SITE DEVELOPMENT PLANS FOR: HOME 2 SUITES BYHLTON 475 HOSPITALITY BOULEVARD GREENWOOD, SOUTH CAROLINA

CONTACT INFORMATION

FIRE DISTRICT

ADDRESS: 201 OAKWOOD DR

PHONE: 864 223-8075 CONTACT: CHIEF CHAD KELLUM

COMPANY: | GREENWOOD COUNTY STATION 30

GREENWOOD, SC 29649

GREENWOOD COUNTY PLANNING

COMPANY: | GREENWOOD COUNTY PLANNING DEPARTMENT ADDRESS: 538 MONUMENT ST, ROOM B-01 GREENWOOD, SC 29646 PHONE: 864 942-8631 CONTACT: CHRISTOPHER HUDSON

SCDHEC - STORMWATER

COMPANY: | SCDHEC - STORMWATER PERMITTING ADDRESS: 2600 BULL ST

COLUMBIA, SC 29201 PHONE: 864 898-4300 CONTACT:

SANITARY SEWER

COMPANY: | GREENWOOD METROPOLITAN SEWER DISTRICT 110 METRO DR GREENWOOD, SC 29646

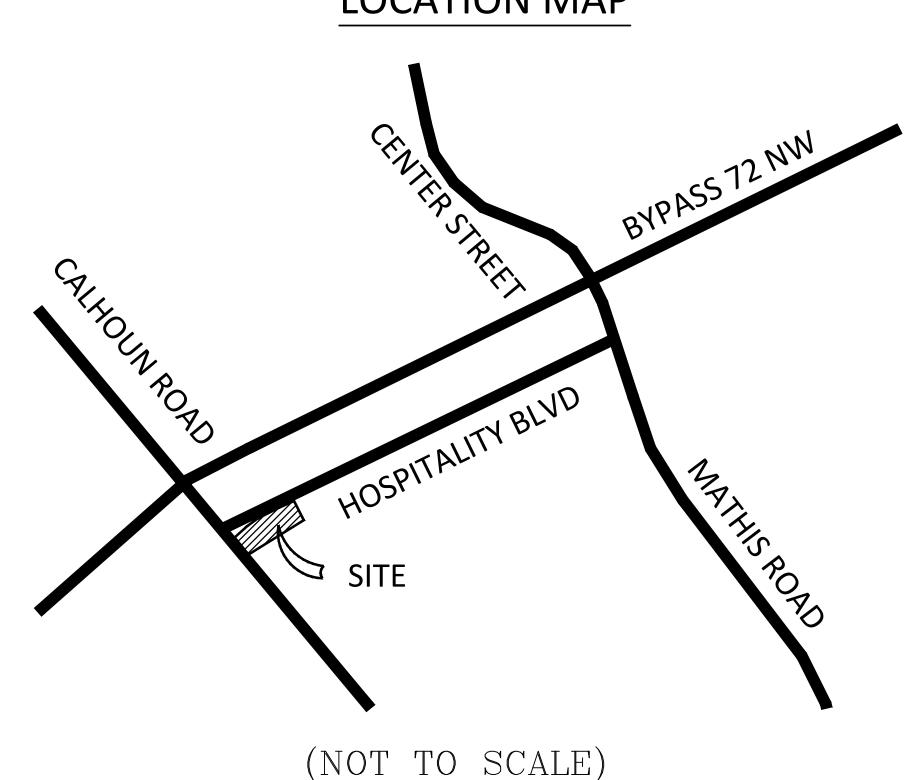
PHONE: 864 942-3901 CONTACT: BRIAN WALDROP

WATER DISTRIBUTION

COMPANY: | GREENWOOD COMMISSIONERS OF PUBLIC WORKS

ADDRESS: P.O. BOX 549 GREENWOOD, SC 29648 PHONE: 864 942-8199 CONTACT: RUSSELL HOLLEY

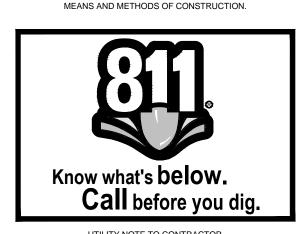
LOCATION MAP



SHEET INDEX

TITLE SHEET **DEMOLITION PLAN** STAKEOUT PLAN GRADING. DRAINAGE. AND EROSION CONTROL PLAN **EROSION & SEDIMENTATION CONTROL PLAN - PHASE 1 EROSION & SEDIMENTATION CONTROL PLAN - PHASE 2** D-1 MISCELLANEOUS NOTES AND DETAILS D-2 MISCELLANEOUS NOTES AND DETAILS MISCELLANEOUS NOTES AND DETAILS D-3 MISCELLANEOUS NOTES AND DETAILS D-10 MISCELLANEOUS NOTES AND DETAILS D-11 MISCELLANEOUS NOTES AND DETAILS D-12 MISCELLANEOUS NOTES AND DETAILS D-13 MISCELLANEOUS NOTES AND DETAILS LANDSCAPE PLAN LANDSCAPE PLAN SS-1 SANITARY SEWER PROFILE SS-2 **SANITARY SEWER DETAILS**

SAFETY NOTE TO CONTRACTOR
THE CONTRACTOR SHALL SHORE TRENCH EXCAVATION AND USE PIPE BOX TO COMPLY WITH ALL OSHA SAFETY REGULATIONS. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO PROVIDE JOB SITE SAFETY AND COMPLY WITH ALL SAFETY



UTILITY NOTE TO CONTRACTOR
THE UTILITIES SHOWN ARE FOR THE CONTRACTOR'S CONVENIENCE ONLY. THERE MAY BE OTHER UTILITIES NOT SHOWN ON THESE PLANS. THE ENGINEER ASSUMES NO THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATIONS OF ALL UTILITIES WITHIN THE LIMITS OF THE WORK. ALL DAMAGE MADE TO EXISTING UTILITIES BY THE CONTRACTOR SHALL BE THE SOLE RESPONSIBILITY OF THE

OWNER

HOSPITALITY HOTEL GROUP LLC 475 HOSPITALITY BLVD ANDERSON, SC 29621 864-907-0252

ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES AND/OR UTILITY SERVICE COMPANIES SHALL BE PERFORMED PRIOR TO ANY BUILDING POSSESSION AND THE FINAL CONNECTION OF SERVICES.

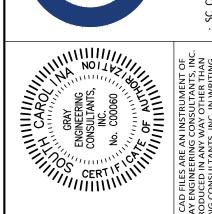
I have placed my signature and seal on the design documents submitted signifying that I accept responsibility for the design of the system. Further, I certify to the best of my knowledge and belief that the design is consistent with the requirements of Title 48, Chapter 14 of the Code of Laws of SC, 1976 as amended, pursuant to Regulation 72-300 et seq. (if applicable), and in accordance with the terms and conditions of SCR100000.

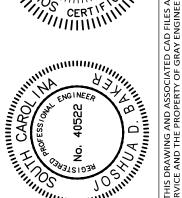
I hereby certify that these plans were prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the laws of the state of South Carolina and that I am competent to prepare this document

South Carolina Registration No. 40522







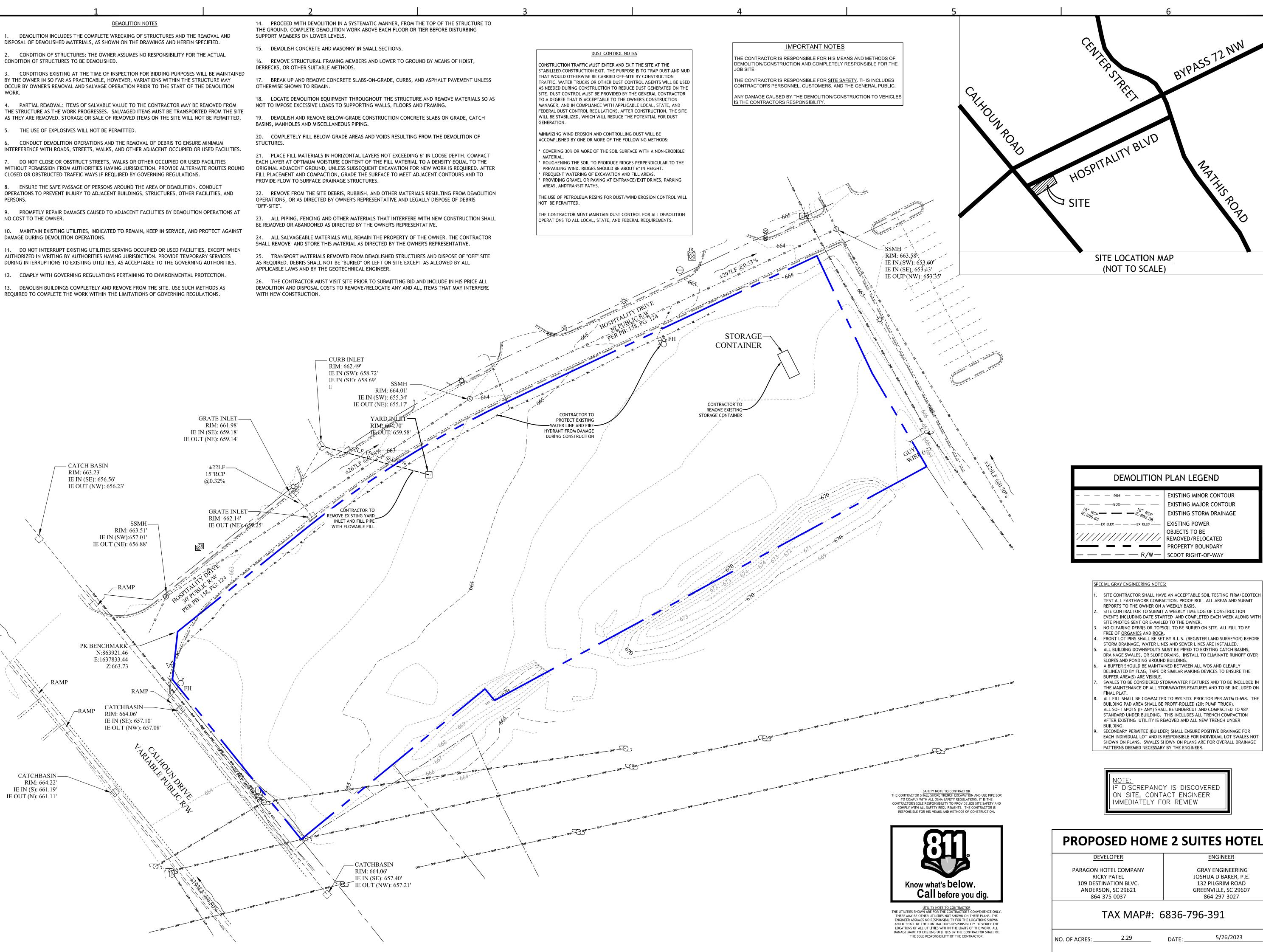


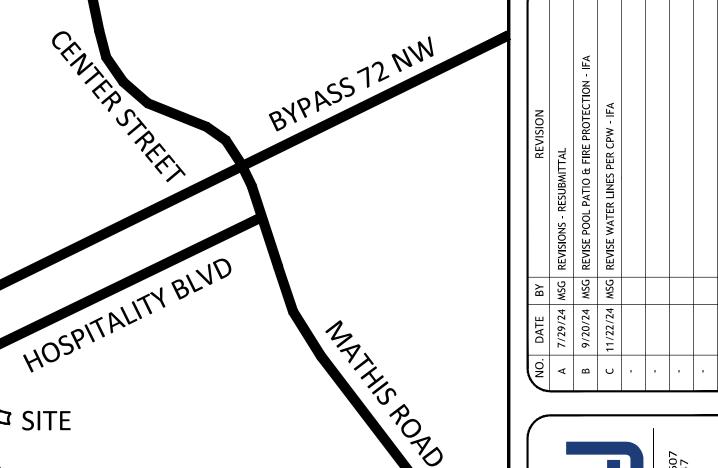
PROPOSED IOME 2 SUITE BY HILTON

PROJECT MANAGER: MSG 5/3/2023 PROJECT DATE: JOB No.: 2023104 PLOT DATE: 3/26/25

SHEET

2023104-Details.dwg





SITE LOCATION MAP

(NOT TO SCALE)

DEMOLITION PLAN LEGEND

904 -- -- Existing minor contour

· — R/W—| SCDOT RIGHT-OF-WAY

SITE CONTRACTOR SHALL HAVE AN ACCEPTABLE SOIL TESTING FIRM/GEOTECH TEST ALL EARTHWORK COMPACTION. PROOF ROLL ALL AREAS AND SUBMIT

SITE CONTRACTOR TO SUBMIT A WEEKLY TIME LOG OF CONSTRUCTION EVENTS INCLUDING DATE STARTED AND COMPLETED EACH WEEK ALONG WITH

NO CLEARING DEBRIS OR TOPSOIL TO BE BURIED ON SITE. ALL FILL TO BE FREE OF <u>ORGANICS</u> AND <u>ROCK</u>.
FRONT LOT PINS SHALL BE SET BY R.L.S. (REGISTER LAND SURVEYOR) BEFORE

ALL BUILDING DOWNSPOUTS MUST BE PIPED TO EXISTING CATCH BASINS,

DRAINAGE SWALES, OR SLOPE DRAINS. INSTALL TO ELIMINATE RUNOFF OVER

SWALES TO BE CONSIDERED STORMWATER FEATURES AND TO BE INCLUDED IN THE MAINTENANCE OF ALL STORMWATER FEATURES AND TO BE INCLUDED ON

ALL FILL SHALL BE COMPACTED TO 95% STD. PROCTOR PER ASTM D-698. THE

ALL SOFT SPOTS (IF ANY) SHALL BE UNDERCUT AND COMPACTED TO 98%

STANDARD UNDER BUILDING. THIS INCLUDES ALL TRENCH COMPACTION AFTER EXISTING UTILITY IS REMOVED AND ALL NEW TRENCH UNDER

SECONDARY PERMITEE (BUILDER) SHALL ENSURE POSITIVE DRAINAGE FOR EACH INDIVIDUAL LOT AND IS RESPONSIBLE FOR INDIVIDUAL LOT SWALES NOT SHOWN ON PLANS. SWALES SHOWN ON PLANS ARE FOR OVERALL DRAINAGE

STORM DRAINAGE, WATER LINES AND SEWER LINES ARE INSTALLED.

A BUFFER SHOULD BE MAINTAINED BETWEEN ALL WOS AND CLEARLY DELINEATED BY FLAG, TAPE OR SIMILAR MAKING DEVICES TO ENSURE THE

BUILDING PAD AREA SHALL BE PROFF-ROLLED (20t PUMP TRUCK).

F DISCREPANCY IS DISCOVERED

ENGINEER

864-297-3027

5/26/2023

ON SITE, CONTACT ENGINEER

TAX MAP#: 6836-796-391

IMMEDIATELY FOR REVIEW

SPECIAL GRAY ENGINEERING NOTES:

REPORTS TO THE OWNER ON A WEEKLY BASIS.

SITE PHOTOS SENT OR E-MAILED TO THE OWNER.

SLOPES AND PONDING AROUND BUILDING.

PATTERNS DEEMED NECESSARY BY THE ENGINEER.

BUFFER AREA(S) ARE VISIBLE.

FINAL PLAT.

BUILDING.

| EXISTING MAJOR CONTOUR

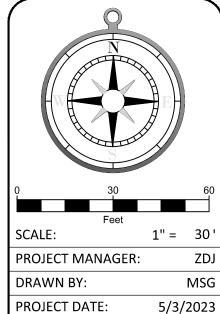
EXISTING STORM DRAINAGE

OBJECTS TO BE



OPOSED 1E 2 SUITE 'HILTON

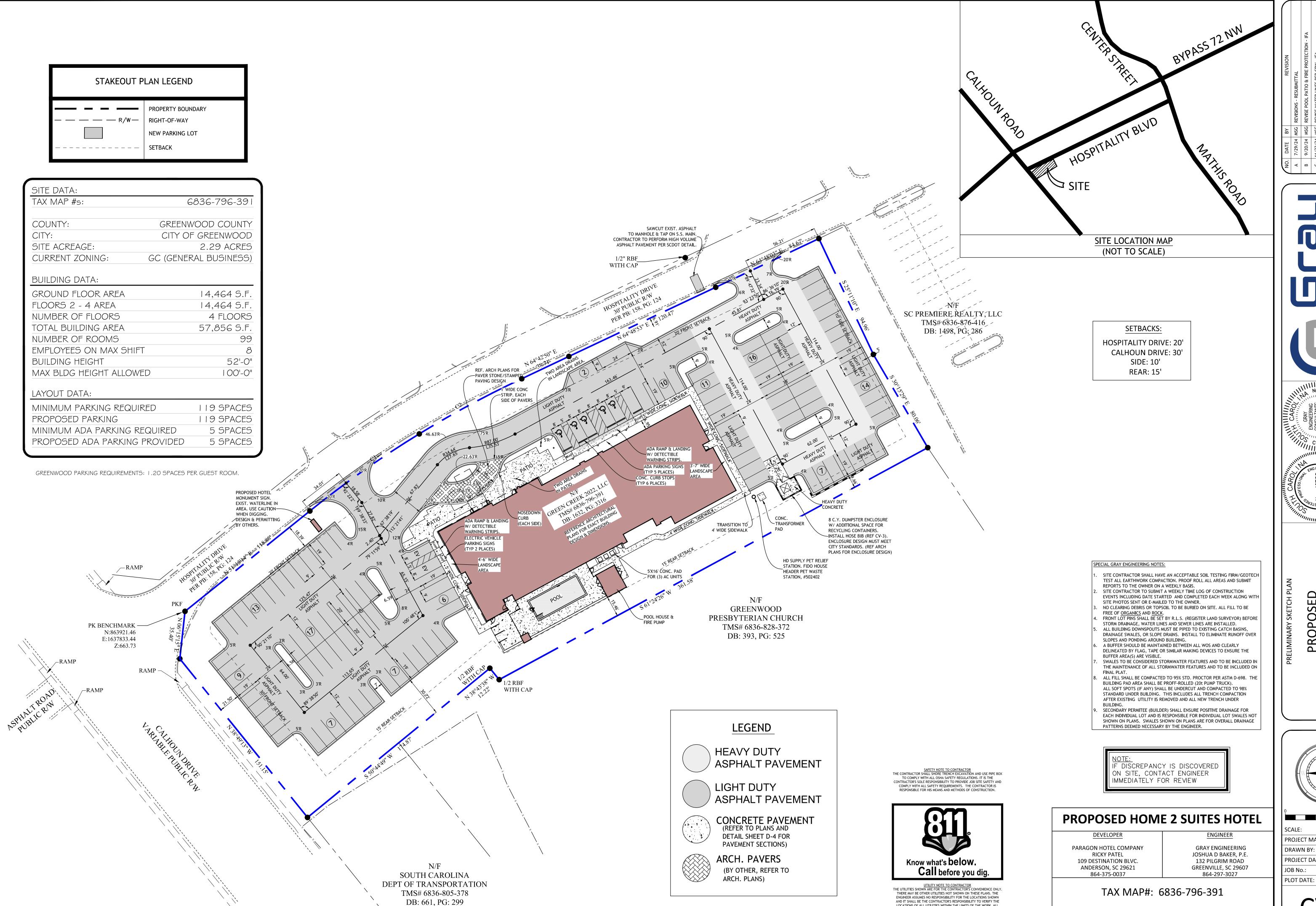
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GRAY ENGINEERING JOSHUA D BAKER, P.E. PROJECT DATE: 132 PILGRIM ROAD GREENVILLE, SC 29607 JOB No.: PLOT DATE:

3/26/25

2023104





PROPOSED HOME 2 SUITES BY HILTON

SCALE:

PROJECT MANAGER: DRAWN BY: PROJECT DATE: JOB No.:

5/26/2023

NO. OF ACRES: 2.29

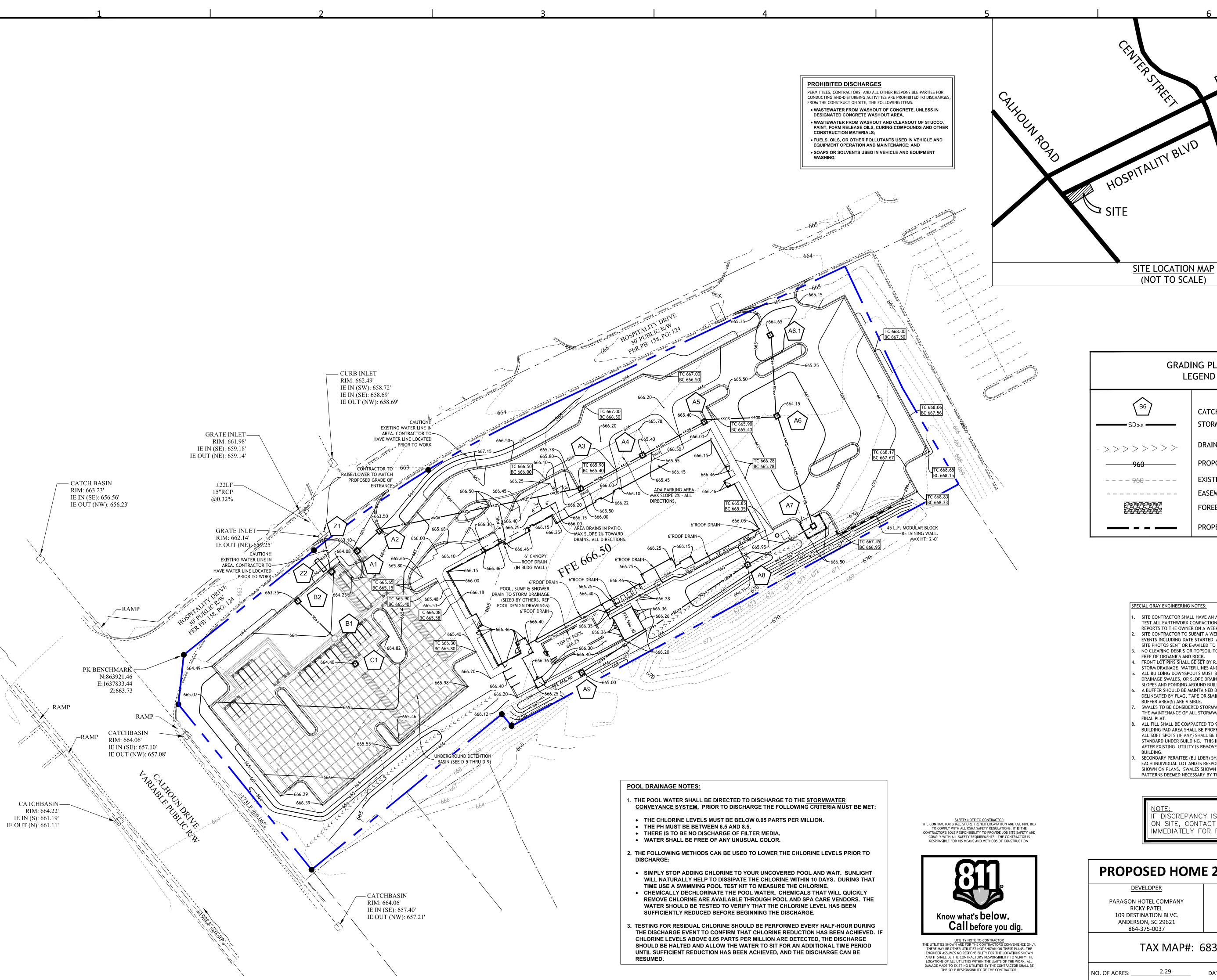
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3/26/25

MSG

5/3/2023

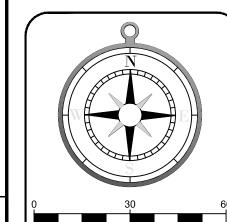
2023104







PROPOSED IOME 2 SUITE BY HILTON



PROPOSED HOME 2 SUITES HOTEL

DISCREPANCY IS DISCOVERED

ON SITE, CONTACT ENGINEER

IMMEDIATELY FOR REVIEW

DEVELOPER PARAGON HOTEL COMPANY **GRAY ENGINEERING**

PATTERNS DEEMED NECESSARY BY THE ENGINEER.

(NOT TO SCALE)

GRADING PLAN

LEGEND

CATCH BASIN

STORM DRAINAGE

DRAINAGE ARROWS

PROPOSED CONTOUR

EXISTING CONTOUR

EASEMENT

FOREBAY

PROPERTY LINE

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FINAL PLAT.

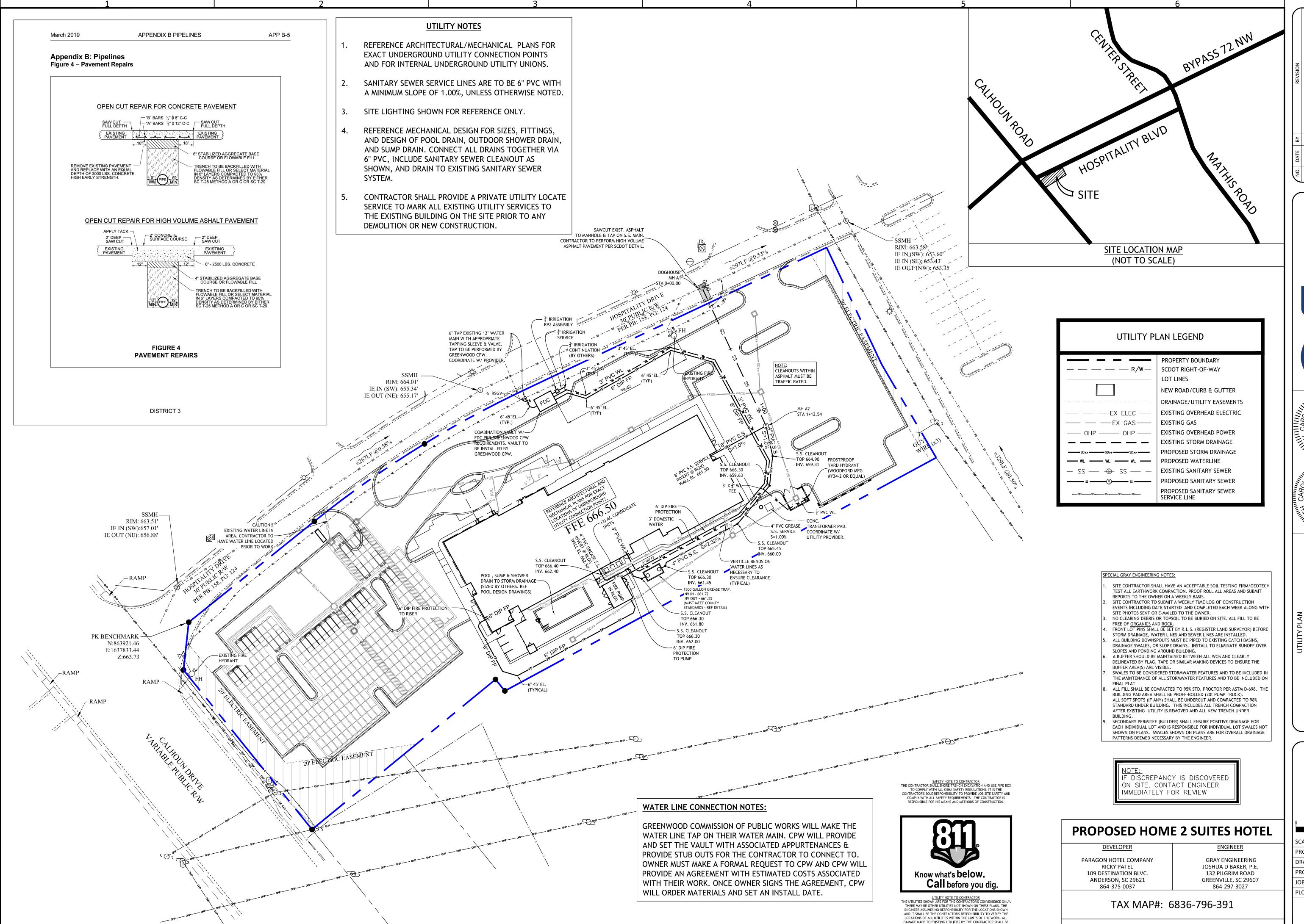
BUILDING.

RICKY PATEL JOSHUA D BAKER, P.E. 109 DESTINATION BLVC. 132 PILGRIM ROAD ANDERSON, SC 29621 GREENVILLE, SC 29607 864-375-0037 864-297-3027

TAX MAP#: 6836-796-391

5/26/2023 NO. OF ACRES: 2.29

SCALE: PROJECT MANAGER: DRAWN BY: MSG 5/3/2023 PROJECT DATE: 2023104 JOB No.: PLOT DATE: 3/26/25



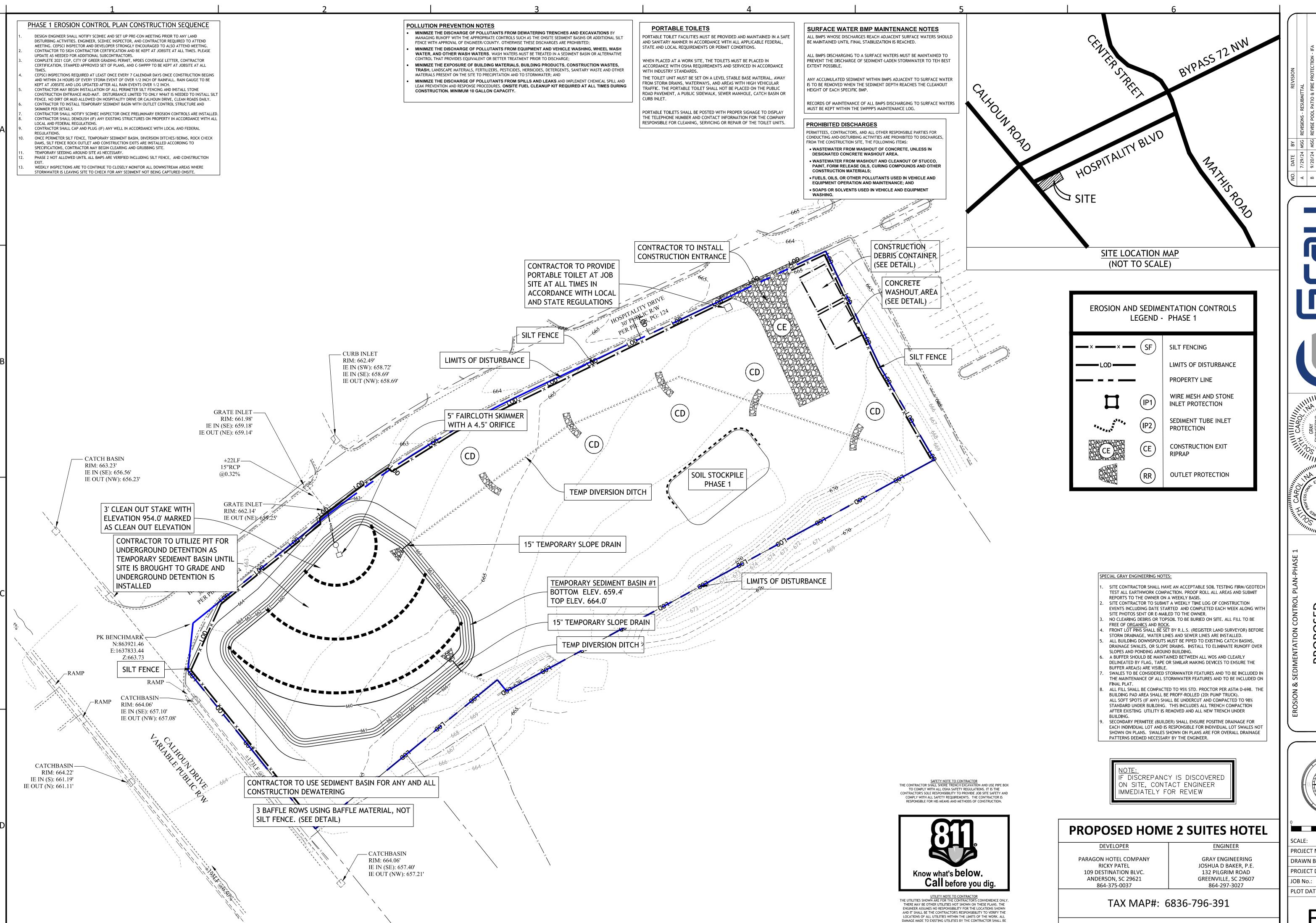
PROPOSED IOME 2 SUITE BY HILTON

SCALE: PROJECT MANAGER: DRAWN BY: 5/3/2023 PROJECT DATE: 2023104 JOB No.: PLOT DATE: 3/26/25

5/26/2023

NO. OF ACRES: _______2.29

THE SOLE RESPONSIBILITY OF THE CONTRACTOR.



CONSULTANTS

CONSU

PROPOSED HOME 2 SUITES BY HILTON

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NO. OF ACRES: 2.29 DATE: 5/26/2023

THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

 SCALE:
 1" = 30 '

 PROJECT MANAGER:
 ZDJ

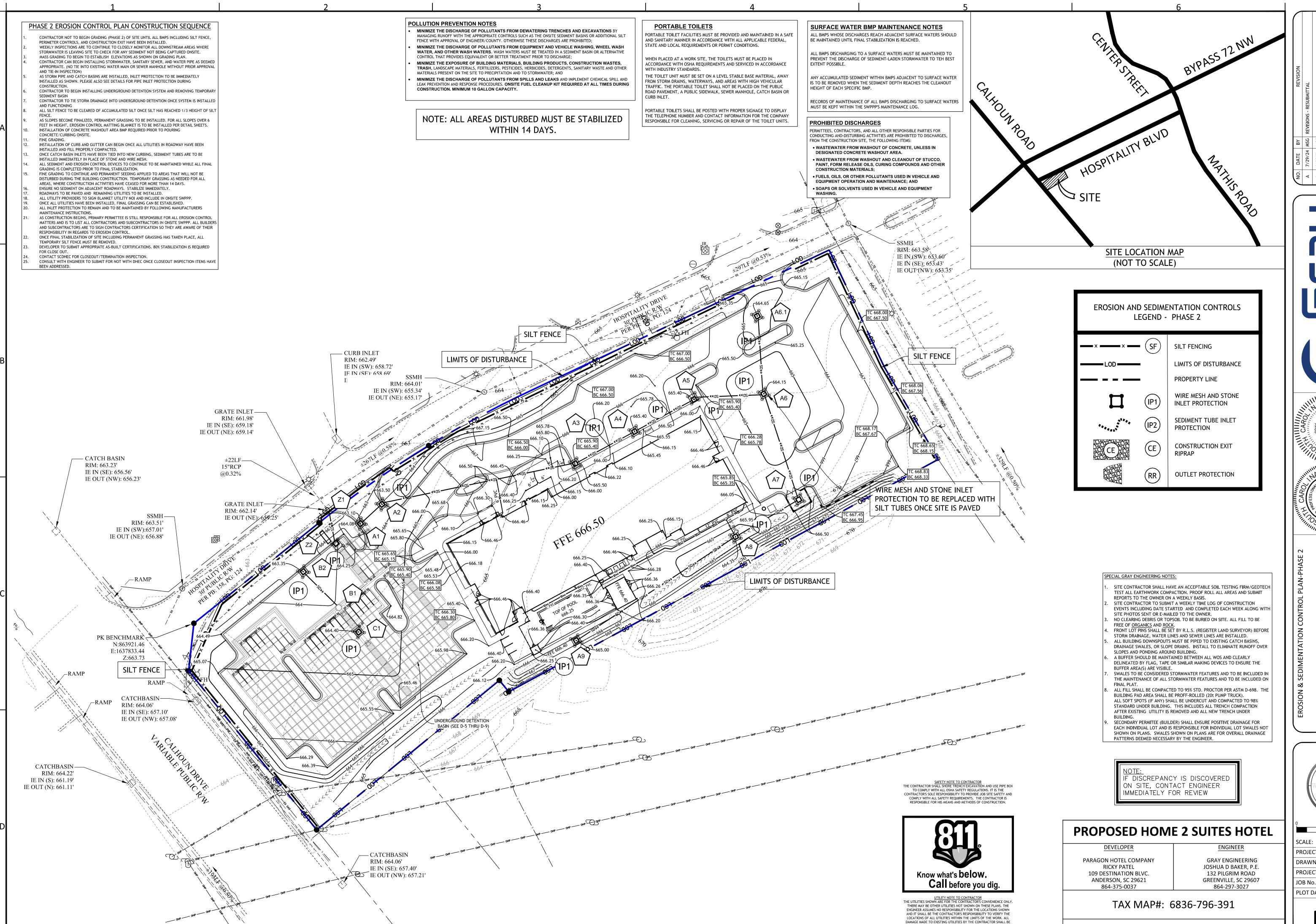
 DRAWN BY:
 MSG

 PROJECT DATE:
 5/3/2023

 JOB No.:
 2023104

 PLOT DATE:
 3/26/25

 SHEET



O. DATE BY REVISION
7/29/24 MSG REVISIONS - RESUBMITTAL
9/20/24 MSG REVISE POOL PATIO & FIRE PROTECTION - IFA
11/22/24 MSG REVISE WATER LINES PER CPW - IFA

Engineering

132 PILGRIM ROAD · GREENVILLE, SC 29607
PH: (864) 297-3027 · FAX: (864) 729-8747
WWW.GRAYENGINEERING.COM

IS THE PART OF THE

THIS DRAWING AND THE BUSED OR REPRODUCED IN ANY WAY OTHER THAN AUTHORIZED BY GRAY ENGINEERING CONSULTANTS, INC. AND SHALL NOT BE USED OR REPRODUCED IN ANY WAY OTHER THAN AUTHORIZED BY GRAY ENGINEERING CONSULTANTS, INC. IN WRITING.

PROPOSED
HOME 2 SUITES
BY HILTON

0 30 60

Feet SCALE: 1" = 30'

PROJECT MANAGER: ZDJ

DRAWN BY: MSG

PROJECT DATE: 5/3/2023

JOB No.: 2023104

PLOT DATE: 3/26/25

SHEET

EC-2

5/26/2023

THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

NO. OF ACRES: _______2.29

3. THE CONTRACTOR SHOULD NOTIFY THE ENGINEERS FOR A REVIEW SHOULD DISCREPANCIES BE DISCOVERED AT THE SITE OR ON THE DRAWINGS BEFORE AND DURING CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE BETWEEN ALL CIVIL DRAWINGS WITH GRADING AND UTILITY CONTRACTORS IN ORDER TO AVOID PROBLEMS DURING CONSTRUCTION

CONTRACTOR TO SCHEDULE A PRECONSTRUCTION MEETING WITH ALL UTILITY COMPANIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE ENGINEER AND UTILITY COMPANIES DURING CONSTRUCTION OF WATER AND SEWER SO PERIODIC OBSERVATIONS CAN BE MADE. CONTRACTOR WILL CERTIFY TO THE ENGINEER IN WRITING THAT WATER AND SEWER LINES HAVE BEEN TESTED AND CONSTRUCTED ACCORDING TO THE ENGINEER'S AND UTILITY COMPANY'S DRAWINGS AND

ALL REFERENCE TO SPECIFICATIONS FOR HIGHWAY CONSTRUCTION OR MATERIALS ARE MADE FROM SOUTH CAROLINA STATE HIGHWAY DEPARTMENT'S STANDARD SPECIFICATION, LATEST EDITION.

THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND WILL NOT BE LIMITED TO NORMAL WORKING HOURS. THE DUTY OF THE ENGINEER TO CONDUCT CONSTRUCTION REVIEW OF THE CONTRACTOR'S PERFORMANCE IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES, IN, ON, OR NEAR THE CONSTRUCTION SITE. THE CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING ALL BARRICADES, WARNING SIGNS, FLASHING LIGHTS, AND TRAFFIC CONTROL DEVICES DURING CONSTRUCTION. THE CONTRACTOR IS TO COMPLY WILL ALL OSHA REGULATIONS, REQUIREMENTS, AND SAFETY MEETING REQUIREMENTS.

TOPSOIL SHALL BE STRIPPED TO A DEPTH AS REQUIRED AND STOCKPILED AS DIRECTED BY THE OWNER'S REPRESENTATIVE.

8. THE CLASSIFICATION OF SOILS INCLUDE: TOPSOIL, FILL MATERIAL, UNSUITABLE MATERIAL, AND ROCK EXCAVATION. THE CLASSIFICATION OF SOILS IS THE RESPONSIBILITY OF THE OWNER'S SOIL TESTING FIRM.

9. ALL EXISTING SLOPES STEEPER THAN 4:1 THAT WILL RECEIVE FILL SHALL BE PLOWED AND SCARIFIED SO NEW FILL WILL BOND WITH EXISTING SURFACE.

10. ALL REINFORCED CONCRETE PIPE (RCP) SHALL BE CLASS III, UNLESS NOTED ON DRAWINGS WITH BELL & SPIGOT ENDS AND SHALL CONFORM TO ALL REQUIREMENTS OF ASTM C 76, LATEST EDITION, INSTALLED WITH FLEXIBLE PLASTIC (BITUMEN) GASKETS AT ALL JOINTS. GASKETS SHALL COMPLY WITH AASHTO M-198 751, TYPE B, AND SHALL BE INSTALLED IN STRICT ACCORDANCE WITH PIPE MANUFACTURER'S RECOMMENDATIONS.

11. ANY REINFORCED CONCRETE PIPE WITH MORE THAN 15 FOOT OF COVER SHALL BE CLASS IV WITH O-RING JOINTS.

12. ALL STORM PIPE LENGTH AND ELEVATIONS (TOPS AND INVERTS) OF STORM DRAINAGE STRUCTURES SHOWN ON THE DRAWINGS ARE APPROXIMATE. CONTRACTOR MAY HAVE TO FIELD ADJUST AS NECESSARY DURING CONSTRUCTION.

 ANY REINFORCED CONCRETE PIPE STEEPER THAN 10 PERCENT MUST HAVE CONCRETE COLLARS. THE NUMBER OF CONCRETE COLLARS AND TYPE OF STORM PIPE WILL BE DETERMINED TOGETHER BY THE CONTRACTOR AND THE ENGINEER

14. MAINTAIN ALL SEDIMENT AND EROSION CONTROL FEATURES THROUGHOUT THE LIFE OF THE PROJECT. INSPECTIONS TO BE EVERY 7 CALENDAR DAYS AND WITHIN 24 HOURS AFTER EACH RAINFALL EVENT THAT PRODUCES 1/2 INCH OR MORE OF PRECIPITATION.

15. ALL AREAS NOT COVERED BY BUILDINGS AND PAVEMENT SHALL RECEIVE TOPSOIL AND BE GRASSED IN ACCORDANCE WITH STATE SPECIFICATIONS (OR GRASSED IN ACCORDANCE WITH OWNER'S SPECIFICATIONS).

16. THE GRADING CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE AWAY FROM BUILDING AT ALL TIMES. CONTRACTOR SHALL BRING TO THE ATTENTION OF THE ENGINEER ANY AREAS THAT MAY NOT DRAIN PROPERLY DURING CONSTRUCTION.

GRADING CONTRACTOR SHALL INCLUDE IN COST ALL CUT/FILL NECESSARY FOR EARTHWORK BALANCE. CONTRACTOR SHALL INCLUDE IN COST ALL WETTING/DRYING OF SOILS NECESSARY TO ACHIEVE COMPACTION PER SPECIFICATIONS.

THE SEQUENCE OF WORK SHALL CONFORM TO THE EROSION CONTROL NARRATIVE.

19. THE CONTRACTOR SHALL CONSTRUCT THE DETENTION POND TO ACT AS A SEDIMENT POND BEFORE OTHER SITE GRADING AND SITEWORK IS BEGUN. THE DETENTION POND AND SEDIMENT CONTROL DURING CONSTRUCTION SHALL COMPLY WITH ALL LOCAL CODES AND REGULATIONS. AFTER ALL SITEWORK IS COMPLETED AND GRASSING ESTABLISHED, THE GRADING CONTRACTOR SHALL REMOVE ALL SILT FROM THE POND AND LEGALLY DISPOSE OF ALL SILT OFF-SITE AT NO ADDITIONAL COST TO THE OWNER.

20. THE CONTRACTOR SHALL RETAIN THE SERVICES OF A REGISTERED LAND SURVEYOR TO PROVIDE TO THE OWNER'S REPRESENTATIVE AN AS-BUILT TOPOGRAPHIC MAP DEPICTING ALL GRADES. ALIGNMENTS, AND STRUCTURAL INFORMATION INVOLVED IN THE DETENTION POND.

21. THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE WHEN INSTRUCTIONS FROM REGULATORY AGENCIES ARE RECEIVED AND COMPLY WITH INSTRUCTIONS AS DIRECTED BY THE OWNER'S REPRESENTATIVE.

22. THE CONTRACTOR SHALL CAREFULLY STUDY AND COMPARE THE CONSTRUCTION DOCUMENTS AND SHALL AT ONCE REPORT TO THE ENGINEER ANY INCONSISTENCIES OR OMISSIONS DISCOVERED. THE CONTRACTOR SHALL TAKE FIELD MEASUREMENTS TO VERIFY THAT ALL LOCATIONS ARE CORRECT PRIOR TO COMMENCING CONSTRUCTION.

23. THE CONTRACTOR SHALL NOT PERFORM ANY WORK ON ANY UTILITIES OR IN ANY PUBLIC RIGHT-OF-WAYS UNTIL HE HAS OBTAINED COPIES OF ALL NECESSARY ENCROACHMENT AND CONSTRUCTION PERMITS.

24. ROCK EXCAVATION SHALL BE CLASSIFIED AS FOLLOWS:

A. MASSIVE ROCK EXCAVATION - ANY MATERIAL WHICH CANNOT BE EXCAVATED WITH A SINGLE TOOTH RIPPER DRAWN BY A CRAWLER TRACTOR HAVING A MINIMUM DRAW BAR RATED AT NOT LESS THAN 53,000 POUNDS (CATERPILLAR D-8 OR EQUIVALENT) AND OCCUPYING AN ORIGINAL VOLUME OF AT LEAST ONE CUBIC YARD OR MORE.

B. TRENCH EXCAVATION - ANY MATERIAL WHICH CANNOT BE EXCAVATED WITH A POWER SHOVEL HAVING THE CAPACITY OF AT LEAST THAT OF A CATERPILLAR 225 AND OCCUPYING AN ORIGINAL VOLUME OF AT LEAST 1/2 CUBIC YARD OR MORE.

25. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RELOCATING ANY EXISTING UTILITIES NECESSARY FOR SITE CONSTRUCTION INCLUDING ALL PERMITS AND FEES.

26. THE CONTRACTOR SHALL VERIFY BENCH MARK LOCATION AND ELEVATION WITH SURVEYOR BEFORE BEGINNING CONSTRUCTION.

27. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EASEMENTS ON THE SITE BEFORE PROCEEDING WITH CONSTRUCTION.

28. IN THE CASE OF A CONFLICT IN SPECIFICATIONS, NOTES, OR DETAILS, THE STRICTER SHALL GOVERN.

ANY UNSUITABLE MATERIAL ENCOUNTERED UNDER PROPOSED ROADWAYS AND BUILDING PADS SHALL BE REMOVED AND REPLACED WITH SUITABLE MATERIAL AT NO COST TO THE OWNER.

CONTRACTOR TO ENSURE POSITIVE DRAINAGE TO PROPOSED DRAINAGE INLETS SO THAT PONDING DOES NOT OCCUR AT INTERSECTION

CONTRACTOR TO CONSTRUCT PERMANENT SWALES AS SHOWN ON PLANS TO DIRECT STORMWATER TO

PROPOSED CATCH BASINS/INLETS.

THE NOTES, THE MORE STRINGENT NOTE SHALL APPLY.

SHOULD THE CONTRACTOR ENCOUNTER CONFLICTING SITEWORK

MANAGEMNENT STRATEGIES

CONSTRUCTION WILL BE SEQUENCED SO THAT GRADING OPERATIONS CAN BEGIN AND END AS QUICKLY AS POSSIBLE.

SEDIMENT TRAPPING MEASURES WILL BE INSTALLED AS A FIRST STEP IN GRADING AND WILL BE SEEDED AND MULCHED IMMEDIATELY FOLLOWING INSTALLATION.

TEMPORARY SEEDING OR OTHER STABILIZATION WILL FOLLOW IMMEDIATELY AFTER GRADING.

STOCKPILE HEIGHTS MUST NOT EXCEED 25 FEET. STOCKPILE SLOPES MUST BE 2:1 OR FLATTER.

THE JOB SUPERINTENDENT SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL EROSION AND SEDIMENT

AFTER ACHIEVING ADEQUATE STABILIZATION, THE TEMPORARY E&S CONTROLS WILL BE CLEANED UP AND REMOVED, AND THE SEDIMENT BASINS WILL BE CLEANED OUT AND CONVERTED TO A PERMANENT

SCDHEC STANDARD NOTES

1. IF NECESSARY, SLOPES, WHICH EXCEED EIGHT (8) VERTICAL FEET SHOULD BE STABILIZED WITH SYNTHETIC OR VEGETATIVE MATS, IN ADDITION TO HYDROSEEDING. IT MAY BE NECESSARY TO INSTALL TEMPORARY SLOPE DRAINS DURING CONSTRUCTION. TEMPORARY BERMS MAY BE NEEDED UNTIL THE SLOPE IS BROUGHT TO GRADE.

2. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN FOURTEEN (14) DAYS AFTER WORK HAS CEASED, EXCEPT AS STATED BELOW.

• WHERE STABILIZATION BY THE 14TH DAY IS PRECLUDED BY SNOW COVER OR FROZEN GROUND CONDITIONS STABILIZATION MEASURES MUST BE INITIATED AS SOON AS PRACTICABLE.

 WHERE CONSTRUCTION ACTIVITY ON A PORTION OF THE SITE IS TEMPORARILY CEASED, AND EARTH-DISTURBING ACTIVITIES WILL BE RESUMED WITHIN 14 DAYS, TEMPORARY STABILIZATION MEASURES DO NOT HAVE TO BEINITIATED ON THAT PORTION OF THE SITE.

3. ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSPECTED ONCE CALENDAR EVERY WEEK, IF PERIODIC INSPECTION OR OTHER INFORMATION INDICATES THAT A BMP HAS BEEN INAPPROPRIATELY, OR INCORRECTLY, THE PERMITTEE MUST ADDRESS THE NECESSARY REPLACEMENT OR MODIFICATION REQUIRED TO CORRECT THE BMP WITHIN 48 HOURS OF IDENTIFICATION.

4. PROVIDE SILT FENCE AND/OR OTHER CONTROL DEVICES, AS MAY BE REQUIRED, TO CONTROL SOIL EROSION DURING UTILITY CONSTRUCTION. ALL DISTURBED AREAS SHALL BE CLEANED, GRADED, AND STABILIZED WITH GRASSING IMMEDIATELY AFTER THE UTILITY INSTALLATION. FILL, COVER, AND TEMPORARY SEEDING AT THE END OF EACH DAY ARE RECOMMENDED. IF WATER IS ENCOUNTERED WHILE TRENCHING, THE WATER SHOULD BE FILTERED TO REMOVE SEDIMENT BEFORE BEING PUMPED BACK INTO ANY WATERS OF THE STATE.

5. ALL EROSION CONTROL DEVICES SHALL BE PROPERLY MAINTAINED DURING ALL PHASES OF CONSTRUCTION UNTIL THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES AND ALL DISTURBED AREAS HAVE BEEN STABILIZED. ADDITIONAL CONTROL DEVICES MAY BE REQUIRED DURING CONSTRUCTION IN ORDER TO CONTROL EROSION AND/OR OFFSITE SEDIMENTATION. ALL TEMPORARY CONTROL DEVICES SHALL BE REMOVED ONCE CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED.

6. THE CONTRACTOR MUST TAKE NECESSARY ACTION TO MINIMIZE THE TRACKING OF MUD ONTO PAVED ROADWAY (S) FROM CONSTRUCTION AREAS AND THE GENERATION OF DUST. THE CONTRACTOR SHALL DAILY REMOVE MUD/SOIL FROM PAVEMENT, AS MAY BE REQUIRED.

7. RESIDENTIAL SUBDIVISIONS REQUIRE EROSION CONTROL FEATURES FOR INFRASTRUCTURE AS WELL AS FOR INDIVIDUAL LOT CONSTRUCTION. INDIVIDUAL PROPERTY OWNERS SHALL FOLLOW THESE PLANS DURING CONSTRUCTION OR OBTAIN APPROVAL OF AN INDIVIDUAL PLAN IN ACCORDANCE WITH S.C REG. 72-300 ET SEQ. AND SCR100000.

8. TEMPORARY DIVERSION BERMS AND/OR DITCHES WILL BE PROVIDED AS NEEDED DURING CONSTRUCTION TO PROTECT WORK AREAS FROM UPSLOPE RUNOFF AND/OR TO DIVERT SEDIMENT-LADEN WATER TO APPROPRIATE TRAPS OR STABLE OUTLETS.

9. ALL WATERS OF THE STATE (WOS), INCLUDING WETLANDS, ARE TO BE FLAGGED OR OTHERWISE CLEARLY MARKED IN THE FIELD. A DOUBLE ROW OF SILT FENCE IS TO BE INSTALLED IN ALL AREAS WHERE A 50-FOOT BUFFER CAN'T BE MAINTAINED BETWEEN THE DISTURBED AREA AND ALL WOS. A 10-FOOT BUFFER SHOULD BE MAINTAINED BETWEEN THE LAST ROW OF SILT FENCE AND ALL WOS.

10. LITTER, CONSTRUCTION DEBRIS, OILS, FUELS, AND BUILDING PRODUCTS WITH SIGNIFICANT POTENTIAL FOR IMPACT (SUCH AS STOCKPILES OF FRESHLY TREATED LUMBER) AND CONSTRUCTION CHEMICALS THAT COULD BE EXPOSED TO STORMWATER MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE IN STORM WATER DISCHARGES.

11. A COPY OF THE SWPPP, INSPECTIONS RECORDS, AND RAINFALL DATA MUST BE RETAINED AT THE CONSTRUCTION SITE OR A NEARBY LOCATION EASILY ACCESSIBLE DURING NORMAL BUSINESS HOURS, FROM THE DATE OF COMMENCEMENT OF CONSTRUCTION ACTIVITIES TO THE DATE THAT FINAL STABILIZATION IS REACHED.

12. INITIATE STABILIZATION MEASURES ON ANY EXPOSED STEEP SLOPE (3H:1V OR GREATER) WHERE LAND-DISTURBING ACTIVITIES HAVE PERMANENTLY OR TEMPORARILY CEASED. AND WILL NOT RESUME FOR A PERIOD OF 7 CALENDAR DAYS.

13. MINIMIZE SOIL COMPACTION AND, UNLESS INFEASIBLE, PRESERVE TOPSOIL

14. MINIMIZE THE DISCHARGE OF POLLUTANTS FROM EQUIPMENT AND VEHICLE WASHING. WHEEL WASH WATER, AND OTHER WASH WATERS. WASH WATERS MUST BE TREATED IN A SEDIMENT BASIN OR ALTERNATIVE CONTROL THAT PROVIDES EQUIVALENT OR BETTER TREATMENT PRIOR TO DISCHARGE:

15. MINIMIZE THE DISCHARGE OF POLLUTANTS FROM DEWATERING OF TRENCHES AND EXCAVATED AREAS. THESE DISCHARGES ARE TO BE ROUTED THROUGH APPROPRIATE BMPS (SEDIMENT BASIN, FILTER BAG, ETC.) 16. THE FOLLOWING DISCHARGES FROM SITES ARE PROHIBITED:

WASTEWATER FROM WASHOUT OF CONCRETE, UNLESS MANAGED BY AN APPROPRIATE CONTROL WASTEWATER FROM WASHOUT AND CLEANOUT OF STUCCO. PAINT, FORM RELEASE OILS, CURING

COMPOUNDS AND OTHER CONSTRUCTION MATERIALS; FUELS, OILS, OR OTHER POLLUTANTS USED IN VEHICLE AND EQUIPMENT OPERATION AND MAINTENANCE: AND SOAPS OR SOLVENTS USED IN VEHICLE AND EQUIPMENT WASHING.

17. AFTER CONSTRUCTION ACTIVITIES BEGIN, INSPECTIONS MUST BE CONDUCTED AT A MINIMUM OF AT LEAST ONCE EVERY CALENDAR WEEK AND MUST BE CONDUCTED UNTIL FINAL STABILIZATION IS REACHED ON ALL AREAS OF THE CONSTRUCTION SITE.

18. IF EXISTING BMPS NEED TO BE MODIFIED OR IF ADDITIONAL BMPS ARE NECESSARY TO COMPLY WITH THE REQUIREMENTS OF THIS PERMIT AND/OR SC'S WATER QUALITY STANDARDS, IMPLEMENTATION MUST BE COMPLETED BEFORE THE NEXT STORM EVENT WHENEVER PRACTICABLE. IF IMPLEMENTATION BEFORE THE NEXT STORM EVENT IS IMPRACTICABLE, THE SITUATION MUST BE DOCUMENTED IN THE SWPPP AND ALTERNATIVE BMPS MUST BE IMPLEMENTED AS SOON AS REASONABLY POSSIBLE.

19. A PRE-CONSTRUCTION CONFERENCE MUST BE HELD FOR EACH CONSTRUCTION SITE WITH AN APPROVED ON-SITE SWPPP PRIOR TO THE IMPLEMENTATION OF CONSTRUCTION ACTIVITIES. FOR NON-LINEAR PROJECTS THAT DISTURB 10 ACRES OR MORE THIS CONFERENCE MUST BE HELD ON-SITE UNLESS THE DEPARTMENT HAS APPROVED OTHERWISE.

SEEDING DATES AND RATES OF APPLICATION

PERFORM SEEDING DURING THE PERIODS AND AT THE RATES SPECIFIED IN THE SEEDING TABLES. DO NOT USE TEMPORARY COVER BY SEEDING OR PERMANENT SEEDING FOR PROJECTS WHEN:

•THE GROUND IS FROZEN AND/OR WHEN THE 10-DAY FORECASTED LOW TEMPERATURE REMAINS BELOW 35 DEGREES FAHRENHEIT; •THE GROUND IS EXCESSIVELY WET; OR

•THE GROUND IS EXCESSIVELY DRY (PERIODS OF DROUGHT) UNLESS

DURING PERIODS OF ADVERSE CONDITIONS, USE TEMPORARY COVER BY

SEEDBED PREPARATION

•ENSURE THAT THE AREAS RECEIVING PERMANENT SEEDING ARE UNIFORM AND CONFORM TO THE FINISHED GRADE OF THE PROJECT. •PERFORM MINOR SHAPING AND EVENING OF UNEVEN AND ROUGH AREAS OUTSIDE OF THE GRADED AREA IN ORDER TO PROVIDE FOR MORE EFFECTIVE EROSION CONTROL AND FOR EASE OF SUBSEQUENT MOWING

•LOOSEN THE SEEDBED (INCLUDING CUT SLOPES) TO A MINIMUM DEPTH OF THREE (3) INCHES BEFORE INITIATING PERMANENT SEEDING AND TEMPORARY SEEDING.

•AN ACCEPTABLE METHOD OF PREPARING THE SEEDBED ON SLOPES IS VERTICALLY TRACKING THE SEEDBED UP AND SEEDBED UP AND DOWN THE SLOPE WITH PROPER EQUIPMENT.

•REMOVE STONES LARGER THAN TWO AND ONE-HALF (21/2) INCHES IN ANY DIMENSION, LARGE DIRT CLODS, ROOTS, OR OTHER DEBRIS BROUGHT TO THE SURFACE.

•USE COMPOST IF GOOD SEEDBED MATERIAL IS NOT LOCATED ON SITE OR RESULTS OF THE SOIL TEST SHOW THE SEEDBED IS EXCESSIVELY NUTRIENT DEFICIENT TO THE EXTENT OF REQUIRING COSTLY FERTILIZER ADDITIONS AND OR HAVE EXCESSIVELY LOW PH VALUES (LOWER THAN

• CONSIDER THE USE OF MECHANICAL SEED DRILLS TO PERFORM PERMANENT SEEDING ON AREAS WHERE TEMPORARY SEEDING OR TEMPORARY COVER BY MULCH WAS PREVIOUSLY UTILIZED.

REQUIRED FOR ALL PERMANENT SEEDING, TEMPORARY SEEDING, AND TEMPORARY COVER APPLICATIONS. DO NOT USE MULCH IN AREAS WHERE CONCENTRATED FLOW IS EXPECTED. USE HECP MULCH FOR TEMPORARY SEEDING AND TEMPORARY COVER APPLICATIONS WHEN THE APPLICATION AREA WILL REQUIRE ADDITIONAL GRADING PRIOR TO PERMANENT SEEDING. DO NOT USE EROSION CONTROL BLANKETS (ECB) OR TURF REINFORCEMENT MATTING (TRM) IN THIS SITUATION.

WOOD CHIP MULCH

WOOD CHIP MULCH IS NOT ACCEPTABLE FOR SEEDING APPLICATIONS. IF WOOD CHIP MULCH IS USED FOR TEMPORARY COVER BY MULCH, IT MUST BE REMOVED PRIOR TO PERFORMING PERMANENT SEEDING

STRAW OR HAY MULCH WITH TACKIFIER USE MATERIAL THAT IS CERTIFIED WEED. DO NOT USE ON SLOPES STEEPER THAN 4H:1V. ANCHOR USING ONE OF THE FOLLOWING TACKING

•ORGANIC OR CHEMICAL TACKIFIER •HYDRAULIC STRAW TACKIFIERS • EMULSIFIED ASPHALT

APPLYING STRAW OR HAY MULCH UNIFORMLY APPLY MATERIAL AT THE RATE OF 2,000 POUNDS PER ACRE.

ONLY USE FROM PRODUCER THAT PARTICIPATES IN THE USCC STA PROGRAM. DO NOT USE MATERIALS THAT HAVE BEEN TREATED WITH CHEMICAL PRESERVATIVES AS A COMPOST MULCH. DO NOT USE MIXED MUNICIPAL SOLID WASTE COMPOST.

HYDRAULIC EROSION CONTROL PRODUCTS (HECPS)

USE AS AN ALLOWABLE MULCH FOR TEMPORARY COVER BY MULCH, TEMPORARY COVER BY SEEDING OR PERMANENT COVER BY SEEDING APPLICATIONS. DO NOT USE AS A CHANNEL LINER OR FOR AREAS RECEIVING CONCENTRATED FLOW.

TEMPORARY EROSION CONTROL BLANKETS (ECB) AND TURE REINFORCEMENT MATTING (TRM) CONSIDER FOR PERMANENT SEEDING APPLICATION AREAS WITH STEEP

SLOPES OR AREAS WHERE THERE IS A SIGNIFICANT EROSION PROBLEM OR POTENTIAL FOR EROSION. USE IN AREAS WHERE CONCENTRATED FLOW IS EXPECTED. DO NOT USE FOR TEMPORARY SEEDING APPLICATIONS WHEN THE APPLICATION AREAS WILL REQUIRE ADDITIONAL GRADING OR MODIFICATIONS PRIOR TO PERMANENT SEEDING.

PROTECTION OF STRUCTURES

COVER ANY PARTS OF BRIDGES, CULVERTS, GUARDRAILS, SIGNS, SIDEWALKS, CURB AND GUTTERS, CATCH BASINS, PIPE ENDS, AND OTHER STRUCTURES AS NECESSARY TO PREVENT DISCOLORATION BEFORE SPRAYING HECPS, ORGANIC OR CHEMICAL TACKIFIERS.

Non Slope Areas

		Spring / Summer Non SI	ope Areas (during es	tablishme	nt, mow w	hen	Mil	let i	reac	hes	s 18	-inc	hes	in	heig	0
				Planting	Planting				Planting Dates							
D		Common Name ⁴	Botanical Name	Rate (lbs/acre)	Rate (lbs/1000sf)	Jan	Feb	Mar	Apr	May	Jun	Inc	Aug	Sep	Oct	
G	(Common Bermudagrass ¹ (hulled = hull absent)	Cynodon dactylon	50	1.15				•	•	•	•				
	9	White Clover	Trifolium repens	5	0.11			•	•				•			
	9	Browntop Millet	Panicum ramosum	10	0.23				•	•	•	•	•			

			Planting	Planting Planting		Planting Dates										
	Common Name ⁴	Botanical Name	Rate (lbs/acre)	Rate (lbs/1000sf)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	Tall Fescue (KY-31)	Festuca arundinacea	50	1.15	•	•	•	•					•	•	•	•
- Commercial Control	Common Bermudagrass ¹ (unhulled = hull present)	Cynodon dactylon	15	0.34	•	•	•					•	•	•	•	•
-	White Clover	Trifolium repens	5	0.11		•	•	•					•	•	•	
-	Crimson Clover ²	Trfolium incarnatum	20	0.46	•	•	•	•					•	•	•	•
	Rye Grain ³	Secale cereale	15	0.34	•	•	•	•					•	•	•	•

Common Bermudagrass: Do not use Giant Bermudagrass(NK-37).

Only use pre-inoculated legumes or use an appropriate inoculant with the seed at planting. ³ Mow Rye Grain (no lower than 3 inches) once it reaches a height of 6-8 inches to reduce competitiveness with permanent vegetation.

⁴ If the Common Name of the seed listed in the Tables is not available, use seed with the listed Botanical Name.

Road Medians & Shoulders

			Planting	Planting	nt, mow when Millet reaches 18-inches in he Planting Dates											
	Common Name ⁴	Botanical Name	Rate	Rate (lbs/1000sf)	Jan	Feb	Mar	Apr	May	Jun	Inc	Aug	Sep	Oct	Nov	Dec
	Common Bermudagrass ¹ (hulled = hull absent)	Cynodon dactylon	25	0.57				•	•	•	•					
)	Browntop Millet	Panicum ramosum	10	0.23				•	•	•	•	•				

Fall / Winter Road Median & Shoulders (during establishment, mow when Rye reaches 6 to 8-inches in height) Rate Common Name Tall Fescue (KY-31) 50 1.15 • • • . . . Festuca aruninacea vnodon dactylor unhulled = hull presen 0.46 Crimson Clover

Common Bermudagrass: Do not use Giant Bermudagrass(NK-37).

Secale cereale

Only use pre-inoculated legumes or use an appropriate inoculant with the seed at planting. ³ Mow Rye Grain (no lower than 3 inches) once it reaches a height of 6-8 inches to reduce competitiveness with permanent vegetation. ⁴ If the Common Name of the seed listed in the Tables is not available, use seed with the listed Botanical Name.

15 0.34 • • •

Spring / Summer Slopes (during establishment, mow when Millet reaches 18-inches in height. After establishment, only mow at end of winter season)

	Planting Planting Planting Planting Planting Planting Dates															
			Planting	Planting					Pla	ntin	g Da	tes				
	Common Name⁴	Botanical Name	Rate (lbs/acre)	Rate (lbs/1000sf)	Jan Mar Apr Jul Jul Aug Sep Oct		Oct	Nov	Dec							
	Tall Fescue (KY-31)	Festuca aruninacea	50	1.15			•	•								
Pick 1	Bahiagrass	Paspalum notatum	30	0.69			•	•	•	•	•					
	Common Bermudagrass ¹ (hulled = hull absent)	Cynodon dactylon	15	0.34				•	•	•	•					
V	White Clover	Trifolium repens	5	0.11			•	•				•				
\bigcirc	Weeping Lovegrass	Erograstis curvula	5	0.11			•	•	•	•	•	•				
V	Hairy Vetch ²	Vicia villosa	10	0.23				•								
V	Browntop Millet	Panicum ramosum	10	0.23				•	•	•	•	•				

Fall / Winter Slopes (during establishment, mow when Rye reaches 6 to 8-inches in height After establishment, only mow at end of winter season)

	Arter establishment, on	y mow at end of wint	ei seasoi	'/												
			Planting	Planting					Pla	ntin	g Da	tes				
	Common Name ⁴	Botanical Name	Rate (lbs/acre)	Rate (lbs/1000sf)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
V	Tall Fescue (KY-31)	Festuca aruninacea	50	1.15	•	•	•						•	•	•	•
V	Common Bermudagrass ¹ (unhulled = hull present)	Cynodon dactylon	15	0.34	•	•	•						•	•	•	•
V	White Clover ²	Trifolium repens	5	0.11		•	•						•	•	•	
Y	Weeping Lovegrass	Erograstis curvula	5	0.11	•	•	•						•	•	•	•
Pick 1	Crimson Clover ²	Trfolium incarnatum	20	0.46	•	•	•						•	•	•	•
Pic	Hairy Vetch ²	Vicia villosa	10	0.23	•	•	•						•	•	•	•
V	Rye Grain ³	Secale cereale	15	0.34	•	•	•						•	•	•	•

¹ Common Bermudagrass: Do not use Giant Bermudagrass(NK-37). Only use pre-inoculated legumes or use an appropriate inoculant with the seed at planting.

³ Mow Rye Grain (no lower than 3 inches) once it reaches a height of 6-8 inches to reduce competitiveness with permanent vegetation. ⁴ If the Common Name of the seed listed in the Tables is not available, use seed with the listed Botanical Name

EROSION CONTROL NOTES

SILT BASINS TO BE CLEANED OUT AFTER EACH RAIN BEFORE GRASS IS ESTABLISHED. AFTER GRASS IS ESTABLISHED. AS REQUIRED TO PROVIDE MINIMUM OF 75% OF REQUIRED VOLUME.

AND MAINTENANCE). GENERAL CONTRACTOR SHALL HAVE SUPERVISORY RESPONSIBILITIES OVER GRADING 3. ALL RIP-RAP SHALL BE DUMPED RIP-RAP IN ACCORDANCE WITH STATE HIGHWAY DEPARTMENT STANDARD

SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, LATEST EDITION. PIECES SHALL BE NO LARGER THAN 24 INCHES. THIS WORK SHALL ALSO CONSIST OF PLACING AN APPROVED GEOTEXTILE FABRIC, CAPABLE OF REDUCING SOIL EROSION. ON A PREPARED SLOPE BENEATH THE RIP-RAP. 4. ALL SLOPES THAT ARE 3:1 OR STEEPER SHALL BE STABILIZED WITH EROSION CONTROL FABRIC (JUTE MATTING

2. GRADING CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SEDIMENT CONTROL MEASURES (IMPLEMENTATION

HIGHWAY CONSTRUCTION. LATEST EDITION. ALL SLOPES ARE TO BE MAINTAINED UNTIL A HEALTHY STAND OF 5. GRASSING SHALL BEGIN AS SOON AS GRADING IS COMPLETED. TEMPORARY GRASSING MAY BE REQUIRED SHOULD EMBANKMENTS BE UNDER CONSTRUCTION FOR EXTENDED PERIODS.

9. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FOR HIS BORROW AREA

OR EQUAL) IN ACCORDANCE WITH THE STATE HIGHWAY DEPARTMENT STANDARD SPECIFICATIONS FOR

6. FAILURE TO COMPLETE AND MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN THE ISSUANCE OF A STOP WORK ORDER UNTIL SUCH ITEMS ARE INSTALLED. ALL TEMPORARY SILT BASINS WILL BE REMOVED AT PROJECT COMPLETION AND PERMANENTLY GRASSED. 8. ALL EXCAVATED MATERIALS TO BE USED ON SITE. ALL DEMOLISHED MATERIALS AND WASTE MATERIAL TO BE

CONSTRUCTION TO PROTECT WORK AREAS FROM UPSLOPE RUNOFF AND/OR TO DIVERT SEDIMENT LADEN WATER TO APPROPRIATE TRAPS OR STABLE OUTLETS.

TEMPORARY DIVERSION BERMS AND/OR DITCHES WILL BE PROVIDED DURING

CONTRACTOR TO ENSURE ALL STORM DRAINAGE PIPE OUTSIDE ROAD R/W HAS A MINIMUM 1' OF COVER. CONTRACTOR TO CONTACT SITE ENGINEER IF A PROBLEM SHOULD OCCUR.

CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES CAUSED TO EXISTING ROADS/DRIVES AS A RESULT OF CONSTRUCTION TRAFFIC AND REPAIR THEM AS REQUIRED. COORDINATE ALL WORK WITH OCONEE COUNTY.

MAINTENANCE OF STRUCTURAL CONTROLS

SEEDED AS NEEDED

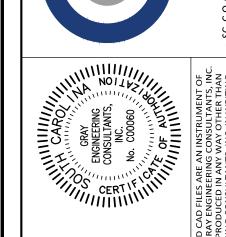
IN GENERAL, ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE CHECKED DAILY AND AFTER EACH SIGNIFICANT RAINFALL. THE FOLLOWING ITEMS WILL BE CHECKED IN PARTICULAR:

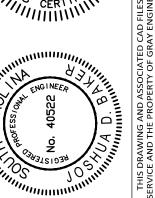
THE SEDIMENT TRAPS WILL BE CLEANED OUT WHEN THE LEVEL OF SEDIMENT BUILDUP REACHES THE CLEANOUT POINT INDICATED ON THE

THE SEDIMENT TRAPS WILL BE CHECKED REGULARLY FOR SEDIMENT THE GRAVEL OUTLETS WILL BE CHECKED REGULARY FOR SEDIMENT BUILDUP WHICH WILL PREVENT DRAINAGE. IF THE GRAVEL IS

CLOGGED BY SEDIMENT, IT SHALL BE REMOVED AND CLEANED OR THE SILT FENCE BARRIER WILL BE CHECKED AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF A RAINFALL EXCEEDING 0.5 INCHES. FOR UNDERMINING OR DETERIORATION OF THE FABRIC. SEDIMENT SHALL

BE REMOVED WHEN THE LEVEL OF SEDIMENT DEPOSITION REACHES ONE-QUARTER TO THE TOP OF THE BARRIER. THE SEEDED AREAS WILL BE CHECKED AT LEAST ONCE EVERY SEVEN (7) CALENDA DAYS AND WITHIN 24 HOURS OF A RAINFALL EXCEEDING 0.5 INCHES TO ENSURE THAT A GOOD STAND IS MAINTAINED. AREAS SHOULD BE FERTILIZED AND RE-

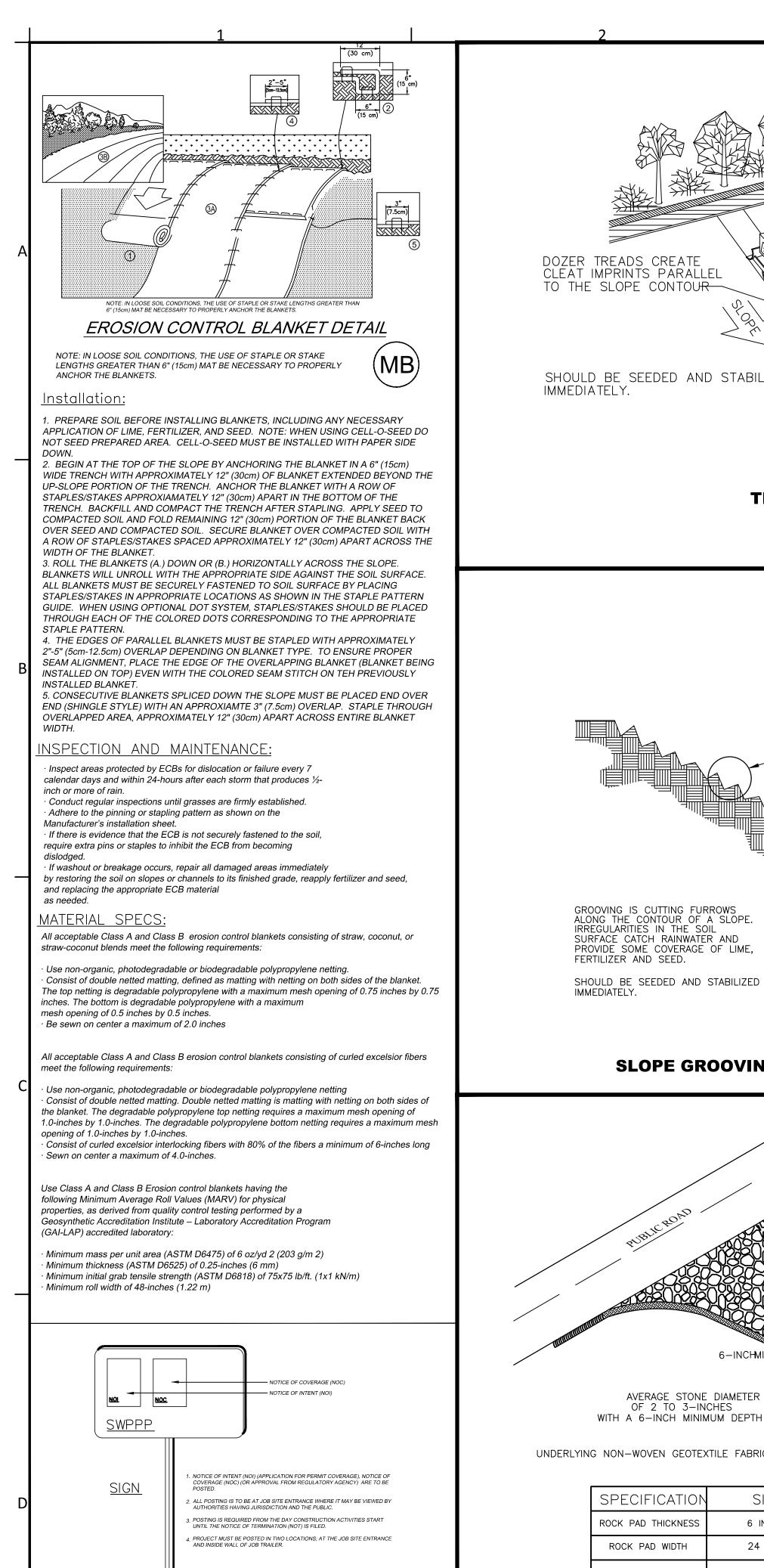




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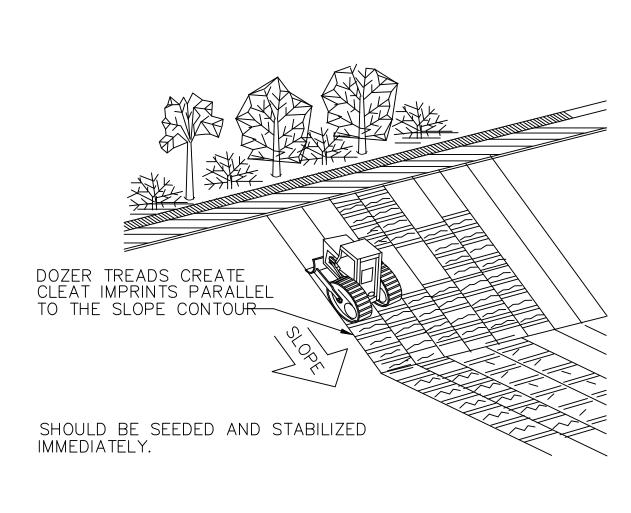
PROJECT MANAGER: DRAWN BY: MSG PROJECT DATE: 5/3/2023 JOB No.:

2023104 .OT DATE: SHEET



JOB SITE PERMIT POSTING DETAIL

(NOT TO SCALE)



TRACKING

South Carolina Department of Health and Environmental Contro

South Carolina Department of

Health and Environmental Control

SLOPE GROOVING

TRACKING EC-01 Page 1 ANDARD DRAWING NO.

STRAW BALE BARRIER CONCRETE WASHOUT CONCRETE WASHOUT LETTERS A MINIMUM OF 5" IN HEIGHT CONCRETE WASHOUT SIGN DETAIL STAPLES 1/8" DIA. 4" STAPLE -(2 PER BALE WOOD OR METAL NATIVE MATERIAL STAKES (2 PER BALE) SECTION B-B **PLAN** TYPE "ABOVE GRADE WITH STRAW BALES NOTES:

50% FULL.

1. ACTUAL LAYOUT DETERMINED IN FIELD.

2. INSTALL CONCRETE WASHOUT SIGN (24"X24", MINIMUM) WITHIN 30' OF THE TEMPORARY CONCRETE ACCESSING THE WASHOUT. WASHOUT FACILITY.

3. TEMPORARY WASHOUT AREA MUST BE AT LEAST NECESSARY ALONG ONE SIDE OF THE WASHOUT 50' FROM A STORM DRAIN, CREEK BANK OR PERIMETER CONTROL.

5. THE KEY TO FUNCTIONAL CONCRETE WASHOUTS IS WEEKLY INSPECTIONS, ROUTINE MAINTENANCE, AND REGULAR CLEAN OUT.

TEMPORARY STOCKPILE AREA

STOCKPILE AREA

ORIGINAL GROUND SURFACE

4. CLEAN OUT CONCRETE WASHOUT AREA WHEN

6. SILT FENCE SHALL BE INSTALLED AROUND PERIMETER OF CONCRETE WASHOUT AREA EXCEPT FOR THE SIDE UTILIZED FOR

7. A ROCK CONSTRUCTION ENTRANCE MAY BE TO PROVIDE VEHICLE ACCESS.

South Carolina Department of Health and Environmental Contro **CONCRETE WASHOUT** STRAW BALES OR ABOVE GROUND

South Carolina Department of

Health and Environmental Control

TEMPORARY STOCKPILE

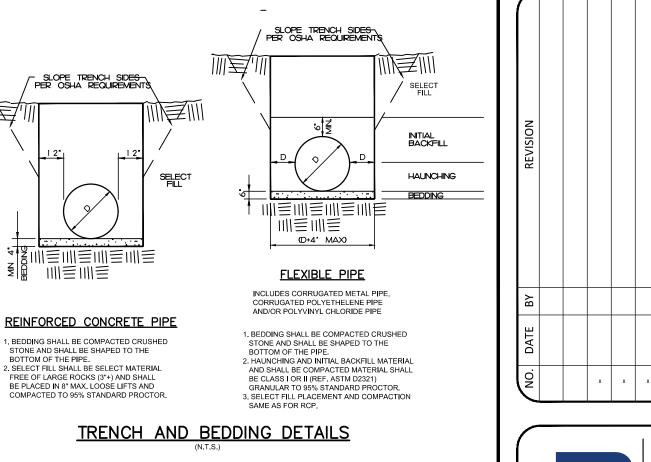
tandard drawing no. SC-15 PAGE 1 of 1

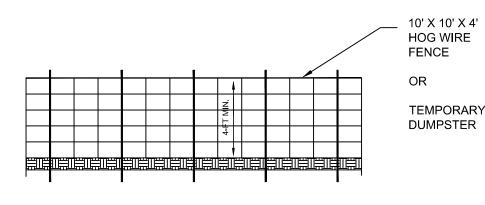
ANDARD DRAWING NO. RC-07 PAGE 1 of NOT TO SCALE FEBRUARY 2014

DATE

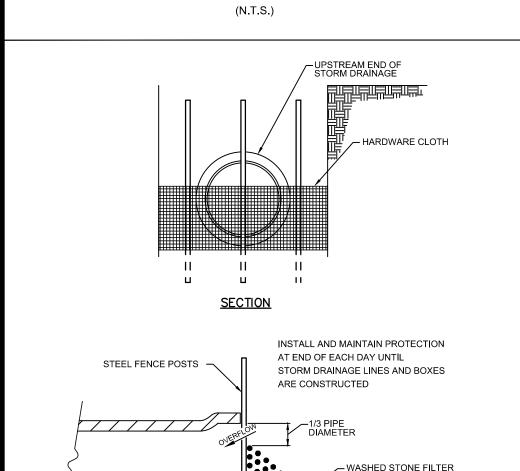
SILT FENCE -

(SEE DETAIL)





CONSTRUCTION DEBRIS ENCLOSUE



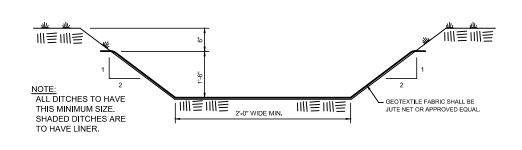
TEMPORARY STORM DRAINAGE PROTECTION (DURING CONSTRUCTION) (NOT TO SCALE)

1. APPLY LIME, FERTILIZER AND SEED <u>BEFORE</u> LAYING THE NET OR MAT. IF OPEN-WEAVE NETTING IS USED, LIME MAY BE INCORPORATED BEFORE INSTALLING THE NET AND FERTILIZER

2. START LAYING THE NET FROM THE TOP OF THE CHANNEL OR SLOPE AND UNROLL IT DOWN THE GRADE. ALLOW NETTING TO LAY LOOSELY ON THE SOIL BUT WITHOUT WRINKLES-DO

3. TO SECURE THE NET, BURY THE UPSLOPE END IN A SLOT OR TRENCH NO LESS THAN 6" DEEP, COVER WITH SOIL, AND TAMP FIRMLY. STAPLE THE NET EVERY 12" ACROSS THE TOP END AND EVERY 3' AROUND THE EDGES AND BOTTOM. WHERE 2 STRIPS OF NET ARE LAID SIDE BY SIDE, THE ADJACENT EDGES SHOULD BE OVERLAPPED 3" AND STAPLED TOGETHER. EACH STRIP OF NETTING SHOULD ALSO BE STAPLED DOWN THE CENTER, EVERY 3'. DO $\underline{\mathsf{NOT}}$ STRETCH THE NET WHEN APPLYING STAPLES.

4. TO JOIN 2 STRIPS, CUT A TRENCH TO ANCHOR THE END OF THE NEW NET. OVERLAP THE END OF THE PREVIOUS ROLL 18", AND STAPLE EVERY 12" JUST BELOW THE ANCHOR SLOT.



HARDWARE CLOTH

PERMANENT DITCH DETAIL

PROJECT MANAGER: DRAWN BY: MSG 5/3/2023 PROJECT DATE: JOB No.: 2023104 PLOT DATE: SHEET

PROPOSED OME 2 SUITE BY HILTON

OM BY

andard drawing no. EC-03 Page 1 **SLOPE GROOVING** PPROVED BY: - EDGES SHALL BE TAPERED OUT TOWARDS ROAD TO PREVENT TRACKING OF MUD ON THE EDGES AVERAGE STONE DIAMETER OF 2 TO 3-INCHES WITH A 6-INCH MINIMUM DEPTH-PLAN SYMBOL UNDERLYING NON-WOVEN GEOTEXTILE FABRIC -SPECIFICATION South Carolina Department of ROCK PAD THICKNESS 6 INCHES Health and Environmental Control ROCK PAD WIDTH 24 FEET **CONSTRUCTION ENTRANCE** ROCK PAD LENGTH 100 FEET

D = 2-3 INCHES

ROCK PAD STONE SIZE

CONSTRUCTION ENTRANCE - GENERAL NOTES 1. Stabilized construction entrances should be used at all points where traffic will egress/ingress a construction site onto a public road or any impervious surfaces, such as parking lots. 2. Install a non-woven geotextile fabric prior to placing any

ALONG CONTOURS OF THE DOWN-GRADIENT AREA.

STABILIZATION MEASURES MUST BE IMPLEMENTED.

REMOVED OR PERMANENTLY STABILIZED.

6. The edges of the entrance shall be tapered out towards the road to prevent tracking at the edge of the entrance.

7. Divert all surface runoff and drainage from the stone pad to a sediment trap or basin or other sediment trapping structure.

1. The key to functional construction entrances is weekly inspections, routine maintenance, and regular sediment removal.

3. During regular inspections, check for mud and sediment

and pad integrity. Inspection frequencies may need to be more

4. Reshape the stone pad as necessary for drainage and runoff

5. Wash or replace stones as needed and as directed by site inspector. The stone in the entrance should be washed or replaced whenever the entrance fails to reduce the amount of mud being carried off-site by vehicles. Frequent washing will extend the useful life of stone pad.

adjacent impervious surfaces by brushing or sweeping. Flushing should only be used when the water can be discharged to a sediment trap or basin.

7. During maintenance activities, any broken pavement should be

8. Construction entrances should be removed after the site has

South Carolina Department of Health and Environmental Control **CONSTRUCTION ENTRANCE** standard drawing no. SC-06 PAGE 2 of 2

tandard drawing no. SC-06 PAGE 1 of 2 NOT TO SCALE FEBRUARY 2014
DATE

stone. 3. Install a culvert pipe across the entrance when needed to provide positive drainage.

4. The entrance shall consist of 2-inch to 3-inch D50 stone placed at a minimum depth of 6—inches.

Minimum dimensions of the entrance shall be 24-feet wide by 100-feet long, and may be modified as necessary to accommodate site constraints.

8. Limestone may not be used for the stone pad.

SILT FENCE TO EXTEND AROUND ENTIRE PERIMETER OF STOCKPILE, OR IF

STOCKPILE AREA IS LOCATED ON/NEAR A SLOP THE SILT FENCE IS TO EXTEND

3. SILT FENCE SHALL BE MAINTAINED UNTIL STOCKPILE AREA HAS EITHER BEEN

2. IF STOCKPILE IS TO REMAIN FOR MORE THAN 14 DAYS, TEMPORARY

4. THE KEY TO FUNCTIONAL TEMPORARY STOCKPILE AREAS IS WEEKLY

INSPECTIONS, ROUTINE MAINTENANCE, AND REGULAR SEDIMENT REMOVAL.

CONSTR. ENTRANCE - INSPECTION & MAINTENANCE

NOT TO SCALE FEBRUARY 2014

DATE

2. Regular inspections of construction entrances shall be conducted once every calendar week and, as recommended, within 24—hours after each rainfall even that produces 1/2-inch or more of precipitation.

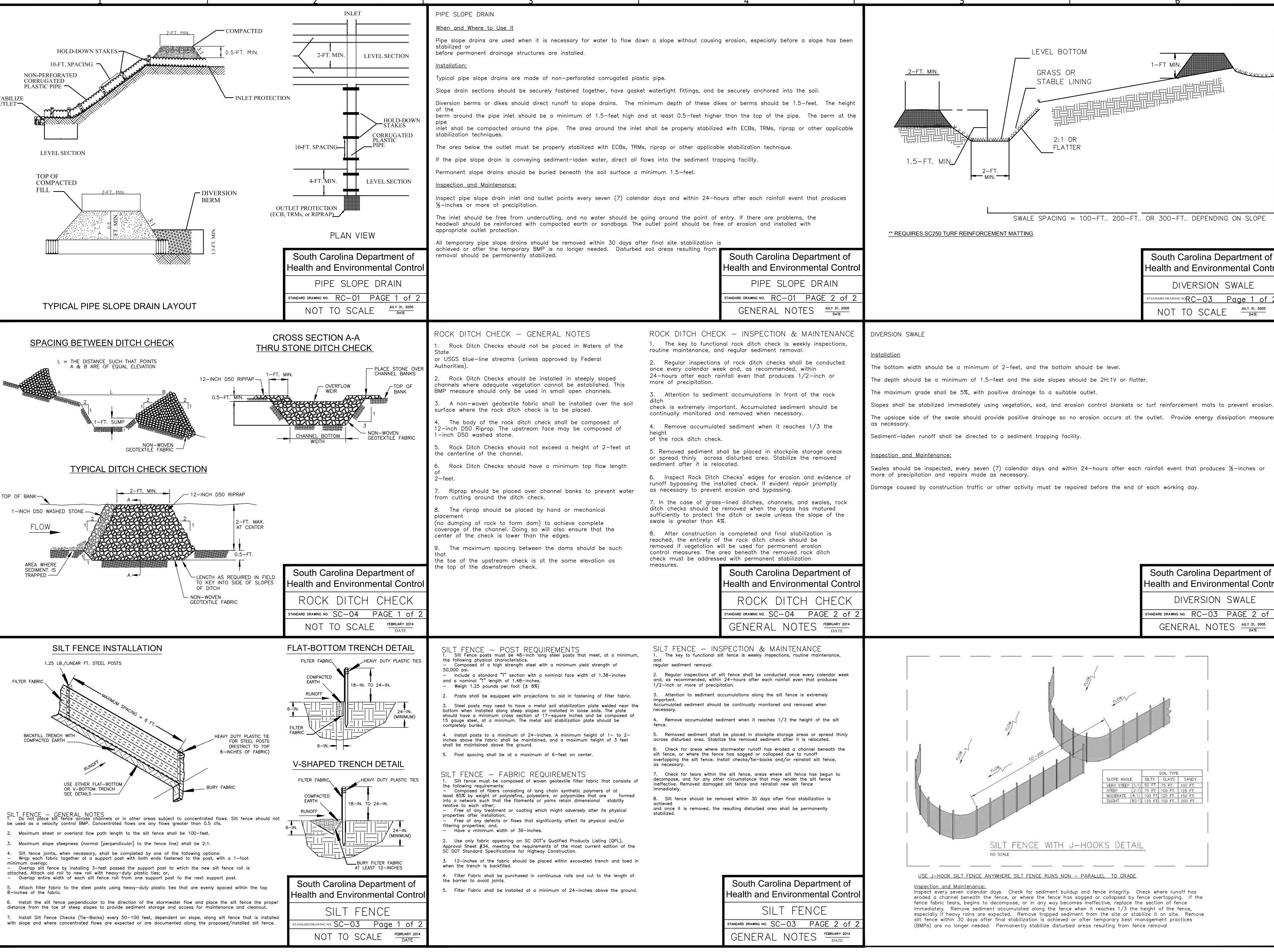
frequent during long periods of wet weather.

6. Immediately remove mud and sediment tracked or washed

repaired immediately.

reached final stabilization. Permanent vegetation should replace areas from which construction entrances have been removed, unless area will be converted to an impervious surface to serve post-construction.

GENERAL NOTES FEBRUARY 2014



South Carolina Department of

DATE

Health and Environmental Contro

DIVERSION SWALE $^{\text{DARD DRAWING NO}}$ RC-03 Page 1 of 2

The upslope side of the swale should provide positive drainage so no erosion occurs at the outlet. Provide energy dissipation measures

Swales should be inspected, every seven (7) calendar days and within 24—hours after each rainfall event that produces ½—inches or

South Carolina Department of

DIVERSION SWALE

GENERAL NOTES JULY 31, 2005

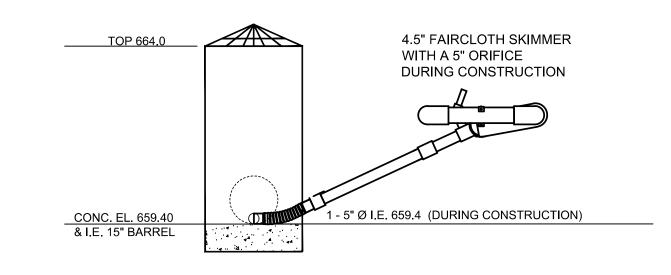
Health and Environmental Control

tandard drawing no. RC $-03\,$ PAGE 2 of 2

PROPOSED IOME 2 SUITE BY HILTON

PROJECT MANAGER: PROJECT DATE: 5/3/2023 JOB No.: 2023104

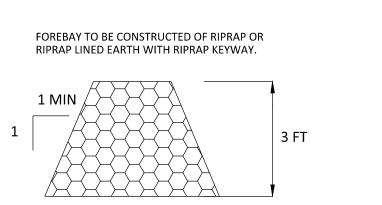
PLOT DATE:



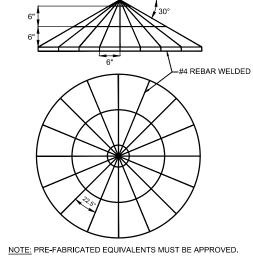
ORIFICE CONFIGURATION (TEMP SED BASIN 1)

(N.T.S.)

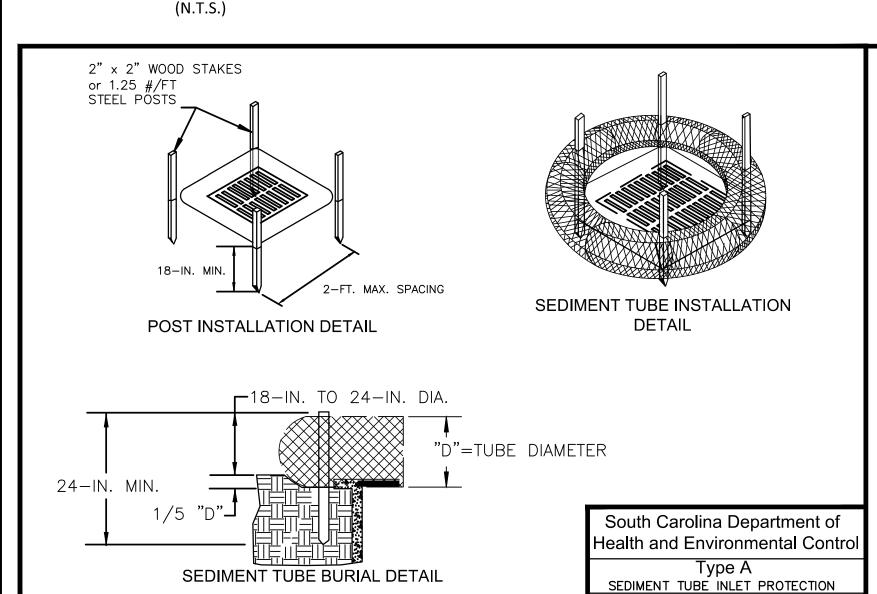
Area (FT^2)	Volume (FT^3)	Cum. Volume (FT^3)	Surface Area (AC)
500	0	0	0.01
14,659	4,548	4,548	0.34
17,563	16,111	20,659	0.40
18,537	18,050	38,709	0.43
19,572	19,055	57,763	0.45
20,633	20,103	77,866	0.47
	500 14,659 17,563 18,537 19,572	500 0 14,659 4,548 17,563 16,111 18,537 18,050 19,572 19,055	500 0 14,659 4,548 17,563 16,111 18,537 18,050 19,572 19,055 57,763



RIPRAP FOREBAY



<u>TYPICAL CONICAL TRASH RACK</u>



GENERAL NOTES Sediment tubes are elongated tubes of compacted geotextiles, curled excelsior wood, natural coconut fiber, or hardwood mulch. Straw, pine needle, and leaf mulch-filled sediment tubes are not permitted.

seamless, high-density polyethylene photodegradable materials treated with ultraviolet stabilizers or a seamless, high-density polyethylene non-degradable material.

The outer netting of the sediment tube should consist of

Sediment tube diameters shall range from 18-inches to 24-inches. Sediment tunes with smaller diameters are

Curled excelsior wood, or natural coconut products that are rolled up to create a sediment tube are not allowed.

Sediment tubes should be staked using wooden oak stakes (2-inch X 2-inch) or steel posts (standard "U" or "T" sections with a minimum weight of 1.25 pounds per foot) at a minimum of 48-inches in length placed on 2-foot centers.

6. Install all sediment tubes to ensure that no gaps exist between the soil and the bottom of the tube. Manufactuer's recommendations should always be consulted before

The ends of adjacent sediment tubes should be overlapped 6—inches to prevent flow and sediment from passing through

8. Sediment tubes should not be stacked on top of one another

10. Install stakes at a diagonal facing incoming runoff.

the field joint.

Each sediment tube should be installed in a trench with a depth equal to 1/5 the diameter of the sediment tube.

INSPECTION & MAINTENANCE

1. The key to functional inlet protection is weekly inspections, routine maintenance, and regular sediment removal. 2. Regular inspections of sediment tube inlet protection shall be

conducted once every calendar week and, as recommended, within 24—hours after each rainfall even that produces 1/2—inch or more of precipitation.

Attention to sediment accumulations in front of the sediment tube is extremely important. Accumulated sediment should be continually monitored and removed when necessary.

4. Remove accumulated sediment when it reaches 1/3 the of the sediment tube. When a sump is installed in front of the inlet protection, sediment shall be removed when if fills approximately 1/3 the depth of the sump.

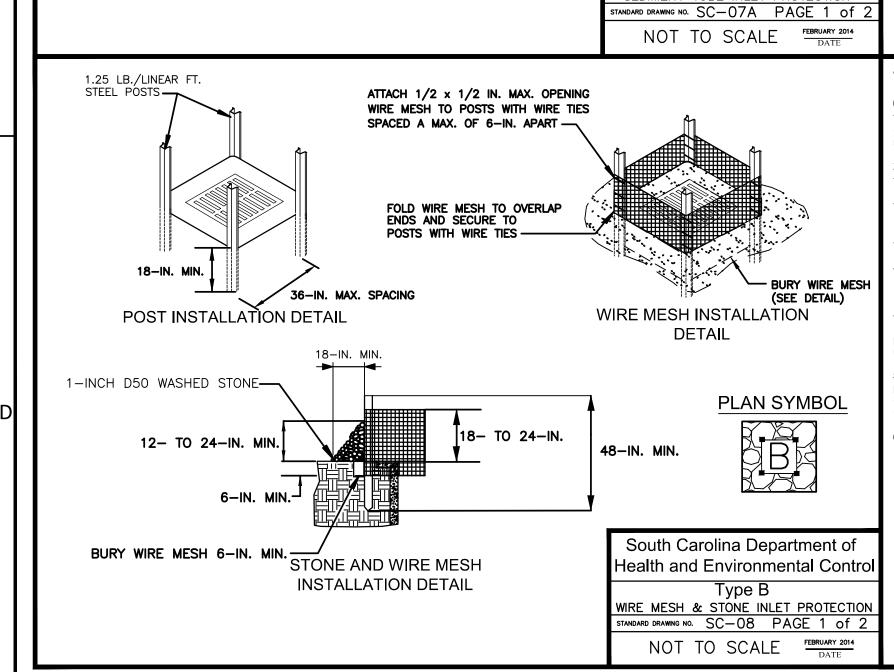
5. Removed sediment shall be placed in stockpile storage areas or spread thinly across disturbed area. Stabilize the removed sediment after it is relocated.

6. Large debris, trash, and leaves should be removed from in

front of tubes when found.

. Inlet protection structures should be removed after the disturbed areas are permanently stabilized. Remove all construction material and sediment, and dispose of them properly. Grade the disturbed area to the elevation of the drop inlet structure crest. Stabilize all bare areas immediately.

South Carolina Department of Health and Environmental Contro
Type A
SEDIMENT TUBE INLET PROTECTION
STANDARD DRAWING NO. SC-07A PAGE 2 of 2
NOT TO SCALE FEBRUARY 2014 DATE



WIRE MESH & STONE INLET PROTECTION GENERAL NOTES

Use hardware fabric or comparable wire mesh with maximum openings of 0.5—inches x 0.5—inches as the supporting

Use steel posts that meet the following physical requirements: -Be composed of high strength steel with a minimum vield of 50,000 psi.

-Have a standard "T" section with a nominal face width 1.38 inches and a nominal "T" width of 1.48—inches. Weigh 1.25 pounds per foot (±8%)

Space the steel posts a maximum of 3—feet apart around

Use heavy—duty wire ties to attach the wire mesh material

perimeter of the inlet and drive them into the ground a ninimum of 18-inches.

Excavate a trench 6—inches deep around the outside of the inlet to install wire mesh. Backfill the trench with soil or crushed stone and compact over the wire mesh.

Place Aggregate No. 5 washed stone (or 1—inch D50 stone) to a minimum height of 12—inches, and a maximum of 24—inches against the wire mesh on all sides.

INSPECTION & MAINTENANCE 1. The key to functional inlet protection is weekly inspections, routine maintenance, and regular sediment removal.

2. Regular inspections of wire mesh and stone inlet protection shall be conducted once every calendar week and, as recommended, within 24-hours after each rainfall even that produces 1/2—inch or more of precipitation.

3. Attention to sediment accumulations in front of the inlet protection is extremely important. Accumulated sediment should be continually monitored and removed when necessary.

4. Remove accumulated sediment when the sediment reaches height of the stone fill or when stone becomes clogged. When a sump is installed in front of inlet protection, sediment should be removed when it fills approximately 1/3 the depth of the

5. Removed sediment shall be placed in stockpile storage areas or spread thinly across disturbed area. Stabilize the removed sediment after it is relocated.

6. Large debris, trash, and leaves should be removed from in front of the inlet protection when found. 7. After accumulated sediment is removed, pull stones from

8. Inlet protection structures should be removed after the disturbed areas are permanently stabilized. Remove all construction material and sediment, and dispose of them properly. Grade the disturbed area to the elevation of the drop inlet crest. Stabilize all bare areas immediately.

around wire mesh to wash or to replace with fresh stones as

South Carolina Department of Health and Environmental Control IRE MESH & STONE INLET PROTECTION STANDARD DRAWING NO. SC-08 PAGE 2 of GENERAL NOTES FEBRUARY 2014

THE SEDIMENT BASIN/PONDS MUST BE INSTALLED AND OPERATING BEFORE ANY MASS CLEARING OR GRUBBING OF THE REMAINDER OF THE

MAINTENANCE OF SEDIMENT AND EROSION CONTROL MEASURES MUST CONTINUE UNTIL THE SITE IS PERMANENTLY STABILIZED AND THE CONTROLS ARE REMOVED.

IF DISCREPANCY IS DISCOVERED ON SITE, CONTACT ENGINEER IMMEDIATELY FOR REVIEW.

4. CONTRACTOR TO SEE DETAIL PROVIDED FOR SIZING OF ALL OUTLET STABILIZATION.

ALL RIP RAP FOR CHECK DAMS, EMERGENCY SPILLWAYS, AND OUTLET STABILIZATION PROTECTION TO BE UNDERLAIN WITH FILTER FABRIC.

ALL STONE CHECK DAMS ARE TEMPORARY. CONTRACTOR TO REMOVE CHECK DAMS ONCE SITE IS 80% STABILIZED. SITE TO BE APPROVED BY OCONEE COUNTY & SITE ENGINEER.

CONTRACTOR TO TAKE NECESSARY STEPS TO CLEAN POND WHEN SEDIMENT REACHES THE MAXIMUM LEVEL WITHIN THE POND. CONTRACTOR TO PUMP AND DISPOSE OF ANY WATER IN POND IN A LEGAL MANNER. CONTRACTOR TO CLEAN OUT SEDIMENT AND RESTORE POND BOTTOM AND SIDE SLOPES TO THE DIMENSIONS SHOWN ON SHEET CV-2 AND POND CROSS-SECTION DETAIL, ONCE SITE IS STABILIZED. SEDIMENT BASIN MAY BE REMOVED AND POND AS-BUILT MAY BE SURVEYED. OCONEE COUNTY PRIOR TO PROJECT CLOSE-OUT

DETENTION POND MAINTENANCE PLAN:

1. GRASSING & MOWING

a. OWNER TO MAINTAIN PROPER VEGETATIVE COVER ON SIDE SLOPES, TOP OF DAM, AND BOTTOM OF PONDS.

b. OWNER TO MOW GRASS IN DETENTION AREAS 3 TIMES A YEAR.

2. TREE AND BRUSH MAINTENANCE c. OWNER MUST KEEP ALL TREES & BRUSH OUT OF DETENTION AREA INCLUDING THE BOTTOM

OF POND, SIDE SLOPES, AND THE TOP OF THE DAM. 3. TRASH MAINTENANCE

d. OWNER MUST REMOVE ALL TRASH ACCUMULATED IN THE DETENTION POND, OUTLET STRUCTURE, AND OUTFALL PIPE AREAS.

e. OWNER MUST ENSURE ORIFICES ARE CLEANED AND UNCLOGGED.

4. PIPE OUTFALL PROTECTION f. OWNER TO INSPECT PIPE OUTFALL PERIODICALLY. ANY EROSION/STRUCTURAL PROBLEMS

ARE TO BE REPAIRED IMMEDIATELY.

5. SWALE MAINTENANCE

g. SWALES MUST BE INSPECTED AND MAINTAINED WHEN OTHER STORMWATER FEATURES ARE INSPECTED AND REPAIRED.

CONSTRUCTION SEQUENCE FOR DETENTION/SEDIMENT POND:

DEMOLISH, CLEAR, AND GRUB AREA FOR SEDIMENT PONDS AS SHOWN ON EC-1.

2. EXCAVATE THE POND AS SHOWN ON EC-1 AND USE OUTLET CONTROL CONFIGURATION AS SHOWN ON SHEET D-4 INCLUDING SKIMMER.

3. ENGINEER TO VERIFY INSTALLATION OF PERIMETER CONTROLS AND POND BEFORE PROJECT

PROCEEDS

MAINTAIN SEDIMENT POND BY REMOVING ACCUMULATED SEDIMENT

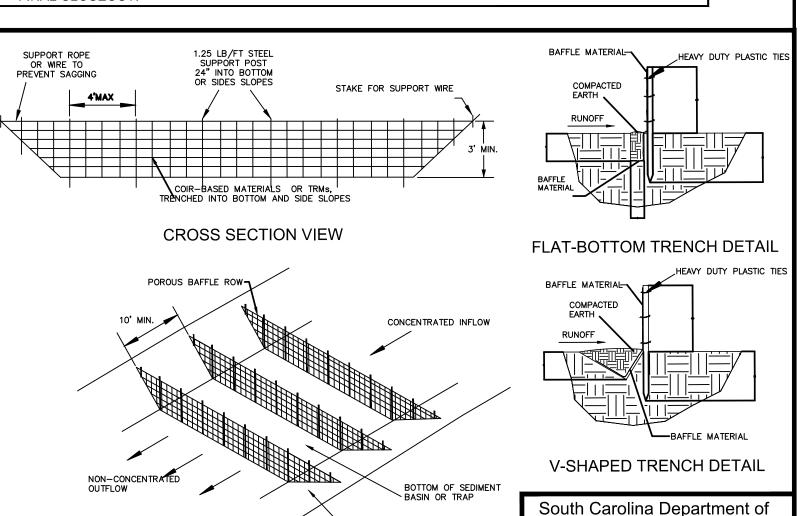
5. CONVERT THE SEDIMENT POND TO PERMANENT DETENTION POND ONCE SITE HAS REACHED 80% STABILIZATION. AS SHOWN ON EC-3

6. INSTALL JUTE MATTING ON THE SLOPES OF THE POND AS SOON AS POSSIBLE

PERSPECTIVE VIEW

7. REMOVE ACCUMULATED SEDIMENT FROM ALL EROSION CONTROL DEVICES AND POND PRIOR TO

FINAL CLOSEOUT.



BAFFLES - POST REQUIREMENTS Porous baffle posts must be 60-inch to 96-inch long steel posts that meet, at a minimum, the following physical characteristics.

— Composed of a high strength steel with a minimum yield strength of Include a standard "T" section with a nominal face width of 1.38—inches

PLAN SYMBOL

Weigh 1.25 pounds per foot $(\pm 8\%)$ Posts shall be equipped with projections to aid in fastening of baffle material. Install posts to a minimum of 24-inches. A minimum height of 1- to 2nches above the fabric shall be maintained, and a maximum height of 3 feet shall be maintained above the ground. 4. Post spacing shall be at a maximum of 4—feet on center.

BAFFLES - MATERIAL REQUIREMENTS Baffle material must be composed of coir-based materials or Turf Reinforcement Matting (TRM) that consists of the following requirements: Have a light penetration (% openings) between 10-35%; Free of loose straw material;

Have a minimum tensile strength of 145 lb/ft; and, Have a minimum width of 48—inches.

and a nominal "T" length of 1.48—inches.

12-inches of the fabric should be placed within excavated trench and toed in when the trench is backfilled or baffle material may be stapled into ground by using 12-inch staples with a maximum spacing of 12-inches. Baffle material shall be purchased in continuous rolls and cut to the width of the sediment basin or trap to avoid joints.

BAFFLES - GENERAL NOTES 1. Attach baffle to the steel posts using heavy—duty plastic ties that are evenly spaced along the above ground portion of each post.

2. Install the baffle rows perpendicular to the direction of the stormwater flow and place each baffle the proper distance from inlet and outlets to allow access for maintenance and clean—out.

BAFFLES - INSPECTION & MAINTENANCE . The key to functional porous baffles is weekly inspection, routine maintenance, 2. Regular inspections of porous baffles shall be conducted once every calendar week and, as recommended, within 24-hours after each rainfall even that produces 1/2-inch or more of precipitation. 3. Attention to sediment accumulations along each row of baffles is extremely

Health and Environmental Control

POROUS BAFFLES

randard drawing no. EC-13 PAGE 1 of

NOT TO SCALE FEBRUARY 2014

DATE

4. Remove accumulated sediment when it reaches 1/3 the height of the baffle row or when it reaches the clean—out height of the sediment basin or trap, 5. Removed sediment shall be placed in stockpile storage areas or spread thinly across disturbed area. Stabilize the removed sediment after it is relocated.

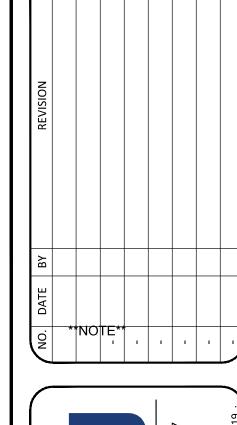
important. Accumulated sediment should be continually monitored and removed

6. Check for areas where stormwater runoff has eroded a channel beneath each row of baffles, or where the baffle has sagged or collapsed due to runoff overtopping the baffle. 7. Check for tears/rips within the baffles, areas where the baffle has begun to

decompose, and for any other circumstance that may render the baffle ineffective. Removed damaged baffles and reinstall new baffles immediately. 8. Porous baffles should be removed within 30 days after final stabilization is achieved and once it is removed, the resulting disturbed area shall be

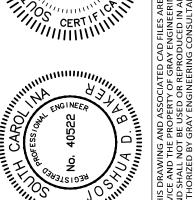
> South Carolina Department of Health and Environmental Control POROUS BAFFLES randard drawing no. SC-13 PAGE 2 of GENERAL NOTES FEBRUARY 2014
>
> DATE

IF THE CONTRACTOR SHOULD ENCOUNTER CONFLICTING SITEWORK NOTES, THE MORE STRINGENT NOTE SHALL APPLY.









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PROJECT MANAGER: DRAWN BY:

MSG PROJECT DATE: 5/3/2023 OB No.: 2023104 LOT DATE: SHEET

PROJECT INFORMATION								
ENGINEERED PRODUCT MANAGER								
ADS SALES REP								
PROJECT NO.								





GREENWOOD HOTEL

GREENWOOD, SC, USA

SC-800 STORMTECH CHAMBER SPECIFICATIONS

- 1. CHAMBERS SHALL BE STORMTECH SC-800.
- 2. CHAMBERS SHALL BE ARCH-SHAPED AND SHALL BE MANUFACTURED FROM VIRGIN, IMPACT-MODIFIED POLYPROPYLENE COPOLYMERS.
- 3. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- 4. CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORTS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.
- THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.
- 6. CHAMBERS SHALL BE DESIGNED AND ALLOWABLE LOAD CONFIGURATIONS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS", LOAD CONFIGURATIONS SHALL INCLUDE: 1) INSTANTANEOUS (<1 MIN) AASHTO DESIGN TRUCK LIVE LOAD ON MINIMUM COVER 2) MAXIMUM PERMANENT (75-YR) COVER LOAD AND 3) ALLOWABLE COVER WITH PARKED (1-WEEK) AASHTO DESIGN TRUCK.
- 7. REQUIREMENTS FOR HANDLING AND INSTALLATION:
 - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
 - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 2".
 - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT SHALL BE GREATER THAN OR EQUAL TO 550 LBS/FT/%. THE ASC IS DEFINED IN SECTION 6.2.8 OF ASTM F2418. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.
- 8. ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. UPON REQUEST BY THE SITE DESIGN ENGINEER OR OWNER, THE CHAMBER MANUFACTURER SHALL SUBMIT A STRUCTURAL EVALUATION FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE AS FOLLOWS:
 - THE STRUCTURAL EVALUATION SHALL BE SEALED BY A REGISTERED PROFESSIONAL ENGINEER.
 - THE STRUCTURAL EVALUATION SHALL DEMONSTRATE THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.95 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY SECTIONS 3 AND 12.12 OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS FOR THERMOPLASTIC PIPE.
 - THE TEST DERIVED CREEP MODULUS AS SPECIFIED IN ASTM F2418 SHALL BE USED FOR PERMANENT DEAD LOAD DESIGN EXCEPT THAT IT SHALL BE THE 75-YEAR MODULUS USED FOR DESIGN.
- 9. CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.

IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF THE SC-800 SYSTEM

- STORMTECH SC-800 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
- 2. STORMTECH SC-800 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/SC-800/DC-780 CONSTRUCTION GUIDE".
- 3. CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR AN EXCAVATOR SITUATED OVER THE CHAMBERS.
 - STORMTECH RECOMMENDS 3 BACKFILL METHODS:
 - STONESHOOTER LOCATED OFF THE CHAMBER BED.
 BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE.
 - BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR.
- 4. THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS.
- JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.
- 6. MAINTAIN MINIMUM 6" (150 mm) SPACING BETWEEN THE CHAMBER ROWS.
- EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE 3/4-2" (20-50 mm).
- 8. THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BEARING CAPACITIES TO THE SITE DESIGN
- 9. ADS RECOMMENDS THE USE OF "FLEXSTORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.

NOTES FOR CONSTRUCTION EQUIPMENT

- STORMTECH SC-800 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/SC-800/DC-780 CONSTRUCTION GUIDE".
- 2. THE USE OF CONSTRUCTION EQUIPMENT OVER SC-800 CHAMBERS IS LIMITED:
 - NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.
 - NO RUBBER TIRED LOADERS, DUMP TRUCKS, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/SC-800/DC-780 CONSTRUCTION GUIDE".
 - WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH SC-310/SC-740/SC-800/DC-780 CONSTRUCTION GUIDE".
- 3. FULL 36" (900 mm) OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING.

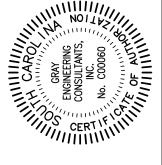
USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO THE CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH STANDARD WARRANTY.

CONTACT STORMTECH AT 1-888-892-2694 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT.

NO. DATE BY REVISION









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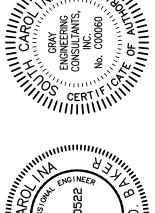
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DRAWN BY: MSG
PROJECT DATE: 5/3/2023

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Secretary Profession Professi	40 STONE VOID INSTALLED SYSTEM VOLUME (CF)	MINIMUM ALLOWABLE GRADE (BASE OF FLEXIITOP OF STONE:	BLE PAVEMENT): 663.72	PREFABRICATED END CAP	С	15" TOP CORED END CAP, PART#: SC800EPE15TPC / TYP OF ALL 15" TOP CONNECTIONS 11.30"	しい (ED:
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ISOLATOR ROW PLUS (SEE DETAIL) PLACE MINIMUM 12.50' OF ADSPLUS125 WOVEN GEOTEXTILE OVER BEDDING STONE AND UNDERNEATH CHAMBER FEET FOR SCOUR PROTECTION AT ALL CHAMBER INLET ROWS NOTES MANIFOLD SIZE TO BE DETERMINED BY SITE DESIGN ENGINEER. SEE TECH NOTE #6.32 FOR MANIFOLD SIZING GUIDANCE. DUE TO THE ADAPTATION OF THIS CHAMBER SYSTEM TO SPECIFIC SITE AND DESIGN CONSTRAINTS, IT MAY BE NECESSARY TO CUT AND COUPLE ADDITIONAL PIPE TO STANDARD MANIFOLD THE SITE DESIGN ENGINEER MUST REVIEW ELEVATIONS AND IF NECESSARY ADJUST GRADING TO ENSURE THE CHAMBER COVER REQUIREMENTS ARE MET. THIS CHAMBER SYSTEM WAS DESIGNED WITHOUT SITE-SPECIFIC INFORMATION ON SOIL CONDITIONS OR BEARING CAPACITY. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR SHEET SHEET		STRUCTURE ON 6" UNDE	RDRAIN			158.25	Storm Tech ® Chamber System 888-892-2694 WWW.STORMTECH.COM DATE DRW CHK DESCRIPTION DATE DRW CHK DRW CHK DRW CHK DATE DRW CHK DRW CHK DRW CHK DRW DATE DRW CHK DRW CHK DRW CHK DRW CHK DATE DRW CHK DRW
PLACE MINIMUM 12.50' OF ADSPLUS125 WOVEN GEOTEXTILE OVER BEDDING STONE AND UNDERNEATH CHAMBER FEET FOR SCOUR PROTECTION AT ALL CHAMBER INLET ROWS NOTES • MANIFOLD SIZE TO BE DETERMINED BY SITE DESIGN ENGINEER. SEE TECH NOTE #6.32 FOR MANIFOLD SIZING GUIDANCE. • DUE TO THE ADAPTATION OF THIS CHAMBER SYSTEM TO SPECIFIC SITE AND DESIGN CONSTRAINTS, IT MAY BE NECESSARY TO CUT AND COUPLE ADDITIONAL PIPE TO STANDARD MANIFOLD COMPONENTS IN THE FIELD. • THE SITE DESIGN ENGINEER MUST REVIEW ELEVATIONS AND IF NECESSARY ADJUST GRADING TO ENSURE THE CHAMBER COVER REQUIREMENTS ARE MET. • THIS CHAMBER SYSTEM WAS DESIGNED WITHOUT SITE-SPECIFIC INFORMATION ON SOIL CONDITIONS OR BEARING CAPACITY. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR DETERMINING							4640 TRI HILLIARE 1-800-733
STONE AND UNDERNEATH CHAMBER FEET FOR SCOUR PROTECTION AT ALL CHAMBER INLET ROWS CHAMBER SYSTEM TO SPECIFIC SITE AND DESIGN ENGINEER. SEE TECH NOTE #6.32 FOR MANIFOLD SIZING GUIDANCE. COMPONENTS IN THE FIELD. COMPONENTS IN THE FIELD. THE SITE DESIGN ENGINEER MUST REVIEW ELEVATIONS AND IF NECESSARY ADJUST GRADING TO ENSURE THE CHAMBER COVER REQUIREMENTS ARE MET. THIS CHAMBER SYSTEM WAS DESIGNED WITHOUT SITE-SPECIFIC INFORMATION ON SOIL CONDITIONS OR BEARING CAPACITY. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR SHEET SHEET	KX XXX		NOTES				I G HAS
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• THE SITE DESIGN ENGINEER MUST REVIEW ELEVATIONS AND IF NECESSARY ADJUST GRADING TO ENSURE THE CHAMBER COVER REQUIREMENTS ARE MET. • THIS CHAMBER SYSTEM WAS DESIGNED WITHOUT SITE-SPECIFIC INFORMATION ON SOIL CONDITIONS OR BEARING CAPACITY. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR SHEET DETERMINING	CHAMBER INLET ROWS		 DUE TO THE ADAPTATION OF COMPONENTS IN THE FIELD. 	THIS CHAMBER SYSTEM TO SP	ECIFIC SITE	EAND DESIGN CONSTRAINTS, IT MAY BE NECESSARY TO CUT AND COUPLE ADDITIONAL PIPE TO STANDARD MANIFOLD	Id SIH.
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PROVIDED.	BED LIMITS		THE SUITABILITY OF THE SOIL AND	PROVIDING THE BEARING CAPA	ACITY OF T	HE INSITU SOILS. THE BASE STONE DEPTH MAY BE INCREASED OR DECREASED ONCE THIS INFORMATION IS	2 OF 5







SCALE: PROJECT MANAGER: DRAWN BY: MSG

PROJECT DATE: 5/3/2023 JOB No.: 2023104

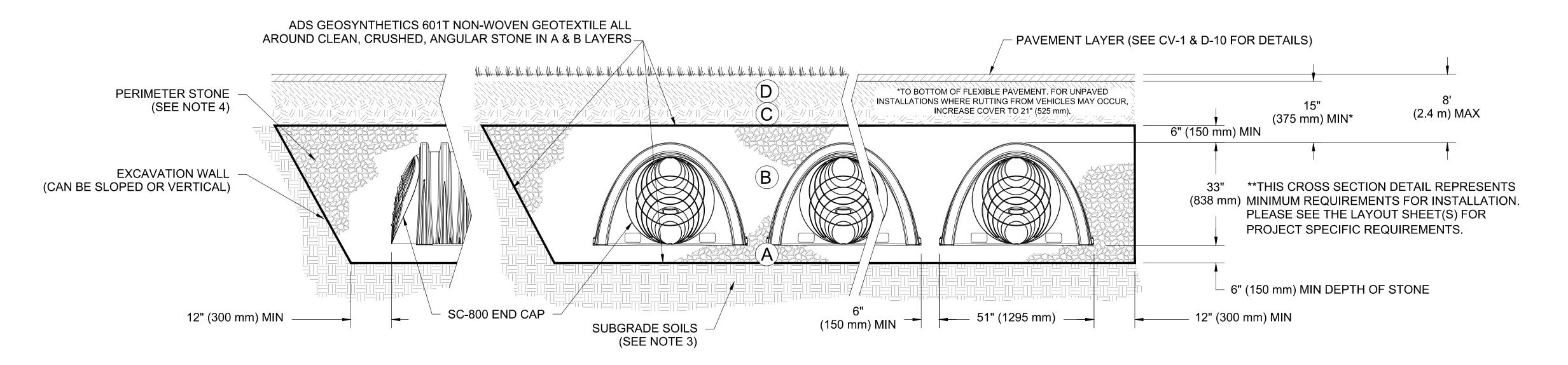
PLOT DATE:

ACCEPTABLE FILL MATERIALS: STORMTECH SC-800 CHAMBER SYSTEMS

	MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	FINAL FILL: FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER.	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
С	INITIAL FILL: FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 15" (375 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE. MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	AASHTO M145 ¹ A-1, A-2-4, A-3 OR AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 12" (300 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 6" (150 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 lbs (53 kN). DYNAMIC FORCE NOT TO EXCEED 20,000 lbs (89 kN).
В	EMBEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETE5	AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57	NO COMPACTION REQUIRED.
А	FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETE5	AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. ^{2,3}

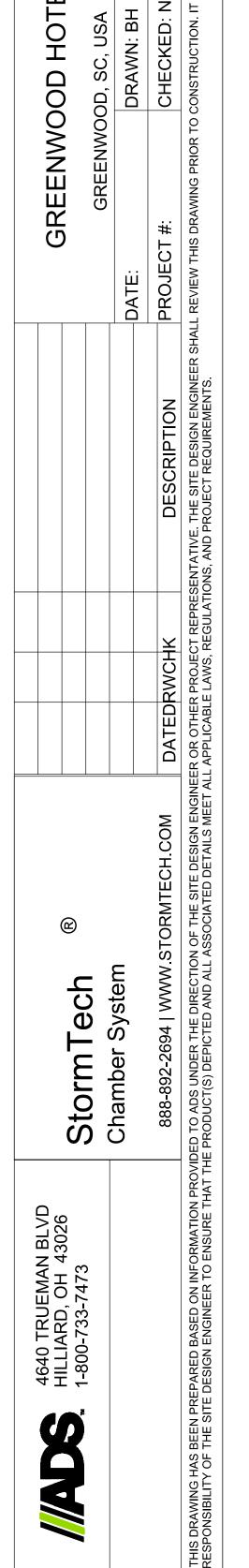
PLEASE NOTE

- 1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE"
- STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 6" (150 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
- 3. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS
- 4. ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.
- 5. WHERE RECYCLED CONCRETE AGGREGATE IS USED IN LAYERS 'A' OR 'B' THE MATERIAL SHOULD ALSO MEET THE ACCEPTABILITY CRITERIA OUTLINED IN TECHNICAL NOTE 6.20 "RECYCLED CONCRETE STRUCTURAL BACKFILI



NOTES:

- 1. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- 2. SC-800 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- 3. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
- 4. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
- 5. REQUIREMENTS FOR HANDLING AND INSTALLATION:
 - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
 - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 2".
 - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT AS DEFINED IN SECTION 6.2.8 OF ASTM F2418 SHALL BE GREATER THAN OR EQUAL TO 550 LBS/FT/%. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.

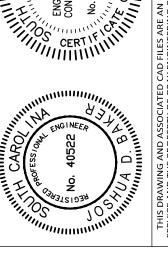


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CC 29607
9-8747
DM





POSED 2 SUITES HILTON

PROPOSED HOME 2 SUITE BY HILTON

SCALE:
PROJECT MANAGER: ZDJ
DRAWN BY: MSG
PROJECT DATE: 5/3/2023
JOB No.: 2023104

SHEET D-7

INSTALL FLAMP ON 24" (600 mm) ACCESS PIPE
PART#: SC74024RAMP
SC-800 CHAMBER

OPTIONAL INSPECTION PORT

SC-800 END CAP

CATCH BASIN
OR MANHOLE

24" (600 mm) HDPE ACCESS PIPE REQUIRED
USE END CAP PART #: SC800EPE24BPC

ONE LAYER OF ADSPLUS625 WOVEN GEOTEXTILE BETWEEN FOUNDATION STONE AND CHAMBERS
S (1.5 m) MIN WIDE CONTINUOUS FABRIC WITHOUT SEAMS

SC-800 ISOLATOR ROW PLUS DETAIL

INSPECTION & MAINTENANCE

STEP 1) INSPECT ISOLATOR ROW PLUS FOR SEDIMENT

A. INSPECTION PORTS (IF PRESENT)

A.1. REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN
A.2. REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED

A.3. USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG

A.4. LOWER A CAMERA INTO ISOLATOR ROW PLUS FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)

A.5. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.

B. ALL ISOLATOR PLUS ROWS

B.1. REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW PLUS

B.2. USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW PLUS THROUGH OUTLET PIPE i)MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY ii)FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE

B.3. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.

STEP 2) CLEAN OUT ISOLATOR ROW PLUS USING THE JETVAC PROCESS

A. A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45" (1.1 m) OR MORE IS PREFERRED

B. APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN

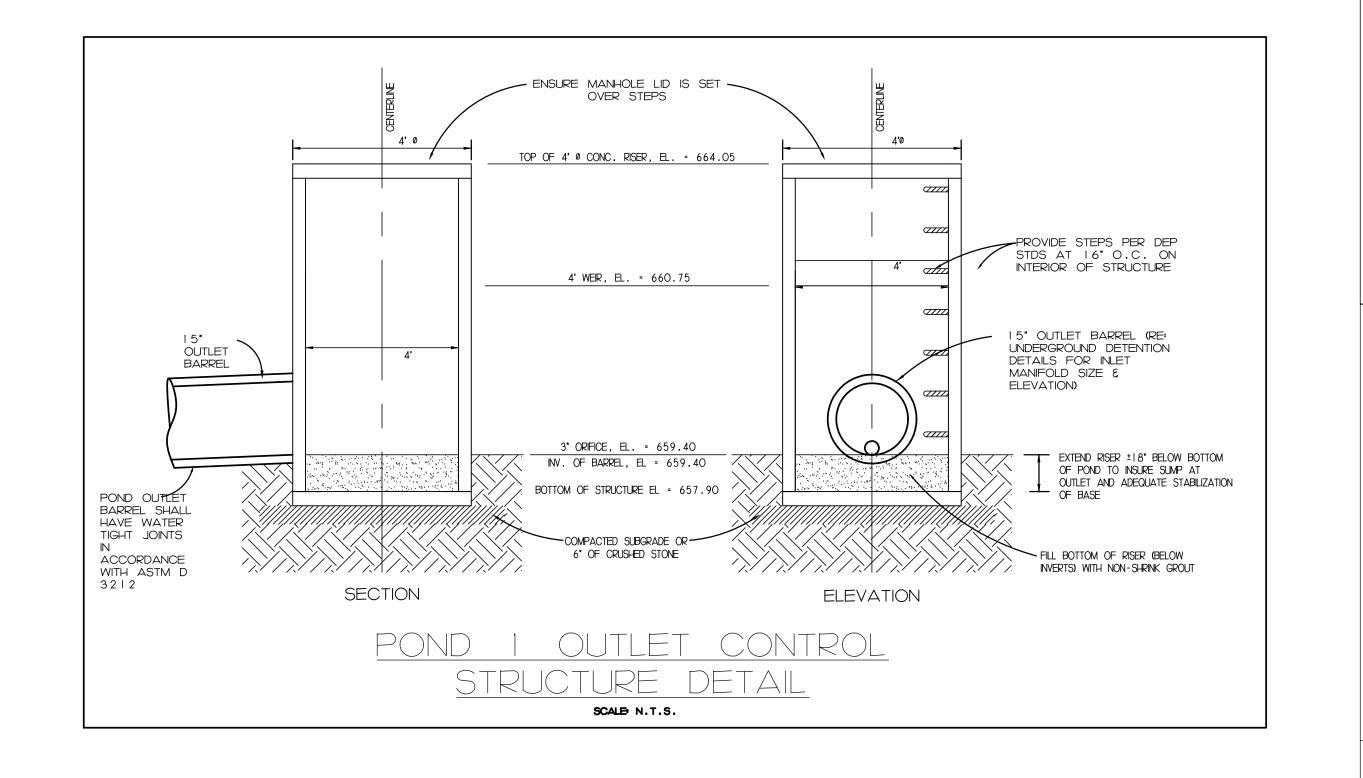
C. VACUUM STRUCTURE SUMP AS REQUIRED

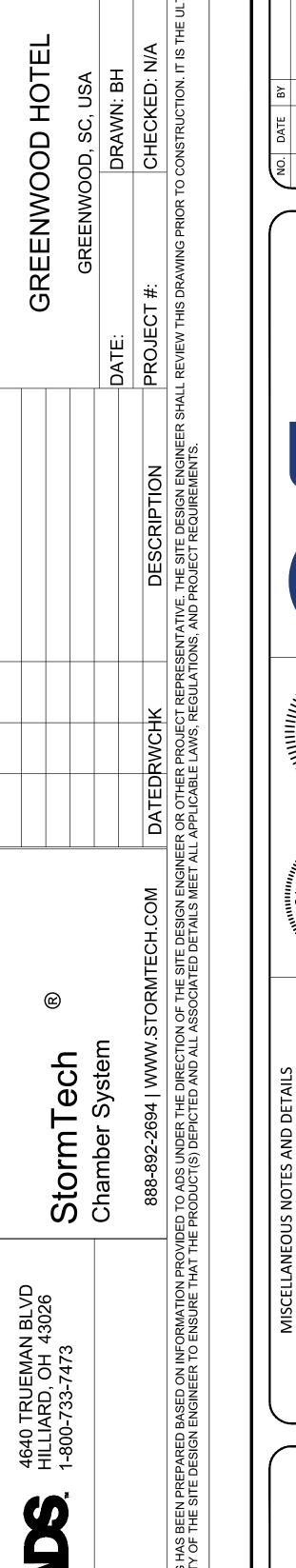
STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.

STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

NOTES

- 1. INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
- 2. CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.



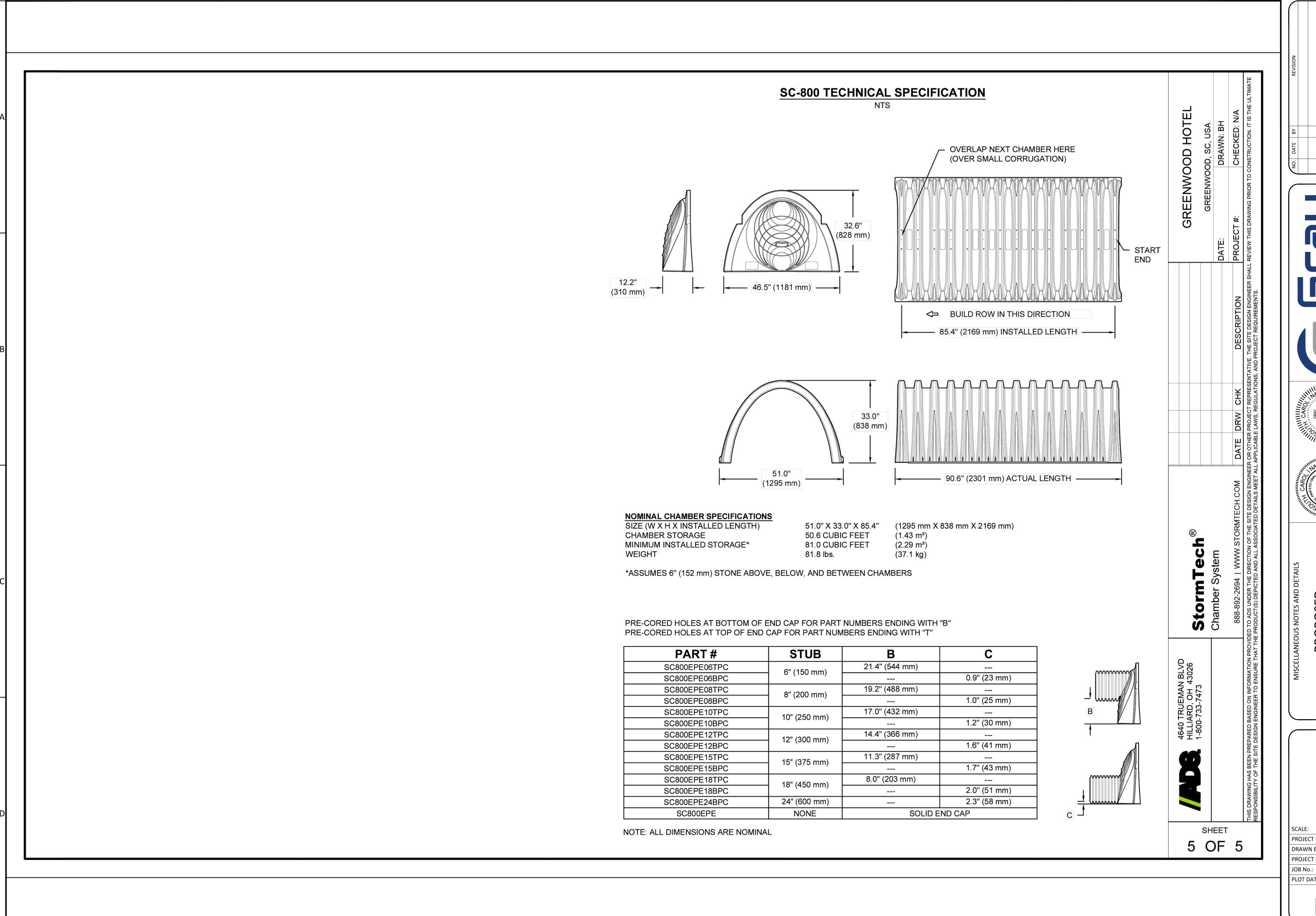


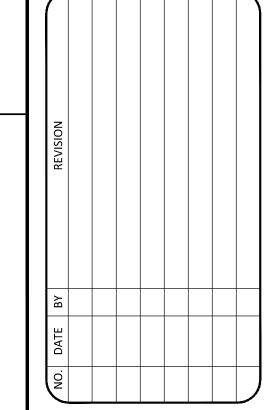
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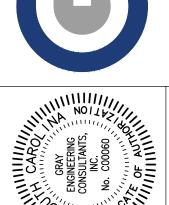
SCALE:
PROJECT MANAGER: ZDJ
DRAWN BY: MSG
PROJECT DATE: 5/3/2023
JOB No.: 2023104
PLOT DATE:
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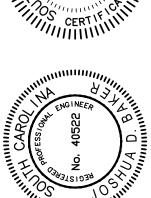
PROPOSED HOME 2 SUITE BY HILTON



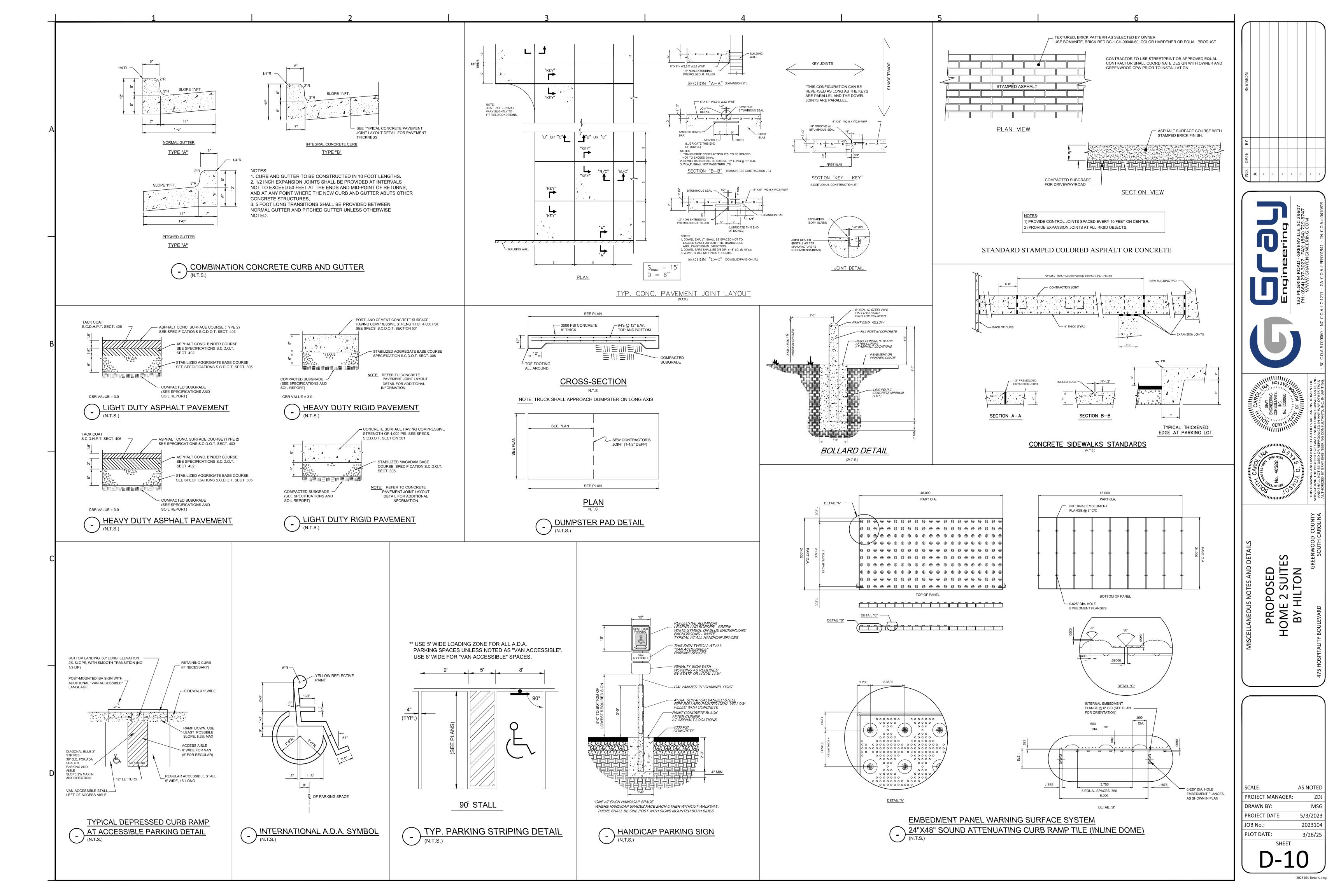


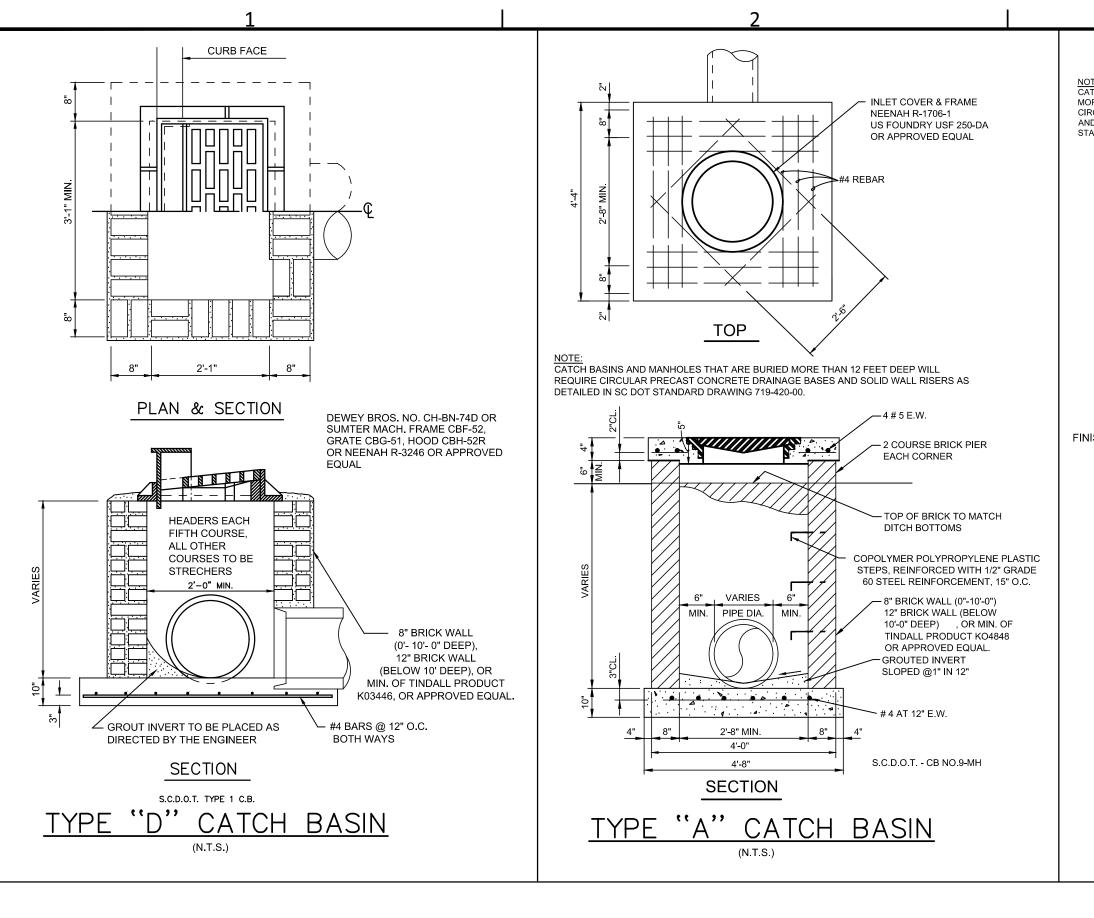


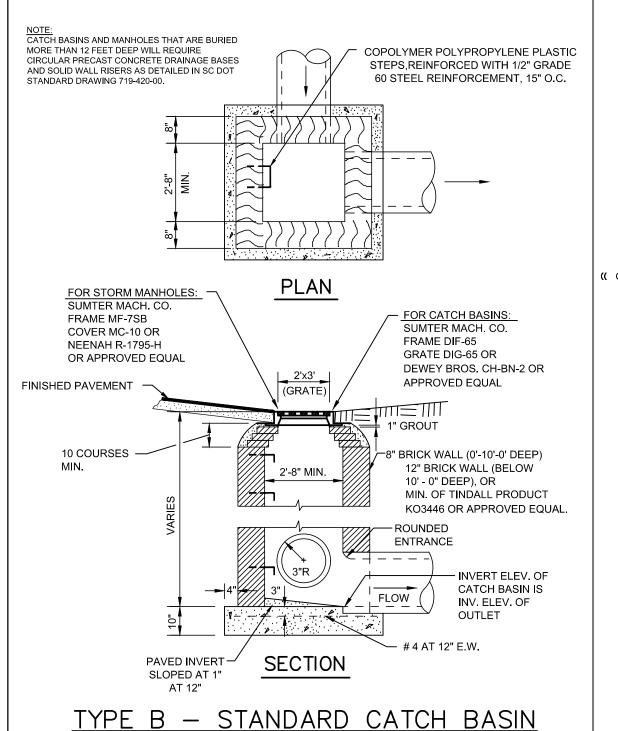




PROJECT MANAGER: DRAWN BY: PROJECT DATE: 5/3/2023 2023104







TYPE C - STORM DRAIN MANHOLE

(N.T.S.)

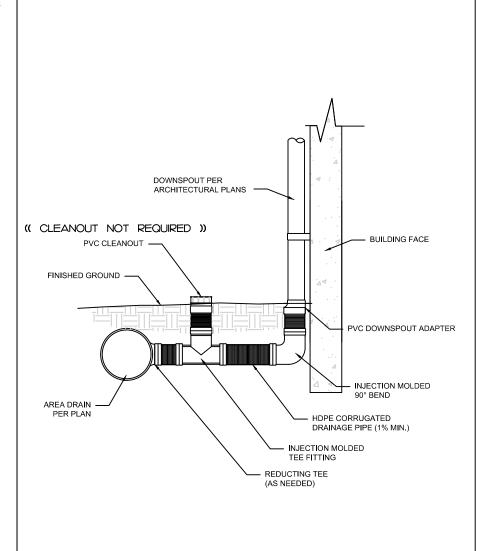
HP STORM TRENCH INSTALLATION DETAIL

ALL PIPE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, "STANDARD PRACTICE FOR UNDERGROUND STALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW APPLICATIONS", LATEST ADDITION, WITH THE CEPTION THAT THE INITIAL BACKFILL MAY EXTEND TO THE CROWN OF THE PIPE. SOIL CLASSIFICATIONS ARE PER THE LATE: RSION OF ASTM D2321. CLASS IVE MATERIALS (MH, CH) AS DEFINED IN PREVIOUS VERSIONS OF ASTM D2321 ARE NOT

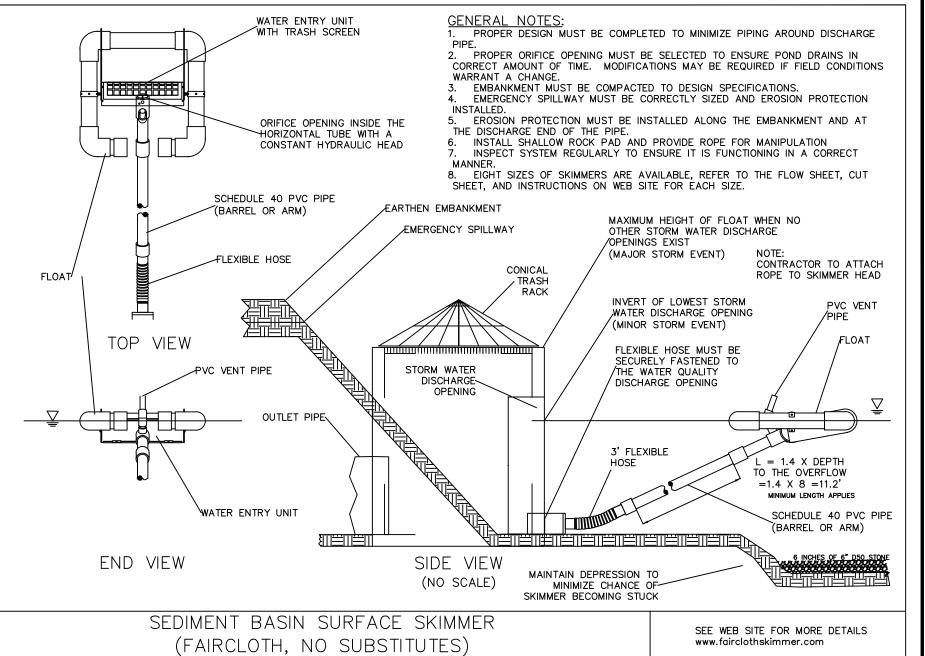
4. BEDDING: SUITABLE MATERIAL SHALL BE CLASS I, II, III, OR IV. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATE SPECIFICATION TO ENGINEER. COMPACTION SHALL BE SPECIFIED BY THE ENGINEER IN ACCORDANCE WITH TABLE 3 FOR THE APPLICABLE III, HEIGHTS LUSTED. UNLESS OTHERWISE NOTED BY THE ENGINEER, MINIMUM BEDDING THICKNESS SHALL BE 4" (100mm) FOR 1.2"-24" (300mm-600mm) DIAMETER PIPE, 6" (150mm) FOR 30"-60" (750mm-1500mm) DIAMETER PIPE. TI MIDDLE 1/3 BENEATH THE PIPE INVERT SHALL BE LOOSELY PLACED. PLEASE NOTE, CLASS IV MATERIAL HAS LIMITED APPLICATION AND CAN BE DIFFICULT TO PLACE AND COMPACT; USE ONLY WITH THE APPROVAL OF A 501 EXPERT.

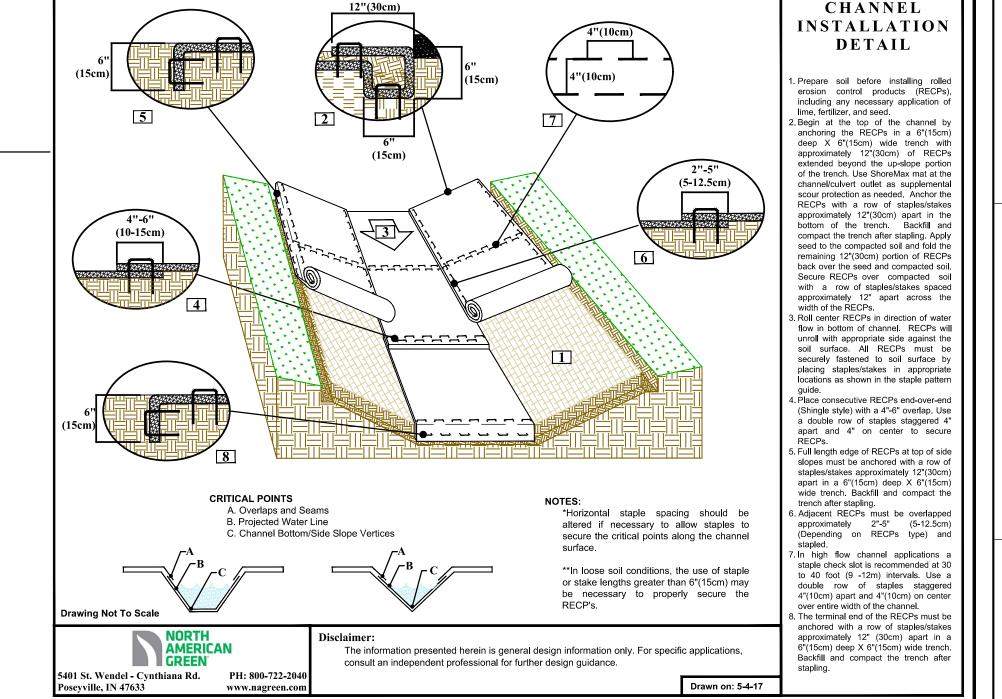
5. INITIAL BACKFILL: SUITABLE MATERIAL SHALL BE CLASS I, II, III, OR IV IN THE PIPE ZONE EXTENDING TO THE CROWN OF THE PIPE THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. MATERIAL SHALL BE INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION. COMPACTION SHALL BE SPECIFIED BY THE ENGINEER IN ACCORDANCE WITH TABLE 3 "OR THE APPLICABLE FILL HEIGHTS LISTED, PLEASE NOTE, CLASS IN MATERIAL HAS LIMITED APPLICATION AND CAN BE DIFFICULT TO PLACE AND COMPACT; USE ONLY WITH THE APPROVAL OF A SOIL EXPERT.

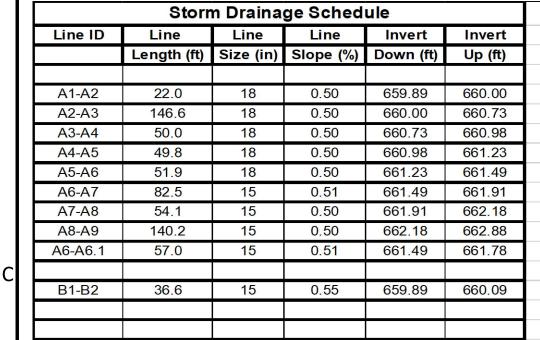
6. MINIMUM COVER: MINIMUM COVER, H, IN NON-TRAFFIC APPLICATIONS (GRASS OR LANDSCAPE AREAS) IS 12" (300mm) FROM THE TOP OF PIPE TO GROUND SURFACE. ADDITIONAL COVER MAY BE REQUIRED TO PREVENT FLOTATION. FOR TRAFFIC APPLICATIONS; CLASS IO RI IN MATERIAL COMPACTED TO 90% SPO AND CLASS ID RI MATERIAL COMPACTED TO 90% SPO AND CLASS ID RI MATERIAL COMPACTED TO 90% SPO AND CLASS ID RI MATERIAL COMPACTED TO 90% SPO AND CLASS ID RI MATERIAL COMPACTED TO 90% SPO AND CLASS ID RI MATERIAL COMPACTED TO 90% SPO AND CLASS ID RI MATERIAL COMPACTED TO 90% SPO AND CLASS ID RICHARD SPO AND CLASS IN THE STATE AND CLAS



ROOF DRAIN CONNECTION





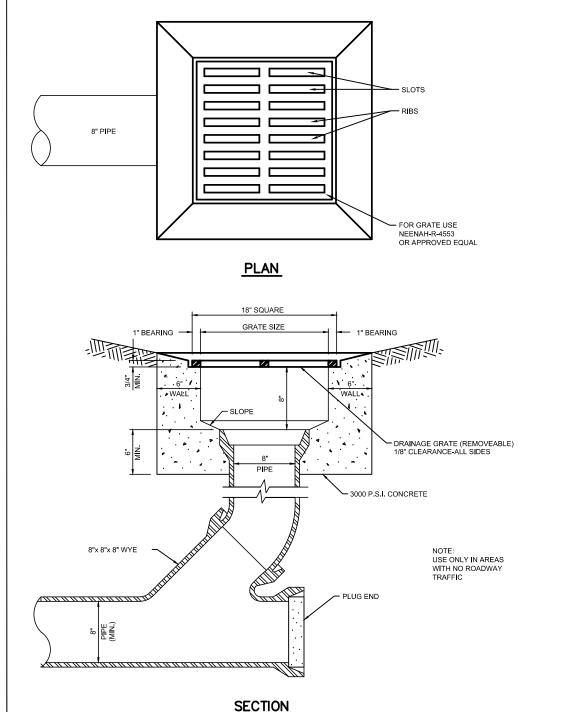


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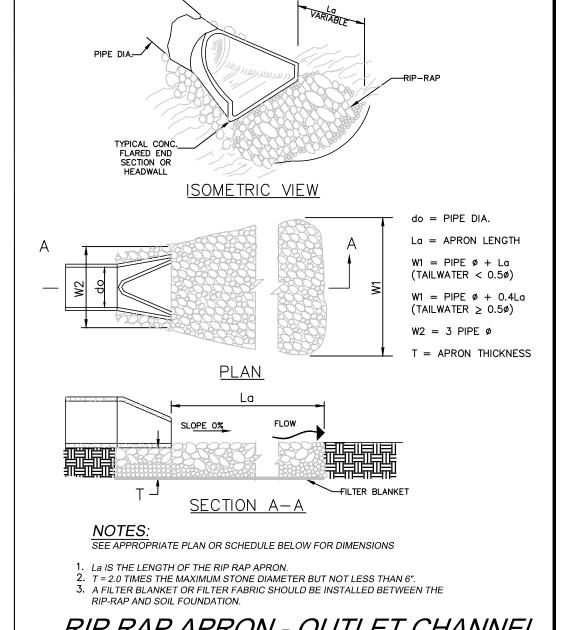
659.25 659.40

Z1-Z2 26.2

		Structure S	Schedule		
Structure	Structure	Тор	Weir/Rim	Bottom	Structure
ID	Type	Elev. (ft)	Elev. Up (ft)	Elev. (ft)	Depth (ft)
A1	'D'	663.60	663.10	659.89	3.71
A2	'D'	664.00	663.50	660.00	4.00
A3	'D'	665.90	665.40	660.73	5.17
A4	'D'	665.90	665.40	660.98	4.92
A5	'D'	665.90	665.40	661.23	4.67
A6	'B'	664.15	664.15	661.49	2.66
A7	'B'	666.27	666.27	661.91	4.36
A8	'B'	664.35	664.35	662.18	2.17
A9	'B'	665.00	665.00	662.88	2.12
A6.1	'B'	664.65	664.65	661.78	2.87
B1	'MH-C'	664.07	664.07	659.89	4.18
B2	'D'	663.85	663.35	660.09	3.76
C1	'B'	664.40	664.40	659.89	4.51
EXIST Z1	В	662.14	662.14	659.25	2.89
Z2	'D'	664.50	664.00	659.40	5.10



FOR ADDITIONAL INFORMATION SEE TECHNICAL NOTE 2.04.



PROPOSED IOME 2 SUITE BY HILTON

SCALE:

DRAWN BY:

JOB No.:

PLOT DATE:

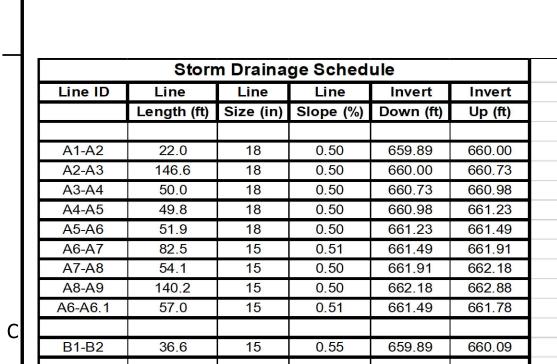
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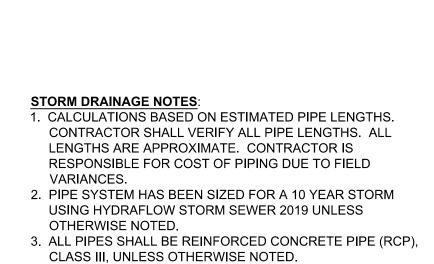
PROJECT MANAGER:

MSG

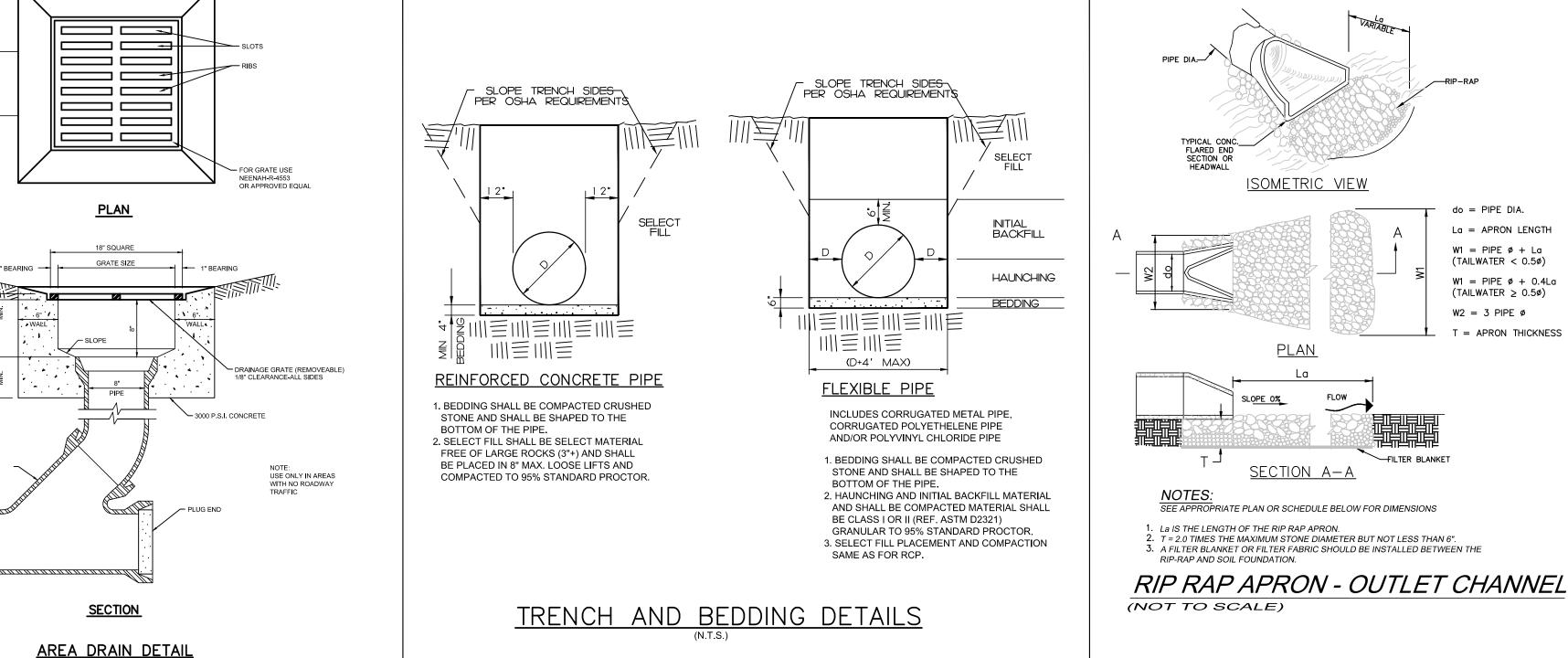
5/3/2023

2023104





STRUCTURE LEGEND "A" - AREA INLET "SW-'A" - SINGLE WING CURB INLET "DW-'A" - DOUBLE WING CURB INLET "DOUBLE A" - DOUBLE AREA INLET "HW" - HEADWALL "MH-'C" - JUNCTION MANHOLE



1. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING <u>ALL</u> LOCAL UTILITIES (GAS, POWER, TELEPHONE, TELECABLE, ETC.) AND INCLUDING IN HIS PRICE ALL WORK NECESSARY TO COORDINATE THE RELOCATION OF ANY EXISTING UTILITIES THAT INTERFERE WITH NEW CONSTRUCTION. UTILITIES SHOWN, OTHER THAN WATER AND SEWER, HAVE NOT BEEN DESIGNED AND ARE SHOWN FOR INFORMATION ONLY.

2. CONTRACTOR SHALL CONTACT <u>ALL</u> LOCAL UTILITIES BEFORE BEGINNING WORK AT SITE TO COORDINATE INSTALLATION, INSPECTIONS, AND PAY ALL ASSOCIATED FEES. INCLUDE ALL TAP, INSPECTION, AND METER FEES FOR WATER AND SEWER IN BID PRICE.

SITE LIGHTING DESIGN BY OTHERS. THE SITE LIGHTING SHOWN ON SITE PLANS IS FOR INFORMATION ONLY, REFERENCE ELECTRICAL PLANS FOR CIRCUITR

!. SEE SITE ELECTRICAL PLANS FROM ELECTRICAL ENGINEER FOR SITE ELECTRICAL ROUTING, SITE ELECTRICAL RE-LOCATION, SITE LIGHTING, TELEPHONE ROUTING, ETC. 5. ALL MATERIALS MUST MEET STATE AND LOCAL SPECIFICATIONS FOR THE WATER AND

SANITARY SEWER SYSTEM. 6. THE CONTRACTOR SHALL HAVE A PRE-CONSTRUCTION CONFERENCE WITH ALL UTILITIES (WATER, SEWER, ELECTRIC, TELEPHONE, TELECABLE, ETC.), AND THE FIRE CHIEF PRIOR TO BEGINNING CONSTRUCTION.

. AS-BUILT PLANS AND PROFILES SHALL BE CREATED FOR THE WATER AND SANITARY SEWER BY A PROFFESSIONAL LAND SURVEYOR (P.L.S.). THE AS-BUILT DRAWINGS AND ASSOCIATED EASEMENT PLATS SHALL BE REVIEWED BY THE RESPECTIVE UTILITY AUTHORITY AND RECORDED WITH PICKENS COUNTY PRIOR TO THE STORE OPENING

3. RISER AND FIRE SERVICE SIZES FOR INFORMATION ONLY. CONTRACTOR SHALL VERIFY SIZES AND INCLUDE COSTS IN BID PRICE. 9. GRAY ENGINEERING ACCEPTS NO RESPONSIBILITY FOR THE ACCURACY OF THE FLOW TEST DATA. THE SPRINKLER CONTRACTOR SHALL PERFORM THEIR OWN

FLOW TEST PRIOR TO DESIGNING SPRINKLER SYSTEM. 0.ALL SANITARY SEWER SERVICE PIPING SHALL BE POLYVINYL CHLORIDE (PVC) SDR 35. 4" SEWER SERVICES SHALL HAVE A MINIMUM SLOPE OF 2.08%

AND 6" SEWER SERVICES SHALL HAVE A MINIMUM SLOPE OF 1.04%

1.ALL 2", 2.5" AND 3" WATER SERVICES SHALL BE PVC. C900_CLASS 150 MATERIAL_ALL WATER MAINS 4". 6". 8" AND 12" SHALL BE "CLASS 350" DUCTILE IRON PIPE (D.I.P.). ALL WATER LINES TO FIRE HYDRANTS SHALL BE 6" "CLASS 350" DUCTILE IRON PIPE (D.I.P.). CONTRACTOR SHALL REFER TO LOWES SPECS AND GREENWOOD CPW SPECS. CONTACT ENGINEER IF ANY CONFLICTS.

GENERAL UTILITY NOTE:
THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING ALL LOCAL UTILITIES AND COORDINATING ALL UTILITY SERVICES AND RELOCATIONS. UTILITIES SHOWN, OTHER THAN WATER AND SEWER, ARE SHOWN FOR INFORMATION ONLY AND HAVE NOT BEEN DESIGNED. THE CONTRACTOR IS RESPONSIBLE FOR ALL COORDINATION AND CONSTRUCTION NECESSARY TO PROVIDE A FULLY OPERATIONAL UTILITY SYSTEM PER THE STORE'S LOAD REQUIREMENTS . THE STATE AND ANY LOCAL REQUIREMENTS. THE CONTRACTOR IS TO INCLUDE ALL FEES AND REIMBURSABLE COSTS IN HIS ORIGINAL PRICE TO THE OWNER. CONTRACTOR SHALL CONTACT THE LOCAL UTILITY COMPANIES BEFORE BEGINNING WORK AT SITE TO COORDINATE INSTALLATION. INSPECTIONS AND PAY ALL ASSOCIATED FEES.

SITE UTILITY NOTES

- 1. LOCATION OF SITE UTILITIES SHALL BE VERIFIED BY GENERAL CONTRACTOR AND THE UTILITY COMPANY PROVIDING SERVICE.
- 2. GENERAL CONTRACTOR SHALL PROVIDE 2' x 2' x 6" THICK CONCRETE APRON AT ALL CLEANOUTS. VALVES AND METERS OUTSIDE OF BUILDING
- 3. CONTRACTOR WILL BE RESPONSIBLE FOR ALL TAP AND TIE ON FEES REQUIRED, AS WELL AS COST OF UNDERGROUND SERVICE CONNECTIONS TO THE
- 4. ELECTRICAL SERVICE TO PAD MOUNTED TRANSFORMER SHALL BE RUN UNDERGROUND FROM ROAD RIGHT-OF-WAY TO TRANSFORMER LOCATION. ASSOCIATED COST BY
- CONTRACTOR. 5 GENERAL CONTRACTOR SHALL FURNISH (2) - 4" TELEPHONE CONDUIT(S) AS SHOWN ON PLAN, VERIFY LOCATION OF TIE IN AT TELEPHONE COMPANY'S SERVICE LINE. PROVIDE
- NYLON PULL CORDS INSIDE CONDUIT
- 6. THRUST BLOCKS SHALL BE PROVIDED AT ALL BENDS, TEES, AND FIRE HYDRANTS. 7. DIMENSIONS SHOWN ARE TO CENTERLINE OF PIPE OR FITTING.
- 8. ALL WATER AND SANITARY LEADS TO BUILDING SHALL END 5' OUTSIDE THE BUILDING LIMITS AS SHOWN ON PLAN AND SHALL BE PROVIDED WITH A TEMPORARY PLUG AT
- 9. ALL FIRE HYDRANTS SHALL BE PROVIDED WITH AN APPROVED GATE VALVE A MAXIMUM OF 5'-0" FROM HYDRANT
- 10. ALL TRENCHING, PIPE LAYING, AND BACKFILLING SHALL BE IN ACCORDANCE WITH FEDERAL OSHA REGULATIONS.
- 11. CONTRACTOR SHALL HAVE APPROVAL OF ALL GOVERNING AGENCIES HAVING JURISDICTION OVER THIS SYSTEM PRIOR TO INSTALLATION. 12. ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH DIVISION 2 OF LOWE'S
- STANDARD SITE SPECIFICATIONS. 13. REFER TO FIRE PROTECTION SHEETS FOR LOCATION AND DETAIL OF FIRE LINE LEAD
- 14. FIRE LINE SHALL BE STUBBED UP 1' ABOVE FFE IN SPRINKLER ROOM.
- 5. REFER TO PLUMBING SHEETS FOR LOCATION OF SEWER, DOMESTIC, AND IRRIGATION

PLAN-BENDS

BENDS AND TEES

SANITARY SEWER SPECIFICATIONS

. All sanitary sewer work shall be constructed to lines and grades shown and as detailed on the drawings. The contractor shall provide GREENWOOD CPW approved standard pre-cast manholes at all bends and changes in grade in sewer lines and connections to existing sewer lines. Pipe bedding and backfill shall be carefully controlled. All sanitary sewer work shall comply with local codes and ordinances and OSHA regulations. The design engineer, GREENWOOD CPW and South Carolina Department of Health and Environmental Control, (SC DHEC), must inspect and approve and permit all sewer work before being put in service.

All work shall be constructed in strict accordance with the plans, specifications and instructions given by the owner's representative, SCDHEC, and GREENWOOD CPW. GREENWOOD CPW has delegated review authority and the City's written approval must be obtained before plans are submitted to SCDHEC 3. A pre-construction conference with the contractor, design engineer, GREENWOOD CPW Utilities/Engineering and SCDHEC will be held prior to sewer line construction.

4. All work shall be inspected by GREENWOOD CPW and SCDHEC before the approval to operate is issued. AS-BUILT drawings shall be supplied to GREENWOOD CPW in both paper and electronic format before GREENWOOD CPW's final utility approval is issued. All work shall carry minimum of one year warranty of as prescribed by GREENWOOD CPW before the City assumes line maintenance. 6. An encroachment permit for street right-of way shall be filed with the Department of Public Works

before construction starts. The contractor shall be responsible for repairs to existing roads used by his operation. The contractor shall remove dirt, mud and debris from highway/roadway. All sanitary sewer pipe shall be ductile iron pipe (DIP) or poly-vinyl chloride (P.V.C.) pipe type SDR 35

unless specified by GREENWOOD CPW. All sewer service taps shall be DIP or Schedule 40 depending upon application 9. Each joint shall be clearly and legibly marked with the manufacturer's name or identifying symbol. 10. GREENWOOD CPW shall be furnished with a letter of certification from the pipe supplier that all P.V.C.

has been stored inside from the time of manufacture. A minimum of 4 feet of cover shall be maintained over all P.V.C. pipe.

Only manhole taps will be acceptable, unless approved by GREENWOOD CPW. 13. Ductile iron pipe, class 50, shall be used in all above ground or shallow line installations and road crossings. Ductile iron pipe may be required on other projects at GREENWOOD CPW's discretion, (at depths over 12' & other specified times.) 14. All excavation shall be compacted in 1' layers and shall be clean. Backfill in road R/W shall be 95%

Std. Proctor. Backfill out of road R/W shall be 90% Std. Proctor. 15. All sewer lines shall be air tested and must conform to ASTM C828. Certain or all lines may require water testing in conjunction with air testing. A mandrel may be required to be used in all sewer lines at GREENWOOD CPW's discretion.

16. Reinforced pre-cast manholes with formed inverts shall be used whenever possible. Manholes shall have pre-cast inverts and rubber manhole pipe boots for the appropriate pipe sizes. Manholes shall be

vacuum tested. 17. Requirements for manholes without pre-cast inverts and rubber manhole pipe boots. Straight (grade and alignment) through M.H. P.V.C. pipe shall be laid instead of brick invert. Pipe shall be cut so joint does not hit M.H. The top of fourth section of pipe shall be evenly cut out after bench is poured. 18. If an invert must be poured in a manhole the bench may contain concrete bricks in concrete mix.

19. Reinforced riser rings shall be used for adjustment of ring to surface. In no case may this riser section be over 12 inches. 20. Traffic duty rated M.H. frames and covers shall be used and weigh approximately 200 pounds and 12pounds, respectively. All covers shall be vented unless otherwise specified. All surfaces of frame and cover

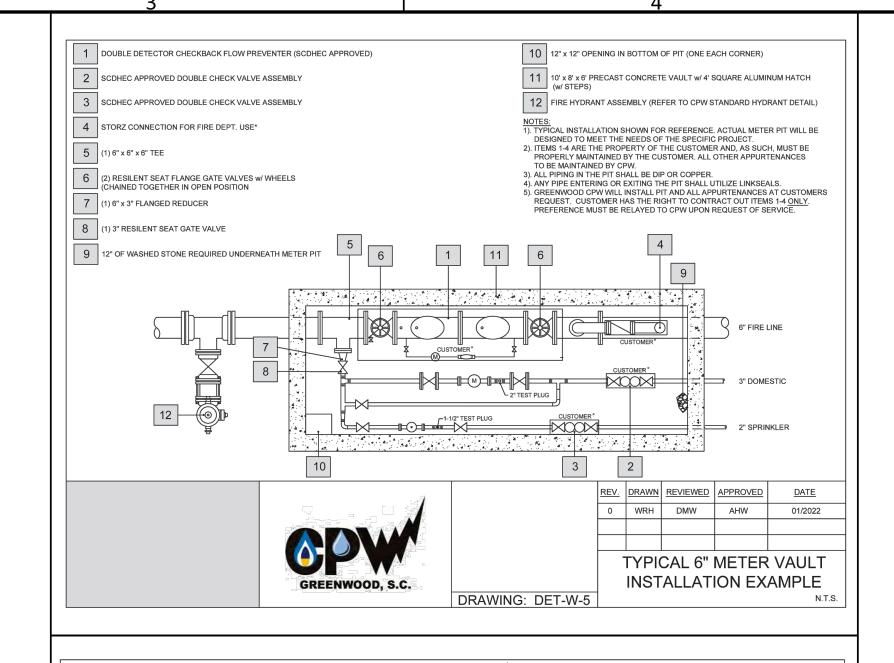
shall be bituminous coated. 21. All steps shall be plastic/rubber covered steel at 16" O.C. The contractor is responsible for top elevation of all M.H. covers to meet the finish grade of the asphalt. Any manhole located off the road or highway shall be raised approximately one foot above finish grade. 24. A drop of 18 inches maximum from the point of sewage entrance to the point of sewage overflow is

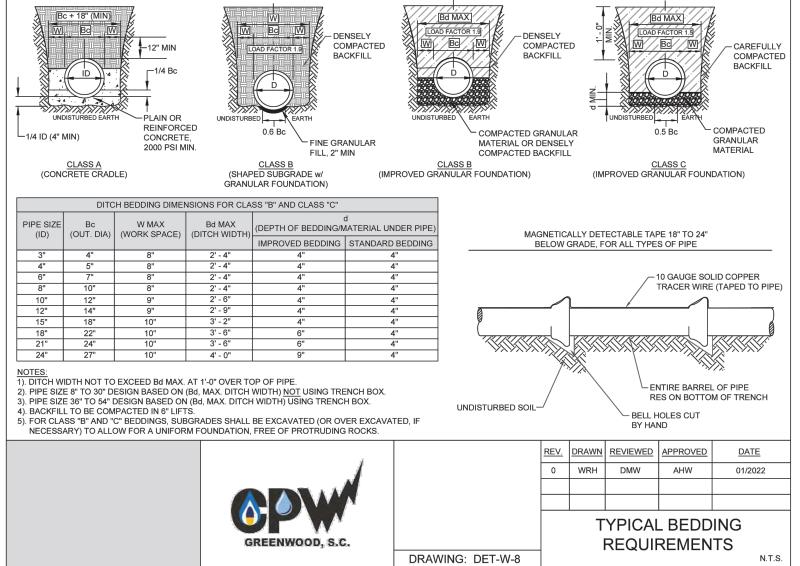
permitted provided the invert is sloped from the entrance point to the outflow point. 25. Service taps shall be ductile iron pipe or Schedule 40 PVC pipe. All taps shall be clearly marked and stubbed up on a 45 degree angle at the appropriate lot. Metal stakes/fence posts shall be used to mark the location of each tap.

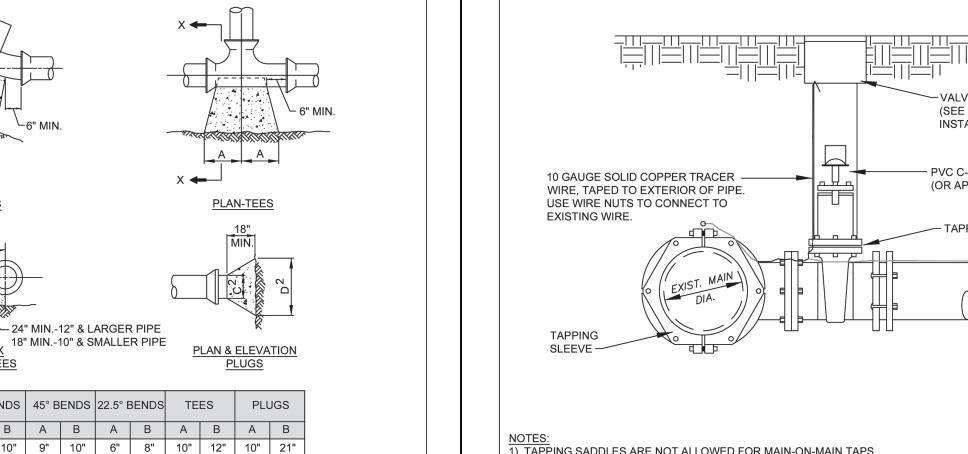
26. GREENWOOD CPW shall be legally granted a 25' easement for off public rights-of-way sewer lines. Greater widths may be required due to depths of bury of the lines.

CONTRACTOR SHALL USE "MEGALUG" RESTRAINT SYSTEM FOR M.J. DUCTILE IRON PIPE UNDERGROUND FIRE LINE. IN ADDITION, ALL FIRE HYDRANTS SHALL BE INSTALLED WITH BOTH TIE-RODS AND THRUST BLOCKS AS PER DETAILS ON DRAWING D-6.

CONTRACTOR SHALL INSTALL JOINT RESTRAINTS AS SHOWN IN THE SHOP DRAWINGS ON THIS SHEET, AS PER NFPA 24 10.8, TO BE RESTRAINED JOINT SYSTEMS (1) LOCKING MECHANICAL OR PUSH-ON JOINTS, (2) MECHANICAL JOINTS UTILIZING SETSCREW RETAINER







SIZE 90° BENDS 45° BENDS 22.5° BENDS TEES PIPE A B A B A B A B JP TO 6" | 16" | 10" | 9" | 10" | 6" | <u>8" | 10" | 12" | 10" | 21</u>
 8"
 22"
 13"
 12"
 13"
 8"
 10"
 13"
 16"
 12"
 29"

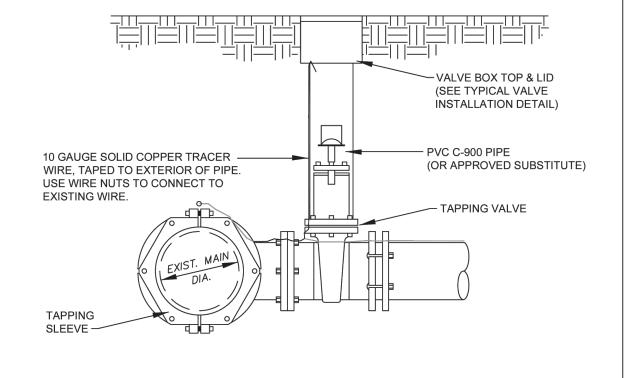
 10"
 26"
 17"
 14"
 17"
 10"
 13"
 16"
 20"
 14"
 36"

 12"
 29"
 21"
 16"
 21"
 11"
 16"
 18"
 24"
 16"
 41"
 14" 35" 24" 19" 24" 12" 20" 22" 27" 18" 48" 16" 38" 27" 21" 27" 13" 24" 24" 30" 20" 54 18" | 42" | 30" | 24" | 30" | 14" | 28" | 28" | 33" | 22" | 60' 20" 45" 33" 27" 32" 15" 32" 28" 38" 24" 64 24" | 48" | 36" | 30" | 36" | 16" | 36" | 30" | 42" | 26" | 66'

1). SIZED ON 2000 PSF SOIL AND 100 PSI STATIC PRESSURE PLUS AWWA WATER HAMMER, ALLL BEARING

SURFACE TO BE CARRIED TO UNDISTURBED GROUND. 2). CONCRETE THRUST BLOCKING TO ONLY BE USED IN SELECT CIRCUMSTANCES AND AS DIRECTED BY GREENWOOD CPW. ALL OTHER THRUST RESTRAINTS SHALL BE MEGALUG OR APPROVED EQUAL.

REV. DRAWN REVIEWED APPROVED DATE AHW 01/2022 WRH DMW STANDARD THRUST BLOCKING DRAWING: DET-W-6



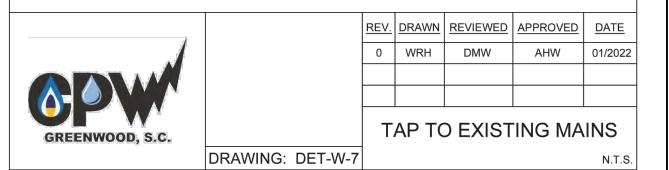
). TAPPING SADDLES ARE NOT ALLOWED FOR MAIN-ON-MAIN TAPS

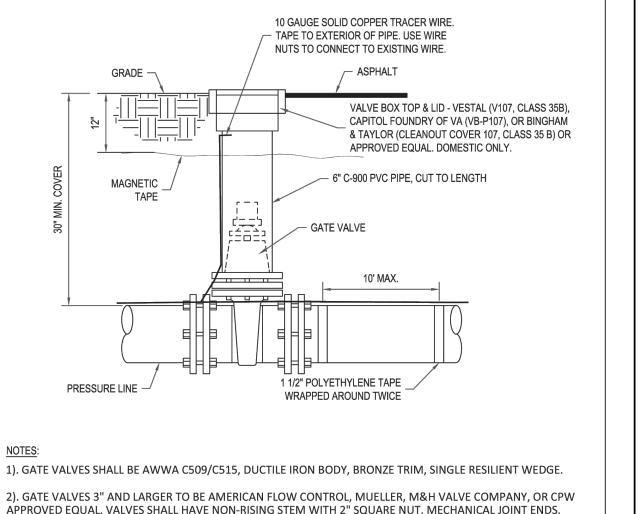
(SSTIII), JCM INDUSTRIES (439), OR APPROVED EQUAL.

). THE END OF THE TAPPING SLEEVE SHALL BE NO CLOSER THAN 4 FEET TO A JOINT 3). TAPPING SLEEVES SHALL BE CONSTRUCTED OF DUCTILE IRON OR HIGH-STRENGTH STAINLESS STEEL AND IN TWO HALVES FOR REDUCED SIZE TAPS. FULL BODY DUCTILE IRON MECHANICAL JOINT TAPPING SLEEVES SHALL BE PROVIDED FOR SIZE-ON-SIZE TAPS (SIZE-ON-SIZE TAPS ARE NOT RECOMMENDED AND SHALL BE APPROVED BY CPW). ALL TAPPING SLEEVES SHALL BE SUITABLE FOR ALL PIPE MANUFACTURED IN

ACCORDANCE WITH ANSI A 21 STANDARDS). TAPPING SLEEVES SHALL SEAL TO THE PIPE BY USE OF A CONFINED "O" RING GASKET AND ABLE TO WITHSTAND A PRESSURE TEST OF 150 PSI WITH NO LEAKAGE, IN ACCORDANCE WITH AWWA C110. A 3/4" NPT TEST PLUG SHALL BE PROVIDED FOR PRESSURE TESTING. ALL BOLTS JOINING THE TWO HALVES SHALL BE HIGH-STRENGTH, LOW ALLOY 304 STEEL, IN ACCORDANCE WITH AWWA C111 AND SHALL BE INCLUDED WITH THE SLEEVE. THE OUTLET BRANCH FLANGE SHALL BE CLASS 125 FLANGE JOINT SUITABLE FOR ATTACHMENT BY ALL OTHER MAKES OF TAPPING VALVES MEETING AWWA STANDARDS.

5). ALL DUCTILE IRON SLEEVES SHALL HAVE AN OUTSIDE BITUMINOUS COATING IN ACCORDANCE WITH AWWA C110 AND INSIDE CEMENT-MORTAR LINING IN ACCORDANCE WITH AWWA C104. ALL STEEL SLEEVES SHALL BE FINISHED WITH AN EPOXY COATING BOTH INSIDE AND OUTSIDE. 8). PRODUCT SHALL BE MECHANICAL JOINT, MANUFACTURED BY <u>MUELLER/HYMAX (H304), FORD (FTSS), ROMAC</u>

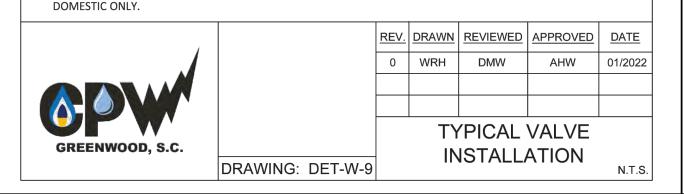




APPROVED EQUAL. VALVES SHALL HAVE NON-RISING STEM WITH 2" SQUARE NUT, MECHANICAL JOINT ENDS, INTERIOR AND EXTERIOR FUSION BONDED EPOZY COATING, AND OPEN LEFT. VALVES SHALL BE UL LISTED, FM APPROVED, AND CERTIFIED TO ANSI/NSF 61 & 372.

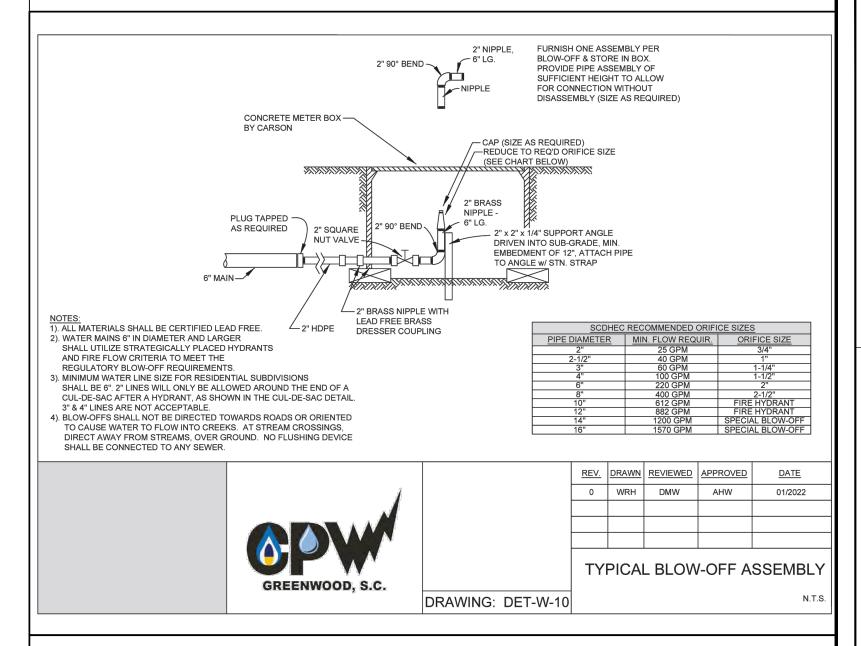
3). 2" GATE VALVES SHALL BE MUELLER, AMERICAN FLOW CONTROL, OR CPW APPROVED EQUAL. VALVES SHALL HAVE NON-RISING STEM WITH SQUARE NUT, THREADED JOINT ENDS, INTERIOR AND EXTERIOR FUSION BONDED EPOXY COATING, AND OPEN LEFT. SQUARE NUT FOR STEM SHALL BE MANGANESE BRONZE WITH THREADS ACCURATELY CUT TO GAGE CONFORMING TO ASTM B 138/138M ALLOY A.

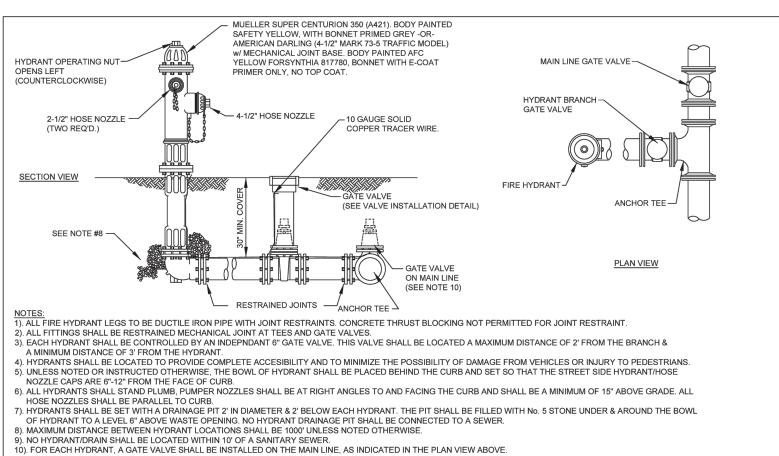
4). UNLESS OTHERWISE NOTED, PROVIDE CIRCULAR CAST IRON VALVE BOX TOP SECTION, WITH DROP TYPE COVER FOR ALL BURIED GATE VALVES, INCLUDING BYPASS VALVES. THE VALVE BOX MUST BE SUITABLE FOR TRAFFIC LOADING IN ACCORDANCE WITH ASTM 48, CLASS 35. DO NOT REST THE VALVE BOX BASE ON FLANGED JOINTS OF THE VALVE BONNET. CASE THE WORD "WATER" IN RAISED LETTERS ON THE VALVE BOX COVER.



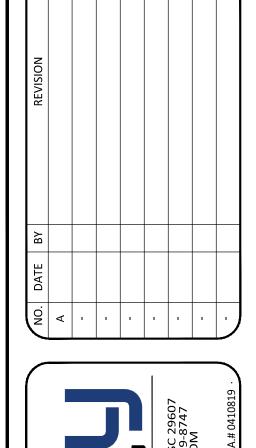
GENERAL NOTES:

- 1 VERIFY LOCATION OF ALL EXISTING UTILITIES CALL P.U.P.S. BEFORE YOU DIG (811)
- 2 4'-0" MINIMUM COVER BELOW FINISH GRADE 4'-0" MINIMUM COVER BELOW EDGE OF PAVEMENT ALSO IF PIPE IS LAID IN AN EXISTING DITCH LINE OR A POSSIBLE DITCH LINE: MINIMUM COVER IS 3'-6" BELOW
- 3 CONTRACTOR TO PROVIDE ALL MATERIALS, LABOR AND EQUIPMENT, UNLESS NOTED OTHERWISE.
- 4 THE CONTRACTOR IS RESPONSIBLE FOR ALL CLEARING, GRUBBING AND ASPHALT DISPOSAL
- 5 ALL WATER AND SEWER LINE CONSTRUCTION TO CONFORM WITH CURRENT CPW SPECIFICATIONS, DETAILS, DESIGN CRITERA, CONSTRUCTION PROCEDURES AND SCOOT REGULATIONS, USE DOMESTIC MEGALUGS/FIELD LOCK GASKETS.
- 6 ALL AREAS DISTURBED ARE TO BE SEEDED IN ACCORDANCE WITH ACCEPTED PRACTICES OF THE LOCAL SCOOT AND COUNTY REGULATIONS, SEEDED AREAS ARE TO BE MULCHED OR HYDRO-SEEDED.
- 7 THE CONTRACTOR IS RESPONSIBLE FOR CONDUCTING WORK IN ACCORDANCE WITH THE LATEST OSHA REQUIREMENTS AND REGULATIONS; AND SCDOT PERMIT REQUIREMENTS
- 8 THE CONTRACTOR IS RESPONSIBLE FOR DISINFECTING AND PRESSURE TESTING PIPE, INCLUDING ALL NECESSARY PIPING REQUIRED



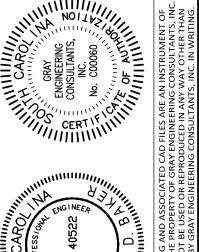


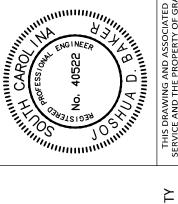
REV. DRAWN REVIEWED APPROVED DATE WRH DMW AHW FIRE HYDRANT ASSEMBLY (COMPLETE) DRAWING: DET-W-11





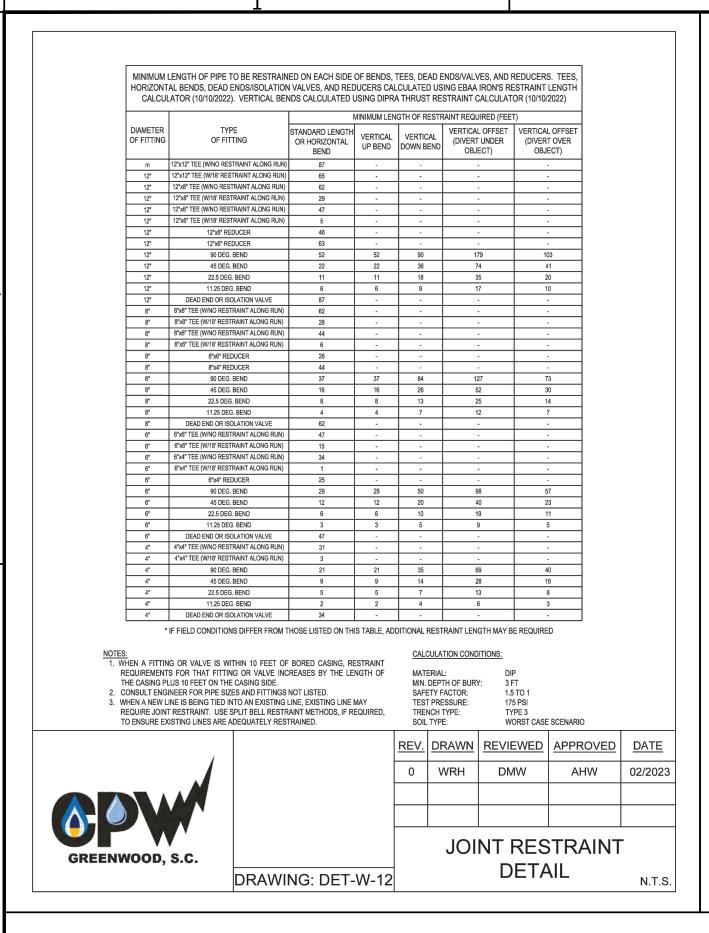


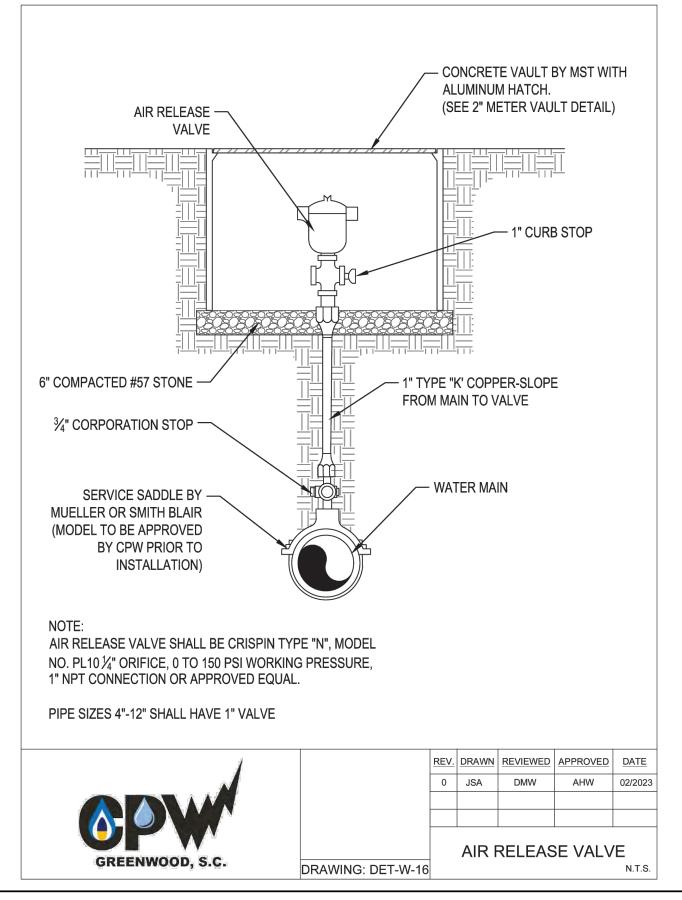


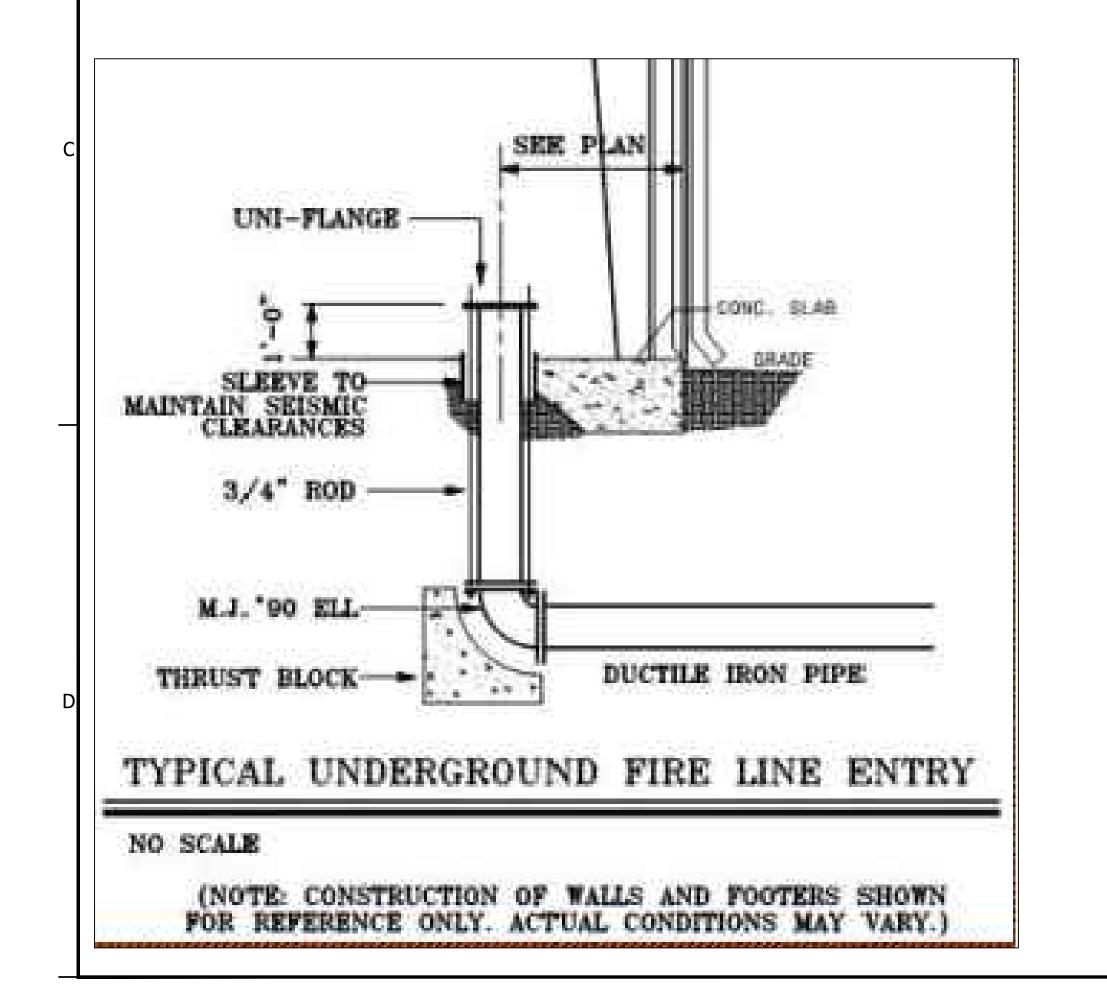


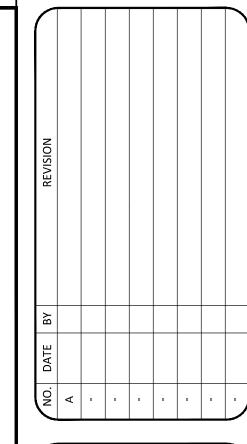
PROPOSED IOME 2 SUITE BY HILTON

SCALE: AS NOTED PROJECT MANAGER: DRAWN BY: PROJECT DATE: 5/3/2023 JOB No.: 2023104 PLOT DATE: 3/26/25

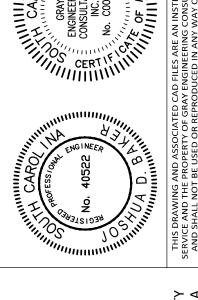








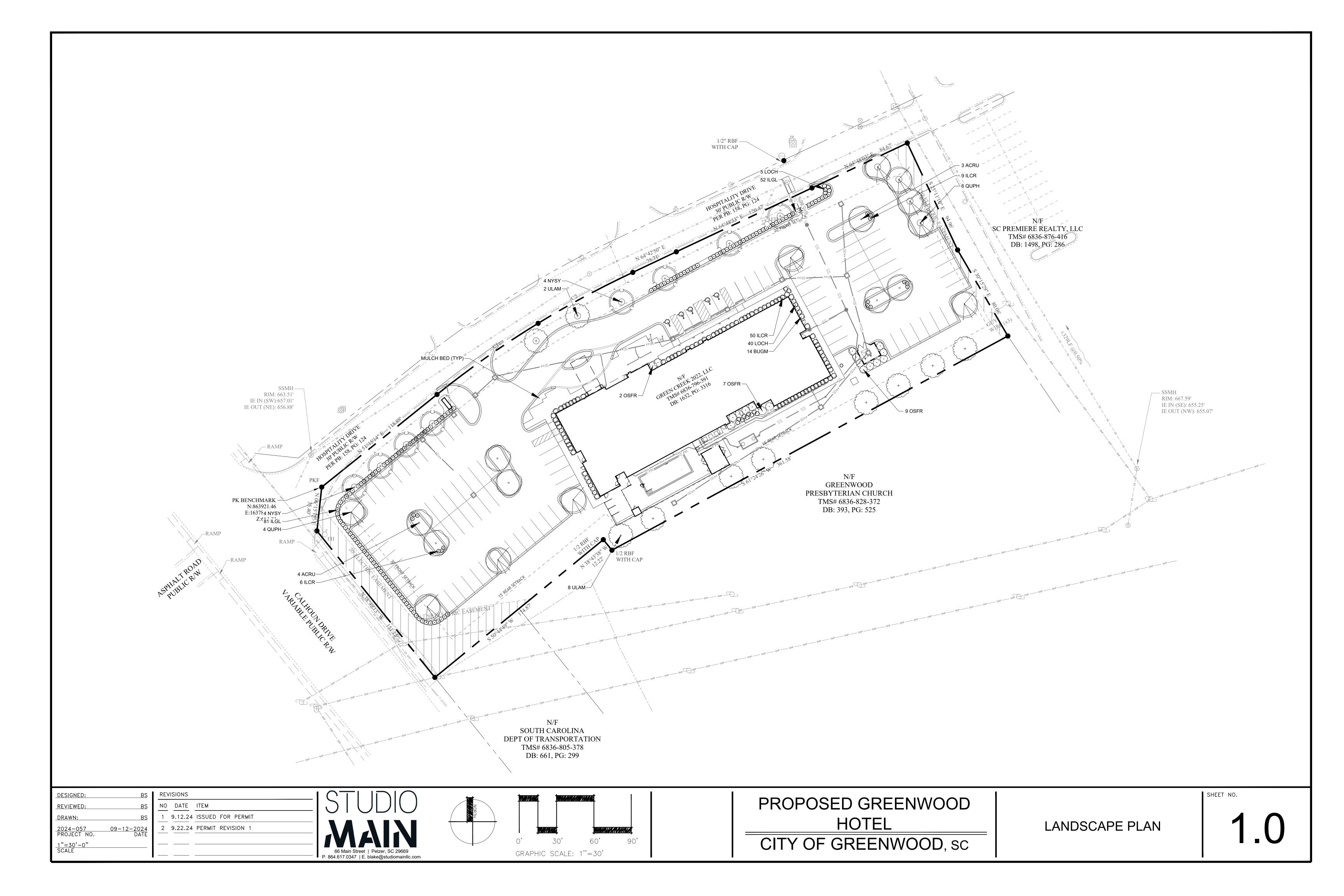


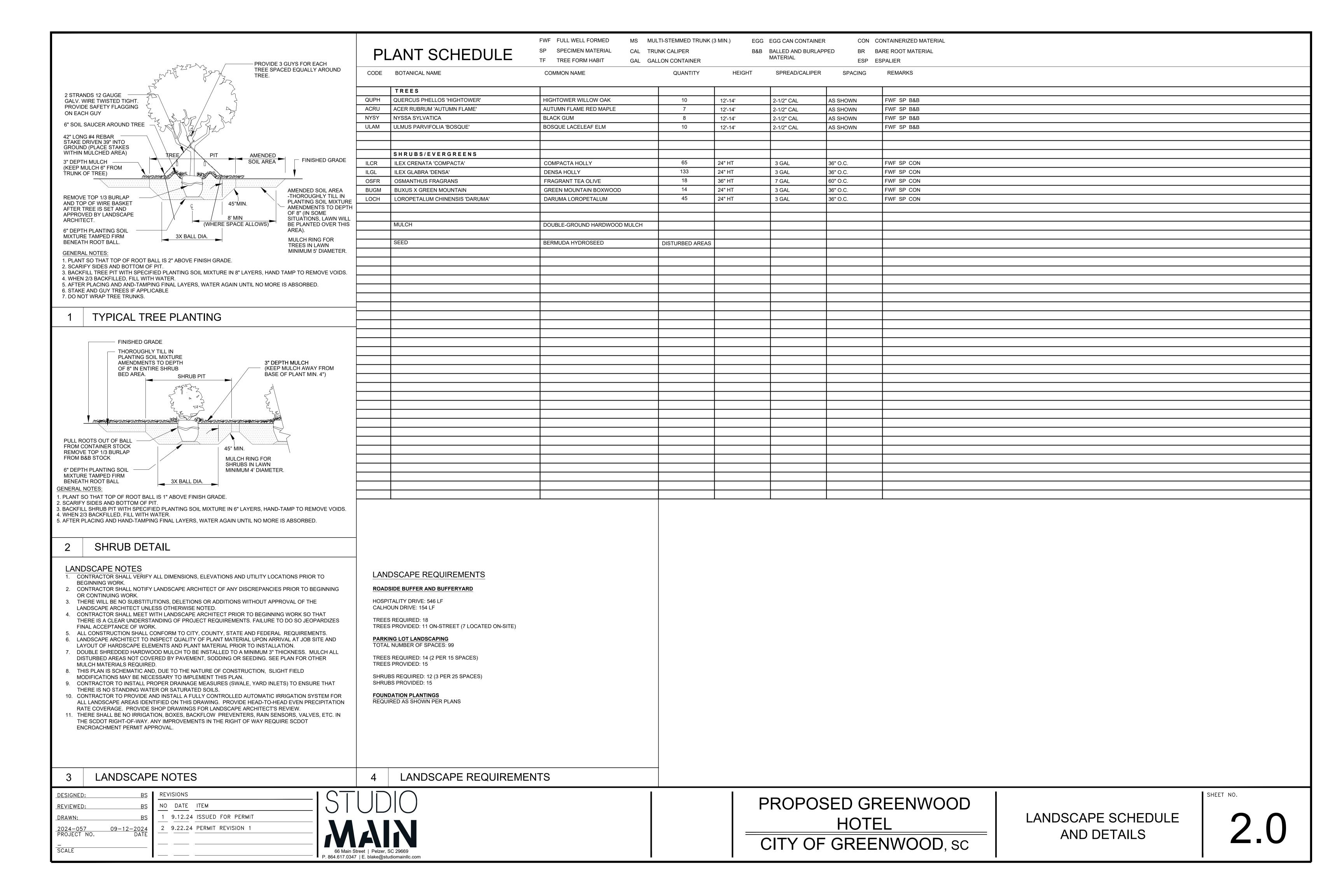


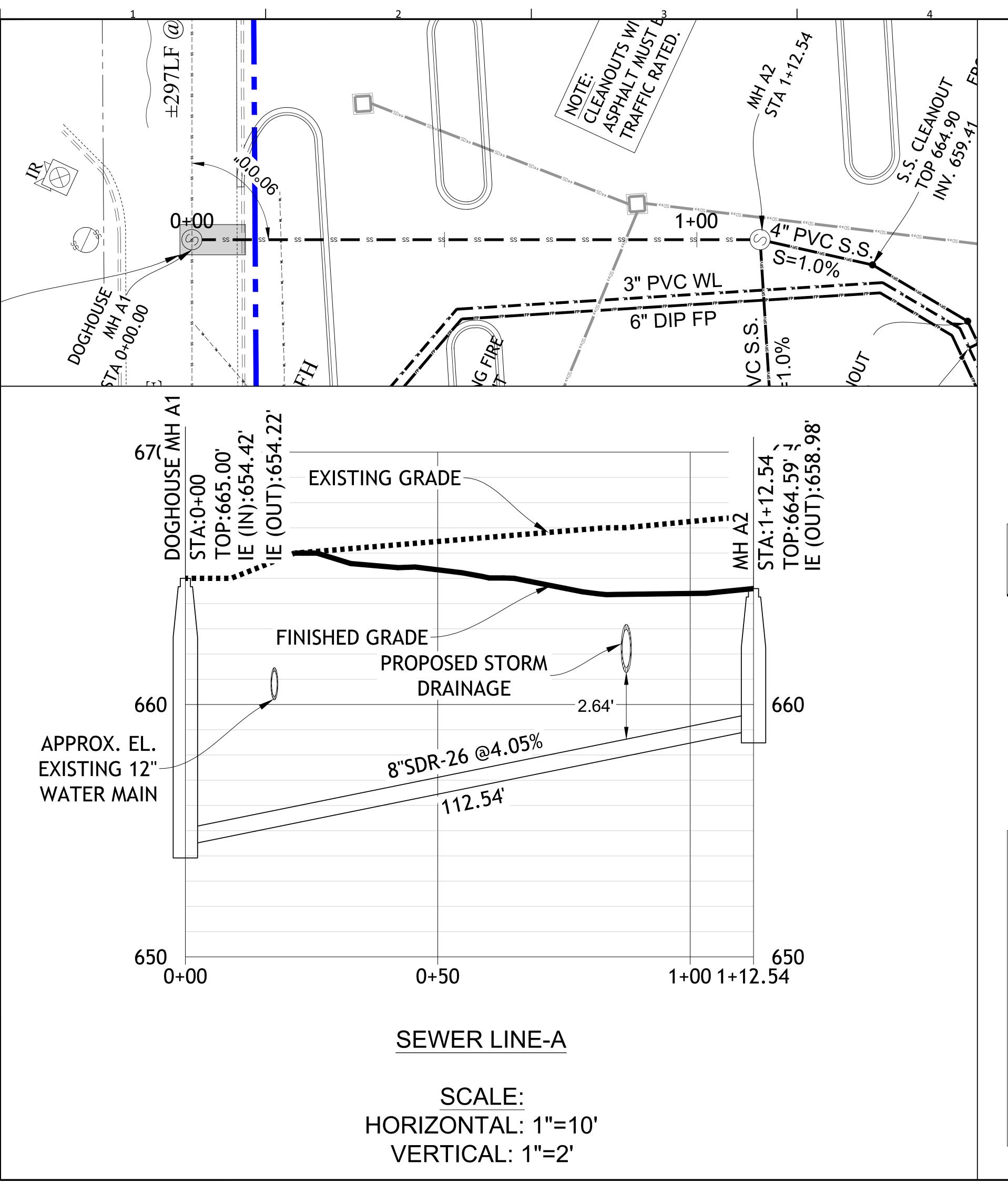
PROPOSED HOME 2 SUITES BY HILTON

HON

SCALE: AS NOTED
PROJECT MANAGER: ZDJ
DRAWN BY: MSG
PROJECT DATE: 5/3/2023
JOB No.: 2023104
PLOT DATE: 3/26/25
SHEET
D-13







SANITARY SEWER LINES NOTES

- 1. M.H. FRAME AND COVER SHALL BE MF-11 AND MC-18 RESPECTIVELY AS MANUFACTURED BY SUMTER MACHINERY COMPANY OR SEWER AUTHORITY APPROVED EQUAL. FRAME SHALL WEIGH 208 POUNDS AND COVER SHALL WEIGH 120 POUNDS. ALL SURFACES OF FRAME AND COVER SHALL BE BITUMINOUS COATED.
- 2. STEPS SHALL BE COPOLYMER POLYPROPYLENE PLASTIC, REINFORCED WITH 1/2" GRADE 60 REINFORCEMENT OR SEWER DISTRICT APPROVED
- 3. THE CONTRACTOR IS RESPONSIBLE FOR TOP ELEVATION OR ALL M.H. COVER TO ALLOW FOR THICKNESS OF ASPHALT PAVEMENT, STONE OR
- TOPSOIL IN GRASSED AREAS TO MEET FINISH GRADE ELEVATIONS. 4. BENCH MAY CONTAIN BROKEN BRICKS, TILE, ETC., IN MORTAR MIX.
- 5. REINFORCED PRECAST M.H. WITH FORMED INVERTS AS MANUFACTURED BY TINDALL CONCRETE COMPANY ("G" SERIES) CONFORMING TO ASTM C-478, OR APPROVED EQUAL MAY BE USED. PRECAST CONCRETE RINGS, NOT EXCEEDING 12 INCHES MAY BE USED FOR ADJUSTMENT OF RING TO SURFACE. ADJUSTMENTS GREATER THAN 12 INCHES REQUIRE ADDITIONAL BARREL RISER SECTIONS INSTALLED BELOW THE CONE SECTION.
- 6. FOR STRAIGHT (GRADE AND ALIGNMENT) THROUGH M.H., P.V.C. PIPE SHALL BE LAID INSTEAD OF BRICK INVERT. PIPE SHALL BE CUT SO JOINT DOES NOT HIT IN M.H. TOP ONE-FOURTH SECTION OF PIPE SHALL BE EVENLY BROKEN OUT AFTER BENCH IS POURED.
- 7. A DROP OF 24 INCHES MAXMUM FROM THE POINT OF SEWAGE ENTRANCE TO THE POINT OF SEWAGE OUTFLOW IS PERMITTED PROVIDED THE INVERT IS SLOPED FROM THE ENTRANCE POINT TO THE OUTFLOW POINT. CONTRACTOR SHALL MATCH "CROWN OF PIPE" WHEN CONNECTING NEW SEWER LINE TO EXSTING.
- 8. ANY MANHOLES LOCATED OFF OF ROADS OR HIGHWAY RIGHT-OF-WAY SHALL BE RAISED APPROXMATELY ONE (1) FOOT
- 9. POLYVINYL CHLORIDE (PVC) SEWER PIPE SHALL CONFORM TO ASTM D-3034, SDR-35, INSTALLED IN ACCORDANCE WITH ASTM D-2321. ELASTOMERIC JOINTS SHALL COMPLY WITH ASTM D-3212. SDR-35 SHALL BE INSTALLED IN CLASS "B" BEDDING AS DETAILED ON DRAWINGS. NO ULTRARIB PIPE ALLOWED.
- 10. DUCTILE IRON PIPE SHALL BE CLASS 50, CONFORMING TO AWWA C151, FURNISHED AND INSTALLED IN ACCORDANCE WITH THE SPECIFICATIONS. ALL DUCTILE IRON PIPE SHALL BE LINED WITH PROTECTO 401 (INSTALLATION OF GRAVITY SEWER). JOINTS IN D.I.P. AT THE CREEK CROSSING SHALL BE RESTRAINED FROM MOVEMENT (LOK-TIGHT OR APPROVED EQUAL).
- 11. EACH JOINT SHALL BE CLEARLY AND LEGIBLY MARKED WITH THE MANUFACTURER'S NAME OR IDENTIFYING SYMBOL WITH THE LETTERS E.S. APPEARING ON THE EXTERIOR OF THE PIPE NEAR THE SOCKET.
- 12. MECHANICAL JOINT COUPLINGS SHALL BE USED AT ALL PIPE TRANSITIONS.
- 13. A MIN. OF 4 FT. OF COVER SHALL BE MAINTAINED OVER ALL PVC
- 14. ALL SANITARY SEWER LINES SHALL BE AIR TESTED AND MUST CONFORM TO ASTM C828, LATEST REVISION.
- 15. ALL FLEXBLE PIPE SHALL BE TESTED BY PULLING A MANDREL, GO/NO GO, DEVICE BY HAND NO EARLIER THAN 30 DAYS AFTER THE TRENCHING HAS BEEN COMPLETELY BACKFILLED. THE MAXMUM ALLOWABLE PIPE DEFLECTION SHALL NOT EXCEED 5 PERCENT OF NOMINAL INSIDE PIPE DIAMETER.
- 16. WATER LINES SHALL BE INSTALLED AFTER ALL GRAVITY SEWER LINES ARE INSTALLED.
- 7. THIS CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF ALL EXSTING UNDERGROUND UTILITIES BEFORE COMMENCING WORK. CONTACT WATER, TELEPHONE, POWER AND GAS COMPANY BEFORE EXCAVATION
- 8. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SURVEY WORK NECESSARY TO STAKE SEWER LINES. THE CENTERLINE AND ALL MANHOLE LOCATIONS SHALL BE STAKED IN THE FIELD. THE OWNER'S SURVEYOR WILL SET ALL LOT CORNERS. CONTRACTOR

SHALL PROTECT ALL PROPERTY MARKERS

19. ALL UTILITY TRENCHES SHALL BE THOROUGHLY COMPACTED TO PREVENT SETTLEMENT AND DAMAGE TO FUTURE PAVEMENT AND

- 20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRS TO EXSTING ROADS USED BY HIS OPERATION. THE CONTRACTOR SHALL REMOVE MUD AND DEBRIS FROM HIGHWAY AND NOT ALLOW DUST TO BECOME A
- NUISANCE OR SAFETY HAZARD. 21. ALL SANITARY SEWER WORK SHALL BE CONSTRUCTED TO LINES AND GRADES SHOWN AS DETAILED ON THE DRAWING. THE CONTRACTOR SHALL PROVIDE STANDARD MANHOLES AT ALL BENDS AND CHANGES IN GRADE IN SEWER LINES AND CONNECTIONS TO EXSTING SEWER LINES. PIPE BEDDING AND BACKFILL SHALL BE

CAREFULLY CONTROLLED. ALL SANITARY SEWER WORK SHALL COMPLY

SEWER WORK AS REQUIRED BEFORE BEING PUT IN SERVICE. 22. ALL WORK SHALL BE CONSTRUCTED IN STRICT ACCORDANCE WITH THE PLANS AND SPECIFICATIONS AND INSTRUCTIONS GIVEN BY THE OWNER'S REPRESENTATIVE, THE STATE HEALTH AUTHORITY AND THE

WITH LOCAL CODES AN ORDINANCES. THE ENGINEER. THE LOCAL

AUTHORITY AND THE STATE HEALTH AUTHORITY MUST INSPECT ALL

- 23. CONTRACTOR SHALL NOT TIE NEW SEWER LINE TO EXSTING MANHOLE UNTIL ALL CONSTRUCTION IS APPROVED, TESTED AND ACCEPTED BY
- 24. ALL SEWER LINES IN RELATION TO WATER LINES MUST CONFORM TO "TEN STATES STANDARDS", SECTION 38.3, 1990 EDITION, AT A

THE LOCAL GOVERNING AUTHORITY.

- 25. THE CONTRACTOR SHALL GRASS ALL RIGHT-OF-WAY IN ACCORDANCE WITH SPECIFICATIONS FOR GRASSING.
- 26. A PRE-CONSTRUCTION CONFERENCE WITH THE CONTRACTOR, SEWER AUTHORITY, STATE HEALTH AUTHORITY, AND THE ENGINEER WILL BE HELD PRIOR TO SEWER LINE CONSTRUCTION.
- 27. CONTRACTOR TO ASSUME CLASS "B" BEDDING FOR SDR-35 PVC IN HIS BID PROPOSAL. CLASS "A" BEDDING WILL BE PAID FOR AS AN "EXTRA" SHOULD FIELD CONDITIONS REQUIRE THIS BEDDING.
- 28. COUPLINGS SHALL BE HYMAX COUPLING 984-260 OR 1200-260 AS MANUFACTURED BY TOTAL PIPING SOLUTIONS, OLEAN, NEW YORK,
- 29. SANITARY SEWER SERVICES SHALL BE INSTALLED PER DETAILS. LOCATION OF SERVICE LINES SHALL BE MEASURED FROM MANHOLES AND FURNISHED WITH "AS-BUILT" DRAWINGS TO THE ENGINEER. FACH LOT OR BUILDING SHALL HAVE (1) 6" OR 4" SERVICE LINE AS SPECIFIED FOR ON THE DRAWINGS, PLUGGED AT R\W LINE OR WITHIN 5' OF THE BUILDING. NEW SERVICE LINES SHALL BE INSTALLED AS REQUIRED ON EXSTING SEWER LINES FOR APPLICABLE LOTS OR BUILDINGS. MINIMUM SLOPE ON ALL 6" SERVICE LINES SHALL BE 1% AND ON ALL 4" SERVICE LINES SHALL
- 30. ALL WATER AND SEWER LINE BACKFILL IN ROAD R\W OR PAVED AREAS SHALL BE COMPACTED TO 95% STD. PROCTOR BY CONTRACTOR. THE OWNER'S REPRESENTATIVE SHALL TEST COMPACTION.
- 31. THE UTILITY CONTRACTOR SHALL BLADE ROADS SMOOTH READY FOR

PAVING AFTER ALL UTILITY CONSTRUCTION IS COMPLETE.

- 32. ALL SEWER LINE WORK SHALL BE "APPROVED" BY THE STATE HEALTH AND LOCAL AUTHORITY, AND "APPROVED" AS-BUILT DRAWINGS SHALL BE FURNISH TO THE OWNER BEFORE CONTRACTOR RECEIVES FINAL
- 33. THE CONTRACTOR SHALL PAY ALL SEWER TAP FEES TO THE LOCAL GOVERNING AUTHORITY. THE CONTRACTOR SHALL INSTALL TEE AND RUN THE SERVICE LINES TO ROAD RIGHT-OF-WAY.
- 4. THE CONTRACTOR SHALL NOT PERFORM ANY WORK UNTIL HE HAS OBTAINED COPIES OF ALL NECESSARY ENCROACHMENT AND
- 5. THIS CONTRACTOR SHALL SHORE TRENCH EXCAVATION AND USE PIPE BOX TO COMPLY WITH ALL OSHA SAFETY REGULATIONS. IT IS THE CONTRACTORS SOLE RESPONSIBILITY TO PROVIDE JOB SITE SAFETY AND COMPLY WITH ALL SAFETY REQUIREMENTS. THE CONTRACTOR IS RESPONSIBLE FOR HIS MEANS AND METHODS OF CONSTRUCTION.

CONTRACTOR NOTE:

CONTRACTOR TO VERIFY EXISTING INVERTS AND ELEVATIONS IN THE FIELD. IF ANY DISCREPANCY IS OBSERVED, CONTRACTOR TO NOTIFY ENGINEER

- D.I.P. IS REQUIRED WHERE COVER IS LESS THAN FOUR FEET.
- 2. D.I.P. IS REQUIRED WHERE CLEARANCE BETWEEN STORM DRAINAGE AND SEWER IS LESS THAN 18". IF SEPARATION IS LESS THEN 18" ONE 18' OR 20' DIP CENTERED AT CROSSING SHALL BE USED.
- SEWER LINE WILL BE INSTALLED AFTER FINISH GRADE HAS BEEN ESTABLISHED 4. MANHOLES RIMS OUTSIDE ROAD R/W MUST BE A MINIMUM OF 24" ABOVE FINISHED GRADE.
- CONTRACTOR TO CORE DRILL THE EXISTING MANHOLES AT THE TIE-IN CONNECTIONS AND INSTALL A FLEXIBLE RUBBER BOOT. CONNECTION SHALL B WATERTIGHT. CONTRACTOR SHALL CORE DRILL THE TABLE OF THE EXISTING MANHOLE TO FORM AN INVERT OR CHANNEL ON TOP OF THE TABLE. GREER CPW SHALL BE CONTACTED TO INSPECT THE INSIDE AND OUTSIDE OF THE MANHOLE PRIOR TO BACKFILL
- PRECAST CONCRETE RINGS, NOT EXCEEDING 12-INCHES, SHALL BE USED TO ADJUST THE HEIGHT OF THE MANHOLE FRAME AND COVER TO SURFACE. NO MORE THAN TWO (2) RINGS SHALL BE USED. ADJUSTMENTS GREATER THAN 12-INCHES SHALL REQUIRE AN ADDITIONAL BARREL RISER SECTION INSTALLED BELOW THE CONE SECTION.
- D.I.P. SHALL BE USED FOR A SANITARY SEWER SERVICE WITH LESS THAN 24-INCHES (2-FEET) OF FINAL GRADE (GROUND COVER) OR IF SEPARATION BETWEEN THE STORM DRAINAGE PIPE AND SANITARY SEWER SERVICE IS LESS THAN 18-INCHES.
- C900 PVC PIPE SHALL BE USED FOR A SANITARY SEWER SERVICE WITH AT LEAST 18-INCHES AND 24-INCHES (2-FEET) OF SEPARATION BETWEEN THE STORM DRAIN PIPE AND SANITARY SEWER SERVICE. THE SERVICE SHALL BE BEDDED WITH STONE - AT LEAST 6-INCHES ABOVE THE TOP OF PIPE/SANITARY SEWER SERVICE.
- D.I.P. SHALL BE LINED WITH PROTECTO 401

LEGEND

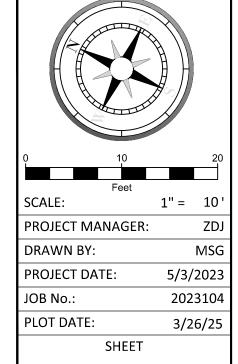
EXISTING GRADE FINISHED GRADE

> STORMDRAINAGE (RCP UNLESS NOTED)

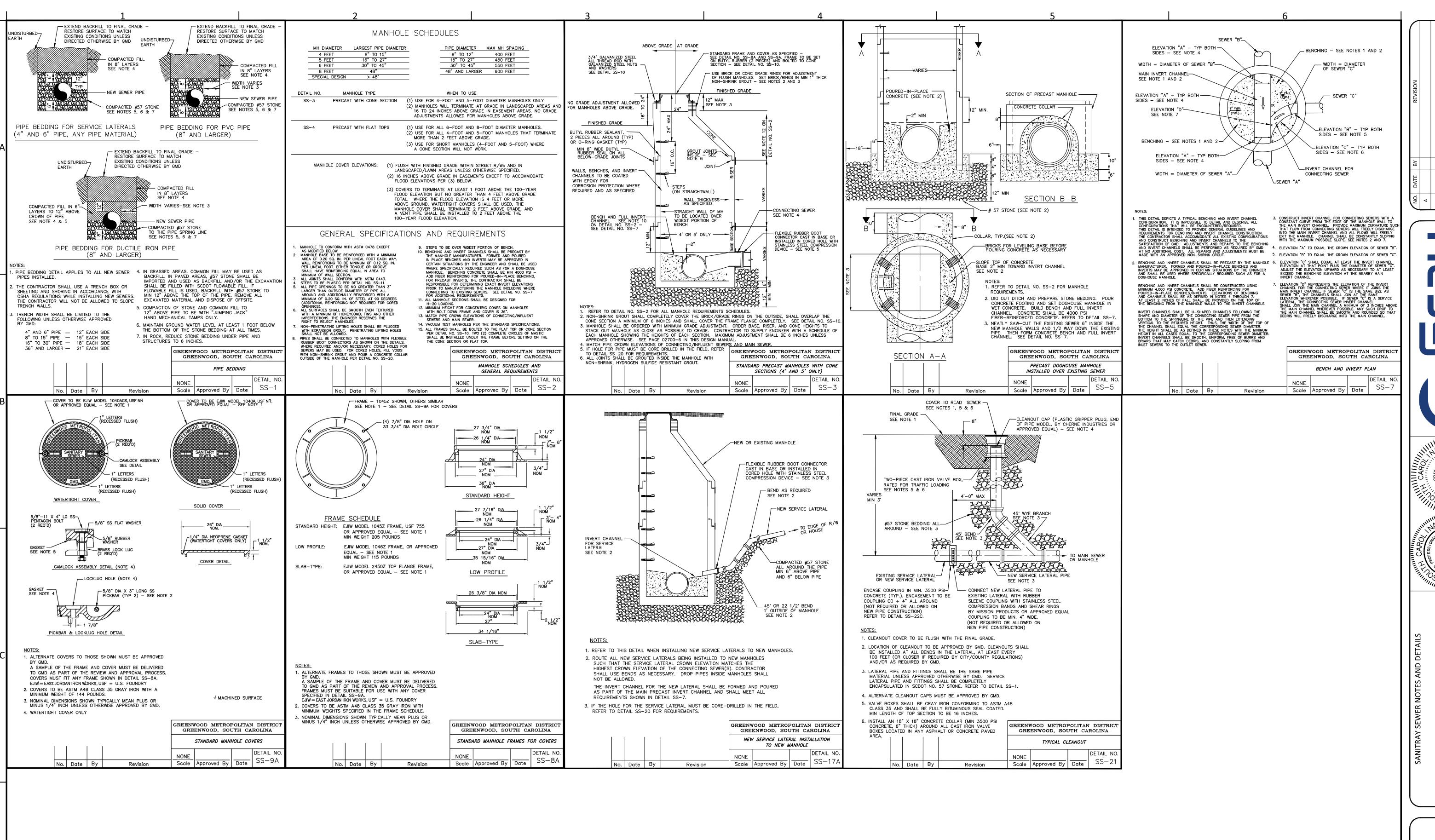
SAFETY NOTE TO CONTRACTOR
THE CONTRACTOR SHALL SHORE TRENCH EXCAVATION AND USE PIPE BOX
TO COMPLY WITH ALL OSHA SAFETY REGULATIONS. IT IS THE
CONTRACTOR'S SOLE RESPONSIBILITY TO PROVIDE JOB SITE SAFETY AND COMPLY WITH ALL SAFETY REQUIREMENTS. THE CONTRACTOR IS RESPONSIBLE FOR HIS MEANS AND METHODS OF CONSTRUCTION.

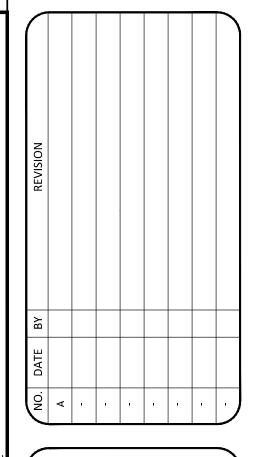


<u>UTILITY NOTE TO CONTRACTOR</u> THE UTILITIES SHOWN ARE FOR THE CONTRACTOR'S CONVENIENCE ONLY THERE MAY BE OTHER UTILITIES NOT SHOWN ON THESE PLANS. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE LOCATIONS SHOWN AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATIONS OF ALL UTILITIES WITHIN THE LIMITS OF THE WORK. ALL DAMAGE MADE TO EXISTING UTILITIES BY THE CONTRACTOR SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

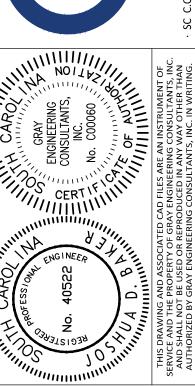


PROPOSED HOME 2 SUITES BY HILTON









PROPOSED HOME 2 SUITES BY HILTON

SCALE:
PROJECT MANAGER: ZDJ
DRAWN BY: MSG
PROJECT DATE: 5/3/2023
JOB No.: 2023104
PLOT DATE: 3/26/25
SHEET
SHEET

2023104 - Greenwood Home2Suites - D16