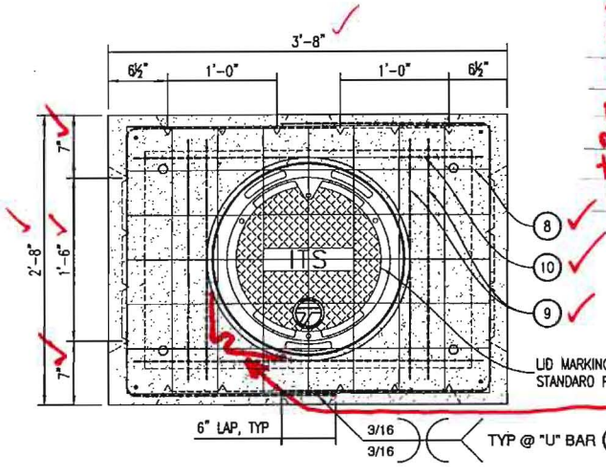
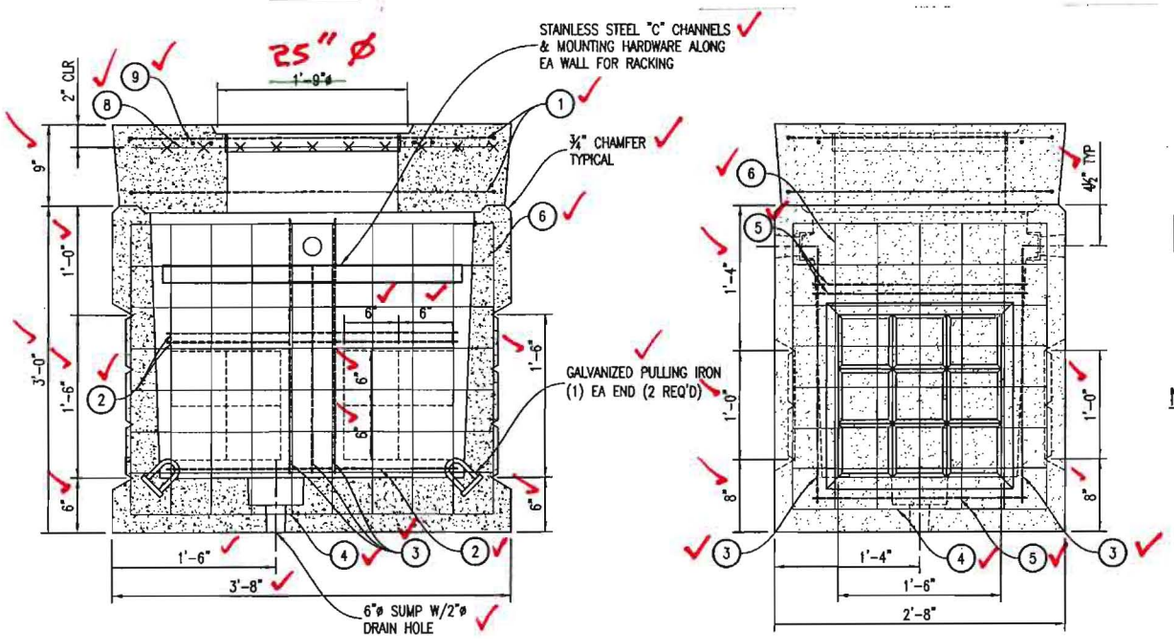
see WSDOT Ammendment to Standard Specifications, Dec. 4, 2006 for design requirements & test proceedures. Acceptance of this pull box is based on materials requirements & receipt of independent testing lab results stating pull box meets or exceeds testing criteria.




#4 through cored hole in frame 3711ZPT. 12 inch lap & wire tie to #3 bar. Typical 4 places.

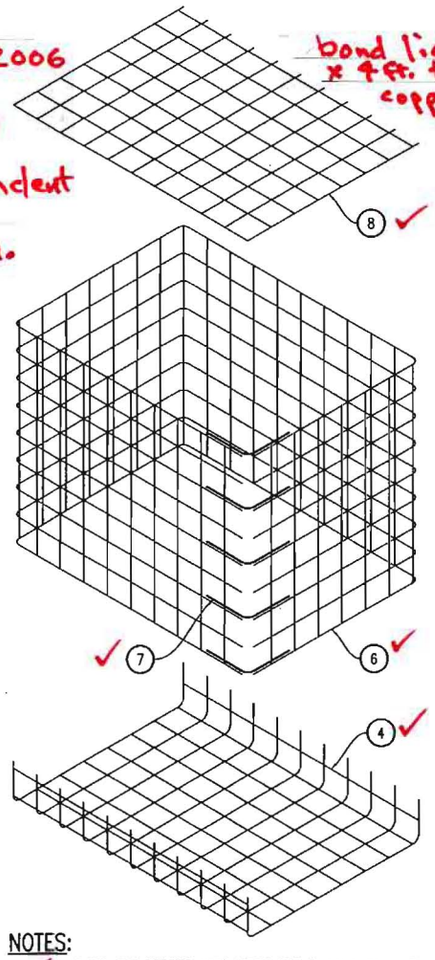
TOP VIEW



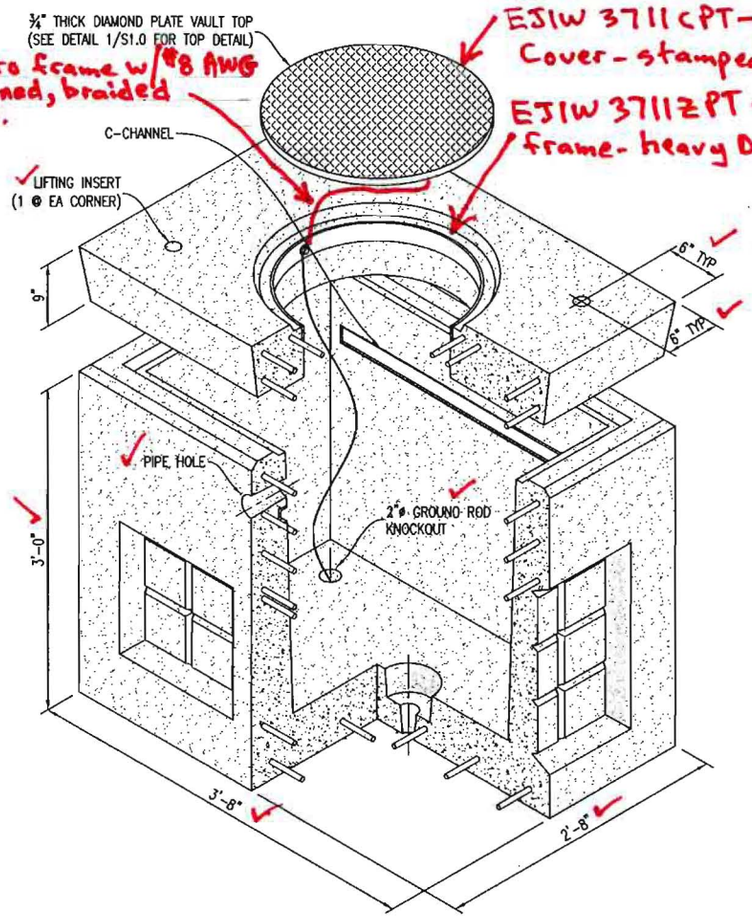

SECTION VIEW




SIDE VIEW




bond lid to frame w/ #8 AWG x 4 ft. tinned, braided copper.




EJIW 3711CPT-D1 Cover-stamped ITS

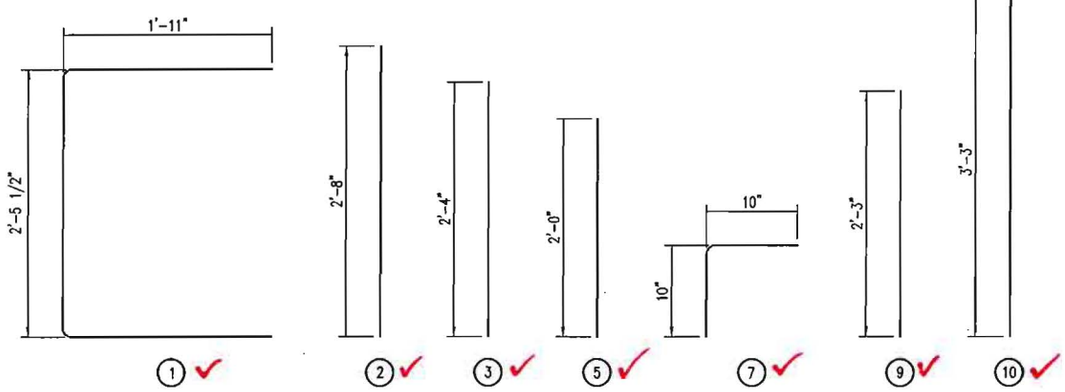
EJIW 3711ZPT-SLD frame-heavy Duty

3/S1 ISOMETRIC ASSEMBLY
1" = 1'-0"

NOTES:
1. SHOP CUT WELDED WIRE MESH FOR BLOCKOUTS. PROVIDE #3 TRIMMING BARS (9) & (10) AROUND BLOCKOUTS AS SHOWN.

2/S1 STEEL MESH ISOMETRIC
3/4" = 1'-0"

1/S1 PULL BOX DETAIL
1" = 1'-0"




APPROVED AS NOTED
Washington State
Department of Transportation
HQ Traffic Operations Office
DATE TAT August 7, 2007

BILL OF MATERIALS (STEEL RE-BAR & WELDED WIRE MESH)

| PART | DECRIPTION | QTY | SIZE | WT. LBS |
|---|---|---|---|---|
| (1) | #3 ASTM A706 GRADE 60 | 4 | SEE DRAWING | – |
| (2) | #3 ASTM A706 GRADE 60 | 6 | STRAIGHT 2'-8" | – |
| (3) | #3 ASTM A706 GRADE 60 | 10 | STRAIGHT 2'-4" | – |
| * (4) | 4x4 – W4.0xW4.0 | 1 | SEE DETAIL 2/S1.0 | – |
| (5) | #3 ASTM A706 GRADE 60 | 6 | STRAIGHT 2'-0" | – |
| (6) | 4x4 – W4.0xW4.0 | 1 | SEE DETAIL 2/S1.0 | – |
| (7) | #3 ASTM A706 GRADE 60 | 5 | SEE DRAWING | – |
| (8) | 4x4 – W4.0xW4.0 | 1 | SEE DETAIL 2/S1.0 | – |
| (9) | #3 ASTM A706 GRADE 60 | 4 | STRAIGHT 2'-3" | – |
| (10) | #3 ASTM A706 GRADE 60 | 2 | STRAIGHT 3'-3" | – |

* 1'-0" OVERLAP FOR PART (4)

DESIGN PARAMETERS:
- AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES
- ACI-318-02 BUILDING CODE
- ASTM C857 MINIMUM STRUCTURAL DESIGN LOADING FOR UNDERGROUND PRECAST CONCRETE UTILITY STRUCTURES

LOADS:
150 pcf CONCRETE DENSITY
120 pcf SOIL DENSITY
AASHTO H-35-S28 WHEEL LOAD W/30% IMPACT
AASHTO LIVE LOAD SURCHARGE (2' SOIL)
EFFECTIVE SOIL PRESSURE = 45 pcf
NO WATERTABLE

MATERIALS:
CONCRETE – 28 DAY COMPRESSION STRENGTH $f'_c$ = 6000 psi
REBAR – ASTM A706 GRADE 60 fy = 60 ksi (WELDABLE)
ASTM A82/A185 fy = 65 ksi (WELDED WIRE MESH)
THE ROLLS OF WELDED WIRE MESH SHALL BE STRAIGHTENED & CUT TO SIZE BEFORE PLACEMENT.
¾" DIAMOND PLATE COVER – ASTM A36 Fy = 36 ksi

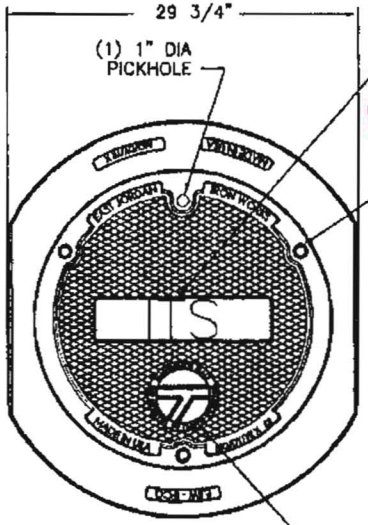
SOIL COVER:
NO SOIL COVER – TOP OF COVER @ GRADE

J. BYRON RUPERT STATE OF WASHINGTON 11103 REGISTERED PROFESSIONAL ENGINEER 2.20.07
EXPIRES 6/23/2008

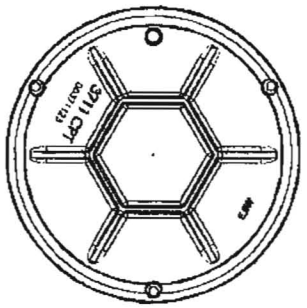
TYPE 233 PULL BOX (H35)

| | | | |
|---|---|---|---|
| SCALE: | SEE DETAILS | DWG BY: | KWT |
| SHEET: | S1.0 | CHK BY: | TCL/JBR |
| JOB NO: | 06106 | DATE: | 05.15.07 |

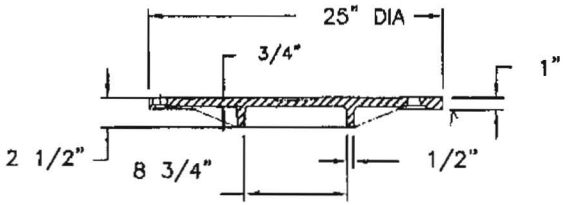
FOGTITE INCORPORATED




PLAN VIEW

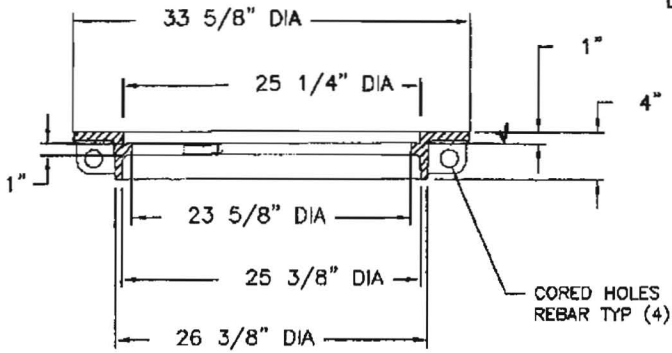


COVER BOTTOM

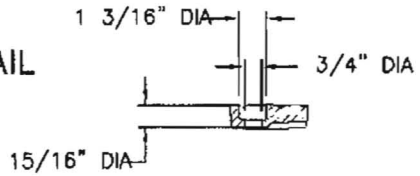



TYP
COVER SECTION

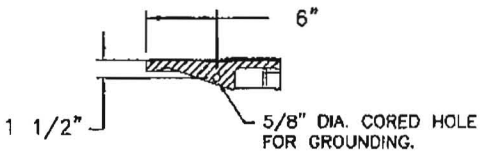
LOGO DETAIL




FRAME SECTION




BOLT HOLE DETAIL




GROUND STRAP HOLE

APPROVED AS NOTED
Washington State
Department of Transportation
HQ Traffic Operations Office
DATE August 21, 2008 TAT

EJIW EAST JORDAN IRON WORKS EST.1883
800-626-4653
www.ejiw.com
MADE IN USA

PRODUCT NUMBER
00371101

CATALOG NUMBER
3711CPT DI
3711ZPT

MANHOLE ASSEMBLY

LOAD RATING
HEAVY DUTY

COATING
UNDIPPED

ESTIMATED WEIGHT
FRAME: 133 LBS 60kg
COVER: 99 LBS 45kg
UNIT: 232 LBS 105kg

MATERIAL SPECIFICATION
FRAME – CAST IRON ASTM A48 CL35B
COVER – DUCTILE IRON ASTM A536

OPEN AREA
N/A

√ DESIGNATES MACHINED SURFACE

| DRAWN | DATE |
|---|---|
| DEW | 05/13/08 |
| LAST REVISED | DATE |
| JJD | 05/22/08 |

REFERENCE INFORMATION
00371124
00371113

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