

# 320 Chestnut Street Additions & Renovations New Hanover County

TRC SUBMITTAL  
February 28, 2014

## INDEX OF DRAWINGS

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## Abbreviations

- A.C.T. - ACOUSTICAL CEILING TILE
- ADJ. - ADJUSTABLE
- A.F.F. - ABOVE FINISHED FLOOR
- ALUM. - ALUMINUM
- AHU - AIR HANDLING UNIT
- BLDG. - BUILDING
- B.O.S. - BOTTOM OF STEEL
- B.R. - BACKER ROD
- C.J. - CONTROL JOINT
- C.M.U. - CONCRETE MASONRY UNIT
- CONC. - CONCRETE
- C.O. - CLEAN OUT
- CONT. - CONTINUOUS
- CP - CONCRETE PIPE
- C.L. - CENTER LINE
- DIA. - DIAMETER
- DIM. - DIMENSION
- D.S. - DOWN SPOUT
- E.C. - ELECTRICAL CONTRACTOR
- E.J. - EXPANSION JOINT
- ELEV. - ELEVATION
- EQ. - EQUAL
- EQUIP. - EQUIPMENT
- EXIST. - EXISTING
- EXP. JT. - EXPANSION JOINT
- F.F.E. - FINISH FLOOR ELEVATION
- GALV. - GALVANIZED
- GA. - GAUGE
- G.C. - GENERAL CONTRACTOR
- GWB-GYPSUM WALL BOARD
- HT. - HEIGHT
- INSUL. - INSULATION
- INV. - INVERT
- JT. - JOINT
- MAS. - MASONRY
- MAX. - MAXIMUM
- MECH. - MECHANICAL
- MFG. - MANUFACTURER
- MIN. - MINIMUM
- NOM. - NOMINAL
- O.C. - ON CENTER
- PERF. - PERFORATED
- HPL - HIGH PRESSURE LAMINATE
- PLYWD. - PLYWOOD
- P.S.I. - POUNDS PER SQUARE INCH
- R. - RADIUS
- R/A - RETURN AIR
- R.A.G. - RETURN AIR GRILL
- R.C.P. - REINFORCED CONCRETE PIPE
- RD. - ROOF DRAIN
- REINF. - REINFORCEMENT
- REQD. - REQUIRED
- R.O. - ROUGH OPENING
- S/A - SUPPLY AIR
- S.S. - STAINLESS STEEL
- T.O.M. - TOP OF MASONRY
- STRUCT. - STRUCTURAL
- T.O.S. - TOP OF STEEL
- TRTD. - TREATED
- TYP. - TYPICAL
- V.B. - VAPOR BARRIER
- V.C.T. - VINYL COMPOSITE TILE
- VERT. - VERTICAL
- W. - WITH
- @ - AT, AROUND, REGARDING

## Symbols Legend

- DRAWING TITLE**
- INDICATES DRAWING #
  - Drawing Title
  - Scale
  - INDICATES SHEET WHERE DRAWING IS SHOWN
- BUILDING SECTION REFERENCE**
- INDICATES SECTION #
  - INDICATES SHEET WHERE DRAWING IS SHOWN
- WALL SECTION REFERENCE**
- INDICATES SHEET WHERE SECTION IS SHOWN
  - INDICATES SECTION #
- ELEVATION REFERENCE**
- INDICATES SHEET WHERE ELEVATION IS SHOWN
  - INDICATES ELEVATION #
- PLAN DETAIL REFERENCE**
- INDICATES ENLARGED DETAIL
- 100 DOOR #      100 ROOM #
- A WINDOW TYPE
- VERTICAL ELEVATION ABOVE REFERENCE POINT

## SITE LOCATION MAP



PROJECT LOCATION

## 2012 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS (EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES) (Reproduce the following data on the building plans sheet 1 or 2)

Name of Project: 320 Chestnut Street Additions & Renovations  
Address: 320 Chestnut Street, Wilmington, N.C. Zip Code 28401  
Proposed Use: Business  
Owner/Authorized Agent: John Sawyer Architects Phone # (910) 762-0892 E-Mail john@johnsawyerarchitects.com  
Owned By: new Hanover County  City/County  Private  State  
Code Enforcement Jurisdiction:  City  County New Hanover  State

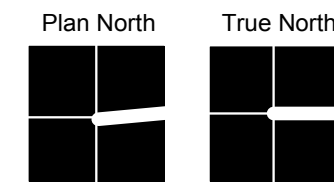
**LEAD DESIGN PROFESSIONAL:** John Sawyer Architects, PC - John R. Sawyer, AIA

DESIGNER	FIRM	NAME	LICENSE #	TELEPHONE #	E-MAIL
Architectural	John Sawyer Architects	John R. Sawyer	3428	(910) 762-0892	john@johnsawyerarchitects.com
Civil	N/A				
Electrical	David Sims & Assoc.	David B. Sims Jr.	7138	(910) 791-8016	david@dsaeng.com
Fire Alarm	David Sims & Assoc.	David B. Sims Jr.	7138	(910) 791-8016	david@dsaeng.com
Plumbing	David Sims & Assoc.	David B. Sims Jr.	7138	(910) 791-8016	david@dsaeng.com
Mechanical	David Sims & Assoc.	David B. Sims Jr.	7138	(910) 791-8016	david@dsaeng.com
Sprinkler-Standpipe	David Sims & Assoc.	David B. Sims Jr.	7138	(910) 791-8016	david@dsaeng.com
Structural	W.D. Jones Engineering	Doug Jones	025852	(910) 523-5381	wjengineer@cc.rr.com
Retaining Walls >5' High	N/A				
Other	N/A				

**2012 EDITION OF NC CODE FOR:**  New Construction  Addition  Uplift  
**EXISTING:**  Reconstruction  Alteration  Repair  Renovation  
**CONSTRUCTED:** (date) 1950 **ORIGINAL USE(S)** (Ch. 3): Business  
**RENOVATED:** (date) Various dates **CURRENT USE(S)** (Ch. 3): Business  
**PROPOSED USE(S)** (Ch. 3): Business

**BASIC BUILDING DATA**  
**Construction Type:**  I-A  II-A  III-A  IV  V-A  
(check all that apply)  I-B  II-B  III-B  V-B  
**Sprinklers:**  No  Partial  Yes  NFPA 13  NFPA 13R  NFPA 13D  
**Standpipes:**  No  Yes Class  I  II  III  Wet  Dry  
**Fire District:**  No  Yes (Primary) **Flood Hazard Area:**  No  Yes  
**Building Height:** (feet) 82

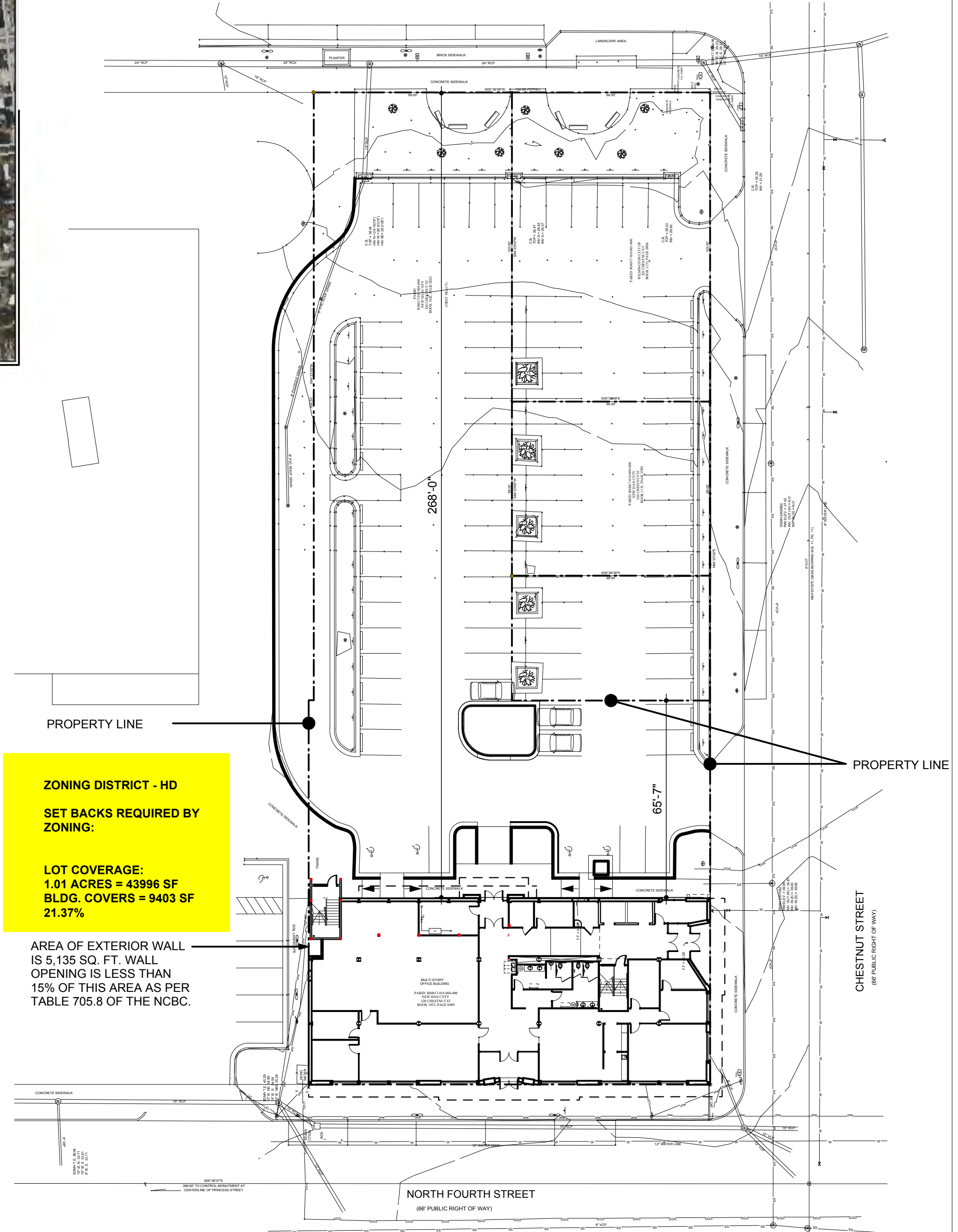
2012 NC Administrative Code and Policies



For each open utility cut of City streets, a \$325 permit shall be required from the City prior to occupancy and/or project acceptance.

**WILMINGTON**  
NORTH CAROLINA  
Public Services Engineering Division  
APPROVED DRAINAGE PLAN  
Date: Permit #  
Signed:

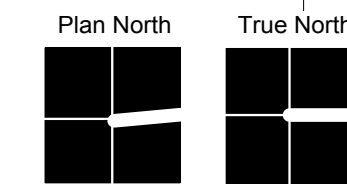
**WILMINGTON**  
NORTH CAROLINA  
Approved Construction Plan  
Name: Date:  
Planning:  
Traffic:  
Fire:



**ZONING DISTRICT - HD**  
**SET BACKS REQUIRED BY ZONING:**  
**LOT COVERAGE:**  
1.01 ACRES = 43996 SF  
BLDG. COVERS = 9403 SF  
21.37%

AREA OF EXTERIOR WALL IS 5,135 SQ. FT. WALL OPENING IS LESS THAN 15% OF THIS AREA AS PER TABLE 705.8 OF THE NCBC.

9 Zoning & Lot Coverage  
G1.0 Scale: 1" = 30 ft



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Wilmington, NC 28401  
910.762.0892  
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Arboretum Centre  
108 Oates Avenue - Suite 100  
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(910) 791-8016 (OFFICE)  
(910) 395-5734 (FAX)  
NC License: C-1150

**WD JONES ENGINEERING, PLLC**  
Structural Engineering Services  
18933 Eaveswood Road, Unit 26, Wilmington, N.C. 28403  
Office: (910) 523-5381 Email: wjengineer@cc.rr.com

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2000 New Quarter Drive  
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Fax: (910) 791-1918  
www.clhdesign.com

**STAFFORD CONSULTING ENGINEERS**  
A TERRACON COMPANY  
Building Envelope Systems Specialists



320 Chestnut Street  
Additions & Renovations  
New Hanover County

TRC Submittal  
February 24, 2014

Revisions:

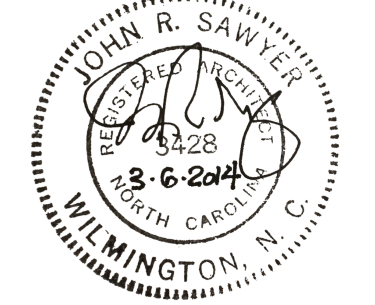
TRC Review 01/09/14

3 03/31/2015 Address Outstanding  
TRC Comments

Cover

G1.0  
of  
6 Sheets

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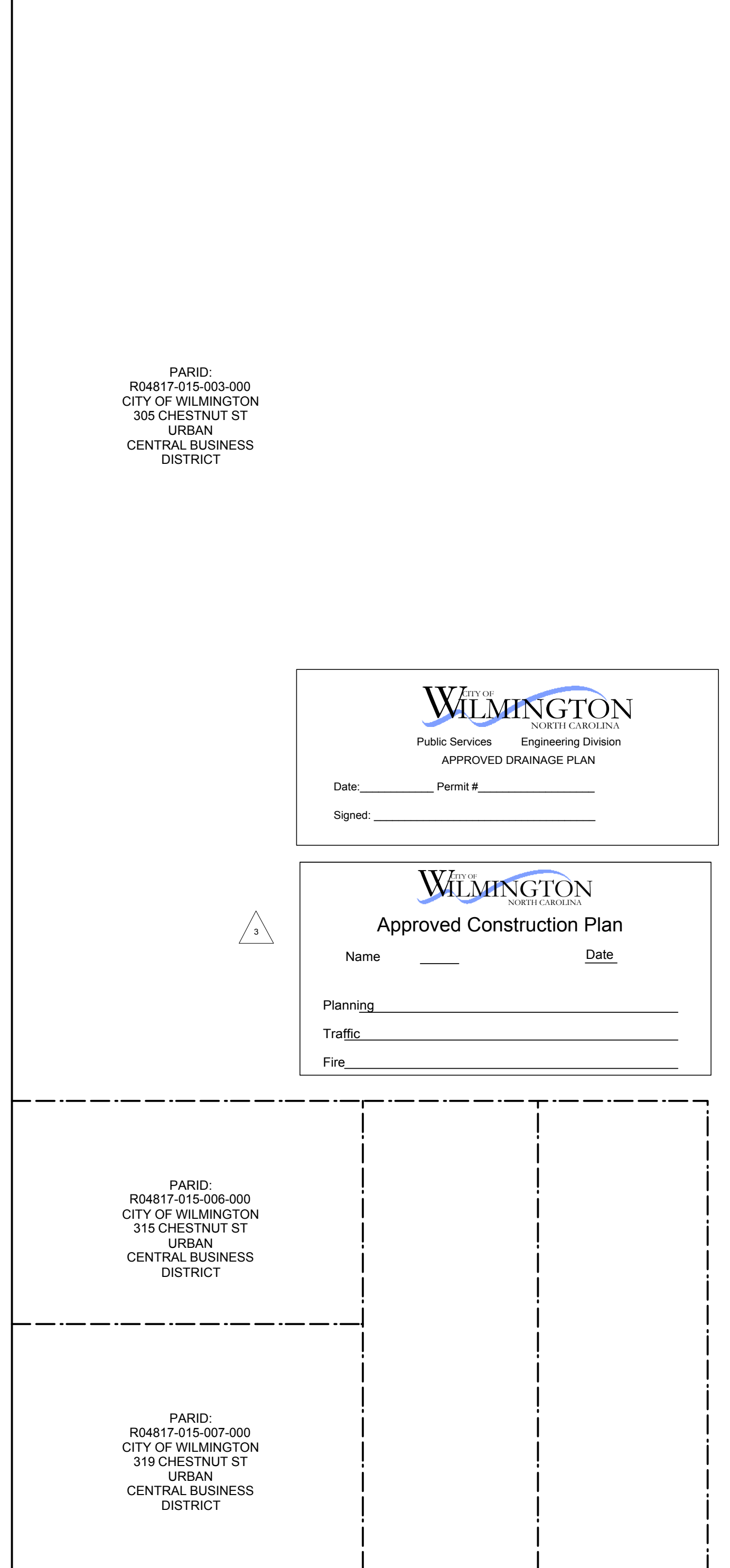
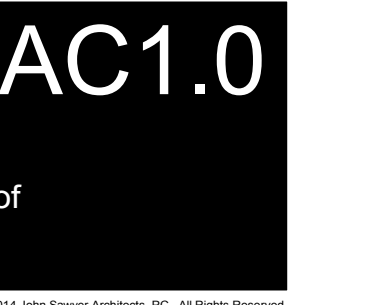
**320 Chestnut Street Additions & Renovations**  
New Hanover County

Construction Drawings  
January 24, 2014

Revisions:

- 15 May, 2014  
Parking note added.
- 26 June, 2014  
Site Data Tabulation Added.
- 3/31/15 Address outstanding
- TRC comments

**Site & Adjacent Property Owners**

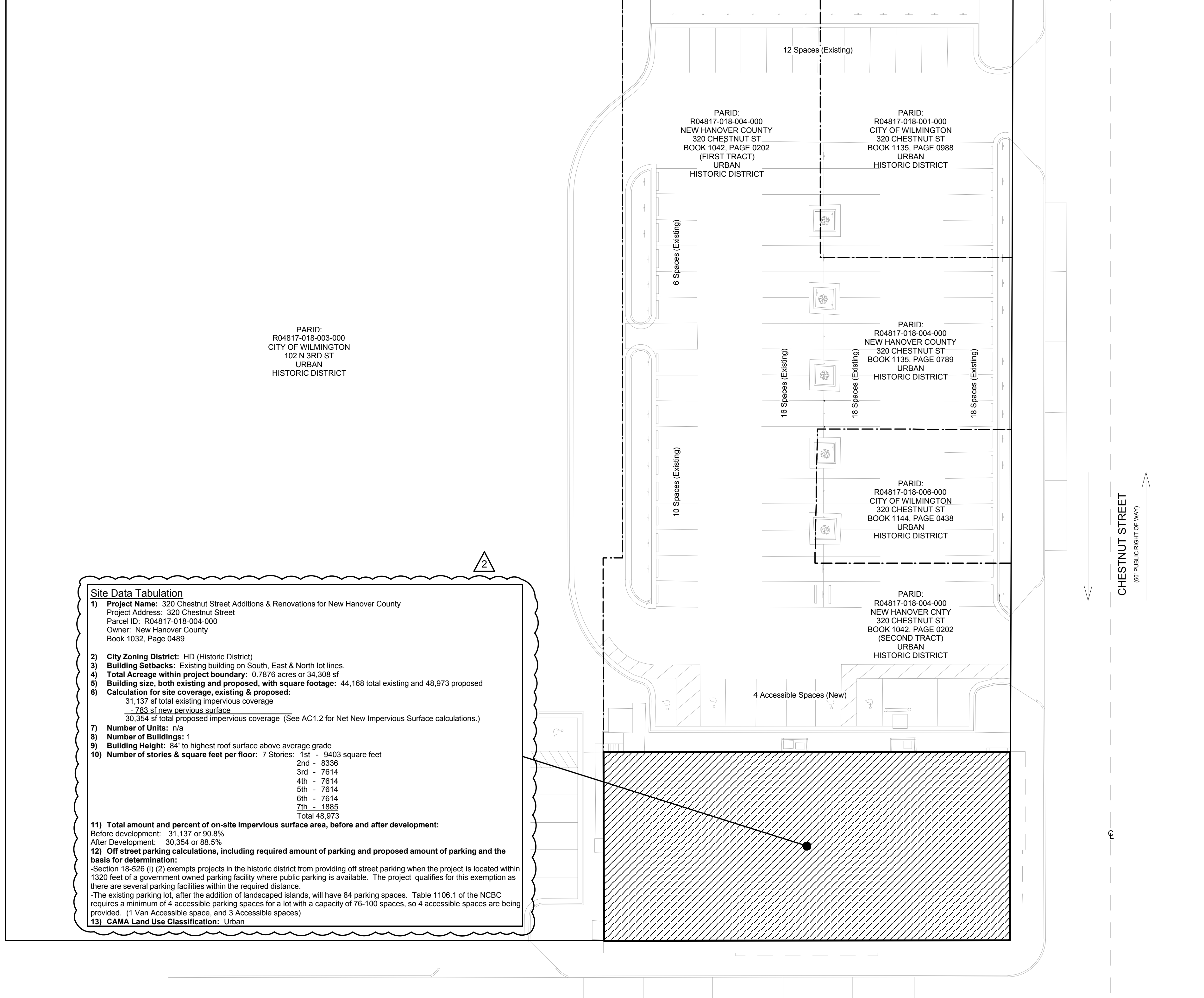


**CITY OF WILMINGTON**  
NORTH CAROLINA  
Public Services Engineering Division  
APPROVED DRAINAGE PLAN

Date: \_\_\_\_\_ Permit # \_\_\_\_\_  
Signed: \_\_\_\_\_

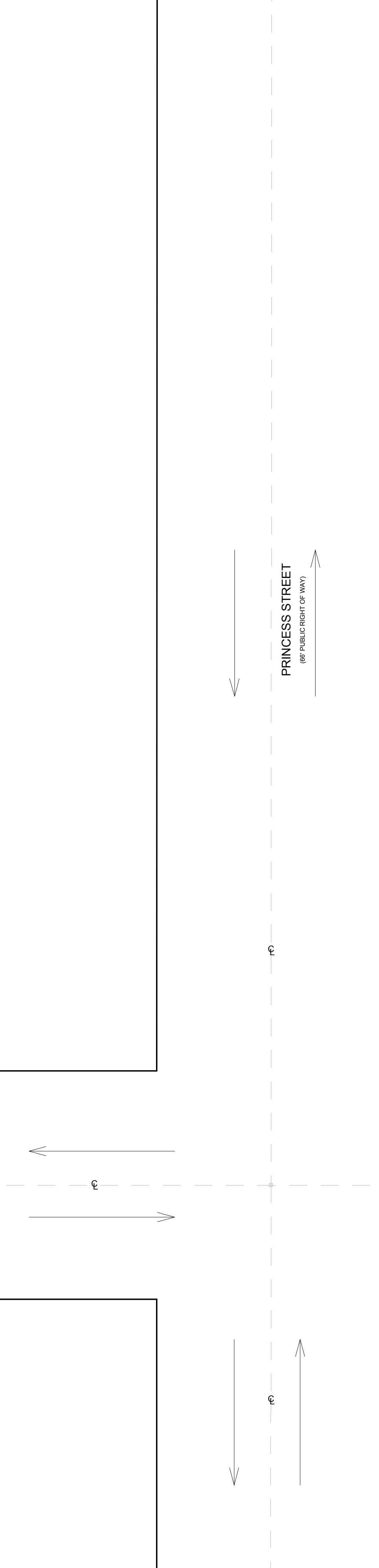
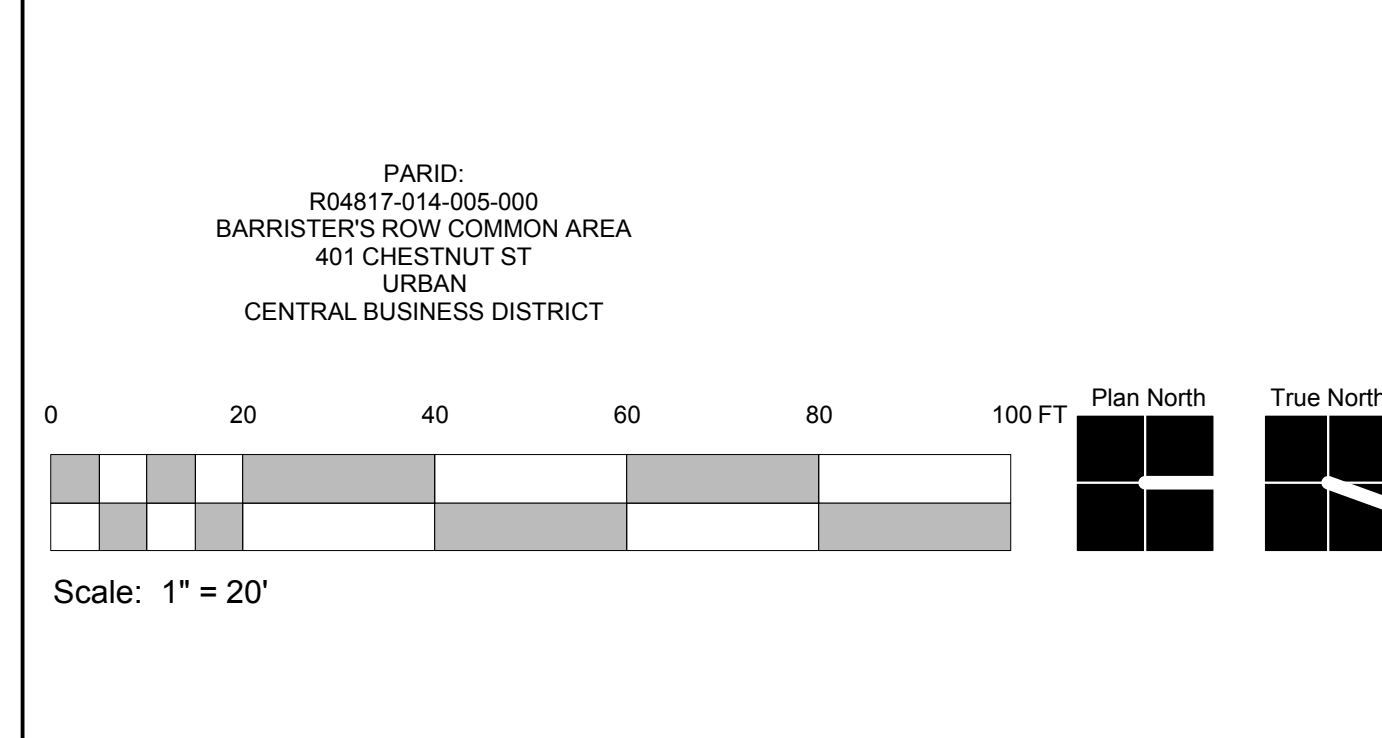
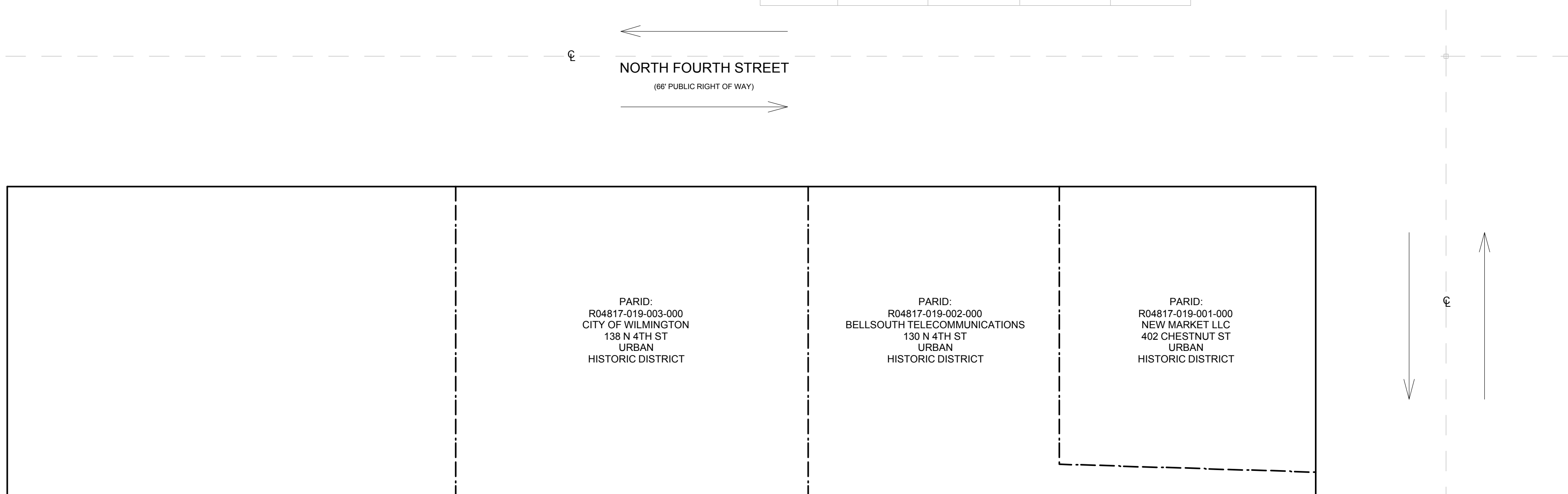
**CITY OF WILMINGTON**  
NORTH CAROLINA  
Approved Construction Plan

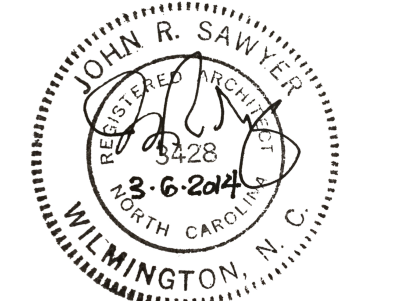
Name \_\_\_\_\_ Date \_\_\_\_\_  
Planning \_\_\_\_\_  
Traffic \_\_\_\_\_  
Fire \_\_\_\_\_



**Site Data Tabulation**

- 1) **Project Name:** 320 Chestnut Street Additions & Renovations for New Hanover County  
Project Address: 320 Chestnut Street  
Parcel ID: R04817-019-004-000  
Owner: New Hanover County  
Book 1032, Page 0489
- 2) **City Zoning District:** HD (Historic District)
- 3) **Building Setbacks:** Existing building on South, East & North lot lines.
- 4) **Total Acreage within project boundary:** 0.7876 acres or 34,308 sf
- 5) **Building size, both existing and proposed, with square footage:** 44,168 total existing and 48,973 proposed
- 6) **Calculation for site coverage, existing & proposed:**  
31,137 sf total existing impervious coverage  
- 783 sf new impervious surface  
30,354 sf total proposed impervious coverage (See AC1.2 for Net New Impervious Surface calculations.)
- 7) **Number of Units:** n/a
- 8) **Number of Buildings:** 1
- 9) **Building Height:** 84' to highest roof surface above average grade
- 10) **Number of stories & square feet per floor:** 7 Stories: 1st - 9403 square feet  
2nd - 8336  
3rd - 7614  
4th - 7614  
5th - 7614  
6th - 7614  
7th - 1885  
Total 48,973
- 11) **Total amount and percent of on-site impervious surface area, before and after development:**  
Before development: 31,137 or 90.8%  
After Development: 30,354 or 88.5%
- 12) **Off street parking calculations, including required amount of parking and proposed amount of parking and the basis for determination:**  
-Section 18-526 (i) (2) exempts projects in the historic district from providing off street parking when the project is located within 1320 feet of a government owned parking facility where public parking is available. The project qualifies for this exemption as there are several parking facilities within the required distance.  
-The existing parking lot, after the addition of landscaped islands, will have 84 parking spaces. Table 1106.1 of the NCBC requires a minimum of 4 accessible parking spaces for a lot with a capacity of 76-100 spaces, so 4 accessible spaces are being provided. (1 Van Accessible space, and 3 Accessible spaces)
- 13) **CAMA Land Use Classification:** Urban





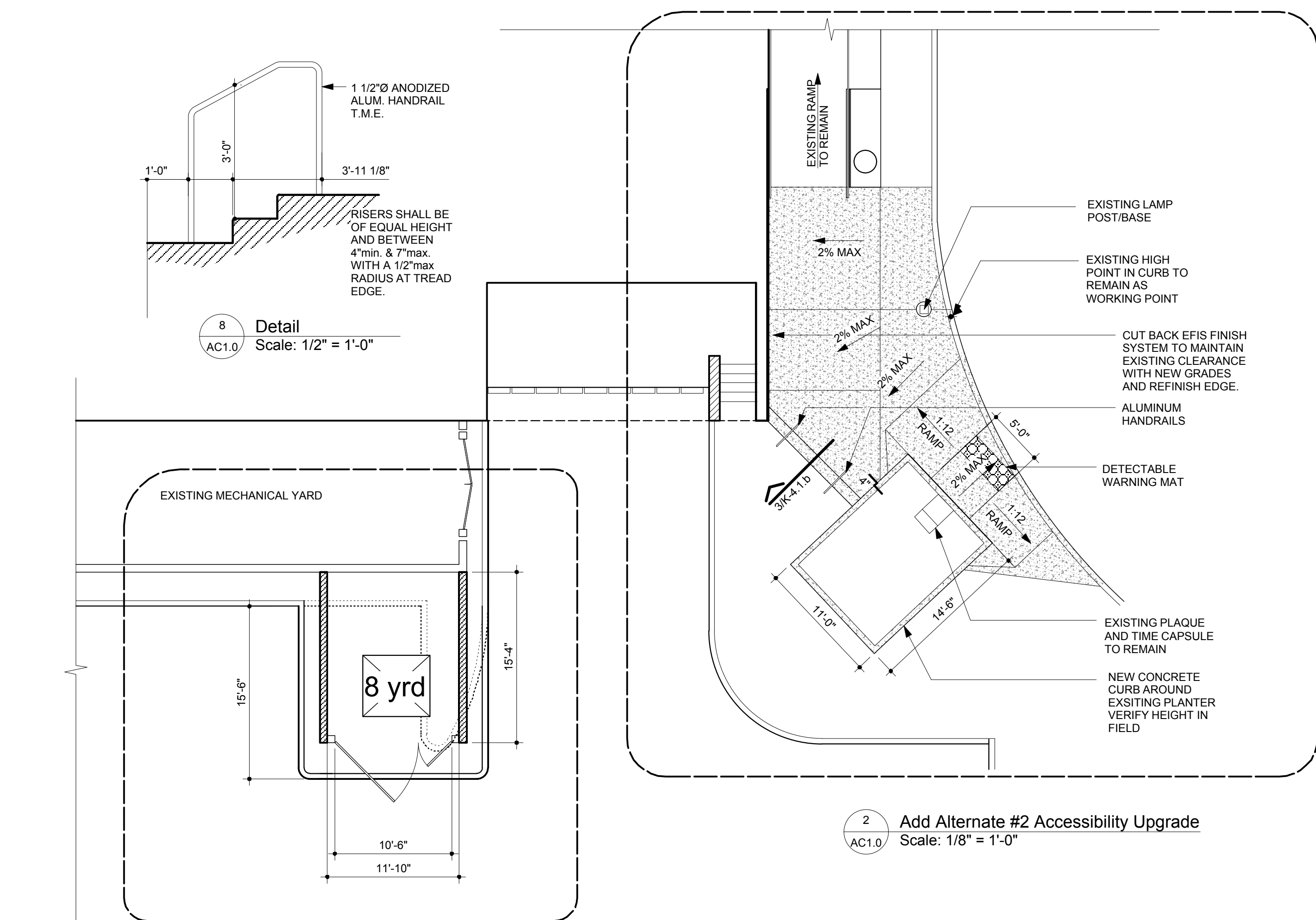
**320 Chestnut Street Additions & Renovations**  
New Hanover County

Construction Drawings  
January 24, 2014

Revisions:  
26 June, 2014 Construction fence revised & Dumpster Alternate Bid Not Accepted  
3/31/15 Address outstanding TRC comments

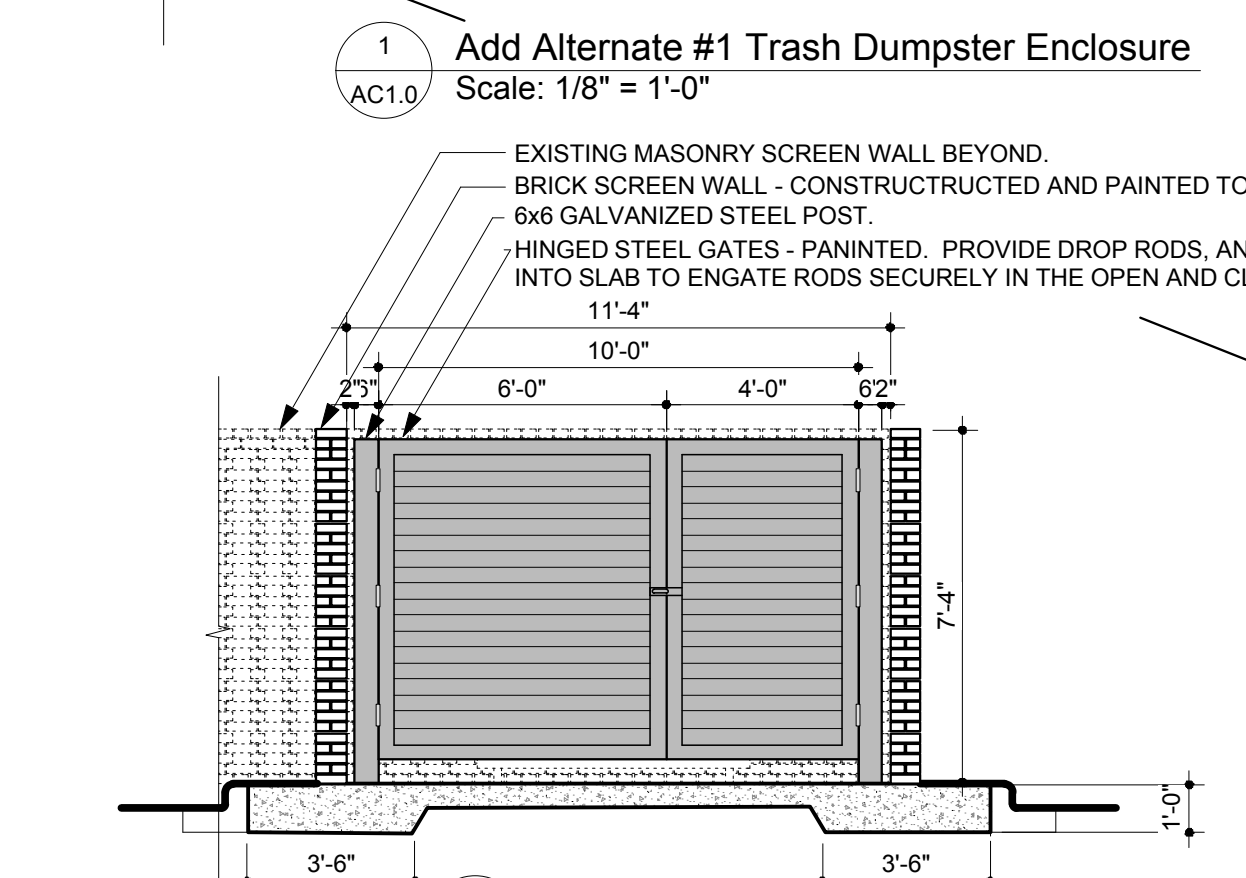
**Construction Fence Plan and Off Site Improvements**

**AC1.1**  
of 1 Sheets

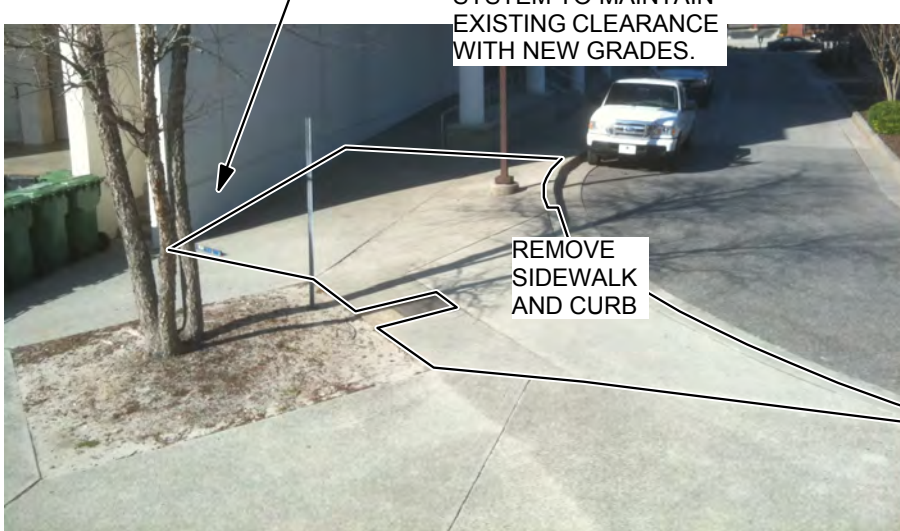


8 Detail  
AC1.0  
Scale: 1/2" = 1'-0"

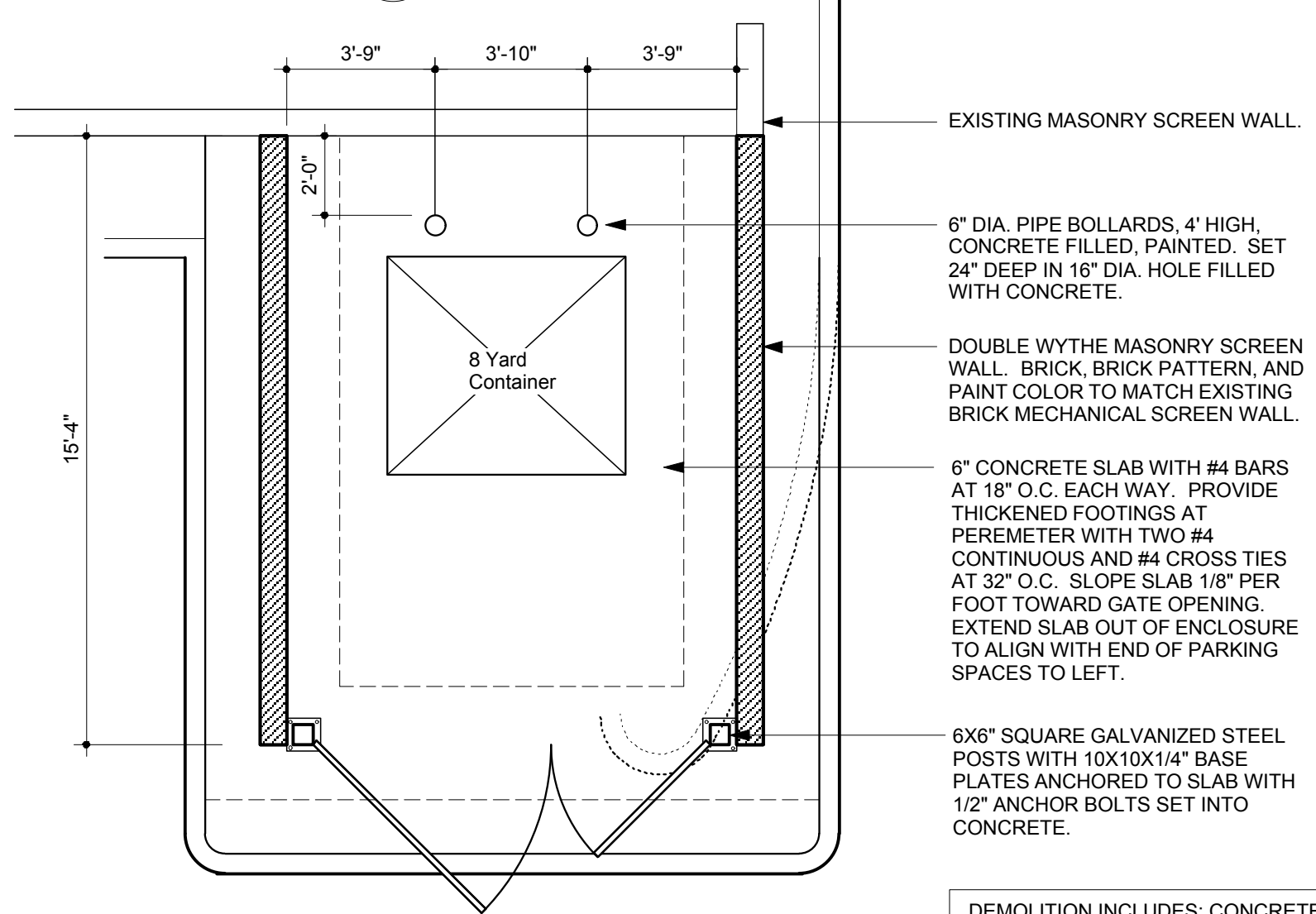
2 Add Alternate #2 Accessibility Upgrade  
AC1.0  
Scale: 1/8" = 1'-0"



4 Front Elevation  
AC1.0  
Scale: 1/4" = 1'-0"



5 Photo  
AC1.0  
Scale: 1/2" = 1'-0"



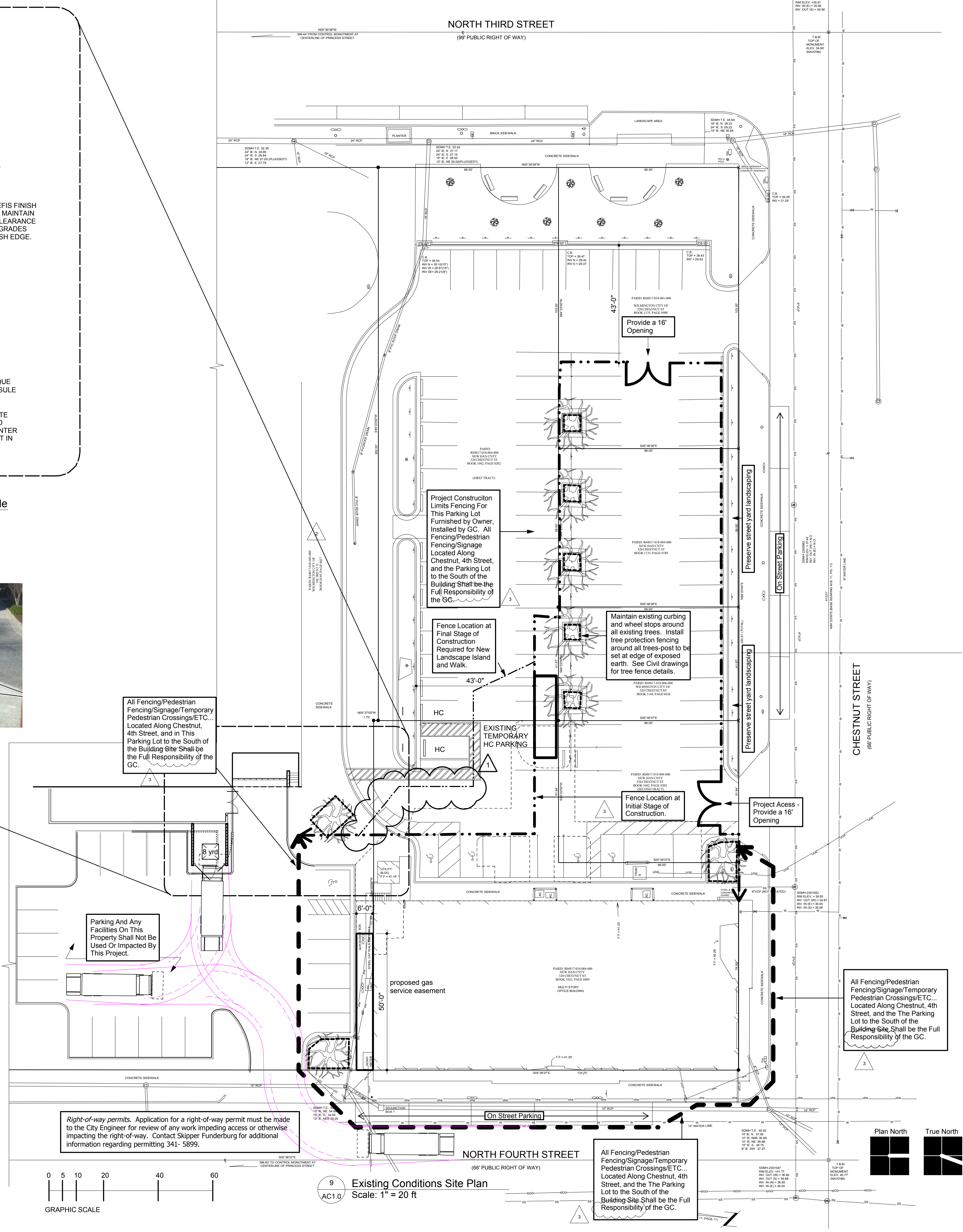
7 Plan  
AC1.0  
Scale: 1/4" = 1'-0"

For each open utility cut of City streets, a \$325 permit shall be required from the City prior to occupancy and/or project acceptance.

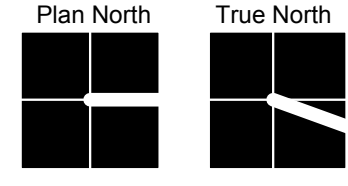
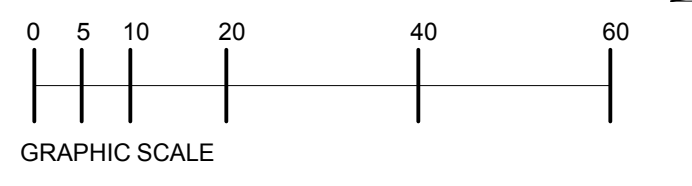
**CITY OF WILMINGTON**  
NORTH CAROLINA  
Public Services Engineering Division  
APPROVED DRAINAGE PLAN  
Date: \_\_\_\_\_ Permit # \_\_\_\_\_  
Signed: \_\_\_\_\_

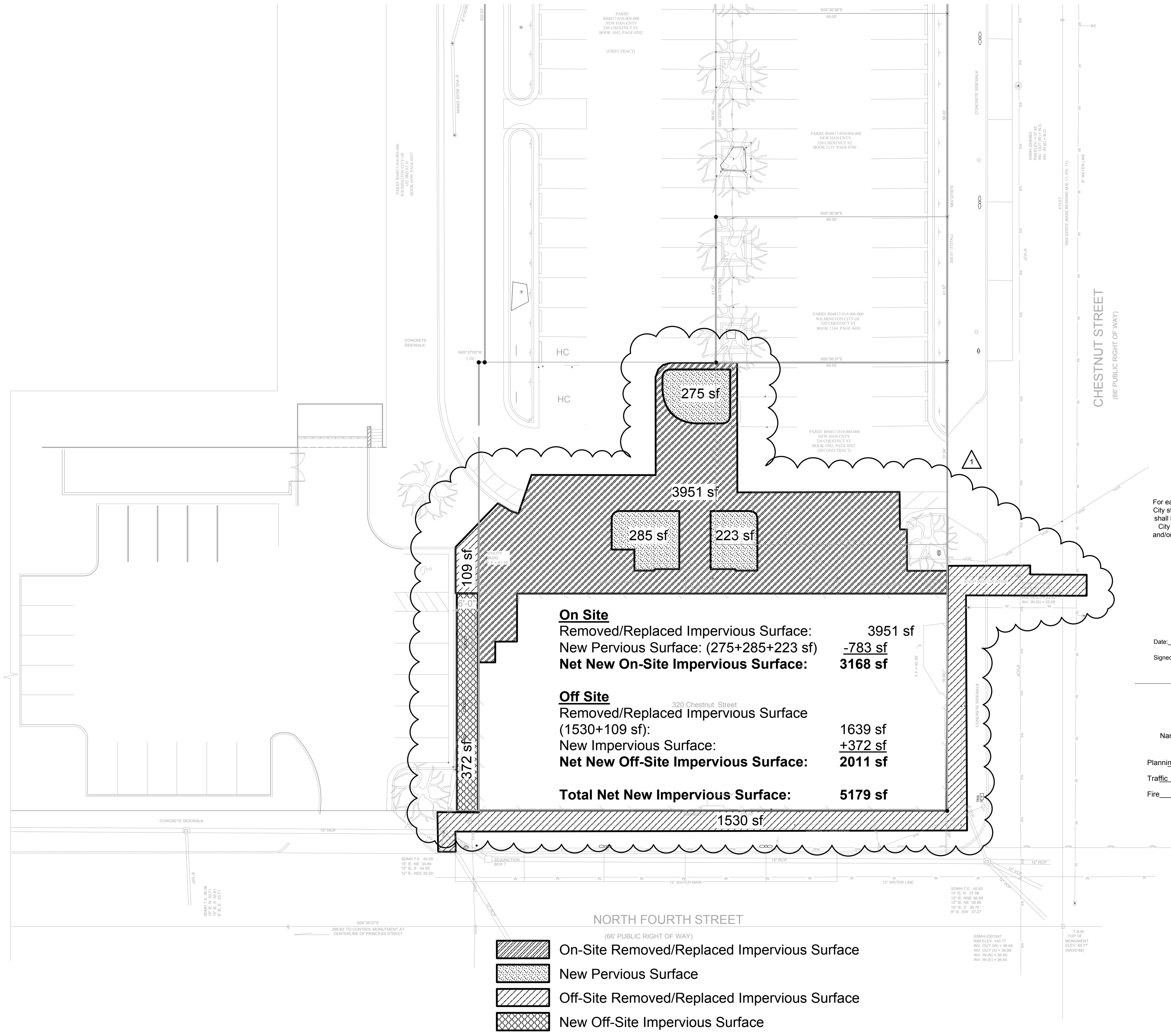
**CITY OF WILMINGTON**  
NORTH CAROLINA  
Approved Construction Plan  
Name \_\_\_\_\_ Date \_\_\_\_\_  
Planning \_\_\_\_\_  
Traffic \_\_\_\_\_  
Fire \_\_\_\_\_

DEMOLITION INCLUDES: CONCRETE CURB, ASPHALT PAVING, PARKING STRIP REMOVAL.



9 Existing Conditions Site Plan  
AC1.0  
Scale: 1" = 20 ft





- On-Site Removed/Replaced Impervious Surface
- New Pervious Surface
- Off-Site Removed/Replaced Impervious Surface
- New Off-Site Impervious Surface

9 Impervious Surface Calculations  
AC1.2 Scale: 1/16" = 1'-0"

For each open utility cut of City streets, a \$325 permit shall be required from the City prior to occupancy and/or project acceptance.



Date: \_\_\_\_\_ Permit # \_\_\_\_\_  
Signed: \_\_\_\_\_



Name \_\_\_\_\_ Date \_\_\_\_\_  
Planning \_\_\_\_\_  
Traffic \_\_\_\_\_  
Fire \_\_\_\_\_

**John Sawyer Architects**

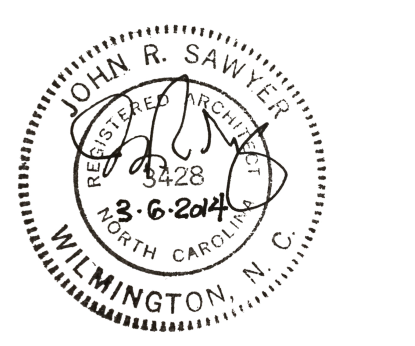
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**320 Chestnut Street Additions & Renovations**  
New Hanover County

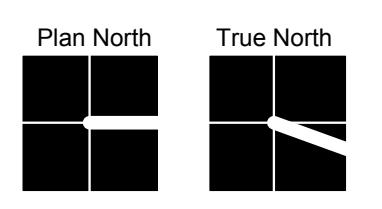
Construction Drawings  
January 24, 2014

Revisions:  
1 26 June, 2014  
Impervious calcs revised.

3 3/31/15 Address outstanding TRC comments

**Impervious Surface Calculation**

**AC1.2**  
of 1 Sheets



PARID: R04817-018-006-000  
 WILMINGTON CITY OF  
 320 CHESTNUT ST  
 BOOK 1144, PAGE 0438

PARID: R04817-018-004-000  
 NEW HAN CITY  
 320 CHESTNUT ST  
 BOOK 1042, PAGE 0202  
 (SECOND TRACT)

PARID: R04817-018-004-000  
 NEW HAN CITY  
 320 CHESTNUT ST  
 BOOK 1032, PAGE 0489

**NORTH FOURTH STREET**  
 66' PUBLIC R/W

**CHESTNUT STREET**  
 66' PUBLIC R/W

**KEY NOTES**

- (A) CONCRETE WHEEL STOPS, SEE DETAIL SHEET C5.1.
- (B) CONCRETE SIDEWALK, SEE DETAIL SHEET C5.1.
- (C) ACCESSIBLE CURB RAMP, SEE DETAIL SHEET C5.1.
- (D) 24" CURB AND GUTTER, SEE DETAIL SHEET 5.1.
- (E) WHITE PARKING SPACE MARKING, SEE TRAFFIC CONTROL NOTES THIS SHEET.
- (F) ACCESSIBLE PARKING SIGNAGE MOUNTED ON BUILDING, SEE DETAIL SHEET C5.1.
- (G) DIRECTIONAL ARROWS, SEE TRAFFIC CONTROL NOTES THIS SHEET.
- (H) ASPHALT PAVEMENT, SEE DETAIL SHEET C5.1.
- (I) BOLLARD, SEE DETAIL SHEET C5.1. CONFIRM CLEARANCES WITH DUKE ENERGY PRIOR TO INSTALLATION.
- (J) ACCESSIBLE RAMP, SEE DETAIL SHEET C5.1.
- (K) CROSSWALK, SEE DETAIL SHEET C5.1.
- (L) 8"x8" CONCRETE PAVERS, SEE DETAIL SHEET C5.1.
- (M) REPLACE EXISTING CURB TO CITY OF WILMINGTON STANDARDS AND SPECIFICATIONS.
- (N) NEW BICYCLE RACKS (2) - "BOLA" BY LANDSCAPE FORMS (OR APPROVED EQUAL) INSTALLED PER MANUFACTURERS RECOMMENDATIONS.

**GENERAL NOTES**

1. ALL DIMENSIONS SHOWN ARE TO FACE OF CURB AND FACE OF BUILDING WALL, UNLESS OTHERWISE INDICATED.
2. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS INDICATED AND NOTIFY ARCHITECT OF ANY DISCREPANCIES.
3. CONSTRUCTION STAKE OUT IS THE RESPONSIBILITY OF THE CONTRACTOR.
4. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH CITY OF WILMINGTON AND LOCAL STANDARDS AND SPECIFICATIONS.
5. ALL EXISTING ITEMS TO REMAIN: SUCH AS PLANT MATERIAL, IRRIGATION, SOD, SITE WALLS, FENCES, HARDSCAPE, ASPHALT, ETC. THAT ARE DISTURBED OR DAMAGED, SHALL BE REPLACED AND RESTORED TO MATCH PRE-CONSTRUCTION CONDITIONS AT NO ADDITIONAL COST TO THE OWNER.
6. EXISTING SITE SURVEY INFORMATION WAS TAKEN FROM TOPOGRAPHIC SURVEY BY ARNOLD W. CARSON, PLS, PC DATED 2-11-13. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO BEGINNING WORK.
7. CONTRACTOR SHALL SUBMIT SCORING PATTERN LAYOUT FOR APPROVAL FOR ALL NEW WALKS PRIOR TO CONCRETE PLACEMENT. EXPANSION AND CONTROL JOINTS SHALL BE SPACED ACCORDING TO SPECIFICATIONS.
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.
9. A UTILITY CUT PERMIT IS REQUIRED FOR EACH OPEN CUT OF A CITY STREET. CONTACT 910-341-7888.
10. CONTACT TRAFFIC ENGINEER AT 910-341-7888 FORTY EIGHT HOURS PRIOR TO ANY EXCAVATION IN THE RIGHT OF WAY TO ENSURE THAT ALL TRAFFIC SIGNAL FACILITIES AND EQUIPMENT ARE PROPERLY LOCATED.
11. IMMEDIATELY NOTIFY CITY OF WILMINGTON TRAFFIC ENGINEERING AT 910-341-7888 IF ANY TRAFFIC SIGNAL FACILITIES OR CITY-OWNED STREETLIGHT FACILITIES ARE DAMAGED.
12. DAMAGED FACILITIES SHALL BE REPLACED BY AN APPROVED CONTRACTOR IN ACCORDANCE WITH STANDARD NCDOT REPLACEMENT SCHEDULES AND CURRENT NCDOT DESIGN STANDARDS.
13. ALL REPAIR/REPLACEMENT OF TRAFFIC SIGNAL INFRASTRUCTURE SHALL BE COORDINATED WITH THE CITY OF WILMINGTON TRAFFIC ENGINEERING DIVISION.
14. CONTACT 910-342-2786 TO DISCUSS PROPOSED REMOVAL/RECONFIGURATION/CONSTRUCTION SEQUENCING RELATED TO ON-STREET PARKING SPACES.

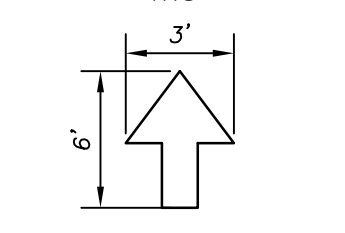
**TRAFFIC CONTROL NOTES**

1. ALL SITE SIGNAGE SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND NCDOT STANDARDS.
 

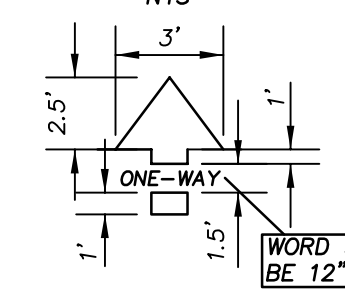
SIGN	MUTCD STD.	SIZE
STOP	R1-1	36" x 36"
DO NOT ENTER	RS-1	30" x 30"
2. ALL SIGNS SHALL BE MOUNTED WITH 5'-FT MIN. VERTICAL CLEARANCE TO THE BOTTOM OF THE SIGN ON 2-LB. GALV. STEEL U-CHANNEL POST SET IN 3'-4" DEEP x 12-IN DIA. CONCRETE FOOTING.
3. ALL PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE MUTCD AND NCDOT STANDARDS AND THE PROJECT SPECIFICATIONS.
 

MARKING	PARKING SPACES	CROSSWALK	HI-VIS CROSSWALK	DIRECTIONAL ARROWS (SEE DIAGRAM)	NCDOT STD.	SIZE	COLOR	WHT.
					4-IN	4-IN	WHT.	
					1205.07(STD)	8-IN	WHT.	
					1205.07(HI-VIS)	24-IN	WHT.	
					STD.		WHT.	
4. ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC TYPE WITH REFLECTIVE GLASS BEADS. THERMOPLASTIC MATERIAL SHALL BE SPECIALLY FORMULATED FOR PERMANENT ADHESION TO CONCRETE.
5. ALL SIGNAGE SHALL BE FIELD STAKED AND THE LOCATIONS APPROVED BY ARCHITECT PRIOR TO INSTALLATION.
6. CENTER ALL DIRECTIONAL ARROWS WITHIN TRAVEL LANE.
7. COORDINATE AND INSTALL FIRE LANE MARKINGS AS REQUIRED BY CITY OF WILMINGTON FIRE MARSHAL.
8. ALL PAVEMENT MARKINGS ON CITY STREETS OR ENTRANCE TO RIGHT OF WAY WILL BE THERMO-PLASTIC STOP/YIELD BARS MUST BE 4' BEHIND THE CROSSWALK.
9. ALL TRAFFIC CONTROL DEVICES SHALL MEET THE MUTCD, NC SUPPLEMENT TO THE MUTCD, AND THE CITY OF WILMINGTON (SSD) STANDARDS.

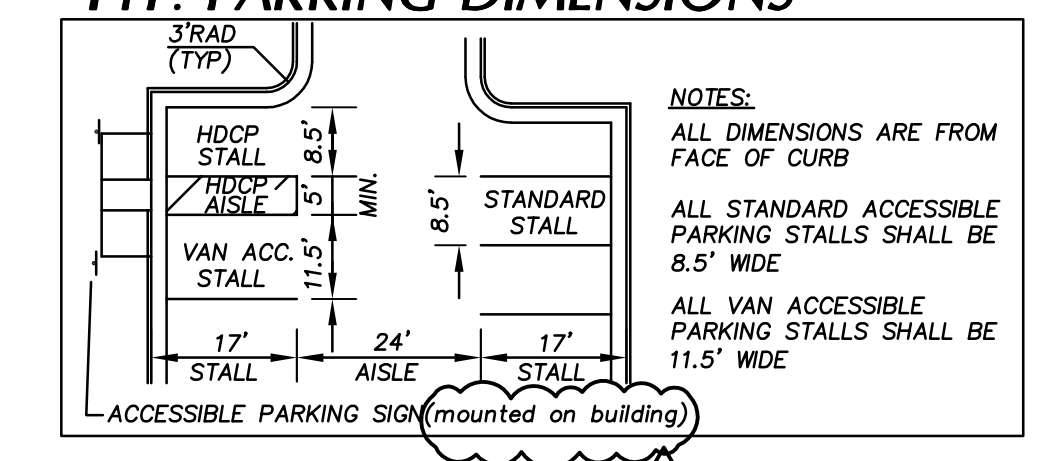
STANDARD DIRECTIONAL ARROW DIAGRAM  
 NTS



ONE-WAY DIRECTIONAL ARROW DIAGRAM  
 NTS



**TYP. PARKING DIMENSIONS**



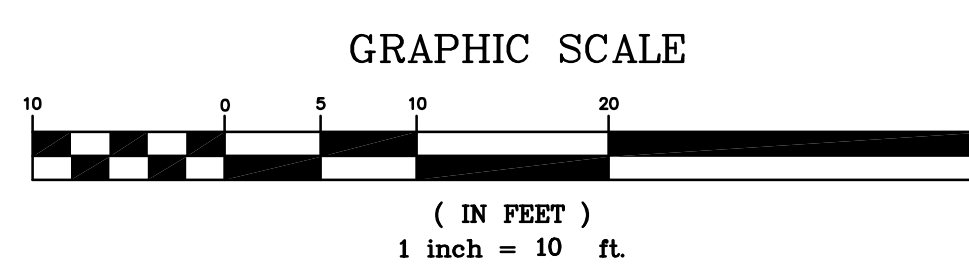
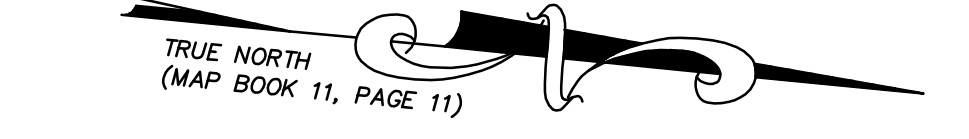
For each open utility cut of City streets, a \$325 permit shall be required from the City prior to occupancy and/or project acceptance.

City of WILMINGTON  
 Public Services Engineering Division  
 APPROVED DRAINAGE PLAN

Date: \_\_\_\_\_ Permit # \_\_\_\_\_  
 Signed: \_\_\_\_\_

City of WILMINGTON  
 Approved Construction Plan

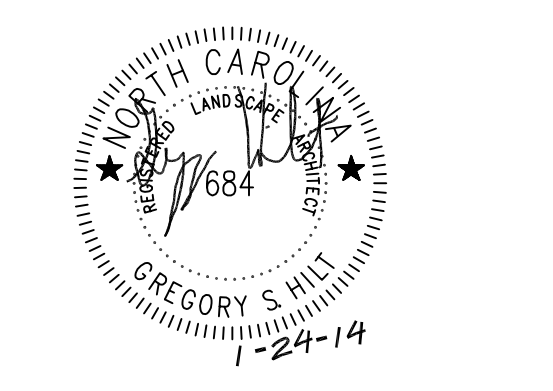
Name \_\_\_\_\_ Date \_\_\_\_\_  
 Planning \_\_\_\_\_  
 Traffic \_\_\_\_\_  
 Fire \_\_\_\_\_



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 PE: C-1595



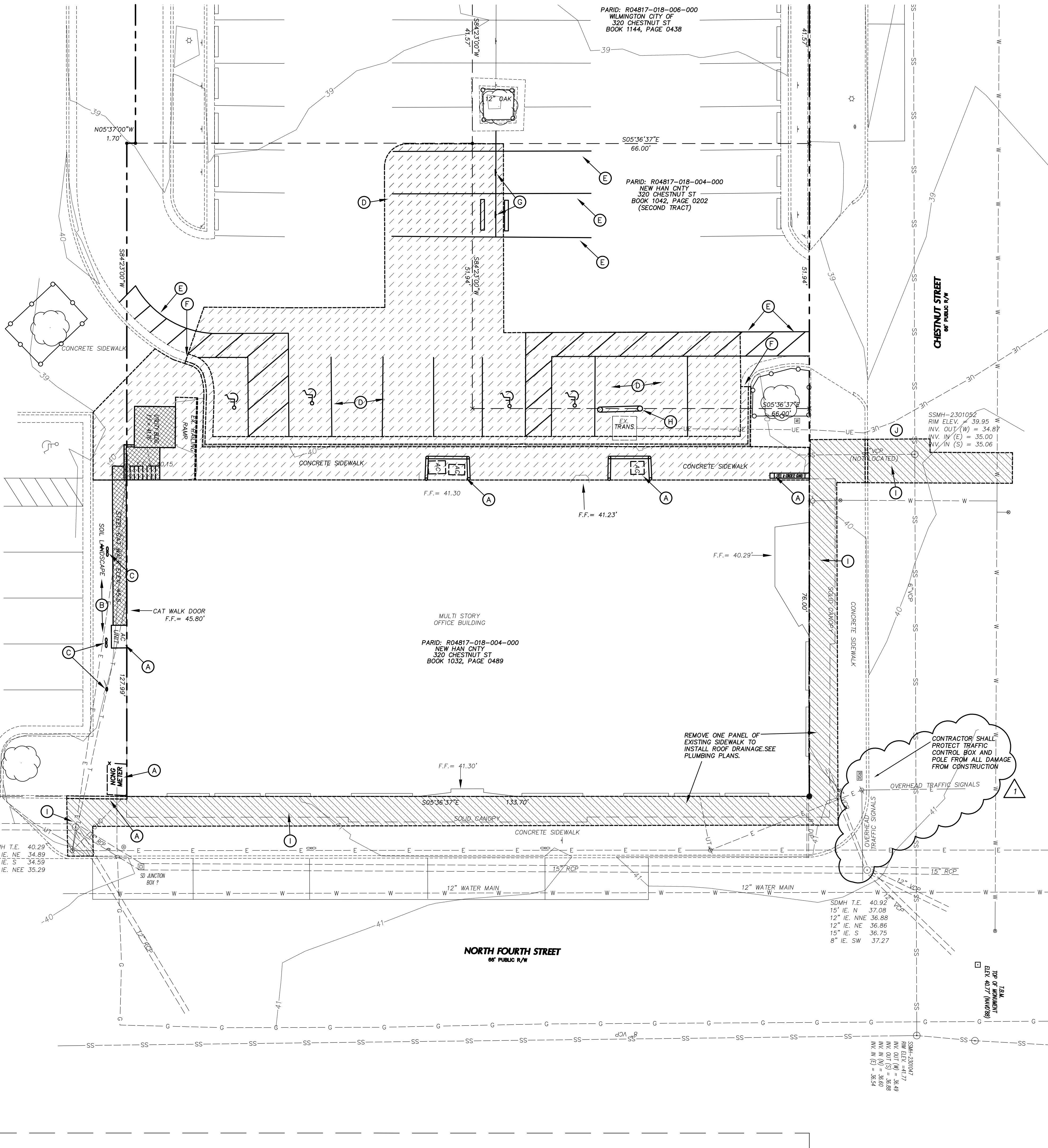
**320 Chestnut Street Additions & Renovations**

Construction Drawings  
 January 24, 2014

- Revisions:
- 1 May 7, 2014 Remove parking space, add bicycle racks.
  - 2 March 31, 2015 Address outstanding TRC Comments.

**SITE STAKING PLAN**

**C1.1**  
 1 of 6



**LEGEND - STRUCTURES/UTILITIES TO REMAIN**

OVERHEAD ELECTRICAL	---	E	LIGHT POLE	☆	LP
UNDERGROUND ELECTRICAL	---	UE	UTILITY POLE	⊗	PP
GAS	---	G	MANHOLE	⊙	MH
SANITARY SEWER	---	SS	CLEAN OUT	⊙	CO
TELEPHONE	---	T	DROP INLET, CATCH BASIN	□	DI, CB
UNDERGROUND TELEPHONE	---	UT	FIRE HYDRANT	⊙	FH
FIRE PROTECTION	---	FP	WATER VALVE	⊙	WV
WATER	---	W	TREE PROTECTION FENCING	⊗	SEE DETAIL SHEET C8.1.
FORCE MAIN	---	FM	INDIVIDUAL TREE TO REMAIN.	⊗	
STORM DRAIN	---	SD			
STEAM	---	ST			
IRRIGATION	---	IW			

**LEGEND - STRUCTURES/UTILITIES TO BE REMOVED**

OVERHEAD ELECTRICAL	---	E	LIGHT POLE	☆	LP
UNDERGROUND ELECTRICAL	---	UE	UTILITY POLE	⊗	PP
GAS	---	G	MANHOLE	⊙	MH
SANITARY SEWER	---	SS	CLEAN OUT	⊙	CO
TELEPHONE	---	T	DROP INLET, CATCH BASIN	□	DI, CB
UNDERGROUND TELEPHONE	---	UT	FIRE HYDRANT	⊙	FH
FIRE PROTECTION	---	FP	WATER VALVE	⊙	WV
WATER	---	W	C&G TO BE REMOVED, PAVEMENT, SIDEWALK, CONCRETE,	▨	
FORCE MAIN	---	FM	BUILDING DEMOLITION, SEE ARCHITECTURAL PLANS.	▨	
STORM DRAIN	---	SD			
STEAM	---	ST			
IRRIGATION	---	IW			
			INDIVIDUAL TREE TO BE REMOVED.	⊗	

- KEY NOTES**
- (A) UTILITY/STRUCTURE TO BE REMOVED (SEE ARCHITECTURAL PLANS).
  - (B) EXISTING SHRUBS & LANDSCAPE AREA TO BE REMOVED.
  - (C) EXISTING SIGNS TO BE REMOVED BY CITY OF WILMINGTON PRIOR TO CONSTRUCTION.
  - (D) SIDEWALK/PAVEMENT/CURB AND GUTTER TO BE REMOVED.
  - (E) REMOVE EXISTING STRIPING AND MILL 1/2". REFER TO STAKING PLAN FOR ADDITIONAL INFORMATION.
  - (F) SAW CUT AND REMOVE EXISTING GUTTER.
  - (G) REMOVE SIGNS.
  - (H) REMOVE BOLLARDS.
  - (I) SIDEWALK/PAVEMENT TO BE REMOVED TO INSTALL NEW UTILITIES AND ROOF DRAINAGE. SEE PLUMBING DRAWINGS FOR INFORMATION REGARDING INSTALLATION OF NEW UTILITIES.
  - (J) REMOVE, STORE AND PROTECT EXISTING CURBING FOR REUSE. REMOVE ONLY AS REQUIRED FOR INSTALLATION OF NEW UTILITIES.
  - (K) TREE PROTECTION FENCING, PROTECT EXISTING TREES FROM DAMAGE, SEE DETAIL SHEET.

- GENERAL NOTES**
1. ALL UTILITIES OR STRUCTURES NOT INDICATED FOR REMOVAL OR MODIFICATION ARE TO REMAIN AND BE PROTECTED FROM DAMAGE.
  2. LOCATE ALL EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION. NOTIFY OWNER OF ANY DISCREPANCIES BETWEEN FIELD CONDITIONS AND THOSE SHOWN ON THE PLAN.
  3. ALL WASTE MATERIAL GENERATED FROM CLEARING AND DEMOLITION ACTIVITIES SHALL BE DISPOSED OF OFF-SITE IN ACCORDANCE WITH ALL APPLICABLE RULES AND REGULATIONS. OWNER HAS FIRST RIGHT OF REFUSAL, CONTRACTOR SHALL DELIVER TO AREA DESIGNATED BY OWNER; OTHERWISE IT IS THE CONTRACTOR'S RESPONSIBILITY TO DISPOSE.
  4. INSTALL TREE PROTECTION FENCING PRIOR TO BEGINNING CLEARING OPERATIONS. CLEAR AS NEEDED WITHIN CONSTRUCTION LIMITS PER SPECIFICATIONS AND DRAWINGS. EXISTING TREES, SHRUBS OR OTHER LANDSCAPE MATERIAL WHICH WILL CONFLICT WITH NEW CONSTRUCTION SHALL BE REMOVED (WHETHER OR NOT SHOWN ON THE DRAWINGS) FOLLOWING APPROVAL OF OWNER/ARCHITECT. COORDINATE WITH OWNER'S GROUND'S DEPARTMENT ON SALVAGE OF REMOVED LANDSCAPE MATERIAL. BY SUBMITTING A BID, CONTRACTOR ACKNOWLEDGES THAT THE SITE HAS BEEN INVESTIGATED TO DETERMINE TYPE, SIZE AND QUANTITY OF CLEARING REQUIRED FOR CONSTRUCTION. COORDINATE TREE PROTECTION FENCING WITH NEW HANOVER COUNTY GROUND'S DEPARTMENT.
  5. ALL PAVEMENT OR CONCRETE TO BE REMOVED SHALL BE SAW CUT TO PROVIDE A STRAIGHT AND UNIFORM JOINT WITH NEW CONSTRUCTION. ANY EXISTING PAVEMENT, SIDEWALK, CURB & GUTTER, ETC. THAT MUST BE REMOVED TO ALLOW NEW CONSTRUCTION SHALL BE REMOVED AND REPAIRED PER THE SPECIFICATIONS AND DETAILS OR TO MATCH EXISTING CONDITIONS (WHETHER OR NOT SHOWN ON THE DRAWINGS TO BE REMOVED). UTILITY INSTALLATIONS MAY UTILIZE OPEN CUT OF PAVEMENTS UNLESS INDICATED OTHERWISE.
  6. LIMITS OF PAVEMENT REMOVAL SHOWN ARE MINIMUM REQUIRED. ADDITIONAL PAVEMENT MAY BE REMOVED AND REPLACED AS DEEMED NECESSARY BY THE CONTRACTOR FOR CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER. ALL EXISTING PAVEMENT & STRIPING DAMAGED DURING CONSTRUCTION SHALL BE REPLACED OR REPAIRED AT NO ADDITIONAL COST TO THE OWNER.
  7. VERIFY ALL ILLUSTRATED KNOWN UNDERGROUND ELEMENTS. EXERCISE REASONABLE EFFORTS TO PROTECT ANY UNKNOWN UNDERGROUND ELEMENTS. NOTIFY THE ARCHITECT IMMEDIATELY IF UNKNOWN ELEMENTS ARE DISCOVERED THAT WOULD NECESSITATE MODIFICATION TO THE PROPOSED DESIGN.
  8. PROTECT ALL ADJACENT PROPERTIES, THE GENERAL PUBLIC AND ALL OF THE OWNER'S FACILITIES. SHOULD DAMAGES OCCUR, NOTIFY ARCHITECT IMMEDIATELY.
  9. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE LOCAL, STATE AND OSHA REGULATIONS.

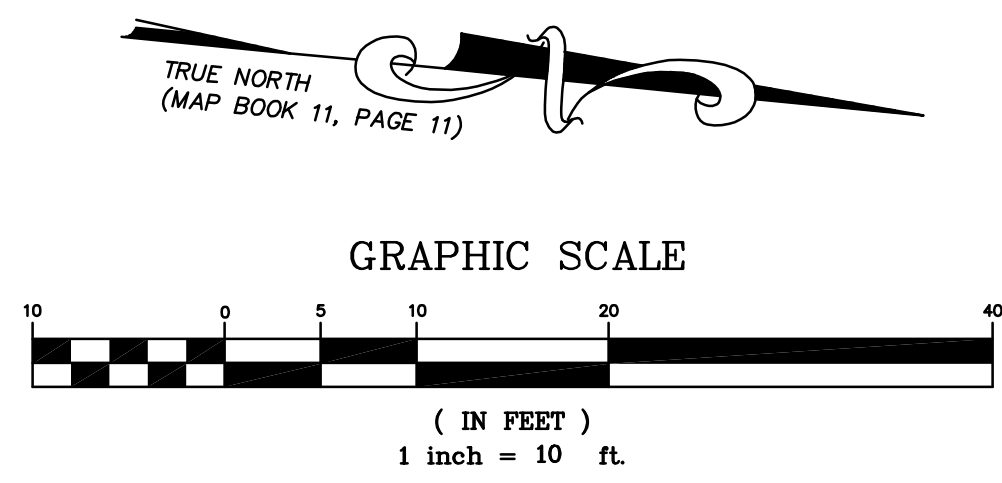
City of Wilmington  
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Date: \_\_\_\_\_ Permit # \_\_\_\_\_  
Signed: \_\_\_\_\_

City of Wilmington  
APPROVED CONSTRUCTION PLAN

Name \_\_\_\_\_ Date \_\_\_\_\_  
Planning \_\_\_\_\_  
Traffic \_\_\_\_\_  
Fire \_\_\_\_\_

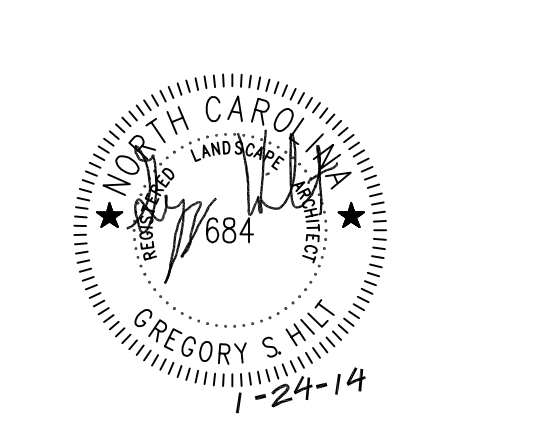
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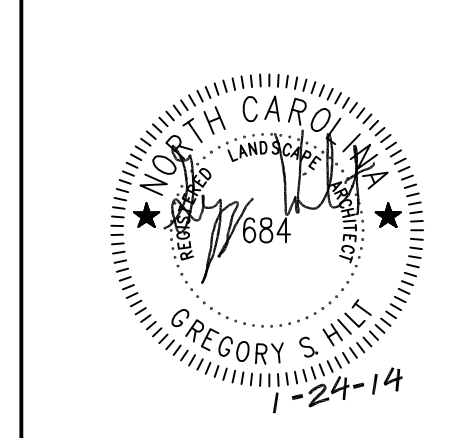
**320 Chestnut Street Additions & Renovations**

Construction Drawings  
January 24, 2014

Revisions:  
1 March 31, 2015  
Address outstanding TRC Comments.

**EXISTING CONDITIONS AND DEMOLITION PLAN**  
**C2.1**

2 of 6  
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**LEGEND**

EXISTING CONTOURS	
FINISH CONTOURS	
EXISTING SPOT ELEVATION	69.3+
PROPOSED SPOT ELEVATION	70.50
PROPOSED SPOT ELEVATION (TOP OF CURB)	57.80
EXISTING STORM PIPE	
TREE PROTECTION FENCE	
TEMPORARY SILT FENCE	

**GRADING GENERAL NOTES**

- ALL SPOT ELEVATIONS INDICATED AT CURB AND GUTTER ARE TO TOP OF CURB, UNLESS OTHERWISE SHOWN. ALL OTHER SPOT ELEVATIONS INDICATE GROUND/PAVEMENT GRADE.
- CONSTRUCTION LIMITS: 0.36 AC. TOTAL DISTURBED AREA: 0.11 AC.
- CONTRACTOR SHALL ADJUST ALL EXISTING VAULTS, MANHOLES, STORM DRAIN STRUCTURES, CLEANOUTS, ETC. TO MATCH FINISH GRADE (WHETHER OR NOT SHOWN ON THE DRAWINGS).
- ALL BACKFILL, COMPACTION, SOILS TESTING, ETC. SHALL BE PERFORMED BY THE OWNERS INDEPENDENT TESTING LABORATORY (SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION).
- ALL STORM DRAIN PIPES SHALL BE PROTECTED WITH STONE FILTER PROTECTION AFTER STOPPAGE OF WORK EACH DAY. SEE DETAIL SHEET.
- EXISTING VEGETATION WITHIN TREE PROTECTION AREAS SHALL REMAIN UNDISTURBED, UNLESS NOTED OTHERWISE.
- THE GRADING CONTRACTOR SHALL COMPLY WITH ALL STATE CODES IN OBSERVING EROSION CONTROL MEASURES BOTH ON AND OFF-SITE.
- THE GRADING CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL DEVICES AFTER EACH RAINFALL EVENT OR AS DIRECTED BY STATE AUTHORITIES OR THE ARCHITECT.
- THE GRADING CONTRACTOR SHALL BE RESPONSIBLE FOR OFF-SITE DISPOSAL OF ALL CLEARING AND GRADING WASTE MATERIALS GENERATED DURING HIS PHASE OF WORK AND FOR OBTAINING ALL APPLICABLE PERMITS FOR OFF-SITE STOCKPILES AND/OR WASTE AREAS.
- ANY AND ALL LANDSCAPING AND EXISTING TREES & SHRUBS TO REMAIN WHICH ARE DAMAGED DURING GRADING OPERATIONS SHALL BE REPLACED AT NO ADDITIONAL COST TO THE OWNER.

**EROSION CONTROL GENERAL NOTES**

- THE CONTRACTOR SHALL COMPLY WITH ALL STATE AND LOCAL CODES IN OBSERVING EROSION CONTROL MEASURES BOTH ON AND OFF SITE. ALL OFF-SITE SOIL BORROW AND WASTE SITES SHALL BE PROPERLY PERMITTED FOR SUCH ACTIVITIES.
- THE CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL DEVICES AFTER EACH RAINFALL EVENT OR AS DIRECTED BY LOCAL AUTHORITIES OR ARCHITECT.
- ALL OPEN STORM PIPES SHALL BE PROTECTED WITH STONE FILTER PROTECTION AFTER WORK STOPPAGE EACH DAY.
- ALL STORM DRAINAGE PIPES SHALL BE THOROUGHLY FLUSHED OF ALL SEDIMENT FOLLOWING SITE STABILIZATION. INTERIOR FLUSHING OF SYSTEM SHALL BE PERFORMED AS NEEDED TO MAINTAIN PROPER FUNCTIONING OF THE SYSTEM.
- SOIL AND OTHER MATERIALS SHALL ONLY BE TEMPORARILY STOCKPILED WITHIN THE CONSTRUCTION LIMITS PROTECTED BY SEDIMENT AND EROSION CONTROL DEVICES AND MEASURES. STOCKPILES SHALL BE STABILIZED AS REQUIRED AS INDICATED IN THE SLOPE & SURFACE STABILIZATION NOTES.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL NCDENR, NEW HANOVER COUNTY STANDARDS AND PROJECT SPECIFICATIONS.

**MAINTENANCE PLAN**

- DURING ALL PHASES OF CONSTRUCTION, GROUND COVER ON EXPOSED SLOPES SHALL BE PROVIDED ACCORDING TO GROUND STABILIZATION TABLE (THIS SHEET) FOLLOWING COMPLETION OF ANY PHASE OF GRADING.
- FINAL PERMANENT GROUND COVER FOR ALL DISTURBED AREAS SHALL BE PROVIDED ON ALL DISTURBED OR DEVELOPMENT AREAS ACCORDING TO GROUND STABILIZATION TABLE (THIS SHEET) FOLLOWING COMPLETION OF CONSTRUCTION.
- THE ABOVE REQUIREMENTS ARE THE MINIMUM NECESSARY TO MEET EROSION AND SEDIMENT CONTROL AND SCHEDULES WHICH MAY EXCEED THOSE ABOVE. REGULATIONS. THE CONTRACT DOCUMENTS INCLUDE ADDITIONAL SEEDING AND STABILIZATION REQUIREMENTS.

**SLOPE & SURFACE STABILIZATION**

GROUND STABILIZATION SHALL BE PROVIDED ON ALL DISTURBED AREAS ACCORDING TO FOLLOWING SCHEDULE:

SITE AREA DESCRIPTION	GROUND STABILIZATION	
	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).

EXTENSIONS OF TIME MAY BE APPROVED BY THE PERMITTING AUTHORITY BASED ON WEATHER OR OTHER SITE-SPECIFIC CONDITIONS THAT MAKE COMPLIANCE IMPRACTICABLE (SECTION 11.2(2) (b)).

THE ABOVE REQUIREMENTS ARE THE MINIMUM NECESSARY TO MEET EROSION AND SEDIMENT CONTROL REGULATIONS. THE CONTRACT DOCUMENTS INCLUDE ADDITIONAL SEEDING AND STABILIZATION REQUIREMENTS AND SCHEDULES WHICH MAY EXCEED THOSE ABOVE.

INSTALL SLOPE EROSION CONTROL MATTING FOR TEMPORARY STABILIZATION DURING THE ESTABLISHMENT OF VEGETATIVE COVER ON ALL STEEP SLOPES (3:1 OR STEEPER). REFER TO SPECIFICATION SECTION 311000 FOR MATERIAL SPECIFICATIONS. INSTALL MATTING PER MANUFACTURER'S INSTRUCTIONS.

INSTALL GROUND COVER ON EXPOSED SLOPES WITHIN 21 CALENDAR DAYS FOLLOWING COMPLETION OF ANY PHASE OF GRADING; PERMANENT GROUND COVER FOR ALL DISTURBED AREAS WITHIN 15 WORKING DAYS OR 90 CALENDAR DAYS (WHICHEVER IS SHORTER) FOLLOWING COMPLETION OF CONSTRUCTION OR DEVELOPMENT.

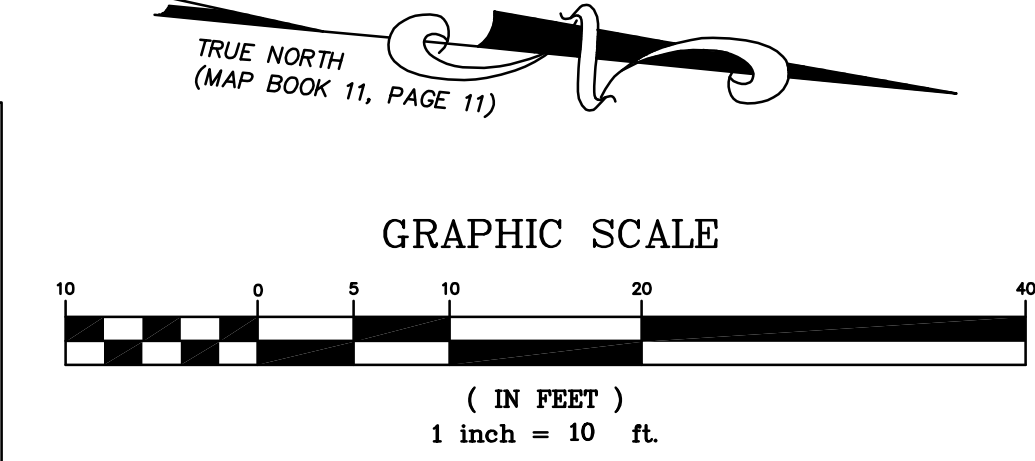
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NORTH CAROLINA  
Public Services Engineering Division  
APPROVED DRAINAGE PLAN

Date: \_\_\_\_\_ Permit #: \_\_\_\_\_  
Signed: \_\_\_\_\_

**WILMINGTON**  
NORTH CAROLINA  
Approved Construction Plan

Name: \_\_\_\_\_ Date: \_\_\_\_\_  
Planning: \_\_\_\_\_  
Traffic: \_\_\_\_\_  
Fire: \_\_\_\_\_



320 Chestnut Street  
Additions & Renovations

Construction Drawings  
January 24, 2014

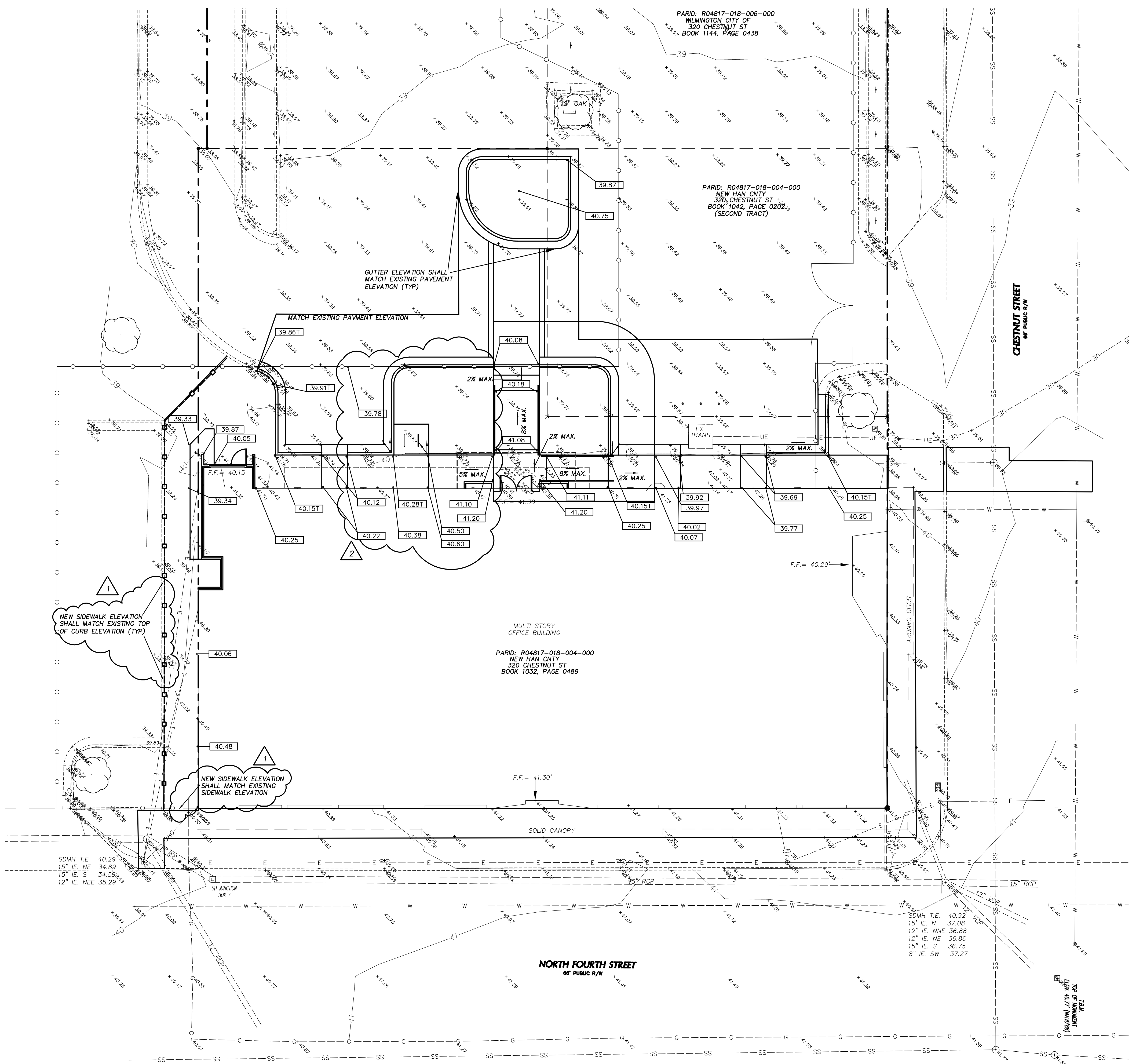
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Add elevation notes per Engineering comment
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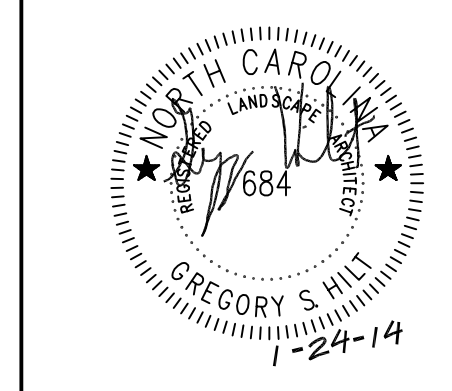
**SITE GRADING AND EROSION CONTROL PLAN**

**C3.1**

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**PLANT LIST**

KEY	QTY.	PLANT NAME	SIZE	REMARKS
<b>TREES, SHRUBS AND GROUNDCOVERS</b>				
BB	393	BIG BLUE LIRIOPE LIRIOPE MUSCARI 'BIG BLUE'	5-7 BIBS CONT.	SPACING 12" O.C.
CFL	8	CRIMSON FIRE LOROPETALUM LOROPETALUM CHINENSE 'CRIMSON FIRE'	15"-18" HT. CONT.	FULL PLANTS SPACING 3' O.C.
CM	1	CRAPE MYRTLE LAGERSTROEMIA INDICA x FAURIEI 'MUSKOGEE'	8'-9" HT. CONT.	J-5 TRUNK SPECIMEN
IH	9	SNOW WHITE INDIAN HAWTHORN RHAPHILOPIS UMBELLATA 'SNOW WHITE'	15"-18" HT CONT.	FULL PLANTS MATCHING 42" O.C.
KOR	8	DOUBLE KNOCK OUT ROSE ROSA 'RADTKO'	15"-18" HT CONT.	FULL PLANTS MATCHING 42" O.C.
LGM	1	LITTLE GEM MAGNOLIA MAGNOLIA GRANDIFLORA 'LITTLE GEM'	2" CAL. 8'-10" HT., B&B	FULL CROWN, MATCHING, STRAIGHT TRUNK
LO	1	LIVE OAK QUERUS VIRGINIANA	2" CAL. 10'-12" HT., B&B	FULL CROWN, MATCHING, STRAIGHT TRUNK

GRAPHIC SYMBOLS SUPERSEDE WRITTEN QUANTITIES WHERE DISCREPANCIES OCCUR.

**LANDSCAPE NOTES**

- LOCATE ALL EXISTING UTILITIES PRIOR TO INSTALLATION OF PLANT MATERIAL. NOTIFY OWNER OF ANY DISCREPANCIES BETWEEN FIELD CONDITIONS AND THOSE SHOWN ON THE PLAN.
- VERIFICATION OF TOTAL QUANTITIES AS SHOWN ON THE PLANT LIST SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND THE TOTAL QUANTITIES SHALL BE AS SHOWN ON THE PLAN.
- ALL PLANT MATERIAL SHALL CONFORM WITH THE STANDARDS SET FORTH BY THE AMERICAN ASSOCIATION OF NURSEYMEN AND THE WRITTEN SPECIFICATIONS.
- PLANTING BEDS TO BE MULCHED WITH A MINIMUM OF 3" OF TRIPLE SHREDDED HARDWOOD. ALL PLANT GROUPINGS SHALL BE MULCHED AS ONE BED.
- ESTABLISH POSITIVE DRAINAGE IN ALL PLANTING BEDS AND AWAY FROM BUILDINGS.
- APPLY PRE-EMERGENT HERBICIDE TO ALL NEW PLANTING BEDS AT MANUFACTURER'S RECOMMENDED RATE PRIOR TO INSTALLATION OF MULCH.
- DO NOT INSTALL PLANT MATERIAL IN IMPERVIOUS SOILS (i.e. HOLES WHICH, WHEN FILLED WITH WATER, DO NOT COMPLETELY DRAIN WITHIN TWO HOURS.)
- LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR WATERING ALL PLANTS AT HIS COST FROM HIS OWN WATER SOURCE INCLUDING DURING PERIODS OF DROUGHT UNTIL PROJECT ACCEPTANCE. ANY WATERING OR MAINTENANCE REQUIRED AFTER PROJECT ACCEPTANCE SHALL BE AT OWNERS COST.
- GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING ALL EQUIPMENT & SUBCONTRACTORS AWAY FROM PLANTED AREAS. IF DAMAGE OCCURS, THROUGH NO FAULT OF THE OWNER, AREAS SHALL BE RE-PLANTED IMMEDIATELY AT NO ADDITIONAL COST TO THE OWNER. CONTRACTOR SHALL WATER AND MAINTAIN THOSE AREAS UNTIL THEY ARE AT 95-100% COVERAGE OR HAVE PROJECT ACCEPTANCE.
- SUBSTITUTIONS OF PLANT MATERIAL SHALL ONLY BE ACCEPTED 60 DAYS PRIOR TO COMMENCEMENT OF PLANTING OPERATIONS. SUBSTITUTION REQUESTS MUST BE IN WRITING AND WILL ONLY BE ACCEPTED FOR LACK OF AVAILABILITY REASONS WHICH CAN BE SUBSTANTIATED OR FOR SUPERIOR STOCK SUBSTITUTIONS.
- ANY AND ALL LANDSCAPING AND EXISTING TREES & SHRUBS SHOWN TO REMAIN WHICH ARE DAMAGED DURING DEMOLITION OR CONSTRUCTION SHALL BE REPLACED IN KIND BY THE CONTRACTOR UTILIZING A LICENSED LANDSCAPE CONTRACTOR AT NO ADD'L COST TO THE OWNER.

**TOPSOIL**

TOPSOIL IS TO BE PROVIDED FOR THE CONTRACT AND INSTALLED BY THE CONTRACTOR PRIOR TO THE SITE BEING TURNED OVER TO OWNER.

TOPSOIL SHALL BE PREMIXED AND PRESCREENED PRIOR TO PLACING.

TOPSOIL SHALL BE 3 PARTS SANDY-LOAM WITH A pH OF 5.5-6.5 RANGE AND 1 PART COMPOSTED PINE BARK ORGANIC MATERIAL.

A MINIMUM OF 4" TOPSOIL SHALL BE APPLIED IN DISTURBED AREAS AND A MINIMUM OF 12" TOPSOIL IS TO BE APPLIED IN ALL LANDSCAPE PLANT BED AREAS.

PRIOR TO TOPSOIL APPLICATION, THE CONTRACTOR SHALL SCARIFY THE SOIL AREAS WHERE TOPSOIL IS TO BE APPLIED TO A DEPTH OF 1 FOOT AND REMOVE AND HAUL OFF ALL CONSTRUCTION DEBRIS BEFORE SPREADING THE TOPSOIL.

NO SCARIFICATION OR SUBSOLING SHALL BE DONE WITHIN THE DRIFLINE OF ANY EXISTING TREE TO REMAIN.

**TREE PROTECTION**

PRIOR TO ANY CLEARING, GRADING, OR CONSTRUCTION ACTIVITY, TREE PROTECTION FENCING WILL BE INSTALLED AROUND PROTECTED TREES OR GROVES OF TREES, AND NO CONSTRUCTION WORKERS, TOOLS, MATERIALS OR VEHICLES ARE PERMITTED WITHIN THE TREE PROTECTION FENCING. SEE SHEET CS.2 FOR TREE PROTECTION DETAIL.



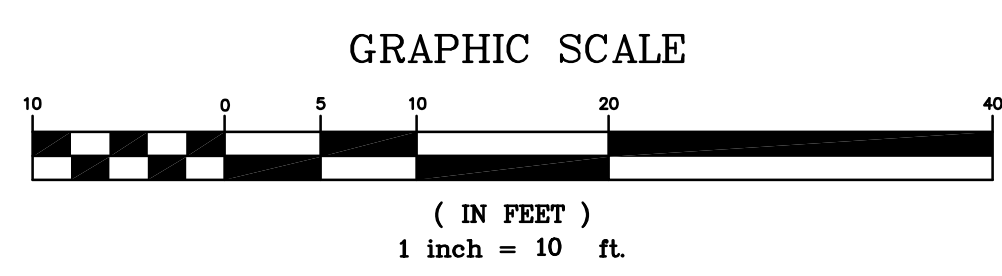
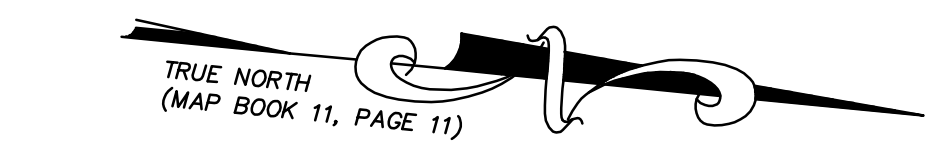
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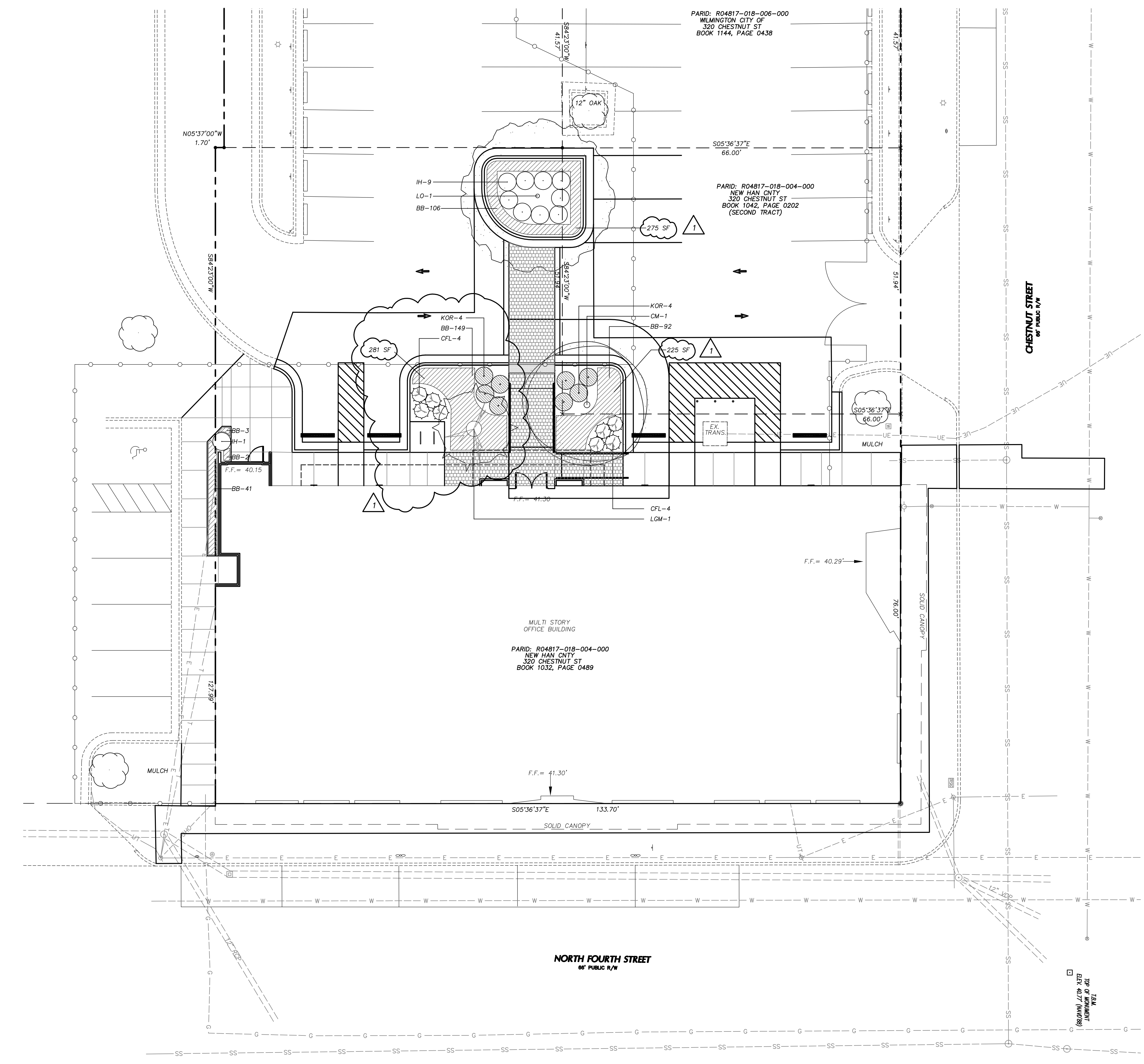
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**SITE PLANTING PLAN**

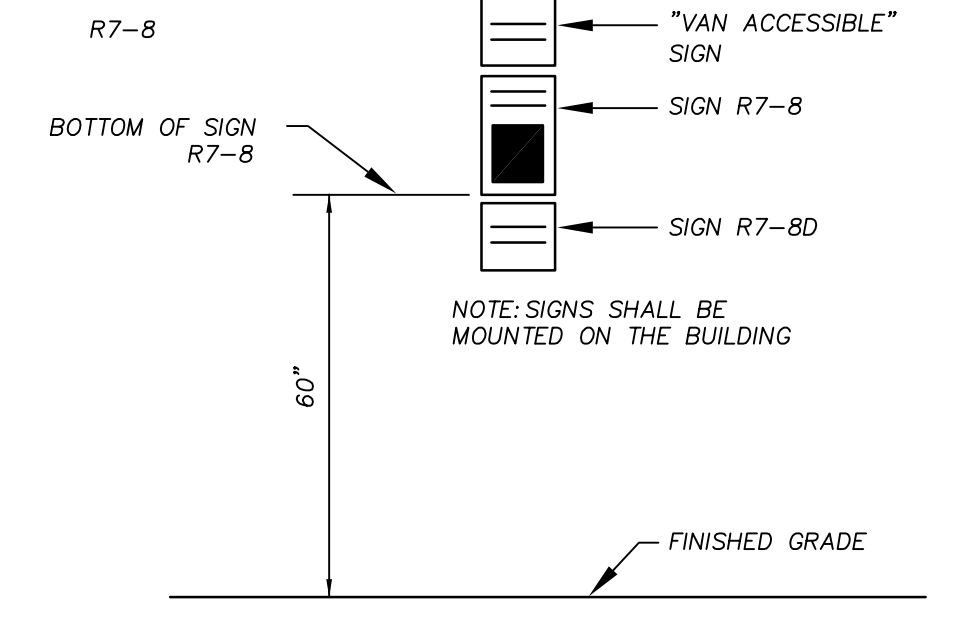
**C4.1**  
4 of 6







NOTE: MAXIMUM PENALTY SHALL BE PER LATEST FINE AMOUNT AS SPECIFIED BY LOCAL AUTHORITIES.



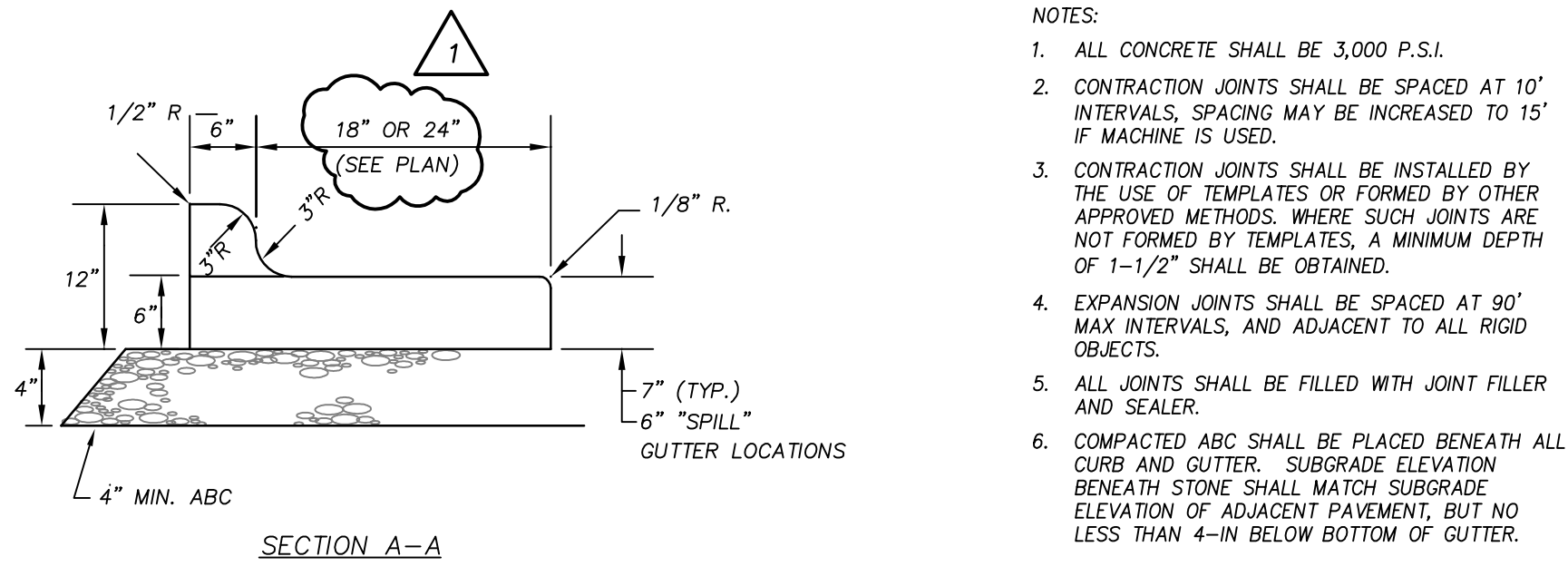
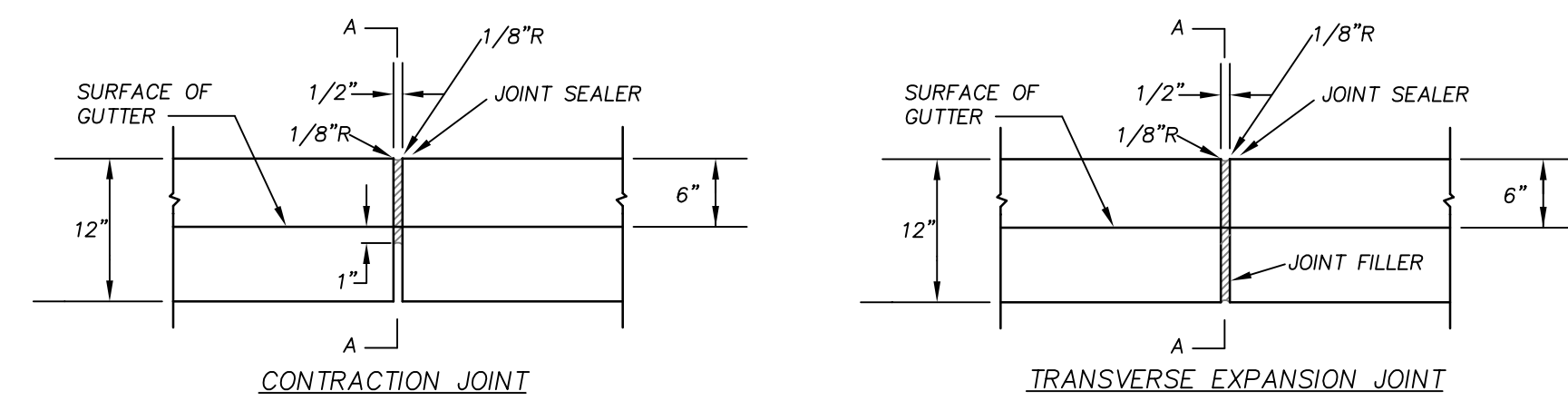
ALL SIGNS SHALL BE PROVIDED AND INSTALLED IN ACCORDANCE WITH LATEST MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES SPECIFICATIONS AND REQUIREMENTS

ACCESSIBLE PARKING SIGNAGE N.T.S.

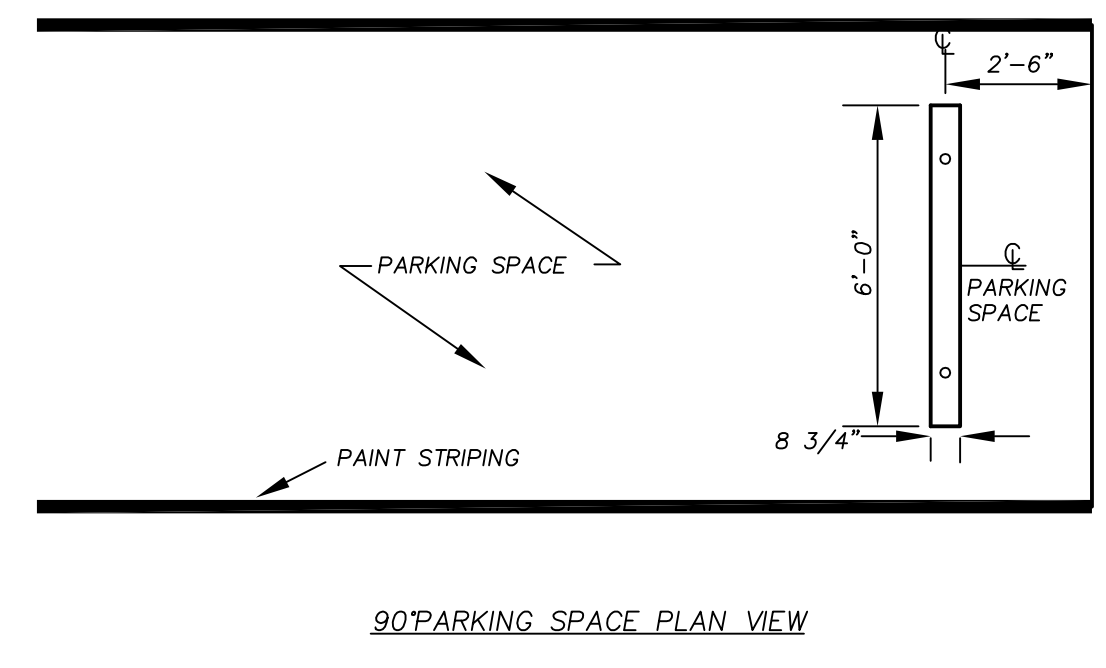
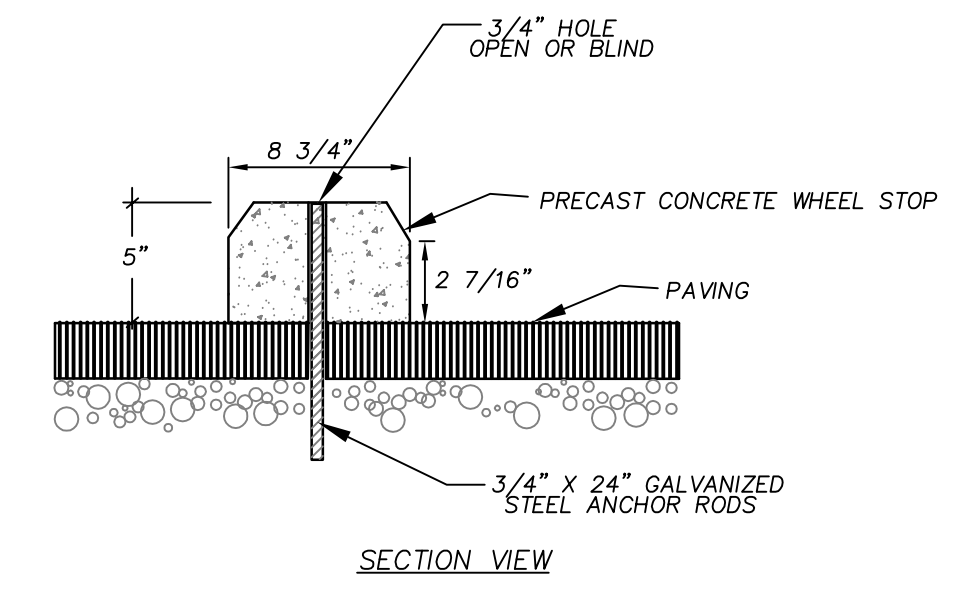
- NOTES:**
- SEE SPECIFICATIONS FOR PROOFROLLING, COMPACTION & TESTING REQUIREMENTS.
  - DETAIL IS FOR ON-SITE PAVING OPERATIONS ONLY.
  - THE CONTRACTOR MAY CHOOSE TO INSTALL INTERMEDIATE COURSES OF PAVEMENT TO STABILIZE THE SITE DURING CONSTRUCTION AT NO ADDITIONAL COST.
- THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE ADEQUATE THICKNESS REQUIRED FOR INTERMEDIATE PAVING. INCREASES IN THE DESIGN PAVEMENT SECTION TO FACILITATE INTERMEDIATE PAVING SHALL BE PROVIDED AT NO ADDITIONAL COST.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY DAMAGES TO SUBGRADE, INSTALLED BASE COURSE AND/OR INTERMEDIATE PAVING PRIOR TO PLACING SUBSEQUENT PAVEMENT LIFTS AT NO ADDITIONAL COST.
  - THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING PAVEMENT DURING ALL PHASES OF WORK. THE FINAL SURFACE OF PAVEMENT SHALL BE FREE OF ALL DEFECTS OR DAMAGE.

ASPHALT PAVEMENT	
TYPE S-9.5A SURFACE COURSE #2	1.5-IN
TYPE S-9.5A SURFACE COURSE #1	-
TYPE I-19.0B INTERMEDIATE COURSE	2"
ABC STONE	8-IN
COMPACTED SUBGRADE	

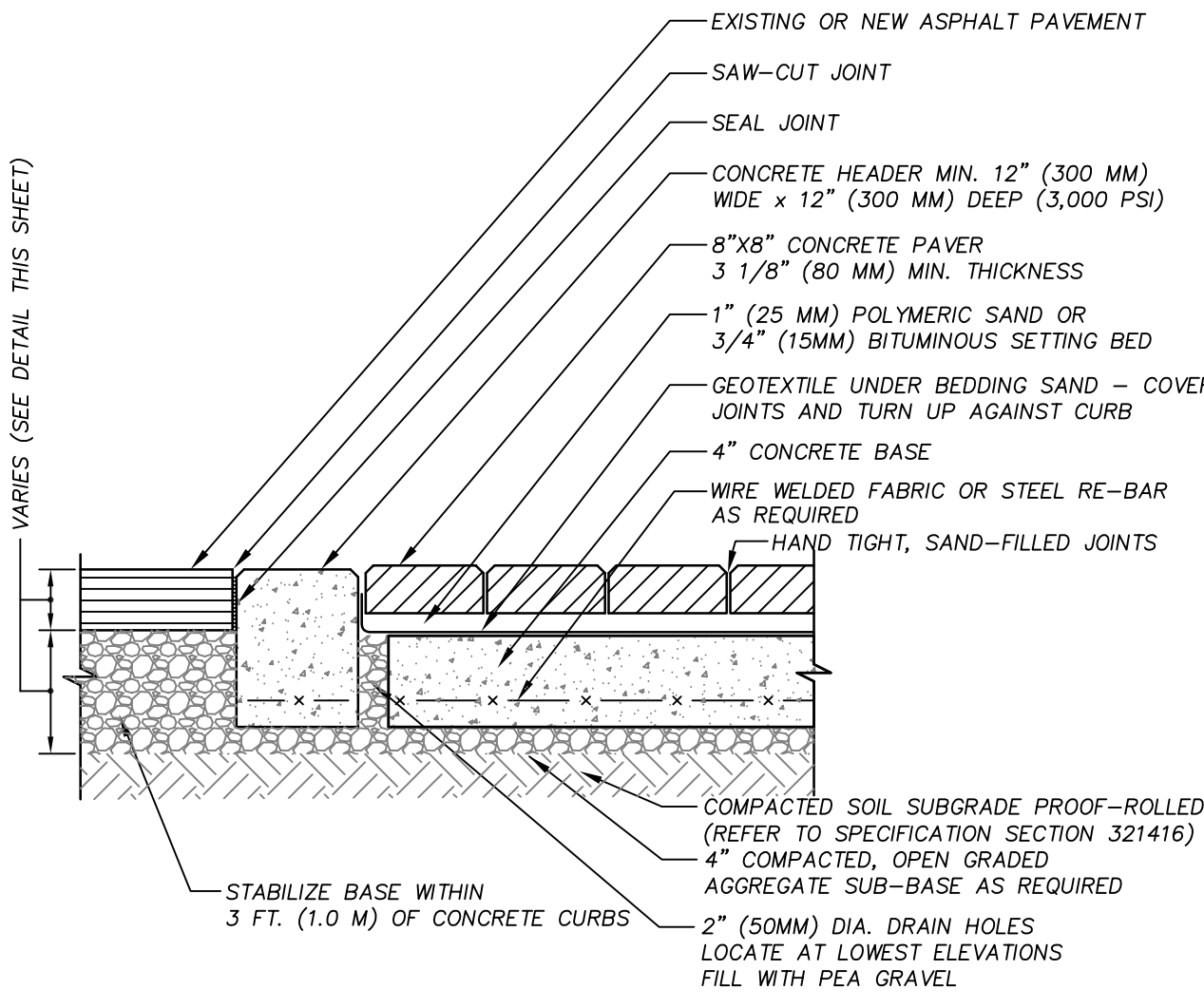
ASPHALT PAVEMENT N.T.S.



STANDARD CONCRETE CURB AND GUTTER N.T.S.

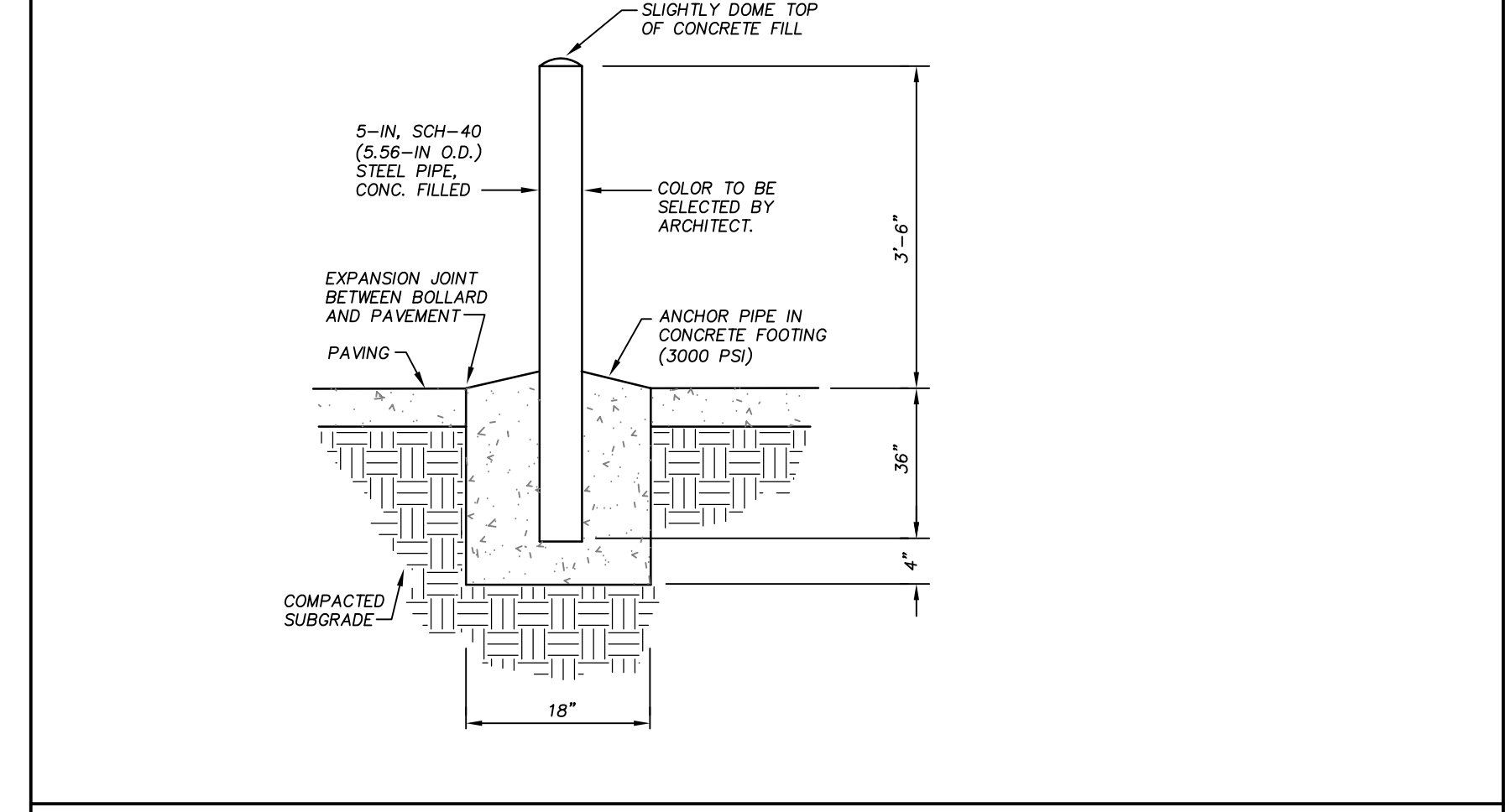


PRE-CAST CONCRETE WHEELSTOP N.T.S.

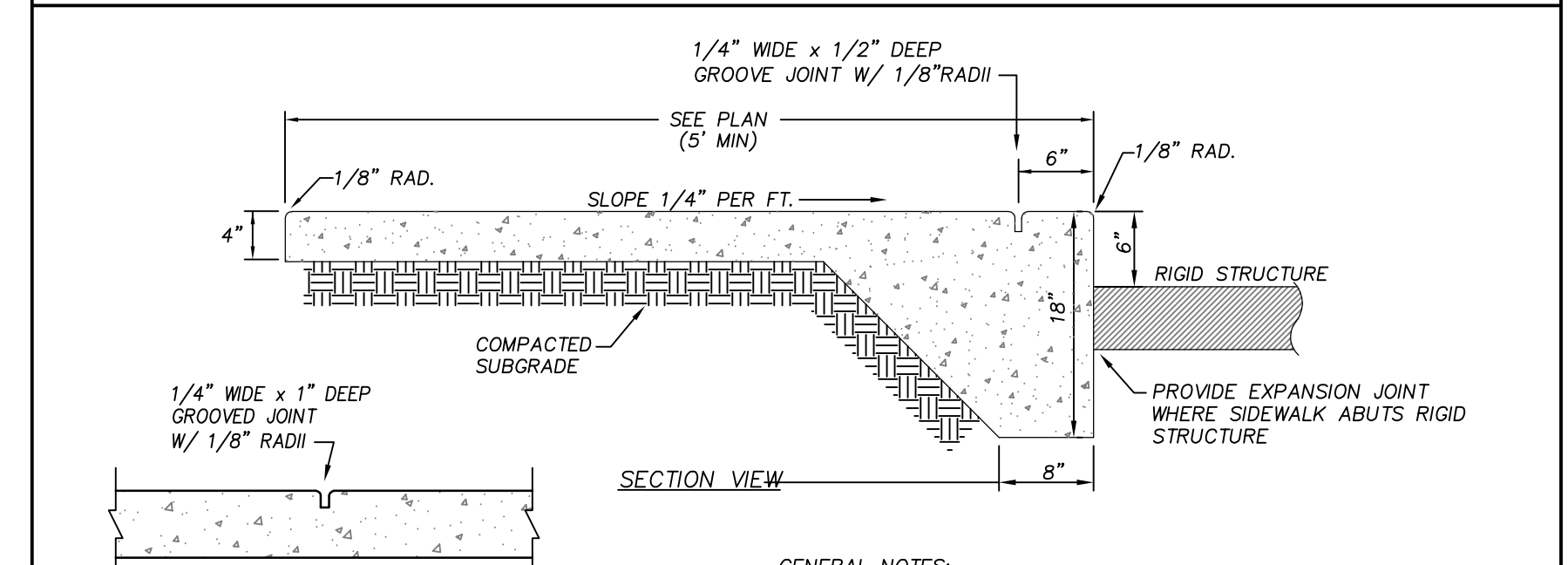


- NOTE:
- BASE THICKNESS AND REINFORCING VARIES WITH TRAFFIC, CLIMATE, AND SUBGRADE CONDITIONS.
  - CONCRETE BASE MINIMUM 2% SLOPE FROM CENTERLINE TO CURB.
  - DO NOT PROVIDE DRAIN HOLES TO SUBGRADE WHEN WATER TABLE IS LESS THAN 2 FT. (0.6 M) FROM TOP OF SOIL SUBGRADE. PROVIDE DRAIN HOLES TO CATCH BASINS.

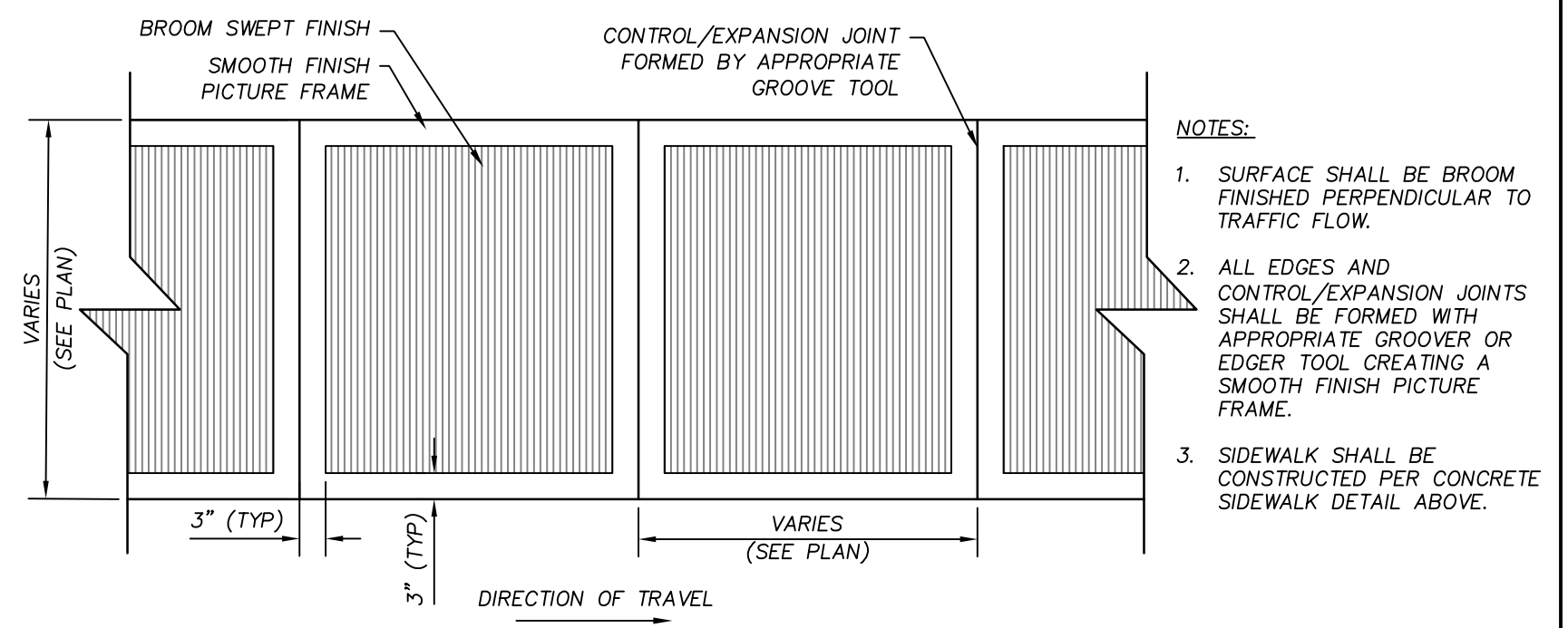
CONCRETE UNIT PAVERS-CROSSWALK N.T.S.



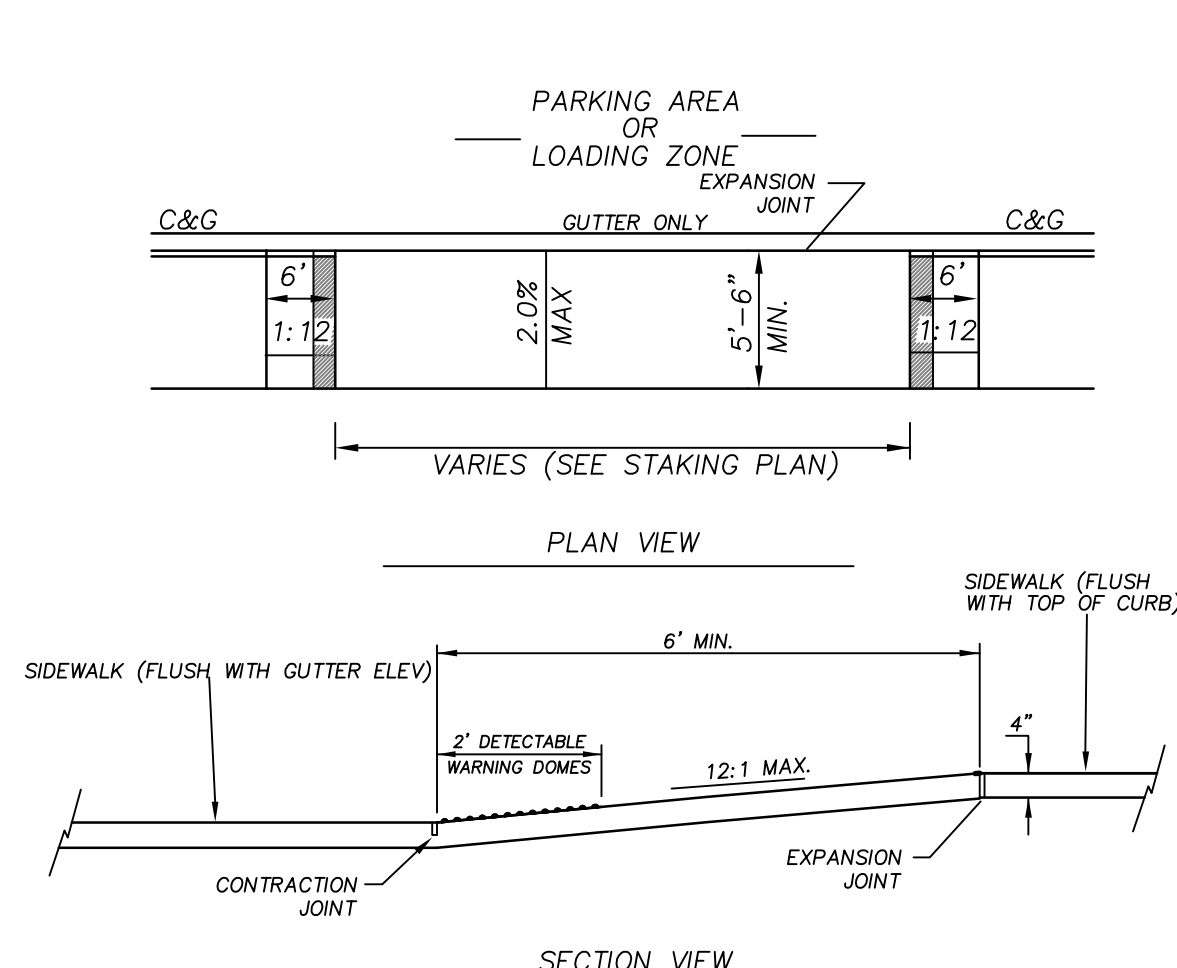
STEEL BOLLARD N.T.S.



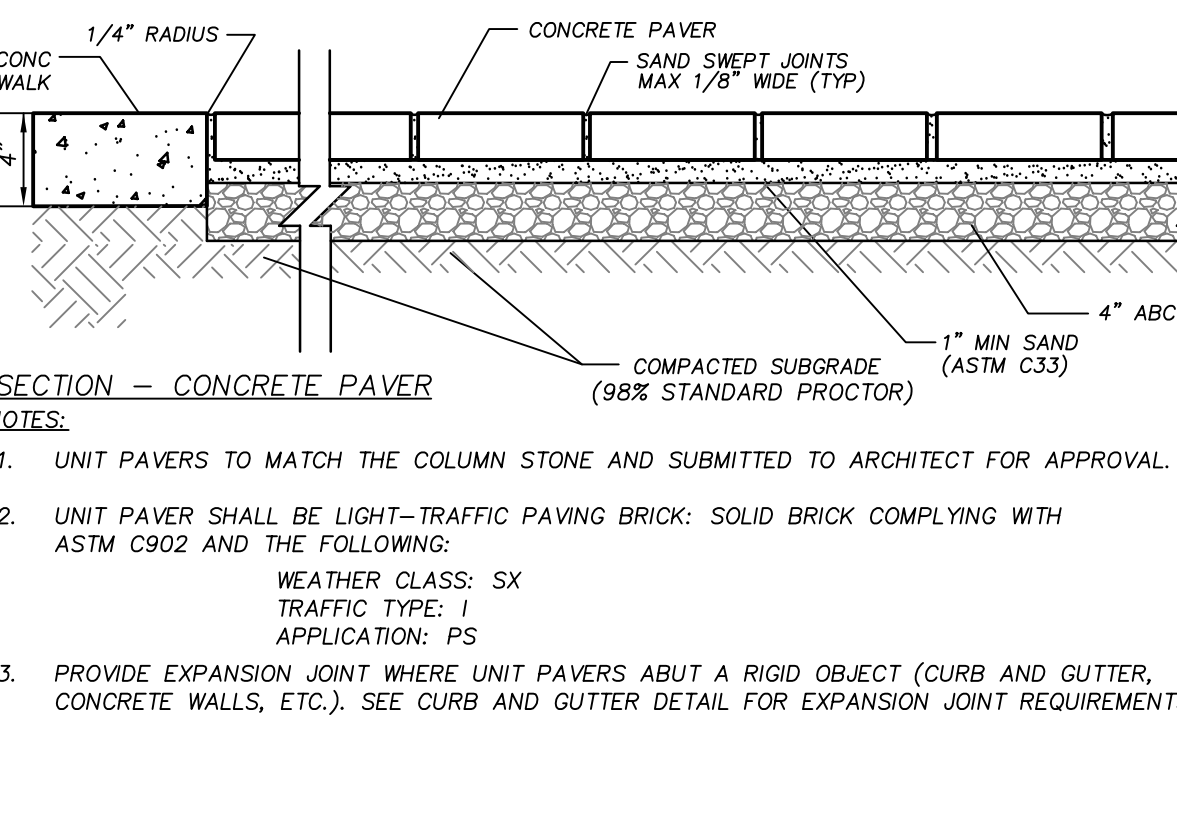
- GENERAL NOTES:**
- PROVIDE GROOVE CONTROL JOINT 1-IN DEEP WITH 1/8-IN RADIUS IN SIDEWALK AT 5' INTERVALS UNLESS INDICATED OTHERWISE.
  - PROVIDE 1/2-IN EXPANSION JOINT AT 50' INTERVALS.
  - PROVIDE 1/2-IN EXPANSION JOINT WHERE THE SIDEWALK ABUTS ANY RIGID STRUCTURE.
  - SEE SPECIFICATIONS FOR ADDITIONAL JOINT SPACING REQUIREMENTS.
  - ALL CONCRETE SHALL BE 3,000 P.S.I.



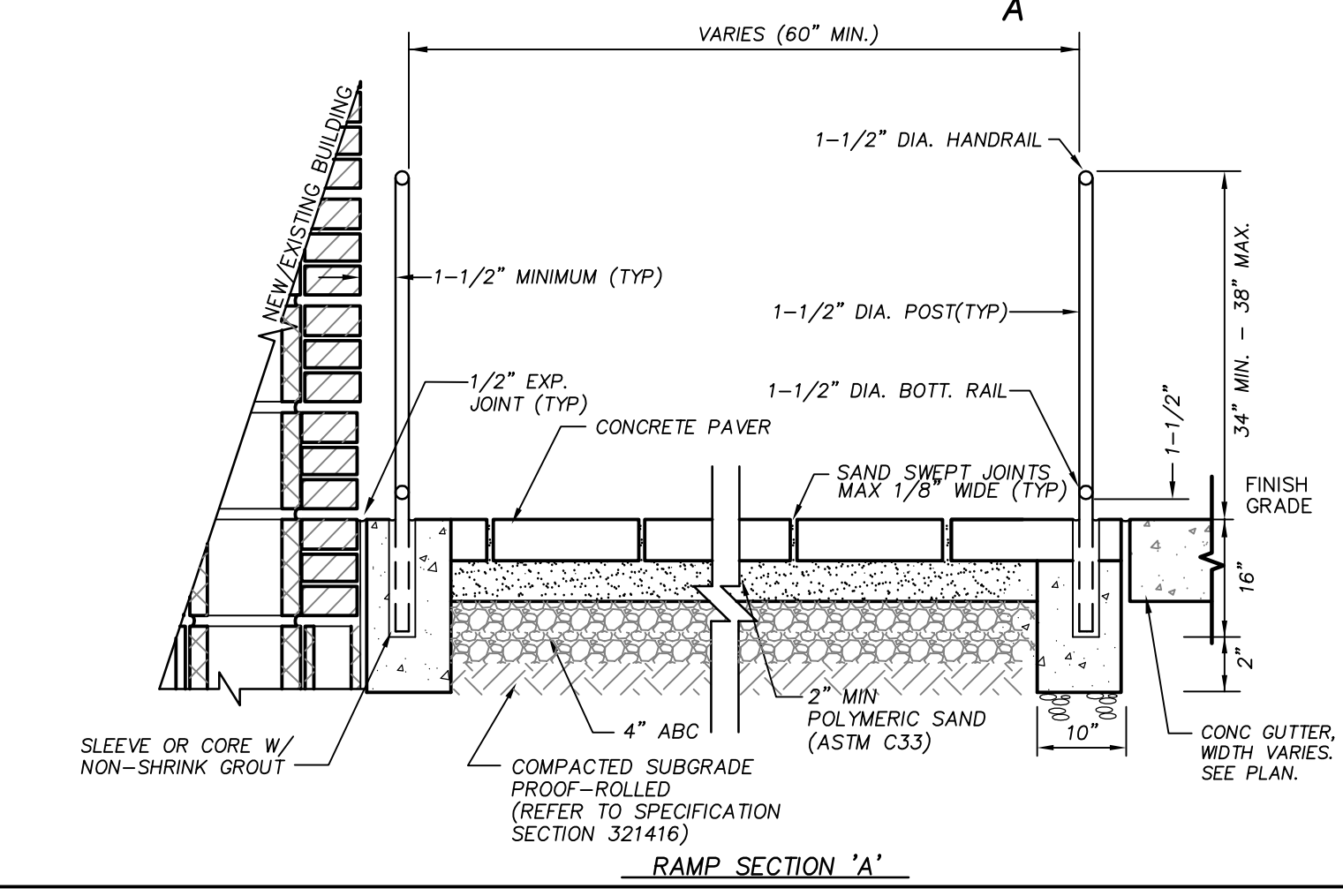
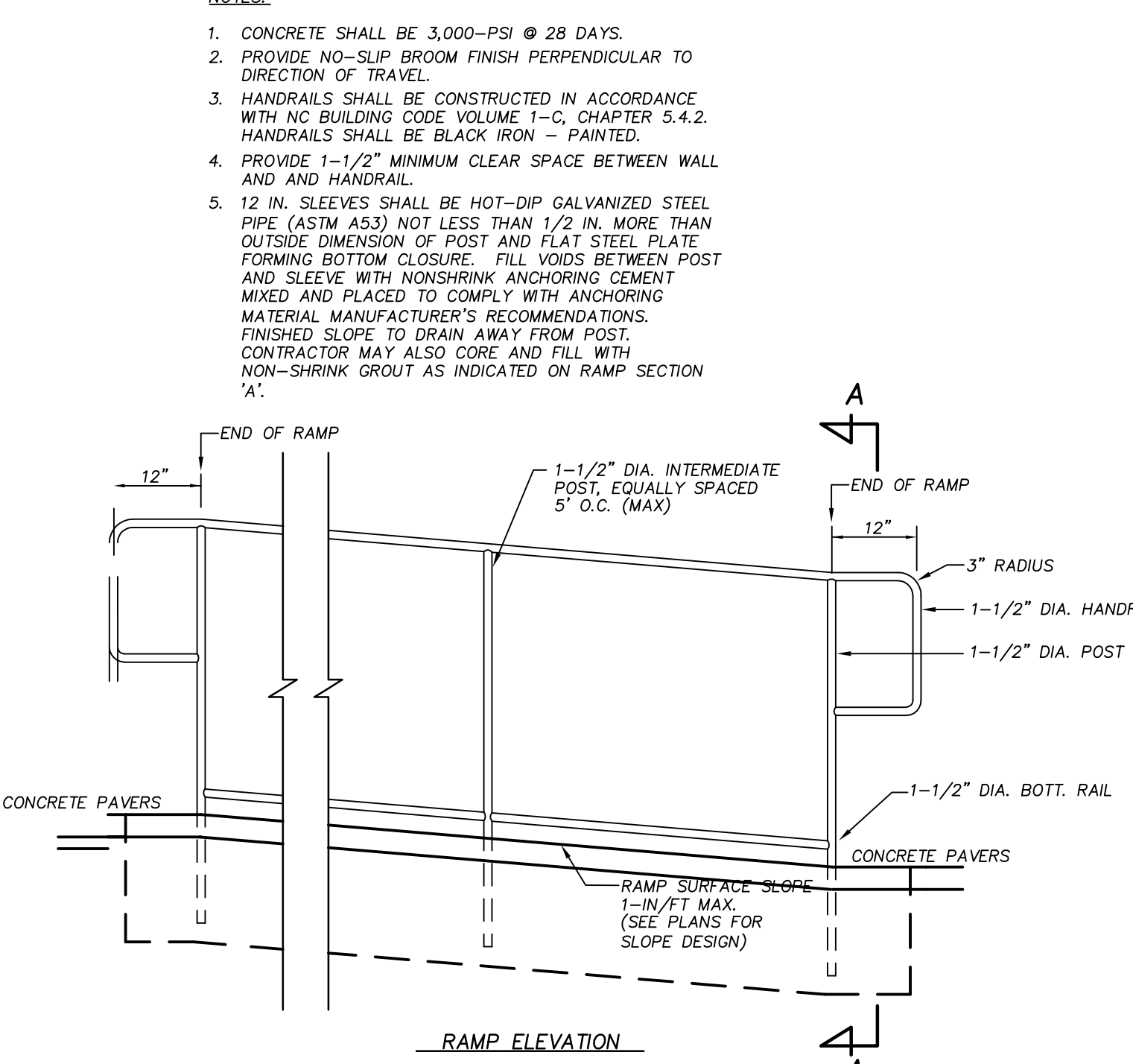
ON-SITE CONCRETE SIDEWALK WITH PICTURE FRAME FINISH N.T.S.



ACCESSIBLE PARKING CURB RAMPS WHERE SIDEWALK IS FLUSH WITH PAVEMENT N.T.S.



CONCRETE UNIT PAVERS N.T.S.



CONCRETE ACCESSIBLE RAMP WITH HANDRAILS N.T.S.

**Approved Construction Plan**

Name \_\_\_\_\_ Date \_\_\_\_\_

Planning \_\_\_\_\_

Traffic \_\_\_\_\_

Fire \_\_\_\_\_

WILMINGTON NORTH CAROLINA  
Public Services Engineering Division  
APPROVED DRAINAGE PLAN

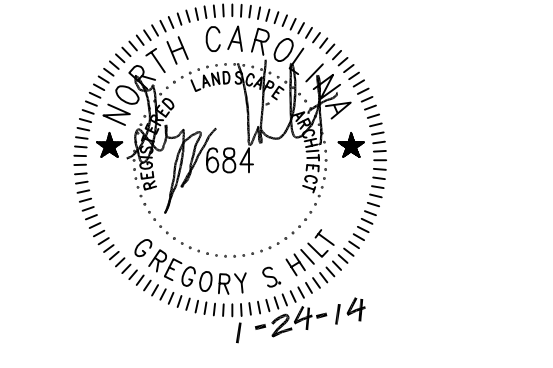
Date: \_\_\_\_\_ Permit # \_\_\_\_\_

Signed: \_\_\_\_\_

**John Sawyer Architects**

124 Market Street  
Wilmington, NC 28401  
910.762.0892  
johnsawyerarchitects.com

**CLH DESIGN, P.A.**  
400 Regency Forest Drive  
Suite 120  
Cary, North Carolina 27518  
Phone: (919) 319-8718  
Fax: (919) 319-7518  
LA: C-106  
PE: C-1585



**320 Chestnut Street Additions & Renovations**

Construction Drawings  
January 24, 2014

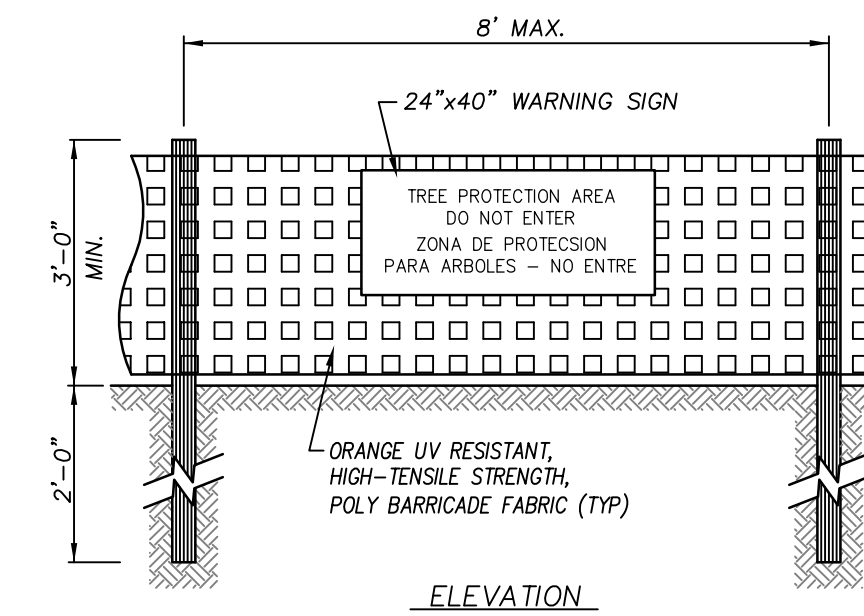
- Revisions:
- April 9, 2014 Reconcile curb dimension per Engineering comment
  - March 31, 2015 Address outstanding TRC comments

**SITE DETAILS**

**C5.1**

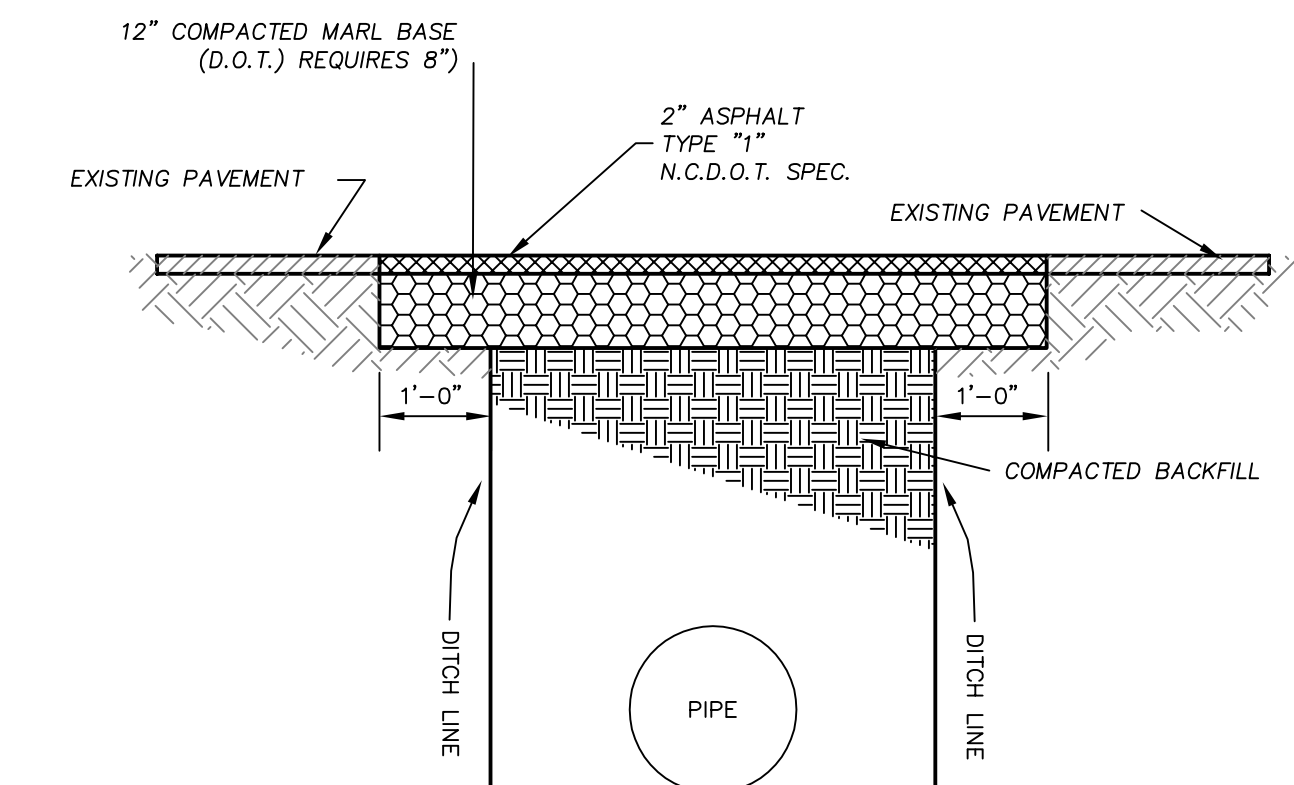
5 of 6

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- NOTES:**
1. INSTALL TREE PROTECTION FENCING PRIOR TO PERFORMING ANY CLEARING OF THE SITE.
  2. WARNING SIGNS TO BE MADE OF DURABLE, WEATHERPROOF MATERIAL.
  3. LETTERS TO BE 3" TALL AND CLEARLY LEGIBLE.
  4. SIGNS SHALL BE PLACED AT 100' MAXIMUM INTERVALS. PLACE A SIGN AT EACH END OF LINEAR TREE PROTECTION AND 100' ON CENTER THEREAFTER.
  5. FOR TREE PROTECTION AREAS LESS THAN 200' IN PERIMETER, PROVIDE NO LESS THAN ONE SIGN PER PROTECTION AREA.
  6. ATTACH SIGNS SECURELY TO FENCE POSTS AND FABRIC.
  7. MAINTAIN TREE PROTECTION FENCE THROUGHOUT DURATION OF PROJECT.

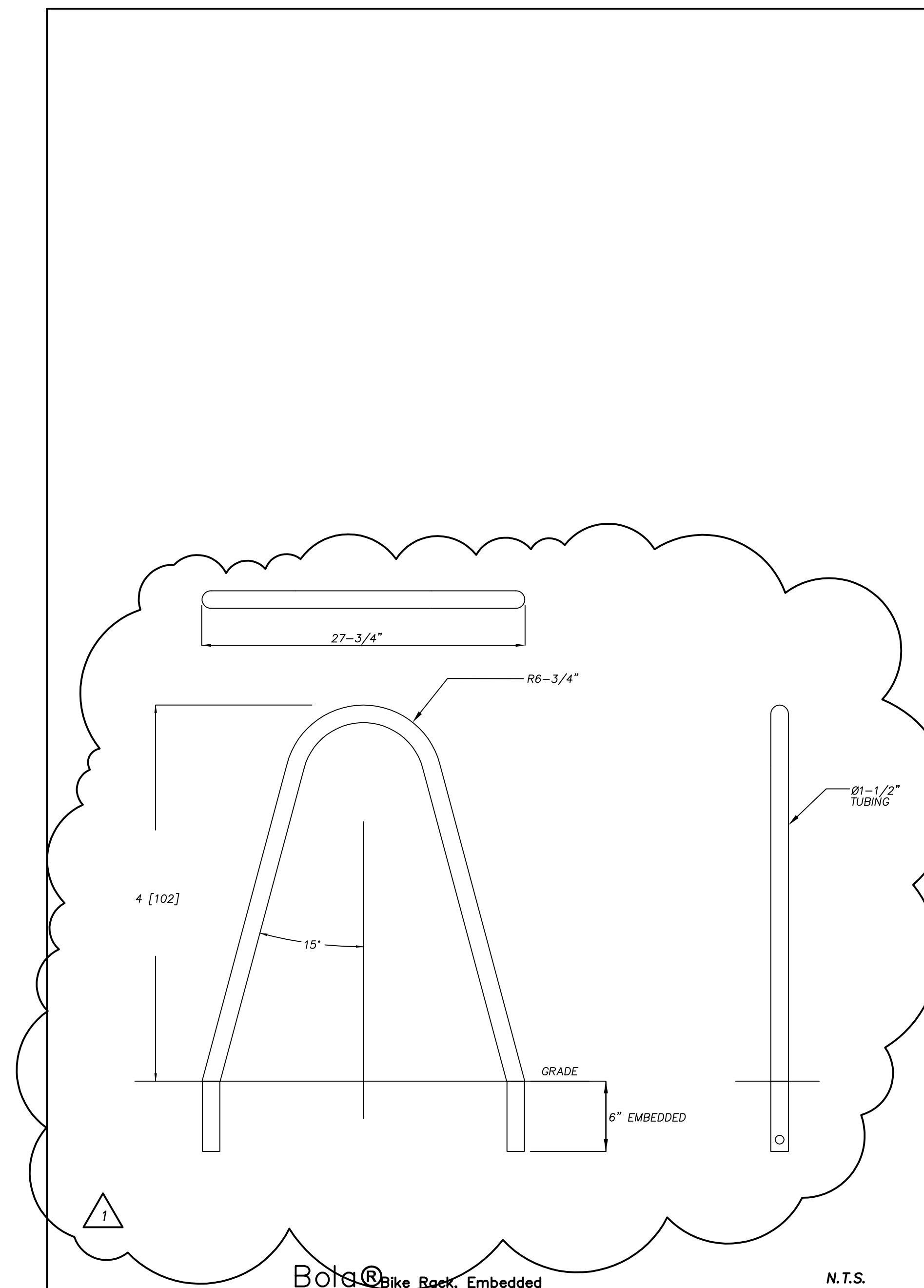
**TREE PROTECTION FENCE** N.T.S.



- NOTES:**
- \* BACKFILL TO BE INSTALLED IN 6" LIFTS (MAXIMUM) AND COMPACTED TO A MINIMUM DENSITY OF 95% AS DETERMINED BY THE MODIFIED A.A.S.H.T.O. STANDARD METHOD T-99
  - \* CUT - BACK TO BE PREPARED AFTER TRENCH BACKFILLING AND COMPACTION

**STANDARD SHOWING METHOD MAKING PAVEMENT REPAIRS WHERE PIPE IS INSTALLED**

**PAVEMENT REPAIRS** SD-1-05 N.T.S.



**WILMINGTON**  
NORTH CAROLINA  
Approved Construction Plan

Name	Date
Planning	
Traffic	
Fire	

**WILMINGTON**  
NORTH CAROLINA  
Public Services Engineering Division  
APPROVED DRAINAGE PLAN

Date: \_\_\_\_\_ Permit # \_\_\_\_\_  
Signed: \_\_\_\_\_

**320 Chestnut Street Additions & Renovations**

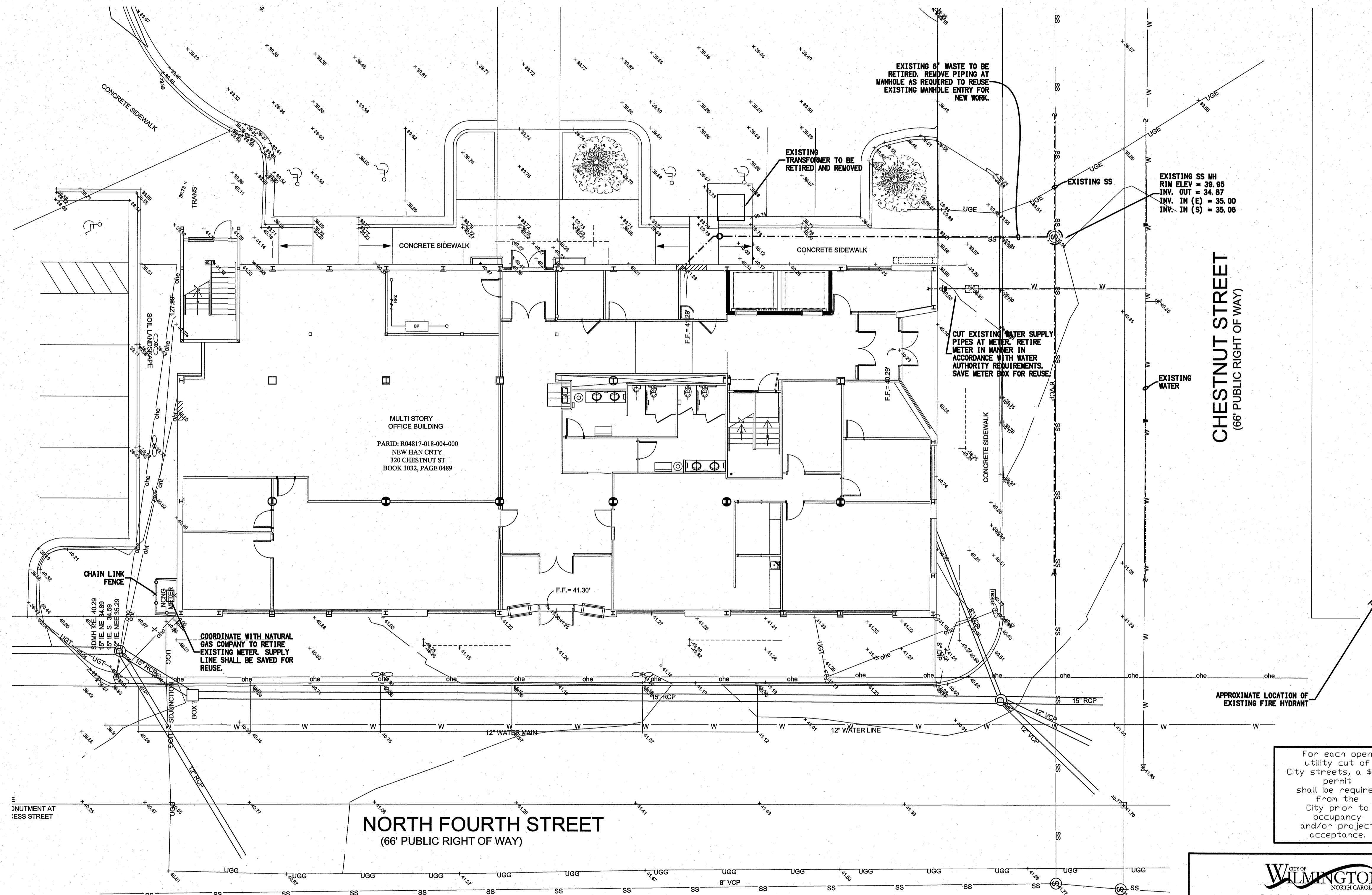
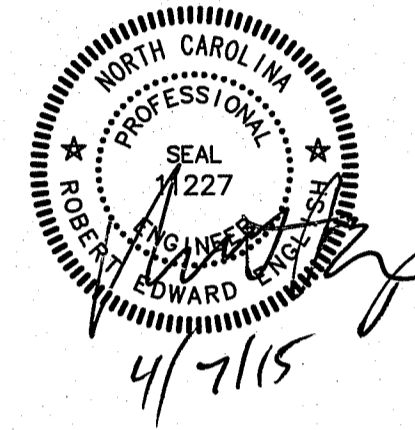
Construction Drawings  
January 24, 2014

Revisions:

1	May 7, 2014 Add bicycle racks.
2	March 31, 2015 Address outstanding TRC comments

**SITE DETAILS**

**C5.2**  
6 of 6



**A** EXISTING UTILITY DEMOLITION SITE PLAN  
SCALE: 1" = 10'

For each open utility cut of City streets, a \$325 permit shall be required from the City prior to occupancy and/or project acceptance.

City of WILMINGTON, NORTH CAROLINA  
Public Services Engineering Division  
APPROVED DRAINAGE PLAN

Date: \_\_\_\_\_ Permit #: \_\_\_\_\_  
Signed: \_\_\_\_\_

City of WILMINGTON, NORTH CAROLINA  
Approved Construction Plan

Name: \_\_\_\_\_ Date: \_\_\_\_\_

Planning: \_\_\_\_\_  
Traffic: \_\_\_\_\_  
Fire: \_\_\_\_\_

320 Chestnut Street  
Renovation  
New Hanover County

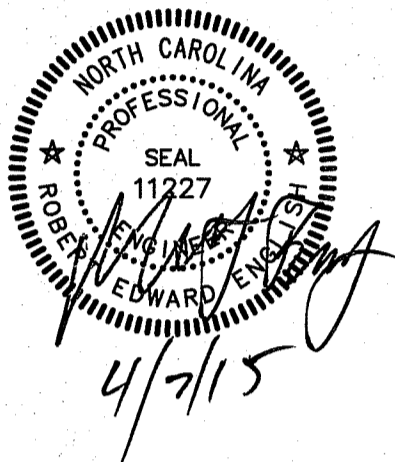
Construction Drawings  
January 24, 2014

Revisions:

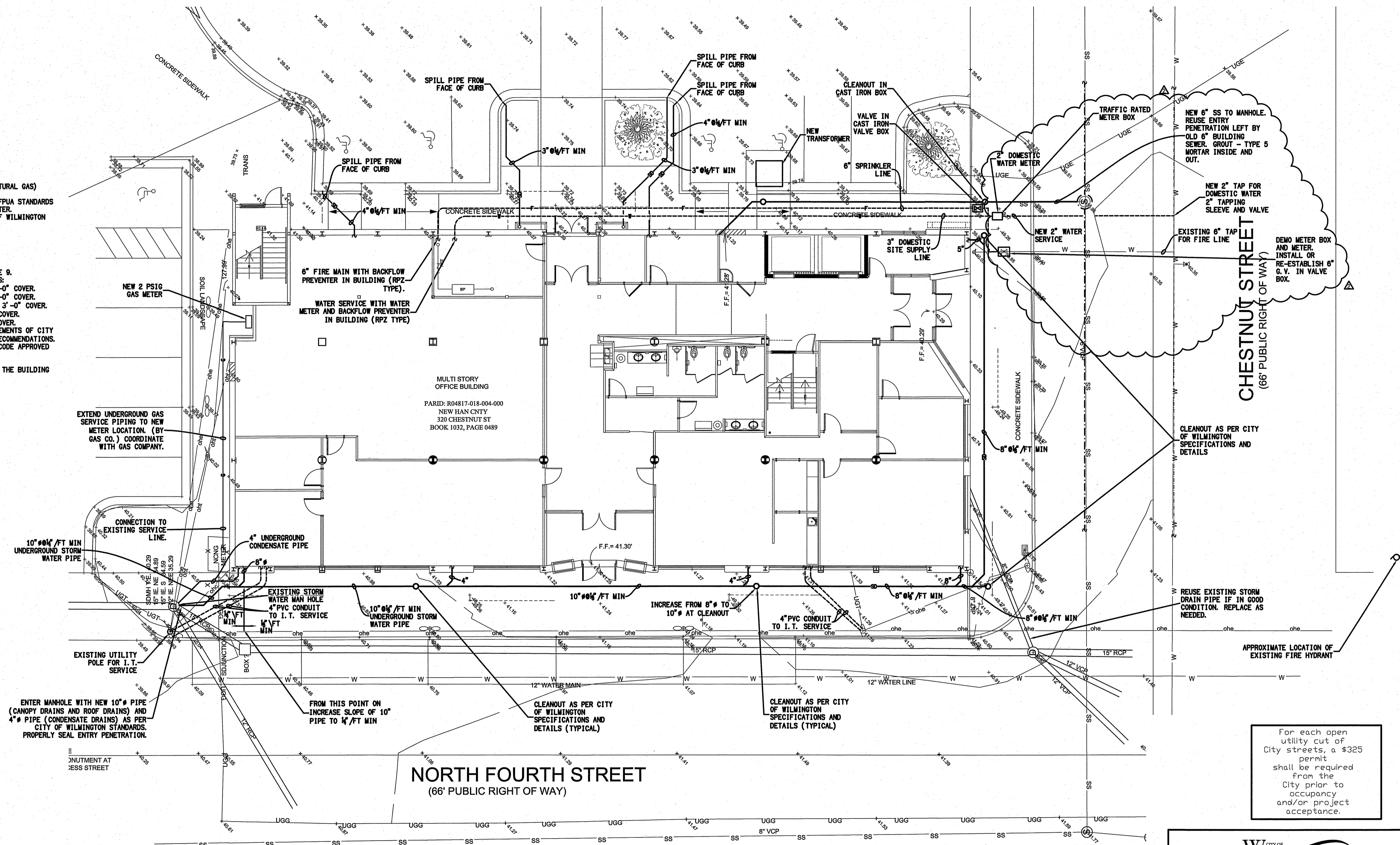
Existing Site Work

PE1  
of 2  
Sheets

DATE: 04/07/2015 DRAWING LOCATION: F:\PROJECTS\3212\3212\DWG\DWG\1025911.dwg



- NOTES:
1. ALL NATURAL GAS PIPING SHALL BE INSTALLED BY GAS COMPANY (PIEDMONT NATURAL GAS) STRICTLY AS PER GAS COMPANY STANDARDS.
  2. ALL WASTE AND WATER PIPING IN RIGHT OF WAY SHALL BE STRICTLY AS PER CFPWA STANDARDS AND SPECIFICATIONS. SEE SHEETS FOR ALL CFPWA DETAILS FOR WASTE AND WATER.
  3. ALL STORM WATER AND CONDENSATE PIPING SHALL BE STRICTLY AS PER CITY OF WILMINGTON STANDARDS AND SPECIFICATIONS.
  4. SITE PIPING ON PRIVATE PROPERTY SHALL BE AS FOLLOWS:  
 SPRINKLER WATER - C900 PVC CLASS 150 (DR 18) - PUSH JOINT.  
 DOMESTIC WATER - SCH 40 PVC PRESSURE PIPE - SOLVENT WELD JOINTS.  
 SANITARY SEWER - SCH 40 PVC, ASTM D1785 - SOLVENT WELD JOINTS.  
 STORM DRAIN PIPING - CLASS 51 DUCTILE IRON - PUSH JOINT.  
 ALL PIPING SHALL HAVE 3'-0" COVER MINIMUM EXCEPT STORM DRAIN. SEE NOTE 9.
  5. SITE PIPING ON PUBLIC PROPERTY INSIDE RIGHT OF WAY SHALL BE AS FOLLOWS:  
 SPRINKLER WATER - C900 PVC CLASS 150 (DR 18) - PUSH JOINT. MINIMUM 3'-0" COVER.  
 DOMESTIC WATER - POLYETHYLENE (PE) TUBING, SDR 9, 200 PSI, MINIMUM 3'-0" COVER.  
 SANITARY SEWER - SCH 40 PVC ASTM D1785 - SOLVENT WELD JOINTS. MINIMUM 3'-0" COVER.  
 STORM DRAIN PIPING - CLASS 51 DUCTILE IRON PUSH JOINT. MINIMUM 2'-0" COVER.  
 CONDENSATE PIPING - CLASS 51 DUCTILE IRON PUSH JOINT. MINIMUM 2'-0" COVER.
  6. ALL EXCAVATION AND BACKFILL FOR UTILITY PIPING SHALL BE AS PER REQUIREMENTS OF CITY OF WILMINGTON AND/OR CFPWA AND PIPE MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.
  7. TRANSITION FITTINGS BETWEEN DIFFERENT PIPING MATERIALS SHALL BE WITH CODE APPROVED FITTINGS DESIGNED STRICTLY FOR THAT PURPOSE.
  8. DISINFECT WATER PIPING AND MAINS AS PER CFPWA SPECIFICATIONS.
  9. THE BACK OF BUILDING CANOPY AND THE 2ND FLOOR ROOF DRAIN PIPING EXITS THE BUILDING SHALLOW AND ROUTES TO DISCHARGE AT FACE OF CURB.



- LEGEND**
- STORM DRAIN PIPE
  - 7— SPRINKLER PIPE
  - W— DOMESTIC WATER PIPE
  - WASTE PIPE
  - CLEANOUT
  - CONDENSATE PIPE
  - GAS PIPE

**A NEW SITE PLAN**  
 PE2 SCALE: 1" = 10'

320 Chestnut Street  
 Renovation  
 New Hanover County

Construction Drawings  
 January 24, 2014

- Revisions:
- ▲ 3/21/14 GENERAL REVISIONS
  - ▲ 10/1/14 CFPWA COMMENTS

For each open utility cut of City streets, a \$325 permit shall be required from the City prior to occupancy and/or project acceptance.

City of WILMINGTON  
 NORTH CAROLINA  
 Public Services/Engineering Division  
 APPROVED DRAINAGE PLAN

Date: \_\_\_\_\_ Permit #: \_\_\_\_\_  
 Signed: \_\_\_\_\_

City of WILMINGTON  
 NORTH CAROLINA  
 Approved Construction Plan

Name \_\_\_\_\_ Date \_\_\_\_\_

Planning \_\_\_\_\_  
 Traffic \_\_\_\_\_  
 Fire \_\_\_\_\_

PE2  
 of 2  
 Sheets

