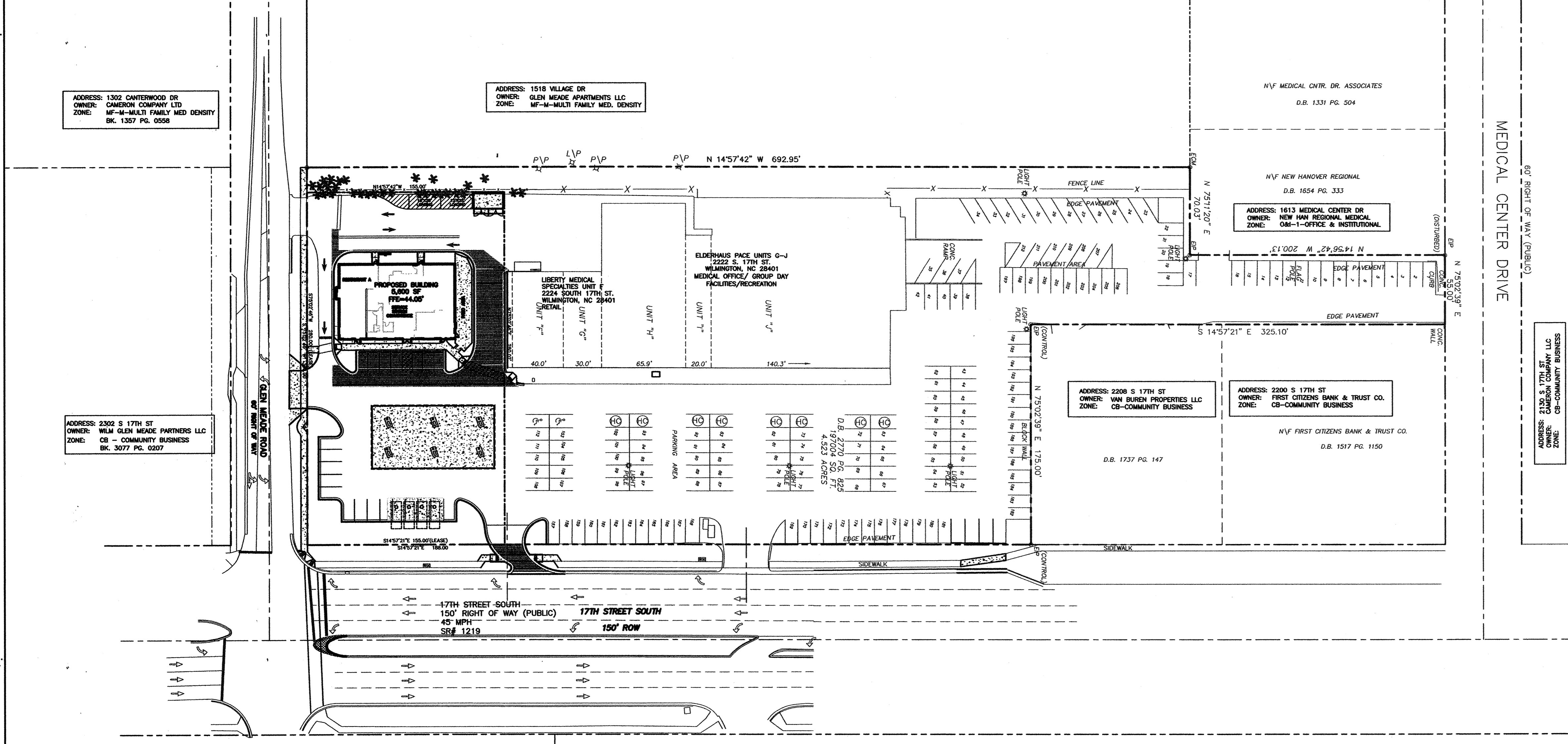


TREE REMOVAL TABLE

REGULATED PINES	12" (3)
	15" (1)
NO SIGNIFICANT TREES EXIST ON SITE.	

SITE DATA TABLE

USE:	RESTAURANT/RETAIL
PROPERTY ADDRESS:	2216 S. 17TH STREET
PROPERTY OWNER:	CANTERBURY CENTER LLC
PARCEL ID#:	R06011-003-003-000
MAP ID#:	312611.56.3722.000
PARCEL AREA:	4.523 AC (197,004 SF)
LEASE TRACT AREA:	1.00 AC (43,560 SF)
ZONING:	CB COMMERCIAL BUSINESS
CAMA LAND USE:	URBAN
BUILDING SETBACKS: (REQUIRED)	FRONT SETBACK: 20' INTERIOR SIDE SETBACK: 0' CORNER SIDE SETBACK: 20' REAR SETBACKS: 25'+1' FOR EVERY FOOT OF INCREASED HEIGHT OVER 20'. 25'+5'=30'
BUILDING SETBACKS: (PROPOSED)	FRONT SETBACK: 164' SIDE SETBACK CORNER: 32' SIDE SETBACK INTERIOR: 31' REAR SETBACKS: 76'
BUFFER REQUIRED:	20' MIN.
BUFFER EXISTING:	20' WITH FENCE
BUILDING HEIGHT MAX:	45'
BUILDING HEIGHT PROPOSED:	25'-4"
BUILDING HEIGHT EXISTING:	24'
NUMBER OF STORIES:	1
BUILDING LOT COVERAGE MAX:	30%
BUILDING LOT COVERAGE EXISTING:	23.74%
BUILDING LOT COVERAGE PROPOSED:	21.23%
BUILDING AREA:	
EXISTING BUILDING FOOTPRINT BEFORE DEMO:	46,775± SF
EXISTING BUILDING FOOTPRINT AFTER DEMO:	36,240± SF
PROPOSED BUILDING FOOTPRINT:	5,600± SF
TOTAL FOR SITE:	41,840± SF
PARKING REQUIREMENTS: (NEW LEASE AREA)	
RESTAURANT A: 33 SEATS/1,555 (-) 650 SF=905 SF GFA	
MAX: 1 PER 2.5 SEATS OR 1 PER 65 SQ FT GFA EXCLUSIVE OF KITCHEN AND RESTROOM FACILITIES	
MIN: 1 PER 4 SEATS OR 1 PER 80 SQ FT GFA EXCLUSIVE OF KITCHEN AND RESTROOM FACILITIES	
PARKING REQUIRED: MAX. 13/MIN. 8 (SEATS)	
MAX. 14/MIN. 11 (SQUARE FOOTAGE)	
SERVICE STATION/CONVENIENCE: 4,045 SF	
MAX: 1 PER 200 SF/MIN: 1 PER 400 SF	
PARKING REQUIRED: MAX. 20/MIN. 10	
TOTAL PARKING REQUIRED: MAX. 34/MIN. 18	
PARKING PROPOSED: 20 REGULAR, 1 HC ACCESSIBLE, 21 TOTAL	
ACCESSIBLE PARKING REQUIRED: 1 SPACE	
ACCESSIBLE PARKING PROPOSED: 1 SPACE	
BICYCLE PARKING REQUIRED: 10 SPACES	
BICYCLE PARKING PROVIDED: 10 SPACES	
PARKING REQUIREMENTS: (EXISTING SITE)	
RETAIL UNIT I: 3,000 SF	
MAX: 1 PER 200 SF	
MIN: 1 PER 400 SF	
PARKING REQUIRED: MAX. 15/MIN. 8	
OFFICE MEDICAL: 33,240 SF	
MAX: 1 PER 170 SF	
MIN: 1 PER 250 SF	
PARKING REQUIRED: MAX. 195/MIN. 133	
TOTAL PARKING REQUIRED: MAX. 210/MIN. 141	
EXISTING PARKING: 212 REGULAR, 14 HC ACCESSIBLE, 226 TOTAL	
PARKING PROPOSED: 20-48+21+203 (192 REGULAR, 10 HC ACCESSIBLE)	
ACCESSIBLE PARKING REQUIRED: 7 SPACE	
ACCESSIBLE PARKING PROPOSED: 10 SPACE	
BICYCLE PARKING REQUIRED: 10 SPACES	
BICYCLE PARKING PROVIDED: 10 SPACES	
LANDSCAPING REQUIREMENTS (REFER TO LANDSCAPE PLAN)	
15 TREES PER DISTURBED ACRE REQUIRED	
DISTURBED AREA=0.91 0.91 X 15= 14 TREES	
INTERIOR LANDSCAPING CB: 20% CANOPY COVER OF INTERIOR AREA OF PARKING FACILITY BASED ON AMOUNT OF PARKING AREA IMPERVIOUS SURFACE (28,765 SF).	
STREETYARD LANDSCAPING: 18 MULTIPLIER	
FRONT: (155)-(13) X 18 = 2,556 SF REQUIRED	2,556 SF
PROPOSED: 744 SF	
SIDE: (300-60) X 9 = 2,160 SF REQUIRED	2,160 SF PROPOSED
FOUNDATION PLANTINGS: 12% FACE OF BUILDING X LENGTH	
BUILDING CONSTRUCTION TYPE: V-B	
DISTURBED AREA: 0.93 AC	
WATER AND SEWER USAGE	
RESTAURANT	
WATER: 40 GAL/SEAT (40) = 1,600 GPD	
SEWER: 40 GAL/SEAT (40) = 1,600 GPD	
CONVENIENT STORE	
WATER: 250 GAL/PLUMBING FIXTURE (8) = 2,000 GPD	
SEWER: 250 GAL/PLUMBING FIXTURE (8) = 2,000 GPD	
TOTAL: WATER= 3,600 GPD	
SEWER= 3,600 GPD	



IMPERVIOUS AREA CALCULATIONS-SITE

EXISTING IMPERVIOUS AREA:	
BUILDING:	46,775 SF
ASPHALT/CONCRETE/CURB & GUTTER:	124,425 SF
SIDEWALK:	5,700 SF
TOTAL:	176,900 SF
% EXISTING IMPERVIOUS AREA:	89.80%
EXISTING IMPERVIOUS AREA REMOVED:	
BUILDING:	10,535 SF
ASPHALT/CONCRETE/CURB & GUTTER:	12,947 SF
SIDEWALK:	2,116 SF
TOTAL:	25,597 SF
NEW IMPERVIOUS AREA ADDED:	
NEW BUILDING:	5,600 SF
ASPHALT/CONCRETE/CURB & GUTTER:	13,115 SF
PROPOSED SIDEWALK:	744 SF
TOTAL:	19,459 SF
PROPOSED IMPERVIOUS AREA FOR SITE:	
EXIST. BUILDING:	36,240 SF
NEW BUILDING:	5,600 SF
ASPHALT/CONCRETE/CURB & GUTTER:	124,593 SF
SIDEWALK:	4,328 SF
TOTAL:	170,761 SF
% PROPOSED IMPERVIOUS AREA:	86.67%

IMPERVIOUS AREA CALCULATIONS-ROW

EXISTING IMPERVIOUS AREA REMOVED:	
ASPHALT/CONCRETE/CURB & GUTTER:	1,509 SF
SIDEWALK:	282 SF
TOTAL:	1,791 SF
NEW IMPERVIOUS AREA ADDED:	
ASPHALT/CONCRETE/CURB & GUTTER:	1,433 SF
SIDEWALK:	1,567 SF
TOTAL:	3,000 SF

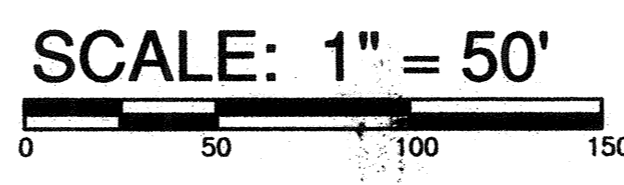
For each open utility out of City streets, a \$325 permit shall be required from the City prior to occupancy and/or project acceptance.

CITY OF WILMINGTON
Public Services • Engineering Division
APPROVED STORMWATER MANAGEMENT PLAN
Date: 10/15/15 Permit # 201503Y
Signed: [Signature]

Approved Construction Plan

Name: [Name] Date: 10/15/15
Planning: [Signature] Traffic: [Signature] Fire: [Signature]

NCDENR PWSS WATER PERMIT #: _____ GPD
WATER CAPACITY: _____ GPD
DWQ SEWER PERMIT #: _____ GPD
SEWER CAPACITY: _____ GPD
SEWER SHED # AND PLANT: _____
SEWER TO FLOW THROUGH NEI: YES or NO (CIRCLE ONE)



Bateman Civil Survey Company
Engineers • Surveyors • Planners
200 N. Main Street, Holly Springs, NC 27540
Phone: 919.577.1080 Fax: 919.577.1081
NCBELS FIRM No. C-2378

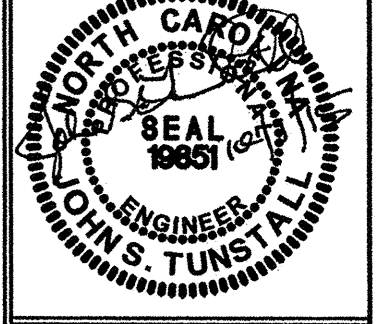
SYMBOL	DATE	DESCRIPTION	BY
		REVISIONS	

OVERALL SITE PLAN
PHOENIX MART DEVELOPMENT
2238 S. 17th STREET
WILMINGTON, N. C.

OWNER/DEVELOPER
CANTERBURY CENTER, LLC
WILLIAM H. CAMERON, MANAGER
P.O. BOX 3649
WILMINGTON, NC 28406
910-762-2676

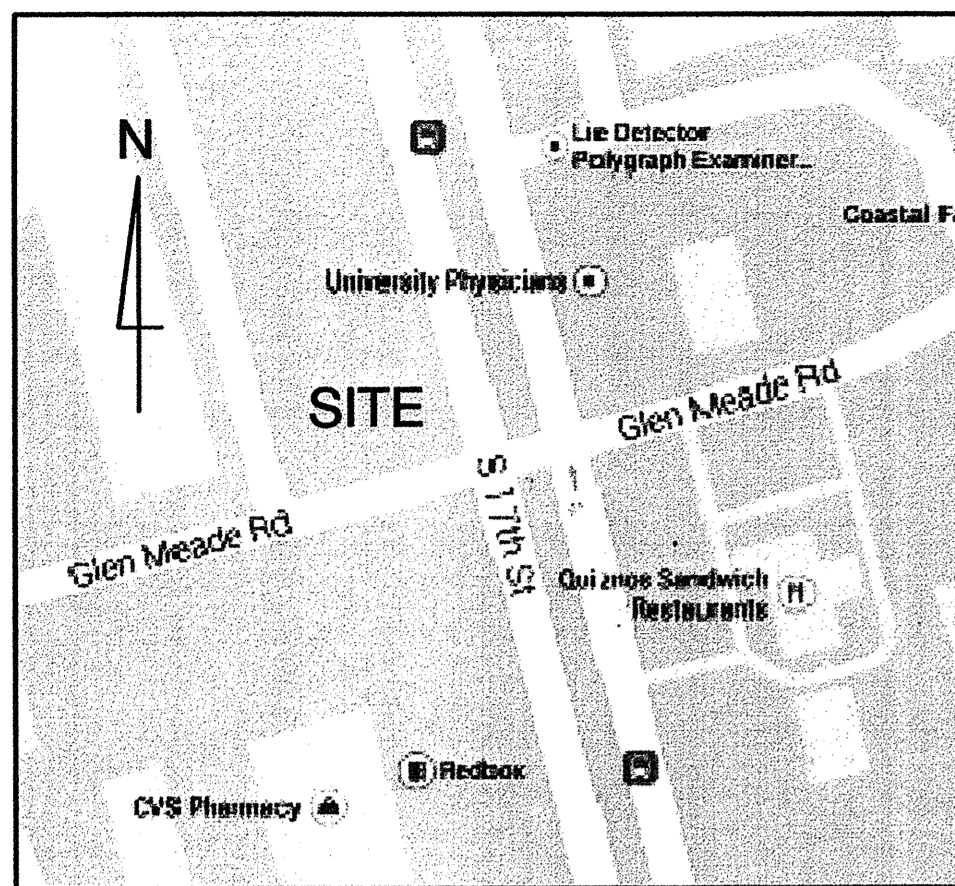
NORRIS & TUNSTALL
CONSULTING ENGINEERS, P.C.
902 MARKET STREET
WILMINGTON, NC 28401
PHONE (910) 343-9853
FAX (910) 343-9804
office@nteng.com
licencenr@nteng.com

15065
DES. JST
CHK. JPN
DRWL. NKS
DATE 10/1/15



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CO



LOCATION MAP

ADDRESS: 1302 CANTERWOOD DR
OWNER: CAMERON COMPANY LTD
ZONE: MF-M-MULTI FAMILY MED DENSITY
BK. 1357 PG. 0558

ADDRESS: 1518 VILLAGE DR
OWNER: GLEN MEADE APARTMENTS LLC
ZONE: MF-M-MULTI FAMILY MED. DENSITY
D.B. 1356 PG. 1386

ADDRESS: 2302 S 17TH ST
OWNER: WILM GLEN MEADE PARTNERS LLC
ZONE: CB - COMMUNITY BUSINESS
BK. 3077 PG. 0207

ADDRESS: 2243 S 17TH ST
OWNER: NEW HANOVER COUNTY
ZONE: CB - COMMUNITY BUSINESS
BK. 1509 PG. 0823

ADDRESS: 2131 S 17TH ST
OWNER: NEW HANOVER COUNTY
ZONE: O&I-1 OFFICE & INSTITUTIONAL
BK. 0704 PG. 0478

N\F MEDICAL CNTR. DR. ASSOCIATES
D.B. 1331 PG. 504

N\F NEW HANOVER REGIONAL
D.B. 1654 PG. 333

ADDRESS: 1613 MEDICAL CENTER DR
OWNER: NEW HAN REGIONAL MEDICAL
ZONE: O&I-1 OFFICE & INSTITUTIONAL

ADDRESS: 2208 S 17TH ST
OWNER: VAN BUREN PROPERTIES LLC
ZONE: CB-COMMUNITY BUSINESS

ADDRESS: 2200 S 17TH ST
OWNER: FIRST CITIZENS BANK & TRUST CO.
ZONE: CB-COMMUNITY BUSINESS

N\F FIRST CITIZENS BANK & TRUST CO.
D.B. 1517 PG. 1150

MEDICAL CENTER DRIVE
80' RIGHT OF WAY (PUBLIC)

ADDRESS: 1310 S 17TH ST
OWNER: CAMERON COMPANY LLC
ZONE: CB-COMMUNITY BUSINESS

INVENTORY SITE DATA

PARCEL ADDRESS: 2216 S. 17TH STREET
PARCEL ID#: R06011-003-003-000
MAP ID#: 312611.56.3722.000
TOTAL LOT AREA: 4.523 AC (197,004 SF)
PROPERTY OWNER: CANTERBURY CENTER LLC
ZONING: CB COMMUNITY BUSINESS
SOIL TYPES: Kr
CAMA LAND USE: URBAN
SITE DOES NOT LIE WITHIN 100 YEAR FLOOD PLAIN
NO CAMA AREAS OF CONCERN OR ASSOCIATED SETBACKS
HISTORICAL/ARCHAEOLOGICAL SITE: NONE
CEMETERY: NONE
FORESTED AREA: SEE PLAN FOR TREE SURVEY
WETLANDS: NONE EXIST WITHIN SITE AREA
ENDANGERED SPECIES/HABITAT: NONE REPORTED

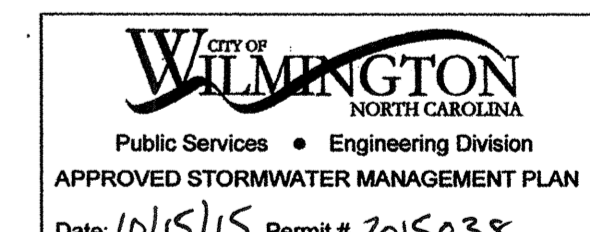
SYMBOL	DATE	DESCRIPTION	BY
		REVISIONS	

SITE INVENTORY PLAN
PHOENIX MART DEVELOPMENT
2238 S. 17th STREET
WILMINGTON, N. C.

OWNER/DEVELOPER
CANTERBURY CENTER, LLC
WILLIAM H. CAMERON, MANAGER
P.O. BOX 3849
WILMINGTON, NC 28406
910-762-2676

NORRIS & TUNSTALL
CONSULTING ENGINEERS, P.C.
902 MARKET STREET
WILMINGTON, NC 28401
PHONE (910) 343-8663
FAX (910) 343-9604
office@njsteng.com
license #C-3641

NOTES:
1. THIS TRACT IS LOCATED IN ZONE "X" ACCORDING TO THE FEDERAL EMERGENCY MANAGEMENT AGENCY'S FLOOD INSURANCE RATE MAP, COMMUNITY-PANEL NUMBER 37203126000J DATED 4/3/2006.
2. AREA LIMITS - 48,912.00± SF 1.12 AC.±



APPROVED CONSTRUCTION PLAN
Name: [Signature]
Date: 10/15/15
Permit #: 2015038

NCDENR PWSS WATER PERMIT #:	_____	GPD
WATER CAPACITY:	_____	GPD
DWQ SEWER PERMIT #:	_____	GPD
SEWER CAPACITY:	_____	GPD
SEWER SHED # AND PLANT:	_____	
SEWER TO FLOW THROUGH NEI:	YES OR NO (CIRCLE ONE)	

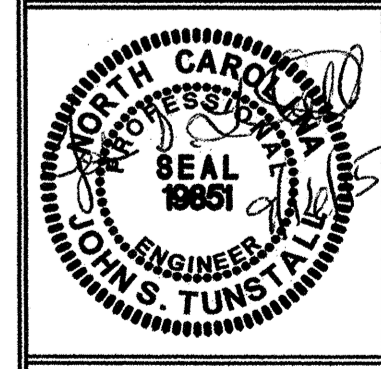
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PLANNING DIVISION

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

SCALE: 1" = 40'



15065
DES: JST
ORD: JPN
DRWN: NKS
DATE: 9/16/15



11

Bateman Civil Survey Company

Engineers • Surveyors • Planners

200 N. Main Street, Holly Springs, NC 27540
Phone: 919.577.1080 Fax: 919.577.1081
NCBELS FIRM No. C-2378

ADDRESS: 1302 CANTERWOOD DR
 OWNER: CAMERON COMPANY LTD
 ZONE: MF-M-MULTI FAMILY MED DENSITY
 BK. 1357 PG. 0558

ADDRESS: 1518 VILLAGE DR
 OWNER: GLEN MEADE APARTMENTS LLC
 ZONE: MF-M-MULTI FAMILY MED. DENSITY
 D.B. 1356 PG. 1386

ADDRESS: 2302 S 17TH ST
 OWNER: WILM GLEN MEADE PARTNERS LLC
 ZONE: CB - COMMUNITY BUSINESS
 BK. 3077 PG. 0207

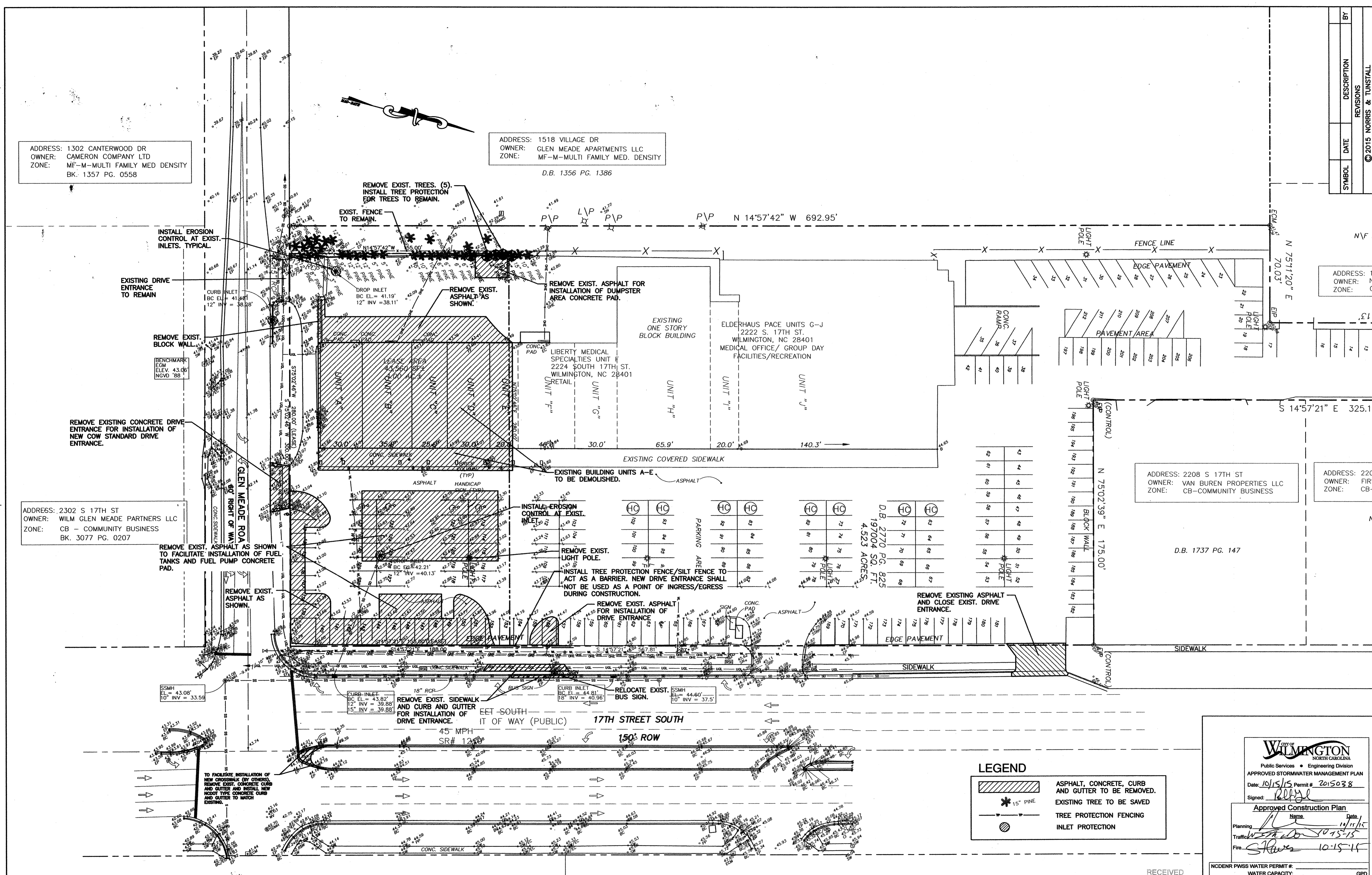
ADDRESS: 2243 S 17TH ST
 OWNER: NEW HANOVER COUNTY
 ZONE: CB - COMMUNITY BUSINESS
 BK. 1509 PG. 0823

ADDRESS: 2131 S 17TH ST
 OWNER: NEW HANOVER COUNTY
 ZONE: O&I-1 OFFICE & INSTITUTIONAL
 BK. 0704 PG. 0478

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

SCALE: 1" = 30'

C1



LEGEND

	ASPHALT, CONCRETE, CURB AND GUTTER TO BE REMOVED.
	EXISTING TREE TO BE SAVED
	TREE PROTECTION FENCING
	INLET PROTECTION

City of WILMINGTON
 Public Services • Engineering Division
 APPROVED STORMWATER MANAGEMENT PLAN
 Date: 10/15/15 Permit # 2015038
 Signed: [Signature]

Approved Construction Plan
 Name: [Signature] Date: 10/15/15
 Planning: [Signature] Date: 10/15/15
 Traffic: [Signature] Date: 10/15/15
 File: [Signature] Date: 10/15/15

NCDENR PWSS WATER PERMIT #:
 WATER CAPACITY: _____ GPD
 DWQ SEWER PERMIT #:
 SEWER CAPACITY: _____ GPD
 SEWER SHED # AND PLANT:
 SEWER TO FLOW THROUGH NEI: YES or NO (CIRCLE ONE)

SYMBOL	DATE	DESCRIPTION	BY
		REVISIONS	

OWNER/DEVELOPER
 CANTERBURY CENTER, LLC
 WILLIAM H. CAMERON, MANAGER
 P.O. BOX 3649
 WILMINGTON, NC 28406
 910-762-2676

NORRIS & TUNSTALL
 CONSULTING ENGINEERS, P.C.
 902 MARKET STREET
 WILMINGTON, NC 28401
 PHONE (910) 343-8653
 FAX (910) 343-9604
 office@njtseng.com
 license #12-3641

15065
 DES. JST
 O&D. JPN
 DRW. NKS
 DATE 10/1/15

Professional Engineer Seal
 NORRIS & TUNSTALL
 ENGINEER
 19651

DEMOLITION PLAN
 PHOENIX MART DEVELOPMENT
 2238 S. 17th STREET
 WILMINGTON, N. C.

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 STORMWATER MANAGEMENT PLAN
 Date: 10/15/15 Permit # 2015038
 Signed: *[Signature]*

Approved Construction Plan
 Name: *[Signature]* Date: 10/15/15
 Planning: *[Signature]* Date: 10/15/15
 Traffic: *[Signature]* Date: 10/15/15
 Fire: *[Signature]* Date: 10/15/15

NC DENR PWSS WATER PERMIT #: _____ GPD
 DWQ SEWER PERMIT #: _____ GPD
 SEWER CAPACITY: _____ GPD
 SEWER SHED # AND PLANT: _____
 SEWER TO FLOW THROUGH NEI: YES or NO (CIRCLE ONE)

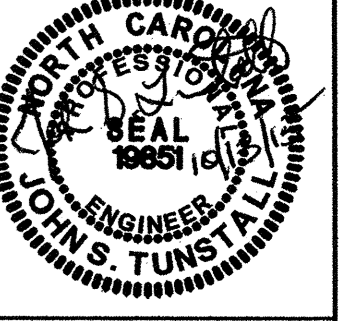
SYMBOL	DATE	DESCRIPTION	REVISIONS
			©2015 NORRIS & TUNSTALL

GRADING, DRAINAGE AND EROSION CONTROL PLAN
PHOENIX MART DEVELOPMENT
 2238 S. 17th STREET
 WILMINGTON, N. C.

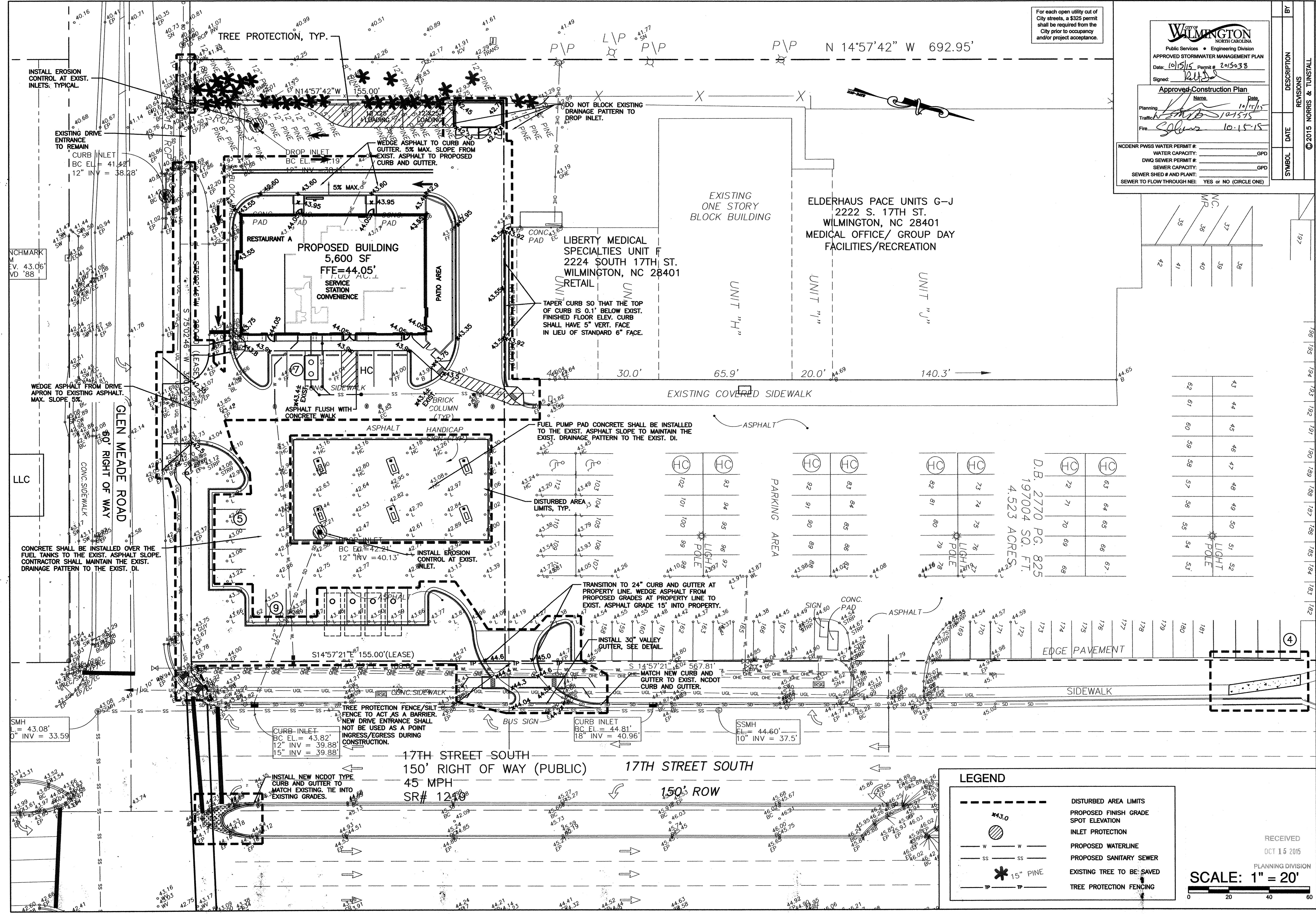
OWNER/DEVELOPER
 CANTERBURY CENTER, LLC
 WILLIAM H. CAMERON, MANAGER
 P.O. BOX 9649
 WILMINGTON, NC 28406
 910-762-2676

NORRIS & TUNSTALL
CONSULTING ENGINEERS, P.C.
 902 MARKET STREET
 WILMINGTON, NC 28401
 PHONE (910) 343-9653
 FAX (910) 343-9804
 License #C-5641

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 DES. JST
 CIP. JPN
 DRWL. NKS
 DATE 10/13/15



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 PLANNING DIVISION
C2



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 STORMWATER MANAGEMENT PLAN
Date: 10/15/15 Permit #: 2015039
Signed: [Signature]

Approved Construction Plan
Name: [Signature] Date: 10/15/15
Traffic: [Signature] 10/15/15
Fire: [Signature] 10-15-15

NC DENR PWSS WATER PERMIT #:
WATER CAPACITY: _____ GPD
DWQ SEWER PERMIT #:
SEWER CAPACITY: _____ GPD
SEWER SHED # AND PLANT:
SEWER TO FLOW THROUGH NE: YES or NO (CIRCLE ONE)

- NOTES:**
- ANY TRAFFIC SIGNAL INFRASTRUCTURE ADJUSTMENTS, INCLUDING OVERHEAD OR UNDERGROUND SIGNAL SYSTEM FIBER COMMUNICATION LINES, ARE THE RESPONSIBILITY OF THE APPLICANT/DEVELOPER.
 - THE CITY SHALL BE NOTIFIED IMMEDIATELY OF ANY TRAFFIC SIGNAL FACILITIES DAMAGED DURING CONSTRUCTION.
 - DAMAGED FACILITIES SHALL BE REPLACED, AT CONTRACTOR/DEVELOPER EXPENSE, ACCORDING TO STANDARD NCDOT REPLACEMENT SCHEDULES AND CURRENT NCDOT DESIGN STANDARDS.
 - ALL TRAFFIC SIGNAL PLANS AND TRAFFIC SIGNAL PLAN REVISIONS ARE TO BE INCLUDED IN THE CONSTRUCTION PLANS FOR RELEASE, APPROVED AND IMPLEMENTED PRIOR TO ISSUANCE OF ANY CERTIFICATE OF OCCUPANCY.
 - FUEL DELIVERY SHALL TAKE PLACE DURING OFF PEAK HOURS.

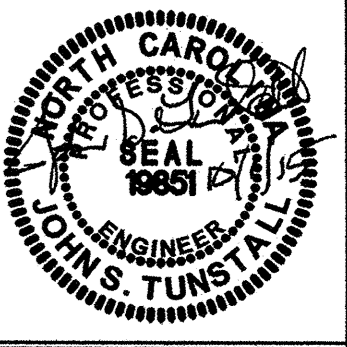
REVISIONS	BY	DATE	DESCRIPTION

LAYOUT PLAN
PHOENIX MART DEVELOPMENT
2238 S. 17TH STREET
WILMINGTON, N. C.

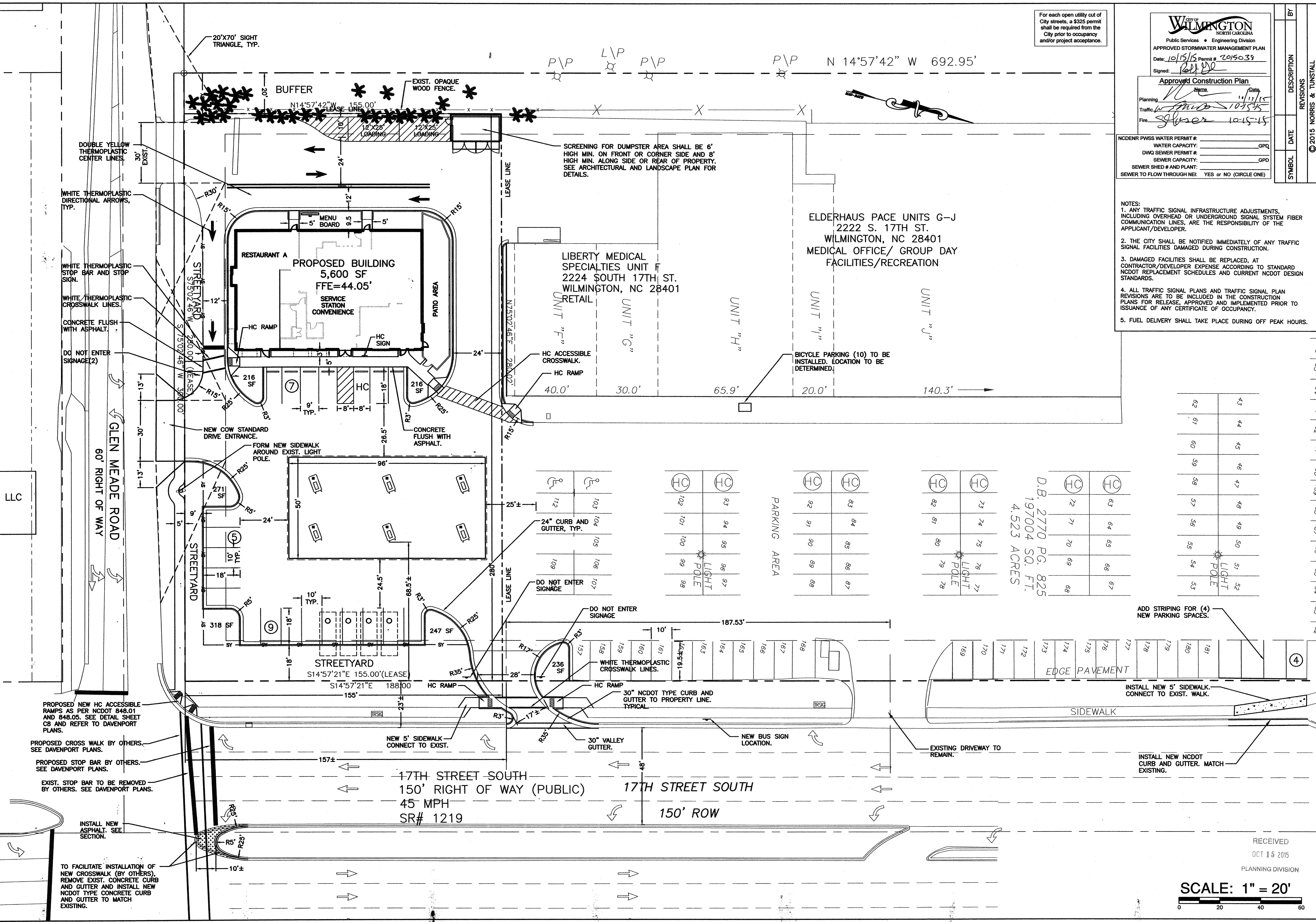
OWNER/DEVELOPER
CANTERBURY CENTER, LLC
WILLIAM H. CAMERON, MANAGER
P.O. BOX 3849
WILMINGTON, NC 28408
910-762-2676

NORRIS & TUNSTALL
CONSULTING ENGINEERS, P.C.
902 MARKET STREET
WILMINGTON, NC 28401
PHONE (910) 343-9653
FAX (910) 343-9604
office@nteng.com
license NC-3641

15065
DES: JST
CHK: JFN
DRWN: NKS
DATE: 10/1/15



C3



RECEIVED
OCT 15 2015
PLANNING DIVISION
SCALE: 1" = 20'

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 STORMWATER MANAGEMENT PLAN
 Date: 10/15/15 Permit # 2015038
 Signed: [Signature]

Approved Construction Plan
 Name: [Name] Date: 11/11/15
 Planning: [Signature]
 Traffic: [Signature]
 Fire: [Signature] 10/15/15

NC DENR PWSS WATER PERMIT #:
 WATER CAPACITY: _____ GPD
 DWQ SEWER PERMIT #:
 SEWER CAPACITY: _____ GPD
 SEWER SHED # AND PLANT:
 SEWER TO FLOW THROUGH NEI: YES or NO (CIRCLE ONE)

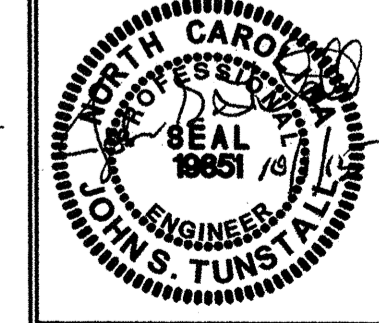
BY	DESCRIPTION	DATE
	REVISIONS <td></td>	
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PAVING PLAN
PHOENIX MART DEVELOPMENT
 2238 S. 17th STREET
 WILMINGTON, N. C.

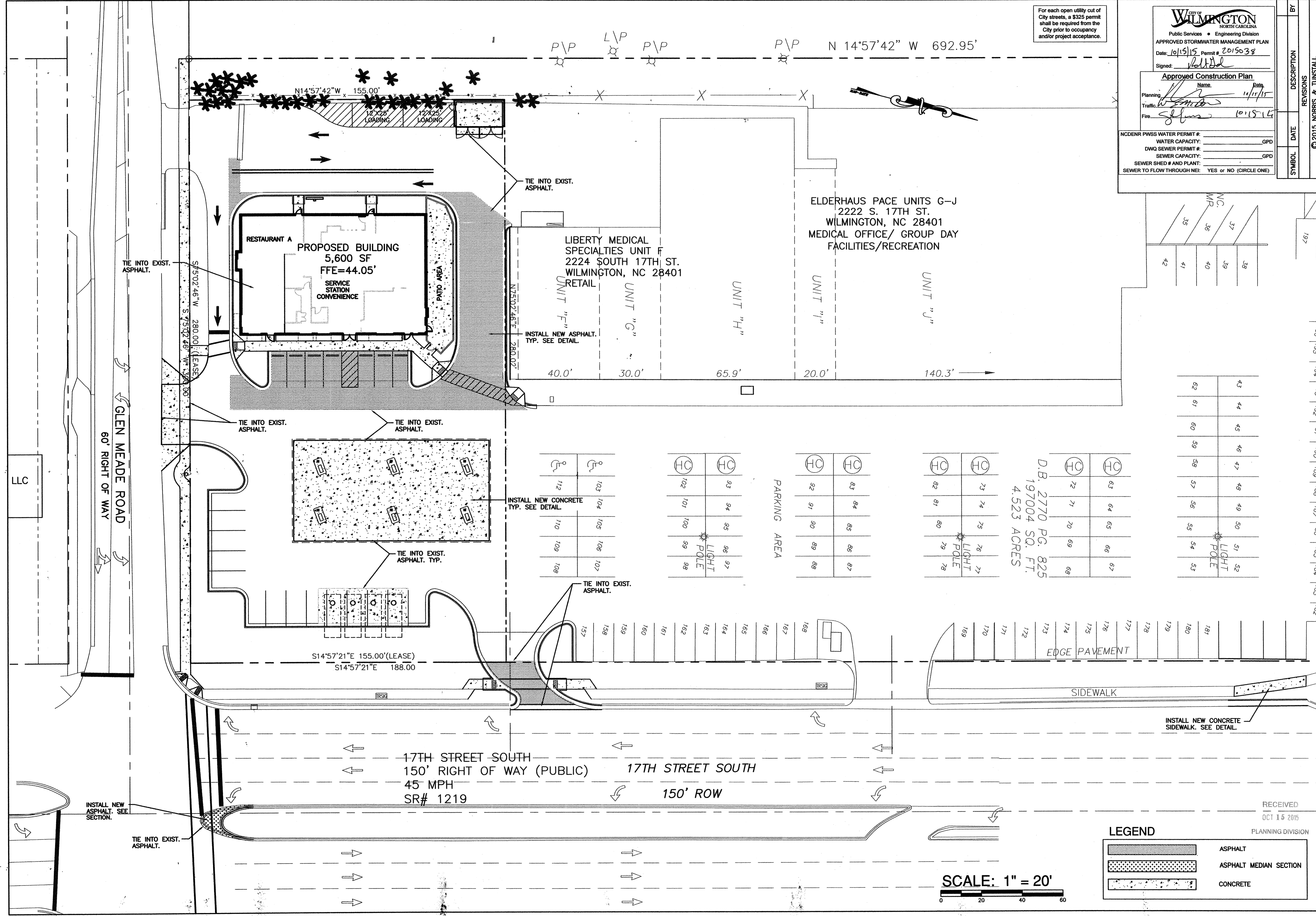
OWNER/DEVELOPER
 CANTERBURY CENTER, LLC
 WILLIAM H. CAMERON, MANAGER
 P.O. BOX 9849
 WILMINGTON, NC 28406
 910-782-2878

NORRIS & TUNSTALL
CONSULTING ENGINEERS, P.C.
 902 MARKET STREET
 WILMINGTON, NC 28401
 PHONE (910) 343-9653
 FAX (910) 343-9604
 office@nt360.com
 license #C-3547

15065
 DES: JST
 DRW: JPN
 NKS
 DATE: 10/1/15



C4



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 STORMWATER MANAGEMENT PLAN
Date: 10/15/15 Permit # 20150338
Signed: [Signature]
Approved Construction Plan
Name: [Signature] Date: 10/15/15
Planning: [Signature] Date: 10/15/15
Traffic: [Signature] Date: 10/15/15
Fire: [Signature] Date: 10/15/15

NCDENR PWSS WATER PERMIT # _____ GPD
WATER CAPACITY: _____ GPD
DWO SEWER PERMIT # _____ GPD
SEWER CAPACITY: _____ GPD
SEWER SHED # AND PLANT: _____
SEWER TO FLOW THROUGH NEI: YES or NO (CIRCLE ONE)

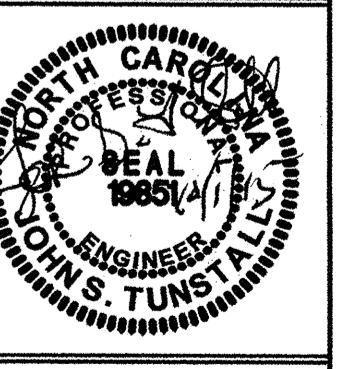
SYMBOL	DATE	DESCRIPTION	BY
		REVISIONS	

UTILITY PLAN
PHOENIX MART DEVELOPMENT
2238 S. 17th STREET
WILMINGTON, N. C.

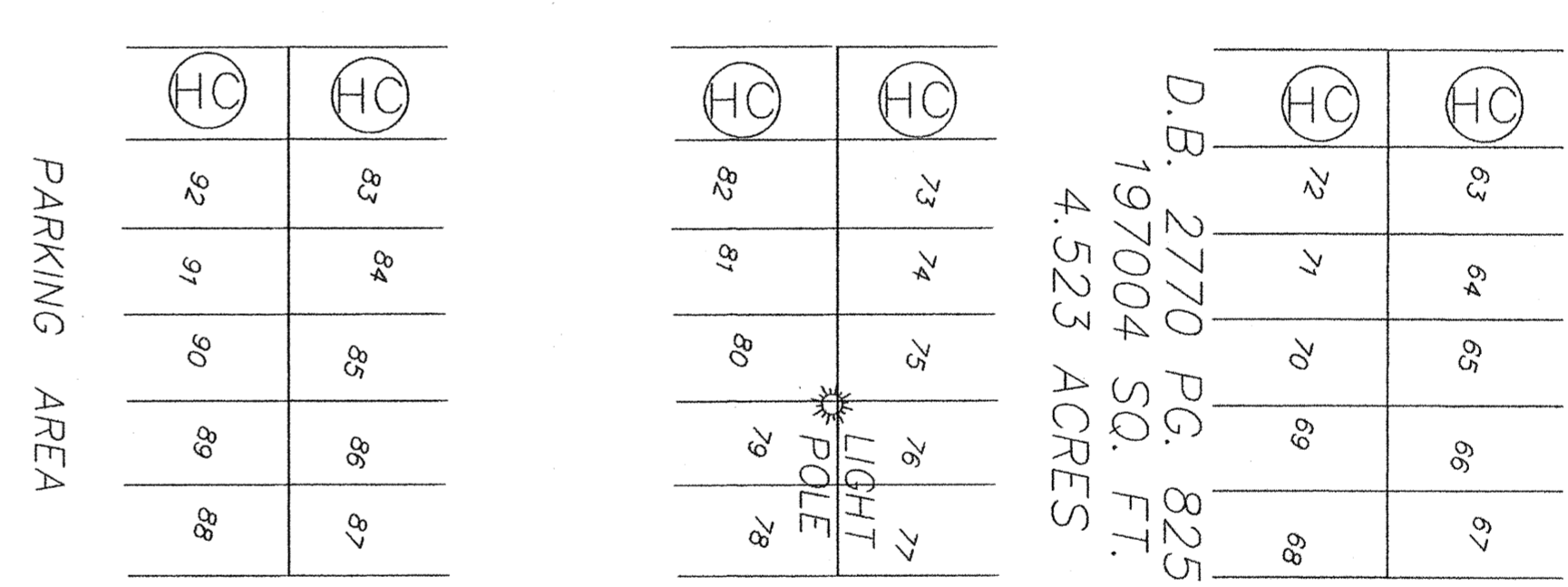
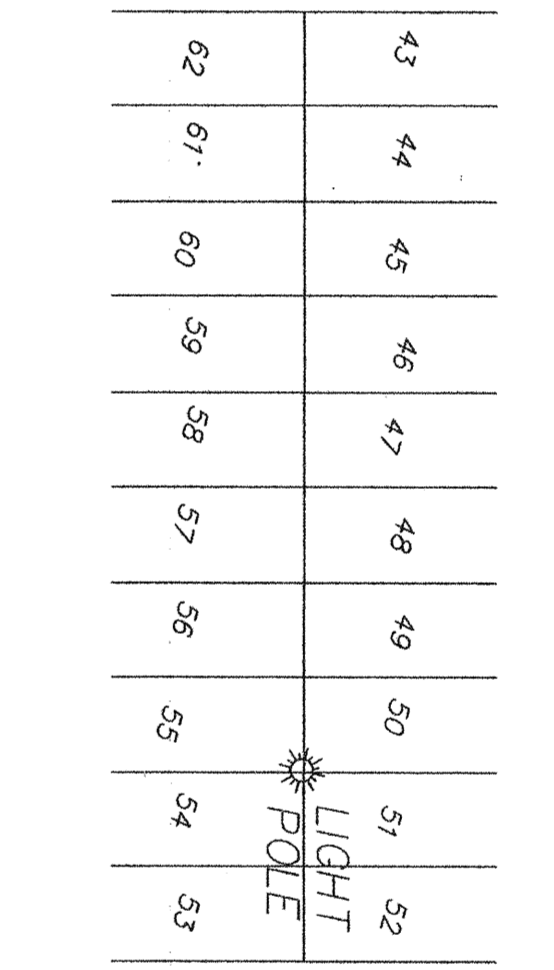
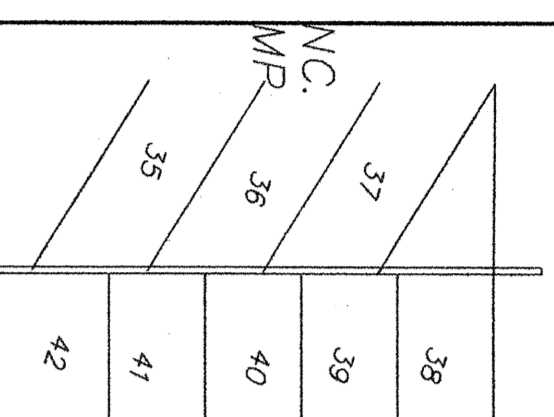
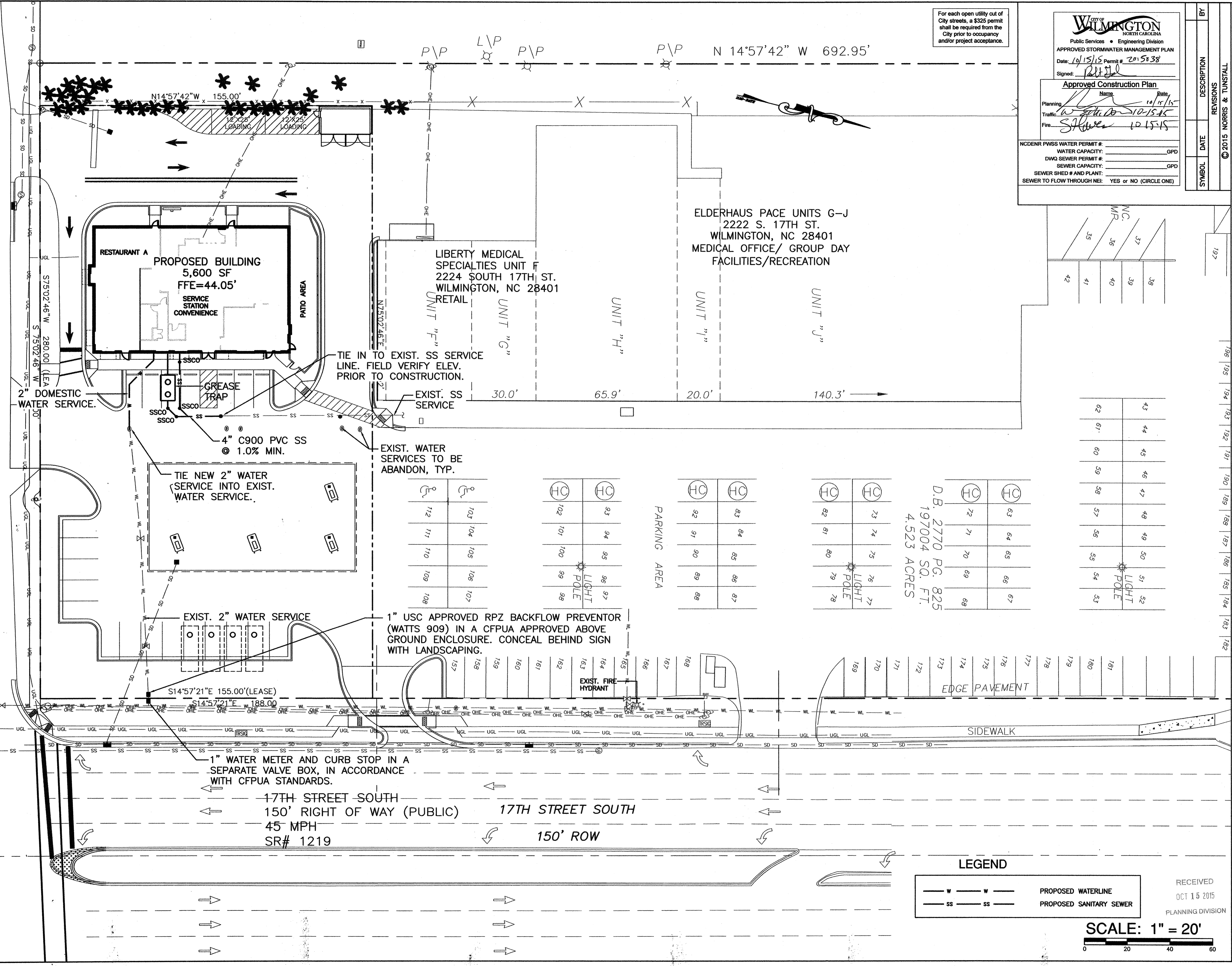
OWNER/DEVELOPER
CANTERBURY CENTER, LLC
WILLIAM H. CAMERON, MANAGER
P.O. BOX 3648
WILMINGTON, NC 28406
910-762-2676

NORRIS & TUNSTALL
CONSULTING ENGINEERS, P.C.
902 MARKET STREET
WILMINGTON, NC 28401
PHONE (910) 343-9653
FAX (910) 343-8604
license # 3561

15065
DES. JST
O.D. JPN
DWL. NKS
DATE 10/1/15



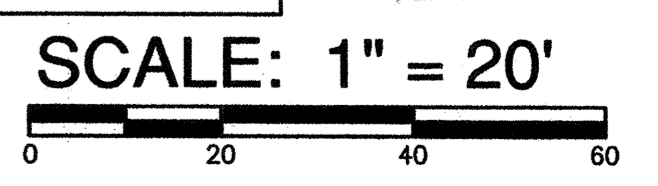
RECEIVED
OCT 15 2015
PLANNING DIVISION
C5



D.B. 2770 PG. 825
197004 SQ. FT.
4.523 ACRES

LEGEND

— W — W — PROPOSED WATERLINE
— SS — SS — PROPOSED SANITARY SEWER



GLEN MEADE ROAD
60' RIGHT OF WAY

1" WATER METER AND CURB STOP IN A SEPARATE VALVE BOX, IN ACCORDANCE WITH CFPUA STANDARDS.
17TH STREET SOUTH
150' RIGHT OF WAY (PUBLIC)
45 MPH
SR# 1219

1" USC APPROVED RPZ BACKFLOW PREVENTOR (WATTS 909) IN A CFPUA APPROVED ABOVE GROUND ENCLOSURE. CONCEAL BEHIND SIGN WITH LANDSCAPING.

TIE IN TO EXIST. SS SERVICE LINE. FIELD VERIFY ELEV. PRIOR TO CONSTRUCTION.

TIE NEW 2" WATER SERVICE INTO EXIST. WATER SERVICE.

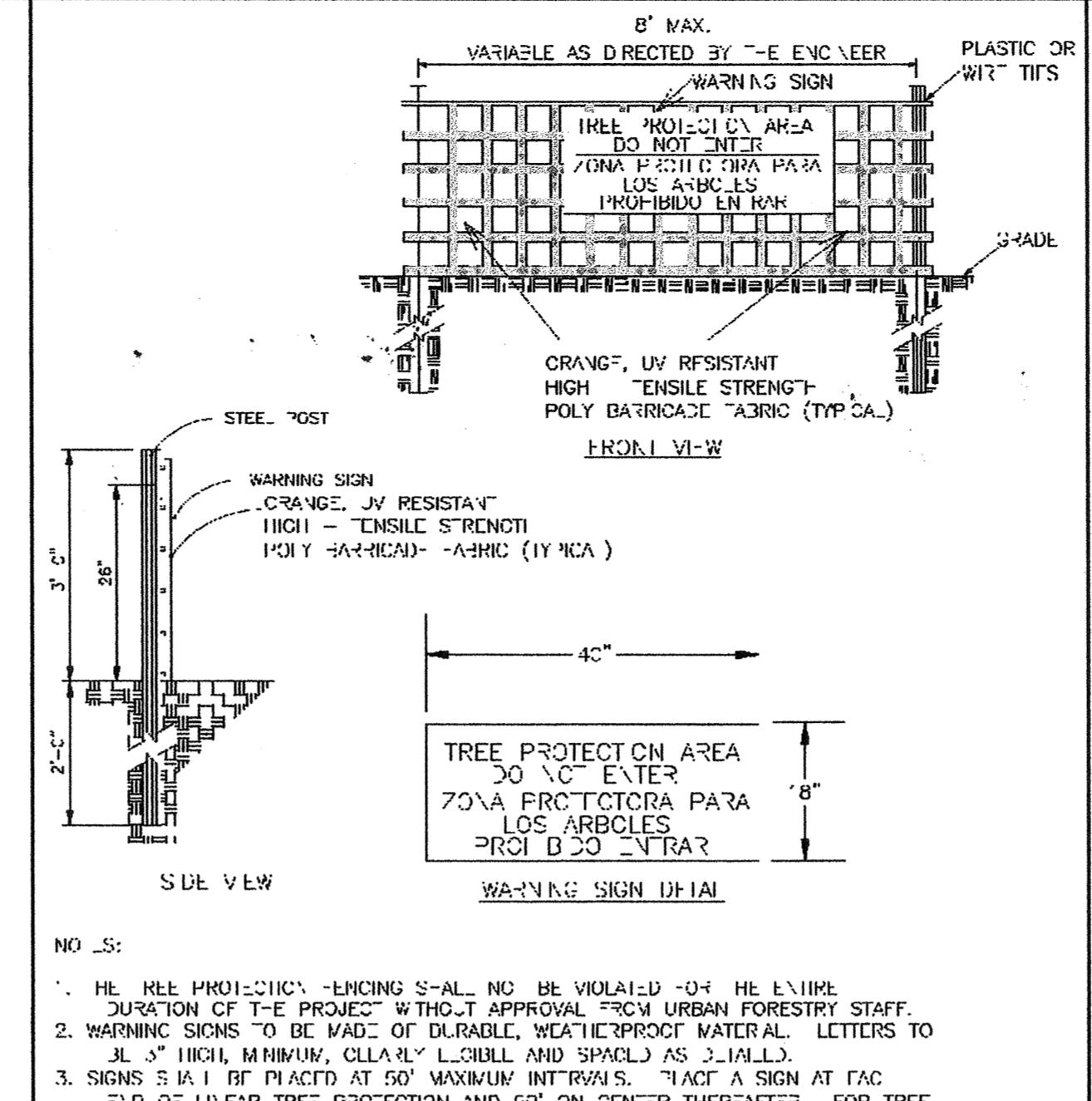
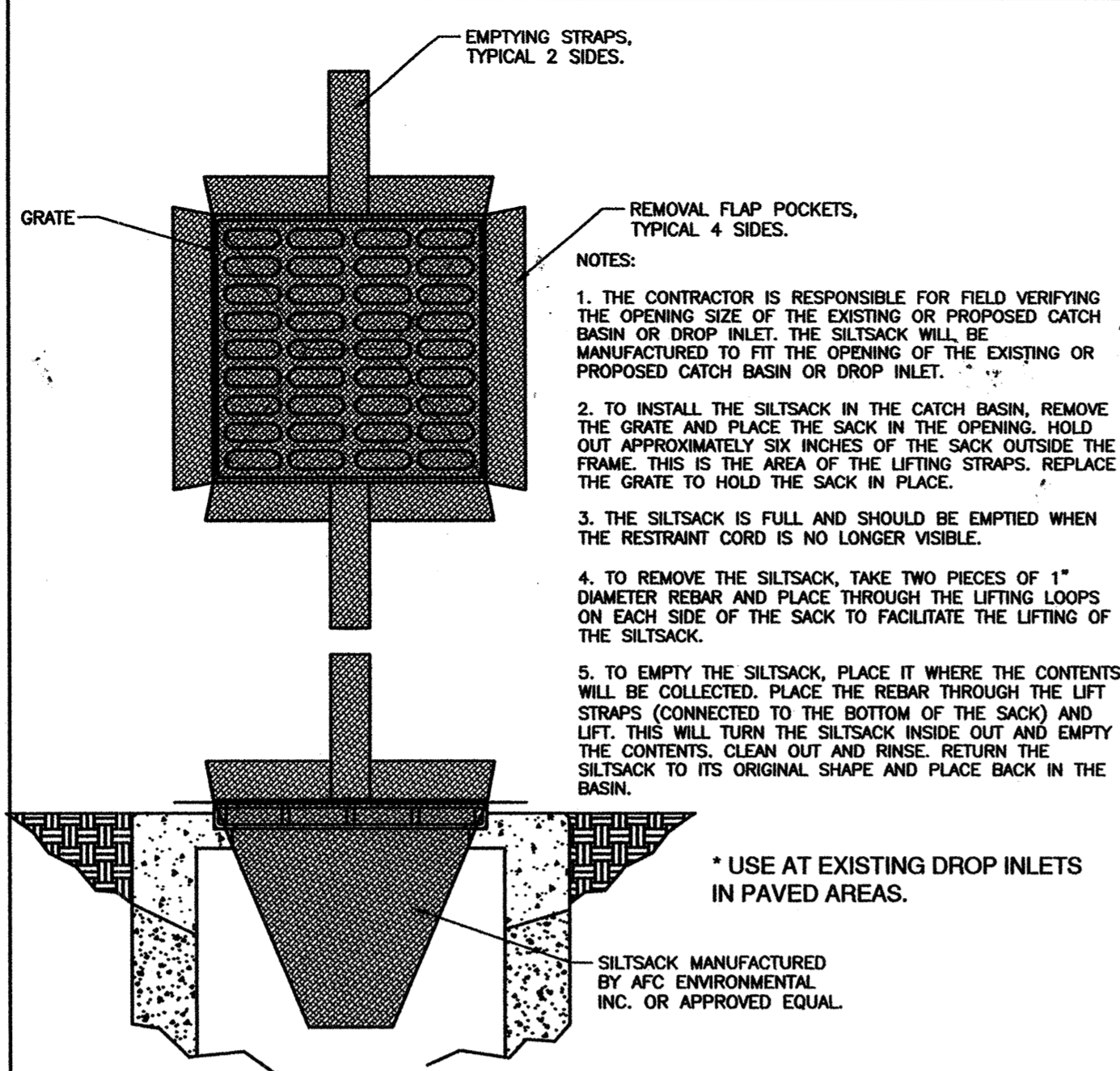
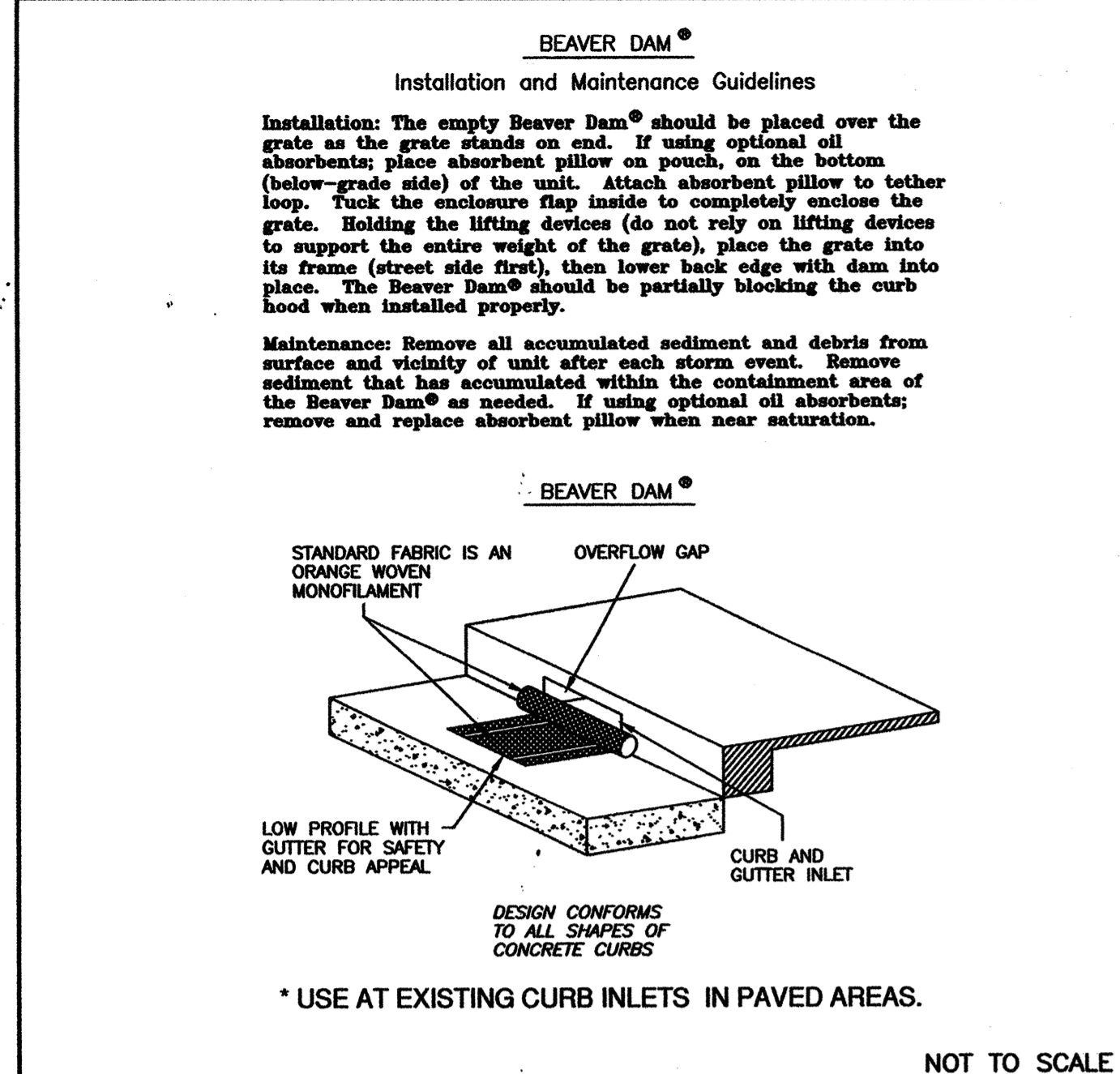
2" DOMESTIC WATER SERVICE.

PROPOSED BUILDING
5,600 SF
FFE=44.05'
SERVICE STATION
CONVENIENCE

LIBERTY MEDICAL SPECIALTIES UNIT F
2224 SOUTH 17TH ST.
WILMINGTON, NC 28401
RETAIL

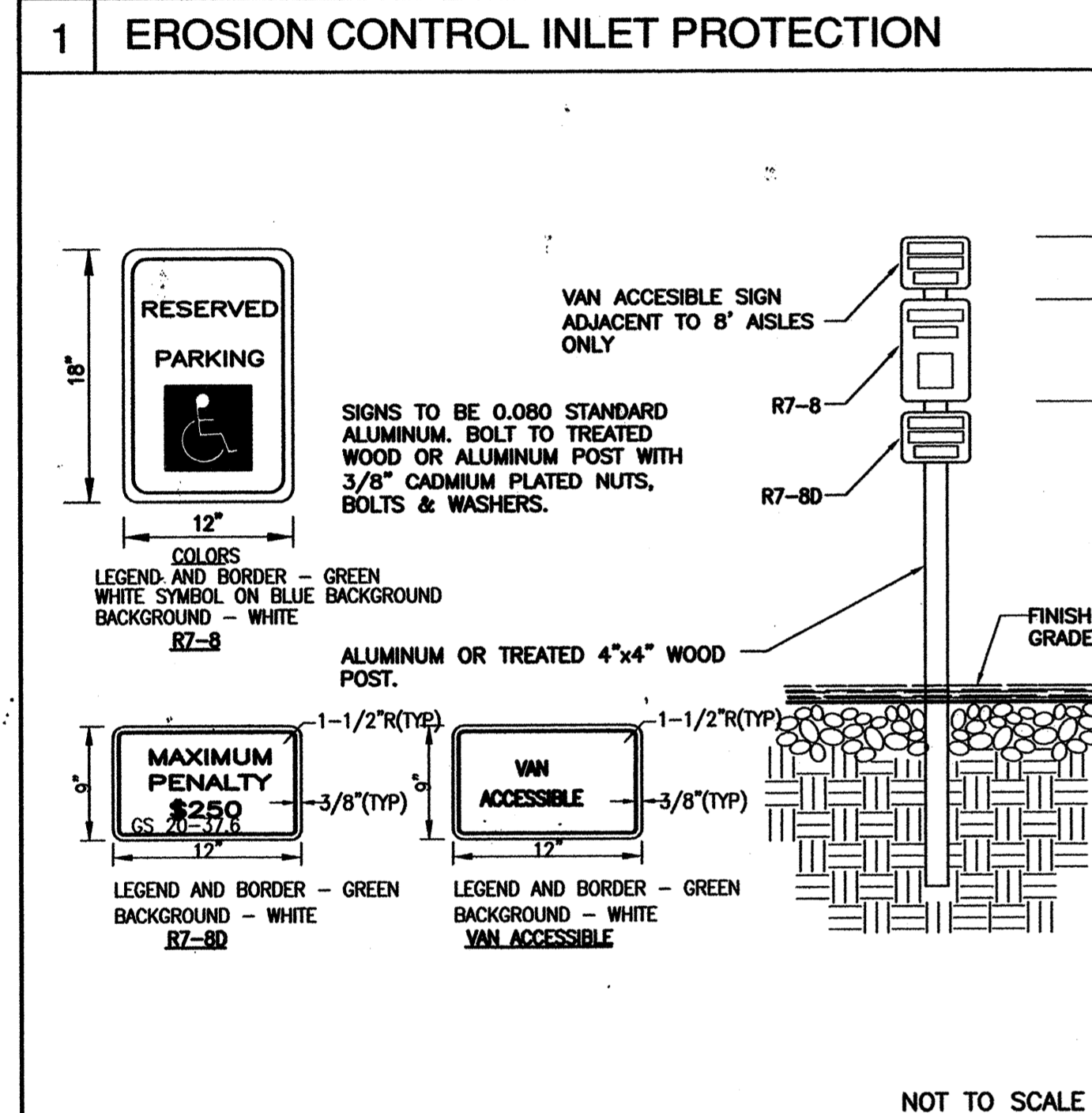
ELDERHAUS PACE UNITS G-J
2222 S. 17TH ST.
WILMINGTON, NC 28401
MEDICAL OFFICE/ GROUP DAY FACILITIES/RECREATION

LEC



EROSION CONTROL NOTES AND MAINTENANCE PLAN:

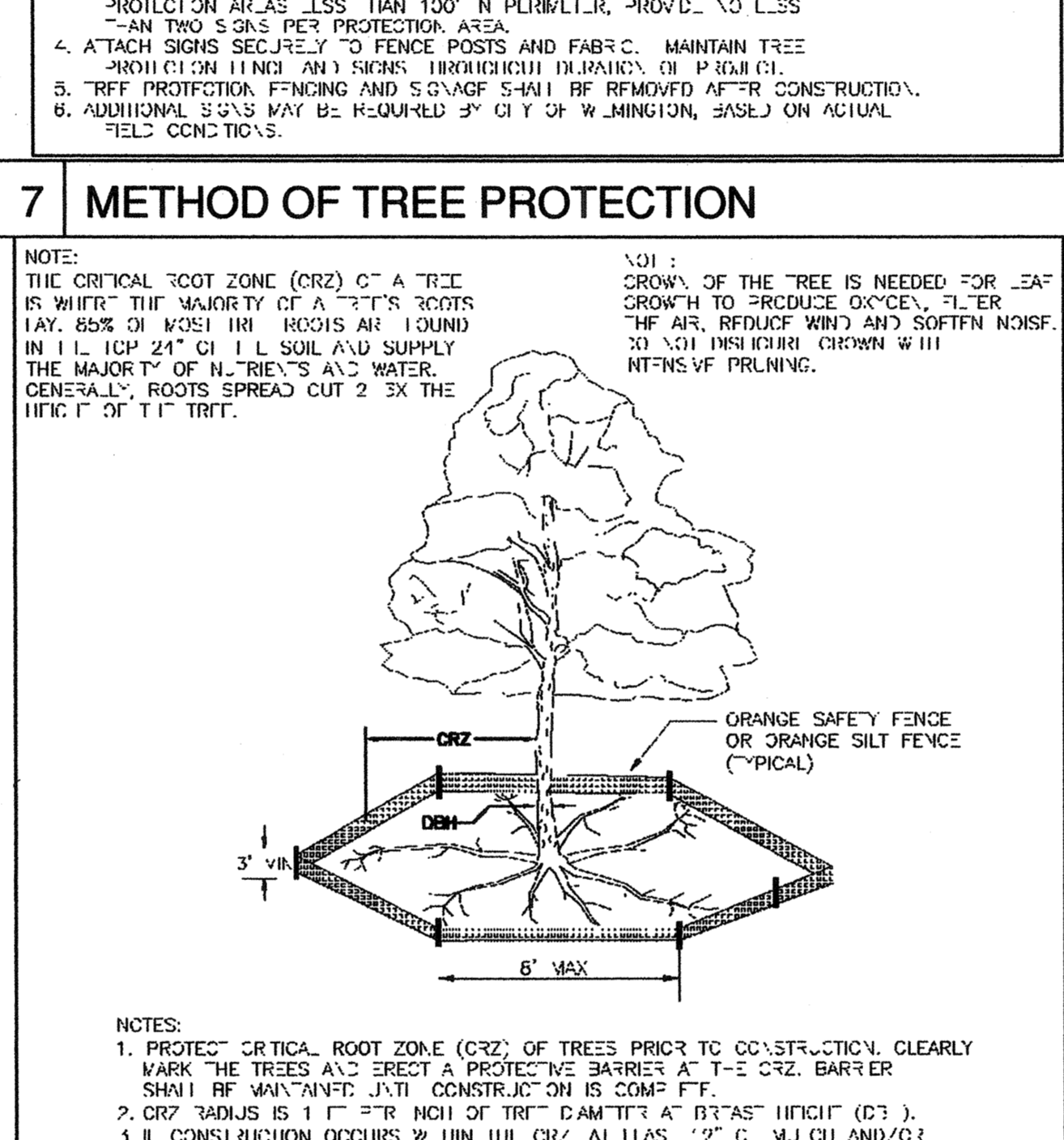
1. ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE CHECKED FOR STABILITY AND OPERATION FOLLOWING EVERY RAINFALL-PRODUCING RAINFALL EVENT. IN NO CASE, LESS THAN ONCE EVERY WEEK AND WITHIN 24 HOURS OF EVERY HALF-INCH RAINFALL.
2. ALL POINTS OF EGRESS WILL HAVE CONSTRUCTION ENTRANCES THAT WILL BE REGULARLY 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 WAFFLES, BEAVER DAMS, DANDY SACKS AND SOCKS ONCE A WEEK AND AFTER EVERY RAIN EVENT.
4. DIVERSION DITCHES WILL BE CLEANED OUT IMMEDIATELY TO REMOVE SEDIMENT OR OBSTRUCTIONS FROM THE FLOW AREA. THE DIVERSION 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.
5. SEDIMENT WILL BE REMOVED FROM BEHIND THE SEDIMENT FENCE WHEN IT BECOMES HALF FILLED. THE SEDIMENT FENCE WILL BE REPAIRED AS NECESSARY TO MAINTAIN A BARRIER. STAKES MUST BE STEEL. STAKE SPACING WILL BE 6 FEET MAX. WITH THE USE OF EXTRA STRENGTH FABRIC, WITHOUT WIRE BACKING. STAKE SPACING WILL BE 8 FEET MAX. WHEN STANDARD STRENGTH FABRIC AND WIRE BACKING ARE USED. IF ROCK FILTERS ARE DESIGNED AT LOW POINTS IN THE SEDIMENT FENCE, THE ROCK WILL BE REPAIRED OR REPLACED IF IT BECOMES HALF-FULL OF SEDIMENT, NO LONGER DRAINS AS DESIGNED OR IS DAMAGED.
6. SEDIMENT WILL BE REMOVED FROM SEDIMENT TRAPS WHEN THE DESIGNED STORAGE CAPACITY HAS BEEN HALF FILLED WITH SEDIMENT. THE ROCK WILL BE CLEANED OR REPLACED WHEN THE SEDIMENT POOL NO LONGER DRAINS OR WHEN THE SEDIMENT FENCE AND WAFFLES 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 WEEKLY.
7. 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 DISLOADED. 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.
8. LAND QUALITY REQUIREMENTS: ALL SEEDED AREAS WILL BE FERTILIZED, RESEED AS NECESSARY AND MULCHED, ACCORDING TO SPECIFICATIONS IN THE VEGETATIVE PLAN, TO MAINTAIN A VIGOROUS, DENSE VEGETATIVE COVER. ALL SLOPES WILL BE STABILIZED WITHIN 21 WORKING DAYS.
9. WATER QUALITY REQUIREMENTS: ALL SEEDED AREAS WILL BE FERTILIZED, RESEED AS NECESSARY AND MULCHED ACCORDING TO SPECIFICATIONS IN THE VEGETATIVE PLAN TO MAINTAIN A VIGOROUS, DENSE VEGETATIVE COVER. ALL PERIMETER DIKES, SWALES, DITCHES, PERIMETER SLOPES, ALL SLOPES STEEPER THAN 3:1 HORIZONTAL TO 1:1 VERTICAL (3:1) AND ALL HIGH QUALITY WATER (HOW) ZONES SHALL BE PROVIDED TEMPORARY OR PERMANENT STABILIZATION WITH GROUND COVER AS SOON AS PRACTICABLE BUT IN ANY EVENT WITHIN SEVEN (7) CALENDAR DAYS FROM THE LAST LAND-DISTURBING ACTIVITY. ALL OTHER DISTURBED AREAS SHALL BE PROVIDED TEMPORARY OR PERMANENT STABILIZATION WITH GROUND COVER AS SOON AS PRACTICABLE BUT IN ANY EVENT WITHIN FOURTEEN (14) CALENDAR DAYS FROM THE LAST LAND-DISTURBING ACTIVITY.



NOTES ON DETECTABLE WARNING FOR WHEEL CHAIR RAMPS

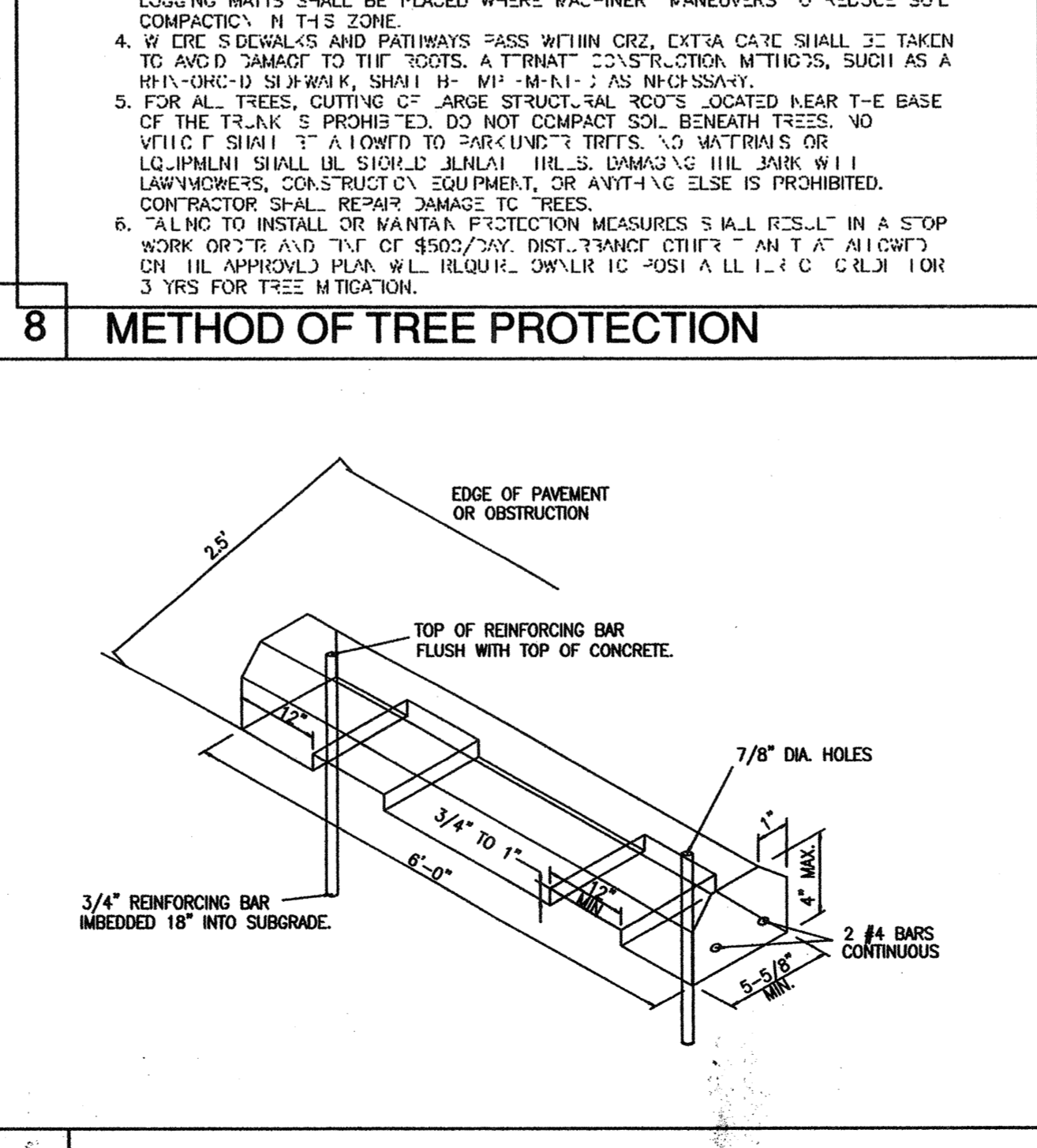
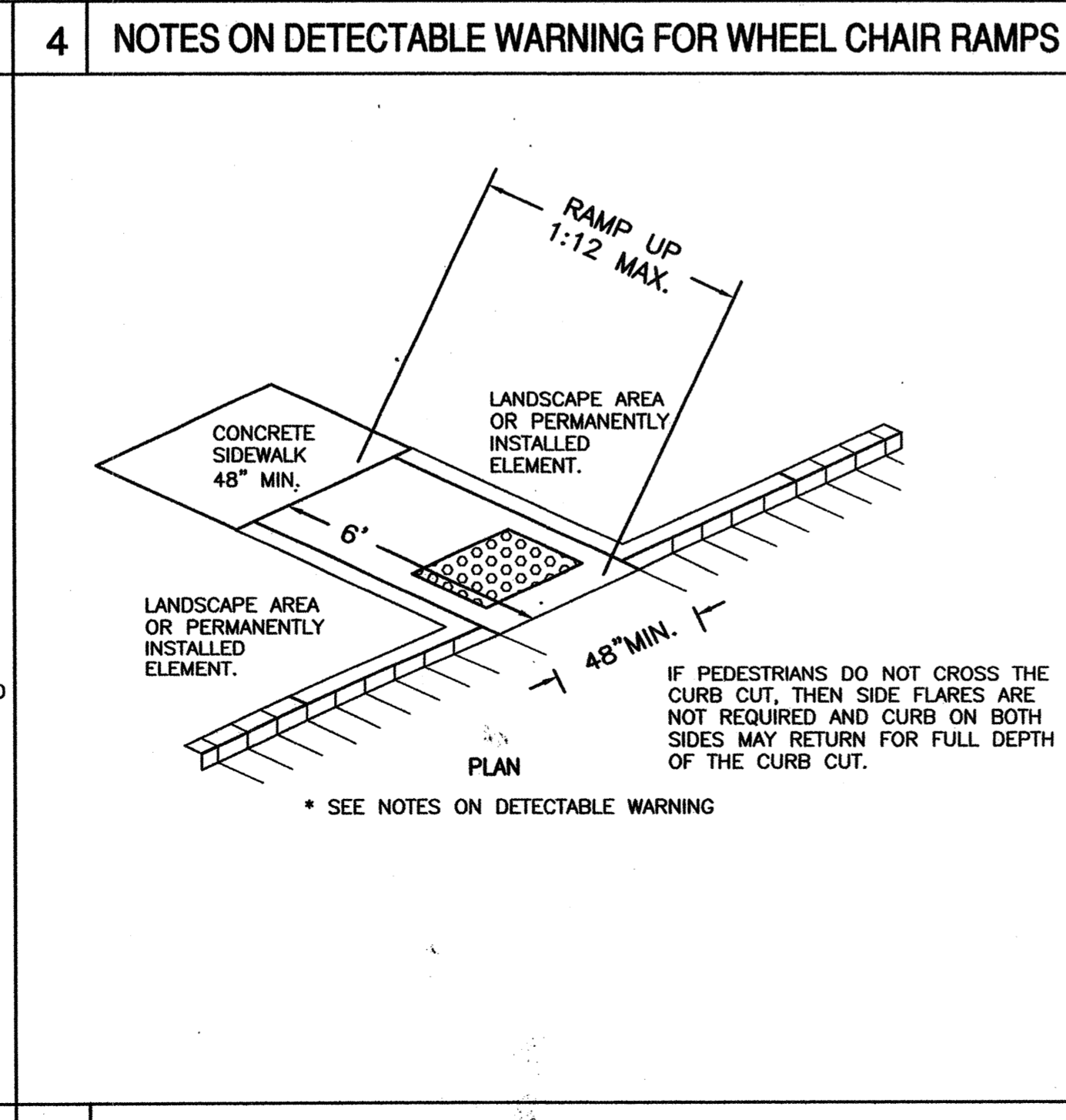
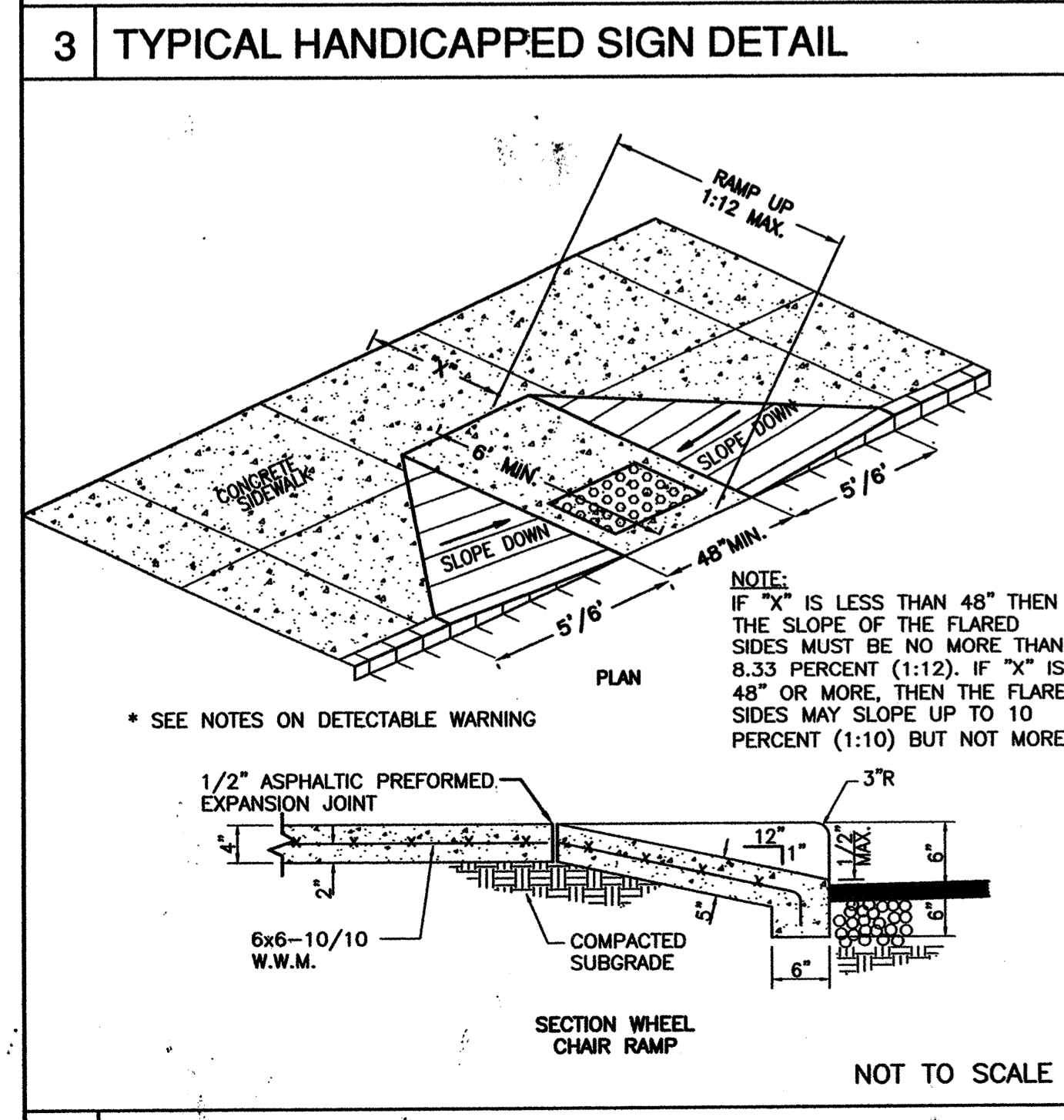
NOTE:

1. RAMP SHALL HAVE A DETECTABLE WARNING COMPLYING WITH ADA GUIDELINES.
2. THE DETECTABLE WARNINGS AT CURB RAMPS SHALL BE 24 INCHES MINIMUM IN THE DIRECTION OF TRAVEL AND EXTEND THE FULL WIDTH OF THE CURB RAMP OR FLUSH SURFACE.
3. MARKED CROSSINGS THAT ARE RAISED TO THE SAME LEVEL AS THE ADJOINING SIDEWALK SHALL BE PRECEDED BY A 24 INCH DEEP DETECTABLE WARNING EXTENDING THE FULL WIDTH OF THE MARKED CROSSING.
4. DETECTABLE WARNINGS SHALL CONSIST OF RAISED TRUNCATED DOMES WITH A DIAMETER OF NOMINAL 0.9 IN (23 MM), A HEIGHT OF NOMINAL 0.2 IN (5 MM) AND A CENTER-TO-CENTER SPACING OF NOMINAL 2.35 IN (60 MM) AND SHALL CONTRAST VISUALLY WITH ADJOINING SURFACES, EITHER LIGHT-ON-DARK, OR DARK-ON-LIGHT. THE MATERIAL USED TO PROVIDE CONTRAST SHOULD CONTRAST BY AT LEAST 70% - REFER TO ADA GUIDELINES FOR DEFINITION OF "CONTRAST".
5. THE MATERIAL USED TO PROVIDE CONTRAST SHALL BE AN INTEGRAL PART OF THE WALKING SURFACE. DETECTABLE WARNINGS USED ON INTERIOR SURFACES SHALL DIFFER FROM ADJOINING WALKING SURFACES IN RESILIENCY OR SOUND-ON-CANE CONTACT.



TEMPORARY/PERMANENT GRASS SPECIFICATION:

1. CHISEL COMPACTED AREAS AND SPREAD TOPSOIL 3 INCHES DEEP OVER ADVERSE SOIL CONDITIONS.
2. RIP THE ENTIRE AREA TO A 6 INCH DEPTH.
3. REMOVE ALL ROCKS, ROOTS AND OTHER OBSTRUCTIONS LEAVING SURFACES SMOOTH AND UNIFORM.
4. APPLY AGRICULTURAL LIME AND FERTILIZER UNIFORMLY AND MIX WITH SOIL. LIME: 45 LBS. PER 1000 S.F. PHOSPHOROUS: 20 LBS PER 1000 S.F. FERTILIZER: 17 LBS. PER 1000 S.F.
5. CONTINUE TILLAGE UNTIL A WELL PULVERIZED, FIRM, UNIFORM SEED BED IS PREPARED 4-6 INCHES DEEP.
6. SEED ON A FRESHLY PREPARED SEED BED AND COVER SEED LIGHTLY. 2 - 3 LBS PER 1000 S.F. (SEE MIXTURE BELOW)
7. MULCH IMMEDIATELY AFTER SEEDING AND ANCHOR MULCH. GRAIN STRAW & HAY AT 75 TO 100 LBS PER 1000 S.F. WOOD CHIPS AT 500 LBS. PER 1000 S.F. JUTE & MESH AS PER MANUFACTURER
8. ASPHALT FOR ANCHORING MULCH SHALL BE TYPE SS-1 EMULSION AND APPLIED AT A RATE OF 1000 GAL. PER ACRE FOR SLOPE STABILIZATION, AND 150 GAL. PER TON OF STRAW FOR ANCHORING STRAW.
9. INSPECT ALL SEEDED AREAS AND MAKE NECESSARY REPAIRS OR RESEED WITHIN THE PLANTING SEASON IF POSSIBLE. IF GRASS STAND SHOULD BE OVER 60% DAMAGED, REESTABLISH FOLLOWING ORIGINAL LIME, FERTILIZER AND SEEDING RATES.
10. CONSULT CONSERVATION INSPECTOR ON MAINTENANCE, TREATMENT, AND FERTILIZATION AFTER PERMANENT COVER IS ESTABLISHED.
11. SEED FOR TEMPORARY AND PERMANENT APPLICATIONS SHALL BE:
 - 20% CARPET GRASS
 - 28% BERMUDA GRASS
 - 20% TURF FESCUE
 - 10% CREEPING RED FESCUE
 - 20% ANNUAL RYE GRASS



CONCRETE WHEEL STOP DETAIL

NOTE:

1. PROTECT CRITICAL ROOT ZONE (CRZ) OF TREES PRIOR TO CONSTRUCTION. CLEARLY MARK THE TREES AND ERECT A PROTECTIVE BARRIER AT THE CRZ. BARRIER SHALL BE MAINTAINED UNTIL CONSTRUCTION IS COMPLETE.
2. CRZ BARRIERS SHALL BE 42 INCH HIGH WITH 4 INCH DIAMETER AT 6 INCH ON CENTER WITH 4 INCH SPACING PER PROTECTION AREA.
3. LOGGING MATS SHALL BE PLACED WHERE MANEUVERS TO REDUCE SOIL COMPACTNESS IN THIS ZONE.
4. IF TREE SIDEWALKS AND PATHWAYS PASS WITHIN CRZ, EXTRA CARE SHALL BE TAKEN TO AVOID DAMAGE TO THE ROOTS. A TYPICAL CONSTRUCTION METHOD, SUCH AS A REINFORCED SIDEWALK, SHALL BE MAINTAINED AS NECESSARY.
5. FOR ALL TREES, CUTTING OF LARGE STRUCTURAL ROOTS LOCATED NEAR THE BASE OF THE TRUNK IS PROHIBITED. DO NOT COMPACT SOIL BENEATH TREES. NO VEHICLE SHALL BE ALLOWED TO PARK UNDER TREES. NO MATERIALS OR EQUIPMENT SHALL BE STORED UNDER TREES. DAMAGE TO THE TREE WITH LAWNMOWERS, CONSTRUCTION EQUIPMENT, OR ANYTHING ELSE IS PROHIBITED. CONTRACTOR SHALL REPAIR DAMAGE TO TREES.
6. ALLOW TO INSTALL OR MAINTAIN PROTECTION MEASURES SHALL RESULT IN A STOP WORK ORDER AND FINE OF \$500/DAY. DISTURBANCE OTHER THAN ALLOWED OR UNAPPROVED SHALL BE SUBJECT TO CIVIL PENALTIES UP TO \$1,000 PER 3 YRS FOR TREE MITIGATION.

SITE WORK NOTES:

1. THE CONTRACTOR SHALL VISIT THE SITE TO BECOME FAMILIAR WITH FIELD CONSTRUCTION CONDITIONS.
2. CONTRACTOR SHALL COORDINATE WORK WITHIN NCDOT AND LOCAL RIGHT OF WAY WITH PROPER AUTHORITIES AND SHALL MEET ANY REQUIREMENTS AS TO TRAFFIC CONTROL AND CONNECTION TO EXISTING STREETS.
3. CLEARING AND GRUBBING: REMOVE ALL TREES AS REQUIRED UNLESS OTHERWISE NOTED TO REMAIN, STUMPS, ROOTS, SHRUBBERY, ASPHALT, CONCRETE, STRUCTURES, BURIED UTILITIES, STORAGE TANKS, ETC. WITHIN LIMITS OF CONSTRUCTION.
4. STRIPPING: BEFORE EXCAVATING OR FILLING, REMOVE ALL TOPSOIL, WOOD, LEAVES, AND ANY OTHER UNSUITABLE MATERIAL.
5. MUCKING: REMOVE ANY SOFT, ORGANIC SILT MATERIALS AND EXISTING BURIED CONSTRUCTION DEBRIS AS REQUIRED AND FILL TO SUBGRADE ELEVATIONS WITH A CLEAN SELECT-FILL COMPACTED AS SPECIFIED.
6. DISPOSAL: CLEARED, GRUBBED, STRIPPED OR EXCAVATED SPOIL SHALL BE REMOVED FROM SITE AND DISPOSED OF IN ACCORDANCE WITH ALL APPLICABLE LOCAL AND STATE CODES.
7. BORROW MATERIAL: THE CONTRACTOR SHALL FURNISH BORROW MATERIAL REQUIRED FROM OFF SITE AND OBTAIN ALL REQUIRED PERMITS ASSOCIATED WITH BORROW OPERATIONS.
8. FILL AND COMPACTON: AFTER STRIPPING THOSE AREAS DESIGNATED TO RECEIVE FILL SHOULD BE PROOFROLLED. THE TOP 8\"/>

WILMINGTON
NORTH CAROLINA

Public Services • Engineering Division

APPROVED STORMWATER MANAGEMENT PLAN

Date: 10/15/15 Permit # 2015038

Signed: *[Signature]*

Approved Construction Plan

Name: _____ Date: 10/15/15

Planning: *[Signature]*

Traffic: *[Signature]*

Fire: *[Signature]*

OCT 15 2015

*BERMUDA SEED SHALL BE HULLED FOR WARM WEATHER PLANTING. PURITY OF SEED SHALL BE A MIN. OF 98% AND GERMINATION SHALL BE A MIN. OF 85%.

ALL DISTURBED AREA SHALL BE SEEDED WITHIN 7-14 DAYS OF THE COMPLETION OF GRADING. SEE EROSION CONTROL AND MAINTENANCE NOTES. CONSULT CONSERVATION ENGINEER OR SOIL CONSERVATION SERVICE FOR ADDITIONAL INFORMATION CONCERNING OTHER ALTERNATIVES FOR VEGETATION OF DENUDATED AREAS. THE ABOVE VEGETATION RATES ARE THOSE WHICH DO WELL UNDER LOCAL CONDITIONS, OTHER SEEDING SCHEDULES MAY BE POSSIBLE.

SYMBOL	DATE	DESCRIPTION	BY
REVISIONS			
© 2014 NORRIS & TUNSTALL			

NOTES AND DETAILS

PHOENIX MART DEVELOPMENT

2238 S. 17th STREET
WILMINGTON, N.C.

OWNER/DEVELOPER

CANTERBURY CENTER, LLC
WILLIAM H. CAMERON, MANAGER
P.O. BOX 3649
WILMINGTON, NC 28406
910-762-2676

NORRIS & TUNSTALL

CONSULTING ENGINEERS, P.C.

902 MARKET STREET
WILMINGTON, NC 28401
PHONE (910) 343-9653
OFFICE (910) 343-9604
FAX (910) 343-9604
licences #C-5041

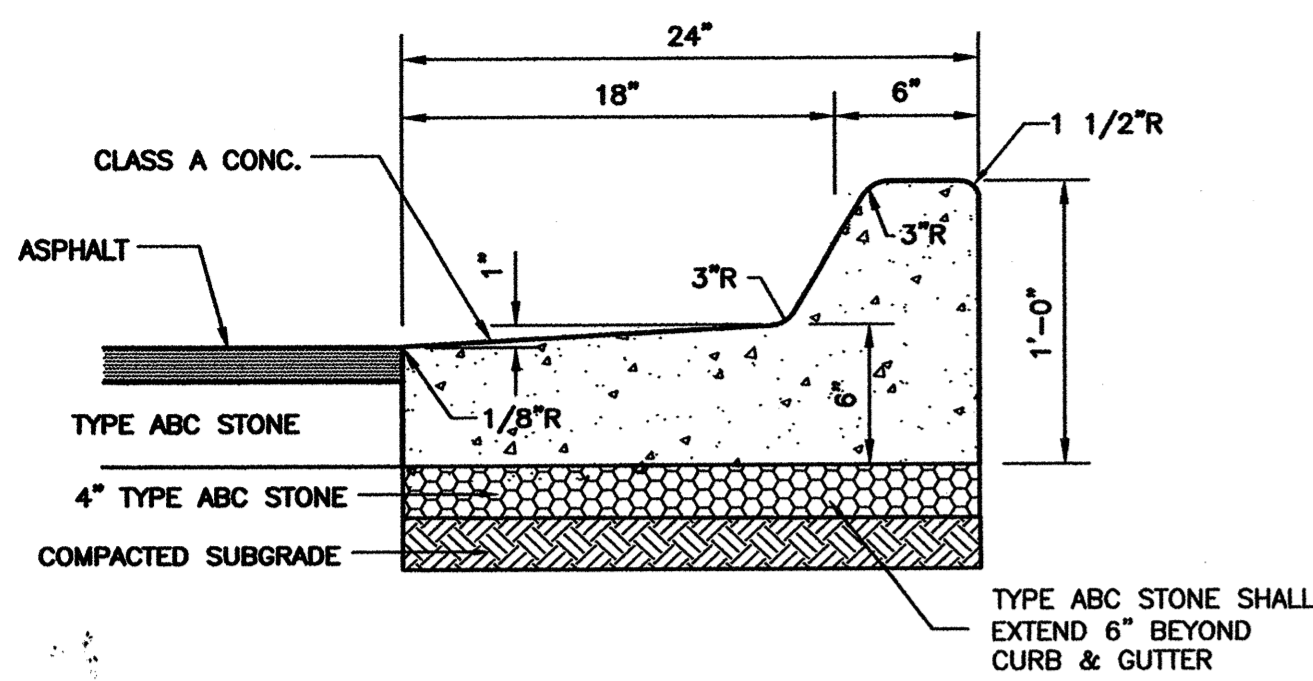
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DRWN. NKS

DATE 9/16/15

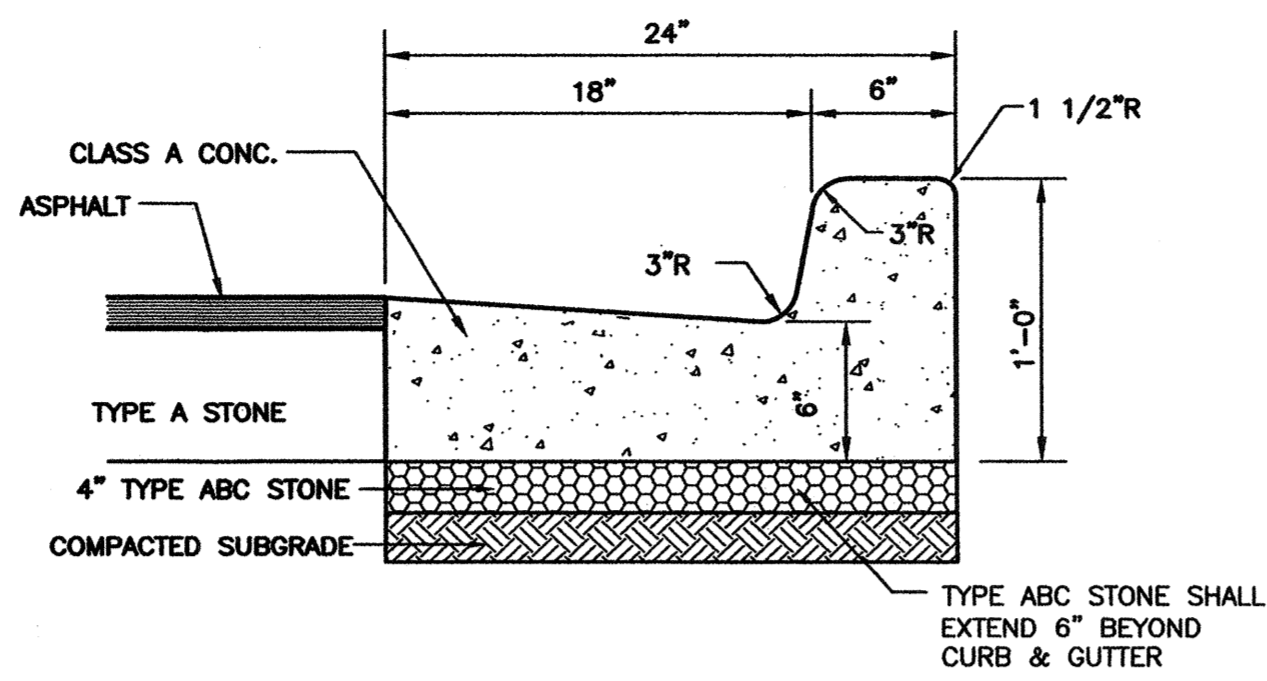
WILMINGTON
NORTH CAROLINA
SEAL 8881

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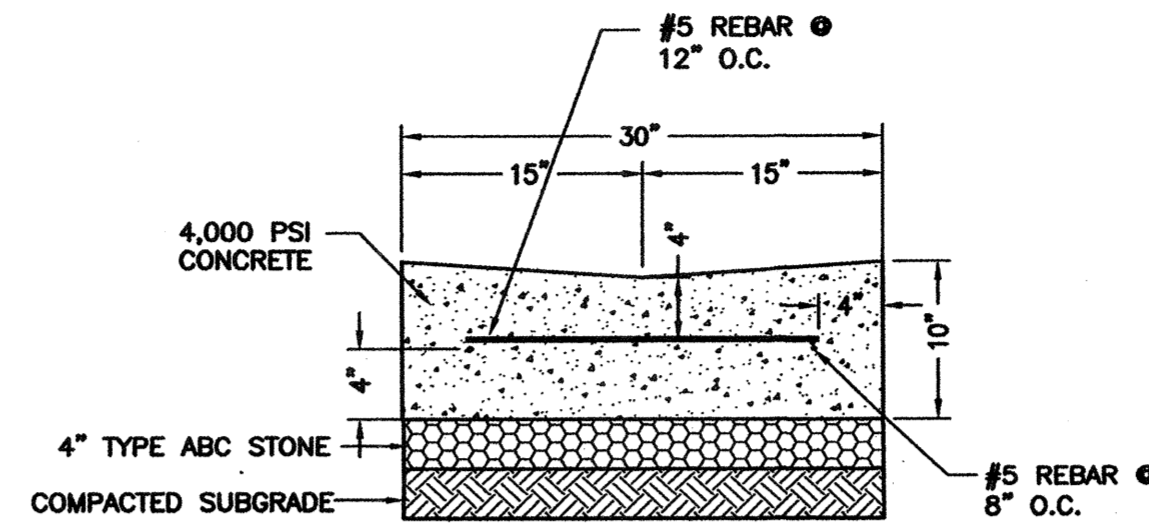
NOTE: CURB TYPE DEPENDS ON GRADES SHOWN ON GRADING PLAN. GRADES INDICATING FALL AWAY FROM CURB SHALL BE SPILL OFF TYPE CURB. GRADES INDICATING CURB ACCEPTING FLOW SHALL BE FLOW LINE TYPE.

NOT TO SCALE



NOTE: CURB TYPE DEPENDS ON GRADES SHOWN ON GRADING PLAN. GRADES INDICATING FALL AWAY FROM CURB SHALL BE SPILL OFF TYPE CURB. GRADES INDICATING CURB ACCEPTING FLOW SHALL BE FLOW LINE TYPE.

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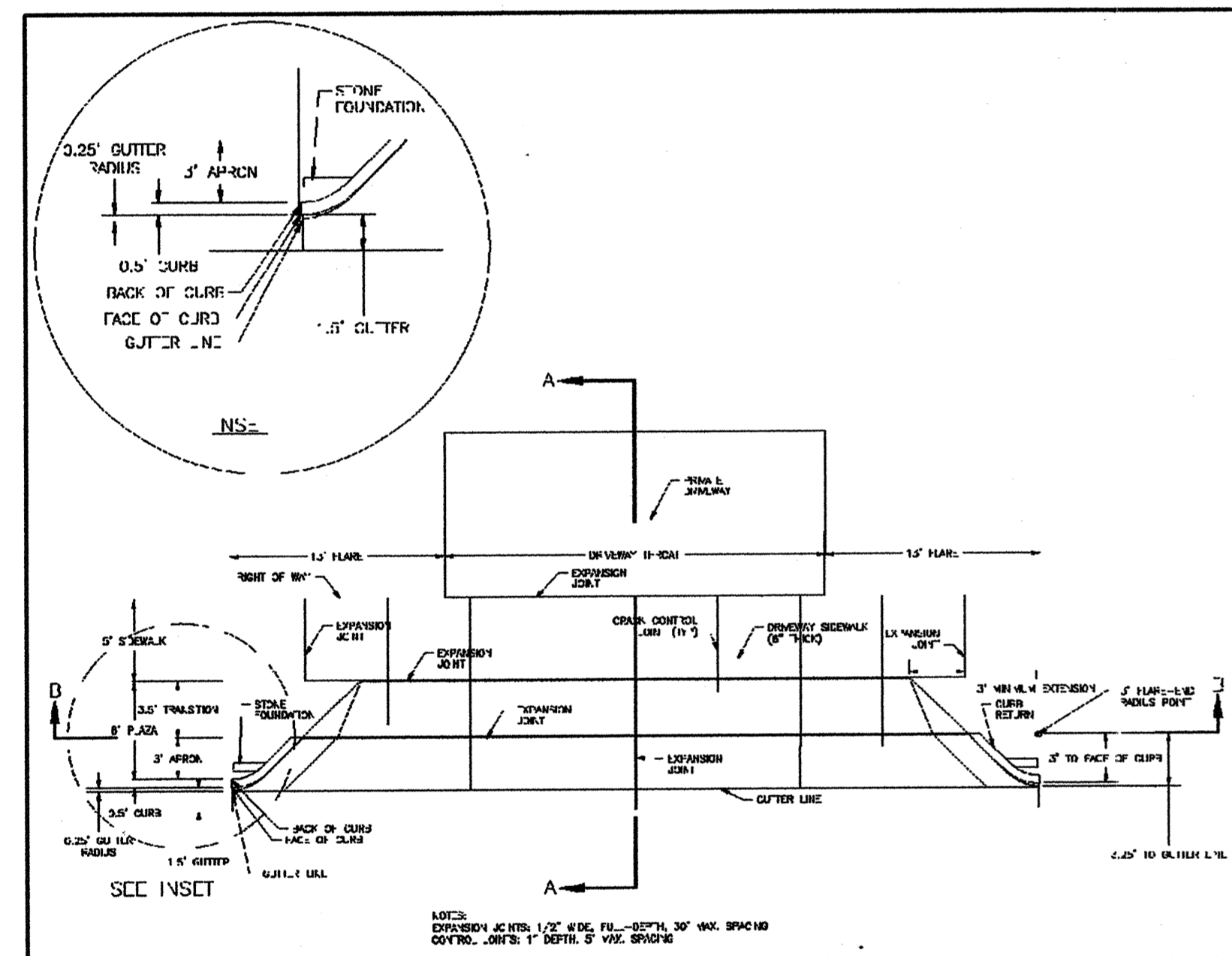


NOT TO SCALE

1 24" CURB AND GUTTER SECTION (SPILL-OFF)

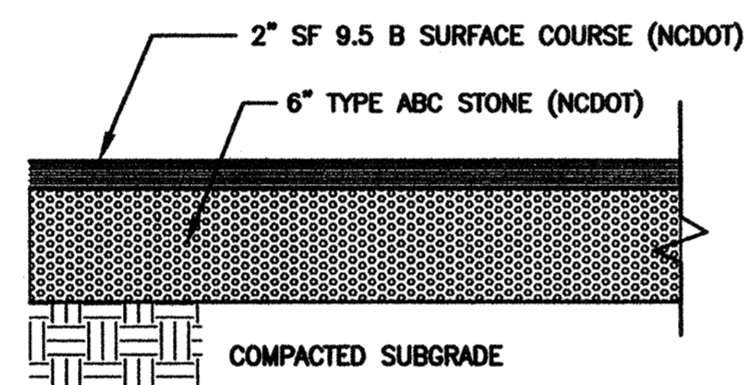
2 24" CURB AND GUTTER SECTION (FLOW-LINE)

3 30" REINFORCED VALLEY GUTTER DETAIL



NOT TO SCALE

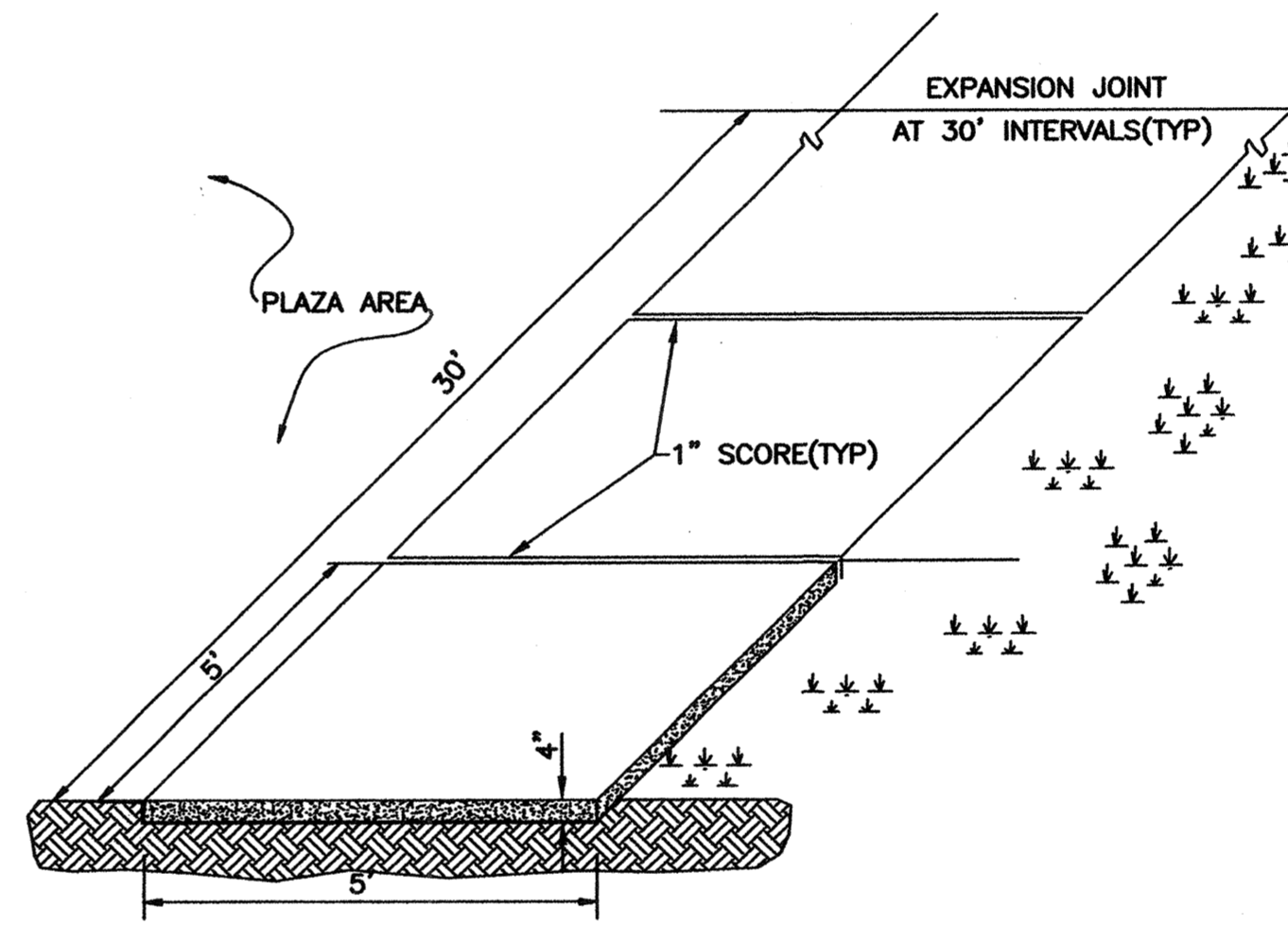
7 STANDARD CITY OF WILMINGTON DRIVE WAY DETAIL



NOTE: PAVEMENT SECTION MAY VARY DEPENDING UPON FIELD CONDITIONS. CONTRACTOR SHALL COORDINATE W/OWNER & GEOTECHNICAL ENGINEER TO DETERMINE ACTUAL PAVEMENT SECTION.

NOT TO SCALE

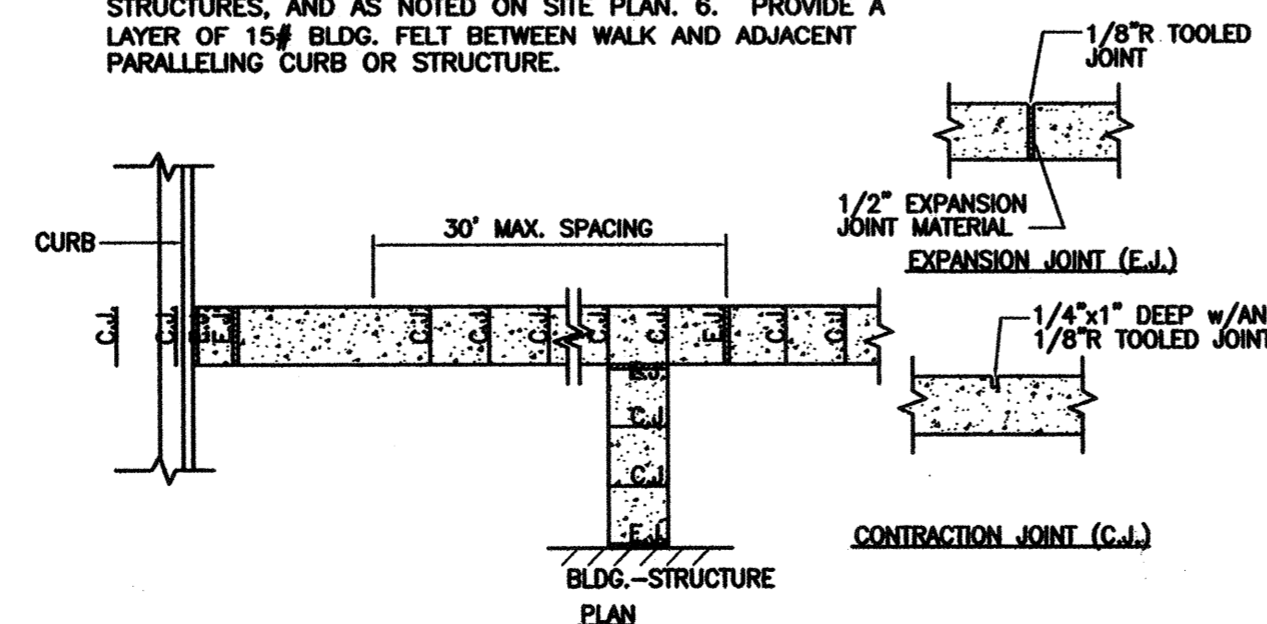
4 ASPHALT PAVEMENT SECTION (ON SITE)



NOT TO SCALE

6 STANDARD SIDEWALK DETAIL

NOTES:
 1. SIDEWALK THICKNESS SHALL BE 4" UNLESS NOTED OTHERWISE.
 2. CONTRACTION JOINTS (C.J.) SPACE SAME AS SIDEWALK WIDTH UNLESS OTHERWISE NOTED ON PLANS.
 3. THICKEN SIDEWALK TO 6" AT DRIVEWAYS.
 4. THICKEN SIDEWALK TO 6" IN LAST 3' WHERE IT ABUTS PAVEMENT WITH NO CURB.
 5. 1/2" EXPANSION JOINT (E.J.) AND SNAP CAP EXPANSION JOINT COVERS ARE REQUIRED AT 50' MAX. AT SIDEWALK JUNCTIONS, AT STRUCTURES, AND AS NOTED ON SITE PLAN. 6. PROVIDE A LAYER OF 1 1/2" FELT BETWEEN WALK AND ADJACENT PARALLELING CURB OR STRUCTURE.



NOT TO SCALE

8 SIDEWALK JOINT DETAIL

9 HEAVY DUTY CONCRETE PAVEMENT SECTION

CITY OF WILMINGTON
 NORTH CAROLINA
 Public Services • Engineering Division
 APPROVED STORMWATER MANAGEMENT PLAN
 Date: 10/15/15 Permit # 2015038
 Signed: [Signature]

Approved Construction Plan
 Name: [Name] Date: 10/15/15
 Planning: [Signature] 10/15/15
 Traffic: [Signature] 10-15-15
 Fire: [Signature] 10-15-15

CITY OF WILMINGTON STANDARD NOTES:

- CONTACT THE NORTH CAROLINA ONE CALL CENTER PRIOR TO DOING ANY DIGGING AT 1-800-632-4949.
- 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.
- ALL PAVEMENT MARKINGS IN PUBLIC RIGHTS-OF-WAY AND FOR DRIVEWAYS ARE TO BE THERMOPLASTIC AND MEET CITY AND/OR NCDOT STANDARDS.
- ALL PARKING STALL MARKINGS AND LANE ARROWS WITHIN THE PARKING AREAS SHALL BE WHITE.
- INSTALL REFLECTORS PER CITY AND NCDOT STANDARDS. TRAFFIC ENGINEERING MUST APPROVE OF PAVEMENT MARKING LAYOUT PRIOR TO ACTUAL STRIPING.
- ALL TRAFFIC CONTROL SIGNS AND MARKINGS OFF THE RIGHT-OF-WAY ARE TO BE MAINTAINED BY THE PROPERTY OWNER IN ACCORDANCE WITH MUTCD STANDARDS.
- TRAFFIC CONTROL DEVICES (INCLUDING SIGNS AND PAVEMENT MARKINGS) IN AREAS OPEN TO PUBLIC TRAFFIC ARE TO MEET MUTCD (MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES) STANDARDS.
- IT SHALL BE THE RESPONSIBILITY OF THE SUBDIVIDER TO ERECT OFFICIAL STREET NAME SIGNS AT ALL INTERSECTIONS ASSOCIATED WITH THE SUBDIVISION IN ACCORDANCE WITH THE TECHNICAL STANDARDS AND SPECIFICATIONS MANUAL. THE SUBDIVIDER MAY ACQUIRE AND ERECT OFFICIAL STREET NAME SIGNS OR MAY CHOOSE TO CONTRACT WITH THE CITY TO INSTALL THE STREET SIGNS AND THE SUBDIVIDER SHALL PAY THE COST OF SUCH INSTALLATION. CONTACT TRAFFIC ENGINEERING AT 341-7888 TO DISCUSS INSTALLATION OF TRAFFIC AND STREET NAME SIGNS. POSTED STREET NAMES MUST BE APPROVED PRIOR TO INSTALLATION OF STREET NAME SIGNS.
- CONTACT TRAFFIC ENGINEERING AT 341-7888 FORTY-EIGHT HOURS PRIOR TO ANY EXCAVATION IN THE RIGHT-OF-WAY.
- 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.
- ANY BROKEN OR MISSING SIDEWALK PANELS, DRIVEWAY PANELS, AND CURBING WILL BE REPLACED.
- CONTACT TRAFFIC ENGINEERING AT 341-7888 TO DISCUSS STREET LIGHTING OPTIONS.
- PROJECT SHALL COMPLY WITH CFPWA CROSS CONNECTION CONTROL REQUIREMENTS. WATER METER(S) CANNOT BE RELEASED UNTIL ALL REQUIREMENTS ARE MET AND THE STATE HAS GIVEN THEIR FINAL APPROVAL. CALL 343-3910 FOR INFORMATION.
- IF THE CONTRACTOR DESIRES CFPWA WATER FOR CONSTRUCTION HE SHALL APPLY FOR AN ADVANCE FOR THIS SERVICE AND MUST PROVIDE A REDUCED PRESSURE ZONE (RPZ) BACKFLOW PREVENTION DEVICE ON THE DEVELOPER'S SIDE OF THE WATER METER BOX.
- ANY IRRIGATION SYSTEM SUPPLIED BY CFPWA WATER SHALL COMPLY WITH CFPWA CROSS CONNECTION CONTROL REGULATIONS. CALL 332-6558 FOR INFORMATION.
- ANY BACKFLOW PREVENTION DEVICES REQUIRED BY CFPWA WILL NEED TO BE ON THE LIST OF APPROVED DEVICES BY USFCOCHR OR ASSE.
- WHEN PVC WATER MAINS AND/OR POLYETHYLENE SERVICES ARE PROPOSED, THE PIPES ARE TO BE MARKED WITH NO. 10 INSULATED SINGLE STRAND COPPER WIRE INSTALLED THE ENTIRE LENGTH AND SECURED TO ALL VALVES. THIS WIRE IS TO BE ACCESSIBLE AT ALL FIRE HYDRANTS AND WATER METER BOXES TO AID IN FUTURE LOCATION OF FACILITIES.
- THE NUMBER AND SPACING OF DRIVEWAYS FOR ALL INTERCONNECTED SITES WILL BE DETERMINED BY THE COMBINED FRONTAGE OF THE INTERCONNECTED PROPERTIES.
- UNDERGROUND FIRE LINE MUST BE PERMITTED AND INSPECTED BY THE WILMINGTON FIRE DEPARTMENT FROM THE PUBLIC ROW TO THE BUILDING. CONTACT THE WILMINGTON FIRE DEPARTMENT DIVISION OF FIRE AND LIFE SAFETY AT 910-343-0696 FOR ADDITIONAL INFORMATION.
- A LANDSCAPE PLAN INDICATING THE LOCATION OF REQUIRED STREET TREES SHALL BE SUBMITTED TO THE CITY OF WILMINGTON TRAFFIC ENGINEERING DIVISION AND PARKS AND RECREATION DEPARTMENT FOR REVIEW AND APPROVAL PRIOR TO THE RECORDING OF THE FINAL PLAN.
- IF AN IRRIGATION SYSTEM IS PLANNED FOR THE SITE, UTILIZE MOISTURE SENSORS.
- ALL PROPOSED VEGETATION WITHIN THE SIGHT TRIANGLES SHALL NOT INTERFERE WITH CLEAR VISUAL SIGHT LINES FROM 30'-10'.

UTILITY NOTES FOR FIRE HYDRANTS:

- FIRE HYDRANTS MUST BE WITHIN 150' OF THE FIRE DEPARTMENT CONNECTION.
- THE FIRE DEPARTMENT CONNECTION MUST BE WITHIN 40' OF FIRE APPARATUS PLACEMENT.
- LANDSCAPING AND PARKING CANNOT BLOCK OR IMPEDE THE FIRE DEPARTMENT CONNECTIONS OR FIRE HYDRANTS. A 3' CLEAR SPACE SHALL BE MAINTAINED AROUND THE CIRCUMFERENCE OF THE FIRE HYDRANT CONNECTION AND THE FIRE HYDRANT.
- FIRE HYDRANTS MUST BE LOCATED WITHIN 8' OF THE CURB.
- NEW HYDRANTS MUST BE AVAILABLE FOR USE PRIOR TO CONSTRUCTION OF THE BUILDINGS.
- NEW HYDRANTS MUST BE BROUGHT INTO SERVICE PRIOR TO COMBUSTIBLE MATERIALS BEING DELIVERED TO THE JOB SITE.
- THE CONTRACTOR SHALL MAINTAIN AN ALL WEATHER ACCESS FOR EMERGENCY VEHICLES AT ALL TIMES DURING CONSTRUCTION.
- TEMPORARY STREET SIGNS SHALL BE INSTALLED AT EACH STREET INTERSECTION WHEN CONSTRUCTION OF NEW ROADWAYS ALLOWS PASSAGE BY VEHICLES.
- UNDERGROUND FIRE LINE AND PRIVATE WATER MAINS MUST BE PERMITTED AND INSPECTED BY THE WILMINGTON FIRE DEPARTMENT FROM THE PUBLIC RIGHT-OF-WAY TO THE BUILDING. CONTACT THE WILMINGTON FIRE DEPARTMENT DIVISION OF FIRE AND LIFE SAFETY AT 910-343-0696 FOR ADDITIONAL INFORMATION.
- A MINIMUM OF 5' SHALL SEPARATE UNDERGROUND FIRE LINES OR PRIVATE WATER MAINS FROM OTHER UNDERGROUND UTILITIES.
- HYDRANTS SHALL BE OF SUFFICIENT NUMBERS TO ACCOMMODATE BASE FIRE FLOW REQUIREMENTS OF THE STRUCTURE.
- BUILDING CONSTRUCTION TYPE: V-B

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

RECEIVED
 OCT 16 2015
 PLANNING DIVISION

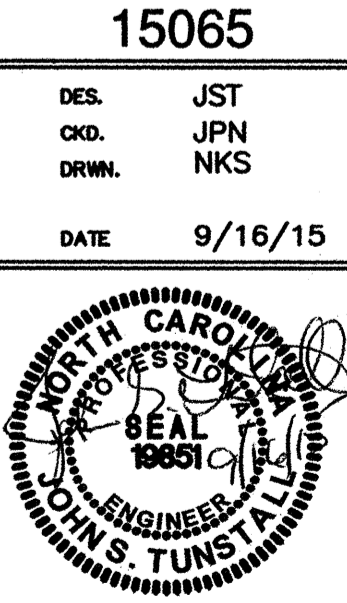
SYMBOL	DATE	DESCRIPTION	BY
REVISIONS			

NOTES AND DETAILS
 PHOENIX MART DEVELOPMENT
 2238 S. 17th STREET
 WILMINGTON, N. C.

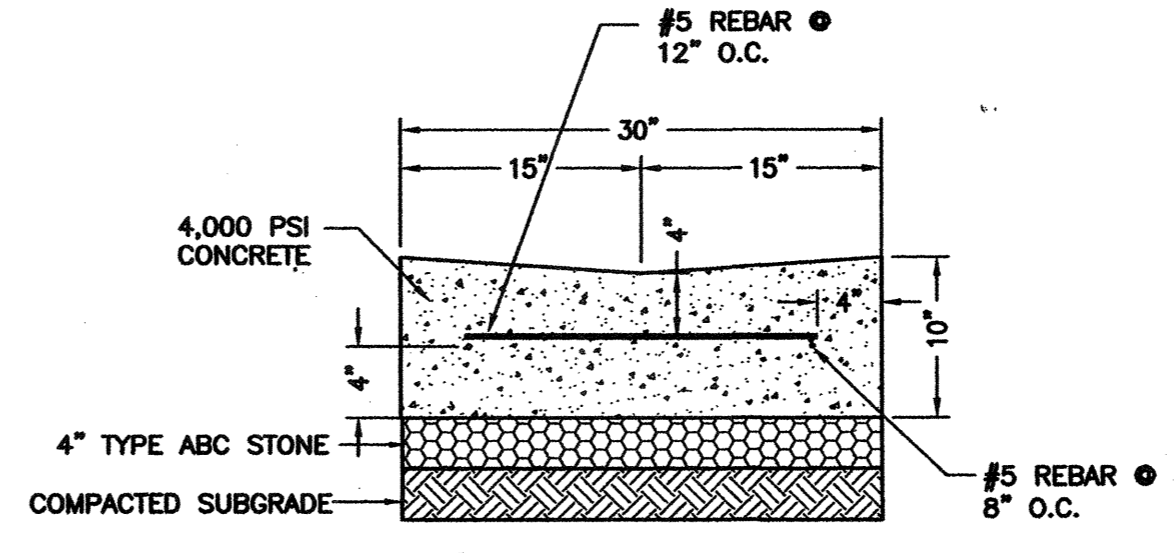
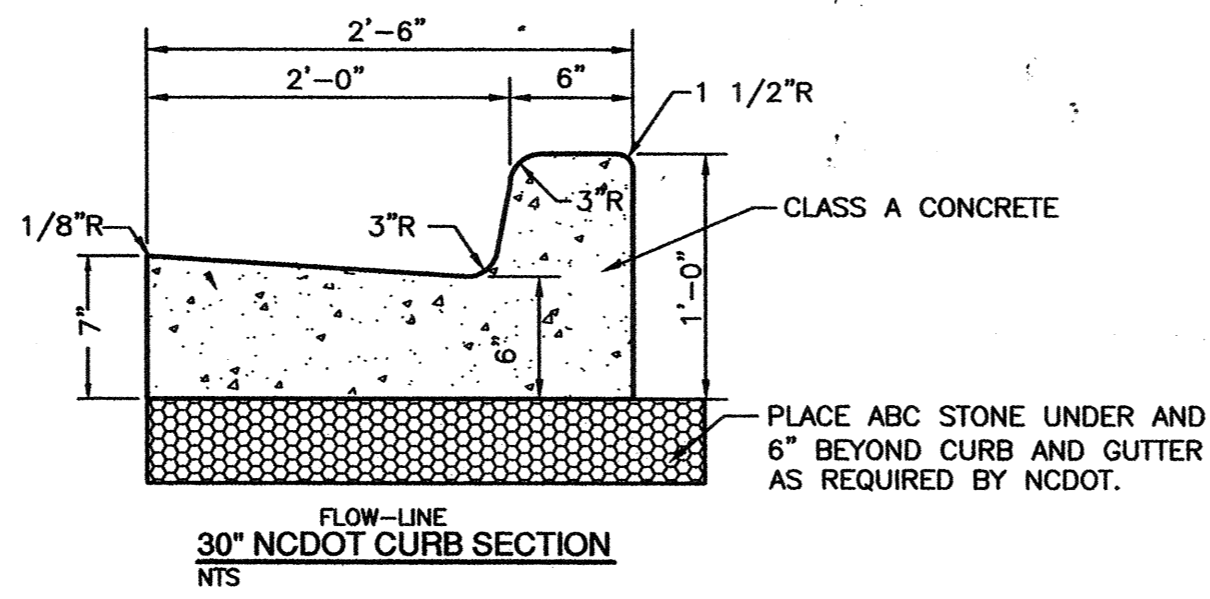
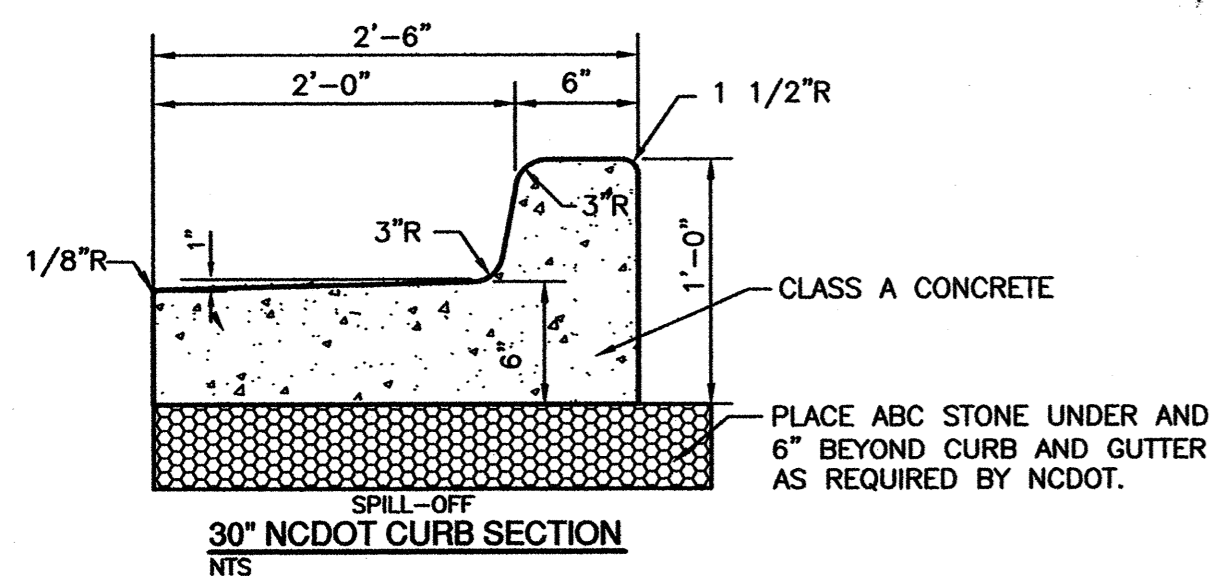
OWNER/DEVELOPER
 CANTERBURY CENTER, LLC
 WILLIAM H. CAMERON, MANAGER
 P.O. BOX 9849
 WILMINGTON, NC 28406
 910-762-2676

NORRIS & TUNSTALL
 CONSULTING ENGINEERS, P.C.
 902 MARKET STREET
 WILMINGTON, NC 28401
 PHONE (910) 343-9853
 FAX (910) 343-9804
 office@nrteng.com
 license #C-3641

15065
 DES. JST
 CDD. JPN
 DRWN. NKS
 DATE 9/16/15



C7



REFER TO NCDOT STANDARD 846.01

NOT TO SCALE

REFER TO NCDOT STANDARD 846.01

NOT TO SCALE

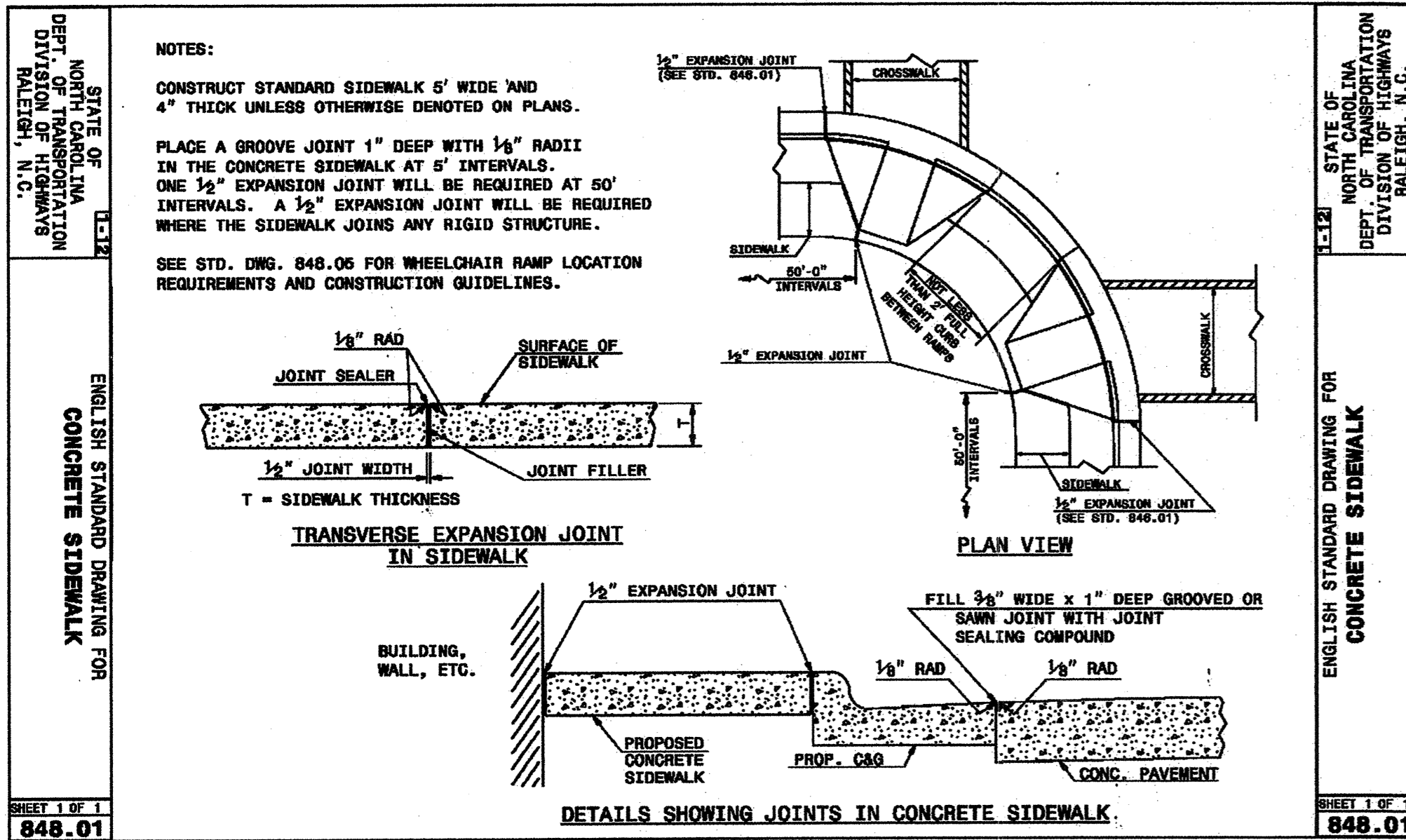
REFER TO NCDOT STANDARD 846.01

NOT TO SCALE

1 30" NCDOT CURB AND GUTTER SECTION (SPILL-OFF)

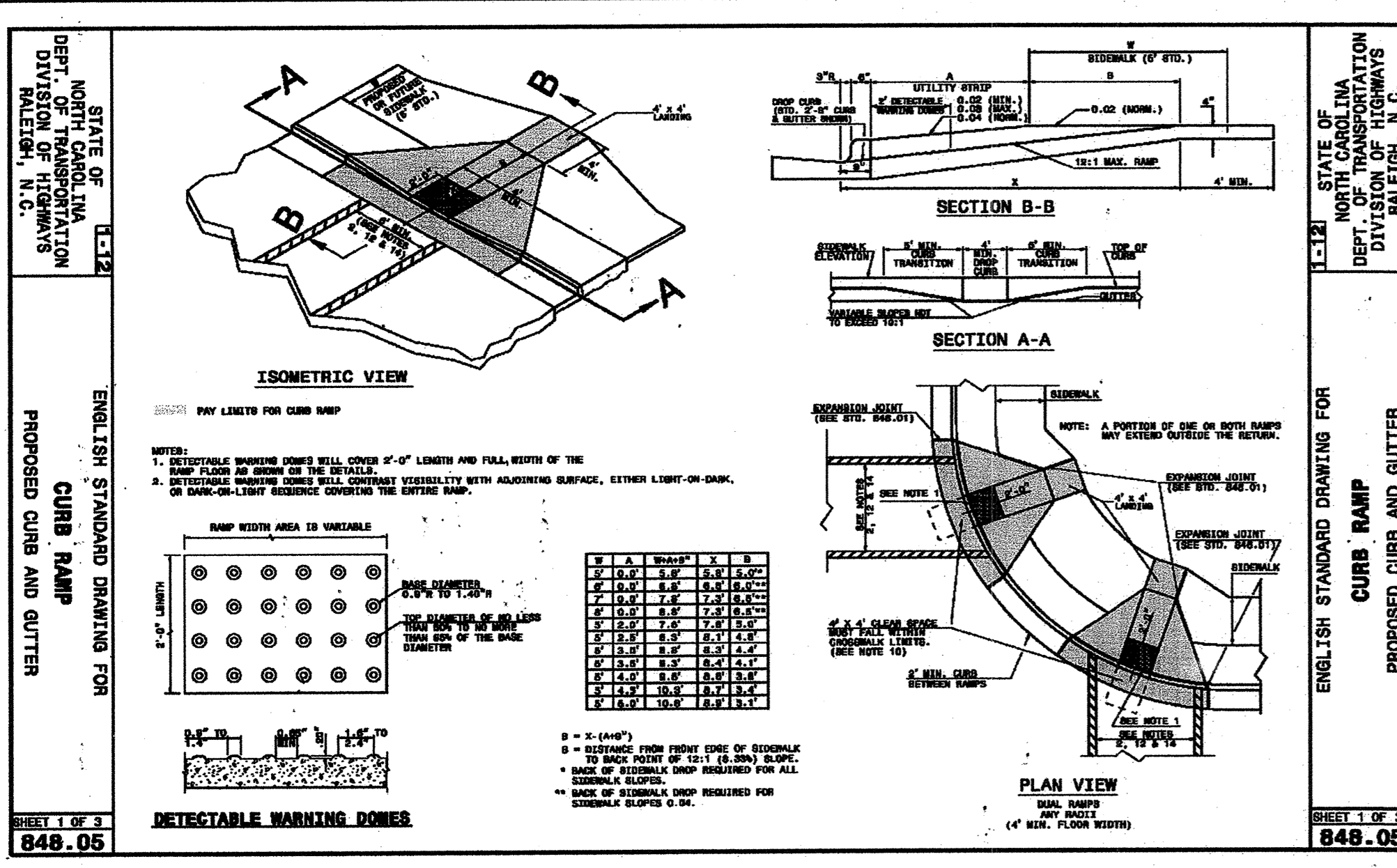
2 30" NCDOT CURB AND GUTTER SECTION (FLOW-LINE)

3 30" REINFORCED VALLEY GUTTER DETAIL



SHEET 1 OF 1
848.01

SHEET 1 OF 1
848.01

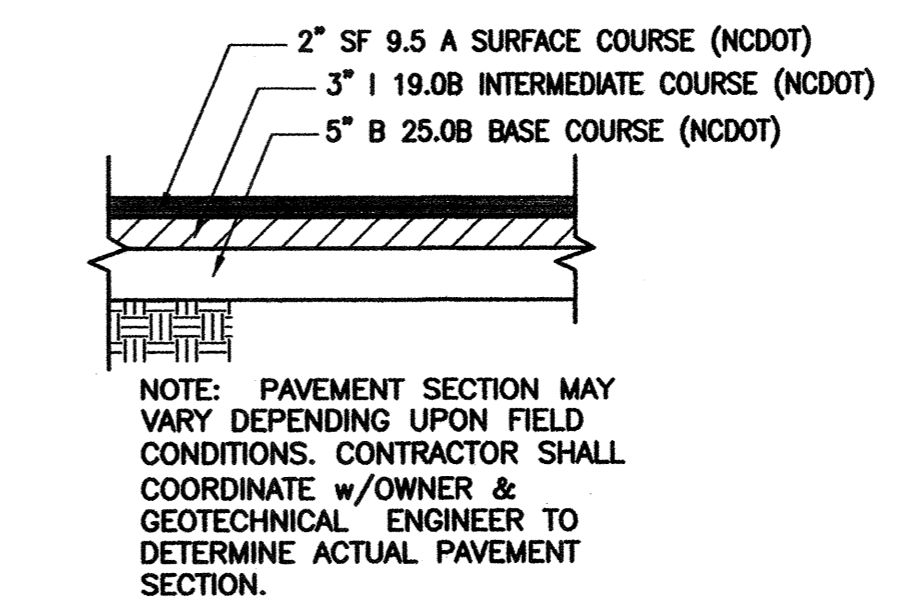


SHEET 1 OF 3
848.05

SHEET 1 OF 3
848.05

4 NCDOT SIDEWALK DETAIL

5 ASPHALT PAVEMENT SECTION (NCDOT ROW)



NOT TO SCALE

NOT TO SCALE

6 PAVEMENT SECTION AT MEDIAN

WILMINGTON
NORTH CAROLINA
Public Services • Engineering Division
APPROVED STORMWATER MANAGEMENT PLAN

Approved Construction Plan

Name: *[Signature]* Date: 10/15/15
 Planning: *[Signature]* 10/15/15
 Traffic: *[Signature]* 10/15/15
 Fire: *[Signature]* 10/15/15

Date: 10/15/15 Permit # 2015034
 Signed: *[Signature]*

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

RECEIVED
OCT 15 2015
PLANNING DIVISION

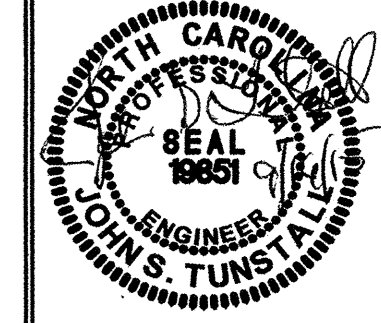
SYMBOL	DATE	DESCRIPTION	BY
REVISIONS			
© 2015 NORRIS & TUNSTALL			

NCDOT NOTES AND DETAILS
PHOENIX MART DEVELOPMENT
2238 S. 17th STREET
WILMINGTON, N. C.

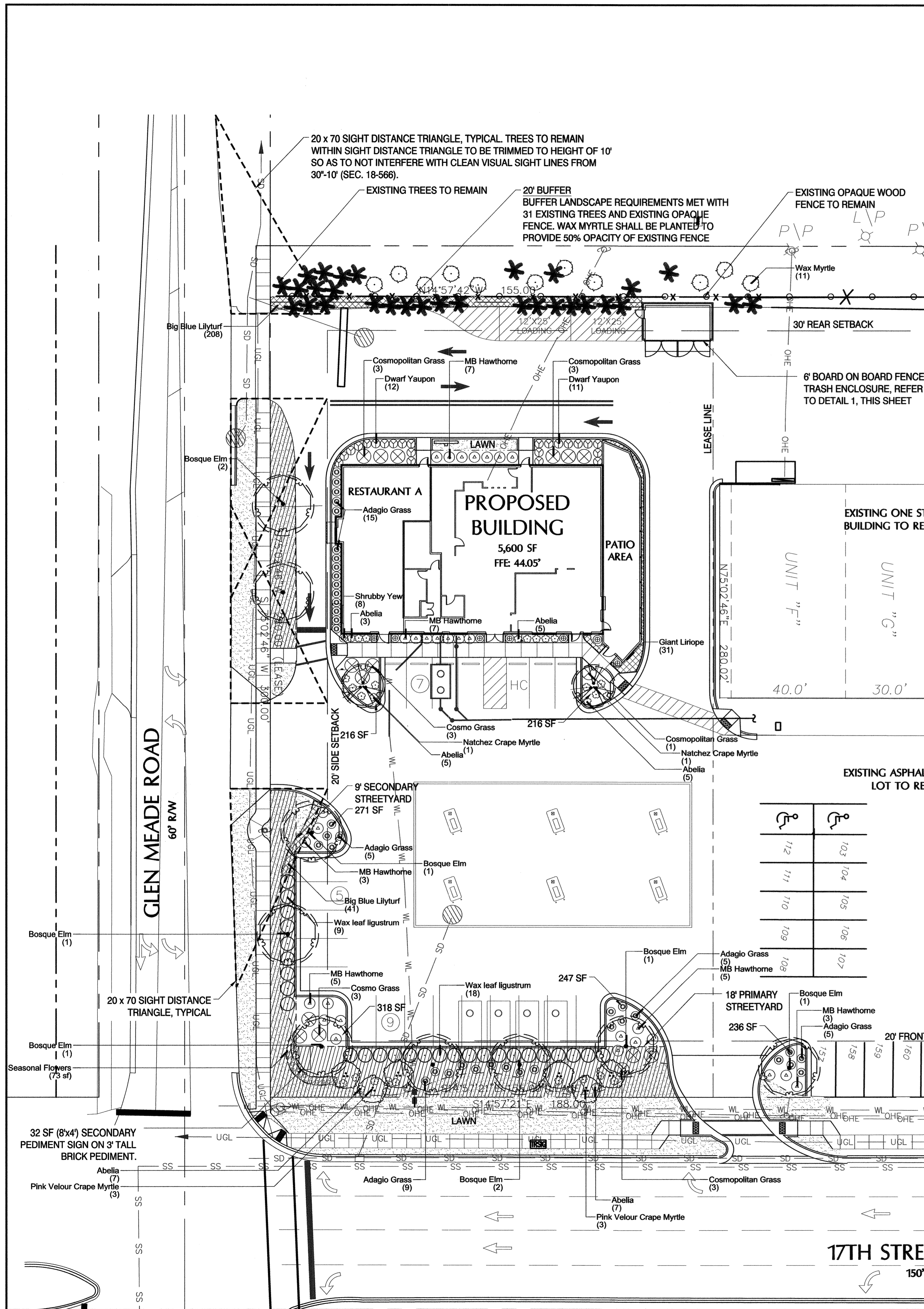
OWNER/DEVELOPER
CANTERBURY CENTER, LLC
WILLIAM H. CAMERON, MANAGER
P.O. BOX 3649
WILMINGTON, NC 28406
910-782-2876

NORRIS & TUNSTALL
CONSULTING ENGINEERS, P.C.
902 MARKET STREET
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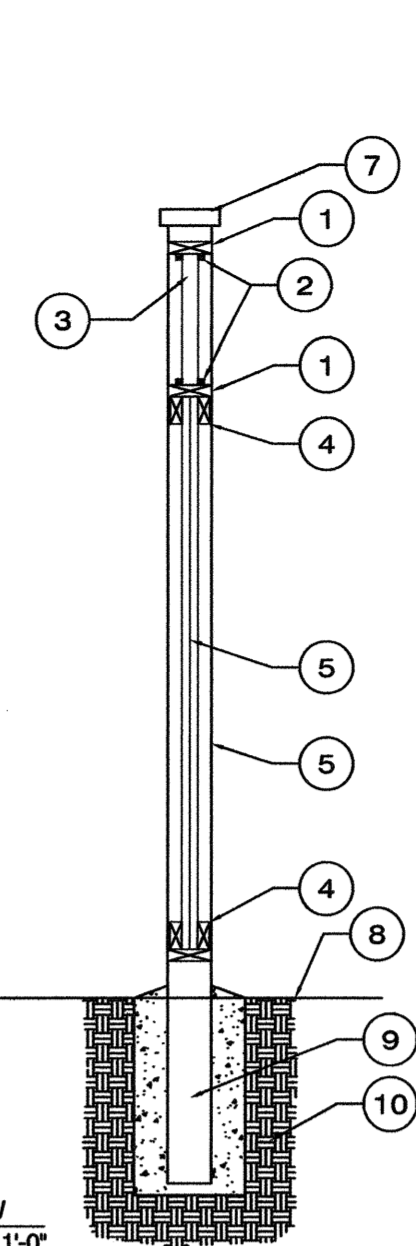
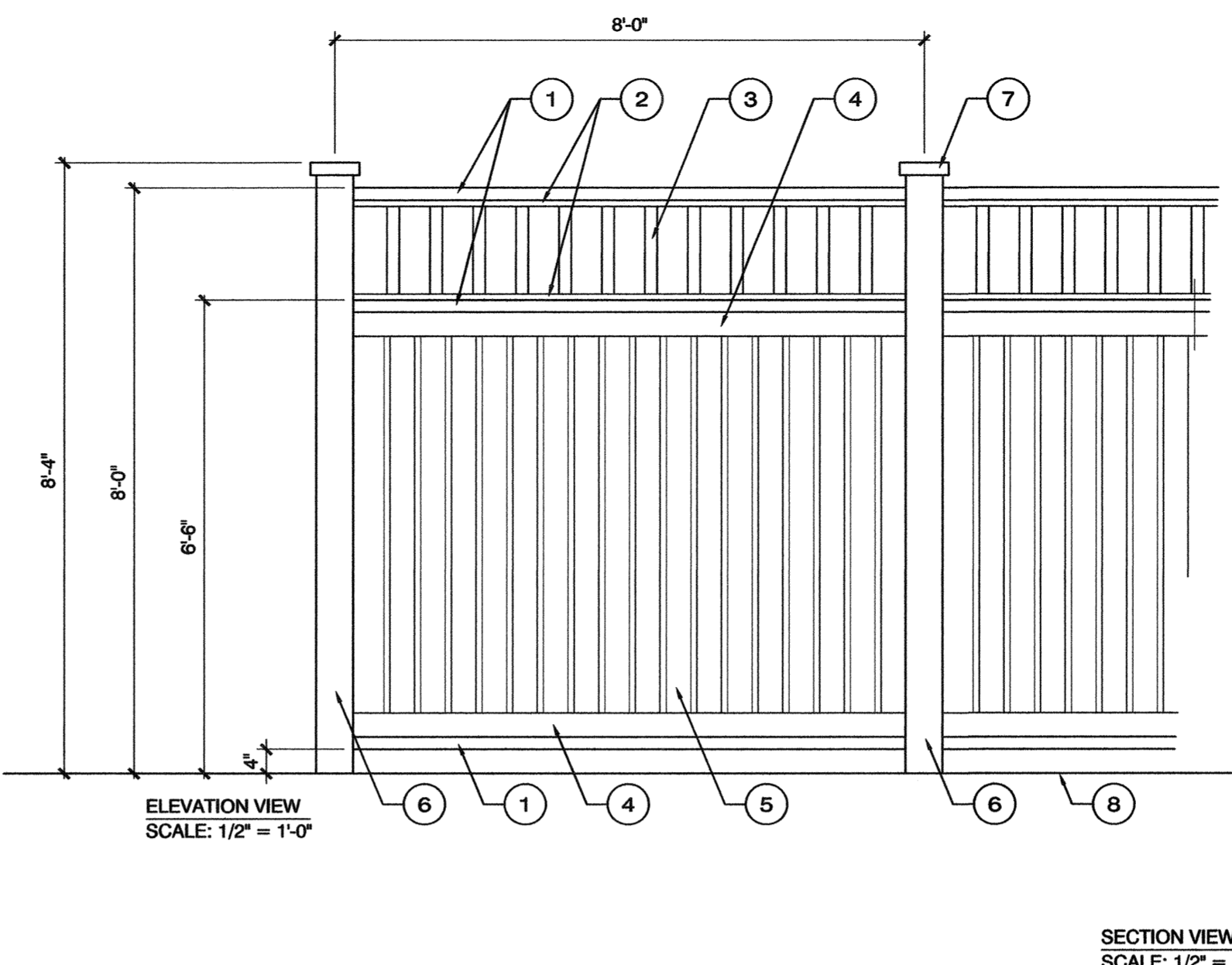
15065
DES. JST
OCD. JPN
DRWN. NKS
DATE 9/16/15



C8



DETAIL 1. 6' BOARD ON BOARD FENCE TRASH ENCLOSURE



- LEGEND**
1. 2 x 6 CAP
 2. 1 x 1 NAILER
 3. 2 x 2 PICKET
 4. 2 x 4 STRINGER
 5. 1 x 6 VERTICAL BOARDS - 1" OVERLAP
 6. 6 x 6 POSTS AT 8'-0" O.C.
 7. DECORATIVE POST CAP
 8. FINISH GRADE
 9. CONCRETE FOOTING
 10. COMPACTED SUBGRADE

NOTES:

- PAINT COLOR: TO BE SELECTED
- TREAT ALL EXPOSED SURFACES WITH (2) TWO COATS MOISTURE-PROOF PRIMER AND (2) COATS ENAMEL.
- ALL CONNECTORS, FASTENERS AND OTHER HARDWARE SHALL BE HOT DIPPED GALVANIZED

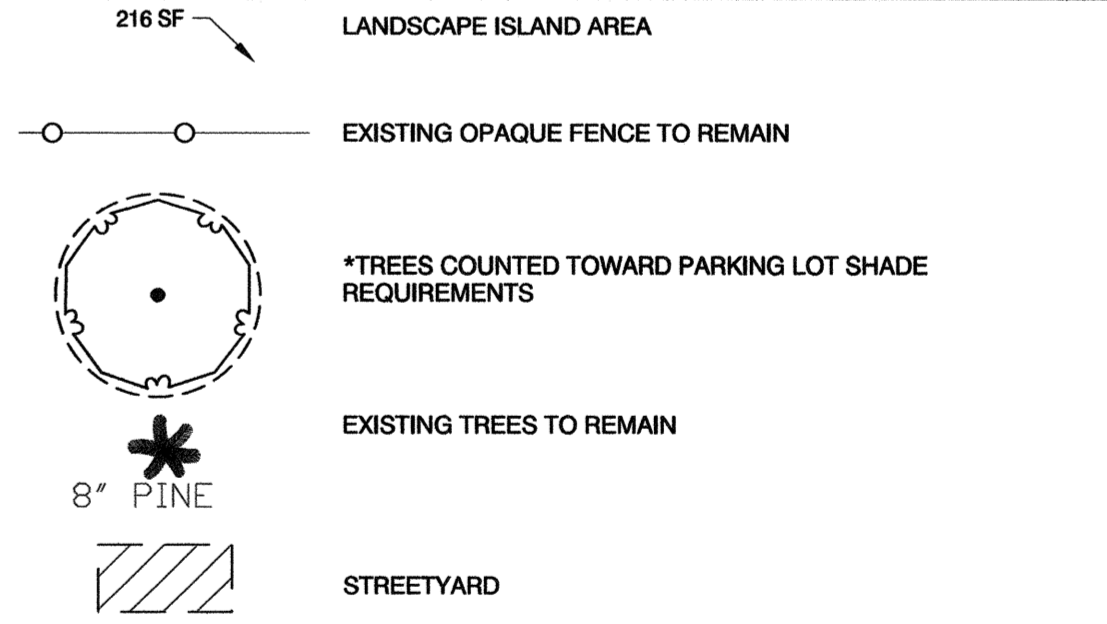
PLANT SCHEDULE

TREES	BOTANICAL NAME / COMMON NAME	CONT	CAL	RANGE	HT	QTY
	Lagerstroemia L. 'Pink Velour' / Pink Velour Crape Myrtle	25 GAL	1-1.5" CAL	7-8'	HT	6
	Lagerstroemia x 'Natchez' / Natchez Crape Myrtle	8 & B	3" CAL	10-12'	HT	2
	Ulmus p. 'Bosque' / Bosque Elm	--	3.5-4" CAL	12-14'	HT	9
SHRUBS	BOTANICAL NAME / COMMON NAME	SIZE	RANGE	HT	QTY	
	Abelia x grandiflora 'Rose Creek' / Abelia	3 gal	18-24"	HT	32	
	Ilex v. 'Nana' / Dwarf Yaupon	3 gal	18-24"	HT	23	
	Ligustrum j. 'Recurvifolium' / Wax leaf ligustrum	7 gal	36"	HT	27	
	Miscanthus s. 'Adagio' / Adagio Grass	3 gal	18-24"	HT	39	
	Miscanthus s. 'Cosmopolitan' / Cosmopolitan Grass	3 gal	18-24"	HT	16	
	Myrica carifera / Wax Myrtle	7 gal	36"	HT MIN.	11	
	Podocarpus macrophyllus makii / Shrubby Yew	15 gal	4-5"	HT	8	
	Rhipidophis x d. 'Majestic Beauty' TM / MB Hawthorne	7 gal	24-30"	HT	30	
GROUND COVERS	BOTANICAL NAME / COMMON NAME	SIZE	RANGE	HT	SPACING	QTY
	Liriope gigantea / Giant Liriope	1 GAL	12-18"	HT	24" o.c.	31
	Liriope m. 'Big Blue' / Big Blue Lilyturf	4" POTS	12-15"	HT	18" o.c.	249
	Perennial & Annual Color / Seasonal Flowers	--	--	--	--	73 sf
SOD/SEED	BOTANICAL NAME / COMMON NAME	SIZE	RANGE	HT	SPACING	QTY
	Eremochloa ophiuroides / Centipede Sod	sod	--	--	--	6,473 sf

LANDSCAPE REQUIREMENTS

LANDSCAPE REQUIREMENTS	REQUIRED	PROVIDED
STREET YARD		
PRIMARY STREET YARD (S. 17TH STREET) (155LF - 13LF)x18	2,556 SF	2,556 SF
TREES: 2,556 SF/600	5	3 CANOPY TREES, 6 UNDERSTORY TREES
SHRUBS: (2,556/600)*6	30	46
SECONDARY STREET YARD (GLEN MEADE RD.) (300 LF-60 LF)*9 =	2,160 SF	2,160 SF
TREES: (2,160 SF/600)	4	5
SHRUBS: (2,160 SF/600)*6	24	9
PARKING LOT SHADE REQUIREMENTS	5,753 SF	6,010 SF
6 CANOPY TREES * 707 SF =		4,242 SF
5 CANOPY TREES * 353.5 SF =		1,768 SF
FOUNDATION PLANTINGS	915 SF	1,227 SF
12(305 LF)(25) =		
15 TREES PER DISTURBED ACRE	REQUIRED 14 TREES	REQUIRED 31 EXISTING TREES
.91 ACRES DISTURBED*15 =		17 TREES PROPOSED
		48 TREES TOTAL

SYMBOL LEGEND

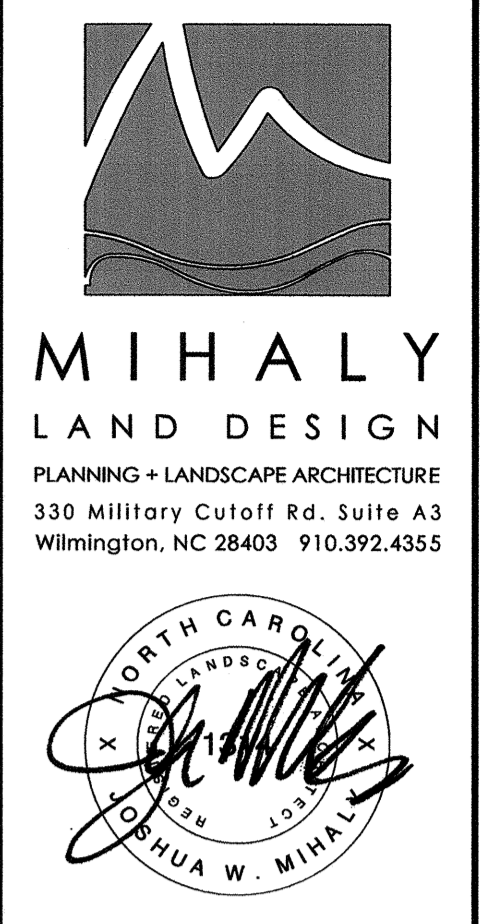


GENERAL PLANTING NOTES

1. THIS WORK INCLUDES, BUT IS NOT LIMITED TO THE FURNISHING OF ALL LABOR, MATERIALS, EQUIPMENT, FINAL GRADING, SEEDING, SOIL AMENDMENTS, ETC., AS MAY BE REQUIRED FOR A COMPLETE INSTALLATION.
2. QUANTITIES SHOWN IN PLANT LISTS ARE FOR CONVENIENCE ONLY. PLANS SHALL GOVERN.
3. THE LANDSCAPE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT OF ANY DISCREPANCIES IN PLANT LOCATIONS OR INSUFFICIENT PLANT QUANTITIES DUE TO DIFFERENCES IN PLAN AND ACTUAL FIELD CONDITIONS.
4. ALL TREE AND SHRUB MATERIAL SPECIFIED MUST MEET STANDARD INDUSTRY SPECIFICATIONS FOR THE CONTAINER SIZE INDICATED. DOWNIZING OR SUBSTITUTION OF PLANT MATERIAL WITHOUT PRIOR APPROVAL OF LANDSCAPE ARCHITECT WILL NOT BE ALLOWED.
5. ALL LANDSCAPE AREAS SHALL BE GRADED TO A SMOOTH EVEN SURFACE PRIOR TO ANY PLANT INSTALLATION. ALL PLANT MATERIALS SHALL BE INSTALLED USING GOOD HORTICULTURAL PRACTICES IN ACCORDANCE WITH THE PLANS AND DETAILS.
6. TREES SHALL NOT BE PLANTED CLOSER THAN FOUR (4) FEET FROM ANY WALKWAY OR PUBLIC SIDEWALK EXCEPT WHERE TREE WELLS OR PARKWAYS ARE PROVIDED IN THE SIDEWALK AREA. ALL TREE PLANTED WITHIN FIVE (5) FEET OF WALKS OR PUBLIC UTILITIES SHALL RECEIVE DEEP ROOT BARRIERS.
7. TREE LOCATIONS SHOWN ON PLAN MAY REQUIRE ADJUSTMENT IN THE FIELD. WHENEVER FEASIBLE, TREES SHOULD BE PLANTED A MINIMUM OF TEN (10) FEET FROM ALL UNDERGROUND UTILITIES, STREETLIGHTS, HYDRANTS, AND OUT OF DRAINAGE FLOW LINES. SHOULD THIS NOT BE POSSIBLE, CONTACT THE LANDSCAPE ARCHITECT FOR DECISION ON PLACEMENT.
8. ALL TREES IN TURF AREAS SHALL HAVE 12" MIN. CLR. CIRCUMFERENCE AROUND THE TRUNK BASE. PROVIDE 2" MIN. MULCH AT BASE OF TRUNK.
9. GROUND COVER TYPE SHOWN SHALL BE PLANTED IN ALL SHRUB AREAS AS SPECIFIED ON PLANS. GROUND COVER SHALL BE PLANTED AT 8" ON-CENTER UNIFORM TRIANGULAR SPACING, AND SHALL BE CONTINUOUS UNDER ALL TREE AND SHRUB MASSES AS SHOWN ON PLAN.
10. MATURE PLANTINGS SHALL NOT INTERFERE WITH UTILITIES AND TRAFFIC SIGN LINES.
11. ALL PLANTING AREAS SHALL BE MULCHED WITH PINESTRAW, EXCEPT AREAS PLANTED WITH GROUND COVER. GROUND COVER AREAS SHALL BE MULCHED WITH SHREDDED HARDWOOD MULCH.
12. ALL PROPOSED VEGETATION WITHIN SIGHT TRIANGLES SHALL NOT INTERFERE WITH CLEAR VISUAL SIGHT LINES FROM 30'-10' (SEC. 18-566).

Approved Construction Plan

Name	Date
Planning [Signature]	10/15/15
Engineering [Signature]	10/15/15
Traffic [Signature]	10/15/15
Fire [Signature]	10/15/15



Revisions

1. 2015-07-10: REVISED BUFFER REQUIREMENTS, ADDED NOTE PER CITY COMMENTS
2. 2015-07-16: MOVED TREES OUT OF SIGHT DISTANCE TRIANGLE, ADDED NOTES REGARDING EXISTING VEGETATION IN SIGHT TRIANGLES, LOCATED SIGN, PER CITY COMMENTS
3. 2015-10-13: REVISED PLANTING AROUND REVISED DRIVEWAYS AND BUILDING FOOTPRINT

CLIENT
NORRIS & TUNSTALL
 902 MARKET STREET
 WILMINGTON, NC
 PHONE: (910) 343-9653

PROJECT
PHOENIX MART
 2216 S. 17TH STREET
 WILMINGTON, NC
 LANDSCAPE PLAN

Date: 07/06/2015
 Phase: 000
 Job Number: 100-920
 Designed by: MLD
 Drawn by: ALM
 Checked by: JWM
 Sheet Title: LANDSCAPE PLAN
 RECEIVED
 OCT 15 2015
 Sheet Number: 1.1
 of 1 sheets

17TH STREET SOUTH
 150' R/W

