

VICINITY MAP  
Not To Scale

# CAROLINA MARINE TERMINAL TERMINAL EXPANSION

## 3330 RIVER ROAD WILMINGTON, NORTH CAROLINA

### ISSUED FOR CONSTRUCTION RELEASE

JUNE 3, 2015

#### OWNER / DEVELOPER:

ALTAMAR, INC.  
3330 RIVER ROAD  
WILMINGTON, NC 28412

#### OWNER'S DESIGNATED REPRESENTATIVE:

MICHAEL MCCARLEY, PRESIDENT  
ALTAMAR, INC.  
mike@admci.com  
(910) 395-4777

#### PROJECT ENGINEER / REPRESENTATIVE:

J. BRANCH SMITH, PE  
McKIM & CREED, INC.  
243 NORTH FRONT STREET  
WILMINGTON, NORTH CAROLINA 28401  
brsmith@mckimcreed.com  
(910) 343-1048

#### PROJECT ADDRESS:

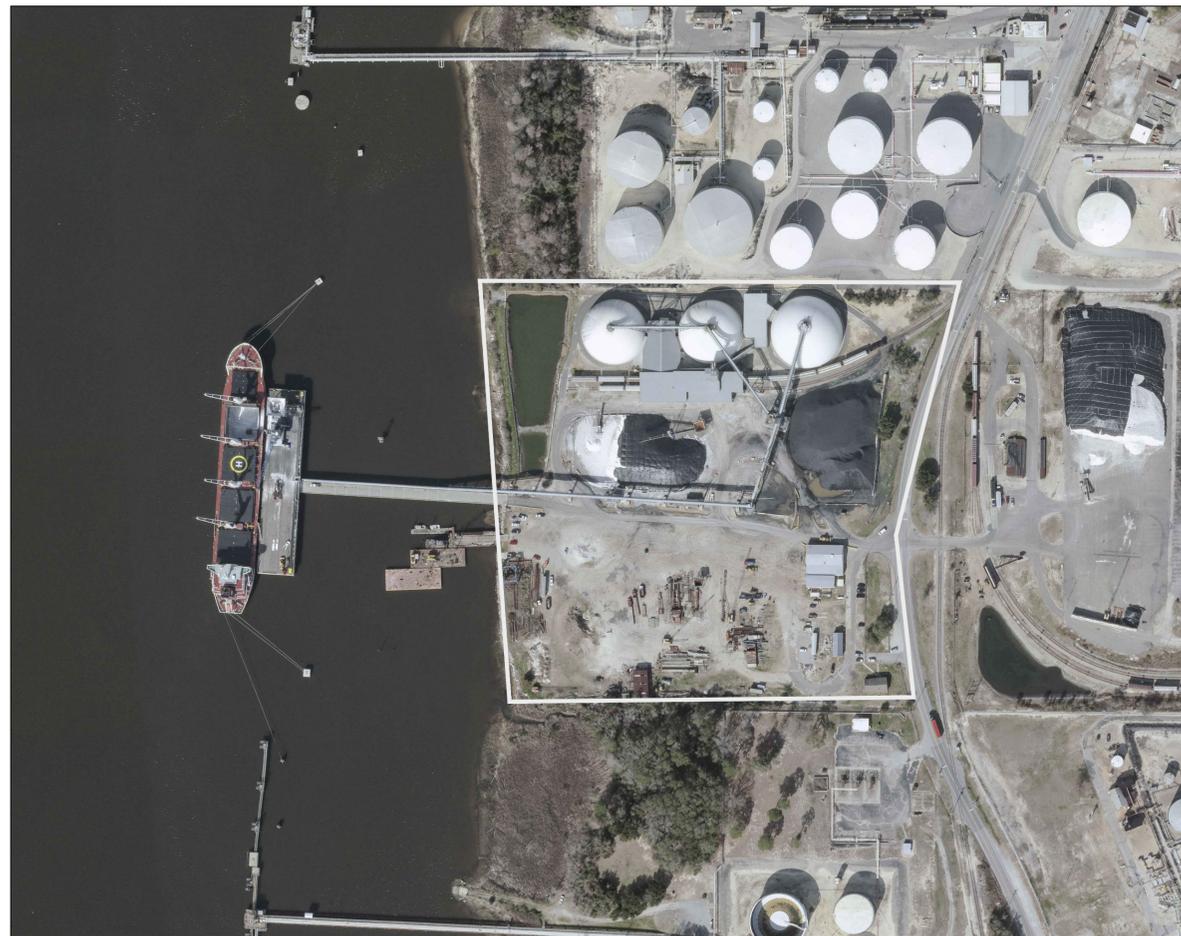
3330 RIVER ROAD  
WILMINGTON, NC 28412

#### TAX PARCEL IDENTIFICATION NUMBER:

R06400-001-004-000

#### PROPERTY ZONING:

IND - INDUSTRIAL



PROJECT AERIAL  
SCALE: 1" = 200'

REF. NCONE MAP AERIAL 2012

NORTH

#### SHEET INDEX

SHEET #	FILE #	DESCRIPTION
G-0		COVER SHEET
G-1	CP101	OVERALL SITE INVENTORY PLAN
G-2	CP102	DOMES #8 - #10 SITE PLAN
C-1	CG101	GRADING, DRAINAGE, & EROSION CONTROL PLAN
C-2	CE501	EROSION CONTROL DETAILS
C-3	CL101	LANDSCAPE PLAN

#### CITY OF WILMINGTON STANDARD NOTES

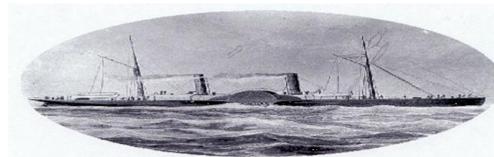
- PRIOR TO ANY CLEARING, GRADING OR CONSTRUCTION ACTIVITY, TREE PROTECTION FENCING WILL BE INSTALLED AROUND PROTECTED TREES OR GROVES OF TREES AND NO CONSTRUCTION WORKERS, TOOLS, MATERIALS, OR VEHICLES ARE PERMITTED WITHIN THE TREE PROTECTION FENCING.
- ALL PAVEMENT MARKINGS IN PUBLIC RIGHTS-OF-WAY AND FOR DRIVEWAYS ARE TO BE THERMOPLASTIC AND MEET CITY AND/OR NCDOT STANDARDS.
- ONCE PUBLIC STREETS ARE OPEN TO TRAFFIC, THE DEVELOPER SHALL CONTACT TRAFFIC ENGINEERING TO REQUEST INSTALLATION OF TRAFFIC AND STREET NAME SIGNS. PROPOSED STREET NAMES MUST BE APPROVED PRIOR TO INSTALLATION OF STREET NAME SIGNS.
- 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.
- ANY BROKEN OR MISSING SIDEWALK PANELS, DRIVEWAY PANELS, AND CURBING SHALL BE REPLACED.
- CONTACT TRAFFIC ENGINEERING AT (910) 341-7888 TO DISCUSS STREET LIGHTING OPTIONS.
- IF THE CONTRACTOR DESIRES WATER FOR CONSTRUCTION HE SHALL APPLY WITH THE CPFA 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.
- CONTACT TRAFFIC ENGINEERING AT (910) 341-7888 TO ENSURE THAT ALL TRAFFIC SIGNAL FACILITIES AND EQUIPMENT ARE SHOWN ON THE PLAN. CALL TRAFFIC ENGINEERING FORTY-EIGHT HOURS PRIOR TO ANY EXCAVATION IN THE RIGHT-OF-WAY. TRAFFIC ENGINEERING MUST APPROVE OF PAVEMENT MARKING PRIOR TO ACTUAL STRIPING.
- TACTILE WARNING MATS ARE TO BE INSTALLED ON ALL WHEELCHAIR RAMPS.
- ALL PARKING STALL MARKINGS AND LANE ARROWS WITHIN THE PARKING AREAS SHALL BE WHITE.
- ALL TRAFFIC CONTROL SIGNS AND MARKINGS OUTSIDE THE PUBLIC RIGHT-OF-WAY ARE TO BE MAINTAINED BY THE PROPERTY OWNER.
- STOP SIGNS AND STREET SIGNS TO REMAIN IN PLACE DURING CONSTRUCTION.
- A UTILITY CUT PERMIT IS REQUIRED FOR EACH OPEN CUT OF A CITY UTILITY.
- NO OBSTRUCTIONS ARE PERMITTED IN THE SPACE BETWEEN THIRTY (30) INCHES AND TEN (10) FEET ABOVE THE GROUND WITHIN THE TRIANGULAR SIGHT DISTANCE.
- PERMITTING OF BUSINESS IDENTIFICATION SIGNAGE IS A SEPARATE PROCESS. NCDOT/CITY OF WILMINGTON WILL NOT ALLOW THESE OBSTRUCTIONS WITHIN THE RIGHT-OF-WAY.

STORMWATER MANAGEMENT PLAN  
APPROVED  
CITY OF WILMINGTON  
ENGINEERING DEPARTMENT  
DATE \_\_\_\_\_ PERMIT # \_\_\_\_\_  
SIGNED \_\_\_\_\_

Approved Construction Plan  
Name \_\_\_\_\_ Date \_\_\_\_\_  
Planning \_\_\_\_\_  
Traffic \_\_\_\_\_  
Fire \_\_\_\_\_

1 inch

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



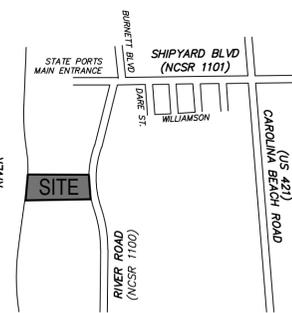
CAROLINA MARINE TERMINAL



243 North Front Street  
Wilmington, North Carolina 28401  
Phone: (910)343-1048 , Fax: (910)251-8282  
NC LICENSE NO. F-1222  
www.mckimcreed.com



Know what's below.  
Call before you dig.



VICINITY MAP  
Not To Scale  
SITE INVENTORY GENERAL INFORMATION

- 1. Applicant name: ALTAMAR, INC.
2. Site address of the development: 3330 RIVER ROAD, WILMINGTON, NORTH CAROLINA
3. Property owner: ALTAMAR, INC.
4. Name of developer: CAROLINA MARINE TERMINAL, INC.
5. Property boundary. Indicate minimum Tax Parcel information or boundary survey, or deed composite: INDICATED ON THIS DRAWING / PARCEL ID R06400-001-004-000
6. Indicate the zoning of the property: PROPERTY ZONED IND
7. Adjacent property information, including owner and zoning: OWNERS INDICATED ON THIS DRAWING, ZONING IS IND
8. Vicinity map in relation to the site: INDICATED ON THIS DRAWING
9. Topography of the site in one (1) foot intervals: MCKIM & CREED FIELD SURVEYS (2005-2015)
10. Approximate location of 100-year flood plain boundary. Note areas with a history of flooding: INDICATED ON THIS DRAWING
11. Locate existing ditches, creeks, and streams and their classification (i.e. intermittent, perennial, C (SW), ORW, etc): INDICATED ON THIS DRAWING; CAPE FEAR RIVER and FRESH WATER STREAM (Sc Classification)
12. Indicate the types of soils as referenced in the most recent book of Soil Survey of New Hanover County, North Carolina by the US Department of Agriculture and Natural Resource Conservation Service: URBAN LAND (Ur), DOROVAN (Do), AND TIDAL MARSH (Tm).
13. Locate any CAMA areas of concern (AEC) and associated setbacks: INDICATED ON THIS DRAWING
14. Identify the CAMA land classification from the Wilmington-New Hanover County Comprehensive Plan: CONSERVATION & URBAN
15. Indicate the presence or non-presence of Conservation Resources: 100' SETBACK (CITY) AS INDICATED ON THIS DRAWING
16. Indicate whether or not the site is recognized as a local, state or federally historic or archaeological site: NONE
17. Indicate the location of cemeteries, burial sites, or burial grounds: NONE
18. Delineate aerial extent of forested areas, indicated areas in square feet or acres, and note habitat and dominant species within stands: NONE
19. Delineate the approximate location of U.S. Army Corps of Engineers Section 404 wetlands and Section 10 waters: INDICATED ON THIS DRAWING
20. Indicate the presence of protected species or habitat information available from the U.S. Fish and Wildlife Service and N.C. natural heritage inventory: NO PROTECTED SPECIES OR HABITAT ON SITE
21. Indicate the presence or non-presence of existing or proposed thoroughfares, bike routes, pedestrian sidewalks or trails and transit facilities: INDICATED ON THIS DRAWING
22. FLOOD\_ZONE INFO: Property lies in ZONE 'AE' EL 9 (base flood elevation determined), ZONE 'X OTHER' (areas of 0.2% ANNUAL CHANCE FLOODPLAIN), and ZONE 'X' (areas determined to be outside the 0.2% ANNUAL CHANCE FLOODPLAIN) as scaled from FIRM MAP Number 3720311500k and 3720311600k Dated June 02, 2006. Vertical Datum is NAVD 88 (to convert from NGVD 29 to NAVD 88, subtract 0.95').
23. Plats and Documents shall be recorded to provide perpetual protections for conservation resources and associated setbacks in accordance to the City of Wilmington Code of Ordinances, Section 18-341 Conservation Resource Regulations.

STORMWATER MANAGEMENT PLAN  
APPROVED  
CITY OF WILMINGTON  
ENGINEERING DEPARTMENT  
DATE PERMIT #  
SIGNED

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1 inch

Table with 3 columns: Category, Value, Unit. Rows include IMPERVIOUS AREA (EXISTING), IMPERVIOUS AREA (PROPOSED DOMES #8-#10), and OVERALL IMPERVIOUS.

Table with 3 columns: Category, Value, Unit. Rows include CONSERVATION RESOURCE IMPACTS, TOTAL AREA OF CAMA AEC LINE, IMPERVIOUS IMPACT IN CAMA AEC LINE, etc.

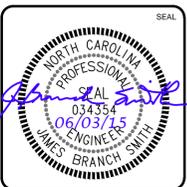
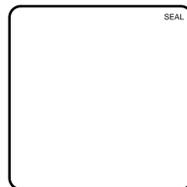
PARKING CALCULATIONS table with 3 columns: Category, Value, Unit. Rows include CURRENT USE, TOTAL SPACES, ACCESSIBLE SPACES PROVIDED.

Approved Construction Plan form with fields for Name, Date, Planning, Traffic, Fire.

End point of wetland flagging, typ. 50' STATE STORMWATER BUFFER AND 50' CITY OF WIL. CONSERVATION SETBACK. MIN. 35' CITY OF WIL. CONSERVATION BUFFER.

RELATIVE PERMANENT WATERS (RPW): FRESHWATER MARSH REF. USAGE SAW-2012-00653

Revisions table with columns: REV. NO., DESCRIPTIONS, DATE.

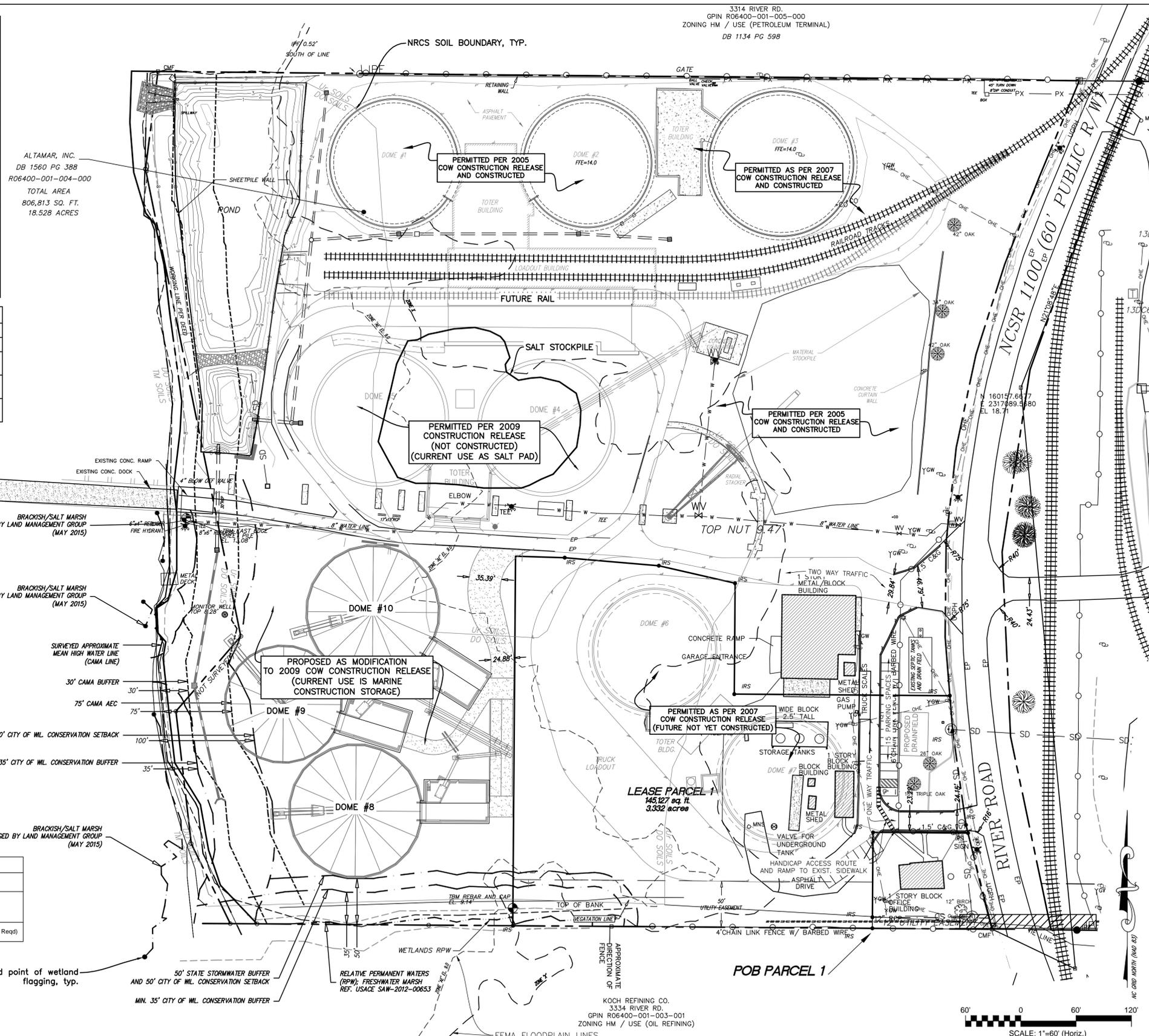


MCKIM & CREED logo and contact information: 243 North Front Street, Wilmington, North Carolina 28401. Phone: (910)343-1048, Fax: (910)251-8282. License: F-1222. www.mckimcreed.com

Carolina Marine Terminal logo and address: 3330 River Road, Wilmington, NC 28412.

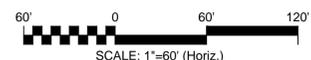
CAROLINA MARINE TERMINAL TERMINAL EXPANSION (2015) Wilmington, NC OVERALL SITE INVENTORY PLAN

Project metadata: DATE: 4/2/2015, MCE PROJ. # 3057-0014, DRAWN: JBS, DESIGNED: JBS, CHECKED: RMC, PROJ. MGR: RMC. SCALE: HORIZONTAL: 1"=60', VERTICAL: NA. MAC FILE NUMBER: CP101, DRAWING NUMBER: G-1, 2 of 6. STATUS: ISSUED FOR COW CONSTRUCTION RELEASE, REVISION: D.



3314 RIVER RD. GPIN R06400-001-005-000 ZONING HM / USE (PETROLEUM TERMINAL) DB 1134 PG 598

KOCH REFINING CO. 3334 RIVER RD. GPIN R06400-001-003-001 ZONING HM / USE (OIL REFINING)



BRACKISH/SALT MARSH  
FLAGGED BY LAND MANAGEMENT GROUP  
(MAY 2015)

BRACKISH/SALT MARSH  
FLAGGED BY LAND MANAGEMENT GROUP  
(MAY 2015)

SURVEYED APPROXIMATE  
MEAN HIGH WATER LINE  
(CAMA LINE)

30' CAMA BUFFER

75' CAMA AEC

100' CITY OF WL. CONSERVATION SETBACK

MIN. 35' CITY OF WL. CONSERVATION BUFFER

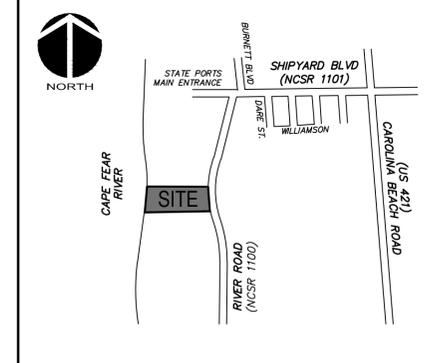
BRACKISH/SALT MARSH  
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(MAY 2015)

CONSERVATION RESOURCE IMPACTS			
TOTAL AREA OF CAMA AEC LINE	70,912	SF	
IMPERVIOUS IMPACT IN CAMA AEC LINE	301	SF	
TOTAL AREA OF CITY CONSERVATION RESOURCE 100' SETBACK LINE	96,121	SF	
IMPERVIOUS IMPACT IN 100' SETBACK LINE	1,750	SF	
PERCENTAGE (IMPERVIOUS/CITY CONSERVATION SETBACK) (SEC. 18-341 (D) (5))	1.82	% << 25%	

50' STATE STORMWATER BUFFER  
AND 50' CITY OF WL. CONSERVATION SETBACK

MIN. 35' CITY OF WL. CONSERVATION BUFFER

RELATIVE PERMANENT WATERS  
(RPW); FRESHWATER MARSH  
REF. USACE SAW-2012-00653

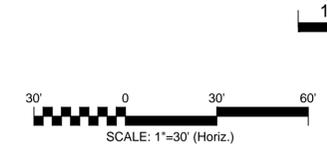


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STORMWATER MANAGEMENT PLAN  
APPROVED  
CITY OF WILMINGTON  
ENGINEERING DEPARTMENT  
DATE \_\_\_\_\_ PERMIT # \_\_\_\_\_  
SIGNED \_\_\_\_\_

Approved Construction Plan

Name \_\_\_\_\_ Date \_\_\_\_\_

Planning \_\_\_\_\_

Traffic \_\_\_\_\_

Fire \_\_\_\_\_

REV. NO.	DESCRIPTIONS	DATE
D	TRC SUBMITTAL NO. 3	08/03/15
C	TRC SUBMITTAL NO. 2	05/18/15
B	ISSUED FOR CON. TRC.	4/28/15
A	ISSUED FOR CAMA MINOR MODIFICATION REVIEW	4/22/15



**MCKIM & CREED**

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**Carolina Marine Terminal**  
3330 River Road  
Wilmington, NC 28412

**CAROLINA MARINE TERMINAL**  
TERMINAL EXPANSION (2015)  
Wilmington, NC

**DOMES #8 - #10 SITE PLAN**

DATE:	4/2/2015	SCALE:	1"=30'	MAC FILE NUMBER:	CP102
MCE PROJ. #:	3057-0014	HORIZONTAL:	1"=30'	DRAWING NUMBER:	G-2
DRAWN:	JBS	VERTICAL:	NA		3 of 6
DESIGNED:	JBS				
CHECKED:	RMC				
PROJ. MGR.:	RMC				

STATUS: ISSUED FOR COW CONSTRUCTION RELEASE

REVISION: D

**EROSION CONTROL NOTES**

- CLEAR AND REMOVE FROM SITE ALL TREES, SHRUBS, ROOTS, ROOT MAT, ETC. FROM THE AREA WITHIN DESIGNATED CLEARING LIMITS. DO NOT DISTURB INSIDE TREE PROTECTION FENCING.
- CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING AND RESTORING TO PRE-CONSTRUCTION CONDITIONS ANY AREAS OUTSIDE THE PROJECT LIMITS THAT MAY INADVERTENTLY BE DAMAGED DUE TO THE FAILURE OF THE EROSION MEASURES DURING GRADING AND AFTER GRADING HAS BEEN COMPLETED.
- CONTRACTOR SHALL CONTINUE TO MAINTAIN PERMANENT AND TEMPORARY EROSION CONTROL MEASURES UNTIL FINAL INSPECTION AND APPROVAL BY THE ENGINEER OR NEW HANOVER COUNTY INSPECTOR, IF REQUIRED.
- PRIOR TO ANY CLEARING, GRADING OR CONSTRUCTION ACTIVITY, TREE PROTECTION FENCING SHALL BE INSTALLED AROUND PROTECTED TREES OR GROVES OF TREES AND NO TOOLS, STOCKPILES, MATERIALS, OR VEHICLES ARE PERMITTED WITHIN THE TREE PROTECTION FENCING.
- IF THE SAME PERSON CONDUCTS THE LAND-DISTURBING ACTIVITY & ANY RELATED BORROW OR WASTE ACTIVITY, THE RELATED BORROW OR WASTE ACTIVITY SHALL CONSTITUTE PART OF THE LAND-DISTURBING ACTIVITY UNLESS THE BORROW OR WASTE ACTIVITY IS REGULATED UNDER THE MINING ACT OF 1971, OR IS A LANDFILL REGULATED BY THE DIVISION OF WASTE MANAGEMENT. IF THE LAND-DISTURBING ACTIVITY AND ANY RELATED BORROW OR WASTE ACTIVITY ARE NOT CONDUCTED BY THE SAME PERSON, THEY SHALL BE CONSIDERED SEPARATE LAND-DISTURBING ACTIVITIES AND MUST BE PERMITTED EITHER THROUGH THE SEDIMENTATION POLLUTION CONTROL ACT AS A ONE-USE BORROW SITE OR THROUGH THE MINING ACT.
- CONTACT PERSON SHOULD ISSUES ARISE DURING EROSION AND SEDIMENT CONTROL OPERATION:  
ANDY TOMLIN @ 910-395-4777

TEMPORARY INLET PROTECTION DANDY SACK® OR APPROVED EQUAL OR HARDWARE CLOTH & GRAVEL INLET PROTECTION (TYP.) SEE DETAILS, CE501.

TEMPORARY DIVERSION DITCH WITH LINING & WATTLES. TO BE CONVERTED TO PERMANENT GRASS SWALE SEE DETAILS.

LIMITS OF DISTURBANCE = 3.27 AC

**STAGE 1 & 2 CONSTRUCTION SEQUENCE**

- ESTABLISH LIMITS OF DISTURBANCE AS SHOWN.
- A PRECONSTRUCTION CONFERENCE MUST BE HELD 48 HOURS PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITIES. THE EROSION CONTROL INSPECTOR, ENGINEER, AND CONTRACTOR SHALL MEET AT THE NEW HANOVER COUNTY EROSION CONTROL INSPECTOR'S OFFICE.
- INSTALL TEMPORARY GRAVEL CONSTRUCTION ENTRANCE AS SHOWN. CONTRACTOR SHALL MAINTAIN A SUFFICIENT GRAVEL ENTRANCE UNTIL FINAL SUBGRADE IS ESTABLISHED. IF DIRT/MUD GETS ON THE STREET, THEN A WASH RACK WILL NEED TO BE INSTALLED.
- INSTALL SILT FENCING AS NOTED ON PLANS BEFORE COMMENCING ANY LAND DISTURBANCE ACTIVITY.
- INSTALL INLET PROTECTION AS SHOWN ON PLANS.
- COMMENCE GRUBBING AND ROUGH GRADING WITHIN THE LIMITS OF CONSTRUCTION.
- COMMENCE NEW STORM PIPE INSTALLATION.
- COORDINATE DISCONNECTION OF EXISTING UTILITIES WITH THE PROPER AUTHORITIES.
- PROVIDE TEMPORARY STABILIZATION AND SEEDING AS NECESSARY TO PREVENT EROSION. REFER TO SHEET CE501 FOR GROUND STABILIZATION CRITERIA AND SEEDING SCHEDULE.
- REMOVE ACCUMULATED SEDIMENT FROM SEDIMENT CONTROL MEASURES AS REQUIRED ON THE PLANS AND PERMIT.
- CONSTRUCT TANK PADS AND OTHER STRUCTURAL SUBGRADES AND FOUNDATIONS.
- CONTRACTOR SHALL CONTINUOUSLY MAINTAIN EROSION CONTROL MEASURES AND CLEAN AND REPAIR TEMPORARY SEDIMENT MEASURES TO MEET NEW HANOVER COUNTY APPROVAL.
- UPON COMPLETION OF CONSTRUCTION, CONTRACTOR TO REQUEST FINAL INSPECTION FROM NEW HANOVER COUNTY EROSION CONTROL INSPECTOR TO ALLOW REMOVAL OF ALL TEMPORARY EROSION CONTROL DEVICES.
- INSTALL LANDSCAPING AND ESTABLISH FINAL GRADES.
- INSTALL PERMANENT SEEDING. REFER TO GROUND STABILIZATION CRITERIA TABLE FOR AREAS THAT REQUIRE 7-DAY STABILIZATION. ALL OTHER AREAS NOT REQUIRING 7-DAY STABILIZATION SHALL BE STABILIZED WITHIN 14-DAYS.
- REMOVE ALL SEDIMENT FROM ALL STORM DRAIN PIPES.
- SILT FENCE MUST REMAIN INSTALLED AND FUNCTIONING PROPERLY UNTIL THE LIMITS OF CONSTRUCTION HAVE BEEN PERMANENTLY STABILIZED.

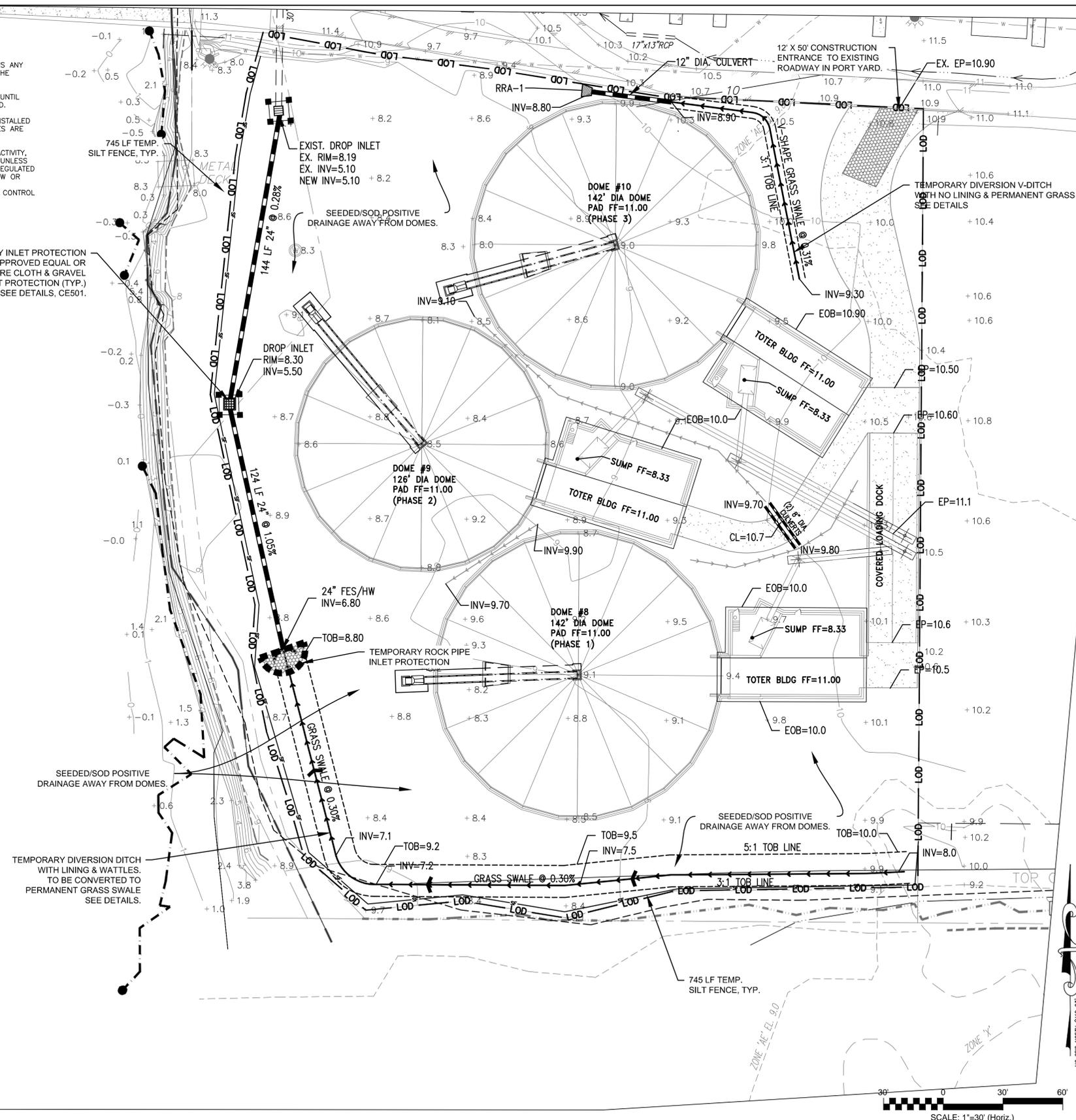
**LEGEND**

TOB	=	TOP OF BANK	●	=	SANITARY SEWER MANHOLE
EP	=	EDGE OF PAVEMENT	○	=	POWER POLE
CL	=	CENTERLINE	Y	=	GUY WIRE
EOB	=	EDGE OF BUILDING AT NATURAL GRADE	□	=	CABLE PEDESTAL
△ RBC	=	REBAR & CAP	□	=	TELEPHONE PEDESTAL
● IFF	=	IRON PIPE FOUND	□	=	TELEPHONE MANHOLE
INV.	=	INVERT	□	=	GAS VALVE
EL	=	ELEVATION	□	=	ASPHALT PAVEMENT
⊕	=	WELL	□	=	TEMP. ROCK PIPE INLET PROTECTION
⊕	=	WATER METER	□	=	TEMPORARY INLET PROTECTION
⊕	=	FIRE HYDRANT	□	=	LIMITS OF DISTURBANCE LINE
⊕	=	WATER VALVE	□	=	SILT FENCE LINE
⊕	=	GRADED INLET	□	=	UNDERGROUND STORM LINE
⊕	=	YARD INLET	□	=	UNDERGROUND SANITARY LINE
⊕	=	STORM DRAIN MANHOLE	□	=	UNDERGROUND WATER LINE

**NPDES PERMIT NCG 010000 PLAN NOTES:**

- ACCORDING TO NPDES NCG 010000 EFFECTIVE AUGUST 3, 2011: THE PLANS SHALL CONFORM TO GROUND STABILIZATION REQUIREMENTS OF SECTION II.B.2 GROUND STABILIZATION.
- ACCORDING TO NPDES NCG 010000 EFFECTIVE AUGUST 3, 2011: THE SEDIMENT BASINS SHALL CONFORM TO SURFACE WITHDRAWAL REQUIREMENTS OF SECTION II.B.4 SEDIMENT BASINS.

GROUND STABILIZATION CRITERIA		
SITE AREA DESCRIPTION	STABILIZATION TIMEFRAME	STABILIZATION TIMEFRAME EXCEPTIONS
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10 FT 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 FT IN LENGTH
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE (EXCEPT FOR PERIMETERS AND HOW ZONES)



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1 inch

**STORMWATER MANAGEMENT PLAN APPROVED**  
CITY OF WILMINGTON  
ENGINEERING DEPARTMENT  
DATE \_\_\_\_\_ PERMIT # \_\_\_\_\_  
SIGNED \_\_\_\_\_

**Approved Construction Plan**  
Name \_\_\_\_\_ Date \_\_\_\_\_  
Planning \_\_\_\_\_  
Traffic \_\_\_\_\_  
Fire \_\_\_\_\_

SCALE: 1"=30' (Horiz.)

REV. NO.	DESCRIPTIONS	DATE
D	TRC SUBMITTAL No. 3	08/03/15
C	TRC SUBMITTAL No. 2	05/19/15
B	ISSUED FOR COW TRC	02/26/15
A	ISSUED FOR COW MINOR MODIFICATION REVIEW	02/26/15

Professional Engineer Seal for James Branch Smith, State of North Carolina, License No. 034354, dated 06/03/15.

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License: F-1222  
www.mckimcreed.com

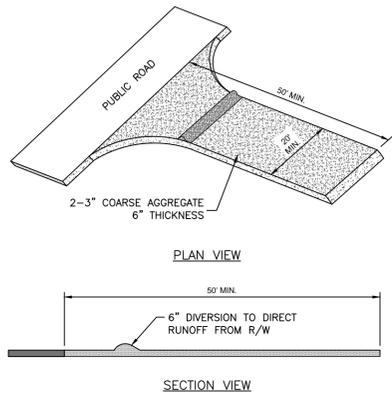
**Carolina Marine Terminal**  
3330 River Road  
Wilmington, NC 28412

**CAROLINA MARINE TERMINAL**  
TERMINAL EXPANSION (2015)  
Wilmington, NC  
**GRADING, DRAINAGE, & EROSION CONTROL PLAN**

DATE: 4/2/2015	SCALE: HORIZONTAL: 1"=30'	MAC FILE NUMBER: CG101
MCE PROJ.#: 3057-0014	VERTICAL: NA	DRAWING NUMBER: C-1
DRAWN: JBS		4 of 6
DESIGNED: JBS		
CHECKED: RMC		
PROJ. MGR.: RMC		
STATUS: ISSUED FOR COW CONSTRUCTION RELEASE		REVISION: D

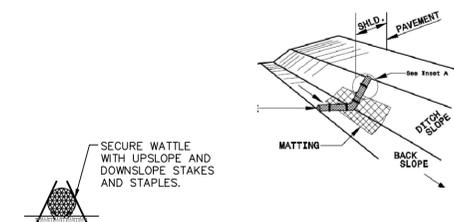
## EROSION CONTROL MAINTENANCE

- ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE CHECKED FOR STABILITY AND OPERATION FOLLOWING EVERY RUNOFF-PRODUCING RAINFALL, BUT IN NO CASE, LESS THAN ONCE EVERY WEEK AND WITHIN 24 HOURS OF EVERY HALF INCH RAINFALL.
- ALL POINTS OF EGRESS WILL HAVE CONSTRUCTION ENTRANCES/EXITS THAT WILL BE PERIODICALLY TOP-DRESSED WITH 2-3" COARSE STONE TO MAINTAIN 6" THICKNESS. ENTRANCES/EXITS WILL BE MAINTAINED IN A CONDITION TO PREVENT MUD OR SEDIMENT FROM LEAVING THE SITE. IMMEDIATELY REMOVE OBJECTIONABLE MATERIAL SPILLED, WASHED, OR TRACKED ONTO THE CONSTRUCTION ENTRANCE/EXIT OR PUBLIC ROADWAYS. (NCDENR PRACTICE 6.06)
- SEDIMENT WILL BE REMOVED FROM BEHIND THE SEDIMENT FENCE WHEN IT BECOMES HALF-FILLED. THE SEDIMENT FENCE WILL BE REPAIRED AS NECESSARY TO MAINTAIN A BARRIER. STAKES MUST BE STEEL. STAKE SPACING WILL BE 6 FEET MAX. WITH THE USE OF EXTRA STRENGTH FABRIC, WITHOUT WIRE BACKING. STAKE SPACING WILL BE 8 FEET MAX. WHEN STANDARD STRENGTH FABRIC AND WIRE BACKING ARE USED. IF ROCK FILTERS ARE DESIGNED AT LOW POINTS IN THE SEDIMENT FENCE THE ROCK WILL BE REPAIRED OR REPLACED IF IT BECOMES HALF FULL OF SEDIMENT, NO LONGER DRAINS AS DESIGNED OR IS DAMAGED. (NCDENR PRACTICE 6.62)
- SEDIMENT WILL BE REMOVED FROM HARDWARE CLOTH AND GRAVEL INLET PROTECTIONS WHEN THE SEDIMENT REACHES HALF OF THE DEPTH TO THE TOP OF THE ROCK. ROCK WILL BE CLEANED OR REPLACED WHEN THE SEDIMENT CONTROL MEASURE NO LONGER DRAINS AS INTENDED. REMOVE DEBRIS FROM THE ROCK AS NECESSARY TO ALLOW FOR PROPER DRAINAGE. (NCDENR PRACTICES 6.51)
- ALL SEEDED AREAS WILL BE FERTILIZED, RE-SEEDED AS NECESSARY AND MULCHED ACCORDING TO SPECIFICATIONS IN THE VEGETATIVE PLAN TO MAINTAIN A VIGOROUS, DENSE VEGETATIVE COVER. THE ANGLE FOR GRADED SLOPES AND FILLS SHALL BE NO GREATER THAN THE ANGLE THAT CAN BE RETAINED BY VEGETATIVE COVER OR OTHER ADEQUATE EROSION CONTROL DEVICES OR STRUCTURES. IN ANY EVENT, SHORT, FLAT SLOPES (FLATTER THAN 3:1 AND LESS THAN 50') LEFT EXPOSED WILL, WITHIN 14 CALENDAR DAYS OF COMPLETION OF ANY GRADING, BE PLANTED OR OTHERWISE PROVIDED WITH TEMPORARY OR PERMANENT GROUND COVER, DEVICES, OR STRUCTURES SUFFICIENT TO RESTRAIN EROSION. ALL OTHER AREAS SHOULD BE STABILIZED WITHIN 7 DAYS AFTER ANY PHASE OF ACTIVITY.
- INSPECT DIVERSION DITCHES AND MAKE REPAIRS IF NECESSARY. REMOVE SEDIMENT ACCUMULATION DURING CONSTRUCTION. IF ROLLED EROSION CONTROL BLANKETS OR OTHER LININGS ARE SPECIFIED FOR THE DIVERSION DITCHES AND SWALES, MAINTAIN LINING FOR TEMPORARY MEASURES. INSPECT WATTLES AND REMOVE SEDIMENT ACCUMULATION OR DEBRIS BEHIND WATTLES. REGRADE DITCHES IF WATER WASHES OUT AROUND WATTLES AND REPLACE WATTLES AS NECESSARY (NCDENR PRACTICES 6.17, 6.20, 6.21, AND 6.30).
- INSPECT CHECK DAMS AND MAINTAIN DESIGN DIMENSIONS AS NECESSARY. REMOVE SEDIMENT ACCUMULATION OR DEBRIS BEHIND CHECK DAMS AND REGRADE DITCHES IF WATER WASHES OUT AROUND CHECK DAMS. REPLACE SEDIMENT CLOGGED FILTER GRAVEL ON CHECK DAMS AND ROCK INLET PROTECTIONS. MAINTAIN DESIGN DIMENSIONS FOR ROCK INLET PIPE PROTECTION AND OUTLET PROTECTIONS. (NC PRACTICES 6.87, 6.55, AND 6.41)



## TEMPORARY CONSTRUCTION ENTRANCE

NOT TO SCALE  
NCDENR PRACTICE STD. 6.06



- NOTES:
- USE MINIMUM 12" DIA. EXCELSIOR WATTLE.
  - USE 2"x2" WOODEN STAKES 2-FT IN LENGTH ON THE UPSLOPE AND DOWNSLOPE AT AN ANGLE TO WEDGE THE WATTLE TO THE BOTTOM OF THE SWALE.
  - STAPLE EVERY 1 LF ON BOTH SIDES OF THE WATTLE TO SECURE IT TO THE BOTTOM OF THE SWALE.

## TEMPORARY WATTLE (CHECK DAM)

NOT TO SCALE  
NCDOT PRACTICE

## VEGETATION PLAN SPECIFICATIONS

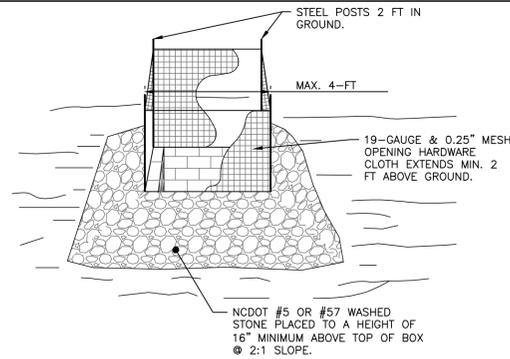
- ALL DISTURBED AREAS SHALL BE DRESSED TO THE EXISTING TYPICAL SECTION AND TILLED OR RIPPED TO A MIN. DEPTH OF 4-INCHES. THE TOP 2 INCHES SHALL BE PULVERIZED TO PROVIDE A UNIFORM SEEDBED.
- LIME AND FERTILIZER SHOULD BE INCORPORATED INTO THE SOIL PRIOR TO SEEDING OR SOD. FOLLOW SOIL TESTS OR AS FOLLOWS:  
AGRICULTURAL LIMESTONE - 2 TONS/ACRE  
FERTILIZER - 1000 LBS/ACRE (10-10-10)  
SUPERPHOSPHATE - 500 LBS/ACRE (20%)  
MULCH - 2 TONS/ACRE (SMALL GRAIN STRAW)  
ANCHOR - ASPHALT EMULSION AT 450 GAL/ACRE
- FOR OPEN AREAS, USE STRAW MULCH AS A MINIMUM FOR STABILIZATION IF THE AREAS CANNOT BE SEEDED ACCORDING TO THE PLANTING DATES. OTHER MULCHING PRACTICES ARE LISTED IN SECTION 6.14 OF THE EROSION CONTROL MANUAL FOR MULCHING.
- FOR DITCHES AND SLOPES, USE EXCELSIOR MATTING AS A MINIMUM FOR STABILIZATION IF THE AREAS CANNOT BE SEEDED ACCORDING TO THE PLANTING DATES. OTHER MATTING PRACTICES ARE LISTED IN SECTION 6.14 OF THE EROSION CONTROL MANUAL FOR MULCHING.
- CHEMICAL STABILIZERS MAY BE USED, BUT IT IS NOT RECOMMENDED FOR VEGETATION GROWTH. REFER TO THE EROSION CONTROL MANUAL FOR A LIST OF STABILIZERS AND FOLLOW MANUFACTURER'S SPECIFICATIONS.
- THE FOLLOWING TABLES ARE REFERENCED FROM NC EROSION CONTROL MANUAL SEC. 6.10 AND 6.11, AND THE STABILIZATION TABLE IS REFERENCED FROM NPDES NCG 010000.

### TEMPORARY SEEDING

GRASS TYPE	AMOUNT/ 1000 S.F.	TIME OF SEEDING	INITIAL
RYE GRAIN	1-2 LBS.	APRIL - JUNE	25 LBS. 10-10-10
BROWNTOP MILLET	1-2 LBS	JUNE - AUGUST	25 LBS 10-10-10

### PERMANENT SEEDING

GRASS TYPE	AMOUNT/ 1000 S.F.	TIME OF SEEDING	INITIAL
BERMUDA COMMON	1-2 LBS.	APRIL - JUNE	25 LBS. 10-10-10
FESCUE, TALL (KENTUCKY 31)	5-7 LBS	JUNE - AUGUST FEB. - OCT.	25 LBS 10-10-10
SERICA LESPEDeza (SLOPES)	1-2 LBS	MARCH - APRIL	25 LBS 10-10-10

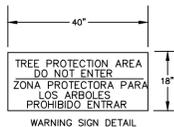
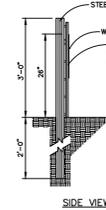
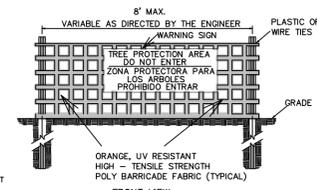


### NOTES:

- DRIVE 5-FOOT STEEL POSTS (1.25 lb/ft steel) 2 FEET INTO THE GROUND SURROUNDING THE INLET. SPACE POSTS EVENLY AROUND THE PERIMETER OF THE INLET, A MAXIMUM OF 4 FEET APART.
- SURROUND THE POSTS WITH AT LEAST 19-GAUGE HARDWARE CLOTH WITH A 1/4-INCH MESH OPENING. SECURE THE WIRE MESH TO THE STEEL POSTS AT THE TOP, MIDDLE, AND BOTTOM FOR A MIN. 2 FEET ABOVE THE GROUND. PLACING A 2-FOOT FLAP OF THE WIRE MESH UNDER THE GRAVEL FOR ANCHORING AND REMOVAL IS RECOMMENDED.
- UNIFORMLY GRADE A SHALLOW DEPRESSION APPROACHING THE INLET. THE TOP ELEVATION OF THE STRUCTURE MUST BE AT LEAST 12-INCHES LOWER THAN THE SURROUNDING GROUND ELEVATION DOWNSLOPE FROM THE INLET TO ENSURE THAT STORM FLOWS GET INTO THE INTENDED INLET; UNLESS OTHER SEDIMENT-CONTROL DEVICES ARE INSTALLED TO PREVENT OFF-SITE SEDIMENT-RUNOFF.

## TEMPORARY INLET PROTECTION

NOT TO SCALE  
NCDENR PRACTICE STD. 6.51

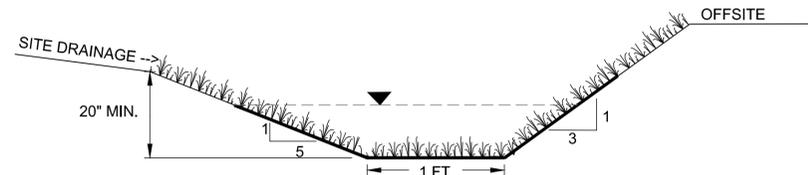


### NOTES:

- THE TREE PROTECTION FENCING SHALL NOT BE VIOLATED FOR THE ENTIRE DURATION OF THE PROJECT WITHOUT APPROVAL FROM URBAN FORESTRY STAFF.
- WARNING SIGNS TO BE MADE OF DURABLE, WEATHERPROOF MATERIAL. LETTERS TO BE 3" HIGH, MINIMUM, CLEARLY LEGIBLE AND SPACED AS DETAILED.
- SIGNS SHALL BE PLACED AT 50' MAXIMUM INTERVALS. PLACE A SIGN AT EACH END OF LINEAR TREE PROTECTION AND 50' ON CENTER THEREAFTER. FOR TREE PROTECTION AREAS LESS THAN 100' IN PERIMETER, PROVIDE NO LESS THAN TWO SIGNS PER PROTECTION AREA.
- ATTACH SIGNS SECURELY TO FENCE POSTS AND FABRIC. MAINTAIN TREE PROTECTION FENCE AND SIGNS THROUGHOUT DURATION OF PROJECT.
- TREE PROTECTION FENCING AND SIGNAGE SHALL BE REMOVED AFTER CONSTRUCTION.
- ADDITIONAL SIGNS MAY BE REQUIRED BY CITY OF WILMINGTON, BASED ON ACTUAL FIELD CONDITIONS.

## CITY OF WILMINGTON TREE PROTECTION FENCING

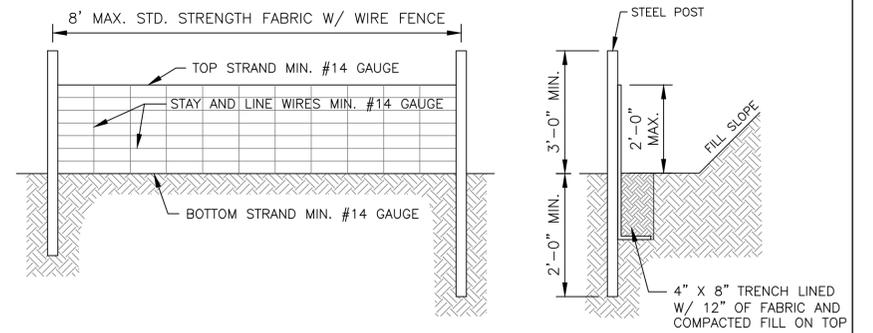
NOT TO SCALE  
CITY OF WIL STD. 15-09



- NOTES:
- BOTTOM WIDTH MAY BE 0-FT; THEREFORE NOTED AS A V-DITCH.

## PERMANENT GRASS SWALE

NOT TO SCALE

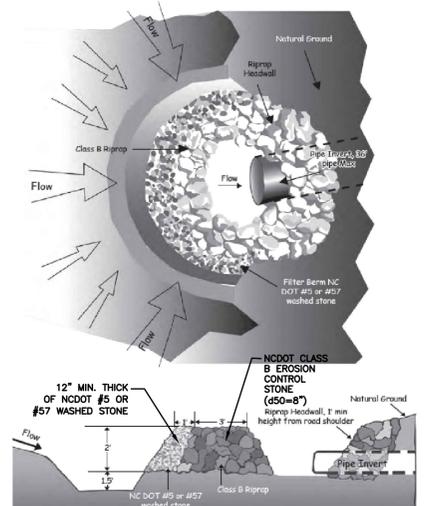


### NOTES:

- WIRE FENCE (IF USED) SHALL BE MINIMUM 14 GAUGE WITH A MAXIMUM MESH OPENING OF 6-INCHES.
- SYNTHETIC FILTER FABRIC OF AT LEAST 95% BY WEIGHT OF POLYOLEFIN'S OR POLYESTER, WHICH IS CERTIFIED BY THE MANUFACTURER OR SUPPLIER AS CONFORMING TO THE REQUIREMENTS IN ASTM D 6461 AND ALSO SHOULD CONTAIN ULTRAVIOLET RAY INHIBITORS AND STABILIZERS ACCORDING TO ASTM D 4355.
- SEE THE NC EROSION CONTROL MANUAL FOR SPECIFICATIONS INSTALLING SEDIMENT FENCE USING THE SLICING METHOD MACHINERY.

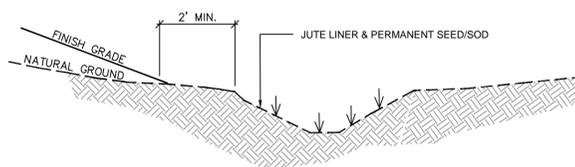
## TEMPORARY SILT FENCE

NOT TO SCALE  
NCDENR PRACTICE STD. 6.62



## TEMPORARY ROCK PIPE INLET PROTECTION

NOT TO SCALE  
NCDENR PRACTICE STD. 6.55



### NOTES:

- TEMP. DIVERSION DITCHES SHALL BE CONVERTED INTO PERMANENT CONVEYANCE SWALES THEREFORE LOCATE AS INDICATED THE FIRST TIME.
- LINING SHALL BE JUTE OR BIODEGRADABLE MATTING AND INSTALLED ACCORDING TO NCDENR STD. EROSION CONTROL PRACTICES.

## TEMPORARY DIVERSION DITCH

NOT TO SCALE  
NCDENR PRACTICE STD. 6.22

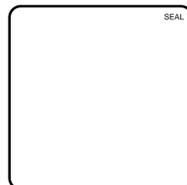
For each open utility cut of City streets, a \$325 permit shall be required from the City prior to occupancy and/or project acceptance.

1 inch

STORMWATER MANAGEMENT PLAN  
APPROVED  
CITY OF WILMINGTON  
ENGINEERING DEPARTMENT  
DATE \_\_\_\_\_ PERMIT # \_\_\_\_\_  
SIGNED \_\_\_\_\_

Approved Construction Plan  
Name \_\_\_\_\_ Date \_\_\_\_\_  
Planning \_\_\_\_\_  
Traffic \_\_\_\_\_  
Fire \_\_\_\_\_

REV. NO.	DESCRIPTIONS	DATE
D	TRC SUBMITTAL No. 3	08/03/15
C	TRC SUBMITTAL No. 2	05/19/15
B	ISSUED FOR CONSTRUCTION	02/09/15
A	ISSUED FOR CDMA MINOR MODIFICATION REVIEW	02/27/15

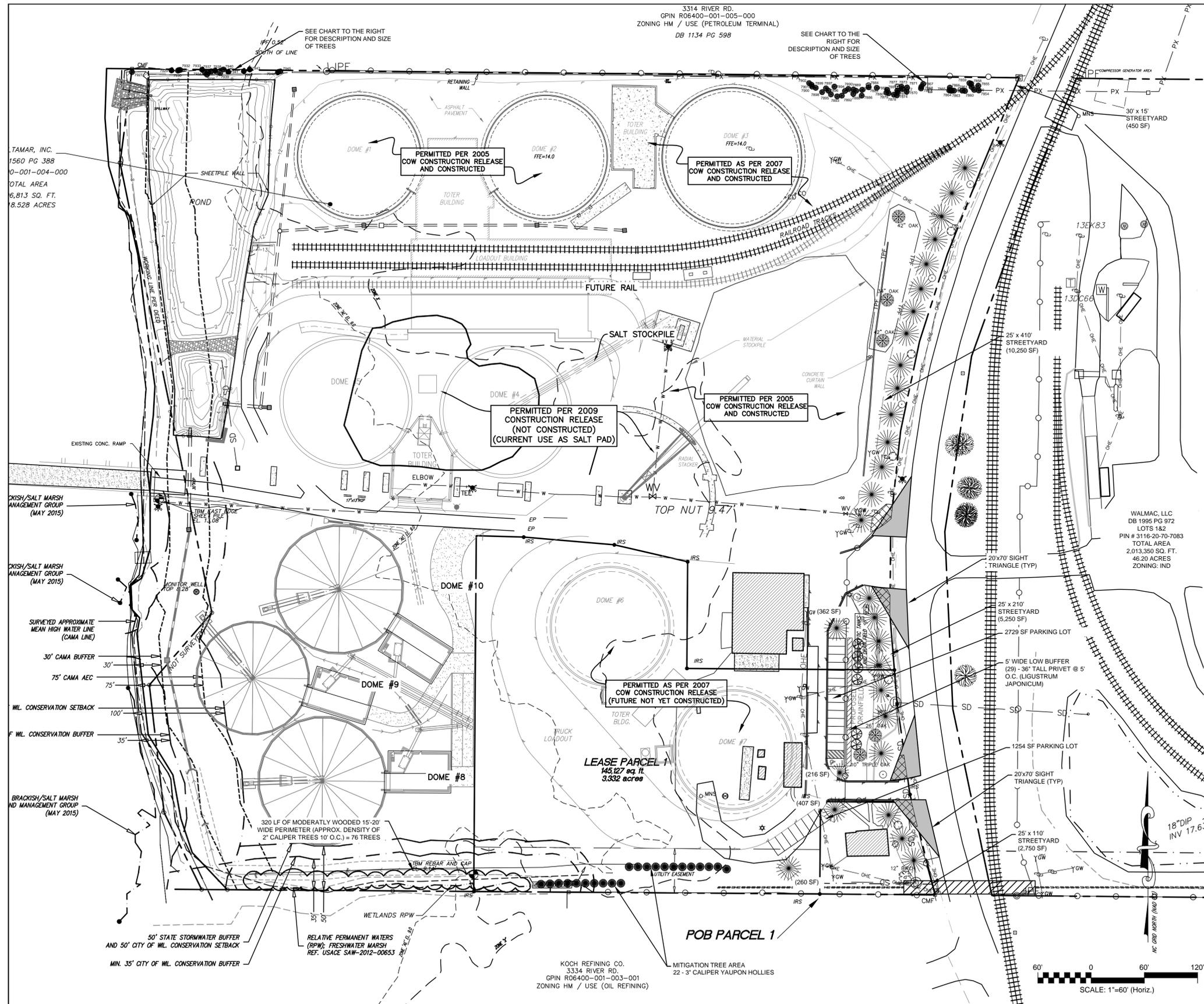


**MCKIM & CREED**  
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Wilmington, NC 28412

**CAROLINA MARINE TERMINAL**  
TERMINAL EXPANSION (2015)  
Wilmington, NC  
EROSION CONTROL & TREE SAVE DETAILS

DATE:	4/2/2015 <th>SCALE:</th> <td>HORIZONTAL: NA VERTICAL: NA</td> <th>MAC FILE NUMBER:</th> <td>CE501 </td>	SCALE:	HORIZONTAL: NA VERTICAL: NA	MAC FILE NUMBER:	CE501
MCE PROJ. #	3057-0014	DRAWN	JBS	DRAWING NUMBER	C-2
DESIGNED	JBS	CHECKED	RMC		5 of 6
PROJ. MGR.	RMC				
STATUS:	ISSUED FOR COW CONSTRUCTION RELEASE	REVISION	D		



NUMBER	DESCRIBE
7854	LOAK 3
7855	LOAK 4
7856	LOAK 5
7857	LOAK 14
7858	LOAK 2
7859	LOAK 2
7860	LOAK 8
7861	LOAK 2
7862	LOAK 2
7863	LOAK 6
7864	LOAK 3
7865	LOAK 5
7866	LOAK 3
7867	LOAK 3
7868	LOAK 4
7869	LOAK 4
7870	LOAK 3 TWIN
7871	LOAK 3 TWIN
7872	LOAK 3
7873	LOAK 2
7874	LOAK 3
7875	LOAK 2
7876	LOAK 2
7877	HICKORY 5
7878	LOAK 9
7879	LOAK 4
7880	LOAK 4
7881	LOAK 2
7882	LOAK 4
7883	LOAK 4
7884	HICKORY 4
7885	LOAK 2
7886	LOAK 5 TWIN
7887	LOAK 2
7888	LOAK 7
7889	LOAK 4
7890	LOAK 3
7891	LOAK 2
7892	LOAK 3 TWIN
7893	LOAK 3
7894	LOAK 3
7895	LOAK 4
7896	LOAK 6
7897	LOAK 3
7898	LOAK 2
7899	LOAK 4
7900	LOAK 4
7901	LOAK 2
7902	LOAK 3
7927	LOAK 6
7929	MAPLE 3
7930	OAK 2
7931	OAK 10
7932	OAK 3
7933	MAPLE 4
7934	LOAK 4
7935	LOAK 2
7936	LOAK 3
7937	LOAK 4
7938	MAPLE 4
7939	LOAK 14
7940	LOAK 2
7941	MAPLE 6
7942	MAPLE 4
7943	MAPLE 2
7944	MAPLE 2
7945	LOAK 6

**LANDSCAPE NOTES**

- TREES REQUIRED
  - SEE 2009 APPROVED SITE-LANDSCAPE PLAN
- SIGNIFICANT TREES
  - TREE DBH REMOVED = NONE
- REGULATED TREES
  - TREE CALIPER REMOVED = 12"
  - NO REPLACEMENT - ESSENTIAL SITE IMPROVEMENT/ RAILROAD DESIGN CRITERIA
- STREET YARD
  - STREET YARD REQUIRED = 17,500 SF
  - STREET YARD PROVIDED = 18,250 SF (700 LF x 25') (MIN WIDTH 12.5', MAX WIDTH 37.5')
  - TREES PROVIDED = 25 PLANTED, 4 PRESERVED SHRUBS PROVIDED = 177
- VEHICULAR USE AREAS
  - EXISTING IMPERVIOUS = 23,255 SF
  - PROPOSED IMPERVIOUS = 47,630 SF
  - TOTAL = 70,885 x 8% = 5,671 SF
  - 5,671 SF / 144 = 39 TREES W/ GROUND COVER LOCATED ALONG RIVER
- SETBACKS
 

FRONT = 50'  
SIDE = 0'  
REAR = 0'
- PERIMETER AND SIGNIFICANT TREES REMOVED FOR ESSENTIAL SITE IMPROVEMENTS AND RAIL DESIGN CRITERIA.
- THE CREATIVE LANDSCAPE STANDARD IS BEING USED TO MEET THE STREET YARD REQUIREMENTS AND 50% OF THE REQUIRED STREET YARD AREA WILL BE COVERED WITH TREES AND SHRUBS.
- 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.
- NO LAND DISTURBANCE INCLUDING TREE REMOVAL IS TO OCCUR OUTSIDE THE LIMITS OF DISTURBANCE SHOWN ON PLANS. NO LAND DISTURBANCE IS PERMITTED ON SITE UNTIL A TREE PERMIT IS ISSUED IN CONJUNCTION WITH A COUNTY LAND CLEARING PERMIT, CITY GRADING AND CLEARING PERMIT, AND ANY REQUIRED STATE AND FEDERAL PERMITS.
- NO EQUIPMENT IS ALLOWED ON THE SITE UNTIL ALL TREE PROTECTION FENCING AND SILT FENCING HAS BEEN INSTALLED AND APPROVED.
- TREE PROTECTION FENCING IS TO BE MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT AND LAND CLEARING AND CONSTRUCTION CONTRACTORS SHALL RECEIVE ADEQUATE INSTRUCTION ON TREE PROTECTION REQUIREMENTS AND METHODS.

REF. SHEET C-2 FOR TREE PROTECTION FENCING DETAILS.

**LEGEND**

- EXISTING TREE TO BE PRESERVED
- EXISTING TREE TO BE REMOVED
- PROPOSED HIGH RISE LIVE OAK - 25' 3" CALIPER STREET TREE, 4.3" CALIPER INTERIOR TREE (QUERCUS VIRGINIANA 'HIGH RISE')
- PROPOSED YAUPOON HOLLY - 22' 3" CALIPER MITIGATION TREE (ILEX VOMITORIA)
- PROPOSED CRAPE MYRTLE - 6' 7" GALL (LAGERSTROEMIA INDICA 'ACOMA')
- PROPOSED EVERGREEN EUONYMUS 5 @ 18' HT (EUONYMUS JAPONICA)
- PROPOSED GLOSSY ABELIA 13 SHRUBS / GROUPING = 5 GROUPINGS OF 13 = 65 @ 18' HT (ABELIA GRANDIFLORA)
- PROPOSED SHORE JUNIPER 13 SHRUBS / GROUPING = 4 GROUPINGS OF 13 = 52 (JUNIPERUS CONFERTA)

**STORMWATER MANAGEMENT PLAN APPROVED**  
CITY OF WILMINGTON  
ENGINEERING DEPARTMENT  
DATE \_\_\_\_\_ PERMIT # \_\_\_\_\_  
SIGNED \_\_\_\_\_

**Approved Construction Plan**

Name	Date
Planning	
Traffic	
Fire	

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

REV. NO.	DESCRIPTIONS	DATE
D	TRC SUBMITTAL NO. 3	08/03/15
C	TRC SUBMITTAL NO. 2	05/18/15
B	ISSUED FOR CON. TRC.	4/28/15
A	ISSUED FOR CAMA MINOR MODIFICATION REVIEW	4/22/15

SEAL

**NORTH CAROLINA PROFESSIONAL ENGINEER**  
JAMES BRANCH SMITH  
03435  
06/03/15

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**CAROLINA MARINE TERMINAL**  
TERMINAL EXPANSION (2015)  
Wilmington, NC  
**OVERALL LANDSCAPE PLAN**

DATE:	4/2/2015	SCALE:	1"=60'	MAC FILE NUMBER:	CL101
MCE PROJ. #:	3057-0014	HORIZONTAL:	1"=60'	DRAWING NUMBER:	C-3
DRAWN:	JBS	VERTICAL:	NA		6 of 6
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STATUS: ISSUED FOR COW CONSTRUCTION RELEASE					REVISION: D