

TREE TYPE	SAVE/REMOVE
5" MAGNOLIA	SAVE
5" MAGNOLIA	SAVE
5" MAGNOLIA	SAVE
5" DOGWOOD	REMOVE
7" MAGNOLIA	SAVE
8" MAGNOLIA	SAVE
8" WATER OAK	REMOVE
9" LIVE OAK	REMOVE
8" & 9" DOUBLE OAK	SAVE
10" WATER OAK	SAVE
10" WATER OAK	REMOVE
11" BAY	SAVE
11" HICKORY	SAVE
12" HICKORY	SAVE
12" WATER OAK	SAVE
12" WATER OAK	SAVE
15" PINE	REMOVE
16" LIVE OAK	REMOVE
16" WATER OAK	REMOVE
17" SWEET GUM	REMOVE
18" MAPLE	SAVE
21" HICKORY	REMOVE
22" PINE	REMOVE
24" LIVE OAK	REMOVE
26" HEMLOCK	REMOVE
26" PINE	REMOVE
26" PINE	SAVE
26" PINE	SAVE
30" PINE	SAVE
30" PINE	SAVE
32" PINE	REMOVE

Jeanne S. Chase
Lot 27 Wood Acres
Deed Book 9801, Page 2413
Map Book 5, Page 123
Zoning R-15
Residential

Arthur Ard
Lot 26 Wood Acres
Deed Book 5838, Page 72
Map Book 5, Page 123
Zoning R-15
Residential

Jennifer L. & Michael J. Connolly
Lot 25 Wood Acres
Deed Book 5619, Page 1968
Map Book 5, Page 123
Zoning R-15
Residential

C. & Donna C. Johnson
Wood Acres
Deed Book 26, Page 893
Map Book 5, Page 123
Zoning R-15
Residential

Hewlett's Run Homeowners Association
Deed Book 2251, Page 928
Map Book 37, Page 183
Zoning R-15
Residential

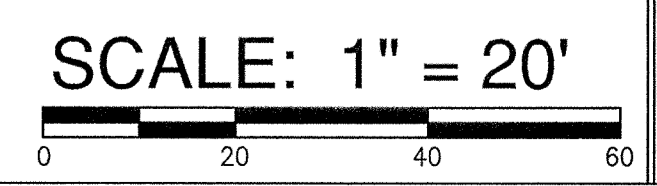
WILMINGTON
NORTH CAROLINA
Public Services • Engineering Division
APPROVED STORMWATER MANAGEMENT PLAN
Date: _____ Permit # _____
Signed: _____

Approved Construction Plan

Name	Date
Planning	
Traffic	
Fire	

LEGEND

	PROPERTY LINE
	RIGHT OF WAY
	EXISTING CONTOUR
	EXISTING SPOT ELEVATION
	EXISTING TREE TO BE SAVE
	EXISTING TREE TO BE REMOVED



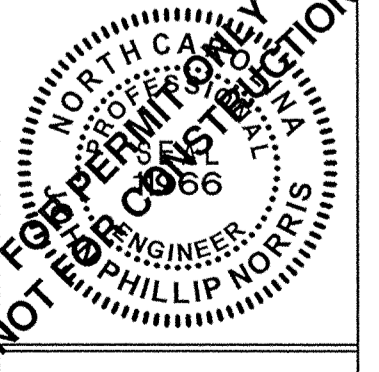
SYMBOL	DATE	DESCRIPTION	BY
		REVISIONS	

DEMOLITION PLAN
DOLLAR GENERAL - PINE GROVE
810 PINE GROVE DRIVE
NEW HANOVER COUNTY, NORTH CAROLINA

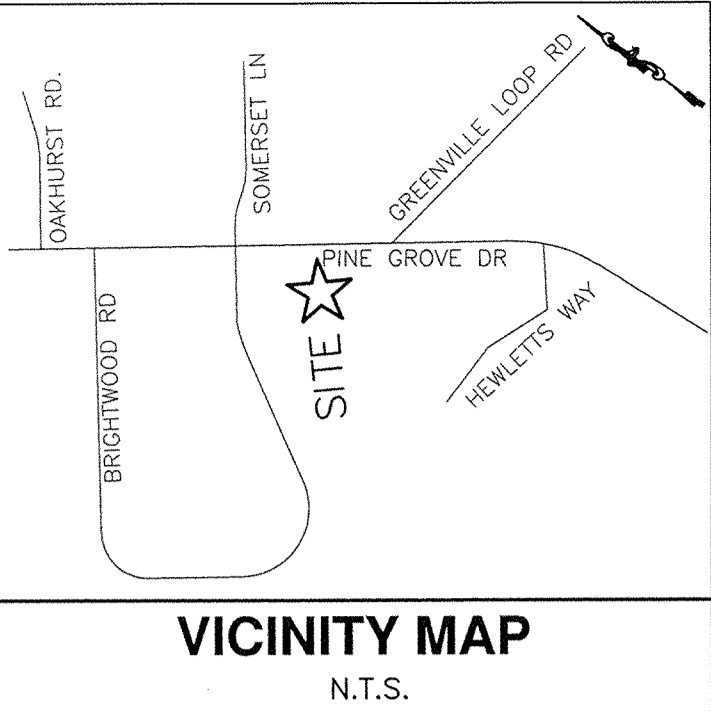
OWNER:
PAR 5 DEVELOPMENT, LLC
2860-B NC HWY 5
ABERDEEN, NC 28315
(P) 910-944-0881
lee@theconcompanies.com

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

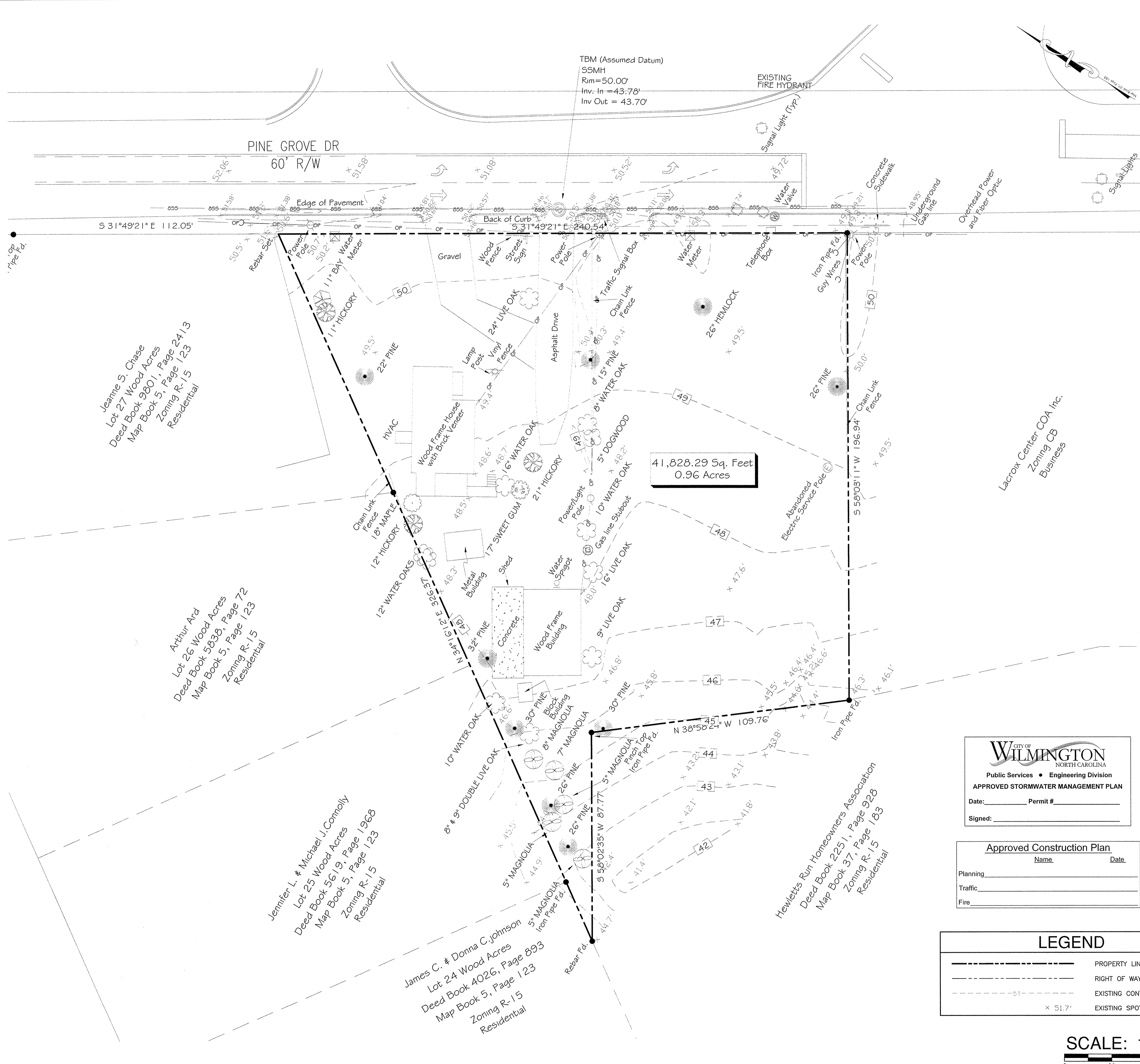
Licence #C-3641
17145
DES. JPN
CKD. JPN
DRWL. EDB
DATE 08/09/18



C1.1



SITE INVENTORY DATA	
PLAN PREPARER:	NORRIS & TUNSTALL CONSULTING ENGINEERS.
APPLICANT NAME:	J. PHILLIP NORRIS, P.E.
SITE ADDRESS:	810 PINE GROVE DR.
PROPERTY OWNER:	FRANK McNEILL AND CARITA McNEILL
DEVELOPER:	PAR 5 DEVELOPMENT GROUP, LLC
PARCEL #:	R06116-001-004-000
ZONING:	CB
ADJACENT PROPERTY OWNER:	SEE SITE PLAN
VICINITY MAP:	SEE PLAN
TOPOGRAPHIC DATA:	SEE PLAN
100 YR FLOOD ELEVATION:	N/A
LOCATION OF WATER FEATURES:	N/A
SOILS TYPE:	Bh, JO
CAMA DATA:	N/A
CAMA CLASSIFICATION:	URBAN
CONSERVATION RESOURCES:	N/A
RECOGNIZED SITE:	N/A
CEMETERIES:	N/A
FORESTED AREAS:	N/A
WETLANDS:	N/A
PROTECTED SPECIES:	N/A
TRANSPORTATION DATA:	SEE PLAN



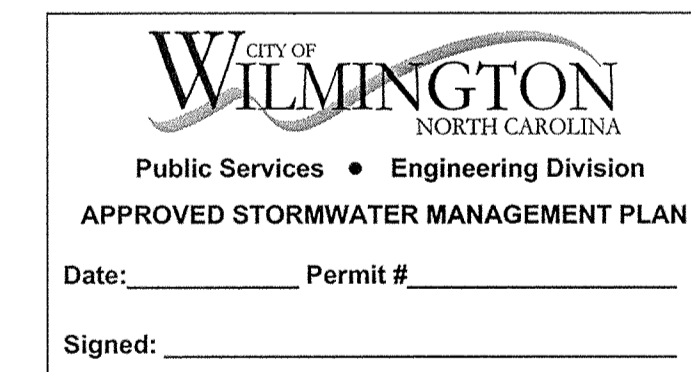
Jeanne S. Chase
Lot 27 Wood Acres
Deed Book 9801, Page 2413
Map Book 5, Page 123
Zoning R-15
Residential

Arthur Atd
Lot 26 Wood Acres
Deed Book 5838, Page 72
Map Book 5, Page 123
Zoning R-15
Residential

Jennifer L. & Michael J. Connelly
Lot 25 Wood Acres
Deed Book 5619, Page 1988
Map Book 5, Page 123
Zoning R-15
Residential

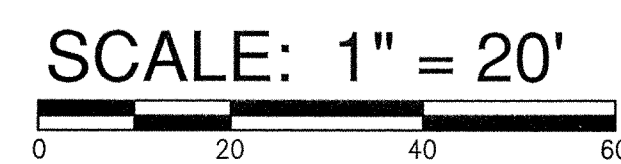
James C. & Donna C. Johnson
Lot 24 Wood Acres
Deed Book 4026, Page 893
Map Book 5, Page 123
Zoning R-15
Residential

Hewletts Run Homeowners Association
Deed Book 2251, Page 928
Map Book 37, Page 183
Zoning R-15
Residential



Approved Construction Plan	
Name	Date
Planning	
Traffic	
Fire	

LEGEND	
	PROPERTY LINE
	RIGHT OF WAY
	EXISTING CONTOUR
	EXISTING SPOT ELEVATION



SYMBOL	DATE	DESCRIPTION	BY
		REVISIONS	

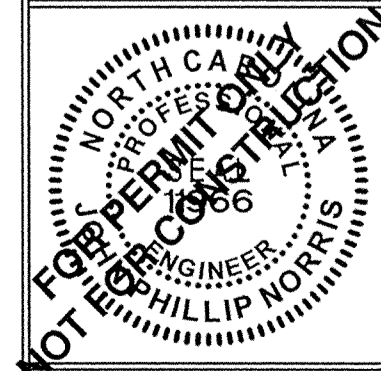
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SITE INVENTORY PLAN
DOLLAR GENERAL - PINE GROVE
810 PINE GROVE DRIVE
NEW HANOVER COUNTY, NORTH CAROLINA

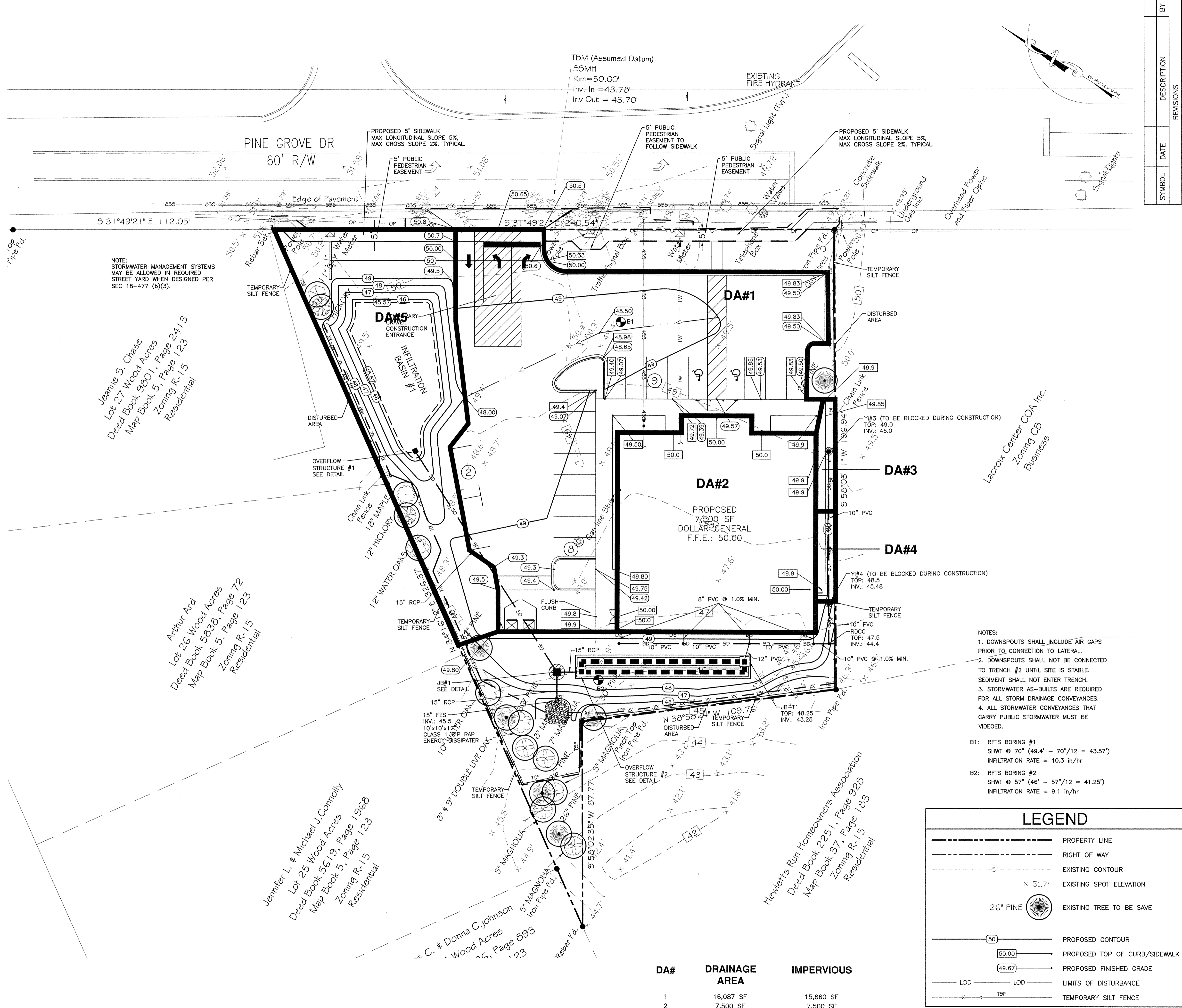
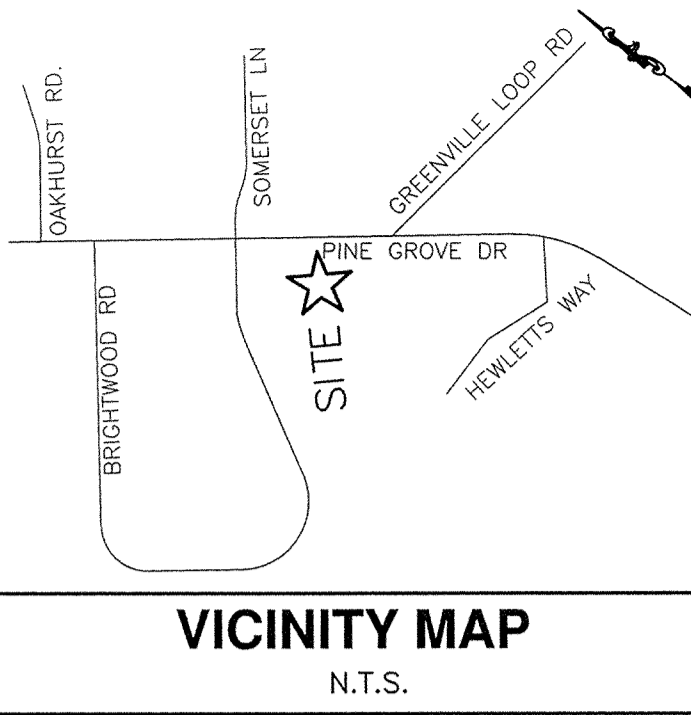
OWNER:
 PAR 5 DEVELOPMENT, LLC
 2860-B NC HWY 5
 ABERDEEN, NC 28315
 (P) 910-944-0881
 lee@thetsoncompanies.com

NORRIS & TUNSTALL
 CONSULTING ENGINEERS P.C.
 1429 ASH-LITTLE RIVER RD NW
 ASH, NC 28420
 WILMINGTON, NC 28401
 PHONE (910) 343-9653

Licence #C-3641
17145
 DES. JPN
 CKD. JPN
 DRWN. EDB
 DATE 08/09/18



C1



NOTE:
STORMWATER MANAGEMENT SYSTEMS
MAY BE ALLOWED IN REQUIRED
STREET YARD WHEN DESIGNED PER
SEC 18-477 (b)(3).

Jeanne S. Chase
Lot 27 Wood Acres
Map Book 9001, Page 24, 13
Zoning R-15
Residential

Arthur Ad
Lot 26 Wood Acres
Map Book 5838, Page 72
Zoning R-15
Residential

Jennifer L. & Michael J. Connolly
Lot 25 Wood Acres
Map Book 5619, Page 19, 68
Zoning R-15
Residential

C. # Donna C. Johnson
Wood Acres
Map Book 23, Page 893

Hewlett's Run Homeowners Association
Deed Book 2251, Page 928
Map Book 37, Page 183
Zoning R-15
Residential

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 2. DOWNSPOUTS SHALL NOT BE CONNECTED TO TRENCH #2 UNTIL SITE IS STABLE. SEDIMENT SHALL NOT ENTER TRENCH.
 3. STORMWATER AS-BUILTS ARE REQUIRED FOR ALL STORM DRAINAGE CONVEYANCES.
 4. ALL STORMWATER CONVEYANCES THAT CARRY PUBLIC STORMWATER MUST BE VIDEOED.
- B1: RFTS BORING #1
SHWT @ 70" (49.4' - 70"/12 = 43.57')
INFILTRATION RATE = 10.3 in/hr
- B2: RFTS BORING #2
SHWT @ 57" (46' - 57"/12 = 41.25')
INFILTRATION RATE = 9.1 in/hr

LEGEND	
	PROPERTY LINE
	RIGHT OF WAY
	EXISTING CONTOUR
	EXISTING SPOT ELEVATION
	EXISTING TREE TO BE SAVE
	PROPOSED CONTOUR
	PROPOSED TOP OF CURB/SIDEWALK
	PROPOSED FINISHED GRADE
	LIMITS OF DISTURBANCE
	TEMPORARY SILT FENCE

DA#	DRAINAGE AREA	IMPERVIOUS
1	16,087 SF	15,660 SF
2	7,500 SF	7,500 SF
3	459 SF	205 SF
4	405 SF	179 SF
5	7,467 SF	380 SF

SCALE: 1" = 20'

SYMBOL	DATE	DESCRIPTION	BY
		REVISIONS	

DRAINAGE AREA MAP
DOLLAR GENERAL - PINE GROVE
810 PINE GROVE DRIVE
NEW HANOVER COUNTY, NORTH CAROLINA

OWNER:
 PAR 5 DEVELOPMENT, LLC
 2860-B NC HWY 5
 ABERDEEN, NC 28315
 (P) 910-944-0881
 lee@thetsoncompanies.com

NORRIS & TUNSTALL
 CONSULTING ENGINEERS P.C.

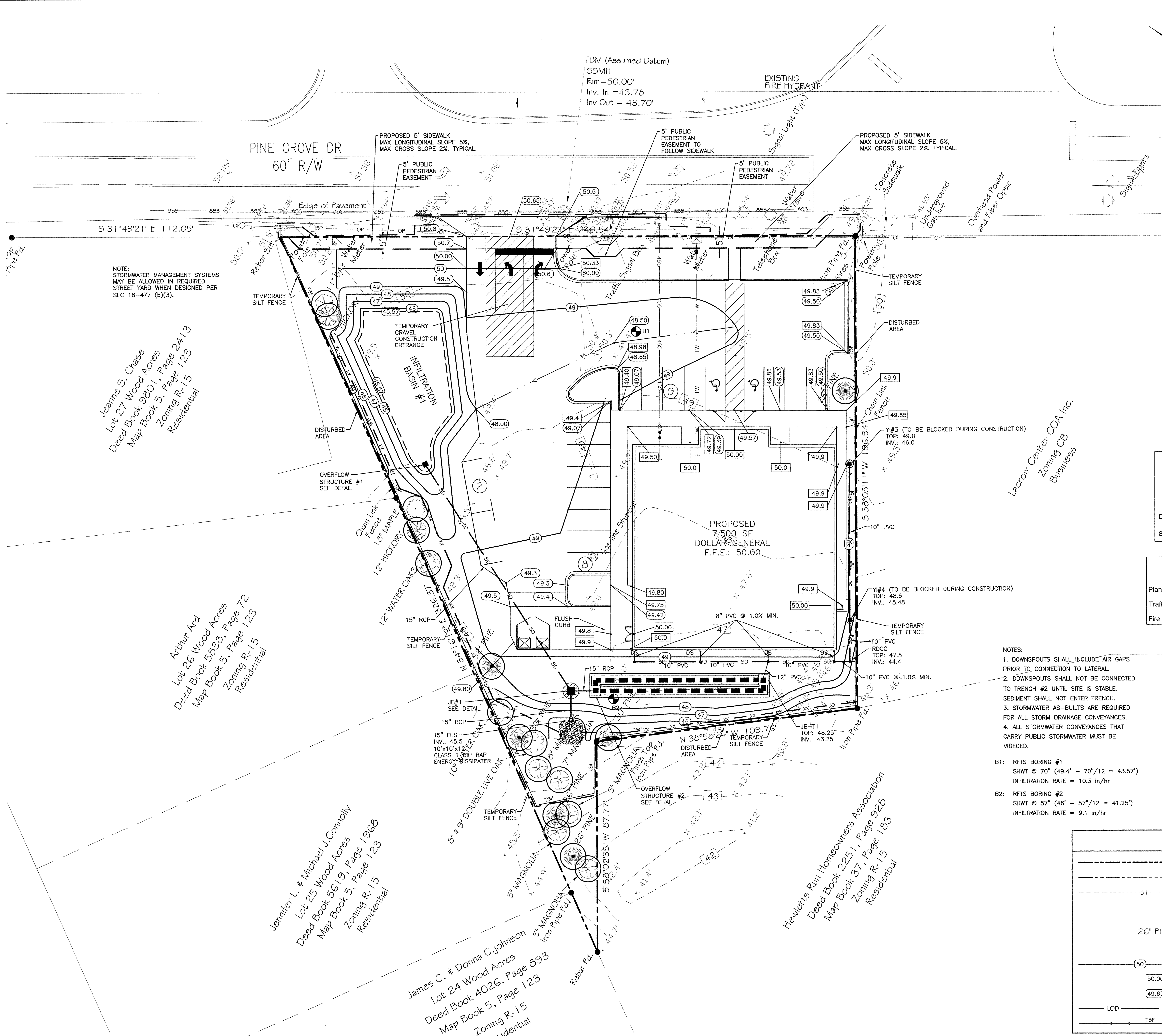
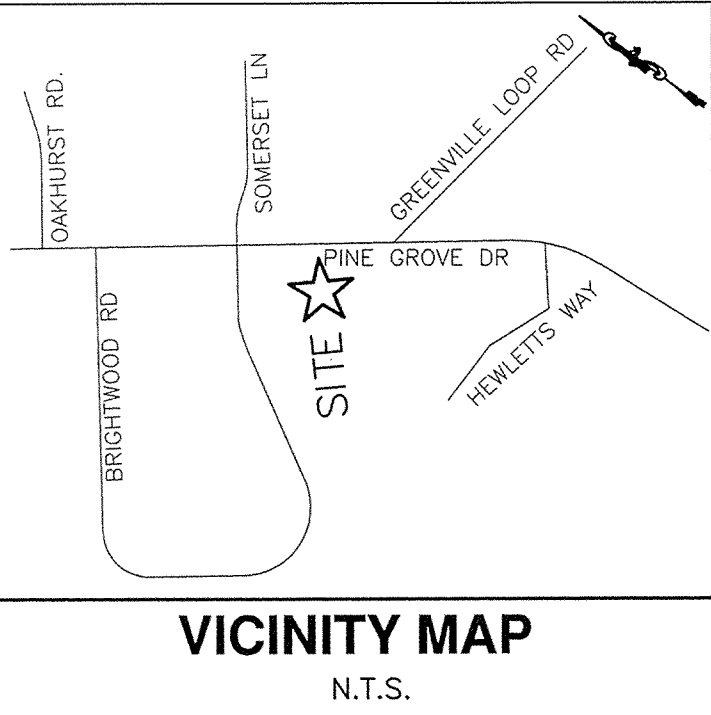
1429 ASH-LITTLE RIVER RD, NW
 ASH, NC 28420
 PHONE (910) 287-5900

902 MARKET STREET
 WILMINGTON, NC 28401
 PHONE (910) 343-9653

Licence #C-3641
17145
 DES. JPN
 CKD. JPN
 DRWN. EDB
 DATE 08/09/18

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C2.1



NOTE: STORMWATER MANAGEMENT SYSTEMS MAY BE ALLOWED IN REQUIRED STREET YARD WHEN DESIGNED PER SEC 16-477 (b)(3).

Jeanne S. Chase
Lot 27 Wood Acres
Deed Book 9801, Page 2413
Map Book 5, Page 123
Zoning R-15
Residential

Arthur Ard
Lot 26 Wood Acres
Deed Book 5838, Page 72
Map Book 5, Page 123
Zoning R-15
Residential

Jennifer L. & Michael J. Connolly
Lot 25 Wood Acres
Deed Book 5619, Page 1968
Map Book 5, Page 123
Zoning R-15
Residential

James C. & Donna C. Johnson
Lot 24 Wood Acres
Deed Book 4026, Page 893
Map Book 5, Page 123
Zoning R-15
Residential

Hewlett's Run Homeowners Association
Deed Book 2251, Page 928
Map Book 37, Page 183
Zoning R-15
Residential

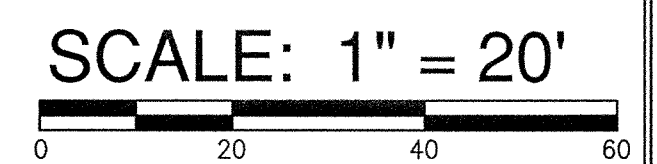
Lacroix Center COA Inc.
Zoning CB
Business

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

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

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SHWT @ 57' (46' - 57'/12 = 41.25")
INFILTRATION RATE = 9.1 in/hr

LEGEND	
	PROPERTY LINE
	RIGHT OF WAY
	EXISTING CONTOUR
	EXISTING SPOT ELEVATION
	EXISTING TREE TO BE SAVE
	PROPOSED CONTOUR
	PROPOSED TOP OF CURB/SIDEWALK
	PROPOSED FINISHED GRADE
	LIMITS OF DISTURBANCE
	TEMPORARY SILT FENCE



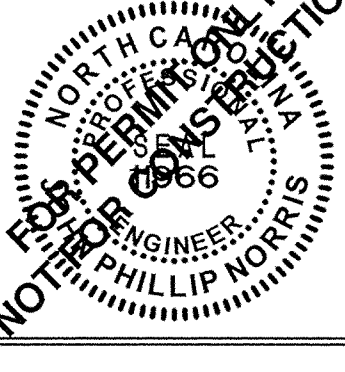
SYMBOL	DATE	DESCRIPTION	BY
		REVISIONS	

GRADING PLAN
DOLLAR GENERAL - PINE GROVE
810 PINE GROVE DRIVE
NEW HANOVER COUNTY, NORTH CAROLINA

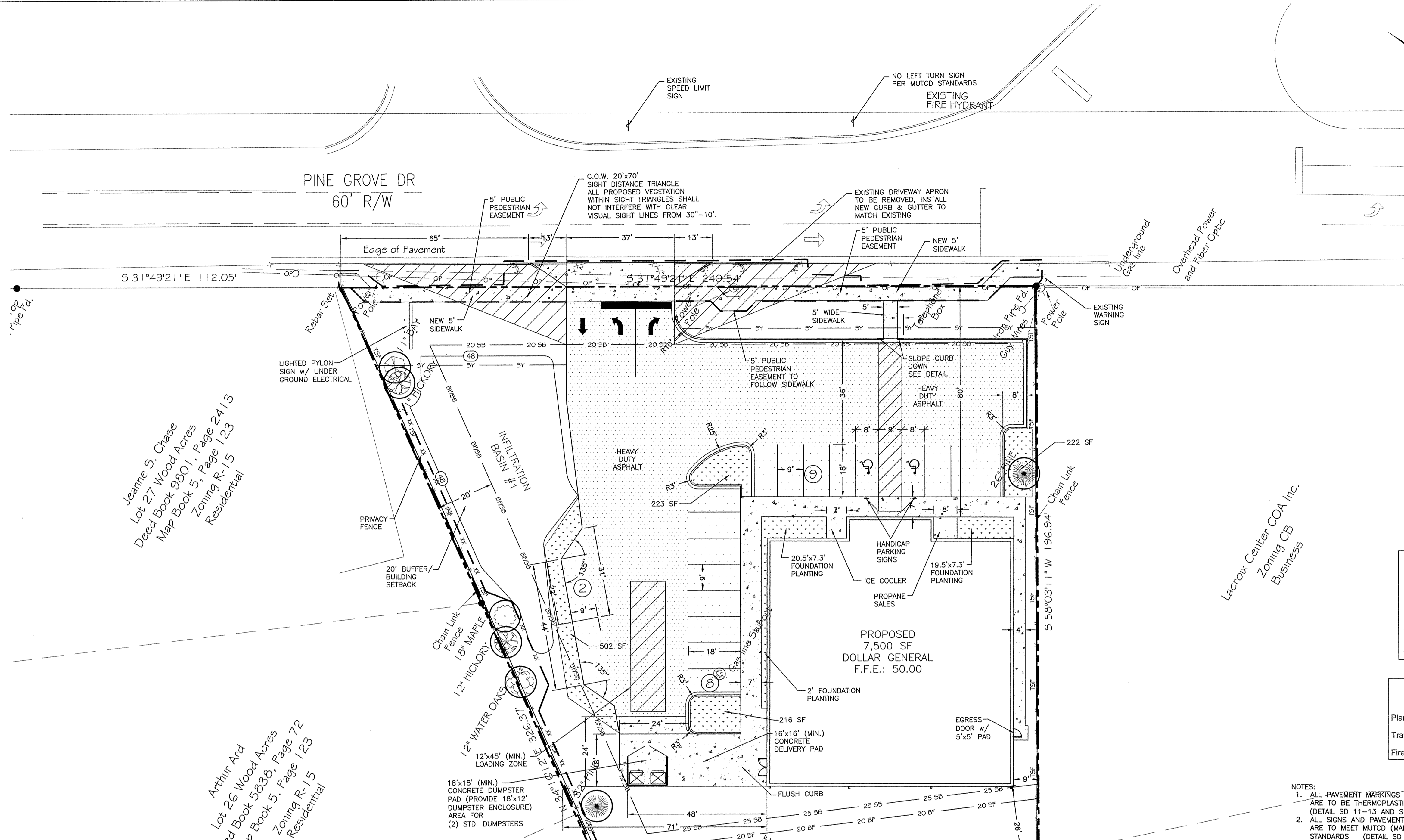
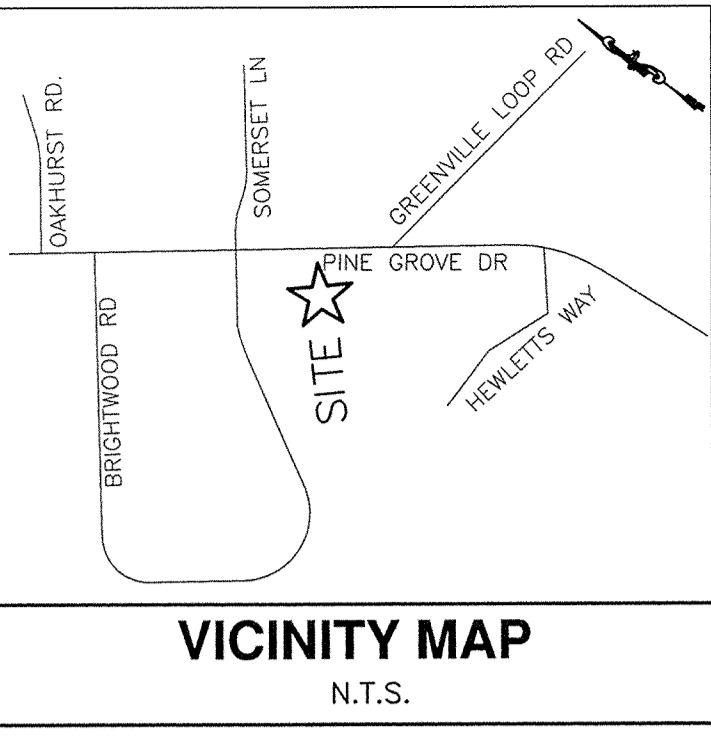
OWNER:
PAR 5 DEVELOPMENT, LLC
2860-B NC HWY 5
ABERDEEN, NC 28315
(P) 910-944-0881
lec@thetsoncompanies.com

NORRIS & TUNSTALL
CONSULTING ENGINEERS P.C.
1429 ASH-LITTLE RIVER RD NW
ASH, NC 28420
WILMINGTON, NC 28401
PHONE (910) 343-9653

Licence #C-3641
17145
DES. JPN
CHK. JPN
DRWN. EDB
DATE 08/09/18



C2



SYMBOL	DATE	DESCRIPTION	BY
		REVISIONS	

LAYOUT PLAN
DOLLAR GENERAL - PINE GROVE
810 PINE GROVE DRIVE
NEW HANOVER COUNTY, NORTH CAROLINA

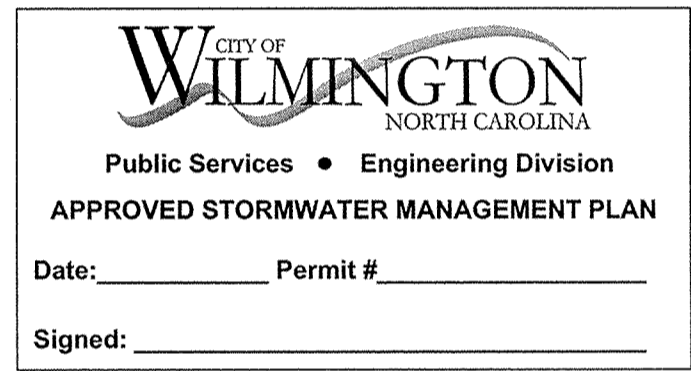
Jeanne S. Chase
 Lot 27 Wood Acres
 Deed Book 9801, Page 2413
 Map Book 5, Page 123
 Zoning R-15
 Residential

Arthur Ard
 Lot 26 Wood Acres
 Deed Book 5038, Page 72
 Map Book 5, Page 123
 Zoning R-15
 Residential

Jennifer L. & Michael J. Connolly
 Lot 25 Wood Acres
 Deed Book 5619, Page 1968
 Map Book 5, Page 123
 Zoning R-15
 Residential

James C. & Donna C. Johnson
 Lot 24 Wood Acres
 Deed Book 4026, Page 893
 Map Book 5, Page 123
 Zoning R-15
 Residential

Hewlett's Run Homeowners Association
 Deed Book 2251, Page 928
 Map Book 37, Page 183
 Zoning R-15
 Residential



Approved Construction Plan	
Name	Date
Planning	
Traffic	
Fire	

- NOTES:
- ALL PAVEMENT MARKINGS IN PUBLIC RIGHTS OF WAY AND FOR DRIVEWAYS ARE TO BE THERMOPLASTIC AND MEET CITY AND/OR NC DOT STANDARDS. (DETAIL SD 11-13 AND SD 15-13 CoW TECHNICAL STANDARDS).
 - ALL SIGNS AND PAVEMENT MARKINGS IN OPEN AREAS TO PUBLIC TRAFFIC ARE TO MEET MUTCD (MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES) STANDARDS (DETAIL SD 15-13 CoW TECHNICAL STANDARDS).
 - ALL TRAFFIC CONTROL SIGNS AND MARKINGS OFF THE RIGHT-OF-WAY ARE TO BE MAINTAINED BY THE PROPERTY OWNER IN ACCORDANCE WITH MUTCD STANDARDS.
 - ALL PARKING STALL MARKINGS AND LANE ARROWS WITHIN THE PARKING AREAS SHALL BE WHITE.
 - A UTILITY CUT PERMIT IS REQUIRED FOR EACH OPEN CUT OF A CITY STREET. CONTACT 341-5888 FOR MORE DETAILS. IN CERTAIN CASES AN ENTIRE RESURFACING OF THE AREA BEING OPEN CUT MAY BE REQUIRED.
 - ANY BROKEN OR MISSING SIDEWALK PANELS, DRIVEWAY PANELS AND CURBING WILL BE REPLACED.
 - CONTACT TRAFFIC ENGINEERING AT 341-7888 FORTY-EIGHT HOURS PRIOR TO ANY EXCAVATION IN THE RIGHT OF WAY.
 - CONTRACTOR SHALL MAINTAIN AN ALL WEATHER ACCESS FOR EMERGENCY VEHICLES AT ALL TIMES DURING CONSTRUCTION.
 - ADDITIONAL FIRE PROTECTION AND ACCESSIBILITY REQUIREMENTS MAY BE REQUIRED DUE TO ANY SPECIAL CIRCUMSTANCES CONCERNING THE PROJECT.
 - 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.

LEGEND	
	PROPERTY LINE
	RIGHT OF WAY
	EXISTING TREE TO BE SAVE
	10' SETBACK
	10' BUFFER
	20' SETBACK
	20' BUFFER
	25' SETBACK
	20' BUFFER / BUILDING SETBACK

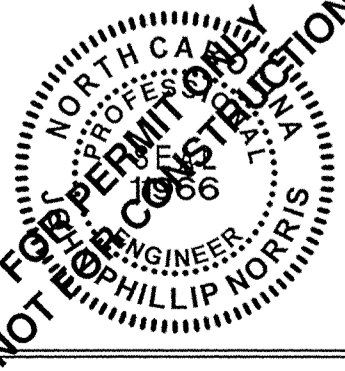
SITE DATA	
PARCEL NUMBER:	R06116-001-004-000
NEW SITE AREA:	41,828.29 SF / 0.96 AC
ZONING:	CB
DISTURBED AREA:	42,003 SF
BUILDING CONSTRUCTION TYPE:	2B
BUILDING USE:	RETAIL
BUILDING HEIGHT:	18' - 1 STORY - 7,500 SF
BUILDING LOT COVERAGE:	18%
WATER/SEWER DEMAND:	200 GALLONS PER DAY
BUILDING SETBACKS:	
FRONT:	20'
SIDE:	0' - ADJACENT TO RESIDENTIAL
REAR:	25' - ADJACENT TO RESIDENTIAL
BUFFER:	20' - ADJACENT TO RESIDENTIAL
EXISTING IMPERVIOUS:	
EXISTING IMPERVIOUS TO BE REMOVED:	5,275 SF
EXISTING IMPERVIOUS TO REMAIN:	0 SF
PROPOSED IMPERVIOUS AREA:	
BUILDING:	7,500 SF
DRIVE ISLE / PARKING:	13,345 SF
WALKS / CONCRETE:	3,620 SF
TOTAL IMPERVIOUS AREA: PROPOSED	24,465 SF/0.56 AC
% IMPERVIOUS:	59.0%
PROPOSED OFFSITE IMPERVIOUS AREA:	
ASPHALT:	250 SF
WALKS / CONCRETE:	130 SF
PARKING REQUIREMENTS:	
MINIMUM: 1 PER 400 SF	18.75 SPACES
MAXIMUM: 1 PER 200 SF	37.5 SPACES
PARKING PROVIDED:	
SPACES PROVIDED:	17 SPACES
HANDICAP SPACES PROVIDED:	2 SPACES (1 REQUIRED)
TOTAL SPACES PROVIDED:	19 SPACES
STREETVARD:	
MULTIPLIER:	18
REQUIRED: (240.54'-37') 18=3,663.72 SF	
PROVIDED:	3,729 SF
FOUNDATION PLANTING:	
REQUIRED: (FRONT) (18'x85') .12 = 183.6 SF	
PROVIDED: (FRONT)	220 SF
REQUIRED: (SIDE) (18'x58') .12 = 125.28 SF	
PROVIDED: (SIDE)	130 SF
BICYCLE PARKING REQUIRED:	5
BICYCLE PARKING PROVIDED:	5

SCALE: 1" = 20'

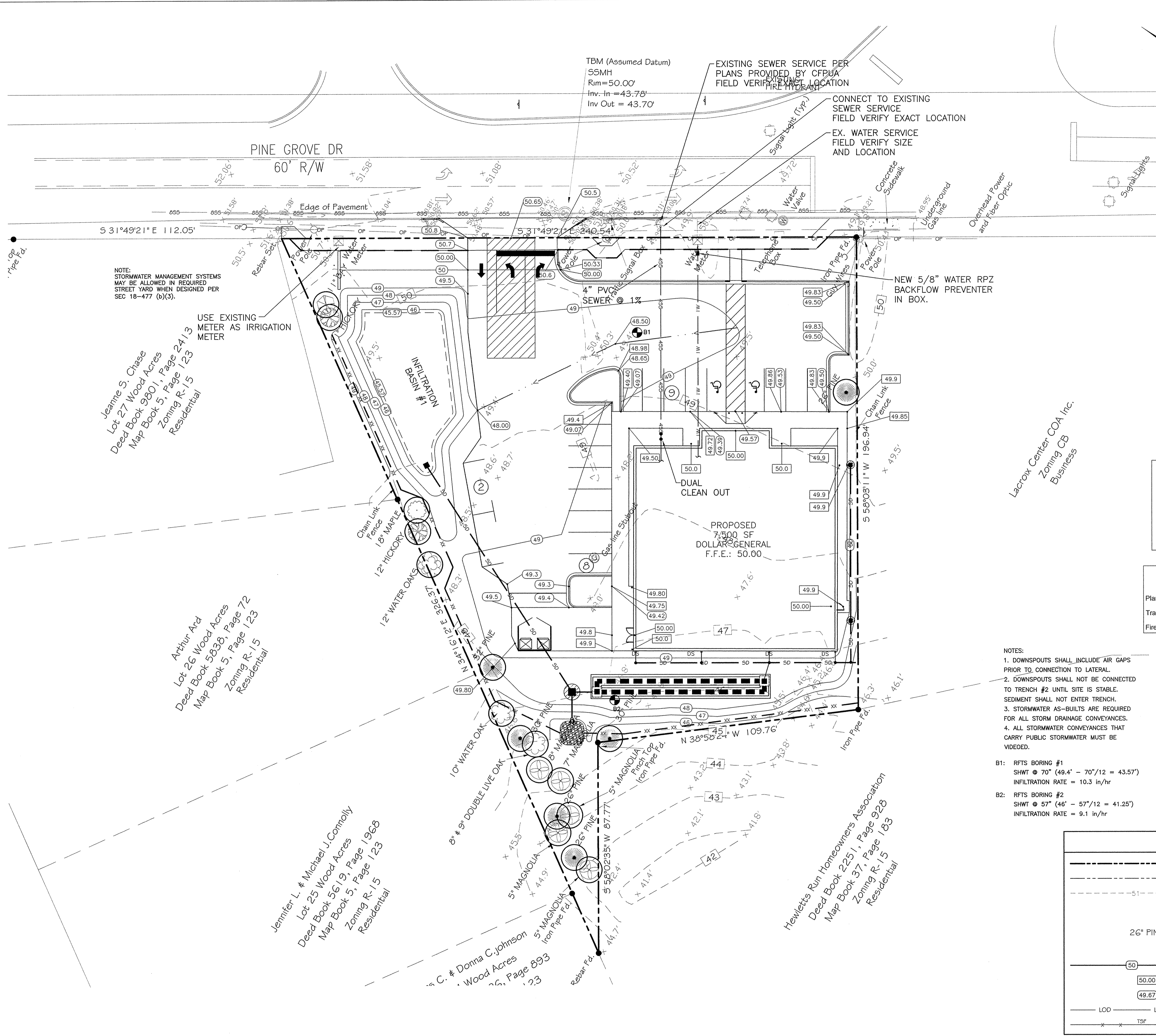
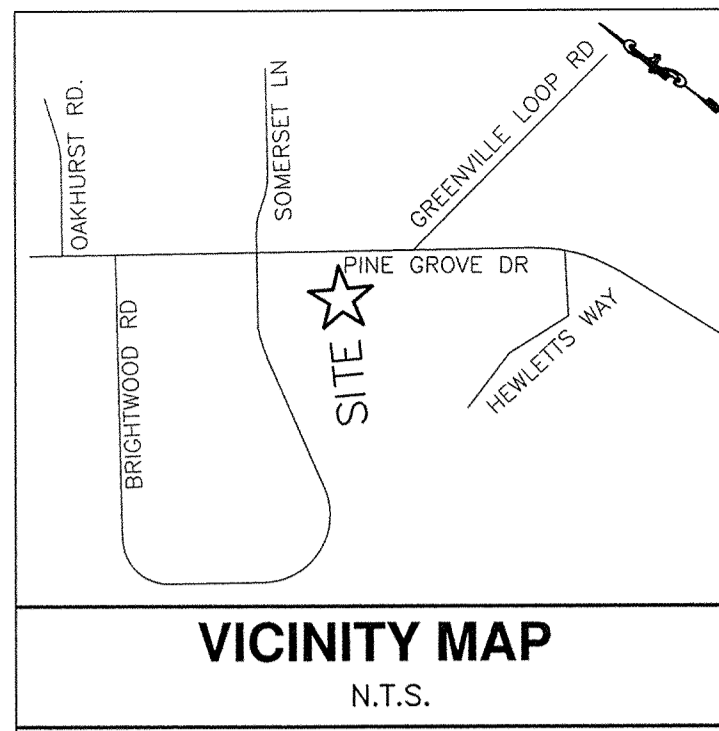
OWNER:
 PAR 5 DEVELOPMENT, LLC
 2860-B NC HWY 5
 ABERDEEN, NC 28315
 (P) 910-944-0881
 lee@thetsoncompanies.com

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 1429 ASH-LITTLE RIVER RD, NW
 WILMINGTON, NC 28401
 ASH, NC 28420
 PHONE (910) 343-9653

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17145
 DES. JPN
 CKD. JPN
 DRWN. EDB
 DATE 08/09/18



C3



NOTE:
STORMWATER MANAGEMENT SYSTEMS
MAY BE ALLOWED IN REQUIRED
STREET YARD WHEN DESIGNED PER
SEC 18-477 (b)(3).

USE EXISTING
METER AS IRRIGATION
METER

Jeanne S. Chase
Lot 27 Wood Acres
Deed Book 980, Page 2413
Map Book 5, Page 123
Zoning R-15
Residential

Arthur Ard
Lot 26 Wood Acres
Deed Book 5838, Page 72
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Jennifer L. & Michael J. Connolly
Lot 25 Wood Acres
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C. # Donna C. Johnson
Wood Acres
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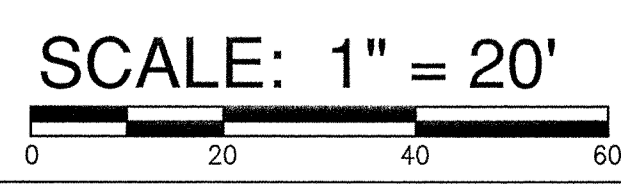
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SHWT @ 70" (49.4' - 70"/12 = 43.57')
INFILTRATION RATE = 10.3 in/hr
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SHWT @ 57" (46' - 57"/12 = 41.25')
INFILTRATION RATE = 9.1 in/hr

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

Approved Construction Plan

Name	Date
Planning	
Traffic	
Fire	

LEGEND	
	PROPERTY LINE
	RIGHT OF WAY
	EXISTING CONTOUR
	EXISTING SPOT ELEVATION
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	PROPOSED CONTOUR
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	PROPOSED FINISHED GRADE
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SYMBOL	DATE	DESCRIPTION	BY
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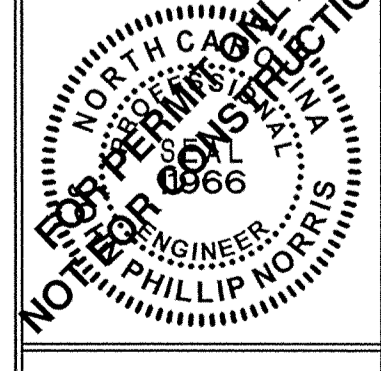
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UTILITY PLAN
DOLLAR GENERAL - PINE GROVE
810 PINE GROVE DRIVE
NEW HANOVER COUNTY, NORTH CAROLINA

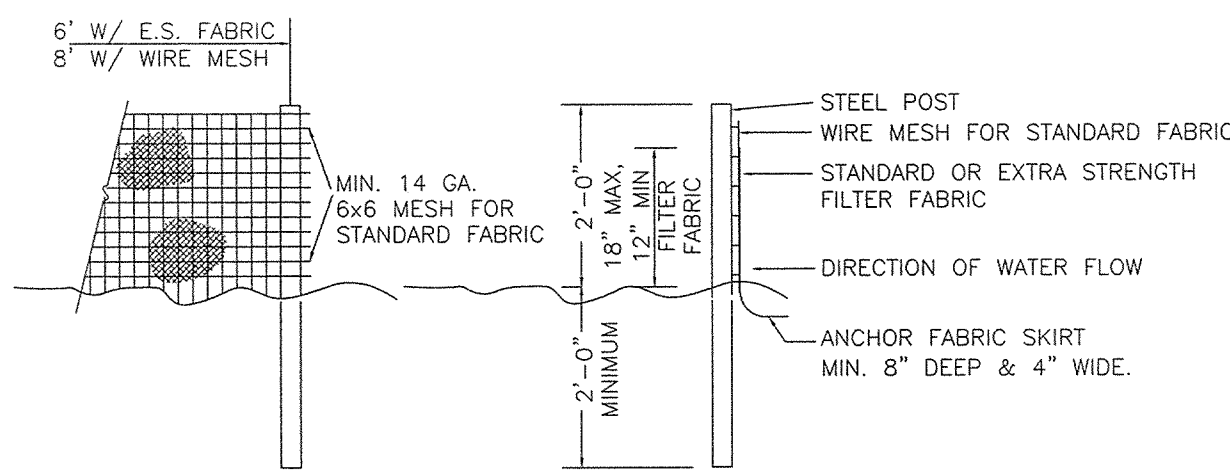
OWNER:
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2860-B NC HWY 5
ABERDEEN, NC 28315
(P) 910-944-0881
lee@thetsoncompanies.com

NORRIS & TUNSTALL
CONSULTING ENGINEERS P.C.
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ASH, NC 28420
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DRWN. EDB
DATE 08/09/18



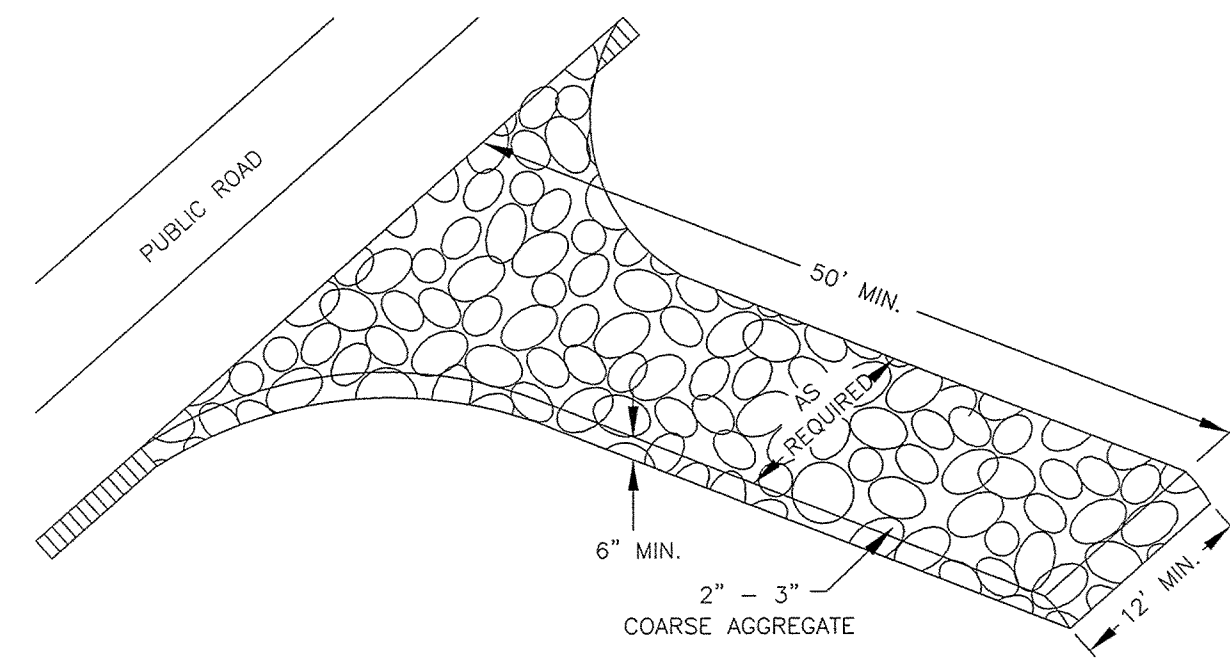
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- NOTES:
1. SYN. FENCE FABRIC SHALL BE MIN. OF 30" IN WIDTH WITH 30 LB/IN TENSILE STRENGTH FOR STANDARD FABRIC AND 50 LB/IN FOR EXTRA STRENGTH.
 2. FABRIC SHALL BE CONTINUOUS LENGTH. IF JOINTS ARE NECESSARY, LAP FABRIC POST TO POST.
 3. STEEL POST SHALL BE MIN 4" IN HEIGHT AND BE OF THE SELF-FASTENER STEEL ANGLE TYPE.

TEMPORARY SILT FENCE

TEMPORARY SILT FENCE MAINTENANCE
INSPECT SEDIMENT FENCES AT LEAST ONCE A WEEK AND EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY.
SHOULD THE FABRIC OF A SEDIMENT FENCE COLLAPSE, TEAR, DECOMPOSE OR BECOME INEFFECTIVE, REPLACE IT PROMPTLY.
REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEANOUT.
REMOVE ALL FENCING MATERIALS AND UNSTABLE IT AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.

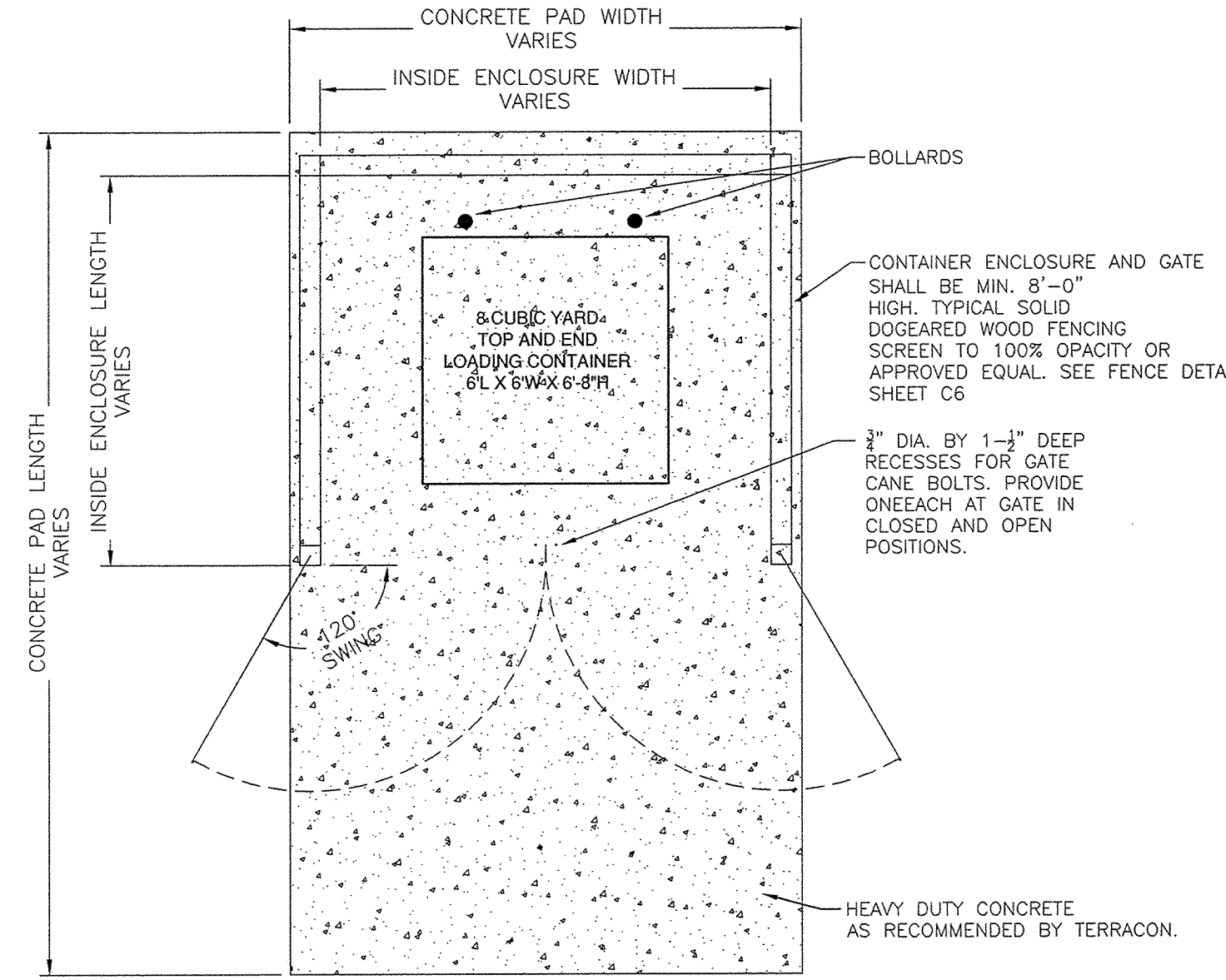


TEMPORARY GRAVELLED CONSTRUCTION ENTRANCE

GRAVEL CONSTRUCTION ENTRANCE
NTS

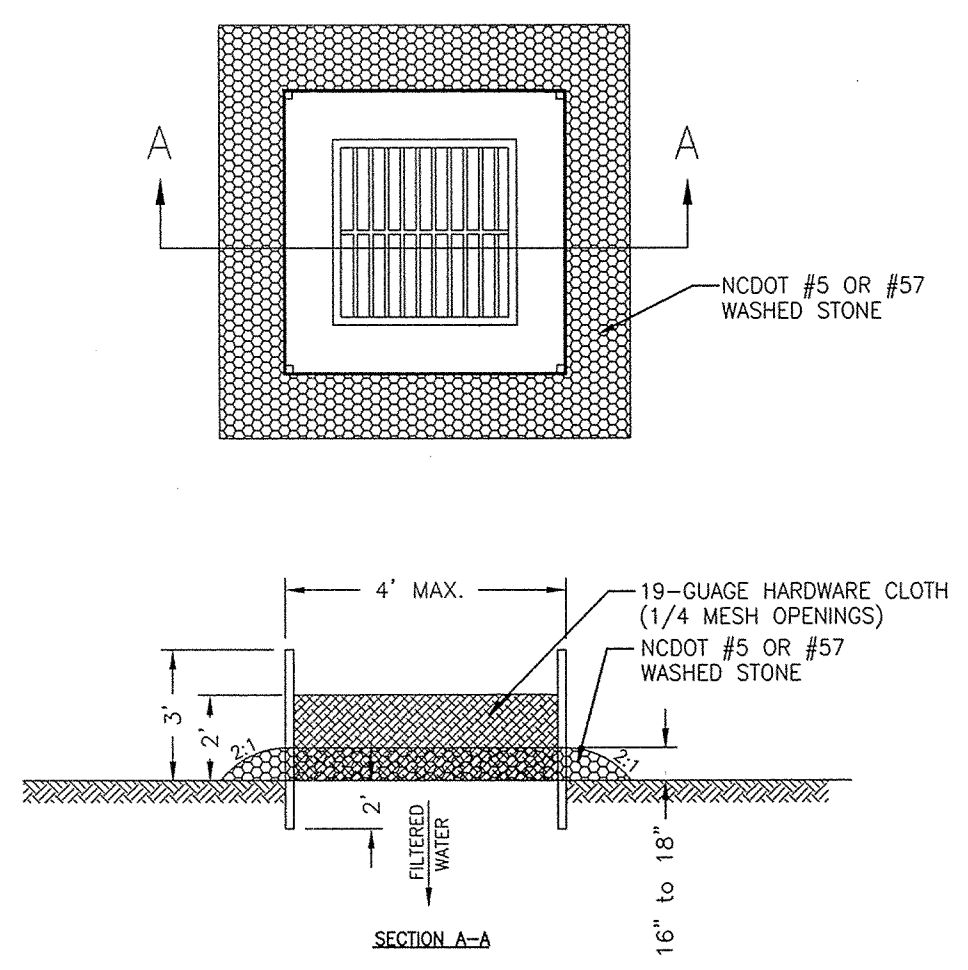
CONSTRUCTION SPECIFICATION:
1. CLEAR THE ENTRANCE AND EXIT AREA OF ALL VEGETATION, ROOTS, AND OTHER OBJECTIONABLE MATERIAL AND PROPERLY GRADE IT.
2. PLACE THE GRAVEL TO THE SPECIFIC GRADE AND DIMENSIONS SHOWN ON THE PLANS, AND SMOOTH IT.
3. PROVIDE DRAINAGE TO CARRY WATER TO A SEDIMENT TRAP OR OTHER SUITABLE OUTLET.
4. USE GEOTEXTILE FABRICS BECAUSE THEY IMPROVE STABILITY OF THE FOUNDATION IN LOCATIONS SUBJECT TO SEEPAGE OR HIGH WATER TABLE.

MAINTENANCE:
MAINTAIN THE GRAVEL PAD IS A CONDITION TO PREVENT MUD OR SEDIMENT FROM LEAVING THE CONSTRUCTION SITE. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 2 INCH STONE. AFTER EACH RAINFALL, INSPECT ANY STRUCTURE USED TO TRAP SEDIMENT AND CLEAN IT OUT AS NECESSARY. IMMEDIATELY REMOVE ALL OBJECTIONABLE MATERIALS SPILLED, WASHED, OR TRACKED ONTO PUBLIC ROADWAYS.



TYPICAL CONTAINER ENCLOSURE PLAN

NOTE: DUMPSTER PAD AND ENCLOSURE VARY DEPENDING UPON CONTAINER REQUIREMENTS PER DOLLAR GENERAL. CONTRACTOR SHALL PROVIDE SCREENING SO THAT PROPER CLEARANCES ARE MAINTAINED TO ALLOW LOADING & UNLOADING OF CONTAINER.

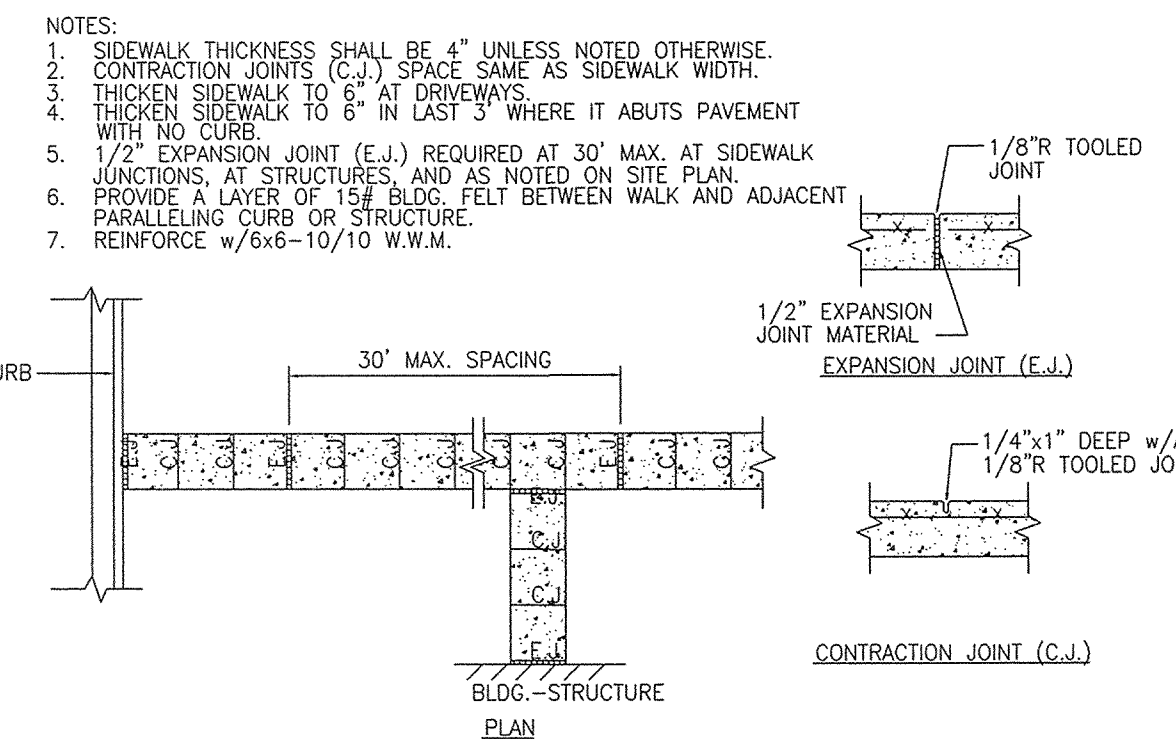


HARDWARE CLOTH & GRAVEL INLET PROTECTION

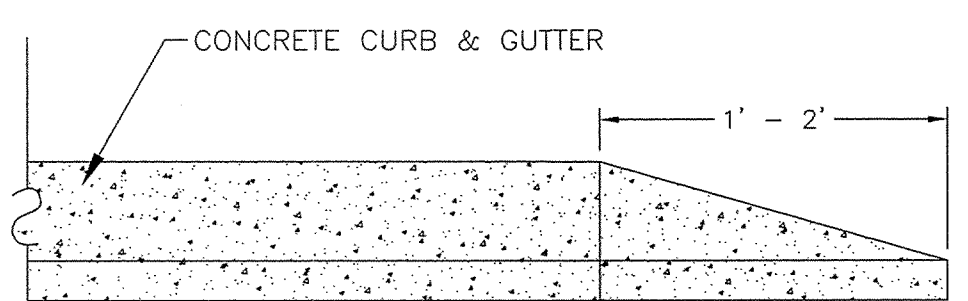
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- CONSTRUCTION SEQUENCE:
1. UNIFORMLY GRADE A SHALLOW DEPRESSION APPROACHING THE INLET.
 2. DRIVE 5" STEEL POST 2" INTO THE GROUND SURROUNDING THE INLET. SPACE POST EVENLY AROUND THE PERIMETER OF THE INLET, A MAXIMUM OF 4' APART.
 3. SURROUND THE POST WITH WIRE MESH HARDWARE CLOTH. SECURE THE WIRE MESH TO THE STEEL POST AT THE TOP, MIDDLE AND BOTTOM. PLACING A 2" FLAP OF THE WIRE MESH UNDER THE GRAVEL FOR ANCHORING IS RECOMMENDED.
 4. PLACE CLEAN GRAVEL (NCDOT #5 OR #57 STONE) ON A 2:1 SLOPE WITH A HEIGHT OF 16" TO 18" AROUND THE WIRE, AND SMOOTH TO AN EVEN GRADE.
 5. ONCE THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED, REMOVE ACCUMULATED SEDIMENT, AND ESTABLISH FINAL GRADING ELEVATIONS.
 6. COMPACT THE AREA PROPERLY AND STABILIZE IT WITH GROUNDCOVER.

MAINTENANCE:
INSPECT INLETS AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (1/2 INCH OR GREATER) RAINFALL EVENT. CLEAR THE MESH WIRE OF ANY DEBRIS OR OTHER OBJECTS TO PROVIDE ADEQUATE FLOW FOR SUBSEQUENT RAINS. TAKE CARE NOT TO DAMAGE OR UNDERCUT THE WIRE MESH DURING SEDIMENT REMOVAL. REPLACE STONE AS NEEDED.

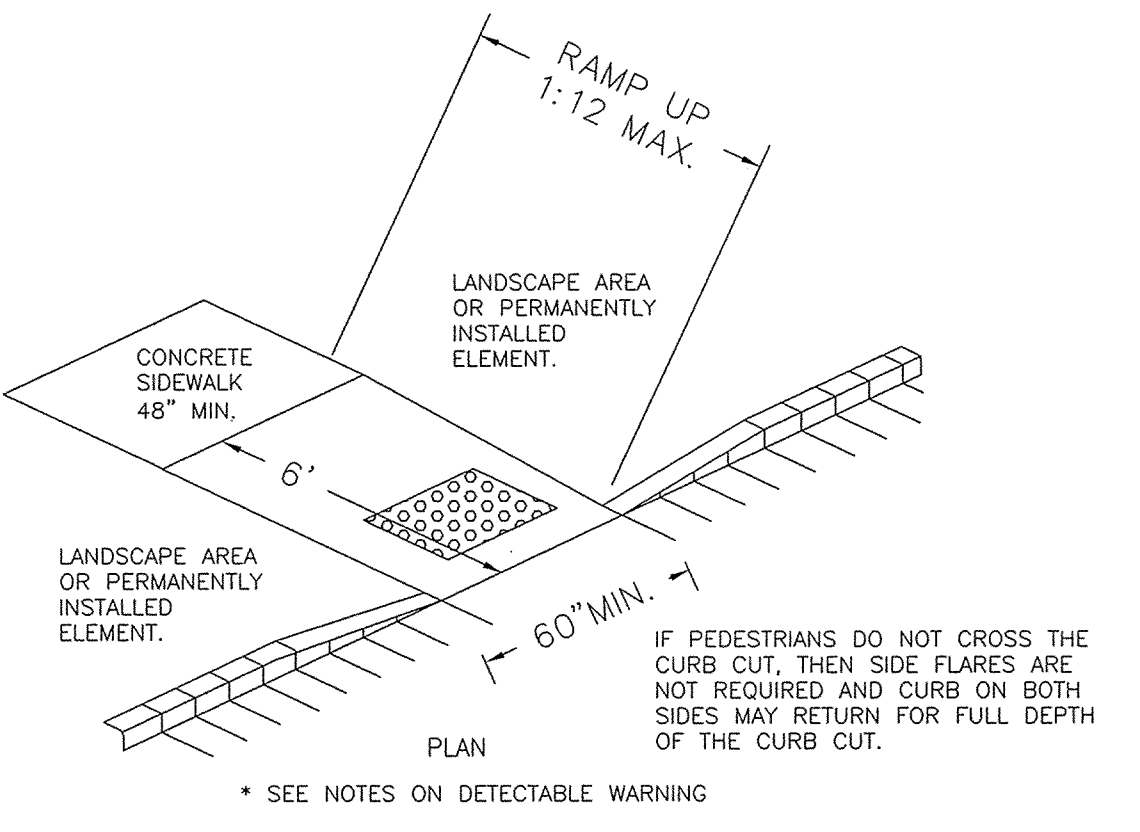


SIDEWALK JOINT DETAILS



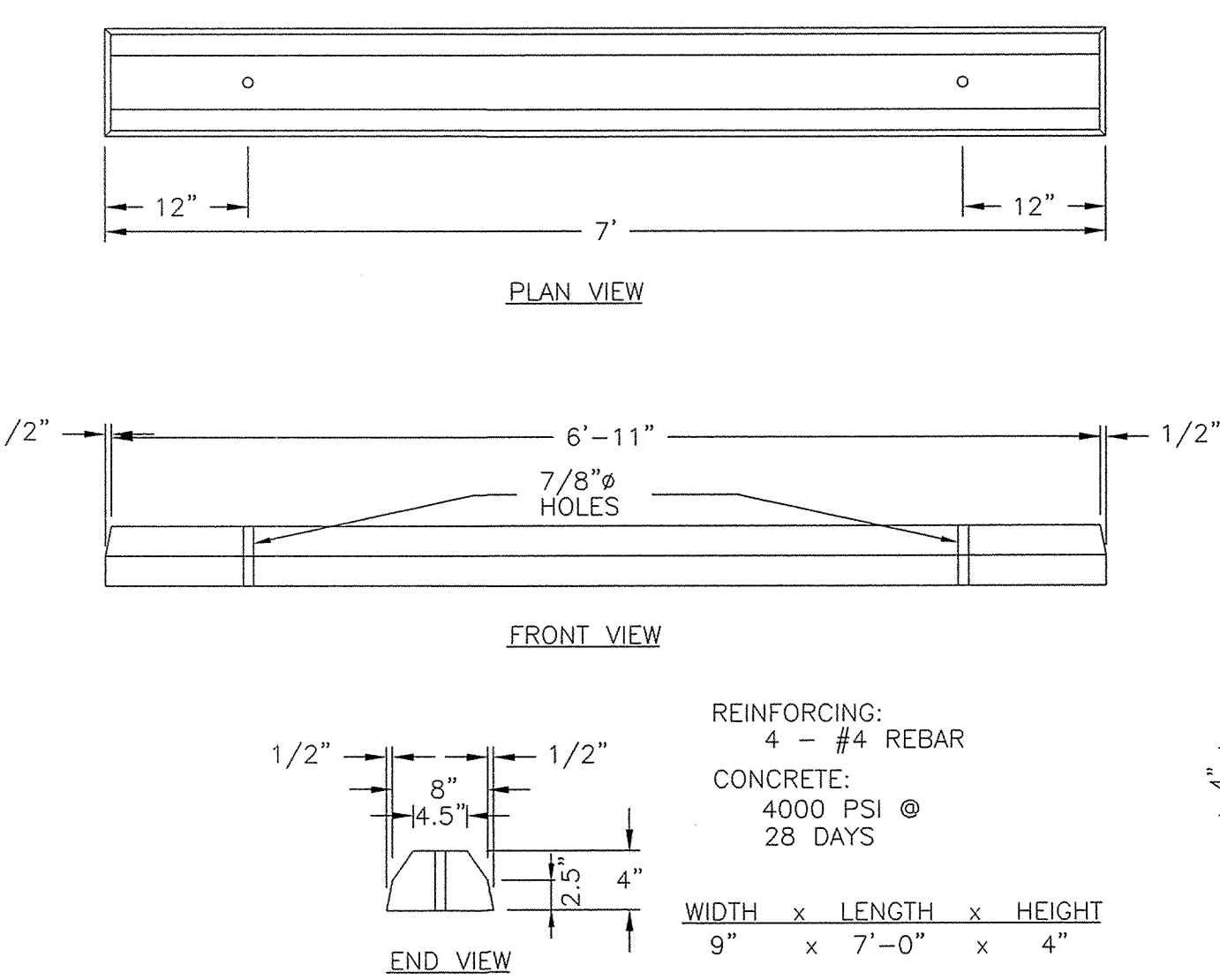
CURB END DETAIL

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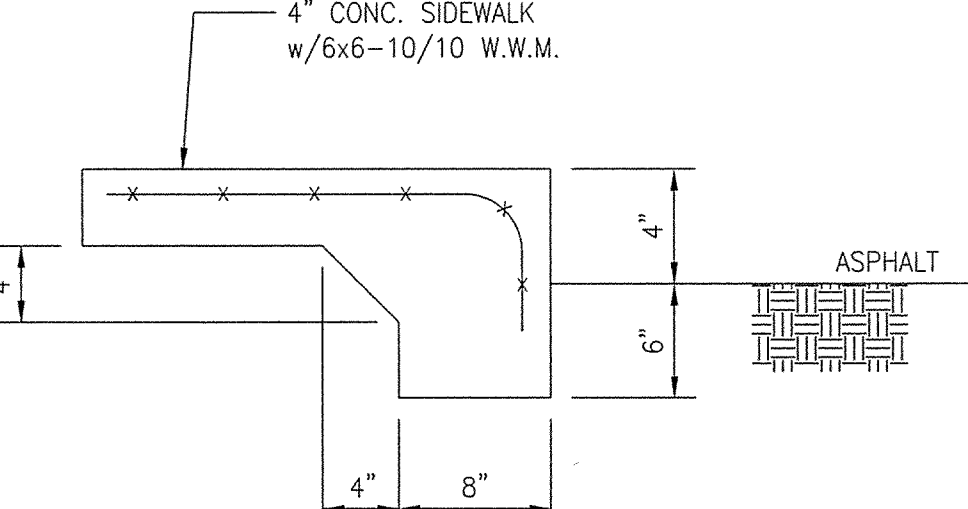
SIDEWALK, CURB CUT AND WHEEL CHAIR RAMP DETAIL

NTS



WHEEL STOP DETAIL

NTS



TURN DOWN SIDEWALK

NTS

TEMPORARY/PERMANENT GRASS SPECIFICATION

1. CHISEL COMPACTED AREAS AND SPREAD TOPSOIL 3 INCHES DEEP OVER ADVERSE SOIL CONDITIONS.
 2. RIP THE ENTIRE AREA TO A 6 INCH DEPTH.
 3. REMOVE ALL ROCKS, ROOTS AND OTHER OBSTRUCTIONS LEAVING SURFACES SMOOTH AND UNIFORM.
 4. APPLY AGRICULTURAL LIME AND FERTILIZER UNIFORMLY AND MIX WITH SOIL. LIME: 45 LBS. PER 1000 S.F. PHOSPHOROUS: 20 LBS PER 1000 S.F. FERTILIZER: 17 LBS. PER 1000 S.F.
 5. CONTINUE TILLAGE UNTIL A WELL PULVERIZED, FIRM, UNIFORM SEED BED IS PREPARED 4-6 INCHES DEEP.
 6. SEED ON A FRESHLY PREPARED SEED BED AND COVER SEED LIGHTLY. 2 - 3 LBS PER 1000 S.F. (SEE MIXTURE BELOW)
 7. MULCH IMMEDIATELY AFTER SEEDING AND ANCHOR MULCH. GRAIN STRAW & HAY AT 75 TO 100 LBS PER 1000 S.F. WOOD CHIPS AT 500 LBS. PER 1000 S.F. JUTE & MESH AS PER MANUFACTURER
 8. ASPHALT FOR ANCHORING MULCH SHALL BE TYPE SS-1 EMULSION AND APPLIED AT A RATE OF 1000 GAL. PER ACRE FOR SLOPE STABILIZATION, AND 150 GAL. PER TON OF STRAW FOR ANCHORING STRAW.
 9. INSPECT ALL SEEDING AREAS AND MAKE NECESSARY REPAIRS OR RESEED WITHIN THE PLANTING SEASON, IF POSSIBLE. IF GRASS STAND SHOULD BE OVER 80% DAMAGED, REESTABLISH FOLLOWING ORIGINAL LIME, FERTILIZER AND SEEDING RATES.
 10. CONSULT CONSERVATION INSPECTOR ON MAINTENANCE, TREATMENT, AND FERTILIZATION AFTER PERMANENT COVER IS ESTABLISHED.
 11. SEED FOR TEMPORARY AND PERMANENT APPLICATIONS SHALL BE:
20% CARPET GRASS
24% BERMUDA GRASS
20% TURF FESCUE 10% CREEPING RED FESCUE
24% ANNUAL RYE GRASS
*BERMUDA SEED SHALL BE HULLED FOR WARM WEATHER PLANTING. PURITY OF SEED SHALL BE A MIN. OF 98% AND GERMINATION SHALL BE A MIN. OF 85%.
- ALL DISTURBED AREA SHALL BE SEED WITHIN 7 TO 14 DAYS OF THE COMPLETION OF GRADING. CONSULT CONSERVATION ENGINEER OR SOIL CONSERVATION SERVICE FOR ADDITIONAL INFORMATION CONCERNING OTHER ALTERNATIVES FOR VEGETATION OF DENuded AREAS. THE ABOVE VEGETATION RATES ARE THOSE WHICH DO WELL UNDER LOCAL CONDITIONS, OTHER SEEDING SCHEDULES MAY BE POSSIBLE.

NPDES STABILIZATION TIMEFRAMES

SITE AREA DESCRIPTION	STABILIZATION	TIMEFRAME EXCEPTIONS
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (H2W) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED
SLOPES 3:1 OR FLATTER	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE, EXCEPT FOR PERIMETERS AND H2W ZONES

TEMPORARY SEEDING RECOMMENDATIONS FOR FALL

SEEDING MIXTURE
SPECIES RATE (lb/acre)
RYE (GRAIN) 120
ANNUAL LESPEDEZA 50

SEEDING DATES
MOUNTAINS - AUG. 15 - DEC. 15
COASTAL PLAIN AND PIEDMONT - AUG. 15 - DEC. 15

FOLLOW SOIL TEST OR APPLY 2,000 lb/acre GROUND AGRICULTURAL LIMESTONE AND 1,000 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
REPAIR AND REFERTILIZE DAMAGE AREAS IMMEDIATELY. TOP DRESS WITH 50 lb/acre OF NITROGEN IN MARCH, IF IT IS NECESSARY TO EXTEND TEMPORARY COVER BEYOND JUNE 15, OVERSEED WITH 50 lb/acre KOBE (PIEDMONT AND COASTAL PLAIN) OR KOREAN (MOUNTAINS) LESPEDEZA IN LATE FEBRUARY OR EARLY MARCH.

TEMPORARY SEEDING RECOMMENDATIONS FOR LATE WINTER AND EARLY SPRING

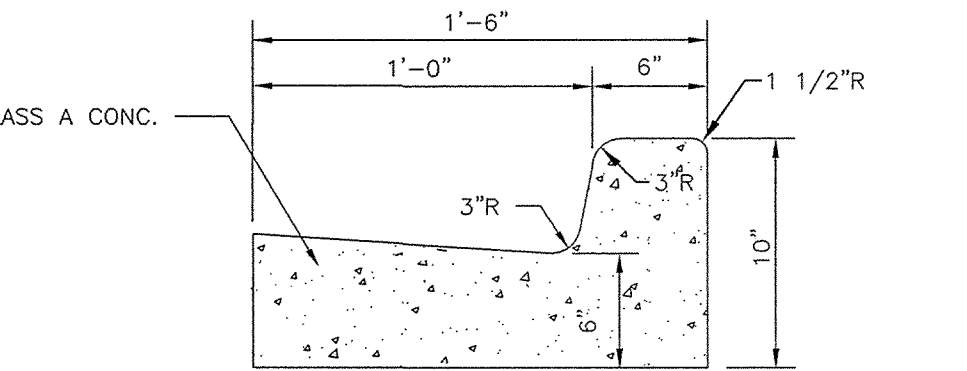
SEEDING MIXTURE
SPECIES RATE (lb/acre)
RYE (GRAIN) 120
ANNUAL LESPEDEZA 50

SEEDING DATES
MOUNTAINS - ABOVE 2,500 FEET: FEB. 15 - MAY 15
BELOW 2,500 FEET: FEB. 1 - MAY 1
PIEDMONT - JAN. 1 - MAY 1
COASTAL PLAIN - DEC. 1 - APRIL 15

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.



18" FLOW LINE CURB SECTION

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

NOTE:
1. PRIOR TO ANY FIELD MODIFICATION, REVISIONS SHALL BE APPROVED BY NRT. ANY DEVIATIONS FROM APPROVED PLANS MAY RESULT IN NON CONFORMANCE WITH PERMITS OR PERMITTED CONDITIONS. REVISIONS MAY REQUIRE RE-ANALYSIS & PERMIT MODIFICATION AT OWNERS EXPENSE AND COULD POTENTIALLY DELAY C.O. OR REQUIRE WORK STOPPAGE UNTIL PROJECT IS BROUGHT BACK INTO PERMIT COMPLIANCE.

SITE WORK NOTES:
1. THE CONTRACTOR SHALL VISIT THE SITE TO BECOME FAMILIAR WITH FIELD CONSTRUCTION CONDITIONS.
2. CONTRACTOR SHALL COORDINATE WORK WITHIN NCDOT AND LOCAL RIGHT OF WAYS WITH PROPER AUTHORITIES AND SHALL MEET ANY REQUIREMENTS AS TO TRAFFIC CONTROL AND CONNECTION TO EXISTING STREETS.
3. CLEARING AND GRUBBING: REMOVE ALL TREES AS REQUIRED UNLESS OTHERWISE NOTED TO REMAIN. STUMPS, ROOTS, SHRUBBERY, ASPHALT, CONCRETE, STRUCTURES, BURIED UTILITIES, STORAGE TANKS, ETC. WITHIN LIMITS OF CONSTRUCTION.
4. STRIPPING: BEFORE EXCAVATING OR FILLING, REMOVE ALL TOPSOIL, WOOD, LEAVES, AND ANY OTHER UNSUITABLE MATERIAL.
5. MUCKING: REMOVE ANY SOFT, ORGANIC SILT MATERIALS AND EXISTING BURIED CONSTRUCTION DEBRIS AS REQUIRED AND FILL TO SUBGRADE ELEVATIONS WITH A CLEAN, STUMP-FREE, ROOT-FREE, STRIPPERY, ASPHALT, CONCRETE, STRUCTURES, BURIED UTILITIES, STORAGE TANKS, ETC. WITHIN LIMITS OF CONSTRUCTION.
6. DISPOSAL: CLEARED, GRUBBED, STRIPPED OR EXCAVATED SPOIL SHALL BE REMOVED FROM SITE AND DISPOSED OF IN ACCORDANCE WITH ALL APPLICABLE LOCAL AND STATE CODES.
7. BORROW MATERIAL: THE CONTRACTOR SHALL FURNISH BORROW MATERIAL REQUIRED FROM OFF SITE AND OBTAIN ALL REQUIRED PERMITS ASSOCIATED WITH BORROW OPERATIONS.
8. FILL AND COMPACTION: AFTER STRIPPING THOSE AREAS DESIGNATED TO RECEIVE FILL SHOULD BE PROROLLED. THE TOP 8" OF SUBGRADE SHALL BE COMPACTED TO AT LEAST 98% OF MAXIMUM DENSITY AT OPTIMUM MOISTURE CONTENT. ANY AREA WHICH PUMPS OR PUTS EXCESSIVELY SHOULD BE UNDERCUT AND REPLACED WITH A CLEAN, SILTY OR CLAYEY SAND HAVING A UNIFIED SOIL CLASSIFICATION OF SP, SM, OR SC. FILL MATERIAL 5' OUTSIDE OF BUILDING AREAS SHALL THEN BE PLACED IN LAYERS NOT TO EXCEED 8" AND COMPACTED TO AT LEAST 95% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D-698) WITH THE UPPER 12 INCHES OF SUBGRADE BEING COMPACTED TO 98% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY. FILL MATERIALS WITHIN BUILDING AREAS TO A LINE OUTSIDE THE BUILDING AREAS SHALL BE PLACED IN LAYERS NOT TO EXCEED 8" AND COMPACTED TO AT LEAST 98% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D-698) WITH THE UPPER 12 INCHES OF SUBGRADE BEING COMPACTED TO 98% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY. IF THE MATERIAL IS TOO WET TO SECURE PROPER COMPACTION, IT SHALL BE HARROWED REPEATEDLY OR OTHERWISE AERATED WITH SUITABLE EQUIPMENT UNTIL OPTIMUM MOISTURE CONTENT IS OBTAINED. FILL SHALL BE PLACED IN SUCH A MANNER THAT THE SURFACE WILL DRAIN READILY AT ALL TIMES. SEE STRUCTURAL NOTES AND SOILS REPORT FOR ADDITIONAL REQUIREMENTS.
9. LAYOUT: THE CONTRACTOR SHALL PROVIDE ALL LAYOUT REQUIRED TO CONSTRUCT HIS WORK.
10. THE CONTRACTOR IS RESPONSIBLE FOR THE LOCATION AND PROTECTION OF EXISTING UTILITIES DURING CONSTRUCTION.
11. EXISTING BOUNDARY AND TOPOGRAPHIC INFORMATION FROM SURVEY BY NORRIS & WARD LAND SURVEYING AND PROVIDED BY OWNER.
12. THE CONTRACTOR SHALL VERIFY DIMENSIONS AT JOBSITE.
13. THE CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION OF RELOCATION OR DISCONNECTION OF ALL EXISTING UTILITIES WITH APPLICABLE AGENCIES AND AUTHORITIES.
14. ALL PAVEMENT AND BASE MATERIALS AND WORKMANSHIP SHALL CONFORM TO NCDOT STANDARDS.
15. WATER AND SEWER SERVICES SHALL BE INSTALLED TO MEET LOCAL AND STATE PLUMBING CODES. METER AND TAPS SHALL MEET ALL LOCAL REQUIREMENTS.
16. ALL AREAS SHALL BE GRADED FOR POSITIVE DRAINAGE.
17. SEE GEOTECHNICAL REPORT FOR ADDITIONAL REQUIREMENTS.
18. CONTRACTOR SHALL NOTE THAT EARTHWORK QUANTITIES ARE HIS RESPONSIBILITY. PLANS DO NOT REPRESENT A BALANCED EARTHWORK CONDITION.
19. USE WHITE LANE MARKING PAINT FOR ALL PAVEMENT MARKINGS. PAINT SHALL BE A CHLORINATED RUBBER ALKYL, FS 11-115, TYPE III, FACTORY MIXED, QUICK DRYING, NON-BLEEDING.
20. REFER TO THE PLUMBING DRAWINGS FOR LOCATION AND INVERTS OF NEW WATER AND WATER LINES.

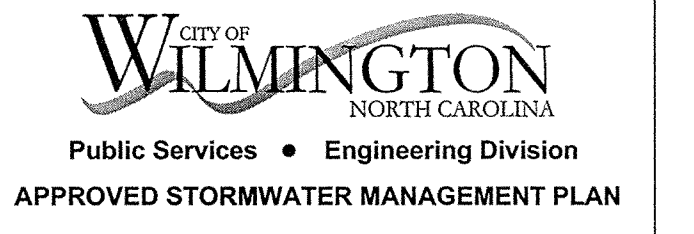
BY	DESCRIPTION	REVISIONS
SYMBOL	DATE	

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DETAILS
DOLLAR GENERAL - PINE GROVE
810 PINE GROVE DRIVE
NEW HANOVER COUNTY, NORTH CAROLINA

OWNER:
PAR 5 DEVELOPMENT, LLC
2860-B NC HWY 5
ABERDEEN, NC 28315
(P) 910-944-0881
lee@thetsoncompanies.com

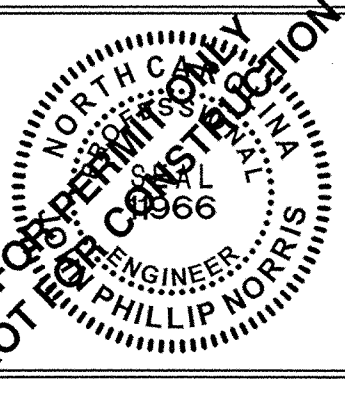
NORRIS & TUNSTALL
CONSULTING ENGINEERS P.C.
1429 ASH-LITTLE RIVER RD. NW
WILMINGTON, NC 28401
PHONE (910) 343-9653

License #C-3641
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DES. JPN
CHK. JPN
DRWN. EDB
DATE 08/09/18

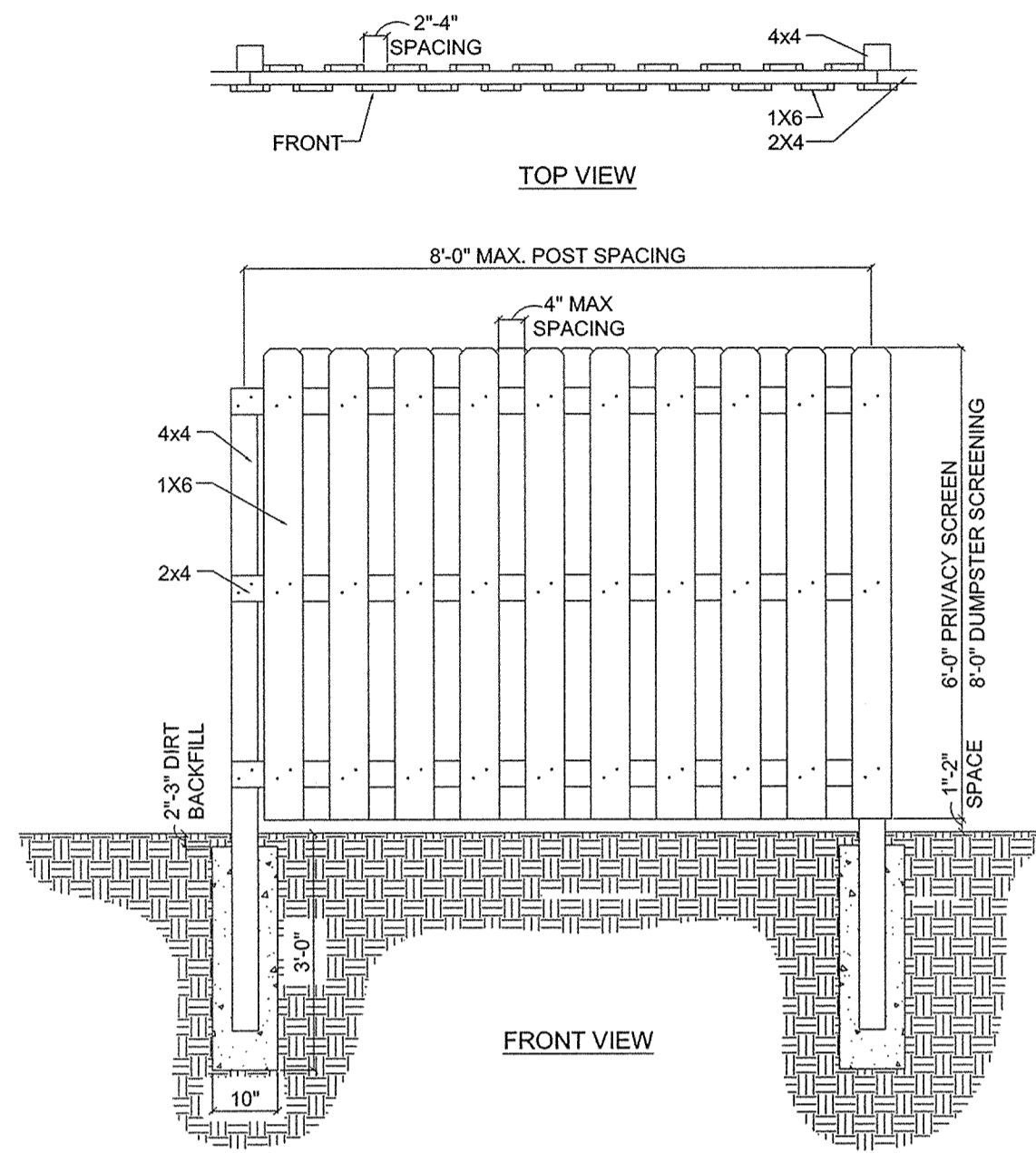


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Planning _____
Traffic _____
Fire _____



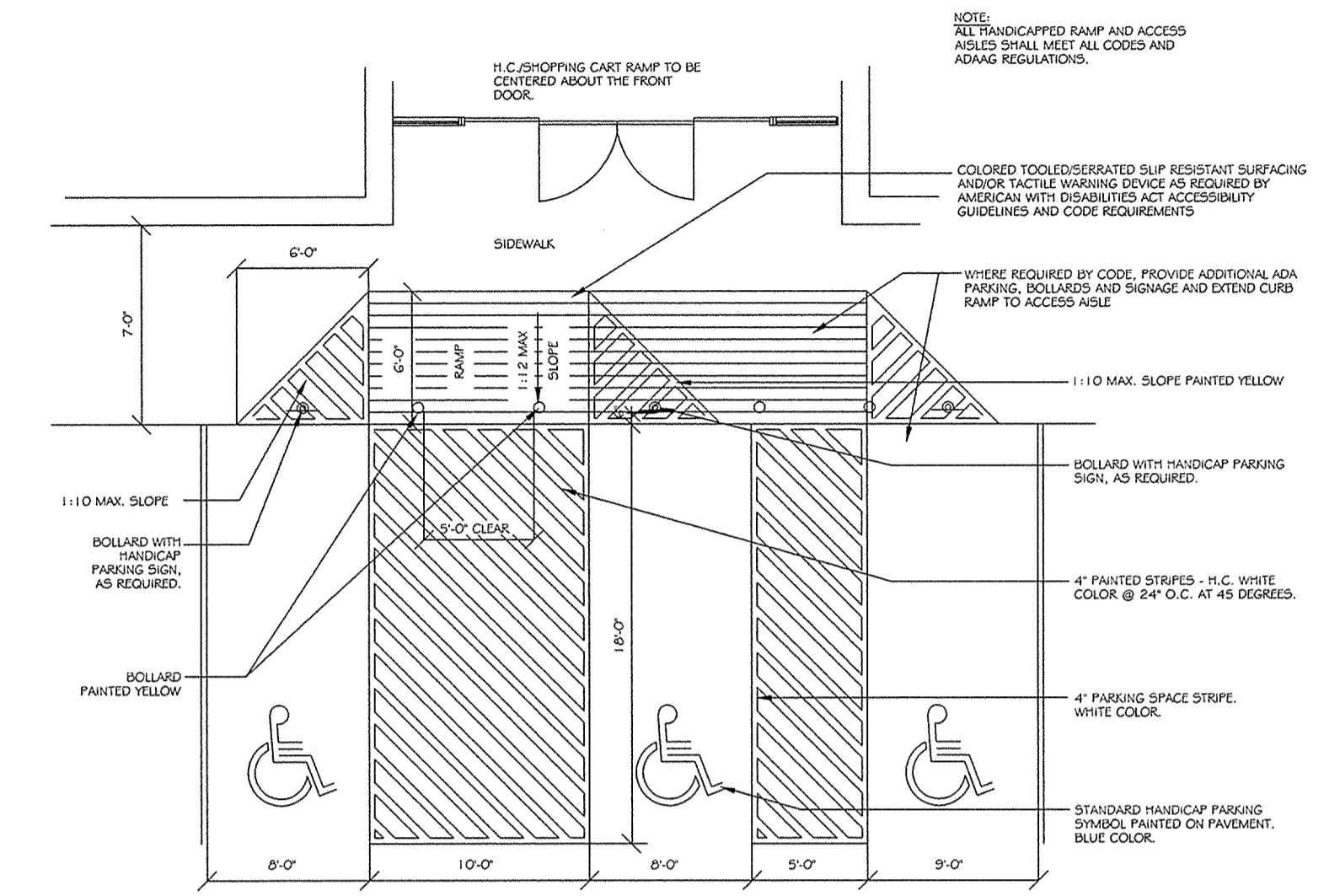
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FENCE DETAIL
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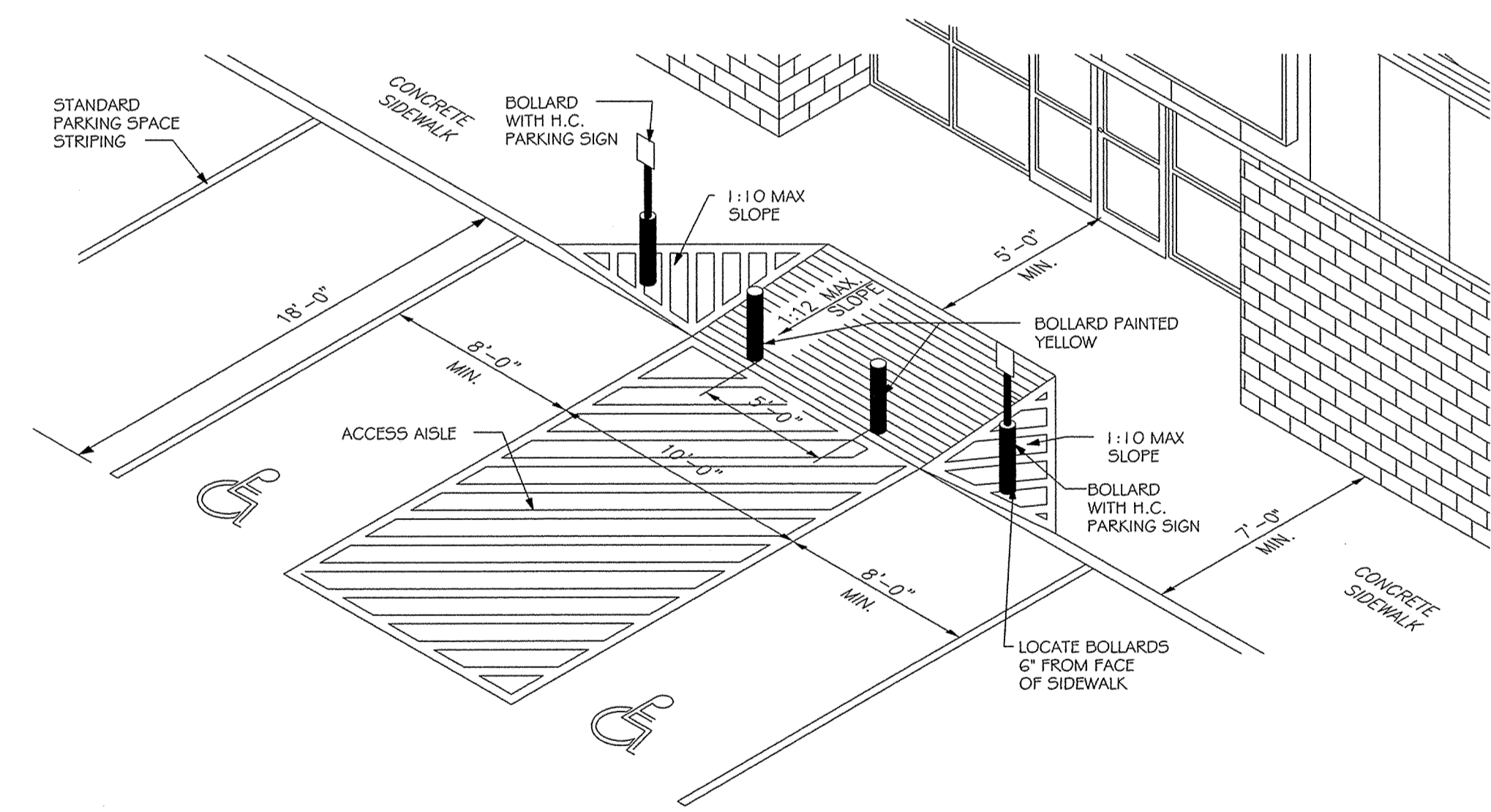
IF AN UNOBSTRUCTED VIEW EXISTS OF A RESIDENTIAL BUILDING BETWEEN TENANT PARCEL AND ADJACENT PARCEL, THEN LESSOR SHALL CONSTRUCT A PRIVACY FENCE IN ACCORDANCE WITH TENANT'S PROTOTYPE CRITERIA SET PLANS AND ANY APPLICABLE GOVERNMENTAL REQUIREMENTS.

NOTE:
1. WOOD TO BE TREATED PINE. USE GALVANIZED NAILS FOR FASTENINGS.
2. NUMBER OF BOARDS WILL VARY DEPENDING ON SPACE BETWEEN BOARDS AND ACTUAL WIDTH OF BOARDS.

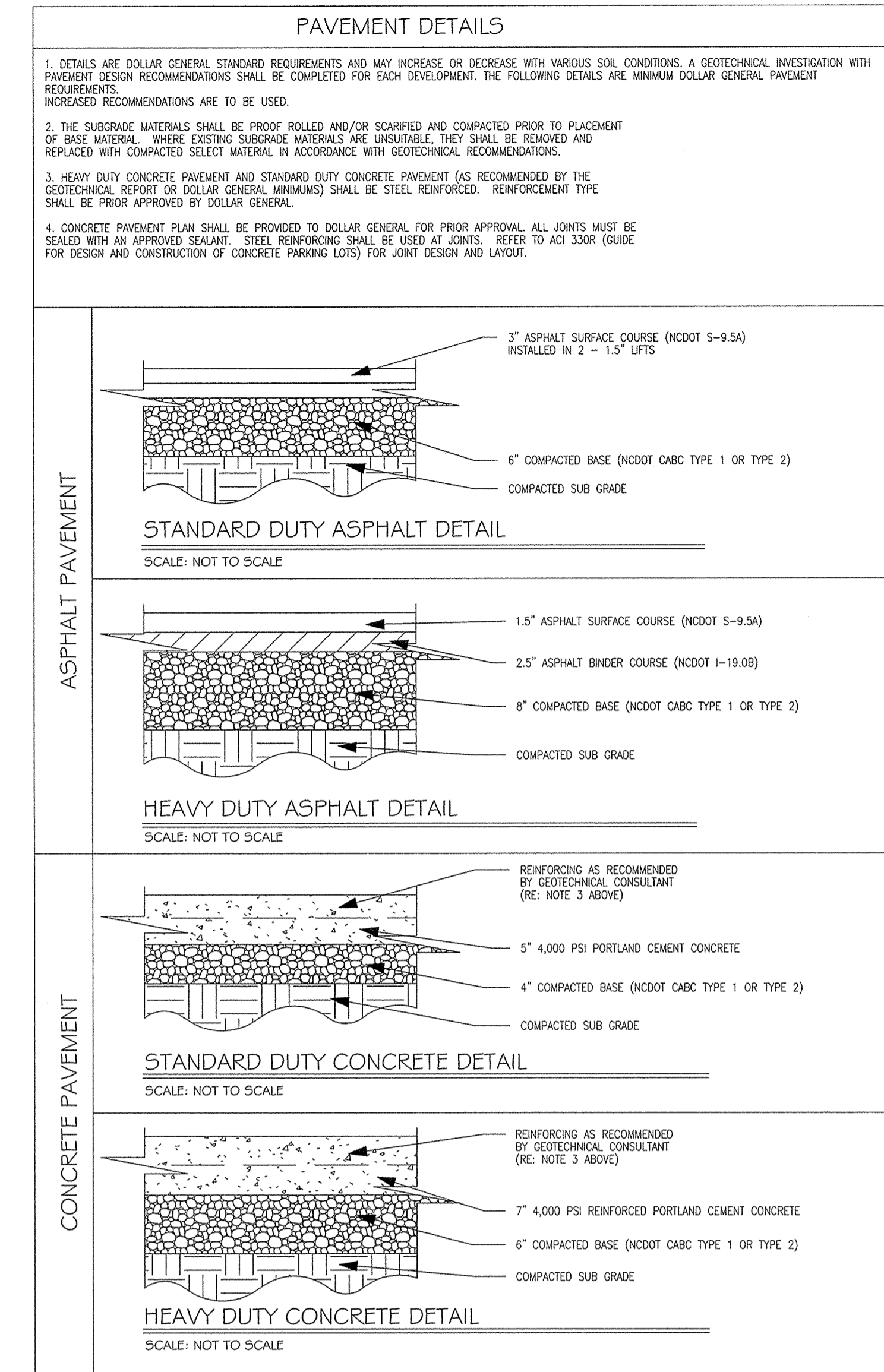


HANDICAP PARKING DETAIL
NTS

NOTE: ALL STRIPING SHALL BE WHITE. HANDICAP SYMBOL MAY BE BLUE. [SEC. 18-529(b)(2) CITY OF WILMINGTON LAND DEVELOPMENT CODE]



HANDICAP PARKING, ACCESS RAMP AND ACCESS AISLE DETAILS
NTS



* PAVEMENT SECTIONS HAVE BEEN EDITED TO REFLECT RECOMMENDATIONS PROVIDED BY TERRACON. SEE GEOTECHNICAL REPORT FOR ALL PAVING REQUIREMENTS.

PAVEMENT DETAILS
1. DETAILS ARE DOLLAR GENERAL STANDARD REQUIREMENTS AND MAY INCREASE OR DECREASE WITH VARIOUS SOIL CONDITIONS. A GEOTECHNICAL INVESTIGATION WITH PAVEMENT DESIGN RECOMMENDATIONS SHALL BE COMPLETED FOR EACH DEVELOPMENT. THE FOLLOWING DETAILS ARE MINIMUM DOLLAR GENERAL PAVEMENT REQUIREMENTS. INCREASED RECOMMENDATIONS ARE TO BE USED.
2. THE SUBGRADE MATERIALS SHALL BE PROOF ROLLED AND/OR SCRIPED AND COMPACTED PRIOR TO PLACEMENT OF BASE MATERIAL. WHERE EXISTING SUBGRADE MATERIALS ARE UNSUITABLE, THEY SHALL BE REMOVED AND REPLACED WITH COMPACTED SELECT MATERIAL IN ACCORDANCE WITH GEOTECHNICAL RECOMMENDATIONS.
3. HEAVY DUTY CONCRETE PAVEMENT AND STANDARD DUTY CONCRETE PAVEMENT (AS RECOMMENDED BY THE GEOTECHNICAL REPORT OR DOLLAR GENERAL MINIMUMS) SHALL BE STEEL REINFORCED. REINFORCEMENT TYPE SHALL BE PRIOR APPROVED BY DOLLAR GENERAL.
4. CONCRETE PAVEMENT PLAN SHALL BE PROVIDED TO DOLLAR GENERAL FOR PRIOR APPROVAL. ALL JOINTS MUST BE SEALED WITH AN APPROVED SEALANT. STEEL REINFORCING SHALL BE USED AT JOINTS. REFER TO ACI 330R (GUIDE FOR DESIGN AND CONSTRUCTION OF CONCRETE PARKING LOTS) FOR JOINT DESIGN AND LAYOUT.

BY	DESCRIPTION
DATE	REVISIONS
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810 PINE GROVE DRIVE
NEW HANOVER COUNTY, NORTH CAROLINA

OWNER:
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2860-B NC HWY 5
ABERDEEN, NC 28315
(P) 910-944-0881
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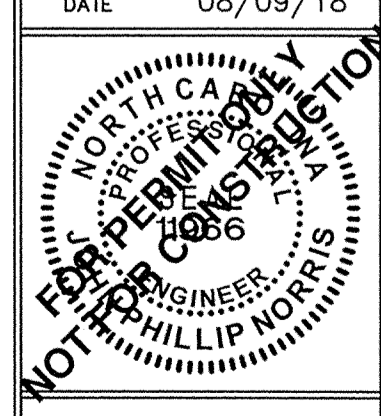
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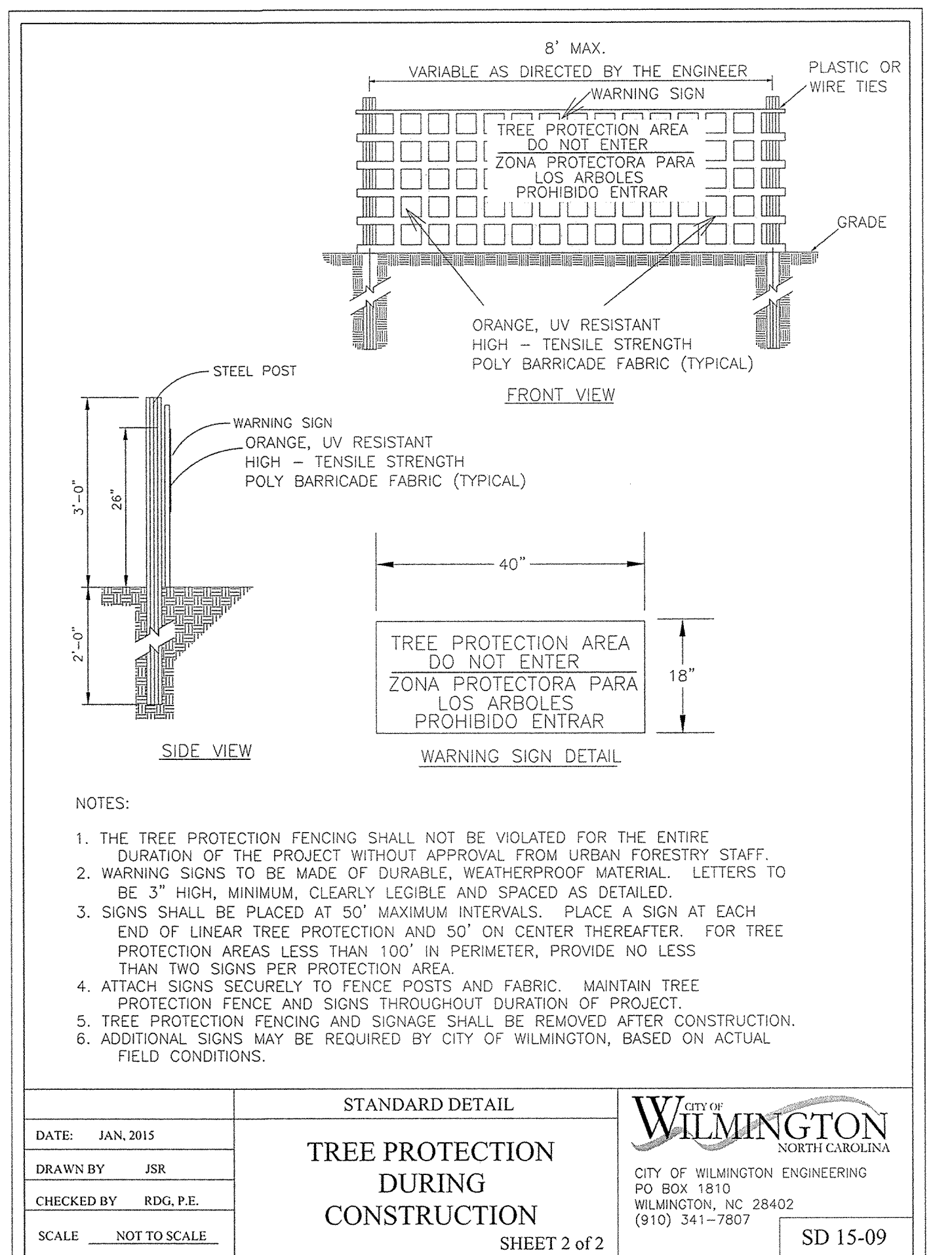
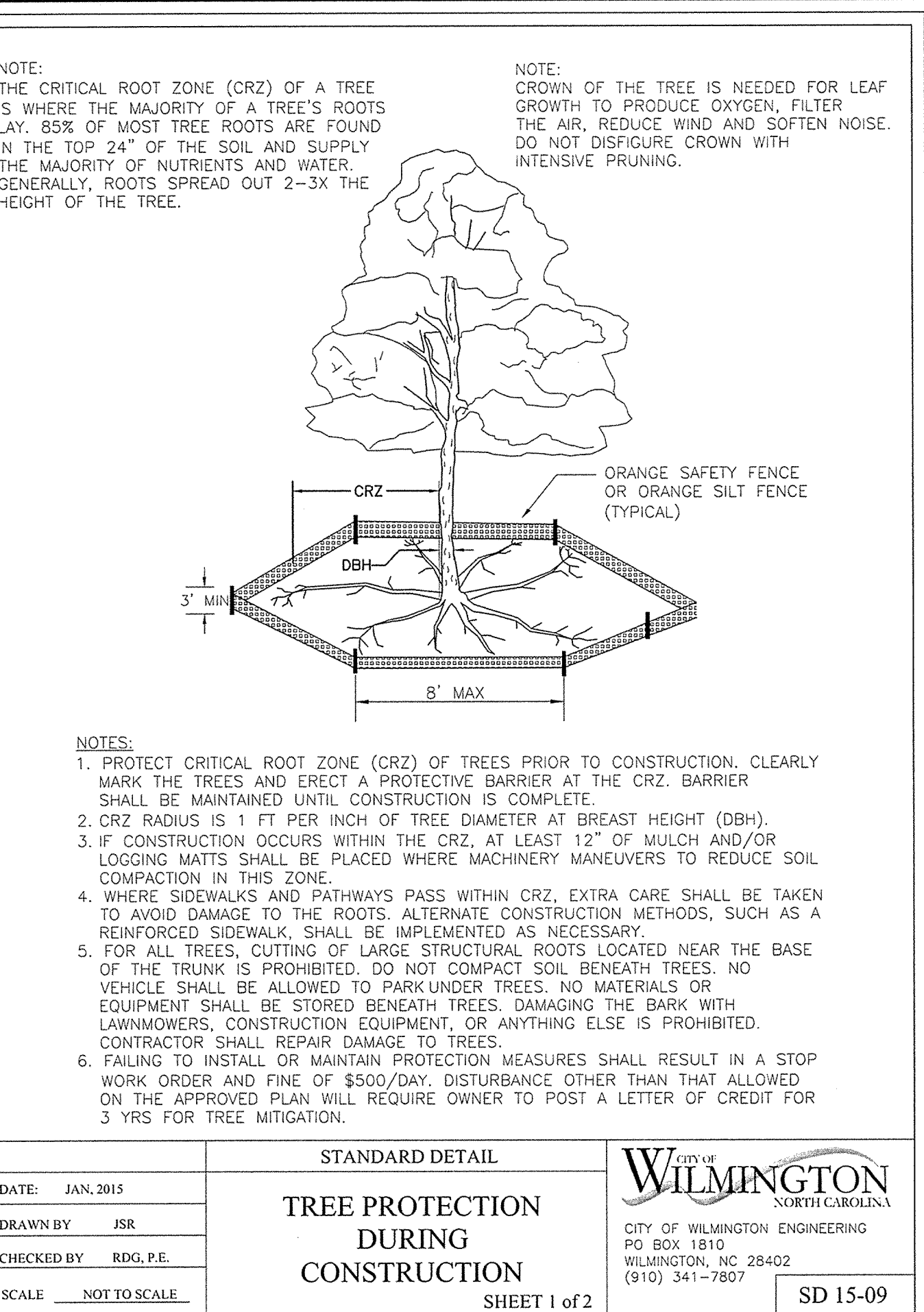
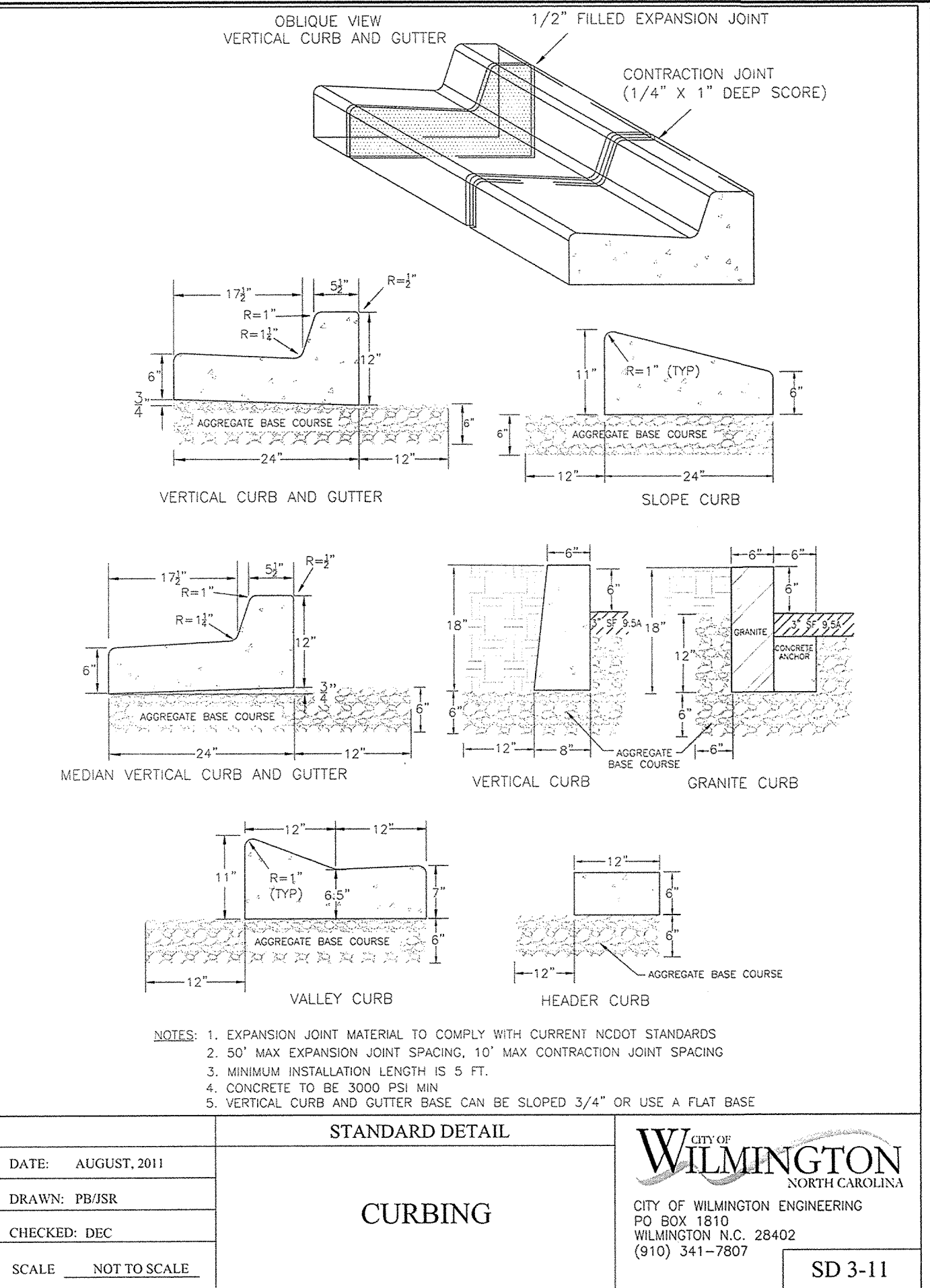
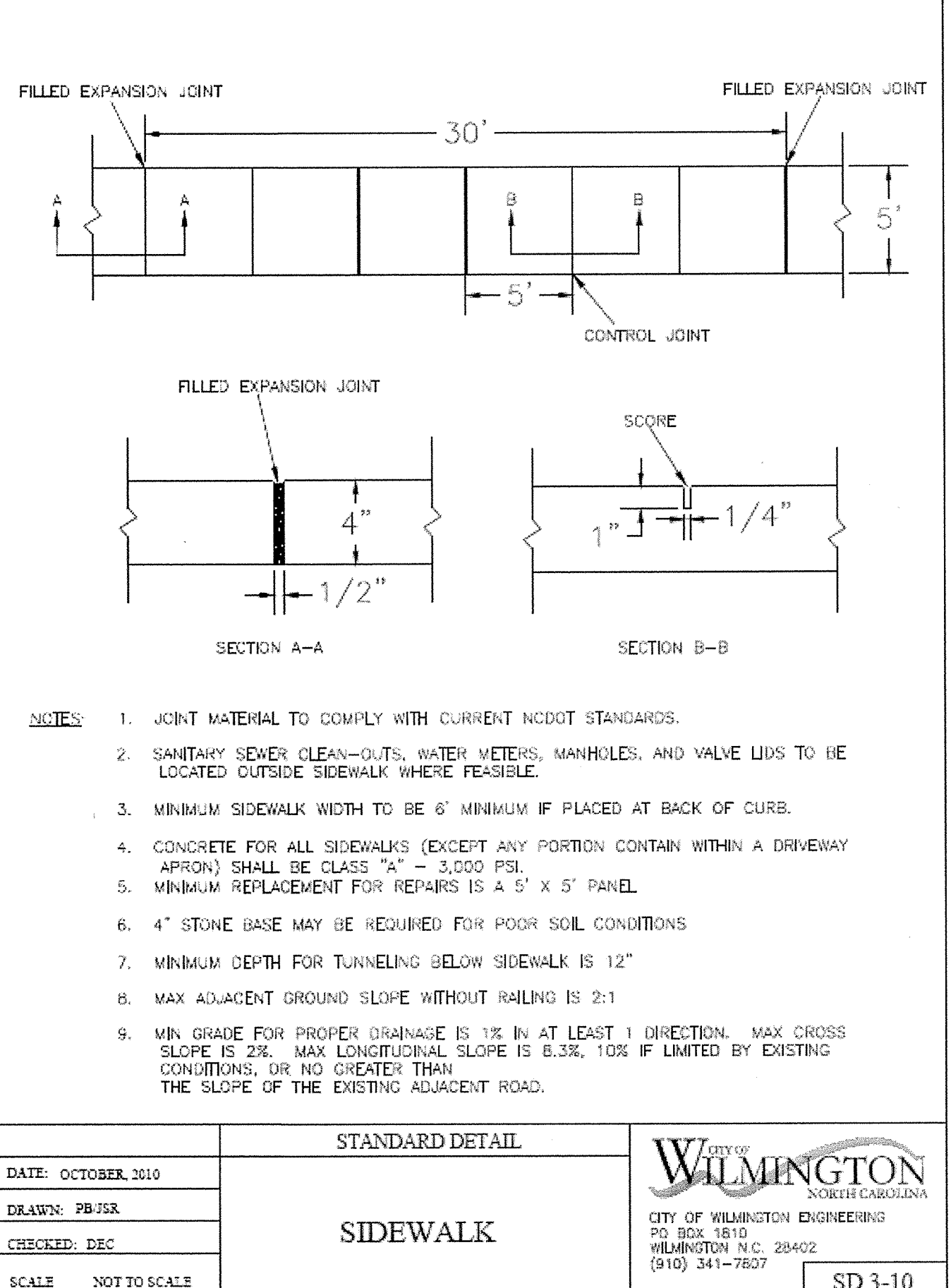
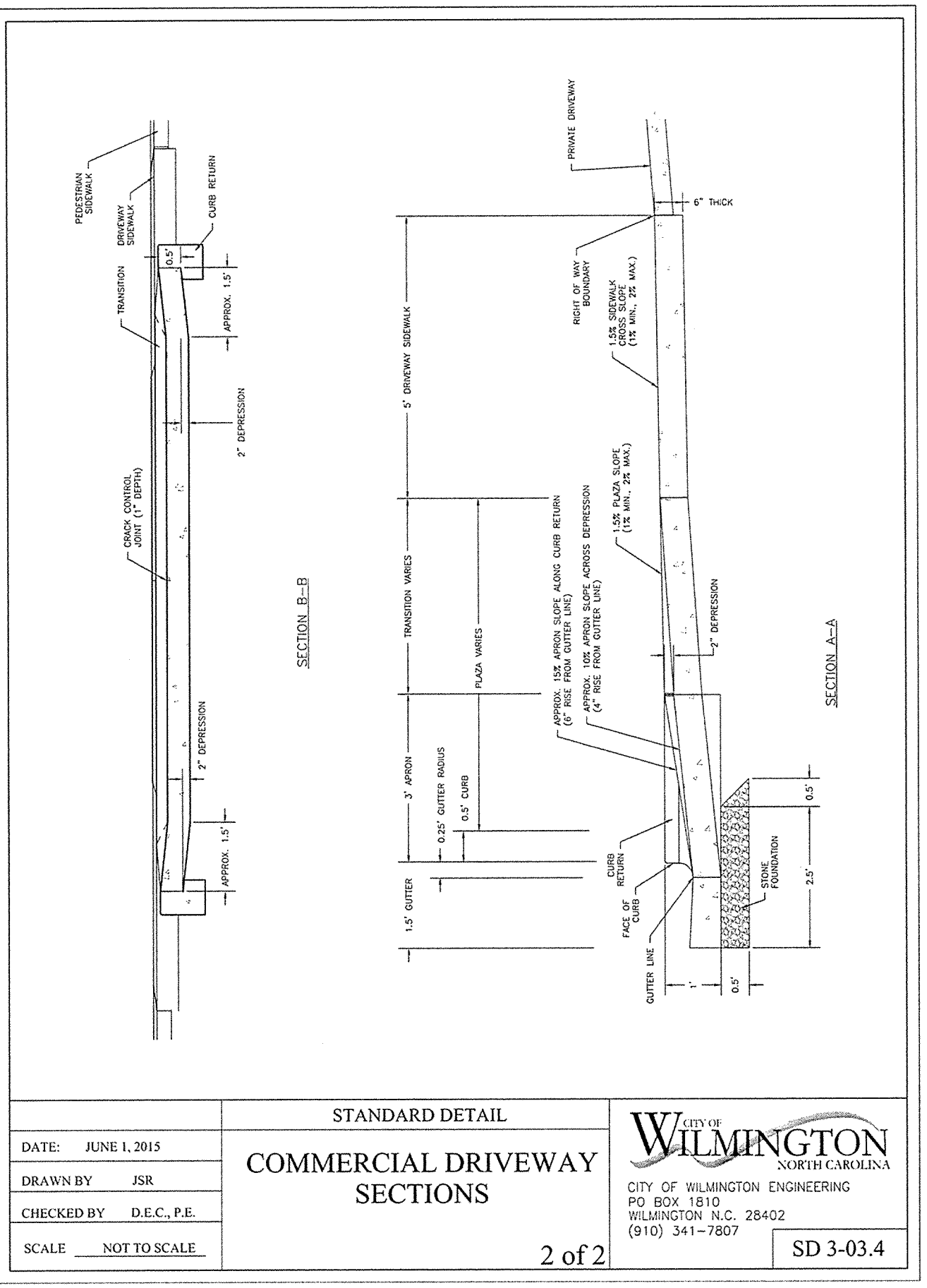
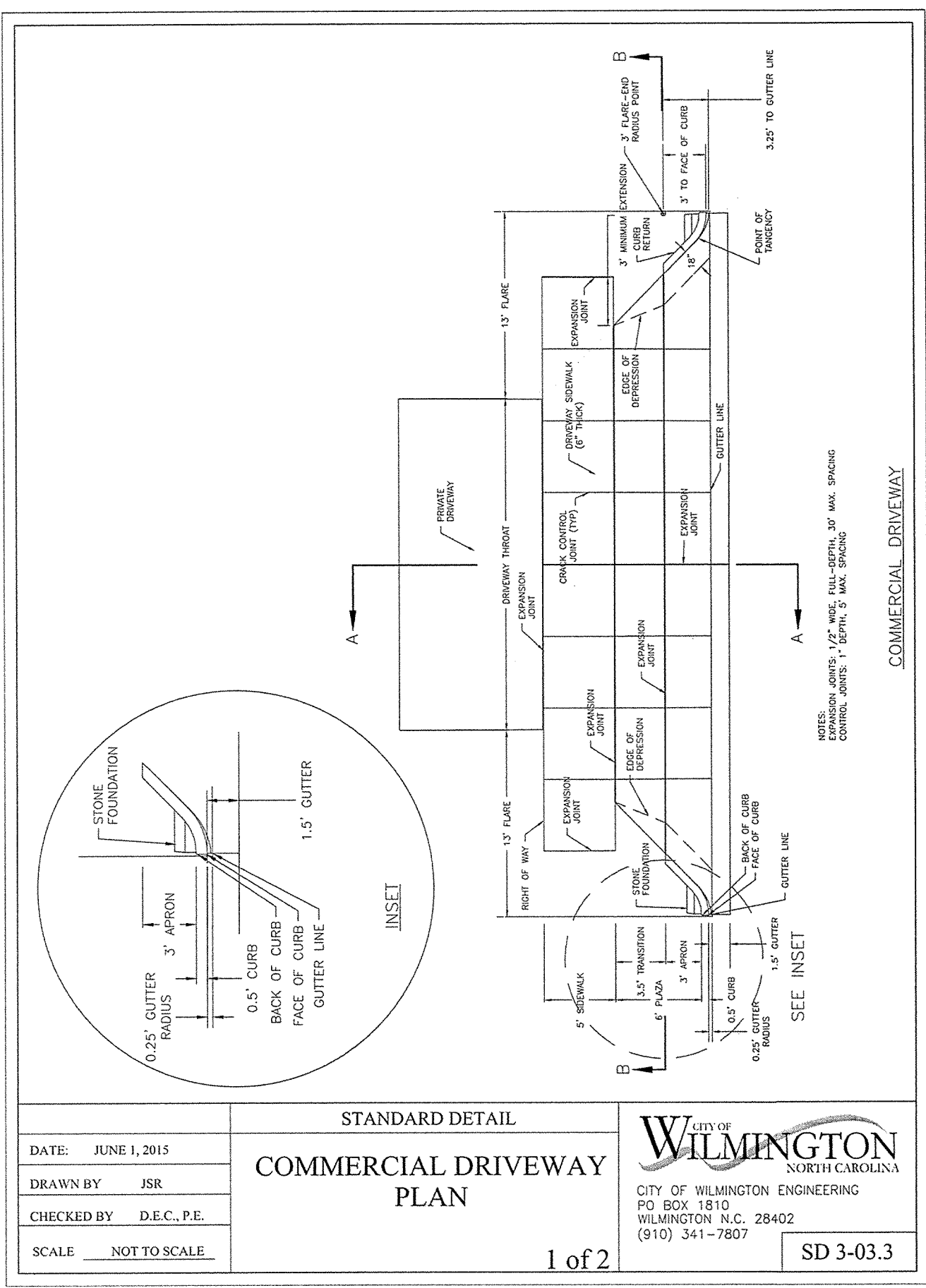
DES. JPN
CHK. JPN
DRWN. EDB
DATE 08/09/18

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

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



C6



SYMBOL	DATE	DESCRIPTION	BY
		REVISIONS	

DETAILS

DOLLAR GENERAL - PINE GROVE
810 PINE GROVE DRIVE
NEW HANOVER COUNTY, NORTH CAROLINA

OWNER:
 PAR 5 DEVELOPMENT, LLC
 2860-B NC HWY 5
 ABERDEEN, NC 28315
 (P) 910-944-0881
 lee@theisoncompanies.com

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 CONSULTING ENGINEERS P.C.

902 MARKET STREET
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1429 ASH-LITTLE RIVER RD. NW
 ASH, NC 28420
 PHONE (910) 287-5900

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

Date: _____ Permit # _____
 Signed: _____

Approved Construction Plan

Name _____ Date _____

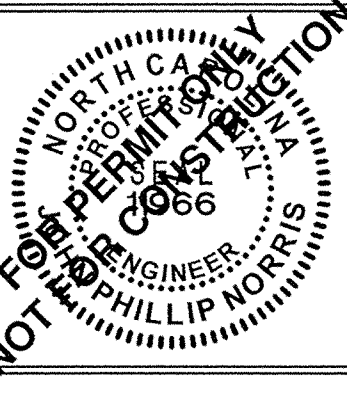
Planning _____
 Traffic _____
 Fire _____

License #C-3641

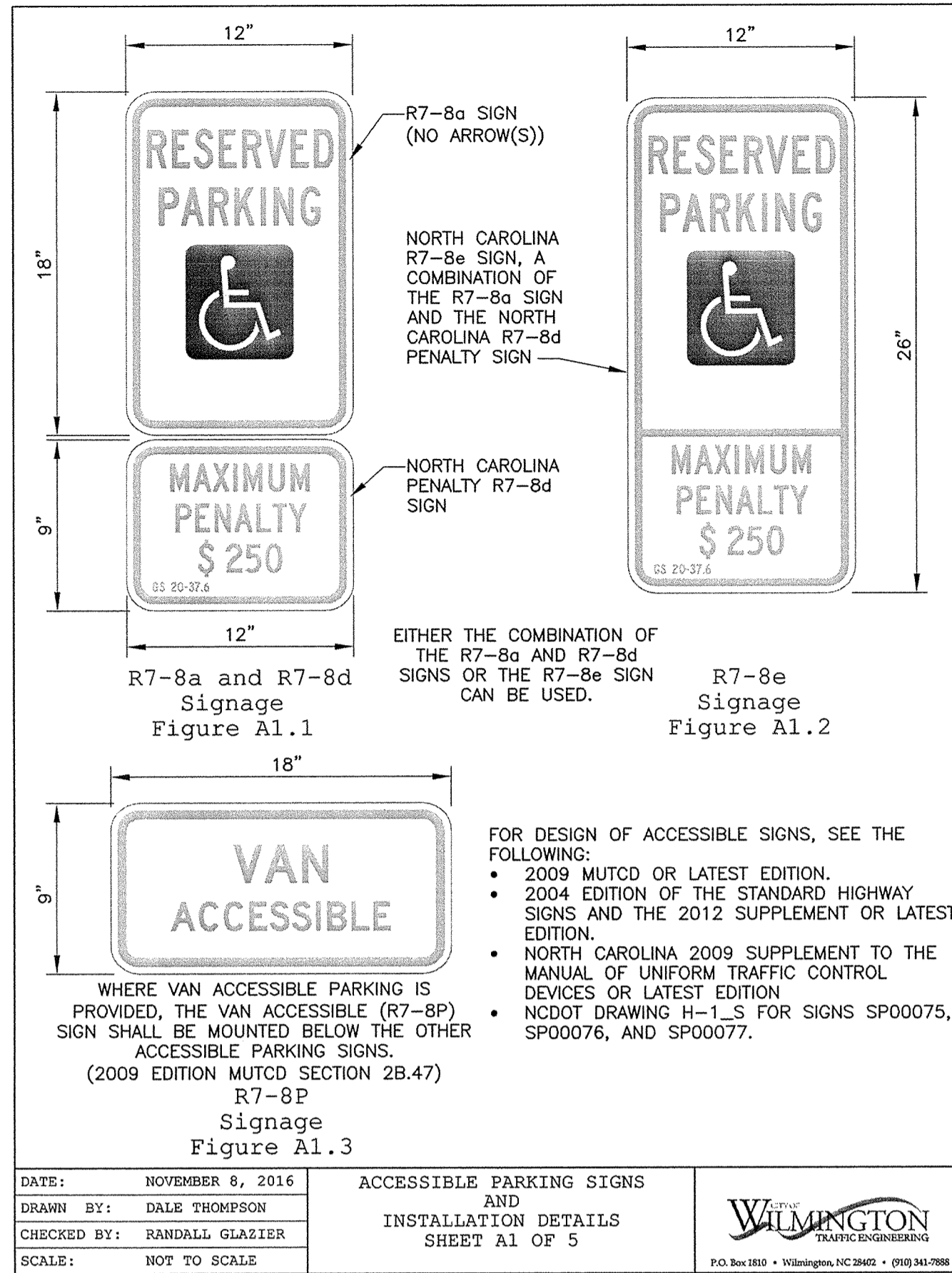
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 DRWN. EDB

DATE 08/09/18



C7



1. Variances on stall widths, angle and other dimensions will be allowed only upon approval of the Traffic Engineer.

2. Wheel stops shall be required three (3) feet from the end of parking stall when using eighteen (18) feet deep stalls.

3. Curbing, crosssties, utility poles, etc., can be used as wheel stops. (Must be anchored down)

4. All medians shall be a minimum of six (6) feet wide.

5. Parking bays which terminate at a circulation way shall provide for a minimum turning radius of twenty-five (25) feet, as measured from the edge of the travel portion.

6. All parking stall markings and lane arrows shall be white.

7. All other pavement markings, signs or other traffic control devices shall conform to the latest edition and/or interpretation of the Manual on Uniform Traffic Control Devices (MUTCD).

8. No obstructions will be allowed adjacent to a parking stall which would prevent safe ingress and egress from a parked vehicle.

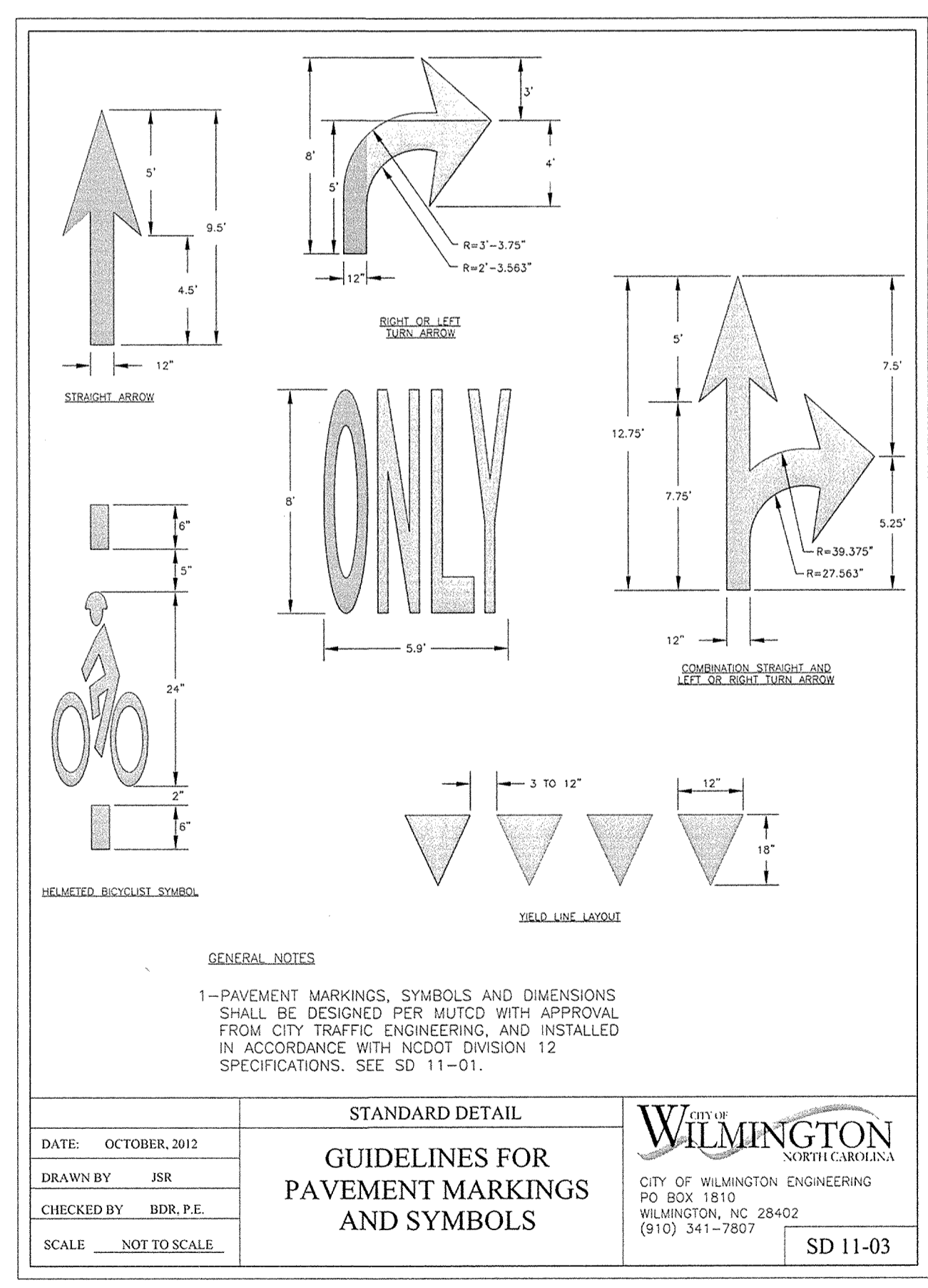
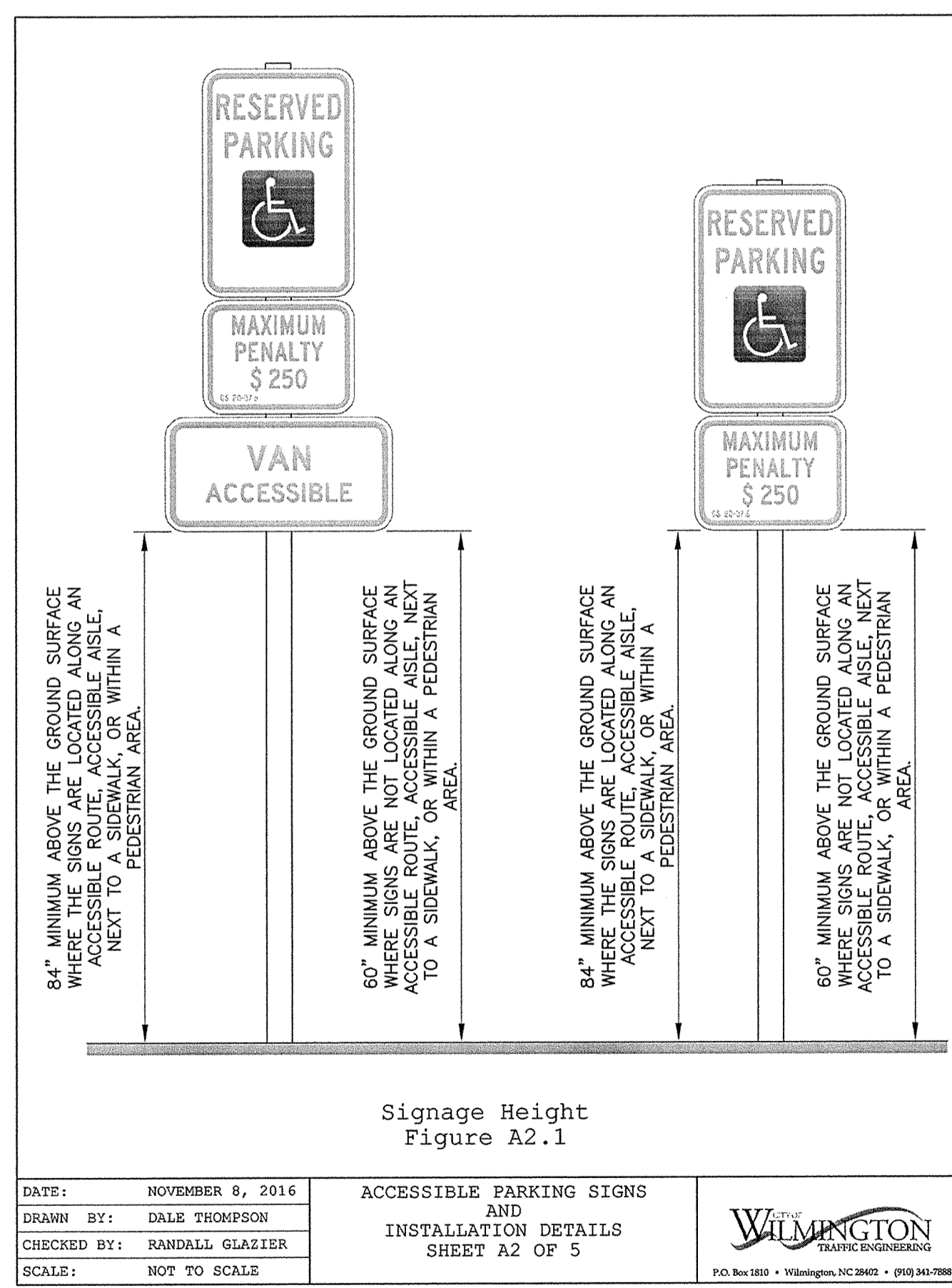
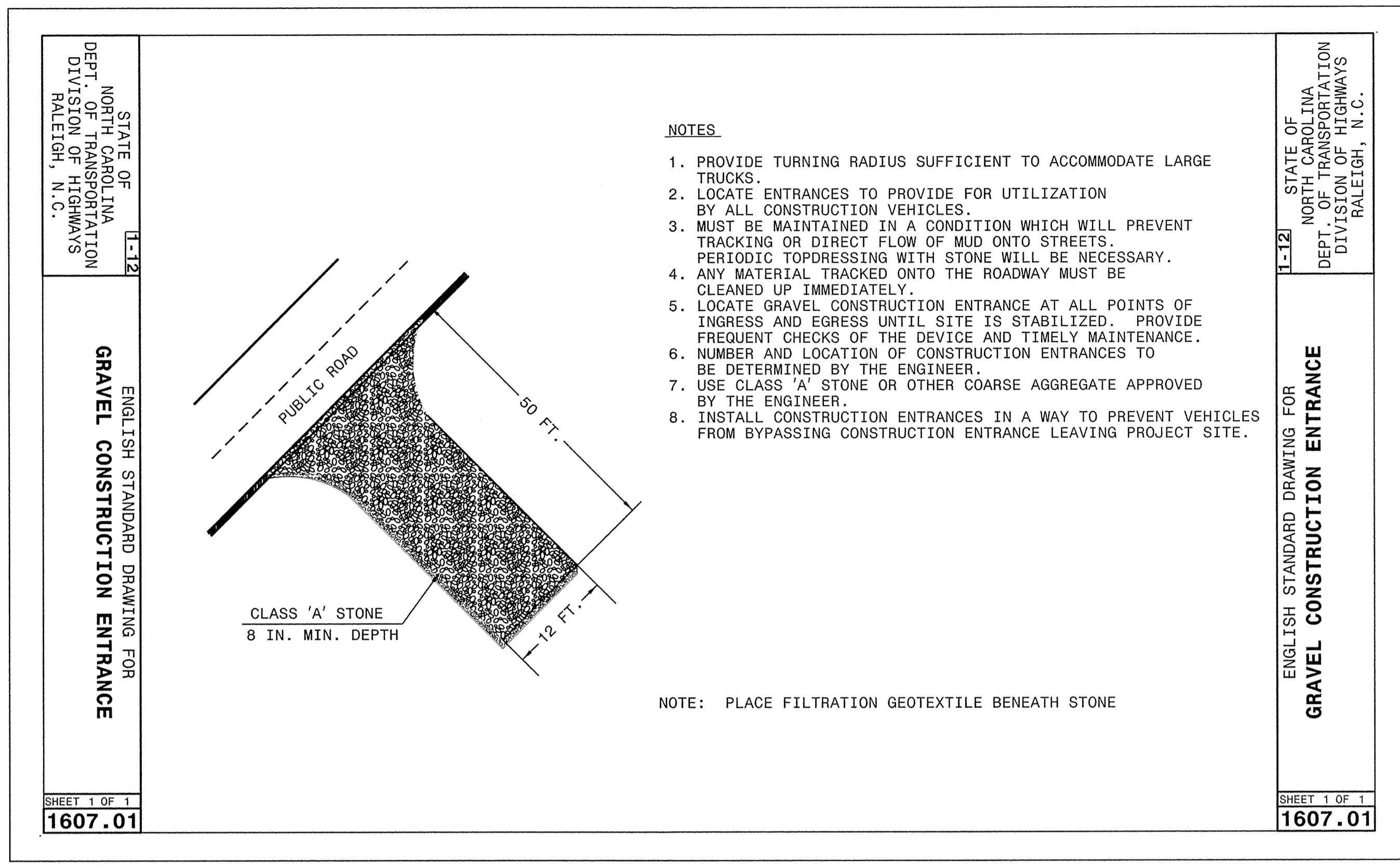
9. Parking in fire lanes and in non-residential driveways shall be prevented by standard signs and as needed by portable barricades.

DATE: 2001
DRAWN BY: JSR/CMR
CHECKED BY: B.P., P.E.
SCALE: NOT TO SCALE

STANDARD DETAIL
PARKING FACILITY DESIGN NOTES

CITY OF WILMINGTON
NORTH CAROLINA
CITY OF WILMINGTON ENGINEERING
PO BOX 1810
WILMINGTON, NC 28402
(910) 341-7807

SD 15-13



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

Date: _____ Permit # _____
Signed: _____

Approved Construction Plan

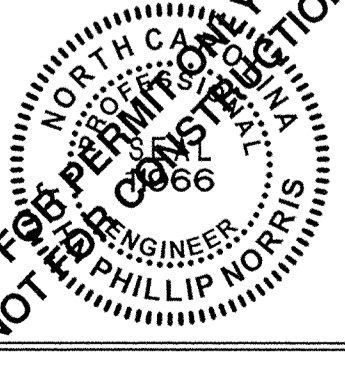
Name _____ Date _____

Planning _____
Traffic _____
Fire _____

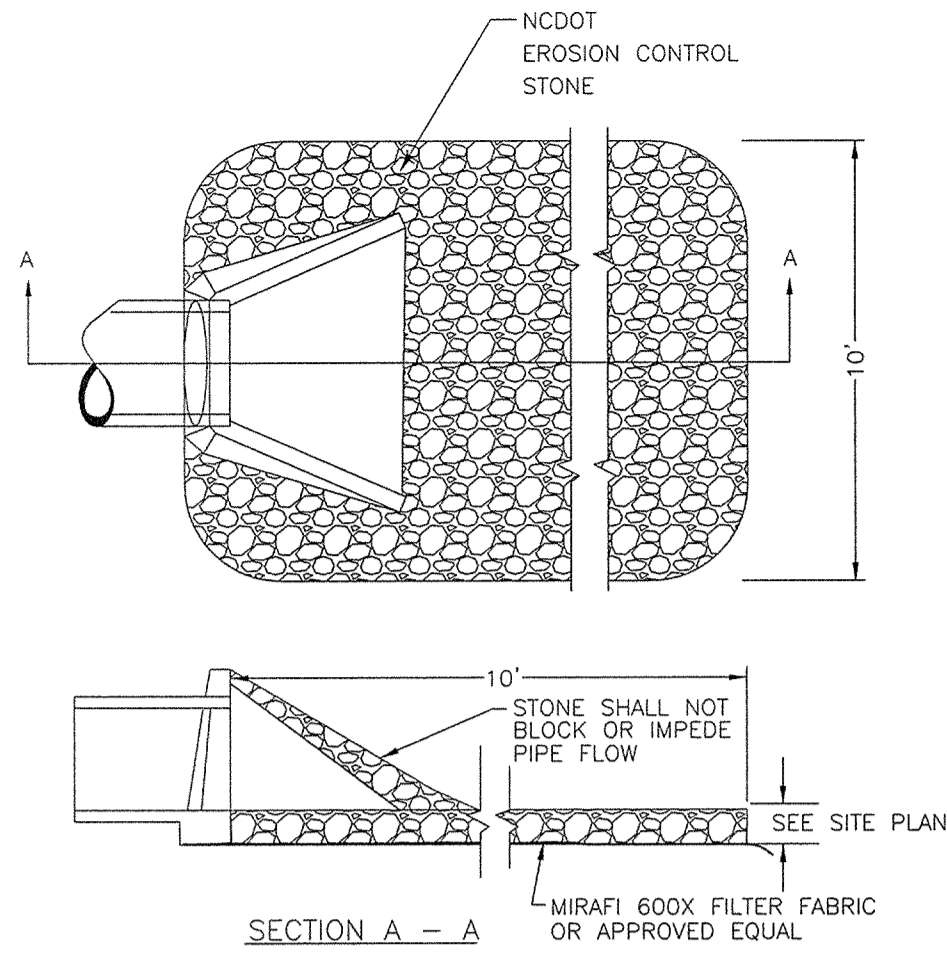
OWNER:
PAR 5 DEVELOPMENT, LLC
2860-B NC HWY 5
ABERDEEN, NC 28315
(P) 910-944-0881
lee@thetsoncompanies.com

NORRIS & TUNSTALL
CONSULTING ENGINEERS P.C.
1429 ASH-LITTLE RIVER RD, NW
ASH, NC 28420
WILMINGTON, NC 28401
PHONE (910) 343-9653

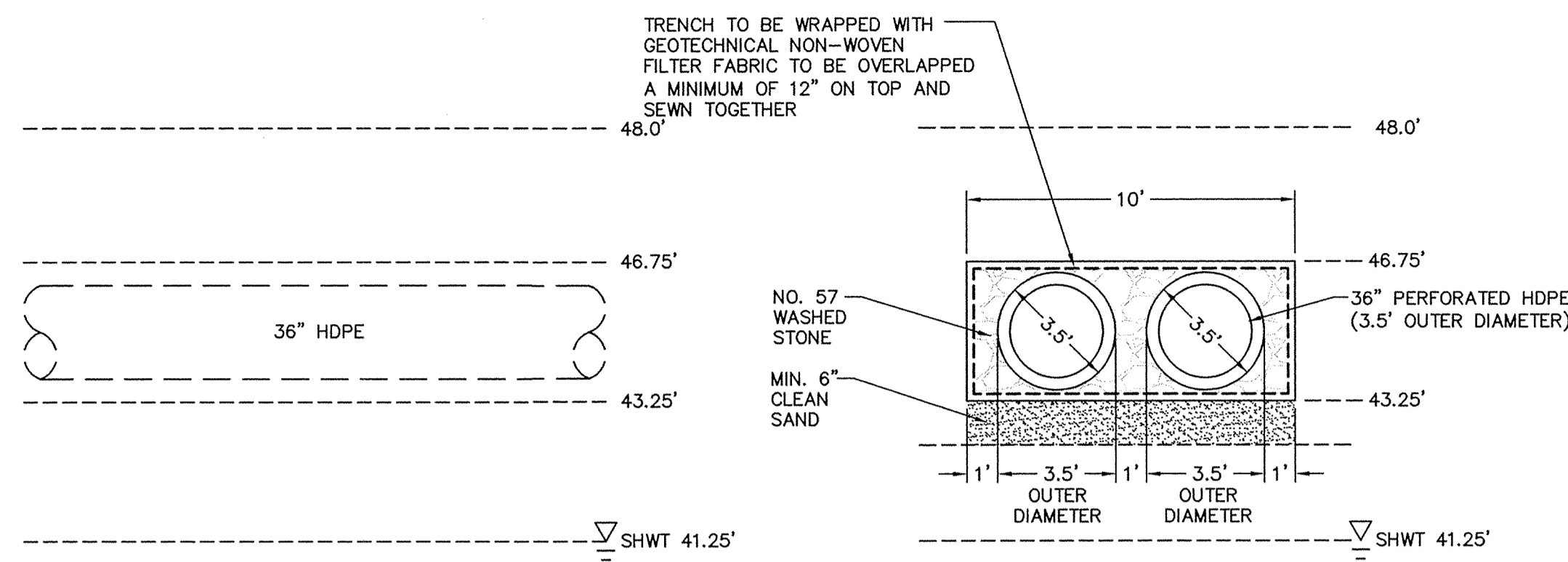
Licence #C-3641
17145
DES. JPN
CKD. JPN
DRWN. EDB
DATE 08/09/18



C8

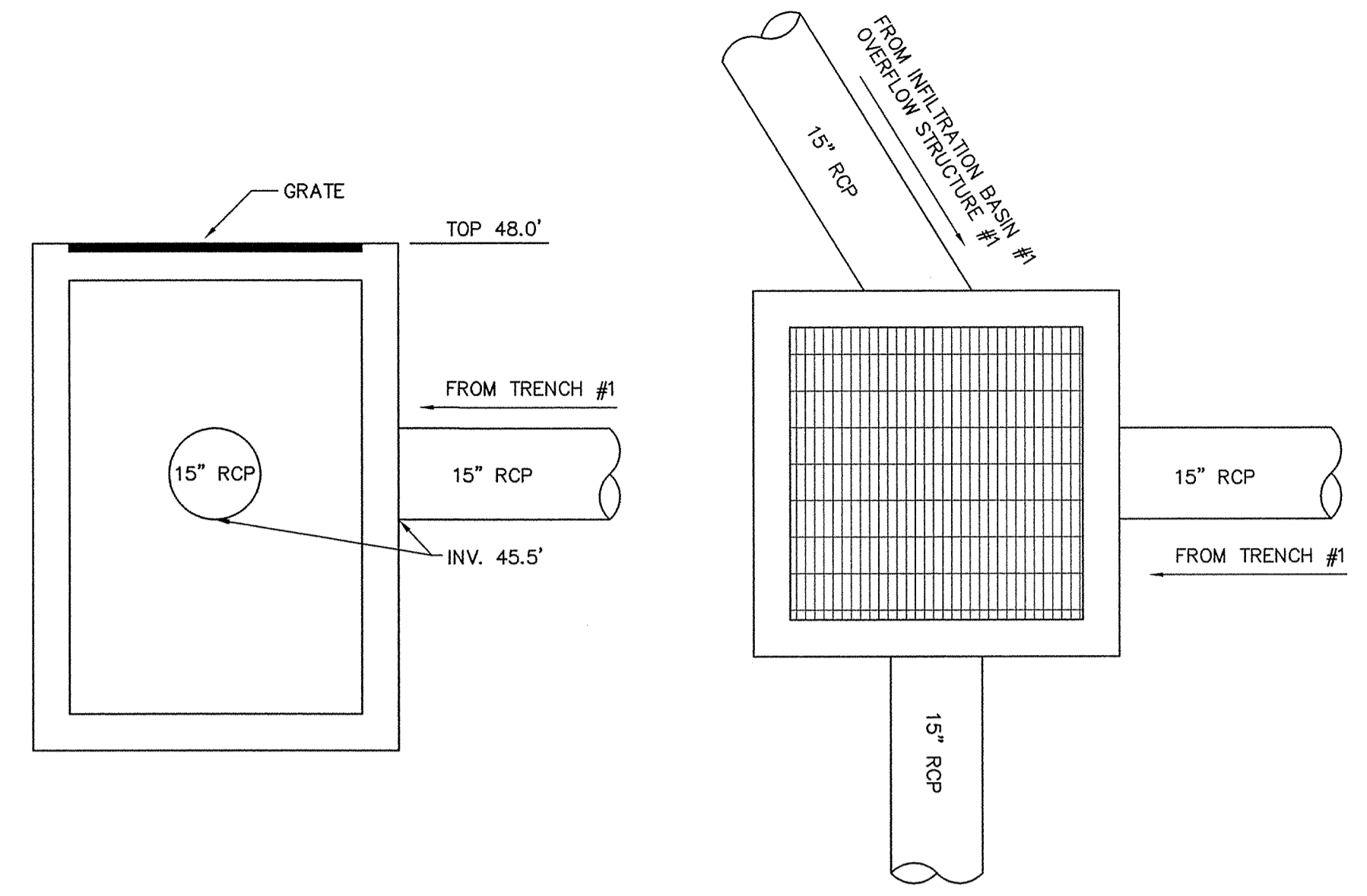


ENERGY DISSIPATOR
NTS



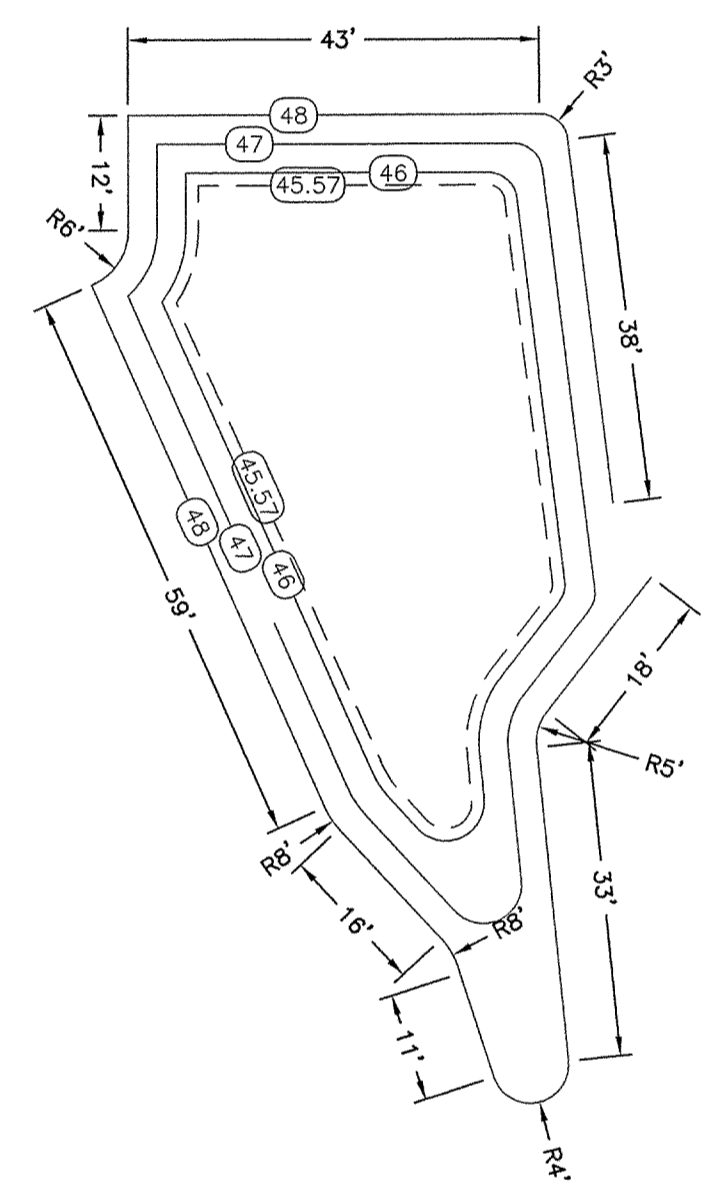
INFILTRATION TRENCH SECTION B-B
NTS

INSTALL PER MANUFACTURERS RECOMMENDATIONS:
 ~ 36" PERFORATED ADS N-12 PIPE w/OUTER DIAMETER OF 42"
 ~ SPACING BETWEEN PIPE LATERALS OF 12"
 ~ TRENCH WIDTH = 10'
 ~ TRENCH LENGTH = 75'



JUNCTION BOX #1 - (JB#1)
NTS

**INFILTRATION BASIN #1
OVERFLOW STRUCTURE #1**
NTS

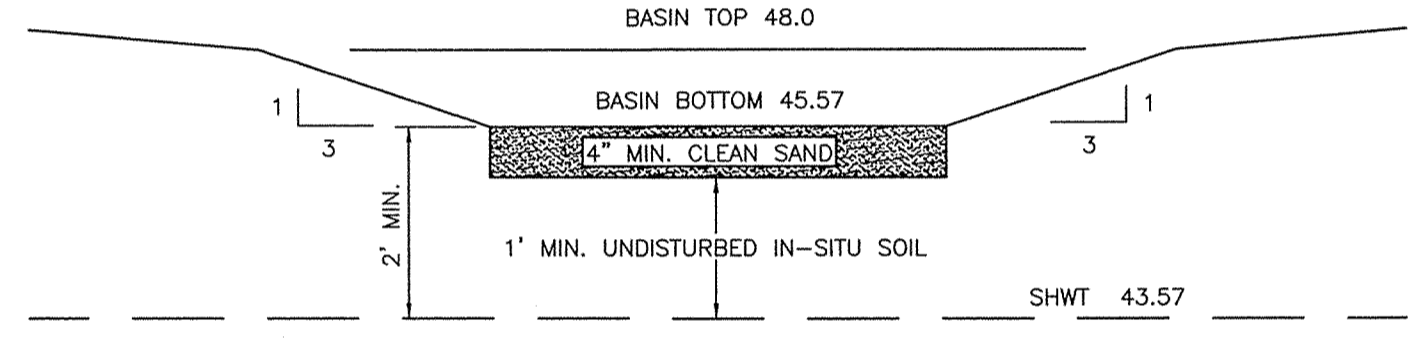


INFILTRATION BASIN #1
NTS

NOTE:
 ONCE THE SITE IS STABLE, ALL ACCUMULATED SEDIMENT SHALL BE REMOVED FROM THE INFILTRATION BASIN, AND THE BASIN SHALL BE RESTORED TO ITS DESIGN SPECIFICATIONS. BASIN SIDE SLOPES SHALL BE STABILIZED WITH SOD OR MATTING AND FEED.

INFILTRATION BASIN #1

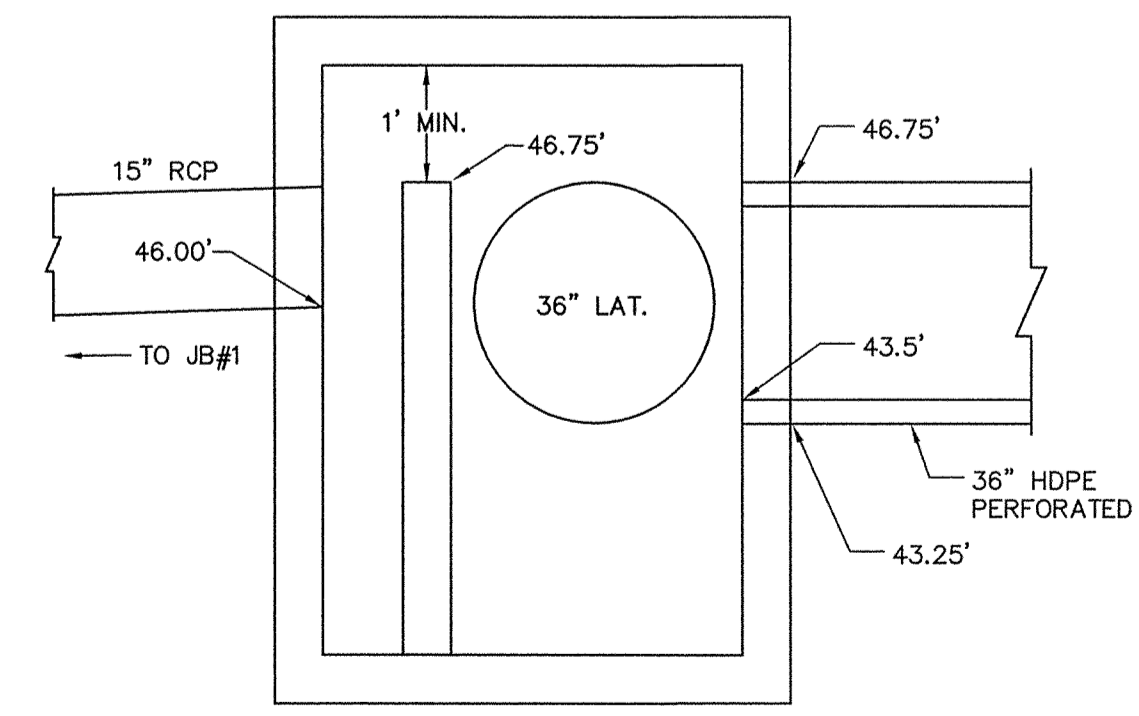
ELEV: SA: SHWT @ 46.57
 48.0 3,385 SF i=10.3 in/hr
 47.0 2,529 SF
 46.0 1,878 SF
 45.57 1,645 SF



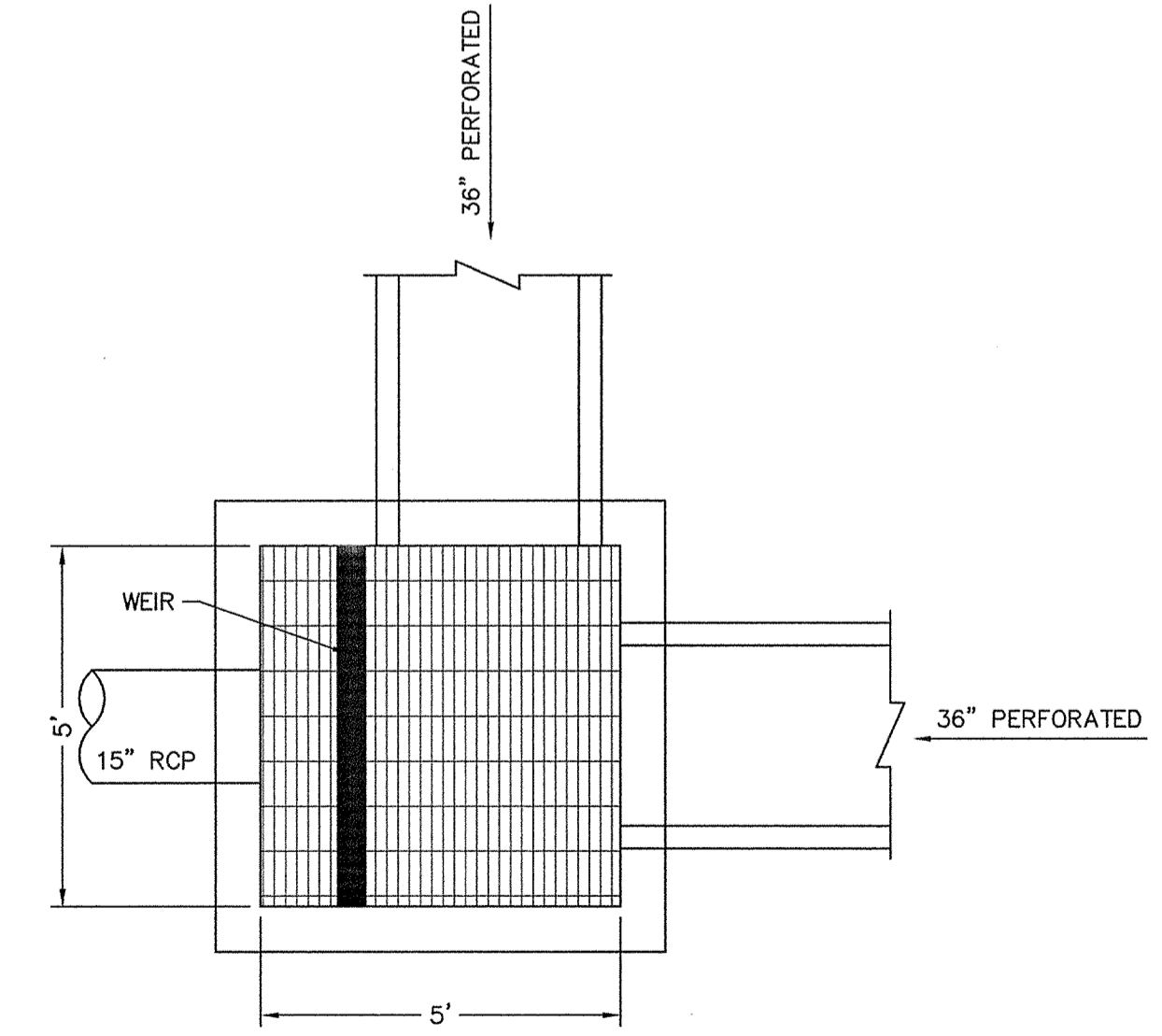
TYPICAL INFILTRATION BASIN: CROSS SECTION
NTS

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

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



OVERFLOW STRUCTURE #2
NTS



SYMBOL	DATE	DESCRIPTION	BY

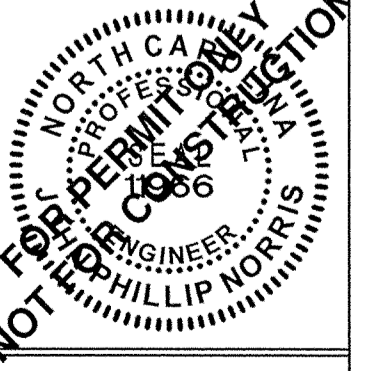
REVISIONS
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DETAILS
DOLLAR GENERAL - PINE GROVE
810 PINE GROVE DRIVE
NEW HANOVER COUNTY, NORTH CAROLINA

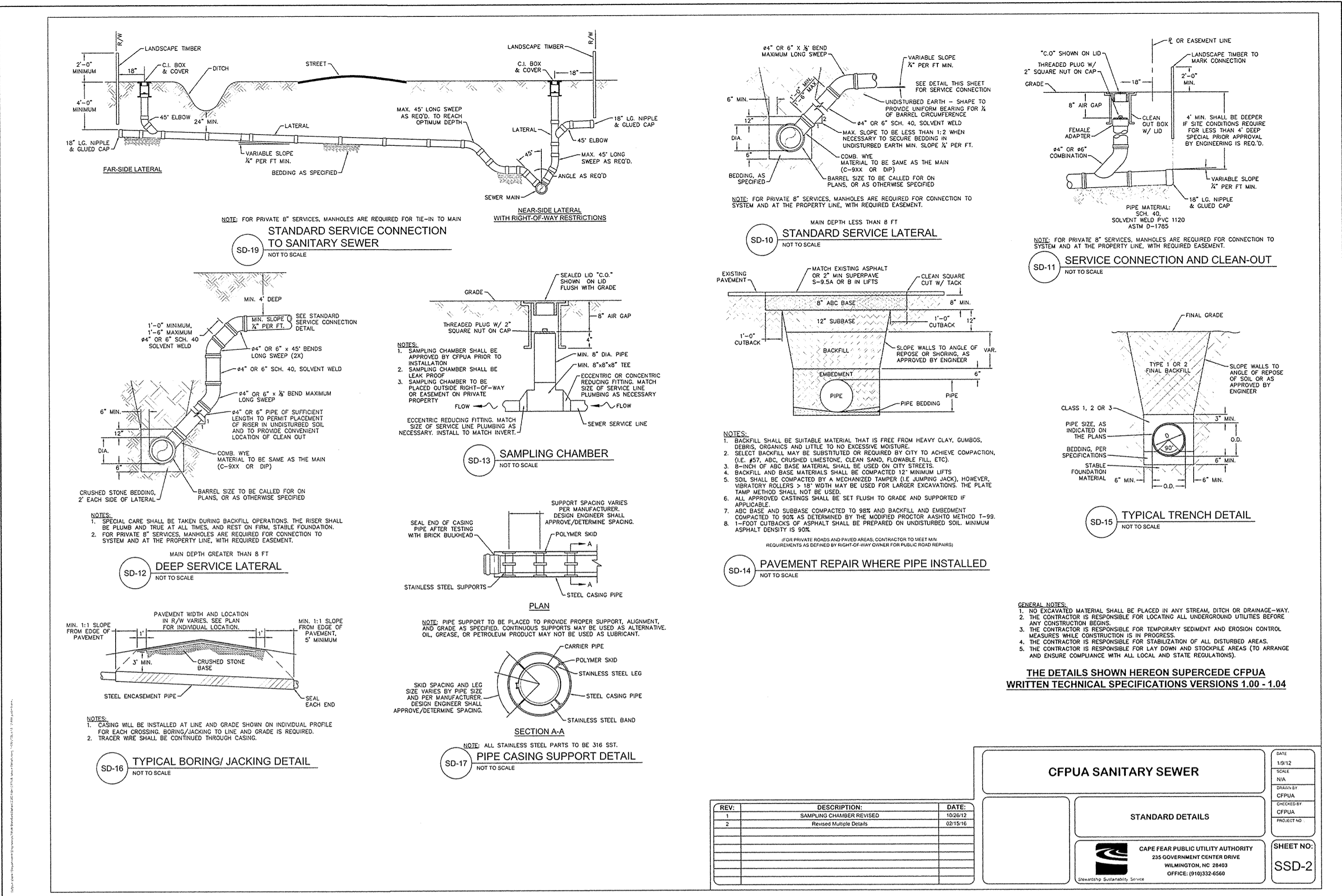
OWNER:
 PAR 5 DEVELOPMENT, LLC
 2860-B NC HWY 5
 ABERDEEN, NC 28315
 (P) 910-944-0881
 lee@thetsoncompanies.com

NORRIS & TUNSTALL
 CONSULTING ENGINEERS P.C.
 1429 ASH-LITTLE RIVER RD. NW
 ASH, NC 28420
 WILMINGTON, NC 28401
 PHONE (910) 343-9653

Licence #C-3641
17145
 DES. JPN
 CKD. JPN
 DRWN. EDB
 DATE 08/09/18



C9



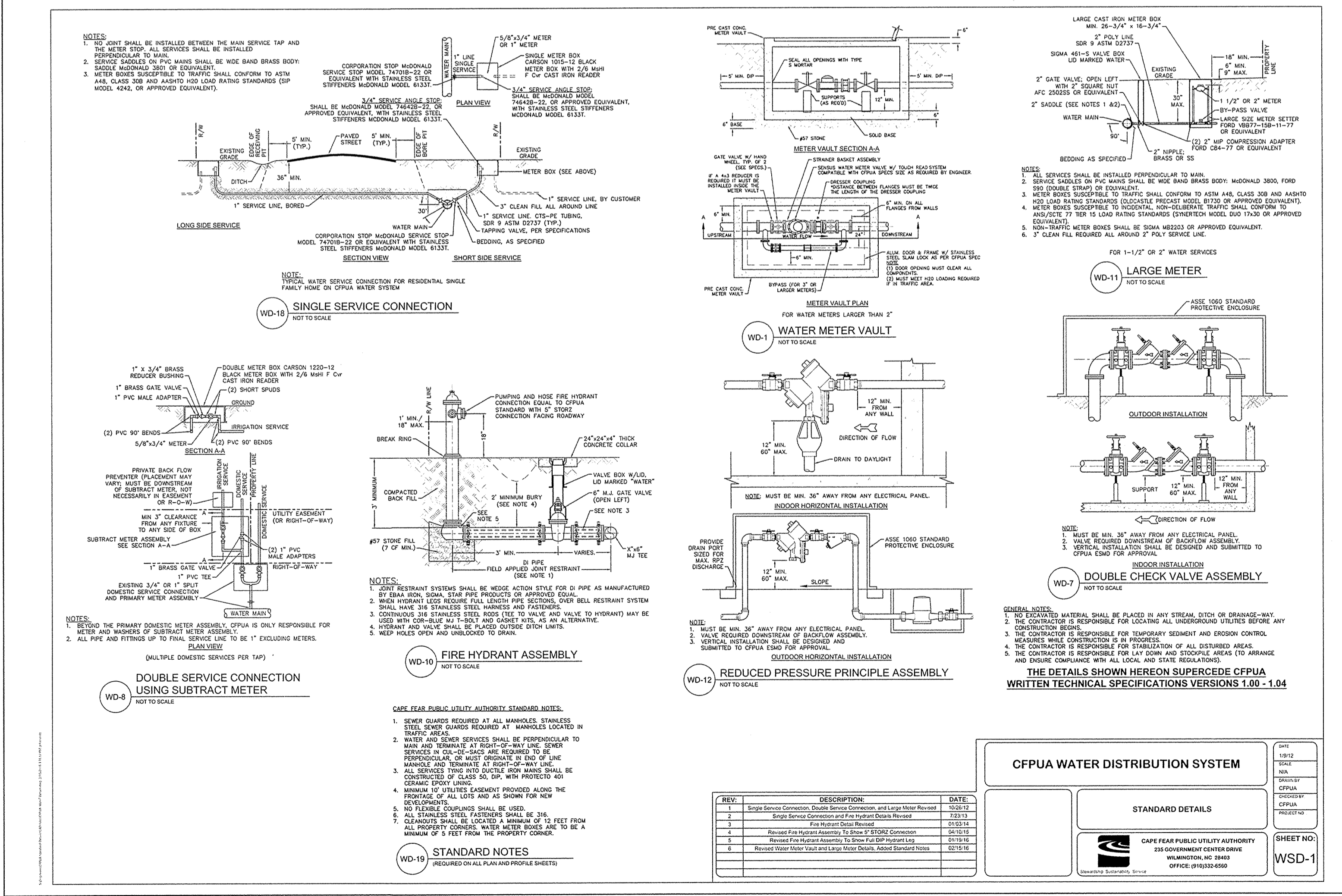
REV.	DESCRIPTION	DATE
1	ISSUED FOR CONSTRUCTION	03/15/18
2	REVISIONS	03/15/18

CFPUA SANITARY SEWER

STANDARD DETAILS

CAPE FEAR PUBLIC UTILITY AUTHORITY
235 GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403
OFFICE: (910)332-6559

SHEET NO. **SSD-2**



REV.	DESCRIPTION	DATE
1	Single Service Connection, Double Service Connection, and Large Meter Detail	03/15/18
2	Double Service Connection and Fire Hydrant Detail	03/15/18
3	Water Meter Vault Detail	03/15/18
4	Reduced Pressure Principle Assembly, To Show 1/2" STAINLESS STEEL	04/10/18
5	Reduced Pressure Principle Assembly, To Show 1/2" STAINLESS STEEL	03/15/18
6	Reduced Pressure Principle Assembly, To Show 1/2" STAINLESS STEEL	03/15/18

CFPUA WATER DISTRIBUTION SYSTEM

STANDARD DETAILS

CAPE FEAR PUBLIC UTILITY AUTHORITY
235 GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403
OFFICE: (910)332-6559

SHEET NO. **WSD-1**

SYMBOL	DATE	DESCRIPTION
		REVISIONS

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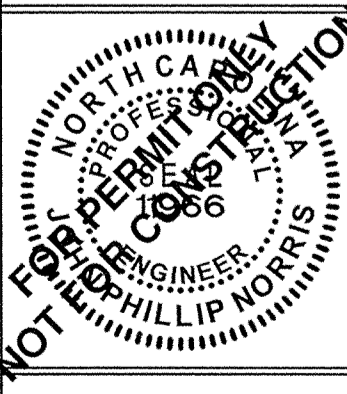
DETAILS

DOLLAR GENERAL - PINE GROVE
810 PINE GROVE DRIVE
NEW HANOVER COUNTY, NORTH CAROLINA

OWNER:
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License #C-3641
17145
DES. JPN
CHK. JPN
DRWN. EDB
DATE 08/09/18



C10