

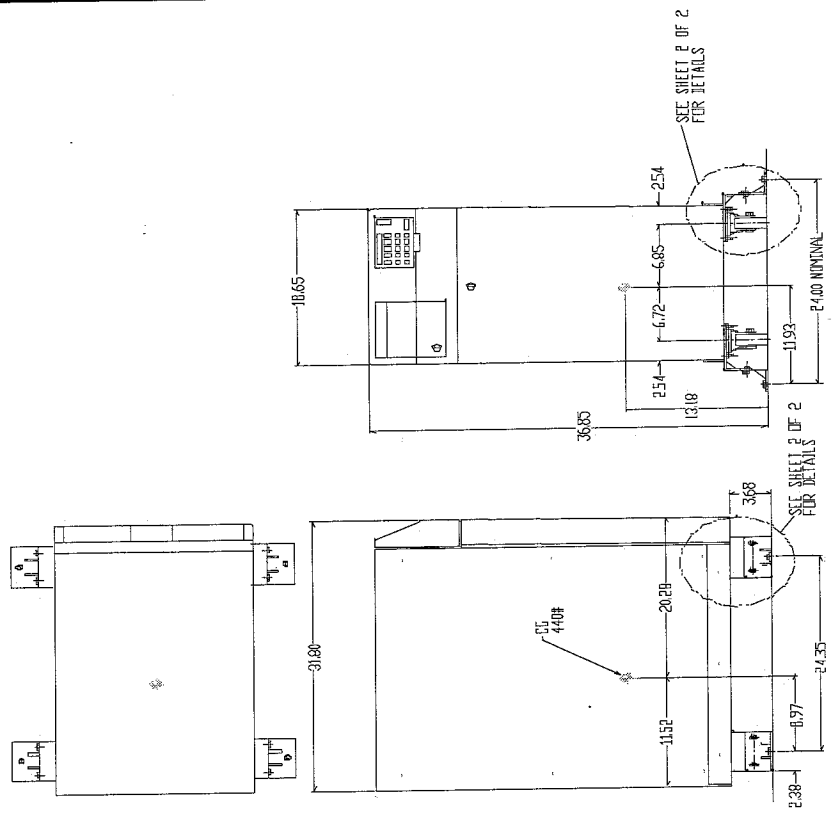
PROJ. NO. 2678 G01

REVISIONS		REV. NO.	CHG. NO.	DESCRIPTION	DATE	BY	CHKR	ENGR
0	FEW-650			REVISED NOTES	2-7-00	GRD	RON	DJP

- NOTES: UNLESS OTHERWISE SPECIFIED
- THE ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE SUPPORTING STRUCTURE INCLUDING ADDRESS FLOOR PANEL TO RESIST THE GRAVITY AND LATERAL LOAD FROM THE EQUIPMENT.
 - WHEN INSTALLING BOLLERED-IN ANCHORS IN EXISTING NON-PRESTRESSED OR REFERENCED CONCRETE, USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE EXISTING REINFORCING BARS. WHEN INSTALLING THEM INTO EXISTING PRESTRESSED CONCRETE (PWC - IN PART-TENSIONED), LOCATE THE PRESTRESSING TENDONS BY USING A NON-DESTRUCTIVE METHOD PRIOR TO INSTALLATION. EXERCISE EXTREME CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE TENDONS DURING INSTALLATION. MAINTAIN A MINIMUM CLEARANCE OF ONE INCH BETWEEN THE REINFORCEMENT AND THE BOLLERED-IN ANCHOR.
 - ANCHORAGE DESIGNED PER CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 2, 2908 EDITION USING TABLE 16F-1, Fp=7.1 to 4p, WHERE 7-4 1-15 IS 0.0181 CMC-33.
 - TEST STANDARD: BELLCORE TECHNICAL REFERENCE TR-09-00063 ISSUE 3, MARCH 1998, SECTION 4.5.
 - ASSUMPTIONS: THE CONCRETE THAT THE "MUT" IS TO BE SET IN SHALL BE 3000 PSI (301 PCSI MINIMUM). STRUCTURAL ANGLE OR PLATE SHALL BE ASTM A-36 MINIMUM.
 - AGENCY CRITICAL PARTS, NO SUBSTITUTIONS OF MATERIALS ALLOWED.
 - TEST ANCHORS AS FOLLOWS:

TEST VALUES				
HORIZONTAL OR TORSIONAL CONCRETE				
ANCHOR DIA. (IN)	VEHICLE LOAD (LBS)	SLEEVE LOAD (LBS)	SLEEVE TORQUE (FT-LBS)	SP-CELL LOAD TORQUE (LBS)
1/4	300	10	4	100
3/8	400	15	6	150
1/2	500	20	8	200
5/8	600	25	10	250
3/4	700	30	12	300
1	800	35	14	350
1 1/8	900	40	16	400
1 1/4	1000	45	18	450
1 3/8	1100	50	20	500
1 1/2	1200	55	22	550
1 5/8	1300	60	24	600
1 3/4	1400	65	26	650
1 7/8	1500	70	28	700
2	1600	75	30	750
2 1/8	1700	80	32	800
2 1/4	1800	85	34	850
2 3/8	1900	90	36	900
2 1/2	2000	95	38	950
2 5/8	2100	100	40	1000
2 3/4	2200	105	42	1050
2 7/8	2300	110	44	1100
3	2400	115	46	1150
3 1/8	2500	120	48	1200
3 1/4	2600	125	50	1250
3 3/8	2700	130	52	1300
3 1/2	2800	135	54	1350
3 5/8	2900	140	56	1400
3 3/4	3000	145	58	1450
3 7/8	3100	150	60	1500
4	3200	155	62	1550

- SHELL TYPE ANCHORS SHOULD BE TESTED AS FOLLOWS:
 a. VISUALLY INSPECT EACH FOR FLOOR FINISH AS EVIDENCED BY THE LOCATION OF THE EXPANSION JOINT OF THE ANCHOR FOR THE UNDESIRABLE OF A FULLY EXPOSED ANCHOR. PROCEED WITH INSTALLATION OF THE ANCHORS ONLY IN THE ABSENCE OF SUCH PROBLEMS.
 b. SUCH PROBLEMS, SUCH AS INTERFERENCE ON THE JOB SITE FOLLOWING THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND PROOF LOAD SHALL AS INDICATED IN THE TABLE ABOVE, BUT NOT LESS THAN THREE ANCHORS PER DAY FOR EACH DIFFERENT PERSON OR CREW INSTALLING ANCHORS, OR, TEST 50% OF THE INSTALLED ANCHORS PER PERSONS.
- TEST EQUIPMENT IS TO BE CALIBRATED BY AN APPROVED TESTING LABORATORY IN ACCORDANCE WITH STANDARD RECOMMENDED PROCEDURES.
- THE FOLLOWING CRITERIA APPLY FOR THE ACCEPTANCE OF INSTALLED ANCHORS:
 a. HYDRAULIC RAM METHOD: THE ANCHOR SHOULD HAVE NO OBSERVABLE MOVEMENT AT THE APPLICABLE TEST LOAD FOR VEEBEE AND SLEEVE TYPE ANCHORS, A PRACTICAL WAY TO DETERMINE OBSERVABLE MOVEMENT IS THAT THE WASHER UNDER THE MUT BECOMES LOOSE.
 b. TORQUE WRENCH METHOD: THE APPLICABLE TEST TORQUE MUST BE REACHED WITHIN THE FOLLOWING LIMITS:
 - VEEBEE OR SLEEVE TYPE: ONE-HALF (0.5) TURN OF THE MUT.
 - ONE-QUARTER (0.25) TURN OF THE MUT FOR THE 2/8 IN SLEEVE ANCHOR ONLY.
- TESTING SHOULD OCCUR 24 HOURS MINIMUM AFTER INSTALLATION OF THE SUBJECT ANCHORS.
- IF ANY ANCHOR FAILS TESTING, TEST ALL ANCHORS OF THE SAME CATEGORY NOT PREVIOUSLY TESTED UNTIL TWENTY (20) CONSECUTIVE PASS, THEN RESUME THE INITIAL TESTING FREQUENCY.

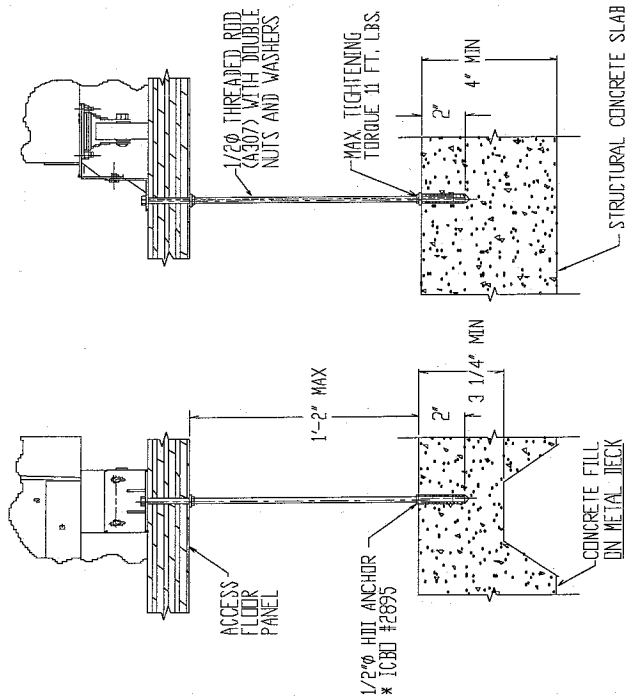


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APPROVED DRAWN BY: RJW CHECKED BY: JSK DATE: 4-15-97	INVENTION TOLERANCE UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES DECIMALS ARE TO 2 PLACES ANGLES TO 1 P.	DIMENSIONS TOLERANCE UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES DECIMALS ARE TO 2 PLACES ANGLES TO 1 P.	SCALE: NONE SHEET 1 OF 2

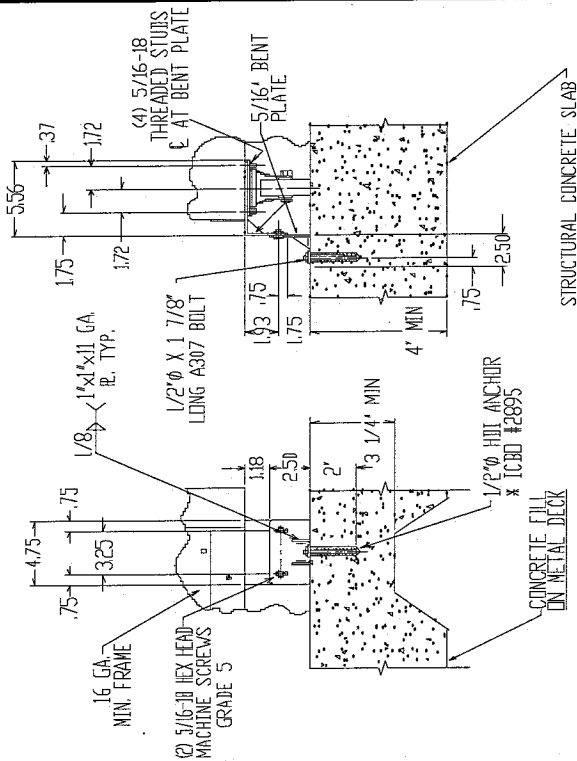
DWG NO. 2678_G01		SHEET 2		REV. D	
REV. NO.	DESCRIPTION	DATE	BY	CHKR	ENGR
0	NO CHANGES TO THIS SHEET, SEE SHEET 1.	2-7-00	GD	RM	CP

REVISIONS

NOTE:
FOR INFORMATION NOT SHOWN
SEE DETAILS ON ANCHORAGE TO
STRUCTURAL SLAB



ANCHORAGE TO ACCESS FLOOR



ANCHORAGE TO STRUCTURAL SLAB

CAD SYSTEM AUTOCAD	APPROVED	DATE	SHEET 2 OF 2
	DESIGNED BY: R.W. L...	4-15-91	
DATEBASE 0000/2000-25959	DIMENSION TOLERANCE	SCALE: NONE	
PROPRIETARY	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES	FE 10KVA SEISMIC ANCHORAGE, TO FLOOR & SLAB	
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