PRELIMINARY DEVELOPMENT PLANS

for

REEDS PARKING FACILITY

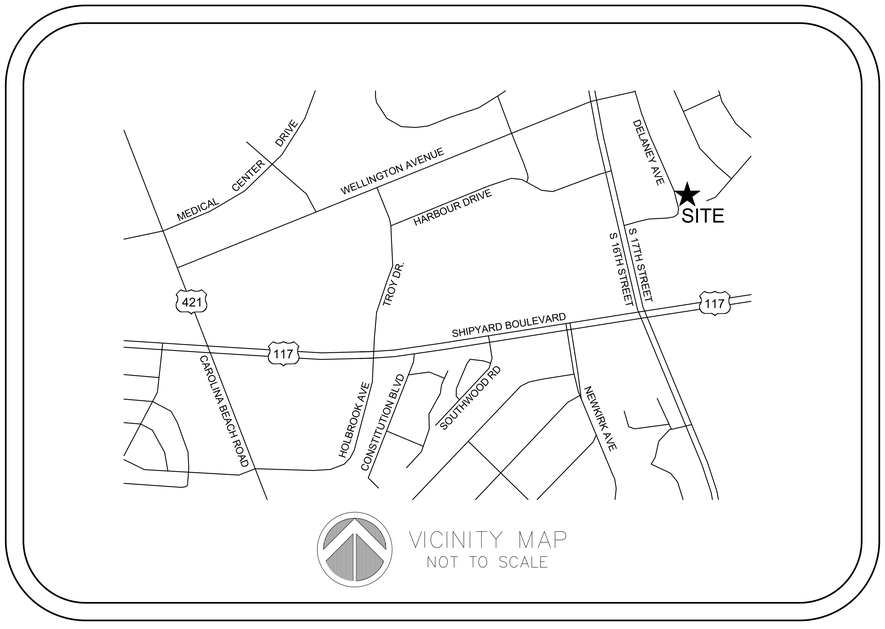
2519 & 2521 Delaney Avenue, Wilmington, NC

OWNER:
GLEN OAK FARM HOLDINGS, LLC
7102 THREE CHOPT ROAD
RICHMOND, VA 23226
(804) 212 - 4517

DEVELOPER:
ZIMMER DEVELOPMENT COMPANY, LLC
111 PRINCESS STREET
WILMINGTON, NC 28401
(910) 763 - 4669

ENGINEER:
Coastal Land Design,PLLC
Civil Engineering / Landscape Architecture
Land Planning / Construction Management
NCBELS Firm License No: P-0369
P.O.Box 1172 Phone: 910-254-9333
Wilmington, NC 28402 www.cldeng.com Fax: 910-254-0502

SURVEYOR:
MICHAEL UNDERWOOD AND ASSOCIATES, PA
102 CINEMA DRIVE, SUITE A
WILMINGTON, NC 28403
(910) 815-0650



VICINITY MAP
NOT TO SCALE

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REVIEW AGENCY	APPROVAL DATE	PERMIT NUMBER

REL	RELEASE NOTES	BY / DATE
B	RELEASED FOR 2nd TRC REVIEW	NAA 5/17/18

CITY OF WILMINGTON NORTH CAROLINA
Approved Construction Plan
Name Date
Planning
Traffic
Fire

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

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

NORTH CAROLINA LANDSCAPE ARCHITECT 390 REGISTERED FRANK BRAXTON
2/1/2018

ISSUED FOR AGENCY REVIEW ONLY

NOT RELEASED FOR CONSTRUCTION

BEFORE YOU DIG, CALL
North Carolina 811
www.nc811.org

GENERAL DEVELOPMENT NOTES:

1. PRIOR TO ANY CLEARING, GRADING, OR CONSTRUCTION ACTIVITY, TREE PROTECTION FENCING WILL BE INSTALLED AROUND PROTECTED TREES OR GROVES OF TREES AND NO CONSTRUCTION WORKERS, MATERIALS, OR VEHICLES ARE PERMITTED WITHIN THE TREE PROTECTION FENCING.
2. ALL PAVEMENT MARKINGS IN PUBLIC RIGHTS-OF-WAY AND FOR DRIVEWAYS ARE TO BE THERMOPLASTIC AND MEET CITY AND/OR NCDOT STANDARDS.
3. ONCE STREETS ARE OPEN TO TRAFFIC, CONTACT TRAFFIC ENGINEERING TO REQUEST INSTALLATION OF TRAFFIC AND STREET NAME SIGNS. ANY PROPOSED STREET NAMES MUST BE APPROVED PRIOR TO INSTALLATION OF STREET NAME SIGNS.
4. TRAFFIC CONTROL DEVICES (INCLUDING SIGNS AND PAVEMENT MARKINGS) IN AREAS OPEN TO PUBLIC TRAFFIC ARE TO MEET MUTCD (MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES) STANDARDS.
5. CONTACT TRAFFIC ENGINEERING AT (910) 341-7888 TO ENSURE THAT ALL TRAFFIC SIGNALS, FACILITIES AND EQUIPMENT ARE SHOWN ON THE PLAN. CALL TRAFFIC ENGINEERING AT (910) 341-7888 FORTY-EIGHT HOURS (48) PRIOR TO ANY EXCAVATION IN THE RIGHT-OF-WAY.
6. ANY BROKEN OR MISSING SIDEWALK PANELS, DRIVEWAY PANELS AND CURBING MUST BE REPLACED.
7. CONTACT TRAFFIC ENGINEERING AT (910) 341-7888 TO DISCUSS STREET LIGHTING OPTIONS.
8. PROJECT MUST COMPLY WITH THE CFPUA CROSS CONNECTION CONTROL REQUIREMENTS. WATER METER(S) CANNOT BE RELEASED UNTIL ALL REQUIREMENTS ARE MET AND THE STATE HAS GIVEN THEIR FINAL APPROVAL. CALL (910) 332-6419 FOR INFORMATION.
9. IF THE CONTRACTOR DESIRES CFPUA WATER FOR CONSTRUCTION, HE OR SHE SHALL APPLY IN ADVANCE FOR THIS SERVICE AND MUST PROVIDE A REDUCED PRESSURE ZONE (RPZ) BACKFLOW PREVENTION DEVICE ON THE DEVELOPER'S SIDE OF THE WATER METER BOX.
10. ANY IRRIGATION SYSTEM SUPPLIED BY CFPUA WATER SHALL COMPLY WITH THE CFPUA'S CONNECTION CONTROL REGULATIONS. CALL (910) 332-6419 FOR INFORMATION.
11. ANY IRRIGATION SYSTEM SHALL BE EQUIPPED WITH A RAIN AND FREEZER SENSOR.
12. ANY BACKFLOW PREVENTION DEVICES REQUIRED BY THE CFPUA WILL NEED TO BE ON THE LIST OF APPROVED DEVICES FOR USCFCCCHR OR ASSE.
13. A LANDSCAPING PLAN INDICATING THE LOCATION OF REQUIRED STREET TREES SHALL BE SUBMITTED TO THE CITY OF WILMINGTON TRAFFIC ENGINEERING DIVISION AND THE PARKS AND RECREATION DEPARTMENT FOR REVIEW AND APPROVAL PRIOR TO THE RECORDING OF THE FINAL PLAT.
14. PERMITTING OF BUSINESS IDENTIFICATION SIGNAGE IS A SEPARATE PROCESS. NEITHER NCDOT OR THE CITY OF WILMINGTON WILL ALLOW OBSTRUCTIONS WITHIN THE RIGHT-OF-WAY.
15. ALL TRAFFIC CONTROL SIGNS AND MARKINGS OFF THE RIGHT-OR-WAY ARE TO BE MAINTAINED BY THE PROPERTY OWNER IN ACCORDANCE WITH MUTCD STANDARDS.
16. INSTALL REFLECTORS PER CITY AND NCDOT STANDARDS. TRAFFIC ENGINEERING MUST APPROVE OF PAVEMENT MARKING LAYOUT PRIOR TO ACTUAL STRIPING.
17. ALL PARKING STALL MARKINGS AND LANE ARROWS WITHIN PARKING AREAS SHALL BE WHITE.
18. ANY TREES AND/OR AREAS DESIGNATE TO BE PROTECTED MUST BE PROPERLY BARRICADED WITH FENCING AND PROTECTED THROUGHOUT CONSTRUCTION TO INSURE THAT NO CLEARING, GRADING, OR STAGING MATERIALS WILL OCCUR IN THOSE AREAS.
19. NO EQUIPMENT IS ALLOWED ON SITE UNTIL ALL TREE PROTECTION FENCING IS INSTALLED AND APPROVED. PROTECTIVE FENCING IS TO BE MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT, AND CONTRACTORS SHALL RECEIVE ADEQUATE INSTRUCTION ON TREE PROTECTION METHODS.
20. STOP SIGNS AND STREET SIGNS TO REMAIN IN PLACE DURING CONSTRUCTION.
21. TACTILE WARNING MATS WILL BE INSTALLED ON ALL WHEELCHAIR RAMPS.
22. A UTILITY CUT PERMIT IS REQUIRED FOR EACH OPEN CUT OF A CITY STREET
23. CONTRACTOR TO FIELD VERIFY EXISTING WATER AND SEWER SERVICE LOCATIONS, SIZES, AND MATERIALS PRIOR TO CONSTRUCTION. ENGINEER TO BE NOTIFIED OF ANY CONFLICTS.
24. CONTRACTOR SHALL MAINTAIN ALL-WEATHER ACCESS FOR EMERGENCY VEHICLES AT ALL TIMES DURING CONSTRUCTION.
25. NO OBSTRUCTIONS ARE PERMITTED IN THE SPACE BETWEEN THIRTY (30) INCHES AND TEN (10) FEET ABOVE THE GROUND WITHIN THE TRIANGULAR SIGHT DISTANCE.
26. CONTACT THE NORTH CAROLINA ONE CALL CENTER AT 1-800-632-4949 PRIOR TO DOING ANY DIGGING, CLEARING, OR GRADING.

CONSTRUCTION NOTES:

1. THE PROPERTY BOUNDARY, TOPOGRAPHIC, AND UTILITY SURVEY SHOWN ON THESE PLANS WERE PROVIDED BY MICHAEL UNDERWOOD AND ASSOCIATES, P.A. LOCATED AT 102 CINEMA DRIVE, SUITE A, WILMINGTON, NORTH CAROLINA, 28403.
2. THERE ARE NO WETLANDS ON THIS SITE.
3. THIS PROJECT WILL REQUIRE A TOTAL OF 0.95 ACRES (41,500 SF) OF DISTURBANCE.
4. STORMWATER RUNOFF FROM THIS PROJECT DRAINS TO THE SILVERSTREAM REGIONAL WATER QUALITY FACILITY (SWB 921002) AS AN OFF-SITE LOT WITHIN THE O&I ZONING DISTRICT. RUNOFF FROM THE SILVERSTREAM REGIONAL WATER QUALITY FACILITY DRAINS TO THE GREENFIELD LAKE (STREAM CLASSIFICATION OF C;Sw).
5. THE MAXIMUM ALLOWABLE BUILT UPON AREA FOR THIS PROJECT IS 75% OF THE COMBINED LOT AREA (30,709 SF). THE TOTAL PROPOSED BUILT UPON AREA IS 30,520 SF (74.54%).
6. THE SITE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITIES ABOVE AND BELOW GROUND BEFORE COMMENCING CONSTRUCTION.
7. THE CONTRACTOR SHALL COORDINATE WITH THE CITY OF WILMINGTON ENGINEERING DEPARTMENT PRIOR TO DISTURBING DELANEY AVENUE OR CONNECTION TO THE CITY OF WILMINGTON STORMWATE DRAINAGE SYSTEM.
8. THE SITE CONTRACTOR IS RESPONSIBLE FOR DISPOSAL OF ALL WASTE MATERIALS GENERATED THROUGH DEMOLITION AND GRUBBING ACTIVITIES SHOWN ON THESE PLANS.
9. THE CONTRACTOR IS RESPONSIBLE TO ENSURE THAT SEDIMENT-LADEN RUNOFF IS TREATED PRIOR TO BEING DISCHARGED FROM THE SITE AND MAY BE REQUIRED TO PROVIDE ADDITIONAL MEASURES OF SEDIMENT CONTROL BASED UPON THE PERFORMANCE OF EROSION CONTROL MEASURES PROVIDED ON SITE.
10. THE PERIMETER OF THE SITE SHALL BE WRAPPED IN SEDIMENT FENCE AND HARDWARE CLOTH AND GRAVEL INLET PROTECTION SHALL BE PLACED OVER EACH PROPOSED DRAINAGE INLET DURING CONSTRUCTION ACTIVITIES.
11. DENUDED AREAS MUST BE STABILIZED BASED UPON THE GROUND STABILIZATION REQUIREMENTS PROVIDED ON THE APPROVED EROSION CONTROL DRAWINGS. THIS INCLUDES SLOPES, SWALES, CHANNELS, AND STOCKPILES.
12. ALL STORM DRAIN INFRASTRUCTURE MUST BE INSTALLED TO PROVIDE POSITIVE DRAINAGE TO THE OUTLET.
13. THE EXISTING DRAINAGE PATTERNS FOR THIS PROPERTY ARE MAINTAINED WITH THE PROPOSED DEVELOPMENT.

SPECIAL USE PERMIT CONDITION (SU-7-118):

1. THE APPLICANT SHALL FULLY COMPLY WITH ALL THE SPECIFIC REQUIREMENTS STATED IN THE LAND DEVELOPMENT CODE FOR THE PROPOSED USE AS WELL AS ANY ADDITIONAL CONDITIONS STATED BELOW.
2. IF ANY SECTION, SUBSECTION, PARAGRAPH, SENTENCE, CLAUSE, PHRASE, OR PORTION OF THIS PERMIT IS FOR ANY REASON HELD INVALID OR UNCONSTITUTIONAL, BY ANY COURT OF COMPETENT JURISICTION, THIS SPECIAL USE PERMIT SHALL BE NULL AND VOID AND OF NO EFFECT.
3. THE USE AND DEVELOPMENT OF THE SUBJECT PROPERTY SHALL BE IN ACCORDANCE WITH THE SITE PLAN RECEIVED ON 11/15/17 AND INCLUDE AN EIGHT (8) FOOT TALL FENCE ALONG THE REAR PROPERTY LINE.
4. THE USE AND DEVELOPMENT OF THE SUBJECT PROPERTY SHALL COMPLY WITH ALL OTHER SUPPLEMENTAL REGULATIONS AND REQUIREMENTS IMPOSED BY THE LAND DEVELOPMENT CODE OR ANY OTHER APPLICABLE FEDERAL, STATE, OR LOCAL LAW, ORDINANCE, OR REGULATION. IN THE EVENT OF A CONFLICT, THE MORE STRINGENT REQUIREMENT OR HIGHER STANDARD SHALL APPLY.
5. APPROVAL OF THIS SPECIAL USE PERMIT DOES NOT CONSTITUTE TECHNICAL APPROVAL OF THE SITE PLAN. ALL TECHNICAL REVIEW COMMITTEE COMMENTS SHALL BE FOLLOWED PRIOR TO ISSUANCE OF A CONSTRUCTION RELEASE OR FINAL ZONING APPROVAL.
6. SITE LIGHTING SHALL BE LIMITED TO THAT NEEDED FOR SAFETY AND SECURTY. IN ALL INSTANCES, LIGHTING SHALL BE LOCATED, ANGLED, SHIELDED, AND/OR LIMITED IN INTENSITY SO AS TO CAST NO DIRECT LIGHT UPON ADJACENT RESIDENTIAL PROPERTIES.
7. A THREE (3) FOOT HIGH BUFFER WITH A MINIMUM DEPTH OF TEN (10) FEET SHALL BE PROVIDED IN THE FRONT YARD TO SCREEN PARKING AREAS FROM THE ROAD.
8. SIX (6) PERCENT OF THE GROSS PARCEL AREA SHALL BE LANDSCAPED TO THE FOLLOWING STANDARDS:
   A. LANDSCAPED AREAS SHALL BE EVENLY LOCATED AROUND THE PERIMETER OF THE PARCEL.
   B. ONE (1) TREE AND SIX (6) SHRUBS SHALL BE PLANTED FOR EVERY FIFTEEN (15) PARKING SPACES.
   C. FIFTY (50) PERCENT OF TREES SHALL BE OF A SHADE/CANOPY VARIETY AS DEFINED IN THIS CHAPTER
9. ALL CITY, STATE AND FEDERAL REGULATIONS SHALL BE MET
10. EMERGENCY LIGHT CALL BOX (BLUE LIGHT) SHALL BE INSTALLED ON SITE.

LABEL	GROUND STABILIZATION		
	SITE AREA DESCRIPTION	STABILIZATION TIME FRAME	STABILIZATION TIME FRAME EXEMPTIONS
	PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	BOTTOM SURFACE AREA OF INFILTRATION AREAS ARE NOT SUBJECT TO THIS CRITERION.
	HIGH QUALITY WATER (HQW) 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 FEET IN LENGTH
	ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE (EXCEPT FOR PERIMETERS AND HQW ZONES)

GRASS TYPE	AMOUNT/ 1000 SF.	TIME OF SEEDING	INITIAL	FERTILIZATION/1000 SF. MAINTENANCE		
RYE GRAIN	1-2 LBS.	NOV. THRU JAN.	25 LBS. 10-10-10	NA	NA	NA
BROWNTOP MILLET	1-2 LBS.	JUNE THRU AUG.	25 LBS. 10-10-10	NA	NA	NA

TEMPORARY SEEDING SCHEDULE

GRASS TYPE	AMOUNT/ 1000 SF.	TIME OF SEEDING	INITIAL	FERTILIZATION/1000 SF. MAINTENANCE		
BERMUDA, COMMON	1-2 LBS.	APR. THRU JUNE	25 LBS. 10-10-10	MARCH - APRIL 12 LBS. 10-10-10	EACH 4-8 WEEKS 1-2 LBS. N.	AUG. - SEPT. 12 LBS. 10-10-10
FESCUE, TALL (KENTUCKY 31)	5-7 LBS.	SEPT. THRU OCT. FEB. THRU OCT.	25 LBS. 10-10-10	FEB. - MARCH 12 LBS. 10-10-10	MAY & DEC. 1/2 TO 1 LB. N.	SEPT. - OCT. 12 LBS. 10-10-10
SERICEA LESPEDEZA (SLOPES)	1-2 LBS.	MARCH THRU APR.	25 LBS. 10-10-10	FEB. - MARCH	1/2 TO 1 LB. N.	NA

PERMANENT SEEDING SCHEDULE

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

CITY OF WILMINGTON NORTH CAROLINA
Approved Construction Plan
Name Date
Planning _____
Traffic _____
Fire _____

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Wilmington, NC 28402 Fax: 910-254-0502
www.cldeng.com

REEDS PARKING FACILITY

GENERAL NOTES

REV	DATE	DESCRIPTION	INIT
B	5/17/18	RELEASED FOR 2nd TRC REVIEW	

OWNER:
Glen Oak Farm Holdings,LLC
7102 Three Chopt Rd.
Richmond, VA 23226

NORTH CAROLINA PROFESSIONAL SEAL 033196 ENGINEER
2/1/2018

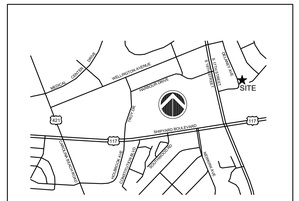
APPROVED:	JP	PROJECT:	960-27
CHECKED:	FB	SCALE:	AS SHOWN
DESIGNED:	NA	RELEASE:	

SHEET
G-01

NORTH

20 0 20 40

SCALE 1:20 (WHEN PRINTED ON 24 X 36 ARCH D PAPER)



SITE DATA

OWNER: GLEN OAK FARM HOLDINGS LLC
7102 THREE CHOPT RD
RICHMOND, VA 23226

ACREAGE: 0.41 AC (17,860 SF)
0.53 AC (23,086 SF)
0.94 AC (40,946 SF) TOTAL

PIN: PID#:R06015-002-044-000
PID#:R06015-002-043-000

ZONING: O&I-1

PID: R06015-002-023-000
NICHOLAS ANTHONY BASTA
DB:5520 PG:827
ZONING: R-15
LU:10-1 FAM RES.

PID: R06016-003-036-000
MILES MARTHA T ETAL
DB:5587, PG:2924
ZONING: R-15
LU:10-1 FAM RES.

LOT 7
PHASE 2
GLEN MEADE EXTENSION
MAP BOOK 33 PAGE 247

6' WOOD PRIVACY FENCE ALONG ℄

S27°36'21"E 120.00'

S27°36'21"W 148.57'

E.I.P.

LOT 7
18,065± Sq.Ft.

LOT 8
23,227± Sq.Ft.

PID: R06016-003-035-000
RUSSEL BROOK
DB:6020 PG:2351
ZONING: R-15
LU:958 UNUSED

SDMH
RIM:51.56
INV.:47.71

SSMH
RIM:51.65
INV.:44.33

10"SS

30' 30'

30" RCP

8" WATER LINE LOCATON IS APPROXIMATE

60' PUBLIC UTILITY EASEMENT
DB:2327 PG:0480
MB:37 PG:341

S67°02'27"W 86.67'

PARKING LOT

LOT 6

PID: R06015-002-042-000
YOUNGBLOOD MANAGEMENT SERVICES
DB:3816 PG:227
ZONING: O&I-1
LU:899 OTHER SERVICES

S62°23'39"W 150.00'

SPOILS AREA
MANY PILES 1-2' HIGH

SPOILS AREA
MANY PILES 1-2' HIGH

S62°23'39"W 15.57'

sycamore 8

E.I.P.
sycamore 16

oak 15

oak 15

LOT 9

PID: R06019-002-002-000
HSP 1 INC.
DB:2327 PG:480
ZONING: O&I-1
LU:801 PHYSICIAN

S72°17'51"W 106.25'

GAS WARNING POST

GAS LINE PAINT

SSMH
RIM:51.43
INV.:42.03

GUY WIRE
CA TV PEDESTAL
POWER POLE

10' NON-MUNICIPAL UTILITY EASEMENT

R/W

N24°40'10"W
CH=61.90'
ARC=61.93'

N22°16'21"E 58.18'

TELEPHONE PEDESTAL

N19°43'04"W
CH=42.50'
ARC=42.51'

S17°42'09"E 20.15'

EXISTING PARALLEL PARKING

CURB INLET
TC = 52.17
BC = 51.33
EP = 51.70
INV. = 48.87

WATER METER

WATER VALVE

N8°17'07"W
CH=67.68'
ARC=68.45'

GUY WIRE
CA TV PEDESTAL
GUY WIRE

NO PARKING SIGN

TELE PEDESTAL

SDMH
RIM:52.72
INV.:47.32

EXISTING DRIVEWAY

15" RCP

DROP INLET
TOP: 52.67
INV.: 48.45

DELANEY AVENUE 60' PUBLIC R/W

EXISTING PARALLEL PARKING

EXISTING PARALLEL PARKING

EXISTING PARALLEL PARKING

EXISTING DRIVEWAY

SDMH
RIM:52.03
INV.:48.83

CURB INLET
T.C.:52.07
B.C.:51.18
E.P.:51.64
INV.:48.62

EXISTING DRIVEWAY

EXISTING ON-STREET PARKING IN FRONT OF DRIVEWAY

PID: R06015-002-001-032
ZIMMER BROS A PARTNERSHIP
DB:1308 PG:0075
ZONING: O&I-1
LU:752 AUTO PARKING

UNDERGROUND TELEPHONE

FIRE HYDRANT
BENCH MARK
TOP NUT: 55.59

WATER VALVES

PID: R06015-002-045-000
ROBINSON RONALD E MICHELLE L
DB:3849 PG:0650
ZONING: O&I-1
LU:802 DENTAL SERVICE

WATER LINE PAINT

18" RCP

N3°51'51"E
CH=156.73'
ARC=185.00'

SDMH
RIM:52.43
INV.:47.51

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

CITY OF WILMINGTON NORTH CAROLINA
Approved Construction Plan
Name Date
Planning _____
Traffic _____
Fire _____

SURVEY INFORMATION PROVIDED BY:

MICHAEL UNDERWOOD and ASSOCIATES, PA
102 CINEMA DRIVE, SUITE A
WILMINGTON, NC 28403
PHONE: 910-815-0650
FAX: 910-815-0393
E-MAIL: mua@bizec.rr.com Firm License #C-0615

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REEDS PARKING FACILITY

EXISTING CONDITIONS

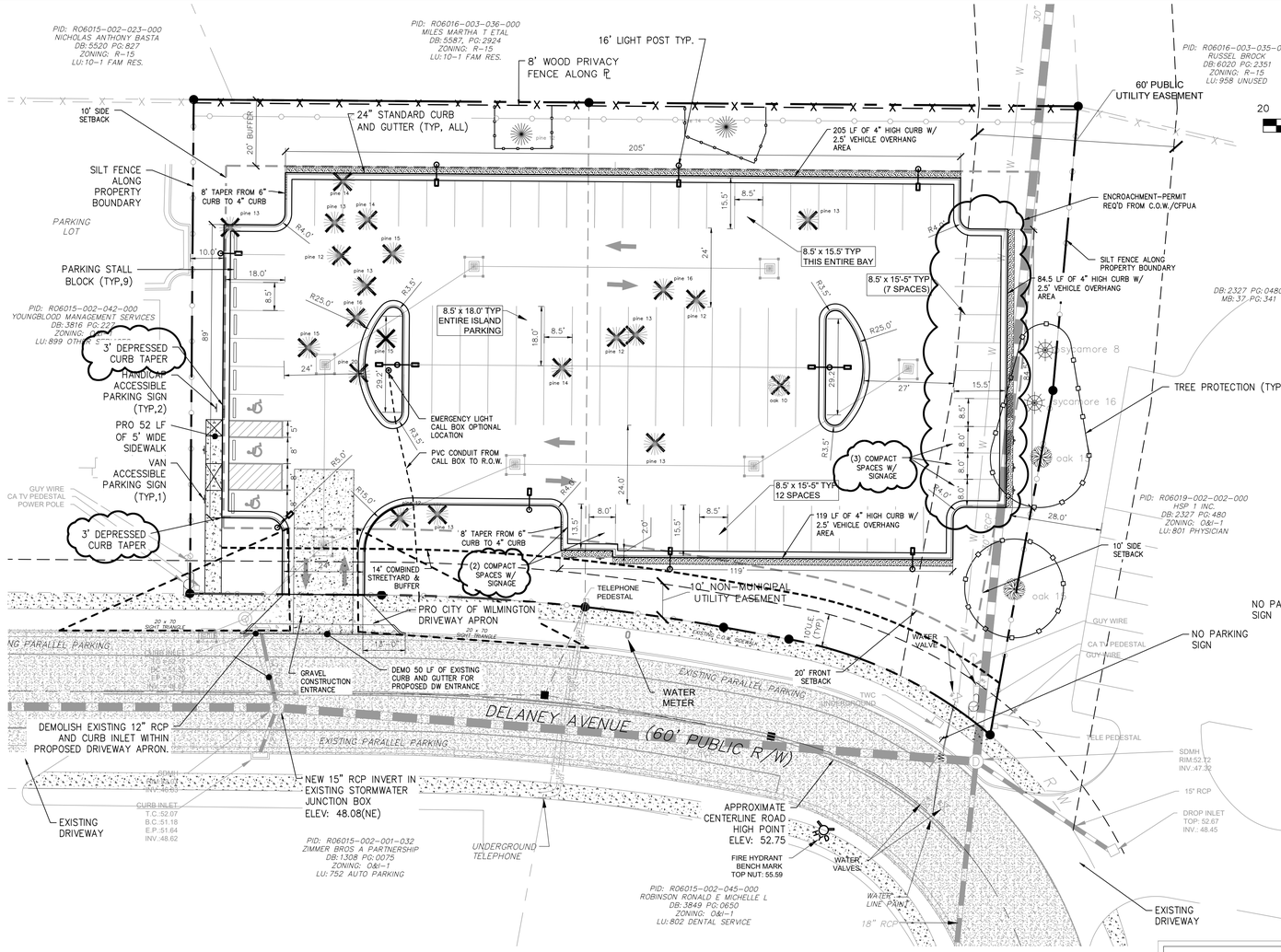
REV	DATE	DESCRIPTION	INIT
B	5/17/18	RELEASED FOR 2nd TRC REVIEW	NAA

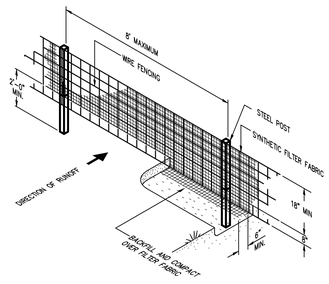
OWNER:
Glen Oak Farm Holdings,LLC
7102 Three Chopt Rd.
Richmond, VA 23226

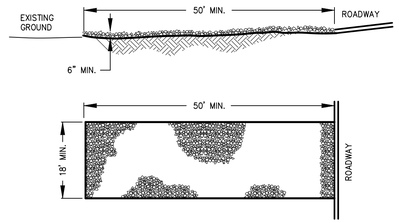
NORTH CAROLINA PROFESSIONAL SEAL 033196 ENGINEER JOHN A. PARMINE
2/1/2018

APPROVED:	JP	PROJECT:	960-27
CHECKED:	FB	SCALE:	AS SHOWN
DESIGNED:	NA	RELEASE:	

SHEET
EX-01







NO PARKING SIGN

SEDIMENT FENCE CONSTRUCTION SPECIFICATIONS:

(1) SILT FENCE IS TO BE TRENCHED IN WITH TRENCHING MACHINE IN ORDER TO HAVE THE MINIMUM AREA OF DISTURBANCE (NON-EVASIVE) UPON INSTALLATION.

(2) HEIGHT OF SEDIMENT FENCE IS NOT TO EXCEED 18" ABOVE THE GROUND SURFACE.

(3) FILTER FABRIC TO BE CONSTRUCTED FROM CONTINUOUS ROLL CUT TO LENGTH TO AVOID JOINTS. IF JOINTS ARE NECESSARY, FILTER CLOTH IS TO BE SECURELY FASTENED TO SUPPORT POST WITH OVERLAP TO THE NEXT POST.

(4) FILTER FABRIC TO BE SUPPORTED BY WIRE MESH FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY DUTY STAPLES AT LEAST 1" LONG OR TIE WIRES. EXTEND WIRE MESH SUPPORT TO THE BOTTOM OF THE TRENCH.

(5) A MAXIMUM OF 8' STAKE SPACING IS ALLOWED WHEN WIRE MESH SUPPORT FENCE IS USED. SUPPORT POST SHOULD BE DRIVEN SECURELY INTO THE GROUND A DISTANCE OF AT LEAST 18".

(6) EXTRA STRENGTH FILTER FABRIC WITH 6' POST SPACES DOES NOT REQUIRE WIRE MESH SUPPORT FENCE. STAPLE OR WIRE THE FILTER FABRIC DIRECTLY TO POSTS.

(7) EXCAVATE A TRENCH APPROXIMATELY 4" WIDE AND 8" DEEP ALONG THE PROPOSED LINE OF POSTS AND UPSLOPE FROM THE BARRIER.

(8) EXISTING DRIVEWAY H WITH COMPACT SOIL OR GRAVEL PLACED OVER THE FILTER FABRIC.

(9) DO NOT ATTACH FILTER FABRIC TO EXISTING TREES.

SEDIMENT FENCE MAINTENANCE:

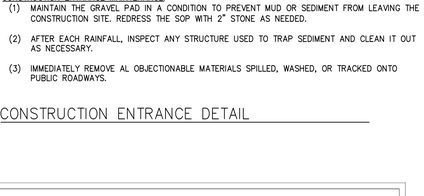
(1) INSPECT SEDIMENT FENCES AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY

(2) SHOULD THE FABRIC OF A SEDIMENT FENCE COLLAPSE, TEAR, DECOMPOSE OR BECOME INEFFECTIVE, REPLACED IT PROMPTLY. REPLACE BURLAP EVERY 60 DAYS.

(3) 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.

(4) REMOVE ALL FENCING MATERIALS AND UNSTABLE SEDIMENT DEPOSITS AND BRING THE AREA TO GRADE AND STABILIZE IT AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.

SILT FENCE DETAIL
NOT TO SCALE



CONSTRUCTION ENTRANCE CONSTRUCTION SPECIFICATIONS:

(1) CLEAR THE ENTRANCE AND EXIST AREA OF ALL VEGETATION, ROOTS, AND OTHER OBJECTIONABLE MATERIAL

(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) TRAFFIC WILL ENTER OR LEAVE THE CONSTRUCTION SITE ONTO A PUBLIC STREET. FILTER FABRIC OR COMPACTED CRUSHER RUN STONE MAY BE USED AS A BASE FOR THE CONSTRUCTION ENTRANCE.

(5) THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC STREETS OR EXISTING PAVEMENT. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS WARRANT AND REPAIR OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ANY SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PUBLIC STREETS MUST BE REMOVED IMMEDIATELY.

(6) WHEN APPROPRIATE, WHEELS MUST BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTERING A PUBLIC STREET. WHEN WASHING IS REQUIRED, IT SHALL BE DONE IN AN AREA STABILIZED WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED SEDIMENT BASIN SOIL STABILIZATION FABRIC SHALL BE USED.

(7) NCDOT MAY REQUIRE A STANDARD COMMERCIAL DRIVEWAY TO ACCESS THE CONSTRUCTION SITE IF THE DRIVEWAY IS ON A THOROUGHFARE.

CONSTRUCTION ENTRANCE MAINTENANCE:

(1) MAINTAIN THE GRAVEL PAD IN A CONDITION TO PREVENT MUD OR SEDIMENT FROM LEAVING THE CONSTRUCTION SITE. REDRESS THE SOP WITH 2" STONE AS NEEDED.

(2) AFTER EACH RAINFALL, INSPECT ANY STRUCTURE USED TO TRAP SEDIMENT AND CLEAN IT OUT AS NECESSARY.

(3) IMMEDIATELY REMOVE AL OBJECTIONABLE MATERIALS SPILLED, WASHED, OR TRACKED ONTO PUBLIC ROADWAYS.

CONSTRUCTION ENTRANCE DETAIL

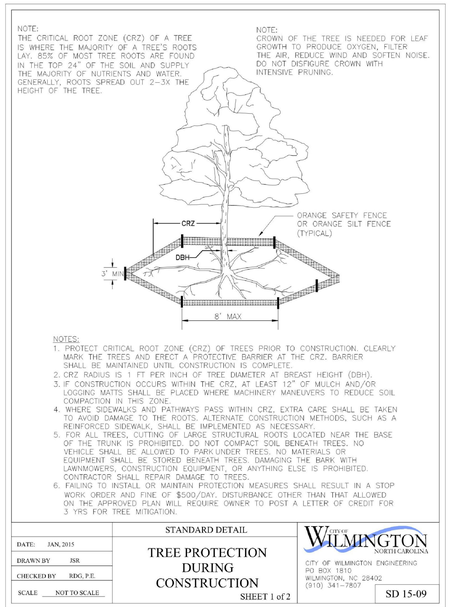
Proposed Regulated Trees to be Removed

Tree Name	# of Trees	DBH	% Mitigation	Total DBH
PINE	4	12	NA	48
PINE	7	13	NA	91
PINE	3	14	NA	42
PINE	3	15	NA	45
PINE	2	16	NA	32
PINE	1	20	NA	20
OAK	1	10	NA	20
Total DBH of Removed Regulated Trees				298
Total Trees Req. for Mitigation	=	NO MITIGATION REQ'D SEE NOTE BELOW		

Section 18-461 Exceptions to Mitigation: (b)Regulated trees removed within the area of disbursement necessary for essential site improvements are exempt from mitigation, provided the applicant has designed around trees in order to retain as many trees as practicable.

SITE DATA TABLE

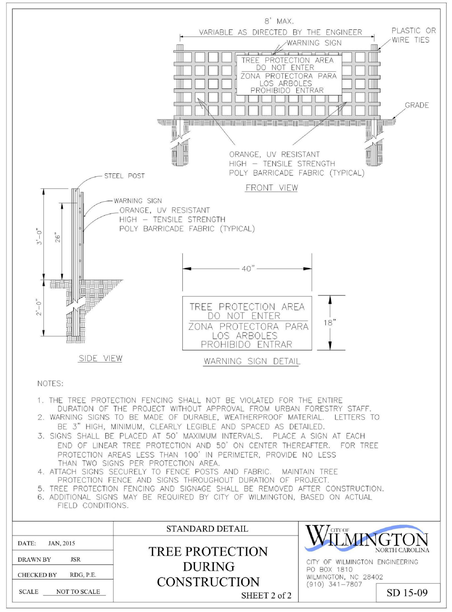
PROJECT:	REEDS PARKING FACILITY	PARCEL SIZE:	0.41 AC (17,860 SF) 0.53 AC (23,086 SF) 0.94 AC (40,946 SF) TOTAL
ADDRESS:	2519 & 2521 DELANEY AVE WILMINGTON, NC	SETBACKS:	✱ NO BUILDING TO BE CONSTRUCTED
OWNER:	GLEN OAK FARM HOLDINGS LLC 7102 THREE CHOPT RD RICHMOND, VA 23226	FRONT:	20'
TAX ID:	PID#:R06015-002-044-000 PID#:R06015-002-043-000	REAR:	20 (25' WHEN ABUTTING RESIDENTIAL)
DEED:	D.B. 5791 PG. 2470	SIDE:	10'
ZONING:	O&I-1	MAX BLDG. HT.:	N/A
WETLANDS:	NONE	PARKING SPACES:	87 (INCLUDING 3 ADA SPACES)
CAMA LAND USE:	URBAN		
FLOOD ZONE:	NONE		
CURRENT USE:	958-VACANT LAND		
PROPOSED USE:	COMMERCIAL PARKING LOT		



STANDARD DETAIL
TREE PROTECTION DURING CONSTRUCTION
SHEET 1 of 2

DATE: JAN, 2015 | DRAWN BY ISR | CHECKED BY RDG, P.E. | SCALE NOT TO SCALE

CITY OF WILMINGTON ENGINEERING
PO BOX 1810
WILMINGTON, NC 28402
(910) 341-7807
SD 15-09



STANDARD DETAIL
TREE PROTECTION DURING CONSTRUCTION
SHEET 2 of 2

DATE: JAN, 2015 | DRAWN BY ISR | CHECKED BY RDG, P.E. | SCALE NOT TO SCALE

CITY OF WILMINGTON ENGINEERING
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WILMINGTON, NC 28402
(910) 341-7807
SD 15-09

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www.nc811.org

CITY OF WILMINGTON NORTH CAROLINA
Approved Construction Plan
Name Date
Planning
Traffic
Fire

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

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

Coastal Land Design, PLLC
Civil Engineering / Landscape Architecture
Land Planning / Construction Management
NCBELS Firm License P-0369
P.O.Box 1172 Phone: 910-254-9333
Wilmington, NC 28402 Fax: 910-254-0502
www.cldeng.com

REEDS PARKING FACILITY

PROPOSED SITE PLAN

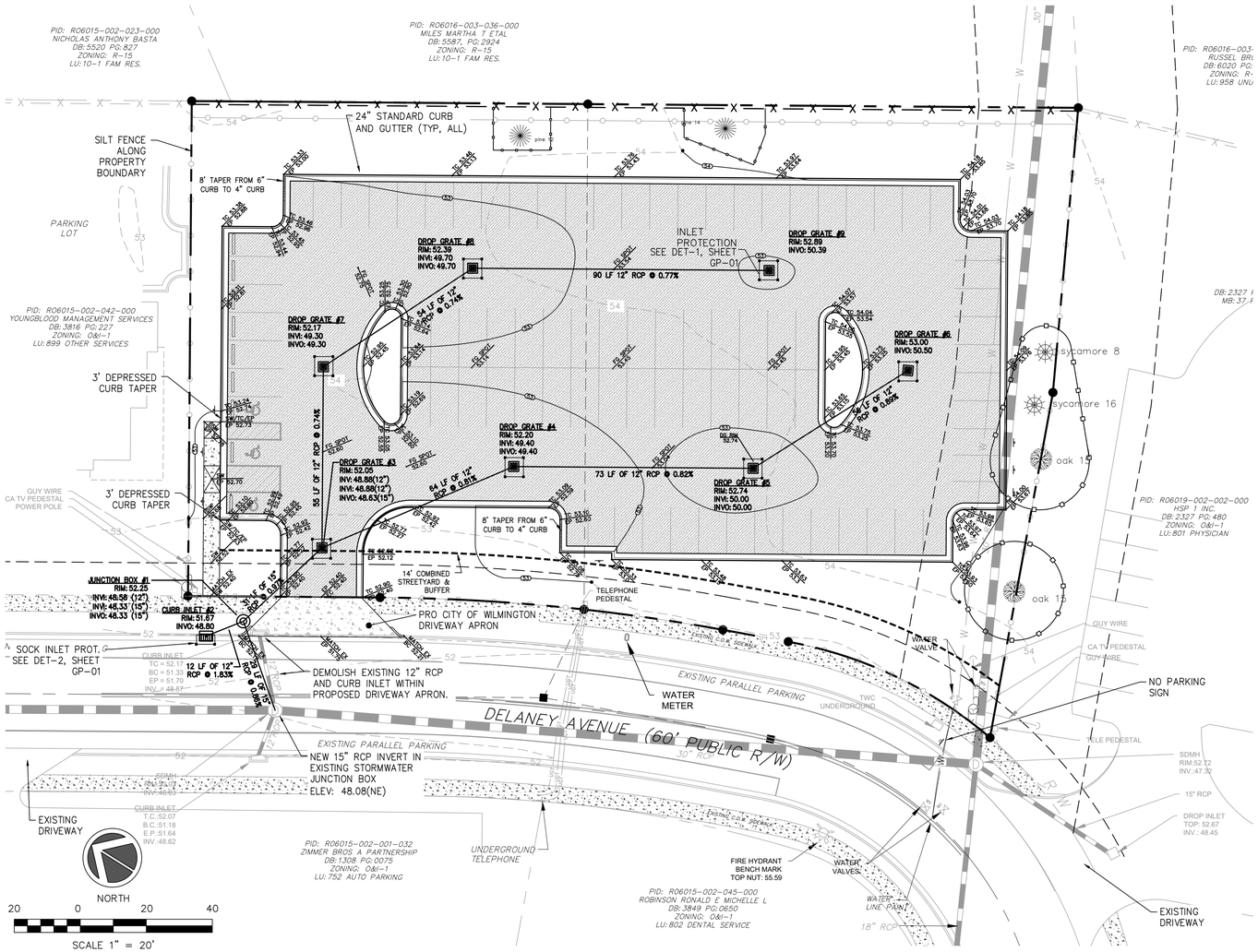
REV	DATE	DESCRIPTION	
B	5/17/18	RELEASED FOR 2nd TRC	NAA
A	2/1/18	RELEASED FOR NCDEQ STORMWATER PERMITTING	JRC
			INIT

OWNER:
Glen Oak Farm Holdings,LLC
7102 Three Chopt Rd.
Richmond, VA 23226

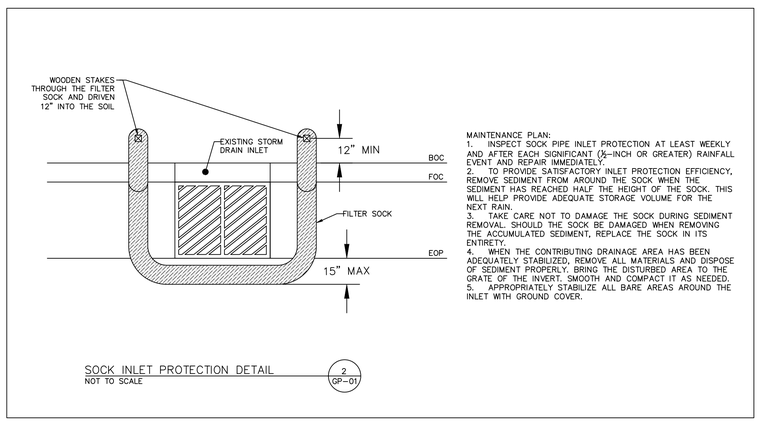
NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 390 FRANK BRAXTON
2/1/2018

APPROVED:	JP	PROJECT:	960-27
CHECKED:	FB	SCALE:	AS SHOWN
DESIGNED:	NA	RELEASE:	

SHEET
SP-01

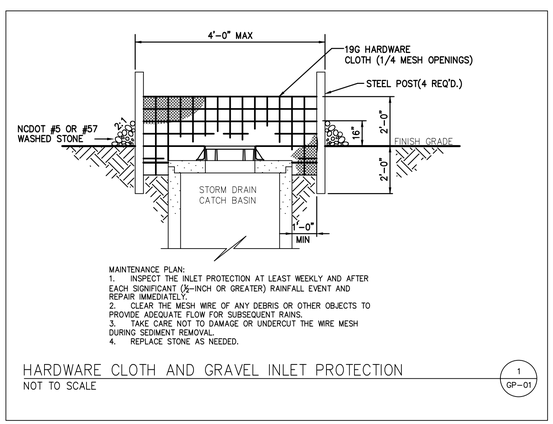


TOTAL PROPERTY AREA	
2519 DELANEY AVENUE	= 17,860 SF
2521 DELANEY AVENUE	= 23,086 SF
COMBINED LOTS AREA	= 40,946 SF
IMPERVIOUS AREA	
ON-SITE BUILDINGS	= NONE
ON-SITE STREETS	= NONE
ON-SITE PARKING	= 25,396 SF
ON-SITE SIDEWALK	= 263 SF
OTHER ON-SITE	= NONE
FUTURE ON-SITE	= 4,500 SF
OFF-SITE (DRIVEWAY APRON)	= 435 SF
TOTAL	= 30,594 SF
PROJECT DENSITY	
30,520 SF / 40,946 SF (100) = 74%	



MAINTENANCE PLAN:
1. INSPECT SOCK PIPE INLET PROTECTION AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (½-INCH OR GREATER) RAINFALL EVENT AND REPAIR IMMEDIATELY.
2. TO PROVIDE SATISFACTORY INLET PROTECTION EFFICIENCY, REMOVE SEDIMENT FROM AROUND THE SOCK WHEN THE SEDIMENT HAS REACHED HALF THE HEIGHT OF THE SOCK. THIS WILL HELP PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN.
3. TAKE CARE NOT TO DAMAGE THE SOCK DURING SEDIMENT REMOVAL. SHOULD THE SOCK BE DAMAGED WHEN REMOVING THE ACCUMULATED SEDIMENT, REPLACE THE SOCK IN ITS ENTIRETY.
4. WHEN THE CONTRIBUTING DRAINAGE AREA HAS BEEN ADEQUATELY STABILIZED, REMOVE ALL MATERIALS AND DISPOSE OF SEDIMENT PROPERLY. BRING THE DISTURBED AREA TO THE GRATE OF THE INVERT. SMOOTH AND COMPACT IT AS NEEDED.
5. APPROPRIATELY STABILIZE ALL BARE AREAS AROUND THE INLET WITH GROUND COVER.

SOCK INLET PROTECTION DETAIL
NOT TO SCALE
2 GP-01



MAINTENANCE PLAN:
1. INSPECT THE INLET PROTECTION AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (½-INCH OR GREATER) RAINFALL EVENT AND REPAIR IMMEDIATELY.
2. CLEAR THE MESH WIRE OF ANY DEBRIS OR OTHER OBJECTS TO PROVIDE ADEQUATE FLOW FOR SUBSEQUENT RAINS.
3. TAKE CARE NOT TO DAMAGE OR UNDERCUT THE WIRE MESH DURING SEDIMENT REMOVAL.
4. REPLACE STONE AS NEEDED.

HARDWARE CLOTH AND GRAVEL INLET PROTECTION
NOT TO SCALE
1 GP-01

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CITY OF WILMINGTON NORTH CAROLINA
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Name Date
Planning
Traffic
Fire

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

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Land Planning / Construction Management
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Wilmington, NC 28402 Fax: 910-254-0502
www.cldeng.com

REEDS PARKING FACILITY

PROPOSED GRADING & DRAINAGE

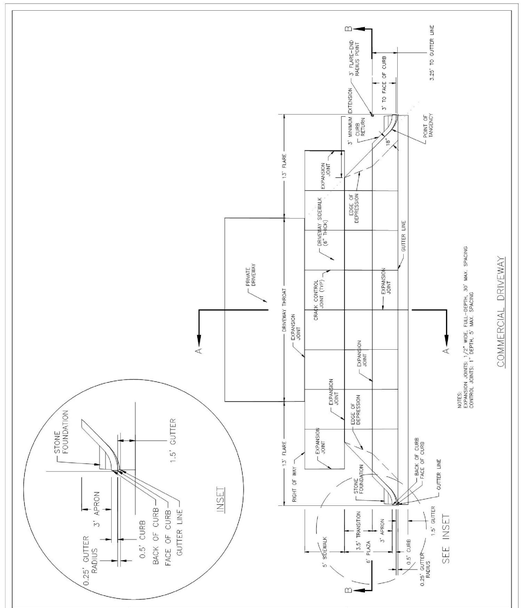
REV	DATE	DESCRIPTION	
B	5/17/18	RELEASED FOR 2nd TRC REVIEW	NAA
A	2/1/18	RELEASED FOR NODEQ STORMWATER PERMITTING	JRC

OWNER:
Glen Oak Farm Holdings,LLC
7102 Three Chopt Rd.
Richmond, VA 23226

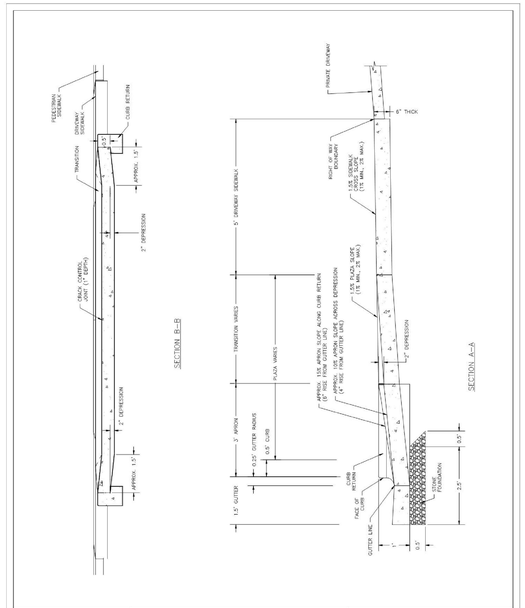
NORTH CAROLINA PROFESSIONAL SEAL 033196 ENGINEER
2/1/2018

APPROVED:	JP	PROJECT:	960-27
CHECKED:	FB	SCALE:	AS SHOWN
DESIGNED:	NA	RELEASE:	

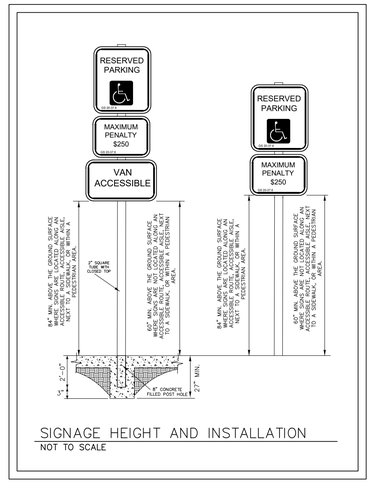
SHEET
GP-01



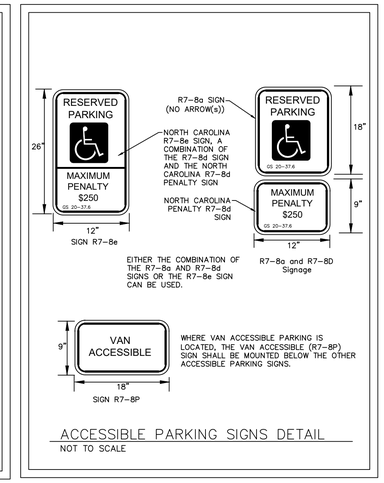
DATE: JUNE 1, 2015	STANDARD DETAIL	CITY OF WILMINGTON NORTH CAROLINA
DRAWN BY JSR	COMMERCIAL DRIVEWAY PLAN	CITY OF WILMINGTON ENGINEERING PO BOX 1810 WILMINGTON N.C. 28402 (910) 341-7807
CHECKED BY D.E.C., P.E.	1 of 2	SD 3-03.3
SCALE NOT TO SCALE		



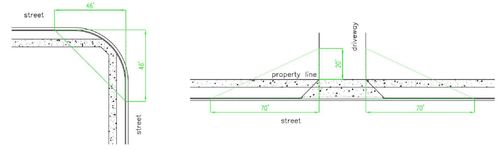
DATE: JUNE 1, 2015	STANDARD DETAIL	CITY OF WILMINGTON NORTH CAROLINA
DRAWN BY JSR	COMMERCIAL DRIVEWAY SECTIONS	CITY OF WILMINGTON ENGINEERING PO BOX 1810 WILMINGTON N.C. 28402 (910) 341-7807
CHECKED BY D.E.C., P.E.	2 of 2	SD 3-03.4
SCALE NOT TO SCALE		



SIGNAGE HEIGHT AND INSTALLATION
NOT TO SCALE



ACCESSIBLE PARKING SIGNS DETAIL
NOT TO SCALE



CITY OF WILMINGTON SIGHT DISTANCE TRIANGLES

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

CITY OF WILMINGTON NORTH CAROLINA
Approved Construction Plan
Name Date
Planning
Traffic
Fire

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

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Wilmington, NC 28402 Fax: 910-254-0502
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REEDS PARKING FACILITY

CONSTRUCTION DETAILS

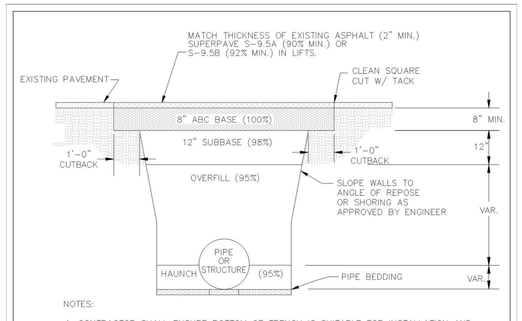
REV	DESCRIPTION	DATE	
B	RELEASED FOR 2nd TRC REVIEW	5/17/18	NAA
A	RELEASED FOR NCDEQ STORMWATER PERMITTING	2/1/18	JRC
			INIT

OWNER:
Glen Oak Farm Holdings,LLC
7102 Three Chopt Rd.
Richmond, VA 23226

NORTH CAROLINA PROFESSIONAL SEAL 033196 ENGINEER
2/1/2018

APPROVED:	JP	PROJECT:	960-27
CHECKED:	FB	SCALE:	AS SHOWN
DESIGNED:	NA	RELEASE:	

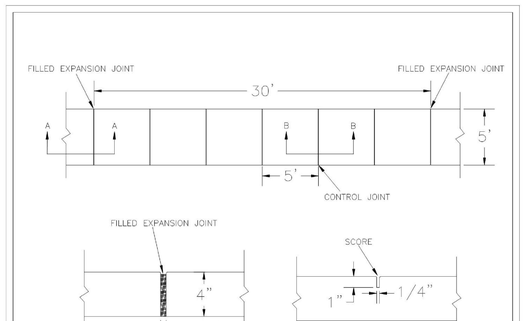
SHEET
SP-D1



NOTES:

1. CONTRACTOR SHALL ENSURE BOTTOM OF TRENCH IS SUITABLE FOR INSTALLATION AND DOES NOT REQUIRE FOUNDATION CONDITIONING STONE.
2. FILL SHALL BE SUITABLE MATERIAL THAT IS FREE FROM HEAVY CLAY, GUMBOS, DEBRIS, ORGANICS AND LITTLE TO NO EXCESSIVE MOISTURE.
3. SELECT BACKFILL MAY BE SUBSTITUTED OR REQUIRED BY CITY TO ACHIEVE COMPACTION, (I.E. #57, ABC, CRUSHED LIMESTONE, CLEAN SAND, FLOWABLE FILL, ETC).
4. SOIL SHALL BE INSTALLED IN 6"-8" LIFTS AND COMPACTED BY A MECHANIZED TAMPER (I.E JUMPING JACK), HOWEVER, VIBRATORY ROLLERS > 18" WIDTH MAY BE USED FOR LARGER EXCAVATIONS. THE PLATE TAMP METHOD SHALL NOT BE USED.
5. ALL APPROVED CASTINGS SHALL BE SET FLUSH TO GRADE AND SUPPORTED IF APPLICABLE.
6. COMPACT MATERIALS TO MINIMUM % DENSITY SHOWN IN DIAGRAM AS DETERMINED BY THE STANDARD PROCTOR METHOD ASTM D-698-A FOR SOILS; AND ASTM D-698-C FOR ABC STONE; AND BY NUCLEAR GAUGE OR CORE SAMPLE FOR ASPHALT.
7. CUTBACKS OF ASPHALT SHALL BE PREPARED ON EDGE OF EXCAVATION OVER TOP OF UNDISTURBED SOIL.

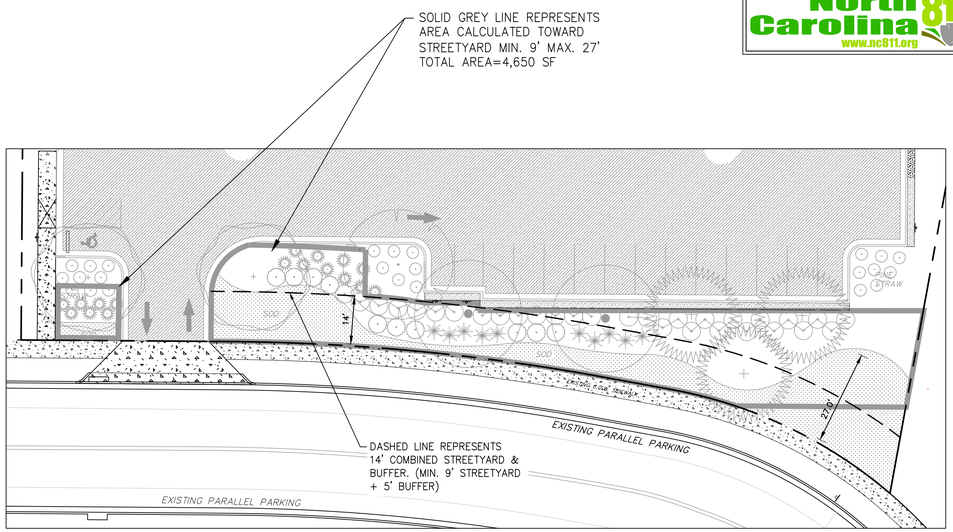
DATE: MAY, 2013	STANDARD DETAIL	CITY OF WILMINGTON NORTH CAROLINA
DRAWN BY JSR	PAVEMENT REPAIRS- UTILITY CUTS	CITY OF WILMINGTON ENGINEERING, OFFICE 212 OPERATIONS CENTER DRIVE WILMINGTON N.C. 28412 (910) 341-7807
CHECKED BY D.E.C., P.E.		SD 1-05
SCALE NOT TO SCALE		



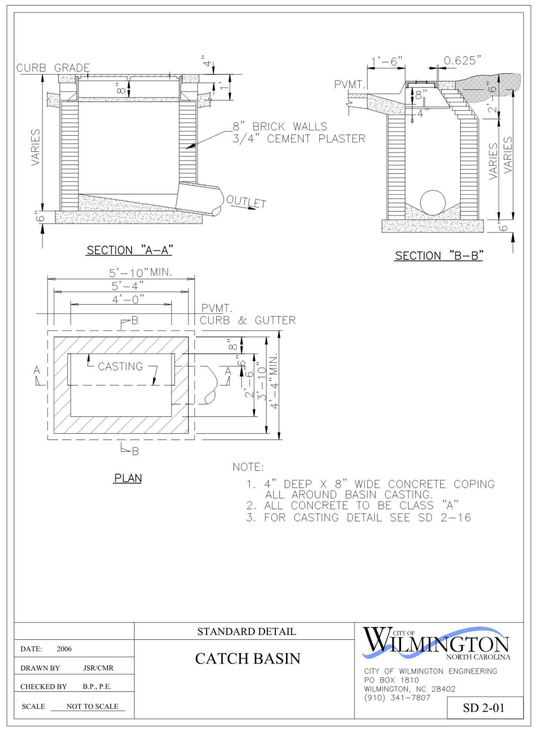
NOTES:

1. JOINT MATERIAL TO COMPLY WITH CURRENT NCDOT STANDARDS.
2. SANITARY SEWER CLEAN-OUTS, WATER METERS, MANHOLES, AND VALVE LIDS TO BE LOCATED OUTSIDE SIDEWALK WHERE FEASIBLE.
3. MINIMUM SIDEWALK WIDTH TO BE 6' MINIMUM IF PLACED AT BACK OF CURB.
4. CONCRETE FOR ALL SIDEWALKS (EXCEPT ANY PORTION CONTAIN WITHIN A DRIVEWAY APRON) SHALL BE CLASS "A" – 3,000 PSI.
5. MINIMUM REPLACEMENT FOR REPAIRS IS A 5' X 5' PANEL
6. 4" STONE BASE MAY BE REQUIRED FOR POOR SOIL CONDITIONS
7. MINIMUM DEPTH FOR TUNNELING BELOW SIDEWALK IS 12"
8. MAX ADJACENT GROUND SLOPE WITHOUT RAILING IS 2:1
9. MIN GRADE FOR PROPER DRAINAGE IS 1% IN AT LEAST 1 DIRECTION. MAX CROSS SLOPE IS 2%. MAX LONGITUDINAL SLOPE IS 8.3%, 10% IF LIMITED BY EXISTING CONDITIONS, OR NO GREATER THAN THE SLOPE OF THE EXISTING ADJACENT ROAD.

DATE: OCTOBER, 2010	STANDARD DETAIL	CITY OF WILMINGTON NORTH CAROLINA
DRAWN: PB/JSR	SIDEWALK	CITY OF WILMINGTON ENGINEERING PO BOX 1810 WILMINGTON N.C. 28402 (910) 341-7807
CHECKED: DEC		SD 3-10
SCALE NOT TO SCALE		



STREETYARD + PARKING SCREENING
1"=20'-0"



DATE: 2006	STANDARD DETAIL
DRAWN BY JSR/CMR	CATCH BASIN
CHECKED BY B.P., P.E.	
SCALE NOT TO SCALE	

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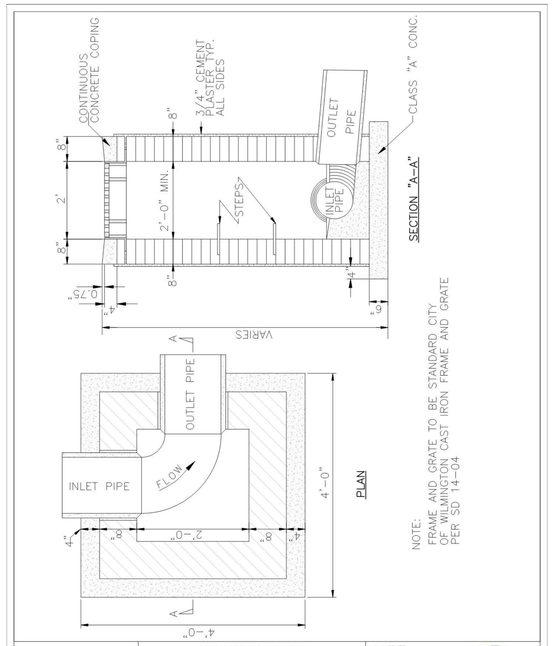
CITY OF WILMINGTON ENGINEERING
PO BOX 1810
WILMINGTON, NC 28402
(910) 341-7807

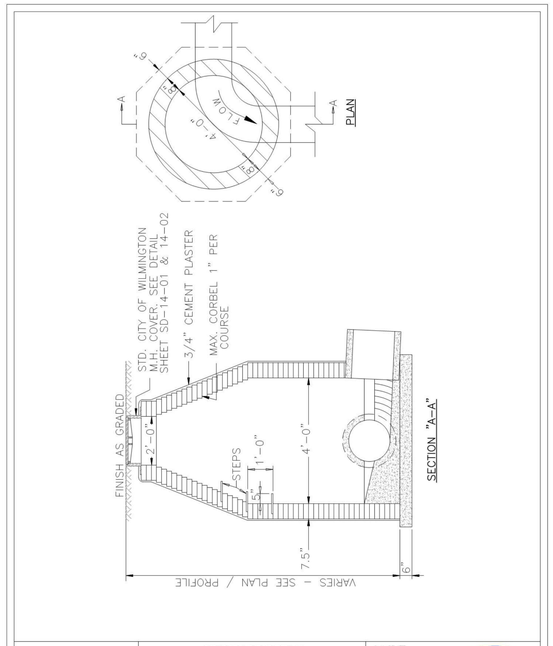
SD 2-01



DATE: 2001	STANDARD DETAIL
DRAWN BY JSR	GRILL BASIN
CHECKED BY B.P., P.E.	
SCALE NOT TO SCALE	

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

SD 2-02



DATE: 2001	STANDARD DETAIL
DRAWN BY JSR/CMR	GUIDELINES FOR STORM DRAIN MANHOLE
CHECKED BY B.P., P.E.	
SCALE NOT TO SCALE	

CITY OF WILMINGTON NORTH CAROLINA
CITY OF WILMINGTON ENGINEERING
PO BOX 1810
WILMINGTON, NC 28402
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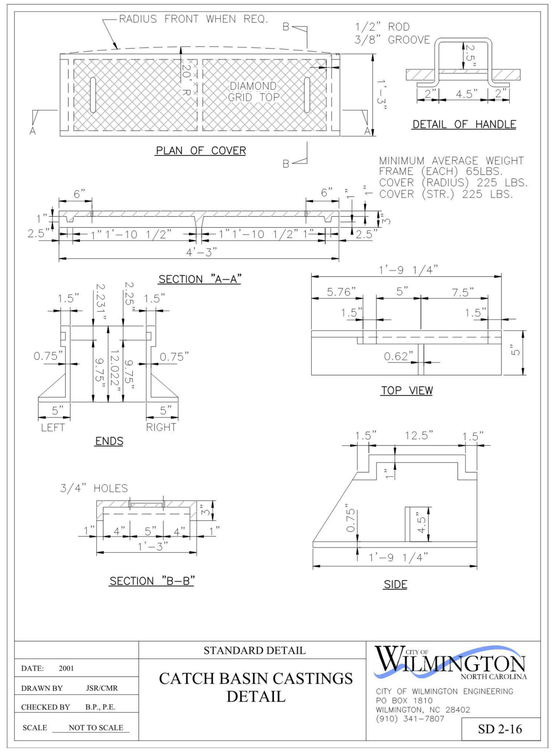
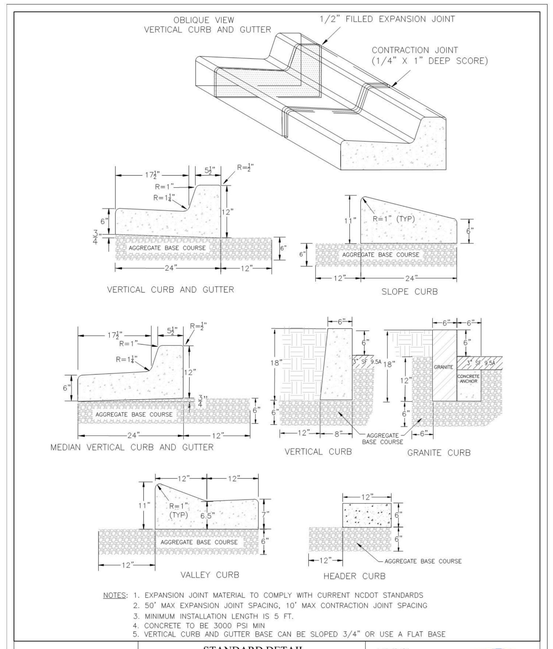
SD 2-03



DATE: 2001	STANDARD DETAIL
DRAWN BY JSR/CMR	CATCH BASIN CASTINGS DETAIL
CHECKED BY B.P., P.E.	
SCALE NOT TO SCALE	

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

SD 2-16



DATE: AUGUST, 2011	STANDARD DETAIL
DRAWN: PB/JSR	CURBING
CHECKED: DEC	
SCALE NOT TO SCALE	

CITY OF WILMINGTON NORTH CAROLINA
CITY OF WILMINGTON ENGINEERING
PO BOX 1810
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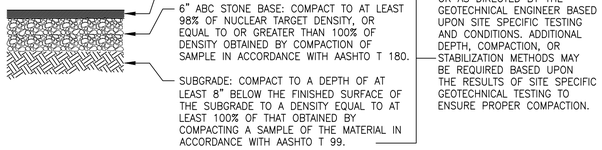
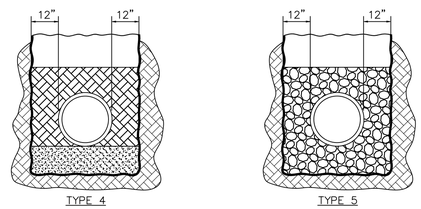
SD 3-11



PARKING LOT PAVEMENT SECTION
NOT TO SCALE



TYPE 4

PIPE BEDDED IN SAND, GRAVEL, OR CRUSHED STONE TO A DEPTH OF 1/8 PIPE DIAMETER, 4" MINIMUM WITH BACKFILL COMPACTED TO TOP OF PIPE. (APPROXIMATELY 80 PERCENT STANDARD PROCTOR, AASHTO T-99)

TYPE 5

PIPE BEDDED TO IT'S CENTERLINE IN COMPACTED GRANULAR MATERIAL, 4" MINIMUM UNDER PIPE. COMPACTED GRANULAR OR SELECT MATERIAL TO TOP OF PIPE. (APPROXIMATELY 90 PERCENT STANDARD PROCTOR, AASTO T-99) (SELECT MATERIAL IS DEFINED AS NATIVE SOIL EXCAVATED FROM THE TRENCH, FREE OF ROCKS, ORGANIC MATERIAL, FOREIGN MATERIALS AND FROZEN EARTH)

PIPE INSTALLATION DETAIL
NOT TO SCALE

ISSUED FOR AGENCY REVIEW ONLY

NOT RELEASED FOR CONSTRUCTION

BEFORE YOU DIG, CALL
North Carolina 811
www.nc811.org

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CITY OF WILMINGTON NORTH CAROLINA
Approved Construction Plan

Name	Date
Planning	
Traffic	
Fire	

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

Coastal Land Design, PLLC
Civil Engineering / Landscape Architecture
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NCBELS Firm License P-0369
P.O.Box 1172
Wilmington, NC 28402
Phone: 910-254-9333
Fax: 910-254-0502
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REEDS PARKING FACILITY

CONSTRUCTION DETAILS

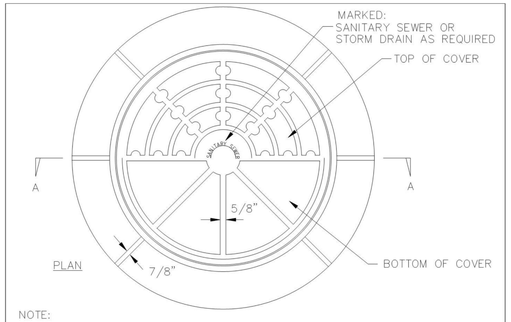
REV	DATE	DESCRIPTION	JRC	INIT
B	5/17/18	RELEASED FOR 2nd TRC REVIEW	NAA	
A	2/1/18	RELEASED FOR NCDEQ STORMWATER PERMITTING		

OWNER:
Glen Oak Farm Holdings,LLC
7102 Three Chopt Rd.
Richmond, VA 23226

NORTH CAROLINA PROFESSIONAL SEAL 033196 ENGINEER
2/1/2018

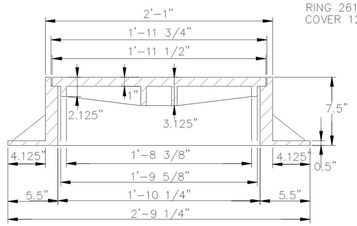
APPROVED: JP	PROJECT: 960-27		
CHECKED: FB	SCALE: AS SHOWN		
DESIGNED: NA	RELEASE:		

SHEET
SP-D2



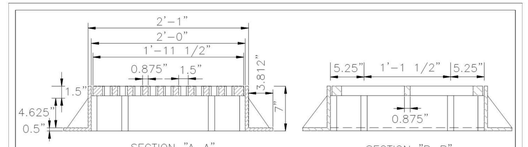
NOTE:
RING & COVER CONTACT SURFACES SHALL BE MACHINED TO INSURE EVEN BEARING OF COVER AND RING

MINIMUM WEIGHTS:
RING 261 LBS.
COVER 120 LBS.

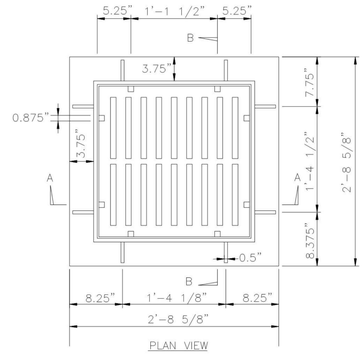


SECTION "A-A"

DATE: 2001	STANDARD DETAIL	CITY OF WILMINGTON NORTH CAROLINA
DRAWN BY JSR/CMR	STANDARD MAN-HOLE RING AND COVER	CITY OF WILMINGTON ENGINEERING PO BOX 1810 WILMINGTON, NC 28402 (910) 341-7807
CHECKED BY B.P., P.E.		
SCALE NOT TO SCALE		SD 14-02



MINIMUM AVERAGE WEIGHT
FRAME 195 LBS.
GRATE 145 LBS.



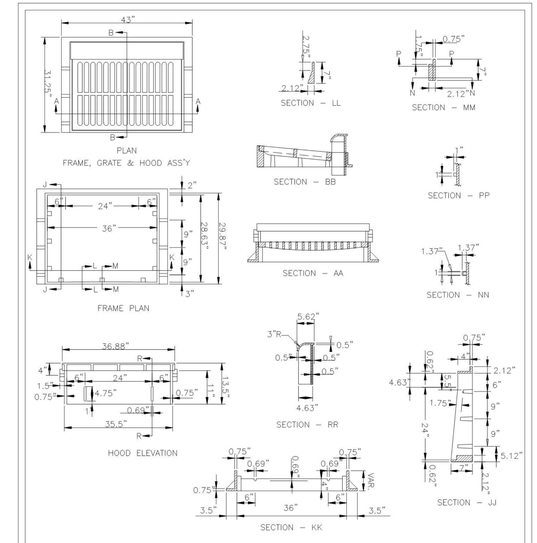
PLAN VIEW

DATE: 2001	STANDARD DETAIL	CITY OF WILMINGTON NORTH CAROLINA
DRAWN BY JSR/CMR	GRILL BASIN CASTINGS	CITY OF WILMINGTON ENGINEERING PO BOX 1810 WILMINGTON, NC 28402 (910) 341-7807
CHECKED BY B.P., P.E.		
SCALE NOT TO SCALE		SD 14-04

GENERAL NOTES:

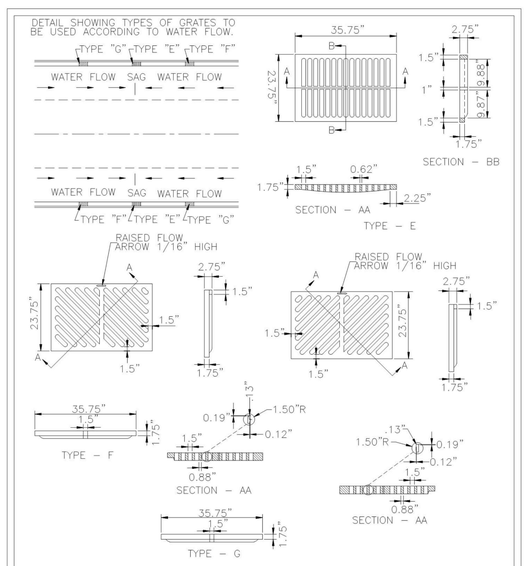
* USE 4000 PSI CONCRETE, PROVIDE FOR H-20 TRAFFIC LOADING.
* PROVIDE ALL REINFORCING STEEL WHICH MEETS ASTM A615 FOR GRADE 60 AND WELDED WIRE FAVRIC CONFORMING TO ASTM A185,
* PLACE LIFT HOLES OR PINS IN ACCORDANCE WITH OSHA STANDARD 1926.704
* PROVIDE FORMED OPENINGS, FOR PIPE TO PROVIDE REQUIRED SIZE AND LOCATION. SEAL OPENINGS WITH HYDRAULIC CEMENT.
* ALL ELEMENTS PRECAST TO MEET ASTM C913.
* SET ON 6" WASHED STONE
* FRAME AND GRATE HEIGHT MAY BE ADJUSTED WITH BRICK.
* PROVIDE PRECAST STURCTURES OVER 4'-0" IN DEPTH WITH STEPS/LADDER INSTALLED IN ACCORDANCE WITH ASHA STANDARD 1910.27 AND AS FIELD CONDITIONS DICTATE.
* WELDED WIRE FABRIC MAY BE SUBSTITUTED FOR REBAR AS LONG AS THE SAME AREA OF STEEL IS PROVIDED.
* SEAL JOINTS WITH A FLEXIBLE BUTYL RUBBER BASE CONFORMING TO FEDERAL SPECIFICATION SS-S-21A, AASHTO M-19B, TYPE B - BUTYL RUBBER.
* USE FRAME AND GRATE AS PER SD-19.
* GROUT INVERT TO PROVIDE SMOOTH FLOW

DATE: 2001	STANDARD DETAIL	CITY OF WILMINGTON NORTH CAROLINA
DRAWN BY JSR/CMR	PRECAST DRAINAGE STRUCTURE GENERAL NOTES	CITY OF WILMINGTON ENGINEERING PO BOX 1810 WILMINGTON, NC 28402 (910) 341-7807
CHECKED BY B.P., P.E.		
SCALE NOT TO SCALE		SD 2-24a

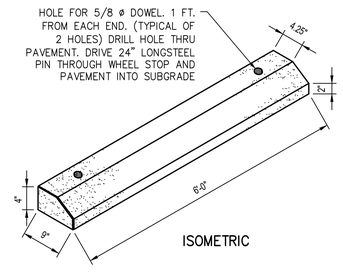


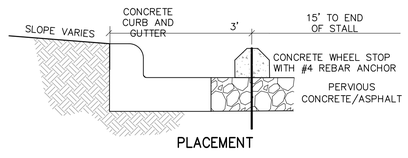
NOTES: 1) USE TYPE "E","F",& "G" GRATE UNLESS OTHERWISE INDICATED
2) TOP OF HOOD CASTING SHALL HAVE RAISED LETTERS WHICH SAY: "KEEP STORM DRAIN CLEAN! DRAINS TO CREEK" PROVIDE PICTURE OF FISH BETWEEN TWO STATEMENTS.

DATE: 2001	STANDARD DETAIL	CITY OF WILMINGTON NORTH CAROLINA
DRAWN BY JSR/CMR	CATCH BASIN CASTING FOR 30" HOOD AND GRATE	CITY OF WILMINGTON ENGINEERING PO BOX 1810 WILMINGTON, NC 28402 (910) 341-7807
CHECKED BY B.P., P.E.		
SCALE NOT TO SCALE		SD 2-19



DATE: 2003	STANDARD DETAIL	CITY OF WILMINGTON NORTH CAROLINA
DRAWN BY JSR/CMR	CATCH BASIN GRATE FOR 30" HOOD AND GRATE	CITY OF WILMINGTON ENGINEERING PO BOX 1810 WILMINGTON, NC 28402 (910) 341-7807
CHECKED BY B.P., P.E.		
SCALE NOT TO SCALE		SD 2-20





CONCRETE WHEEL STOP DETAIL
NOT TO SCALE

GENERAL NOTES:

1. USE 4,000 PSI CONCRETE. PROVIDE FOR H-20 LOADING.
2. PROVIDE ALL REINFORCED STEEL WHICH MEETS ASTM A615 FOR GRADE 60 AND WELDED WIRE FABRIC CONFORMING TO ASTM A185.
3. PLACE LIFT HOLES OR PINS IN ACCORDANCE WITH OSHA STANDARD 1926.704.
4. PROVIDE FORMED OPENINGS FOR PIPE TO PROVIDE REQUIRED SIZE AND LOCATION. SEAL OPENINGS WITH HYDRAULIC CEMENT.
5. ALL ELEMENTS PRECAST TO MEET ASTM C913.
6. SET ON 6-INCH WASHED STONE
7. FRAME AND GRATE HEIGHT MAY BE ADJUSTED WITH BRICK.
8. PROVIDE PRECAST STRUCTURES OVER 4'-0" IN DEPTH WITH STEPS/LADDER INSTALLED IN ACCORDANCE WITH OSHA STANDARD 1910.27 AND AS FIELD CONDITIONS DICTATE.
9. WELDED WIRE FABRIC MAY BE SUBSITUTED FOR REBAR AS LONG AS THE SAME AREA OF STEEL IS PROVIDED.
10. SEAL JOINTS WITH A FLEXIBLE BUTYL RUBBER BASE CONFORMING TO FEDERAL SPECIFICATION SS-S-21A, AASHTO M-19B, TYPE B - BUTYL RUBBER.
11. FRAME AND GRATE AS PER SD-19.
12. GROUT INVERT TO PROVIDE SMOOTH FLOW.

PRECAST DRAINAGE STRUCTURES
GENERAL NOTES
CITY OF WILMINGTON STANDARD DETAILS SD-24a

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Approved Construction Plan
Name Date
Planning
Traffic
Fire

Public Services • Engineering Division
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Date: _____ Permit #_____
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Wilmington, NC 28402 Fax: 910-254-0502
www.cldeng.com

REEDS PARKING FACILITY

CONSTRUCTION DETAILS

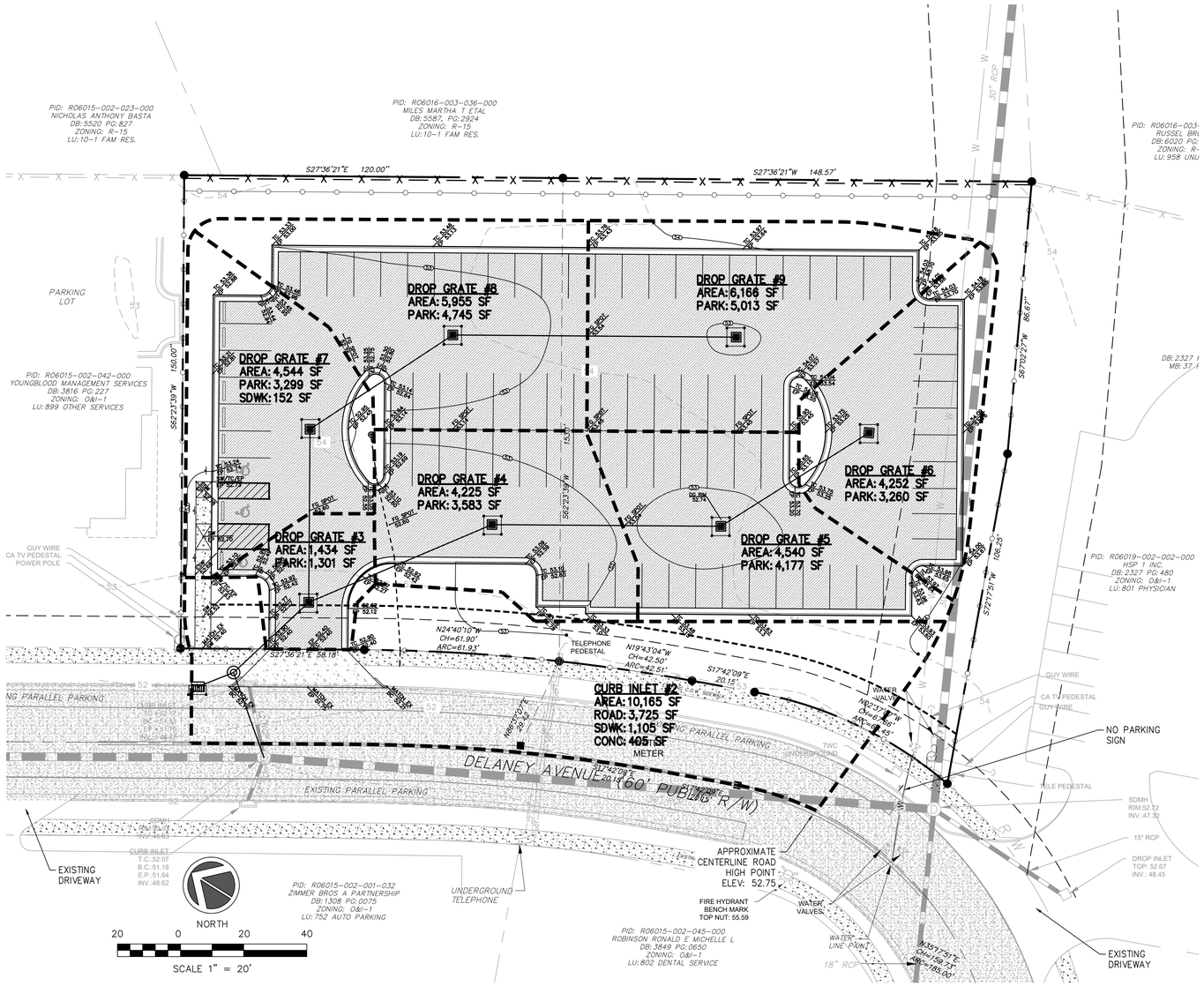
REV	DESCRIPTION	DATE	
B	RELEASED FOR 2nd TRC REVIEW	5/17/18	NAA
A	RELEASED FOR NODEQ STORMWATER PERMITTING	2/1/18	JRC
			INIT

OWNER:
Glen Oak Farm Holdings,LLC
7102 Three Chopt Rd.
Richmond, VA 23226

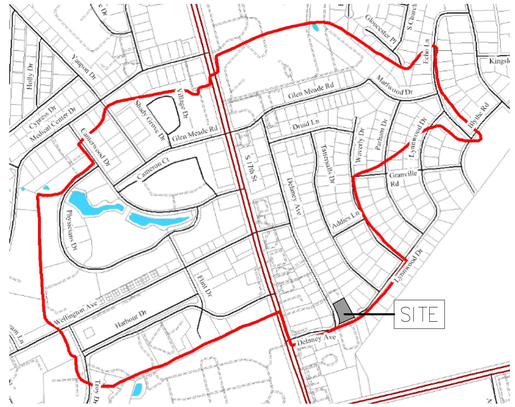
NORTH CAROLINA PROFESSIONAL SEAL 033196 ENGINEER JACQUELINE R. CRAMME
2/1/2018

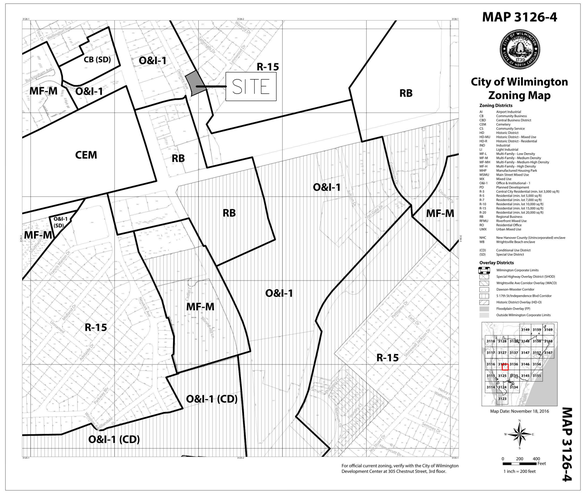
APPROVED:	JP	PROJECT:	960-27
CHECKED:	FB	SCALE:	AS SHOWN
DESIGNED:	NA	RELEASE:	

SHEET
SP-D3



SILVERSTREAM REGIONAL WATER QUALITY FACILITY
OVERALL DRAINAGE AREA MAP
(PROVIDED BY THE CITY OF WILMINGTON)





STATE STORMWATER MANAGEMENT SYSTEM
PERMIT NO. SW8 921002 MODIFICATION

PROJECT NAME:	SILVERSTREAM REGIONAL WATER QUALITY FACILITY	
PROJECT NUMBER:	921002	
LOCATION:	NEW HANOVER COUNTY	
APPLICANT:	CITTY OF WILMINGTON	
MAILING ADDRESS:	CITY OF WILMINGTON POST OFFICE BOX 1810 WILMINGTON, NORTH CAROLINA 28402	
SUBMITTAL DATE:	OCTOBER 2, 1992	
WATER BODY RECEIVING RUNOFF:	GREENFIELD LAKE	
CLASSIFICATION OF WATER BODY:	"C Sw"	
	UPPER POND	LOWER POND
TOTAL IMPERVIOUS SURFACES ALLOWED:	92.85 ACRES	23.38 ACRES
R-15 35% MF-M 60% O&I 75% CB/RB 90%		

ISSUED FOR AGENCY REVIEW ONLY

NOT RELEASED FOR CONSTRUCTION

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WILMINGTON NORTH CAROLINA
Approved Construction Plan
Name Date
Planning _____
Traffic _____
Fire _____

CITY OF WILMINGTON NORTH CAROLINA
Public Services • Engineering Division
APPROVED STORMWATER MANAGEMENT PLAN
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Wilmington, NC 28402 Fax: 910-254-0502
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REEDS PARKING FACILITY

DRAINAGE AREA MAPS

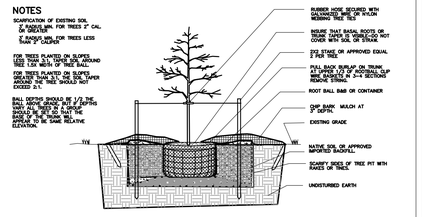
REV	DESCRIPTION	DATE	
B	RELEASED FOR 2nd TRC REVIEW	5/17/18	NAA
A	RELEASED FOR NCDEQ STORMWATER PERMITTING	2/1/18	JRC
			INIT

OWNER:
Glen Oak Farm Holdings,LLC
7102 Three Chopt Rd.
Richmond, VA 23226

NORTH CAROLINA PROFESSIONAL SEAL 033196 ENGINEER JAMES R. MINE
2/1/2018

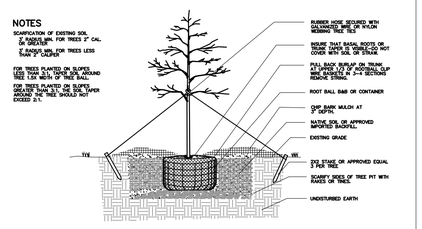
APPROVED:	JP	PROJECT:	960-27
CHECKED:	FB	SCALE:	AS SHOWN
DESIGNED:	NA	RELEASE:	

SHEET
SW-01



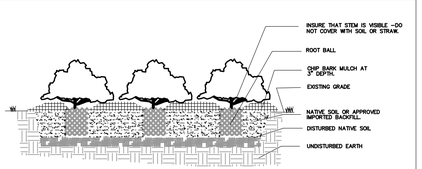
PLANTING DETAIL
SMALL TREE
1" – 2.5" CALIPER

NTS



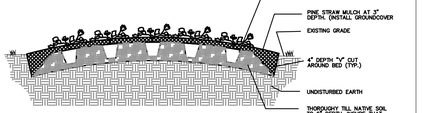
PLANTING DETAIL
LARGE TREE
2.5" CALIPER OR LARGER

NTS



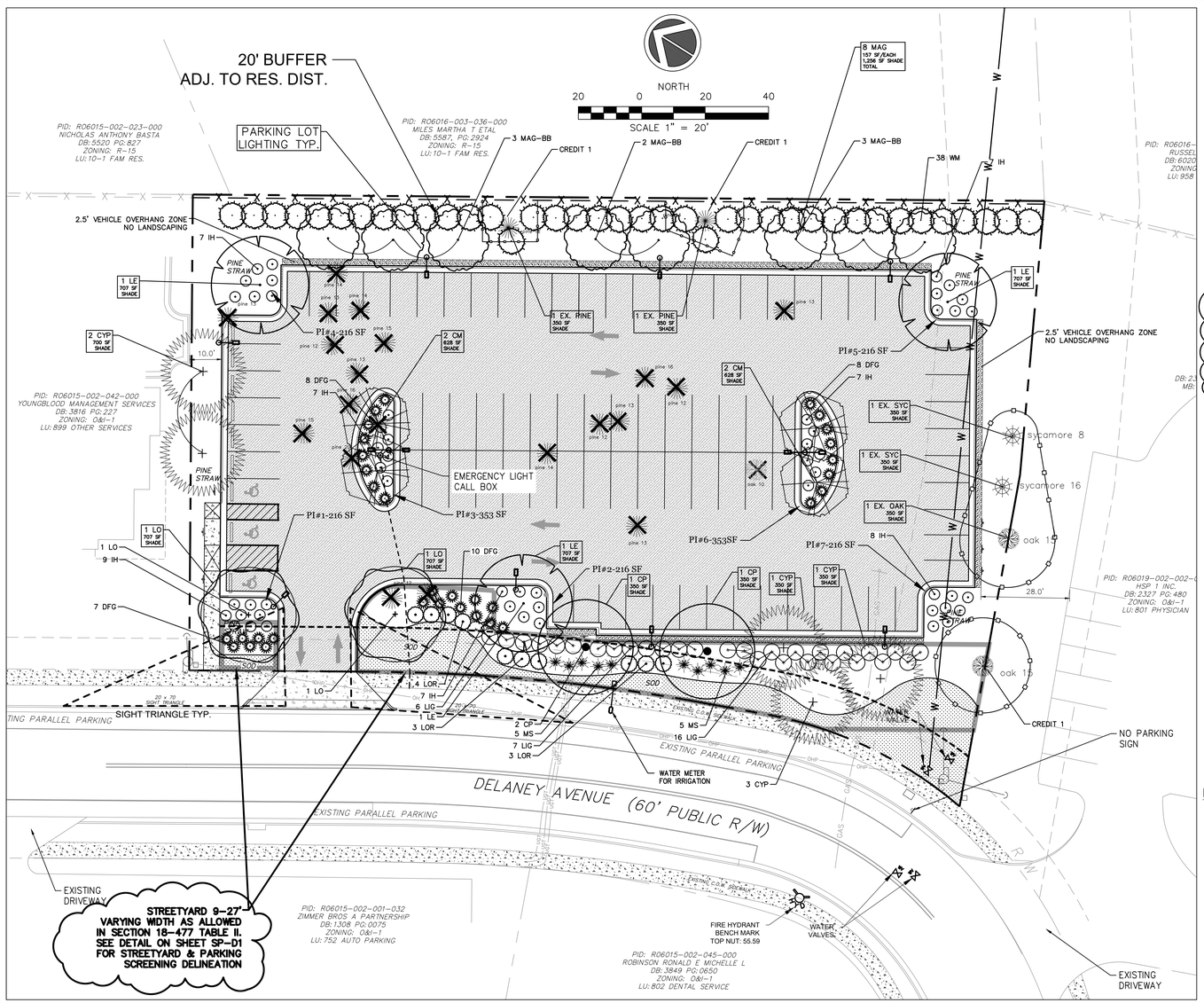
PLANTING DETAIL
SHRUB

NTS



PLANTING DETAIL
GROUNDCOVER

NTS



STREET YARD CALCULATIONS–Sec.18–477

STREET YARD (S.Y.) = 251 LF – 24 LF (DRIVEWAY) = 227 LF
REQUIRED S.Y. AREA = 4,086 [227 LF x 18 (MULTIPLIER)]
PROVIDED S.Y. AREA = 4,372

REQUIRED TREES @ 1/600 SF = 7 TREES
PROPOSED TREES = 6 NEW TREES, 1 EXISTING OAK

REQUIRED SHRUBS @ 6/600 SF = 41 SHRUBS
PROPOSED SHRUBS = 53

SIDEWALK IS NOT LOCATED IN AREA COUNTED AS STREETYARD.

ALL PROPOSED VEGETATION WITHIN SITE TRIANGLES SHALL NOT INTERFERE WITH CLEAR VISUAL SIGHT LINES FROM 30" – 10' [SEC.18–566 COW]

PARKING AREA SCREENING–Sec.18–483

PARKING WITHIN 50' OF A R.O.W. REQUIRES A LOW SCREEN MIN. 3' HIGH AND 5' WIDE
* SCREENING INCLUDED IN STREETYARD PLANTING

PARKING AREA SHADING–Sec.18–481

30% SHADE REQ'D AT MATURITY 25,396 SF
PARKING LOT AREA=..... 7,618 SF
SHADING AREA REQ'D=.....
5 SHADE TREES W/IN ISLANDS @ 707 SF = 3,535 SF
4 SHADE TREES W/IN ISLANDS @ 314 SF = 1,256
11 LARGE SHADE TREES ALONG PERIM. @ 350 SF = 3,850 SF
8 SMALL SHADE TREES ALONG PERIM. @ 157 SF = 1,256 SF

SHADING AREA PROVIDED=..... 9,897 SF

BUFFER YARD–Sec.18–503

269 LF OF PROPERTY ADJACENT TO R-15
REQUIRED TREES = 9 TREES (1 EVERY 30 LF)
PROVIDED TREES = 9 TREES (7 NEW & 2 EXISTING CREDIT)
100% OPAQUE SHRUB SCREEN MIN 3' HT. AT PLANTING

COM. PARKING LOT–Sec.18–258

(a) If outdoor, a three–foot high buffer with a minimum depth of ten (10) feet shall be provided in the front yard to screen parking areas from the road. (b) A lighting plan shall be provided showing all outdoor lighting fixtures, type and wattage. Glare shall be minimized through the use of directional fixtures. (c) Access shall be prohibited through residential areas. (d) The street yard regulations defined in the CB zoning district apply. (e) Six (6) percent of the gross parcel area shall be landscaped to the following standards: (1) Landscaped areas shall be evenly located around the perimeter of the parcel. (2) One (1) tree and six (6) shrubs shall be planted for every fifteen (15) parking spaces. (3) Fifty (50) percent of trees shall be of a shade/canopy variety as defined in this chapter.

3' HIGH x 10' WIDE BUFFER INCLUDED IN STREETYARD

6% GROSS PARCEL AREA = 2,456 SF (40,946 * .06)
LANDSCAPED AREA REQ: 2,456 SF
LANDSCAPED AREA PROV: 6,164 SF
(4,372 SF. S.Y. AREA + 1,792 SF ISLANDS)

1 TREE & 6 SHRUBS EVERY 15 SPACES
87/15 = 5.8
REQ'D: 6 TREES – 36 SHRUBS
PROV: 24 TREES – 167 SHRUBS

LANDSCAPE NOTES

1. ALL LANDSCAPE MATERIAL MUST BE INSTALLED PRIOR TO FINAL BUILDING INSPECTION
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION AND/OR RELOCATION OF EXISTING UTILITIES IN COORDINATION WITH THE APPROPRIATE UTILITY AGENCY OR COMPANY.
3. CONTRACTOR SHALL NOT SUBSTITUTE FOR ANY OF THE PLANT MATERIAL THAT IS SPECIFIED WITHOUT PRIOR APPROVAL OF THE LANDSCAPE ARCHITECT.
4. VERIFICATION OF TOTAL QUANTITIES AS SHOWN IN THE PLANT LIST SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
5. MULCH UNDER ALL PROPOSED TREES AND SHRUBS WITH WOOD CHIPS AT A 3"–4" DEPTH OR APPROVED EQUAL.
6. PLANT SIZES INDICATED SPECIFY MINIMUM ALLOWABLE SIZES AT PLANTING. WHERE CONTAINER AND HT. SIZES ARE INDICATED FOR A SINGLE SPECIES, BOTH SIZE REQUIREMENTS MUST BE MET.
7. THERE SHALL BE AT LEAST A 3 FT. SEPARATION BETWEEN LANDSCAPED AREAS AND PARKING AREAS TO ALLOW VEHICLE OVERHANG WHEN PARKING BLOCKS ARE NOT USED.
8. ALL PLANTINGS USED TO SCREEN THE DRIVES AND PARKING AREAS FROM ADJOINING ROADWAYS WILL NEED TO BE A MINIMUM OF 24" HIGH AT TIME OF PLANTING.
9. ALL OTHER AREAS NOT BEING MULCHED TO BE SEEDED PER SEEDING SCHEDULE INCLUDED AS PART OF THE S&E PLANS.
10. THE OWNERS OF THE PROPERTY AND THEIR AGENTS, HEIRS, OR ASSIGNS SHALL BE RESPONSIBLE FOR THE INSTALLATION, PRESERVATION AND MAINTENANCE OF ALL PLANTING AND PHYSICAL FEATURES SHOWN ON THIS PLAN. THE OWNERS SHALL BE RESPONSIBLE FOR ANNUAL MAINTENANCE OF THE VEGETATION TO INCLUDE BUT NOT BE LIMITED TO:

A. **FERTILIZATION**
TREES SHRUBS AND GRASSED AREAS
BROADCAST A SLOW RELEASE FERTILIZER OVER THE MULCHED BEDS AT THE RECOMMENDED RATES AS SHOWN ON THE BAGS, ONCE MID–FEBRUARY AND ONCE MID–SEPTEMBER. THOROUGH WATERING IS REQUIRED UPON COMPLETION.

B. **PRUNNING WITHIN LIMITS**
PRUNING WHEN NECESSARY, WILL BE DONE TO MAINTAIN THEIR NORMAL GROWTH PATTERN AND TO REMOVE DEAD OR DISEASED PLANT MATERIAL. THERE SHALL BE NO TOPPING OF TREES.

C. **PEST CONTROL (OPTIONAL)**
WEED CONTROL TO BE PROVIDED EARY FEBRUARY, APRIL, JUNE, AUGUST AND OCTOBER IN THE SHRUB/TREE BEDS AND IN THE LAWN AREAS. INSECT DAMAGE SHALL BE TREATED WHEN NECESSARY TO PREVENT DAMAGE TO VEGETATION.

D. **MULCHING**
ALL AREAS AROUND THE BUILDING FOUNDATION AND SHRUB/TREE BEDS SHALL BE RE–MULCHED SO THAT THEY CONTAIN A MIN. DEPTH OF TWO INCHES AND A MAXIMUM DEPTH OF THREE INCHES. MULCH USED SHALL EQUAL WHICH WAS SUPPLIED DURING THE INSTALLATION OF THE PLANTS.

E. **MOWING**
MOWING SHALL BE DONE AS NECESSARY TO KEEP GRASS AT THE APPROPRIATE HEIGHT TO INSURE A HEALTHY GROWTH PATTERN.

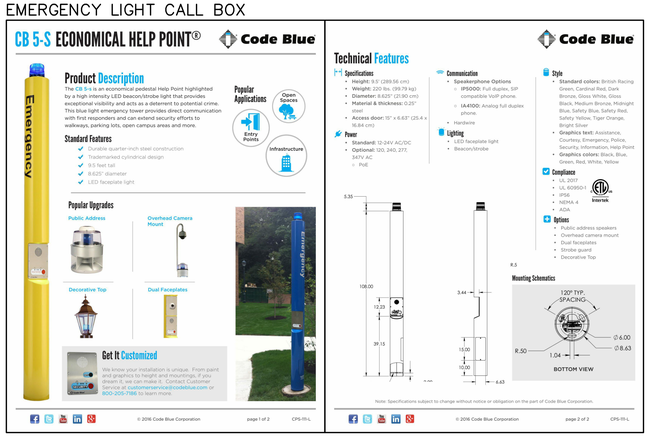
F. **PROTECTION OF ROOT ZONES**
TREE/SHRUB ROOT ZONES SHOULD BE PROTECTED FROM FUTURE CONSTRUCTION AND EQUIPMENT AS MUCH AS POSSIBLE TO AVOID DAMAGE OR COMPACTION TO THE ROOT AREAS.

G. **WATERING SCHEDULE FOR IRRIGATION SYSTEM**
MAINTENANCE SHALL INCLUDE A THOROUGH INITIAL WATERING WITH WEEKLY WATERINGS THEREAFTER FOR THE FIRST 30 DAYS. WATERINGS THEREAFTER BE ON AN AS NEEDED SCHEDULE PER LOCAL CONDITIONS.

H. **STAKE AT MIRE REMOVAL**
AT THE END OF THE FIRST YEAR ALL PLANT STAKING AND GUYING SYSTEMS SHALL BE REMOVED.

I. **PROTECTED TREE REGULATION**
PRIOR TO ANY CLEARING, GRADING OR CONSTRUCTION ACTIVITY, TREE PROTECTION FENCING WILL BE INSTALLED AROUND PROTECTED TREES OR GROVES OF TREES AND NO CONSTRUCTION WORKERS, TOOLS, MATERIALS OR VEHICLES ARE PERMITTED WITHIN THE TREE PROTECTION FENCING.

EMERGENCY LIGHT CALL BOX



LANDSCAPE SCHEDULE

SYMBOL	QUAN.	BOTANICAL NAME	COMMON NAME	CAL.	HT.	ROOT	REMARKS
		LARGE SHADE TREES					
LE	3	ULMUS PARVIFOLIA	LACEBARK ELM	2.5"		B&B	
CP	2	PISTACIA CHINENSIS	CHINESE PISTACHE	2.5"		B&B	
LO	2	QUERCUS VIRGINIANA	LIVE OAK	2.5"		B&B	
CYP	5	TAXODIUM DISTICHUM 'MICKELSON'	BALD CYPRESS SHAWNEE BRAVE	2.5"		B&B	
		SMALL SHADE TREES					
MAG–BB	8	MAGNOLIA GRANDIFLORA 'BRACKEN'S BROWN BEAUTY'	BRACKEN BROWN BEAUTY MAGNOLIA		8–10'	B&B	
CM	4	LAGERSTROEMIA INDICA X FAURIEI 'NATCHEZ'	NATCHEZ CRAPE MYRTLE		8–10'	B&B	
		SHRUBS					
L–RR	10	LOROPETALUM CHINENSE VAR. RUBRUM 'SPARKLING PLUM'	SPARKLING PLUM LORAPETALUM		3' MIN HT.	7 GAL.	5' O.C.
LR	30	LIGUSTRUM JAPONICUM 'RECURVIFOLIUM'	LIGUSTRUM RECURVIFOLIUM		3' MIN HT.	3 GAL.	5' O.C.
WM	38	MYRICA CERIFERA	WAX MYRTLE		3' MIN HT.		7' O.C.
DFG	33	PENNISETUM ALOPECUROIDES 'HAMELN'	DWARF FOUNTAIN GRASS			1 GAL.	
IH	52	RHAPHIOLEPIS UMBELLATA 'SNOW WHITE'	INDIAN HAWTHORNE SNOW WHITE DWARF			3 GAL.	
MS	10	MISCANTHUS SINENSIS 'GRACILLIMUS'	FOUNTAIN GRASS			3 GAL.	
		GROUNDCOVER					
SOD	2,735 SF	SOD	EMPIRE ZOYSIA				

LANDSCAPING PARKING ISLANDS

ISLAND	AREA (SF)	REQUIRED TREES	PROVIDED
1	216	1 canopy	1 canopy
2	216	1 canopy	1 canopy
3	356	2 small shade	2 small shade
4	216	1 canopy	1 canopy
5	216	1 canopy	1 canopy
6	356	2 small shade	2 small shade
7	216	1 canopy	1 canopy

BEFORE YOU DIG, CALL
North Carolina 811
www.nc811.org

NOT RELEASED FOR CONSTRUCTION

ISSUED FOR AGENCY REVIEW ONLY

CITY OF WILMINGTON NORTH CAROLINA
Approved Construction Plan
Name Date
Planning
Traffic
Fire

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

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

Coastal Land Design, PLLC
Civil Engineering / Landscape Architecture
Land Planning / Construction Management
NCBELS Firm License P-0369
P.O.Box 1172 Phone: 910-254-9333
Wilmington, NC 28402 Fax: 910-254-0502
www.cldeng.com

REEDS PARKING FACILITY

LANDSCAPE PLAN

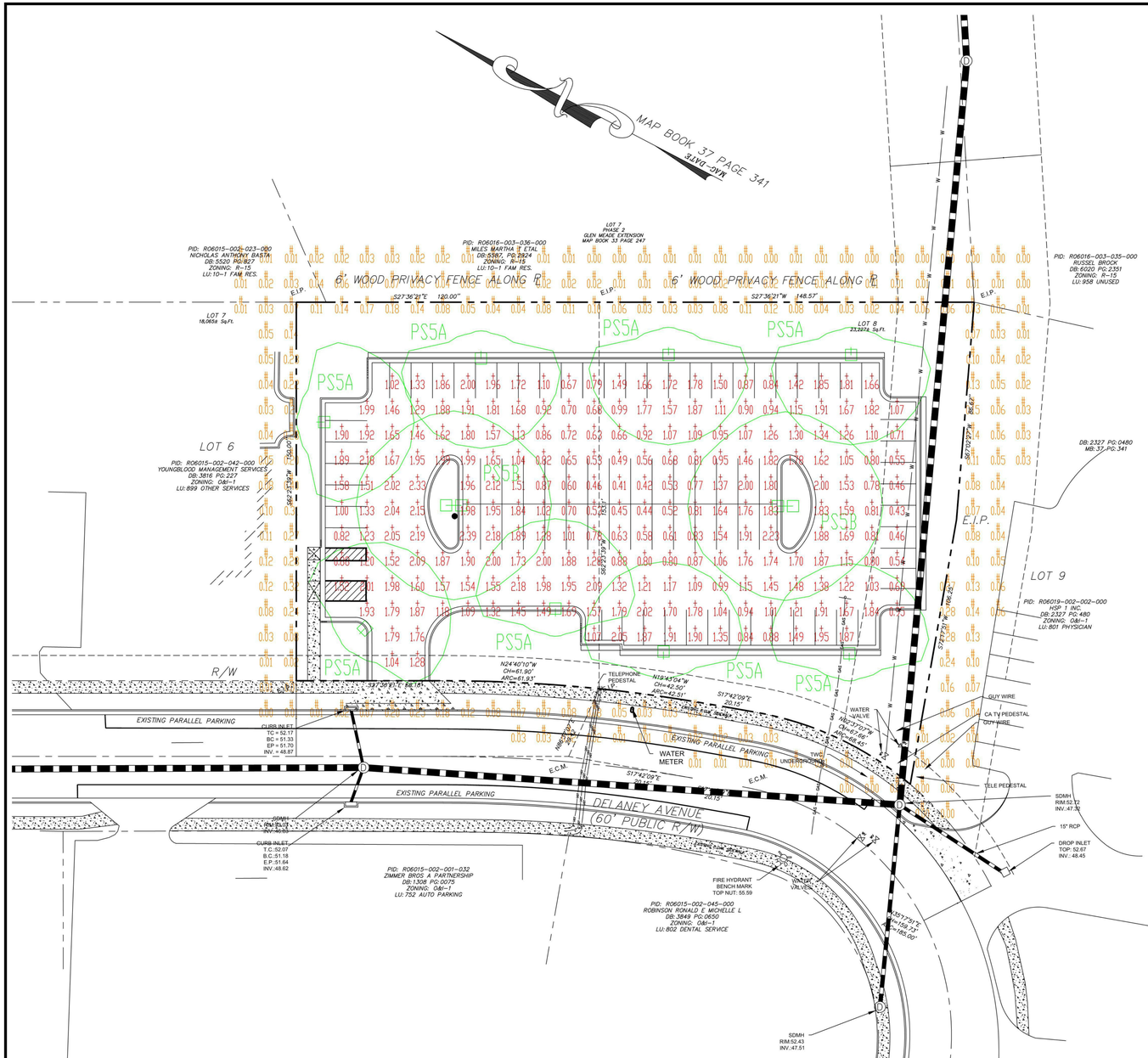
REV	DATE	DESCRIPTION	
B	5/17/18	RELEASED FOR 2nd TRC	NAA
A	2/1/18	RELEASED FOR NCDEQ STORMWATER PERMITTING	JRC
			INT

OWNER:
Glen Oak Farm Holdings,LLC
7102 Three Chopt Rd.
Richmond, VA 23226

NORTH CAROLINA LANDSCAPE ARCHITECT SEAL 390 FRANK BRAXTON
2/1/2018

APPROVED:	JP	PROJECT:	960-27
CHECKED:	FB	SCALE:	AS SHOWN
DESIGNED:	NA	RELEASE:	

SHEET
LA-01

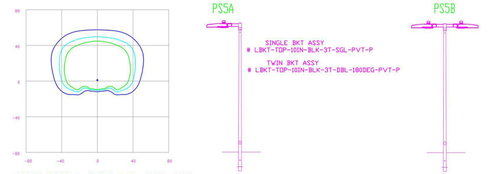


ISOFOOTCANDLE CURVES

FIXTURE: PEDESTRIAN LED
MOUNTING HEIGHT: 16 FT.
LIGHT SOURCE: 50W LED'S, 4000K (CANB)
PATTERN TYPE IV, Bi-US-Gtzero light at or above 90 degrees

POLE ASSY # LPOLE-DB-FG-20FT-BLK-PVT-P
ASSY # LFIX-SBK-LED-50-BLK-IV-MULTIV-PVT-P

NOTE: THE FOOTCANDLE READINGS BELOW ARE MAINTAINED AND HAVE BEEN DEPRECIATED FOR LAMP LUMEN DEPRECIATION AND LUMINAIRE DIRT DEPRECIATION FOR INITIAL FOOTCANDLE; DIVIDE THE READINGS BELOW BY .85.



LEGEND <OUTER to INNER> 0.100 , 0.200 , 0.300

CALCULATION SUMMARY

AREA NAME	DIMENSIONS	GRID / TYPE	# PTS	SPAC'	GROUP	AVE	MAX	MIN	MAX/MIN	AVE/MIN
New Area	424.36x325.58'±	Parking	234	10.00	(+)	1.38	2.39	0.41	5.87	3.39
		Property Line	215	10.00	(x)	0.86	0.40	0.00	N/A	N/A

Reeds Parking (18-0883) LUMINAIRE SCHEDULE

TYP	SYMBOL	DESCRIPTION	LAMP	LUMENS	MOUNTING/BALLAST	LLF	QTY
PS5A		GE LIGHTING PS_LED50_1/POST (1) "PS5A" PS_LED50_1-2/POST	(1) LED 4000K	4313	16' W/ HH Ped Shoebox	0.85	6
PS5B		GE LIGHTING PS_LED50_2@180 (2) "PS5B" PS_LED50_1-2/POST	(2) LED 4000K	4313	16' MT HT Ped Shoebox	0.85	2

LIGHTING DESIGN TOLERANCE

The calculated footcandle light levels in this lighting design are predicted values and are based on specific information that has been supplied to Duke Energy Progress. Any inaccuracies in the supplied information, differences in luminaire installation, lighted area geometry including elevation differences, reflective properties of surrounding surfaces, obstructions (foliage or otherwise) in the lighted area, or lighting from sources other than listed in this design may produce different results from the predicted values. Normal tolerances of voltage, lamp output, and ballast and luminaire manufacture will also affect results.

Customer approval_____ Date_____

DISTANCE CALIBRATION (INCHES)
0 0.5 1.0 2.0 3.0 4.0

DUKE ENERGY® PROGRESS

PROPRIETARY & CONFIDENTIAL

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REED'S PARKING
WILMINGTON, NC
SITE LIGHTING PLAN
Designed by DEP LIGHTING SOLUTIONS
Reviewed by N. Johnson Scale 1" = 20'
Date 05/15/2018 Size "Arch D"
Description LED Pedestrian Shoebox
Drawing No. 18-0083C Sht. 1 OF 1

ISSUED FOR AGENCY REVIEW ONLY

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THIS LIGHTING PLAN IS PREPARED SPECIFICALLY FOR THE REED'S PARKING FACILITY BY DUKE ENGERGY IN ACCORDANCE WITH THE CITY OF WILMINGTON'S REGULATIONS. COASTAL LAND DESIGN HAS NO RESPONSIBILITY FOR THE FIXTURE, POLE LAYOUT OR LIGHTING SPREAD.

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REEDS PARKING FACILITY

LIGHTING PLAN

REV	DESCRIPTION	DATE	INIT
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OWNER:
Glen Oak Farm Holdings,LLC
7102 Three Chopt Rd.
Richmond, VA 23226

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 390 FRANK BRAXTON 2/1/2018

APPROVED:	JP	PROJECT:	960-27
CHECKED:	FB	SCALE:	AS SHOWN
DESIGNED:	NA	RELEASE:	

SHEET
LP-01