FACE OF GIRDER WEB

TIGHTENING ALLOW FOR G.F. 2 SPA'S

HOLD DOWN BOLT

CL. BEND LINE

SEAL WELD

GRATE DETAIL

PART PLAN

SECTION AT HOLD DOWN BOLT

NOTES

ALL OTHER MATERIAL INCLUDING GRATE EXCLUDING PIPE & GRATE HOLD DOWN BOLTS SHALL BE ASTM A36 STEEL.

WELDS SHALL BE MADE WITH LOW HYDROGEN ELECTRODES.

ALTERNATE BRACKETS ARE NOT ALLOWED.

ALL STEEL SHALL BE GALVANIZED. WELDS SHALL BE MADE WITH LOW HYDROGEN ELECTRODES.

ALL MATERIALS FOR DOWNSPOUTS SHALL BE INCLUDED IN THE BID ITEM "DOWNSPOUT 6-INCH".

ALL MATERIALS FOR CONCRETE, CONCRETE CONNECTOR BARS, AND BRACKETS TO BE INCLUDED IN THE BID ITEM "CONCRETE X-BRACE".

SEAL HOLD DOWN BOLT PRIOR TO GALVANIZING A NO. 6 BLAST CLEANING IS PERMITTED.

FLANGED 6-INCH DOWNSPOUTS SHALL BE REINFORCED TO REMOVE REINFORCEMENT FROM HOLES AND MARY PLACE, SLOTTED HOLE.

DESIGNER NOTE

IN THE BID ITEM "DOWNSPOUT 6-INCH" ALL MATERIAL FOR DOWNSPOUTS, DOWNSPOUT connections, and BRACKETS TO BE INCLUDED.

ALL MATERIAL FOR FLOOR DRAINS TO BE INCLUDED IN THE BID ITEM "FLOOR DRAINS TYPE H".

ALL STEEL SHALL BE GALVANIZED. WELDS SHALL BE MADE WITH LOW HYDROGEN ELECTRODES.

ALTERNATE BRACKETS ARE NOT ALLOWED.

MATERIAL FOR BRACKETS SHALL CONFORM TO ASTM A36.

GRATE HOLD DOWN BOLTS, SHALL BE ASTM A36 STEEL.

ALL DRAIN MATERIAL INCLUDING GRATE, EXCLUDING PIPE & CONCRETE CONNECTOR BARS SHALL NOT BE USED OVER RAILROADS BECAUSE IT VIOLATES CLEARANCE REQUIREMENTS.

CONTACT DETAIL NOT TO BE USED OVER RAILROADS BECAUSE IT VIOLATES CLEARANCE REQUIREMENTS.

MATERIAL FOR DOWNSPOUTS SHALL CONFORM TO ASTM A53.

THERMOSETTING RESIN PIPE (RTRP) OR GALVANIZED STEEL 6" DIA. DOWNSPOUTS SHALL BE REINFORCED PRIOR TO GALVANIZING A NO. 6 BLAST CLEANING IS REQUIRED.

SEAL WELD INSIDE OF DRAIN.

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Plan:
- Location of holes to locate holes to avoid draped strands.
- PARAPET CLEAR DRAIN STIRRUPS TO BEND GIRDER.
- SLOPE = 8% TOP OF DECK.
- SEE SUPERSTRUCTURE DETAILS SECTION A-A.

Grate Casting Details:
- Head Bolt - (4) per grate 3" Dia. Stainless Steel Hex.
- Holes drilled & tapped for 1/2" dia. bolts, filler in.

Bracket Details:
- 8" dia. pipe (vertical) - hubless coupling.
- Use 2 brackets for 36w" & 45w" girders. Use 1 bracket for 36w".
- Bracket detail for shipment (1'-0" maximum).
- EXTERIOR GIRDER BOTTOM FLANGE OF 6" MINIMUM PAST EXTEND DOWNSPOUT.
- LOCATION OF HOLES FOR BRACKET ANCHORAGE ON THE PRESTRESSED GIRDER SHEET, SHOW POUR TO DECK CONCRETE - INSTALL PRIOR TO DECK CONCRETE.
- Location of holes for bracket anchorage in girder web face of girder.

Notes:
- All material for floor drains to be included in the bid item "FLOOR DRAIN TYPE WF".
- All material for concrete and reinforcing and brackets to be included in the bid item "BRACKETS".
- Materials for brackets shall conform to ASTM A48, Class 30.
- Alternate brackets are not allowed.
- ASTM A36.

Designer Note:
- On the prestressed girder sheet, show location of holes for bracket anchorage from top/bottom and end of girder.