

HARMONY HOSPITALITY

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VIRGINIA BEACH, VIRGINIA, 23464
(757) 363-9671

WK DICKSON

CIVIL / SURVEY / LANDSCAPE ENGINEERS
509 MARKET STREET
WILMINGTON, NORTH CAROLINA, 28401
(910) 782-4200
NC LICENSE NO. F-0374
DENISE L. FREUND, P.E.

WOODS ENGINEERING

STRUCTURAL ENGINEERS
224 N. FRONT STREET, SUITE 201
WILMINGTON, NORTH CAROLINA, 28401
(910) 343-8007



PROJECT TITLE

EXISTING CONDITIONS AND DEMOLITION PLAN



EMBASSY SUITES

9 ESTELL LEE PLACE
WILMINGTON, NORTH CAROLINA
28401

SHEET TITLE

EXISTING CONDITIONS AND DEMOLITION PLAN

8/31/16

FINAL DESIGN - NOT RELEASED FOR CONSTRUCTION

ISSUE BLOCK	DATE	DESCRIPTION
2	8/05/14	CFPUA COMMENTS.

MARK	DATE	DESCRIPTION

PROJECT NO.	DATE	SCALE	DRAWN BY	NS	PROJ MGR	DLF
20130038.00.WL	5/9/14	1"=30'				

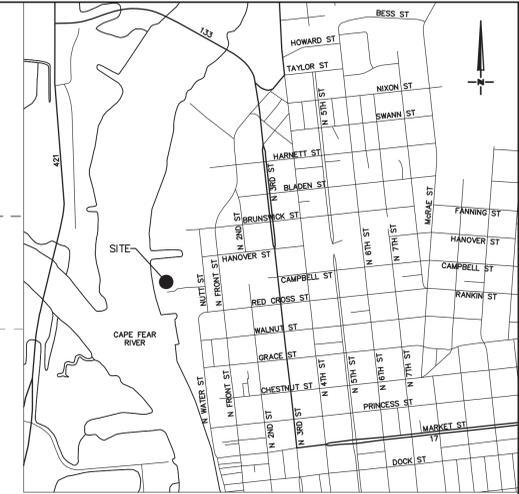
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SCALE: 1"=30'

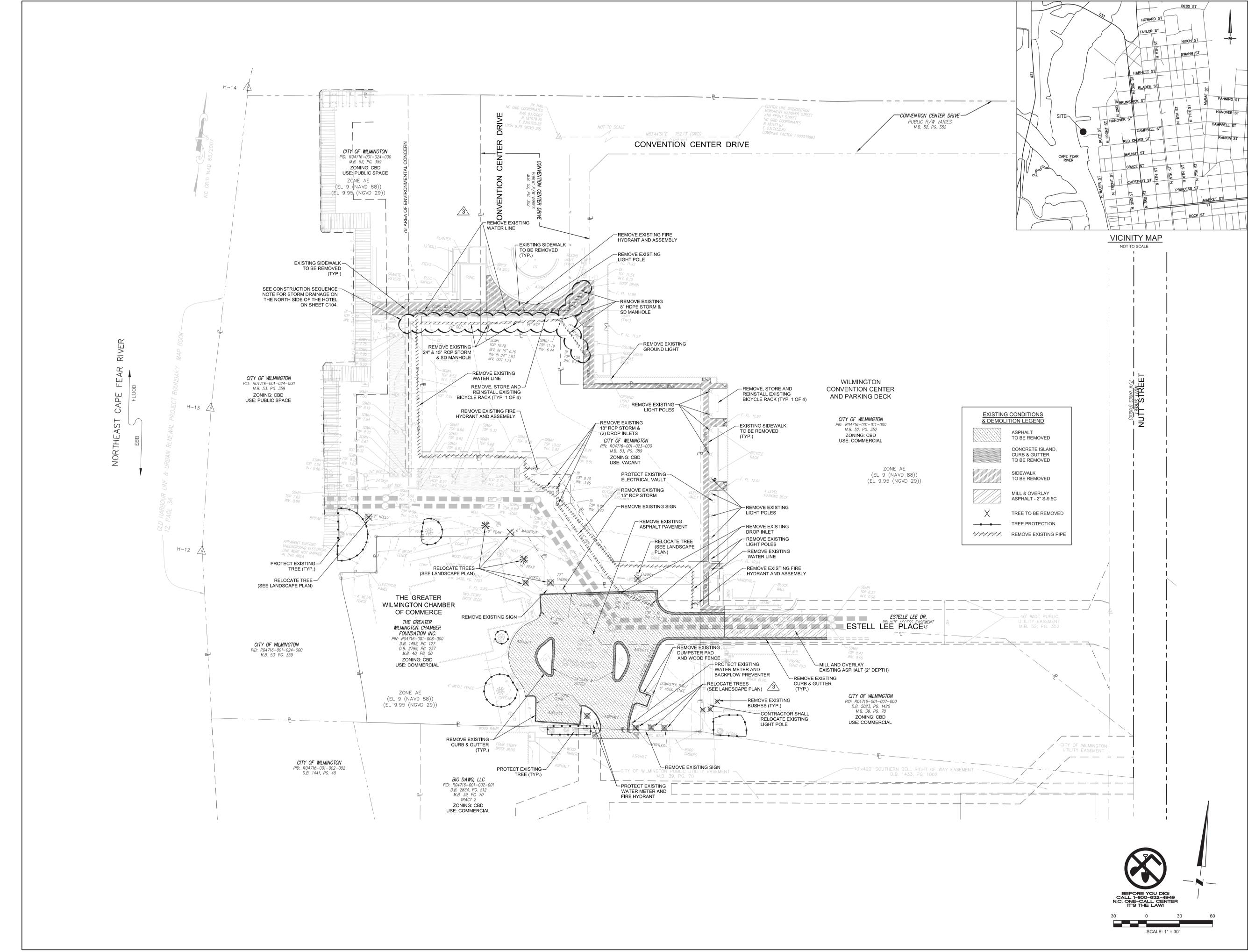
DRAWN BY: NS PROJ MGR: DLF

C101

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VICINITY MAP
NOT TO SCALE



EXISTING CONDITIONS & DEMOLITION LEGEND

	ASPHALT TO BE REMOVED
	CONCRETE ISLAND, CURB & GUTTER TO BE REMOVED
	SIDEWALK TO BE REMOVED
	MILL & OVERLAY ASPHALT - 2" S-9.5C
	TREE TO BE REMOVED
	TREE PROTECTION
	REMOVE EXISTING PIPE



BEFORE YOU DIG
CALL 1-800-632-4049
N.C. ONE-CALL CENTER
IT'S THE LAW!

SCALE: 1" = 30'

NORTH EAST CAPE FEAR RIVER
FLOOD
EBB

OLD HARBOUR LINE & URBAN RENAISSANCE PROJECT BOUNDARY MAP BOOK
12, PAGE 3A

CITY OF WILMINGTON
PID: R04716-001-024-000
M.B. 53, PG. 359
ZONING: CBD
USE: PUBLIC SPACE
ZONE AE
(EL. 9 (NAVD 88))
(EL. 9.95 (NGVD 29))

75' AREA OF ENVIRONMENTAL CONCERN

CONVENTION CENTER DRIVE
PUBLIC R/W VARIES
M.B. 52, PG. 352

REMOVE EXISTING WATER LINE

REMOVE EXISTING FIRE HYDRANT AND ASSEMBLY

REMOVE EXISTING LIGHT POLE

REMOVE EXISTING 8" HDPE STORM & SD MANHOLE (TYP.)

REMOVE EXISTING GROUND LIGHT

REMOVE EXISTING 24" & 15" RCP STORM & SD MANHOLE

REMOVE EXISTING WATER LINE

REMOVE STORE AND REINSTALL EXISTING BICYCLE RACK (TYP. 1 OF 4)

REMOVE EXISTING FIRE HYDRANT AND ASSEMBLY

REMOVE EXISTING LIGHT POLES

REMOVE EXISTING 18" RCP STORM & (2) DROP INLETS

REMOVE EXISTING LIGHT POLES

REMOVE EXISTING 15" RCP STORM

REMOVE EXISTING SIGN

REMOVE EXISTING ASPHALT PAVEMENT

RELOCATE TREE (SEE LANDSCAPE PLAN)

RELOCATE TREE (SEE LANDSCAPE PLAN)

RELOCATE TREES (SEE LANDSCAPE PLAN)

REMOVE EXISTING SIGN

REMOVE EXISTING DUMPSTER PAD AND WOOD FENCE

PROTECT EXISTING WATER METER AND BACKFLOW PREVENTER

RELOCATE TREES (SEE LANDSCAPE PLAN)

REMOVE EXISTING BUSHES (TYP.)

CONTRACTOR SHALL RELOCATE EXISTING LIGHT POLE

REMOVE EXISTING CURB & GUTTER (TYP.)

REMOVE EXISTING SIGN

PROTECT EXISTING TREE (TYP.)

PROTECT EXISTING WATER METER AND FIRE HYDRANT

WILMINGTON CONVENTION CENTER AND PARKING DECK

CITY OF WILMINGTON
PID: R04716-001-011-000
M.B. 52, PG. 352
ZONING: CBD
USE: COMMERCIAL

ZONE AE
(EL. 9 (NAVD 88))
(EL. 9.95 (NGVD 29))

ESTELL LEE DR.
ADJUTANT APPLIC EASEMENT
ESTELL LEE PLACE

40' WIDE PUBLIC UTILITY EASEMENT
M.B. 52, PG. 352

CITY OF WILMINGTON
PID: R04716-001-023-000
M.B. 53, PG. 359
ZONING: CBD
USE: VACANT

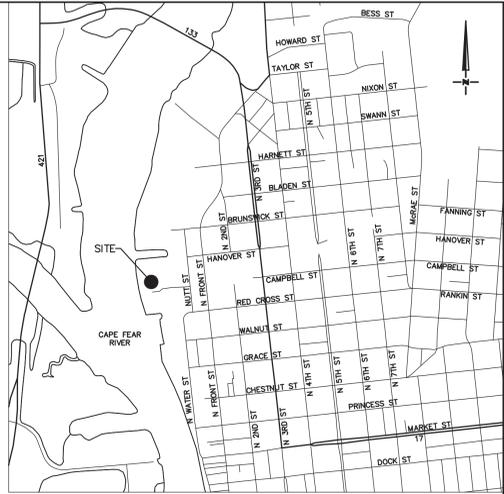
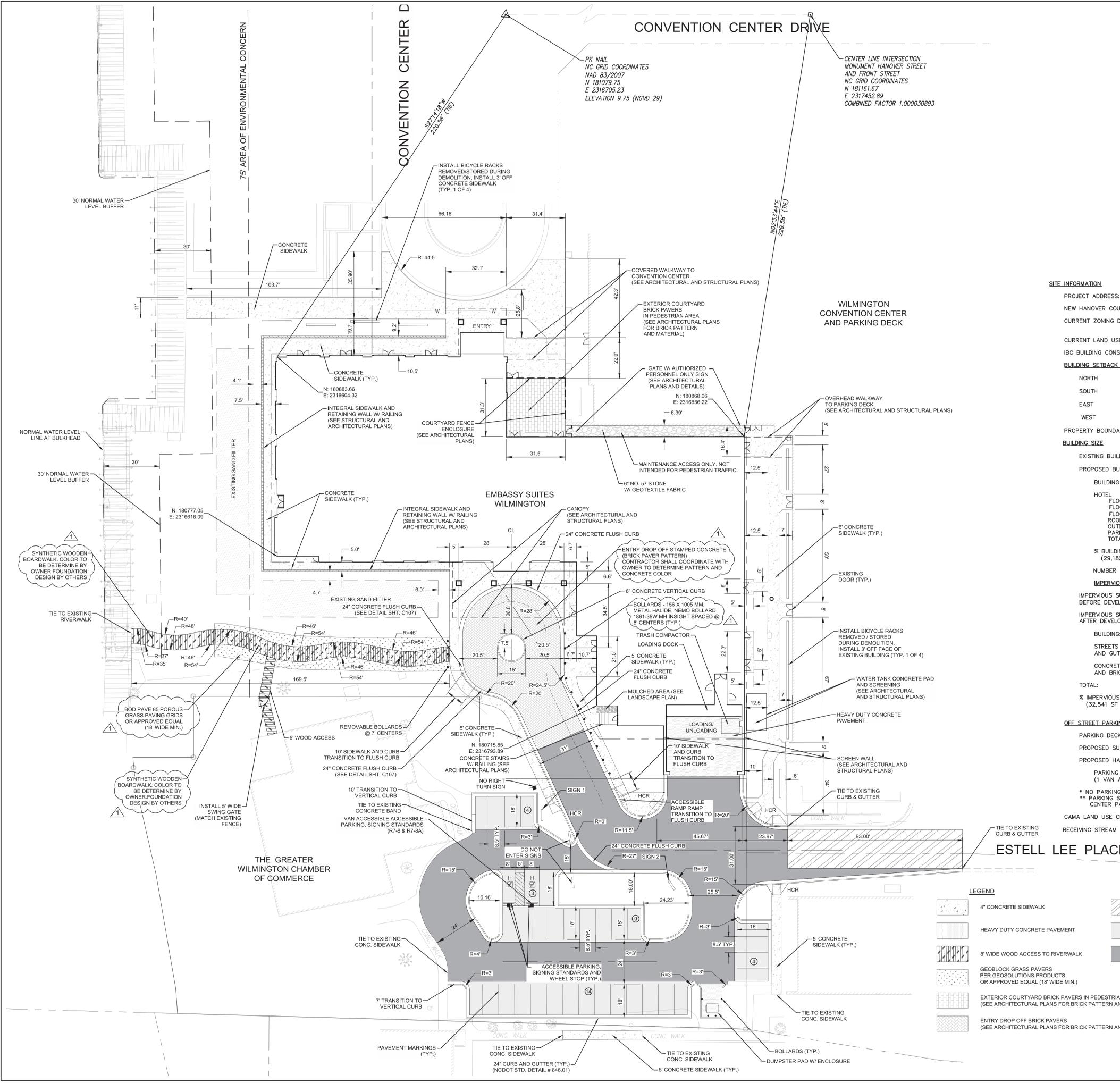
CITY OF WILMINGTON
PID: R04716-001-006-000
D.B. 1493, PG. 127
D.B. 2799, PG. 237
M.B. 40, PG. 50
ZONING: CBD
USE: COMMERCIAL

ZONE AE
(EL. 9 (NAVD 88))
(EL. 9.95 (NGVD 29))

CITY OF WILMINGTON
PID: R04716-001-024-000
M.B. 53, PG. 359

CITY OF WILMINGTON
PID: R04716-001-002-002
D.B. 1441, PG. 40

BIG DAWG, LLC
PID: R04716-001-002-001
D.B. 2834, PG. 512
M.B. 39, PG. 70
TRACT 2
ZONING: CBD
USE: COMMERCIAL



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 (910) 343-8007

PROJECT TITLE
EMBASSY SUITES
 9 ESTELL LEE PLACE
 WILMINGTON, NORTH CAROLINA
 28401

SITE LAYOUT & PAVING PLAN

FINAL DESIGN - NOT RELEASED FOR CONSTRUCTION

ISSUE NO.	DATE	DESCRIPTION
1	3/09/16	ADDENDUM 1

PROJECT NO: 20130038.00.WL
 DATE: 5/9/14
 SCALE: 1"=20'
 DRAWN BY: NS | PROJ MGR: DJF

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SITE INFORMATION

PROJECT ADDRESS: 9 ESTELL LEE PLACE
 NEW HANOVER COUNTY P.I.N.: R04716-001-023-000
 CURRENT ZONING DISTRICT: CBD (CENTRAL BUSINESS DISTRICT)
 CURRENT LAND USE: VACANT
 IBC BUILDING CONSTRUCTION TYPE: TYPE IB

BUILDING SETBACK	REQUIRED	PROPOSED
NORTH	0'	VARIABLES 0.39' TO 0.70'
SOUTH	0'	VARIABLES 0.11' TO 0.25'
EAST	0'	0.77'
WEST	0'	2.43'

PROPERTY BOUNDARY SIZE: 33,009 SF (0.76 AC)

BUILDING SIZE

EXISTING BUILDING(S): N/A
 PROPOSED BUILDING(S):
 BUILDING HEIGHT: 116'-5"
 HOTEL
 FLOOR 1: 29,182 SF
 FLOOR 2: 21,597 SF
 FLOORS 3 - 8: 118,872 SF (19,812 SF/FLOOR)
 ROOF: 19,878 SF
 OUTDOOR TERRACE: 1,406 SF
 PARKING GARAGE CONNECTOR: 399 SF
 TOTAL: 191,321 SF

% BUILDING LOT COVERAGE: (29,182 SF / 33,009 SF) = 88.41%

NUMBER OF UNITS: 186 ROOMS

IMPERVIOUS SURFACE AREAS

IMPERVIOUS SURFACE AREA BEFORE DEVELOPMENT: 0 SF (0.00 AC)
 IMPERVIOUS SURFACE AREA AFTER DEVELOPMENT:
 BUILDING: 30,251 SF (0.69 AC)
 STREETS WITH CURB AND GUTTER: 1,260 SF (0.03 AC)
 CONCRETE SIDEWALK, STAIRS AND BRICK PAVERS: 1,030 SF (0.02 AC)
 TOTAL: 32,541 SF (0.75 AC) / 33,009 SF (0.76 AC) = 98.58%

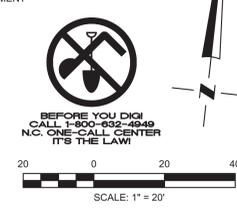
OFF STREET PARKING CALCULATIONS	REQUIRED	PROPOSED
PARKING DECK SPACES:	0*	250**
PROPOSED SURFACE PARKING SPACES:	0*	0
PROPOSED HANDICAP SPACES:		
PARKING DECK (1 VAN ACCESSIBLE):	7	TBD

* NO PARKING REQUIRED IN THE CENTRAL BUSINESS DISTRICT.
 ** PARKING SPACES PROVIDED IN THE CITY OF WILMINGTON CONVENTION CENTER PARKING DECK

CAMA LAND USE CLASSIFICATION: CONSERVATION
 RECEIVING STREAM CLASS AND INDEX: CAPE FEAR RIVER; SC 18-(71)

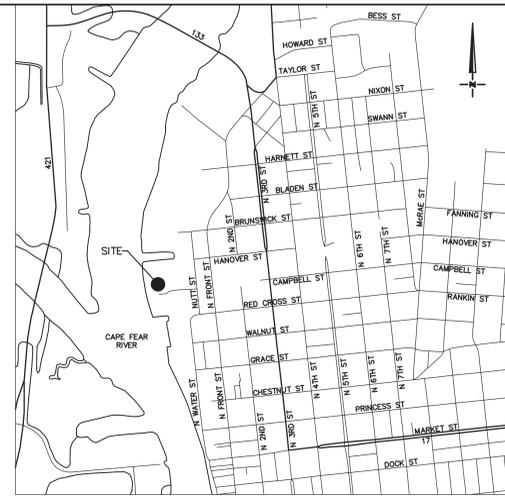
LEGEND

4" CONCRETE SIDEWALK	MILL & OVERLAY ASPHALT - 2" S-9.5C
HEAVY DUTY CONCRETE PAVEMENT	LIGHT DUTY ASPHALT PAVEMENT
8" WIDE WOOD ACCESS TO RIVERWALK	HEAVY DUTY ASPHALT PAVEMENT
GEOBLOCK GRASS PAVERS PER GEOSOLUTIONS PRODUCTS OR APPROVED EQUAL (18" WIDE MIN.)	
EXTERIOR COURTYARD BRICK PAVERS IN PEDESTRIAN AREA (SEE ARCHITECTURAL PLANS FOR BRICK PATTERN AND MATERIAL)	
ENTRY DROP OFF BRICK PAVERS (SEE ARCHITECTURAL PLANS FOR BRICK PATTERN AND MATERIAL)	

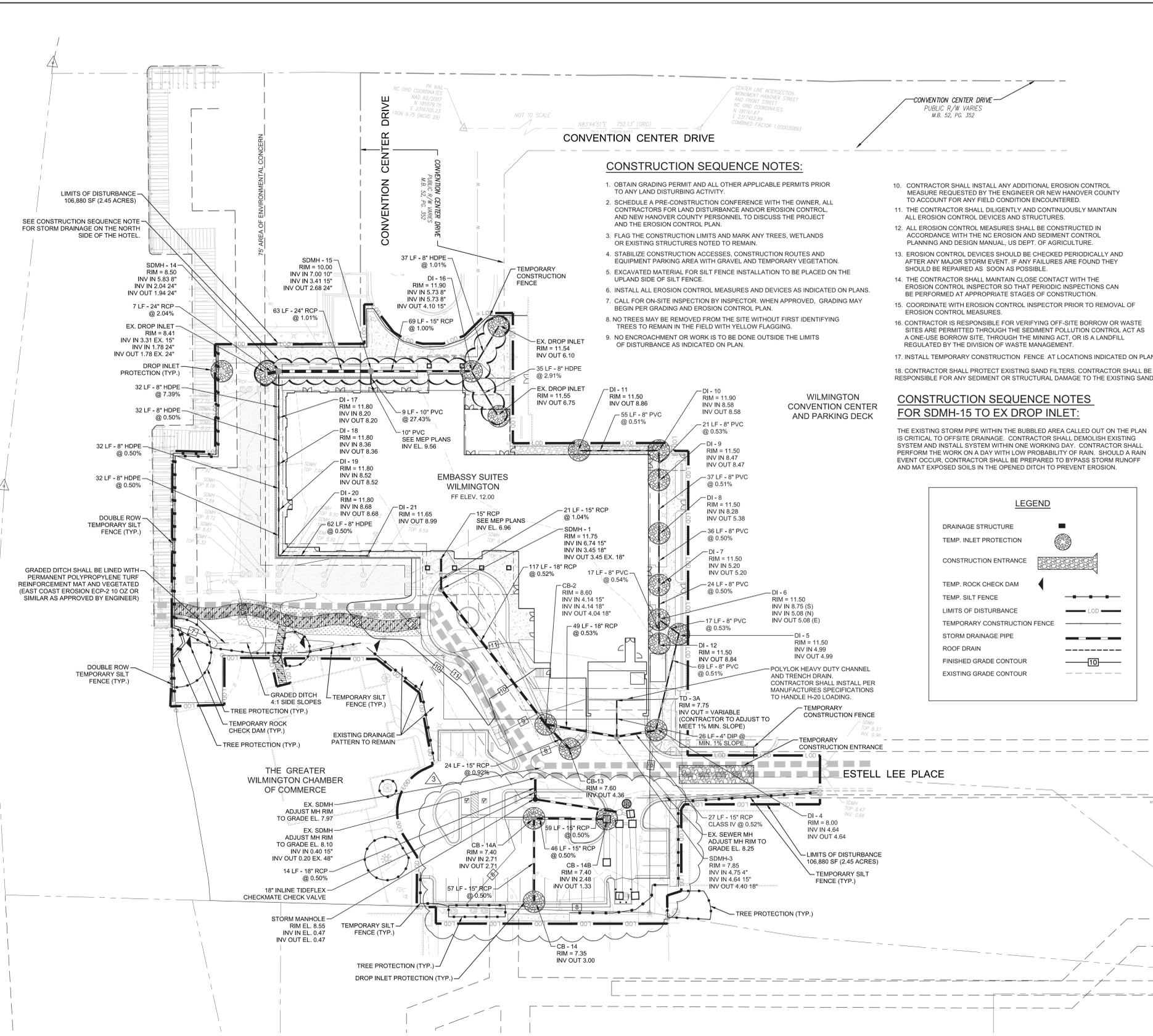




NO.	DATE	DESCRIPTION
1	5/19/14	TRC COMMENTS.



VICINITY MAP
NOT TO SCALE

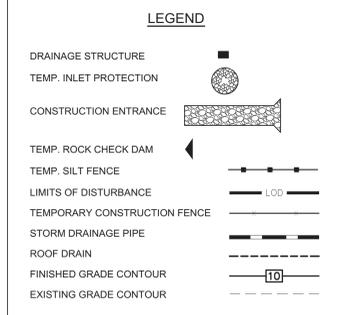


CONSTRUCTION SEQUENCE NOTES:

- OBTAIN GRADING PERMIT AND ALL OTHER APPLICABLE PERMITS PRIOR TO ANY LAND DISTURBING ACTIVITY.
- SCHEDULE A PRE-CONSTRUCTION CONFERENCE WITH THE OWNER, ALL CONTRACTORS FOR LAND DISTURBANCE AND/OR EROSION CONTROL, AND NEW HANOVER COUNTY PERSONNEL TO DISCUSS THE PROJECT AND THE EROSION CONTROL PLAN.
- FLAG THE CONSTRUCTION LIMITS AND MARK ANY TREES, WETLANDS OR EXISTING STRUCTURES NOTED TO REMAIN.
- STABILIZE CONSTRUCTION ACCESSES, CONSTRUCTION ROUTES AND EQUIPMENT PARKING AREA WITH GRAVEL AND TEMPORARY VEGETATION.
- EXCAVATED MATERIAL FOR SILT FENCE INSTALLATION TO BE PLACED ON THE UPLAND SIDE OF SILT FENCE.
- INSTALL ALL EROSION CONTROL MEASURES AND DEVICES AS INDICATED ON PLANS.
- CALL FOR ON-SITE INSPECTION BY INSPECTOR. WHEN APPROVED, GRADING MAY BEGIN PER GRADING AND EROSION CONTROL PLAN.
- NO TREES MAY BE REMOVED FROM THE SITE WITHOUT FIRST IDENTIFYING TREES TO REMAIN IN THE FIELD WITH YELLOW FLAGGING.
- NO ENCROACHMENT OR WORK IS TO BE DONE OUTSIDE THE LIMITS OF DISTURBANCE AS INDICATED ON PLAN.
- CONTRACTOR SHALL INSTALL ANY ADDITIONAL EROSION CONTROL MEASURE REQUESTED BY THE ENGINEER OR NEW HANOVER COUNTY TO ACCOUNT FOR ANY FIELD CONDITION ENCOUNTERED.
- THE CONTRACTOR SHALL DILIGENTLY AND CONTINUOUSLY MAINTAIN ALL EROSION CONTROL DEVICES AND STRUCTURES.
- ALL EROSION CONTROL MEASURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE NC EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL, US DEPT. OF AGRICULTURE.
- EROSION CONTROL DEVICES SHOULD BE CHECKED PERIODICALLY AND AFTER ANY MAJOR STORM EVENT. IF ANY FAILURES ARE FOUND THEY SHOULD BE REPAIRED AS SOON AS POSSIBLE.
- THE CONTRACTOR SHALL MAINTAIN CLOSE CONTACT WITH THE EROSION CONTROL INSPECTOR SO THAT PERIODIC INSPECTIONS CAN BE PERFORMED AT APPROPRIATE STAGES OF CONSTRUCTION.
- COORDINATE WITH EROSION CONTROL INSPECTOR PRIOR TO REMOVAL OF EROSION CONTROL MEASURES.
- CONTRACTOR IS RESPONSIBLE FOR VERIFYING OFF-SITE BORROW OR WASTE SITES ARE PERMITTED THROUGH THE SEDIMENT POLLUTION CONTROL ACT AS A ONE-USE BORROW SITE, THROUGH THE MINING ACT, OR IS A LANDFILL REGULATED BY THE DIVISION OF WASTE MANAGEMENT.
- INSTALL TEMPORARY CONSTRUCTION FENCE AT LOCATIONS INDICATED ON PLANS.
- CONTRACTOR SHALL PROTECT EXISTING SAND FILTERS. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY SEDIMENT OR STRUCTURAL DAMAGE TO THE EXISTING SAND FILTERS.

CONSTRUCTION SEQUENCE NOTES FOR SDMH-15 TO EX DROP INLET:

THE EXISTING STORM PIPE WITHIN THE BUBBLED AREA CALLED OUT ON THE PLAN IS CRITICAL TO OFFSITE DRAINAGE. CONTRACTOR SHALL DEMOLISH EXISTING SYSTEM AND INSTALL SYSTEM WITHIN ONE WORKING DAY. CONTRACTOR SHALL PERFORM THE WORK ON A DAY WITH LOW PROBABILITY OF RAIN. SHOULD A RAIN EVENT OCCUR, CONTRACTOR SHALL BE PREPARED TO BYPASS STORM RUNOFF AND MAT EXPOSED SOILS IN THE OPENED DITCH TO PREVENT EROSION.



POLYLOCK HEAVY DUTY CHANNEL AND TRENCH DRAIN. CONTRACTOR SHALL INSTALL PER MANUFACTURER'S SPECIFICATIONS TO HANDLE H-20 LOADING.

NOTE:
FLOOD ZONE AE ACCORDING TO FEMA FIRM COMMUNITY PANEL 37203118 OOK - MAP REVISED JUNE 2, 2006
NGVD 29 (EL. 9.95) AND NAVD 88 (EL. 9.00)

GROUND COVER SCHEDULE		
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 HWQ ZONES)

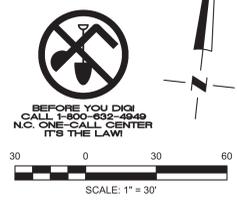
NOTE:
PER THE GROUND COVER SCHEDULE SHOWN HERE, OR AT THE COMPLETION OF ANY PHASE OF GRADING, WHICHEVER PERIOD IS SHORTER, DISTURBED AREAS SHALL BE PLANTED OR OTHERWISE PROVIDED WITH GROUND COVER, DEVICES, OR STRUCTURES SUFFICIENT TO RESTRAIN EROSION.

EROSION CONTROL NOTES:

- SEE SHEET C111 FOR EROSION DETAILS AND MAINTENANCE REQUIREMENTS.
- STABILIZE DISTURBED EARTH AREAS WITHIN 14 DAYS FROM COMPLETION OF GRADING ACTIVITIES EXCEPT FOR PERIMETER DIKES, SWALES, DITCHES, AND SLOPES WHICH MUST BE STABILIZED WITHIN 7 DAYS.
- THERE ARE NO WETLAND IMPACTS ASSOCIATED WITH THIS PROJECT.
- CONTACT PERSON RESPONSIBLE FOR MAINTENANCE: PAGE A, JOHNSON, II - (757) 363-9671
- SOIL TYPE AT PROJECT SITE IS U₁ URBAN LAND.
- PROJECT LOCATION: LATITUDE - N 34°14'30.3078" LONGITUDE - W 77°57'5.674"
- NEW HANOVER COUNTY PARCEL ID #: R04716-001-023-000

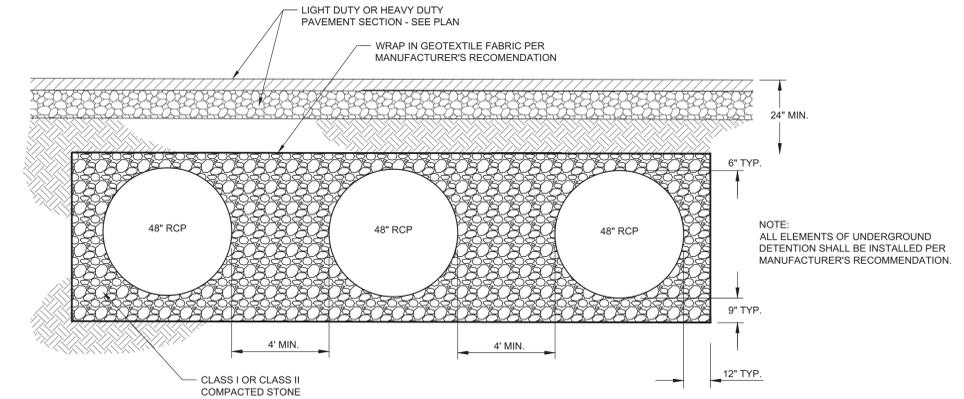
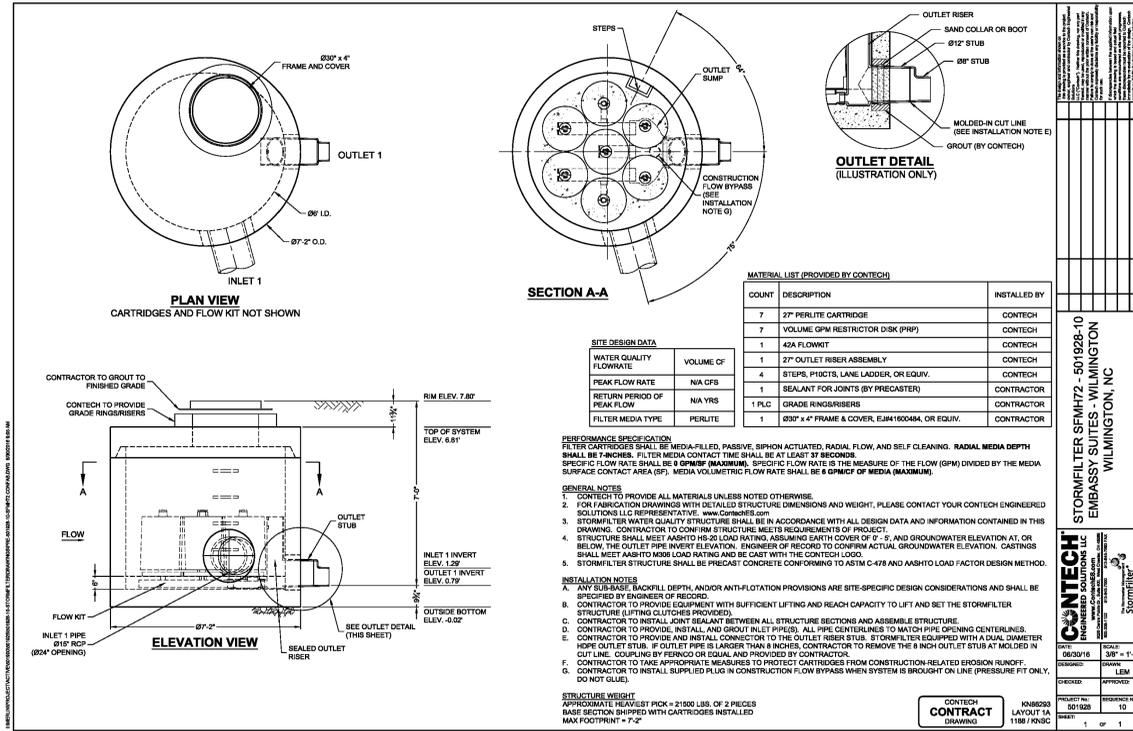
CIVIL ENGINEER CONTACT INFORMATION:

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FAX (910) 762-4201
DFREUND@WKDICKSON.COM

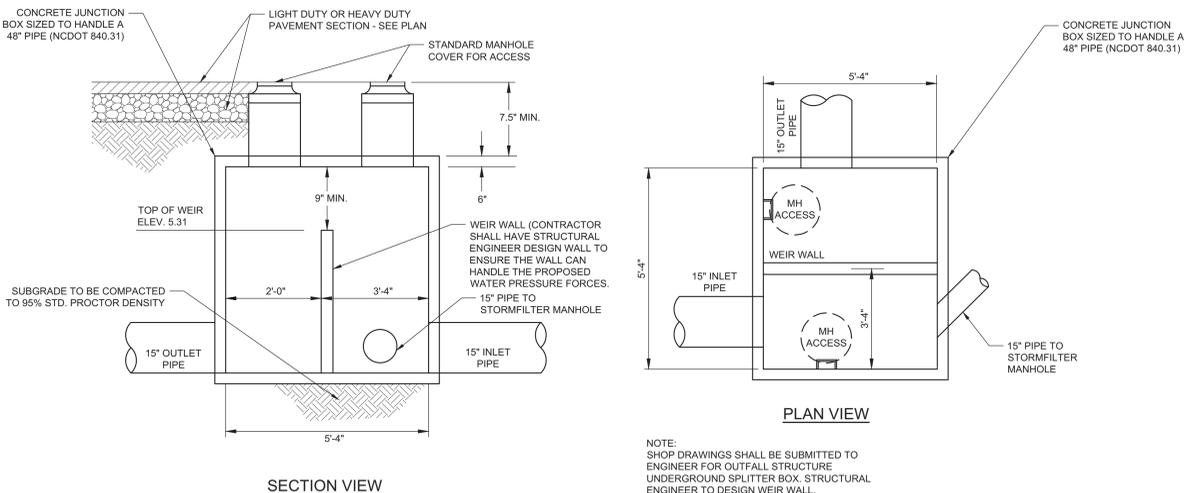




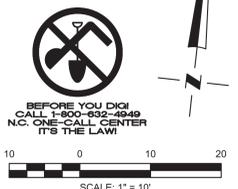
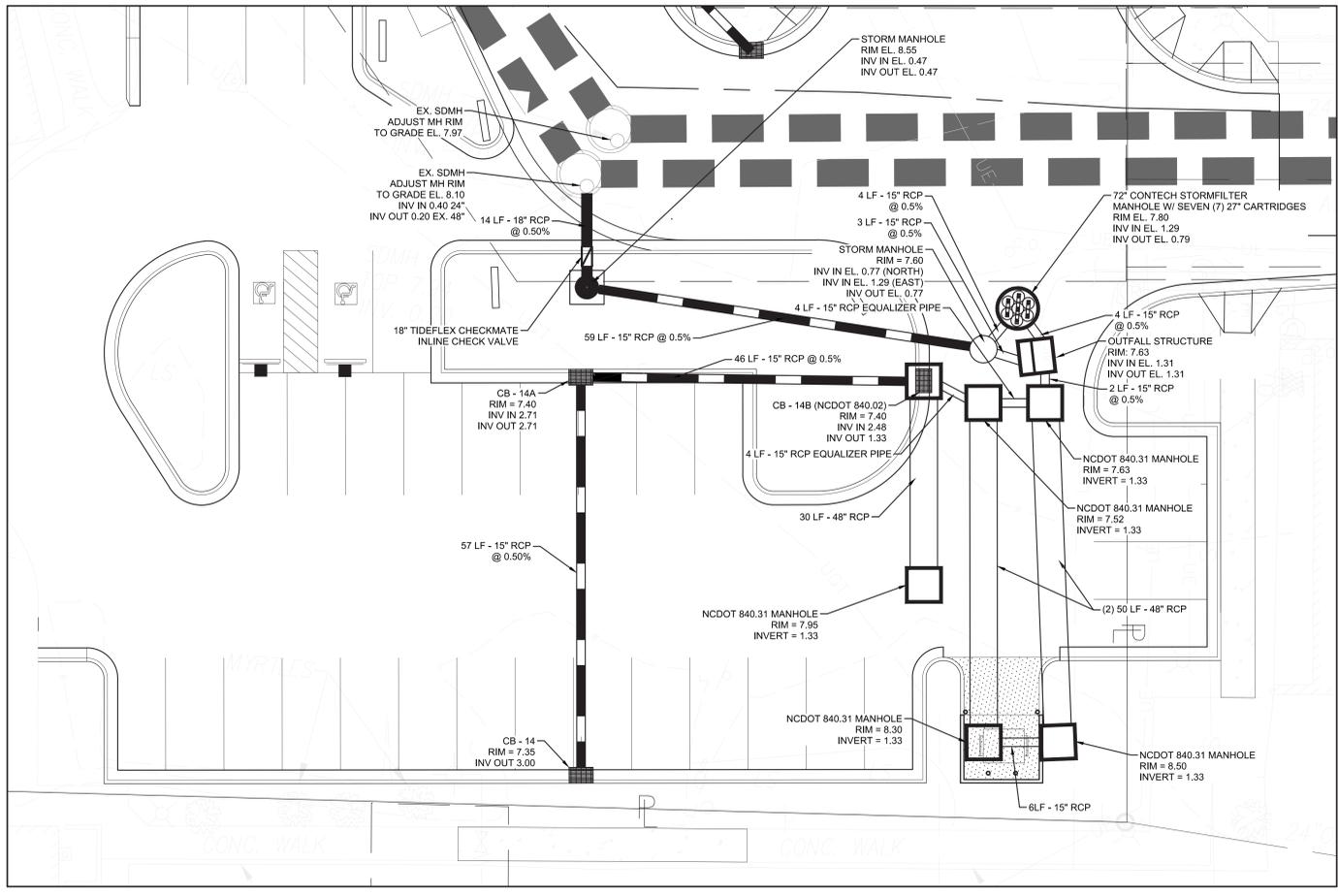
NO.	DATE	DESCRIPTION



UNDERGROUND DETENTION PIPES
NOT TO SCALE



OUTFALL STRUCTURE UNDERGROUND SPLITTER BOX
NOT TO SCALE



ISSUE BLOCK	
MARK	DATE
PROJECT NO:	20130038.00.WL
DATE:	5/9/14
SCALE:	N.T.S.
DRAWN BY:	NS / PROJ MGR: DLF
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EROSION CONTROL NOTES
SEEDBED PREPARATION NOTES

- SURFACE WATER CONTROL MEASURES TO BE INSTALLED ACCORDING TO PLAN. COMPLETE GRADING BEFORE PREPARING SEEDBED.
- AREAS TO BE SEEDBED SHALL BE RIPPED AND SPREAD WITH AVAILABLE TOPSOIL 3" DEEP ON SLOPES 2:1 OR FLATTER. TOTAL SEEDBED PREPARED DEPTH SHALL BE 4" TO 6" DEEP. IF SOILS ARE COMPACTED DURING GRADING, LOOSEN TO A DEPTH OF 6" TO 8".
- LOOSE ROCKS, ROOTS AND OTHER OBSTRUCTIONS SHALL BE REMOVED FROM THE SURFACE TO PREVENT INTERFERENCE WITH ESTABLISHMENT AND MAINTENANCE OF VEGETATION.
- APPLY LIME ACCORDING TO SOIL TEST RECOMMENDATIONS. SOILS WITH pH HIGHER THAN 6 NEED NOT BE LIMED. IF pH IS NOT KNOWN, APPLY LIME ACCORDING TO SEEDING SPECIFICATIONS BELOW. APPLY LIMESTONE AND INCORPORATE INTO TOP 4" TO 6" OF SOIL.
- APPLY FERTILIZER ACCORDING TO SOIL TEST RECOMMENDATIONS. IF NO SOIL TEST HAS BEEN PERFORMED, APPLY FERTILIZER ACCORDING TO SEEDING SPECIFICATIONS BELOW.
- ROUGHEN SEEDBED SURFACE PRIOR TO APPLICATION. GROOVE OR FURROW SLOPES STEEPER THAN 3:1.
- FOR TEMPORARY SEEDING OF AREAS WHICH WILL NOT BE BROUGHT TO FINAL GRADE FOR MORE THAN 15 WORKING DAYS, FOLLOW THE TEMPORARY SEEDING SPECIFICATIONS BELOW.

PERMANENT SEEDING SPECIFICATIONS - (P)
LOW MAINTENANCE AREAS

DATES	TYPE	RATE
AUG. 25 - SEPT. 15	TALL FESCUE	100 LB/ACRE
FEB. 15 - MAR. 21	SERICA LESPEDeza	30 LB/ACRE
	KOBE LESPEDeza	10 LB/ACRE

GENTLE SLOPES, AVERAGE SOILS

DATES	TYPE	RATE
AUG. 25 - SEPT. 15	TALL FESCUE	80 LB/ACRE
FEB. 15 - MAR. 21	SERICA LESPEDeza	20 LB/ACRE
	KOBE LESPEDeza	10 LB/ACRE

HIGH MAINTENANCE AREAS

DATES	TYPE	RATE
AUG. 25 - SEPT. 15	BLENDED TWO TURF-TYPE 200 - 250 LB/ACRE TALL FESCUES (90%) AND TWO OR MORE KENTUCKY BLUEGRASS VARIETIES (10%)	200 LB/ACRE OR 4 - 5 LB/1000 SF

GENTLE SLOPES, DRIER SOILS, PHYSICAL LIMITATIONS

DATES	TYPE	RATE
AUG. 25 - SEPT. 15	BLENDED 50% KY-31 TALL 200 - 250 LB/ACRE FESCUE AND 50% MIXTURE OF TWO OR MORE TURF TYPE TALL FESCUES	40 - 80 LB/ACRE OR 1 - 2 LB/1000 SF

GRASS-LINED CHANNELS, AVERAGE SOILS

DATES	TYPE	RATE
AUG. 25 - OCT.	TALL FESCUE	200 LB/ACRE OR 4 - 5 LB/1000 SF

GRASS-LINED CHANNELS, DRY SOILS

DATES	TYPE	RATE
APRIL 15 - JUNE 30	COMMON BERMU DA GRASS	40 - 80 LB/ACRE OR 1 - 2 LB/1000 SF

AMENDMENTS SHALL BE APPLIED AT THE RATE OF 4000 LB/ACRE OF GROUND AGRICULTURAL LIMESTONE AND 1000 LB/ACRE OF 10-10-10 FERTILIZER. DRY SOIL GRASS-LINED CHANNELS SHALL USE 3000 LB/ACRE OF GROUND AGRICULTURAL LIMESTONE AND 500 LB/ACRE OF 10-10-10 FERTILIZER. MULCH SHALL BE APPLIED AT THE RATE OF 4000 LB/ACRE OF STRAW. STRAW SHALL BE ANCHORED BY TACKING WITH ASPHALT. NETTING OR MULCH ANCHORING TOOL, LITE OR EROSION MATTING SHALL BE USED IN GRASS LINED CHANNELS TO CALCULATED HIGH WATER DEPTH.

TEMPORARY SEEDING SPECIFICATIONS - (TS)

DATES	TYPE	RATE	AMENDMENTS
JAN. 1 - MAY 1	RYE (GRAIN)	120 LB/ACRE	2000 LB/ACRE GROUND AGRICULTURAL LIME - STONE AND 750 LB/ACRE OF 10-10-10 FERTILIZER
FEB. 15 - MAR. 21	ANNUAL LESPEDeza OR LOBE	50 LB/ACRE	

DATES	TYPE	RATE	AMENDMENTS
MAY 1 - AUG. 15	GERMAN MILLET	40 LB/ACRE	2000 LB/ACRE GROUND AGRICULTURAL LIME - STONE AND 750 LB/ACRE OF 10-10-10 FERTILIZER

DATES	TYPE	RATE	AMENDMENTS
AUG. 15 - DEC. 30	RYE (GRAIN)	120 LB/ACRE	2000 LB/ACRE GROUND AGRICULTURAL LIME - STONE AND 1000 LB/ACRE OF 10-10-10 FERTILIZER

MULCH SHALL BE APPLIED AT THE RATE OF 4000 LB/ACRE STRAW. STRAW SHALL BE ANCHORED BY TACKING WITH ASPHALT. NETTING OR MULCH ANCHORING TOOL.

GRADED SLOPES AND FILLS - THE ANGLE FOR GRADED SLOPES AND FILLS SHALL BE NO GREATER THAN THE ANGLE WHICH CAN BE RETAINED BY VEGETATIVE COVER OR OTHER ADEQUATE EROSION CONTROL DEVICES OR STRUCTURES. IN ANY EVENT, SLOPES LEFT EXPOSED SHALL, WITHIN 21 CALENDAR DAYS OF COMPLETION OF ANY PHASE OF GRADING BE PLANTED OR OTHERWISE PROVIDED WITH GROUND COVER, DEVICES OR STRUCTURES SUFFICIENT TO RESTRAIN EROSION.

GROUND COVER - WHENEVER LAND DISTURBING ACTIVITY IS UNDERTAKEN ON A TRACT COMPRISING MORE THAN ONE ACRE, IF MORE THAN ONE CONTIGUOUS ACRE IS UNCOVERED & A GROUND COVER SUFFICIENT TO RESTRAIN EROSION MUST BE PLANTED OR OTHERWISE PROVIDED WITHIN 21 CALENDAR DAYS ON THAT PORTION OF THE TRACT UPON WHICH FURTHER ACTIVE CONSTRUCTION IS NOT BEING UNDERTAKEN, PROVIDED THAT THIS SHALL NOT APPLY TO CLEARED LAND FORMING THE BASIN OF A RESERVOIR LATER TO BE INUNDATED.

MAINTENANCE REQUIREMENTS

- RESEED AND MULCH SEEDED AREAS WHERE SEEDLING EMERGENCE IS POOR, OR WHERE EROSION OCCURS, AS SOON AS POSSIBLE. DO NOT MOW. PROTECT FROM TRAFFIC AS MUCH AS POSSIBLE.
- MOW SEEDED AREAS NO MORE THAN ONCE A YEAR. RESEED, FERTILIZE, AND MULCH DAMAGED AREAS IMMEDIATELY.
- RIPRAP SHOULD BE INSPECTED PERIODICALLY FOR SCOUR OR DISLODGED STONES. CONTROL OF WEED AND BRUSH GROWTH MAY BE NEEDED IN SOME LOCATIONS.
- INSPECT PERMANENT DIVERSIONS AFTER EVERY RAINFALL DURING THE CONSTRUCTION OPERATION. IMMEDIATELY REMOVE ANY OBSTRUCTIONS FROM THE FLOW AREA, AND REPAIR THE DIVERSION RIDGE. CHECK OUTLETS AND MAKE TIMELY REPAIRS AS NEEDED. MAINTAIN THE VEGETATION IN A VIGOROUS, HEALTHY CONDITION AT ALL TIMES.
- INSPECT CHANNELS AT REGULAR INTERVALS AS WELL AS AFTER MAJOR RAINS AND MAKE REPAIRS PROMPTLY. GIVE SPECIAL ATTENTION TO THE OUTLET AND INLET SECTIONS OTHER POINTS WHERE CONCENTRATED FLOW ENTERS. SCOUR HOLES OR BANK FAILURES, MAKE REPAIRS 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.
- INSPECT TEMPORARY SEDIMENT TRAPS AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (1/2 INCH OR GREATER) RAINFALL EVENT AND REPAIR IMMEDIATELY. 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 DESIGNATED DISPOSAL AREA, AND REPLACE THE PART OF THE GRAVEL FACING THAT IS IMPAIRED BY SEDIMENT.

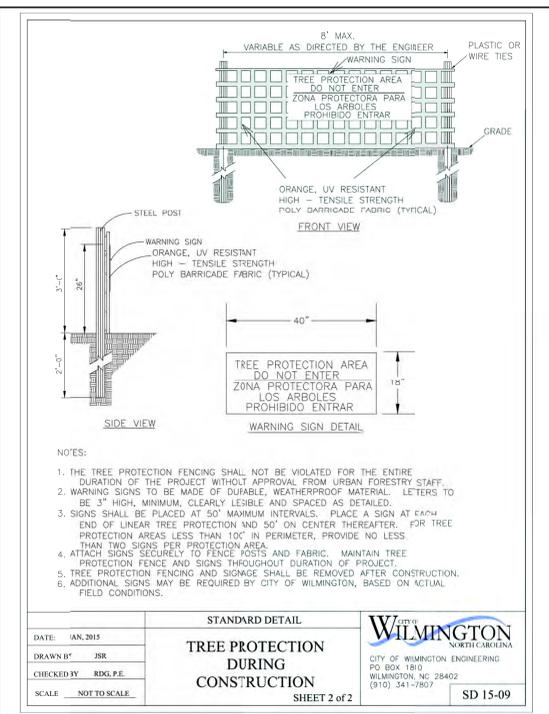
CHECK STRUCTURES FOR DAMAGE FROM EROSION OR PIPING. PERIODICALLY CHECK THE DEPTH OF THE SPILLWAYS TO ENSURE THEY ARE MINIMUM OF 1.5 FEET BELOW THE LOW POINT OF THE EMBANKMENT. IMMEDIATELY FILL ANY SETTLEMENT OF THE EMBANKMENT TO SLIGHTLY ABOVE DESIGN GRADE. ANY RIPRAP DISPLACED FROM THE SPILLWAY MUST BE REPLACED IMMEDIATELY.

AFTER ALL SEDIMENT-PRODUCING AREAS HAVE BEEN PERMANENTLY STABILIZED, REMOVE THE STRUCTURES AND ALL UNSTABLE SEDIMENT. SMOOTH THE AREA TO BLEND WITH THE ADJOINING AREAS, AND STABILIZE PROPERLY.

- INSPECT INLETS AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (1/2 INCH OR GREATER) RAINFALL EVENT. CLEAR THE MESH WIRE OF ANY DEBRIS OR OTHER OBJECTS TO PROVIDE ADEQUATE FLOW FOR SUBSEQUENT RAINS. TAKE CARE NOT TO DAMAGE OR UNDERCUT THE WIRE MESH DURING SEDIMENT REMOVAL. REPLACE STONE AS NEEDED.
- INSPECT SILT FENCES AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY. SHOULD THE FABRIC OF A SILT 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.
- ALL CONSTRUCTION ENTRANCES WILL BE PERIODICALLY TOP DRESSED WITH AN ADDITIONAL 2 INCHES OF NO. 4 STONE TO MAINTAIN PROPER DEPTH. ANY SEDIMENT THAT IS TRACKED INTO THE STREET WILL BE IMMEDIATELY REMOVED.
- 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.

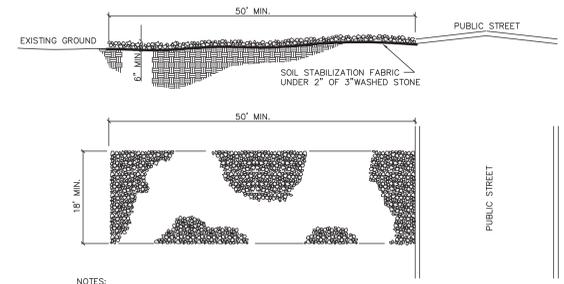
ANTICIPATE SUBMERGENCE AND DEPOSITION ABOVE THE CHECK DAM AND EROSION FROM HIGH FLOWS AROUND THE EDGES OF THE DAM. CORRECT ALL DAMAGE IMMEDIATELY. IF SIGNIFICANT EROSION OCCURS BETWEEN DAMS, ADDITIONAL MEASURES CAN BE TAKEN SUCH AS, INSTALLING A PROTECTIVE RIPRAP LINER IN THAT PORTION OF THE CHANNEL.

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.



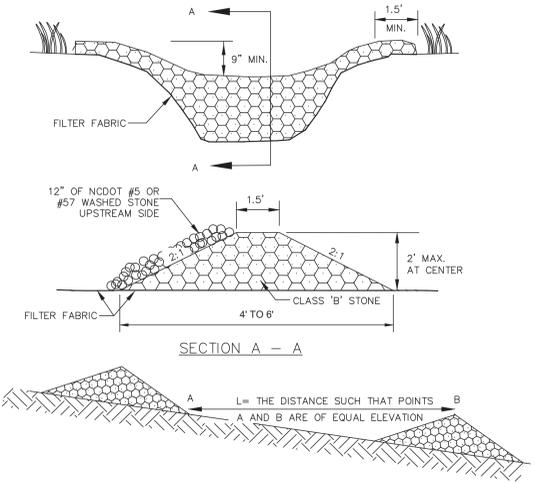
EROSION AND SEDIMENT CONTROL NOTES:

- STABILIZATION MEASURES INCLUDING TEMPORARY GRASSING SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN FOURTEEN (14) DAYS AFTER WORK HAS CEASED, EXCEPT AS STATED BELOW.
 - WHERE CONSTRUCTION ACTIVITY ON A PORTION OF THE SITE IS TEMPORARILY CEASED, AND EARTH-DISTURBING ACTIVITIES WILL BE RESUMED WITHIN 14 DAYS, TEMPORARY STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE.
- ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSPECTED EVERY SEVEN (7) DAYS. IF SITE INSPECTIONS IDENTIFY DEVICES THAT ARE DAMAGED OR ARE NOT OPERATING EFFECTIVELY, MAINTENANCE MUST BE PERFORMED AS SOON AS PRACTICAL OR AS REASONABLY POSSIBLE AND BEFORE THE NEXT STORM EVENT WHENEVER PRACTICABLE.
- PROVIDE SILT FENCE AND/OR OTHER CONTROL DEVICES, AS MAY BE REQUIRED, TO CONTROL SOIL EROSION DURING UTILITY CONSTRUCTION. ALL DISTURBED AREAS SHALL BE CLEANED, GRADED, AND STABILIZED WITH GRASSING IMMEDIATELY AFTER THE UTILITY INSTALLATION. FILL, COVER, AND TEMPORARY SEEDING AT THE END OF EACH DAY ARE RECOMMENDED.
- ALL EROSION CONTROL DEVICES SHALL BE PROPERLY MAINTAINED DURING ALL PHASES OF CONSTRUCTION UNTIL THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES AND ALL DISTURBED AREAS HAVE BEEN STABILIZED. ADDITIONAL CONTROL DEVICES MAY BE REQUIRED DURING CONSTRUCTION IN ORDER TO CONTROL EROSION AND/OR OFFSITE SEDIMENTATION. ALL TEMPORARY CONTROL DEVICES SHALL BE REMOVED ONCE CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED.
- THE CONTRACTOR MUST TAKE NECESSARY ACTION TO MINIMIZE THE TRACKING OF MUD ONTO PAVED ROADWAYS(S) FROM CONSTRUCTION AREAS AND THE GENERATION OF DUST. THE CONTRACTOR SHALL DAILY REMOVE MUD/SOIL FROM PAVEMENT, AS MAY BE REQUIRED.
- TEMPORARY DIVERSION BERMS AND/OR DITCHES WILL BE PROVIDED AS NEEDED DURING CONSTRUCTION TO PROTECT WORK AREAS FROM UPSLOPE RUNOFF AND/OR TO DIVERT SEDIMENT-LADEN WATER TO APPROPRIATE TRAPS OR STABLE OUTLETS.
- LITTER, CONSTRUCTION DEBRIS, OILS, FUELS, AND BUILDING PRODUCTS WITH SIGNIFICANT POTENTIAL FOR IMPACT (SUCH AS STOCKPILES OF FRESHLY TREATED LUMBER) AND CONSTRUCTION CHEMICALS THAT COULD BE EXPOSED TO STORM WATER MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE IN STORM WATER DISCHARGES.
- INLET PROTECTION IS TO BE PROVIDED AT ALL EXISTING INLETS THAT RECEIVE FLOW FROM THE DISTURBED AREAS.
- CONTRACTOR SHALL PROVIDE ONE STABILIZED CONSTRUCTION ENTRANCE AT ALL TIMES DURING CONSTRUCTION. LOCATION SHALL BE FIELD LOCATED AND COORDINATED WITH THE OWNER.



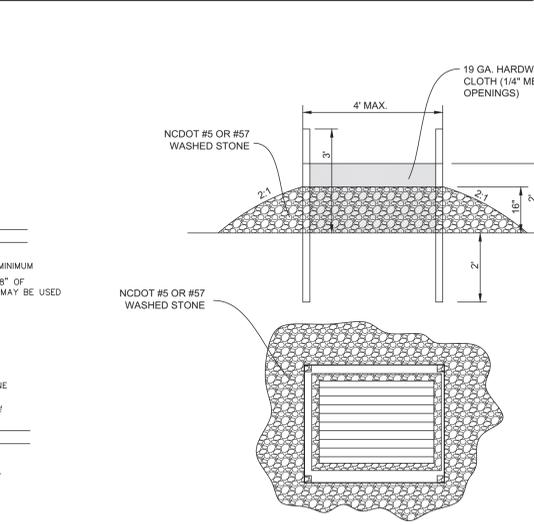
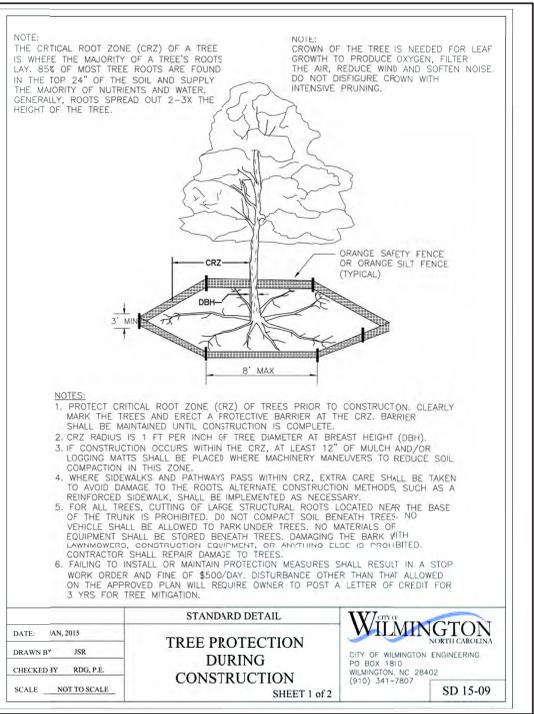
- NOTES:**
- A STABILIZED ENTRANCE PAD OF 2" OF 3" SIZE COURSE STONE OR RAIL ROAD BALLAST SHALL BE LOCATED WHERE TRAFFIC WILL ENTER OR LEAVE THE CONSTRUCTION SITE ONTO A PUBLIC STREET.
 - FILTER FABRIC OR COMPACTED CRUSHER RUN STONE MAY BE USED AS A BASE FOR THE CONSTRUCTION ENTRANCE.
 - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC STREETS OR EXISTING PAVEMENT. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS WARRANT AND REPAIR OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
 - ANY SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PUBLIC STREETS MUST BE REMOVED IMMEDIATELY.
 - WHEN APPROPRIATE, WHEELS MUST BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTERING A PUBLIC STREET. WHEN WASHING IS REQUIRED, IT SHALL BE DONE IN AN AREA STABILIZED WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED SEDIMENT BASIN.
 - SOIL STABILIZATION FABRIC (AS SPECIFIED BY THE DESIGNER) SHALL BE USED.

STABILIZED CONSTRUCTION ENTRANCE
 NOT TO SCALE

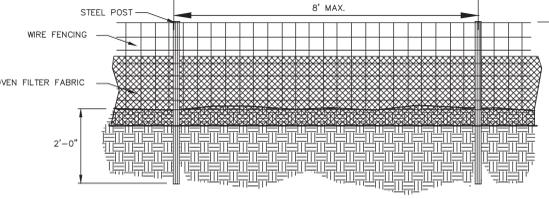


- PLACE STONE TO THE LINES AND DIMENSIONS SHOWN IN THE PLAN ON A FILTER FABRIC FOUNDATION.
- KEEP THE CENTER STONE SECTION AT LEAST 9 INCHES BELOW NATURAL GROUND LEVEL WHERE THE DAM ABUTS THE CHANNEL BANKS.
- EXTEND STONE AT LEAST 1.5 FT. BEYOND THE DITCH BANK TO KEEP WATER FROM CUTTING AROUND THE ENDS OF THE CHECK DAM.
- SET SPACING BETWEEN DAMS TO ASSURE THAT THE ELEVATION AT THE TOP OF THE LOWER DAM IS THE SAME AS THE TOE ELEVATION OF THE UPPER DAM.
- PROTECT THE CHANNEL AFTER THE LOWEST CHECK DAM FROM HEAVY FLOW THAT COULD CAUSE EROSION.
- MAKE SURE THAT THE CHANNEL REACH ABOVE THE MOST UPSTREAM DAM IS STABLE.
- ENSURE THAT OTHER AREAS OF THE CHANNEL, SUCH AS CULVERT ENTRANCES BELOW CHECK DAMS, ARE NOT SUBJECT TO DAMAGE OR BLOCKAGE FROM DISPLACED STONES.

TEMPORARY ROCK CHECK DAM
 NOT TO SCALE



DROP INLET PROTECTION
 NOT TO SCALE



- GENERAL NOTES:**
- FILTER FABRIC FENCE SHALL BE A MINIMUM OF 32" IN WIDTH AND SHALL HAVE A MINIMUM OF 6 LINE WIRES WITH 12" STAY SPACING.
 - WOVEN FILTER FABRIC BE USED WHERE SILT FENCE IS TO REMAIN FOR A PERIOD OF MORE THAN 30 DAYS.
 - STEEL POSTS SHALL BE 5'-0" IN HEIGHT AND BE OF THE SELF-FASTENER ANGLE STEEL TYPE.
 - WIRE FENCING SHALL BE AT LEAST #10 GAGE WITH A MINIMUM OF 6 LINE WIRES WITH 12" STAY SPACING.
 - TURN SILT FENCE UP SLOPE AT ENDS.
 - WIRE MESH SHALL BE MIN. 13 GAGE WITH MAXIMUM 12" OPENINGS.
 - WIRE AND WASHED STONE WILL BE REQUIRED AND NOTED ON PLANS WHEN:
 - AT TOE OF SLOPES GREATER THAN 10 FEET VERTICAL (2:1 SLOPE)
 - AT DENUDDED LIMITS WHERE AN UNDISTURBED BUFFER IS 50 FEET OR LESS AWAY

SILT FENCE
 NOT TO SCALE