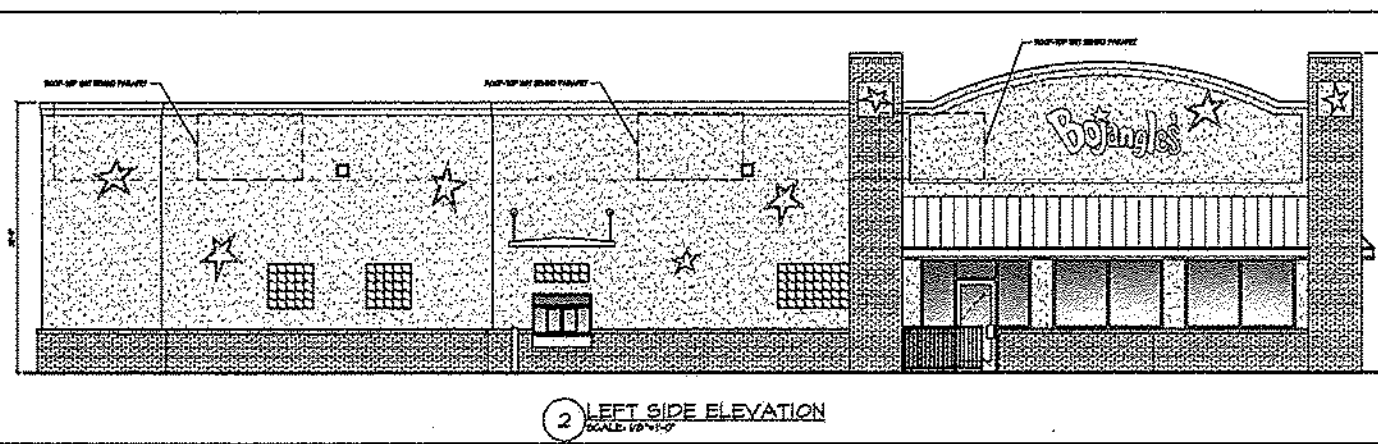


SITE PLANS and PROFILES of  
**COLLEGE ROAD SITE**



CITY OF WILMINGTON, NEW HANOVER CO.  
NORTH CAROLINA  
DATE: MARCH 2015



**ELEVATION VIEWS**  
Views - NTS



**CITY STANDARD NOTES:**

- PRIOR TO ANY CLEARING, GRADING OR CONSTRUCTION ACTIVITY, TREE PROTECTION FENCING SHALL BE INSTALLED AROUND PROTECTED TREES OR GROVES OF TREES AND NO CONSTRUCTION WORKERS, TOOLS, MATERIALS, OR VEHICLES ARE PERMITTED WITHIN THE TREE PROTECTION FENCING.
- ANY TREES AND / OR AREAS DESIGNATED TO BE PROTECTED MUST BE PROPERLY BARRICADED WITH FENCING AND PROTECTED THROUGHOUT CONSTRUCTION TO INSURE THAT NO CLEARING, GRADING OR STAGING OF MATERIALS WILL OCCUR IN THOSE AREAS.
- NO EQUIPMENT IS ALLOWED ON SITE UNTIL ALL TREE PROTECTION FENCING AND SILT FENCING IS INSTALLED AND APPROVED. PROTECTIVE FENCING IS TO BE MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT, AND CONTRACTORS SHALL RECEIVE ADEQUATE INSTRUCTION ON TREE PROTECTION METHODS.
- 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 AND 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.
- TRAFFIC ENGINEERING MUST APPROVE OF PAVEMENT MARKING PRIOR TO ACTUAL STRIPING.
- 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 OWNER IN ACCORDANCE WITH MUTCD STANDARDS.
- STOP SIGNS AND STREET SIGNS TO REMAIN IN PLACE DURING CONSTRUCTION.
- TACTILE WARNING MATS WILL BE INSTALLED ON ALL WHEELCHAIR RAMPS.
- A UTILITY CUT PERMIT IS REQUIRED FOR ANY CUT OF CITY STREET. IN CERTAIN CASES ENTIRE RESURFACING OF THE OPEN CUT AREA MAY BE REQUIRED.
- ANY BROKEN OR MISSING SIDEWALK OR DRIVEWAY PANELS OR CURBING WILL BE REPLACED. CONTACT THE CITY AT 341-7888 TO DISCUSS STREET LIGHTING OPTIONS.
- WATER AND SEWER SERVICE SHALL MEET CAPE FEAR PUBLIC UTILITY AUTHORITY (CFPUA) DETAILS AND SPECIFICATIONS.
- PROJECT SHALL COMPLY WITH CAPE FEAR PUBLIC UTILITY AUTHORITY CROSS CONNECTION CONTROL REQUIREMENTS. WATER METERS CANNOT BE RELEASED UNTIL ALL REQUIREMENTS ARE MET AND THE STATE HAS GIVEN THEIR FINAL APPROVAL. CALL 343-3910 FOR INFORMATION.
- THE CONTRACTOR DESIRES CPFWA WATER FOR CONSTRUCTION HE SHALL APPLY IN 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 CPFWA WATER SHALL COMPLY WITH CPFWA CROSS CONNECTION CONTROL REGULATIONS. CALL 343-3910 FOR INFORMATION.
- ANY IRRIGATION SYSTEM SHALL BE EQUIPPED WITH A RAIN AND FREEZER SENSOR.
- ANY BACKFLOW PREVENTION DEVICES REQUIRED BY CPFWA WILL NEED TO BE ON THE LIST OF APPROVED DEVICES BY USCFOOCHR OR ASSE.
- CONTRACTOR TO FIELD VERIFY EXISTING WATER AND SEWER SERVICE LOCATIONS, SIZES AND MATERIALS PRIOR TO CONSTRUCTION. ENGINEER TO BE NOTIFIED OF ANY CONFLICTS. CONTRACTOR SHALL MAINTAIN ALL WEATHER ACCESS FOR EMERGENCY VEHICLES AT ALL TIMES DURING CONSTRUCTION.
- UNDERGROUND FIRE LINES 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 810-341-0086.
- NO OBSTRUCTIONS ARE PERMITTED IN THE SPACE BETWEEN THIRTY (30) INCHES AND TEN (10) FEET ABOVE THE GROUND WITHIN THE TRIANGULAR SHIPYARD.
- CONTACT THE NORTH CAROLINA ONE CALL CENTER AT 1-800-632-4949 PRIOR TO ANY DIGGING, CLEARING OR GRADING.
- ANY PVC MAINS ARE TO BE MARKED WITH N610 INSULATED COPPER WIRE INSTALLED THE ENTIRE LENGTH AND STARTED TO THE PIPE WITH DUCT TAPING AND STRIPPED TO BARE WIRE AND SECURED TO ALL VALVES AND FITTINGS, ACCESSIBLE IN ALL VALVE AND METER BOXES. ALL WATER MAINS ARE TO HAVE A MINIMUM OF 3' COVER.

- ADDITIONAL FIRE DEPARTMENT NOTES:
- HYDRANTS MUST BE WITHIN 150' OF THE FDC
  - THE FDC MUST BE WITHIN 40' OF FIRE APPARATUS PLACEMENT
  - LANDSCAPING MAY NOT BLOCK ANY FDC OR HYDRANT WITH A 3' CLEAR SPACE MAINTAINED
  - CONTRACTOR TO MAINTAIN ALL WEATHER ACCESS FOR EMERGENCY VEHICLES DURING CONSTRUCTION
  - HYDRANTS MUST BE LOCATED WITHIN 5' OF THE CURB
  - NEW HYDRANTS MUST BE AVAILABLE FOR USE PRIOR TO BUILDING CONSTRUCTION

PROPOSED SEWER & WATER USAGE SAME AS EXISTING

- LEGEND**
- WV = WATER VALVE
  - WM = WATER METER
  - CIO = SANITARY SEWER CLEAN OUT
  - INV. = INVERT
  - BFF = BACK FLOW PREVENTOR
  - GW = GUY WIRE
  - SWMH = STORM MANHOLE
  - GT. = GREASE TRAP
  - PH = FIRE HYDRANT
  - IS. = IRON SET
  - CS = SANITARY SEWER MANHOLE
  - CI = CURB INLET
  - TREE
  - STREET LIGHT
  - WATER SERVICE
  - SEWER CLEANOUT
  - WATER VALVE
- SURVEY NOTES:**
- AREA COMPUTED BY COORDINATE METHOD
  - ALL DISTANCES ARE HORIZONTAL GROUND
  - THIS SURVEY IS NOT FOR RECORDATION, IT DOES NOT MEET ALL REQUIREMENTS OF G.S. 47-30.
  - PROPERTY SUBJECT TO ALL EASEMENTS OF RECORD
  - THE UNDERGROUND UTILITIES SHOWN ON THIS SURVEY ARE LOCATED FROM FIELD SURVEY INFORMATION, AND EXISTING AS-BUILT DRAWINGS. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH THE SURVEYOR DOES CERTIFY THAT THE UTILITIES ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.
  - FOR REFERENCE SEE AS NOTED
  - THIS TRACT IS NOT LOCATED IN A SPECIAL FLOOD HAZARD AREA

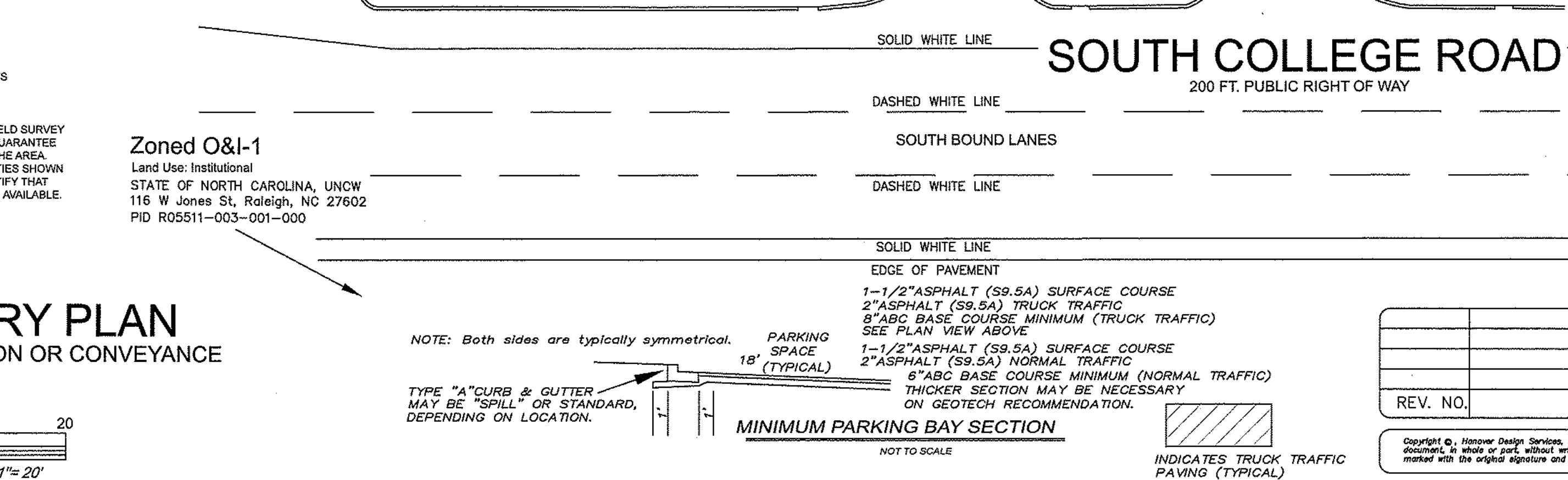
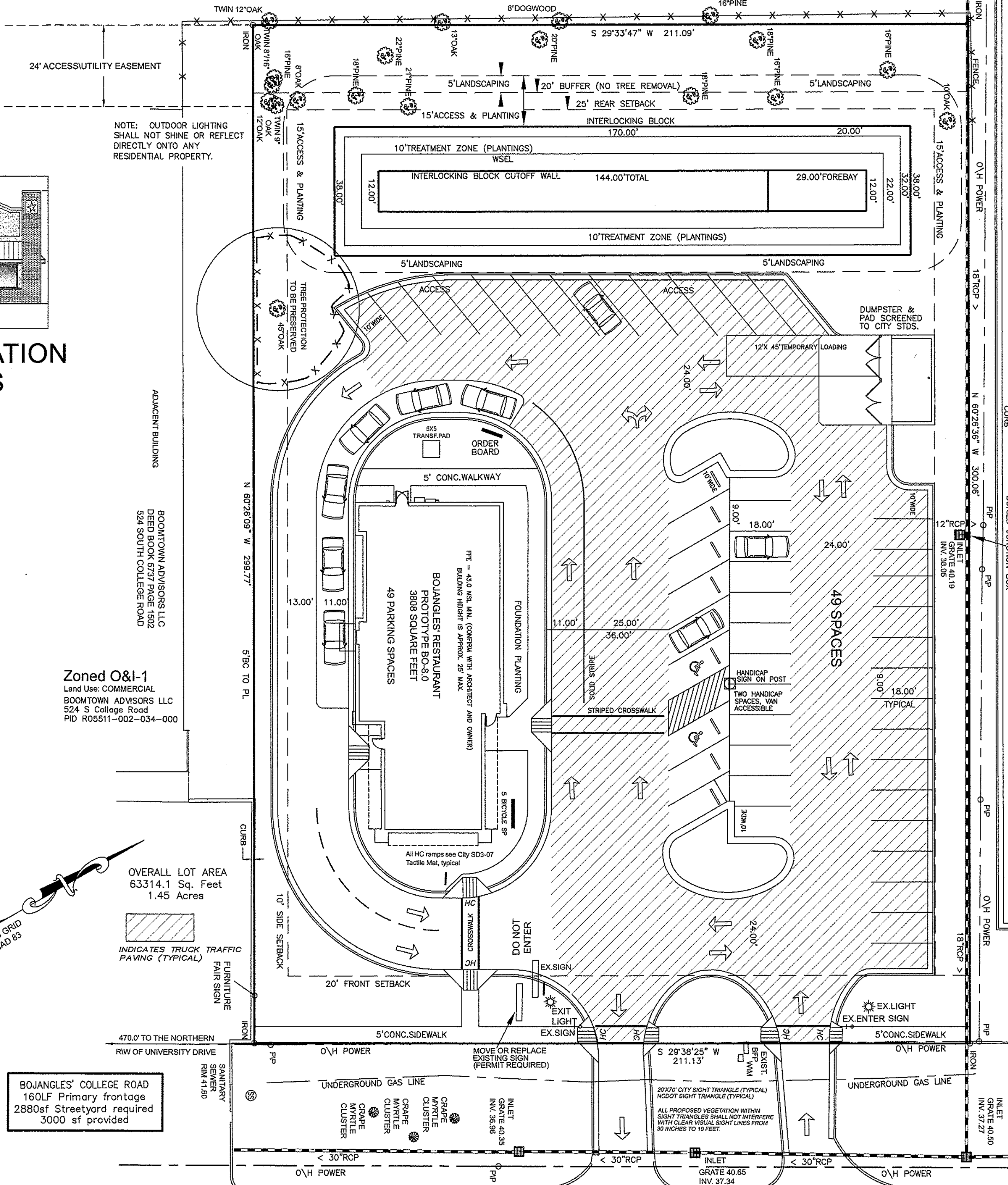
**Zoned O&I-1**  
Land Use: Institutional  
STATE OF NORTH CAROLINA, UNCW  
116 W Jones St, Raleigh, NC 27602  
PID R05511-003-001-000

**PRELIMINARY PLAN**  
NOT FOR RECORDATION OR CONVEYANCE



F: ALL \PROJECT FOLDERS\BOJANGLES\12354\12354\_SHT1

**Zoned MF-M**  
Land Use: Residential  
K PARTNERSHIP  
PO BOX 10009 GREENSBORO, NC 27404  
PID R05507-002-070-000

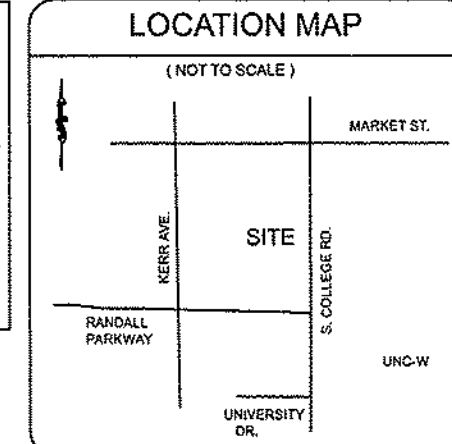


For each open utility cut of City streets, a \$325 permit shall be required from the City prior to occupancy and/or project acceptance.

**STORMWATER MANAGEMENT PLAN**  
APPROVED  
CITY OF WILMINGTON  
ENGINEERING DEPARTMENT  
DATE \_\_\_\_\_  
PERMIT # \_\_\_\_\_  
SIGNED \_\_\_\_\_

**Approved Construction Plan**

Name	Date
Planning	
Traffic	
Fire	



**GENERAL NOTES:**

- This map is not for conveyance, recordation, or sales.
- This property is located within a special flood hazard area X according to Flood Insurance Rate Map Community Panel #37203137A, effective date April 3, 2006.
- Area = 1.45 acres
- Building layout and dimensions by others.
- This property is zoned City of Wilmington O&I-1. Building setbacks are as follows:  
20' from College Road Right-of-Way  
10' from Interior Side  
25' from Rear (residential)
- Handicap Ramps provided at all intersections and one per building.
- 15 suitable trees per acre are to be preserved or planted in accordance with City of Wilmington standards.
- Parking areas and streets to be lighted in accordance with City of Wilmington standards.
- Refuse collection by dumpster and private hauler.
- 49 total parking spaces provided this Project.
- NO CONSTRUCTION IS TO BEGIN BEFORE LOCATION OF EXISTING UTILITIES HAS BEEN DETERMINED. CALL "NO ONE-CALL" AT LEAST 48 HOURS BEFORE COMMENCING CONSTRUCTION. 1-800-632-4949
- Affected Non-Municipal Utilities shall be contacted and provided with plans and other pertinent information, when feasible, to coordinate scheduling and placement. At the minimum this should include AT&T and Duke (Progress) Energy.
- Project shall comply with CPFWA Cross Connection Control requirements. Water meter(s) cannot be released until all requirements are met.
- If the contractor desires CPFWA water for construction he shall apply in 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 CPFWA water shall comply with CPFWA Connection Control regulations.
- Reflectors shall be installed as per City and NCDOT standards.

**ADDITIONAL NOTES:**

- AS PART OF SITE IMPROVEMENTS FOR A SUBDIVISION OR SITE PLAN, ANY BROKEN OR MISSING SIDEWALK PANELS, DRIVEWAY PANELS, AND/OR CURBING ADJACENT TO THE PROJECT AREA SHALL BE REPLACED BY THE DEVELOPER. THIS SHALL BE REQUIRED WHETHER THE DAMAGE EXISTED PRIOR TO THE START OF CONSTRUCTION OR MAY HAVE BEEN CAUSED DURING CONSTRUCTION.
- PER THE REQUIREMENTS OF THE STORMWATER PERMIT, THE FOLLOWING SHALL OCCUR PRIOR TO ISSUANCE OF A CERTIFICATE OF OCCUPANCY OR OPERATION OF THE PERMITTED FACILITY.
  - AN ENGINEER'S CERTIFICATION SHALL ALSO BE SUBMITTED, ALONG WITH ALL SUPPORTING DOCUMENTATION THAT SPECIFIES, UNDER SEAL, THAT THE AS-BUILT STORMWATER MEASURES, CONTROLS AND DEVICES ARE IN COMPLIANCE WITH THE APPROVED STORMWATER MANAGEMENT PLANS.
  - A FINAL INSPECTION BY CITY OF WILMINGTON ENGINEERING PERSONNEL.
- ALL REQUIRED EASEMENT MAPS SHALL BE REVIEWED BY CITY STAFF AND RECORDED PRIOR TO ISSUANCE OF A CERTIFICATE OF OCCUPANCY.

**OTHER NOTES:**

- THIS PLAN IS PRELIMINARY, NOT INTENDED FOR RECORDATION, SALES, OR CONVEYANCE.
- SURVEYED IN 2013, AND 2014.
- ALL DISTANCES AS SHOWN ARE HORIZONTAL.
- SEWER PROVIDED BY CPFWA
- WATER PROVIDED BY CPFWA
- ANTICIPATED UTILITIES USE IS UNCHANGED.
- SITE WILL MEET ALL ZONING REQUIREMENTS.
- AREA COMPUTED BY COORDINATE METHOD.
- REGULATED TREES ON SITE TO BE PRESERVED AS SHOWN.
- STRIPING AND LANES TO CITY STANDARDS (THERMOPLASTIC).
- NO VEHICULAR ACCESS TO SITE EXCEPT AS SHOWN.
- ALL UTILITIES UNDERGROUND.
- COMBINED GRID FACTOR = 1.00000.
- FOR REFERENCE SEE: DB 1991 PG 087
- ONE SIGNIFICANT TREE ON SITE TO BE PRESERVED.

**STANDARD NOTES:**

- Information concerning underground utilities was obtained from available records. It shall be the responsibility of the Contractor to determine the exact elevations and locations of all existing utilities at all crossings prior to commencing trench excavation. If actual clearances are less than indicated on Plan, the Contractor shall contact the Design Engineer before proceeding with construction. Any condition discovered or existing that would necessitate a modification of these plans shall be brought to the attention of the Design Engineer before proceeding with construction.
- NO CONSTRUCTION IS TO BEGIN BEFORE LOCATION OF EXISTING UTILITIES HAS BEEN DETERMINED. CALL "NO ONE-CALL" AT LEAST 48 HOURS BEFORE COMMENCING CONSTRUCTION.
- All trees which are not required to be cleared for construction shall be preserved wherever possible unless otherwise directed.
- Contractor shall adjust all manholes, valve and curb boxes to the final grade upon completion of all construction. Any boxes damaged or otherwise disturbed by the Contractor shall be repaired at the expense of the Contractor.
- The Contractor is responsible for controlling dust and erosion during construction at his expense. Roads shall be watered to control dust when ordered by the Engineer.
- No geotechnical testing has been performed on site. No warranty is made for suitability of subgrade, and undercut and any required replacement with suitable material shall be the responsibility of the contractor.
- Extreme care shall be taken to ensure minimum separations at all utility crossings.
- Contractor to ensure that pavement is placed so as to drain positively to the curb outlets and catch basins. All roof drain downspouts to be directed to the storm sewer system.
- Contractor is responsible for obtaining all required permits.
- This plan is for site grading, roadwork, drainage, land disturbing activities and erosion control only.
- No encumbrances in R/W except as shown.
- Affected Non-Municipal Utilities shall be contacted and provided with plans and other pertinent information, when feasible, to coordinate appropriate scheduling and placement. At the minimum this should include AT&T and Duke (Progress) Energy.

**BENCHMARK LOCATIONS AND ELEVATIONS**

LOCATION	ELEVATION
1 MAGNETIC NAIL AT SOUTHERNMOST CORNER EXISTING DUMPSTER ENCLOSURE	40.49

**INDEX TO SET DRAWINGS**

SHEET No.	DESCRIPTION	DRAWING No.
1 OF 4	Site Plan Cover Sheet and General Notes	12354-SHT1
2 OF 4	Site & Utilities Plan	12354-SHT2
3 OF 4	Site Grading, Stormwater & Erosion Control Measures	12354-SHT3
4 OF 4	Details, Specifications and Notes	12354-SHT4
1 OF 1	Additional Bojangles' Standard Details & Dumpster Plans	BOJANGLES'
1 OF 1	Landscape Plan by Freeman Landscape Inc.	Freeman
1 OF 1	Existing Conditions and Tree Identification Survey	12354-Survey BASE
1 OF 1	Construction Staging and Demolition Plan	12354-SHT5

Site Plan Cover Sheet and General Notes

**BOJANGLES' College Road**  
LOCATED IN CITY OF WILMINGTON

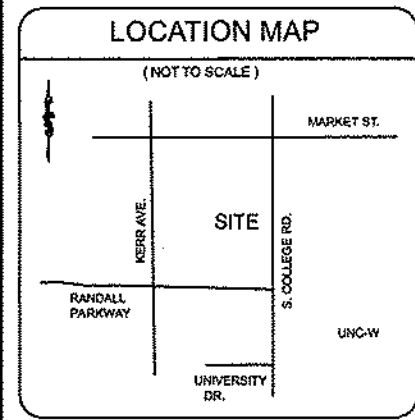
SMITHVILLE TOWNSHIP  
NEW HANOVER COUNTY, NORTH CAROLINA

DEVELOPER: BOJANGLES' RESTAURANTS INC.  
9432 SOUTHERN PINES BLVD.  
CHARLOTTE, NC 28273 phone: 704-940-8669

HANOVER DESIGN SERVICES, P.A.  
LAND SURVEYORS, ENGINEERS & LAND PLANNERS  
1123 FLORAL PARKWAY  
WILMINGTON, NC 28403  
PHONE: (910) 343-8002  
LICENSE # C-0597

Scale: 3/12/15  
Sheet: 1 of 4  
Date: 3-30-15  
Drawn: DSH  
Checked: DSH  
Project No: 12354

dhollis @ hdsllm.com



**LEGEND**

- WV = WATER VALVE
- WM = WATER METER
- CIO = SANITARY SEWER CLEAN OUT
- INV. = INVERT
- BFP = BACK FLOW PREVENTOR
- GW = GUY WIRE
- SWMH = STORM MANHOLE
- GT. = GREASE TRAP
- FH = FIRE HYDRANT
- I.S. = IRON SET
- SS = SANITARY SEWER MANHOLE
- CS = CURB INLET
- TREE = TREE
- SL = STREET LIGHT
- WS = WATER SERVICE
- SC = SEWER CLEANOUT
- WV = WATER VALVE

- PROPERTY LINE
- BUILDING SETBACK
- CENTERLINE
- EASEMENT
- COMPUTED PROPERTY LINE
- 18" PALM
- INDICATES TREE TO BE REMOVED

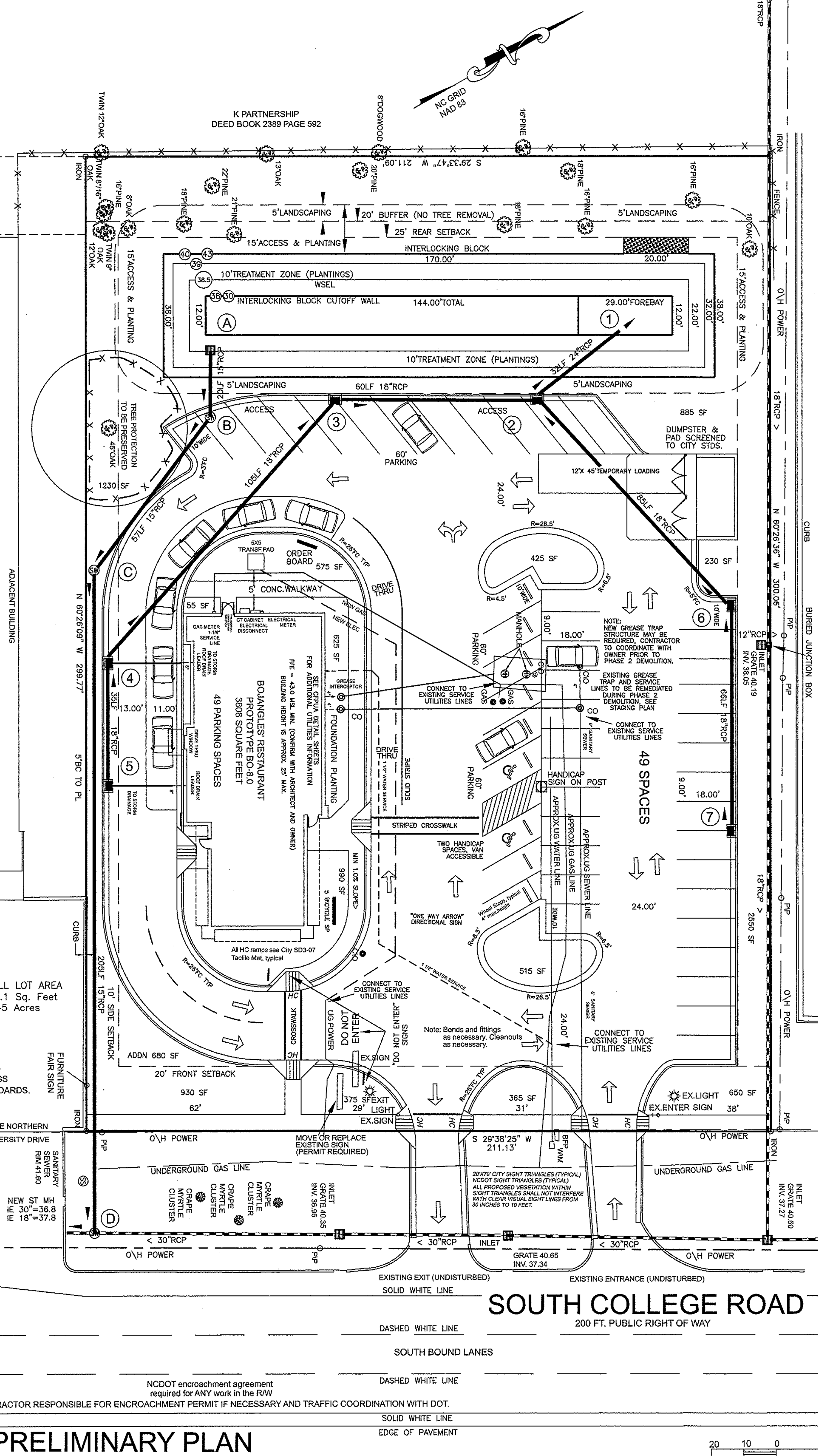
BOJANGLES' COLLEGE ROAD  
160LF Primary frontage  
2880sf Streetyard required  
3000 sf provided

TRAFFIC CONTROL SIGNS  
AND PAVEMENT MARKINGS  
AS PER CITY and NCDOT STANDARDS.

OVERALL LOT AREA  
63314.1 Sq. Feet  
1.45 Acres

NCDOT encroachment agreement  
required for ANY work in the RW  
CONTRACTOR RESPONSIBLE FOR ENCROACHMENT PERMIT IF NECESSARY AND TRAFFIC COORDINATION WITH DOT.

**PRELIMINARY PLAN**  
NOT FOR RECORDATION OR CONVEYANCE



**Bojangles'**

**Parking: "Restaurant"**  
3185 sf exclusive of kitchen and restroom  
49 spaces maximum @ 1/65sf  
40 spaces minimum @ 1/80sf  
47 regular spaces provided  
2 van accessible HC spaces provided  
No loading space required - one provided  
5 bicycle spaces required - 5 provided

NOTE: NO WETLANDS ON THIS SITE.  
CAMA LAND USE CLASSIFICATION: "URBAN"  
SITE NOT IN A SHOD OR COD.  
APPROXIMATE TIME TO COMPLETION: UNDER 1 YEAR.

**PAVEMENT MARKING**  
ARROWS MUST BE AT LEAST  
1/2 SIZE STANDARD ROADWAY  
ARROWS AS PER CITY TECH.STDS.

**TRAFFIC CONTROL SIGNS  
AND PAVEMENT MARKINGS**  
AS PER CITY and NCDOT STANDARDS.

ONE SIGNIFICANT TREE ON SITE TO BE PRESERVED.  
REGULATED TREES TO BE REMOVED ARE FOR ESSENTIAL  
SITE IMPROVEMENTS. NO REGULATED TREES ARE LOCATED IN  
EXCESS PARKING AREAS.

NOTE: DETAILED LANDSCAPING  
PLAN TO CITY  
STANDARDS BY OTHERS.

**SITE DATA TABLE:**  
TAX PARCEL IDENTIFICATION NUMBERS:  
ROSS07-002-069-000  
DB 1991 PG 087

ZONING: O&I-1

SETBACKS OF BUILDING:  
REQUIRED: FRONT - 20' REAR - 25' SIDE - 10'  
PROVIDED: FRONT - 59' REAR - 140' SIDE - 21'

ACREAGE = 1.45 ACRES (63,314 sf)

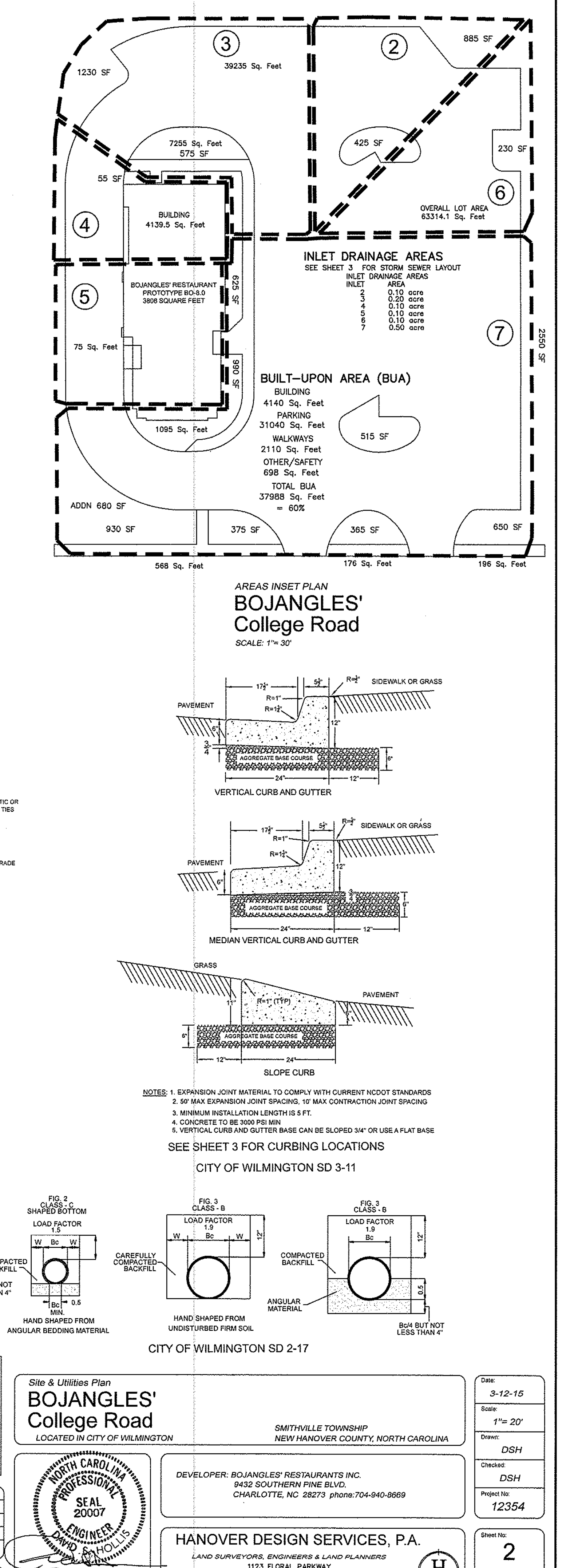
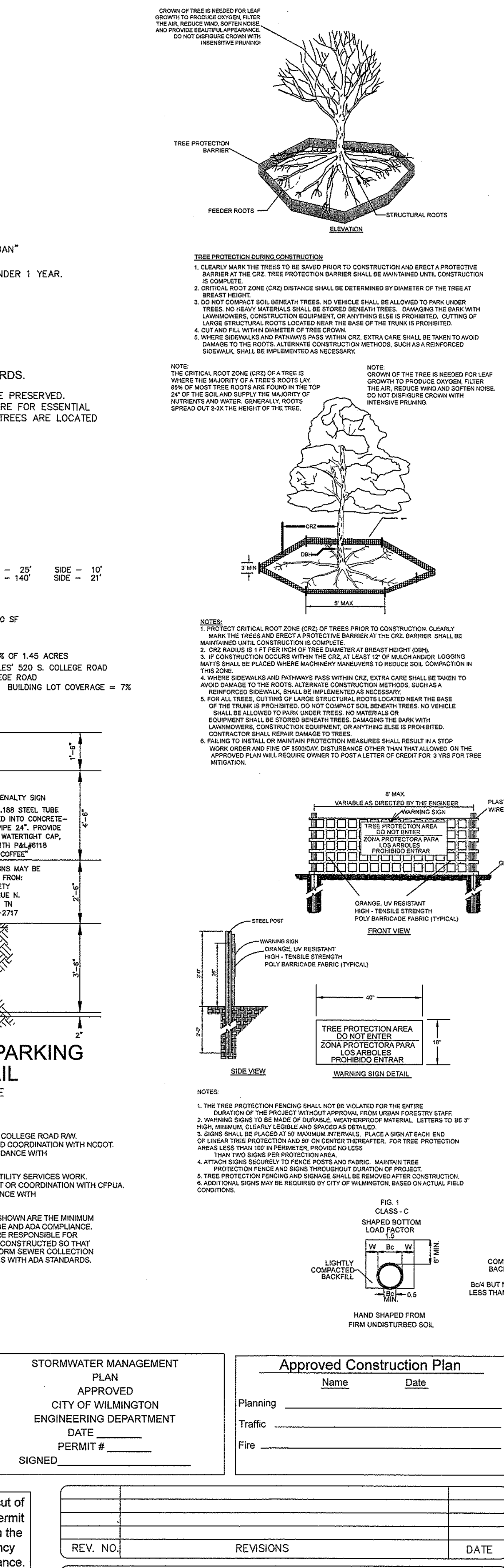
LOT COVERAGE:  
BUILDINGS & OVERHANGS ETC - 4,140 SF  
PARKING & DRIVES - 31,040 SF  
TOTAL IMPERVIOUS = 37,988 SF = 60% OF 1.45 ACRES  
FUTURE - 688 SF

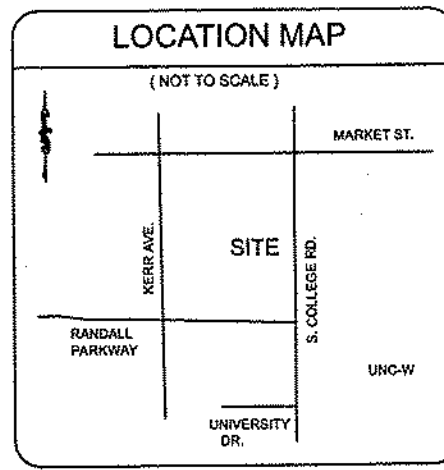
ONE BUILDING PROPOSED FOR BOJANGLES' 520 S. COLLEGE ROAD  
BUILDING OUTSIDE SIZE = 4,140 SF ; BUILDING LOT COVERAGE = 7%

**HANDICAPPED PARKING SIGN DETAIL**  
NOT TO SCALE

**ADDITIONAL NOTES:**  
NCDOT PERMIT REQUIRED FOR ANY WORK IN COLLEGE ROAD RW.  
CONTRACTOR RESPONSIBLE FOR PERMIT AND COORDINATION WITH NCDOT.  
ALL WORK IN RW TO BE INSTALLED IN ACCORDANCE WITH  
CITY AND NCDOT TECHNICAL STANDARDS.  
CPUSA COORDINATION REQUIRED FOR ANY UTILITY SERVICES WORK.  
CONTRACTOR RESPONSIBLE FOR ANY PERMIT OR COORDINATION WITH CPUSA.  
ALL SERVICES TO BE INSTALLED IN ACCORDANCE WITH  
CITY AND CPUSA TECHNICAL STANDARDS.

PROPOSED GRADES AND SPOT ELEVATIONS SHOWN ARE THE MINIMUM  
NECESSARY TO ENSURE ADEQUATE DRAINAGE AND ADA COMPLIANCE.  
CONTRACTOR AND STAKE-OUT SURVEYOR ARE RESPONSIBLE FOR  
ENSURING THAT ALL BUILT UPON AREAS ARE CONSTRUCTED SO THAT  
RUNOFF FROM THEM IS DIRECTED TO THE STORM SEWER COLLECTION  
SYSTEM INLETS AND THAT PROJECT COMPLIES WITH ADA STANDARDS.





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

Approved Construction Plan	
Name	Date
Planning	
Traffic	
Fire	

**STORMWATER MANAGEMENT PLAN**  
 APPROVED  
 CITY OF WILMINGTON  
 ENGINEERING DEPARTMENT  
 DATE \_\_\_\_\_  
 PERMIT # \_\_\_\_\_  
 SIGNED \_\_\_\_\_

**STABILIZATION TIME FRAMES:**

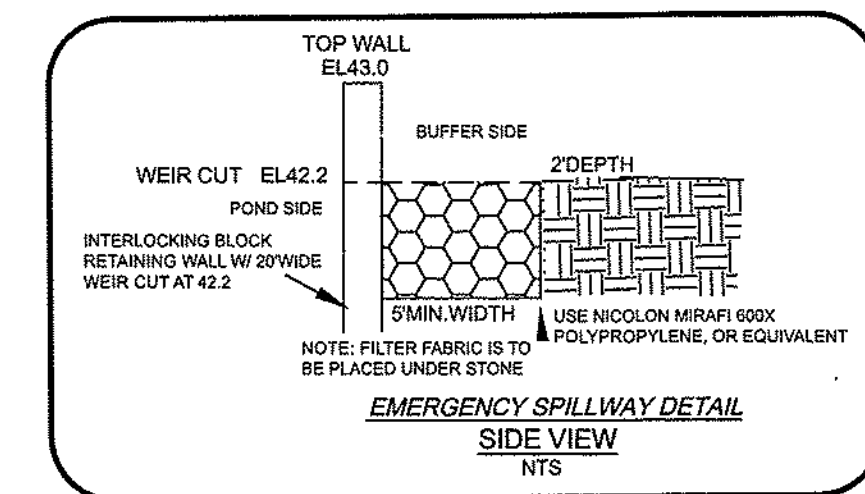
SITE AREA DESCRIPTION	STABILIZATION
Perimeter dikes, swales, ditches and slopes	7 DAYS
High Quality Water (HQW) Zones	7 DAYS
Slopes steeper than 3:1	7 DAYS
Slopes 3:1 or flatter	14 DAYS
All other areas with slopes flatter than 4:1	14 DAYS

**NOTE WELL:**  
 ANY AREAS ON-SITE WITHOUT ACTIVITY SHALL BE STABILIZED WITHIN 15 WORKING DAYS AND AS ABOVE. ALL SLOPES MUST BE STABILIZED WITHIN 21 CALENDAR DAYS OF CEASE OF ANY ACTIVITY.

DETAILS SHOWN ARE TYPICAL OF INSTALLATIONS REQUIRED BY CITY AND COUNTY. THIS SHEET DOES NOT PURPORT TO SHOW REQUIRED CONSTRUCTION DETAILS, BUT RATHER SERVES AS A GUIDE. THE CONTRACTOR IS RESPONSIBLE FOR ADHERING TO ALL CITY, COUNTY AND STATE CODES AND CONSTRUCTION STANDARDS.  
 No geotechnical testing has been performed on site. No warranty is made for suitability of subgrade, and undercut and any required replacement with suitable material shall be the responsibility of the contractor.

**PLANNED EROSION AND SEDIMENT CONTROL PRACTICES -**

- TEMPORARY GRAVEL CONSTRUCTION ENTRANCE**  
 Practice 6.05  
 Shall be installed at the entrances of the proposed project in and from College Road drives as shown. Drainage is away from the road and sedimentation will be controlled with downstream practices. During wet weather it may be necessary to wash truck tires at these locations.
- LAND GRADING**  
 Practice 6.02  
 Grading should be limited to areas as shown on the Plans. Cut and fill slopes shall be 3:1 or flatter except where specifically indicated. Care shall be taken during land grading activities not to damage existing trees that are not required to be removed.
- SEDIMENT FENCE**  
 Practice 6.52  
 Sediment fencing should be installed as shown on the Plan, first, to delineate and protect low areas, and around any temporary stockpile areas as necessary to prevent any graded interior areas from eroding onto adjacent lands or roadway, or into inlets.
- OUTLET STABILIZATION**  
 Practice 6.41  
 Riprap aprons will be located at the downstream end of all discharge pipes to prevent scour.
- SEDIMENT BASIN**  
 Practice 6.51  
 The Sediment Basin is to be constructed (see Construction Schedule) as the primary practice to prevent sediment from leaving the site. Detailed design and spillway configurations are specified in the details as shown on this Plan and the Narrative. The PVC outlet is to be blocked and weir blocked during the sedimentation phase until entire watershed is permanently stabilized and pond is converted to permanent stormwater management detention / retention function. The Contractor will then open the control orifices.
- INLET PROTECTION**  
 Practice 6.51  
 Storm sewer inlet barriers of hardware cloth and gravel inlet protection are to be constructed to help prevent sediment from entering the storm sewer system. After permanent stabilization of the entire controlled watershed area, the storm sewer system is to be flushed to remove accumulated sediment and ensure design flows.



LineID Flow Line Invert Line Gr Gr Dnstrm no. rate down slope down up line no. (cfs) (in) (ft) (%) (ft) (ft)

1	1 TO 25.9924	35.00	36.50	4.69	-----	41.50	End
2	2 TO 63.1018	37.00	37.30	4.00	47.41	50.41	40.1
3	3 TO 72.5218	37.40	37.70	0.45	41.40	40.40	70.2
4	4 TO 32.3118	37.00	37.30	0.30	50.41	50.41	50.1
5	5 TO 41.1618	37.30	37.80	0.48	41.50	42.10	4
6	4 TO 50.5818	37.80	38.00	0.57	42.10	42.10	5

**POND STORAGE AREAS**

ELEV AREA	Sq. Feet
43	6460.0
40	6460.0
39	5248.0
38.5	3388.0
38	1728.0
30	1728.0

**INLET DRAINAGE AREAS**

INLET AREA	acre
0.10	0.10
0.20	0.20
0.10	0.10
0.10	0.10
0.10	0.10
0.50	0.50

**BOJANGLES COLLEGE ROAD**  
 Wet detention/retention pond  
 Additional Calculation Summary for City of Wilmington:

**WATER QUALITY CONSIDERATIONS -**  
 Impervious area calculations: See Project Data Sheet  
 TOTAL IMPERVIOUS = 37,988 sf  
 TOTAL AREA DRAINING TO POND = 63,314 sf (1.45 acres)

SA REQUIRED:  $37,988 / 63,314 = 0.60$ , or 60%

At 4.5' average depth, 90% TSS removal, from chart - SA/DA factor = 4.8  
 $63,314 \times 0.01 \times 4.8 = 3,039$  sf SA REQUIRED  
 At Elev. = 38.5 = 3,398 sf SA PROVIDED

VOLUME REQUIRED:  $R = [(P)(Rv)/12](A)$   
 SEE PAGES A.1 AND A.2, "Controlling Urban Runoff: A Practical Manual for Planning and Designing Urban BMPs"  
 (P) = 1.5"  
 (Rv) = 0.9  
 (A) = 63,314 sf  
 $R = [0.05 + 0.9(37,988/63,314)] = 0.59$   
 = 4,669 of REQUIRED STORAGE  
 8,013 of PROVIDED STORAGE @ ELEV. = 40.0

**DRAWDOWN:**  
 Average head from storage elevation to orifice = 40.0 - 38.5 / 3 = 0.5'  
 1" drain (1" orifice in 6" PVC Cop) to draw-down pond:  
 Orifice equation:  $Q = CA(2gh)^{1/2}$   
 T = 5 days

**AQUATIC VEGETATION**  
 NOTE: REFERENCE IS MADE TO ADDITIONAL RECOMMENDATIONS FOR PLANTINGS IN THE INCENR BMP MANUAL, SECTIONS 9.4.1 AND 6.4.2 ESPECIALLY.

**SUITABLE SPECIES FOR PLANTING IN THIS ZONE ARE AS FOLLOWS:**  
 - SACITARIA LATIFOLIA (COMMON ARROWHEAD)  
 - SAGITTARIA LANCIFOLIA (DUCK POTATO)  
 - SAURURUS CERNUIUS (LIZARDTAIL)  
 - PELTANDRA VIRGINICA (ARROW ARUM)  
 IF ONE OR MORE OF THE SUGGESTED SPECIES IS UNAVAILABLE, APPROPRIATE WETLANDS VEGETATION COMMON TO THE COASTAL CAROLINA REGION MAY BE SUBSTITUTED.

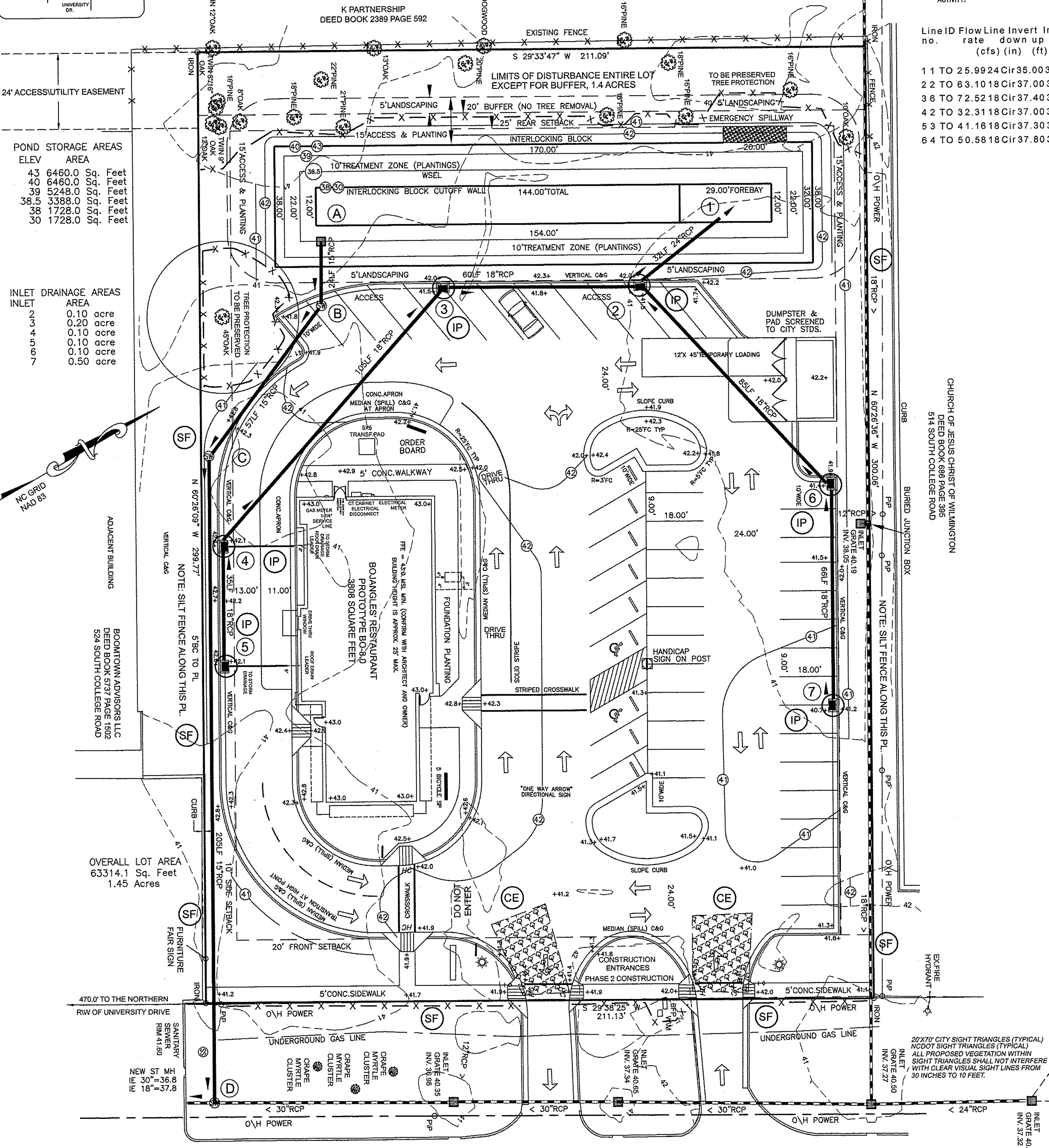
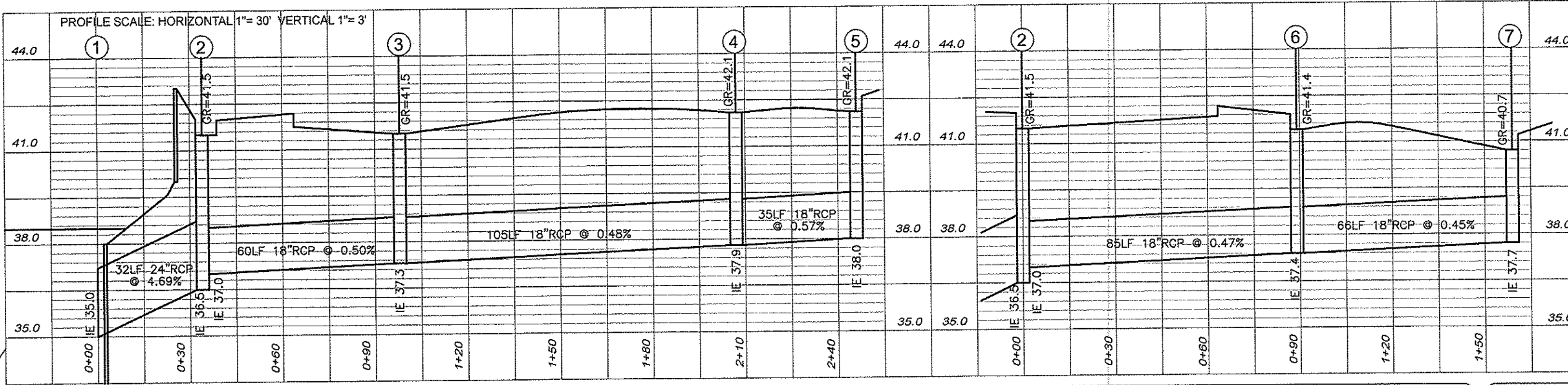
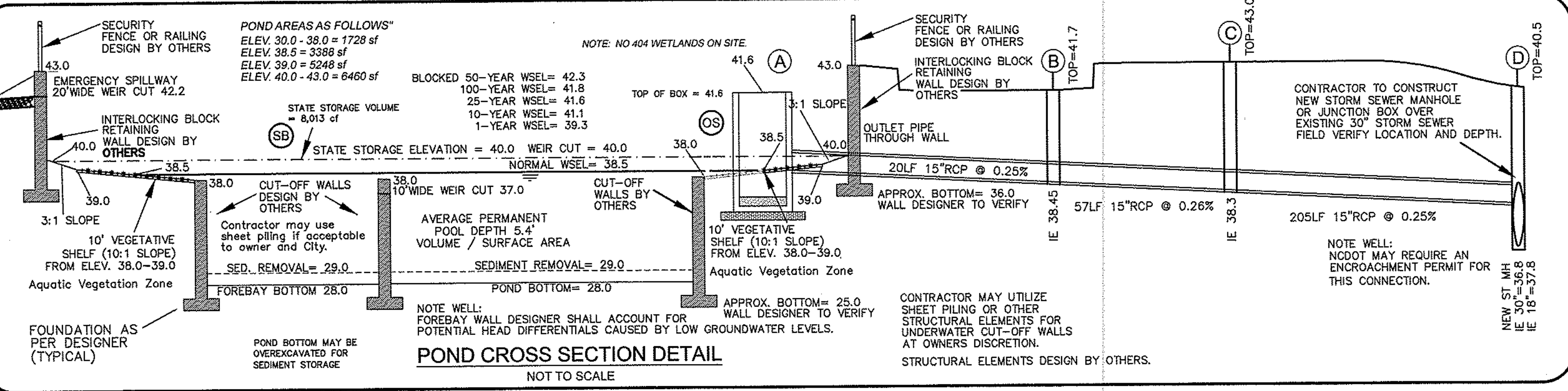
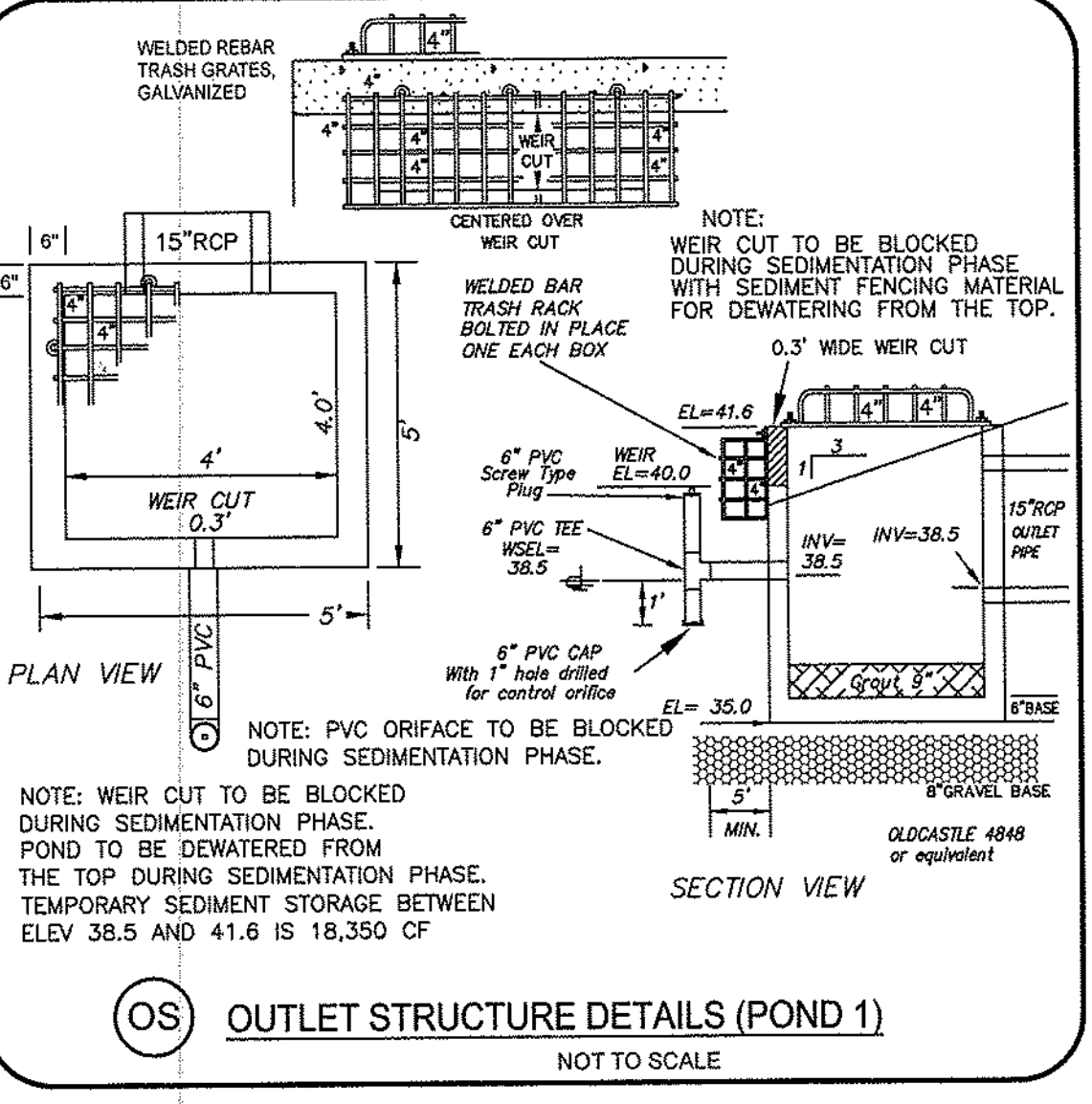
50 PLANTS PER 200 SF OR APPROX. 20 LF AT WATERLINE TO BE PLANTED; APPROXIMATELY 880 PLANTS FOR POND.

**PEAK DISCHARGE SUMMARY -**

Q(1) pre-developed	1.1 cfs
Q(10) pre-developed	1.2 cfs
Q(25) pre-developed	1.8 cfs
Q(1) post-developed	0.0 cfs @ WSEL = 39.3
Q(10) post-developed	1.0 cfs @ WSEL = 41.1
Q(25) post-developed	1.7 cfs @ WSEL = 41.6
Q(100) post-developed	5.4 cfs @ WSEL = 41.8
Q(500) post-BLOCKED	3.0 cfs @ WSEL = 42.3

**STATE WATER QUALITY POND CONSIDERATIONS -**  
 Surface Area required = 3,039 sf @ WSEL 38.5  
 Storage Volume required = 4,669 cf @ WSEL 40.0  
 Storage Volume provided = 8,013 cf @ WSEL 40.0  
 Storage Volume Drawdown Time = 5 days

**SEDIMENTATION POND CONSIDERATIONS -**  
 Storage required = 1.4 X 3600 = 5,040 cf  
 Storage provided = 18,000 cf



**EROSION CONTROL LEGEND (SEE NEXT SHEET FOR ADDITIONAL)**

CE	CONSTRUCTION ENTRANCE (TYPICAL)
SF	SILT FENCE (NEW) (TYPICAL)
IP	INLET PROTECTION (TYPICAL)
OP	OUTLET PROTECTION (TYPICAL)
SB	SEDIMENT BASIN

**NOTE WELL:**  
 1. All storm water runoff from built upon areas (i.e. impervious surfaces) to be directed to the storm sewer collection system (i.e. storm inlets or pond forebays) by swales, overland flow, additional grading, or landscaping inlets.

**BOJANGLES' South College Rd.**  
 LOCATED IN CITY OF WILMINGTON

SMITHVILLE TOWNSHIP  
 NEW HANOVER COUNTY, NORTH CAROLINA

DEVELOPER: BOJANGLES' RESTAURANTS INC.  
 9432 SOUTHERN PINE BLVD.  
 CHARLOTTE, NC 28273 phone: 704-940-5669

**HANOVER DESIGN SERVICES, P.A.**  
 LAND SURVEYORS, ENGINEERS & LAND PLANNERS  
 1123 FLORAL PARKWAY  
 WILMINGTON, N.C. 28403  
 PHONE: (910) 343-8002  
 LICENSE # C-0597

DATE: 3-12-15  
 SCALE: 1"=20'  
 DRAWN: DSH  
 CHECKED: DSH  
 PROJECT NO: 12354SHT3  
 SHEET NO: 3 OF 4

**PRELIMINARY PLAN**  
 NOT FOR RECORDATION OR CONVEYANCE

SCALE IN FEET: 1"=20'

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SB

Sediment Basin
Specifications # 6.61 - Construction Specifications
1. Site preparations-Clear, grub and strip topsoil from areas under the embankment to remove trees, vegetation, roots and other objectionable material.

OP

Outlet Stabilization Structure
Specification # 6.41 - Construction Specifications
1. Ensure that the subgrade for the filter and riprap follows the required lines and grades shown in the plan. Compact any fill required in the subgrade to the density of the surrounding undisturbed material.

IP

CONSTRUCTION SCHEDULE -
SEE PLAN THIS SHEET AND ALSO STAGING / DEMOLITION PLAN
1. Obtain approval of Plan and any necessary permits, and hold a pre-construction conference prior to commencing any work.

Table 6.11a - Seeding No. 4CP for:
Well-Drained Sandy Loams to Dry Sands, Coastal Plain, Low to Medium-Care Loams
Seeding Mixture
Species - Centropogon - Rate - 10-20 lb/acre (seed) or 30 lb/acre (topsoil)

Permanent Seeding
Specifications # 6.11 - Specifications
Seeded Requirements
Establishment of vegetation should not be attempted on sites that are unstable due to inappropriate soil texture (Table 6.11a), poor drainage, concentrated overland flow, or steep slopes unless other measures have been taken to correct these problems.

CE

Temporary Gravel Construction Entrance/Exit
Specification # 6.50 - Construction Specifications
1. Clear the entrance and exit area of all vegetation, roots and other objectionable material and improve grading.

NOTE WELL:
EROSION CONTROL DETAILS AND SPECIFICATIONS ARE AS PER THE "EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL" OF THE STATE OF NORTH CAROLINA, DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES, LATEST EDITION. PRACTICE NUMBERS REFER TO THIS MANUAL.

DESIGNER'S CERTIFICATION -
I hereby certify that this plan has been prepared in accordance with the latest North Carolina Standards on Specifications for Stormwater Management and Chapter 20 of the Code of Ordinances of the City of Wilmington.

MAINTENANCE PLAN -
1. All measures to be inspected weekly and after any rainfall event and needed repairs made immediately.

VEGETATION PLAN -

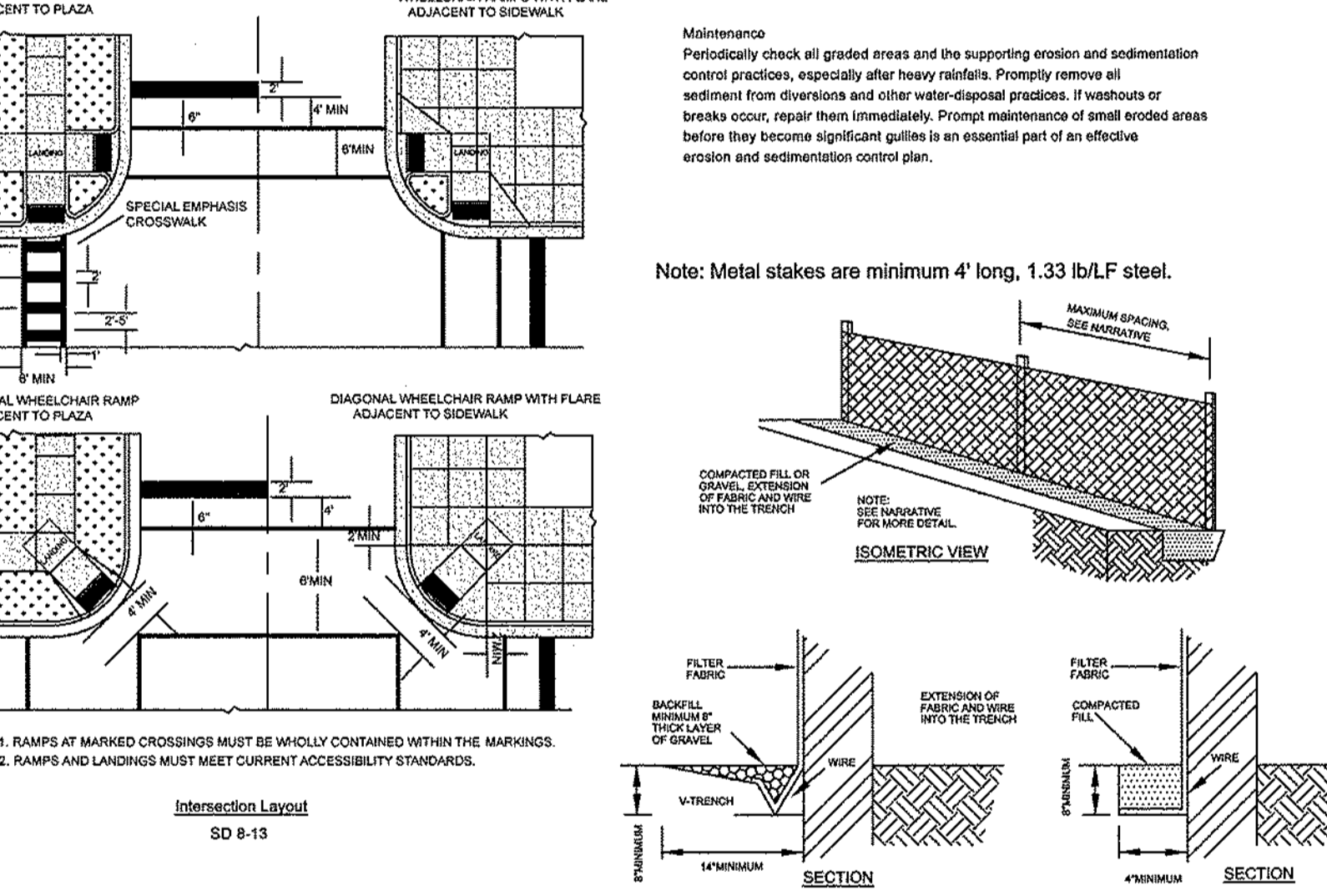
1. Permanent vegetation to be established in accordance with "North Carolina Erosion and Sediment Control Planning and Design Manual", Section 6.11, latest version. See next sheet.

Land Grading
Specification # 6.02 - Construction Specifications
1. Construct and maintain all erosion and sedimentation control practices and measures in accordance with the approved sedimentation control plan and construction schedule.

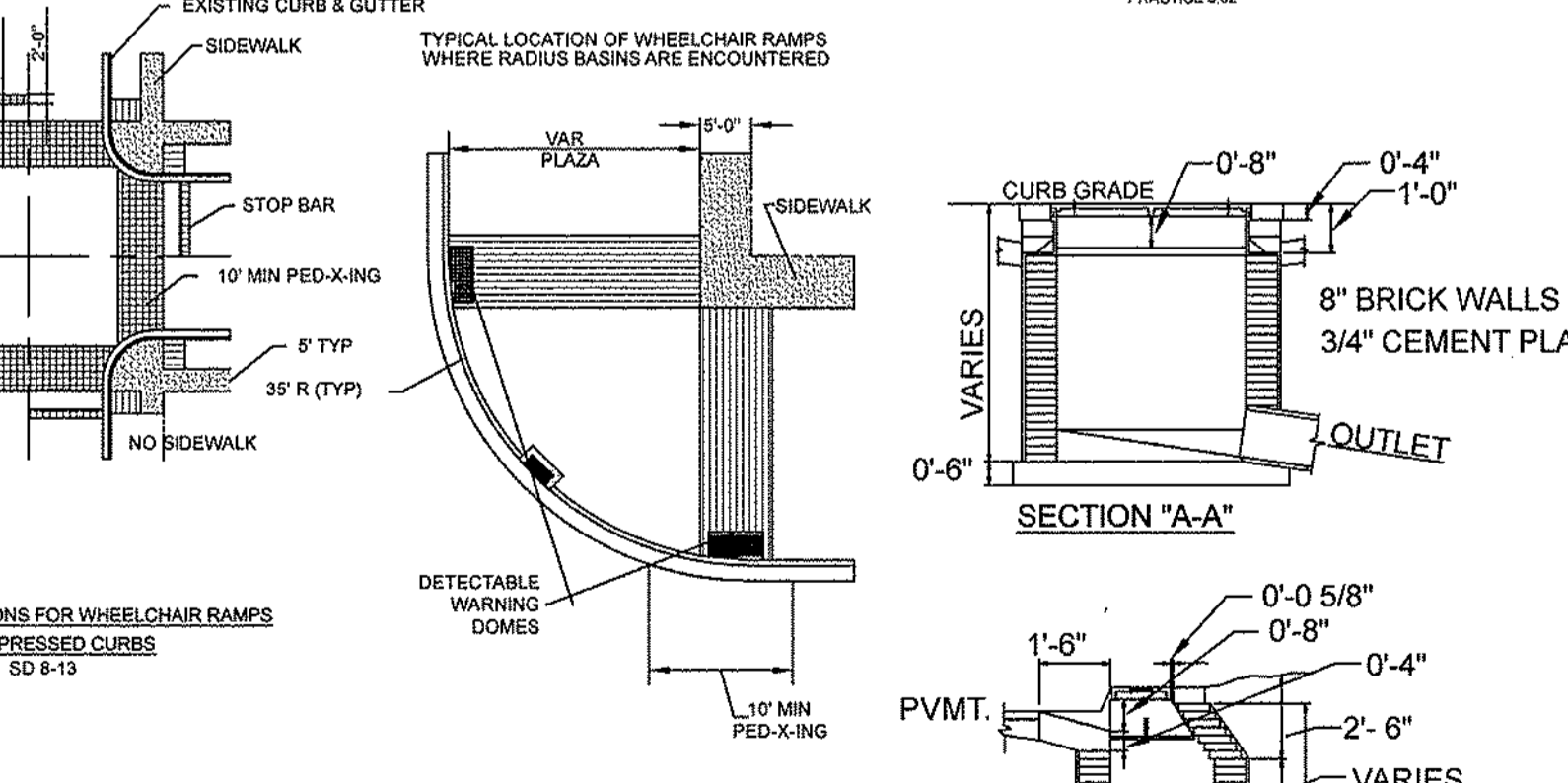
Table 6.11b - Seeding No. 7CP for: Grass-Seed Channels, Coastal Plain
Seeding Mixture
Species - Centropogon - Rate - 40-80 (1/2 bu/1000 ft)
Spreading dates - Coastal Plain, Apr - July

SF

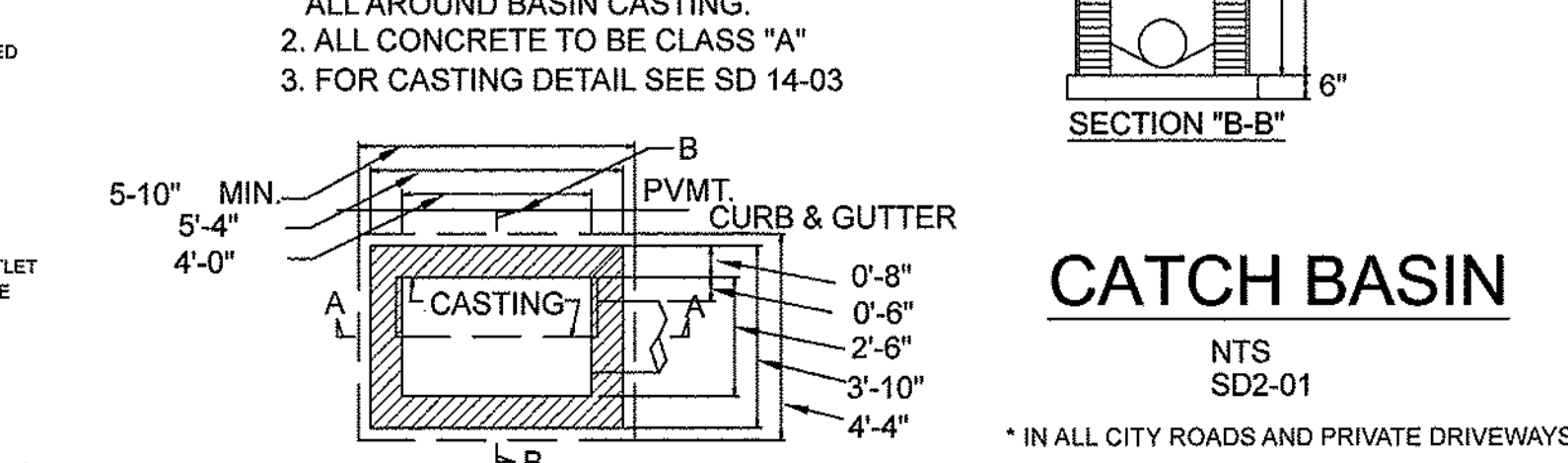
Sediment Fence (Silt Fence)
Specification # 6.52 - Construction Specifications
1. Like a synthetic fiber fabric or a previous sheet of polypropylene, nylon, polyester, or polyethylene yarn, which is certified by the manufacturer or supplier as conforming to the requirements shown in Table 6.52b.



SEDIMENT FENCE (SILT FENCE)
PRACTICE # 6.52



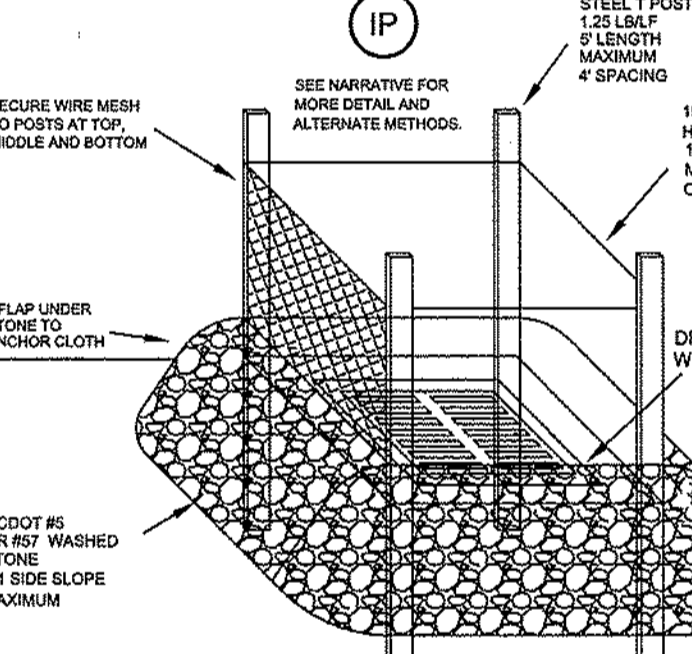
CATCH BASIN
NTS SD2-01



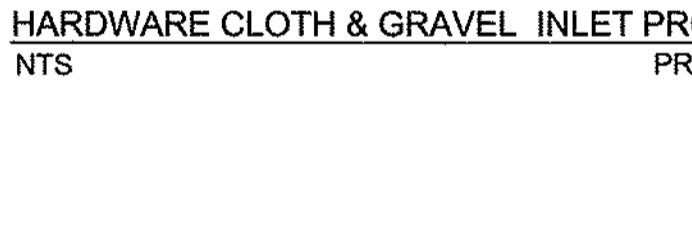
IN ALL CITY ROADS AND PRIVATE DRIVEWAYS

Table 6.11c - Seeding No. 8CP for: Well-Drained Sandy Loams to Dry Sands; Low to Medium-Care Loams
Seeding Mixture
Species Rate (lb/acre)
Centropogon 50
Panicum 30
Common Bermudagrass 30
German millet 10

HARDWARE CLOTH & GRAVEL INLET PROTECTION
PRACTICE 6.51



TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT DETAIL
NTS



APPROVED CONSTRUCTION PLAN

Form for Approved Construction Plan with fields for Name, Date, Planning, Traffic, and Fire.

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

STORMWATER MANAGEMENT PLAN

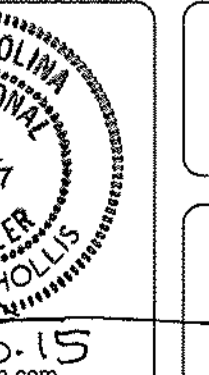
Form for Stormwater Management Plan with fields for Name, Date, and Signature.

BOJANGLES' South College Rd.
LOCATED IN CITY OF WILMINGTON

HARNETT TOWNSHIP
NEW HANOVER COUNTY, NORTH CAROLINA

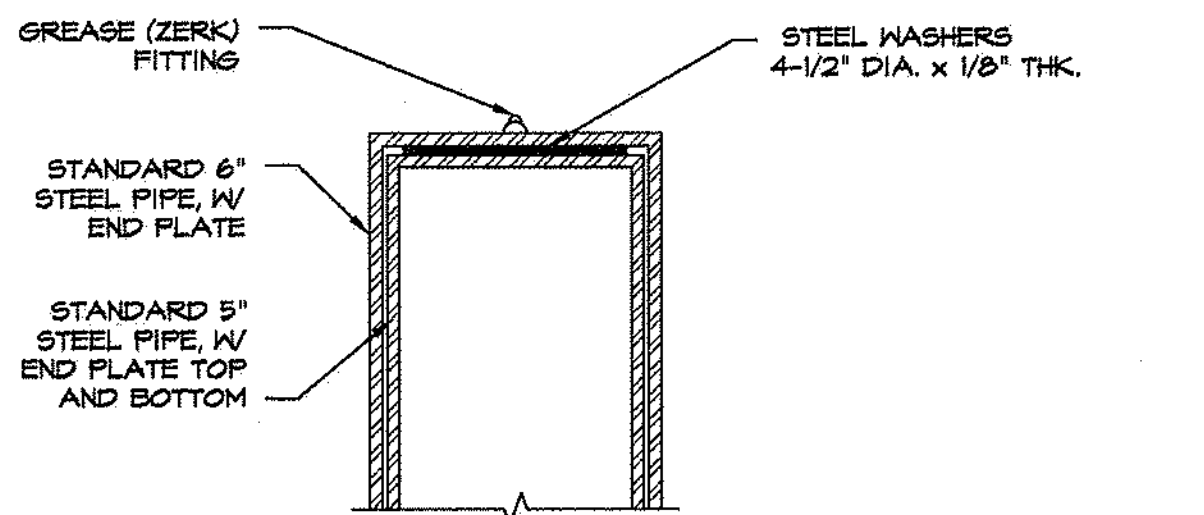
DEVELOPER: BOJANGLES' RESTAURANTS INC.
9432 SOUTHERN PINE BLVD.
CHARLOTTE, NC 28273 phone: 704-940-8669

HANOVER DESIGN SERVICES, P.A.
LAND SURVEYORS, ENGINEERS & LAND PLANNERS
1123 FLORAL PARKWAY
WILMINGTON, N.C. 28403
PHONE: (910) 343-8002
LICENSE # C-0997

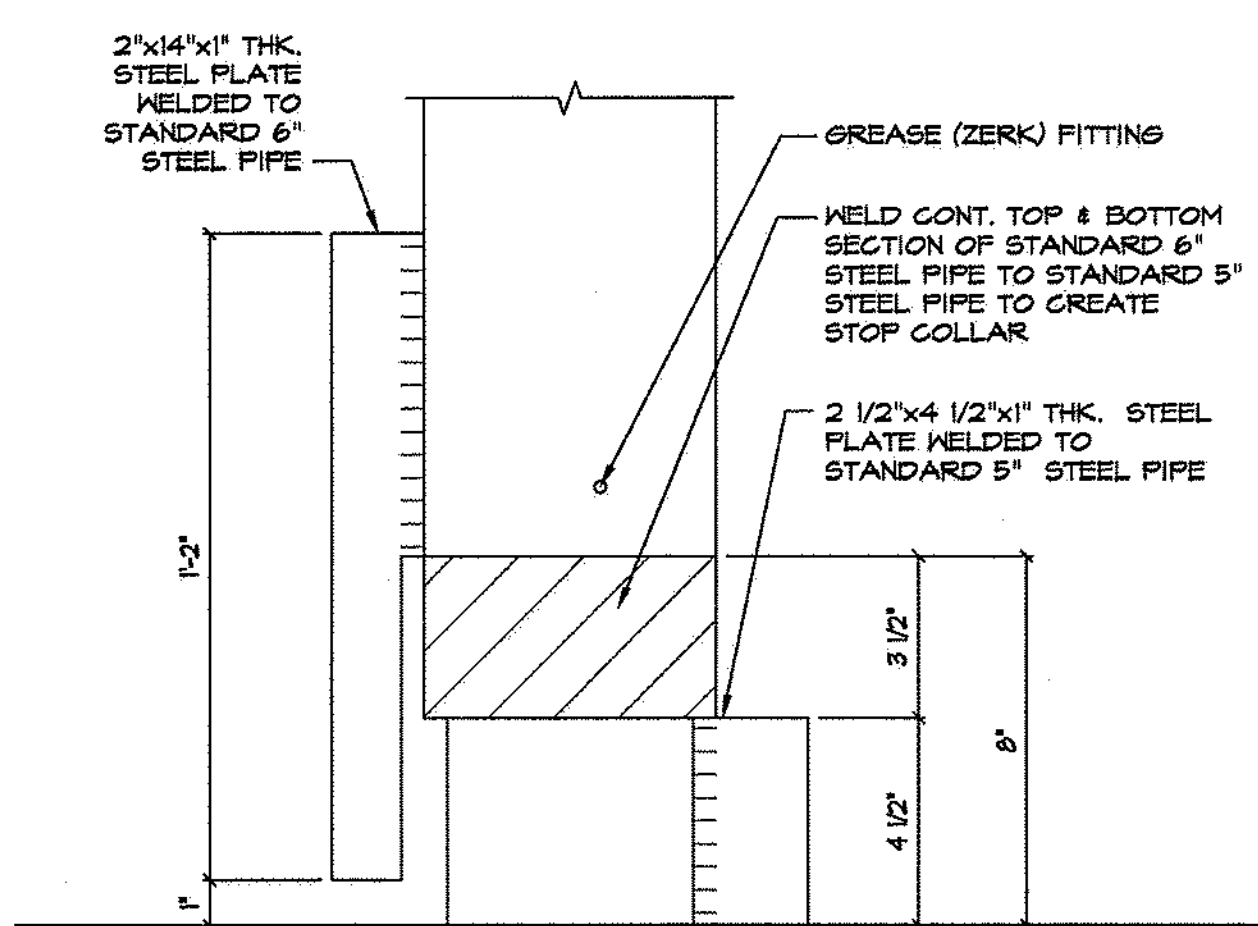


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Scale: 1"= 20'
Drawn: DSH
Checked: DSH
Project No: 12364-SHT4
Sheet No: 4

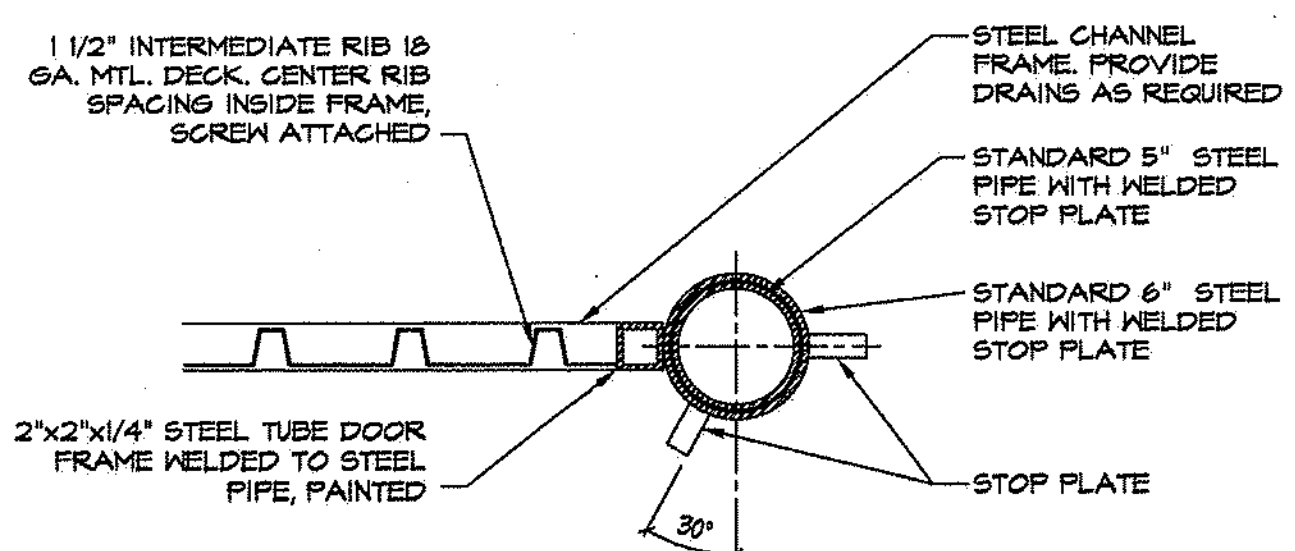
P:\CLIENT FILES\Bojangles\BO-8.0\CD's\AS01-1 SITE DETAILS.dwg, Plotted By: cgreen, Plotted: Oct 25, 2010 - 4:17pm



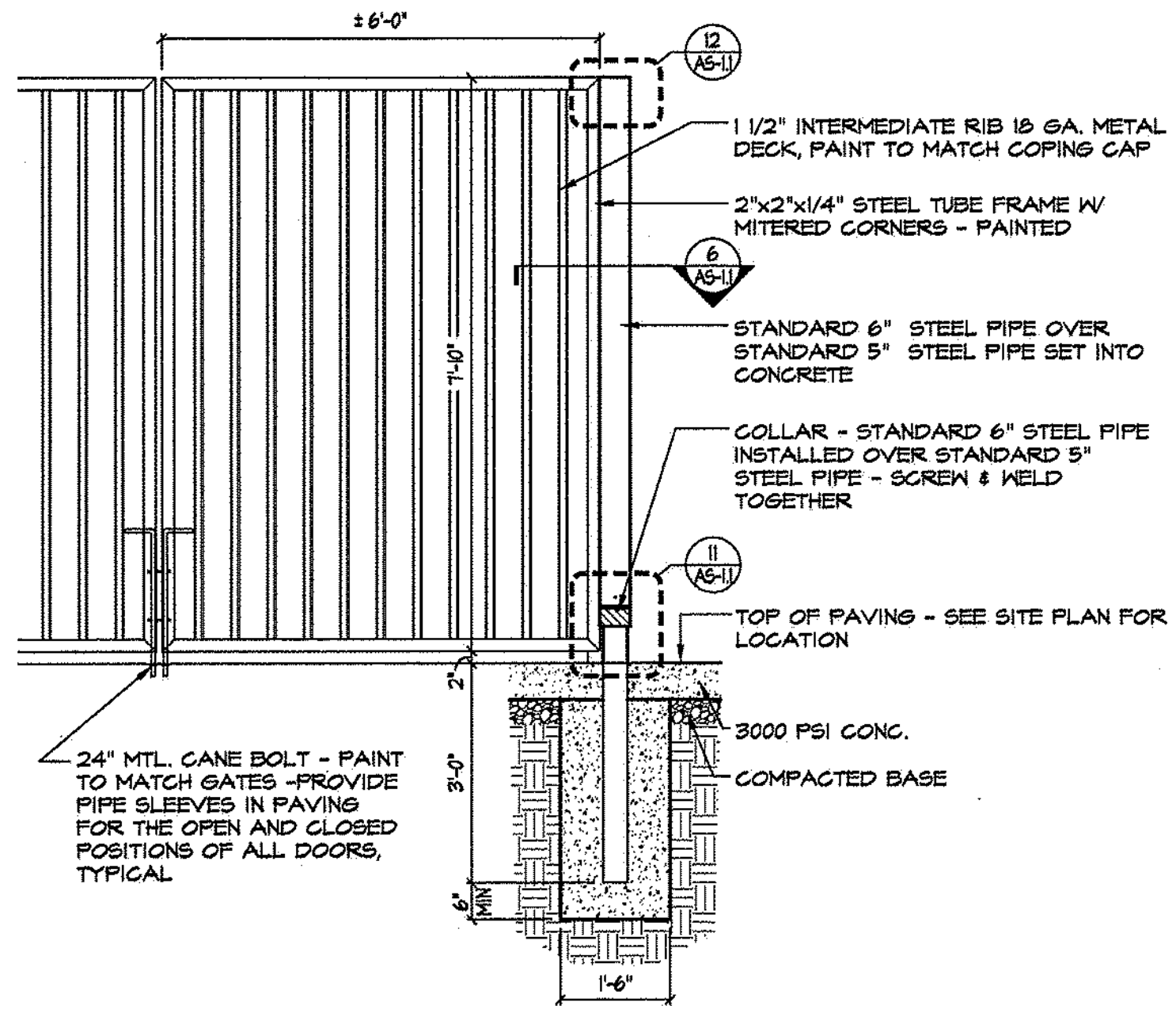
**12 GATE DETAIL**  
SCALE: 1 1/2"=1'-0"



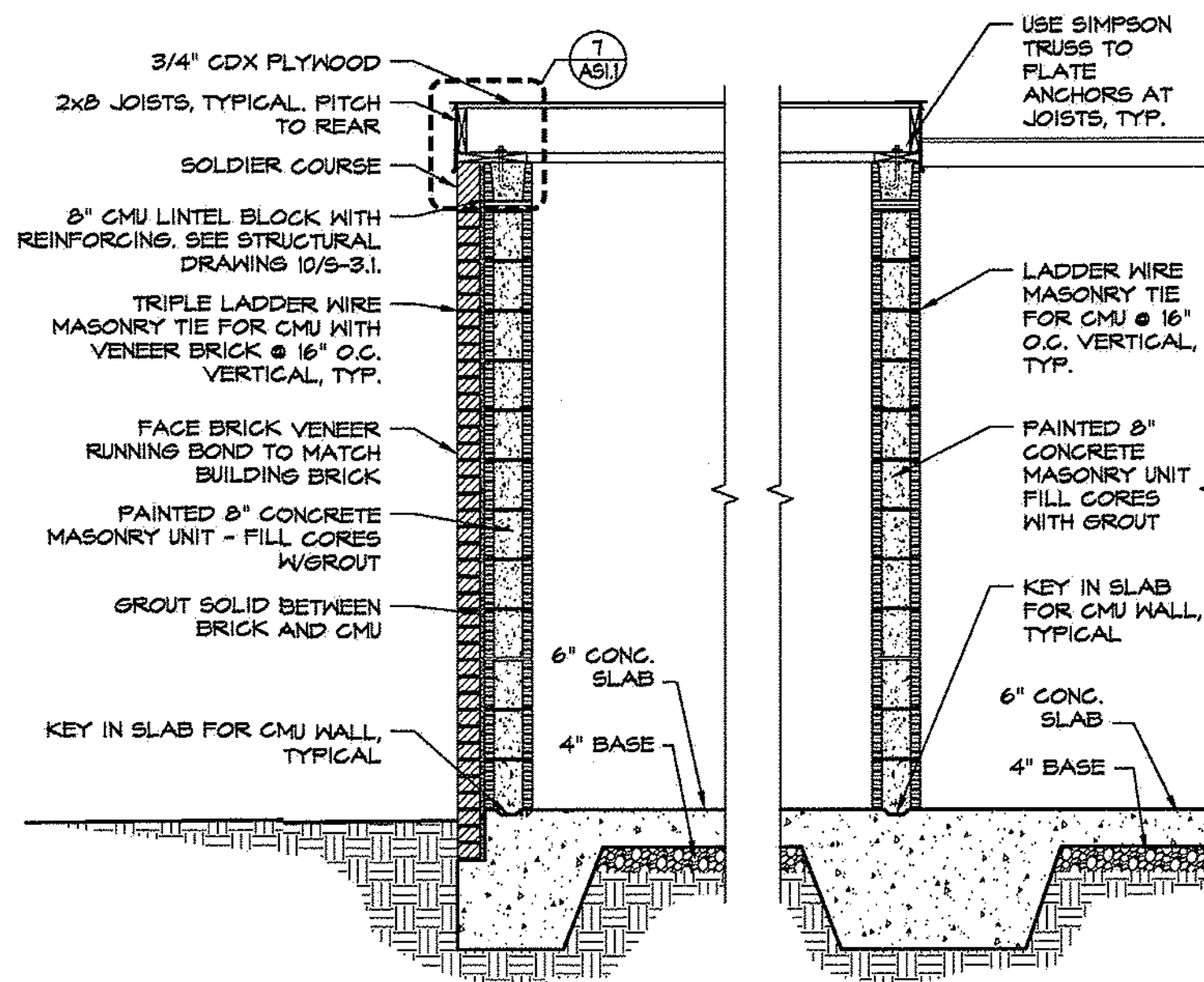
**11 GATE DETAIL**  
SCALE: 1 1/2"=1'-0"



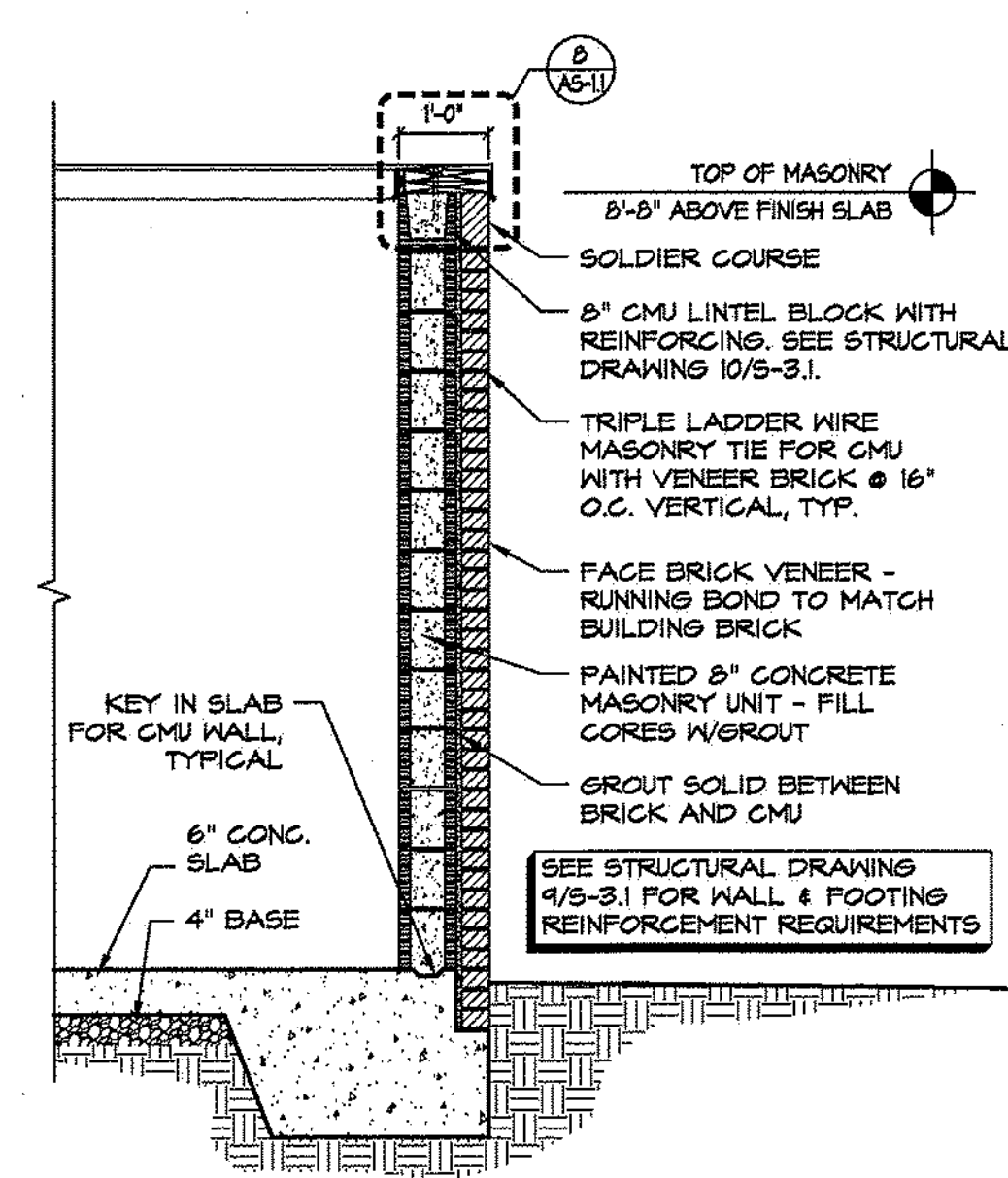
**6 GATE DETAIL**  
SCALE: 1 1/2"=1'-0"



**3 GATE ELEVATION DETAIL**  
SCALE: 1/2"=1'-0"



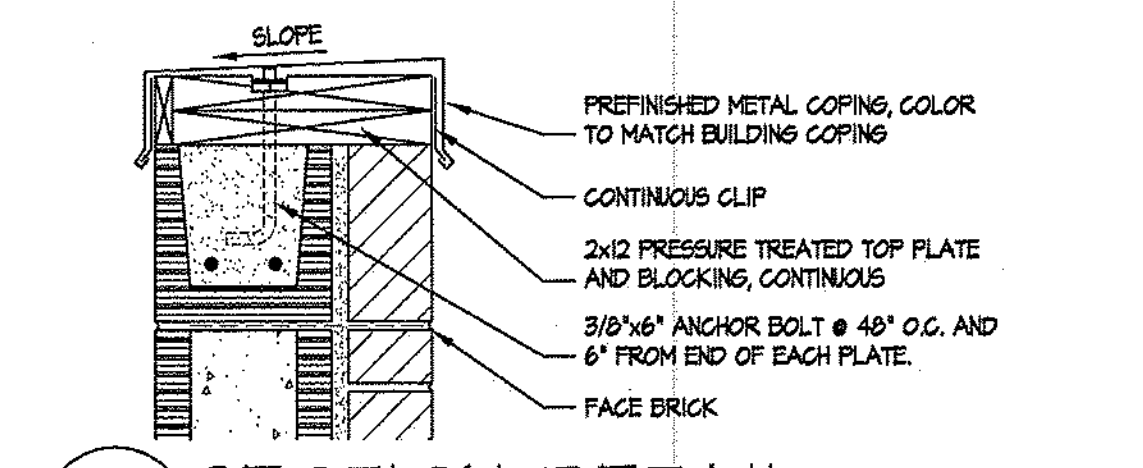
**10 WASTE ENCLOSURE SECTION**  
SCALE: 1/2"=1'-0"



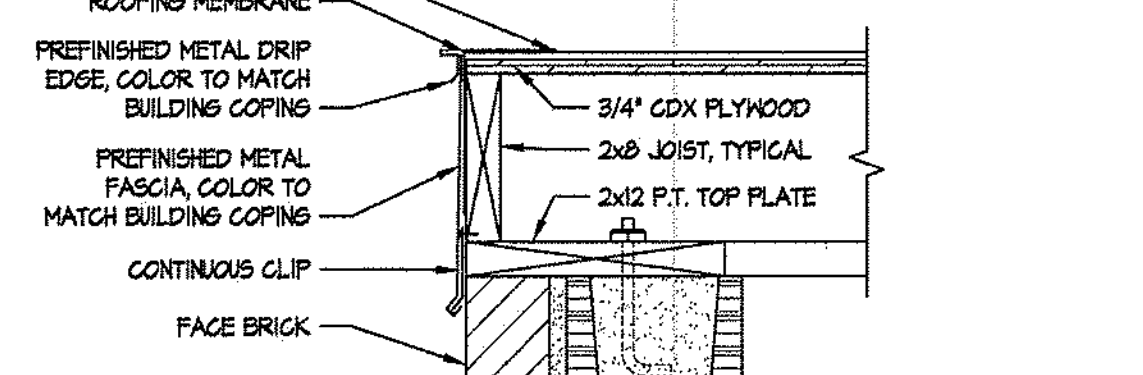
**9 WASTE ENCLOSURE WALL SECTION**  
SCALE: 1/2"=1'-0"

THE ARCHITECT/ENGINEER DOES NOT DEFINE THE SCOPE OF INDIVIDUAL TRADES, SUBCONTRACTORS, MATERIAL SUPPLIERS, OR VENDORS. ANY SHEET NUMBERING SYSTEM USED WHICH IDENTIFIES DISCIPLINES IS SOLELY TO SEPARATE ARCHITECTS AND ENGINEERS' SCOPE; IT DOES NOT DEFINE A SUBCONTRACTOR'S SCOPE OF WORK. NO CONSIDERATION WILL BE GIVEN TO REQUESTS FOR CHANGE ORDERS FOR FAILURE TO OBTAIN AND REVIEW THE COMPLETE SET OF DRAWINGS AND SPECIFICATIONS.

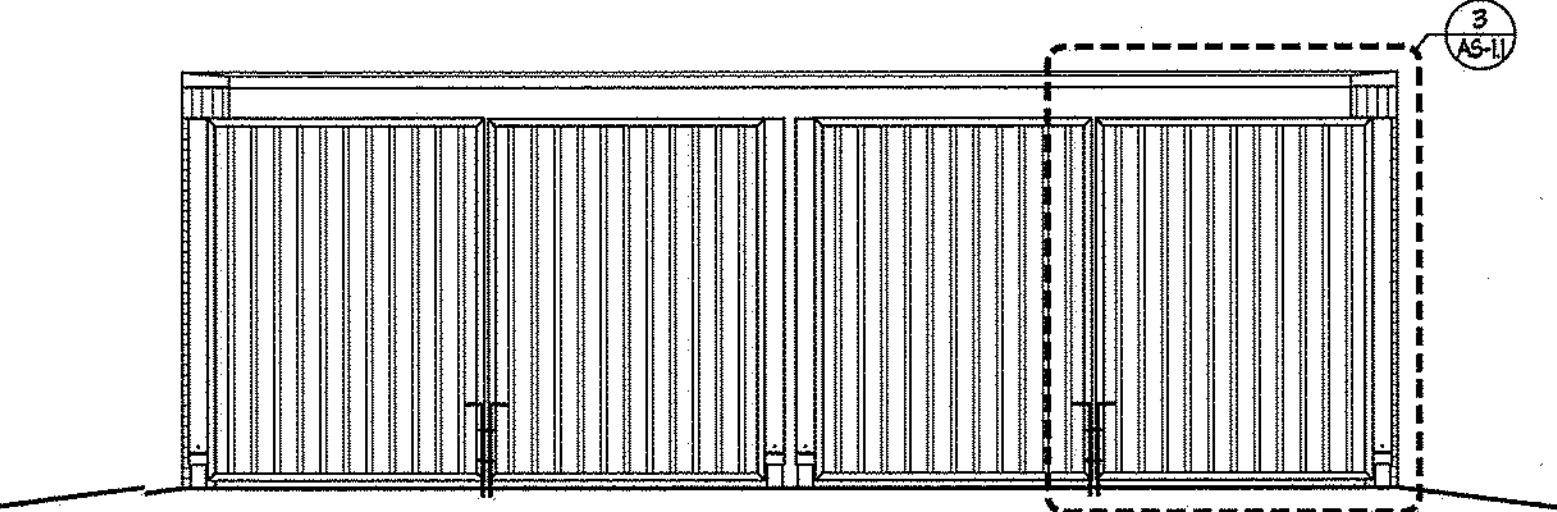
- PLAN NOTES:**
1. ALL STEEL TO BE WELDED AND GROUND SMOOTH.
  2. GATES AND ALL STEEL COMPONENTS ARE TO BE PRIMED AND PAINTED TO MATCH BRONZE COLORED MASONRY COPING CAP
  3. STANDARD SIZE 6" STEEL PIPE IS 6.325" O.D. THICKNESS OF 0.28"
  4. STANDARD SIZE 5" STEEL PIPE IS 5.563" O.D. THICKNESS OF 0.258"



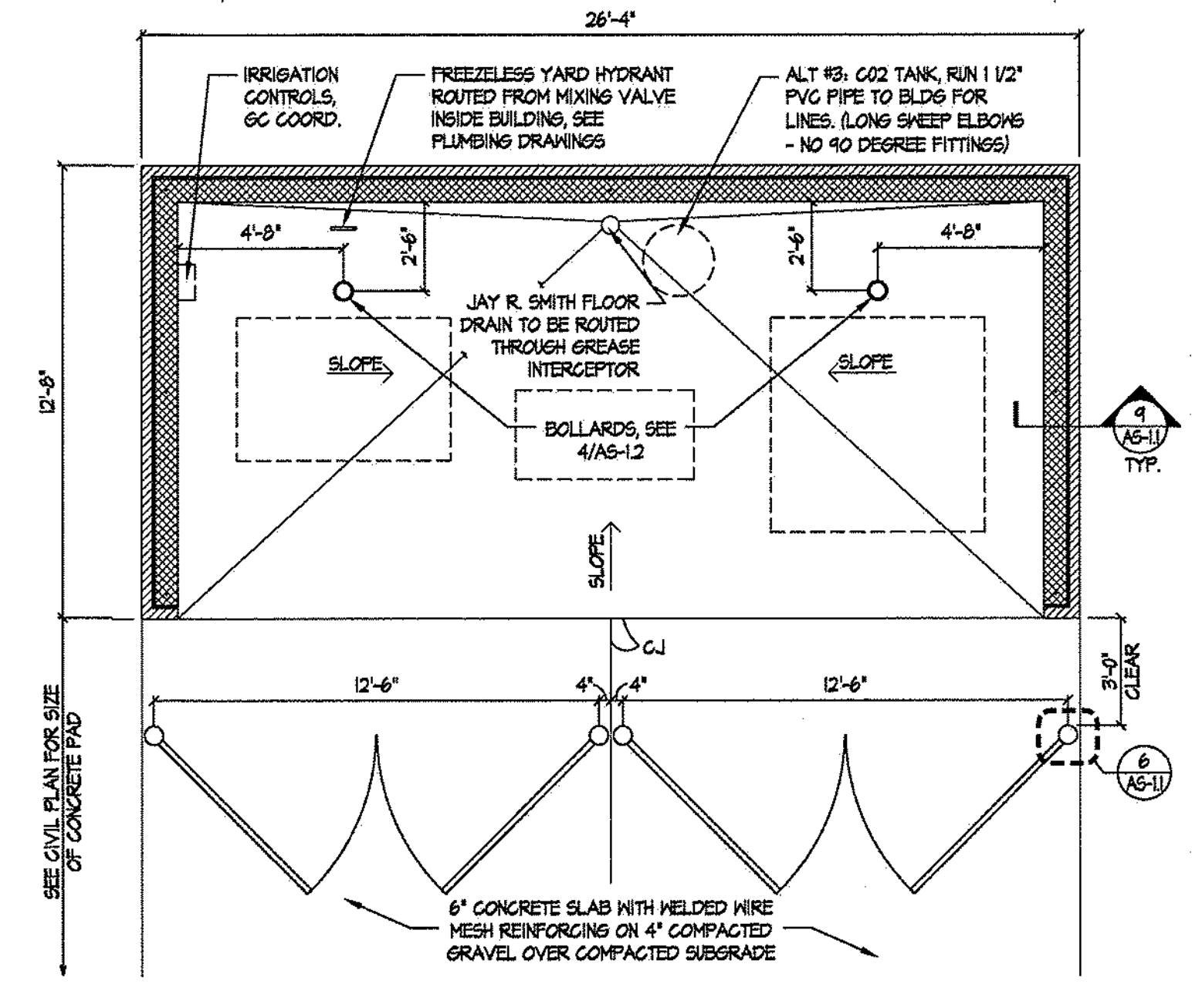
**8 SECTION DETAIL**  
SCALE: 1 1/2"=1'-0"



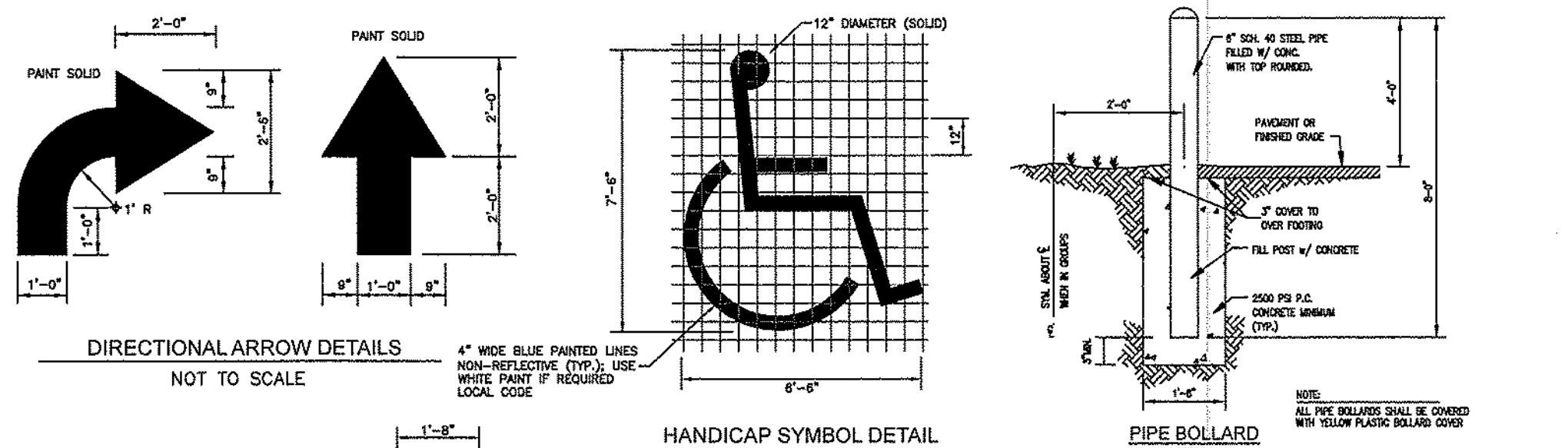
**7 SECTION DETAIL**  
SCALE: 1 1/2"=1'-0"



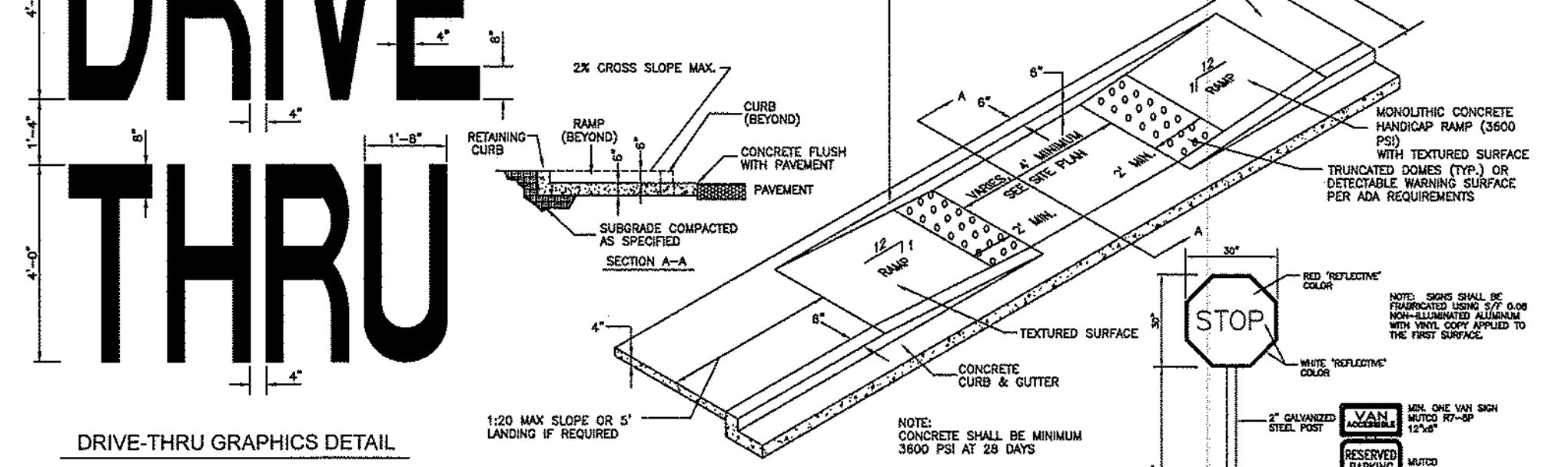
**5 ALTERNATE #2 WASTE ENCLOSURE ELEVATION**  
SCALE: 1/4"=1'-0"



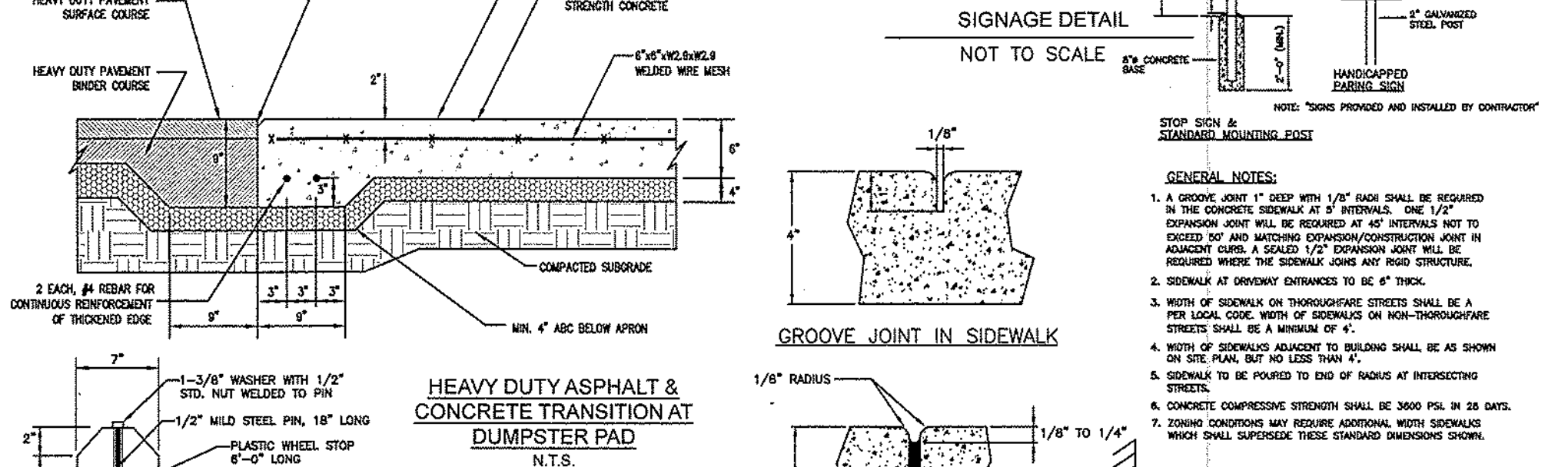
**2 ALTERNATE #2 WASTE ENCLOSURE PLAN**  
SCALE: 1/4"=1'-0"



**DRIVE THRU**



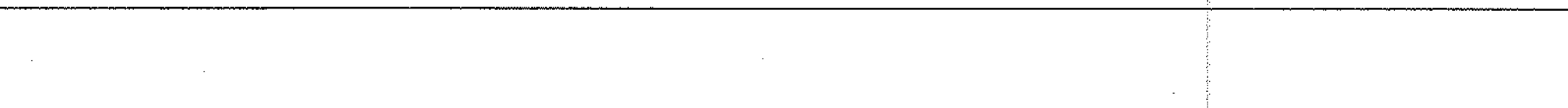
**DRIVE-THRU GRAPHICS DETAIL**  
NOT TO SCALE



**SIDEWALK HANDICAP RAMP DETAIL**  
NOT TO SCALE



**SIGNAGE DETAIL**  
NOT TO SCALE



**GROOVE JOINT IN SIDEWALK**  
NOT TO SCALE

**FINAL DESIGN**  
NOT RELEASED  
FOR CONSTRUCTION



**BOJANGLES' RESTAURANTS, INC.**  
**PROTOTYPE PLAN 8**

ISSUE DATE: 10-20-10  
 REVISION 1: 5-08-14  
 REVISION 2: \_\_\_\_\_  
 REVISION 3: \_\_\_\_\_  
 REVISION 4: \_\_\_\_\_  
 PROJECT #: \_\_\_\_\_  
 CONTENT: SITE DETAILS  
 PROJECT ARCHITECT: ECE  
 DRAWN BY: CEG  
 CADD FILE NAME: P:\10-000CD\AS01-1 SITE DETAILS  
 SHEET  
**AS-1.1**  
 SHEET 1 of 1



520 SOUTH COLLEGE ROAD

CITY OF WILMINGTON  
NEW HANOVER COUNTY  
NORTH CAROLINA

OWNER: CAJUN PROPERTIES, INC

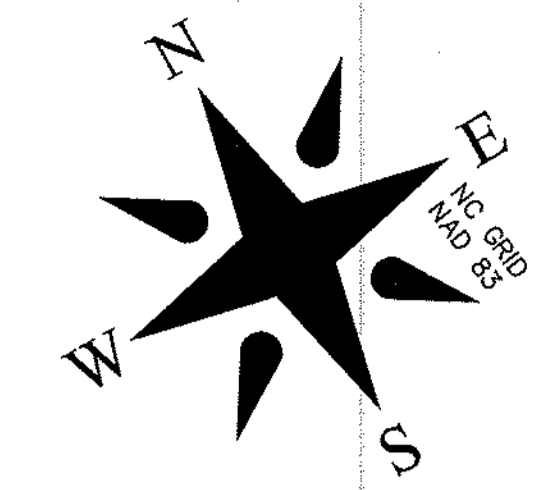
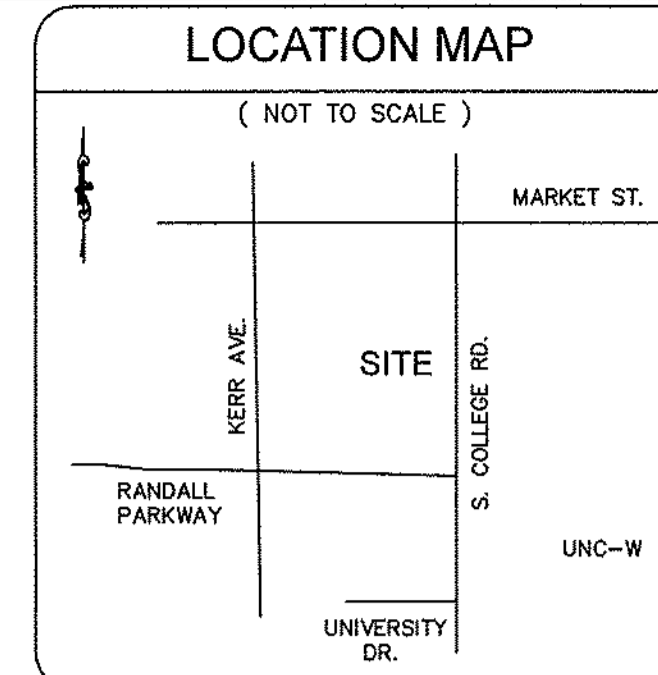
DATE: DEC. 23, 2014  
REVISED FEB. 26, 2015

PROPERTY DESCRIPTION

A CERTAIN TRACT OR PARCEL OF LAND LYING AND BEING IN THE CITY OF WILMINGTON, NEW HANOVER COUNTY, NORTH CAROLINA AND BEING THAT TRACT AS DESCRIBED IN DEED BOOK 1991 PAGE 087, RECORDS OF NEW HANOVER COUNTY AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT AN IRON ON THE WESTERN RIGHT OF WAY OF SOUTH COLLEGE ROAD (200' PUBLIC RIGHT OF WAY), SAID IRON BEING LOCATED N 29-38-25 W 470.00' FROM THE INTERSECTION OF THE WESTERN RIGHT OF WAY OF SOUTH COLLEGE ROAD AND THE NORTHERN RIGHT OF WAY OF UNIVERSITY DRIVE; PROCEED FROM SAID POINT OF BEGINNING AND LEAVING SAID WESTERN RIGHT OF WAY N 60-26-09 W 299.77' TO AN IRON, THENCE N 29-33-47 E 211.09 FT. TO AN IRON, THENCE S 60-26-36 E 300.06' TO AN IRON ON SAID WESTERN RIGHT OF WAY, THENCE WITH SAID RIGHT OF WAY S 29-38-25 W 211.13' TO THE POINT OF BEGINNING AND CONTAINING 1.45 ACRES ACCORDING TO A SURVEY BY HANOVER DESIGN SERVICES, P.A. IN DECEMBER OF 2014.

*[Signature]*  
JONATHAN L. WAYNE  
PROFESSIONAL LAND SURVEYOR PLS 3391  
03-12-15  
DATE



CHICAGO TITLE INSURANCE COMPANY ALTA COMMITMENT No. 14-22697CH  
EXCEPTIONS FROM SCHEDULE B - SECTION II

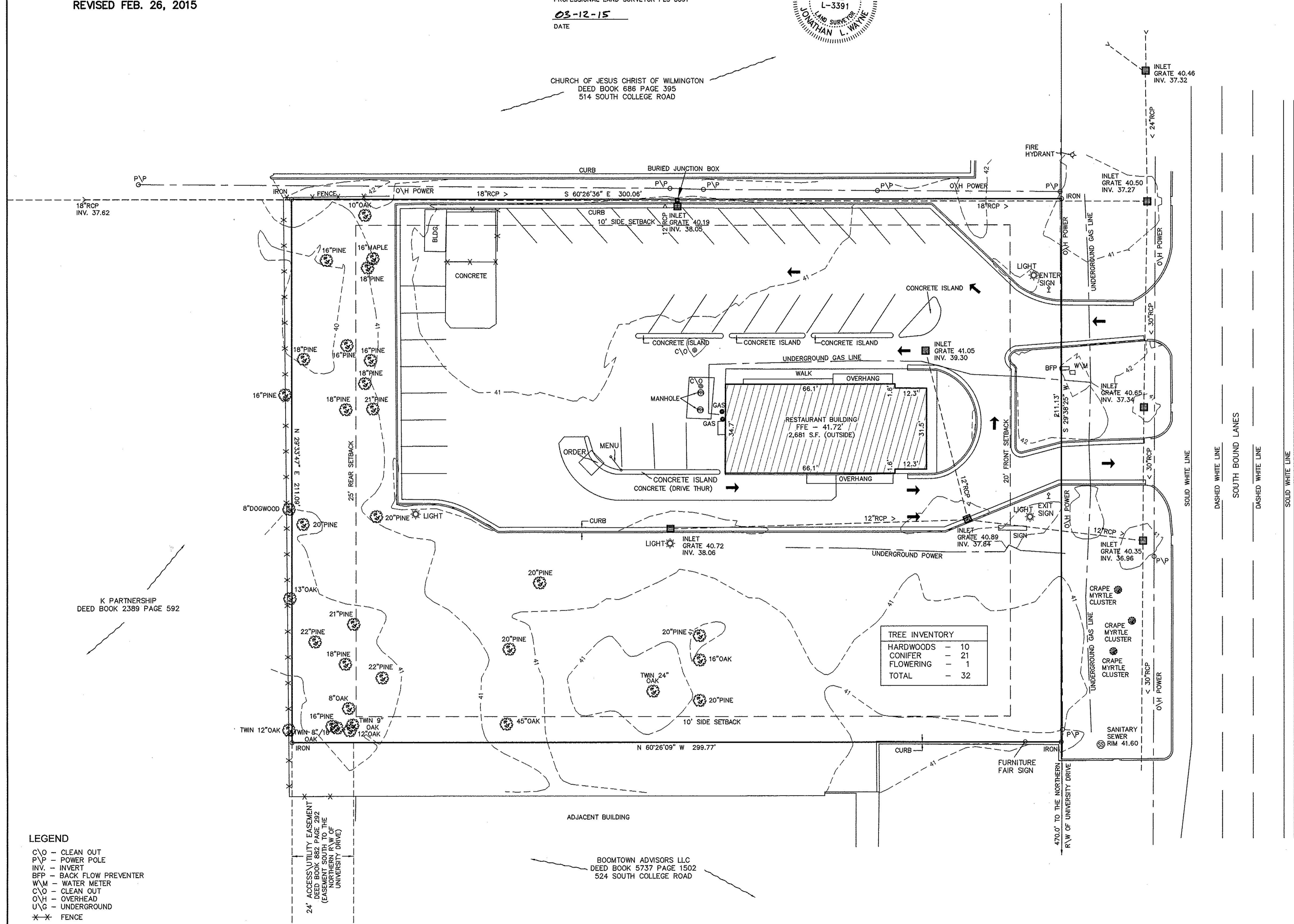
EXCEPTION No.	COMMENTS
1	EXCEPTION NOT A MATTER OF SURVEY
2	EXCEPTION NOT A MATTER OF SURVEY
3	NO DISCREPANCY FOUND
4	AREA SHOWN
5	BLANKET UTILITY EASEMENT FOR CONSTRUCTION AND MAINTENANCE OF ELECTRICAL EQUIPMENT
6	EASEMENT ON ADJACENT TRACTS, SHOWN ON SURVEY
7	LEASE, NOT A MATTER OF SURVEY

ADDITIONAL NOTES  
THIS PROPERTY IS LOCATED IN FLOOD ZONE X ACCORDING TO FIRM MAP 37203137J, EFFECTIVE DATE APRIL 3, 2006  
NO OBSERVED EVIDENCE OF RECENT EARTH MOVING ACTIVITY  
NO OBSERVED EVIDENCE OF A SOLID WASTE DUMP  
BASED ON RECENT SURVEY AND OBSERVED EVIDENCE NO WETLANDS

SITE DATA  
TAX PARCEL No. R05507-002-069-000  
TRACT AREA - 63,300 S.F. 1.45 ACRES  
ZONED - O&I (OFFICE & INSTITUTIONAL)  
SETBACKS FRONT - 20'  
REAR - 25' (RESIDENTIAL)  
SIDE - 10'  
LOT COVERAGE 40%  
30 PARKING SPACES (EXISTING)

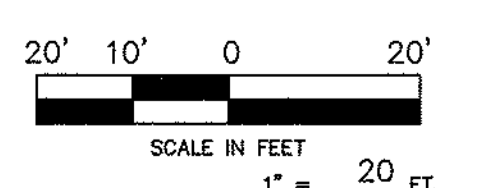
- NOTES
1. AREA COMPUTED BY COORDINATE METHOD
  2. ALL DISTANCES ARE HORIZONTAL
  3. THIS SURVEY IS NOT FOR RECORDATION, IT DOES NOT MEET ALL REQUIREMENTS OF G.S. 47-30.
  4. THE UNDERGROUND UTILITIES SHOWN ON THIS SURVEY ARE LOCATED FROM FIELD SURVEY INFORMATION, AND EXISTING ASBUILT DRAWINGS. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH THE SURVEYOR DOES CERTIFY THAT THE UTILITIES ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.
  5. FOR REFERENCE SEE DEED BOOK 1991 PAGE 087
  6. THIS TRACT IS NOT LOCATED IN A SPECIAL FLOOD HAZARD AREA
  7. VERTICAL DATUM NAVD 88
  8. 1.45 ACRES TOTAL AREA

SOUTH COLLEGE ROAD



SURVEYOR'S CERTIFICATE  
THE UNDERSIGNED HEREBY CERTIFIES, AS OF DEC. 23, 2014, TO CAJUN PROPERTIES, INC. CHICAGO TITLE INSURANCE COMPANY, BOJANGLES RESTAURANTS, INC. AND HIS SUCCESSORS AND/OR ASSIGNS. THAT HE IS A DULY LICENSED LAND SURVEYOR OF THE STATE OF NORTH CAROLINA; THAT THIS PLAT OF SURVEY IS MADE AT LEAST IN ACCORDANCE WITH THE MINIMUM STANDARDS ESTABLISHED BY SAID STATE FOR SURVEYS AND LAND SURVEYORS AND WITH THE 2011 MINIMUM DETAIL REQUIREMENTS FOR LAND TITLE SURVEYS AS ADOPTED BY THE AMERICAN LAND TITLE ASSOCIATION AND AMERICAN CONGRESS ON SURVEYING AND MAPPING; AND INCLUDES ITEMS OF TABLE A, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 16, 17, 18, 19, 20 THEREOF. THE FIELD WORK WAS COMPLETED ON 12/10/14. THAT THE SURVEY CORRECTLY SHOWS THE LOCATION OF ALL BUILDINGS, STRUCTURES AND OTHER IMPROVEMENTS SITUATED ON THE SUBJECT PREMISES; AND THAT, EXCEPT AS SHOWN, THERE ARE NO VISIBLE EASEMENTS OR RIGHT OF WAY ACROSS SAID PREMISES OR ANY OTHER EASEMENTS OR RIGHTS OF WAY OF WHICH THE UNDERSIGNED HAS BEEN ADVISED, NO PARTY WALLS, NO ENCROACHMENTS ONTO ADJOINING PREMISES, STREETS OR ALLEYS BY ANY OF SAID BUILDINGS, STRUCTURES OR OTHER IMPROVEMENTS UNLESS SHOWN ON SURVEY, AND NO ENCROACHMENTS ONTO SAID PREMISES BY BUILDINGS, STRUCTURES OR OTHER IMPROVEMENTS SITUATED ON ADJOINING PREMISE UNLESS SHOWN ON SURVEY.

*[Signature]*  
JONATHAN L. WAYNE  
PROFESSIONAL LAND SURVEYOR PLS 3391  
03-12-15  
DATE



**HANOVER DESIGN SERVICES, P.A.**  
LAND SURVEYORS ENGINEERS LAND PLANNERS  
1123 FLORAL PARKWAY  
WILMINGTON, N.C. 28403  
PHONE: (910) 343-8002  
FAX: (910) 343-9941  
FIRM CERT. C-0597



520 SOUTH COLLEGE ROAD

CITY OF WILMINGTON  
NEW HANOVER COUNTY  
NORTH CAROLINA

OWNER: CAJUN PROPERTIES, INC

DATE: MARCH 12, 2015

TREE INVENTORY	
HARDWOODS	21
CONIFER	1
FLOWERING	1
TOTAL	32

TREE REMOVALS	
HARDWOODS	3
CONIFER	10
FLOWERING	0
TOTAL	13

18" PINE  
INDICATES TREE TO BE REMOVED

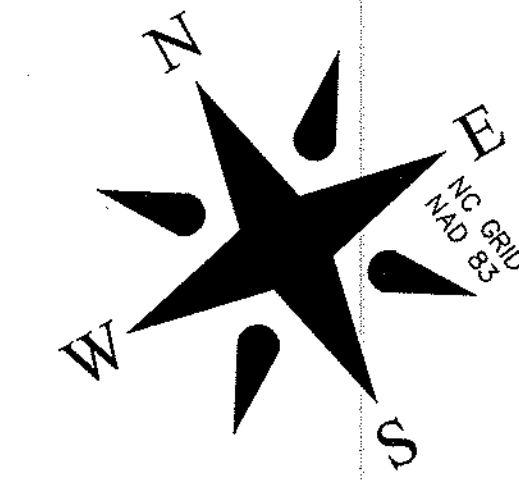
CONSTRUCTION SCHEDULE -

- Obtain approval of Plan and any necessary permits, and hold a pre-construction conference prior to commencing any work.
- Flag work limits and stake-out Phase 1 primary measures, and flag trees for removal and protection.
- Install Gravel Construction Entrance for Phase 1. Sediment Basin to be constructed during transition from Phase 1 to Phase 2 and operational before 10,000 sf of new BUA is placed.
- Construct any other sediment control Practices for Phase 2 shown, prior to rough grading paving lot and site, stockpiling material and topsoil as necessary.
- Install utilities in parking lot, establish final grades and stabilize parking areas with stone base course.
- Final grade building site, install non-municipal utilities as needed, and vegetatively stabilize areas where building construction is not imminent.
- All erosion and sediment control Practices are to be inspected weekly and after any rainfall, and repaired as necessary.
- Upon completion of building construction, the roadway and parking areas are to be paved and all areas permanently vegetatively stabilized. After site stabilization, temporary measures are to be removed and the Sediment Basin cleaned to its original design contours, if necessary, and riser structures orifices opened, so as to function as a stormwater management / water quality retention pond.

PHASING SCHEDULE -

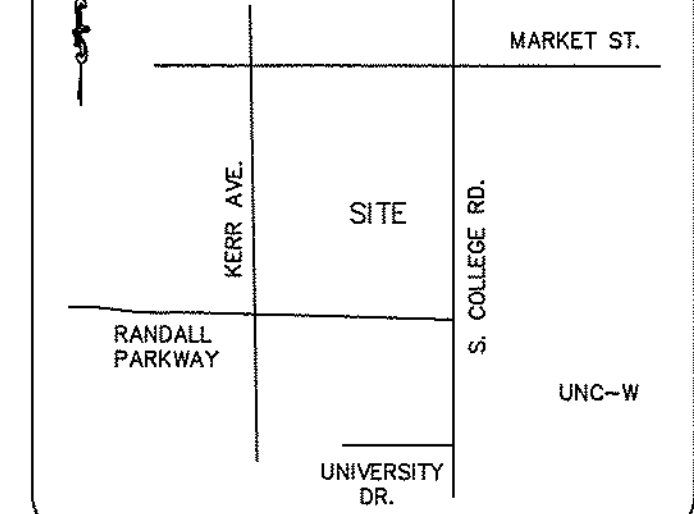
- Phase 1 construction to be completed and new building substantially completed prior to commencing Phase 2.
- Contractor to coordinate staging of College Road entrances with NCDOT and the City of Wilmington. Terms of the permit, including night construction, to be coordinated with DOT.
- Contractor responsible for coordinating re-location of any utilities with the appropriate agencies.

SEE SHEET 3 OF 4 FOR ADDITIONAL  
EROSION CONTROL PRACTICES AND DETAILS



LOCATION MAP

(NOT TO SCALE)



STORMWATER MANAGEMENT PLAN APPROVED  
CITY OF WILMINGTON  
ENGINEERING DEPARTMENT  
DATE \_\_\_\_\_  
PERMIT # \_\_\_\_\_  
SIGNED \_\_\_\_\_

Approved Construction Plan  
Name \_\_\_\_\_ Date \_\_\_\_\_  
Planning \_\_\_\_\_  
Traffic \_\_\_\_\_  
Fire \_\_\_\_\_

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

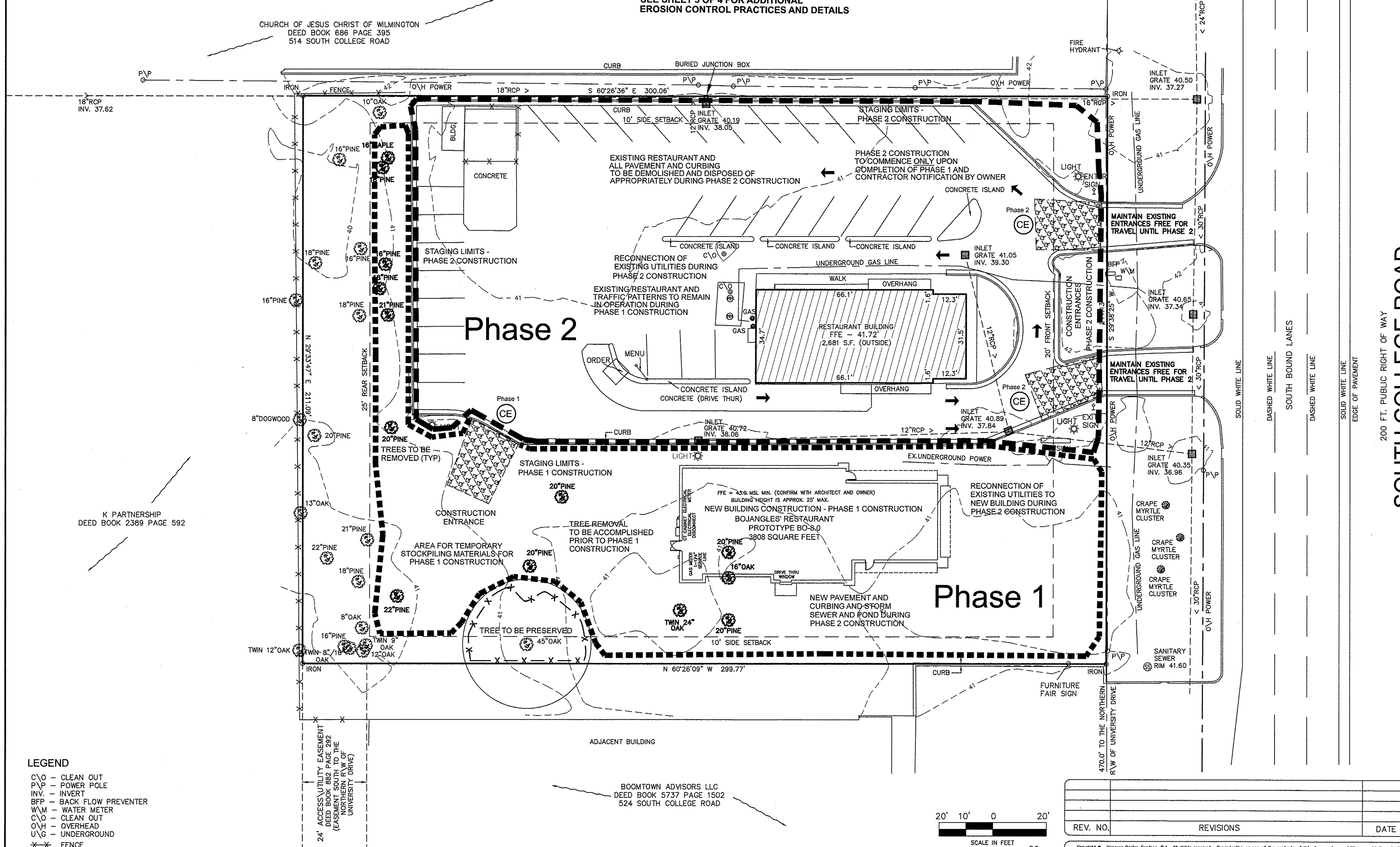
ADDITIONAL NOTES  
THIS PROPERTY IS LOCATED IN FLOOD ZONE X ACCORDING TO FIRM MAP 372031374, EFFECTIVE DATE APRIL 3, 2006  
NO OBSERVED EVIDENCE OF RECENT EARTH MOVING ACTIVITY.  
NO OBSERVED EVIDENCE OF A SOLID WASTE DUMP  
BASED ON RECENT SURVEY AND OBSERVED EVIDENCE NO WETLANDS

SITE DATA  
TAX PARCEL No. R05507-002-069-000  
TRACT AREA - 63,300 S.F. 1.45 ACRES  
ZONED - O&I (OFFICE & INSTITUTIONAL)  
SETBACKS FRONT - 20'  
REAR - 25' (RESIDENTIAL)  
SIDE - 10'  
LOT COVERAGE 40%  
30 PARKING SPACES (EXISTING)

NOTES  
1. AREA COMPUTED BY COORDINATE METHOD  
2. ALL DISTANCES ARE HORIZONTAL GROUND  
3. THIS SURVEY IS NOT FOR RECORDATION, IT DOES NOT MEET ALL REQUIREMENTS OF G.S. 47-30.  
4. THE UNDERGROUND UTILITIES SHOWN ON THIS SURVEY ARE LOCATED FROM FIELD SURVEY INFORMATION, AND EXISTING ASBUILT DRAWINGS. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH THE SURVEYOR DOES CERTIFY THAT THE UTILITIES ARE LOCATED AS ACCURATELY AS POSSIBLE FORM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.  
5. FOR REFERENCE SEE DEED BOOK 1991 PAGE 087  
6. THIS TRACT IS NOT LOCATED IN A SPECIAL FLOOD HAZARD AREA  
7. VERTICAL DATUM NAVD 88  
8. 1.45 ACRES TOTAL AREA

ZONED: O&I-1  
ADDRESS: 520 S College Road  
DEVELOPER: Bojangles Restaurants, Inc.  
9432 Southern Pines Blvd.  
Charlotte, NC 27273  
704-940-8669  
PARCEL ID: R05507-002-069-000  
OWNER: Cajun Properties Inc.  
9432 Southern Pines Blvd.  
Charlotte, NC 28273  
704-940-8669

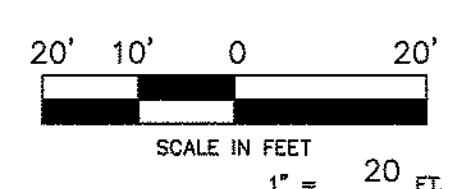
NOTE WELL:  
THIS STAGING PLAN IS INTENDED AS AN AID FOR THE CONTRACTOR IN COORDINATING ACCESS TO EXISTING FACILITIES. NOTHING IN THIS PLAN IS INTENDED TO RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITIES TO COMPLY WITH FEDERAL, STATE, OR CITY REQUIREMENTS AND STANDARDS.



SOUTH COLLEGE ROAD  
200 FT. PUBLIC RIGHT OF WAY

LEGEND

C/O	- CLEAN OUT
P/P	- POWER POLE
INV.	- INVERT
BFP	- BACK FLOW PREVENTER
WM	- WATER METER
C/O	- CLEAN OUT
O/H	- OVERHEAD
U/G	- UNDERGROUND
X-X	- FENCE



REV. NO.	REVISIONS	DATE

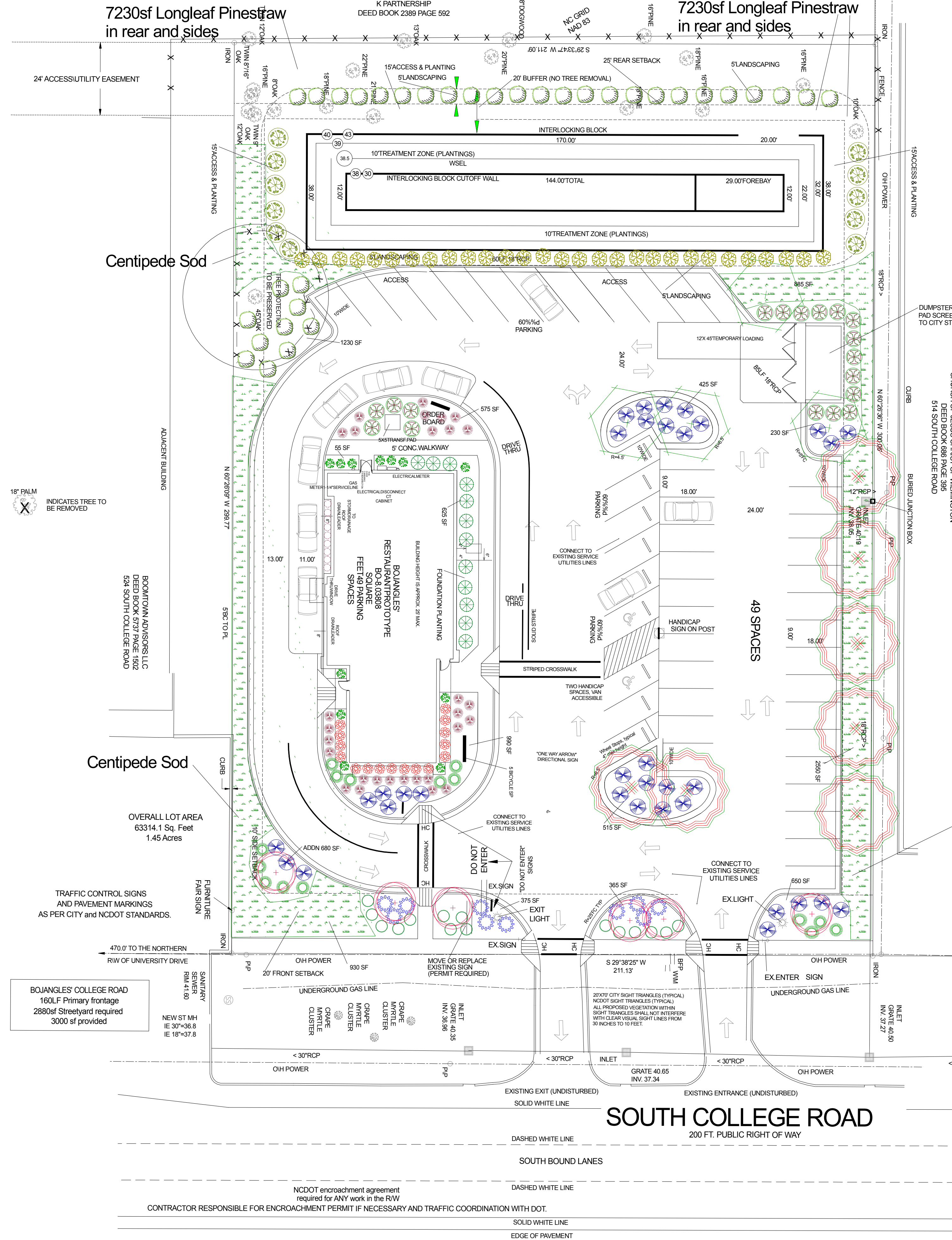
Construction Staging and Demolition Plan & Tree Removal Plan  
**BOJANGLES' College Road**  
LOCATED IN CITY OF WILMINGTON

SMITHVILLE TOWNSHIP  
NEW HANOVER COUNTY, NORTH CAROLINA

DEVELOPER: BOJANGLES' RESTAURANTS INC.  
9432 SOUTHERN PINES BLVD.  
CHARLOTTE, NC 28273 phone: 704-940-8669

HANOVER DESIGN SERVICES, P.A.  
LAND SURVEYORS, ENGINEERS & LAND PLANNERS  
1123 FLORAL PARKWAY  
WILMINGTON, N.C. 28403  
PHONE: (910) 343-8002  
LICENSE # C-6597

Date: 3-12-15  
Scale: 1" = 30'  
Drawn: DSH  
Checked: DSH  
Project No: 12354  
Sheet No: 1  
Of: 1



**Parking: "Restaurant"**  
 3185 sf exclusive of kitchen and restroom  
 49 spaces maximum @ 1165sf  
 40 spaces minimum @ 180sf  
 47 regular spaces provided  
 2 van accessible HC spaces provided  
 No loading space required - one provided  
 5 bicycle spaces required - 5 provided

NOTE: NO WETLANDS ON THIS SITE.  
 CANAL LAND USE CLASSIFICATION: "URBAN"  
 SITE NOT IN A SHOD OR COD.  
 APPROXIMATE TIME TO COMPLETION: UNDER 1 YEAR.

PAVEMENT MARKING  
 ARROWS MUST BE AT LEAST  
 1/2 SIZE STANDARD ROADWAY  
 ARROWS AS PER CITY TECH.STDS.

TRAFFIC CONTROL SIGNS  
 AND PAVEMENT MARKINGS  
 AS PER CITY and NCDOT STANDARDS.

ONE SIGNIFICANT TREE ON SITE TO BE PRESERVED.  
 REGULATED TREES TO BE REMOVED ARE FOR ESSENTIAL  
 SITE IMPROVEMENTS. NO REGULATED TREES ARE LOCATED  
 IN EXCESS PARKING AREAS.

NOTE: DETAILED LANDSCAPING  
 PLAN TO CITY  
 STANDARDS BY OTHERS.

**SITE DATA TABLE:**  
 TAX PARCEL IDENTIFICATION NUMBERS:  
 R0507 002069000  
 DB 1991 PG 087

ZONING: O&1  
 SETBACKS OF BUILDING:  
 REQUIRED FRONT - 20' REAR - 25' SIDE - 10'  
 PROVIDED FRONT - 59' REAR - 140' SIDE - 21'

ACREAGE = 1.45 ACRES (63,314 sq ft)

LOT COVERAGE:  
 BUILDINGS & OVERHANGS ETC - 4,140 SF  
 PARKING & DRIVES - 31,040 SF  
 SIDEWALKS ETC - 2,110 SF  
 TOTAL IMPERVIOUS = 37,988 SF = 60% OF 1.45 ACRES  
 FUTURE - 698 SF

ONE BUILDING PROPOSED FOR BOJANGLES' 520 S. COLLEGE ROAD  
 BUILDING OUTSIDE SIZE = 4,140 SF ; BUILDING LOT COVERAGE = 7%

PARKING & DRIVES - 30,000 SF x 20% = 6,000sf Req'd. Canopy Coverage, 9,536sf Prov'd.

LANDSCAPING SHALL BE COMPLETE BEFORE ISSUANCE OF A C.O.  
 A rain/freeze sensor shall be used if there is an irrigation system.  
 USING THE CREATIVE STANDARD OF THE CODE 50% OF THE STREET YARDS SHALL BE PLANTED AS CALLED OUT.

Legend			
Common Name	Size	Qty	
Allee Elm	2.5" Cal., 10'Ht.	4	
Boxwood Hedge, Wintergreen	3 Gal.	16	12"Ht.
Pittosporum Compacta	3 Gal.	12	12"Ht.
Camellia Sasanqua Yuletide	3 Gal.	11	12"Ht.
Crape Myrtle Tuscarora	2.5" Cal., 8'Ht.	6	
Azalea Formosa	3 Gal.	34	18"Ht.
Japanese Yew	7 Gal.	29	36"Ht.
Juniper Parsoni	3 Gal.	34	12"Ht.
Ligustrum, Variegated	7 Gal.	18	33"Ht.
Nandina Gulfstream	3 Gal.	9	18"Ht.
European Hornbeam	3" Cal., 10'Ht.	7	
Drift Rose	3 Gal.	19	Groundcover
Breeze Grass	3 Gal.	19	12"Ht.
Knockout Rose, Dbl. Red	3 Gal.	15	18"Ht.
Dwarf Yaupon Holly	3 Gal.	12	12"Ht.
Wax Myrtle	3 Gal.	11	30"Ht.
Centipede Sod	SY	585	
Brown-Dyed Mulch	CY	70	
Wetlands Plants, 6 rows, 2'oc, 3 varieties 4" pot		1089	

Quantities listed are for convenience only. Landscape Contractor responsible for actual quantities.

Prior to any clearing, grading or construction activity, tree protection fencing will be installed around protected trees or groves of trees. No construction workers, tools, materials or vehicles are permitted within the tree protection fencing.

The areas within the triangular sight distance shall be maintained free of all obstructions between 30' and 10'.

Date Drawn: 3-30-15  
 Revision #1  
 Revision #2  
 Revision #3

All planted and retained living material required to meet the provisions of the City of Wilmington Land Development Code, shall be perpetually protected and maintained to professionally accepted standards by joint and several responsibility of the owner, tenant and respective agents of the property on which the material is located.

STORMWATER  
 MANAGEMENT PLAN APPROVED BY CITY  
 OF  
 WILMINGTON ENGINEERING  
 DEPARTMENT DATE  
 #  
 #  
 SIGNED

Approved Construction Plan  
 Name Date Planning Traffic Fire  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

DEVELOPER: BOJANGLES' RESTAURANTS INC.  
 9432 SOUTHERN PINE BLVD.  
 CHARLOTTE, NC 28273 phone: 704-940-8669

JIM@FREEMANLANDSCAPE.COM 910-796-1166

Revision #:  
 Date: 3/30/2015

Scale:  
 1" = 20'

Landscape Plan:  
 Bojangles', College Rd.

Landscape Design by: James Freeman - NCLC# 71  
 Freeman Landscape, Inc.