

PARK APARTMENTS

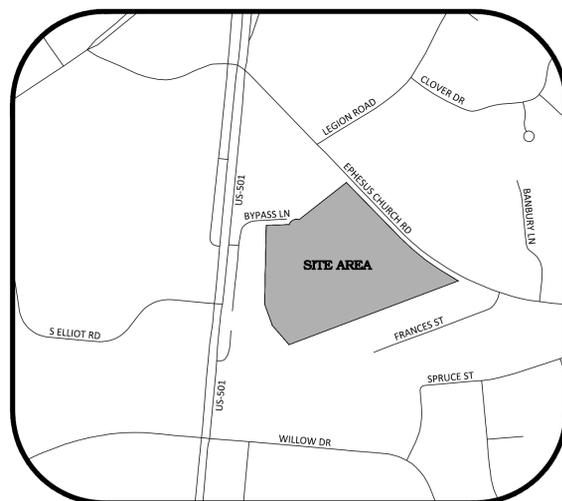
1250 EPHEBUS CHURCH ROAD
 CHAPEL HILL, NORTH CAROLINA, 27709
**DEMOLITION PHASE
 FORM DISTRICT PERMIT**
 PROJECT NUMBER: WDF-17000
 DATE: AUGUST 20, 2019

SITE DATA

PIN	9799346446	
SITE AREA	595,027 SF / 13.66 AC	
ZONING	WR-3, WR-7	
WATERSHED PROTECTION	JORDAN LAKE	
RIVER BASIN	CAPE FEAR	
EXISTING USE	MULTI-FAMILY RESIDENTIAL	
IMPERVIOUS AREA	EXISTING	6.51 AC (47.6%)
DISTURBED AREA	14.16 AC	



Zoning Approved Plan Set
August 28, 2019
10 pages
Michael Sudol



VICINITY MAP

1" = 500'



SHEET INDEX

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PROJECT DIRECTORY

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 PHONE: 704. 444. 7862

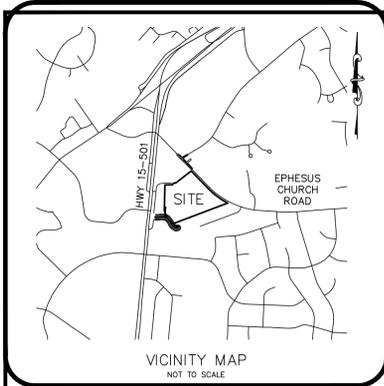


REVISIONS

NO. DATE

DEMOLITION PHASE FORM DISTRICT PERMIT FOR:

PARK APARTMENTS
 CHAPEL HILL,
 NORTH CAROLINA, 27709
 PROJECT NUMBER: WDF-17000



GENERAL NOTES

- THIS IS A SURVEY OF AN EXISTING PARCEL(S) OF LAND. THIS IS A TOPOGRAPHIC SURVEY.
- BEARINGS FOR THIS SURVEY ARE BASED ON NC GRID NAD 83.
- ALL DISTANCES ARE HORIZONTAL GROUND DISTANCES.
- ZONING: CHAPEL HILL R-5
- AREA BY COORDINATE GEOMETRY.
- FLOOD NOTE: THIS PROPERTY IS PARTIALLY LOCATED IN A SPECIAL FLOOD HAZARD ZONE. IT IS LOCATED IN ZONE "AE" AS DEFINED BY F.E.M.A. F.I.R.M. COMMUNITY PANEL #371097900, DATED JANUARY 19, 2019.
- REFERENCES: PB. 14 PG. 118 & PB. 43 PG. 53 OF THE ORANGE COUNTY REGISTRY.
- THIS SURVEY PERFORMED AND MAP PREPARED WITHOUT BENEFIT OF A TITLE REPORT. THIS SURVEY SUBJECT TO ANY FACTS AND EASEMENTS WHICH MAY BE DISCLOSED BY A FULL AND ACCURATE TITLE SEARCH.
- NO GRID MONUMENTS FOUND WITHIN 2000' OF SITE.
- ELEVATIONS FOR THIS SURVEY ARE BASED ON NAVD 88 DATUM ESTABLISHED BY GPS SESSIONS

PRELIMINARY PLAT
NOT FOR RECORDATION
CONVEYANCES OR SALES

I HEREBY CERTIFY THAT THE TOPOGRAPHIC SURVEY SHOWN HEREON IS BASED ON AN ACTUAL FIELD SURVEY MADE UNDER MY SUPERVISION AND ACCURATELY REPRESENTS THE PHYSICAL FEATURES THEREON AT THE TIME OF THIS SURVEY.

RONALD T. FREDERICK, P.L.S. L-4720

DATE _____



STORM DRAIN INVERT INFORMATION

D1	TOP=260.31'
	INV IN=256.30 24" HDPE
	INV OUT=256.21' 24" HDPE
D2	TOP=260.32'
	INV IN=256.72' 18"RCP
	INV OUT=256.62' 24"RCP
D3	TOP=260.58'
	INACCESSIBLE AT TIME OF SURVEY
D4	TOP=260.33'
	INACCESSIBLE AT TIME OF SURVEY
D5	TOP=262.80'
	INACCESSIBLE AT TIME OF SURVEY
D6	TOP=268.10'
	INV IN=262.70' 24"RCP
	INV OUT=262.60' 24"RCP
D7	TOP=272.48
	INV IN=266.83' 24"RCP
	INV OUT=266.68' 24"RCP
D8	TOP=278.86
	INV IN=273.86' 15"RCP
	INV OUT=273.66' 24"RCP
D9	TOP=281.28
	INV IN=277.78' 12"RCP
	INV IN=277.68' 12"RCP
	INV OUT=277.53' 15"RCP
D10	TOP=279.79'
	INACCESSIBLE AT TIME OF SURVEY
D11	TOP=278.70
	INV IN=277.51' 12"RCP
	INV OUT=277.40' 12"RCP
D12	TOP=282.25
	INV IN=278.65' 12"RCP
	INV OUT=278.50' 12"RCP
D13	TOP=282.91
	INV IN=279.38' 12"RCP
D14	TOP=264.71'
	STRUCTURE COLLAPSED.
D15	TOP=268.95
	INV IN=267.55' 12"RCP
	INV IN=267.54' 12"RCP
	INV OUT=266.75' 12"RCP
D16	TOP=263.72'
	INACCESSIBLE AT TIME OF SURVEY
D17	TOP=268.63'
	INV OUT=265.93' 12"RCP
D18	TOP=282.70'
	INACCESSIBLE AT TIME OF SURVEY
D19	TOP=291.00'
	INV IN=287.20' 15"RCP
	INV OUT=287.10' 18"RCP
D20	TOP=263.35'
	BOTTOM BOX=261.35'(INVERT OFFSET)
D21	TOP=279.58'
	INV OUT=277.68' 12"RCP
D22	TOP=275.52
	INV IN=274.22' 12"RCP
	INV OUT=274.12' 12"RCP
D23	TOP=292.59'
	INACCESSIBLE AT TIME OF SURVEY

TREE LEGEND

⊙A	ASH
⊙B	BEECH
⊙C	BIRCH
⊙D	CEDAR
⊙E	CHERRY
⊙F	CRAPE MYRTLE
⊙G	CYPRESS
⊙H	DOGWOOD
⊙I	ELM
⊙J	SWEET GUM
⊙K	MISC. HARDWOOD
⊙L	HICKORY
⊙M	HOLLY
⊙N	MAGNOLIA
⊙O	MAPLE
⊙P	JAPANESE MAPLE
⊙Q	MIMOSA
⊙R	RED OAK
⊙S	WHITE OAK
⊙T	OAK
⊙U	PECAN
⊙V	PEAR
⊙W	PEACH
⊙X	PEAR
⊙Y	PECAN
⊙Z	PERSIMMON
⊙AA	PINE
⊙AB	POPLAR
⊙AC	REDBUD
⊙AD	SYCAMORE
⊙AE	WALNUT
⊙AF	DOUBLE AND TRIPLE TRUNKS
⊙AG	DOUBLE OAK
⊙AH	TRIPLE OAK
⊙AI	CALIPER INCH SIZE OF TREE
⊙AJ	TYPE OF TREE
⊙AK	D FOR DOUBLE, T FOR TRIPLE

LEGEND

⊙	EXISTING IRON PIPE
○	IRON PIPE SET
●	CALCULATED POINT
⊙	BØRE HOLE
⊙	SANITARY SEWER MANHOLE
⊙	SANITARY SEWER CLEANOUT
⊙	WATER VALVE
⊙	WATER METER
⊙	FIRE HYDRANT
⊙	TELEPHONE PEDESTAL
⊙	TELEPHONE MANHOLE
⊙	ELECTRIC BOX
⊙	LIGHT POLE
⊙	POWER POLE
⊙	CURB INLET
⊙	STORM DRAINAGE MANHOLE
⊙	YARD INLET
—SD—	STORM DRAIN PIPE
—OU—	OVERHEAD UTILITY LINES
—W—	WATER LINE
—SS—	SANITARY SEWER LINE
—T—	TELEPHONE LINE
—G—	GAS LINE
—UE—	UNDERGROUND ELECTRIC
—UT—	UNDERGROUND TELEPHONE
—X—X—	FENCE LINE

LINE TABLE

LINE	BEARING	DISTANCE
L1	S 59°36'56" E	31.14'
L2	S 58°53'00" E	100.00'

CURVE TABLE

CURVE	RADIUS	ARC LENGTH	CHORD BEARING	CHORD LENGTH
C1	50.00'	72.91'	S 63°30'06" W	66.62'

SOILS LEGEND

MAP UNIT SYMBOL	MAP UNIT NAME	UNIFIED SOIL CLASSIFICATION	HYDROLOGIC SOIL GROUP
CH	CHEWALACA LOAM	CL	B/D
UR	URBAN LAND		D
WTC2	WHITE STORE CLAY LOAM	CL	D
WVC	WHITE STORE-URBAN LAND COMPLEX	ML	D

SANITARY SEWER INVERT INFORMATION

SS1	TOP=262.34'
	INV IN=257.14 8" SAN
	INV OUT=256.94' 8"SAN
SS2	TOP=267.53'
	INV IN=262.03 8" SAN
	INV OUT=261.93' 8"SAN
SS3	TOP=279.70'
	INV IN=272.10 8" SAN
	INV OUT=272.00' 8"SAN
SS4	TOP=289.94'
	IN LANE OF TRAVEL
SS5	TOP=261.20'
	INV IN=252.90' 8"SAN
	INV OUT=252.80 8"SAN
SS6	TOP=257.24'
	INV IN=251.46 8" SAN
	INV OUT=251.34' 8"SAN
SS7	TOP=291.15'
	IN LANE OF TRAVEL



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PARK APARTMENTS
DEMOLITION PHASE
FORM DISTRICT PERMIT
1250 EPHESSUS CHURCH ROAD
CHAPEL HILL, NORTH CAROLINA, 27517

REVISIONS

NO.	DATE
-----	------

PLAN INFORMATION

PROJECT NO. WDF-17000
FILENAME WDF17000-XC1
CHECKED BY RTF
DRAWN BY JBT
SCALE 1"=50'
DATE 08. 20. 2019

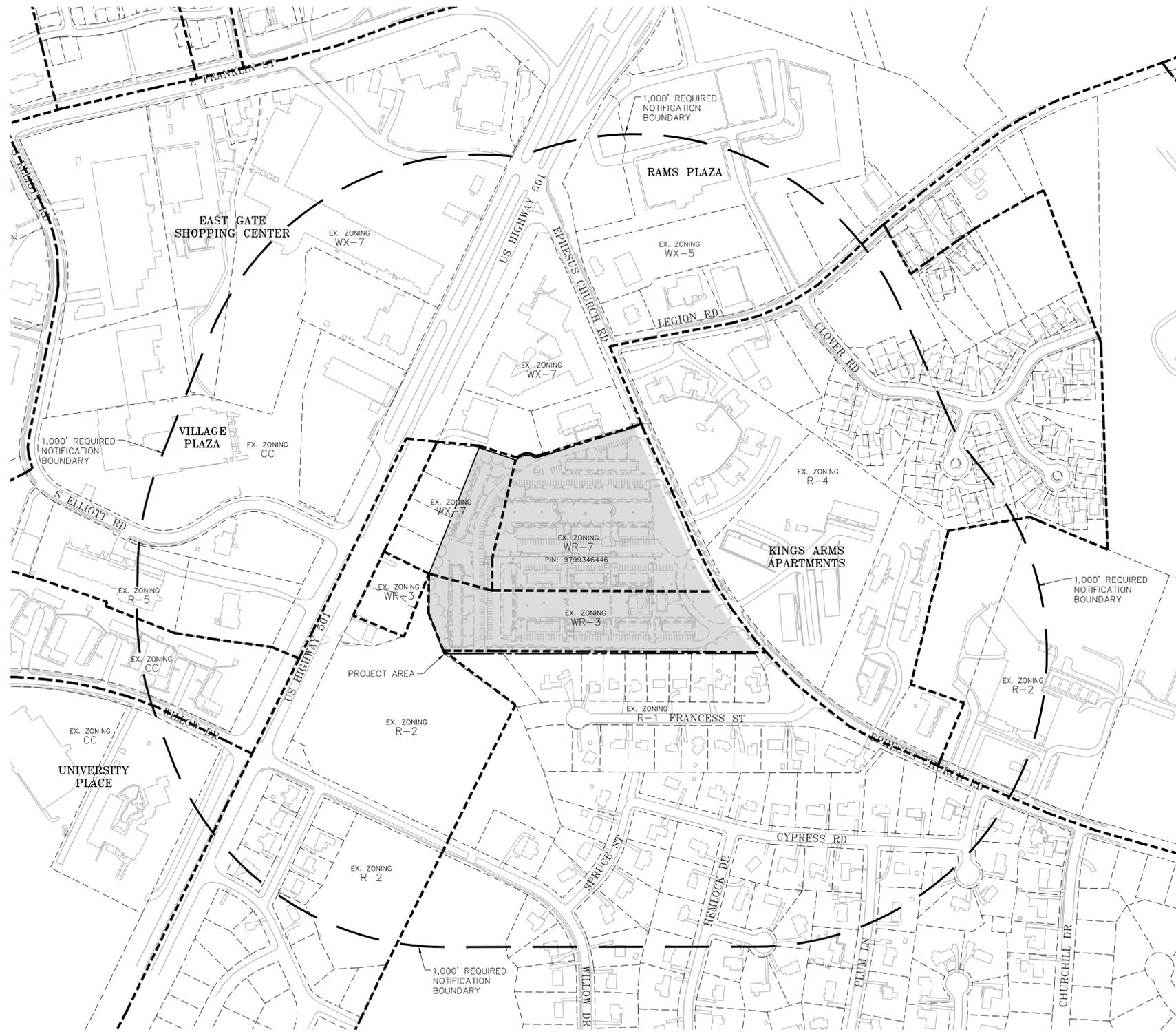
SHEET

EXISTING CONDITIONS

C-1

GENERAL NOTES
 1. PIN'S AND PROPERTY INFORMATION FROM ORANGE COUNTY GIS.
 2. BOUNDARY FROM SURVEY BY TIMMONS GROUP COMPLETED 05/19/2015.

LEGEND
 ——— 1,000' REQUIRED NOTIFICATION BOUNDARY
 [Shaded Area] PROJECT AREA
 - - - - ZONING DISTRICT LINE



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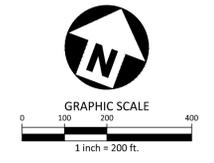
PARK APARTMENTS
 DEMOLITION PHASE
 FORM DISTRICT PERMIT
 1250 EPHEBUS CHURCH ROAD
 CHAPEL HILL, NORTH CAROLINA, 27517



REVISIONS
 NO. DATE

PLAN INFORMATION
 PROJECT NO. WDF-17000
 FILENAME WDF17000-AM1
 CHECKED BY ZNB
 DRAWN BY HMA
 SCALE 1"=200'
 DATE 08.20.2019
SHEET

AREA MAP
C-2



X:\Projects\WDF\WDF-17000\Land\Form District Permits\Current Drawings\WDF17000-DEMOC-AV1.dwg, 8/19/2019 5:06:30 PM, Bales, Nathan

GENERAL NOTES:

- 1. CONTRACTOR TO NOTIFY SURROUNDING PROPERTIES 7 DAYS PRIOR TO STARTING CONSTRUCTION.
- 2. CONTRACTOR TO PROVIDE NOTICE TO THE TOWN OF CHAPEL HILL REGARDING SPECIFIC DATES FOR ANY NECESSARY ROAD CLOSURES AND LANE REDUCTIONS.
- 3. GENERAL CONTRACTOR TO COORDINATE WITH SPECIFIC PROPERTIES AFFECTED BY THE PROPOSED ROAD CLOSURES IF REQUIRED TO ENSURE CONTINUOUS ACCESS TO THE AFFECTED PROPERTIES.
- 4. SETBACKS ARE PROPOSED UNDER THE PLANNED DEVELOPMENT HOUSING PROVISION OF THE LUMO AND ARE NOTED ON THIS SHEET.
- 5. ALL PARKING SHOWN SPACE MARKINGS SHALL BE PER THE TOWN OF CHAPEL HILL CODE FOR PARKING LOTS.
- 6. MINIMUM CORNER CLEARANCES FROM THE CURBLINE OF INTERSECTING STREETS SHALL BE AT LEAST 20' FROM THE POINT OF TANGENCY. NO DRIVEWAYS OR PARKING SPACES SHALL ENCRoACH ON THIS MINIMUM CORNER CLEARANCE.
- 7. WITHIN THE SIGHT DISTANCE TRIANGLES SHALL BE LOCATED BETWEEN 2' AND 8" IN HEIGHT ABOVE THE CURB LINE ELEVATION SHALL BE OBSERVED IN WHOLE OR IN PART. OBSTRUCTIONS INCLUDE BUT ARE NOT LIMITED TO ANY BERM, FOLIAGE, FENCE, WALL, SIGN, OR PARKED VEHICLE.
- 8. ALL CONSTRUCTION SHALL CONFORM TO THE LATEST TOWN OF CHAPEL HILL, NCDOT AND OWASA STANDARDS AND SPECIFICATIONS.
- 9. ALL DIMENSIONS SHOWN ON SITE PLAN ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
- 10. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS FOR EXCAVATIONS; FINAL RULE 29CFR PART 1926, SUBPART "P" APPLIES TO ALL EXCAVATIONS EXCEEDING FIVE (5) FEET IN DEPTH. EXCAVATION EXCEEDING TWENTY (20) FEET IN DEPTH REQUIRES THE DESIGN OF A TRENCH SAFETY SYSTEM BY A REGISTERED PROFESSIONAL ENGINEER, PROVIDED BY CONTRACTOR RESPONSIBLE FOR EXCAVATION.
- 11. EQUIPMENT AND PRODUCTS OTHER THAN THOSE 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 COST RELATED TO THE SUBSTITUTION OF ALTERNATE EQUIPMENT.
- 12. 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.
- 13. CONTRACTOR IS RESPONSIBLE FOR COORDINATING CONSTRUCTION ACTIVITIES WITH THE APPROPRIATE UTILITY COMPANIES FOR ANY REQUIRED RELOCATION (I.E. POWER POLES, TELEPHONE PEDESTALS, WATER METERS, ETC.).
- 14. PRIOR TO STARTING CONSTRUCTION, THE GENERAL CONTRACTOR SHALL SCHEDULE AND HOLD A PRE-CONSTRUCTION CONFERENCE WITH THE TOWN OF CHAPEL HILL ENGINEERING DEPARTMENT, ORANGE COUNTY SOIL AND EROSION DEPARTMENT, ENGINEER, AND OWNER/REPRESENTATIVE.
- 15. ALL DIMENSIONS AND GRADES SHOWN ON THE PLANS 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 CONTRACTOR FOR ANY WORK DONE DUE TO DIMENSIONS OR GRADES SHOWN INCORRECTLY ON THESE PLANS IF SUCH NOTIFICATION HAS NOT BEEN GIVEN.
- 16. ALL STREET NAME SIGNS SHALL CONFORM TO THE LATEST EDITION OF THE MUTCD INCLUDING MIXED CASE LETTERING, PROPER LETTER HEIGHTS, AND RETROREFLECTIVITY.
- 17. ALL ASPHALT EDGES SHALL BE SAW CUT TO PROVIDE A GOOD LONGITUDINAL JOINT. MILL 1.5 FEET AT 1.5 INCHES DEEP MINIMUM TO PROVIDE A LONGITUDINAL LAP JOINT FOR FINAL SURFACE LAYER. NO MILLING SHALL BE LEFT FOR A PERIOD OF TIME GREATER THAN 48 HOURS BEFORE A STREET IS TO BE REPAVED/RESURFACED.
- 18. SEPARATE BUILDING PERMITS ARE REQUIRED FOR RETAINING WALLS, DUMPSTER ENCLOSURES, MONUMENTS, SIGNS, OR OTHER ACCESSORY STRUCTURES OR ELEMENTS.
- 19. EXISTING UTILITIES AND STRUCTURES SHOWN, BOTH UNDERGROUND AND ABOVE GROUND, ARE BASED ON A FIELD SURVEY AND THE BEST AVAILABLE RECORD DRAWINGS. THE CONTRACTOR SHALL VERIFY FIELD CONDITIONS PRIOR TO BEGINNING RELATED CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED TO THE OWNER'S REPRESENTATIVE IMMEDIATELY.
- 20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION AND/OR RELOCATION OF ALL EXISTING UTILITIES IN COORDINATION WITH THE APPROPRIATE UTILITY, AGENCY, OR COMPANY.
- 21. EXISTING CONTOURS ARE BASED ON SURVEY COMPLETED BY TIMMONS. EXISTING UTILITIES SHOWN ARE BASED ON SURVEY AND THE BEST AVAILABLE RECORDS. THE CONTRACTOR, HOWEVER, SHALL VERIFY CONDITIONS PRIOR TO BEGINNING CONSTRUCTION. ANY DISCREPANCIES BETWEEN ACTUAL FIELD CONDITIONS AND THE PLANS SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY. FOR NECESSARY PLAN OR GRADE CHANGES, NO EXTRA COMPENSATION SHALL BE PAID TO CONTRACTOR FOR ANY WORK DONE DUE TO DIMENSIONS OR GRADES SHOWN INCORRECTLY ON THESE PLANS IF SUCH NOTIFICATION HAS NOT BEEN GIVEN.
- 22. EXISTING IMPROVEMENTS DAMAGED DURING CONSTRUCTION SHALL BE REPLACED/RESTORED TO THEIR ORIGINAL CONDITION OR TO THE SATISFACTION OF THE OWNER BY THE CONTRACTOR RESPONSIBLE FOR THE DAMAGE.
- 23. A SINGLE ELECTRICAL SERVICE SHALL BE PROVIDED TO SERVE EACH STRUCTURE WITH THE EXCEPTION OF THE FIRE PUMP.
- 24. MECHANICAL EQUIPMENT MUST BE PLACED AT OR ABOVE THE BASE FLOOD ELEVATION PLUS 2 FEET.
- 25. A ZONE FOR FIRE DEPARTMENT LADDERS AND FIREFIGHTING OPERATIONS MUST BE PROVIDED, REQUIRING ALL LINES TO BE BURIED SURROUNDING STRUCTURES.
- 26. BACK WASH WATER FROM THE POOL SHALL DISCHARGE INTO SANITARY SEWER AND NOT STORM SEWER.
- 27. CONTRACTOR TO CONTACT THE CHAPEL HILL STORMWATER MANAGEMENT DIVISION AT 919-969-7246 TO SCHEDULE SITE INSPECTION AT LEAST TEN (10) DAYS IN ADVANCE OF REQUESTING THE CERTIFICATE OF OCCUPANCY.
- 28. IMPROVEMENTS, STRUCTURES, FIXTURES, SIGNS, TABLES, CHAIRS, PLANTERS, OR ANY OTHER OBJECT SHALL NOT BE PLACED IN SIDEWALK AREAS FOR ANY PERIOD OF TIME.
- 29. FLOOR DRAINS FROM THE ROOFED PARKING AREA AND HVAC CONDENSATE SHALL NOT BE CONNECTED TO THE STORM SEWER SYSTEM.
- 30. ANY ROOF DRAINS OR OTHER PLUMBING INTENDED TO DISCHARGE TO THE STORM SEWER SYSTEM NOT SHOWN ON THE APPROVED PLANS ARE NOT APPROVED. ANY DISCHARGE DIRECTED TO THE STORM SEWER SYSTEM THAT IS NOT APPROVED WILL NEED TO APPROVAL FROM THE TOWN OF CHAPEL HILL STORMWATER MANAGEMENT DIVISION.
- 31. THE NORTH CAROLINA DEPARTMENT OF INSURANCE SHALL REVIEW AND APPROVE ANY PROJECTS LISTED IN TABLE 104.1 OF THE NORTH CAROLINA ADMINISTRATION AND POLICES CODE BEFORE THE TOWN OF CHAPEL HILL WILL BEGIN ITS BUILDING PERMIT REVIEW.
- 32. A SINGLE ELECTRICAL SERVICE SHALL BE PROVIDED TO SERVE THE STRUCTURE WITH THE EXCEPTION OF THE FIRE PUMP, IN ACCORDANCE WITH ARTICLE 230.2(A) OF THE 2017 NORTH CAROLINA ELECTRICAL CODE.
- 33. CURB AND GUTTER AND ATLEAST THE FIRST LIFT OF ASPHALT FOR THE ROADS MUST BE PLACED PRIOR TO THE START OF CONSTRUCTION.
- 34. PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY, THE APPLICANT SHALL PROVIDE THE MINIMUM REQUIRED HANDICAPPED PARKING SPACES AND DESIGN ALL HANDICAPPED PARKING SPACES, RAMPS, CROSSWALKS, AND ASSOCIATED INFRASTRUCTURE ACCORDING TO THE AMERICANS WITH DISABILITIES ACT STANDARDS, NORTH CAROLINA BUILDING CODE, AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) CODE, AND TOWN STANDARD.
 - A. THE NUMBER OF PARKING SPACES SHALL COMPLY WITH NCBC 2018 SECTION 1106.1.1 PER 6 COMPLIANT SPACES OR PORTION THEREOF MUST BE VAN ACCESSIBLE. NO SLOPE SHALL EXCEED 2% IN ANY DIRECTION. SIGNAGE SHALL BE PLACED IN ACCORDANCE WITH NCBC 2018 REQUIREMENTS, MUTCD AND ACC A 117.1.
 - B. CURB CUTS AND ACCESSIBLE ROUTES PER ICC A117.1 2009 EDITION. CROSS SLOPE LIMITED TO 2%. CALL TOWN OF CHAPEL HILL BUILDING INSPECTIONS OFFICE FOR INSPECTION PRIOR TO PLACEMENT OF CONCRETE.
 - C. SLOPES GREATER THAN 5% REQUIRES CONSTRUCTION AS A RAMP.

GRADING & STORM DRAINAGE NOTES:

- 1. CONTRACTOR SHALL NOTIFY NC 811 (1-800-632-4949) AT LEAST 3 FULL BUSINESS DAYS PRIOR TO BEGINNING CONSTRUCTION OR EXCAVATION TO HAVE EXISTING UTILITIES LOCATED. CONTRACTOR TO CONTACT ANY LOCAL UTILITIES THAT PROVIDE THEIR OWN LOCATOR SERVICES INDEPENDENT OF NC 811. REPORT ANY DISCREPANCIES TO THE ENGINEER IMMEDIATELY.
- 2. PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL HOLD A PRE-CONSTRUCTION CONFERENCE WITH THE ORANGE COUNTY SOIL AND EROSION CONTROL OFFICER, TOWN OF CHAPEL HILL STORM WATER MANAGEMENT DIVISION, AND OWNER'S REP/ENGINEER.
- 3. CONTRACTOR TO CONTACT MICHAEL WRIGHT WITH THE TOWN OF CHAPEL HILL AT 919-969-5084 TO POST EROSION CONTROL BOND PRIOR TO ANY LAND DISTURBANCE.
- 4. GRADING AND CONTOURS ARE BASED ON NORTH AMERICAN VERTICAL DATUM 88 (NAVD88).
- 5. SOIL UNDER BUILDINGS AND PAVED AREAS SHALL BE APPROVED, PLACED AND COMPACTED AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER AND SHOULD MEET OR EXCEED TOWN OF CHAPEL HILL STANDARDS.
- 6. GRADING IN AREAS DESIGNATED AS "ACCESSIBLE" SHALL COMPLY WITH ALL FEDERAL AND LOCAL ACCESSIBILITY RULES AND GUIDELINES. EVEN THOUGH PLANS MAY NOT SHOW ALL SPOT ELEVATIONS IN THESE REGIONS, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ASSURE THAT THE AREAS ARE GRADED TO AMERICAN DISABILITY ACT (ADA) COMPLIANT SPECIFICATIONS.
- 7. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO IDENTIFY AREAS WHERE SPILL CURBS IS NECESSARY TO CONVEY RUNOFF TO THE NEAREST CATCH BASIN OR DROP INLET. THE OWNER AND/OR ENGINEER SHALL NOT BE HELD RESPONSIBLE FOR CURBING INSTALLED PRIOR TO PAVING THAT DOES NOT DRAIN PROPERLY.
- 8. ALL PROPOSED INLETS, CATCH BASINS, AND DROP INLETS SHALL BE PROTECTED BY EROSION CONTROL MEASURES AS SHOWN AND SPECIFIED ON THE EROSION CONTROL PLAN
- 9. THE CURB INLETS AND YARD INLETS SHALL BE CONSTRUCTED IN THE LOCATIONS SHOWN UNLESS OTHERWISE DIRECTED BY THE ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR REPORTING ANY DISCREPANCIES IN THE CATCH BASIN ELEVATIONS OR THE PROPOSED PIPE SLOPES TO THE ENGINEER. THE CONTRACTOR IS ALSO RESPONSIBLE TO REPORT ANY CONFLICTS BETWEEN ANY UTILITY, STORM DRAIN LINE, WATER LINE, SEWER LINE OR ANY OTHER PROPOSED OR EXISTING STRUCTURE TO THE ENGINEER.
- 10. THE CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE AWAY FROM ALL BUILDING FOUNDATIONS. THE CONTRACTOR SHALL FIELD VERIFY GRADES SURROUNDING ALL BUILDINGS PRIOR TO GRADING ACTIVITIES AND REPORT ANY DISCREPANCIES TO THE ENGINEER IMMEDIATELY.
- 11. PIPE SPECIFIED AS RCP MAY BE SUBSTITUTED IF APPROVED BY THE TOWN OF CHAPEL HILL WITH APPROVED MATERIALS PER THE TOWN OF CHAPEL HILL STANDARDS AND SPECIFICATIONS OUTSIDE OF PUBLIC RIGHT OF WAY AND EASEMENTS. ALL BEDDING FOR ALTERNATE MATERIALS SHALL CONFORM TO NCDOT, AASHTO AND ASTM SPECIFICATIONS.
- 12. THE MINIMUM PIPE SIZE WITHIN A PUBLIC RIGHT-OF-WAY IS 15".
- 13. FOR ALL PIPE OUTLETS 60" AND GREATER (SINGLE) AND 36" (MULTIPLE) HEADWALLS/ENDWALLS SHALL BE USED AND A 4" HIGH BLACK POLY COATED CHAIN LINK FENCE PLACED OVER THE WALL.
- 14. FOR NPDES PERMIT COMPLIANCE: ALL SLOPES 3:1 AND STEEPER MUST BE STABILIZED WITHIN 7 DAYS. ALL OTHER AREAS MUST BE STABILIZED WITHIN 14 DAYS.
- 15. ALL STORM PIPE SPECIFIED AS REINFORCED CONCRETE (RCP) SHALL BE MINIMUM CLASS III PIPE.
- 16. ALL STORM PIPE SHALL BE LAID AT LEAST 10' HORIZONTALLY OR 18" VERTICALLY FROM ANY WATER MAIN AND 24" VERTICALLY FROM ANY SEWER MAIN. REFER TO NCAC 02T RULES FOR EXEMPTIONS.
- 17. GEOTEXTILE FABRIC OR APPROVED EQUIVALENT ARE REQUIRED AT ALL DISSIPATOR PADS.

FIRE DEPARTMENT NOTES:

- 1. SITE SHALL COMPLY WITH THE LATEST NATIONAL BUILDING AND FIRE CODES.
- 2. FUNCTIONAL FIRE PROTECTION SHALL BE PROVIDED PRIOR TO THE ARRIVAL OF COMBUSTIBLE MATERIALS ON THE SITE.
- 3. FIRE ACCESS ROUTE SHALL HAVE A MINIMUM RADIIUS OF 28' (FACE OF CURB) TO ALLOW FIRE APPARATUS ACCESS THROUGH SITE (IFC 503.2.4).
- 4. ANY GATES ACROSS FIRE APPARATUS ACCESS ROADS SHALL BE A MINIMUM WIDTH OF 20', BE OF SWINGING OR SLIDING TYPE AND HAVE AN EMERGENCY MEANS OF OPERATION. ALL GATES IN FIRE TRUCK APPARATUS ACCESS ROUTES SHALL BE OPERABLE BY EITHER FORCIBLE ENTRY OR KEYS AND MUST BE CAPABLE OF BEING OPERATED BY ONE PERSON. ALL GATES IN FIRE TRUCK APPARATUS ACCESS ROUTES SHALL BE INSTALLED AND MAINTAINED ACCORDING TO UL375 AND ASTM F2200.
- 5. ALL PORTIONS OF THE FIRST FLOOR OF THE BUILDING MUST BE WITHIN 150' OF THE FIRE ACCESS ROUTE (IFC 503.1.1)
- 6. BUILDING ADDRESSES SHALL BE PLACED ON BOTH SIDES OF THE BUILDING ON A CLEARLY VISIBLE PLACARD FOR LOCATION PURPOSES.
- 7. ALL FIRE TRUCK ACCESSIBLE ROUTES SHALL BE RATED FOR 80,000 LB AND HAVE A MINIMUM CLEAR WIDTH OF 26' (IFC 503.2.1).
- 8. FIRE RISER ROOM SHALL BE EQUIPPED WITH AN EXTERNAL LOCK BOX.
- 9. RISER ROOM SHALL HAVE ADEQUATE DRAINAGE FOR EMERGENCY RPZ DISCHARGE.
- 10. PRIVATE FIRE SERVICE MAINS AND APPURTENCES SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 24, NC FPC 507.2.1.
- 11. ALL CONSTRUCTION AND DEMOLITION CONDUCTED SHALL BE IN COMPLIANCE WITH THE CURRENT EDITION OF CHAPTER 14 OF THE NC FPC.
- 12. OPEN BURNING OF TREES, LIMBS, STUMPS, AND CONSTRUCTION DEBRIS ASSOCIATED WITH THIS DEVELOPMENT IS PROHIBITED.
- 13. DURING CONSTRUCTION, VEHICLE ACCESS FOR FIRE FIGHTING SHALL BE PROVIDED. TEMPORARY STREET SIGNS SHALL BE INSTALLED AT EACH STREET INTERSECTION WHEN CONSTRUCTION ALLOWS PASSAGE OF VEHICLES. SIGNS SHALL BE OF AN APPROVED SIZE, WEATHER RESISTANT AND MAINTAINED UNTIL REPLACED BY PERMANENT SIGNS.
- 14. THE OWNER/DEVELOPER SHALL DESIGNATE ONE PERSON TO BE THE FIRE PREVENTION PROGRAM SUPERINTENDENT WHO SHALL BE RESPONSIBLE FOR ENFORCING CHAPTER 14 OF THE NC FPC AND THE ON-SITE FIRE PREVENTION PROGRAM AND ENSURE THAT IT IS CARRIED OUT THROUGH COMPLETION OF THE PROJECT.

ORANGE WATER AND SEWER AUTHORITY UTILITY NOTES:

- 1. STANDARDS AND SPECIFICATIONS - ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH OWASA STANDARDS AND SPECIFICATIONS LATEST REVISED EDITION.
- 2. PRECONSTRUCTION CONFERENCE - A PRECONSTRUCTION CONFERENCE WITH THE OWASA CONSTRUCTION INSPECTOR IS REQUIRED BEFORE BEGINNING ANY UTILITY CONSTRUCTION.
- 3. PROJECT ACCEPTANCE - IN ADDITION TO A FINAL INSPECTION APPROVED BY THE OWASA CONSTRUCTION INSPECTOR, THE FOLLOWING DOCUMENTS MUST BE RECEIVED AND APPROVED BY OWASA BEFORE ACCEPTANCE OF THE PROJECT AND THE SETTING OF METERS:
 - ENGINEER'S CERTIFICATION OF PUBLIC SEWER - ORIGINAL DOCUMENT
 - ENGINEER'S CERTIFICATION OF PUBLIC WATER - ORIGINAL DOCUMENT
 - ASSET LETTER - ORIGINAL DOCUMENT
 - LETTER OF DEDICATION - ORIGINAL DOCUMENT
 - AS BUILT DRAWINGS INCLUDING 1"-100' SCALE SITE PLAN AS BUILTSOF SEWER CONSTRUCTION SUBJECT TO REVIEW AND APPROVAL BY NCEMERS DIVISION OF WATER QUALITY.
 - MANHOLE DATA SHEETS
 - RECORDED PLAT
 - ORIGINAL RECORDED WATER AND SEWER DEEDS OF EASEMENT - PREPARED USING OWASA'S STANDARD FORM.
- 4. SEWER STATEMENT - SEWER LINES UNDER CONSTRUCTION SHALL BE PLUGGED WITH A MECHANICAL PLUG AT THE FIRST MANHOLE UPSTREAM FROM THE POINT OF CONNECTION. PLUG SHALL BE PLACED IN THE OUTLET CONNECTION AND SECURED WITH STEEL CABLE. PLUG SHALL REMAIN IN PLACE UNTIL ACCEPTANCE OF LINES BY OWASA. WATER, STONE, DIRT, OR ANY OTHER DEBRIS SHALL NOT BE ALLOWED TO ENTER THE OWASA SANITARY SEWER SYSTEM DURING FLUSHING OPERATIONS OR AT ANY OTHER TIME. CONSTRUCTION TAKING PLACE IN THE VICINITY OF ANY EXISTING OWASA SEWER LINES OR MANHOLES SHALL NOT CAUSE ANY INFLOW OF SURFACE WATER OR DEBRIS TO ENTER THE REMAIN ACCESSIBLE AT ALL TIMES. THE OWNER AND/OR CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES INCURRED TO THE OWASA SANITARY SEWER SYSTEM AND FINES IMPOSED BY THE STATE OF NORTH CAROLINA DIVISION OF WATER QUALITY DUE TO SEWER SPILLS OR OVERFLOWS.
- 5. SEWER SERVICES - SEWER SERVICES LOCATED WITHIN PUBLIC RIGHT-OF-WAY OR OWASA SEWER EASEMENTS MUST BE CONSTRUCTED OF DUCTILE IRON PIPE FROM THE TAP UP TO AND INCLUDING THE FIRST SERVICE OUTLET, EXCEPT FOR DEAD END MANHOLES, ALL 4" INCH SEWER SERVICES MUST BE TAPPED INTO THE SEWER MAIN. ALL 6" SERVICES MUST BE CONNECTED TO A MANHOLE. CLEANOUTS SHALL BE SPACED NO MORE THAN 75 FEET APART. CLEANOUTS LOCATED IN PAVEMENT AREAS SHALL BE HEAVY DUTY TRAFFIC RATED CONSTRUCTION.
- 6. BLOCKING AND RODDING - RETAINER GLANDS TO BE USED ON ALL MECHANICAL JOINTS IN ADDITION TO RODDING AND BLOCKING.
- 7. EXISTING VALVES - CONTRACTOR RESPONSIBLE FOR VERIFYING THAT EXISTING VALVE AT THE POINT OF CONNECTION TO THE OWASA SYSTEM IS ADEQUATE FOR PERFORMING AND PASSING HYDROSTATIC PRESSURE AND LEAKAGE TEST. CONTRACTOR, AT HIS EXPENSE, MAY OPTIONALLY REPLACE VALVE OR INSTALL A NEW VALVE FOR THE PURPOSE OF PERFORMING A PRESSURE TEST FOR NEW MAIN INSTALLATION. IF CONTRACTOR ELECTS TO PRESSURE TEST AGAINST EXISTING VALVE, CONTRACTOR ACCEPTS RESPONSIBILITY FOR ENSURING PASSING PRESSURE TEST IN ACCORDANCE WITH OWASA REQUIREMENTS. IN ANY CASE, NO CLAIM WHATSOEVER SHALL BE MADE AGAINST OWASA FOR FAILURE OF PRESSURE TEST. EXISTING WATER VALVES SHALL BE OPERATED BY OWASA PERSONNEL ONLY. VALVES THAT SEPARATE PURITY APPROVED WATER AND UNAPPROVED WATER ARE TO REMAIN CLOSED AT ALL TIMES. VALVES MAY BE TEMPORARILY OPENED FOR LOADING AND FLUSHING BY THE OWASA INSPECTOR ONLY.
- 8. DECHLORINATION REQUIREMENTS - THE CONTRACTOR SHALL BE RESPONSIBLE FOR NEUTRALIZATION OF CHLORINATED WATER AT THE POINT OF DISCHARGE FROM THE MAIN BEING TESTED. THIS SHALL OCCUR FOLLOWING CHLORINATED TO DISINFECT A MAIN OR ANY OTHER TIME WHEN ELEVATED LEVELS OF CHLORINE COULD POTENTIALLY BE DISCHARGED INTO THE ENVIRONMENT BY THE CONTRACTOR. AT THE TIME THE DISINFECTION AND PURITY TESTING PROCEDURES ARE DISCUSSED WITH THE OWASA CONSTRUCTION INSPECTOR, THE PROCEDURE FOR DECHLORINATION WILL BE COVERED. ABSOLUTELY NO FLUSHING, DISINFECTION, OR PURITY SAMPLING IS TO TAKE PLACE WITHOUT PRIOR APPROVAL OF A SAMPLING PLAN BY THE OWASA INSPECTOR.
- 9. DEWATERING OF THE POOL SHALL NOT DISCHARGE INTO STORM SYSTEM UNLESS DE-CHLORINATED PRIOR TO DEWATERING.
- 10. PLEASE BE ADVISED THAT OWASA APPROVAL OF THIS PROJECT IS FOR COMPLIANCE WITH OWASA POLICES, STANDARDS, AND SPECIFICATIONS ONLY. ALL OTHER MATTERS PERTAINING TO THIS PROJECT ARE THE RESPONSIBILITY OF THE DESIGN ENGINEER. OWASA APPROVAL DOES NOT PRECLUDE THE DEVELOPER, PROJECT ENGINEER, CONTRACTOR, OR OTHER AGENTS OR PARTIES ACTING ON THEIR BEHALF FROM FULL COMPLIANCE WITH OWASA CURRENT STANDARDS, SPECIFICATIONS, AND PROCEDURES OR FROM COMPLYING WITH ANY AND ALL STATUTES, RULES, REGULATIONS, AND ORDINANCES WHICH MAY BE IMPOSED BY OTHER GOVERNMENT AGENCIES (LOCAL, STATE, AND FEDERAL) WHICH MAY HAVE JURISDICTION. VIOLATIONS WILL RESULT IN THE OWASA PROJECT APPROVAL BEING RESCINDED.
- 11. CONTACT NC 811 (811 OR 1-800-632-4949) AND OWASA (919-968-4421) AT LEAST 3 FULL BUSINESS DAYS PRIOR TO ANY EXCAVATION OR CONSTRUCTION TO HAVE EXISTING UTILITIES LOCATED.
- 12. DISCHARGE FROM THIS PROJECT MUST BE IN COMPLIANCE WITH THE OWASA SEWER USE ORDINANCE. A GREASE INTERCEPTOR SHALL BE PROVIDED WHEN IN THE OPINION OF OWASA IT IS NECESSARY FOR THE PROPER HANDLING OF WASTEWATER CONTAINING EXCESSIVE AMOUNTS OF GREASE. ALL INTERCEPTION UNITS MUST BE OF THE TYPE AND CAPACITY WHICH IS CERTIFIED BY THE PROJECT ENGINEER AS MEETING THE REQUIREMENTS OF OWASA.
- 13. BACKFLOW PREVENTION WILL BE REQUIRED IN ACCORDANCE WITH OWASA CROSS-CONNECTION CONTROL ORDINANCE AND MANUAL.
- 14. DOMESTIC SERVICE TO INCLUDE REDUCED PRESSURE BACKFLOW PREVENTION ASSEMBLY.
- 15. FIRE SERVICE TO INCLUDE RPDA BACKFLOW DEVICE.
- 16. FIRE PROTECTION SYSTEMS - PRESSURE TESTING, CHLORINATION, AND PURITY TESTING SHALL BE COMPLETED BEFORE THE INSTALLATION OF THE RPDA UNIT.
- 17. REMOTE READ-OUT DEVICES - RPDA AND RPZ DEVICES LOCATED INSIDE BUILDINGS MUST BE EQUIPPED WITH AN AMR METER TO BE PURCHASED FROM OWASA AND INSTALLED BY THE CONTRACTOR. CONTACT THE OWASA CONSTRUCTION INSPECTOR FOR DETAILS OF THIS INSTALLATION.
- 18. FOR FIRE SERVICE BACKFLOW DEVICES, USE A DOUBLE CHECK DETECTOR, REDUCED PRESSURE ZONE ASSEMBLY MEETING THE STANDARDS OF THE OWASA CROSS CONNECTION CONTROL ORDINANCE AND MANUAL. INSTALL THE DEVICE IN AN INTERNAL RISER ROOM WITH EXTERNAL ACCESS. CLEARANCES SHALL COMPLY WITH THE OWASA CROSS CONNECTION CONTROL ORDINANCES AND MANUAL. ACCESS TO RISER ROOM FROM OUTSIDE SHALL INCLUDE PROVISIONS FOR THE FIRE DEPARTMENT SUCH AS A KNOX BOX.
- 19. ALL BUILDINGS WITH FIRE SUPPRESSION LINES MUST HAVE BACKFLOW DEVICES LOCATED INSIDE THE BUILDING IN AN ABOVE GROUND LOCATION ADJACENT TO THE OUTSIDE WALL WHERE THE WATERLINE ENTERS THE BUILDING.
- 20. FOR IRRIGATION SERVICE BACKFLOW DEVICE, USE A REDUCED PRESSURE ZONE ASSEMBLY MEETING THE STANDARDS OF THE OWASA CROSS CONNECTION CONTROL ORDINANCE AND MANUAL. INSTALL THE IRRIGATION DEVICE INSIDE AN ABOVE GROUND HOT BOX.
- 21. UNDERGROUND VAULTS FOR METERS SHALL BE DRAINED BY PVC SCHEDULE 40 DRAINS TO DAYLIGHT INTO SLOPES. CONNECTION TO STORM STRUCTURES IS ONLY ALLOWED WITH THE CONSENT OF OWASA. DRAIN SIZES SHALL BE 2" DIAMETER FOR METERS OR DEVICES LESS THAN 2" AND SHALL BE 4" DIAMETER FOR DEVICES OVER 2".
- 22. CONNECTION OF SANITARY SEWER SERVICE TO AN EXISTING MANHOLE SHALL COMPLY WITH OWASA STANDARDS, INCLUDING: CORE DRILL FOR OPENING INTO MANHOLE AND INSTALL WITH FLEXIBLE BOOT. IF PAVEMENT CUT IS REQUIRED, CONTRACTOR SHALL PATCH PAVEMENT IN ACCORDANCE WITH TOWN OF CHAPEL HILL STANDARDS AND PROPER GEOTECHNICAL INFORMATION FOR SOIL LOADING.
- 23. IF HYDRAULIC ELEVATORS ARE USED THE SUMP MUST BE PLUMBED TO SANITARY SEWER LINES.
- 24. FIRE HYDRANTS MUST BE FULLY FUNCTIONAL AND PHYSICALLY APPROVED BY OWASA BEFORE COMBUSTIBLE MATERIALS CAN BE BROUGHT ON TO THE SITE.

PAVEMENT MARKING/SIGNAGE NOTES:

- 1. ALL SIGNAGE SHALL BE COORDINATED WITH THE TOWN OF CHAPEL HILL.
- 2. ALL SIGNAGE SHALL MEET MUTCD STANDARDS AND SPECIFICATIONS.
- 3. ALL SIGNAGE SHALL MEET NCDOT PEDESTRIAN SAFETY SPECIFICATIONS.
- 4. ALL CONSTRUCTION SHALL CONFORM TO THE LATEST NORTH CAROLINA DEPARTMENT OF TRANSPORTATION (NCDOT) AND/OR TOWN OF CHAPEL HILL STANDARDS AND SPECIFICATIONS.
- 5. ALL SIGNS SHALL BE PRISMATIC AND ADHERE TO THE MINIMAL RETROREFLECTIVITY STANDARDS FOUND IN THE LATEST VERSION OF THE MUTCD.
- 6. ALL PAVEMENT MARKINGS ON PUBLIC STREETS SHALL BE THERMOPLASTIC AND ARE TO BE PLACED PER NCDOT STANDARDS (REFERENCE 2012 NCDOT DETAILS (1205.01-1205.12)
- 7. SIGN DESIGNS FOR STREET NAME SIGNS SHALL BE APPROVED BY TRANSPORTATION/ENGINEERING DEPARTMENT STAFF TO ENSURE COMPLIANCE WITH MUTCD SPECIFICATIONS. DESIGNS MUST BE APPROVED BY TOWN STAFF PRIOR TO ACCEPTANCE OF STREETS OR ISSUANCE OF 1ST CO.
- 8. ALL STREET NAME SIGNS SHALL CONFORM TO THE LATEST EDITION OF THE MUTCD INCLUDING MIXED CASE LETTERING, PROPPER LETTER HEIGHTS, AND RETROREFLECTIVITY.

ORANGE COUNTY SOLID WASTE STANDARD PLAN NOTES (CONSTRUCTION WASTE):

- 1. ALL EXISTING STRUCTURES 500 SQUARE FEET AND LARGER SHALL BE ASSESSED PRIOR TO THE ISSUANCE OF A DEMOLITION PERMIT TO ENSURE COMPLIANCE WITH THE COUNTY'S REGULATED RECYCLABLE MATERIALS ORDINANCE (RRMO) AND TO ASSESS THE POTENTIAL FOR DECONSTRUCTION AND/OR THE REUSE OF SALVAGEABLE MATERIALS. CONTACT THE ORANGE COUNTY SW ENFORCEMENT OFFICER AT 919-968-2788 TO ARRANGE FOR THE ASSESSMENT.
- 2. PURSUANT TO THE COUNTY'S RRMO, CLEAN WOOD WASTE, SCRAP METAL, AND CORRUGATED CARDBOARD PRESENT IN CONSTRUCTION OR DEMOLITION WASTE MUST BE RECYCLED.
- 3. PURSUANT TO THE COUNTY'S RRMO, ALL HAULERS OF MIXED CONSTRUCTION AND DEMOLITION WASTE WHICH INCLUDES ANY REGULATED RECYCLABLE MATERIALS SHALL BE LICENSED BY ORANGE COUNTY.
- 4. PRIOR TO ANY DEMOLITION OR CONSTRUCTION ACTIVITY ON THE SITE, THE APPLICANT SHALL HOLD A PRE-DEMOLITION/PRE-CONSTRUCTION CONFERENCE WITH SOLID WASTE STAFF. THIS MAY BE THE SAME PRE-CONSTRUCTION MEETING HELD WITH OTHER DEVELOPMENT/ENFORCEMENT OFFICIALS.
- 5. THE PRESENCE OF ANY ASBESTOS CONTAINING MATERIALS (ACM') AND/OR OTHER HAZARDOUS MATERIALS SHALL BE HANDLED IN ACCORDANCE WITH ANY AND ALL LOCAL, STATE, AND FEDERAL REGULATIONS AND GUIDELINES.

LANDSCAPE PROTECTION NOTES:

- 1. PLAN SHOWS RARE AND SPECIMEN TREES IN ACCORDANCE WITH THE ORDINANCE THAT WAS IN EFFECT AT THE TIME OF APPROVAL.
- 2. LANDSCAPING ON EAST SIDE OF SITE ALONG THE ALTERNATIVE BUFFER SHALL BE COORDINATED TO PRESERVE EXISTING TREES AS MUCH AS POSSIBLE. PROPOSED PLANTINGS IN BUFFER MAY ENCRoACH BEHIND "TREE PROTECTION" FENCE. CONFLICTS BETWEEN PROPOSED PLANTINGS AND EXISTING TREES SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT FOR REMEDIATION.
- 3. ALL IRRIGATION SYSTEMS SHALL BE EQUIPPED WITH AUTOMATIC CONTROLLERS THAT ACTIVATE THE SYSTEM ACCORDING TO A DESIRED FREQUENCY AND DURATION, AND SHALL ALSO BE EQUIPPED WITH RAIN OR SOIL MOISTURE SENSORS THAT WILL PREVENT IRRIGATION DURING PERIODS OF RAINFALL OR WHEN THERE IS SUFFICIENT MOISTURE IN THE GROUND FOR PLANT HEALTH AND SURVIVAL IN ACCORDANCE WITH THE LOCAL GOVERNMENT WATER CONSERVATION ORDINANCES.



Know what's below. Call before you dig.

CONTRACTOR SHALL NOTIFY "NC811" (811) OR (1-800-632-4949) AT LEAST 3 FULL BUSINESS DAYS PRIOR TO BEGINNING CONSTRUCTION OR EXCAVATION TO HAVE EXISTING UTILITIES LOCATED. CONTRACTOR SHALL CONTACT ANY LOCAL UTILITIES THAT PROVIDE THEIR OWN LOCATOR SERVICES INDEPENDENT OF "NC811". REPORT ANY DISCREPANCIES TO THE ENGINEER IMMEDIATELY.



McADAMS

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WOODFIELD INVESTMENTS 11425 HORSEMAN'S TRAIL RALEIGH, NC 27613 PHONE: 919. 535. 8947

PARK APARTMENTS DEMOLITION PHASE FORM DISTRICT PERMIT 1250 EPHEsus CHURCH ROAD CHAPEL HILL, NORTH CAROLINA, 27517



REVISIONS

NO. DATE

PLAN INFORMATION

PROJECT NO. WDF-17000 FILENAME WDF17000-N1 CHECKED BY ZNB DRAWN BY HMA SCALE NTS DATE 08. 20. 2019

SHEET

PROJECT NOTES AND TYPICAL SECTIONS

C-3



McAdams

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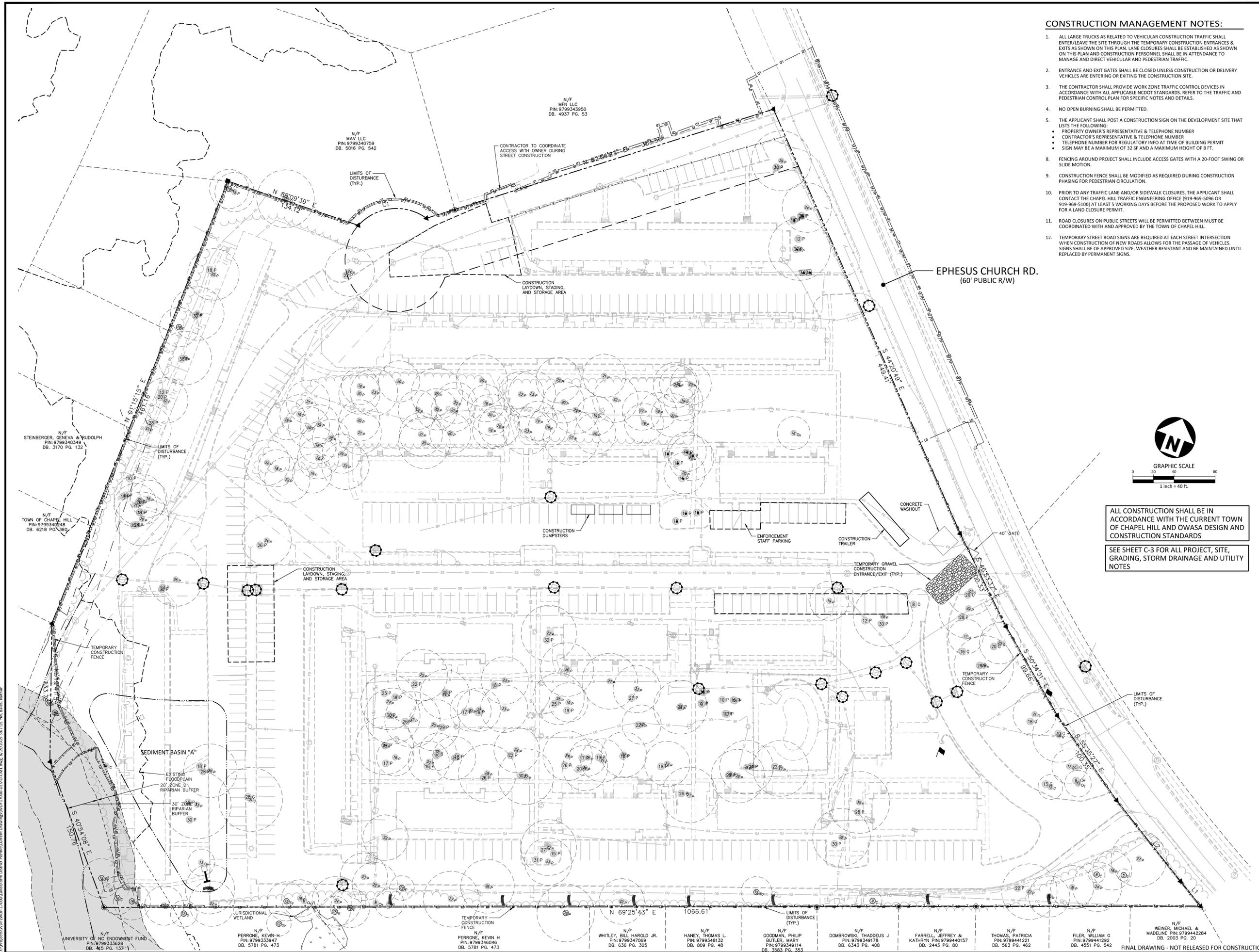
CLIENT

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RALEIGH, NC 27613
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PARK APARTMENTS
DEMOLITION PHASE
FORM DISTRICT PERMIT
1250 EPHEBUS CHURCH ROAD
CHAPEL HILL, NORTH CAROLINA, 27517

CONSTRUCTION MANAGEMENT NOTES:

- ALL LARGE TRUCKS AS RELATED TO VEHICULAR CONSTRUCTION TRAFFIC SHALL ENTER/LEAVE THE SITE THROUGH THE TEMPORARY CONSTRUCTION ENTRANCES & EXITS AS SHOWN ON THIS PLAN. LANE CLOSURES SHALL BE ESTABLISHED AS SHOWN ON THIS PLAN AND CONSTRUCTION PERSONNEL SHALL BE IN ATTENDANCE TO MANAGE AND DIRECT VEHICULAR AND PEDESTRIAN TRAFFIC.
- ENTRANCE AND EXIT GATES SHALL BE CLOSED UNLESS CONSTRUCTION OR DELIVERY VEHICLES ARE ENTERING OR EXITING THE CONSTRUCTION SITE.
- THE CONTRACTOR SHALL PROVIDE WORK ZONE TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH ALL APPLICABLE NCDOT STANDARDS. REFER TO THE TRAFFIC AND PEDESTRIAN CONTROL PLAN FOR SPECIFIC NOTES AND DETAILS.
- NO OPEN BURNING SHALL BE PERMITTED.
- THE APPLICANT SHALL POST A CONSTRUCTION SIGN ON THE DEVELOPMENT SITE THAT LISTS THE FOLLOWING:
 - PROPERTY OWNER'S REPRESENTATIVE & TELEPHONE NUMBER
 - CONTRACTOR'S REPRESENTATIVE & TELEPHONE NUMBER
 - TELEPHONE NUMBER FOR REGULATORY INFO AT TIME OF BUILDING PERMIT
 - SIGN MAY BE A MAXIMUM OF 32 SF AND A MAXIMUM HEIGHT OF 8 FT.
- FENCING AROUND PROJECT SHALL INCLUDE ACCESS GATES WITH A 20-FOOT SWING OR SLIDE MOTION.
- CONSTRUCTION FENCE SHALL BE MODIFIED AS REQUIRED DURING CONSTRUCTION PHASING FOR PEDESTRIAN CIRCULATION.
- PRIOR TO ANY TRAFFIC LANE AND/OR SIDEWALK CLOSURES, THE APPLICANT SHALL CONTACT THE CHAPEL HILL TRAFFIC ENGINEERING OFFICE (919-969-5056 OR 919-969-5100) AT LEAST 5 WORKING DAYS BEFORE THE PROPOSED WORK TO APPLY FOR A LAND CLOSURE PERMIT.
- ROAD CLOSURES ON PUBLIC STREETS WILL BE PERMITTED BETWEEN MUST BE COORDINATED WITH AND APPROVED BY THE TOWN OF CHAPEL HILL.
- TEMPORARY STREET ROAD SIGNS ARE REQUIRED AT EACH STREET INTERSECTION WHEN CONSTRUCTION OF NEW ROADS ALLOWS FOR THE PASSAGE OF VEHICLES. SIGNS SHALL BE OF APPROVED SIZE, WEATHER RESISTANT AND BE MAINTAINED UNTIL REPLACED BY PERMANENT SIGNS.



ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT TOWN OF CHAPEL HILL AND OWASA DESIGN AND CONSTRUCTION STANDARDS

SEE SHEET C-3 FOR ALL PROJECT, SITE, GRADING, STORM DRAINAGE AND UTILITY NOTES



REVISIONS

NO.	DATE

PLAN INFORMATION

PROJECT NO.	WDF-17000
FILENAME	WDF17000-CM1
CHECKED BY	ZNB
DRAWN BY	HMA
SCALE	1"=40'
DATE	08.20.2019

SHEET

CONSTRUCTION MANAGEMENT PLAN

C-5

FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

X:\Projects\WDF\WDF-17000\Land\Form District Permits\Drawings\WDF17000-DEMOC-CM1.dwg, 8/19/2019 5:07:15 PM, Bales, Nathan

- N/F STEINBERGER, GENEVA & RUDOLPH PIN: 9799340349 DB: 3170 PG. 132
- N/F TOWN OF CHAPEL HILL PIN: 9799340248 DB: 6218 PG. 360
- N/F UNIVERSITY OF NC ENDOWMENT FUND PIN: 9799333628 DB: N/A PG. 137-1
- N/F PERRONE, KEVIN H PIN: 9799333947 DB: 5781 PG. 473
- N/F PERRONE, KEVIN H PIN: 9799346046 DB: 5781 PG. 473
- N/F WHITLEY, BILL HAROLD JR. PIN: 9799347069 DB: 636 PG. 305
- N/F HANEY, THOMAS L. BUTLER, MARY PIN: 9799348132 DB: 809 PG. 48
- N/F GOODMAN, PHILIP PIN: 9799349114 DB: 3583 PG. 353
- N/F DOMBROWSKI, THADDEUS J. PIN: 9799349176 DB: 6343 PG. 408
- N/F FARRELL, JEFFREY & KATHRYN PIN: 9799440157 DB: 2443 PG. 80
- N/F THOMAS, PATRICIA PIN: 9799441221 DB: 563 PG. 462
- N/F FILER, WILLIAM G. PIN: 9799441292 DB: 4551 PG. 542
- N/F WENER, MICHAEL & MADLINE PIN: 9799442284 DB: 2003 PG. 20
- N/F MFN LLC PIN: 9799343950 DB: 4937 PG. 53
- N/F MAY LLC PIN: 9799340759 DB: 5016 PG. 542

CONSTRUCTION SEQUENCE – STAGE 1

- OBTAIN A LAND-DISTURBING PERMIT AND SCHEDULE A PRECONSTRUCTION CONFERENCE WITH ORANGE COUNTY EROSION CONTROL OFFICER, WESLEY POOLE (919)245.2587. PRECONSTRUCTION MEETING SHALL INCLUDE A REPRESENTATIVE FROM OWASA, TOWN OF CHAPEL HILL, TOWN'S URBAN FORESTER, AND OWNER.

NOTE: INSTALL A RURAL TYPE MAILBOX ON THE SITE TO HOLD A COPY OF THE APPROVED EROSION CONTROL PLAN AND TO PROVIDE A PLACE FOR INSPECTORS TO LEAVE INSPECTION REPORT, COMPLIANCE NOTICES, ETC.
- INSTALL GRAVEL CONSTRUCTION ENTRANCE(S) AND TEMPORARY SILT FENCING WITH OUTLETS AS SHOWN ON THE APPROVED PLANS.
- CONTRACTOR SHALL DEMOLISH AND CLEAR ONLY THOSE AREAS NECESSARY TO ACCESS AND INSTALL SEDIMENT BASINS AND TO INSTALL INITIAL PERIMETER DEVICES. INSTALL DIVERSION DITCHES/BERMS AND INLET PROTECTION ON EXISTING INLETS AS SHOWN.
- CONTRACTOR TO DIVERT RUNOFF TO SB-A.
- INSTALL INLET PROTECTION PER ORANGE COUNTY SEC STANDARDS AND SPECIFICATIONS ON ALL INLETS.
- CALL 919.245.2587 FOR ON-SITE INSPECTION BY ORANGE COUNTY EROSION CONTROL.
- BEGIN CLEARING, DEMOLITION OF EXISTING ASPHALT AND GRAVEL AREAS, AND GENERAL GRADING OF STAGE I AREA. MAINTAIN DEVICES AS NEEDED.
- NO MUD SHALL BE TRACKED ONTO EXISTING PAVEMENT OR A NOTICE OF VIOLATION FROM THE EROSION CONTROL DEPARTMENT MAY ENSUE. ADDITIONAL MEASURES MAY BE NECESSARY TO ASSURE THAT NO SEDIMENT LEAVES THE SITE.
- PROVIDE ALL DISTURBED AREAS WITH GROUND COVER WITHIN 14 CALENDAR DAYS AFTER COMPLETION OF ANY PHASE OF CLEARING, GRUBBING OR GRADING. THE SEEDING, SEEDBED PREPARATION, MULCH AND/OR ROLLED EROSION CONTROL PRODUCT INSTALLATION MUST BE IN ACCORDANCE WITH THE SEEDING SCHEDULE PROVIDED IN THIS S&E PLAN. NOTE: SLOPES IN EXCESS OF 3H:1V SHALL BE STABILIZED WITHIN 7 DAYS AND FOR MODERATE SLOPES (SLOPES LESS THAN 3H:1V) SHALL BE STABILIZED WITHIN 14 DAYS.
- WITH APPROVAL FROM ORANGE COUNTY EROSION CONTROL INSPECTOR, CONTINUE TO STAGE 2.

EROSION CONTROL NOTES:

- EROSION AND SEDIMENT CONTROL DEVICES MUST BE INSTALLED AND INSPECTED PRIOR TO ANY GRADING ON SITE. THE CONTRACTOR SHALL CALL FOR A INSPECTION BY ORANGE COUNTY SEDIMENTATION AND EROSION CONTROL (SEC) ONCE INITIAL MEASURES ARE IN PLACE.
- REQUIRED TREE PROTECTION FENCING SHALL BE INSTALLED AND A PRE-CONSTRUCTION CONFERENCE SCHEDULED WITH THE TOWN'S URBAN FORESTER PRIOR TO BEGINNING LAND DISTURBANCE.
- SEDIMENT/EROSION CONTROL DEVICES MUST BE CHECKED AFTER EACH STORM EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ONE HALF THE CAPACITY OF THE DEVICE.
- IN ADDITION TO THE REQUIREMENT DURING CONSTRUCTION FOR THE INSPECTION OF EROSION CONTROL DEVICES AFTER EVERY RAINFALL, THE CONTRACTOR SHALL INSPECT THE EROSION AND SEDIMENT CONTROL DEVICES AND OFFSITE ROADWAYS DAILY, MAKE ANY NECESSARY REPAIRS OR ADJUSTMENTS TO THE DEVICES, REMOVE DEPOSITION OF WET OR DRY SILT ON ADJACENT ROADWAYS AND MAINTAIN INSPECTION LOGS DOCUMENTING THE DAILY INSPECTIONS AND ANY NECESSARY REPAIRS.
- A COPY OF THE APPROVED EROSION CONTROL PLAN MUST BE ON FILE AT THE JOB SITE AT ALL TIMES.
- CONSTRUCTION, MAINTENANCE, AND REMOVAL OF ALL EROSION CONTROL DEVICES ARE THE RESPONSIBILITY OF THE GRADING CONTRACTOR UNLESS OTHERWISE NOTED.
- ANY GRADING BEYOND THE DENUDED LIMITS SHOWN ON THE PLAN IS A VIOLATION OF THE COUNTY EROSION CONTROL ORDINANCE AND IS SUBJECT TO A FINE.
- NO DEBRIS SHALL BE TRACKED ONTO ANY EXISTING PAVED AREAS OR PUBLIC RIGHT OF WAY. IF THE SITUATION OCCURS WHERE MUD, ROCK AND DEBRIS IS TRACKED ONTO PAVEMENT, THE CONTRACTOR SHALL CLEAN THE PAVEMENT AND INSTALL ADDITIONAL MEASURES TO PREVENT THE FUTURE OCCURRENCE.
- DURING THE CONSTRUCTION PHASE, ADDITIONAL EROSION AND SEDIMENT CONTROLS MAY BE REQUIRED IF THE PROPOSED MEASURES DO NOT CONTAIN THE SEDIMENT ON SITE. THE EROSION CONTROL INSPECTOR MAY REQUIRE ADDITIONAL FIELD MEASURES AS NECESSARY TO PROVIDE ADEQUATE PROTECTION FROM RECEIVING WATER COURSES.
- PROTECTION OF EXISTING VEGETATION: AT THE START OF GRADING INVOLVING THE STRIPPING OF TOPSOIL OR LOWERING OF EXISTING GRADE AROUND A TREE, 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. THE TREE PROTECTION FENCING SHALL BE INSTALLED ON THE SIDE OF THE CUT FURTHEST AWAY FROM THE TREE TRUNK AND SHALL REMAIN IN PLACE UNTIL ALL CONSTRUCTION IN THE VICINITY OF THE TREES IS COMPLETE. NO STORAGE OF MATERIALS, FILL, OR EQUIPMENT AND NO TRESPASSING SHALL BE ALLOWED WITHIN THE BOUNDARY OF THE PROTECTED AREA AND SHALL BE POSTED ON THE PROTECTION FENCE. A PROTECTION FENCE CONSTRUCTED OF MATERIAL RESISTANT TO DEGRADATION BY SUN, WIND, AND MOISTURE FOR THE DURATION OF THE CONSTRUCTION, SHALL BE INSTALLED AT THE SAME TIME AS THE EROSION CONTROL MEASURES AND SHALL BE IN PLACE UNTIL ALL CONSTRUCTION IN THE VICINITY OF THE TREES IS COMPLETE.
- A CONSTRUCTION SEQUENCE HAS BEEN PROVIDED. INSTALLATION OF ALL PROPOSED SEDIMENTATION & EROSION CONTROL MEASURES IN THE SEQUENCE(S) PROVIDED AND MAINTENANCE OF THOSE DEVICES IS REQUIRED. THE CONTRACTOR MAY BE ALLOWED, WITH PRIOR APPROVAL FROM THE OWNER, TO COORDINATE CHANGES TO THE PLAN WITH THE ON-SITE SEDIMENTATION & EROSION CONTROL INSPECTOR AND THE ENGINEER.
- PROVIDE INLET PROTECTION AROUND ALL SITE STORM INLETS. PROTECT OPEN PIPES UNDER CONSTRUCTION WITH EITHER PLYWOOD OR WITH MESH AND GRAVEL WEIRS. RUNOFF SHALL NOT BE ALLOWED IN ANY OPEN TRENCH.
- CONTRACTOR TO VERIFY SILT FENCE OUTLET PLACEMENT AT LOW POINTS AS THEY EXIST OR DEVELOP. ADDITIONAL SILT FENCE OUTLETS MAY BE REQUIRED TO PREVENT EROSION DURING AND AFTER CONSTRUCTION AND LAND DISTURBANCE ACTIVITIES. IF ADDITIONAL SILT FENCE OUTLETS ARE NECESSARY, CONTRACTOR TO ADD ADDITIONAL SILT FENCE OUTLETS PER ENGINEER, NCDDE EROSION CONTROL INSPECTOR, OR OWNER DIRECTION. IF PONDING OF WATER OR SEDIMENT OCCURS ALONG SILT FENCE, CONTRACTOR SHALL INSTALL AN ADDITIONAL SILT FENCE OUTLET.
- TEMPORARY DIVERSIONS SHALL BE MAINTAINED DAILY BY CONTRACTOR SO THAT THEY ARE FUNCTIONAL AT THE END OF EACH WORKDAY AND WHEN STOPPING WORK FOR RAIN.

TEMPORARY SKIMMER BASIN SPECIFICATIONS

- CLEAR, GRUB, AND STRIP THE AREA UNDER THE EMBANKMENT OF ALL VEGETATION AND ROOT MAT. REMOVE ALL SURFACE SOIL CONTAINING HIGH AMOUNTS OF ORGANIC MATTER AND STOCKPILE OR DISPOSE OF IT PROPERLY. HAUL ALL OBJECTIONABLE MATERIAL TO THE DESIGNATED DISPOSAL AREA. PLACE TEMPORARY SEDIMENT CONTROL MEASURES BELOW BASIN AS NEEDED.
- ENSURE THAT FILL MATERIAL FOR THE EMBANKMENT IS FREE OF ROOTS, WOODY VEGETATION, ORGANIC MATTER AND OBJECTIONABLE MATERIAL. PLACE THE FILL IN LIFTS NOT TO EXCEED 9 INCHES, AND MACHINE COMPACT IT. OVER FILL THE EMBANKMENT 6 INCHES TO ALLOW FOR SETTLEMENT.
- SHAPE THE BASIN TO THE SPECIFIED DIMENSIONS. PREVENT THE SKIMMING DEVICE FROM SETTLING INTO THE MUD BY EXCAVATING A SHALLOW PIT UNDER THE SKIMMER OR PROVIDING A LOW SUPPORT UNDER THE SKIMMER OF STONE OR TIMBER.
- PLACE THE BARREL (TYPICALLY 4-INCH SCHEDULE 40 PVC PIPE) ON A FIRM, SMOOTH FOUNDATION OF IMPERVIOUS SOIL. DO NOT USE PERVIOUS MATERIAL SUCH AS SAND, GRAVEL, OR CRUSHED STONE AS BACKFILL AROUND THE PIPE. PLACE THE FILL MATERIAL AROUND THE PIPE SPILLWAY IN 4-INCH LAYERS AND COMPACT IT UNDER AND AROUND THE PIPE TO AT LEAST THE SAME DENSITY AS THE ADJACENT EMBANKMENT. CARE MUST BE TAKEN NOT TO RAISE THE PIPE FROM THE FIRM CONTACT WITH ITS FOUNDATION WHEN COMPACTING UNDER THE PIPE HAUNCHES.
- PLACE A MINIMUM DEPTH OF 2 FEET OF COMPACTED BACKFILL OVER THE PIPE SPILLWAY BEFORE CROSSING IT WITH CONSTRUCTION EQUIPMENT. IN NO CASE SHOULD THE PIPE CONDUIT BE INSTALLED BY CUTTING A TRENCH THROUGH THE DAM AFTER THE EMBANKMENT IS COMPLETE.
- ASSEMBLE THE SKIMMER FOLLOWING THE MANUFACTURER'S INSTRUCTIONS, OR AS DESIGNED.
- LAY THE ASSEMBLED SKIMMER ON THE BOTTOM OF THE BASIN WITH THE FLEXIBLE JOINT AT THE INLET OF THE BARREL PIPE. ATTACH THE FLEXIBLE JOINT TO THE BARREL PIPE AND POSITION THE SKIMMER OVER THE EXCAVATED PIT OR SUPPORT. BE SURE TO ATTACH A ROPE TO THE SKIMMER AND ANCHOR IT TO THE SIDE OF THE BASIN. THIS WILL BE USED TO PULL THE SKIMMER TO THE SIDE FOR MAINTENANCE.
- EARTHEN SPILLWAYS – INSTALL THE SPILLWAY IN UNDISTURBED SOIL TO THE GREATEST EXTENT POSSIBLE. THE ACHIEVEMENT OF PLANNED ELEVATIONS, GRADE, DESIGN WIDTH, AND ENTRANCE AND EXIT CHANNEL SLOPES ARE CRITICAL TO THE SUCCESSFUL OPERATION OF THE SPILLWAY. THE SPILLWAY SHOULD BE LINED WITH LAMINATED PLASTIC OR IMPERMEABLE GEOTEXTILE FABRIC. THE FABRIC MUST BE WIDE AND LONG ENOUGH TO COVER THE BOTTOM AND SIDES AND EXTEND ONTO THE TOP OF THE DAM FOR ANCHORING IN A TRENCH. THE EDGES MAY BE SECURED WITH 8-INCH STAPLES OR PINS. THE FABRIC MUST BE LONG ENOUGH TO EXTEND DOWN THE SLOPE AND EXIT ONTO STABLE GROUND. THE WIDTH OF THE FABRIC MUST BE ONE PIECE, NOT JOINED OR SPLICED; OTHERWISE WATER CAN GET UNDER THE FABRIC. IF THE LENGTH OF THE FABRIC IS INSUFFICIENT FOR THE ENTIRE LENGTH OF THE SPILLWAY, MULTIPLE SECTIONS, SPANNING THE COMPLETE WIDTH, MAY BE USED. THE UPPER SECTION(S) SHOULD OVERLAP THE LOWER SECTION(S) SO THAT WATER CANNOT FLOW UNDER THE FABRIC. SECURE THE UPPER EDGE AND SIDES OF THE FABRIC IN A TRENCH WITH STAPLES OR PINS. (ADAPTED FROM "A MANUAL FOR DESIGNING, INSTALLING, AND MAINTAINING SKIMMER SEDIMENT BASINS." FEBRUARY, 1999. J. W. FAIRCLOTH & SON).
- INLETS – DISCHARGE WATER INTO THE BASIN IN A MANNER TO PREVENT EROSION. USE TEMPORARY SLOPE DRAINS OR DIVERSIONS WITH OUTLET PROTECTION TO DIVERT SEDIMENT-LADEN WATER TO THE UPPER END OF THE POOL AREA TO IMPROVE BASIN TRAP EFFICIENCY (REFERENCES: RUNOFF CONTROL MEASURES AND OUTLET PROTECTION).
- EROSION CONTROL – CONSTRUCT THE STRUCTURE SO THAT THE DISTURBED AREA IS MINIMIZED. DIVERT SURFACE WATER AWAY FROM BARE AREAS. COMPLETE THE EMBANKMENT BEFORE THE AREA IS CLEARED. STABILIZE THE EMERGENCY SPILLWAY EMBANKMENT AND ALL OTHER DISTURBED AREAS ABOVE THE CREST OF THE PRINCIPAL SPILLWAY IMMEDIATELY AFTER CONSTRUCTION (REFERENCES: SURFACE STABILIZATION).
- INSTALL POROUS BAFFLES AS SPECIFIED IN PRACTICE 6.65, POROUS BAFFLES.
- AFTER ALL THE SEDIMENT-PRODUCING AREAS HAVE BEEN PERMANENTLY STABILIZED, REMOVE THE STRUCTURE AND ALL THE UNSTABLE SEDIMENT. SMOOTH THE AREA TO BLEND WITH THE ADJOINING AREAS AND STABILIZE PROPERLY (REFERENCES: SURFACE STABILIZATION)

TEMPORARY SEEDING SCHEDULE

SEEDING DATE	SEEDING MIXTURE	APPLICATION RATE
JAN 1 – MAY 1	RYE (GRAIN)	120 LBS/AC
MAY 1 – AUG 15	KOBE LESPEDEZA	50 LBS/AC
AUG 15 – DEC 30	GERMAN MILLET RYE (GRAIN)	40 LBS/AC 120 LBS/AC

SOIL AMENDMENTS
FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 4,000 LB/AC GROUND AGRICULTURE LIMESTONE AND 750 LB/AC 10-10-10 FERTILIZER (FROM AUG 15 – DEC 30, INCREASE 10-10-10 FERTILIZER TO 1000 LB/AC).

MULCH
APPLY 4000 LB/AC STRAW. ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OR A MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.

MAINTENANCE
JAN 1 – AUG 15: REFERTILIZE IF GROWTH IS NOT FULLY ADEQUATE. REESE, REFERTILIZE, AND MULCH IMMEDIATELY FOLLOWING EROSION OR OTHER DAMAGE.

AUG 15 – DEC 30: REPAIR AND REFERTILIZE DAMAGED AREAS IMMEDIATELY. TOP DRESS WITH 50 LB/AC OF NITROGEN IN MARCH. IF IT IS NECESSARY TO EXTEND TEMPORARY COVER BEYOND JUNE 15, OVERSEED WITH 50 LB/AC KOBE LESPEDEZA IN LATE FEBRUARY OR EARLY MARCH.

NOTE: USE THE TEMPORARY SEEDING SCHEDULE ONLY WHEN DATE IS NOT CORRECT TO USE THE PERMANENT SEEDING SCHEDULE.

PERMANENT SEEDING SCHEDULE

SEEDING DATE	SEEDING MIXTURE	APPLICATION RATE
AUG 25 – OCT (BEST)	TALL FESCUE RYE (GRAIN) GERMAN MILLET	200 LBS/AC 50 LBS/AC 50 LBS/AC
FEB – APR 15 (POSSIBLE)	TALL FESCUE RYE (GRAIN) GERMAN MILLET	200 LBS/AC 50 LBS/AC 50 LBS/AC

SOIL AMENDMENTS
FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 4,000 LB/AC GROUND AGRICULTURE LIMESTONE AND 1000 LB/AC 10-10-10 FERTILIZER.

MULCH
APPLY 4000 LB/AC STRAW. ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OR A MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.

MAINTENANCE
INSPECT AND REPAIR MULCH FREQUENTLY. REFERTILIZE IN LATE WINTER OF THE FOLLOWING YEAR; USE SOIL TESTS OR APPLY 150 LB/AC 10-10-10 FERTILIZER. MOW REGULARLY TO A HEIGHT OF 2-4 INCHES.

SEEDBED PREPARATION

AREAS TO BE SEED TO BE SCARIFIED 4" DEEP. A FIRM, WELL PULVERIZED, UNIFORM SEEDBED SHOULD BE PROVIDED. FERTILIZER SHALL BE PLACED DURING SCARIFICATION AS FOLLOWS:
LIME: 45 LBS / 1,000 SF
PHOSPHOROUS: 20 LBS / 1,000 SF
FERTILIZER: 17 LBS / 1,000 SF

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

BUILDING WASTES HANDLING	
• NO PAINT OR LIQUID WASTES IN STREAM OR STORM DRAINS	
• DEDICATED AREAS FOR DEMOLITION, CONSTRUCTION AND OTHER WASTES MUST BE LOCATED 50' FROM STORM DRAINS AND STREAMS UNLESS NO REASONABLE ALTERNATIVES AVAILABLE.	
• EARTHEN-MATERIAL STOCKPILES MUST BE LOCATED 50' FROM STORM DRAINS AND STREAMS UNLESS NO REASONABLE ALTERNATIVES AVAILABLE.	
• CONCRETE MATERIALS MUST BE CONTROLLED TO AVOID CONTACT WITH SURFACE WATER, WETLANDS, OR BUFFERS.	

CONTRACTOR'S MAINTENANCE PLAN:

- ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CHECKED FOR STABILITY AND OPERATION FOLLOWING EVERY RUNOFF-PRODUCING RAINFALL BUT IN NO CASE LESS THAN ONCE EVERY WEEK. ANY NEEDED REPAIRS SHALL BE MADE IMMEDIATELY TO MAINTAIN ALL MEASURES AS DESIGNED.
- SEDIMENT BASINS SHALL BE INSPECTED REGULARLY DURING LAND DISTURBING ACTIVITIES AND AFTER EACH RUNOFF-PRODUCING RAINFALL. SEDIMENT SHALL BE REMOVED AND THE BASIN RESTORED TO ITS ORIGINAL DIMENSIONS WHEN SEDIMENT HAS ACCUMULATED TO ONE-HALF THE DESIGN DEPTH OF EACH BASIN. PORTIONS OF THE BASIN'S GRAVEL FACING THAT ARE CONTAMINATED BY SEDIMENT SHALL BE REPLACED WITH FRESH GRAVEL DURING EACH SEDIMENT REMOVAL EPISODE.
- SEDIMENT FENCES SHALL BE INSPECTED AT LEAST ONCE A WEEK AND AFTER EACH RUNOFF PRODUCING RAINFALL. REPAIRS SHALL BE MADE IMMEDIATELY. SEDIMENT DEPOSITS SHALL BE REMOVED AS NEEDED TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAINFALL EVENT, AND TO REDUCE PRESSURE ON THE FENCE. FENCING MATERIALS AND SEDIMENT DEPOSITS SHALL BE REMOVED, AND THE AREA BROUGHT TO GRADE FOLLOWING STABILIZATION OF UPGRADIENT DISTURBED AREAS.
- DIVERSION DITCHES MUST REMAIN IN PLACE UNTIL PROJECT IS STABILIZED.
- EROSION CONTROL DURING SITE CONSTRUCTION WILL BE ACCOMPLISHED BY USE OF SILT FENCING AND SILT FENCE OUTLETS. DEVICES MUST BE EMPTIED WHEN SEDIMENT ACCUMULATION HAS REACHED 6" DEPTH.

TEMPORARY SKIMMER BASIN/TRAP DESIGN TABLE

SEDIMENT TRAP ID	SB-A
Drainage Area (AC)	4.86
Disturbed Area (AC)	4.86
Flow Q10 (CFS)	21.10
Bottom Elevation (FT)	256.50
Sediment Depth (FT)	3.5
Freeboard (from Sediment Depth)	2.0
Depth to Crest of Riser (FT)	3.8
Depth to Crest of Emergency Spillway (FT)	N/A
Side Slopes	2.0H:1V
Spillway Length (FT)	20 (6"x6" RISER)
Height of Berm (FT)	0.5 @ 262.00
Top of Trap Length (FT)	142
Top of Trap Width (FT)	82
Storage Volume Required (FT ³)	8,748
Storage Volume Prov'd (FT ³)	27,472
Sediment Surface Area Req'd (FT ²)	9,160
Sediment Surface Area Prov'd (FT ²)	9,653
Number of Skimmers	1
Skimmer Size (IN)	2.00
Skimmer Orifice Size (IN)	2.00
Anti-Floatation Block	SEE SW SHEETS
Riser Diameter (IN)	SEE SW SHEETS
Bornal Diameter (IN)	SEE SW SHEETS

Notes:
1. Side slopes pertain only for the vertical height from the base to the top of berm, 2H:1V above that.
2. See details on silt fence baffle spacing.



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PARK APARTMENTS
DEMOLITION PHASE
FORM DISTRICT PERMIT
1250 EPHEBUS CHURCH ROAD
CHAPEL HILL, NORTH CAROLINA, 27517



REVISIONS

NO. DATE

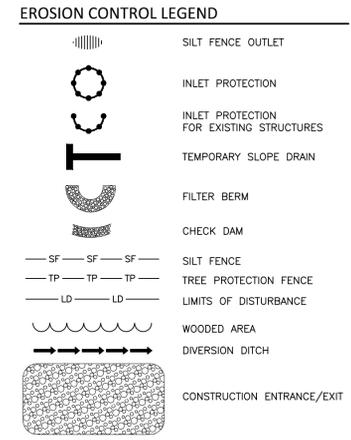
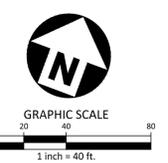
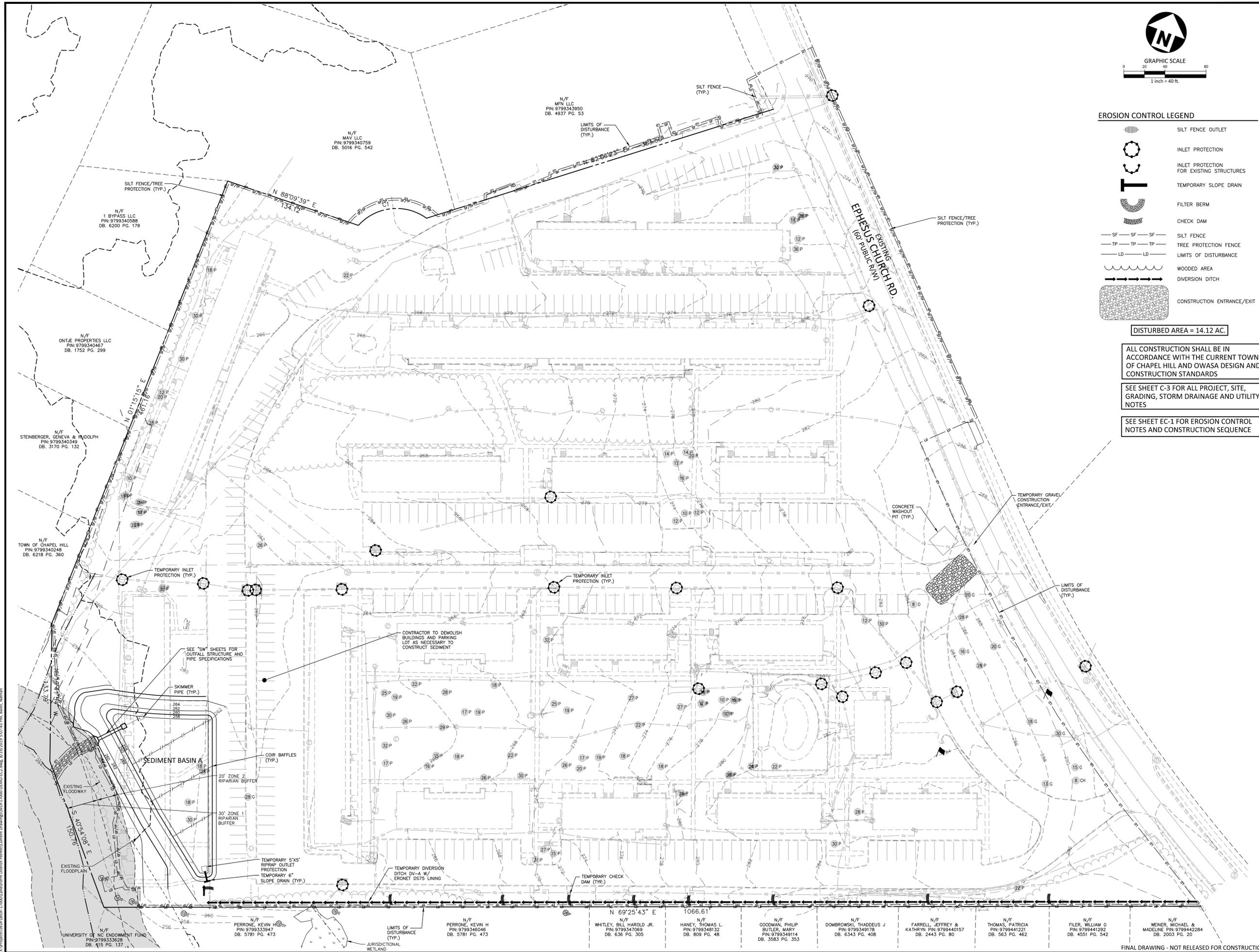
PLAN INFORMATION

PROJECT NO. WDF-17000
FILENAME WDF17000-EC1
CHECKED BY ZNB
DRAWN BY HMA
SCALE N/A
DATE 08.20.2019

SHEET

EROSION CONTROL NOTES

EC-1



DISTURBED AREA = 14.12 AC.

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT TOWN OF CHAPEL HILL AND OWASA DESIGN AND CONSTRUCTION STANDARDS

SEE SHEET C-3 FOR ALL PROJECT, SITE, GRADING, STORM DRAINAGE AND UTILITY NOTES

SEE SHEET EC-1 FOR EROSION CONTROL NOTES AND CONSTRUCTION SEQUENCE



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CHAPEL HILL, NORTH CAROLINA, 27517



REVISIONS

NO.	DATE

PLAN INFORMATION

PROJECT NO.	WDF-17000
FILENAME	WDF17000-EC2
CHECKED BY	ZNB
DRAWN BY	HMA
SCALE	1"=40'
DATE	08.20.2019

SHEET

EROSION CONTROL PLAN - STAGE 1

EC-2

FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

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REVISIONS

NO. DATE

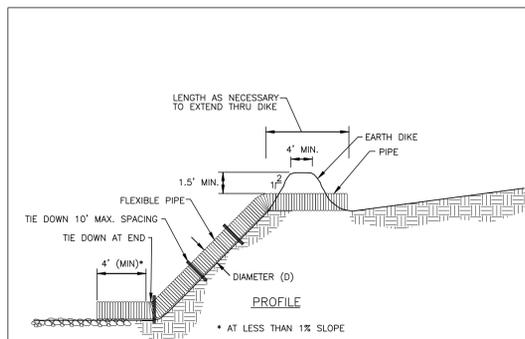
PLAN INFORMATION

PROJECT NO. WDF-17000
FILENAME WDF17000-EC3
CHECKED BY ZNB
DRAWN BY HMA
SCALE NTS
DATE 08.20.2019

SHEET

EROSION CONTROL
DETAILS

EC-3

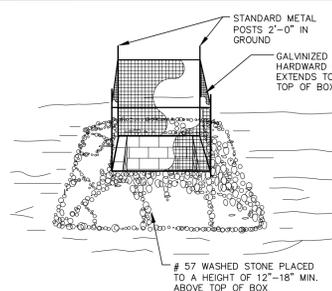


CONSTRUCTION SPECIFICATIONS:

- 1. THE TOP OF THE EARTH DIKE OVER THE INLET PIPE AND THOSE DIKES CARRYING WATER TO THE PIPE SHALL BE AT LEAST 1.5 FEET HIGHER AT ALL POINTS THAN THE TOP OF THE INLET PIPE.
2. THE PIPE SHALL BE FLEXIBLE WITH WATER TIGHT CONNECTING BANDS. FLEXIBLE PIPE SHOULD BE STAKED ON EITHER SIDE.
3. A RIP RAP APRON SHALL BE PROVIDED AT THE OUTLET, IF EMPTYING INTO A DISTURBED AREA.
4. THE SOIL AROUND AND UNDER THE INLET PIPE AND ENTRANCE SECTION SHALL BE HAND TAMPED IN 4" LIFTS TO THE TOP OF THE EARTH DIKE.
5. FOLLOW-UP INSPECTION AND ANY NEEDED MAINTENANCE SHALL BE PERFORMED AFTER EACH STORM BY THE FINANCIALLY RESPONSIBLE PARTY OR HIS AGENT.

TEMPORARY SLOPE DRAIN

N.T.S.

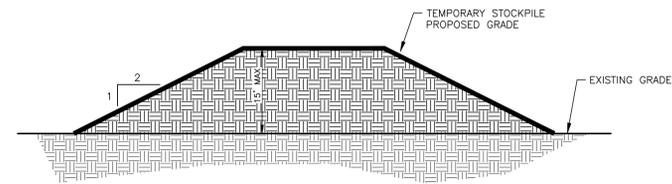


STANDARD POST & GRAVEL INLET PROTECTION

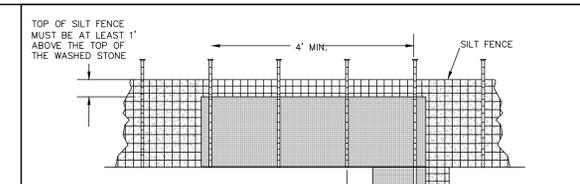
BLOCK AND GRAVEL INLET PROTECTION MAINTENANCE

INSPECT THE BARRIER AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (1/2 INCH OR GREATER) RAINFALL AND MAKE REPAIRS AS NEEDED. REMOVE SEDIMENT AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR SUBSEQUENT RAINS. WHEN THE CONTRIBUTING DRAINAGE AREA HAS BEEN ADEQUATELY STABILIZED, REMOVE ALL MATERIALS AND ANY UNSTABLE SOIL, AND EITHER SALVAGE OR DISPOSE OF IT PROPERLY. BRING THE DISTURBED AREA TO PROPER GRADE, THEN SMOOTH AND COMPACT IT. APPROPRIATELY STABILIZE ALL BARE AREAS AROUND THE INLET.

- NOTES:
1. STOCKPILE HEIGHT TO NOT EXCEED 15'



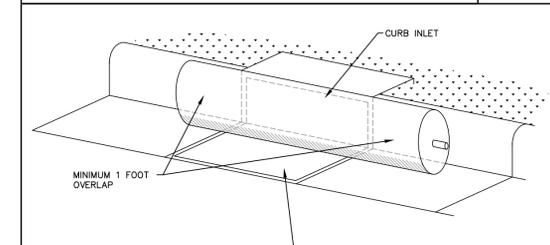
TYPICAL STOCKPILE DETAIL (NTS)



STANDARD SILT FENCE OUTLET

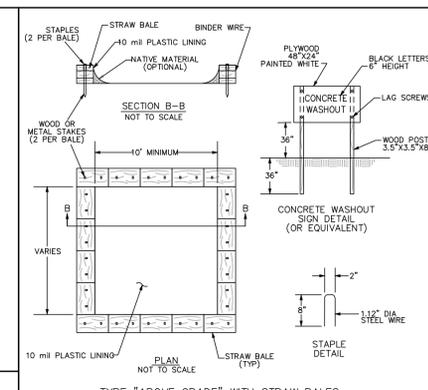
SILT FENCE OUTLET MAINTENANCE

REMOVE SEDIMENT WHEN HALF OF STONE OUTLET IS COVERED. REPLACE STONE AS NEEDED TO ENSURE DEWATERING. INSPECT SEDIMENT FENCES AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY. SHOULD THE FABRIC OF A SEDIMENT FENCE COLLAPSE, TEAR, DECOMPOSE OR BECOME INEFFECTIVE, REPLACE IT PROMPTLY. REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEANOUT. REMOVE ALL FENCING MATERIALS AND UNSTABLE SEDIMENT DEPOSITS AND BRING THE AREA TO GRADE AND STABILIZE IT AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.



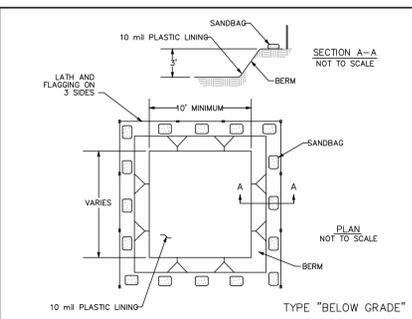
- NOTES:
1. THE SEDIMENT FILTER SHALL BE SYNTHETIC FILTER MANUFACTURED FROM RECYCLED SYNTHETIC FIBERS.
2. THE SEDIMENT FILTER WILL BE MANUFACTURED TO BE 9" IN DIAMETER AND ARE AVAILABLE IN 4', 6', 8', 10', 12', 14' AND 16' LENGTHS AND A MINIMUM OF 24" LONGER THAN THE CURB INLET OPENING. THIS WILL ALLOW FOR SUFFICIENT LENGTH TO COVER THE INLET WITH TWELVE (12) INCHES BEYOND THE INLET ON BOTH ENDS.

EXISTING INLET PROTECTION

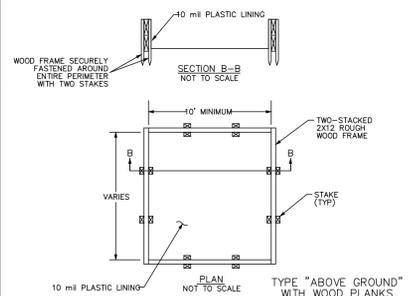


TYPE "ABOVE GRADE" WITH STRAW BALES

- NOTES:
1. ACTUAL LAYOUT TO BE DETERMINED IN THE FIELD.
2. A CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30' OF THE TEMPORARY CONCRETE WASHOUT FACILITY.
3. MATERIALS USED TO CONSTRUCT TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BE REMOVED FROM THE SITE OF THE WORK AND DISPOSED OF OR RECYCLED.
4. HOLES, DEPRESSIONS OR OTHER GROUND DISTURBANCE CAUSED BY THE REMOVAL OF THE TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BE BACKFILLED, REPAIRED, AND STABILIZED TO PREVENT EROSION.

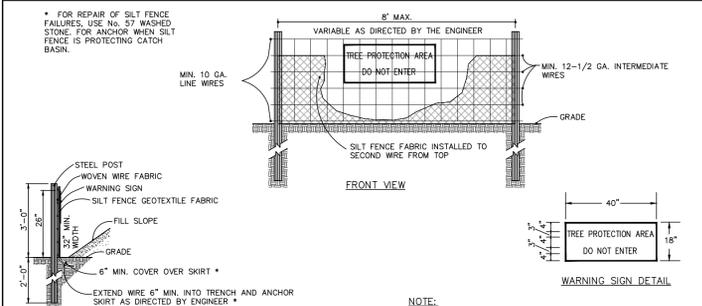


TYPE "BELOW GRADE"



TYPE "ABOVE GROUND" WITH WOOD PLANKS

CONCRETE WASHOUT



STANDARD TEMPORARY SILT / TREE PROTECTION FENCE

- NOTES:
WARNING SIGNS TO BE MADE OF DURABLE, WEATHERPROOF MATERIAL. LETTERS TO BE 3" HIGH MINIMUM, CLEARLY LEGIBLE AND SPACED AS DETAILED. PLACE A SIGN AT EACH END OF LINEAR TREE PROTECTION AND 50' ON CENTER THEREAFTER. FOR TREE PROTECTION AREAS LESS THAN 200' IN PERIMETER, PROVIDE NO LESS THAN ONE SIGN PER PROTECTION AREA. ATTACH SIGNS SECURELY TO FENCE POSTS AND FABRIC. MAINTAIN TREE PROTECTION FENCE THROUGHOUT DURATION OF PROJECT. ADDITIONAL SIGNS MAY BE REQUIRED BY CITY OF RALEIGH INSPECTIONS DEPARTMENT BASED ON ACTUAL FIELD CONDITIONS. PLACE A SIGN AT EACH END OF LINEAR TREE PROTECTION AND 50' ON CENTER THEREAFTER.

SILT FENCE MAINTENANCE

INSPECT SEDIMENT FENCES AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY. SHOULD THE FABRIC OF A SEDIMENT FENCE COLLAPSE, TEAR, DECOMPOSE OR BECOME INEFFECTIVE, REPLACE IT PROMPTLY. REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEANOUT. REMOVE ALL FENCING MATERIALS AND UNSTABLE SEDIMENT DEPOSITS AND BRING THE AREA TO GRADE AND STABILIZE IT AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.



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PHONE: 919.535.8947

PARK APARTMENTS
DEMOLITION PHASE
FORM DISTRICT PERMIT
1250 EPHEBUS CHURCH ROAD
CHAPEL HILL, NORTH CAROLINA, 27517



REVISIONS

NO. DATE

PLAN INFORMATION

PROJECT NO. WDF-17000
FILENAME WDF17000-EC5
CHECKED BY ZNB
DRAWN BY HMA
SCALE NTS
DATE 08.20.2019

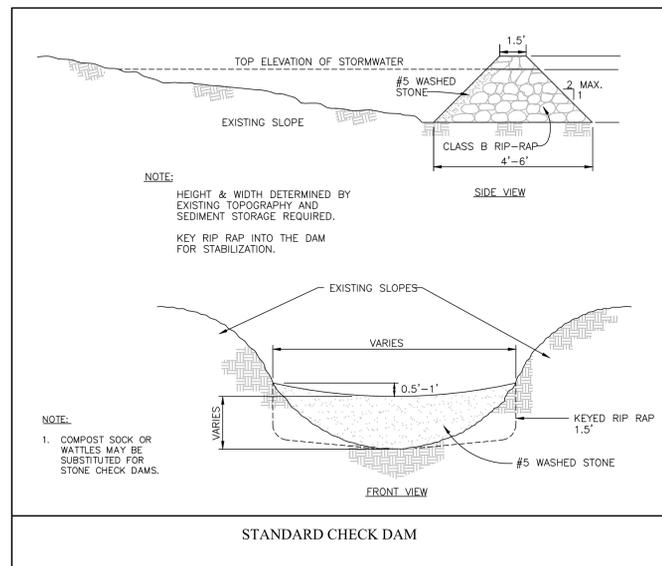
SHEET

EROSION CONTROL
DETAILS

EC-4

MAINTENANCE PLAN:

1. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CHECKED FOR STABILITY AND OPERATION FOLLOWING EVERY RUNOFF-PRODUCING RAINFALL BUT IN NO CASE LESS THAN ONCE EVERY WEEK. ANY NEEDED REPAIRS SHALL BE MADE IMMEDIATELY TO MAINTAIN ALL MEASURES AS DESIGNED.
2. SEDIMENT BASINS SHALL BE INSPECTED REGULARLY DURING LAND DISTURBING ACTIVITIES AND AFTER EACH RUNOFF-PRODUCING RAINFALL. SEDIMENT SHALL BE REMOVED AND THE BASIN RESTORED TO ITS ORIGINAL DIMENSIONS WHEN SEDIMENT HAS ACCUMULATED TO ONE-HALF THE DESIGN DEPTH OF EACH BASIN. PORTIONS OF THE BASIN'S GRAVEL FACING THAT ARE CONTAMINATED BY SEDIMENT SHALL BE REPLACED WITH FRESH GRAVEL DURING EACH SEDIMENT REMOVAL EPISODE.
3. SEDIMENT FENCES SHALL BE INSPECTED AT LEAST ONCE A WEEK AND AFTER EACH RUNOFF PRODUCING RAINFALL. REPAIRS SHALL BE MADE IMMEDIATELY. SEDIMENT DEPOSITS SHALL BE REMOVED AS NEEDED TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAINFALL EVENT, AND TO REDUCE PRESSURE ON THE FENCE. FENCING MATERIALS AND SEDIMENT DEPOSITS SHALL BE REMOVED, AND THE AREA BROUGHT TO GRADE FOLLOWING STABILIZATION OF UPGRADIENT DISTURBED AREAS.
4. DIVERSION DITCHES MUST REMAIN IN PLACE UNTIL PROJECT IS STABILIZED.
5. EROSION CONTROL DURING SITE CONSTRUCTION WILL BE ACCOMPLISHED BY USE OF SILT FENCING AND SILT FENCE OUTLETS. DEVICES MUST BE EMPTIED WHEN SEDIMENT ACCUMULATION HAS REACHED 6" DEPTH.
6. RIPRAP CHANNELS SHOULD BE INSPECTED AT REGULAR INTERVALS AS WELL AS AFTER MAJOR RAIN EVENTS. REPAIRS SHOULD BE MADE IMMEDIATELY. MAINTAIN ALL VEGETATION ADJACENT TO THE CHANNEL IN A HEALTHY, VIGOROUS CONDITION TO PROTECT THE AREA FROM EROSION AND SCOUR DURING OUT-OF-BANK FLOW.

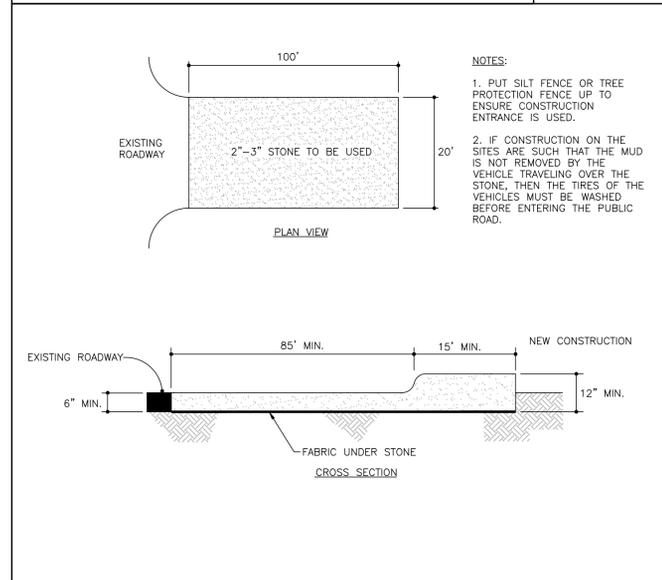


CHECK DAM MAINTENANCE

INSPECT CHECK DAMS AND CHANNELS AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (1/2 INCH OR GREATER) RAINFALL EVENT AND REPAIR IMMEDIATELY. CLEAN OUT SEDIMENT, STRAW, LIMBS, OR OTHER DEBRIS THAT COULD CLOG THE CHANNEL WHEN NEEDED.

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, ADDITIONAL MEASURE CAN BE TAKEN SUCH AS, INSTALLING 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.

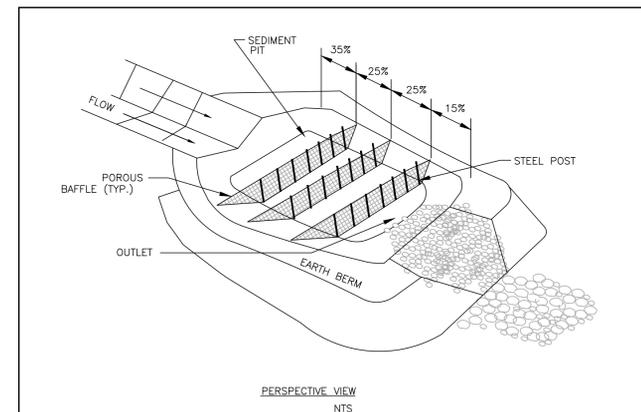


TEMPORARY GRAVEL CONSTRUCTION ENTRANCE MAINTENANCE

MAINTAIN THE GRAVEL PAD IN A CONDITION TO PREVENT MUD OR SEDIMENT FROM LEAVING THE CONSTRUCTION SITE. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 2-INCH STONE.

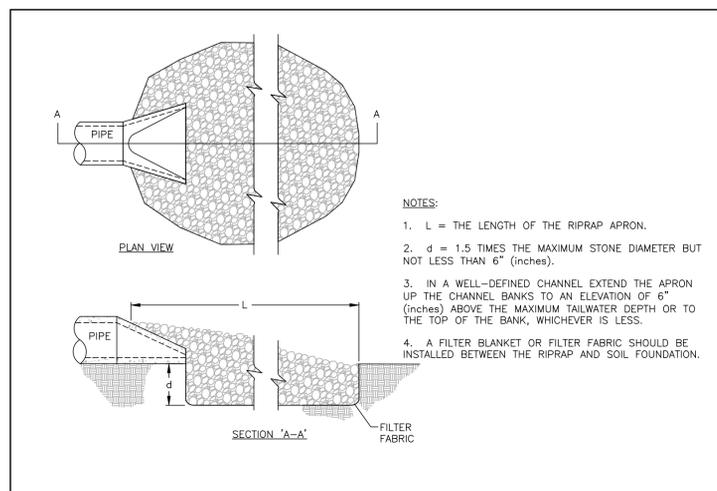
AFTER EACH RAINFALL, INSPECT ANY STRUCTURE USED TO TRAP SEDIMENT AND CLEAN IT OUT AS NECESSARY.

IMMEDIATELY REMOVE ALL OBJECTIONABLE MATERIALS SPILLED, WASHED, OR TRACKED ONTO ANY ROADWAYS.



SKIMMER DETAIL

VENT
SCREEN ACCESSIBLE THROUGH DOOR
FLOAT
FLEXIBLE JOINT OR GRADATOR HOSE
OUTLET END CONNECTION TO OUTLET PIPE OR RISER
BARREL PIPE LONGER THAN SHOWN



TEMPORARY DIVERSION DITCH

STEEP CUT OR FILL SLOPE
2' MIN.
3' MIN. BOT WIDTH
18"
2 : 1 SLOPE (MAXIMUM)
SEE TEMPORARY DIVERSION DITCH SUMMARY TABLE

STABILIZE DIVERSION DITCH IMMEDIATELY WITH TEMPORARY SEEDING COVER. INSTALL EROSION CONTROL MAT WHERE SHOWN ON PLANS.

TEMPORARY DIVERSION MAINTENANCE

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 IT.