NOTES:
1.) PLACED EACH CORNER
2.) 5/8" X 3/4" SS GROUND STUD WITH SS NUTS AND SS WASHERS SHALL BE ATTACHED TO BRASS GROUNDING LUG IN VAULT AND BONDING INSERT IN LID.
3.) BRASS GROUNDING LUG AND BONDING INSERT TO BE ATTACHED VIA #8MIN. X 4' (FT.) TINNED BRAIDED COPPER BONDING JUMPER
4.) ALL REBAR GRADE 60
5.) fc 4000 PSI MINIMUM
HEAVY DUTY 460-02 VAULT LID

SECTION A.

NOTE:
1.) RUN THROUGH RING LOOPS IN CASTING
2.) PLACED EACH CORNER
3.) TIED TO HATCH STUDS HINGE SIDE
4.) TIED TO HATCH STUDS ALL FOUR CORNERS
5.) ALL REBAR GRADE 60
6.) f'c 4000 PSI MINIMUM

PLAN VIEW

STANDARD DUTY OR RETROFIT 460-02 VAULT LID

SECTION A.

NOTE:
1.) RUN THROUGH RING LOOPS IN CASTING
2.) PLACED EACH CORNER
3.) TIED TO HATCH STUDS HINGE SIDE
4.) TIED TO HATCH STUDS ALL FOUR CORNERS
5.) ALL REBAR GRADE 60
6.) f'c 4000 PSI MINIMUM

PLAN VIEW
Approved for Heavy-Duty Cable Vaults Only.

PLAN VIEW

CUSTOM LOGO
(3/8") LETTERING RECESSED FLUSH

DATE TAG

COVER BOTTOM

COVER SECTION

FRAME SECTION

APPROVED AS NOTED
Washington State Department of Transportation
HQ Traffic Operations Office
BY: _ DATE: 10/13/2005

APPROVED AS NOTED
SUPERSEDED
Washington State Department of Transportation
HQ Traffic Operations Office
DATE: DEW 6/23/09 TBT

CORED HOLES FOR REBAR TYP (4) PLACES

USE THIS SHEET FOR FRAME SECTION DETAIL, BOLT HOLE DETAIL & PICKBAR DETAIL.
USE SHEET TITLED "COVER", PRODUCT # 00268825, REVISED DATE 5/19/09 FOR COVER DETAIL NOT SHOWN ON THIS SHEET.

MATERIAL SPECIFICATION
COVER - GRAY IRON
ASTM A48 CL35B
FRAME - GRAY IRON
ASTM A48 CL35B

USE THIS SHEET FOR FRAME SECTION DETAIL, BOLT HOLE DETAIL & PICKBAR DETAIL.
USE SHEET TITLED "COVER", PRODUCT # 00268825, REVISED DATE 5/19/09 FOR COVER DETAIL NOT SHOWN ON THIS SHEET.

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2" ENGRAVED LETTERING - Flat area 5" x 12"

4 + BOLTHOLES ON 35 1/2" DIA B.C.

3/4" DIA GROUND STRAP HOLE

CUSTOM LOGO

SECTION A-A

SECTION B-B

APPROVED AS NOTED
Washington State Department of Transportation
HQ Traffic Operations Office

APPROVED AS NOTED
SUPERSEDED
Washington State Department of Transportation
HQ Traffic Operations Office

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DIAMOND PLATE LIFT HANDLES

TYP.

C1f ISP-613

APP

Vashin...

Do~Jrt ices

C'j '?..) 20,-a

TISSA.15

CAT1 PIN18-JA -- -,.

1111•, X 1 • STAINLESS STEEL SPRING PIN

CAT1 10231-WS-ITS

1.0. PTATE ON (1} DOOR AND A 91..ANK ID ON THE OTHER DOOR

CAT1 10231-WS-BLANK-DP

.. CAT1

115A35

1/8-18 X 2 LARGE HOO PENTA BOLT, STAINLESS STEEL

CAT1 PIN18-3A

1/8" X 1 STAINLESS STEEL SPRING PIN

CATE IN-110

LATCH FOR HD-003 STYLE LATCH ASSEMBLY

CATE B2980-2

STEEL COMPRESSION SPRING

CATE IN1-103

LATCH FOR IN-110 5/8" SO LATCH, A36 STEEL, ZINC PLATED

IN-177 HORSESHOE FOR 180-DEG SPRING ASSIST

TSP-315US-LS SPRING #02 LEFT LONG, 180-DEG A401-10

TSP-315US-LL SPRING #03 LEFT LONG, 180-DEG A401-10

IN-177 HORSESHOE FOR 180-DEG SPRING ASSIST A36

30G01-T1 1/2" E STYLE RETAINING RING A693-06

ID231-WS-ITS 3/16 X 3 1/16 X 5 5/16 ID PLATE, WS-DOT A36

ID231-WS-BLANK-DP 3/16 X 3 1/16 X 5 5/16 ID PLATE, BLANK A36

APPROVED AS NOTED
Washington State Department of Transportation
HQ Traffic Operations Office

DATE: 10/19/2012

PROPRIETARY INFORMATION
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NOTES:
1. FRAME TO BE SQUARED AND RE-SQUARED

PLAN VIEW OF FRAME

END VIEW OF FRAME

BILL OF MATERIALS

<table>
<thead>
<tr>
<th>Item</th>
<th>Qty</th>
<th>Name</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>CAT# 35A57-F-1, 39-3/8 LONG</td>
<td>A36 STEEL</td>
</tr>
<tr>
<td>2</td>
<td>2</td>
<td>CAT# 35A57-F-2, 66-11/16 LONG</td>
<td>A36 STEEL</td>
</tr>
<tr>
<td>3</td>
<td>2</td>
<td>SQ 1/2 X 1-1/2</td>
<td>A36 STEEL</td>
</tr>
<tr>
<td>4</td>
<td>8</td>
<td>CAT# IN-103</td>
<td>A36 STEEL</td>
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<tr>
<td>5</td>
<td>12</td>
<td>CAT# HW-STUD38-625</td>
<td>C1015 STEEL</td>
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<td>6</td>
<td>6</td>
<td>CAT# HW-STUD38-300</td>
<td>C1015 STEEL</td>
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<tr>
<td>7</td>
<td>2</td>
<td>2 X 3/16 X 67</td>
<td>A36 STEEL</td>
</tr>
</tbody>
</table>

APPROVED
AS NOTED
Washington State Department of Transportation
HQ Traffic Operations Office

BY: ________________________________
DATE: ____________________

PROPRIETARY INFORMATION

Washington State Department of Transportation
HQ Traffic Operations Office

TYP. HINGE PLATE MUST BE RESTING ON BACK WALL OF FRAME.
APPROVED AS NOTED
Washington State Department of Transportation
HQ Traffic Operations Office
DATE: January 26, 2012

Approved for Standard Duty Cable Vaults Only.

BILL OF MATERIALS & MILL CERTS DOCUMENTS

<table>
<thead>
<tr>
<th>ITEM NUMBER</th>
<th>ITEM DESCRIPTION</th>
<th>MATERIAL</th>
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<tbody>
<tr>
<td>35A57-D</td>
<td>33&quot; X 36&quot; DOOR, DIAMOND PL TYPE</td>
<td>See Drawing</td>
</tr>
<tr>
<td>35A57-F</td>
<td>33-1/2&quot; X 66-11/16 CLR OPNG FRAME</td>
<td>See Drawing</td>
</tr>
<tr>
<td>85A35</td>
<td>3/8-16 X 2 LARGE HEAD PENTA BOLT</td>
<td>A193-10A</td>
</tr>
<tr>
<td>PIN18-3A</td>
<td>1/8&quot;0 X 1&quot; A36 STEEL</td>
<td>620 S.S.</td>
</tr>
<tr>
<td>IN-110</td>
<td>5/8&quot; SQ LATCH, A36 STEEL, ZINC PLATED</td>
<td>A36</td>
</tr>
<tr>
<td>IN-113</td>
<td>1/2&quot;0 HINGE PIN FOR 180-DEG</td>
<td>A36</td>
</tr>
<tr>
<td>TSP-315US-RL</td>
<td>SPRING #02 RIGHT SHORT, 180-DEG</td>
<td>A401-10</td>
</tr>
<tr>
<td>TSP-315US-LS</td>
<td>SPRING #02 LEFT SHORT, 180-DEG</td>
<td>A401-10</td>
</tr>
<tr>
<td>IN-177</td>
<td>HORSESHOE FOR 180-DEG SPRING ASSIST</td>
<td>A36</td>
</tr>
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<td>30G01-T1</td>
<td>1/2&quot; E STYLE REATTACHING RING</td>
<td>A693-06</td>
</tr>
<tr>
<td>ID231-WS-ITS</td>
<td>3/16 X 3-1/16 X 5-5/16 ID PLATE, WS-DOT</td>
<td>A36</td>
</tr>
<tr>
<td>ID231-WS-BLNK-DP</td>
<td>3/16 X 3-1/16 X 5-5/16 ID PLATE, BLANK</td>
<td>A36</td>
</tr>
</tbody>
</table>

DESIGN CRITERIA:
1. MATERIALS: All materials shall conform to the specifications listed in Appendix C of the Washington Department of Transportation's Standard Specifications for Highway Bridges.
2. DESIGN CRITERIA:
3. USE 16.0 KIP WHEEL LOAD WITH A 40X IMPACT FACTOR (22.500 kip).
4. Fv=0.88\(f_y=36.0\) ksi.
5. Fv=0.88\(f_y=14.0\) ksi.
6. LOAD DISTRIBUTION AREA \(10'x10'\).
7. REFER TO ASTM C-857 AS LAST REvised WHERE APPLICABLE.
8. USE AWS ER70-6 CO2 GAS SHIELDED WELDING WIRE.

NOTES:
- THIS FRAME AND COVER ASSEMBLY HAS BEEN DESIGNED IN ACCORDANCE WITH THE LOADING CRITERIA SET-FOURTH BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY & TRANSPORTATION OFFICIALS (AASHTO), AMERICAN SOCIETY FOR TESTING MATERIALS (ASTM C-857 AS LAST REvised WHERE APPLICABLE.
- THIS FRAME AND COVER ASSEMBLY HAS BEEN DESIGNED FOR USE IN TRAFFIC APPLICATION, OR IN AREAS SUBJECTED TO H-20-44 TRAFFIC CONDITIONS.

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INVESCO
114 NORTH COUNTY AVENUE
AZUSA, CALIFORNIA 91702
(626) 255-0900
FAX: (626) 305-3004

No. 35077
Exp. 6-30-12
Approved for Standard Duty Cable Vaults Only.

HORIZONTAL WELDS

INWESCO STANDARD DETAIL

The parts shown in the border make up a sub-assembly to be used in every similar top assembly. The bill of materials contained in this border shall not be duplicated in the assembly bill of materials. Therefore this sub-assembly is referred to as an INWESCO Standard Detail.
VERTICAL WELDS
Approved for Standard Duty Cable Vaults Only.

WASHINGTON STATE DEPARTMENT OF TRANSPORTATION
HQ TRAFFIC OPERATIONS OFFICE

APPROVED AS NOTED

WASHINGTON STATE DEPARTMENT OF TRANSPORTATION
HQ TRAFFIC OPERATIONS OFFICE

SECTION VIEW

INWESCO STANDARD DETAIL

The parts shown in this border make up a sub-assembly to be used in every similar top assembly. The bill of materials contained in this border shall not be duplicated in the assembly bill of materials. Therefore, this sub-assembly is referred to as an INWesco standard detail.