

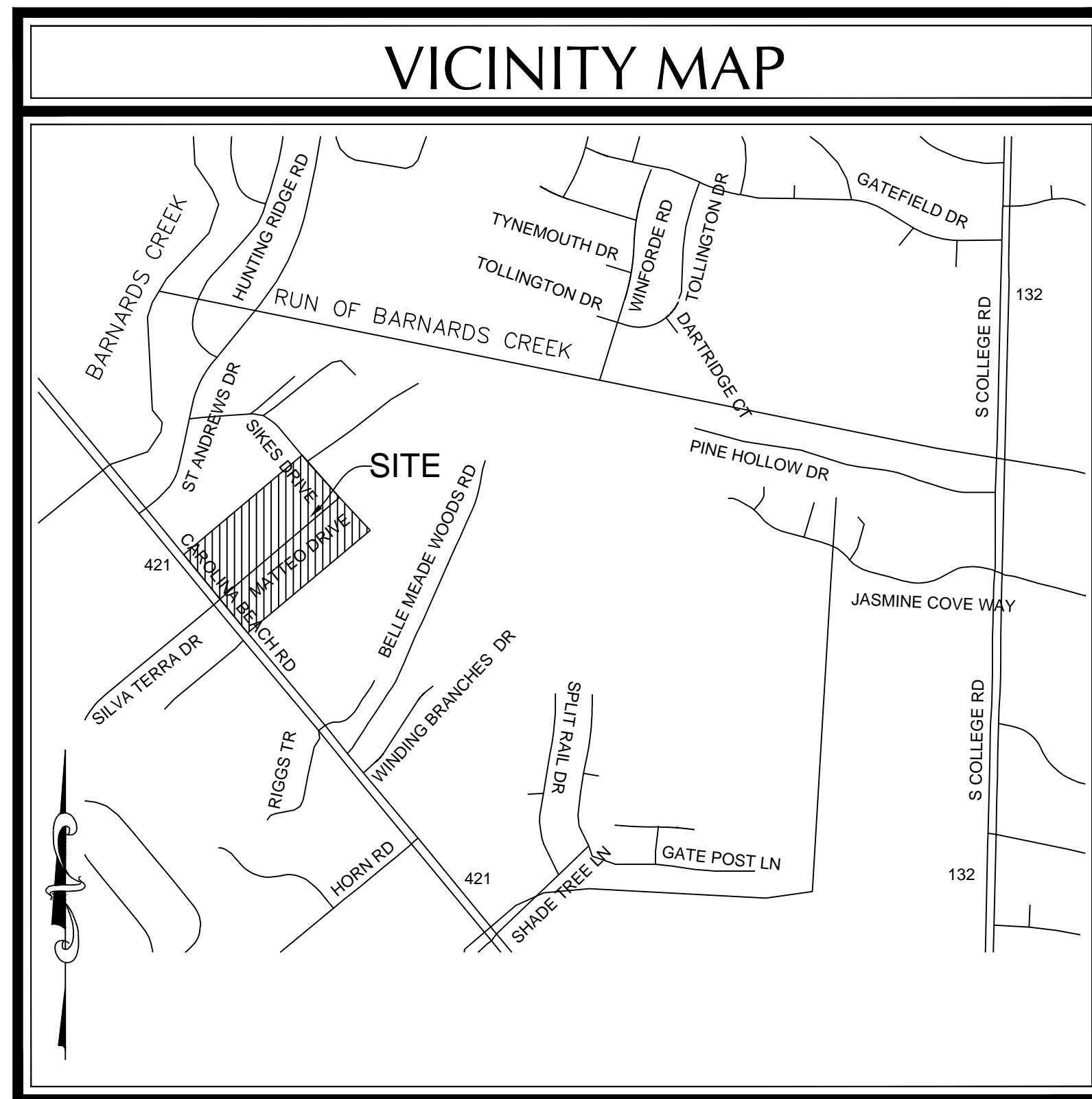
SITE DEVELOPMENT PLAN

FOR

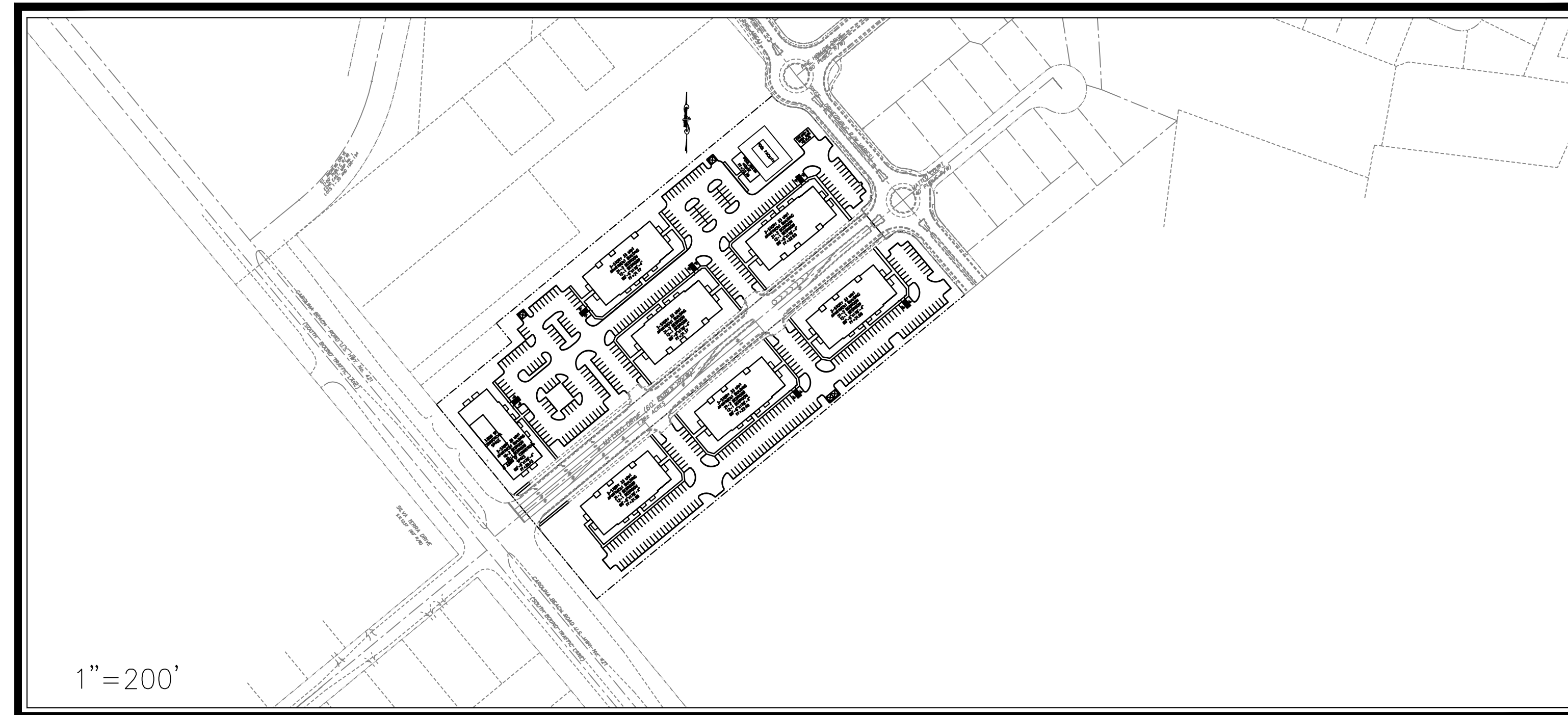
BELLE MEADE APARTMENTS

WILMINGTON, NORTH CAROLINA

DECEMBER 2014



VICINITY MAP
(NTS)



DESCRIPTION	EXISTING	PROPOSED
1' CONTOUR INTERVAL	———	———
5' CONTOUR INTERVAL	- - - - -	———
PROPERTY LINE	- - - - -	———
ROADWAY CENTERLINE	———	———
RIGHT OF WAY LIMITS	- - - - -	———
EASEMENT LINE	———	———
CURB & GUTTER	———	———
SANITARY SEWER FACILITIES	———	———
STORM SEWER FACILITIES	———	———
WATERLINE	———	———
FIRE HYDRANT ASSEMBLY		
WATERWAYS	———	N/A
PROPOSED LOT AND S.F.	X	5,000 s.f.
OPEN SPACE LABEL		STREET SIGN
OPEN SPACE		404 WETLANDS
BUILDING SET BACKS	———	FLOW DIRECTION
PRIVATE SANITARY SET BACKS	———	

DEVELOPER/OWNER

**BELLE MEADE
DEVELOPMENT PARTNERS, LLC**
6626-C GORDON ROAD
WILMINGTON, NC 28411
PHONE: (910) 799-3006

PREPARED BY:

GSP CONSULTING, PLLC
ENGINEERING
6626 Gordon Road, Unit C, Wilmington, North Carolina 28411 tel: 910-442-7870 fax: 910-799-6659 License # P-0718

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Public Services • Engineering Division
APPROVED STORMWATER MANAGEMENT PLAN
Date: _____ Permit # _____
Signed: _____

Approved Construction Plan

Planning _____ Name _____ Date _____
Traffic _____
Fire _____

SITE DATA TABLE	
GENERAL NOTES:	
1. NEW HANOVER COUNTY PARCEL NOS. PIN 312408.99.9928.000 / PID R07000-004-004-000 PIN 313517.00.5557.000 / PID R07100-003-005-000 PIN 313517.00.6444.000 / PID R07100-003-007-000 PIN 313517.00.7245.000 / PID R07100-003-008-000	
SITE ADDRESS: 4703 CAROLINA BEACH ROAD	
2. TOTAL TRACT AREA: 10.93 AC.± (476,251 S.F.)	
3. ZONING DISTRICT: B-1 (CDMU)	
REQ'D. SETBACKS -	PROV'D SETBACKS -
20' FRONT	20' FRONT
35' REAR*	35' REAR*
10' SIDE	10' SIDE
* (ADJACENT TO RESIDENTIAL ZONED PROPERTY)	
4. CAMA LAND CLASSIFICATION: URBAN	
5. THERE ARE NO WETLANDS LOCATED ON THIS PROPERTY.	
6. THIS PROPERTY IS NOT WITHIN A SPECIAL FLOOD HAZARD ZONE PER FEMA FLOOD INSURANCE RATE MAP #3720313500J, REVISED DATE 04/03/06	
DEVELOPMENT DATA:	
TOTAL TRACT AREA = 10.93 AC.	
DEVELOPMENT AREA = 10.93 AC.	
PROPOSED DENSITY 228 UNITS = 20.86 UNITS/AC	
BUILDING COVERAGE = 105,800 S.F. (22.2%)	
(7-3 STORY) @ 80.5' X 178.33' + BATHHOUSE + MAINTENANCE BLDG + COMMERCIAL SPACE	
TOTAL GROSS FLOOR AREA = 310,284 S.F. GFA	
COMMERCIAL = 3,800 S.F.±	
APARTMENTS = 306,484 S.F.±	
310,284 SF (65.2%)	
TOTAL BEDROOMS = 372	
84 X 1 BR = 84 BR	
144 X 2 BR = 288 BR	
MAX. BLDG. HGT. = 3-STORY / 35' MEAN ROOF	
PROPOSED = 35' MEAN ROOF	
PARKING -	
84 - 1 BR UNITS X 1.5 MIN. SP./UNIT = 126	
144 - 2 BR UNITS X 2.0 MIN. SP./UNIT = 288	
3,800 SF COMMERCIAL - 1 SP./400 SF = 10	
MINIMUM TOTAL SPACES REQ'D. = 424	
84 - 1 BR UNITS X 2.5 MAX. SP./UNIT = 210	
144 - 2 BR UNITS X 2.5 MAX. SP./UNIT = 360	
3,800 SF COMMERCIAL - 1 SP./200 SF = 19	
MAXIMUM TOTAL SPACES PERMIT'D. = 589	
** 437 TOTAL SPACES PROV'D. (12 H/C) **	
PER ADA REGS FOR PARKING FACILITY WITH 401-500 SPACES 9 H/C SPACES REQUIRED	
BIKE PARKING REQ'D = 5 MIN/100 SPACES	
BIKE PARKING PROV'D = 22	
NEW IMPERVIOUS SURFACES -	
ROOFTOP -	105,800 S.F.
ASPHALT PAVEMENT -	164,547 S.F.
CONCRETE -	23,485 S.F.
NEW TOTAL -	293,832 S.F. (61.7%)
UTILITY CAPACITY REQUESTS:	
PROPOSED SEWER CAPACITY -	
228 UNITS @ 240 GPD/BR = 54,720 GPD	
PROPOSED WATER CAPACITY -	
228 UNITS @ 400 GPD/BR = 91,200 GPD	
For each open utility cut of City streets, a \$325 permit shall be required from the City prior to occupancy and/or project acceptance.	
NOTE: ALL DESIGN AND CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE CITY OF WILMINGTON LAND DEVELOPMENT CODE, TECHNICAL STANDARDS MANUAL & THE STATE OF NORTH CAROLINA.	

COORDINATION NOTES

- 1. THE CONTRACTOR IS REQUIRED TO OBTAIN ANY/ALL PERMITS REQUIRED FOR CONSTRUCTION OF THESE PLANS.
2. ALL WORK IS TO BE IN ACCORDANCE WITH CITY OF WILMINGTON, NEW HANOVER COUNTY, THE CAPE FEAR PUBLIC UTILITY AUTHORITY (CFPUA) AND THE STATE OF NORTH CAROLINA.
3. THE CONTRACTOR IS TO ESTABLISH AND CHECK ALL HORIZONTAL AND VERTICAL CONTROLS TO BE USED WITH THE PROJECT.
4. ANYTIME WORK IS PERFORMED OFF-SITE OR WITHIN AN EXISTING EASEMENT, THE CONTRACTOR IS TO NOTIFY THE HOLDER OF SAID EASEMENT AS TO THE NATURE OF PROPOSED WORK, AND TO FOLLOW ANY GUIDELINES OR STANDARDS WHICH ARE ASSOCIATED WITH OR REFERENCED IN THE RECORDED EASEMENT.

GENERAL NOTES:

- 1. EXISTING TOPOGRAPHY, BOUNDARY AND UTILITIES, HAVE BEEN PREPARED BY FIELD SURVEY BY MICHAEL UNDERWOOD & ASSOCIATES, PA., PREVIOUSLY APPROVED PLANS AND OTHER AVAILABLE INFORMATION.
2. REASONABLE CARE HAS BEEN EXERCISED IN SHOWING THE LOCATION OF EXISTING UTILITIES ON THE PLANS. THE EXACT LOCATION OF ALL EXISTING UTILITIES IS NOT KNOWN IN ALL CASES.
3. CONTRACTOR SHALL COMPLY WITH THE LATEST REVISIONS AND INTERPRETATIONS OF THE DEPARTMENT OF LABOR SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION PROMULGATED UNDER THE OCCUPATIONAL SAFETY AND HEALTH ACT.
4. CONTRACTOR SHALL PLAN AND CONSTRUCT WORK SO AS TO CAUSE MINIMUM INCONVENIENCE TO THE OWNER AND THE PUBLIC.
5. ALL MATERIAL CLEARED OR DEMOLISHED BY THE CONTRACTOR IN ORDER TO CONSTRUCT THE WORK SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE PROPERLY DISPOSED OF OFF-SITE.
6. ALL WORK BY THE CONTRACTOR SHALL BE WARRANTED BY THE CONTRACTOR FOR A PERIOD OF ONE YEAR AFTER THE OWNER ACCEPTS THE WORK.
7. CONTRACTOR SHALL CALL THE NORTH CAROLINA ONE-CALL CENTER AT 1 (800) 632-4949 AND ALLOW THE CENTER TO LOCATE EXISTING UTILITIES BEFORE DIGGING.
8. CONTRACTOR SHALL REMOVE ASPHALT, AGGREGATE BASE COURSE, AND CONCRETE CURB & GUTTER WITHIN LIMITS OF DEMOLITION AS SHOWN ON PLAN.

DEMOLITION NOTES

- 1. CONTRACTOR TO COORDINATE WITH THE OWNER TO PROPERLY MAINTAIN OR RELOCATE EXISTING SERVICE CONNECTIONS WHEN NECESSARY.
2. CONTRACTOR IS TO WALK THE SITE AND BECOME FAMILIAR WITH THE SCOPE OF DEMOLITION REQUIRED. ALL DEMOLITION WORK REQUIRED TO CONSTRUCT NEW SITE IMPROVEMENTS WILL BE PERFORMED BY THE CONTRACTOR AND WILL BE UNCLASSIFIED EXCAVATION.
3. DEMOLITION SHALL INCLUDE BUT IS NOT LIMITED TO THE EXCAVATION, HAULING AND OFFSITE DISPOSAL OF CONCRETE PADS, CONCRETE DITCHES, FOUNDATIONS, SLABS, STEPS, AND STRUCTURES; ABANDONED UTILITIES, BUILDINGS, PAVEMENTS AND ALL MATERIALS CLEARED AND STRIPPED TO THE EXTENT NECESSARY AS DIRECTED BY THE SOILS ENGINEER FOR THE INSTALLATION OF THE NEW IMPROVEMENTS AND WITHIN THE LIMITS OF CLEARING AND GRADING AND AS SHOWN ON THESE PLANS.
4. THE CONTRACTOR SHALL PROTECT ALL ADJACENT PROPERTY, STRUCTURES AND UTILITIES ON THE PROPERTY NOT TO BE DEMOLISHED. DAMAGE TO PROPERTIES OF OTHERS DUE TO THE CONTRACTOR'S ACTIVITIES SHALL BE REPLACED IN KIND BY THE CONTRACTOR AT NO COST TO OWNER.
5. ELECTRIC, TELEPHONE, SANITARY SEWER, WATER AND STORM SEWER UTILITIES THAT SERVICE OFF-SITE PROPERTIES SHALL BE MAINTAINED DURING THE CONSTRUCTION PROCESS BY THE CONTRACTOR.
6. EXISTING UTILITIES NOT INTENDED FOR DEMOLITION SHALL BE MAINTAINED, PROTECTED AND UNDISTURBED DURING DEMOLITION
7. ALL EXISTING IMPROVEMENTS INDICATED OR REQUIRED TO BE DEMOLISHED SHALL INCLUDE REMOVAL FROM THE PROPERTY AND PROPER DISPOSAL.
8. CONTRACTOR SHALL COORDINATE RELOCATION OF ALL EXISTING OVER HEAD AND UNDERGROUND UTILITIES INCLUDING CABLE, GAS, TELEPHONE AND ELECTRIC AND ANY OTHER UTILITIES THROUGH THE SITE WITH THE RESPECTIVE COMPANIES.
9. PROVIDE SMOOTH SAW CUT OF EXISTING PAVEMENTS, CURBS AND GUTTERS AND SIDEWALKS TO BE DEMOLISHED.
10. ALL DEMOLITION WORK SHALL BE DONE IN STRICT ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS AS WELL AS OSHA REGULATIONS.
11. INFORMATION CONCERNING UNDERGROUND UTILITIES WAS OBTAINED FROM AVAILABLE RECORDS, BUT THE CONTRACTOR MUST DETERMINE THE EXACT LOCATION AND ELEVATIONS OF THE MAINS BY DIGGING TEST PITS BY HAND.

EROSION AND SEDIMENT CONTROL NOTES

GENERAL NOTES:

- 1. CLEAR AND REMOVE FROM SITE ALL TREES, ROOTS, ROOT MAT, ETC. FROM THE AREA WITHIN DESIGNATED CLEARING LIMITS.
2. PLANT GRASS OVER ALL GRADED AREAS AS SHOWN IN THE TABLE ON THIS SHEET OF CEASE OF ANY GRADING ACTIVITY.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING AND RESTORING TO PRE-CONSTRUCTION CONDITIONS ANY AREAS OUTSIDE THE PROJECT LIMITS THAT MAY INADVERTENTLY BE DAMAGED DUE TO THE FAILURE OF THE EROSION MEASURES.
4. DURING GRADING AND AFTER GRADING HAS BEEN COMPLETED, CONTRACTOR SHALL CONTINUE TO MAINTAIN PERMANENT AND TEMPORARY EROSION CONTROL MEASURES UNTIL FINAL INSPECTION AND APPROVAL BY NEW HANOVER COUNTY.
5. WATER, FERTILIZE, MOW AND MAINTAIN SPRIGGED, SODDED AND PLANTED AREAS UNTIL FINAL APPROVAL BY NEW HANOVER COUNTY.
6. ANY BORROW MATERIAL BROUGHT ONTO SITE MUST BE FROM A LEGALLY OPERATED MINE OR OTHER APPROVED SOURCE.
7. ANY EXCESS MATERIAL REMOVED FROM SITE MUST BE HAULED TO A LEGALLY OPERATED MINE OR OTHER APPROVED SOURCE.

MAINTENANCE PLAN

ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE CHECKED FOR STABILITY AND OPERATION FOLLOWING EVERY RUNOFF-PRODUCING RAINFALL, BUT IN NO CASE, LESS THAN ONCE EVERY WEEK AND WITHIN 24 HOURS OF EVERY HALF INCH RAINFALL.

ALL POINTS OF EGRESS WILL HAVE CONSTRUCTION ENTRANCES THAT WILL BE PERIODICALLY TOP-DRESSED WITH AN ADDITIONAL 2 INCHES OF #4 STONE TO MAINTAIN PROPER DEPTH. THEY WILL BE MAINTAINED IN A CONDITION TO PREVENT MUD OR SEDIMENT FROM LEAVING THE SITE. IMMEDIATELY REMOVE OBJECTIONABLE MATERIAL SPILLED WASHED OR TRACKED ONTO THE CONSTRUCTION ENTRANCE OR ROADWAYS.

SEDIMENT WILL BE REMOVED FROM HARDWARE CLOTH AND GRAVEL INLET PROTECTION, BLOCK AND GRAVEL INLET PROTECTION, ROCK DOUGHNUT INLET PROTECTION AND ROCK PIPE INLET PROTECTION WHEN THE DESIGNED STORAGE CAPACITY HAS BEEN HALF FILLED WITH SEDIMENT. ROCK WILL BE CLEANED OR REPLACED WHEN THE SEDIMENT POOL NO LONGER DRAINS AS DESIGNED. DEBRIS WILL BE REMOVED FROM THE ROCK AND HARDWARE CLOTH TO ALLOW PROPER DRAINAGE. SILT SACKS WILL BE EMPTIED ONCE A WEEK AND AFTER EVERY RAIN EVENT. SEDIMENT WILL BE REMOVED FROM AROUND BEAVER DAMS, DANDY SACKS AND SOCKS ONCE A WEEK AND AFTER EVERY RAIN EVENT.

DIVERSION DITCHES WILL BE CLEANED OUT IMMEDIATELY TO REMOVE SEDIMENT OR OBSTRUCTIONS FROM THE FLOW AREA. THE DIVERSION RIDGES WILL ALSO BE REPAIRED. SWALES MUST BE TEMPORARILY STABILIZED WITHIN 21 CALENDAR DAYS OF CEASE OF ANY PHASE OF ACTIVITY ASSOCIATED WITH A SWALE.

SEDIMENT WILL BE REMOVED FROM BEHIND THE SEDIMENT FENCE WHEN IT BECOMES HALF FILLED. THE SEDIMENT FENCE WILL BE REPAIRED AS NECESSARY TO MAINTAIN A BARRIER. STAKES MUST BE STEEL. STAKE SPACING WILL BE 6 FEET MAX. WITH THE USE OF EXTRA STRENGTH FABRIC, WITHOUT WIRE BACKING, STAKE SPACING WILL BE 8 FEET MAX. WHEN STANDARD STRENGTH FABRIC AND WIRE BACKING ARE USED. IF ROCK FILTERS ARE DESIGNED AT LOW POINTS IN THE SEDIMENT FENCE THE ROCK WILL BE REPAIRED OR REPLACED IF IT BECOMES HALF FULL OF SEDIMENT, NO LONGER DRAINS AS DESIGNED OR IS DAMAGED.

SEDIMENT WILL BE REMOVED FROM SEDIMENT TRAPS WHEN THE DESIGNED STORAGE CAPACITY HAS BEEN HALF FILLED WITH SEDIMENT. THE ROCK WILL BE CLEANED OR REPLACED WHEN THE SEDIMENT POOL NO LONGER DRAINS OR WHEN THE ROCK IS DISLODGED. BAFFLES WILL BE REPAIRED OR REPLACED IF THEY COLLAPSE, TEAR, DECOMPOSE OR BECOME INEFFECTIVE. THEY WILL BE REPLACED PROMPTLY. SEDIMENT WILL BE REMOVED WHEN DEPOSITS REACH HALF THE HEIGHT OF THE 1ST BAFFLE.

SEDIMENT WILL BE REMOVED FROM THE SEDIMENT BASIN WHEN THE DESIGN STORAGE CAPACITY HAS BEEN HALF FILLED WITH SEDIMENT. ROCK WILL BE CLEANED OR REPLACED WHEN THE SEDIMENT POOL NO LONGER DRAINS OR IF THE ROCK IS DISLODGED. BAFFLES WILL BE REPAIRED OR REPLACED IF THEY COLLAPSE, TEAR, DECOMPOSE OR BECOME INEFFECTIVE. THEY WILL BE REPLACED PROMPTLY. SEDIMENT WILL BE REMOVED FROM BAFFLES WHEN DEPOSITS REACH HALF THE HEIGHT OF THE 1ST BAFFLE. FLOATING SKIMMERS WILL BE INSPECTED WEEKLY AND WILL BE KEPT CLEAN.

ALL SEEDED AREAS WILL BE FERTILIZED, RESEEDDED AND MULCHED ACCORDING TO SPECIFICATIONS IN THE VEGETATIVE PLAN TO MAINTAIN A VIGOROUS, DENSE VEGETATIVE COVER. ALL SLOPES WILL BE STABILIZED WITHIN 21 CALENDAR DAYS. ALL OTHER AREAS WILL BE STABILIZED WITHIN 15 WORKING DAYS.

FLOCCULANTS WILL BE USED TO ADDRESS TURBIDITY ISSUES. THE PUMPS, TANKS, HOSES AND INJECTION SYSTEMS WILL BE CHECKED FOR PROBLEMS OR TURBID DISCHARGES DAILY.

STABILIZATION NOTES

- 1. ALL DISTURBED AREAS WILL BE STABILIZED WITHIN 15 WORKING DAYS OF CEASE OF ANY PHASE OF ACTIVITY AND SLOPES WITHIN 21 CALENDAR DAYS.

PERMANENT SEEDING SCHEDULE - MIXTURE 50P

Table with 2 columns: SPECIES, RATE (LB/ACRE). Includes Centipede Grass at 10-20.

Seeding Dates
MARCH - JUNE

Soil Amendments
APPLY LIME AND FERTILIZER ACCORDING TO SOIL TESTS, OR APPLY 300 LB/ACRE 10-10-10 FERTILIZER.

Mulch
DO NOT MULCH.

Maintenance
FERTILIZE VERY SPARINGLY LB/ACRE NITROGEN IN SPRING WITH NO PHOSPHORUS. CENTIPEDE GRASS CANNOT TOLERATE HIGH PH OR EXCESS FERTILIZER.

TEMPORARY SEEDING-LATE WINTER/EARLY SPRING

WINTER AND EARLY SPRING

Table with 2 columns: SPECIES, RATE (LB/ACRE). Includes Rye (GRAIN) at 120, Annual Lespedeza (Kobe in Piedmont and Coastal Plain, Korean in Mountains) at 50, and Omit Annual Lespedeza when duration of temporary cover is not to extend beyond June.

SUMMER

Table with 2 columns: SPECIES, RATE (LB/ACRE). Includes German Millet at 40.

FALL

Table with 2 columns: SPECIES, RATE (LB/ACRE). Includes Rye (GRAIN) at 120.

Seeding dates
COASTAL PLAIN - DEC.1-APR. 15 - LATE WINTER AND EARLY SPRING
APRIL 15 - AUG. 15 - SUMMER
AUG. 15 - DEC. 30 - FALL

Soil amendments
FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 2,000 LB/ACRE GROUND AGRICULTURAL LIMESTONE AND 750 LB/ACRE 10-10-10 FERTILIZER.

Mulch
APPLY 4,000 LB/ACRE STRAW. ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING OR A MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.

Maintenance
REFERTILIZE IF GROWTH IS NOT FULLY ADEQUATE. RESEED, REFERTILIZE AND MULCH IMMEDIATELY FOLLOWING EROSION OR OTHER DAMAGE.

GENERAL GRADING NOTES

- 1. REASONABLE CARE HAS BEEN EXERCISED IN SHOWING THE LOCATION OF EXISTING UTILITIES ON THE PLANS. THE EXACT LOCATION OF SUCH UTILITIES IS NOT KNOWN IN ALL CASES. THE CONTRACTOR SHALL EXPLORE THE AREA AHEAD OF THE DITCHING OPERATION BY OBSERVATIONS, ELECTRONIC DEVICES, HAND DIGGING AND BY PERSONAL CONTACT WITH THE UTILITY COMPANIES IN ORDER TO LOCATE EXISTING UTILITIES IN ADVANCE OF THE TRENCHING OPERATIONS SO AS TO AVOID AND PREVENT DAMAGE TO THE EXISTING UTILITIES.
2. CONTRACTOR SHALL COMPLY WITH THE LATEST REVISIONS AND INTERPRETATIONS OF THE DEPARTMENT OF LABOR SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION PROMULGATED UNDER THE OCCUPATIONAL SAFETY AND HEALTH ACT.
3. CONTRACTOR SHALL PLAN AND CONSTRUCT WORK SO AS TO CAUSE MINIMUM INCONVENIENCE TO THE OWNER AND THE PUBLIC. THE CONTRACTOR SHALL PROVIDE, ERECT AND MAINTAIN AT ALL TIMES DURING THE PROGRESS OR TEMPORARY SUSPENSION OF WORK, SUITABLE BARRIERS, FENCES, SIGNS OR OTHER ADEQUATE PROTECTION, INCLUDING FLAG MEN AND WATCHMEN AS NECESSARY TO INSURE THE SAFETY OF THE PUBLIC AS WELL AS THOSE ENGAGED IN THE CONSTRUCTION WORK.
4. ALL MATERIAL CLEARED AND GRUBBED BY THE CONTRACTOR IN ORDER TO CONSTRUCT THE WORK, SUCH AS TREES, VEGETATION, FENCING, ETC., SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE PROPERLY DISPOSED OF OFF-SITE OR BURNED IF PROPER PERMITS ARE RECEIVED.

SITE NOTES

- 1. ANY DISCREPANCY IN THIS PLAN AND ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE OWNER PRIOR TO START OF CONSTRUCTION.
2. THE GENERAL CONTRACTOR SHALL CONTACT ALL OWNERS OF EASEMENTS, UTILITIES AND R.O.W.'S PUBLIC OR PRIVATE, PRIOR TO WORKING IN THESE AREAS.
3. CONTRACTOR SHALL MAINTAIN THE SITE IN A MANNER SO THAT WORKMEN AND PUBLIC SHALL BE PROTECTED FROM INJURY, AND ADJOINING PROPERTY PROTECTED FROM DAMAGE.
4. ACCESS TO UTILITIES, FIRE HYDRANTS, STREET LIGHTING, ETC., SHALL REMAIN UNDISTURBED, UNLESS COORDINATED WITH THE RESPECTIVE UTILITY.
5. DO NOT SCALE THIS DRAWING AS IT IS A REPRODUCTION AND SUBJECT TO DISTORTION.
6. THE GENERAL CONTRACTOR SHALL REMOVE ALL DEBRIS FROM THE SITE UPON COMPLETION OF THE PROJECT AND AT LEAST ONCE A WEEK DURING CONSTRUCTION.
7. THE GENERAL CONTRACTOR SHALL KEEP THE AREA OUTSIDE THE "CONSTRUCTION LIMITS" BROOM CLEAN AT ALL TIMES.
8. CONTRACTOR SHALL MAINTAIN AN "AS-BUILT" SET OF DRAWINGS TO RECORD THE EXACT LOCATION OF ALL PIPING PRIOR TO CONCEALMENT.
9. IF DEPARTURES FROM THE SPECIFICATIONS OR DRAWINGS ARE DEEMED NECESSARY BY THE CONTRACTOR, DETAILS OF SUCH DEPARTURES AND REASONS THEREOF SHALL BE GIVEN TO THE OWNER FOR REVIEW, NO DEPARTURES FROM THE CONTRACT DOCUMENT SHALL BE MADE WITHOUT THE PERMISSION OF THE OWNER.
10. CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF ALL UNDERGROUND UTILITIES. THE LOCATION OF ALL EXISTING UTILITIES ARE NOT NECESSARILY SHOWN ON PLANS AND WHERE SHOWN ARE ONLY APPROXIMATE. THE CONTRACTOR SHALL ON HIS INITIATIVE AND AT NO EXTRA COST HAVE LOCATED ALL UNDERGROUND LINES AND STRUCTURES AS NECESSARY.
11. ALL PERMITS RELATIVE TO PROJECT MUST BE OBTAINED, PRIOR TO CONSTRUCTION
12. ALL CONSTRUCTION TO BE IN ACCORDANCE WITH PERMITS ISSUED AND APPLICABLE STATE, COUNTY, AND LOCAL CODES.
13. FOR BUILDING DIMENSIONS, SEE ARCHITECTURAL DRAWINGS.
14. ALL DIMENSIONS AND RADII ARE TO OUTSIDE FACE OF BUILDING OR TO FACE OF CURB UNLESS OTHERWISE NOTED.
15. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL INSPECTIONS, CERTIFICATIONS, EQUIPMENT, ETC., THAT MAY BE REQUIRED.
16. THE ENGINEER AND/OR OWNER DISCLAIM ANY ROLE IN THE CONSTRUCTION MEANS AND METHODS ASSOCIATED WITH THE PROJECT AS SET FORTH IN THESE PLANS.

GENERAL STORM SEWER NOTES

- 1. ALL STORM SEWERS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF WILMINGTON AND THE STATE OF NORTH CAROLINA REQUIREMENTS AS SPECIFIED ON THE DRAWINGS AND IN THE PROJECT SPECIFICATIONS.
2. BEDDING FOR ALL STORM SEWER PIPE SHALL BE AS SPECIFIED ON THE DRAWINGS, PROJECT SPECIFICATIONS, AND MANUFACTURER SPECIFICATIONS.
3. ALL STORM SEWER PIPES TO BE HDPE ADS N-12 OR EQUIVALENT, UNLESS OTHERWISE SPECIFIED.
4. ALL STORM SEWER PIPES SHOWN AS RCP ON THE PLANS SHALL BE REINFORCED CONCRETE PIPE CONFORMING TO ASTM C-76, UNLESS INDICATED OTHERWISE ON PLANS.

Table with columns: SITE AREA DESCRIPTION, STABILIZATION TIME FRAME, STABILIZATION TIME FRAME EXCEPTIONS. Includes rows for Perimeter Dikes, High Quality Water Zones, Slopes Steeper than 3:1, and Slopes 3:1 or Flatter.

EXISTING UTILITY NOTES

- 1. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO VERIFY THE ACTUAL LOCATION AND AVAILABILITY OF ALL EXISTING AND PROPOSED UTILITIES IN THE FIELD PRIOR TO GROUND BREAKING.
2. EXISTING UTILITIES AND STRUCTURES SHOWN, BOTH UNDERGROUND AND ABOVE GROUND, ARE BASED ON A FIELD SURVEY AND THE BEST AVAILABLE RECORD DRAWINGS. THE CONTRACTOR SHALL FIELD VERIFY FIELD CONDITIONS PRIOR TO BEGINNING RELATED CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED TO THE OWNER'S REPRESENTATIVE IMMEDIATELY.

UTILITY CONTACTS:

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

NOTICE REQUIRED

ALL EXISTING UNDERGROUND UTILITIES SHALL BE PHYSICALLY LOCATED BY CONTRACTOR PRIOR TO THE BEGINNING OF ANY CONSTRUCTION IN THE VICINITY OF SAID UTILITIES.

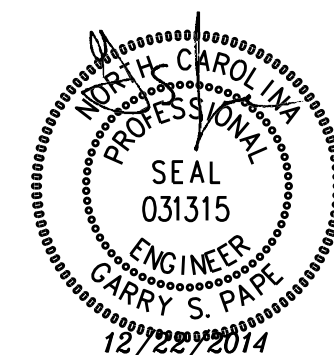
CONTACT "CAROLINA ONE CALL" AT 1-800-632-4949

EMERGENCY DIAL 911 POLICE - FIRE - RESCUE

Approved Construction Plan form with fields for Name and 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.

City of Wilmington Professional Seal form with fields for Date and Permit #.



Revision table with columns: No., Revision, Date, By.

Design and License information table with fields: Designer (GSP), Scale, Drawn By (GSP), Date (December 2014), License # (P-0718), Job No. (2014-0006).

Wilmington New Hanover County North Carolina

BELLE MEADE APARTMENTS

GENERAL NOTES

PREPARED FOR: BELLE MEADE DEVELOPMENT PARTNERS, LLC 6626-C GORDON ROAD WILMINGTON, NC 28411 910-799-3006

GSP CONSULTING, PLLC ENGINEERING

6626 Gordon Road Unit C Wilmington, North Carolina 28411 tel: 910-442-7870 fax: 910-799-6659

Sheet No.

C-1



10" DRAINAGE R/W

NOW OR FORMERLY CAROL A. SWENSON-BOOK 1224 PAGE 0913

NOW OR FORMERLY BUR L. RUSS, ETUX-BOOK 0752 PAGE 0011

SECTION OF LOT 4

TRACT "B" 6.48± ACRES (FUTURE DEVELOPMENT)

TRACT 7 BIDDLE SUBDIVISION NOW OR FORMERLY LAWRENCE LAWSON-BOOK 0337 PAGE 0209 PARCEL ID No. R07100-003-009-000 ZONE R - 15

LOT 3 BELLE MEADE VILLAGE PHASE 2 MAP BOOK PAGE

LOT 2 BELLE MEADE VILLAGE PHASE 2 MAP BOOK PAGE

LOT 1 BELLE MEADE VILLAGE PHASE 2 MAP BOOK PAGE

LOT 40 BELLE MEADE VILLAGE PHASE 1 MAP BOOK PAGE

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.

WILMINGTON NORTH CAROLINA

Public Services • Engineering Division

APPROVED STORMWATER MANAGEMENT PLAN

Date: _____ Permit # _____

Signed: _____

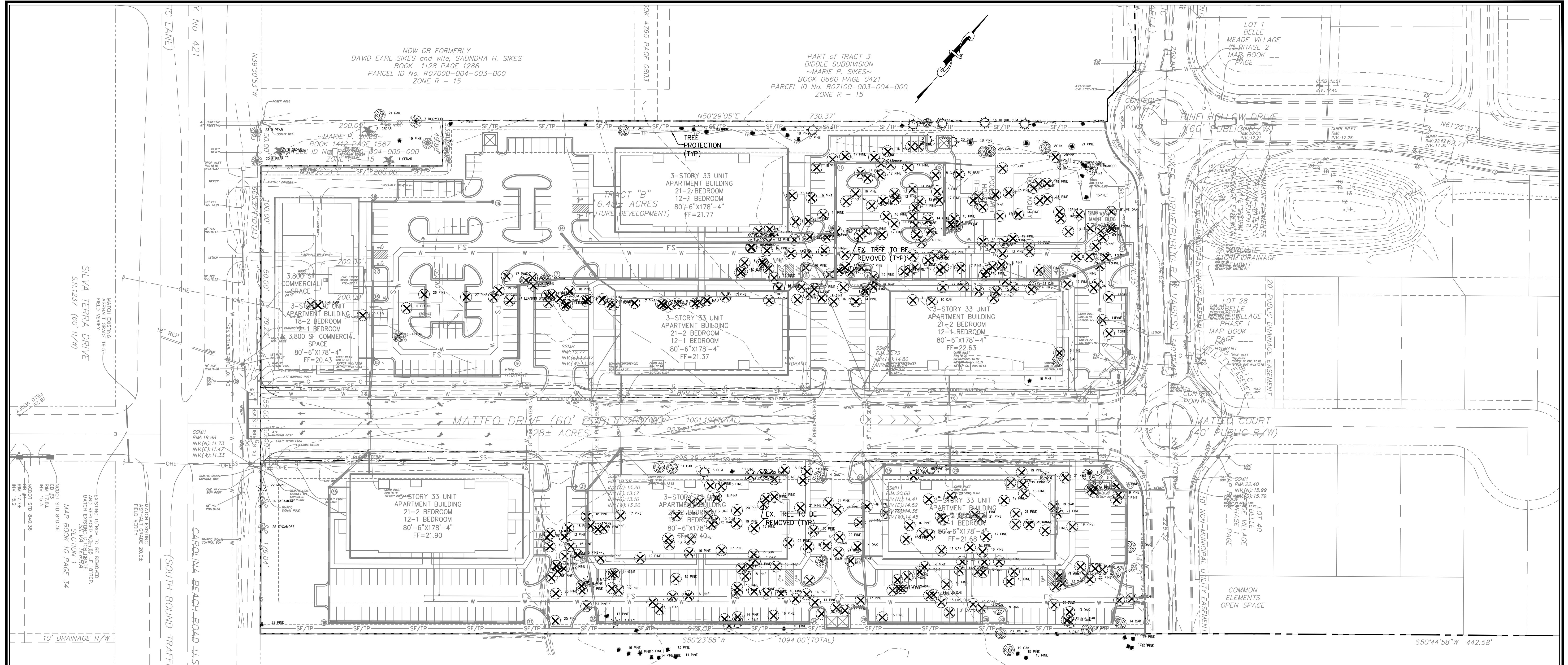
GRAPHIC SCALE

1 inch = 50 ft.

Sheet No.

C-2

No.	Revision	Date	By	Designer	Scale	Project Name	Location	Prepared For	Sheet No.
				GSP	1" = 50'	BELLE MEADE APARTMENTS	Wilmington, North Carolina	BELLE MEADE DEVELOPMENT PARTNERS, LLC 6626-C GORDON ROAD WILMINGTON, NC 28411 910-799-3006	GSP CONSULTING, PLLC ENGINEERING
				GSP	December 2014	EXISTING CONDITIONS	New Hanover County, North Carolina		C-2
				P-0718	2014-0006				



TREES TO BE SAVED

4" DOGWOOD	1	4" MAG	2
6" DOGWOOD	1	6" MAG	1
7" DOGWOOD	1	8" CHERRY	1
8" GUM	1	8" OAK	6
10" GUM	1	9" OAK	1
11" GUM	1	11" OAK	3
12" GUM	1	12" OAK	1
16" GUM	2	13" OAK	1
23" GUM	2	14" OAK	5
16" B PEAR	1	15" OAK	1
20" B PEAR	1	16" OAK	1
23" B PEAR	1	18" OAK	1
12" PINE	2	19" OAK	1
13" PINE	3	20" OAK	1
14" PINE	3	21" OAK	1
15" PINE	3	22" OAK	1
16" PINE	10	36" OAK	1
17" PINE	8	6" CEDAR	1
18" PINE	8	11" CEDAR	1
19" PINE	2	21" CEDAR	1
20" PINE	1	22" MAPLE	1
21" PINE	3	26" MAPLE	1
22" PINE	1	14" SYCAMORE	1
24" PINE	1	25" SYCAMORE	1

TRACT 7
BIDDLE SUBDIVISION
NOW OR FORMERLY
LAWRENCE LAWSON
BOOK 0337 PAGE 0209
PARCEL ID No. R07100-003-009-000
ZONE R - 15

TREES TO BE REMOVED

6" MAG	2	4" DOGWOOD	1
7" MAG	1	8" DOGWOOD	1
16" MAG	1	8" OAK	6
7" CHERRY	1	9" OAK	4
11" PECAN	1	10" OAK	4
18" PECAN	1	11" OAK	6
17" POPLAR	1	12" OAK	5
8" SYCAMORE	1	13" OAK	5
24" SYCAMORE	1	14" OAK	4
12" PINE	13	15" OAK	5
13" PINE	32	16" OAK	1
14" PINE	47	17" OAK	1
15" PINE	41	18" OAK	1
16" PINE	59	19" OAK	1
17" PINE	35	27" OAK	1
18" PINE	17	31" OAK	1
19" PINE	15	35" OAK	1
20" PINE	14	53" OAK	1
21" PINE	9	9" GUM	2
22" PINE	3	11" GUM	1
23" PINE	4	14" GUM	2
24" PINE	2	15" GUM	3
25" PINE	3	16" GUM	1
26" PINE	1	17" GUM	1
27" PINE	3		

NOW OR FORMERLY
CAROL A. SWENSON
BOOK 1224 PAGE 0913

NOW OR FORMERLY
WILBUR L. RUSS, ETUX
BOOK 0752 PAGE 0011

PORTION OF LOT 4
GEORGE L. BIDDLE
PROPERTY
THIS AREA T
CAROLINA BEACH
ROAD WILL BE
REZONED TO O + I

OR FORMERLY
DEV. S. CLARK

Approved Construction Plan

Name _____ Date _____

Planning _____

Traffic _____

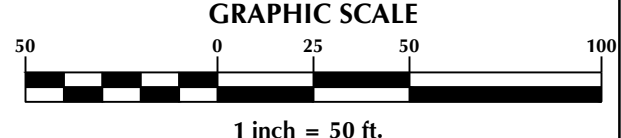
Fire _____

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

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

Date: _____ Permit # _____

Signed: _____



No.	Revision	Date	By

Designer	GSP	Scale	1" = 50'
Drawn By	GSP	Date	December 2014
License #	P-0718	Job No.	2014-0006

BELLE MEADE APARTMENTS

Wilmington New Hanover County North Carolina

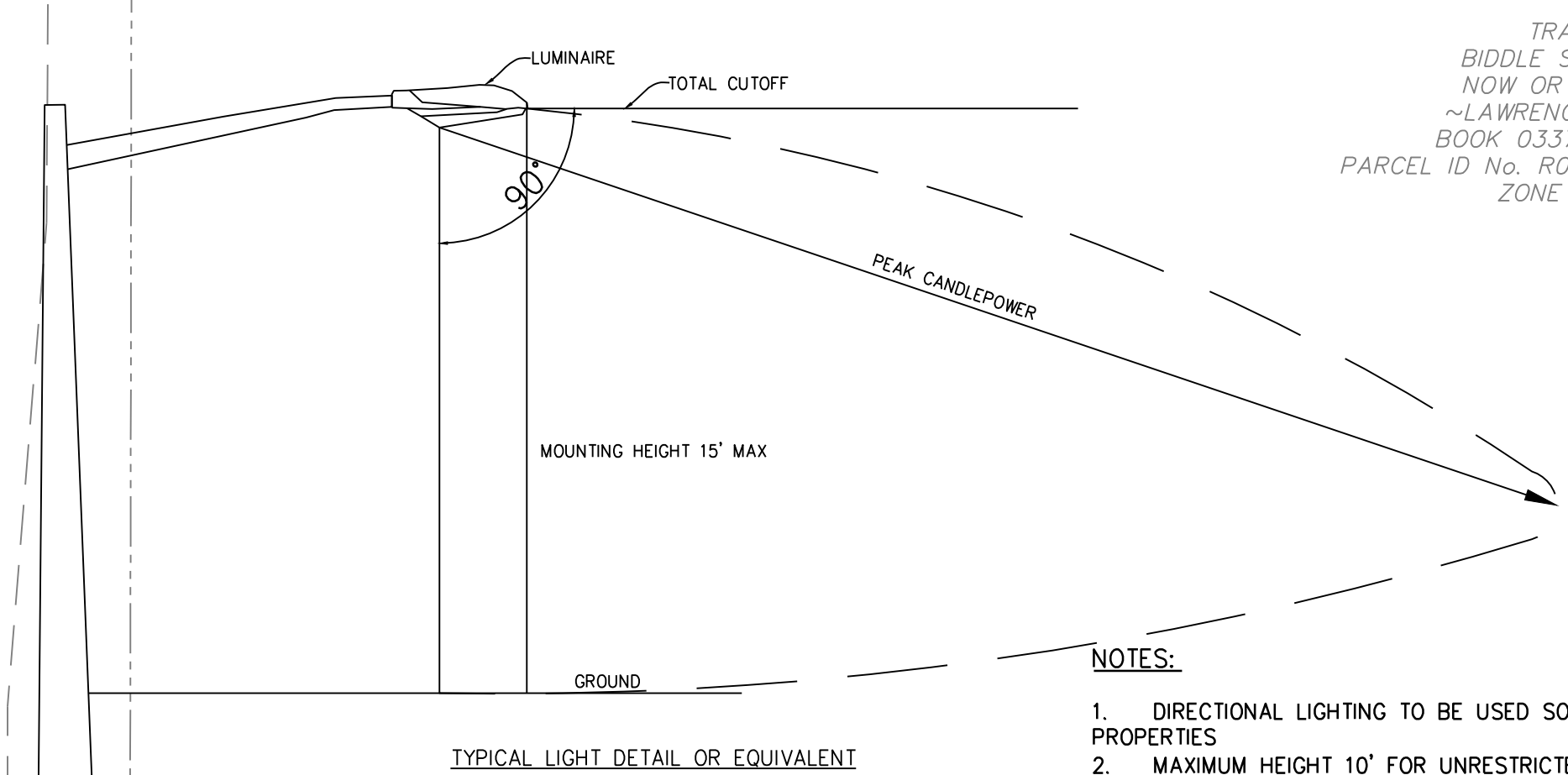
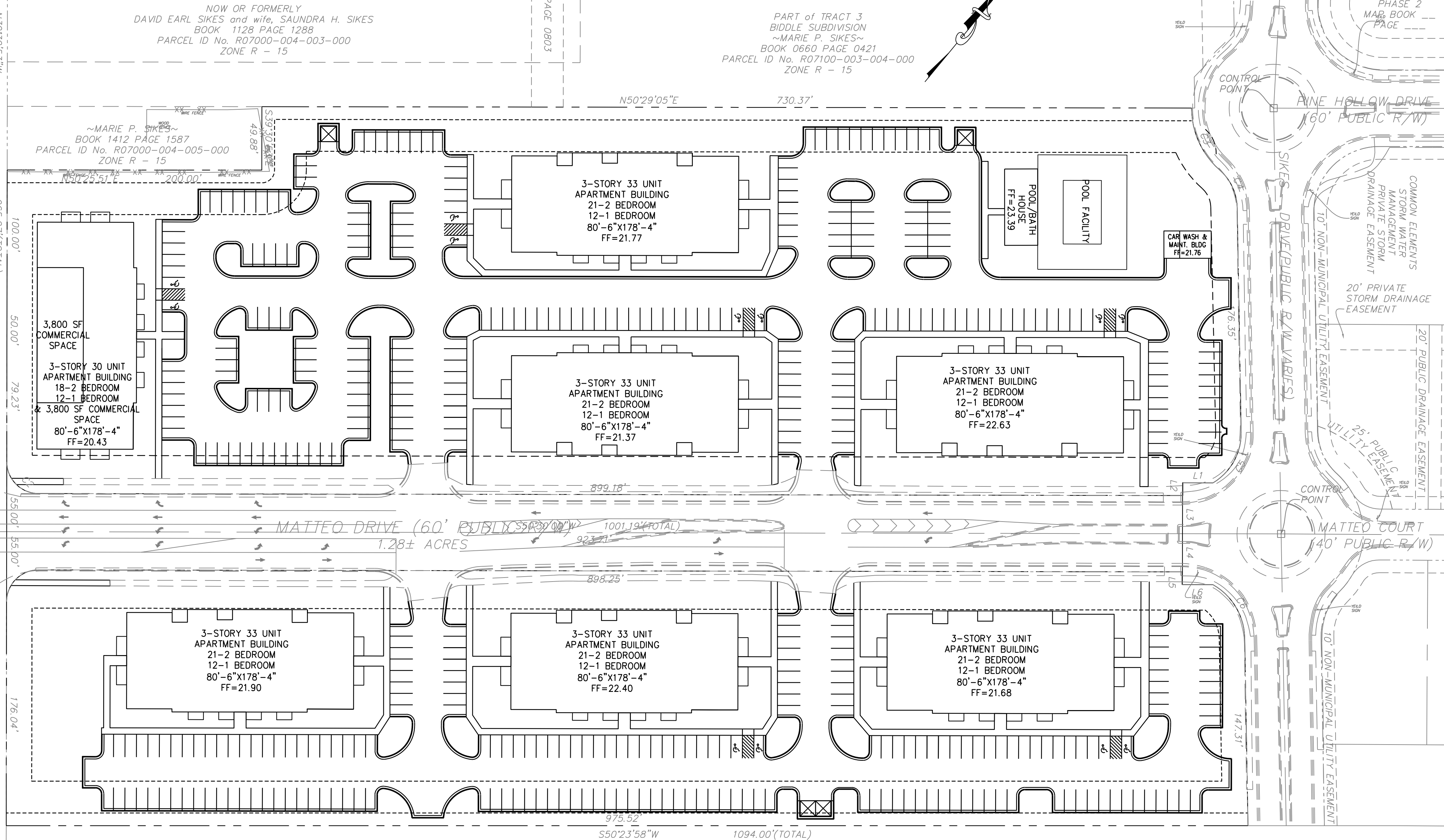
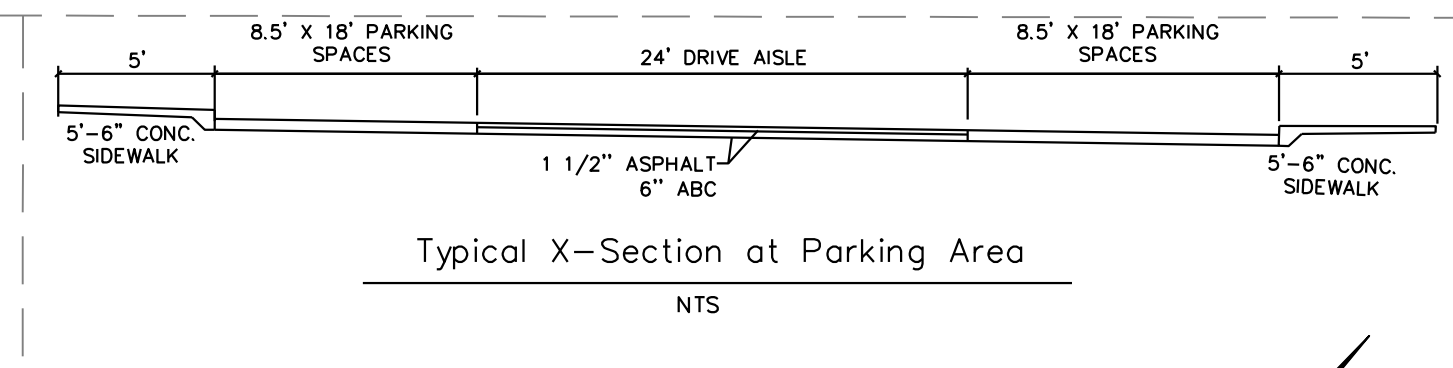
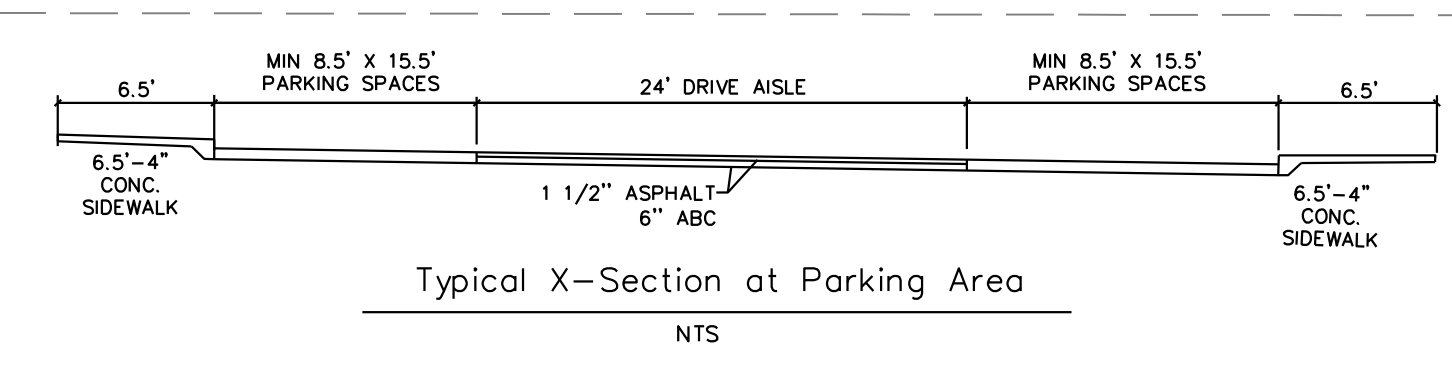
SITE INVENTORY PLAN

PREPARED FOR:
BELLE MEADE DEVELOPMENT PARTNERS, LLC
6626-C GORDON ROAD
WILMINGTON, NC 28411
910-799-3006

GSP CONSULTING, PLLC
ENGINEERING

6626 Gordon Road Unit C Wilmington, North Carolina 28411 tel: 910-442-7870 fax: 910-799-6659

Sheet No.
C-2.1



- NOTES:**
1. DIRECTIONAL LIGHTING TO BE USED SO AS NOT TO AFFECT ADJACENT PROPERTIES
 2. MAXIMUM HEIGHT 10' FOR UNRESTRICTED LIGHTING AND 15' FOR 90° CUTOFF LIGHTING (PER SECTION 18-213.2 (a) (8) OF CITY OF WILMINGTON LAND DEVELOPMENT CODE.

TRANSPORTATION NOTES:

1. ALL PAVEMENT MARKINGS IN PUBLIC RIGHTS-OF-WAY & FOR DRIVEWAY ARE TO BE THERMOPLASTIC & MEET CITY AND/OR NCDOT STANDARDS.
2. 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.
3. CONTACT TRAFFIC ENGINEERING, AT 341-7888 TO ENSURE THAT ALL TRAFFIC SIGNAL FACILITIES AND EQUIPMENT ARE SHOWN ON THE PLAN. ADD A NOTE TO CALL TRAFFIC ENGINEERING FORTY-EIGHT (48) HOURS PRIOR TO ANY EXCAVATION IN THE R/W.
4. ANY BROKEN OR MISSING SIDEWALK PANELS, DRIVEWAY PANELS AND CURBING WILL BE REPLACED.
5. CONTACT KAREN DIXON AT 341-7888 TO DISCUSS SITE LIGHTING OPTIONS. THE LANDSCAPING PLAN WILL BE NEEDED TO DETERMINING SITE LIGHT LOCATIONS.
6. TACTILE WARNING MATS TO BE INSTALLED AT ALL WHEELCHAIR RAMPS.
7. ALL TRAFFIC CONTROL SIGNS AND MARKINGS OFF THE RIGHT-OF-WAY ARE TO BE MAINTAINED BY THE PROPERTY OWNER IN ACCORDANCE WITH MUTCD STANDARDS.
8. ALL PARKING STALL MARKINGS AND LANE ARROWS WITHIN THE PARKING AREAS SHALL BE WHITE.
9. A UTILITY CUT PERMIT IS REQUIRED FOR EACH OPEN CUT OF A CITY STREET. CALL 341-5888 FOR MORE DETAILS. IN CERTAIN CASES AN ENTIRE RESURFACING OF THE AREA BEING OPEN CUT MAY BE REQUIRED.
10. INSTALL REFLECTORS PER CITY AND NCDOT STANDARDS. TRAFFIC ENGINEERING MUST APPROVE OF PAVEMENT MARKING LAYOUT PRIOR TO ACTUAL STRIPING.
11. A LANDSCAPING PLAN INDICATING THE LOCATION OF REQUIRED STREET TREES SHALL BE SUBMITTED TO THE CITY OF WILMINGTON TRAFFIC ENGINEERING DIVISION AND PARKS AND RECREATION DEPARTMENT FOR REVIEW AND APPROVAL PRIOR TO THE RECORDING OF THE FINAL PLAT.
12. CONTACT TRAFFIC ENGINEERING AT 341-7888 FORTY-EIGHT HOURS PRIOR TO ANY EXCAVATION IN THE RIGHT OF WAY.

Approved Construction Plan

Name _____ Date _____

Planning _____

Traffic _____

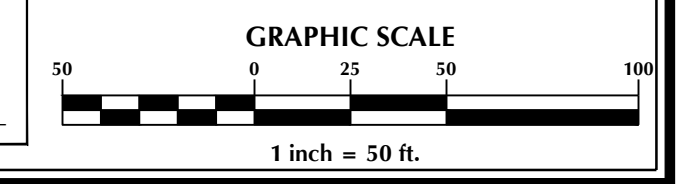
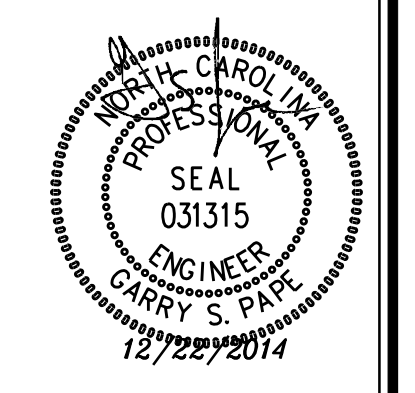
Fire _____

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

Date: _____ Permit # _____

Signed: _____

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



No.	Revision	Date	By

Designer	GSP	Scale	1" = 50'
Drawn By	GSP	Date	December 2014
License #	P-0718	Job No.	2014-0006

BELLE MEADE APARTMENTS

Wilmington New Hanover County North Carolina

OVERALL SITE PLAN

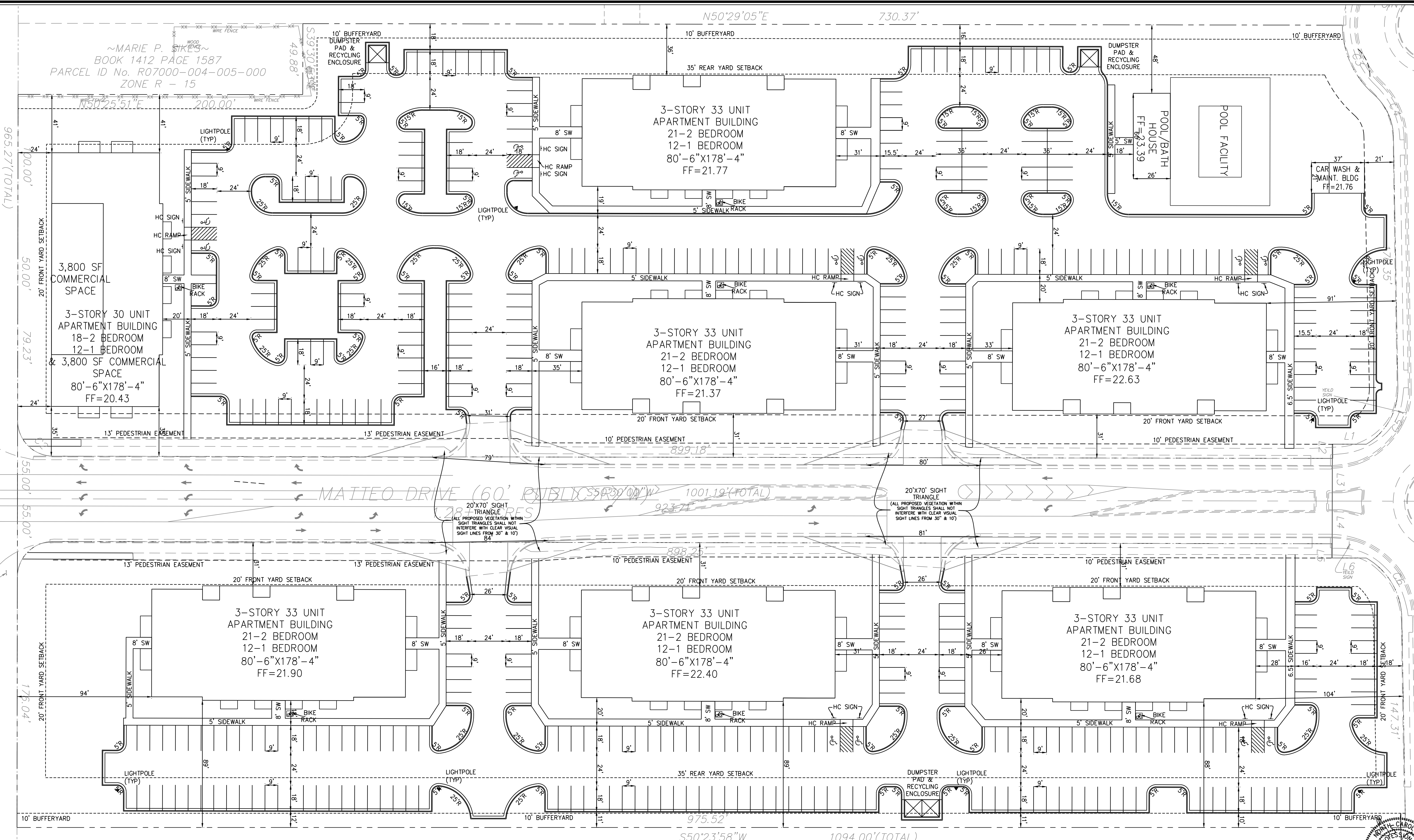
PREPARED FOR:
BELLE MEADE DEVELOPMENT PARTNERS, LLC
6626-C GORDON ROAD
WILMINGTON, NC 28411
910-799-3006

GSP CONSULTING, PLLC
ENGINEERING

6626 Gordon Road Unit C Wilmington, North Carolina 28411 tel: 910-442-7870 fax: 910-799-6659

Sheet No.
C-3.1

~MARIE P. SIKES~
 BOOK 1412 PAGE 1587
 PARCEL ID No. R07000-004-005-000
 ZONE R - 15



MATTEO DRIVE (60' PUBLIC 550'230'00"W)

TRACT 7
 BIDDLE SUBDIVISION

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 _____

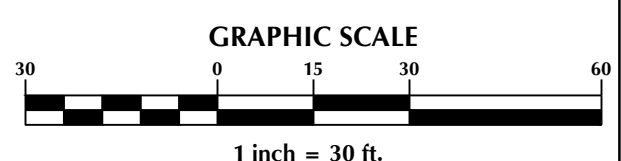
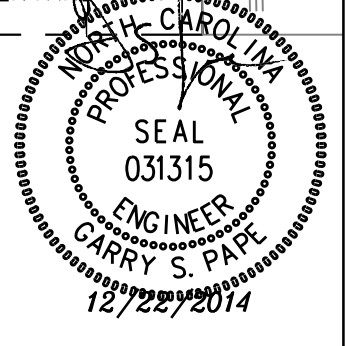
Traffic _____

Fire _____

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

Date: _____ Permit # _____

Signed: _____



No.	Revision	Date	By

Designer GSP	Scale 1" = 30'
Drawn By GSP	Date December 2014
License # P-0718	Job No. 2014-0006

BELLE MEADE APARTMENTS
 Wilmington New Hanover County North Carolina

DETAILED SITE PLAN

PREPARED FOR:
 BELLE MEADE DEVELOPMENT PARTNERS, LLC
 6626-C GORDON ROAD
 WILMINGTON, NC 28411
 910-799-3006

GSP CONSULTING, PLLC
 ENGINEERING
 6626 Gordon Road Unit C Wilmington, North Carolina 28411 tel: 910-442-7870 fax: 910-799-6659

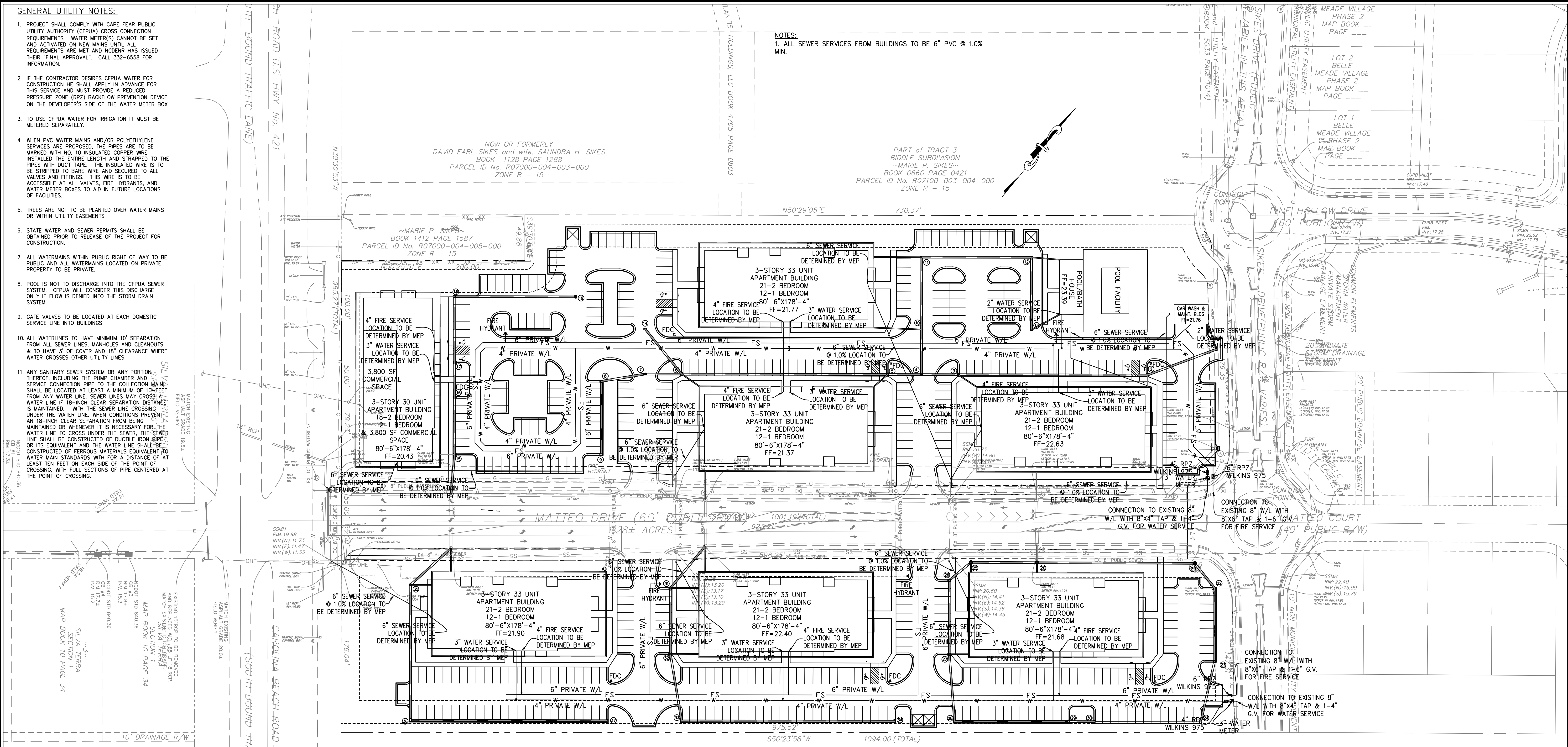
Sheet No.
C-3.2

GENERAL UTILITY NOTES:

- PROJECT SHALL COMPLY WITH CAPE FEAR PUBLIC UTILITY AUTHORITY (CFPUA) CROSS CONNECTION REQUIREMENTS. WATER METER(S) CANNOT BE SET AND ACTIVATED ON NEW MAINS UNTIL ALL REQUIREMENTS ARE MET AND NCDNR HAS ISSUED THEIR "FINAL APPROVAL". CALL 332-6558 FOR INFORMATION.
- IF THE CONTRACTOR DESIRES CFPUA 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.
- TO USE CFPUA WATER FOR IRRIGATION IT MUST BE METERED SEPARATELY.
- WHEN PVC WATER MAINS AND/OR POLYETHYLENE SERVICES ARE PROPOSED, THE PIPES ARE TO BE MARKED WITH NO. 10 INSULATED COPPER WIRE INSTALLED THE ENTIRE LENGTH AND STRAPPED TO THE PIPES WITH DUCT TAPE. THE INSULATED WIRE IS TO BE STRIPPED TO BARE WIRE AND SECURED TO ALL VALVES AND FITTINGS. THIS WIRE IS TO BE ACCESSIBLE AT ALL VALVES, FIRE HYDRANTS, AND WATER METER BOXES TO AID IN FUTURE LOCATIONS OF FACILITIES.
- TREES ARE NOT TO BE PLANTED OVER WATER MAINS OR WITHIN UTILITY EASEMENTS.
- STATE WATER AND SEWER PERMITS SHALL BE OBTAINED PRIOR TO RELEASE OF THE PROJECT FOR CONSTRUCTION.
- ALL WATERMANS WITHIN PUBLIC RIGHT OF WAY TO BE PUBLIC AND ALL WATERMANS LOCATED ON PRIVATE PROPERTY TO BE PRIVATE.
- POOL IS NOT TO DISCHARGE INTO THE CFPUA SEWER SYSTEM. CFPUA WILL CONSIDER THIS DRAINAGE ONLY IF FLOW IS DENIED INTO THE STORM DRAIN SYSTEM.
- GATE VALVES TO BE LOCATED AT EACH DOMESTIC SERVICE LINE INTO BUILDINGS.
- ALL WATERLINES TO HAVE MINIMUM 10' SEPARATION FROM ALL SEWER LINES, MANHOLES AND CLEANOUTS & TO HAVE 3" OF COVER AND 18" CLEARANCE WHERE WATER CROSSES OTHER UTILITY LINES.
- ANY SANITARY SEWER SYSTEM OR ANY PORTION THEREOF, INCLUDING THE PUMP CHAMBER AND SERVICE CONNECTION PIPE TO THE COLLECTION MAINS SHALL BE LOCATED AT LEAST A MINIMUM OF 10'-FEET FROM ANY WATER LINE. SEWER LINES MAY CROSS WATER LINE IF 18-INCH CLEAR SEPARATION DISTANCE IS MAINTAINED. WITH THE SEWER LINE CROSSING UNDER THE WATER LINE. WHEN CONDITIONS PRESENT AN 18-INCH CLEAR SEPARATION FROM BEING MAINTAINED OR WHENEVER IT IS NECESSARY FOR THE WATER LINE TO CROSS UNDER THE SEWER, THE SEWER LINE SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE OR ITS EQUIVALENT AND THE WATER LINE SHALL BE CONSTRUCTED OF FERROUS MATERIALS EQUIVALENT TO WATER MAIN STANDARDS WITH A DISTANCE OF AT LEAST TEN FEET ON EACH SIDE OF THE POINT OF CROSSING, WITH FULL SECTIONS OF PIPE CENTERED AT THE POINT OF CROSSING.

NOTES:

- ALL SEWER SERVICES FROM BUILDINGS TO BE 6" PVC @ 1.0% MIN.



FIRE DEPARTMENT NOTES:

- HYDRANT MUST BE WITHIN 150' OF THE FDC.
- THE FDC MUST BE WITHIN 40' OF FIRE APPARATUS PLACEMENT.
- LANDSCAPING OR PARKING CANNOT BLOCK OR IMPEDE THE FDC OR FIRE HYDRANTS. A 3-FOOT CLEAR SPACE SHALL BE MAINTAINED AROUND THE CIRCUMFERENCE OF THE HYDRANT AND FDC.
- HYDRANTS MUST BE LOCATED WITHIN 8' OF THE CURB.
- NEW HYDRANTS MUST BE AVAILABLE FOR USE PRIOR TO CONSTRUCTION OF THE BUILDING(S).
- CONTRACTOR SHALL MAINTAIN AN ALL WEATHER ACCESS FOR EMERGENCY VEHICLES AT ALL TIMES DURING CONSTRUCTION.
- UNDERGROUND FIRE LINE AND PRIVATE WATER MAINS MUST BE PERMITTED AND INSPECTED BY THE WILMINGTON FIRE DEPARTMENT FROM THE PRIVATE RIGHT-OF-WAY TO THE BUILDING. CONTACT THE WILMINGTON FIRE DEPARTMENT DIVISION OF FIRE AND LIFE SAFETY AT 910-343-0696 FOR ADDITIONAL INFORMATION.

CFPUA STANDARD SEWER NOTES

- SEWER GUARDS REQUIRED AT ALL MANHOLES. STAINLESS STEEL SEWER GUARDS REQUIRED AT MANHOLES LOCATED IN TRAFFIC AREAS.
- SERVICES SHALL BE PERPENDICULAR TO MAIN AND TERMINATE AT R/W LINE. SERVICES IN CUL-DE-SACS ARE REQUIRED TO BE PERPENDICULAR, OR MUST ORIGINATE IN 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.
- 10' UTILITIES EASEMENT PROVIDED ALONG THE FRONTAGE OF ALL LOTS AND AS SHOWN.
- NO FLEXIBLE COUPLINGS SHALL BE USED.
- ALL CLEANOUTS TO BE LOCATED IN THE CENTER OF THE LOT.

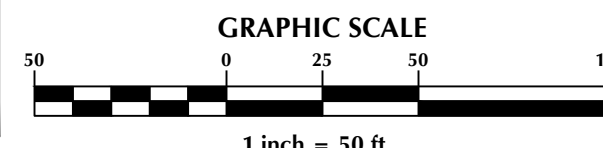
For each open utility cut of City streets, a \$325 permit shall be required from the City prior to occupancy and/or project acceptance.

Approved Construction Plan

Name	Date
Planning	
Traffic	
Fire	



APPROVED STORMWATER MANAGEMENT PLAN
 Date: _____ Permit # _____
 Signed: _____



No.	Revision	Date	By

Designer	GSP	Scale	1" = 50'
Drawn By	GSP	Date	December 2014
License #	P-0718	Job No.	2014-0006

BELLE MEADE APARTMENTS

Wilmington New Hanover County North Carolina

UTILITY PLAN

PREPARED FOR:
 BELLE MEADE DEVELOPMENT PARTNERS, LLC
 6626-C GORDON ROAD
 WILMINGTON, NC 28411
 910-799-3006

GSP CONSULTING, PLLC
 ENGINEERING

6626 Gordon Road Unit C Wilmington, North Carolina 28411 tel: 910-442-7870 fax: 910-799-6659

Sheet No.
C-4

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.

- AS-BUILT DRAWINGS FOR ALL STORMWATER MANAGEMENT FACILITIES SHALL BE SUBMITTED TO THE CITY OF WILMINGTON ENGINEERING DIVISION.
- 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.

DRAINAGE NOTES

- ALL IMPERVIOUS SURFACES TO DRAIN TO PROPOSED WET DETENTION BASINS.

GRADING NOTES:

- ALL STORM INLETS WITHIN DISTURBANCE AREA TO HAVE EITHER INLET PROTECTION OR A SILT SACK INSTALLED SEE DETAILS ON SHEET C-9.

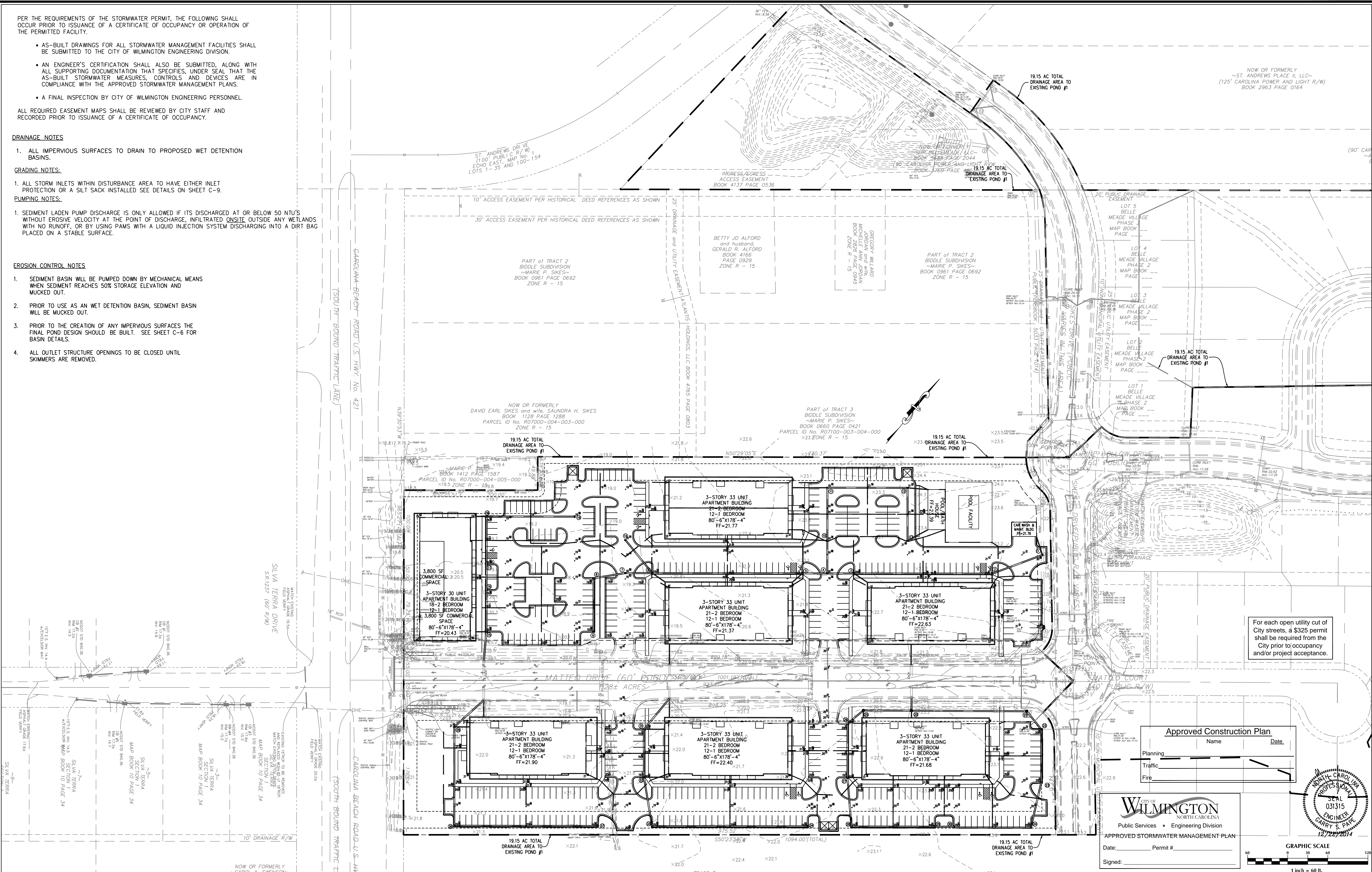
PUMPING NOTES:

- SEDIMENT LADEN PUMP DISCHARGE IS ONLY ALLOWED IF ITS DISCHARGED AT OR BELOW 50 NTU'S WITHOUT EROSION VELOCITY AT THE POINT OF DISCHARGE, INFILTRATED ONSITE OUTSIDE ANY WETLANDS WITH NO RUNOFF, OR BY USING PAMS WITH A LIQUID INJECTION SYSTEM DISCHARGING INTO A DIRT BAG PLACED ON A STABLE SURFACE.

EROSION CONTROL NOTES

- SEDIMENT BASIN WILL BE PUMPED DOWN BY MECHANICAL MEANS WHEN SEDIMENT REACHES 50% STORAGE ELEVATION AND MUCKED OUT.
- PRIOR TO USE AS AN WET DETENTION BASIN, SEDIMENT BASIN WILL BE MUCKED OUT.
- PRIOR TO THE CREATION OF ANY IMPERVIOUS SURFACES THE FINAL POND DESIGN SHOULD BE BUILT. SEE SHEET C-6 FOR BASIN DETAILS.
- ALL OUTLET STRUCTURE OPENINGS TO BE CLOSED UNTIL SKIMMERS ARE REMOVED.

NOW OR FORMERLY
~ST. ANDREWS PLACE II, LLC~
(125' CAROLINA POWER AND LIGHT R/W)
BOOK 2963 PAGE 0164



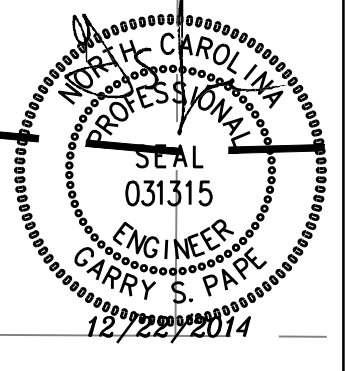
For each open utility cut of City streets, a \$325 permit shall be required from the City prior to occupancy and/or project acceptance.

Approved Construction Plan
Name _____ Date _____

Planning _____
Traffic _____
Fire _____

City of WILMINGTON
NORTH CAROLINA
Public Services • Engineering Division
APPROVED STORMWATER MANAGEMENT PLAN
Date: _____ Permit # _____
Signed: _____

GRAPHIC SCALE
1 inch = 60 ft.



No.	Revision	Date	By

Designer: GSP
Scale: 1" = 60'
Drawn By: GSP
Date: December 2014
License #: P-0718
Job No.: 2014-0006

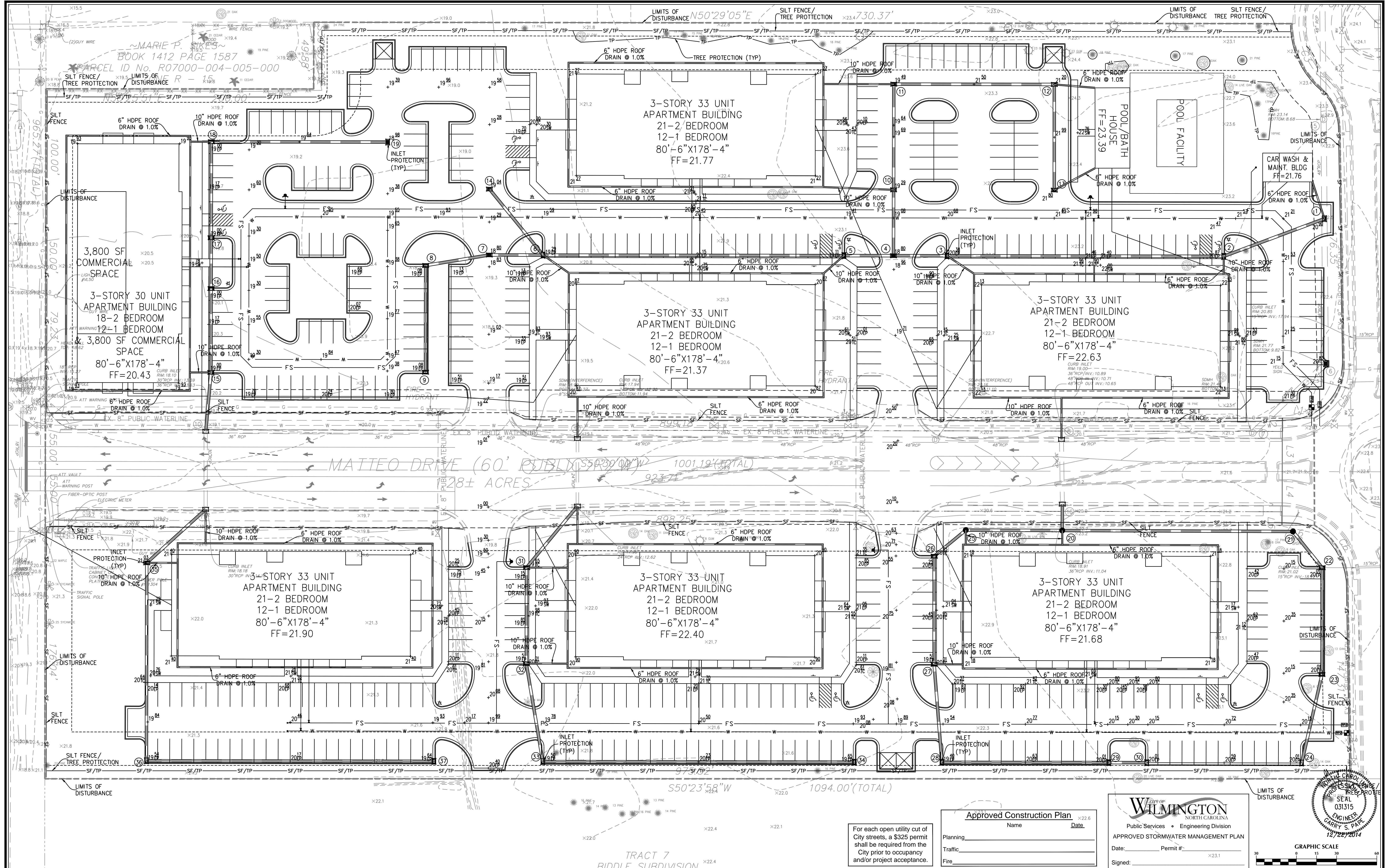
BELLE MEADE APARTMENTS
Wilmington New Hanover County North Carolina

OVERALL DRAINAGE PLAN

PREPARED FOR:
BELLE MEADE DEVELOPMENT PARTNERS, LLC
6626-C GORDON ROAD
WILMINGTON, NC 28411
910-799-3006

GSP CONSULTING, PLLC
ENGINEERING
6626 Gordon Road Unit C Wilmington, North Carolina 28411 tel: 910-442-7870 fax: 910-799-6659

Sheet No.
C-5.1



No.	Revision	Date	By

Designer: GSP
 Scale: 1" = 30'
 Drawn By: GSP
 Date: December 2014
 License #: P-0718
 Job No.: 2014-0006

BELLE MEADE APARTMENTS
 Wilmington New Hanover County North Carolina

GRADING, DRAINAGE & EROSION & SEDIMENT CONTROL PLAN

PREPARED FOR:
 BELLE MEADE DEVELOPMENT PARTNERS, LLC
 6626-C GORDON ROAD
 WILMINGTON, NC 28411
 910-799-3006

GSP CONSULTING, PLLC
 ENGINEERING
 6626 Gordon Road Unit C Wilmington, North Carolina 28411 tel: 910-442-7870 fax: 910-799-6659

Sheet No. **C-5.2**

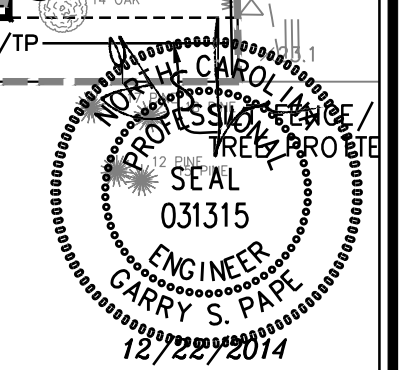
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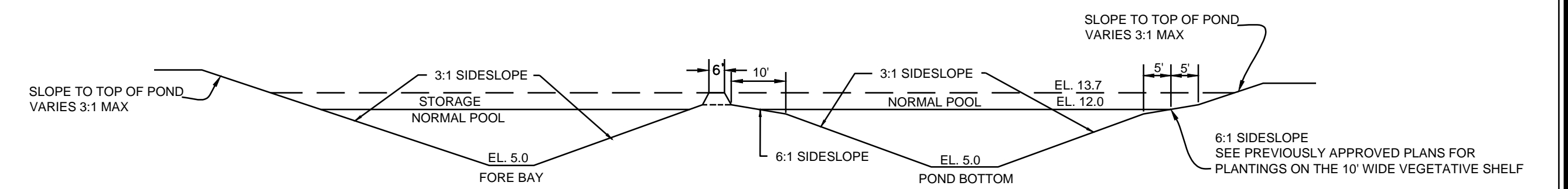
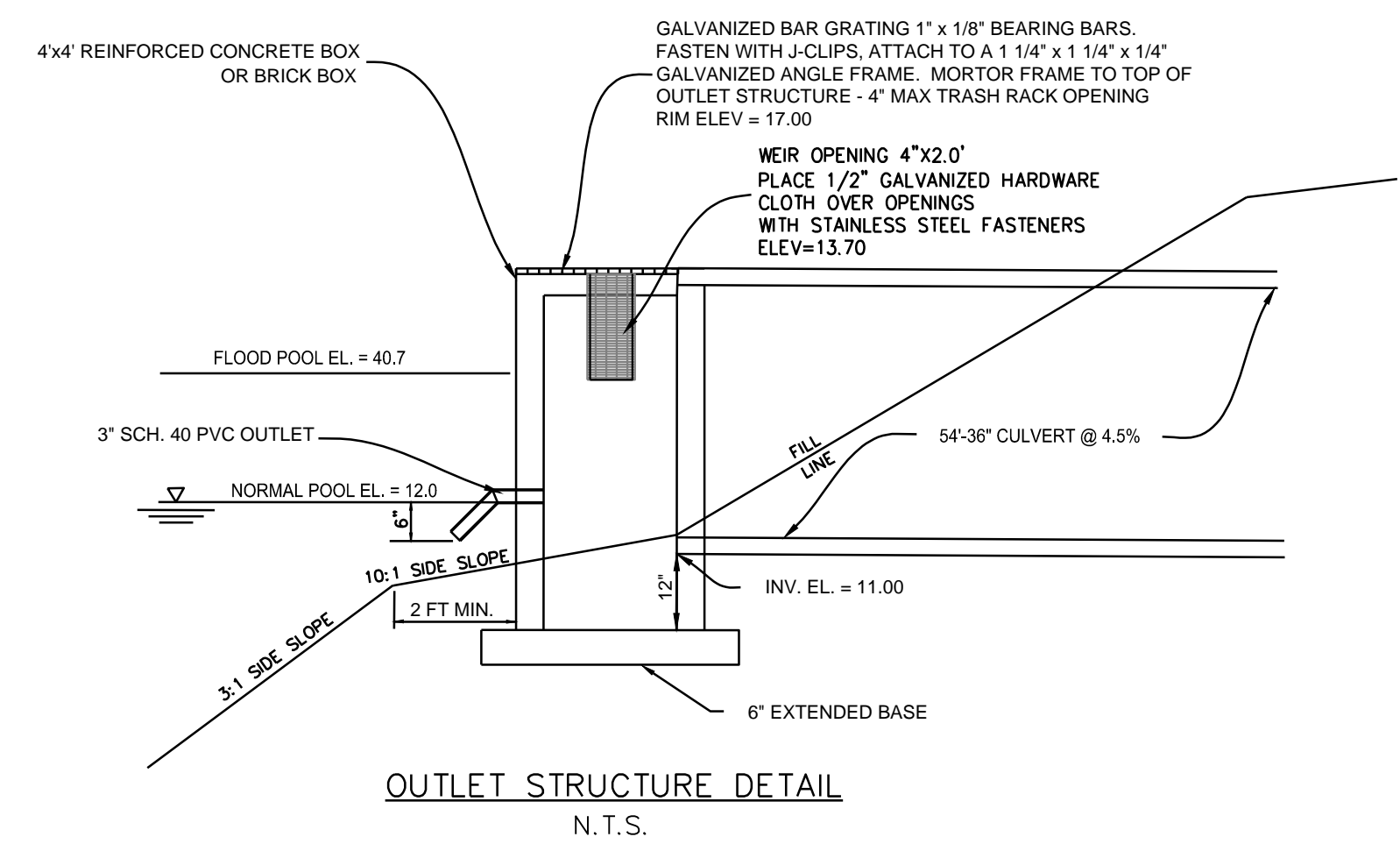
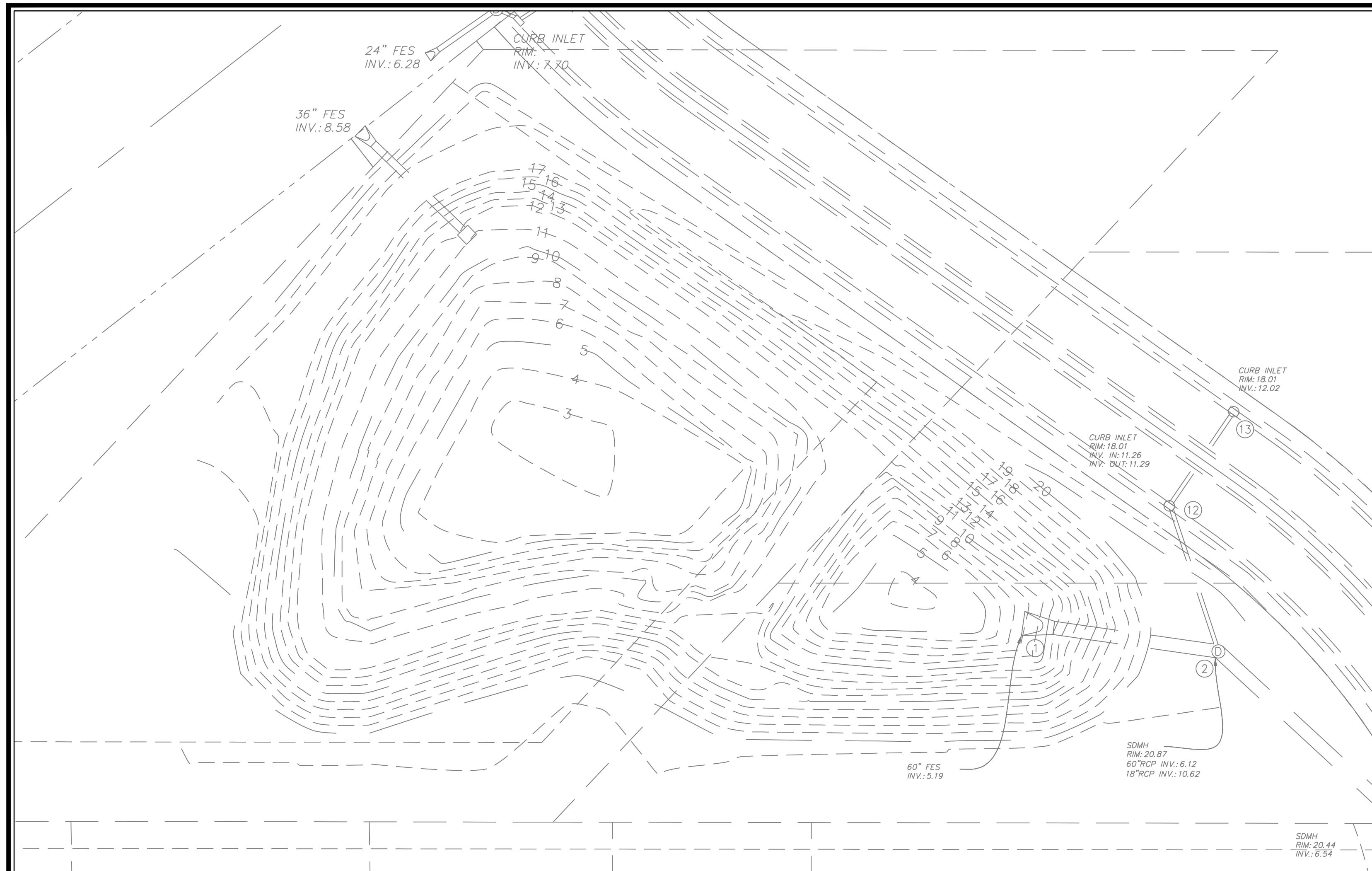
Planning	Name	Date

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

Date: _____ Permit #: _____
 Signed: _____

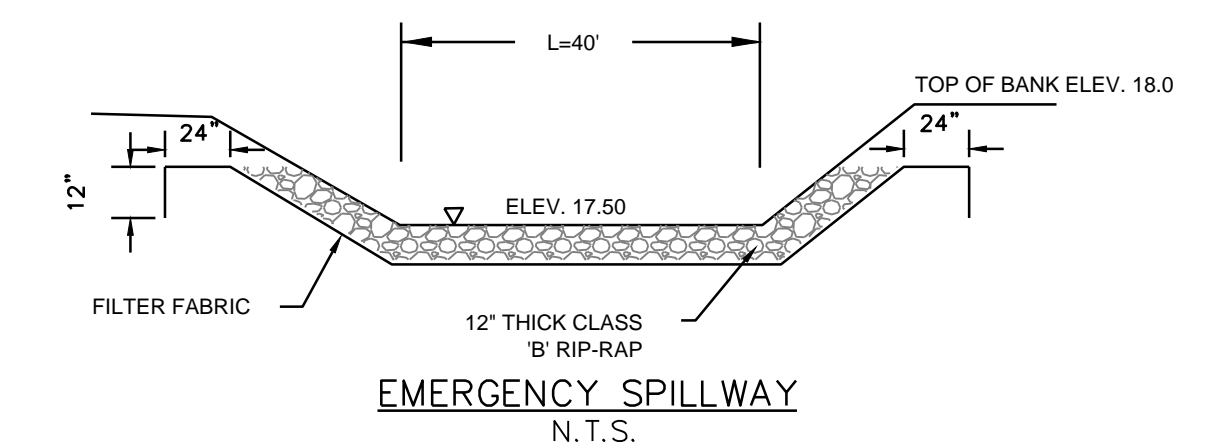
GRAPHIC SCALE
 1 inch = 30 ft.





NORMAL POOL ELEVATION	EMERGENCY OUTLET	TOP OF BOX	DENR TEMP POOL	BOTTOM OF FOREBAY	BOTTOM OF POND	TOP OF BANK
12.00	17.50	17.00	13.70	5.00	5.00	18.00

POND CROSS-SECTION
N.T.S.



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 _____

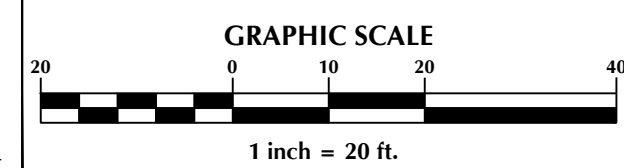
Fire _____



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

Date: _____ Permit # _____

Signed: _____



No.	Revision	Date	By

Designer	GSP	Scale	1" = 20'
Drawn By	GSP	Date	December 2014
License #	P-0718	Job No.	2014-0006

BELLE MEADE APARTMENTS
Wilmington New Hanover County North Carolina

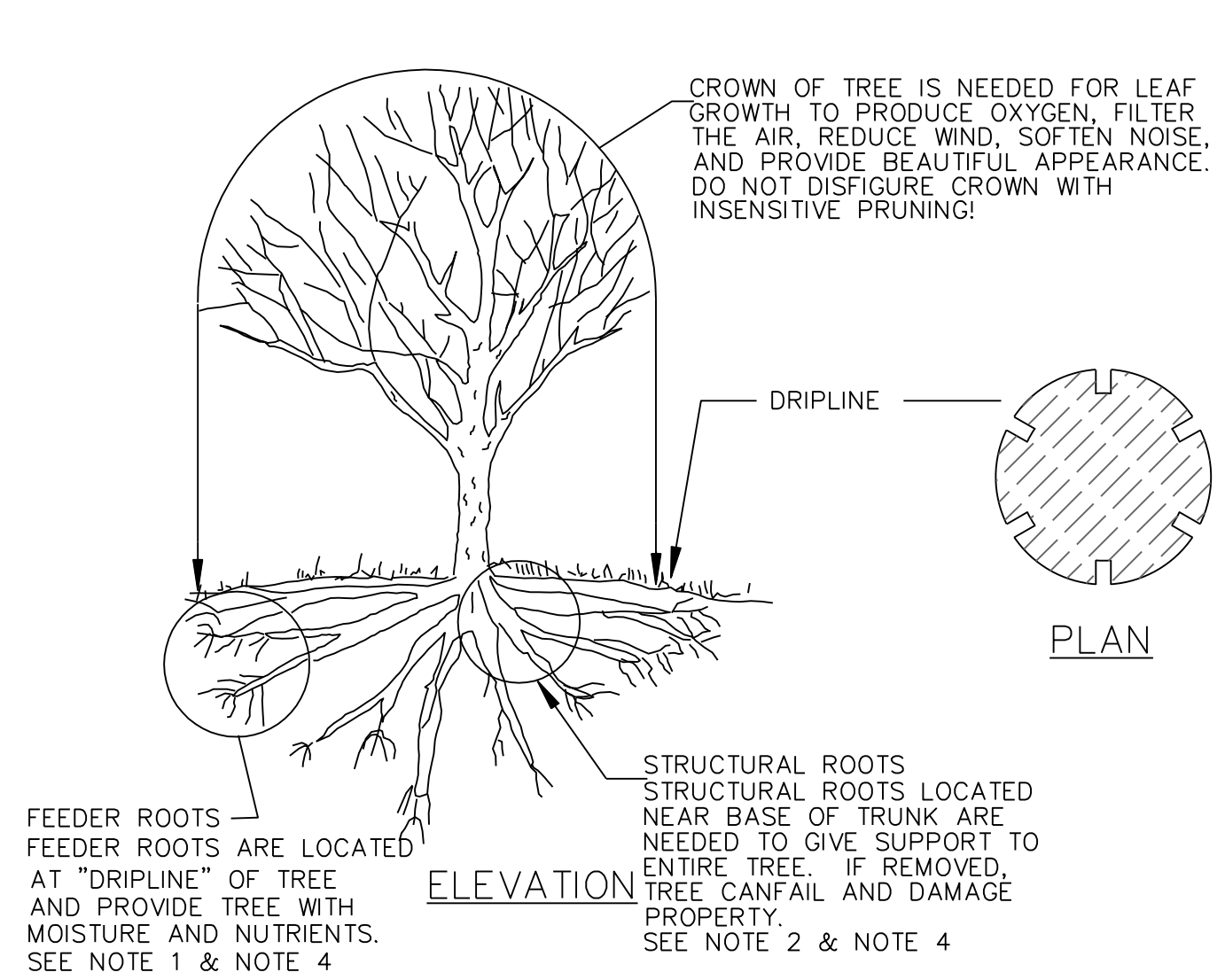
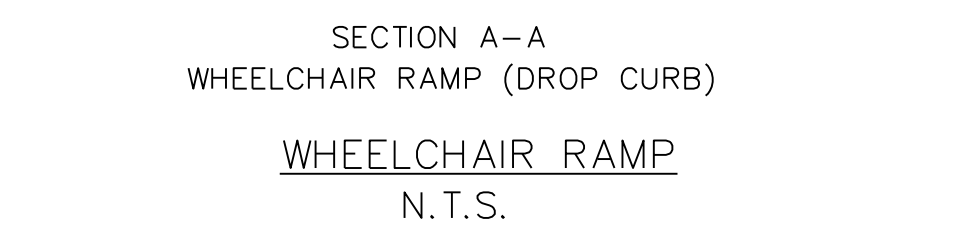
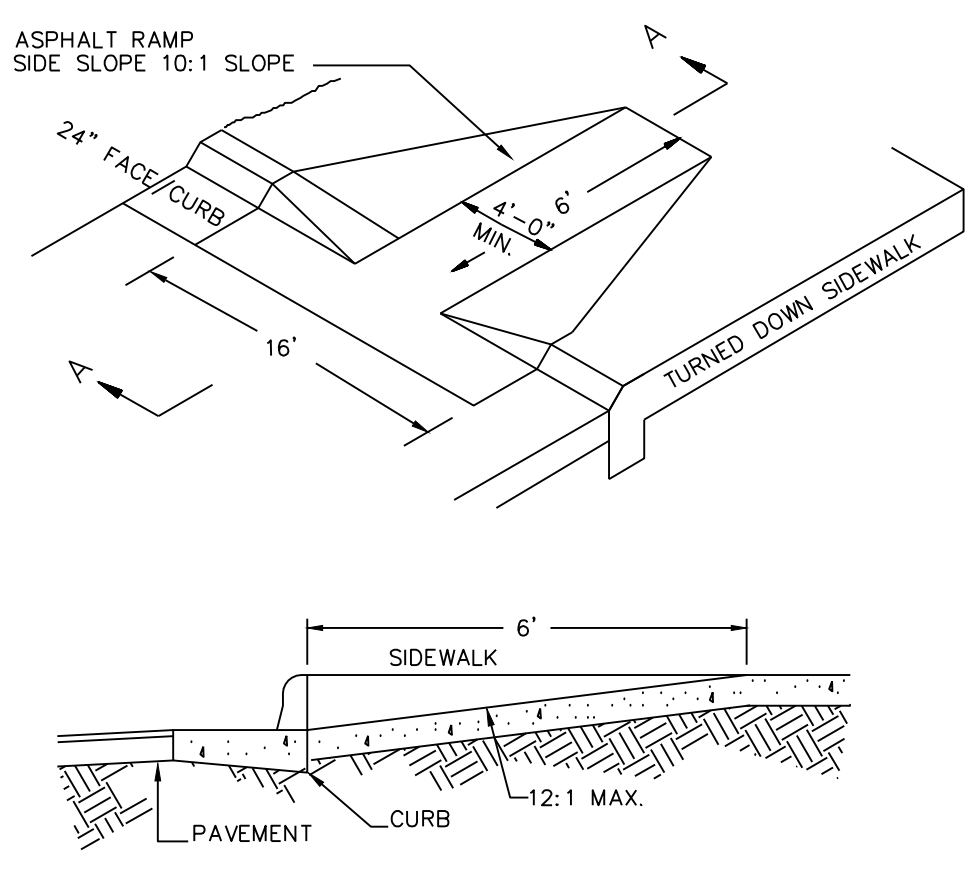
**WET DETENTION DETAILS
EXISTING POND #1**

PREPARED FOR:
BELLE MEADE DEVELOPMENT PARTNERS, LLC
6626-C GORDON ROAD
WILMINGTON, NC 28411
910-799-3006

**GSP CONSULTING, PLLC
ENGINEERING**
6626 Gordon Road Unit C Wilmington, North Carolina 28411 tel: 910-442-7870 fax: 910-799-6659

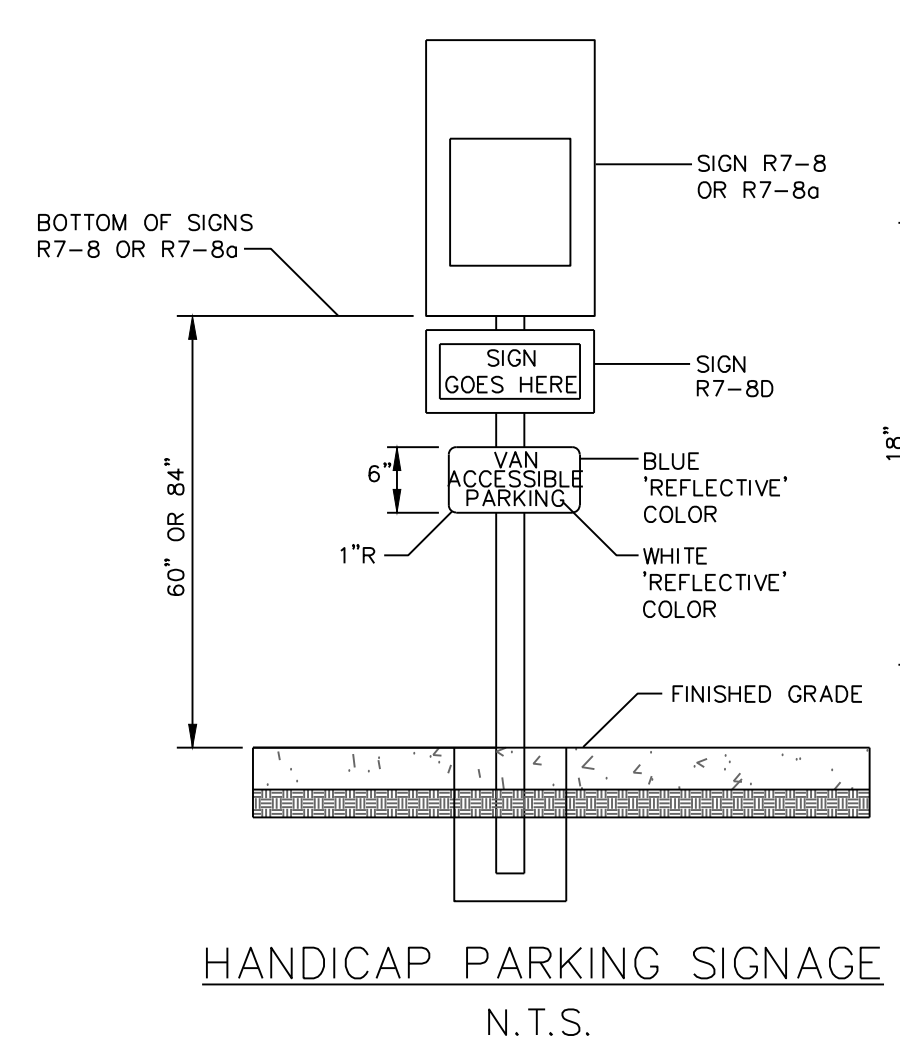
Sheet No.
C-6

- GENERAL NOTES**
- I. LOCATION OF WHEELCHAIR RAMPS:**
- IN ACCORDANCE WITH THE RATIFIED HOUSE BILL 1296, ALL STREET CURBS IN NORTH CAROLINA BEING CONSTRUCTED OR RECONSTRUCTED FOR MAINTENANCE PROCEDURES, TRAFFIC OPERATIONS, REPAIRS, CORRECTION OF UTILITIES OR ALTERED FOR ANY REASON AFTER SEPTEMBER 1, 1973 SHALL PROVIDE WHEELCHAIR RAMPS FOR THE PHYSICALLY HANDICAPPED AT ALL INTERSECTIONS WHERE BOTH CURB AND GUTTERS AND SIDEWALKS ARE PROVIDED AND AT OTHER MAJOR POINTS OF PEDESTRIAN FLOW.
 - WHEELCHAIR RAMPS SHOULD BE LOCATED AS INDICATED IN DETAIL DRAWINGS, HOWEVER EXISTING LIGHT POLES, FIRE HYDRANTS, DROP INLETS, ETC. MAY AFFECT PLACEMENT.
- II. CONSTRUCTION NOTES:**
- NO SLOPE SHALL EXCEED 1"-1" (12:1) ON THE RAMP OR SIDEWALK.
 - IN NO CASE SHALL THE WIDTH OF WHEELCHAIR RAMPS BE LESS THAN 40" (3'-4"), WIDTHS MAY EXCEED 40" IF NECESSARY.
 - USE CLASS "A" CONCRETE WITH THE SURFACE HAVING A ROUGH, NON-SKID TYPE FINISH.
 - 1/2" EXPANSION JOINT WILL BE REQUIRED WHERE THE CONCRETE WHEELCHAIR RAMP JOINS ANY RIGID PAVEMENT OR STRUCTURE.
 - CONSTRUCTION METHODS SHALL CONFORM WITH THOSE OF THE GOVERNING BODY WHICH HAS JURISDICTION OF THE PARTICULAR STREET.
- III. ADDITIONAL NOTES:**
- THE INSIDE PEDESTRIAN CROSSWALK LINES SHALL BE ESTABLISHED BY BISECTING THE INTERSECTION RADII WHERE MARKED (SEE NOTE 6).
 - THE WHEELCHAIR RAMP SHALL BE LOCATED SO THAT THE BEGINNING OF THE WHEEL CHAIR RAMP WILL BE TWO FEET FROM THE INSIDE PEDESTRIAN CROSSWALK LINE.
 - THE WIDTH OF THE PEDESTRIAN CROSSWALK SHALL BE 10 FEET UNLESS A GREATER WIDTH IS REQUIRED TO ACCOMMODATE THE PEDESTRIAN TRAFFIC.
 - STOP BARS SHALL BE USED WHERE IT IS IMPORTANT TO INDICATE THE POINT BEHIND WHICH VEHICLES ARE REQUIRED TO STOP IN COMPLIANCE WITH A TRAFFIC SIGNAL, STOP SIGN, OR OTHER LEGAL REQUIREMENTS.
 - PARKING SHALL BE ELIMINATED A MINIMUM OF 20 FEET BACK OF PEDESTRIAN CROSSWALK.
 - ALL PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, PUBLISHED BY THE FEDERAL HIGHWAY ADMINISTRATION. THIS IS AVAILABLE FROM THE SUPERINTENDENT OF DOCUMENTS, U.S GOVERNMENT PRINTING OFFICE, WASHINGTON, D.C. 20402.

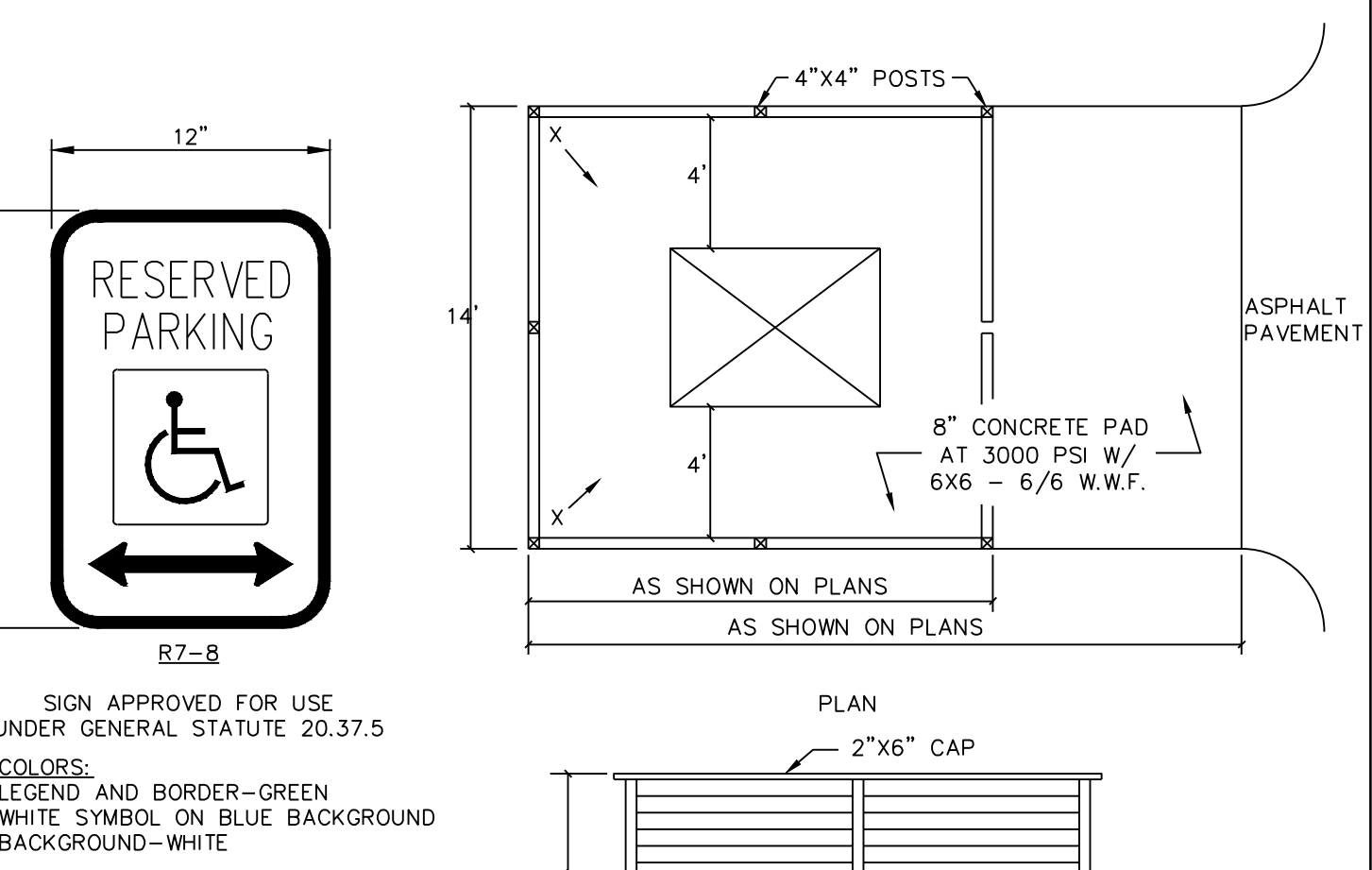


- TREE PROTECTION DURING CONSTRUCTION**
- DO NOT COMPACT SOIL BENEATH TREES. NO VEHICLE SHALL BE ALLOWED TO PARK UNDER TREES. NO HEAVY MATERIALS SHALL BE STORED BENEATH TREES. RESULTS OF COMPACTION CAUSE WATER AND AIR NOT TO REACH THE ROOTS AND THE TREE WILL DIE. THESE "FEEDING ROOTS" OCCUR WELL AWAY FROM THE BASE OF THE TREE TO THE EDGE OF THE OVERHEAD BRANCH CANOPY. DAMAGING THE BARK WITH LAWMOWERS, CONSTRUCTION EQUIPMENT, OR ANYTHING ELSE IS PROHIBITED. A PROTECTIVE BARRIER SHOULD PREVENT DAMAGE FROM OCCURRING DURING CONSTRUCTION.
 - NO CUTTING OF LARGE STRUCTURAL ROOTS LOCATED NEAR THE BASE OF THE TRUNK. THESE ARE ESSENTIAL IN SUPPORTING THE TREE AND HOLDING IT UPRIGHT IN HIGH WINDS. REMOVAL OF THESE ROOTS ALONG ONE SIDE IS OFTEN DONE BECAUSE OF A WALK, PAVING OR BUILDING WHICH IS BEING CONSTRUCTED.
 - AVOID CUT AND FILL WITHIN DIAMETER OF TREE CROWN DURING EXCAVATION.

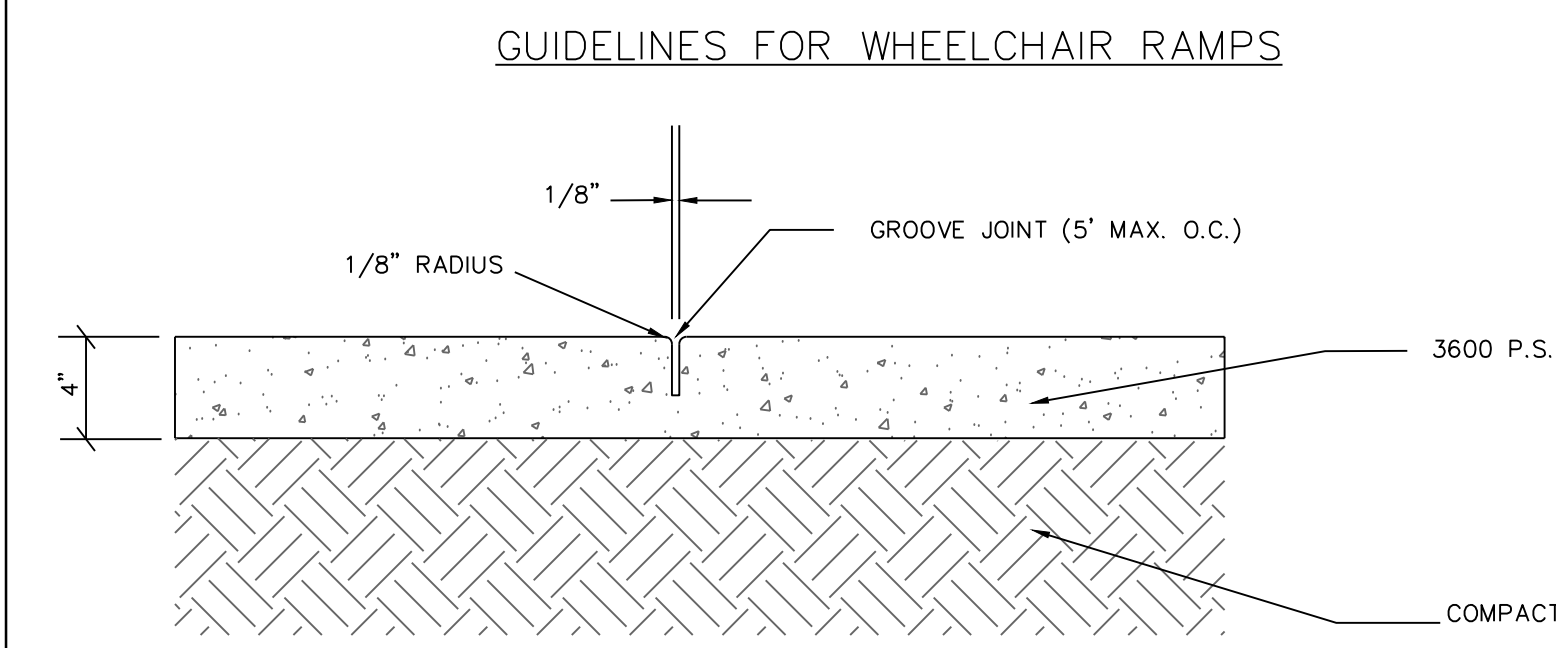
METHOD OF TREE PROTECTION DURING CONSTRUCTION
SD 15-09
NOT TO SCALE



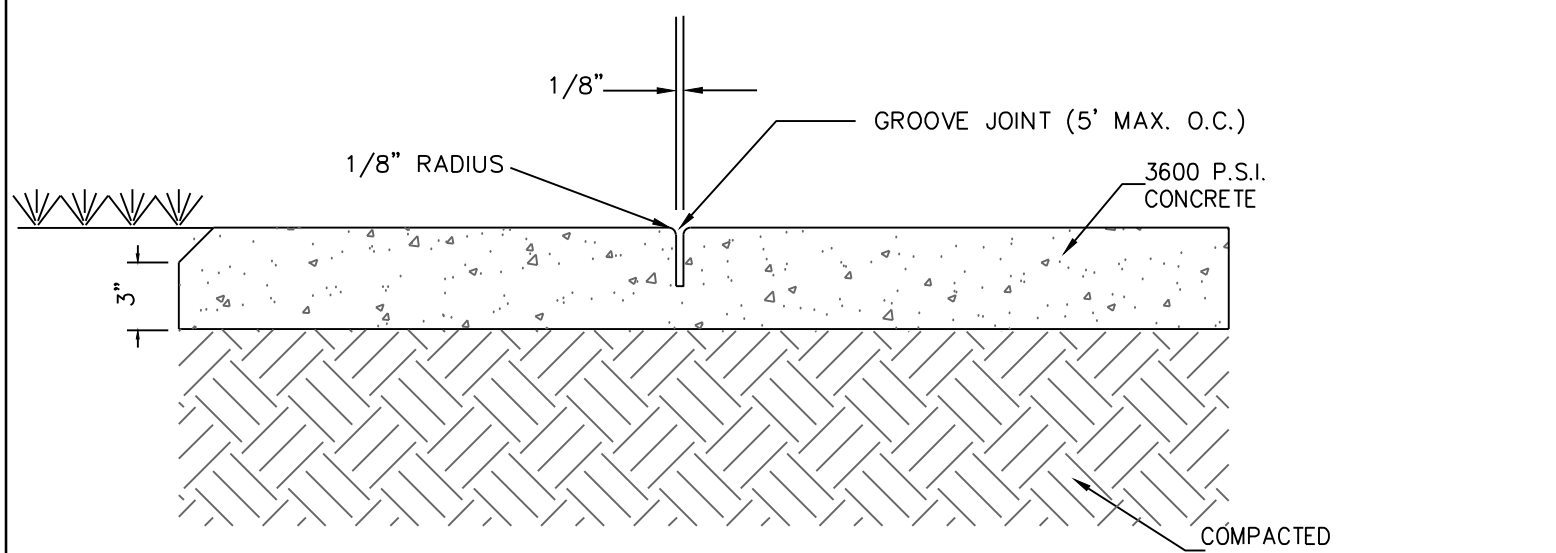
HANDICAP PARKING SIGNAGE
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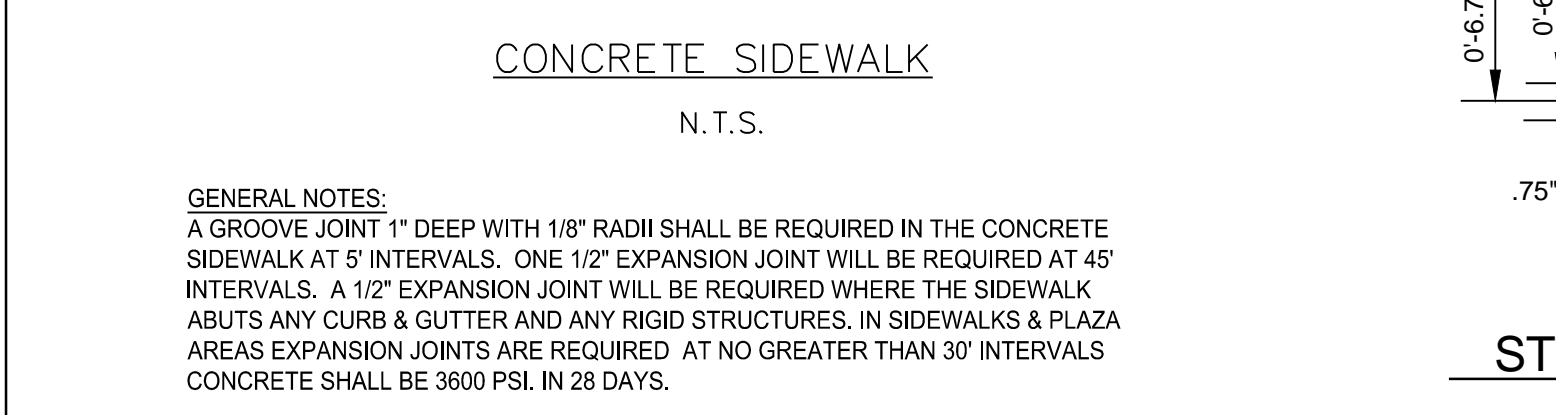
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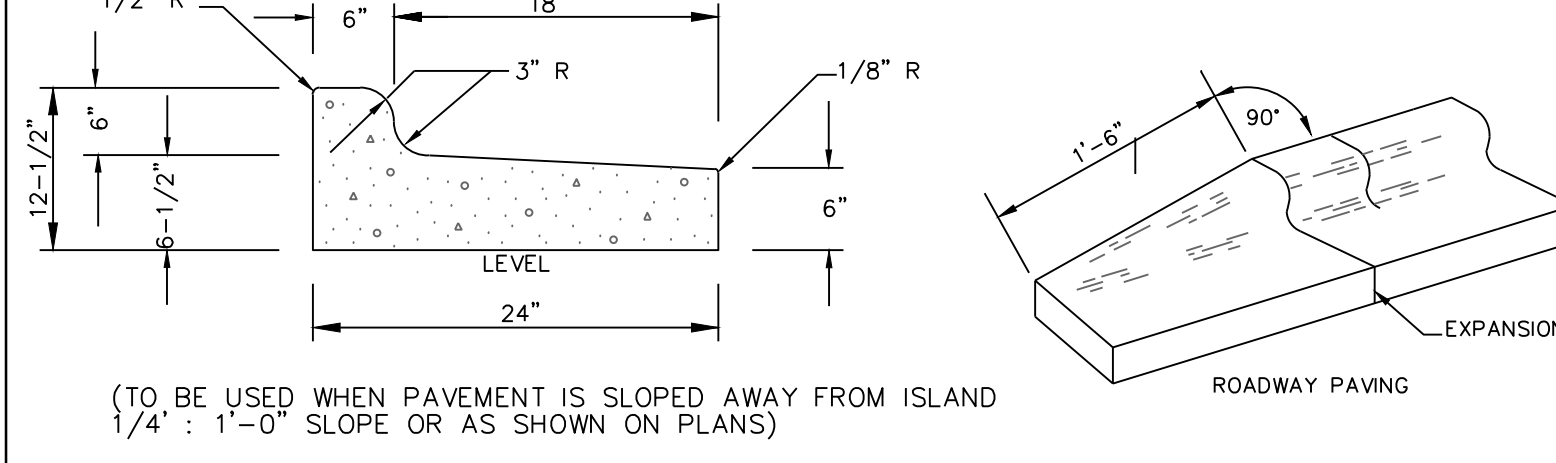
CONCRETE SIDEWALK DETAIL



SIDEWALK ADJACENT TO GRASSED AREAS AND PLANTERS



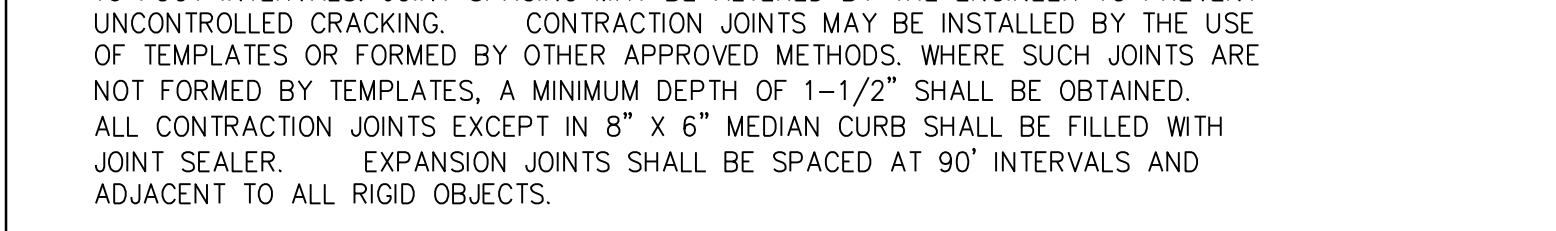
STANDARD CURB SECTION TYPE "A"
SD 7-01
NOT TO SCALE



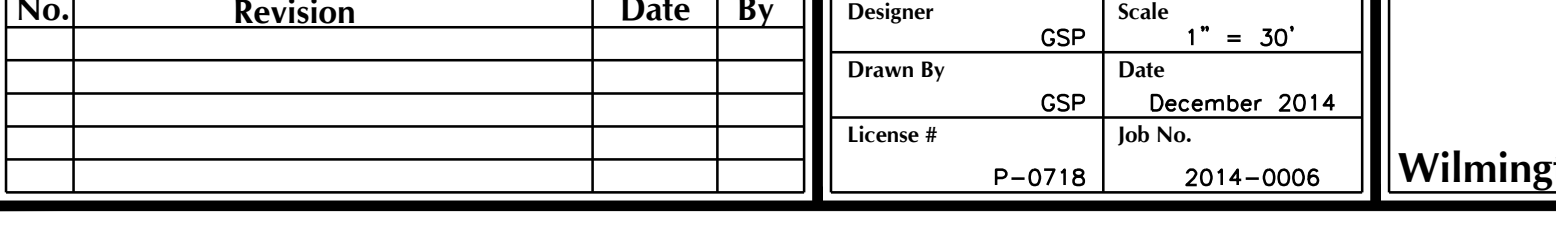
24" CURB AND GUTTER (REVERSE SLOPE)



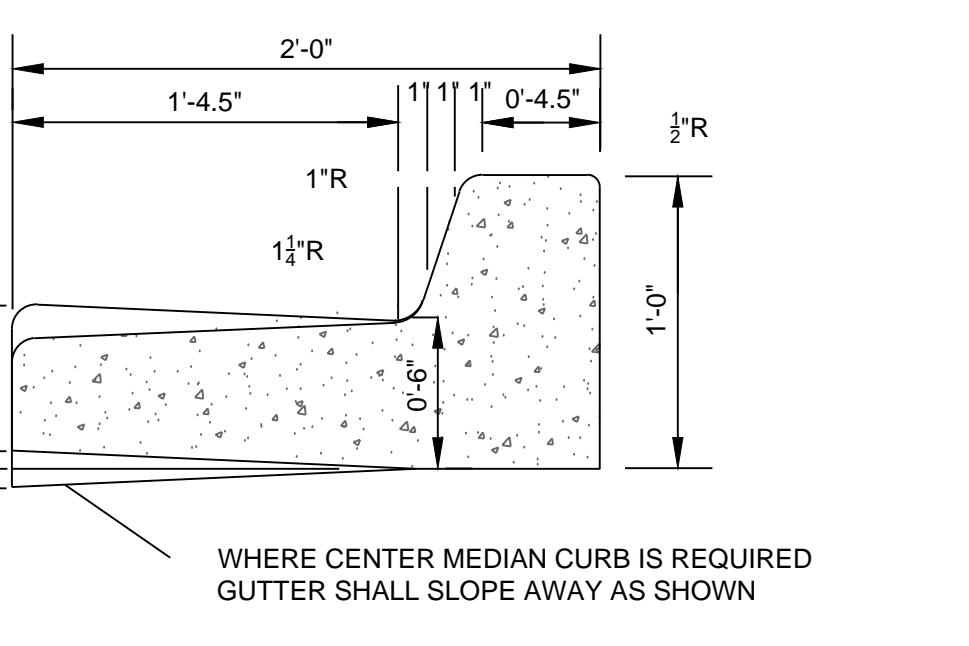
24" CURB & GUTTER TERMINATION DETAIL



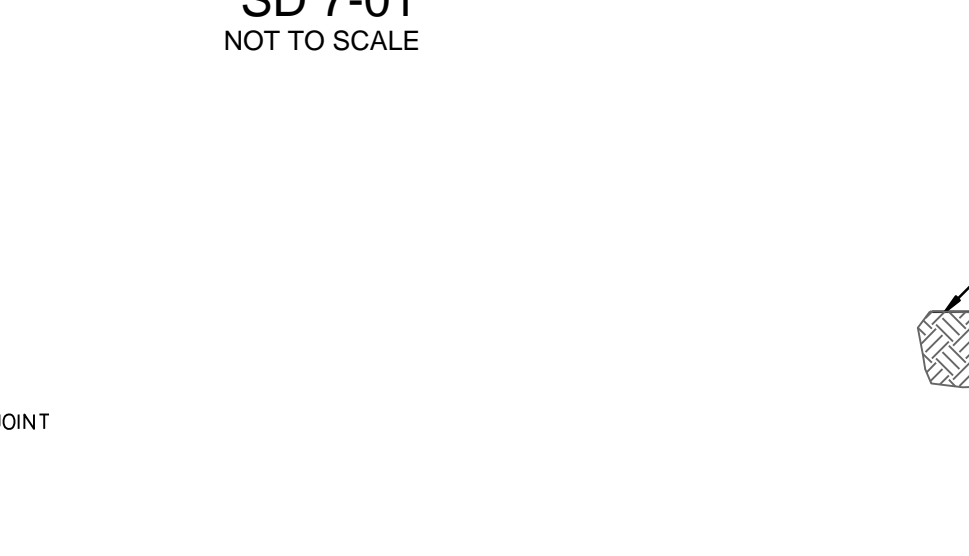
CURB AND GUTTER
N.T.S.



STANDARD SIDEWALK DETAIL
SD 8-15
NOT TO SCALE



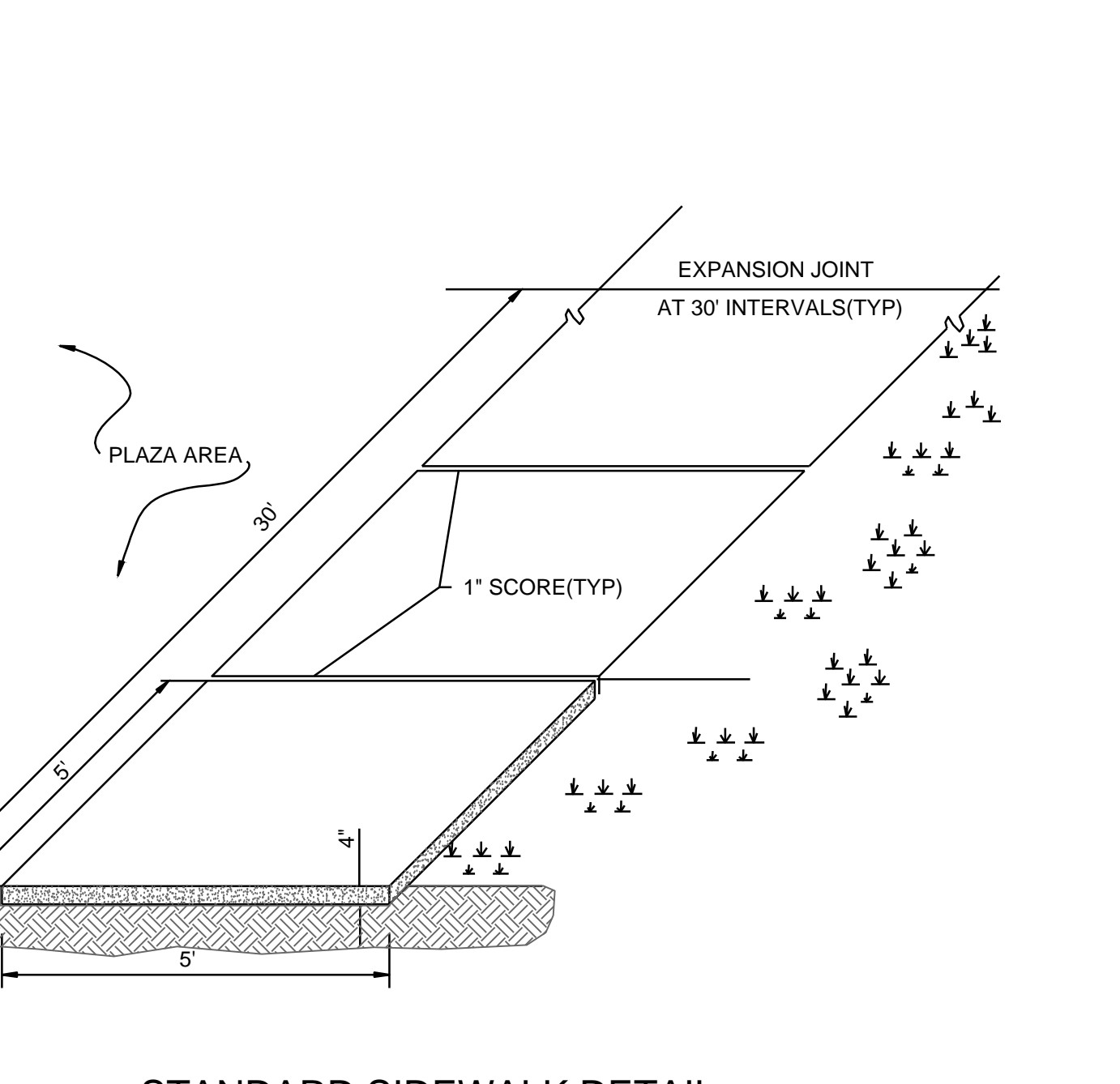
ASPHALT DETAIL FOR PARKING LOT



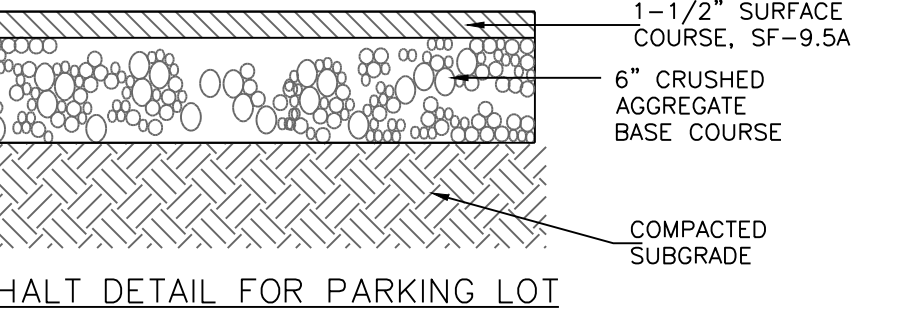
PAVEMENT DETAIL
N.T.S.



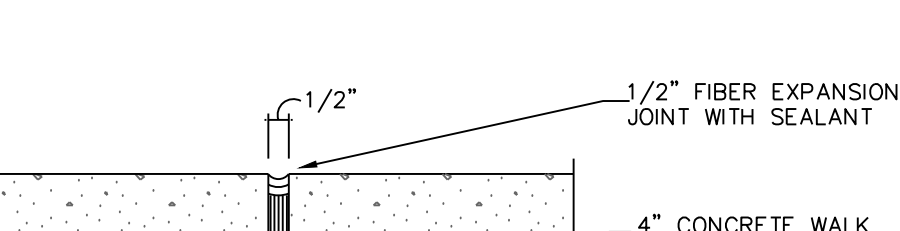
CONSTRUCTION JOINT
N.T.S.



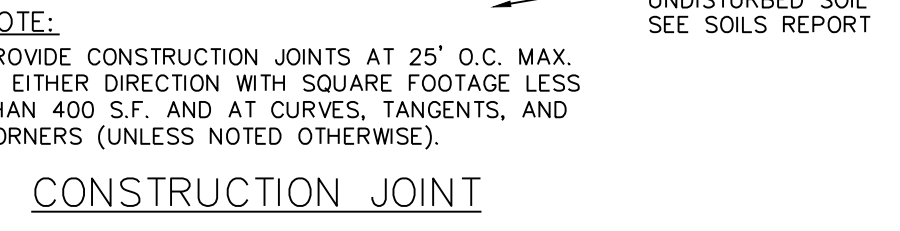
METHOD OF TREE PROTECTION DURING CONSTRUCTION
SD 15-08
NOT TO SCALE



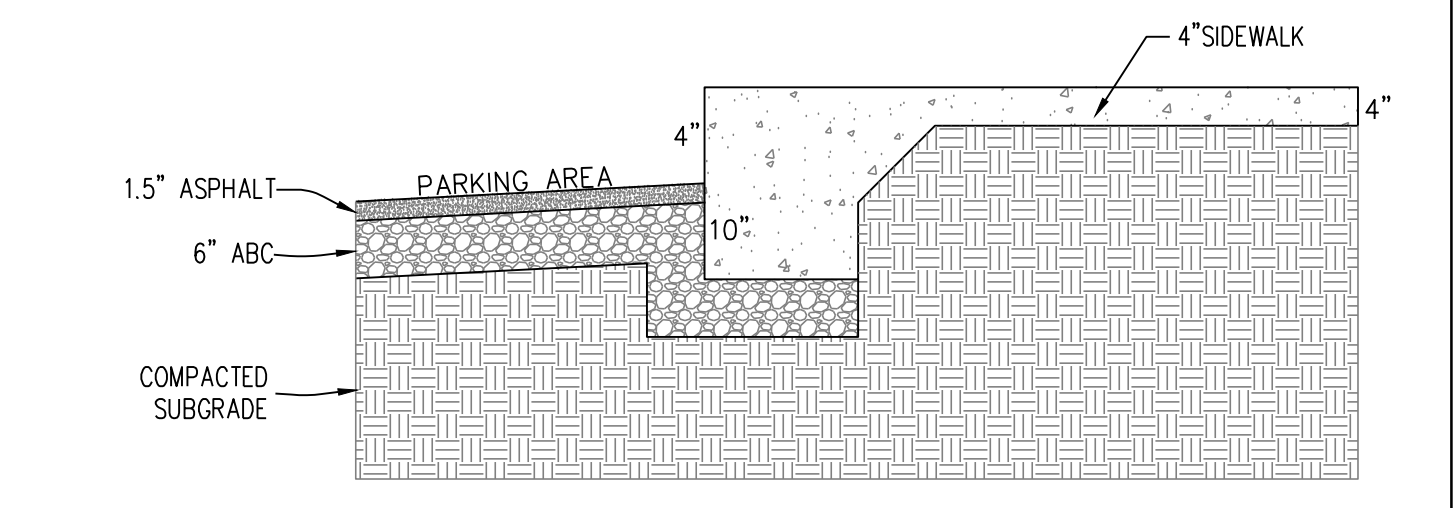
24" CURB AND GUTTER (REVERSE SLOPE)



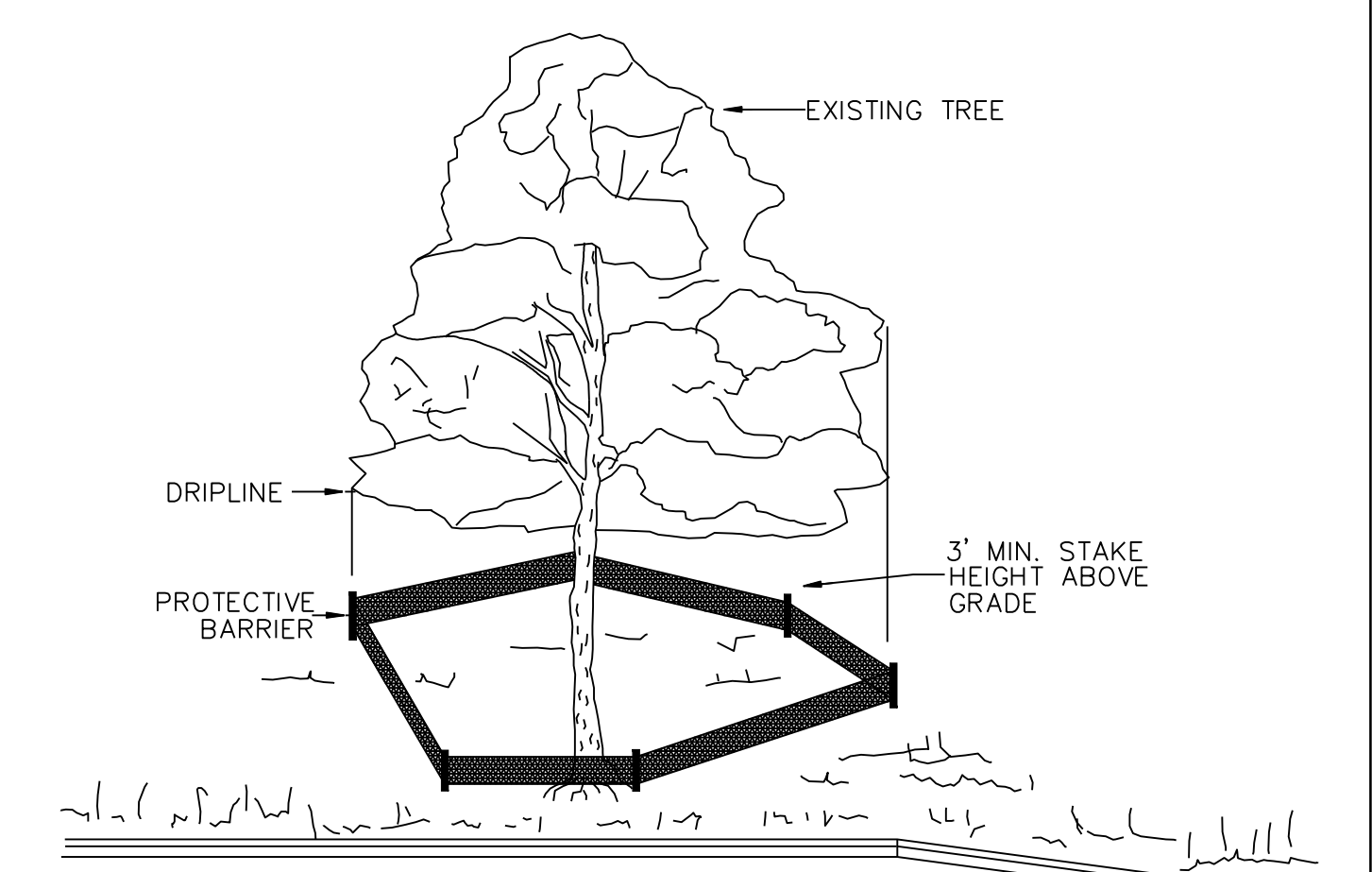
24" CURB & GUTTER TERMINATION DETAIL



CURB AND GUTTER
N.T.S.



TURNDOWN SIDEWALK DETAIL
N.T.S.



METHOD OF TREE PROTECTION DURING CONSTRUCTION
SD 15-08
NOT TO SCALE

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.

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

Date: _____ Permit # _____

Signed: _____

SEAL
031315
ENGINEER
CARY S. PARK
12/22/2014

No.	Revision	Date	By

Designer	GSP	Scale	1" = 30'
Drawn By	GSP	Date	December 2014
License #	P-0718	Job No.	2014-0006

BELLE MEADE APARTMENTS
New Hanover County
North Carolina

STANDARD DETAILS

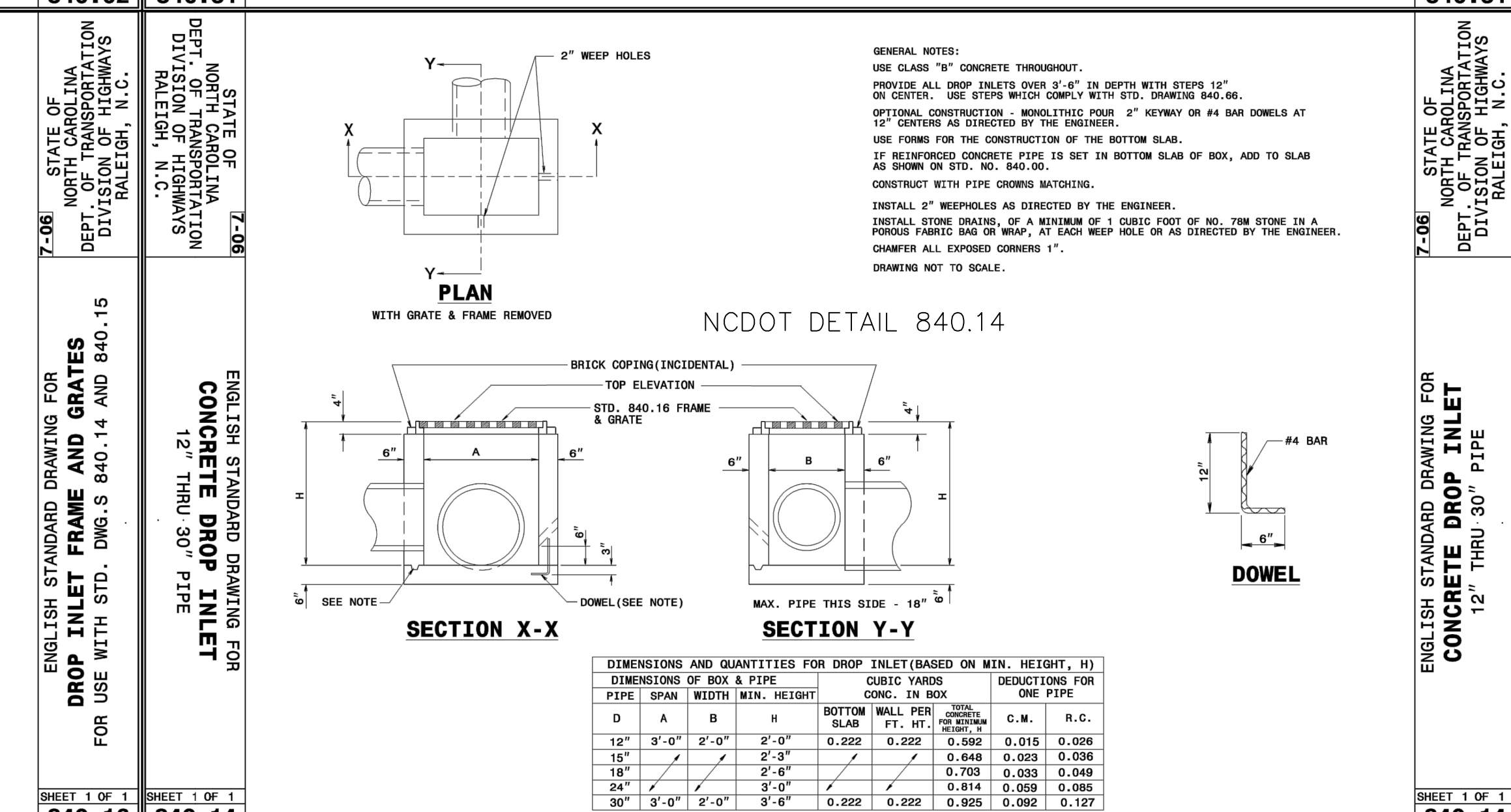
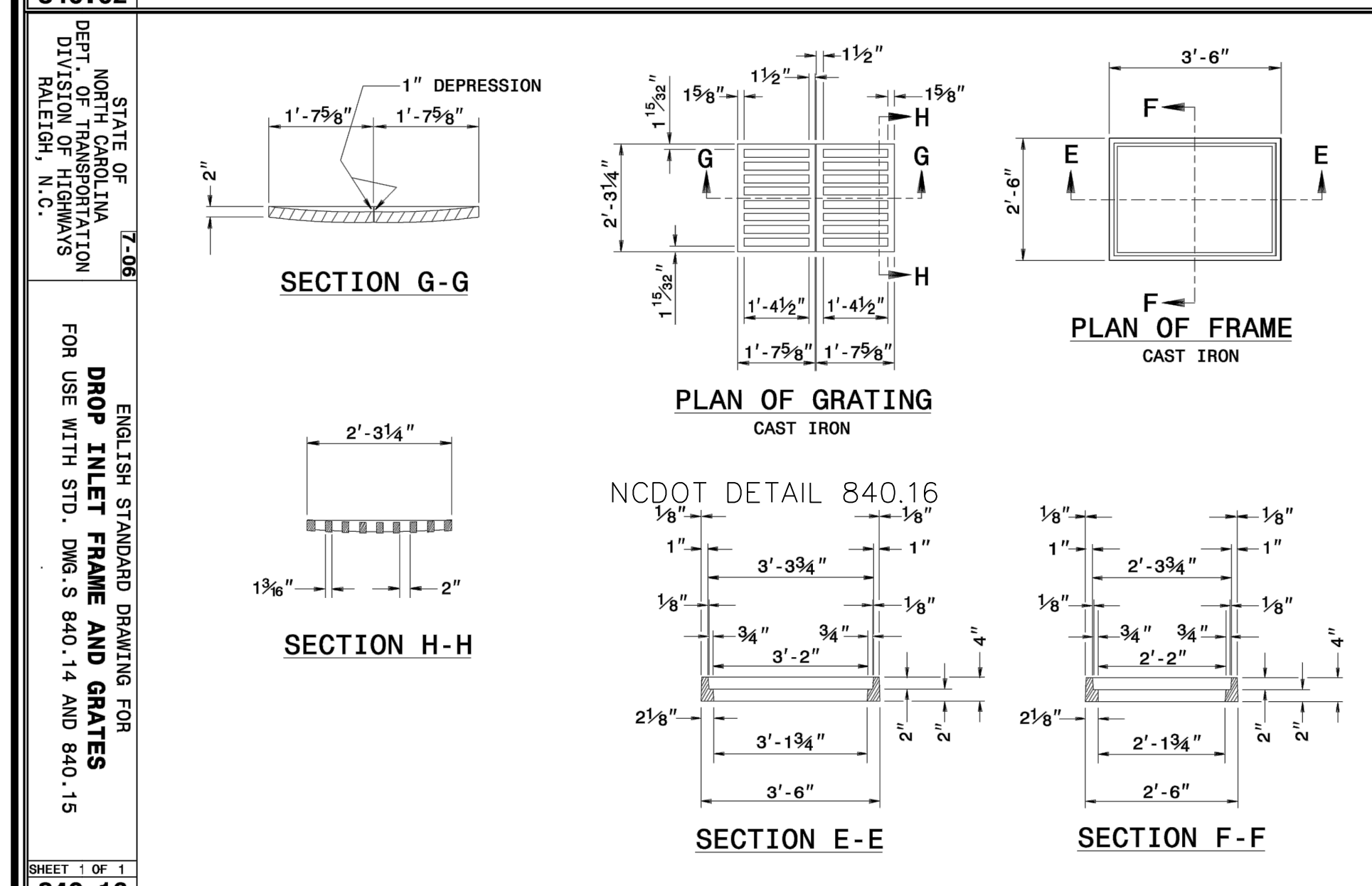
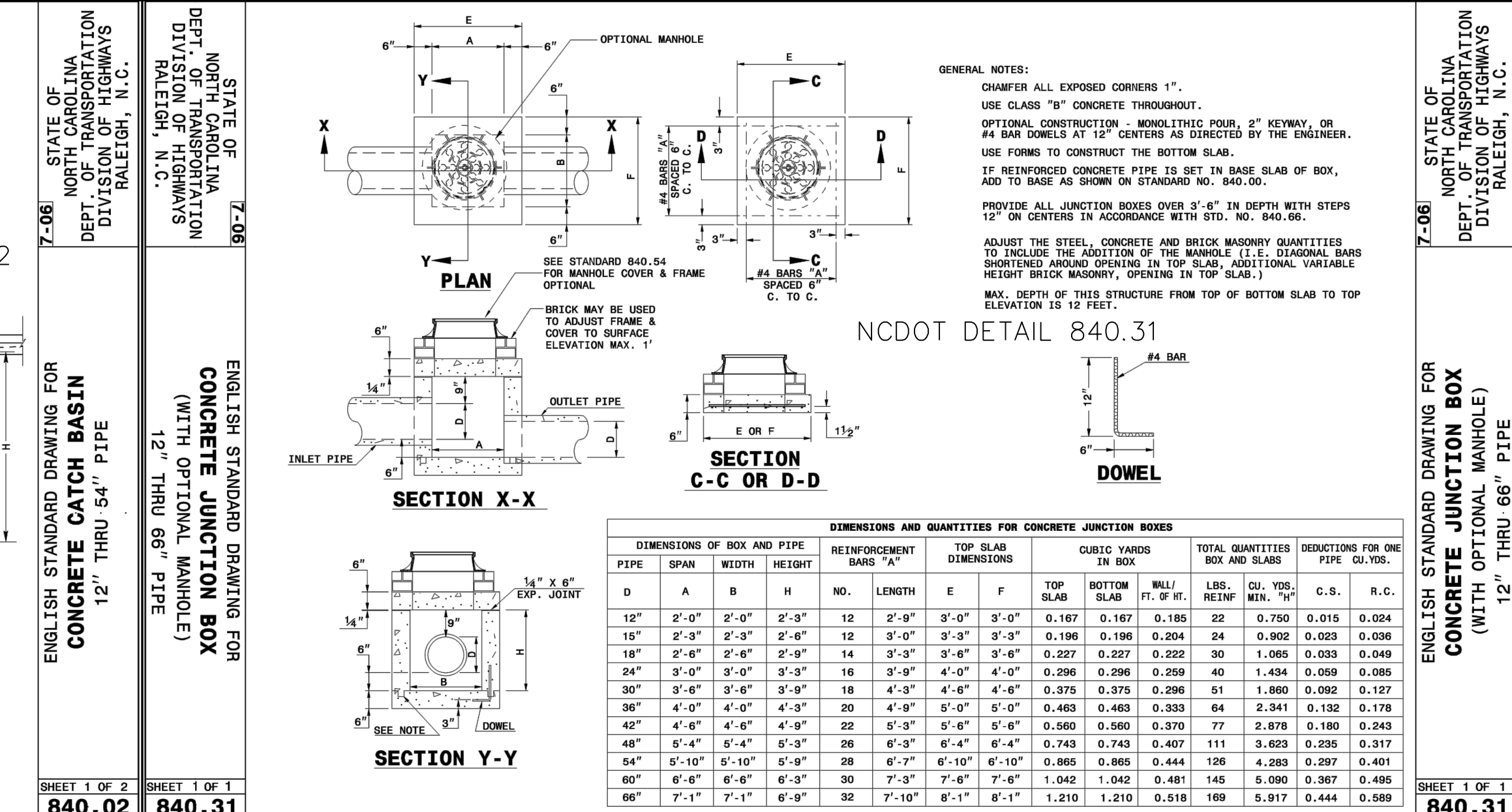
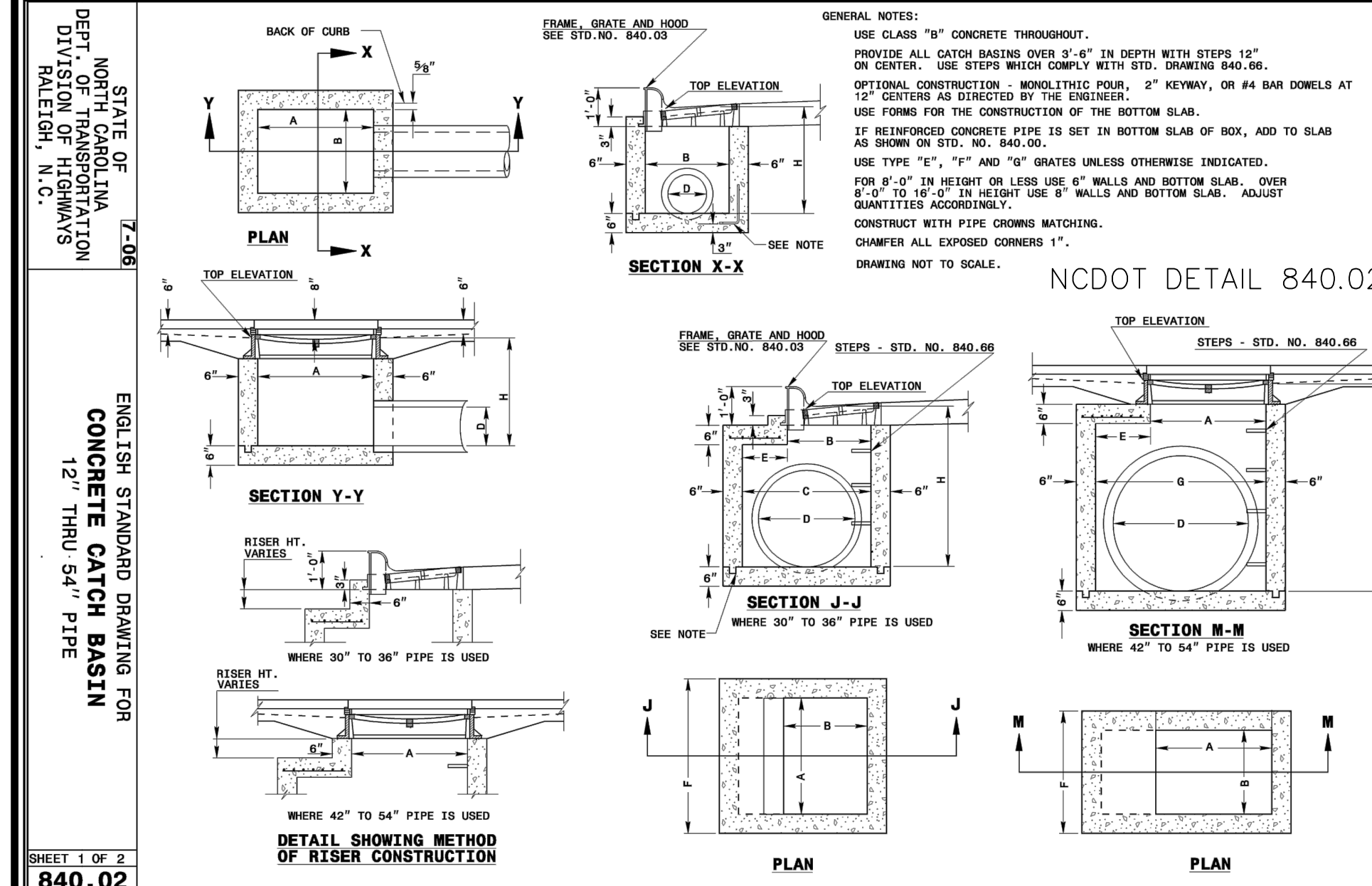
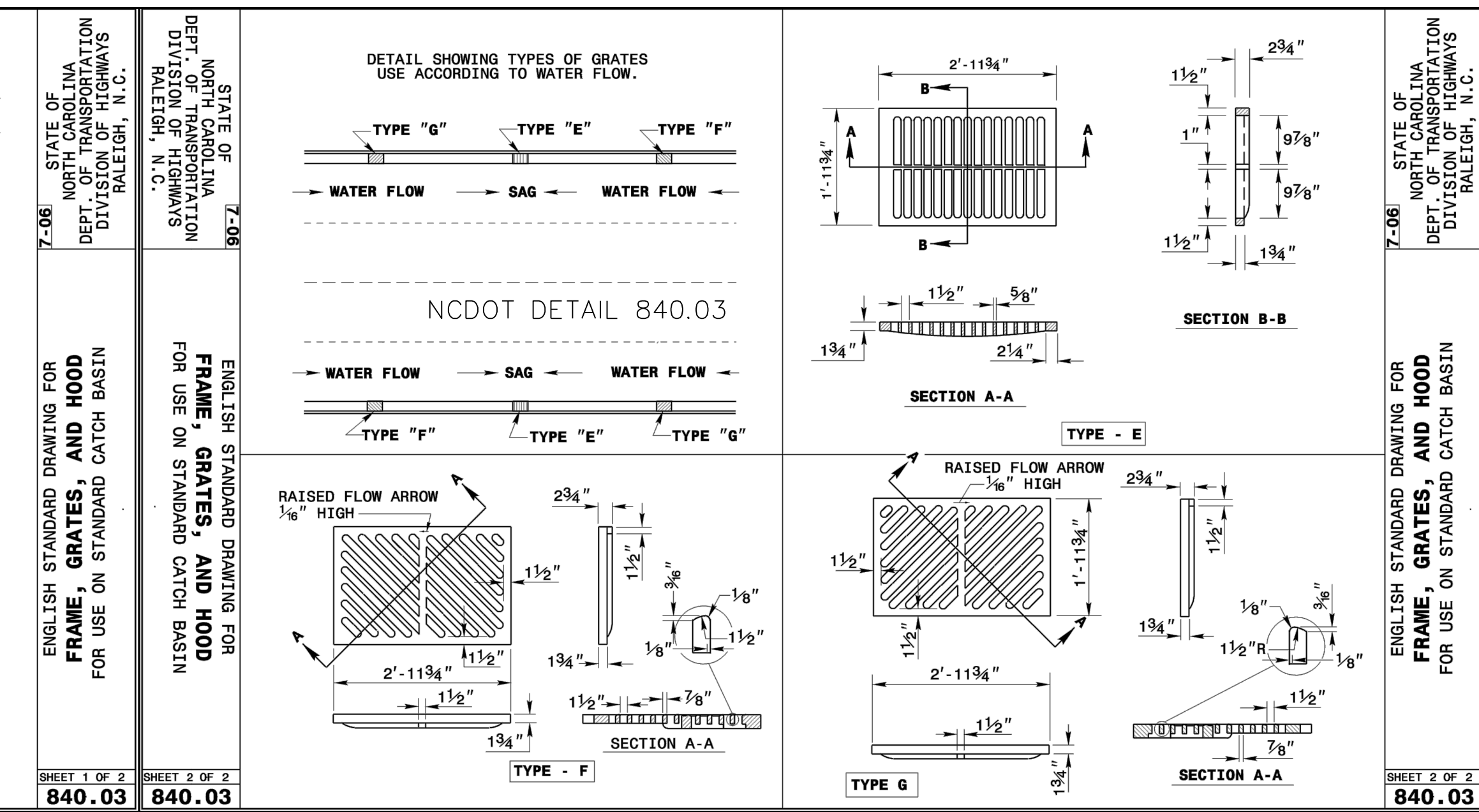
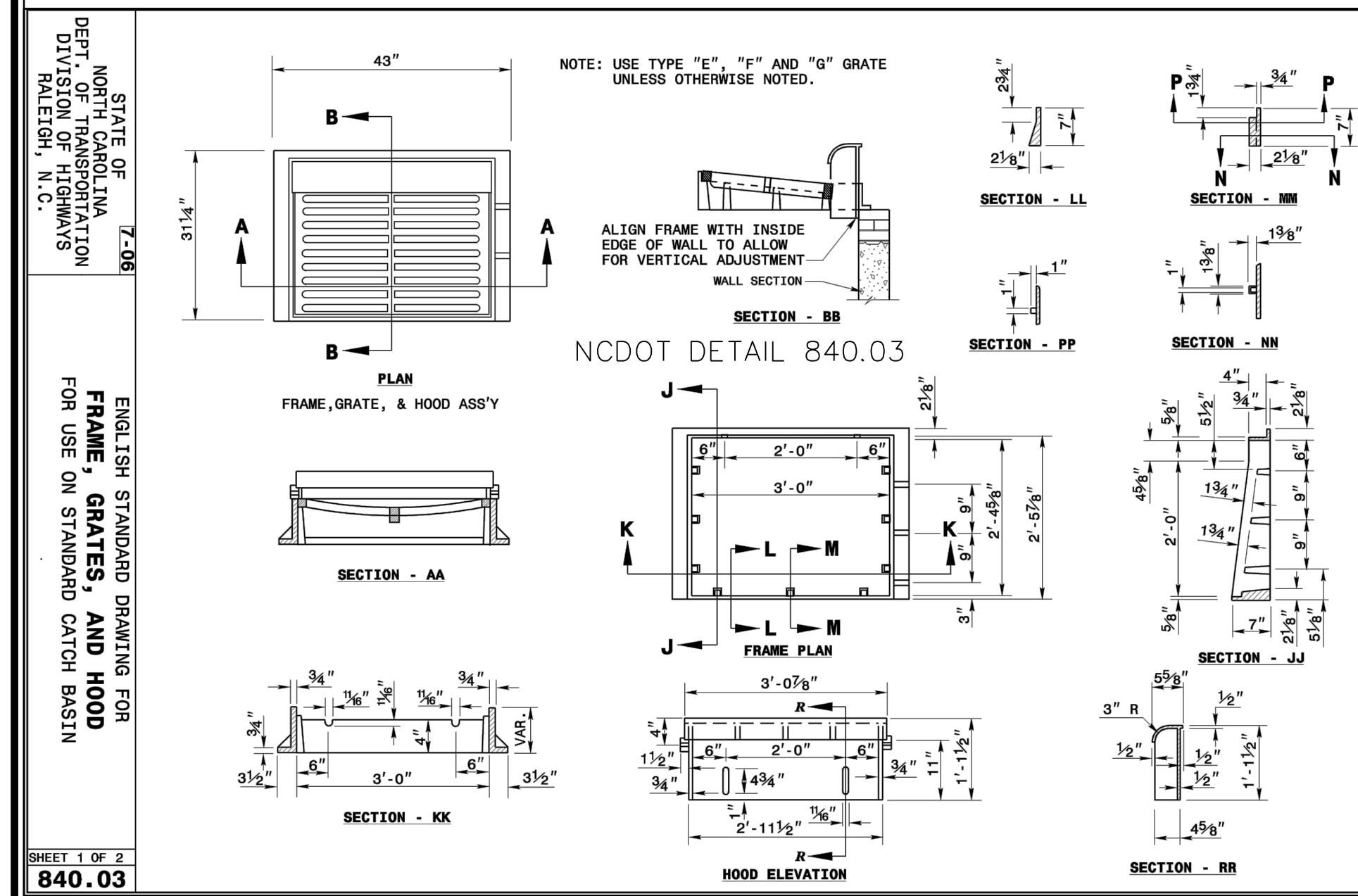
PREPARED FOR:
BELLE MEADE DEVELOPMENT PARTNERS, LLC
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910-799-3006

GSP CONSULTING, PLLC
ENGINEERING
6626 Gordon Road Unit C Wilmington, North Carolina 28411 tel: 910-442-7870 fax: 910-799-6659

Sheet No.
C-7

STORM TABLE

FROM	TO	LENGTH (ft)	AREA (oc)	C-FACTOR (C)	RUNOFF (cfs)	CAPACITY (cfs)	DIAMETER (in)	SLOPE (%)	INV. DN (ft)	INV. UP (ft)	HGL _{DN} (ft)	HGL _{UP} (ft)	RIM (ft)	MATERIAL
EX 2	EX 1	74	0.00	0.00	62.90	292.00	60	1.26	5.19	6.12	15.64	15.68	20.87	EX. RCP
EX 3	EX 2	97	4.15	0.58	60.64	171.50	60	0.43	6.12	6.54	15.85	15.91	20.44	EX. RCP
EX 4	EX 3	165	0.00	0.00	48.39	110.99	60	0.18	6.54	6.84	16.07	16.13	20.97	EX. RCP
EX 5	EX 4	305	0.00	0.00	46.98	111.52	48	0.60	6.84	6.68	16.22	16.55	23.14	EX. RCP
1	EX 5	74	0.10	0.89	47.42	113.06	48	0.62	8.68	9.14	16.58	16.66	20.90	EX. RCP
EX 6	1	108	0.19	0.80	33.17	113.80	48	0.63	9.14	9.82	17.09	17.15	20.83	EX. RCP
EX 7	EX 6	75	0.00	0.00	32.58	40.61	48	0.08	9.82	9.88	17.28	17.32	21.48	EX. RCP
EX 8	EX 7	143	0.63	0.67	33.21	105.46	48	0.54	9.88	10.65	17.39	17.47	19.00	EX. RCP
EX 9	EX 8	361	0.69	0.68	23.75	85.81	48	0.36	10.65	11.94	17.69	17.78	17.94	EX. RCP
EX 10	EX 9	278	0.66	0.43	13.41	52.04	36	0.61	11.94	13.63	17.87	17.98	18.10	EX. RCP
EX 11	EX 10	58	0.51	0.73	6.07	36.81	30	0.81	13.63	14.10	18.14	18.15	18.18	EX. RCP
EX 12	EX 2	58	0.28	0.71	3.90	11.30	18	1.16	10.62	11.29	15.93	16.01	18.01	EX. RCP
EX 13	EX 12	43	0.53	0.65	2.49	13.68	18	1.70	11.29	12.02	16.15	16.17	18.01	EX. RCP
EX 14	EX 4	37	0.24	0.70	4.06	17.17	18	2.67	15.14	16.12	16.24	16.29	20.45	EX. RCP
EX 15	EX 14	41	0.63	0.63	2.87	18.37	18	3.06	16.12	17.36	17.16	18.01	20.45	EX. RCP
2	1	80	0.26	0.78	15.76	36.47	36	0.30	11.14	11.38	17.12	17.17	20.87	HDPE
3	2	207	0.25	0.83	14.89	22.46	30	0.30	11.38	12.00	17.22	17.49	20.38	HDPE
4	3	40	0.35	0.69	13.58	12.40	24	0.30	12.00	12.12	17.56	17.70	18.80	HDPE
5	4	37	0.28	0.78	7.16	12.33	24	0.30	12.12	12.23	18.35	18.39	19.11	HDPE
6	5	225	0.28	0.78	5.88	12.44	24	0.30	12.23	12.91	18.45	18.61	19.29	HDPE
7	6	40	0.31	0.71	3.26	3.53	15	0.30	12.91	13.03	18.67	18.77	18.80	HDPE
8	7	48	0.19	0.75	1.72	3.48	15	0.29	13.03	13.17	18.91	18.94	19.08	HDPE
9	8	80	0.12	0.82	0.71	3.54	15	0.30	13.17	13.41	19.01	19.02	19.08	HDPE
10	4	49	0.25	0.91	4.95	5.80	18	0.30	12.12	12.27	18.31	18.42	19.29	HDPE
11	10	79	0.32	0.89	3.42	5.79	18	0.30	12.27	12.51	18.54	18.63	19.49	HDPE
12	11	120	0.15	0.85	1.45	3.54	15	0.30	12.51	12.87	18.75	18.81	21.20	HDPE
13	12	79	0.09	0.84	0.55	3.49	15	0.29	12.87	13.10	18.86	18.87	21.80	HDPE
14	6	64	0.22	0.71	1.13	3.53	15	0.30	12.91	13.10	18.71	18.73	19.04	HDPE
15	EX 10	44	0.29	0.87	5.64	12.29	24	0.30	14.63	14.76	18.11	18.14	19.00	HDPE
16	15	63	0.11	0.61	3.94	5.78	18	0.30	14.76	14.95	18.16	18.25	19.00	HDPE
17	16	38	0.13	0.72	3.49	5.91	18	0.32	14.95	15.07	18.31	18.35	19.00	HDPE
18	17	72	0.26	0.89	2.87	3.49	15	0.29	15.07	15.28	18.38	18.52	19.00	HDPE
19	18	132	0.21	0.83	1.26	3.56	15	0.30	15.28	15.68	18.72	18.77	18.98	HDPE
EX 16	EX 8	48	0.48	0.56	8.88	37.15	36	0.31	10.89	11.04	17.72	17.73	18.91	EX. RCP
20	EX 16	20	0.08	0.95	7.09	12.48	24	0.30	12.04	12.10	17.74	17.76	21.00	HDPE
21	20	172	0.00	0.00	1.57	3.55	15	0.30	12.10	12.62	17.89	17.99	22.00	HDPE
22	21	35	0.09	0.77	1.58	3.46	15	0.29	12.62	12.72	18.01	18.03	20.01	HDPE
23	22	80	0.10	0.76	1.10	3.54	15	0.30	12.72	12.96	18.07	18.10	20.01	HDPE
24	23	68	0.09	0.87	0.57	3.59	15	0.31	12.96	13.17	18.11	18.12	20.01	HDPE
25	20	72	0.08	0.95	5.11	12.50	24	0.31	12.10	12.32	17.87	17.91	21.00	HDPE
26	25	31	0.11	0.70	4.61	5.69	18	0.29	12.32	12.41	17.94	18.00	20.25	HDPE
27	26	81	0.30	0.81	4.14	5.73	18	0.30	12.41	12.65	18.15	18.27	19.51	HDPE
28	27	73	0.17	0.84	2.47	3.53	15	0.30	12.65	12.87	18.34	18.44	19.40	HDPE
29	28	125	0.13	0.84	1.49	3.56	15	0.30	12.87	13.25	18.58	18.65	20.01	HDPE
30	29	28	0.12	0.82	0.71	3.43	15	0.28	13.25	13.33	18.68	18.68	20.01	HDPE
EX 17	EX 9	51	0.62	0.66	8.23	17.99	24	0.63	12.30	12.62	17.87	17.93	17.96	EX. RCP
31	EX 17	60	0.20	0.79	5.52	5.77	18	0.30	12.62	12.80	18.04	18.21	19.15	HDPE
32	31	72	0.29	0.82	4.50	5.82	18	0.31	12.80	13.02	18.42	18.55	19.51	HDPE
33	32	74	0.28	0.84	2.89	3.52	15	0.30	13.02	13.24	18.61	18.76	19.50	HDPE
34	33	233	0.22	0.82	1.30	3.54	15	0.30	13.24	13.94	18.96	19.05	19.65	HDPE
35	EX 11	59	0.20	0.79	3.59	3.55	15	0.30	14.60	14.78	18.18	18.36	21.03	HDPE
36	35	148	0.26	0.72	2.57	3.52	15	0.30	14.78	15.22	18.58	18.82	19.54	HDPE
37	36	215	0.22	0.82	1.30	3.55	15	0.30	15.22	15.87	18.97	19.06	19.64	HDPE



Approved Construction Plan

Name _____ Date _____

Planning _____

Traffic _____

Fire _____

WILMINGTON
NORTH CAROLINA

Public Services • Engineering Division

APPROVED STORMWATER MANAGEMENT PLAN

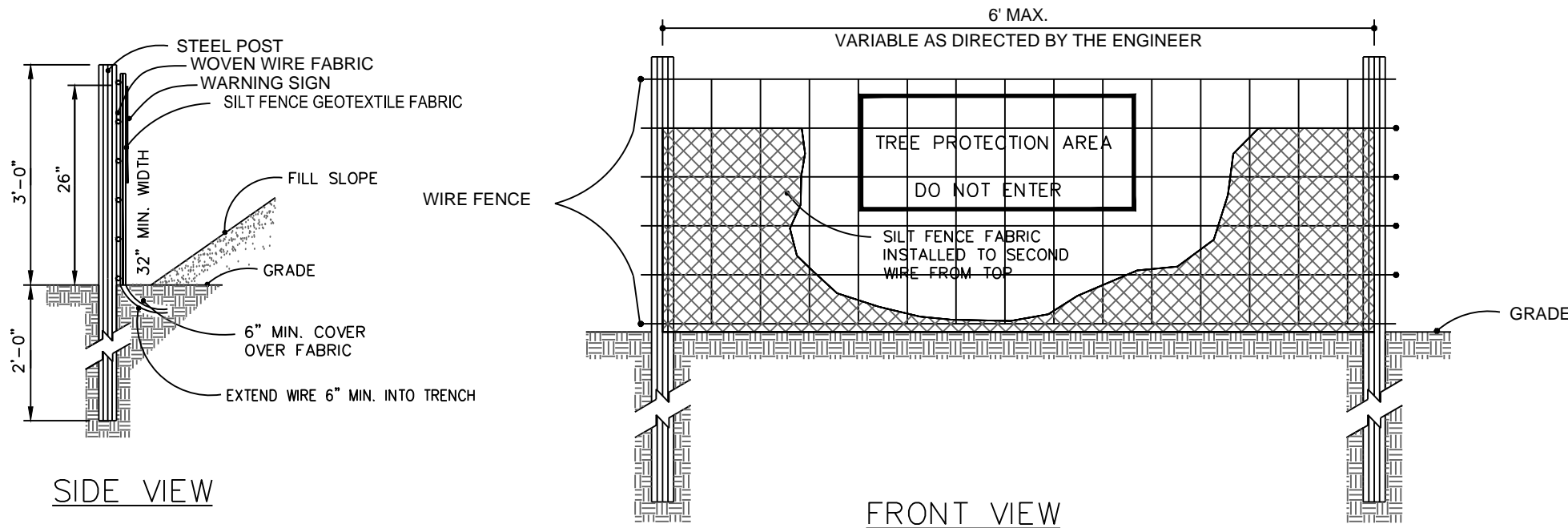
Date: _____ Permit # _____

Signed: _____

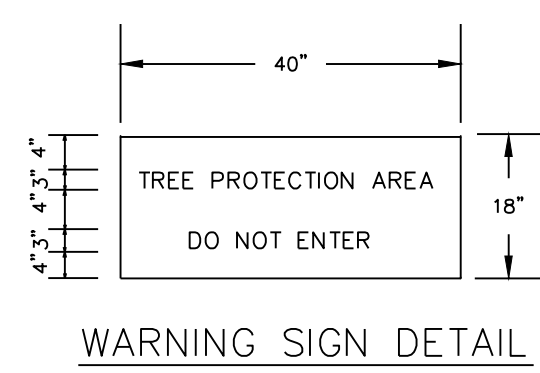
For each open utility cut of City streets, a \$325 permit shall be required from the City prior to occupancy and/or project acceptance.

WILMINGTON
NORTH CAROLINA
PROFESSIONAL ENGINEER
SEAL 031315
CARRY S. PIRP
12/22/2014

<p>No. _____</p>	<p>Revision _____</p>	<p>Date _____</p>	<p>By _____</p>	<p>Designer: GSP Scale: 1" = 30' Date: December 2014 License #: P-0718 Job No.: 2014-0006</p>	<p>BELLE MEADE APARTMENTS</p> <p>Wilmington New Hanover County North Carolina</p>	<p>STANDARD DETAILS</p> <p>BELLE MEADE DEVELOPMENT PARTNERS, LLC 6626-C GORDON ROAD WILMINGTON, NC 28411 910-799-3006</p>	<p>GSP CONSULTING, PLLC ENGINEERING</p> <p>6626 Gordon Road Unit C Wilmington, North Carolina 28411 tel: 910-442-7870 fax: 910-799-6659</p>	<p>Sheet No. C-8</p>
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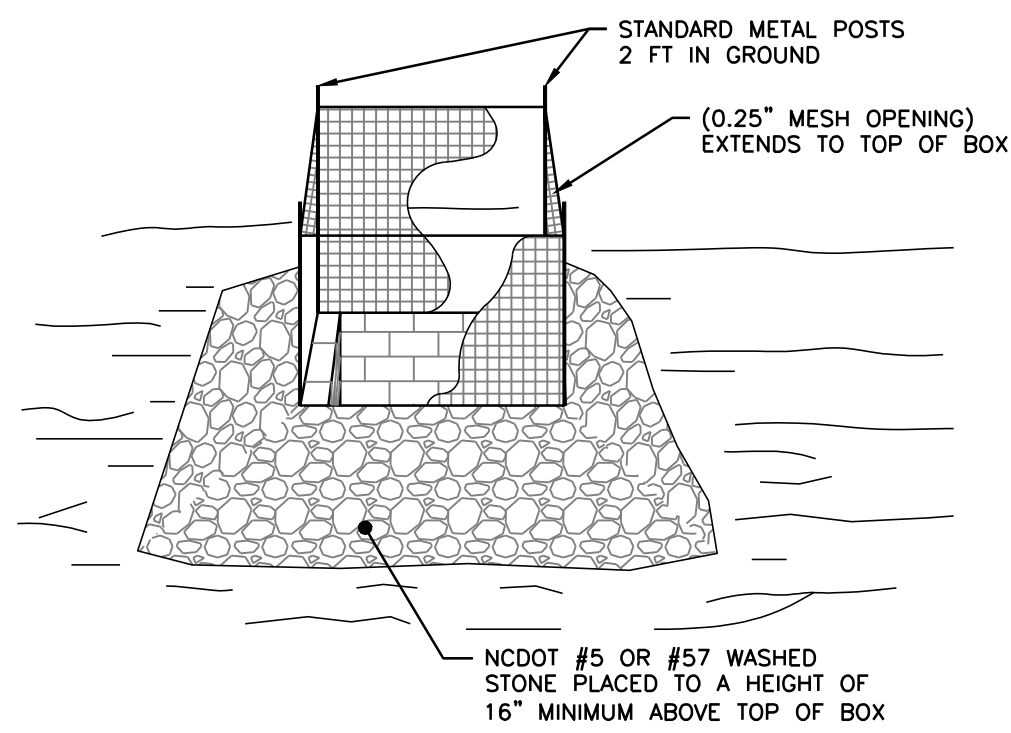


- NOTES:
1. SYNTHETIC FILTER FABRIC SHOULD BE OF AT LEAST 95% BY WEIGHT OF POLYOLEFINS OR POLYESTER, WHICH IS CERTIFIED BY THE MANUFACTURER OR SUPPLIER PER ASTM D 6461 AND SHOULD CONTAIN ULTRAVIOLET RAY INHIBITORS AND STABILIZERS PER ASTM D 4355.
 2. WIRE FENCE SHALL BE MINIMUM 14 GAUGE WITH A MAXIMUM MESH OPENING OF 6-INCHES.
 3. SEE THE NC EROSION AND SEDIMENTATION CONTROL MANUAL FOR OTHER SPECIFICATIONS.



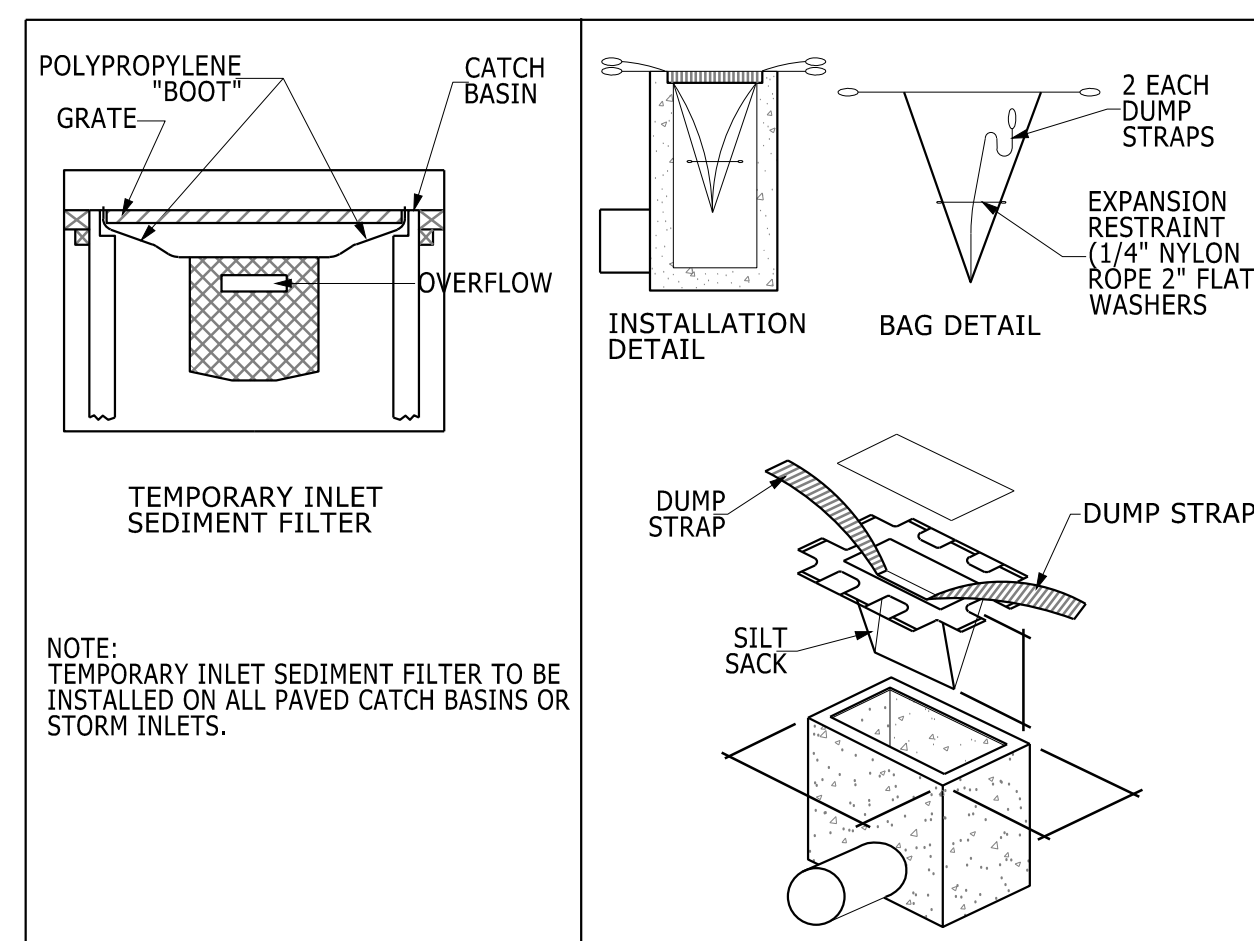
- NOTE:
- WARNING SIGNS TO BE MADE OF DURABLE, WEATHERPROOF MATERIAL, LETTERS TO BE 3" HIGH MINIMUM, CLEARLY LEGIBLE AND SPACED AS DETAILED. SIGNS SHALL BE PLACED AT 50' MAXIMUM INTERVALS. PLACE A SIGN AT EACH END OF LINEAR TREE PROTECTION AND 50' ON CENTER THEREAFTER. FOR TREE PROTECTION AREAS LESS THAN 200' IN PERIMETER, PROVIDE NO LESS THAN ONE SIGN PER PROTECTION AREA. ATTACH SIGNS SECURELY TO FENCE POSTS AND FABRIC. MAINTAIN TREE PROTECTION FENCE THROUGHOUT DURATION OF PROJECT.
- *SIGN TO CONTAIN PHRASE "NO MATERIAL STORAGE"
 ** SIGN TO BE IN ENGLISH & SPANISH

STANDARD TEMPORARY SILT / TREE PROTECTION FENCE
N.T.S.



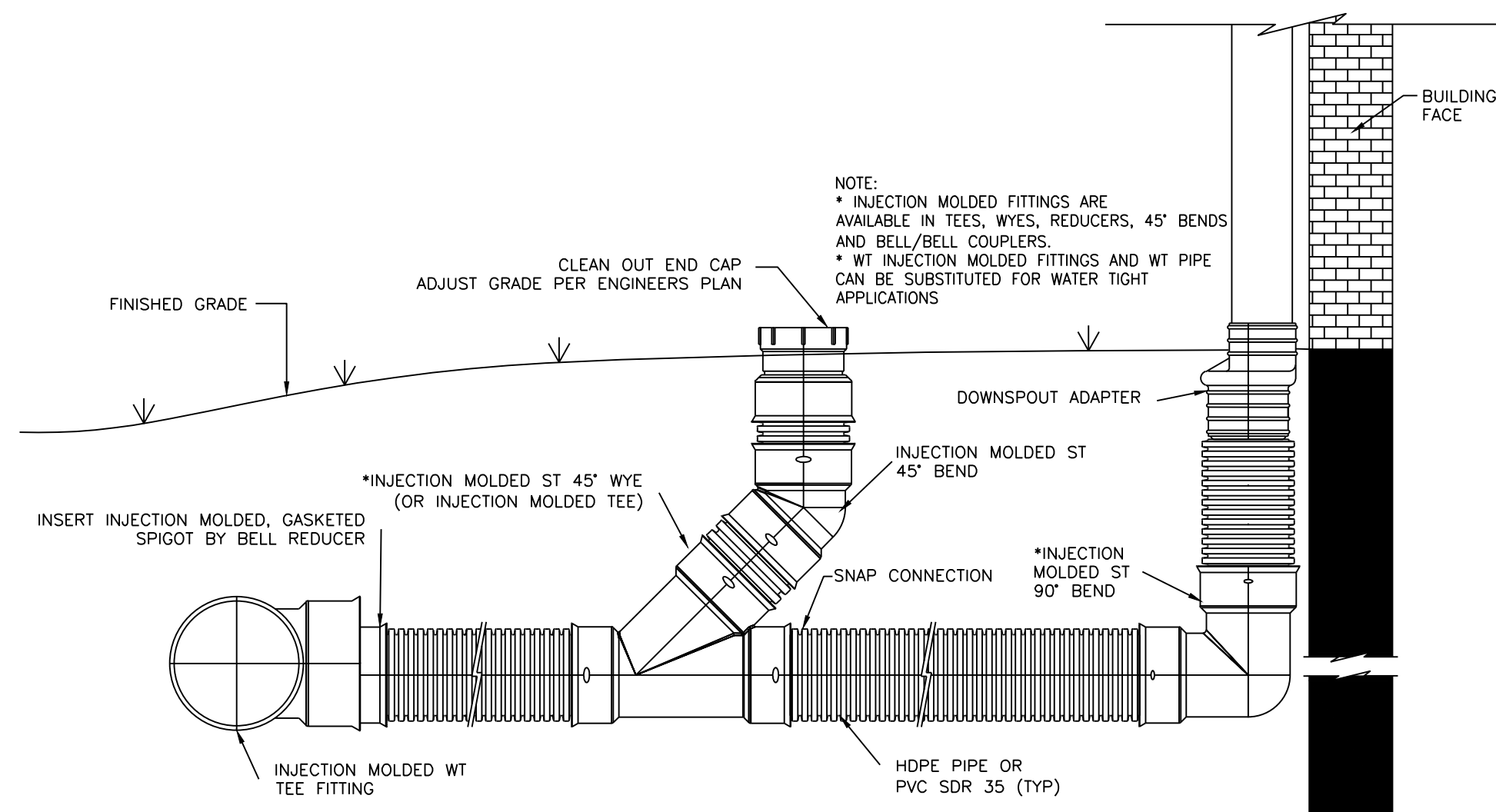
- NOTES:
1. DRIVE 5-FOOT STEEL POSTS 2 FEET INTO THE GROUND SURROUNDING THE INLET. SPACE POSTS EVENLY AROUND THE PERIMETER OF THE INLET, A MAXIMUM OF 4 FEET APART.
 2. SURROUND THE POSTS WITH WIRE MESH HARDWARE CLOTH. SECURE THE WIRE MESH TO THE STEEL POSTS AT THE TOP, MIDDLE, AND BOTTOM. PLACING A 1-FOOT FLAP OF THE WIRE MESH UNDER THE GRAVEL FOR ANCHORING IS RECOMMENDED.
 3. PLACE CLEAN GRAVEL (NC DOT #5 OR #57 STONE) ON A 2:1 SLOPE WITH A MIN HEIGHT OF 16 INCHES AROUND THE WIRE, AND SMOOTH TO AN EVEN GRADE.

STANDARD INLET PROTECTION
NOT TO SCALE



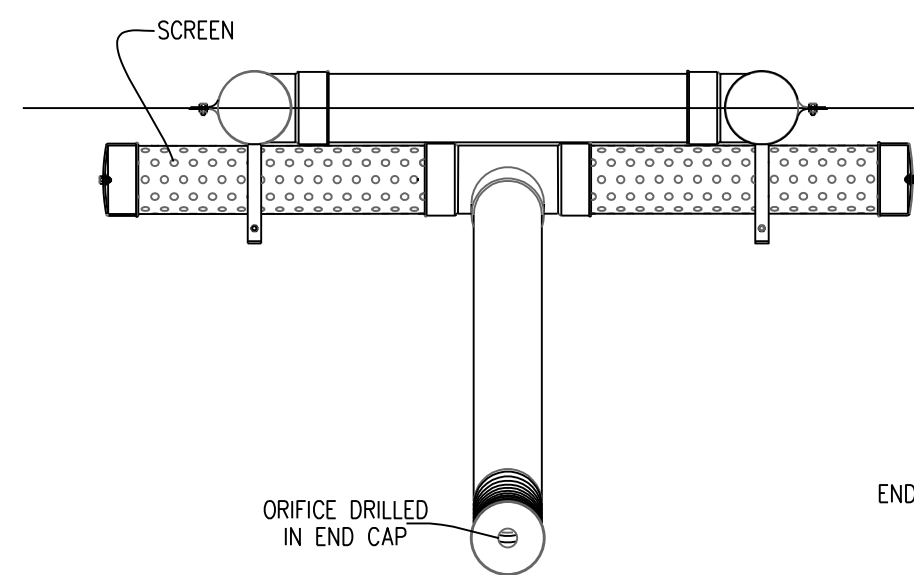
- NOTE:
- TEMPORARY INLET SEDIMENT FILTER TO BE INSTALLED ON ALL PAVED CATCH BASINS OR STORM INLETS.

SILT SACK DETAIL
NOT TO SCALE

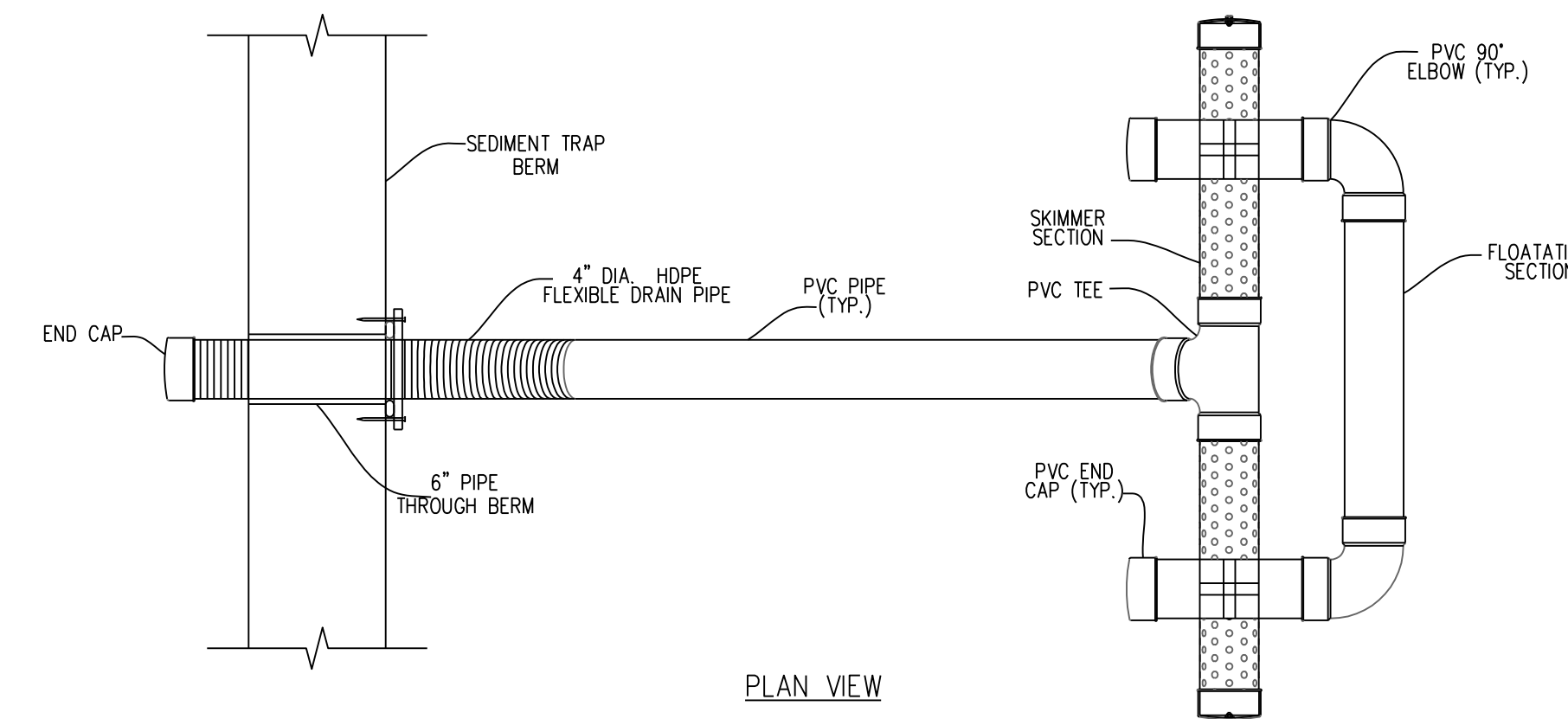


ROOF DRAIN DETAIL WITH CLEANOUT
N.T.S.

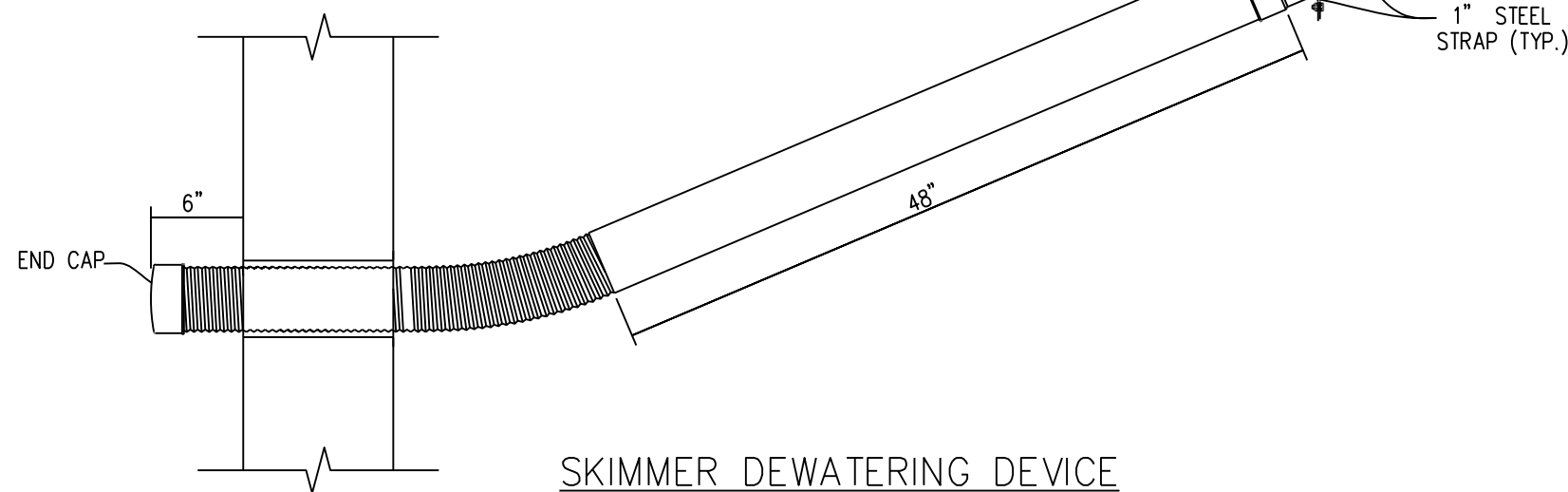
- NOTES:
1. ALL P.V.C. PIPES ARE TO BE 4" I.D., SCHEDULE 40
 2. ALL JOINTS OF THE FLOATATION SECTION SHALL BE SOLVENT WELDED. JOINTS OF SKIMMER SECTION NEED NOT BE WATER-TIGHT.
 3. 4" HDPE FLEXIBLE DRAIN PIPE IS TO BE ATTACHED TO THE POND OUTLET STRUCTURE WITH WATER-TIGHT CONNECTIONS.
 4. ORIFICE IS TO BE SIZED ACCORDING TO STORAGE VOLUME AND TO SLOWLY RELEASE 1" RUNOFF FOR AT LEAST 24-HOURS.



FRONT VIEW

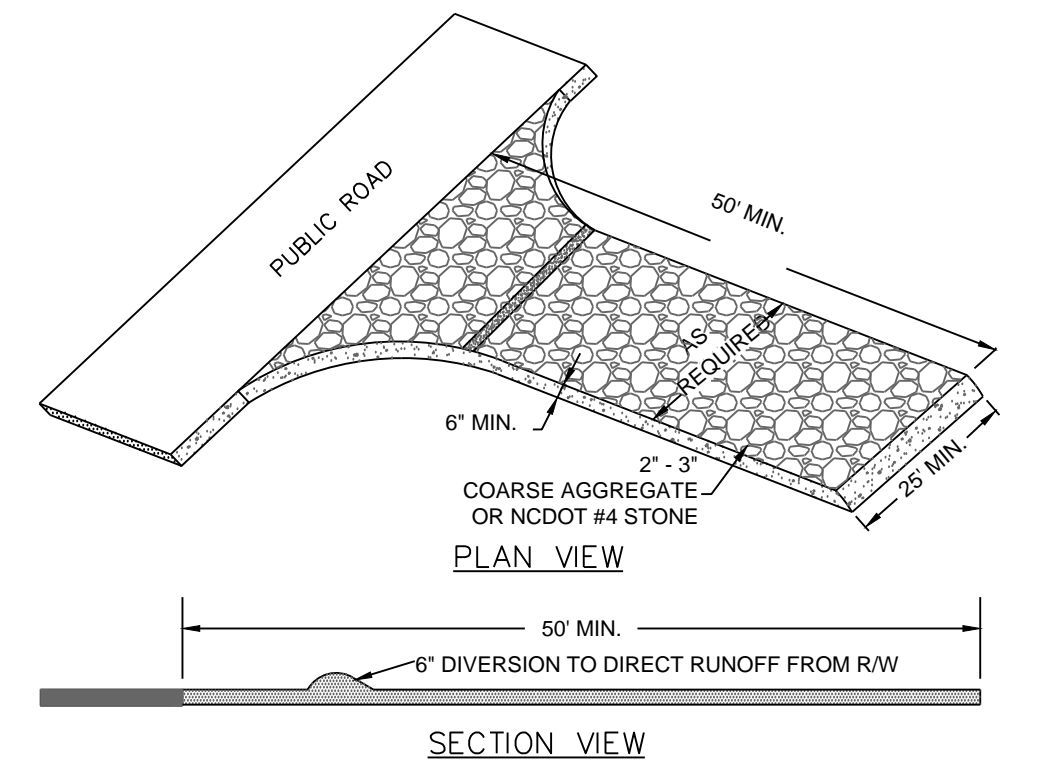


PLAN VIEW

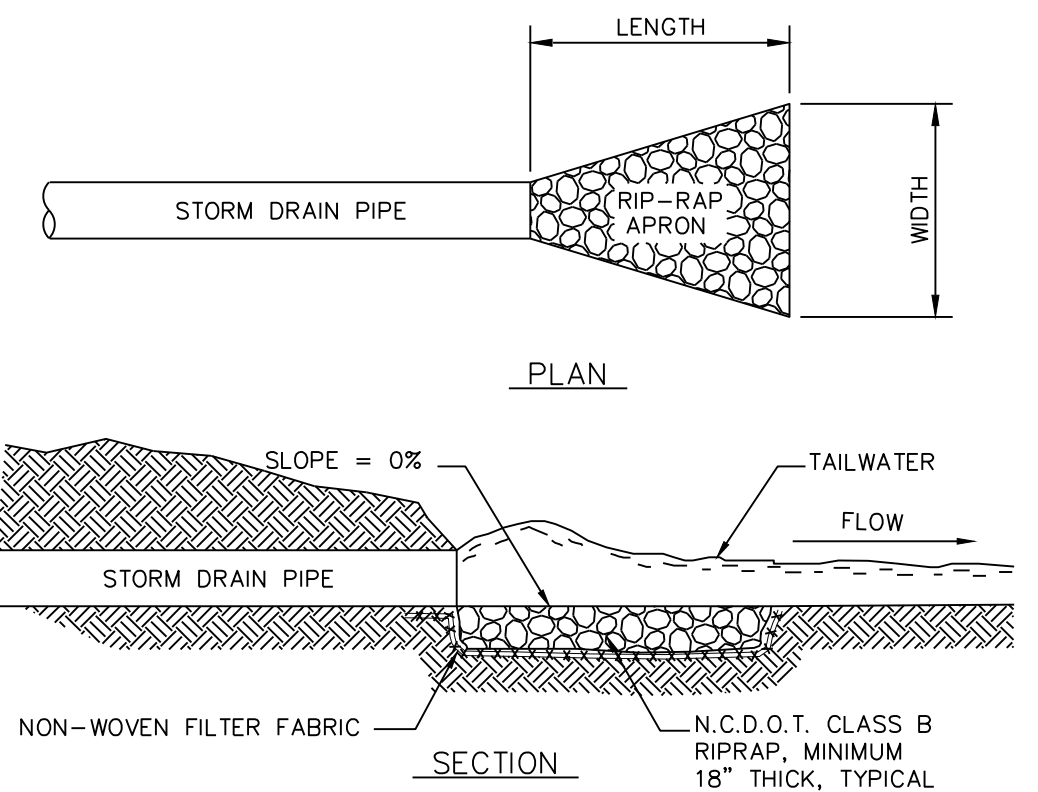


SKIMMER DEWATERING DEVICE
N.T.S.

- SEQUENCE OF CONSTRUCTION
LIMITS OF CONSTRUCTION = 12.26 ACRES
1. INSTALL TEMPORARY CONSTRUCTION ENTRANCE AS SHOWN ON EROSION & SEDIMENT CONTROL PLAN.
 2. INSTALL PERIMETER CONTROLS (TEMPORARY SILT FENCE, TREE PROTECTION FENCING) AS SHOWN ON THE EROSION & SEDIMENT CONTROL PLAN. THIS STEP NEEDS TO BE COMPLETED PRIOR TO UPSLOPE LAND DISTURBING ACTIVITIES.
 3. THE EXISTING WET DETENTION BASIN WILL ACT AS A SEDIMENT BASIN DURING CONSTRUCTION ACTIVITIES.
 4. ONCE PERIMETER CONTROLS AND SEDIMENT TRAPPING MEASURES ARE INSTALLED CLEAR AND GRUB SITE WITHIN LIMITS OF DISTURBANCE. THE SEDIMENT BASIN WILL BE PUMPED DOWN BY MECHANICAL MEANS AS NEEDED TO MUCK OUT SEDIMENT WHEN THE SEDIMENT REACHES 50% CAPACITY.
 5. UPON BRINGING THE SITE TO ROUGH GRADE, STABILIZE ALL AREAS WITH TEMPORARY VEGETATION IF LEFT UNDISTURBED FOR 15 WORKING DAYS AND ALL SLOPES WITHIN 21 CALENDAR DAYS.
 6. ONCE THE PARKING AREAS, SANITARY SEWERS, WATERLINES AND STORM SEWERS ARE IN PLACE, INSTALL INLET PROTECTION AS SHOWN ON THE EROSION & SEDIMENT CONTROL PLAN.
 7. UPON BRINGING THE PARKING AREA TO SUBGRADE ELEVATIONS, STABILIZE THE AREAS BY PLACING STONE BASE AS EARLY AS POSSIBLE.
 8. FOR TEMPORARY VEGETATIVE STABILIZATION OF ALL DENUDED AREAS SEE NOTE REFERENCING THE EROSION CONTROL PROGRAM AND SPECIFICATIONS ON SHEET C-1.
 9. AFTER CONSTRUCTION OPERATIONS HAVE ENDED AND ALL DISTURBED AREAS HAVE BEEN STABILIZED, MECHANICAL SEDIMENT CONTROLS SHALL BE REMOVED. SEDIMENT FROM TEMPORARY SEDIMENT TRAPPING DEVICES SHALL BE DISPOSED OF BY SPREADING ON THE SITE OR HAULING AWAY IF NOT SUITABLE FOR FILL. ALL DENUDED AREAS ARE TO BE PERMANENTLY STABILIZED WITH PERMANENT VEGETATION.



TEMPORARY CONSTRUCTION ENTRANCE
N.T.S.



RIP-RAP LOCATIONS	LENGTH (FT.)	UPSTREAM WIDTH (FT.)	DOWNSTREAM WIDTH (FT.)
15" CULVERTS	3.75	5.0	7.5
18" CULVERTS	4.5	6.0	9.0
24" CULVERTS	6.0	8.0	12.0
60" CULVERTS	15.0	20.0	30.0

RIP-RAP OUTLET PROTECTION
N.T.S.

Approved Construction Plan

Name _____ Date _____

Planning _____

Traffic _____

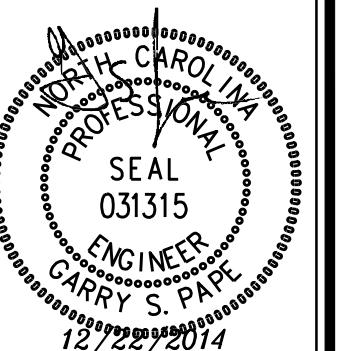
Fire _____

Public Services • Engineering Division
APPROVED STORMWATER MANAGEMENT PLAN

Date: _____ Permit # _____

Signed: _____

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



No.	Revision	Date	By

Designer	GSP	Scale	1" = 30'
Drawn By	GSP	Date	December 2014
License #	P-0718	Job No.	2014-0006

BELLE MEADE APARTMENTS
 Wilmington New Hanover County North Carolina

STANDARD DETAILS

PREPARED FOR:
 BELLE MEADE DEVELOPMENT PARTNERS, LLC
 6626-C GORDON ROAD
 WILMINGTON, NC 28411
 910-799-3006

GSP CONSULTING, PLLC
 ENGINEERING
 6626 Gordon Road Unit C Wilmington, North Carolina 28411 tel: 910-442-7870 fax: 910-799-6659

Sheet No.
C-9