SITE DATA
PROPERTY OWNER: GREENFIELD STREET PROPERTIES, LLC SOUTH FRONT, LLC EXISTING CONDITIONS & DEMOLITION PLAN PROJECT ADDRESS: 110 GREENFIELD STREET DB: 5510 PG: 1138 PIN NUMBER: R05417-014-003-000 PID: R05413-035-002-000 4 EROSION CONTROL, STORMWATER, & UTILITY PLAN ZONING DISTRICT: UMX ZONING: MF-H FLOOD AREA: THIS TRACT IS LOCATED IN ZONE "X" & "AE" ELEV. 9' ACCORDING TO THE FEDERAL EMERGENCY MANAGEMENT EROSION CONTROL & STORMWATER DETAIL SHEET LAND USE: MULTI-FAMILY RESIDENTIAL 6 DRAINAGE AREA MAP & STORMWATER DETAIL SHEET
7 ROOF DOWNSPOUT PIPING, SUBGRADE GRADING, & DRAINAGE AREA MAP AGENCY'S FLOOD INSURANCE RATE MAP, COMMUNITY-PANEL NUMBER 3720311700K, DATED: 6/2/2006 (PER BATEMAN SOUTH FRONT, LLC DB: 5510 PG: 1138 MAXIMUM ALLOWABLE BUILDING HEIGHT: 4 STORIES OR 45' (ALONG ARTERIAL STREETS), 35' OR 2 STORIES (ALONG RESIDENTIAL PID: R05413-035-002-000 & COLLECTOR STREETS) ZONING: MF-H MAXIMUM EXISTING BUILDING HEIGHT (AVG. EX. GROUND ELEV. TO HALFWAY BETWEEN HIGHEST PEAK & EAVE): 20+2.5+(10.81-5.81) LAND USE: MULTI-FAMILY RESIDENTIAL KIDDER GEO W HRS = 27.50' (BULDING #1; APPROX. PER GOOGLE EARTH) DB: 1252 PG: 1340 ADJACENT DRIVEWAYS, TRAFFIC SIGNALS, & DETAIL SHEET MAXIMUM PROPOSED BUILDING HEIGHT (AVG. EX. GROUND ELEV. TO ROOF ELEV.): 29+(11.7-9) = 31.70' (BUILDING #3) PID: R05417-001-001-000 SANITARY SEWER DETAIL SHEE BUILDING SETBACKS, REQUIRED: NONE ZONING: IND 14 SANITARY SEWER DETAIL S SITE AREA: 88,616 SF = 2.03 ACRES \pm LAND USE: UNUSED LAND 5 SANITARY SEWER DETAIL SHE NUMBER OF PROPOSED BUILDINGS: 2 SANITARY SEWER DETAIL SHE NUMBER OF EXISTING BUILDINGS: 3 (2 TO BE DEMOLISHED & 1 TO REMAIN) BUILDING SIZE (GROSS FLOOR AREA): 18 WATER DETAIL SHEE POST DEVELOPMENT SQUARE FOOTAGE FIRST POST DEVELOPMENT SITE-(66' PUBLIC R/W) STORY SECOND STORY SOUTH FRONT BLOCK, LLC 2,500 (RESTAURANT) & 1,140 (RETAIL) 2,770 (OFFICE) DB: 5964 PG: 504 PID: R05417-013-004-000 3,764 (RETAIL) 2,894 (OFFICE) ZONING: UMX ELEV.=10.90' N/F NAVD '88 RICKS DUSTIN L TOTAL AMOUNT & PERCENT OF IMPERVIOUS SURFACE AREAS ON-SITE (REPLACEMENT OF EXISTING PARKING AREAS DUE TO LAND USE: MIXED USE STORM DRAIN PIPE SYSTEM & UTILITIES INSTALLATION REMAIN LISTED/TREATED AS EXISTING, NOT PROPOSED): DB: 5795 PG: 2733 VICINITY MAP PID: R05417-014-002-000 ZONING: LI 1. BOUNDARY & TOPOGRAPHICAL SURVEY PROVIDED BY BATEMAN CIVIL SURVEY COMPANY, PC (MAP TITLED 'SURVEY EXCLUSIVELY FOR TRIBUTE INVESTMENT & LAND USE: NEIGHBORHOOD DEVELOPMENT, INC. OF TRACT 2, TBD PROPERTIES, LLC' WITH SEAL DATE OF 1/28/16 & MAP TITLED 'TOPOGRAPHIC SURVEY EXCLUSIVELY FOR GREENVILLE STREET RETAIL PARKING-PERVIOUS (AFTER PROPERTIES, LLC' WITH SEAL DATE OF 12/14/16). 0 0 100% CREDIT REDUCTION) 2. ALL FLEVATIONS ARE IN FEFT UNLESS OTHERWISE INDICATED 2,396 3. ALL CITY, STATE, & FEDERAL REGULATIONS SHALL BE FOLLOWED. OTHER (RAMP, WALL, ETC.) 265 6,928 4. EXISTING SANITARY SEWER MAINS ARE OWNED BY CFPUA. 5. EXISTING WATER MAINS ARE OWNED BY CFPUA. 0 888 29,881 22,481 . SLOPE ON HANDICAP SPACES SHALL BE 1:50 OR FLATTER 7. TACTILE WARNING MATS ARE TO BE INSTALLED ON ALL WHEELCHAIR RAMPS. *711 SF DESIGNED TO DRAIN TO PERMEABLE PAVEMENT SYSTEM #1 8. IT IS THE APPLICANT'S/DEVELOPER'S RESPONSIBILITY TO BE COMPLIANT WITH ALL APPLICABLE ADA REQUIREMENTS. TOTAL AMOUNT & PERCENT OF IMPERVIOUS SURFACE AREAS ON-SITE WITHIN AREA CLASSIFIED AS CONSERVATION (78,477 SF) 9. LIMITS OF DISTURBANCE = 77,322 SF = 1.78 ACRES. PER THE CAMA LAND USE PLAN (REPLACEMENT OF EXISTING PARKING AREAS DUE TO STORM DRAIN PIPE SYSTEM & 10. DISTURBED AREAS WITHIN RIGHTS-OF-WAY OF SOUTH FRONT STREET, SOUTH SECOND STREET, AND/OR GREENFIELD STREET, SHALL BE IMMEDIATELY SEEDED & N84'23'00"E 82.00' UTILITIES INSTALLATION REMAIN LISTED/TREATED AS EXISTING, NOT PROPOSED): STABILIZED WITH MULCH OR EXCELSIOR MAT PRIOR TO ANY RAINFALL EVENT. 11. UPON COMPLETION OF ANY PHASE OF ACTIVITY SIDE SLOPES WILL BE SEEDED/STABILIZED IN ACCORDANCE WITH THE GROUND STABILIZATION CHART. BEFORE DEVELOPMEN 12. RAISED PATIO(S), STEPS/STAIRS, RAMPS, HANDRAILS, WALLS, & RETAINING WALLS SHALL BE DESIGNED BY OTHERS. MALPASS ENGINEERING & SURVEYING, P.C. IS NOT RESPONSIBLE FOR DESIGN OF RAISED PATIO(S), STEPS/STAIRS, RAMPS, HANDRAILS, WALLS, & RETAINING WALLS. 4,611 13. ALL DEVELOPMENT SHALL BE IN ACCORDANCE WITH THE CITY OF WILMINGTON LAND DEVELOPMENT CODE & TECHNICAL STANDARDS MANUAL, EXCEPT WHERE PARKING EXEMPTED OR VARIANCES ARE OBTAINED. PARKING-PERVIOUS (AFTER
 OTHER
 14,986
 19.10

 TOTAL
 55,284
 70.45
 14. THE PROPOSED CURB ON THE SITE IS VERTICAL CURB (SD 3-11), EXCEPT WHERE LABELED AS 4" VERTICAL CURB, AND HEADER CURB (SD 3-11). THE 4" VERTICAL CURB SHALL BE VERTICAL CURB (SD 3-11) WITH THE TOP OF THE CURB ONLY 4" ABOVE THE PAVEMENT. CREDIT REDUCTION) 1,895 4,014 888
 SIDEWALK (RAMPS, PATIOS)
 0
 1,895

 OTHER (RAMP, WALL, ETC.)
 245
 3,769

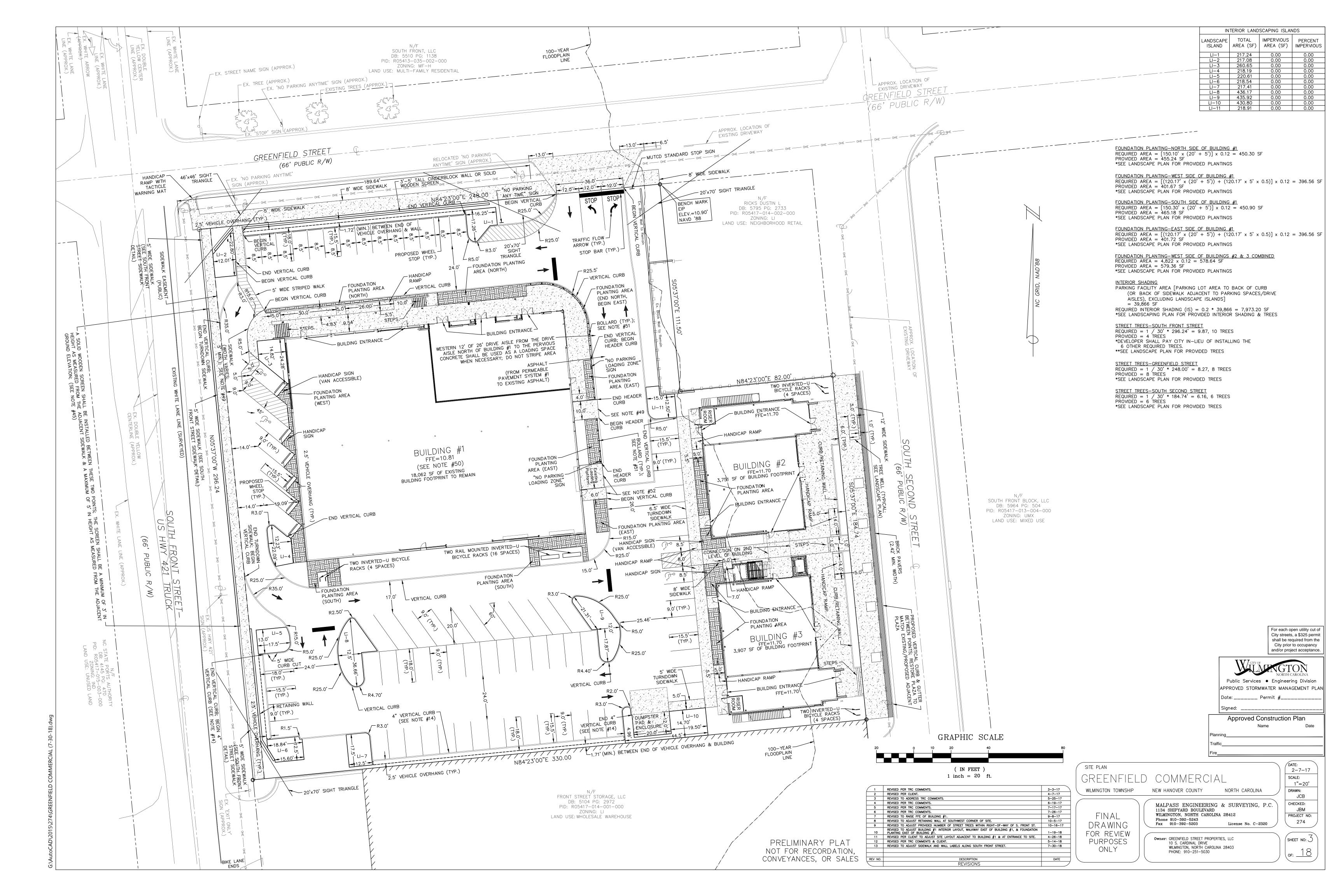
 *FUTURE
 0
 888
 15. MANHOLES, CATCH BASINS, & DROP INLETS SHALL BE SIZED APPROPRIATELY TO ACCOMMODATE OVERSIZED PIPES. 0 888 888 29,861 14,565 44,426 16. REMOVE EXISTING MIXED/COMPACTED FILL MATERIAL THAT SHOW POTENTIAL COMPACTION DOWN TO THE NATURAL SOIL SURFACE (APPROXIMATELY 18") & BACKFILL AS NECESSARY WITH A CLEAN SOIL GROUP I SAND (10 INCHES/HOUR OR GREATER PERMEABILITY RATE) TO THE PROPOSED SUBGRADE ELEVATION PER THE JANUARY 23, 2017 SOILS REPORT BY APPLIED RESOURCE MANAGEMENT, P.C. SEE THE SOILS REPORT FOR MAP (FIGURE 1) OF AREA TO BE EXCAVATED AND TOTAL PROPOSED IMPERVIOUS AREAS OFF-SITE (INCLUDES FRONTAGE SIDEWALK ON-SITE): BACKFILLED. RECOMMENDATIONS IN THE REPORT ARE TO BE FOLLOWED. AREA (SF)
DRIVEWAY/CURB 1,117
SIDEWALK 5,748
TOTAL 6,865 17. ALL PLANTED & RETAINED LIVING MATERIAL REQUIRED TO MEET THE PROVISIONS OF THE CITY OF WILMINGTON LAND DEVELOPMENT CODE, SHALL BE PERPETUALLY PROTECTED & MAINTAINED TO PROFESSIONALLY ACCEPTED STANDARDS BY JOINT & SEVERAL RESPONSIBILITY OF THE OWNER, OCCUPANT, TENANT, & RESPECTIVE AGENTS OF THE PROPERTY ON WHICH THE MATERIAL IS LOCATED. H FRONT HWY 421 18. CONTRACTOR SHALL CONTACT & COORDINATE WITH POWER COMPANY REGARDING REMOVAL OF EXISTING ON-SITE POWER POLES, AND INSTALLATION OF PROPOSED UTILITIES, STORM DRAIN, & SWALE NEAR EXISTING POWER POLES. OFF STREET PARKING CALCULATIONS: 19. ALL PROPOSED VEGETATION WITHIN THE SIGHT TRIANGLES SHALL NOT INTERFERE WITH CLEAR VISUAL SIGHT LINES FROM 30"-10'. MIN. PARKING REQ. = N/A20. EXTERIOR SITE LIGHTING TO BE LOCATED/DESIGNED BY OTHERS. EXTERIOR SITE LIGHTING SHALL MEET THE CITY OF WILMINGTON'S UMX STANDARD FOR SITE STREE MAX. PARKING ALLOWED = 1 SPACE / 200 SF x 5,664 SF (OFFICES) + 1 SPACE / 1,000 SF x 14,926 SF (BREWERY) + 1 LIGHTING, WHICH IS AS FOLLOWS: "ALL SITE LIGHTING SHALL BE LOCATED, ANGLED, SHIELDED, AND/OR LIMITED IN INTENSITY SO AS TO CAST NO DIRECT LIGHT SPACE / 65 SF x 0.6 x 5,570 SF (RESTAURANT-ASSUME KITCHEN & RESTROOM FACILITIES ARE 40% OF AREA) + 1 SPACE UPON ADJACENT PROPERTIES, SHALL MINIMIZE OFF-SITE BACKLIGHTING GLARE, AND UP-LIGHTING. LIGHT POSTS SHALL BE NO TALLER THAN TWELVE (12) FEET." / 200 SF x 4,904 SF (RETAIL) = 119 SPACESALSO, SITE LIGHTING SHALL NOT DIRECTLY BE DIRECTED AT A RIGHT-OF-WAY. NUMBER OF PROPOSED PARKING SPACES = 81 CONTRACTOR TO NOTIFY ENGINEER OF ANY CONFLICTS BETWEEN EXISTING UTILITIES & PROPOSED UTILITIES. MIN. NUMBER OF REQ. HANDICAPPED SPACES PER ADA STANDARDS FOR ACCESSIBLE DESIGN = 4 22. CONTRACTOR SHALL ENSURE UTILITY SEPARATION NOTES ARE MET. NC STATE PORTS AUTHORITY BUILDING #3 NUMBER OF PROPOSED HANDICAPPED SPACES = 4 23. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH & OBTAINING NECESSARY RIGHT-OF-WAY PERMITS (STREET CUT, STREET/LANE CLOSURE, SIDEWALK DB: 4145 PG: 470 NUMBER OF REQ. BICYCLE PARKING SPACES = 1 SPACE / 5,000 SF x 5,664, OR 2 SPACES, WHICHEVER IS GREATER (OFFICES) CLOSURE, ETC.) FROM THE CITY OF WILMINGTON FOR WORK WITHIN THEIR RIGHTS-OF-WAY. PID: R05417-015-003-000 + 1 SPACE / 1,000 SF x 25,400, OR 5 SPACES, WHICHEVER IS GREATER (COMMERCIAL/RETAIL) = 27 ZONING: IND NUMBER OF PROPOSED BICYCLE PARKING SPACES = 28 25. A LANDSCAPING PLAN INDICATING THE LOCATION OF REQUIRED STREET TREES SHALL BE SUBMITTED TO THE CITY OF WILMINGTON TRAFFIC ENGINEERING DIVISION LAND USE: UNUSED LAND REQUIRED NUMBER OF LOADING SPACES = 1 AND PARKS & RECREATION DEPARTMENT FOR REVIEW & APPROVAL PRIOR TO THE RECORDING OF THE FINAL PLAT. PROVIDED NUMBER OF LOADING SPACES = 1 26. ALL PROPOSED ON-SITE UTILITY LINES SHALL BE UNDERGROUND. THIS SITE IS NOT WITHIN A SPECIAL HIGHWAY OVERLAY DISTRICT OR ANY OTHER ZONING OVERLAY DISTRICT PER THE CITY OF 27. LOCATION OF ANY SITE LIGHTS, ELECTRIC LINES, TELEPHONE LINES, AND/OR NATURAL GAS LINES TO BE DETERMINED BY UTILITY COMPANIES AND/OR OTHERS. WILMINGTON ZONING MAP (MAP 3117-4, DATED: OCTOBER 27, 2015) 28. THE 2.5' VEHICLE OVERHANG AREA SHALL NOT BE PLANTED WITH SHRUBS. CAMA LAND USE CLASSIFICATION PER THE 2006 CAMA PLAN UPDATE LAND CLASSIFICATION MAP IS URBAN & CONSERVATION. 29. SILT SACKS SHALL BE INSTALLED IN EXISTING DROP INLETS ON THE SITE. SILT SACKS ARE TEMPORARY EROSION CONTROL DEVICES & SHALL BE REMOVED FROM AN INLET WHEN THE ENTIRE AREA DRAINING TO THE INLET IS STABILIZED. 30. CONTRACTOR TO REPAIR ANY DISTURBED AREAS (ASPHALT, STONE, CURB, SIDEWALK, GRASS PLAZA, ETC.) WITHIN SOUTH FRONT ST, GREENFIELD ST, OR SOUTH CITY OF WILMINGTON STANDARD NOTES

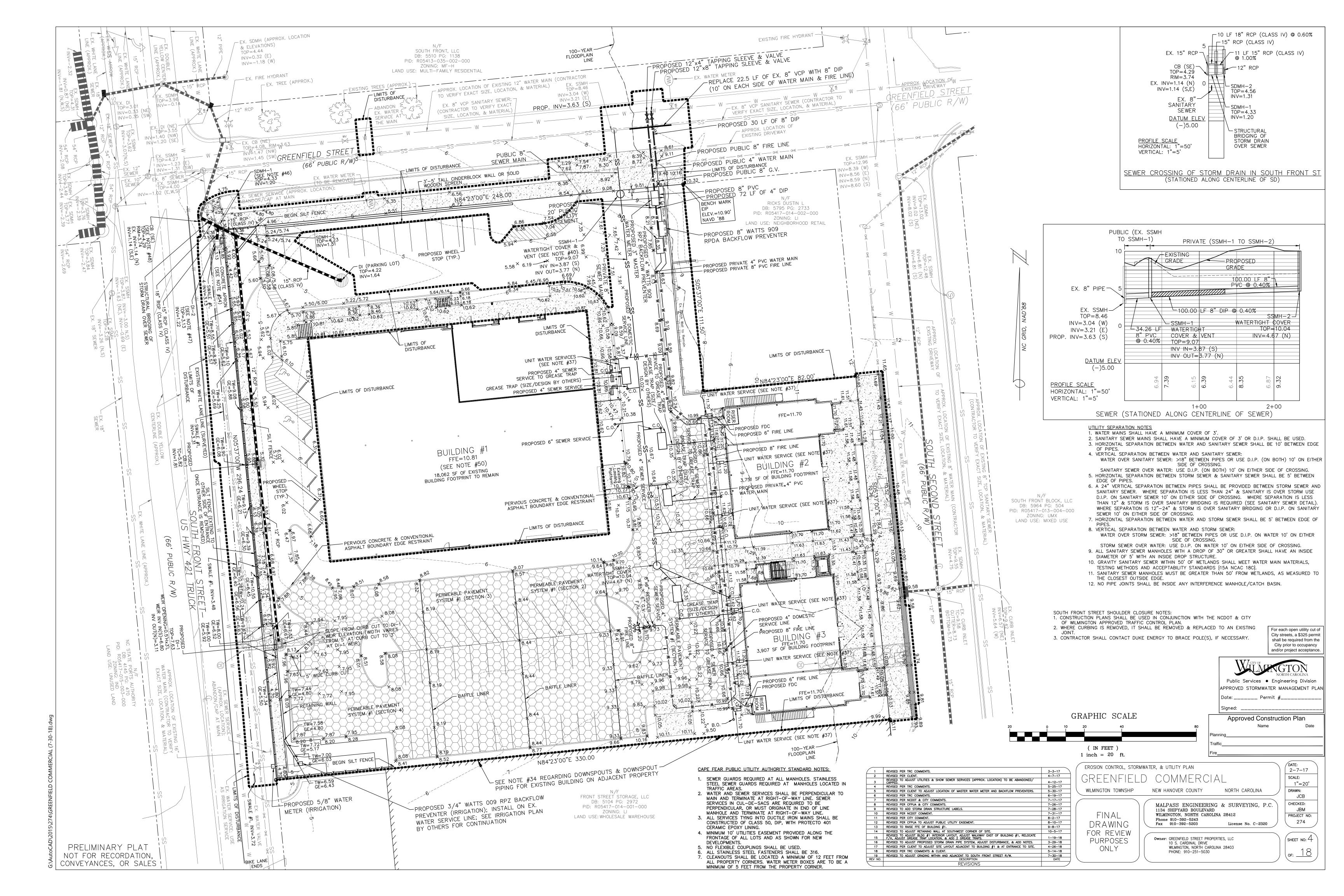
1. PRIOR TO ANY CLEARING, GRADING OR CONSTRUCTION ACTIVITY, TREE PROTECTION FENCING WILL BE INSTALLED AROUND

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1. PRIOR TO ANY CLEARING, GRADING OR CONSTRUCTION ACTIVITY, TREE PROTECTION FENCING WILL BE INSTALLED AROUND SECOND ST TO PRE-CONSTRUCTION CONDITIONS OR BETTER. 31. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AN UNDERGROUND FIRE LINE PERMIT FROM THE CITY OF WILMINGTON (FIRE & LIFE SAFETY) PRIOR TO PROTECTED TREES OR GROVES OF TREES AND NO CONSTRUCTION WORKERS, TOOLS, MATERIALS, OR VEHICLES ARE PERMITTED INSTALLING FIRE LINE(S) 32. AN IN-LINE DOWNSPOUT FILTER MUST BE INSTALLED ON EVERY ROOF DOWNSPOUT THAT DRAINS TO PERMEABLE PAVEMENT SYSTEM #1. EACH IN-LINE . NO LAND DISTURBANCE INCLUDING TREE REMOVAL IS TO OCCUR OUTSIDE THE LIMITS OF DISTURBANCE SHOWN ON THE PLANS. DOWNSPOUT FILTER SHALL BE LOCATED IN AN AREA THAT ALLOWS FOR INSPECTION. FRONT STREET STORAGE, LLC 3. NO EQUIPMENT IS ALLOWED ON THE SITE UNTIL ALL TREE PROTECTION FENCING AND SILT FENCING HAS BEEN INSTALLED AND DB: 5104 PG: 2972 34. CONTRACTOR AND/OR DEVELOPER SHALL ENSURE THAT THE DOWNSPOUTS & DOWNSPOUT PIPING ON THE NORTH SIDE OF THE ADJACENT EXISTING BUILDING (MINI PID: R05417-014-001-000 4. PROTECTIVE TREE FENCING IS TO BE MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT. STORAGE BUILDING) ALONG THE SITE'S SOUTHERN PROPERTY LINE ARE ALL CONNECTED AND FUNCTIONING. IF REPAIR IS NEEDED, EITHER THE DEVELOPER SHALL ZONING: LI 5. LAND CLEARING AND CONSTRUCTION CONTRACTORS SHALL RECEIVE ADEQUATE INSTRUCTION ON TREE PROTECTION REQUIREMENTS LAND USE: WHOLESALE WAREHOUSE GET THE ADJACENT PROPERTY OWNER TO REPAIR IT. OR THE CONTRACTOR SHALL REPAIR IT. RUNOFF FROM THE ADJACENT BUILDING SHALL NOT BE ALLOWED TO DRAIN TO PERMEABLE PAVEMENT SYSTEM #1. IF NECESSARY, CONTRACTOR SHALL RELOCATE EXISTING DOWNSPOUT PIPING ALONG THE NORTH SIDE OF THE . ALL PAVEMENT MARKINGS IN PUBLIC RIGHTS-OF-WAY AND FOR DRIVEWAYS ARE TO BE THERMOPLASTIC AND MEET CITY AND/OR ADJACENT BUILDING TO AVOID CONFLICTS WITH PROPOSED UTILITIES, ROOF DOWNSPOUT PIPING FOR BUILDING #3, DUMPSTER PAD & ENCLOSURE, AND/OR NCDOT STANDARDS. PERMEABLE PAVEMENT SYSTEM #1 IT SHALL BE THE RESPONSIBILITY OF THE SUBDIVIDER TO ERECT OFFICIAL STREET NAME SIGNS AT ALL INTERSECTIONS 35. WATER METER, BACKFLOW PREVËNTER, VALVE, & FIRE HYDRANT SYMBOLS ARE SYMBOLIC & NOT ACTUAL SIZE. ASSOCIATED WITH THE SUBDIVISION IN ACCORDANCE WITH THE TECHNICAL STANDARDS AND SPECIFICATIONS MANUAL. 36. DOMESTIC WATER MAIN SHALL BE PUBLIC FROM THE EXISTING WATER MAIN IN GREENFIELD ST. THROUGH THE MASTER WATER METER & PRIVATE AFTER THE METER. CONTACT TRAFFIC ENGINEERING AT 341-7888 TO DISCUSS INSTALLATION OF TRAFFIC AND STREET NAME SIGNS. PROPOSED FIRE LINE SHALL BE PUBLIC FROM THE EXISTING WATER MAIN IN GREENFIELD ST. TO THE 8" GATE VALVE AT THE R/W & PRIVATE BEGINNING AFTER THE VALVE. STREET NAMES MUST BE APPROVED PRIOR TO INSTALLATION OF STREET NAME SIGNS. 37. A SEPARATE WATER SERVICE SHALL BE PROVIDED FROM THE PROPOSED PRIVATE WATER MAIN TO EACH UNIT IN BUILDINGS #2 & 3 AS SHOWN ON THE UTILITY B. TRAFFIC CONTROL DEVICES (INCLUDING SIGNS AND PAVEMENT MARKINGS) IN AREAS OPEN TO PUBLIC TRAFFIC ARE TO MEET PLAN. A SEPARATE WATER SERVICE FOR EACH UNIT IN BUILDING #1 SHALL BE PROVIDED OFF THE PROPOSED 4" DOMESTIC SERVICE LINE. WATER SERVICE LINE MUTCD (MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES) STANDARDS. SIZE, WATER METER SIZE, & BACKFLOW PREVENTER SIZE (IF REQUIRED AND/OR PROVIDED) FOR EACH UNIT'S WATER SERVICE PER MECHANICAL PLANS. 9. CALL TRAFFIC ENGINEERING AT 341—7888 TO ENSURE THAT ALL TRAFFIC SIGNAL FACILITIES AND EQUIPMENT ARE SHOWN ON THE 38. CONTRACTOR TO COORDINATE LOCATION OF BUILDING/UNIT WATER & SEWER SERVICES WITH MECHANICAL PLANS. PLAN. CALL TRAFFIC ENGINEERING AT 341-7888 FORTY-EIGHT HOURS PRIOR TO ANY EXCAVATION IN THE RIGHT OF WAY. 39. SANITARY SEWER MAIN SHALL BE PUBLIC FROM EX. SSMH TO SSMH-1 AND PRIVATE FROM SSMH-1 TO SSMH-2. 10. ANY BROKEN OR MISSING SIDEWALK PANELS, DRIVEWAY APRON PANELS, OR CURB AND GUTTER SECTIONS SHALL BE REPLACED. 40. THE VENT FROM SSMH-1 SHALL BE LOCATED A MINIMUM OF 3 FEET BEYOND THE PROPOSED EDGE OF PAVEMENT ON THE WEST SIDE OF THE DRIVEWAY. 1. CONTACT TRAFFIC ENGINEERING AT 341-7888 TO DISCUSS STREET LIGHTING OPTIONS. 41. DUMPSTER ENCLOSURE DESIGN/DETAILS ON SHEET 9 PER ORA ARCHITECTURE ARE SHOWN FOR REFERENCE PURPOSES ONLY. CONTRACTOR SHALL USE ORA 12. PROJECT SHALL COMPLY WITH CFPUA CROSS CONNECTION CONTROL REQUIREMENTS. WATER METER(S) CANNOT BE RELEASED UNTIL ARCHITECTURE PLANS TO CONSTRUCT DUMPSTER PAD & ENCLOSURE. MALPASS ENGINEERING & SURVEYING, P.C. IS NOT RESPONSIBLE FOR DUMPSTER ENCLOSURE ALL REQUIREMENTS ARE MET AND THE STATE HAS GIVEN THEIR FINAL APPROVAL. CALL 332-6558 FOR INFORMATION. WILLARD STREE (66' PUBLIC R/W) 13. IF THE CONTRACTOR DESIRES CFPUA WATER FOR CONSTRUCTION HE SHALL APPLY IN ADVANCE FOR THIS SERVICE & MUST 42. THE PROPOSED MAINTENANCE/ACCESS EASEMENT SHOWN ON SHEET 6 FOR PERMEABLE PAVEMENT SYSTEM #1 SHALL BE GRANTED IN FAVOR OF THE CITY OF PROVIDE A REDUCED PRESSURE ZONE (RPZ) BACKFLOW PREVENTION DEVICE ON THE DEVELOPER'S SIDE OF THE WATER METER WILMINGTON FOR STORMWATER ENFORCEMENT. LEGEND (EXISTING) - 43. THE DEVELOPER SHALL HAVE THE PERMEABLE PAVEMENT OPERATION & MAINTENANCE AGREEMENT IT ENTERED INTO WITH THE CITY OF WILMINGTON RECORDED 14. ANY IRRIGATION SYSTEM SUPPLIED BY CFPUA WATER SHALL COMPLY WITH THE CFPUA CROSS CONNECTION CONTROL REGULATIONS. WITH THE COUNTY REGISTER OF DEEDS SO AS TO APPEAR IN THE CHAIN OF TITLE OF ALL SUBSEQUENT PURCHASERS. PERMEABLE PAVEMENT SYSTEM #1 SHALL CALL 332-6558 FOR INFORMATION. LEGEND (PROPOSED) O CALCULATED POINT BE MAINTAINED IN ACCORDANCE WITH THE PERMEABLE PAVEMENT OPERATION & MAINTENANCE AGREEMENT. TRASH/DEBRIS (INCLUDING VEGETATIVE DEBRIS) AND 15. ANY BACKFLOW PREVENTION DEVICES REQUIRED BY CFPUA WILL NEED TO BE ON THE LIST OF APPROVED DEVICES BY SEDIMENT SHALL BE REMOVED FROM THE SURFACE OF THE PERVIOUS CONCRETE IN ORDER TO PREVENT CLOGGING OF THE SYSTEM. • IRON PIPE FOUND USCFCCCHR OR ASSE. ---- PROPOSED ASPHALT SAW CUT LINE 44. HVAC EQUIPMENT SHALL BE LOCATED ON THE ROOF OF THE BUILDINGS BEHIND PARAPET WALLS PER ORA ARCHITECTURE. 16. ALL TRAFFIC CONTROL SIGNS & MARKINGS OFF THE RIGHT-OF-WAY ARE TO BE MAINTAINED BY THE PROPERTY OWNER IN ● IRON PIPE SET PROPOSED LIMITS OF DISTURBANCE 45. SOLID WOODEN SCREEN MAY BE EXTENDED TO THE NORTH AND SOUTH ALONG SOUTH FRONT STREET SIDEWALK, BUT IT MUST STOP PRIOR TO THE SITE DISTANCE ACCORDANCE WITH MUTCD STANDARDS. EXISTING CURB INLET 17. ALL PAVEMENT MARKINGS REGULATING TRAFFIC FLOW MUST BE THERMOPLASTIC. 46. SDMH-1 SHALL BE NCDOT STD 840.31 OR 840.32. ADJUST VERTICAL DIMENSIONS BASED ON PROPOSED TOP & INVERT GRADES. 18. A UTILITY CUT PERMIT IS REQUIRED FOR EACH OPEN CUT OF A CITY STREET (CONTACT 341-5888 FOR MORE DETAILS). IN ■ EXISTING DROP INLET 47. DI-2 SHALL BE NCDOT STD 840.35. ADJUST VERTICAL DIMENSIONS BASED ON PROPOSED TOP & INVERT GRADES. ---- PROPOSED EASEMENT CERTAIN CASES, AN ENTIRE RESURFACING OF THE AREA BEING OPEN CUT MAY BE REQUIRED. 48. CONTRACTOR TO ENLARGE CB (SE) TOWARDS THE EAST, IF NECESSARY, IN ORDER TO INSTALL PROPOSED 18" RCP. WM EXISTING WATER METER 19. TRAFFIC ENGINEERING MUST APPROVE OF PAVEMENT MARKING LAYOUT PRIOR TO ACTUAL STRIPING --- PROPOSED CONTOUR 49. SIDEWALK PAVING SHALL BE FLUSH WITH DRIVE AISLE. 20. A LANDSCAPING PLAN INDICATING THE LOCATION OF REQUIRED STREET TREES SHALL BE SUBMITTED TO THE CITY OF WILMINGTON 50. ALL GRADES, INCLUDING BUILDING #1 FINISHED FLOOR ELEVATION OF 10.81' SHOWN ON THE PLAN, ARE BASED ON A BENCHMARK ON THE SITE. THE ACTUAL TRAFFIC ENGINEERING DIVISION AND PARKS AND RECREATION DEPARTMENT FOR REVIEW AND APPROVAL PRIOR TO THE RECORDING M EXISTING WATER VALVE FINISHED FLOOR ELEVATION OF BUILDING #1 IS 11.0' BASED ON AN ELEVATION CERTIFICATE BY ARNOLD CARSON OF BATEMAN CIVIL SURVEY COMPANY, PC. OF THE FINAL PLAT. PROPOSED CONSTRUCTION ENTRANCE EXISTING FIRE HYDRANT 51. BOLLARDS NEAR NORTHEAST CORNER OF BUILDING #1 AND EAST OF BUILDING #1 SHALL BE 6" DIAMETER PIPE BOLLARDS. BOLLARDS NEAR NORTHEAST CORNER 21. CONTACT THE NORTH CAROLINA ONE CALL CENTER PRIOR TO DOING ANY DIGGING. 1-800-632-4949. OF BUILDING #1 SHALL BE SPACED APPROXIMATELY 6' ON CENTER. 2. ALL PARKING STALL MARKINGS AND LANE ARROWS WITHIN THE PARKING AREAS SHALL BE WHITE. EXISTING LIGHT POLE 52. DRIVE AISLE SHALL BE A MAXIMUM OF 0.02' BELOW GRADE OF EXISTING LOADING PLATFORM AND PROPOSED SIDEWALK ADJACENT TO THE EXISTING LOADING 23. INSTALL REFLECTORS PER CITY AND NCDOT STANDARDS. 9.50 x PROPOSED SPOT ELEVATION PLATFORM AS INDICATED ON THE GRADING PLAN. EXISTING POWER POLE 53. ALL AREAS (SIDEWALK, PATIO, LANDSCAPING, ETC.) ADJACENT TO BUILDINGS SHALL BE GRADED TO DRAIN AWAY FROM BUILDINGS. SITE INVENTORY NOTES PROPOSED SIDEWALK OR CONCRETE 54. CONCRETE APRON ADJACENT TO DI-2 IN SOUTH FRONT STREET R/W SHALL BE 4" THICK WITH A MAXIMUM SLOPE OF 1:1. SEALANT MEETING NCDOT . SOIL ON SITE PER THE NEW HANOVER COUNTY SOIL SURVEY IS URBAN LAND (Ur) REQUIREMENTS SHALL BE PROVIDED BETWEEN CONCRETE APRON AND DI-2 STRUCTURE. PROPOSED STORM DRAIN THERE ARE NO CAMA AECS WITHIN THE BOUNDARIES OF THE SUBJECT SITE PER SOUTHERN ENVIRONMENTAL GROUP, INC. 55. HANDRAIL TO BE INSTALLED, IF REQUIRED OR NECESSARY, ADJACENT TO WEST SIDE OF SOUTH FRONT STREET SIDEWALK THERE ARE NO KNOWN CONSERVATION RESOURCES WITHIN OR ADJACENT TO THE SUBJECT SITE PER SOUTHERN ---- --- --- --- --- ADJACENT PROPERTY LINE \square PROPOSED DROP INLET (DI) ENVIRONMENTAL GROUP, INC. ACCORDING TO THE NORTH CAROLINA STATE HISTORIC PRESERVATION OFFICE HPOWEB GIS SERVICE, THE SUBJECT SITE PROPOSED CATCH BASIN (CB) CONTAINS NO LOCAL, STATE, OR FEDERALLY RECOGNIZED HISTORIC STRUCTURE(S) OR ARCHEOLOGICAL RESOURCES WITHIN ----- OHE ----- OHE ----- OHE ----- EXISTING OVERHEAD ELECTRIC LINE ITS BOUNDARIES PER SOUTHERN ENVIRONMENTAL GROUP, INC. PROPOSED INLET PROTECTION THERE ARE NO KNOWN CEMETERIES, BURIAL SITES, OR BURIAL GROUNDS WITHIN THE BOUNDARIES OF THE SUBJECT SITE PER SOUTHERN ENVIRONMENTAL GROUP, INC. THE SITE IS AN EXISTING COMMERCIAL/INDUSTRIAL SITE WITH NO FORESTED AREAS. THERE ARE NO SECTION 404 WETLANDS WITHIN THE BOUNDARIES OF THE SUBJECT SITE PER SOUTHERN ENVIRONMENTAL PROPOSED PERVIOUS CONCRETE For each open utility cut of EXISTING SANITARY SEWER LINE City streets, a \$325 permit 8. THE SUBJECT SITE CONTAINS NO NATURAL AREAS OR HABITAT FOR ANY OF THE LISTED SPECIES WITHIN NEW HANOVER EXISTING SANITARY SEWER MANHOLE (SSMH) shall be required from the COUNTY PER SOUTHERN ENVIRONMENTAL GROUP, INC. PROPOSED FOUNDATION PLANTING AREA Approved Construction Plan City prior to occupancy). THIS TRACT IS LOCATED IN ZONE "X" & "AE" ELEV. 9' ACCORDING TO THE FEDERAL EMERGENCY MANAGEMENT EXISTING STORM DRAIN Public Services 🔹 Engineering Divisio C.O. O PROPOSED SANITARY SEWER CLEANOUT and/or project acceptance. GRAPHIC SCALE AGENCY'S FLOOD INSURANCE RATE MAP, COMMUNITY-PANEL NUMBER 3720311700K, DATED: 6/2/2006 (PER BATEMAN EXISTING STORM DRAIN MANHOLE (SDMH) () PROPOSED SANITARY SEWER MANHOLE (SSMH) CIVIL SURVEY COMPANY, PC) THERE ARE NO KNOWN EXISTING OR PROPOSED THOROUGHFARES, BIKE ROUTES, PEDESTRIAN SIDEWALKS OR TRAILS, OR TRANSIT FACILITIES LOCATED WITHIN THE BOUNDARIES OF THE SUBJECT PARCEL PER SOUTHERN ENVIRONMENTAL GROUP, INC. ONLY EXISTING FRONTAGE SIDEWALK AROUND BLOCK IS LOCATED IN FRONT OF ADJACENT PROPERTY ON GREENFIELD STREET. FRONTAGE SIDEWALKS ALONG SOUTH FRONT STREET, GREENFIELD STREET, & SOUTH 2ND STREET ARE PROPOSED PROPOSED GATE VALVE (G.V.) AS PART OF THE DEVELOPMENT PLAN FOR THIS PROJECT. (IN FEET) PROPOSED FIRE HYDRANT ASSEMBLY (F/H) COVER SHEET THE TRACT IS WITHIN THE CAPE FEAR RIVER BASIN & DRAINS TO GREENFIELD CREEK (SC;Sw). 2-7-17 1 inch = 40 ft.12. CAMA LAND USE CLASSIFICATION PER THE 2006 CAMA PLAN UPDATE LAND CLASSIFICATION MAP IS URBAN & CONSERVATION. PROPOSED WATER METER AND/OR BACKFLOW PREVENTER SCALE: 1"=40' REVISED PER TRC COMMENTS. FIRE AND LIFE SAFETY NOTES NORTH CAROLINA WILMINGTON TOWNSHIP NEW HANOVER COUNTY 1. PARKING AND LANDSCAPING CANNOT BLOCK FIRE HYDRANTS OR FDC'S. A 3-FOOT CLEAR SPACE SHALL BE MAINTAINED AROUND THE REVISED TO ADJUST SHEET INDEX, AND ADD NOTES, ITEMS TO LEGEND, & WATER & SEWER CAPACITY. 4-12-17 JCB CIRCUMFERENCE OF THE HYDRANT AND FDC. TOTAL LENGTH OF PUBLIC SANITARY SEWER MAIN = 34.26 LF TOTAL LENGTH OF PRIVATE SANITARY SEWER MAIN = 200.00 LF . FIRE HYDRANTS CANNOT BE FURTHER THAN 8' FROM THE CURB. CHECKED: MALPASS ENGINEERING & SURVEYING, P.C. 3 LOADING BAYS x 100 GPD/LOADING BAY + 5 3. NEW HYDRANTS MUST BE BROUGHT INTO SERVICE PRIOR TO COMBUSTIBLE MATERIALS BEING DELIVERED TO THE JOB SITE. TOTAL LENGTH OF PUBLIC WATER MAIN = 51 LF JBM 1134 SHIPYARD BOULEVARD EXISTING SEWER CAPACITY (APPROX.): EMPLOYEES x 25 GPD/EMPLOYEE + 2 EMPLOYEES 4. ALL WEATHER ACCESS ROAD MUST BE MAINTAINED AROUND CONSTRUCTION SITE AT ALL TIMES. TOTAL LENGTH OF PRIVATE WATER MAIN = 293 LF FINAL WILMINGTON, NORTH CAROLINA 28412 PROJECT NO: REVISED TO RAISE FFE OF BUILDING #1 5. PRIVATE UNDERGROUND FIRE LINES REQUIRE A SEPARATE UNDERGROUND FIRE LINE PERMIT FROM THE WILMINGTON FIRE & LIFE SAFETY DIVISION AT \times 25 GPD/EMPLOYEE = 475 GPD TOTAL LENGTH OF PUBLIC FIRE LINE = 40 LF Phone 910-392-5243 REVISED TO ADJUST SITE DATA, BUILDING #1 INTERIOR LAYOUT & WALKWAY EAST SIDE OF BUILDING,
WATER & SEWER CAPACITY, AND PRIVATE FIRE LINE LENGTH.

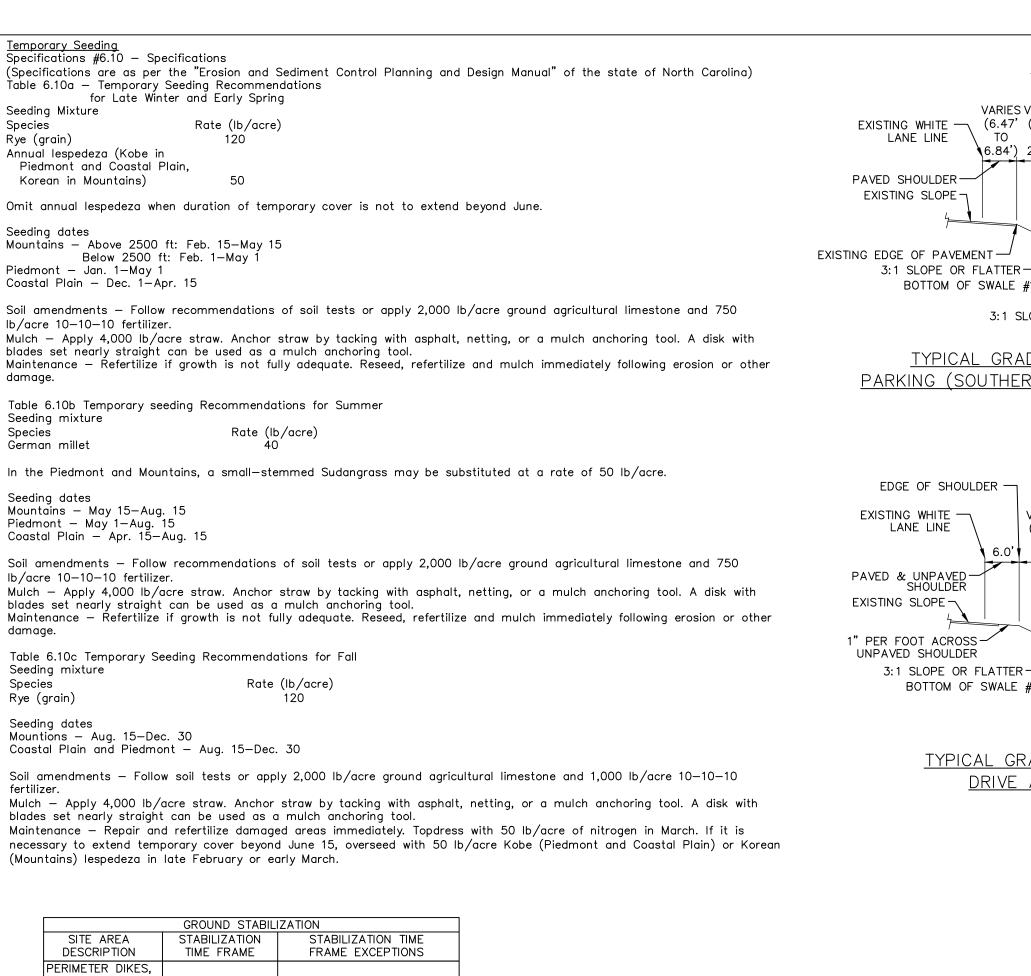
1-19-18
REVISED TO ADJUST NOTE #9, DELETE NOTE #33, CHANGE NOTES #46-48, & DELETE NOTES #49-50.
3-29-18 274 DRAWING License No. C-2320 TOTAL LENGTH OF PRIVATE FIRE LINE (INCLUDES LINES TO EACH Fax 910-392-5203 EXISTING WATER CAPACITY (APPROX.) 475 GPD 6. A MINIMUM OF 5' SHALL SEPARATE UNDERGROUND FIRE LINES OR PRIVATE WATER MAINS FROM OTHER UNDERGROUND UTILITIES. BUILDING & FIRE HYDRANT) = 404 LF FOR REVIEW $4,904 \text{ SF} \times 130 \text{ GPD}/1,000 \text{ SF} + (0.6 \times 10^{-2})$ 7. FDC'S CAN BE NO FURTHER THAN 150' FROM A FIRE HYDRANT. 5,570 SF) x 1 SEAT/15 SF x 40 GPD/SEAT + **PURPOSES** Owner: GREENFIELD STREET PROPERTIES, LLC 8. FDC'S CAN BE NO FURTHER THAN 40' FROM FIRE DEPARTMENT VEHICLE PLACEMENT. SHEET NO: PRELIMINARY PLAT 5,664 SF x 1 EMPLOYEE/200 SF x 1 SHIFT x 9. TAMPER SWITCHES SHALL BE INSTALLED ON ALL VALVES THAT ARE CAPABLE OF TURNING THE WATER SUPPLY OFF TO THE SPRINKLER SYSTEMS.
10. HYDRANTS SHALL BE OF SUFFICIENT NUMBERS TO ACCOMMODATE BASE FIRE FLOW REQUIREMENTS OF STRUCTURE. PROPOSED SEWER CAPACITY REVISED TO ADJUST NOTE #45 AND ADD NOTE #5 7-30-18 ONLY WILMINGTON, NORTH CAROLINA 28403 25 GPD/EMPLOYEE/SHIFT + 14,926 SF x 1 NOT FOR RECORDATION. PHONE: 910-251-5030 EMPLOYEE/1,000 SF x 1 SHIFT x 25 11. IN ADDITION TO THE STANDARD COMMENTS, ADDITIONAL FIRE PROTECTION AND ACCESSIBILITY REQUIREMENTS MAY BE REQUIRED DUE TO ANY CONVEYANCES, OR SALES GPD/EMPLOYEE/SHIFT = 10,631 GPD SPECIAL CIRCUMSTANCES CONCERNING THE PROJECT. 12. BUILDING CONSTRUCTION TYPE ACCORDING TO THE INTERNATIONAL BUILDING CODE IS II—B (BUILDING #1) & V—B (BUILDINGS #2 & 3). 10,631 GPD PROPOSED WATER CAPACITY





<u>Permanent Seeding</u> Temporary Seeding Specifications #6.11 - Specifications (Specifictions are as per the "Erosion and Sediment Control Planning and Design Manual" of the state of | North Carolina) Table 6.10a — Temporary Seeding Recommendations Table 6.11p — Seeding No. 1CP for: Well—to Poorly Drained soils with Good Moisture Retention; Low Maintenance Seeding Mixture Seeding mixture Species Species Rate (lb/acre) Rye (grain) Tall fescue Annual lespedeza (Kobe in Pensacola Bahiaarass Piedmont and Coastal Plain, Sericea lespedeza Korean in Mountains) Kobe lespedeza Omit annual lespedeza when duration of temporary cover is not to extend beyond June. Seeding Notes 1. From Sept. 1 — Mar. 1, use unscarified sericea seed 2. On poorly drained sites omit sericea and increase Kobe to 30 lb/acre. Mountains — Above 2500 ft: Feb. 15—May 15 3. Where a neat appearance is desired, omit sericea and increase Kobe to 40 lb/acre. Piedmont - Jan. 1-May 1 Coastal Plain - Dec. 1-Apr. 15 Between Apr. 15 & Aug. 15, add 10 lb/acre German millet or 15 lb/acre Sudangrass. Prior to May 1 or after Aug. 15, add 25 lb/acre rye (grain). lb/acre 10-10-10 fertilizer. Seeding dates blades set nearly straight can be used as a mulch anchoring tool. Early spring: Feb. 15 - Mar. 20 Feb. 15 - Apr. 30 Sept. 1 — Sept. 30 Sept. 1 — Oct. 31 | Soil amendments — Apply lime and fertilizer according to soil tests, or apply 3,000-5,000 lb/acre ground Table 6.10b Temporary seeding Recommendations for Summer agricultural limestone (use the lower rate on sandy soils) and 1,000 lb/acre 10-10-10 fertilizer. Seeding mixture Mulch — Apply 4,000 lb/acre grain straw or equivalent cover of another suitable mulch. Anchor straw by Species tacking with asphalt, netting, or roving or by crimping with a mulch anchoring tool. A disk with blades set German millet nearly straight can be used as a mulch anchoring tool | Maintenance - If growth is less than fully adequate, refertilize in the second year, according to soil tests or topdress with 500 lb/acre 10-10-10 fertilizer. Mow as needed when sericea is omitted from the mixture. Reseed, fertilize, and mulch damaged areas immediately. Seeding dates Mountains — May 15—Aug. 15 Table 6.11q — Seeding No. 2CP for: Well-to Poorly Drained soils with Good Moisture Retention; High Piedmont - May 1-Aug. 15 l Maintenance Coastal Plain - Apr. 15-Aug. 15 Seeding mixture Species Rate (lb/acre) Tall fescue (blend of two or lb/acre 10-10-10 fertilizer. three improved varieties) Rye (grain) blades set nearly straight can be used as a mulch anchoring tool. Seeding dates Best: Sept. 15 — Oct. 15 | Possible: Sept. 1 - Oct. 31 or Feb. 15 - Apr. 30 Table 6.10c Temporary Seeding Recommendations for Fall Seeding mixture | Soil amendments — Apply lime and fertilizer according to soil tests, or apply 3,000—5,000 lb/acre ground Species agricultural limestone (use the lower rate on sandy soils) and 1,000 lb/acre 10-10-10 fertilizer. Rye (grain) | Mulch — Apply 4,000 lb/acre grain straw or equivalent cover of another suitable mulch. Anchor straw by tacking with asphalt, netting, or roving or by crimping with a mulch anchoring tool. A disk with blades set nearly straight can be used as a mulch anchoring tool. Mountions - Aug. 15-Dec. 30 | Maintenance — Fertilize according to soil tests or apply 40 lb/acre nitrogen in Jan. or Feb., 40 lb in Sept., Coastal Plain and Piedmont — Aug. 15—Dec. 30 and 40 lb in Nov., from a 12-4-8, 16-4-8, or similar turf fertilizer. Avoid fertilizer applications during warm weather, as this inceases stand losses to disease. Reseed, fertilize, and mulch damaged areas immediately. Mow to a height of 2.5—3.5 inches as needed. fertilizer. Table 6.11r - Seeding No. 3CP for: Dry Sands to Sandy Loams; blades set nearly straight can be used as a mulch anchoring tool. High Maintenance, Fine Turf Seeding mixture Rate (bu/1,000 ft^2) Species (Mountains) lespedeza in late February or early March. Tifway or Tifway II Minimum: 3 hybrid Bermudagrass Rapid cover: 10 Seeding Notes . Sprig or sod (Practice 6.12, Sodding). Moisture is essential during initial establishment. Sod must be kept well watered for 2-3 weeks, but can be planted earlier or later than sprigs. 2. Common Bermuda can be seeded or sprigged but does not produce a high—quality turf. It is also less cold tolerant than the hybrids, more weed prone, and a pest in flower beds and specimen plantings. Planting dates Apr. – July Soil amendments — Apply lime and fertilizer according to soil tests, or apply 3,000 lb/acre ground agricultural limestone and 500 lb/acre 10-10-10 fertilizer, or 50 lb/acre nitrogen from turf-type slow-release fertilizer. Add 25-50 lb/acre nitrogen at 2- to 3-week intervals through midsummer. Sprigging — Plant sprigs in furrows with a tractor—drawn transplanter, or broadcast by hand. Furrows should be 4-6 inches deep and 2 ft apart. Place sprigs about 2 ft apart in the row with one end at or above ground level (Figure 6.11d). Broadcast at rates shown above, and press sprigs into the top 1/2-2 inches of soil with a disk set straight so that sprigs are not brought back toward the surface. Maintenance — Water as needed and mow to 3/4— to 1—inch height. Topdress with 40 lb/acre nitrogen in Apr., 50 lb in May, 50 lb in June, 30 lb in July, and 25-50 lb in Aug. Table 6.11s — Seeding No. 4CP for: Well—Drained Sandy Loams to Dry Sands, Coastal Plain and Eastern Edge of Piedmont; Low-to Medium-Care Lawns Seeding mixture Species Centipedegrass 10-20 lb/acre (seed) or 33 bu/acre (sprigs) Seeding dates lMar. — June (Sprigging can be done through July where water is available for irrigation.) |Soil amendments — Apply lime and fertilizer according to soil tests, or apply 300 lb/acre 10—10—10. Sprigging — Plant sprigs in furrows with a tractor—drawn transplanter, or broadcast by hand. Furrows should be 4-6 in ches deep and 2 ft apart. Place sprigs about 2 ft apart in the row with one end at or above ground level (Figure 6.11d) Broadcast at rates shwon above, and press sprigs into the top 1/2-2 inches of soil with a disk set straight so that sprigs are not brought back toward the surface. Mulch — Do not mulch. |Maintenance - Fertilize very sparingly - 20 lb/acre nitrogen in spring with no phosphorus. Centipedegrass cannot tolerate high pH or excess fertilizer. Table 6.11t - Seeding No. 5CP for: Well-Drained Sandy Loams to Dry Sands; Low Maintenance Seeding mixture Species Rate (lb/acre) Pensacola Bahiagrass Sericea lespedeza Common Bermudagrass German millet . Where a neat appearance is desired, omit sericea. 2. Use common Bermuda only on isolated sites where it cannot become a pest. Bermudagrass may be replaced with 5 lb/acre centipedegrass. Seeding dates Apr. 1 - July 15 Soil amendments — Apply lime and fertilizer according to soil tests, or apply 3,000 lb/acre ground agricultural limestone and 500 lb/acre 10-10-10 fertilizer. Mulch — Apply 4,000 lb/acre grain straw or equivalent cover of another suitable mulch. Anchor by tacking with asphalt, roving, or netting or by crimping with a mulch anchoring tool. A disk with blades set nearly straight can be used as a mulch ancoring tool. Maintenance — Refertilize the following Apr. with 50 lb/acre nitrogen. Repeat as growth requires. May be mowed only once a year. Where a neat appearance is desired, omit sericea and mow as often as need. Table 6.11v — Seeding No. 7CP for: Grass—lined Channels; Coastal Plain, Lower Piedmont, and Dry Soils in the Central Piedmont Seeding mixture ` Species 40-80 (1-2 lb/1,000 ft^2) Common Bermudagrass | Coastal Plain: Apr. — July Piedmont: Apr. 15 — June 30 | Soil amendments — Apply lime and fertilizer according to soil tests, or apply 3,000 lb/acre ground agricultural limestone and 500 lb/acre 10-10-10 fertilizer. | Mulch — Use jute, excelsior matting, or other effective channel lining material to cover the bottom of channels and ditches. The lining should extend above the highest calculated depth of flow. On channel side slopes above this height, and in drainages not requiring temporary linings, apply 4,000 lb/acre grain straw and anchor straw by stapling netting over the top. Mulch and anchoring materials must not be allowed to wash down slopes where they can clog drainage | Maintenance - A minimum of 3 weeks is required for establishment. Inspect and repair mulch frequently. Refertilize the following Apr. with 50 lb/acre nitrogen.

Refer to Appendix 8.02 for botanical names



for Late Winter and Early Spring

Below 2500 ft: Feb. 1-May 1

Rate (lb/acre)

Rate (lb/acre)

Rate (lb/acre)

GROUND STABILIZATION

STABILIZATION

TIME FRAME

7 DAYS

7 DAYS

7 DAYS

*NEW HANOVER COUNTY LAND QUALITY SEEDING DEADLINES: 21

CALENDAR DAYS FOR ALL SLOPES & 15 WORKING DAYS FOR ALL

**THE SHORTER STABILIZATION TIME FRAME BETWEEN THE ABOVE CHART AND THE NEW HANOVER COUNTY LAND QUALITY SEEDING

DEADLINES, FOR THE RESPECTIVE AREAS, SHALL BE FOLLOWED.

-NCDOT #5 OR #57 WASHED STONE

1. UNIFORMLY GRADE A SHALLOW DEPRESSION APPROACHING THE INLET.

2. DRIVE 5-FOOT STEEL POSTS 2 FEET INTO THE GROUND SURROUNDING

3. SURROUND THE POSTS WITH WIRE MESH HARDWARE CLOTH. SECURE THE WIRE MESH TO THE STEEL POSTS AT THE TOP, MIDDLE, AND

BOTTOM. PLACING A 2-FOOT FLAP OF THE WIRE MESH UNDER

NOT TO SCALE

INLET, A MAXIMUM OF 4 FEET APART.

THE GRAVEL FOR ANCHORING IS RECOMMENDED.

THE INLET. SPACE POSTS EVENLY AROUND THE PERIMETER OF THE

HARDWARE CLOTH & GRAVEL

INLET PROTECTION DETAIL

STABILIZATION TIME

FRAME EXCEPTIONS

NONE

NONE

F SLOPES ARE 10 FEET OR

LESS IN LENGTH AND ARE

NOT STEEPER THAN 2:1,

14 DAYS ARE ALLOWED

7 DAYS FOR SLOPES

GREATER THAN 50 FEET

IN LENGTH

NONE (EXCEPT FOR

-19-GAUGE

HARDWARE CLOTH

(1/4 MESH OPENINGS)

PERIMETERS AND HQW

SITE AREA

DESCRIPTION

PERIMETER DIKES

SWALES, DITCHES

AND SLOPES

HIGH QUALITY

WATER (HQW)

ZONÈS

SLOPES STEEPER

THAN 3:1

SLOPES 3:1 OR

FLATTER

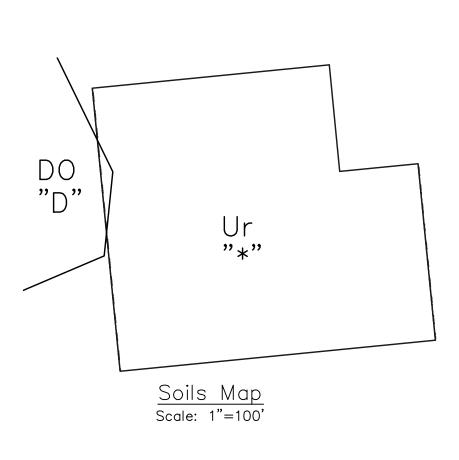
ALL OTHER

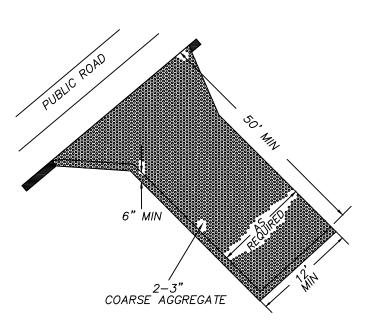
AREAS WITH

SLOPES FLATTER

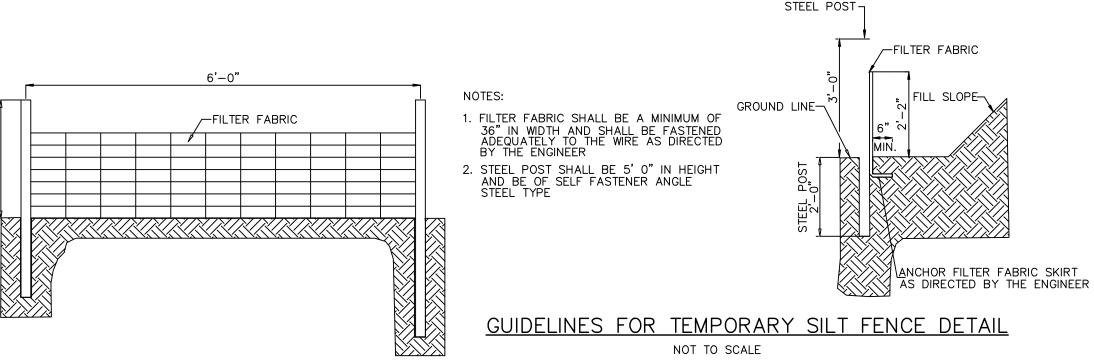
THAN 4:1

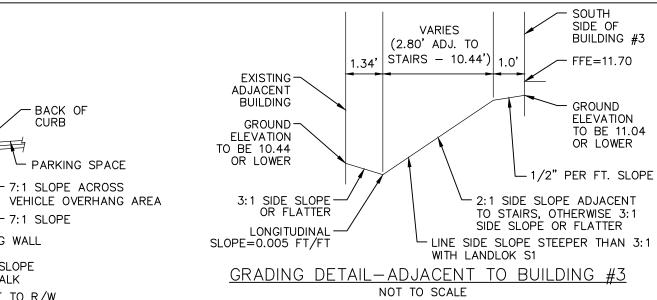
OTHER AREAS.





TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT NOT TO SCALE





SITE SOUTH SECOND STREET

-50:1 SLOPE OR FLATTER

SIDEWALK (SEE GRADING

PLAN FOR GRADES)

LANDSCAPE/GRASS AREA

-7:1 SLOPE OR FLATTER ACROSS

<u>TYPICAL GRADING DETAIL - BETWEEN PERPENDICULAR</u> PARKING (SOUTHERN PORTION OF SITE) & SOUTH FRONT STREET NOT TO SCALE

DRIVE AISLE & SOUTH FRONT STREET

NOT TO SCALE

SOUTH FRONT STREET \ SITE _

VARIES

(8.23'

VARIES VARIES

(6.47' (1.81'

BOTTOM OF SWALE #1.

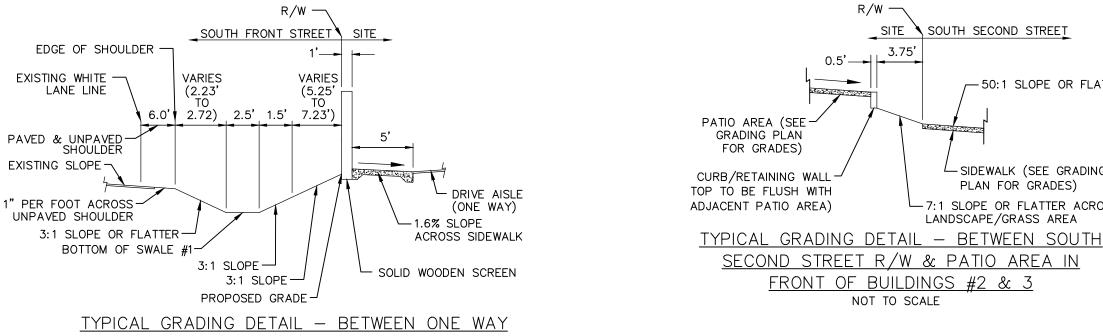
TO TO

(6.84') 2.25') 2.5' 1.5' 8.73')

3:1 SLOPE -

PROPOSED GRADE

3:1 SLOPE OR FLATTER ─



1' 2.37' 2'

- PARKING SPACE

- 7:1 SLOPE ACROSS

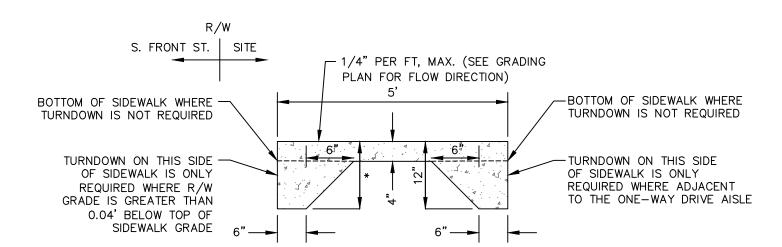
─ 7:1 SLOPE

- RETAINING WALL

-1/4" PER FT. SLOPE

ACROSS SIDEWALK

└-1/2" PER FT. SLOPE TO R/W



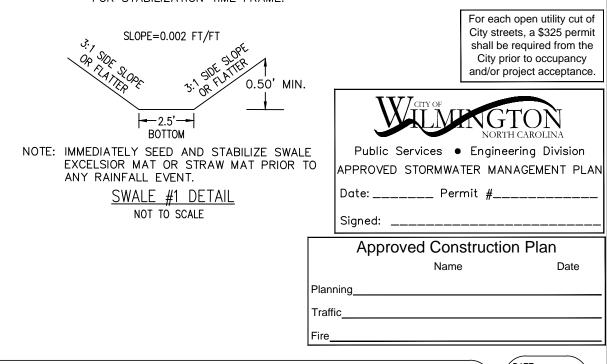
*WHERE REQUIRED, HEIGHT AS NECESSARY FOR BOTTOM OF TURNDOWN TO BE A MINIMUM OF 4 INCHES BELOW R/W GRADE. NOTE: SEE STANDARD SIDEWALK DETAIL (SD 8-15) FOR TYPICAL LOCATIONS OF SCORE LINES & EXPANSION JOINTS.

SOUTH FRONT STREET SIDEWALK DETAIL NOT TO SCALE

MAINTENANCE PLAN

1. ALL EROSION CONTROL MEASURES WILL BE CHECKED EVERY 7 DAYS OR AFTER

- EACH RAIN PRODUCING 1/2 INCHES OR MORE WHICH EVER COMES FIRST. SEDIMENT WILL BE REMOVED FROM BEHIND SILT FENCES WHERE SEDIMENT IS 0.5 FEET DEEP AND REPAIR FABRIC IF TORN. LEAKING OR FAILING. ALL POINTS OF EGRESS WILL HAVE CONSTRUCTION ENTRANCES THAT WILL BE PERIODICALLY TOP-DRESSED WITH AN ADDITIONAL 2 INCHES OF #4 STONE TO MAINTAIN PROPER DEPTH. THEY WILL BE MAINTAINED IN A CONDITION TO PREVENT MUD OR SEDIMENT FROM LEAVING THE SITE. IMMEDIATELY REMOVE
- OBJECTIONABLE MATERIAL SPILLED, WASHED, OR TRACKED ONTO THE CONSTRUCTION ENTRANCE OR ROADWAYS. CHECK SEDIMENT BASINS AFTER PERIODS OF SIGNIFICANT RUNOFF. REMOVE SEDIMENT AND RESTORE THE BASIN TO ITS ORIGINAL DIMENSIONS WHEN SEDIMENT ACCUMULATES TO ONE-HALF THE DESIGN DEPTH. CHECK THE EMBANKMENT, SPILLWAYS, AND OUTLET FOR EROSION DAMAGE, AND INSPECT THE EMBANKMENT FOR PIPING AND SETTLEMENT. MAKE ALL NECESSARY REPAIRS IMMEDIATELY. REMOVE ALL TRASH AND OTHER DEBRIS FROM THE RISER AND POOL AREA. GRAVEL WILL BE CLEANED OR REPLACED WHEN THE SEDIMENT POOL NO LONGER DRAINS PROPERLY OR IF THE ROCK IS DISLODGED.
- INSPECT TEMPORARY SEDIMENT TRAPS AFTER EACH SIGNIFICANT RAINFALL REMOVE SEDIMENT AND RESTORE THE TRAP TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO ONE-HALF THE DESIGN DEPTH OF THE TRAP. PLACE THE SEDIMENT THAT IS REMOVED IN THE DESIGNED DISPOSAL AREA AND REPLACE THE CONTAMINATED PART OF THE GRAVEL FACING. CHECK THE STRUCTURE FOR DAMAGE FROM EROSION OR PIPING. PERIODICALLY CHECK THE DEPTH OF THE SPILLWAY TO ENSURE IT IS A MINIMUM OF 1.5 FT BELOW THE LOW POINT OF THE EMBANKMENT. IMMEDIATELY FILL ANY SETTLEMENT OF THE EMBAKMENT TO SLIGHTLY ABOVE GRADE. ANY RIPRAP DISPLACED FROM THE SPILLWAY MUST BE REPLACED IMMEDIATELY. AFTER ALL SEDIMENT-PRODUCING AREAS HAVE BEEN PERMANENTLY STABILIZED, REMOVE THE STRUCTURE AND ALL UNSTABLE SEDIMENT. SMOOTH THE AREA TO BLEND WITH THE ADJOINING AREAS AND STABILIZE PROPERLY.
- 6. INSPECT RIPRAP OUTLET STRUCTURES AFTER HEAVY RAINS TO SEE IF ANY EROSION AROUND OR BELOW THE RIPRAP HAS TAKEN PLACE OR IF STONES HAVE BEEN DISLODGED. IMMEDIATELY MAKE ALL NEEDED REPAIRS TO PREVENT FURTHER DAMAGE
- 7. RIP RAP SHOULD BE INSPECTED PERIODICALLY FOR SCOUR OR DISLODGED STONES. CONTROL OF WEED AND BRUSH GROWTH MAY BE NEEDED IN SOME
- 8. ROCK DAM: CHECK SEDIMENT AFTER EACH RAINFALL. REMOVE SEDIMENT AND RESTORE ORIGINAL VOLUME WHEN SEDIMENT ACCUMULATES TO ABOUT ONE-HALF THE DESIGN VOLUME. CHECK THE STRUCTURE FOR EROSION, PIPING, AND ROCK DISPLACEMENT AFTER
- EACH SIGNIFICANT RAINSTORM AND REPAIR IMMEDIATELY. INSPECT ALL MULCHES PERIODICALLY AND AFTER RAINSTORMS TO CHECK FOR RILL EROSION, DISLOCATION, OR FAILURE. WHERE EROSION IS OBSERVED. APPLY ADDITIONAL MULCH. IF WASHOUT OCCURS, REPAIR THE SLOPE GRADE, RESEED, AND REINSTALL MULCH. CONTINUE INSPECTIONS UNTIL VEGETATION IS FIRMLY ESTABLISHED.
- 10. INSPECT CHECK DAMS AND CHANNELS FOR DAMAGE AFTER EACH RUNOFF EVENT. ANTICIPATE SUBMERGENCE AND DEPOSITION ABOVE THE CHECK DAM AND EROSION FROM HIGH FLOWS AROUND THE EDGES OF THE DAM. CORRECT ALL DAMAGE IMMEDIATELY. IF SIGNIFICANT EROSION OCCURS BETWEEN DAMS. INSTAL A PROTECTIVE RIPRAP LINER IN THAT PORTION OF THE CHANNEL. REMOVE SEDIMENT ACCUMULATED BEHIND THE DAMS AS NEEDED TO PREVENT DAMAGE TO CHANNEL VEGETATION, ALLOW THE CHANNEL TO DRAIN THROUGH THE STONE CHECK DAM, AND PREVENT LARGE FLOWS FROM CARRYING SEDIMENT OVER THE DAM. ADD STONES TO DAMS AS NEEDED TO MAINTAIN DESIGN HEIGHT AND CROSS SECTION
- 11. INSPECT BAFFLES AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY. BE SURE TO MAINTAIN ACCESS TO THE BAFFLES. SHOULD THE FABRIC OF A BAFFLE COLLAPSE. TEAR. DECOMPOSE. OF BECOME INEFFECTIVE, REPLACE IT PROMPTLY. REMOVE SEDIMENT DEPOSITS WHEN IT REACHES HALF FULL TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE BAFFLES. TAKE CARE TO AVOID DAMAGING THE BAFFLES DURING CLEANOUT. SEDIMENT DEPTH SHOULD NEVER EXCEED HALF THE DESIGNED STORAGE DEPTH. AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED, REMOVE ALL BAFFLE MATERIALS AND UNSTABLE SEDIMENT DEPOSITS, BRING THE AREA TO GRADE, AND
- 12. INSPECT INLETS AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (1/2 INCH OR GREATER) RAINFALL EVENT. SEDIMENT WILL BE REMOVED FROM HARDWARE CLOTH AND GRAVEL INLET PROTECTION, BLOCK AND GRAVEL INLET PROTECTION ROCK DOUGHNUT INLET PROTECTION AND ROCK PIPE INLET PROTECTION WHEN THE DESIGNED STORAGE CAPACITY HAS BEEN HALF FILLED WITH SEDIMENT. ROCK WILL BE CLEANED OR REPLACED WHEN THE SEDIMENT POOL NO LONGER DRAINS AS DESIGNED. DEBRIS WILL BE REMOVED FROM THE ROCK AND HARDWARE CLOTH TO ALLOW PROPER DRAINAGE. TAKE CARE NOT TO DAMAGE OR UNDERCUT THE WIRE MESH DURING SEDIMENT REMOVAL. SILT SACKS WILL BE EMPTIED ONCE A WEEK AND AFTER EVERY RAIN EVENT. SEDIMENT WILL BE REMOVED FROM AROUND BEAVER DAMS, DANDY SACKS AND SOCKS ONCE A WEEK AND AFTER EVERY RAIN EVENT. 13. INSPECT TEMPORARY DIVERSIONS ONCE A WEEK AND AFTER EVERY RAINFALL
- IMMEDIATELY REMOVE SEDIMENT FROM THE FLOW AREA AND REPAIR THE DIVERSION RIDGE. CAREFULLY CHECK OUTLETS AND MAKE TIMELY REPAIRS AS NEEDED. WHEN THE AREA PROTECTED IS PERMANENTLY STABILIZED, REMOVE THE RIDGE AND THE CHANNEL TO BLEND WITH THE NATURAL GROUND LEVEL AND APPROPRIATELY STABILIZE
- 14. INSPECT SKIMMER SEDIMENT BASINS AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (ONE-HALF INCH OR GREATER) RAINFALL EVENT AND REPAIR IMMEDIATELY. REMOVE SEDIMENT AND RESTORE THE BASIN TO ITS ORIGINAL DIMENSIONS WHEN SEDIMENT ACCUMULATES TO ONE-HALF THE HEIGHT OF THE FIRST BAFFLE. PULL THE SKIMMER TO ONE SIDE SO THAT THE SEDIMENT UNDERNEATH IT CAN BE EXCAVATED. EXCAVATE THE SEDIMENT FROM THE ENTIRE BASIN, NOT JUST AROUND THE SKIMMER OR THE FIRST CELL, MAKE SURE VEGETATION GROWING IN THE BOTTOM OF THE BASIN DOES NOT HOLD DOWN THE SKIMMER. REPAIR THE BAFFLES IF THEY ARE DAMAGED. RE-ANCHOR THE BAFFLES IF WATER IS FLOWING UNDERNEATH OR AROUND THEM. IF THE SKIMMER IS CLOGGED WITH TRASH AND THERE IS WATER IN THE BASIN, USUALLY JERKING ON THE ROPE WILL MAKE THE SKIMMER BOB UP AND DOWN AND DISLODGE THE DEBRIS AND RESTORE FLOW. IF THIS DOES NOT WORK, PULL THE SKIMMER OVER TO THE SIDE OF THE BASIN AND REMOVE THE DEBRIS. ALSO CHECK THE ORIFICE INSIDE THE SKIMMER TO SEE IF IT IS CLOGGED; IF SO REMOVE THE DEBRIS. IF THE SKIMMER ARM OR BARREL PIPE IS CLOGGED, THE ORIFICE CAN BE REMOVED AND THE OBSTRUCTION CLEARED WITH A PLUMBER'S SNAKE OR BY FLUSHING WITH WATER. BE SURE AND REPLACE THE ORIFICE BEFORE REPOSITIONING THE SKIMMER. CHECK THE FABRIC LINED SPILLWAY FOR DAMAGE AND MAKE ANY REQUIRED REPAIRS WITH FABRIC THAT SPANS THE FULL WIDTH OF THE SPILLWAY. CHECK THE EMBANKMENT, SPILLWAYS, AND OUTLET FOR EROSION DAMAGE, AND INSPECT THE EMBANKMENT FOR PIPING AND SETTLEMENT. MAKE ALL NECESSARY REPAIRS IMMEDIATELY. REMOVE ALL TRASH AND OTHER DEBRIS FROM THE SKIMMER AND POOL AREAS. FREEZING WEATHER CAN RESULT IN ICE FORMING IN THE BASIN. SOME SPECIAL PRECAUTIONS SHOULD BE TAKEN IN THE WINTER TO PREVENT THE SKIMMER FROM PLUGGING WITH ICE.
- 15. ALL SEEDED AREAS WILL BE FERTILIZED, RESEEDED AS NECESSARY, AND MULCHED ACCORDING TO SPECIFICATIONS IN THE VEGETATIVE PLAN TO MAINTAIN A VIGOROUS, DENSE VEGETATIVE COVER. SEE GROUND STABILIZATION CHART FOR STABILIZATION TIME FRAME.





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EROSION CONTROL & STORMWATER DETAIL SHEET

ONLY

REVISED TO ADJUST DETAILS. 4-7-17 REVISED TO ADJUST GRADING DETAILS. 5-25-17 7-17-17 3 REVISED PER NCDOT & CITY COMMENTS 4 REVISED PER CITY COMMENTS. 7-26-17 3-29-18 5 REVISED TO REMOVE PLAN VIEW. REVISED TO ADJUST TYPICAL GRADING DETAILS (S. FRONT ST.) & ADD S. FRONT ST. SIDEWALK DETAIL. 7-30-18