

PROJECT NO. 15BPR.119.3

CATAWBA COUNTY

BRIDGE NO. 170091

SHEET 3 OF 5

STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
RALEIGH

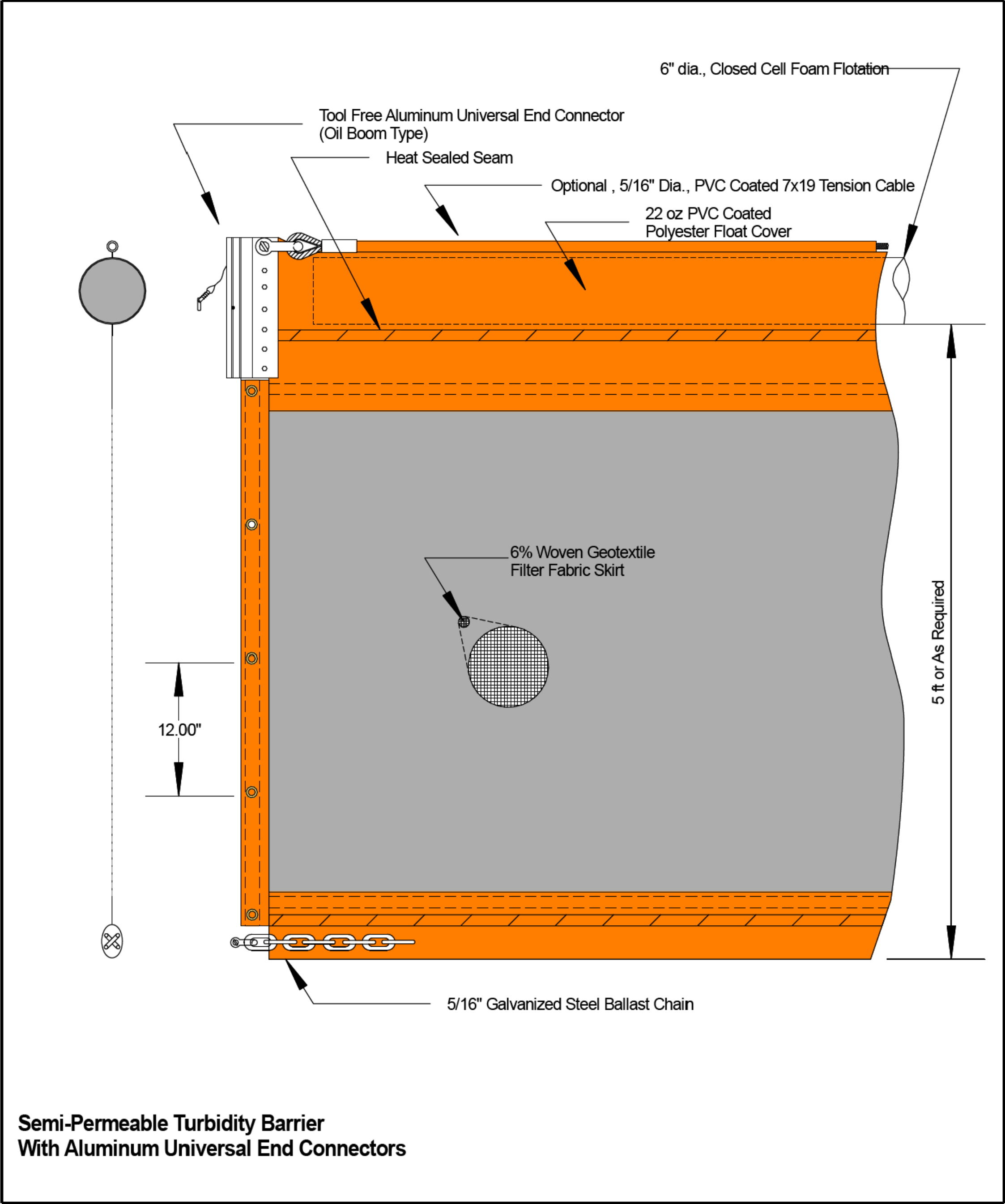
**BSP  
PHASE 2**

REVISIONS						SHEET NO. BSP-03
NO.	BY:	DATE:	NO.	BY:	DATE:	
1			3			TOTAL SHEETS 78
2			4			

DRAWN BY : HRS DATE : 8/24  
CHECKED BY : T. SHERRILL DATE : 1/25  
DESIGN ENGINEER OF RECORD: S. MEGAHED DATE : 1/25



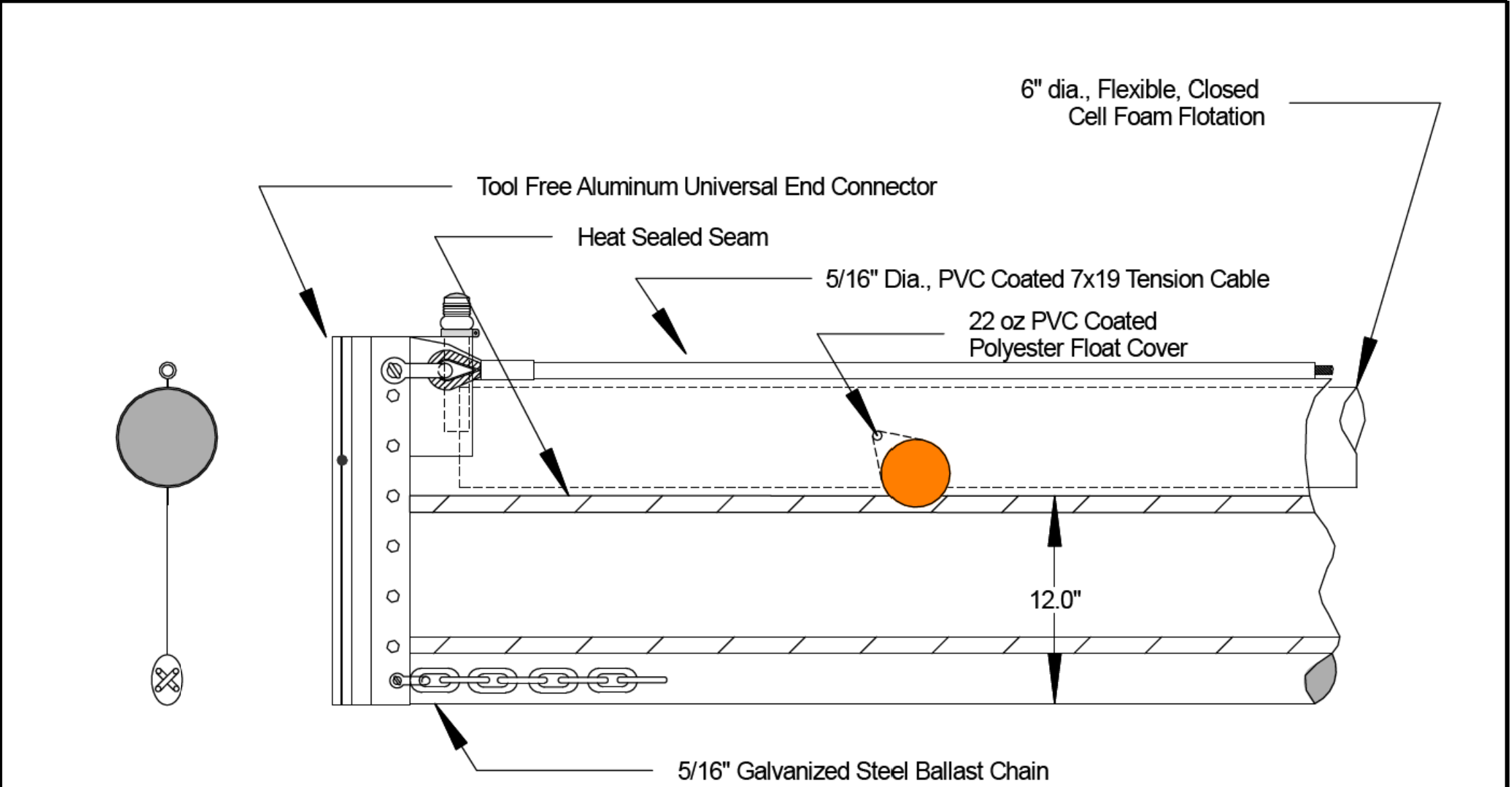
DETAIL 1  
FLOATING TURBIDITY CURTAIN



Semi-Permeable Turbidity Barrier  
With Aluminum Universal End Connectors

- NOTES :
- FLOATING TURBIDITY CURTAIN SHALL BE IWT/CARGO-GUARD SILTDAM TYPE II OR EQUAL.
  - 22 OZ PVC COATED POLYESTER FLOAT COVER (OIL/DEBRIS CONTAINMENT ALONG THE WATERLINE).
  - 6 IN. DIA., CLOSED CELL FOAM FLOTATION.
  - 5/16 IN. DIA., PVC COATED, 7X19 TOP TENSION CABLE (9,800 LBS, MIN. BREAK STRENGTH).
  - 5 FT. DEPTH, 4-6% WOVEN MONOFILAMENT GEOTEXTILE FILTER FABRIC SKIRT.
  - 5/16 IN. DIA., GALVANIZED STEEL BALLAST CHAIN ENCLOSED WITHIN LOWER POCKET.
  - TOOL FREE ALUMINUM UNIVERSAL END CONNECTORS TOP SECTION WITH LACING GROMMET SKIRT CONNECTION
  - 100 FT. STANDARD SECTION LENGTHS.

DETAIL 2  
BOATER SAFETY BARRIER  
DELINEATION BOOM WITH LIGHT POCKETS



SPILLDAM LOG I-C  
OIL CONTAINMENT BOOM

- |                                                                 |                                                                               |
|-----------------------------------------------------------------|-------------------------------------------------------------------------------|
| Boom Length: 100 ft & 50 ft standard, other lengths available   | Temperature Range: - 65 deg. F to + 140 deg. F                                |
| Draft: 12 inches                                                | Ballast: 5/16" galvanized steel chain                                         |
| Freeboard: 7 inches                                             | Tension Line: 5/16" galvanized steel aircraft cable                           |
| Total Height: 19 inches                                         | End Connection: Standard aluminum universal slide connectors. ASTM Connectors |
| Flotation Element: Flexible, rolled, closed cell foam           | Color: International Orange                                                   |
| Flotation Size: 6 inch diameter                                 | Tensile Strength: 17,500 lbs - Combined                                       |
| Overall Weight: 2.0 lbs. per linear foot                        | Recommended Towing Speed: 10 knots maximum<br>2 knots recommended             |
| Stowage Volume: 150 cu. ft. per 1000 ft                         | Wind: 10 - 15 knots                                                           |
| Curtain Material: Vinyl coated polyester, 22 oz per sq/yd       | Wave Height: Unit remains stable in moderate to high seas                     |
| Fabric Strength: 500 lbs minimum, per inch                      |                                                                               |
| Abrasion Resistance: Good, designed for continued rough service |                                                                               |

- NOTES :
- BOATER SAFETY BARRIER SHALL BE IWT/CARGO-GUARD SPILLDAM LOG I-C OR EQUAL.
  - LIGHT POCKETS DESIGNED FOR JIM-BOUY NO. 9000-X SERIES WITH WHITE, FLASHING, PHOTO SENSITIVE MARKER LIGHTS OR EQUAL.
  - INSTALL AND ANCHOR BOATER SAFERTY BARRIER AND TURBIDITY CURTAIN PER MANUFACTURER'S RECOMMENDATIONS
  - CONTRACTORS SHALL FURNISH THE MINIMUM NUMBER OF SECTIONS OF BOATER SAFETY BARRIER AND TURBIDITY CURTAIN REQUIRED TO DO THE WORK SHOWN ON THE DRAWINGS AND ANY ADDITIONAL SECTIONS IF CONDITIONS DEEM NECESSARY.
  - ERMERGENCY REPAIRS TO THE BOATER SAFETY BARRIER SYSTEM WILL BE MADE AS NEEDED, 24 HOURS PER DAY / ANY DAY OF THE WEEK.
  - ALL ROUTINE MAINTENANCE ACTIVITY FOR THE BOATER SAFETY BARRIER SYSTEM IS RESTRICTED TO THE HOURS BETWEEN 6:00 AM AND 7:00 PM.

NOTES

THE CITED PRODUCT EXAMPLES ON THIS PLAN SHEET ARE USED ONLY TO DENOTE THE QUALITY STANDARD OF PRODUCT DESIRED AND DOES NOT RESTRICT BIDDERS TO A SPECIFIC BRAND, MAKE, MANUFACTURER OR SPECIFIC NAME; IT IS USED ONLY TO SET FORTH AND CONVEY TO BIDDERS THE GENERAL STYLE, TYPE, CHARACTER, AND QUALITY OF PRODUCT DESIRED. SHOULD BIDDER DESIRE TO SUBSIST AN ITEM OF EQUAL OR EQUIVALENT DESIGN TO THE BRAND INDICATED, THE BIDDER MUST SUBMIT TO THE DEPARTMENT, NO LATER THAN TWO WEEKS PRIOR TO THE BID OPENING, PERTINENT AND SUFFICIENT INFORMATION CONFIRMING THE SUBSTITUTE IS AN EQUIVALENT ALTERNATE. THE DEPARTMENT WILL REVIEW AND APPROVE OR DISAPPROVE THE SUBMITTED SUBSTITUTE WITHIN FIVE WORKING DAYS OF RECEIVING THE SUBMITTED SUBSTITUTE.

AFTER AWARD OF BID, AS PER THE BOATER SAFETY SPECIAL PROVISION, CONTRACTOR SHALL SUBMIT A BOATER SAFETY PLAN. SUCH PLAN SHALL INCLUDE SPECIFICS REGARDING PRODUCTS TO BE USED. THE SUBMITTED BOATER SAFETY PLAN SHALL BE SUBMITTED TO NCDOT AND DUKE ENERGY FOR REVIEW AND APPROVAL OR DISAPPROVAL.

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SHEET 4 OF 5

STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
RALEIGH

FLOATING TURBIDITY  
CURTAIN &  
BOATER SAFETY BARRIER

REVISIONS						SHEET NO. BSP-04
NO.	BY:	DATE:	NO.	BY:	DATE:	
1			3			TOTAL SHEETS 78
2			4			