

NOTES:

- ZONING**
 1) TOPOGRAPHY AND TREE SURVEY COMPLETED BY PATRICK C. BRISTOW, LAND SURVEYING, P.C.
 2) PERMITTING OF BUSINESS IDENTIFICATION SIGNAGE IS A SEPARATE PROCESS. CITY OF WILMINGTON WILL NOT ALLOW OBSTRUCTIONS WITHIN THE RIGHT-OF-WAY.
 3) CONTRACTOR SHALL FIELD VERIFY SIZE, MATERIAL, INVERTS AND LOCATION OF ALL EXISTING UTILITIES PRIOR TO INSTALLATION OF PROPOSED CONNECTIONS.
 4) EXISTING EASEMENTS AS SHOWN
 5) CONTRACTOR SHALL MAINTAIN ALL-WEATHER ACCESS FOR EMERGENCY VEHICLES AT ALL TIMES DURING CONSTRUCTION
 6) UNDERGROUND FIRE LINE(S) MUST BE PERMITTED AND INSPECTED BY THE WILMINGTON FIRE DEPARTMENT FROM THE PUBLIC RIGHT-OF-WAY TO THE BUILDING. CONTACT THE WILMINGTON FIRE DEPARTMENT DIVISION OF FIRE AND LIFE SAFETY AT 910-341-0696.

SOLID WASTE

- 1) SITE TO USE ON-SITE DUMPSTER.

TRAFFIC

- 1) ALL PAVEMENT MARKINGS IN PUBLIC RIGHTS-OF-WAY AND FOR DRIVEWAYS ARE TO BE THERMOPLASTIC AND MEET CITY AND/OR NCDOT STANDARDS.
 2) TRAFFIC CONTROL DEVICES (INCLUDING SIGNS AND PAVEMENT MARKINGS) IN AREAS OPEN TO PUBLIC TRAFFIC ARE TO MEET MUTCD (MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES) STANDARDS.
 3) CONTACT TRAFFIC ENGINEERING AT 341-7888 TO ENSURE THAT ALL TRAFFIC SIGNALS FACILITIES AND EQUIPMENT ARE SHOWN ON THE PLAN.
 4) CALL TRAFFIC ENGINEERING AT 341-7888 FORTY-EIGHT HOURS PRIOR TO ANY EXCAVATION IN THE RIGHT-OF-WAY.
 5) ANY BROKEN OR MISSING SIDEWALK PANELS, DRIVEWAY PANELS AND CURBING WILL BE REPLACED.
 6) CONTACT KAREN DIXON AT 741-7888 TO DISCUSS STREET LIGHTING OPTIONS.
 7) ALL TRAFFIC CONTROL SIGNS AND MARKINGS OFF THE RIGHT-OF-WAY ARE TO BE MAINTAINED BY THE PROPERTY OWNER IN ACCORDANCE WITH MUTCD STANDARDS.
 8) NO ROWS TO BE CLOSED.
 9) NO STREETS PROPOSED.
 10) OFF SITE PARKING PROPOSED AS SHOWN.
 11) DRIVEWAYS TO MEET CITY STANDARDS.
 12) ALL PARKING STALL MARKINGS AND LANE ARROWS WITHIN THE PARKING AREAS SHALL BE WHITE.
 13) STOP SIGNS AND STREET SIGNS TO REMAIN IN PLACE DURING CONSTRUCTION
 14) TACTILE WARNING MATS WILL BE INSTALLED ON ALL WHEELCHAIR RAMPS.

LANDSCAPING

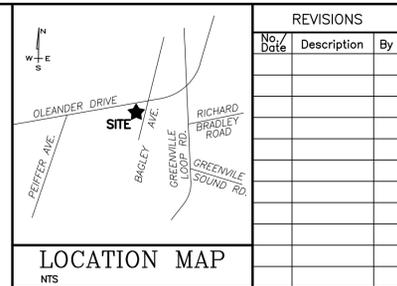
- 1) A LANDSCAPING PLAN INDICATING THE LOCATION OF REQUIRED STREET TREES SHALL BE SUBMITTED TO THE CITY OF WILMINGTON TRAFFIC ENGINEERING DIVISION AND THE PARKS AND RECREATION DEPARTMENT FOR REVIEW AND APPROVAL PRIOR TO THE RECORDING OF THE FINAL PLAN.
 2) NO OBSTRUCTIONS ARE PERMITTED IN THE SPACE BETWEEN THIRTY (30) INCHES AND TEN (10) FEET ABOVE THE GROUND WITHIN THE TRIANGULAR SITE DISTANCE.
 3) 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.
 4) ANY TREES AND/OR AREAS DESIGNATED TO BE PROTECTED MUST BE PROPERLY BARRICADED WITH FENCING AND PROTECTED THROUGHOUT CONSTRUCTION TO INSURE THAT NO CLEARING, GRADING OR STAGING OF MATERIALS WILL OCCUR IN THOSE AREAS.
 5) NO EQUIPMENT IS ALLOWED ON SITE UNTIL ALL TREE PROTECTION FENCING AND SILT FENCING IS INSTALLED AND APPROVED. PROTECTIVE FENCING IS TO BE MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT AND CONTRACTORS SHALL RECEIVE ADEQUATE INSTRUCTIONS ON TREE PROTECTION METHODS.

CFPUA

- 1) WATER AND SEWER SERVICE SHALL MEET CAPE FEAR PUBLIC UTILITY AUTHORITY (CFPUA) DETAILS AND SPECIFICATIONS.
 2) PROJECT SHALL 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.
 3) IF THE CONTRACTOR DESIRES CFPUA WATER FOR CONSTRUCTION, HE SHALL APPLY IN ADVANCE FOR THIS SERVICE AND MUST PROVIDE A REDUCED PRESSURE ZONE (RPZ) BACKFLOW PREVENTION DEVICE ON THE DEVELOPER'S SIDE OF THE WATER METER BOX.
 4) ANY IRRIGATION SYSTEM SUPPLIED BY CFPUA WATER SHALL COMPLY WITH THE CFPUA'S CONNECTION CONTROL REGULATION. CALL 332-6419 FOR INFORMATION.
 5) ANY BACKFLOW PREVENTION DEVICES REQUIRED BY CFPUA WILL NEED TO BE ON THE LIST OF APPROVED DEVICES FOR USCFCOCHR OR ASSE.
 6) PUBLIC WATER AND SEWER EXISTING.
 7) CONTACT THE NORTH CAROLINA ONE CALL CENTER AT 1-800-632-4949 PRIOR TO DOING ANY DIGGING, CLEARING OR GRADING.
 8) ANY IRRIGATION SYSTEM SHALL BE EQUIPPED WITH A RAIN AND FREEZER SENSOR.
 9) CONTRACTOR TO FIELD VERIFY EXISTING WATER AND SEWER SERVICE LOCATIONS, SIZES AND MATERIALS PRIOR TO CONSTRUCTION. ENGINEER TO BE NOTIFIED OF ANY CONFLICTS.

DRAINAGE

- 1) SHEET FLOW TO CURB INLETS TO WET DETENTION BASIN
 2) OUTFALL DRAINS TO EXIST. 36" RCP AT OLEANDER DR.



SITE DATA:

PROPERTY OWNER: HORNE JOYCE W IRREV TRUST ETAL
 PROJECT ADDRESS: 6020 OLEANDER DR
 PIN NUMBER: R06207-01-006-000

AREA NOT IN A FEMA 100-YEAR FLOOD ZONE.
 ZONING DISTRICT: CB-COMMUNITY BUSINESS
 DISTURBED AREA: 1.87 Ac.

SETBACKS REQUIRED: FRONT: 20', REAR: 10', INTERIOR SIDE: 0', CORNER SIDE: 20'

PROPOSED BUILDING SETBACKS: FRONT: 70', REAR: 133', INTERIOR SIDE: 44', CORNER SIDE: 47'

TRACT AREA: 74,052 SF (1.70 AC)
 BUILDING USE: AUTOMOTIVE

EXISTING BUILDING AREA (GROSS): 5,600 SF
 PROPOSED BUILDING AREA (GROSS): 7,844 SF
 BUILDING LOT COVERAGE (7,844/74,052): 10.5%
 NUMBER OF BUILDINGS: 1
 NUMBER OF UNITS: 1
 BUILDING HEIGHT: 21.583'
 NUMBER OF STORIES: 1
 SF PER FLOOR (GROSS): 7,844 SF

EXISTING IMPERVIOUS AREAS:
 EXISTING BUILDING: 5,600 SF
 EXISTING CONCRETE: 2,075 SF
 EXISTING GRAVEL: 6,965 SF
 EXISTING IMPERVIOUS AREA: 14,640 SF (19.77%)

PROPOSED IMPERVIOUS AREAS:
 PROPOSED BUILDING FOOTPRINT: 7,844 SF
 PROPOSED ASPHALT + CURB: 16,400 SF
 PROPOSED CONCRETE: 2,290 SF
 PERVIOUS PARKING: 4,770 SF
 CREDIT FOR PERVIOUS PARKING: -3,578 SF
 EXISTING IMPERVIOUS (TO REMAIN): 0 SF
 TOTAL IMPERVIOUS AREA: 27,726 SF (37.44%)

PARKING REQUIRED: (RETAIL PARTS SALES) 2,490 SF
 MAXIMUM: 1/200
 MINIMUM: 1/400
 PARKING REQUIRED: (REPAIR SERVICE) 5,354 SF
 MAXIMUM: 1/400
 MINIMUM: 1/600

TOTAL PARKING REQUIRED: MAXIMUM: 25
 MINIMUM: 15
 TOTAL PARKING PROVIDED: 31

CAMA LAND USE: WATERSHED RESOURCE PROTECTION

PUBLIC WATER AND SEWER BY CFPUA
 EXISTING WATER FLOW: 1,166 GPD
 EXISTING SEWER FLOW: 1,060 GPD
 PROPOSED WATER FLOW: 275 GPD PER EMPLOYEE x 10 EMPLOYEES x 110%
 PROPOSED SEWER FLOW: 250 GPD PER EMPLOYEE x 10 EMPLOYEES

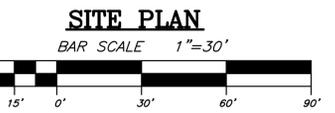
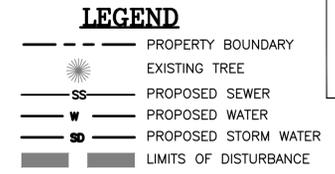
HANDICAP SPOTS REQUIRED: PROPOSED
 (1-25 SPOTS=1 HANDICAP SPOT)
 32 SPOTS/25=2
 2 HANDICAP SPOTS

BICYCLE PARKING REQUIRED (31 SPACES): 5 BICYCLE PARKS
 BICYCLE PARKING PROPOSED: 5 BICYCLE PARKS

Approved Construction Plan	
Name	Date
Planning	
Traffic	
Fire	

STORMWATER MANAGEMENT PLAN
 APPROVED
 CITY OF WILMINGTON
 ENGINEERING DEPARTMENT
 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.

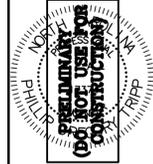


REVISIONS

No./Date	Description	By

SITE AND UTILITY PLAN
 WILMINGTON TIRE AND AUTO
 WILMINGTON, NORTH CAROLINA

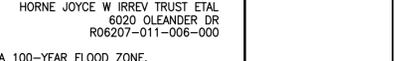
TRIPP ENGINEERING, P.C.
 419 Chestnut Street
 Wilmington, North Carolina 28401
 Phone 910-763-6100
 Fax 910-763-6631
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DATE 03-23-15
 DESIGN PGT
 DRAWN MLV

REVISIONS		
No./Date	Description	By

LOCATION MAP



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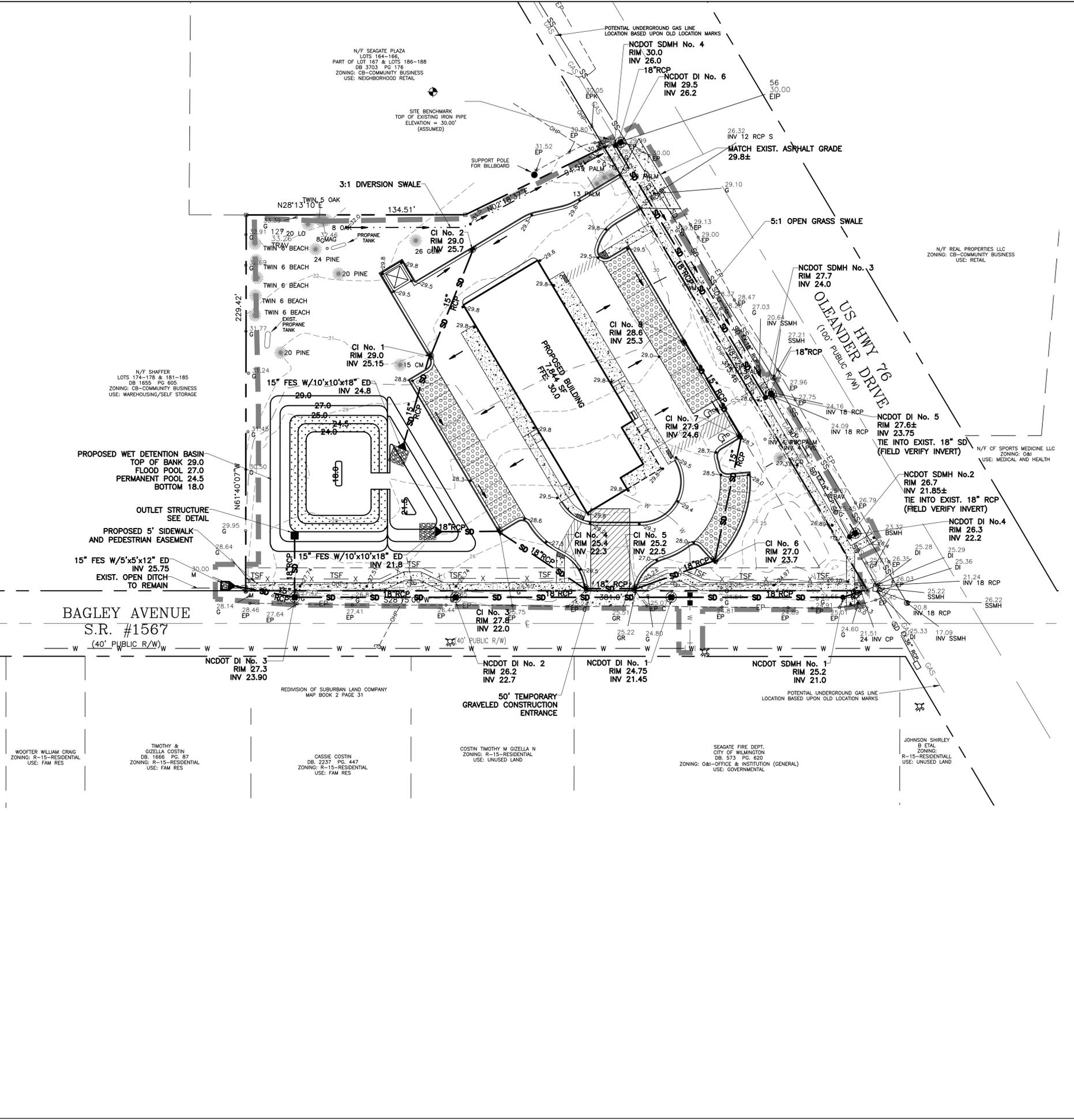
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- 2) OUTFALL DRAINS TO EXIST. 36" RCP AT OLEANDER DR.

LEGEND

- EXISTING CONTOUR
- SS--- PROPOSED SEWER
- W--- PROPOSED WATER
- SD--- PROPOSED STORM WATER
- LIMITS OF DISTURBANCE
- TSF--- TEMPORARY SILT FENCE
- x-28.0 PROPOSED SPOT ELEVATION
- x-37.52 EXISTING SPOT ELEVATION

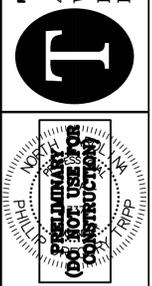
SITE PLAN

BAR SCALE 1"=30'



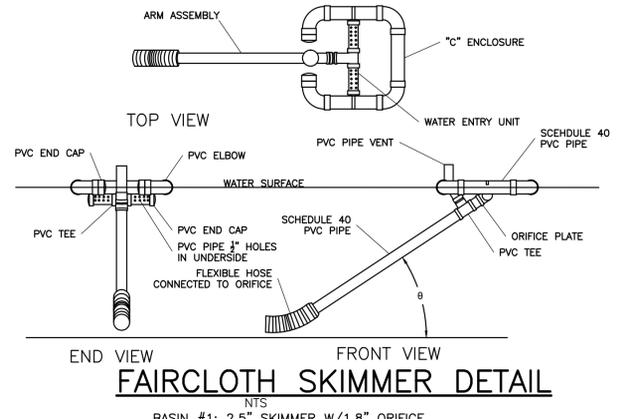
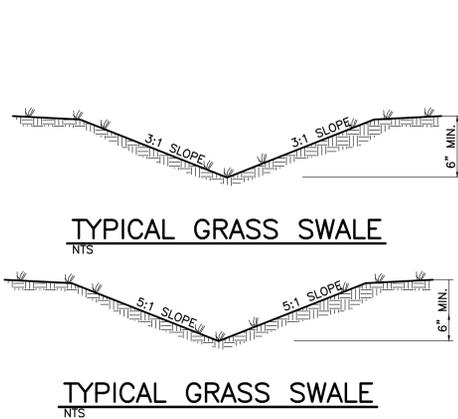
TRIPP ENGINEERING, P.C.
 419 Chestnut Street
 Wilmington, North Carolina 28401
 Phone 910-763-5100
 Fax 910-763-6631
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WILMINGTON TIRE AND AUTO
 WILMINGTON, NORTH CAROLINA

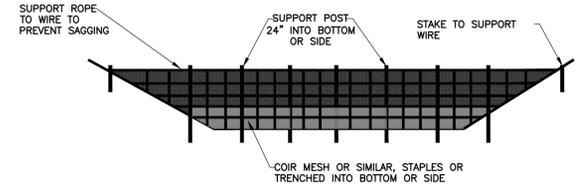
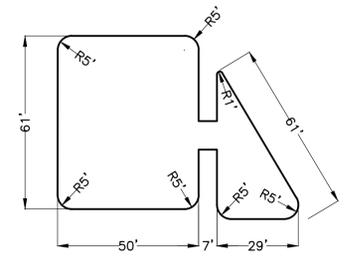


DATE 03-23-15
 DESIGN PGT
 DRAWN MLV

C3
 SHEET 3 OF 5
 14045



- BAFFLE CONSTRUCTION SPECIFICATION:**
- GRADE THE BASIN SO THAT THE BOTTOM IS LEVEL FRONT TO BACK AND SIDE TO SIDE.
 - INSTALL THE COIR FIBER BAFFLES IMMEDIATELY UPON EXCAVATION OF THE BASINS.
 - INSTALL POSTS ACROSS THE WIDTH OF THE SEDIMENT TRAP.
 - STEEL POSTS SHOULD BE DRIVEN TO A DEPTH OF 24 INCHES AND SPACED A MAXIMUM OF 4 FEET APART. THE TOP OF THE FABRIC SHOULD BE 6 INCHES HIGHER THAN THE INVERT OF THE SPILLWAY. TOPS OF BAFFLES SHOULD BE 2 INCHES LOWER THAN THE TOP OF THE EARTHEN EMBANKMENT.
 - INSTALL AT LEAST THREE ROWS OF BAFFLES BETWEEN THE INLET AND OUTLET DISCHARGE POINT. BASINS LESS THAN 20 FEET IN LENGTH MAY USE 2 BAFFLES.
 - ATTACH A 9 GAUGE HIGH TENSION WIRE STRAND TO THE STEEL POSTS AT A HEIGHT OF 6 INCHES ABOVE THE SPILLWAY ELEVATION WITH PLASTIC TIES OR WIRE FASTENERS TO PREVENT SAGGING. IF THE TEMPORARY SEDIMENT BASIN WILL BE CONVERTED TO A PERMANENT STORMWATER BASIN OF A GREATER DEPTH, THE BAFFLE HEIGHT SHOULD BE BASED ON THE POOL DEPTH DURING USE AS A TEMPORARY SEDIMENT BASIN.
 - EXTEND 9 GAUGE MINIMUM HIGH TENSION WIRE STRAND TO SIDE OF BASIN OR INSTALL STEEL T-POSTS TO ANCHOR BAFFLE TO SIDE OF BASIN AND SECURE TO VERTICAL END POSTS.
 - DRAPE THE COIR FIBER MAT OVER THE WIRE STRAND MOUNTED AT A HEIGHT OF 6 INCHES ABOVE THE SPILLWAY ELEVATION. SECURE THE COIR FIBER MAT TO THE WIRE STRAND WITH PLASTIC TIES OR WIRE FASTENERS. ANCHOR THE MATTING TO THE SIDES AND FLOOR OF THE BASIN WITH 12 INCH WIRE STAPLES, APPROXIMATELY 1 FT APART, ALONG THE BOTTOM AND SIDE SLOPES OF THE BASIN.
 - DO NOT SPLICE THE FABRIC, BUT USE A CONTINUOUS PIECE ACROSS THE BASIN.
 - ADJUSTMENTS MAY BE REQUIRED IN THE STAPLING REQUIREMENTS TO FIT INDIVIDUAL SITE CONDITIONS.

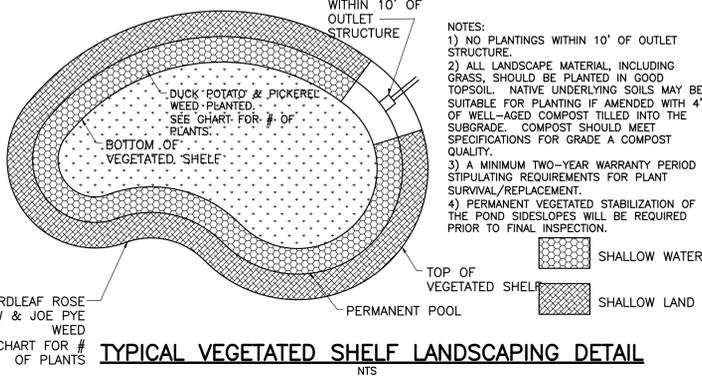


NORMAL POOL TO SHELF BOTTOM = 958 SF
● 50 PLANTS PER 200 SF = 240 PLANTS

PLANT TYPE	QTY	BOTANICAL NAME	COMMON NAME	ROOT CALIPER
HERBACEOUS	120	SAGITTARIA LATIFOLIA	DUCK POTATO	CONT. 4" POT
HERBACEOUS	120	PONTEDEARIA CORDATA	PICKEREL WEED	CONT. 4" POT

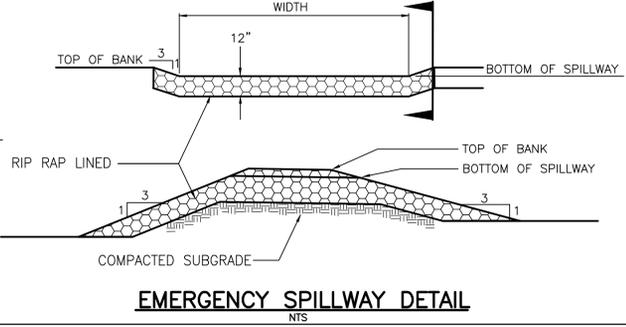
NORMAL POOL TO SHELF TOP = 1,158 SF
● 50 PLANTS PER 200 SF = 290 PLANTS

PLANT TYPE	QTY	BOTANICAL NAME	COMMON NAME	ROOT CALIPER
HERBACEOUS	145	HIBISCUS LAEVIS	HALBERDLEAF ROSE MALLOW	CONT. 4" POT
HERBACEOUS	145	EUPATORIUM ALIFOLIOSUS	JOE PYE WEED	CONT. 4" POT



EMERGENCY SPILLWAY DATA

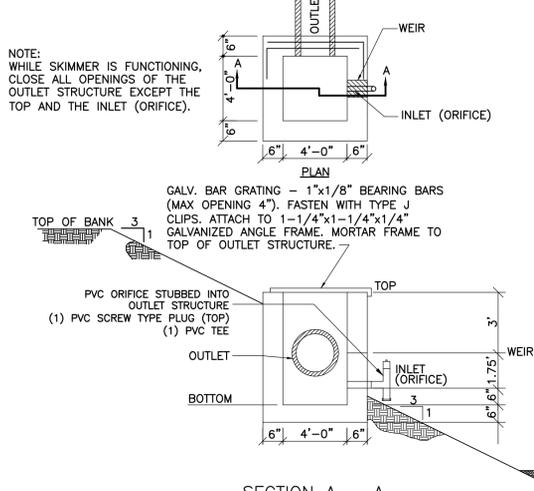
BASIN #	TOP OF BANK ELEV.	BOTTOM OF SPILLWAY ELEV.	WIDTH (FEET)
1	29.00	28.50	40



WET DETENTION BASIN OUTLET STRUCTURE
NTS

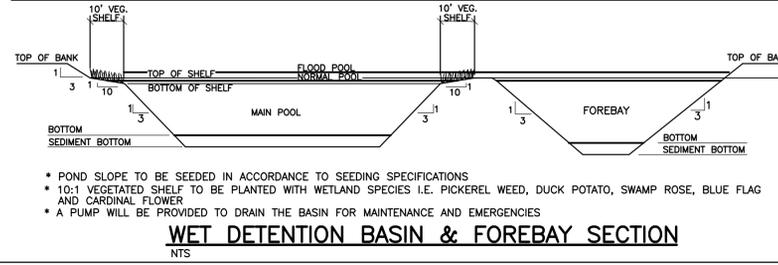
OUTLET STRUCTURE DATA

BASIN #	TOP ELEV.	BOTTOM ELEV.	(ORIFICE) SIZE/INVERT	WEIR SIZE/INVERT	OUTLET SIZE	OUTLET INV. IN/ INV. OUT
1	27.75	23.75	1.0"/24.50	12"/27.0	18 inch	24.0/21.51



WET DETENTION BASIN DATA

BASIN #	TOP OF BANK ELEV.	TEMPORARY POOL ELEV.	PERMANENT POOL ELEV.	SHWT	EMERGENCY SPILLWAY EL.	BOTTOM MAIN/FOREBAY	SEDIMENT BOTTOM MAIN/FOREBAY
1	29.00	27.00	24.50	???	28.50	18.0/21.5	17.0/20.5



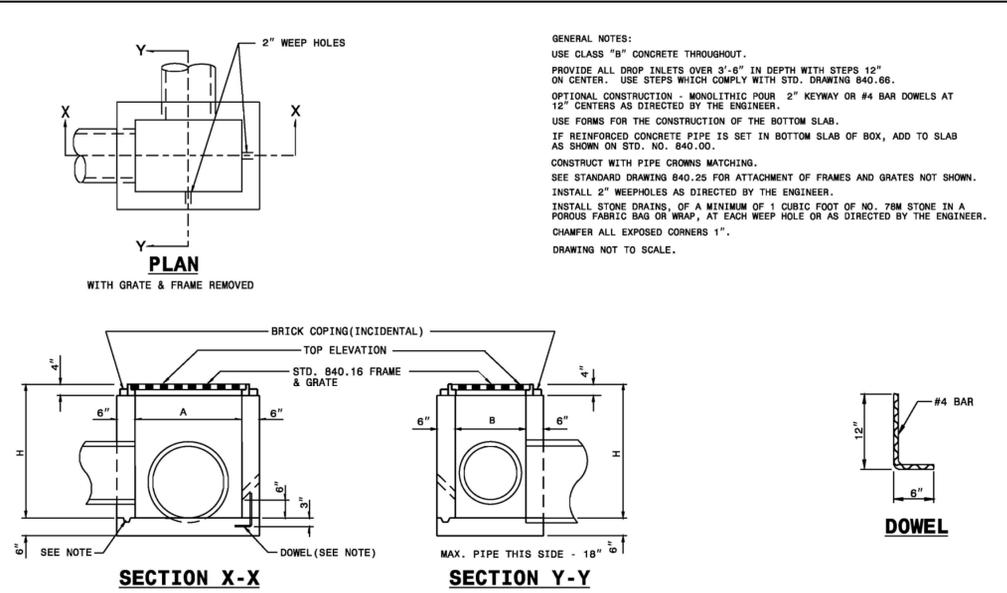
- POND SLOPE TO BE SEEDED IN ACCORDANCE TO SEEDING SPECIFICATIONS
- 10:1 VEGETATED SHELF TO BE PLANTED WITH WETLAND SPECIES I.E. PICKEREL WEED, DUCK POTATO, SWAMP ROSE, BLUE FLAG AND CARDINAL FLOWER.
- A PUMP WILL BE PROVIDED TO DRAIN THE BASIN FOR MAINTENANCE AND EMERGENCIES

STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

1-12

ENGLISH STANDARD DRAWING FOR
CONCRETE DROP INLET
12" THRU 30" PIPE

SHEET 1 OF 1
840.14



DIMENSIONS AND QUANTITIES FOR DROP INLET (BASED ON MIN. HEIGHT, H)

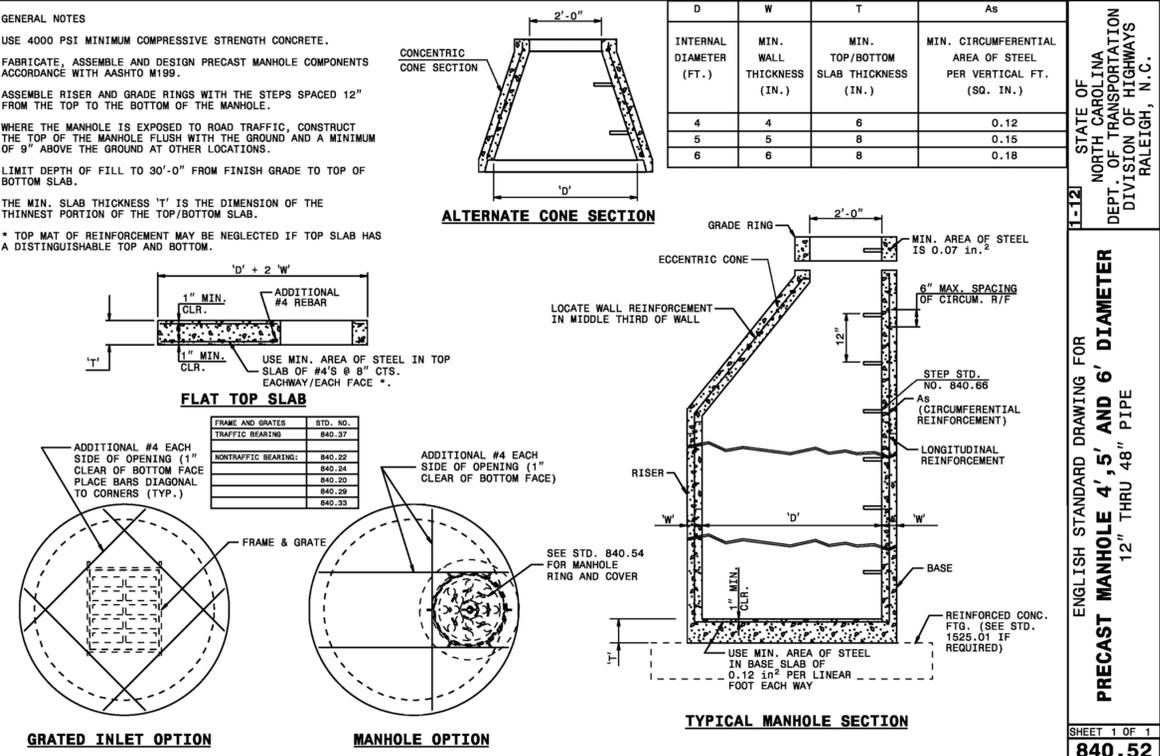
DIMENSIONS OF BOX & PIPE		CUBIC YARDS CONC. IN BOX		DEDUCTIONS FOR ONE PIPE				
PIPE	SPAN	WIDTH	MIN. HEIGHT	BOTTOM SLAB	WALL PER FT. HT.	TOTAL FOR MINIMUM HEIGHT	C.M.	R.C.
12"	3'-0"	2'-0"	2'-0"	0.222	0.222	0.592	0.015	0.026
15"	/	/	2'-3"	/	/	0.648	0.023	0.036
18"	/	/	2'-6"	/	/	0.703	0.033	0.049
24"	/	/	3'-0"	/	/	0.814	0.059	0.085
30"	3'-0"	2'-0"	3'-6"	0.222	0.222	0.925	0.092	0.127

STATE OF NORTH CAROLINA
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DIVISION OF HIGHWAYS
RALEIGH, N.C.

1-12

ENGLISH STANDARD DRAWING FOR
PRECAST MANHOLE 4', 5' AND 6' DIAMETER
12" THRU 48" PIPE

SHEET 1 OF 1
840.52



SHEET 1 OF 1
840.52

Approved Construction Plan

Name _____ Date _____

Planning _____

Traffic _____

Fire _____

STORMWATER MANAGEMENT PLAN
APPROVED

CITY OF WILMINGTON
ENGINEERING DEPARTMENT

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.

REVISIONS

No./Date	Description	By

STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

1-12

ENGLISH STANDARD DRAWING FOR
CONCRETE DROP INLET
12" THRU 30" PIPE

SHEET 1 OF 1
840.14

STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

1-12

ENGLISH STANDARD DRAWING FOR
PRECAST MANHOLE 4', 5' AND 6' DIAMETER
12" THRU 48" PIPE

SHEET 1 OF 1
840.52



DATE 03-23-15
DESIGN PGT
DRAWN EJW

DETAILS AND NOTES

WILMINGTON TIRE AND AUTO
WILMINGTON, NORTH CAROLINA

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