CONTRACTOR SHALL INSTALL TEMPORARY CONSTRUCTION FENCING AROUND SITE PERIMETER AS NECESSARY FOR SECURITY AND PUBLIC SAFETY.

NOTE: NO WORK IS TO BE DONE ON ADJACENT PROPERTIES/RIGHT-OF-WAYS UNTIL WRITTEN PERMISSION IS GRANTED BY THE PROERTY/RIGHT-OF-WAY OWNER.

STORM PIPE NOTES

1. ALL PIPE WITHIN D.O.T. RIGHT-OF-WAY SHALL BE RCP.
2. HP STORM BY ADVANCED DRAINAGE SYSTEMS, INC.
   ***NOTE: RCP MAY BE SUBSTITUTED FOR ALL HP STORM PIPE ON-SITE UNLESS BURY DEPTHS EXCEED 15'.
   2.1 INSTALL PER MANUFACTURER'S SPECIFICATIONS.
3. STORM PIPE TYPE AND JOINTS SHALL BE AS FOLLOWS:
   3.1 REINFORCED CONCRETE PIPE
      3.2.1. FOR FILLS LESS THAN 15 FEET OVER TOP OF PIPE: CLASS III OR GREATER SHALL BE USED
      3.2.2 FOR FILLS 15 FEET TO 20 FEET OVER PIPE: CLASS V OR GREATER SHALL BE USED
      3.2.3. FOR FILLS GREATER THAN 20 FEET OVER PIPE: CLASS V OR GREATER SHALL BE USED.
      3.2.4. JOINT MATERIAL
         3.2.4.1. RUBBER O-RING GASKET: AASHTO M 198, TYPE B OR ASTM C 443 (WATER TIGHT)
   3.3 HIGH DENSITY POLYETHYLENE PIPE (HDPE): AASHTO M252 TYPE S, M 294 TYPE S, OR ASTM F 2306 SMOTH INTERIOR/ANNULAR EXTERIOR
      3.3.1. JOIN MATERIAL
         3.3.1.1. RUBBER GASKET
            3.3.1.1.1. ADS N-12 WT BY ADVANCED DRAINAGE SYSTEMS, INC.
            3.3.1.1.2. BLUE SEAL BY HANCOR, INC.

ALL PROPOSED DOWNSPOUT BOOTS SHALL BE NEENAH R 4929 OR APPROVED EQUAL

BUILDING PAD PREPARATION
EXISTING GRADES WITHIN BUILDING AREA (EXTENDING 5' BEYOND BUILDING ENVELOPE) SHALL BE UNDERCUT TO A MINIMUM DEPTH OF 3', OR AS DIRECTED BY THE GEOTECHNICAL ENGINEER, AND REPLACED WITH STRUCTURAL FILL. SEE GEOTECHNICAL REPORT FROM CSRA, DATED JAN 16 2019, FOR ADDITIONAL INFORMATION.

NOTE: CONTRACTOR SHALL PROVIDE 1/4" (MIN.) TO 1/2" (MAX) DROP TO ALL SIDEWALKS AT BUILDING ENTRANCES. SPOT ELEVATIONS ON PLANS INDICATE FINISH FLOOR ELEVATION ONLY.

GRADING NOTES

1. CONTRACTOR IS RESPONSIBLE FOR DEMOLITION OF EXISTING STRUCTURES INCLUDING REMOVAL OF ANY EXISTING UTILITIES SERVING THE STRUCTURE. UTILITIES ARE TO BE REMOVED TO THE RIGHT-OF-WAY.
2. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF ALL EXISTING UTILITIES (ABOVE OR BELOW GROUND) AS SHOWN ON THESE PLANS ARE APPROXIMATE AND WERE LOCATED BASED ON EITHER VISUAL OBSERVATIONS AT THE SITE, EXISTING SURVEYS AND/OR FROM UTILITY OWNERS. GMC DOES NOT GUARANTEE THAT EXISTING UTILITY LOCATIONS SHOWN ARE EXACT. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXACT LOCATIONS OF EXISTING UTILITIES (ABOVE OR BELOW GROUND) BEFORE BEGINNING ANY CONSTRUCTION. THE CONTRACTOR SHALL CALL THE APPROPRIATE UTILITY COMPANIES AND THE UTILITIES' PROTECTION CENTER AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY OWNER AND/OR ENGINEER OF ANY UTILITY CONFLICTS WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
3. ALL CUT OR FILL SLOPES SHALL BE 3:1 OR FLATTER UNLESS OTHERWISE NOTED.
4. PRECAST STRUCTURES MAY BE USED AT CONTRACTORS OPTION.
5. EXISTING DRAINAGE STRUCTURES TO BE INSPECTED AND REPAIRED AS NEEDED, AND EXISTING PIPES TO BE CLEANED OUT TO REMOVE ALL SILT AND DEBRIS.
6. EXISTING GRADE CONTOUR SHOWN AT 1 FOOT INTERVALS.
7. PROPOSED GRADE CONTOUR SHOWN AT 1 FOOT INTERVALS.
8. IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO REPAIR AND/OR REPLACE THE EXISTING STRUCTURE AS NECESSARY TO RETURN IT TO EXISTING CONDITIONS OR BETTER.
9. ALL STORM PIPE ENTERING STRUCTURES SHALL BE GROUTED TO ASSURE CONNECTION AT STRUCTURE IS WATERTIGHT.
10. ALL STORM SEWER MANHOLES IN PAVED AREAS SHALL BE FLUSH WITH PAVEMENT, AND SHALL HAVE TRAFFIC BEARING RING & COVERS. ALL MANHOLES IN UNPAVED AREAS SHALL BE 8" ABOVE FINISH GRADE.
11. THE CONTRACTOR SHALL ADHERE TO ALL TERMS & CONDITIONS AS STATED IN THE GENERAL N.P.D.E.S. PERMIT FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITIES.
12. CONTRACTOR SHALL ADJUST ALL CUT / FILL SLOPES AND PAVEMENTS AS NECESSARY TO ASSURE A SMOOTH TRANSITION.
13. CONTRACTOR SHALL ENSURE POSITIVE STORM WATER DRAINAGE AWAY FROM BUILDINGS FOR ALL NATURAL AND PAVED AREAS.
14. ALL GRASSED AREAS DISTURBED BY GRADING OPERATION SHALL RECEIVE 4 INCHES OF TOPSOIL. CONTRACTOR SHALL APPLY STABILIZATION FABRIC TO ALL SLOPES AS INDICATED ON THE EROSION CONTROL PLANS. CONTRACTOR SHALL GRASS DISTURBED AREAS IN ACCORDANCE WITH STATE/COUNTY SPECIFICATIONS UNTIL A HEALTHY STAND OF GRASS IS OBTAINED.
15. CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE GOVERNING CODES AND BE CONSTRUCTED IN SAME.
16. ALL STORM SEWER PIPES SHALL HAVE A SMOOTH UNIFORM POURED MORTAR INVERT FROM INVERT-IN TO INVERT-OUT.
17. CONTRACTOR TO CONTACT THE CITY/COUNTY FIRE DEPARTMENT FOR BLASTING REQUIREMENTS.
18. CONTRACTOR SHALL VERIFY BENCHMARKS PRIOR TO SETTING FINISHED GRADES.
19. ALL A.D.A. SPACES SHALL BE GRADED TO HAVE A MAXIMUM SLOPE OF 2.00% IN ANY DIRECTION.
20. CONTRACTOR SHALL COORDINATE ALL EXCAVATION WITH GEOTECHNICAL TESTING COMPANY. ALL COMPACTION SHALL BE PER THE GEOTECHNICAL REPORT.
21. ANY IMPORT OR EXPORT OF SOIL AND/OR MATERIALS SHALL BE TO/FROM A PERMITTED BORROW/SPOIL SITE. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING DOCUMENTATION OF ANY AND ALL IMPORT/EXPORT SITES USED FOR CONSTRUCTION.
22. THE CONTRACTOR SHALL NOTIFY THE ENGINEER ANY AREAS THAT MAY TRAP STORMWATER RUNOFF AND/OR NOT DRAIN PROPERLY.

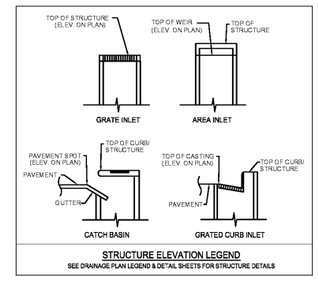
TREE PROTECTION FENCING SHALL BE HDPE HIGH VISIBILITY ORANGE OR CHAIN LINK. ALL TREE PROTECTION FENCE SHALL BE A MIN. OF 5' TALL. MOUNTING STAKES/POSTS SHALL BE DRIVEN A MIN. OF 2' INTO GROUND @ 10' SPACING (MAX).

NOTE: PRECAST CONCRETE STRUCTURES MAY BE SUBSTITUTED FOR ALL ADS/NYOPLAST DRAINAGE STRUCTURES.

ALL SIDEWALKS SHALL HAVE 2.00% MAX CROSS-SLOPE, UNLESS NOTED OTHERWISE

DRAINAGE PLAN LEGEND

- STORM SEWER PIPING
- OUTLET CONTROL STRUCTURE
- GRATE INLET PER SCDOT DETAIL 719-105-01
- JUNCTION BOX
- AREA INLET TYPE 9 CURB INLET PER SCDOT DETAIL 719-009-01
- RIP-RAP OUTLET PROTECTION
- HEADWALL
- LANDSCAPE INLET - 15" NYLOPLAST INLINE DRAIN (ADS PART #2715AG12X) W/ ADS STANDARD H-23 GRATE (ADS PART #1596OGS)
- TREE PROTECTION FENCE



STRUCTURE ELEVATION LEGEND
SEE DRAINAGE PLAN LEGEND & DETAIL SHEETS FOR STRUCTURE DETAILS

GRAPHIC SCALE
(IN FEET)
1 inch = 40 ft.

GOODWYN, MILLS & CAWOOD, INC. No. 0330 — SOUTH CAROLINA — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — No. 36415 — PROFESSIONAL ENGINEER — DARIN TROY LINGER

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ISSUE | DATE
BID DOCUMENTS | 10.24.19

DRAWN BY: MG
CHECKED BY: DH

MILLBROOK ELEMENTARY
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RENOVATIONS
255 E PINE LOG RD, AIKEN, SC 29803
GMC # CGRE190013

SPOT ELEVATION PLAN

C-202

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