FABRIC CANOPIES
DSA PRE-CHECK

Most anywhere in California

ABBREVIATIONS & SYMBOLS

A	AREA
DIM.	DIMENSION
EA.	EACH
EXT.	EXTERIOR
FT.	FOOT OR FEET
GA	GAGE
INSP.	INSPECTIONS
INT.	INTERIOR
KSI	KIPS PER SQUARE INCH
I	MOMENT OF INERTIA
LB	POUND
MIN.	MINIMUM
NA	NOT APPLICABLE
NO.	NUMBER
OZ.	OUNCES
PL	PLATE
PSF	POUND PER SQUARE FOOT
S	SECTION MODULOUS
SHT.	SHEET
SIM.	SIMILAR
SQ.	SQUARE
Std.	STANDARD
STRUC.	STRUCTURAL
SYM.	SYMMETRICAL
t	THICKNESS
TYP.	TYPICAL
U.O.N.	UNLESS OTHERWISE NOTED
xS	EXTRA STRONG
Ø	DIAMETER
#	NUMBER
<	LESS THAN
>	GREATER THAN

1555 Tahoe Court
Redding, CA 96003
www.nspx3.com

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(877) 473-7619

SCHEDULE OF DRAWINGS

SHT.#	DRAWING TITLE
1	COVER SHEET
2	CANOPY PLANS, TABLES & NOTES
3	TYPICAL CANOPY BRACING DETAILS
4	TYP. CANOPY DET. & T&I GUIDELINE

CANOPY SIZES INCLUDED
(ALL DIMENSIONS ARE LISTED IN FEET)

PLAN DIM.	PLAN DIM.	PLAN DIM.
20 x 10	30 x 20	30 x 30
20 x 15	30 x 25	40 x 30
20 x 20	36 x 18	
25 x 25	40 x 20	

NOTE: PLAN DIMENSIONS ARE REPEATABLE IN ONE DIRECTION UP TO 6,000 SQ. FT.
HEIGHT OPTIONS ARE FROM 9FT TO 12FT.

AREAS OF CALIFORNIA WHERE THIS CANOPY PRE-CHECK DOES NOT APPLY:

1) AREAS WHERE THERE ARE SNOW LOADS.
2) AREAS WHERE THERE IS WIND SPEED-UP DUE TO TOPOGRAPHICAL EFFECTS AS DEFINED BY SECTION 6.5.7 OF ASCE 7.
3) WIND EXPOSURE "D" AREAS.
4) WILD LAND URBAN INTERFACE FIRE AREA (FIRE HAZARD SEVERITY ZONES)

BUILDING ANALYSIS DATA:

OCCUPANCY GROUP: A-3

CONSTRUCTION TYPE: V-B

ALLOWABLE AREA: 6,000 SF

NOTE: THE LOCATION OF THESE CANOPIES ADJACENT TO OTHER BUILDINGS IS SUBJECT TO SITE SPECIFIC APPROVAL.

APPLICABLE CODES AND STANDARDS:

* 2007 CALIF. ADMIN. CODE, TITLE 24, PART 1, CCR
* 2007 CALIF. BUILDING CODE, TITLE 24, PART 2, CCR
* 2007 CALIF. FIRE CODE, TITLE 24, PART 9, CCR

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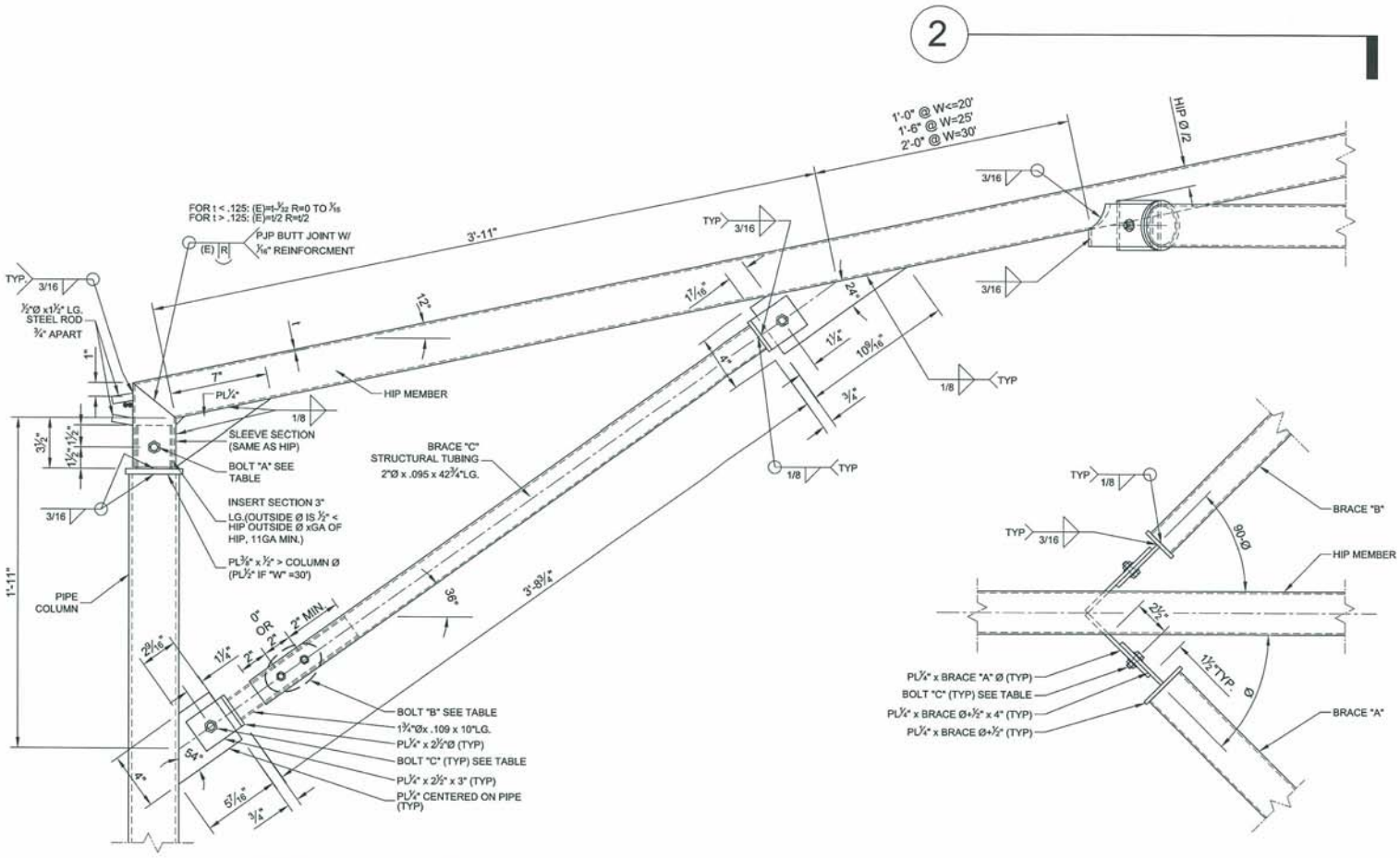
PC
APPL. #: 02-110085
AC FL SS
DATE 9-3-2009

DRAWING TITLE:
COVER SHEET

REVISIONS

NO.	DESCRIPTION	DATE

FILE NAME: CustCan.dwg	JOB NO.:
DRAWN BY: R. Eddington	DRAWING NO. 1
DATE: 8/17/09	OF 4 SHEETS



1 TYPICAL EXT. COL. - HIP CONNECTION
SCALE: 1-1/2" = 1'-0"

2 HORIZONTAL BRACE CONNECTION
SCALE: 1-1/2" = 1'-0"

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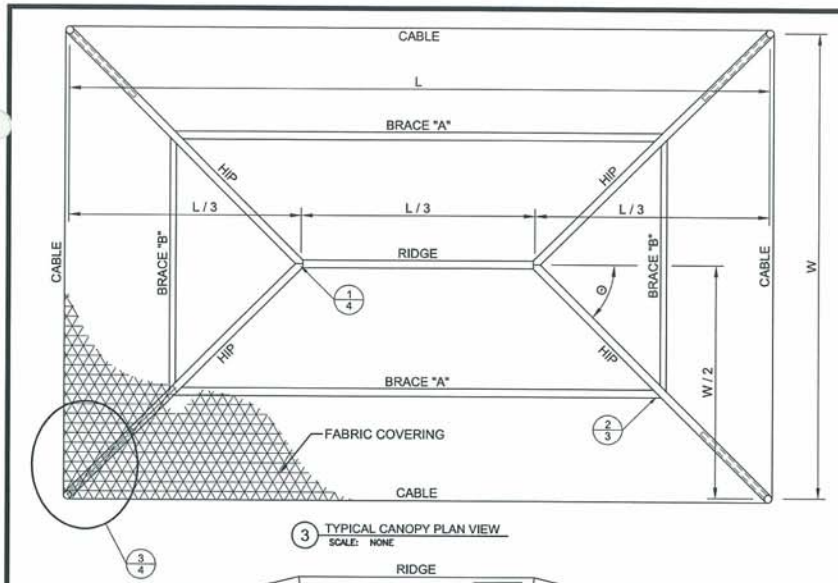
DRAWING TITLE:
TYPICAL CANOPY BRACING DETAILS

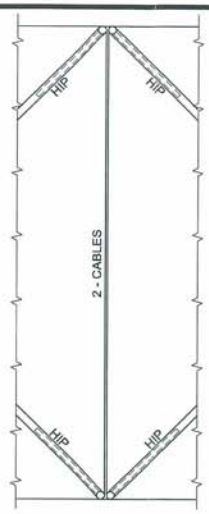
REVISIONS

NO.	DESCRIPTION	DATE

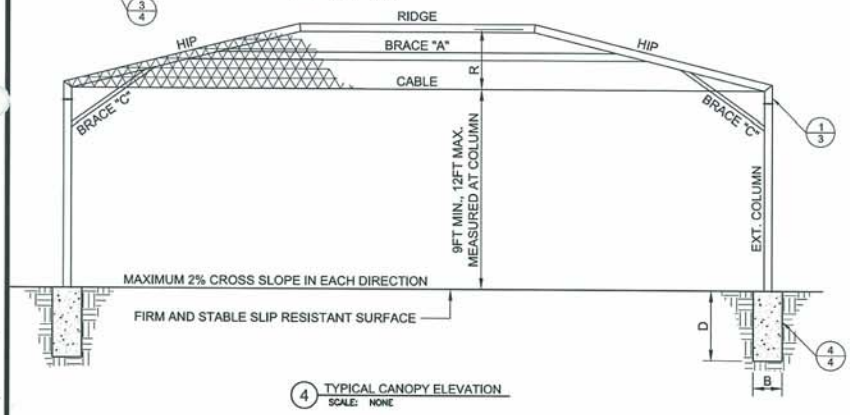
FILE NAME:	JOB NO.:
CustCan.dwg	
DRAWN BY:	DRAWING NO.
R. Eddington	3
DATE: 8/17/09	OF 4 SHEETS



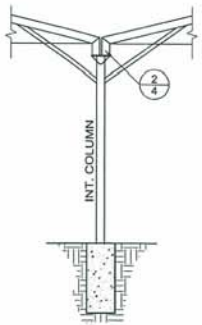
3 TYPICAL CANOPY PLAN VIEW
SCALE: NONE



1 INTERIOR COLUMN PLAN
SCALE: NONE



4 TYPICAL CANOPY ELEVATION
SCALE: NONE



2 INTERIOR COLUMN ELEV.
SCALE: NONE

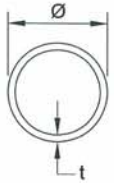
CANOPY OPTIONS																
L	W	R	Θ	Ext. Col.	D n/c	B	Int. Col.	D n/c	B	HIP	RIDGE	BRACE A	BRACE B	CABLE	BOLT A	BOLT B	BOLT C
20'	10'	1.77'	36.9°	3" Std.	3.6'/2.5'	1.5'	3" Std.	4.7'/3.2'	1.5'	2⅛"Øx.109	2⅛"Øx.109	2⅛"Øx.109	2"Øx.095	¼"Ø	½"Ø	⅜"Ø	½"Ø
20'	15'	2.13'	48.4°	3" Std.	3.6'/2.5'	1.5'	3" Std.	4.7'/3.2'	1.5'	2⅛"Øx.109	2⅛"Øx.109	2⅛"Øx.109	2"Øx.095	¼"Ø	½"Ø	⅜"Ø	½"Ø
20'	20'	2.55'	56.3°	3" Std.	4.1'/2.8'	1.5'	3" Std.	5.4'/3.6'	1.5'	3½"Øx.120	3½"Øx.120	2⅛"Øx.109	2⅛"Øx.109	¼"Ø	½"Ø	⅜"Ø	½"Ø
25'	25'	3.19'	56.3°	4" Std.	4.3'/2.9'	2'	4" Std.	5.6'/3.7'	2'	4½"Øx.120	4½"Øx.120	4½"Øx.120	3½"Øx.120	5⁄16"Ø	¾"Ø	(2)⅜"Ø	5⁄8"Ø
30'	20'	3.01'	45.0°	3½" Std.	4.2'/2.9'	2'	3½" Std.	5.6'/3.7'	2'	4"Øx.120	4"Øx.120	4"Øx.120	2⅞"Øx.120	¼"Ø	5⁄8"Ø	⅜"Ø	5⁄8"Ø
30'	25'	3.40'	51.3°	4" Std.	4.3'/2.9'	2'	4" Std.	5.6'/3.7'	2'	4½"Øx.120	4½"Øx.120	4½"Øx.120	3½"Øx.120	5⁄16"Ø	¾"Ø	(2)⅜"Ø	5⁄8"Ø
36'	18'	3.19'	36.9°	4" Std.	4.4'/3.1'	2'	4" Std.	5.8'/3.9'	2'	4½"Øx.120	4½"Øx.120	4½"Øx.120	2⅞"Øx.120	5⁄16"Ø	5⁄8"Ø	⅜"Ø	5⁄8"Ø
40'	20'	3.54'	36.9°	4" Std.	4.9'/3.4'	2'	4" Std.	5.9'/4'	2.5'	4½"Øx.180	4½"Øx.120	4½"Øx.180	2⅞"Øx.120	5⁄16"Ø	¾"Ø	(2)⅜"Ø	¾"Ø
30'	30'	3.83'	56.3°	5" Std.	5.4'/3.7'	2'	5" Std.	6.5'/4.3'	2.5'	5"Øx.180	5"Øx.120	4½"Øx.120	3½"Øx.120	5⁄16"Ø	¾"Ø	(2)⅜"Ø	¾"Ø
40'	30'	4.27'	48.4°	5" Std.	5.8'/3.9'	2'	5" Std.	7'/4.6'	2.5'	5"Øx.180	5"Øx.120	5"Øx.180	4"Øx.120	5⁄16"Ø	¾"Ø	(2)⅜"Ø	¾"Ø

GENERAL NOTES

1. MATERIAL SPECIFICATIONS:
   - A. CONCRETE: F'c = 2500 PSI AT 28 DAYS (SPECIAL INSPECTION REQUIRED)
   - B. REINFORCING STEEL: ASTM A615, GRADE 40.
   - C. PLATE STEEL SHALL CONFORM TO ASTM A36, Fy = 36ksi.
   - D. PIPE COLUMNS SHALL CONFORM TO ASTM A53 GRADE B, TYPE E OR S, Fy = 35ksi,
   - E. STRUCTURAL TUBES SHALL CONFORM TO ASTM A500 GRADE B, Fy = 42ksi. CORROSION PROTECTION SHALL BE TRIPLE COATED IN LINE ZINC ELECTRPLATING
   - F. MACHINE BOLTS SHALL BE ASTM A-307 OR SAE GRADE 2 MIN. (LOCK WASHERS REQ.)
   - G. CABLE STEEL: ASTM A1023, 7x19 CLASS IWRC, ¼"Ø Fu= 7K, 5⁄16"Ø Fu= 10.5K
   - H. WELDING ELECTRODES SHALL BE "GMAW / SEMI-AUTOMATIC, GRADE ER70S-6 PER AWS A-5.18"
2. WELDING QUALIFICATION REQUIREMENTS, WORKMANSHIP AND TECHNIQUE OF WELDING ARE TO CONFORM TO THE 2007 C.B.C. SECTION 2204A.1. ALL WELDS SHALL BE INSPECTED IN ACCORDANCE WITH APPLICABLE REQUIREMENTS OF THE 2007 C.B.C. CHAPTER 17A, SECTION 1704A.3.
3. CABLE CLIPS SHALL BE FORGED STEEL PER FEDERAL SPEC. FF-C-450 TYPE 1, CLASS 2 INSTALLED WITH THE U-BOLT ON THE CABLE DEAD END.
   BOLT TORQUE: FOR ¼"Ø CABLE CLIPS = 15 FT-LB, FOR 5⁄16"Ø CABLE CLIPS = 30 FT-LB.
4. BOLT HOLE DIAMETERS SHALL BE 1/16" LARGER THAN THE BOLT DIAMETER. ALL BOLTS SHALL BE INSTALLED WITH LOCK WASHERS.
5. CORROSION PROTECTION:
   STEEL TUBE ROOF MEMBERS SHALL BE TRIPLE COATED USING IN-LINE ZINC ELECTROPLATING PER ASTM E-6 AND THEN POWDER COATED WITH A TGIC POLYESTER TOP COAT. STEEL PIPE COLUMNS SHALL BE POWDER COATED WITH A TGIC POLYESTER PRIMER AND TOP COAT. ZINC SPELTER CONFORMS TO ASTM B-6 HIGH GRADE ZINC.
6. FABRIC MATERIAL SHALL BE: EXTRABLOCK FABRIC
   THE FABRIC SHALL BE MANUFACTURED BY ALNET FROM HIGH DENSITY POLYETHYLENE POLYMER. WEIGHT = 9.18 OZ/SQ. YD.
   BREAKING STRENGTH PER ASTM D 5034: WARP = 230 lbs, WEFT = 280 lbs
   MAXIMUM ELONGATION: WARP 95%, WEFT 76%
   TEAR STRENGTH PER ASTM D 2261: WARP = 28 lbs, WEFT = 28 lbs
   FIRE RETARDANT RATING PER CAFM - TITLE 19, (REGISTRATION # F-66701)
   THE FABRIC SHALL BE CAPABLE OF MAINTAINING 80% OF ITS TENSILE AND TEARING STRENGTH AFTER EXPOSURE TO A 313 NM LIGHT SOURCE APPLIED FOR 500 HOURS AND WHILE MOISTENED FOR 1 HOUR EVERY 12 HOURS PER ASTM G53.
   THE FABRIC SHALL REQUIRE ANNUAL INSPECTION AND MAINTENANCE. SAMPLES OF THE SAME MATERIAL SHALL BE MAINTAINED AT THE PROJECT SITE AND TESTED TO SHOW COMPLIANCE WITH ASTM D 5034 AND D 2261. THE FABRIC SHALL MAINTAIN AT LEAST 50% OF ITS ORIGINAL BREAKING STRENGTH AFTER 5 YEARS OF EXPOSURE TO SUNLIGHT.

DESIGN LOADS:

LIVE LOAD = 5 psf (No Snow Load)
ALLOWABLE SOIL PRESSURE = 1500psf (for D+L load), LATERAL = 200psf
BASIC WIND SPEED = 85 mph, EXPOSURE "C", Kzt = 1, I = 1.15, OPEN STRUCTURE
WIND DESIGN METHOD 2: Main Frames - Fig 6-18B & 6-18D, Comp. and Cladding Fig 6-19B
SEISMIC DESIGN: Equivalent Lateral Force Procedure, Seismic Design Category = E, Ordinary Moment Frame, I=1.25, Site Class D, Ss=2, Sds=1.33, Cs=.475, R=3.5, Redundancy Factor =1.3, V=.618W



STRUCTURAL TUBING PROPERTIES							
SIZE	Ø	t des.	A	I	S	GAGE REFERENCE
1¾"Øx.109	1.75"	.101"	.523in2	.179in4	.204in3	12GA
2"Øx.095	2"	.088"	.529in2	.242in4	.242in3	13GA
2½"Øx.120	2.25"	.112"	.752in2	.431in4	.383in3	11GA
2⅛"Øx.109	2.875"	.101"	.880in2	.848in4	.590in3	12GA
2⅞"Øx.120	2.875"	.112"	.972in2	.929in4	.646in3	11GA
3"Øx.120	3"	.112"	1.016in2	1.061in4	.707in3	11GA
3½"Øx.120	3.5"	.112"	1.192in2	1.712in4	.978in3	11GA
4"Øx.120	4"	.112"	1.368in2	2.587in4	1.294in3	11GA
4½"Øx.120	4.5"	.112"	1.544in2	3.718in4	1.653in3	11GA
4½"Øx.180	4.5"	.167"	2.273in2	5.343in4	2.375in3	7GA
5"Øx.120	5"	.112"	1.720in2	5.139in4	2.056in3	11GA
5"Øx.180	5"	.167"	2.536in2	7.412in4	2.965in3	7GA

TABLE NOTES:

n = NONCONSTRAINED CONDITION
c = CONSTRAINED CONDITION (SEE DETAILS 4A AND 5 ON SHEET 4)
DIMENSIONS "L" OR "W" MAY BE REPEATED IN ONE DIRECTION ONLY.

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DRAWING TITLE:
CANOPY PLANS TABLES & NOTES

REVISIONS

NO.	DESCRIPTION	DATE

FILE NAME: CustCan.dwg
JOB NO.:
DRAWN BY: R. Eddington
DRAWING NO. 2
DATE: 8/17/09
OF 4 SHEETS

NOTE THAT THIS GUIDE DOES NOT REPLACE THE SITE SPECIFIC TESTING AND INSPECTION FORM (DSA-103) THAT MUST BE SUBMITTED AS PART OF THE SITE SPECIFIC APPROVAL PROCESS.

TESTING AND INSPECTION GUIDELINES:

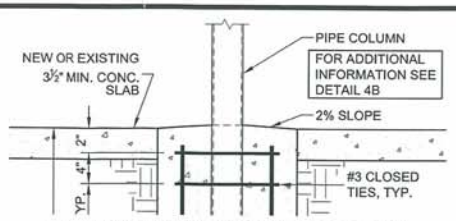
TEST OR SPECIAL INSPECTION	TYPE	PERFORMED BY
CONCRETE:		
A. VERIFY USE OF REQUIRED MIX DESIGN	PERIODIC	BATCH PLANT SPECIAL INSPECTOR AND PROJECT INSPECTOR
B. INSPECT BATCHING OF CONCRETE	CONTINUOUS	SPECIAL INSPECTOR
C. PERFORM SLUMP TEST	TEST	PROJECT INSPECTOR
D. DETERMINE TEMPERATURE OF CONCRETE	TEST	PROJECT INSPECTOR
E. PERFORM AIR CONTENT TEST (WHERE REQ.)	TEST	PROJECT INSPECTOR
F. TEST CONCRETE (COMPRESSION TEST)	TEST	LAB
G. REINFORCING STEEL PLACEMENT	CONTINUOUS	PROJECT INSPECTOR
STEEL:		
A. VERIFY CORRECT MATERIAL PROPERTIES WITH MILL CERTIFICATES	PERIODIC	OFF-SITE SPECIAL INSPECTOR
B. VERIFY MATERIAL SIZES, TYPES AND GRADES	PERIODIC	OFF-SITE SPECIAL INSPECTOR
C. TEST UNIDENTIFIED MATERIALS	TEST	LAB
D. EXAMINE SEAM WELDS OF TUBES AND PIPES	PERIODIC	OFF-SITE SPECIAL INSPECTOR
E. VERIFY ASSEMBLY IS PER PC DRAWINGS	PERIODIC	PROJECT INSPECTOR
F. VERIFY WELD FILLER MATERIAL IDENTIFICATION AND CERTIFICATION	PERIODIC	OFF-SITE SPECIAL INSPECTOR
G. VERIFY WPS, WELDER QUALIFICATIONS AND EQUIP.	PERIODIC	OFF-SITE SPECIAL INSPECTOR
H. INSPECT SHOP GROOVE WELDING	CONTINUOUS	OFF-SITE SPECIAL INSPECTOR
I. INSPECT SHOP FILLET WELDING	PERIODIC	OFF-SITE SPECIAL INSPECTOR
J. VERIFY FABRICATION AND QUALITY CONTROL	PERIODIC	OFF-SITE SPECIAL INSPECTOR
FABRIC:		
A. VERIFY CERTIFIED MILL TEST REPORTS	PERIODIC	OFF-SITE SPECIAL INSPECTOR

ADDITIONAL NOTES PERTAINING TO TESTING AND INSPECTION:

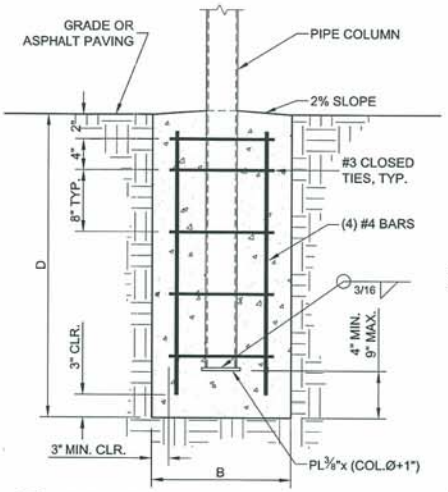
A. THE PROJECT INSPECTOR AND TESTING AGENCY SHALL BE SELECTED BY THE SCHOOL DISTRICT AND APPROVED BY DSA AND THE ARCHITECT OF RECORD.

B. THE COST OF THE PROJECT INSPECTOR AND THE TESTING AGENCY SHALL BE BORN BY THE SCHOOL DISTRICT.

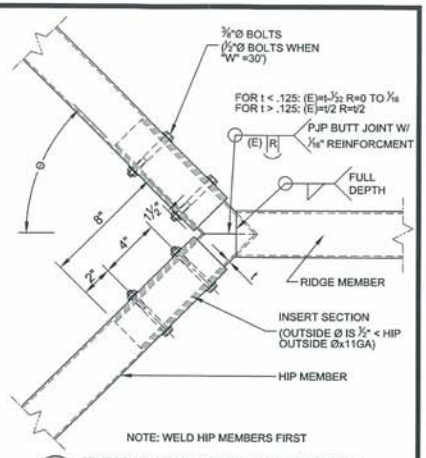
C. COPIES OF VERIFIED REPORTS SHALL BE SENT TO THE DSA, THE ARCHITECT, THE SCHOOL DISTRICT, THE CONTRACTOR AND THE PROJECT INSPECTOR.



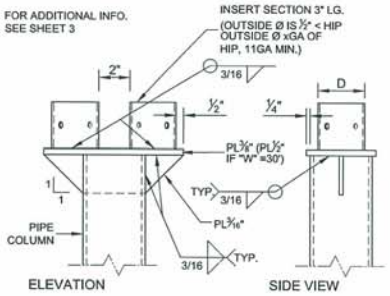
4A TYPICAL CONSTRAINED FOOTING DETAIL
SCALE: 3/4" = 1'-0"



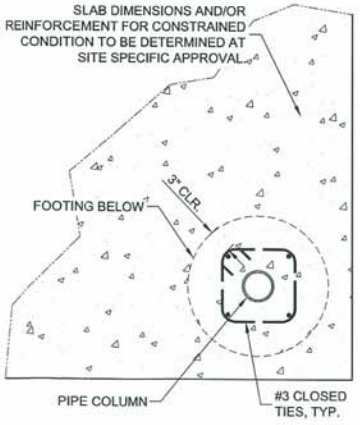
4B TYPICAL NON-CONSTRAINED FOOTING DETAIL
SCALE: 3/4" = 1'-0"



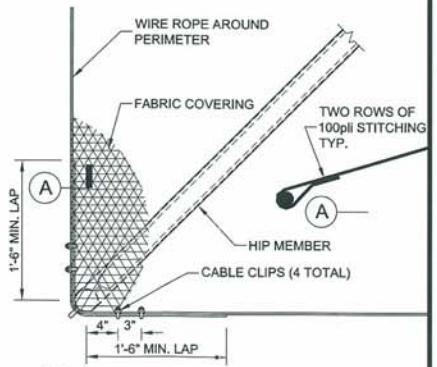
1 TYPICAL HIP - RIDGE CONNECTION
SCALE: 1-1/2" = 1'-0"



2 TYPICAL INT. COL. - HIP CONNECTION
SCALE: 1-1/2" = 1'-0"



5 TYPICAL PLAN VIEW OF FOOTING DETAIL
SCALE: 3/4" = 1'-0"



3 TYPICAL CABLE CONNECTION
SCALE: 3/4" = 1'-0"

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DRAWING TITLE:
TYP. CANOPY DET. AND T&I GUIDELINE

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NO.	DESCRIPTION	DATE

FILE NAME: CustCan.dwg

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DRAWN BY: R. Eddington

DRAWING NO. 4 OF 4 SHEETS

DATE: 8/17/09