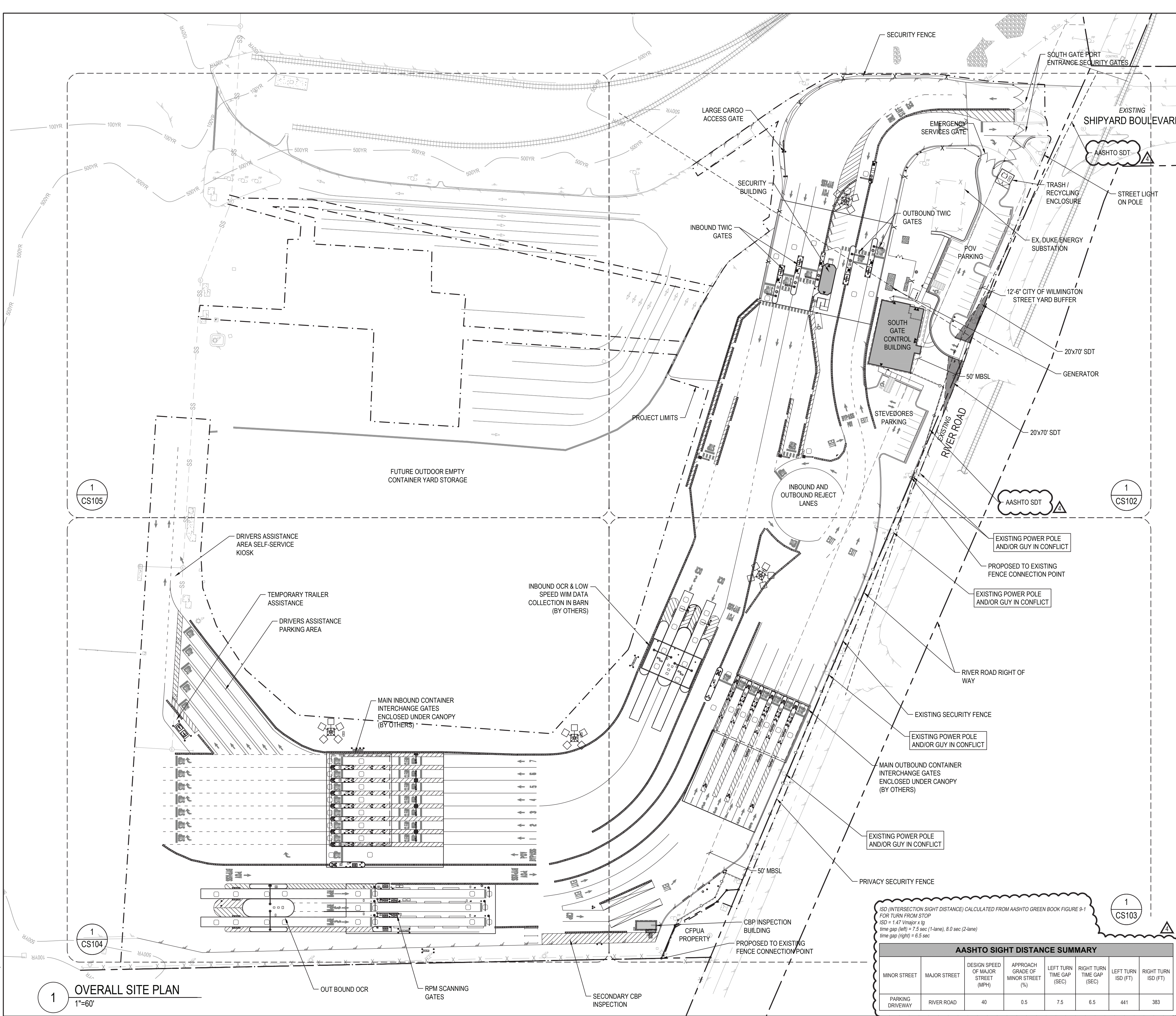


FILE: Z:\Projects\Exhale\2018\2018\_053\_Wilmington Ports - Wilmington\Plan\Construction Drawings\Sheet Files\CS-01 OVERALL SITE PLAN.dwg  
 PLOTTED: Thursday, June 10, 2021 5:17:04 PM



**1 OVERALL SITE PLAN**  
 1"=60'

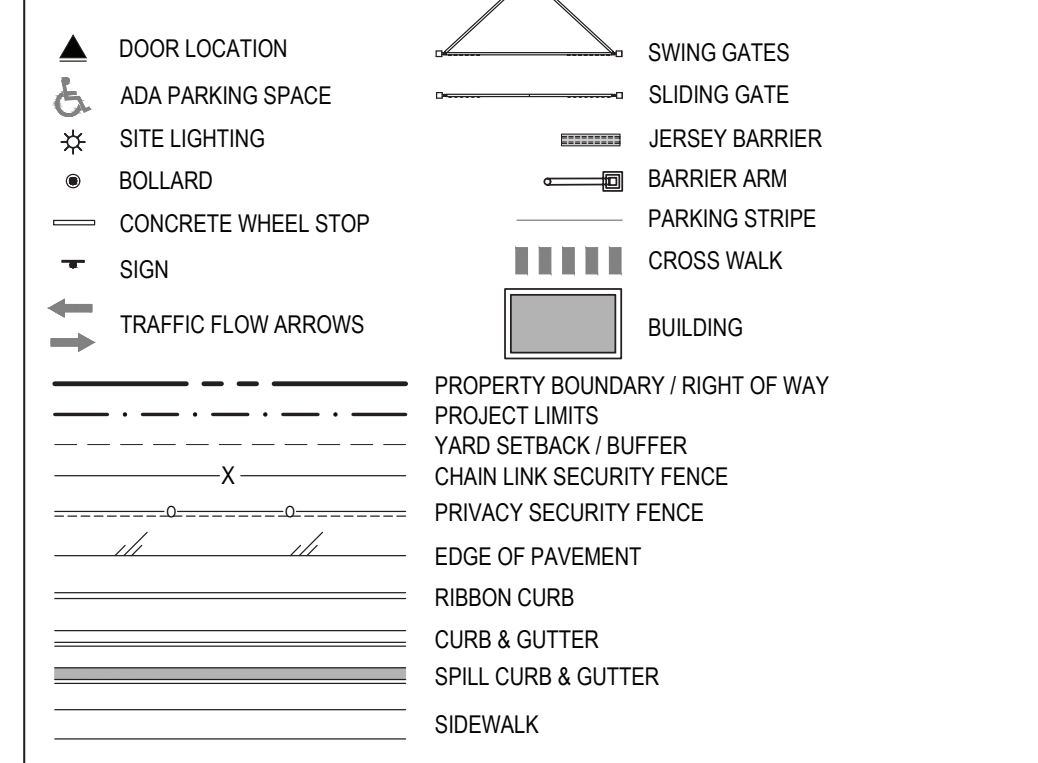
ISD (INTERSECTION SIGHT DISTANCE) CALCULATED FROM AASHTO GREEN BOOK FIGURE 9-1  
 FOR TURN FROM STOP  
 $ISD = 1.47 \times V_{major} \times t_p$   
 $t_p$  (sec) (left) = 7.5 sec (1-lane), 8.0 sec (2-lane)  
 $t_p$  (sec) (right) = 6.0 sec

MINOR STREET	MAJOR STREET	DESIGN SPEED OF MAJOR STREET (MPH)	APPROACH GRADE OF MINOR STREET (%)	LEFT TURN TIME GAP (SEC)	RIGHT TURN TIME GAP (SEC)	LEFT TURN ISD (FT)	RIGHT TURN ISD (FT)
PARKING DRIVEWAY	RIVER ROAD	40	0.5	7.5	6.5	441	383

**GENERAL NOTES**

- \*\*\*THE FOLLOWING NOTES SHALL BE RELEVANT FOR ALL SITE PLAN (CS) SHEETS\*\*\*
- ALL DIMENSIONS SHALL BE IN FEET AND TO FACE OF CURB OR EDGE OF PAVEMENT UNLESS OTHERWISE NOTED. ALL RADII TO BE 5-FT UNLESS OTHERWISE NOTED.
  - ALL SITE ELEMENTS ARE PERPENDICULAR TO ONE ANOTHER UNLESS OTHERWISE NOTED.
  - ANY SAW CUTTING OF EXISTING PAVEMENT SHALL BE DONE BY SAW CUTTING FULL DEPTH. SAW CUTS SHALL BE NEAT AND STRAIGHT.
  - ALL NEW ASPHALT SHALL BE TRANSITION TO EXISTING ASPHALT WITH A BUTT TYPE JOINT WITH A SMOOTH TRANSITION.
  - REFER TO ARCHITECTURE PLANS FOR BOLLARDS AT BUILDING DOORS AND CORNERS.
  - SECURITY GATES SHALL HAVE THE FOLLOWING REQUIREMENTS:
    - MANUAL LOCKING MECHANISMS, SUCH AS PADLOCKS, SHALL BE KNOX BRAND OR APPROVED EQUAL (APPROVAL MUST COME FROM NC PORT AUTHORITY).
    - ALL MANUALLY OPERATED GATES SHALL REMAIN IN THE OPEN POSITION WHEN LEFT UNATTENDED. ACTIVATION OF AN APPROVED KEY SWITCH FOR ELECTRONICALLY CONTROLLED GATE SHALL OPEN THE GATE AND CAUSE IT TO REMAIN IN THE OPEN POSITION UNTIL RESET BY THE EMERGENCY RESPONSE PERSONNEL.
    - WHEN OPEN, GATES SHALL NOT OBSTRUCT ANY PORTION OF THE REQUIRED WIDTH OF THE DRIVEWAY OR ACCESS ROAD. SHALL BE ADEQUATELY SUPPORTED TO PREVENT DRAGGING, AND SHALL BE OPERABLE BY ONE PERSON. SLIDING GATES SHALL SLIDE PARALLEL TO THE SECURITY FENCE. SWING STYLE GATES SHALL OPEN A FULL 90 DEGREES (MINIMUM) AND MAY SWING IN EITHER DIRECTION.
    - GATE COMPONENTS SHALL BE MAINTAINED IN AN OPERATIVE CONDITION AT ALL TIMES AND BE REPLACE OR REPAIRED WHEN DEFECTIVE.
  - REFER TO SHEET CM-101 FOR PAVEMENT MARKING PLAN.
  - BUILDING CANOPIES AND SHELTERS AS SHOWN ON THE PLANS ARE SHOWN GENERAL IN NATURE. FINAL DIMENSIONS, ELEVATIONS, AND MATERIALS OF CANOPIES AND SHELTERS ARE DETERMINED BY ACTUAL MANUFACTURER BASED ON PERFORMANCE BASED SPECIFICATIONS AND BASIS OF DESIGN DOCUMENT. REFER TO SHEETS CS-505 & CS-506 FOR GENERIC DETAILS.
  - ALL MEDIANS WITH BOOTHS & KIOSKS SHALL BE FILLED WITH #57 WASHED STONE UNTIL ALL KIOSKS, BOOTHS, BOLLARDS, LIGHTS, CONDUITS, OR OTHER EQUIPMENT IS INSTALLED.

**LEGEND**



**LIFE SAFETY NOTES**

- CONTRACTOR WILL MAINTAIN AN ALL-WEATHER ACCESS FOR EMERGENCY VEHICLES AT ALL TIMES DURING CONSTRUCTION
- A HYDRANT MUST BE WITHIN 150' OF THE FDC (MEASURED AS THE TRUCK DRIVES FOR PRACTICAL USE)
- FDC MUST BE WITHIN 40' OF FIRE APPARATUS PLACEMENT
- LANDSCAPING OR PARKING CANNOT BLOCK OR IMPEDE THE FDC OR FIRE HYDRANTS. A 3-FOOT CLEAR SPACE SHALL BE MAINTAINED AROUND THE CIRCUMFERENCE OF THE HYDRANT AND FDC
- ADDITIONAL FIRE PROTECTION AND/OR ACCESSIBILITY REQUIREMENTS MAY BE REQUIRED DUE TO
- ANY SPECIAL CIRCUMSTANCES CONCERNING THE PROJECT.
- PRIVATE UNDERGROUND FIRE LINES REQUIRE A SEPARATE UNDERGROUND FIRE LINE PERMIT FROM THE WILMINGTON FIRE AND LIFE SAFETY DIVISION 910-343-0696
- CONTRACTOR SHALL SUBMIT A RADIO SIGNAL STRENGTH STUDY FOR ALL COMMERCIAL BUILDINGS THAT DEMONSTRATES THAT EXISTING EMERGENCY RESPONDER RADIO SIGNAL LEVELS MEET THE REQUIREMENTS OF SECTION 510 OF THE 2018 NC FIRE CODE.
- ALL ISOLATION VALVES WITHIN THE "HOT BOX" AND BETWEEN THE "HOT BOX" AND THE RISER ROOM, MUST BE ELECTRICALLY SUPERVISED.

APP BY: ASP  
 DATE: 3/4/2020  
 CONSTRUCTION REFS: ASP  
 PERMITS: ASP  
 CIPAL DETAIL DATES: 7/1/2020  
 CIPAL COMMENTS: 6/10/2021  
 CONSTRUCTION REVISION: 7/14/2020  
 PERMITS: CONSTRUCTION REVISION: 10/09/2020  
 PERMITS: CONSTRUCTION REVISION: 10/27/2020  
 PERMITS: CONSTRUCTION REVISION: 02/28/2021  
 PERMITS: CONSTRUCTION REVISION: 03/11/2021  
 PERMITS: CONSTRUCTION REVISION: 04/27/2021

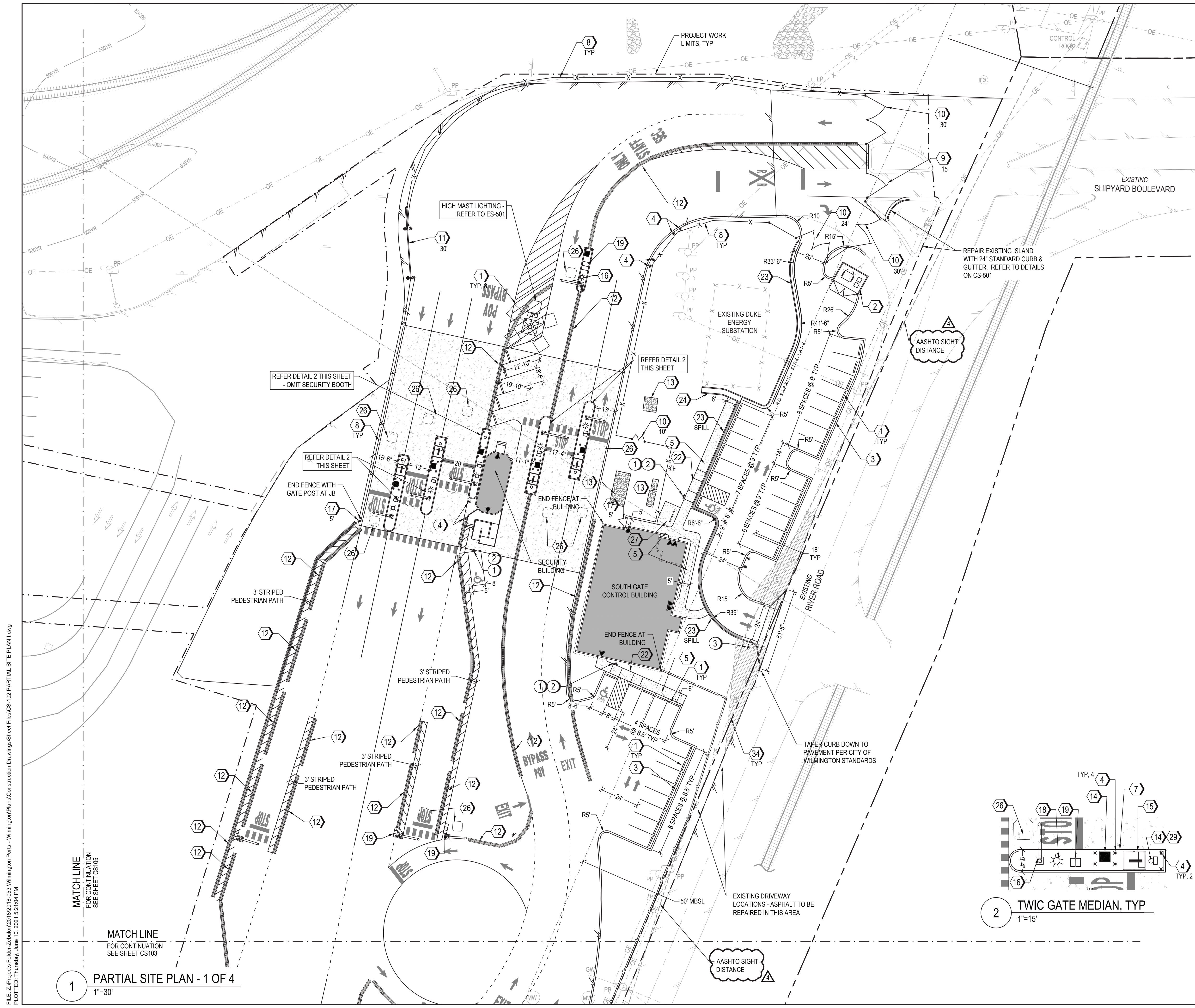
**M M**  
**MOT**  
**MACDONALD**  
 ENGINEERING  
 THE CURRY ENGINEERING GROUP, PLLC  
 FLORENCE, NC 27936  
 P: 919.555.0849  
 F: 919.555.0843  
 N.C. LIC. NO. 12-2799  
 PROJECT MANAGER: R. THOMPSON  
 CHECKED BY: D. CURRY  
 DRAWN BY: D. READ  
 DESIGNED BY: A. PETTY



**NORTH CAROLINA STATE PORTS AUTHORITY**  
 UPGRADES TO SOUTH GATE COMPLEX  
 PORT OF WILMINGTON - 2202 BURNETT BLVD.  
 NCSIPA CONTRACT NO. C-1288(W)  
 SCO ID NO. 19-20013-01A  
 MARK A. BLAKE, P.E., DIRECTOR OF ENGINEERING AND MAINTENANCE  
 OVERALL SITE PLAN

0 30' 60' 1"=60'-0"  
 NORTH (NAD 83)  
 NCSIPA PROJECT NO. 10428  
 SCO ID NO. 19-20013-01A  
 17 JANUARY 2020  
**CS-101**

100% SUBMISSION



### LEGEND

	DOOR LOCATION		SWING GATES
	ADA PARKING SPACE		SLIDING GATE
	SITE LIGHTING		JERSEY BARRIER
	BOLLARD		BARRIER ARM
	CONCRETE WHEEL STOP		PARKING STRIPE
	SIGN		CROSS WALK
	TRAFFIC FLOW ARROWS		BUILDING
	PROPERTY BOUNDARY / RIGHT OF WAY		
	PROJECT LIMITS		
	YARD SETBACK / BUFFER		
	CHAIN LINK SECURITY FENCE		
	PRIVACY SECURITY FENCE		
	EDGE OF PAVEMENT		
	RYBION CURB		
	CURB & GUTTER		
	SPILL CURB & GUTTER		
	SIDEWALK		

### KEYNOTES

**SITE ELEMENTS**

- CONCRETE WHEEL STOP. REFER TO 3/CS-501
- DUMPSTER ENCLOSURE. REFER TO 7/CS-501
- CONCRETE RIBBON CURB. REFER TO 4/CS-501
- CONCRETE FILLED BOLLARD. REFER TO 4/CS-509. 8" DIA / 5' TALL UNLESS OTHERWISE NOTED.
- CONCRETE SIDEWALK. REFER TO 6/CP501
- INTEGRAL CONCRETE SIDEWALK & CURB. REFER TO 6/CP501
- CONCRETE HEADER CURB. REFER TO 5/CS-501
- CHAIN LINK SECURITY FENCE. REFER TO 1/CS-502
- SINGLE SWING GATE. REFER TO 2/CS-504
- DOUBLE WIDE SWING GATES. REFER TO 1/CS-503
- SLIDING GATE. REFER TO 1/CS-504
- CONCRETE JERSEY BARRIERS. REFER TO 9/CS-501
- CONCRETE PAD FOR GENERATOR / TRANSFORMER / ELECTRICAL EQUIPMENT. REFER TO ELECTRICAL PLANS.
- SYSTEM EQUIPMENT, BY OTHERS
- MARSEC SECURITY BOOTH. REFER TO SPECIFICATIONS
- BARRIER ARM. REFER TO SPECIFICATIONS
- 5-FT PERSONNEL GATE - BIOMETRIC CARD READERS & AUTOLOCKS. REFER TO 2/CS-504
- TRAFFIC LIGHT & CAMERAS. REFER TO ELECTRICAL PLANS
- POWER & COMMUNICATIONS HAND HOLES. REFER TO ELECTRICAL PLANS
- SITE LIGHT. REFER TO ELECTRICAL PLANS
- TEMPORARY SUPPORT TRAILER
- INSTALL INLINE RAMP WITH DETECTABLE DOMES. REFER TO 7/CP501
- CONCRETE CURB & GUTTER - 24" WIDE. REFER TO 5/CS-501
- CONCRETE FLUME - 36" WIDE. REFER TO 8/CS501
- OPEN SHELTER - REFER TO ARCHITECTURAL PLANS
- DETECTOR LOOP. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
- U-SHAPED BIKE RACKS - QTY 3 WITH 2 BIKE PER RACK CAPACITY
- WEIGH IN MOTION (WIM) SCALES. REFER TO SPECIFICATIONS.
- NEMA CABINET BY OTHERS
- ELECTRICAL RACK PROTECT WITH BOLLARDS
- ELECTRICAL TRANSFORMER. REFER TO ELECTRICAL PLANS
- SIGNAL CONTROL T-POLE / L-POLE. PROTECT WITH 4 BOLLARDS. REFER TO S-706
- CAVSS CAMERA - ROHN TOWER. REFER TO S-704.
- PRIVACY SECURITY FENCE. REFER TO 3/CS-504.

**SIGN ELEMENTS**

- ACCESSIBILITY PARKING SIGN. REFER TO 1/CS-501
- VAN ACCESSIBILITY PARKING SIGN. REFER TO 1/CS-501
- HIGH INTENSITY SHEETING STOP SIGN. REFER TO 1/CS-501

REV	DESCRIPTION	DATE	APP BY
1	CONSTRUCTION SETS	3/4/2020	ASP
2	PERMITTING COMMENTS	6/12/2020	ASP
3	CFPA DETAIL DATES	7/14/2020	ASP
4	CONSTRUCTION REVISION	7/14/2020	ASP
5	CONSTRUCTION REVISION	8/06/2020	ASP
6	CONSTRUCTION REVISION	10/09/2020	ASP
7	CONSTRUCTION REVISION	10/27/2020	ASP
8	CONSTRUCTION REVISION	11/02/2021	ASP
9	CONSTRUCTION REVISION	03/11/2021	ASP
10	CONSTRUCTION REVISION	03/11/2021	ASP
11	CONSTRUCTION REVISION	04/27/2021	ASP

**Curry ENGINEERING**  
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 FLUQUAY, VA, NC 27566  
 P: 819.652.5045  
 F: 819.652.5045

PROJECT MANAGER: R. THOMPSON  
 CHECKED BY: D. CURRY  
 DRAWN BY: D. READ  
 DESIGNED BY: A. PETTY

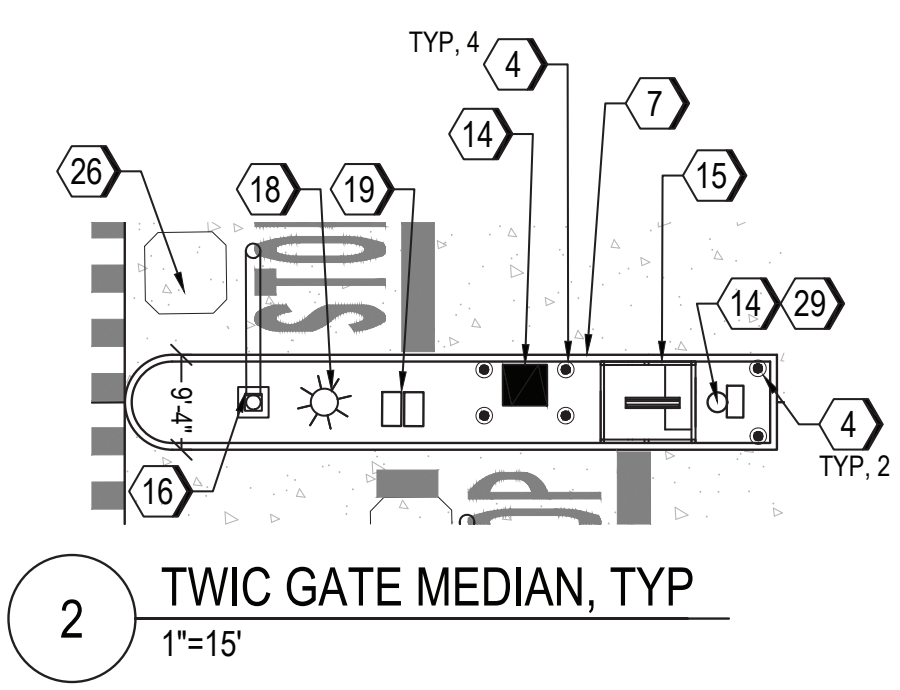
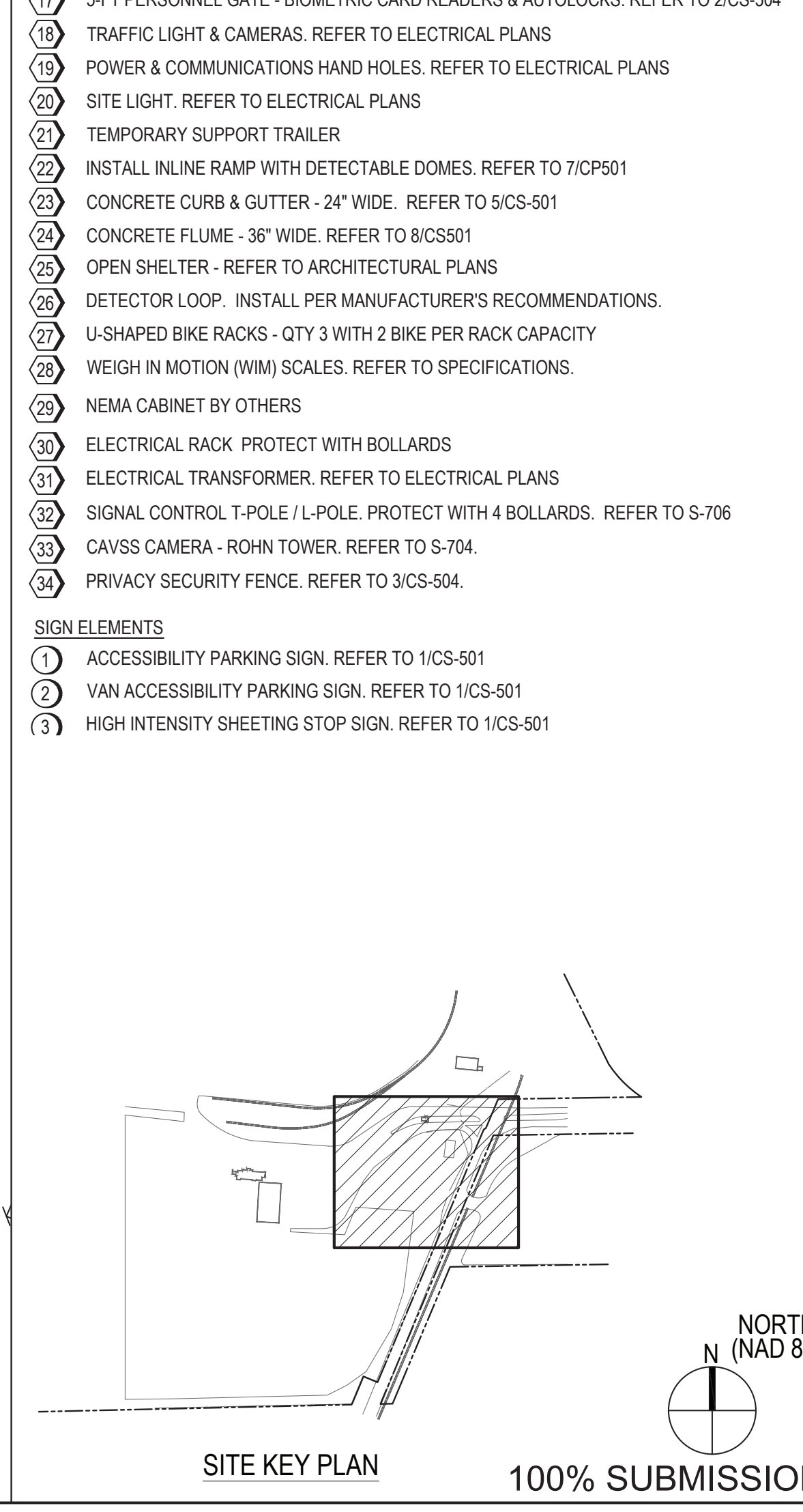
NC LIC. NO. P-2792  
 MOTT MACDONALD  
 MOTT MACDONALD  
 1000 W. GARDNER STREET  
 FAYETTEVILLE, NC 27566  
 LICENSE NO. F-0669  
 WWW.MOTTMAC.COM

**NORTH CAROLINA PORTS**

**NORTH CAROLINA STATE PORTS AUTHORITY**  
 UPGRADES TO SOUTH GATE COMPLEX  
 PORT OF WILMINGTON - 2202 BURNETT BLVD.  
 NCSIPA CONTRACT NO. C-1289(W)  
 SCO ID NO. 19-20013-01A  
 MARK A. BLAKE, P.E., DIRECTOR OF ENGINEERING and MAINTENANCE

PARTIAL SITE PLAN - 1 OF 4

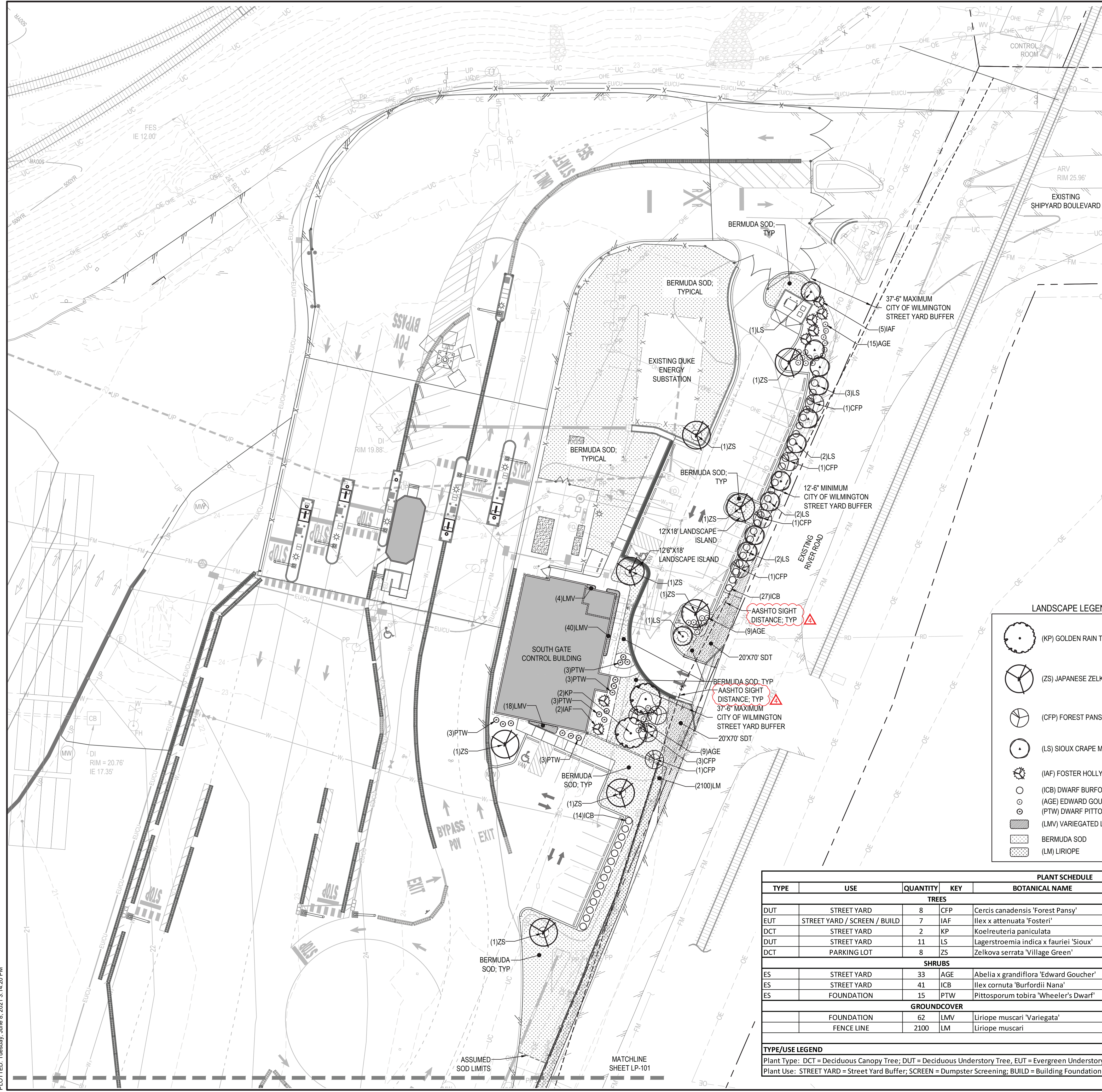
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 PLOTTED: Thursday, June 10, 2021 5:21:04 PM

MATCH LINE  
FOR CONTINUATION  
SEE SHEET CS105

1 PARTIAL SITE PLAN - 1 OF 4  
1" = 30'



1. No plantings over thirty (30) inches in height allowed in vision clearance.

2. Protection from vehicular traffic provided around all landscaping with a minimum height of six (6) inches.

3. Owner is responsible for maintenance to ensure plant material lives and prospers.

4. Planting plans shall be approved by Landscape Designer prior to installation.

5. Landscaping shall be required at the ends of all parking rows.

6. A low buffer shall be required where parking is within fifty (50) feet of the Right-of-Way.

7. Landscaped islands shall be a minimum width of twelve (12) feet (back of curb to back of curb) and a minimum of two hundred and sixteen (216) square feet.

8. A minimum of fifteen (15) trees 2 inches or greater in diameter as measured 6 inches above ground per disturbed acre.

9. For recommended Plant List see "Landscape" T-10.4.

STANDARD DETAIL  
**LANDSCAPE NOTES**

DATE: APRIL, 2008  
 DRAWN BY: JKR  
 CHECKED BY: B.P., P.E.  
 SCALE: NOT TO SCALE

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

SD 15-14

**LANDSCAPE CALCULATIONS**

**STREET YARD LANDSCAPING**  
 REQUIREMENT: 1 CANOPY TREE OR 3 UNDERSTORY TREES (IF OVERHEAD UTILITIES PRESENT) & 6 SHRUBS PER 600 SF OF STREET YARD  
 264 LF - 26' DRIVEWAY = 239 LF X 25' (MULTIPLIER) = 5,975 SF  
 REQUIRED: 5,975 SF / 600 SF X 3 = 10 CANOPY TREES OR 30 UNDERSTORY TREES (IF OVERHEAD UTILITIES PRESENT)  
 5,975 SF / 600 SF X 6 = 60 SHRUBS  
 PROVIDED: 2 CANOPY TREES & 24 UNDERSTORY TREES (WHERE OVERHEAD UTILITIES PRESENT)  
 [2 GOLDEN RAIN TREE, 8 REDBUD, 5 FOSTER HOLLY, 11 GRAPE MYRTLE]  
 60 SHRUBS  
 [33 ABELIA, 27 DWARF BURFORD HOLLY]

**PARKING LOT LANDSCAPING**  
 INTERIOR AREA LANDSCAPING  
 REQUIREMENT: 1 CANOPY TREE PER LANDSCAPE ISLAND & 20% OR GREATER CANOPY COVERAGE  
 POV PARKING  
 LANDSCAPE ISLAND = 5  
 REQUIRED: 5 CANOPY TREES  
 PROVIDED: 5 CANOPY TREES  
 PARKING LOT & DRIVEWAY = 10,330 SF  
 REQUIRED: 10,330 SF X 0.2 = 2,066 SF CANOPY COVERAGE  
 PROVIDED: 5 CANOPY TREES X 707 SF = 3,535 SF CANOPY COVERAGE  
 PERIMETER LANDSCAPING - N/A SEE STREET YARD  
 PARKING AREA SCREENING  
 REQUIREMENT: 36' HT EVERGREEN BUFFER  
 PROVIDED: 36' HT EVERGREEN BUFFER  
 STEVEDORES PARKING  
 LANDSCAPE ISLANDS = 3  
 REQUIRED: 3 CANOPY TREES  
 PROVIDED: 3 CANOPY TREES  
 PARKING LOT = 4,978 SF  
 REQUIRED: 4,978 SF X 0.2 = 996 SF CANOPY COVERAGE  
 PROVIDED: 3 CANOPY TREES X 707 SF = 2,121 SF CANOPY COVERAGE  
 PARKING AREA SCREENING  
 REQUIREMENT: 36' HT EVERGREEN BUFFER  
 PROVIDED: 36' HT EVERGREEN BUFFER

**FOUNDATION LANDSCAPING**  
 REQUIREMENT: AREA OF BUILDING FACE ADJACENT TO PARKING OR DRIVE AISLE X 12% = MINIMUM AREA OF LANDSCAPING  
 BUILDING FACING PARKING OR DRIVE AISLE = 188 LF X 32' HT  
 REQUIRED: 188 LF X 32' HT = 6,016 SF X 0.12 = 722 SF LANDSCAPE AREA  
 PROVIDED: 780 SF LANDSCAPE AREA

**DUMPSTER SCREENING**  
 REQUIREMENT: 6' HT SCREENING ADJACENT TO RW  
 PROVIDED: 6' HT EVERGREEN SCREENING ADJACENT TO RW

**LANDSCAPE LEGEND**

- (KP) GOLDEN RAIN TREE
- (ZS) JAPANESE ZELKOVA
- (CFP) FOREST PANSY REDBUD
- (LS) SIOUX CRAPE MYRTLE
- (IAF) FOSTER HOLLY
- (ICB) DWARF BURFORD HOLLY
- (AGE) EDWARD GOUCHER ABELIA
- (PTW) DWARF PITTOSPORUM
- (LMV) VARIEGATED LIRIOPE
- BERMUDA SOD
- (LM) LIRIOPE

PLANT SCHEDULE						
TYPE	USE	QUANTITY	KEY	BOTANICAL NAME	COMMON NAME	PLANTING SIZE
<b>TREES</b>						
DUT	STREET YARD	8	CFP	Cercis canadensis 'Forest Pansy'	Forest Pansy Redbud	8' ht MIN
EUT	STREET YARD / SCREEN / BUILD	7	IAF	Ilex x attenuata 'Fosteri'	Foster Holly	8' ht MIN
DCT	STREET YARD	2	KP	Koelreuteria paniculata	Golden Rain Tree	2" cal MIN
DUT	STREET YARD	11	LS	Lagerstroemia indica x fauriei 'Sioux'	Sioux Crape Myrtle	8' ht MIN
DCT	PARKING LOT	8	ZS	Zelkova serrata 'Village Green'	Village Green Japanese Zelkova	2" cal MIN
<b>SHRUBS</b>						
ES	STREET YARD	33	AGE	Abelia x grandiflora 'Edward Goucher'	Edward Goucher Abelia	12" ht MIN
ES	STREET YARD	41	ICB	Ilex cornuta 'Burfordii Nana'	Dwarf Burford Holly	36" ht MIN
ES	FOUNDATION	15	PTW	Pittosporum tobira 'Wheeler's Dwarf'	Dwarf Pittosporum	12" ht MIN
<b>GROUNDCOVER</b>						
	FOUNDATION	62	LMV	Liriope muscari 'Variegata'	Variegated Liriope	1 gallon
	FENCE LINE	2100	LM	Liriope muscari	Liriope	2.5" plug
<b>TYPE/USE LEGEND</b>						
Plant Type: DCT = Deciduous Canopy Tree; DUT = Deciduous Understory Tree; EUT = Evergreen Understory Tree; ES = Evergreen Shrub						
Plant Use: STREET YARD = Street Yard Buffer; SCREEN = Dumpster Screening; BUILD = Building Foundation; PARKING LOT = Parking Lot Landscaping						

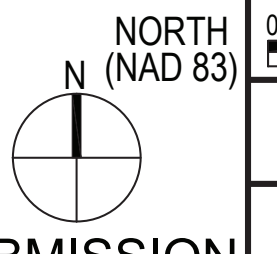
Approved Construction Plan

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

Planning \_\_\_\_\_

Traffic \_\_\_\_\_

Fire \_\_\_\_\_



100% SUBMISSION

THE CURRY ENGINEERING GROUP PLLC  
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 F (919) 282-2843

PROJECT MANAGER  
 R. THOMPSON

DESIGNED BY  
 A. SOUTHWELL

CHECKED BY  
 A. SOUTHWELL

DRAWN BY  
 A. SOUTHWELL

DATE  
 2020-06-09  
 2020-11-03  
 2021-04-18  
 2021-06-08

DESCRIPTION  
 RESPONSE TO COMMENTS  
 RESPONSE TO COMMENTS  
 RESPONSE TO COMMENTS

APP BY  
 RAS  
 RAS  
 RAS

**MOTT MACDONALD**  
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**Curry ENGINEERING**

**NORTH CAROLINA PORTS**

NORTH CAROLINA STATE PORTS AUTHORITY  
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 PORT OF WILMINGTON - 2202 BURNETT BLVD.  
 NCSA CONTRACT NO. C-1289(W)  
 SCO ID NO. 19-20013-01A  
 MARK A. BLAKE, P.E., DIRECTOR OF ENGINEERING and MAINTENANCE

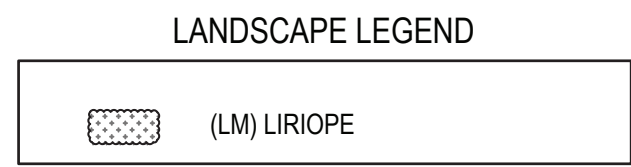
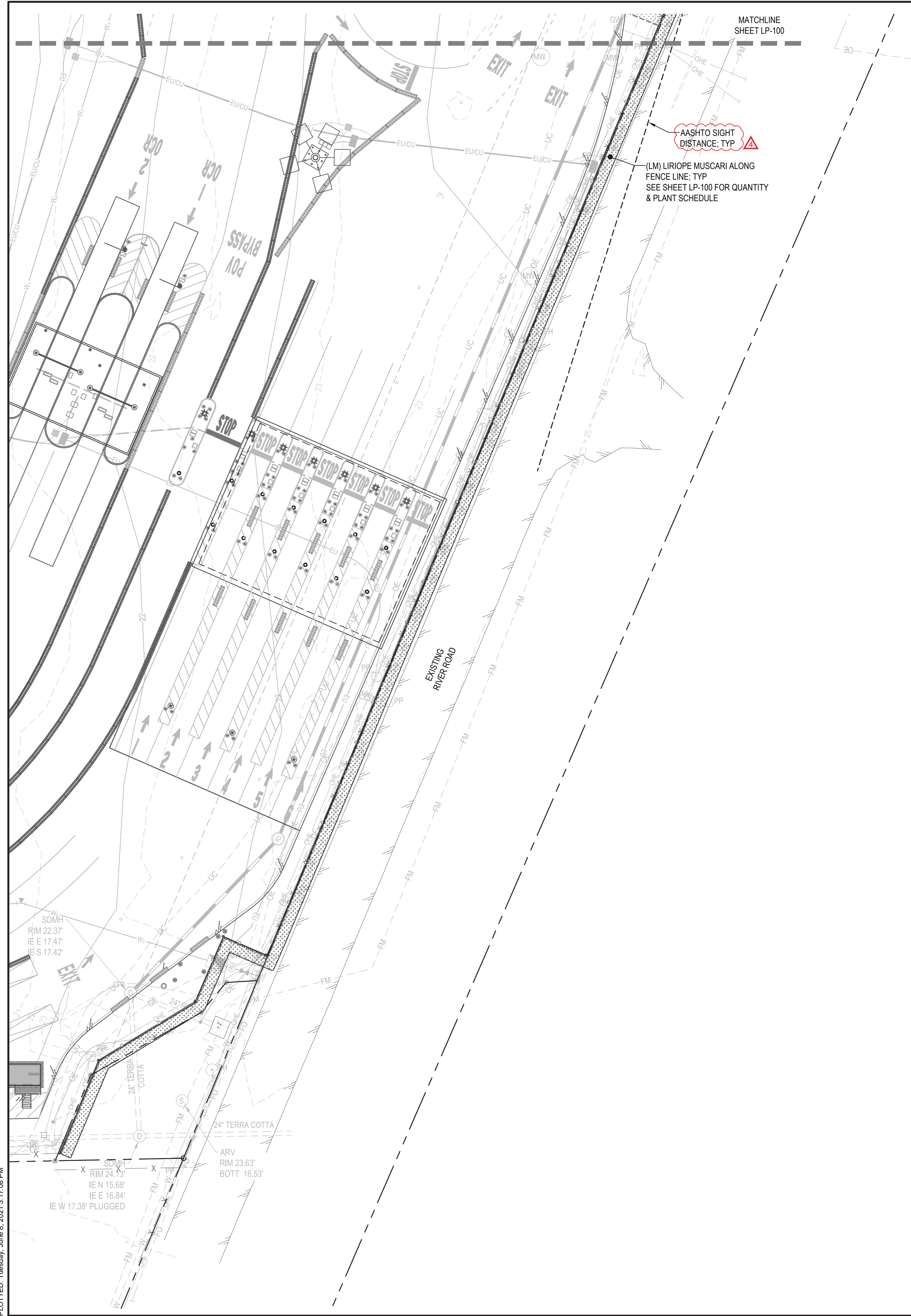
LANDSCAPE PLAN

17 JANUARY 2020

LP-100

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AASHTO SIGHT DISTANCE: TYP

(LM) LIRIOPE MUSCARI ALONG FENCE LINE: TYP  
 SEE SHEET LP-100 FOR QUANTITY & PLANT SCHEDULE

Approved Construction Plan

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

Planning \_\_\_\_\_

Traffic \_\_\_\_\_

Fire \_\_\_\_\_



100% SUBMISSION



NORTH CAROLINA STATE PORTS AUTHORITY  
 UPGRADES TO SOUTH GATE COMPLEX  
 PORT OF WILMINGTON - 2202 BURNETT BLVD.  
 NCSA CONTRACT NO. C-1289(W)  
 SCO ID NO. 19-20013-01A  
 MARK A. BLAKE, P.E., DIRECTOR of ENGINEERING and MAINTENANCE

LP-101

**Curry**  
 ENGINEERING

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DESIGNED BY: A. SOUTHWELL  
 DRAWN BY: A. SOUTHWELL  
 CHECKED BY: A. SOUTHWELL  
 PROJ. MANAGER: R. THOMPSON  
 N.C. LIC. NO. P-0799

**MOTT MACDONALD**

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 Raleigh, NC 27619  
 License No. F-4969  
 www.mottmac.com

REV	DESCRIPTION	DATE	APP BY
1	RESPONSE TO COMMENTS	2020-06-09	RAAS
2	RESPONSE TO COMMENTS	2020-11-03	RAAS
3	RESPONSE TO COMMENTS	2021-04-18	RAAS
4	RESPONSE TO COMMENTS	2021-06-08	RAAS

NCSA PROJECT NO. 10428  
 NCSA CONTRACT C-1289(W)  
 17 JANUARY 2020