

\*NOTE: EXISTING INV. IS FROM FIELD MEASUREMENT AND SHALL BE FIELD VERIFIED PRIOR TO CONSTRUCTION.

**VICINITY MAP**

EX. CURB INLET  
TOP=35.90  
INV.=EXIST.(32.9)\*

**Medical Center Drive**  
50' PUBLIC ROW

EXIST. DRIVE ENTRANCE  
TO BE CLOSED.

EX. TREES TO BE  
REMOVED, TYP.

PARCEL# R06011-003-007-001  
ADDRESS: 1510 MEDICAL CENTER DR.  
OWNER: MEDICAL CTR DR ASSOCIATES LLC  
USE: PHYSICIAN  
ZONE: O&T-1 OFFICE & INSTITUTIONAL

EX. BUILDING, SIDEWALK  
AND ASPHALT ON SITE  
TO BE REMOVED, TYP.

TREES TO BE SAVED  
AND PROTECTED, TYP.

EX. BUILDING, SIDEWALK  
AND ASPHALT ON SITE  
TO BE REMOVED, TYP.

PARCEL# R06011-003-005-000  
ADDRESS: 2200 S 17TH ST  
OWNER: FIRST CITIZENS BANK & TRUST CO.  
USE: BANK  
ZONE: CB-COMMUNITY BUSINESS

PORTION OF EXIST. ASPHALT  
OFF SITE TO BE REMOVED.  
REFER TO LAYOUT SHEET.

PARCEL# R06011-003-004-000  
ADDRESS: 2208 S 17TH ST  
OWNER: VAN BUREN PROPERTIES LLC  
USE: MEDICAL AND HEALTH  
ZONE: CB-COMMUNITY BUSINESS

PARCEL# R06011-003-003-000  
ADDRESS: 2216 S 17TH ST  
OWNER: CANTERBURY CENTER, LLC  
USE: COMMERCIAL OTHER SERVICES  
ZONE: CB-COMMUNITY BUSINESS

PARCEL# R06011-003-002-000  
ADDRESS: 1518 VILLAGE DR  
OWNER: GLEN MEADE APARTMENTS LLC  
ZONE: MF-MULTI FAMILY MED. DENSITY

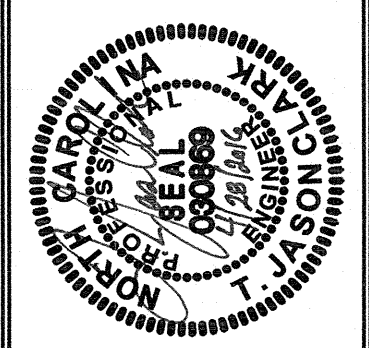
EXISTING SITE CONDITIONS, DEMOLITION  
AND TREE REMOVAL PLAN  
NHRMC ADDITIONAL PARKING-MEDICAL CENTER DR  
1612 MEDICAL CENTER DRIVE  
WILMINGTON, N. C.

OWNER/DEVELOPER  
NHRMC  
PO BOX 9000  
WILMINGTON, NC 28402  
910 943-2788

**NORRIS & TUNSTALL**  
CONSULTING ENGINEERS, P.C.  
1429 ASH-LITTLE RIVER RD. NW  
ASH, NC 28420  
PHONE (910) 287-5900

license #C-3641

16031  
DES. JST  
CD. JPN  
DRWN. NKS  
DATE 4/28/16



**C1**

TREE REMOVAL TABLE

REGULATED TREES REMOVED:

- (1) PINES
- (1) DOGWOOD
- (2) OAKS

NO SIGNIFICANT TREES EXIST ON SITE

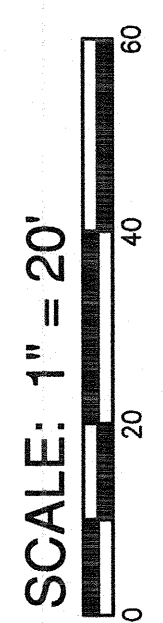
EXISTING IMPERVIOUS AREA REMOVED ON SITE:  
BUILDING: 5,300 SF  
SIDEWALK: 1,482 SF  
ASPHALT/CONC./C&G: 3,950 SF  
TOTAL: 10,702 SF (ALL TO BE REMOVED)  
PERCENT IMP.: 53.61%  
EXISTING IMPERVIOUS AREA REMOVED OFF SITE:  
ASPHALT: 850 SF

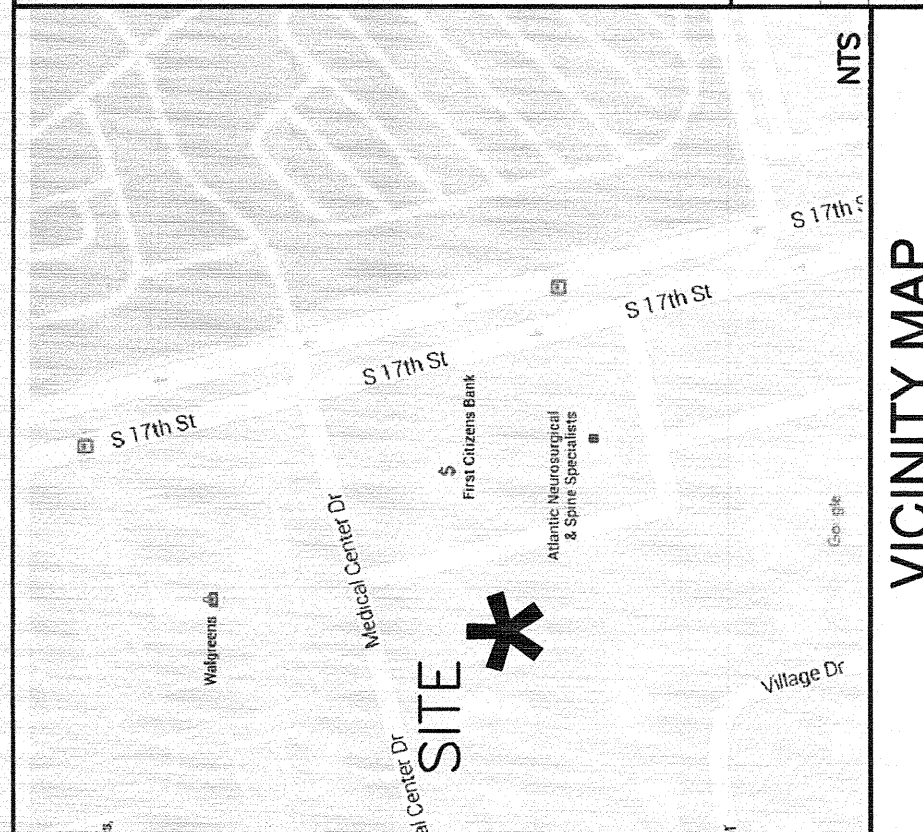
For each open utility cut of City streets, a \$225 permit shall be required from the City prior to occupancy and/or project acceptance.

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

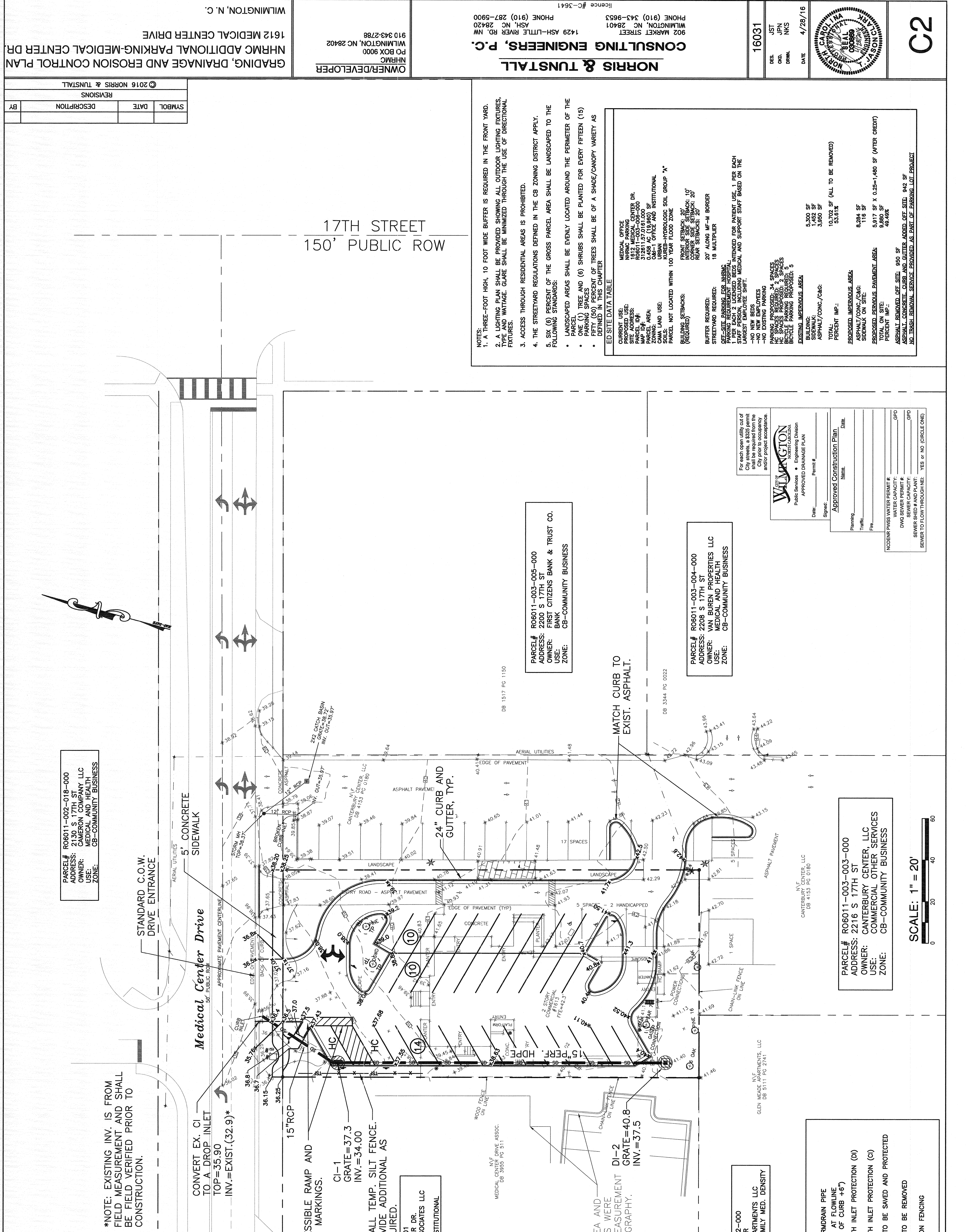
Approved Construction Plan  
Plan: \_\_\_\_\_  
Traffic: \_\_\_\_\_  
File: \_\_\_\_\_  
Date: \_\_\_\_\_  
Signed: \_\_\_\_\_  
Permit #: \_\_\_\_\_

INGENIEUR PASS WATER PERMIT #:  
WATER CAPACITY: \_\_\_\_\_ GPD  
DWS SEWER PERMIT #:  
SEWER CAPACITY: \_\_\_\_\_ GPD  
SEWER SHED # AND PLANT: \_\_\_\_\_  
SEWER TO FLOW THROUGH: YES or NO (CIRCLE ONE)





\*NOTE: EXISTING INV. IS FROM FIELD MEASUREMENT AND SHALL BE FIELD VERIFIED PRIOR TO CONSTRUCTION.



PARCEL# R06011-002-018-000  
 ADDRESS: 2130 S 17TH ST  
 OWNER: CAMERON COMPANY LLC  
 USE: MEDICAL AND HEALTH  
 ZONE: CB-COMMUNITY BUSINESS

PARCEL# R06011-003-005-000  
 ADDRESS: 2200 S 17TH ST  
 OWNER: FIRST CITIZENS BANK & TRUST CO.  
 USE: BANK  
 ZONE: CB-COMMUNITY BUSINESS

PARCEL# R06011-003-004-000  
 ADDRESS: 2208 S 17TH ST  
 OWNER: VAN BUREN PROPERTIES LLC  
 USE: MEDICAL AND HEALTH  
 ZONE: CB-COMMUNITY BUSINESS

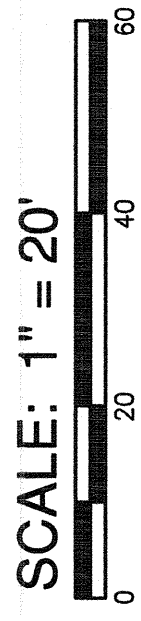
PARCEL# R06011-003-003-000  
 ADDRESS: 2216 S 17TH ST  
 OWNER: CANTERBURY CENTER, LLC  
 USE: COMMERCIAL OTHER SERVICES  
 ZONE: CB-COMMUNITY BUSINESS

PARCEL# R06011-003-002-000  
 ADDRESS: 1518 VILLAGE DR  
 OWNER: GLEN MEADE APARTMENTS, LLC  
 ZONE: MF-M-MULTI FAMILY MED. DENSITY

PARCEL# R06011-003-007-001  
 ADDRESS: 1510 MEDICAL CENTER DR.  
 OWNER: MEDICAL CTR DR ASSOCIATES LLC  
 USE: PHYSICIAN OFFICE & INSTITUTIONAL  
 ZONE: O&I-1 OFFICE & INSTITUTIONAL

**LEGEND**

---	PROPERTY LINE
---	PROPOSED STORMDRAIN PIPE
---	SPOT ELEVATION AT FLOWLINE OF CURB. (TOP OF CURB +6')
---	DROP INLET WITH INLET PROTECTION (D)
---	CURB INLET WITH INLET PROTECTION (C)
---	EXISTING TREE TO BE SAVED AND PROTECTED
---	EXISTING TREE TO BE REMOVED
---	TREE PROTECTION FENCING



For each open utility cut of this plan, the contractor shall be required from the City prior to occupancy and/or project acceptance.

**CITY OF WILMINGTON**  
 Public Services • Engineering Division  
 APPROVED DRAINAGE PLAN

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

Approved Construction Plan:  
 Planning: \_\_\_\_\_  
 Traffic: \_\_\_\_\_  
 Fire: \_\_\_\_\_

INTEGRATED WATER RESOURCES: \_\_\_\_\_  
 DWS SEWER PERMIT #: \_\_\_\_\_  
 SEWER CAPACITY: \_\_\_\_\_  
 SEWER SHED # AND PLANT: \_\_\_\_\_  
 SEWER TO FLOW THROUGH NEI: YES or NO (CIRCLE ONE)

**ED SITE DATA TABLE**

CURRENT USE:	MEDICAL OFFICE
PROPOSED USE:	NHRMC PARKING
APPROXIMATE ADDRESS:	NHRMC MEDICAL CENTER DR.
PARCEL ID#:	09361
MAP ID#:	312811.57.0161.000
PARCEL AREA:	0.499 AC (19,460) SF
CAMA LAND USE:	URBAN OFFICE AND INSTITUTIONAL
SOILS:	KUREB-HYDROLOGIC SOIL GROUP "A"
PARCEL NOT LOCATED WITHIN 100 YEAR FLOOD ZONE (REQUIRED)	
BUILDING SETBACKS:	FRONT SETBACK: 20' INTERIOR SIDE SETBACK: 20' REAR SETBACKS: 20'
BUFFER REQUIRED:	20' ALONG MF-M BORDER
STREET REQUIRED:	18 MULTIPLIER
OFF-SITE PARKING FOR NHRMC PARKING REQUIREMENT HOSPITAL:	INTENDED FOR PATIENT USE, 1 PER EACH STEP EACH 2 LICENSED BEDS. MEDICAL AND SUPPORT SHIFTS BASED ON THE LARGEST EMPLOYEE SHIFT.
-NO NEW BEDS	
-NO EXISTING PARKING	
HC SPACES REQUIRED: 2 SPACES	
HC SPACES PROPOSED: 2 SPACES	
BIKE PARKING PROPOSED: 5	
EXISTING IMPERVIOUS AREA:	
BUILDING:	5,300 SF
ASPHALT/CONC./C&G:	1,452 SF
SIDWALK:	3,950 SF
TOTAL:	10,702 SF (ALL TO BE REMOVED)
PERCENT IMP.:	53.61%
EROSION CONTROL AREA:	8,294 SF
ASPHALT/CONC./C&G:	110 SF
SIDWALK ON SITE:	5,817 SF X 0.25=1,480 SF (AFTER CREDIT)
EROSION CONTROL AREA:	9,890 SF
TOTAL ON SITE:	9,890 SF
PERCENT IMP.:	48.46%

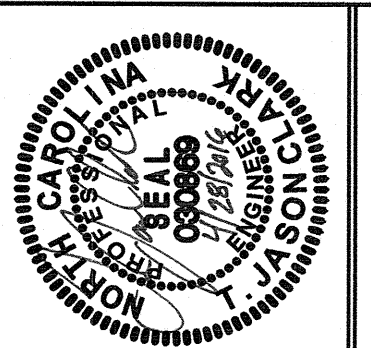
- NOTES:**
- A THREE-FOOT HIGH, 10 FOOT WIDE BUFFER IS REQUIRED IN THE FRONT YARD.
  - A LIGHTING PLAN SHALL BE PROVIDED SHOWING ALL OUTDOOR LIGHTING FIXTURES, TYPE AND WATTAGE. GLARE SHALL BE MINIMIZED THROUGH THE USE OF DIRECTIONAL FIXTURES.
  - ACCESS THROUGH RESIDENTIAL AREAS IS PROHIBITED.
  - THE STREETYARD REGULATIONS DEFINED IN THE CB ZONING DISTRICT APPLY.
  - SIX (6) PERCENT OF THE GROSS PARCEL AREA SHALL BE LANDSCAPED TO THE FOLLOWING STANDARDS:
    - LANDSCAPED AREAS SHALL BE EVENLY LOCATED AROUND THE PERIMETER OF THE PARCEL
    - ONE (1) TREE AND (6) SHRUBS SHALL BE PLANTED FOR EVERY FIFTEEN (15) PARKING SPACES
    - FIFTY (50) PERCENT OF TREES SHALL BE OF A SHADE/CANOPY VARIETY AS DEFINED IN THIS CHAPTER

GRADING, DRAINAGE AND EROSION CONTROL PLAN  
 NHRMC ADDITIONAL PARKING-MEDICAL CENTER DR.  
 1612 MEDICAL CENTER DRIVE  
 WILMINGTON, N. C.

OWNER/DEVELOPER  
 NHRMC  
 PO BOX 9000  
 WILMINGTON, NC 28402  
 910 343-2788

**NORRIS & TUNSTALL**  
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 1429 ASH-LITTLE RIVER RD, NW  
 WILMINGTON, NC 28420  
 PHONE (910) 287-5900

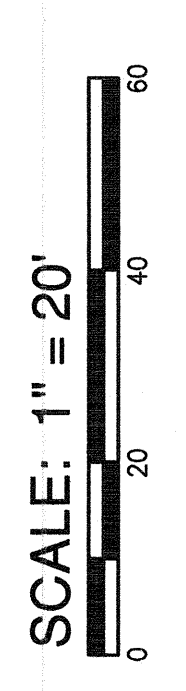
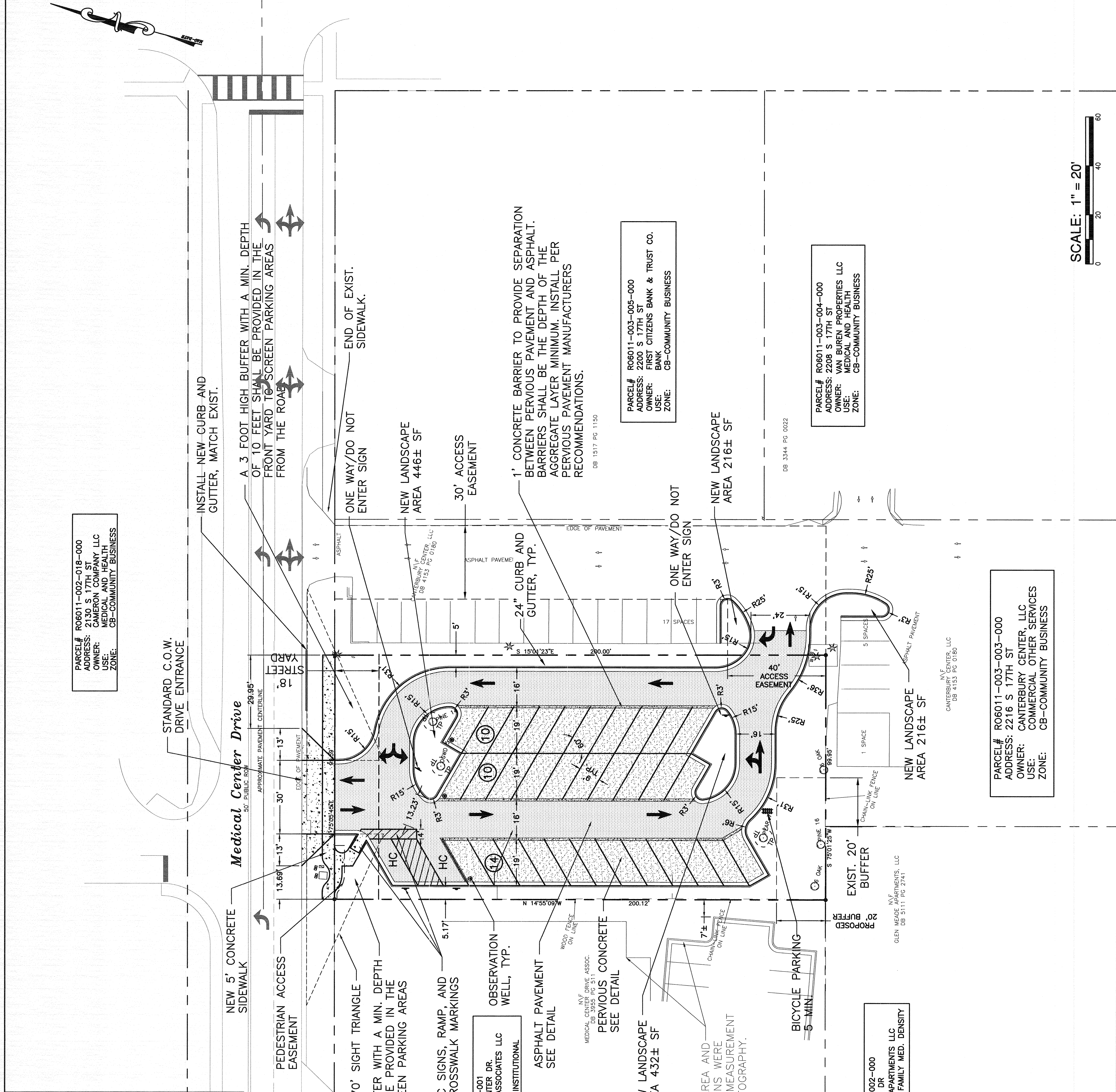
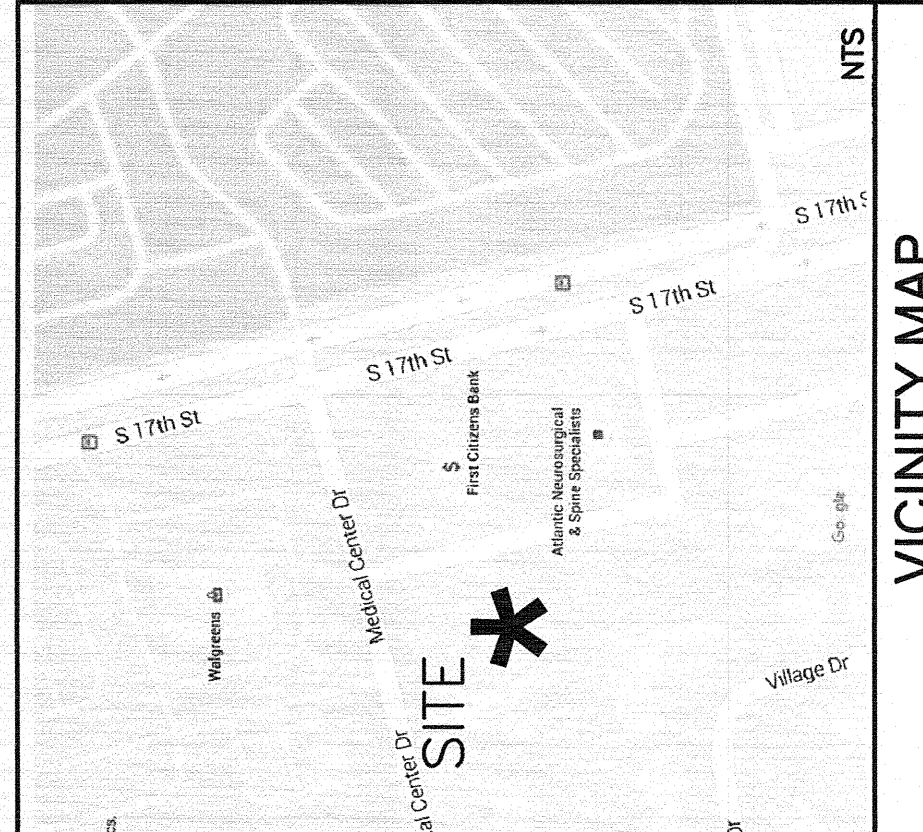
16031  
 JUST  
 JPN  
 NKS  
 DATE 4/28/16



C2

SYMBOL	DATE	DESCRIPTION	BY
REVISIONS			

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**NORRIS & TUNSTALL**  
 CONSULTING ENGINEERS, P.C.  
 902 MARKET STREET  
 WILMINGTON, NC 28401  
 PHONE (910) 343-9653  
 1429 ASH-LITTLE RIVER RD.  
 ASH, NC 28420  
 PHONE (910) 287-5900  
 License #C-3641

**OWNER/DEVELOPER**  
 NHRMC  
 PO BOX 9000  
 WILMINGTON, NC 28402  
 910 343-2788

**LAYOUT PLAN AND TREE REMOVAL PLAN**  
 NHRMC ADDITIONAL PARKING-MEDICAL CENTER DR. WILMINGTON, N. C.

**16031**

DES. JUST  
 CDD. JPN  
 DRWN. NKS

DATE 4/28/16

FOR EACH OPEN UTILITY OUT OF THE PROJECT SITE, THE CITY SHALL BE REQUIRED FROM THE CITY PRIOR TO OCCUPANCY TRAFFIC AND/OR PROJECT ACCEPTANCE.

**CITY OF WILMINGTON**  
 Public Services • Engineering Division  
 APPROVED DRAINAGE PLAN

Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
 Approved Construction Plan:  
 Name: \_\_\_\_\_ Date: \_\_\_\_\_

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

HCOBNR PWSR WATER PERMIT # \_\_\_\_\_  
 DPWSR PERMIT # \_\_\_\_\_  
 SEWER CAPACITY: \_\_\_\_\_  
 SEWER SHED # AND PLANT: \_\_\_\_\_  
 SEWER TO FLOW THROUGH NE: YES or NO (CIRCLE ONE)

SYMBOL	DATE	DESCRIPTION	BY
		REVISIONS	

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17TH STREET  
 150' PUBLIC ROW

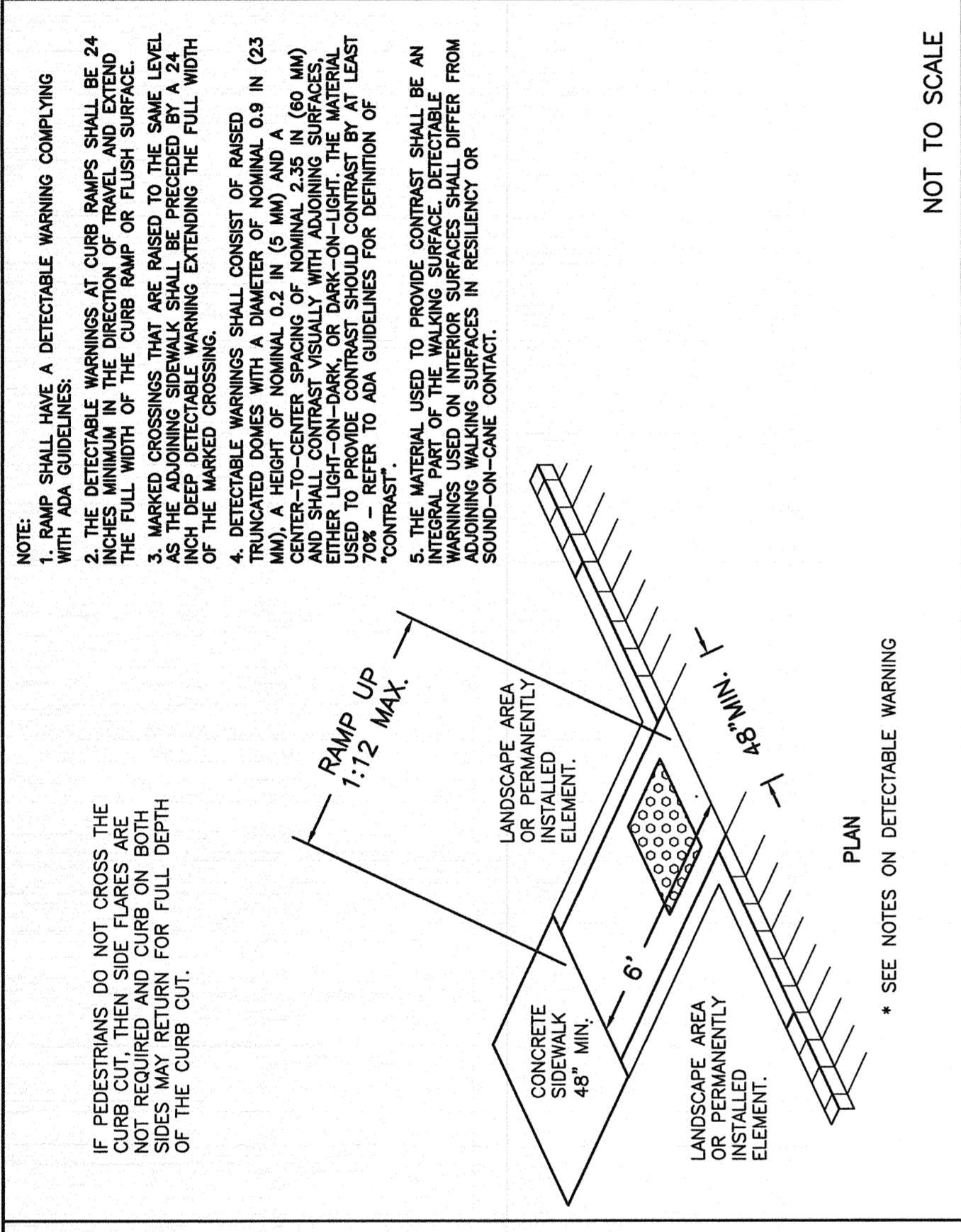
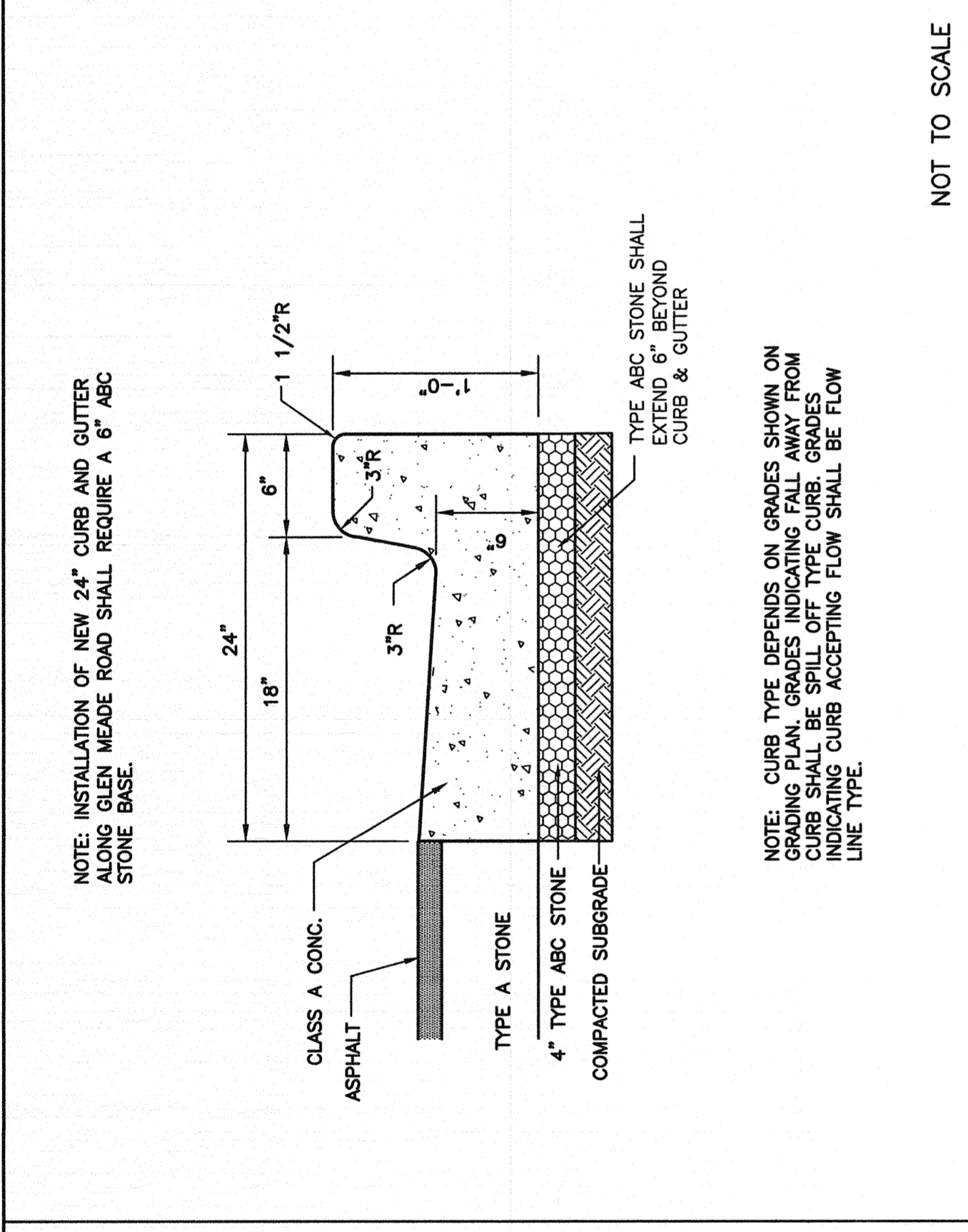
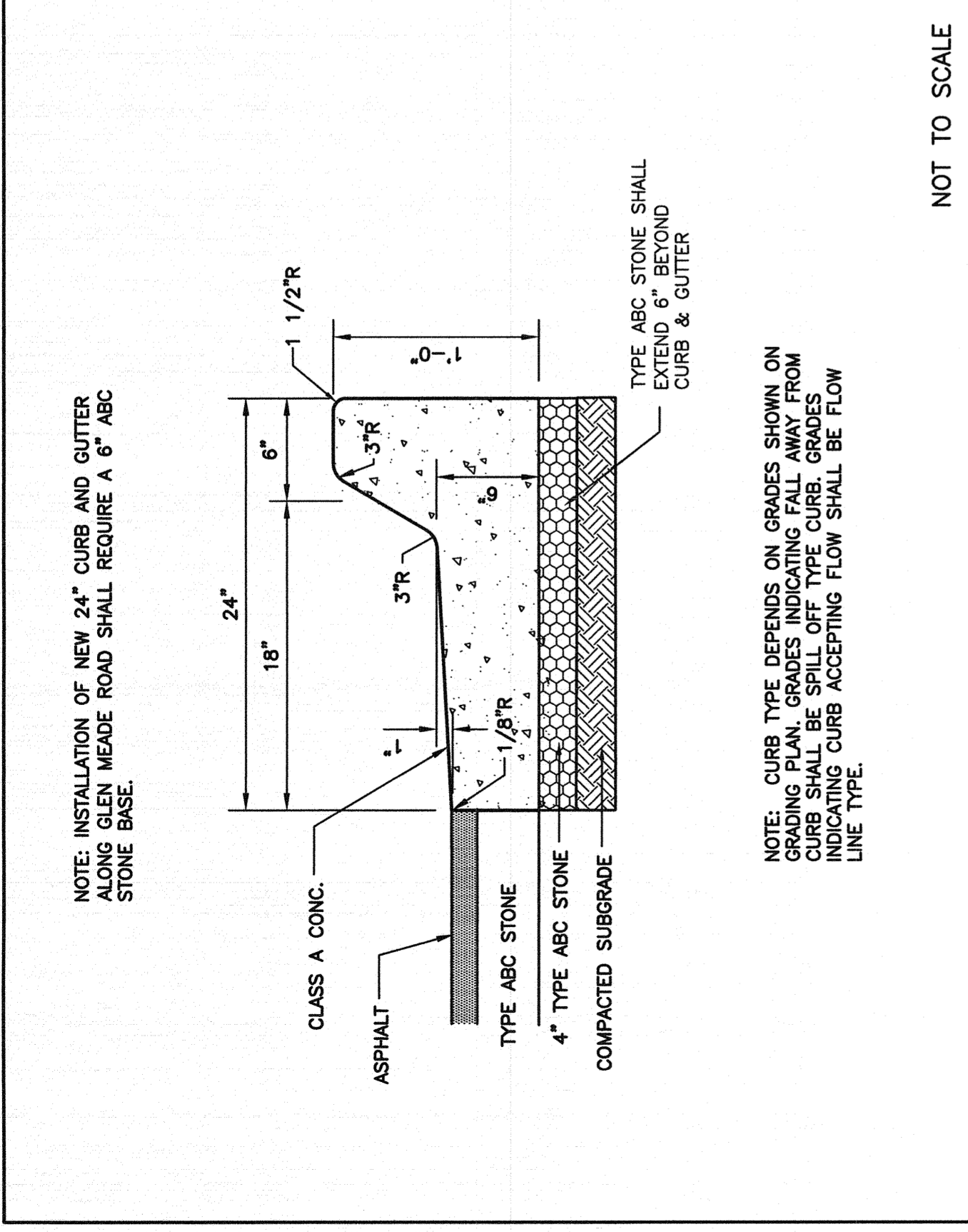
**TREE REMOVAL TABLE**

REGULATED TREES REMOVED:

(10) PINES  
 (1) DOGWOOD  
 (2) OAKS

NO SIGNIFICANT TREES EXIST ON SITE





**CITY OF WILMINGTON STANDARD NOTES:**

1. CONTACT THE NORTH CAROLINA ONE CALL CENTER PRIOR TO DOING ANY DIGGING AT 1-800-632-4949.

2. 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.

3. ALL PAVEMENT MARKINGS IN PUBLIC RIGHTS-OF-WAY AND FOR DRIVEWAYS ARE TO BE THERMOPLASTIC AND MEET CITY AND/OR NCDOT STANDARDS.

4. ALL PARKING STALL MARKINGS AND LANE ARROWS WITHIN THE PARKING AREAS SHALL BE WHITE.

5. INSTALL REFLECTORS PER CITY AND NCDOT STANDARDS. TRAFFIC ENGINEERING MUST APPROVE OF PAVEMENT MARKING LAYOUT PRIOR TO ACTUAL STRIPING.

6. ALL TRAFFIC CONTROL SIGNS AND MARKINGS OFF THE PROPERTY SHALL BE INSTALLED BY THE PROPERTY OWNER IN ACCORDANCE WITH MUTCD STANDARDS.

7. 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.

8. 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 HAVE THE CITY ACQUIRE AND ERECT SUCH SIGNS. THE SUBDIVIDER SHALL PAY THE COST OF SUCH INSTALLATION.

9. 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.

10. 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.

11. ANY BROKEN OR MISSING SIDEWALK PANELS, DRIVEWAY PANELS, AND CURBING WILL BE REPLACED.

12. CONTACT TRAFFIC ENGINEERING AT 341-7888 TO DISCUSS STREET LIGHTING OPTIONS.

13. PROJECT SHALL COMPLY WITH CPFLUA 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.

14. IF THE CONTRACTOR DESIRES CPFLUA WATER FOR CONSTRUCTION HE SHALL APPLY IN ADVANCE FOR THIS SERVICE AND MUST PROVIDE A REDUCED PRESSURE ZONE (RPZ) WATER METER BOX DEVICE ON THE DEVELOPER'S SIDE OF THE WATER METER BOX.

15. ANY IRRIGATION SYSTEM SUPPLIED BY CPFLUA WATER SHALL COMPLY WITH CPFLUA CROSS CONNECTION CONTROL REGULATIONS. CALL 332-6858 FOR INFORMATION.

16. ANY BACKFLOW PREVENTION DEVICES REQUIRED BY CPFLUA WILL HAVE TO BE ON THE LIST OF APPROVED DEVICES BY USFPOCCHR OR ASS.

17. WHEN PVC WATER MAINS AND/OR POLYETHYLENE SERVICES ARE PROPOSED, THE PIPES ARE TO BE MARKED WITH HOT TO 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.

18. THE NUMBER AND SPACING OF DRIVEWAYS FOR ALL DEVELOPMENTS SHALL BE DETERMINED BY THE COMBINED FRONTAGE OF THE INTERCONNECTED PROPERTIES.

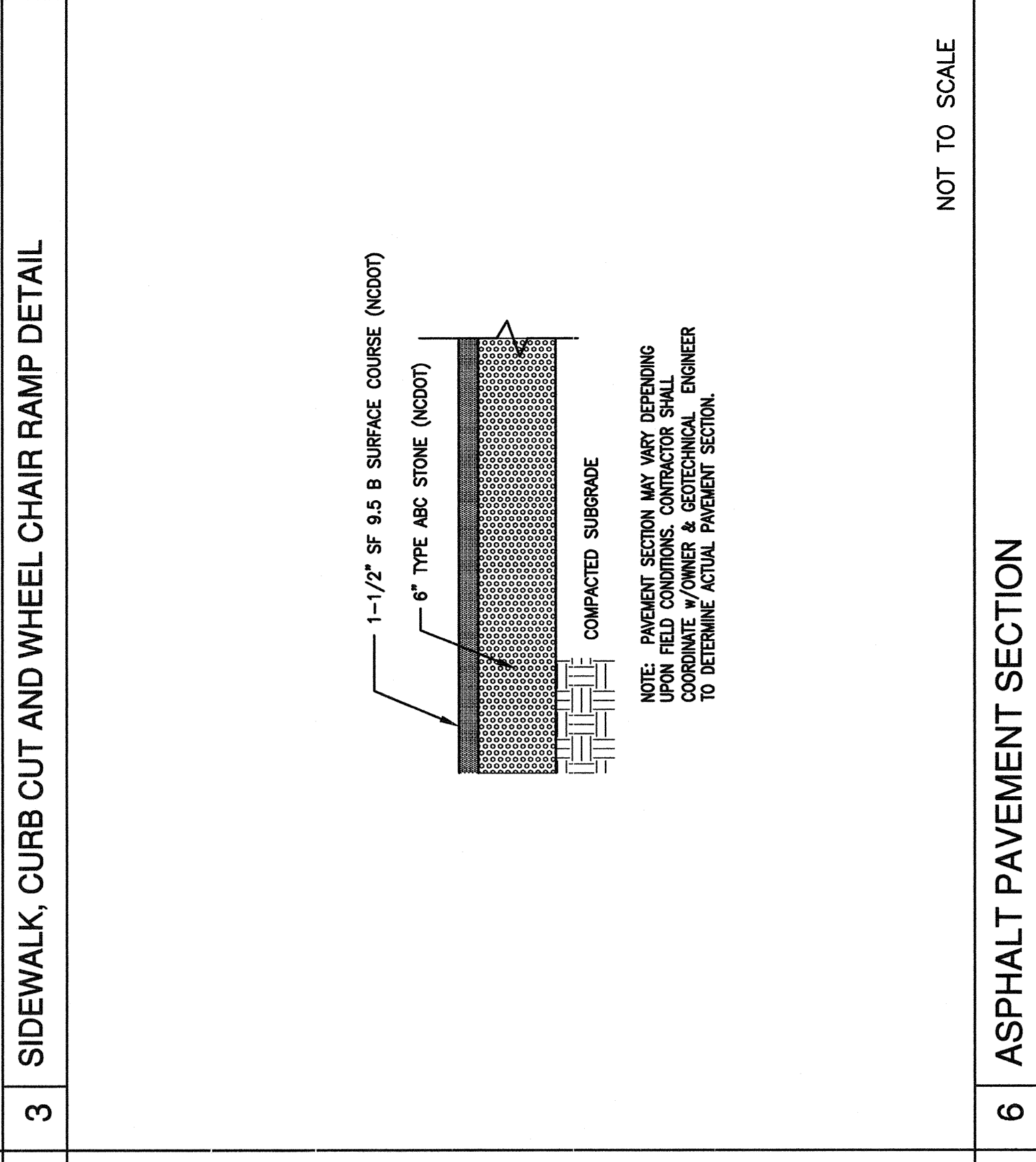
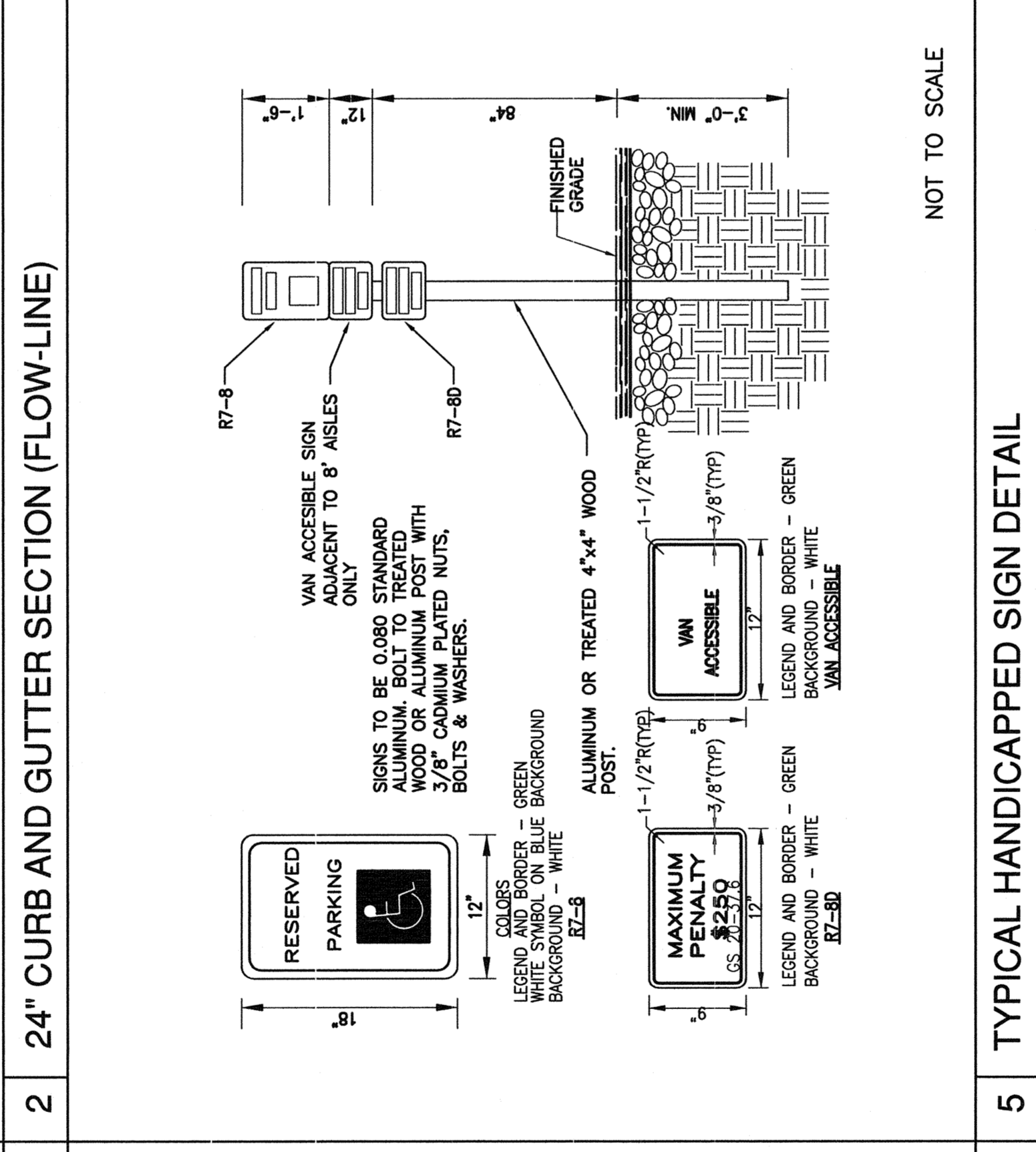
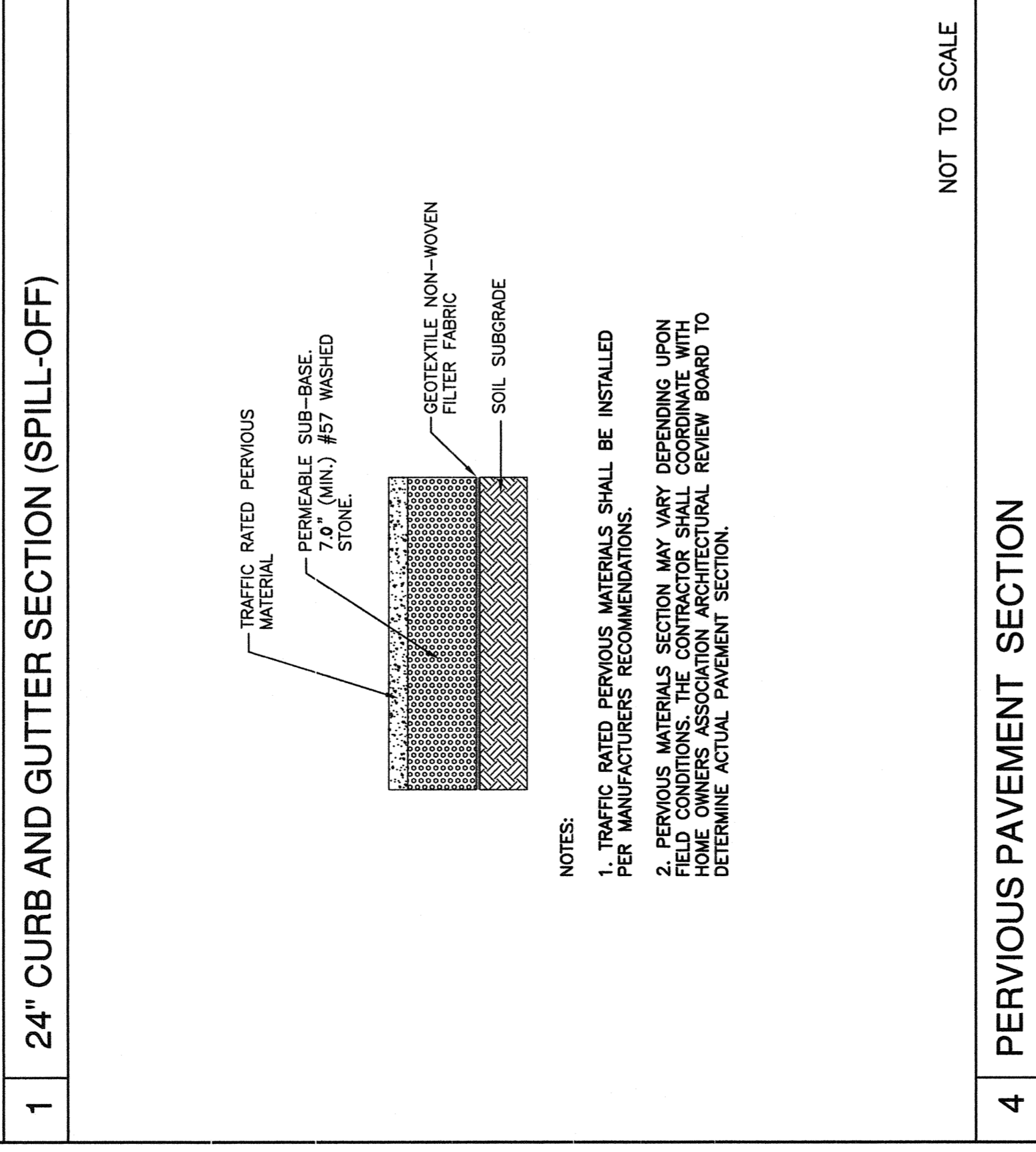
19. UNDERGROUND FIRE LINE MUST BE PERMITTED AND INSPECTED BY THE WILMINGTON FIRE DEPARTMENT FROM THE PUBLIC ROW TO THE BUILDING. CONTACT THE WILMINGTON FIRE DEPARTMENT DIVISION OF FIRE AND LIFE SAFETY AT 910-343-0886 FOR ADDITIONAL INFORMATION.

20. LANDSCAPE PLAN INDICATING THE LOCATION OF REQUIRED STREET TREES SHALL BE SUBMITTED TO THE CITY OF WILMINGTON TRAFFIC ENGINEER DIVISION AND PARKS AND RECREATION DEPARTMENT FOR REVIEW AND APPROVAL PRIOR TO THE RECORDING OF THE FINAL PLAN.

21. FLOOD AND IRRIGATION SYSTEM IS PLANNED FOR THE SITE, UTILIZE MOISTURE SENSORS.

22. ALL PROPOSED VEGETATION WITHIN THE SIGHT TRIANGLES SHALL NOT INTERFERE WITH CLEAR VISUAL SIGHT LINES FROM 30'-10'.

23. PLEASE CONSIDER INCORPORATING XERIC LANDSCAPING FOR ALL NEW LANDSCAPING.



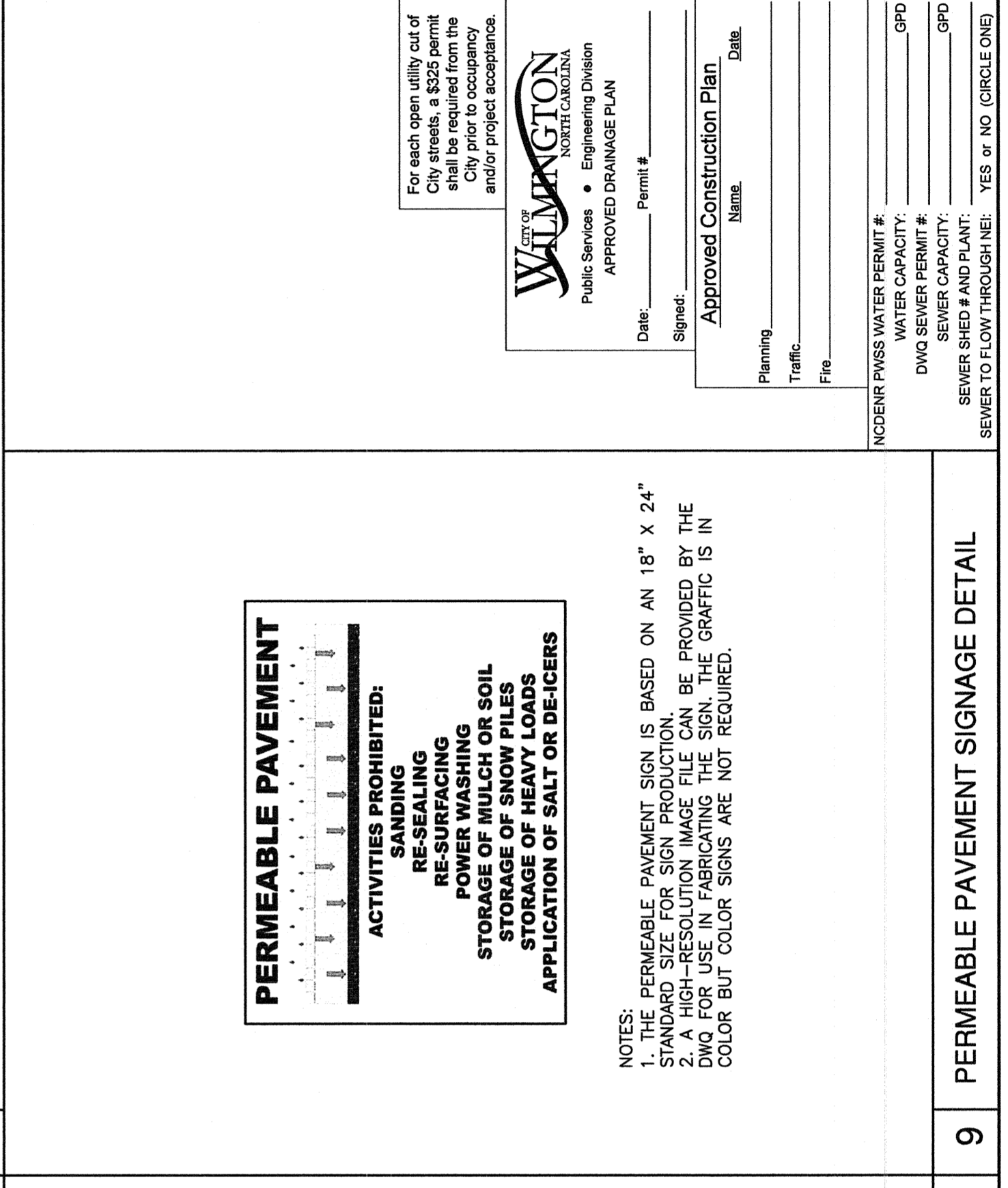
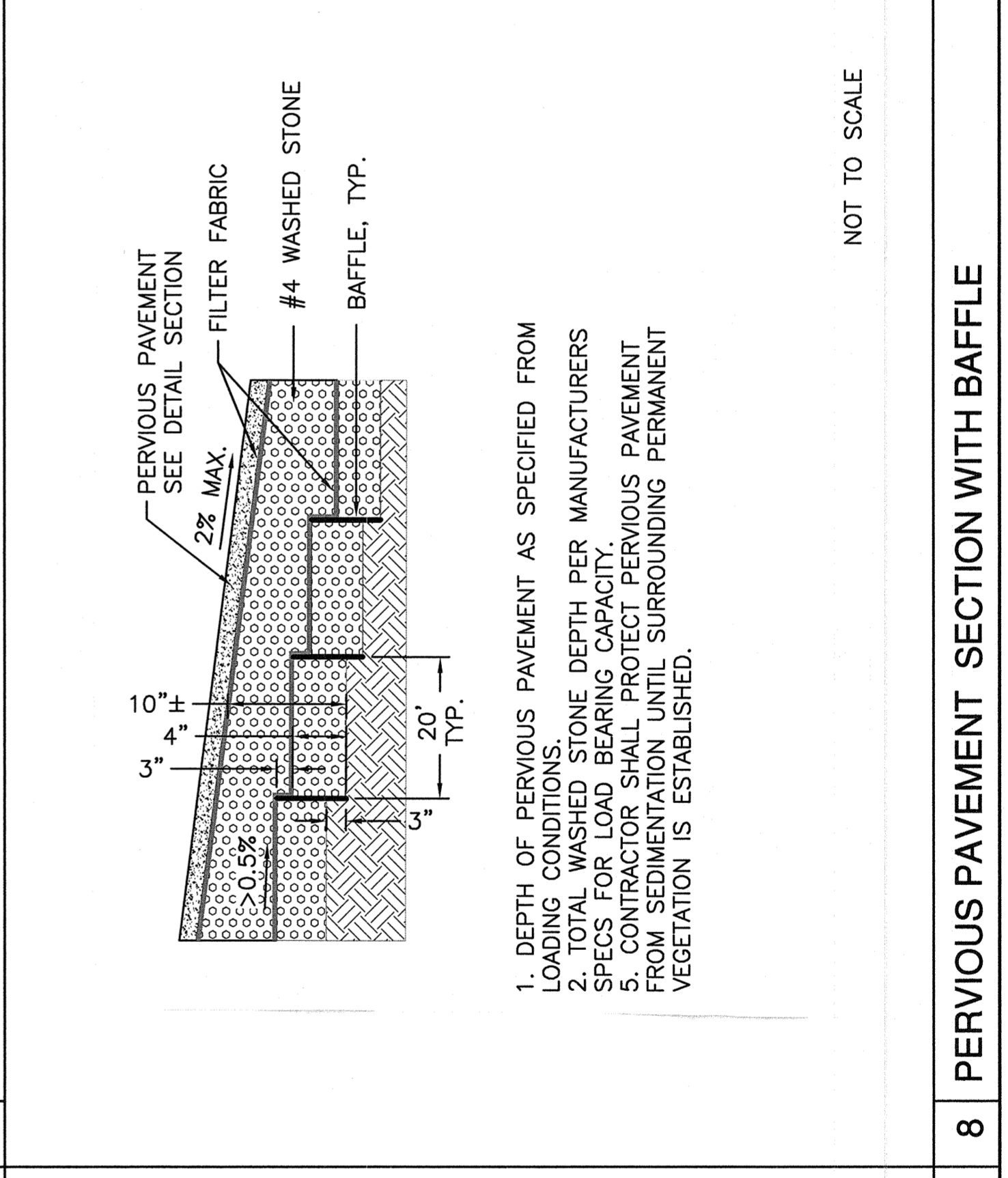
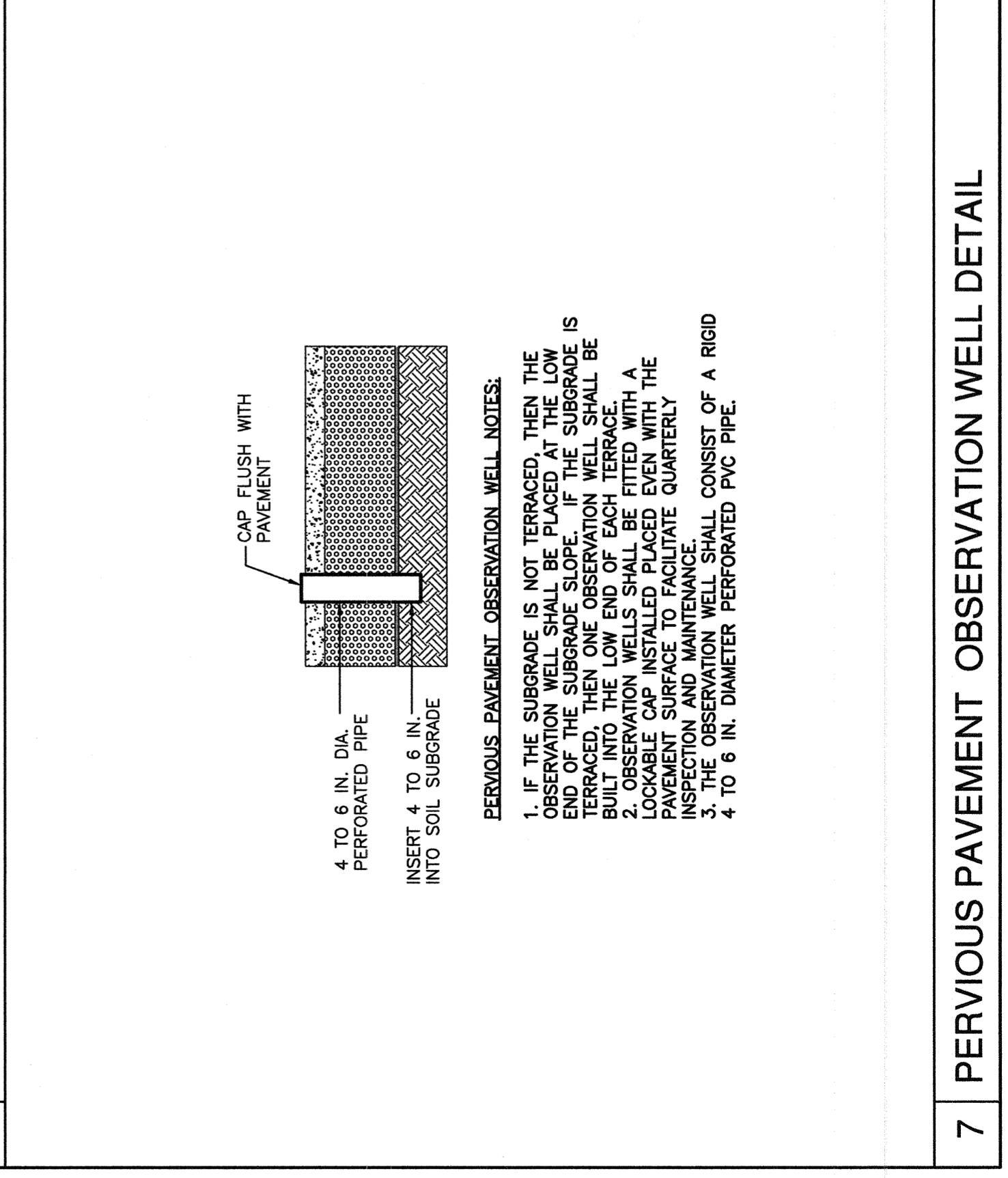
**OWNER/DEVELOPER**  
 P.O. BOX 9000  
 WILMINGTON, NC 28402  
 910 243-2788

**NORRIS & TUNSTALL CONSULTING ENGINEERS, P.C.**  
 1429 ASH-LITTLE RIVER RD. NW  
 WILMINGTON, NC 28401  
 PHONE (910) 343-9653  
 LICENSE #C-3641

**DATE:** 4/28/16  
**DESIGNER:** JLN  
**CHECKER:** NKS

**PROJECT NO.:** 16031

**LOCATION:** NHRMC ADDITIONAL PARKING-MEDICAL CENTER DR  
 1612 MEDICAL CENTER DRIVE  
 WILMINGTON, N. C.



**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 HYDRANT PLACEMENT.
- LANDSCAPING AND PARKING CANNOT BLOCK OR WEDE 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 ALL WEATHER ACCESS FOR ALL VEHICLES AT ALL TIMES DURING CONSTRUCTION.
- IF THE FIRE DEPARTMENT CONNECTION IS INSTALLED AT A 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 910-343-0886 FOR ADDITIONAL INFORMATION.
- PRIVATE WATER MAINS FROM OTHER UNDERGROUND UTILITIES MUST BE IDENTIFIED AND MARKED PRIOR TO CONSTRUCTION.
- HYDRANTS SHALL BE OF SUFFICIENT NUMBERS TO ACCOMMODATE BASE FIRE FLOW REQUIREMENTS OF THE STRUCTURE.

**APPROVED CONSTRUCTION PLAN**

DATE: \_\_\_\_\_ PERMIT # \_\_\_\_\_

SIGNATURE: \_\_\_\_\_

PLANNING: \_\_\_\_\_ DATE: \_\_\_\_\_

TRAFFIC: \_\_\_\_\_

FIRE: \_\_\_\_\_

NGCENR PASS WATER PERMIT # \_\_\_\_\_  
 WATER PERMIT # \_\_\_\_\_  
 DIVISION PERMIT # \_\_\_\_\_  
 SEWER CAPACITY: \_\_\_\_\_  
 SEWER SCHED AND PLANT: \_\_\_\_\_  
 SEWER TO-COM PRODUCTIONS: YES # NO (CIRCLE ONE)

**REVISIONS**

SYMBOL	DATE	DESCRIPTION	BY

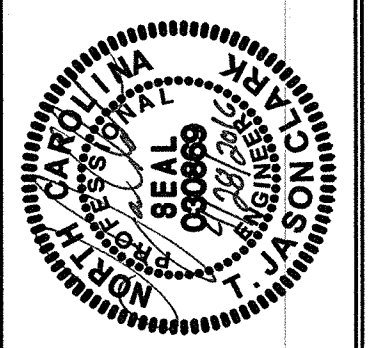
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WILMINGTON, N. C.  
1612 MEDICAL CENTER DRIVE  
NHRMC ADDITIONAL PARKING-MEDICAL CENTER DR

OWNER/DEVELOPER  
NHRMC  
PO BOX 9000  
WILMINGTON, NC 28402  
910 343-2788

**NORRIS & TUNSTALL**  
CONSULTING ENGINEERS, P.C.  
902 MARKET STREET  
WILMINGTON, NC 28401  
PHONE (910) 343-9653  
1429 ASH-LITTLE RIVER RD, NW  
ASH, NC 28420  
PHONE (910) 287-5900  
license # C-3641

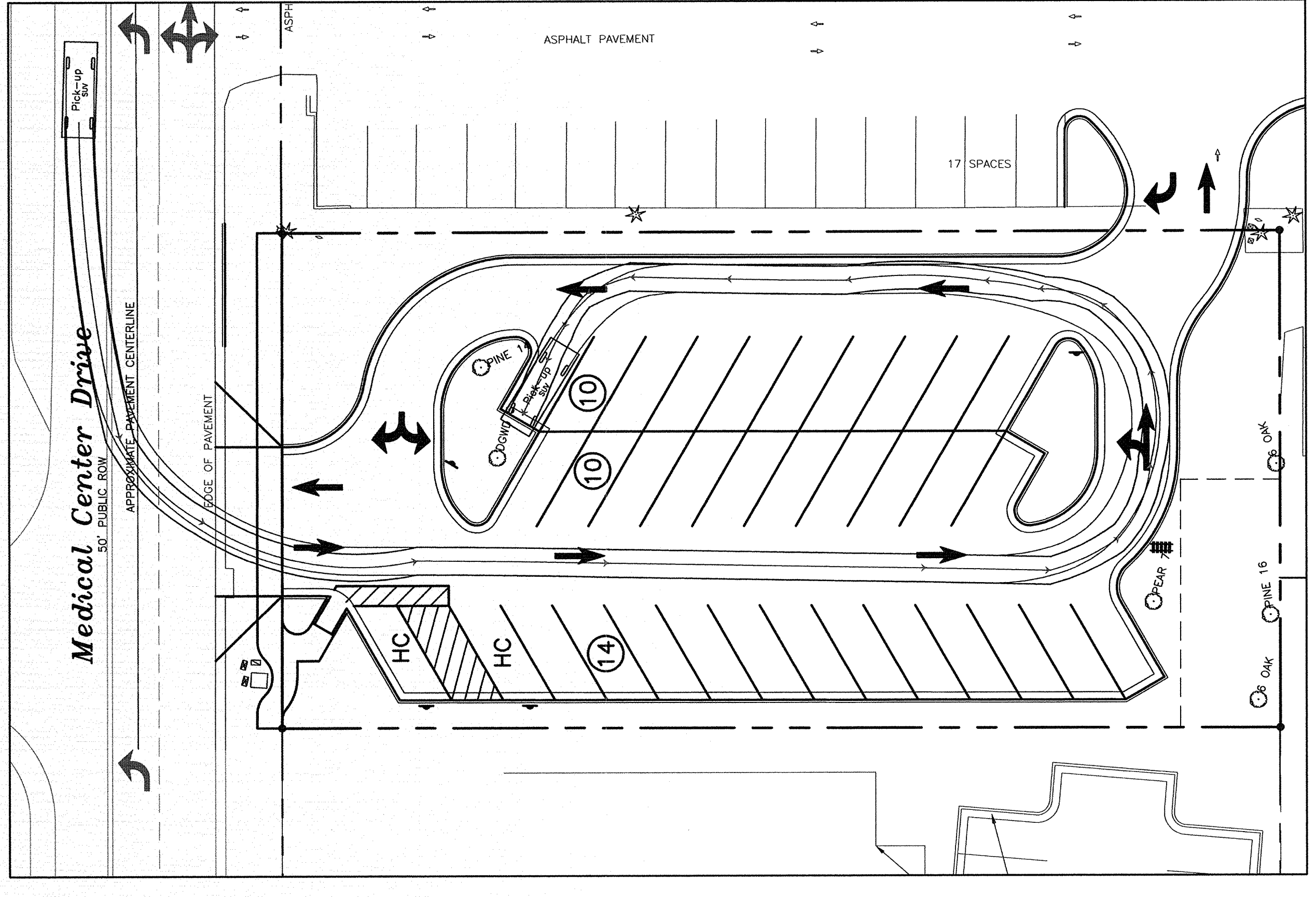
16031  
DES. JUST  
CDD. JPN  
DRAW. NKS  
DATE 4/28/16



**C6**

SYMBOL	DATE	DESCRIPTION	BY
		REVISIONS	
		© 2016 NORRIS & TUNSTALL	

NOTES AND DETAILS  
NHRMC ADDITIONAL PARKING-MEDICAL CENTER DR



PICK-UP TRUCK PARKING EXHIBIT  
SCALE: 1"=20'

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

**WILMINGTON**  
Public Services • Engineering Division  
APPROVED DRAINAGE PLAN

16031  
DES. JUST  
CDD. JPN  
DRAW. NKS  
DATE 4/28/16

Signature: \_\_\_\_\_  
Date: \_\_\_\_\_

Approved Construction Plan  
Name: \_\_\_\_\_  
Date: \_\_\_\_\_

Planning: \_\_\_\_\_  
Traffic: \_\_\_\_\_  
File: \_\_\_\_\_

NCDENR PWSS WATER PERMIT # \_\_\_\_\_  
WATER CAPACITY \_\_\_\_\_ GPD  
DWO SEWER PERMIT # \_\_\_\_\_  
WILMINGTON, NC 28403  
SEWER SIZED # AND PLAN: \_\_\_\_\_  
SEWER TO FLOW THROUGH NEI: YES or NO (CIRCLE ONE)

SERVICE ADDRESS: \_\_\_\_\_ PHONE: \_\_\_\_\_

CFPWA SEWER - CFPWA MUST INSPECT THE CAPPED SEWER SERVICE LINE (SEE DETAIL BELOW). THIS INSPECTION MUST BE COMPLETED BEFORE ANY PERMIT IS ISSUED BY NHC INSPECTIONS.

PRIVATELY TREATED SEWER OR SEPTIC TANK - CFPWA ENGINEERING DOES NOT REQUIRE A CFPWA INSPECTION.

CSR: \_\_\_\_\_  
DATE: \_\_\_\_\_

NOTES:  
1. GLUE CAPS MUST BE INSTALLED 24" FROM THE CLEAN OUT ON THE PROPERTY OWNER'S SIDE AND LEFT EXPOSED UNTIL ENGINEERING INSPECTION. RE-INSPECTION CAP-OFF. NO FEE FOR INITIAL INSPECTION. CAP-OFF. RE-INSPECTION FEE IS APPLICABLE FOR EACH RE-INSPECTION.  
2. NO FEE FOR INITIAL INSPECTION. CAP-OFF. RE-INSPECTION FEE IS APPLICABLE FOR EACH RE-INSPECTION.

PIPE MATERIAL: SCH. 40, SOLVENT WELD PVC 1120, ASTM D-1785  
GLUED CAPS REQUIRED ON EACH END

DATE: \_\_\_\_\_ CONTRACTOR/OWNER'S SIGNATURE: \_\_\_\_\_ CONTACT PHONE NUMBER: \_\_\_\_\_

**CAPE FEAR PUBLIC UTILITY AUTHORITY**  
285 GOVERNMENT CENTER DRIVE  
WILMINGTON, NC 28403  
OFFICE: (910) 332-6560  
Stewardship, Sustainability, Service.

SHEET TITLE: SEWER TERMINATION FOR DEMOLITION PERMITS  
CFPWA DETAIL DATE: 02/28/16  
SCALE: NOT TO SCALE

SERVICE ADDRESS: \_\_\_\_\_ PHONE: \_\_\_\_\_

CFPWA WATER - CFPWA MUST INSPECT THE CAPPED WATER SERVICE LINE (SEE DETAIL BELOW). THIS INSPECTION MUST BE COMPLETED BEFORE ANY PERMIT IS ISSUED BY NHC INSPECTIONS. CUSTOMER MAY REQUEST THE UTILITY BE PULLED IF THE SITE IS NOT TO BE DEVELOPED. NOTE TO CUSTOMER SERVICE: ISSUE SERVICE ORDER FOR REMOVAL OF CFPWA METER, IF REQUESTED.

PRIVATE WELL OR PRIVATELY OWNED COMMUNITY WATER - CFPWA ENGINEERING DOES NOT REQUIRE A CFPWA INSPECTION.

CSR: \_\_\_\_\_  
DATE: \_\_\_\_\_

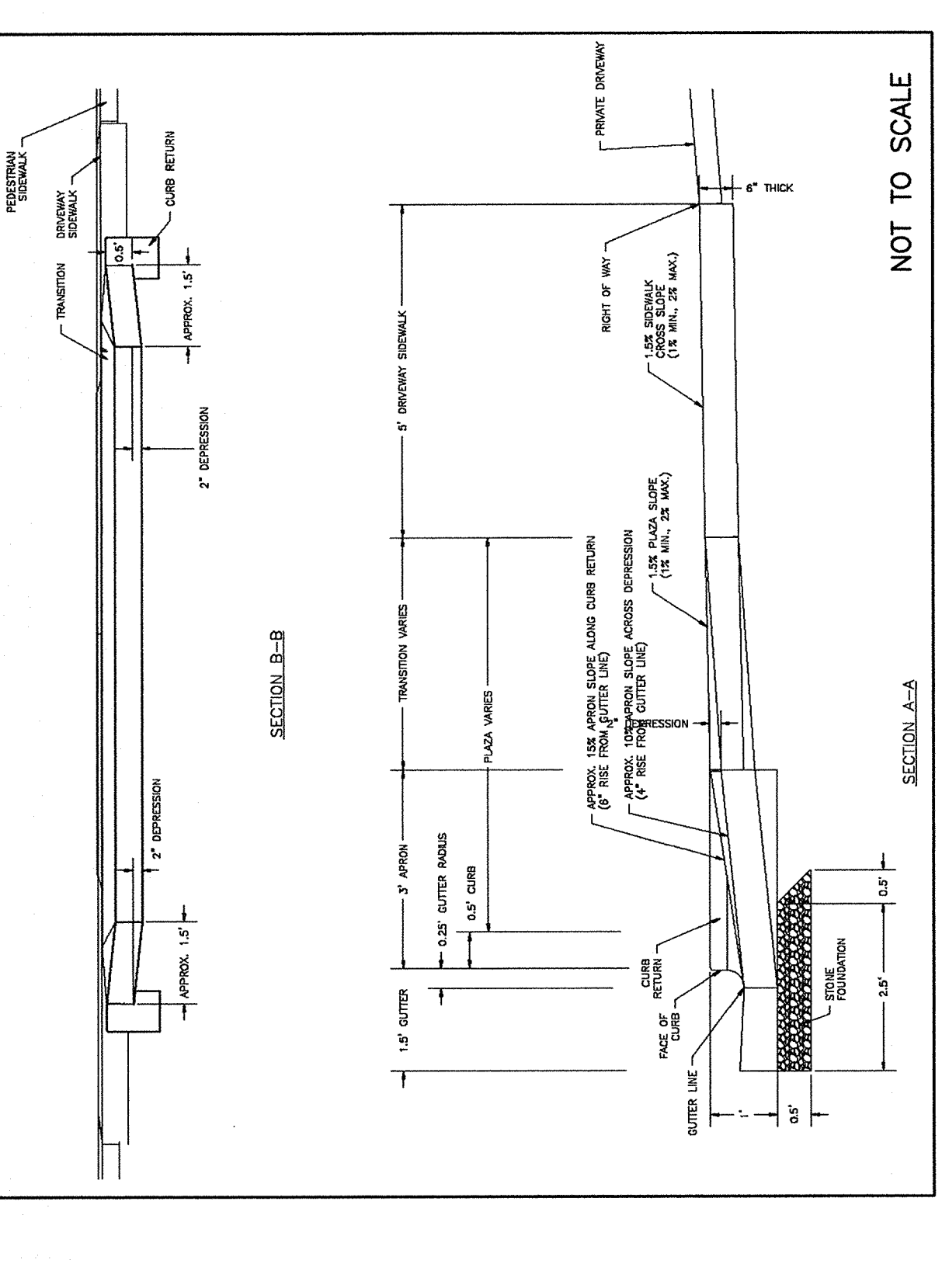
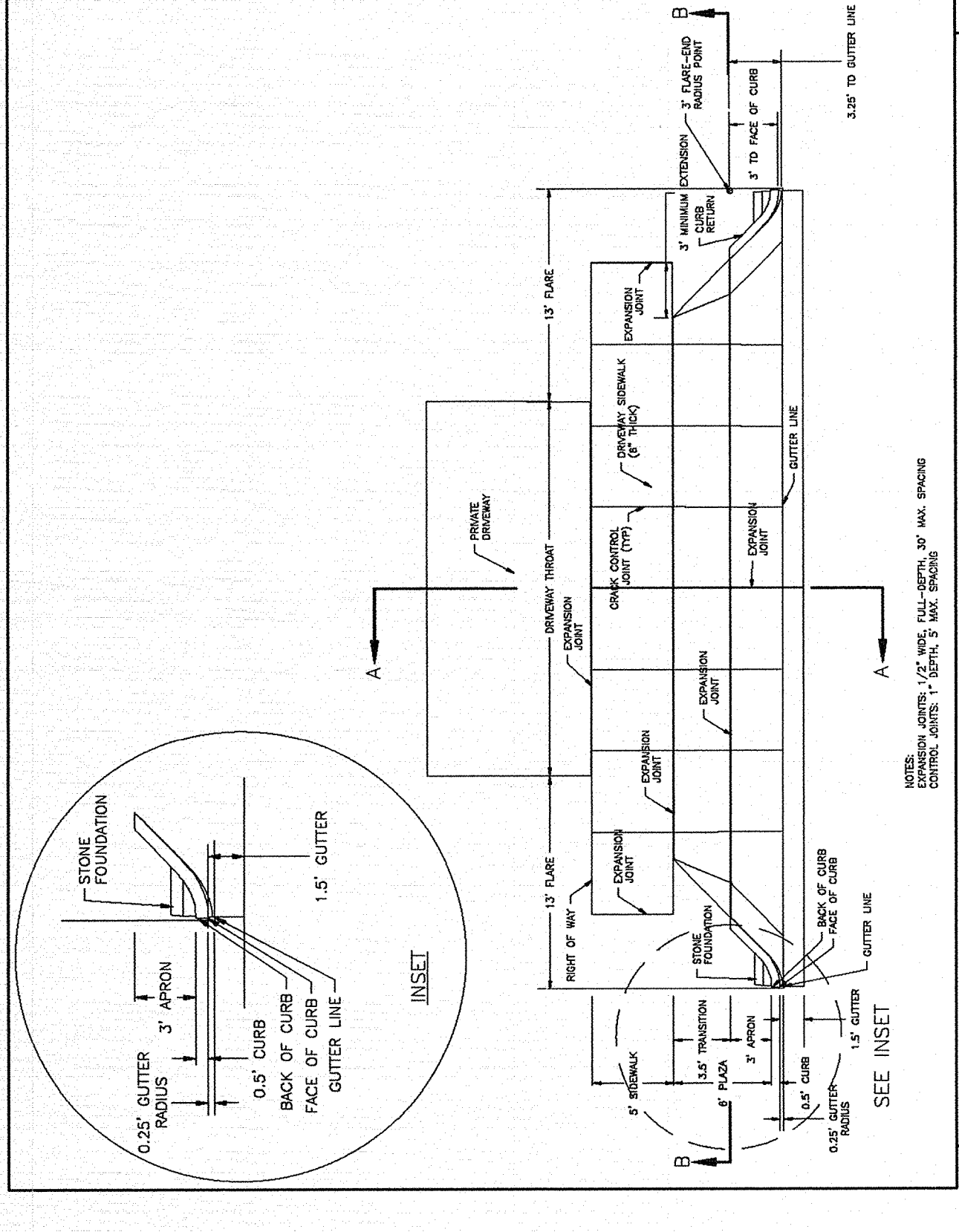
NOTES:  
1. CAPS MUST BE INSTALLED 24" FROM THE BACK SIDE OF THE METER BOX ON THE PROPERTY OWNER'S SIDE, AND LEFT EXPOSED UNTIL ENGINEERING INSPECTION AND APPROVES WATER CAP-OFF.  
2. FOR EACH RE-INSPECTION, RE-INSPECTION FEE IS APPLICABLE FOR EACH RE-INSPECTION.

EACH END IS REQUIRED TO BE CAPPED WITH AN APPROVED DRAINAGE PLAN AND INDUSTRY STANDARDS FOR THE EXISTING PIPE TYPE.

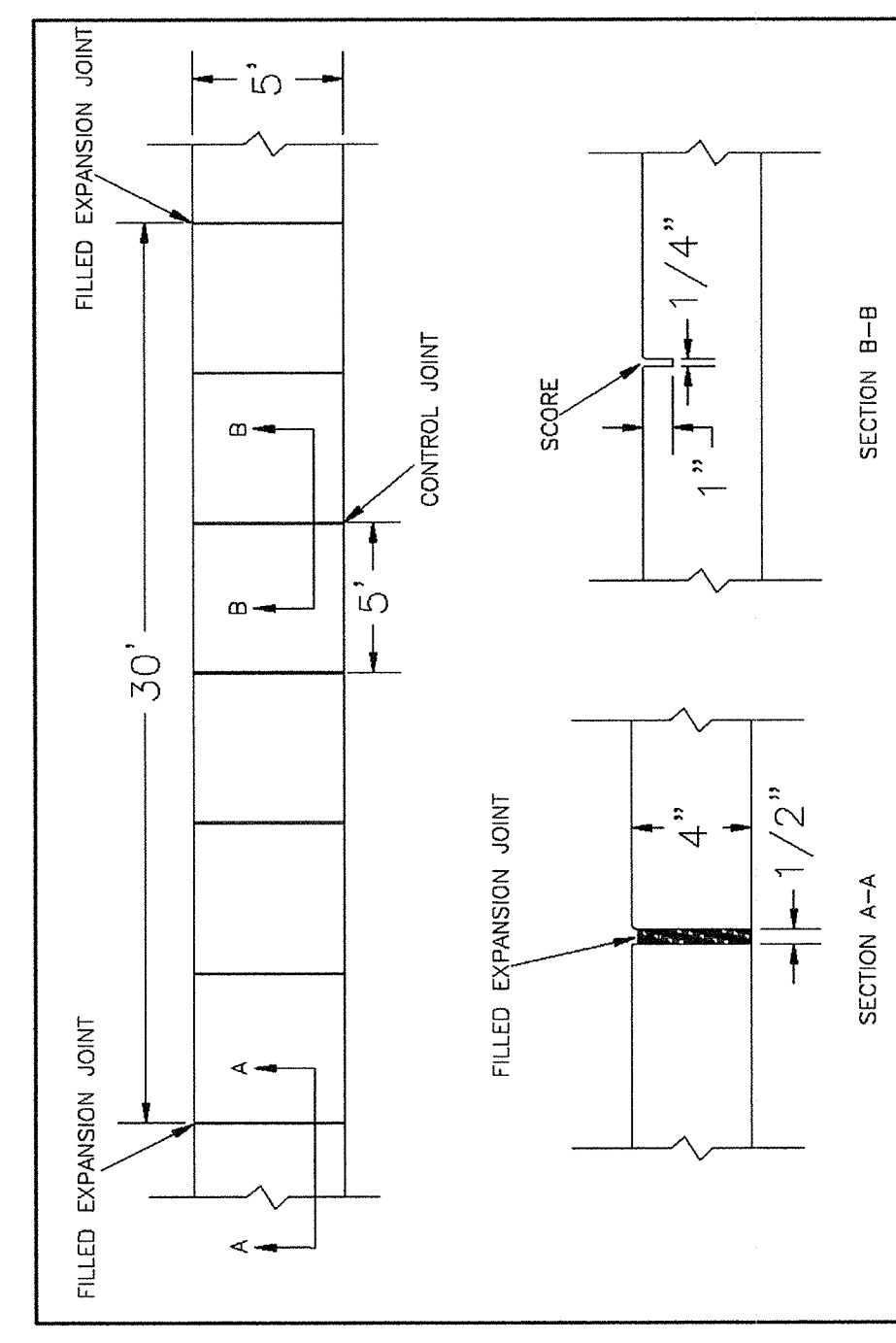
DATE: \_\_\_\_\_ CONTRACTOR/OWNER'S SIGNATURE: \_\_\_\_\_ CONTACT PHONE NUMBER: \_\_\_\_\_

**CAPE FEAR PUBLIC UTILITY AUTHORITY**  
285 GOVERNMENT CENTER DRIVE  
WILMINGTON, NC 28403  
OFFICE: (910) 332-6560  
Stewardship, Sustainability, Service.

SHEET TITLE: WATER TERMINATION FOR DEMOLITION PERMITS  
CFPWA DETAIL DATE: 02/28/16  
SCALE: NOT TO SCALE



STANDARD CITY OF WILMINGTON DRIVE WAY DETAIL  
NOT TO SCALE



- NOTES:
1. JOINT MATERIAL TO COMPLY WITH CURRENT NCDOT STANDARDS.
  2. SANITARY SEWER CLEAN-OUTS, WATER METERS, MANHOLES, AND VALVE LIDS TO BE LOCATED OUTSIDE SIDEWALK WHERE FEASIBLE.
  3. MINIMUM SIDEWALK WIDTH TO BE 6' MINIMUM IF PLACED AT BACK OF CURB.
  4. CONCRETE FOR ALL SIDEWALKS (EXCEPT ANY PORTION CONTAIN WITHIN A DRIVEWAY) SHALL BE 4" THICK WITH A MINIMUM OF 10% FIBER (BY WEIGHT).
  5. MINIMUM REPLACEMENT FOR REPAIRS IS 3' X 5' PANEL.
  6. 4" STONE BASE MAY BE REQUIRED FOR POOR SOIL CONDITIONS.
  7. MINIMUM DEPTH FOR TUNNELING BELOW SIDEWALK IS 12".
  8. MAX ADJACENT GROUND SLOPE WITHOUT RAILING IS 2:1.
  9. MIN GRADE FOR PROPER DRAINAGE IS 1% IN AT LEAST 1 DIRECTION. MAX CROSS SLOPE IS 2%. MAX LONGITUDINAL SLOPE IS 8.3% 10% IF LIMITED BY EXISTING CONDITIONS. CP NO GREATER THAN THE SLOPE ON THE EXISTING ADJACENT ROAD.

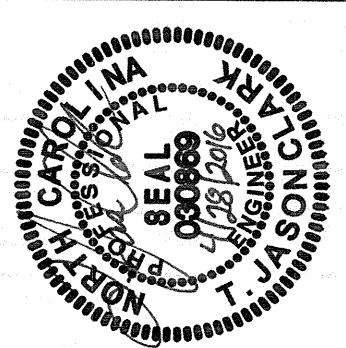
STANDARD SIDEWALK DETAIL  
NOT TO SCALE

WILMINGTON, N. C.  
 1612 MEDICAL CENTER DRIVE  
 NHRMC ADDITIONAL PARKING-MEDICAL CENTER DR  
 NHRMC  
 PO BOX 9000  
 WILMINGTON, NC 28402  
 910 343-2788

OWNER/DEVELOPER  
 NHRMC  
 PO BOX 9000  
 WILMINGTON, NC 28402  
 910 343-2788

**NORRIS & TUNSTALL**  
 CONSULTING ENGINEERS, P.C.  
 902 MARKET STREET  
 WILMINGTON, NC 28401  
 ASH, NC 28420  
 PHONE (910) 287-5900  
 1429 ASH-LITTLE RIVER RD. NW  
 WILMINGTON, NC 28401  
 PHONE (910) 343-9653  
 License #C-3641

16031  
 DES. JUST  
 CDD. JPN  
 DRWN. NKS  
 DATE 4/28/16



11

BY	DATE	DESCRIPTION

REVISIONS  
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**INVENTORY SITE DATA**  
 PARCEL ADDRESS: 1612 MEDICAL CENTER DRIVE  
 PARCEL ID#: R06011-003-006-000  
 MAP ID#: 312811.57.01.01.000  
 TOTAL LOT AREA: 0.458 AC (19,960 SF)  
 PROPERTY OWNER: NEW HANOVER REGIONAL MEDICAL CENTER  
 ZONING: O&I-1  
 CANA LAND USE: URBAN  
 SITE DOES NOT LE WITHIN 100 YEAR FLOOD PLAIN  
 NO CANA AREAS OF CONCERN OR ASSOCIATED SETBACKS  
 HISTORICAL/ARCHAEOLOGICAL SITE: NONE  
 CEMETERY: SEE PLAN FOR TREE SURVEY  
 FORESTED AREA: NONE EXIST WITHIN SITE AREA  
 WETLANDS: NONE REPORTED  
 ENDANGERED SPECIES/HABITAT: NONE REPORTED

**EXISTING IMMERGIOSUS AREA**  
 BUILDING: 5,300 SF  
 SIDEWALK: 1,452 SF  
 ASPHALT/CONC./C&G: 3,950 SF  
 TOTAL: 10,702 SF  
 PERCENT IMP.: 53.61%

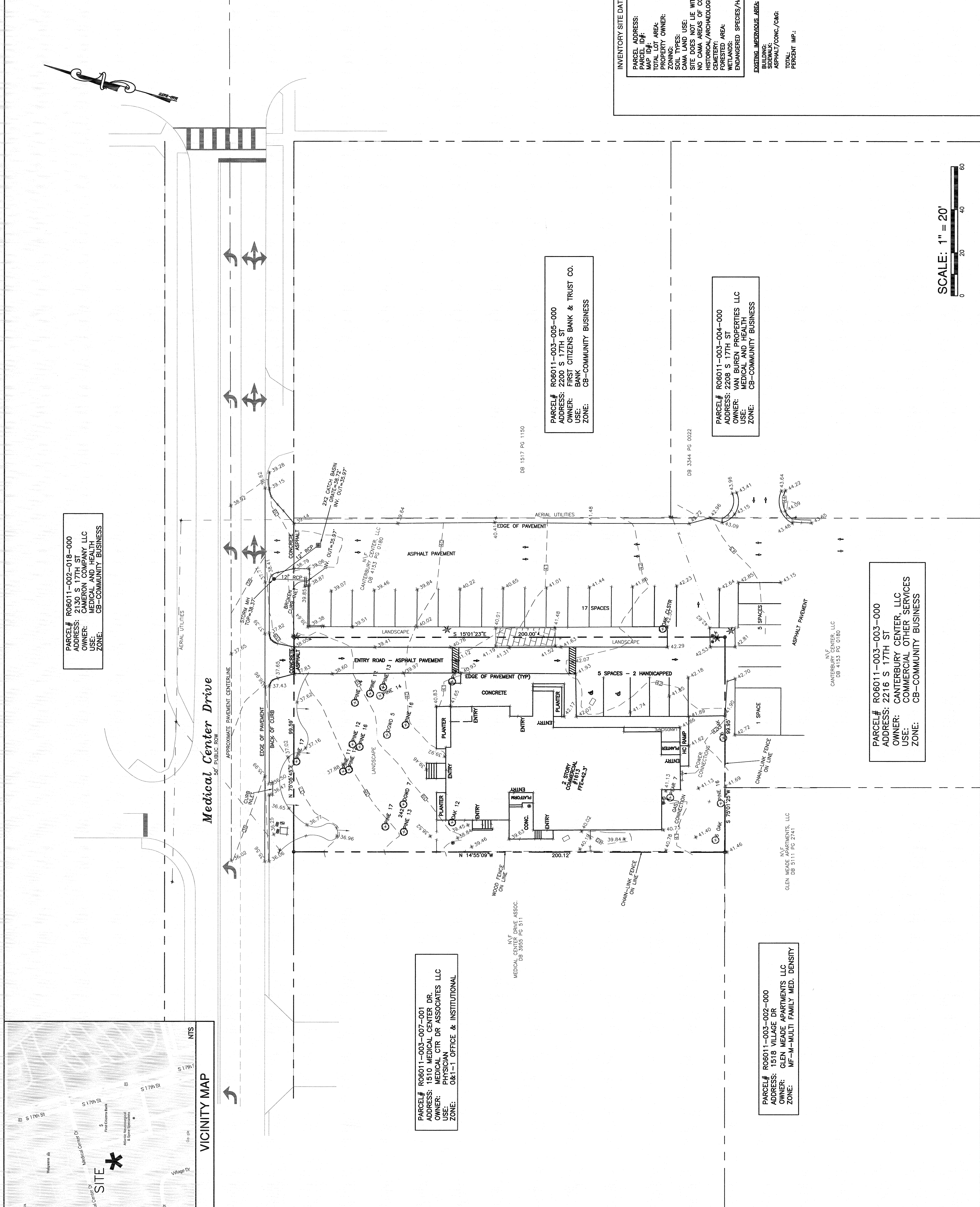
For each special utility cut of  
 Call for special utility cut of  
 shall be required prior to occupancy  
 City prior to occupancy  
 and/or project acceptance.

City of WILMINGTON  
 Public Services • Engineering Division  
 APPROVED DRAINAGE PLAN

DIR: \_\_\_\_\_ Permit # \_\_\_\_\_  
 Signed: \_\_\_\_\_  
 Approved Construction Plan:  
 Date: \_\_\_\_\_  
 Planning: \_\_\_\_\_  
 Traffic: \_\_\_\_\_  
 Fire: \_\_\_\_\_

NCSEWER PWSWATER PERMIT # \_\_\_\_\_  
 WATER CAPACITY: \_\_\_\_\_ GPD  
 DWS SEWER PERMIT # \_\_\_\_\_  
 SEWER CAPACITY: \_\_\_\_\_ GPD  
 SEWER SHED # AND PLANT: \_\_\_\_\_  
 SEWER TO FLOW THROUGH: YES or NO (CIRCLE ONE)

17TH STREET  
 150' PUBLIC ROW



PARCEL# R06011-002-018-000  
 ADDRESS: 2130 S 17TH ST  
 OWNER: CAMERON COMPANY LLC  
 USE: MEDICAL AND HEALTH  
 ZONE: CB-COMMUNITY BUSINESS

PARCEL# R06011-003-005-000  
 ADDRESS: 2200 S 17TH ST  
 OWNER: FIRST CITIZENS BANK & TRUST CO.  
 USE: BANK  
 ZONE: CB-COMMUNITY BUSINESS

PARCEL# R06011-003-004-000  
 ADDRESS: 2208 S 17TH ST  
 OWNER: VAN BUREN PROPERTIES LLC  
 USE: MEDICAL AND HEALTH  
 ZONE: CB-COMMUNITY BUSINESS

PARCEL# R06011-003-003-000  
 ADDRESS: 2216 S 17TH ST  
 OWNER: CANTERBURY CENTER, LLC  
 USE: COMMERCIAL OTHER SERVICES  
 ZONE: CB-COMMUNITY BUSINESS

PARCEL# R06011-003-007-001  
 ADDRESS: 1510 MEDICAL CENTER DR.  
 OWNER: MEDICAL CTR DR ASSOCIATES LLC  
 USE: PHYSICIAN  
 ZONE: O&I-1 OFFICE & INSTITUTIONAL

PARCEL# R06011-003-002-000  
 ADDRESS: 1518 VILLAGE DR  
 OWNER: GLEN MEADE APARTMENTS LLC  
 ZONE: MF-M-MULTI FAMILY MED. DENSITY

