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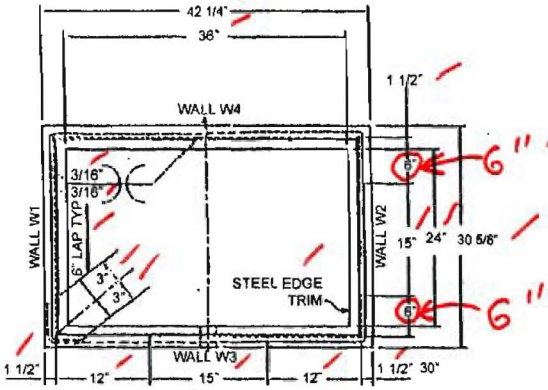
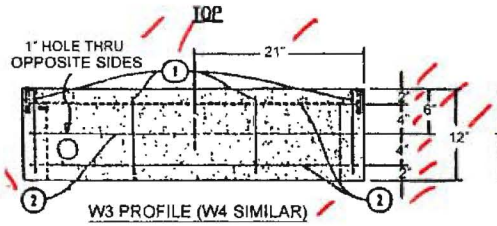
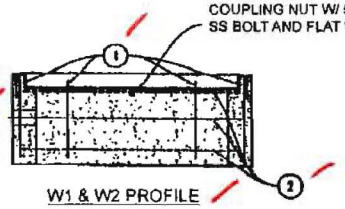
Washington State
Department of Transportation
HQ Traffic Operations Office
DATE March 6, 2009 TAT

acceptance of this junction box is based on materials requirements and receipt of independent testing laboratory results stating box meets or exceeds testing criteria.



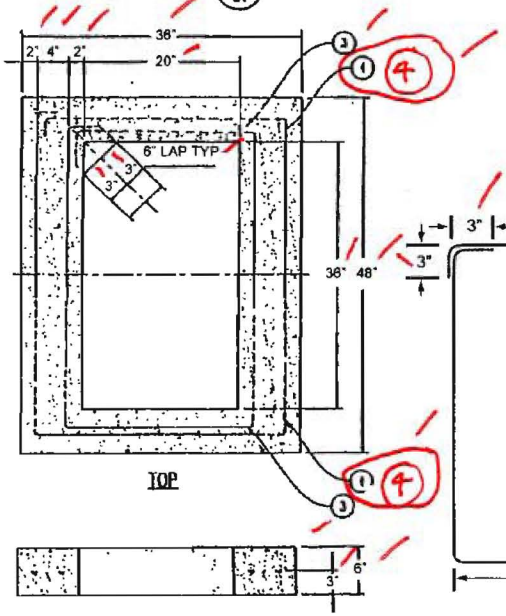


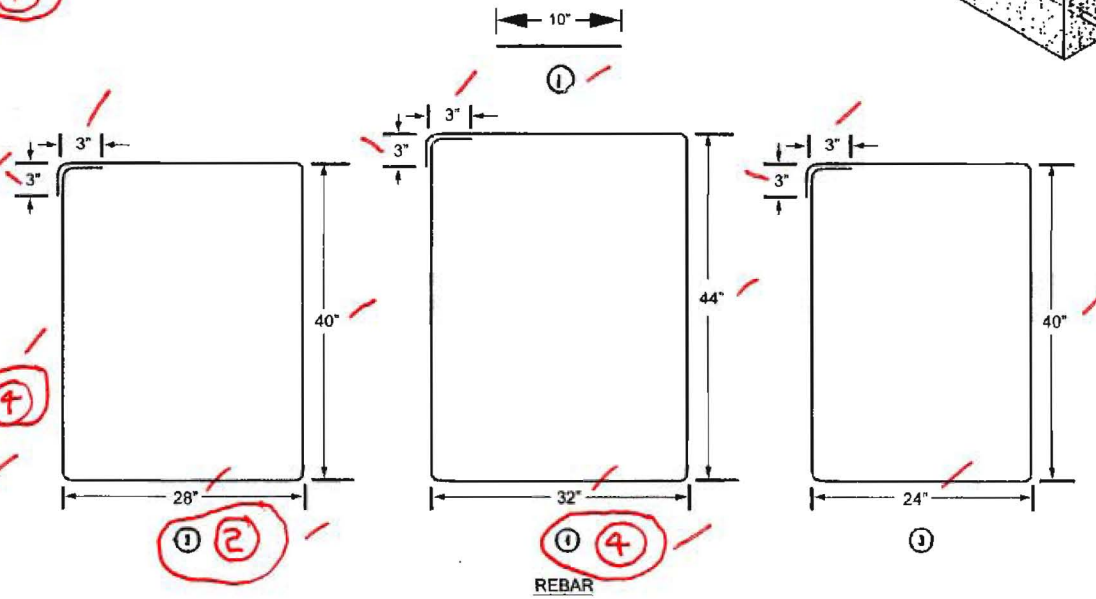
W3 PROFILE (W4 SIMILAR)



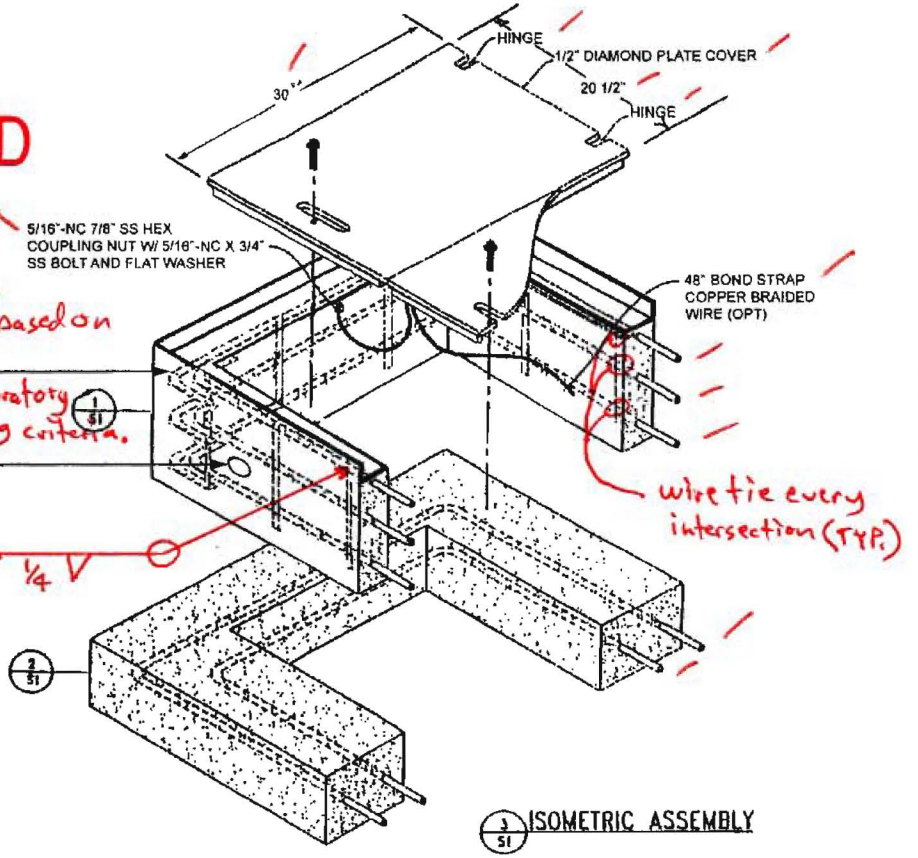
W1 & W2 PROFILE

1/51 UPPER BOX CASING





2/51 LOWER BOX CASING



3/51 ISOMETRIC ASSEMBLY

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-20-S16 WHEEL LOAD W/30% IMPACT
AASHTO LIVE LOAD SURCHARGE (2' SOIL)
EFFECTIVE SOIL PRESSURE = 48 pcf
NO WATERTABLE

MATERIALS:
CONCRETE - 28 DAY COMPRESSION STRENGTH f'_c = 6000 psi
REBAR - ASTM A706 GRADE 60 (WELDABLE)
¾" DIAMOND PLATE COVER - ASTM A36 Fy = 36 ksi

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

Part	Description	Qty
1	#3 ATSM A706 Grade 60	12
2	#3 ATSM A706 Grade 60	3
3	#4 ATSM A706 Grade 60	1
4	#4 ATSM A706 Grade 60	1

J-40.30-00 **J-11 Type 8**

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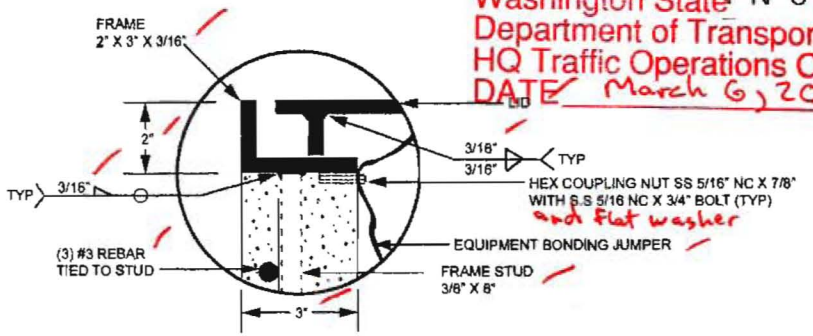
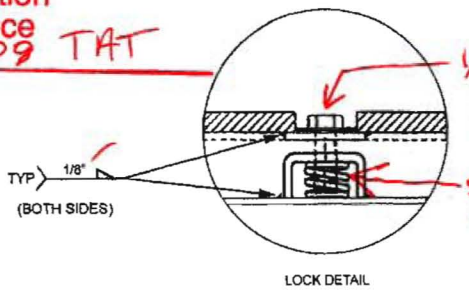
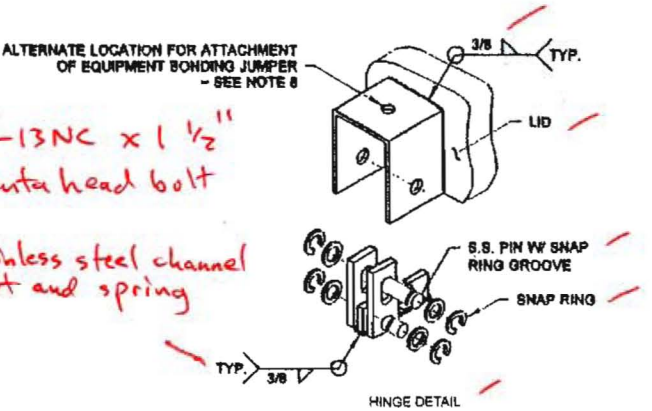


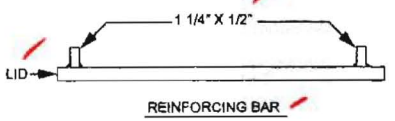
DETAIL "A"



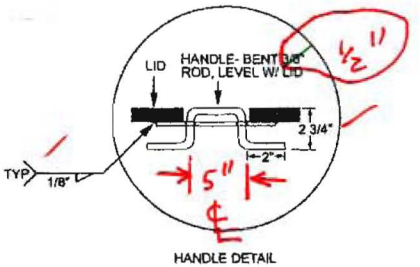
LOCK DETAIL



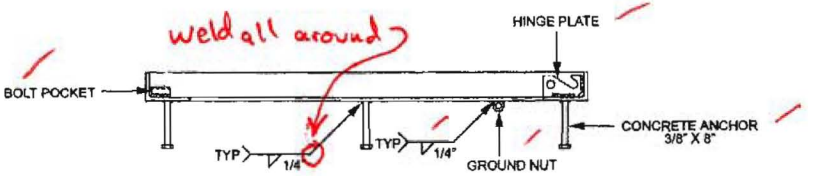
HINGE DETAIL

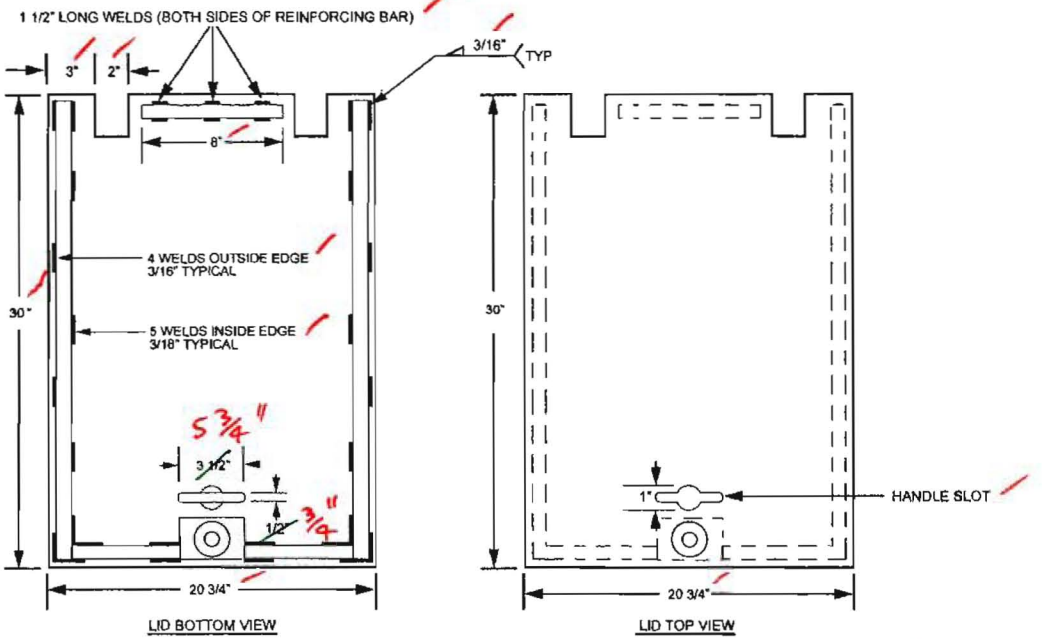


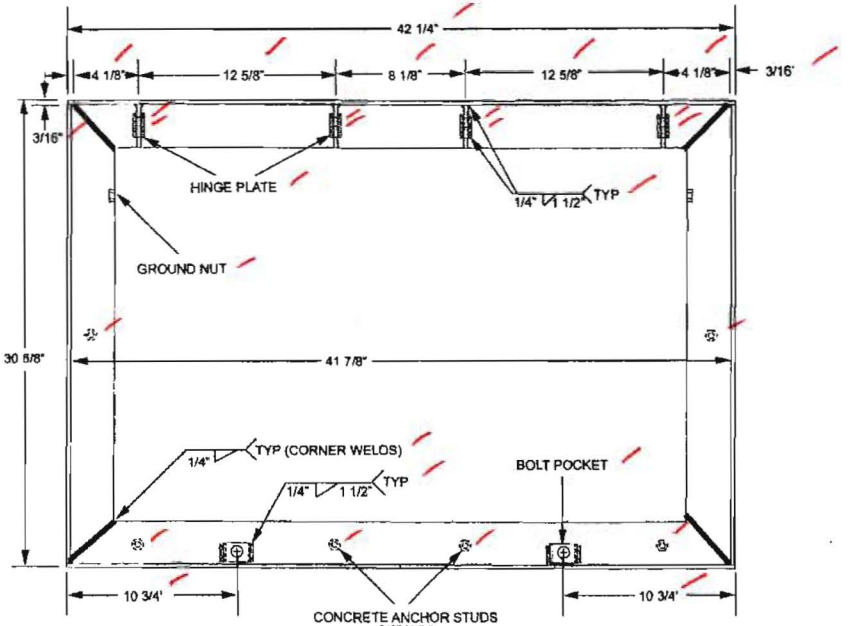
REINFORCING BAR



HANDLE DETAIL







J-40,30-00 **J-11 Type 8**