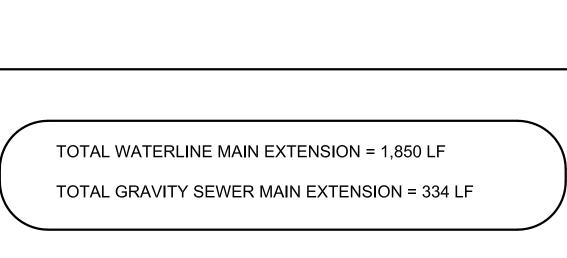
CONSTRUCTION PLANS FOR CIVIL WORKS CONTRACTING

190 Raleigh Street Wilmington, North Carolina





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(INCLUDING OFFSITE)

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COVER

CU100

CU101

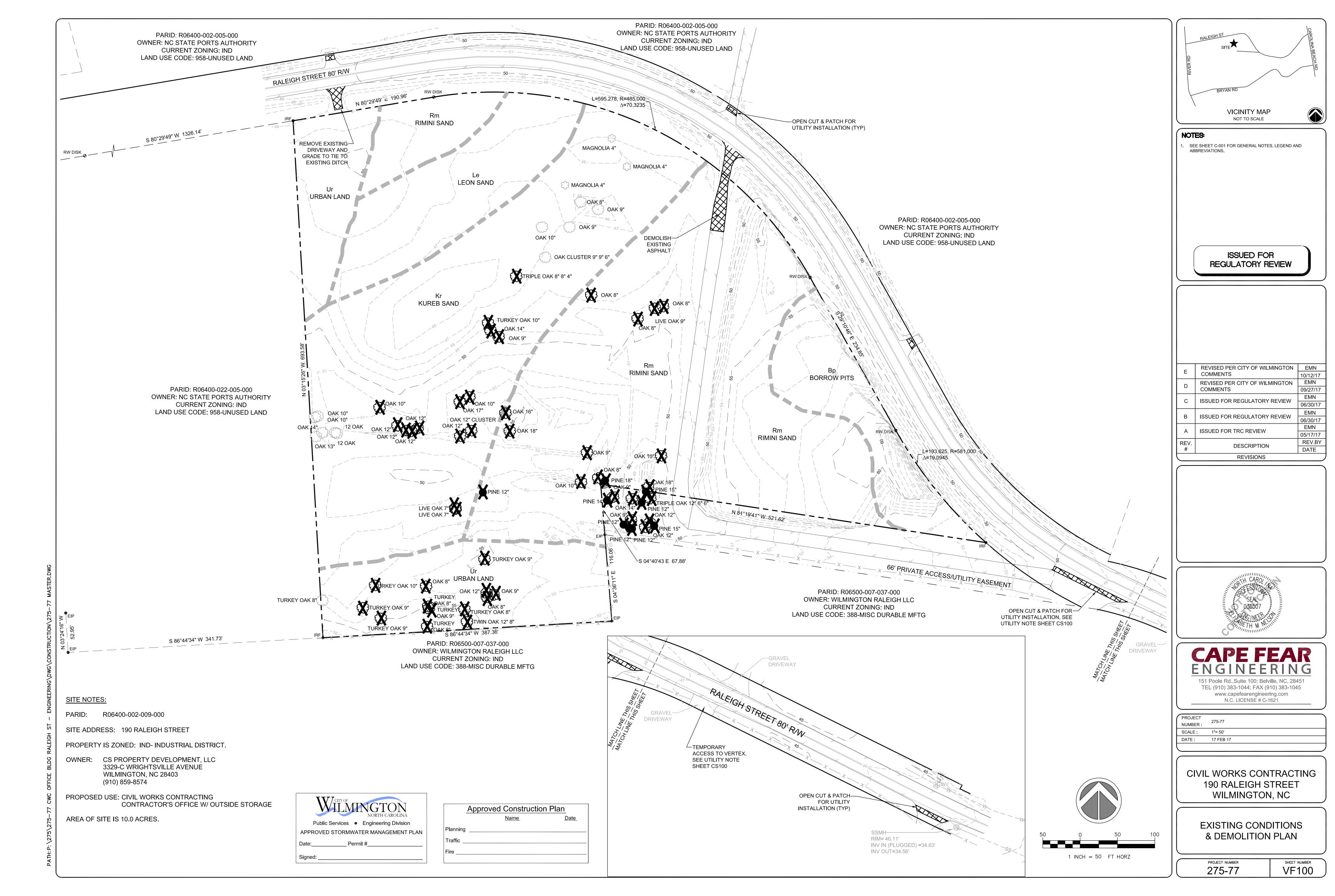
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N.C. LICENSE # C-1621

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	AIN EXTENSION = 1,850 LF ER MAIN EXTENSION = 334 LF
SEAL 030507	P.E. DATE
WILMINGTON NORTH CAROLINA	Approved Construction

Public Services • Engineering Division APPROVED STORMWATER MANAGEMENT PLAN



EXISTING CONDITION NOTES

- THE DRAWING IS BASED ON SURVEY BY CAPE FEAR ENGINEERING, INC. ON OCTOBER 10 THROUGH 14, AND OCTOBER 17, AND NOVEMBER 11, 2016.
- ALL HORIZONTAL DATUM IS BASED ON NAD 83 NORTH CAROLINA STATE PLANE US FOOT. ALL VERTICAL DATUM IS BASED ON NAVD 88.
- ADJOINING PROPERTY OWNERS BASED ON INFORMATION FOUND IN THE NEW HANOVER COUNTY REGISTER OF DEEDS.
- REFERENCE: MAP BOOK 49, PAGE 176, DEED BOOK 5910, PAGE 2592.
- NO BOUNDARY WORK PERFORMED. BOUNDARY BASED ON A MAP BY HANOVER DESIGNS FOR N.C. STATE PORTS AUTHORITY, RALEIGH STREET DIVISION.
- NO WETLANDS ARE PRESENT WITHIN THE PROJECT BOUNDARY, AS DETERMINED BY NEEDHAM ENVIRONMENTAL INC. ON DECEMBER 02, 2016.
- THE PROJECT SITE LIES WITHIN FLOOD ZONE "X" AS DESCRIBED ON THE FLOOD INSURANCE RATE MAP COMMUNITY MAP 372031 PANEL 2500J WITH AN EFFECTIVE DATE OF APRIL 3, 2006.
- THIS PROJECT IS IN THE CAMA LAND USE CLASSIFICATION OF URBAN.
- SOIL DATA DIGITIZED FROM MAP CREATED BY USDA NRCS WEB SOIL SURVEY.
- 10. THERE ARE NO KNOWN CONSERVATION RESOURCES WITHIN THE PROJECT BOUNDARY.
- 11. THERE ARE NO KNOWN LOCAL, STATE, OR FEDERALLY RECOGNIZED HISTORIC STRUCTURE(S) OR ARCHEOLOGICAL RESOURCES WITHIN THE PROJECT BOUNDARY.
- 12. THERE ARE NO EXISTING OR KNOWN PROPOSED THOROUGHFARES, BIKE ROUTES, PEDESTRIAN SIDEWALKS, PEDESTRIAN TRAILS OR TRANSIT FACILITIES WITHIN OR ADJACENT TO THE SUBJECT PROJECT BOUNDARY.
- 13. EXISTING UTILITY INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATION, VERIFICATION, SUPPORT AND PROTECTION OF ALL ABOVE GROUND AND UNDERGROUND UTILITIES TO REMAIN IN PLACE, INCLUDING ANY UTILITIES NOT INDICATED ON THESE DRAWINGS. ANY CONFLICTS OR DISCREPANCIES SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION IMMEDIATELY.
- 4. CONTRACTOR SHALL PROTECT ALL EXISTING STRUCTURES, PAVEMENT, UTILITIES, AND OTHER PROPERTY UNLESS THEY ARE TO BE DEMOLISHED. ANY PROPERTY NOT AUTHORIZED FOR REMOVAL, BUT DAMAGED BY THE CONTRACTOR SHALL BE RESTORED BY THE CONTRACTOR TO THE ENGINEER'S OR OWNER'S SATISFACTION AT NO ADDITIONAL EXPENSE TO THE OWNER.
- 5. CONTRACTOR SHALL MAKE EVERY EFFORT TO SAVE PROPERTY IRONS, MONUMENTS. OTHER PERMANENT POINTS AND LINES OF REFERENCE AND CONSTRUCTION STAKES. PROPERTY IRONS, MONUMENTS, AND OTHER PERMANENT POINTS OF REFERENCE DESTROYED BY THE CONTRACTOR SHALL BE REPLACED BY A NORTH CAROLINA LICENSED LAND SURVEYOR AT THE CONTRACTOR'S EXPENSE.
- 6. THE CONTRACTOR SHALL MAKE SURE THAT WORK PERFORMED ON THIS PROJECT SHALL NOT IMPACT THE OPERATION OF ANY ADJACENT PROPERTIES.
- 17. THE CONTRACTOR SHALL SEQUENCE WORK AS NECESSARY TO ENSURE THAT ALL UTILITY SERVICES, INCLUDING FIRE HYDRANTS, REMAIN OPERATIONAL DURING CONSTRUCTION.
- 8. THE CONTRACTOR SHALL RESTORE ANY ACCESS ROADS AND STAGING AREAS USED BACK TO THEIR ORIGINAL CONDITION. ALL DISTURBED AREAS SHALL BE VEGETATED IN ACCORDANCE WITH THE PROJECT PLANS.
- THE CONTRACTOR SHALL TAKE ADEQUATE PROTECTIVE MEASURES TO ENSURE THAT EXISTING PAVEMENT SURFACES ARE NOT DAMAGED FROM TRACKED CONSTRUCTION EQUIPMENT OR ANY OTHER POSSIBLE SOURCE WHEN EQUIPMENT IS BEING MOVED DURING AND AFTER WORK IS BEING CONDUCTED. THE CONTRACTOR SHALL REPAIR ANY PAVED AREAS DAMAGED DURING CONSTRUCTION.
- 20. EXISTING PAVEMENTS AND ALL OTHER AREAS ADJACENT TO THE SITE SHALL BE KEPT CLEAN AT ALL TIMES. DO NOT ALLOW BUILD UP OF SOIL, MUD, DUST OR OTHER DEBRIS.
- 21. ANY AND ALL MATERIAL QUANTITIES INDICATED ON THIS PLAN SET ARE FOR REFERENCE ONLY. THE CONTRACTOR MUST VERIFY ALL MATERIALS QUANTITIES SHOWN.

FREE PROTECTION NOTES:

- TREE PROTECTION FENCING SHALL BE INSTALLED AS REQUIRED PRIOR TO LAND DISTURBING OPERATIONS (INCLUDING TREE REMOVAL) AND IN SUCH A MANNER THAT CLEARLY AND ADEQUATELY SEPARATES ALL TREES TO BE REMOVED FROM TREES TO REMAIN.
- AT THE START OF GRADING INVOLVING THE STRIPPING OF TOPSOIL OR LOWERING OF EXISTING GRADE AROUND A TREE TO REMAIN. 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.
- NO STORAGE OF MATERIALS, FILL, OR EQUIPMENT SHALL BE PERMITTED WITHIN THE PROTECTED AREA(S). NO TRESPASSING SHALL BE ALLOWED WITHIN THE BOUNDARY OF THE PROTECTED AREA(S), 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 CONSTRUCTION SHALL BE INSTALLED AT THE SAME

TIME AS THE EROSION CONTROL MEASURES.

4. THE TREE PROTECTION FENCE SHALL BE MAINTAINED ON THE SITE UNTIL ALL SITE WORK IS COMPLETED AND THE FINAL SITE INSPECTION PRIOR TO THE CERTIFICATE OF OCCUPANCY (CO) IS SCHEDULED. FENCING SHALL BE REMOVED PRIOR TO FINAL INSPECTION.

SITE NOTES:

- 1. CONTRACTOR SHALL MAINTAIN AN ALL-WEATHER ACCESS FOR EMERGENCY VEHICLES AT ALL TIMES DURING CONSTRUCTION..
- 2. NEW HYDRANTS MUST BE BROUGHT INTO SERVICE PRIOR TO COMBUSTIBLE MATERIALS DELIVERED TO THE JOB SITE AND INSTALLED ACCORDING TO CFPUA STANDARDS.
- LANDSCAPING OR PARKING CANNOT BLOCK OR IMPEDE FIRE HYDRANTS. A 3-FOOT CLEAR SPACE SHALL BE MAINTAINED AROUND THE CIRCUMFERENCE OF THE HYDRANTS.
- 4. ADDITIONAL FIRE PROTECTION AND ACCESSIBILITY REQUIREMENTS MAY BE REQUIRED DUE TO ANY SPECIAL CIRCUMSTANCES CONCERNING THE PROJECT.
- INTERNATIONAL BUILDING CODE TYPE IIB CONSTRUCTION IS PROPOSED.
- 6. WASTE DISPOSAL TO BE PROVIDED BY A ROLL-OUT CONTAINER.
- 7. ALL PAVEMENT MARKINGS IN PUBLIC RIGHTS-OF-WAY AND FOR DRIVEWAYS ARE TO BE THERMOPLASTIC AND MEET CITY AND/OR NCDOT STANDARDS.
- 8. ALL TRAFFIC CONTROL SIGNS AND MARKINGS OFF THE RIGHT-OF-WAY ARE TO BE MAINTAINED BY THE PROPERTY OWNER IN ACCORDANCE WITH MUTCD STANDARDS.
- A UTILITY CUT PERMIT IS REQUIRED FOR EACH OPEN CUT OF A CITY STREET. CONTACT 341-5888 FOR MORE DETAILS. IN CERTAIN CASES AN ENTIRE RESURFACING OF THE AREA BEING OPEN CUT MAY BE REQUIRED.
- 10. CONTACT TRAFFIC ENGINEERING AT 341-7888 FORTY-EIGHT HOURS PRIOR TO ANY EXCAVATION IN THE RIGHT-OF-WAY.

SITE DATA:

PARID: R06400-002-009-000

SITE ADDRESS: 190 RALEIGH STREET

PROPERTY IS ZONED: IND-INDUSTRIAL DISTRICT

OWNER: CS PROPERTY DEVELOPMENT, LLC 3329-C WRIGHTSVILLE AVENUE WILMINGTON, NC 28403 (910) 859-8574

PROPOSED USE: CIVIL WORKS CONTRACTING

CONTRACTOR'S OFFICE

AREA OF SITE IS 10.0 ACRES.

SETBACKS

FRONT - 50' **CORNER LOT SIDE - 50'** INTERIOR LOT SIDE - 0' REAR - 0' (ABUTTING STREET 50') **BUILDING HEIGHT: 35' MAXIMUM**

ABBREVIATIONS

EX	EXISTING	SOIL SURVEY BOUNDARY
GFA	GROSS FLOOR AREA	BUILDING
HP	ADS HP POLYPROPYLENE PIPE	CONCRETE PAVEMENT
I.E.	INVERT ELEVATION	ABC
NRCS	NATURAL RESOURCES CONSERVATION SERVICE	CONCRETE SIDEWALK
RCP	REINFORCED CONCRETE PIPE	CURB AND GUTTER
SHWT	SEASONAL HIGH WATER TABLE	GATE
TC	TOP OF CURB	SIGN
TP	TOP OF PAVEMENT	STORMDRAIN PIPE
TSW	TOP OF SIDEWALK	STORMDRAIN INLET
USDA	UNITED STATES DEPARTMENT OF AGRICULTURE	FLARED END SECTION
		STORMWATER CONTROL

WILMINGTON Public Services • Engineering Division APPROVED STORMWATER MANAGEMENT PLAN Permit #

Approved Construction Plan

PROPOSED **EXISTING**

PROPERTY BOUNDARY ADJACENT PROPERTY **EASEMENT GAS LINE** — — — — G— — — — G– ASPHALT PAVEMENT

ASPHALT TO BE **DEMOLISHED**

— X — X — X — X —

ASPHALT ROAD WIDENING

CHAIN LINK FENCE

LEGEND

TELEPHONE PEDESTAL **WOODS LINE**

OAK TREE PINE TREE

CEDAR TREE MAGNOLIA

IRON ROD FOUND **EXISTING IRON PIPE**

RIGHT-OF-WAY DISK -----CONTOURS

LIMITS OF DISTURBANCE

TEMPORARY CONSTRUCTION ENTRANCE

INLET PROTECTION

SILT FENCE

SILT FENCE OUTLET

GRASS (SEE VEGETATION SCHEDULE ON SHEET C-506)

TREE PROTECTION

WATER LINE

WATERLINE VALVE FIRE HYDRANT

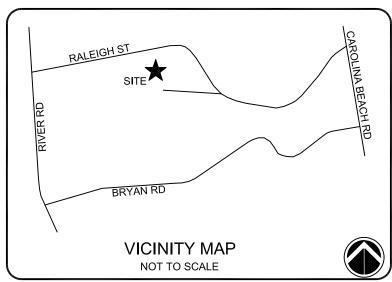
SANITARY SEWER MANHOLE

SANITARY SEWER LINE

MEASURE

SPOT ELEVATION

SETBACK LINE



NOTES: ISSUED FOR REGULATORY REVIEW

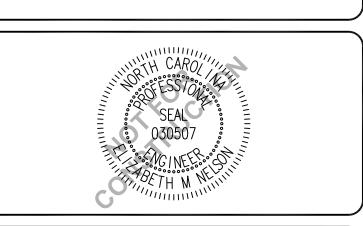
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'	COMMENTS	09/27/17
F	REVISED PER CITY OF WILMINGTON	EMN
	COMMENTS	08/10/17
D	REVISED PER CITY OF WILMINGTON	EMN
	COMMENTS	07/21/17
C	ISSUED FOR REGULATORY REVIEW	EMN
C	1350ED FOR REGULATORY REVIEW	06/30/17
В	ISSUED FOR TRC REVIEW	EMN
Ь	1550ED FOR TRC REVIEW	05/17/17
^	ISSUED FOR REGULATORY REVIEW	EMN
Α		02/21/17
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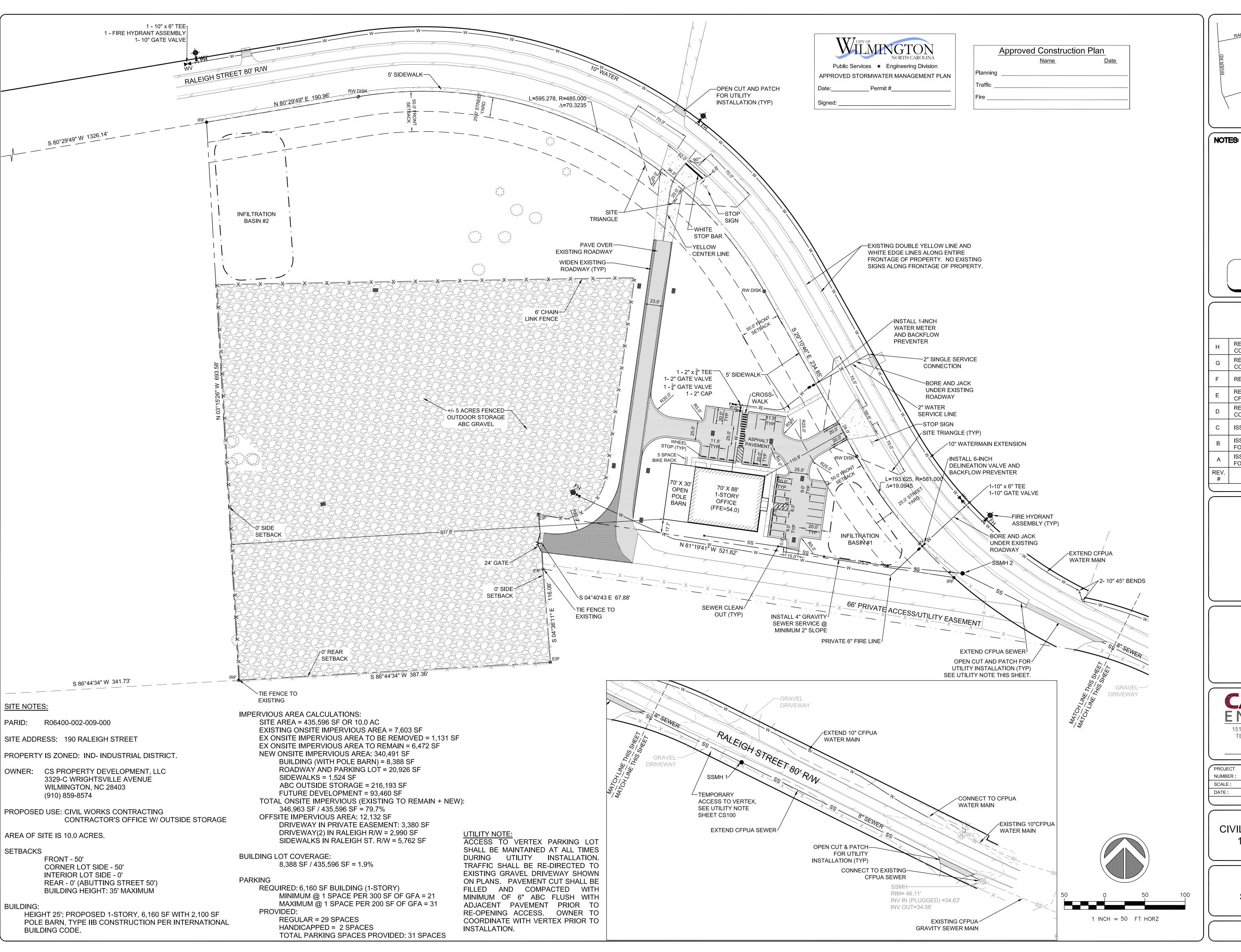
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l	PROJECT	075 77	
l	NUMBER:	275-77	
l	SCALE:	N/A	
l	DATE:	21 FEB 17	
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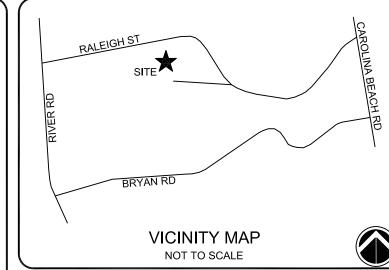
N.C. LICENSE # C-1621

CIVIL WORKS CONTRACTING 190 RALEIGH STREET WILMINGTON, NC

GENERAL NOTES & LEGEND

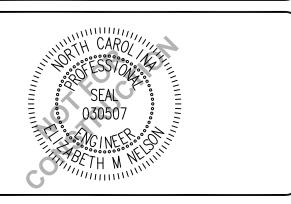
SHEET NUMBER 275-77 C-001





ISSUED FOR **REGULATORY REVIEW**

	REVISED PER CITY OF WILMINGTON	LEMN
Н	COMMENTS	10/12/17
G	REVISED PER CITY OF WILMINGTON	EMN
G	COMMENTS	09/27/17
F	REVISED PER COMMENTS	EMN
Г	REVISED FER COMMENTS	08/10/17
E	REVISED 8" WATERLINE TO 10" PER CFPUA COMMENTS	RAS
		07/27/17
D	REVISED PER CITY OF WILMINGTON	EMN
U	COMMENTS	07/21/17
$\begin{vmatrix} c \end{vmatrix}$	ISSUED FOR REGULATORY REVIEW	EMN
C		06/30/17
В	ISSUED TO CITY OF WILMINGTON	EMN
В	FOR TRC REVIEW	05/17/17
Α	ISSUED TO CITY OF WILMINGTON	EMN
	FOR CONCEPT PLAN REVIEW	03/01/17
REV.	DESCRIPTION	REV.BY
#	# DESCRIPTION	
	REVISIONS	





TEL (910) 383-1044; FAX (910) 383-1045

www.capefearengineering.com

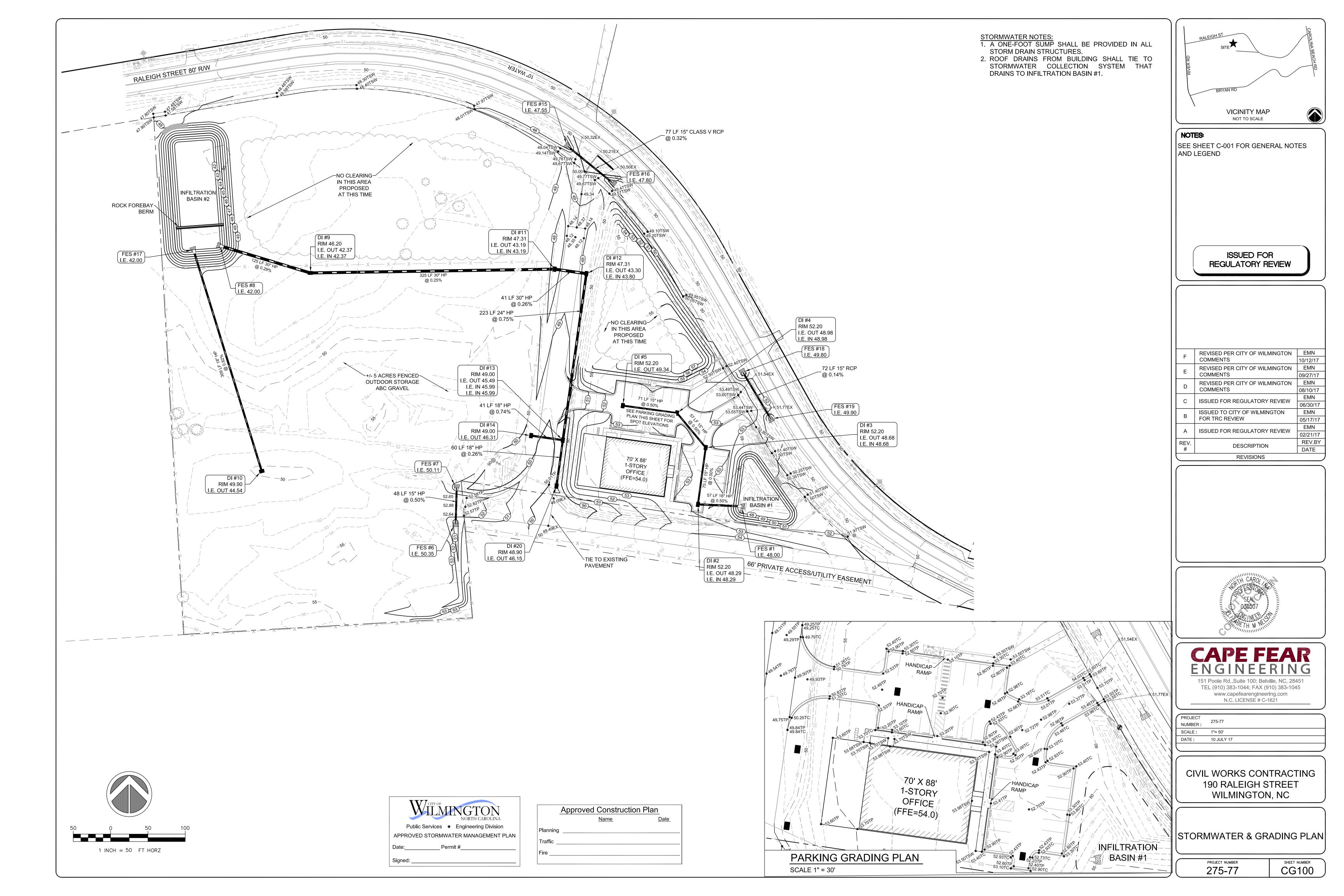
N.C. LICENSE # C-1621

NUMBER:	275-77	
SCALE:	1"= 50'	
DATE:	01 MAR 17	

CIVIL WORKS CONTRACTING 190 RALEIGH STREET WILMINGTON, NC

SITE & UTILITY PLAN

PROJECT NUMBER	SHEET NUMBER
275-77	CS100



TREE MITIGATION CALCULATIONS:

PER SEC 18-456:

Regulated Trees - Hardwoods > 8" DBH

- Conifer > 12" DBH - Dogwoods, Magnolias, Ornamental Flowering, American Hollies > 4" DBH

Significant Trees

- Hardwood, Long Lead Pine, Pocosin (pond) Pine, Black Pine, and non-pine conifer trees

> 24" DBH

- All other pines > 32" DBH

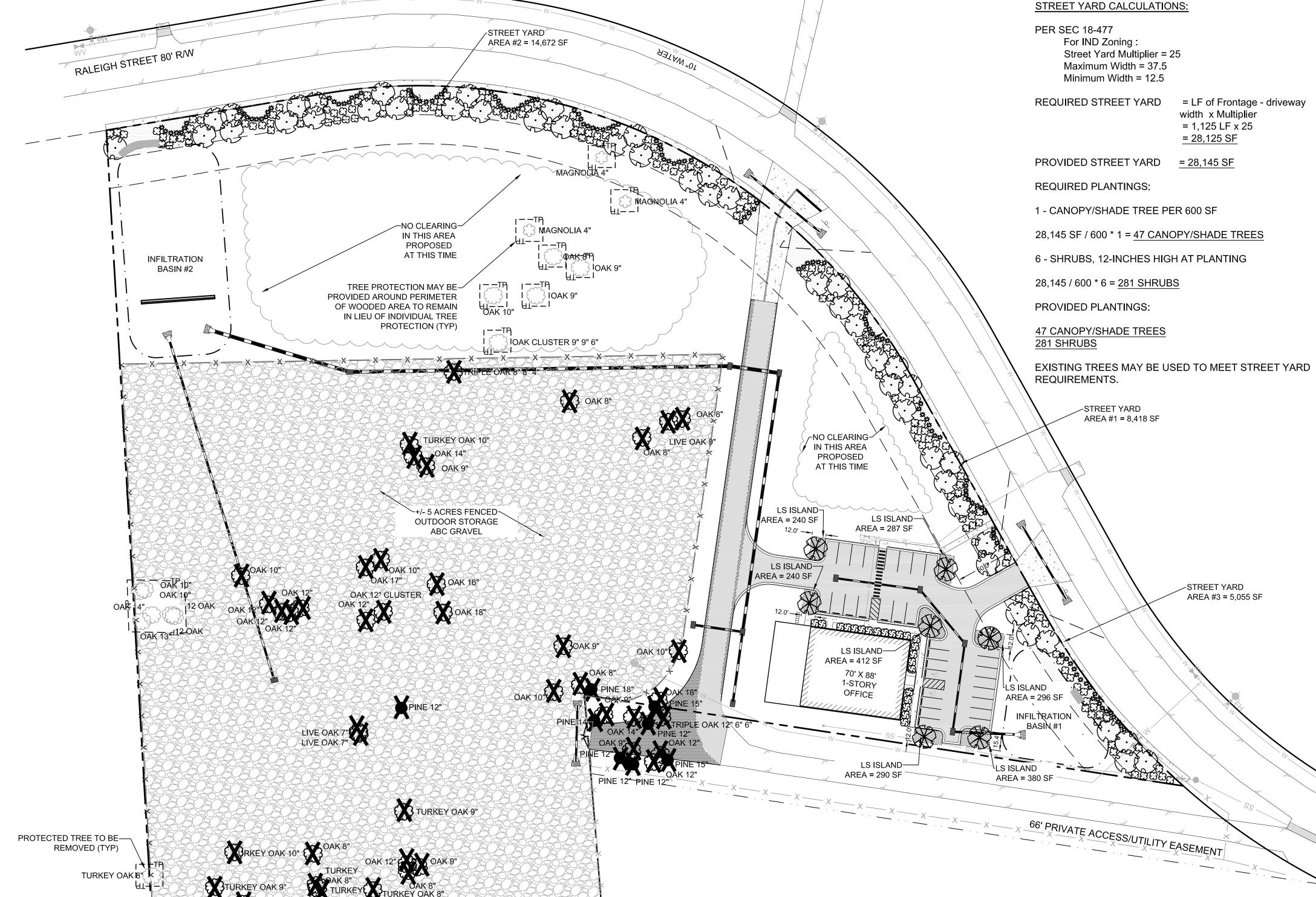
- Dogwoods, Magnolias, Ornamental Flowering, American Hollies > 8" DBH

Regulated Trees to be Removed and Required Mitigation

(Per Section 18-460)

The total number of replacement trees shall be determined for regulated trees removed by multiplying the total DBH of the removed regulated tree(s) by the percentage for the type of tree in Table IV and dividing by three (3)

ALL REGULATED TREES TO BE REMOVED INSIDE OF PROPOSED CONTRACTOR LAY DOWN AREA ARE CONSIDERED EXEMPT FROM MITIGATION PER SECTION 18-461 SINCE LAYDOWN AREA IS AN ESSENTIAL SITE IMPROVEMENT FOR PROPOSED FACILITY. ALL REGULATED TREES OUTSIDE OF LAYDOWN AREA HAVE BEEN PRESERVED.



LANDSCAPING CALCULATIONS

PER SEC 18-490

BUILDING HEIGHT = 25 FT

BUILDING FACE LENGTH NORTH = 88 FT

BUILDING FACE LENGTH EAST = 70 FT

PLANTING FOUNDATIONS REQUIRED:

12% OF BUILDING FACE AREA

BUILDING FACE AREA NORTH = 264 SF

BUILDING FACE AREA EAST = 210 SF

PLANTING FOUNDATIONS PROVIDED:

BUILDING FACE EAST = 300 SF

BUILDING FACE NORTH = 664 SF

LANDSCAPING CALCULATIONS

PER SEC 18-481

PARKING AREA = 14,427 SF

SHADING REQUIRED:

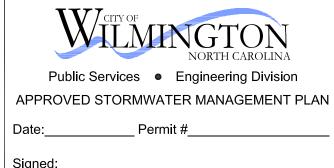
20% OF PARKING AREA = 2,885 SF

SHADING AREA PROVIDED:

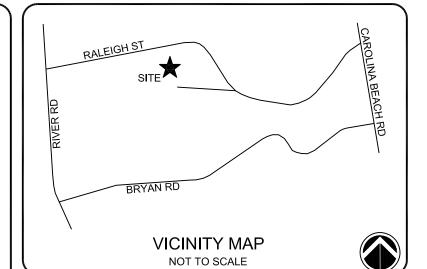
7 - CANOPY TREES @ 707 SF EACH = 4,949 SF

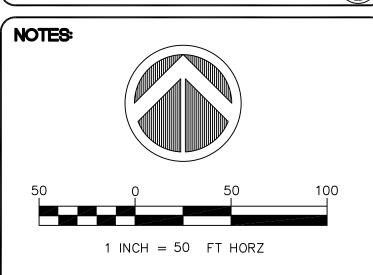
PLANTING SCHEDULE

		STREET BUFFER		
SYMBOL	NAME	BOTANICAL NAME	SIZE	TOTAL NUMBER
TREES				
Sirs	SHADE/CANOPY	QUERCUS VIRGINIANA	2" DIA.	47
SHRUBS				
Ф	SHRUB 1	ABELIA GRANDIFLORA	3 Gal.	154
₩	SHRUB 2	PITTOSPORUM TOBIRA	1 Gal.	127
	PARKING LOT LA	NDSCAPE ISLANDS		
SYMBOL	NAME	BOTANICAL NAME	SIZE	TOTAL NUMBER
TREES				
	SHADE/CANOPY	QUERCUS VIRGINIANA	2" DIA.	7
GROUND C	OVERS			
	GROUND COVER	JUNIPERUS HORIZONTALIS	3 Gal.	N/A
	FOUNDATIO	NS PLANTINGS		
SYMBOL	NAME	BOTANICAL NAME	SIZE	TOTAL NUMBER
SHRUBS				
හු	SHRUB 1	BURFORDI NANA	1 Gal.	22



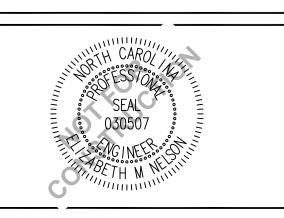
Olgilica.		
	Approved Construction	<u>Plan</u>
	<u>Name</u>	<u>Date</u>
Planning		
Traffic _		
Fire		





ISSUED FOR REGULATORY REVIEW

REVISED PER COMMENTS BY CITY OF WILMINGTON 10/12/17 REVISED PER COMMENTS BY CITY OF WILMINGTON 09/27/17 EMN REVISED PER COMMENTS BY CITY OF WILMINGTON 08/10/17 REVISED PER COMMENTS BY CITY EMN OF WILMINGTON 07/21/17 ISSUED FOR REGULATORY REVIEW 06/30/17 EMN ISSUED FOR TRC REVIEW 05/17/17 REV.BY DESCRIPTION DATE REVISIONS



CAPE FEAR

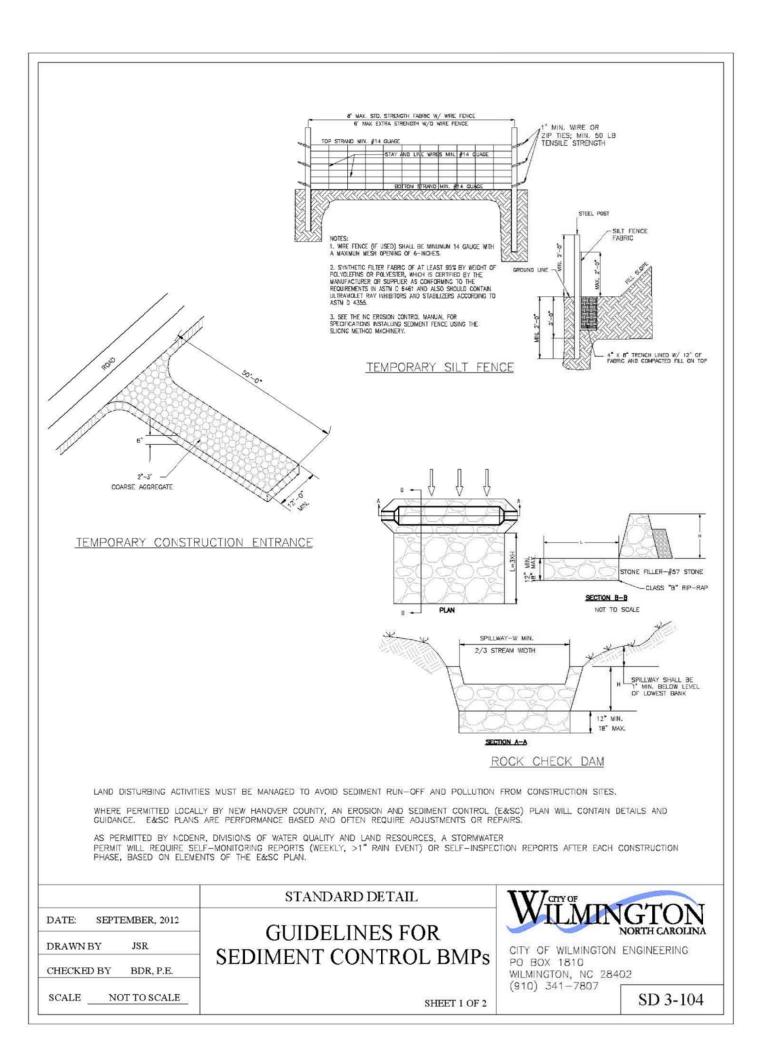
TEL (910) 383-1044; FAX (910) 383-1045 www.capefearengineering.com N.C. LICENSE # C-1621

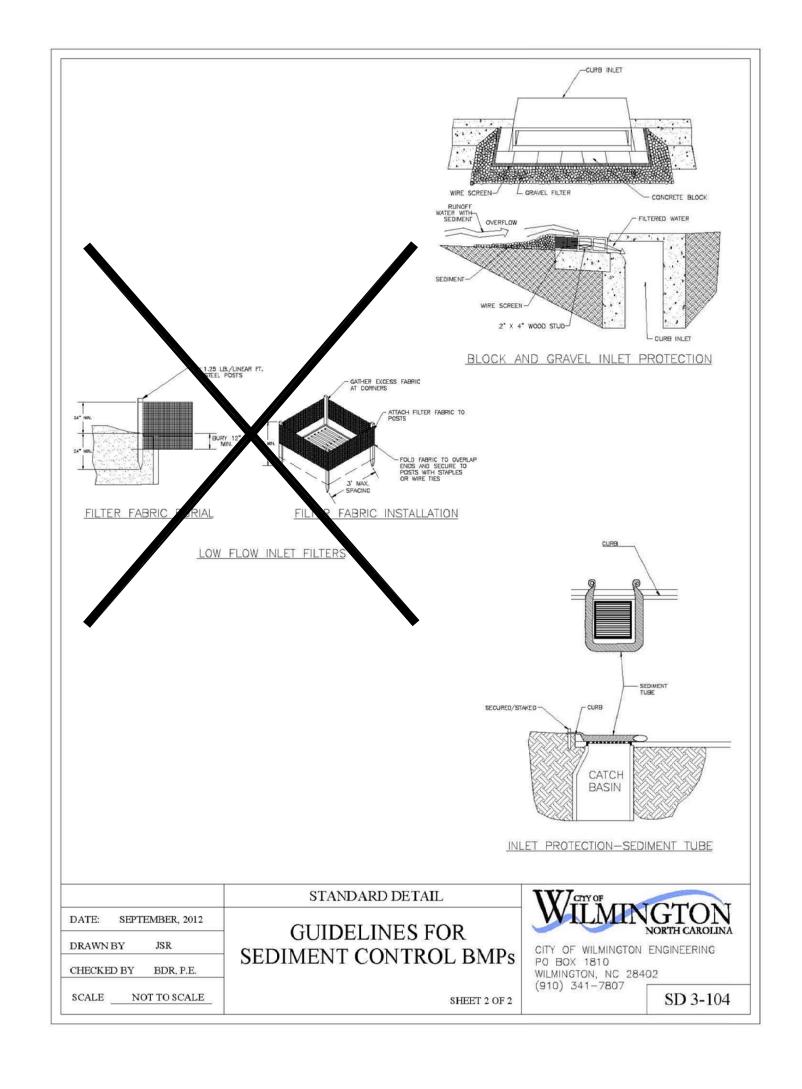
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SCALE:	1"= 50'	
DATE:	24 FEB 17	

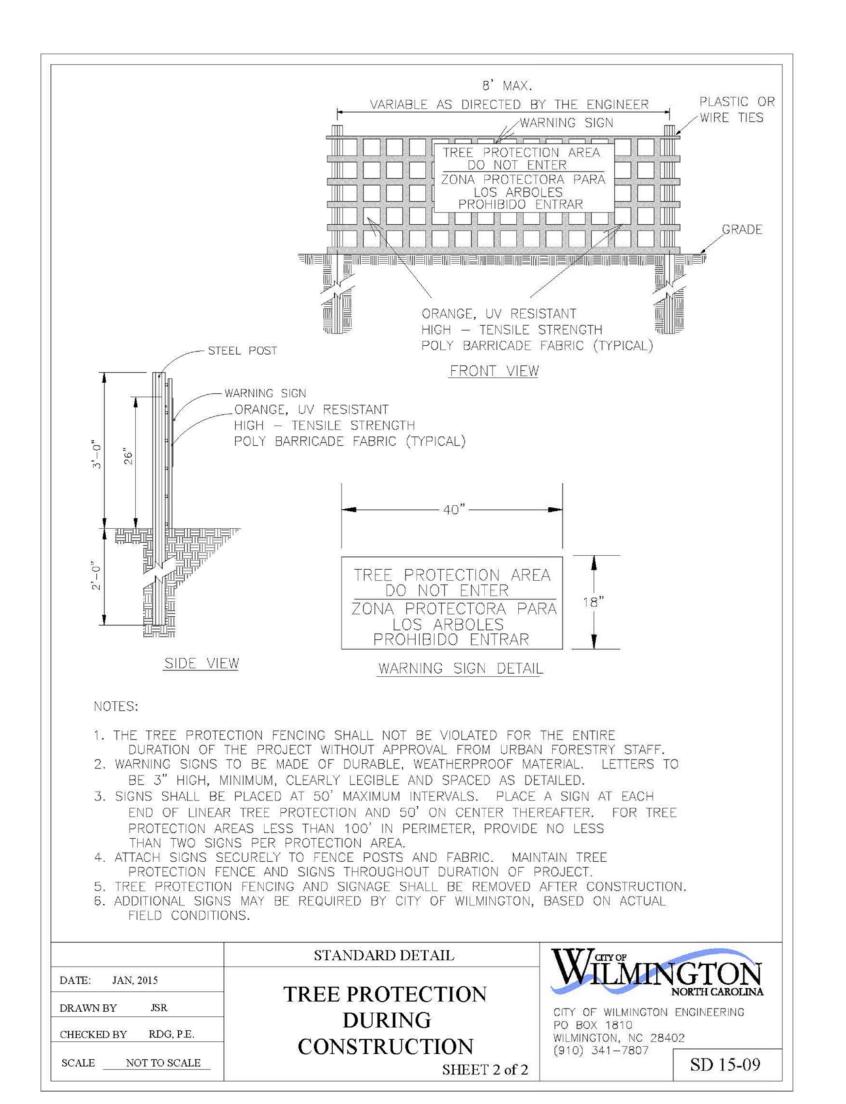
CWC OFFICE 190 RALEIGH STREET WILMINGTON, NC

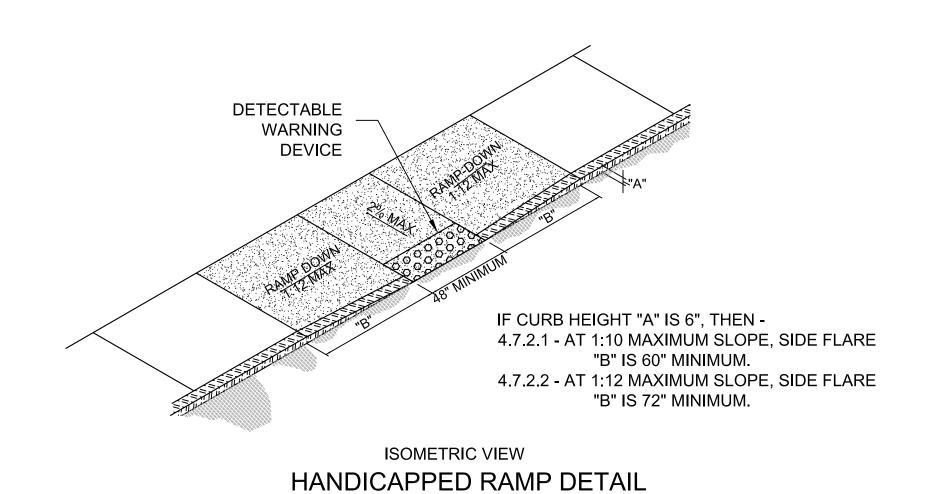
LANDSCAPE PLAN

275-77 LS100

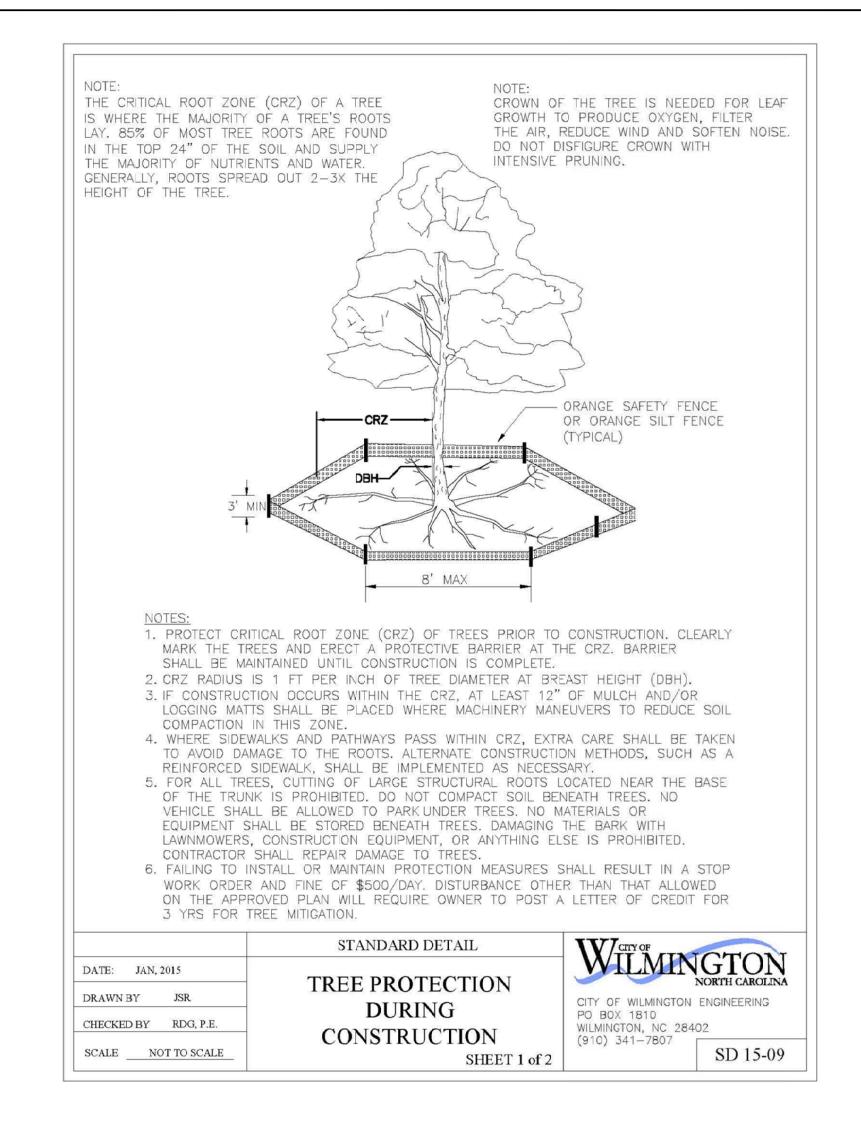


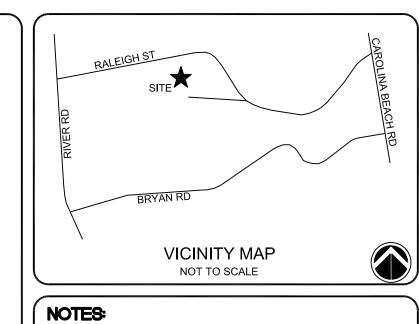






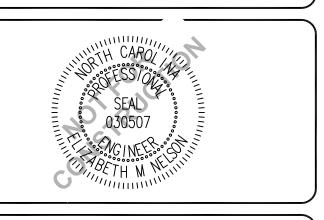
NOT TO SCALE





ISSUED FOR REGULATORY REVIEW

REVISED PER CITY OF WILMINGTON	EMN
COMMENTS	10/12/17
REVISED PER CITY OF WILMINGTON	EMN
COMMENTS	09/27/17
	EMN
REVISED PER NHC COMMENTS	07/31/17
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ISSUED FOR REGULATORY REVIEW	02/21/17
DESCRIPTION	REV.BY
DESCRIPTION	DATE
REVISIONS	
	COMMENTS REVISED PER CITY OF WILMINGTON COMMENTS REVISED PER NHC COMMENTS ISSUED FOR REGULATORY REVIEW ISSUED FOR REGULATORY REVIEW DESCRIPTION





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PROJECT NUMBER :	275-77
SCALE:	As Shown
DATE:	21 FEB 17

CIVIL WORKS CONTRACTING 190 RALEIGH STREET WILMINGTON, NC

SITE DETAILS

PROJECT NUMBER SHEET NUMBER D-500

Name Date

Planning

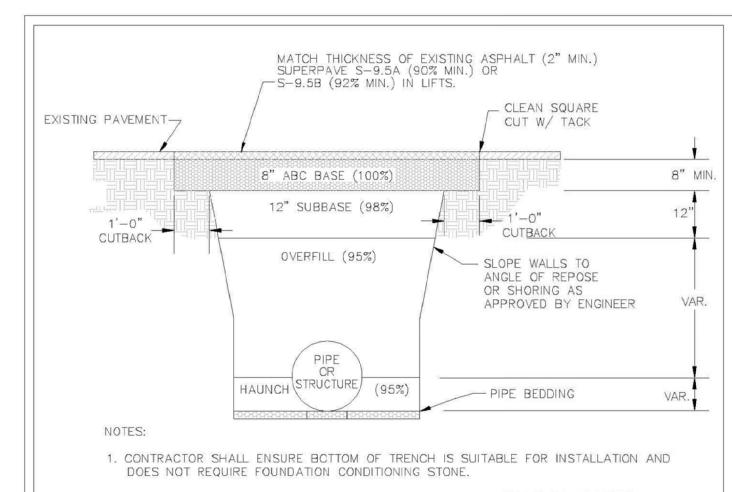
Fraffic

Fire

Public Services • Engineering Division

APPROVED STORMWATER MANAGEMENT PLAN

Approved Construction Plan

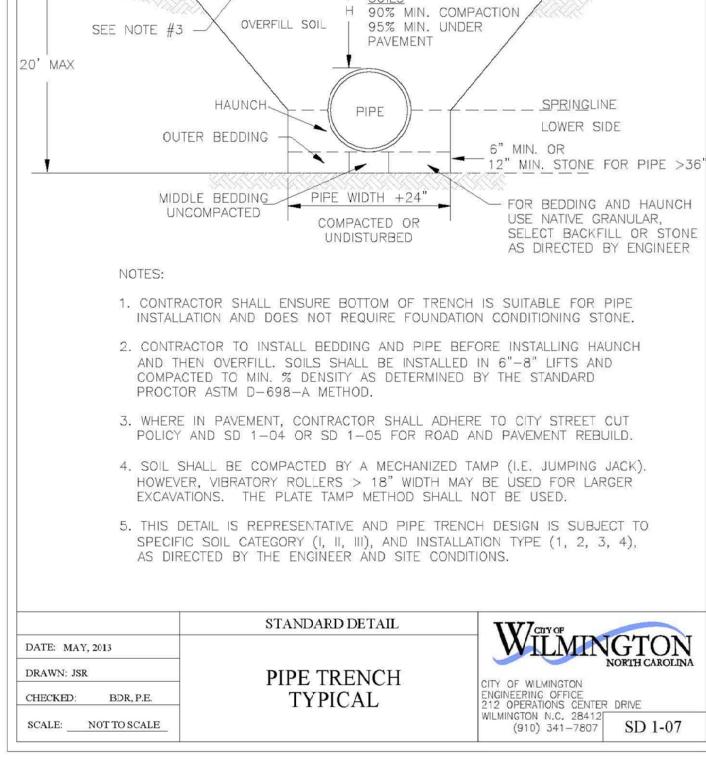


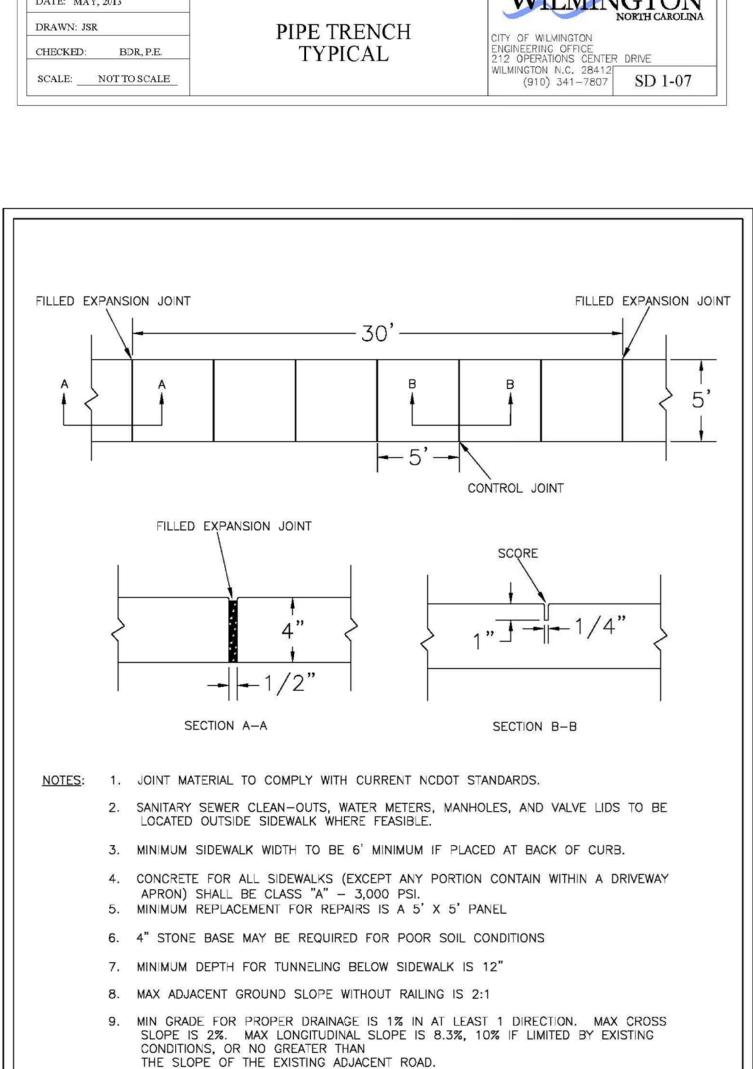
- 2. FILL SHALL BE SUITABLE MATERIAL THAT IS FREE FROM HEAVY CLAY, GUMBOS, DEBRIS, ORGANICS AND LITTLE TO NO EXCESSIVE MOISTURE.
- 3. SELECT BACKFILL MAY BE SUBSTITUTED OR REQUIRED BY CITY TO ACHIEVE COMPACTION, (I.E. #57, ABC, CRUSHED LIMESTONE, CLEAN SAND, FLOWABLE FILL, ETC).
- 4. SOIL SHALL BE INSTALLED IN 6"-8" LIFTS AND COMPACTED BY A MECHANIZED TAMPER (I.E JUMPING JACK), HOWEVER, VIBRATORY ROLLERS > 18" WIDTH MAY BE USED FOR LARGER EXCAVATIONS. THE PLATE TAMP METHOD SHALL NOT BE USED.
- 5. ALL APPROVED CASTINGS SHALL BE SET FLUSH TO GRADE AND SUPPORTED IF APPLICABLE.
- 6. COMPACT MATERIALS TO MINIMUM % DENSITY SHOWN IN DIAGRAM AS DETERMINED BY THE STANDARD PROCTOR METHOD ASTM D-698-A FOR SOILS; AND ASTM D-698-C FOR ABC STONE; AND BY NUCLEAR GAUGE OR CORE SAMPLE FOR ASPHALT.
- 7. CUTBACKS OF ASPHALT SHALL BE PREPARED ON EDGE OF EXCAVATION OVER TOP OF UNDISTURBED SOIL.

ENGINEERING OFFICE 212 OPERATIONS CENTER DRIVE WILMINGTON N.C. 28412

(910) 341-7807 SD 1-05

	STANDARD DETAIL
DATE: MAY, 2013	DAMENT DEDAIDS
DRAWN BY JSR	PAVEMENT REPAIRS- UTILITY CUTS
CHECKED BY D.E.C., P.E.	UTILITY CUTS
SCALE NOT TO SCALE	





STANDARD DETAIL

SIDEWALK

DATE: OCTOBER, 2010

SCALE NOT TO SCALE

DRAWN: PB/JSR

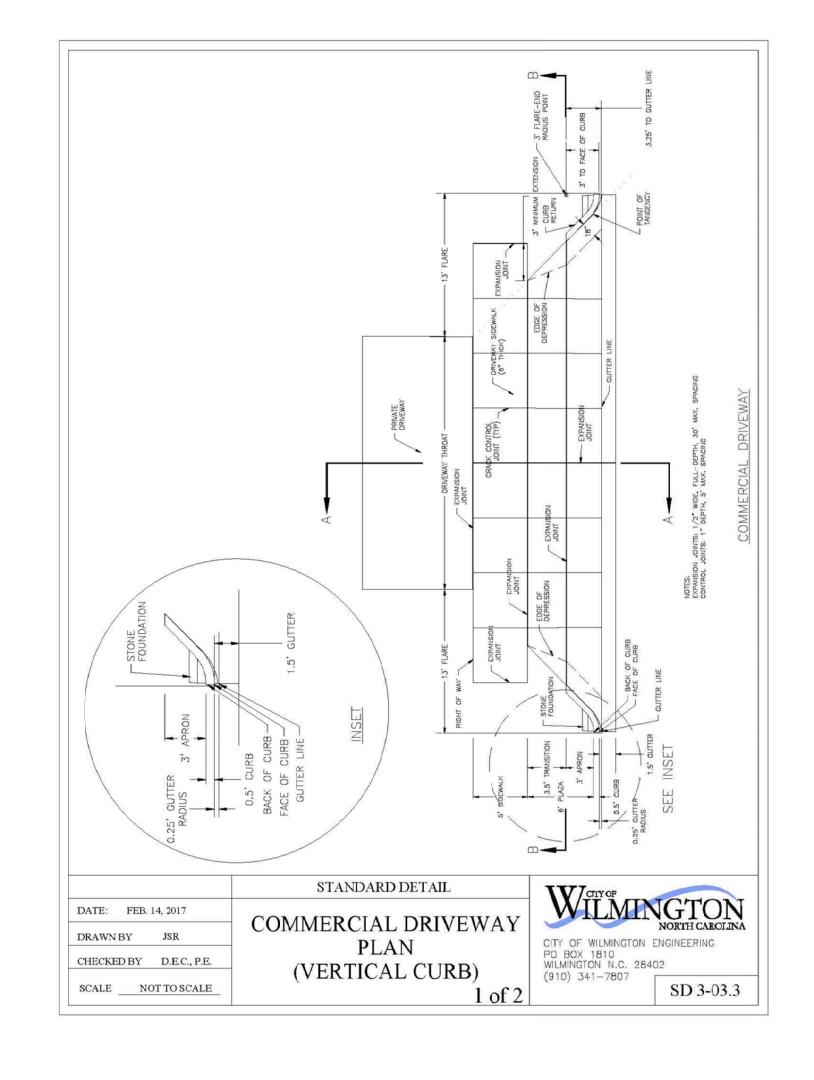
WILMINGTON

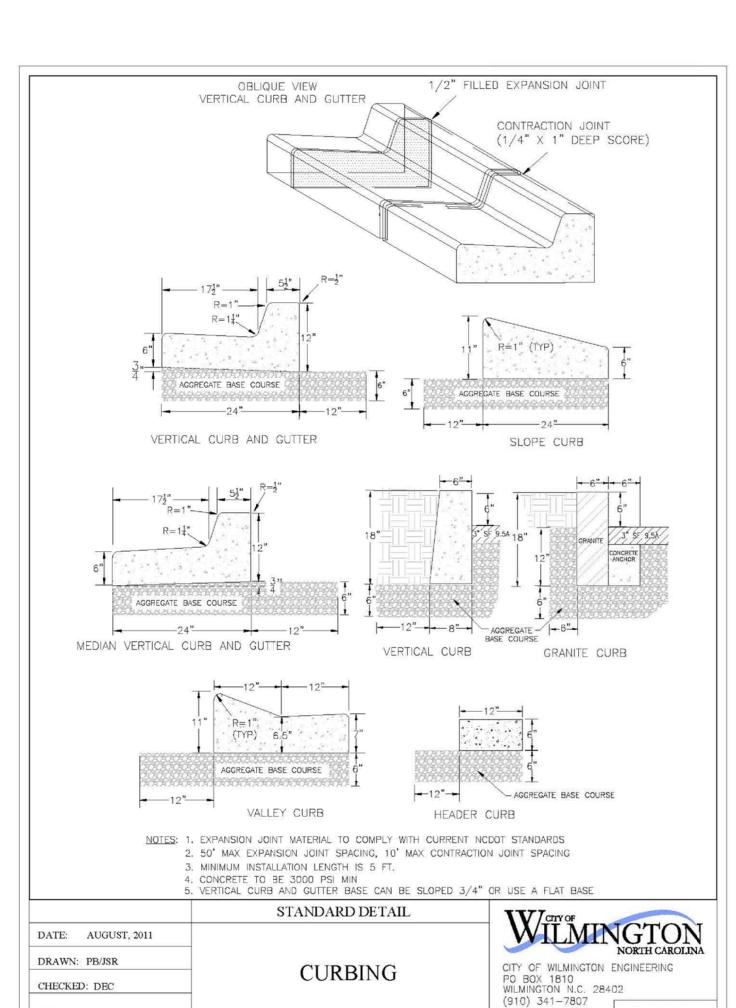
SD 3-10

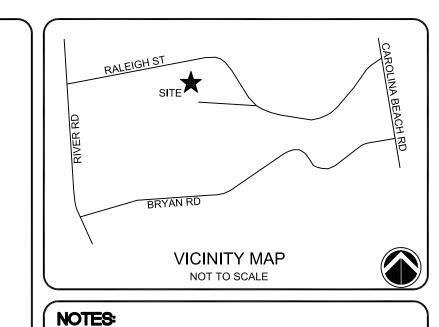
CITY OF WILMINGTON ENGINEERING

PO BOX 1810 WILMINGTON N.C. 28402

(910) 341-7807

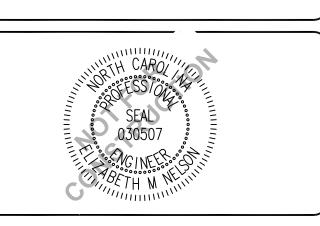






ISSUED FOR **REGULATORY REVIEW**

REVISED PER CITY OF WILMINGTON COMMENTS EMN ISSUED FOR REGULATORY REVIEW ISSUED FOR REGULATORY REVIEW 02/21/17 REV.BY DESCRIPTION DATE REVISIONS





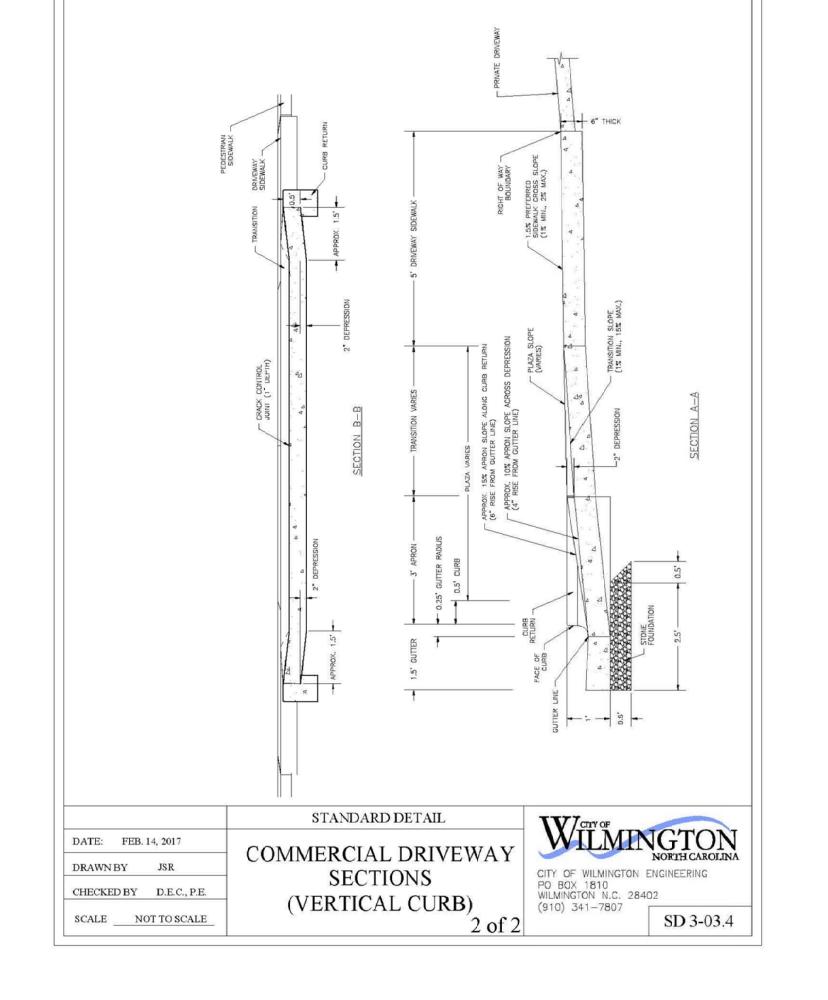
151 Poole Rd., Suite 100; Belville, NC, 2845 TEL (910) 383-1044; FAX (910) 383-1045 www.capefearengineering.com N.C. LICENSE # C-1621

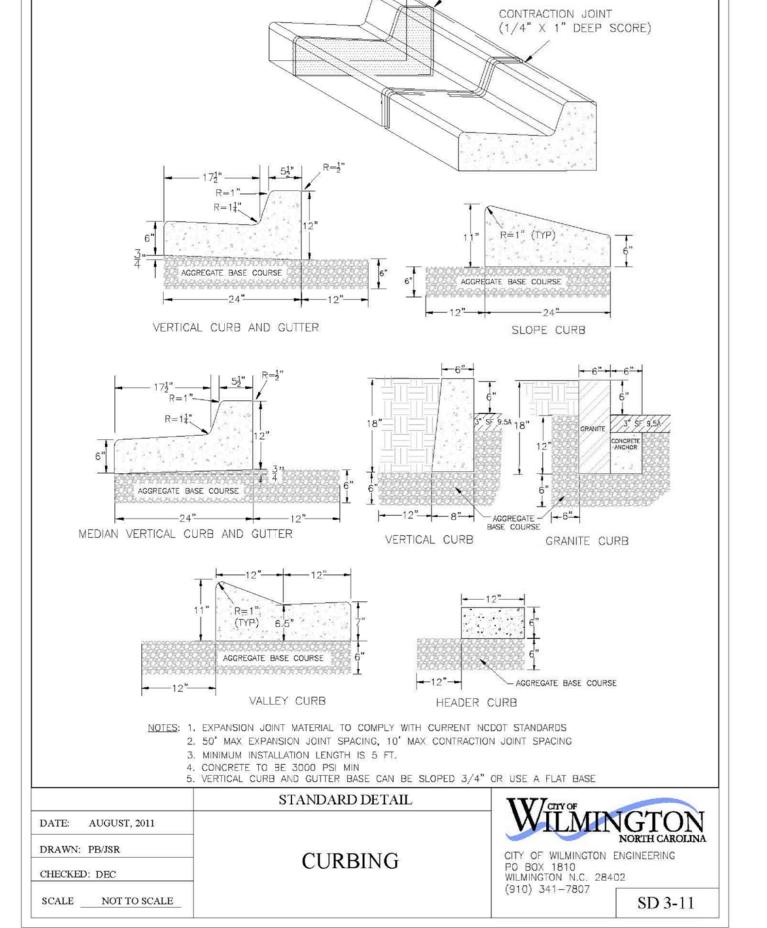
PROJECT NUMBER: SCALE: As Shown DATE: 21 FEB 17

> CIVIL WORKS CONTRACTING 190 RALEIGH STREET WILMINGTON, NC

> > SITE DETAILS

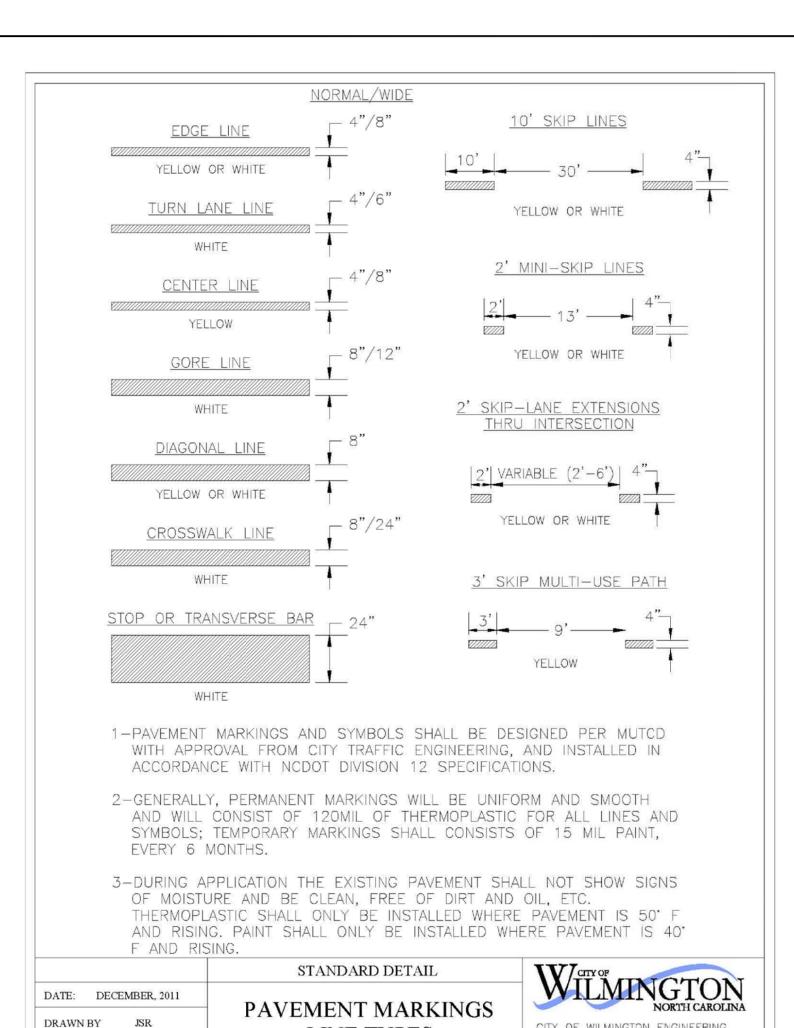
275-77 D-501





APPROVED STORMWATER MANAGEMENT PLAN Approved Construction Plan

Public Services • Engineering Division



LINE TYPES

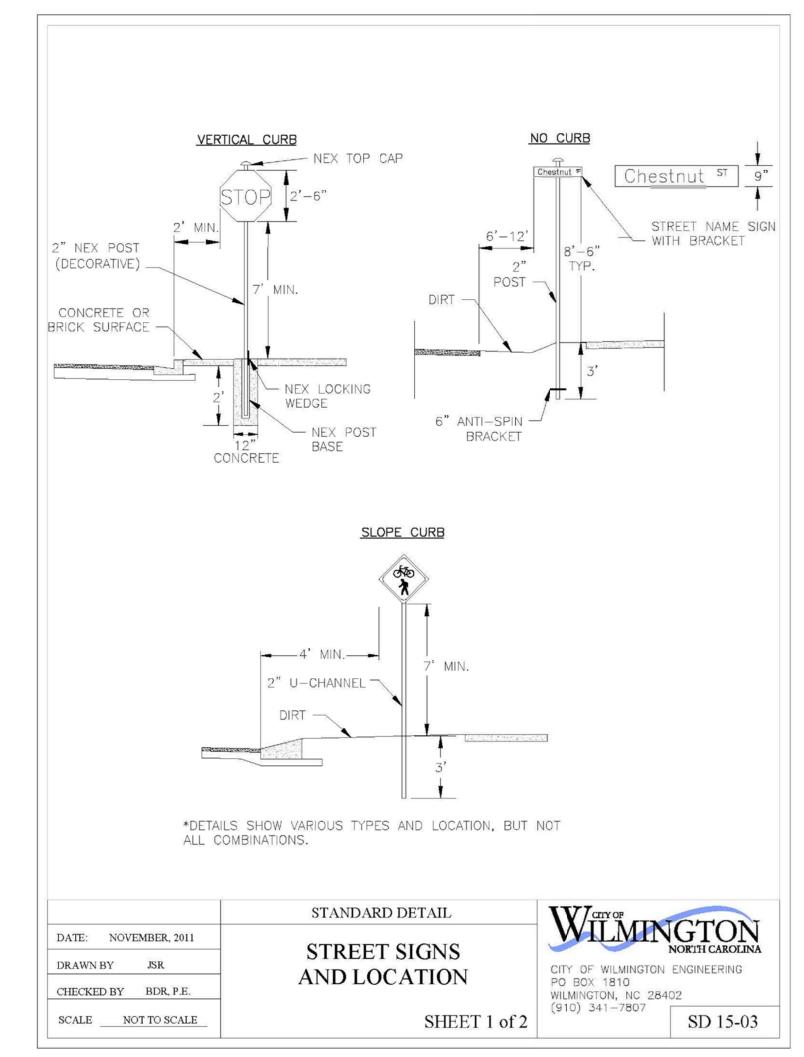
CHECKED BY BDR, P.E.

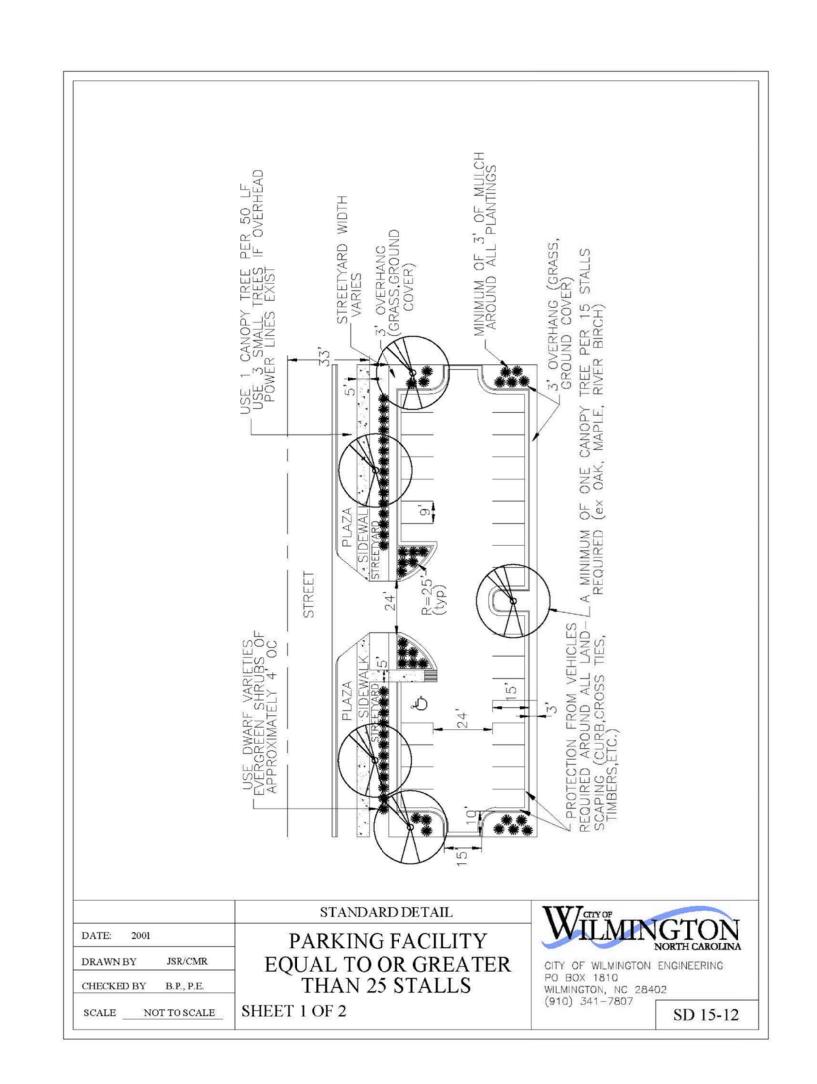
SCALE NOT TO SCALE

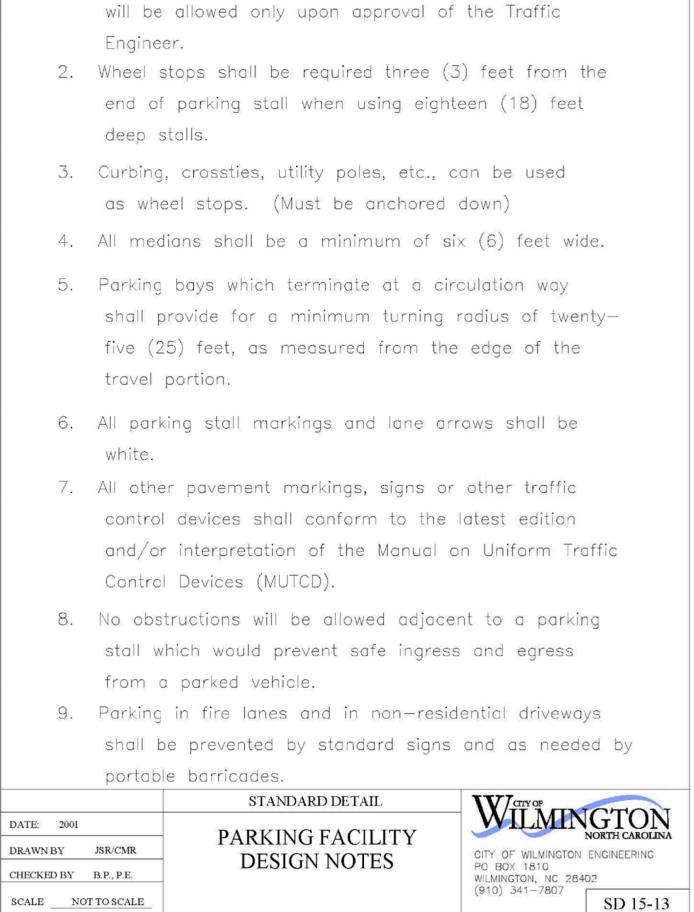
CITY OF WILMINGTON ENGINEERING

SD 11-01

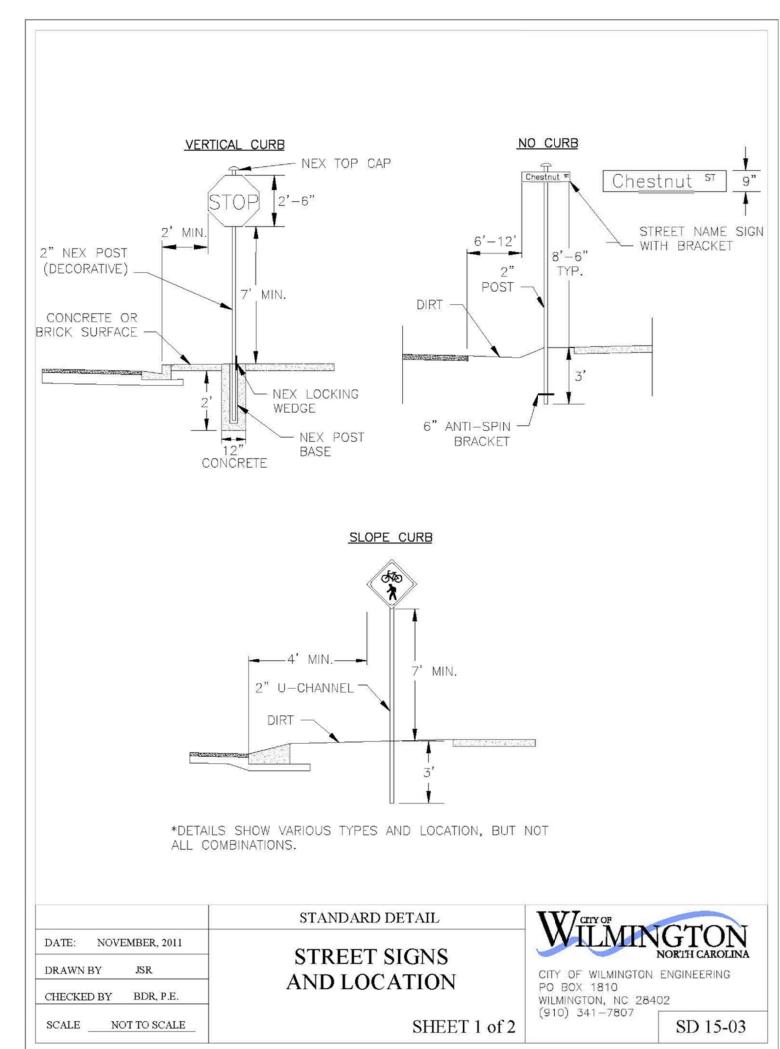
WILMINGTON, NC 28402 (910) 341-7807

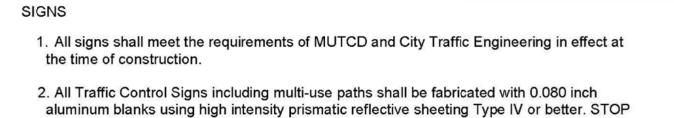






1. Variances on stall widths, angle and other dimensions





signs shall be a minimum of 30"x30". 3. SPECIAL DESIGNATION signs by location and type shall adhere to City of Wilmington signage plan (ie. downtown, historic, cross-city trail, parks, riverfront, scenic by-way, parking,

4. POST MOUNTED STREET NAME SIGNS shall be fabricated with 9" extruded aluminum street name sign blanks using a standard cut-out. Minimum sign length is 18" long and increasing in 6" increments to 54" maximum as dictated by the number of letters in the name. The color scheme shall be white letters on a green background without a border. Generally, in the downtown and historic areas or as designated in the City of Wilmington signage plan the background shall be blue and contain a topper.

5. Decorative sign posts shall consist of the NEX sign support system, 2" octagonal tube, 14 gauge, powder coated glossy black and include cap, post, base and wedge.

6. All other sign posts shall be u-channel posts made of galvanized steel with 8' posts 2lbs/ft or 12' posts 3lbs/ft. Galvanized NEX post may be substituted with approval from the City Signs and Markings Engineer.

7. OVERHEAD STREET NAME SIGNS shall be fabricated with 0.080 inch aluminum flat sign blanks 18" in height using a standard cut-out. Sign length will be dictated by the number of letters in the name. For mast-arm type traffic signal supports and other overhead support systems refer to the design plans for maximum sign length.

8. All sign lettering, colors and fonts shall adhere to the MUTCD in effect at the time of construction. Florescent Yellow-Green shall be used on signs, in place of Yellow, when listed as an optional color in the MUTCD. Generally, the font will be FHWA series fonts (Highway Gothic.) Other font types require prior City Signs and Markings Engineer approval.

LOCATION

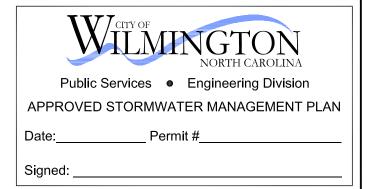
etc.) and all associated policies.

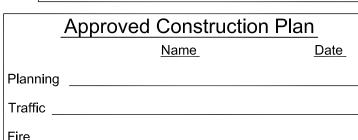
9. Sign locations depend on the edge of road condition. Generally, signs shall be a minimum 2' from face of a vertical curb, 4' from front of slope face curb, and 6' from edge of pavement without curb. Signs shall not be located more than 12' from any of these locations.

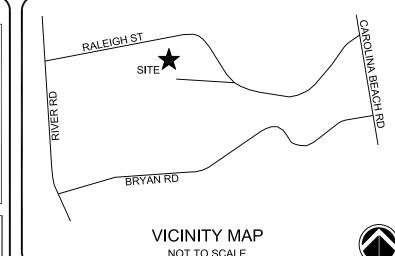
10. Sign posts installed in dirt shall be buried a minimum of 36". Octagonal posts shall utilize an anti-spin device, 6" in length minimum. Sign posts installed in concrete or brick shall utilize a base cast in concrete 24" x 12" diameter.

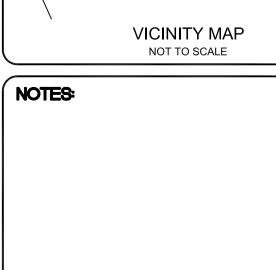
11. Street name signs shall be installed 8'-6" from the ground to the bottom of the sign. Street name signs co-located with STOP signs shall be installed above the STOP sign. A 6" space shall be maintained between the STOP sign and a Street name sign that is parallel to the STOP sign face. All other signs should be mounted per MUTCD guidelines for Urban Areas.

	STANDARD DETAIL	W CITY OF
DATE: NOVEMBER, 2011	STREET SIGNS	WILMINGTON
DRAWN BY JSR	AND LOCATION	CITY OF WILMINGTON ENGINEERING
CHECKED BY BDR, P.E.	THE ECCTION	PO BOX 1810 WILMINGTON, NC 28402
SCALE NOT TO SCALE	SHEET 2 of 2	(910) 341–7807 SD 15-03





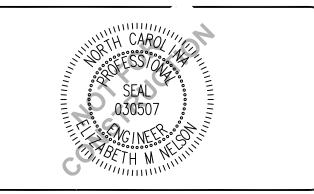




ISSUED FOR REGULATORY REVIEW

D	REVISED PER CITY OF WILMINGTON	EMN
ט	COMMENTS	10/12/17
С	REVISED PER CITY OF WILMINGTON	EMN
C	COMMENTS	09/27/17
В	ISSUED FOR REGULATORY REVIEW	EMN
В	ISSUED FOR REGULATORY REVIEW	06/30/17
Λ	ISSUED FOR REGULATORY REVIEW	EMN
Α	ISSUED FOR REGULATORY REVIEW	02/21/17
REV.	DESCRIPTION	REV.BY
#	DESCRIPTION	DATE
	REVISIONS	
~40		







151 Poole Rd., Suite 100: Belville, NC, 2845 TEL (910) 383-1044; FAX (910) 383-1045 www.capefearengineering.com N.C. LICENSE # C-1621

	PROJECT NUMBER :	275-77
	SCALE:	As Shown
	DATE:	21 FEB 17
- TWO 24" LG. #4 REBARS DRIVEN INTO PAVEMENT TO		
DRIVEN INTO PAVEMENT TO I		

ANCHOR WHEELSTOPS

NOTE: WHEELSTOPS MAY

VARY IN NON-ESSENTIAL

DIMENSIONS OR DETAILS

3,000 PSI

CONCRETE WHEEL STOP

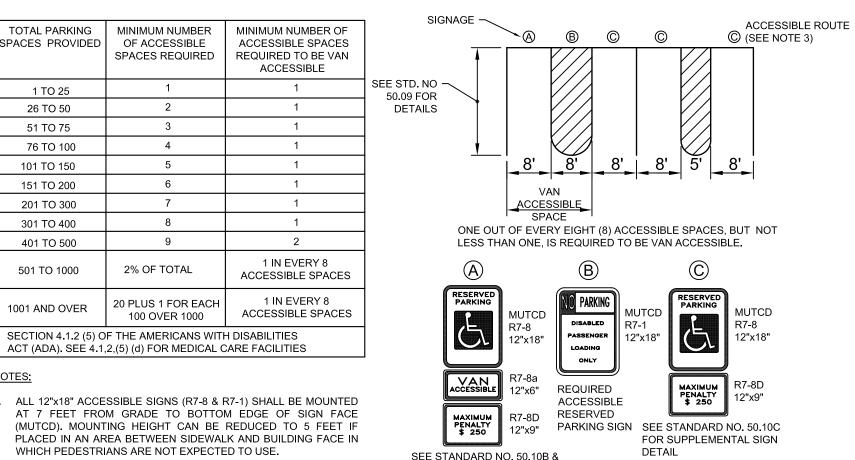
NOT TO SCALE

CONCRETE

CIVIL WORKS CONTRACTING 190 RALEIGH STREET WILMINGTON, NC

SITE DETAILS

D-502 275-77



50.10C FOR SUPPLEMENTAL

1. ALL 12"x18" ACCESSIBLE SIGNS (R7-8 & R7-1) SHALL BE MOUNTED

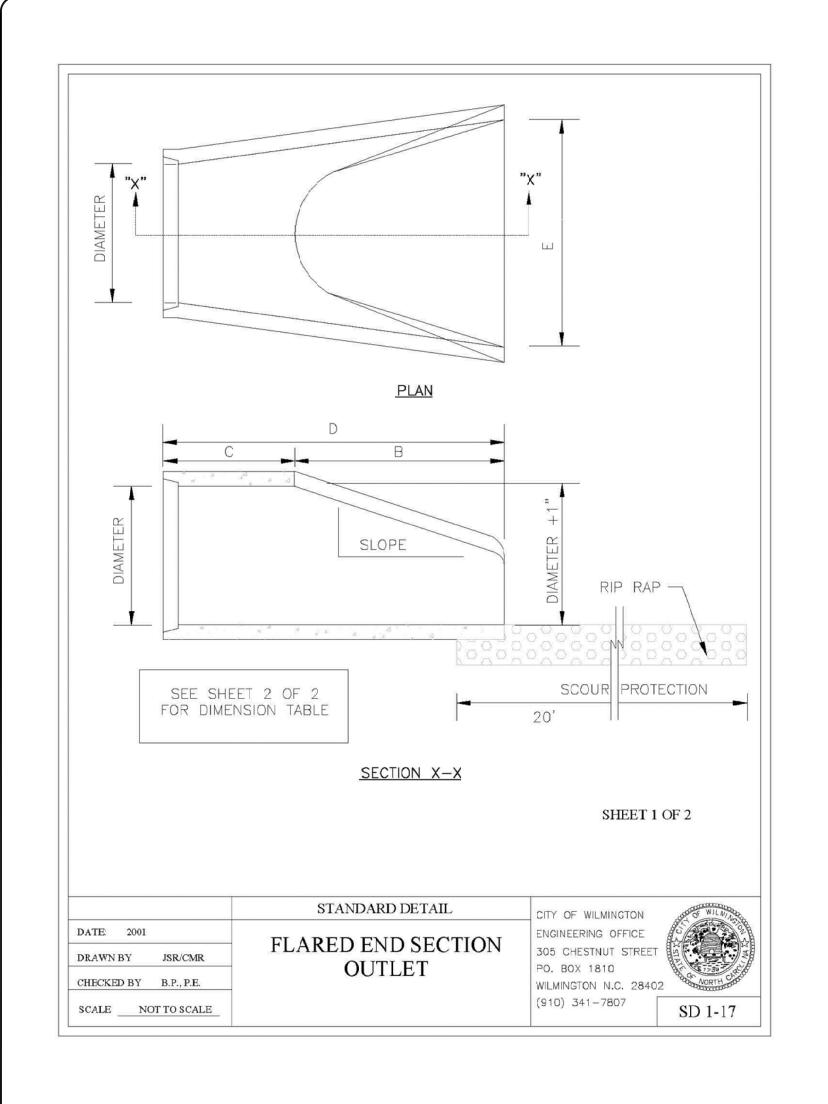
2. REFER TO MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, (MUTCD) U.S. DEPARTMENT OF TRANSPORTATION AND NORTH CAROLINA DEPARTMENT OF TRANSPORTATION SUPPLEMENT.

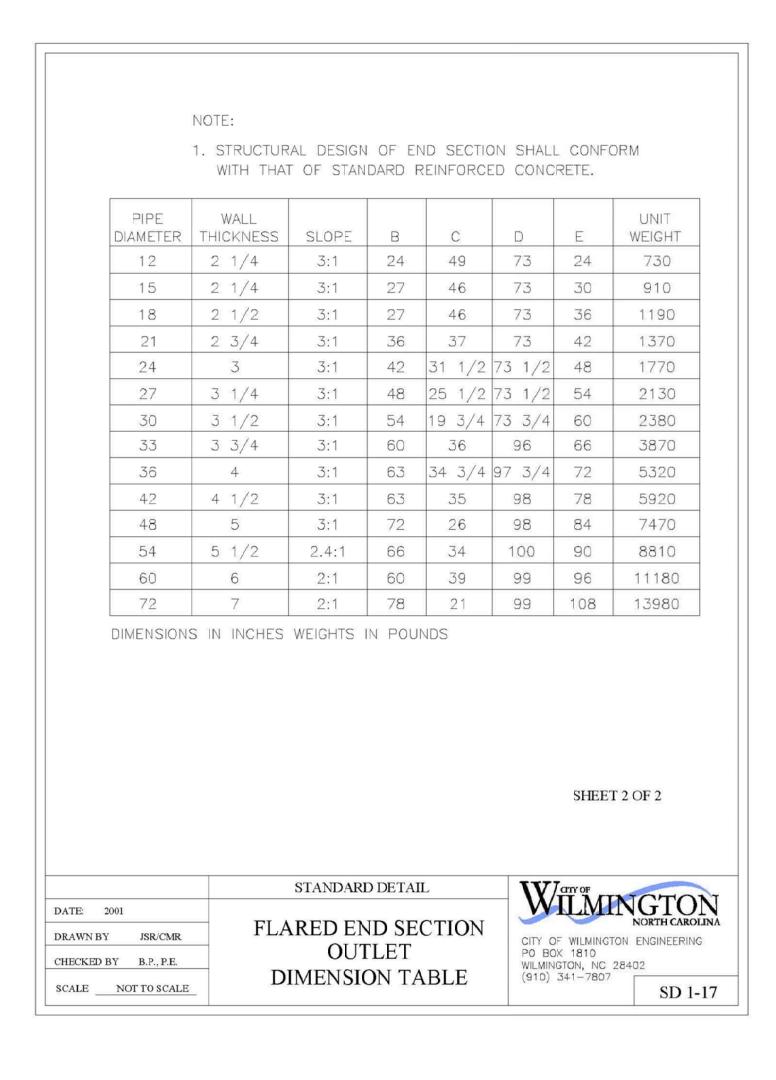
3. IF ACCESSIBLE ROUTE IS A RAISED SIDEWALK AREA, THEN RAMPS ARE REQUIRED AT LOADING ZONE AREA.

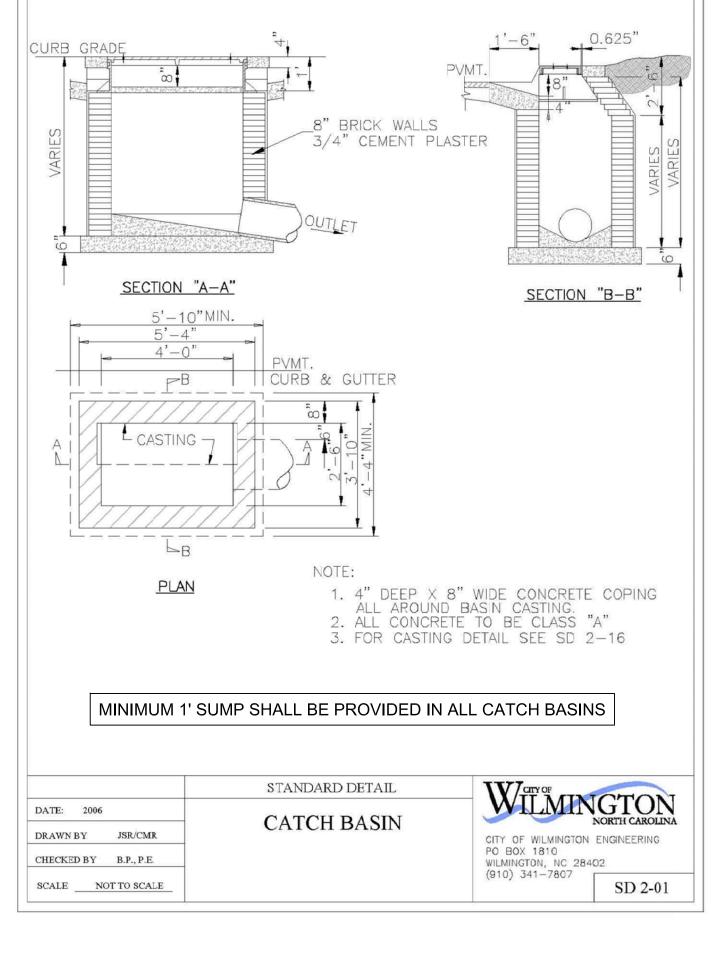
ACCESSIBLE PARKING/ SIGNING REQUIREMENTS NOT TO SCALE

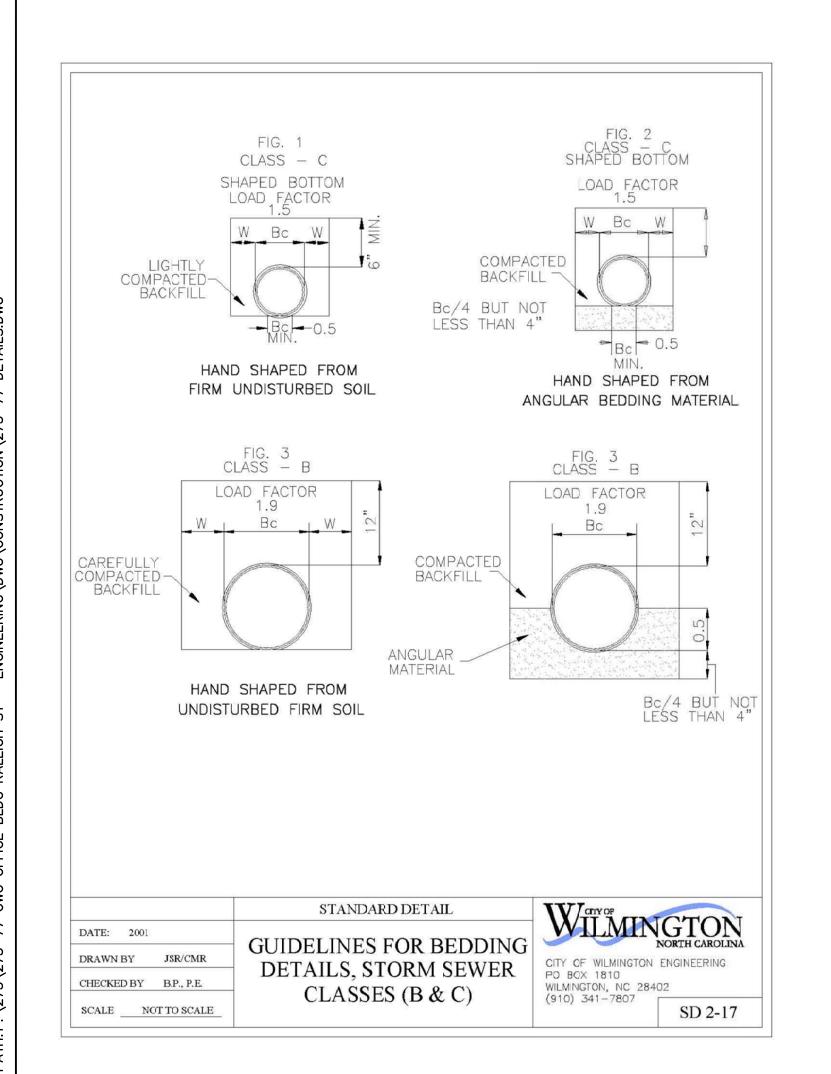
1" SF 9.5A 2.5" TYPE I-19.0B ASPHALT - 6" ABC STONE TOP 12" OF SUBGRADE TO BE COMPACTED TO 95% DRY DENSITY,

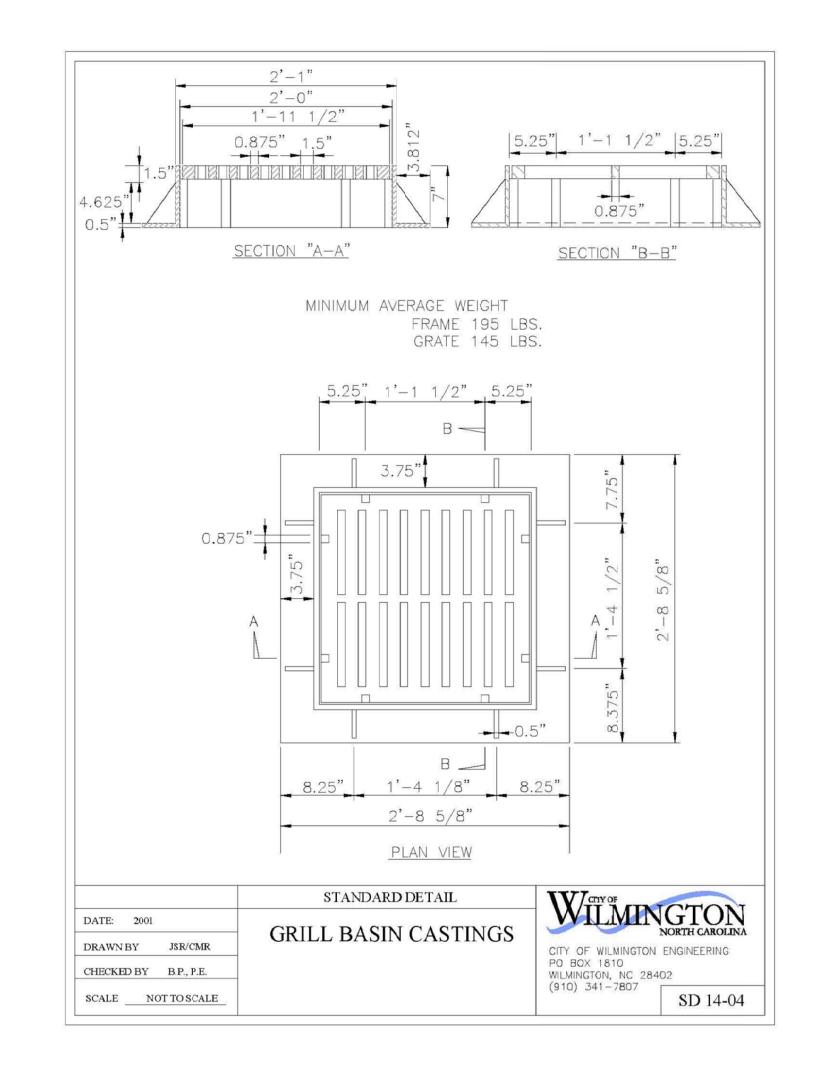
STANDARD PROCTOR ASPHALT PAVEMENT DETAIL NOT TO SCALE

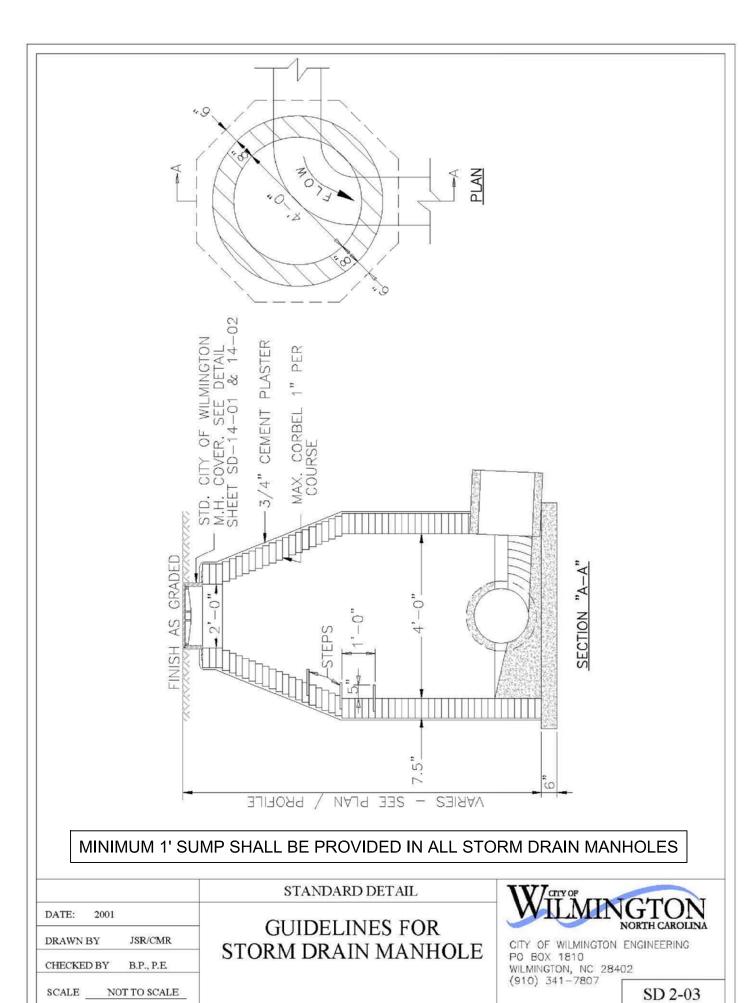


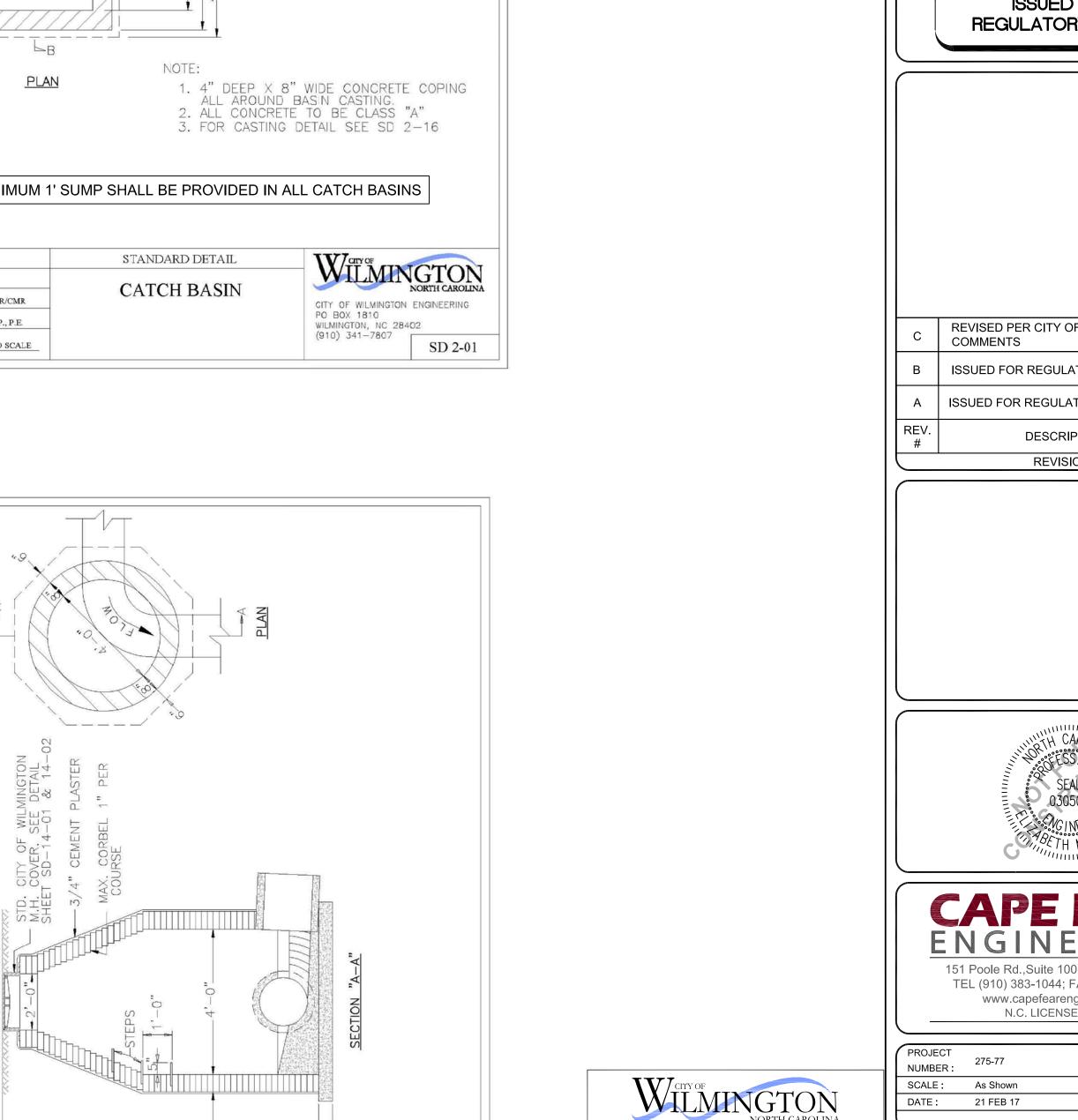


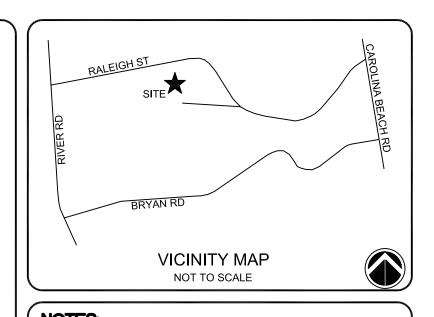








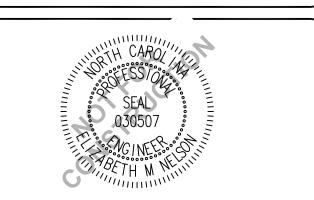




NOTES:

ISSUED FOR **REGULATORY REVIEW**

REVISED PER CITY OF WILMINGTON | EMN EMN ISSUED FOR REGULATORY REVIEW ISSUED FOR REGULATORY REVIEW 02/21/17 REV.BY DESCRIPTION DATE REVISIONS





TEL (910) 383-1044; FAX (910) 383-1045 www.capefearengineering.com N.C. LICENSE # C-1621

Public Services • Engineering Division

APPROVED STORMWATER MANAGEMENT PLAN

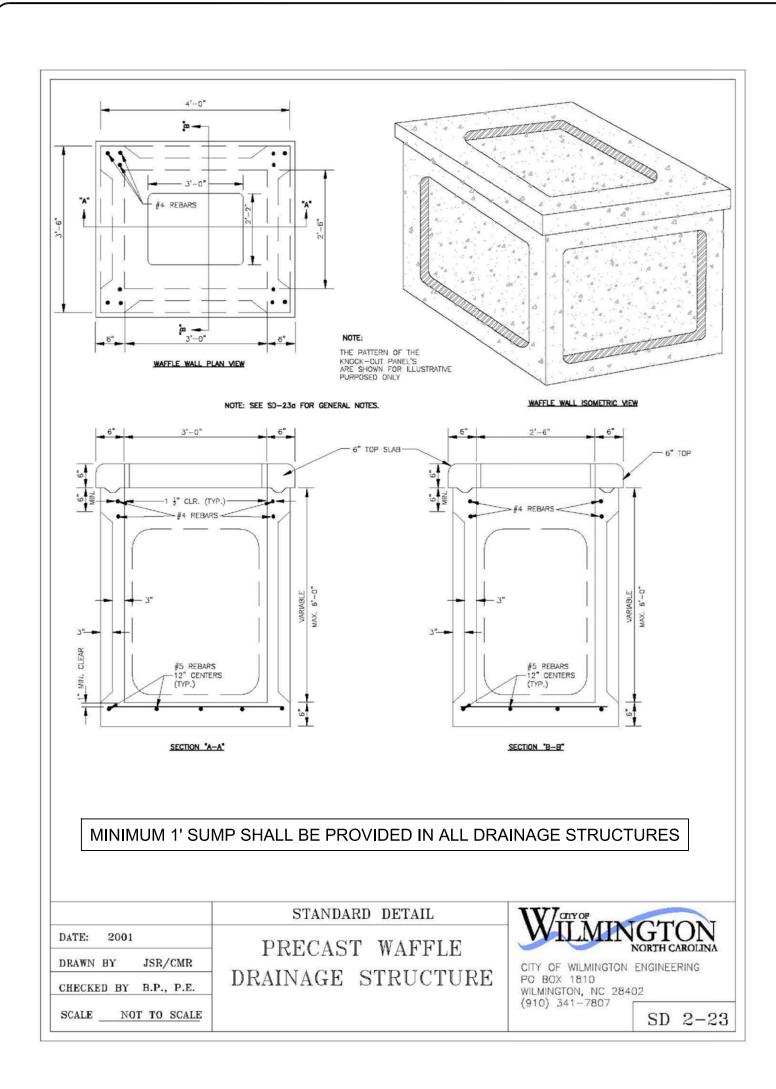
Approved Construction Plan

CIVIL WORKS CONTRACTING 190 RALEIGH STREET WILMINGTON, NC

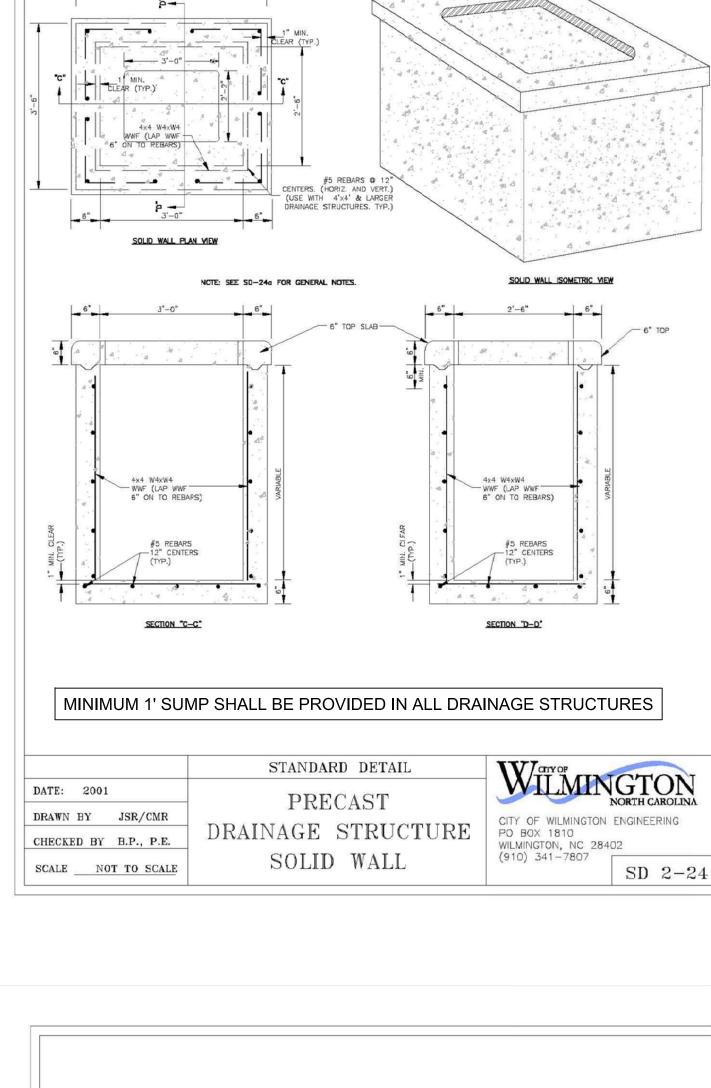
STORMWATER DETAILS

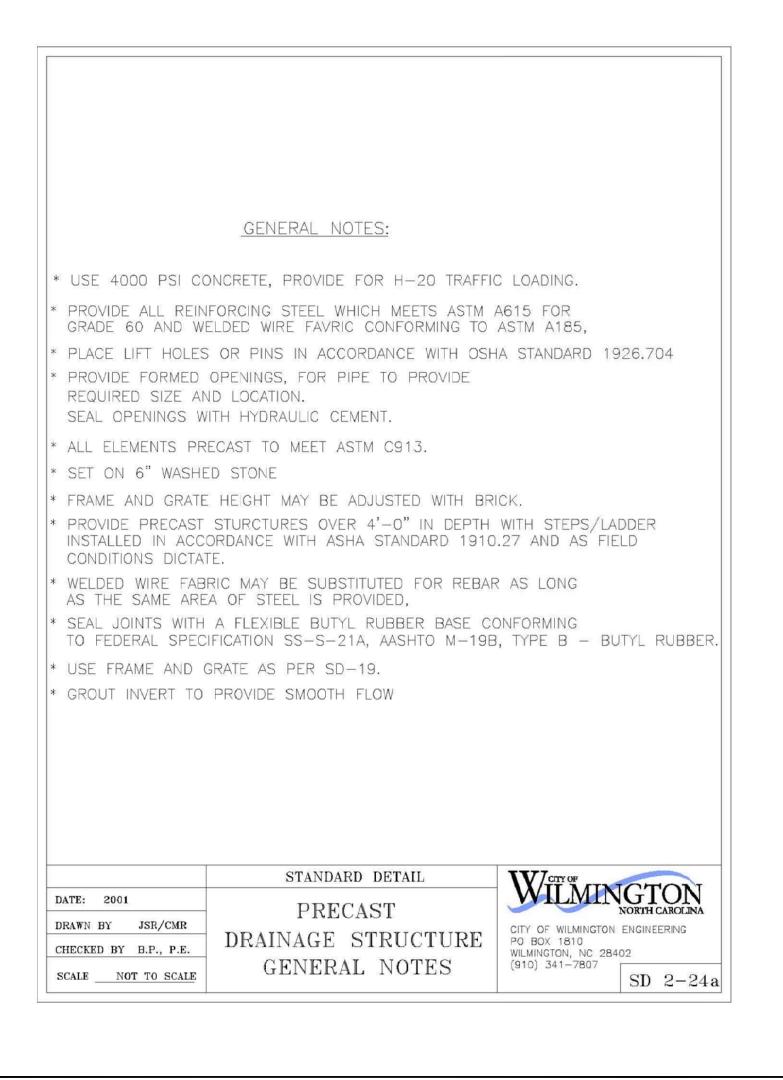
SHEET NUMBER PROJECT NUMBER

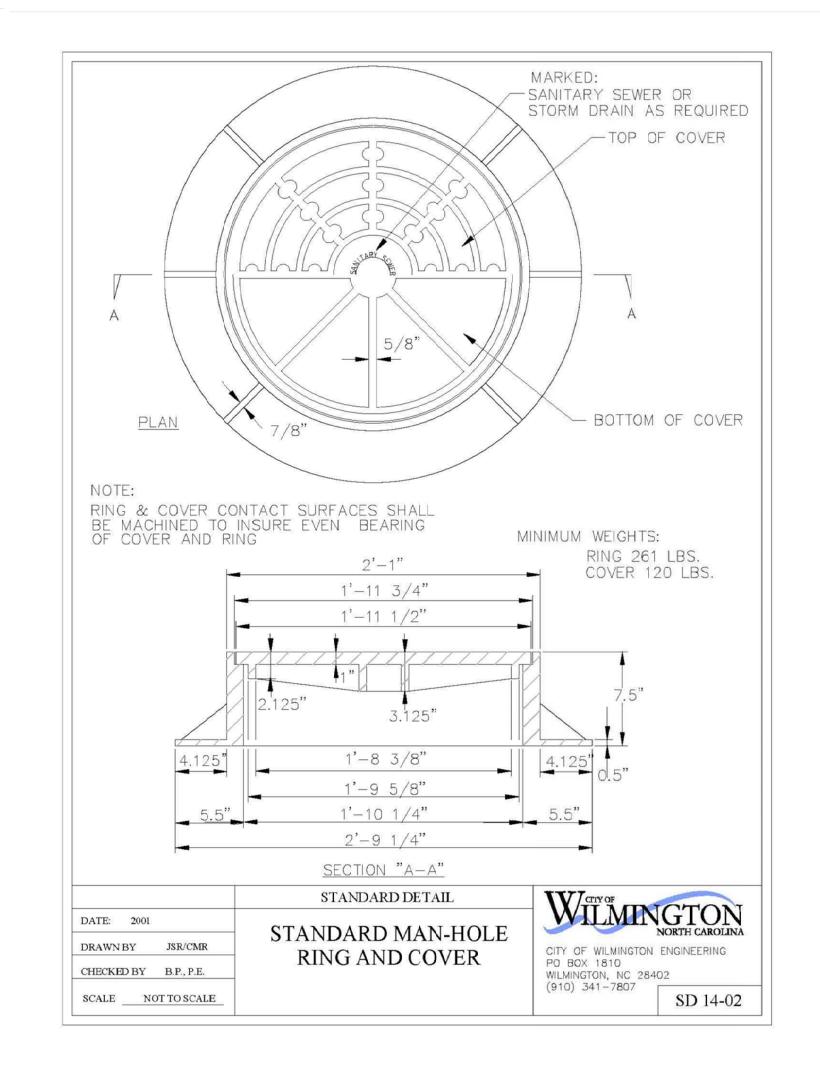
275-77 D-503

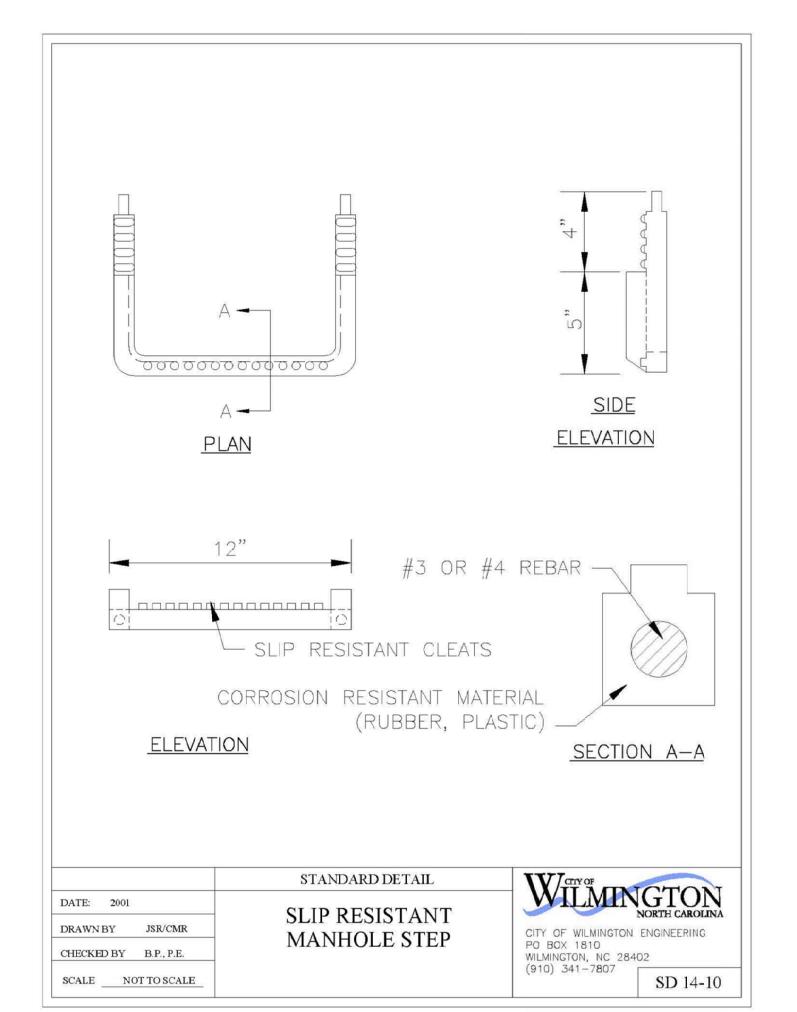


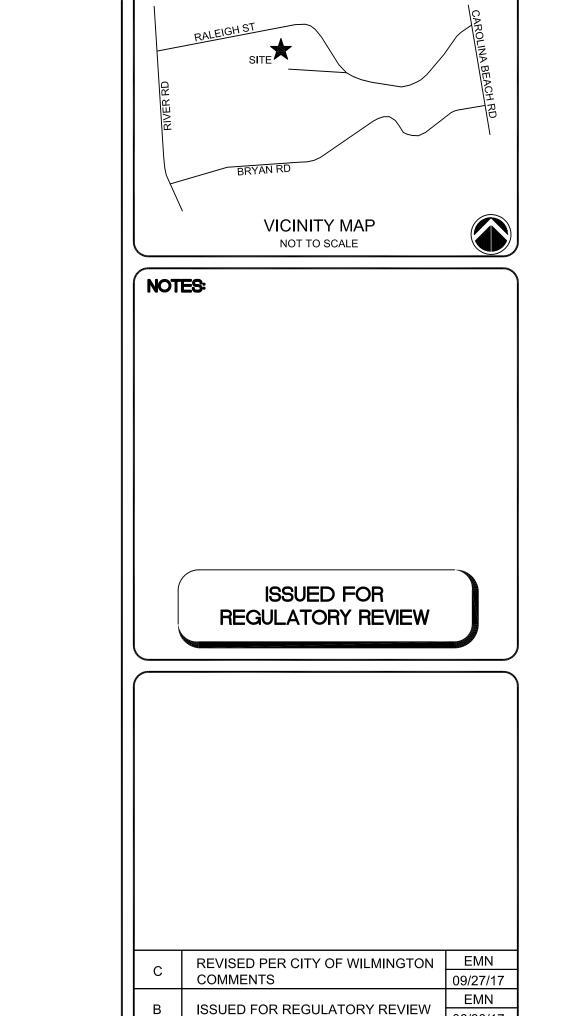
















ISSUED FOR REGULATORY REVIEW

DESCRIPTION

REVISIONS

REV.

02/21/17 REV.BY

DATE

www.capefearengineering.com N.C. LICENSE # C-1621

PROJECT NUMBER: SCALE: As Shown DATE: 21 FEB 17 Public Services • Engineering Division

APPROVED STORMWATER MANAGEMENT PLAN

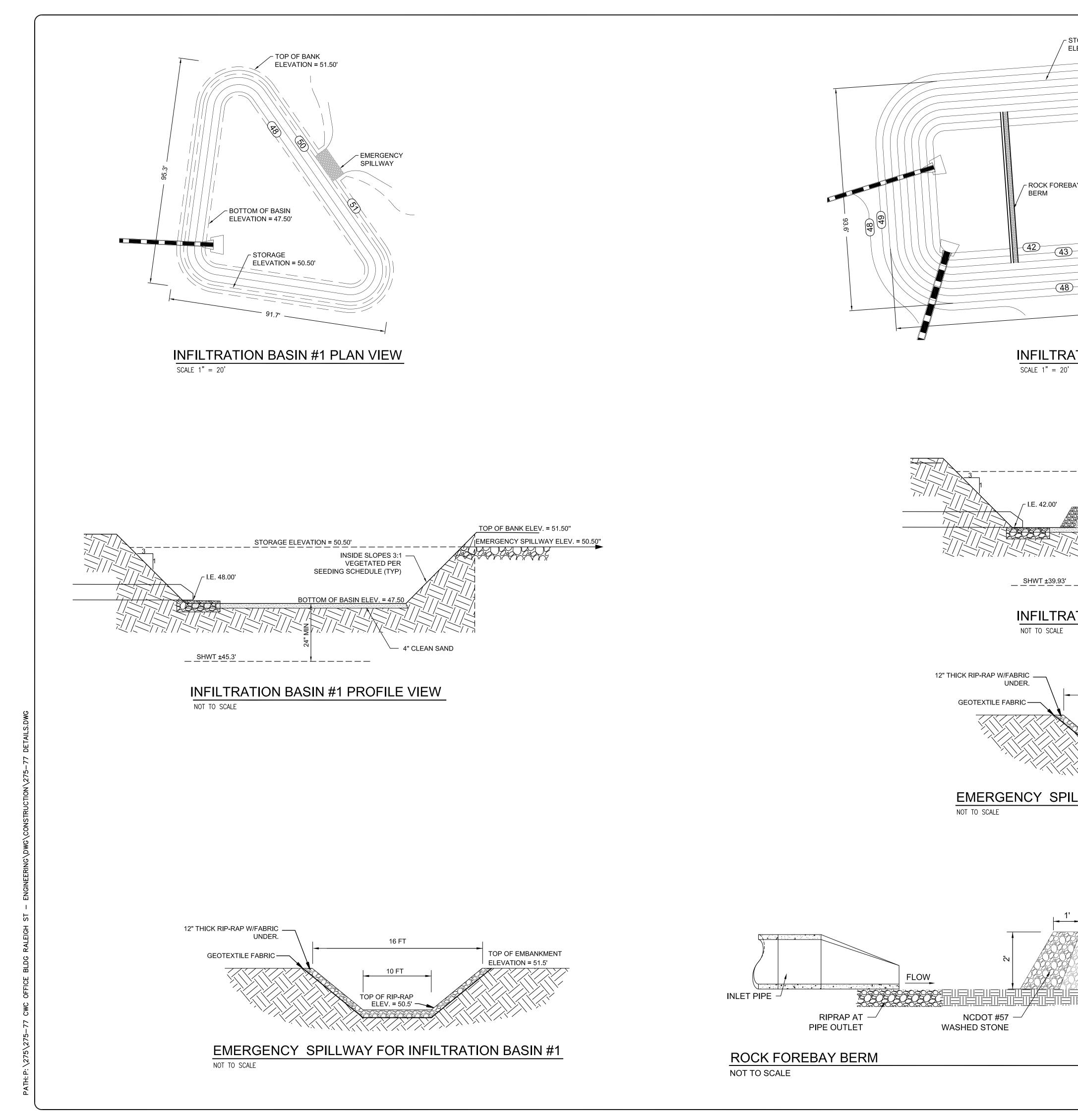
Approved Construction Plan

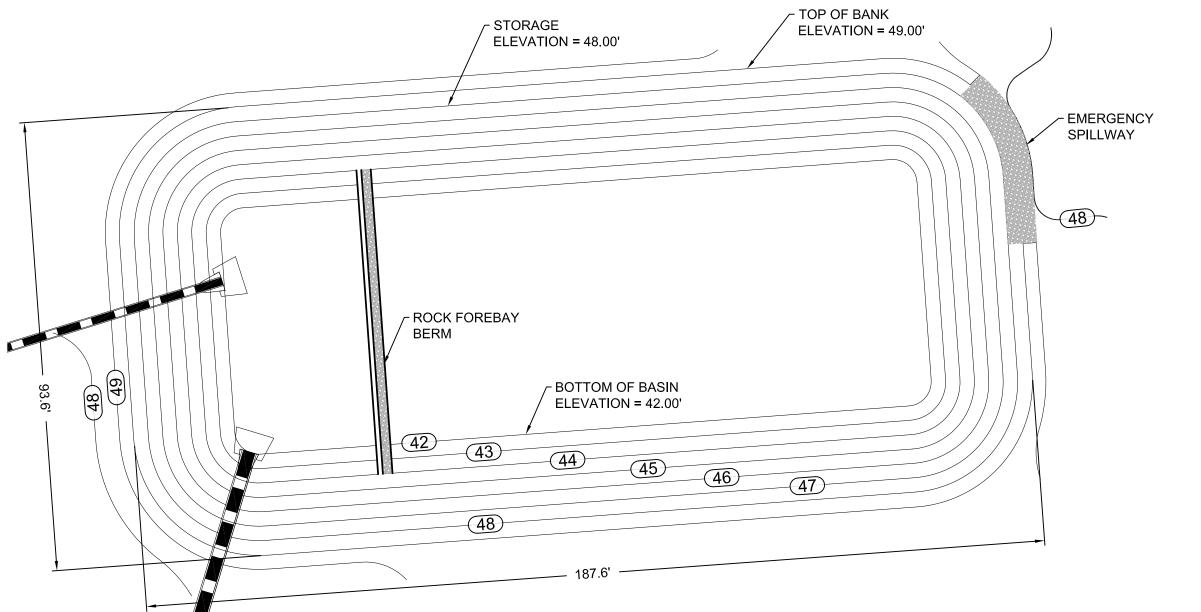
CIVIL WORKS CONTRACTING 190 RALEIGH STREET WILMINGTON, NC

STORMWATER DETAILS

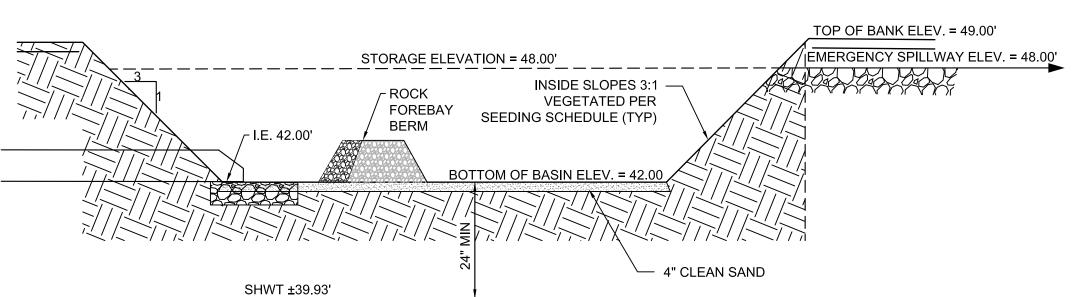
PROJECT NUMBER 275-77

SHEET NUMBER D-504

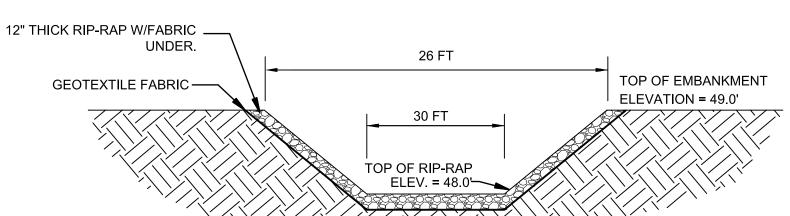




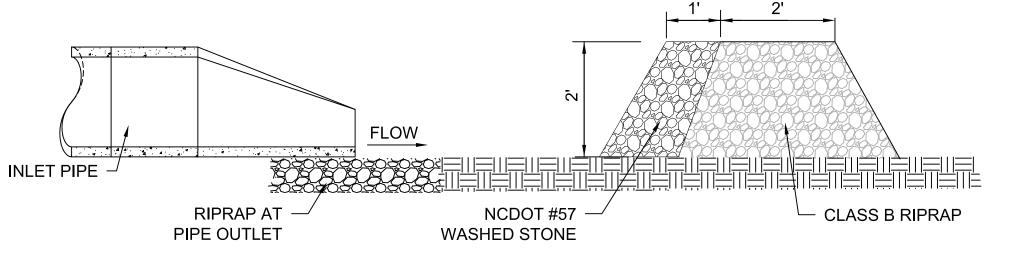
INFILTRATION BASIN #2 PLAN VIEW

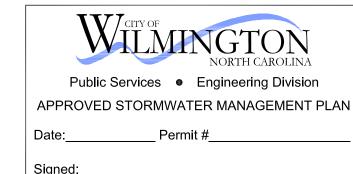


INFILTRATION BASIN #2 PROFILE VIEW

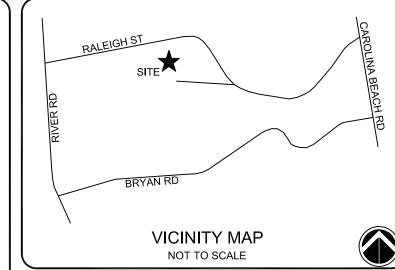


EMERGENCY SPILLWAY FOR INFILTRATION BASIN #2



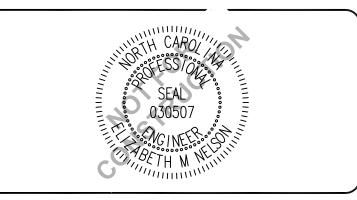


Apr	proved Construction	n Plan
	<u>Name</u>	<u>Date</u>
Planning		
Traffic		



NOTES: ISSUED FOR REGULATORY REVIEW

С	REVISED PER CITY OF WILMINGTON	EMN
	COMMENTS	09/27/17
l _B	ISSUED FOR REGULATORY REVIEW	EMN
	1550ED FOR REGULATORY REVIEW	06/30/17
_	ISSUED FOR REGULATORY REVIEW	EMN
A	1550ED FOR REGULATORY REVIEW	02/21/17
REV.	DESCRIPTION	REV.BY
#	DESCRIPTION	DATE
	REVISIONS	
	-	





PROJECT NUMBER:	275-77
SCALE:	As Shown
DATE:	21 FEB 17

CIVIL WORKS CONTRACTING 190 RALEIGH STREET WILMINGTON, NC

STORMWATER DETAILS

SHEET NUMBER 275-77 D-505

SEQUENCE OF FINAL LAND DISTURBANCE

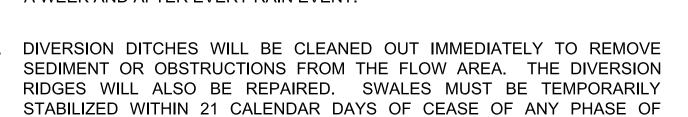
- 1. PRECONSTRUCTION CONFERENCE TO BE HELD PRIOR TO BEGINNING.
- 2. DETERMINE AND MARK LIMITS OF DISTURBANCE. LIMITS OF DISTURBANCE ARE 11.6 ACRES.
- 3. INSTALL TEMPORARY GRAVEL CONSTRUCTION ENTRANCE, SILT FENCE AND SILT FENCE OUTLETS.
- 4. INSTALL INFILTRATION BASINS AND OUTLET WEIRS. INSTALL STORMWATER COLLECTION SYSTEM AND INLET PROTECTION. INSTALL RIP RAP ENERGY DISSIPATION WITH ALL FLARED END SECTIONS.
- 5. TOPSOIL REMOVAL AND/OR STORAGE.
- 6. INSPECT AND MAINTAIN ALL EROSION CONTROL DEVICES EVERY 7 DAYS AND AFTER EACH SIGNIFICANT RAINFALL EVENT (0.5" OR GREATER).
- 7. PLACE TEMPORARY SEEDING ON ALL PERIMETER SWALES AND ALL AREAS WITH SLOPES GREATER THAN 3:1 THAT ARE TO BE LEFT IDLE FOR MORE THAN 7 DAYS. PLACE TEMPORARY SEEDING ON ALL OTHER DISTURBED AREAS THAT ARE TO BE LEFT IDLE FOR MORE THAN 14 DAYS.
- 8. PERMANENT GRASS SHALL BE INSTALLED FOR ALL AREAS AT FINAL GRADE AND IN SEASON. FERTIZLIZE, WATER AND RESEED AS REQUIRED TO ESTABLISH A VIGOROUS STAND OF COVER.
- 9. UPON STABILIZATION OF SITE. CLEAN OUT ALL SEDIMENT FROM INFILTRATION BASINS AND RESTORE TO DESIGN GRADES.

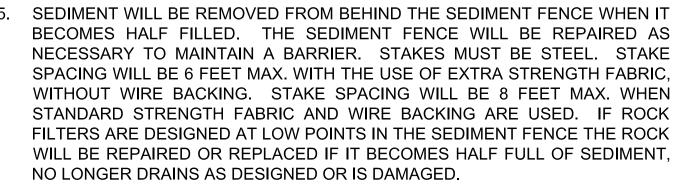
MAINTENANCE PLAN FOR EROSION CONTROL MEASURES (NEW HANOVER COUNTY)

- 1. ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE CHECKED FOR STABILITY AND OPERATION FOLLOWING EVERY RUNOFF-PRODUCING RAINFALL, BUT IN NO CASE, LESS THAN ONCE EVERY WEEK AND WITHIN 24 HOURS OF EVERY HALF INCH RAINFALL.
- 2. ALL POINTS OF EGRESS WILL HAVE CONSTRUCTION ENTRANCES THAT WILL BE PERIODICALLY TOP-DRESSED WITH AN ADDITIONAL 2 INCHES OF #4 STONE TO MAINTAIN PROPER DEPTH. THEY WILL BE MAINTAINED IN A CONDITION TO PREVENT MUD OR SEDIMENT FROM LEAVING THE SITE. IMMEDIATELY REMOVE OBJECTIONABLE MATERIAL SPILLED WASHED OR TRACKED ONTO THE CONSTRUCTION ENTRANCE OR ROADWAYS.
- 3. SEDIMENT WILL BE REMOVED FROM HARDWARE CLOTH AND GRAVEL INLET

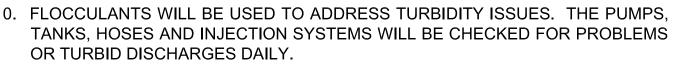
PROTECTION. BLOCK AND GRAVEL INLET PROTECTION. ROCK DOUGHNUT INLET PROTECTION AND ROCK PIPE INLET PROTECTION WHEN THE DESIGNED STORAGE CAPACITY HAS BEEN HALF FILLED WITH SEDIMENT. ROCK WILL BE CLEANED OR REPLACED WHEN THE SEDIMENT POOL NO LONGER DRAINS AS DESIGNED. DEBRIS WILL BE REMOVED FROM THE ROCK AND HARDWARE CLOTH TO ALLOW PROPER DRAINAGE. SILT SACKS WILL BE EMPTIED ONCE A WEEK AND AFTER EVERY RAIN EVENT. SEDIMENT WILL BE REMOVED FROM AROUND BEAVER DAMS, DANDY SACKS AND SOCKS ONCE A WEEK AND AFTER EVERY RAIN EVENT.

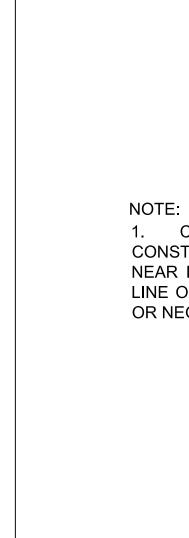
- 4. DIVERSION DITCHES WILL BE CLEANED OUT IMMEDIATELY TO REMOVE RIDGES WILL ALSO BE REPAIRED. SWALES MUST BE TEMPORARILY STABILIZED WITHIN 21 CALENDAR DAYS OF CEASE OF ANY PHASE OF ACTIVITY ASSOCIATED WITH A SWALE.
- 6. SEDIMENT WILL BE REMOVED FROM SEDIMENT TRAPS WHEN THE DESIGNED
- LONGER DRAINS OR WHEN THE ROCK IS DISLODGED. BAFFLES WILL BE REPAIRED OR REPLACED IF THEY COLLAPSE, TEAR, DECOMPOSE OR BECOME INEFFECTIVE. THEY WILL BE REPLACED PROMPTLY. SEDIMENT WILL BE REMOVED WHEN DEPOSITS REACH HALF THE HEIGHT OF THE 1st BAFFLE. FLOATING SKIMMERS WILL BE INSPECTED AND KEPT CLEAN
- ALL SEEDED AREAS WILL BE FERTILIZED. RESEEDED AS NECESSARY AND MULCHED ACCORDING TO SPECIFICATIONS IN THE VEGETATIVE PLAN TO MAINTAIN A VIGOROUS. DENSE VEGETATIVE COVER. ALL SLOPES WILL BE
- 10. FLOCCULANTS WILL BE USED TO ADDRESS TURBIDITY ISSUES. THE PUMPS,

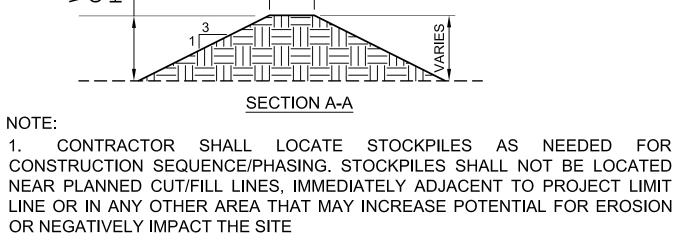




- STORAGE CAPACITY HAS BEEN HALF FILLED WITH SEDIMENT.
- THE ROCK WILL BE CLEANED OR REPLACED WHEN THE SEDIMENT POOL NO WEEKLY.
- SEDIMENT WILL BE REMOVED FROM THE SEDIMENT BASIN WHEN THE DESIGN STORAGE CAPACITY HAS BEEN HALF FILLED WITH SEDIMENT. ROCK WILL BE CLEANED OR REPLACED WHEN THE SEDIMENT POOL NO LONGER DRAINS OR IF THE ROCK IS DISLODGED. BAFFLES WILL BE REPAIRED OR REPLACED IF THEY COLLAPSE, TEAR, DECOMPOSE OR BECOME INEFFECTIVE. THEY WILL BE REPLACED PROMPTLY. SEDIMENT WILL BE REMOVED FROM BAFFLES WHEN DEPOSITS REACH HALF THE HEIGHT OF THE 1st BAFFLE. FLOATING SKIMMERS WILL BE INSPECTED WEEKLY AND WILL BE KEPT CLEAN.
- STABILIZED WITHIN 21 CALENDAR DAYS. ALL OTHER AREAS WILL BE STABILIZED WITHIN 15 WORKING DAYS.







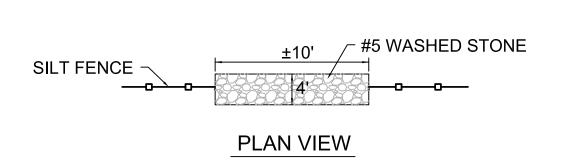
PLAN VIEW

VARIES

#5 WASHED SILT FENCE \ STONE \ 10'
7 1.5
S <u>ECTION VIEW</u>

MATERIAL STORAGE BERM

NOT TO SCALE



SILT FENCE OUTLET

NOT TO SCALE

MULCHING MATERIALS AND APPLICATION RATES RATE PER ACRE MATERIAL NOTES SHOULD COME FROM WHEAT OR OATS DRY, UNCHOPPED, UNWEATHERED; AVOID WEEDS SPREAD BY HAND OR MACHINE, MUST 2 TONS STRAW BE TACKED DOWN.

120 LBS. &

40 LBS.

120 LBS.

PERMANENT SODDING MAY BE USED IS LIEU OF PERMANENT SEEDING SHOWN BELOW.

TIME OF

SEEDING

APR. THRU JUNE

SEPT. THRU OCT. FEB. THRU OCT.

MARCH THRU APR.

50 LBS.

GRASS TYPE

RYE (GRAIN) &

LESPEDEZA, KOBE

GERMAN MILLET

RYE (GRAIN)

AMOUNT

1000 SF

1-2 LBS

5-7 LBS

1-2 LBS.

SITE AREA DESCRIPTION

SLOPES STEEPER THAN 3:1

SLOPES 3:1 OR FLATTER

FLATTER THAN 4:1

SPECIFICATIONS.

Do (IN.) | La (FT.) | W1(FT.) | d (IN.) | CLASS

15" 7.5 3.75

15" 7.5 3.75

30" 15 7.5 12

4.5

4.5

4.5

4.5

12

12 B

12 B

12 | B

12 | B

12 | B

В

AND SLOPES

PERIMETER DIKES, SWALES, DITCHES

HIGH QUALITY WATER (HQW) ZONES

ALL OTHER AREAS WITH SLOPES

FERTILIZATION/

750 LBS. 10-10-10

750 LBS. 10-10-10

1,000 LBS. 10-10-10

INITIAL

25 LBS. 10-10-10

25 LBS. 10-10-10

NEW STABILIZATION TIMEFRAMES

STABILIZATION

7 DAYS

7 DAYS

7 DAYS

14 DAYS

14 DAYS

NOTE: TEMPORARY SEEDING SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH

SECTION 6.10 OF THE NCDEQ EROSION CONTROL PLANNING AND DESIGN MANUAL.

SODDING SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH SECTION 6.12 OF

THE NCDEQ EROSION CONTROL PLANNING AND DESIGN MANUAL AND PROJECT

TEMPORARY SEEDING

PERMANENT VEGETATION

PERMANENT SEEDING

DEC 1-APR 15

APR 15-AUG 15

AUG 15-DEC 30

GRASS TYPE

FESCUE, TALL (KENTUCKY 31)

STR ID

FES #1

FES #6

FES #7

FES #8

FES #15

FES #16

FES #17 FES #18

FES #19

DOUBLE ROW OF

±4 FEET APART

SILT FENCE

18"

18"

18"

18"

18"

BERMUDA, COMMON

SERICEA LESPEDEZA (SLOPES)



MAINTENANCE

SEPT. - OCT. 12 LBS. 10-10-10

EACH 4-8 WEEKS

MAY & DEC. 1/2 TO 1 LB. N.

1/2 TO 1 LB. N.

TIMEFRAME EXCEPTIONS

7 DAYS FOR SLOPES GREATER

THAN 50' IN LENGTH.

IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE

NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED

NONE, EXCEPT FOR PERIMETERS AND HQW

NA

NA

FERTILIZATION/1000 SF

MARCH - APRIL

FEB. - MARCH 12 LBS. 10-10-10

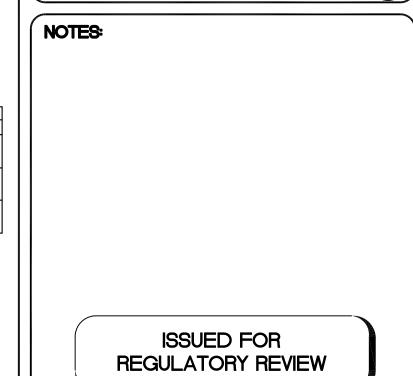
FEB. - MARCH

NONE

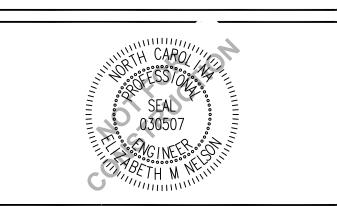
NONE

ZONES

VICINITY MAP NOT TO SCALE



	REVISED PER CITY OF WILMINGTON	EMN
D	COMMENTS	09/27/17
С	REVISED PER NHC COMMENTS	EMN
	REVISED PER NHC COMMENTS	07/31/17
В	ISSUED FOR REGULATORY REVIEW	EMN
	1550ED FOR REGULATORY REVIEW	07/07/17
A	ISSUED FOR REGULATORY REVIEW	EMN
	1350ED FOR REGULATORY REVIEW	02/21/17
REV.	DESCRIPTION	REV.BY
#	DESCRIPTION	DATE
	REVISIONS	





PROJECT NUMBER:	275-77	
SCALE:	As Shown	
DATE:	21 FEB 17	

CIVIL WORKS CONTRACTING 190 RALEIGH STREET WILMINGTON, NC

EROSION CONTROL DETAILS

SHEET NUMBER D-506 275-77

FILTER OF 1 INCH DIAMETER # 57 WASHED STONE	FLOW SHARE S
SILT FENCE FABRIC TO OVERLAP HARDWARE CLOTH BY 12 INCHES SILT FENCE FABRIC ON WIRE FENCE FILTER OF 1 INCH DIAMETER	HARDWARE CLOTH ON WIRE FENCE PLAN VIEW NOTE:
FLOW DIRECTION 18" GRADE HARDWARE CLOTH IN I	USE SILT FENCE OUTLETS ONLY WHEN DRAINAGE AREA DOES NOT EXCEED 1/4 ACRE AND THERE IS A LOW AREA. USE AS A REPAIR OF SILT FENCE FAILURES. STEEL FENCE POST SET MAXIMUM 2 FEET APART WIRE FENCE
SIDE VIEW SILT FENCE FABRIC OVERLAP SI 12 SINCHES GRADE	OVERLAP I 12 INCHES INCHES INCHES
FRONT V	NOTE: BURY WIRE FENCE, HARDWARE CLOTH, AND SILT FENCE FABRIC 6 INCHES INTO THE TRENCH
GENERAL NOTES: 1. SEDIMENT FILTER OUTLET AND HARDWARE CLOTH SHALL BE 16 INCHES HIGH BUT NO TALLER THAN 18 INCHES. 2. HARDWARE CLOTH SHALL BE ANCHORED TO THE STEEL POSTS SECURELY USING APPROPRIATE ANCHORS. HARDWARE CLOTH SHALL BE KEYED IN A MINIMUM OF 12 INCHES IN LENGTH AND BACKFILLED PROPERLY AS SHOWN IN ABOVE DETAIL. HARDWARE CLOTH TO BE SAME AS STD. #30.09 (19 GAUGE, 1/4" SPACING). 3. POSTS SHALL BE NO MORE THAN 4 FEET APART. 4. SITE OUTLETS AT ANY POINT SMALL CONCENTRATED FLOWS ARE ANTICIPATED AND AT THE DIRECTION OF THE INSPECTOR.	MAINTENANCE NOTES: 1. FILTER OUTLETS SHALL BE INSPECTED BY THE FINANCIALLY RESPONSIBLE PARTY OR HIS AGENT IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REPAIRS NEEDED SHALL BE MADE IMMEDIATELY. 2. THE STONE SHALL BE REPLACED PROMPTLY AFTER ANY EVENT THAT HAS CLOGGED OR REMOVED IT. 3. SEDIMENT DEPOSITS SHOULD BE REMOVED WHEN DEPOSITS REACH HALF THE HEIGHT OF THE BARRIER. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE OUTLET IS REMOVED SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDED.

