NOVANT HEALTH FAMILY MEDICAL CLINIC- GREENFIELD

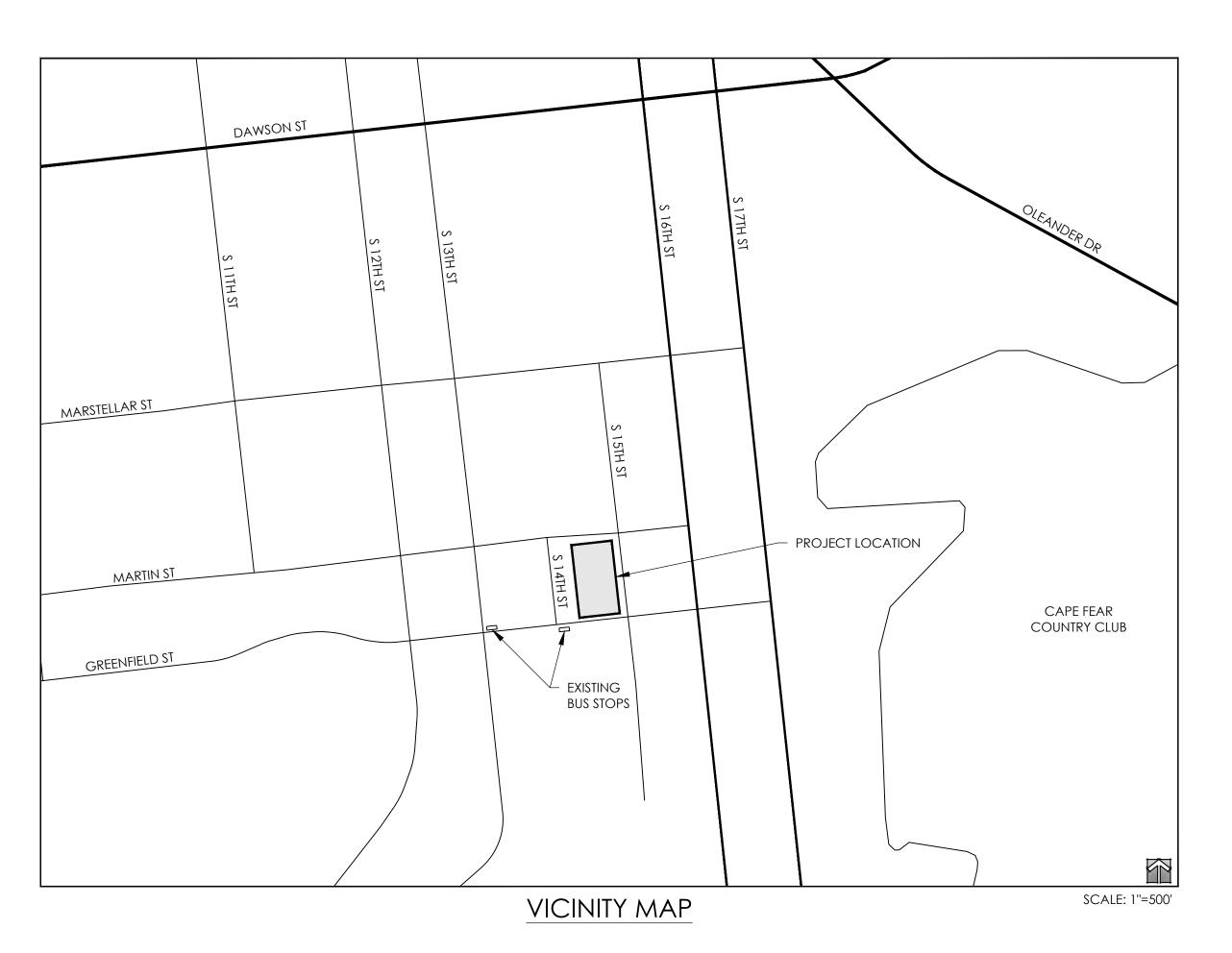
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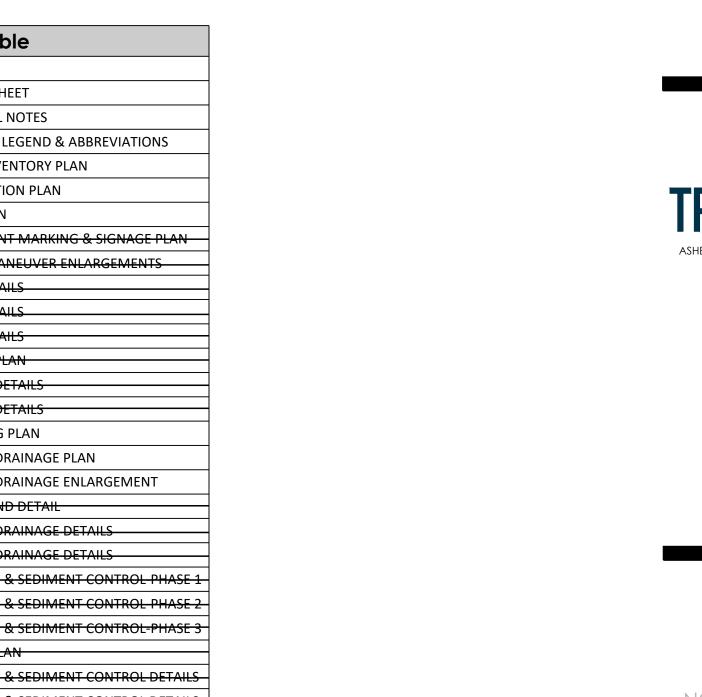
1423 GREENFIELD STREET
WILMINGTON | NORTH CAROLINA | 28401

PERMIT SUBMITTAL

Submittal: JANUARY 1ST, 2023



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THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

NOTICE: CONSTRUC

CONSTRUCTION SITE SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR NEITHER THE OWNER NOR THE ENGINEER SHALL BE EXPECTED TO ASSUME ANY RESPONSIBILITY FOR SAFETY OF THE WORK, OF PERSONS ENGAGED IN THE WORK, OF ANY NEARBY STRUCTURES, OR OF ANY OTHER PERSONS.



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FAMILY MEDICAL CLINIC -GREENFIELD

NOVANT HEALTH

1423 GREENFIELD STREET, WILMINGTON, NC

No.	Description	Date

PERMIT SET

COVER SHEET

PROJECT NUMBER

21-025

ISSUE DATE	
	01/12/2
CHECKED	
L. DICKSON	
SHEET BY	
J. ADRIATICO	G-UU

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL CITY OF WILMINGTON AND NCDOT STANDARDS AND SPECIFICATIONS

PERMIT	S
PERMIT	PERMIT NUMBER
NEW HANOVER COUNTY EROSION CONTROL	-
STATE SEWER PERMIT	-
STATE WATER PERMIT	-

PROJECT TEAM

OWNER/DEVELOPER

NOVANT HEALTH

3600 COUNTRY CLUB DR STE 201

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GENERAL EXISTING CONDITIONS NOTES

- I. THE LOCATION AND SIZE OF EXISTING UTILITIES ARE SHOWN AS APPROXIMATE ONLY. THE CONTRACTOR IS RESPONSIBLE FOR HORIZONTAL AND VERTICAL LOCATION AND THE PROTECTION OF ALL PUBLIC OR PRIVATE UTILITIES (SHOWN AND NOT SHOWN) WHICH LIE IN OR ADJACENT TO THE CONSTRUCTION SITE.
- 2. EXISTING SITE BOUNDARY AND TOPOGRAPHIC, UTILITY AND OFF-SITE ROADWAY SURVEY INFORMATION WAS TAKEN FROM SURVEY BY ACRO DEVELOPMENT SERVICES, PERFORMED SEPTEMBER 29,2021. THESE PLANS DO NOT ASSUME ANY LIABILITY FOR ANY EXISTING INFORMATION BOTH SHOWN AND NOT SHOWN ON THE SURVEY AND ANY CHANGES TO THE EXISTING CONDITIONS THAT MAY HAVE OCCURRED AFTER THE SURVEY WAS ISSUED. CONTRACTOR SHALL VERIFY ALL EXISTING SITE CONDITIONS PRIOR TO CONSTRUCTION.
- 3. THIS SITE IS/IS NOT LOCATED WITHIN SPECIAL FLOOD HAZARD AREAS AS DETERMINED BY FEMA AND DEPICTED ON F.I.R.M. MAP NO. 3720312700K, DATED AUGUST 28, 2018 AS BEING WITHIN ZONE "X-OTHER AREA".

GENERAL DEMOLITION NOTES

- ALL WORK TO BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS
- 2. ALL CONTRACTORS SHALL VISIT THE SITE AND OBSERVE EXISTING CONDITIONS PRIOR TO BIDDING. 3. IN GENERAL, FEATURES TO BE REMOVED UNDER THIS CONTRACT SHALL BE INDICATED ON THE DEMOLITION
- AND EROSION CONTROL PLANS: - ALL EXISTING STRUCTURES AND UTILITIES SHALL BE REMOVED AS SHOWN ON THE PLANS TO ALLOW FOR
 - NEW CONSTRUCTION; - ALL UTILITIES OR STRUCTURES NOT INDICATED FOR REMOVAL OR MODIFICATION ARE TO REMAIN, AND TO BE PROTECTED FROM DAMAGE.
 - THE CONTRACTOR SHALL CONTACT OWNER IN EVENT REMOVAL/MODIFICATION OF FEATURE(S) NOT PERMITTED BECOMES REQUIRED TO COMPLETE THE WORK, CONTRACTOR WILL WAIT FOR DIRECTION
- FROM OWNER PRIOR TO PROCEEDING. 4. THE CONTRACTOR SHALL PROTECT ALL MONUMENTS, IRON PINS, AND PROPERTY CORNERS DURING
- 5. PRIOR TO DEMOLISHING EXISTING STRUCTURES, MAKE AN INSPECTION FOR ANY HAZARDOUS MATERIALS. CONTACT DESIGNER IMMEDIATELY IF ANY HAZARDOUS MATERIALS ARE DISCOVERED. CAP AND REMOVE UTILITY SERVICES, FUEL TANKS AND SEPTIC SYSTEMS.
- 6. ALL MATERIAL TO BE DEMOLISHED, DEMOLITION DEBRIS AND OTHER EXCESS WASTE MATERIAL GENERATED FROM DEMOLITION ACTIVITIES SHALL BECOME THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE DISPOSED OF OFF-SITE AS DIRECTED BY THE OWNER, IN ACCORDANCE WITH ALL LOCAL, STATE, AND
- FEDERAL LAWS, RULES, AND REGULATIONS. 7. ALL PAVEMENT OR CONCRETE TO BE REMOVED SHALL BE SAW CUT TO PROVIDE A STRAIGHT AND UNIFORM JOINT FOR NEW PAVEMENT, SIDEWALK, OR CURB AND GUTTER, ETC. ANY EXISTING PAVEMENT, SIDEWALK, CURB AND GUTTER, ETC. THAT MUST BE REMOVED TO ALLOW NEW CONSTRUCTION SHALL BE REMOVED AND

REPAIRED PER THE SPECIFICATIONS AND DETAILS OR TO MATCH PRE-CONSTRUCTION CONDITIONS (WHETHER

- 8. TREE PROTECTION FENCING SHALL BE INSTALLED AS REQUIRED PRIOR TO BEGINNING CLEARING OPERATIONS.
- 9. CLEAR AND GRUB ALL AREAS AS SHOWN ON THE PLANS AND REQUIRED TO PERMIT INSTALLATION OF NEW CONSTRUCTION, PER SPECIFICATIONS AND DRAWINGS
- 10. EXISTING TREES, SHRUBS OR OTHER LANDSCAPE MATERIAL NOT SHOWN TO BE REMOVED ON THE PLANS SHALL BE REMOVED ONLY AFTER APPROVAL OF DESIGNER.

OR NOT SHOWN ON THE DRAWINGS TO BE REMOVED).

- 11. AT THE START OF GRADING INVOLVING THE LOWERING OF EXISTING GRADE AROUND A TREE OR STRIPPING OF TOPSOIL, A CLEAN SHARP VERTICAL CUT SHALL BE MADE AT THE EDGE OF THE TREE SAVE AREA PRIOR TO OR AT THE SAME TIME AS SILT FENCE AND OTHER EROSION CONTROL MEASURES ARE INSTALLED. THE TREE PROTECTION FENCING SHALL BE INSTALLED ON THE SIDE OF THE CUT FARTHEST AWAY FROM THE TREE TRUNK AND SHALL REMAIN IN PLACE UNTIL ALL CONSTRUCTION IN THE VICINITY OF THE TREE IS COMPLETE, NO
- 12. ROOT PROTECTION ZONE EQUALS ONE FOOT OF RADIUS FOR EVERY INCH OF DIAMETER OF EXISTING TREES.
- STORAGE OF FILL, MATERIALS, OR EQUIPMENT AND NO TRESPASSING SHALL BE ALLOWED WITHIN THE BOUNDARY OF THE PROTECTED AREA. AREA MUST BE PROTECTED WITH BOTH TREE PROTECTION FENCING AND WARNING SIGNS. 13. ALL EXISTING UNDERGROUND ELEMENTS/UTILITIES SHOWN SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO

LAND DISTURBING ACTIVITIES. AT LEAST 48 HOURS PRIOR TO ANY DEMOLITION, GRADING, OR

UTILITIES WITHIN THE SITE 14. PROTECT ALL ADJACENT PROPERTIES, THE GENERAL PUBLIC AND ALL OF THE OWNER'S FACILITIES. SHOULD

CONSTRUCTION ACTIVITY, THE CONTRACTOR SHALL CALL "811" FOR PROPER IDENTIFICATION OF EXISTING

DAMAGES OCCUR, NOTIFY DESIGNER AND REPAIR IMMEDIATELY AS DIRECTED. 15. NO WORK SHALL BE PERFORMED ON RIGHT-OF-WAYS OR ADJACENT PROPERTIES UNTIL THE OWNER NOTIFIES CONTRACTOR IN WRITING OF PROCUREMENT OF APPROPRIATE PERMITS, EASEMENTS, AGREEMENTS, OR

GENERAL EROSION AND SEDIMENT CONTROL NOTES

1. TOTAL LIMITS OF DISTURBANCE: ± 66,473 SF / 1.53 AC

RIGHTS-OF-WAY.

- 2. REFER TO PHASED EROSION AND SEDIMENT CONTROL PLANS FOR CLEARING LIMITS AND TEMPORARY EROSION CONTROL DEVICES TO BE INSTALLED PRIOR TO COMMENCING LAND CLEARING OR CONSTRUCTION ACTIVITIES.
- 3. CONTRACTOR SHALL COMPLY WITH ALL STATE AND LOCAL CODES IN OBSERVING EROSION CONTROL MEASURES BOTH ON AND OFF SITE. 4. ALL EROSION AND SEDIMENT CONTROL PRACTICES TO BE INSPECTED WEEKLY AND AFTER EVERY RUNOFF
- PRODUCING RAINFALL EVENT, AS DIRECTED BY LOCAL AUTHORITIES. NEEDED REPAIRS WILL BE MADE 5. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED CONTINUOUSLY. SEEDED AREAS SHALL BE CHECKED REGULARLY AND SHALL BE WATERED, FERTILIZED, RESEEDED, AND MULCHED AS NECESSARY TO
- 6. CONTRACTOR SHALL PERFORM SELF-INSPECTIONS AFTER EACH PHASE OF THE PROJECT UNTIL AFTER FINAL
- STORMWATER/SITE STABILIZATION INSPECTION AND THE SITE IS APPROVED AS STABILIZED.
- 7. THE CONTRACTOR SHALL INCLUDE IN THE CONTRACT PRICE ANY DEWATERING NECESSARY TO CONSTRUCT THE PROJECT AS SHOW ON THE PLANS.
- 8. ALL 3:1 SLOPES SHALL BE STABILIZED WITH 'NO-MOW' NATURALIZED SEED MIX AND EROSION CONTROL
- 9. INSTALL PERMANENT SEEDING ALONG ALL ROADSIDE DITCHES AND CHANNELS WITHIN CONSTRUCTION LIMITS OF PROJECT. ROADSIDE DITCHES AND CHANNELS SHALL BE STABILIZED DAILY UNTIL PERMANENT GROUND COVER IS ESTABLISHED.
- 10. ALL EROSION & SEDIMENT CONTROL FENCING, FINAL INLET PROTECTIONS, FINAL PIPE INLET/OUTLET PROTECTIONS, AND TREE PROTECTION FENCING SHALL REMAIN IN PLACE UNTIL REMOVAL IS APPROVED AFTER FINAL STORMWATER/SITE STABILIZATION INSPECTION AND APPROVAL.
- 11. INSTALL SLOPE EROSION CONTROL MATTING ON TOP OF ALL SIDE SLOPES ON CHANNELS, DIVERSION DITCHES, TEMPORARY SEDIMENT BASINS AND TEMPORARY SEDIMENT CATCHES, PER MANUFACTURERS SPECIFICATIONS.
- 12. INSTALL SLOPE EROSION CONTROL MATTING AS TEMPORARY STABILIZATION DURING THE ESTABLISHMENT OF GROUNDCOVER ON ALL TEMPORARY SLOPES GREATER THAN 6:1. INSTALL PER MANUFACTURERS **SPECIFICATIONS**
- 13. MINIMUM REQUIRED SLOPE PROTECTION FOR ALL SLOPES GREATER THAN 3:1:
- LESS THAN 10' ELEVATION CHANGE: MINIMUM JUTE NETTING. GREATER THAN 10' ELEVATION CHANGE: MINIMUM NORTH AMERICAN GREEN \$75 EROSION
- CONTROL MATTING OR EQUIVALENT.
- 14. MAXIMUM GRADED SLOPE SHALL NOT EXCEED 2:1
- 15. GROUND COVER STABILIZATION SHALL BE IN ACCORDANCE WITH NPDES PERMIT AND THE GROUND STABILIZATION TABLE ON SHEET CE130.
- 16. DURING ALL PHASES OF CONSTRUCTION GROUND COVER ON EXPOSED SLOPES SHALL BE PROVIDED FOLLOWING THE COMPLETION OF ANY PHASE OF GRADING, ACCORDING TO THE GROUND STABILIZATION TABLE ON SHEET CE130 17. TEMPORARY CONSTRUCTION FENCE SHALL BE USED AS SHOWN ON THE PLANS TO INDICATE THE LIMITS OF
- DISTURBANCE AND/OR TO SECURE THE CONSTRUCTION SITE AS NECESSARY. 18. ALL STORM PIPES SHALL BE PROTECTED WITH STONE FILTER PROTECTION AFTER STOPPAGE OF WORK EACH
- 19. INITIAL STORMWATER INLET PROTECTION FOR NEW STORM STRUCTURES SHALL BE ROCK AND GRAVEL INLET
- 20. ALL ROCK AND GRAVEL INLET PROTECTIONS FOR STRUCTURES WITHIN PAVED AREAS SHALL BE CONVERTED TO SILT BAG INLET PROTECTION TYPE DURING BASE PREPARATIONS FOR CURBING AND PAVEMENT. 21. IF THE SAME PERSON CONDUCTS THE LAND-DISTURBING ACTIVITY & ANY RELATED BORROW OR WASTE
- ACTIVITY, THE RELATED BORROW OR WASTE ACTIVITY SHALL CONSTITUTE PART OF THE LAND-DISTURBING ACTIVITY UNLESS THE BORROW OR WASTE ACTIVITY IS REGULATED UNDER THE MINING ACT OF 1971, OR IS A LANDFILL REGULATED BY THE DIVISION OF WASTE MANAGEMENT. IF THE LAND-DISTURBING ACTIVITY AND ANY RELATED BORROW OR WASTE ACTIVITY ARE NOT CONDUCTED BY THE SAME PERSON, THEY SHALL BE CONSIDERED SEPARATE LAND-DISTURBING ACTIVITIES AND MUST BE PERMITTED EITHER THROUGH THE
- 22. SUFFICIENT EROSION CONTROL PRACTICES MUST BE INSTALLED AND MAINTAINED TO RETAIN SEDIMENT WITHIN THE BOUNDARIES OF THE SITE.

SEDIMENTATION POLLUTION CONTROL ACT AS A ONE-USE BORROW SITE OR THROUGH THE MINING ACT.

- 23. ALL NCDEQ INSPECTIONS SHALL BE SCHEDULED ONLINE AT:
- HTTPS://EDOCS.DEQ.NC.GOV/FORMS/NONDISCHARGE-BRANCH-SUBMITTAL-FORM

GENERAL SITE NOTES

- 1. ALL CONSTRUCTION, UNLESS SPECIFICALLY EXEMPTED BY STATE OR FEDERAL LAW, SHALL BE IN ACCORDANCE WITH THE CURRENT CITY OF WILMINGTON AND/OR NORTH CAROLINA DEPARTMENT OF TRANSPORTATION (NCDOT) ROAD AND BRIDGE STANDARDS AND SPECIFICATION, THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY (NCDEQ) STORMWATER DESIGN MANUAL, THE NORTH CAROLINA DEPARTMENT OF ENERGY, MINERAL AND LAND RESOURCES (NCDEMLR) EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL, THE FINAL GEOTECHNICAL REPORT, AND GENERAL DESIGN STANDARDS. IN THE CASE OF A CONFLICT BETWEEN THE REQUIREMENTS, THE MORE RESTRICTIVE STANDARD SHALL CONTROL.
- THE PROJECT LIMITS WILL BE FULLY COMPLIANT WITH THE NORTH CAROLINA ACCESSIBILITY CODES (ANSI 117.1-2009 AND CHAPTER 11 OF THE NCBC) UNLESS AND EXCEPT IN AREAS WHERE AN APPROVED STATEMENT FROM THE SITE ENGINEER, SURVEYOR, OR ARCHITECT VERIFIES THAT THE SITE CONDITIONS EXIST WHERE THE TOPOGRAPHY OF THE SITE IS EXTREME AND ONLY ALTERNATE METHODS OF COMPLIANCE ARE
- 3. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL JOBSITE SAFETY, INCLUDING BUT NOT LIMITED TO TRENCH SAFETY, DURING ALL PHASES OF CONSTRUCTION. ALL WORK SHALL COMPLY WITH ALL STATE, LOCAL AND OSHA SAFETY STANDARDS. THE CONTRACTOR SHALL MAINTAIN THE SITE IN A MANNER SO ALL CONSTRUCTION PERSONNEL AND PUBLIC SHALL BE PROTECTED FROM INJURY, AND THE ADJOINING PROPERTY PROTECTED FROM DAMAGE.
- 4. NO WORK SHALL BE PERFORMED ON RIGHT-OF-WAYS OR ADJACENT PROPERTIES UNTIL THE OWNER NOTIFIES CONTRACTOR IN WRITING OF PROCUREMENT OF APPROPRIATE PERMITS, EASEMENTS, AGREEMENTS, OR
- 5. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING OR CONTAINING ALL REQUIRED PERMITS AND
- APPROVALS PRIOR TO COMMENCING CONSTRUCTION. 6. WATER, FIRE PROTECTION, ELECTRICAL, AND SEWER SERVICES MUST BE MAINTAINED FOR THE DURATION OF THE PROJECT, WITH THE EXCEPTION OF COORDINATED TIE-INS.
- 7. ANY DISCREPANCIES FOUND BETWEEN THE DRAWINGS, SPECIFICATIONS, AND THE ACTUAL FIELD CONDITIONS OR ANY INCONSISTENCIES OR AMBIGUITIES IN DRAWINGS OR SPECIFICATIONS SHALL BE IMMEDIATELY REPORTED TO THE DESIGNER, IN WRITING, WHO SHALL PROMPTLY ADDRESS SUCH INCONSISTENCIES OR AMBIGUITIES. WORK DONE BY THE CONTRACTOR AFTER THE DISCOVERY OS SUCH
- DISCREPANCIES, INCONSISTENCIES, OR AMBIGUITIES SHALL BE DONE AT THE CONTRACTORS RISK. 8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL SETBACKS, EASEMENTS, AND DIMENSIONS SHOWN HEREIN BEFORE BEGINNING CONSTRUCTION.
- 9. THE CONTRACTOR SHALL CONTACT ALL OWNERS OF EASEMENTS, UTILITIES, AND RIGHT-OF-WAY'S (PUBLIC OR PRIVATE) PRIOR TO WORKING IN THESE AREAS.
- 10. ACCESS TO UTILITIES, FIRE HYDRANTS, STREET LIGHTING, ETC., SHALL REMAIN UNDISTURBED, UNLESS
- COORDINATED WITH THE RESPECTIVE UTILITY. 11. ALL AREAS OUTSIDE THE "LIMITS OF DISTURBANCE" SHALL REMAIN UNDISTURBED AT ALL TIMES.
- 12. IF DEPARTURES FROM THE SPECIFICATIONS OR DRAWINGS ARE DEEMED NECESSARY BY THE CONTRACTOR. DETAILS OF SUCH DEPARTURES AND REASONS THEREOF SHALL BE PROVIDED TO THE DESIGNER AND OWNER FOR REVIEW. NO DEPARTURES FROM THE CONTRACT DOCUMENT SHALL BE MADE WITHOUT WRITTEN
- 13. THE CONTRACTOR IS RESPONSIBLE FOR THE SCHEDULING OF, AND FEES RELATED TO, ALL INSPECTIONS, CERTIFICATIONS, EQUIPMENT, ETC., THAT MAY BE REQUIRED.
- 14. THE ENGINEER/ARCHITECT/LANDSCAPE ARCHITECT/OWNER DISCLAIMS ANY ROLE IN THE CONSTRUCTION MEANS AND METHODS ASSOCIATED WITH THE PROJECT AS SET FORTH IN THESE PLANS.
- 15. THE CONTRACTOR SHALL PLAN AND CONSTRUCT WORK SO AS TO CAUSE MINIMUM INCONVENIENCE TO THE OWNER AND THE PUBLIC. THE CONTRACTOR SHALL PROVIDE, ERECT AND MAINTAIN AT ALL TIMES DURING THE PROGRESS OR TEMPORARY SUSPENSION OF WORK, SUITABLE BARRIERS, FENCES, SIGNS, OR OTHER ADEQUATE PROTECTION, INCLUDING FLAG MEN AND WATCHMEN AS NECESSARY TO INSURE THE SAFETY OF THE PUBLIC AS WELL AS THOSE ENGAGED IN THE CONSTRUCTION WORK. CONSTRUCTION SIGNING SHALL BE IN ACCORDANCE WITH ALL APPLICABLE SAFETY STANDARDS. CONTRACTOR WILL BE RESPONSIBLE FOR ONSITE DUST CONTROL.
- 16. THE CONTRACTOR SHALL NOTE THAT THE DRAWINGS MAY NOT SHOW EVERY OFFSET, TRANSITION, FITTING, ETC. THAT MAY BE REQUIRED. THE CONTRACTOR SHALL INSTALL SUCH STANDARD APPURTENANCES AS REQUIRED TO CLOSELY FOLLOW THE GRADES AND ALIGNMENTS DEPICTED ON THE PLANS.
- 17. CONSTRUCTION STAKE OUT IS THE RESPONSIBILITY OF THE CONTRACTOR AND MAY BE PERFORMED USING A DIGITAL (CADD) FILE PROVIDED BY THE DESIGNER. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES FOUND BETWEEN THE DIGITAL FILE AND THE CRITICAL STAKING DIMENSIONS SHOWN ON THE PLANS (I.E. PAVEMENT WIDTHS, CURB RADII, BUILDING SETBACKS, BUILDING FOOTPRINTS ETC.). ANY MODIFICATIONS MADE BY OTHERS TO THE DIGITAL FILE PROVIDED BY THE DESIGNER
- 18. BURYING CONSTRUCTION WASTE ON-SITE IS PROHIBITED.
- 19. NO PART OF THE DISTURBED SITE MAY BE LEFT UNCOVERED OR UNSTABILIZED ONCE CONSTRUCTION IS
- COMPLETE. 20. WARRANTY BEGINS ONCE SUBSTANTIAL COMPLETION HAS BEEN ISSUED.
- 21. A PRE-CONSTRUCTION CONFERENCE SHALL BE HELD PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL ARRANGE THE MEETING WITH THE CITY OF WILMINGTON STAFF, THE DESIGNER, AND THE
- 22. ALL DIMENSIONS SHOWN ARE TO FACE OF CURB AND FACE OF BUILDING WALL, UNLESS OTHERWISE NOTED. 23. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF ALL DIMENSIONS SHOWN. CONTACT THE
- DESIGNER IF ANY DISCREPANCIES OCCUR.
- 24. GENERAL BUILDING DIMENSIONS ARE SHOW ON THE PLANS. SEE ARCHITECTURAL DRAWINGS FOR SPECIFIC
- 25. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING ALL SOIL TESTING IS PERFORMED AND THE RESULTS FORWARDED TO THE ENGINEER AND OWNER.
- 26. TESTING OF MATERIAL REQUIRED FOR THE CONSTRUCTION OF THE PARKING IMPROVEMENTS SHALL BE PERFORMED BY AN APPROVED AGENCY FOR TESTING MATERIALS. THE NOMINATION OF THE TESTING LAB AND THE PAYMENT OF EACH TESTING SERVICE SHALL BE MADE BY THE OWNER. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO SHOW BY STANDARD TESTING PROCEDURES THAT THE WORK CONSTRUCTED MEETS THE REQUIREMENTS OF THE NCDOT AND CITY OF WILMINGTON'S SPECIFICATIONS.
- 27. ALL PAVEMENT SUB GRADES SHALL BE SCARIFIED TO A DEPTH OF 8 INCHES AND COMPACTED TO A MINIMUM DENSITY OF 100% PF THE ASTM D-1557 DENSITY AT OPTIMUM MOISTURE CONTENT UNLESS OTHERWISE SHOWN ON THE CONSTRUCTION PLANS OR AS DIRECTED BY THE GEOTECHNICAL ENGINEER. FILL SHALL BE PLACED AND COMPACTED IN MAXIMUM 8 INCH LIFTS. IN AREAS WHERE ROCK IS ENCOUNTERED AT FINAL SUB GRADE ELEVATION, THE EXPOSED ROCK SHALL BE TOPPED WITH A LEVELING COURSE OF SANDY CLAY OR CLAYEY SAND (P.I. BETWEEN 4 AND 15) AS NEEDED TO PROVIDE A SMOOTH SURFACE FOR PAVING.
- 28. ALL PAVEMENT MARKINGS AND SIGNAGE SHALL CONFORM TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES". ALL INTERNAL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC, EXCEPT PARKING STALL STRIPING WHICH SHALL BE PAINTED 4" YELLOW.
- 29. FACES OF RADII ARE 4 FT UNLESS OTHERWISE SHOWN. 30. ALL PARKING SPACES SHALL BE 9' WIDE X 18' DEEP MIN.
- 31. WHERE PROPOSED CURB AND GUTTER TIES TO EXISTING CURB OR CURB AND CUTTER, A TRANSITION OF 10' SHALL BE MADE TO CONFORM TO THE EXISTING HEIGHTS AND SHAPES.
- 32. ALL CURB JOINTS SHALL EXTEND THROUGH THE CURB. MINIMUM LENGTH OF OFFSET JOINTS AT RADIUS POINTS IS 1.5 FEET. ALL JOINTS SHALL BE SEALED WITH JOINT SEALANT.
- 33. CONTRACTOR SHALL SUBMIT SCALED PLANS OF ALL SCORING/JOINTS FOR APPROVAL BY ARCHITECT 30 DAYS MINIMUM PRIOR TO INSTALLATION.
- 34. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL PAVEMENT MARKINGS FOR FIRE LANES, PARKING STALLS, ADA PARKING SYMBOLS, AND MISCELLANEOUS STRIPING WITHIN PARKING LOT AND AROUND BUILDINGS AS 35. ALL ADA RAMPING, STRIPING, AND PAVEMENT MARKINGS SHALL CONFORM TO THE CURRENT ADA
- REQUIREMENTS AND NORTH CAROLINA BUILDING CODE. 36. LANDINGS ARE REQUIRED AT THE TOP OF ALL CURB RAMPS IN ACCORDANCE WITH THE LATEST NC BUILDING
- CODE, MAXIMUM SLOPE SHALL NOT BE STEEPER THAN 1:48 IN ALL DIRECTIONS. 37. LANDINGS ARE REQUIRED AT THE TOP AND BOTTOM OF ALL STAIRS IN ACCORDANCE WITH THE LATEST NC BUILDING CODE.
- 38. ALL SIDEWALKS SHALL BE CONSTRUCTED OF CONCRETE. PROVIDE A NON-SKID FINISH TO ALL WALKWAYS. 39. TEMPORARY AND PERMANENT PEDESTRIAN EXISTING ROUTES AND ALTERNATE PEDESTRIAN ROUTES WILL BE REQUIRED TO BE COMPLIANT WITH THE PUBLIC RIGHT-OF-WAY ACCESSIBILITY GUIDELINES (PROWAG), CURRENT ADA STANDARDS FOR ACCESSIBLE DESIGN, THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES
- 40. TYPICAL PAVEMENT SECTION DETAILS ARE SHOWN WITHIN THIS SET AND INTENDED TO BE A MINIMUM PAVEMENT SECTION REQUIREMENT. THE CURRENT GEOTECHNICAL REPORT SHALL OVER-RIDE ALL TYPICAL PAVEMENT SECTIONS SHOWN, IF THE GEOTECHNICAL ENGINEER DEEMS A HEAVIER SECTION IS REQUIRED. 41. TRAFFIC CONTROL ON PUBLIC STREETS IS THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE IN

(MUTCD), AND THE LATEST VERSION OF THE NC BUILDING CODE.

- CONFORMANCE WITH THESE PLANS, THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES", AND AS FURTHER DIRECTED BY THE CITY OF WILMINGTON AND NCDOT. 42. ANY REFERENCE TO A RETAINING WALL WITHIN THE PLAN SET IS FOR APPROVAL PERTAINING TO LOCATION, APPEARANCE, AND SIZE ONLY. ALL RETAINING WALLS MUST BE DESIGNED BY A LICENSED STRUCTURAL ENGINEER IN ACCORDANCE WITH THE CITY OF WILMINGTON DESIGN AND CONSTRUCTION ORDINANCES.
- 43. NO STRUCTURAL COMPONENT OF ANY RETAINING WALL CAN BE LOCATED WITHIN A RIGHT-OF-WAY OR 44. EQUIPMENT AND PRODUCTS OTHER THAN SPECIFIED MAY BE USED PROVIDED APPROVAL HAS BEEN
- OBTAINED FROM THE OWNER IN WRITING PRIOR TO ORDERING OR INSTALLATION. THE CONTRACTOR SHALL WAIVE ANY CLAIM FOR ADDITIONAL COSTS RELATED TO SUBSTITUTION OF ALTERNATE EQUIPMENT. 45. ALL SIGNAGE ASSOCIATED WITH THE PUBLIC STREET SYSTEM SHALL ADHERE TO MUTCD STANDARDS AND SPECIFICATIONS.

GENERAL UTILITY NOTES

- 1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL CAPE FEAR PUBLIC UTILITY AUTHORITY (CFPUA)
- AND NCDOT STANDARDS, SPECIFICATIONS AND DETAILS. 2. CONTRACTOR IS RESPONSIBLE TO PERFORM ALL CONSTRUCTION ACTIVITIES IN A MANNER WHICH WILL NOT RESULT IN SANITARY SEWER OVERFLOWS OR BYPASSES TO THE WATERS OF THE STATE. IF SUCH DAMAGES ARE THE RESULT OF CONTRACTORS ACTIONS, THEY ARE RESPONSIBLE FOR ALL REMEDIES AND COSTS, INCLUDING
- 3. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF THE EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON THE RECORDS OF VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE. MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES CHARTED OR UNCHARTED WHICH MIGHT CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
- 4. ALL FILL MATERIAL IS TO BE IN PLACE AND COMPACTED BEFORE INSTALLATION OF PROPOSED UTILITIES. 5. MINIMUM TRENCH WIDTH AT THE TOP OF PIPE SHALL BE AT LEAST 18 INCHES GREATER THAT THE OUTSIDE
- DIAMETER OF THE PIPE.
- 6. CONTRACTOR SHALL NOTIFY THE (MUNICIPAL JURISDICTION) INSPECTORS 72-HOURS PRIOR TO CONNECTING TO ANY EXISTING UTILITY MAIN. 7. UTILITY LINES UNDERGROUND SHALL BE INSTALLED, INSPECTED AND APPROVED BEFORE BACKFILLING.
- 9. COORDINATE AND SCHEDULE INSTALLATION OF ALL UTILITIES WITH OTHER PRIME CONTRACTORS, UTILITY COMPANIES AND OTHER TRADES INCLUDING BUT NOT LIMITED TO: NATURAL GAS, ELECTRICITY, TELEPHONE
- 10. ALL CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE NCSBC AND OSHA REQUIREMENTS.
- 11. CONTRACTOR SHALL PHASE DEMOLITION AND NEW CONSTRUCTION TO ENSURE UNINTERRUPTED ACCESS AND UTILITY SERVICE TO ADJACENT FACILITIES. COORDINATE SHORT-TERM, OFF-HOUR, TEMPORARY SHUT-
- DOWNS WITH THE OWNER. 12. ALL VERTICAL CLEARANCE MEASUREMENTS ARE TAKEN FROM OUTSIDE EDGE OF PIPE TO OUTSIDE EDGE OF
- 11. INSTALL PROPOSED SEWER MAINS WITH A COVER OF NO LESS THAN 3-FT TO FINISH GRADE IN NON-TRAFFIC AREAS, <u>5-FT</u> TO FINISH GRADE IN TRAFFIC AREAS.
- 12. INSTALL PROPOSED WATER MAINS WITH A COVER OF NO LESS THAN 3-FT FROM THE FINISHED GRADE TO THE OUTSIDE DIAMETER OF THE PIPE.

13. INSTALL ALL UTILITIES TO PROVIDE REQUIRED HORIZONTAL AND VERTICAL CLEARANCES, AS FOLLOWS;

- WHEN INSTALLING WATER AND/OR SEWER MAINS, THE HORIZONTAL SEPARATION BETWEEN UTILITIES SHALL BE 10'. IF THIS SEPARATION CANNOT BE MAINTAINED DUE TO EXISTING CONDITIONS, THE VARIATION ALLOWED IS THE WATER MAIN IN A SEPARATE TRENCH WITH THE ELEVATION OF THE WATER MAIN AT LEAST 18" ABOVE THE TOP OF THE SEWER AND MUST BE APPROVED BY THE PUBLIC UTILITIES DIRECTOR. ALL DISTANCES ARE MEASURED FROM OUTSIDE DIAMETER TO OUTSIDE DIAMETER
- WHERE IT IS IMPOSSIBLE TO OBTAIN PROPER SEPARATION, OR ANYTIME A SANITARY SEWER PASSES OVER A WATER MAIN, DIP MATERIALS OR STEEL ENCASEMENT EXTENDED $\underline{10'}$ ON EACH SIDE OF CROSSING MUST BE SPECIFIED AND INSTALLED TO WATERLINE SPECIFICATIONS • MAINTAIN 18" MIN. VERTICAL SEPARATION AT ALL WATER MAIN AND RCP STORM DRAIN CROSSINGS;

MAINTAIN $\overline{24}$ " MIN. VERTICAL SEPARATION AT ALL SANITARY SEWER AND RCP STORM DRAIN

- CROSSINGS. WHERE ADEQUATE SEPARATIONS CANNOT BE ACHIEVED, SPECIFY DIP MATERIALS AND A CONCRETE CRADLE HAVING <u>6"</u> (TYP.) MIN. CLEARANCE. • ALL OTHER UNDERGROUND UTILITIES SHALL CROSS WATER AND SEWER FACILITIES WITH 18" MIN.
- VERTICAL SEPARATION REQUIRED 14. ALL CONCRETE ENCASEMENTS SHALL HAVE A MINIMUM 28 DAY COMPRESSION STRENGTH AT 3000 PSI. 15. ALL PROPOSED VALVES TO BE PLACED IN VALVE BOX PER DETAIL
- 16. ALL PROPOSED WATER PIPES REQUIRE TRACER WIRE, WITH GAS AND OIL RESISTANT INSULATION, RUNNING ALONG THE CROWN OF THE PIPE IN CONTINUOUS LENGTHS. THE TRACER WIRE SHALL BE SECURED TO THE PIPE IN INTERVALS OF 10' (MAXIMUM) WITH TAPE. ONE TRACER WIRE AND MARKER BALLS, IF SPECIFIED, WILL BE INSTALLED ALONG EACH INDIVIDUAL PIPE AND WILL NOT BE INTERCONNECTED WITH TRACER WIRES FOR OTHER PIPES. EACH TRACER WIRE WILL BE EXPOSED IN A VALVE BOX, PER DETAIL, AND THE VALVE BOX WILL NOT BE SHARED WITH OTHER TRACER WIRES.
- 17. CONTRACTOR IS RESPONSIBLE TO PROVIDE A FULL JOINT OF PRESSURE PIPE (20') OR PROVIDE BELL JOINT RESTRAINT HARNESS IF BELL JOINTS ARE INSTALLED AT LESS THAN 18' FROM EACH BEND OR FITTING IN ADDITION TO ADHERING TO SPECIFIED COMPACTION REQUIREMENTS. IN ANY EVENT, THE CONTRACTOR IS SOLELY RESPONSIBLE TO ACHIEVE SATISFACTORY PRESSURE TESTS RESULTS FOR ALL PIPE LINES WITHOUT
- ADDITIONAL COST OR TIME. 18. A SUCCESSFUL PRESSURE TEST IS 150% OF OPERATION PRESSURE OR 150PSI (WHICHEVER IS GREATER) FOR
- TWO HOURS, IN ACCORDANCE WITH AWWA STANDARDS. 19. THE CAPE FEAR PUBLIC UTILITY AUTHORITY (CFPUA) HAS THE RIGHT TO INSPECT ALL PRIVATE WATER SYSTEMS. 20. THE CONTRACTOR SHALL PROTECT ALL SIGNS, MANHOLES, TELEPHONE RISERS, WATER VALVES, ETC. DURING ALL CONSTRUCTION PHASES, THE CONTRACTOR SHALL REPAIR ANY AND ALL EXISTING UTILITIES DAMAGED
- DURING CONSTRUCTION, AT NO EXPENSE TO THE OWNER. 21. ALL PROPOSED UTILITIES SHALL BE INSTALLED UNDERGROUND.
- 22. REFER TO ARCHITECTURAL DRAWINGS FOR TIE-IN LOCATIONS AND ELEVATION OF ALL UTILITIES. 23. ALL BUILDING SHALL HAVE KNOX BOXES.
- 24. PROPOSED SANITARY SEWER SERVICES SHALL BE 4" PVC (SCH 40) @1.04% MIN. SLOPE UNLESS INDICATED OTHERWISE. USE DUCTILE IRON WHEN COVER IS LESS THAN 24-IN. 25. PROPOSED SANITARY SEWER SERVICES OVER 20 FEET LONG WITH LESS THAN 3 FEET OF COVER REQUIRE
- DUCTILE IRON PIPE. 26. ALL CONDENSATE LINES SHALL BE CONNECTED TO STORM DRAINAGE SYSTEM. 27 THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH THE SPECIFICATIONS OF THE CAPE FEAR PLIBLIC
- AND SERVICES 28. ALL BUILDINGS SHALL HAVE ADDRESSES POSTED ON THE BUILDING, IN A CLEARLY VISIBLE LOCATION.

UTILITY AUTHORITY (CFPUA) REGULATED MATERIALS, INSTALLATION METHODS AND TESTING OF UTILITY MAINS

- 29. ALL FDC'S SHALL HAVE SIGNAGE INDICATING WHICH BUILDING IT SERVES. 30. FIRE LANES SHALL BE MARKED THROUGHOUT THE SITE, INCLUDING THE FRONT AND REAR OF BUILDINGS AND
- IN FRONT OF THE FIRE HYDRANTS AND FDC'S 31. ALL GAS METERS AND ELECTRICAL EQUIPMENT SUBJECT TO VEHICLE IMPACT SHALL BE PROTECTED BY
- 32. NO TREES, SHRUBS OR PLANTS SHALL BE WITHIN 3 FEET OF ALL FIRE DEPARTMENT EQUIPMENT. 33. SEWER MAIN EASEMENTS SHALL BE GRADED SMOOTH, FREE FROM ROCKS, BOULDERS, ROOTS, STUMPS, AND
- OTHER DEBRIS, AND SEEDED AND MULCHED UPON THE COMPLETION OF CONSTRUCTION. 34. ALL VALVES SHALL BE STRAINED IN BOTH DIRECTIONS IN A MANNER CONSISTENT WITH OPERATION AS A DEAD END USING STAINLESS STEEL RODDING AND BLOCKING ACCORDING TO STANDARD SPECIFICATIONS UNLESS OTHERWISE SHOWN ON THE PLANS

35. THE CONTRACTOR SHALL MAINTAIN AN "AS-BUILT" SET OF DRAWINGS TO RECORD THE EXACT LOCATION OF

- ALL PIPING PRIOR TO CONCEALMENT. DRAWINGS SHALL BE GIVEN TO THE OWNER UPON COMPLETION OF THE PROJECT WITH A COPY OF THE TRANSMITTAL LETTER TO THE ENGINEER. 36. CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH OWNER AND POWER UTILITY PROVIDER FOR
- RELOCATION OF POWER SERVICE.
- 37. CONTRACTOR IS RESPONSIBLE FOR ALL PERMITTING FEES AND INSPECTION CHARGES. 38. TEMPORARY ELECTRICAL SERVICE REQUIRED FOR PROJECT IS THE RESPONSIBILITY OF THE CONTRACTOR.

39. CONTRACTOR TO COORDINATE WITH OWNER FOR PLACEMENT OF PERMANENT POWER SERVICE

PERMITTING NOTES CAPE FEAR PUBLIC UTILITY AUTHORITY (CFPUA) WATER AND SEWER REVIEW MAY BE REQUIRED PRIOR TO

NEW HANOVER EROSION CONTROL PERMIT, LAND DISTURBANCE PERMIT, AND CERTIFICATE OF COMPLIANCE REQUIRED PRIOR TO COMMENCING GRADING OPERATIONS.

- GENERAL STORMWATER NOTES THE CONTRACTOR SHALL VERIFY AND COORDINATE ALL DIMENSIONS SHOWN, INCLUDING THE
- HORIZONTAL AND VERTICAL LOCATION OF ALL STORM DRAIN STRUCTURES (CURB INLETS, DRAIN INLETS, MANHOLES ETC.) AND ALL UTILITIES CROSSING THE STORM SEWER PIPE SYSTEM. THE STORM DRAIN CONTRACTOR SHALL PROVIDE ALL MATERIALS AND APPURTENANCES NECESSARY FOR COMPLETE INSTALLATION OF THE STORM DRAIN SYSTEM.

ALL RCP STORM DRAIN PIPES SHALL BE MINIMUM CLASS III REINFORCE CONCRETE PIPE, UNLESS OTHERWISE

- THE LOCATIONS OF STORM DRAIN STRUCTURES SHOWN ON THESE PLANS ARE APPROXIMATE. WHERE PROPOSED STORM DRAIN PIPING TIES TO EXISTING STRUCTURES, PIPES, SWALES, ETC., THE CONTRACTOR SHALL FIELD ADJUST PROPOSED STORM DRAIN PIPES TO MATE THE LOCATION OF THESE EXITING FEATURES.
- ALL ROOF DRAINS SHALL BE AT MINIMUM 6" PVC (SCH 40) @ 1% MIN. SLOPE UNLESS INDICATED OTHERWISE. USE DUCTILE IRON WHEN COVER IS LESS THAN 24-IN. THE CONTRACTOR SHALL MAINTAIN AN "AS-BUILT" SET OF DRAWINGS TO RECORD THE EXACT LOCATION
- OF ALL PIPING PRIOR TO CONCEALMENT. DRAWINGS SHALL BE GIVEN TO THE OWNER UPON COMPLETION OF THE PROJECT WITH A COPY OF THE TRANSMITTAL LETTER TO THE ENGINEER. UPON COMPLETION OF THE PROJECT, AND BEFORE CERTIFICATE OF OCCUPANCY SHALL BE GRANTED, THE APPLICANT SHALL CERTIFY THAT THE COMPLETED PROJECT IS IN ACCORDANCE WITH THE APPROVED STORMWATER MANAGEMENT PLANS AND DESIGNS, AND SHALL SUBMIT ACTUAL "AS-BUILT" PLANS FOR ALL

STORMWATER MANAGEMENT FACILITIES OR PRACTICES AFTER FINAL CONSTRUCTION IS COMPLETED."

- I. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS FOR EXCAVATIONS; FINAL RULE 29CFR PART 1926, SUBPART 'P' APPLIES TO ALL EXCAVATIONS EXCEEDING FIVE FEET IN DEPTH. EXCAVATION EXCEEDING TWENTY FEET IN DEPTH REQUIRES THE DESIGN OF A TRENCH SAFETY SYSTEM BY A REGISTERED PROFESSIONAL ENGINEER, PROVIDED TO CONTRACTOR PRIOR TO EXCAVATION
- CONTRACTOR SHALL NOTIFIY "NC811" (811) OR (1-800-632-4949) AT LEAST THREE FULL BUSINESS DAYS PRIOR TO BEGINNING CONSTRUCTION OR EXCAVATION TO HAVE EXISTING UTILITIES LOCATED. CONTRACTOR SHALL CONTACT ANY LOCAL UTILITIES THAT PROVIDE THEIR OWN LOCATE SERVICES INDEPENDENT OF "811".
- 3. BEFORE ANY EARTHWORK IS PERFORMED, THE CONTRACTOR SHALL STAKE OUT AND MARK THE LIMITS OF SURVEYING FOR THE LINE AND GRADE CONTROL POINTS RELATED TO EARTHWORK
- 4. ALL DIMENSIONS AND GRADES SHOWN ON THE PLAN SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE ENGINEER IF ANY DISCREPANCIES EXIST PRIOR TO PROCEEDING WITH CONSTRUCTION, FOR NECESSARY PLAN OR GRADE CHANGES. NO EXTRA COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR ANY WORK DONE DUE TO DIMENSIONS OR
- BE USED IN CASE OF DISCREPANCY.
- OTHERWISE SHOWN. 7. ACCESSIBLE ROUTES AND PARKING AREAS MUST BE PROVIDED IN ACCORDANCE WITH THE CURRENT ADA REQUIREMENTS. THE TURNING SLOPE OF WALKING SURFACES CANNOT BE STEEPER THAN 1:20 AND CROSS SLOPE OF WALKING SURFACES CANNOT BE STEEPER THAN 1:48, WHICH INCLUDES CROSSWALKS. ACCESSIBLE
- 8. ALL AREAS SHALL BE GRADED FOR POSITIVE DRAINAGE AND AS SHOWN ON THESE PLANS. THE CONTRACTOR
- ADJUSTMENTS AND/OR RELOCATIONS.
- 10. THE FRAMES AND COVERS OF ALL EXISTING AND PROPOSED SANITARY SEWER, WATER MAIN, GAS AND WIRE MATCH FINISH GRADE FLEVATIONS AND SLOPES
- 12. CONTRACTOR SHALL VERIFY ALL EXISTING ELEVATIONS WHERE NEW CONSTRUCTION SHALL JOIN OR CONNECT TO EXISTING PAVEMENT, CURB AND OTHER RIGID STRUCTURES. NOTIFY DESIGNER IF
- NON-COMPATIBLE SOIL TYPE OR MATERIAL. UNSATISFACTORY MATERIALS ALSO INCLUDE MAN-MADE FILLS ND REFUSE DEBRIS DERIVES FROM ANY SOURCE. 14. MATERIALS USED TO CONSTRUCT EMBANKMENTS FOR ANY PURPOSE, BACKFILL AROUND DRAINAGE STRUCTURE, OR IN UTILITY TRENCHES FOR ANY OTHER DEPRESSION REQUIRING FILL OR BACKFILL SHALL BE COMPACTED TO 95% OF MAXIMUM DENSITY AS DETERMINED BY THE MODIFIED PROCTOR TEST AS SET OUT IN ASTM STANDARD D-1557. THE CONTRACTOR SHALL, PRIOR TO ANY OPERATIONS INVOLVING FILLING OR
- ENGINEERING REPRESENTING THE LABORATORY. 15. PLACEMENT OF ANY FILL MATERIAL MUST BE CONDUCTED UNDER THE OBSERVATION OF A QUALIFIED
- PLACED AND COMPACTED AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER. 17. UPON THE COMPLETION OF THE EARTHWORK ACTIVITIES, THE CITY OF WILMINGTON MUST BE PROVIDED WITH A FINAL GRADING REPORT THAT INCLUDES THE CORRESPONDING COMPACTION TEST RESULTS AND CERTIFIES
- THE TYPE OF TILL MATERIAL AND ITS PROPER PLACEMENT.
- AND PAVING SUB GRADE INFORMATION. 19. THE CONTRACTOR SHALL OBTAIN ALL PERMITS REQUIRED FOR BLASTING ROCK IF BLAST ROCK IS
- 20. EASEMENTS ACROSS SLOPED AREAS SHALL BE GRADED UNIFORMLY ACROSS THE SLOPE TO NO STEEPER THAT 5:1 RATIO.
- DEMOLITION OR CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR UTILIZING A LICENSED

- 1. CONTRACTOR SHALL MAINTAIN AN ALL -WEATHER ACCESS FOR EMERGENCY VEHICLES AT ALL TIMES DURING
- 2. NEW HYDRANTS MUST BE BROUGHT INTO SERVICE PRIOR TO COMBUSTIBLE MATERIALS DELIVERED TO THE JOB
- 3. A HYDRANT MUST BE WITHIN 150' OF THE FDC (MEASURED AS THE TRUCK DRIVES FOR PRACTICAL USE). 4. FDC MUST BE WITHIN 40' OF FIRE APPARATUS PLACEMEN

LANDSCAPE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.

- SHALL ALWAYS BE MAINTAINED AROUND THE CIRCUMFERENCE OF HYDRANTS AND FDC'S.
- 7. PRIVATE UNDERGROUND FIRE LINES REQUIRE A SEPARATE UNDERGROUND FIRE LINE PERMIT FROM THE WILMINGTON FIRE AND LIFE SAFETY DIVISION. (910) 343-0696
- 8. CONTRACTOR SHALL SUBMIT A RADIO SIGNAL STRENGTH STUDY FOR ALL COMMERCIAL BUILDINGS THAT DEMONSTRATES THAT EXISTING EMERGENCY RESPONDER RADIO SIGNAL LEVELS MEET THE REQUIREMENTS OF SECTION 510 OF THE 2018 NC FIRE CODE

3 WORKING DAYS

FOR THE LOCATION OF

UNDERGROUND FACILITIE

BEFORE YOU DIG

Call before you dig. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AN AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGH

BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND

CONSTRUCTION SITE SAFETY IS THE SOLE RESPONSIBILITY OF

SHALL BE EXPECTED TO ASSUME ANY RESPONSIBILITY FOR

THE CONTRACTOR NEITHER THE OWNER NOR THE ENGINEER

SAFETY OF THE WORK, OF PERSONS ENGAGED IN THE WORK

OF ANY NEARBY STRUCTURES, OR OF ANY OTHER PERSONS.

Know what's below.

PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

ALL CONSTRUCTION SHALL BE IN ACCORDANCE

WITH ALL CITY OF WILMINGTON AND NCDOT

STANDARDS AND SPECIFICATIONS

CLINIC -**GREENFIELD**

NOVANT HEALTH

FAMILY MEDICAL

1423 GREENFIELD STREET, WILMINGTON, NC

ARCHITECTURE■ PLANNING■ INTERIORS

1635 West Trade Street, Suite 1A

Charlotte, North Carolina 28216

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PERMIT SET

GENERAL NOTES

GENERAL GRADING NOTES

- REPORT ANY DISCREPANCIES TO THE ENGINEER IMMEDIATELY. PAVEMENT AND OTHER ITEMS ESTABLISHED IN THE PLANS. THE CONTRACTOR SHALL PROVIDE THE NECESSARY
- GRADES SHOWN INCORRECTLY ON THESE PLANS IF SUCH NOTIFICATION HAS NOT BEEN GIVEN.
- 5. PROPOSED CONTOURS AND GUTTER GRADIENTS ARE APPROXIMATE. PROPOSED SPOT ELEVATIONS ARE TO 6. ALL SPOT ELEVATIONS INDICATED AT CURB AND GUTTER AND ARE DENOTED AT THE GUTTERLINE, UNLESS
- PARKING SPACES MUST BE PROPERLY DESIGNED TO SHOW THAT FULL COMPLIANCE IS BEING PROVIDED TO CURRENT ADA REQUIREMENTS (NUMBER, LOCATION, ETC.).
- SHALL MAINTAIN ADEQUATE SITE DRAINAGE DURING ALL PHASES OF CONSTRUCTION. 9. THE GRADING CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES FOR ANY REQUIRED UTILITY
- UTILITY VAULTS, MANHOLES, STORM DRAIN STRUCTURES, CLEANOUTS, ETC. SHALL BE ADJUSTED AS NEEDED TO 11. THE CROSS-SLOPE ON ALL SIDEWALKS SHALL BE A MAXIMUM OF 2.0%
- DISCREPANCIES OCCUR. 13. ALL MATERIALS USED FOR BACKFILL SHALL BE FREE OF WOOD, ROOTS, ROCKS, BOULDERS, OR ANY OTHER
- BACKFILLING, SUBMIT THE RESULTS OF THE PROCTOR TEST TOGETHER WITH THE CERTIFICATION THAT THE SOIL tested is representative of the materials to be used on the project. Tests shall be conducted by a CERTIFIED MATERIALS TESTING LABORATORY AND THE CERTIFICATIONS MADE BY A LICENSED PROFESSIONAL
- LICENSED GEOTECHNICAL ENGINEER
- 16. SOIL UNDER BUILDINGS, PAVED AREAS, AND WITHIN SLOPES GREATER THAN 3:1 (H:V) SHALL BE APPROVED,
- 18. REFERENCE STRUCTURAL DRAWINGS AND SPECIFICATIONS AND GEOTECHNICAL REPORT FOR BUILDING PAD
- ENCOUNTERED. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLYING WITH ALL BLASTING AND SAFETY REQUIREMENTS.
- 21. EXISTING VEGETATION WITHIN TREE PROTECTION AREAS SHALL REMAIN UNDISTURBED, UNLESS NOTED OTHERWISE. 22. ANY AND ALL LANDSCAPING AND EXISTING TREES & SHRUBS TO REMAIN WHICH ARE DAMAGED DURING

CITY OF WILMINGTON NOTES

- 5. LANDSCAPING OR PARKING CANNOT BLOCK OR IMPEDE FDC'S OR FIRE HYDRANTS. A 3-FT CLEAR SPACE
- 6. ADDITIONAL FIRE PROTECTION AND/OR ACCESSIBILITY REQUIREMENTS MAY BE REQUIRED DUE TO ANY SPECIAL CIRCUMSTANCES CONCERNING THE PROJECT.
- 9. ALL ISOLATION VALVES WITHIN THE "HOT BOX" AND BETWEEN THE "HOT BOX" AND THE RISER ROOM, MUST BE FLECTRICALLY SUPERVISED 10. EXISTING WHEELCHAIR RAMPS SHALL BE RETROFITTED WITH FLEXIBLE SURFACE-APPLIED DETECTABLE WARNING MATS IF NO DETECTABLE WARNING PAVERS OR MATS EXIST.

SPRINKLER HEAD

FIRE DEPARTMENT CONNECTION

THRUST BLOCKING

AIR RELEASE VALVE

				LEGEND		
EXISTING LINE TYPE	DESCRIPTION	PROPOSED LINETYPE	EXISTING SYMBOL	DESCRIPTION	PROPOSED SYMBOL	EXISTING SYMBOL
	PROPERTY LINE		mb	MAILBOX	MB	
	EASEMENTBUFFER		O bol	BOLLARD FLAG POLE	●BOL F	
	SETBACK -		, I	SIGN, RELOCATED	₩	
	TREELINE			SIGN	•	
	LIMITS OF DISTURBANCE -	LOD		BIKE RACK		
	DEMOLITION DESIGNATION .	X·X·X·X·X·X		TRUNCATED DOME		
X	FENCE -	X	Ğ.	ADA MARKING	Ğ.	
· · · · · · · · · · · · · · · · · · ·	CHAINLINK FENCE	o —— o ——		PAVEMENT MARKING	A	
0 0	WOOD FENCE - GUARDRAIL -	0 0 0	THEY	DIRECTIONAL ARROWS	TAMAM	Т
	— CABLE GUARDRAIL -			PAVEMENT MARKING STOP BAR		
	ACCESSIBLE ROUTE		ı	PARKING COUNT	(12)	
	MINOR CONTOUR -	39		EXISTING CONIFER TREE		
	MAJOR CONTOURSWALE CENTERLINE	40		EXISTING COMILER TREE		
	STORM DRAIN PIPE			EXISTING DECIDUOUS		
	ROOF DRAIN	RD	×1.00 0—EG 1.	TREE SPOT ELEVATION	★ FG 1.00	
	UNDER DRAINFOUNDATION DRAIN	UD FD		GRADE ARROW		
— — UGE — —	UNDERGROUND ELECTRIC	UGE		STORM MANHOLE		
——— OHE ——	OVERHEAD ELECTRICFIBER OPTIC	——————————————————————————————————————		STORM JUNCTION BOX	0	EVICTING
— — FO — — —— CATV — —	— OVERHEAD CABLE TV		osdco	STORM CLEANOUT	[<u></u>	EXISTING PATTERN
— — CATV — —	UNDERGROUND CABLE TV	— — CATV — —	cb	CURB INLET		
—— OHT — — — — UGT — —	OVERHEAD TELEPHONEUNDERGROUND TELEPHONE			DOUBLE CURB INLET		
— — G — —	— GAS LINE -	G	di	DROP INLET		
— — GS — —	GAS SERVICE	GS	yi yi	YARD INLET		
SSFM	—SANITARY SEWER FORCEMAIN- —SANITARY SEWER GRAVITY MAIN			FLARED END SECTION		
		SSL —	exsd	STORM STRUCTURE TAG	\sum_\subsection \subsection \subseta \subsection \subsection \subsection \subsection \sub	
	WATER LINE	WL ————————————————————————————————————	#		#/	essa sa sa si Salah ili ay ili da ili da ili
	WATER SERVICE	WS		POWER POLE		
— — CHWR— —	CHILLED WATER SUPPLYCHILLED WATER RETURN	CWS	-•	GUY POLE		
— — HWS— —	HOT WATER SUPPLY	HWS	(GUY WIRE	—	
— — HWR— —	— HOT WATER RETURN TEMPORARY CONSTRUCTION	HWR	-\$	LIGHT POLE	☀ 📮	
	EASEMENT TEMPORARY CONSTRUCTION	TCE	et	TRANSFORMER	ET	
	FENCE LIMITS OF GRADING -	TCF LG	hh	ELECTRIC HANDHOLE	HH	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
	BAFFLE -	BF	tp	TELEPHONE PEDISTAL		· • • • •
	SILT FENCE -	SF	catv	CABLE BOX	CATV	
	SUPER SILT FENCE - TREE PROTECTION FENCE -	SSF	P ©	FIBEROPTIC MARKER		
	COMBINATION TREE PROTECTION/SILT FENCE	TP/SF	FOB	FIBEROPTIC PEDISTAL	FOB	
	TIME OF CONCENTRATION -	>>	O gm	GAS MARKER	GM	
	TEMPORARY DIVERSION DITCH		□gm	GAS METER	GM	
TE∧	TEMPORARY SLOPE DRAIN APORARY DRAIN PIPE/CULVERT	$ -\operatorname{SD} \longrightarrow -$	S ^{gv}	GAS VALVE	GV	
			S	SEWER MANHOLE	SS	
			osco	SEWER CLEANOUT	CO	
				GREASE TRAP		
			(exss)	SEWER STRUCTURE TAG	SS	
			#	SEWER STRUCTURE TAG	#	
			wv 	WATER VALVE	H	
			piv	POST INDICATOR VALVE	1	
			-Q- ₩m	WATER METER		
			(bfp)	FIRE HYDRANT	—	
				BACKFLOW PREVENTER	Z	
				WYE	厶	
				TEE	μŢή	
				CROSS	Щ	
					J T.	
			icv ⋈	CAP	.	
			×.	REDUCER	ICV	
			O fdc	RRIGATION CONTROL VALVE	**	

LIST OF ABBREVIATIONS

Max

LOW POINT

MAXIMUM

MANHOLE

MUMINIM

WEIR LENGTH

PROPOSED

SYMBOL

CWA

PROPOSED

PATTERN

 $\begin{bmatrix} \Psi & \Psi & \Psi & \Psi \end{bmatrix}$

Ψ Ψ Ψ

SILT FENCE OUTLET

WATTLE

BLOCK AND GRAVEL

INLET PROTECTION

HARDWARE CLOTH AND

GRAVEL INLET PROTECTION

SILT SACK INLET

PROTECTION FILTER

HORSESHOE PIPE PROTECTION

TEMPORARY DRAIN PIPE OUTLET STABILIZATION

CONSTRUCTION ENTRANCE

CONSTRUCTION ENTRANCE

WITH EXIT WASH RACK

DEWATERING BAG

CONCRETE WASHOUT

GRAVEL

CONCRETE

CONCRETE PVMT

HEAVY DUTY CONCRETE

LIGHT DUTY CONCRETE

ASPHALT

HEAVY DUTY ASPHALT

BRICK PAVE

EARTH

WETLANDS

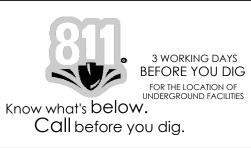
REINFORCING MAT LINING

SILT SOCK INLET PROTECTION

APPROX	APPROXIMATE	N OR NO	NORTH
AD	ANGLE DEVIATION	NAD	NORTH AMERICAN DATUM
ADA	AMERICAN DISABILITIES ACT	NAVD	NORTH AMERICAN VERTICAL DA
Ac OR AC	ACRE	NCDEQ	NORTH CAROLINA DEPARTMENT
Bndy	BOUNDARY	NCDOT	ENVIRONMENTAL QUALITY NORTH CAROLINA DEPARTMENT
3C	BOTTOM OF CURB	NCDOI	TRANSPORTATION
BOC	BACK OF CURB	NIC	NOT IN CONTRACT
BOW BM	BACK OF WALK BOOK OF MAPS	NTS	NOT TO SCALE
3PE	BUILDING PAD ELEVATION	OG	ORIGINAL GROUND
BVCE	BEGIN VERTICAL CURVE ELEVATION	0/\$	OFFSET
BVCS	BEGIN VERTICAL CURVE STATION	OTLT	OUTLET
3W	BOTTOM OF WALL	PI	POINT OF INTERSECTION
C&G	CURB AND GUTTER	Pg OR PG	PAGE
CB	CATCH BASIN	PL	PROPERTY LINE
CI	CURB INLET	POC	POINT OF CONCENTRATION
C-I-P	CAST-IN-PLACE	POD	POINT OF DISCHARGE
ofs	CUBIC FOOT PER SECOND	PREC	PRECAST
CL	CONTROL LINE/CENTER LINE	PROP	PROPOSED
CO	CLEANOUT	PVC	POLY(VINYL CHLORIDE)
Conc.	CONCRETE	PVI	POINT OF VERTICAL INFLECTION
CONN	CONNECTION	PI	POINT OF INTERSECTION
Cu. Ft (cf)	CUBIC FOOT	PT	POINT OF TANGENCY
Cu Yd (cy)	CUBIC YARD	PS PVC	PUMP STATION POLY VINYL-CHLORIDE PIPE
Oble CB	DOUBLE CATCH BASIN	Qty	QUANTITY
))	DELTA	R	RADIUS
DA DB	DRAINAGE AREA DEED BOOK	RCP	REINFORCED CONCRETE PIPE
dbh	DIAMETER AT BREAST HEIGHT	RD	ROOFDRAIN
DG	DESIGN GROUND	RGRCP	RUBBER GASKET RCP
DI .	DRAIN INLET	ROW	RIGHT-OF-WAY
OIP	DUCTILE IRON PIPE	S OR SO	SOUTH
DMH	DRAIN MANHOLE	SA	SURFACE AREA
DOJ	DEPARTMENT OF JUSTICE	san or ss	SANITARY SEWER
D/S	DOWNSTREAM	SCH	SCHEDULE
DWG	DRAWING	SD	STORM DRAIN
DWL	DOUBLE WHITE LINE	SDR	STANDARD DIMENSION RATIO
DYL	DOUBLE YELLOW LINE	SF	SILT FENCE
Ξ	EAST	SHLD	SHOULDER
ECM	EXISTING CONCRETE MONUMENT	SP	SPACE
EIA	EXISTING IRON AXLE	SSF SSMH	SUPER SILT FENCE SANITARY SEWER MANHOLE
EIP	EXISTING IRON PIN	STA	STATION
EIR	EXISTING IRON ROD	STD	STANDARD
EG	EXISTING GRADE	STRM	STORM
ELEV, EL	ELEVATION	STMH	STORM MANHOLE
ELIP EOA	ELLIPTICAL EDGE OF ASPHALT	Sq. ft (sf)	SQUARE FOOT
EOG	EDGE OF GRAVEL	Sq Yd(sy)	SQUARE YARD
EOP	EDGE OF PAVEMENT	SWL	SINGLE WHITE LINE
SC	EROSION AND SEDIMENT CONTROL	SYL	SINGLE YELLOW LINE
VCE	END VERTICAL CURVE ELEVATION	T	THICKNESS
VCS	END VERTICAL CURVE STATION	TBA	TO BE ABANDONED
EX OR EXIST	EXISTING	TBD	TO BE DETERMINED
DC:	FIRE DEPARTMENT CONNECTION	TBR	TO BE REMOVED
ES	FLARED END SECTION	TC	TOP OF CURB
FE	FINISHED FLOOR ELEVATION	TOC	TIME OF CONCENTRATION
Ή	FIRE HYDRANT	TPF	TREE PROTECTION FENCE
HA	FIRE HYDRANT ASSEMBLY	TIP	TRENCH INLET PROTECTION
FOC	FACE OF CURB	TSSB	TEMPORARY SEDIMENT SKIMMER
et. OR FT	FEET	TST	TEMPORARY SEDIMENT TRAP
=UT	FUTURE	TW OD TVD	TOP OF WALL
GS	GENERAL STATUTE	Typ. OR TYP U/S	TYPICAL UPSTREAM
GV .C	GATE VALVE	VERT	VERTICAL
HC HDPE	HANDICAPPED HIGH DENSITY POLYETHYLENE PIPE	VERI	VERTICAL VERTICAL CURVE
HDPE HGL	HIGH DENSITY POLYETHYLENE PIPE HYDRAULIC GRADE LINE	YI	YARD INLET
HGL HORIZ.	HYDRAULIC GRADE LINE HORIZONTAL	W	WEST
horiz. HP	HIGH POINT	WD	WIDE OR WIDTH
nr D	INSIDE DIAMETER	.,,,	
.D.	IDENTIFICATION	NOTE: THIS LIST	MAY NOT BE INCLUSIVE OF ALL
NV	INVERT		S USED WITHIN THE
PF	IRON PIPE FOUND		N DRAWING SET. IF THE
OR LEN	LENGTH		IS UNSURE OF AN ABBREVIATION
_bs	POUNDS		DGY USED WITHIN THIS
Р	LOW POINT	CONSTRUCTIO	N SET, IT IS THE CONTRACTOR'S

DATUM NT OF NT OF MER BASIN

OR TERMINOLOGY USED WITHIN THIS CONSTRUCTION SET, IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE ENGINEER FOR CLARIFICATION. THE ENGINEER OR THE OWNER WILL NOT BE HELD LIABLE FOR MISINTERPRETATION OF THE CONSTRUCTION PLAN SET BY THE GENERAL CONTRACTOR OR ANY OF HIS SUB-CONTRACTORS.



THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

CONSTRUCTION SITE SAFETY IS THE SOLE RESPONSIBILITY OF THE **CONTRACTOR** NEITHER THE OWNER NOR THE ENGINEER SHALL BE EXPECTED TO ASSUME ANY RESPONSIBILITY FOR SAFETY OF THE WORK, OF PERSONS ENGAGED IN THE WORK, OF ANY NEARBY STRUCTURES, OR OF ANY OTHER PERSONS.

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NOVANT HEALTH FAMILY MEDICAL CLINIC -

GREENFIELD 1423 GREENFIELD STREET, WILMINGTON, NC

No.	Description	Date

PERMIT SET

21-025

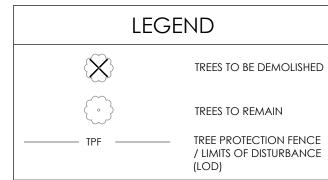
PROJECT LEGEND & **ABBREVIATIONS**

ISSUE DATE	01/12/202
CHECKED L. DICKSON	
SHEET BY J. ADRIATICO PROJECT NUMBER	G-003



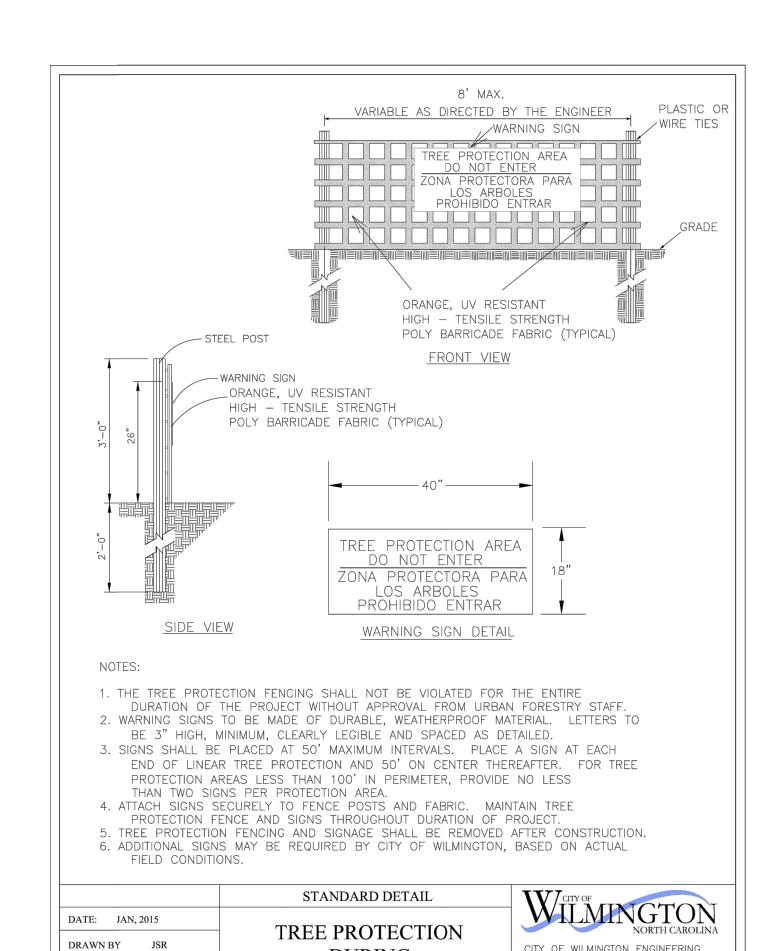
TREE INVENTORY PLAN

Scale: 1" = 30'



SPECIES	SIZE/CALIPER	QUANT
	S WITHIN BUILDIN	ļ
FOOTPRINT	T	
OAK	10"	3
OAK	11"	4
OAK	12"	1
OAK	13"	1
OAK	15"	3
DOUBLE OAK	15"	1
OAK	17"	1
OAK	18"	2
OAK	20"	2
TRIPLE OAK	20"	1
QUAD OAK	20"	1
SUBTOTAL TREE I	DBH	272"
	S WITHIN SIDEWA	ALKS / AD
ROUTES OAK	18"	1
OAK	19"	1
	21"	1
OAK SUBTOTAL TREE [58"
	ES WITHIN PARKIN	
DRIVEWAY	-5 WITHIN PARKIN	, , , , , , , , , , , , , , , , , , ,
DOUBLE OAK	10"	1
OAK	11"	2
OAK	12"	3
TRIPLE OAK	12"	1
OAK	15"	1
OAK	16"	2
OAK	19"	1
SUBTOTAL TREE I	DBH	146"
	S REMOVED FOR	GRADING
FOR SCM OAK	11"	2
	12"	1
OAK		
OAK	13"	1
DBL OAK	13"	1
OAK	15"	2
OAK	16"	1
OAK	18"	2
OAK	19"	2
OAK	21"	1
SUBTOTAL TREE I		201"
REGULATED TREE REQUIRED UTILIT	S TO BE REMOVE Y CONNECTIONS	D FOR
DBL OAK	10"	1
OAK	11"	6
OAK	12"	1
	13"	1
		<u> </u>
OAK	14"	1
OAK OAK	14"	
OAK OAK	14"	1
OAK OAK OAK	14" 15" 17"	1 1
OAK OAK OAK OAK	14" 15" 17" 16"	1 1 1
OAK OAK OAK	14" 15" 17" 16" 18"	1 1

ALL TREES SHOWN TO BE REMOVED ARE WITHIN THE LIMITS OF DISTURBANCE NECESSARY FOR ESSENTIAL SITE IMPROVEMENTS FOR THIS SITE.



DURING

CONSTRUCTION

SHEET 2 of 2

SCALE ____NOT TO SCALE



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CITY OF WILMINGTON ENGINEERING

SD 15-09

PO BOX 1810
WILMINGTON, NC 28402

(910) 341-7807

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NOVANT HEALTH FAMILY MEDICAL CLINIC -**GREENFIELD**

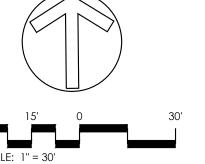
1423 GREENFIELD STREET, WILMINGTON, NC

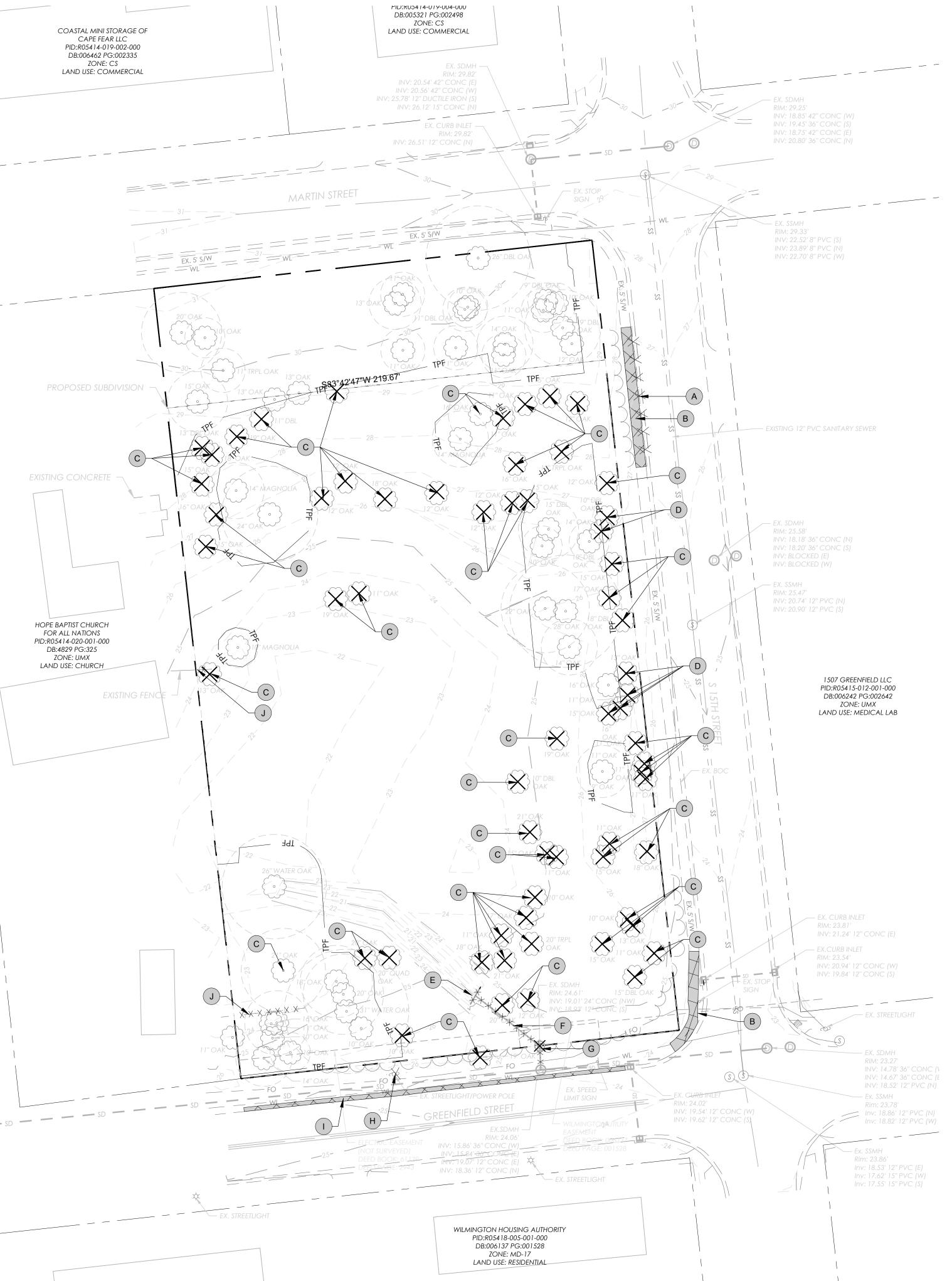
No.	Description	Date

PERMIT SET

TREE INVENTORY PLAN

J. ADRIATICO PROJECT NUMBER





DEMOLITION

KEY DESCRIPTION

- A CURB AND GUTTER TO BE REMOVED TO LIMITS SHOWN
- (B) SIDEWALK TO BE REMOVED TO LIMITS SHOWN
- (C) TREE TO BE REMOVED IN IT'S ENTIRETY
- TREE TO BE CUT AT GROUND LEVEL AND STUMP GROUND 6" BELOW SURFACE
- (E) WALL TO BE REMOVED IN IT'S ENTIRETY
- STORM DRAIN PIPES TO BE CAPPED AND REMOVED PER CITY OF WILMINGTON REQUIREMENTS AFTER TEMPORARY DIVERSION DITCH #1 IS TIED INTO PROPOSED OUTLET PIPES
- G STORM DRAINAGE MANHOLE TO BE REMOVED IN IT'S ENTIRETY
- EXISTING UTILITY POLE TO BE RELOCATED. CONTRACTOR TO COORDINATE WITH UTILITY PROVIDER FOR RELOCATION.
- EDGE OF PAVEMENT TO BE SAWCUT & REMOVED FOR INSTALLATION OF CURB AND GUTTER
- J FENCE TO BE REMOVED TO PROPERTY BOUNDARY

DEMOLITION AND EROSION CONTROL NOTES

- 1. EROSION CONTROL MEASURES AND TREE PROTECTION FENCE SHALL BE INSTALLED PRIOR TO ANY CONSTRUCTION ACTIVITIES.
- MAINTENANCE OF TRAFFIC AND TRAFFIC CONTROL IS THE SOLE RESPONSIBILITY OF
 THE SITE CONTRACTOR. THESE PLANS ARE TO SERVE ONLY AS A GENERAL GUIDE
 AND IN NO WAY LIMITS THE SITE CONTRACTOR FROM MAINTAINING TRAFFIC
 CONTROL IN ACCORDANCE WITH NCDOT STANDARDS AND THE MANUAL OF
 UNIFORM TRAFFIC CONTROL DEVICES, OR AS DIRECTED BY THE LOCAL
 MUNICIPALITY.
- 3. CONTRACTOR TO ACQUIRE PROPER DEMOLITION PERMITS PRIOR TO REMOVAL OF EXISTING STRUCTURES/UTILITIES.
- 4. SITE CONTRACTOR SHALL BE RESPONSIBLE TO CONTROL AND TO INITIATE CLEAN-UP OF LITTER AND REFUSE GENERATED BY HIMSELF AND SUBCONTRACTORS. THE CLEAN-UP OF LITTER AND REFUSE SHALL BE DONE ON A REGULAR BASIS, AND SHALL INCLUDE INITIATING ACTION AND ASSUMING ANY COST IN REMEDYING THE SITUATION. ALL REFUSE AND DEBRIS SHALL BE DISPOSED OF LAWFULLY AT AN OFF-SITE LOCATION.
- 5. WHERE APPLICABLE, TREE PROTECTION FENCE IS THE LIMITS OF DISTURBANCE.

PAVEMENT TO BE REMOVED

TREE TO BE REMOVED

TREE PROTECTION FENCE

(LOD)

DEMOLITION LEGEND

neighboring concepts

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Call before you dig.

NOTICE:

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1423 GREENFIELD STREET, WILMINGTON, NC

No.	Description	Date

PERMIT SET

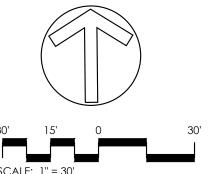
DEMOLITION PLAN

ISSUE DATE
CHECKED

01/12/202

L. DICKSON
SHEET BY
J. ADRIATICO
PROJECT NUMBER

CX100



LAND USE: COMMERCIAL 46'x46' CORNER SITE DISTANCE TRIANGLE PRIVATE UTILITY EASEMENT 20'x70' SITE DISTANCE TRIANGLE 10' FRONT SETBACK TREE PROTECTION 20'x70' SITE DISTANCE PRIVATE DRAINAGE TRIANGLE EASEMENT STORMWATER CONTROL **MEASURE** HOPE BAPTIST CHURCH FOR ALL NATIONS PID:R05414-020-001-000 S DB:4829 PG:325 ZONE: UMX LAND USE: CHURCH 1507 GREENFIELD LLC PID:R05415-012-001-000 ZONE: UMX LAND USE: MEDICAL LAB S N Ш TREE PROTECTION FENCE (LOD) ENTRANCE VESTIBULE MEDICAL OFFICE PARKING BUILDING 7,797 SQFT MAIN ENTRANCE TREE PROTECTION 46'x46' CORNER SITE DISTANCE TRIANGLE 10' FRONT SETBACK -WILMINGTON HOUSING AUTHORITY PID:R05418-005-001-000 DB:006137 PG:001528 ZONE: MD-17 LAND USE: RESIDENTIAL

COASTAL MINI STORAGE OF CAPE FEAR LLC PID:R05414-019-004-000 DB:005321 PG:002498 ZONE: CS

LAND USE: COMMERCIAL

COASTAL MINI STORAGE OF

CAPE FEAR LLC PID:R05414-019-002-000

DB:006462 PG:002335 ZONE: CS

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL SETBACKS, EASEMENTS, AND DIMENSIONS SHOWN HEREIN BEFORE BEGINNING CONSTRUCTION.
- ALL AREAS OUTSIDE THE "LIMITS OF CONSTRUCTION" SHALL REMAIN UNDISTURBED AT ALL TIMES.
- TRAFFIC CONTROL IS THE RESPONSIBILITY OF THE CONTRACTOR. VEHICULAR ACCESS SHALL BE MAINTAINED AT ALL TIMES.
- FIRE LANE MARKINGS SHALL CONFORM TO THE CITY OF WILMINGTON DESIGN DETAILS AND SPECIFICATIONS, CITY OF WILMINGTON FIRE MARSHAL, AND THE CURRENT NC FIRE CODE. IF THE CRITERIA IS CONFLICTING, THE MORE RESTRICTIVE DESIGN GUIDELINE SHALL BE FOLLOWED.
- ALL INTERNAL PAVEMENT MARKINGS SHALL BE WHITE PAINT.
- ALL PAVEMENT MARKINGS WITHIN A PUBLIC RIGHT-OF-WAY SHALL BE THERMOPLASTIC.
- ALL PAVED PARKING FACILITIES SHALL BE STRIPED WITH FOUR INCH WHITE LINES.
- ALL ADA RAMPING, STRIPING, AND PAVEMENT MARKINGS SHALL CONFORM TO THE CURRENT ADA REQUIREMENTS AND NORTH CAROLINA BUILDING CODE.
- 9. ACCESSIBLE PARKING SPACE DIMENSIONS, SLOPE AND SIGNAGE SHALL COMPLY WITH THE MOST RECENT VERSION OF ANSI/ICC A117.1.
- 10. LANDINGS ARE REQUIRED AT THE TOP OF ALL CURB RAMPS IN ACCORDANCE WITH
- 11. LANDINGS ARE REQUIRED AT THE TOP AND BOTTOM OF ALL STAIRS IN ACCORDANCE WITH THE LATEST NC BUILDING CODE.
- 12. ALL SIDEWALKS SHALL BE CONSTRUCTED OF CONCRETE.

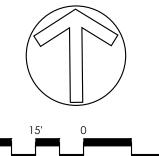
SITE IMPROVEMENTS

- 13. ALL ACCESSIBLE ROUTES SHALL COMPLY WITH THE LATEST VERSION OF THE NC BUILDING CODE.
- 14. DOORS ARE INDICATED ON ALL BUILDINGS FOR WHICH ARCHITECTURAL DESIGN HAS OCCURRED.
- 15. TRAFFIC CONTROL ON PUBLIC STREETS IS THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE IN CONFORMANCE WITH THESE PLANS, THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES", AND AS FURTHER DIRECTED BY THE CITY OF WILMINGTON AND NCDOT.
- 16. ALL ON-SITE PAVEMENT SHALL BE STANDARD ASPHALT, UNLESS OTHER WISE NOTED
- 17. WHERE PROPOSED PAVEMENT ABUTS EXISTING PAVEMENT, CONTRACTOR SHALL MILL 1.5"x1.5" LAP JOINT IN EXISTING PAVEMENT.
- 18. NO PARKING SPACES, FENCES, WALLS, POSTS, LIGHTS, SHRUBS, TREES, OR OTHER TYPE OF OBSTRUCTIONS NOT SPECIFICALLY EXEMPTED SHALL BE PERMITTED IN THE SPACE BETWEEN 30 INCHES AND ABOVE GROUND AND 10 FEET ABOVE GROUND LEVEL WITHIN A TRIANGULAR SIGHT DISTANCE.
- 19. ALL PROPOSED VEGETATION WITHIN SIGHT TRIANGLES SHALL NOT INTERFERE WITH CLEAR VISUAL SIGHT LINES FROM 30" TO 10' (VERTICALLY).
- 20. EXISTING WHEELCHAIR RAMPS SHALL BE RETROFITTED WITH FLEXIBLE SURFACE-APPLIED DETECTABLE WARNING MATS.
- 21. WHERE APPLICABLE, TREE PROTECTION FENCE IS THE LIMITS OF DISTURBANCE.

311E	INITRO V ENICINIS				
KEY	DESCRIPTION	DETAIL	SHEET		
A	COMMERCIAL DRIVEWAY	SD 3-03.03	CS500		
В	SIDEWALK	SD 3-10	CS500		
(C)	24" CURB & GUTTER	SD 3-11	CS500		
D	HEAVY DUTY CONCRETE PAVING	2	CS501		
E	HEAVY DUTY ASPHALT PAVING	3	CS501		
F	STANDARD DUTY ASPHALT PAVING	1	CS501		
G	CONCRETE WHEEL STOP	4	CS501		
H	SEAT WALL	2	CS502		
	DUMPSTER ENCLOSURE	1	CS502		
J	ACCESSIBLE PARKING SPACES	5	CS501		
L	BIKE RACK	6	CS501		
M	TURNDOWN SIDEWALK	7	CS501		
N	8' BACKLESS HUDSON BENCH AS MANUFACTURED BY FORMS + SURFACES. TO BE SURFACE MOUNTED PER MANUFACTURER'S DETAILS & SPECIFICATIONS				
0	6' HUDSON BENCH, WITH BACK, AS MANUFACTURED BY FORMS + SURFACES. TO BE SURFACE MOUNTED PER MANUFACTURER'S SPECIFICATIONS & DETAILS.				
P	TRASH RECEPTACLE				
Q	ELECTRIC VEHICLE READY PARKING SPACES - SEE MEP PLANS				
R	SPLASH BLOCK. REFERENCE ARCHITECTURAL SPECIFICATION	ONS FOR FUR	THER		
S	ACCESSIBLE RAMP	SD3-07	CS500		
	I				

PAVEMENT LEGEND					
	CONCRETE				
	HEAVY DUTY CONCR				
	HEAVY DUTY ASPHAL				

T CONCRETE FLUME



CD501

IOTES	SITE DATA TABLE			
THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL SETBACKS,	ADDRESS	1410 S 15TH STREET WILMINGTON, NC 28401		
EASEMENTS, AND DIMENSIONS SHOWN HEREIN BEFORE BEGINNING CONSTRUCTION.	OWNER	NOVANT HEALTH, INC.		
	PIN	3127-32-9330.000		
ALL AREAS OUTSIDE THE "LIMITS OF CONSTRUCTION" SHALL REMAIN UNDISTURBED AT ALL TIMES.	PARCEL ID #			
	ZONING DISTRICT	R05414-020-002-000		
TRAFFIC CONTROL IS THE RESPONSIBILITY OF THE CONTRACTOR. VEHICULAR ACCESS SHALL BE MAINTAINED AT ALL TIMES.	LIMITS OF DISTURBANCE	UMX 66,473 SF / 1.53 AC		
	LIMITS OF DISTORBANCE	00,473 3F / 1.33 AC		
FIRE LANE MARKINGS SHALL CONFORM TO THE <u>CITY OF WILMINGTON</u> DESIGN DETAILS AND SPECIFICATIONS, <u>CITY OF WILMINGTON</u> FIRE MARSHAL, AND THE	PROJECT LOT AREA	CURRENT: 2.00 ACRES (87,120SF)	PROPOSED: 1.69 ACRES (73,716SF)	
CURRENT NC FIRE CODE. IF THE CRITERIA IS CONFLICTING, THE MORE RESTRICTIVE DESIGN GUIDELINE SHALL BE FOLLOWED.	WATERSHED	GREENFIELD LAKE		
DESIGN COIDELINE STIALE DE L'OLEC WED.	RIVER BASIN	CAPE FEAR		
ALL INTERNAL PAVEMENT MARKINGS SHALL BE WHITE PAINT.	FLOODPLAIN	N/A		
ALL PAVEMENT MARKINGS WITHIN A PUBLIC RIGHT-OF-WAY SHALL BE	WATERSHED OVERLAY DISTRICT	N/A		
THERMOPLASTIC.	USE	CURRENT: VACANT	PROPOSED: OFFICE & MEDICAL CLINIC	
ALL PAVED PARKING FACILITIES SHALL BE STRIPED WITH FOUR INCH WHITE LINES.	IMPERVIOUS	CURRENT: 0 SF	PROPOSED: 31,933 SF (0.73 AC)	
ALL ADA RAMPING, STRIPING, AND PAVEMENT MARKINGS SHALL CONFORM TO THE CURRENT ADA REQUIREMENTS AND NORTH CAROLINA BUILDING CODE.	CAMA LAND USE CLASSIFICATION	URBAN		
	URBAN MIXED-USE DIMENSIONAL	STANDARDS (UDO Table 18-43.1)		
ACCESSIBLE PARKING SPACE DIMENSIONS, SLOPE AND SIGNAGE SHALL COMPLY WITH THE MOST RECENT VERSION OF ANSI/ICC A117.1.	SITE IS INSIDE THE 1945 CORPORA	TE LIMITS		
	SETBACKS	REQUIRED	PROVIDED	
LANDINGS ARE REQUIRED AT THE TOP OF ALL CURB RAMPS IN ACCORDANCE WITH THE LATEST NC BUILDING CODE, MAXIMUM SLOPE SHALL NOT BE STEEPER THAN 1:48	FRONT	10' MAXIMUM	20'	
IN ALL DIRECTIONS.	SIDE	5' MINIMUM	59'	
LANDINGS ARE REQUIRED AT THE TOP AND BOTTOM OF ALL STAIRS IN	REAR	5' MINIMUM	12'	
ACCORDANCE WITH THE LATEST NC BUILDING CODE.	BUILDING HEIGHT	45' MAXIMUM	24'-0"	
ALL SIDEWALKS SHALL BE CONSTRUCTED OF CONCRETE.	BUILDING INFORMATION			
ALL A COFFERING DOLLTES SHALL COLADIVAMITH THE LATEST VEDSION OF THE MC	BUILDING CONSTRUCTION TYPE	II-B		
ALL ACCESSIBLE ROUTES SHALL COMPLY WITH THE LATEST VERSION OF THE NC BUILDING CODE.	BUILDING LOT COVERAGE	8.90%		
DOODS ARE INDICATED ON ALL RUILDINGS FOR WHICH ARCHITECTURAL DESIGNA	SQUARE FOOTAGE	7,797 SF		
DOORS ARE INDICATED ON ALL BUILDINGS FOR WHICH ARCHITECTURAL DESIGN HAS OCCURRED.	TOTAL SQUARE FOOTAGE	7,799 SF		
TRACEIC CONTROL ON RUBLIC STREETS IS THE RESPONSIBILITY OF THE CONTRACTOR	NONRESIDENTIAL BASELINE PARKING RATIOS BY USE (UDO Table 18-341.2)			
TRAFFIC CONTROL ON PUBLIC STREETS IS THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE IN CONFORMANCE WITH THESE PLANS, THE "MANUAL OF UNIFORM		REQUIRED	PROVIDED	
TRAFFIC CONTROL DEVICES", AND AS FURTHER DIRECTED BY THE <u>CITY OF</u> WILMINGTON AND NCDOT.	PARKING SPACES	NO REQUIREMENT	19 SPACES (2 ADA)	
ALL ON-SITE PAVEMENT SHALL BE STANDARD ASPHALT, UNLESS OTHER WISE NOTED.	BICYCLE PARKING	2 SPACES OR 1 PER 5,000 SF OF GFA	3 RACKS / 6 SPACES	
	ESTIMATED TRIP GENERATION			
WHERE PROPOSED PAVEMENT ABUTS EXISTING PAVEMENT, CONTRACTOR SHALL MILL 1.5"x1.5" LAP JOINT IN EXISTING PAVEMENT.	AM	PM	ADT	

- ALL DRIVEWAYS ALONG MAJOR THOROUGHFARES SHALL HAVE A PROPERTY LINE OFFSET OF 75' MEASURED AT THE CURBLINE. PROJECT DRIVEWAYS WILL HAVE TO SUBMIT FOR A VARIANCE DURING WILMINGTON TRC REVIEW.
- 2. ANY FREE STANDING SIGN(S) ON THE SITE SHALL BE MONUMENT STYLE WITH LANDSCAPING AROUND THE BASE OF THE SIGN; NO POLE SIGNS SHALL BE PERMITTED.

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NOVANT HEALTH FAMILY MEDICAL CLINIC -EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. **GREENFIELD**

3 WORKING DAYS

FOR THE LOCATION OF UNDERGROUND FACILITIES

BEFORE YOU DIG

Know what's below.

Call before you dig.

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE

CONSTRUCTION SITE SAFETY IS THE SOLE RESPONSIBILITY OF

THE CONTRACTOR NEITHER THE OWNER NOR THE ENGINEER SHALL BE EXPECTED TO ASSUME ANY RESPONSIBILITY FOR

SAFETY OF THE WORK, OF PERSONS ENGAGED IN THE WORK,

OF ANY NEARBY STRUCTURES, OR OF ANY OTHER PERSONS.

ALL CONSTRUCTION SHALL BE IN ACCORDANCE

WITH ALL CITY OF WILMINGTON AND NCDOT

STANDARDS AND SPECIFICATIONS

1423 GREENFIELD STREET, WILMINGTON, NC

No.	Description	

PERMIT SET

SITE PLAN

L. DICKSON

J. ADRIATICO PROJECT NUMBER 21-025

CAPE FEAR LLC PID:R05414-019-004-000 DB:005321 PG:002498 ZONE: CS COASTAL MINI STORAGE OF LAND USE: COMMERCIAL CAPE FEAR LLC PID:R05414-019-002-000 DB:006462 PG:002335 ZONE: CS LAND USE: COMMERCIAL 46'x46' CORNER SIGHT DISTANCE TRIANGLE 20'X70' SIGHT DISTANCE TRIANGLE 10' FRONT SETBACK **FIRELANE** STRIPING (TYP) STOPSIGN FIRELANE STRIPING (TYP) NO PARKING STORMWATER CONTROL HOPE BAPTIST CHURCH MOTORCYCLE FOR ALL NATIONS PARKING PID:R05414-020-001-000 DB:4829 PG:325 ZONE: UMX LAND USE: CHURCH 1507 GREENFIELD LLC PID:R05415-012-001-000 ZONE: UMX LAND USE: MEDICAL LAB SSIBLE 7 Ш ENTRY VESTIBULE FIRELANE STRIPING (TYP) MEDICAL OFFICE BUILDING "NO PARKING" 7,797 SQFT - ENTRY GREENFIELD STREET VESTIBULE 46'x46' CORNER SIGHT DISTANCE TRIANGLES WILMINGTON HOUSING AUTHORITY PID:R05418-005-001-000 DB:006137 PG:001528 ZONE: MD-17 LAND USE: RESIDENTIAL

COASTAL MINI STORAGE OF

PAVEMENT MARKING & SIGNAGE PLAN Scale: 1" = 30'

	PAVEMENT MARKINGS					
MARKING TYPE		NCDOT STD.	SIZE	COLOR		
PARKING SPACES **			4-IN	WHITE		
DIRECTIONAL ARROWS		1205.08	STANDARD	WHITE		
NO PARKING FIRE LANE *			4-IN	YELLOW		
DIAGONAL		1205.09	8-IN	YELLOW		

* NO PARKING - FIRE LANE MARKING SHALL BE THERMOPLASTIC AND CONFORM TO CITY OF WILMINGTON STANDARD DETAIL/SPECIFICATIONS FIRE LANE STRIPING AND CONSIST OF A 4" SOLID YELLOW STRIPE AND 8" HIGH YELLOW TEXT "NO PARKING - FIRE LANE" AT 40' INTERVALS.

** PARKING STRIPING TO BE WHITE ALKYD PAINT.

SIGNAGE			
SIGN TYPE	MUTCD STANDARD	SIZE	
STOP	R1-1	30"X30"	
NO PARKING ANYTIME	R7-1D	12"X18"	
ACCESSIBLE PARKING SYMBOL	3B-22	28"X24"	
NO PARKING LOADING ZONE	R7-6	12"X18"	
MOTORCYCLE PARKING		12"X18"	

PAVEMENT MARKING AND SIGNAGE NOTES:

- . ALL SITE SIGNAGE SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND NCDOT STANDARDS.
- 2. ALL SIGNS ARE TO BE MOUNTED WITH 7 FT MINIMUM. VERTICAL CLEARANCE TO THE BOTTOM OF THE SIGN, ON 3 LB
- GALVANIZED STEEL U-CHANNEL POST AND SET WITHIN 3 FT DEEP X 12 INCH DIAMETER CONCRETE FOOTING.
- ALL PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH NCDOT STANDARDS AND PROJECT SPECIFICATIONS. COORDINATE FIRE LANE MARKINGS WTIH CITY OF WILMINGTON FIRE MARSHAL.
- 5. ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC TYPE EXCEPT FOR PARKING SPACE LINES WHICH SHALL BE ALKYD-RESIN
- 6. ALL SIGNAGE SHALL BE FIELD STAKED AND THE LOCATIONS APPROVED BY THE PROJECT MANAGER PRIOR TO SIGN
- INSTALLATION. CENTER ALL DIRECTIONAL ARROWS WITHIN TRAVEL LANE.
- 8. COORDINATE FIRE LANE MARKINGS WITH TOWN OF MOORESVILLE FIRE MARSHAL.
- 9. ALL SIGNS SHALL USE PRISMATIC SHEETING THAT MEETS MINIMUM REFLECTIVITY STANDARDS FOUND IN THE LATEST EDITION OF THE MUTCD.

CITY OF WILMINTON NOTES:

- ANY REQUIRED INSTALLATION OR RELOCATION OF TRAFFIC SIGNS/PAVEMENT MARKING IS THE RESPONSIBILITY OF THE PROJECT DEVELOPER. PLEASE COORDINATE WITH CITY TRAFFIC SIGNS AND PAVEMENT MARKINGS MANAGER/SUPERVISOR PRIOR TO INSTALLATION/RELOCATION OF ANY TRAFFIC SIGNS OR MARKINGS IN EXISTING OR PROPOSED PUBLIC ROW.
- 2. ALL PARKING STALL MARKINGS AND LANE ARROWS WITHIN THE PARKING AREAS
- 3. ANY BROKEN OR MISSING SIDEWALK PANELS AND CURBING WILL BE REPLACED. 4. CONTACT 811 PRIOR TO CONTACTING CITY OF WILMINGTON, TRAFFIC ENGINEERING
- REGARDING THE UTILITIES IN THE ROW. 5. CONTACT TRAFFIC ENGINEERING AT (910) 341-7888 TO DISCUSS STREET LIGHTING OPTIONS.





ARCHITECTURE■ PLANNING■ INTERIORS

1635 West Trade Street, Suite 1A Charlotte, North Carolina 28216 T:704.374.0916 F:704.342.3808

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NOVANT HEALTH FAMILY MEDICAL CLINIC -**GREENFIELD**

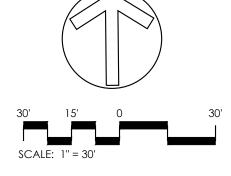
1423 GREENFIELD STREET, WILMINGTON, NC

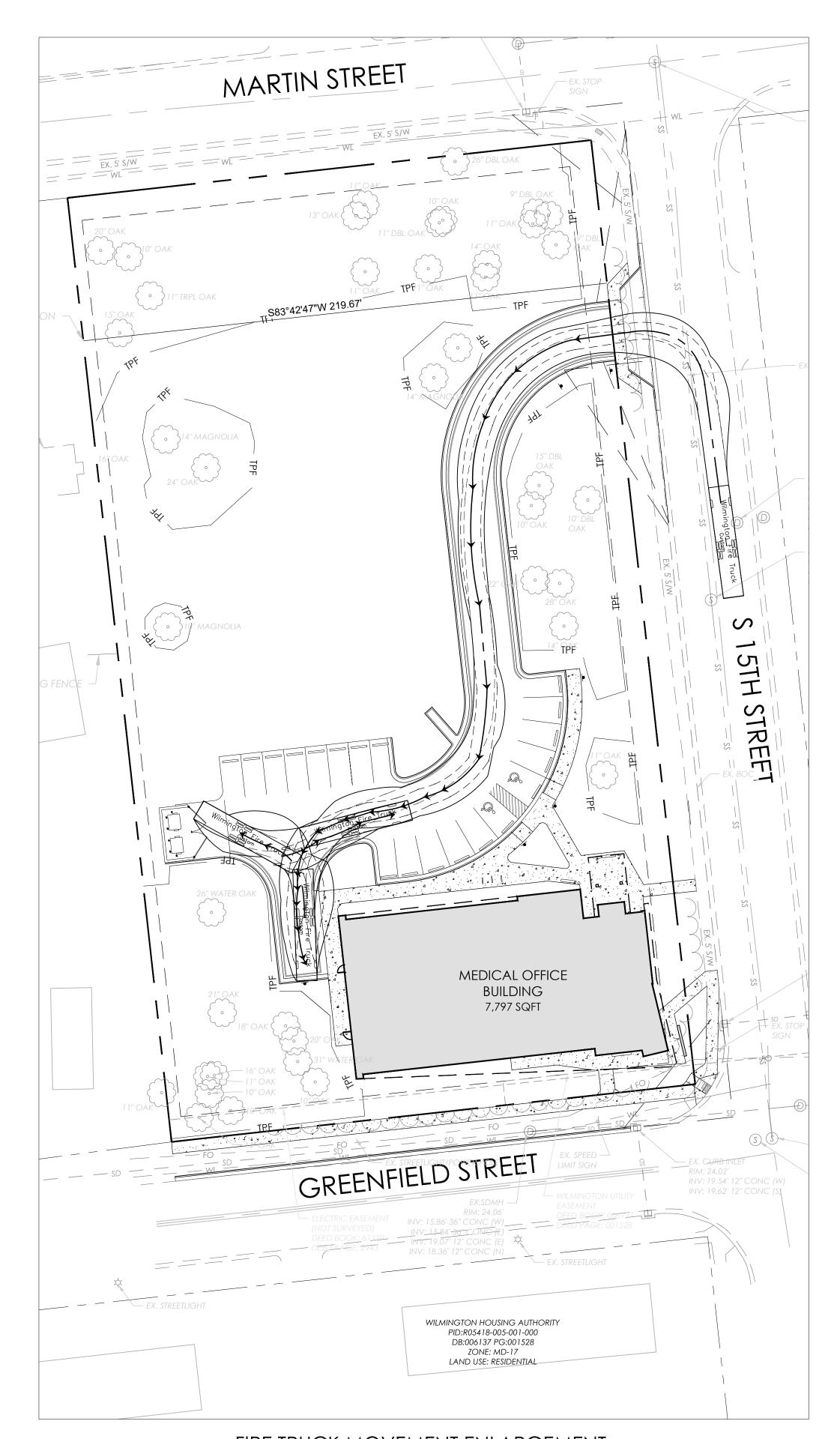
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PERMIT SET

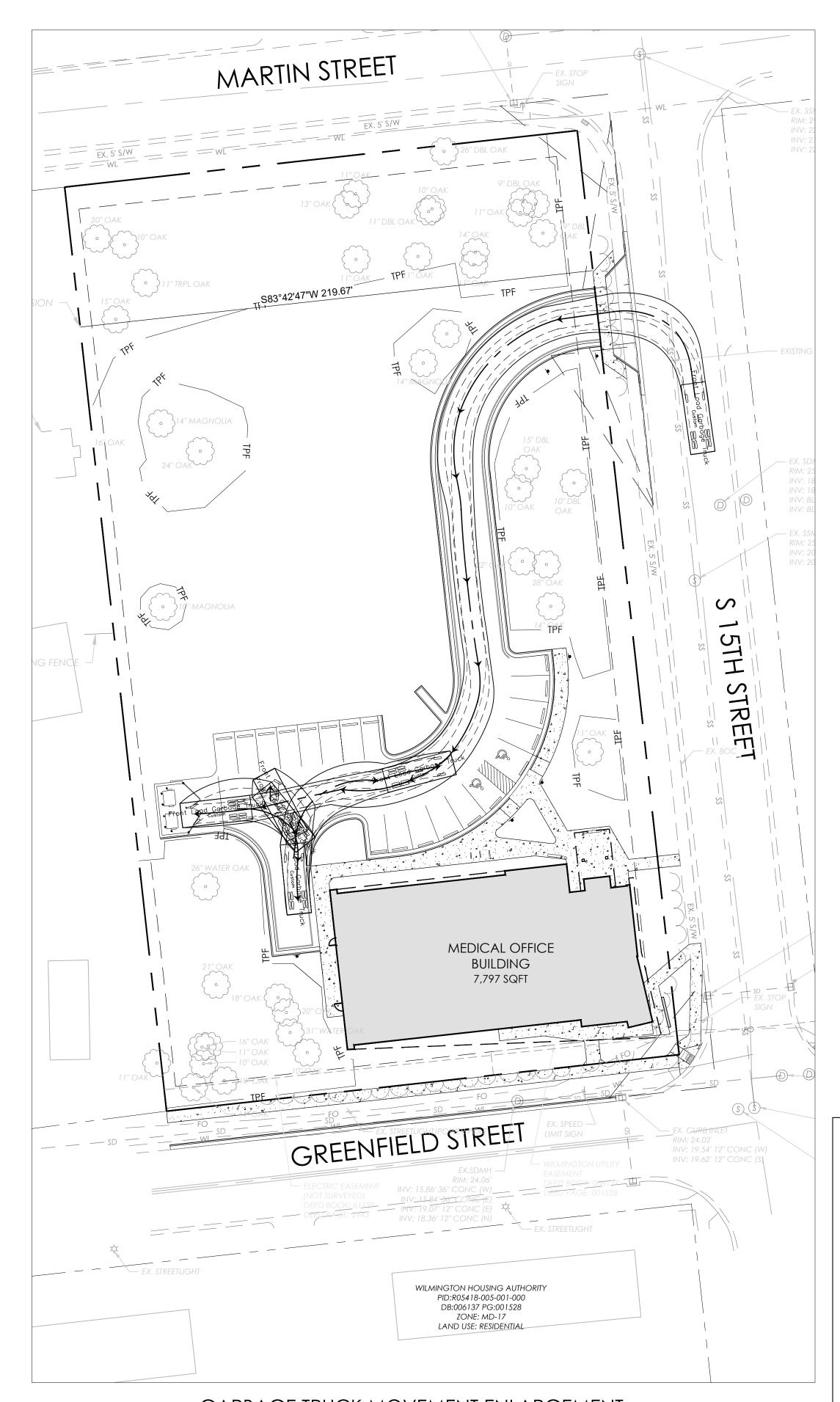
PAVEMENT MARKING & SIGNAGE PLAN

J. ADRIATICO PROJECT NUMBER

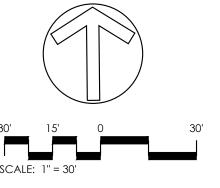




FIRE TRUCK MOVEMENT ENLARGEMENT



GARBAGE TRUCK MOVEMENT ENLARGEMENT Scale: 1" = 30'



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STANDARDS AND SPECIFICATIONS

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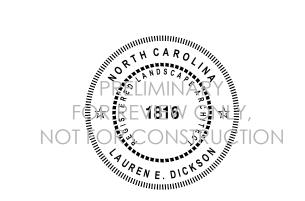
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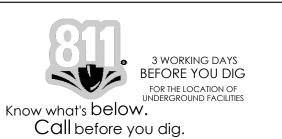
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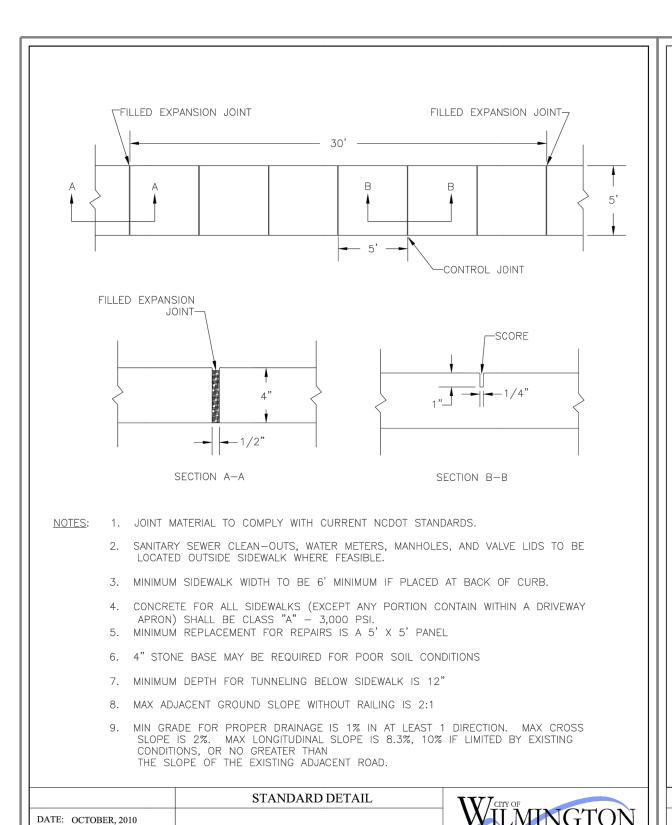
NOVANT HEALTH FAMILY MEDICAL CLINIC -**GREENFIELD**

1423 GREENFIELD STREET, WILMINGTON, NC

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TURN MANEUVER **ENLARGEMENTS**

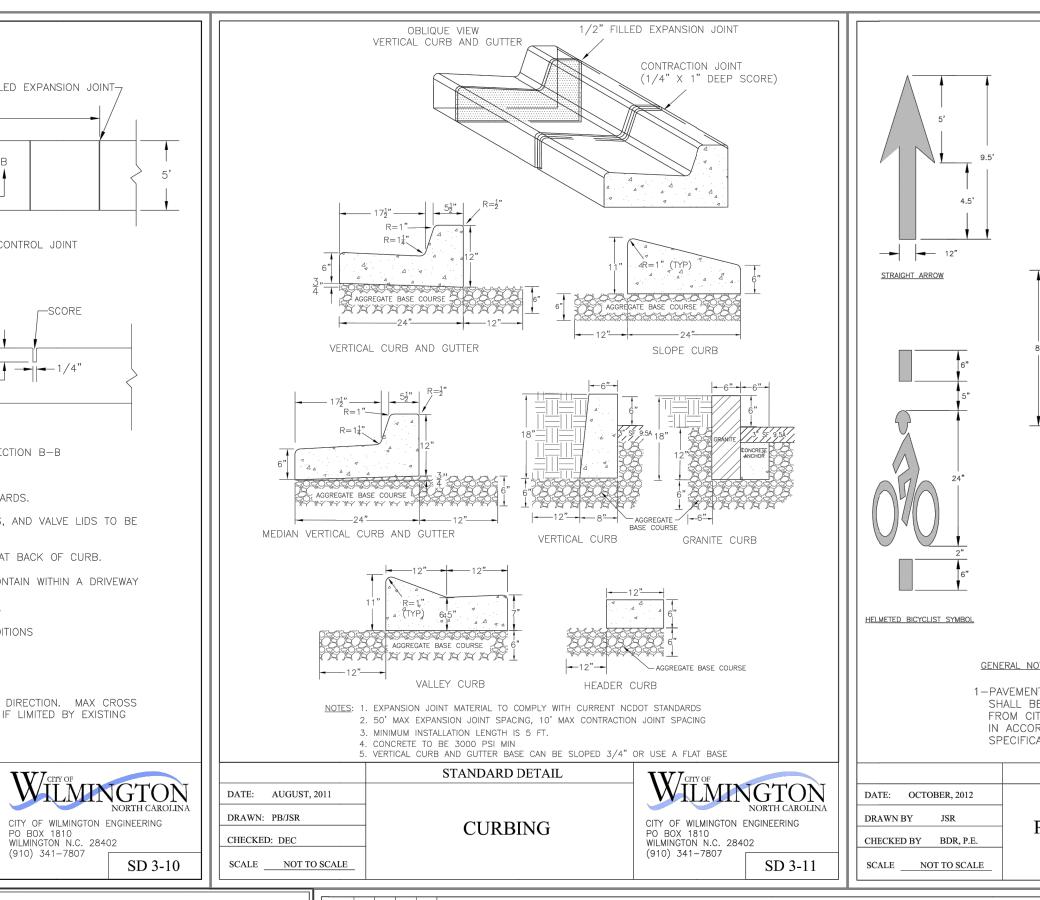


SIDEWALK

DRAWN: PB/JSR

CHECKED: DEC

SCALE NOT TO SCALE



STONE FOUNDATION

1.5' GUTTER

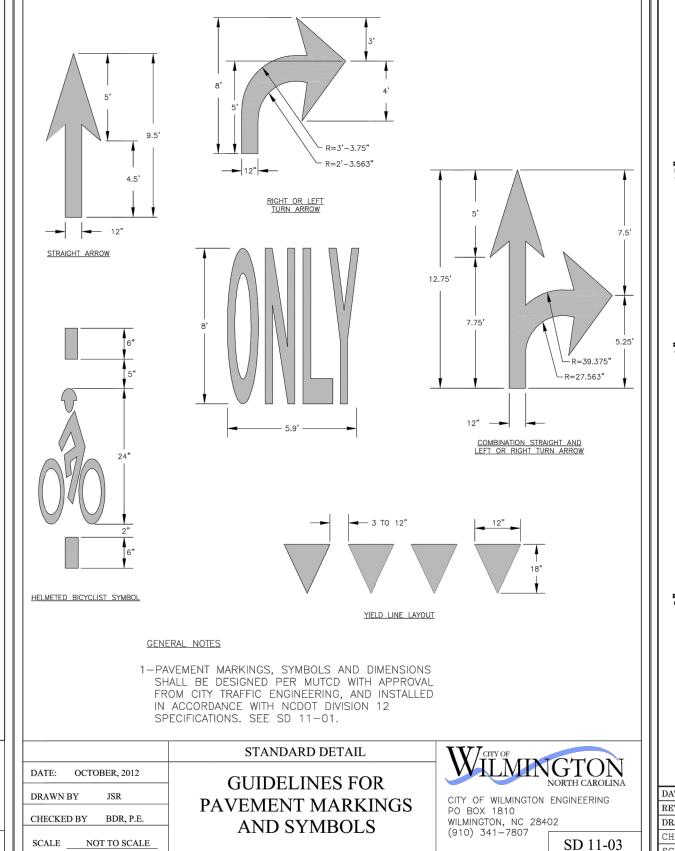
0.25' GUTTER

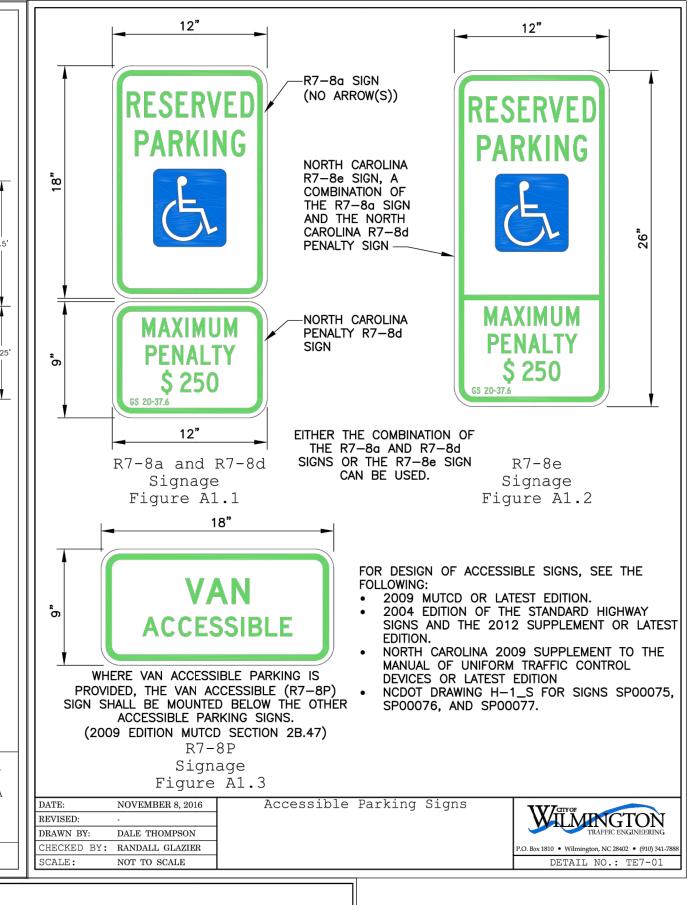
BACK OF CURB -FACE OF CURB -/

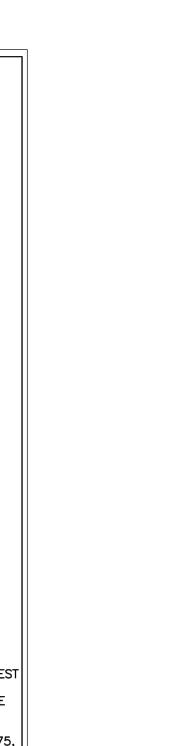
GUTTER LINE -

3' APRON

<u>INSET</u>









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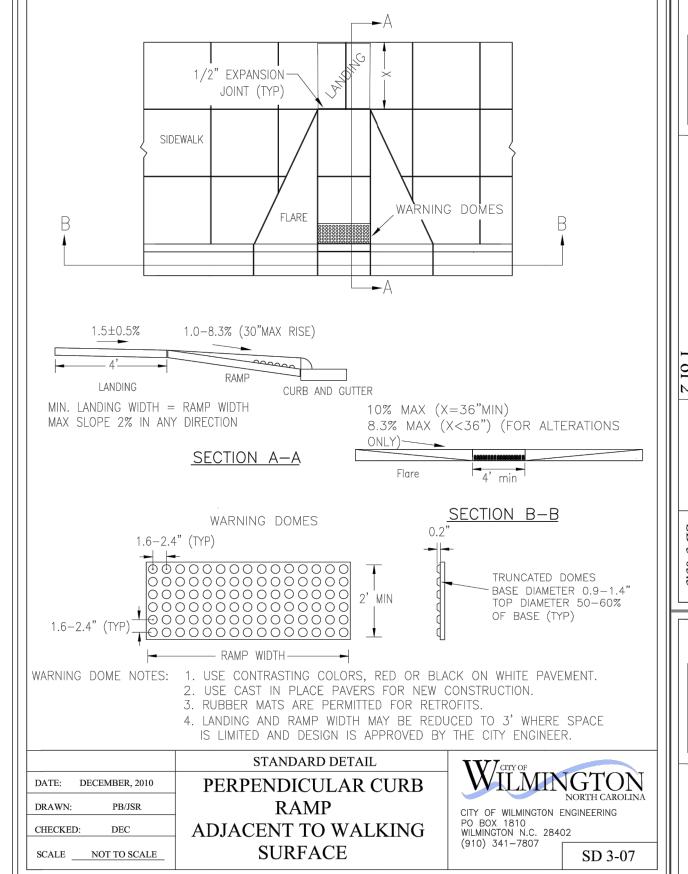
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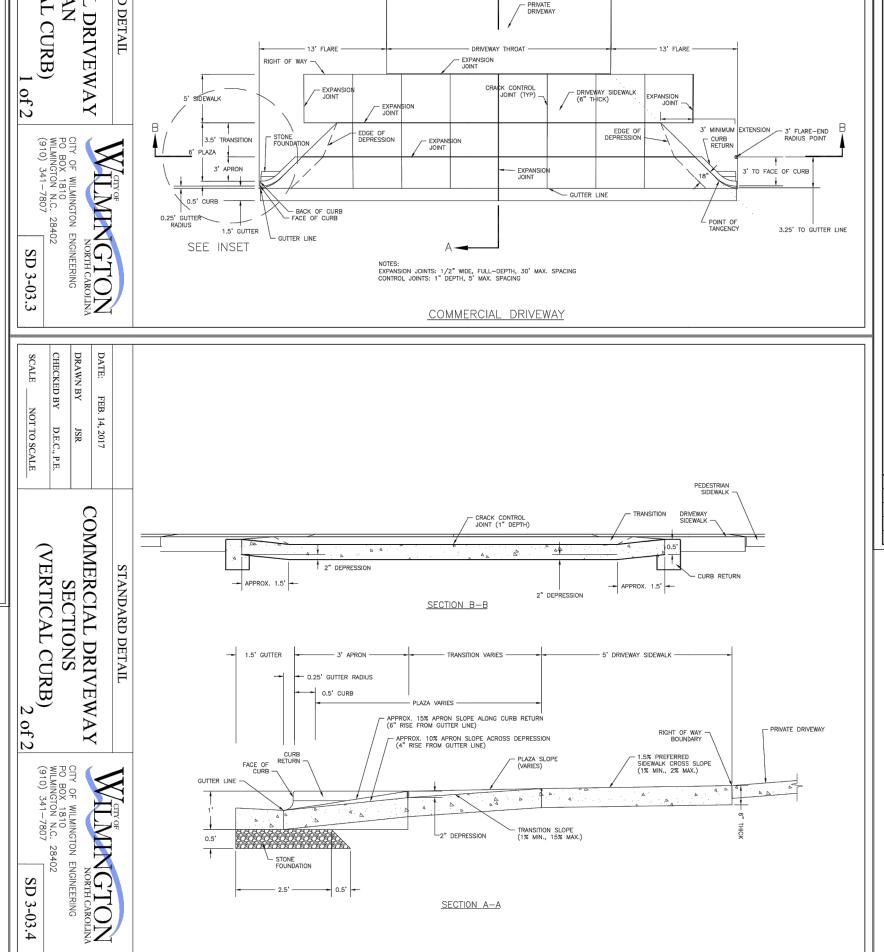
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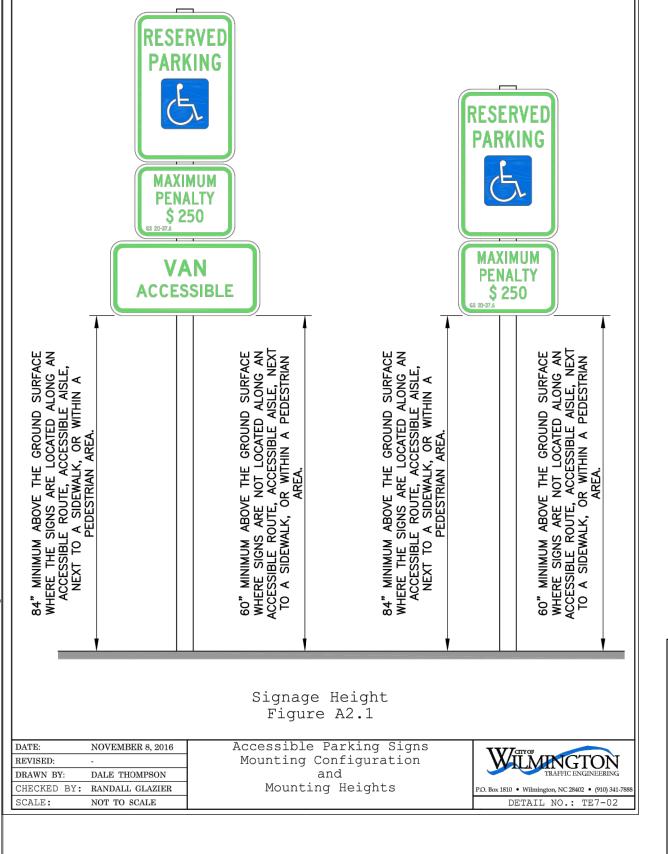




PO BOX 1810 WILMINGTON N.C. 28402



SECTION A-A





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GREENFIELD 1423 GREENFIELD STREET, WILMINGTON, NC

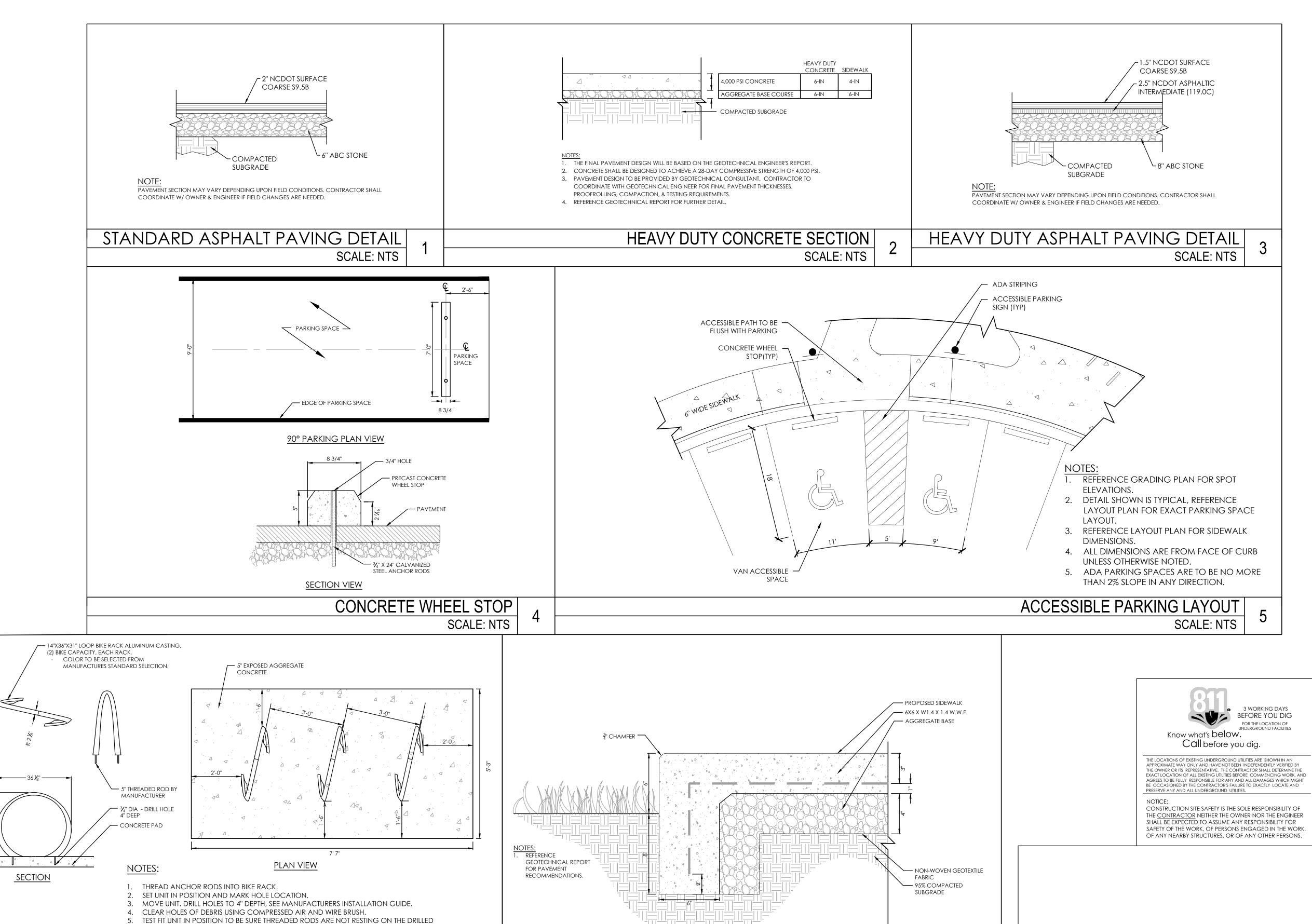
No.	Description	Date

PERMIT SET

SITE DETAILS

21-025

01/12/2023 L. DICKSON J. ADRIATICO PROJECT NUMBER



6. FILL HOLES WITH RECOMMENDED AMOUNT OF ANCHORING ADHESIVE/EPOXY.

BIKE RACK

7. SET UNIT IN POSITION.

8. WIPE AWAY EXCESS EPOXY BEFORE IT CURES.

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FER REVER ONSTRUCTION

NOVANT HEALTH
FAMILY MEDICAL
CLINIC GREENFIELD

1423 GREENFIELD STREET, WILMINGTON, NC

No. Description Date

SITE DETAILS

PERMIT SET

ISSUE DATE

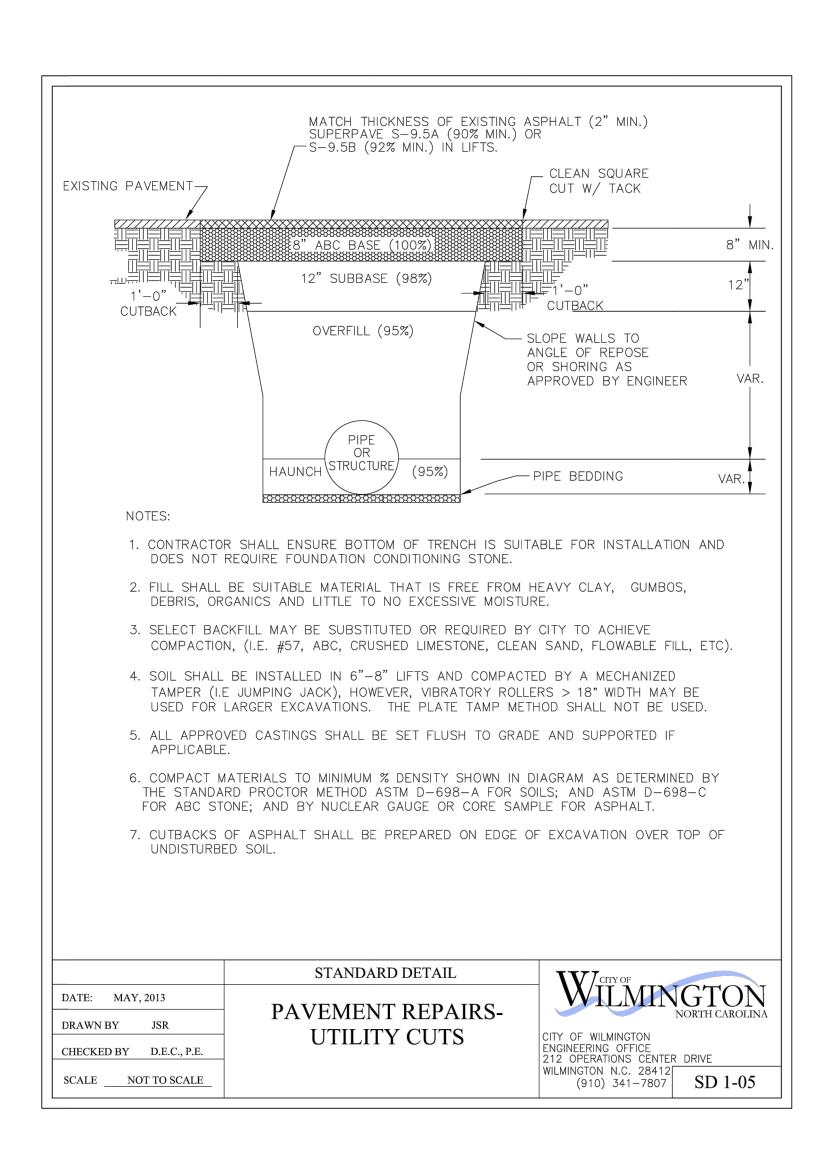
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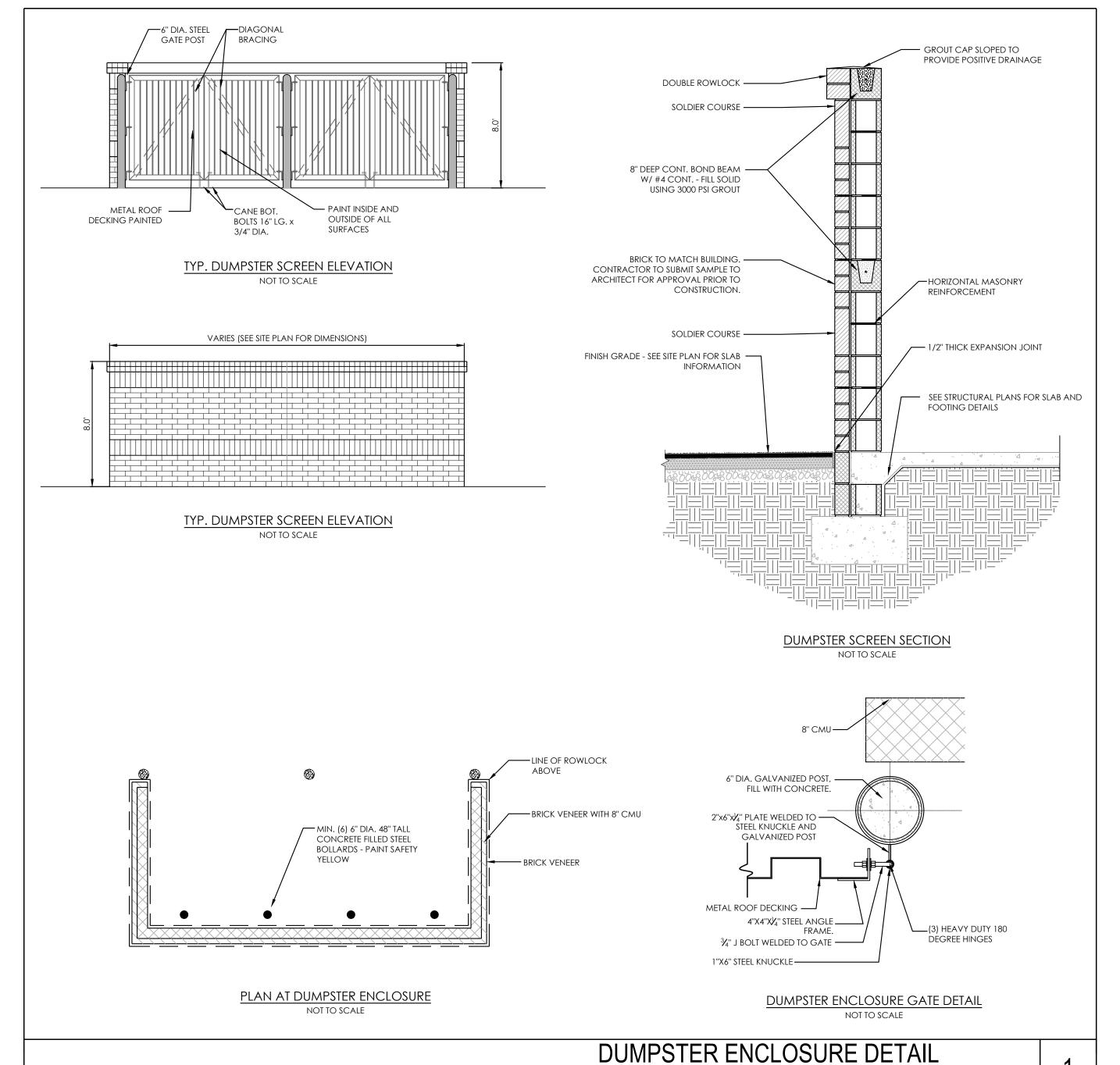
L. DICKSON
SHEET BY
J. ADRIATICO
PROJECT NUMBER
21-025

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL CITY OF WILMINGTON AND NCDOT STANDARDS AND SPECIFICATIONS

TURNDOWN SIDEWALK

SCALE: NTS







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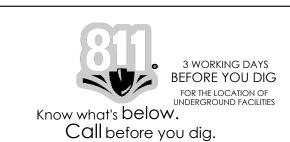
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SCALE: NTS

GREENFIELD 1423 GREENFIELD STREET, WILMINGTON, NC CONSTRUCTION SITE SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR NEITHER THE OWNER NOR THE ENGINEER



NOVANT HEALTH

FAMILY MEDICAL

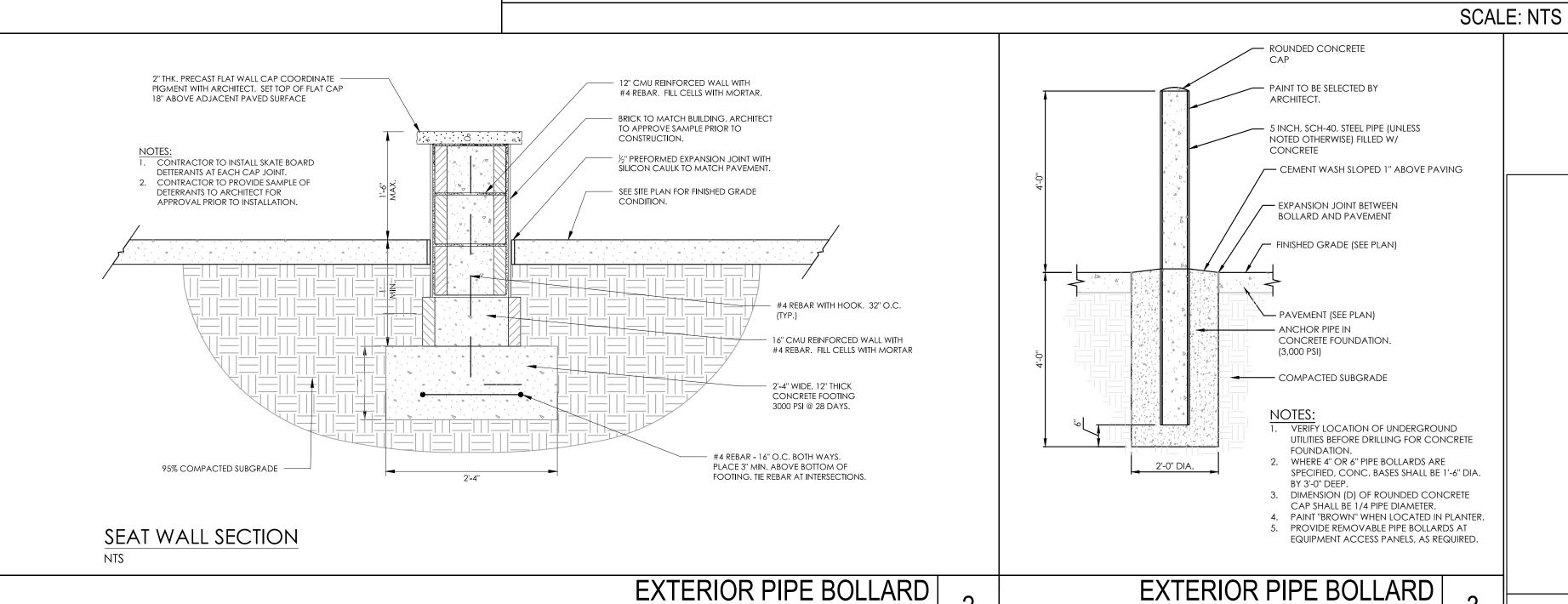
CLINIC -

PERMIT SET

SITE DETAILS

21-025

L. DICKSON J. ADRIATICO PROJECT NUMBER



SCALE: NTS

8x8x6 TS&V 2" TAPPING SADDLE - 6" GATE VALVE SEE DETAIL W-3 2" GATE VALVE 2" METER BOX = 6" RPZ BACKFLOW 2" RPZ BACKFLOW MODEL: FEBCO LF PREVENTER 860 LARGE MODEL: FEBCO LF EXISTING 8" DIP 860 LARGE WATER MAIN PRIVATE UTILITY EASEMENT 6" C900 PRIVATE 2" HDPE C901 -FIRE LINE DOMESTIC WATER SERVICE -583°42'47"\\ 219.67 STORMWATER CONTROL MEASURE INV: 20.74' 12" PVC (N) PID:R05414-020-001-000 30" SD & 2" DW CROSSING 2" C901 DW INV: 23.50' S 30" SD CROWN: 18.13' VERT. SEPERATION: 64.50" FIRE HYDRANT ASSEMBLY, SEE DETAIL W-9 12" EXISTING SANITARY SEWER MAIN 30" SD & 6" SS CROSSING 6" SCH. 40 PVC SS INV: 19.93' 30" SD CROWN: 17.85' VERT. SEPERATION: 24.00" SEWER SERVICE CONNECTION. 34.88 LF OF 4" SCH. 40 -SEE DETAIL S-9 PVC @ 2.00% SLOPE PRIVATE CLEAN OUT RIM: 24.80' INV: 20.18' SEWER TAP TO BE INSTALLED PUBLIC CLEAN OUT -PER CFPUA VCP TAP POLICY. INSTALLED 18" INSIDE R/W SEE SHEET CU501. RIM: 24.40' INV: 19.99' NOTE: THIS 8" PUBLIC WATER MAIN DOES **NOT EXIST** 10' FRONT SETBACK —

UTILITY NOTES

BEFORE YOU DIG, STOP. CALL THE NC ONE-CALL CENTER AT 1-800-632-4949. IT'S THE LAW. EXISTING UTILITIES ARE SHOWN FROM THE BEST AVAILABLE INFORMATION AND ARE APPROXIMATE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THESE AND OTHER UTILITIES BEFORE STARTING CONSTRUCTION. NOTIFY UTILITY LOCATING COMPANY (ONE CALL @ 1-800-632-4949) OR INDIVIDUAL UTILITY OWNERS FOR UNDERGROUND LOCATIONS AT LEAST 48 HOURS IN ADVANCE.

- THERE SHALL BE NO TAPS, PIPING BRANCHES, UNAPPROVED BYPASS PIPING, HYDRANTS, FIRE DEPT. CONNECTION POINTS, OR OTHER WATER-USING APPURTENANCES CONNECTED TO THE SUPPLY LINE BETWEEN ANY WATER METER AND BACKFLOW PREVENTER.
- ANY UTILITY CONSTRUCTION SHALL CONFORM TO CFPUA STANDARDS & SPECIFICATIONS.
- CONTRACTOR TO CONTACT UTILITY COMPANIES TO RELOCATE ANY EXISTING UTILITY POLES OR DISTRIBUTION MAINS. ALL EXISTING UTILITIES WHICH CONFLICT WITH THE IMPROVEMENTS UNDER THE SCOPE OF THIS PROJECT MUST BE RELOCATED AT THE EXPENSE OF THE APPLICANT. RECOMMEND THAT CONTRACTOR INVESTIGATES ALL POTENTIALLY IMPACTED UTILITIES IMMEDIATELY UPON BEGINNING PROJECT, AND NOTIFIES IMPACTED UTILITY COMPANIES AS SOON AS IT IS DETERMINED THAT RELOCATIONS ARE REQUIRED.
- BACKFLOW PREVENTER PERMIT REQUIRED FOR PROJECT. BACKFLOW PREVENTER INSTALLER MUST CONTACT CFPUA CROSS-CONNECTION CONTROL, DEPARTMENT OF WATER MANAGEMENT AT 910-332-6558 TO OBTAIN PERMIT AND INSTALLATION REQUIREMENTS PRIOR TO INITIATING WORK.
- ALL FIRE HYDRANTS AND FIRE DEPARTMENT CONNECTIONS MUST BE PROVIDED WITH 5" DIAMETER STORZ CONNECTIONS.
- FIRE DEPARTMENT CONNECTIONS MUST BE ORIENTED 45° TOWARD GRADE.
- PROVIDE FIRE PLANS EXAMINER ONE COPY OF UTILITY CONSTRUCTION DRAWINGS SHOWING UNDERGROUND PIPING LAYOUT AND ALL FIRE APPURTENANCES. PERMIT FOR INSTALLATION OF PRIVATE FIRE HYDRANT(S) MUST BE ISSUED BY FIRE PLANS EXAMINER PRIOR TO INSTALLATION OF SAID HYDRANT(S).
- FIRE HYDRANTS SHALL BE NO MORE THAN 300' FROM A BUILDING OR HOUSE ALONG AN APPROVED APPARATUS ACCESS ROAD, AS MEASURED BY AN APPROVED ROUTE AROUND THE BUILDING OR HOUSE. (ENFORCED AT TIME OF BUILDING PLAN SUBMITTAL)
- FOR FIRE APPARATUS LOCATIONS, 150 FEET TO ALL PORTIONS OF THE EXTERIOR WALL OF THE FIRST FLOOR OF THE BUILDING FROM THE APPARATUS ROAD SURFACE, IS REQUIRED PER THE CURRENT NCFPC.
- APPARATUS ACCESS ROADS SHALL BE DESIGNED AND MAINTAINED TO SUPPORT 80,000 LBS., WITH A POINT LOAD OF 75 PSI, AND SHALL BE SURFACED TO PROVIDE ALL WEATHER DRIVING CAPABILITIES, AS REQUIRED BY THE CURRENT NCFPC. DESIGN MUST BE SEALED BY AN ENGINEER SHOWING CALCULATIONS AND ROAD CONSTRUCTION DETAILS.
- 12. FIRE FLOW ANALYSIS MUST BE PROVIDED AT TIME OF BUILDING PERMITS PER THE CURRENT NCFPC. THIS IS REQUIRED SO THAT VERIFICATION OF THE MINIMUM FIRE FLOW DOES EXIST FROM THE EXISTING/NEW HYDRANTS FOR THE NEW BUILDING TO SUPPLY THE FIREFIGHTING EFFORTS.
- LANDSCAPING AND HARDSCAPING LAYOUT MUST BE ARRANGED TO ALLOW CLEAR VISIBILITY OF ALL FIRE EQUIPMENT UPON APPROACH, WITH READY ACCESS PROVIDED THERETO.
- ABOVE-GROUND UTILITIES TO BE SCREENED.
- A UTILITY MAINLINE CONSTRUCTION PERMIT IS REQUIRED PRIOR TO INSTALLATION OF EACH UTILITY. ALL UTILITIES SHALL SUBMIT PLAN DRAWINGS AND APPLICATIONS TO THE CITY ENGINEERING DIVISION.
- SANITARY SEWER SERVICES SHALL BE 1.0% MINIMUM SLOPE.
- SHOULD PARCEL SUB-DIVIDE, AN EASEMENT ON WATER SERVICE AND FIRE HYDRANT MAIN WILL BE REQUIRED.

CITY OF WILMINGTON NOTES

- CONTRACTOR SHALL MAINTAIN AN ALL-WEATHER ACCESS FOR EMERGENCY VEHICLES AT ALL TIMES DURING CONSTRUCTION.
- NEW HYDRANTS MUST BE BROUGHT INTO SERVICE PRIOR TO COMBUSTIBLE MATERIALS DELIVERED TO THE JOB SITE.
- A HYDRANT MUST BE WITHIN 150' OF THE FDC (MEASURED AS THE TRUCK DRIVES FOR PRACTICAL USE).
- FDC MUST BE WITHIN 40' OF FIRE APPARATUS PLACEMENT.
- LANDSCAPING OR PARKING CANNOT BLOCK OR IMPEDE FDC'S OR FIRE HYDRANTS. A 3-FOOT CLEAR SPACE SHALL ALWAYS BE MAINTAINED AROUND THE CIRCUMFERENCE OF HYDRANTS AND FDC'S.
- ADDITIONAL FIRE PROTECTION AND/OR ACCESSIBILITY REQUIREMENTS MAY BE REQUIRED DUE TO ANY SPECIAL CIRCUMSTANCES CONCERNING THE PROJECT.
- PRIVATE UNDERGROUND FIRE LINES REQUIRE A SEPARATE UNDERGROUND FIRE LINE PERMIT FROM THE WILMINGTON FIRE AND LIFE SAFETY DIVISION 910-343-0696.
- CONTRACTOR SHALL SUBMIT A RADIO SIGNAL STRENGTH STUDY FOR ALL MULTI-STORY COMMERCIAL BUILDINGS AND ALL SINGLE-STORY COMMERCIAL BUILDINGS EXCEEDING 7,500 SQ/FT THAT DEMONSTATES THAT EXISTING EMERGENCY RESPONDER RADIO SIGNAL LEVELS MEET THE REQUIRMENTS OF SECTION 510 OF THE 2018 NC FIRE CODE.
- ALL ISOLATION VALVES WITHIN THE "HOT BOX" AND BETWEEN THE "HOT BOX" AND THE RISER ROOM, MUST BE ELECTRICALLY SUPERVISED.
- FIRE HYDRANTS TO BE INSTALLED PER CITY OF WILMINGTON ORDINANCE AND CFPUA STANDARDS.
- WHERE APPLICABLE, TREE PROTECTION FENCE IS THE LIMITS OF DISTURBANCE.



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FAMILY MEDICAL CLINIC -

GREENFIELD

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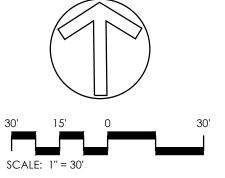
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UTILITY PLAN



MID:KU5414-U1Y-UU4-UUU DB:005321 PG:002498 ZONE: CS COASTAL MINI STORAGE OF LAND USE: COMMERCIAL CAPE FEAR LLC PID:R05414-019-002-000 DB:006462 PG:002335 ZONE: CS LAND USE: COMMERCIAL TC 27.78 TC 28.42 BC 27.92 FG 27.71 FG 27.61 TW 26.33 BC 26.84 TC 28.65 ⊢EG 26.88 -----HOPE BAPTIST CHURCH FOR ALL NATIONS PID:R05414-020-001-000 DB:4829 PG:325 ZONE: UMX LAND USE: CHURCH 1507 GREENFIELD LLC PID:R05415-012-001-000 DB:006242 PG:002642 ZONE: UMX TC 25.87 LAND USE: MEDICAL LAB S FG 23.44 刀 - FG 23.46 FG 21.85 FG 23.12 FG 23.25 ∕−EG 24.68 ⊱EG 24.65 TC 23.85 BC 23.35 - FG 24.88 FG 25.00 -- FG 24.73 ⊢EG 24.06 - FG 24.78 √ EG 24.01 FG 24.78 -FG 24.88 FFE: 25.00 FG 24.88 FG 25.00 TC 24.83 FG 24.87 FG 24.75 ¬ - FG 24.97 FG 24.86 FG 24.81/ ₩EG 23.83 FG 25.96 10' FRONT SETBACK — FG 25.86 WILMINGTON HOUSING AUTHORITY PID:R05418-005-001-000 DB:006137 PG:001528 ZONE: MD-17 LAND USE: RESIDENTIAL

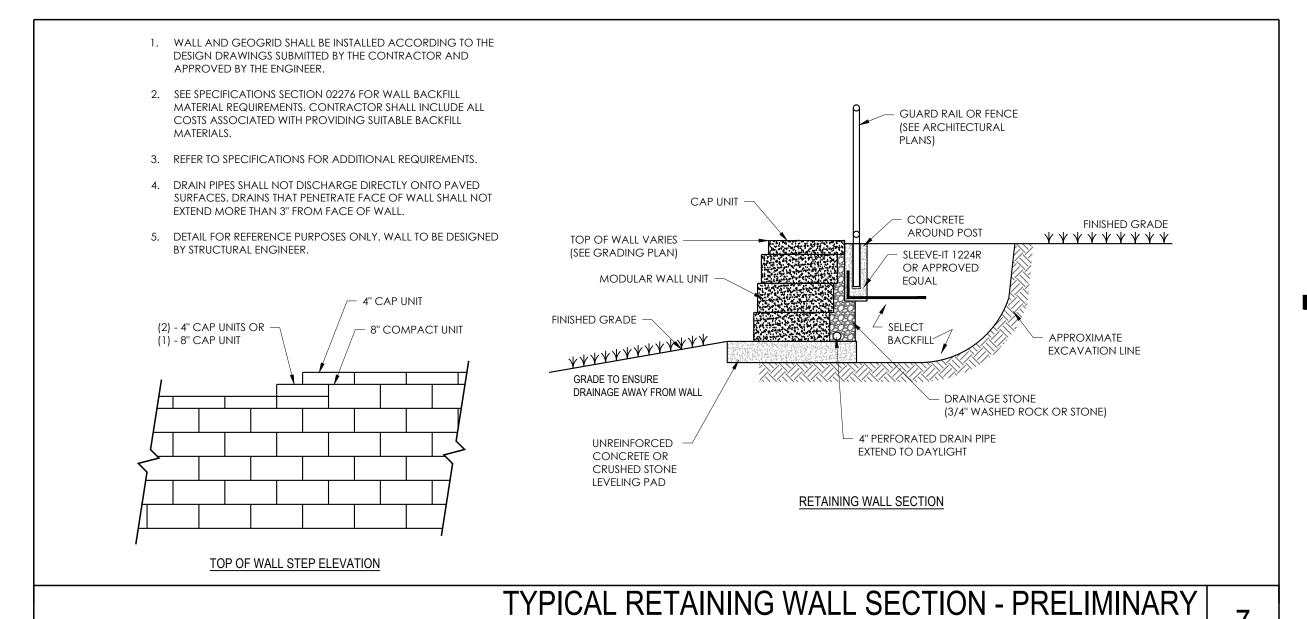
GRADING PLAN

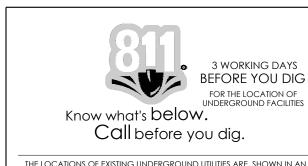
Scale: 1" = 30'

GRADING NOTES

CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING UTILITIES BEFORE BEGINNING CONSTRUCTION.

- THE CONTRACTOR SHALL HIRE AN INDEPENDENT GEOTECHNICAL ENGINEER, LICENSED IN NORTH CAROLINA, TO PROVIDE THE FOLLOWING SERVICES (CRITICAL GEOTECHNICAL ENGINEERING ITEMS OF CONSTRUCTION MONITORING THAT REQUIRE SPECIAL INSPECTION):
- EXAMINATION OF FOUNDATION SUBGRADE CONDITIONS
- SUPERVISION OF SUBGRADE PREPARATION SUPERVISION OF EXCAVATION AND BACKFILL PLACEMENT AND COMPACTION
- SUPERVISION OF BEDDING, SUBGRADE AND BACKFILL CONSTRUCTION
- FILL AND PAVEMENT MATERIALS TESTING
- SUPERVISION OF PAVEMENT CONSTRUCTION • ALL TESTING NECESSARY TO ASSURE COMPLIANCE OF IN-PLACE MATERIALS.
- CONTRACTOR SHALL BLEND NEW EARTHWORK SMOOTHLY TO TRANSITION BACK TO EXISTING GRADE, WITH NO SHARP OR ABRUPT CHANGES.
- ALL FILL TO BE COMPACTED TO 95% DRY DENSITY (STANDARD PROCTOR) UNDER PAVEMENT.
- THE PROPOSED CONTOURS SHOWN ARE FINISHED ELEVATIONS. REFER TO SITE DETAILS TO ESTABLISH CORRECT SUB-BASE ELEVATIONS TO BE COMPLETED UNDER THIS CONTRACT.
- CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE SO THAT RUNOFF WILL FLOW BY GRAVITY AWAY FROM BUILDING(S) AND ACROSS NEW PAVEMENT AND/OR LANDSCAPE AREAS TO NEW OR EXISTING STORM DRAIN INLETS, SWALES, DITCHES OR OVERLAND SHEET FLOW.
- 10. TURF SHALL BE ESTABLISHED IN ALL DISTURBED AREAS AND AREAS LEFT UNPAVED AND WITHOUT GRAVEL IN ACCORDANCE WITH THE SPECIFICATIONS AND LANDSCAPE PLANS.
- 11. ALL SLOPES DRAINING TO SCM SHALL BE STABILIZED PER THE NORTH CAROLINA STATE EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL.
- 12. AT THE START OF GRADING INVOLVING THE LOWERING OF THE EXISTING GRADE AROUND A TREE OR STRIPPING OF TOPSOIL, A CLEAN, SHARP, VERTICAL CUT SHALL BE MADE AT THE EDGE OF THE TREE SAVE AREA AT THE SAME TIME AS OTHER EROSION CONTROL MEASURES ARE INSTALLED. TREE PROTECTION FENCING SHALL BE INSTALLED ON THE SIDE OF THIS CUT FARTHEST AWAY FROM THE TREE TRUNK.
- NO STORAGE OF MATERIALS, DUMPING OF WASTE MATERIALS, FILL, OR PARKING OF EQUIPMENT SHALL BE ALLOWED WITHIN THE ROOT PROTECTION ZONE, AND NO TRESPASSING SHALL BE ALLOWED WITHIN THE BOUNDARY OF THE ROOT PROTECTION ZONE.
- 14. WHERE APPLICABLE, TREE PROTECTION FENCE IS THE LIMITS OF DISTURBANCE.





SCALE: NTS

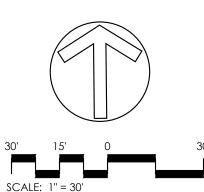
APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

OF ANY NEARBY STRUCTURES, OR OF ANY OTHER PERSONS.

CONSTRUCTION SITE SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR NEITHER THE OWNER NOR THE ENGINEER SHALL BE EXPECTED TO ASSUME ANY RESPONSIBILITY FOR SAFETY OF THE WORK, OF PERSONS ENGAGED IN THE WORK,

GRADING LEGEND

EXISTING CONTOURS PROPOSED CONTOURS EG=25.00 EXISTING GRADE SPOT ELEVATION FG=25.00 PROPOSED FINISH GRADE SPOT ELEVATION TC=25.00 TOP OF CURB SPOT ELEVATION BC=25.00 BOTTOM OF CURB SPOT ELEVATION TW=25.00 TOP OF WALL SPOT ELEVATION BW=25.00 BOTTOM OF WALL SPOT ELEVATION FFE=25.00 PROPOSED FINISH FLOOR ELEVATION



ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL CITY OF WILMINGTON AND NCDOT STANDARDS AND SPECIFICATIONS

ARCHITECTURE■ PLANNING■ INTERIORS

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NOVANT HEALTH FAMILY MEDICAL CLINIC -

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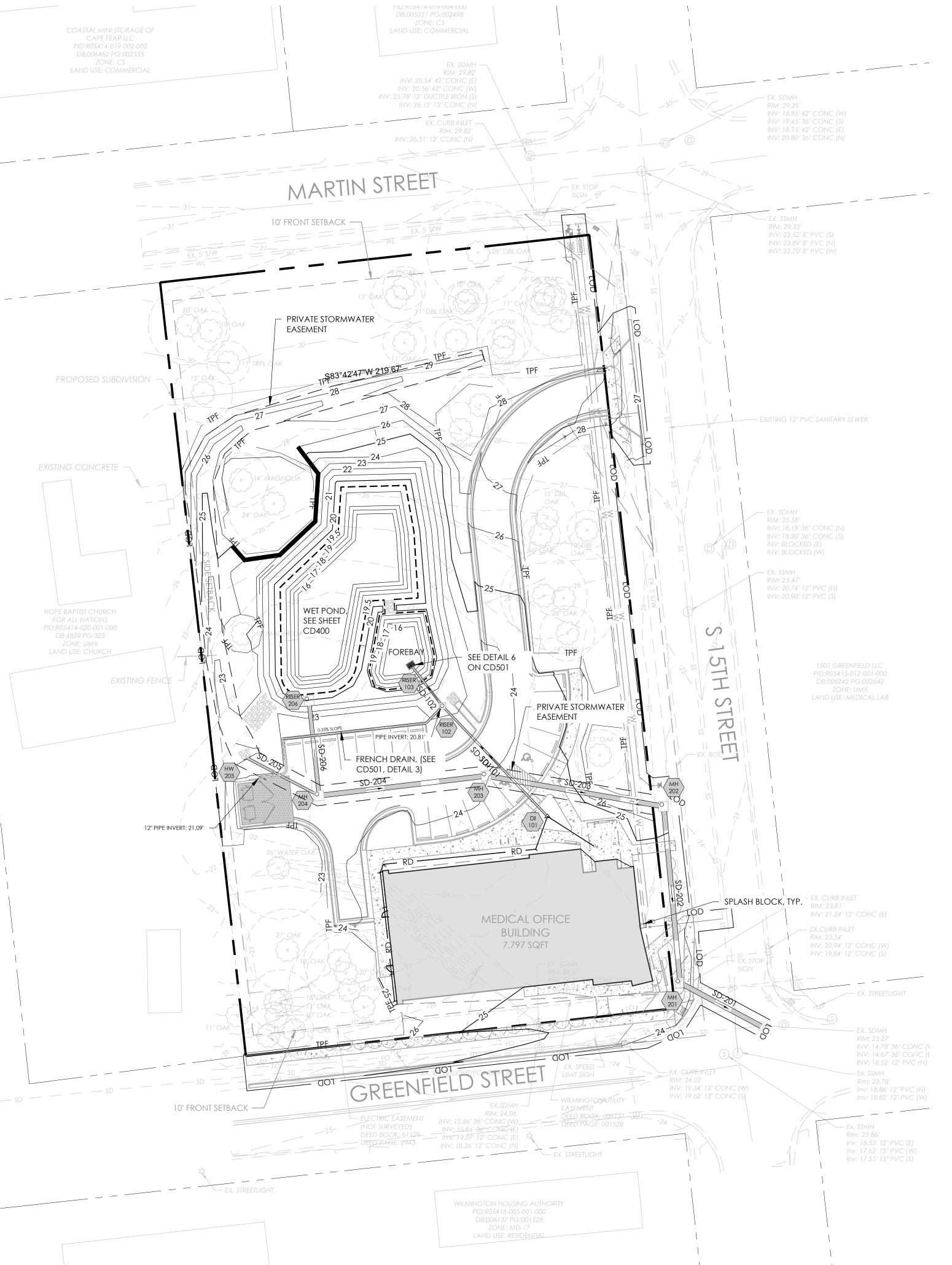
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GRADING PLAN

L. DICKSON

01/12/2023 J. ADRIATICO PROJECT NUMBER 21-025



STORM DRAINAGE PLAN

Scale: 1" = 30'

STORM DRAINAGE (SD) PIPE TABLE					
PIPE NAME	SIZE	MATERIAL	LENGTH	SLOPE	
SD-101	12"	HDPE N-12 O-RING	77.5 LF	0.25%	
SD-102	12"	HDPE O-RING	24.9 LF	0.25%	
SD-201	30"	HDPE	46.7 LF	0.50%	
SD-202	30"	HDPE	87.0 LF	0.50%	
SD-203	30"	HDPE	90.1 LF	0.50%	
SD-204	30"	HDPE	82.1 LF	0.50%	
SD-205	15"	HDPE	41.4 LF	4.45%	
SD-206	24"	HDPE	48.6 LF	0.51%	

1	RM DRAINAGE (SD RUCTURE TABLE	
ID NO.	DETAILS	
101 DI	RIM = 24.00 INV OUT = 21.00 (SD P-10	
102 RISER	RIM = 22.76 INV IN = 20.81 (SD P-10 INV OUT = 20.81 (SD P-10	
103 RISER	RIM = 22.30 INV IN = 20.75 (SD P-102	
201 MH	RIM = 24.42 INV IN = 14.90 (SD P-202 INV OUT = 14.90 (SD P-20	
202 MH	RIM = 25.50 INV IN = 15.34 (SD P-203 INV OUT = 15.34 (SD P-20	
203 MH	RIM = 23.95 INV IN = 15.79 (SD P-204 INV OUT = 15.79 (SD P-20	
204 MH	RIM = 23.33 INV IN = 19.00 (SD P-205 INV IN = 16.25 (SD P-205 INV OUT = 16.20 (SD P-205	
205 HW	RIM = 22.34 INV OUT = 20.84 (SD P-20	
206 RISER	RIM = 22.00 INV OUT = 16.50 (SD P-20	

STORMWATER NOTES

- AT A MINIMUM, THE STORMWATER DESIGN DETAILS FOR THIS PROJECT SHALL BE GOVERNED BY THE MINIMUM STANDARDS OF THE MOST RECENT EDITION OF THE CITY OF WILMINGTON COMPREHENSIVE STORMWATER ORDINANCE DESIGN GUIDELINES, IN EFFECT THE DATE CONSTRUCTION DRAWINGS ARE FIRST RECEIVED FOR REVIEW BY THE CITY OF WILMINGTON.
- 2. FINAL DESIGN CALCULATIONS FOR THE STORMWATER CONTROL MEASURE(S) (SCM[S]) REQUIRE THE USE OF STORAGE INDICATION ROUTING METHODOLOGY SUCH AS TR-20 OR HEC-1 MODELS. FOR EACH SCM, AS APPLICABLE, STAGE-STORAGE RELATIONSHIP AND INFLOW AND OUTFLOW HYDROGRAPHS ARE REQUIRED. ALL TABULATED DATA INCLUDING CALCULATIONS SHOWING THE LIMITING DISCHARGE, WHETHER ORIFICE, WEIR, BARREL, OR OUTLET CONTROL, AS APPROPRIATE IS REQUIRED. HYDROCAD, HYDRAFLOW HYDROGRAPHS, AND PONDPACK ARE COMMONLY USED AND RECOGNIZED SOFTWARE PROGRAMS WHICH INCORPORATE ROUTING METHODOLOGY ACCEPTED BY THE CITY.
- 3. STORMWATER CONTROL MEASURE(S) (SCM[S]) PERMIT FEE(S) AND EITHER A PAYMENT INTO THE STORMWATER REPLACEMENT FUND OR THE PROVISION OF AN ALTERNATE SECURITY ARE REQUIRED FOR ALL SCM(S) ASSOCIATED WITH THIS DEVELOPMENT. CONSTRUCTION OF THE DEVELOPMENT IS NOT ALLOWED TO COMMENCE UNTIL THESE ITEMS ARE PROVIDED IN ACCORDANCE WITH CITY STORMWATER STANDARDS OR IN ACCORDANCE WITH WRITTEN THE DESIGNER SHALL SUBMIT A SEALED ENGINEER'S CONSTRUCTION COST ESTIMATE FOR EVERY SCM PROPOSED IN THE DEVELOPMENT PRIOR TO APPROVAL OF THE CONSTRUCTION DRAWINGS IF A FINANCIAL GUARANTEE IN THE FORM OF PAYMENT INTO THE STORMWATER REPLACEMENT FUND
- 4. AN AS-BUILT CERTIFICATION FOR THE STORMWATER CONTROL MEASURE(S) (SCM[S]), PROVIDED BY THE CERTIFYING ENGINEER OR LANDSCAPE ARCHITECT, IS REQUIRED. THE AS-BUILT CERTIFICATION SHALL BE SUBMITTED IN ACCORDANCE WITH CITY OF WILMINGTON SCM AS-BUILT PROGRAM, REFER TO SECTION 18-752 OF THE CITY OF WILMINGTON CODE OF ORDINANCES, AS-BUILT CERTIFICATION REQUIREMENTS FOR SCMS IN THE CITY OF WILMINGTON DESIGN GUIDELINES. THE SCM AS-BUILT CERTIFICATION(S) SHALL BE APPROVED BY THE STORMWATER DEVELOPMENT REVIEW SECTION PRIOR TO ISSUANCE OF ANY FINAL CERTIFICATES OF OCCUPANCY/COMPLIANCE FOR DEVELOPMENT.
- 5. STORMWATER CONTROL MEASURE(S) (SCM[S]) DESIGN CALCULATIONS WILL NOT BE REVIEWED OR APPROVED WITH THE SITE PLAN/PRELIMINARY PLAT SUBMITTAL. ALL SCM DESIGNS WILL BE REVIEWED AND APPROVED DURING THE CONSTRUCTION DRAWING SUBMITTAL PROCESS. IF, AT THE TIME OF CONSTRUCTION DRAWING SUBMITTAL, IT IS FOUND THAT THE PROPOSED SCM(S) IS UNDERSIZED, NOT PROPERLY ACCESSIBLE, OR OTHERWISE INSUFFICIENT OR UNSUITABLE FOR THE SITE, IT IS THE RESPONSIBILITY OF THE APPLICANT TO INSURE THAT THE APPLICABLE STORMWATER ORDINANCE REQUIREMENTS ARE MET. A REVISED SITE PLAN OR PRELIMINARY PLAT MAY BE REQUIRED IF THE ORIGINALLY PROPOSED SCM(S) ARE FOUND INSUFFICIENT, NOT PROPERLY ACCESSIBLE, OR UNSUITABLE AND ALTERNATIVE SCM(S) WITH ASSOCIATED EASEMENTS ARE REQUIRED.
- 6. THE DEVELOPER/CONTRACTOR SHALL SCHEDULE A PRECONSTRUCTION MEETING WITH THE STORMWATER DEVELOPMENT REVIEW SECTION PRIOR TO COMMENCING WORK ON ANY STORMWATER CONTROL MEASURE (SCM). IF THE SCM WILL BE CONSTRUCTED INITIALLY AS A SEDIMENTATION AND EROSION CONTROL (S&EC) DEVICE, TO BE CONVERTED TO A PERMANENT SCM AT A LATER TIME, THE PRECONSTRUCTION MEETING SHOULD BE SCHEDULED PRIOR TO CONSTRUCTION OF THE S&EC DEVICE. CALL _ REQUIRED MEETING A MINIMUM OF THREE BUSINESS DAYS PRIOR TO THE DESIRED MEETING DATE. THIS IS IN ADDITION TO OTHER PRECONSTRUCTION MEETING REQUIREMENTS FOR EROSION CONTROL, ENGINEERING INSPECTIONS, ETC.
- 7. TO RECEIVE SITE PLAN/PRELIMINARY PLAT APPROVAL FOR DEVELOPMENTS OTHER THAN SINGLE FAMILY DETACHED, TOWNHOME AND DUPLEX RESIDENTIAL DEVELOPMENTS THAT ARE MAKING USE OF NUTRIENT BANKS OR NCEEP, THE APPROVAL OF THE SITE PLAN/PRELIMINARY PLAT IS CONTINGENT UPON THE PURCHASE OF NUTRIENT CREDITS. IF A REVISED SITE PLAN/PRELIMINARY PLAT IS SUBMITTED FOR THIS DEVELOPMENT, THE REVISED SITE PLAN/PRELIMINARY PLAT WILL BE SUBJECT TO ANY ORDINANCES IN PLACE AT THE TIME OF THE REVISED SITE PLAN/PRELIMINARY PLAT SUBMISSION. PRIOR TO THE APPROVAL OF THE SITE PLAN/PRELIMINARY PLAT, A LETTER/RECEIPT SHOWING THE PURCHASE OF THE NUTRIENT CREDITS FOR THIS DEVELOPMENT AND A COPY OF THE NUTRIENT BANK LEDGER IF APPLICABLE, SHOWING THE TOTAL NUTRIENT CREDITS AVAILABLE MINUS ANY AND ALL DEDUCTIONS, IS TO BE PROVIDED TO THE STORMWATER DEVELOPMENT REVIEW SECTION.
- 8. WHERE APPLICABLE, TREE PROTECTION FENCE IS THE LIMITS OF DISTURBANCE.



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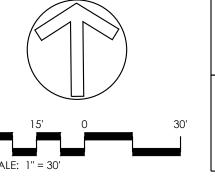
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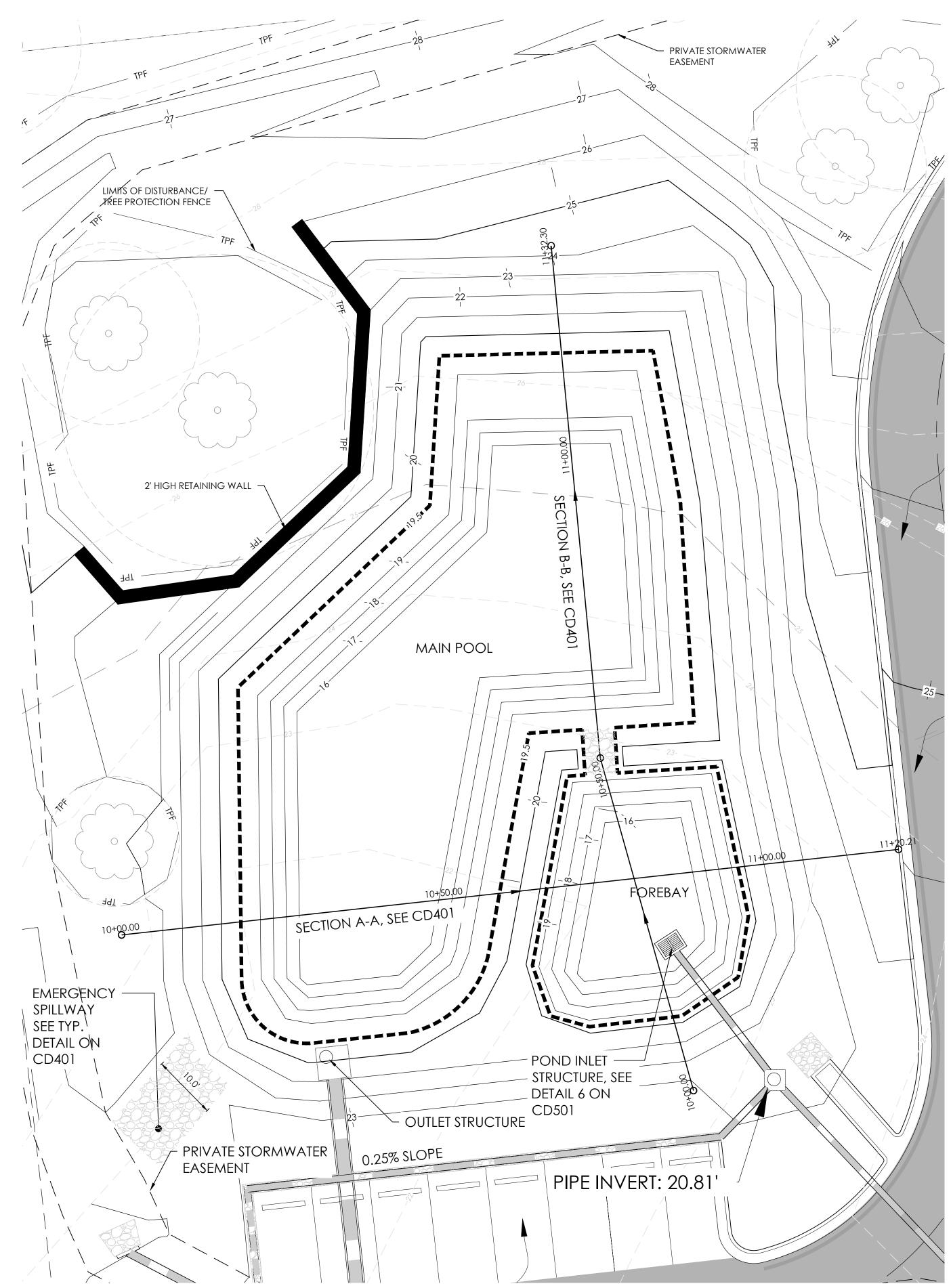
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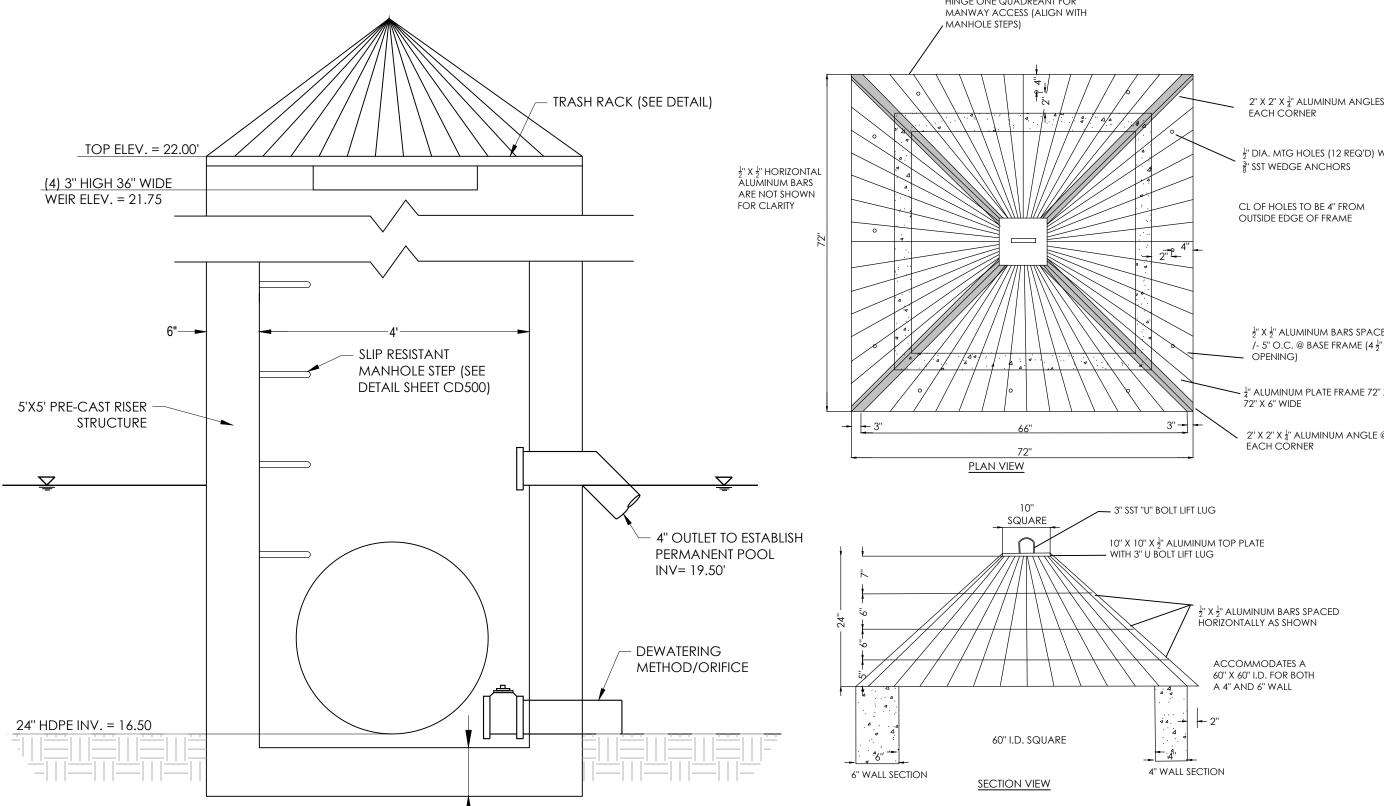
STORM DRAINAGE PLAN

PROJECT NUMBER





WET POND PLAN



WET POND OUTLET CONTROL STRUCTURE

└ 6" FLOOR

THICKNESS

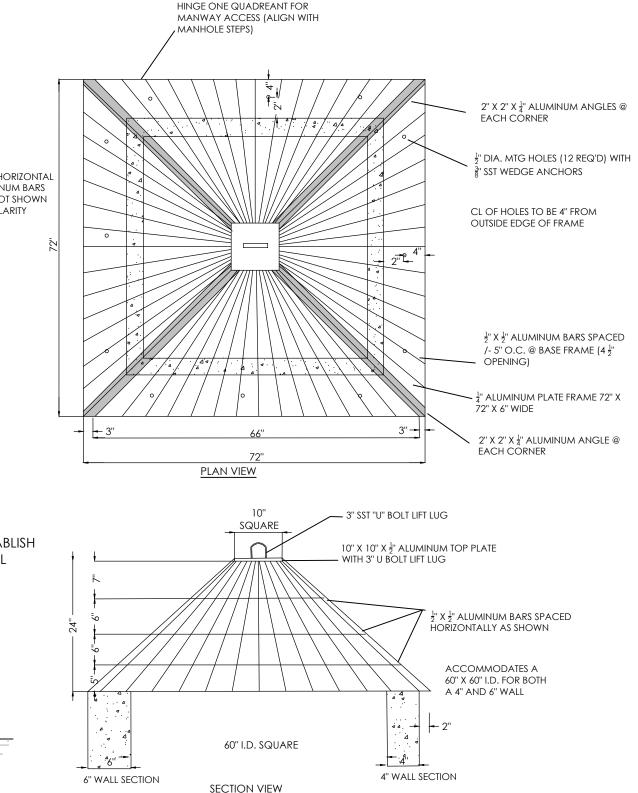
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STORMWATER CONTROL MEASURE (SCM) NOTES

- PRIOR TO BEGINNING CONSTRUCTION, ANY DISCREPANCIES IN THE PLANS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE DESIGN ENGINEER FOR RESOLUTION.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH CITY OF WILMINGTON AND THE STATE OF NORTH CAROLINA DIVISION OF WATER RESOURCES STORMWATER BMP MANUAL, STANDARDS AND SPECIFICATIONS.
- LANDSCAPING PLANTINGS SHOWN ON THE LANDSCAPE PLAN SHALL BE INSTALLED DURING FALL SEASON OR EARLY SPRING IF POSSIBLE FOR MAXIMUM PLANT SURVIVABILITY. CONTRACTOR TO ORDER PLANTS WELL IN ADVANCE OF PLANTING TO ENSURE AVAILABILITY / COORDINATION OF ALTERNATES; PLANTS MUST BE PURCHASED FROM A LOCAL NURSERY.
- THE CONTRACTOR SHALL WARRANTY ALL PLANTED MATERIALS FOR A PERIOD OF 2 YEARS FROM DATE OF INSTALLATION. AT THE END OF THE FIRST YEAR AND AT THE END OF THE SECOND YEAR, THE CONTRACTOR SHALL REPLACE ALL PLANTS WHICH DID NOT SURVIVE. ANY HEALTHY PLANTS DAMAGED DURING PLANT REPLACEMENT SHALL ALSO BE REPLACED.
- SEE LANDSCAPE PLANS FOR SOD SPECIFICATIONS, AND SITE DRAINAGE SCHEDULES FOR ADDITIONAL STRUCTURE TOPS AND PIPE INVERT
- PRINCIPAL SPILLWAY PIPE SHALL HAVE A MINIMUM PIPE STRENGTH CONFORMING TO AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM) C-76, CLASS III STANDARDS.
- THE CONTRACTOR SHALL EMPLOY A GEOTECHNICAL ENGINEER TO TEST ALL EMBANKMENTS AND FILL PLACEMENT FOR PROPER COMPACTION. PROPER COMPACTION SHALL BE PER THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS OR THESE PLANS, WHICHEVER IS MORE STRINGENT EMBANKMENTS FOR BMP'S SHALL BE PLACED IN 6 INCH LOOSE LAYERS AND SHALL BE COMPACTED TO A DENSITY OF NO LESS THAN 95% OF THE STANDARD PROCTOR MAXIMUM DENSITY AT A MOISTURE CONTENT OF + OR - TWO PERCENTAGE POINTS OF THE OPTIMUM MOISTURE CONTENT IN ACCORDANCE WITH ASTM D698. THE CONTRACTOR SHALL TAKE PHOTOGRAPHS OF THE OUTLET STRUCTURE AT ALL PHASES OF INSTALLATION AND SHALL RETAIN WITH GEOTECHNICAL TESTING DATA. THE CONTRACTOR SHALL ALSO RETAIN ALL SHIPPING RECORDS AND SPECIFICATIONS FOR THE OUTLET STRUCTURE MATERIALS AND STRUCTURES. ALL OF THE ABOVE DATA MAY BE REQUIRED AS PART OF THE MUNICIPALITY AS-BUILT PROCESS AND SHALL BE MADE AVAILABLE TO THE ENGINEER UPON REQUEST. THE CONTRACTOR AND OWNER SHALL HAVE DOCUMENTATION OF THESE TESTS AVAILABLE UPON REQUEST.
- TOLERANCES FOR FINAL GRADES SHALL BE WITHIN +/- 0.10 FEET. AN AS-BUILT SURVEY OF THE WET POND WILL BE REQUIRED, THEREFORE, STRICT ADHERENCE TO THE GRADING ON THIS PLAN AND THE TOLERANCES SPECIFIED HEREON SHALL BE REQUIRED PRIOR TO CERTIFICATION BY THE ENGINEER. UPON COMPLETION OF THE FINAL GRADING (PRIOR TO PLACEMENT OF ANY PLANT MATERIAL) THE CONTRACTOR SHALL CONTACT THE SURVEYOR TO SURVEY THE AS-BUILT WET POND. THE CONTRACTOR SHALL NOTIFY THE ENGINEER THAT THE WET POND FACILITY HAS BEEN COMPLETED AND THE ENGINEER SHALL EVALUATE THE AS-BUILT SURVEY DATA FOR COMPLIANCE WITH THESE DRAWINGS. IF THE WET POND FACILITY IS FOUND TO BE OUT OF COMPLIANCE WITH THESE DRAWINGS, THE CONTRACTOR SHALL MAKE ADJUSTMENTS AS NECESSARY TO BRING THE WET POND FACILITY INTO COMPLIANCE WITH THESE DRAWINGS. THE COST OF ANY ADDITIONAL SURVEYING FOR ENGINEERING EVALUATION REQUIRED RESULTING FROM INCOMPLETE OR INCORRECT GRADING OF THE WET POND FACILITY SHALL BE THE RESPONSIBILITY OF THE
- EROSION AND SEDIMENT CONTROL MEASURES MUST BE INSTALLED AND INSPECTION APPROVED PRIOR TO BEGINNING GENERAL SITE WORK, INCLUDING GENERAL CLEARING, GRUBBING, AND GRADING.
- 10. BOTH FOREBAY AND EMERGENCY SPILLWAY SLOPES SHALL HAVE 18" THICK CLASS 'A' STONE.
- 11. BEGINNING OF FOREBAY SHOULD BE 4" DEEPER THAN END OF FOREBAY.

STORMWATER CONTROL MEASURE CONSTRUCTION SEQUENCE

- UNDER NO CIRCUMSTANCES SHALL THE WET POND BE FINALIZED AND PLANTED BEFORE THE COMPLETION OF CONSTRUCTION AND STABILIZATION OF ALL AREAS WHICH DRAIN TO IT. NOTIFY THE ENGINEER 48 HOURS PRIOR TO BEGINNING CONSTRUCTION ON THE WET POND AND SCHEDULE A PRECONSTRUCTION CONFERENCE WITH THE ENGINEER TO REVIEW DETAILS OF THE CONSTRUCTION REQUIREMENTS.
- IF THE WET POND HAS BEEN PREVIOUSLY ROUGH GRADED, REMOVE AND DISPOSE OF SEDIMENT DEPOSITS WITHIN
- STRIP TOPSOIL AND DISPOSE OF OFFSITE, OR STOCKPILE FOR SUBSEQUENT SCREENING AND PLACEMENT ELSEWHERE ONSITE. ONSITE STOCKPILE SHALL BE ENCLOSED BY SILT FENCE.
- EXCAVATE AND ROUGH GRADE THE WET POND AREAS TO THE DESIGN DIMENSIONS. ALL FILL PLACEMENT SHALL BE IN COMPLIANCE WITH THE SPECIFICATION IN THE CONSTRUCTION NOTES ON THIS SHEET.
- 5. INSTALL CLAY LINER AND ARMORED SECTIONS OF FOREBAY WEIRS.
- 6. INSTALL OUTLET STRUCTURE SYSTEM IN THE BOTTOM OF THE EXCAVATION AS SHOWN ON THE PLANS.
- PROVIDE LANDSCAPING IN COMPLIANCE WITH THE WET POND PLANTING PLAN. IF TIMING IS SUCH THAT PLANTINGS WOULD OCCUR IN SUMMER MONTHS, COORDINATE WITH THE ENGINEER AND NCDEQ REGARDING ALTERNATE PLANTINGS FOR MAXIMUM SURVIVABILITY OF PLANTS.
- STABILIZE THE SLOPES DRAINING TO THE WET POND AREA WITH GRASS SOD, OR SURROUND THE AREA WITH SILT FENCE TO PREVENT SEDIMENT FROM CONTAMINATING THE SOIL MIXTURE. SEED ALL ADDITIONAL DISTURBED AREAS PER THE SEEDING SCHEDULE SHOWN ON THE LANDSCAPE PLAN.
- CALL NCDEQ EROSION CONTROL INSPECTOR FOR APPROVAL OF EROSION CONTROL STABILIZATION.
- 10. AFTER COMPLETING ALL PLANTINGS AND SEEDINGS, FERTILIZE ENTIRE WET POND AS RECOMMENDED BY USDA SOIL TESTING RECOMMENDATIONS. FERTILIZING SHALL OCCUR ONLY DURING THE FIRST YEAR. THEREAFTER NO FERTILIZING
- 11. CONTRACTOR SHALL WATER NEW PLANT MATERIAL PLANTED IN THE WET POND DAILY UNTIL COMPLETION OF ALL OTHER SITE RELATED CONSTRUCTION HAS BEEN COMPLETED. AFTER THE FULL SCOPE OF THE CONTRACTOR'S WORK IS COMPLETED, IT SHALL BE THE OWNER'S RESPONSIBILITY TO WATER PLANTS DAILY UNTIL PLANTS HAVE BECOME WELL ESTABLISHED AND WATERING IS NO LONGER NECESSARY.
- 12. FILL POND AND MONITOR SURFACE ELEVATION FOR 48 HOURS. WATER SURFACE SHALL REMAIN WITHIN ONE INCH OF PERMANENT POOL ELEVATION. IF WATER LEVEL DROPS ONE INCH, NOTIFY ENGINEER AND INVESTIGATE OUTLET BARREL, OUTLET STRUCTURE, AND EMBANKMENT FOR LEAKS OR DEFECTS. MAKE REPAIRS IF REQUIRED AND FILL POND AND REPEAT WATER EVALUATION MONITORING. IF WATER LEVEL REMAINS WITHIN TOLERANCE, NOTIFY ENGINEER AND PERFORM DETAILS TOPOGRAPHIC SURVEY.
- 13. CONTACT CITY OF WILMINGTON STORMWATER ENGINEER TO OBTAIN FINAL BMP INSPECTION AND APPROVAL.



TRASHRACK 5'X5' RISER

NOT TO SCALE

6" OR 8" THICK WALLS"

2. TRASH RACK TO BE POWDER-COATED BLACK

1. TRASH RACK DETAIL BASED ON POMONA PIPE PRODUCTS "STANDARD ALUMINUM BAR & ANGLE PEAKED ROOF

TRASH RACK WITH ONE QUADRANT HINGED FOR MANWAY ACCESS TO FIT 60" X 60" I.D. CONCRETE RISER WITH

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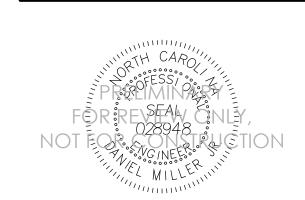
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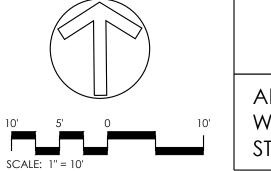
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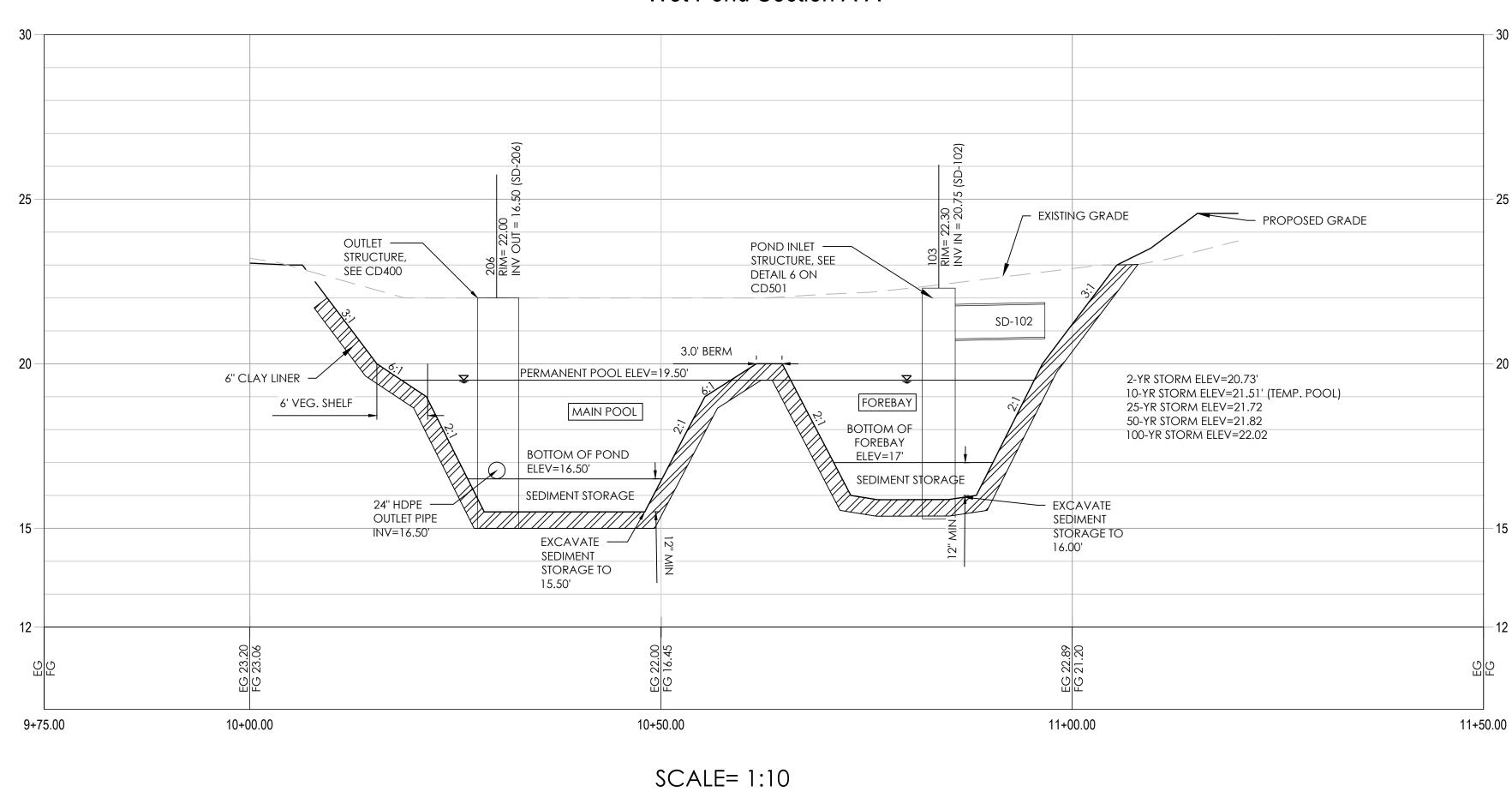
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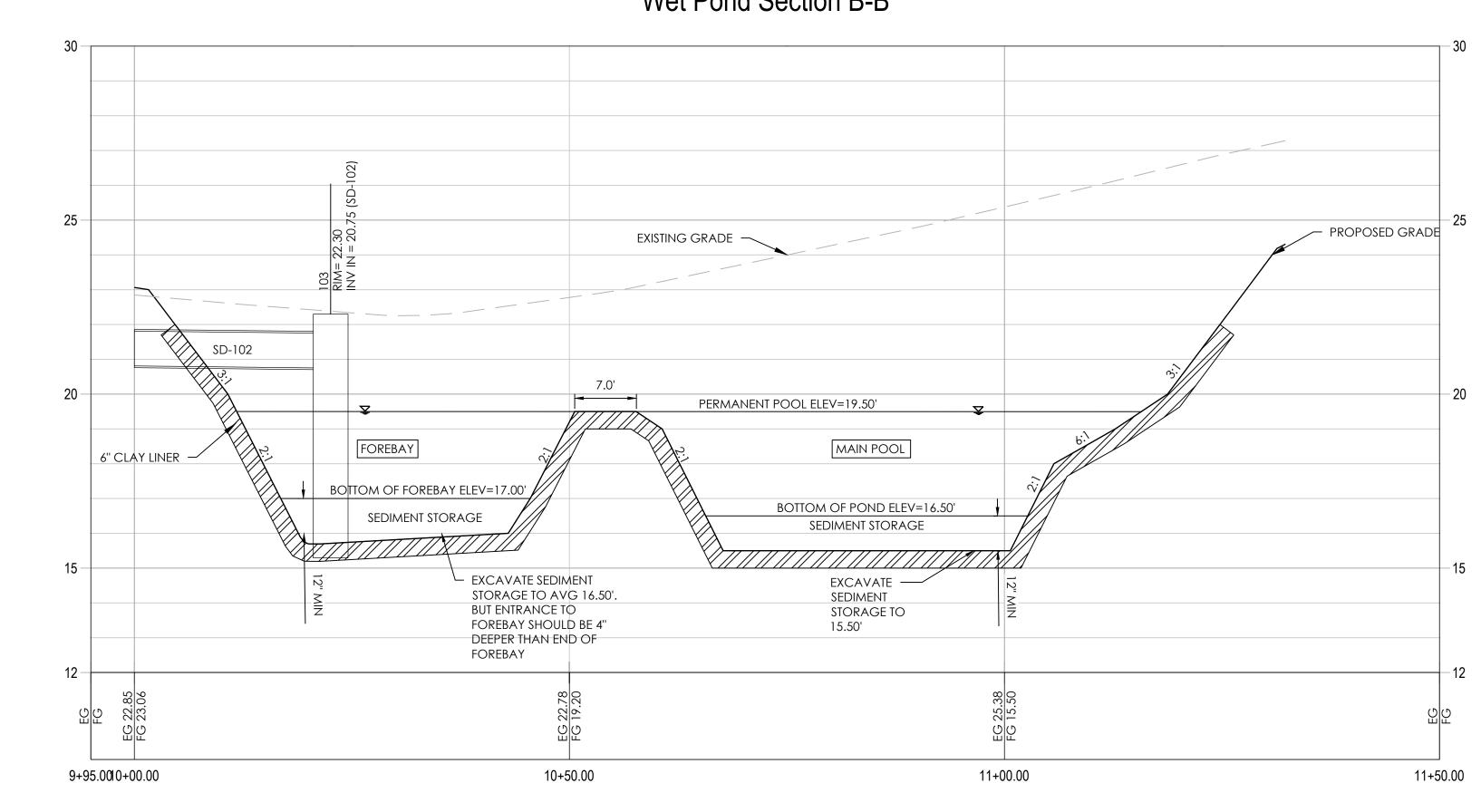
STORM DRAINAGE **ENLARGEMENT**



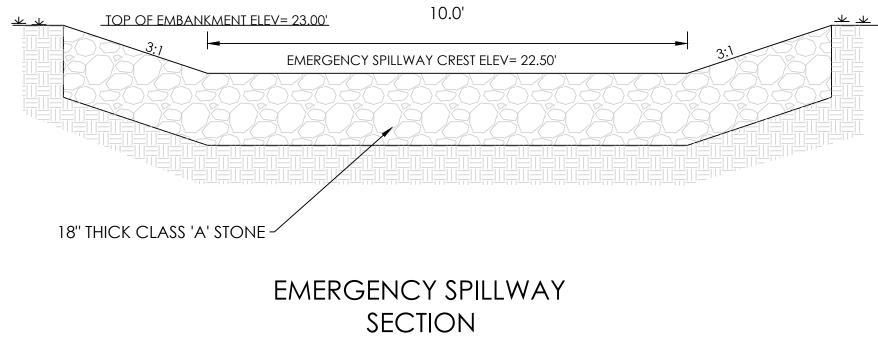
Wet Pond Section A-A



Wet Pond Section B-B



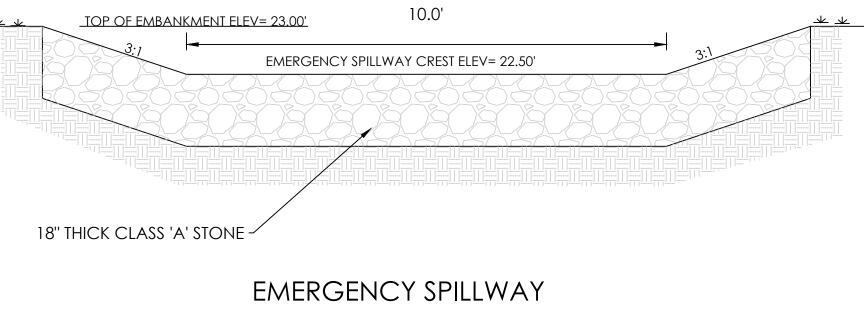
SCALE= 1:10



SCALE = 1:2

18" THICK CLASS 'A' STONE -

TOE OF SLOPE



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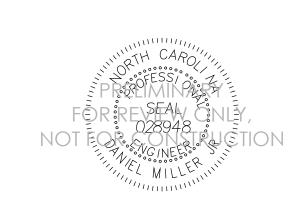
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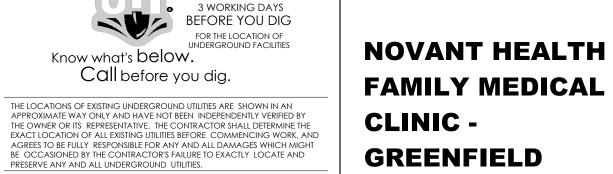
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EMBANKMENT SECTION EMERGENCY SPILLWAY SECTION



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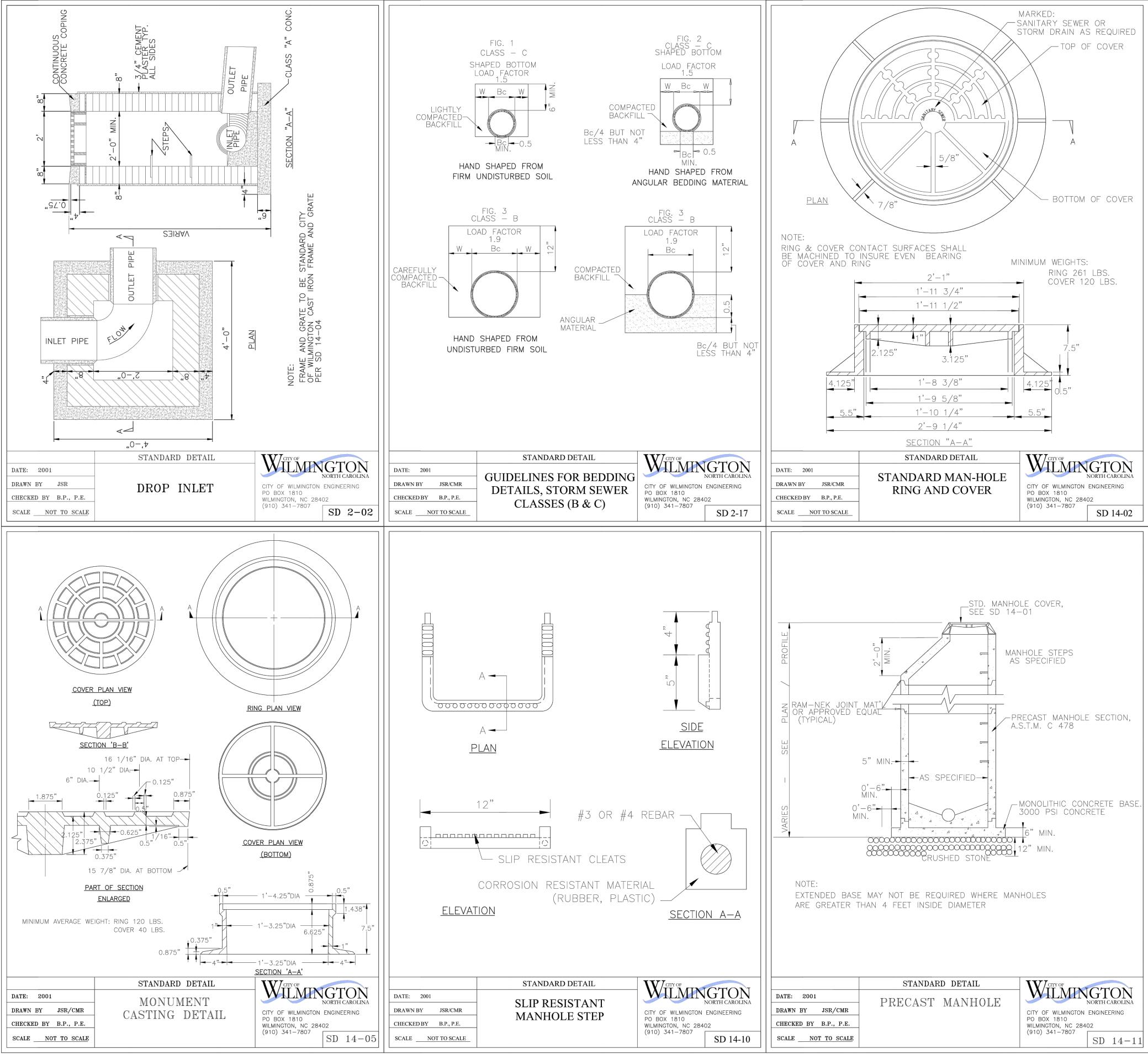
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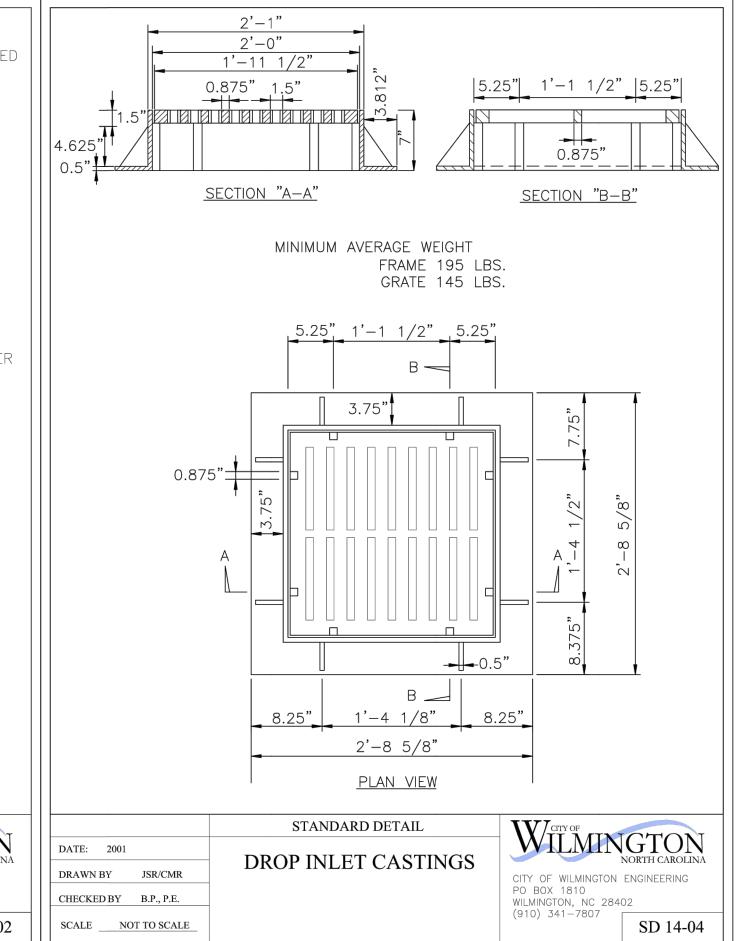
WET POND DETAIL

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL CITY OF WILMINGTON AND NCDOT STANDARDS AND SPECIFICATIONS

TOP OF EMBANKMENT= 23.00'

EMERGENCY SPILLWAY CREST ELEV= 22.50'







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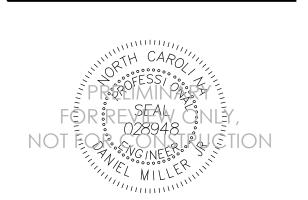
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FAMILY MEDICAL CLINIC -**GREENFIELD**

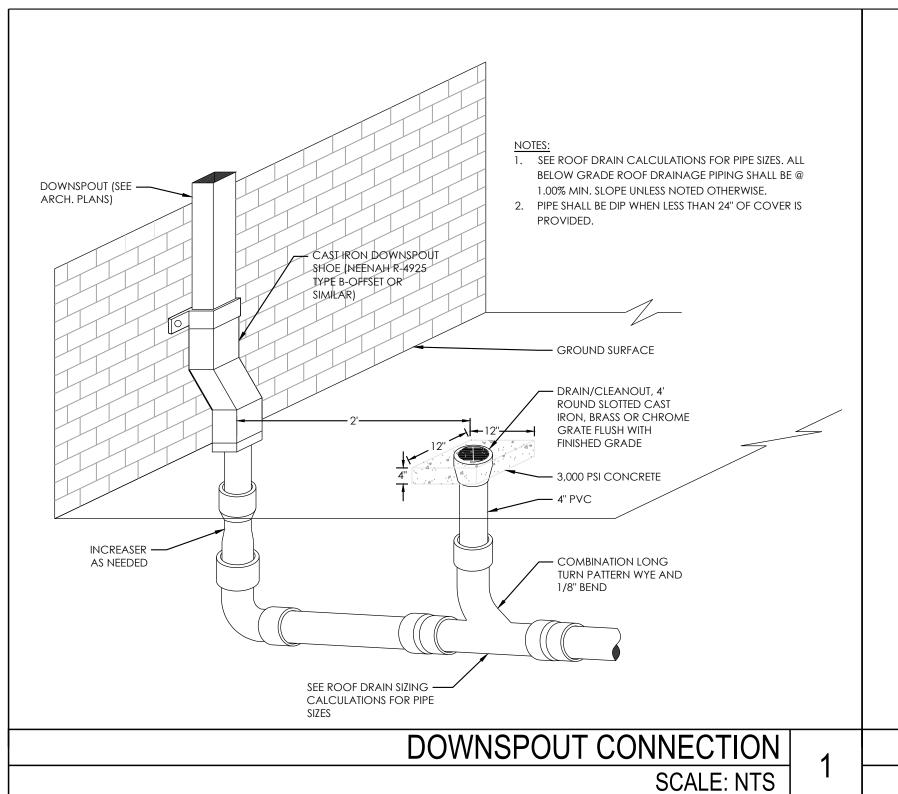
NOVANT HEALTH

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No.	Description	Date

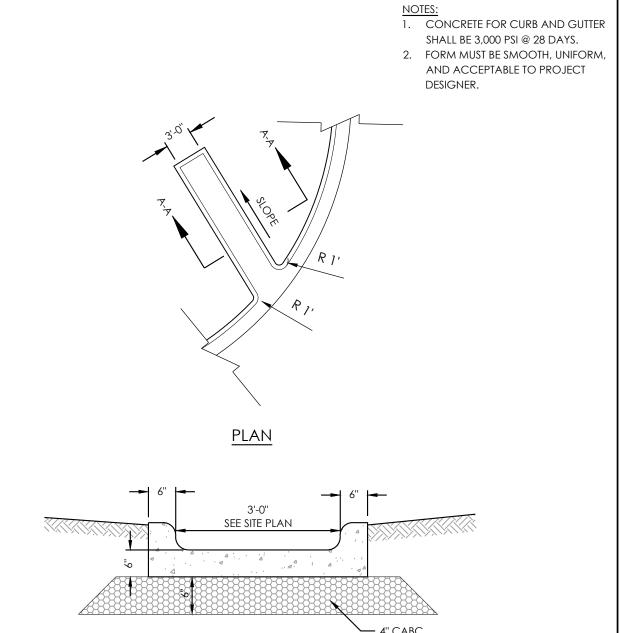
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STORM DRAINAGE **DETAILS**



PAVEMENT (SLOPED TO - WASHED STONE — LAWN AREA SEE CS501 FOR (SLOPED TO DRAIN) STANDARD ASPHALT PAVING DETAIL - 12" PERFORATED DRAIN PIPE WRAPPED WITH FILTER CLOTH AND SLOPED @ 0.25% FOR DRAINAGE

FRENCH DRAIN



SECTION A-A

- FINISHED GRADE FINAL BACKFILL (NATIVE SOIL) INITIAL BACKFILL (CLASS I, II OR III BACKFILL) SPRING LINE HAUNCHING (#67 WASHED STONE) BEDDING $\frac{2^{"}}{}$ (#67 WASHED STONE) MINIMUM SIDE CLEARANCE 12" O.D. OF PIPE 12" MAXIMUM SIDE CLEARANCE NOTES:

1. FOR TRENCHES REQUIRING SHORING AND BRACING, DIMENSIONS SHALL BE TAKEN FROM THE INSIDE FACE OF THE SHORING AND BRACING. 2. NO ROCKS OR BOULDERS 4" OR LARGER TO BE USED IN INITIAL

BACKFILL. 3. ALL BACKFILL MATERIAL SHALL BE SUITABLE NATIVE MATERIAL.

4. BACKFILL SHALL BE TAMPED IN 6" LAYERS IN TRAFFIC AREAS, 12" IN NON-TRAFFIC AREAS.

5. IF ROCK IS ENCOUNTERED AT BOTTOM OF TRENCH, OVER EXCAVATE ROCK A MIN. OF 6" AND BACK FILL WITH NO. 67 STONE TO THE

BOTTOM OF PIPE.

SCALE: NTS

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William W.

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NOVANT HEALTH FAMILY MEDICAL CLINIC -**GREENFIELD**

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No.	Description	Date

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STORM DRAINAGE DETAILS

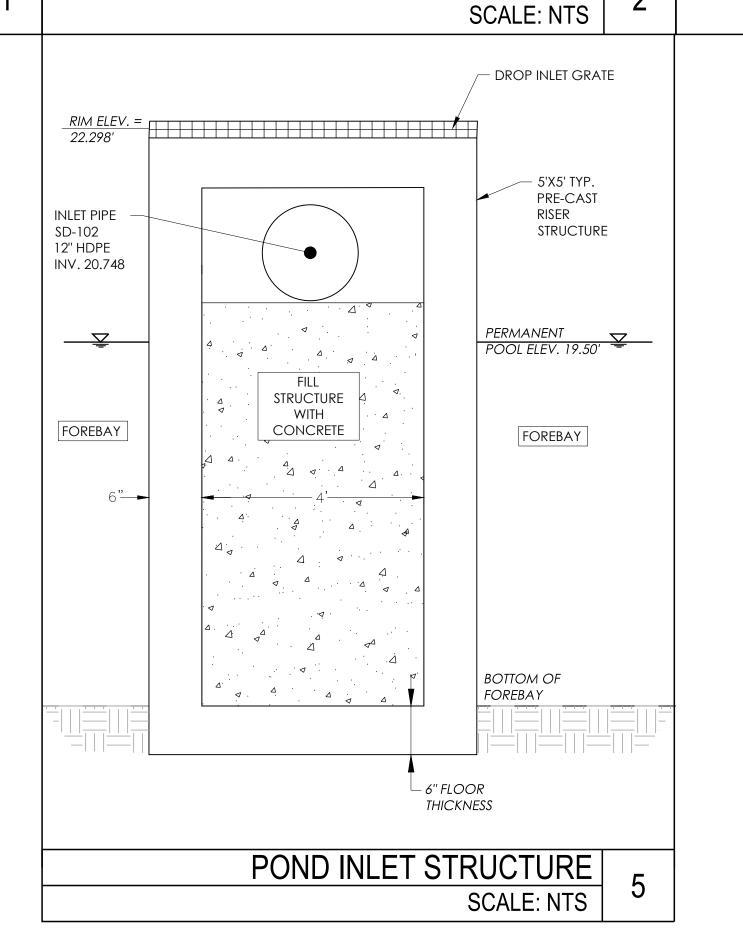
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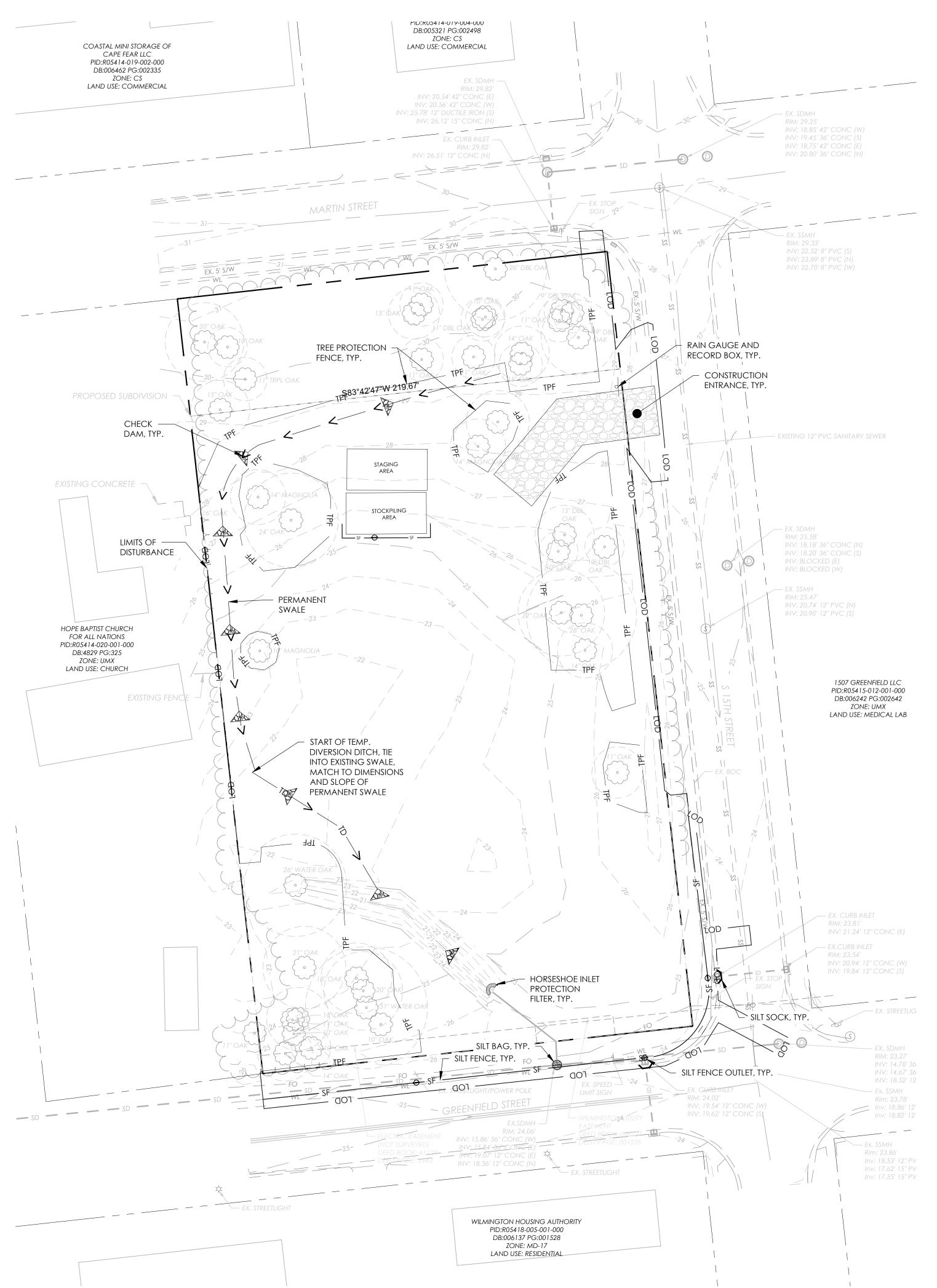
J. ADRIATICO PROJECT NUMBER L. DICKSON

Roof Drain and Leader Calculations PROVIDED REQUIRED ROOF DRAIN INFLOW (SF) PIPE SIZE (IN) PIPE SIZE (IN) PIPE LABEL P1 4058 P2 2029 6087 Р3 2029 Ρ4 8116 P5 8116 P6 NOTE: Assumptions per NC Plumbing Code Table 1106.3

- 5 in/hr rainfall

- 4" round downspout from building





EROSION & SEDIMENT CONTROL CONSTRUCTION SEQUENCE

- EROSION AND SEDIMENT CONTROL PHASE 1
- 1. SCHEDULE A PRE-CONSTRUCTION EROSION CONTROL CONFERENCE WITH THE NEW HANOVER COUNTY ENVIRONMENTAL CONSULTANT.
- 2. OBTAIN AN EROSION AND SEDIMENT CONTROL/LAND DISTURBANCE /GRADING PERMIT. A HARD COPY OF THE EROSION & SEDIMENT CONTROL PLANS, AND ALL SELF-INSPECTION RECORDS MUST BE KEPT ON SITE, PREFERABLY IN A PERMITS BOX, AND ACCESSIBLE AT ALL TIMES FOR INSPECTION. LAND DISTURBANCE ACTIVITIES MAY NOT BEGIN UNTIL LAND DISTURBANCE PERMIT IS OBTAINED.
- 3. INSTALL TREE PROTECTION/SILT FENCE AROUND ALL TREE CONSERVATION AREAS AND SILT FENCE OUTLETS PER THE APPROVED PLANS.
- 4. THE CONTRACTOR SHALL POST THE SEDIMENTATION CERTIFICATE OF APPROVAL AT THE CONSTRUCTION ENTRANCE AND MAINTAIN A COPY OF THE EROSION AND SEDIMENT CONTROL PERMIT IN THE PERMITS BOX. ANY CHANGES TO PROJECT DESIGN THAT RESULT IN ADDITIONAL DISTURBANCE OR CHANGE THE DRAINAGE PATTERNS SHALL BE SUBMITTED TO NEW HANOVER COUNTY EROSION CONTROL FOR PERMIT MODIFICATION.
- 5. EXISTING UTILITIES SHOWN IN APPROXIMATE MANNER ONLY. CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF EXISTING UTILITIES PRIOR TO DEMOLITION, CONSTRUCTION, OR LAND DISTURBANCE ACTIVITIES BEGIN.
- 6. CONTACT THE NEW HANOVER COUNTY EROSION CONTROL AT LEAST 48 HOURS PRIOR TO COMMENCING LAND-DISTURBING ACTIVITY. THE CONTACT NUMBER IS (910) 798-7432.
- 7. NO MASS CLEARING, DEMOLITION, CONSTRUCTION, OR LAND DISTURBANCE ACTIVITIES SHALL BEGIN UNTIL ALL APPLICABLE EROSION AND SEDIMENT CONTROL MEASURES HAVE BEEN INSTALLED IN LOCATIONS AS SHOWN ON THE CONTRACT DRAWINGS AND INSPECTION APPROVAL HAS BEEN PROVIDED. IF CLEARING IS REQUIRED FOR INSTALLATION OF A GIVEN MEASURE, ALL OTHER MEASURES SHALL BE INSTALLED FIRST, THEN NECESSARY LAND DISTURBANCE ACTIVITIES REQUIRED FOR INSTALLATION OF THE GIVEN MEASURE MAY BE PROCEED AFTER THE PERMIT IS ISSUED.
- 8. INSTALL RAIN GAUGE ON SITE TO FACILITATE RAINFALL MONITORING. THE CONTRACTOR SHALL MAINTAIN THESE RECORDS IN THE PERMIT BOX FOR AUDIT BY REGULATORY AGENCIES.
- 9. MARK LIMITS OF DISTURBANCE BY STAKING OUT.
- 10. UPON TREE PROTECTIONS FENCE INSTALLATION APPROVAL (BY NEW HANOVER COUNTY), INSTALL GRAVEL CONSTRUCTION PAD, SILT FENCE OR OTHER PERIMETER PROTECTION MEASURES AS SHOWN ON THE APPROVED PLAN. CLEAR ONLY AS NECESSARY TO INSTALL THESE DEVICES.
- 11. SCHEDULE AN ONSITE INSPECTION BY THE NEW HANOVER COUNTY ENVIRONMENTAL CONSULTANT TO OBTAIN A LAND DISTURBANCE PERMIT. ONCE APPROVED BY THE NEW HANOVER COUNTY ENVIRONMENTAL CONSULTANT, BEGIN DEMOLITION, CLEARING, AND ROUGH GRADING.
- 12. ALL DIVERSIONS/SWALES, WHETHER TEMPORARY OR PERMANENT, WILL BE LINED TO THE TOP OF THE BANK. PERMANENT DIVERSION DITCH TO BE INSTALLED AND MAINTAINED DURING ENTIRETY OF CONSTRUCTION TO THE SPECIFIED DIMENSIONS SEEN ON SHEET CE 503. TIE TEMPORARY DIVERSION DITCH INTO EXISTING SWALE IN CURRENT CONDITIONS.
- 13. CONTRACTOR SHALL INSTALL SILT FENCE AND SILT FENCE OUTLETS ON DOWNSTREAM SIDES OF ANY STOCKPILE MATERIAL. DISPOSAL OF ANY EXCESS MATERIAL(S) TO BE TAKEN OFF SITE, SHALL BE DONE SO IN A MANNER THAT MEETS THE CONDITIONS OF LOCAL, STATE, AND FEDERAL REGULATIONS.
- 14. ALL CONSTRUCTION VEHICLES, INCLUDING SUPPLIERS AND SUB-CONTRACTORS, SHALL ENTER AND LEAVE THE SITE ONLY AT THE CONSTRUCTION ENTRANCE. TAKE CARE TO PREVENT SEDIMENT FROM LEAVING THE SITE DURING THE CONSTRUCTION ENTRANCE INSTALLATION. MAINTAIN THE CONSTRUCTION ENTRANCE DAILY TO ENSURE THAT MUD AND SILT WILL NOT BE TRACKED ONTO PAVED SURFACES. IF MUD IS TRACKED ONTO ROAD SURFACES, IT IS TO BE REMOVED PRIOR THE END OF THE WORKDAY OR ANY RAIN EVENT, WHICHEVER IS FIRST.
- 15. CONSTRUCTION ENTRANCE LOCATION AND DIMENSIONS MAY NOT VARY WITHOUT PRIOR APPROVAL FROM THE SEALING PROFESSIONAL AND PERMITTING AUTHORITY.
- 16. THE CONTRACTOR SHALL CONDUCT SELF-INSPECTIONS OF THE EROSION AND SEDIMENT CONTROL MEASURES AND COMPLETE THE FOLLOWING COMBINED SELF-INSPECTION FORM FOUND ON THE NCDEQ WEBSITE. COMPLETE INSPECTION FORMS SHALL BE ALWAYS KEPT ON-SITE AND AVAILABLE FOR INSPECTION. IT IS RECOMMENDED A COPY BE KEPT IN A PERMITS BOX.
- 17. SELF-INSPECTION FOR EROSION AND SEDIMENTATION CONTROL MEASURES ARE TO BE PERFORMED AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF EVERY RAIN EVENT OF GREATER THAN 1 IN. ANY NEEDED REPAIRS SHALL BE MADE IMMEDIATELY TO MAINTAIN MEASURES AS DESIGNED. ALL EROSION & SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED AS SPECIFIED IN THE CONSTRUCTION DETAILS ON THIS PLAN. TAKE IMMEDIATE CORRECTIVE ACTION FOR ANY DEVICE FAILURE.
- 18. STABILIZATION IS REQUIRED WITHIN 14 CALENDAR DAYS OF COMPLETION OF ANY PHASE OF GRADING OR INACTIVITY ON THE SITE.

PHASE 1 EROSION AND SEDIMENT CONTROL NOTES 1. TOTAL LIMITS OF DISTURBANCE: ±66,473 SF / 1.53 AC

- 2. THE INDICATED STAGING AREA IS INTENDED FOR VEHICLES AND NON-ERODIBLE MATERIALS ONLY. NO SOIL, SAND OR OTHER ERODIBLE, FINE GRAINED MATERIAL SHALL BE STORED OUTSIDE OF THE LIMITS OF THE SITE PROTECTED BY EROSION & SEDIMENT CONTROL DEVICES OR MEASURES.
- 3. SOIL AND OTHER MATERIALS SHALL BE ONLY TEMPORARILY STOCKPILES WITHIN THE CONSTRUCTION LIMITS AND PROTECTED BY EROSION AND SEDIMENT CONTROL DEVICES AND MEASURES. STOCKPILES SHALL BE STABILIZED AS NECESSARY, SEE SLOPE & SURFACE STABILIZATION NOTES ON SHEET CE 130.
- 4. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED CONTINUOUSLY AND MAY BE RELOCATED AS NECESSARY TO COMPLETE CONSTRUCTION ACTIVITIES. SEEDED AREAS SHALL BE CHECKED REGULARLY AND SHALL BE WATERED, FERTILIZED, RESEEDED, AND MULCHED AS NECESSARY TO OBTAIN A DENSE STAND OF GRASS.
- 5. IN ADDITION TO THE MEASURES SHOWN ON THE PLANS, THE CONTRACTOR SHALL USE INTERIM SILT FENCES, DIVERSION DITCHES, BERMS, OR OTHER METHODS AS REQUIRED TO DIRECT DRAINAGE AS SHOWN ON THE PLANS AND TO PREVENT SILT AND CONSTRUCTION DEBRIS FROM FLOWING ONTO ADJACENT PROPERTIES. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE STATE AND LOCAL EROSION, CONSERVATION, AND SILTATION ORDINANCES. THE CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES ONLY AFTER FINAL INSPECTION AND APPROVAL FROM A REPRESENTATIVE OF THE PRESIDING JURISDICTION.
- 6. TREE PROTECTION FENCING MUST BE IN PLACE PRIOR TO ANY DEMOLITION, LAND DISTURBANCE, OR ISSUANCE OF A GRADING PERMIT AND SHALL INCLUDE WARNING SIGNS POSTED IN BOTH ENGLISH AND SPANISH, AS FOLLOWS: "NO TREPASSING/TREE PROTECTION AREA / PROHIBIDO ENTRAR/ZONA PROTECTORA, PARA LOS ARBOLES."
- 7. TREE PROTECTION SHALL BE USED AS SHOWN ON THE PLANS TO INDICATE THE LIMITS OF DISTURBANCE AND/OR TO SECURE THE CONSTRUCTION SITE AS NECESSARY.
- 8. REFER TO DETAIL SHEETS CE500-CE504 FOR DETAILS.
- 9. REFER TO SHEET CE130 FOR SEEDING SCHEDULE.



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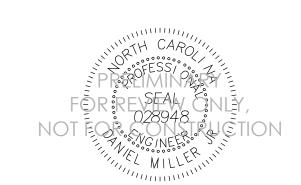
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NOVANT HEALTH
FAMILY MEDICAL
CLINIC GREENFIELD

1423 GREENFIELD STREET, WILMINGTON, NC

No.	Description	Date

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EROSION & SEDIMENT CONTROL-PHASE 1

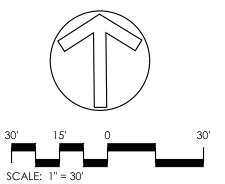
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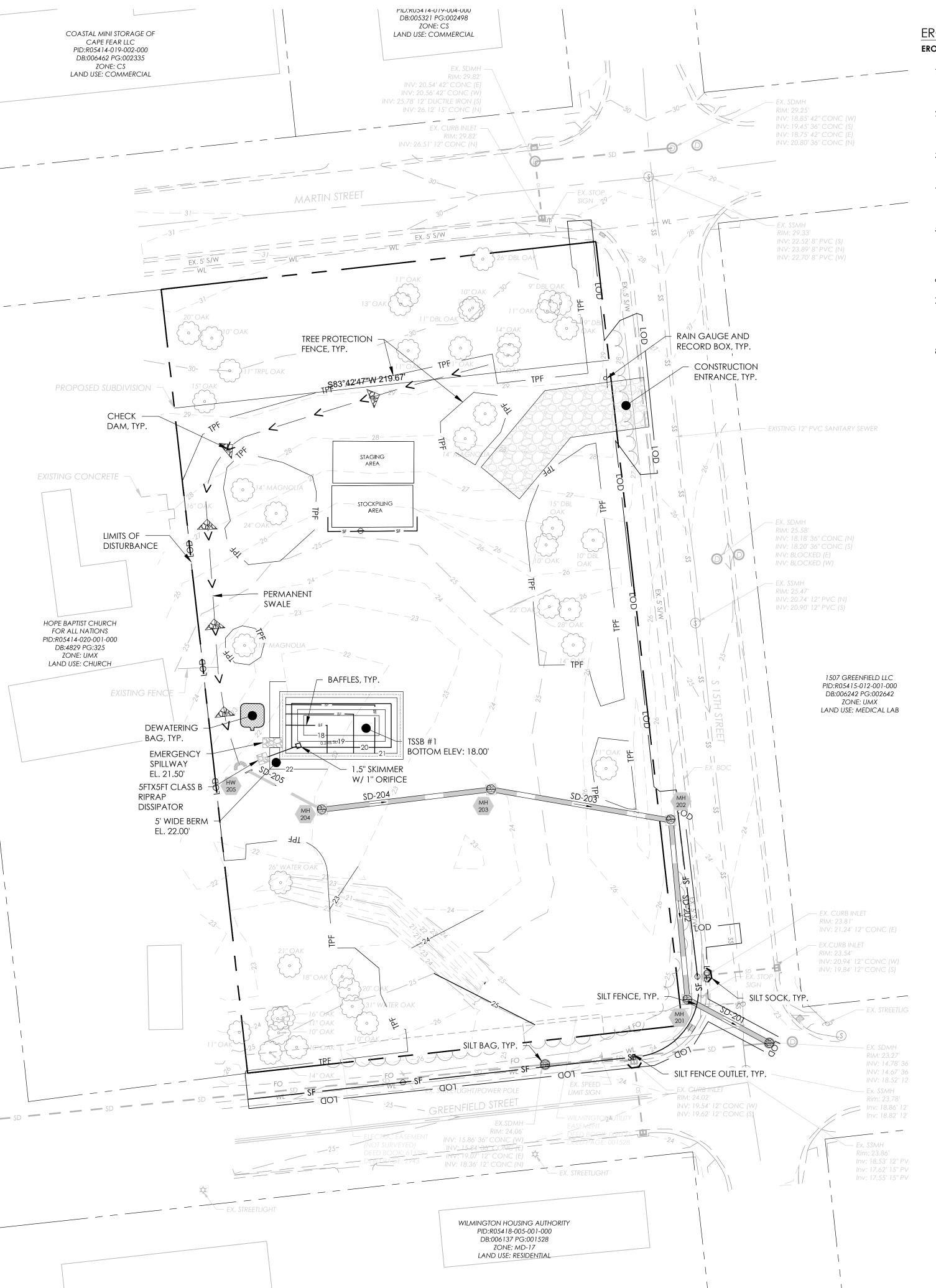
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CHECKED

L. DICKSON
SHEET BY
J. ADRIATICO
PROJECT NUMBER

L. DICKSON
SHEET BY
J. ADRIATICO
PROJECT NUMBER





EROSION & SEDIMENT CONTROL CONSTRUCTION SEQUENCE EROSION AND SEDIMENT CONTROL SEQUENCE - PHASE 2

- CONTRACTOR TO CONDUCT INSPECTION OF THE SEDIMENT AND EROSION CONTROL DEVICES PRIOR TO BEGINNING EACH PHASE AND REPAIR AS NEEDED. RELOCATE / ADD NEW DEVICES AS NEEDED. MAINTAIN DEVICES THROUGHOUT PHASE.
- 2. INSTALL, MAINTAIN, AND ADJUST EROSION & SEDIMENT CONTROL MEASURES AS NEEDED DURING DEMOLITION, CLEARING AND GRUBBING, AND THROUGHOUT THE LIFE OF THE PROJECT AND UNTIL PERMANENT VEGETATION ON THE PROJECT IS ESTABLISHED.
- 3. ANY BARE SOILS BETWEEN DIVERSIONS OR DOWNSTREAM TOE OF SEDIMENT BASINS WILL BE SEEDED, MULCHED, AND TACKED.
- 4. OUTLET PIPES AND STRUCTURES SHOWN ON CE110 TO BE CONSTRUCTED AND PERMANENT DIVERSION DITCH TIED INTO PIPE SYSTEM BEFORE EXISTING ONSITE DITCH IS FILLED. REMOVE TEMPORARY DIVERSION DITCH.
- . TSSB #1 TO BE CONSTRUCTED USING THE CALCULATIONS SEEN ON SHEET CE503. TSSB #1 WILL OUTFLOW TO HW205. TSSB #1 IS TO BE MAINTAINED. CONTRACTOR TO COORDINATE CONVERSION FROM TSSB#1 TO SCM SINCE THERE IS OVERLAP. REMAINING DRAINAGE SYSTEM TO BE INSTALLED.
- 6. THE BUILDINGS AND STRUCTURES WILL BE CONSTRUCTED. THE SITE WORK WILL COMMENCE.
- 7. STABILIZE SITE AS AREAS ARE BROUGHT UP TO FINISH GRADE WITH VEGETATION, PAVING, ETC. STABILIZATION IS REQUIRED WITHIN 14 CALENDAR DAYS OF COMPLETION OF ANY PHASE OF GRADING OR INACTIVITY ON THE SITE. SEED AND MULCH DENUDED AREAS PER GROUND STABILIZATION TIME FRAMES.
- 8. PERIMETER EROSION CONTROL DEVICES TO REMAIN IN PLACE UNTIL ALL CONTRIBUTING DRAINAGE AREAS ARE VEGETATED, PERMANENTLY STABILIZED, AND FINAL STABILIZATION INSPECTION IS APPROVED.

PHASE 2 EROSION AND SEDIMENT CONTROL NOTES 1. TOTAL LIMITS OF DISTURBANCE: ±66,473 SF / 1.53 AC

- 2. THE INDICATED STAGING AREA IS INTENDED FOR VEHICLES AND NON-ERODIBLE MATERIALS ONLY. NO SOIL, SAND OR OTHER ERODIBLE, FINE GRAINED MATERIAL SHALL BE STORED OUTSIDE OF THE LIMITS OF THE SITE PROTECTED BY EROSION & SEDIMENT CONTROL DEVICES OR MEASURES.
- 3. SOIL AND OTHER MATERIALS SHALL BE ONLY TEMPORARILY STOCKPILED WITHIN THE CONSTRUCTION LIMITS AND PROTECTED BY EROSION AND SEDIMENT CONTROL DEVICES AND MEASURES. STOCKPILES SHALL BE STABILIZED AS NECESSARY, SEE SLOPE & SURFACE STABILIZATION NOTES ON SHEET CE130.
- 4. TREE PROTECTION SHALL BE USED AS SHOWN ON THE PLANS TO INDICATE THE LIMITS OF DISTURBANCE AND/OR TO SECURE THE CONSTRUCTION SITE AS NECESSARY.
- 5. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED CONTINUOUSLY AND MAY BE RELOCATED AS NECESSARY TO COMPLETE CONSTRUCTION ACTIVITIES. SEEDED AREAS SHALL BE CHECKED REGULARLY AND SHALL BE WATERED, FERTILIZED, RESEEDED, AND MULCHED AS NECESSARY TO OBTAIN A DENSE STAND OF GRASS.
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- 7. ALL EROSION & SEDIMENT CONTROL FENCING, FINAL INLET PROTECTIONS, PIPE INLET/OUTLET PROTECTIONS AND TREE PROTECTION FENCING SHALL REMAIN IN PLACE UNTIL AFTER FINAL STORMWATER/SITE STABILIZATION INSPECTION AND REMOVAL IS APPROVED.
- 8. CONTRACTOR SHALL PERFORM SELF-INSPECTIONS AFTER EACH PHASE OF THE PROJECT UNTIL AFTER FINAL STORMWATER/SITE STABILIZATION INSPECTION AND THE SITE IS APPROVED AS STABILIZED.
- 9. REFER TO DETAIL SHEETS CE500-CE504 FOR DETAILS.
- 10. REFER TO SHEET CE130 FOR SEEDING SCHEDULE.
- 11. TREE PROTECTION SHALL BE USED AS SHOWN ON THE PLANS TO INDICATE THE LIMITS OF DISTURBANCE AND/OR TO SECURE THE CONSTRUCTION SITE AS NECESSARY.

neighboring concepts

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NOVANT HEALTH FAMILY MEDICAL CLINIC GREENFIELD

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No.	Description	Date

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EROSION & SEDIMENT CONTROL-PHASE 2

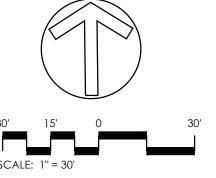
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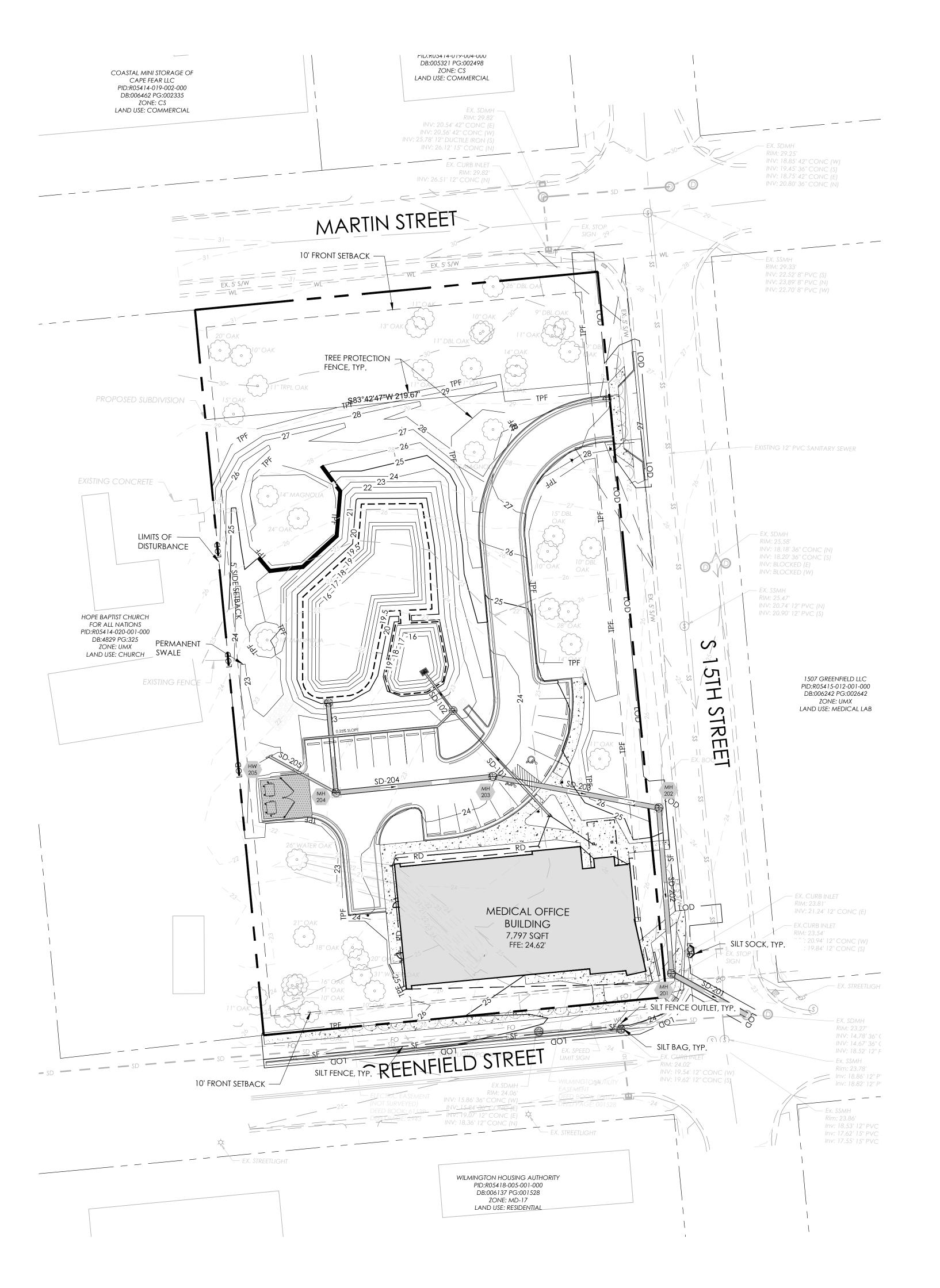
CHECKED

CHECKED

L. DICKSON
SHEET BY
J. ADRIATICO
PROJECT NUMBER

01/12/2





PHASE 3 EROSION AND SEDIMENT CONTROL NOTES 1. TOTAL LIMITS OF DISTURBANCE: ±66,473 SF / 1.53 AC

- 2. ALL EROSION & SEDIMENT CONTROL FENCING, FINAL INLET PROTECTIONS, PIPE INLET/OUTLET PROTECTIONS AND TREE PROTECTION FENCING SHALL REMAIN IN PLACE UNTIL AFTER FINAL STORMWATER/SITE STABILIZATION INSPECTION AND REMOVAL IS APPROVED.
- 3. CONTRACTOR SHALL PERFORM SELF-INSPECTIONS AFTER EACH PHASE OF THE PROJECT UNTIL AFTER FINAL STORMWATER/SITE STABILIZATION INSPECTION AND THE SITE IS APPROVED AS STABILIZED.
- 4. REFER TO DETAIL SHEETS CE500-CE504 FOR DETAILS.
- 5. REFER TO SHEET CE130 FOR SEEDING SCHEDULE.

EROSION & SEDIMENT CONTROL CONSTRUCTION SEQUENCE EROSION AND SEDIMENT CONTROL - PHASE 3

- 1. CONTRACTOR TO CONDUCT INSPECTION OF THE SEDIMENT AND EROSION CONTROL DEVICES PRIOR TO BEGINNING EACH PHASE AND REPAIR AS NEEDED. RELOCATE / ADD NEW DEVICES AS NEEDED. MAINTAIN DEVICES THROUGHOUT PHASE.
- 2. REMOVE TSSB #1 WHEN STORM WATER SCM IS COMPLETELY INSTALLED AND IS READY TO BRING ONLINE. UTILIZE FILTER BAG FOR DEWATERING ACTIVITIES.
- 3. COMPLETE FINAL GRADING AND STABILIZE ADJACENT SLOPES FOR THE ENTIRE SITE.
- 4. PERIMETER EROSION CONTROL DEVICES TO REMAIN IN PLACE UNTIL ALL CONTRIBUTING DRAINAGE AREAS ARE VEGETATED, PERMANENTLY STABILIZED, AND FINAL STABILIZATION INSPECTION IS APPROVED.
- 5. WHEN CONSTRUCTION IS COMPLETE AND ALL AREAS ARE STABILIZED COMPLETELY, SCHEDULE AN INSPECTION BY THE NEW HANOVER COUNTY ENVIRONMENTAL CONSULTANT.
- 6. AFTER THE SITE INSPECTION HAS BEEN COMPLETED AND SITE IS APPROVED, REMOVE TREE PROTECTION AND SILT FENCE, ETC., AND SEED OUT OR STABILIZE ANY RESULTING BARE AREAS. ALL REMAINING PERMANENT EROSION CONTROL DEVICES, SUCH AS VELOCITY DISSIPATERS, SHOULD NOW BE INSTALLED. PROVIDE PERMANENT SEEDING WHERE TEMPORARY MEASURES HAVE BEEN REMOVED AND GROUND COVER IS NOT ADEQUATE.
- 7. WHEN VEGETATION HAS BECOME ESTABLISHED, CALL FOR FINAL SITE INSPECTION BY THE ENVIRONMENTAL CONSULTANT. OBTAIN CERTIFICATE OF COMPLETION.

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Call before you dig.

NOTICE:

CONSTRUCTION SITE SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR NEITHER THE OWNER NOR THE ENGINEER SHALL BE EXPECTED TO ASSUME ANY RESPONSIBILITY FOR SAFETY OF THE WORK, OF PERSONS ENGAGED IN THE WORK, OF ANY NEARBY STRUCTURES, OR OF ANY OTHER PERSONS.

NOVANT HEALTH FAMILY MEDICAL CLINIC -

GREENFIELD

1423 GREENFIELD STREET, WILMINGTON, NC

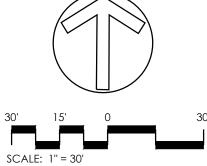
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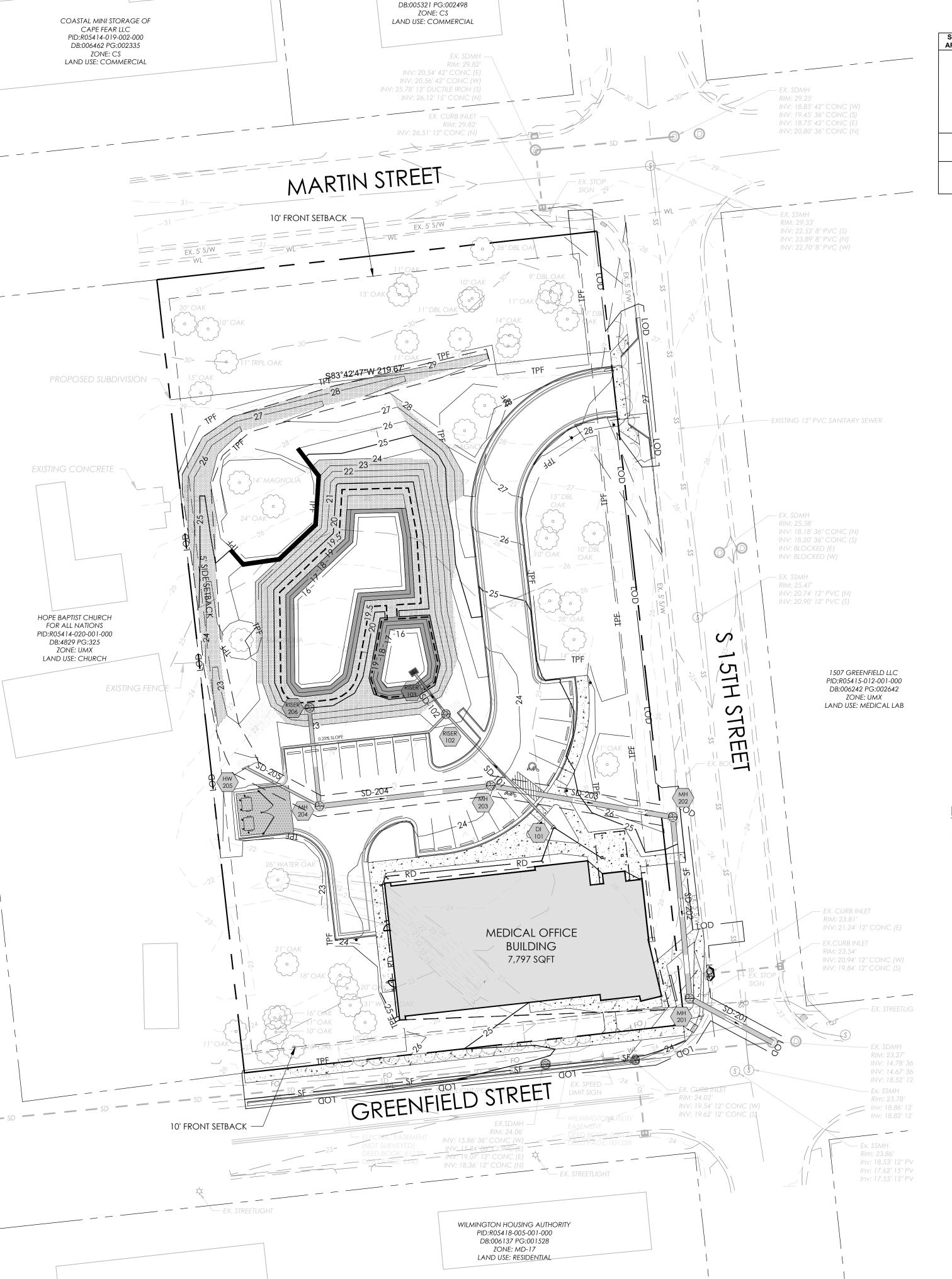
PERMIT SET

EROSION & SEDIMENT CONTROL-PHASE 3

ISSUE DATE

L. DICKSON
SHEET BY
J. ADRIATICO
PROJECT NUMBER





MD:KU54 14-U 19-UU4-UUU

NPDES STABILIZATION SCHEDULE

		1) GROUND STABILIZATION *		
	SITE AREA	SITE AREA DESCRIPTION	STABILIZATION TIME FRAME	STABILIZATION TIME FRAME EXCEPTIONS
		PERIMETER DIKES, SWALES, DITCHES, AND SLOPES	7 DAYS	NONE
	1	 HIGH QUALITY WATER (HQW) ZONES 	7 DAYS	NONE
		SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND AR NOT STEEPER THAN 2:1 14 DAYS ARE ALLOWED
	2	SLOPES 3:1 OR FLATTER	14 DAYS	7-DAYS FOR SLOPES GREATER THAN 50 FEET LENGTH
	3	ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE (EXCEPT FOR PERIMETER AND HQW ZONES)

EXTENSIONS OF TIME MAY BE APPROVED BY THE PERMITTING AUTHORITY BASED ON WEATHER OR OTHER SITE-SPECIFIC CONDITIONS THAT MA COMPLIANCE IMPRACTICABLE." (SECTION II.B(2)(b))

2) BUILDING WASTES HANDLING

NO PAINT OR LIQUID WASTES IN STREAM OR STORM DRAINS DEDICATED AREAS FOR DEMOLITION, CONSTRUCTION, AND STREAMS UNLESS NO REASONABLE ALTERNATIVES AVAILABLE. EARTHEN-MATERIAL STOCKPILES MUST BE LOCATED 50' FROM STORM AVAILABLE.

CONCRETE MATERIALS MUST BE CONTROLLED TO AVOID CONTACT WITH SURFACE WATERS, WETLANDS, OR BUFFERS

B) DISCHARGES TO FEDERALLY-LISTED WATERS

 REQUIREMENTS ARE THE SAME AS IN PREVIOUS PERMIT. THE PERMIT ALLOWS REDUCTION FROM THE 20 ACRE MINIMUM IF THE DIRECTOR OF DWQ DETERMINES THAT OTHER BMP'S PROVIDE

4) INSPECTIONS

SAME WEEKLY INSPECTION REQUIREMENTS

EQUIVALENT PROTECTION.

 SAME RAIN GAUGE & INSPECTIONS AFTER 0.5" RAIN EVENT INSPECTIONS ARE ONLY REQUIRED DURING "NORMAL BUSINESS HOURS INSPECTION REPORTS MUST BE AVAILABLE ON-SITE DURING BUSINESS HOURS UNLESS A SITE-SPECIFIC EXEMPTION IS APPROVED.

 RECORDS MUST BE KEPT FOR 3 YEARS AND AVAILABLE ON REQUEST. ELECTRONICALLY-AVAILABLE RECORDS MAY BE SUBSTITUTED UNDER CERTAIN CONDITIONS.

5) IMPLEMENTATION OF NEW PERMIT CONDITIONS

TO FOLLOW THE PREVIOUSLY-PERMITTED CONDITIONS. COMPLETE APPLICATIONS RECEIVED PRIOR TO AUGUST 3, 2011 CAN FOLLOW CONDITIONS OF APPROVED APPLICATION.

APPLICATIONS RECEIVED AFTER AUGUST 2, 2011 MUST COMPLY WITH NEW PERMIT CONDITIONS.) CONDITIONS IN EROSION & SEDIMENTATION CONTROL

DESIGNATION ON THE PLANS WHERE THE 7 AND 14-DAY GROUND DESIGNATION ON THE PLANS WHERE BASINS THAT COMPLY WITH THE SURFACE-WITHDRAWAL REQUIREMENTS OF THE NPDES PERMIT ARE

SEDIMENT BASINS

OUTLET STRUCTURES MUST WITHDRAW FROM BASIN SURFACE UNLESS DRAINAGE AREA IS LESS THAN 1 ACRE. USE ONLY DWQ-APPROVED FLOCCULANTS.

NPDES STABILIZATION LEGEND

NPDES STABILIZATION AREA 1

NPDES STABILIZATION AREA 2

NPDES STABILIZATION AREA 3

EROSION AND SEDIMENT CONTROL NOTES

TOTAL LIMITS OF DISTURBANCE = ±66,473 SF / 1.53 AC WHERE APPLICABLE, TREE PROTECTION FENCE IS THE LIMITS OF DISTURBANCE.

ADMIXTURES

JULY 15 - AUGUST 15

AGRICULTURAL LIMESTONE: 2 TONS / ACRE (3 TONS / ACRE IN CLAY SOILS)

1,000 LBS / ACRE - 10-10-10 FERTILIZER: SUPERPHOSPHATE: 500 LBS / ACRE - 20% ANALYSIS MULCH: 4,000 LBS / ACRE - SMALL GRAIN

ANCHOR: ASPHALT EMULSION AT 400 GALS /

TEMPORARY SEEDING SCHEDULE SHOULDERS, SIDE DITCHES, SLOPES

	(FOR SLOPES BETWEEN 2:1 AND 3:1)	
DATE	<u>TYPE</u>	
MARCH 1 - JUNE 1	CENTIPEDEGRASS	
MARCH 1 - JUNE 1	PANICUM VIRGATUM (SWITCHGRASS) <u>AND</u>	
MARCH 1 - APRIL 15	<u>add</u> tall fescue <u>Or</u>	
MARCH 1 - JUNE 30	<u>ADD</u> WEEPING LOVEGRASS <u>OR</u>	
MARCH 1 - JUNE 30	ADD HULLED COMMON BERMUDAGRASS	
JUNE 1 - SEPTEMBER 1	***TALL FESCUE <u>AND</u> ***BROWNTOP MILLET <u>OR</u> ***\$ORGHUM-SUDAN HYBRIDS	
SEPTEMBER 1 - MARCH 1	PANICUM VIRGATUM (SWITCHGRASS) AND TALL FESCUE	
NOVEMBER 1 - MARCH 1	<u>ADD</u> ABRUZZI RYE	
	SHOULDERS, SIDE DITCHES, SLOPES (FOR SLOPES 3:1 AND FLATTER)	
DATE	<u>TYPE</u>	
AUGUST 15 - NOVEMBER 1	TALL FESCUE	
NOVEMBER 1 - MARCH 1	TALL FESCUE AND ABRUZZI RYE	
MARCH 1 - APRIL 15	TALL FESCUE	
MARCH 1 - JUNE 1	CENTIPEDEGRASS	

TALL FESCUE <u>AND</u> ***BROWNTOP MILLET <u>OR</u>
***SORGHUM-SUDAN HYBRIDS



THIS PAGE IS SUBMITTED TO COMPLY WITH THE NPDES GENERAL STORMWATER

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TEMPORARY SEEDBED PREPARATION

CHISEL COMPACTED AREAS AND SPREAD TOPSOIL 3 INCHES DEEP OVER ADVERSE SOIL CONDITIONS, IF AVAILABLE.

- RIP THE ENTIRE AREA TO 6 INCHES DEEP.
- REMOVE ALL LOOSE ROCK, ROOTS, AND OTHER OBSTRUCTIONS, LEAVING SURFACE REASONABLY SMOOTH AND UNIFORM.
- APPLY AGRICULTURAL LIME, FERTILIZER, AND SUPERPHOSPHATE UNIFORMLY AND MIX WITH SOIL. (SEE ADMIXTURE BELOW)
- CONTINUE TILLAGE UNTIL A WELL-PULVERIZED, FIRM, REASONABLY UNIFORM SEEDBED IS PREPARED 4 TO 6 INCHES DEEP.
- SEED ON A FRESHLY PREPARED SEEDBED AND COVER SEED LIGHTLY WITH SEEDING EQUIPMENT OR CULTIPACK AFTER SEEDING.
- MULCH IMMEDIATELY AFTER SEEDING AND ANCHOR MULCH.
- INSPECT ALL SEEDED AREAS AND MAKE NECESSARY REPAIRS OR RESEEDINGS WITHIN THE PLANTING SEASON, IF POSSIBLE. IF STAND SHOULD BE MORE THAN 60% DAMAGED, RE-ESTABLISH FOLLOWING THE ORIGINAL LIME, FERTILIZER, AND
- CONSULT E&SC ENVIRONMENTAL ENGINEERS ON MAINTENANCE TREATMENT AND FERTILIZATION AFTER PERMANENT COVER IS ESTABLISHED.

SEEDBED PREPARATION

CHISEL COMPACTED AREAS AND SPREAD TOPSOIL 3 INCHES DEEP OVER ADVERSE SOIL CONDITIONS, IF AVAILABLE.

- RIP THE ENTIRE AREA TO 6 INCHES DEEP.
- REMOVE ALL LOOSE ROCK, ROOTS, AND OTHER OBSTRUCTIONS, LEAVING SURFACE REASONABLY SMOOTH AND UNIFORM.
- APPLY AGRICULTURAL LIME, FERTILIZER, AND SUPERPHOSPHATE UNIFORMLY AND MIX WITH SOIL. (SEE ADMIXTURE BELOW)
- CONTINUE TILLAGE UNTIL A WELL-PULVERIZED, FIRM, REASONABLY UNIFORM SEEDBED IS PREPARED 4 TO 6 INCHES DEEP.
- SEED ON A FRESHLY PREPARED SEEDBED AND COVER SEED LIGHTLY WITH SEEDING EQUIPMENT OR CULTIPACK AFTER SEEDING.
- MULCH IMMEDIATELY AFTER SEEDING AND ANCHOR MULCH.
- INSPECT ALL SEEDED AREAS AND MAKE NECESSARY REPAIRS OR RESEEDINGS WITHIN THE PLANTING SEASON, IF POSSIBLE. IF STAND SHOULD BE MORE THAN 60% DAMAGED, RE-ESTABLISH FOLLOWING THE ORIGINAL LIME, FERTILIZER, AND SEEDING RATES.
- INSPECT ALL SEEDED AREAS AND MAKE NECESSARY REPAIRS OR RESEEDINGS WITHIN THE PLANTING SEASON, IF POSSIBLE. IF STAND SHOULD BE MORE THAN 50% DAMAGED, RE-ESTABLISH FOLLOWING THE ORIGINAL LIME, FERTILIZER, AND SEEDING RATES AND LANDSCAPING PLANS.
- 10. SEE SEEDING SCHEDULES ON THIS SHEET FOR PERMANENT SEEDING, MULCHING, AND FERTILIZING RATES. ALL AREAS NOT DESIGNATED TO RECEIVE PLANTS SHALL BE SEEDED PER THE LANDSCAPING PLANS.

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SHALL BE EXPECTED TO ASSUME ANY RESPONSIBILITY FOR

OF ANY NEARBY STRUCTURES, OR OF ANY OTHER PERSONS.

SAFETY OF THE WORK, OF PERSONS ENGAGED IN THE WORK,

BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. CONSTRUCTION SITE SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR NEITHER THE OWNER NOR THE ENGINEER

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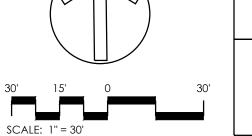
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PERMIT SET

NPDES PLAN

L. DICKSON J. ADRIATICO



GENERAL EROSION AND SEDIMENT CONTROL NOTES

- TOTAL LIMITS OF DISTURBANCE: ±66,473 SF / 1.53 AC
- REFER TO PHASED EROSION AND SEDIMENT CONTROL PLANS FOR CLEARING LIMITS AND TEMPORARY EROSION CONTROL DEVICES TO BE INSTALLED PRIOR TO COMMENCING LAND CLEARING OR CONSTRUCTION ACTIVITIES.
- CONTRACTOR SHALL COMPLY WITH ALL STATE AND LOCAL CODES IN OBSERVING EROSION CONTROL MEASURES BOTH ON AND OFF SITE.
- ALL EROSION AND SEDIMENT CONTROL PRACTICES TO BE INSPECTED WEEKLY AND AFTER EVERY RUNOFF PRODUCING RAINFALL EVENT, AS DIRECTED BY LOCAL AUTHORITIES. NEEDED REPAIRS WILL BE MADE IMMEDIATELY.
- EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED CONTINUOUSLY. SEEDED AREAS SHALL BE CHECKED REGULARLY AND SHALL BE WATERED, FERTILIZED, RESEEDED, AND MULCHED AS NECESSARY TO OBTAIN A DENSE STAND OF GRASS.
- CONTRACTOR SHALL PERFORM SELF-INSPECTIONS AFTER EACH PHASE OF THE PROJECT UNTIL AFTER FINAL STORMWATER/SITE STABILIZATION INSPECTION AND THE SITE IS APPROVED AS STABILIZED.
- THE CONTRACT SHALL INCLUDE IN THE CONTRACT PRICE ANY DEWATERING NECESSARY TO CONSTRUCT THE PROJECT AS SHOW ON THE PLANS.
- ALL 3:1 SLOPES SHALL BE STABILIZED WITH 'NO-MOW' NATURALIZED SEED MIX AND EROSION CONTROL MATTING.
- ALL EROSION & SEDIMENT CONTROL FENCING, FINAL INLET PROTECTIONS, FINAL PIPE INLET/OUTLET PROTECTIONS, AND TREE PROTECTION FENCING SHALL REMAIN IN PLACE UNTIL REMOVAL IS APPROVED AFTER FINAL STORMWATER/SITE STABILIZATION INSPECTION AND APPROVAL.
- INSTALL SLOPE EROSION CONTROL MATTING ON TOP OF ALL SIDE SLOPES ON CHANNELS, DIVERSION DITCHES, TEMPORARY SEDIMENT BASINS AND TEMPORARY SEDIMENT CATCHES, PER MANUFACTURERS SPECIFICATIONS.
- 11. INSTALL SLOPE EROSION CONTROL MATTING AS TEMPORARY STABILIZATION DURING THE ESTABLISHMENT OF GROUNDCOVER ON ALL TEMPORARY SLOPES GREATER THAN 6:1. INSTALL PER MANUFACTURERS SPECIFICATIONS.
- 12. MINIMUM REQUIRED SLOPE PROTECTION FOR ALL SLOPES GREATER THAN 3:1:
 - LESS THAN 10' ELEVATION CHANGE: MINIMUM JUTE NETTING.
 - GREATER THAN 10' ELEVATION CHANGE: MINIMUM NORTH AMERICAN GREEN S75 EROSION CONTROL MATTING OR EQUIVALENT.
- 14. MAXIMUM GRADED SLOPE SHALL NOT EXCEED 2:1.

AND THE GROUND STABILIZATION TABLE ON CE130.

- GROUND COVER STABILIZATION SHALL BE IN ACCORDANCE WITH NPDES PERMIT
- DURING ALL PHASES OF CONSTRUCTION GROUND COVER ON EXPOSED SLOPES SHALL BE PROVIDED FOLLOWING THE COMPLETION OF ANY PHASE OF GRADING, ACCORDING TO THE GROUND STABILIZATION TABLE ON THIS SHEET.
- 17. TEMPORARY CONSTRUCTION FENCE SHALL BE USED AS SHOWN ON THE PLANS TO INDICATE THE LIMITS OF DISTURBANCE AND/OR TO SECURE THE CONSTRUCTION
- ALL STORM PIPES SHALL BE PROTECTED WITH STONE FILTER PROTECTION AFTER STOPPAGE OF WORK EACH DAY.
- INITIAL STORMWATER INLET PROTECTION FOR NEW STORM STRUCTURES SHALL BE ROCK AND GRAVEL INLET PROTECTIONS.
- 20. ALL ROCK AND GRAVEL INLET PROTECTIONS FOR STRUCTURES WITHIN PAVED AREAS SHALL BE CONVERTED TO SILT BAG INLET PROTECTION TYPE DURING BASE PREPARATIONS FOR CURBING AND PAVEMENT.
- 21. IF THE SAME PERSON CONDUCTS THE LAND-DISTURBING ACTIVITY & ANY RELATED BORROW OR WASTE ACTIVITY. THE RELATED BORROW OR WASTE ACTIVITY SHALL CONSTITUTE PART OF THE LAND-DISTURBING ACTIVITY UNLESS THE BORROW OR WASTE ACTIVITY IS REGULATED UNDER THE MINING ACT OF 1971, OR IS A LANDFILL REGULATED BY THE DIVISION OF WASTE MANAGEMENT. IF THE LAND-DISTURBING ACTIVITY AND ANY RELATED BORROW OR WASTE ACTIVITY ARE NOT CONDUCTED BY THE SAME PERSON, THEY SHALL BE CONSIDERED SEPARATE LAND-DISTURBING ACTIVITIES AND MUST BE PERMITTED EITHER THROUGH THE SEDIMENTATION POLLUTION CONTROL ACT AS A ONE-USE BORROW SITE OR THROUGH THE MINING
- SUFFICIENT EROSION CONTROL PRACTICES MUST BE INSTALLED AND MAINTAINED TO RETAIN SEDIMENT WITHIN THE BOUNDARIES OF THE SITE.
- 23. SOIL STOCKPILES SHALL BE LIMITED TO THE SHORTER OF 30 FEET ABOVE EXISTING GRADE OR HOLD THE HEIGHT OF THE ADJACENT EXISTING MATURE TREE COVER
- 24. ALL EROSION AND SEDIMENT CONTROL ACTIVITIES SHALL BE IN ACCORDANCE WITH NEW HANOVER COUNTY UNIFIED DEVELOPMENT ORDINANCE ARTICLE 8 --EROSION AND SEDIMENT CONTROL.

WITH SLOPES OF 2:1 OR FLATTER.

NCDEQ - DEMLR SELF-INSPECTION PROGRAM

THE SEDIMENTATION POLLUTION CONTROL ACT WAS AMENDED IN 2006 TO REQUIRE THAT PERSONS RESPONSIBLE FOR LAND-DISTURBING ACTIVITIES INSPECT A PROJECT AFTER EACH PHASE OF THE PROJECT TO MAKE SURE THAT THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN IS BEING FOLLOWED.

RULES DETAILING THE DOCUMENTATION OF THESE INSPECTIONS TAKE EFFECT OCTOBER 1, 2010.

THE SELF-INSPECTION PROGRAM IS SEPARATE FROM THE WEEKLY SELF-MONITORING PROGRAM OF THE NPDES STORMWATER PERMIT FOR CONSTRUCTION ACTIVITIES. THE FOCUS OF THE SELF-INSPECTION REPORT IS THE INSTALLATION AND MAINTENANCE OF EROSION AND SEDIMENTATION CONTROL MEASURES ACCORDING TO THE APPROVED PLAN. THE INSPECTIONS SHOULD BE CONDUCTED AFTER EACH PHASE OF THE PROJECT, AND CONTINUED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.

EXCERPTS FROM THE NORTH CAROLINA GENERAL STATUES AND THE NORTH CAROLINA ADMINISTRATIVE CODE CONCERNING SELF-INSPECTIONS ARE ENCLOSED. TO BETTER EXPLAIN THE REQUIREMENTS, A LIST OF FREQUENTLY ASKED QUESTIONS IS ALSO ENCLOSED, ALONG WITH A SELF-INSPECTION REPORT FORM. THE SELF-INSPECTION REPORT FORM WILL ALSO BE AVAILABLE AS AN EXCEL SPREADSHEET FROM THE LAND QUALITY WEB SITE,

http://www.dlr.enr.state.nc.us/pages/sedimentation_new.html

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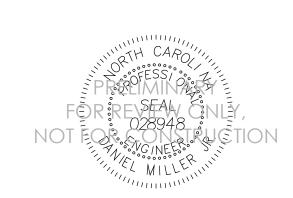
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PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

CONSTRUCTION SITE SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR NEITHER THE OWNER NOR THE ENGINEER SHALL BE EXPECTED TO ASSUME ANY RESPONSIBILITY FOR SAFETY OF THE WORK, OF PERSONS ENGAGED IN THE WORK, OF ANY NEARBY STRUCTURES, OR OF ANY OTHER PERSONS.

NOVANT HEALTH FAMILY MEDICAL CLINIC -**GREENFIELD**

1423 GREENFIELD STREET, WILMINGTON, NC

No.	Description	Date

PERMIT SET

EROSION & SEDIMENT CONTROL DETAILS

L. DICKSON PROJECT NUMBER 21-025

STEEL FENCE POST MAINTENANCE: MAINTAIN THE GRAVEL PAD IN A CONDITION TO PREVENT CLEAN OUT AT 50% CAPACITY MUD OR SEDIMENT FROM LEAVING THE CONSTRUCTION LIFE OF FENCING: 6-9 MONTHS SITE, THIS MAY REQUIRE PERIODIC TOP DRESSING WITH REPLACE STONE AS NEEDED TO ENSURE HARDWARE CLOTH **DEWATERING** STRUCTURE USED TO TRAP SEDIMENT AND CLEAN IT OUT FILTER OUTLETS SHALL BE INSPECTED BY THE FINANCIALLY RESPONSIBLE PARTY OR AUTHORIZED AGENT IMMEDIATELY AFTER 3' FILTER FABRIC EACH RAINFALL AND AT LEAST DAILY DURING FILTER OF 1" DIAMETER. ON GROUND PROLONGED RAINFALL. ANY REPAIRS WASHED STONE NEEDED SHALL BE MADE IMMEDIATELY. STONE SHALL BE REPLACED PROMPTLY AFTER ANY EVENT THAT HAS CLOGGED OR BURY WIRE FENCE AND SEDIMENT DEPOSITS SHOULD BE REMOVED WHEN DEPOSITS REACH HALF THE HEIGHT OF HARDWARF CLOTH BURY 6" OF UPPER EDGE OF THE BARRIER. ANY SEDIMENT DEPOSITS FILTER FABRIC IN TRENCH REMAINING IN PLACE AFTER THE SILT FENCE OUTLET IS REMOVED SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDED. SECTION VIEW SILT FENCE TOP OF SILT FENCE MUST BE AT LEAST 1 ABOVE THE TOP OF THE WASHED STONE

FRONT VIEW

6' MAX. O.C. - EXTRA STRENGTH FABRIC, TYPICAL 8' MAX. OC. WHERE SITE CONDITIONA REQUIRE WIRE BACKING MIN. 10 GA. LINE ⇒ INTERMEDIATE - INSTALLED TO SECOND WIRE FROM TOP FRONT VIEW - END OF SILT FENCE SHOULD BE TURNED UPHILL - SEE N.C. STATE DENR PRACTICE STANDARDS & SPECIFICATIONS SEDIMENT FENCE SET FOR CONDITIONS WHERE PRACTICE APPLIES; PLANNING CONSIDERATIONS & DESIGN CRITERIA. (HOWEVER FLOW SHALL NOT RUN PARRALLEL WITH THE TOE OF THE FENCE). WOVEN WIRE FABRIC IS ALWAYS REQUIRED SILT FENCE GEOTEXTILE FABRIC - FILL SLOPE MAINTENANCE: FOR REPAIR OF SILT FENCE FAILURES, USE No. 57 WASHED STONE. FOR ANCHOR WHEN SILT FENCE IS PROTECTING CATCH BASIN. IN EACH CASE THE 6" MIN. COVER SILT FENCE IS TO BE PROPERLY ENTRENCHED & THE STONE SHALL BE AT A ANCHOR SKIRT AS MINIMUM OF 16" ABOVE DIRECTED BY GRADE AT THE DIRECTION **ENGINEER.** * OF FLOW & BETWEEN 60 - 45 SIDE VIEW

STANDARD TEMPORARY SILT FENCE

SCALE: NTS

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CONSTRUCTION SITE SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR NEITHER THE OWNER NOR THE ENGINEER SHALL BE EXPECTED TO ASSUME ANY RESPONSIBILITY FOR SAFETY OF THE WORK, OF PERSONS ENGAGED IN THE WORK, OF ANY NEARBY STRUCTURES, OR OF ANY OTHER PERSONS.

ALL CONSTRUCTION SHALL BE IN ACCORDANCE

WITH ALL CITY OF WILMINGTON AND NCDOT

STANDARDS AND SPECIFICATIONS

FAMILY MEDICAL CLINIC -GREENFIELD

NOVANT HEALTH

1423 GREENFIELD STREET, WILMINGTON, NC

No.	Description	Date

PERMIT SET

EROSION & SEDIMENT CONTROL DETAILS

L. DICKSON

NCG01 GROUND STABILIZATION AND MATERIALS HANDLING

GROUND STABILIZATION AND MATERIALS HANDLING PRACTICES FOR COMPLIANCE WITH THE NCG01 CONSTRUCTION GENERAL PERMIT

Implementing the details and specifications on this plan sheet will result in the construction activity being considered compliant with the Ground Stabilization and Materials Handling sections of the NCG01 Construction General Permit (Sections E and F, respectively). The permittee shall comply with the Erosion and Sediment Control plan approved by the delegated authority having jurisdiction. All details and specifications shown on this sheet may not apply depending on site conditions and the delegated authority having jurisdiction

SECTION E: GROUND STABILIZATION

Required Ground Stabilization Timeframes					
Site Area Description		Stabilize within this many calendar days after ceasing land disturbance	Timeframe variations		
(a)	Perimeter dikes, swales, ditches, and perimeter slopes	7	None		
(b)	High Quality Water (HQW) Zones	7	None		
(c)	Slopes steeper than 3:1	7	If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed		
(d)	Slopes 3:1 to 4:1	14	-7 days for slopes greater than 50' in length and with slopes steeper than 4:1 -7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed		
(e)	Areas with slopes flatter than 4:1	14	 -7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed unless there is zero slope 		

Note: After the permanent cessation of construction activities, any areas with temporary ground stabilization shall be converted to permanent ground stabilization as soon as practicable but in no case longer than 90 calendar days after the last land disturbing activity. Temporary ground stabilization shall be maintained in a manner to render the surface stable against accelerated erosion until permanent ground stabilization is achieved.

GROUND STABILIZATION SPECIFICATION

Temporary Stabilization

Stabilize the ground sufficiently so that rain will not dislodge the soil. Use one of the techniques in the table below:

Permanent Stabilization

POLYACRYLAMIDES (PAMS) AND FLOCCULANTS

- Select flocculants that are appropriate for the soils being exposed during construction, selecting from the NC DWR List of Approved PAMS/Flocculants.
- 2. Apply flocculants at or before the inlets to Erosion and Sediment Control Measures. 3. Apply flocculants at the concentrations specified in the NC DWR List of Approved
- *PAMS/Flocculants* and in accordance with the manufacturer's instructions. 4. Provide ponding area for containment of treated Stormwater before discharging
- Store flocculants in leak-proof containers that are kept under storm-resistant cover or surrounded by secondary containment structures.

EQUIPMENT AND VEHICLE MAINTENANCE

SCALE: NTS

- 1. Maintain vehicles and equipment to prevent discharge of fluids.
- 2. Provide drip pans under any stored equipment.
- 3. Identify leaks and repair as soon as feasible, or remove leaking equipment from the
- 4. Collect all spent fluids, store in separate containers and properly dispose as hazardous waste (recycle when possible).
- 5. Remove leaking vehicles and construction equipment from service until the problem
- 6. Bring used fuels, lubricants, coolants, hydraulic fluids and other petroleum products to a recycling or disposal center that handles these materials.

LITTER, BUILDING MATERIAL AND LAND CLEARING WASTE

- Never bury or burn waste. Place litter and debris in approved waste containers. Provide a sufficient number and size of waste containers (e.g dumpster, trash
- receptacle) on site to contain construction and domestic wastes. Locate waste containers at least 50 feet away from storm drain inlets and surface
- waters unless no other alternatives are reasonably available. Locate waste containers on areas that do not receive substantial amounts of runoff
- from upland areas and does not drain directly to a storm drain, stream or wetland. Cover waste containers at the end of each workday and before storm events or
- provide secondary containment. Repair or replace damaged waste containers. Anchor all lightweight items in waste containers during times of high winds.
- Empty waste containers as needed to prevent overflow. Clean up immediately if
- 8. Dispose waste off-site at an approved disposal facility.

9. On business days, clean up and dispose of waste in designated waste containers.

PAINT AND OTHER LIQUID WASTE

- 1. Do not dump paint and other liquid waste into storm drains, streams or wetlands. 2. Locate paint washouts at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
- 3. Contain liquid wastes in a controlled area.
- 4. Containment must be labeled, sized and placed appropriately for the needs of site.
- 5. Prevent the discharge of soaps, solvents, detergents and other liquid wastes from construction sites.

PORTABLE TOILETS

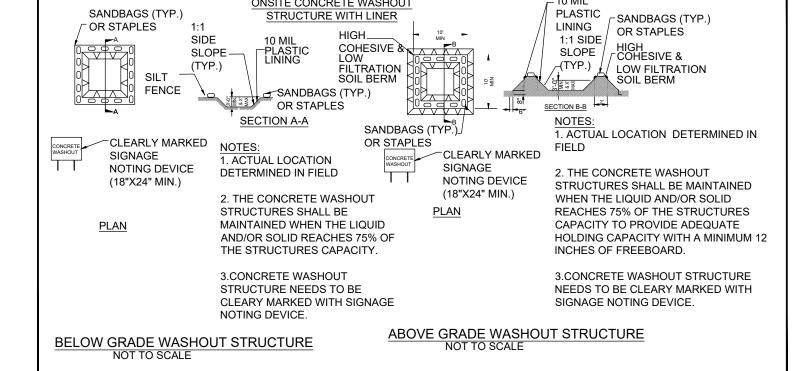
- Install portable toilets on level ground, at least 50 feet away from storm drains, streams or wetlands unless there is no alternative reasonably available. If 50 foot offset is not attainable, provide relocation of portable toilet behind silt fence or place on a gravel pad and surround with sand bags.
- Provide staking or anchoring of portable toilets during periods of high winds or in high
- Monitor portable toilets for leaking and properly dispose of any leaked material. Utilize a licensed sanitary waste hauler to remove leaking portable toilets and replace with properly operating unit.

EARTHEN STOCKPILE MANAGEMENT

- 1. Show stockpile locations on plans. Locate earthen-material stockpile areas at least 50 feet away from storm drain inlets, sediment basins, perimeter sediment controls and surface waters unless it can be shown no other alternatives are reasonably available.
- Protect stockpile with silt fence installed along toe of slope with a minimum offset of five feet from the toe of stockpile.
- Provide stable stone access point when feasible.
- 4. Stabilize stockpile within the timeframes provided on this sheet and in accordance with the approved plan and any additional requirements. Soil stabilization is defined as vegetative, physical or chemical coverage techniques that will restrain accelerated erosion on disturbed soils for temporary or permanent control needs.

HAZARDOUS AND TOXIC WASTE

- 1. Create designated hazardous waste collection areas on-site.
- 2. Place hazardous waste containers under cover or in secondary containment.
- 3. Do not store hazardous chemicals, drums or bagged materials directly on the ground.



BURY FILTER FABRIC

CLOTH IN TRENCH

AND HARDWARE

STEEL FENCE POST

GROUND

SCALE: NTS

SILT FENCE OUTLET

SET MAX 2' APART MIN. 18" INTO SOLID

CONCRETE WASHOUTS

- 1. Do not discharge concrete or cement slurry from the site.
- 2. Dispose of, or recycle settled, hardened concrete residue in accordance with local and state solid waste regulations and at an approved facility.
- Manage washout from mortar mixers in accordance with the above item and in addition place the mixer and associated materials on impervious barrier and within lot perimeter silt fence.
- 4. Install temporary concrete washouts per local requirements, where applicable. If an alternate method or product is to be used, contact your approval authority for review and approval. If local standard details are not available, use one of the two types of temporary concrete washouts provided on this detail.
- 5. Do not use concrete washouts for dewatering or storing defective curb or sidewalk sections. Stormwater accumulated within the washout may not be pumped into or discharged to the storm drain system or receiving surface waters. Liquid waste must be pumped out and removed from project.
- Locate washouts at least 50 feet from storm drain inlets and surface waters unless it can be shown that no other alternatives are reasonably available. At a minimum, install protection of storm drain inlet(s) closest to the washout which could receive
- spills or overflow. Locate washouts in an easily accessible area, on level ground and install a stone entrance pad in front of the washout. Additional controls may be required by the
- approving authority. 8. Install at least one sign directing concrete trucks to the washout within the project limits. Post signage on the washout itself to identify this location.
- 9. Remove leavings from the washout when at approximately 75% capacity to limit overflow events. Replace the tarp, sand bags or other temporary structural components when no longer functional. When utilizing alternative or proprietary products, follow manufacturer's instructions.
- 10. At the completion of the concrete work, remove remaining leavings and dispose of in an approved disposal facility. Fill pit, if applicable, and stabilize any disturbance caused by removal of washout.

HERBICIDES, PESTICIDES AND RODENTICIDES

- 1. Store and apply herbicides, pesticides and rodenticides in accordance with label
- 2. Store herbicides, pesticides and rodenticides in their original containers with the label, which lists directions for use, ingredients and first aid steps in case of accidental poisoning.
- Do not store herbicides, pesticides and rodenticides in areas where flooding is possible or where they may spill or leak into wells, stormwater drains, ground water or surface water. If a spill occurs, clean area immediately.
- Do not stockpile these materials onsite.

NCG01 SELF-INSPECTION, RECORDKEEPING AND REPORTING

PART III

SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION A: SELF-INSPECTION

Self-inspections are required during normal business hours in accordance with the table below. When adverse weather or site conditions would cause the safety of the inspection personnel to be in jeopardy, the inspection may be delayed until the next business day on which it is safe to perform the inspection. In addition, when a storm event of equal to or greater than 1.0 inch occurs outside of normal business hours, the self-inspection shall be performed upon the commencement of the next business day. Any time when inspections were delayed shall be noted in the Inspection Record.

Inspect	Frequency (during normal business hours)	Inspection records must include:
(1) Rain gauge maintained in good working order	Daily	Daily rainfall amounts. If no daily rain gauge observations are made during weekend of holiday periods, and no individual-day rainfall information is available, record the cumulative rain measurement for those unattended days (and this will determine if a site inspection is needed). Days on which no rainfall occurred shall be recorded as "zero." The permittee may use another rain-monitoring device approved by the Division.
(2) E&SC Measures	At least once per 7 calendar days and within 24 hours of a rain event \geq 1.0 inch in 24 hours	 Identification of the measures inspected, Date and time of the inspection, Name of the person performing the inspection, Indication of whether the measures were operating properly, Description of maintenance needs for the measure, Description, evidence, and date of corrective actions taken.
(3) Stormwater discharge outfalls (SDOs)	At least once per 7 calendar days and within 24 hours of a rain event \geq 1.0 inch in 24 hours	 Identification of the discharge outfalls inspected, Date and time of the inspection, Name of the person performing the inspection, Evidence of indicators of stormwater pollution such as oil sheen, floating or suspended solids or discoloration, Indication of visible sediment leaving the site, Description, evidence, and date of corrective actions taken.
(4) Perimeter of site	At least once per 7 calendar days and within 24 hours of a rain event > 1.0 inch in 24 hours	 If visible sedimentation is found outside site limits, then a record of the following shall be made: Actions taken to clean up or stabilize the sediment that has left the site limits, Description, evidence, and date of corrective actions taken, and An explanation as to the actions taken to control future releases.
(5) Streams or wetlands onsite or offsite (where accessible)	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	If the stream or wetland has increased visible sedimentation or a stream has visible increased turbidity from the construction activity, then a record of the following shall be made: 1. Description, evidence and date of corrective actions taken, and 2. Records of the required reports to the appropriate Division Regional Office per Part III, Section C, Item (2)(a) of this permit.
(6) Ground stabilization measures	After each phase of grading	 The phase of grading (installation of perimeter E&SC measures, clearing and grubbing, installation of storm drainage facilities, completion of all land-disturbing activity, construction or redevelopment, permanent ground cover). Documentation that the required ground stabilization measures have been provided within the required timeframe or an assurance that they will be provided as soon as possible.

NOTE: The rain inspection resets the required 7 calendar day inspection requirement.

SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION B: RECORDKEEPING

1. E&SC Plan Documentation

The approved E&SC plan as well as any approved deviation shall be kept on the site. The approved E&SC plan must be kept up-to-date throughout the coverage under this permit. The following items pertaining to the E&SC plan shall be kept on site and available for inspection at all times during normal business hours.

Item to Document	Documentation Requirements		
(a) Each E&SC measure has been installed and does not significantly deviate from the locations, dimensions and relative elevations shown on the approved E&SC plan.	Initial and date each E&SC measure on a copy of the approved E&SC plan or complete, date and sign an inspection report that lists each E&SC measure shown on the approved E&SC plan. This documentation is required upon the initial installation of the E&SC measures or if the E&SC measures are modified after initial installation.		
(b) A phase of grading has been completed.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate completion of the construction phase.		
(c) Ground cover is located and installed in accordance with the approved E&SC plan.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate compliance with approved ground cover specifications.		
(d) The maintenance and repair requirements for all E&SC measures have been performed.	Complete, date and sign an inspection report.		
(e) Corrective actions have been taken to E&SC measures.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate the completion of the corrective action.		

In addition to the E&SC plan documents above, the following items shall be kept on the site and available for inspectors at all times during normal business hours, unless the Division provides a site-specific exemption based on unique site conditions that make

- (a) This General Permit as well as the Certificate of Coverage, after it is received.
- (b) Records of inspections made during the previous twelve months. The permittee shall record the required observations on the Inspection Record Form provided by the Division or a similar inspection form that includes all the required elements. Use of electronically-available records in lieu of the required paper copies will be allowed if shown to provide equal access and utility as the hard-copy records.

3. Documentation to be Retained for Three Years

this requirement not practical:

All data used to complete the e-NOI and all inspection records shall be maintained for a period of three years after project completion and made available upon request. [40 CFR 122.41]

SCALE: NTS

PART II, SECTION G, ITEM (4) DRAW DOWN OF SEDIMENT BASINS FOR MAINTENANCE OR CLOSE OUT

Sediment basins and traps that receive runoff from drainage areas of one acre or more shall use outlet structures that withdraw water from the surface when these devices need to be drawn down for maintenance or close out unless this is infeasible. The circumstances in which it is not feasible to withdraw water from the surface shall be rare (for example, times with extended cold weather). Non-surface withdrawals from sediment basins shall be allowed only when all of the following criteria have been met:

- (a) The E&SC plan authority has been provided with documentation of the non-surface withdrawal and the specific time periods or conditions in which it will occur. The non-surface withdrawal shall not commence until the E&SC plan authority has approved these items,
- (b) The non-surface withdrawal has been reported as an anticipated bypass in accordance with Part III, Section C, Item (2)(c) and (d) of this permit,
- (c) Dewatering discharges are treated with controls to minimize discharges of pollutants from stormwater that is removed from the sediment basin. Examples of appropriate controls include properly sited, designed and maintained dewatering tanks, weir tanks, and filtration systems,
- (d) Vegetated, upland areas of the sites or a properly designed stone pad is used to the extent feasible at the outlet of the dewatering treatment devices described in Item (c) above,
- (e) Velocity dissipation devices such as check dams, sediment traps, and riprap are provided at the discharge points of all dewatering devices, and
- (f) Sediment removed from the dewatering treatment devices described in Item (c) above is disposed of in a manner that does not cause deposition of sediment into waters of the United States.

PART III

SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION C: REPORTING

1. Occurrences that Must be Reported

Permittees shall report the following occurrences: (a) Visible sediment deposition in a stream or wetland.

(b) Oil spills if:

- They are 25 gallons or more,
- They are less than 25 gallons but cannot be cleaned up within 24 hours,
- They cause sheen on surface waters (regardless of volume), or
- They are within 100 feet of surface waters (regardless of volume).
- (c) Releases of hazardous substances in excess of reportable quantities under Section 311 of the Clean Water Act (Ref: 40 CFR 110.3 and 40 CFR 117.3) or Section 102 of CERCLA (Ref: 40 CFR 302.4) or G.S. 143-215.85.
- (d) Anticipated bypasses and unanticipated bypasses.
- (e) Noncompliance with the conditions of this permit that may endanger health or the environment.

2. Reporting Timeframes and Other Requirements

After a permittee becomes aware of an occurrence that must be reported, he shall contact the appropriate Division regional office within the timeframes and in accordance with the other requirements listed below. Occurrences outside normal business hours may also be reported to the Department's Environmental Emergency Center personnel at (800) 858-0368.

Occurrence	Reporting Timeframes (After Discovery) and Other Requirements			
(a) Visible sediment	Within 24 hours, an oral or electronic notification.			
deposition in a	• Within 7 calendar days, a report that contains a description of the			
stream or wetland	sediment and actions taken to address the cause of the deposition.			
	Division staff may waive the requirement for a written report on a			
	case-by-case basis.			
	• If the stream is named on the NC 303(d) list as impaired for sediment-			
	related causes, the permittee may be required to perform additional			
	monitoring, inspections or apply more stringent practices if staff			
	determine that additional requirements are needed to assure compliance			
	with the federal or state impaired-waters conditions.			
(b) Oil spills and	• Within 24 hours, an oral or electronic notification. The notification			
release of	shall include information about the date, time, nature, volume and			
hazardous	location of the spill or release.			
substances per Item				
1(b)-(c) above				
(c) Anticipated	A report at least ten days before the date of the bypass, if possible.			
bypasses [40 CFR	The report shall include an evaluation of the anticipated quality and			
122.41(m)(3)]	effect of the bypass.			
(d) Unanticipated	Within 24 hours, an oral or electronic notification.			
bypasses [40 CFR	Within 7 calendar days, a report that includes an evaluation of the			
122.41(m)(3)]	quality and effect of the bypass.			
(e) Noncompliance	Within 24 hours, an oral or electronic notification.			
with the conditions	Within 7 calendar days, a report that contains a description of the			
of this permit that	noncompliance, and its causes; the period of noncompliance,			
may endanger health or the	including exact dates and times, and if the noncompliance has not			
environment[40	been corrected, the anticipated time noncompliance is expected to			
CFR 122.41(I)(7)]	continue; and steps taken or planned to reduce, eliminate, and			
CFN 122.41(I)(/)]	prevent reoccurrence of the noncompliance. [40 CFR 122.41(I)(6).			
	Division staff may waive the requirement for a written report on a			
	case-by-case basis.			

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3 WORKING DAYS BEFORE YOU DIG FOR THE LOCATION OF UNDERGROUND FACILITIES Know what's below. Call before you dig.

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GREENFIELD 1423 GREENFIELD STREET, WILMINGTON, NC CONSTRUCTION SITE SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR NEITHER THE OWNER NOR THE ENGINEER SHALL BE EXPECTED TO ASSUME ANY RESPONSIBILITY FOR

No.	Description	

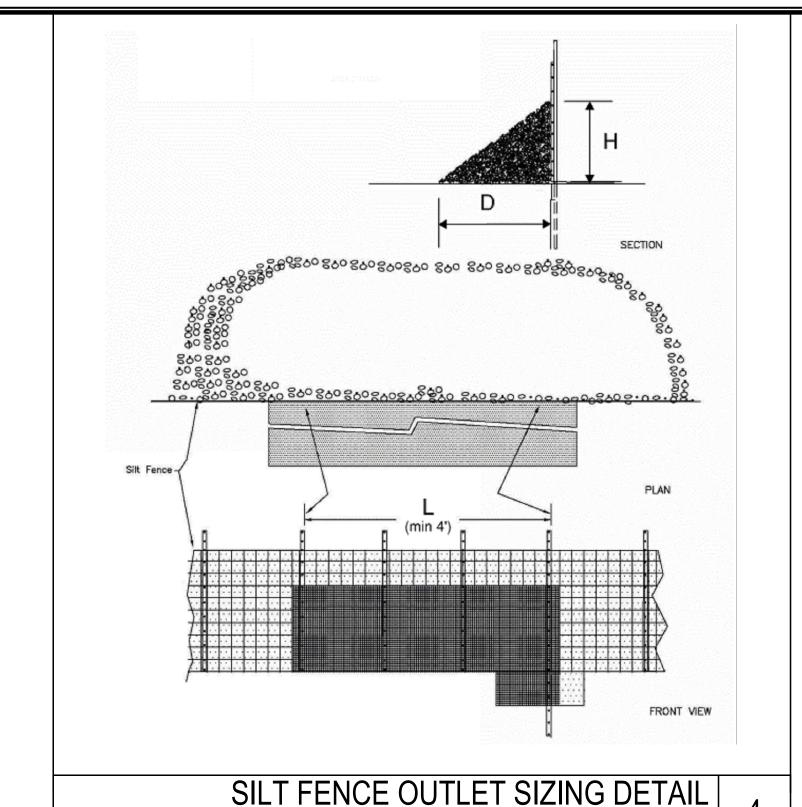
NOVANT HEALTH

FAMILY MEDICAL

CLINIC -

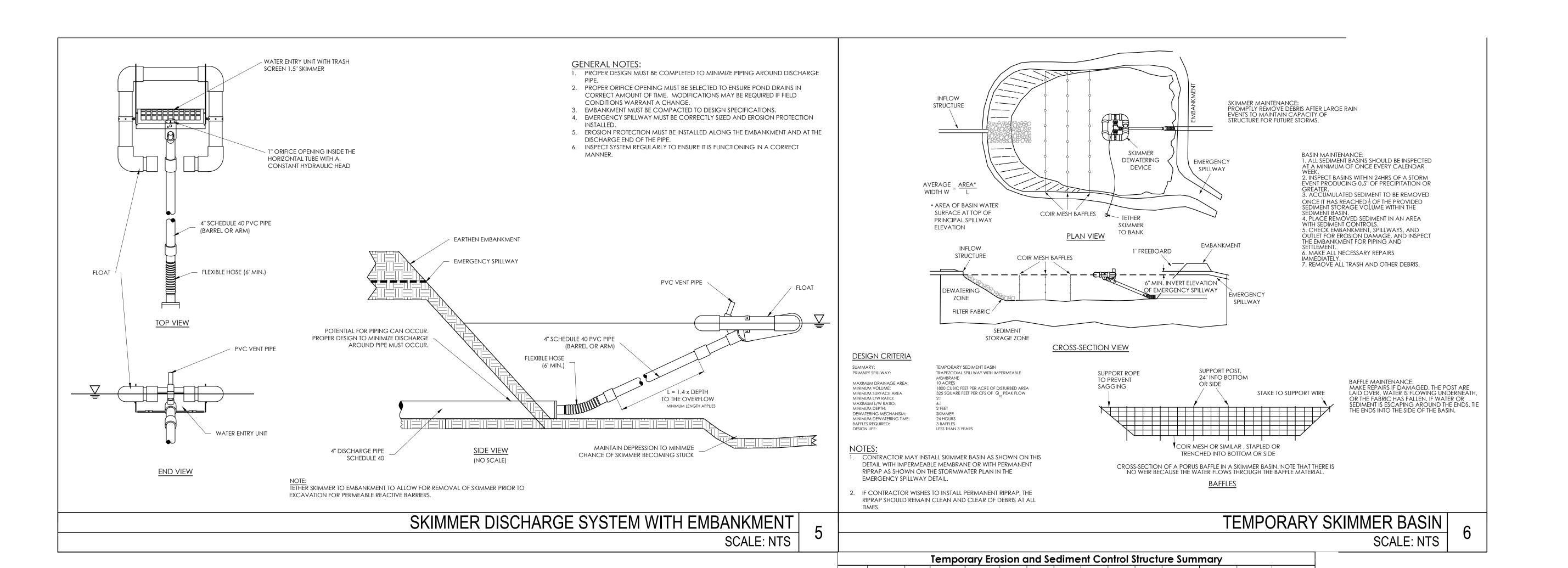
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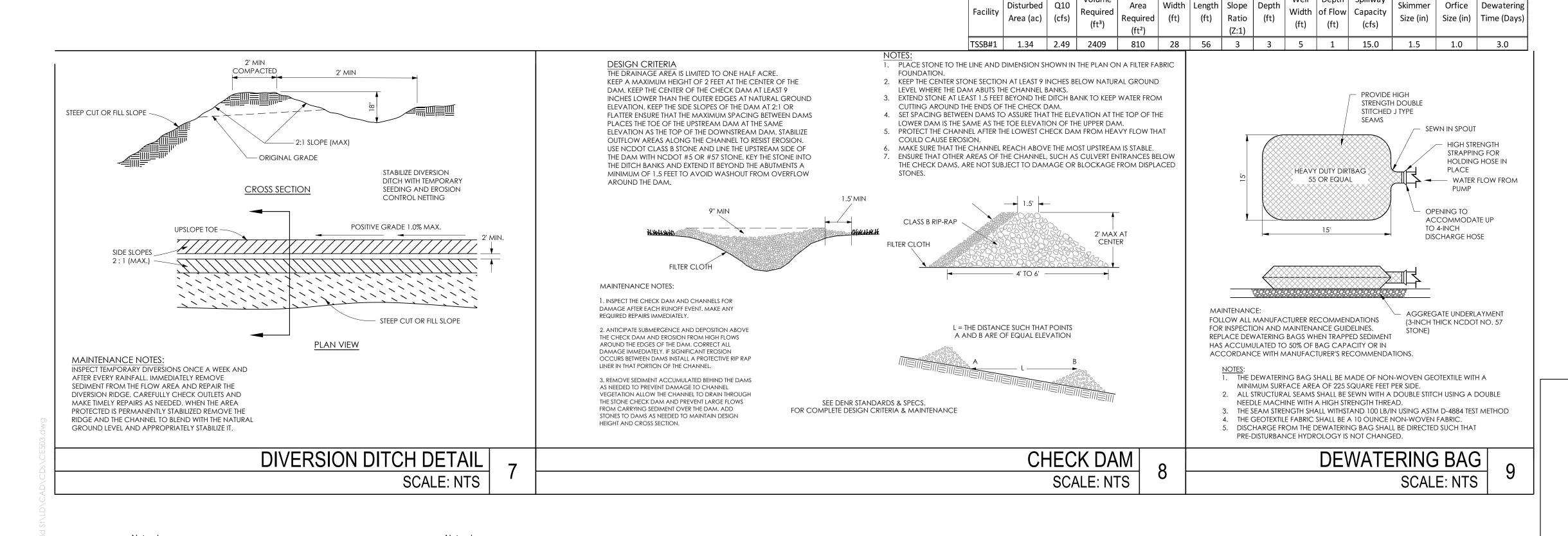
EROSION & SEDIMENT CONTROL DETAILS



D (ft) Drainage | H (in) | Dv (ft³) | Silt Fence Outlet Description (1' min) Area (sf) Area (ac) 1 | 4 | 1 | 2 | 0.39 1132 0.03 Along Greenfield Street near intersection of Greenfield Street and S. 15th 0.05 1 2 0.80 2315 Along S. 15th Street, near intersection of S. 15th Street and Greenfield Street 0.48

Silt Fence Outlet Sizing





Velocity

0.5 1.74

Liner Required?

VEG ONLY

VEG ONLY

Permanent Swale

(Z:1)

3

Slope | Width | Depth (ft)

3.0

3.0

Length

343.0

343.0 2.2%

Q (cfs)

3.15

3.38

Area (ac)

1.21

Diversion Ditch

TOP WIDTH VARIES, SEE PLAN -

CHANNEL LINING MATERIAL = SEE CHART

TEMPORARY DIVERSION DITCH OR PERMANENT SWALE

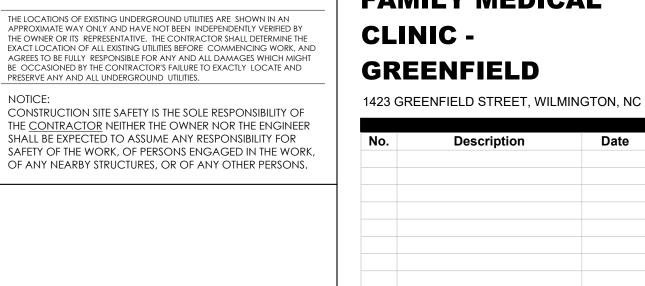
WITH MATTING

NOT TO SCALE

Min. d= Ft.

B= Ft.

Ground



3 WORKING DAYS

BEFORE YOU DIG

FOR THE LOCATION OF UNDERGROUND FACILITIES

Know what's below.

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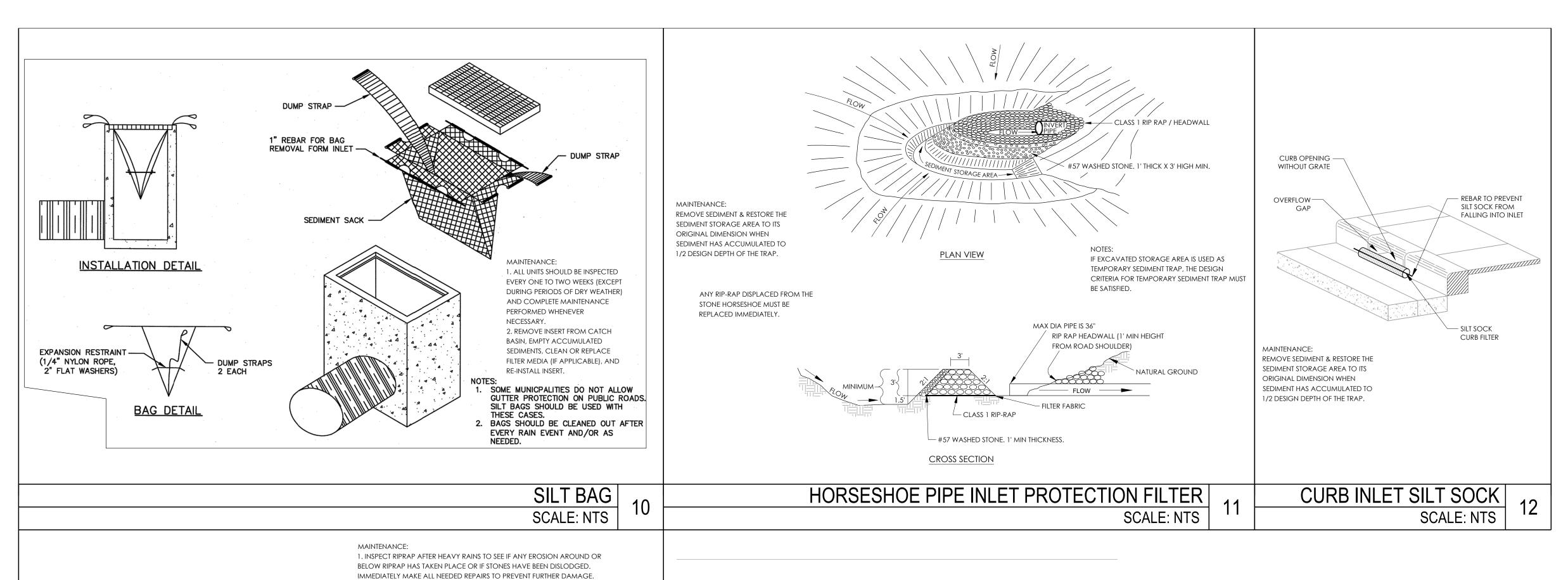


NOVANT HEALTH FAMILY MEDICAL

No.	Description	Date

PERMIT SET

EROSION & SEDIMENT CONTROL DETAILS







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FAMILY MEDICAL CLINIC -GREENFIELD

NOVANT HEALTH

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No.	Description	Date

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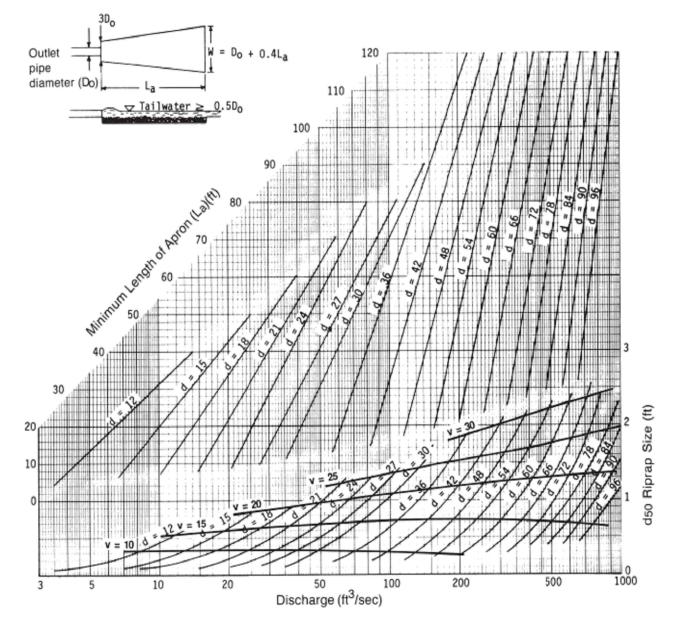
EROSION & SEDIMENT CONTROL DETAILS

ISSUE DATE

CHECKED

L. DICKSON
SHEET BY
J. ADRIATICO
PROJECT NUMBER

O1/12/202



Curves may not be extrapolated.

ISOMETRIC VIEW

SCALE: NTS

RIPRAP APRON WITH HEADWALL

OUTLET DISSIPATION CHART

4.40

6.13

Outside Pipe Discharge Q₁₀ at Pipe Outlet at Outlet Apron Length d₅₀ Stone Size Apron Thickness

6.00

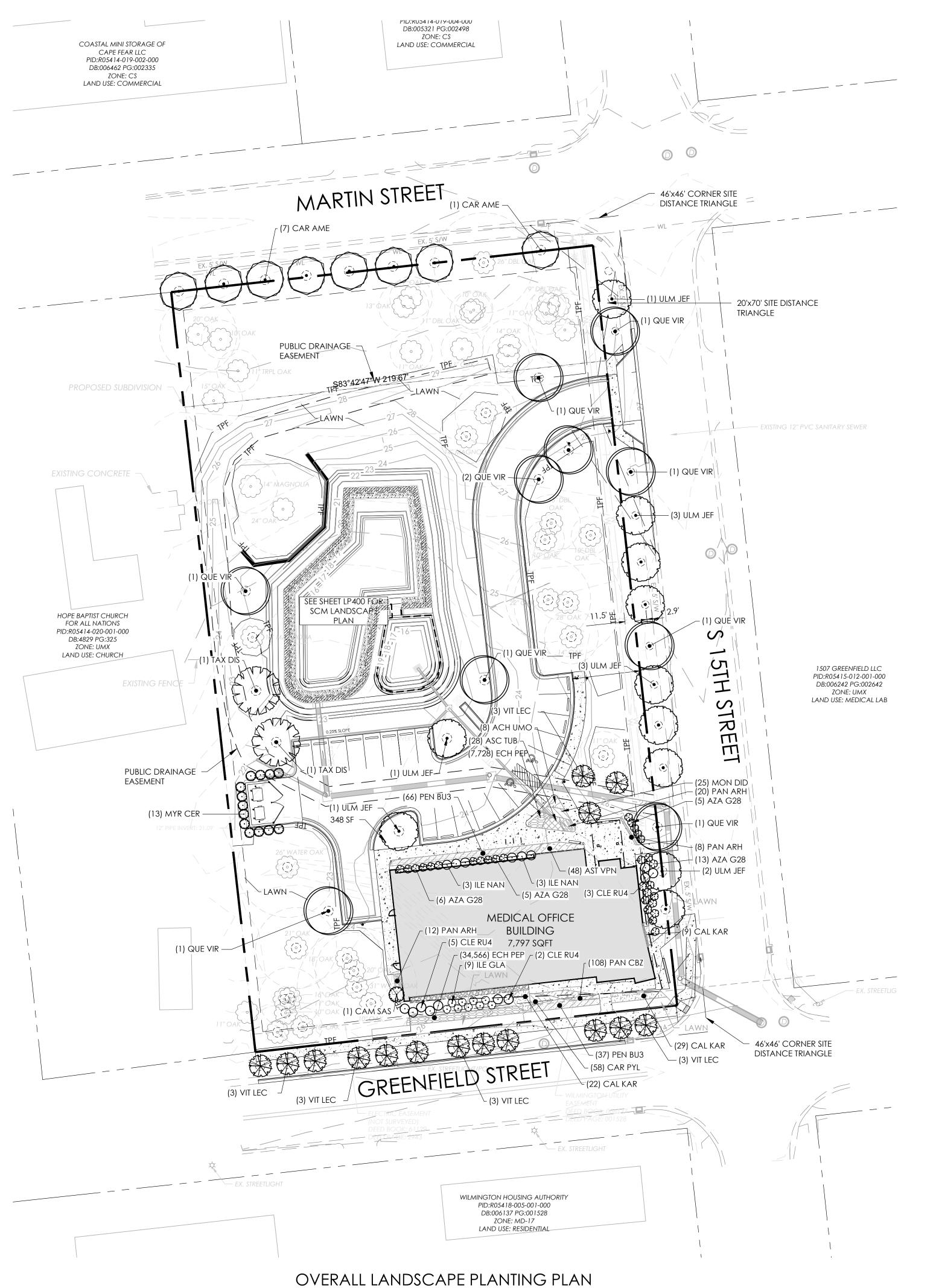
Figure 8.06b Design of outlet protection from a round pipe flowing full, maximum tailwater condition (T_w ≥ 0.5 diameter).

8.06.4 Rev. 12/93

Structure Diameter (in) (cfs)
HW205 17.5 6

OUTLET STRUCTURE DIMENSIONS

SEE APPROPRIATE SCHEDULE FOR DIMENSIONS
 A FILTER BLANKET OR FILTER FABRIC SHOULD BE INSTALLED BETWEEN THE RIPRAP AND SOIL



Scale: 1" = 30'

PLANT SCHEDULE- TREES						
DECIDUOUS TREES	QTY	BOTANICAL / COMMON NAME	SIZE	CONTAINER	REMARKS	
CAR AME	8	CARPINUS CAROLINIANA / AMERICAN HORNBEAM	3" CAL.	B&B		
TAX DIS	2	TAXODIUM DISTICHUM / BALD CYPRESS	3" CAL.	B&B	SINGLE STRAIGHT LEADER	
ULM JEF	11	ULMUS AMERICANA 'JEFFERSON' / JEFFERSON AMERICAN ELM	3" CAL.	B&B	SINGLE STRAIGHT LEADER	
VIT LEC	15	VITEX AGNUS-CASTUS 'LECOMPTE' / LECOMPTE CHASTE TREE	2" CAL.	B&B		
EVERGREEN TREES	QTY	BOTANICAL / COMMON NAME	SIZE	CONTAINER	REMARKS	
QUE VIR	10	QUERCUS VIRGINIANA / SOUTHERN LIVE OAK	3" CAL.	В&В	SINGLE STRAIGHT LEADER	

PLANT S	CHEDUL	E- SHRUBS			
SHRUBS	QTY	BOTANICAL / COMMON NAME	SIZE	CONTAINER	REMARKS
AZA G28	29	AZALEA X 'GIRARD'S ROSE' / GIRARD'S ROSE AZALEA	3 GAL.	POT	
CAM SAS	1	CAMELLIA SASANQUA / SASANQUA CAMELLIA	5 GAL.	POT	FULLY ROOTED
CLE RU4	10	CLETHRA ALNIFOLIA 'RUBY SPICE' / RUBY SPICE SUMMERSWEET	3 GAL.	POT	FULLY ROOTED
ECH PEP	42,294	ECHINACEA X 'PURPLE EMPEROR' / PURPLE EMPEROR CONEFLOWER	1 GAL.	POT	SPACING: 18" O.C.
ILE GLA	9	ILEX GLABRA / INKBERRY HOLLY	3 GAL.	POT	FULLY ROOTED
ILE NAN	6	ILEX VOMITORIA 'NANA' / DWARF YAUPON HOLLY	3 GAL.	POT	FULLY ROOTED
MYR CER	13	MYRICA CERIFERA / WAX MYRTLE	5 GAL.		MIN. HEIGHT 3'

GROUND COVERS	QTY	BOTANICAL / COMMON NAME	SIZE	CONTAINER	SPACING
ACH UMO	8	ACHILLEA X 'SASSY SUMMER LEMON' / SASSY SUMMER LEMON YARROW	4''	POT	24" o.c.
ASC TUB	28	ASCLEPIAS TUBEROSA / BUTTERFLY MILKWEED	4"	POT	18" o.c.
AST VPN	48	ASTILBE CHINENSIS 'VISION IN PINK' / VISION IN PINK CHINESE ASTILBE	4''	POT	18" o.c.
CAL KAR	60	CALAMAGROSTIS X ACUTIFLORA 'KARL FOERSTER' / KARL FOERSTER FEATHER REED GRASS	1 GAL.	POT	24" o.c.
CAR PYL	58	CAREX PENSYLVANICA / PENNSYLVANIA SEDGE	1 GAL.	POT	12" o.c.
MON DID	25	MONARDA DIDYMA / BEE BALM	4''	POT	18" o.c.
PAN CBZ	108	PANICUM VIRGATUM 'CAPE BREEZE' / CAPE BREEZE SWITCH GRASS	1 GAL.	POT	12" o.c.
PAN ARH	40	PANICUM VIRGATUM 'PURPLE TEARS' / PURPLE TEARS SWITCH GRASS	4''	POT	18" o.c.
PEN BU3	103	PENNISETUM ALOPECUROIDES 'BURGUNDY BUNNY' / BURGUNDY BUNNY DWARF FOUNTAIN GRASS	1 GAL.	POT	24" o.c.

STREETSCAPE LANDSCAPE DIMENSIONS (UDO 18-319)	REQUIRED	PROVIDED		
PROJECT IS IN UMX ZONING DISTRICT AND IS THEREFORE EXEMPT FROM STREETSCAPE REQUIREMENTS				
STREET TREES (UDO 18-204)	REQUIRED	PROVIDED		
WITHIN UMX ZONING, 1 STREET TREE PER 30 L	F OF STREET FRONTAGE			
GREENFIELD STREET (219.7') OVERHEAD POWERLINES EXIST	219.7 / 30 = 8 CANOPY TREES OR 12 UNDERSTORY TREES	12 UNDERSTORY TREES PROVIDED		
SOUTH 15TH STREET (396')	396 / 30 = 14 CANOPY TREES	14 CANOPY TREES		
MARTIN STREET (219.4')	219.4 / 30 = 8 CANOPY TREES	8 CANOPY TREES		
PARKING INTERIOR LANDSCAPING (UDO 18-321)	REQUIRED	PROVIDED		
tree islands	1 / 10 PARKING SPACES = 3	6		
CANOPY SHADING PERCENTAGE	13%	27.66%		
FOUNDATION PLANTINGS (18-490)	REQUIRED	PROVIDED		
area of building face adjacent to parking multiplied by 12%	152' X 24' = 3,648 SF 3,648 SF X 12% = 437.8SF	618 SF		

LANDSCAPE PLAN NOTES

WHERE APPLICABLE, TREE PROTECTION FENCE IS THE LIMITS OF DISTURBANCE REPRESENTED WITH LOD



THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

3 WORKING DAYS

FOR THE LOCATION OF UNDERGROUND FACILITIES

CONSTRUCTION SITE SAFETY IS THE SOLE RESPONSIBILITY OF THE **CONTRACTOR** NEITHER THE OWNER NOR THE ENGINEER SHALL BE EXPECTED TO ASSUME ANY RESPONSIBILITY FOR SAFETY OF THE WORK, OF PERSONS ENGAGED IN THE WORK, OF ANY NEARBY STRUCTURES, OR OF ANY OTHER PERSONS.



ARCHITECTURE PLANNING INTERIORS

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NOVANT HEALTH FAMILY MEDICAL CLINIC -**GREENFIELD**

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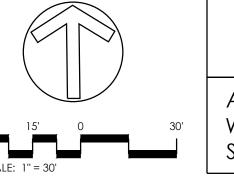
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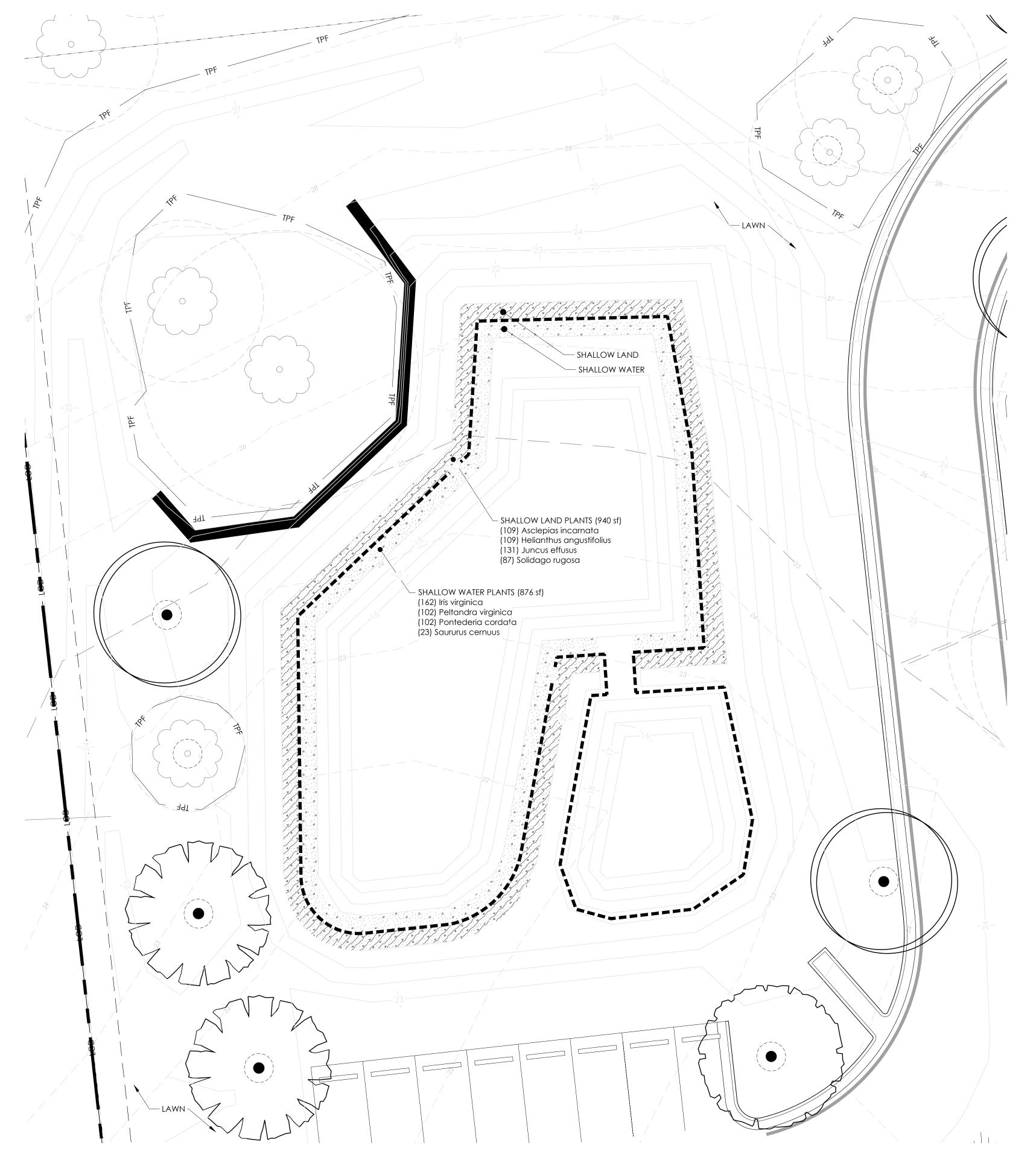
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LANDSCAPE PLAN

L. DICKSON

J. ADRIATICO PROJECT NUMBER 21-025





SCM LANDSCAPE PLAN

SCM PLANT SCHEDULE

SHALLOW LAND PLANTS ASCLEPIAS INCARNATA / SWAMP MILKWEED 109 4", POT 25% @ 18" oc HELIANTHUS ANGUSTIFOLIUS / SWAMP SUNFLOWER 109 4", POT 25% @ 18" oc JUNCUS EFFUSUS / COMMON RUSH 131 4", POT 30% @ 18" oc SOLIDAGO RUGOSA / WRINKLELEAF GOLDENROD 87 4", POT 20% @ 18" oc



SHALLOW WATER PLANTS 162 4", POT 40% @ 18" oc IRIS VIRGINICA / BLUE FLAG IRIS 4", POT 25% @ 18" oc 4", POT 25% @ 18" oc 4", POT 10% @ 24" oc 102 102 PELTANDRA VIRGINICA / ARROW ARUM PONTEDERIA CORDATA / PICKEREL WEED SAURURUS CERNUUS / LIZARD'S TAIL

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- 1. PLANTS LISTED IN SCHEDULE ABOVE ARE FOR THE PLANTS SHOWN ON THIS SHEET WITHIN THE SCM. FOR FULL PLANTING PLAN, SEE SHEET LP100.
- . BIO-RETENTION AREA TO BE MULCHED WITH 3" OF TRIPLE SHREDDED HARDWOOD MULCH. MULCH SHALL BE UNIFORMLY PLACED. 3. MULCH SHOULD BE FREE OF WEED SEEDS, SOIL, ROOTS, AND OTHER MATERIAL THAT IS NOT BOLE OR BRANCH WOOD OR BARK.
- 4. SEE CD400 FOR FURTHER INFORMATION REGARDING CONSTRUCTION OF SCM.



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WET POND LANDSCAPE REQUIREMENTS Required per NCDENR Stormwater MINIMUM REQUIRED PROVIDED **BMP Manual** Minimum three diverse species at a Shallow Land: 313.5 plants Shallow Land: 580 plants minimum density of 50 plants / 200 SF | Shallow Water: 356.5 plants | Shallow Water: 632 plants



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NOVANT HEALTH FAMILY MEDICAL CLINIC -

GREENFIELD 1423 GREENFIELD STREET, WILMINGTON, NC

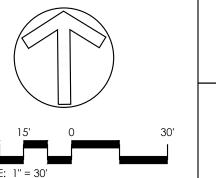
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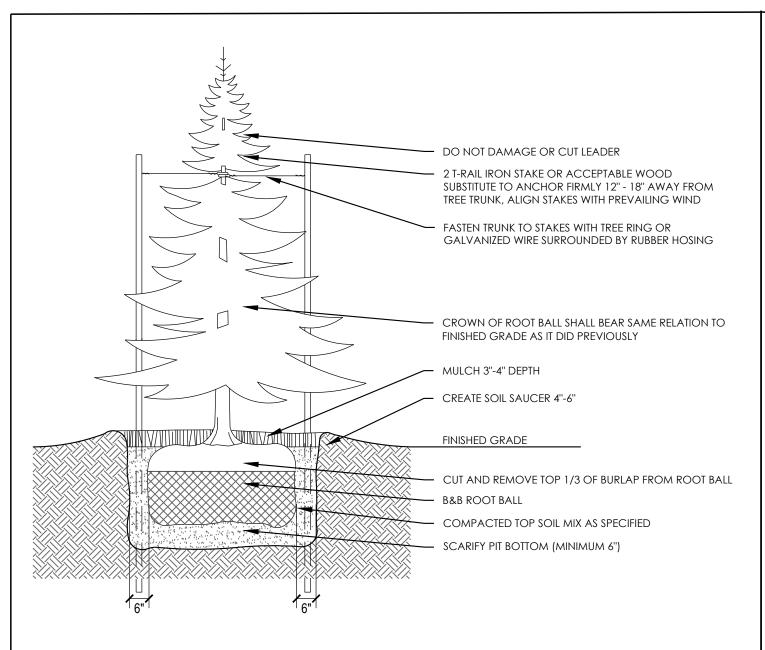
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SCM LANDSCAPE PLAN

L. DICKSON

J. ADRIATICO PROJECT NUMBER 21-025



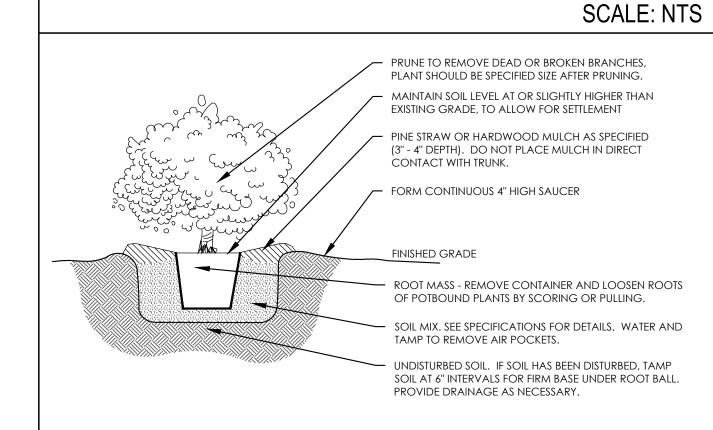


- 1. DO NOT DAMAGE ROOT BALL INSTALLING STAKES
- 2. WATER THOROUGHLY AFTER INSTALL
- 3. REMOVE TREE RINGS AND STAKES TWO YEARS OR AFTER ESTABLISHMENT IS CONFIRMED
- 4. PROVIDE DRAINAGE FOR PLANTING PIT IN IMPERMEABLE OR POORLY DRAINING SOIL

DO NOT PRUNE LEADER. PRUNE OR CUT ONLY DEAD OR UNHEALTHY BRANCHES PROVIDE STAKING IF SPECIFIED. IF STAKING IS PROVIDED, PROTECT TREE WITH BROAD STRAP OR FLEXIBLE TUBING. ALLOW FLEXIBILITY IN STRAPS TO DEVELOP TRUNK TAPER, PROVIDE TURN BUCKLE AND WARNING FLAGS, REMOVE ALL STAKING AND ACCESSORIES WITHIN ONE YEAR FROM PLANTING. THE ROOT FLARE SHALL BE PLANTED AT GRADE, NO HIGHER THAN 2" ABOVE GRADE, AND NEVER BELOW GRADE. REMOVE EXCESS SOIL TO EXPOSE THE ROOT FLARE AT GRADE. TREE SHALL BE SET PLUMB · MULCH DEPTH 3". KEEP MULCH 3" FROM ROOT FLARE AND DO NOT CONTACT HIGH QUALITY SOIL MIX AS SPECIFIED WATER SAUCER SHALL BE NO MORE THAN 3" ABOVE GRADE COMPLETELY REMOVE TOP HALF OF BURLAP, LACING AND WIRE BASKET AND DISCARD FROM HOLE ROOT BALL SHALL BE PLACED DIRECTLY ON COMPACTED SUBGRADE. HANDLE TREE BY THE ROOT BALL ONLY. ROOTBALL DIAMETER

- 1. CONTRACTOR IS RESPONSIBLE FOR ADEQUATE DRAINAGE OF ALL PLANTING PITS. (POSITIVE DRAINAGE AWAY FROM PIT)
- 2. STREET TREES MUST BE 3" CALIPER AT INSTALLATION WITH A 5' MINIMUM FIRST BRANCH HEIGHT.
- 3. PLANTING SEASON OCTOBER APRIL.
- 4. A TREE IMPACT PERMIT IS REQUIRED.
- 5. ELECTRICAL OUTLETS AND OTHER UTILITIES ARE PROHIBITED IN THE PLANTING AREA IMMEDIATELY SURROUNDING THE TREE.

TREE PLANTING DETAIL SCALE: NTS PLAN VIEW SPACING DIAGRAM:



ALL TECHNICAL SPECIFICATIONS AND GENERAL CONDITIONS APPLY.

- 2. REMOVE ALL TAGS, TWINE OR OTHER NON-BIODEGRADABLE MATERIALS ATTACHED TO PLANT OR ROOT MASS.
- 3. SOIL BACKFILL MIXTURE TO BE 1 PART GROUND PINE BARK TO 6 PARTS TOPSOIL PER SPECIFICATIONS.
- 4. PLANT ROOTBALL IN A PIT THAT IS 24" WIDER THAN THE ROOT BALL IN CLAY SOIL AND 12" WIDER THAN THE ROOT BALL IN SANDY SOIL.
- 5. FOR PLANTING AREAS WHERE SOIL HAS BEEN COMPACTED BY
- 6. SHRUBS SHALL BEAR SAME RELATIONSHIP TO GRADE AS THEY DID AT THE

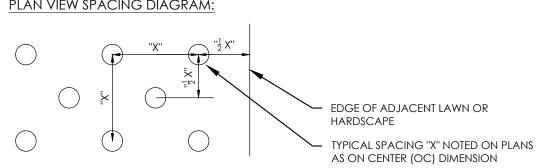
EQUIPMENT, CONTACT LANDSCAPE ARCHITECT PRIOR TO PLANTING.

- NURSERY PRIOR TO DIGGING.
- 7. PLANT PITS ARE ONLY FOR INDIVIDUAL PLANTS. FOR MASS PLANTINGS, PREPARE THE ENTIRE PLANT BED AREA.

SHRUB PLANTING SCALE: NTS

TREE PLANTING DETAIL

GROUNDCOVER PLANTING SCALE: NTS



SLOPE AWAY FROM BLDG. 2% OR GREATER PLANT SPACING PER PLAN — 3" MULCH INSTALLED BEFORE PLANTING 6" SOIL MIX. SEE SPECIFICATIONS FOR DETAILS - INCORPORATE SOIL MIX INTO TOP 6" OF UNDISTURBED SOIL AT A 1:1 RATIO UNDISTURBED SOIL

- ALL TECHNICAL SPECIFICATIONS AND GENERAL CONDITIONS APPLY.
- 2. LOOSEN ROOTS OF POTBOUND PLANTS BY SCORING OR PULLING.
- 3. REMOVE ALL TAGS, TWINE OR OTHER NON-BIODEGRADABLE MATERIALS ATTACHED TO PLANT OR

LANDSCAPE NOTES

- LOCATE ALL EXISTING UTILITIES PRIOR TO INSTALLATION OF PLANT MATERIAL. NOTIFY OWNER OF ANY DISCREPANCIES BETWEEN FIELD CONDITIONS AND THOSE SHOWN ON THE PLAN.
- VERIFICATION OF TOTAL QUANTITIES AS SHOWN ON THE PLANT LIST SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND THE TOTAL QUANTITIES SHALL BE AS SHOWN ON THE PLAN.
- ALL PLANT MATERIAL SHALL CONFORM WITH THE STANDARDS SET FORTH BY THE AMERICAN ASSOCIATION OF NURSERYMEN AND THE WRITTEN SPECIFICATIONS.
- ALL PLANT GROUPINGS SHALL BE MULCHED AS ONE BED. 3" OF DYED BROWN DOUBLE SHREDDED HARDWOOD MULCH SHALL BE USED AROUND
- ALL PLANTINGS. APPLY PRE-EMERGENT HERBICIDE TO ALL NEW PLANTING BEDS AT MANUFACTURER'S RECOMMENDED RATE PRIOR TO INSTALLATION OF
- MULCH. ESTABLISH POSITIVE DRAINAGE IN ALL PLANTING BEDS AND AWAY FROM
- DO NOT INSTALL PLANT MATERIAL IN IMPERVIOUS SOILS, (i.e. HOLES WHICH, WHEN FILLED WITH WATER, DO NOT COMPLETELY DRAIN WITHIN TWO HOURS.) SEE SPECIFICATIONS FOR TOPSOIL REQUIREMENTS.
- CONTACT THE LANDSCAPE ARCHITECT FOR INSPECTION 48 HOURS IN ADVANCE OF THE SCHEDULED SITE VISIT AND AT THE FOLLOWING INTERVALS:
- 8.1. REVIEW OF GRADING PRIOR TO PLANT INSTALLATION
- 8.2. REVIEW OF PLANT MATERIAL PRIOR TO INSTALLATION. 8.3. ONE SUBSTANTIAL COMPLETION MEETING FOR PLANT INSTALLATION.
- 8.4. ONE FINAL INSPECTION FOR ALL PLANTING OPERATIONS.
- PRIOR TO ANY CLEARING, GRADING, OR CONSTRUCTION ACTIVITY, TREE PROTECTION FENCING SHALL BE INSTALLED AROUND PROTECTED TREES. NO CONSTRUCTION WORKERS, TOOLS, MATERIALS, OR VEHICLES ARE PERMITTED WITHIN TREE PROTECTION FENCING.

SEEDBED PREPARATION NOTES:

- 1. CHISEL ALL CUT, GRADED, OR COMPACTED AREAS TO A MIN. DEPTH OF 8 INCHES.
- 2. DISC ALL AREAS TO RECEIVE GRASS TO A MIN. OF 8 INCHES. MIX AND AMEND WITH WELL SCREENED TOPSOIL.
- ON-SITE TOPSOIL MAY BE USED IN PLACE OF IMPORTED TOPSOIL, IF WELL-SCREENED AND DRY PRIOR TO APPLICATION IN ACCORDANCE WITH SPECIFICATIONS.
- REMOVE ALL LOOSE ROCKS, ROOTS, AND OTHER OBSTRUCTIONS LEAVING SURFACE REASONABLY SMOOTH AND UNIFORM.
- APPLY AGRICULTURAL LIME, FERTILIZER, AND PHOSPHATE UNIFORMLY AS
- PER SPECIFICATIONS AND MIX WELL WITH SOIL. CONTINUE TILLAGE UNTIL A WELL PULVERIZED, FIRM, REASONABLY
- UNIFORM SEEDBED IS PREPARED TO A DEPTH OF 6 INCHES. SEED AT A RATE SPECIFIED OR AS NEEDED TO ACHIEVE AND MAINTAIN A THICK HEALTHY GROUND COVERAGE. MULCH IMMEDIATELY AFTER SEEDING AND ANCHOR MULCH. BEGIN THOROUGH WATERING OF GRASSED AREAS IMMEDIATELY UPON INSTALLATION. DO NOT ALLOW SEEDED AREAS TO BECOME EXCESSIVELY DRY.
- 8. INSPECT ALL SEEDED AREAS AND MAKE NECESSARY REPAIRS OR RESEEDINGS AS NECESSARY.
- 9. IF CONFLICTS OCCUR BETWEEN WRITTEN SPECIFICATIONS AND THE DRAWINGS, THE WRITTEN SPECIFICATIONS PREVAIL.

- 10. THE TREE PROTECTION FENCE SHALL BE MAINTAINED ON THE SITE UNTIL ALL SITE WORK IS COMPLETED AND THE FINAL SITE INSPECTION PRIOR TO THE CERTIFICATE OF OCCUPANCY (CO) IS SCHEDULED. THE FENCING SHALL BE REMOVED PRIOR TO FINAL SITE INSPECTION FOR THE CO.
- 11. LANDSCAPE SUB-CONTRACTOR (UNDER GC CONTRACT) SHALL BE RESPONSIBLE FOR WATERING ALL PLANTS AT HIS COST FROM HIS OWN WATER SOURCE INCLUDING DURING PERIODS OF DROUGHT UNTIL THE PLANTS AND LAWN MEET FINAL COMPLETION. PLANT MATERIALS WHICH PERISH SHALL BE RE-ESTABLISHED BY THE CONTRACTOR AT NO EXPENSE TO
- 12. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING ALL EQUIPMENT & SUBCONTRACTORS AWAY FROM PLANTED AREAS. IF DAMAGE OCCURS, THROUGH NO FAULT OF THE OWNER, AREAS SHALL BE REGRADED AND REPAIRED IMMEDIATELY AT NO ADDITIONAL COST TO THE OWNER. CONTRACTOR SHALL WATER AND MAINTAIN THOSE AREAS UNTIL THEY ARE AT 95% COVERAGE AT FINAL COMPLETION.
- 13. SUBSTITUTIONS OF PLANT MATERIAL SHALL ONLY BE ACCEPTED 60 DAYS PRIOR TO COMMENCEMENT OF PLANTING OPERATIONS. SUBSTITUTION REQUESTS MUST BE IN WRITING AND WILL ONLY BE ACCEPTED FOR LACK OF AVAILABILITY REASONS WHICH CAN BE SUBSTANTIATED OR FOR SUPERIOR STOCK SUBSTITUTIONS.
- 14. IF CONFLICTS OCCUR BETWEEN WRITTEN SPECIFICATIONS AND THE DRAWINGS, THE WRITTEN SPECIFICATIONS SHALL PREVAIL.
- 15. ALL FOUNDATION SHRUBS AND TREES TO BE PLANTED A MINIMUM OF 5-FT FROM BUILDING WALL. NOTIFY LANDSCAPE ARCHITECT FOR ANY
- 16. MULCH LINE SMOOTH CONTINUOUS CURVES. CLEAR OUT FIRST 5-FT FROM DEBRIS AND UNDERBRUSH (TYP) AT AREAS OF EXISTING VEGETATION TO
- 17. ALL TREES NOT WITHIN A PLANT BED TO BE TREATED WITH A 6-FT DIAMETER MULCH RING (TYP).

LIME & FERTILIZATION SCHEDULE

THE OWNER.

APPLY LIME AND FERTILIZER ACCORDING TO SOIL TESTS, OR APPLY A MINIMUM 3 TONS/ACRE GROUND AGRICULTURAL LIMESTONE AND A MINIMUM 500 LB/ACRE 10-10-10 FERTILIZER, AS NEEDED TO ESTABLISH 95% COVERAGE (AS DETERMINED ON A PER SQUARE YARD BASIS) PRIOR TO SUBSTANTIAL COMPLETION. CONTRACTOR TO SUBMIT A COPY OF ALL SOIL REPORTS TO OWNER UPON RECEIPT.

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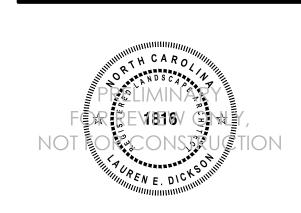
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LANDSCAPE NOTES SCALE: NTS



3 WORKING DAYS BEFORE YOU DIG FOR THE LOCATION OF UNDERGROUND FACILITIES Know what's below. Call before you dig.

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NOVANT HEALTH FAMILY MEDICAL CLINIC -**GREENFIELD**

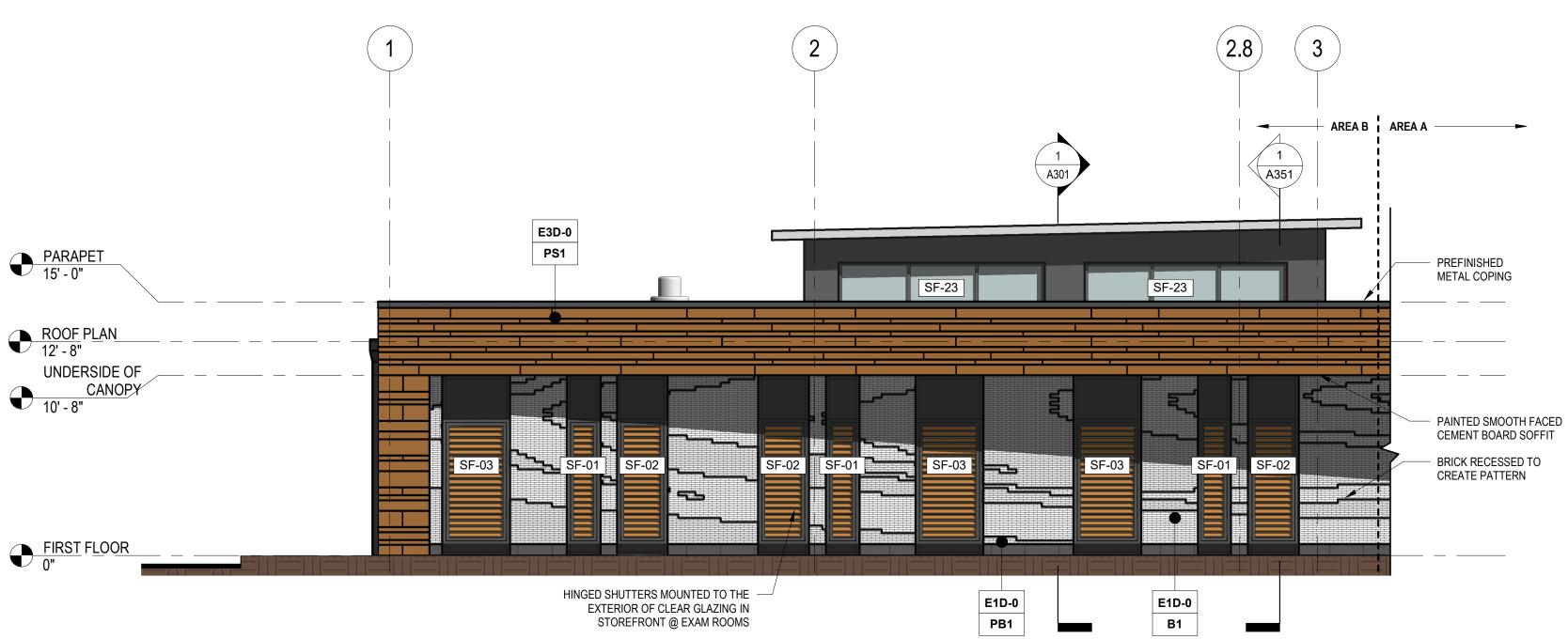
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LANDSCAPE DETAILS

L. DICKSON SHEET BY J. ADRIATICO PROJECT NUMBER 21-025



HINGED SHUTTERS MOUNTED TO THE EXTERIOR OF CLEAR GLAZING IN STOREFRONT @ EXAM ROOMS

SOUTH ELEVATION B

A203 SCALE: 3/16" = 1'-0"

R.E. = 1/A101

GREENFIELD ST ELEVATION

GREENFIELD ST ELEVATION

EXTERIOR COLOR LEGEND

B1 WHITE NORMAN BRICK - TBD

PB1 BLACK 8" POLISHED MASONRY BLOCK - TBD

PS1 WOOD GRAIN PHENOLIC SIDING - TBD

PAINT COLORS TO BE COORDINATED DURING CONSTRUCTION WITH ARCHITECT AND OWNER. COLORS TO BE SIMILAR TO WHAT WAS

APPROVED BY NCHFA.

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EXTERIOR SYMBOL LEGEND

WINDOW TAG (REFER TO A602 FOR WINDOW SIZES AND INFORMATION)

SEE DISCIPLINE SHEETS FOR DISCIPLINE SPECIFIC SYMBOLS

DOOR TAG

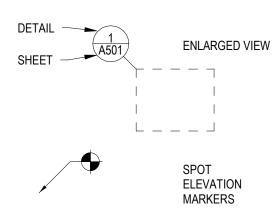
D.S. DOWNSPOUT LOCATION

CONTROL JOINT

CJ LOCATION

C CENTER LINE

DETAIL SECTION DETAIL



Name Elevation LEVEL MARKER

MBLY TYPE SEE A030 FOR ASSEMBL

E1-A0 EXTERIOR ASSEMBLY TYPE. SEE A030 FOR ASSEMBLY TYPES

P1 EXTERIOR FINISH COLOR. SEE COLOR LEGEND

ELEVATION NOTES

SEE DISCIPLINE SHEETS FOR DISCIPLINE SPECIFIC NOTES

- 1. ADDRESSING SIGNAGE TO BE LOCATED ON THE SIDE OF THE BUILDING FROM WHERE THE BUILDING IS ADDRESSED (ONE SIDE ONLY). PROVIDE BUILDING ADDRESS IN 6" HIGH LETTERS TO BE APPROVED BY FIRE MARSHALL. ADDRESS NUMBERS TO BE ILLUMINATED.
- FACE OF SLAB SHALL NOT BE EXPOSED AT SLOPED EXTERIOR PAVING CONDITIONS. COORDINATE EXT.
- 3. COORDINATE ALL DOWNSPOUT TIE-INS WITH CIVIL DRAWINGS. PROVIDE SPLASH BLOCKS FOR DOWNSPOUTS W/OUT TIE-INS.

PAVING CONDITIONS WITH CIVIL, TYP.

- 4. VERTICAL CONTROL JOINTS ARE ILLUSTRATED FOR REFERENCE PURPOSES IN BUILDING ELEVATIONS. CJ'S ARE RECOMMENDED WHERE TRANSITIONS IN BRICK HEIGHT OCCUR, AT THE CORNERS OF LARGE OPENINGS, ALL INSIDE CORNERS, WITHIN 10' OF OUTSIDE CORNERS AND A MAXIMUM OF 30' O.C. MASONRY CONTRACTOR TO PROVIDE HORIZONTAL AND VERTICAL EXPANSION JOINTS IN BRICKWORK PER TECHNICAL NOTES 18A AS PUBLISHED BY THE BRICK INDUSTRY ASSOCIATION.
- NO MASONRY CORE HOLES SHALL BE EXPOSED, TYP. CLOSURE (SOLID CORE) MASONRY SHALL BE USED WHERE CORE HOLES WOULD OTHERWISE BE EXPOSED TO ELEMENTS.
- 6. EXPOSED STEEL LINTELS AND BREAK METAL TO BE PAINTED TO MATCH ADJACENT SURFACE UNLESS OTHERWISE NOTES, TYP.
- 7. ALL PENETRATIONS, INCLUDING WINDOWS AND DOORS, SHALL BE SEALED TO THE BACKUP WALL AT THE PRIMARY MOISTURE BARRIER.
- 8. ALL EXTERIOR FIBER CEMENT SOFFITS TO BE PAINTED UNLESS NOTED OTHERWISE.
- 9. ALL CAULKING IS TO MATCH ADJACENT SURFACES.
- 10. PROVIDE SOLID BLOCKING WITHIN WALL CAVITY SEGMENTS BEHIND ALL EXTERIOR LIGHTS AND SIGNAGE.

NOVANT HEALTH FAMILY MEDICAL CLINIC GREENFIELD

1423 GREENFIELD STREET, WILMINGTON, NC 28401

No.	Description	Date
	·	

100%
CONSTRUCTION
DOCUMENTS

EXTERIOR ELEVATIONS

ISSUE DATE

10/28/2022

CHECKED

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AB
PROJECT NUMBER

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