

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" DEODAR CEDAR	REMOVE
26" PINE (LONGLEAF)	SAVE
26" PINE (LONGLEAF)	SAVE
26" PINE (LONGLEAF)	SAVE
30" PINE (LONGLEAF)	SAVE
30" PINE (LONGLEAF)	SAVE
32" PINE (LONGLEAF)	SAVE

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

*Arthur And
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 1968
Zoning R-15
Residential*

*35 C. & Donna C. Johnson
Wood Acres
Map Book 893
123*

*Hewletts Rn Homeowners Association
Deed Book 2251, Page 928
Zoning R-15
Residential*

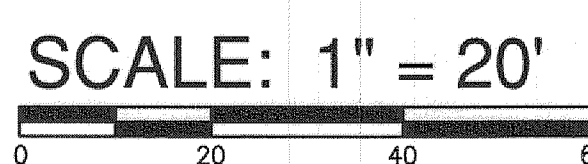
CITY OF WILMINGTON
NORTH CAROLINA
Public Services • Engineering Division
APPROVED STORMWATER MANAGEMENT PLAN
Date: _____ Permit # _____
Signed: _____

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



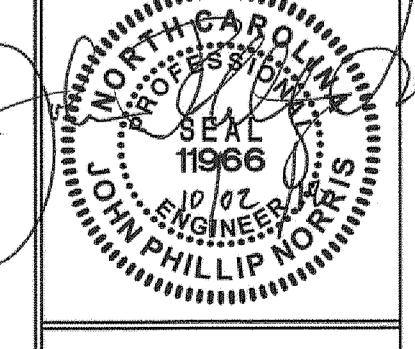
SYMBOL	DATE	DESCRIPTION	BY
REVISIONS			

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

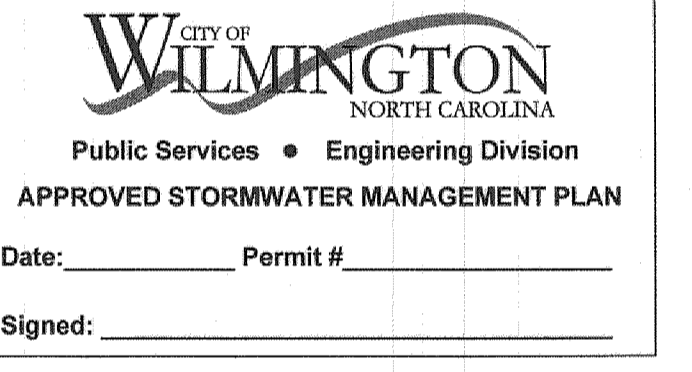
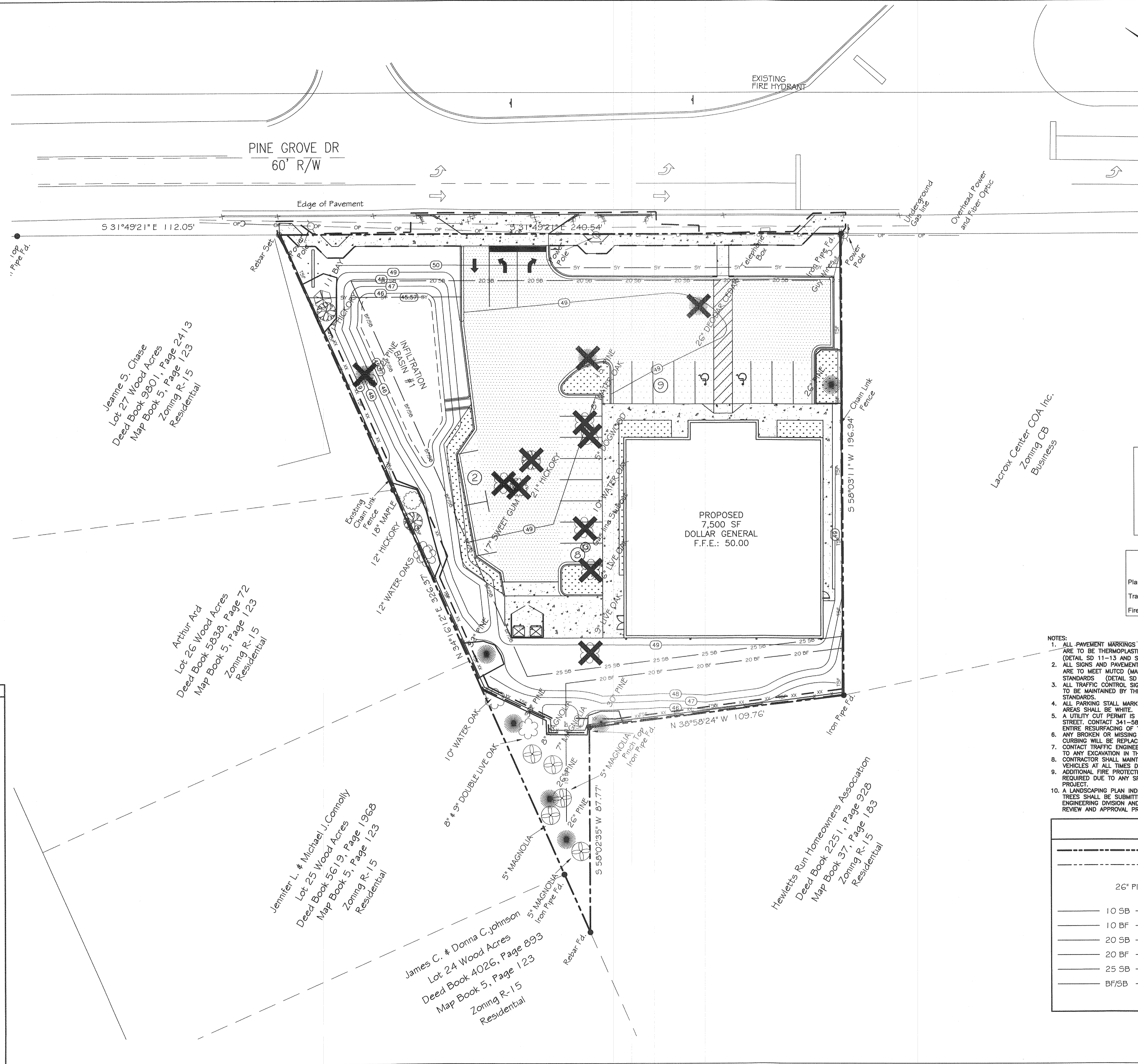
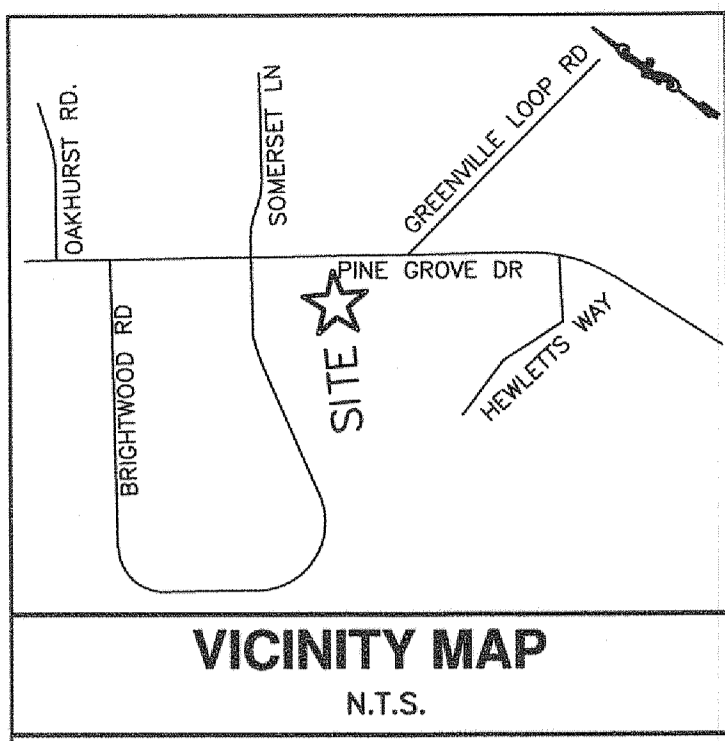
OWNER:
PAR 5 DEVELOPMENT, LLC
2660 R NC HWY 5
ABERDEEN, NC 28315
(719) 910-944-0881
lee@thetsoncompanies.com

NORRIS & TUNSTALL
CONSULTING ENGINEERS P.C.
1429 ASHLITTLE RIVER RD, NW
DURHAM, NC 27604
PHONE (919) 343-3665

License #C-3641
17145
DES. JPN
CKD. JPN
DRWN. EDB
DATE 10/02/18



C1.1



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 NCDOT STANDARDS. (DETAIL SD 11-13 AND SD 15-13 Co/W 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 Co/W TECHNICAL STANDARDS)
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 - 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 SAVED
	10' SETBACK
	10' BUFFER
	20' SETBACK
	20' BUFFER
	25' SETBACK
	20' BUFFER / BUILDING SETBACK

SCALE: 1" = 20'

SITE DATA	
PARCEL NUMBER:	R06116-001-004-000
NEW SITE AREA:	41,828.29 SF / 0.96 AC
ZONING:	R-15
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:	20' - ADJACENT TO RESIDENTIAL
REAR:	25' - ADJACENT TO RESIDENTIAL
BUFFER:	20' - ADJACENT TO RESIDENTIAL
EXISTING IMPERVIOUS:	5,275 SF
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
STREET/YARD:	
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

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

Arthur Ard
Lot 26 Wood Acres
Deed Book 583B, Page 72
Zoning R-15
Residential

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

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

Hewletts Run Homeowners Association
Deed Book 225 I, Page 928
Zoning R-15
Residential

Lacrox Center COA Inc.
Zoning CB
Business

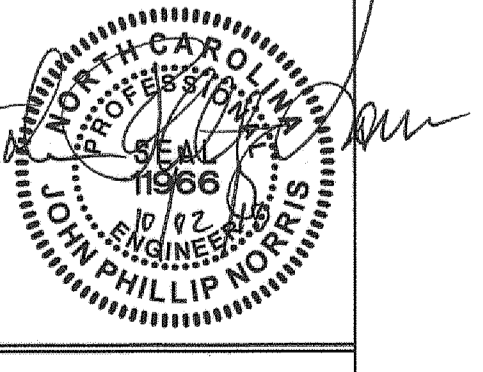
SYMBOL	DATE	DESCRIPTION	BY
		REVISIONS	

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

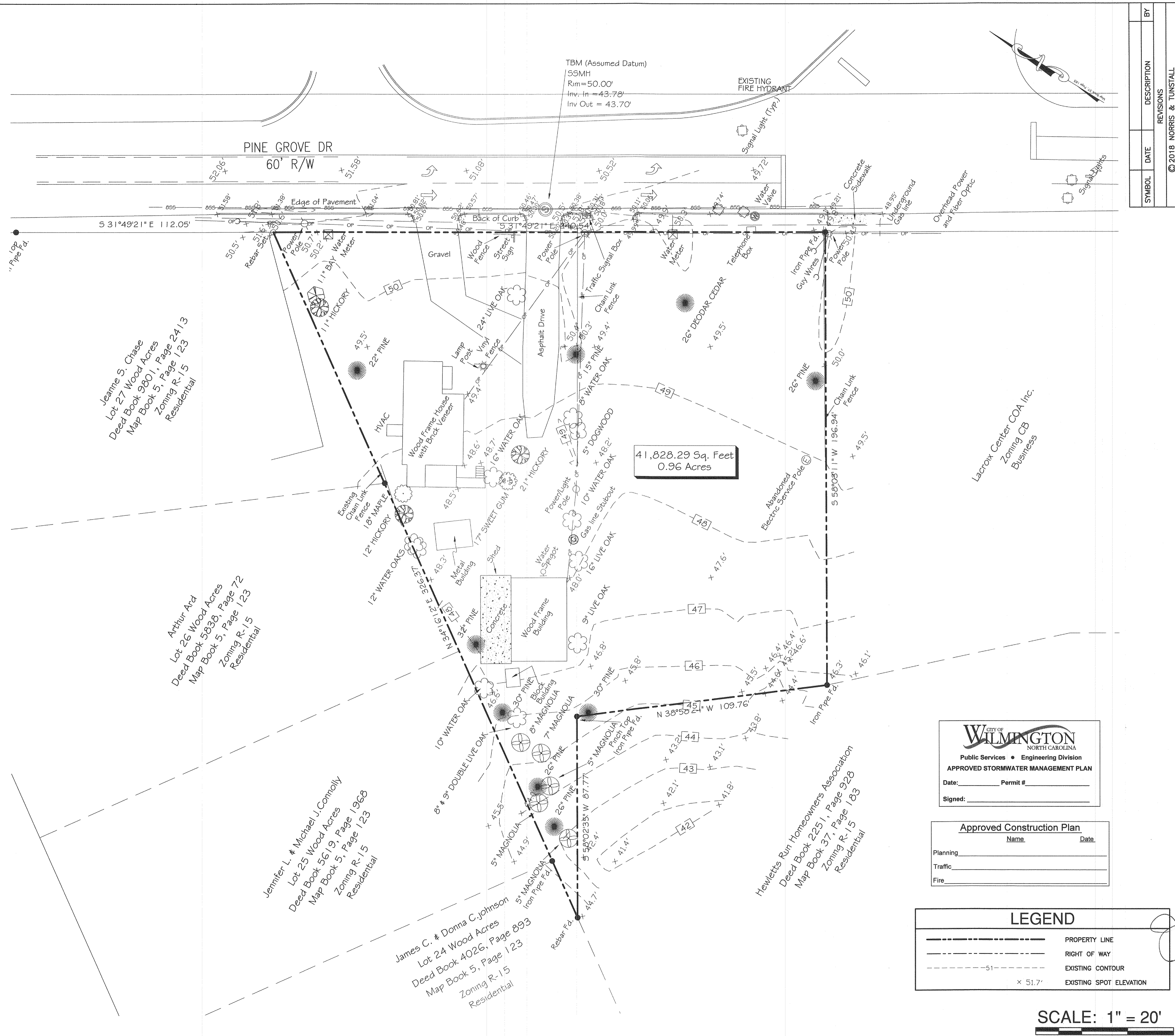
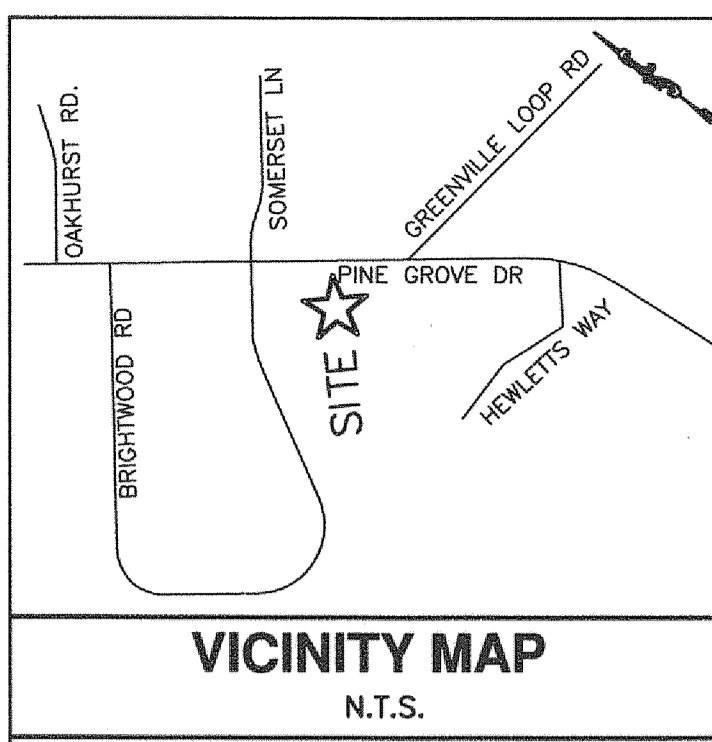
OWNER:
PAR 5 DEVELOPMENT, LLC
2860-B NC HWY 5
ABERDEEN, NC 28315
(P) 910-944-0881
lee@thetsoncompanies.com

NORRIS & TUNSTALL
CONSULTING ENGINEERS P.C.
1429 ASHLITTLE RIVER RD, NW
WILMINGTON, NC 28401
PHONE (910) 343-6653

License #C-3641
17145
DES. JPN
CRD. JPN
DRWN. EDB
DATE 10/02/18



C1.2



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" DEODAR CEDAR	REMOVE
26" PINE (LONLEAF)	SAVE
26" PINE (LONLEAF)	SAVE
26" PINE (LONLEAF)	SAVE
30" PINE (LONLEAF)	SAVE
30" PINE (LONLEAF)	SAVE
32" PINE (LONLEAF)	SAVE

SITE INVENTORY DATA	
PLAN PREPARER:	NORRIS & TUNSTALL CONSULTING ENGINEERS.
APPLICANT NAME:	J. PHILIP NORRIS, P.E.
SITE ADDRESS:	810 PINE GROVE DR.
PROPERTY OWNER:	FRANK McNEILL AND CARITA McNEILL
DEVELOPER:	PAR 5 DEVELOPMENT GROUP, LLC
PARCEL #:	RO6116-001-004-000
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

Public Services • Engineering Division

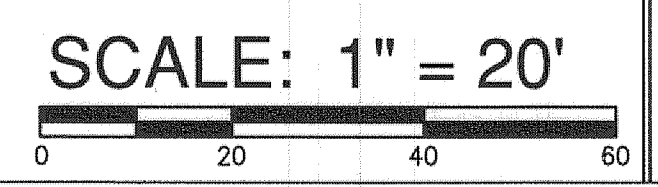
APPROVED STORMWATER MANAGEMENT PLAN

 Date: _____ Permit # _____

 Signed: _____

Approved Construction Plan	
Name	Date
Planning	
Traffic	
Fire	

LEGEND	
	PROPERTY LINE
	RIGHT OF WAY
	EXISTING CONTOUR
	EXISTING SPOT ELEVATION



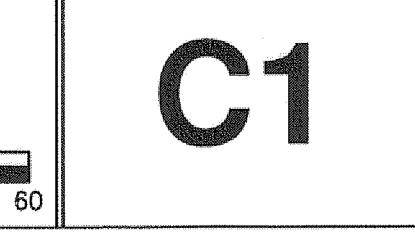
SYMBOL	DATE	DESCRIPTION	BY
		REVISIONS	

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

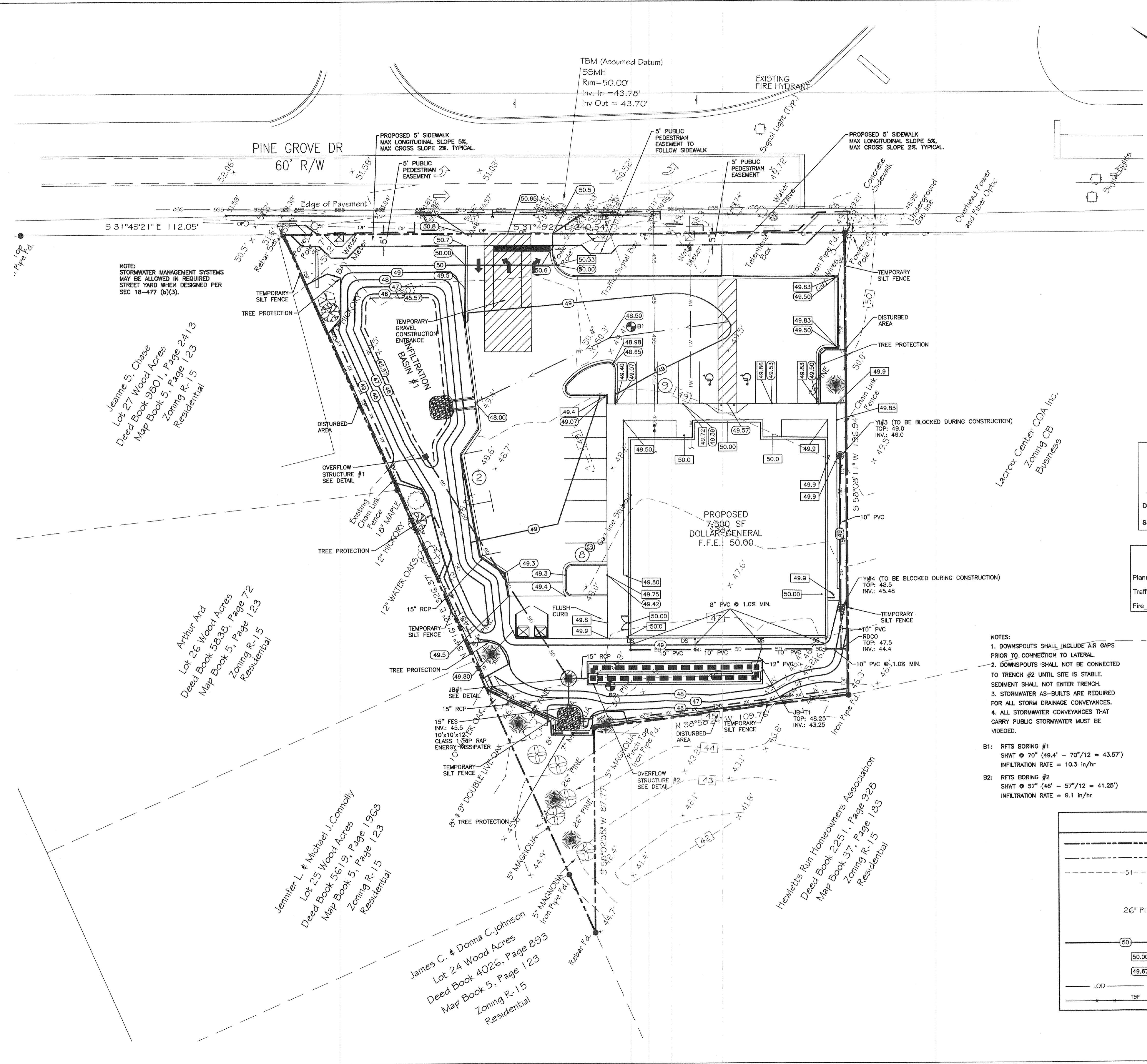
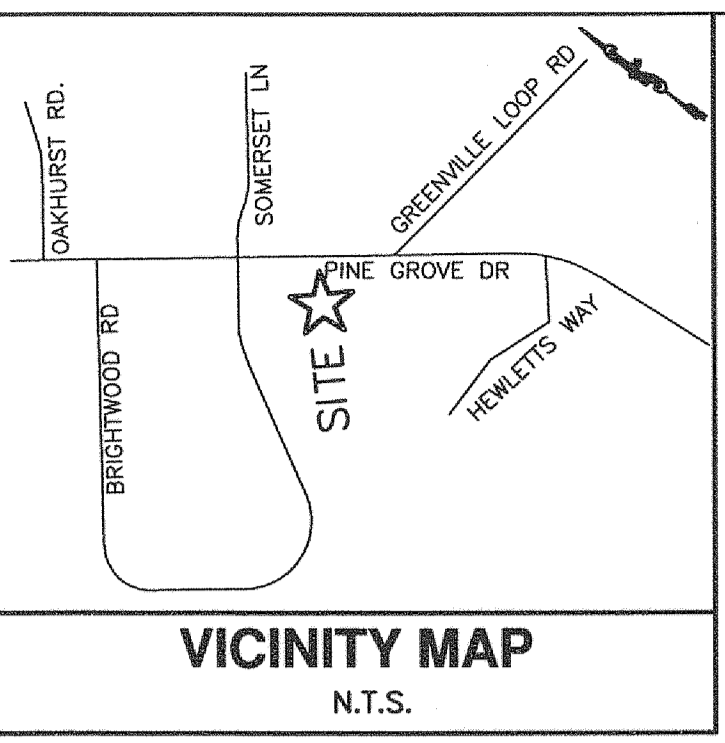
OWNER:
 PAR 5 DEVELOPMENT, LLC
 2860-B NC HWY 5
 ABERDEEN, NC 28315
 (P) 910-944-0881
 lee@rhetsoncompanies.com

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

License #C-3641
17145
 DES. JPN
 CVD. JPN
 DRWN. EDB
 DATE 10/02/18



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 9801, Page 2413
Zoning R-15
Residential

Arthur Ard
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 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

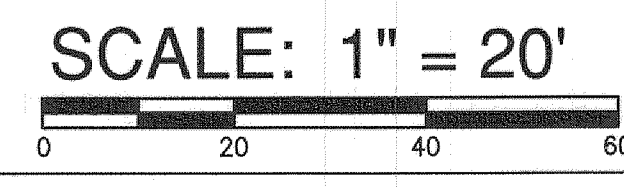
Hewlett's Run Homeowners Association
Deed Book 2251, Page 928
Map Book 37, Page 183
Residential

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

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

- NOTES:
1. DOWNSPOUTS SHALL INCLUDE AIR GAPS PRIOR TO CONNECTION TO LATERAL. SEDIMENT SHALL NOT ENTER TRENCH.
 2. DOWNSPOUTS SHALL NOT BE CONNECTED TO TRENCH #2 UNTIL SITE IS STABLE.
 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



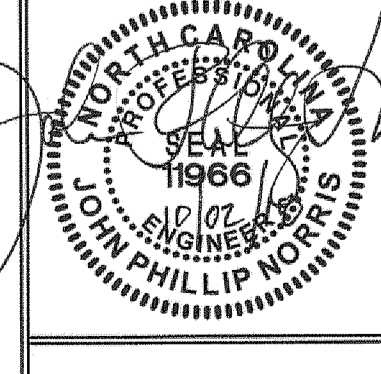
SYMBOL	DATE	DESCRIPTION	BY
		REVISIONS	

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

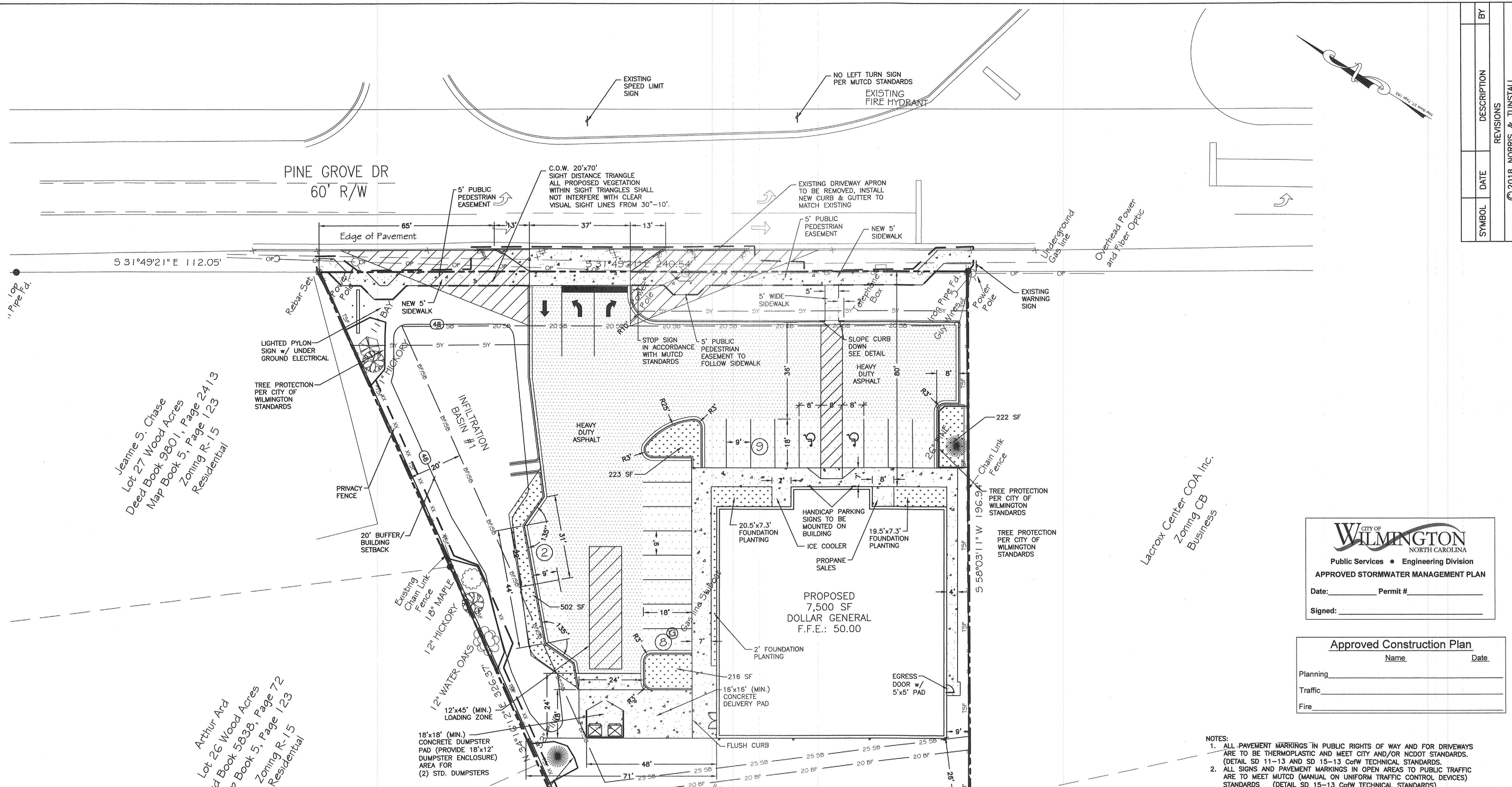
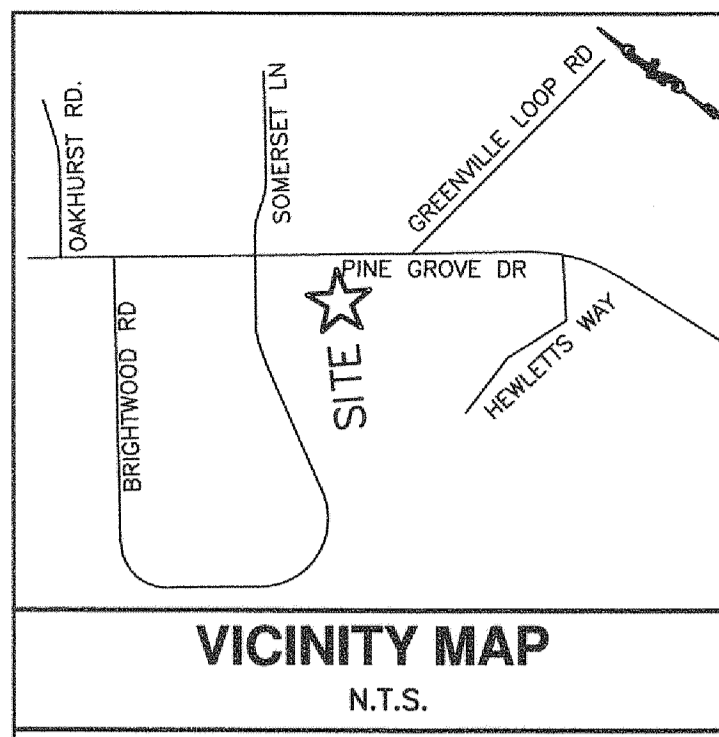
OWNER:
PAR S DEVELOPMENT, LLC
2860-B NC HWY 5
ABERDEEN, NC 28315
(P) 910-944-0881
lee@rhetsocompanies.com

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
CRD. JPN
DRWN. EDB
DATE 10/02/18



C2



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

Arthur Ard
 Lot 26 Wood Acres
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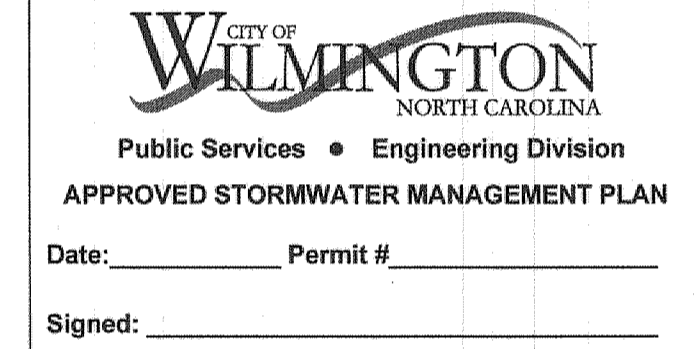
Jennifer L. & Michael J. Connolly
 Lot 25 Wood Acres
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 Zoning R-15
 Residential

James C. & Donna C. Johnson
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Lacrox Center COA Inc.
 Zoning CB
 Business

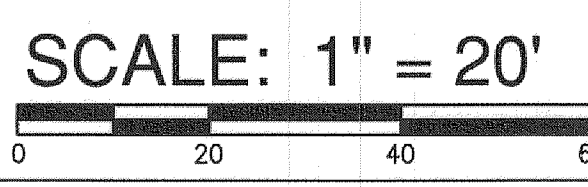
SITE DATA	
PARCEL NUMBER:	R08118-001-004-000
NEW SITE AREA:	41,828.29 SF / 0.96 AC
ZONING:	CB
DISTURBED AREA:	42,003 SF
BUILDING CONSTRUCTION TYPE:	2B
BUILDING USE:	RETAIL
BUILDING HEIGHT:	18' - 1 STORY - 7,500 SF
BUILDING LOT COVERAGE:	18%
WATER/SEWER DEMAND:	200 GALLONS PER DAY
BUILDING SETBACKS:	
FRONT:	20'
SIDE:	20' - 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:	3,820 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
STREETYARD:	
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'x68') .12 = 125.28 SF
PROVIDED: (SIDE)	130 SF
BICYCLE PARKING REQUIRED:	
BICYCLE PARKING PROVIDED:	5



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 NCDOT STANDARDS. (DETAIL SD 11-13 AND SD 15-13 CoW TECHNICAL STANDARDS).
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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



SYMBOL	DATE	DESCRIPTION	BY
REVISIONS			
© 2018 NORRIS & TUNSTALL			

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

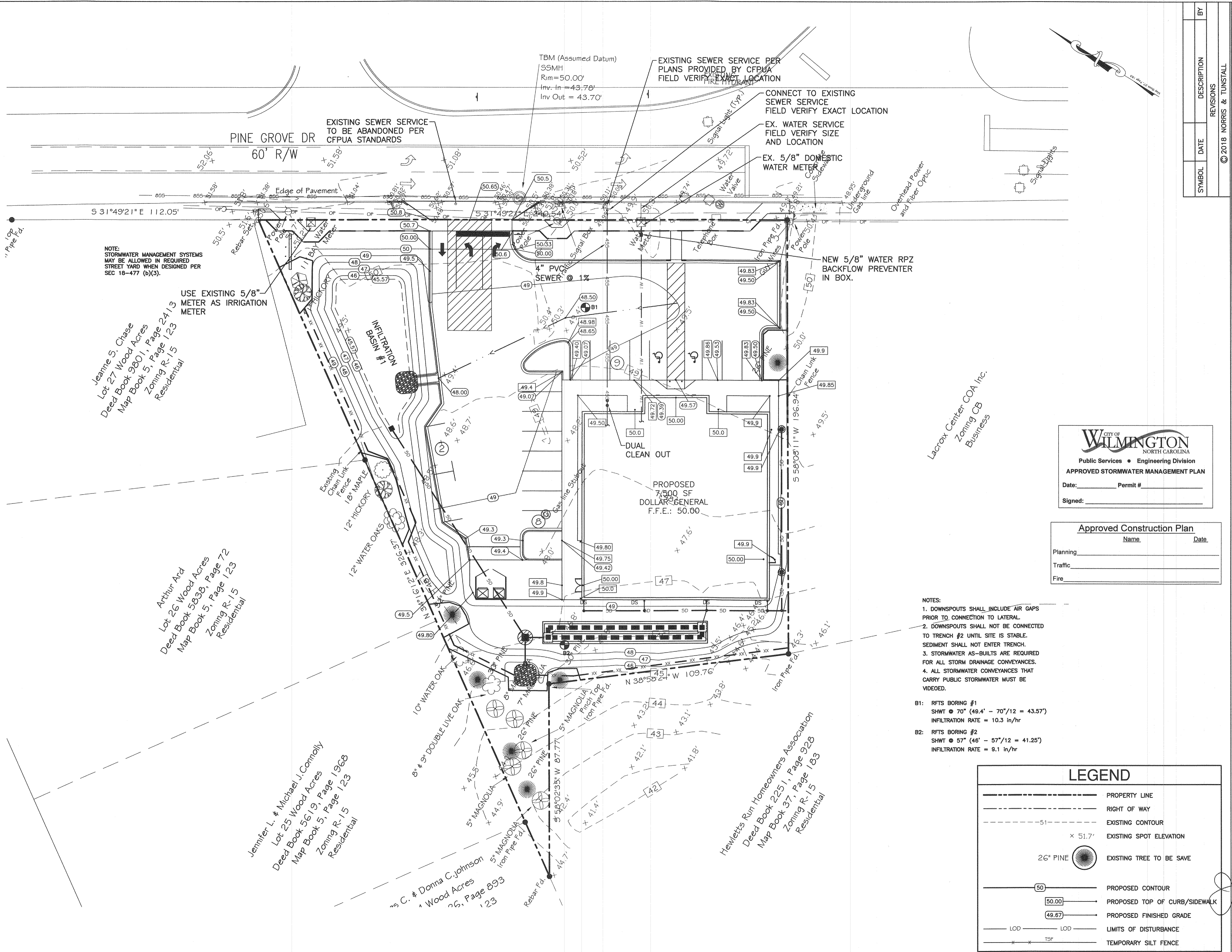
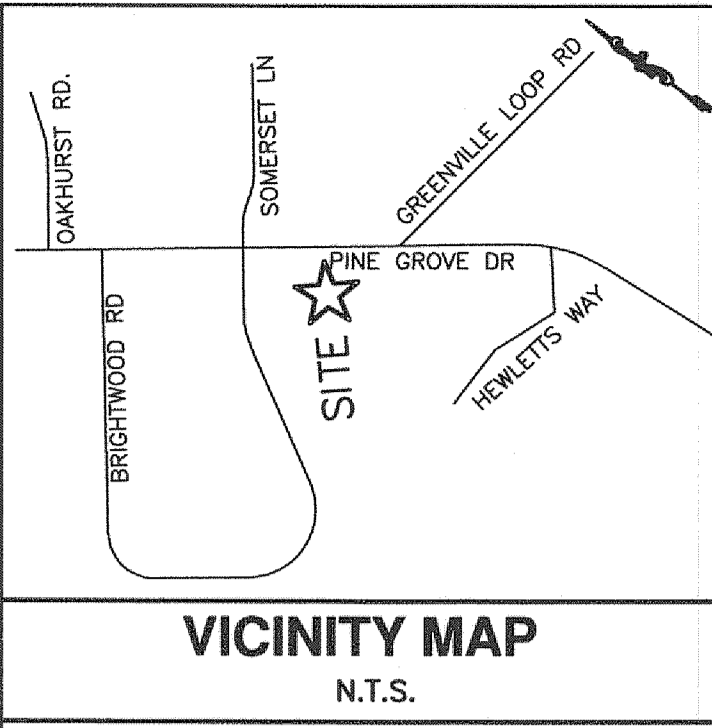
OWNER:
 PAR 5 DEVELOPMENT, LLC
 2660A NC HWY 5
 ABERDEEN, NC 28315
 (P) 910-944-0881
 lee@p5development.com

NORRIS & TUNSTALL
 CONSULTING ENGINEERS P.C.
 902 MARKET STREET
 WILMINGTON, NC 28401
 PHONE: (910) 343-9653

1429 ASHLITTLE RIVER RD, N.Y.
 WASHINGTON, NC 28420
 PHONE: (910) 287-5900

Licence #C-3641
17145
 DES. JPN
 CKD. JPN
 DRWN. EDB
 DATE 10/02/18

C3



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

USE EXISTING 5/8\"/>

Jeannie 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
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Residential

C. & Donna C. Johnson
Wood Acres
Deed Book 893, Page 123

Hewletts Run Homeowners Association
Deed Book 2251, Page 928
Map Book 37, Page 183
Residential

- NOTES:
1. DOWNSPOUTS SHALL INCLUDE AIR GAPS PRIOR TO CONNECTION TO LATERAL.
 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" (48' - 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
	EXISTING TREE TO BE SAVE
	PROPOSED CONTOUR
	PROPOSED TOP OF CURB/SIDEWALK
	PROPOSED FINISHED GRADE
	LIMITS OF DISTURBANCE
	TEMPORARY SILT FENCE

SCALE: 1" = 20'

SYMBOL	DATE	DESCRIPTION	BY
REVISIONS			
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UTILITY 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@rhetsoncompanies.com

NORRIS & TUNSTALL
CONSULTING ENGINEERS P.C.
1429 ASHLITTLE RIVER RD NW
WILMINGTON, NC 28401
PHONE (910) 344-9653

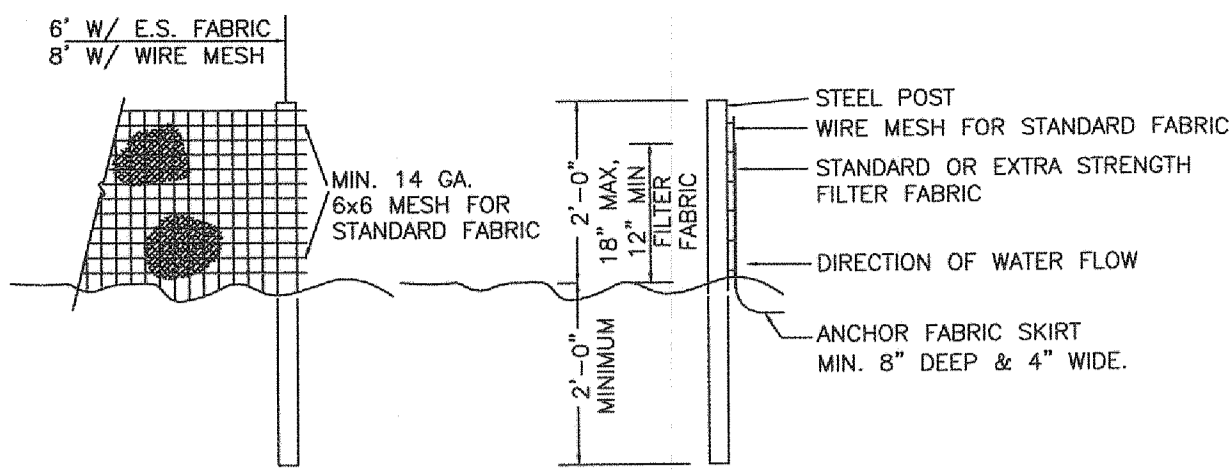
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DES.	JPN
CHK.	JPN
DRWN.	EDB

DATE 10/02/18

Seal: NORTH CAROLINA PROFESSIONAL ENGINEER
SEAL 11996
10/02/18
PHILLIP NORRIS

C4



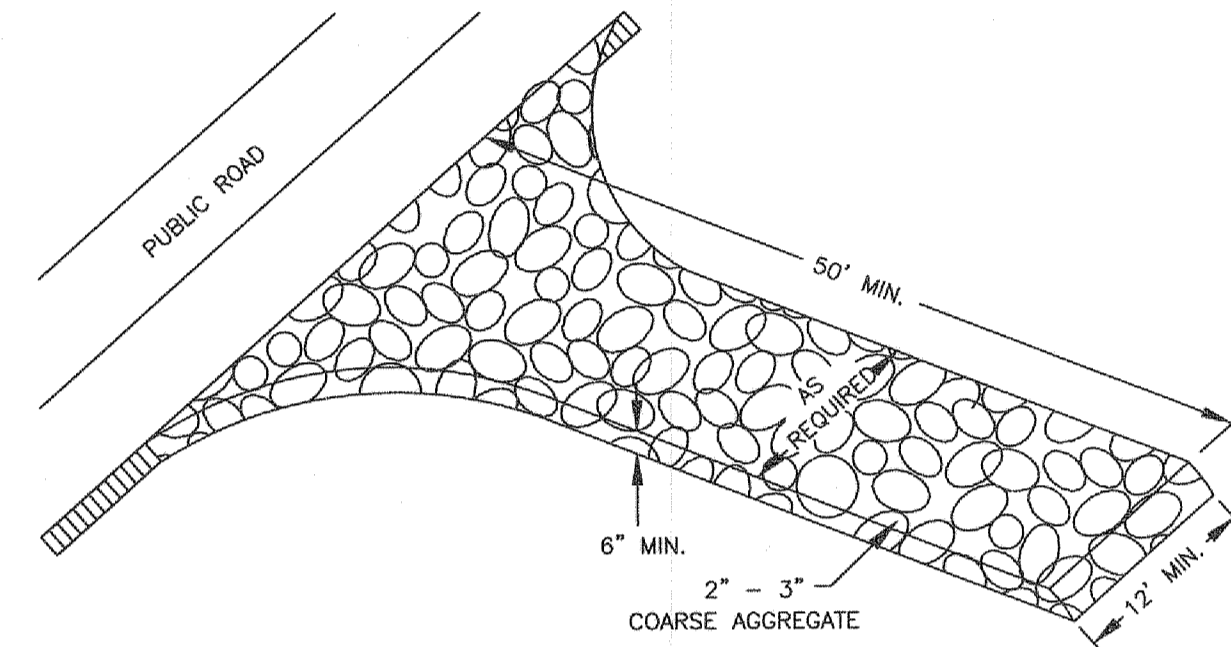
- NOTES:
1. SYN. FENCE FABRIC SHALL BE MIN. OF 30" IN WIDTH WITH 30 LB/IN TENSILE STRENGTH FOR STANDARD FABRIC AND 50 LB/IN FOR EXTRA STRENGTH.
 2. FABRIC SHALL BE CONTINUOUS LENGTH. IF JOINTS ARE NECESSARY, LAP FABRIC POST TO POST.
 3. STEEL POST SHALL BE MIN. 4" IN HEIGHT AND BE OF THE SELF-FASTENER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

TEMPORARY SILT FENCE

NTS

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.



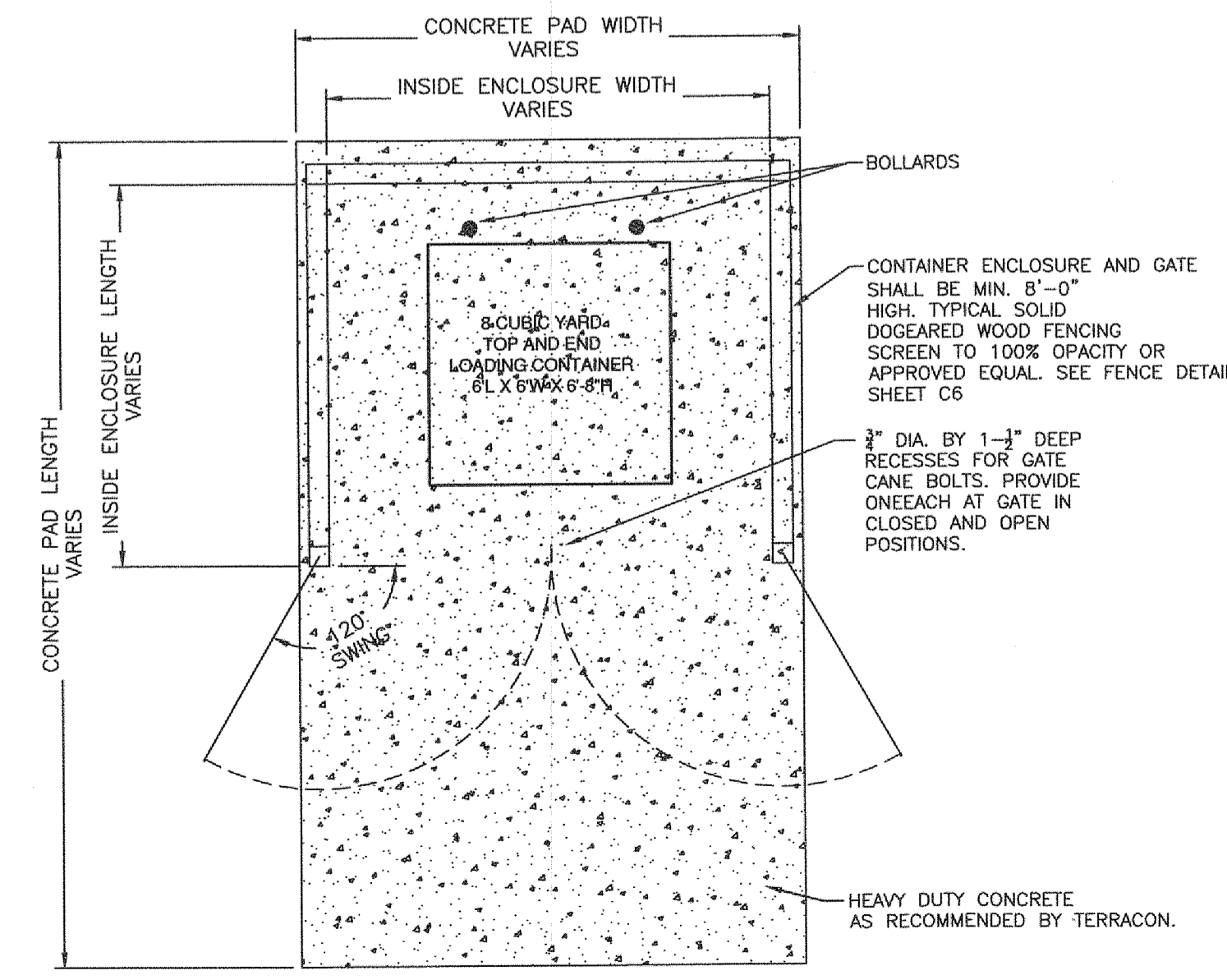
TEMPORARY GRAVELLED CONSTRUCTION ENTRANCE

NTS

GRAVEL CONSTRUCTION ENTRANCE

- 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.

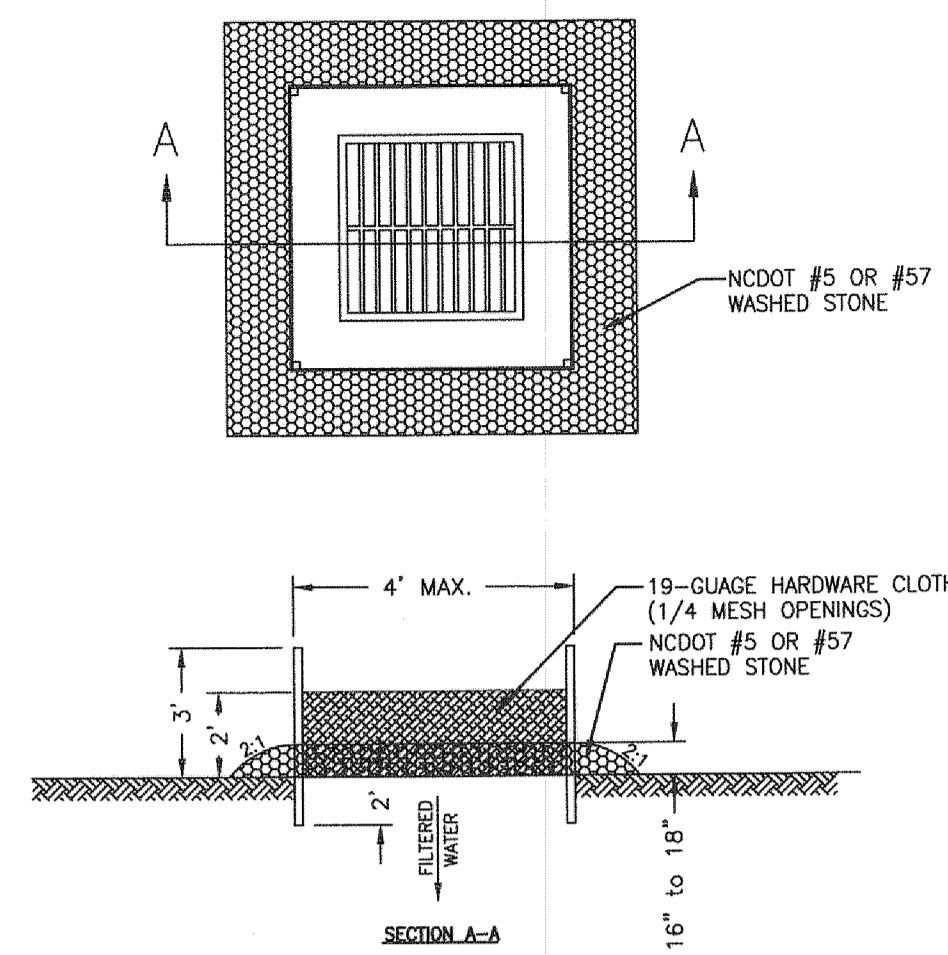
MAINTENANCE: MAINTAIN THE GRAVEL PAD IN A CONDITION TO PREVENT MUD OR SEDIMENT FROM LEAVING THE CONSTRUCTION SITE. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 2 INCH STONE. AFTER EACH RAINFALL, INSPECT ANY STRUCTURE USED TO TRAP SEDIMENT AND CLEAN IT OUT AS NECESSARY. IMMEDIATELY REMOVE ALL OBJECTIONABLE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



TYPICAL CONTAINER ENCLOSURE PLAN

NTS

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.

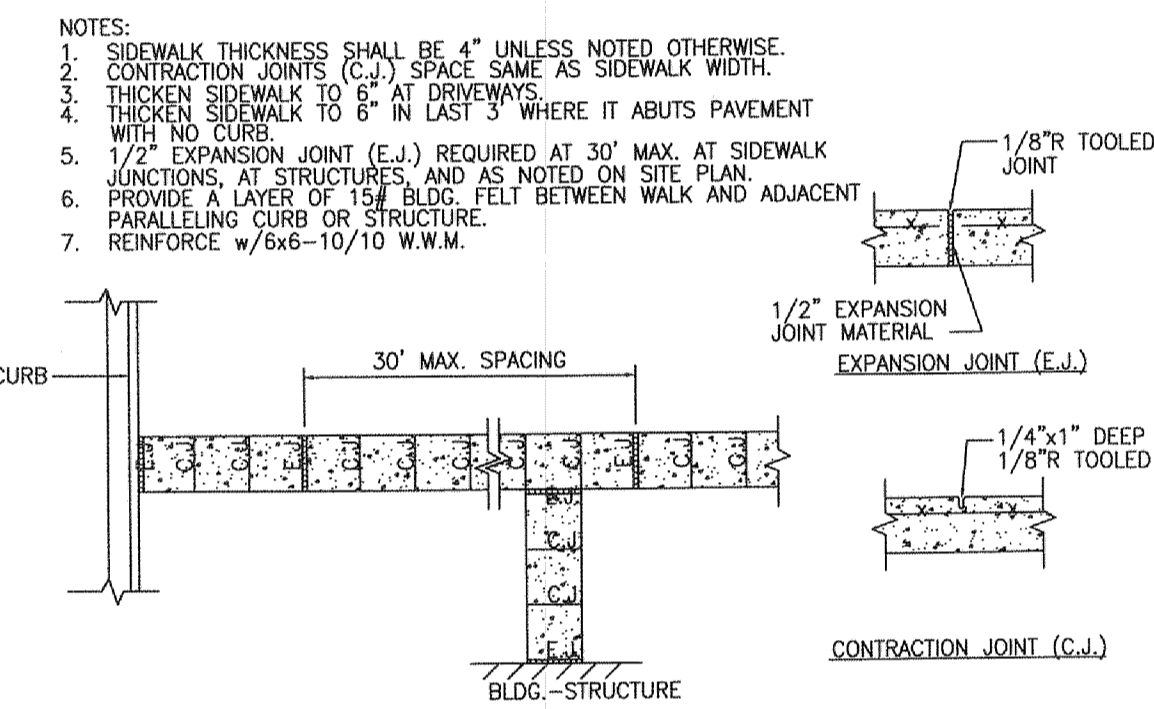


HARDWARE CLOTH & GRAVEL INLET PROTECTION

NTS

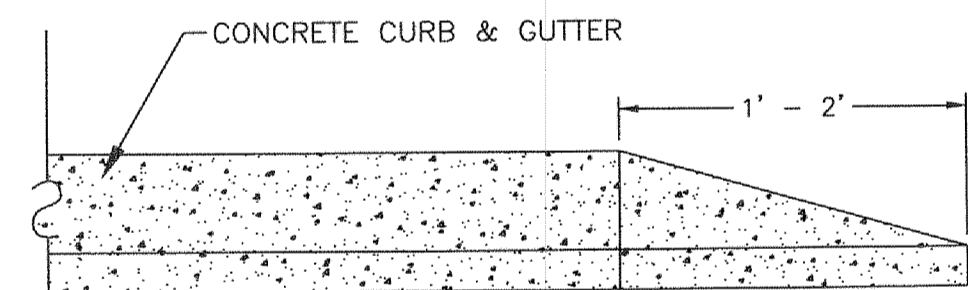
- CONSTRUCTION SEQUENCE:
1. UNIFORMLY GRADE A SHALLOW DEPRESSION APPROACHING THE INLET.
 2. DRIVE 5" STEEL POST 2' INTO THE GROUND SURROUNDING THE INLET. SPACE POSTS EVENLY AROUND THE PERIMETER OF THE INLET, A MAXIMUM OF 4' APART.
 3. SURROUND THE POST WITH WIRE MESH HARDWARE CLOTH. SECURE THE WIRE MESH 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 (NC DOT #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 GROUND COVER.

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.



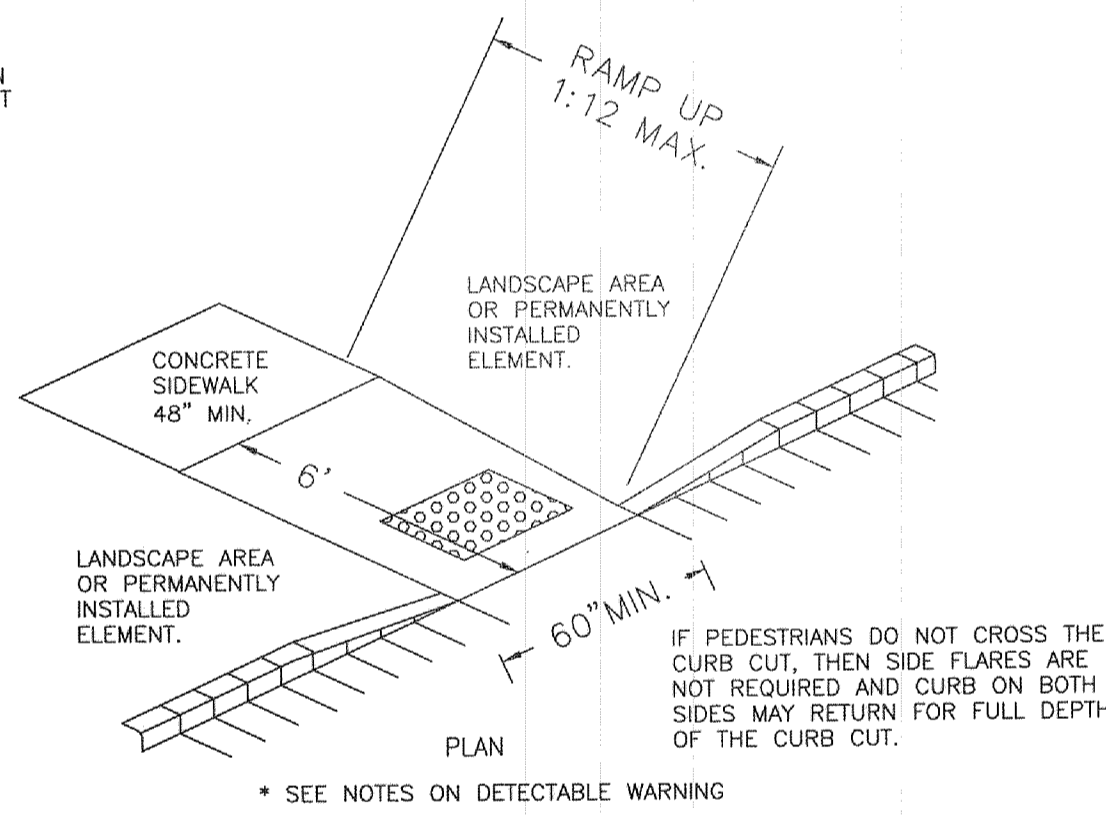
SIDEWALK JOINT DETAILS

NTS



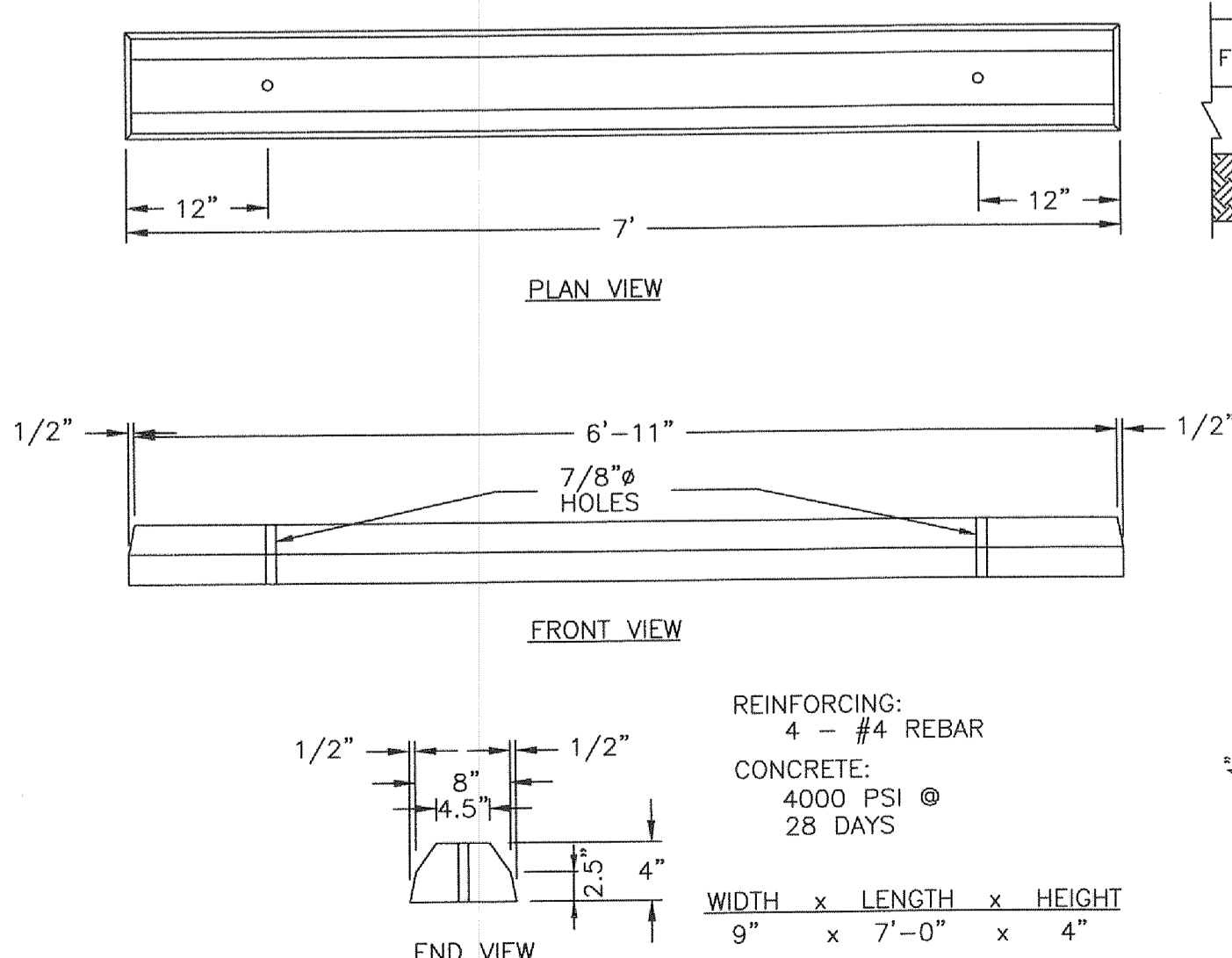
CURB END DETAIL

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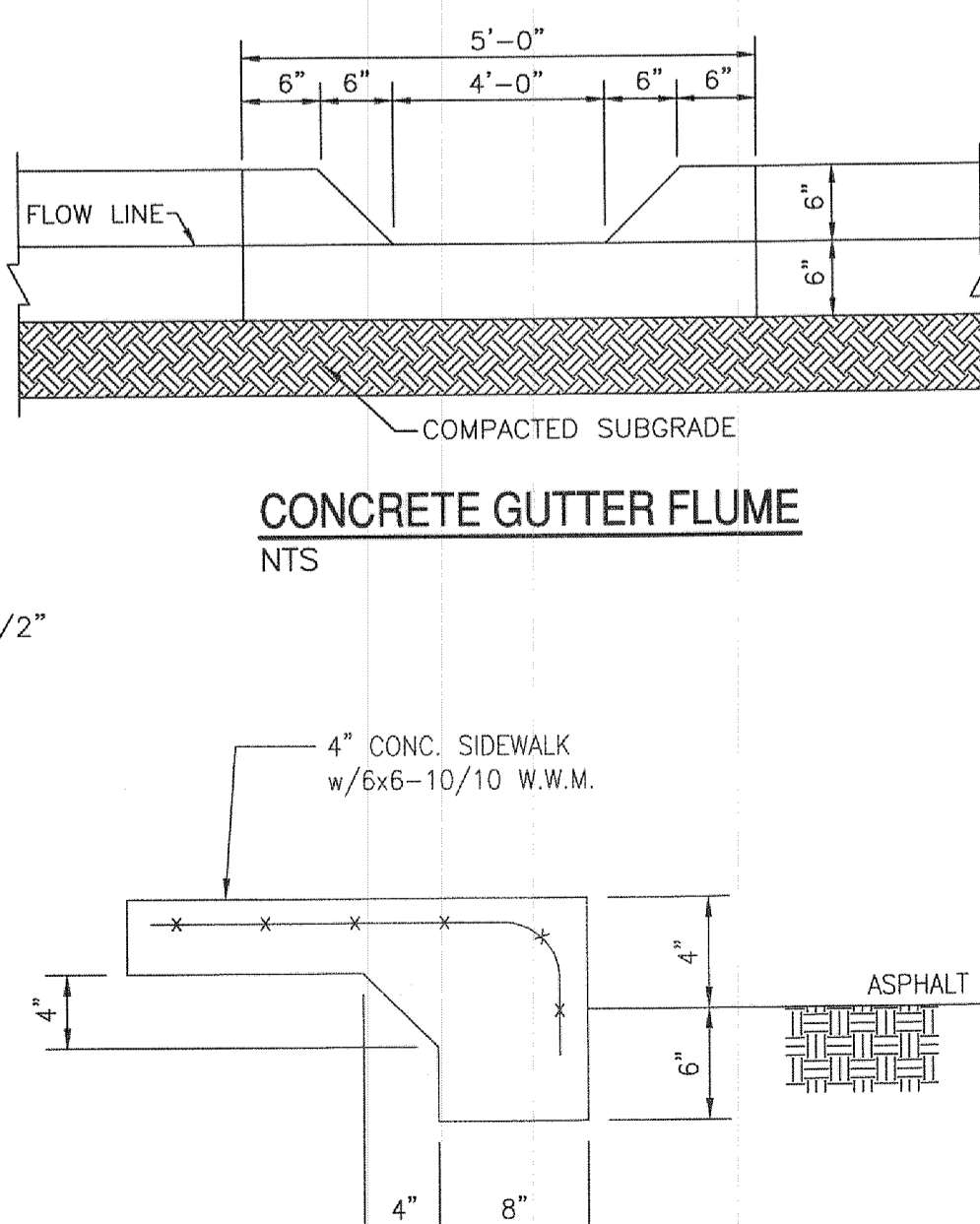
SIDEWALK, CURB CUT AND WHEEL CHAIR RAMP DETAIL

NTS



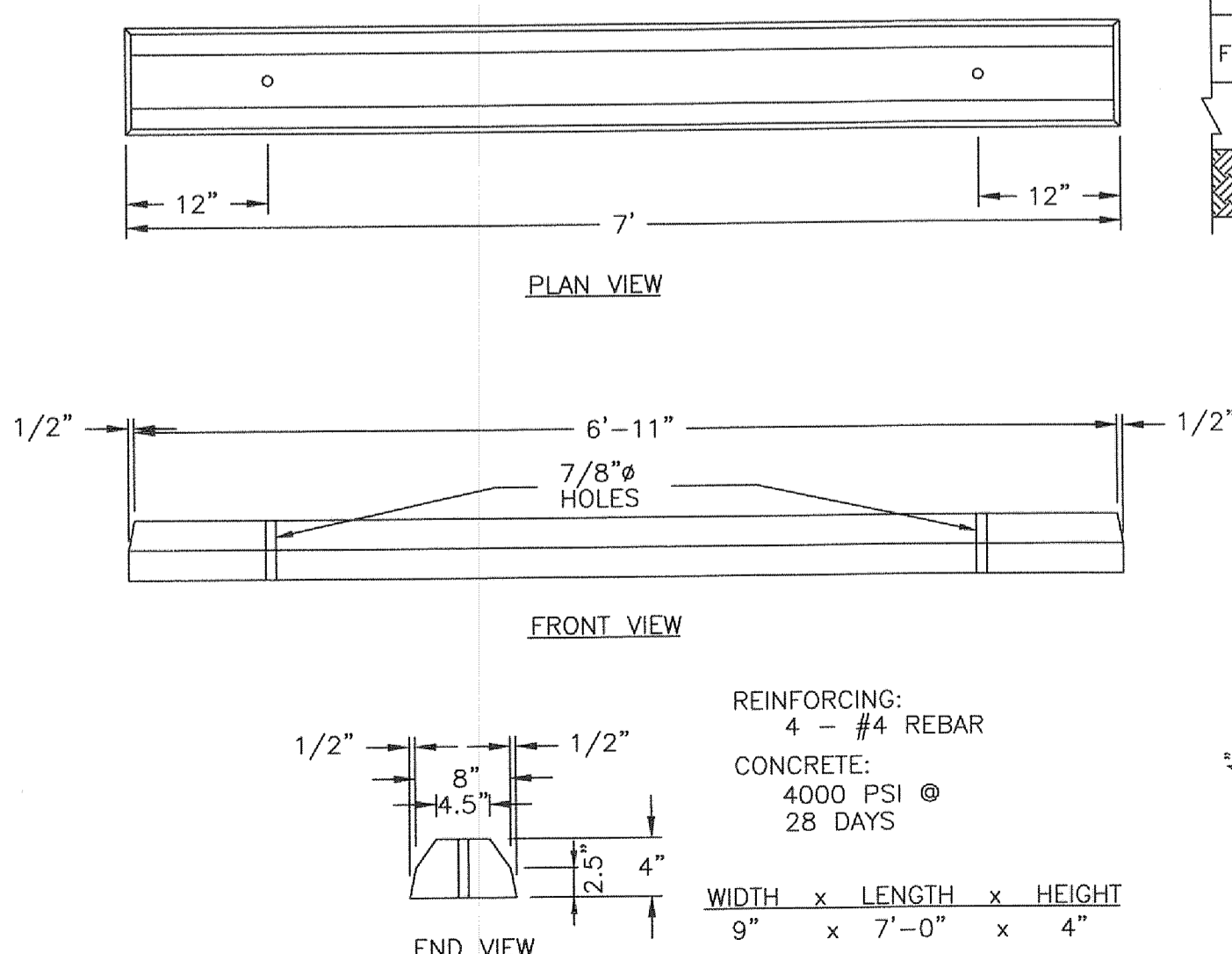
WHEEL STOP DETAIL

NTS



TURN DOWN SIDEWALK

NTS



CONCRETE GUTTER FLUME

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. CONTINUED 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 SEEDED 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 RATE.
 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% BERMUJA GRASS
 - 20% TURF FESCUE 10% CREEPING RED FESCUE
 - 24% ANNUAL RYE GRASS
- *BERMUJA 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 (HOW) 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 HOW ZONES

TEMPORARY SEEDING RECOMMENDATIONS FOR FALL

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

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

SOIL AMENDMENTS: 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

SPECIES	SEEDING MIXTURE RATE (lb/acre)
RYE (GRAIN)	120
ANNUAL LESPEDEZA (KOBE IN PIEDMONT AND COASTAL PLAIN, KOREAN IN MOUNTAINS)	50

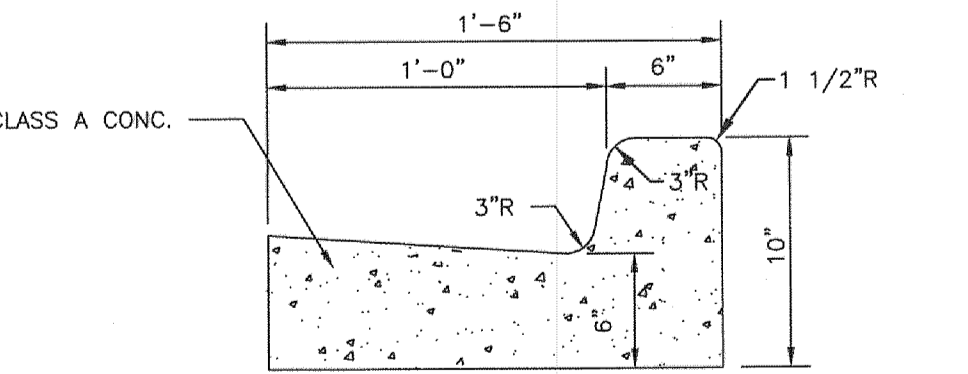
OMIT ANNUAL LESPEDEZA WHEN DURATION OF TEMPORARY COVER IS NOT TO EXTEND BEYOND JUNE.

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

NTS

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 N&T. 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 NC DOT 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 SELECT-FILL COMPACTED AS SPECIFIED.
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 DESIGNED TO RECEIVE FILL SHOULD BE PROFFEROLLED, THE TOP 8" OF SUBGRADE SHALL BE COMPACTED TO AT LEAST 98% OF MAXIMUM DENSITY AT OPTIMUM MOISTURE CONTENT. ANY AREA WHICH PUMPS OR RUTS 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. IN AREAS WHERE NO STRUCTURAL FILL IS TO BE PLACED THE UPPER 12 INCHES OF SUBGRADE SHOULD BE COMPACTED TO AT LEAST 98% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY. IF THE MATERIAL IS TOO DRY TO COMPACT TO THE REQUIRED DENSITY EACH LAYER SHALL BE WETTED IN ACCORDANCE WITH COMPACTION REQUIREMENTS. 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 NC DOT 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 TT-P-115, TYPE III, FACTORY MIXED, QUICK DRYING, NON-BLEEDING.
20. REFER TO THE PLUMBING DRAWINGS FOR LOCATION AND INVERTS OF NEW WASTE AND WATER LINES.

BY	DATE	DESCRIPTION	REVISIONS

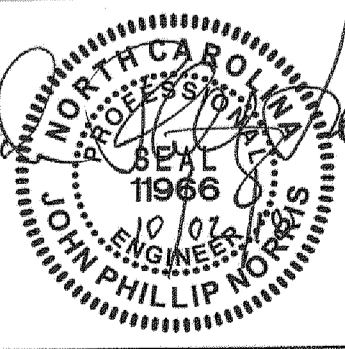
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DETAILS
DOLLAR GENERAL - PINE GROVE
810 PINE GROVE DRIVE
NEW HANOVER COUNTY, NORTH CAROLINA

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.
 902 MARKET STREET
 WILMINGTON, NC 28401
 PHONE (910) 343-9653
 1429 ASH-LITTLE RIVER RD. NW
 ASH, NC 28420
 PHONE (910) 287-5900

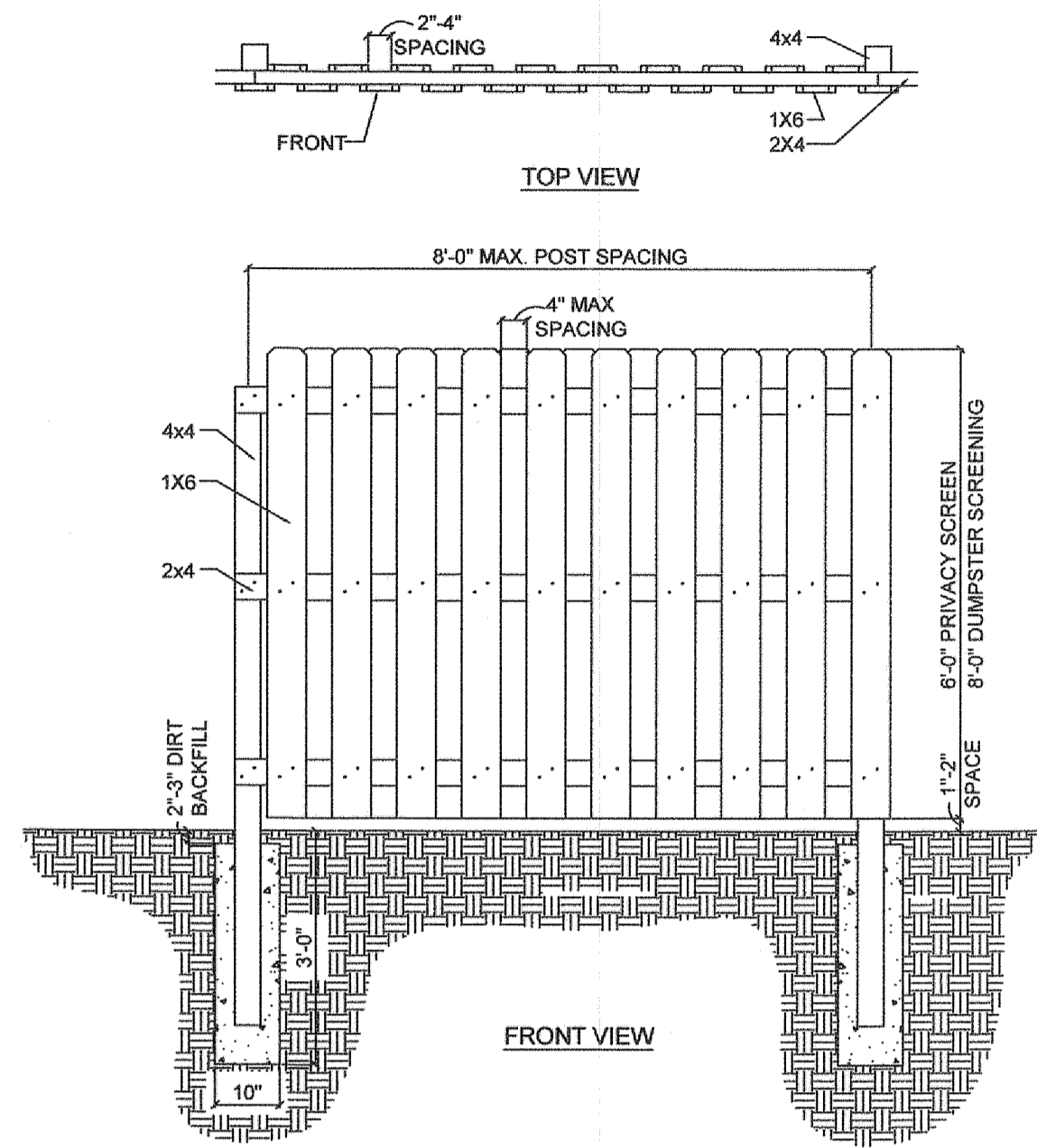
Licence #C-3641
17145
 DES. JPN
 CRD. JPN
 DRWN. EDB
 DATE 10/02/18



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

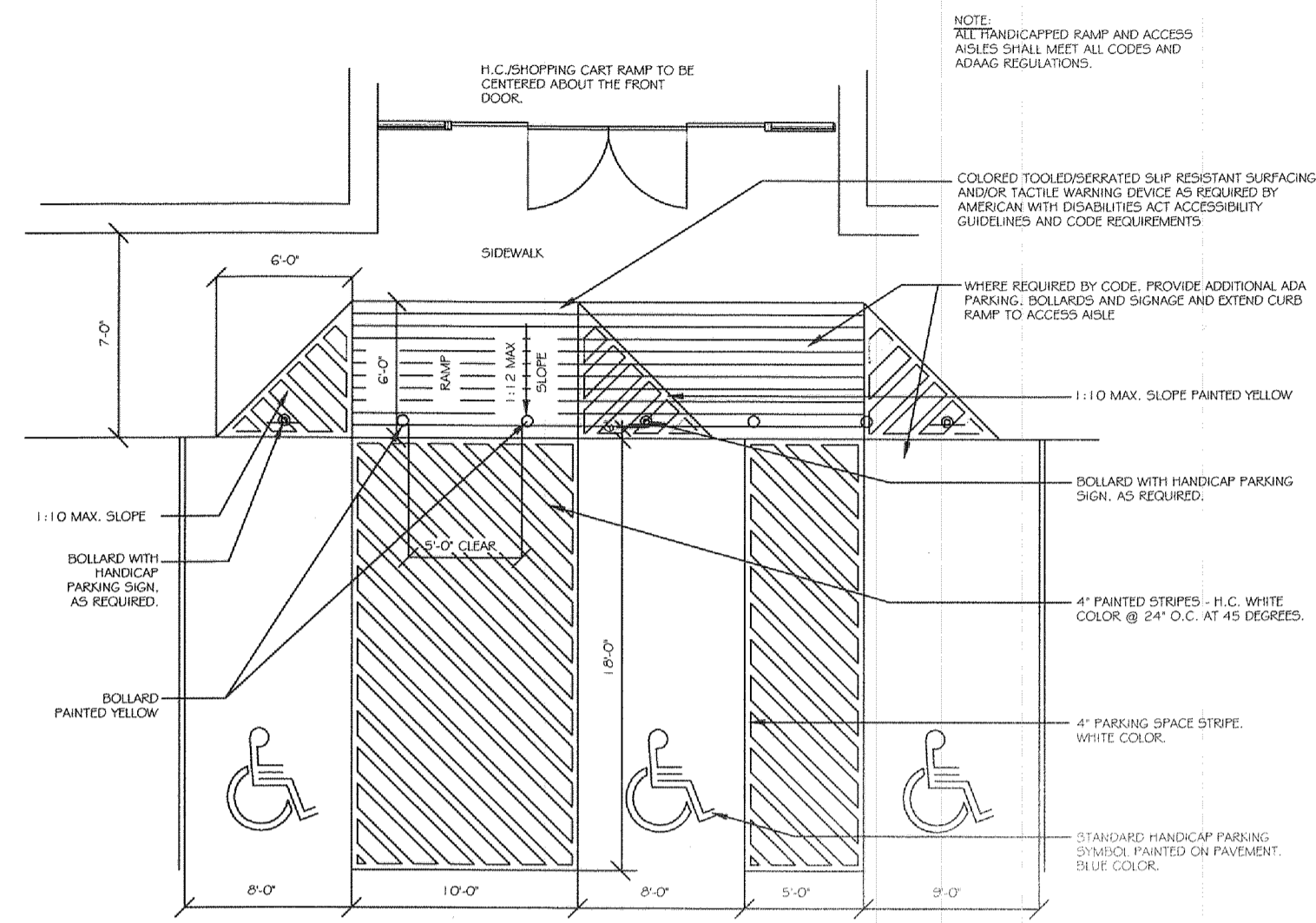
Approved Construction Plan
 Name _____ Date _____
 Planning _____
 Traffic _____
 Fire _____



FENCE DETAIL
NTS

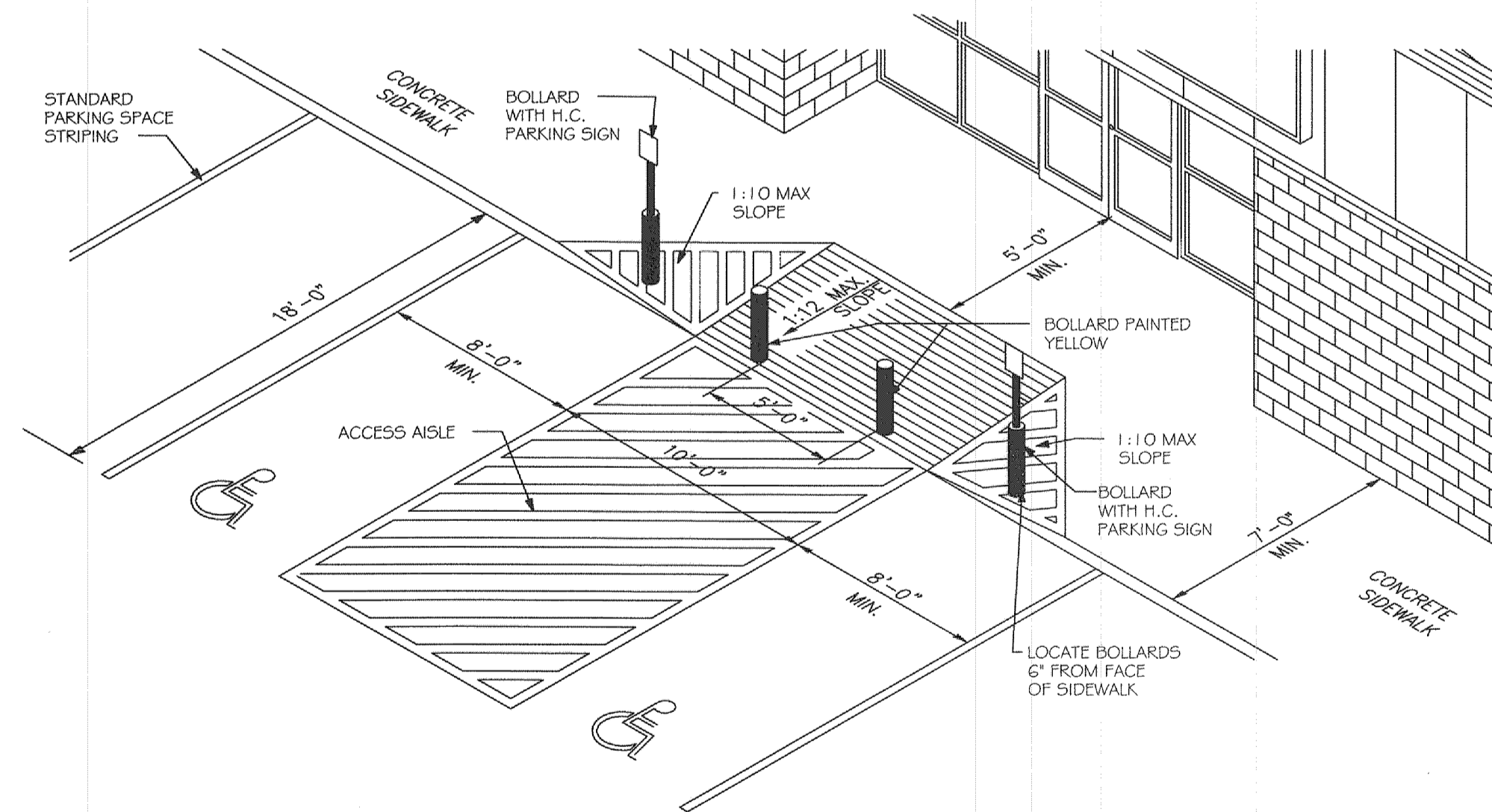
IF AN UNOBSTRUCTED VIEW EXISTS OF A RESIDENTIAL BUILDING BETWEEN TENANT PARCEL AND ADJACENT PARCEL, THEN LESSOR SHALL CONSTRUCT A PRIVACY FENCE IN ACCORDANCE WITH TENANT'S PROTOTYPE CRITERIA SET PLANS AND ANY APPLICABLE GOVERNMENTAL REQUIREMENTS.

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

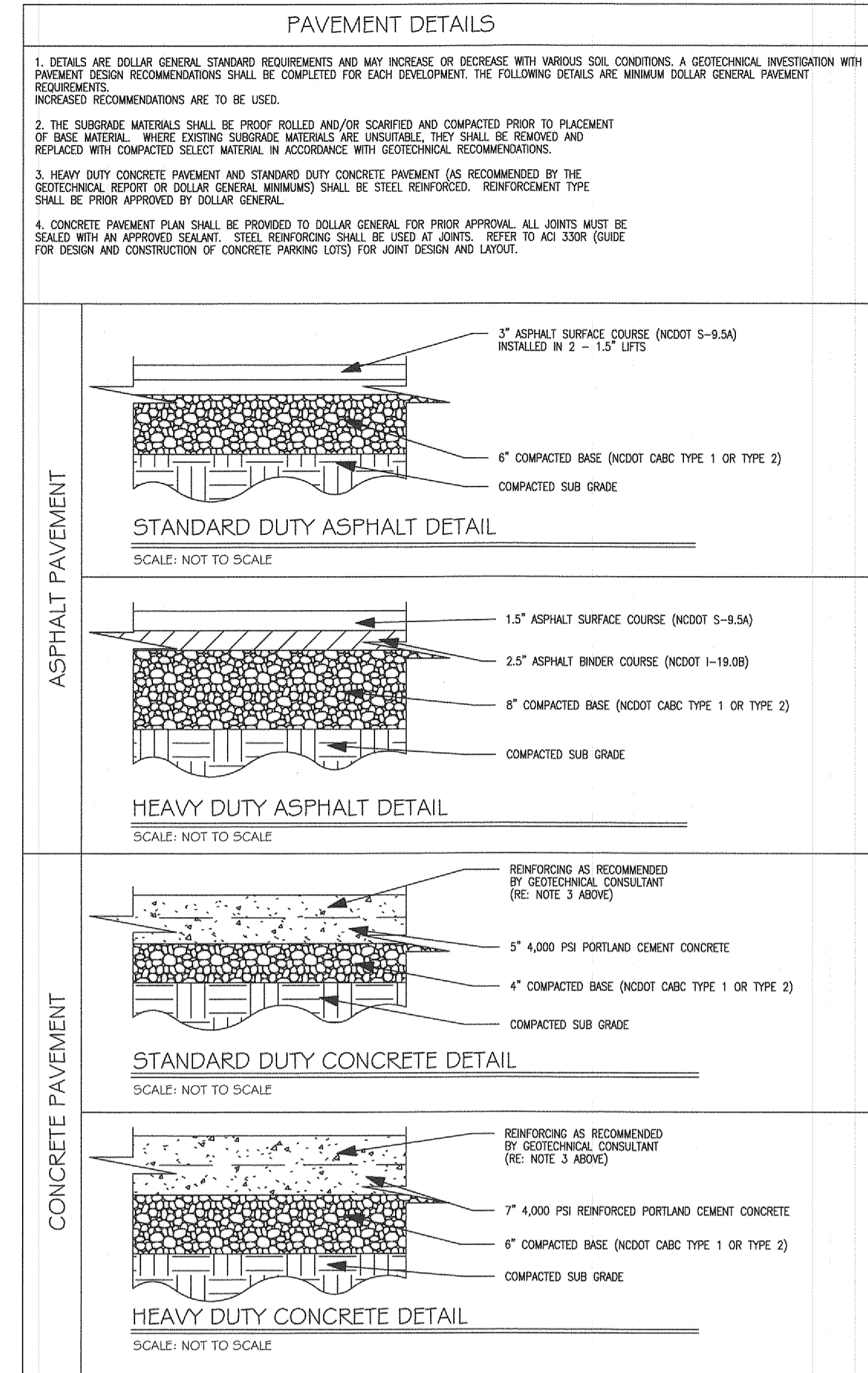


HANDICAP PARKING DETAIL
NTS

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.

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@thetconcompanies.com

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

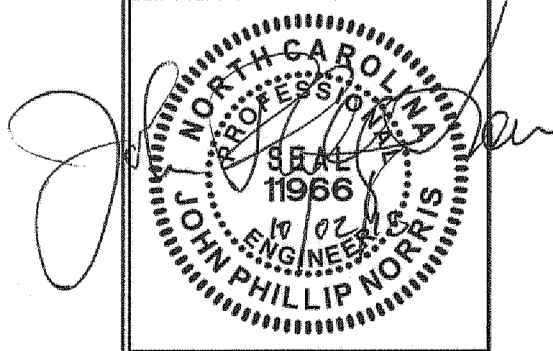
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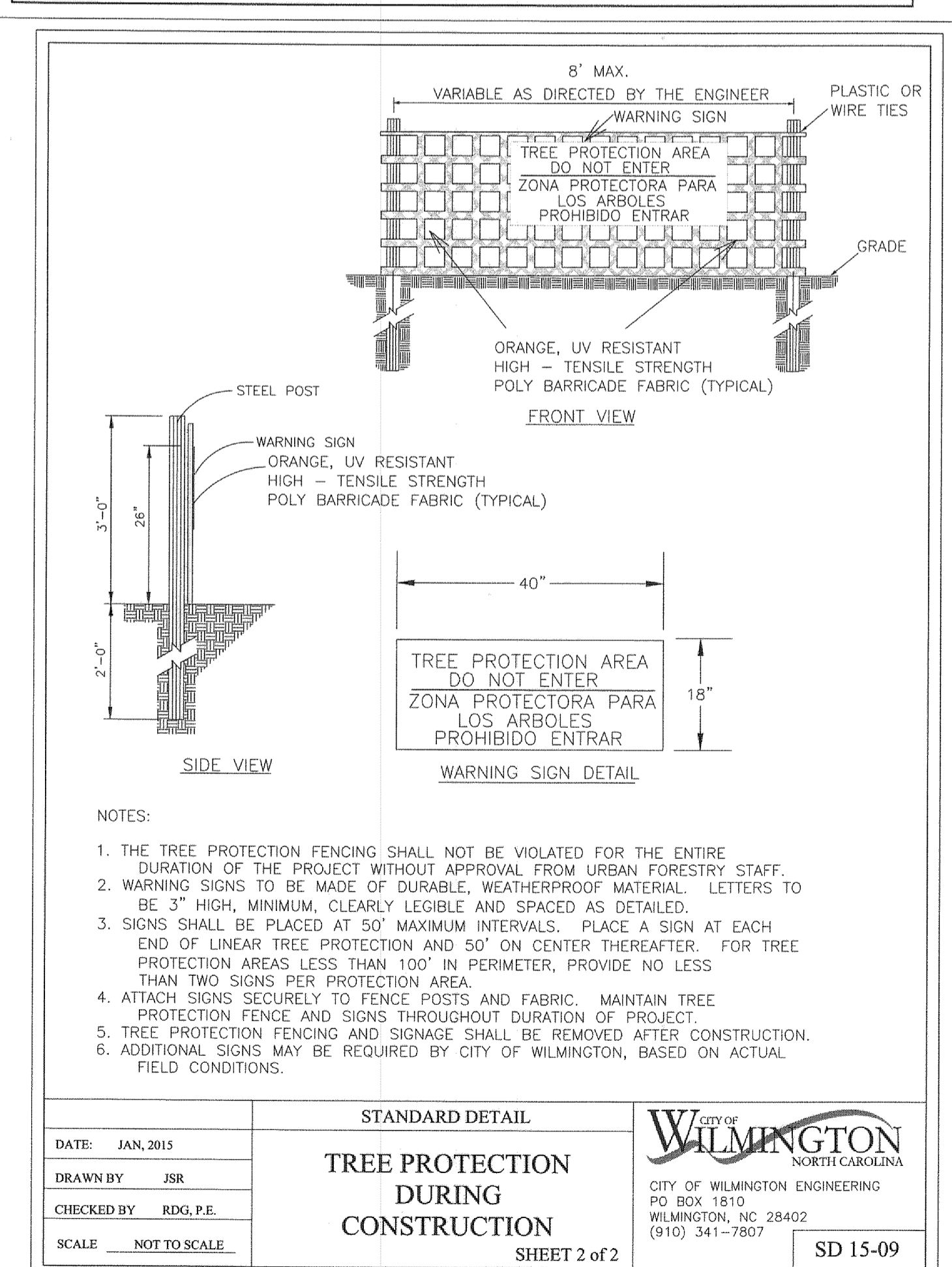
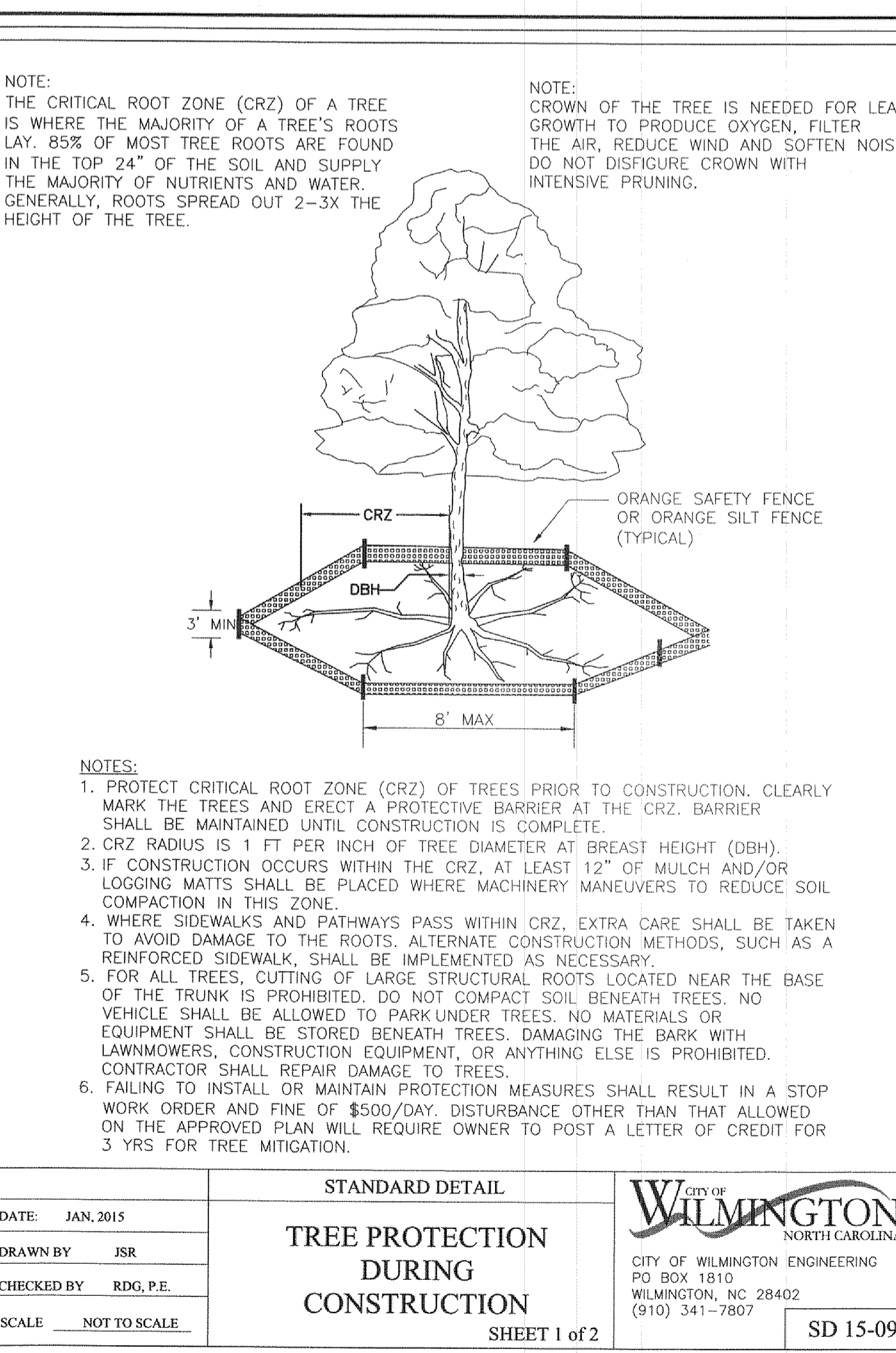
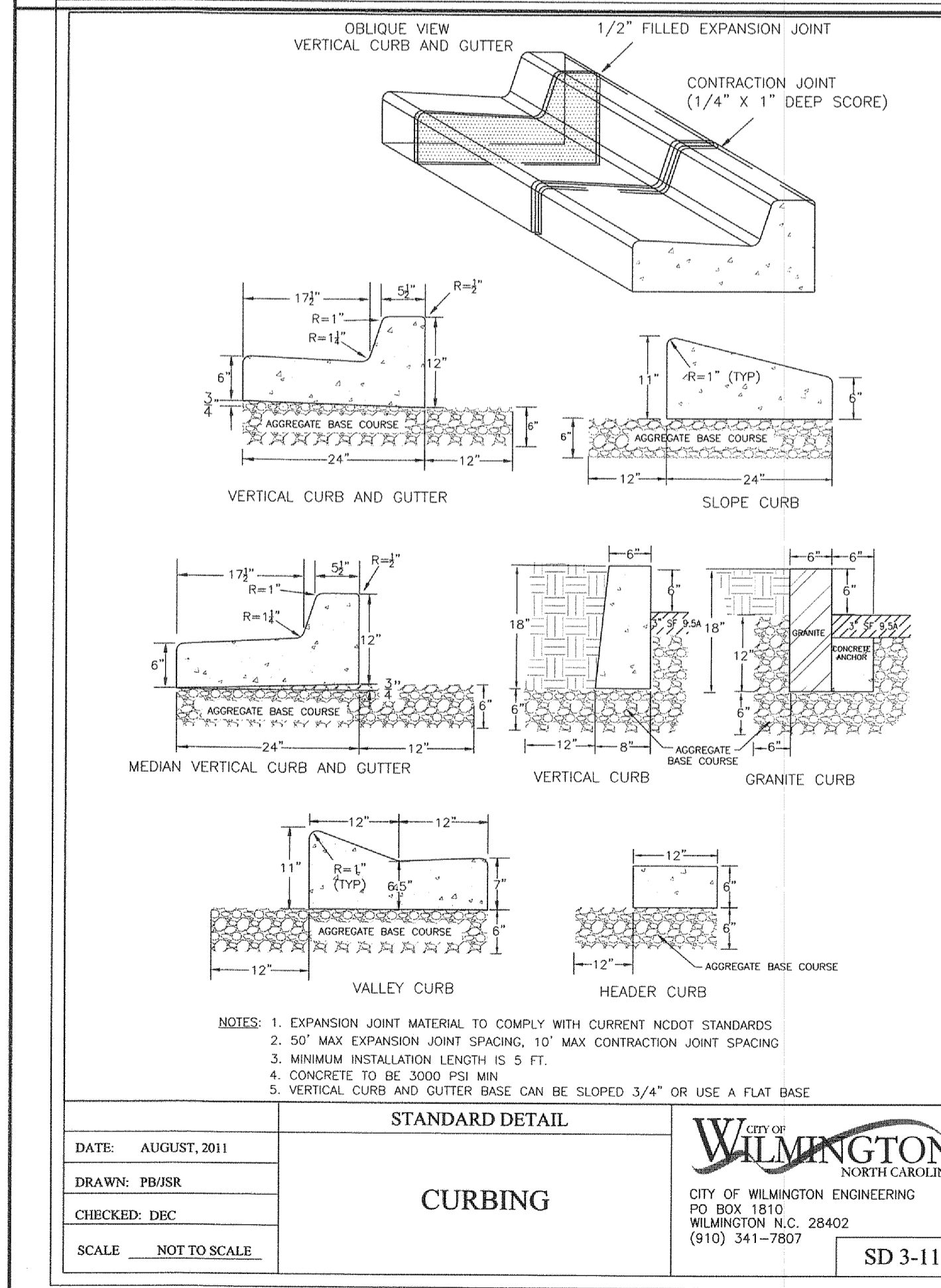
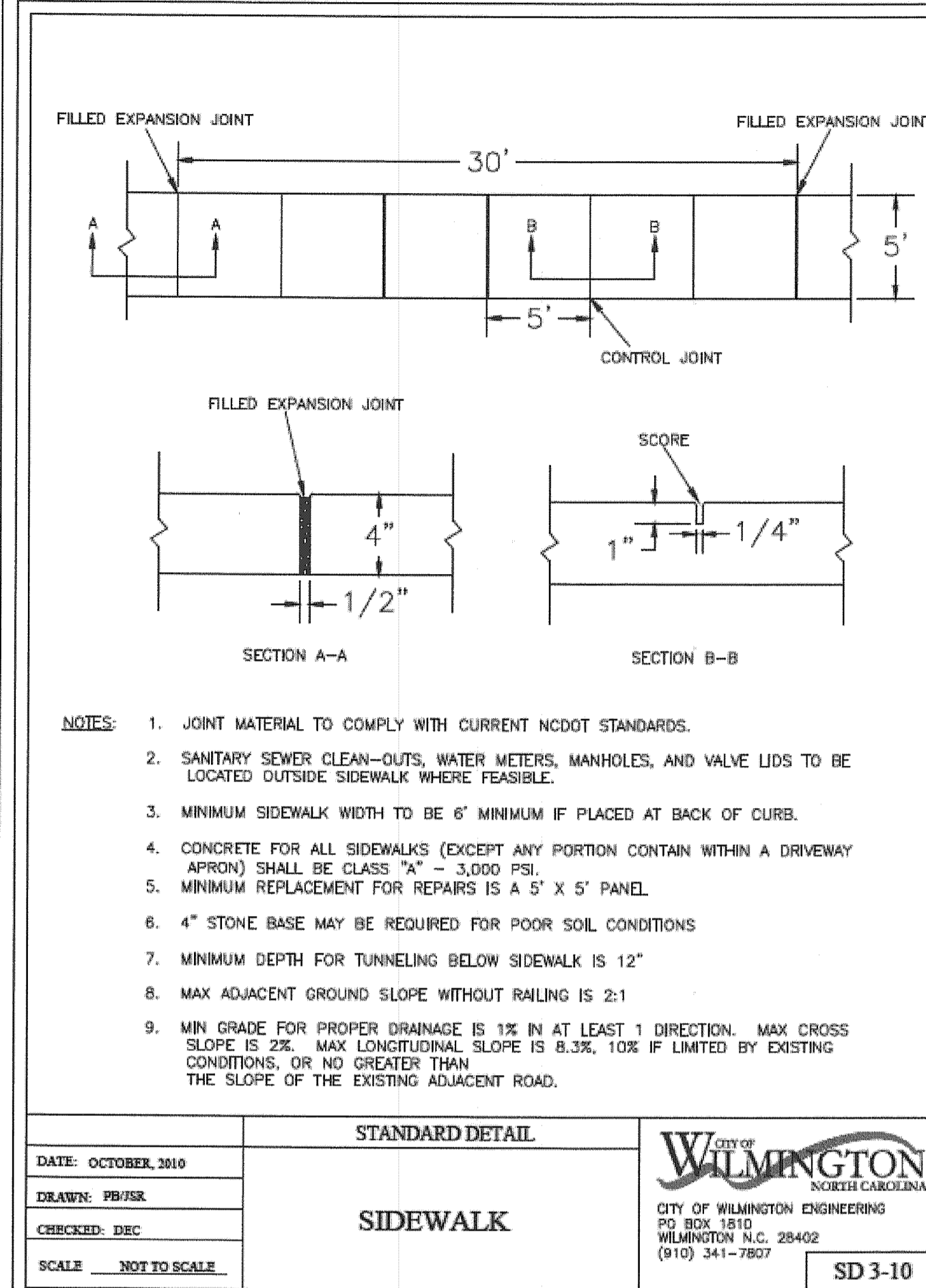
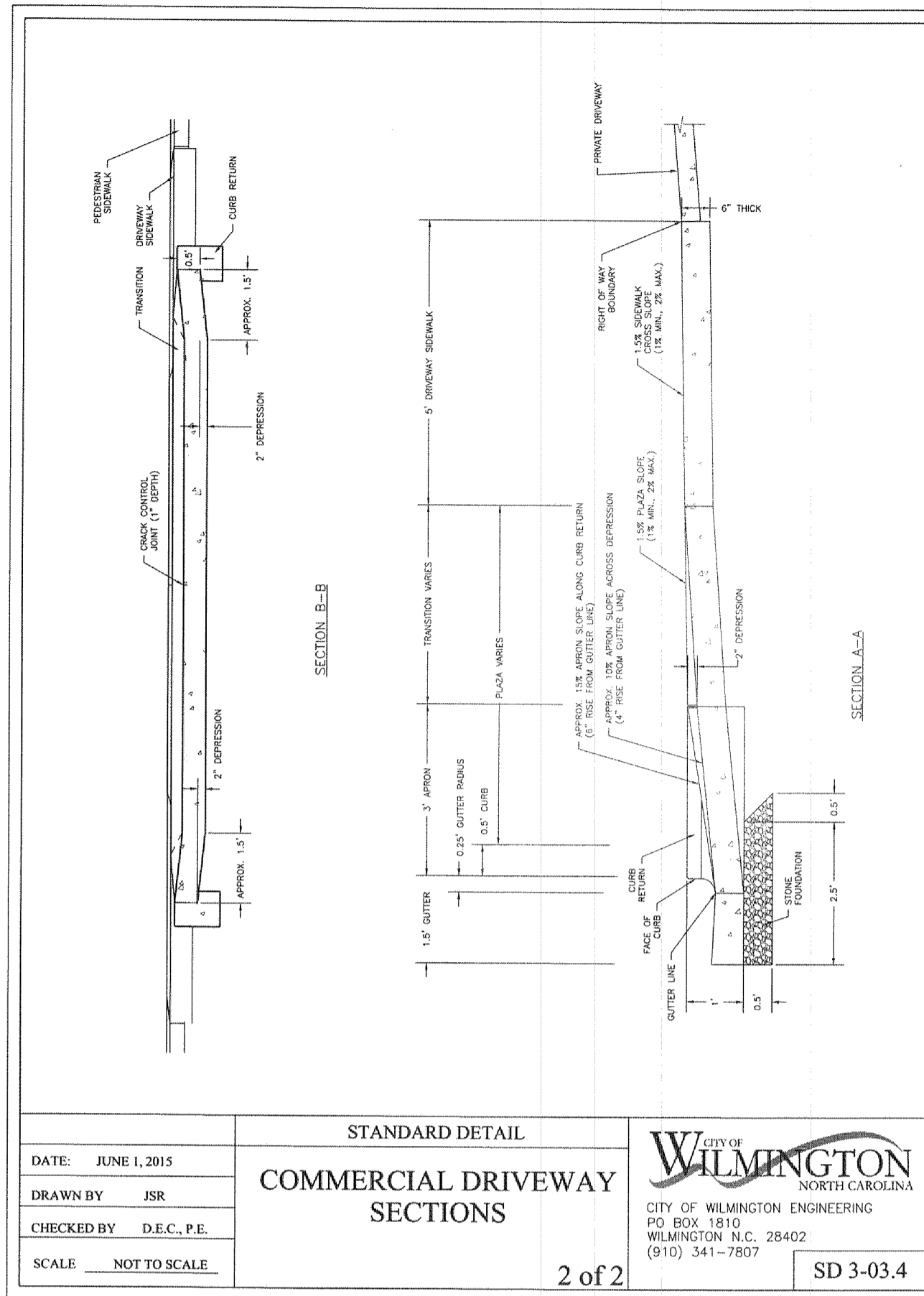
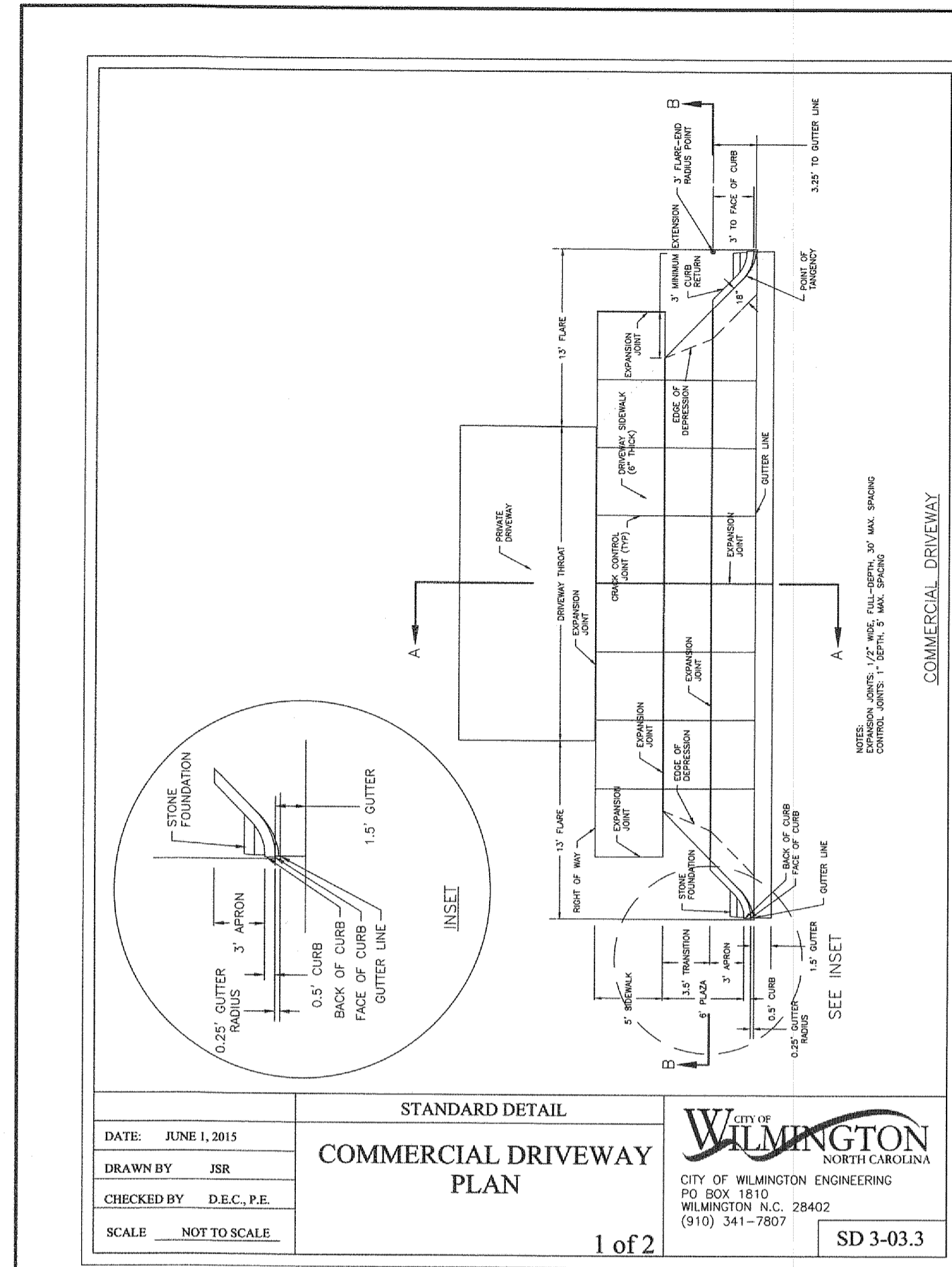
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CITY OF WILMINGTON
NORTH CAROLINA
Public Services • Engineering Division
APPROVED STORMWATER MANAGEMENT PLAN
Date: _____ Permit # _____
Signed: _____

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



C6



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		REVISIONS	

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

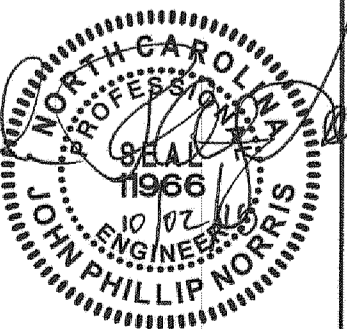
OWNER:
 PAR 5 DEVELOPMENT, LLC
 2860-B NC HWY 5
 ABERDEEN, NC 28315
 (P) 910-944-0881
 lee@thetsoncompanies.com

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

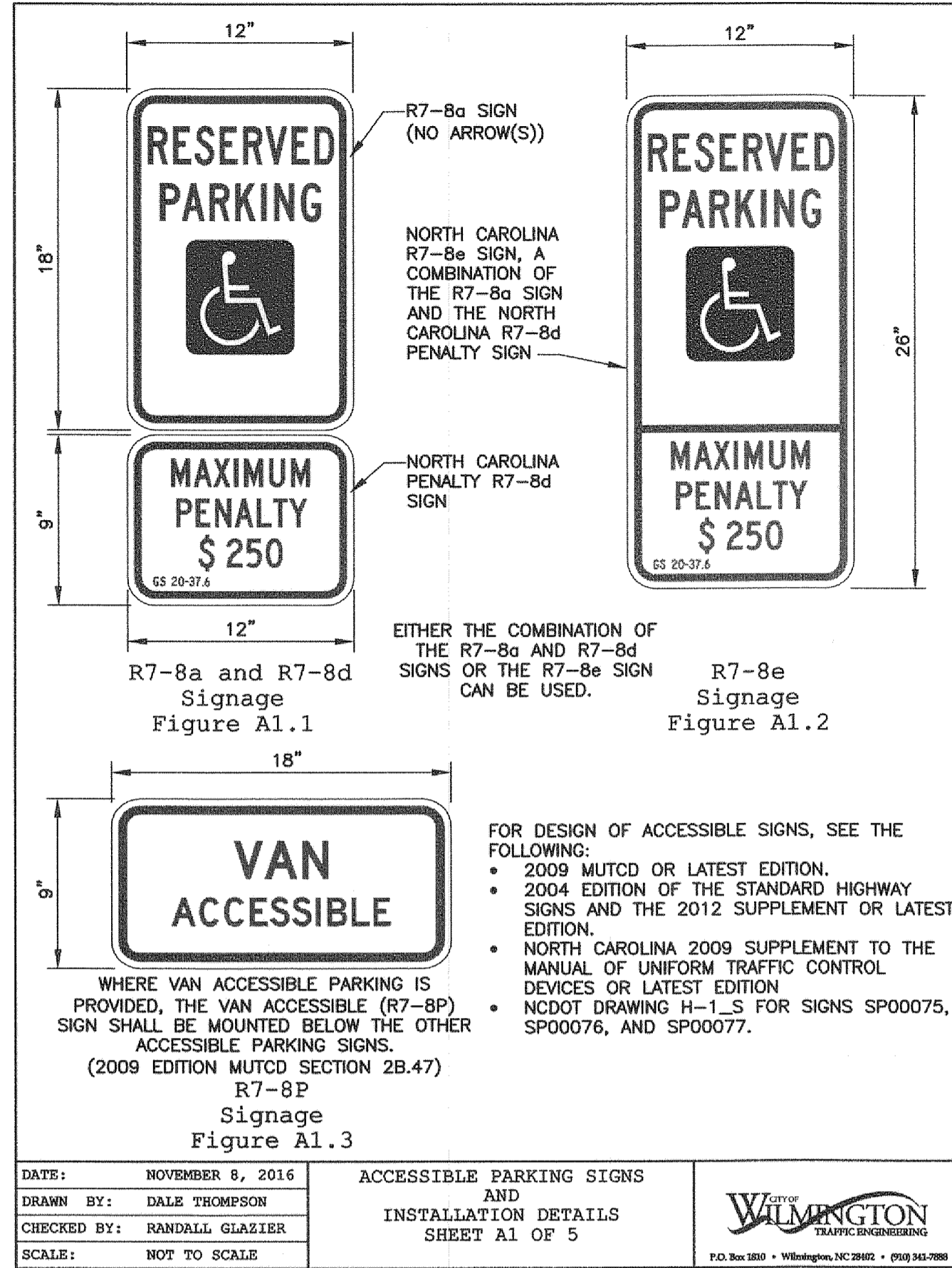
CITY OF WILMINGTON NORTH CAROLINA
 Public Services • Engineering Division
APPROVED STORMWATER MANAGEMENT PLAN
 Date: _____ Permit # _____
 Signed: _____

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

Licence #C-3641
17145
 DES. JPN
 CDD. JPN
 DRWN. EDB
 DATE 10/02/18



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.

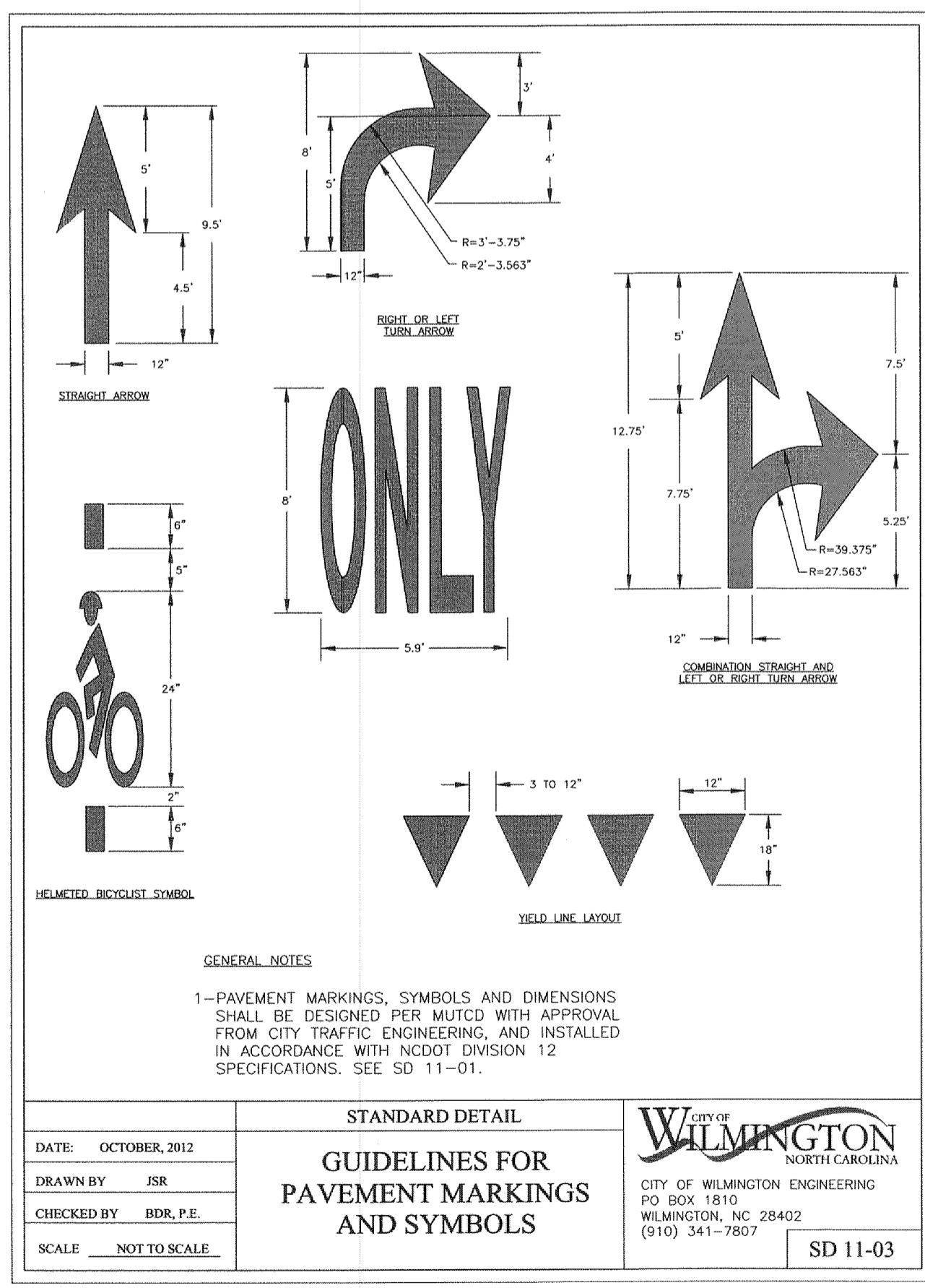
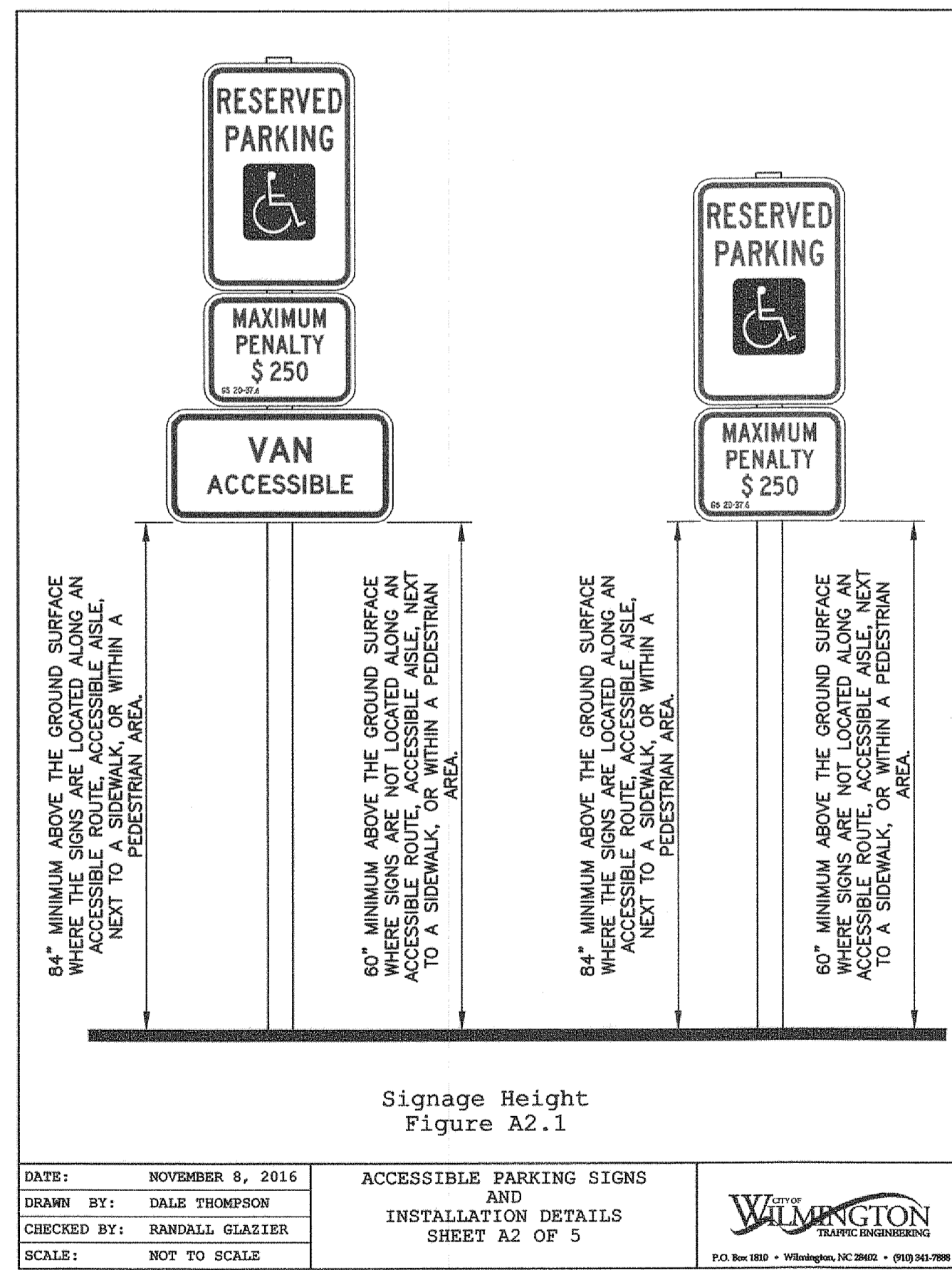
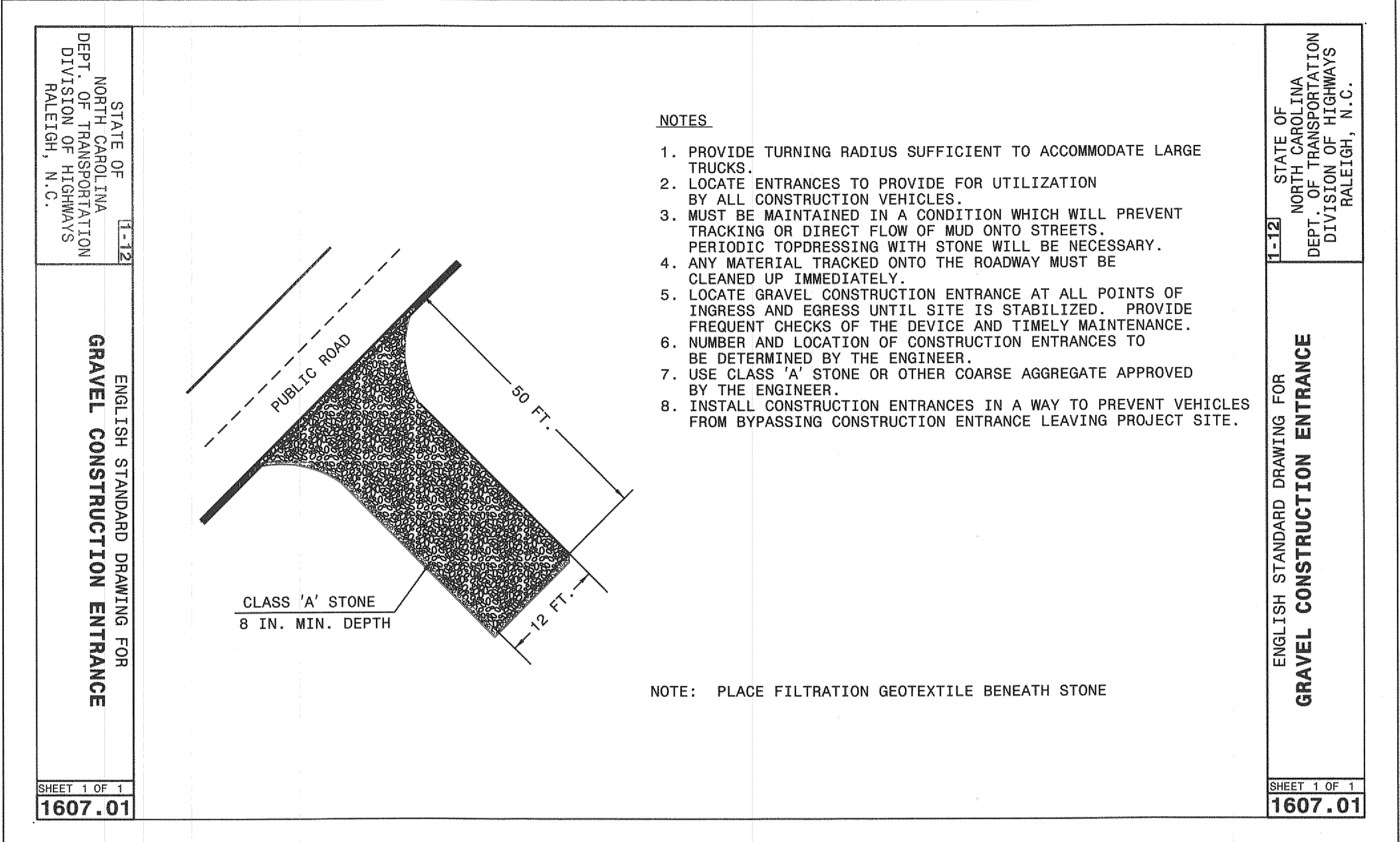
9. Parking in fire lanes and in non-residential driveways shall be prevented by standard signs and as needed by portable barricades.

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



SYMBOL	DATE	DESCRIPTION	BY
		REVISIONS	

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

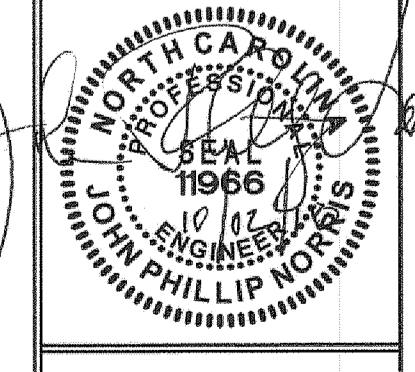
OWNER:
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2660 R NC HWY 5
ABERDEEN, NC 28315
(719) 910-944-0881
lee@thetsoncompanies.com

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CONSULTING ENGINEERS P.C.
1429 ASHLITTLE RIVER RD, NW
ASHLEY, NC 28400
PHONE (910) 287-5900

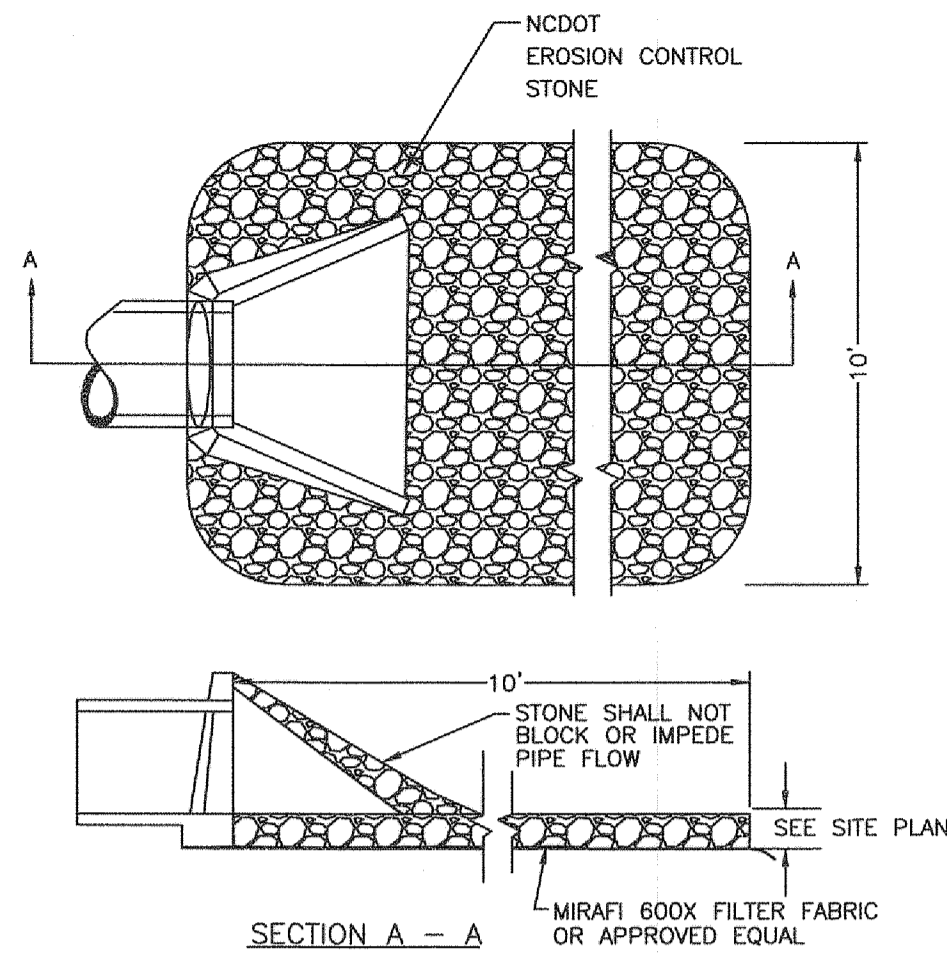
License #C-3641
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CKD. JPN
DRWN. EDB
DATE 10/02/18

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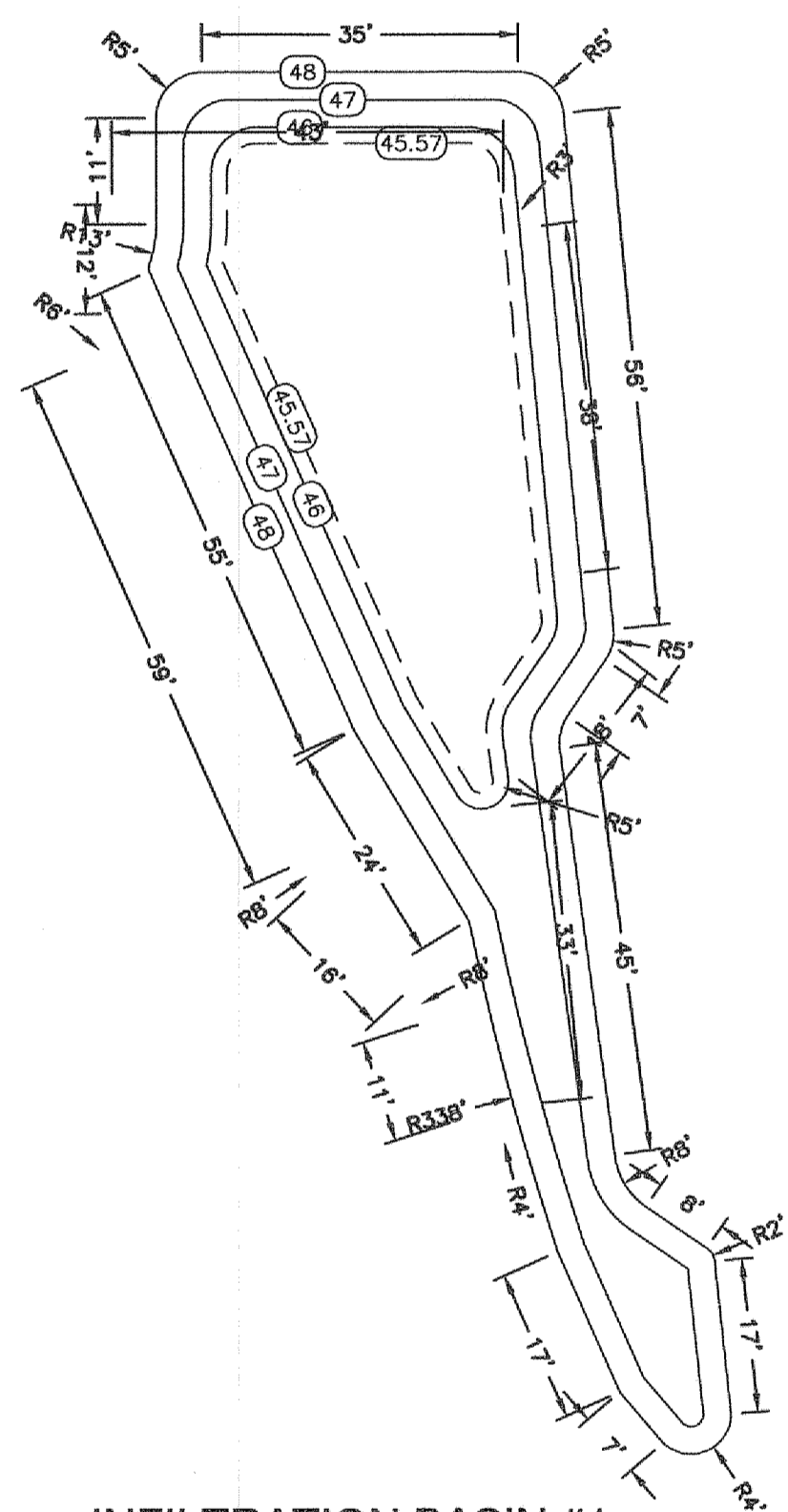


C8

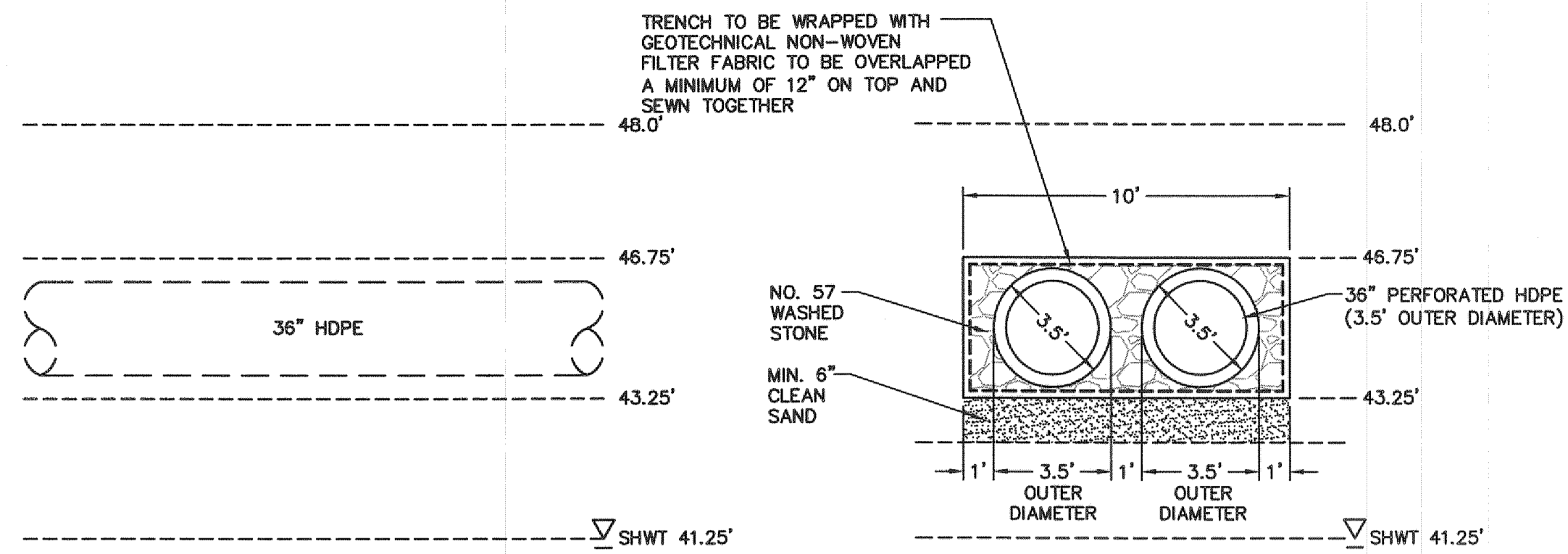


NOTE: FILTER FABRIC AND STONE SHALL BE TOED UNDER FLARED END SECTION

ENERGY DISSIPATOR
NTS



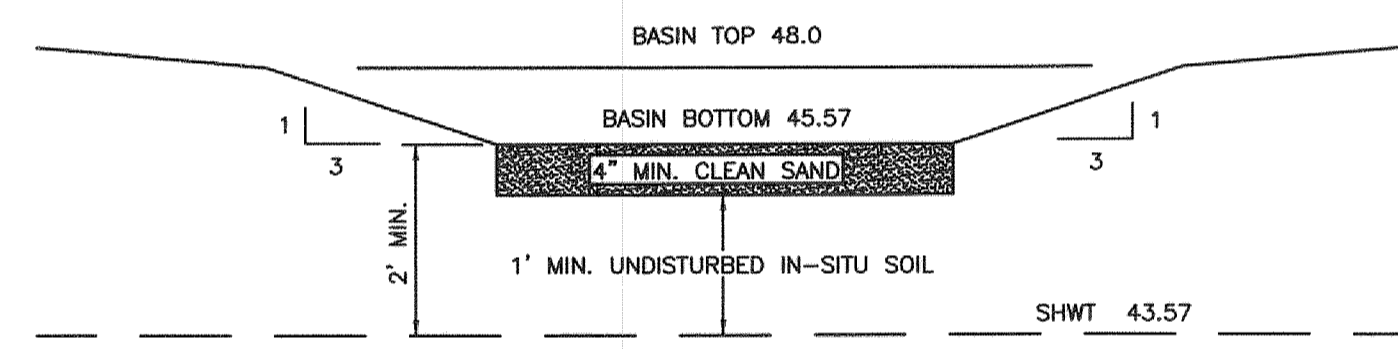
NOTE: ONCE THE SITE IS STABLE, ALL ACCUMULATED SEDIMENT SHALL BE REMOVED FROM THE INFILTRATION BASIN, AND THE BASIN SHALL BE RESTORED TO ITS DESIGN SPECIFICATIONS. BASIN SIDE SLOPES SHALL BE STABILIZED WITH SOD OR MATTING AND FEED.



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

INFILTRATION BASIN #1

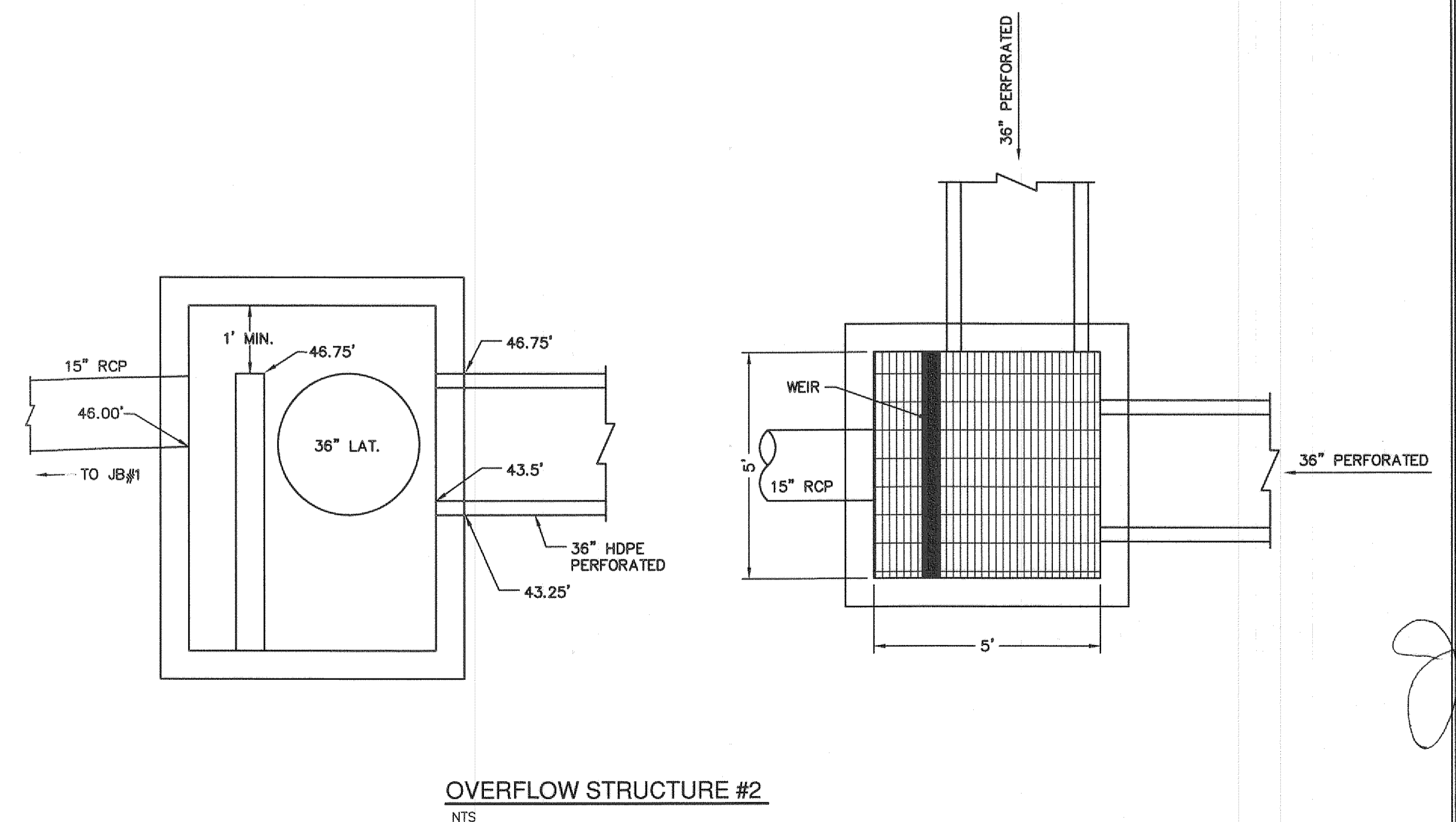
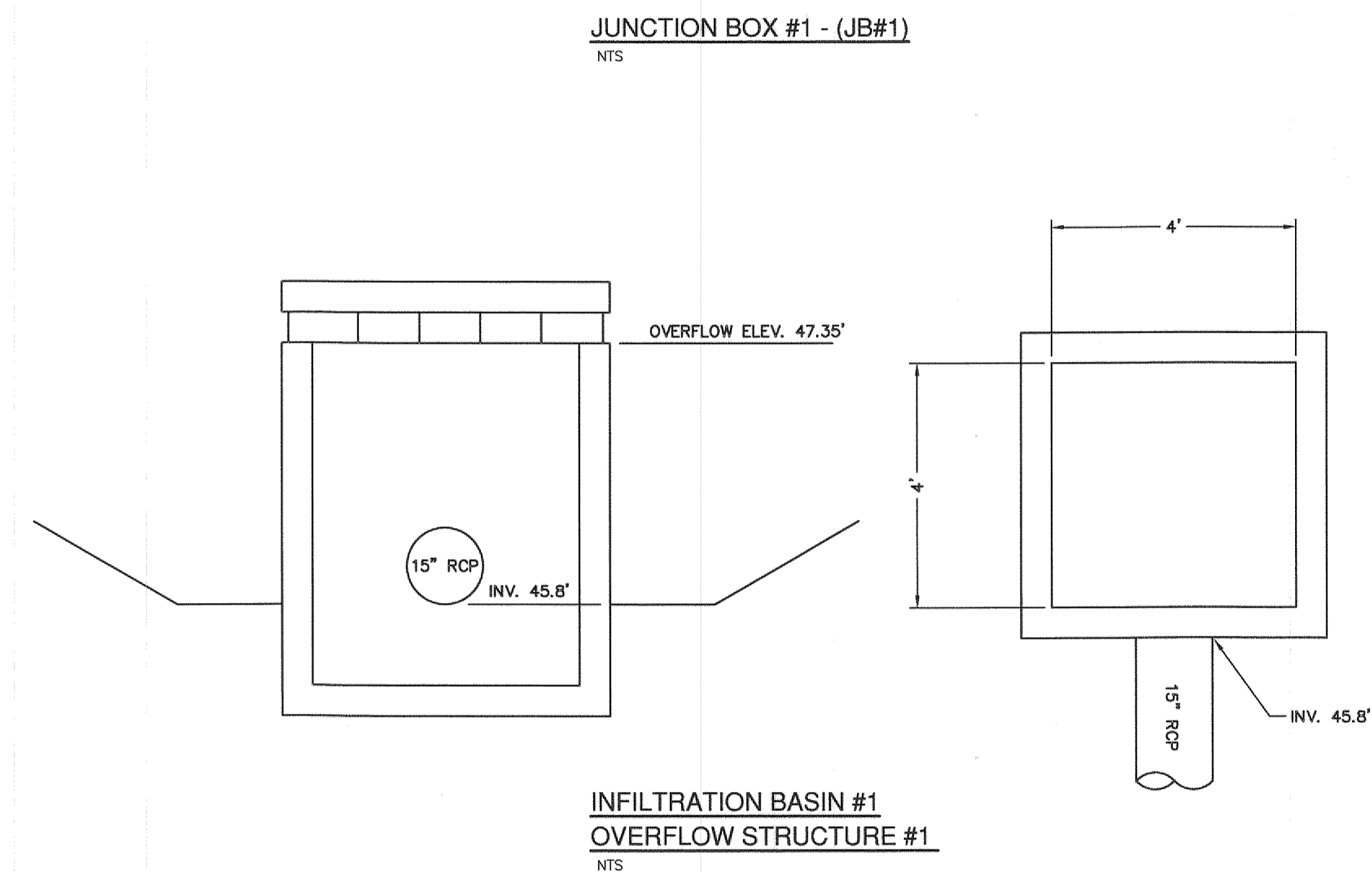
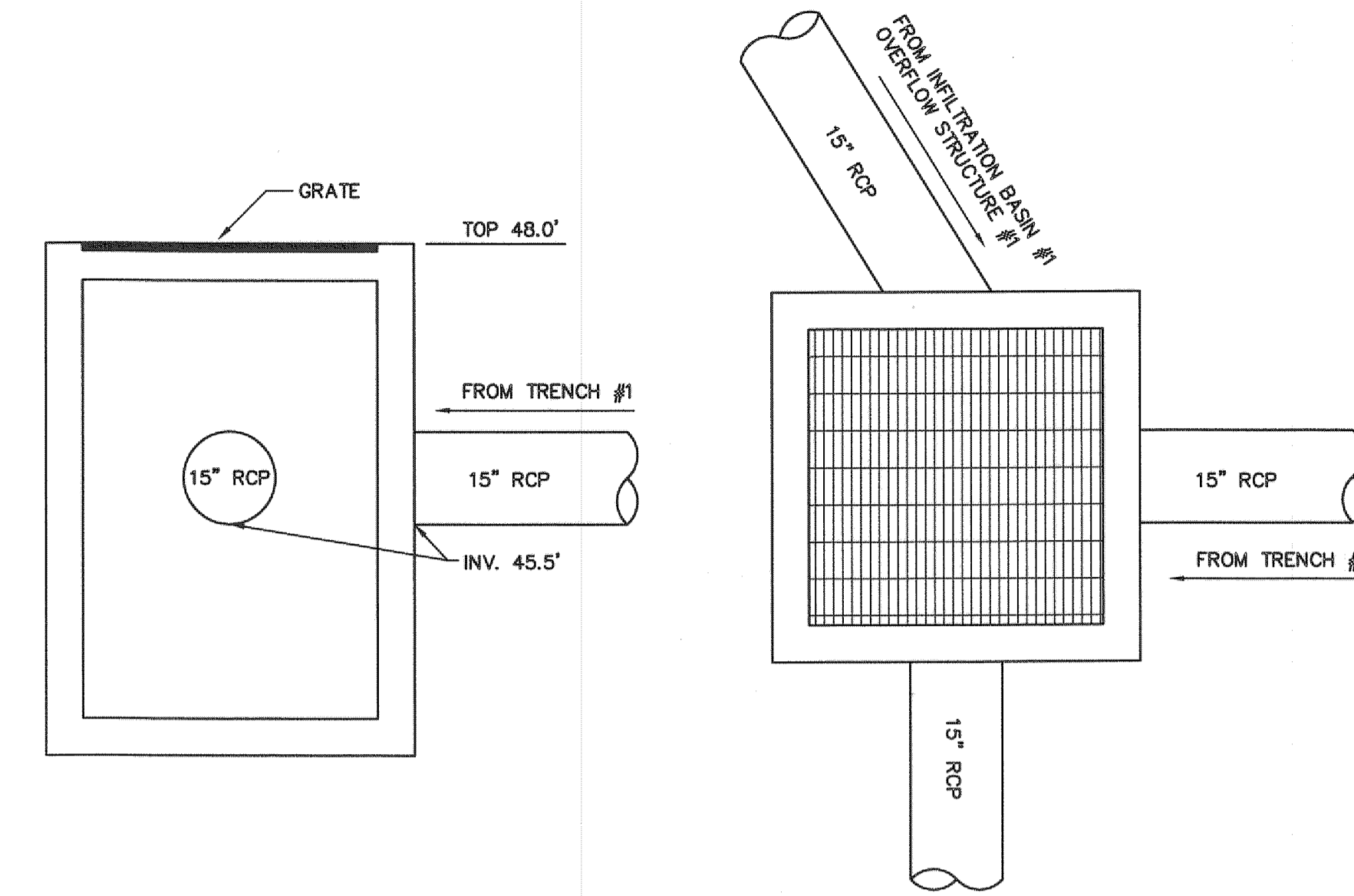
ELEV:	SA:	SHWT @	46.57
48.0	3,890 SF	i=	10.3 in/hr
47.0	2,810 SF		
46.0	1,803 SF		
45.57	1,490 SF		



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SYMBOL	DATE	DESCRIPTION	BY
		REVISIONS	

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810 PINE GROVE DRIVE
NEW HANOVER COUNTY, NORTH CAROLINA

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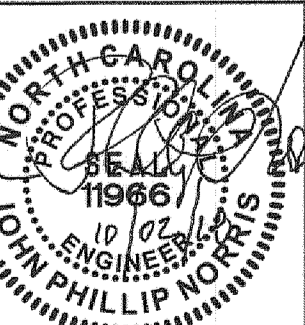
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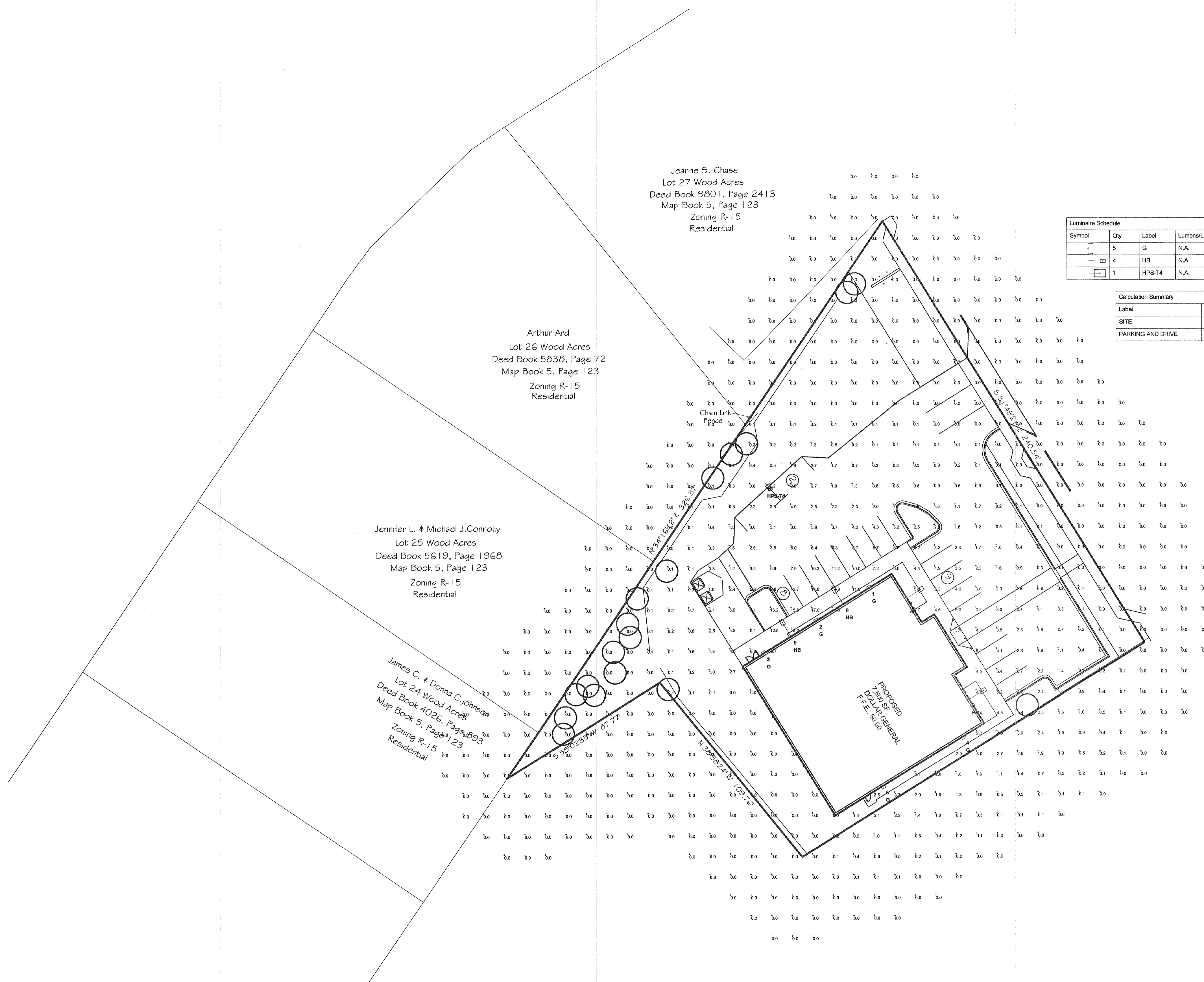
C9

Project:

**DOLLAR
GENERAL
19883
WILMINGTON**

Notes:

- Notes:
1. Calculation at grade.
 2. See Luminaire Location Summary for wall luminaire mounting height.
 3. Arm mnt wall fixtures estimated with 2' rise from mounting.
 4. Based on 15' pole plus 2' AFG base.



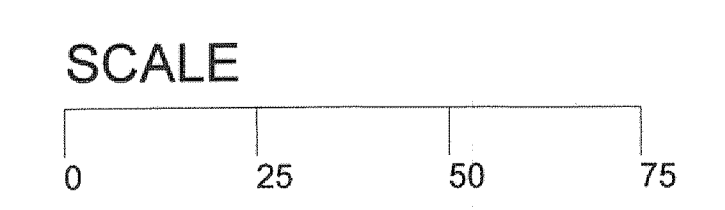
Symbol	Qty	Label	Lumens/Lamp	Arrangement	LLF	Description
[Symbol]	5	G	N.A.	SINGLE	0.900	LHSWP-1-C-M-T3-C-ONE BRICK TYPE 3 700MA LED WALL PACK
[Symbol]	4	HB	N.A.	SINGLE	0.900	LSBT-1-C-X-T3-F-ONE BRICK TYPE 3 1400MA LED WALL MNT 42IN UPSWEEP ARM
[Symbol]	1	HPS-T4	N.A.	SINGLE	0.900	LSBT-1-C-X-T4-F-S213-ONE BRICK TYPE 4 1400MA LED WIBACK LVR

Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
SITE	Illuminance	Fc	0.82	17.0	0.0	N.A.	N.A.
PARKING AND DRIVE	Illuminance	Fc	2.67	15.6	0.0	N.A.	N.A.

LumNo	Label	Z	Tilt
1	G	12	0
2	G	12	0
3	G	12	0
4	G	12	0
5	G	12	0
6	HB	18.5	0
7	HB	18.5	0
8	HB	14	0
9	HB	14	0
10	HPS-T4	17	0

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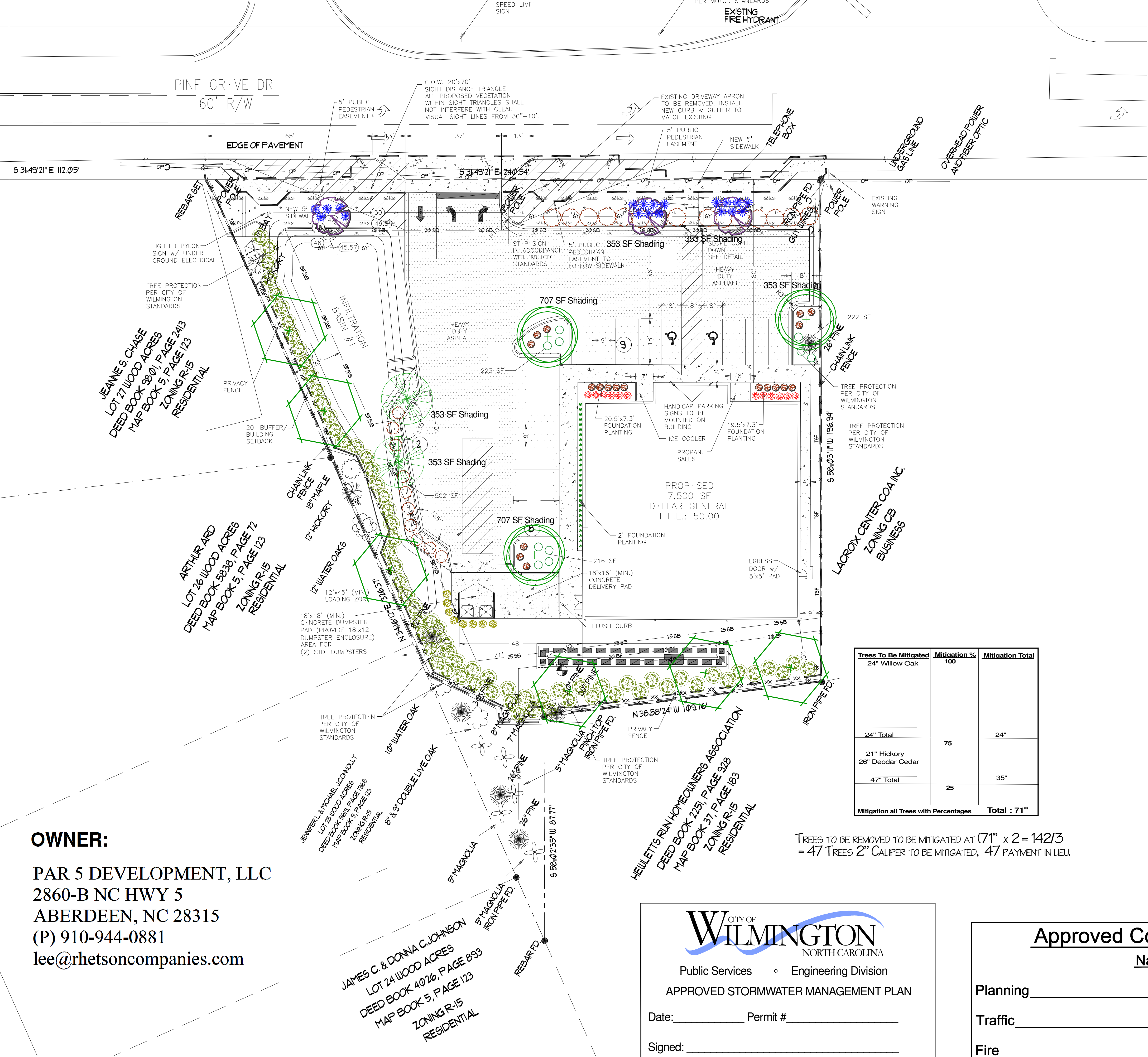
- DUE TO CHANGING LIGHTING ORDINANCES IT IS THE CONTRACTORS RESPONSIBILITY TO SUBMIT THE SITE PHOTOMETRICS AND LUMINAIRE SPECS TO THE LOCAL INSPECTOR BEFORE ORDERING TO ENSURE THIS PLAN COMPLIES WITH LOCAL LIGHTING ORDINANCES.
- THIS LIGHTING DESIGN IS BASED ON INFORMATION SUPPLIED BY OTHERS. CHANGES IN ELECTRICAL SUPPLY, AREA GEOMETRY AND OBJECTS WITHIN THE LIGHTED AREA MAY PRODUCE ILLUMINATION VALUES DIFFERENT FROM THE PREDICTED RESULTS SHOWN ON THIS LAYOUT.
- THIS LAYOUT IS BASED ON .IES FILES THAT WERE LAB TESTED OR COMPUTER GENERATED. ACTUAL RESULTS MAY VARY.

FILE:

dg-19883.agi

Date:

9-13-18



Legend

Common Name	Qty	Size
Flower, Grass		
Miscanthus 'Aagio'	20	3 Gal
Flower, Perennial		
Liriope, Emerald Goddess	29	1 Gal.
Shrub, Deciduous		
Rose, Drift, Red	19	3 Gal.
Shrub, Evergreen Broadleaf		
Boxwood, Wintergreen	12	3 Gal.
Holly, Needlepoint, Low Buffer	26	7 Gal., 36" Ht.
Holly, Yaupon, Dwarf	10	3 Gal.
Waxmyrtle	3' Ht.	75
Yew, Podocarpus		8
Tree, Deciduous		
European Hornbeams	3	2" Cal.
River Birch	6	2" Cal.
Allee Elm	3	2" Cal.
Tree, Evergreen		
Cypress, Bald	2	2" Cal.

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 / 0.96 AC X 15 Trees = 14 Trees 2" Cal Req'd & Prov'd
 BUILDING C-STRUCTURE TYPE: 2B
 BUILDING USE: RETAIL
 BUILDING HEIGHT: 18' - 1 ST-RY - 7,500 SF
 BUILDING L-T C-VERAGE: 18%
 WATER/SEWER DEMAND: 200 GALLONS PER DAY
 BUILDING SETBACKS:
 FR-NT: 20'
 SIDE: 0' - ADJACENT T- RESIDENTIAL
 REAR: 25' - ADJACENT T- RESIDENTIAL
 BUFFER: 20' - ADJACENT T- RESIDENTIAL
 EXISTING IMPERVIOUS: 5,275 SF
 EXISTING IMPERVIOUS T- BE REMOVED: 5,275 SF
 EXISTING IMPERVIOUS T- REMAIN: 0 SF
 PR-P-SED IMPERVIOUS AREA:
 BUILDING: 7,500 SF
 DRIVE ISLE / PARKING: 13,345 SF
 WALKS / CONCRETE: 3,620 SF
 T-TOTAL IMPERVIOUS AREA: PR-P-SED = 24,465 SF / 0.56 AC
 % IMPERVIOUS: 59.0%
 PR-P-SED 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)
 T-TOTAL SPACES PROVIDED: 19 SPACES
 STREETYARD:
 MULTIPLIER: 18
 REQUIRED: (240.54' x 37') 18 = 3,663.72 SF
 PROVIDED: 3,729 SF
 F-UNDATED-N PLANTING:
 REQUIRED: (FR-NT) (18'x85') .12 = 183.6 SF
 PROVIDED: (FR-NT) 220 SF
 REQUIRED: (SIDE) (18'x58') .12 = 125.28 SF
 PROVIDED: (SIDE) 130 SF
 BICYCLE PARKING REQUIRED: 5
 BICYCLE PARKING PROVIDED: 5

LANDSCAPE NOTES:

- PRIOR TO ANY CLEARING, GRADING OR CONSTRUCTION ACTIVITY, TREE PROTECTION FENCING WILL BE INSTALLED AROUND PROTECTED TREES OR GROVES OF TREES. NO CONSTRUCTION WORKERS, TOOLS, MATERIALS OR VEHICLES ARE PERMITTED WITHIN THE TREE PROTECTION FENCING.
- THE AREAS WITHIN THE TRIANGULAR SIGHT DISTANCE SHALL BE MAINTAINED FREE OF ALL OBSTRUCTIONS BETWEEN 30" AND 10'.
- A RAIN/FREEZE SENSOR SHALL BE USED IF THERE IS AN IRRIGATION SENSOR.
- USING THE CREATIVE STANDARD OF THE CODE, 50% OF THE STREETYARD SHALL BE PLANTED AS CALLED OUT.
- ALL PLANT BEDS ARE TO RECEIVE 3-4" OF PINESTRAW OR MULCH.
- LANDSCAPING SHALL BE COMPLETE BEFORE ISSUANCE OF A CO.

Streetyard LS Requirements
 Streetyard Prov'd = 3,729 SF / 600 = 6.2
 6 Canopy Trees (2" Cal.) & 37 Shrubs (12" Ht.) Req'd.

Parking Lot Shading LS Requirements
 13,345 SF x 20% = 2,669 SF Shading Req'd
 353 x 5 = 1,765 SF
 707 x 2 = 1,414 SF
 TOTAL SHADING PROVIDED = 3,179 SF

Trees To Be Mitigated	Mitigation %	Mitigation Total
24" Willow Oak	100	
24" Total		24"
21" Hickory	75	
26" Deodar Cedar		35"
47" Total		35"
Mitigation all Trees with Percentages		Total : 71"

TREES TO BE REMOVED TO BE MITIGATED AT (71" x 2 = 142/3 = 47 TREES 2" CALIPER TO BE MITIGATED, 47 PAYMENT IN LIEU

OWNER:
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 ABERDEEN, NC 28315
 (P) 910-944-0881
 lee@rhetscompanies.com

JAMES C. & DONNA C. JOHNSON
 LOT 24 WOOD ACRES
 DEED BOOK 4026, PAGE 893
 MAP BOOK 5, PAGE 123
 ZONING R-15
 RESIDENTIAL

CITY OF WILMINGTON
 NORTH CAROLINA

Public Services • Engineering Division

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Date: _____ Permit # _____

Signed: _____

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Name	Date
Planning _____	_____
Traffic _____	_____
Fire _____	_____



jim@freemanlandscape.com 910-796-1166

Revision #: 2
 Date: 10/2/2018

Scale:
 1" = 20'

Landscape Plan:
Dollar General - Pine Grove Rd.

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