSION OF LENGTH REQUIRED FOR DEPTH OF BURIAL OF VALVE, PLUG WITH LETTERING "WATER", AND BOTTOM SECTION WITH BASE THAT FITS OVER VALVE AND WITH A BARREL APPROXIMATELY 5 INCHES IN DIAMETER.
- 7.) FIELD QUALITY CONTROL
- A. PIPING TESTS: CONDUCT PIPING TESTS BEFORE JOINTS ARE COVERED AND AFTER CONCRETE THRUST BLOCKS HAVE HARDENED SUFFICIENTLY. FILL PIPELINE 24 HOURS BEFORE TESTING AND APPLY TEST PRESSURE TO STABILIZE SYSTEM. USE ONLY POTABLE WATER.
- B. HYDROSTATIC TESTS: TEST AT NOT LESS THAN ONE-AND-ONE-HALF TIMES WORKING PRESSURE FOR TWO HOURS. INCREASE PRESSURE IN 50-PSIG INCREMENTS AND INSPECT EACH JOINT BETWEEN INCREMENTS. HOLD AT TEST PRESSURE FOR 1 HOUR; DECREASE TO 0 PSIG. SLOWLY INCREASE AGAIN TO TEST PRESSURE AND HOLD FOR 1 MORE HOUR. MAXIMUM ALLOWABLE LEAKAGE IS 2 QUARTS PER HOUR PER 100 JOINTS. REMAKE LEAKING JOINTS WITH NEW MATERIALS AND REPEAT TEST UNTIL LEAKAGE IS WITHIN ALLOWED LIMITS.
- C. DISINFECTION: CLEAN AND DISINFECT POTABLE WATER MAINS AS DIRECTED BY THE LOCAL AUTHORITY, OR, IF METHOD IS NOT PRESCRIBED BY THE LOCAL AUTHORITY, USE PROCEDURE DESCRIBED IN AWWA C651.
- D. PREPARE REPORTS OF TESTING ACTIVITIES AND SUBMIT TO THE ENGINEER FOR APPROVAL.
- 4.) IDENTIFICATION
- A. INSTALL CONTINUOUS UNDERGROUND DETECTABLE WARNING TAPE DURING BACKFILLING OF TRENCH FOR UNDERGROUND WATER-DISTRIBUTION PIPING. LOCATE BELOW FINISHED GRADE, DIRECTLY OVER PIPING.

6. TOP SECTION: ECCENTRIC-CONE TYPE UNLESS CONCENTRIC-CONE OR FLAT-SLAB-TOP TYPE IS INDICATED, WITH TOP OF CONE OF SIZE THAT MATCHES GRADE RINGS.
 7. JOINT SEALANT: ASTM C 990, BITUMEN OR BUTYL RUBBER.
 8. EACH PIPE CONNECTION:
 9. STEPS: INDIVIDUAL FRP STEPS OR FRP LADDER, WIDE ENOUGH TO ALLOW WORKER TO PLACE BOTH FEET ON ONE STEP AND DESIGNED TO PREVENT LATERAL SLIPPAGE OFF STEP. CAST OR ANCHOR STEPS INTO SIDEWALLS AT 12- TO 16-INCH INTERVALS. OMIT STEPS IF TOTAL DEPTH FROM FLOOR OF MANHOLE TO FINISHED GRADE IS LESS THAN 48 INCHES.
 10. ADJUSTING RINGS: INTERLOCKING HDPE RINGS, WITH LEVEL OR SLOPED EDGE IN THICKNESS AND DIAMETER MATCHING MANHOLE FRAME AND COVER, AND WITH HEIGHT AS REQUIRED TO ADJUST MANHOLE FRAME AND COVER TO INDICATED ELEVATION AND SLOPE. INCLUDE SEALANT RECOMMENDED BY RING MANUFACTURER.
 11. GRADE RINGS: REINFORCED-CONCRETE RINGS, 6- TO 9-INCH TOTAL THICKNESS, WITH DIAMETER MATCHING MANHOLE FRAME AND COVER, AND WITH HEIGHT AS REQUIRED TO ADJUST MANHOLE FRAME AND COVER TO INDICATED ELEVATION AND SLOPE.
- B. MANHOLE FRAMES AND COVERS:
1. DESCRIPTION: FERROUS, 24-INCH ID BY 7- TO 9-INCH RISER, WITH 4-INCH- MINIMUM-WIDTH FLANGE AND 26-INCH- DIAMETER COVER. INCLUDE INDENTED TOP DESIGN WITH LETTERING CAST INTO COVER, USING WORDING EQUIVALENT TO "SANITARY SEWER."
 2. MATERIAL: ASTM A 536, GRADE 60-40-18 DUCTILE IRON UNLESS OTHERWISE INDICATED.
- 6.) IDENTIFICATION
- A. ARRANGE FOR INSTALLATION OF GREEN WARNING TAPES DIRECTLY OVER PIPING AND AT OUTSIDE EDGES OF UNDERGROUND MANHOLES.
1. USE WARNING TAPE OR DETECTABLE WARNING TAPE OVER FERROUS PIPING.
 2. USE DETECTABLE WARNING TAPE OVER NONFERROUS PIPING AND OVER EDGES OF UNDERGROUND MANHOLES.
- 7.) FIELD QUALITY CONTROL
- A. INSPECT INTERIOR OF PIPING TO DETERMINE WHETHER LINE DISPLACEMENT OR OTHER DAMAGE HAS OCCURRED. INSPECT AFTER APPROXIMATELY 24 INCHES OF BACKFILL IS IN PLACE, AND AGAIN AT COMPLETION OF PROJECT.
1. DEFECTS REQUIRING CORRECTION INCLUDE THE FOLLOWING:
 - a. ALIGNMENT: LESS THAN FULL DIAMETER OF INSIDE OF PIPE IS VISIBLE BETWEEN STRUCTURES.
 - b. DEFLECTION: FLEXIBLE PIPING WITH DEFLECTION THAT PREVENTS PASSAGE OF BALL OR CYLINDER OF SIZE NOT LESS THAN 92.5 PERCENT OF PIPING DIAMETER.
 - c. DAMAGE: CRUSHED, BROKEN, CRACKED, OR OTHERWISE DAMAGED PIPING.
 - d. INFILTRATION: WATER LEAKAGE INTO PIPING.
 - e. EXFILTRATION: WATER LEAKAGE FROM OR AROUND PIPING.
 2. REPLACE DEFECTIVE PIPING USING NEW MATERIALS, AND REPEAT INSPECTIONS UNTIL DEFECTS ARE WITHIN ALLOWANCES SPECIFIED.
 3. REINSPECT AND REPEAT PROCEDURE UNTIL RESULTS ARE SATISFACTORY.
- B. TEST NEW PIPING SYSTEMS, AND PARTS OF EXISTING SYSTEMS THAT HAVE BEEN ALTERED, EXTENDED, OR REPAIRED, FOR LEAKS AND DEFECTS.
1. DO NOT ENCLOSE, COVER, OR PUT INTO SERVICE BEFORE INSPECTION AND APPROVAL.
 2. TEST COMPLETED PIPING SYSTEMS ACCORDING TO REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION.
 3. SCHEDULE TESTS AND INSPECTIONS BY AUTHORITIES HAVING JURISDICTION WITH AT LEAST 24 HOURS ADVANCE NOTICE.
 4. SUBMIT A SEPARATE REPORT FOR EACH TEST TO THE ENGINEER FOR APPROVAL.
 5. AIR TESTS: TEST SANITARY SEWERAGE SYSTEMS ACCORDING TO REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION UN-B-6, AND THE FOLLOWING:
 - a. TEST PLASTIC GRAVITY SEWER PIPING ACCORDING TO ASTM F 1417.
 - b. MANHOLES: PERFORM HYDRAULIC TEST ACCORDING TO ASTM C 969.
 6. LEAKS AND LOSS IN TEST PRESSURE CONSTITUTE DEFECTS THAT MUST BE REPAIRED.
 7. REPLACE LEAKING PIPING USING NEW MATERIALS, AND REPEAT TESTING UNTIL LEAKAGE IS WITHIN ALLOWANCES SPECIFIED.

SITE STORM UTILITY DRAINAGE PIPING

PROVIDE SUBMITTALS TO ENGINEER FOR ALL MATERIALS PROPOSED FOR INSTALLATION. ALLOW 2 WEEKS FOR REVIEW AND APPROVAL

- 1.) PIPE AND FITTINGS- GENERAL
 - 2.) STEEL PIPE AND FITTINGS
 - 3.) PE PIPE AND FITTINGS
 - 4.) CORRUGATED PE DRAINAGE PIPE AND FITTINGS
 - 5.) CONCRETE PIPE AND FITTINGS
 - 6.) MANHOLES
 - 7.) STANDARD PRECAST CONCRETE MANHOLES
- A. ALL STORMWATER PIPE, INLETS, HEADWALLS, AND RELATED APPURTENANCES SHALL MEET LOCAL D.O.T. STANDARDS.
- B. ALL STORMWATER PIPE SHALL BE INSTALLED IN ACCORDANCE WITH PIPE MANUFACTURERS INSTRUCTIONS.
- 2.) STEEL PIPE AND FITTINGS
- A. CORRUGATED STEEL PIPE AND FITTINGS: ASTM A 760/A 760M, TYPE I WITH FITTINGS OF SIMILAR FORM AND CONSTRUCTION AS PIPE.
1. STANDARD-JOINT BANDS: CORRUGATED STEEL.
 2. COATING: ALUMINUM OR BITUMINOUS.
- 3.) PE PIPE AND FITTINGS
- A. CORRUGATED PE DRAINAGE PIPE AND FITTINGS NPS 3 TO NPS 10 - AASHTO M 252M; NPS 12 TO NPS 48 - AASHTO M 294M TYPE 5, WITH SMOOTH WATERWAY FOR COUPLING JOINTS.
- B. SLTIGHT COUPLINGS: PE SLEEVE WITH ASTM D 1056, TYPE 2, CLASS A, GRADE 2 GASKET MATERIAL THAT MATES WITH TUBE AND FITTINGS.
- 4.) PVC CORRUGATED PIPE AND FITTINGS
- A. CORRUGATED PVC DRAINAGE PIPE AND FITTINGS NPS 4 TO NPS 36: SMOOTH INTERIOR, ASTM F849, 46 PSI STIFFNESS WHEN TESTED IN ACCORDANCE WITH ASTM D2412. PVC COMPOUND HAVING A MINIMUM CELL CLASSIFICATION OF 12454 AS DEFINED IN ASTM D1784. FITTINGS: SMOOTH INTERIOR, ASTM F849, SECTION 5.2.3 OR F794, SECTION 7.2.4. JOINTS SHALL BE MADE WITH INTEGRALLY-FORMED BELL AND SPIGOT GASKETED CONNECTIONS. MANUFACTURER SHALL PROVIDE DOCUMENTATION SHOWING NO LEAKAGE WHEN GASKETED PIPE JOINTS ARE TESTED IN ACCORDANCE WITH ASTM D3212. ELASTOMERIC SEALS (GASKETS) SHALL MEET ASTM F477.
- 5.) CONCRETE PIPE AND FITTINGS
- A. REINFORCED-CONCRETE SEWER PIPE AND FITTINGS: ASTM C 76. BELL-AND-SPIGOT OR TONGUE-AND-GROOVE ENDS AND GASKETED JOINTS WITH ASTM C 443, RUBBER GASKETS OR SEALANT JOINTS WITH ASTM C 990, BITUMEN OR BUTYL-RUBBER SEALANT. CLASS III, WALL B.
- B. CAST-IRON AREA DRAINS: ASME A112.6.3 GRAY-IRON ROUND BODY WITH ANCHOR FLANGE AND ROUND GRATE. INCLUDE BOTTOM OUTLET WITH INSIDE CALK OR SPIGOT CONNECTION, OF SIZES INDICATED.
- 6.) MANHOLES
- A. STANDARD PRECAST CONCRETE MANHOLES:
1. DESCRIPTION: ASTM C 478, PRECAST, REINFORCED CONCRETE, OF DEPTH INDICATED, WITH PROVISION FOR SEALANT JOINTS.
 2. DIAMETER: 48 INCHES MINIMUM UNLESS OTHERWISE INDICATED.
 3. BALLAST: INCREASE THICKNESS OF PRECAST CONCRETE SECTIONS OR ADD CONCRETE TO BASE SECTION AS REQUIRED TO PREVENT FLOTATION.

4. BASE SECTION: 6-INCH MINIMUM THICKNESS FOR FLOOR SLAB AND 4-INCH MINIMUM THICKNESS FOR WALLS AND BASE RISER SECTION, AND SEPARATE BASE SLAB OR BASE SECTION WITH INTEGRAL FLOOR.
 5. RESILIENT SECTIONS: 4-INCH MINIMUM THICKNESS, AND LENGTHS TO PROVIDE DEPTH INDICATED.
 6. TOP SECTION: ECCENTRIC-CONE TYPE UNLESS CONCENTRIC-CONE OR FLAT-SLAB-TOP TYPE IS INDICATED, AND TOP OF CONE OF SIZE THAT MATCHES GRADE RINGS.
 7. JOINT SEALANT: ASTM C 990, BITUMEN OR BUTYL RUBBER.
 8. STEPS: INDIVIDUAL FRP STEPS OR FRP LADDER, WIDE ENOUGH TO ALLOW WORKER TO PLACE BOTH FEET ON ONE STEP AND DESIGNED TO PREVENT LATERAL SLIPPAGE OFF STEP. CAST OR ANCHOR STEPS INTO SIDEWALLS AT 12- TO 16-INCH INTERVALS. OMIT STEPS IF TOTAL DEPTH FROM FLOOR OF MANHOLE TO FINISHED GRADE IS LESS THAN 48 INCHES.
 9. ADJUSTING RINGS: INTERLOCKING HDPE RINGS, WITH LEVEL OR SLOPED EDGE IN THICKNESS AND DIAMETER MATCHING MANHOLE FRAME AND COVER, AND WITH HEIGHT AS REQUIRED TO ADJUST MANHOLE FRAME AND COVER TO INDICATED ELEVATION AND SLOPE. INCLUDE SEALANT RECOMMENDED BY RING MANUFACTURER.
 10. GRADE RINGS: REINFORCED-CONCRETE RINGS, 6- TO 9-INCH TOTAL THICKNESS, WITH DIAMETER MATCHING MANHOLE FRAME AND COVER, AND WITH HEIGHT AS REQUIRED TO ADJUST MANHOLE FRAME AND COVER TO INDICATED ELEVATION AND SLOPE.
- B. MANHOLE FRAMES AND COVERS:
1. DESCRIPTION: FERROUS, 24-INCH ID BY 7- TO 9-INCH RISER WITH 4-INCH- MINIMUM WIDTH FLANGE AND 26-INCH- DIAMETER COVER. INCLUDE INDENTED TOP DESIGN WITH LETTERING CAST INTO COVER, USING WORDING EQUIVALENT TO "STORM SEWER."
 2. MATERIAL: ASTM A 536, GRADE 60-40-18 DUCTILE IRON UNLESS OTHERWISE INDICATED.
- 7.) INLET & JUNCTION BOXES
- A. STANDARD PRECAST CONCRETE:
1. DESCRIPTION: ASTM C 478, PRECAST, REINFORCED CONCRETE, OF DEPTH INDICATED, WITH PROVISION FOR SEALANT JOINTS.
 2. BASE SECTION: 6-INCH MINIMUM THICKNESS FOR FLOOR SLAB AND 4-INCH MINIMUM THICKNESS FOR WALLS AND BASE RISER SECTION, AND SEPARATE BASE SLAB OR BASE SECTION WITH INTEGRAL FLOOR.
 3. RISER SECTIONS: 4-INCH MINIMUM THICKNESS, 48-INCH DIAMETER, AND LENGTHS TO PROVIDE DEPTH INDICATED.
 4. TOP SECTION: ECCENTRIC-CONE TYPE UNLESS CONCENTRIC-CONE OR FLAT-SLAB-TOP TYPE IS INDICATED, TOP OF CONE OF SIZE THAT MATCHES GRADE RINGS.
 5. JOINT SEALANT: ASTM C 990, BITUMEN OR BUTYL RUBBER.
 6. STEPS: INDIVIDUAL FRP STEPS OR FRP LADDER, WIDE ENOUGH TO ALLOW WORKER TO PLACE BOTH FEET ON ONE STEP AND DESIGNED TO PREVENT LATERAL SLIPPAGE OFF STEP. CAST OR ANCHOR STEPS INTO SIDEWALLS AT 12- TO 16-INCH INTERVALS. OMIT STEPS IF TOTAL DEPTH FROM FLOOR OF CATCH BASIN TO FINISHED GRADE IS LESS THAN 48 INCHES.
 7. PIPE CONNECTORS: ASTM C 923, RESILIENT, OF SIZE REQUIRED, FOR EACH PIPE CONNECTING TO BASE SECTION.

- 8.) PIPE OUTLETS
 - 9.) PIPING INSTALLATION
 - 10.) CLEANING
- A. PRE-CAST HEAD WALLS: PRE-CAST REINFORCED CONCRETE, WITH APRON AND TAPERED SIDES.
- B. SLOPE PAVED HEAD WALLS: CAST-IN-PLACE REINFORCED CONCRETE AS SHOWN ON DRAWINGS.
- C. RIPRAP BASINS: BROKEN, IRREGULARLY SIZED AND SHAPED, GRADED STONE ACCORDING TO NSSGA'S "QUARRIED STONE FOR EROSION AND SEDIMENT CONTROL," MINIMUM STONE SIZE AND DIMENSIONS AS SHOWN ON DRAWINGS.
- A. INSTALL LOCATOR WIRE OR TAPE 6-INCHES ABOVE ALL NON-METALLIC PIPING.
- B. INSTALL BEDDING AND BACKFILL IN ACCORDANCE WITH PIPE MANUFACTURERS INSTRUCTIONS.
- C. BEGIN INSTALLATION AT DOWNSTREAM PIPING CONNECTION TO OUTFALL POINT.
- D. CONSTRUCT ALL HEADWALLS FLUSH WITH EXISTING AND PROPOSED EMBANKMENT SLOPES.
- 10.) CLEANING
- A. CLEAN INTERIOR OF PIPING OF DIRT AND SUPERFLUOUS MATERIALS.

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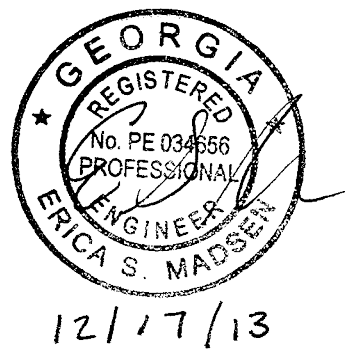
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DEVELOPER:

CONTACT:

PROJECT:

SEAL:



REVISIONS	DATE
ADDENDUM #1	11/20/2013

PROJECT MANAGER:	JWV
DRAWING BY:	NJP
JURISDICTION:	DUNWOODY, GA
DATE:	10 AUGUST 2013
SCALE:	AS SHOWN
TITLE:	

GENERAL NOTES

SHEET NUMBER:

G-2

COMMENTS:

JOB/FILE NUMBER:	487.001
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EARTH MOVING

- 1.) PROJECT CONDITIONS
- A. UTILITY LOCATOR SERVICE: NOTIFY UTILITY LOCATOR SERVICE FOR AREA WHERE PROJECT IS LOCATED BEFORE BEGINNING EARTH MOVING OPERATIONS.
- B. DO NOT COMMENCE EARTH MOVING OPERATIONS UNTIL TEMPORARY EROSION- AND SEDIMENTATION-CONTROL MEASURES, ARE IN PLACE.
- C. DO NOT COMMENCE EARTH MOVING OPERATIONS UNTIL PLANT-PROTECTION MEASURES ARE IN PLACE.
- D. DO NOT COMMENCE EARTH MOVING OPERATIONS WITHOUT REVIEWING AND MAKING PROVISIONS FOR ALL GEOTECHNICAL RECOMMENDATIONS MADE IN THE PROJECT GEOTECHNICAL REPORT. COMPLY WITH RECOMMENDATIONS IN THE GEOTECHNICAL REPORT REGARDING GENERAL SITE PREPARATION, BUILDING PAD PREPARATION, PAVEMENT SECTIONS, FILL, AND EXCAVATION.
- E. RETAIN A COPY OF THE PROJECT GEOTECHNICAL REPORT AT THE WORK SITE AT ALL TIMES. ANY DISCREPANCIES BETWEEN THESE SPECIFICATIONS AND THE PROJECT GEOTECHNICAL REPORT SHALL BE RESOLVED IN FAVOR OF THE PROJECT GEOTECHNICAL REPORT.
- F. PROTECT STRUCTURES, UTILITIES, SIDEWALKS, PAVEMENTS, AND OTHER FACILITIES FROM DAMAGE CAUSED BY SETTLEMENT, LATERAL MOVEMENT, UNDERMINING, WASHOUT, AND OTHER HAZARDS CREATED BY EARTH MOVING OPERATIONS.
- G. PROTECT AND MAINTAIN EROSION AND SEDIMENTATION CONTROLS DURING EARTH MOVING OPERATIONS.
- 2.) DEWATERING
- A. PREVENT SURFACE WATER AND GROUND WATER FROM ENTERING EXCAVATIONS, FROM PONDING ON PREPARED SUBGRADES, AND FROM FLOODING PROJECT SITE AND SURROUNDING AREA.
- B. PROTECT SUBGRADES FROM SOFTENING, UNDERMINING, WASHOUT, AND DAMAGE BY RAIN OR WATER ACCUMULATION.
- C. DESIGN AND PROVIDE DEWATERING SYSTEM USING ACCEPTED AND PROFESSIONAL METHODS CONSISTENT WITH CURRENT INDUSTRY PRACTICE. PROVIDE DEWATERING SYSTEM OF SUFFICIENT SIZE AND CAPACITY TO CONTROL GROUNDWATER IN A MANNER THAT PRESERVES STRENGTH OF FOUNDATION SOILS, DOES NOT CAUSE INSTABILITY OR RAVELING OF EXCAVATION SLOPES, AND DOES NOT RESULT IN DAMAGE TO EXISTING STRUCTURES. LOWER WATER LEVEL IN ADVANCE OF EXCAVATION BY UTILIZING WELLS, WELLPOINTS, OR SIMILAR POSITIVE CONTROL METHODS. MAINTAIN THE GROUNDWATER LEVEL TO A MINIMUM OF TWO (2) FEET BELOW EXCAVATIONS. PROVIDE PIEZOMETERS AS DIRECTED BY THE ENGINEER TO DOCUMENT THAT THE GROUNDWATER LEVEL IS BEING MAINTAINED.
- D. BY ACCEPTABLE MEANS, CONTRACTOR SHALL CONTROL ALL WATER REGARDLESS OF SOURCE AND IS RESPONSIBLE FOR PROPER DISPOSAL OF THE WATER. NO ADDITIONAL PAYMENT WILL BE MADE FOR ANY SUPPLEMENTAL MEASURES TO CONTROL SEEPAGE, GROUNDWATER, OR ARTESIAN HEAD.
- E. OPEN PUMPING WITH SUMPS AND DITCHES SHALL BE ALLOWED. PROVIDED IT DOES NOT RESULT IN BOILS, LOSS OF FINES, SOFTENING OF THE GROUND, OR INSTABILITY OF SLOPES. SUMPS SHALL BE LOCATED OUTSIDE OF LOAD BEARING AREAS SO THE BEARING SURFACES WILL NOT BE DISTURBED. WATER CONTAINING SILT IN SUSPENSION SHALL NOT BE PUMPED INTO SEWER LINES OR ADJACENT WATER BODIES. DURING NORMAL PUMPING AND UPON DEVELOPMENT OF WELLS(S), LEVELS OF FINE SAND OR SILT IN THE DISCHARGE OF WATER SHALL NOT EXCEED FIVE (5) PPM.
- F. CONTINUOUSLY MAINTAIN EXCAVATIONS IN A DRY CONDITION WITH POSITIVE DEWATERING METHODS DURING PREPARATION OF SUBGRADE, INSTALLATION OF PIPE, AND CONSTRUCTION OF STRUCTURES UNTIL THE CRITICAL PERIOD OF CONSTRUCTION AND/OR BACKFILL IS COMPLETED TO PREVENT DAMAGE OF SUBGRADE SUPPORT, PIPING, STRUCTURE, SIDE SLOPES, OR ADJACENT FACILITIES FOR FLOTATION OR OTHER HYDROSTATIC PRESSURE IMBALANCE.
- G. WHEN CONSTRUCTION IS COMPLETE, PROPERLY REMOVE ALL DEWATERING EQUIPMENT FROM THE SITE, INCLUDING WELLS AND RELATED TEMPORARY ELECTRICAL SERVICE.
- 3.) SUBGRADE
- A. NOTIFY PROJECT GEOTECHNICAL ENGINEER WHEN EXCAVATIONS HAVE REACHED REQUIRED SUBGRADE.
- B. IF PROJECT GEOTECHNICAL ENGINEER DETERMINES THAT UNSATISFACTORY SOIL IS PRESENT, CONTINUE EXCAVATION AND REPLACE WITH COMPACTED BACKFILL OR FILL MATERIAL AS DIRECTED.
- C. PROOF-ROLL SUBGRADE BELOW THE BUILDING SLABS AND PAVEMENTS WITH A PNEUMATIC-TIRED AND LOADED 10-WHEEL, TANDEM-AXLE DUMP TRUCK WEIGHING NOT LESS THAN 15 TONS TO IDENTIFY SOFT POCKETS AND AREAS OF EXCESS YIELDING. DO NOT PROOF-ROLL WET OR SATURATED SUBGRADES. EXCAVATE SOFT SPOTS, UNSATISFACTORY SOILS, AND AREAS OF EXCESSIVE PUMPING OR RUTTING, AS DETERMINED BY PROJECT GEOTECHNICAL ENGINEER, AND REPLACE WITH COMPACTED BACKFILL OR FILL AS DIRECTED.
- D. IN HEAVY DUTY PAVEMENT AREAS, THE GRAVEL AGGREGATE BASE SHALL BE EXTENDED UNDER THE CURB AND GUTTER SECTION TO PROVIDE ADDITIONAL STABILITY FOR TRUCK TRAVEL.
- 4.) UTILITY TRENCH BEDDING AND BACKFILL
- A. PLACE AND COMPACT BEDDING COURSE ON TRENCH BOTTOMS AND WHERE INDICATED. SHAPE BEDDING COURSE TO PROVIDE CONTINUOUS SUPPORT FOR BELLS, JOINTS, AND BARRELS OF PIPES AND FOR JOINTS, FITTINGS, AND BODIES OF CONDUITS.
- B. USE CLASS B BEDDING UNDER ALL PVC PIPING.
- C. CAREFULLY COMPACT INITIAL BACKFILL UNDER PIPE HAUNCHES AND COMPACT EVENLY UP ON BOTH SIDES AND ALONG THE FULL LENGTH OF PIPING OR CONDUIT TO AVOID DAMAGE OR DISPLACEMENT OF PIPING OR CONDUIT.
- D. BACKFILL ALL UTILITIES UNDER ROADWAYS AND TRAFFIC AREAS WITH CRUSHED STONE.
- 5.) COMPACTION OF SOIL BACKFILLS AND FILLS
- A. PLACE BACKFILL AND FILL SOIL MATERIALS IN LAYERS NOT MORE THAN 8 INCHES IN LOOSE DEPTH FOR MATERIAL COMPACTED BY HEAVY COMPACTION EQUIPMENT, AND NOT MORE THAN 4 INCHES IN LOOSE DEPTH FOR MATERIAL COMPACTED BY HAND-OPERATED TAMPERS.
- B. PLACE BACKFILL AND FILL SOIL MATERIALS EVENLY ON ALL SIDES OF STRUCTURES TO REQUIRED ELEVATIONS, AND UNIFORMLY ALONG THE FULL LENGTH OF EACH STRUCTURE. COMPACT SOIL MATERIALS AS INDICATED ON DRAWINGS OR AS INDICATED IN THE PROJECT GEOTECHNICAL REPORT.
- C. PROVIDE CONSTRUCTION PHASE MONITORING AND TESTING AS RECOMMENDED IN THE PROJECT GEOTECHNICAL REPORT. PROVIDE TEST REPORTS TO THE ENGINEER FOR REVIEW AND APPROVAL.
- 6.) GRADING
- A. GENERAL: UNIFORMLY GRADE AREAS TO A SMOOTH SURFACE. FREE OF IRREGULAR SURFACE CHANGES. COMPLY WITH COMPACTION REQUIREMENTS AND GRADE TO CROSS SECTIONS, LINES, AND ELEVATIONS INDICATED.
1. PROVIDE A SMOOTH TRANSITION BETWEEN ADJACENT EXISTING GRADES AND NEW GRADES.
2. CUT OUT SOFT SPOTS, FILL LOW SPOTS, AND TRIM HIGH SPOTS TO COMPLY WITH REQUIRED SURFACE TOLERANCES.
- B. LANDSCAPE ISLANDS: FILL ALL CURBED ISLANDS TO TOP OF CURB WITH TOPSOIL AND APPLY SEED AND MULCH UNLESS DRAWINGS INDICATE OTHERWISE.
- C. SLOPES: DO NOT CREATE CUT OR FILL SLOPES STEEPER THAN 2H:1V WITHOUT OBTAINING SPECIAL WRITTEN PERMISSION FROM THE ENGINEER OF RECORD AND PROJECT GEOTECHNICAL ENGINEER.
- 7.) PROTECTION
- A. PROTECTING GRADED AREAS: PROTECT NEWLY GRADED AREAS FROM TRAFFIC, FREEZING, AND EROSION. KEEP FREE OF TRASH AND DEBRIS. SEE EROSION AND SEDIMENT CONTROL PLAN AND NOTES FOR FURTHER INFORMATION.

CONCRETE PAVING

- 1.) PROJECT CONDITIONS
- A. TRAFFIC CONTROL: MAINTAIN ACCESS FOR VEHICULAR AND PEDESTRIAN TRAFFIC AS REQUIRED FOR OTHER CONSTRUCTION ACTIVITIES.
- 2.) STEEL REINFORCEMENT
- A. PLAIN-STEEL WELDED WIRE REINFORCEMENT: ASTM A 185/A 185M, FABRICATED FROM AS-DRAWN STEEL WIRE INTO FLAT SHEETS.
- B. REINFORCING BARS: ASTM A 615/A 615M, GRADE 60, DEFORMED.
- C. JOINT DOWEL BARS: ASTM A 615/A 615M, GRADE 60 PLAIN-STEEL BARS. CUT BARS TRUE TO LENGTH WITH ENDS SQUARE AND FREE OF BURRS.
- D. BAR SUPPORTS: BOLSTERS, CHAIRS, SPACERS, AND OTHER DEVICES FOR SPACING, SUPPORTING, AND FASTENING REINFORCING BARS, WELDED WIRE REINFORCEMENT, AND DOWELS IN PLACE. MANUFACTURE BAR SUPPORTS ACCORDING TO CRSI'S "MANUAL OF STANDARD PRACTICE" FROM STEEL WIRE, PLASTIC, OR PRECAST CONCRETE OF GREATER COMPRESSIVE STRENGTH THAN CONCRETE SPECIFIED, AND AS FOLLOWS:
- 3.) CONCRETE MATERIALS
- A. CEMENTITIOUS MATERIAL: USE CEMENTITIOUS MATERIALS, OF SAME TYPE, BRAND, AND SOURCE THROUGHOUT PROJECT.
- B. NORMAL-WEIGHT AGGREGATES: ASTM C 33, UNIFORMLY GRADED. PROVIDE AGGREGATES FROM A SINGLE SOURCE.
1. MAXIMUM COARSE-AGGREGATE SIZE: 1 INCH NOMINAL.
2. FINE AGGREGATE: FREE OF MATERIALS WITH DELETERIOUS REACTIVITY TO ALKALI IN CEMENT.
- 4.) RELATED MATERIALS
- A. JOINT FILLERS: ASTM D 1751, ASPHALT-SATURATED CELLULOSIC FIBER IN PREFORMED STRIPS.
- 5.) SIDEWALKS
- A. SIDEWALKS: SLOPE SIDEWALKS AWAY FROM BUILDING WITH A 1.5% CROSS-SLOPE UNLESS DRAWINGS INDICATE OTHERWISE.
- 6.) PREPARATION
- A. REMOVE LOOSE MATERIAL FROM COMPACTED SUBBASE SURFACE IMMEDIATELY BEFORE PLACING CONCRETE.
- 7.) STEEL REINFORCEMENT
- A. GENERAL: COMPLY WITH CRSI'S "MANUAL OF STANDARD PRACTICE" FOR FABRICATING, PLACING, AND SUPPORTING REINFORCEMENT.
- B. CLEAN REINFORCEMENT OF LOOSE RUST AND MILL SCALE, EARTH, ICE, OR OTHER BOND-REDUCING MATERIALS.
- C. ARRANGE, SPACE, AND SECURELY TIE THE BARS AND BAR SUPPORTS TO HOLD REINFORCEMENT IN POSITION DURING CONCRETE PLACEMENT. MAINTAIN MINIMUM COVER TO REINFORCEMENT.
- D. INSTALL WELDED WIRE REINFORCEMENT IN LENGTHS AS LONG AS PRACTICABLE. LAP ADJOINING PIECES AT LEAST ONE FULL MESH, AND LACE SPLICES WITH WIRE. OFFSET LAPS OF ADJOINING WIDTHS TO PREVENT CONTINUOUS LAPS IN EITHER DIRECTION.
- E. ZINC-COATED REINFORCEMENT: USE GALVANIZED-STEEL WIRE TIES TO FASTEN ZINC-COATED REINFORCEMENT. REPAIR CUT AND DAMAGED ZINC COATINGS WITH ZINC REPAIR MATERIAL.
- 8.) JOINTS
- A. GENERAL: FORM CONSTRUCTION, ISOLATION, AND CONTRACTION JOINTS AND TOOL EDGES TRUE TO LINE, WITH FACES PERPENDICULAR TO SURFACE PLANE OF CONCRETE. CONSTRUCT TRANSVERSE JOINTS AT RIGHT ANGLES TO CENTERLINE UNLESS OTHERWISE INDICATED.
1. WHEN JOINING EXISTING PAVING, PLACE TRANSVERSE JOINTS TO ALIGN WITH PREVIOUSLY PLACED JOINTS UNLESS OTHERWISE INDICATED.
2. ENSURE FORMS PROVIDE CORRECT HORIZONTAL AND VERTICAL ALIGNMENT BETWEEN NEW AND EXISTING PAVEMENTS, SIDEWALKS, CURB AND GUTTER, ETC.
- B. CONSTRUCTION JOINTS: SET CONSTRUCTION JOINTS AT SIDE AND END TERMINATIONS OF PAVING AND AT LOCATIONS WHERE PAVING OPERATIONS ARE STOPPED FOR MORE THAN ONE-HALF HOUR UNLESS PAVING TERMINATES AT ISOLATION JOINTS.
1. CONTINUE STEEL REINFORCEMENT ACROSS CONSTRUCTION JOINTS UNLESS OTHERWISE INDICATED. DO NOT CONTINUE REINFORCEMENT THROUGH SIDES OF PAVING STRIPS UNLESS OTHERWISE INDICATED.
2. PROVIDE TIE BARS AT SIDES OF PAVING STRIPS WHERE INDICATED.
3. KEYED JOINTS: PROVIDE PREFORMED KEYWAY-SECTION FORMS OR BULKHEAD FORMS WITH KEYS UNLESS OTHERWISE INDICATED. EMBED KEYS AT LEAST 1-1/2 INCHES INTO CONCRETE.
4. DOWELED JOINTS: INSTALL DOWEL BARS AND SUPPORT ASSEMBLIES AT JOINTS WHERE INDICATED. LUBRICATE OR COAT WITH ASPHALT ONE-HALF OF DOWEL LENGTH TO PREVENT CONCRETE BONDING TO ONE SIDE OF JOINT.
- C. ISOLATION JOINTS: FORM ISOLATION JOINTS OF PREFORMED JOINT-FILLER STRIPS ABUTTING CONCRETE CURBS, CATCH BASINS, MANHOLES, INLETS, STRUCTURES, OTHER FIXED OBJECTS, AND WHERE INDICATED.
1. LOCATE EXPANSION JOINTS AT INTERVALS OF 30 FEET UNLESS OTHERWISE INDICATED.
2. EXTEND JOINT FILLERS FULL WIDTH AND DEPTH OF JOINT.
3. TERMINATE JOINT FILLER NOT LESS THAN 1/2 INCH OR MORE THAN 1 INCH BELOW FINISHED SURFACE IF JOINT SEALANT IS INDICATED.
4. PLACE TOP OF JOINT FILLER FLUSH WITH FINISHED CONCRETE SURFACE IF JOINT SEALANT IS NOT INDICATED.
5. FURNISH JOINT FILLERS IN ONE-PIECE LENGTHS. WHERE MORE THAN ONE LENGTH IS REQUIRED, LACE OR CLIP JOINT-FILLER SECTIONS TOGETHER.
6. DURING CONCRETE PLACEMENT, PROTECT TOP EDGE OF JOINT FILLER WITH METAL, PLASTIC, OR OTHER TEMPORARY PREFORMED CAP. REMOVE PROTECTIVE CAP AFTER CONCRETE HAS BEEN PLACED ON BOTH SIDES OF JOINT.
- D. CONTRACTION JOINTS: FORM WEAKENED-PLANE CONTRACTION JOINTS, SECTIONING CONCRETE INTO AREAS AS INDICATED. CONSTRUCT CONTRACTION JOINTS FOR A DEPTH EQUAL TO AT LEAST ONE-FOURTH OF THE CONCRETE THICKNESS, AS FOLLOWS:
1. GROOVED JOINTS: FORM CONTRACTION JOINTS AFTER INITIAL FLOATING BY GROOVING AND FINISHING EACH EDGE OF JOINT WITH GROOVING TOOL TO A 1/4-INCH RADIUS. REPEAT GROOVING OF CONTRACTION JOINTS AFTER APPLYING SURFACE FINISHES. ELIMINATE GROOVING-TOOL MARKS ON CONCRETE SURFACES.
2. SAWED JOINTS: FORM CONTRACTION JOINTS WITH POWER SAWS EQUIPPED WITH SHATTERPROOF ABRASIVE OR DIAMOND-RIMMED BLADES. CUT 1/8-INCH- WIDE JOINTS INTO CONCRETE WHEN CUTTING ACTION WILL NOT TEAR, ABRASE, OR OTHERWISE DAMAGE SURFACE AND BEFORE DEVELOPING RANDOM CONTRACTION CRACKS.
3. DOWELED CONTRACTION JOINTS: INSTALL DOWEL BARS AND SUPPORT ASSEMBLIES AT JOINTS WHERE INDICATED. LUBRICATE OR COAT WITH ASPHALT ONE-HALF OF DOWEL LENGTH TO PREVENT CONCRETE BONDING TO ONE SIDE OF JOINT.
- E. EDGING: AFTER INITIAL FLOATING, TOOL EDGES OF PAVING, GUTTERS, CURBS, AND JOINTS IN CONCRETE WITH AN EDGING TOOL TO A 1/4-INCH RADIUS. REPEAT TOOLING OF EDGES AFTER APPLYING SURFACE FINISHES. ELIMINATE EDGING-TOOL MARKS ON CONCRETE SURFACES.
- 9.) FIELD QUALITY CONTROL
- A. TESTING AGENCY: ENGAGE A QUALIFIED TESTING AGENCY TO PERFORM TESTS AND

- INSPECTIONS.
- B. PROMPTLY SEND TEST REPORTS TO THE ENGINEER FOR REVIEW AND APPROVAL.
- C. TESTING SERVICES: TESTING OF COMPOSITE SAMPLES OF FRESH CONCRETE OBTAINED ACCORDING TO ASTM C 172 SHALL BE PERFORMED BY THE GENERAL CONTRACTOR'S TESTING AGENCY ACCORDING TO THE FOLLOWING REQUIREMENTS:
1. STEEL REINFORCEMENT: OBTAIN AT LEAST ONE COMPOSITE SAMPLE FOR EACH 100 CU. YD. OR FRACTION THEREOF OF EACH CONCRETE MIXTURE PLACED EACH DAY, WHEN FREQUENCY OF TESTING WILL PROVIDE FEWER THAN FIVE COMPRESSIVE-STRENGTH TESTS FOR EACH CONCRETE MIXTURE. TESTING SHALL BE CONDUCTED FROM AT LEAST FIVE RANDOMLY SELECTED BATCHES OR FROM EACH BATCH IF FEWER THAN FIVE ARE USED.
2. SLUMP: ASTM C 143/C 143M, ONE TEST AT POINT OF PLACEMENT FOR EACH COMPOSITE SAMPLE, BUT NOT LESS THAN ONE TEST FOR EACH DAY'S POUR OF EACH CONCRETE MIXTURE. PERFORM ADDITIONAL TESTS WHEN CONCRETE CONSISTENCY APPEARS TO CHANGE.
3. AIR CONTENT: ASTM C 231, PRESSURE METHOD, ONE TEST FOR EACH COMPOSITE SAMPLE, BUT NOT LESS THAN ONE TEST FOR EACH DAY'S POUR OF EACH CONCRETE MIXTURE.
4. CONCRETE TEMPERATURE: ASTM C 1064/C 1064M, ONE TEST HOURLY WHEN AIR TEMPERATURE IS 40 DEG F AND BELOW AND WHEN IT IS 80 DEG F AND ABOVE, AND ONE TEST FOR EACH COMPOSITE SAMPLE.
5. COMPRESSION TEST SPECIMENS: ASTM C 31/C 31M, CAST AND LABORATORY CURE ONE SET OF THREE STANDARD CYLINDER SPECIMENS FOR EACH COMPOSITE SAMPLE.
6. COMPRESSIVE-STRENGTH TESTS: ASTM C 39/C 39M, TEST ONE SPECIMEN AT SEVEN DAYS AND TWO SPECIMENS AT 28 DAYS. A COMPRESSIVE-STRENGTH TEST SHALL BE THE AVERAGE COMPRESSIVE STRENGTH FROM TWO SPECIMENS OBTAINED FROM SAME COMPOSITE SAMPLE AND TESTED AT 28 DAYS.
- D. STRENGTH OF EACH CONCRETE MIXTURE WILL BE SATISFACTORY IF AVERAGE OF ANY THREE CONSECUTIVE COMPRESSIVE-STRENGTH TESTS EQUALS OR EXCEEDS SPECIFIED COMPRESSIVE STRENGTH AND NO COMPRESSIVE-STRENGTH TEST VALUE FALLS BELOW SPECIFIED COMPRESSIVE STRENGTH BY MORE THAN 500 PSI.
- E. TEST RESULTS SHALL BE REPORTED IN WRITING TO ENGINEER, CONCRETE MANUFACTURER, AND CONTRACTOR WITHIN 48 HOURS OF TESTING. REPORTS OF COMPRESSIVE-STRENGTH TESTS SHALL CONTAIN PROJECT IDENTIFICATION NAME AND NUMBER, DATE OF CONCRETE PLACEMENT, NAME OF CONCRETE TESTING AND INSPECTING AGENCY, LOCATION OF CONCRETE BATCH IN WORK, DESIGN COMPRESSIVE STRENGTH AT 28 DAYS, CONCRETE MIXTURE PROPORTIONS AND MATERIALS, COMPRESSIVE-BREAKING STRENGTH, AND TYPE OF BREAK FOR BOTH 7- AND 28-DAY TESTS.
- F. ADDITIONAL TESTS: TESTING AND INSPECTING AGENCY SHALL MAKE ADDITIONAL TESTS OF CONCRETE WHEN TEST RESULTS INDICATE THAT SLUMP, AIR ENTRAINMENT, COMPRESSIVE STRENGTHS, OR OTHER REQUIREMENTS HAVE NOT BEEN MET, AS DIRECTED BY ENGINEER.
- G. CONCRETE PAVING WILL BE CONSIDERED DEFECTIVE IF IT DOES NOT PASS TESTS AND INSPECTIONS.
- H. ADDITIONAL TESTING AND INSPECTING, AT CONTRACTOR'S EXPENSE, WILL BE PERFORMED TO DETERMINE COMPLIANCE OF REPLACED OR ADDITIONAL WORK WITH SPECIFIED REQUIREMENTS.
1. PREPARE TEST AND INSPECTION REPORTS.
- 10.) REPAIRS
- A. REMOVE AND REPLACE CONCRETE PAVING THAT IS BROKEN, DAMAGED, OR DEFECTIVE OR THAT DOES NOT COMPLY WITH REQUIREMENTS IN THIS SECTION. REMOVE WORK IN COMPLETE SECTIONS FROM JOINT TO JOINT UNLESS OTHERWISE APPROVED BY ENGINEER.
- B. DRILL TEST CORES, WHERE DIRECTED BY ENGINEER, WHEN NECESSARY TO DETERMINE MAGNITUDE OF CRACKS OR DEFECTIVE AREAS. FILL DRILLED CORE HOLES IN SATISFACTORY PAVING AREAS WITH PORTLAND CEMENT CONCRETE BONDED TO PAVING WITH EPOXY ADHESIVE. PROTECT CONCRETE FROM PAVING-OR DAMAGE. EXCLUDE TRAFFIC FROM PAVING FOR AT LEAST 14 DAYS AFTER PLACEMENT. WHEN CONSTRUCTION TRAFFIC IS PERMITTED, MAINTAIN PAVING AS CLEAN AS POSSIBLE BY REMOVING SURFACE STAINS AND SPILLAGE OF MATERIALS AS THEY OCCUR.
- D. MAINTAIN CONCRETE PAVING FREE OF STAINS, DISCOLORATION, DIRT, AND OTHER FOREIGN MATERIAL. SWEEP PAVING NOT MORE THAN TWO DAYS BEFORE DATE SCHEDULED FOR SUBSTANTIAL COMPLETION INSPECTIONS.

CHAIN LINK FENCES AND GATES

- 1.) PROJECT CONDITIONS
- A. FIELD MEASUREMENTS: VERIFY LAYOUT INFORMATION FOR CHAIN-LINK FENCES AND GATES SHOWN ON DRAWINGS IN RELATION TO PROPERTY SURVEY AND EXISTING STRUCTURES. VERIFY DIMENSIONS BY FIELD MEASUREMENTS.
- B. PROVIDE SUBMITTAL OF PROPOSED MATERIALS TO ENGINEER. ALLOW TWO WEEKS FOR REVIEW/APPROVAL.
- 2.) WARRANTY
- A. SPECIAL WARRANTY: MANUFACTURER'S STANDARD FORM IN WHICH INSTALLER AGREES TO REPAIR OR REPLACE COMPONENTS OF CHAIN-LINK FENCES AND GATES THAT FAIL IN MATERIALS OR WORKMANSHIP WITHIN SPECIFIED WARRANTY PERIOD.
- 3.) CHAIN-LINK FENCE FABRIC
- A. GENERAL: PROVIDE FABRIC IN ONE-PIECE HEIGHTS MEASURED BETWEEN TOP AND BOTTOM OF OUTER EDGE OF SELVAGE KNUCKLE OR TWIST. COMPLY WITH CLEM PRODUCT MANUAL AND WITH REQUIREMENTS INDICATED BELOW:
1. FABRIC HEIGHT: AS INDICATED ON DRAWINGS.
2. STEEL WIRE FABRIC: WIRE WITH A DIAMETER OF 0.148 INCH.
- a. MESH SIZE: 2 INCHES.
- b. POLYMER-COATED FABRIC: ASTM F 688, OVER ZINC-COATED STEEL WIRE. COLOR: BLACK, COMPLYING WITH ASTM F 834.
3. SELVAGE: TWISTED TOP AND KNUCKLED BOTTOM.
- 4.) FENCE FRAMING
- A. POSTS AND RAILS: COMPLY WITH ASTM F 1043 FOR FRAMING, INCLUDING RAILS, BRACES, AND LINE, TERMINAL, AND CORNER POSTS. PROVIDE MEMBERS WITH MINIMUM DIMENSIONS AND WALL THICKNESS ACCORDING TO ASTM F 1043 BASED ON THE FOLLOWING:
1. FENCE HEIGHT: AS INDICATED ON DRAWINGS.
2. MATERIAL
- a. LINE POST: 1.9 INCHES IN DIAMETER.
- b. END, CORNER AND PULL POST: 2.375 INCHES.
3. HORIZONTAL FRAMEWORK MEMBERS: TOP RAILS COMPLYING WITH ASTM F 1043. TOP RAIL: 1.68 INCHES IN DIAMETER.
4. BRACE RAILS: COMPLY WITH ASTM F 1043.
5. METALLIC COATING FOR STEEL FRAMING: TYPE A, CONSISTING OF NOT LESS THAN MINIMUM 2.0 OZ./SQ. FT. AVERAGE ZINC COATING PER ASTM A 123/A 123M OR 4.0 OZ./SQ. FT. ZINC COATING PER ASTM A 653/A 653M.
- 5.) TENSION WIRE
- A. METALLIC-COATED STEEL WIRE: 0.177-INCH- DIAMETER, MARCELLED TENSION WIRE COMPLYING WITH ASTM A 817 AND ASTM A 824, WITH THE FOLLOWING METALLIC COATING: TYPE II, ZINC COATED (GALVANIZED) BY HOT-DIP PROCESS, WITH THE FOLLOWING MINIMUM COATING WEIGHT:

- MATCHING CHAIN-LINK FABRIC COATING WEIGHT.
- 6.) SWING GATES
- A. GENERAL: COMPLY WITH ASTM F 900 FOR GATE POSTS AND SINGLE OR DOUBLE SWING GATE TYPES.
1. GATE LEAF WIDTH: AS INDICATED.
2. GATE FABRIC HEIGHT: AS INDICATED.
- B. PIPE AND TUBING:
1. ZINC-COATED STEEL: COMPLY WITH ASTM F 1043 AND ASTM F 1083; PROTECTIVE COATING AND FINISH TO MATCH FENCE FRAMING.
2. GATE POSTS: ROUND TUBULAR STEEL.
3. GATE FRAMES AND BRACING: ROUND TUBULAR STEEL.
- C. FRAME CORNER CONSTRUCTION: ASSEMBLED WITH CORNER FITTINGS.
- D. HARDWARE:
1. HINGES: 360-DEGREE INWARD AND OUTWARD SWING.
2. LATCHES PERMITTING OPERATION FROM BOTH SIDES OF GATE WITH PROVISION FOR PADLOCKING ACCESSIBLE FROM BOTH SIDES OF GATE.
- 7.) FITTINGS
- A. GENERAL: COMPLY WITH ASTM F 626.
- B. POST CAPS: PROVIDE FOR EACH POST. PROVIDE LINE POST CAPS WITH LOOP TO RECEIVE TENSION WIRE OR TOP RAIL.
- C. RAIL AND BRACE ENDS: FOR EACH GATE, CORNER, PULL, AND END POST.
- D. RAIL FITTINGS: PROVIDE THE FOLLOWING:
1. TOP RAIL SLEEVES: PRESSED-STEEL OR ROUND-STEEL TUBING NOT LESS THAN 6 INCHES LONG.
2. RAIL CLAMPS: LINE AND CORNER BOULEVARD CLAMPS FOR CONNECTING RAILS IN THE FENCE LINE-TO-LINE POSTS.
- E. TENSION AND BRACE BANDS: PRESSED STEEL.
- F. TENSION BARS: STEEL, LENGTH NOT LESS THAN 2 INCHES SHORTER THAN FULL HEIGHT OF CHAIN-LINK FABRIC. PROVIDE ONE BAR FOR EACH GATE AND END POST, AND TWO FOR EACH CORNER AND PULL POST, UNLESS FABRIC IS INTEGRALLY WOVEN INTO POST.
- G. TRUSS ROD ASSEMBLIES: STEEL, HOT-DIP GALVANIZED AFTER THREADING ROD AND TURNBUCKLE OR OTHER MEANS OF ADJUSTMENT.
- H. TIE WIRES, CLIPS, AND FASTENERS: ACCORDING TO ASTM F 626, STANDARD ROUND WIRE TIES: FOR ATTACHING CHAIN-LINK FABRIC TO POSTS, RAILS, AND FRAMES, COMPLYING WITH THE FOLLOWING: HOT-DIP GALVANIZED STEEL: 0.148-INCH- DIAMETER WIRE; GALVANIZED COATING THICKNESS MATCHING COATING THICKNESS OF CHAIN-LINK FENCE FABRIC.
- 8.) GROUT AND ANCHORING CEMENT
- A. NONSHRINK, NONMETALLIC GROUT: PREMIXED, FACTORY-PACKAGED, NONSTAINING, NONCORROSIVE, NONGASEOUS GROUT COMPLYING WITH ASTM C 1107. PROVIDE GROUT, RECOMMENDED IN WRITING BY MANUFACTURER, FOR EXTERIOR APPLICATIONS.
- B. EROSION-RESISTANT ANCHORING CEMENT: FACTORY-PACKAGED, NONSHRINK, NONSTAINING, HYDRAULIC-CONTROLLED EXPANSION CEMENT FORMULATION FOR MIXING WITH POTABLE WATER AT PROJECT SITE TO CREATE POURABLE ANCHORING, PATCHING, AND GROUTING COMPOUND. PROVIDE FORMULATION THAT IS RESISTANT TO EROSION FROM WATER EXPOSURE WITHOUT NEEDING PROTECTION BY A SEALER OR WATERPROOF COATING AND THAT IS RECOMMENDED IN WRITING BY MANUFACTURER, FOR EXTERIOR APPLICATIONS.
- 9.) ADJUSTING
- A. GATES: ADJUST GATES TO OPERATE SMOOTHLY, EASILY, AND QUIETLY, FREE OF BINDING, WARP, EXCESSIVE DEFLECTION, DISTORTION, NONALIGNMENT, MISPLACEMENT, DISRUPTION, OR MALFUNCTION, THROUGHOUT ENTIRE OPERATIONAL RANGE. CONFIRM THAT LATCHES AND LOCKS ENGAGE ACCURATELY AND SECURELY WITHOUT FORCING OR BINDING.

ENGINEER:

FORESITE
group

Foresite Group, Inc.
5185 Peachtree Pkwy.
Suite 240
Norcross, GA 30092

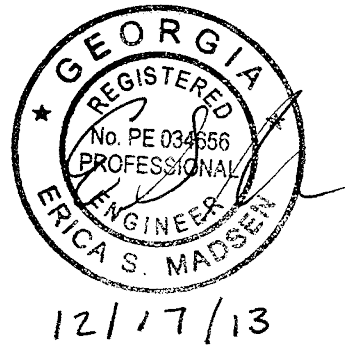
o | 770.368.1399
f | 770.368.1944
w | www.fg-inc.net

DEVELOPER:

CONTACT:

PROJECT:

SEAL:



REVISIONS	DATE
ADDENDUM #1	11/20/2013

PROJECT MANAGER: JWW

DRAWING BY: NJP

JURISDICTION: DUNWOODY, GA

DATE: 10 AUGUST 2013

SCALE: AS SHOWN

TITLE:

GENERAL NOTES

SHEET NUMBER:

G-2.1

COMMENTS:

JOB/FILE NUMBER: 487.001

AERIAL PHOTOGRAPH



UTILITY NOTE

THE UNDERGROUND UTILITIES SHOWN HEREON ARE BASED ON LOCATION OF MARKINGS PROVIDED BY:

UTILISURVEY, LLC
514 Dunella Lane
Peachtree City, GA 30269
404-312-6912

THE UNDERGROUND UTILITIES (EXCEPT THE LOCATION OF EXISTING DRAINAGE, SEWER AND IRRIGATION UTILITIES AS WELL AS UNDERGROUND STORAGE TANKS) WERE LOCATED BY UTILISURVEY, LLC, UTILIZING RADIO FREQUENCY TECHNIQUE. THIS TECHNIQUE IS CAPABLE OF LOCATING METALLIC UTILITIES AND TRACER WIRES. ANY NON-METALLIC UTILITIES (WITHOUT TRACER WIRE) ARE NOT LOCATED.

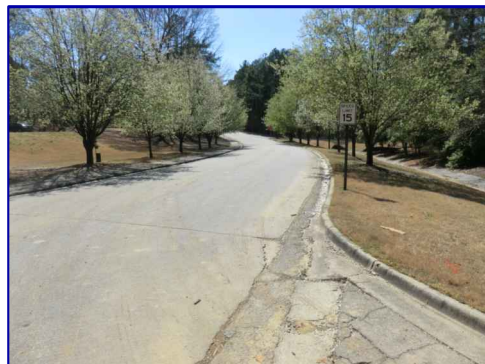
THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN-SERVICE OR ABANDONED. UNDERGROUND UTILITIES NOT OBSERVED OR LOCATED UTILIZING THIS TECHNIQUE MAY EXIST ON THIS SITE BUT NOT BE SHOWN, AND MAY BE FOUND UPON EXCAVATION. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH THE SURVEYOR DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE.

INFORMATION REGARDING MATERIAL AND SIZE OF UTILITIES IS BASED ON RECORDS ACQUIRED FROM THE UTILITY OWNERS.

SITE PHOTOGRAPHS



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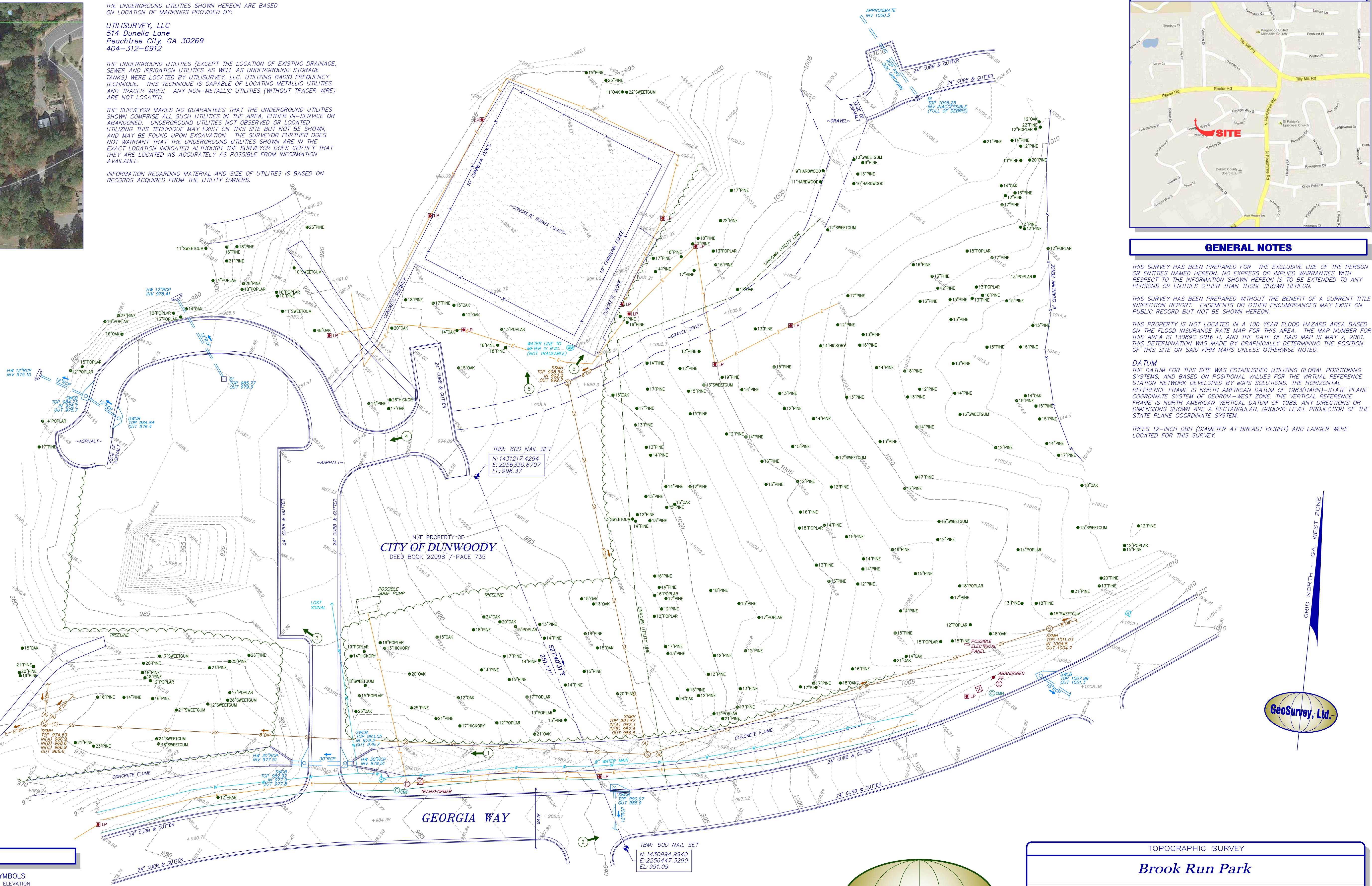
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6



LEGEND

STANDARD ABBREVIATIONS

AC AIR CONDITIONER
BH BORE HOLE
CI CURB INLET
CMP CORRUGATED METAL PIPE
CMF CONCRETE MONUMENT FND
CO SANITARY CLEANOUT
CPED COMMUNICATION PEDESTAL
CTP CRIMPED TOP PIPE
DI DROP INLET
DIP DUCTILE IRON PIPE
DWCB DOUBLE WING CATCH BASIN
FNC FENCE
FND FOUND
GM GAS METER
INV INVERT
JB JUNCTION BOX
MH MANHOLE
OHP OVERHEAD POWER
OTP OPEN TOP PIPE
PM POWER METER
POB POINT OF BEGINNING
POC POINT OF COMMENCING
RFR REINFORCED CONCRETE PIPE
RBR IRON REINFORCING BAR
RBS 5/8\"/>

STANDARD SYMBOLS

X 000.00 SPOT ELEVATION
- - - - - GUY WIRE
- - - - - POWER LINE
- - - - - LIGHT POLE
ELECTRIC TRANSFORMER
WATER VAULT
GAS VALVE
GAS METER
WATER VALVE
WATER METER
FIRE HYDRANT
UNDERGROUND ELECTRIC LINE
UNDERGROUND GAS LINE
UNDERGROUND COMMUNICATION LINE
UNDERGROUND WATER LINE
PHOTO POSITION INDICATOR
TREE POSITION INDICATOR

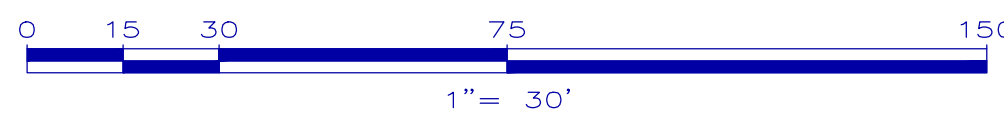
IF YOU DIG



Know what's below.
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Or Call 800-282-7411

GRAPHIC SCALE



CLOSURE STATEMENT

THE FIELD CLOSURE UPON WHICH THIS PLAT IS BASED HAS A CLOSURE PRECISION OF ONE FOOT IN 48,531, AND WAS ADJUSTED USING THE LEAST SQUARES METHOD. A TRIMBLE S-6 ROBOTIC TOTAL STATION AND TDS RANGER DATA COLLECTOR WERE USED TO COLLECT THIS FIELD DATA.

THIS PLAT HAS BEEN CALCULATED FOR CLOSURE AND WAS FOUND TO BE ACCURATE WITHIN ONE FOOT IN 1/2\"/>



Land Surveying & Mapping

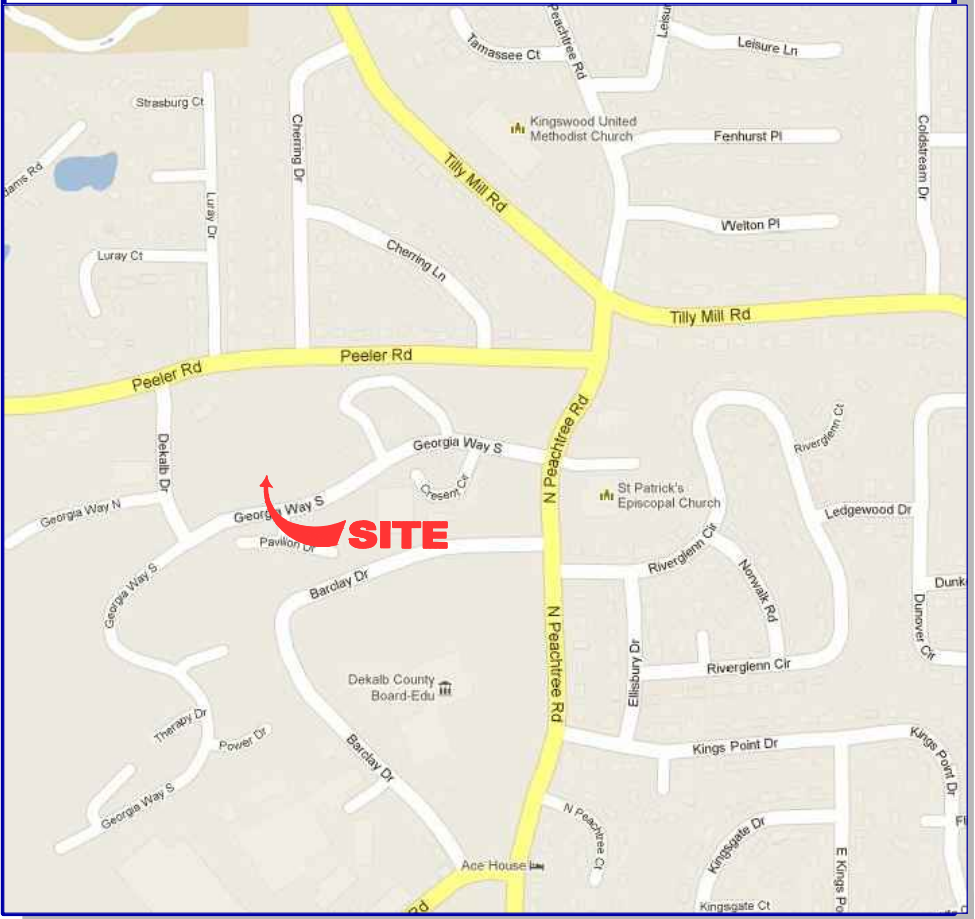
1660 Barnes Mill Road
Marietta, Georgia 30062

Phone: (770) 795-9900
Fax: (770) 795-8880

www.geosurvey.com

VICINITY MAP

SITE LOCATION - LATITUDE: 33° 56' 05" LONGITUDE: 84° 18' 59"



GENERAL NOTES

THIS SURVEY HAS BEEN PREPARED FOR THE EXCLUSIVE USE OF THE PERSON OR ENTITIES NAMED HEREON. NO EXPRESS OR IMPLIED WARRANTIES WITH RESPECT TO THE INFORMATION SHOWN HEREON IS TO BE EXTENDED TO ANY PERSONS OR ENTITIES OTHER THAN THOSE SHOWN HEREON.

THIS SURVEY HAS BEEN PREPARED WITHOUT THE BENEFIT OF A CURRENT TITLE INSPECTION REPORT. EASEMENTS OR OTHER ENCUMBRANCES MAY EXIST ON PUBLIC RECORD BUT NOT BE SHOWN HEREON.

THIS PROPERTY IS NOT LOCATED IN A 100 YEAR FLOOD HAZARD AREA BASED ON THE FLOOD INSURANCE RATE MAP FOR THIS AREA. THE MAP NUMBER FOR THIS AREA IS 13089C 0016 H, AND THE DATE OF SAID MAP IS MAY 7, 2001. THIS DETERMINATION WAS MADE BY GRAPHICALLY DETERMINING THE POSITION OF THIS SITE ON SAID FIRM MAPS UNLESS OTHERWISE NOTED.

DATUM
THE DATUM FOR THIS SITE WAS ESTABLISHED UTILIZING GLOBAL POSITIONING SYSTEMS, AND BASED ON POSITIONAL VALUES FOR THE VIRTUAL REFERENCE STATION NETWORK DEVELOPED BY eGPS SOLUTIONS. THE HORIZONTAL REFERENCE FRAME IS NORTH AMERICAN DATUM OF 1983 (NAD83) - STATE PLANE COORDINATE SYSTEM OF GEORGIA - WEST ZONE. THE VERTICAL REFERENCE FRAME IS NORTH AMERICAN VERTICAL DATUM OF 1988. ANY DIRECTIONS OR DIMENSIONS SHOWN ARE A RECTANGULAR, GROUND LEVEL PROJECTION OF THE STATE PLANE COORDINATE SYSTEM.

TREES 12-INCH DBH (DIAMETER AT BREAST HEIGHT) AND LARGER WERE LOCATED FOR THIS SURVEY.



TOPOGRAPHIC SURVEY

Brook Run Park

FOR

CITY OF DUNWOODY

GS JOB NO:	20134493-1	DRAWING SCALE:	1" = 30'	SURVEY DATE:	APRIL 1, 2013
FIELD WORK:	TB	CITY:	DUNWOODY	STATE:	GA
PROJ MGR:	DLH	COUNTY:	DEKALB	No. Date	Revisions
REVIEWED:	JRC	LAND LOT:	354		
DWG FILE:	20134493-1.dwg	DISTRICT:	18th		

GENERAL NOTES:

- 1) THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING THE DEMOLITION PERMIT FROM THE CITY OF DUNWOODY PRIOR TO DEMOLITION OF THE SITE.
- 2) ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY WORK INCLUDING DEMOLITION.
- 3) ALL CONSTRUCTION RELATED PERMITS DURING THE CONSTRUCTION PHASE OF THIS PROJECT ARE THE RESPONSIBILITY OF THE CONTRACTOR.
- 4) REMOVE SHRUBS AND TREES AS NOTED. GRUB OUT ROOTS AND STUMPS AND LEGALLY DISPOSE OF DEBRIS.

DEMOLITION NOTES:

- 1) ALL NEW WORK SHOWN IN THESE SHEETS SHALL COMPLY WITH APPLICABLE STATE, FEDERAL, AND LOCAL BUILDING AND UTILITY INSTALLATION CODES.
- 2) ALL MATERIALS AND CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH 2013 STANDARD SPECIFICATIONS FOR CONSTRUCTION OF TRANSPORTATION SYSTEMS EXCEPT IN CASES WHERE, WITHIN THE CITY OF DUNWOODY JURISDICTION, THE COUNTY STANDARD SPECIFICATIONS ARE MORE STRINGENT.
- 3) THERE MAY BE ADDITIONAL UTILITIES NOT SHOWN ON THESE PLANS. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR LOCATIONS SHOWN, AND IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY THE LOCATIONS OF ALL UTILITIES WITHIN THE LIMITS OF CONSTRUCTION AND TO NOTIFY THE OWNER IN CASE OF DISCREPANCIES THAT AFFECT THE CONSTRUCTION PROJECT.
- 4) THE CONTRACTOR IS RESPONSIBLE FOR NOTIFICATION OF AND LIAISON WITH UTILITY COMPANIES IN THE PROCESS OF LOCATION AND RELOCATION OF AND TIE-IN TO PUBLIC UTILITIES.
- 5) CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE THAT MAY OCCUR TO ANY ADJACENT STRUCTURES OR PROPERTY, OR ANY EXISTING STRUCTURES WITHIN LIMITS OF CONSTRUCTION THAT ARE DESIGNATED ON THE PLANS TO REMAIN, AND SHALL REPAIR OR REPLACE SUCH DAMAGED PROPERTY TO THE PROPERTY OWNER'S SATISFACTION AT NO COST TO THE OWNER.
- 6) THE CONTRACTOR SHALL NOT DEVIATE FROM THESE PLANS AND SPECIFICATIONS WITHOUT THE PRIOR WRITTEN CONSENT OF THE ENGINEER.
- 7) CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE CITY OF DUNWOODY AND ALL EXISTING UTILITY PROVIDERS BEFORE REMOVING ANY/ALL UTILITIES FROM THEIR EXISTING LOCATION ON THE SITE. THE CONTRACTOR SHALL PERFORM ALL UTILITY DEMOLITION OR RELOCATION ACTIVITIES IN ACCORDANCE WITH THE EXISTING UTILITIES SPECIFICATIONS, MATERIALS, AND REQUIREMENTS.
- 8) THE CONTRACTOR SHALL SEQUENCE THE WORK AND PROVIDE TEMPORARY MEASURES AS NECESSARY TO MAINTAIN ACCESS TO THE SITE THROUGH ALL ENTRANCES AT ALL TIMES DURING CONSTRUCTION. TEMPORARY PROVISIONS MAY INCLUDE, BUT ARE NOT LIMITED TO: BARRICADES, FLAGMAN, TEMPORARY PAVEMENT, AND DIRECTIONAL SIGNAGE AS NECESSARY TO ACCOMPLISH THE WORK.
- 9) CONTRACTOR SHALL CONSIDER COORDINATION ASPECTS OF CRANES AND CONSTRUCTION EQUIPMENT OPERATIONS DURING DEMOLITION ACTIVITY.
- 10) CONTRACTOR EQUIPMENT SHALL NOT BE PARKED IN COUNTY, CITY OR STATE RIGHT-OF-WAY, AND MUST BE STORED WITHIN SITE.
- 11) COORDINATE WITH THE CITY OF DUNWOODY AS REQUIRED DURING ALL DEMOLITION AND NEW CONSTRUCTION ACTIVITIES.
- 12) APPROVAL OF THESE PLANS DOES NOT CONSTITUTE APPROVAL BY THE CITY OF DUNWOODY OF ANY LAND DISTURBING ACTIVITIES WITHIN WETLAND AREAS. IT IS THE RESPONSIBILITY OF THE PROPERTY OWNER TO CONTACT THE APPROPRIATE REGULATORY AGENCY FOR APPROVAL OF ANY WETLAND AREA DISTURBANCE.
- 13) ALL BUFFERS AND TREE SAVE AREAS SHALL BE CLEARLY IDENTIFIED BY FLAGGING AND/OR FENCING PRIOR TO COMMENCEMENT OF ANY LAND DISTURBANCE.
- 14) THE CONTRACTOR SHALL DISPOSE OF ANY HAZARDOUS MATERIALS IN STRICT ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL LAWS.
- 15) ALL ITEMS DESIGNATED FOR REMOVAL SHALL BE LEGALLY DISPOSED OF, OFF SITE.
- 16) CONTRACTOR TO CONTACT UTILITIES PROTECTION CENTER PRIOR TO ANY EXCAVATION.
- 17) CONTRACTOR TO POT HOLE EXISTING WATER LINE, UNDERGROUND ELECTRICAL LINES, GAS LINE, UNDERGROUND TELEPHONE, FIBER OPTIC, AND ANY OTHER UTILITY LINES WITHIN THE RIGHT OF WAY DURING DEMOLITION ACTIVITIES AND COORDINATE FIELD LOCATIONS AND DEPTHS OF THESE UTILITIES WITH ENGINEER FOR PROPOSED UTILITY CROSSINGS AND PROPOSED PAVEMENT OVER EXISTING LINES. THESE LINES MAY REQUIRE RELOCATION.
- 18) EXISTING LIGHTS AND CONCRETE BASES IN TREE SAVE AREAS SHALL BE REMOVED USING HAND EQUIPMENT TO AVOID DAMAGE TO TREES AND ROOT ZONES.

EROSION CONTROL NOTES

(SEE ALSO EROSION CONTROL PLAN)

- 1) EROSION CONTROL DEVICES ARE TO BE INSTALLED PRIOR TO ANY CLEARING OR EARTHWORK OPERATIONS AND SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION AND UNTIL PERMANENT GROUND COVER IS ESTABLISHED IN ALL DISTURBED AREAS.
- 2) THE CONTRACTOR SHALL PROVIDE DUST CONTROL AND SHALL PROTECT ADJACENT PAVEMENTS FROM SOIL ACCUMULATION DURING CONSTRUCTION.
- 3) ADDITIONAL EROSION CONTROL DEVICES MAY BE REQUIRED BY THE ENGINEER OR OTHER INSPECTORS AS DETERMINED BY FIELD CONDITIONS.

LEGEND	
	GRAVEL
	BUILDING/CONCRETE TO BE REMOVED
	ASPHALT, GRAVEL, AND/OR CURB & GUTTER TO BE REMOVED
	EXISTING FENCE
	PROPERTY LINE
	LIMITS OF DISTURBANCE
	TREE PROTECTION FENCE
	EXISTING TREE TO BE REMOVED

EXISTING SITE DATA	
TOTAL DISTURBED AREA =	1.618 AC.
EXISTING PERVIOUS AREA (WITHIN DISTURBANCE) =	0.868 AC.
EXISTING IMPERVIOUS AREA (WITHIN DISTURBANCE) =	0.750 AC.

LOCATION OF EXISTING STREAM, VERIFIED BY ECOLOGICAL SOLUTIONS.

(2) EX. FLOOD LIGHTS (TO BE REMOVED. CONTRACTOR TO VERIFY POWER STATUS OF LIGHTS PRIOR TO REMOVAL.) (TYP.) (SEE NOTE #18 FOR ADDITIONAL INFO)

ASPHALT DRIVEWAY AND 24" CURB AND GUTTER (TO BE REMOVED. CONTRACTOR TO FILL WITH 6" OF TOPSOIL. TOPSOIL TO BE APPROVED BY OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION)

EX HEADWALL & 12" RCP (TO REMAIN)

EX DROP INLET (TO BE REMAIN)

HEADWALL AND 12" RCP, (TO REMAIN)

EX. CATCH BASIN (TO BE CONVERTED TO PEDESTAL INLET)

CATCH BASIN, AND 12" RCP (TO BE REMOVED)

FULL EXTENT OF 8" ASPHALT PATH (TO BE REMOVED)

(4) EX. LIGHTS AT TENNIS COURT (TO REMAIN) (TYP.)
CONCRETE TENNIS COURT AND FENCING (TO BE REMOVED. CONTRACTOR TO FILL WITH 6" OF TOPSOIL. TOPSOIL TO BE APPROVED BY OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION)
CONCRETE SIDEWALK (TO BE REMOVED)

ASSUMED END OF WATER LINE. CONTRACTOR TO VERIFY LOCATION, SIZE AND MATERIAL PRIOR TO THE START OF CONSTRUCTION. NOTIFY ENGINEER IN WRITING OF ANY DISCREPANCIES FROM THIS PLAN.

EX SUMP PUMP (TO REMAIN)

GEORGIA WAY

EXISTING FIRE HYDRANT (TO REMAIN)

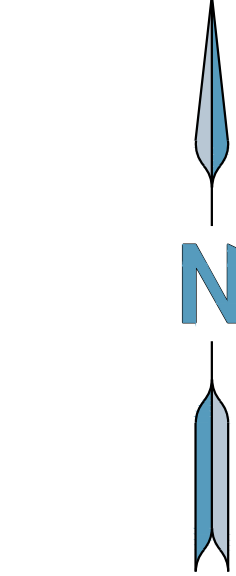
(2) SINGLE WING CATCH BASINS (TO BE CONVERTED TO JUNCTION BOXES)

EX. ASPHALT (CONTRACTOR TO SAW-CUT AND REMOVE)

EX. 24" CURB AND GUTTER (CONTRACTOR TO SAW-CUT AND REMOVE) (TYP.)

EX. FLOOD LIGHT & CONCRETE BASE (TO BE REMOVED) (TYP.)

EXISTING 8" WATER MAIN



30 15 0 30 60
SCALE IN FEET

ENGINEER:

FORESITE
group

Foresite Group, Inc.
5185 Peachtree Pkwy.
Suite 240
Norcross, GA 30092

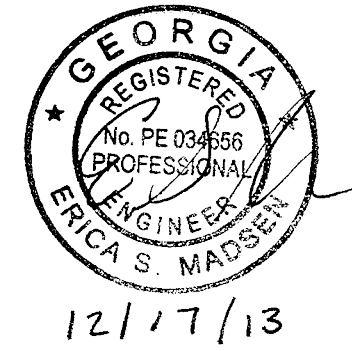
o | 770.368.1399
f | 770.368.1944
w | www.fg-inc.net

DEVELOPER:

CONTACT:

PROJECT:

SEAL:



REVISIONS DATE

ADDENDUM #1 11/20/2013

PROJECT MANAGER: JWW

DRAWING BY: NJP

JURISDICTION: DUNWOODY, GA

DATE: 10 AUGUST 2013

SCALE: 1" = 30'

TITLE:

DEMOLITION PLAN

SHEET NUMBER:

C-0

COMMENTS:

JOB/FILE NUMBER: 487.001



Know what's below
Call before you dig

GENERAL NOTES:

- 1) ALL PROPOSED DIMENSIONS USED TO SHOW THE GEOMETRIC LAYOUT ARE SHOWN AT THE EDGE OF INDICATED ELEMENT. ALL PROPOSED DIMENSIONS USED TO SHOW THE GEOMETRIC LAYOUT OF THE PROPOSED BUILDING LOCATION ARE GIVEN AT THE OUTSIDE FACE OF THE BUILDING CORNERS.
- 2) CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES BETWEEN THE EXISTING CONDITIONS IN THE FIELD AND THE SURVEY SHOWN ON THE PLANS BEFORE PROCEEDING WITH ANY NEW CONSTRUCTION.
- 3) CONTRACTOR IS RESPONSIBLE FOR CORRECT HORIZONTAL AND VERTICAL ALIGNMENT OF ALL TIES BETWEEN PROPOSED AND EXISTING PAVEMENTS, CURB AND GUTTER, SIDEWALKS, WALLS, AND UTILITIES.

SITE NOTES:

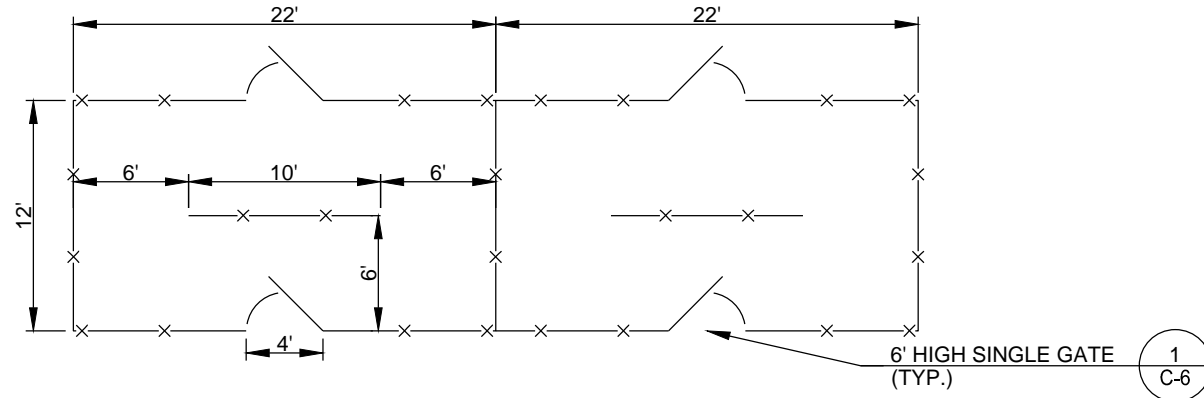
- 1) TRACT IS ZONED: R-85 (SINGLE-FAMILY RESIDENTIAL)
- 2) SEE ARCHITECTURAL PLANS FOR BUILDING FLOOR PLAN DIMENSIONS, DOOR LOCATIONS, SITE LIGHTING PLAN, AND OTHER ARCHITECTURAL DETAILS.
- 3) NO CERTIFICATE OF OCCUPANCY WILL BE ISSUED UNTIL ALL SITE IMPROVEMENTS HAVE BEEN COMPLETED ON THE SITE.
- 4) ALL BUFFERS, TREE SAVE AREAS, AND UNDISTURBED AREAS SHALL BE CLEARLY IDENTIFIED BY FLAGGING AND/OR FENCING PRIOR TO COMMENCEMENT OF ANY LAND DISTURBANCE.
- 5) NO OUTSIDE STORAGE IS PROPOSED. THIS INCLUDES SUPPLIES, VEHICLE, EQUIPMENT, PRODUCTS, ETC.
- 6) SIGNS (LOCATION, NUMBER, AND SIZE) ARE NOT APPROVED UNDER THIS DEVELOPMENT PERMIT. A SEPARATE PERMIT IS REQUIRED FOR ON-SITE SIGNAGE.
- 7) ALL CONSTRUCTION RELATED PERMITS DURING THE CONSTRUCTION PHASE OF THIS PROJECT ARE THE RESPONSIBILITY OF THE OWNER, HOWEVER A CONTRACTOR/DEVELOPER CAN DO PERMITTING WITH AGENT AUTHORIZATION.
- 8) CONSTRUCTION TRAILERS ARE TO BE PERMITTED THROUGH THE ZONING DIVISION OF COMMUNITY DEVELOPMENT.
- 9) ALL EROSION, SEDIMENT CONTROL AND TREE PROTECTION MEASURES SHALL BE INSTALLED PRIOR TO ANY GRADING.
- 10) MAXIMUM CUT OR FILL SLOPE=2H:1V
- 11) THE CITY OF DUNWOODY ACCEPTS NO RESPONSIBILITY FOR THE AMERICANS WITH DISABILITIES ACT (ADA), EXCEPT FOR NOTIFICATION REQUIREMENT. THE OWNER/DEVELOPER IS SOLELY RESPONSIBLE FOR COMPLIANCE FOR SAID ACT.
- 12) 24 HOUR CONTACT: BRENT WALKER, (678) 382-6857
- 13) CONTRACTOR SHALL COORDINATE WITH THE CITY/COUNTY JURISDICTION, WATER AND SEWER JURISDICTION, AND DEPARTMENT OF TRANSPORTATION INSPECTORS REGARDING ALL CERTIFICATE OF OCCUPANCY REQUIREMENTS AND COORDINATE WITH THE ENGINEER APPROXIMATELY 8 WEEKS PRIOR TO ANTICIPATED CERTIFICATE OF OCCUPANCY DATE REGARDING ANY ITEMS REQUIRING APPROVAL OR CERTIFICATIONS BY THE ENGINEER.

LEGEND

- CONCRETE SIDEWALK PAVING
- HARDWOOD MULCH TRAIL
- G.A.B. PATH
- TRAFFIC SIGN
- 6' CHAINLINK FENCE
- 4' CHAINLINK FENCE

SITE DATA

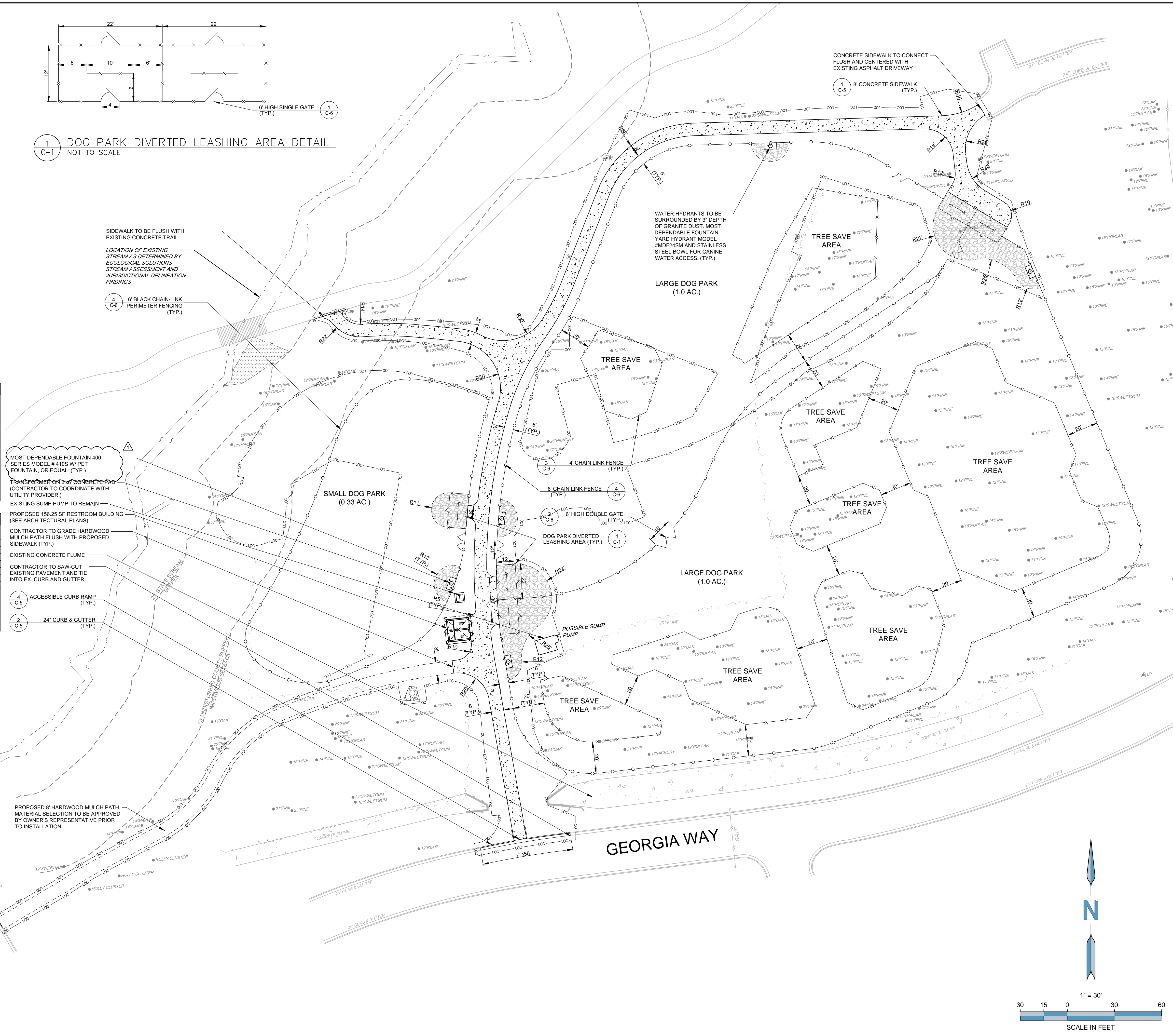
ZONING:	R-85 (SINGLE-FAMILY RESIDENTIAL)
FUTURE LAND USE DESIGNATION:	R-85 (SINGLE-FAMILY RESIDENTIAL)
PARCEL IDENTIFICATION NUMBER:	
TOTAL SITE AREA:	1.62 AC.
PROJECT SITE AREA:	1.62 AC.
DISTURBED AREA:	1.62 AC.
PERVIOUS SURFACE AREA:	1.42 AC.
IMPERVIOUS SURFACE AREA:	0.20 AC.
CANOPIES AND OVERHANGS:	0 S.F.
TOTAL GROUND FLOOR AREA:	210.25 S.F.
FLOOR AREA RATIO MAXIMUM:	20.00 %
FLOOR AREA RATIO PROPOSED:	0.30 %
BUILDING HEIGHT:	15 FT - 3 IN



1 DOG PARK DIVERTED LEASHING AREA DETAIL
C-1 NOT TO SCALE

SIDEWALK TO BE FLUSH WITH EXISTING CONCRETE TRAIL
LOCATION OF EXISTING STREAM AS DETERMINED BY ECOLOGICAL SOLUTIONS STREAM ASSESSMENT AND JURISDICTIONAL DELINEATION FINDINGS

4 6' BLACK CHAIN-LINK PERIMETER FENCING (TYP.)



ENGINEER:

FORESITE
group

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5185 Peachtree Pkwy.
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Norcross, GA 30092

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f | 770.368.1944
w | www.fg-inc.net

DEVELOPER:

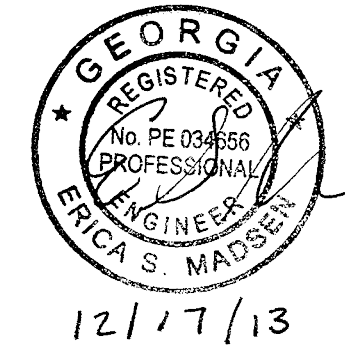
CONTACT:

PROJECT:

BROOK RUN DOG PARK
CONSTRUCTION DOCUMENTS

4770 N. PEACHTREE RD.
DUNWOODY, DEKALB COUNTY, GEORGIA 30338
L.L. 354, 18TH DISTRICT

SEAL:



REVISIONS

ADDENDUM #1 11/20/2013

PROJECT MANAGER: JMW

DRAWING BY: NJP

JURISDICTION: DUNWOODY, GA

DATE: 10 AUGUST 2013

SCALE: 1" = 30'

TITLE:

SITE & PAVING PLAN

SHEET NUMBER:

C-1

COMMENTS:

JOB/FILE NUMBER: 487.001



Know what's below
Call before you dig

GENERAL NOTES:

- 1) ALL SPOT ELEVATIONS SHOWN ARE AT THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
- 2) ALL PROPOSED SIDEWALKS SHALL BE BUILT WITH A 1.5% CROSS-SLOPE AWAY FROM THE BUILDING.
- 3) ALL HEAD WALL SECTIONS SHALL BE CONSTRUCTED TO BE FLUSH WITH THE EXISTING DITCH BANK AND PROPOSED EMBANKMENT SLOPES.

SITE NOTES:

- 1) THE CONTRACTOR SHALL CLEAN OUT ACCUMULATED SILT IN STORM WATER CONVEYANCE CHANNELS AND PIPES AT END OF CONSTRUCTION WHEN DISTURBED AREAS HAVE BEEN STABILIZED.
- 2) COORDINATE WITH THE CITY OF DUNWOODY INSPECTIONS DURING CONSTRUCTION.
- 3) NO CERTIFICATE OF OCCUPANCY WILL BE ISSUED UNTIL ALL SITE IMPROVEMENTS HAVE BEEN COMPLETED.
- 4) CONSTRUCT EROSION CONTROL BARRIERS PER THE CITY OF DUNWOODY INSPECTOR AND MAINTAIN UNTIL PERMANENT VEGETATION IS ESTABLISHED.
- 5) THE CONTRACTOR SHALL RE-ESTABLISH ALL RIGHT OF WAY AREA WHICH IS DAMAGED OR DISTURBED TO ORIGINAL CONDITIONS OR BETTER DURING AUTHORIZED WORK. ALL WORK IN THE CITY OF DUNWOODY RIGHT OF WAY SHALL COMPLY WITH GDOT SPECIFICATIONS.
- 6) ALL CURBED LANDSCAPE ISLANDS SHALL BE FILLED TO TOP OF CURB WITH TOPSOIL AND SEEDED.
- 7) MAXIMUM CUT OR FILL SLOPES IS 2H:1V
- 8) TREE PROTECTION FENCE SHALL BE INSTALLED PRIOR TO ANY CLEARING OR GRADING ACTIVITIES.
- 9) ALL NON-METALLIC STORM PIPE SHOWN ON THIS PLAN SHALL BE WRAPPED WITH LOCATION WIRE AND TAPE.
- 10) IN ALL AREAS OF FILL OR OTHERWISE DISTURBANCE OF EXISTING CONDITIONS, UNLESS OTHERWISE NOTED, THE CONTRACTOR SHALL FULLY AND COMPLETELY REMOVE AND LEGALLY DISPOSE OFF-SITE. ALL PLANT MATERIALS INCLUDING BUT NOT LIMITED TO ROOT SYSTEMS, CONCRETE, REINFORCED CONCRETE, ASPHALT DEBRIS, UNDERBRUSH, TOPSOIL, AND OTHER DELETERIOUS MATERIAL. THE SUBGRADE TO REMAIN SHALL BE COMPACTED TO 95% STANDARD PROCTOR MAXIMUM DRY DENSITY FOLLOWING FULL REMOVAL OF THESE MATERIALS.
- 11) REFER TO SUBSURFACE EXPLORATION AND GEOTECHNICAL ENGINEERING EVALUATION REPORTS AS PROVIDED BY OWNER FOR RECOMMENDATIONS ASSOCIATED WITH: GENERAL SITE PREPARATION, BUILDING PAD PREPARATION, SUBGRADE PREP, AREAS TO RECEIVE FILL, AREAS TO BE OVEREXCAVATED, PAVEMENT SECTIONS, FILL, SLOPES AND EXCAVATION. THE CONTRACTOR SHALL HAVE THIS REPORT ON THE JOB SITE FOR REFERENCE AT ALL TIMES. THE CONTRACTOR SHALL PROVIDE EARTHWORK OPERATIONS AND CONSTRUCTION PHASE MONITORING TO ENSURE THAT ALL COMPACTION IS COMPLETED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT. THE CONTRACTOR SHALL PROVIDE TESTING REPORTS TO THE OWNER REGARDING COMPACTION TESTING PER THE TESTING PROTOCOL IN THE GEOTECHNICAL REPORT.
- 12) COMPACTION OF ALL FILL MATERIAL BETWEEN THE FRONT AND REAR BUILDING LINES TO BE 95% STANDARD PROCTOR MUST BE CERTIFIED BY GEORGIA REGISTERED PROFESSIONAL SOILS ENGINEER PRIOR TO THE INSTALLATION OF CURB. THIS CERTIFICATION WILL BE SUBMITTED TO THE CHIEF DEVELOPMENT INSPECTIONS. LOTS WITH 2' OF FILL OR GREATER, AS DELINEATED ON THE CONSTRUCTION PLANS, WILL REQUIRE A COMPACTION CERTIFICATION PRIOR TO ISSUANCE OF BUILDING PERMIT. THE ENGINEER WILL ALSO PROVIDE A LETTER LISTING THOSE LOTS THAT REQUIRE COMPACTION CERTIFICATION. THOSE LOTS THAT REQUIRE COMPACTION CERTIFICATION WILL BE INDICATED ON THE FINAL RECORDED PLAT.
- 13) IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN QUALIFIED PROFESSIONAL ADVICE WHEN QUESTIONS ARISE CONCERNING DESIGN AND EFFECTIVENESS OF EROSION CONTROL DEVICES. 24 HR. CONTACT: JASON WECKERLY (770) 368-1399
- 14) NO PORTION OF THIS SITE LIES WITHIN A SPECIAL FLOOD HAZARD AREA PER PAVEL 13089C0016J DATED 05/16/2013
- 15) EROSION CONTROL MEASURES ARE TO BE ACCOMPLISHED PRIOR TO ANY OTHER CONSTRUCTION ON THE SITE AND MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.
- 16) EXTREME CAUTION SHALL BE USED WHEN WORKING WITHIN THE VICINITY OF THE EXISTING OVERHEAD POWER LINES. CONTRACTORS SHALL NOTIFY/COORDINATE WITH GEORGIA POWER PRIOR TO CONSTRUCTION.

LEGEND	
	EXISTING CONTOURS
	PROPOSED CONTOURS
	EXISTING STORM PIPE
	PROPOSED STORM PIPE
	EXISTING SPOT ELEVATION
	PROPOSED SPOT ELEVATION

EARTHWORK CALCULATIONS

REQUIRED CUT =	+	206	CY
REQUIRED FILL =	-	502	CY
ADDITIONAL CUT FROM CONCRETE BASE =	+	264	CY
ADDITIONAL CUT FROM FOUNDATION =	+	16	CY
BALANCE:		-16	CY

NOTE: A SHRINKAGE OF 15% WAS USED FOR THESE CALCULATIONS.
REQUIRED CUT IS IN SITU CUT.

CITY OF DUNWOODY NOTES:

- 1) CONTACT THE CITY OF DUNWOODY PLANNER/ARBORIST AT 678.382.6810 TO DETERMINE IF A PRE-CONSTRUCTION MEETING PRIOR TO ANY LAND DISTURBANCE IS REQUIRED. ALL REQUIRED TREE FENCE MUST BE INSTALLED PRIOR TO THIS MEETING.
- 2) UNDISTURBED BUFFERS SHALL BE PLANTED TO BUFFER STANDARDS WHERE SPARSELY VEGETATED OR WHERE DISTURBED DUE TO APPROVED UTILITY CROSSINGS. REPLANTING IS SUBJECT TO CITY PLANNER/ARBORIST APPROVAL. (DO NOT PLANT TREES WITHIN THE SANITARY SEWER EASEMENT.)
- 3) CALL BEFORE YOU DIG: 800.282.7411

SWALE #1
(SEE SWALE CALCULATIONS
AND SECTION ON THIS
SHEET)

SWALES TO BE LINED WITH NA
GREEN C125BN OR APPROVED
EQUAL (TYP.)
PATH TO BE INSTALLED ON
EXISTING GRADE

STR. 200 (EXISTING HW)
25-YR STORM VELOCITY LEAVING
EXISTING HEADWALL = 7.11 FPS

STR. 300 (EXISTING HW)
25-YR STORM VELOCITY LEAVING
EXISTING HEADWALL = 4.55 FPS

STR. 302 (PROPOSED GRATE)
GDOT STD 1019A TYPE "A"
CONVERT EX. SWCB INTO
GRATE. TOP TO BE FLUSH
WITH PROPOSED GRADE.

STR. 202 (EX. GRATE)

STR. 204 (PROPOSED GRATE)
GDOT STD 1019A TYPE "A"

RESTROOM FFE = 986.25
(CONTRACTOR TO GRADE
GRASSY AREA AT 2%
MINIMUM AWAY FROM
BUILDING FOR 10'
BEYOND ROOF LINE)

STR. 102 (HW)
GDOT STD 1001-B

STR. 100 (PROPOSED HW)
GDOT STD 1001-B

WALK TO BE GRADED
AT 5% MAX. SLOPE TO
RESTROOM BUILDING

SWALE #2
(SEE SWALE CALCULATIONS
AND TYPICAL SECTION ON
THIS SHEET)

TIE INTO EXISTING AT 3:1
MAX. SLOPE

GEORGIA WAY

CONVERT EX. DWCB INTO MANHOLE.
TOP TO BE FLUSH WITH PROPOSED GRADE.
CONVERT EX. DWCB INTO MANHOLE.
TOP TO BE FLUSH WITH PROPOSED GRADE.

LINE ENTIRE SWALE WITH NA
GREEN C125BN OR APPROVED EQUAL

SWALE TO DRAIN TO EX. FLUME
EXISTING (2) HEADWALLS AND 30"
RCP STORM PIPE

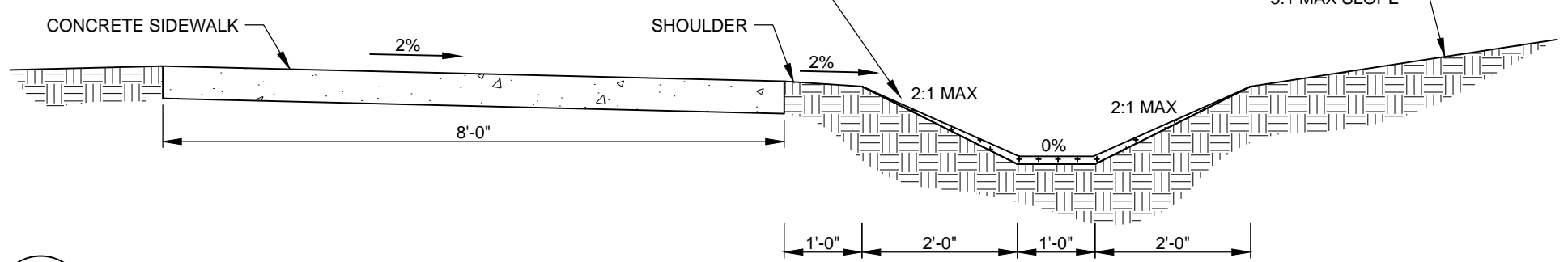
TREE PROTECTION AREA (TYP.)
EXISTING CONCRETE FLUME
(TYP.)

N

1" = 30'

30 15 0 30 60
SCALE IN FEET

1 C-2 TYPICAL SWALE CROSS SECTION
1" = 2'



SWALE CALCULATIONS										
SWALE ID	Q25 (cfs)	CHANNEL ROUGHNESS (n)	AVG. SLOPE (%)	CHANNEL WIDTH (ft)	CHANNEL HEIGHT (ft)	MAX. FLOW DEPTH (ft)	V25 (fps)	PERMISSIBLE SHEAR (psf)	CALCULATED SHEAR (psf)	SAFETY FACTOR
2	4.5	0.022	5	1	1	0.41	4.78	2.35	1.26	1.86



Know what's below
Call before you dig

ENGINEER:

FORESITE
group

Foresite Group, Inc.
5185 Peachtree Pkwy.
Suite 240
Norcross, GA 30092

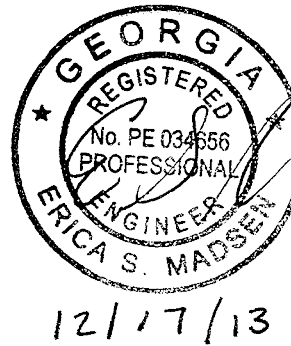
o | 770.368.1399
f | 770.368.1944
w | www.fg-inc.net

DEVELOPER:

CONTACT:

PROJECT:

SEAL:



REVISIONS DATE

ADDENDUM #1 11/20/2013

PROJECT MANAGER: JWM

DRAWING BY: NJP

JURISDICTION: DUNWOODY, GA

DATE: 10 AUGUST 2013

SCALE: 1" = 30'

TITLE:

GRADING & DRAINAGE PLAN

SHEET NUMBER:

C-2

COMMENTS:

JOB/FILE NUMBER: 487.001

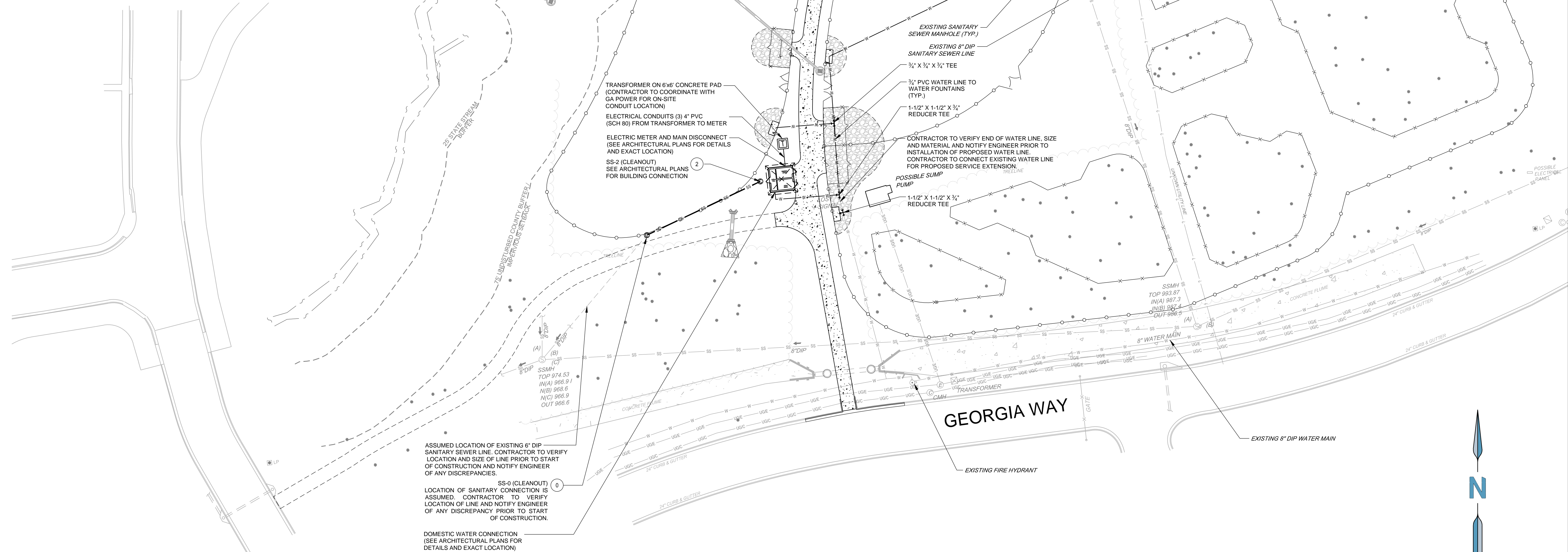
UTILITY NOTES:

- 1) GEORGIA POWER WILL PROVIDE UNDERGROUND ELECTRICAL SERVICE FROM THE EXISTING SERVICE POLE TO THE TRANSFORMER PAD. CONTRACTOR MUST PROVIDE TWO 6" PVC (SCH 80) CONDUITS AND A PULL STRING FROM THE EXISTING ELECTRICAL SERVICE POLE TO THE PROPOSED TRANSFORMER LOCATION. THE CONTRACTOR IS ALSO RESPONSIBLE FOR INSTALLING THREE 6" PVC CONDUITS AND SECONDARY WIRING FROM THE TRANSFORMER PAD TO THE PROPOSED BUILDING. THE CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THE POWER SERVICE INSTALLATION AND SHALL COORDINATE WITH THE POWER COMPANY FOR FINAL UNDERGROUND CONDUIT LOCATIONS.
- 2) COORDINATE AS REQUIRED WITH THE CITY OF DUNWOODY AND DEKALB COUNTY INSPECTIONS DURING CONSTRUCTION FOR REQUIRED INSPECTIONS.
- 3) THIS SITE INDICATES POTABLE WATER SERVICE AND SANITARY SEWER LATERALS. GEORGIA STATE LAW REQUIRES THIS WORK TO BE INSTALLED BY AN GEORGIA LICENSED PLUMBER. ALL WORK MUST BE INSPECTED THE CITY OF DUNWOODY CODES AND INSPECTION DEPARTMENT.
- 4) ALL ON-SITE PVC PIPE SHALL HAVE CLASS B BEDDING.
- 5) ALL NON-METALLIC CONDUIT, PIPE, AND CHASE PIPE SHALL BE WRAPPED WITH THE APPROPRIATE LOCATION WIRE AND TAPE.
- 6) NOTIFY WATER AND SEWER INSPECTOR PRIOR TO START OF CONSTRUCTION.
- 7) THE CONTRACTOR SHALL PROVIDE A COMPLETE SET OF AS-BUILT DRAWINGS INCLUDING ALL RIM ELEVATIONS, INVERT ELEVATIONS, PIPE SIZES, AND PIPE MATERIAL FOR ALL PUBLIC MAINS TO THE ENGINEER AS SOON AS INSTALLATION IS COMPLETE.
- 8) OWNER SHALL BE RESPONSIBLE FOR ANY REPAIR OR REPLACEMENT OF ANY IMPROVEMENTS WITHIN THE SANITARY SEWER, WATER, DRAINAGE EASEMENT(S) DUE TO MAINTENANCE OF SEWER, WATER, STORM DRAIN OF THE CITY OF DUNWOODY.
- 9) PVC WATER LINES LESS THAN 3" SHALL BE ASTM D 2241, SDR 21 WITH INTEGRALLY MOLDED BELL ENDS, ASTM D 2672. PVC WATER LINES 3" AND LARGER SHALL BE AWWA C900, RATED DR 18 (CLASS 150) WITH INTEGRALLY MOLDED BELL ENDS, ASTM D3139. DIP WATER LINES SHALL BE AWWA C151, THICKNESS CLASS 50.
- 10) PVC SANITARY SEWER LINES SHALL BE ASTM D 3034, RATED SDR 35 WITH INTEGRALLY MOLDED BELL ENDS, ASTM D 3034, TABLE 2, WITH FACTORY SUPPLIED ELASTOMERIC GASKETS AND LUBRICANT. DIP SANITARY SEWER LINES SHALL BE ASTM A746, CLASS 50 WITH AWWA C111, RUBBER GASKET JOINT DEVICES.
- 11) CALL (404) 687-4075 FOR BACKFLOW INSPECTION PRIOR TO INSTALLATION.

NOTE: CITY OF DUNWOODY WILL INSTALL RP2s AT ALL WATER METER LOCATIONS ON THE BROOK RUN PARK PROPERTY.

LEGEND	
	EXISTING FENCE LINE
	PROPERTY LINE
	EXISTING UNDERGROUND POWER LINE
	EXISTING UNDERGROUND TELEPHONE LINE
	EXISTING GAS LINE
	EXISTING SANITARY SEWER LINE
	EXISTING WATER LINE
	EXISTING STORM LINE
	PROPOSED UNDERGROUND POWER LINE
	PROPOSED SANITARY SEWER LINE
	PROPOSED WATER LINE
	PROPOSED FIRE WATER LINE
	PROPOSED STORM LINE

CONTRACTOR TO CONTACT UTILITIES PROTECTION CENTER PRIOR TO ANY EXCAVATION



Know what's below
Call before you dig

ENGINEER:

FORESITE
group

Foresite Group, Inc.
5185 Peachtree Pkwy.
Suite 240
Norcross, GA 30092

o | 770.368.1399
f | 770.368.1944
w | www.fg-inc.net

DEVELOPER:

CONTACT:

PROJECT:

BROOK RUN DOG PARK
CONSTRUCTION DOCUMENTS

4770 N. PEACHTREE RD.
DUNWOODY, DEKALB COUNTY, GEORGIA 30338
L.L. 354, 18TH DISTRICT

SEAL:



REVISIONS DATE

ADDENDUM #1 11/20/2013

PROJECT MANAGER: JWM

DRAWING BY: NJP

JURISDICTION: DUNWOODY, GA

DATE: 10 AUGUST 2013

SCALE: 1" = 30'

TITLE:

UTILITIES PLAN

SHEET NUMBER:

C-3

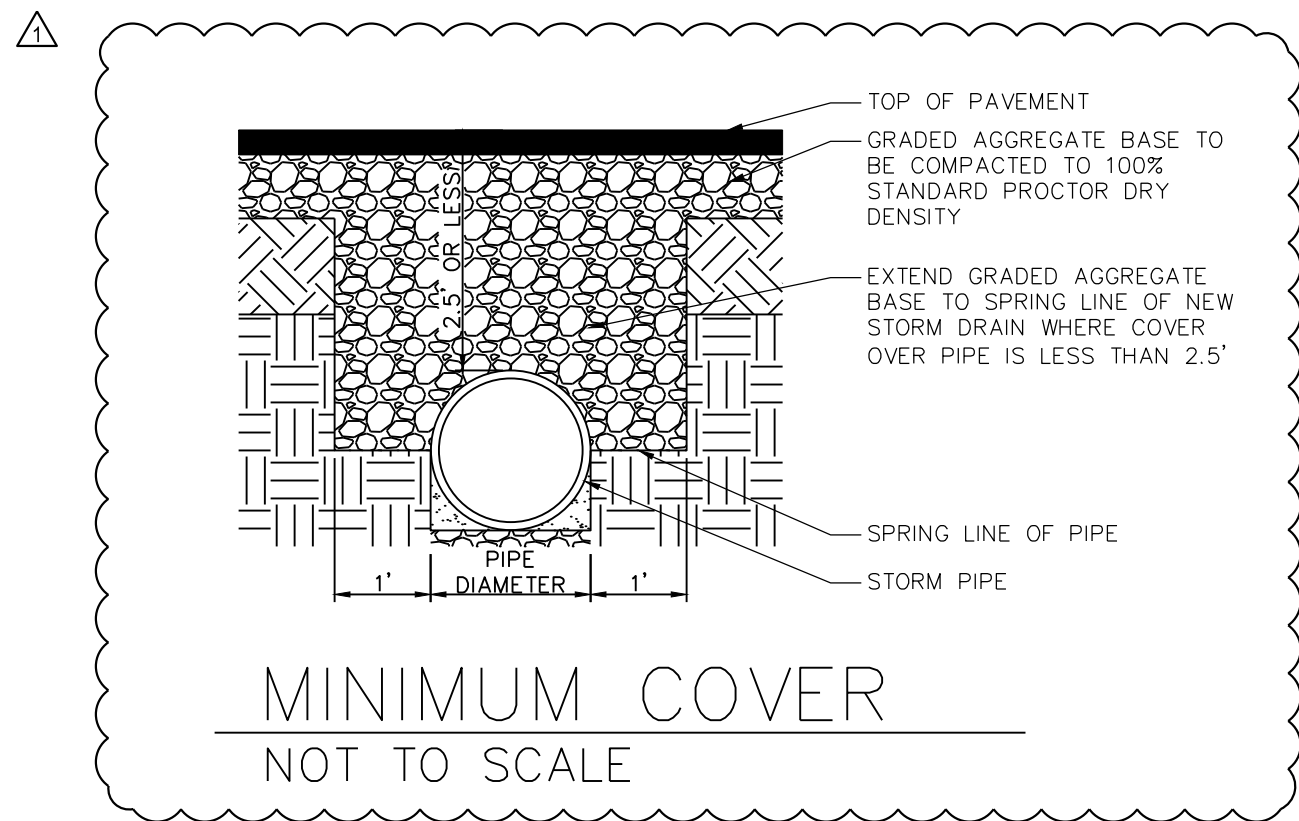
COMMENTS:

JOB/FILE NUMBER: 487.001

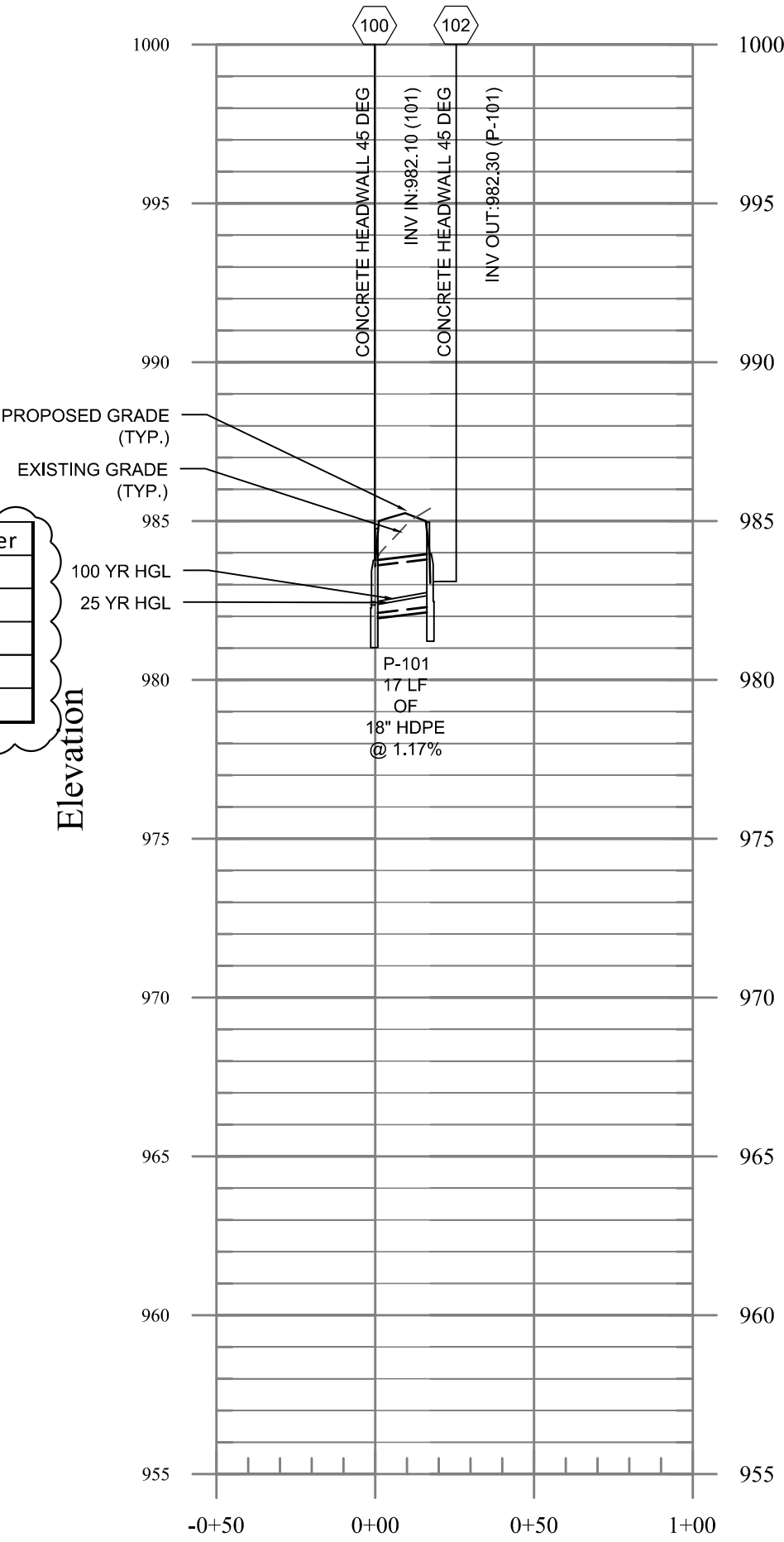
- GENERAL NOTES:**
- 1.) PIPE LENGTHS REFLECT THE PIPES LINEAR LENGTH AND ARE SHOWN FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE.
- 2.) EXISTING UTILITY DEPTHS ARE APPROXIMATED BASED ON 4 FT COVER FROM THE EXISTING GROUND SURFACE. PROPOSED UTILITY DEPTHS ARE BASED ON 4 FT OF COVER FROM THE PROPOSED GROUND SURFACE. CONTRACTOR SHALL FIELD VERIFY ALL UTILITY DEPTHS AT CROSSING AND CONTACT ENGINEER IMMEDIATELY IF CONFLICTS ARE ENCOUNTERED.

PIPE CHART

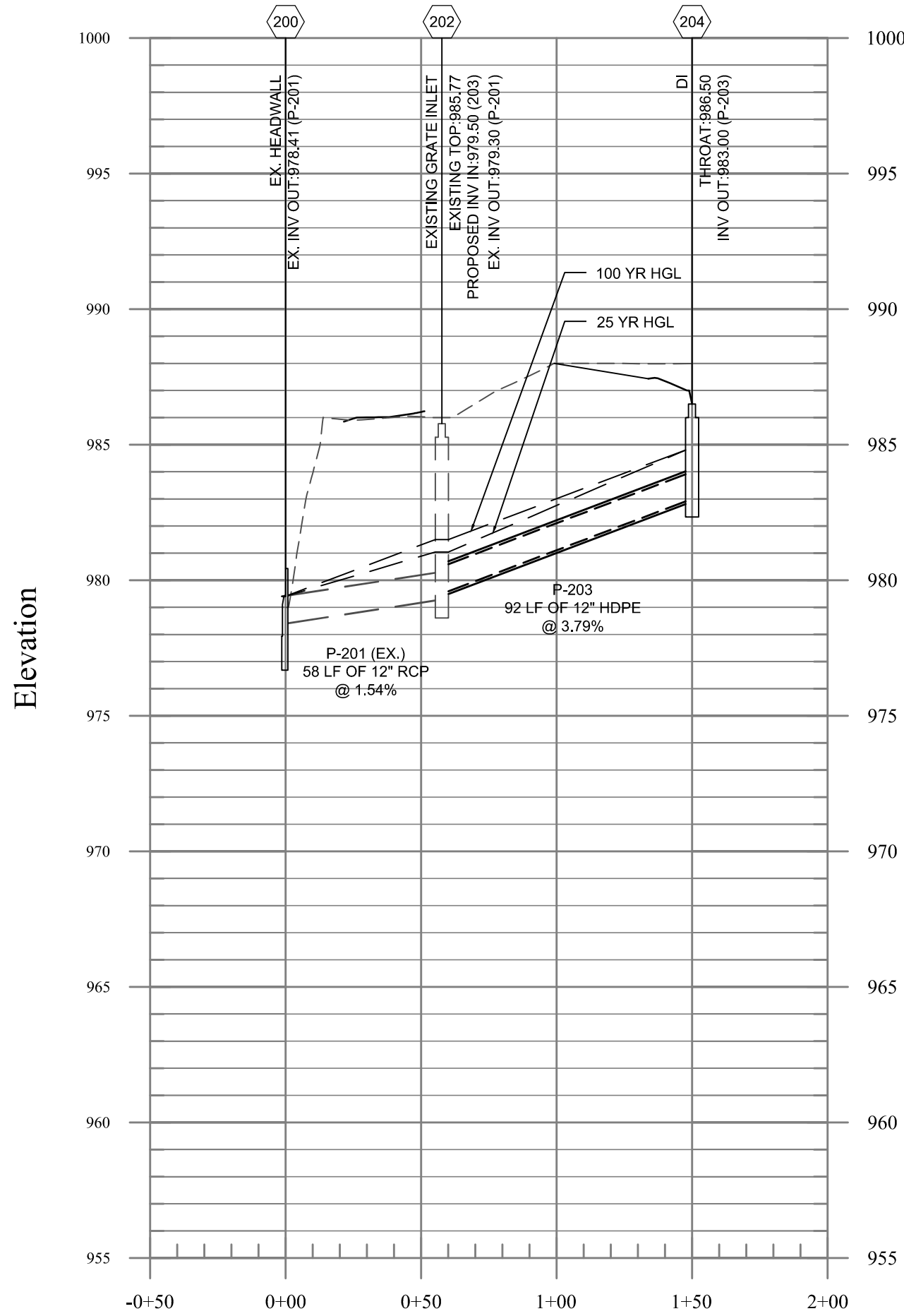
ID	Upstream ID	Downstream ID	Size (in)	Slope (%)	Length (ft)	Material	Velocity (ft/s)	Flow (cfs)	Capacity (cfs)	Contributing Area (ac.)	Curve Number
P-101	102	100	18	1.17	17	HDPE	2.91	0.61	7.42	0.10	61
P-201 (EX)	202	200	12	1.54	58	RCP	6.36	4.99	4.77	0.12	61
P-203	204	202	12	3.79	92	HDPE	9.19	6.79	9.03	1.49	63
P-301 (EX)	302	300	12	1.93	31	RCP	4.55	1.26	4.03	0.21	61



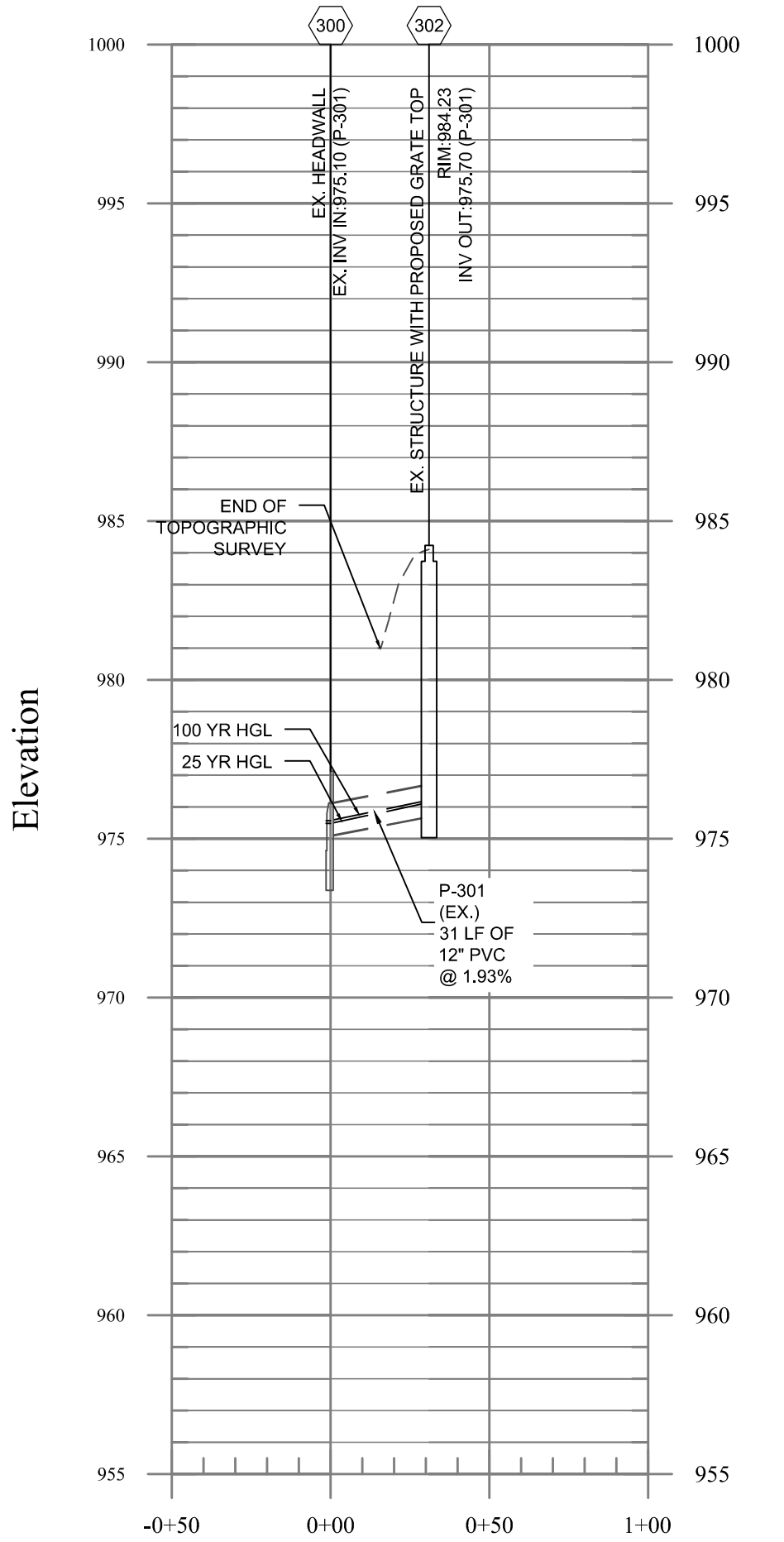
STR. 100 - STR. 102
1" = 50' H, 1"=5' V



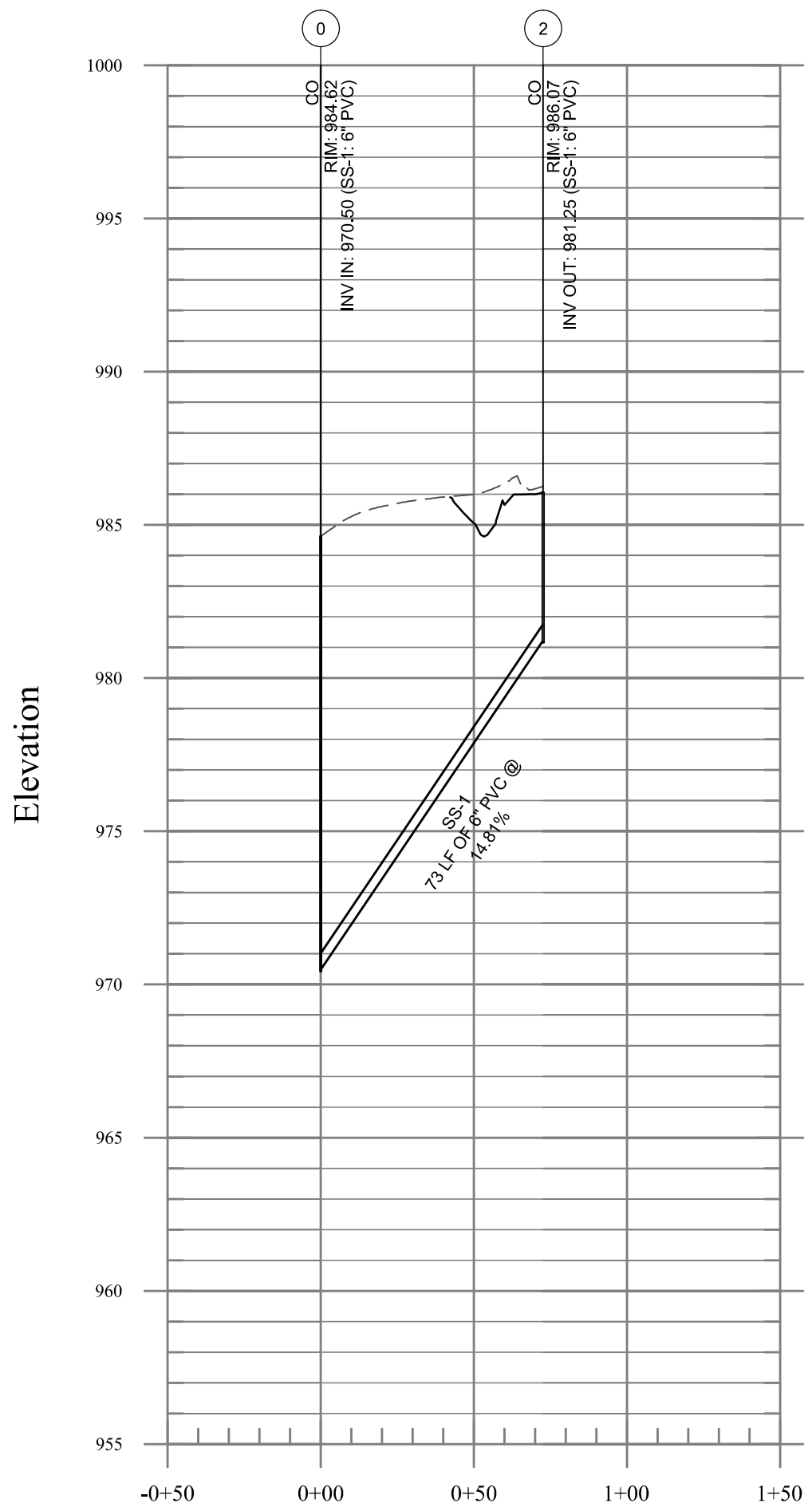
STR. 200 - STR. 204
1" = 50' H, 1"=5' V



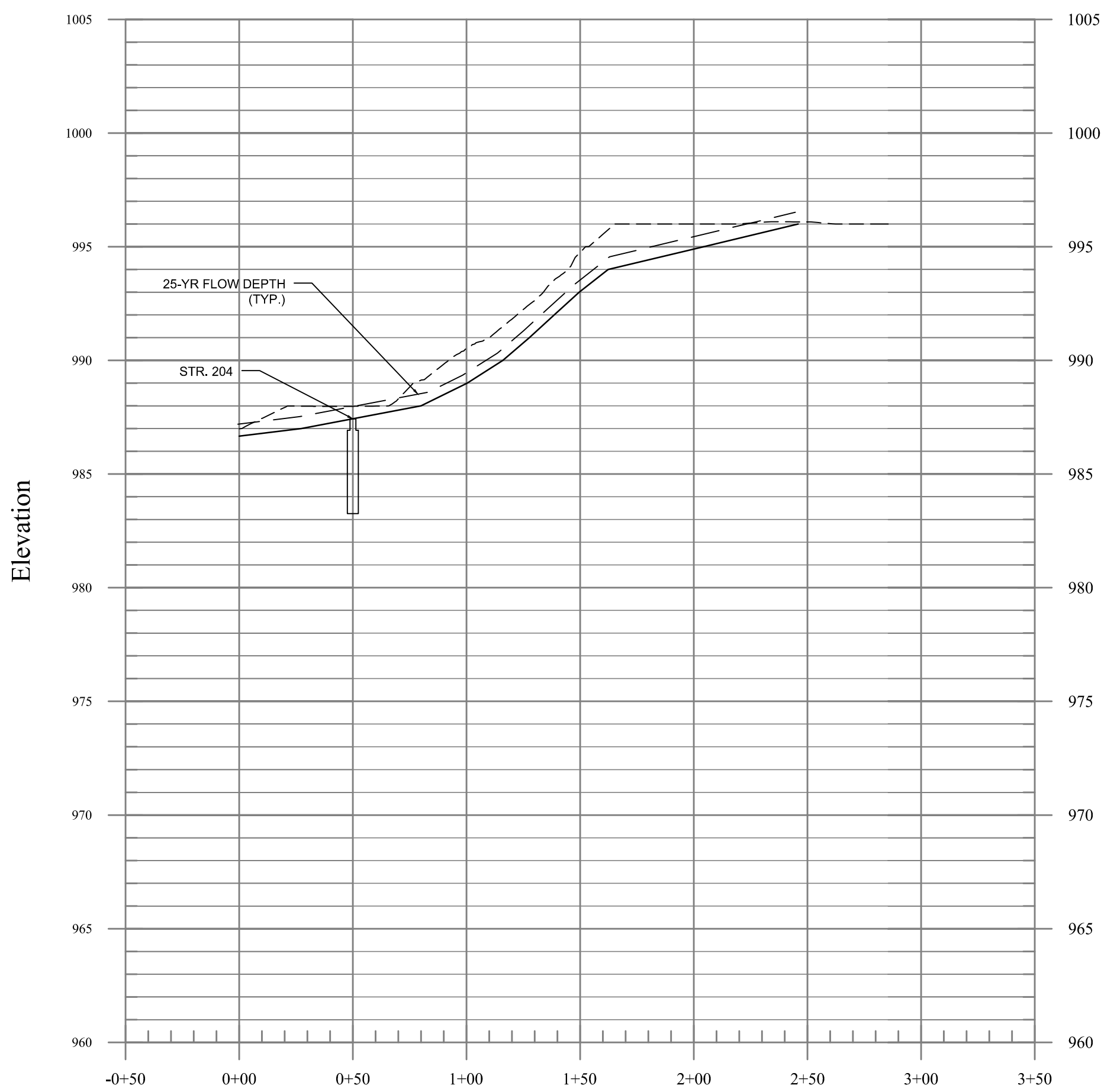
STR. 300 - STR. 302
1" = 50' H, 1"=5' V



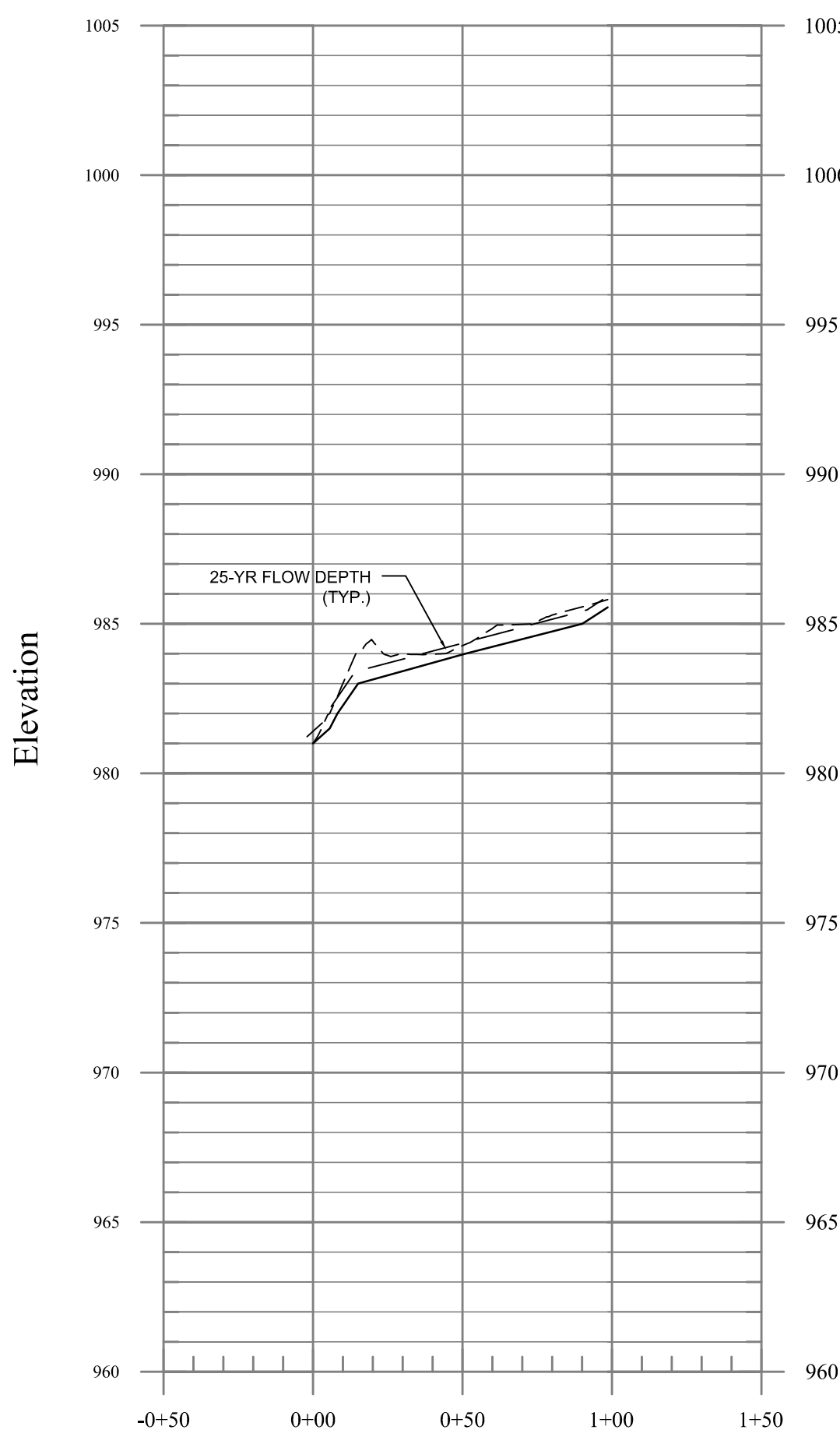
SS-0 - SS-2
1" = 50' H, 1"=5' V



SWALE #1
1" = 50' H, 1"=5' V



SWALE #2
1" = 50' H, 1"=5' V



ENGINEER:

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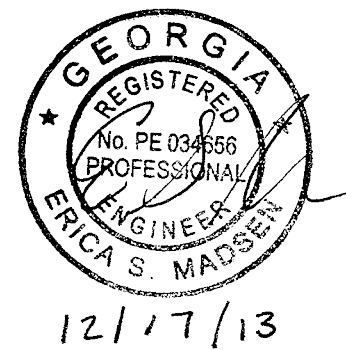
DEVELOPER:

CONTACT:

PROJECT:

BROOK RUN DOG PARK
CONSTRUCTION DOCUMENTS
4770 N. PEACHTREE RD.
DUNWOODY, DEKALB COUNTY, GEORGIA 30338
L.L. 354, 18TH DISTRICT

SEAL:



REVISIONS DATE
ADDENDUM #1 11/20/2013

PROJECT MANAGER: JWW
DRAWING BY: NJP
JURISDICTION: DUNWOODY, GA
DATE: 10 AUGUST 2013
SCALE: AS SHOWN
TITLE:

STORM DRAINAGE PROFILES

SHEET NUMBER:

C-3.1

COMMENTS:

JOB/FILE NUMBER: 487.001

SOIL TYPE	
<div style="border: 1px solid black; border-radius: 50%; width: 40px; height: 40px; margin: 0 auto; display: flex; align-items: center; justify-content: center;"> <div style="border: 1px solid black; border-radius: 50%; width: 20px; height: 20px; margin: 0 auto; display: flex; align-items: center; justify-content: center;">A</div> <div style="border: 1px solid black; border-radius: 50%; width: 20px; height: 20px; margin: 0 auto; display: flex; align-items: center; justify-content: center;">U</div> <div style="border: 1px solid black; border-radius: 50%; width: 20px; height: 20px; margin: 0 auto; display: flex; align-items: center; justify-content: center;">C</div> </div>	APPLYING-URBAN LAND COMPLEX, 2 TO 10 PERCENT SLOPES
<div style="border: 1px solid black; border-radius: 50%; width: 40px; height: 40px; margin: 0 auto; display: flex; align-items: center; justify-content: center;"> <div style="border: 1px solid black; border-radius: 50%; width: 20px; height: 20px; margin: 0 auto; display: flex; align-items: center; justify-content: center;">C</div> <div style="border: 1px solid black; border-radius: 50%; width: 20px; height: 20px; margin: 0 auto; display: flex; align-items: center; justify-content: center;">U</div> <div style="border: 1px solid black; border-radius: 50%; width: 20px; height: 20px; margin: 0 auto; display: flex; align-items: center; justify-content: center;">C</div> </div>	CECIL-URBAN LAND COMPLEX, 2 TO 10 PERCENT SLOPES
<div style="border: 1px solid black; border-radius: 50%; width: 40px; height: 40px; margin: 0 auto; display: flex; align-items: center; justify-content: center;"> <div style="border: 1px solid black; border-radius: 50%; width: 20px; height: 20px; margin: 0 auto; display: flex; align-items: center; justify-content: center;">P</div> <div style="border: 1px solid black; border-radius: 50%; width: 20px; height: 20px; margin: 0 auto; display: flex; align-items: center; justify-content: center;">U</div> <div style="border: 1px solid black; border-radius: 50%; width: 20px; height: 20px; margin: 0 auto; display: flex; align-items: center; justify-content: center;">E</div> </div>	PACOLET-URBAN LAND COMPLEX, 10 TO 25 PERCENT SLOPES

SITE DATA	
L.L. 354, 18TH DISTRICT	
TOTAL SITE AREA =	1.618 AC.
TOTAL DISTURBED AREA =	1.618 AC.
TOTAL STORAGE REQUIRED =	108.42 CY
STORAGE PROVIDED:	
(2) S&C STORAGE PROVIDED =	71 CY.
S&I-C STORAGE PROVIDED =	340 CY.
TOTAL STORAGE PROVIDED =	411 CY.

THE INTENT OF THE PROPOSED DISTURBANCE IS THE RELOCATION OF A DOG PARK CURRENTLY LOCATED WEST OF THIS SITE. MINIMAL GRADING IS PROPOSED TO HELP WITH DRAINAGE AND TO PROVIDE ADA ACCESS FROM GEORGIA WAY TO THE PROPOSED RESTROOM FACILITY. THE MAJORITY OF THE PROPOSED DISTURBANCE IS THE REMOVAL OF EXISTING PAVED/CONCRETE AREAS. THE INTENT OF THIS DESIGN IS TO MAINTAIN AND PROTECT AS MANY OF THE EXISTING TREES AS POSSIBLE.

BASIN 6
DRAINAGE AREA = 0.08 AC.
DISTURBED AREA = 0.08 AC.
STORAGE REQUIRED = 5.5 CY.
STORAGE PROVIDED BY 546 LF OF SILT FENCE = 91 CY

BASIN 1
DRAINAGE AREA = 0.79 AC.
DISTURBED AREA = 0.52 AC.
STORAGE REQUIRED = 35 CY.
STORAGE PROVIDED BY 30'x5'x3.5'
EXCAVATED INLET SEDIMENT TRAP #1 = 56 CY

A diagram illustrating a coastal wetland system. On the left, a river flows into a large area labeled 'WETLANDS'. The wetlands are depicted with wavy lines representing water channels and marshy areas. To the right of the wetlands is a body of water labeled 'BAY'.

CONTRACTOR SHALL NOTIFY ENGINEER UPON START OF CONSTRUCTION IN ORDER FOR ENGINEER TO SCHEDULE THE INITIAL 7 DAY EROSION CONTROL INSPECTION.

TURBIDITY MONITORING STATION #3 AS REQUIRED BY THE NPDES NOI PERMIT APPLICATION. THE CONTRACTOR IS RESPONSIBLE FOR THE PURCHASE, OPERATION, AND MAINTENANCE OF THE MONITOR EQUIPMENT. THE CONTRACTOR IS ALSO RESPONSIBLE FOR PERFORMING AND SUBMITTING THE MONTHLY REPORTS AND PEAK STORM REPORTS AS REQUESTED BY THE NPDES NOI.

EXCAVATED INLET SEDIMENT TRAP #2 ———
20'x13'
STORAGE = 15 CY
(SEE SHEET C-8.1 FOR DETAILS)

DOUBLE ROW TYPE C SILT FENCE ———
(TYP.)

NOTE:
SEE C-8 EROSION CONTROL DETAILS FOR
FERTILIZER REQUIREMENTS FOR TURF AND SEED
INSTALLATION AND MAINTENANCE INSTRUCTIONS



THE PROPOSED DEVELOPMENT IS LOCATED WITHIN ONE LINEAR MILE OF THE IMPAIRED STREAM SEGMENT OF LITTLE NANCY CREEK WITHIN THE SAME WATERSHED. THEREFORE, THE FOLLOWING ADDITIONAL BMP'S ARE REQUIRED TO PREVENT FURTHER WATER QUALITY DEGRADATION.

- 1) PLACE A LARGE SIGN (MIN 4'x8") ON THE SITE VISIBLY FROM THE ROADWAY IDENTIFYING THE CONSTRUCTION SITE, THE PERMITTEE(S), THE CONTACT PERSON(S)(S), AND THE PHONE NUMBER(S).
- 2) USE ANIONIC POLYACRYLAMIDE (PAM) AND/OR MULCH TO STABILIZE AREAS LEFT DISTURBED FOR MORE THAN 7 CALENDAR DAYS IN ACCORDANCE WITH PART III.D.1. OF THE NPDES PERMITS.
- 3) CONDUCT TURBIDITY AND TOTAL SUSPENDED SOLIDS (TSS) SAMPLING AFTER EVERY MAJOR EVENT OF 0.5 INCH OR GREATER, WITHIN ANY 24 HOUR PERIOD, RECOGNIZING THE EXCEPTIONS SPECIFIED IN PART IV.D.6.g. OF THE NPDES PERMIT.
- 4) LIMIT THE TOTAL PLANNED SITE DISTURBANCE TO LESS THAN 50% IMPERVIOUS SURFACES (EXCLUDING ANY STATE MANDATED BUFFER AREAS FROM SUCH CALCULATIONS).

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Norcross, GA 30092

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f | 770.368.1944
w | www.fg-inc.net

CONTACT:

PROJECT:

SEAL:



REVISIONS	DATE
ADDENDUM #1	11/20/2013
2 EROSION COMMENTS	12/17/2013

PROJECT MANAGER: JWA

DRAWING BY: NJF

JURISDICTION: DUNWOODY, GA

DATE: 10 AUGUST 2013

SCALE: 1" = 30'

TITLE:

INITIAL EROSION & SEDIMENT CONTROL PLAN

SHEET NUMBER

COMMENTS

JOB/FILE NUMBER:

487,001



Know what's below
Call before you dig

SIGNATURE OF ENGINEER
1575
CERTIFICATION #

DATE
04/22/2014
EXPIRATION

EROSION AND SEDIMENT CONTROL LEGEND			
CODE	PRACTICE	DETAIL	MAP SYMBOL
Cd	CHECKDAM		✓
Co	CONSTRUCTION ENTRANCE		Co
Fr	FILTER RING		Fr
Sd1	SEDIMENT BARRIER		TYPE 'C' SILT FENCE
Sd2-F	INLET SEDIMENT TRAP FILTER FABRIC WITH SUPPORTING FRAME		□
Sd2-P	INLET SEDIMENT TRAP CURB INLET PROTECTION		■
St	STORM DRAIN OUTLET PROTECTION		St
Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)		Ds1
Ds2	DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)		Ds2
Ds3	DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION)		Ds3
Ds4	SODDING		Ds4
Du	DUST CONTROL ON DISTURBED AREAS		Du
	LIMITS OF DISTURBANCE	N/A	LOC
	SOIL DELINEATION LINE	N/A	---
	TREE PROTECTION FENCE	N/A	—

** FOR RIPRAP TABLES, SEE SHEET SERIES C-8
SEDIMENT STORAGE AREAS SHALL BE REMOVED AS FINAL STABILIZATION OF EACH AREA IS OBTAINED

NOTE:
SEE C-8 EROSION CONTROL DETAILS FOR FERTILIZER REQUIREMENTS FOR TURF AND SEED INSTALLATION AND MAINTENANCE INSTRUCTIONS

TOTAL DISTURBED AREA	1.618 AC.
PROPOSED IMPERVIOUS AREA	0.2 AC.
% IMPERVIOUS	12.30%
IMPERVIOUS SURFACE AREA CALCULATIONS PER BMP h OF IMPAIRED STREAM REQUIREMENTS	

10'x10' CONCRETE WASHOUT AREA. WASHOUT OF THE CONCRETE DRUM AT THE CONSTRUCTION SITE IS PROHIBITED.

BASIN 5
DRAINAGE AREA = 0.59 AC.
DISTURBED AREA = 0.37 AC.

BASIN 8
DRAINAGE AREA = 0.87 AC.
DISTURBED AREA = 0.54 AC.

SWALE TO BE LINED WITH CH-V. REFER TO C-8.3 FOR Ds3 SPECS (TYP.)

TREE PROTECTION FENCE (TYP.)

STONE CHECKDAM (TYP.)

BASIN 6
DRAINAGE AREA = 0.08 AC.
DISTURBED AREA = 0.08 AC.

COMPOST FILTER SOCK AT FINAL CONNECTION

BASIN 1
DRAINAGE AREA = 0.13 AC.
DISTURBED AREA = 0.10 AC.

TURBIDITY MONITORING STATION #2 AS REQUIRED BY THE NPDES NOI PERMIT APPLICATION. THE CONTRACTOR IS RESPONSIBLE FOR THE PURCHASE, OPERATION, AND MAINTENANCE OF THE MONITOR EQUIPMENT. CONTRACTOR IS ALSO RESPONSIBLE FOR PERFORMING AND SUBMITTING THE MONTHLY REPORTS AND PEAK STORM REPORTS AS REQUESTED BY THE NPDES NOI.

WETLANDS
DOUBLE ROW TYPE C SILT FENCE (TYP.)

TURBIDITY MONITORING STATION #3 AS REQUIRED BY THE NPDES NOI PERMIT APPLICATION. THE CONTRACTOR IS RESPONSIBLE FOR THE PURCHASE, OPERATION, AND MAINTENANCE OF THE MONITOR EQUIPMENT. CONTRACTOR IS ALSO RESPONSIBLE FOR PERFORMING AND SUBMITTING THE MONTHLY REPORTS AND PEAK STORM REPORTS AS REQUESTED BY THE NPDES NOI.

ANIONIC POLYACRYLAMIDE TO BE PLACED ON AREAS LEFT DISTURBED FOR MORE THAN 7 CALENDAR DAYS PER IMPAIRED STREAM BMP REQUIREMENTS (TYP.)

BASIN 2
DRAINAGE AREA = 0.21 AC.
DISTURBED AREA = 0.09 AC.

LIMITS OF CONSTRUCTION (TYP.)

BASIN 4
DRAINAGE AREA = 0.26 AC.
DISTURBED AREA = 0.19 AC.

BASIN 7
DRAINAGE AREA = 0.06 AC.
DISTURBED AREA = 0.06 AC.

BASIN 3
DRAINAGE AREA = 0.32 AC.
DISTURBED AREA = 0.22 AC.

TURBIDITY MONITORING STATION #1 AS REQUIRED BY THE NPDES NOI PERMIT APPLICATION. THE CONTRACTOR IS RESPONSIBLE FOR THE PURCHASE, OPERATION, AND MAINTENANCE OF THE MONITOR EQUIPMENT. CONTRACTOR IS ALSO RESPONSIBLE FOR PERFORMING AND SUBMITTING THE MONTHLY REPORTS AND PEAK STORM REPORTS AS REQUESTED BY THE NPDES NOI.

IMPAIRED STREAM-ADDITIONAL BMP REQUIREMENTS:

THE PROPOSED DEVELOPMENT IS LOCATED WITHIN ONE LINEAR MILE OF THE IMPAIRED STREAM SEGMENT OF LITTLE NANCY CREEK WITHIN THE SAME WATERSHED. THEREFORE, THE FOLLOWING ADDITIONAL BMP'S ARE REQUIRED TO PREVENT FURTHER WATER QUALITY DEGRADATION.

- 1) PLACE A LARGE SIGN (MIN 4'x8') ON THE SITE VISIBLE FROM THE ROADWAY IDENTIFYING THE CONSTRUCTION SITE, THE PERMITEE(S), THE CONTACT PERSON(S), AND THE PHONE NUMBER(S).
- 2) USE ANIONIC POLYACRYLAMIDE (PAM) AND/OR MULCH TO STABILIZE AREAS LEFT DISTURBED FOR MORE THAN 7 CALENDAR DAYS IN ACCORDANCE WITH PART III.D.1 OF THE NPDES PERMITS.
- 3) CONDUCT TURBIDITY AND TOTAL SUSPENDED SOLIDS (TSS) SAMPLING AFTER EVERY RAIN EVENT OF 0.5 INCH OR GREATER. WITHIN ANY 24 HOUR PERIOD, RECOGNIZING THE EXCEPTIONS SPECIFIED IN PART IV.D.6.d. OF THE NPDES PERMIT.
- 4) LIMIT THE TOTAL PLANNED SITE DISTURBANCE TO LESS THAN 50% IMPERVIOUS SURFACES (EXCLUDING ANY STATE MANDATED BUFFER AREAS FROM SUCH CALCULATIONS.)

ENGINEER:

FORESITE
group

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w | www.fg-inc.net

DEVELOPER:

CONTACT:

BROOK RUN DOG PARK
CONSTRUCTION DOCUMENTS

4770 N. PEACHTREE RD.
DUNWOODY, DEKALB COUNTY, GEORGIA 30338
LL 354, 18TH DISTRICT

PROJECT:

SEAL:

GEORGIA REGISTERED PROFESSIONAL ENGINEER
No. PE 004468
EVICA S. MADSEN
12/17/13

REVISIONS	DATE
ADDENDUM #1	11/20/2013
EROSION COMMENTS	12/17/2013

PROJECT MANAGER: JWM

DRAWING BY: NJP

JURISDICTION: DUNWOODY, GA

DATE: 10 AUGUST 2013

SCALE: 1" = 30'

TITLE:

FINAL EROSION & SEDIMENT CONTROL PLAN

SHEET NUMBER:

C-4.2

COMMENTS:

JOB/FILE NUMBER: 487.001

811
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SIGNATURE OF ENGINEER
1575
CERTIFICATION #

DATE
04/22/2014
EXPIRATION

EROSION CONTROL NOTES:

1) IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN QUALIFIED PROFESSIONAL ADVICE WHEN QUESTIONS ARISE CONCERNING DESIGN AND EFFECTIVENESS OF EROSION CONTROL DEVICES. 24 HR CONTACT: JASON WECKERLY (770) 368-1399. CONTRACTOR SHALL INFORM ENGINEER WHEN CONSTRUCTION BEGINS.

2) THE INSTALLATION OF EROSION CONTROL MEASURES AND PRACTICES SHALL TAKE PLACE PRIOR TO OR CONCURRENT WITH ALL LAND DISTURBING ACTIVITIES THROUGHOUT THE ENTIRE PROJECT.

3) ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.

4) EROSION AND SEDIMENT CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.

5) THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, ALL LAND DISTURBING ACTIVITIES THROUGHOUT THE ENTIRE PROJECT.

6) SEDIMENT STORAGE INDICATORS MUST BE INSTALLED IN SEDIMENT STORAGE STRUCTURES, INDICATING THE 1/3 FULL VOLUME.

7) THE CONTRACTOR SHALL REMOVE ACCUMULATED SILT WHEN THE ACCUMULATED SILT IS ONE-THIRD (1/3) FULL FOR ALL EROSION & SEDIMENT CONTROL STRUCTURES.

8) MAINTENANCE OF ALL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES, WHETHER TEMPORARY OR PERMANENT, SHALL BE AT ALL TIMES THE RESPONSIBILITY OF THE PROPERTY OWNER.

9) A 25-FOOT UNDISTURBED BUFFER IS TO BE MAINTAINED ADJACENT TO ALL STREAMS.

10) DETENTION POND, DETENTION OUTLET STRUCTURES AND TEMPORARY SEDIMENT POND FEATURES ARE TO BE CONSTRUCTED AND FULLY OPERATIONAL PRIOR TO ANY OTHER CONSTRUCTION.

11) ALL FILL SLOPES SHALL HAVE SILT FENCE PLACED AT THE SLOPE'S TOE.

12) CONCENTRATED FLOW AREAS AND ALL SLOPES STEEPER THAN 2.5:1 WITH A HEIGHT OF TEN FEET OR GREATER SHALL BE STABILIZED WITH THE APPROPRIATE EROSION CONTROL MATTING.

13) THE PROFESSIONAL WHO SEALS THIS PLAN CERTIFIES UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HEREIN BY THE PROFESSIONAL OR THE PROFESSIONAL'S AUTHORIZED AGENT, UNDER THE PROFESSIONAL'S DIRECT SUPERVISION.

14) EROSION CONTROL DEVICES THAT ARE INSTALLED AS DIRECTED BY THE LAND DEVELOPMENT INSPECTOR BUT NOT SHOWN ON THE APPROVED PLAN AND WHICH ALSO SUBSEQUENTLY FAIL, ARE THE RESPONSIBILITY OF THE CONTRACTOR.

15) ALL TEMPORARY AND PERMANENT SEEDING MUST BE PERFORMED AT THE APPROPRIATE SEASON. ADDITIONAL PLANTINGS WILL BE NECESSARY IF A SUFFICIENT STAND OF GRASS FAILS TO GROW.

16) TOPSOIL SHALL BE STOCKPILED AND USED TO DRESS FINAL GRADES.

17) NO PORTION OF THE SUBJECT PROPERTY LIES WITHIN A 100 YEAR FLOOD HAZARD AREA PER FIRM MAP NUMBER 13089C0016J DATED 05/18/2013.

18) THE CONTRACTOR WILL CLEAN OUT ACCUMULATED SILT IN THE STORM DRAINAGE PIPES AT END OF CONSTRUCTION WHEN DISTURBED AREAS HAVE BEEN STABILIZED.

19) ALL LOTS WITH WET LAND OR WITHIN A DAM ZONE SHALL BE DENOTED WITH AN ASTERISK.

20) APPROVAL OF THESE PLANS DOES NOT CONSTITUTE APPROVAL BY THE CITY OF DUNWOODY OR EPD OF ANY LAND DISTURBING ACTIVITIES WITHIN WETLAND AREAS AND/OR WHICH MAY IMPACT ENDANGERED SPECIES. IT IS THE RESPONSIBILITY OF THE PROPERTY OWNER TO CONTACT THE APPROPRIATE REGULARITY AGENCY FOR APPROVAL OF ANY DISTURBANCE WHICH MAY HAVE THIS EFFECT.

21) ALL CONSTRUCTION SHALL COMPLY WITH THE SPECIFICATIONS AND PROCEDURES DETAILED IN THE CURRENT DEVELOPMENT REGULATIONS OF THE CITY OF DUNWOODY AND THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GA.

22) TWO ROWS OF GA. D.O.T. TYPE C SILT FENCE SHALL BE INSTALLED ADJACENT TO STATE WATERS AND WILL PROTECT STATE WATERS FROM ANY LAND DISTURBING ACTIVITIES.

23) ALL SLOPES AND AREAS DISTURBED DURING CONSTRUCTION SHALL BE GRADED SMOOTH AND 4" OF TOPSOIL APPLIED. THE AREA SHALL THEN BE SEEDED, FERTILIZED, MULCHED, WATERED AND MAINTAINED UNTIL A HEALTHY STAND OF PERMANENT VEGETATION HAS BEEN ESTABLISHED FOR ALL DISTURBED AREAS. SEEDS FOR GRASSSED AREAS USE THE FOLLOWING MIXTURES.

24) ALL SILT BARRIERS MUST BE PLACED AS ACCESS IS OBTAINED DURING CLEARING. NO GRADING SHALL TAKE PLACE UNTIL SILT BARRIER INSTALLATION IS COMPLETE.

25) SILT BARRIERS SHALL BE PLACED AS SHOWN AND/OR AS DIRECTED BY THE PROJECT ENGINEER AND/OR COUNTY INSPECTORS.

26) CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING EROSION CONTROL MEASURES UNTIL CONSTRUCTION IS COMPLETE AND PERMANENT VEGETATION HAS BEEN ESTABLISHED.

27) ALL DISTURBED AREAS SHALL BE GRASSSED AS SOON AS POSSIBLE AS PER THE SEEDING SCHEDULES AND RATES.

28) ALL OPEN DRAINAGE SWALES MUST BE GRASSSED AND RIP-RAP PLACED AS REQUIRED TO PREVENT EROSION.

29) MAXIMUM SLOPES ON CUT OR FILL SECTIONS SHALL NOT EXCEED 2 TO 1.

30) ALL FILL AREAS AND DITCH WORK ON THIS SITE SHALL BE COMPACTED TO A MINIMUM 95% STANDARD PROCTOR.

31) ALL DRAINAGE STRUCTURES SHALL HAVE RING AND COVER ACCESS.

32) LENGTH OF STORM WATER OUTFALL STRUCTURE RIP-RAP SHALL BE AT LEAST 6 TIMES THE DIAMETER OF THE STORM DRAIN PIPE.

33) WHERE APPLICABLE, EACH INDIVIDUAL LOT BUILDER SHALL BE RESPONSIBLE FOR INSTALLING AND MAINTAINING EROSION CONTROL MEASURES ON THEIR OWN LOT.

34) SECONDARY PERMITTEES SHALL BE RESPONSIBLE FOR RETURNING AREAS DISTURBED DURING THEIR ACTIVITIES TO THE CONDITION PRIOR TO THEIR DISTURBANCE (TO INCLUDE SEEDING, STRAW, OR OTHER PRE-EXISTING BMP CONTROLS APPLIED).

35) EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED IF DEEMED NECESSARY BY ON-SITE INSPECTIONS.

36) INSPECTIONS ARE TO BE MADE AFTER EACH RAINFALL EVENT AND SILT ACCUMULATIONS SHALL BE REMOVED FROM ANY SEDIMENT BASINS AND PLACED AT A STABLE LOCATION WHERE IT IS TO BE SEEDED AND MULCHED.

37) SEE EROSION CONTROL DETAIL SHEET FOR EROSION CONTROL DETAILS & SEEDING RATES AND SCHEDULES.

38) RED LINE COMMENTS ON WORKING SETS OF PLANS SHOULD BE MAINTAINED ON SITE FOR ANY CHANGES MADE TO EROSION CONTROL PLAN. COMMENTS SHOULD INCLUDE DATE AND JUSTIFICATION FOR CHANGES.

39) PRIOR TO ANY OTHER CONSTRUCTION, A STABILIZED CONSTRUCTION ENTRANCE SHALL BE INSTALLED AT EACH POINT OF ENTRY TO OR EXIT FROM THE SITE. ANY MUD, DIRT, OR ROCK TRACKED FROM THE SITE WILL BE CLEANED AS NECESSARY. DUMP TRUCKS HAULING MATERIAL FROM THE CONSTRUCTION SITE SHALL BE COVERED WITH A TARPULIN.

40) PRIOR TO COMMENCING LAND DISTURBING ACTIVITY, THE LIMITS OF DISTURBANCE SHALL BE CLEARLY AND ACCURATELY MARKED WITH STAKES, RIBBON OR OTHER APPROPRIATE MEANS. THE LOCATION AND EXTENT OF ALL AUTHORIZED LAND DISTURBANCE SHALL BE DEMARCATED FOR THE DURATION OF THE CONSTRUCTION ACTIVITY. NO LAND DISTURBANCE SHALL OCCUR OUTSIDE THE APPROVED LIMITS INDICATED ON THE APPROVED PLANS.

41) IMMEDIATELY AFTER THE ESTABLISHMENT OF CONSTRUCTION ENTRANCE/EXITS, ALL PERIMETER EROSION CONTROL SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION.

CERTIFICATION STATEMENT:

"I CERTIFY THAT THE PERMITTEE'S EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN PROVIDES FOR AN APPROPRIATE AND COMPREHENSIVE SYSTEM OF BEST MANAGEMENT PRACTICES REQUIRED BY THE GEORGIA WATER QUALITY CONTROL ACT AND THE DOCUMENT "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" (MANUAL) PUBLISHED BY THE STATE SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND-DISTURBING ACTIVITY WAS PERMITTED, PROVIDES FOR THE SAMPLING OF THE RECEIVING WATER(S) OR THE SAMPLING OF THE STORM WATER OUTFALLS AND THAT THE DESIGNED SYSTEM OF THE BEST MANAGEMENT PRACTICES AND SAMPLING METHODS IS EXPECTED TO MEET THE REQUIREMENTS CONTAINED IN THE GENERAL NPDES PERMIT NO. GAR 10001. I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HEREIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY SUPERVISION."

SIGNATURE OF ENGINEER DATE
1575 04/22/2014
CERTIFICATION # EXPIRATION

GENERAL NOTES:

THIS PLAN INCLUDES, AS A MINIMUM, BEST MANAGEMENT PRACTICES, INCLUDING SOUND CONSERVATION AND ENGINEERING PRACTICES TO PREVENT EROSION AND POLLUTION AND MINIMIZE EROSION AND POLLUTION. THE PLAN SHALL BE NO LESS STRINGENT THAN THOSE PRACTICES CONTAINED IN THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" (MANUAL) PUBLISHED BY THE STATE SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND DISTURBING ACTIVITY WAS PERMITTED, AS WELL AS THE FOLLOWING:

1) STRIPPING OF VEGETATION, CUT AND FILL OPERATIONS, AND OTHER DEVELOPMENT ACTIVITIES WILL BE CONDUCTED IN A MANNER SO AS TO MINIMIZE EROSION.

2) DEVELOPMENT PLANS CONFORM TO TOPOGRAPHY AND SOIL TYPE, SO AS TO CREATE THE LOWEST PRACTICABLE EROSION POTENTIAL.

3) THE DISTURBED AREA AND THE DURATION OF EXPOSURE TO EROSION ELEMENTS WILL BE KEPT TO A PRACTICAL MINIMUM. WHENEVER FEASIBLE, NATURAL VEGETATION WILL BE RETAINED, PROTECTED, AND SUPPLEMENTED.

4) DISTURBED SOIL WILL BE STABILIZED AS QUICKLY AS PRACTICABLE.

5) TEMPORARY VEGETATION OR MULCHING WILL BE EMPLOYED TO PROTECT EXPOSED CRITICAL AREAS DURING DEVELOPMENT AT A MINIMUM OF EVERY 7 DAYS IF THE SOIL HAS BEEN LEFT UNDISTURBED.

6) PERMANENT VEGETATION AND STRUCTURAL EROSION CONTROL MEASURES WILL BE INSTALLED AS SOON AS PRACTICABLE.

7) TO THE EXTENT NECESSARY, SEDIMENT IN RUN-OFF WATER WILL BE TRAPPED BY THE USE OF DEBRIS BASINS, SILT FENCE, SILT TRAPS, OR SIMILAR MEASURES UNTIL THE DISTURBED AREA IS STABILIZED.

8) ADEQUATE PROVISIONS SHALL BE PROVIDED TO MINIMIZE DAMAGE FROM SURFACE WATER TO THE CUT FACE OF EXCAVATIONS OR THE SLOPING SURFACES OF FILLS.

9) CUTS AND FILLS WILL NOT ENDANGER ADJOINING PROPERTY.

10) FILLS WILL NOT ENROACH UPON NATURAL WATER COURSES OR CONSTRUCTED CHANNELS IN A MANNER SO AS TO ADVERSELY AFFECT OTHER PROPERTY OWNERS.

11) GRADING EQUIPMENT WILL CROSS FLOWING STREAMS BY THE MEANS OF BRIDGES OR CULVERTS, EXCEPT WHEN SUCH METHODS ARE NOT FEASIBLE, PROVIDED IN ANY CASE THAT SUCH CROSSINGS ARE KEPT TO A MINIMUM.

12) PROVISIONS ARE PROVIDED FOR TREATMENT OR CONTROL OF ANY SOURCE OF SEDIMENTS AND ADEQUATE SEDIMENTATION CONTROL FACILITIES TO RETAIN SEDIMENTS ON SITE OR PRECLUDE SEDIMENTATION OF ADJACENT WATERS BEYOND THE LEVELS GAR 10001; OR SPECIFIED IN THE GENERAL NPDES PERMIT NUMBER.

13) NO CONSTRUCTION ACTIVITIES SHALL BE CONDUCTED WITHIN A 25 FOOT BUFFER ALONG THE BANKS OF ALL STATE WATERS, AS MEASURED HORIZONTALLY FROM THE POINT WHERE VEGETATION HAS BEEN WRESTED BY NORMAL STREAM FLOW OR WAVE ACTION, EXCEPT WHERE THE DIRECTOR OF EPD HAS DETERMINED TO ALLOW A VARIANCE THAT IS AT LEAST AS PROTECTIVE OF NATURAL RESOURCES AND THE ENVIRONMENT IN ACCORDANCE WITH THE PROVISIONS OF O.C.G.A. 12-2-6, OR HERE A DRAINAGE STRUCTURE OR A ROADWAY STRUCTURE MUST BE CONSTRUCTED, PROVIDED THAT ADEQUATE EROSION CONTROL MEASURES ARE INCORPORATED IN THE PROJECT PLANS AND SPECIFICATIONS AND ARE IMPLEMENTED.

14) NO CONSTRUCTION ACTIVITIES SHALL BE CONDUCTED WITHIN A 50 FOOT BUFFER, AS MEASURED HORIZONTALLY FROM THE POINT WHERE VEGETATION HAS BEEN WRESTED BY NORMAL STREAM FLOW OR WAVE ACTION, ALONG THE BANKS OF ANY STATE WATERS CLASSIFIED AS "TROUT STREAMS" EXCEPT WHEN APPROVAL IS GRANTED BY THE DIRECTOR OF EPD FOR ALTERNATE VEGETATION WITH A DENSITY OF 70% OR GREATER, OR LANDSCAPED ACCORDING TO THE PLAN (UNIFORM, STRUCTURE MUST BE CONSTRUCTED, PROVIDED, HOWEVER, THAT SMALL SPRINGS AND STREAMS CLASSIFIED AS "TROUT STREAMS" WHICH DISCHARGE AN AVERAGE ANNUAL FLOW OF 25 GALLONS PER MINUTE OR LESS SHALL HAVE A 25 FOOT BUFFER OR THEY MAY BE PIPED, AT THE DISCRETION OF THE PERMITTEE, PURSUANT TO THE TERMS OF A RULE PROVIDING FOR A GENERAL VARIANCE. PROVISIONS REGARDING THE LOCATION AND EXTENT OF SUCH TREATMENT SHALL BE PROVIDED FOR THE LAND ISSUING AUTHORITY OF THE LOCATION AND EXTENT OF THE PIPING AND PRESCRIBED METHODOLOGY FOR MINIMIZING THE IMPACT OF SUCH PIPING SHORT OF THE DOWNSTREAM PERMITTEE'S PROPERTY, AND THE PERMITTEE MUST COMPLY WITH THE BUFFER REQUIREMENT FOR ANY ADJACENT TROUT STREAMS.

15) FOR COMMON DRAINAGE LOCATIONS A TEMPORARY (OR PERMANENT) SEDIMENT BASIN PROVIDING AT LEAST 67 CUBIC YARDS OF STORAGE PER ACRE DRAINED, OR EQUIVALENT CONTROL MEASURES, SHALL BE PROVIDED UNTIL FINAL STABILIZATION OF THE SITE. THE 67 CUBIC YARDS OF STORAGE AREA PER ACRE DRAINED DOES NOT APPLY TO FLOWS FROM OFF-SITE AREAS AND FLOWS FROM ON-SITE AREAS THAT ARE EITHER UNDISTURBED OR HAVE UNDERGONE FINAL STABILIZATION WHERE SUCH FLOWS ARE DIVERTED AROUND BOTH THE DISTURBED AREA AND THE SEDIMENT BASIN. FOR DRAINAGE LOCATIONS WHERE A TEMPORARY SEDIMENT BASIN PROVIDING AT LEAST 67 CUBIC YARDS OF STORAGE PER ACRE DRAINED, OR EQUIVALENT CONTROLS IS NOT ATTAINABLE, SEDIMENT TRAPS, SILT FENCES, OR EQUIVALENT SEDIMENT CONTROLS ARE REQUIRED FOR ALL SIDE SLOPE AND DOWN SLOPE BOUNDARIES OF THE CONSTRUCTION AREA. WHEN THE SEDIMENT FILLS TO A VOLUME AT MOST OF 22 CUBIC YARDS PER ACRE FOR EACH DRAINAGE AREA, THE SEDIMENT SHALL BE REMOVED TO RESTORE THE ORIGINAL DESIGN VOLUME. THIS SEDIMENT MUST BE PROPERLY DISPOSED. SEDIMENT BASINS MAY NOT BE APPROPRIATE AT SOME CONSTRUCTION PROJECTS.

16) NO SOLID MATERIALS, INCLUDING BUILDING MATERIALS, SHALL BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.

17) OFF SITE VEHICLE TRACKING OF DIRT, SOILS, AND SEDIMENTS AND THE GENERATION OF DUST SHALL BE MINIMIZED OR ELIMINATED TO THE MAXIMUM EXTENT PRACTICAL.

18) ALL LOTS AND DEVELOPMENT AREAS SHALL MAINTAIN COMPLIANCE WITH APPLICABLE STATE AND/OR LOCAL WASTE DISPOSAL, SANITARY SEWER OR SEPTIC SYSTEM REGULATIONS.

19) A COPY OF THE APPROVED LAND DISTURBANCE PLAN AND PERMIT SHALL BE PRESENT ON THE SITE WHENEVER LAND DISTURBANCE ACTIVITY IS IN PROGRESS.

20) THERE SHALL BE NO ON-SITE STORAGE OF PETROLEUM, MOBILE PETROLEUM TRUCKS SHALL BE USED TO FUEL CONSTRUCTION EQUIPMENT. CONSTRUCTION EQUIPMENT SHALL BE CONSTRUCTED TO PRECLUDE THE INSTALLATION OF ANY LEGAL ACTION OR RELIEVE THE PERMITTEE FROM ANY RESPONSIBILITIES, LIABILITIES, OR PENALTIES TO WHICH THE PERMITTEE IS OR MAY BE SUBJECT UNDER THE GEORGIA HAZARDOUS WASTE MANAGEMENT ACT, O.C.G.A. 12-8-60, ET SEQ. OR UNDER CHAPTER 14 OF TITLE 12 OF THE OFFICIAL CODE OF GEORGIA ANNOTATED. NOR IS THE OPERATOR RELIEVED FROM ANY RESPONSIBILITIES, LIABILITIES OR PENALTIES TO WHICH THE PERMITTEE IS OR MAY BE SUBJECT UNDER SECTION 311 OF THE CLEAN WATER ACT OR SECTION 106 OF COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY ACT.

21) IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE A "QUALIFIED PROFESSIONAL" INSPECT AND REPORT ALL DEFICIENCIES OF ALL EROSION CONTROL MEASURES AT A MINIMUM OF EVERY 7 CALENDAR DAYS AND WITHIN 24 HOURS OF EVERY RAIN EVENT.

22) AMENDMENTS/REVISIONS TO THE ES&PC PLAN WHICH HAVE A SIGNIFICANT EFFECT ON BMP'S WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL.

23) THE DESIGN PROFESSIONAL OR DESIGNEE IS TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERMITTER CONTROL BMP'S WITHIN 7 DAYS AFTER INSTALLATION.

PERMITTEE REQUIREMENTS FOR INSPECTION:

1) EACH DAY WHEN ANY TYPE OF CONSTRUCTION ACTIVITY HAS TAKEN PLACE AT A PRIMARY PERMITTEE'S SITE, CERTIFIED PERSONNEL PROVIDED BY THE PRIMARY PERMITTEE SHALL INSPECT: (A) ALL AREAS AT THE PRIMARY PERMITTEE'S SITE WHERE PETROLEUM PRODUCTS ARE STORED, USED, OR HANDLED FOR SPILLS AND LEAKS FROM VEHICLES AND EQUIPMENT; (B) ALL LOT LOCATIONS AT THE PRIMARY PERMITTEE'S SITE WHERE VEHICLES ENTER OR EXIT THE SITE FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING.

2) MEASURE RAINFALL ONCE EACH 24 HOURS EXCEPT ANY NON-WORKING SATURDAY, NON-WORKING SUNDAY, AND NON-WORKING FEDERAL HOLIDAY UNTIL A NOTICE OF TERMINATION IS SUBMITTED. MEASUREMENT OF RAINFALL MAY BE SUSPENDED IF ALL AREAS OF THE SITE HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION.

3) CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT THE FOLLOWING AT LEAST ONCE EVERY FOURTEEN (14) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.5 INCHES RAINFALL OR GREATER OR LESSER SUCH STORMS END AFTER 5:00 PM ON ANY FRIDAY OR ON ANY NON-WORKING SATURDAY, NON-WORKING SUNDAY OR ANY NON-WORKING FEDERAL HOLIDAY IN WHICH CASE THE INSPECTION SHALL BE COMPLETED BY THE END OF THE NEXT BUSINESS DAY AND/OR WORKING DAY, WHICHEVER OCCURS FIRST: (A) DISTURBED AREAS OF THE PRIMARY PERMITTEE'S CONSTRUCTION SITE; (B) AREAS USED BY THE PRIMARY PERMITTEE FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION; AND (C) STRUCTURAL CONTROL MEASURES, EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN APPLICABLE TO THE PRIMARY PERMITTEE'S SITE SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S). FOR AREAS OF A SITE THAT HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION, THE PERMITTEE MUST COMPLY WITH PART IV.D.4.A.(3). THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.

4) CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT AT LEAST ONCE PER MONTH DURING THE TERM OF THIS PERMIT (I.E. UNTIL A NOTICE OF TERMINATION IS RECEIVED BY EPD) THE AREAS OF THE SITE THAT HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION. THESE AREAS SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM AND THE RECEIVING WATER(S). EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S).

5) BASED ON THE RESULTS OF EACH INSPECTION, THE SITE DESCRIPTION AND THE POLLUTION PREVENTION AND CONTROL MEASURES IDENTIFIED IN THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, THE PLAN SHALL BE REVISED AS APPROPRIATE NOT LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION. IMPLEMENTATION OF SUCH CHANGES SHALL BE MADE AS SOON AS PRACTICAL BUT IN NO CASE LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION.

6) A REPORT OF EACH INSPECTION THAT INCLUDES THE NAME(S) OF PERSONNEL MAKING EACH INSPECTION, THE DATE(S) OF EACH INSPECTION, CONSTRUCTION PHASE (I.E. INITIAL, INTERMEDIATE, OR FINAL), MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, AND ACTIONS TAKEN IN ACCORDANCE WITH PART IV.D.4.A.(5) OF THE PERMIT SHALL BE MADE AND RETAINED AT THE SITE OR BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION UNTIL THE ENTIRE SITE OR THAT PORTION OF A CONSTRUCTION PROJECT THAT HAS BEEN PHASED HAS UNDERGONE FINAL STABILIZATION AND A NOTICE OF TERMINATION IS SUBMITTED TO EPD. SUCH REPORTS SHALL BE READILY AVAILABLE BY THE END OF THE SECOND BUSINESS DAY AND/OR WORKING DAY AND SHALL IDENTIFY ALL INCIDENTS OF BEST MANAGEMENT PRACTICES THAT HAVE NOT BEEN PROPERLY INSTALLED AND/OR MAINTAINED AS DESCRIBED IN THE PLAN. WHERE THE REPORT DOES NOT IDENTIFY ANY INCIDENTS, THE INSPECTION REPORT SHALL CONTAIN A STATEMENT THAT THE BEST MANAGEMENT PRACTICES IDENTIFIED WITH THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, THE REPORT SHALL BE SIGNED IN ACCORDANCE WITH PART V.G.2 OF THIS PERMIT.

SAMPLING REQUIREMENTS:

THIS PERMIT REQUIRES THE MONITORING OF NEPHELOMETRIC TURBIDITY IN RECEIVING WATER(S) OR OUTFALLS IN ACCORDANCE WITH THIS PERMIT. THIS SHALL NOT APPLY TO ANY LAND DISTURBANCE ASSOCIATED WITH THE CONSTRUCTION OF SINGLE-FAMILY HOMES WHICH ARE NOT PART OF A SUBDIVISION OR PLANNED COMMON DEVELOPMENT UNLESS FIVE (5) ACRES OR MORE WILL BE DISTURBED.

SAMPLING REQUIREMENTS (CONTINUED):

a. SEE PLAN SHEETS FOR GUIDELINES ON SAMPLING LOCATIONS, DESCRIPTIONS, AND MAXIMUM ALLOWABLE NTU'S.

b. SAMPLE TYPE. ALL SAMPLING SHALL BE COLLECTED BY "GRAB SAMPLES" AND THE ANALYSIS OF THESE SAMPLES MUST BE CONDUCTED IN ACCORDANCE WITH METHODOLOGY AND TEST PROCEDURES ESTABLISHED BY 40 CFR PART 136 (INCLUDING OTHER TEST PROCEDURES HAVE BEEN APPROVED); THE GUIDANCE DOCUMENT TITLED "NPDES STORMWATER SAMPLING GUIDANCE DOCUMENT, EPA 833-B-92-001" AND GUIDANCE DOCUMENTS THAT MAY BE PREPARED BY THE EPD.

1. SAMPLE CONTAINERS SHOULD BE LABELED PRIOR TO COLLECTING THE SAMPLES.
2. SAMPLES SHOULD BE WELL MIXED BEFORE TRANSFERRING TO A SECONDARY CONTAINER.
3. LARGE MOUTH, WELL-CLEANED AND RINSED GLASSES OR PLASTIC CUPS SHOULD BE USED FOR COLLECTING SAMPLES. THE JARS SHOULD BE CLEANED THOROUGHLY TO AVOID CONTAMINATION.
4. MANUAL, AUTOMATIC OR RISING STAGE SAMPLING MAY BE UTILIZED. SAMPLES REQUIRED BY THIS PERMIT SHOULD BE ANALYZED IMMEDIATELY, BUT IN NO CASE LATER THAN 48 HOURS AFTER COLLECTION. HOWEVER, SAMPLES FROM AUTOMATIC SAMPLERS MUST BE COLLECTED NO LATER THAN THE NEXT BUSINESS DAY AFTER THEIR ACCUMULATION. UNLESS FLOW THROUGH AUTOMATED ANALYSIS IS UTILIZED, DILUTION OF SAMPLES IS NOT REQUIRED. SAMPLES MAY BE ANALYZED DIRECTLY WITH A PROPERLY CALIBRATED TURBIDIMETER. SAMPLES ARE NOT REQUIRED TO BE COOLED.
5. SAMPLING AND ANALYSIS OF THE RECEIVING WATER(S) OR OUTFALLS BEYOND THE MINIMUM FREQUENCY STATED IN THIS PERMIT MUST BE REPORTED TO EPD AS SPECIFIED IN PART IV.E.

c. SAMPLING POINTS

1. FOR CONSTRUCTION ACTIVITIES THE PRIMARY PERMITTEE MUST SAMPLE ALL RECEIVING WATER(S), OR ALL OUTFALLS), OR A COMBINATION OF RECEIVING WATER(S) AND OUTFALLS). SAMPLES TAKEN FOR THE PURPOSE OF COMPLIANCE WITH THIS PERMIT SHALL BE REPRESENTATIVE OF THE MONITORED ACTIVITY AND REPRESENTATIVE OF THE WATER QUALITY OF THE RECEIVING WATER(S) AND/OR THE STORM WATER OUTFALLS USING THE FOLLOWING MINIMUM GUIDELINES:

1.a. THE UPSTREAM SAMPLE FOR EACH RECEIVING WATER(S) MUST BE TAKEN IMMEDIATELY UPSTREAM OF THE CONFLUENCE OF THE FIRST STORM WATER DISCHARGE FROM THE PERMITTED ACTIVITY (I.E. THE DISCHARGE FARTHEST UPSTREAM AT THE SITE) BUT DOWNSTREAM OF ANY OTHER STORM WATER DISCHARGES NOT ASSOCIATED WITH THE PERMITTED ACTIVITY. WHERE APPROPRIATE, SEVERAL UPSTREAM SAMPLES FROM ACROSS THE RECEIVING WATER OR A ROADWAY STRUCTURE MUST BE COLLECTED. THE ARITHMETIC AVERAGE OF THE TURBIDITY OF THESE SAMPLES USED FOR THE UPSTREAM TURBIDITY VALUE.
1.b. THE DOWNSTREAM SAMPLE FOR EACH RECEIVING WATER(S) MUST BE TAKEN DOWNSTREAM OF THE CONFLUENCE OF THE LAST STORM WATER DISCHARGE FROM THE PERMITTED ACTIVITY (I.E. THE DISCHARGE FARTHEST DOWNSTREAM AT THE SITE). BUT UPSTREAM OF ANY OTHER STORMWATER DISCHARGE NOT ASSOCIATED WITH THE PERMITTED ACTIVITY. WHERE APPROPRIATE, SEVERAL DOWNSTREAM SAMPLES FROM ACROSS THE RECEIVING WATER(S) MAY NEED TO BE TAKEN AND THE ARITHMETIC AVERAGE OF THE TURBIDITY OF THESE SAMPLES USED FOR THE DOWNSTREAM TURBIDITY VALUE.
1.c. IDEALLY THE SAMPLES SHOULD BE TAKEN FROM THE HORIZONTAL AND VERTICAL CENTER OF THE RECEIVING WATER(S) OR STORM WATER OUTFALL CHANNELS).
1.d. CARE SHOULD BE TAKEN TO AVOID STIRRING THE BOTTOM SEDIMENTS IN THE RECEIVING WATERS OR IN THE STORMWATER CHANNEL.
1.e. THE SAMPLING CONTAINER SHOULD BE HELD SO THE OPENING FACES UPSTREAM.
1.f. THE SAMPLES SHOULD BE KEPT FREE FROM FLOATING DEBRIS.
1.g. PERMITTEES DO NOT HAVE TO SAMPLE SHEETFLOW THAT FLOWS INTO UNDISTURBED NATURAL AREAS STABILIZED BY THE PROJECT. FOR PURPOSES OF THIS SECTION, STABILIZED SHALL MEAN, FOR UNPAVED AREAS AND NOT COVERED BY PERMANENT STRUCTURES, 100% OF THE SOIL SURFACE IS UNIFORMLY COVERED IN PERMANENT VEGETATION WITH A DENSITY OF 70% OR GREATER, OR LANDSCAPED ACCORDING TO THE PLAN (UNIFORM, COVERED WITH LANDSCAPING MATERIALS IN PLANNED LANDSCAPED AREAS), OR EQUIVALENT PERMANENT STABILIZATION MEASURES AS DEFINED IN THE MANUAL (EXCLUDING A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION). FOR INFRASTRUCTURE PROJECTS AND CONSTRUCTION PROJECTS ON LAND USED FOR AGRICULTURAL OR SILVICULTURAL PURPOSES, FINAL STABILIZATION MAY BE ACCOMPLISHED BY STABILIZING THE DISTURBED LAND FOR ITS AGRICULTURAL OR SILVICULTURAL USE.
1.h. ALL SAMPLING PURSUANT TO THIS PERMIT MUST BE DONE IN SUCH A WAY (INCLUDING GENERALLY ACCEPTED SAMPLING METHODS, LOCATIONS, FREQUENCY, AND FREQUENCY OF COLLECTION) AS TO REFLECT WHETHER THE STORMWATER RUNOFF FROM THE CONSTRUCTION SITE IS IN COMPLIANCE WITH THE STANDARD SET FORTH IN PARTS III.D.3 OR III.D.4 OF THE GENERAL PERMIT, WHICHEVER IS APPLICABLE.

d. SAMPLING FREQUENCY

1. THE PRIMARY PERMITTEE MUST SAMPLE IN ACCORDANCE WITH THE PLAN AT LEAST ONCE FOR EACH RAINFALL EVENT DESCRIBED BELOW. FOR A QUALIFYING EVENT, THE PERMITTEE SHALL SAMPLE AT THE BEGINNING OF ANY STORMWATER DISCHARGE TO A MONITORED RECEIVING WATER AND/OR FROM A MONITORED OUTFALL LOCATION WITHIN FORTY-FIVE (45) MINUTES OR AS SOON AS POSSIBLE.
2. HOWEVER, WHERE MANUAL AND AUTOMATIC SAMPLING ARE IMPOSSIBLE (AS DEFINED IN PERMIT GAR 10001), OR ARE BEYOND THE PERMITTEE'S CONTROL, THE PERMITTEE SHALL TAKE SAMPLES AS SOON AS POSSIBLE, BUT IN NO CASE MORE THAN TWELVE (12) HOURS AFTER THE END OF THE STORMWATER DISCHARGE.
3. SAMPLING BY THE PERMITTEE SHALL OCCUR FOR THE FOLLOWING EVENTS:
3.a. FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH WITH A STORMWATER DISCHARGE THAT OCCURS DURING NORMAL BUSINESS HOURS (MONDAY THRU FRIDAY, 8:00 AM TO 5:00 PM AND SATURDAY 8:00 AM TO 5:00 PM, EXCLUDING ALL NON-WORKING FEDERAL HOLIDAYS) WHEN CONSTRUCTION ACTIVITY IS BEING CONDUCTED BY THE PRIMARY PERMITTEE AFTER ALL CLEARING AND GRUBBING OPERATIONS HAVE BEEN COMPLETED, BUT PRIOR TO COMPLETION OF MASS GRADING OPERATIONS. IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE REPRESENTATIVE SAMPLING LOCATION.
3.b. IN ADDITION TO (A) ABOVE, FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH WITH A STORMWATER DISCHARGE THAT OCCURS DURING NORMAL BUSINESS HOURS, EITHER 90 DAYS AFTER THE FIRST SAMPLING EVENT OR AFTER ALL MASS GRADING OPERATIONS HAVE BEEN COMPLETED, BUT PRIOR TO SUBMITTAL OF A NOTICE OF TERMINATION, IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE REPRESENTATIVE SAMPLING LOCATION, WHICHEVER COMES FIRST.
3.c. AT THE TIME OF SAMPLING PERFORMED PURSUANT TO (a) AND (b) ABOVE, IF BMP'S IN ANY AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL ARE NOT OPERATING AS DESIGNED, INSTALLED AND MAINTAINED, CORRECTIVE ACTION SHALL BE DEFINED AND IMPLEMENTED WITHIN TWO (2) BUSINESS DAYS, AND TURBIDITY SAMPLES SHALL BE TAKEN FROM DISCHARGES FROM THAT AREA OF THE SITE FOR EACH SUBSEQUENT RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH DURING NORMAL BUSINESS HOURS UNTIL THE SELECTED TURBIDITY STANDARD IS ATTAINED, OR UNTIL POST-STORM EVENT INSPECTIONS DETERMINE THAT BMP'S ARE PROPERLY DESIGNED, INSTALLED AND MAINTAINED.
3.d. WHERE SAMPLING PURSUANT TO (a), (b), OR (c) ABOVE IS REQUIRED BUT NOT POSSIBLE (OR NOT REQUIRED BECAUSE THERE WAS NO DISCHARGE), THE PERMITTEE, IN ACCORDANCE WITH PART IV.D.4.B), MUST INCLUDE A WRITTEN JUSTIFICATION IN THE INSPECTION REPORT OF WHY SAMPLING WAS NOT PERFORMED. PROVIDING THIS JUSTIFICATION DOES NOT RELIEVE THE PERMITTEE OF ANY SUBSEQUENT SAMPLING OBLIGATIONS UNDER (a), (b), OR (c) ABOVE; AND
3.e. EXISTING CONSTRUCTION ACTIVITIES, I.E. THOSE THAT ARE OCCURRING ON OR BEFORE THE EFFECTIVE DATE OF THIS PERMIT, THAT HAVE MET THE SAMPLING REQUIRED BY (a) ABOVE SHALL SAMPLE IN ACCORDANCE WITH (b) THOSE EXISTING CONSTRUCTION ACTIVITIES THAT HAVE MET THE SAMPLING REQUIRED BY (b) ABOVE SHALL NOT BE REQUIRED TO CONDUCT ADDITIONAL SAMPLING OTHER THAN AS REQUIRED BY (c) ABOVE.

NOTE THAT THE PERMITTEE MAY CHOOSE TO MEET THE REQUIREMENTS OF (a) AND (b) ABOVE BY COLLECTING TURBIDITY SAMPLES FROM ANY RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH AND ALLOWS FOR MONITORING AT ANY TIME OF THE DAY OR WEEK.

RETENTION OF RECORDS:

1) THE PRIMARY PERMITTEE SHALL RETAIN THE FOLLOWING RECORDS AT THE CONSTRUCTION SITE OR THE RECORDS SHALL BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI.

A) A COPY OF ALL NOTICES OF INTENT SUBMITTED TO EPD;
B) A COPY OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN REQUIRED BY THIS PERMIT;
C) THE DESIGN PROFESSIONAL'S REPORT OF THE RESULTS OF THE INSPECTION CONDUCTED IN ACCORDANCE WITH PART IV.A.5. OF THIS PERMIT;
D) A COPY OF ALL SAMPLING INFORMATION, RESULTS, AND REPORTS REQUIRED BY THIS PERMIT;
E) A COPY OF ALL INSPECTION REPORTS GENERATED IN ACCORDANCE WITH PART IV.D.4.A. OF THIS PERMIT;
F) A COPY OF ALL VIOLATION SUMMARIES AND VIOLATION SUMMARY REPORTS GENERATED IN ACCORDANCE WITH PART II.D.2 OF THIS PERMIT; AND
G) DAILY RAINFALL INFORMATION COLLECTED IN ACCORDANCE WITH PART IV.D.4.A.2) OF THIS PERMIT.

2) COPIES OF ALL NOTICES OF INTENT, NOTICES OF TERMINATION, INSPECTION REPORTS, PLANS, SAMPLING REPORTS (INCLUDING CALIBRATION AND MAINTENANCE RECORDS OF ALL ORIGINAL STRIP CHART RECORDINGS FOR CONTINUOUS MONITORING INSTRUMENTATION) OR OTHER REPORTS REQUESTED BY THE EPD, EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, RECORDS OF INSPECTIONS, RECORDS OF SAMPLING, RECORDS OF VIOLATIONS, AND ALL OTHER RECORDS REQUIRED BY THIS PERMIT SHALL BE RETAINED BY THE PERMITTEE WHO EITHER PRODUCED OR USED IT FOR A PERIOD OF AT LEAST THREE YEARS FROM THE DATE THAT THE NOT IS SUBMITTED IN ACCORDANCE WITH PART VI OF THIS PERMIT. THESE RECORDS MUST BE MAINTAINED AT THE PERMITTEE'S PRIMARY PLACE OF BUSINESS OR AT A DESIGNATED ALTERNATE LOCATION ONCE THE CONSTRUCTION ACTIVITY HAS CEASED AT THE PERMITTED SITE. THIS PERIOD MAY BE EXTENDED BY REQUEST OF THE EPD AT ANY TIME UPON WRITTEN NOTIFICATION TO THE PERMITTEE.

REPORTING:

1) THE APPLICABLE PERMITTEES ARE REQUIRED TO SUBMIT THE SAMPLING RESULTS TO THE EPD AT THE ADDRESS SHOWN IN PART I.C OF THE GENERAL PERMIT GAR 10001 BY THE FIFTEENTH DAY OF THE MONTH FOLLOWING THE REPORTING PERIOD.

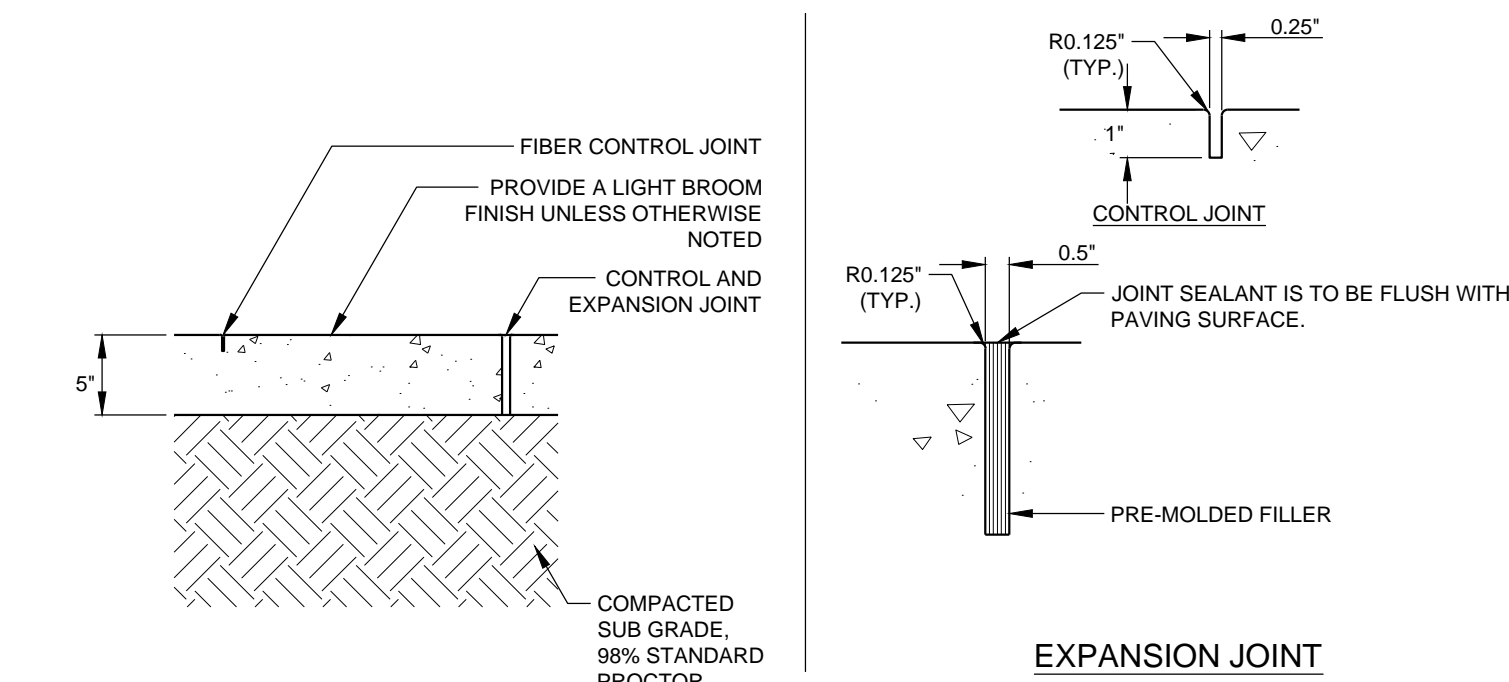
REPORTING PERIODS ARE MONTHS DURING WHICH SAMPLES ARE TAKEN IN ACCORDANCE WITH THIS PERMIT. SAMPLING RESULTS SHALL BE IN A CLEARLY LEGIBLE FORMAT. UPON WRITTEN NOTIFICATION, EPD MAY REQUIRE THE APPLICABLE PERMITTEE TO SUBMIT THE SAMPLING RESULTS ON A MORE FREQUENT BASIS. SAMPLING AND ANALYSIS OF ANY STORM WATER DISCHARGE(S) OR THE RECEIVING WATER(S) BEYOND THE MINIMUM FREQUENCY STATED IN THIS PERMIT MUST BE REPORTED IN A SIMILAR MANNER TO THE EPD. THE SAMPLING REPORTS MUST BE SIGNED IN ACCORDANCE WITH PART VI.G. SAMPLING REPORTS MUST BE SUBMITTED TO EPD UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI.

2) ALL SAMPLING REPORTS SHALL INCLUDE THE FOLLOWING INFORMATION:

A) THE RAINFALL AMOUNT, DATE, EXACT PLACE AND TIME OF SAMPLING OR MEASUREMENTS;
B) THE NAME(S) OF THE CERTIFIED PERSONNEL WHO PERFORMED THE SAMPLING AND MEASUREMENTS;
C) THE DATE(S) ANALYSES WERE PERFORMED;
D) THE TIME(S) ANALYSES WERE INITIATED;
E) THE NAME(S) OF THE CERTIFIED PERSONNEL WHO PERFORMED THE ANALYSES;
F) REFERENCES AND WRITTEN PROCEDURES, WHEN AVAILABLE, FOR THE ANALYTICAL TECHNIQUES OR METHODS USED;
G) THE RESULTS OF SUCH ANALYSES, INCLUDING THE BENCH SHEETS, INSTRUMENT READOUTS, COMPUTER DISKS OR TAPES, ETC., USED TO DETERMINE THESE RESULTS;
H) RESULTS WHICH EXCEED 1000 NTU SHALL BE REPORTED AS "EXCEEDS 1000 NTU"; AND
I) CERTIFICATION STATEMENT THAT SAMPLING WAS CONDUCTED AS PER THE PLAN.

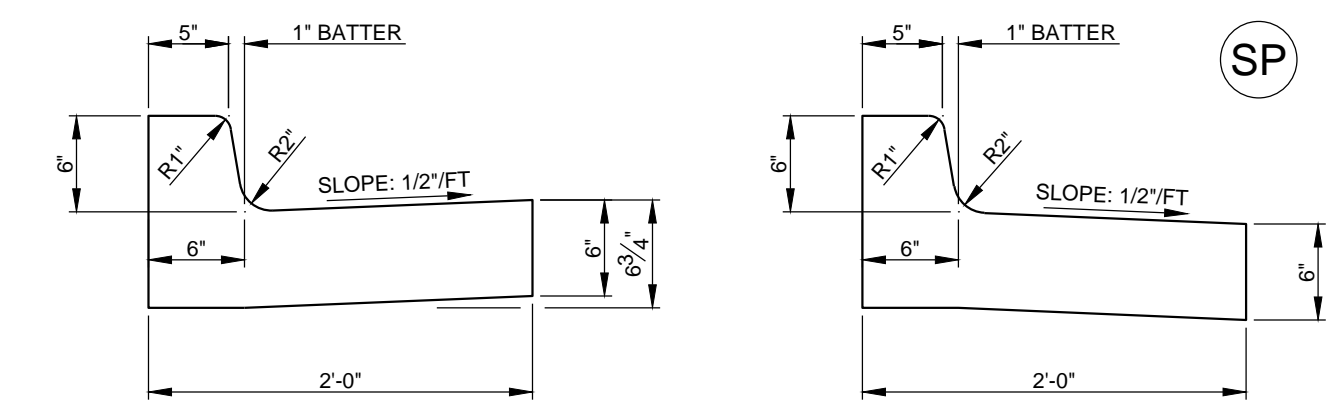
REPORTING (CONTINUED):

2) ALL WRITTEN CORRESPONDENCE REQUIRED BY THIS PERMIT SHALL BE SUBMITTED BY RETURN RECEIPT CERTIFIED MAIL (OR SIMILAR SERVICE) TO THE APPROPRIATE DISTRICT OFFICE OF THE EPD ACCORDING TO THE SCHEDULE IN APPENDIX A OF THIS PERMIT. THE PERMITTEE SHALL RETAIN A COPY OF THE PROOF OF SUBMITTAL AT THE CONSTRUCTION SITE OR THE PROOF OF SUBMITTAL SHALL BE READILY AVAILABLE AT A DESIGNATED LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI. IF AN ELECTRONIC SUBMITTAL IS PROVIDED BY EPD THEN THE WRITTEN CORRESPONDENCE MUST BE SUBMITTED ELECTRONICALLY; IF REQUIRED, A PAPER COPY MUST ALSO BE SUBMITTED BY RETURN RECEIPT CERTIFIED MAIL OR SIMILAR SERVICE.



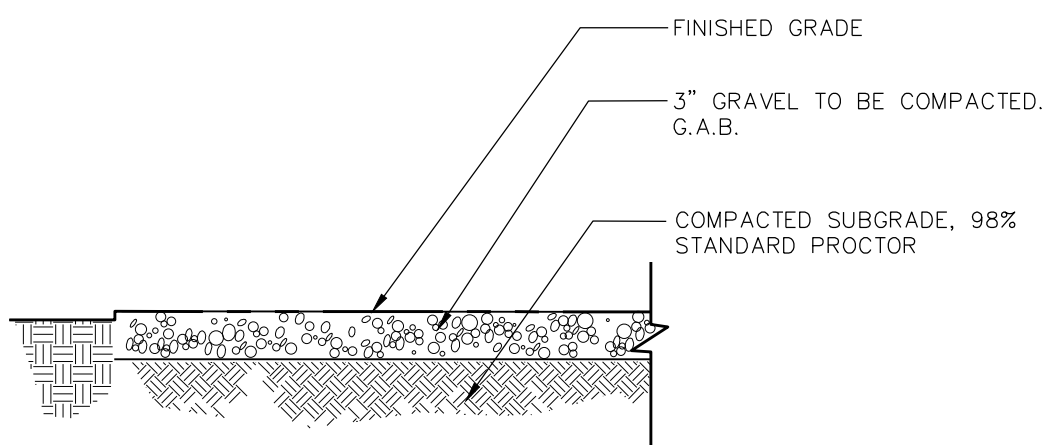
NOTE:
1. UNLESS OTHERWISE INDICATED, PREFORMED EXPANSION JOINTS TO BE 40'-0" O.C. MAX. OR AT BACK OF CURB, CHANGE OF DIRECTION, OTHER WALK UTILITY APPURTENANCE, OR FACE OF STRUCTURE.
2. UNLESS OTHERWISE INDICATED, CONTROL JOINTS AT 8'-0" O.C.
3. ALL SIDEWALKS SHALL HAVE A MAXIMUM CROSS SLOPE OF 1/4" PER FT.

1
C-5
CONCRETE SIDEWALK
NOT TO SCALE



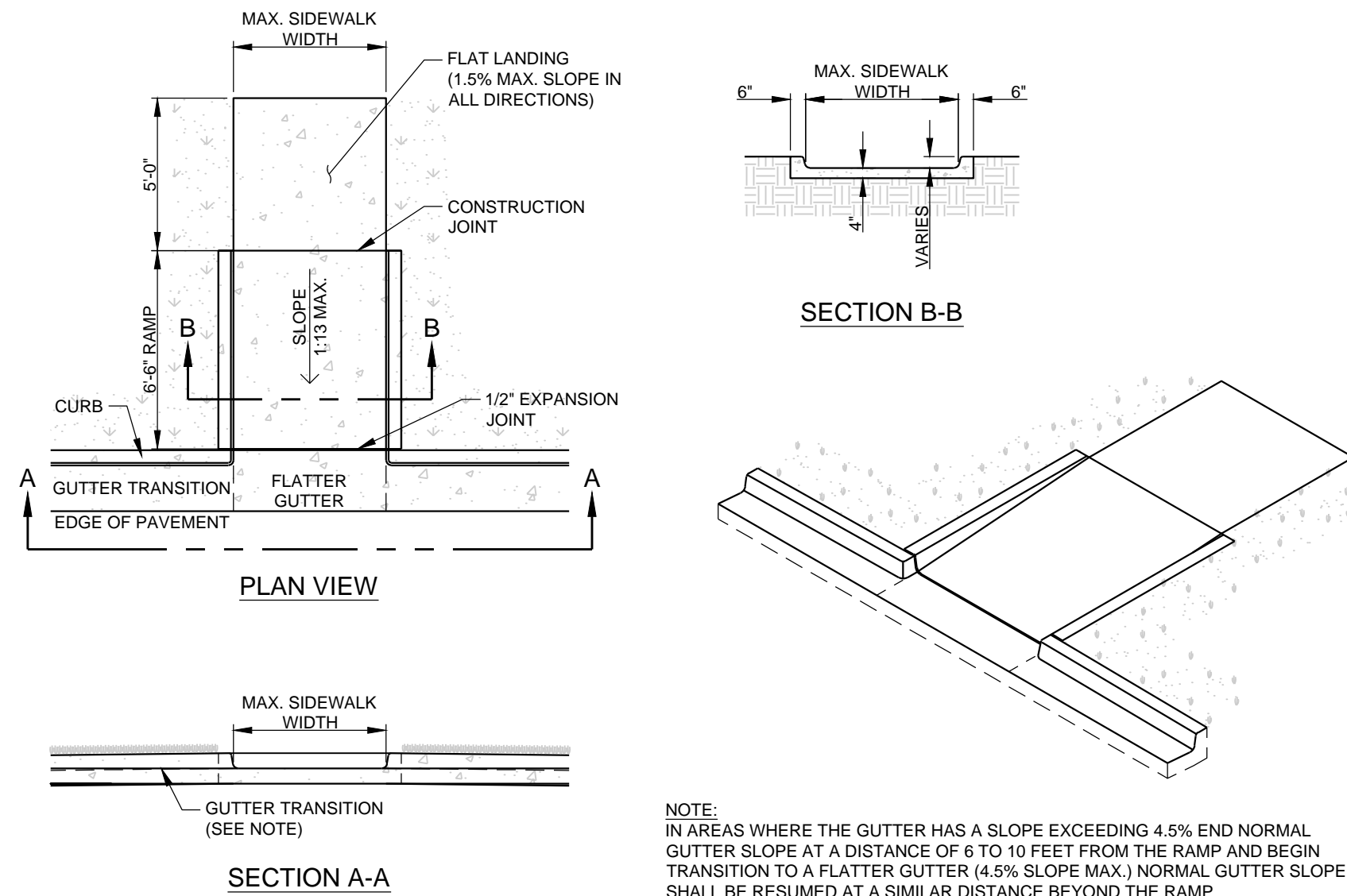
NOTE:
1. 1/2" PRE FORMED EXPANSION JOINTS REQUIRED AT ALL STRUCTURES AND RADIUS POINTS.
2. MAXIMUM DISTANCE BETWEEN EXPANSION JOINTS = 40.0'
3. MAXIMUM DISTANCE DUMMY JOINTS = 10.0'
4. CONCRETE STRENGTH = 3000 P.S.I., SLOPE = 2" MAX. FINISH SHALL BE SMOOTHED AND EVENED WITH WOODEN FLOAT.

2
C-5
24" CONCRETE CURB AND GUTTER
NOT TO SCALE



SEE STAKING PLAN FOR WIDTH OF PATH

3
C-5
GRAVEL PAD SECTION
NOT TO SCALE



4
C-5
ACCESSIBLE CURB RAMP
NOT TO SCALE

ENGINEER:
FORESITE
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Foresite Group, Inc.
5185 Peachtree Pkwy.
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Norcross, GA 30092
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f | 770.368.1944
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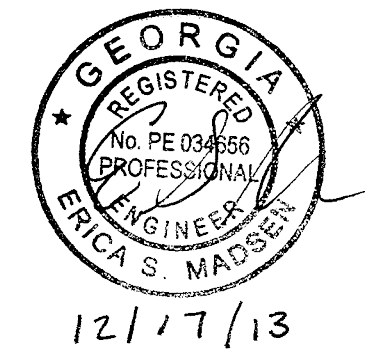
DEVELOPER:

CONTACT:

PROJECT:

BROOK RUN DOG PARK
CONSTRUCTION DOCUMENTS
4770 N. PEACHTREE RD.
DUNWOODY, DEKALB COUNTY, GEORGIA 30338
L.L. 354, 18TH DISTRICT

SEAL:



REVISIONS	DATE
ADDENDUM #1	11/20/2013
EROSION COMMENTS	12/9/13

PROJECT MANAGER:	JVM
DRAWING BY:	NJP
JURISDICTION:	DUNWOODY, GA
DATE:	10 AUGUST 2013
SCALE:	AS SHOWN
TITLE:	

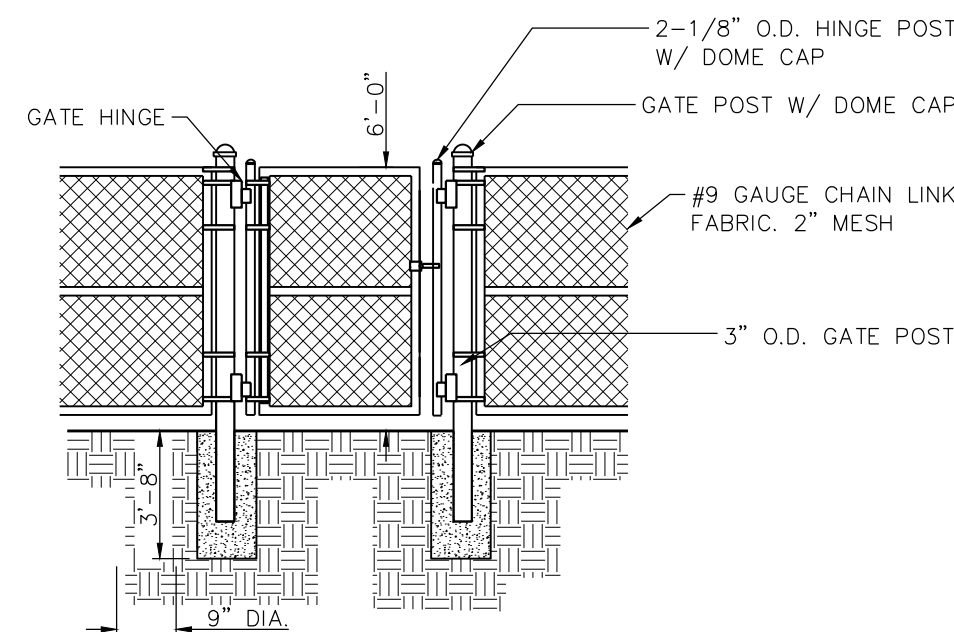
PAVING DETAILS

SHEET NUMBER:

C-5

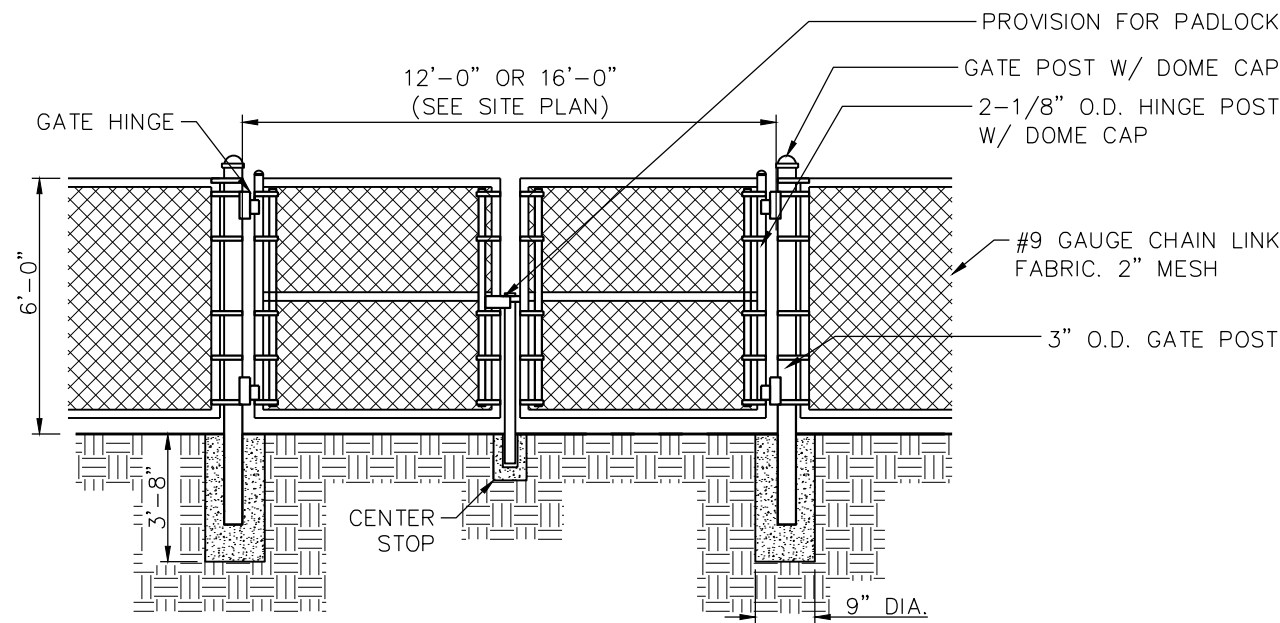
COMMENTS:

JOB/FILE NUMBER: 487.001



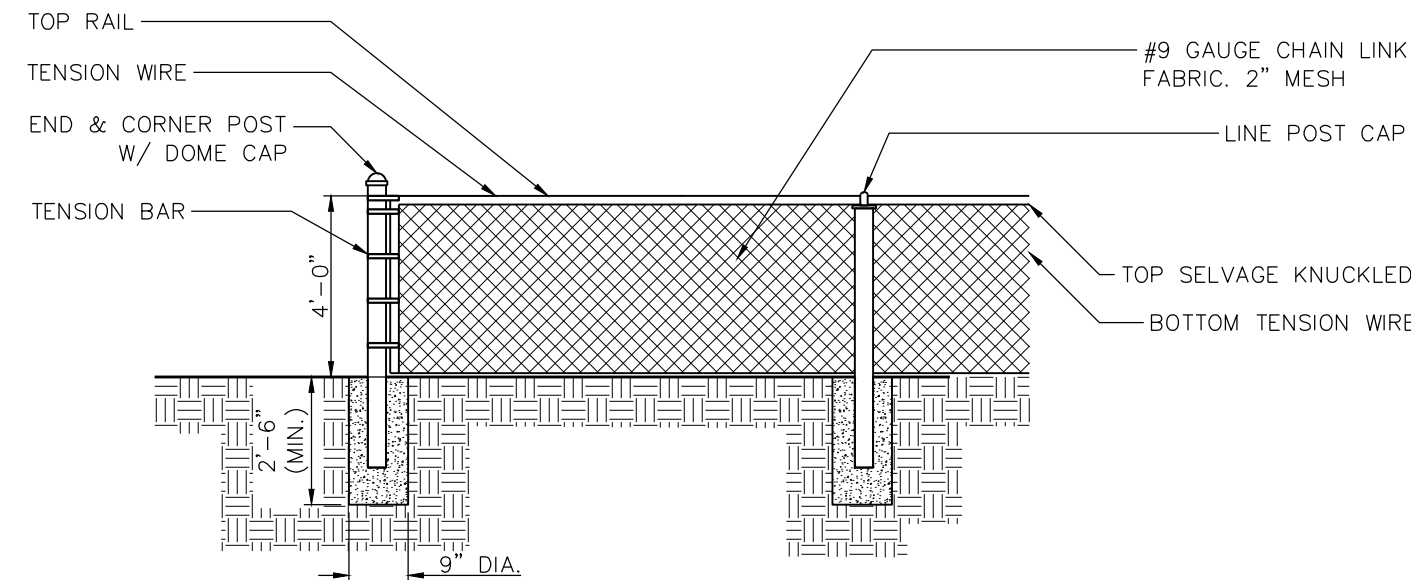
NOTE: SEE SITE PLAN FOR LOCATION OF GATES

1
C-6 6' HIGH SINGLE GATE
NOT TO SCALE 1" = X'



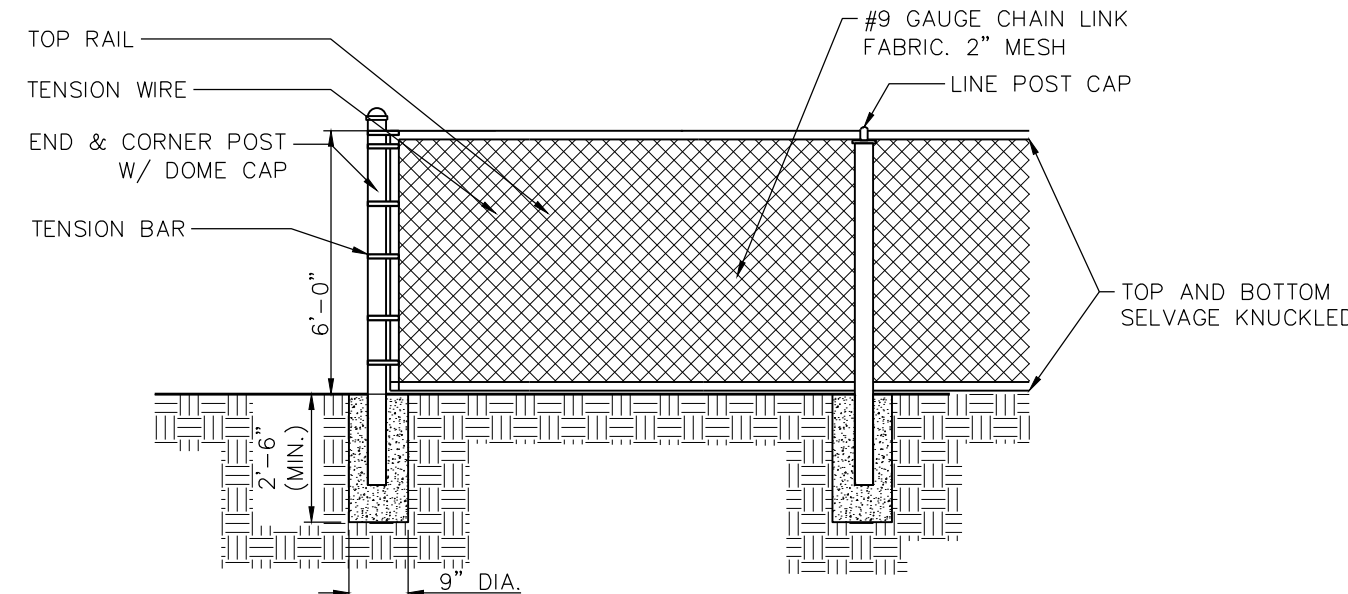
NOTE: SEE SITE PLAN FOR LOCATION OF GATES

2
C-6 6' HIGH DOUBLE GATE
NOT TO SCALE 1" = X'



NOTE: FENCING FABRIC TO BE KNUCKLED AT TOP AND BOTTOM WHERE FENCE IS OVER A PAVED SURFACE. ELEVATION SHALL BE FLUSH WITH PAVING. FENCE FABRIC SHALL BE INSTALLED ON THE INSIDE OF ALL POSTS.

3
C-6 4' HIGH CHAINLINK FENCING
NOT TO SCALE 1" = X'



NOTE: FENCING FABRIC TO BE KNUCKLED AT TOP AND BOTTOM WHERE FENCE IS OVER A PAVED SURFACE. ELEVATION SHALL BE FLUSH WITH PAVING. FENCE FABRIC SHALL BE INSTALLED ON THE INSIDE OF ALL POSTS.

4
C-6 6' HIGH CHAINLINK FENCING
NOT TO SCALE 1" = X'

ENGINEER:

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DEVELOPER:

CONTACT:

PROJECT:

BROOK RUN DOG PARK
CONSTRUCTION DOCUMENTS

4770 N. PEACHTREE RD.
DUNWOODY, DEKALB COUNTY, GEORGIA 30338
L.L. 354, 18TH DISTRICT

SEAL:

GEORGIA
REGISTERED
No. PE 004658
PROFESSIONAL
ENGINEER
ERICA S. MADSEN
12/17/13

REVISIONS	DATE
ADDENDUM #1	11/20/2013
EROSION COMMENTS	12/9/13

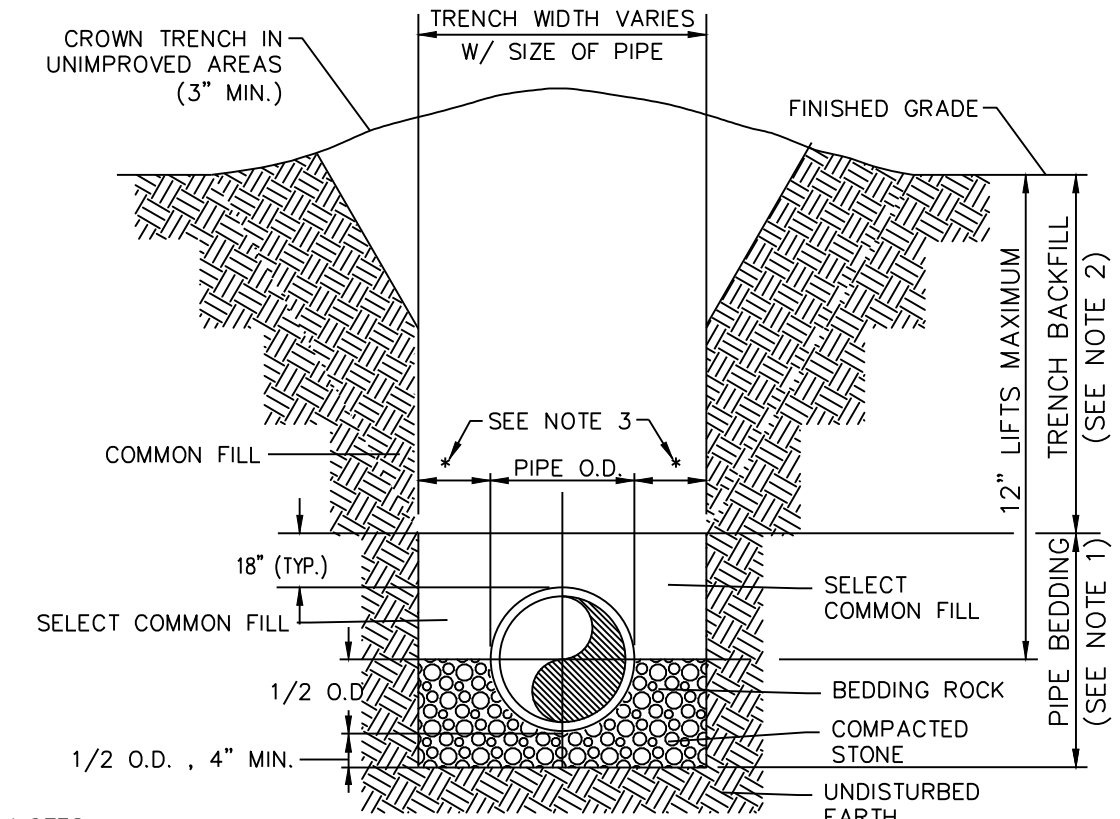
PROJECT MANAGER:	JVM
DRAWING BY:	NJP
JURISDICTION:	DUNWOODY, GA
DATE:	10 AUGUST 2013
SCALE:	AS SHOWN
TITLE:	

CONSTRUCTION DETAILS

SHEET NUMBER: **C-6**

COMMENTS: ---

JOB/FILE NUMBER: 487.001



- NOTES:
- PIPE BEDDING: SELECT COMMON FILL COMPACTED TO 95% OF THE MAXIMUM DENSITY AS PER AASHTO T-180.
 - TRENCH BACKFILL: COMMON FILL COMPACTED TO 95% OF THE MAXIMUM DENSITY AS PER AASHTO T-180.
 - (*) 15" MAX. (12" MIN.) FOR PIPE DIAMETER LESS THAN 24", AND 24" MAX (12" MIN.) FOR PIPE DIAMETER 24" AND LARGER.
 - WATER SHALL NOT BE PERMITTED IN THE TRENCH DURING CONSTRUCTION.
 - ALL PIPE TO BE INSTALLED WITH BELL FACING UPSTREAM TO THE DIRECTION OF THE FLOW.
 - REFER TO THE SECTION OF THE ALDOT STANDARDS FOR SHEETING AND BRACING IN EXCAVATIONS.
 - DEPTH FOR REMOVAL OF UNSUITABLE MATERIAL SHALL GOVERN DEPTH OF BEDDING ROCK BELOW THE PIPE. A CERTIFIED GEOTECHNICAL ENGINEER SHALL DETERMINE IN THE FIELD REQUIRED REMOVAL OF UNSUITABLE MATERIAL TO REACH SUITABLE FOUNDATION.

1 CLASS B BEDDING AND TRENCHING DETAIL C-7 NOT TO SCALE

MINIMUM CONTAINMENT PROTECTION REQUIREMENT
NEW CONSTRUCTION AND RETROFIT INSTALLATIONS
SERVICE SIZE: 3/4" THROUGH 2" METER SIZE THROUGH 2"
REDUCED PRESSURE ZONE BACKFLOW PREVENTER (RPZ BFP) ASSEMBLY

SPECIFICATIONS: THE CUSTOMER/OWNER SHALL FURNISH AND INSTALL A REDUCED PRESSURE ZONE BACKFLOW PREVENTER (RPZ BFP) IN A SIZE TO MATCH THAT OF THE REQUIRED SERVICE LINE. THE RPZ BFP ASSEMBLY SHALL INCLUDE A FULL PORT BALL VALVE ON THE INLET AND OUTLET SIDES WITH A UNION BETWEEN THE DEVICE AND EACH VALVE. THE DEVICE SHALL HAVE THREE BALL VALVE TEST COCKS IN AN ACCEPTABLE POSITION FITTED WITH BRASS OR PLASTIC PLUGS. A FOURTH TEST COCK SHALL BE PROVIDED ON THE INLET SHUTOFF VALVE. A STRAINER SHALL BE INSTALLED IMMEDIATELY UPSTREAM OF THE BFP. UNLESS THE BFP IS DIRECTLY DOWNSTREAM OF THE METER, ALL COMPONENTS OF THE ASSEMBLY SHALL BE EQUIVALENT TO BRONZE OR STAINLESS STEEL CONSTRUCTION AND ASSEMBLED WITH BOLTS THAT ARE RESISTANT TO ELECTROLYSIS.

NOTE: ALL COMPONENTS OF THE ASSEMBLY SHALL BE CERTIFIED BY A NATIONALLY RECOGNIZED TESTING LABORATORY. THE RPZ DEVICE SHALL HAVE CURRENT APPROVAL FROM THE UNIVERSITY OF SOUTHERN CALIFORNIA, FOUNDATION FOR CROSS CONNECTION CONTROL AND HYDRAULIC RESEARCH (USC-FCCHR). ASSEMBLY TO BE INDIVIDUALLY FACTORY TESTED, SHIPPED AND INSTALLED AS A UNIT.

INSTALLATION INSTRUCTIONS: THE RPZ BFP ASSEMBLY SHALL NOT BE INSTALLED BELOW GROUND, BUT INSTALLED ABOVE GROUND AS CLOSE AS PRACTICAL TO THE PROPERTY LINE OF THE PREMISES. AN ABOVE GROUND ENCLOSURE MUST BE PROVIDED FOR PROTECTION FROM FREEZING TEMPERATURES. INSTALL AN APPROVED DRAIN WITH AN AIR GAP WHERE RELIEF ZONE DISCHARGE COULD CAUSE WATER DAMAGE ESPECIALLY WHEN BACKFLOW DEVICES ARE LOCATED INSIDE THE BUILDING. NO CONNECTION WILL BE ALLOWED BETWEEN THE SERVICE METER AND A BFP USED FOR SYSTEM CONTAINMENT UNLESS THIS CONNECTION IS PROTECTED BY AN APPROVED BFP.

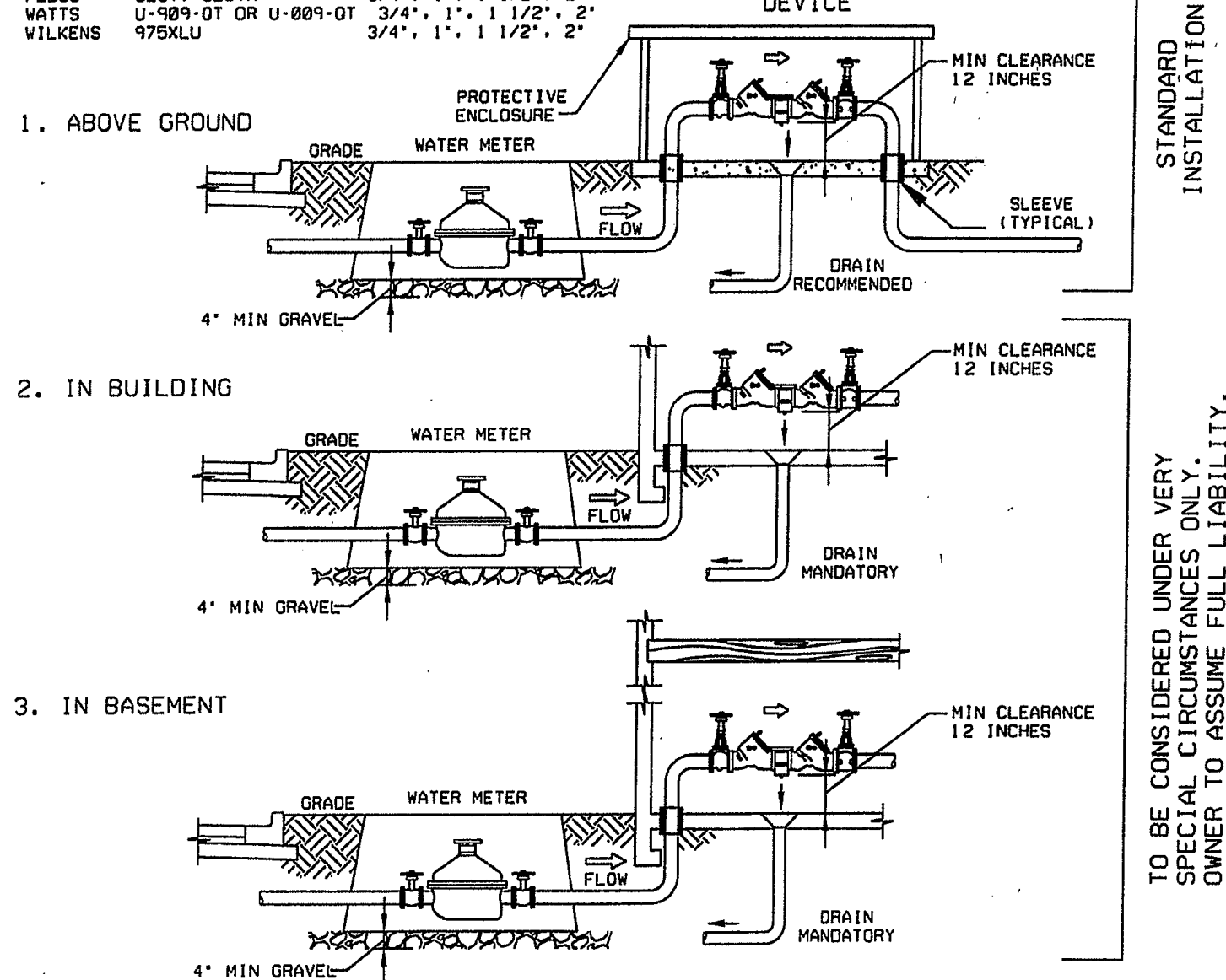
CAUTION: SECTION 607.3, THERMAL EXPANSION CONTROL, OF THE INTERNATIONAL PLUMBING CODE, 2006, AS ADOPTED BY THE GEORGIA STATE PLUMBING CODE (COMBINED 2007 AND 2009 AMENDMENTS) SHOULD BE INCORPORATED IN THE DESIGN OF INSTALLATIONS AND DULY NOTED ON ALL APPLICABLE DRAWINGS PRIOR TO THE INSTALLATION OF ANY IN-LINE CHECKING DEVICES(S).

ANNUALLY THEREAFTER.

INSTALLATION INSPECTION: CONTACT CROSS-CONNECTION CONTROL SECTION, AT 770-414-6180 FOR INSTALLATION INSPECTION.

APPROVED DEVICES: (OR EQUIVALENT) APPROVED INSTALLATION OF REDUCED-PRESSURE-PRINCIPLE DEVICE

CONBRACO 48-280	3/4", 1", 1 1/2", 2"
FEBCO 825Y, 825YA	3/4", 1", 1 1/2", 2"
WATTS U-809-OT OR U-809-OT	3/4", 1", 1 1/2", 2"
WILKINS 975XL	3/4", 1", 1 1/2", 2"



DEKALB COUNTY, GA.
DEPARTMENT OF WATERSHED MANAGEMENT

STANDARD DETAILS

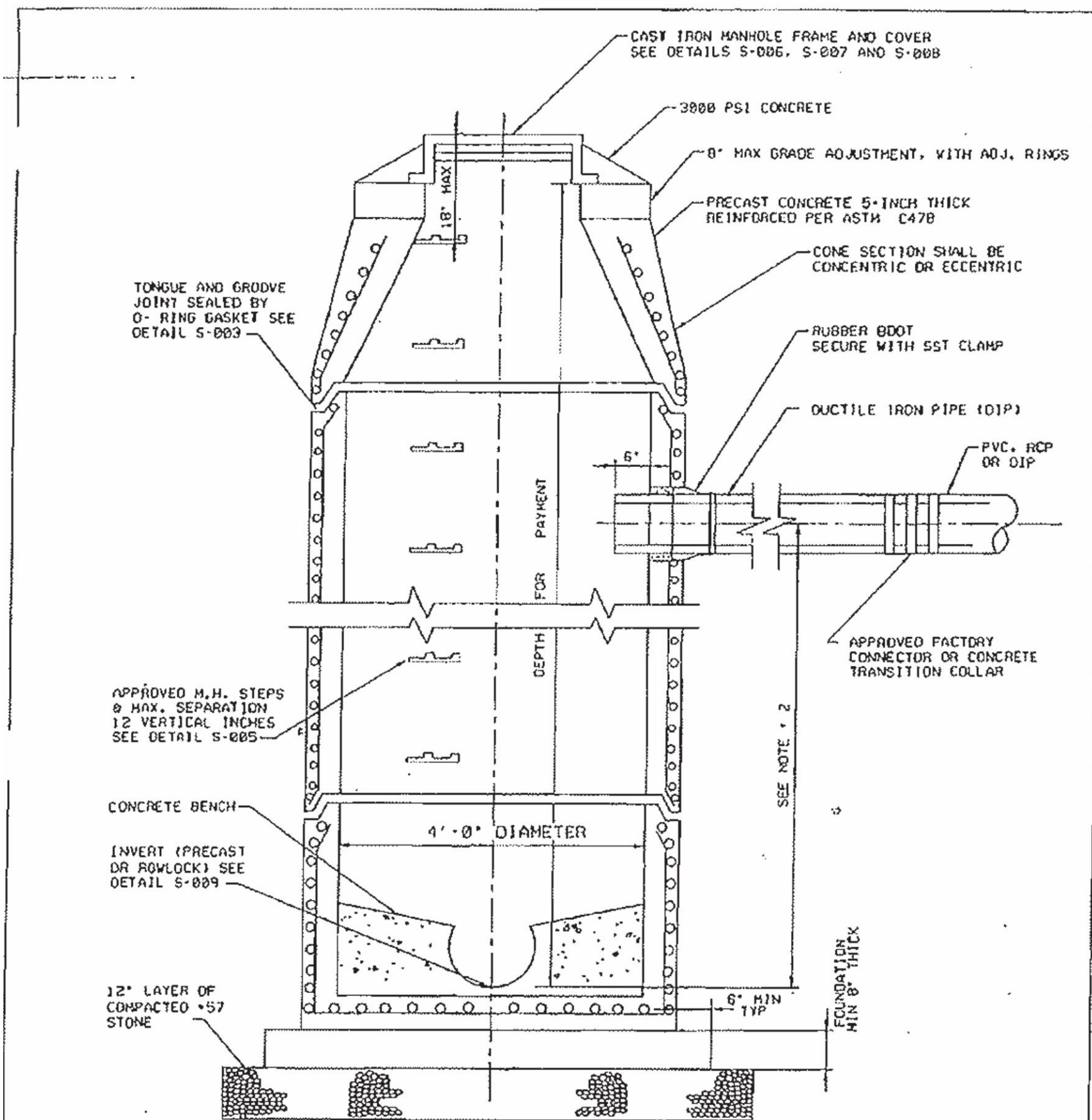
RPZ BFP Installation
3/4" to 2"

NOT TO SCALE

DETAIL NO. W-014

..W-014 RPZ BFP Installation .75' to 2'.dgn 4/21/2011 11:39:23 AM

4 RPZ .75'-2' BFP INSTALLATION C-7 NOT TO SCALE



- NOTES:
- WHERE NECESSARY TO CONSTRUCT MANHOLE OVER EXISTING SEWER, 9" THICK CONCRETE FOLDED-IN-PLACE FOOTING/FOUNDATION MAY BE USED IN LIEU OF PRECAST BOTTOM SECTION.
 - WHERE DROP FROM INVERT OF MANHOLE TO INVERT OF INFLUENT PIPE(S) EXCEED 2'-0", AN OUTSIDE DROP CONNECTION SHALL BE REQUIRED EXCEPT WHEN OGDWM SPECIFICALLY APPROVES ITS ELIMINATION. SEE DETAIL S-602.
 - PRECAST ALL OPENINGS FOR PIPE IN BASE AND RISER UNITS.

DEKALB COUNTY, GA.
DEPARTMENT OF WATERSHED MANAGEMENT

STANDARD DETAILS

Standard Precast Manhole

NOT TO SCALE

DETAIL NO. S-001

2 SANITARY MANHOLE C-7 NOT TO SCALE

MINIMUM RECOMMENDED COVER BASED ON LOADING CONDITIONS

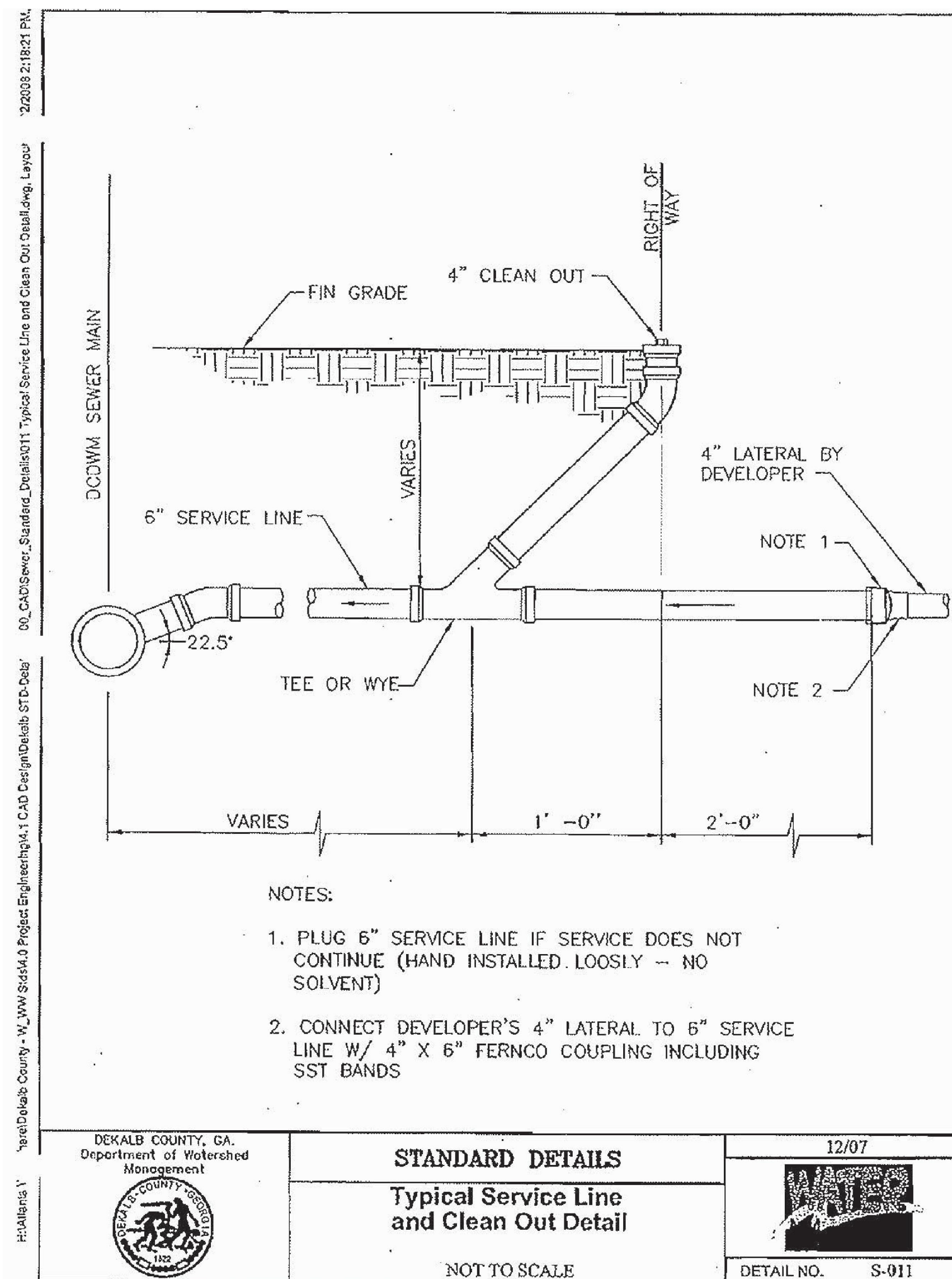
PIPE DIAM.	SURFACE LIVE LOADING CONDITION	
	H-25	HEAVY CONSTRUCTION (75T AXLE LOAD) *
12" - 48"	12"	48"
54" - 60"	24"	60"

* VEHICLES IN EXCESS OF 75T MAY REQUIRE ADDITIONAL COVER

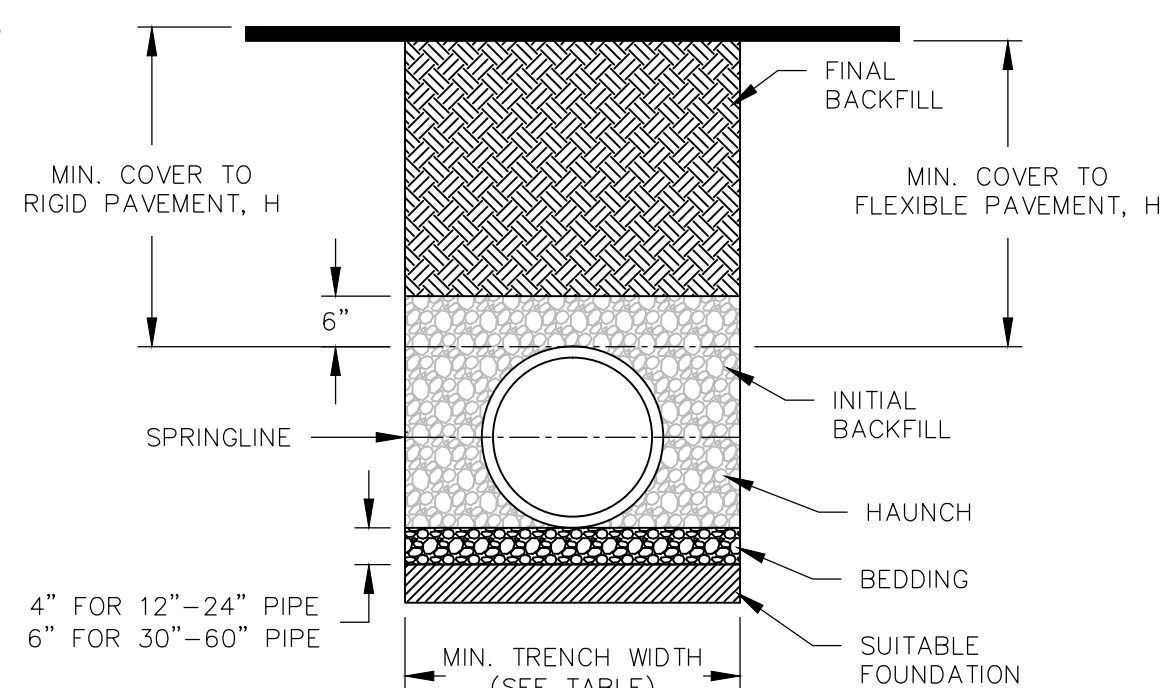
NOTES:

- ALL PIPE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW APPLICATIONS", LATEST ADDITION.
- MEASURES SHOULD BE TAKEN TO PREVENT MIGRATION OF NATIVE FINES INTO BACKFILL MATERIAL, WHEN REQUIRED.
- FOUNDATION: WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH SUITABLE MATERIAL AS SPECIFIED BY THE ENGINEER. AS AN ALTERNATIVE AND AT THE DISCRETION OF THE DESIGN ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A GEOTEXTILE MATERIAL.
- BEDDING: SUITABLE MATERIAL SHALL BE CLASS I, II OR III. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. UNLESS OTHERWISE NOTED BY THE ENGINEER, MINIMUM BEDDING THICKNESS SHALL BE 4" (100mm) FOR 4"-24" (100mm-600mm); 6" (150mm) FOR 30"-60" (750mm-900mm).
- INITIAL BACKFILL: SUITABLE MATERIAL SHALL BE CLASS I, II OR III IN THE PIPE ZONE EXTENDING NOT LESS THAN 6" ABOVE CROWN OF PIPE. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. MATERIAL SHALL BE INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION.
- MINIMUM COVER: MINIMUM COVER, H, IN NON-TRAFFIC APPLICATIONS (GRASS OR LANDSCAPE AREAS) IS 12" FROM THE TOP OF PIPE TO GROUND SURFACE. ADDITIONAL COVER MAY BE REQUIRED TO PREVENT FLOATION. FOR TRAFFIC APPLICATIONS, MINIMUM COVER, H, IS 12" UP TO 48" DIAMETER PIPE AND 24" OF COVER FOR 54"-60" DIAMETER PIPE, MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE PAVEMENT OR TO TOP OF RIGID PAVEMENT.

5 HDPE BEDDING DETAIL C-7 NOT TO SCALE



3 CLEANOUT C-7 NOT TO SCALE



RECOMMENDED MINIMUM TRENCH WIDTHS

PIPE DIAM.	MIN. TRENCH WIDTH
4"	21"
6"	23"
8"	26"
10"	28"
12"	30"
15"	34"
18"	39"
24"	48"
30"	56"
36"	64"
42"	72"
48"	80"
54"	88"
60"	96"

ENGINEER:

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group

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DEVELOPER:

CONTACT:

PROJECT:

BROOK RUN DOG PARK
CONSTRUCTION DOCUMENTS

4770 N. PEACHTREE RD.
DUNWOODY, DEKALB COUNTY, GEORGIA 30338
LL 354, 18TH DISTRICT

SEAL:



REVISIONS DATE

ADDENDUM #1 11/20/2013

PROJECT MANAGER: JWV

DRAWING BY: NJP

JURISDICTION: DUNWOODY, GA

DATE: 10 AUGUST 2013

SCALE: AS SHOWN

TITLE:

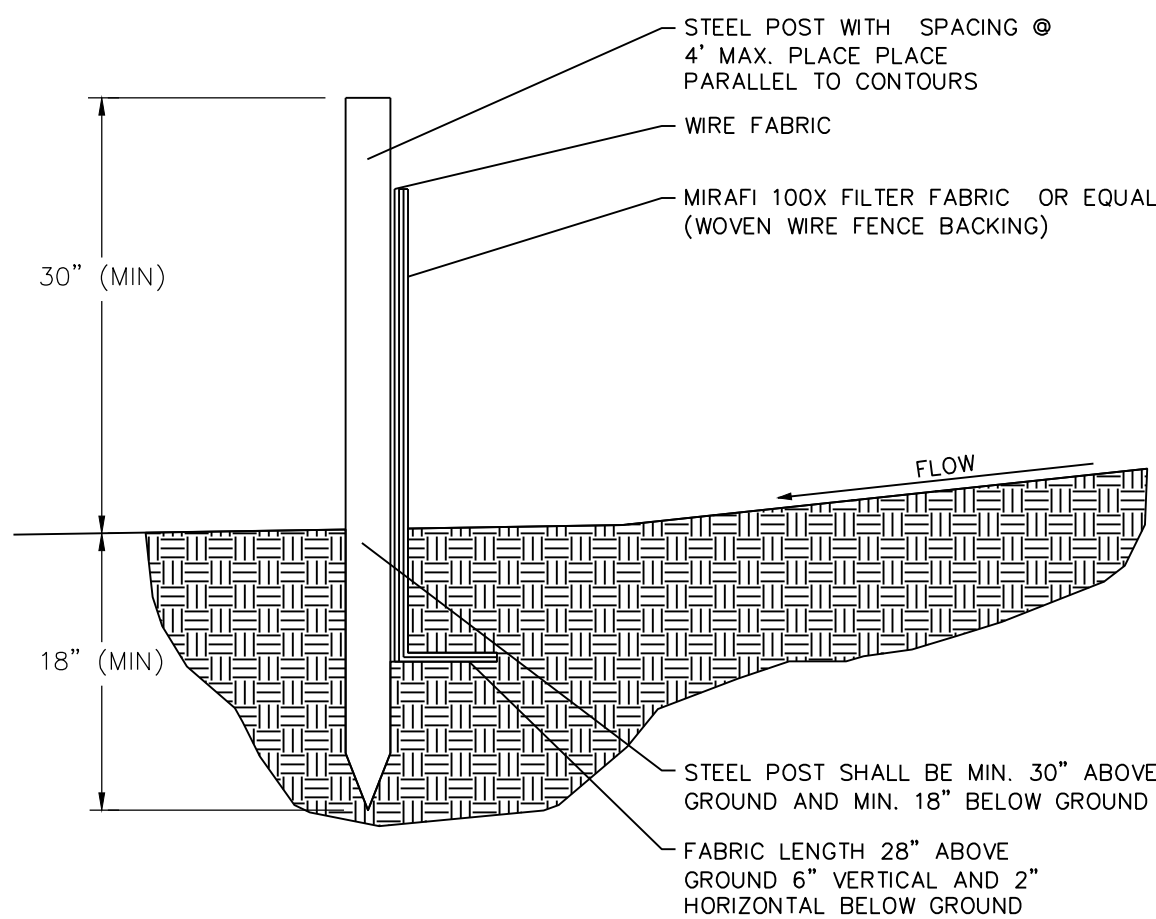
UTILITIES DETAILS

SHEET NUMBER:

COMMENTS:

JOB/FILE NUMBER: 487.001

C-7



- NOTE:
- FENCE SHALL BE WIRE REINFORCED.

Sd1-C SILT FENCE DETAIL - TYPE C
NOT TO SCALE

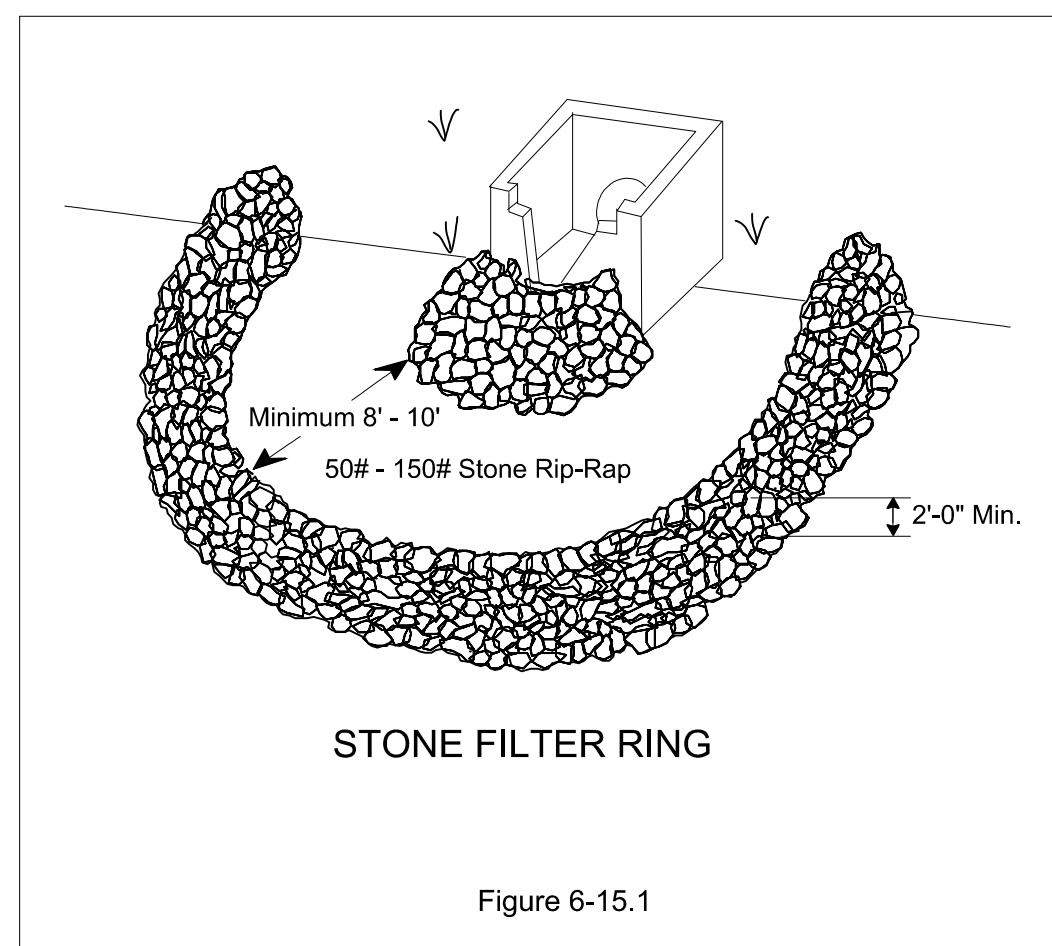
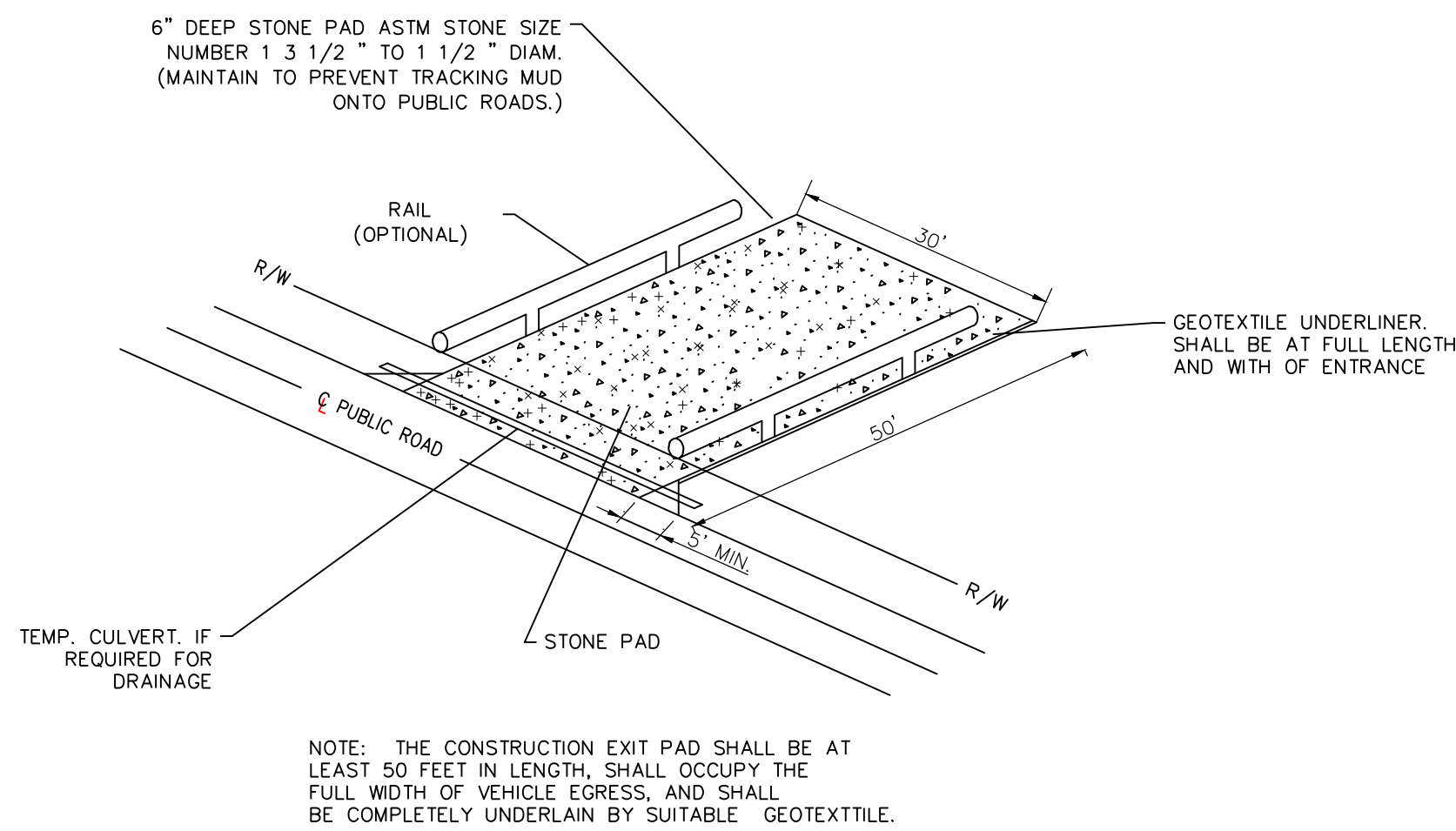


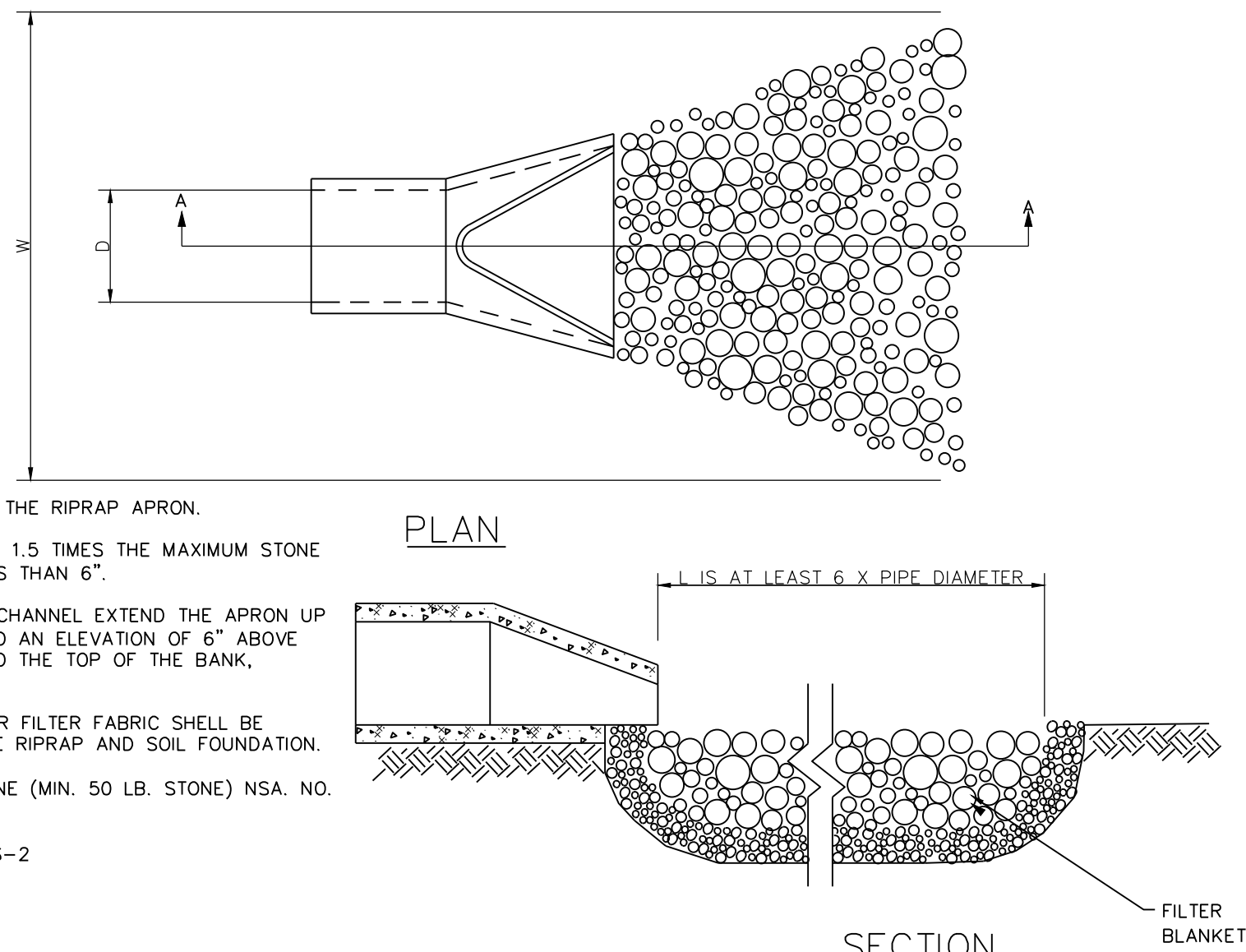
Figure 6-15.1

Fr STONE FILTER RING
NOT TO SCALE



NOTE: THE CONSTRUCTION EXIT PAD SHALL BE AT LEAST 50 FEET IN LENGTH, SHALL OCCUPY THE FULL WIDTH OF VEHICLE EGRESS, AND SHALL BE COMPLETELY UNDERLAIN BY SUITABLE GEOTEXTILE.

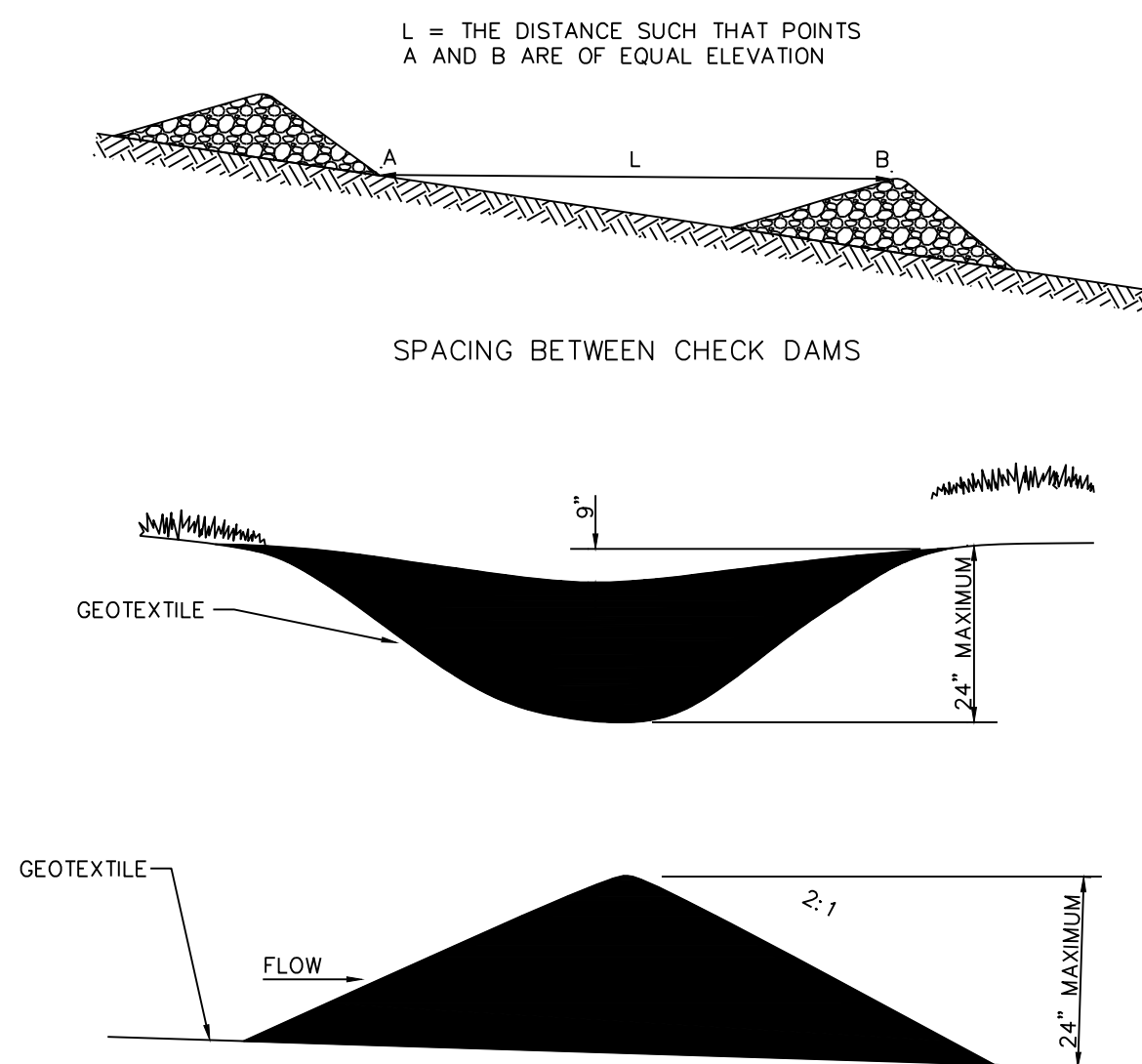
Co TEMPORARY CONSTRUCTION EXIT
NOT TO SCALE



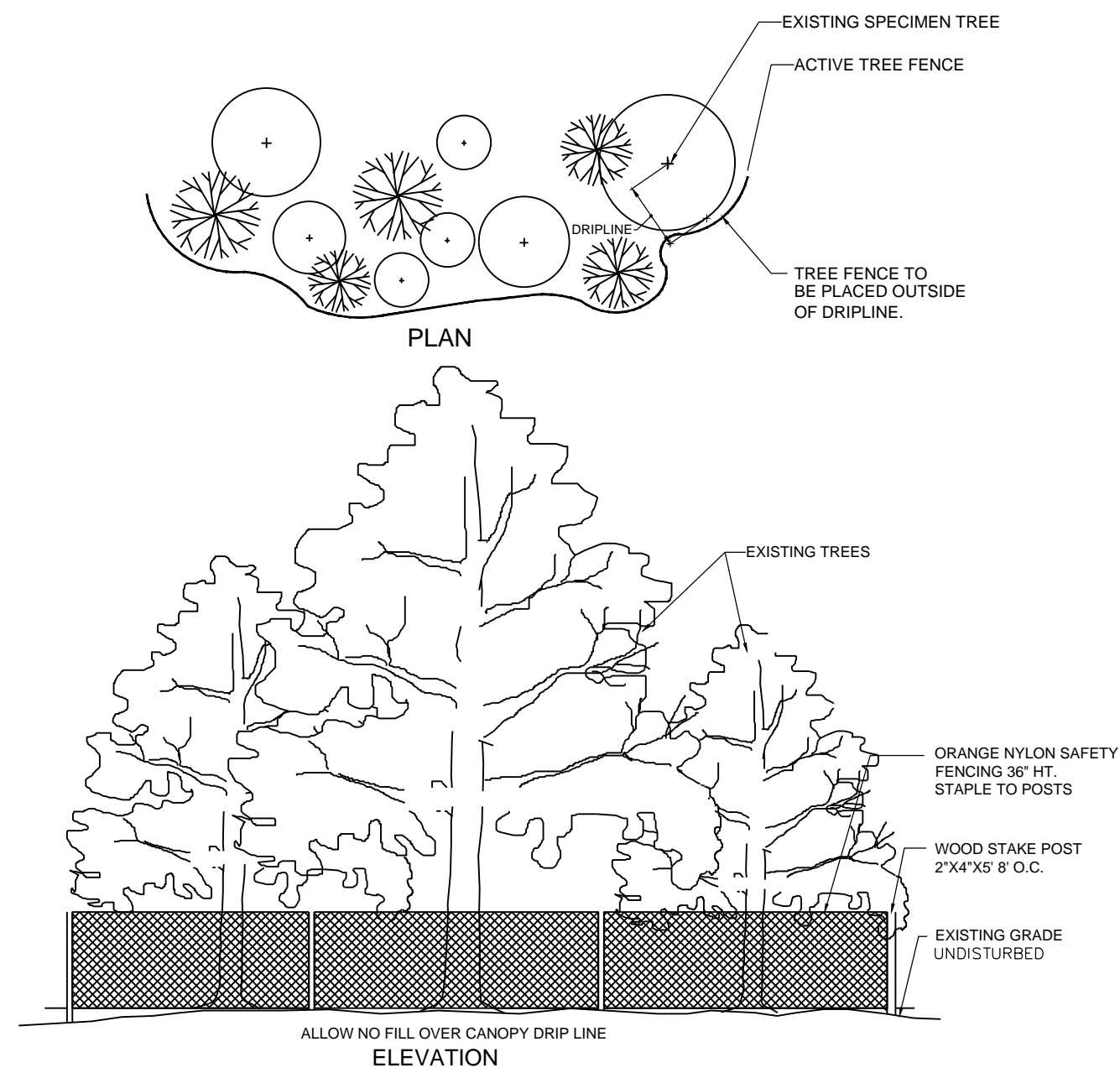
- NOTES:
- L IS THE LENGTH OF THE RIPRAP APRON.
 - THICKNESS SHALL BE 1.5 TIMES THE MAXIMUM STONE DIAMETER BUT NOT LESS THAN 6".
 - IN A WELL-DEFINED CHANNEL EXTEND THE APRON UP THE CHANNEL BANKS TO AN ELEVATION OF 6" ABOVE THE TOP OF PIPE OR TO THE TOP OF THE BANK, WHICHEVER IS LESS.
 - A FILTER BLANKET OR FILTER FABRIC SHALL BE INSTALLED BETWEEN THE RIPRAP AND SOIL FOUNDATION.
 - GRADED RIPRAP, STONE (MIN. 50 LB. STONE) NSA. NO. R-4 - 12" max. 6" ove.
 - FILTER STONE NO. FS-2

Rip-Rap Apron Summary							
Headwall ID	Pipe Diameter, D0 (in)	25-year Q (cfs)	25-year Velocity (ft/sec)	Rip-Rap Size d50	Initial Apron width (ft)	Apron Length, La (ft)	Apron Width, W (ft)
100	18	0.6	4.2	0.5	4.5	9	10.5

St RIP RAP
NOT TO SCALE



Cd-S STONE CHECK DAM
NOT TO SCALE



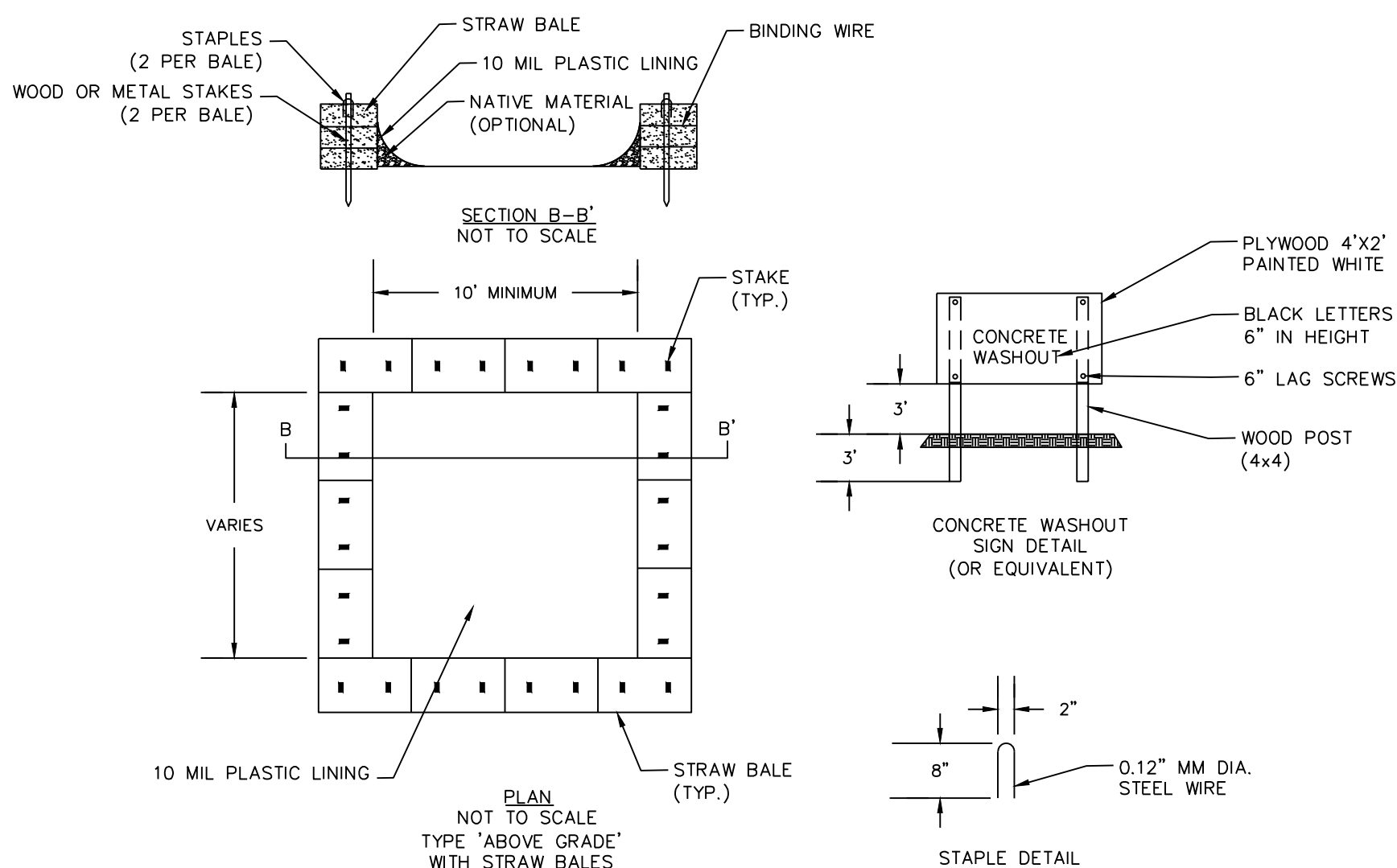
1 C-8 TREE SAVE FENCE DETAIL
NOT TO SCALE

Table 6-5.1. Fertilizer Requirements

TYPE OF SPECIES	YEAR	ANALYSIS OR EQUIVALENT N-P-K	RATE	N DRESSING RATE
1. Cool season grasses	First	6-12-12	1500 lbs./ac.	50-100 lbs./ac. 1/2"
	Second	6-12-12	1000 lbs./ac.	50 lbs./ac. 1/2"
	Maintenance	10-10-10	400 lbs./ac.	30 lbs./ac. 1/2"
2. Cool season grasses and legumes	First	6-12-12	1500 lbs./ac.	50 lbs./ac. 1/2"
	Second	6-12-12	1000 lbs./ac.	50 lbs./ac. 1/2"
	Maintenance	10-10-10	400 lbs./ac.	30 lbs./ac. 1/2"
3. Ground covers	First	10-10-10	1300 lbs./ac. 3"	—
	Second	10-10-10	1300 lbs./ac. 3"	—
	Maintenance	10-10-10	1100 lbs./ac.	—
4. Pine seedlings	First	20-10-5	one 21 gram pellet per seedling placed in the sloping hole	—
5. Shrub/Lespedeza	First	0-10-10	700 lbs./ac.	—
	Maintenance	0-10-10	700 lbs./ac. 4"	30 lbs./ac. 5"
6. Temporary cover crops seeded above	First	10-10-10	500 lbs./ac.	30 lbs./ac. 5"
7. Warm season grasses	First	6-12-12	1000 lbs./ac.	50-100 lbs./ac. 2"
	Second	6-12-12	800 lbs./ac.	50-100 lbs./ac. 2"
	Maintenance	10-10-10	400 lbs./ac.	30 lbs./ac. 2"
8. Warm season grasses and legumes	First	6-12-12	1000 lbs./ac.	50 lbs./ac. 2"
	Second	6-12-12	1000 lbs./ac.	50 lbs./ac. 2"
	Maintenance	10-10-10	400 lbs./ac.	30 lbs./ac. 2"

- 1/ Apply in spring following seeding.
2/ Apply in split applications when high rates are used.
3/ Apply in 3 split applications.
4/ Apply when plants are present.
5/ Apply to grass species only.
6/ Apply when plants grow to a height of 2 to 4 inches.

2 C-8 FERTILIZER APPLICATION TABLE
NOT TO SCALE



- NOTES:
- ACTUAL LAYOUT DETERMINED IN THE FIELD.
 - THE CONCRETE WASHOUT SIGN (SEE FIG. 4-15) SHALL BE INSTALLED WITHIN 10' OF THE TEMPORARY CONCRETE WASHOUT FACILITY.

Cw CONCRETE WASH DETAIL
NOT TO SCALE

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w | www.fg-inc.net

DEVELOPER:

CONTACT:

BROOK RUN DOG PARK
CONSTRUCTION DOCUMENTS
4770 N. PEACHTREE RD.
DUNWOODY, DEKALB COUNTY, GEORGIA 30338
L.L. 354, 18TH DISTRICT

PROJECT:

SEAL:



REVISIONS
ADDENDUM #1
DATE
11/20/2013

PROJECT MANAGER: JWW
DRAWING BY: NJP
JURISDICTION: DUNWOODY, GA
DATE: 10 AUGUST 2013
SCALE: AS SHOWN
TITLE:

EROSION CONTROL DETAILS

SHEET NUMBER:

C-8

COMMENTS:

JOB/FILE NUMBER:

487.001

Signature of Engineer
1575
CERTIFICATION #

11/4/13
DATE
04/22/2014
EXPIRATION

- 1.) PROVISIONS FOR TREE PROTECTION ON THE SITE SHALL BE, AS A MINIMUM, IN CONFORMANCE WITH THE REQUIREMENTS OF THE LATEST EDITION OF THE CITY OF DUNWOODY TREE PRESERVATION ORDINANCE, ZONING ORDINANCE, AND ADMINISTRATIVE GUIDELINES PERTAINING TO TREE PROTECTION.
- 2.) IF THE LANDSCAPE DESIGN AND PLANT MATERIAL ARE CHANGED FROM THE PERMITTED PLAN, THREE (3) SETS OF REVISED PLANS SHALL BE SUBMITTED TO THE CITY OF DUNWOODY ARBORIST'S OFFICE FOR APPROVAL, PRIOR TO ANY LANDSCAPE INSTALLATION.
- 3.) ALL LANDSCAPING FOR EACH PHASE OF DEVELOPMENT SHALL BE COMPLETED PRIOR TO THE RECORDING OF THE FINAL PLAT FOR THAT PHASE, PRIOR TO THE ISSUANCE OF CERTIFICATE OF OCCUPANCY FOR THAT PHASE, OR PRIOR TO CONNECTION OF PERMANENT POWER FOR THAT PHASE. CONTACT THE CITY OF DUNWOODY AT 678.362.6800 FOR SITE INSPECTION UPON COMPLETION OF LANDSCAPE INSTALLATION
- 4.) CONTACT THE CITY OF DUNWOODY PLANNER/ARBORIST AT 678.362.6810 TO DETERMINE IF A PRE-CONSTRUCTION MEETING PRIOR TO ANY LAND DISTURBANCE IS REQUIRED. ALL REQUIRED TREE FENCE MUST BE INSTALLED PRIOR TO THIS MEETING.
- 5.) UNDISTURBED BUFFERS SHALL BE PLANTED TO BUFFER STANDARDS WHERE SPARSELY VEGETATED OR WHERE DISTURBED DUE TO APPROVED UTILITY CROSSINGS. REPLANTING IS SUBJECT TO CITY PLANNER/ARBORIST APPROVAL. (DO NOT PLANT TREES WITHIN THE SANITARY SEWER EASEMENT.)
- 6.) CALL BEFORE YOU DIG: 800.282.7411

PAYMENT FOR GRASSING

Seeded and sodded lawns will be acceptable provided the conditions of Section 02900 have been met, including maintenance, and a healthy, uniform, close stand of grass is established, free of: bare spots in excess of 6 inches square and surface irregularities.

Payment for seeding will be paid at 50% of the total contract amount for seeding until germination and grow-in of permanent grassing has achieved 95% on all areas to be seeded. Payment will be increased to 90% after 95% grow-in has been achieved. Final payment, and payment of retainage, will be made only after 100% grow-in has been achieved. Permanent seeding may only take place seasonally as listed in the Manual for Erosion and Sediment control in Georgia tables for permanent seeding region M-L. If the permanent Bermuda grass seeding cannot be installed during the specified dates, the contractor, at no additional expense to the owner, shall install temporary seeding and maintain temporary cover until the next season for permanent seeding. In areas where seeding was installed at the proper time per the Manual for Erosion and Sediment Control in Georgia and less than full coverage is achieved per the requirements of the Section 02900, which would prevent the owner from opening the facility to the public before the next planting season, the contractor will seed all areas that do not have full coverage - at no cost to the owner. Temporary seeding in high pedestrian traffic areas will not be permitted for facilities that are to open before the next growing season. These areas must be sodded at no cost to the owner.

Final payment and release of retainage will not be made until establishment of grass over 100% of the project is acceptable to the County.

