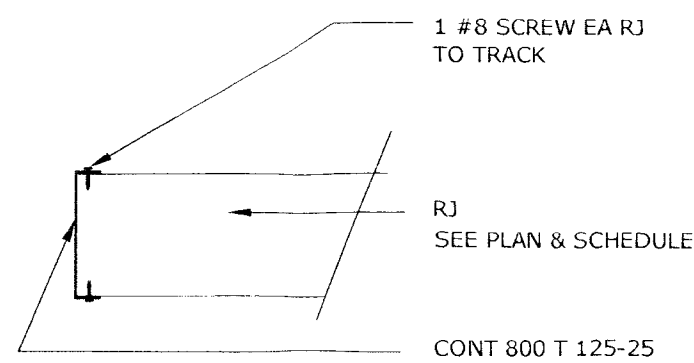
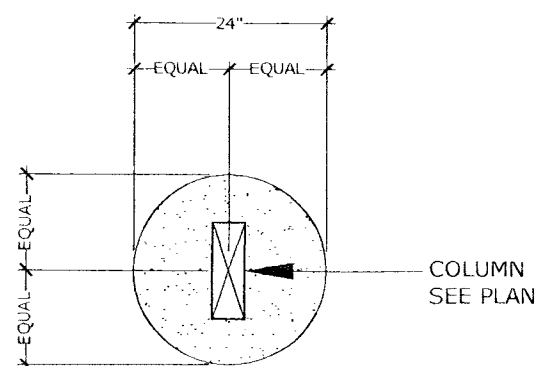




DETAIL " 6"

SCALE: 1" = 1'-0"

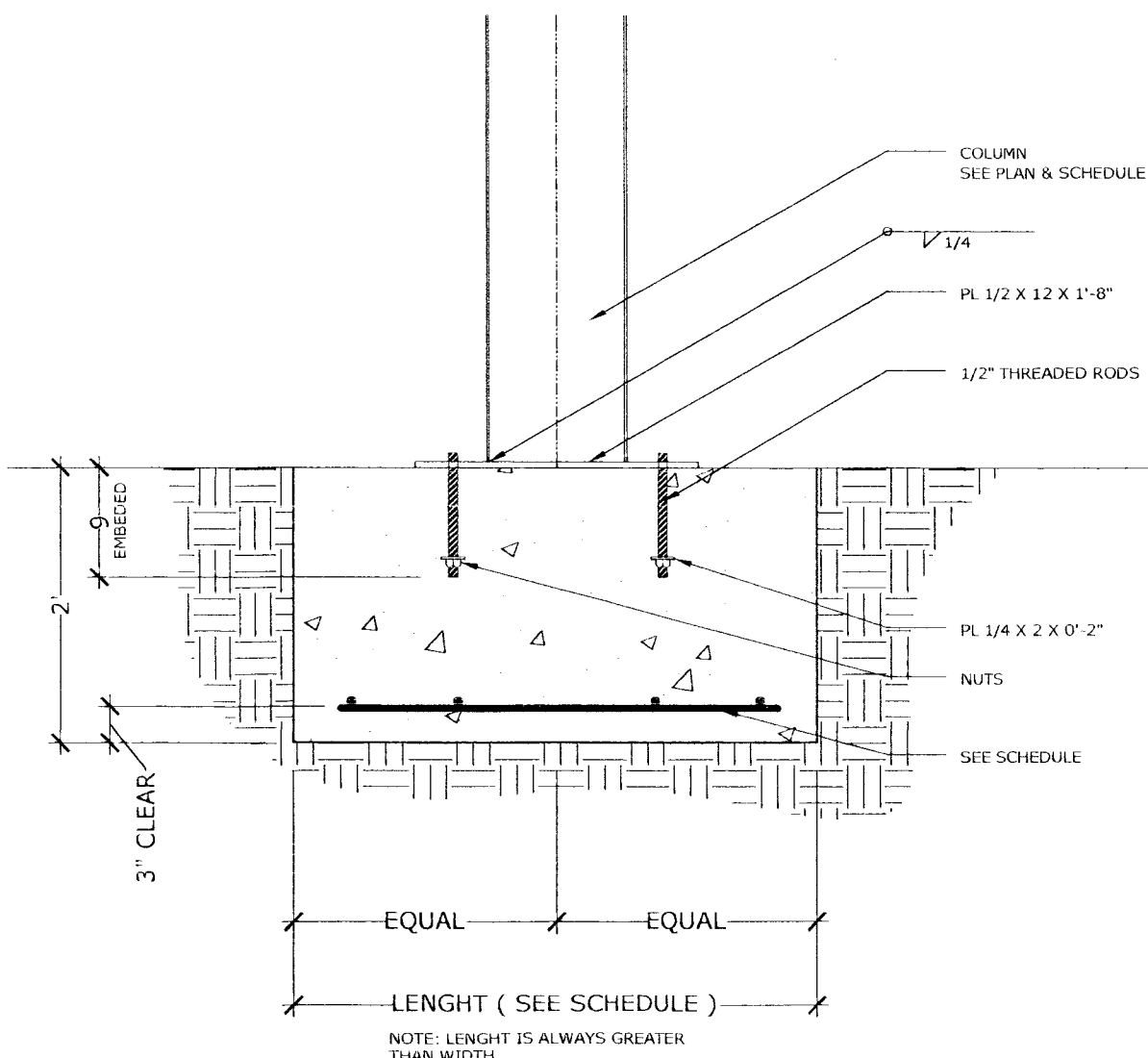


NOT USED

DETAIL " 1"

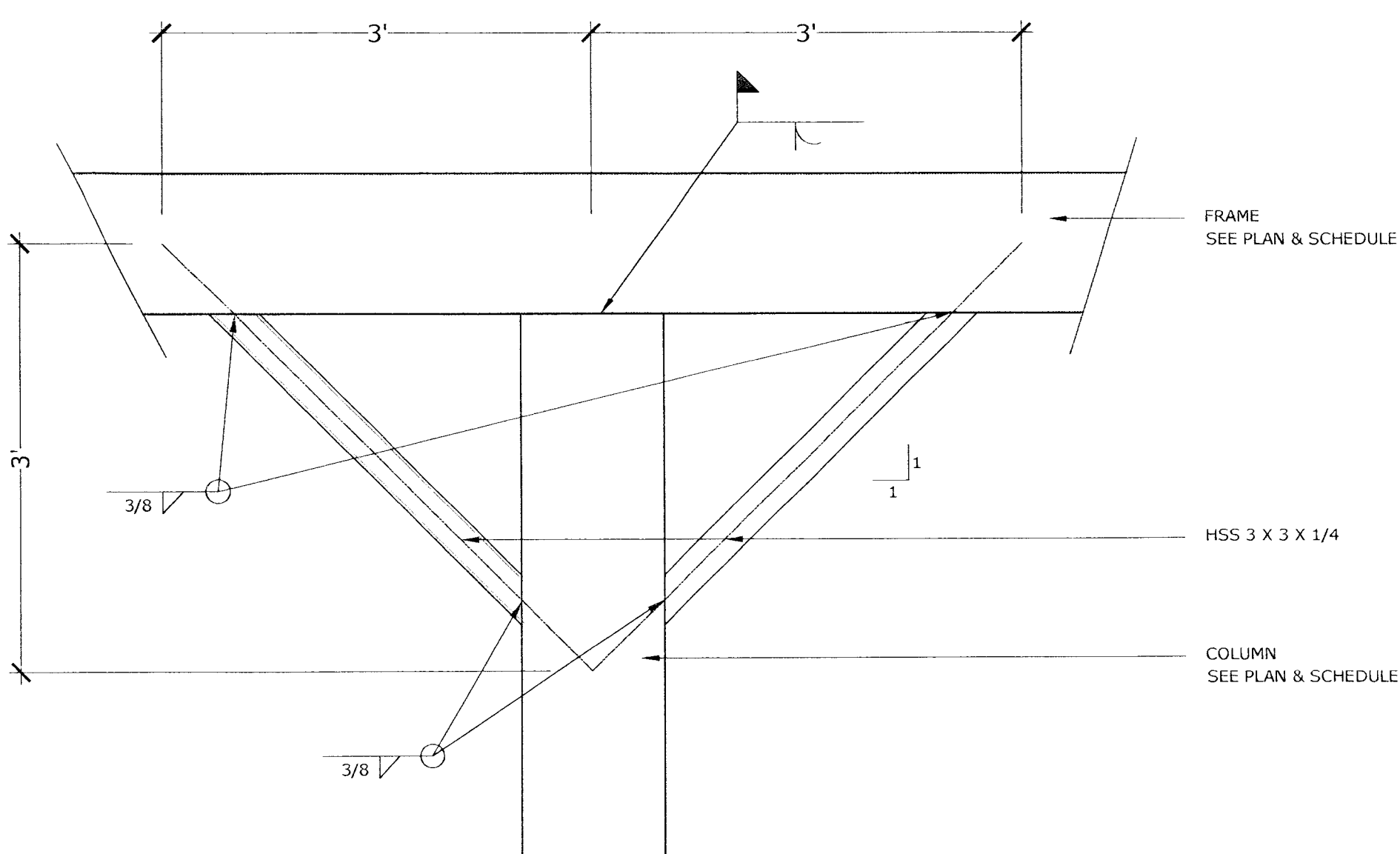
DETAIL " 4"

SCALE: 1/2" = 1'-0"



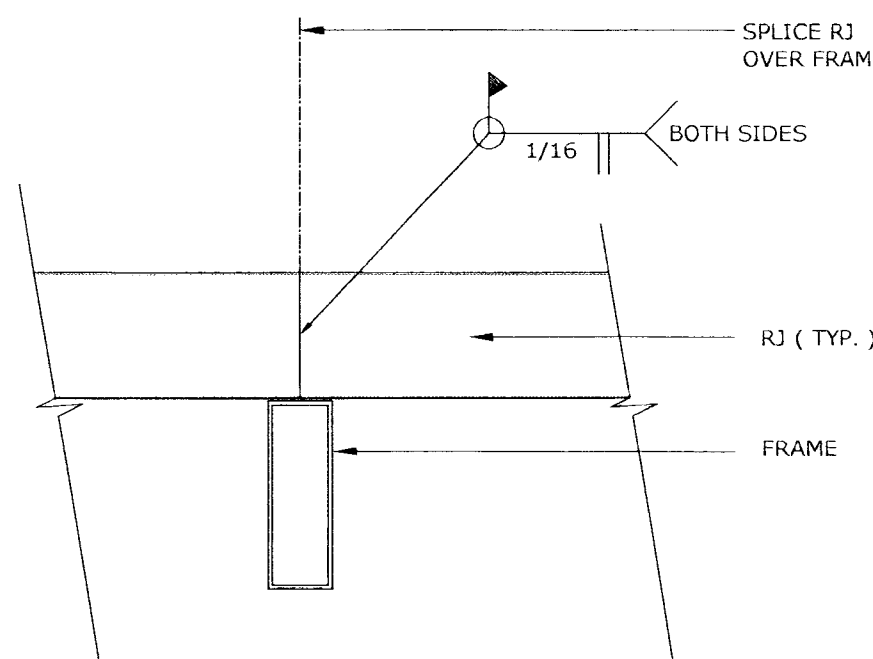
DETAIL " FT1A"

SCALE: 3/4" = 1'-0"



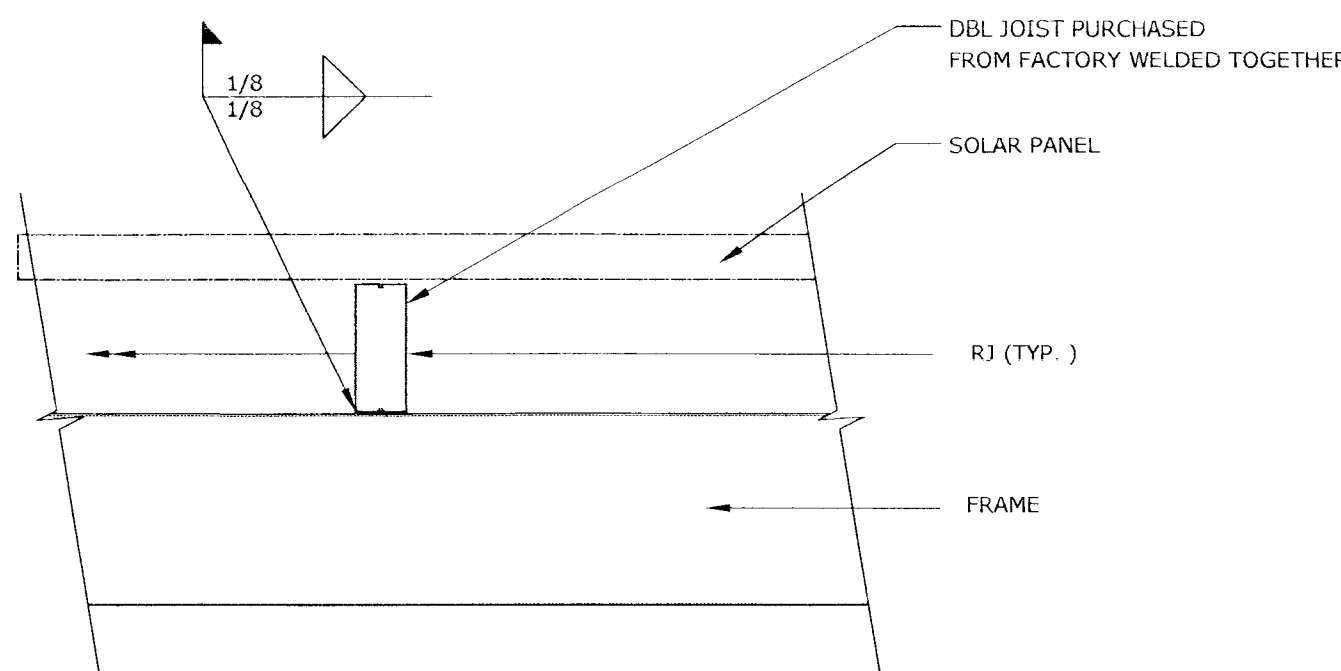
DETAIL " 5"

SCALE: 1" = 1'-0"



DETAIL " 2"

SCALE: 1" = 1'-0"



DETAIL " 3"

SCALE: 1" = 1'-0"

SPECIFICATIONS

CODE	2006 INTERNATIONAL BUILDING CODE								
SOILS	PER SOILS REPORT BY: JA CESAR NUMBER 11-1045A DATED: April 28, 2011 ALLOWABLE SOIL BEARING IS 2000 PSF NEGLIGIBLE SULFATES PASSIVE PRESSURE = 360 PSF/FT								
CONCRETE	$f_c=4500$ PSI (in) 28 DAY ULTIMATE COMPRESSIVE STRENGTH, TYPE V CEMENT, 4" OR LESS SLUMP ALLOWED, W/C = .45 WITHOUT SPECIAL INSPECTION FOR SULFATE RESISTANCE $f_g = 2500$ psi FOR CALCULATIONS								
REINFORCING BARS	ASTM A615 GRADE 40 FOR #4 OR SMALLER								
CONNECTORS	BY SIMPSON STRONG-TIE. SUBSTITUTIONS FOR SIMPSON STRONG TIE CO., INC.'S PRODUCTS MUST BE EQUAL IN DESIGN, QUALITY, SPECIFICATIONS AND PREAPPROVED BY I.C.B.O. BEFORE CONSTRUCTION								
STRUCTURAL STEEL	BOLTS ASTM A307 TS STRUCTURAL STEEL TUBING ASTM A500 $F_y = 50$ ksi STRUCTURAL STEEL TUBING ASTM A500 GRADE B $F_y = 46$ ksi STEEL PLATES & SHAPES ASTM A36 $F_y = 36$ ksi ELECTRODES AWS D1.1-04 E70XX FASTENERS BY HILTI OR EQUAL ALL STRUCTURAL STEEL FABRICATION SHALL BE DONE BY AN APPROVED FABRICATOR OR HAVE SPECIAL INSPECTION								
ANCHOR BOLTS	EMBEDMENT IN CONCRETE--7" MIN FOR SILL PLATES ALL OTHERS TITEN HD ANCHOR SCREWS 1/2" ϕ 4" MINIMUM U.N.O. FOR MISSED ANCHOR BOLTS 5/8" ϕ 4 1/2" MINIMUM U.N.O. 3/4" ϕ 5" MINIMUM U.N.O.								
SCREWS	ALL SCREWING SHALL BE MADE WITH SCREWS PER NDS -06 SCREWS. AT ALL LOCATION, STUDS, TRACKS, SHEAR WALLS, TO ROOF OR FLOOR SHEATHING								
SCREW SPECIFICATIONS	<table><tr><td>#6</td><td>0.138 in Dia</td></tr><tr><td>#8</td><td>0.164 in Dia</td></tr><tr><td>#10</td><td>0.19 in Dia</td></tr><tr><td>#12</td><td>0.216 in Dia</td></tr></table>	#6	0.138 in Dia	#8	0.164 in Dia	#10	0.19 in Dia	#12	0.216 in Dia
#6	0.138 in Dia								
#8	0.164 in Dia								
#10	0.19 in Dia								
#12	0.216 in Dia								

FIELD CONDITIONS NOTIFY ENGINEER IF FIELD CONDITIONS ARE NOT AS ASSUMED IN
THE CALCULATIONS AND/OR DRAWINGS

THIRD PARTY SPECIAL INSPECTION

YES SPECIAL INSPECTION REQUIRED	
WOOD	
NO NAILING/BOLTING/ANCHORING OF DRAG STRUTS, BRACES AND HOLD-DOWNS	
CONCRETE	TABLE 1704.4
NO CONCRETE INSPECTION AS STRENGTH REQ'D FOR SULFATE ATTACK	
NO BOLTS IN CONCRETE AT FULL STRENGTH	
NO REINFORCING STEEL IN CONCRETE OVER 2500 PSI (OTHER THAN SLAB ON GRADE)	
STEEL	TABLE 1704.3
YES FIELD WELDING OF DECKS, JOISTS AND PLATES	
NO HIGH STRENGTH BOLTING	
NO SITE FABRICATION OF BEAMS AND/OR HEADERS WITH LIGHT GAGE STEEL SECTIONS	
NO GROUTING UNDER BEAM AND COLUMN BEARING PLATES	
MASONRY	
NO CMU AT FULL STRENGTH	LEVEL 1 TABLE 1704.5.1
Inspector is to provide random inspections taking samples to verify grout mortar and block strengths specified. The inspector is to verify all bar dimensional placement and spacing in the CMU before grouting is placed.	
OTHER	
NO BOLTS OR REBAR WITH EPOXY ANCHORAGE	
Epoxy anchorage to be with threaded rods embedded into the existing concrete/masonry the depths shown in the details. The drill bit sized for the system used. The hole size - depth and diameter are to be verified by the special inspector. The holes are to be cleaned out and verified by the inspector. And the inspector is to observe the application of the epoxy in the manufactures specified methods and procedures.	
NO ANCHORS IN EXISTING CONCRETE	
Post installed anchors shall only be used where specified in the construction documents. The Contractor shall provide documents for any proposed substitutions to show equal in quality and preapproved by ICC before construction by Engineer of Record Anchors are to be installed per manufacturers recommendations and specified by the Engineer of Record for size, depth of hole and cleanliness.	

Means and methods of construction are the sole responsibility of the contractor.
Drawings and specifications remain the property of the design professional. Copies of the drawings
and specifications retained by the client may be utilized only for his use and for occupying the project
for which they were prepared, and not for the construction of any other project
(NRS 623.780)

ROOF BEAM SCHEDULE

Frame 30 HSS 12 x 4 x 3/8

COLUMN SCHEDULE

C2 HSS 12 x 4 x .1875

ROOF DIAPHRAGM/SHEATHING

SOLAR PANEL AS DIAPHRAGM - VIERENDEEL TRUSS

EXP 05/11

FOOTING SCHEDULE

Per soils report by JA Cesare, Project No. 11-1045A, dated April 28, 2011
 $q_{max} = 2000$ psf, 1/3 available for wind and/or seismic loads. Negligible Sulfates
Minimum width of footings is 12 inches and minimum depth is 12 inches below adjacent
compacted subgrade. 360 psf/ft Passive Pressure. Friction Coefficient = 0.40

USE FOOTING F1 AS 24" DIAMETER BY 6'-0" DEEP
USE FOOTING F1A AS 2'-9" by 3'-9" by 24" DEEP WITH 3-#4 EACH WAY

Building & Survey Dept.
City of Las Vegas, Nevada
OR LEO OF STRUCTURAL REVIEW
PLANS AND CALCULATIONS ARE
DEEMED ACCEPTABLE IF SEALED
AND SIGNED BY A NADRA LICENSED
CIVIL OR STRUCTURAL ENGINEER
Make no change without approval
Not a permit to violate any ordinance.

REVISIONS

ENGINEER
KUBOTA & ASSOCIATES ENGINEERS, LTD.
5125 WEST OQUEENDO #4
LAS VEGAS NV 89118
TEL: 702.367.2800

CONTRACTOR
MDI STEEL
328 EMERALD VISTA WAY
LAS VEGAS NV 89144
TEL # 702.450.2221
LIC # 0068235

PROJECT: CITY OF LAS VEGAS WSC VEHICLE SERVICES BUILDING
ITEM # 1 - 33'-6" WIDE X 66'-0" LONG WITH 4 POST

2950 ROHENEUS DR.
LAS VEGAS NV 89128

PART OF APR # 136-15-201-002

SHEET TITLE: LOADS, SPECIFICATIONS & DETAILS

ENGINEER STAMP

MAY 23 2011

DATE: 05-10-11

SCALE: NTS

C22-VS7-CSP

SHEET

S-2