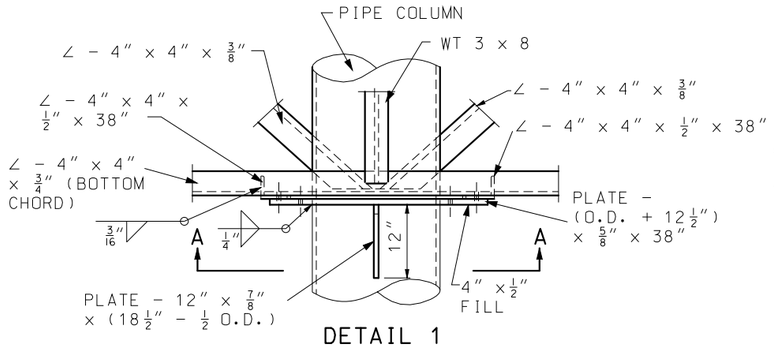
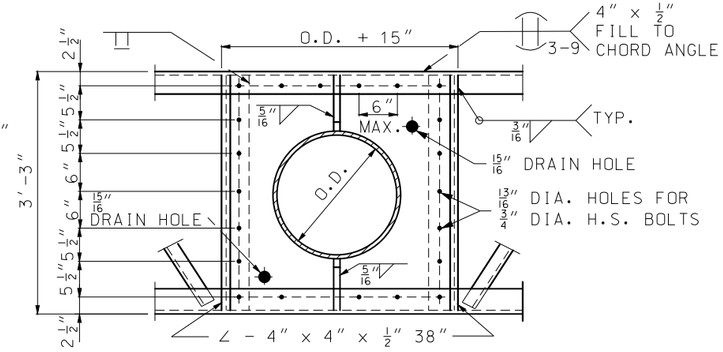
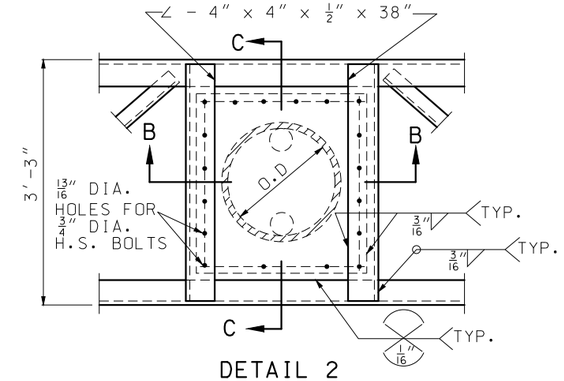


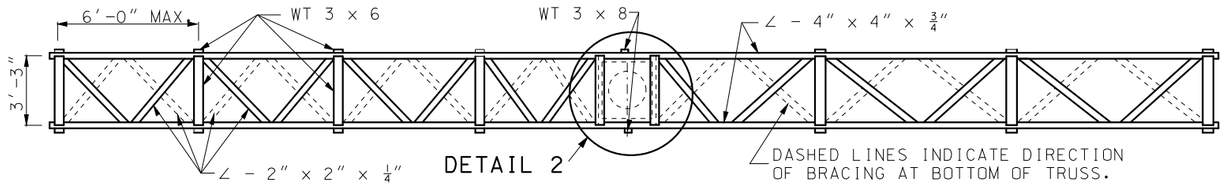
DETAIL 1
TRUSS BOTTOM CONNECTION TO COLUMN



SECTION A–A



DETAIL 2
TRUSS TOP CONNECTION TO COLUMN

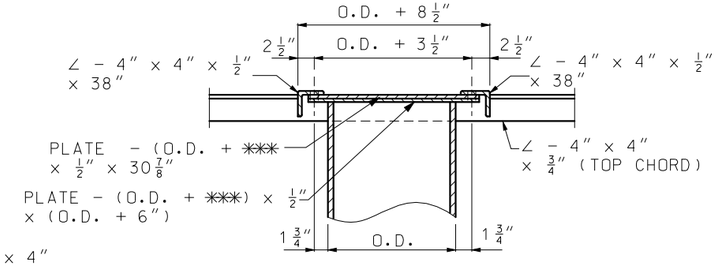


PLAN

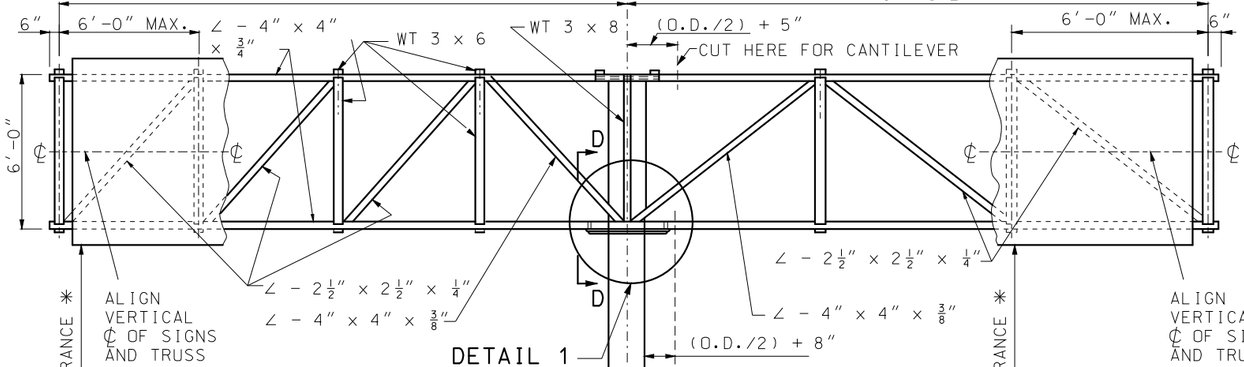
* 1 1/2" FOR POST TYPE VII
1 3/4" FOR ALL OTHER POST TYPES

** 3" FOR POST TYPE VII
3 1/2" FOR ALL OTHER POST TYPES

*** 5 1/2" FOR POST TYPE VII
6" FOR ALL OTHER POST TYPES



SECTION B–B



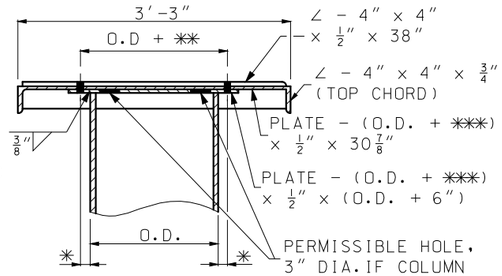
DETAIL 1

* IF LIGHTING IS SPECIFIED, VERTICAL CLEARANCE IS MEASURED TO THE LOWEST POINT OF LIGHTING BRACKET.

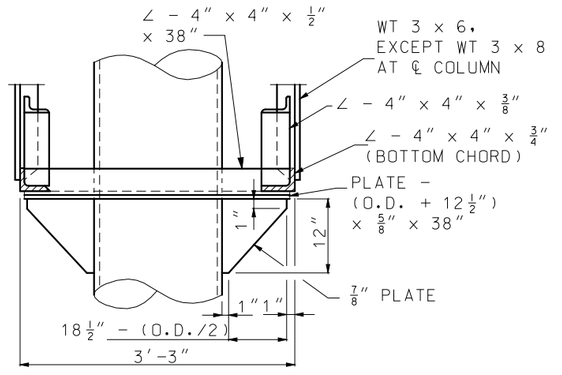
NOTE:
TRUSSES AND COLUMN BASE PLATES: ASTM A36, ANCHOR BOLTS: ASTM A307.
FOR ADDITIONAL INFORMATION, SEE DATA SHEET.

ELEVATION
DRILLED SHAFT OPTION

ELEVATION
SPREAD FOOTING OPTION



SECTION C–C



SECTION D–D

GENERAL NOTES:

ALL FASTENERS SHALL HAVE A HARDENED WASHER UNDER THE NUT OR BOLT HEAD, WHICHEVER IS TURNED IN TIGHTENING.

ZINC CHROMATE PRIMER SHALL MEET THE REQUIREMENTS OF FEDERAL SPECIFICATION TT-P-645 OR TT-P-1757 AND SHALL BE ACCEPTED ON THE BASIS OF THE LABEL SHOWING CONFORMANCE OR A MANUFACTURER'S CERTIFICATION.

DESIGN OF STRUCTURAL SUPPORTS SHALL COMPLY WITH AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS 2001 AND CURRENT INTERIMS.

DESIGN OF SPREAD FOOTINGS SHALL COMPLY WITH 1994 AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS.

ALL SIGNS SHALL BE CENTERED VERTICALLY ABOUT THE HORIZONTAL ℄ OF THE TRUSS.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

STATE OF MISSOURI
EILEEN H. RACKERS
NUMBER PE-28336
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

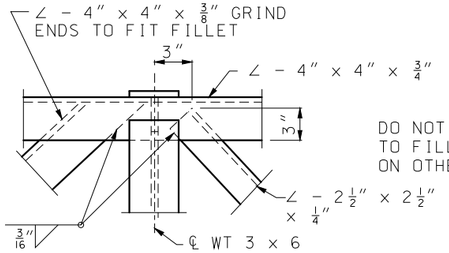
OVERHEAD SIGN TRUSSES
BUTTERFLY AND CANTILEVER STRUCTURAL STEEL

DATE EFFECTIVE: 10-01-2016
DATE PREPARED: 8/11/2016

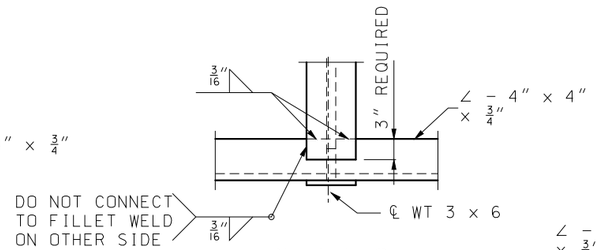
903.12Z

SHEET NO. 1 OF 7

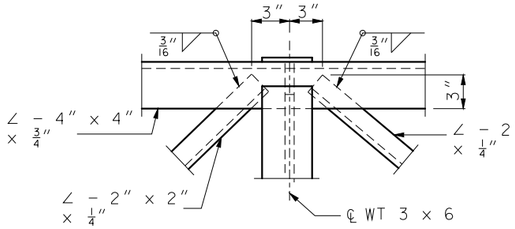
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



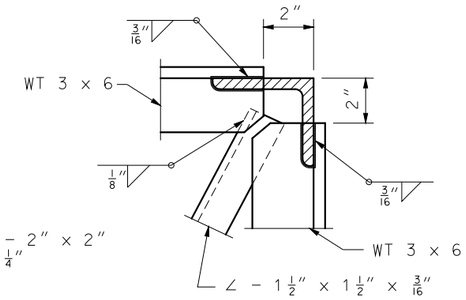
DETAIL 1



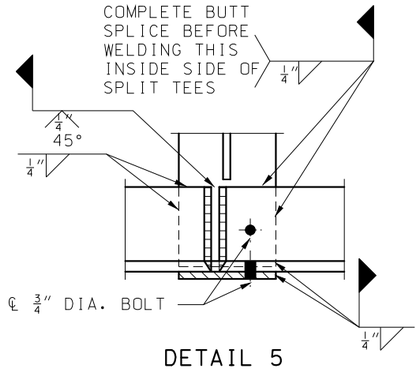
DETAIL 2



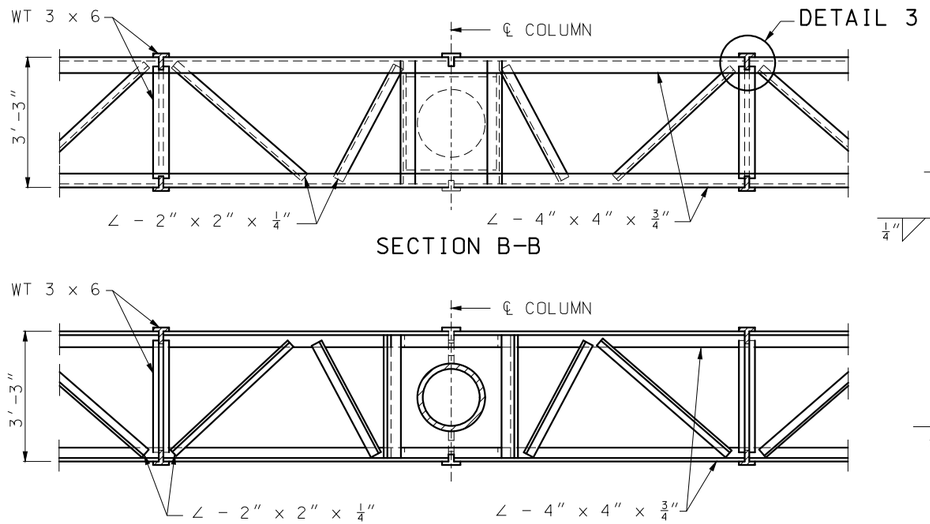
DETAIL 3



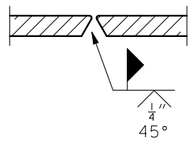
DETAIL 4



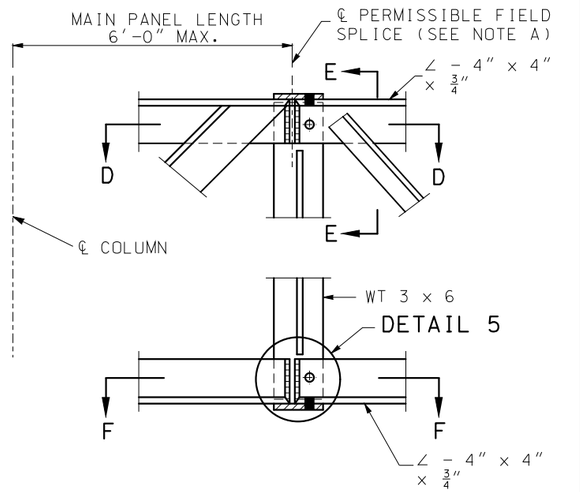
DETAIL 5



SECTION B–B

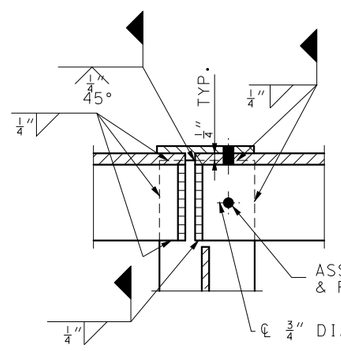


SECTION D–D

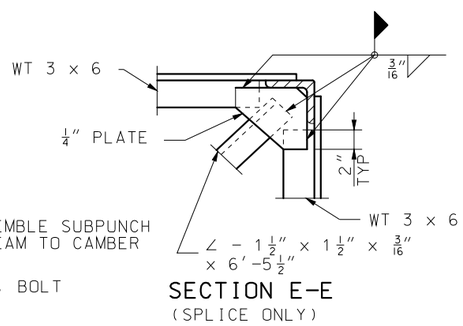


LOCATION OF FIELD SPLICE

SECTION C–C

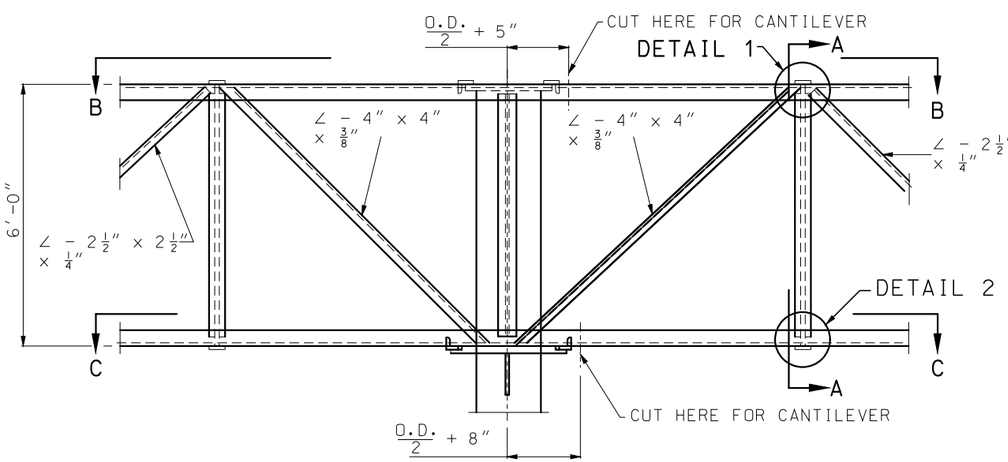


SECTION F–F

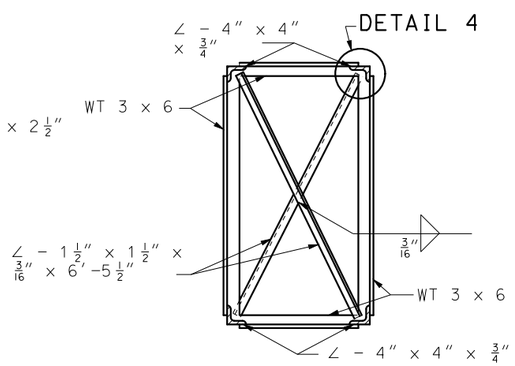


SECTION E–E
(SPLICE ONLY)

NOTE: ¾″ DIA. BOLTS SHALL BE REMOVED AFTER WELDING IS COMPLETE. BOLT HOLES SHALL BE PLUGGED AND THE OUTSIDE FACE GROUND SMOOTH.



PART ELEVATION OF BUTTERFLY TRUSS



SECTION A–A

NOTE: SHRINK ∠ – 1½″ x 1½″ x ⅜″ IF NECESSARY TO TAKE UP DISTORTIONAL SLACK.

NOTE A: SPLICING CHORD ANGLES IN THE SHOP AND THE FIELD SPLICE SHOWN IN THIS SHEET WILL NOT BE ALLOWED WITHOUT SPECIAL PERMISSION. IF PERMISSION IS GRANTED SUCH SPLICES SHALL BE LOCATED AT THE CENTER LINE OF MAIN PANEL POINT NEXT TO COLUMN.

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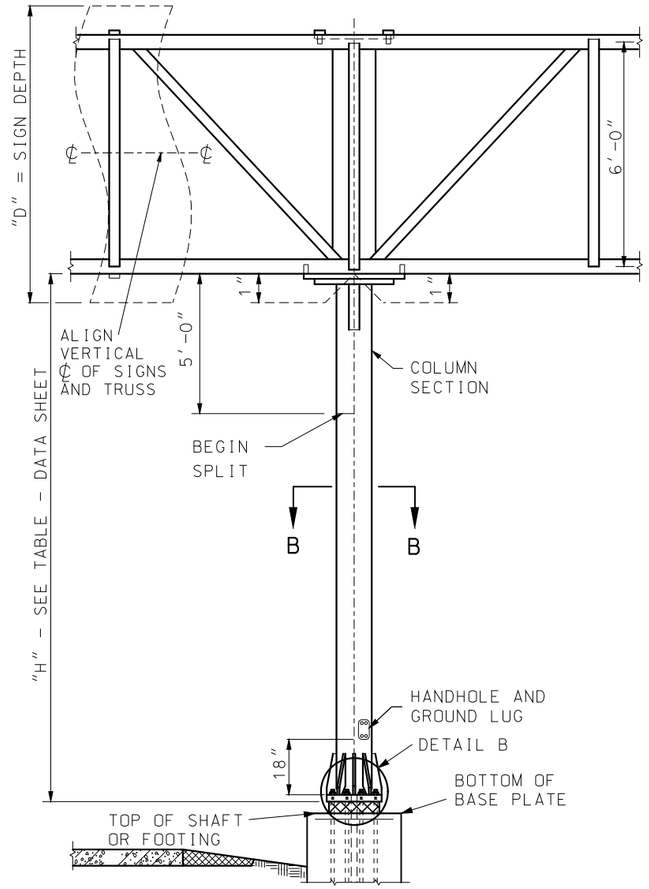
STATE OF MISSOURI
EILEEN H. RACKERS
NUMBER PE-28336
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

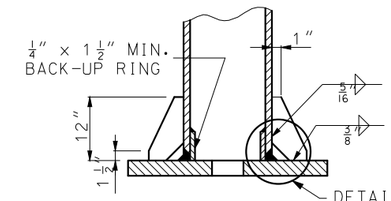
OVERHEAD SIGN TRUSSES
BUTTERFLY & CANTILEVER STRUCTURAL STEEL

DATE EFFECTIVE: 10-01-2016
DATE PREPARED: 8/11/2016

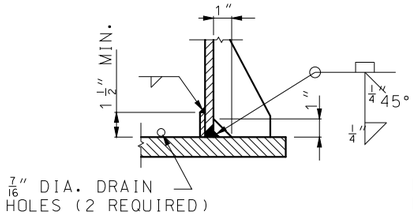
903.12Z

SHEET NO. 2 OF 7

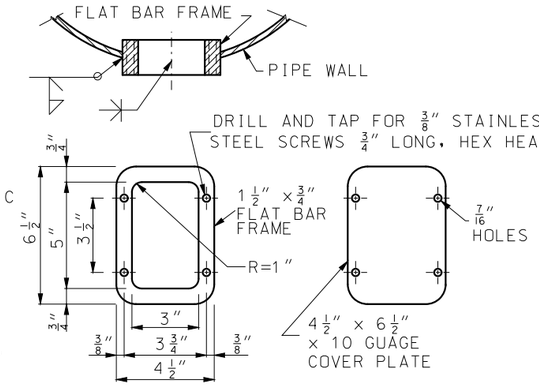




DETAIL B
(SECTION VIEW SHOWN)

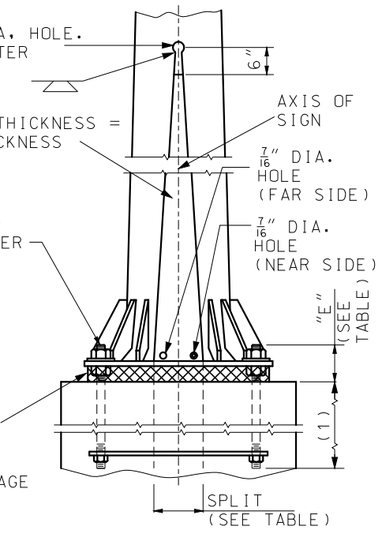


DETAIL C



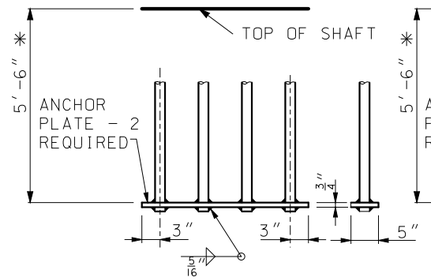
HANDHOLE AND COVER DETAILS

NOTE:
HANDHOLE REQUIRED ONLY IN POWER COLUMN.

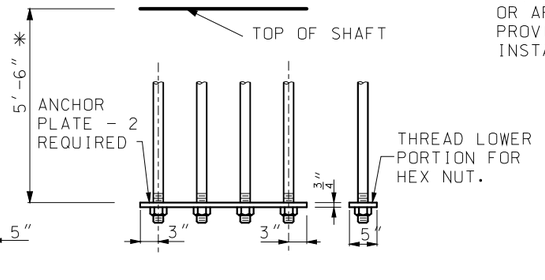


A GALVANIZED SCREEN SHALL BE USED BETWEEN THE POST BASE PLATE AND CONCRETE BASE. SCREENS SHALL BE PRESS-FORMED OF 3 OR 4 MESH. 21 GAGE OR HEAVIER. STAINLESS STEEL OR HOT-DIPPED GALVANIZED WIRE SCREEN OR APPROVED EQUIVALENT. THAT WILL PROVIDE A FRICTION-TIGHT FIT WHEN INSTALLED.

PART ELEVATION



DETAIL A
ANCHORAGE



DETAIL A
OPTIONAL ANCHORAGE

(BOTH DETAILS ARE SHOWN FOR 4 BOLTS - SIMILAR FOR 3 BOLTS)
* DIMENSION SHOWN FOR DRILLED SHAFT OPTION. FOR SPREAD FOOTING OPTION REFER TO SHEET 6 OF 7.

GENERAL NOTES:

SUBSTRUCTURE SHALL BE BACKFILLED PRIOR TO ERECTION OF POST.

ASTM A 106 GRADE B STEEL PIPE OR A TAPERED TUBE OF EQUIVALENT SIZE AND THICKNESS MAY BE SUBSTITUTED FOR PIPE POST.

ALL STEEL PIPE COLUMNS SHALL BE EITHER GRADE "B" SEAMLESS STEEL PIPE OR GRADE "B" ELECTRIC RESISTANCE WELDED STEEL PIPE; A.S.T.M. SPECIFICATION A53.

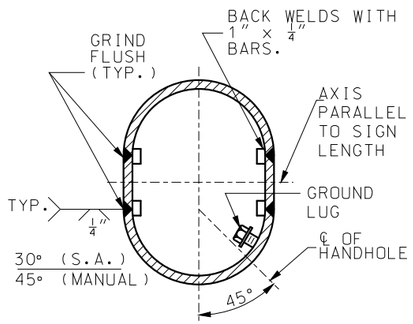
ALL STRUCTURES SHALL BE GROUNDED.

BURR THREADS ON ALL ANCHOR BOLTS.

A HORIZONTAL WELDED SPLICE MAY BE FABRICATED IN THE COLUMN BETWEEN THE TOP OF PIPE AND 4'-0" BELOW THE BOTTOM CHORDS OF THE TRUSS WHEN DETAILED ON THE SHOP DRAWINGS AND APPROVED BY THE ENGINEER.

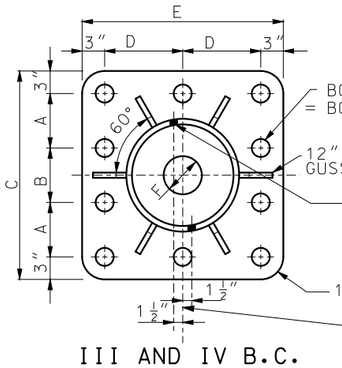
GROUND LUGS SHALL BE LOCATED INSIDE COLUMN NEAR HAND HOLE.

ALL SIGNS SHALL BE CENTERED VERTICALLY ABOUT THE HORIZONTAL ℄ OF THE TRUSS.

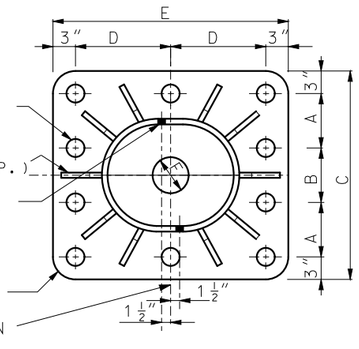


SECTION B-B
(FOR SPLIT COLUMNS ONLY)

TYPICAL BASE PLATE (10 ANCHOR TYPE) BUTTERFLY AND CANTILEVER (B.C.)					
	III	IV	V	VI	VII
A	8"	9"	8"	9"	10½"
B	10"	10"	10"	10"	11"
C	32"	34"	32"	34"	38"
D	13"	14"	16½"	18"	20"
E	32"	34"	39"	42"	46"
F	6"	6"	6"	6"	6"



III AND IV B.C.



V, VI, AND VII B.C.

TYPICAL BASE PLATES

NOTE:
FOR DETAILS OF OPTIONAL SUBSTRUCTURES, SEE OTHER SHEETS.

ANCHOR BOLTS AND PLATE NOT SHOWN.

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NUMBER PE-28336
PROFESSIONAL ENGINEER
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OVERHEAD SIGN TRUSS
COLUMN AND BASE PLATES

DATE EFFECTIVE: 10-01-2016
DATE PREPARED: 8/11/2016

903.12Z

SHEET NO. 3 OF 7

DRILLED SHAFT OPTION

POST TYPE	PIPE COLUMN O.D.	PIPE COLUMN WEIGHT (LBS.)	"E"	SPLIT	BASE PLATE SIZE**	ANCHOR BOLT NO.	ANCHOR BOLT DIA.	C	FA	FB	FC	FD	FH	COLLAR REINFORCEMENT MOMENT-C1 BARS	MOMENT-C1 SPACING	SHEAR-C2 BARS	SHEAR-C2 SPACING	SKIN-C3 BARS	SKIN-C3 SPACING	SHAFT REINFORCEMENT LONGITUDINAL S1 QUANTITY	LONGITUDINAL S1 BARS	SHEAR-S2 BARS	SHEAR-S2 SPACING	REBAR TOTAL (LBS.)	CONCRETE (CU.YDS.)
III	18"	93.45	8½"	0"	2'-8" x 2'-8" x 1¾"	10	2"	2'-10"	4'-0"	7'-6"	1'-6"	4'-6"	14'-0"	#6	6"	#4	12"	#4	12"	19	#10	#5	6"	2126	12.4
IV	20"	104.13	8½"	0"	2'-10" x 2'-10" x 2"	10	2¼"	3'-0"	4'-0"	7'-6"	1'-6"	4'-6"	14'-0"	#6	6"	#4	12"	#4	12"	19	#10	#5	6"	2126	12.4
V	18"	93.45	8½"	7"	3'-3" x 2'-8" x 2"	10	2¼"	2'-10"	5'-0"	13'-6"	4'-0"	5'-6"	17'-0"	#6	6"	#4	12"	#4	12"	22	#11	#6	6"	3901	26.5
VI	20"	104.13	8½"	8"	3'-6' x 2'-10" x 2¼"	10	2¼"	3'-0"	5'-0"	14'-0"	4'-0"	6'-0"	18'-0"	#6	6"	#4	12"	#4	12"	27	#11	#6	6"	4742	31.8
VII	24"	125.49	9"	8"	3'-10" x 3'-2" x 2¼"	10	2½"	3'-4"	5'-0"	14'-0"	4'-0"	6'-0"	18'-0"	#6	6"	#4	12"	#4	12"	27	#11	#6	6"	4742	31.8

ALTERNATE PEDESTALS

POST TYPE	REBAR TOTAL (LBS.) TYPE A	REBAR TOTAL (LBS.) TYPE C	CONCRETE (CU.YDS.) TYPE A	CONCRETE (CU.YDS.) TYPE C
III	2066	2077	13.4	14.5
IV	2066	2077	13.5	14.6
V	3763	3782	28.8	30.7
VI	4528	4547	34.1	36.2
VII	4528	4547	34.5	36.8

SPREAD FOOTING OPTION

POST TYPE	PIPE COLUMN O.D.	PIPE COLUMN WEIGHT (LBS.)	"E"	SPLIT	BASE PLATE SIZE**	ANCHOR BOLT NO.	ANCHOR BOLT DIA.	PEDESTAL SIZE * a	PEDESTAL SIZE * b	FOOTING SIZE *	LONGITUDINAL FOOTING REINFORCEMENT TOP NO.	TOP BARS	BOTTOM NO.	BOTTOM BARS	PEDESTAL REINFORCEMENT NO.	PEDESTAL REINFORCEMENT BARS	NO.	BARS	REBAR TOTAL (LBS.)	CONCRETE (CU.YDS.)
III	18"	93.45	8½"	0"	2'-8" x 2'-8" x 1¾"	10	2"	4'-2"	3'-8"	10'-0" x 13'-0"	10	#5	10	#5	10	#4	14	#8	695	14.4
IV	20"	104.13	8½"	0"	2'-10" x 2'-10" x 2"	10	2¼"	4'-4"	3'-10"	10'-0' x 14'-0"	10	#5	10	#5	10	#4	14	#8	733	15.6
V	18"	93.45	8½"	7"	3'-3" x 2'-8" x 2"	10	2¼"	4'-9"	3'-8"	9'-0" x 17'-0"	9	#5	10	#7	10	#4	14	#8	955	16.5
VI	20"	104.13	8½"	8"	3'-6' x 2'-10" x 2¼"	10	2¼"	5'-0"	3'-10"	9'-0" x 19'-0"	9	#5	10	#7	10	#4	14	#8	1028	18.4
VII	24"	125.49	9"	8"	3'-10" x 3'-2" x 2¼"	10	2½"	5'-4"	4'-2"	10'-0" x 20'-0"	9	#5	12	#7	10	#4	14	#8	1196	21.5

SPREAD FOOTING OPTION WITH ALTERNATE PEDESTALS

POST TYPE	PIPE COLUMN O.D.	PIPE COLUMN WEIGHT (LBS.)	"E"	SPLIT	BASE PLATE SIZE**	ANCHOR BOLT NO.	ANCHOR BOLT DIA.	PEDESTAL SIZE * c	PEDESTAL SIZE * d	PEDESTAL SIZE * e	FOOTING SIZE *	TYPE A LONGITUDINAL FOOTING REINFORCEMENT TOP NO.	TOP BARS	BOTTOM NO.	BOTTOM BARS	TYPE A PEDESTAL REINFORCEMENT NO.	NO.	BARS	NO.	BARS	TYPE A REBAR TOTAL (LBS.)	TYPE A CONCRETE (CU.YDS.)	TYPE C LONGITUDINAL FOOTING REINFORCEMENT TOP NO.	TOP BARS	BOTTOM NO.	BOTTOM BARS	TYPE C PEDESTAL REINFORCEMENT NO.	BARS	NO.	BARS	TYPE C REBAR TOTAL (LBS.)	TYPE C CONCRETE (CU.YDS.)
III	18"	93.45	8½"	0"	2'-8" x 2'-8" x 1¾"	10	2"	2'-10"	6'-6"	15"	10'-0" x 13'-0"	10	#5	10	#5	10	#4	14	#8	757	14.4	10	#4	10	#5	12	#4	14	#8	800	15.3
IV	20"	104.13	8½"	0"	2'-10" x 2'-10" x 2"	10	2¼"	3'-0"	6'-9"	18"	10'-0' x 14'-0"	10	#5	10	#5	10	#4	14	#8	795	15.6	10	#4	10	#5	12	#4	14	#8	839	16.5
V	18"	93.45	8½"	7"	3'-3" x 2'-8" x 2"	10	2¼"	2'-10"	7'-0"	12"	9'-0" x 17'-0"	9	#5	10	#7	10	#4	14	#8	1015	16.5	10	#4	10	#7	12	#4	14	#8	1059	17.5
VI	20"	104.13	8½"	8"	3'-6' x 2'-10" x 2¼"	10	2¼"	3'-0"	7'-6"	15"	9'-0" x 19'-0"	9	#5	10	#7	10	#4	14	#8	1099	18.4	10	#4	10	#7	12	#4	14	#8	1134	19.5
VII	24"	125.49	9"	8"	3'-10" x 3'-2" x 2¼"	10	2½"	3'-4"	7'-10"	15"	10'-0" x 20'-0"	9	#5	12	#7	10	#4	14	#8	1257	21.5	10	#4	12	#7	12	#4	14	#8	1302	22.6

* BASE PLATES, PEDESTAL AND FOOTINGS, LONGER SIDES SHALL BE NORMAL TO AXIS OF SIGN.
** BASE PLATES, PEDESTAL AND FOUNDATIONS, LONGER SIDES SHALL BE NORMAL TO AXIS OF SIGN.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

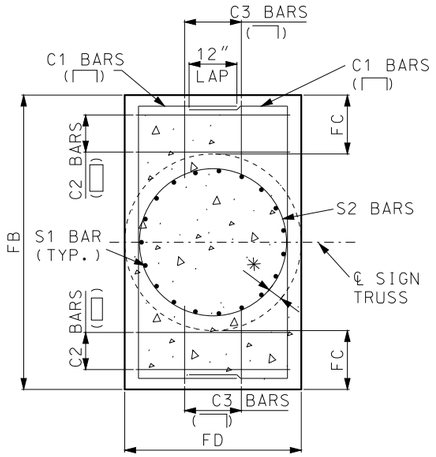
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

STATE OF MISSOURI
EILEEN H. RACKERS
NUMBER PE-28336
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

OVERHEAD SIGN TRUSSES
OPTIONAL SUBSTRUCTURE DATA

DATE EFFECTIVE: 10-01-2016
DATE PREPARED: 8/11/2016

903.12Z

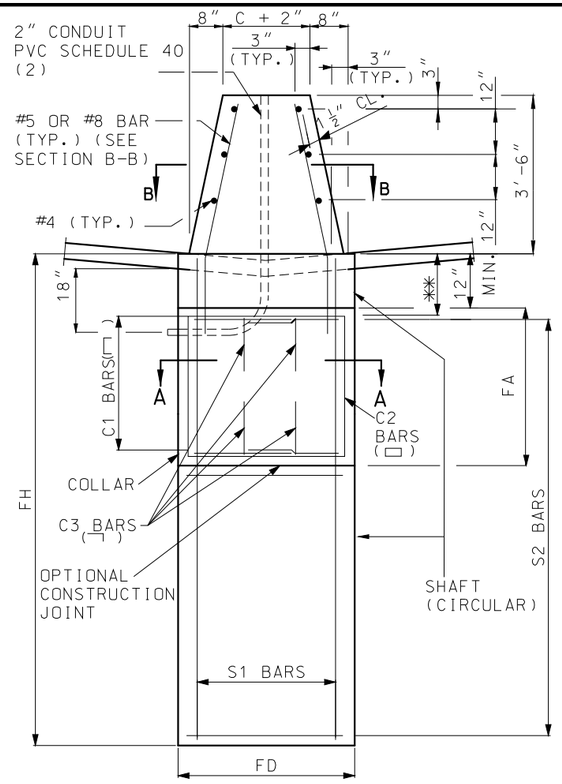


SECTION A-A

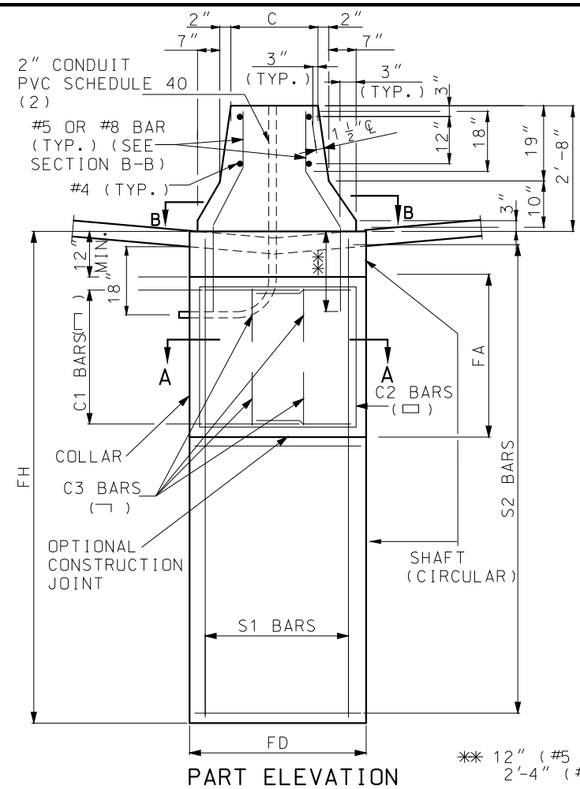
(TYPICAL SECTION SHOWING REINFORCING STEEL)

✳ 4" CLEAR FOR FD = 4'-6"
6" CLEAR FOR FD > 4'-6"

VERTICAL LEG OF C3 SHALL BE PLACED INSIDE SHAFT S2 BARS.

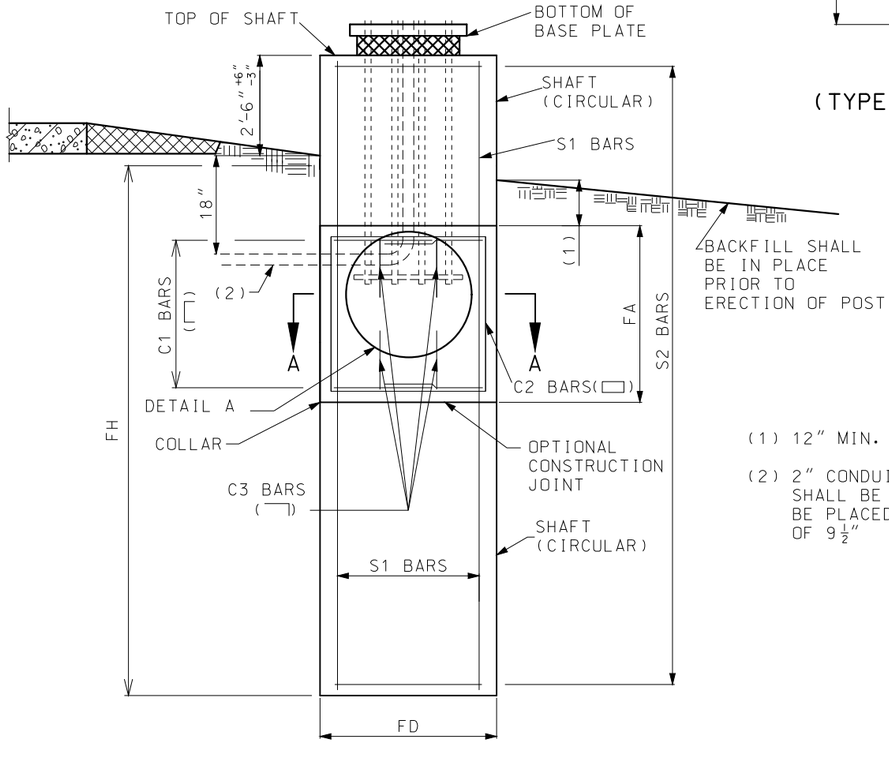


PART ELEVATION
(TYPE C CONCRETE TRAFFIC BARRIER)



PART ELEVATION
(TYPE A CONCRETE TRAFFIC BARRIER)

✳✳ 12" (#5 BAR)
2'-4" (#8 BAR)



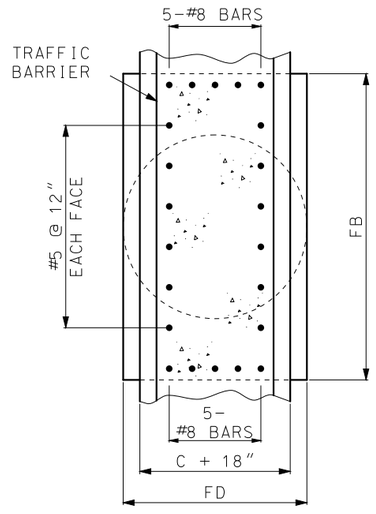
ELEVATION

DETAILS OF ALTERNATE PEDESTAL

(TO BE USED ADJACENT TO TYPE A OR TYPE C MEDIAN BARRIER)

(1) 12" MIN. TO 24" MAX.

(2) 2" CONDUIT IN THE CONCRETE PEDESTAL SHALL BE PVC SCHEDULE 40 AND SHALL BE PLACED WITH A MINIMUM BEND RADIUS OF 9½"



SECTION B-B

GENERAL NOTES:

SHAFT AND COLLAR SHALL BE CLASS B (P.C.C.).

MINIMUM CLEARANCE TO REINFORCEMENT IS 3" EXCEPT AS SHOWN.

WHEN ROCK IS ENCOUNTERED AT A DEPTH NOT EXCEEDING "FH"/2 FOR FD > 3'-0" OR "FH"/4 FOR FD ≤ 3'-0", THE DIMENSION "FH" MAY BE ADJUSTED TO A MINIMUM OF 3 X "FD", SUBJECT TO APPROVAL BY THE ENGINEER.

CONTACT THE ENGINEER IF WATER TABLE IS ENCOUNTERED DURING EXCAVATION.

PIPE COLUMN, BASE PLATE, ANCHOR BOLTS AND NOTES PERTAINING TO THESE ITEMS HAVE BEEN OMITTED FOR CLARITY. REFER TO SHEET 3 OF 7 FOR DETAILS OF THESE ITEMS.

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STATE OF MISSOURI
EILEEN H. RACKERS
NUMBER PE-28336
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

OVERHEAD SIGN TRUSSES
DRILLED SHAFT OPTION

DATE EFFECTIVE: 10-01-2016
DATE PREPARED: 8/11/2016

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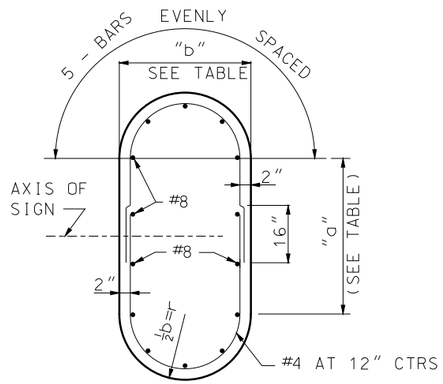
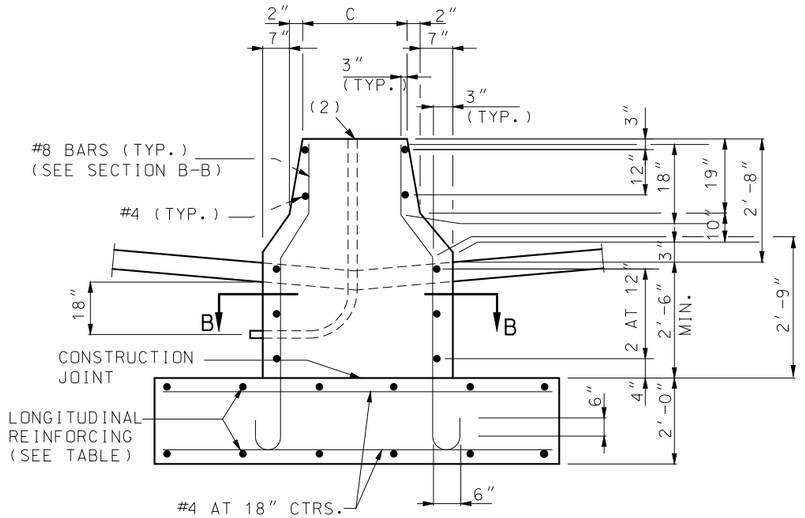
SHEET NO. 5 OF 7

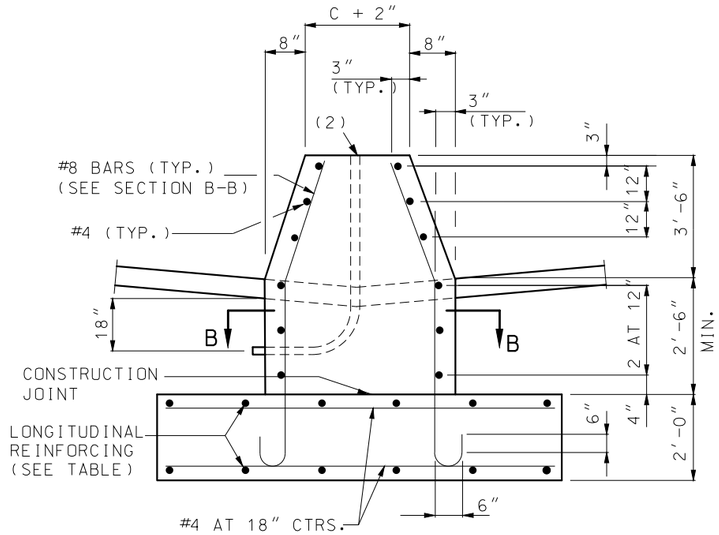
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



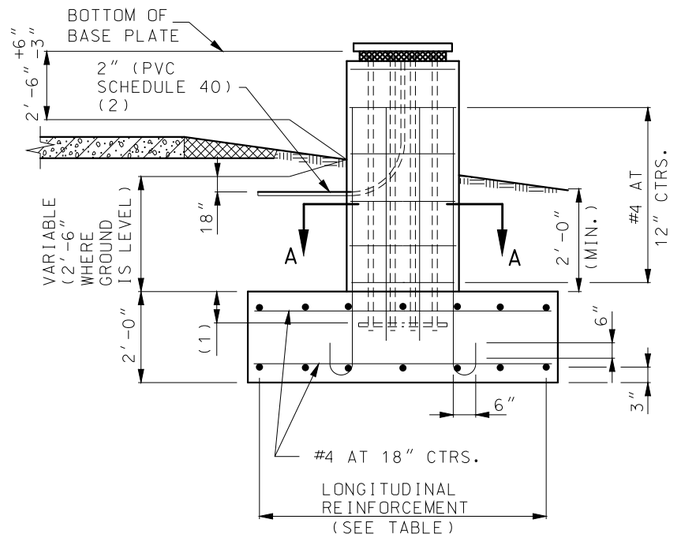
SECTION A-A
(TYPICAL SECTION SHOWING REINFORCING STEEL)



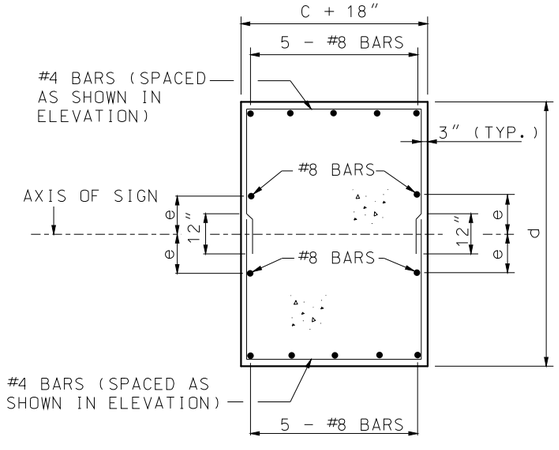
PART ELEVATION
(TYPE A CONCRETE TRAFFIC BARRIER)



PART ELEVATION
(TYPE C CONCRETE TRAFFIC BARRIER)



ELEVATION



SECTION B-B
TYPICAL SECTION SHOWING
REINFORCING STEEL

DETAILS OF ALTERNATE PEDESTAL

(1) $12''^{+6''}_{-3''}$ (DETAIL FOR 12" FIELD TOLERANCE)

(2) 2" CONDUIT IN THE CONCRETE PEDESTAL SHALL BE PVC SCHEDULE 40 AND SHALL BE PLACED WITH A MINUMUM BEND RADIUS OF $9\frac{1}{2}$".

GENERAL NOTES:

PEDESTAL AND FOOTING SHALL BE CLASS B (P.C.C.).

MINIMUM CLEARANCE TO REINFORCEMENT IS 3" EXCEPT AS SHOWN.

CONTACT THE ENGINEER IF WATER TABLE IS ENCOUNTERED DURING EXCAVATION.

PIPE COLUMN, BASE PLATE, ANCHOR BOLTS AND NOTES PETAINING TO THESE ITEMS HAVE BEEN OMITTED FOR CLARITY. REFER TO SHEET 3 OF 7 FOR DETAILS OF THESE ITEMS.

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NUMBER PE-28336
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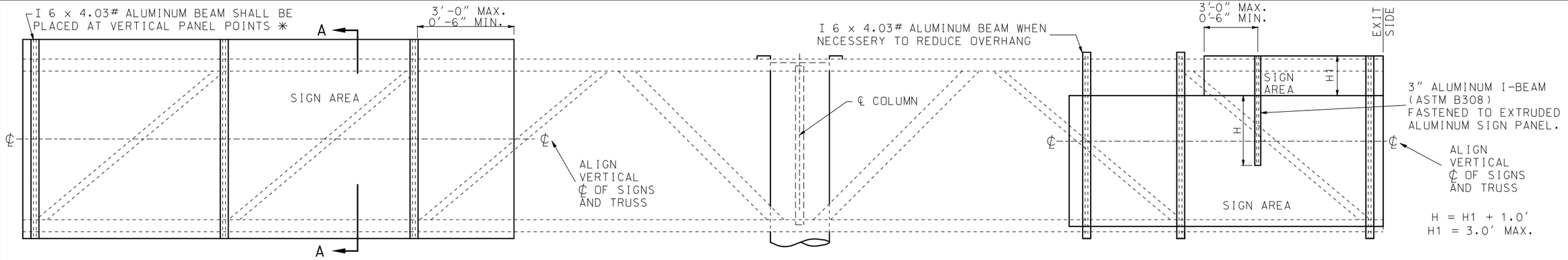
OVERHEAD SIGN TRUSSES
SPREAD FOOTING

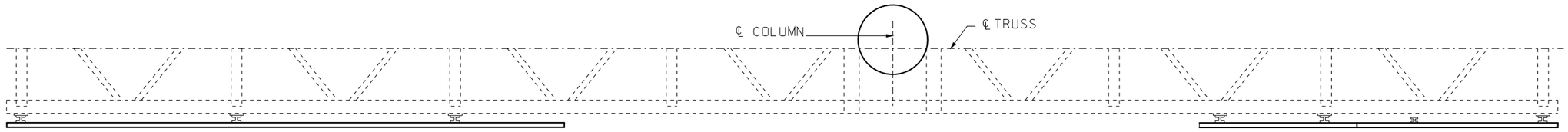
DATE EFFECTIVE: 10-01-2016
DATE PREPARED: 8/11/2016

903.12Z

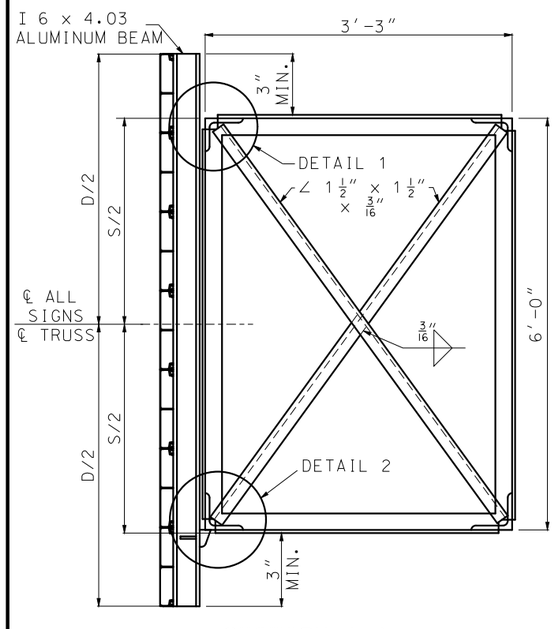
SHEET NO. 6 OF 7



TYPICAL ELEVATION OF SIGNS COMPONENTS

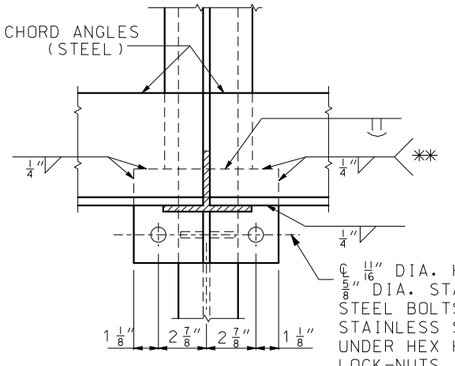


TYPICAL PLAN OF SIGN COMPONENTS



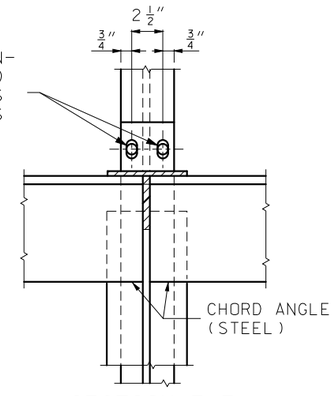
SECTION A-A
TYPICAL SECTION
OF SIGN SUPPORT

NOTE:
"D" = GREATEST OVERALL DEPTH
OF ANY SIGNS ON TRUSSES.

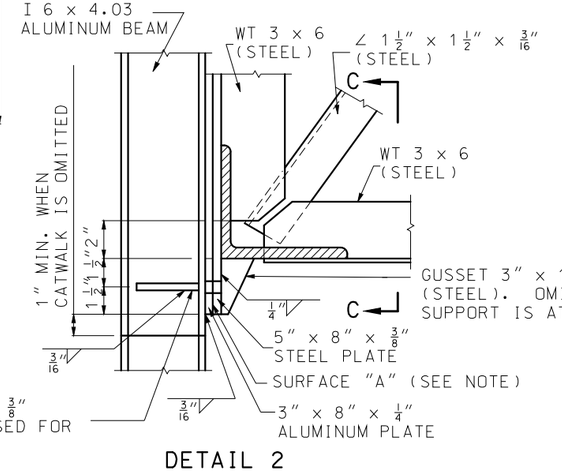


SECTION C-C

9/16" DIA. HOLES IN ALUMINUM FLANGE.
9/16" x 1" SLOT IN 5/8" ℄ FOR ½" DIA. STAINLESS STEEL HEX HEAD BOLTS AND LOCK-NUTS WITH FLAT STAINLESS STEEL WASHERS.

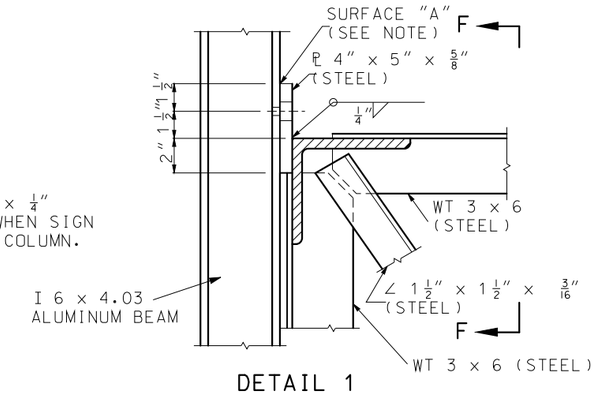


SECTION F-F



TWO - GUSSETS 5" x 1" x 3/8" (ALUM.) OMIT WHEN NOT USED FOR CATWALK SUPPORT.

DETAIL 2



DETAIL 1

NOTE:
SURFACE "A", ZINC CHROMATE ON ALUMINUM SURFACES. NORMAL CLEANING AND PAINTING ON STEEL SURFACES. ZINC CHROMATE IS NOT REQUIRED WHEN STEEL IS GALVANIZED.

✳ FOR SIGN HEIGHTS GREATER THAN 17'-0", BUT LESS THAN OR EQUAL TO 20'-0" USE ADDITIONAL I 6 x 4.03 ALUMINUM BEAMS TO ACHIEVE A MAXIMUM SPACING OF 4'-0" BETWEEN SIGN SUPPORTS.

✳✳ WHEN SIGN SUPPORTS ARE PLACED BETWEEN VERTICAL PANEL POINTS AS ILLUSTRATED IN TYPICAL ELEVATION OF SIGNS COMPONENTS, WELD THE ⅜" STEEL PLATE TO THE BOTTOM CHORD WITH A ¼" FILLET WELD.

GENERAL NOTES:

EXIT NO. PANELS SHALL BE MONTED FLUSH WITH THE EXIT SIDE OF THE GUIDE SIGN.

ALL SIGNS SHALL BE CENTERED VERTICALLY ABOUT THE HORIZONTAL ℄ OF THE TRUSS.

FOR SIGN MOUNTING DETAILS, SEE STANDARD PLANS 903.03.

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NUMBER PE-28336
PROFESSIONAL ENGINEER
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OVERHEAD SIGN TRUSSES
STRUCTURAL STEEL BUTTERFLY AND CANTILEVER

DATE EFFECTIVE: 10-01-2016
DATE PREPARED: 8/11/2016

903.12Z

SHEET NO. 7 OF 7

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.