

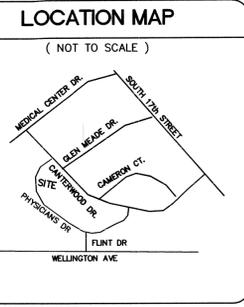
CURVE	RADIUS	ARC L.	CHORD L.	CHORD BEARING	TANGENT
C1	370.00'	130.45'	129.77'	N 12°39'35" W	65.91'

ATLANTIC DENTAL INVESTORS LLC
 LOT 15
 WILMINGTON MEDICAL PARK
 DEED BOOK 2776 PAGE 165
 MAP BOOK 39 PAGE 383
 ZONED: O&I-1
 USE: MEDICAL OFFICE

EXISTING 40' PUBLIC DRAINAGE EASEMENT
 MAP BOOK 37 PAGE 78

NEW HANOVER REGIONAL MEDICAL CENTER
 LOT 9
 DEED BOOK 2235 PAGE 658
 MAP BOOK 37 PAGE 78
 ZONED: O&I-1
 USE: UNDEVELOPED

EXISTING BACK OF CURB OF ATLANTIC DENTAL PARKING LOT IS APPROXIMATELY 8 FEET FROM PROPERTY LINE PER CONSTRUCTION PLANS FOR ATLANTIC DENTAL, APPROVED FOR STORMWATER BY CITY OF WILMINGTON ON OCTOBER 10, 2000.

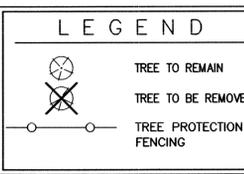


SHEET INDEX	
C1	EXISTING SITE AND DEMOLITION PLAN
C2	SITE PLAN
C3	GRADING, EROSION CONTROL, AND STORMWATER PLAN
C4	UTILITY PLAN
C5	CIVIL DETAILS
C6	CIVIL DETAILS
C7	CIVIL DETAILS
C8	CIVIL DETAILS
C9	DRAINAGE AREA PLAN

SURVEY BY:
 HANOVER DESIGN SERVICES, P.A.
 DATE: October 24, 2007
 UPDATED: July 23, 2015

- SURVEYOR'S NOTES**
1. AREA COMPUTED BY COORDINATE METHOD
 2. ALL DISTANCES ARE HORIZONTAL
 3. FOR REFERENCE SEE DEED BOOK 5200 PAGE 2797.
 4. SURVEYED OCTOBER 16, 2007 & JULY 22, 2015
 5. 1.28 ACRES TOTAL AREA
 6. THIS PROPERTY IS NOT LOCATED WITHIN 2000' OF AN EXISTING N.C. GRID MONUMENT
 7. VERTICAL DATUM NAVD (29)

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 - E.C.M. = EXISTING CONCRETE MONUMENT
 - C.P. = COMPUTED POINT
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Approved Construction Plan

Name _____ Date _____

Planning _____

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DRAINAGE PLAN APPROVED
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 STORMWATER DISCHARGE PERMIT NOT REQUIRED

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 ZONED: O&I-1
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PHYSICIANS DRIVE
 (60' CITY RIGHT-OF-WAY)

HOSPICE DRIVEWAY

COASTAL SURGERY SPECIALISTS DRIVEWAY

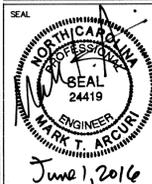
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CRISER TROUTMAN TANNER
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 3809 Peachtree Ave., Suite 102
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 910.397.2929 Ph.
 910.397.2971 Fax
 www.ctteengineering.com
 Firm License Number: FQ113



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 ADDRESS:
 1122 MEDICAL CENTER DRIVE
 WILMINGTON, NORTH CAROLINA 28403
 PH: 910-762-2618
 FX: 910-763-5173

PROJECT:
CAROLINAS ORAL & FACIAL SURGERY CENTER
 ADDRESS:
 1305 PHYSICIANS DRIVE
 WILMINGTON, NORTH CAROLINA 28403



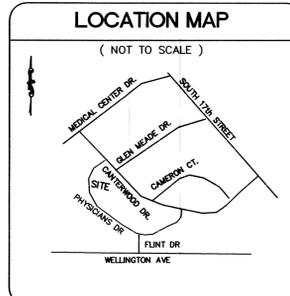
DESIGNED BY: MARK T. ARCURI
 DRAWN BY: HWL
 QUALITY CONTROL: MTA
 SCALE: NOTED
 FILE NUMBER: 7517.00
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EXISTING SITE AND DEMOLITION PLAN
 SHEET NUMBER:
C1

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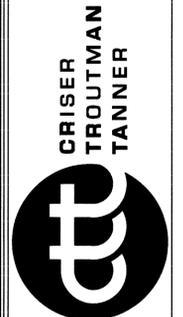
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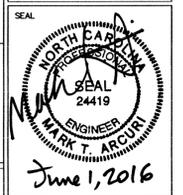
REVISIONS	DATE	BY	COMMENT

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 P: 910.387.2800
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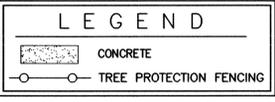
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 FILE NUMBER: 7517.00
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SITE PLAN
 SHEET NUMBER:
C2

SITE DATA TABLE	
PID:	R06015-001-007-000
ZONING:	O&I-1
BUILDING SETBACKS:	
FRONT:	20 FEET
SIDE:	20 FEET
REAR:	10 FEET
PROPERTY SIZE:	1.28 ACRES (55,584 SF)
BUILDING SIZE:	9,092 SF
BUILDING LOT COVERAGE:	9,092/55,584 = 16.4%
NUMBER OF UNITS:	N/A
NUMBER OF BUILDINGS:	1
BUILDING HEIGHT:	28 FEET
STORIES:	
FIRST:	7,524 SF
SECOND:	1,568 SF
IMPERVIOUS (ON SITE):	
EXISTING:	0 SF
PROPOSED:	37,291 SF
TOTAL WHEN COMPLETE:	37,291 SF
IMPERVIOUS (IN PHYSICIANS DRIVE RIGHT-OF WAY):	447 SF
PARKING:	
REQUIRED 9,092 SF @ 1/250:	37
MAX. ALLOWED 9,092 SF @ 1/170:	54
PROVIDED:	
STANDARD:	43
HANDICAP:	2
TOTAL WHEN COMPLETE:	45
BICYCLE PARKING:	
REQUIRED:	5
PROVIDED:	6
CAMA LAND USE CLASSIFICATION:	URBAN
CAMA AEC and SETBACKS:	NONE
HISTORICAL OR ARCHAEOLOGICAL SITES:	NONE
CEMETERY:	NONE
EXISTING OR PROPOSED THOROUGHFARES:	NONE
BIKE ROUTES:	NONE
PEDESTRIAN SIDEWALKS:	AS SHOWN
TRANSIT FACILITIES:	NONE
FLOOD PLAIN DESIGNATION:	ZONE X (NOT IN FLOOD ZONE)
CONSERVATION AREAS:	NONE
WETLANDS:	NONE
RECEIVING WATER BODY:	GREENFIELD LAKE
WATER BODY CLASSIFICATION:	C, SW
SOILS:	MURVILLE FINE SAND

SURVEYOR'S LEGEND

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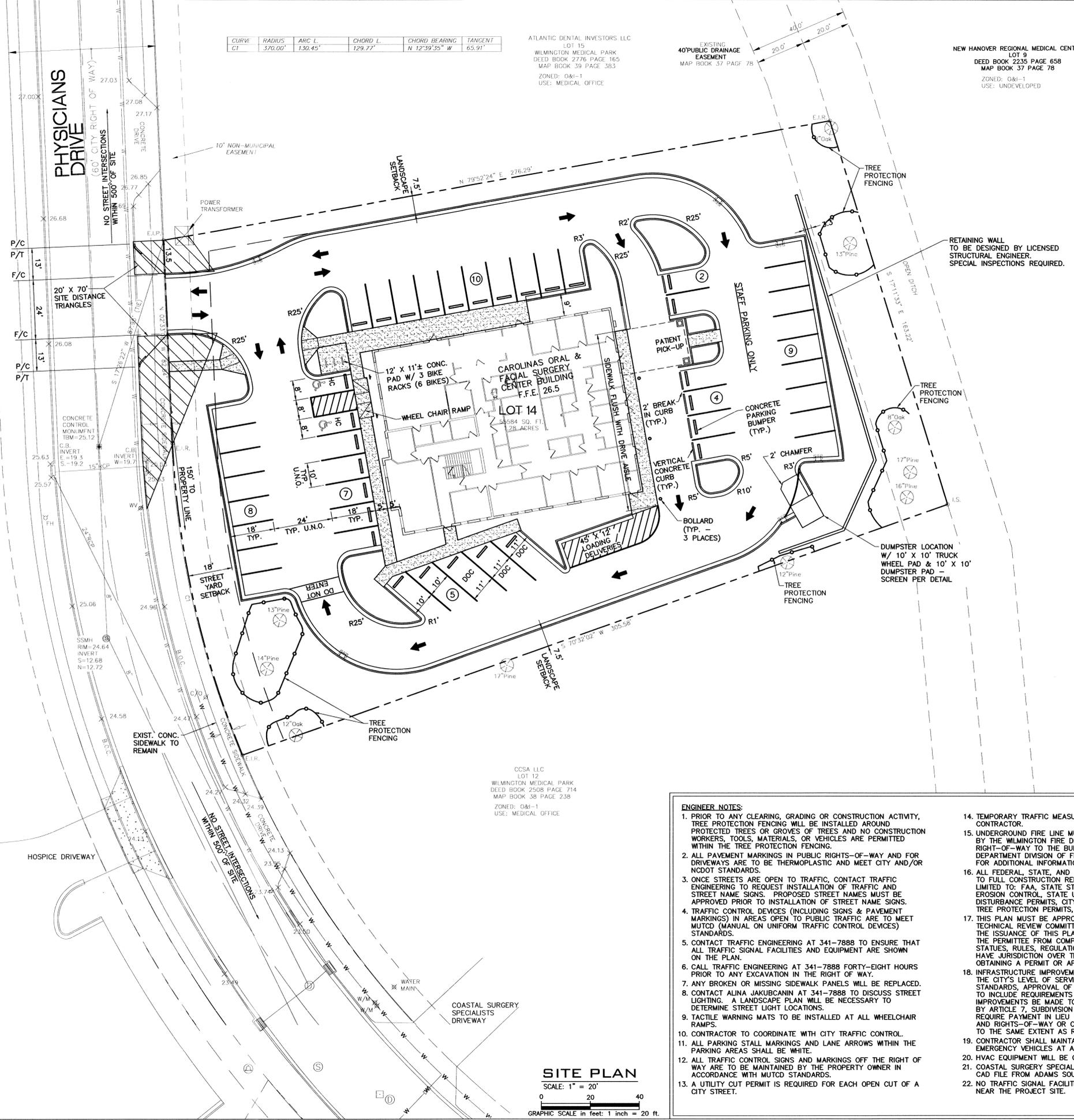
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FINAL PLAN
 FOR
 REGULATORY REVIEW
 NOT FOR
 CONSTRUCTION

Approved Construction Plan
 Name: _____ Date: _____
 Planning: _____
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 Fire: _____

DRAINAGE PLAN
 APPROVED
 CITY OF WILMINGTON
 STORMWATER DISCHARGE
 PERMIT NOT REQUIRED

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CCSA LLC
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 DEED BOOK 2508 PAGE 714
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SITE PLAN
 SCALE: 1" = 20'
 GRAPHIC SCALE in feet: 1 inch = 20 ft.

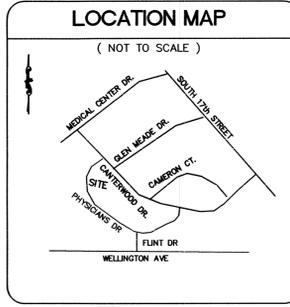
- ENGINEER NOTES:**
- PRIOR TO ANY CLEARING, GRADING OR CONSTRUCTION ACTIVITY, TREE PROTECTION FENCING WILL BE INSTALLED AROUND PROTECTED TREES OR GROVES OF TREES AND NO CONSTRUCTION WORKERS, TOOLS, MATERIALS, OR VEHICLES ARE PERMITTED WITHIN THE TREE PROTECTION FENCING.
 - ALL PAVEMENT MARKINGS IN PUBLIC RIGHTS-OF-WAY AND FOR DRIVEWAYS ARE TO BE THERMOPLASTIC AND MEET CITY AND/OR NCDOT STANDARDS.
 - ONCE STREETS ARE OPEN TO TRAFFIC, CONTACT TRAFFIC ENGINEERING TO REQUEST INSTALLATION OF TRAFFIC AND STREET NAME SIGNS. PROPOSED STREET NAMES MUST BE APPROVED PRIOR TO INSTALLATION OF STREET NAME SIGNS.
 - TRAFFIC CONTROL DEVICES (INCLUDING SIGNS & PAVEMENT MARKINGS) IN AREAS OPEN TO PUBLIC TRAFFIC ARE TO MEET MUTCD (MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES) STANDARDS.
 - CONTACT TRAFFIC ENGINEERING AT 341-7888 TO ENSURE THAT ALL TRAFFIC SIGNAL FACILITIES AND EQUIPMENT ARE SHOWN ON THE PLAN.
 - CALL TRAFFIC ENGINEERING AT 341-7888 FORTY-EIGHT HOURS PRIOR TO ANY EXCAVATION IN THE RIGHT OF WAY.
 - ANY BROKEN OR MISSING SIDEWALK PANELS WILL BE REPLACED. CONTACT ALINA JAKUBCANIN AT 341-7888 TO DISCUSS STREET LIGHTING. A LANDSCAPE PLAN WILL BE NECESSARY TO DETERMINE STREET LIGHT LOCATIONS.
 - TACTILE WARNING MATS TO BE INSTALLED AT ALL WHEELCHAIR RAMPS.
 - CONTRACTOR TO COORDINATE WITH CITY TRAFFIC CONTROL.
 - ALL PARKING STALL MARKINGS AND LANE ARROWS WITHIN THE PARKING AREAS SHALL BE WHITE.
 - ALL TRAFFIC CONTROL SIGNS AND MARKINGS OFF THE RIGHT OF WAY ARE TO BE MAINTAINED BY THE PROPERTY OWNER IN ACCORDANCE WITH MUTCD STANDARDS.
 - A UTILITY CUT PERMIT IS REQUIRED FOR EACH OPEN CUT OF A CITY STREET.

- TEMPORARY TRAFFIC MEASURES SHALL BE MAINTAINED BY THE CONTRACTOR.
- UNDERGROUND FIRE LINE 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.
- ALL FEDERAL, STATE, AND LOCAL PERMITS ARE REQUIRED PRIOR TO FULL CONSTRUCTION RELEASE. THIS INCLUDES BUT IS NOT LIMITED TO: FAA, STATE STORM WATER, SEDIMENTATION AND EROSION CONTROL, STATE UTILITY EXTENSION PERMITS, WETLAND DISTURBANCE PERMITS, CITY STORM WATER, DEMOLITION, TREE PROTECTION PERMITS, ETC.
- THIS PLAN MUST BE APPROVED BY THE MEMBERS OF THE TECHNICAL REVIEW COMMITTEE PRIOR TO CONSTRUCTION. THE ISSUANCE OF THIS PLAN REVISION DOES NOT PRECLUDE THE PERMITTEE FROM COMPLYING WITH ALL OTHER APPLICABLE STATUTES, RULES, REGULATIONS OR ORDINANCES WHICH MAY HAVE JURISDICTION OVER THE PROPOSED ACTIVITY, AND OBTAINING A PERMIT OR APPROVAL PRIOR TO CONSTRUCTION.
- INFRASTRUCTURE IMPROVEMENTS: WHERE REQUIRED TO SATISFY THE CITY'S LEVEL OF SERVICE STANDARDS OR TECHNICAL STANDARDS, APPROVAL OF SITE PLANS SHALL BE CONDITIONED TO INCLUDE REQUIREMENTS THAT STREET AND UTILITY, OR OTHER IMPROVEMENTS BE MADE TO THE SAME EXTENT AS REQUIRED BY ARTICLE 7, SUBDIVISION REGULATIONS. THE APPROVAL MAY REQUIRE PAYMENT IN LIEU OF THE DEDICATION OF PROPERTY AND RIGHTS-OF-WAY OR CONSTRUCTION OF IMPROVEMENTS TO THE SAME EXTENT AS REQUIRED BY THIS CHAPTER.
- CONTRACTOR SHALL MAINTAIN AN ALL WEATHER ACCESS FOR EMERGENCY VEHICLES AT ALL TIMES DURING CONSTRUCTION.
- HVAC EQUIPMENT WILL BE ON ROOF TOP.
- COASTAL SURGERY SPECIALISTS AND HOSPICE DRIVEWAYS PER CAD FILE FROM ADAMS SOUTHEAST CONSTRUCTION 04-07-2016.
- NO TRAFFIC SIGNAL FACILITIES OR EQUIPMENT EXIST ON OR NEAR THE PROJECT SITE.

CURVE	RADIUS	ARC L.	CHORD L.	CHORD BEARING	TANGENT
C1	370.00'	130.45'	129.77'	N 12°39'35" W	65.91'

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 ZONED: O&I-1
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NEW HANOVER REGIONAL MEDICAL CENTER
 LOT 9
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SURVEY BY:
 HANOVER DESIGN SERVICES, P.A.
 DATE: October 24, 2007
 UPDATED: July 23, 2015

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- LEGEND**
- 54- EXIST. CONTOURS
 - 54- PROPOSED CONTOURS
 - x 26.10 EXIST. SPOT ELEVATION
 - x 55.8 PROPOSED SPOT ELEVATION (FE-FINISHED ELEVATION, UNLESS NOTED OTHERWISE)
 - RW RETAINING WALL
 - T TOP OF RETAINING WALL
 - B BOTTOM OF RETAINING WALL
 - TW TOP OF WALK
 - BW BOTTOM OF WALK
 - TC TOP OF CURB
 - BC BOTTOM OF CURB
 - FE FINISHED ELEVATION
 - HP HIGH POINT
 - INV INVERT
 - SD STORM DRAIN
 - RD STORM DRAIN
 - F.F.E. FINISH FLOOR ELEVATION
 - RCP REINFORCED CONCRETE PIPE
 - TG TOP OF GRATE
 - C.O. CLEAN OUT
 - DI DROP INLET
 - JB JUNCTION BOX
 - - - DIRECTION OF SLOPE
 - - - LIMIT OF DISTURBANCE
 - - - TEMPORARY INLET PROTECTION
 - - - TEMPORARY SILT FENCE
 - - - TREE PROTECTION FENCING

FINAL PLAN FOR REGULATORY REVIEW
 NOT FOR CONSTRUCTION

Approved Construction Plan

Name _____ Date _____

Planning _____

Traffic _____

Fire _____

DRAINAGE PLAN APPROVED
 CITY OF WILMINGTON
 STORMWATER DISCHARGE PERMIT NOT REQUIRED

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GRADING, EROSION CONTROL, AND STORMWATER PLAN

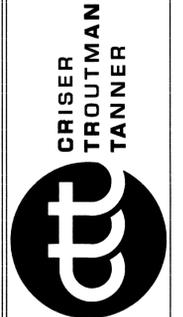
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DISTURBED AREA = 1.3 ACRES

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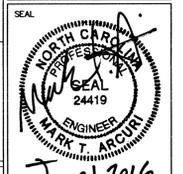
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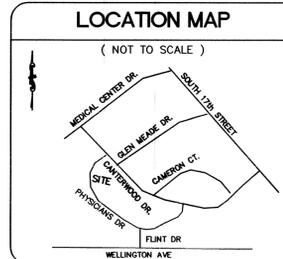
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- LEGEND**
- SSMH SANITARY SEWER MANHOLE
 - SS SANITARY SEWER
 - C.O. CLEAN OUT
 - SSCO SANITARY SEWER CLEAN OUT
 - W POTABLE WATER
 - IW IRRIGATION WATER
 - TS&V TAPPING SLEEVE & VALVE
 - BFP BACK FLOW PREVENTER
 - WATER METER
 - INVERT
 - WATER VALVE

- CONSTRUCTION SEQUENCE:**
1. REQUEST PRECONSTRUCTION MEETING WITH CFPUA.
 2. UPON COMPLETION OF PRECONSTRUCTION MEETING AND SATISFACTION OF SUBSEQUENT REQUESTS / REQUIREMENTS OF CFPUA, COORDINATE WITH CFPUA REGARDING PROCEDURE FOR INSTALLATION OF WATER AND SEWER LINES.
 3. IF APPLICABLE, COORDINATE WITH CFPUA REGARDING SCHEDULE AND PROCEDURE BY WHICH CFPUA WILL ISOLATE WATER SYSTEM VIA THEIR EXISTING VALVES.
 4. COORDINATE WITH CFPUA INSPECTION REQUIREMENTS FOR CFPUA INSPECTORS.
 5. UPON FULL AGREEMENT AND APPROVAL WITH CFPUA, PERFORM WORK.
 6. CONTACT CFPUA DAILY DURING CFPUA UTILITY WORK REGARDING INSPECTIONS AND OTHER CFPUA REQUIREMENTS.
 7. COORDINATE TESTING REQUIREMENTS WITH CFPUA, INCLUDING BUT NOT LIMITED TO, FLUSHING, BAC-T, PRESSURE, ETC.
 8. UPON FULL AGREEMENT AND APPROVAL WITH CFPUA, PERFORM TESTING.

- ENGINEER NOTES:**
1. CONTACT PIEDMONT NATURAL GAS (PNG) TWO WEEKS PRIOR TO DESIRED GAS SERVICE INSTALLATION. CALL PAUL GONKA AT 910-512-2841.
 2. BEFORE PERFORMING ANY WORK, OWNER REQUIRED TO OBTAIN ANY AND ALL PERMITS REQUIRED.
 3. CALL CFPUA BEFORE BEGINNING ANY WORK. CALL BERNICE JOHNSON @ 910-332-6620.
 4. CALL NC 811 BEFORE DIGGING.
 5. CONTRACTOR REQUIRED TO OBTAIN UNDERGROUND FIRE LINE PERMIT FROM THE WILMINGTON FIRE AND LIFE SAFETY DIVISION. CALL 910-343-0696.
 6. INVERT OF EXISTING SEWER CLEAN OUT IS 7.53 FEET BELOW RIM OF SSMH-10 AS SHOWN ON PLAN BY DAWSON ENGINEERING, TITLED PHYSICIANS DRIVE, PHASE 1, WILMINGTON MEDICAL PARK, SEALED FEB. 28, 1992.

- CFPUA SEWER NOTES:**
1. SEWER GUARDS REQUIRED IN MANHOLES. STAINLESS STEEL SEWER GUARDS ARE REQUIRED FOR SANITARY SEWER MANHOLES LOCATED IN TRAFFIC AREAS.
 2. SEWER SERVICE SHALL BE INSTALLED PERPENDICULAR TO MAINS AND TERMINATE AT THE PROPERTY/EASEMENT LINE PER STANDARD DETAIL.
 3. ALL SERVICES CONNECTING TO DUCTILE IRON PIPE (DIP) MAINS SHALL BE CONSTRUCTED OF CLASS 50 DIP, WITH PROTECTO 401 CERAMIC EPOXY LINING.
 4. A MINIMUM OF 10' UTILITY EASEMENT IS REQUIRED ALONG THE FRONTAGE OF ALL LOTS.
 5. NO FLEXIBLE COUPLINGS ARE PERMITTED.

Approved Construction Plan

Name _____ Date _____

Planning _____

Traffic _____

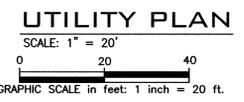
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SIGNATURE _____ DATE _____

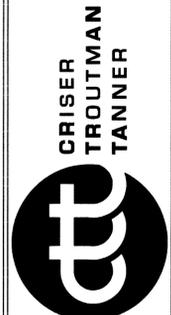
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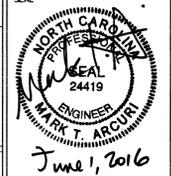
NO.	DATE	REVISIONS	COMMENT

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 www.cttengineering.com
 Firm License Number: F-0113



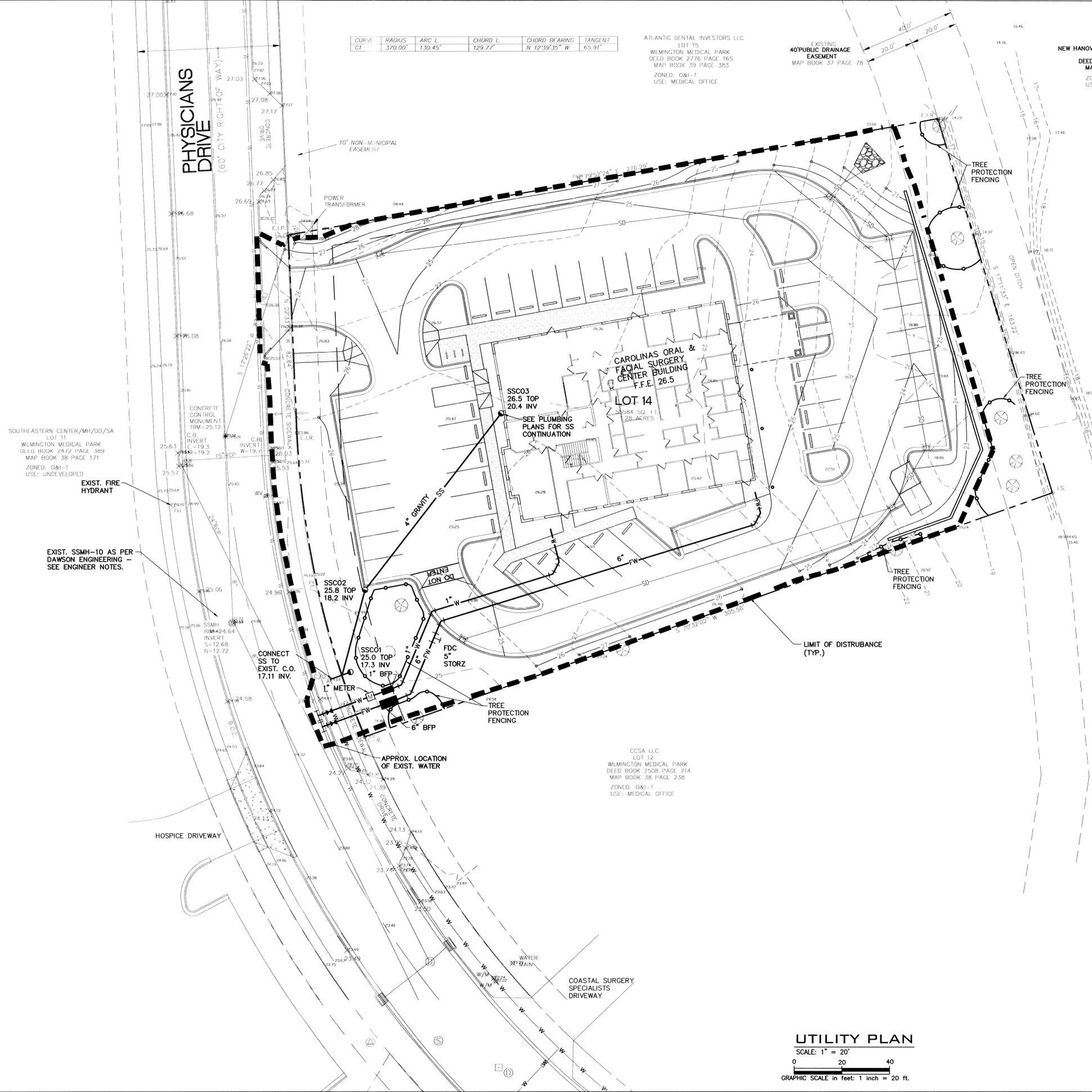
OWNER / DEVELOPER / APPLICANT
CAROLINAS ORAL & FACIAL SURGERY CENTER, INC.
 ADDRESS: 1122 MEDICAL CENTER DRIVE
 WILMINGTON, NORTH CAROLINA 28403
 PH: 910-762-2618
 FX: 910-763-5173

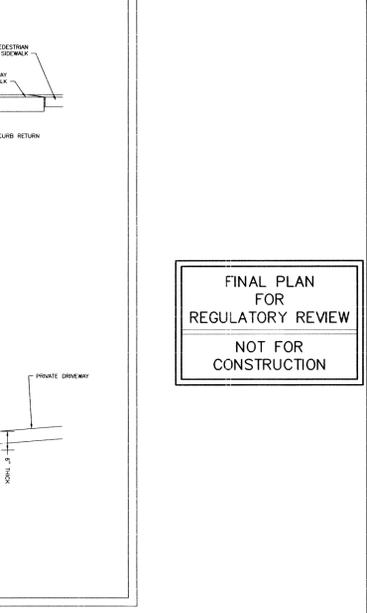
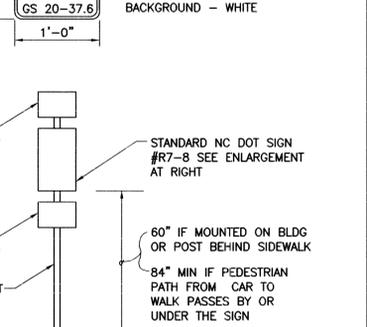
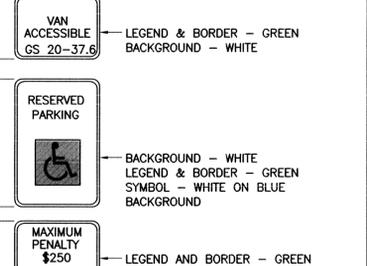
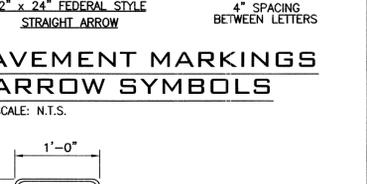
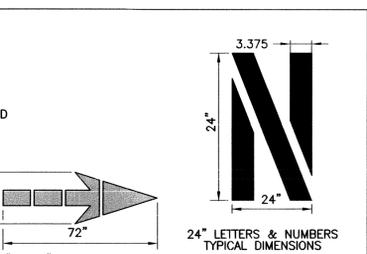
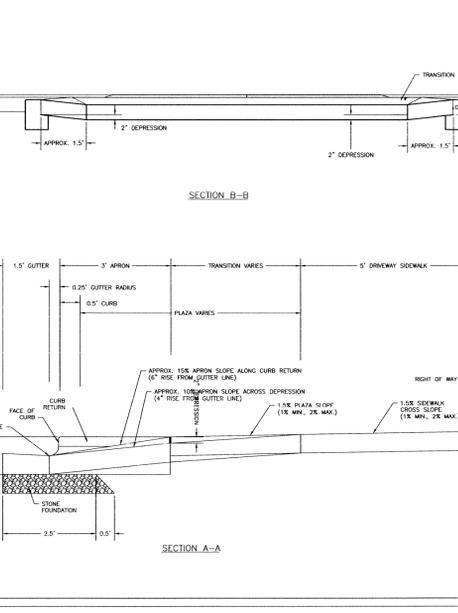
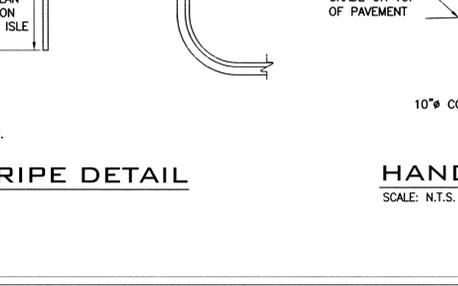
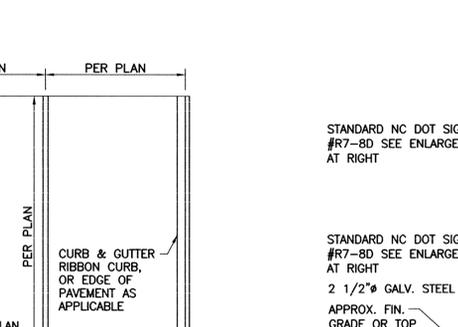
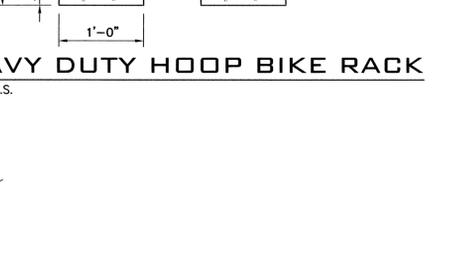
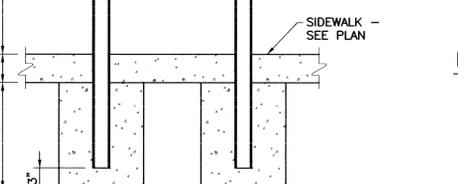
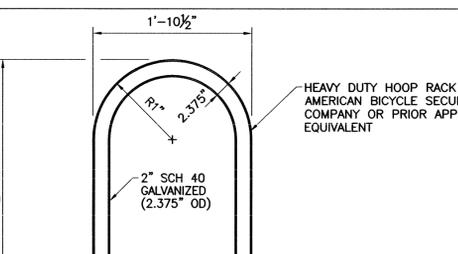
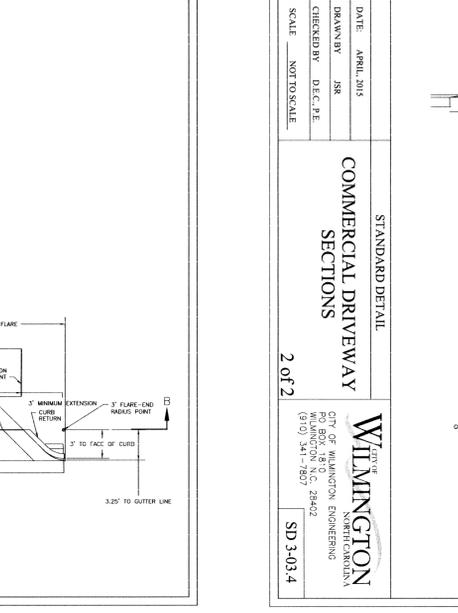
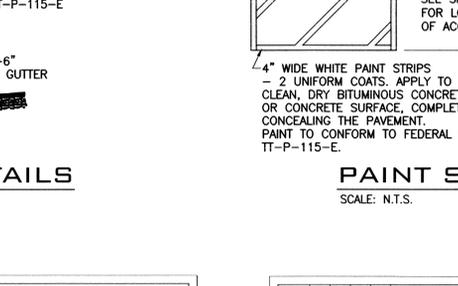
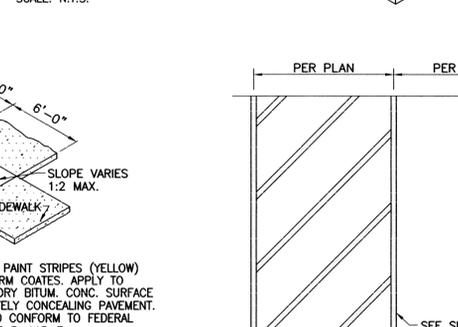
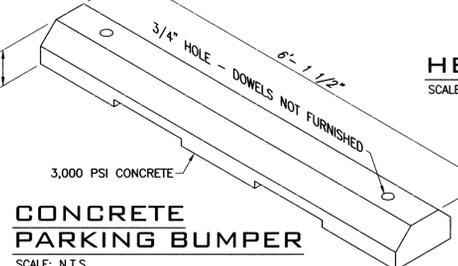
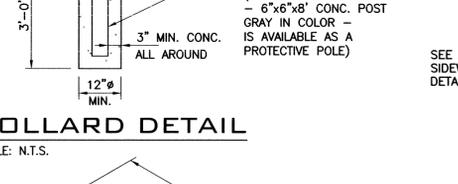
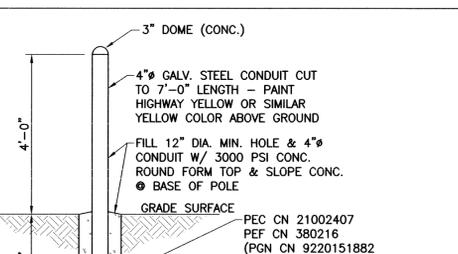
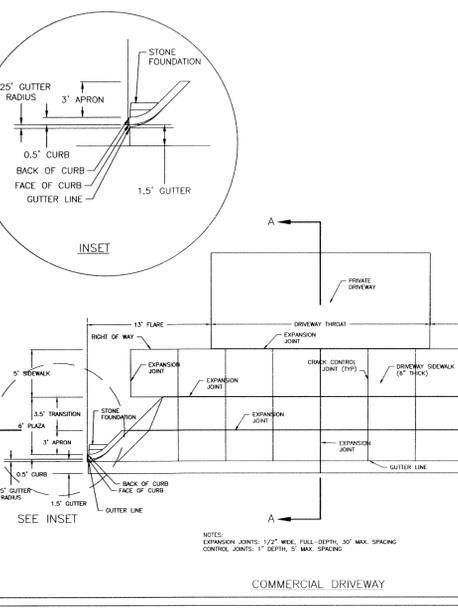
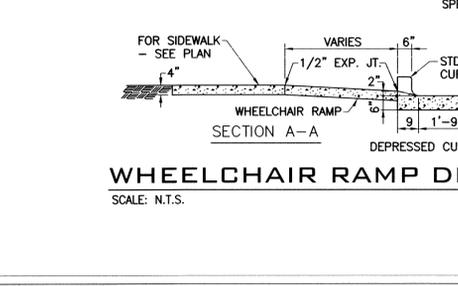
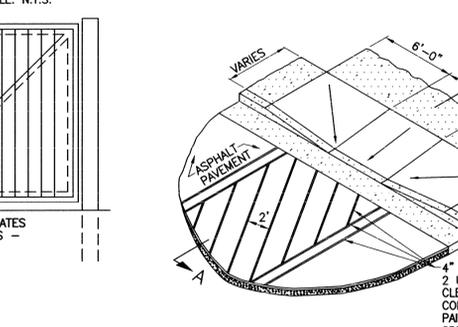
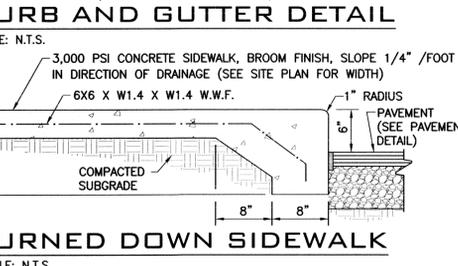
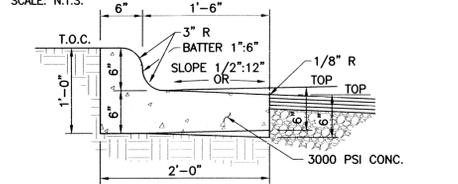
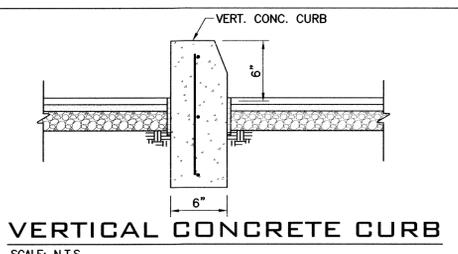
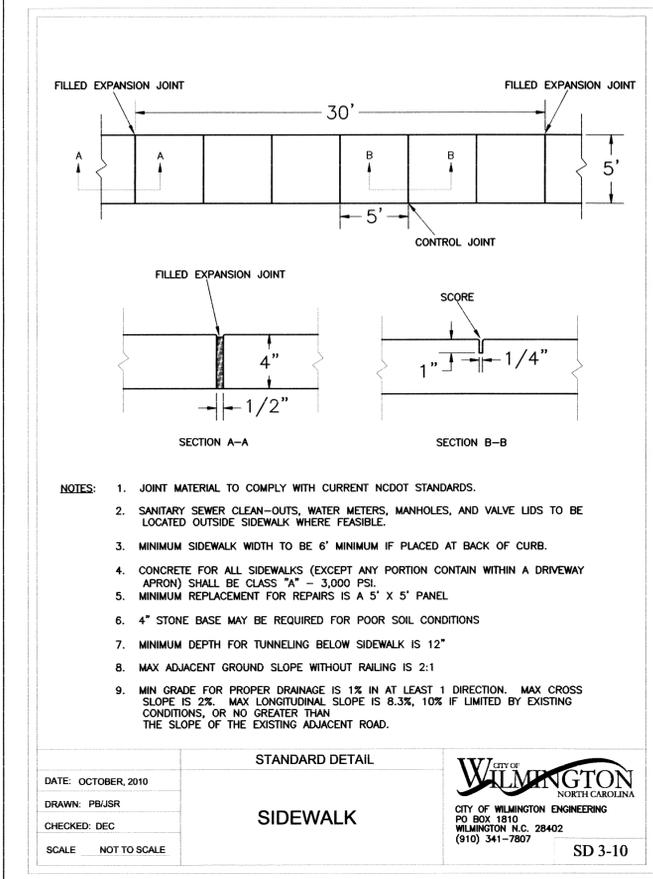
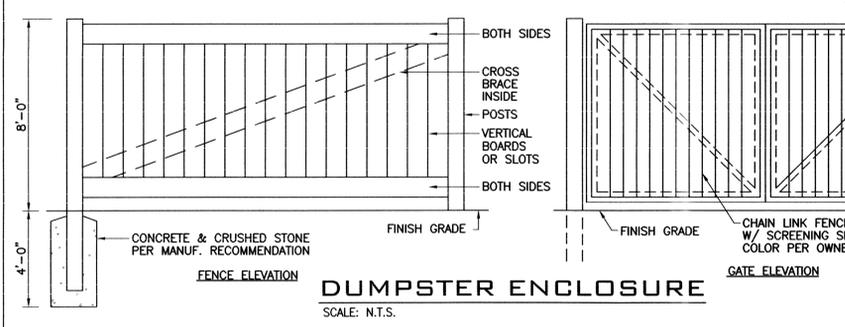
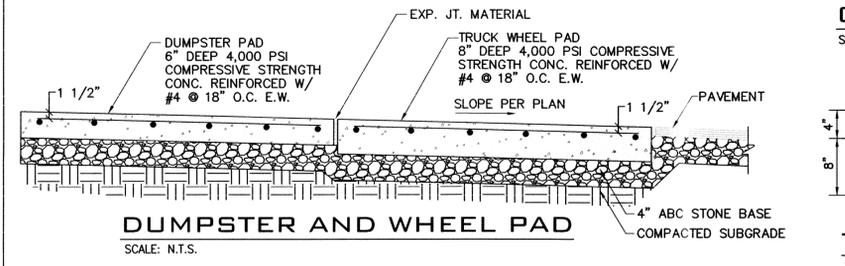
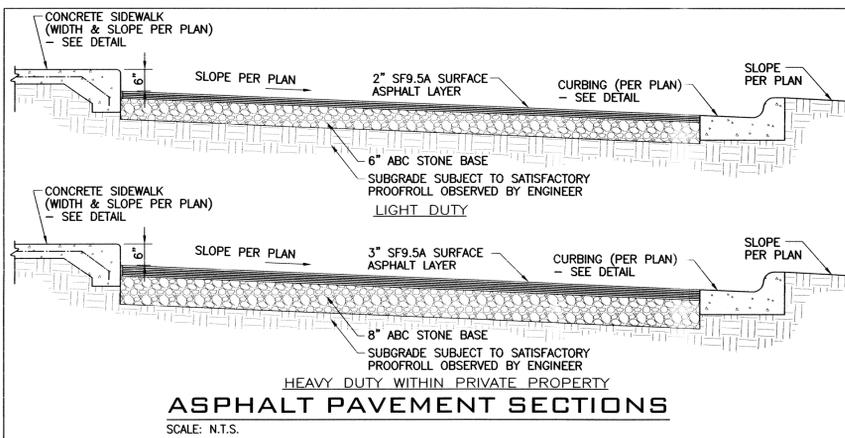
PROJECT:
CAROLINAS ORAL & FACIAL SURGERY CENTER
 ADDRESS: 1305 PHYSICIANS DRIVE
 WILMINGTON, NORTH CAROLINA 28403



DESIGNED BY: MARK T. ARCURRI
 DRAWN BY: HWL
 QUALITY CONTROL: MTA
 SCALE: NOTED
 FILE NUMBER: 7517.00
 DATE: 06-01-16

UTILITY PLAN
 SHEET NUMBER:
C4





FINAL PLAN FOR REGULATORY REVIEW
NOT FOR CONSTRUCTION

REVISIONS

NO.	DATE	BY	COMMENT

CRISER TROUTMAN TANNER CONSULTING ENGINEERS
3809 Peachtree Ave., Suite 402
Wilmington, NC 28403
910.397.2929 Ph.
www.ctteengineering.com
Firm License Number: F-0113

CRISER TROUTMAN TANNER

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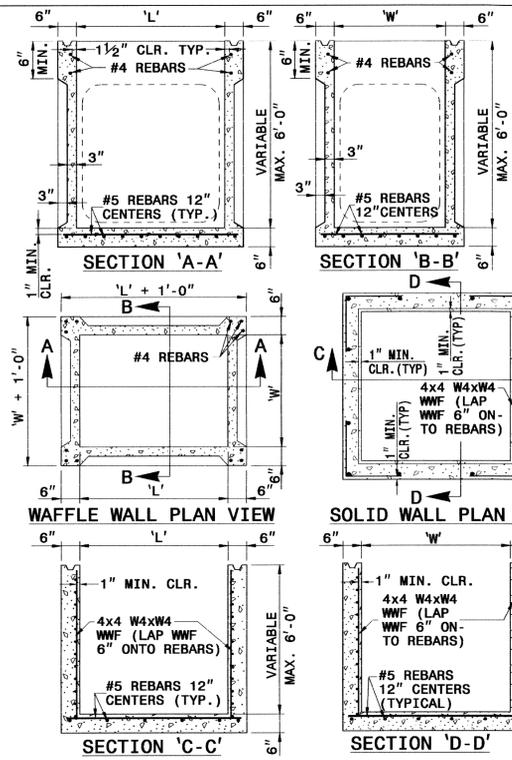
PROJECT:
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WILMINGTON, NORTH CAROLINA 28403

SEAL
MARK T. ARCURI
ENGINEER
24419
June 1, 2016

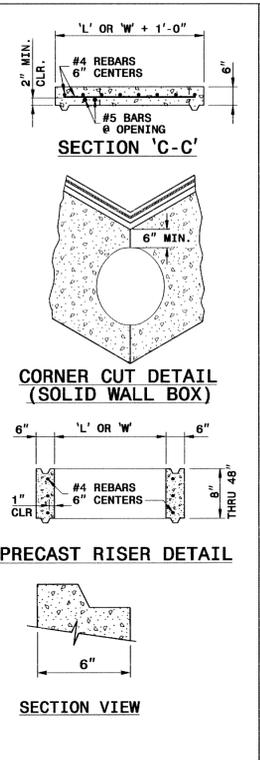
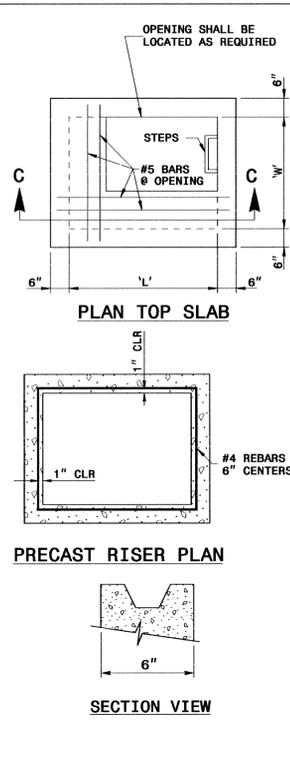
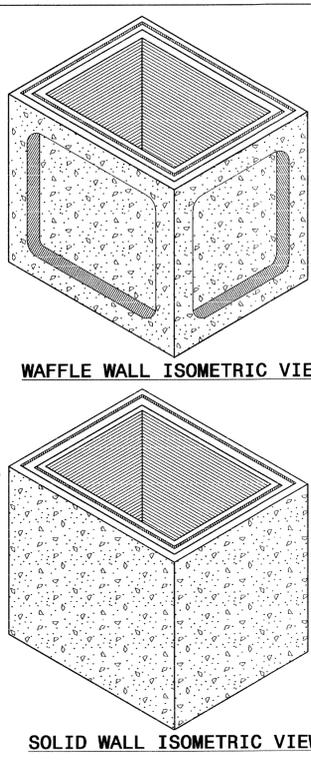
DESIGNED BY: HWL
QUALITY CONTROL: MTA
SCALE: NOTED
FILE NUMBER: 7517.00
DATE: 06-01-16

CIVIL DETAILS

SHEET NUMBER:
C5



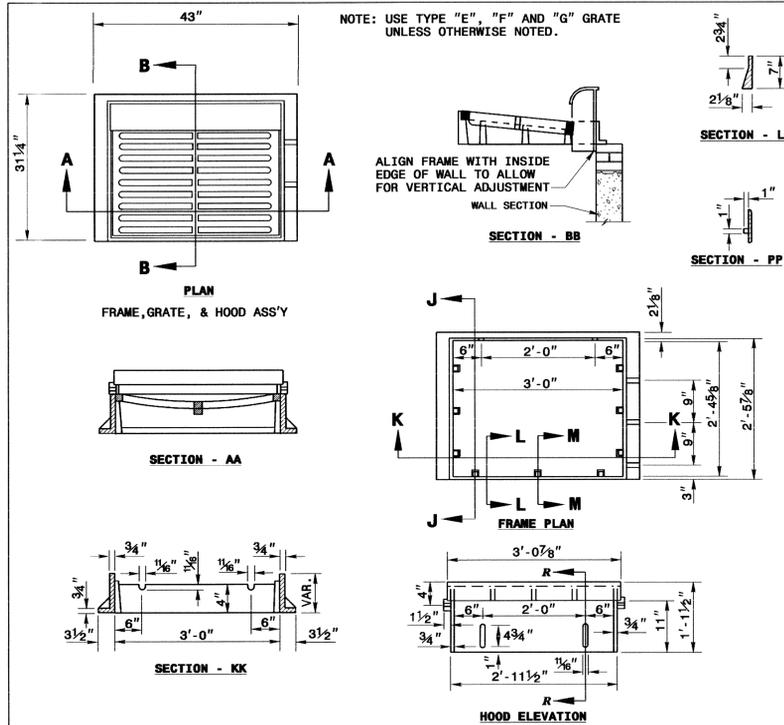
THE PATTERN OF THE KNOCK-OUT PANELS ARE SHOWN FOR ILLUSTRATIVE PURPOSES ONLY.



PRECAST DRAINAGE STRUCTURES (SOLID AND WAFFLE WALL)
SCALE: N.T.S. [NC DOT STANDARD DETAIL 840.45]

GENERAL NOTES:

- * THIS PRECAST BOX MAY BE USED FOR THE FOLLOWING STANDARDS: 840.01, 840.02, 840.04, 840.05, 840.11, 840.12, 840.14, 840.15, 840.17, 840.18, 840.19, 840.26, 840.27, 840.28, 840.31, 840.32 AND 840.41. USE 4000 PSI CONCRETE.
- * PROVIDE ALL REINFORCING STEEL WHICH MEETS ASTM A615 FOR GRADE 60 AND WELDED WIRE FABRIC CONFORMING TO ASTM A185.
- * LIMIT MAXIMUM DEPTH TO TOP OF BOTTOM SLAB FOR WAFFLE WALL STRUCTURE TO 10'-0"; LIMIT SOLID WALL STRUCTURE TO 15'-0".
- * PLACE LIFT HOLES OR PINS IN ACCORDANCE WITH OSHA STANDARD 1926.704.
- * CUT OR FORM OPENINGS FOR PIPE TO PROVIDE REQUIRED SIZE AND LOCATION. ORIENT WAFFLE WALL STRUCTURES SO THAT PIPES ENTER THROUGH THE KNOCKOUT/WAFFLE PANELS ONLY. PIPES MAY ENTER THROUGH THE CORNERS OF SOLID WALL BOXES IF A MINIMUM OF 6" OF WALL IS PROVIDED ABOVE THE HOLE.
- * ALL ELEMENTS PRECAST TO MEET ASTM C913.
- * FRAME AND GRATE HEIGHT MAY BE ADJUSTED WITH CONCRETE OR BRICK IN ACCORDANCE WITH STANDARD 840.25.
- * PROVIDE PRECAST STRUCTURES OVER 4'-0" IN DEPTH WITH STEPS AS DIRECTED BY THE ENGINEER.
- * WELDED WIRE FABRIC MAY BE SUBSTITUTED FOR REBAR AS LONG AS THE SAME AREA OF STEEL IS PROVIDED.
- * SEAL JOINTS WITH A FLEXIBLE BUTYL RUBBER BASE CONFORMING TO FEDERAL SPECIFICATION SS-S-21A, AASHTO M-198, TYPE B - BUTYL RUBBER.
- * LIMIT MAXIMUM STRUCTURE SIZE TO INSIDE CLEAR DIMENSIONS OF 5'-0" X 5'-0".
- * THE OUTSIDE PIPE DIAMETER PLUS 2" OR THE OPENING REQUIRED FOR FRAME AND GRATE IS THE MINIMUM STRUCTURE SIZE WHICHEVER IS GREATER.
- * USE FRAME AND COVER AS INDICATED ON THE PLANS. REINFORCE OPENING AS SHOWN ON THIS SHEET.



CATCH BASIN FRAME, GRATES, AND HOOD
SCALE: N.T.S. [NC DOT STANDARD DETAIL 840.03]

NOTES:

STRUCTURES:

1. PRECAST STRUCTURES SHALL MEET NCDOT 840.45 OR PRIOR APPROVED EQUIVALENT.
2. BRICK BUILT CATCH BASINS CAN ALTERNATIVELY BE USED, AND SHALL MEET NCDOT 840.01, OR PRIOR APPROVED EQUIVALENT.
3. CONCRETE CATCH BASINS CAN ALTERNATIVELY BE USED, AND SHALL MEET NCDOT 840.02, OR PRIOR APPROVED EQUIVALENT.
4. CONCRETE DROP INLETS CAN ALTERNATIVELY BE USED, AND SHALL MEET NCDOT 840.14, OR PRIOR APPROVED EQUIVALENT.
5. BRICK BUILT DROP INLETS CAN ALTERNATIVELY BE USED, AND SHALL MEET NCDOT 840.15, OR PRIOR APPROVED EQUIVALENT.

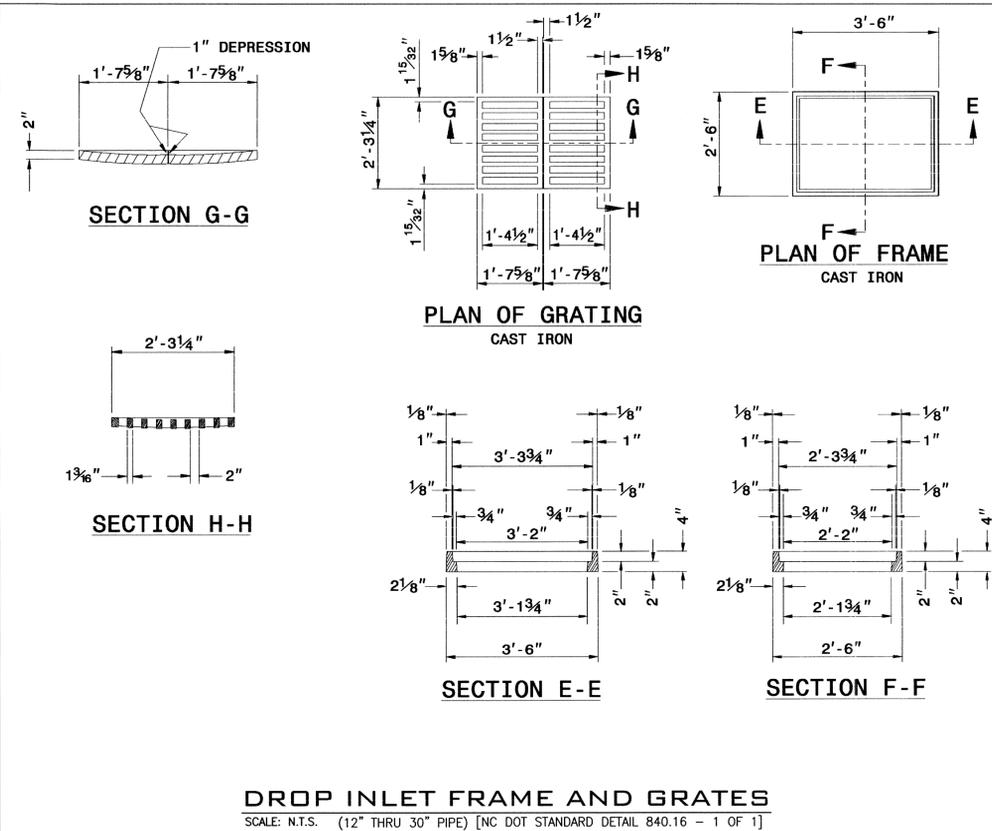
CASTINGS:

1. CATCH BASIN CASTINGS SHALL BE NCDOT 840.03, OR PRIOR APPROVED EQUIVALENT.
2. DROP INLET CASTINGS SHALL BE NCDOT 840.16, OR PRIOR APPROVED EQUIVALENT.
3. STORM DRAIN MANHOLE CASTINGS SHALL BE NCDOT 840.54, OR PRIOR APPROVED EQUIVALENT.

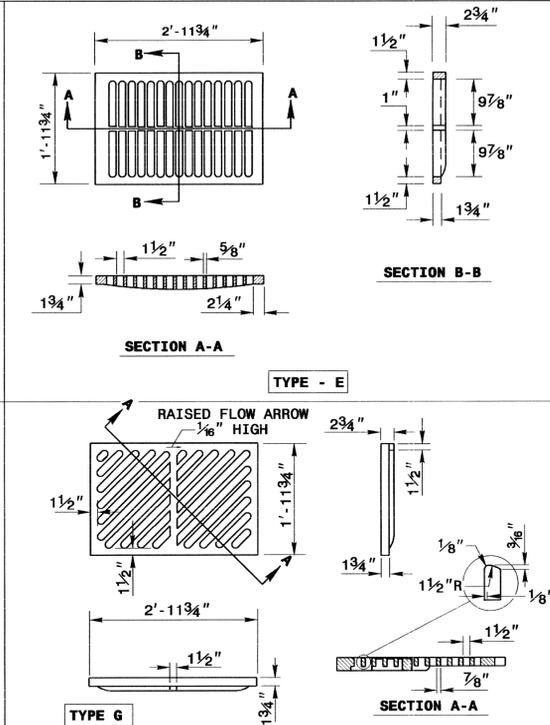
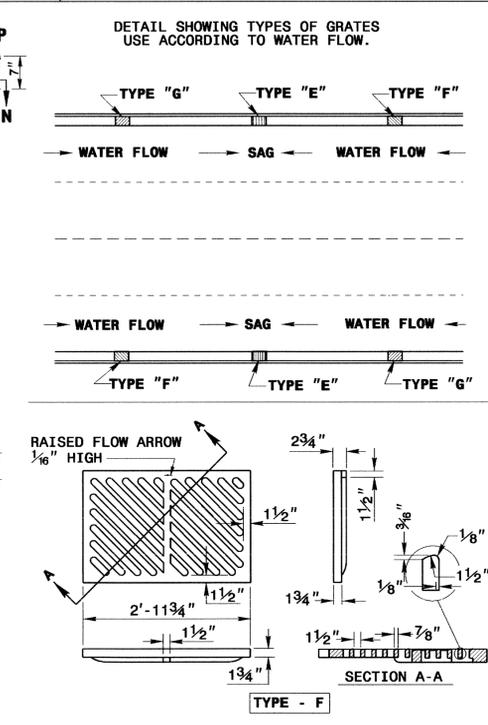
OTHER:

1. ORIENTATION OF STORM DRAIN INLETS ON PLAN ARE FOR THE GRATE AND/OR CASTINGS. MINIMUM STRUCTURE SIZE IS 2' X 2' PLAN DIMENSION. CONTRACTOR SHALL PROVIDE BOXES LARGER THAN MINIMUM SIZE, ORIENT THE BOX/STRUCTURE, AND/OR PROVIDE TRANSITION TOPS AS NECESSARY TO ACCEPT THE PIPE SIZES AND TO ACHIEVE THE PIPE ALIGNMENTS AS SHOWN ON THE PLAN. PIPES SHALL NOT CONNECT AT BOX CORNERS WITHOUT PRIOR APPROVAL FROM THE ENGINEER. SUMPS SHALL BE ZERO INCHES UNLESS OTHERWISE SHOWN. THERE SHALL BE NO MAN STEPS UNLESS OTHERWISE SHOWN.

FINAL PLAN FOR REGULATORY REVIEW
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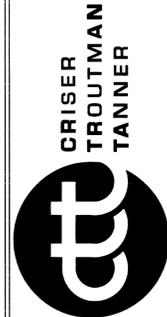
DROP INLET FRAME AND GRATES
SCALE: N.T.S. (12" THRU 30" PIPE) [NC DOT STANDARD DETAIL 840.16 - 1 OF 1]



CATCH BASIN FRAME, GRATES, AND HOOD
SCALE: N.T.S. [NC DOT STANDARD DETAIL 840.03]

REVISIONS	DATE	NO.	COMMENT

CRISER TROUTMAN TANNER CONSULTING ENGINEERS
3809 Peachtree Ave., Suite 4102
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Firm License Number: F-0113



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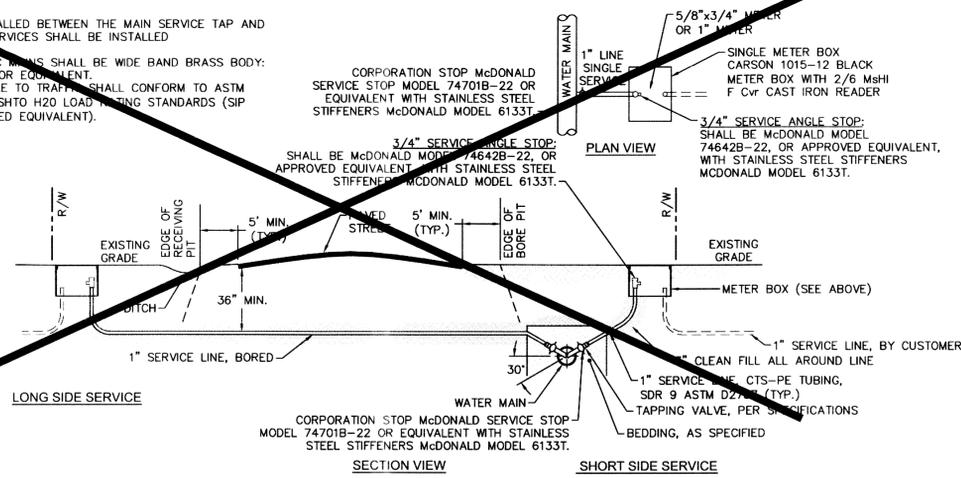
PROJECT:
CAROLINAS ORAL & FACIAL SURGERY CENTER
ADDRESS: 1305 PHYSICIANS DRIVE
WILMINGTON, NORTH CAROLINA 28403



DESIGNED BY: MARK T. ARCURI
DRAWN BY: HWL
QUALITY CONTROL: MTA
SCALE: NOTED
FILE NUMBER: 7517.00
DATE: 06-01-16

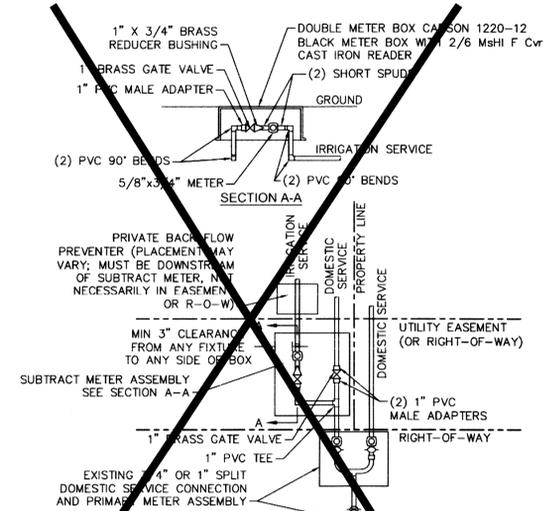
CIVIL DETAILS
SHEET NUMBER:
C7

- NOTES:
- NO JOINT SHALL BE INSTALLED BETWEEN THE MAIN SERVICE TAP AND THE METER STOP. SERVICES SHALL BE INSTALLED PERPENDICULAR TO MAIN.
 - SERVICE SADDLES ON PVC MAINS SHALL BE WIDE BAND BRASS BODY: SADDLE McDONALD 3801 OR EQUIVALENT.
 - METER BOXES SUSCEPTIBLE TO TRAFFIC SHALL CONFORM TO ASTM A48, CLASS 30B AND AASHTO H20 LOAD RATING STANDARDS (SIP MODEL 4242, OR APPROVED EQUIVALENT).



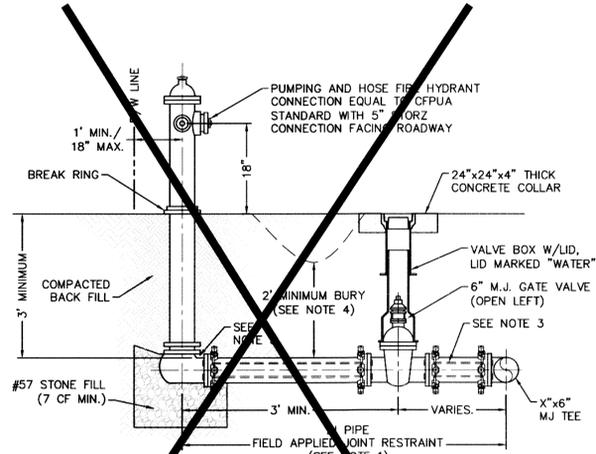
NOTE:
TYPICAL WATER SERVICE CONNECTION FOR RESIDENTIAL SINGLE FAMILY HOME ON CFPWA WATER SYSTEM

WD-18 SINGLE SERVICE CONNECTION
NOT TO SCALE



- NOTES:
- BEYOND THE PRIMARY DOMESTIC METER ASSEMBLY, CFPWA IS ONLY RESPONSIBLE FOR METER AND FISHERS OF SUBTRACT METER ASSEMBLY.
 - ALL PIPE AND FITTINGS UP TO FINAL SERVICE LINE TO BE 1" EXCLUDING METERS.

DOUBLE SERVICE CONNECTION USING SUBTRACT METER
NOT TO SCALE



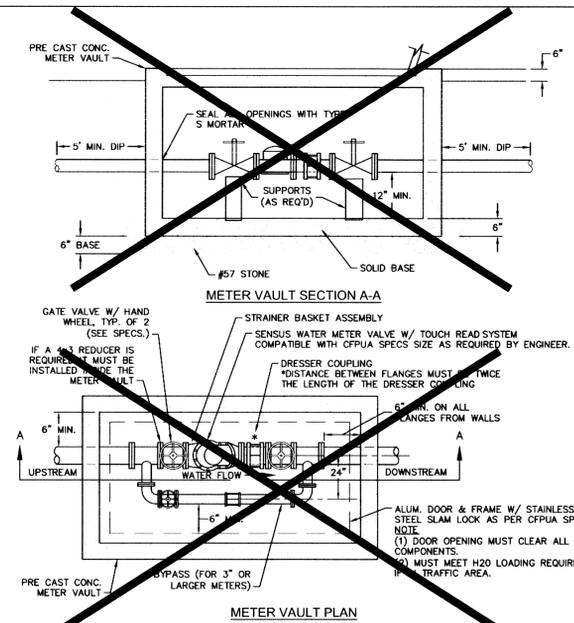
- NOTES:
- JOINT RESTRAINT SYSTEMS SHALL BE WEDGE ACTION STYLE FOR DI PIPE AS MANUFACTURED BY EBAA IRON, SIGMA, STAR PIPE PRODUCTS OR APPROVED EQUAL.
 - WHEN HYDRANT RISERS REQUIRE FULL LENGTH PIPE SECTIONS, OVER BELL RESTRAINT SYSTEM SHALL HAVE 316 STAINLESS STEEL HARNESS AND FASTENERS.
 - CONTINUOUS 316 STAINLESS STEEL RODS (TEE TO VALVE AND VALVE TO HYDRANT) MAY BE USED WITH COR-BLUE MJ T-BOLT AND GASKET KITS, AS AN ALTERNATIVE.
 - HYDRANT GATE VALVE SHALL BE PLACED OUTSIDE DITCH LIMITS.
 - WEEP HOLES OPEN AND UNBLOCKED TO DRAIN.

WD-10 FIRE HYDRANT ASSEMBLY
NOT TO SCALE

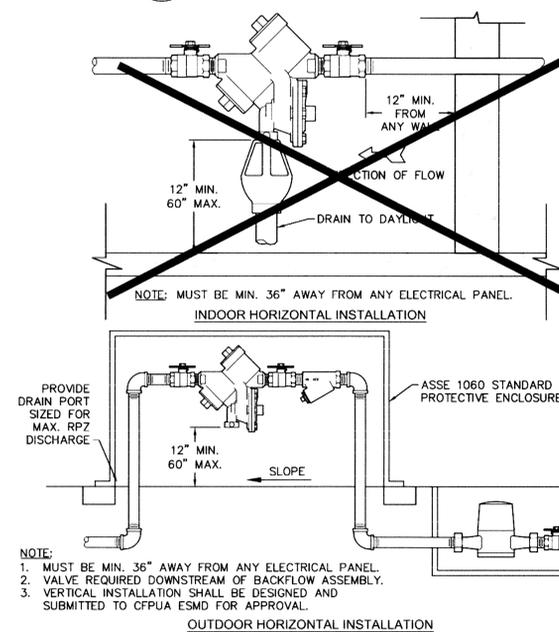
CAPE FEAR PUBLIC UTILITY AUTHORITY STANDARD NOTES:

- SEWER GUARDS REQUIRED AT ALL MANHOLES. STAINLESS STEEL SEWER GUARDS REQUIRED AT MANHOLES LOCATED IN TRAFFIC AREAS.
- WATER AND SEWER SERVICES SHALL BE PERPENDICULAR TO MAIN AND TERMINATE AT RIGHT-OF-WAY LINE. SEWER SERVICES IN CUL-DE-SACS ARE REQUIRED TO BE PERPENDICULAR, OR MUST ORIGINATE IN END OF LINE MANHOLE AND TERMINATE AT RIGHT-OF-WAY LINE.
- ALL SERVICES TYING INTO DUCTILE IRON MAINS SHALL BE CONSTRUCTED OF CLASS 50, DIP, WITH PROTECTO 401 CERAMIC EPOXY LINING.
- MINIMUM 10' UTILITIES EASEMENT PROVIDED ALONG THE FRONTAGE OF ALL LOTS AND AS SHOWN FOR NEW DEVELOPMENTS.
- NO FLEXIBLE COUPLINGS SHALL BE USED.
- ALL STAINLESS STEEL FASTENERS SHALL BE 316.
- CLEANOUTS SHALL BE LOCATED A MINIMUM OF 12 FEET FROM ALL PROPERTY CORNERS. WATER METER BOXES ARE TO BE A MINIMUM OF 5 FEET FROM THE PROPERTY CORNER.

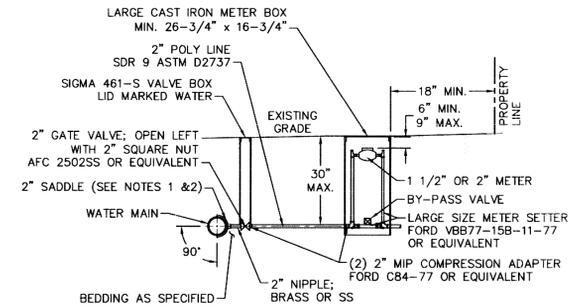
WD-19 STANDARD NOTES
(REQUIRED ON ALL PLAN AND PROFILE SHEETS)



WD-1 WATER METER VAULT
NOT TO SCALE



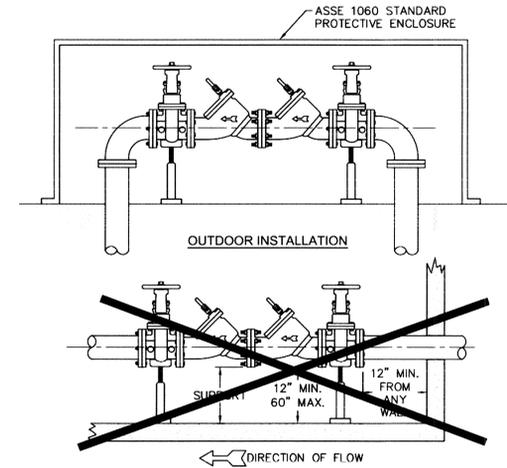
WD-12 REDUCED PRESSURE PRINCIPLE ASSEMBLY
NOT TO SCALE



- NOTES:
- ALL SERVICES SHALL BE INSTALLED PERPENDICULAR TO MAIN.
 - SERVICE SADDLES ON PVC MAINS SHALL BE WIDE BAND BRASS BODY: McDONALD 3800, FORD S90 (DOUBLE STRAP) OR EQUIVALENT.
 - METER BOXES SUSCEPTIBLE TO TRAFFIC SHALL CONFORM TO ASTM A48, CLASS 30B AND AASHTO H20 LOAD RATING STANDARDS (OLDCASTLE PRECAST MODEL B1730 OR APPROVED EQUIVALENT).
 - METER BOXES SUSCEPTIBLE TO INCIDENTAL, NON-DELIBERATE TRAFFIC SHALL CONFORM TO ANSI/SCTE 77 TIER 15 LOAD RATING STANDARDS (SYNERTECH MODEL DUO 17x30 OR APPROVED EQUIVALENT).
 - NON-TRAFFIC METER BOXES SHALL BE SIGMA MB2203 OR APPROVED EQUIVALENT.
 - 3" CLEAN FILL REQUIRED ALL AROUND 2" POLY SERVICE LINE.

FOR 1-1/2\"/>

WD-11 LARGE METER
NOT TO SCALE



WD-7 DOUBLE CHECK VALVE ASSEMBLY
NOT TO SCALE

- GENERAL NOTES:
- NO EXCAVATED MATERIAL SHALL BE PLACED IN ANY STREAM, DITCH OR DRAINAGE-WAY. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES BEFORE ANY CONSTRUCTION BEGINS.
 - THE CONTRACTOR IS RESPONSIBLE FOR TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES WHILE CONSTRUCTION IS IN PROGRESS.
 - THE CONTRACTOR IS RESPONSIBLE FOR STABILIZATION OF ALL DISTURBED AREAS.
 - THE CONTRACTOR IS RESPONSIBLE FOR LAY DOWN AND STOCKPILE AREAS (TO ARRANGE AND ENSURE COMPLIANCE WITH ALL LOCAL AND STATE REGULATIONS).

THE DETAILS SHOWN HEREON SUPERCEDE CFPWA WRITTEN TECHNICAL SPECIFICATIONS VERSIONS 1.00 - 1.04

REV:	DESCRIPTION:	DATE:
1	Single Service Connection, Double Service Connection, and Large Meter Revised	10/26/12
2	Single Service Connection and Fire Hydrant Details Revised	7/23/13
3	Fire Hydrant Detail Revised	01/03/14
4	Revised Fire Hydrant Assembly To Show 5\"/>	04/10/15
5	Revised Fire Hydrant Assembly To Show Full DIP Hydrant Leg	01/19/16
6	Revised Water Meter Vault and Large Meter Details, Added Standard Notes	02/15/16

CFPUA WATER DISTRIBUTION SYSTEM

STANDARD DETAILS



CAPE FEAR PUBLIC UTILITY AUTHORITY
235 GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403
OFFICE: (910)332-6560

DATE	1/9/12
SCALE	N/A
DRAWN BY	CFPUA
CHECKED BY	CFPUA
PROJECT NO.	

SHEET NO:
WSD-1

FINAL PLAN FOR REGULATORY REVIEW
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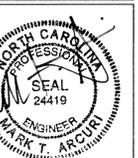
CRISER TROUTMAN TANNER CONSULTING ENGINEERS
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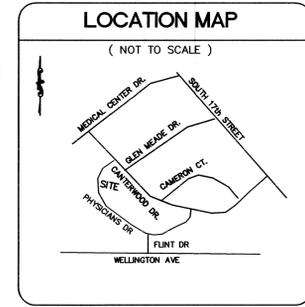
SHEET NUMBER:
C8

CURVE	RADIUS	ARC L.	CHORD L.	CHORD BEARING	TANGENT
C1	370.00'	130.45'	129.77'	N 12°39'35" W	65.91'

ATLANTIC DENTAL INVESTORS LLC
 LOT 15
 WILMINGTON MEDICAL PARK
 DEED BOOK 2776 PAGE 165
 MAP BOOK 39 PAGE 383
 ZONED: O&I-1
 USE: MEDICAL OFFICE

EXISTING
 40' PUBLIC DRAINAGE
 EASEMENT
 MAP BOOK 37 PAGE 78

NEW HANOVER REGIONAL MEDICAL CENTER
 LOT 9
 DEED BOOK 2235 PAGE 658
 MAP BOOK 37 PAGE 78
 ZONED: O&I-1
 USE: UNDEVELOPED



Drainage Device	Drainage Area (SF)	Drainage Area (AC)	Buildings (SF)	Pavement (SF)	Sidewalks (SF)	Total Impervious Area (SF)	Resultant C	Impervious Percentage
DI1	11,002	0.25	2,880	5,797	401	9,078	0.81	83%
DI2	1,426	0.03	0	1,387	39	1,426	0.95	100%
DI3	3,621	0.08	0	3,416	138	3,554	0.94	98%
DI4	12,757	0.29	3,267	6,791	603	10,661	0.82	84%
DI5	4,961	0.11	0	4,082	230	4,312	0.85	87%
DI6	11,287	0.26	1,080	6,111	1,069	8,260	0.74	73%
Totals	45,054	1.03	7,227	27,584	2,480	37,291	0.81	83%

SURVEY BY:
 HANOVER DESIGN SERVICES, P.A.
 DATE: October 24, 2007
 UPDATED: July 23, 2015

- SURVEYOR'S LEGEND**
- E.I.P. = EXISTING IRON PIPE
 - E.I.R. = EXISTING IRON REBAR
 - E.C.M. = EXISTING CONCRETE MONUMENT
 - C.P. = COMPUTED POINT
 - W.V. = WATER VALVE
 - S.S.M.H. = SANITARY SEWER MAN HOLE
 - F.H. = FIRE HYDRANT
 - C/O = CLEAN OUT
 - T.B.M. = TEMPORARY BENCH MARK
 - W/M = WATER METER
 - X = SPOT ELEVATION



FINAL PLAN
 FOR
 REGULATORY REVIEW
 NOT FOR
 CONSTRUCTION

Approved Construction Plan

Name _____ Date _____

Planning _____

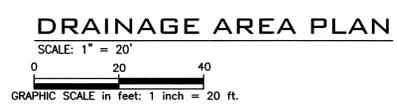
Traffic _____

Fire _____

DRAINAGE PLAN
 APPROVED
 CITY OF WILMINGTON
 STORMWATER DISCHARGE
 PERMIT NOT REQUIRED

SIGNATURE _____ DATE _____

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



SOUTHEASTERN CENTER/MH/DD/SA
 LOT 11
 WILMINGTON MEDICAL PARK
 DEED BOOK 2472 PAGE 389
 MAP BOOK 38 PAGE 171
 ZONED: O&I-1
 USE: UNDEVELOPED

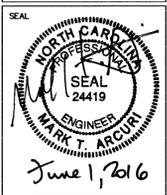
CCSA LLC
 LOT 12
 WILMINGTON MEDICAL PARK
 DEED BOOK 2508 PAGE 714
 MAP BOOK 38 PAGE 238
 ZONED: O&I-1
 USE: MEDICAL OFFICE

CRISER TROUTMAN TANNER
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 910.397.2971 Fax
 www.cttengineering.com
 Firm License Number: F-0113



OWNER / DEVELOPER / APPLICANT
CAROLINAS ORAL & FACIAL SURGERY CENTER, INC.
 ADDRESS:
 1122 MEDICAL CENTER DRIVE
 WILMINGTON, NORTH CAROLINA 28403
 PH: 910-762-2618
 FX: 910-763-5173

PROJECT:
CAROLINAS ORAL & FACIAL SURGERY CENTER
 ADDRESS:
 1305 PHYSICIANS DRIVE
 WILMINGTON, NORTH CAROLINA 28403



DESIGNED BY: MARK T. ARCURI
 DRAWN BY: HWL
 QUALITY CONTROL: MTA
 SCALE: NOTED
 FILE NUMBER: 7517.00
 DATE: 06-01-16

DRAINAGE AREA PLAN
 SHEET NUMBER:
C9