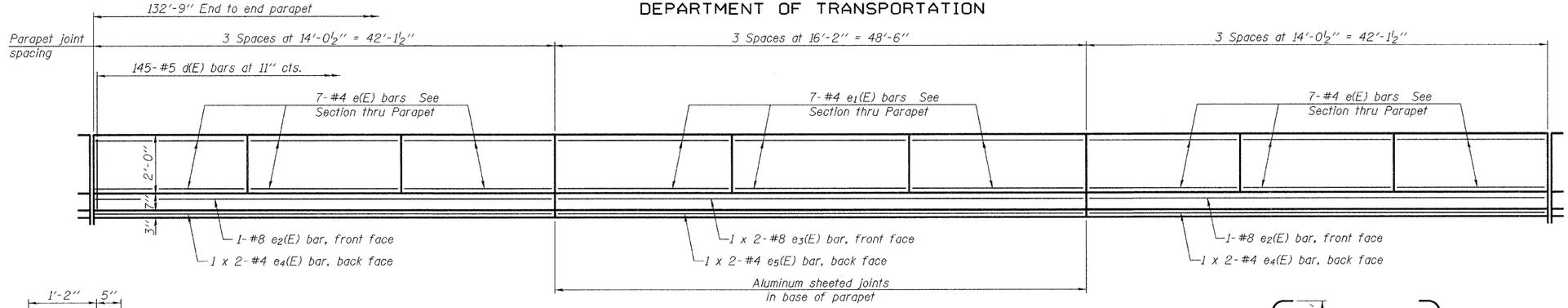
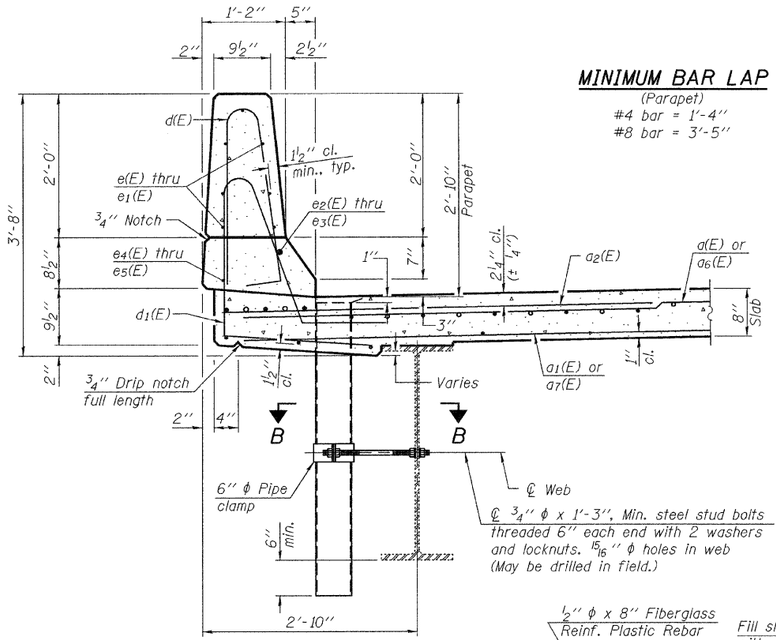
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



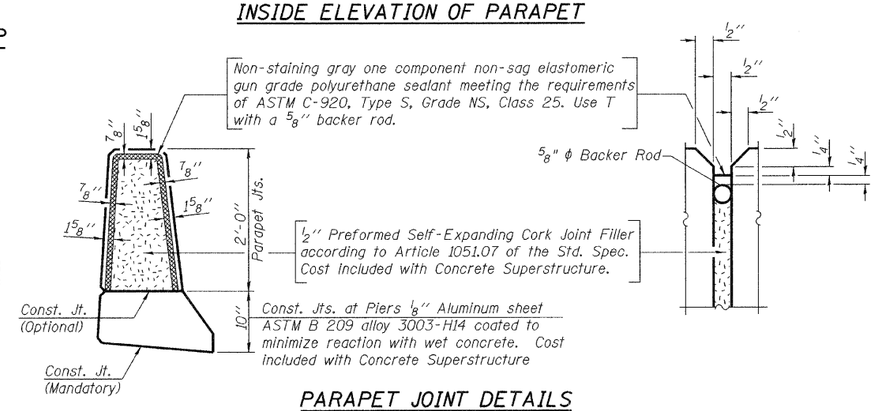

## MINIMUM BAR LAP

(Parapet)
#4 bar = 1'-4"
#8 bar = 3'-5"

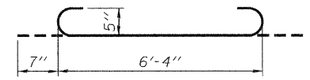
## INSIDE ELEVATION OF PARAPET



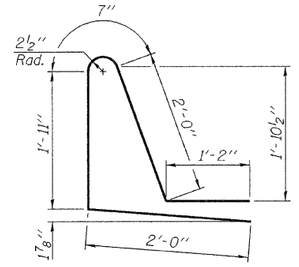

## SECTION THRU PARAPET




## PARAPET JOINT DETAILS




## a3(E) BAR

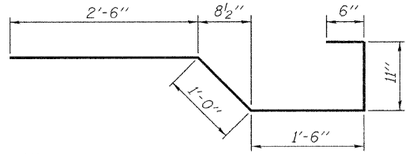



## BAR d1(E)

## SUPERSTRUCTURE BILL OF MATERIAL

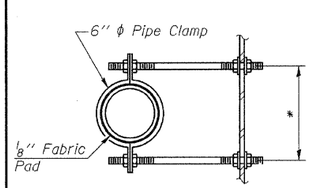
| Bar | No. | Size | Length | Shape |
|---|---|---|---|---|
| a(E) | 213 | #5 | 24'-2" | —— |
| a1(E) | 160 | #5 | 23'-5" | —— |
| a2(E) | 214 | #6 | 6'-0" | —— |
| a3(E) | 30 | #5 | 7'-6" | ⊂ ⊃ |
| a4(E) | 2 | #5 | 21'-7" | —— |
| a5(E) | 8 | #5 | 24'-3" | —— |
| a6(E) | 213 | #5 | 20'-2" | —— |
| a7(E) | 160 | #5 | 19'-5" | —— |
| a9(E) | 2 | #5 | 17'-7" | —— |
| a10(E) | 8 | #5 | 20'-3" | —— |
| | | | | |
| b(E) | 240 | #5 | 28'-3" | —— |
| b1(E) | 90 | #6 | 24'-2" | —— |
| b2(E) | 258 | #5 | 23'-11" | —— |
| | | | | |
| d(E) | 290 | #5 | 5'-7" | ⌊ |
| d1(E) | 290 | #5 | 7'-8" | ⌊ |
| | | | | |
| e(E) | 84 | #4 | 13'-9" | —— |
| e1(E) | 42 | #4 | 15'-11" | —— |
| e2(E) | 4 | #8 | 41'-10" | —— |
| e3(E) | 4 | #8 | 25'-10" | —— |
| e4(E) | 8 | #4 | 21'-8" | —— |
| e5(E) | 4 | #4 | 24'-10" | —— |
| | | | | |
| x(E) | 74 | #5 | 6'-5" | ⌐ ⌋ |
| | | | | |
| Reinforcement Bars, Epoxy Coated | | | Pound | 43,010 |
| Concrete Superstructure | | | Cu. Yds. | 193.1 |

Bars indicated thus 1 x 2-#8 etc. indicates 1 line of bars with 2 lengths per line.



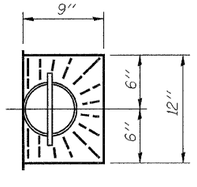

## BAR x(E)

Notes:
Drains shall be located clear of all diaphragms.
The exterior surfaces of the floor drains shall be painted with the finish coat as specified in the special provisions for Cleaning and Painting New Metal Structures. The exterior surfaces of the drains shall be cleaned according to the Society of Protective Coating's Spec. SSPC-SP1 prior to painting.
Fiberglass pipe shall conform to ASTM D 2996, with short-time rupture strength hoop tensile stress of 30,000 p.s.i. minimum. Galvanize clamping device according to AASHTO M232.

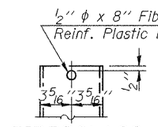



## SECTION B-B

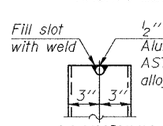
* Dimension as required by Pipe Clamp



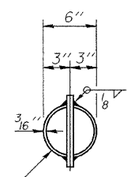

## TOP PLAN




## FIBERGLASS PIPE




## ALUMINUM TUBE

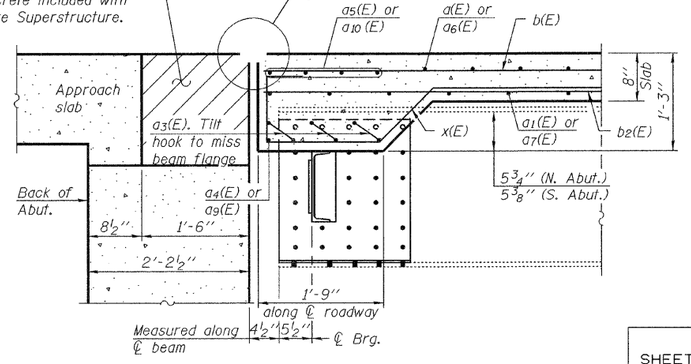



6" O.D. Aluminum Tube alloy 6061-T6 or 6" ϕ Fiberglass Pipe

## TOP PLAN

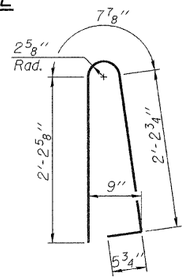
(Showing Aluminum Tube)

Hatched area to be poured after superstructure forms have been removed. Quantity of concrete included with Concrete Superstructure.




## SECTION A-A

Dimensions are at right angles to abutment except as noted.




## BAR d(E)

## SUPERSTRUCTURE DETAILS
## STRUCTURE NO. 037-0017 (S.B.)

| DESIGNED | Nicholas R. Barnett |
|---|---|
| CHECKED | Michael D. Rolape |
| DRAWN | Michael B. Mossman |
| CHECKED | N.R.B./M.D.R./G.R.A. |

September 29, 2009
EXAMINED Thomas J. Domagalski
ENGINEER OF BRIDGE DESIGN
PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

| SHEET NO. 12 | F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|---|
| 27 SHEETS | 74 | 37-4HB-1 | HENRY | 148 | 73 |
| | | | CONTRACT NO. 64264 | | |
| | | ILLINOIS | FED. AID PROJECT | | |