

LEARNING RESOURCES CENTER



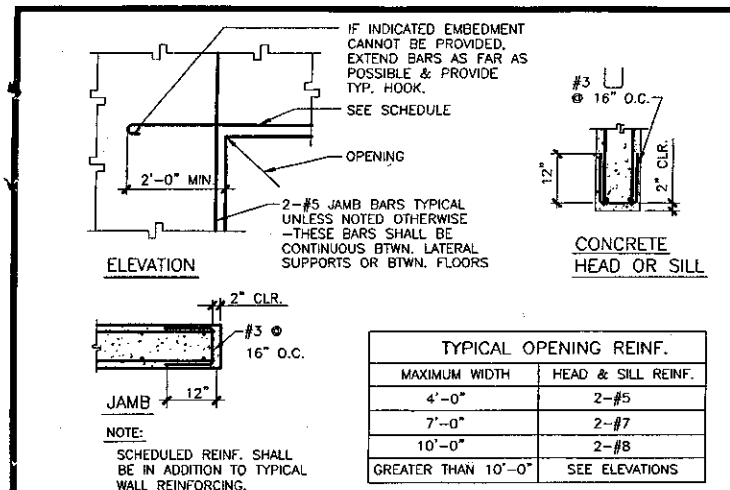
VENTURA COLLEGE

4667 Telegraph Road, VENTURA, California 93003

PHASE 1
PART 2

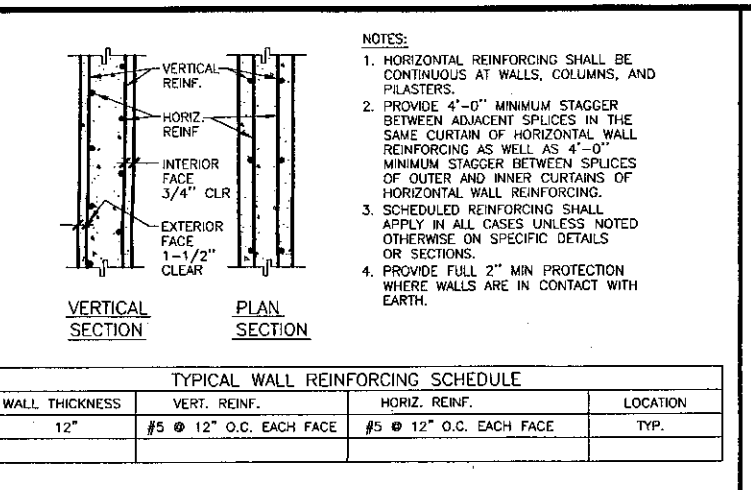
KRUGER BENSON ZIEMER ARCHITECTS, Inc.
30 West Arrellaga Street Santa Barbara, CA 93101
(805)963-1726 (805)963-295 fax kbz@kbzarch.com

September 24, 2001
KBZ Job No. 93-18



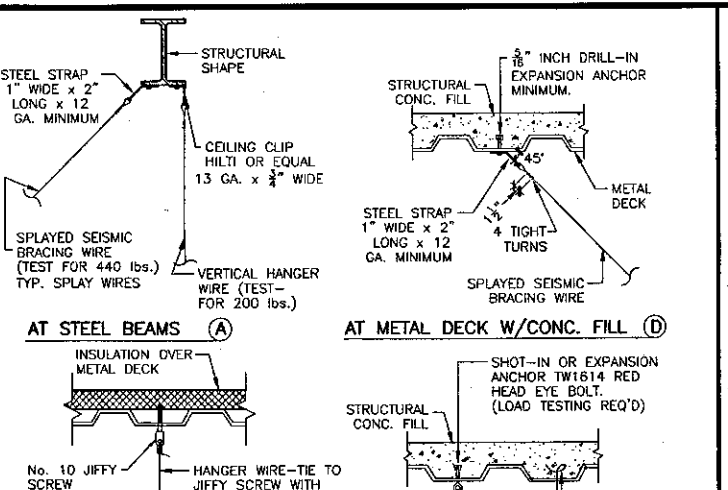
CONCRETE WALL OPENING

1



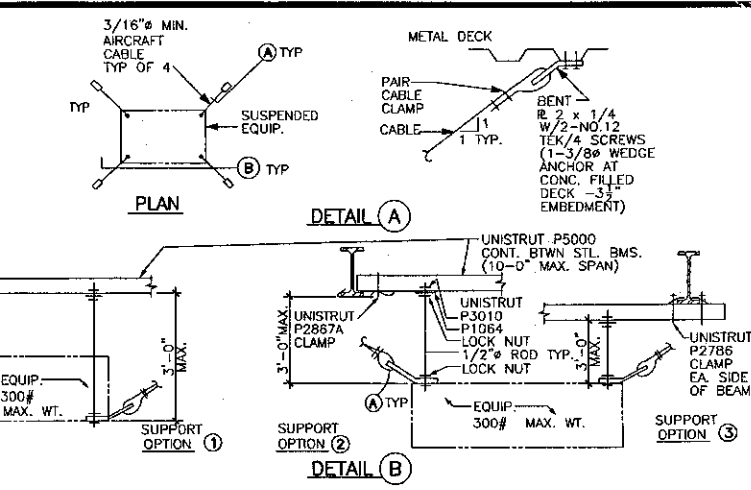
CONCRETE WALL REINFORCING

2



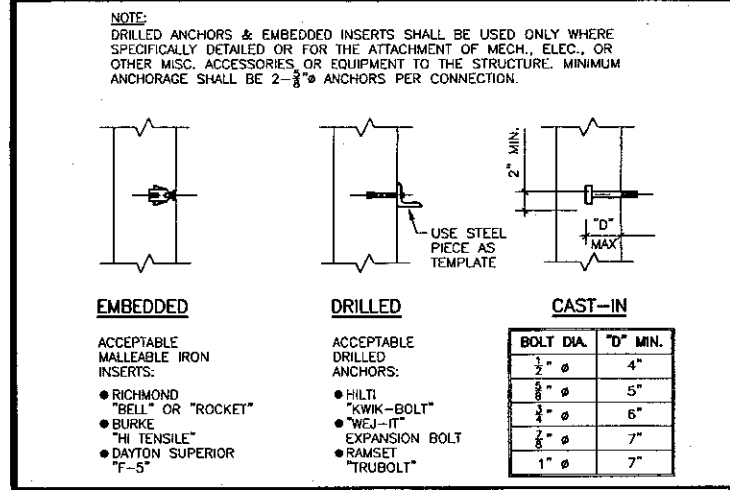
CEILING WIRE DETAILS

8



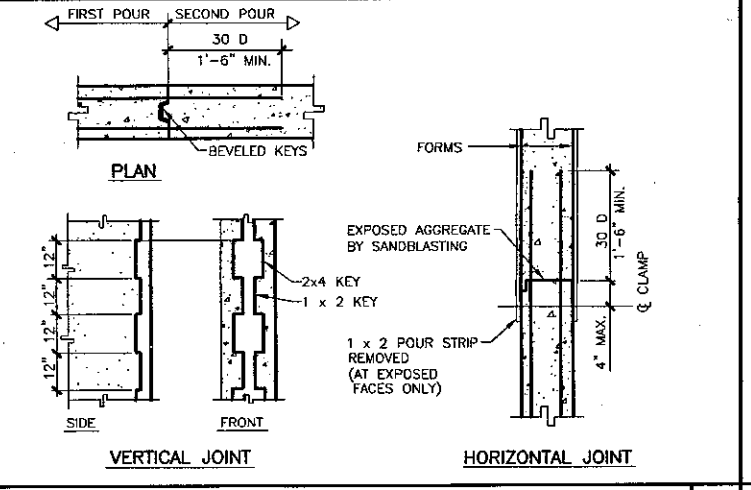
EQUIPMENT HANGER

4



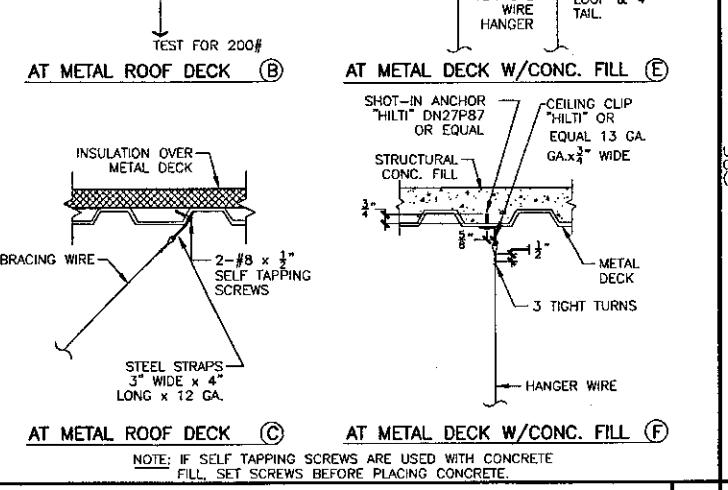
ANCHOR BOLTS AND INSERTS

6



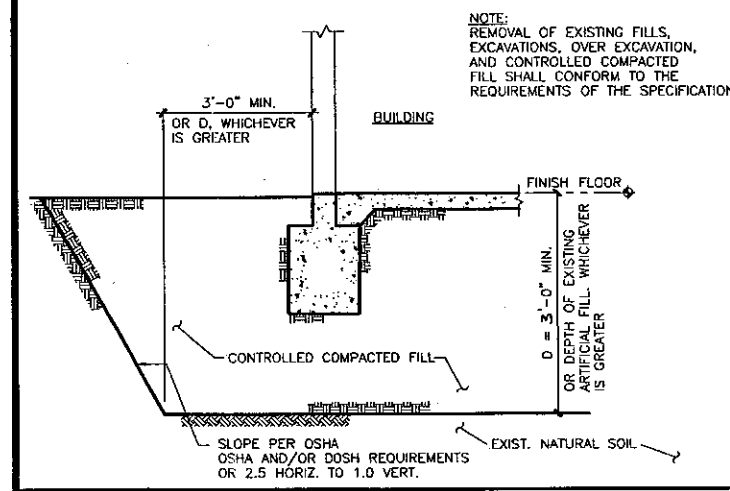
CONCRETE WALL CONSTRUCTION JOINT

7



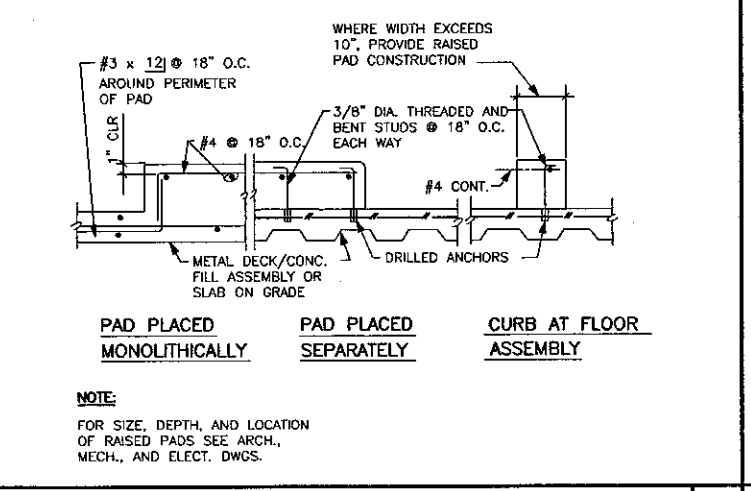
PIPE HANGER DETAIL (EXCLUDING FIRE SPRINKLER PIPES)

9



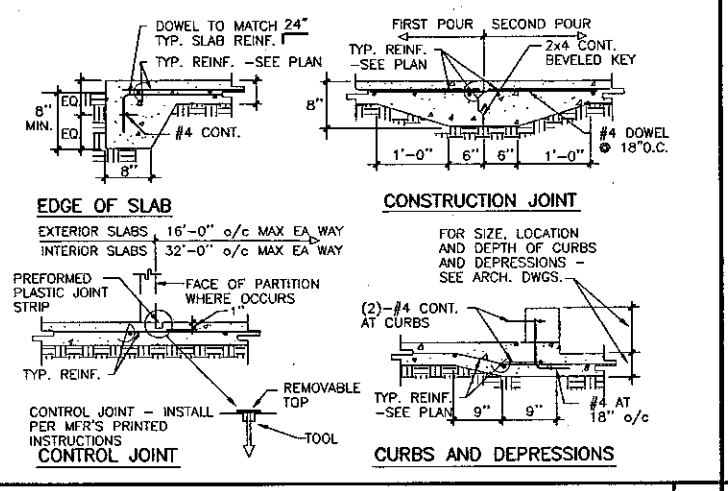
EXTENT OF CONTROLLED COMPACTED FILL

11



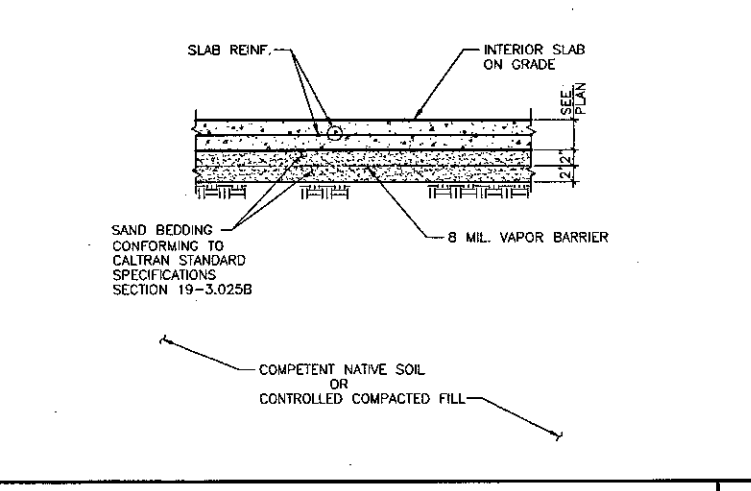
RAISED PAD

12



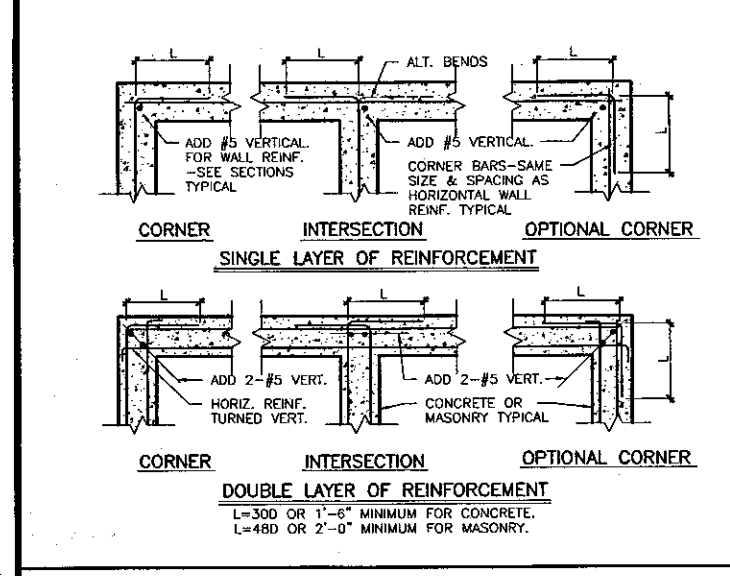
SLAB ON GRADE

13



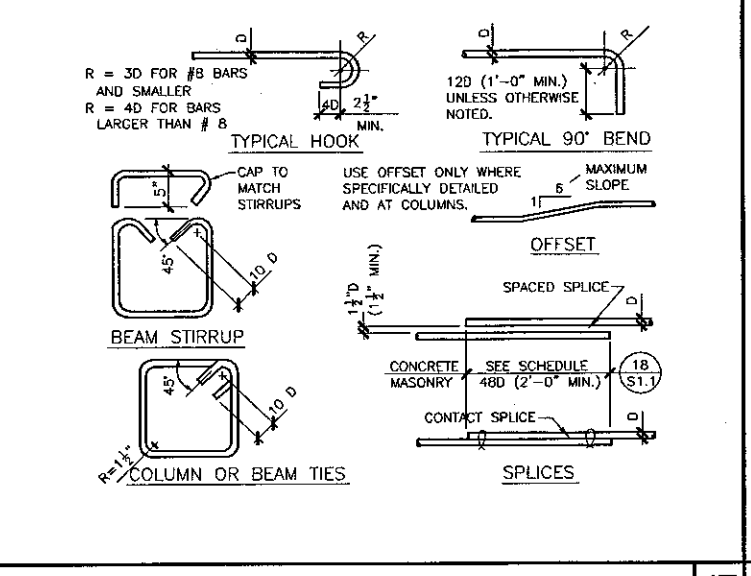
SLAB SUBSTRATE

14



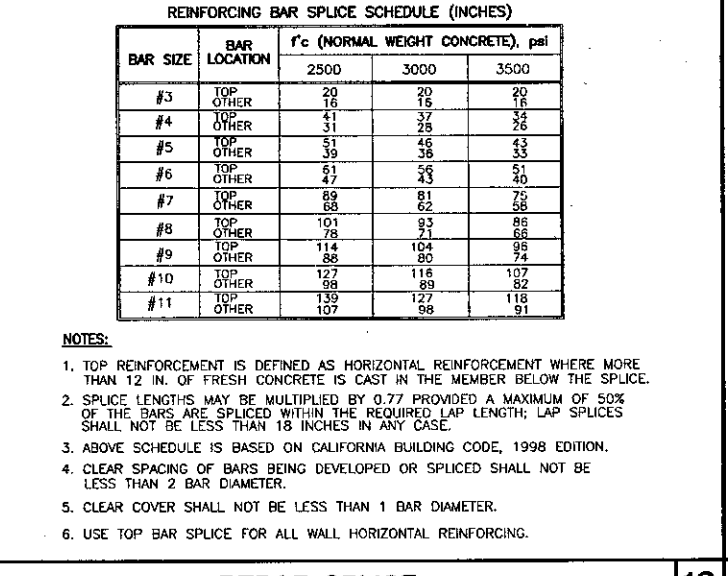
CORNERS AND INTERSECTIONS

16



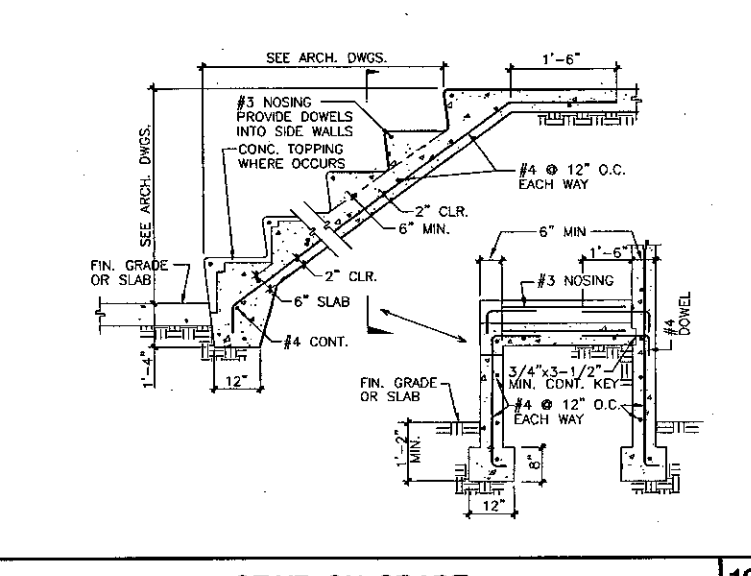
REBAR BENDS

17



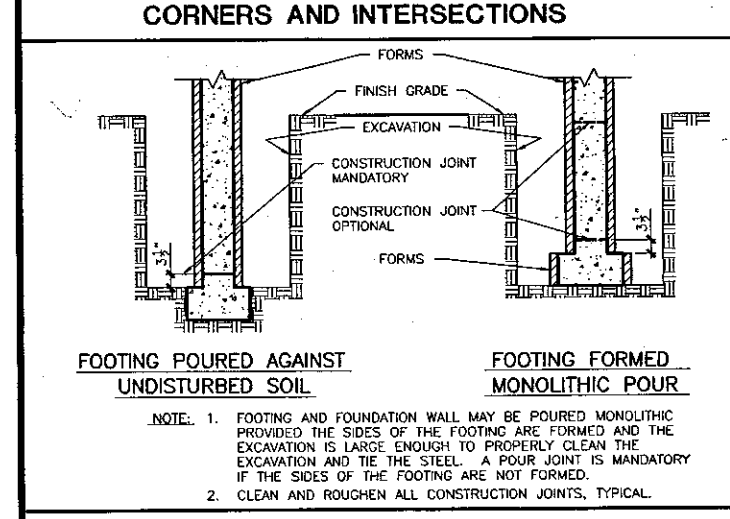
REBAR SPLICE

18



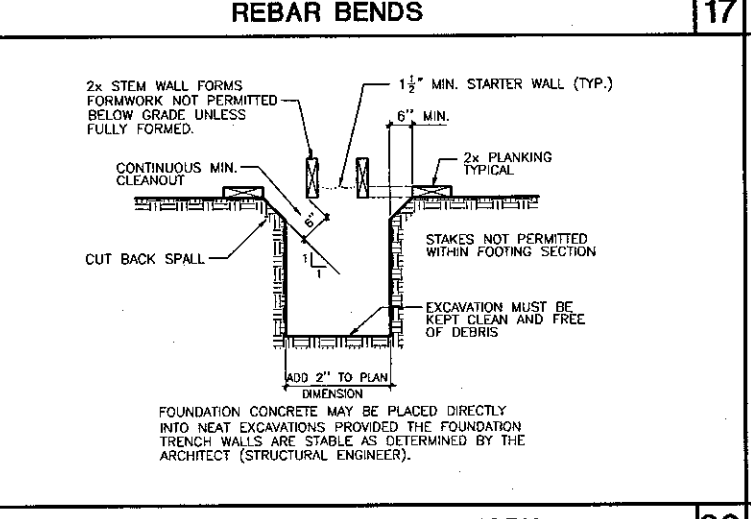
STAIR ON GRADE

19



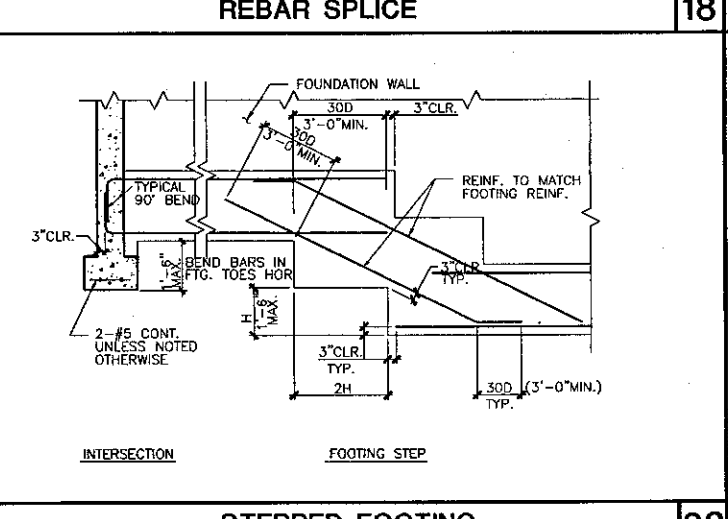
FOUNDATION FORMWORK

21



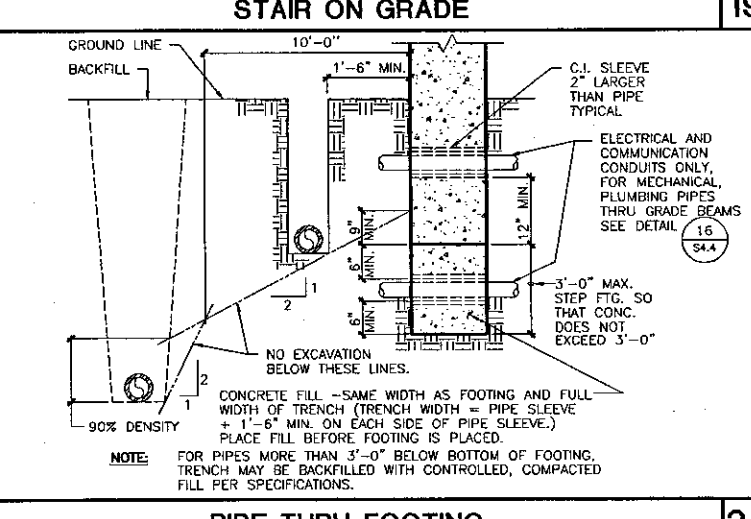
MIN. MANDATORY FORMWORK

22



STEPPED FOOTING

23



PIPE THRU FOOTING

24

GENERAL NOTES:

- VERIFY ALL DIMENSIONS AND CONDITIONS AT THE SITE.
- COORDINATE STRUCTURAL DETAILS & DIMENSIONS WITH RELATED REQUIREMENTS ON OTHER DRAWINGS.
- THE ARCHITECT WILL INTERPRET THE INTENT OF THE DOCUMENTS IN CASE OF POSSIBLE CONFLICT OR DISCREPANCY BETWEEN STRUCTURAL AND OTHER DISCIPLINES.
- SHEETS S1.1, S1.2, S1.3, S1.4, S1.5 AND S1.6 DETAILS NOTED AS "TYPICAL" OR "TYP." APPLY IN ALL CASES WHETHER OR NOT SPECIFICALLY REFERENCED.
- WORKMANSHIP AND MATERIALS SHALL CONFORM TO THE REQUIREMENTS OF CALIFORNIA BUILDING CODE, 1998 EDITION, VOLUME 2A.
- FOUNDATION DESIGN IS BASED UPON A REPORT TITLED: "GEO/TECHNICAL ENGINEERING REPORT" DATED: AUGUST 14, 2000 PREPARED BY: FUGRO WEST, INC. JOB NO.: 99-42-1441. DATE: MARCH 31, 2000 "DRAFT".

AND LETTER TITLED: "ERRATA PAGE", DATED: AUGUST 21, 2001 AND LETTER TITLED: "RESPONSE TO STRUCTURAL ENGINEER AND PSA REVIEW COMMENTS AND PRELIMINARY FOUNDATION PLAN REVIEW COMMENTS". JOB NO.: 99-42-1442. DATED: OCTOBER 31, 2001

EXISTING SOILS PRIMARILY CONSISTS OF STIFF LEAN CLAY AND SANDY LEAN CLAY. ALLOWABLE CAPACITIES OF DRILLED PIERS:

DIAMETER	DEPTH	ALLOWABLE DOWNWARD NET UPLIFT CAPACITY
24"	55'-0"	120 KIPS
30"	55'-0"	150 KIPS

A ONE THIRD INCREASE FOR WIND OR SEISMIC LOADS IS ALLOWED. ALLOWABLE BEARING CAPACITY OF SOIL FOR RETAINING WALLS AND MINOR FOUNDATIONS = 1500 PSF FOR DEAD PLUS LIVE LOADS. A ONE THIRD INCREASE FOR WIND OR SEISMIC LOADS IS ALLOWED.

- THE DEPTH, EXTENT, AND LOCATION OF ALL FLOOR DEPRESSIONS, ELEVATED AREAS, OR OTHER IRREGULARITIES SHALL BE COORDINATED WITH ARCHITECTURAL OR APPLICABLE DRAWINGS. THE STRUCTURAL DRAWINGS DO NOT NECESSARILY INDICATE ALL OF THESE ITEMS.
- STRUCTURAL PLANS INDICATE ONLY THE APPROXIMATE LOCATION OF MECHANICAL, ELECTRICAL AND OTHER EQUIPMENT, AS WELL AS RELATED AUXILIARY FRAMING NECESSARY TO SUPPORT SUCH EQUIPMENT. THE FINAL POSITIONING OF THESE ITEMS IS DEPENDENT UPON THE EQUIPMENT SELECTED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WORK BETWEEN SUBCONTRACTORS AND CRAFTS IN THIS REGARD, AND PROVIDING NECESSARY DIMENSIONS IN A TIMELY MANNER TO ALL PARTIES AND DETAILERS INVOLVED.

DESIGN CRITERIA

- VERTICAL LIVE LOADS (WITH CODE ALLOWABLE AREA REDUCTION U.N.O.)

LOCATION	28 DAY STRENGTH	DENSITY	MIN. CEMENT CONTENT
SLAB ON GRADE	3000 PSI	150 PCF	8.0 SACKS/CY.
GRADE BEAMS	3000 PSI	150 PCF	8.0 SACKS/CY.
PILE CAPS	3000 PSI	150 PCF	8.0 SACKS/CY.
11\"/>			

• CEMENT - ASTM C150, TYPE II

• AGGREGATE - ASTM C33, NORMAL WEIGHT, 1" MAX. SIZE AT SLAB ON GRADE AND CONCRETE FILL OVER METAL DECK, 1 1/2" MAX. SIZE AT ALL OTHER. -ASTM C330, LIGHT WEIGHT, 1" MAX. SIZE AT CONCRETE FILL OVER METAL DECK.

REINFORCING STEEL: ASTM A 615 GRADE 40 FOR #3; GRADE 60 FOR ALL OTHER SIZES.

STRUCTURAL STEEL: ASTM A 572 GR 50 FOR WIDE FLANGE SECTIONS AND WT SECTIONS.

STRUCTURAL STEEL TUBES: ASTM A 500, GRADE B

STRUCTURAL STEEL PIPES: ASTM A 53, GRADE B

BOLTS, NUTS & WASHERS: ASTM A325 SC, A307 WHERE NOTED

ANCHOR BOLTS: ASTM A 307, A334 GRADE BC WHERE NOTED.

METAL DECK: ASTM A 446, Fy = 38 KSI AND ZINC COATED PER A525, G60

METAL STUD: SEE METAL STUD PROPERTIES 10/S1.6

NOTE: PROVIDE PLYWOOD COLLAR AROUND HOLE FOR DRILLED PIER, VIBRATE CONCRETE FULL LENGTH.

GENERAL NOTES

MATERIALS	SYMBOLS
CONCRETE	NUMBER REF. DETAIL OR SECTION SHEET REF.
CONCRETE BLOCK	FINISH ELEVATION
STRUCTURAL STEEL	BOTTOM OF FOOTING ELEVATION
EARTH	NUMBER REF. WALL ELEVATION SHEET REF.
DEPRESSION	FOOTING STEP
	TOP OF STEEL ELEVATION

GENERAL NOTES

- GENERAL NOTES AND TYPICAL DETAILS
- TYPICAL FOUNDATION DETAILS
- TYPICAL STEEL DETAILS
- TYPICAL BRACE FRAME DETAILS
- TYPICAL METAL DECK DETAILS
- TYPICAL METAL STUD DETAILS
- FIRST FLOOR/FOUNDATION PLAN
- SECOND FLOOR FRAMING PLAN
- THIRD FLOOR/LOW ROOF FRAMING PLAN
- HIGH ROOF FRAMING PLAN
- MISCELLANEOUS FRAMING PLANS
- STRUCTURAL ELEVATIONS
- STRUCTURAL ELEVATIONS
- SECTIONS AND DETAILS
- SECTIONS AND DETAILS
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- SECTIONS AND DETAILS
- STAR FRAMING PLANS AND DETAILS
- STAR DETAILS

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
FILE NUMBER: SDC1
APPL 03-104498

NO.	DESCRIPTION	DATE	BY
REVISION			

DRAWN: H. VELASQUEZ
CHECKED: L. TSO/B. MURDOCK
DATE: 09/24/01
JOB NO.: 9318
SHEET TITLE: GENERAL NOTES AND TYPICAL DETAILS
SHEET: S1.1

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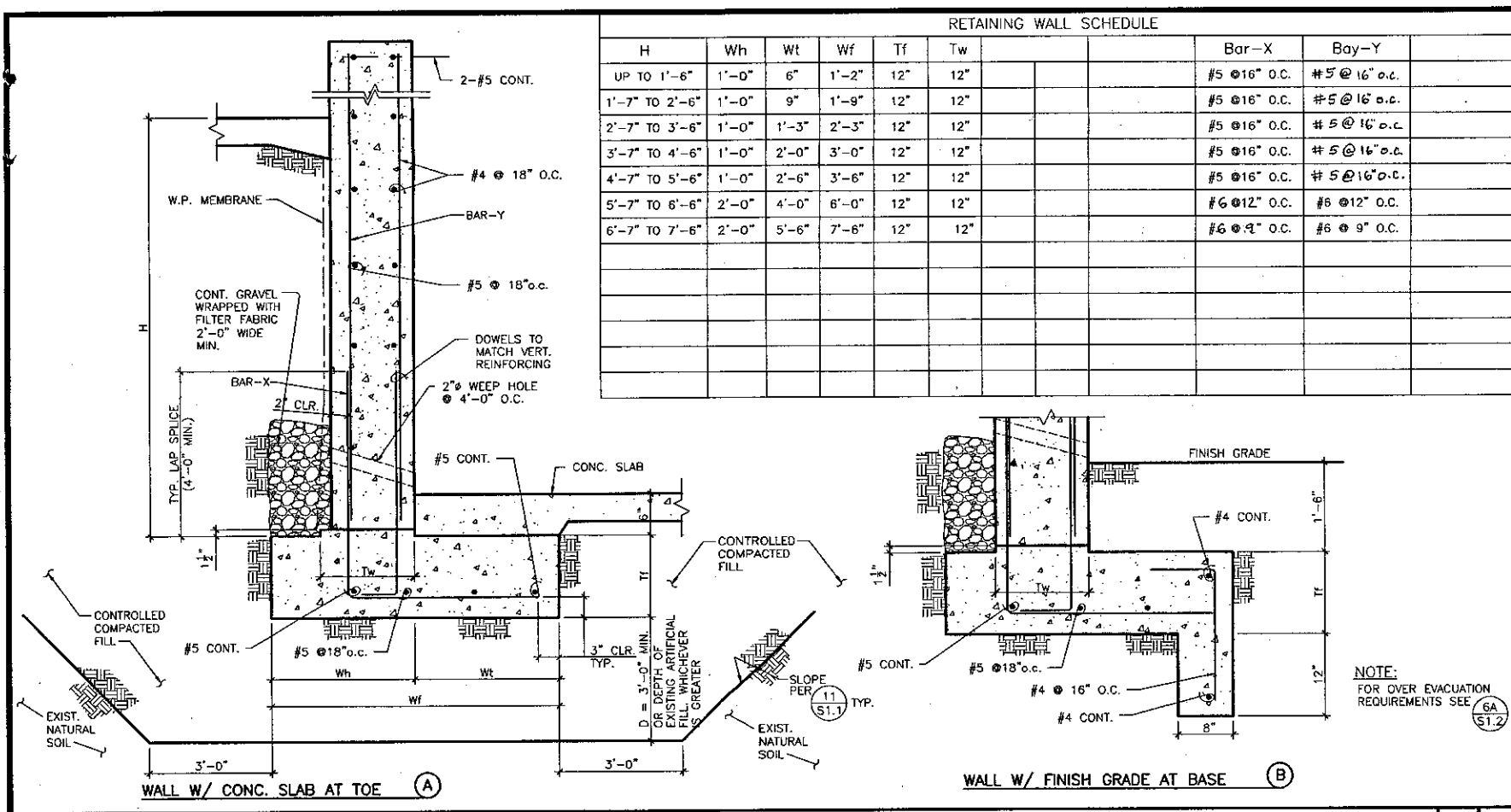
ENGINEER'S STAMP
ARCHITECT'S STAMP

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
FILE NUMBER: SDC1
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LEGEND

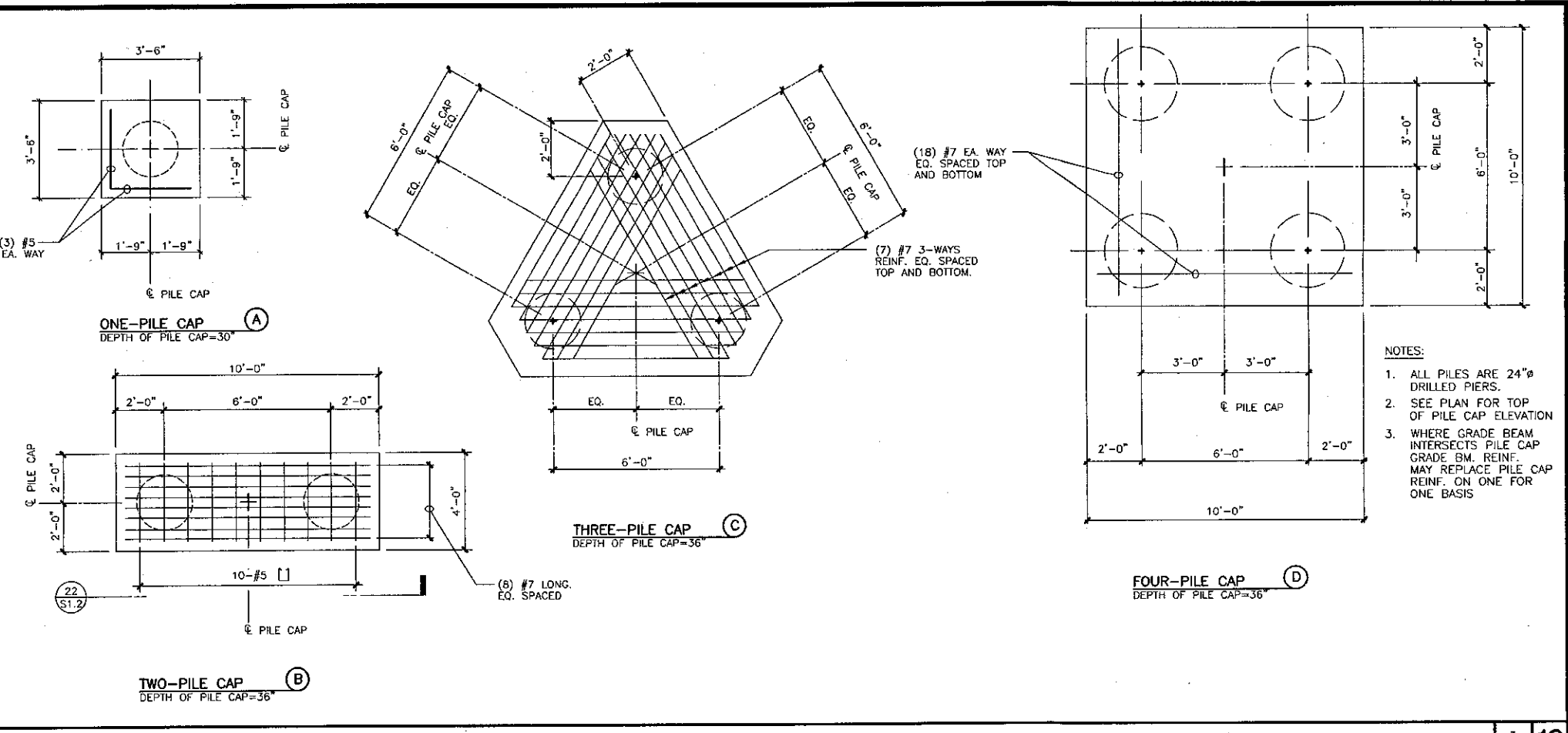
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DRAWN: H. VELASQUEZ
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SHEET TITLE: GENERAL NOTES AND TYPICAL DETAILS
SHEET: S1.1



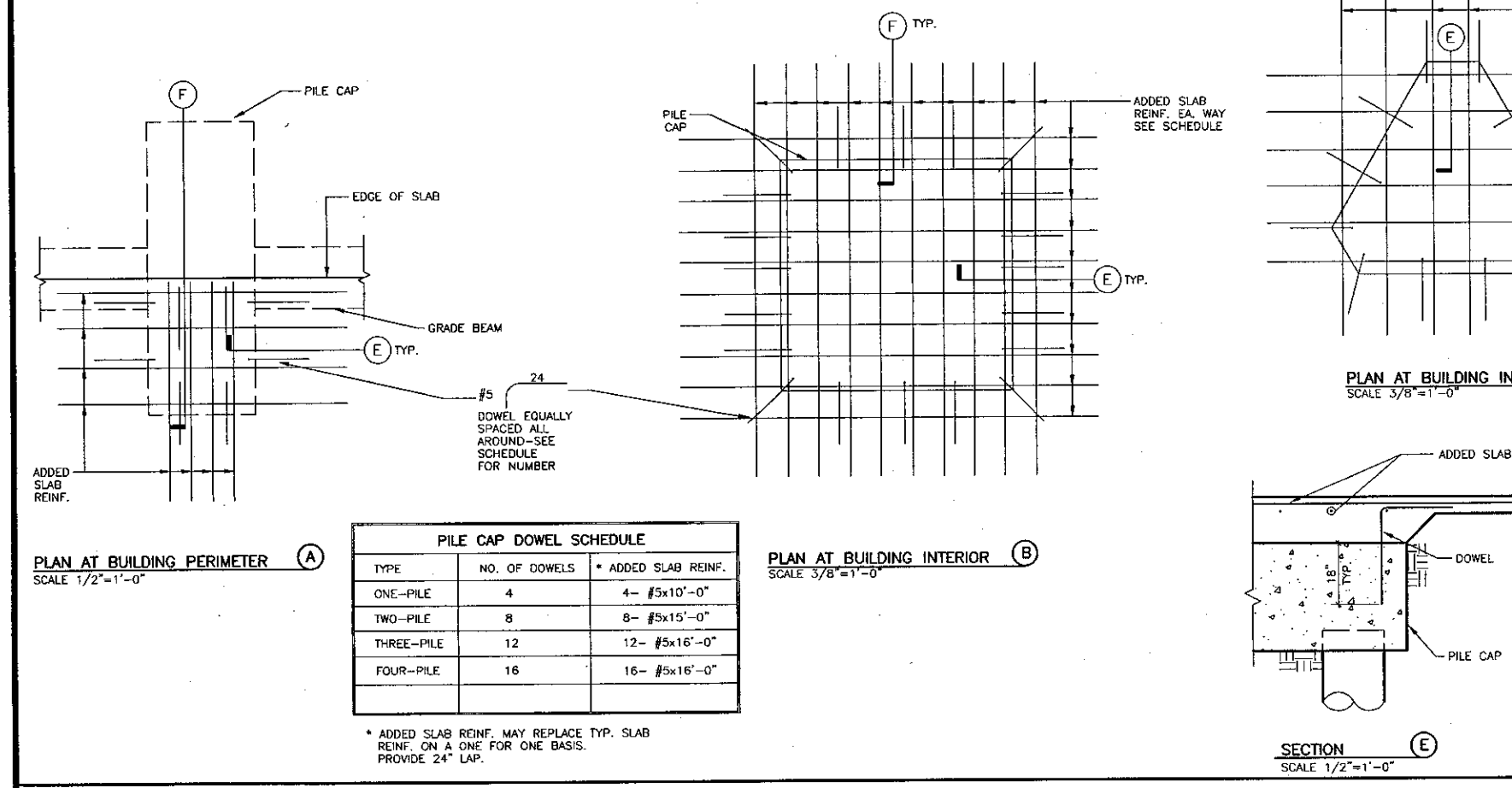
RETAINING WALL SCHEDULE

H	Wh	Wt	Wf	Tf	Tw	Bar-X	Bar-Y
UP TO 1'-6"	1'-0"	6"	1'-2"	12"	12"	#5 @ 16" O.C.	#5 @ 16" O.C.
1'-7" TO 2'-6"	1'-0"	9"	1'-9"	12"	12"	#5 @ 16" O.C.	#5 @ 16" O.C.
2'-7" TO 3'-6"	1'-0"	1'-3"	2'-3"	12"	12"	#5 @ 16" O.C.	#5 @ 16" O.C.
3'-7" TO 4'-6"	1'-0"	2'-0"	3'-0"	12"	12"	#5 @ 16" O.C.	#5 @ 16" O.C.
4'-7" TO 5'-6"	1'-0"	2'-6"	3'-6"	12"	12"	#5 @ 16" O.C.	#5 @ 16" O.C.
5'-7" TO 6'-6"	2'-0"	4'-0"	6'-0"	12"	12"	#6 @ 12" O.C.	#5 @ 12" O.C.
6'-7" TO 7'-6"	2'-0"	5'-6"	7'-6"	12"	12"	#6 @ 9" O.C.	#6 @ 9" O.C.



RETAINING WALL SECTION AND SCHEDULE 1" 6

TYPICAL PILE CAP DETAILS 1" 10

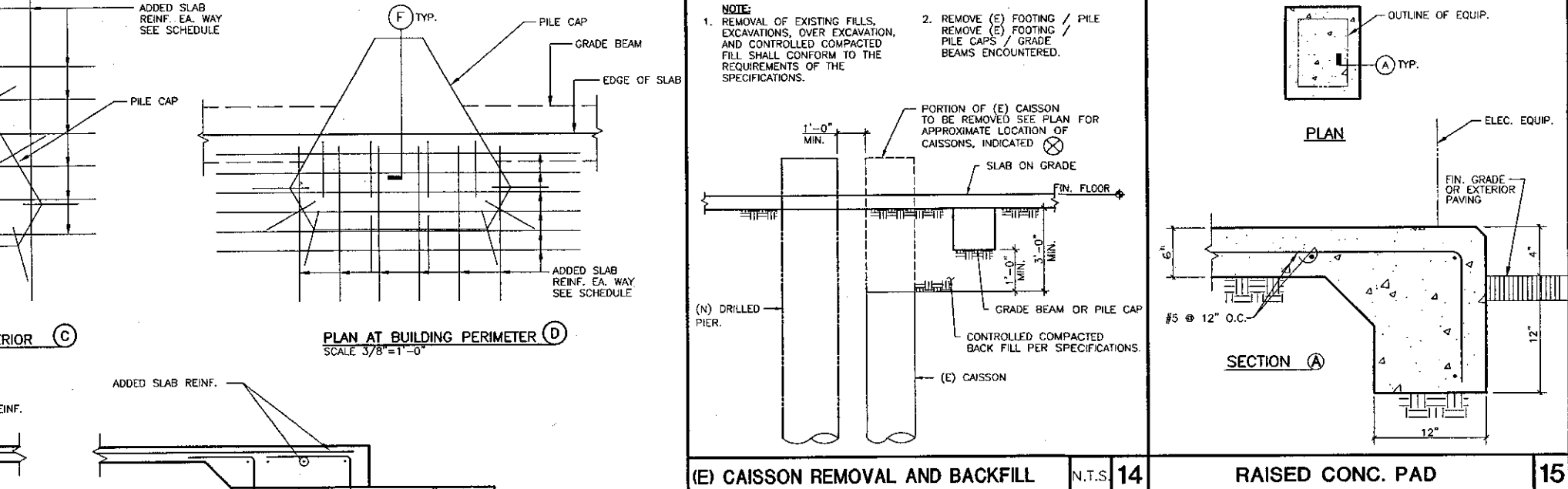


PILE CAP DOWEL SCHEDULE

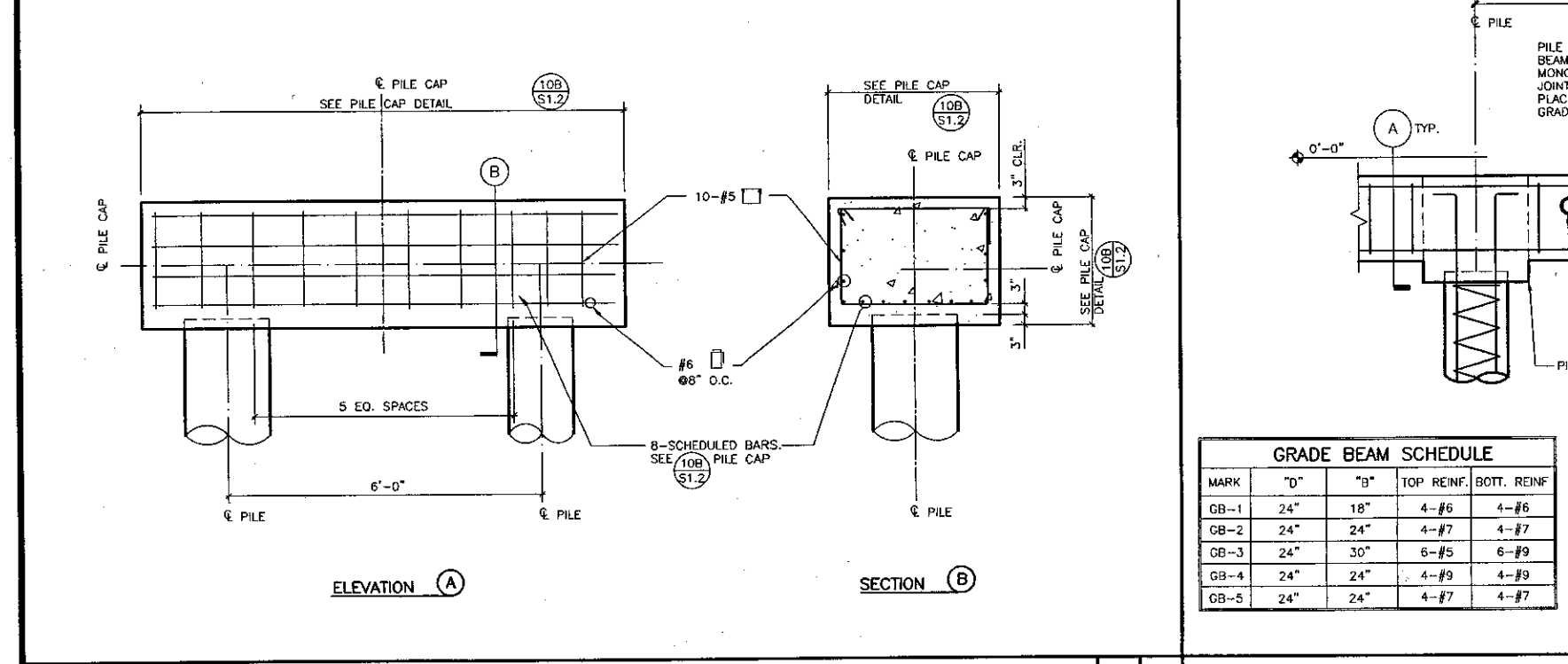
TYPE	NO. OF DOWELS	* ADDED SLAB REINF.
ONE-PILE	4	4- #5x10'-0"
TWO-PILE	8	8- #5x15'-0"
THREE-PILE	12	12- #5x15'-0"
FOUR-PILE	16	16- #5x15'-0"

* ADDED SLAB REINF. MAY REPLACE TYP. SLAB REINF. ON ONE FOR ONE BASIS. PROVIDE 24" LAP.

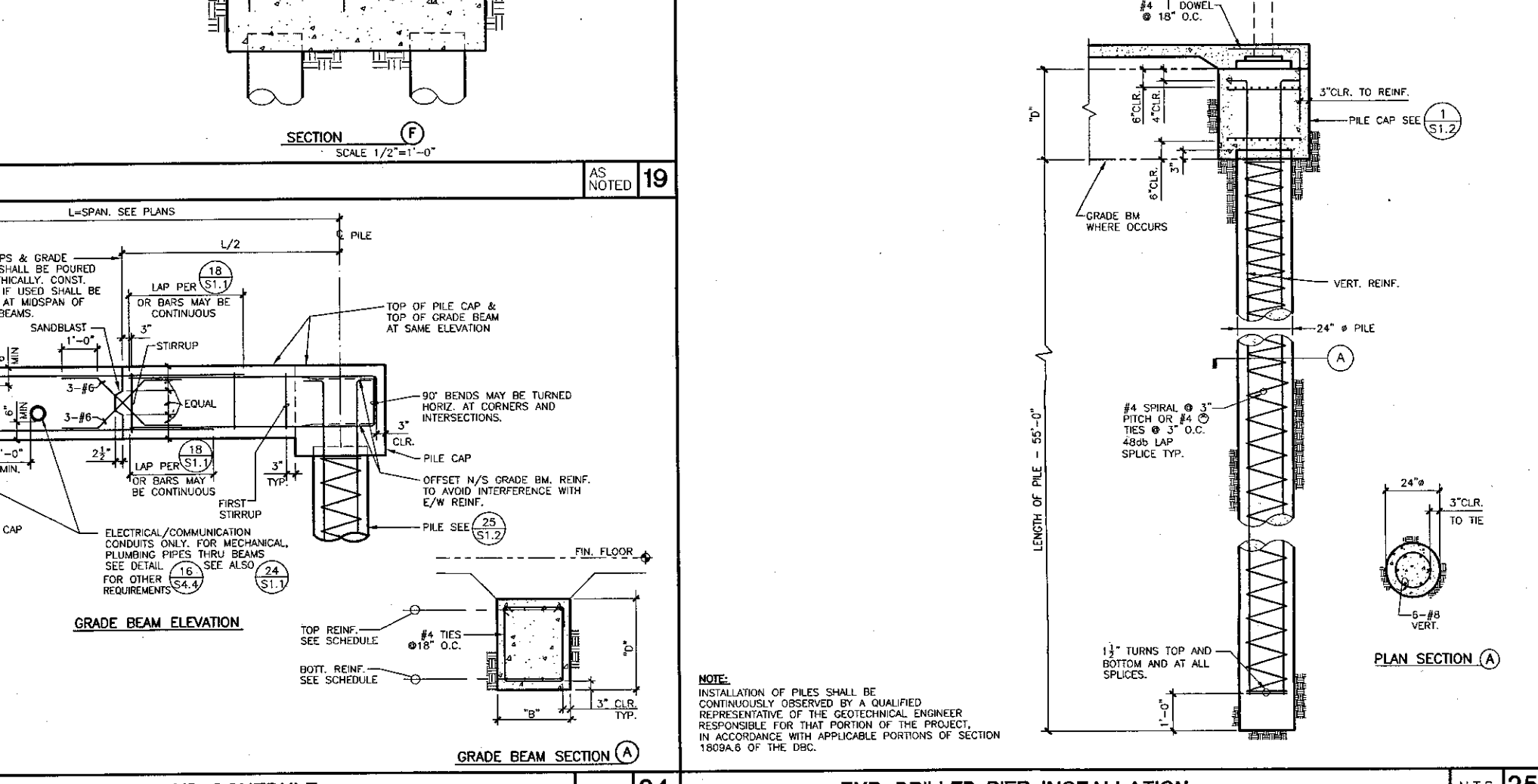
TYPICAL PILE CAP/SLAB ON GRADE DETAILS AS NOTED 19



(E) CAISSON REMOVAL AND BACKFILL N.T.S. 14 RAISED CONC. PAD 15



SPECIAL TWO-PILE CAP REINFORCING 1/2" 22



GRADE BEAM SCHEDULE

MARK	"0"	"9"	TOP REINF.	BOTT. REINF.
GB-1	24"	18"	4-#6	4-#6
GB-2	24"	24"	4-#7	4-#7
GB-3	24"	30"	6-#5	6-#9
GB-4	24"	24"	4-#9	4-#9
GB-5	24"	24"	4-#7	4-#7

GRADE BEAM DETAILS AND SCHEDULE N.T.S. 24 TYP. DRILLED PIER INSTALLATION N.T.S. 25

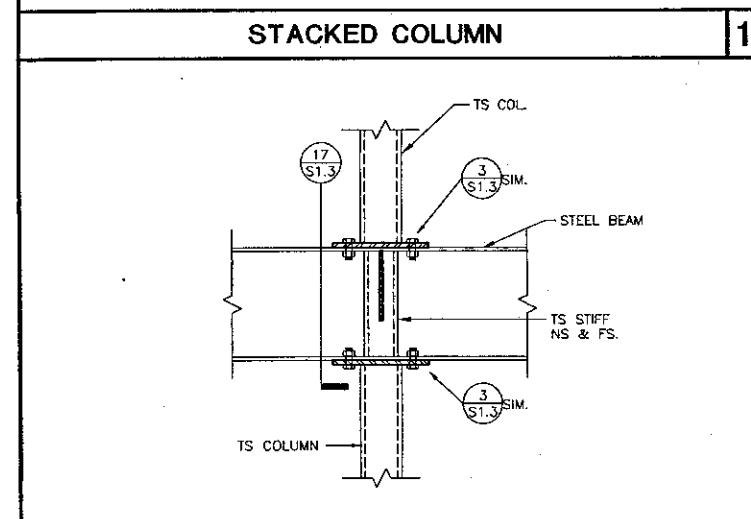
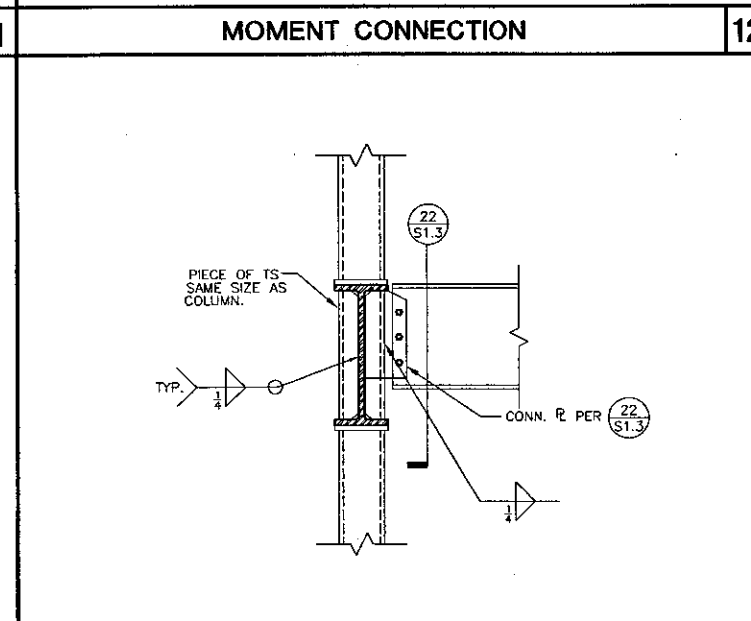
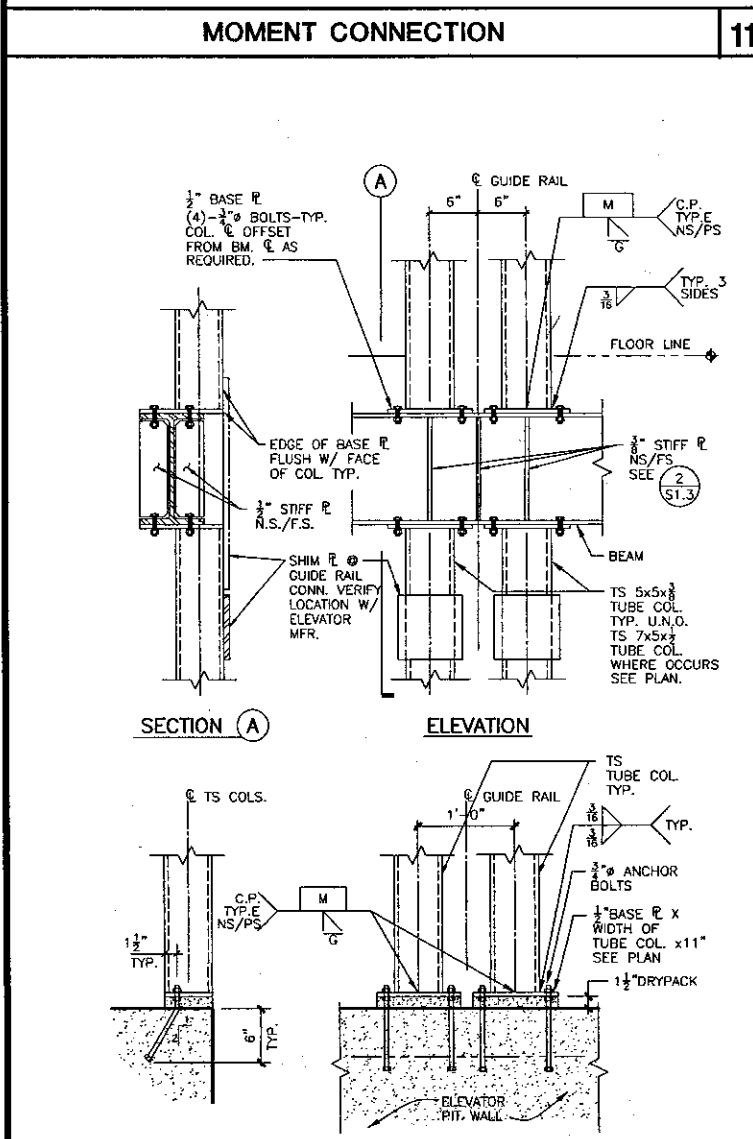
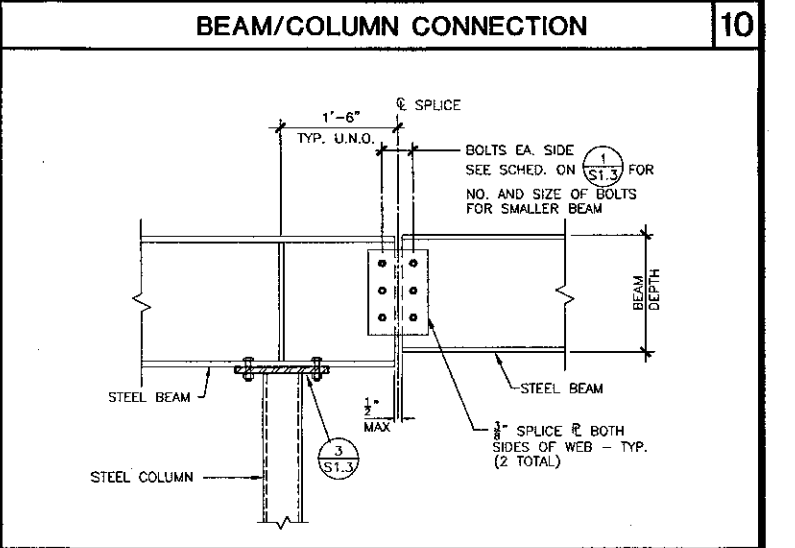
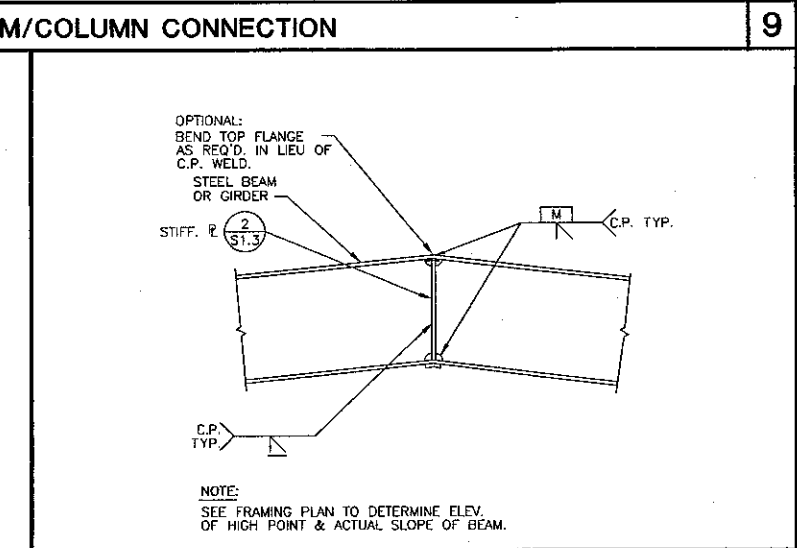
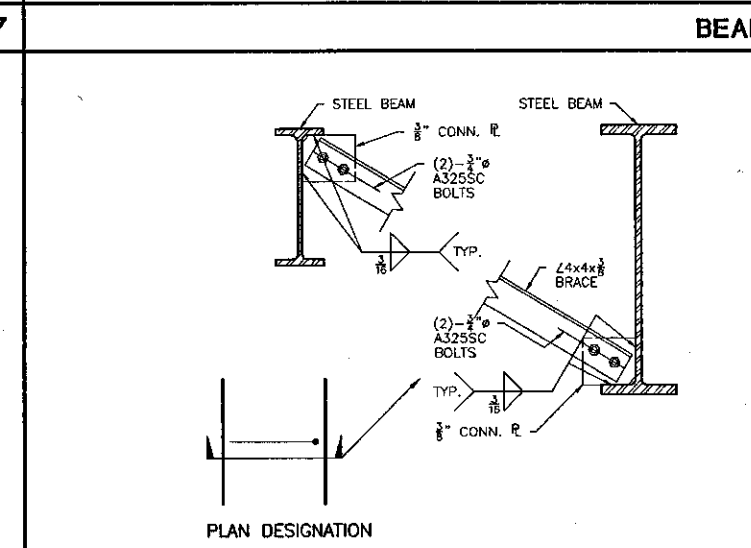
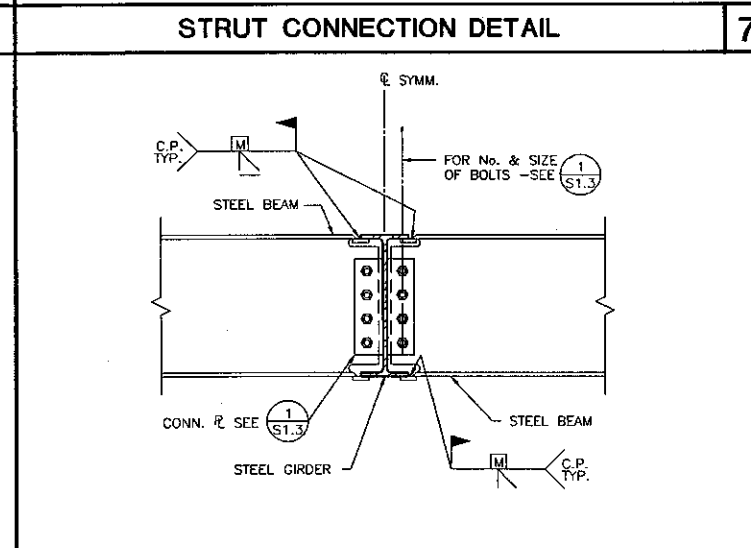
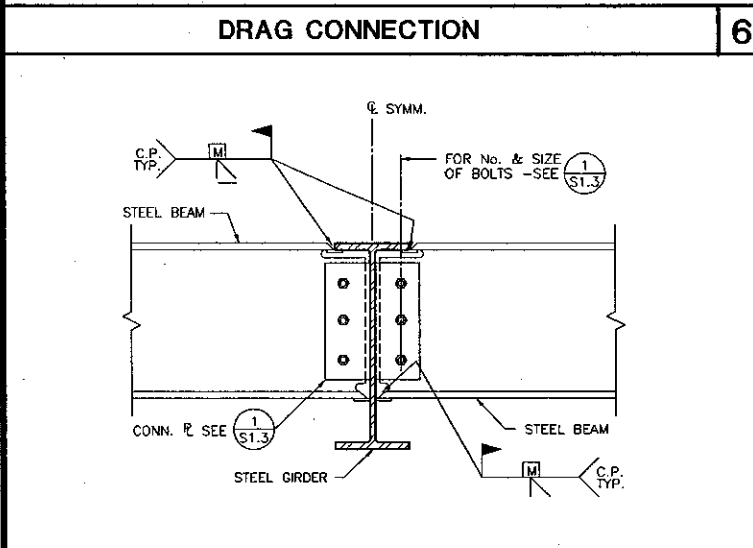
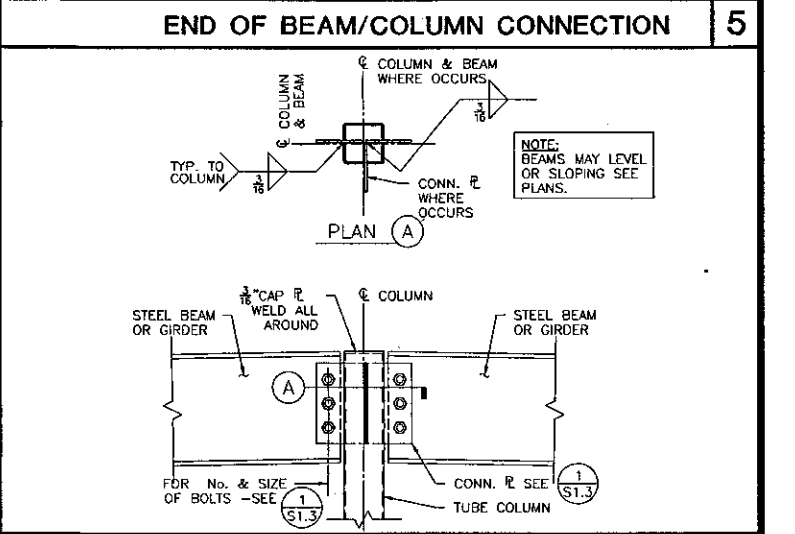
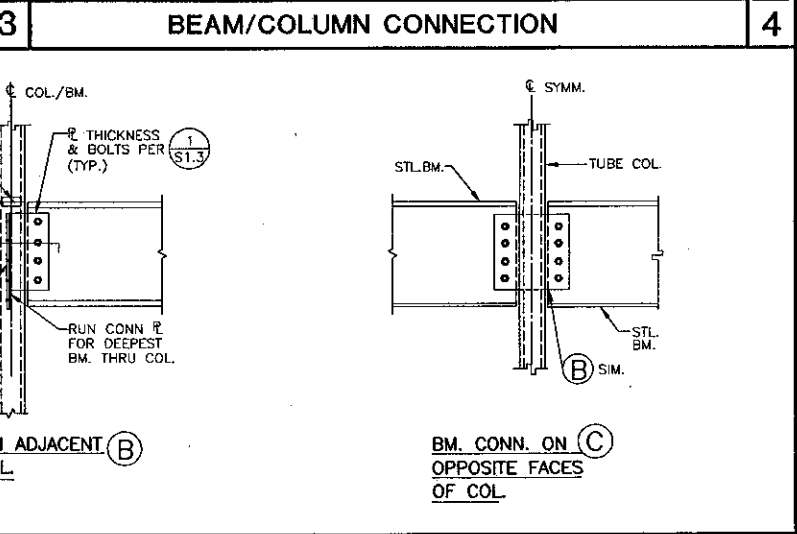
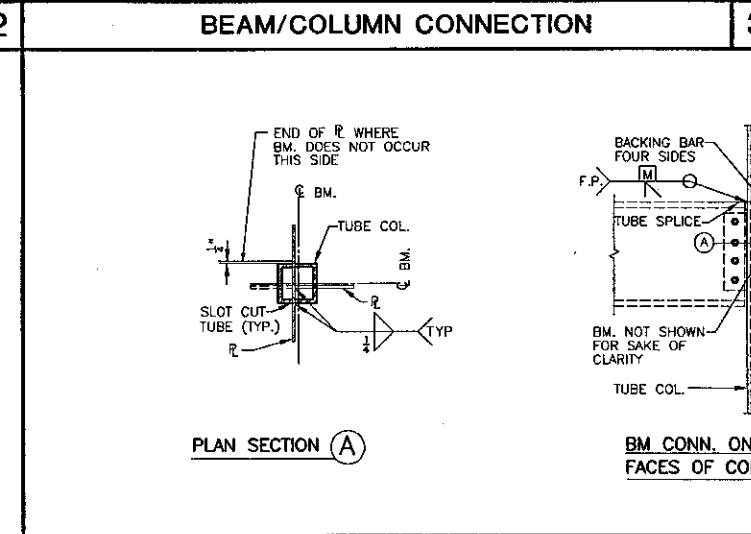
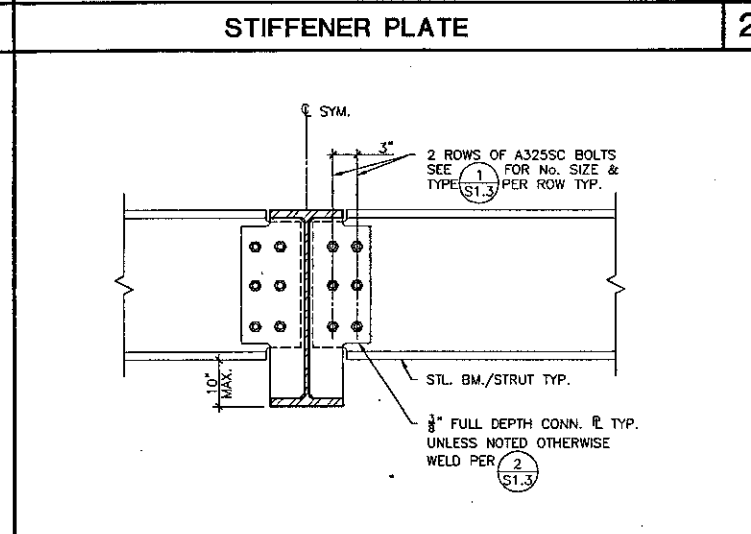
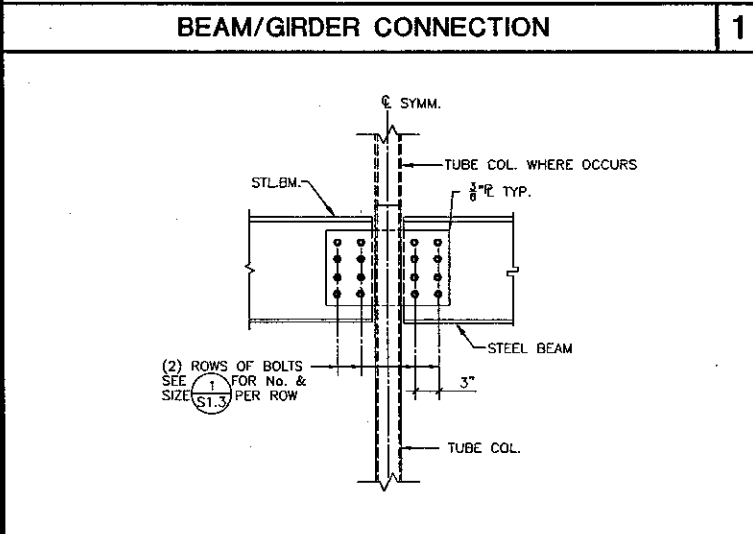
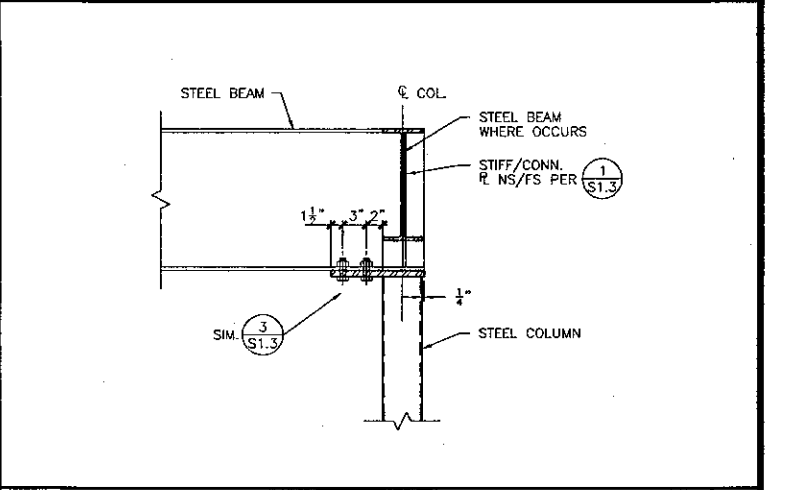
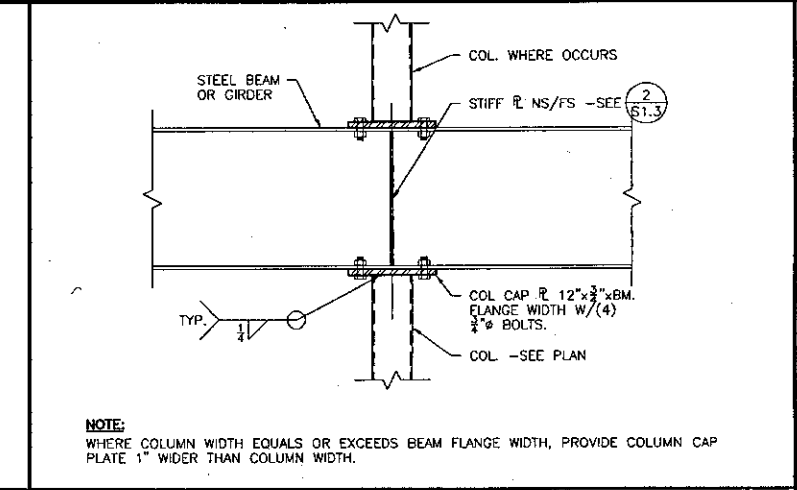
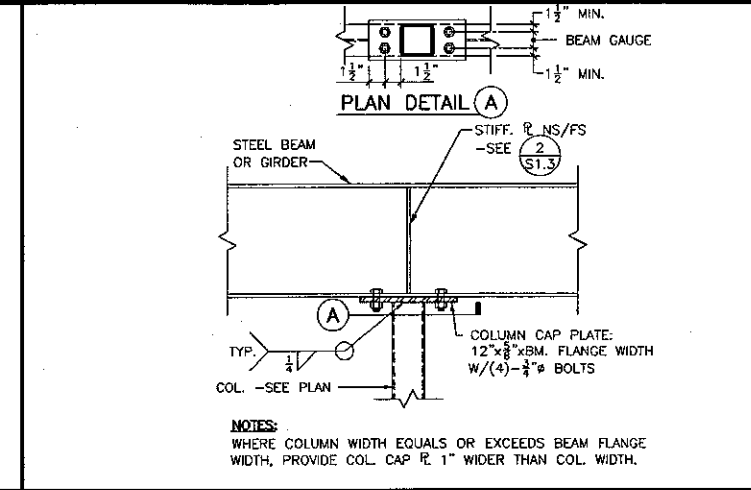
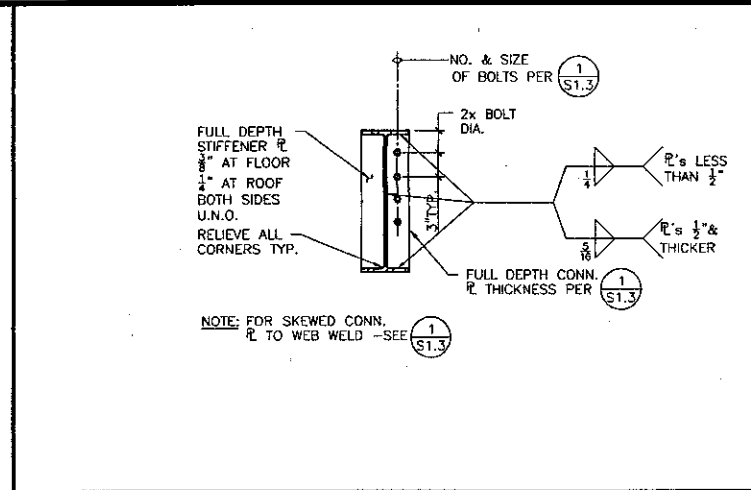
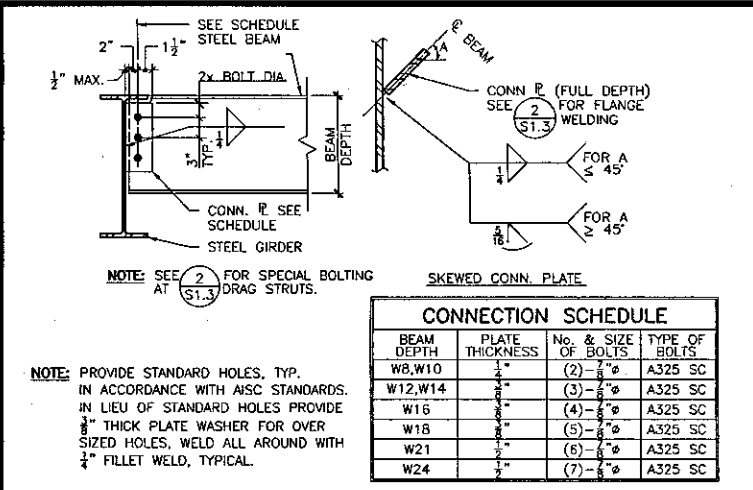
KRUGER BENSEN ZIEMER ARCHITECTS, INC. 30 W. ARROYO SANTA BARBARA, CA 93101
STEVE DOWTY, A.I.A. PRINCIPAL IN CHARGE
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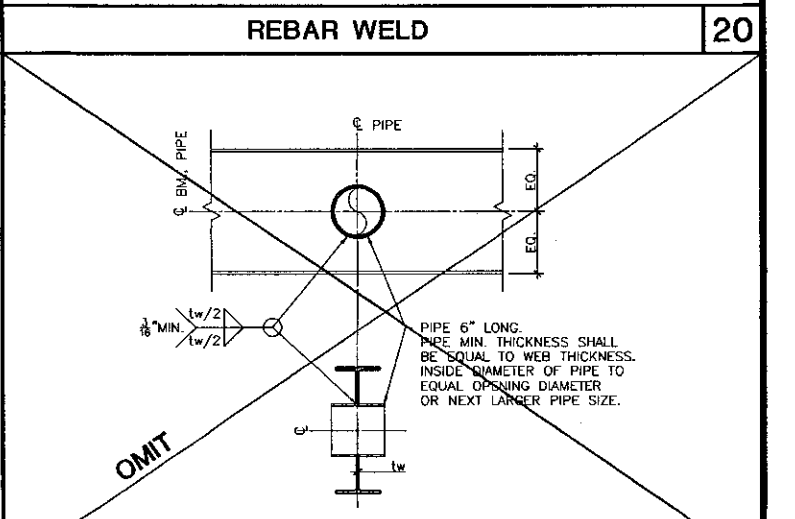
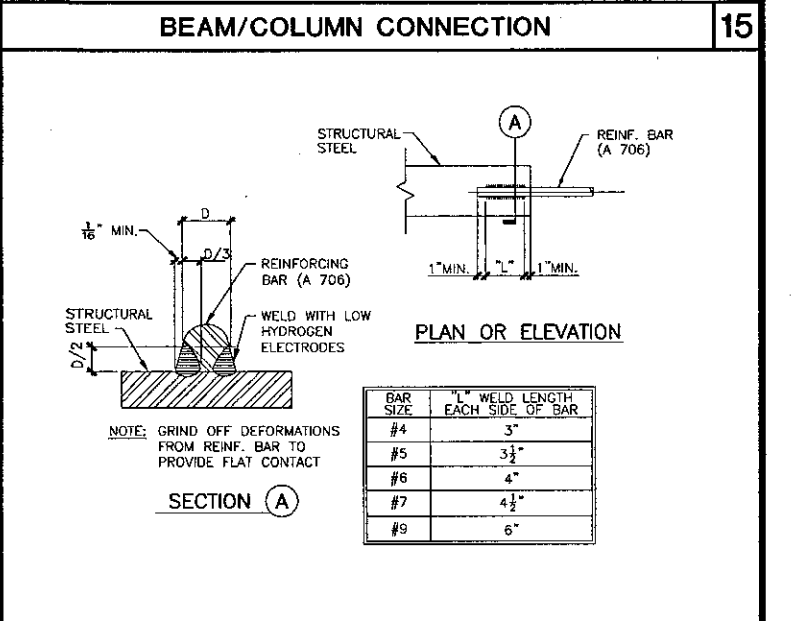
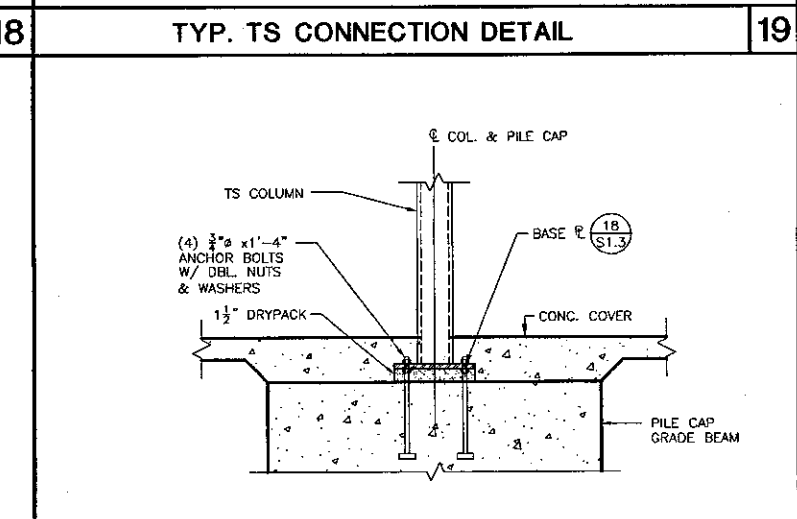
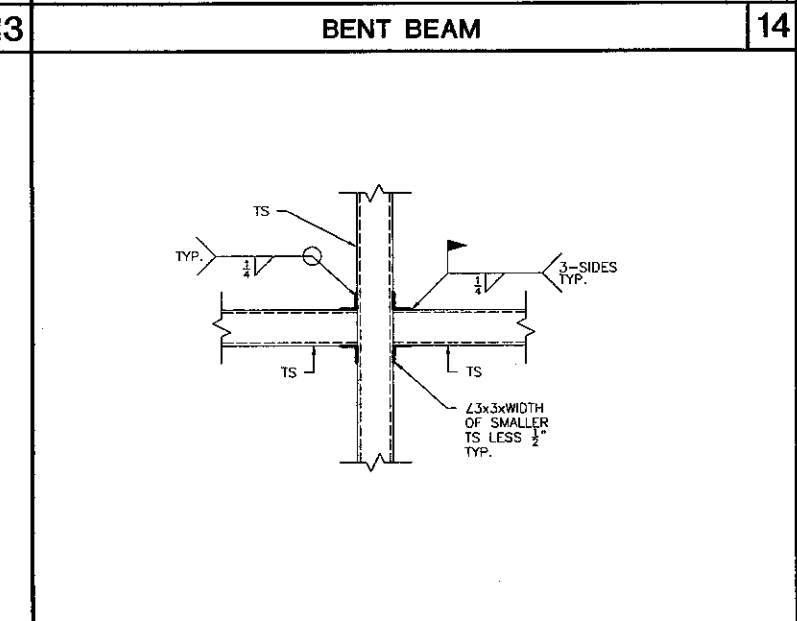
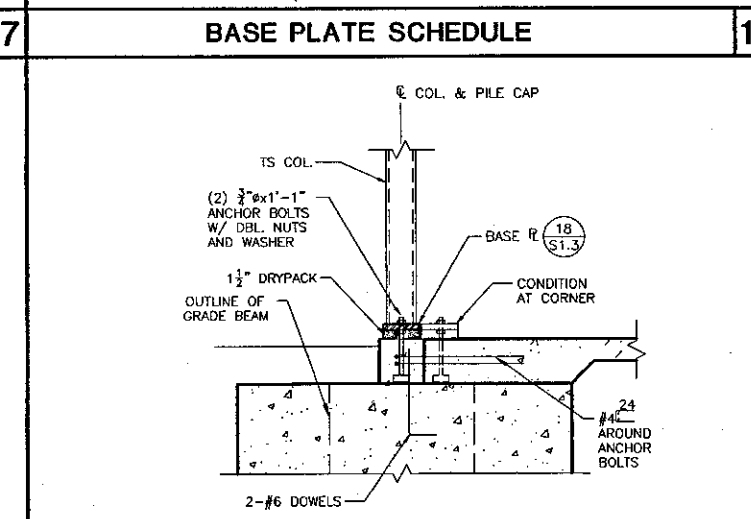
ENGINEER'S STAMP ARCHITECT'S STAMP
DIVISION OF THE STATE ARCHITECT FILE NUMBER: 56C1
APR 03-104498

NO. DESCRIPTION DATE BY
REVISION

DRAWN: H. VELASQUEZ
CHECKED: L. TSO/B. MURDOCK
DATE: 09/24/01
JOB NO.: 9318
SHEET TITLE: TYPICAL FOUNDATION DETAILS
SHEET: S1.2



COLUMN SIZE	"A" DIM.	"B" DIM.	"C" DIM.	"W" WELD	THICK
TS4x4	12"	6"	11"	1/4"	3/8"
TS5x5	12"	6"	10"	1/4"	3/8"
TS6x6	13"	8"	12"	3/8"	1"
TS7x7	14"	-	-	3/8"	1"
TS8x8	15"	-	-	3/8"	1 1/2"
10" PIPE & TS10x10	16"	-	-	3/8"	1 1/2"



KRBZ
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 30 W. ARRELLAGA
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STEVE DOWDY, A.I.A.
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THIERRY H. CASSAN
 PROJECT DESIGNER

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LEARNING RESOURCES CENTER
 Ventura County Community College District
 Ventura, CA 93003
 4667 Telegraph Road

ENGINEER'S STAMP
 ARCHITECT'S STAMP

IDENTIFICATION STAMP
 DIVISION OF THE STATE ARCHITECT
 FILE NUMBER: 50C1
 APPL 03-104498

NO.	DESCRIPTION	DATE	BY

DRAWN: H. VELASQUEZ
 CHECKED: L. TSO/B. MURDOCK
 DATE: 09/24/01
 JOB NO.: 9318
 SHEET TITLE: TYPICAL STEEL DETAILS
 SHEET: S1.3

BRACE CONNECTION SCHEDULE

BRACE SIZE	GUSSET R	WELD SIZE, W	WELD LENGTH, L1	WELD LENGTH, L2	WELD LENGTH, L3
TS4x4	4"	5/16"	3 1/2"	24" MIN.	20" MIN.
TS5x5	5"	5/16"	5"	24" MIN.	20" MIN.
TS6x6	6"	5/16"	7"	30" MIN.	20" MIN.
TS7x7	7"	5/16"	10"	36" MIN.	24" MIN.
TS8x8	8"	5/16"	14"	42" MIN.	24" MIN.
TS10x10	10"	5/16"	16"	46" MIN.	24" MIN.
10" STD. PIPE	11"	5/16"	14"	48" MIN.	28" MIN.
10" S.S. PIPE	11"	5/16"	14"	48" MIN.	28" MIN.
TS6x4	6"	5/16"	5"	24" MIN.	34" MIN.

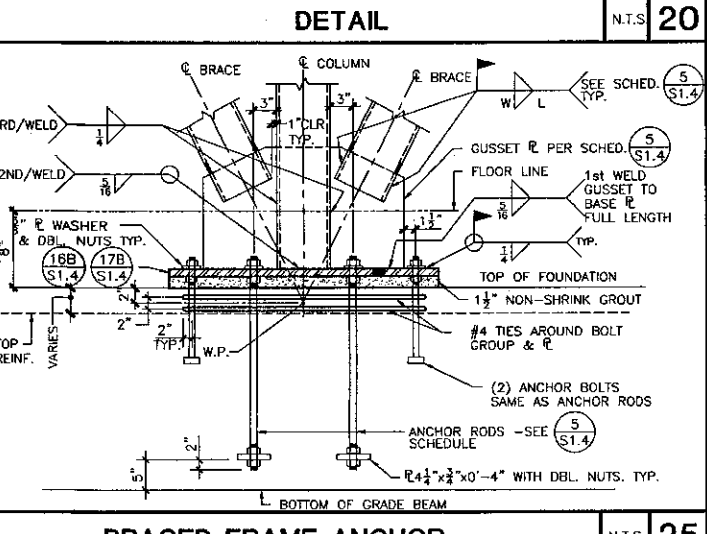
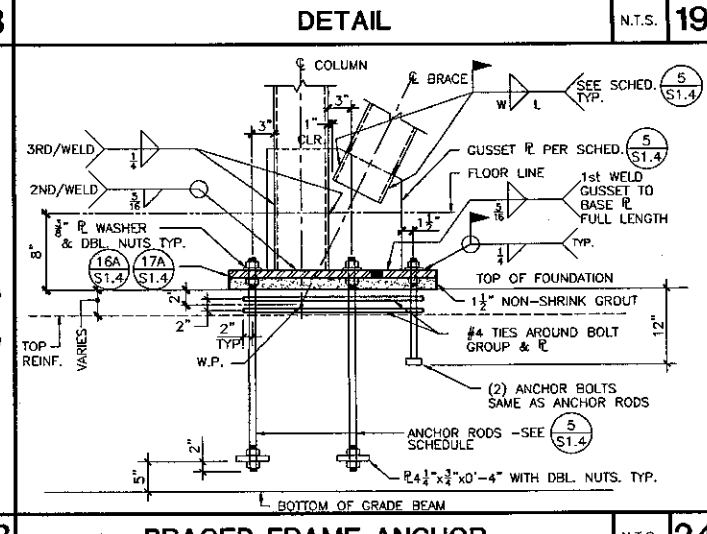
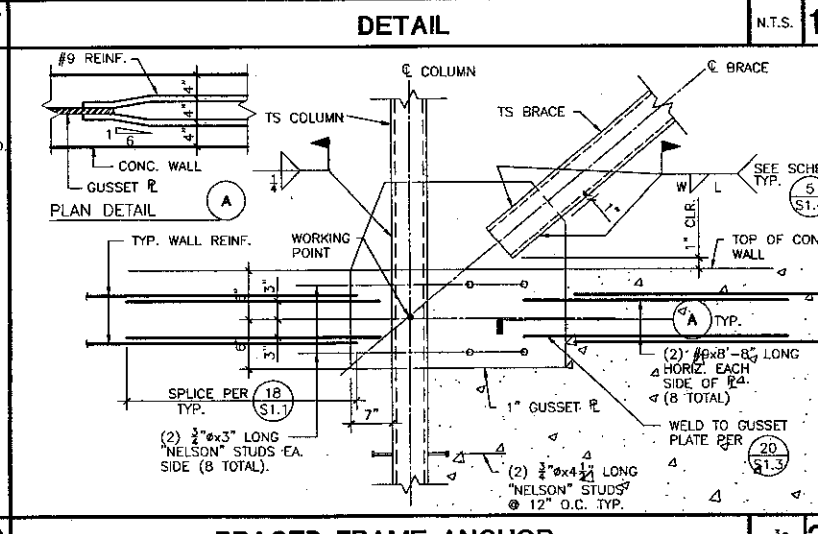
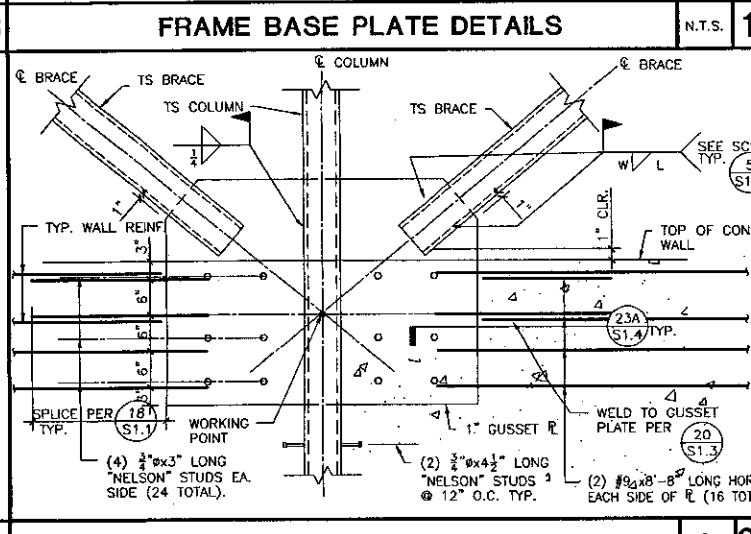
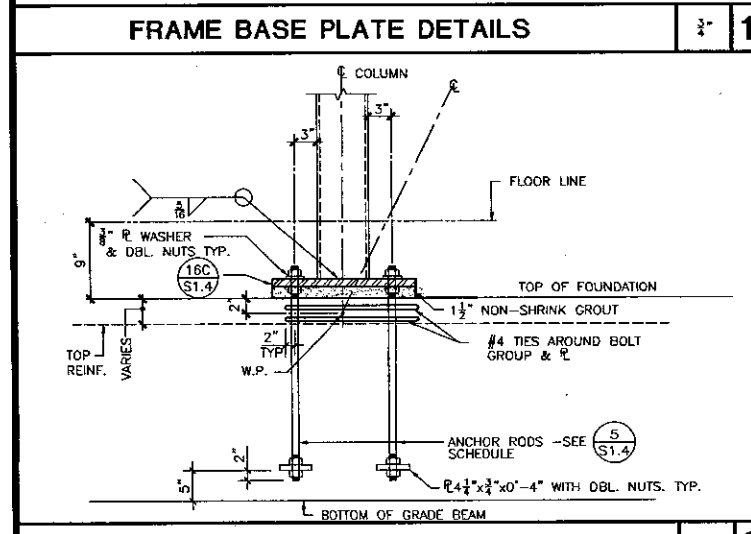
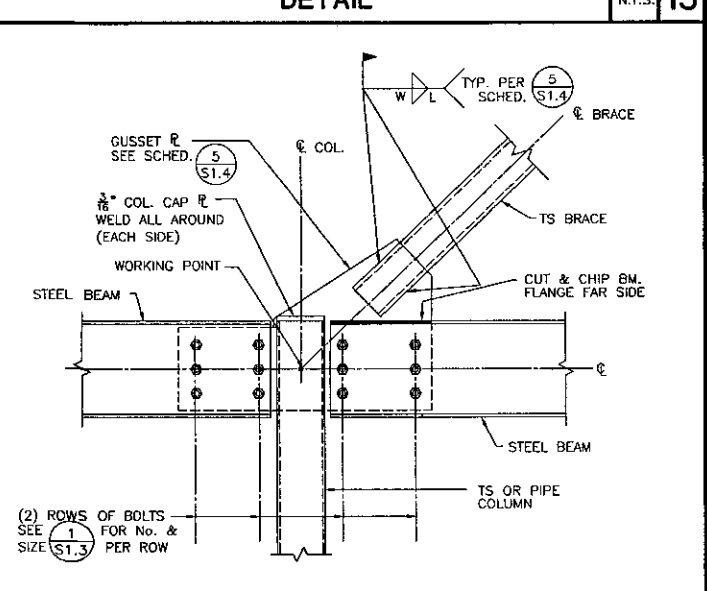
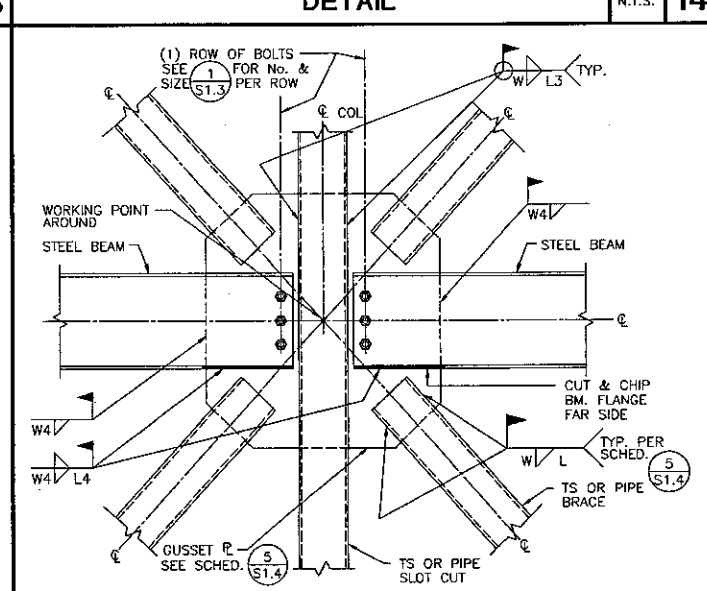
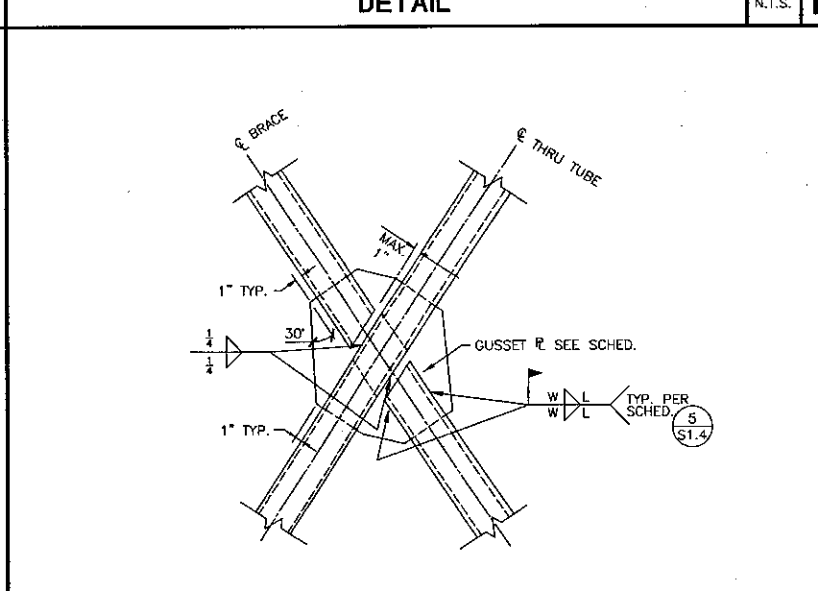
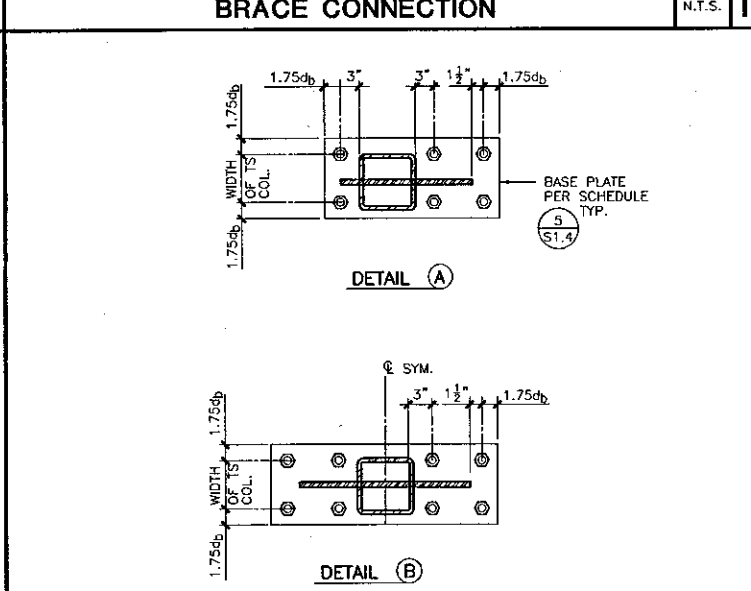
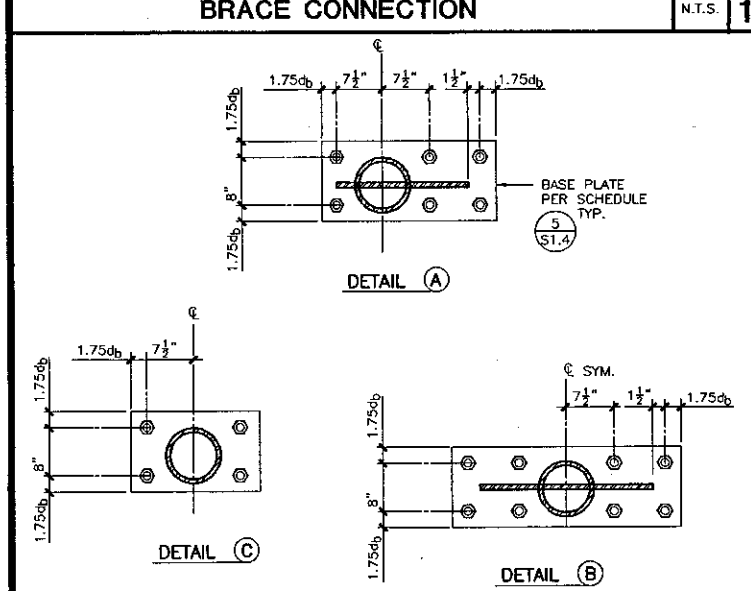
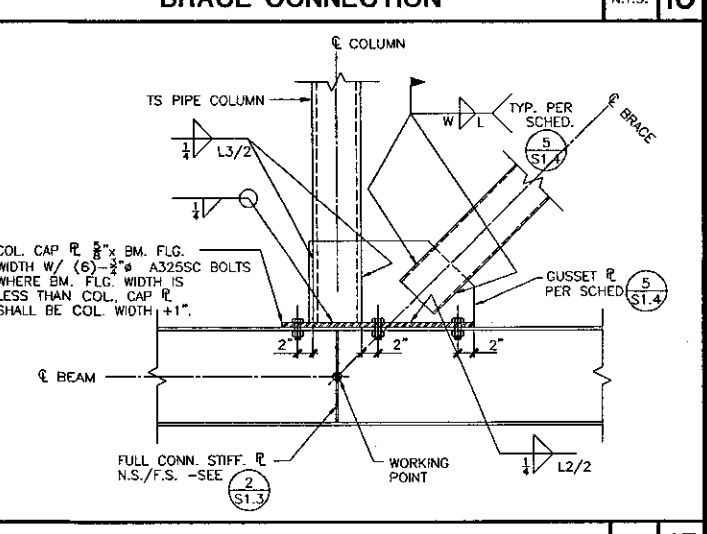
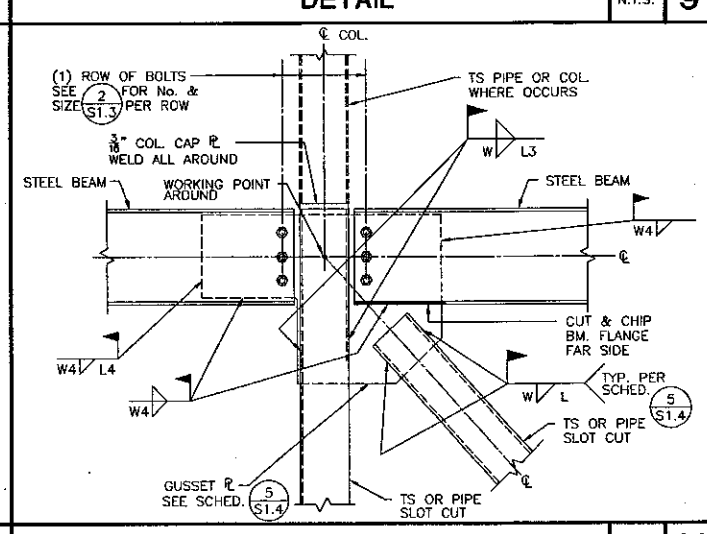
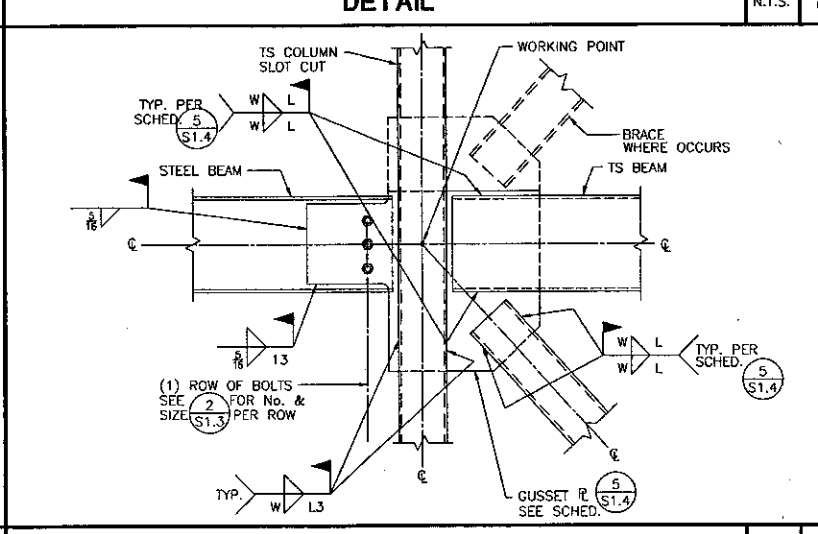
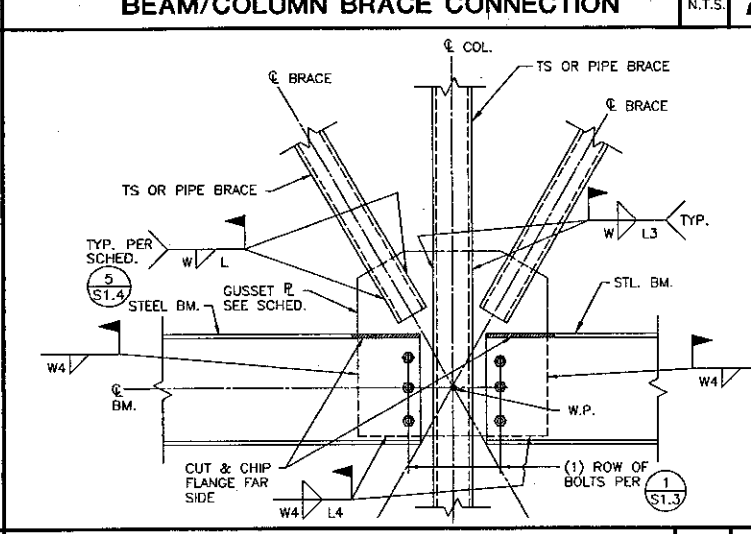
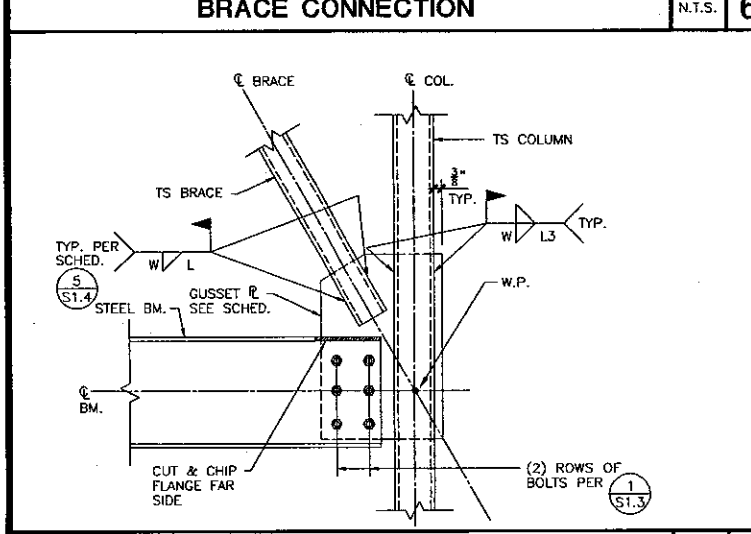
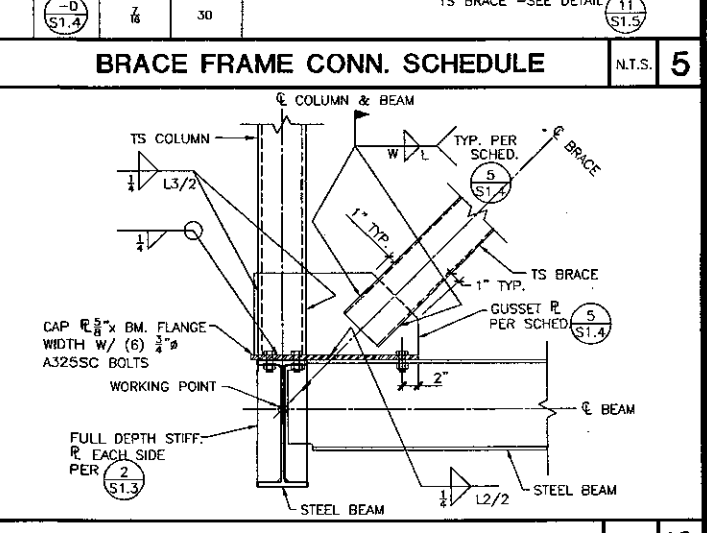
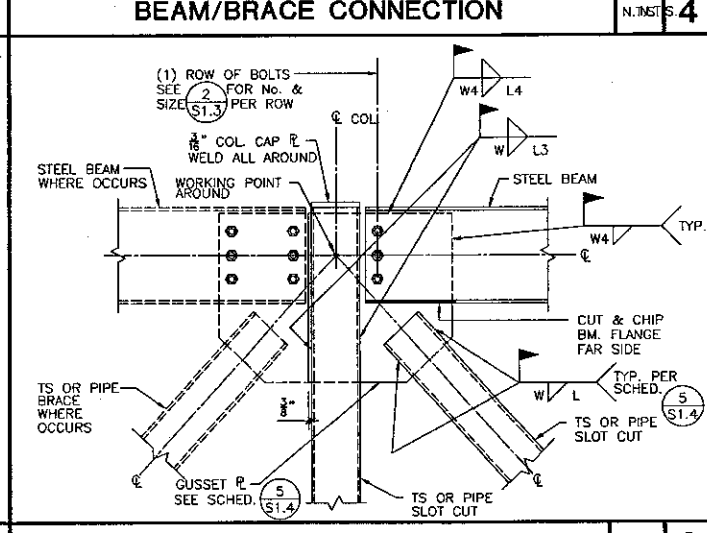
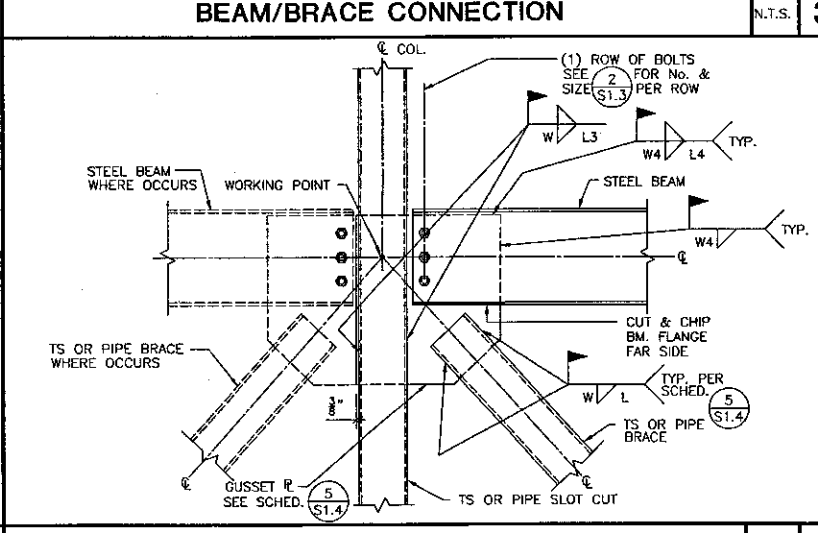
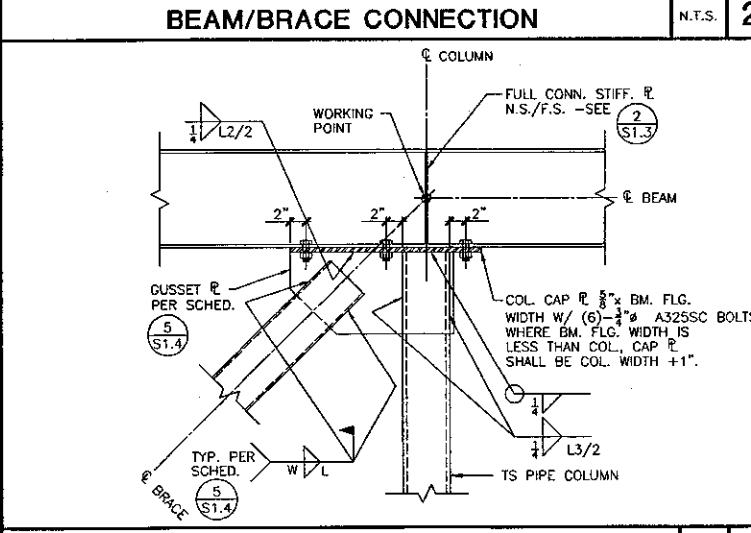
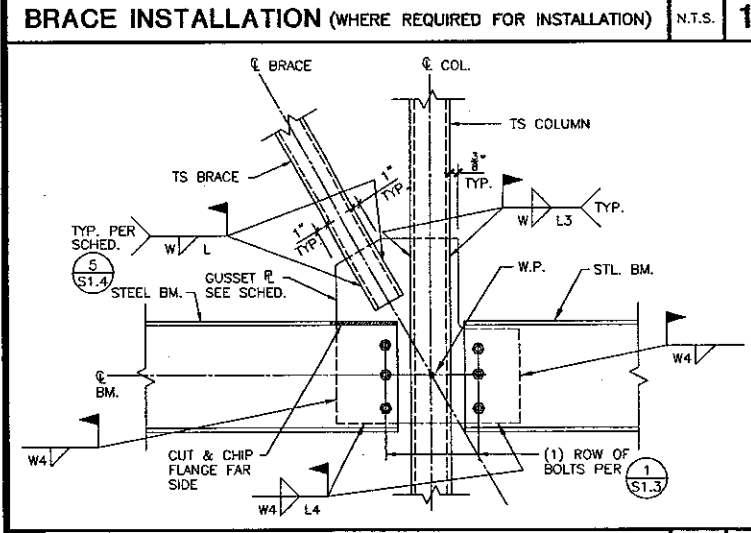
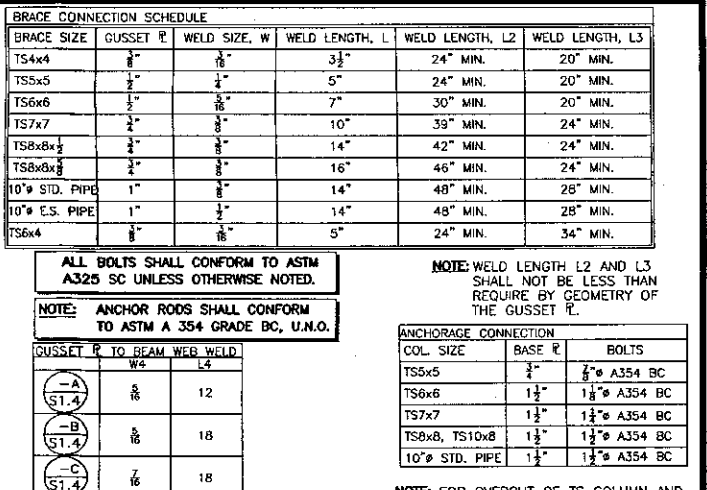
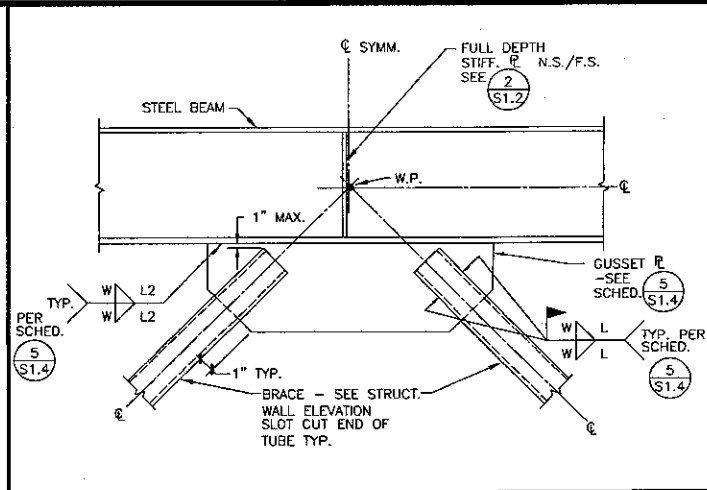
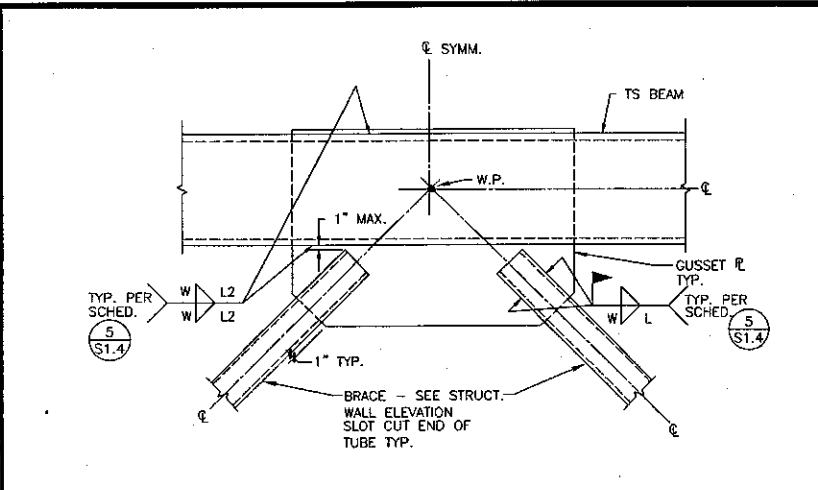
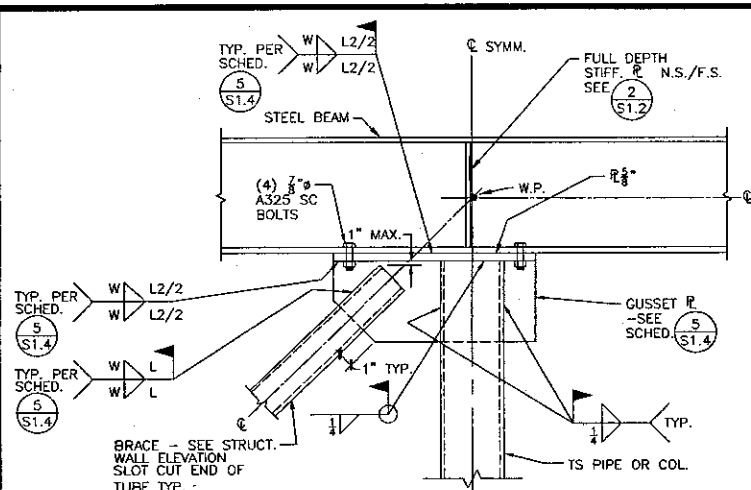
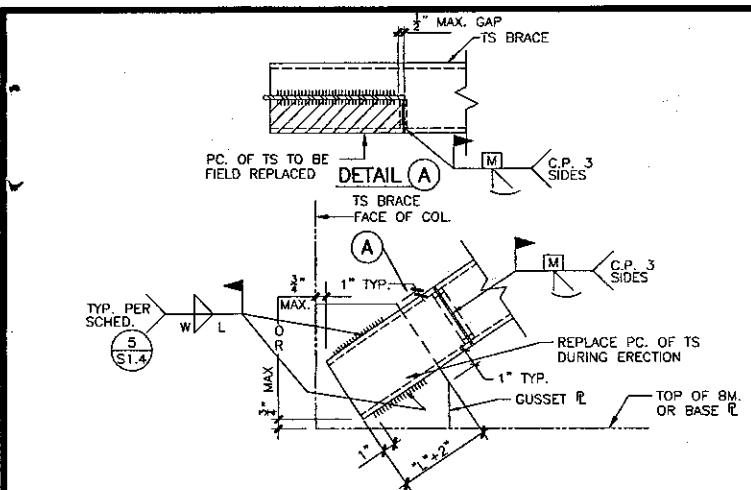
ALL BOLTS SHALL CONFORM TO ASTM A325 SC UNLESS OTHERWISE NOTED.
NOTE: ANCHOR RODS SHALL CONFORM TO ASTM A 304 GRADE BC, U.N.O.

NOTE: WELD LENGTH L2 AND L3 SHALL NOT BE LESS THAN REQUIRE BY GEOMETRY OF THE GUSSET R.

ANCHORAGE CONNECTION

GUSSET R TO BEAM WELD	COL. SIZE	BASE R	BOLTS
(A)	8"	12"	4" A325 BC
(B)	8"	18"	4" A325 BC
(C)	8"	18"	4" A325 BC
(D)	8"	30"	4" A325 BC

NOTE: FOR OVERCUT OF TS COLUMN AND TS BRACE - SEE DETAIL (S1.3)



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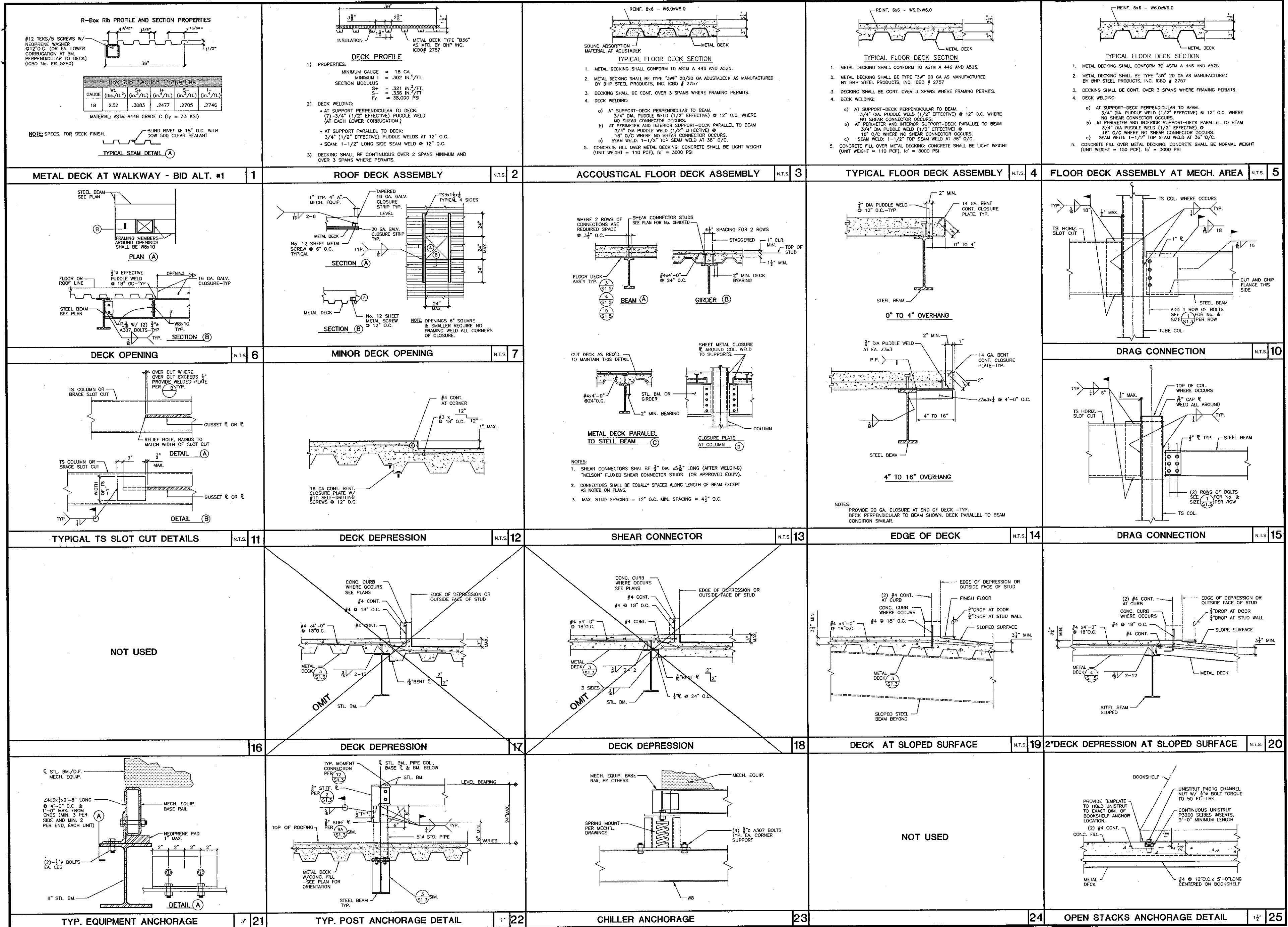
Professional Engineer Seal: No. 53073, Exp. 3-31-2008, State of California.

Architect Seal: No. 11701, State of California.

ENGINEER'S STAMP: DIVISION OF THE STATE ARCHITECT, FILE NUMBER: 56CT, APP# 03-104498.

NO.	DESCRIPTION	DATE	BY

DRAWN: H. VELASQUEZ
CHECKED: L. TSO/B. MURDOCK
DATE: 09/24/01
JOB NO.: 9318
SHEET TITLE: TYPICAL BRACE FRAME DETAILS
SHEET: S1.4



KRUGER BENSEN ZIEMER ARCHITECTS, INC.
 30 W. ARRELAGA SANTA BARBARA, CA 93101
 805/963-1728

STEVE DOWTY, A.I.A.
 PRINCIPAL IN CHARGE

THIERRY H. CASSAN
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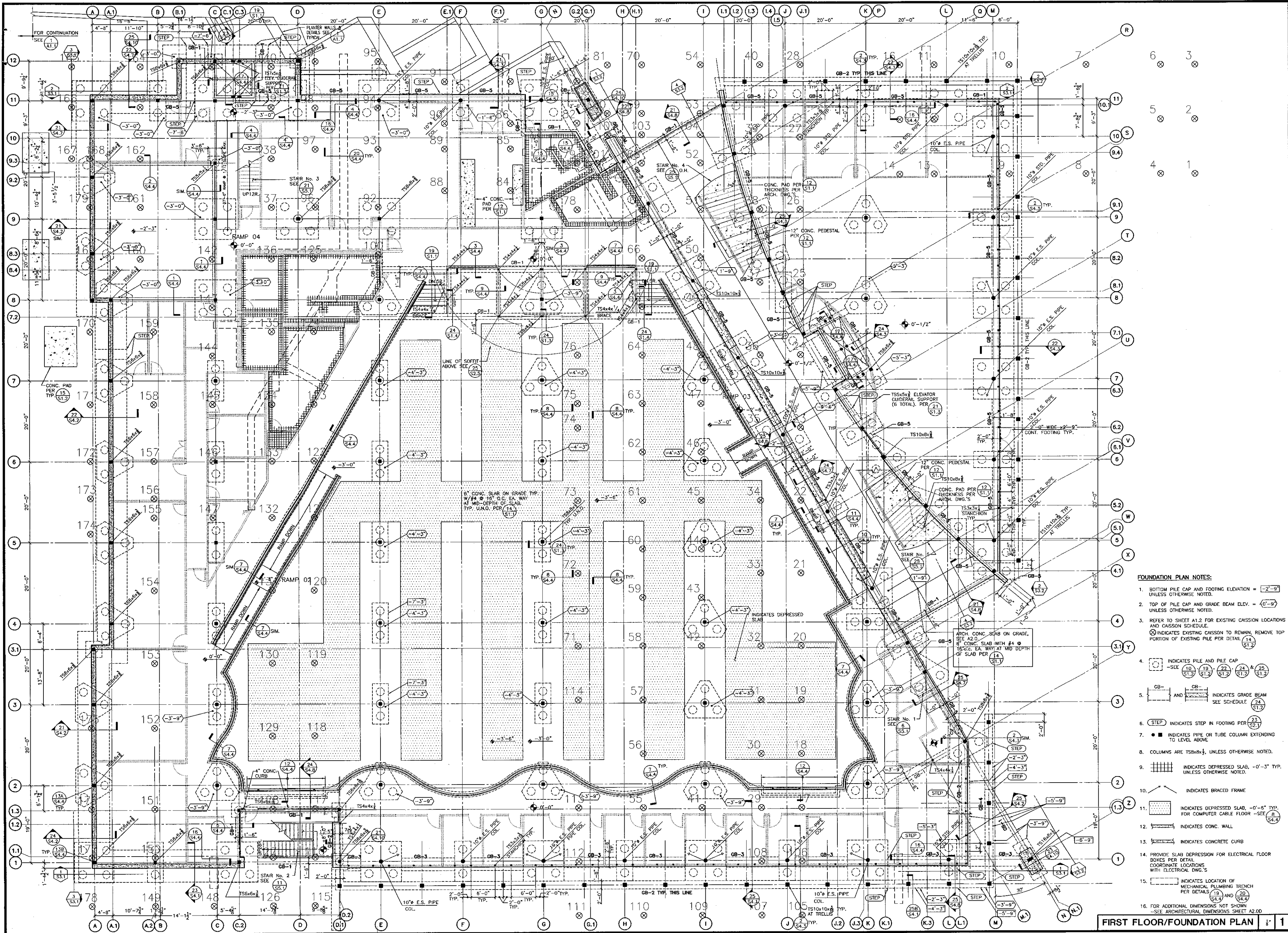
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 Ren. 11/01
 STATE OF CALIFORNIA

IDENTIFICATION STAMP
 DIVISION OF THE STATE ARCHITECT
 FILE NUMBER: 56C1
 APPL 03-104498
 AC FLS SS
 DATE 11/9/11

NO.	DESCRIPTION	DATE	BY

TYPICAL METAL DECK DETAILS

S1.5



- FOUNDATION PLAN NOTES:**
1. BOTTOM PILE CAP AND FOOTING ELEVATION = $-2'-9"$ UNLESS OTHERWISE NOTED.
 2. TOP OF PILE CAP AND GRADE BEAM ELEV. = $0'-0"$ UNLESS OTHERWISE NOTED.
 3. REFER TO SHEET A1.2 FOR EXISTING CAISSON LOCATIONS AND CAISSON SCHEDULE.
 (X) INDICATES EXISTING CAISSON TO REMAIN, REMOVE TOP PORTION OF EXISTING PILE PER DETAIL (14) (S1.7)
 4. (X) INDICATES PILE AND PILE CAP - SEE (10) (S1.2), (11) (S1.2), (12) (S1.2), (13) (S1.2), (14) (S1.2), (15) (S1.2)
 5. (GB-1) AND (GB-2) INDICATES GRADE BEAM SEE SCHEDULE (24) (S1.7)
 6. (STEP) INDICATES STEP IN FOOTING PER (23) (S1.7)
 7. (●) INDICATES PIPE OR TUBE COLUMN EXTENDING TO LEVEL ABOVE.
 8. COLUMNS ARE $TS8x8x\frac{1}{2}$, UNLESS OTHERWISE NOTED.
 9. (Hatched) INDICATES DEPRESSED SLAB, $-0'-3"$ TYP. UNLESS OTHERWISE NOTED.
 10. (Dashed) INDICATES BRACED FRAME
 11. (Dotted) INDICATES DEPRESSED SLAB, $-0'-6"$ TYP. FOR COMPUTER CABLE FLOOR - SEE (8) (S4.4)
 12. (Double line) INDICATES CONC. WALL
 13. (Single line) INDICATES CONCRETE CURB
 14. PROVIDE SLAB DEPRESSION FOR ELECTRICAL FLOOR BOXES PER DETAIL COORDINATE LOCATIONS WITH ELECTRICAL DWG.'S
 15. (Dashed line) INDICATES LOCATION OF MECHANICAL PLUMBING TRENCH PER DETAILS (19) AND (20) (S4.4)
 16. FOR ADDITIONAL DIMENSIONS NOT SHOWN - SEE ARCHITECTURAL DIMENSIONS SHEET A2.00

FIRST FLOOR/FOUNDATION PLAN 1

KRUGER BENSEN ZIEMER ARCHITECTS, INC.
 30 W. ANTELOPE AVENUE
 SANTA BARBARA, CA 93101
 805/963.1726

STEVE DOWDY, A.I.A.
 PRINCIPAL IN CHARGE

THIERRY H. CASSAN
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 4667 Telegraph Road
 Ventura, CA 93003

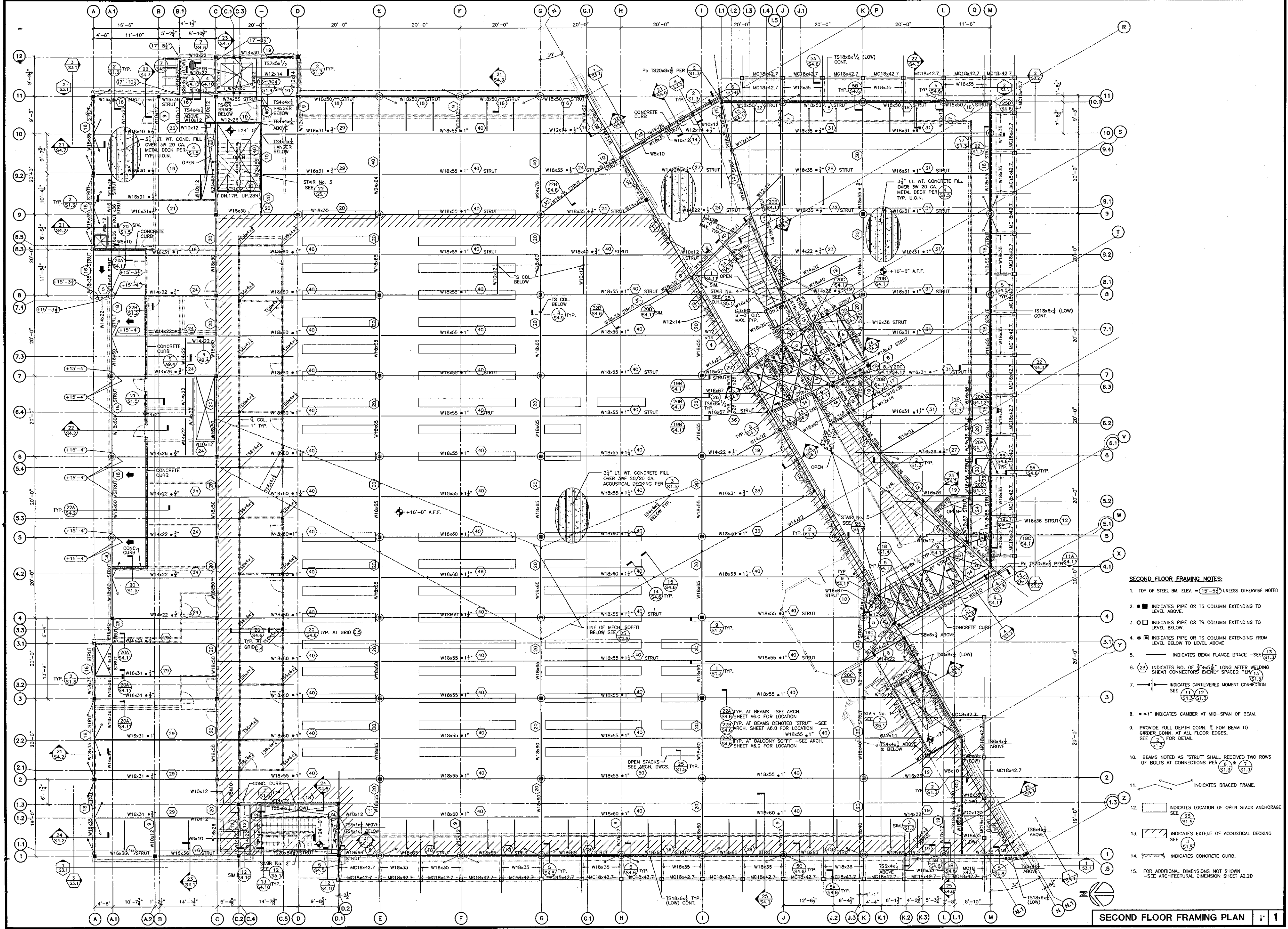
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 No. 53073
 Exp. 3-31-2005
 DIVISION OF THE STATE ARCHITECT

ARCHITECT'S STAMP
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 DIVISION OF THE STATE ARCHITECT
 FILE NUMBER: 56C1
 APPR. 03-104498
 DATE: 11/18/01

NO.	DESCRIPTION	DATE	BY

DRWN: H. VELASQUEZ
 CHECKED: L. TSO/B. MURDOCK
 DATE: 09/24/01
 JOB NO.: 9318
 SHEET TITLE: FIRST FLOOR/FOUNDATION PLAN
 SHEET: S2.1



- SECOND FLOOR FRAMING NOTES:**
1. TOP OF STEEL BM. ELEV. = (15'-5 1/2") UNLESS OTHERWISE NOTED
 2. (Symbol) INDICATES PIPE OR TS COLUMN EXTENDING TO LEVEL ABOVE.
 3. (Symbol) INDICATES PIPE OR TS COLUMN EXTENDING TO LEVEL BELOW.
 4. (Symbol) INDICATES PIPE OR TS COLUMN EXTENDING FROM LEVEL BELOW TO LEVEL ABOVE.
 5. (Symbol) INDICATES BEAM FLANGE BRACE - SEE (S1.3/S1.3)
 6. (Symbol) INDICATES NO. OF 3"x5 1/2" LONG AFTER WELDING SHEAR CONNECTORS EVENLY SPACED PER (S1.3/S1.3)
 7. (Symbol) INDICATES CAMBERED MOMENT CONNECTION SEE (S1.3/S1.3)
 8. (Symbol) INDICATES CAMBER AT MID-SPAN OF BEAM.
 9. PROVIDE FULL DEPTH CONN. FOR BEAM TO ORDER CONN. AT ALL FLOOR EDGES. SEE (S1.3) FOR DETAIL
 10. BEAMS NOTED AS "STRUT" SHALL RECEIVE TWO ROWS OF BOLTS AT CONNECTIONS PER (S1.3) & (S1.3)
 11. (Symbol) INDICATES BRACED FRAME.
 12. (Symbol) INDICATES LOCATION OF OPEN STACK ANCHORAGE SEE (S1.3/S1.3)
 13. (Symbol) INDICATES EXTENT OF ACOUSTICAL DECKING SEE (S1.3)
 14. (Symbol) INDICATES CONCRETE CURB.
 15. FOR ADDITIONAL DIMENSIONS NOT SHOWN - SEE ARCHITECTURAL DIMENSION SHEET A2.20

SECOND FLOOR FRAMING PLAN 1

KRUGER BENSEN ZIEMER ARCHITECTS, INC.
30 W. ARRELLAGA, SANTA BARBARA, CA 93101
805/963.1726

STEVE DOWDY, A.I.A.
PRINCIPAL IN CHARGE

THIERRY H. CASSAN
PROJECT DESIGNER

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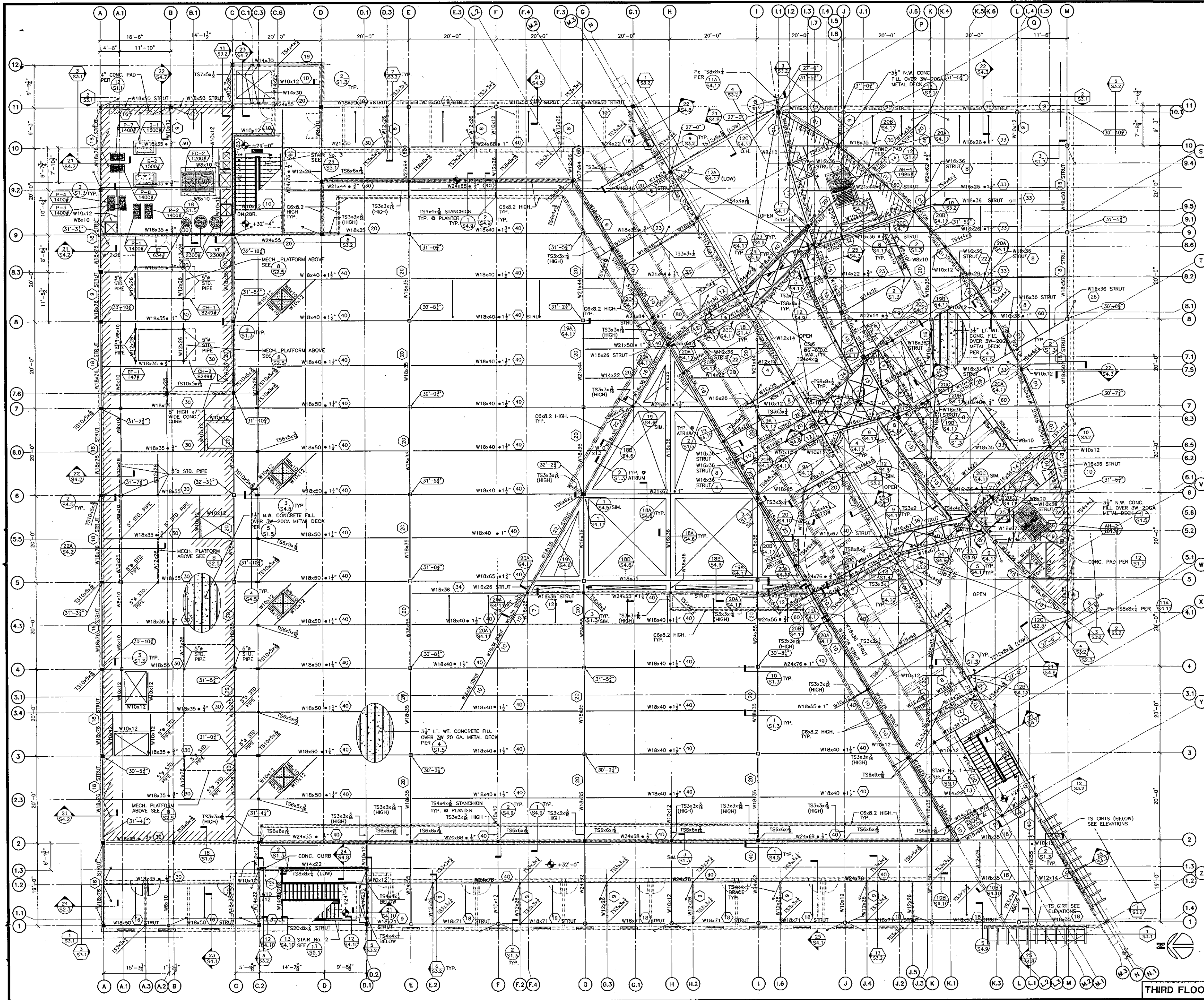
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No. S 3073
Exp. 3-31-2005
Ren. 11/01

ARCHITECT'S STAMP
No. S 11524
Ren. 11/01

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
FILE NUMBER: 5601
APPL 03-104498
AC: _____ FLS: _____ SS: _____
DATE: _____ BY: _____


NO.	DESCRIPTION	DATE	BY

DRAWN: H. VELASQUEZ
CHECKED: L. TSO/B. MURDOCK
DATE: 09/24/01
JOB NO.: 9318
SHEET TITLE:
SECOND FLOOR FRAMING PLAN
SHEET
S2.2



- THIRD FLOOR/LOW ROOF NOTES:**
- TOP OF STEEL BM. ELEV. = $(31'-5 1/2")$ UNLESS OTHERWISE NOTED.
 - INDICATES PIPE OR TS COLUMN EXTENDING TO LEVEL ABOVE.
 - INDICATES PIPE OR TS COLUMN EXTENDING TO LEVEL BELOW.
 - ⊕ INDICATES PIPE OR TS COLUMN EXTENDING FROM LEVEL BELOW TO LEVEL ABOVE.
 - INDICATES BEAM FLANGE BRACE - SEE 1.3 (ST.1.3).
 - ⊕ INDICATES NO. OF 3/4" x 5/8" LONG(AFTER WELDING) SHEAR CONNECTORS EVENLY SPACED - PER 1.3 (ST.1.3).
 - INDICATES CONTINUED MOMENT CONNECTION - SEE 11.12 (ST.1.12).
 - =1" INDICATES CAMBER AT MID-SPAN OF BEAM.
 - PROVIDE FULL DEPTH CONN. R FOR BEAM TO GIRDER CONN. AT ALL FLOOR EDGES. SEE 2 FOR DETAIL.
 - BEAMS NOTED AS "STRUT" SHALL RECEIVE TWO ROWS OF BOLTS AT CONNECTIONS PER 6.7 (ST.1.3).
 - INDICATES BRACED FRAME.
 - INDICATES EXTENT OF 3/4" N.W. CONCRETE FILL OVER 3" W. METAL DECK PER 1.3 (ST.1.3).
 - INDICATES 6" CONCRETE CURB, TYP. U.N.O.
 - INDICATES CONCRETE PAD PER DETAIL 12 (ST.1.1).
 - FOR ADDITIONAL DIMENSIONS NOT SHOWN, SEE ARCHITECTURAL DIMENSION SHEET A2.3D.
 - INDICATES MECHANICAL UNIT AND MAX. OPERATING WEIGHT.

THIRD FLOOR/LOW ROOF FRAMING PLAN 1



KRUGER ARCHITECTS
 35 W. ARREDAGA
 805/963.1726

ZIEMER ARCHITECTS, INC.
 AIA
 SANTA BARBARA, CA
 805/963.1726

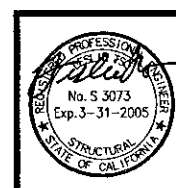
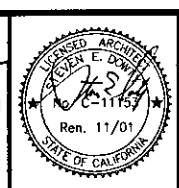
STEVE DOWTY, A.I.A.
 PRINCIPAL IN CHARGE

THERRY H. CASSAN
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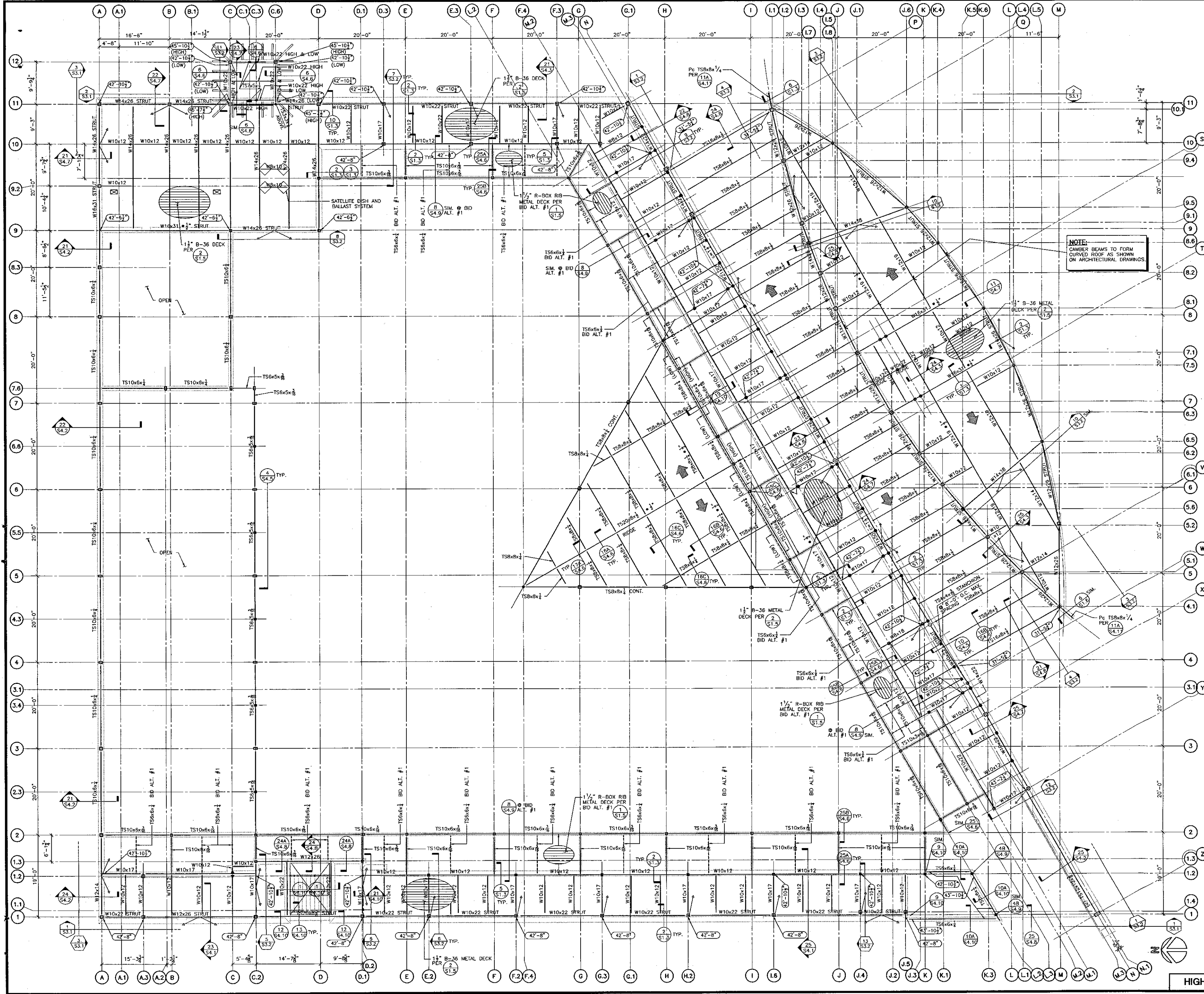



ENGINEER'S STAMP **ARCHITECT'S STAMP**

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 DIVISION OF THE STATE ARCHITECT
 FILE NUMBER: 5661
 APP# 03-104498
 AC _____ FLS _____ SS _____
 DATE _____

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DRAWN: H. VELASQUEZ/C. VARELA
 CHECKED: L. TSO/B. MURDOCK
 DATE: 09/24/01
 JOB NO.: 9318
 SHEET TITLE:
THIRD FLOOR/LOW ROOF FRAMING PLAN
 SHEET: **S2.3**



NOTE:
CAMBER BEAMS TO FORM CURVED ROOF AS SHOWN ON ARCHITECTURAL DRAWINGS.

- ROOF FRAMING PLAN NOTES:**
1. TOP OF STEEL BM. ELEV. = (VARIES) UNLESS OTHERWISE NOTED
 2. INDICATES TS COLUMN EXTENDING TO LEVEL BELOW.
 3. INDICATES TS COLUMN EXTENDING FROM LEVEL BELOW TO LEVEL ABOVE.
 4. INDICATES BEAM FLANGE BRACE - SEE 1.3, 1.3.1
 5. INDICATES CANTILEVERED MOMENT CONNECTION SEE 11.12, 11.12.1, 11.12.2
 6. c=1" INDICATES CAMBER AT MID-SPAN OF BEAM.
 7. PROVIDE FULL DEPTH CONN. R. FOR BEAM TO GIRDER CONN. AT ALL ROOF EDGES. SEE 2 FOR DETAIL
 8. BEAMS NOTED AS "STRUT" SHALL RECEIVE TWO ROWS OF BOLTS AT CONNECTIONS PER 6 & 7
 9. INDICATES BRACED FRAME.
 10. INDICATES DIRECTION OF SLOPE.
 11. FOR ADDITIONAL DIMENSIONS NOT SHOWN, SEE ARCHITECTURAL DIMENSION SHEET A2.3D
 12. INDICATES BID ALT. #1

HIGH ROOF FRAMING PLAN 1



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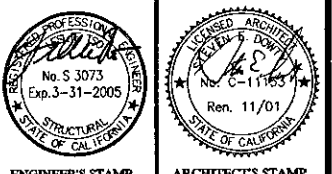
STEVE DOWTY, A.I.A.
PRINCIPAL IN CHARGE

THERRY H. CASSAN
PROJECT DESIGNER

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KANDA AND TSO ASSOCIATES
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Ventura, CA 93003
4667 Telegraph Road

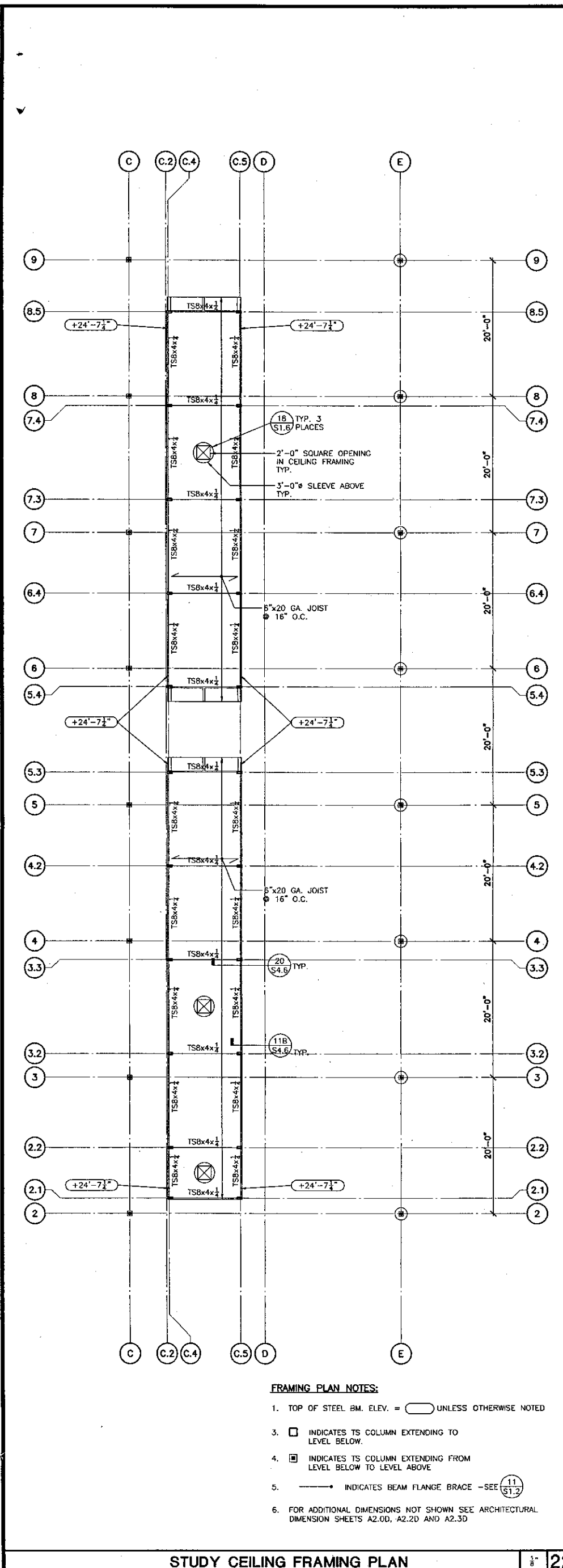


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DIVISION OF THE STATE ARCHITECT
FILE NUMBER: SEC1
APPL 03-104498
DATE: 11/8/01

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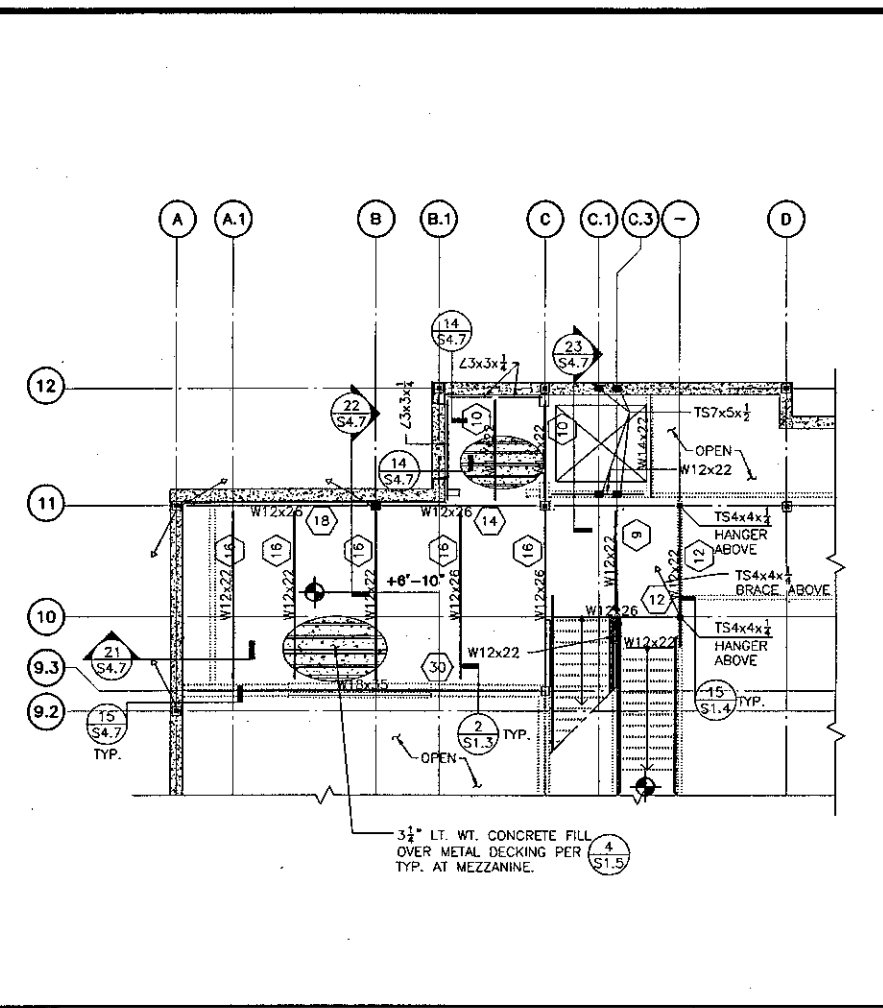
REVISION

DRAWN: H. VELASQUEZ
CHECKED: L. TSO/B. MURDOCK
DATE: 09/24/01
JOB NO.: 9318
SHEET TITLE: HIGH ROOF FRAMING PLAN
SHEET: S2.4



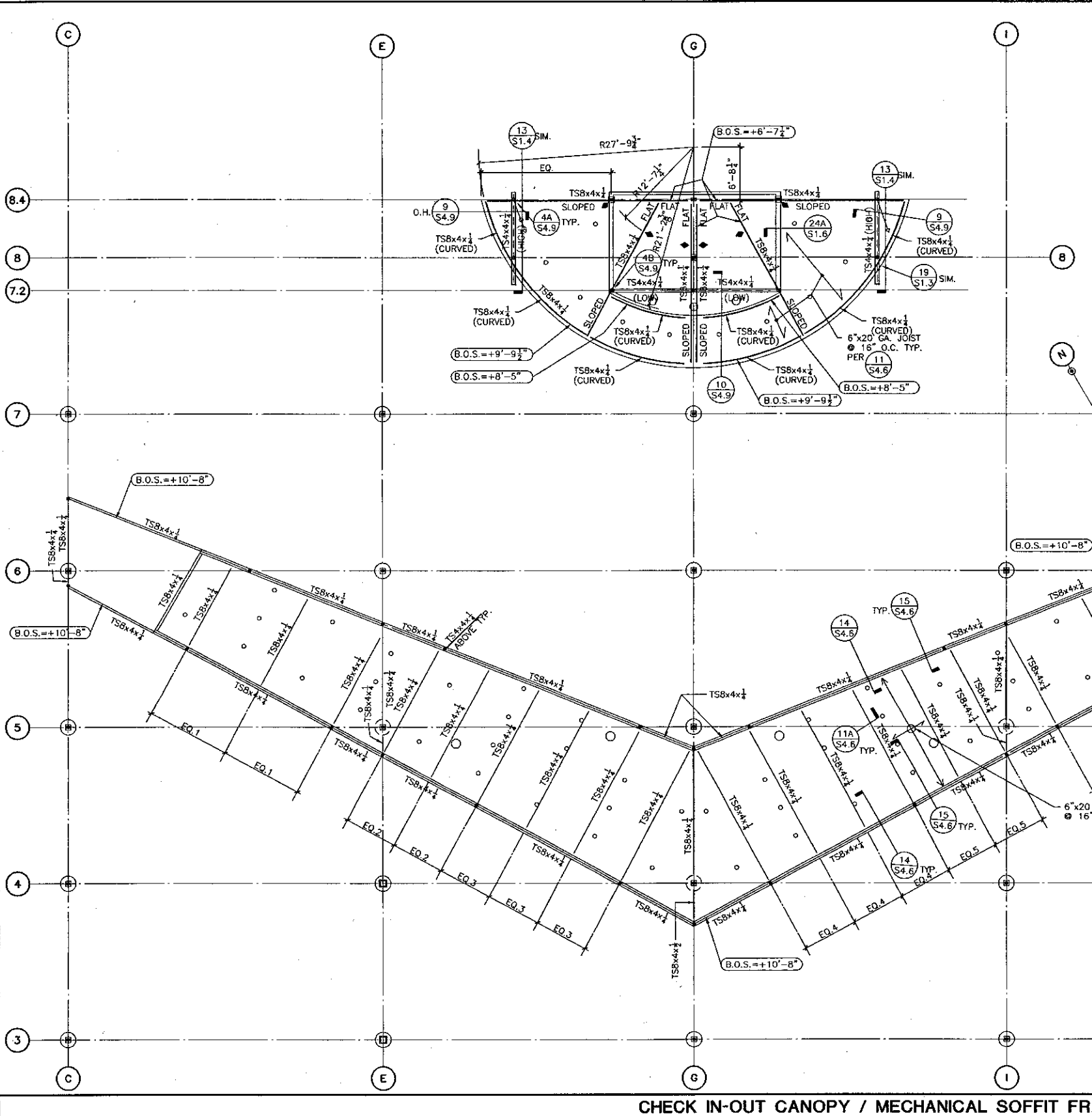
- FRAMING PLAN NOTES:**
- TOP OF STEEL BM. ELEV. = \square UNLESS OTHERWISE NOTED
 - \square INDICATES TS COLUMN EXTENDING TO LEVEL BELOW.
 - \square INDICATES TS COLUMN EXTENDING FROM LEVEL BELOW TO LEVEL ABOVE
 - \square INDICATES BEAM FLANGE BRACE - SEE $\textcircled{11}$ S1.2
 - FOR ADDITIONAL DIMENSIONS NOT SHOWN SEE ARCHITECTURAL DIMENSION SHEETS A2.0D, A2.2D AND A2.3D

STUDY CEILING FRAMING PLAN 22



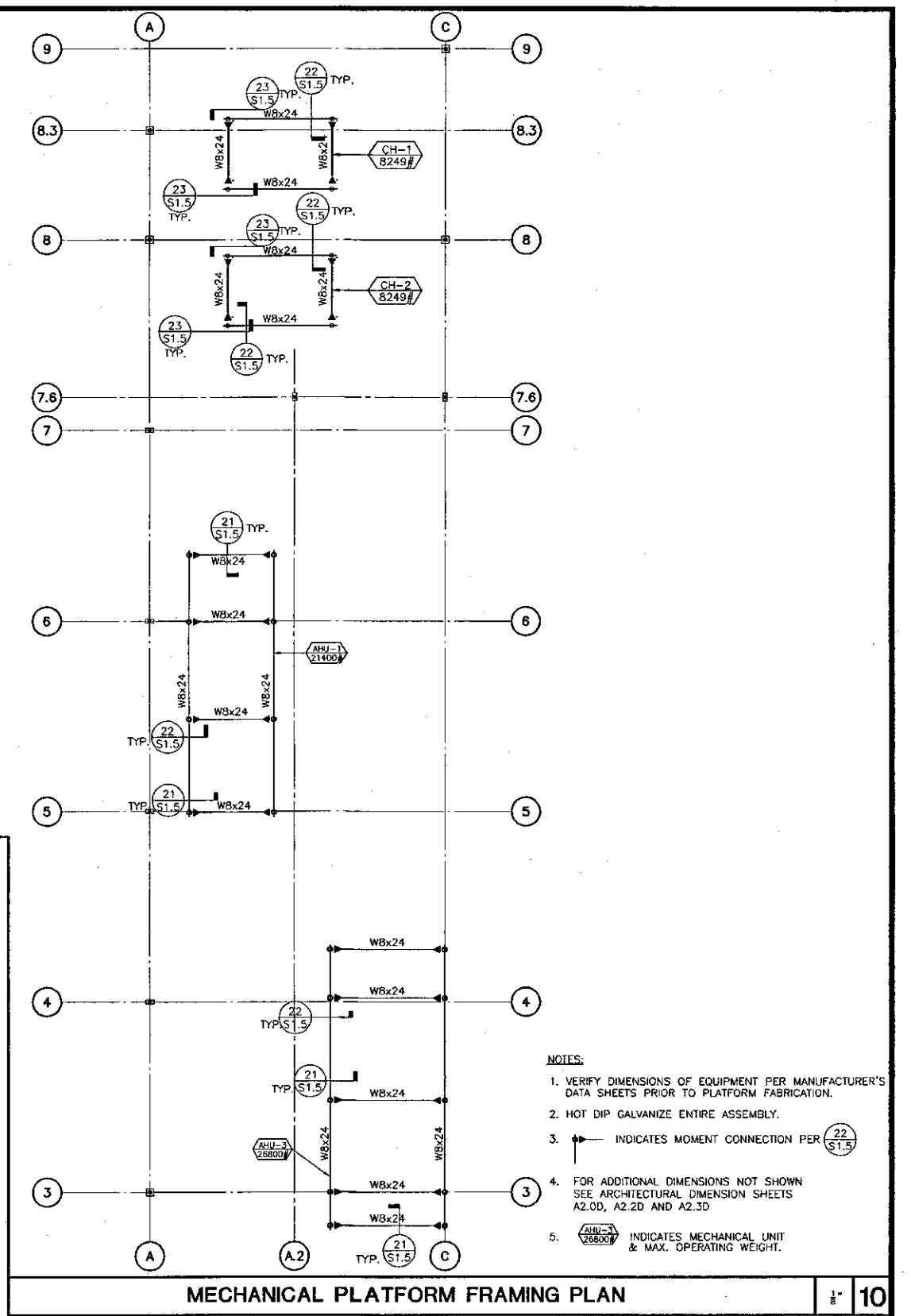
- MEZZANINE FRAMING PLAN NOTES:**
- TOP OF STEEL BM. ELEV. = \square UNLESS OTHERWISE NOTED
 - \bullet INDICATES PIPE OR TS COLUMN EXTENDING TO LEVEL ABOVE.
 - \square INDICATES PIPE OR TS COLUMN EXTENDING TO LEVEL BELOW.
 - \square INDICATES PIPE OR TS COLUMN EXTENDING FROM LEVEL BELOW TO LEVEL ABOVE
 - \rightarrow INDICATES BEAM FLANGE BRACE - SEE $\textcircled{13}$ S1.3
 - $\textcircled{76}$ INDICATES NO. OF $\frac{3}{4}$ "x4" LONG SHEAR CONNECTORS EVENLY SPACED
 - \rightarrow INDICATES CANTILEVERED MOMENT CONNECTION SEE $\textcircled{12}$ S1.3
 - \bullet -1" INDICATES CAMBER AT MID-SPAN OF BEAM.
 - PROVIDE FULL DEPTH CONN. $\textcircled{2}$ FOR BEAM TO GIRDER CONN. AT ALL FLOOR EDGES. SEE $\textcircled{2}$ FOR DETAIL
 - BEAMS NOTED AS "STRUT" SHALL RECEIVED TWO ROWS OF BOLTS AT CONNECTIONS PER $\textcircled{6}$ & $\textcircled{7}$ S1.3
 - \rightarrow INDICATES BRACED FRAME.
 - FOR ADDITIONAL DIMENSIONS NOT SHOWN SEE ARCHITECTURAL DIMENSIONS ON SHEETS A2.0D, A2.2D AND A2.3D

MEZZANINE FRAMING PLAN 8



- FRAMING PLAN NOTES:**
- TOP OF STEEL BM. ELEV. = \square UNLESS OTHERWISE NOTED
 - BOTTOM OF STEEL BM. ELEV. = \square UNLESS OTHERWISE NOTED
 - \square INDICATES TS COLUMN EXTENDING TO LEVEL BELOW.
 - \square INDICATES TS COLUMN EXTENDING FROM LEVEL BELOW TO LEVEL ABOVE
 - \blacklozenge INDICATES BENT BEAM PER $\textcircled{8}$ S1.5
 - FOR ADDITIONAL DIMENSIONS NOT SHOWN SEE ARCHITECTURAL DIMENSION SHEETS A2.0D, A2.2D AND A2.3D

CHECK IN-OUT CANOPY / MECHANICAL SOFFIT FRAMING PLAN 25



- NOTES:**
- VERIFY DIMENSIONS OF EQUIPMENT PER MANUFACTURER'S DATA SHEETS PRIOR TO PLATFORM FABRICATION.
 - HOT DIP GALVANIZE ENTIRE ASSEMBLY.
 - \rightarrow INDICATES MOMENT CONNECTION PER $\textcircled{22}$ S1.5
 - FOR ADDITIONAL DIMENSIONS NOT SHOWN SEE ARCHITECTURAL DIMENSION SHEETS A2.0D, A2.2D AND A2.3D
 - $\textcircled{21400}$ INDICATES MECHANICAL UNIT & MAX. OPERATING WEIGHT.

MECHANICAL PLATFORM FRAMING PLAN 10

KRUGER BENSEN ZIEMER ARCHITECTS, INC.
 30 W. ARRELLA CA. SANTA BARBARA, CA 93101
STEVE DOWDY, A.I.A.
 PRINCIPAL IN CHARGE
THIERRY H. CASSAN
 PROJECT DESIGNER

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 KANDA AND TSO ASSOCIATES
 CONSULTING STRUCTURAL ENGINEERS
 511 MISSION STREET
 SOUTH PASADENA, CA 91103-3035
 TEL: (626) 441-1211
 FAX: (626) 441-1011

VENTURA COLLEGE LEARNING RESOURCES CENTER
 Ventura County Community College District
 Ventura, CA 93003
 4667 Telegraph Road

ENGINEER'S STAMP
 No. S 3013
 Exp. 3-31-2008
 State of California

ARCHITECT'S STAMP
 No. C-111157
 Ren. 11/01
 State of California

IDENTIFICATION STAMP
 DIVISION OF THE STATE ARCHITECT
 FILE NUMBER: S6C1
 APPL 03-104498
 AC FLS SS
 DATE 11/8/01

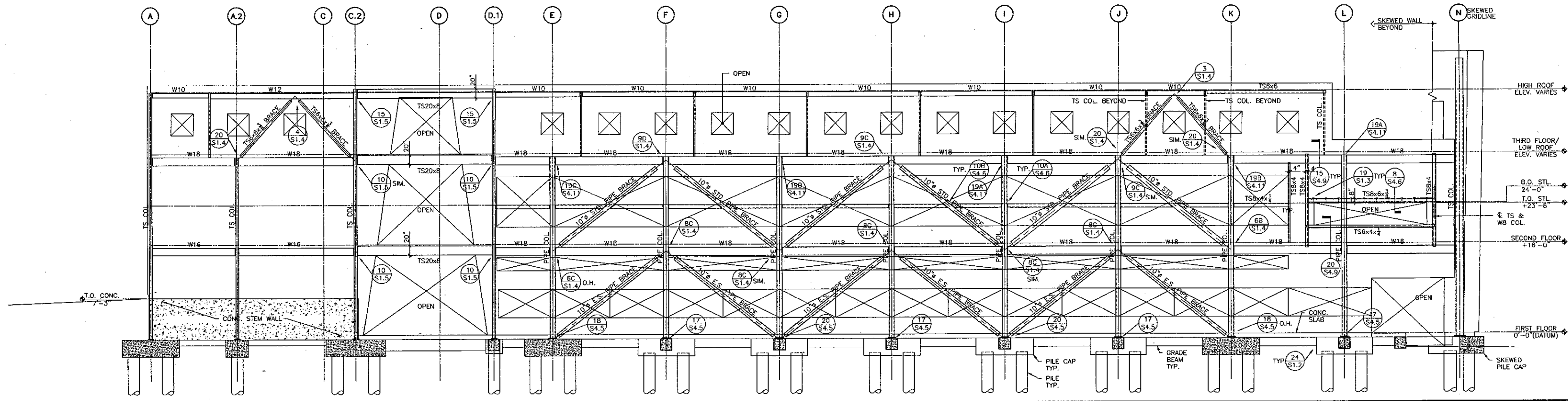
NO.	DESCRIPTION	DATE	BY

MISCELLANEOUS FRAMING PLAN

SHEET

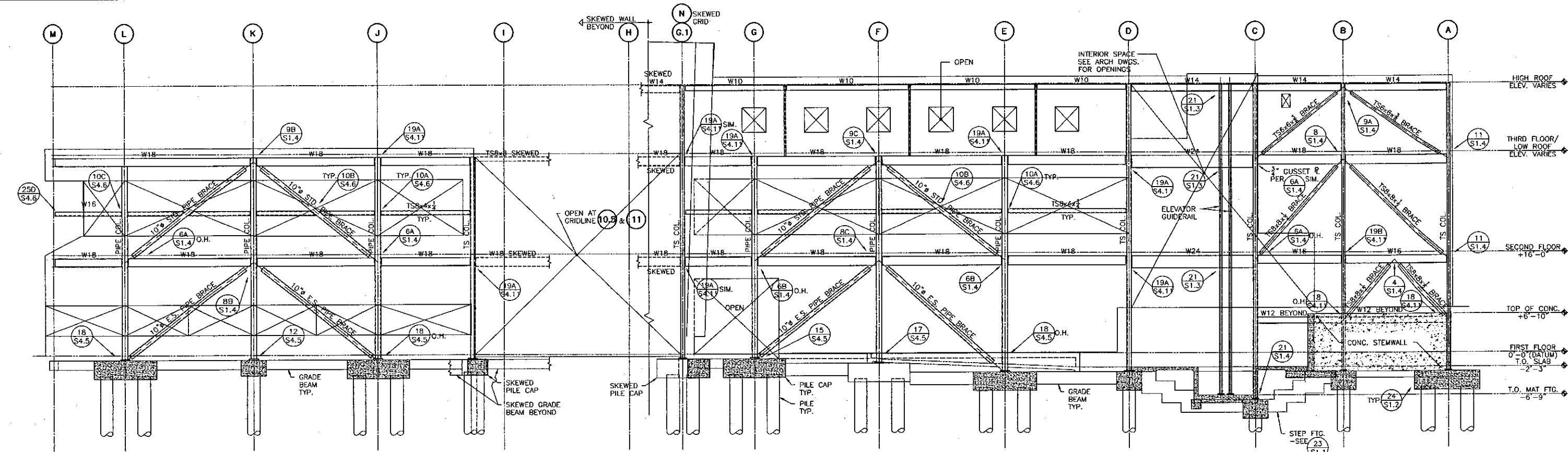
S2.5

DRAWN: C. VARELA
 CHECKED: B. MURDOCK
 DATE: 09/24/01
 JOB NO.: 9318
 SHEET TITLE: MISCELLANEOUS FRAMING PLAN



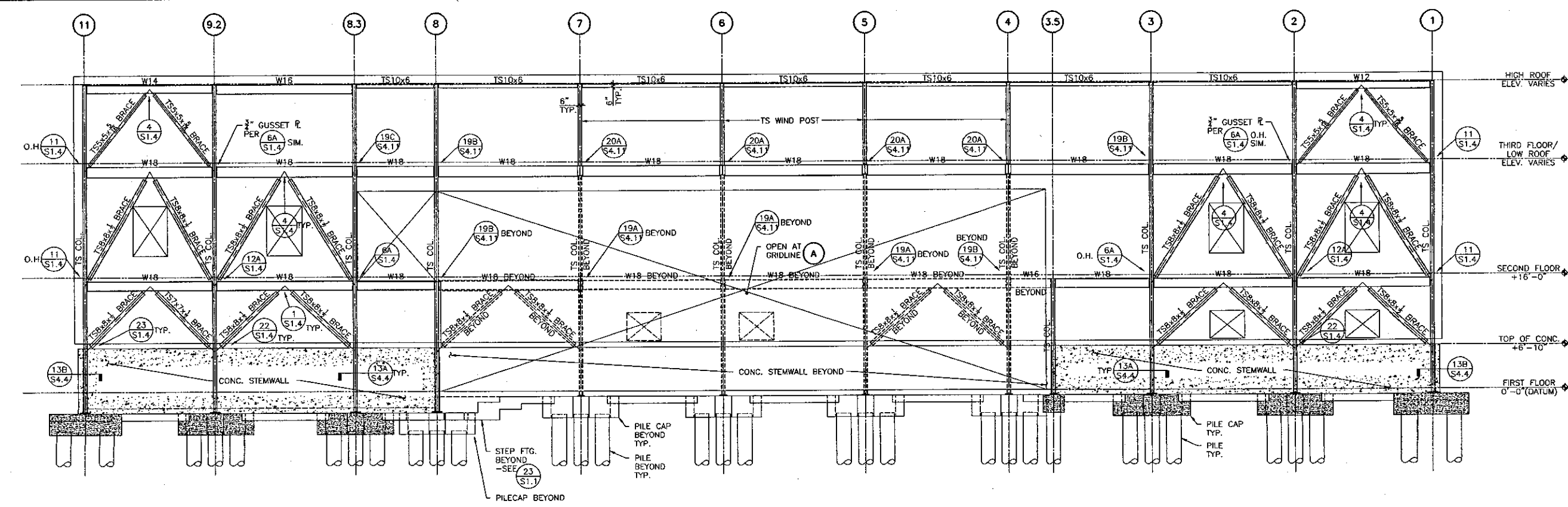
WEST STRUCTURAL ELEVATION (AT GRIDLINE 1) LOOKING EAST

1



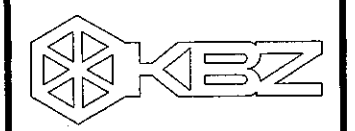
EAST STRUCTURAL ELEVATION (AT GRIDLINE 10.9 & 11) LOOKING WEST

2



NORTH STRUCTURAL ELEVATION (AT GRIDLINE A & A1) LOOKING SOUTH

3



KRUGER BENSEN ZIEMER ARCHITECTS, INC.
30 W. ARRELLA CA. 93101
SANTA BARBARA, CA 93101

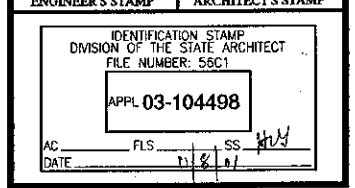
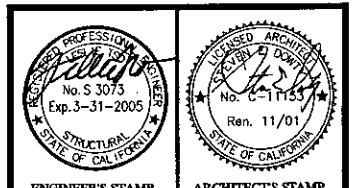
STEVE DOWDY, A.I.A.
PRINCIPAL IN CHARGE

THIERRY H. CASSAN
PROJECT DESIGNER

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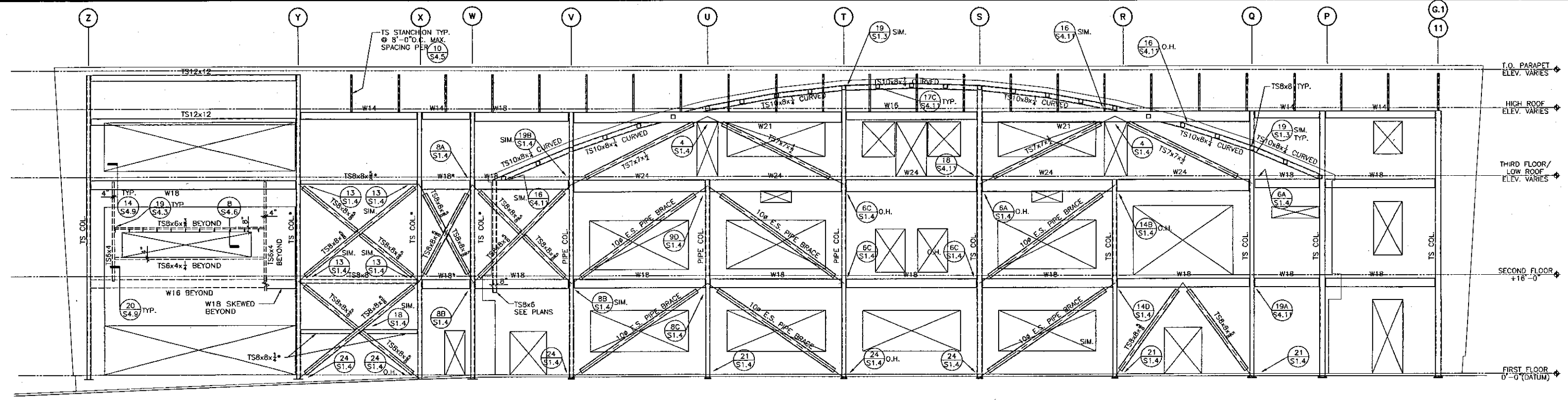
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CONSULTING STRUCTURAL ENGINEERS
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SOUTH PASADENA, CA 91103-3035
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LEARNING RESOURCES CENTER
Ventura County Community College District
4667 Telegraph Road
Ventura, CA 93003

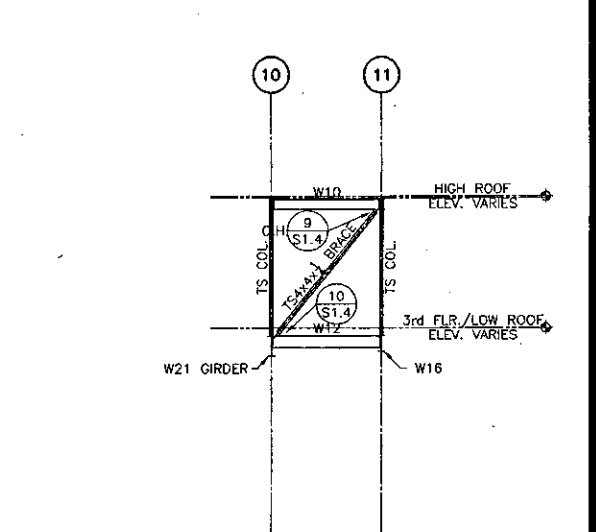
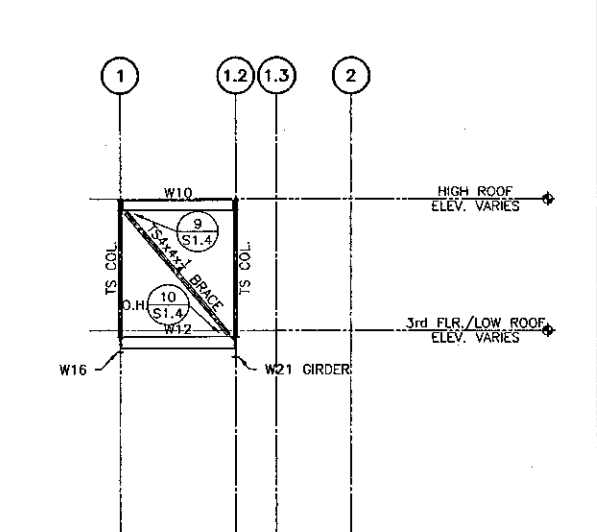
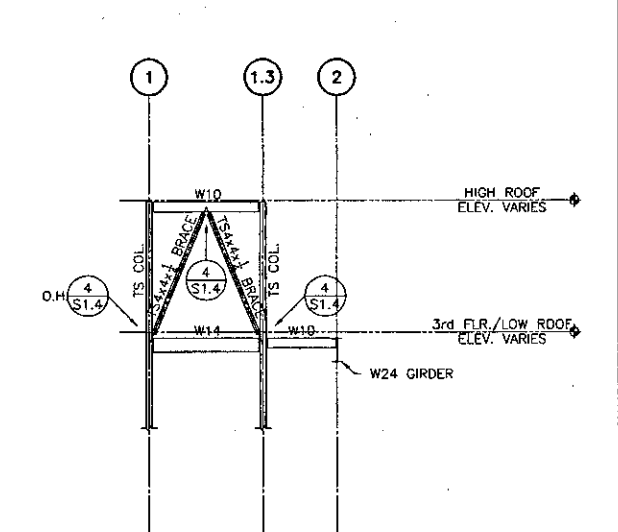
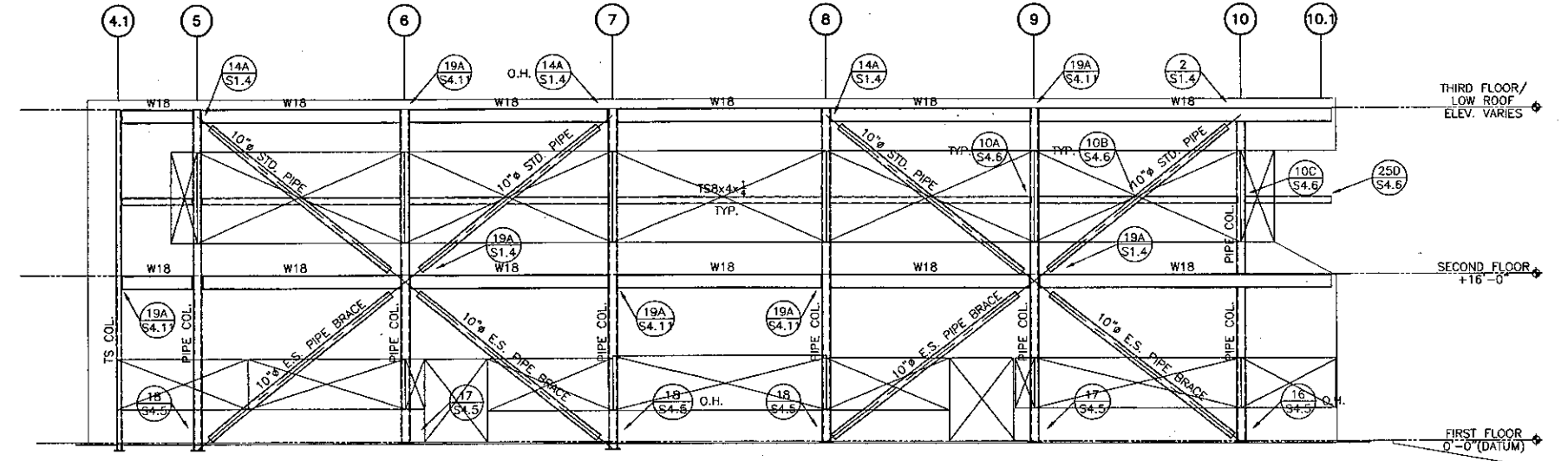


NO.	DESCRIPTION	DATE	BY

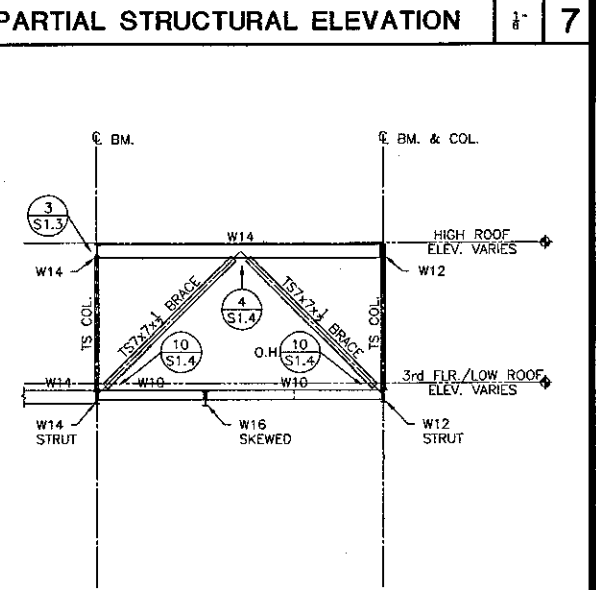
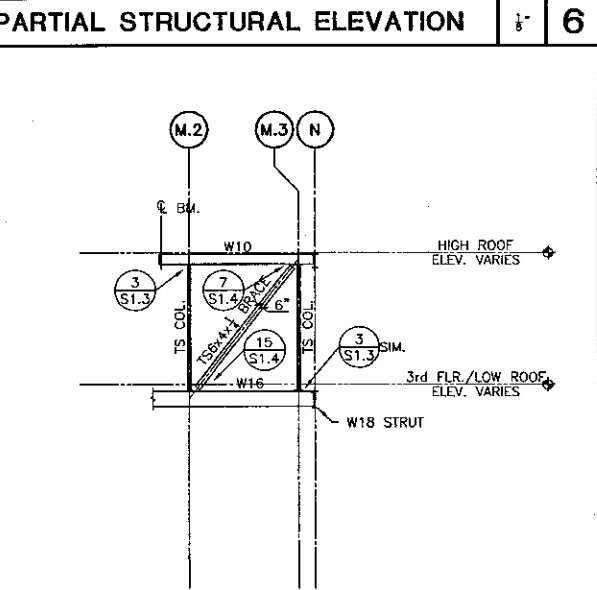
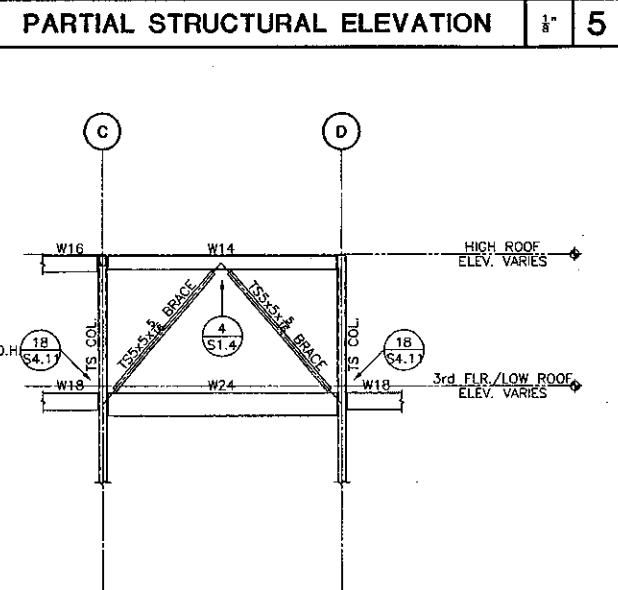
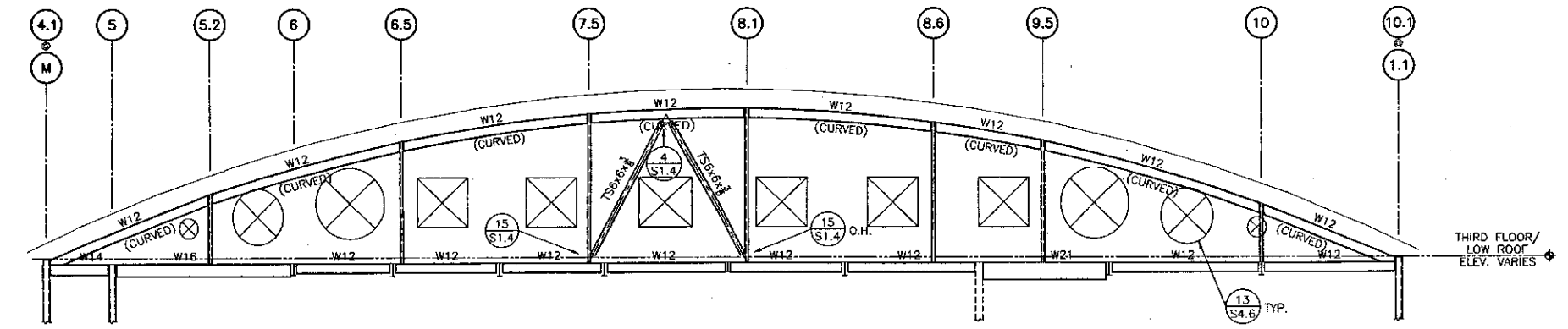
DRAWN	K. CONNER
CHECKED	L. TSO/B. MURDOCK
DATE	09/24/01
JOB NO.	9318
SHEET TITLE	STRUCTURAL ELEVATIONS
SHEET	S3.1



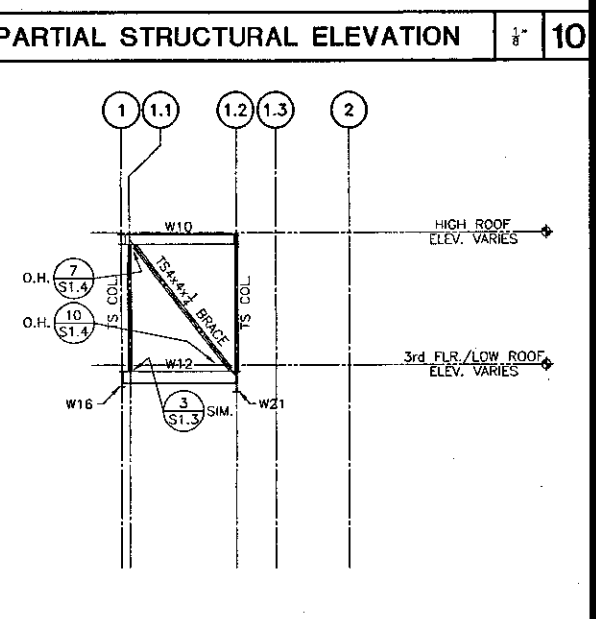
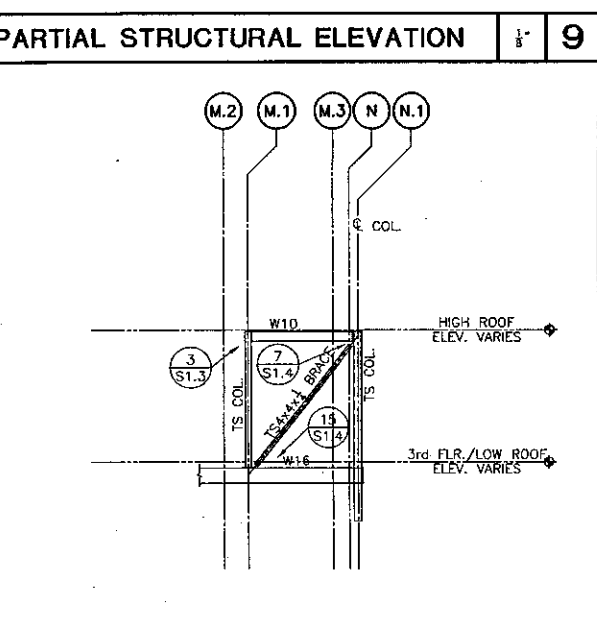
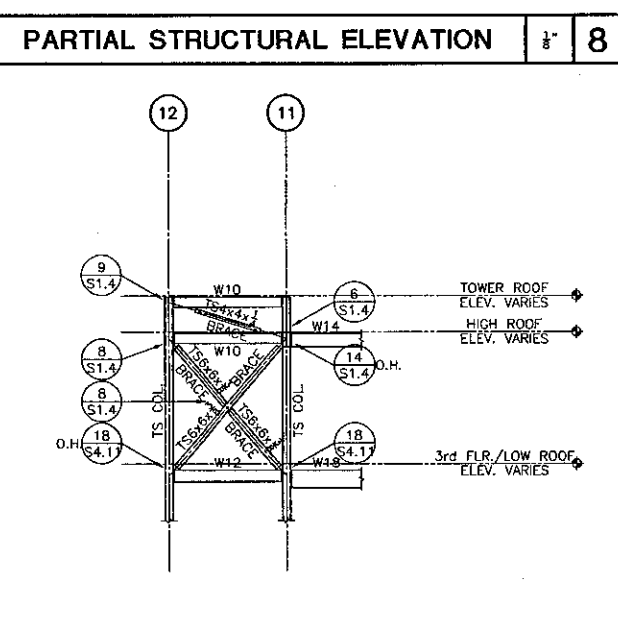
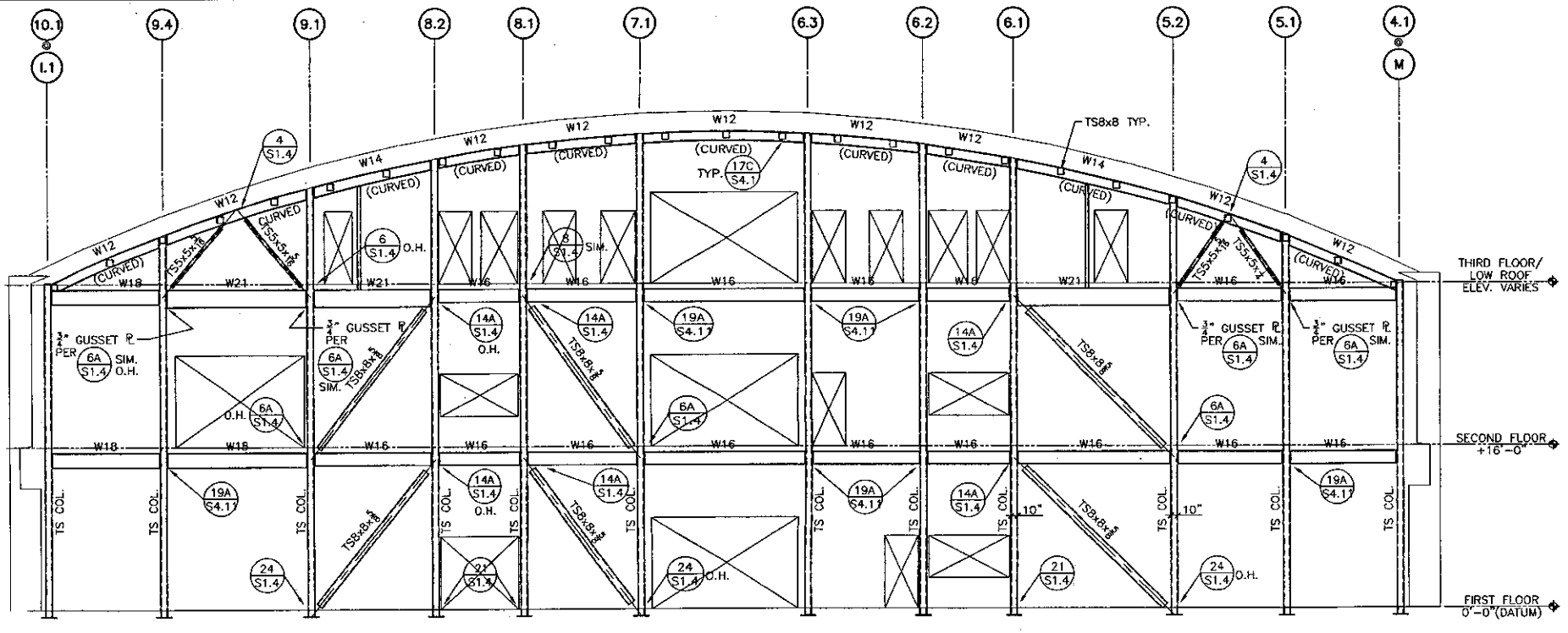
SOUTHEAST STRUCTURAL ELEVATION (AT GRIDLINE (N) LOOKING NORTH)



SOUTH STRUCTURAL ELEVATION (AT GRIDLINE (M) LOOKING NORTH)



STRUCTURAL ELEVATION



STRUCTURAL ELEVATION

KRUGER BENSON ZIEMER ARCHITECTS, INC.
 30 W. ARRILLAGA, SANTA BARBARA, CA 93101
 805/963.1726

STEVE DOWDY, A.I.A.
 PRINCIPAL IN CHARGE

THIERRY H. CASSAN
 PROJECT DESIGNER

KANDA | TSO
 KANDA AND TSO ASSOCIATES
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 511 MISSION STREET
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 TEL: (626) 441-1211
 FAX: (626) 441-1011

VENTURA COLLEGE LEARNING RESOURCES CENTER
 Ventura County Community College District
 4667 Telegraph Road
 Ventura, CA 93003

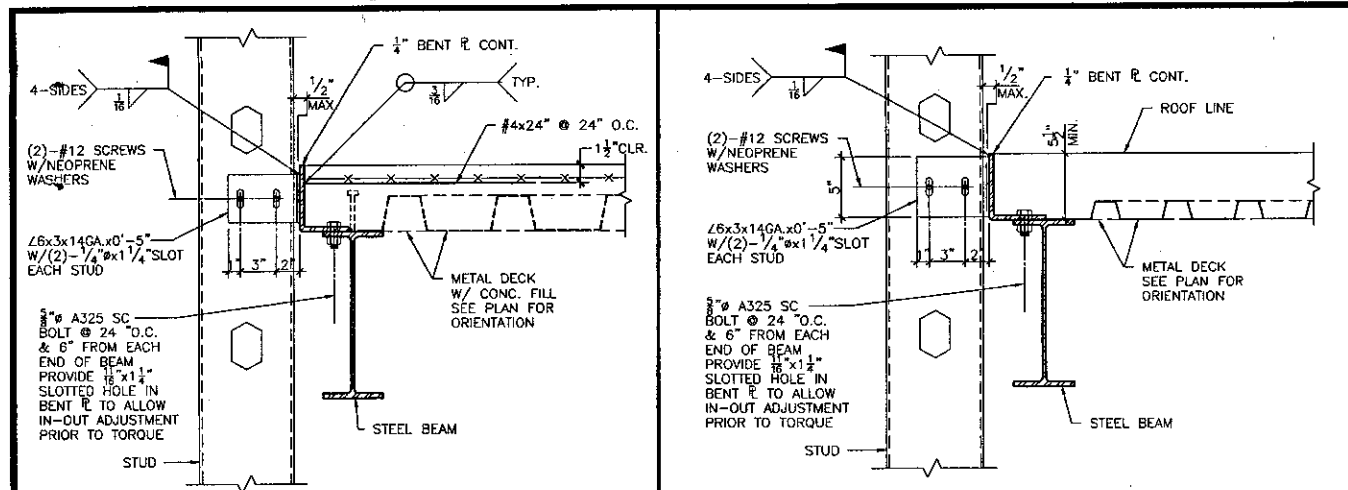
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Architect's Stamp: No. 11155, Date of Completion 11/01

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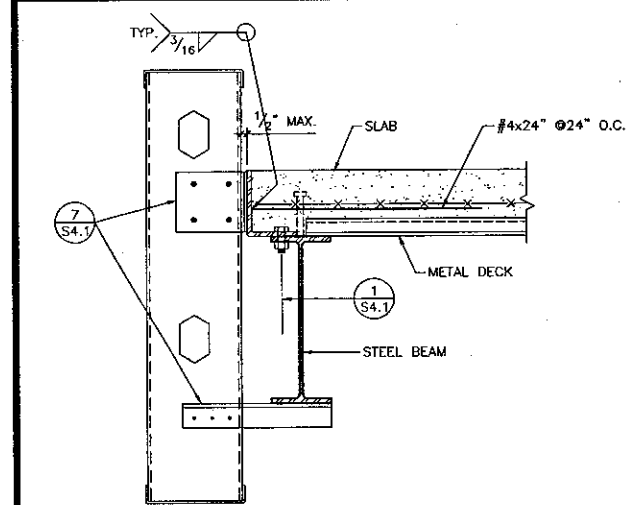
NO.	DESCRIPTION	DATE	BY

DRAWN: K. CONNER
 CHECKED: L. TSO/B. MURDOCK
 DATE: 09/24/01
 JOB NO.: 9318
 SHEET TITLE: STRUCTURAL ELEVATIONS
 SHEET: S3.2

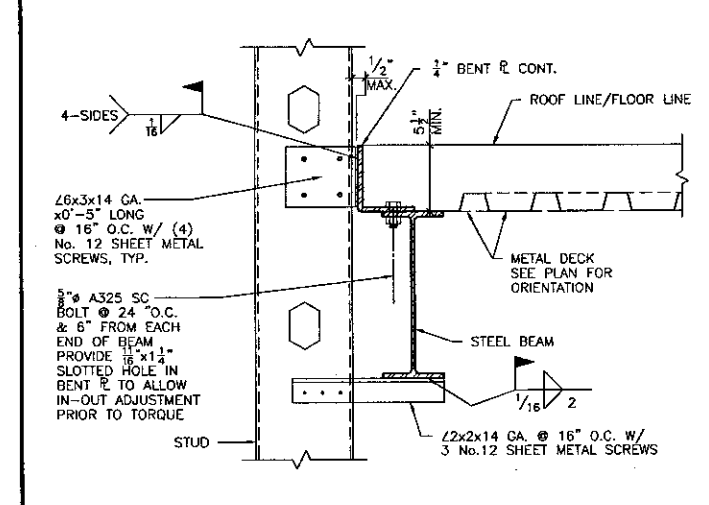


TYPICAL EXTERIOR WALL SECTION AT FLOOR 1/2" 1

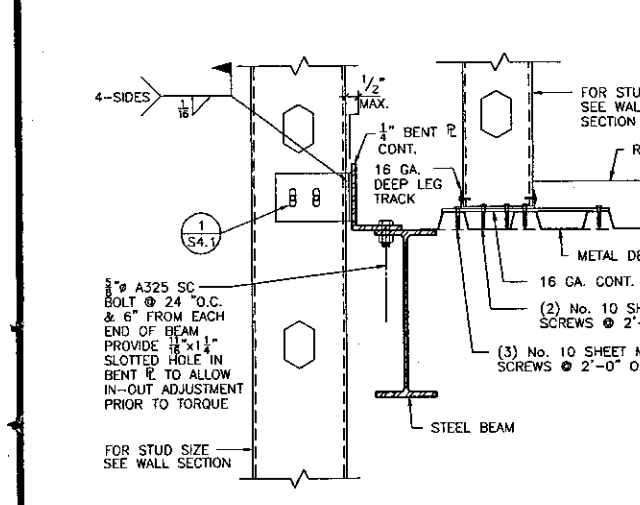
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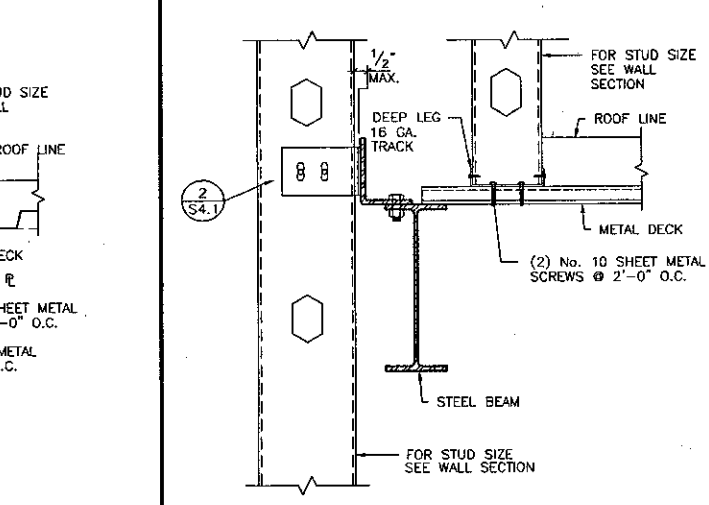
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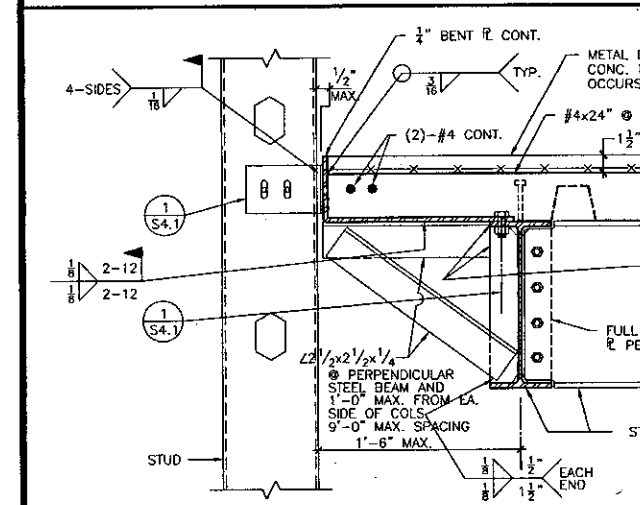
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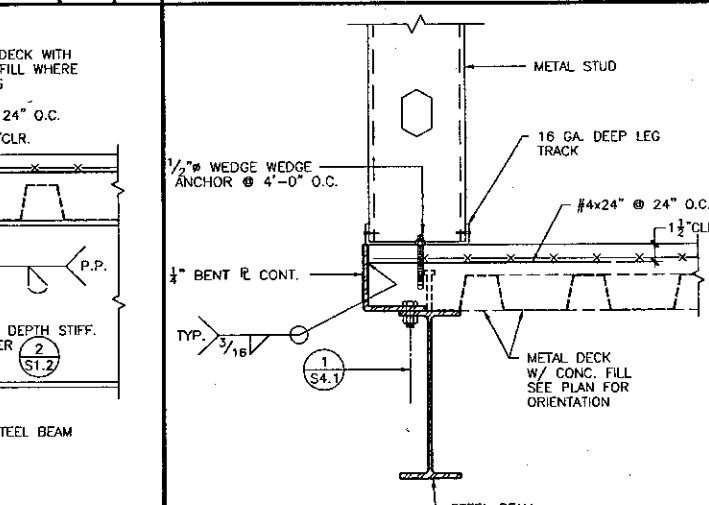
EXTERIOR WALL SECTION AT LOW ROOF 1/2" 11



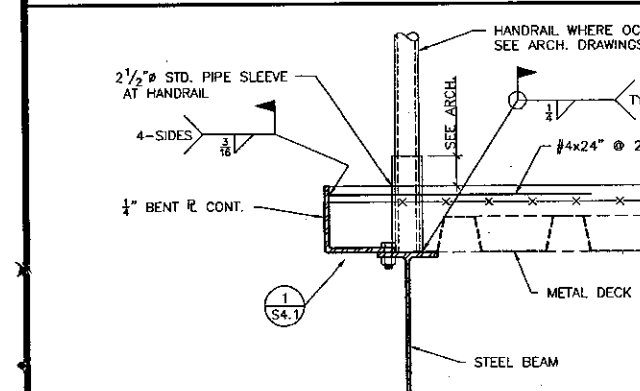
EXTERIOR WALL SECTION AT LOW ROOF 1/2" 12



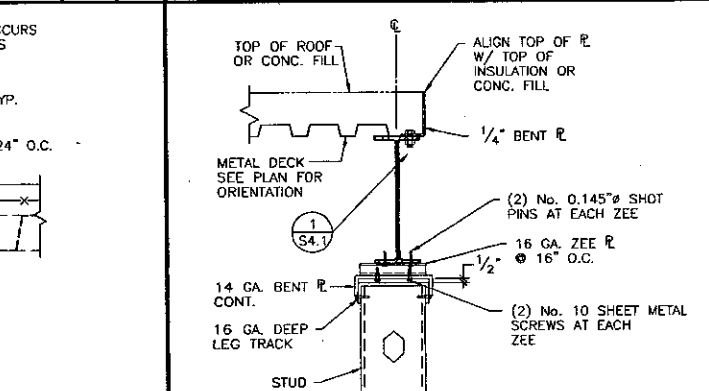
EXTERIOR WALL SECTION 1/2" 16



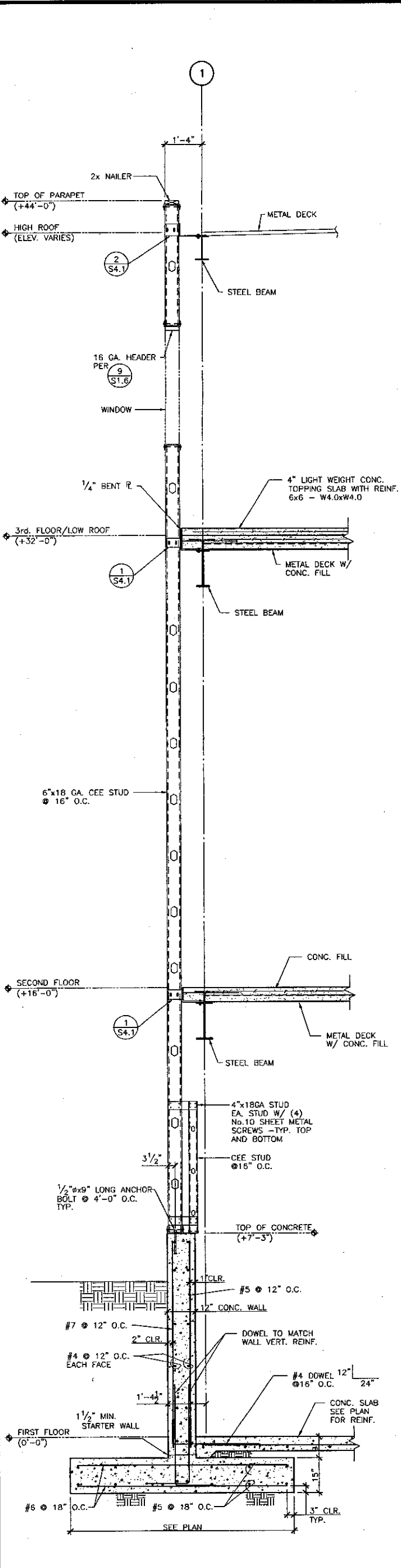
EXTERIOR WALL SECTION 1/2" 17



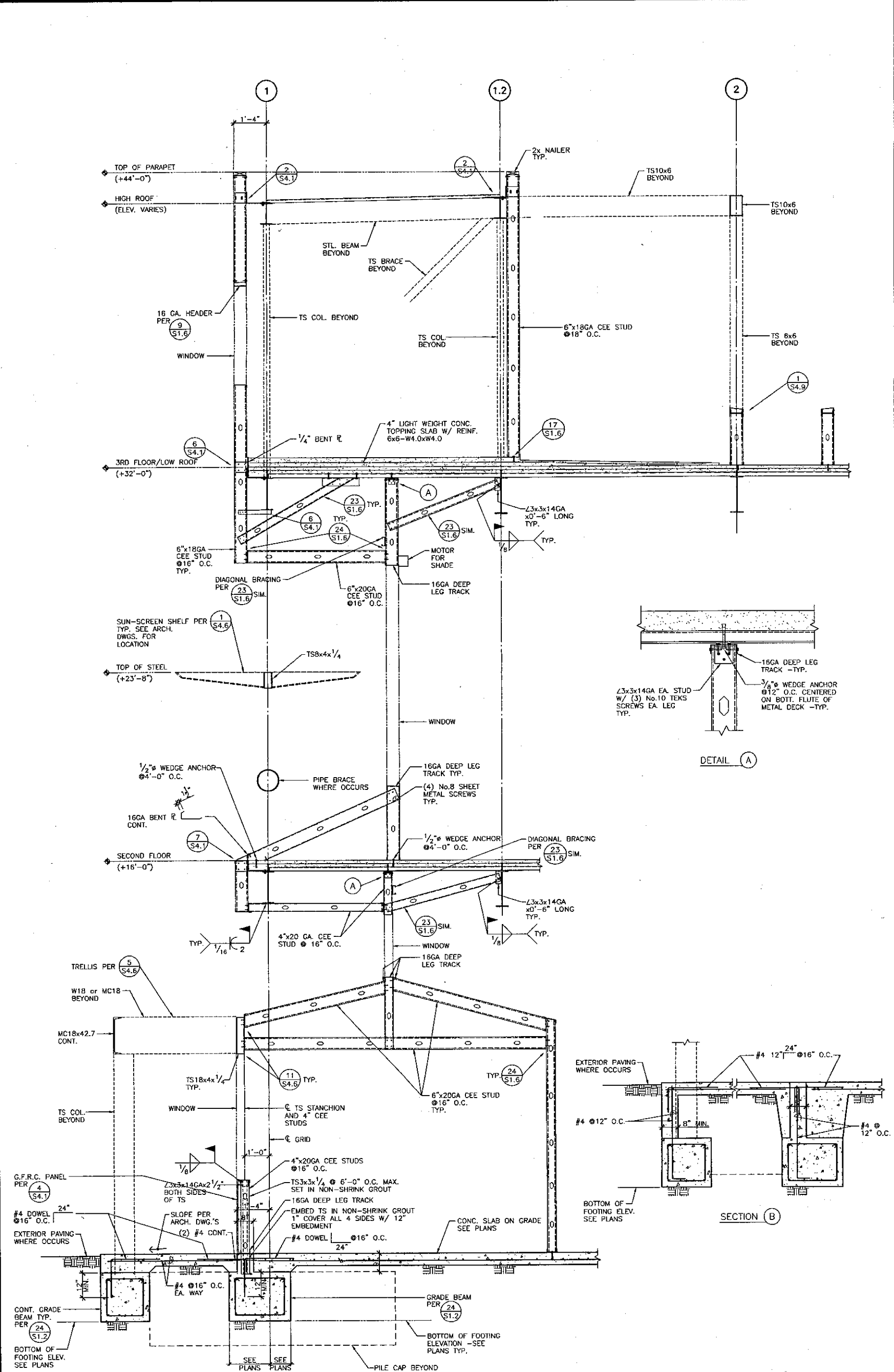
SECTION AT HANDRAIL 1/2" 21



SECTION 1" 22



SECTION 1/2" 23



WALL SECTION 1/2" 25

KRUGER BENSEN ZIEMER ARCHITECTS, INC.
30 W. ARRELLAGA, SANTA BARBARA, CA 93101
805/963.1725

STEVE DOWTY, A.I.A.
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SOUTH PASADENA, CA 91030-3035
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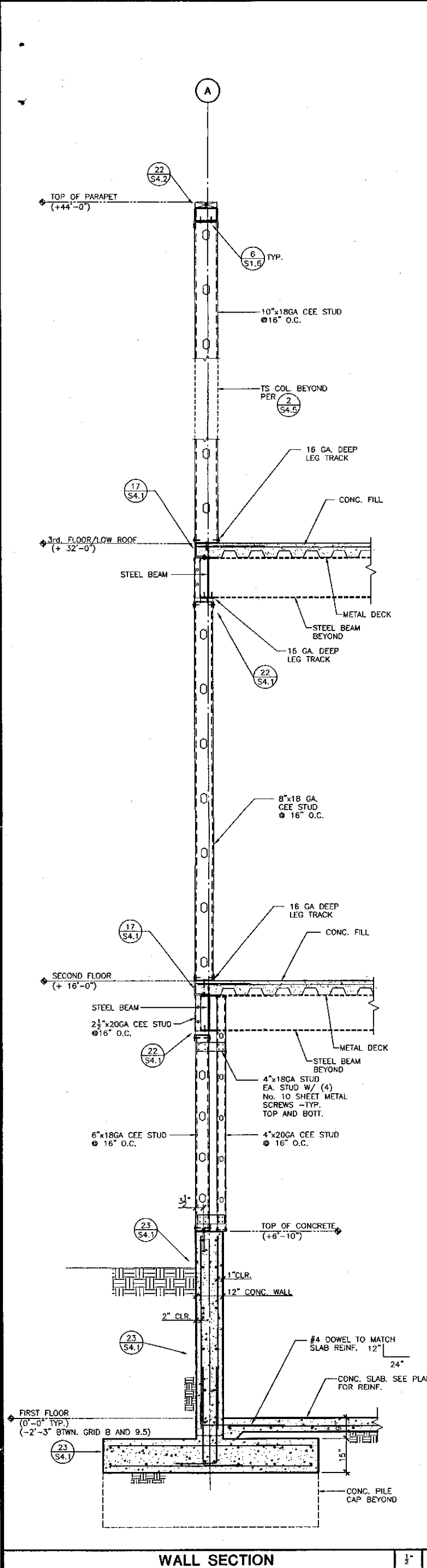
VENTURA COLLEGE LEARNING RESOURCES CENTER
Ventura County Community College District
Ventura, CA 93003
4667 Telegraph Road

Professional Engineer's Stamp
No. S 3073
Exp. 3-31-2005
ARCHITECT'S STAMP
No. C-1183
Ren. 11/01

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
FILE NUMBER: S6C1
APPL 03-104498
DATE 11/17

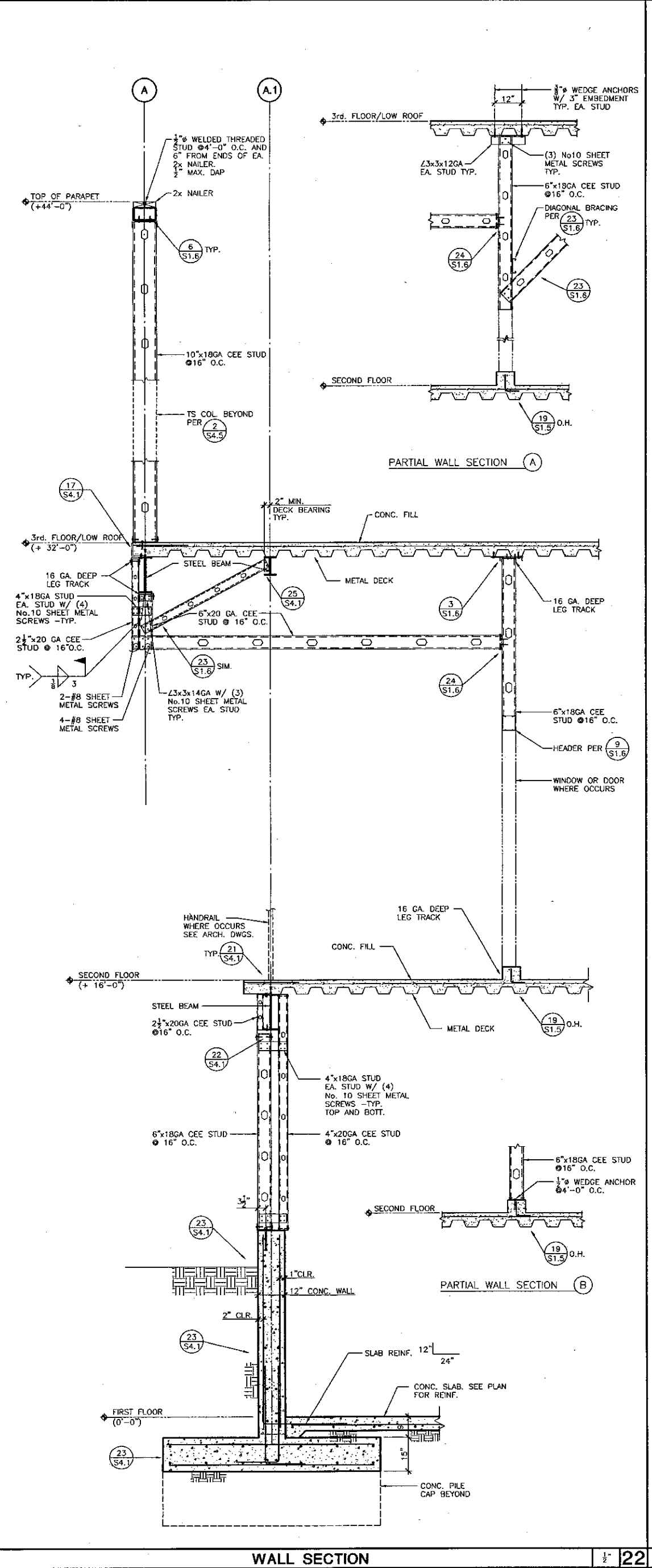
NO.	DESCRIPTION	DATE	BY

DRAWN: K. CONNER
CHECKED: L. TSO/B. MURDOCK
DATE: 09/24/01
JOB NO.: 9318
SHEET TITLE: SECTIONS AND DETAILS
SHEET: S4.1



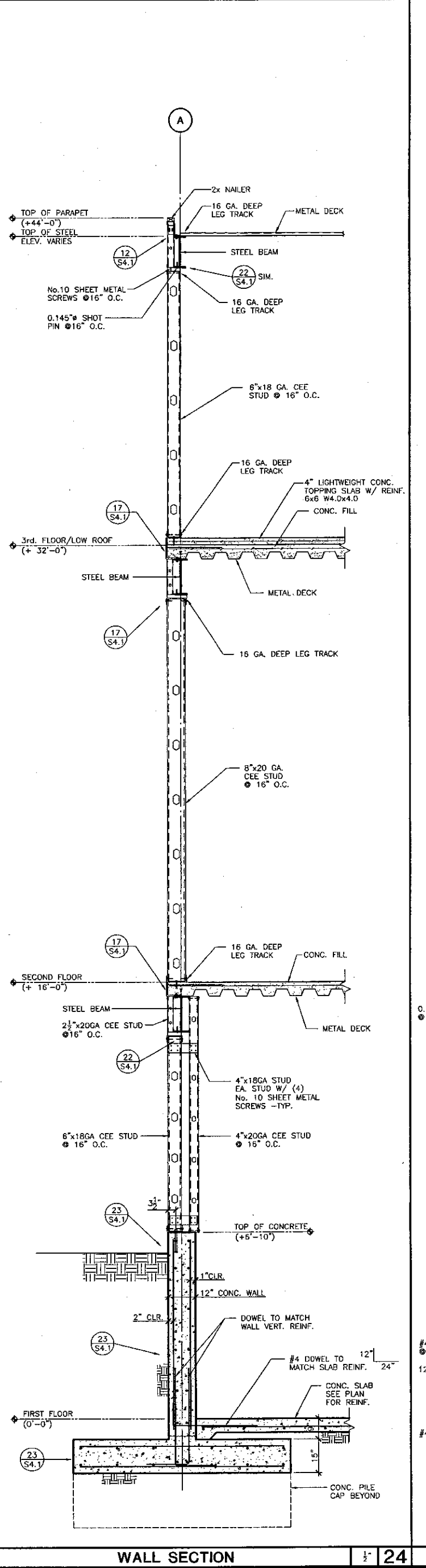
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21



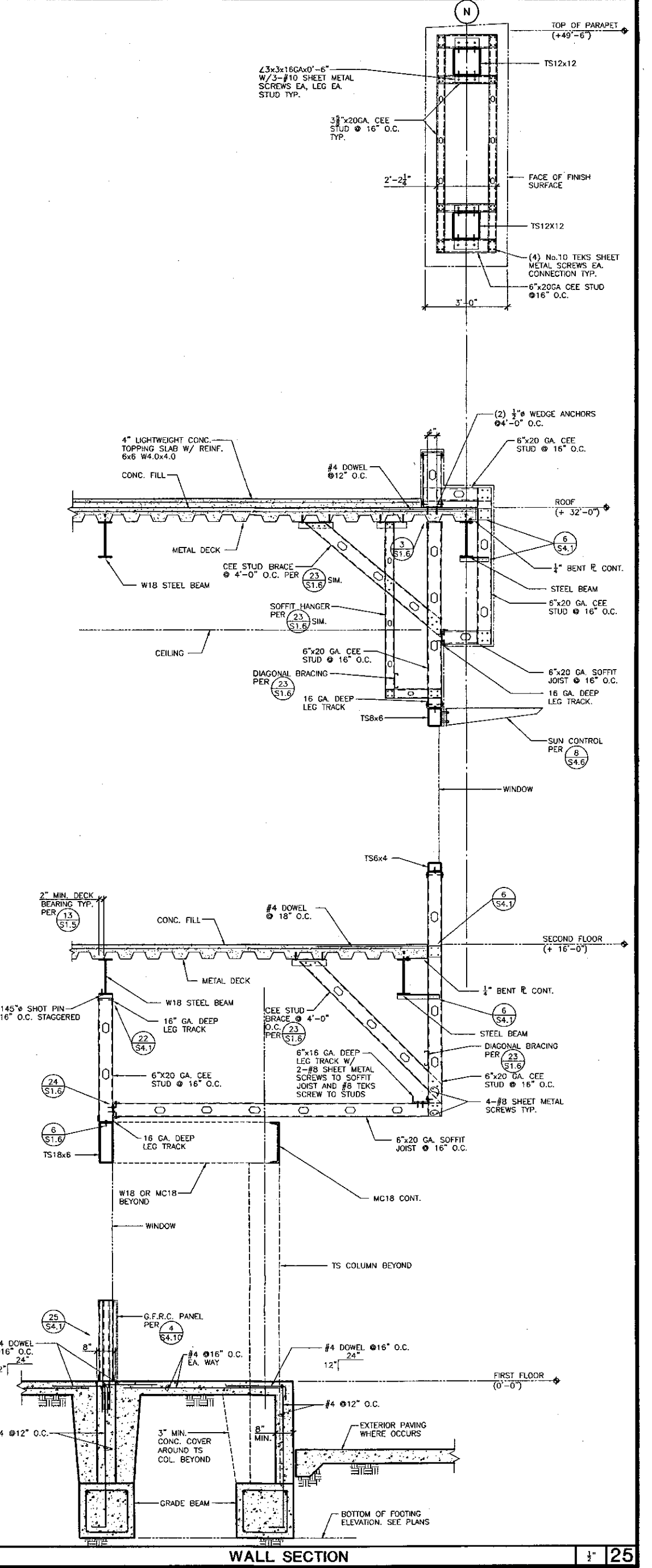
WALL SECTION

22



WALL SECTION

24



WALL SECTION

25

KRUGER BENSEN ZIEMER ARCHITECTS, INC.
30 W. ARRELLAGA
805/963.1728
AIA
SANTA BARBARA, CA 93101

STEVE DOWDY, A.I.A.
PRINCIPAL IN CHARGE

THIERRY H. CASSAN
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CONSULTING STRUCTURAL ENGINEERS
511 MISSION STREET
SOUTH PASADENA, CA 91106-3035
TEL: (626) 441-1211
FAX: (626) 441-1011

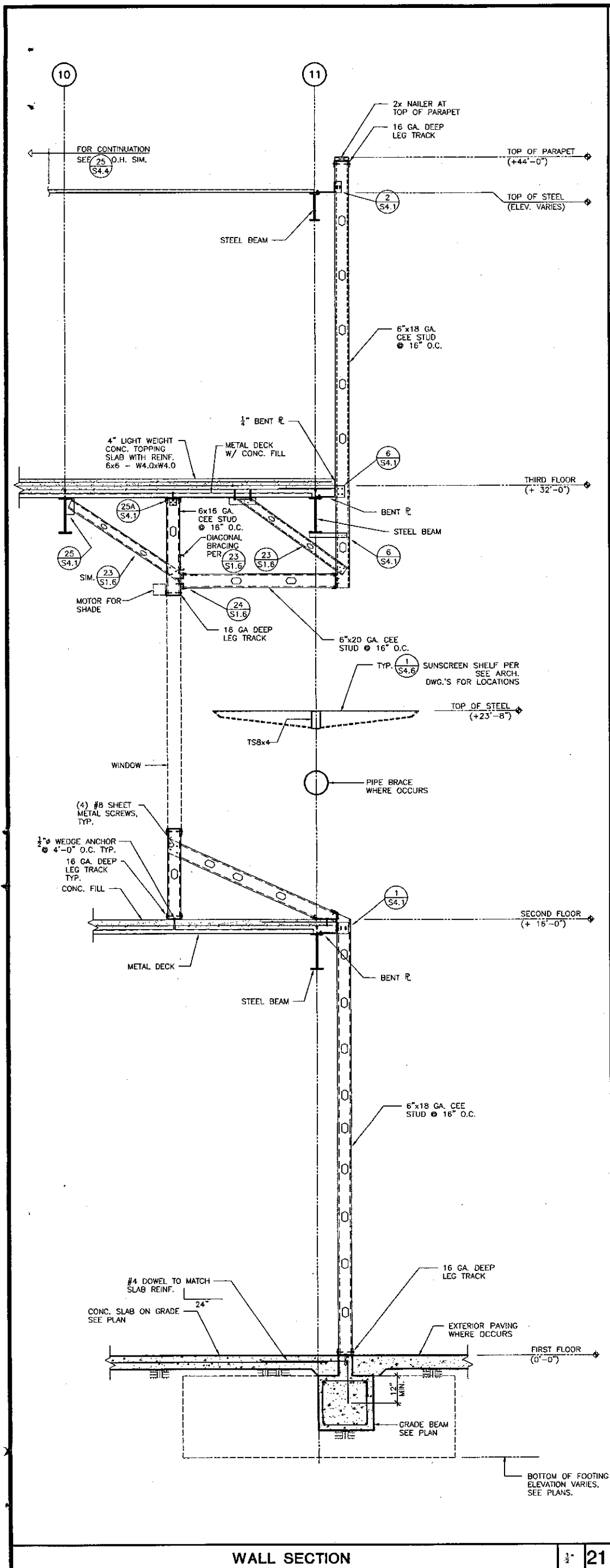
VENTURA COLLEGE LEARNING RESOURCES CENTER
Ventura County Community College District
Ventura, CA 93003
4667 Telegraph Road

ENGINEER'S STAMP ARCHITECT'S STAMP

IDENTIFICATION STATE
DIVISION OF THE STATE ARCHITECT
FILE NUMBER: SECT
APPL 03-104498
AC _____ FLIS _____ SS _____
DATE _____

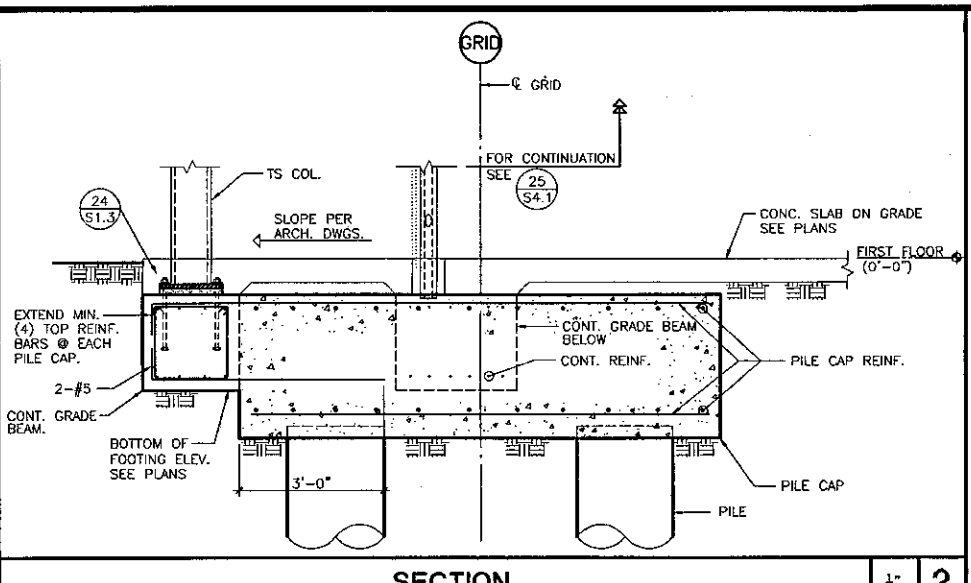
NO.	DESCRIPTION	DATE	BY

DRAWN C. VARELA
CHECKED L. TSO/B. MURDOCK
DATE 09/24/01
JOB NO. 9318
SHEET TITLE
SECTIONS AND DETAILS
SHEET
S4.2



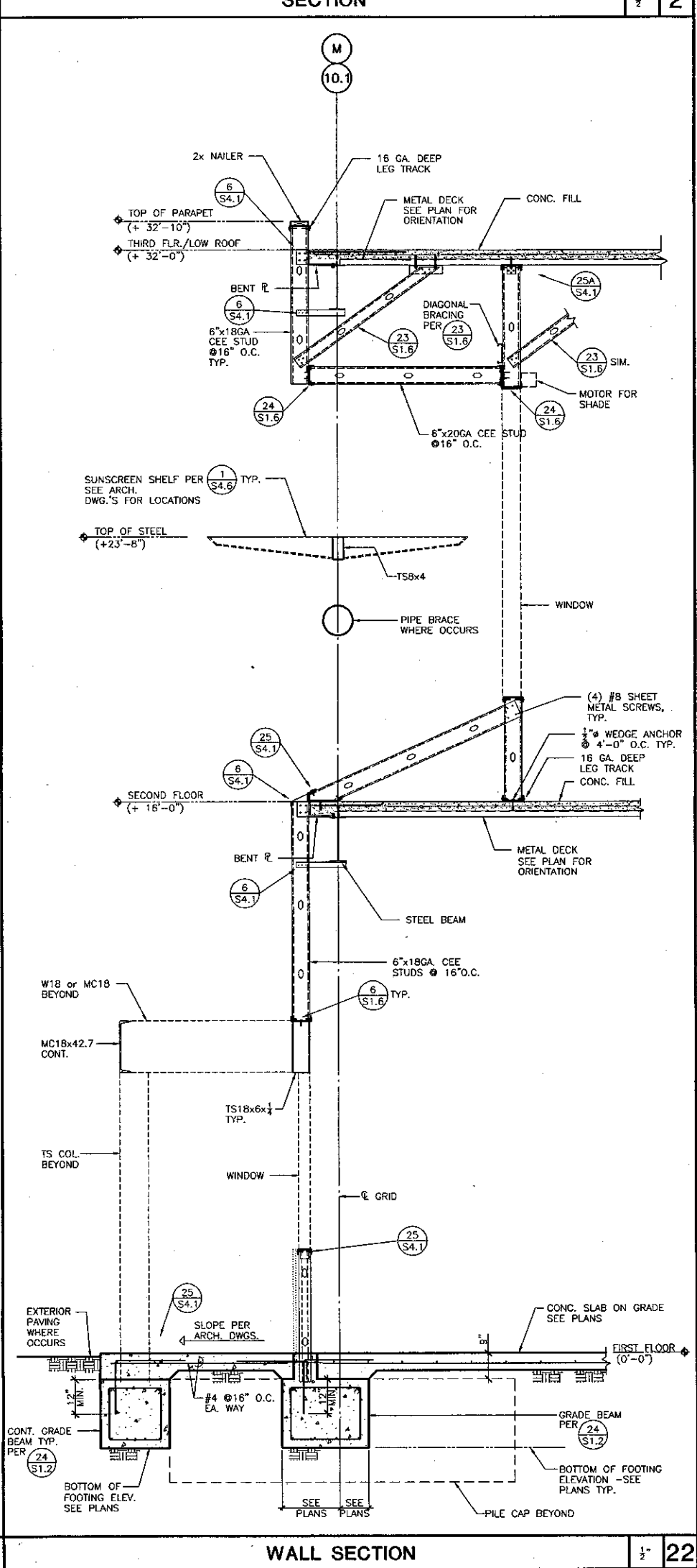
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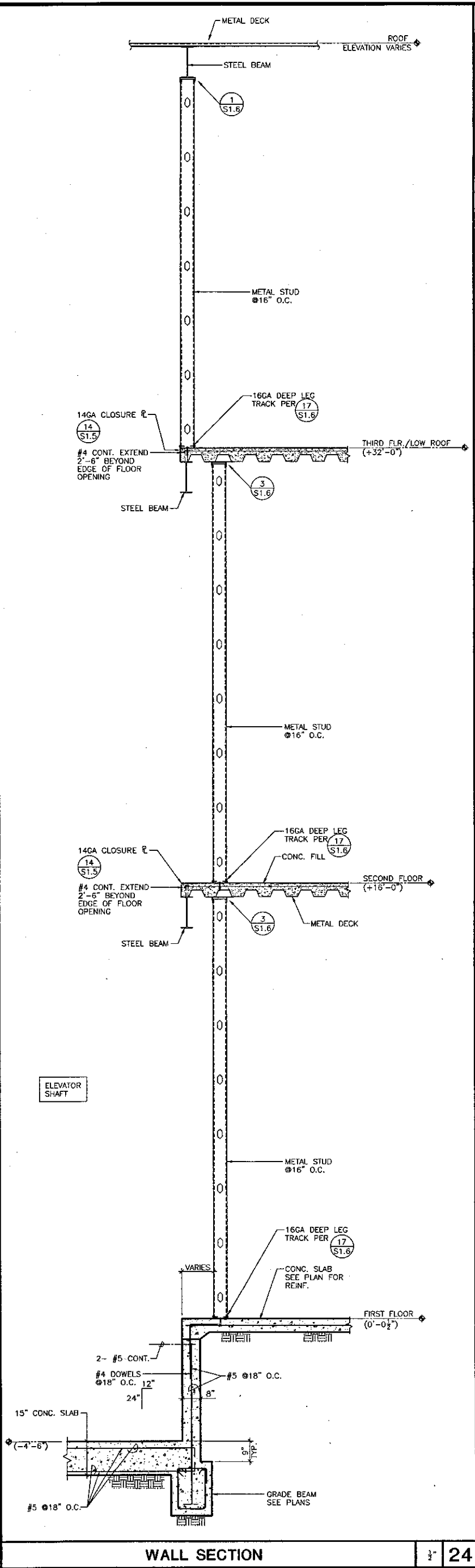
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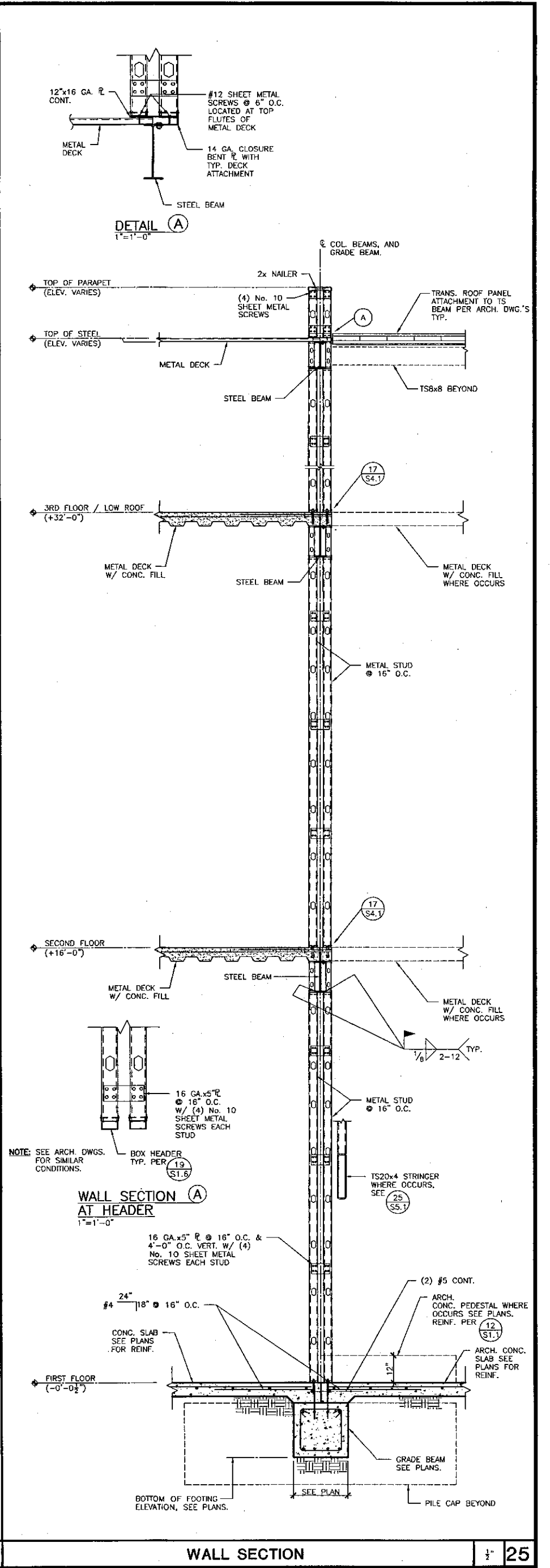
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WALL SECTION

24



WALL SECTION

25



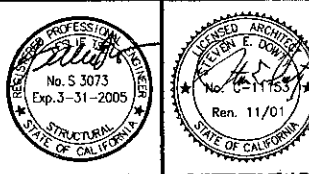
KRUGER BENSEN ZIEMER ARCHITECTS, INC. AIA
30 W. ARRELIAGA, SANTA BARBARA, CA 93101
805/963.1726

STEVE DOWDY, A.I.A.
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THIERRY H. CASSAN
PROJECT DESIGNER

KANDA | TSO
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TEL: (626) 441-1211 FAX: (626) 441-1011

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Ventura County Community College District
4667 Telegraph Road
Ventura, CA 93003

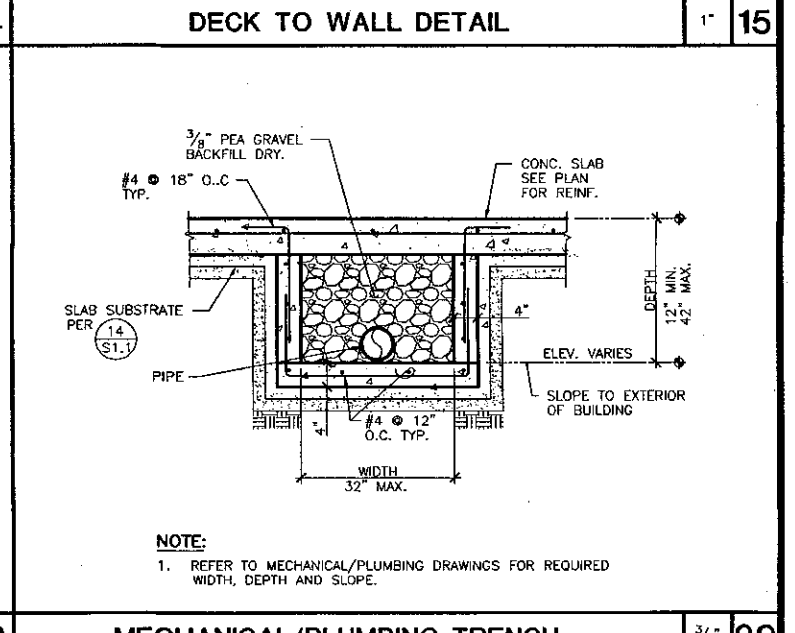
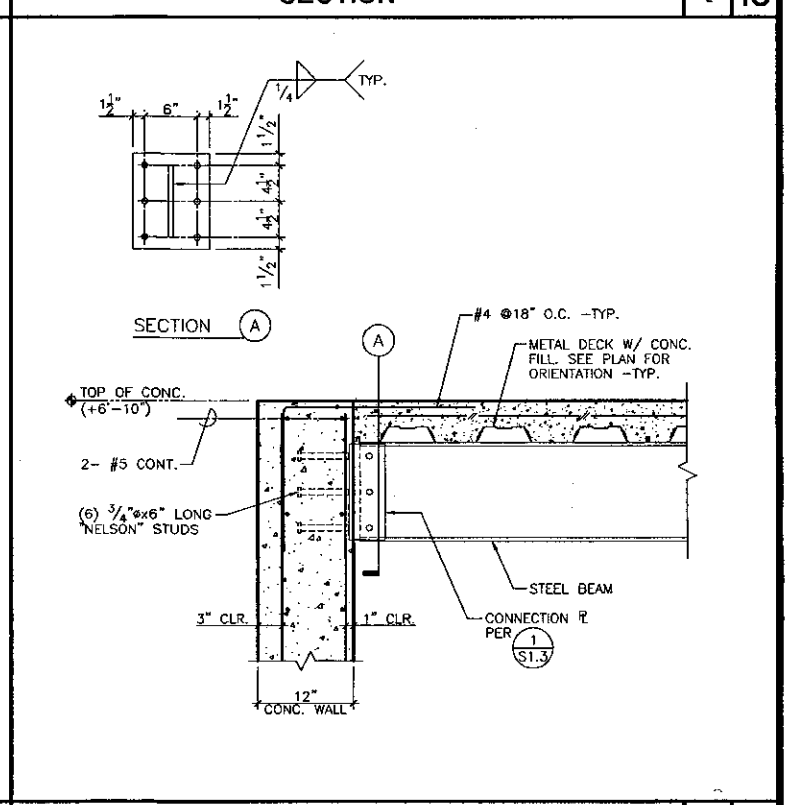
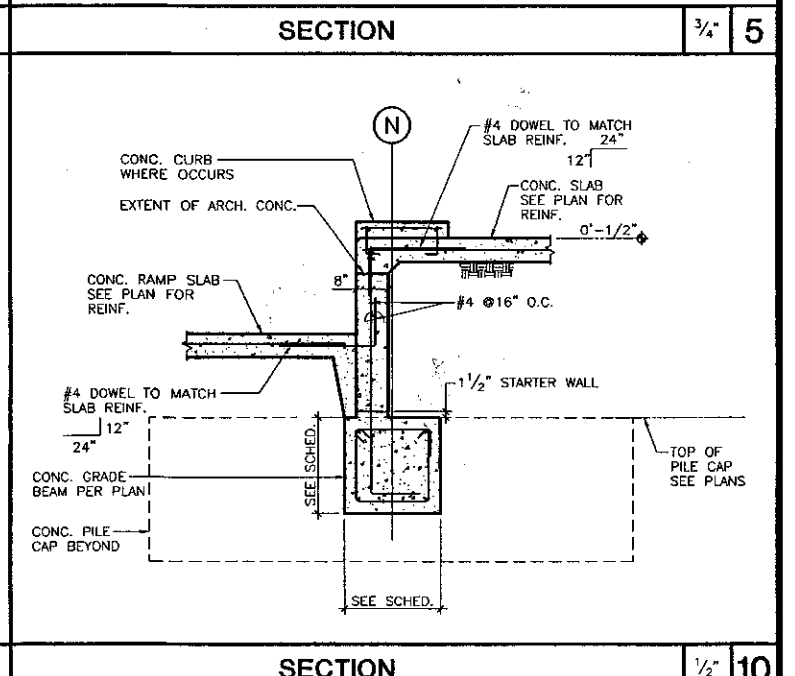
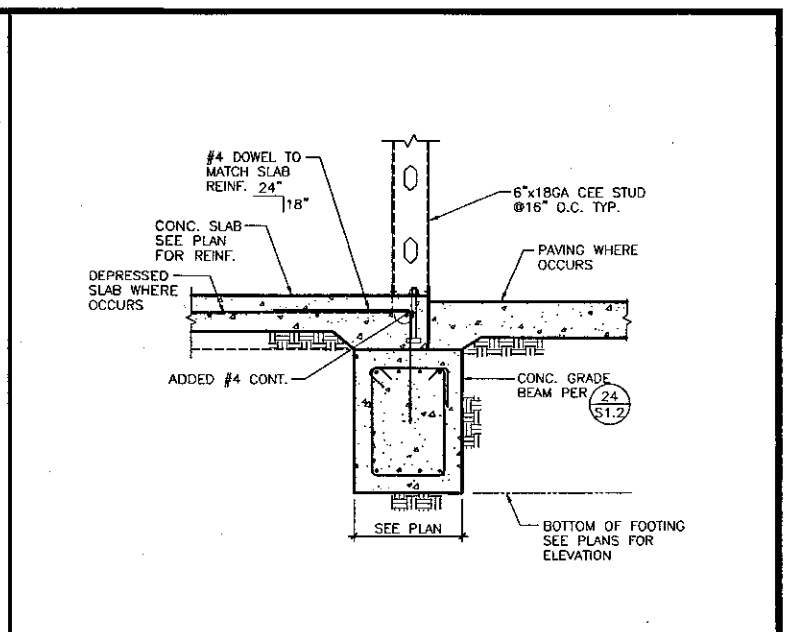
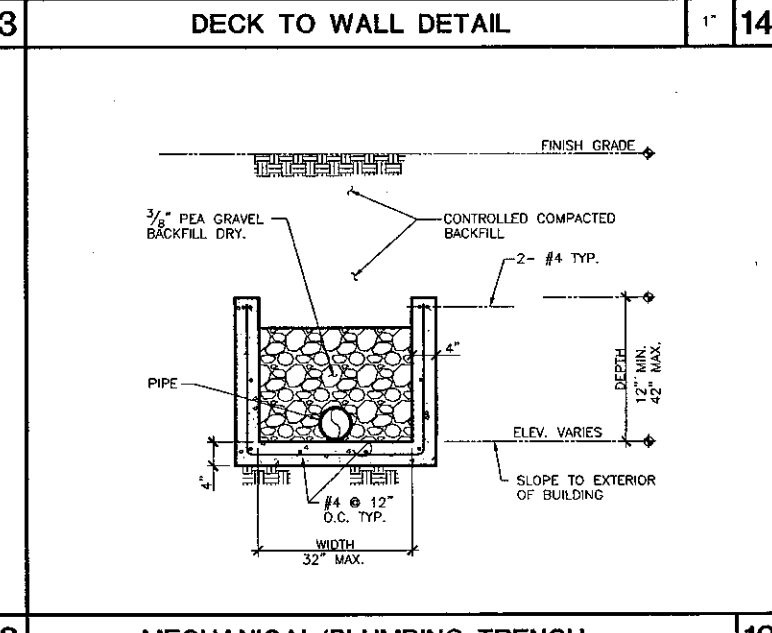
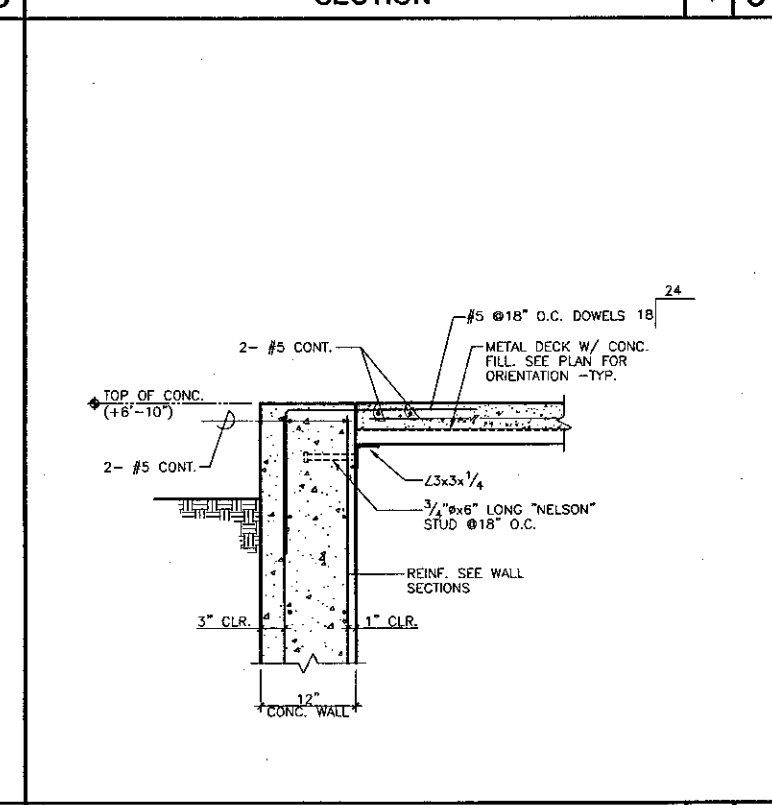
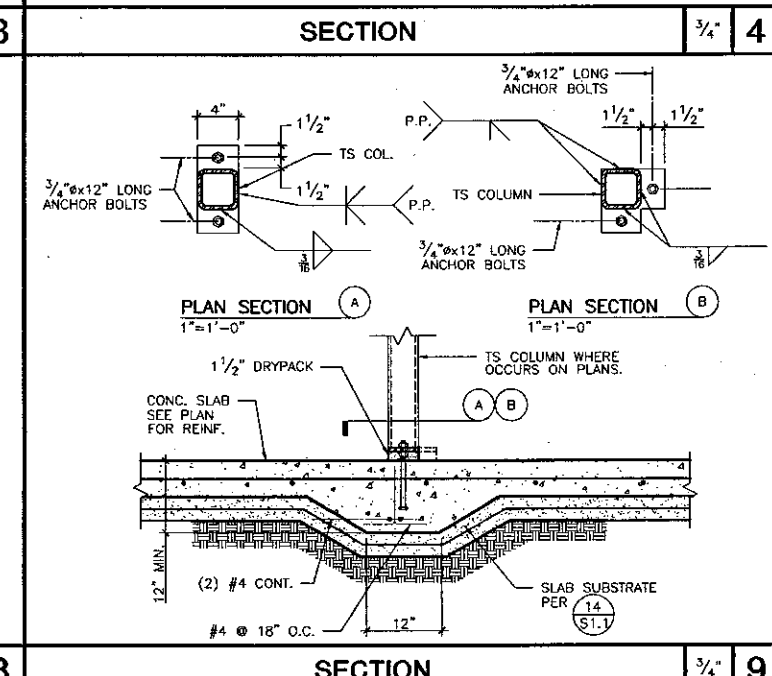
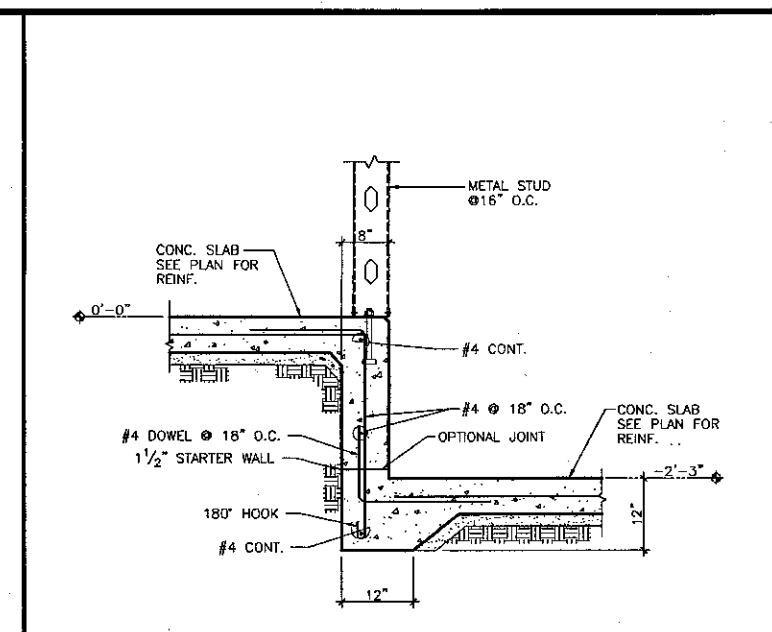
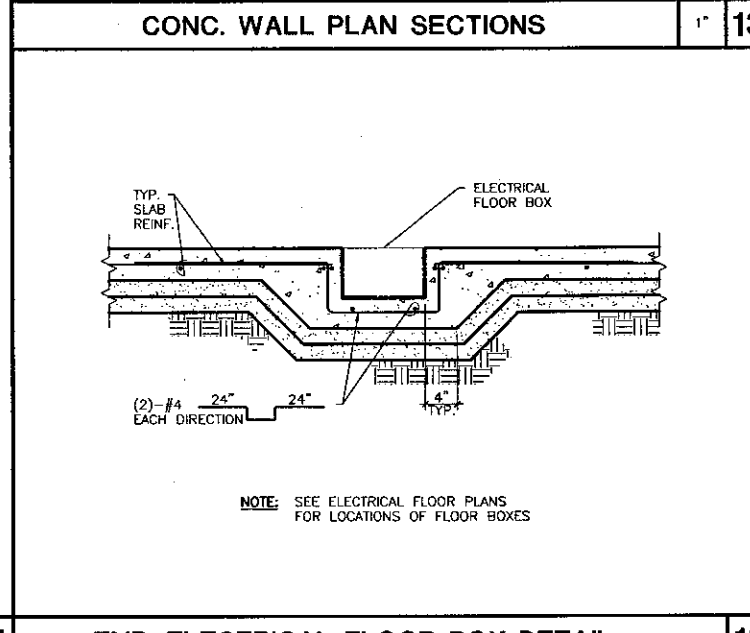
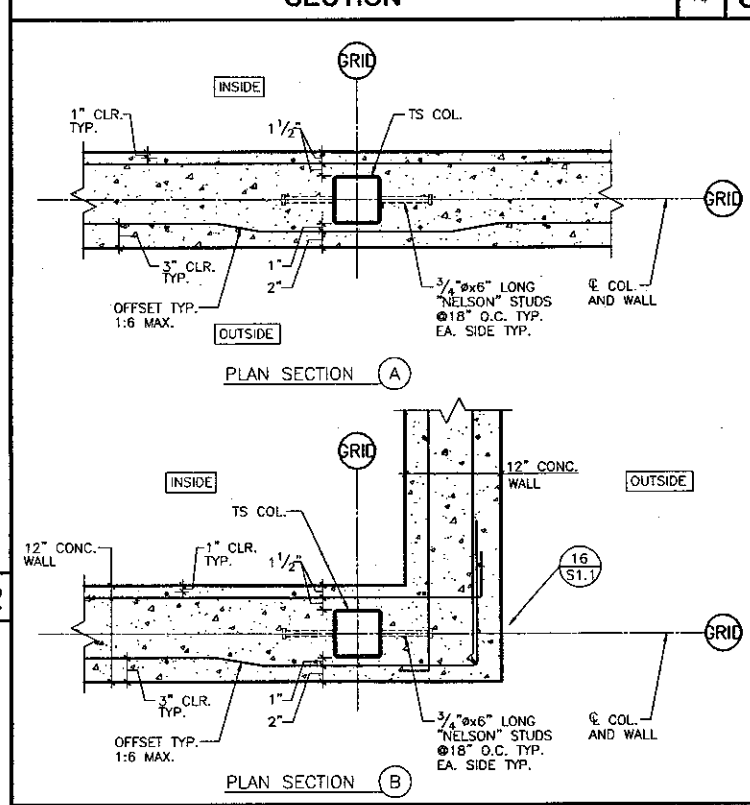
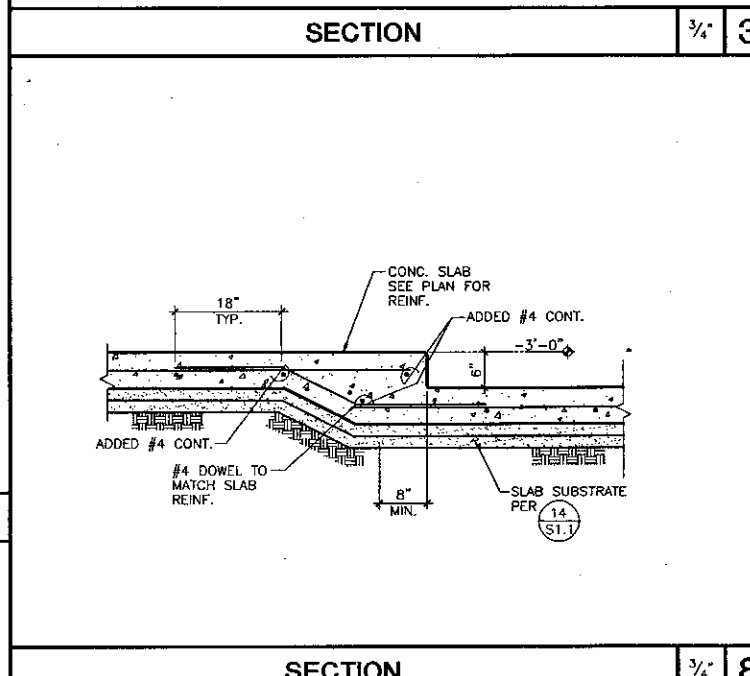
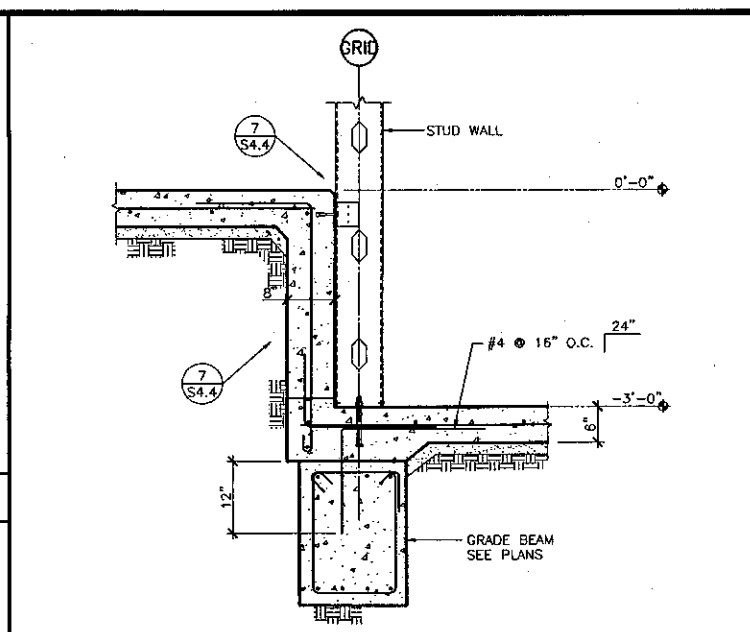
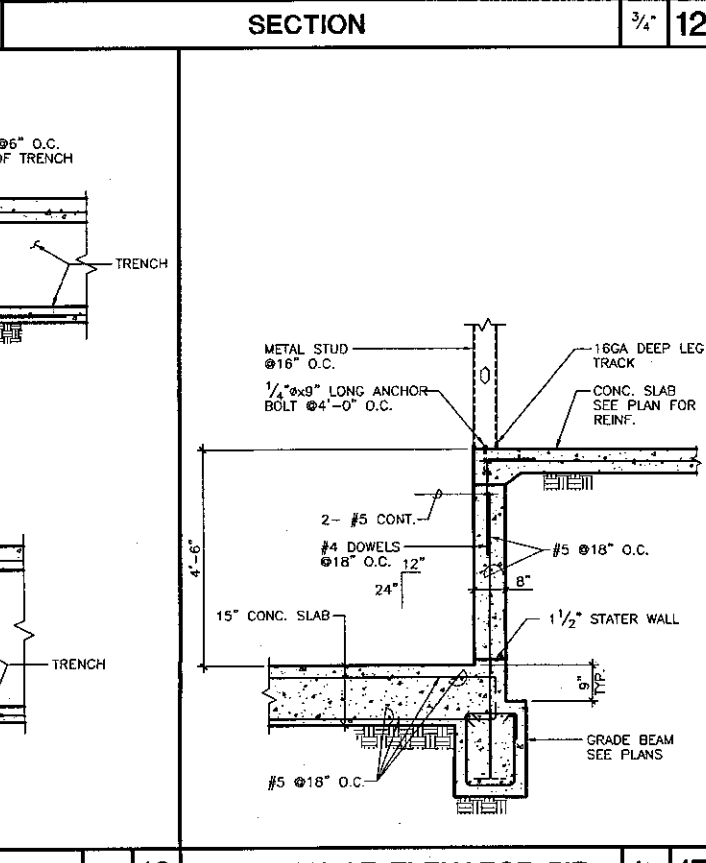
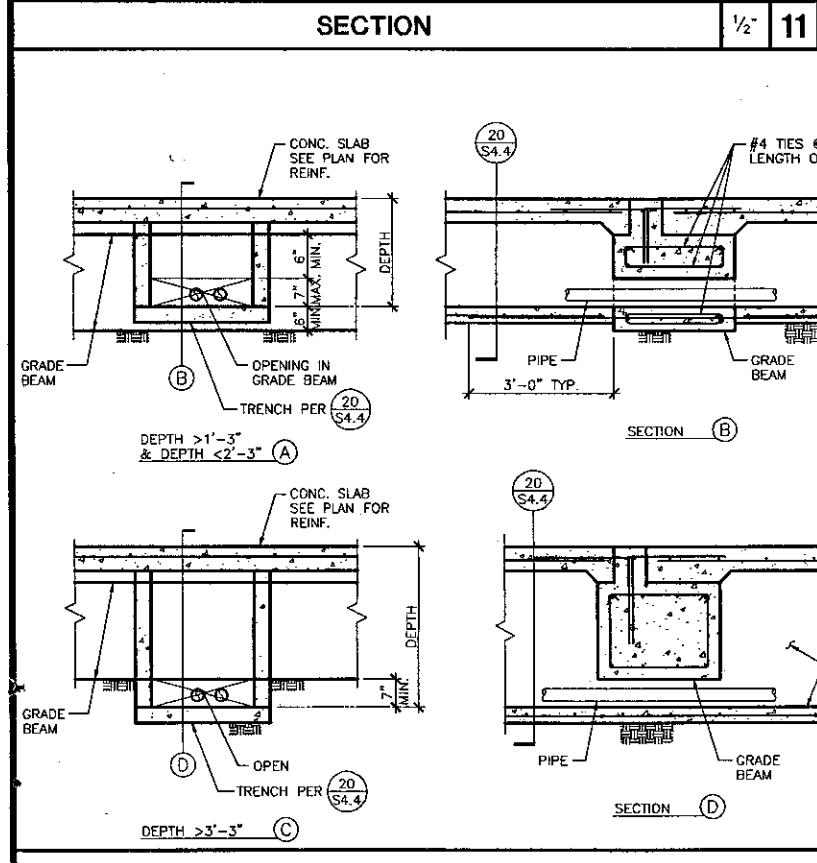
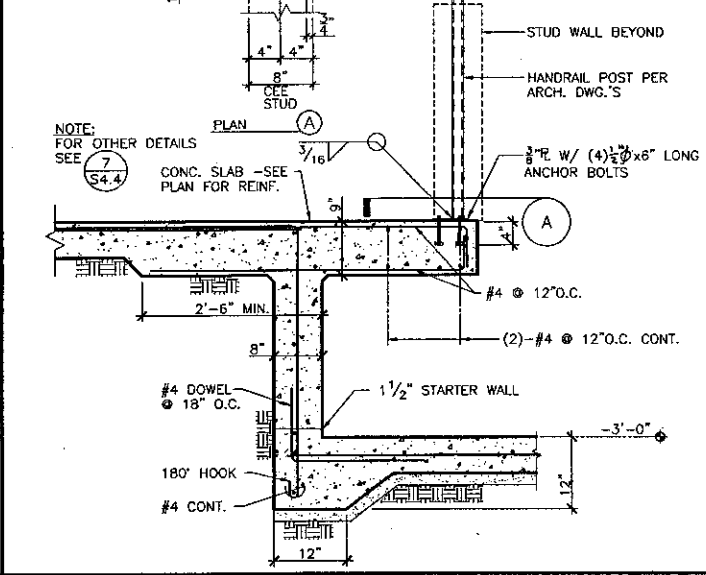
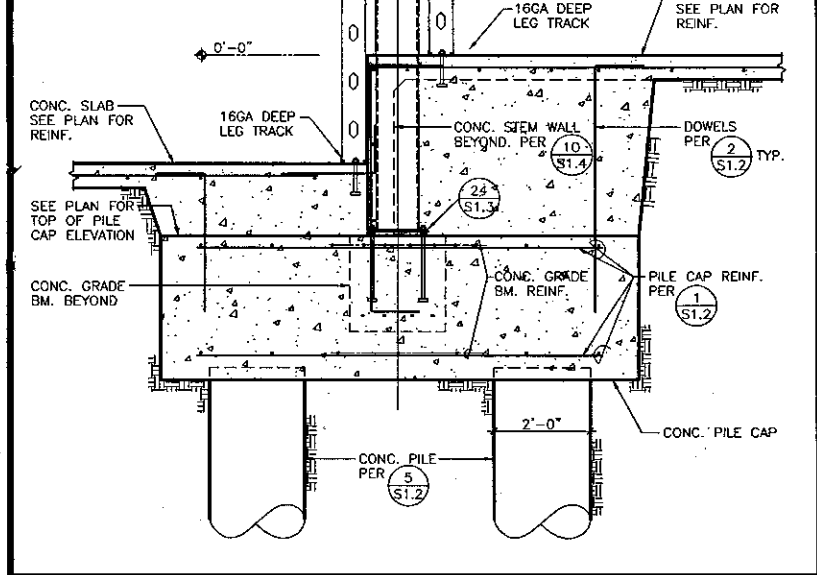
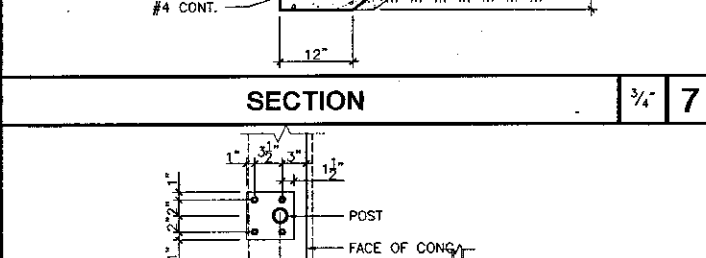
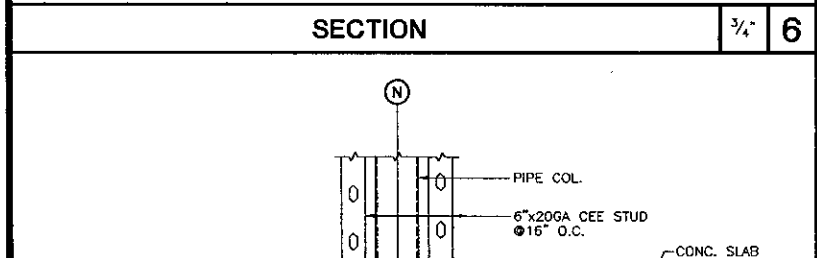
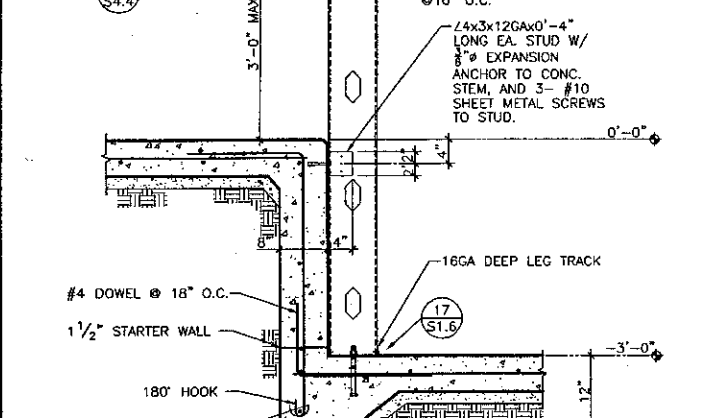
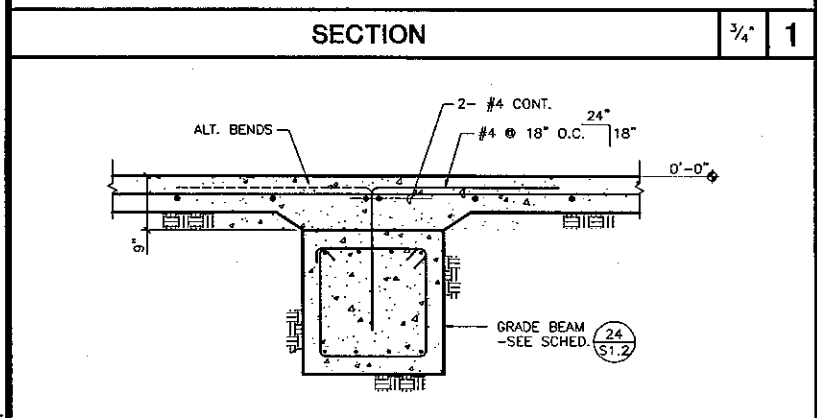
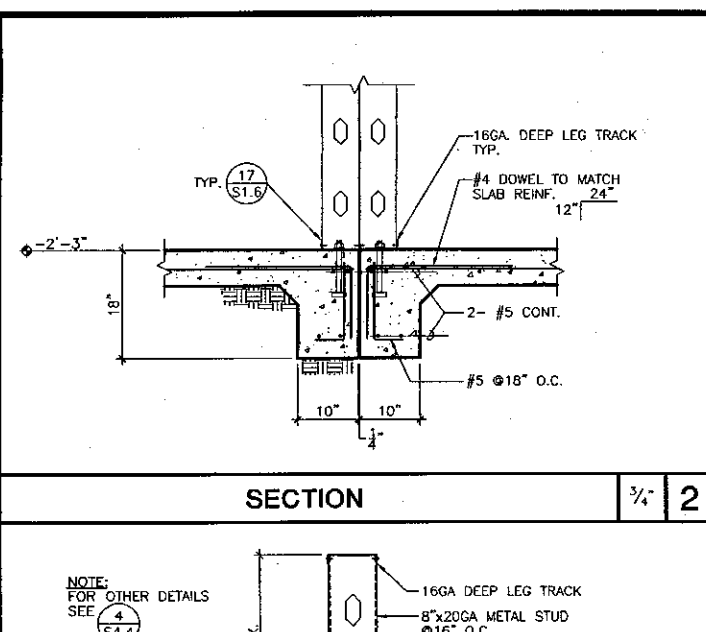
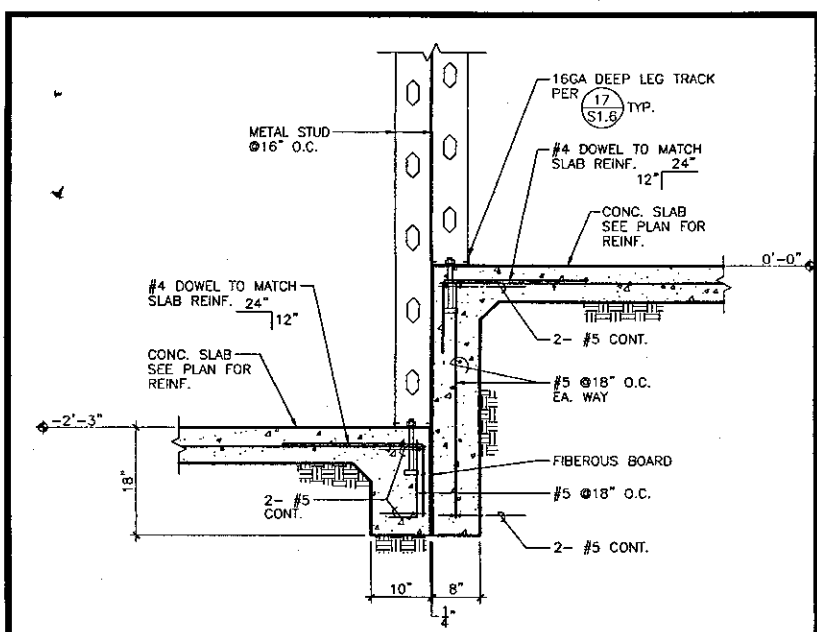


ENGINEER'S STAMP ARCHITECT'S STAMP

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
FILE NUMBER: 5621
APPL 03-104498
AC DATE: 11/21/07

NO.	DESCRIPTION	DATE	BY

DRAWN: C. VARELA
CHECKED: L. TSO/B. MURDOCK
DATE: 09/24/01
JOB NO.: 9318
SHEET TITLE: SECTIONS AND DETAILS
SHEET: S4.3



KRUGER BENSEN ZIEMER ARCHITECTS, INC.
30 W. ARRELLA CA. SANTA BARBARA, CA. 93101
805/963.1728

STEVE DOWDY, A.I.A.
PRINCIPAL IN CHARGE

THIERRY H. CASSAN
PROJECT DESIGNER

KANDA TSO
KANDA AND TSO ASSOCIATES
CONSULTING STRUCTURAL ENGINEERS
511 MISSION STREET
SOUTH PASADENA, CA. 91030-3035
TEL: (626) 441-1311
FAX: (626) 441-1011

**VENTURA COLLEGE
LEARNING RESOURCES CENTER**
Ventura County Community College District
Ventura, CA 93003
4667 Telegraph Road

ENGINEER'S STAMP
No. 5 3073
Exp. 3-31-2005
APPL 03-104498

ARCHITECT'S STAMP
Ren. 11/01

NO.	DESCRIPTION	DATE	BY

REVISION

DRAWN: K. CONNER
CHECKED: L. TSO/B. MURDOCK
DATE: 09/24/01
JOB NO.: 9318
SHEET TITLE: SECTIONS AND DETAILS
SHEET: S4.4



KRUGER BENSEN ZIEMER ARCHITECTS, INC. AIA
30 W. ARRELLAGA SANTA BARBARA, CA 93101
805/963.1726

STEVE DOWDY, A.I.A.
PRINCIPAL IN CHARGE

THIERRY H. CASSAN
PROJECT DESIGNER

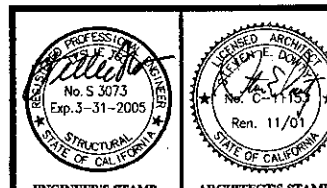
All items, single components and/or materials or assemblies to be shown are subject to approval by the project or design team. The architect, engineer, contractor, and/or manufacturer shall be responsible for providing the necessary information and approvals. Items of such nature, unless otherwise specified, shall be subject to the approval of the project or design team.

KANDA | TSO

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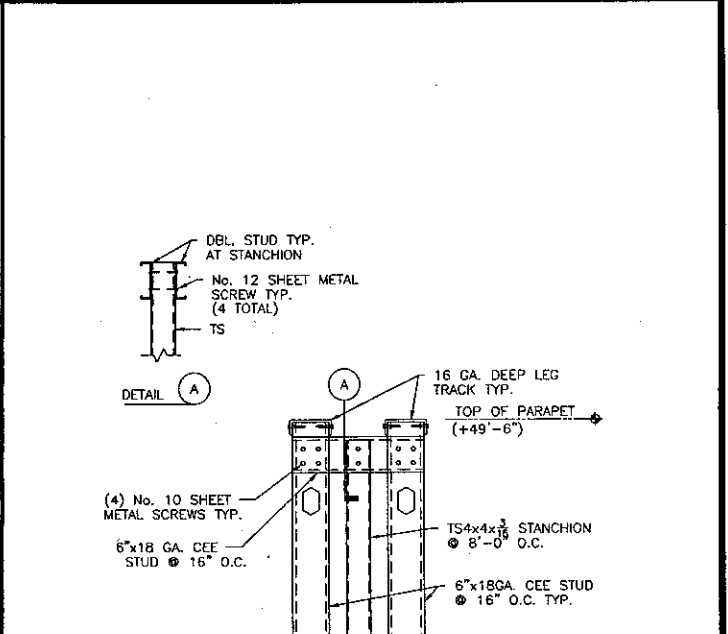
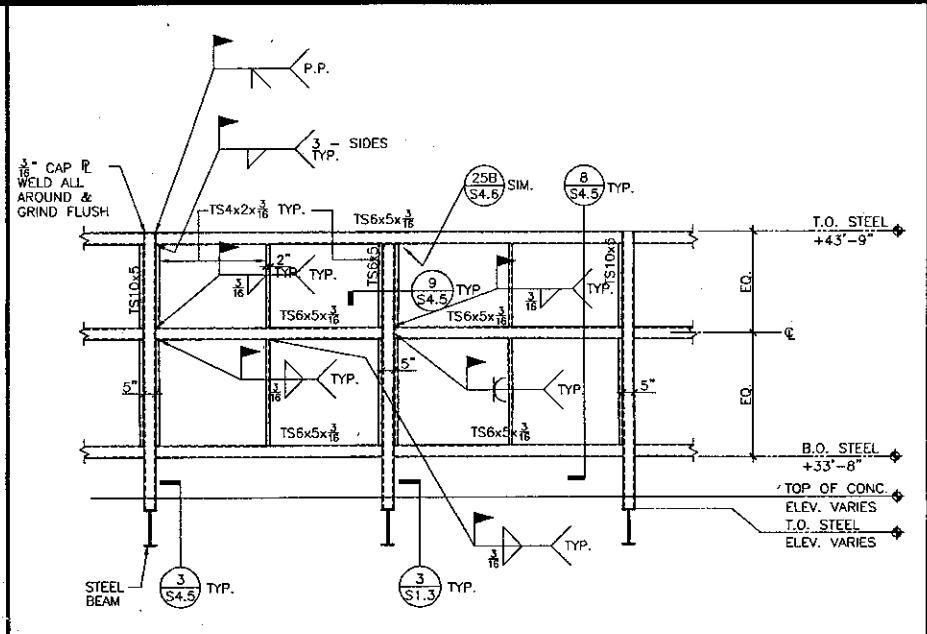
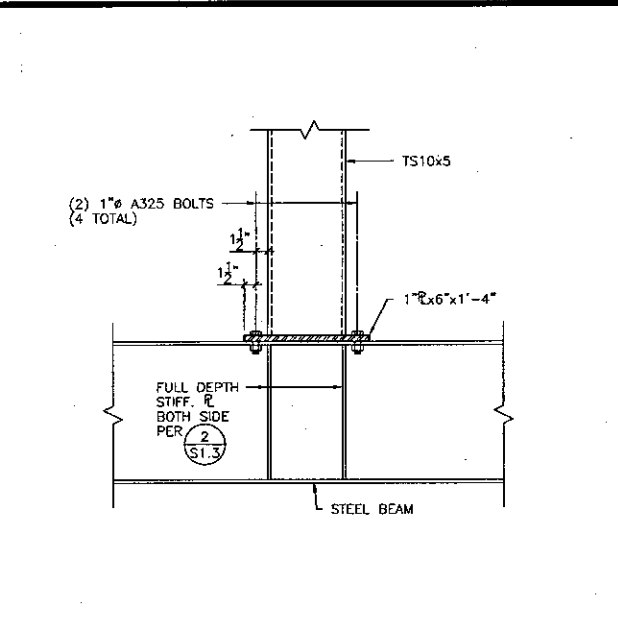
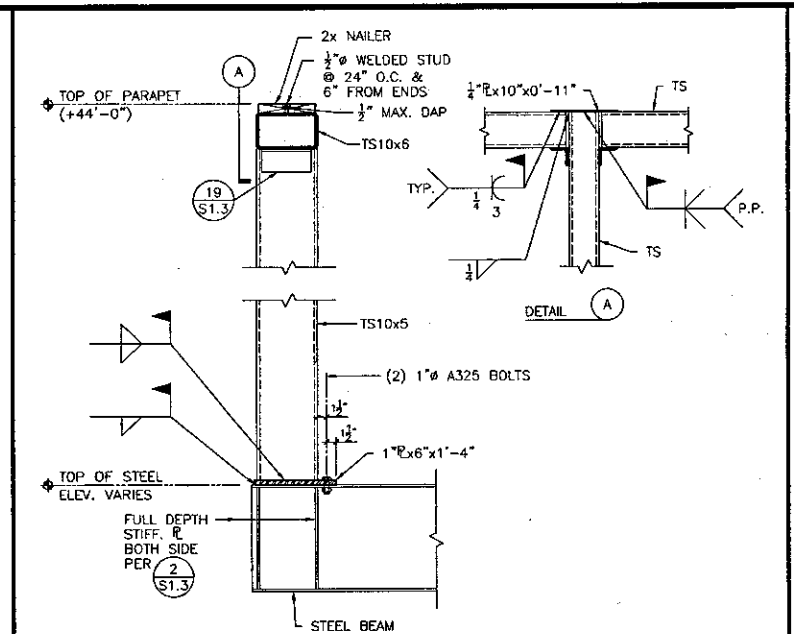
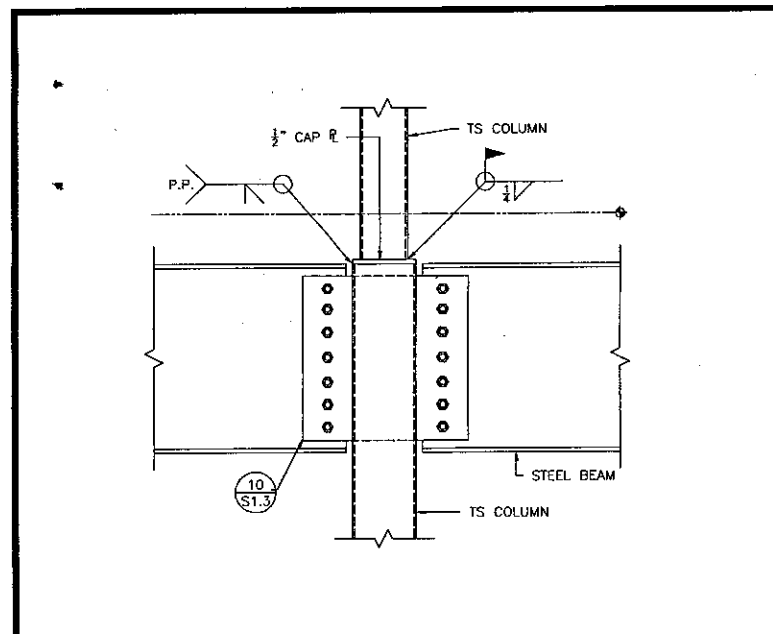
Ventura County Community College District
Ventura, CA 93003
4667 Telegraph Road



IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
FILE NUMBER: 5661
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AC: RLS SS: JCY
DATE: 11/2/01

NO.	DESCRIPTION	DATE	BY

DRAWN: C. VARELA
CHECKED: L. TSO/B. MURDOCK
DATE: 09/24/01
JOB NO.: 9318
SHEET TITLE: SECTIONS AND DETAILS
SHEET: S4.5



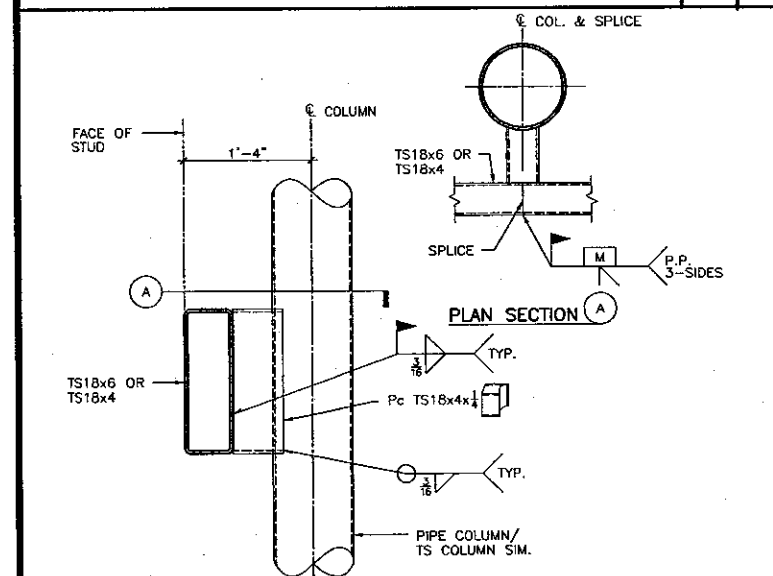
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DETAILS 1/2" 2

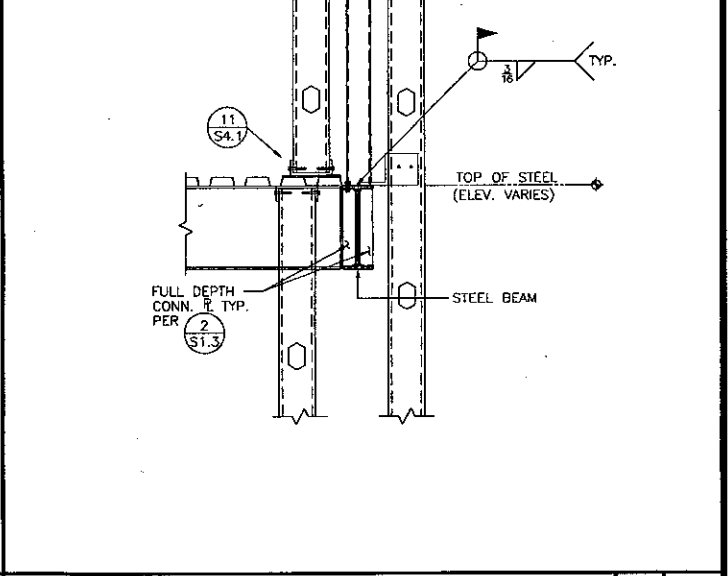
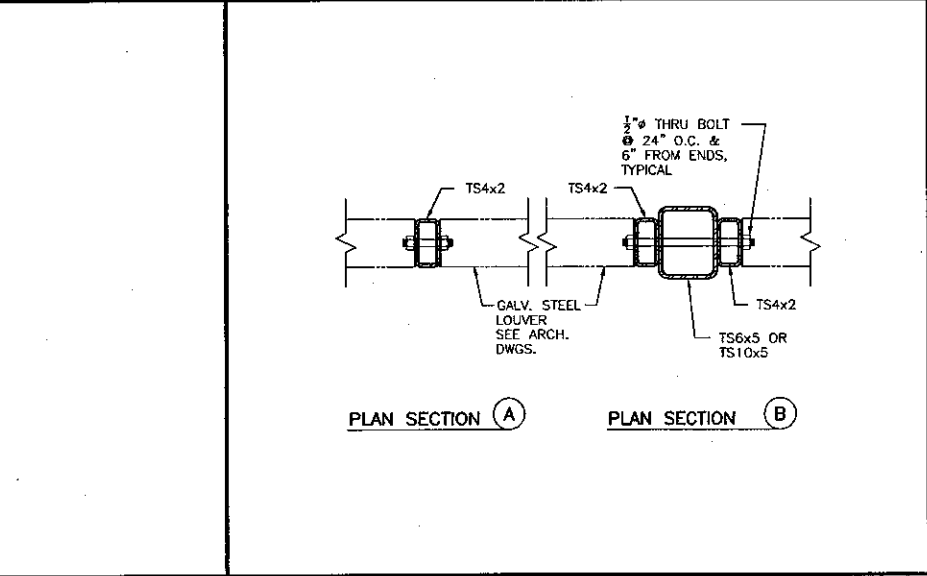
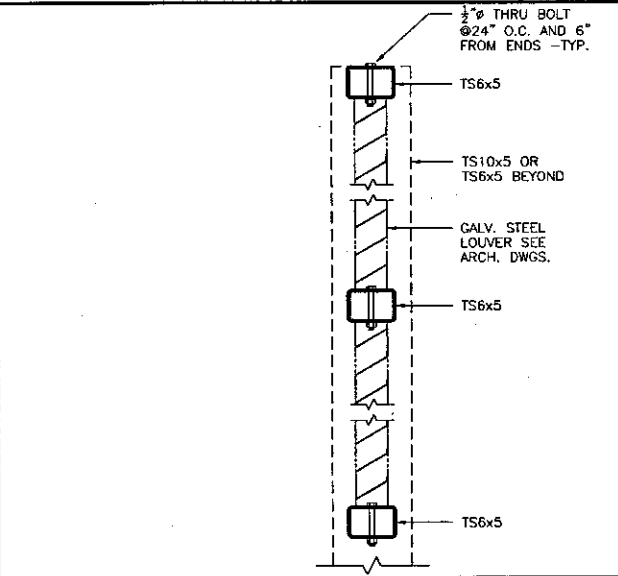
DETAIL 1" 3

TYP. MECH. SCREEN WALL ELEVATION 1/2" 4

DETAIL 1/2" 10



NOT USED



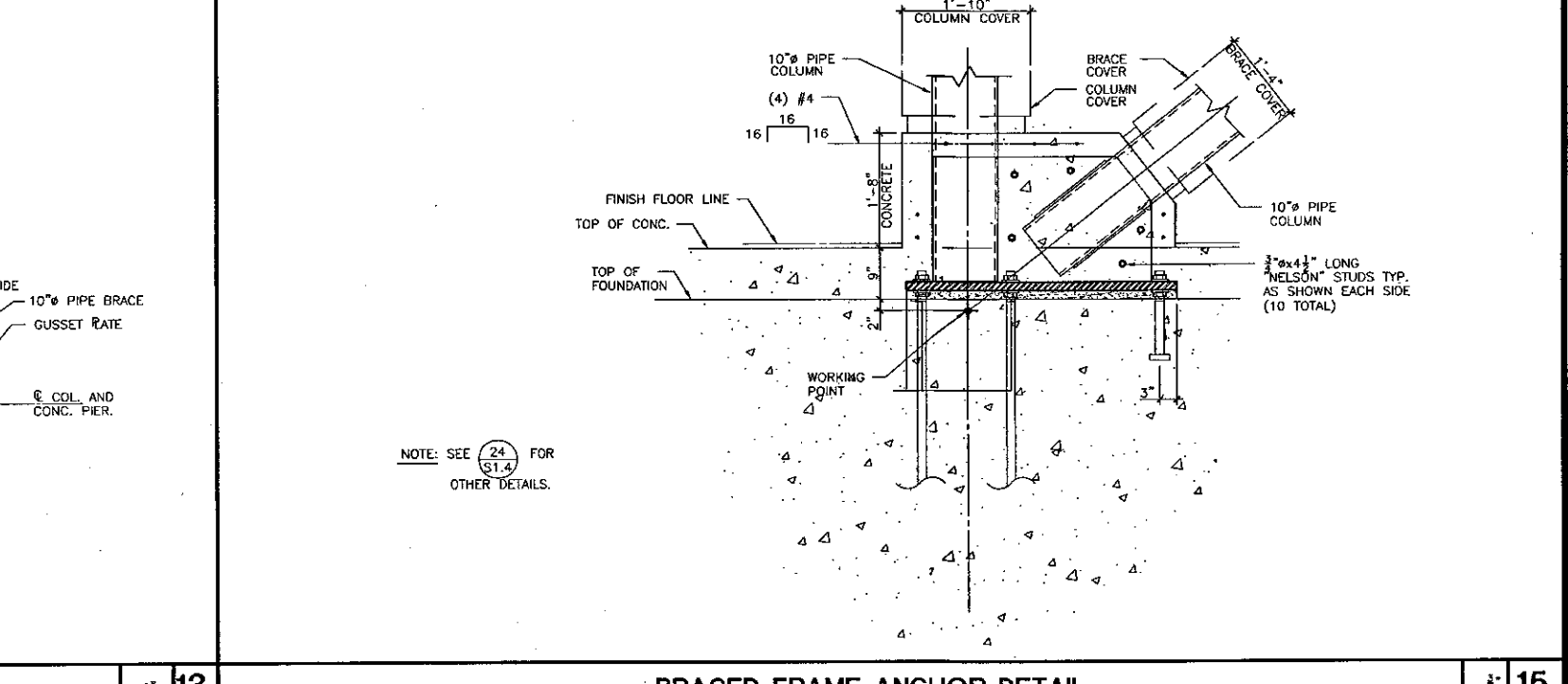
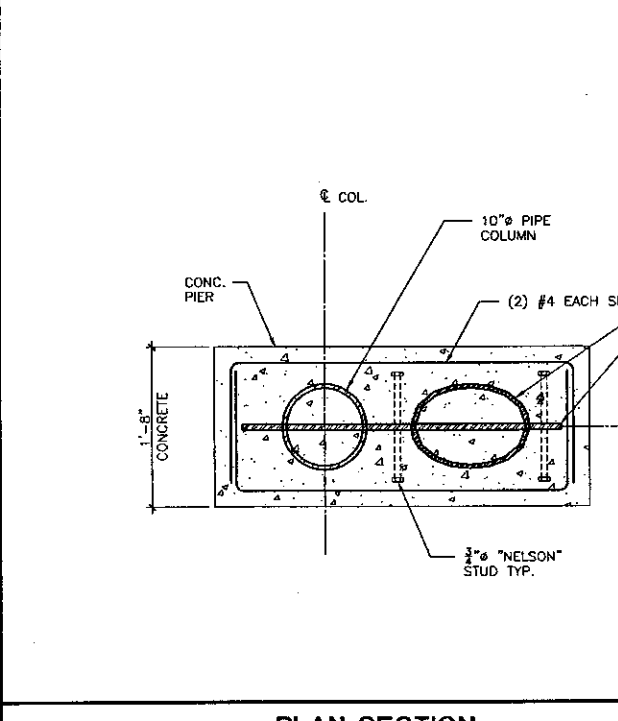
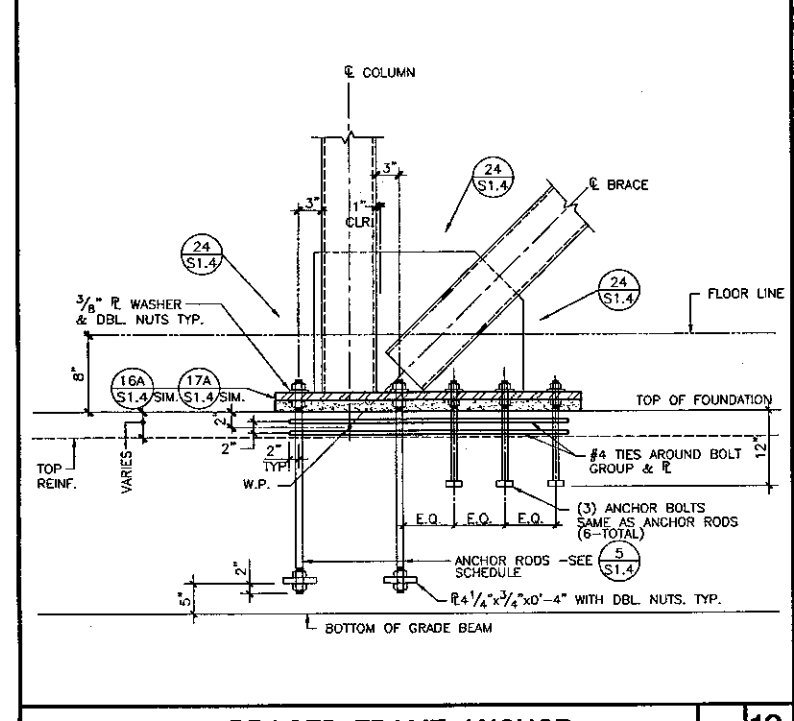
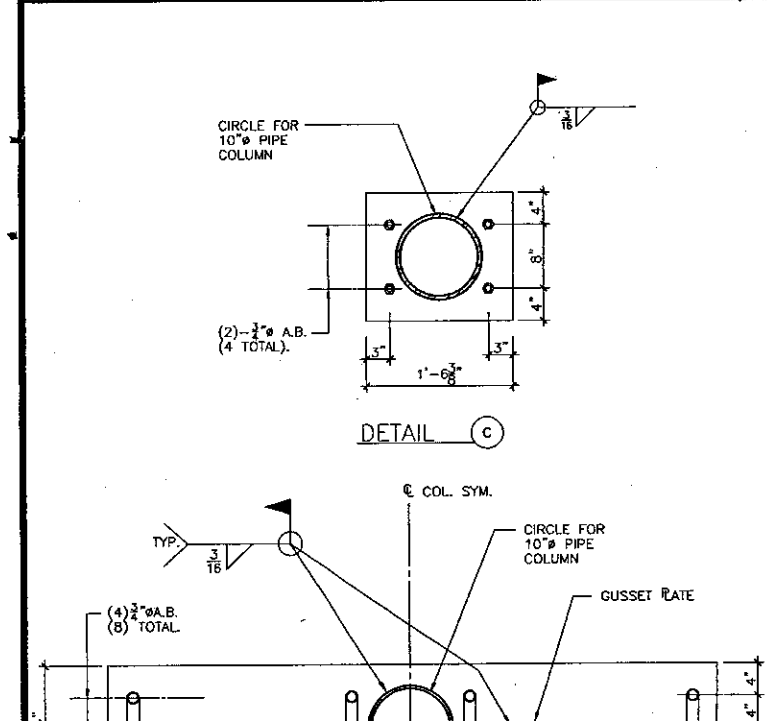
CONNECTION DETAIL 1" 5

7

SECTION - MECHANICAL SCREEN 1/2" 8

PLAN SECTIONS - MECHANICAL SCREEN 1/2" 9

DETAIL 1/2" 10

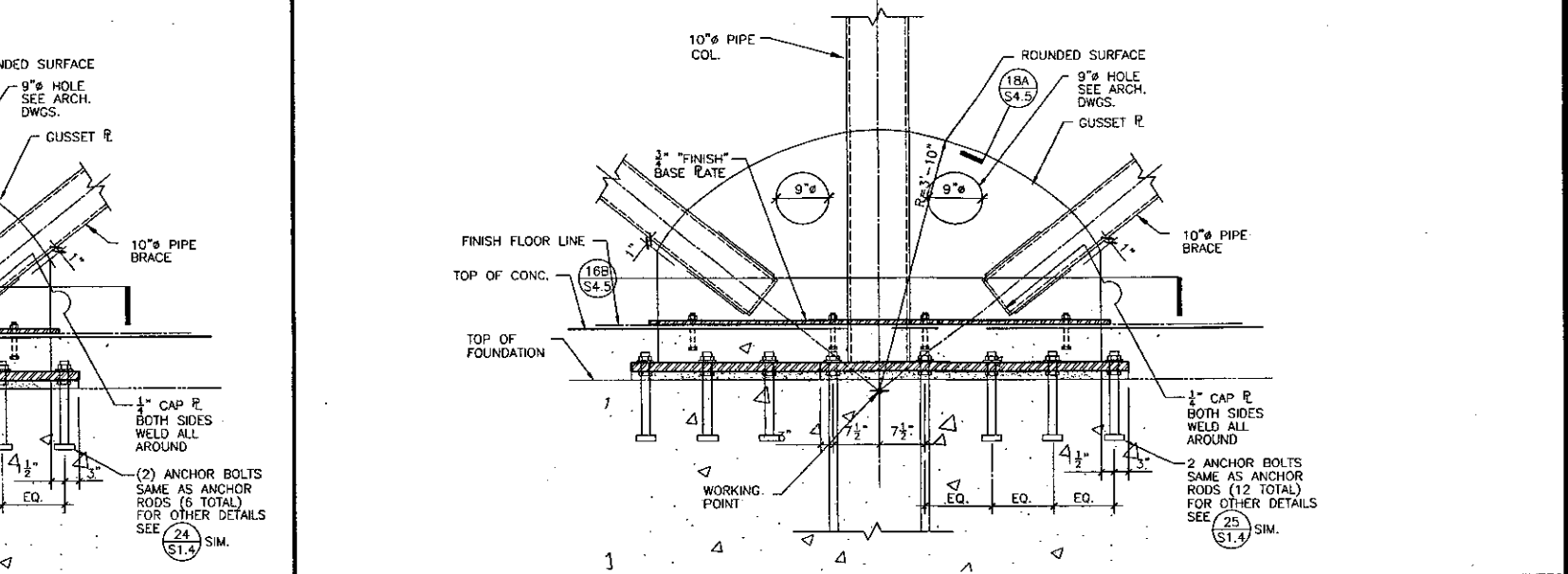
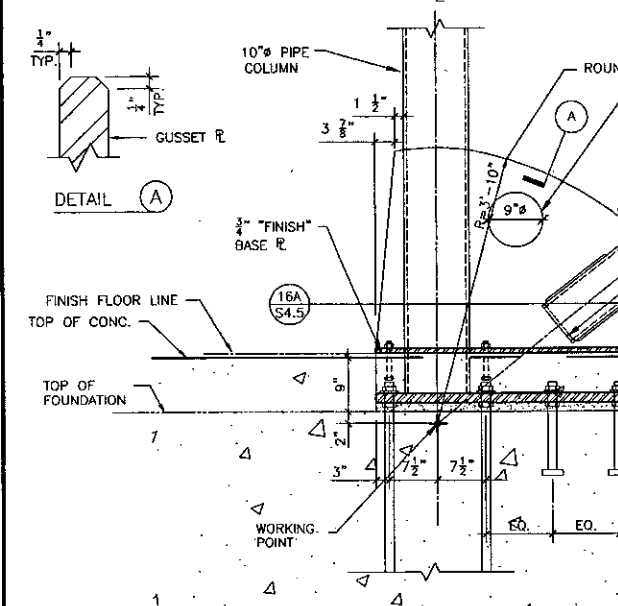
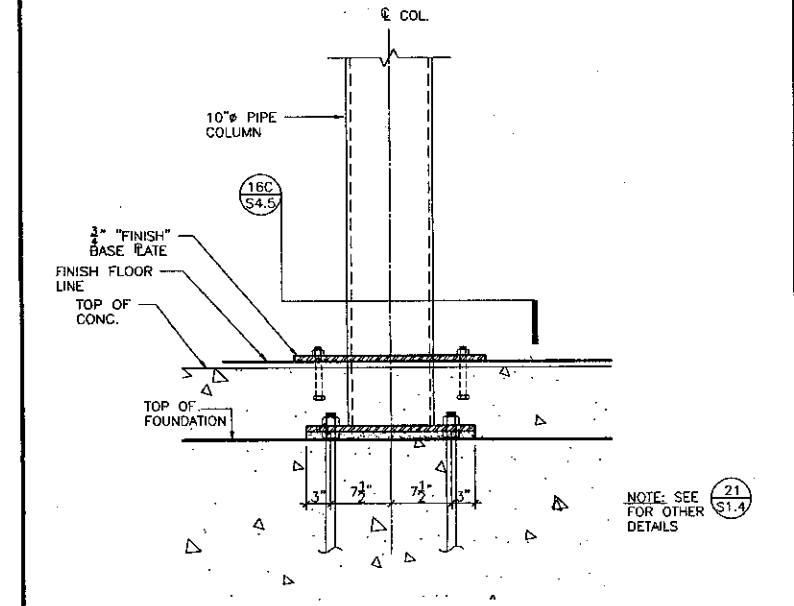
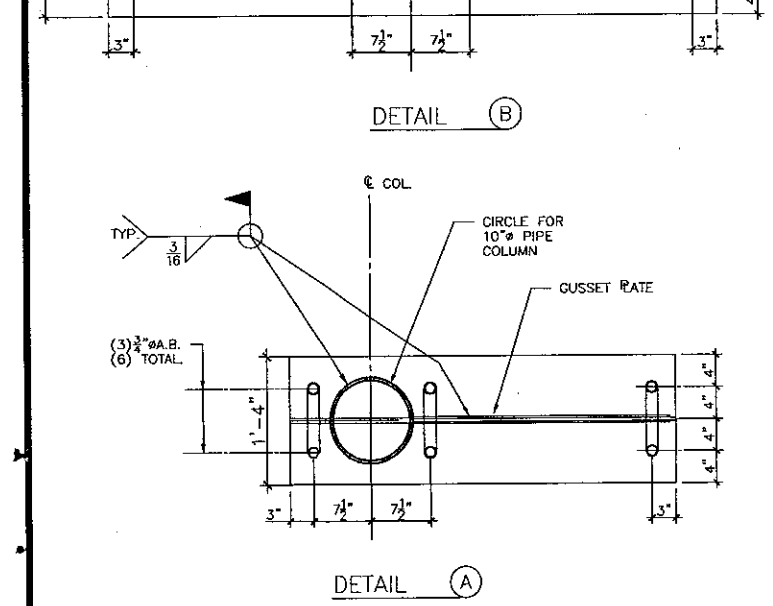


'FINISH' BASE PLATE DETAILS 1" 16

BRACED FRAME ANCHOR N.T.S. 12

PLAN SECTION 1" 13

BRACED FRAME ANCHOR DETAIL 1/2" 15

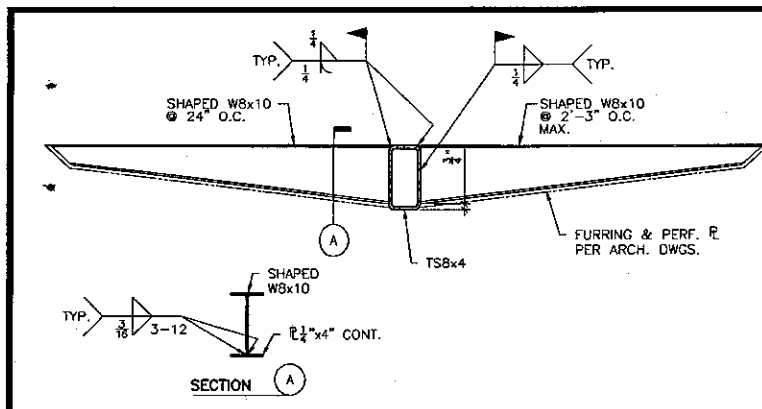


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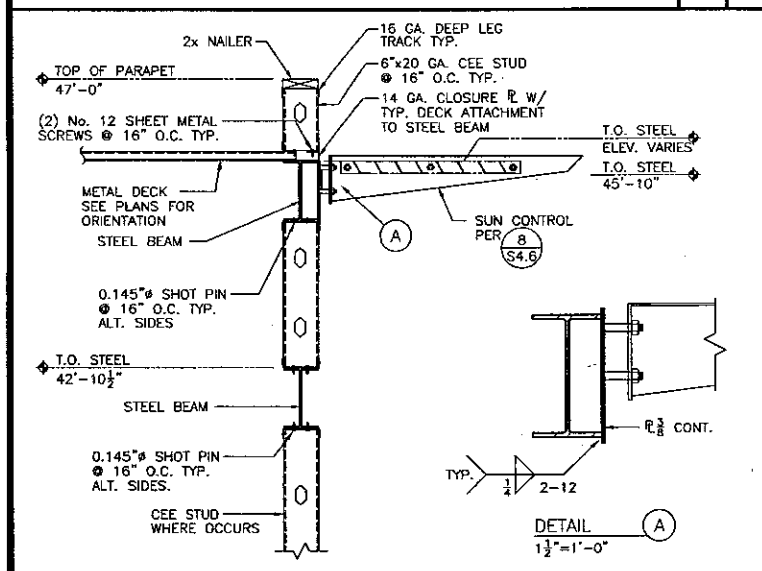
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BRACED FRAME ANCHOR DETAIL 1/2" 18

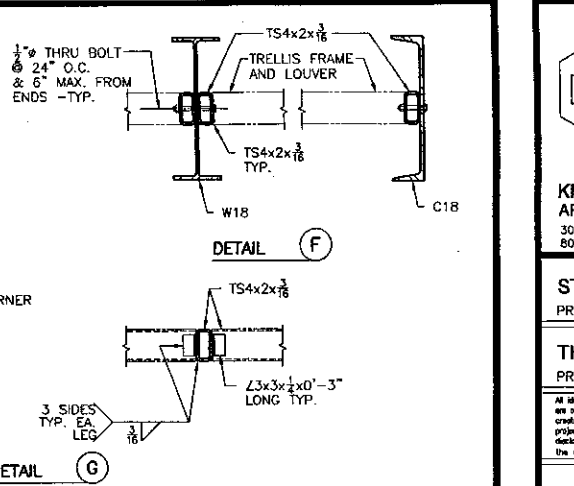
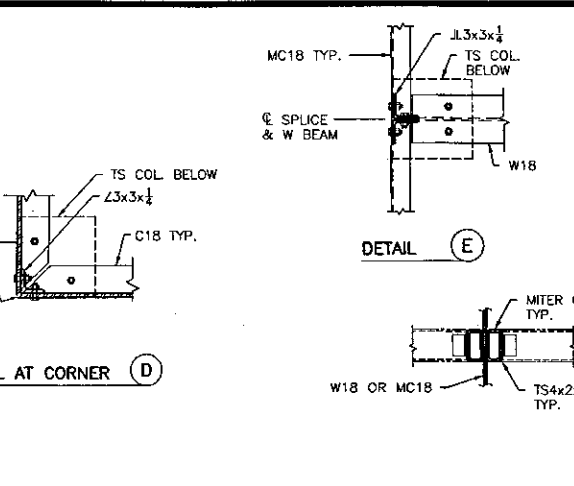
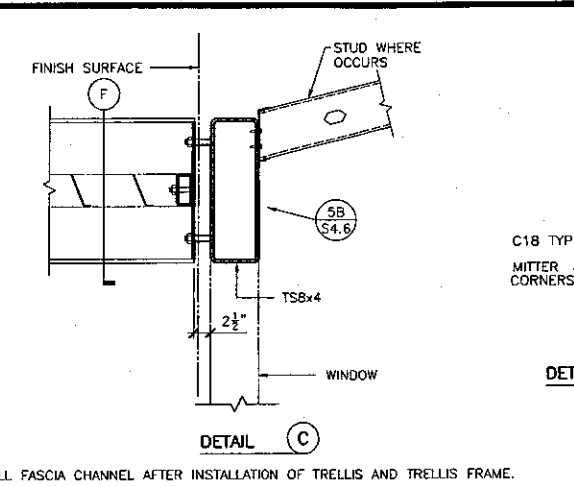
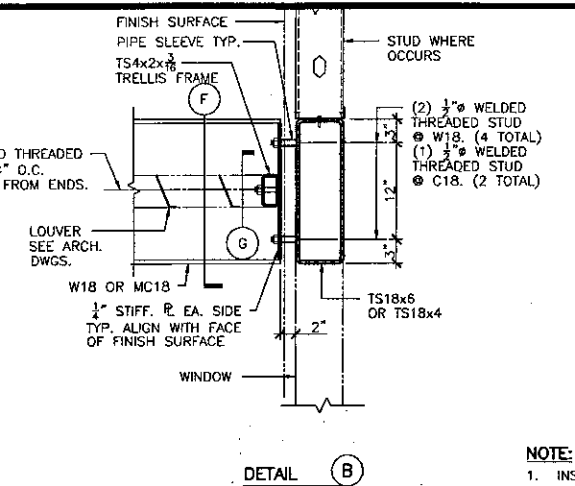
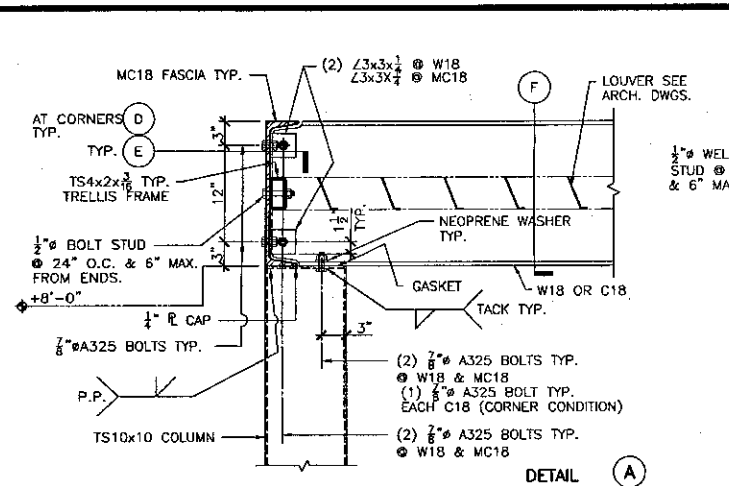
BRACED FRAME ANCHOR 1/2" 20



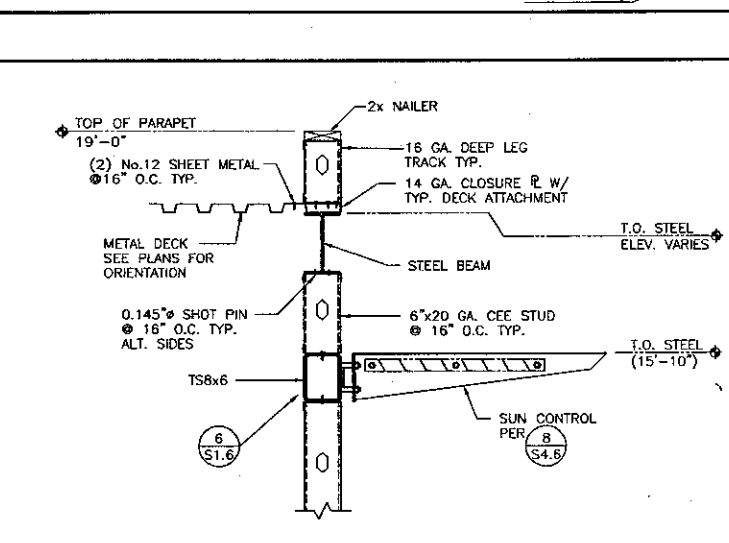
SUN-SCREEN SHELF DETAIL 1'-1"



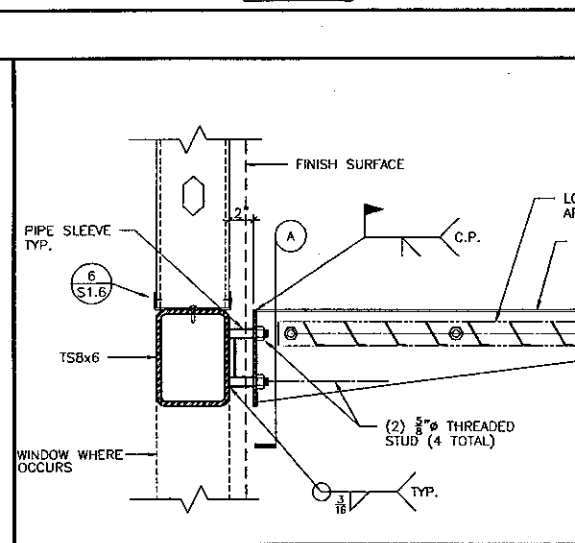
SECTION AT ELEVATOR TOWER 6



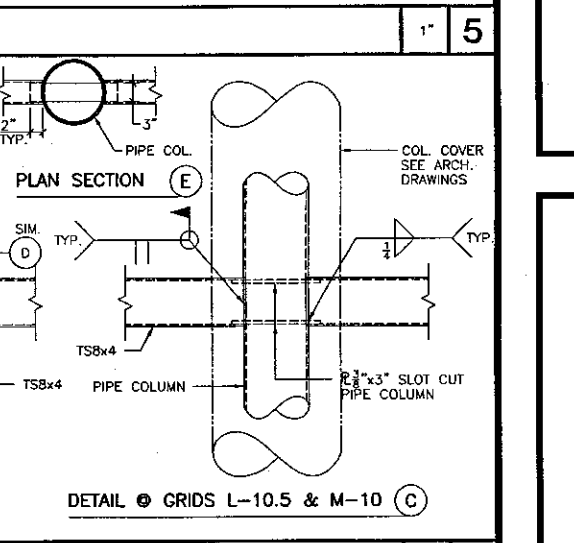
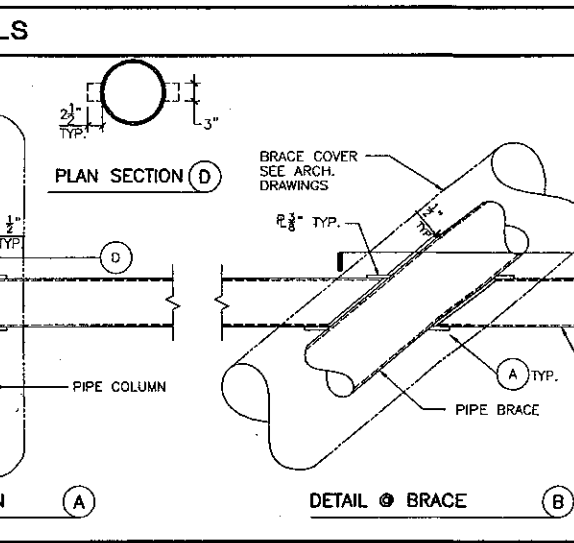
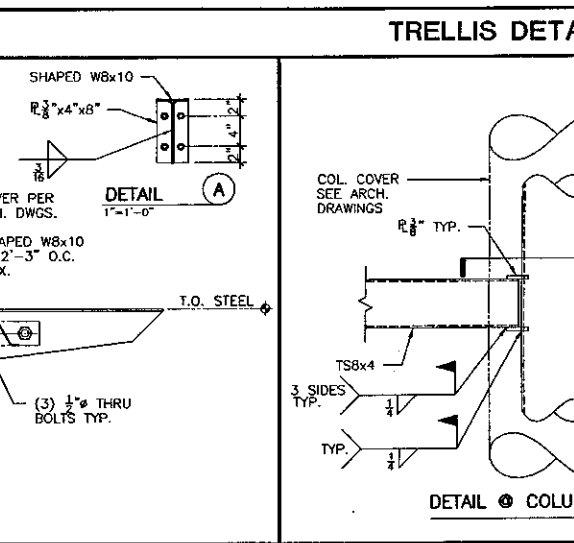
TRELLIS DETAILS 1'-5"



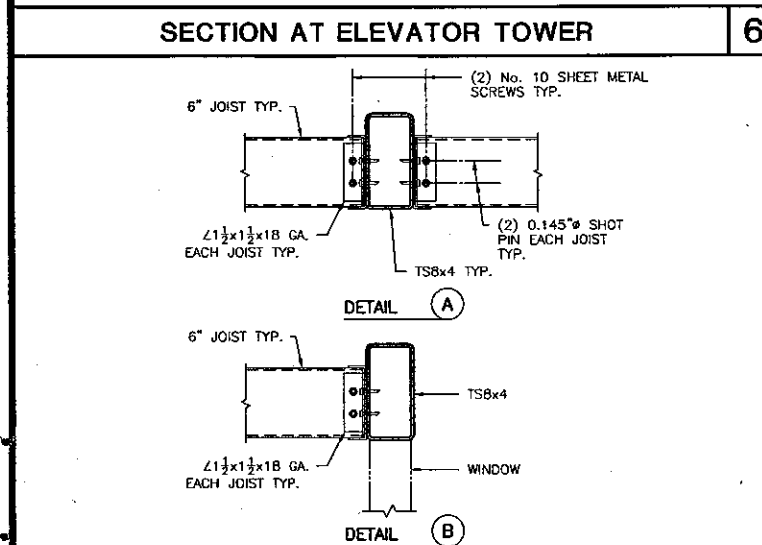
SECTION 7



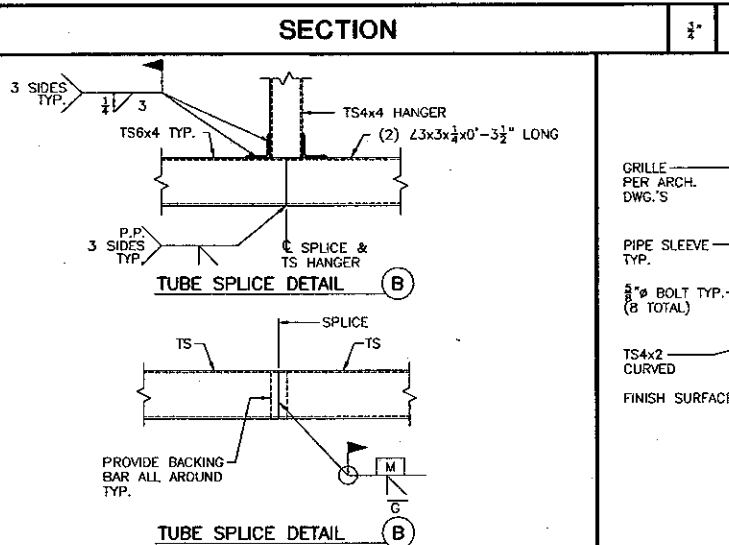
SUN CONTROL SECTION 1'-2"



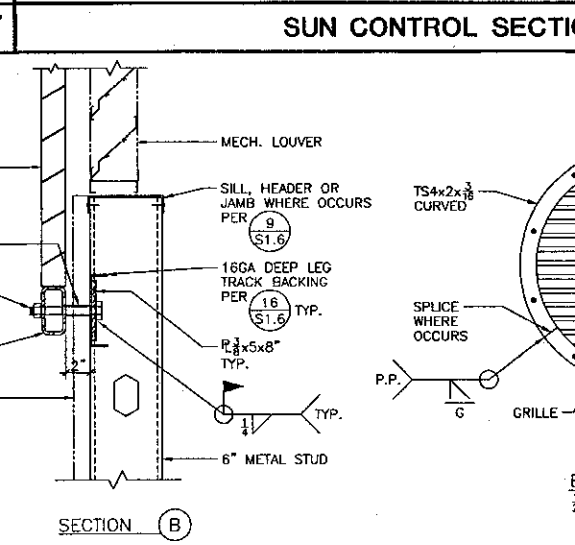
SUN SHELF CONNECTION DETAILS 1'-10"



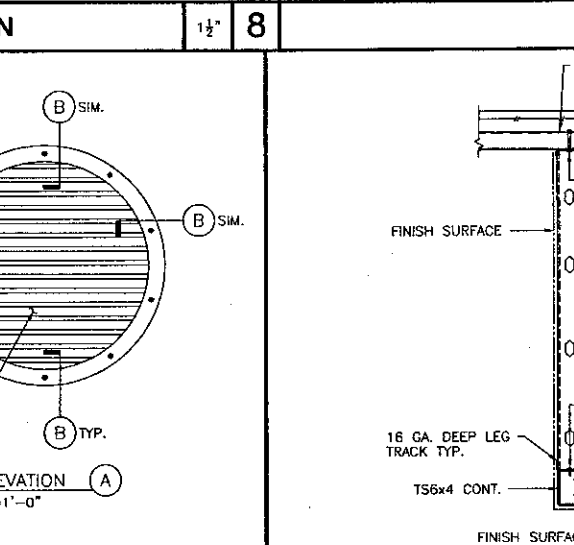
DETAILS 1'-11"



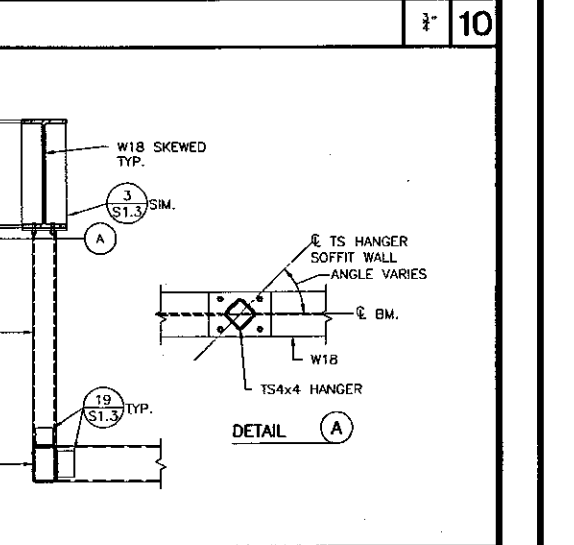
DETAILS 1'-12"



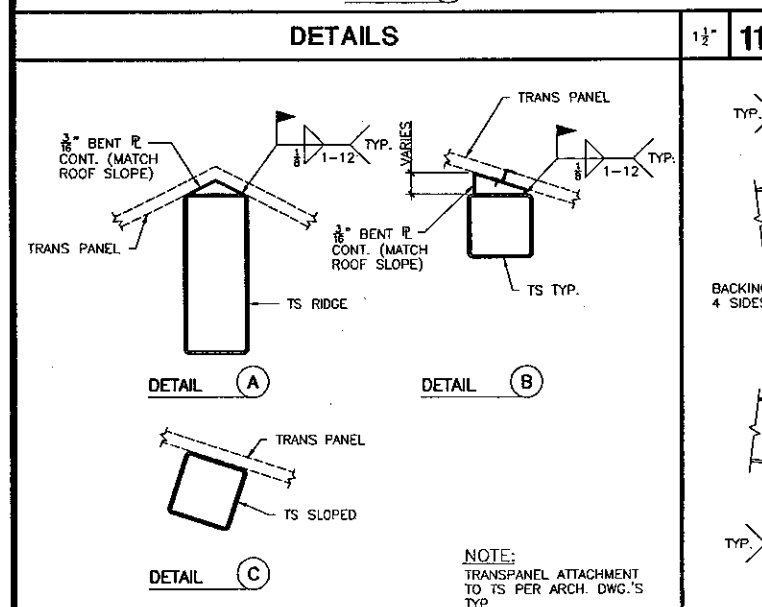
DECORATIVE GRILLE DETAILS 1'-13"



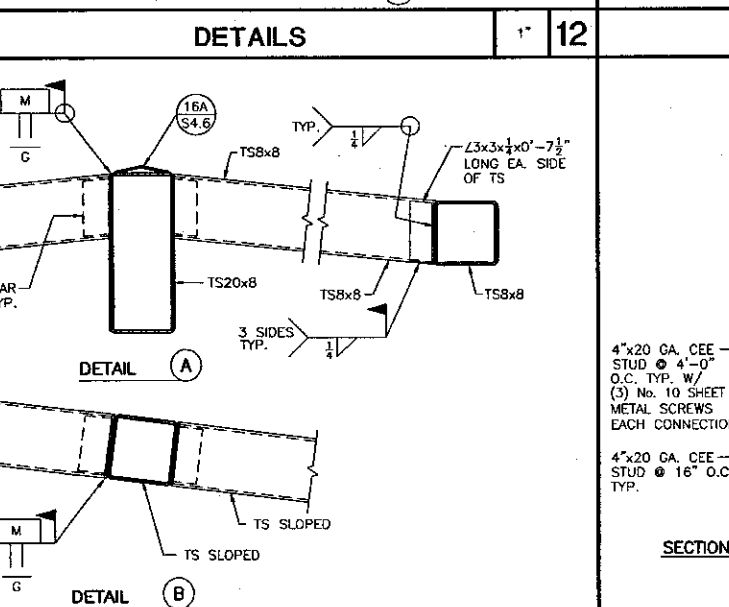
DETAIL 1'-14"



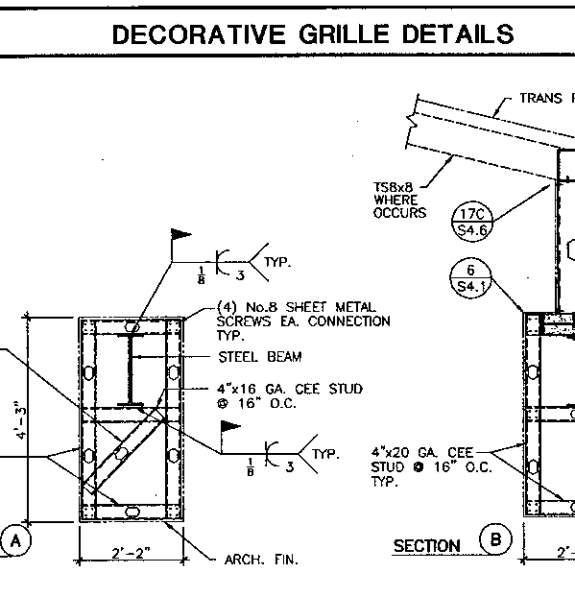
DETAIL 1'-15"



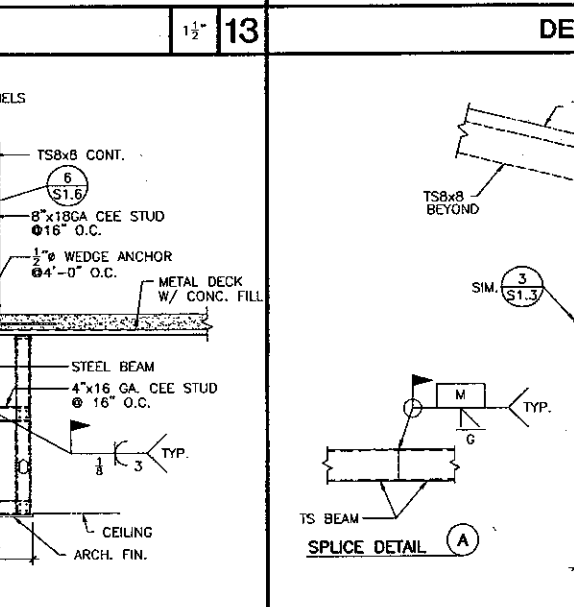
DETAILS 1'-16"



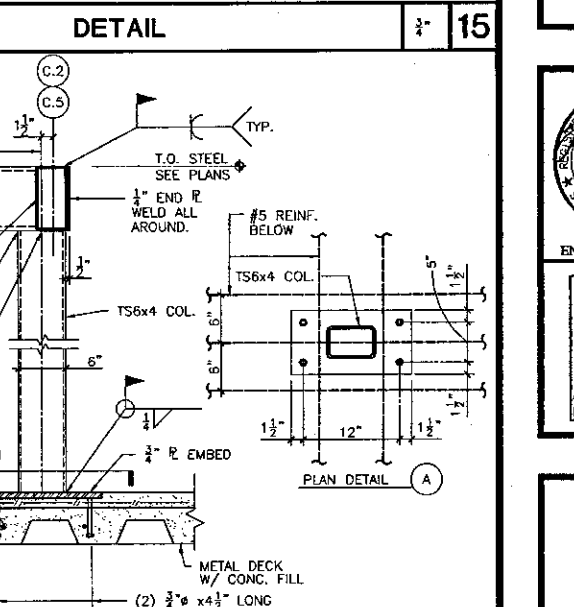
DETAILS 1'-17"



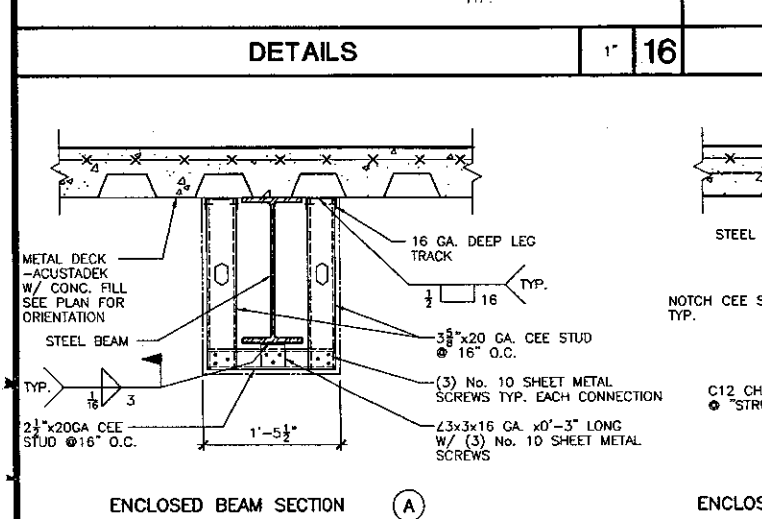
ATRIUM SECTIONS 1'-18"



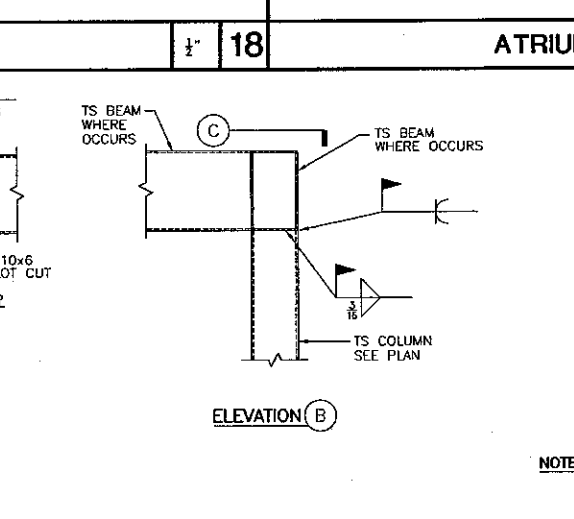
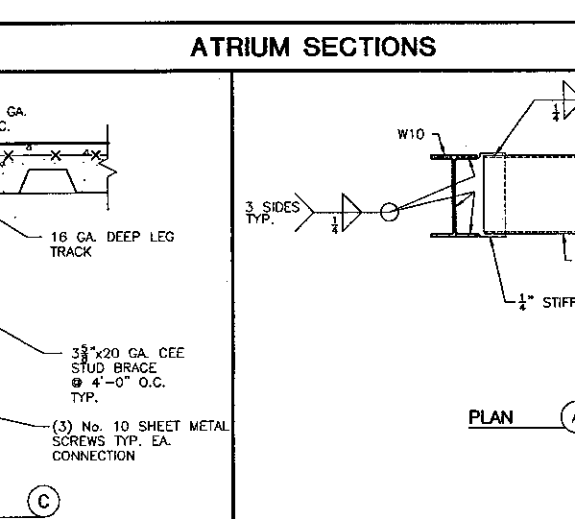
ATRIUM SECTION 1'-19"



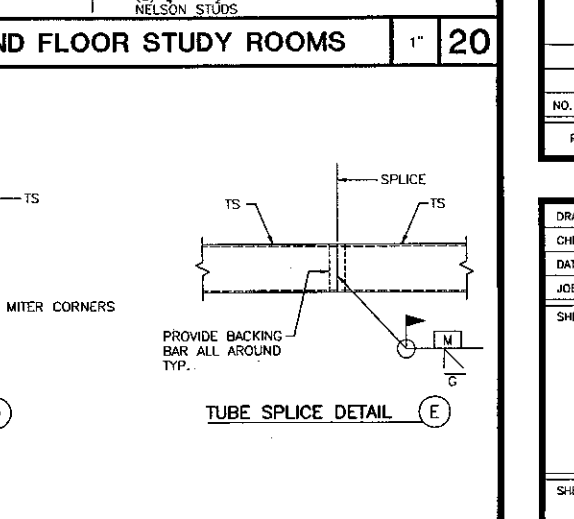
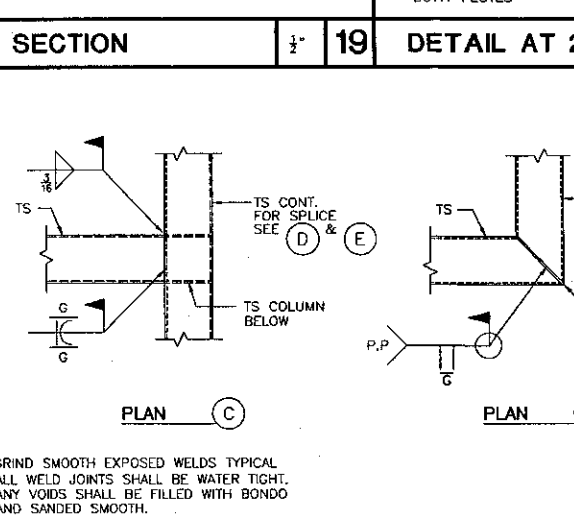
DETAIL AT 2ND FLOOR STUDY ROOMS 1'-20"



ENCLOSED BEAM SECTION AT "STRUT" 1'-22"



SECTIONS 1'-22"



EXPOSED TS CONNECTION DETAILS 1'-25"

KRUGER BENSEN ZIEMER ARCHITECTS, INC.
 30 W. ARRILAGA SANTA BARBARA, CA 93101
 805/963.1726 93101

STEVE DOWTY, A.I.A.
 PRINCIPAL IN CHARGE

THERRY H. CASSAN
 PROJECT DESIGNER

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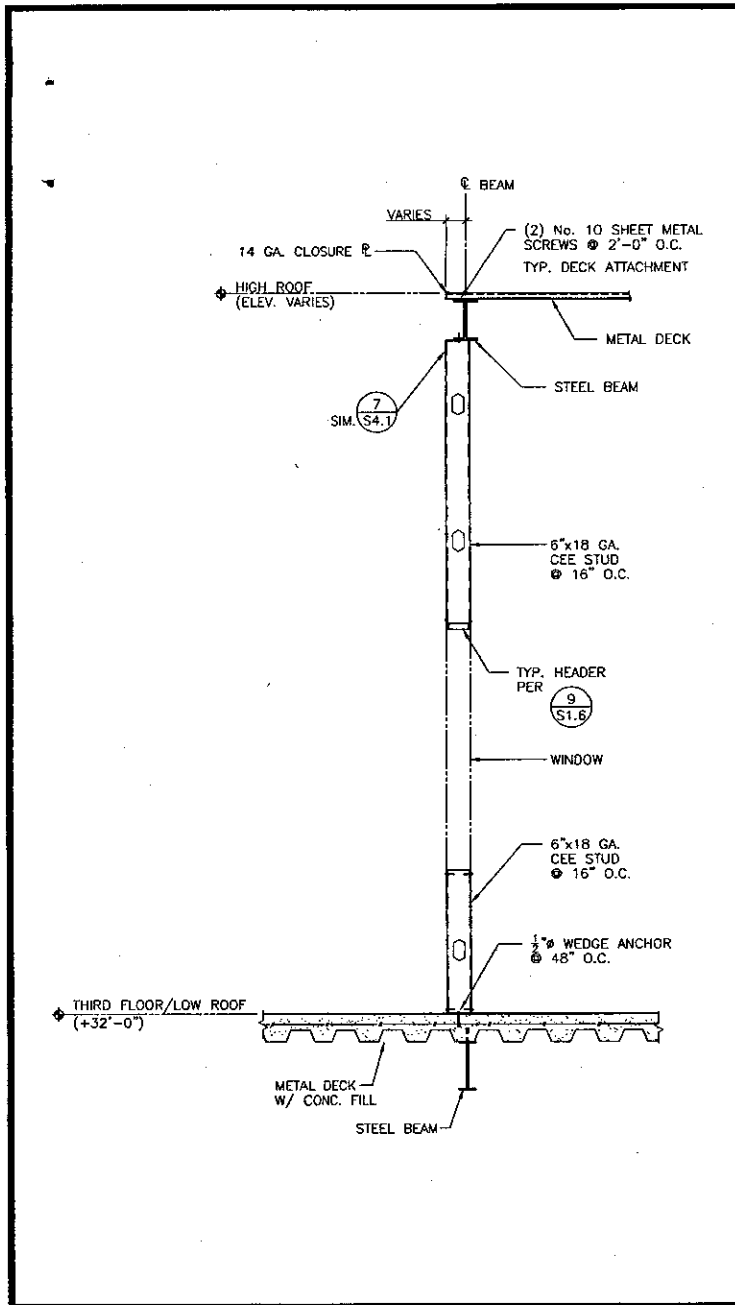
KANDA TSO
 KANDA AND TSO ASSOCIATES
 CONSULTING STRUCTURAL ENGINEERS
 511 MISSION STREET
 SOUTH PASADENA, CA 91030-3035
 TEL: (626) 441-1211 FAX: (626) 441-1011

VENTURA COLLEGE LEARNING RESOURCES CENTER
 Ventura County Community College District
 4667 Telegraph Road
 Ventura, CA 93003

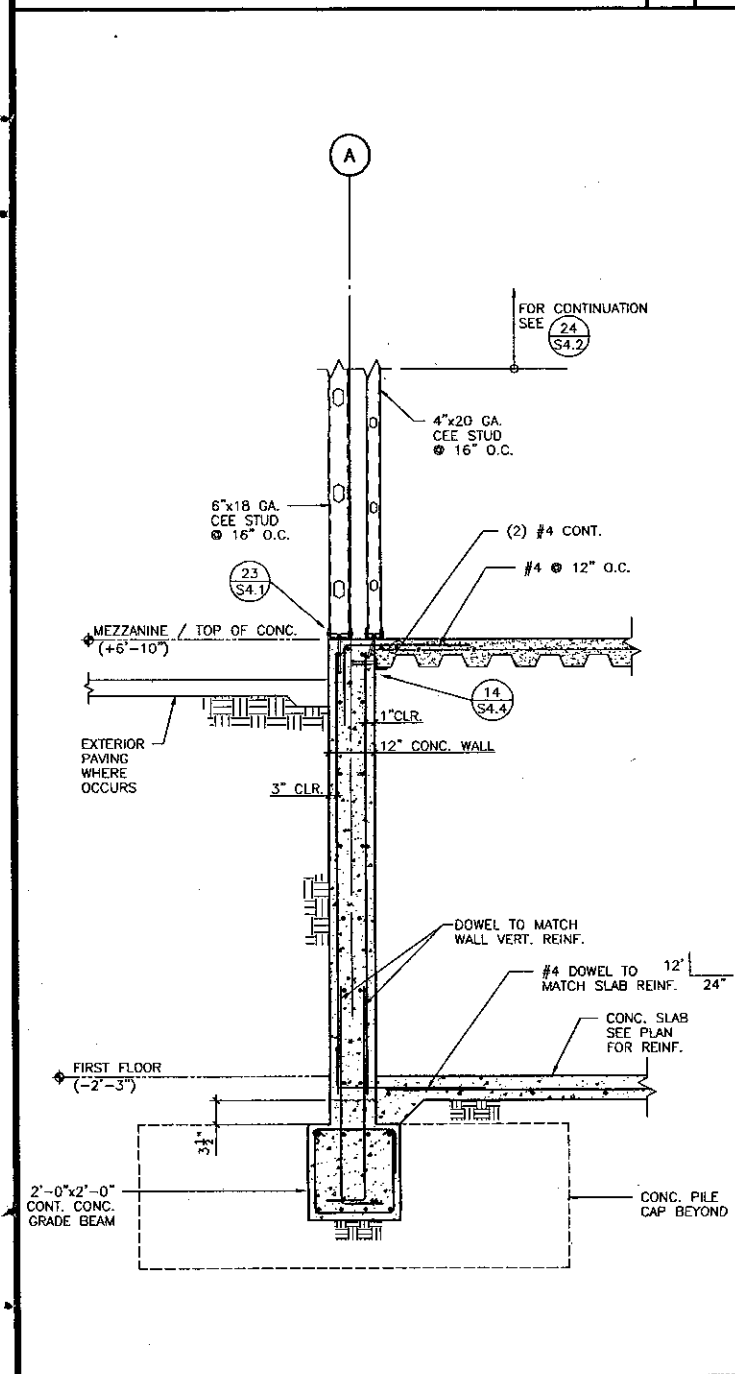
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 ARCHITECT'S STAMP
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 DIVISION OF THE STATE ARCHITECT
 FILE NUMBER: SEC1
 APPL 03-104498
 DATE: 11/6/01

NO.	DESCRIPTION	DATE	BY

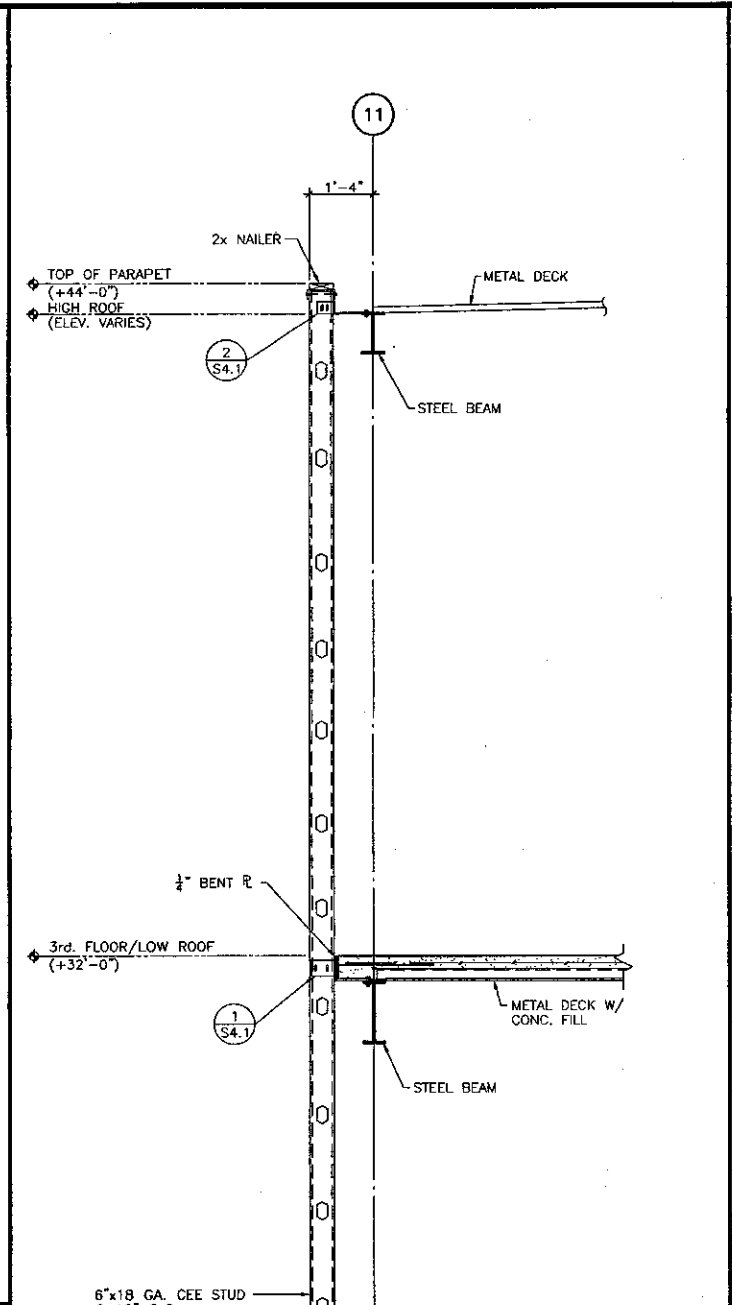
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 CHECKED: L. TSO/B. MURDOCK
 DATE: 09/24/01
 JOB NO.: 9318
 SHEET TITLE: SECTIONS AND DETAILS
 SHEET: S4.6



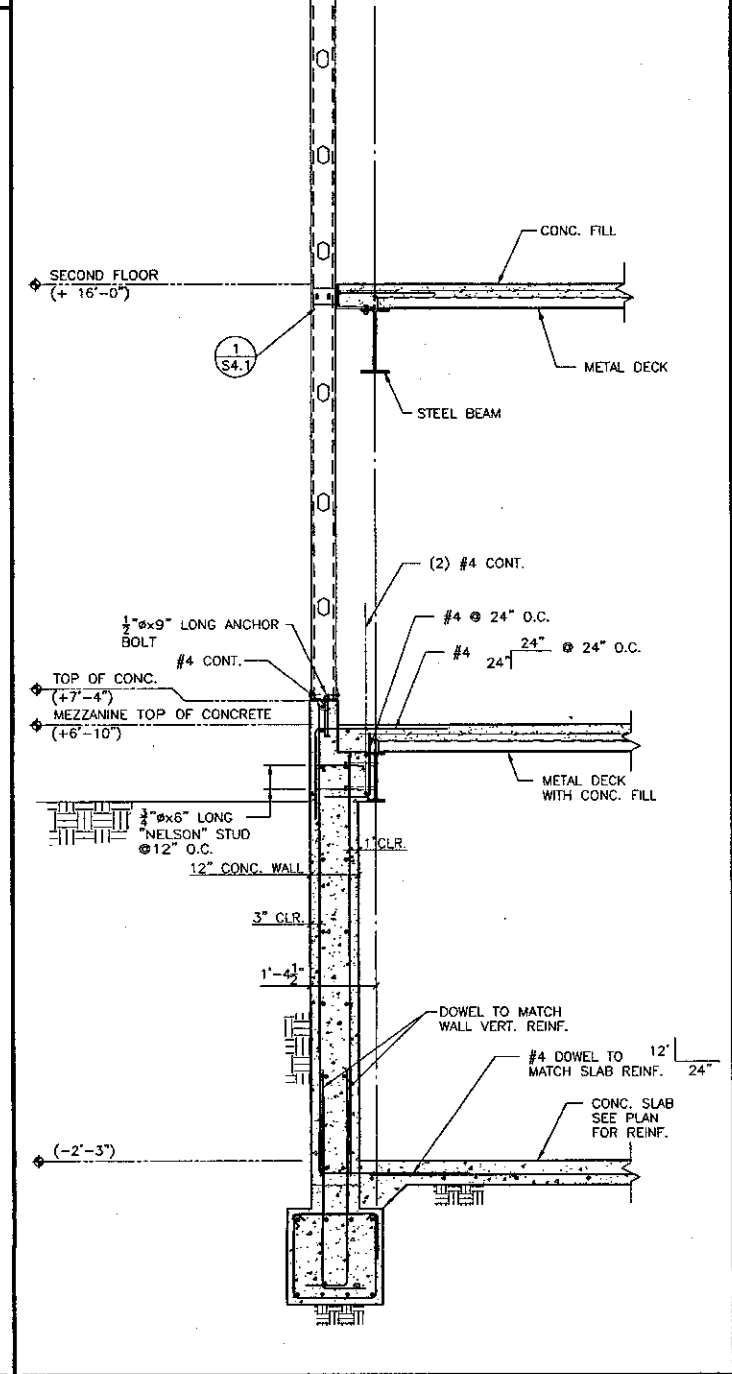
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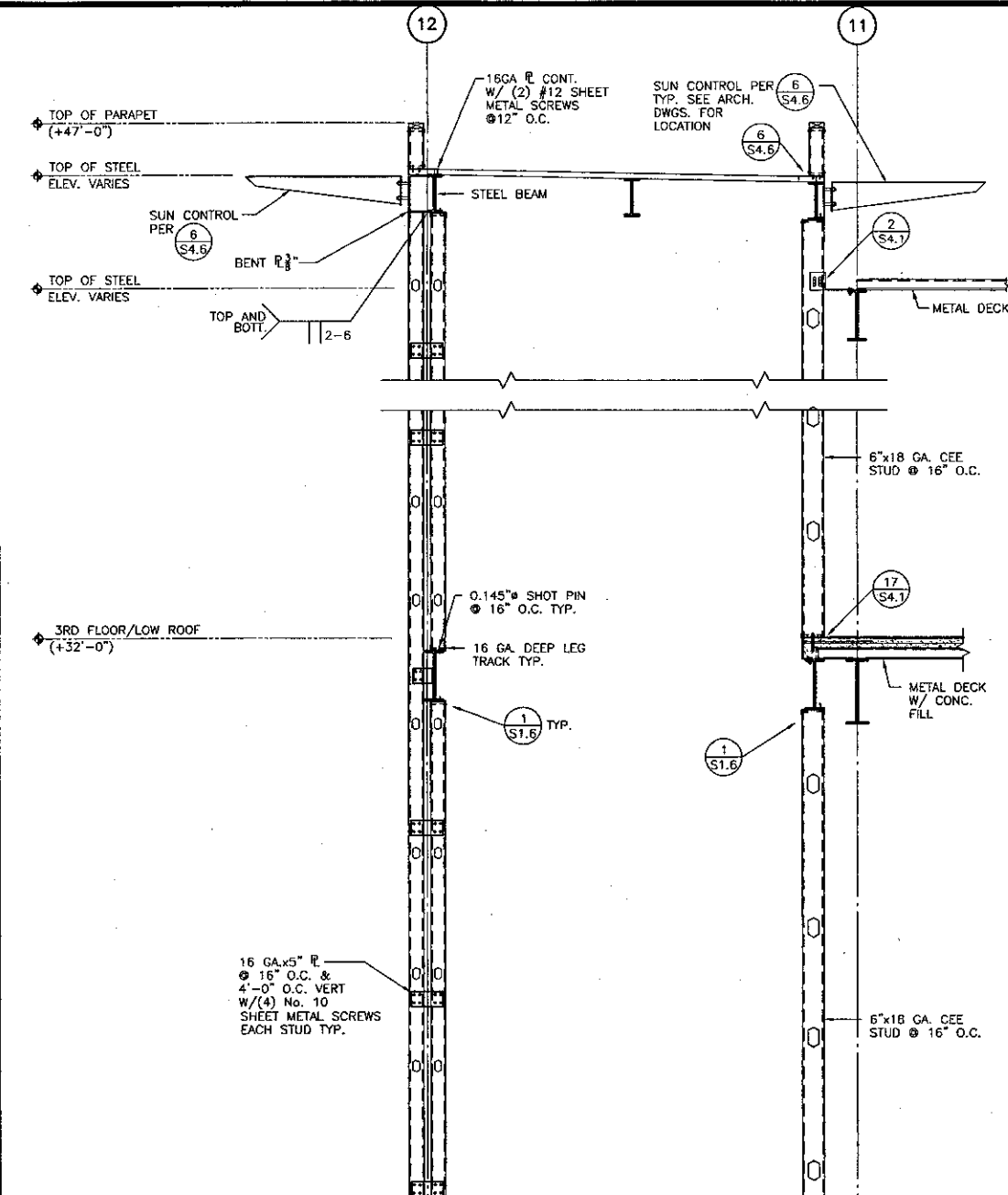
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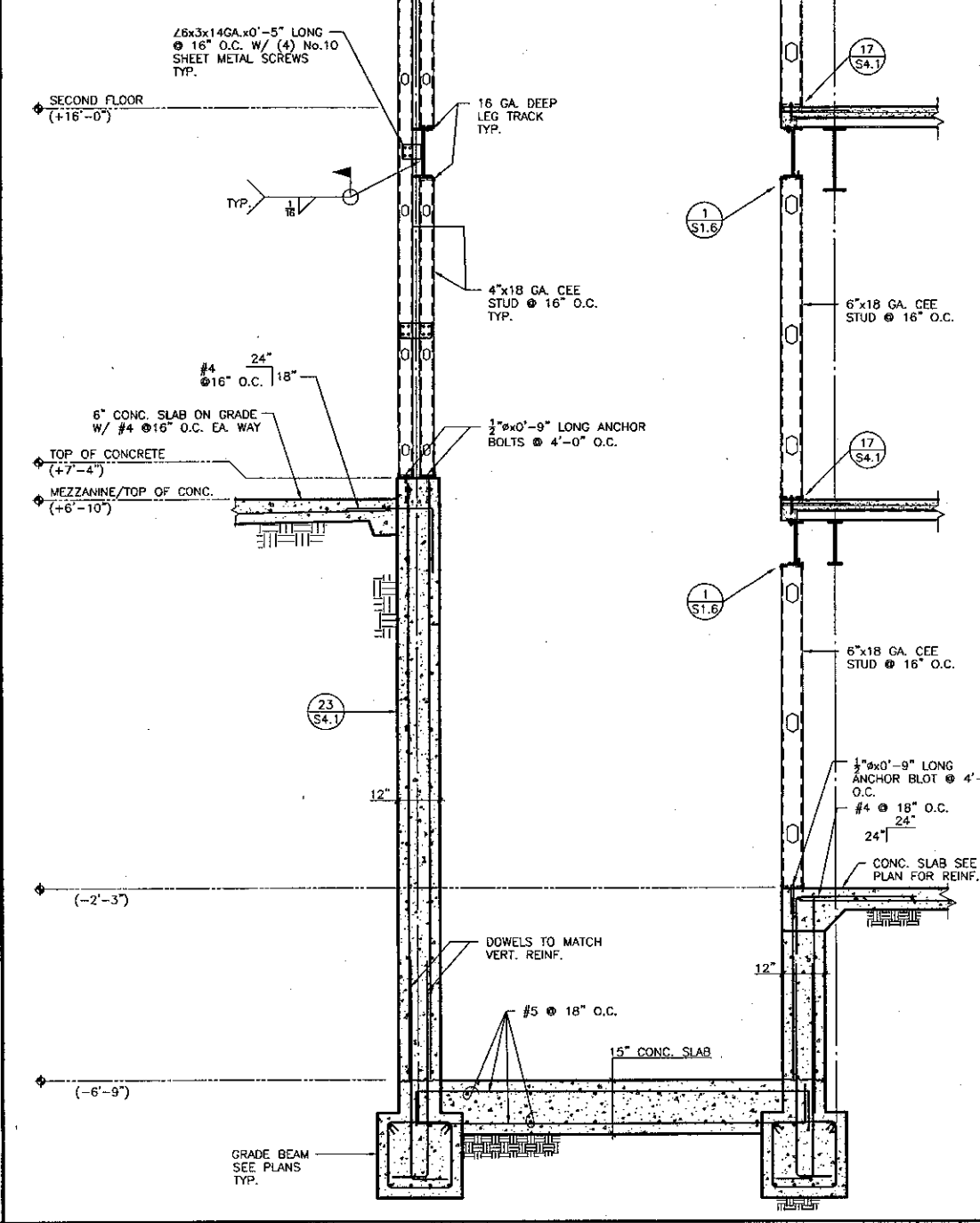
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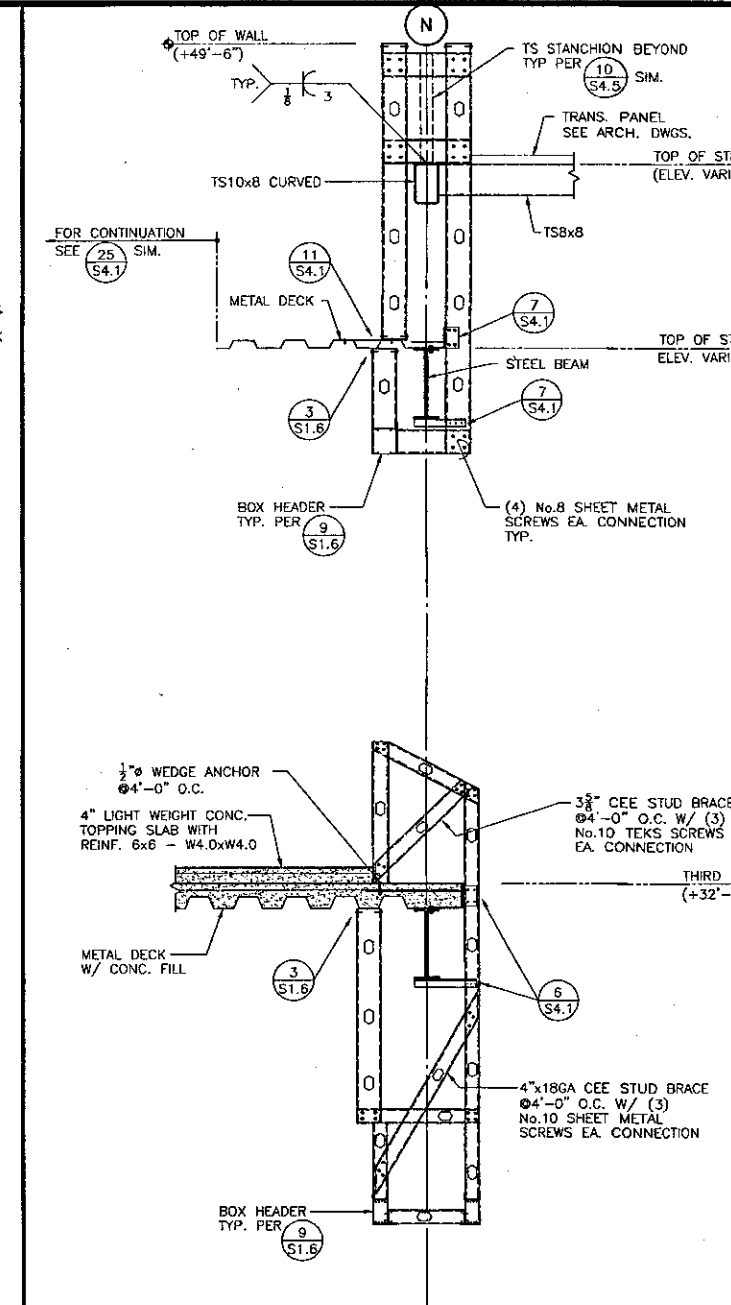
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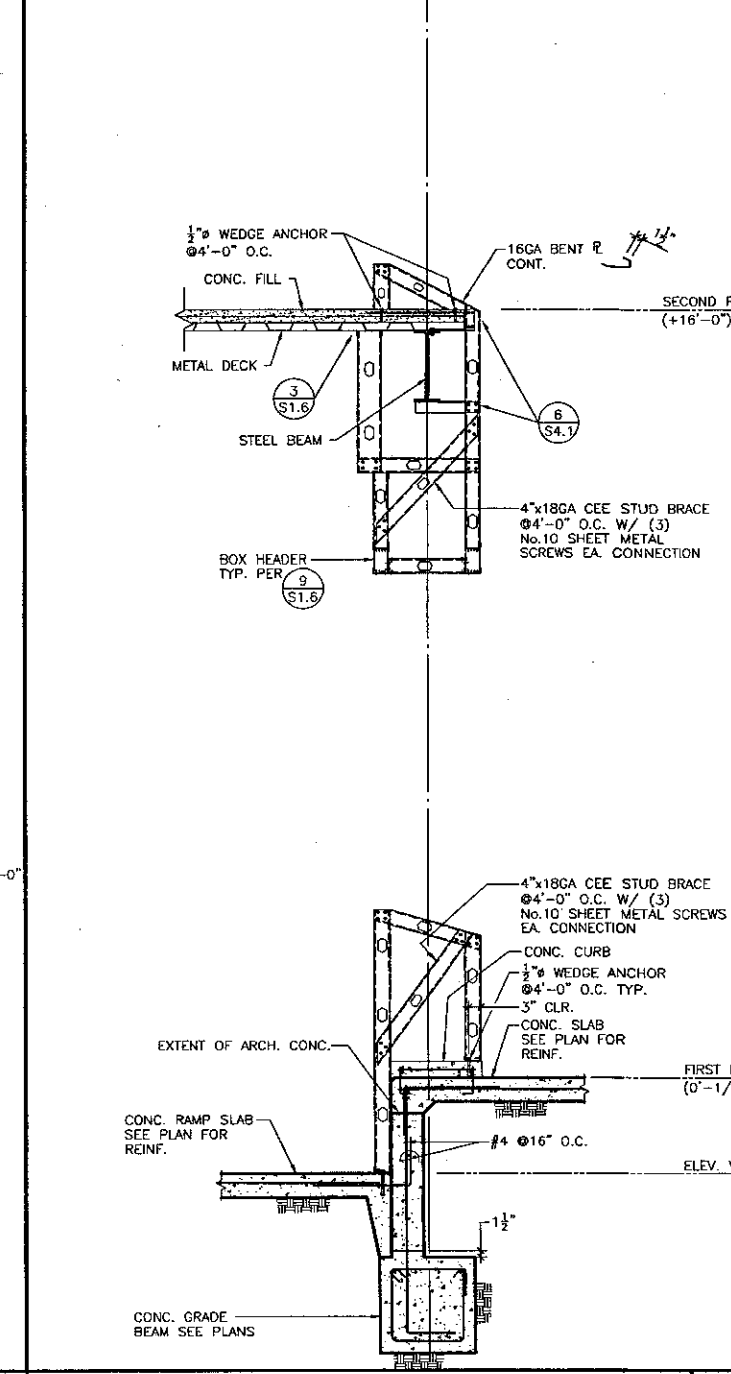
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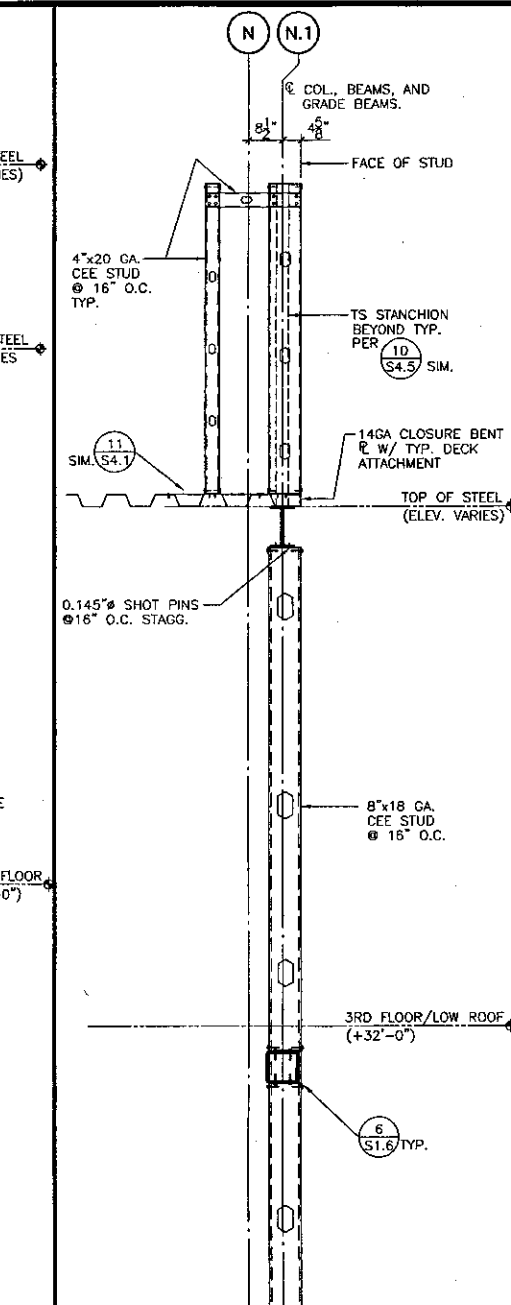
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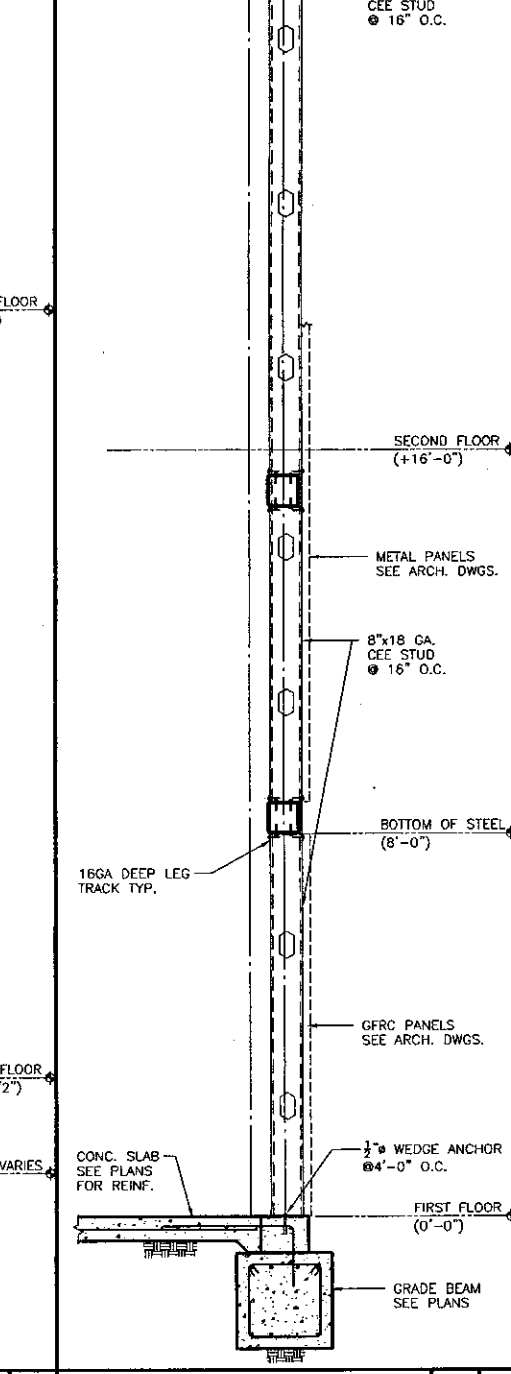
WALL SECTION 24



WALL SECTION 24



WALL SECTION 25



WALL SECTION 25

KRBZ
 KRUGER BENSON ZIEMER ARCHITECTS, INC. AIA
 30 W. ARRELLA CA. SANTA BARBARA, CA 93101
 805/963.1725

STEVE DOWTY, A.I.A.
 PRINCIPAL IN CHARGE

THIERRY H. CASSAN
 PROJECT DESIGNER

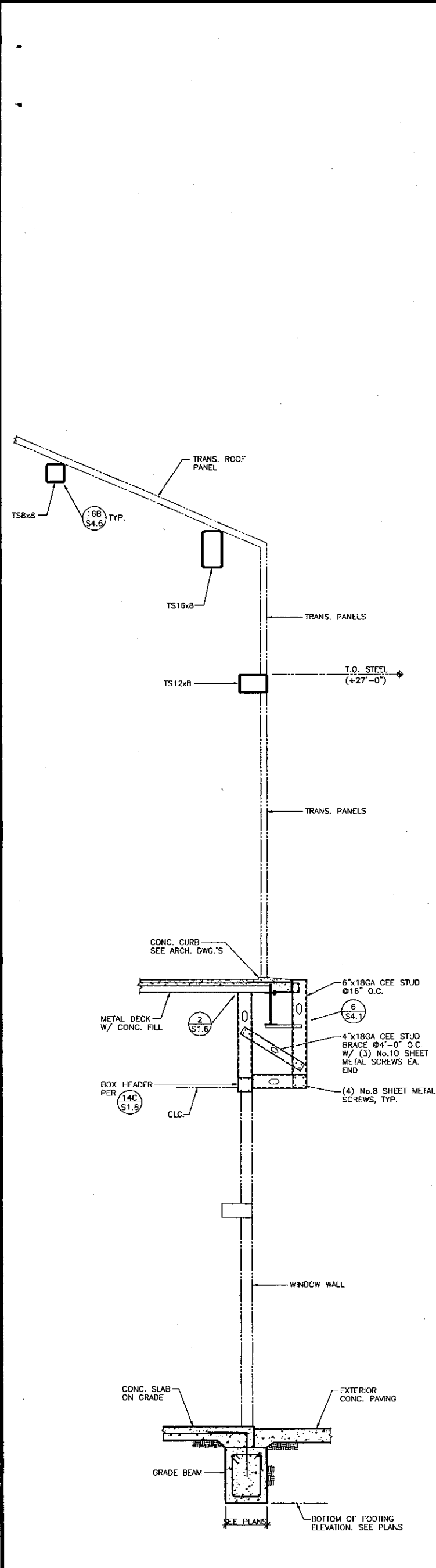
KANDA TSO
 KANDA AND TSO ASSOCIATES
 CONSULTING STRUCTURAL ENGINEERS
 511 MISSION STREET SOUTH PASADENA, CA 91030-3035
 TEL (626) 441-2111 FAX (626) 441-1011

VENTURA COLLEGE LEARNING RESOURCES CENTER
 Ventura County Community College District
 4667 Telegraph Road
 Ventura, CA 93003

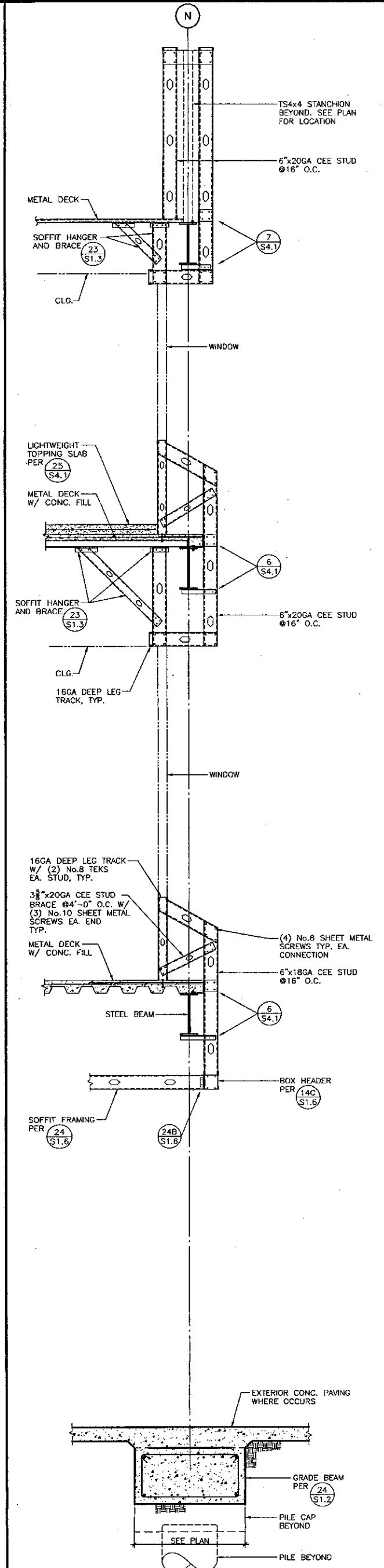
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 APP# 03-104498
 DATE: 09/24/01

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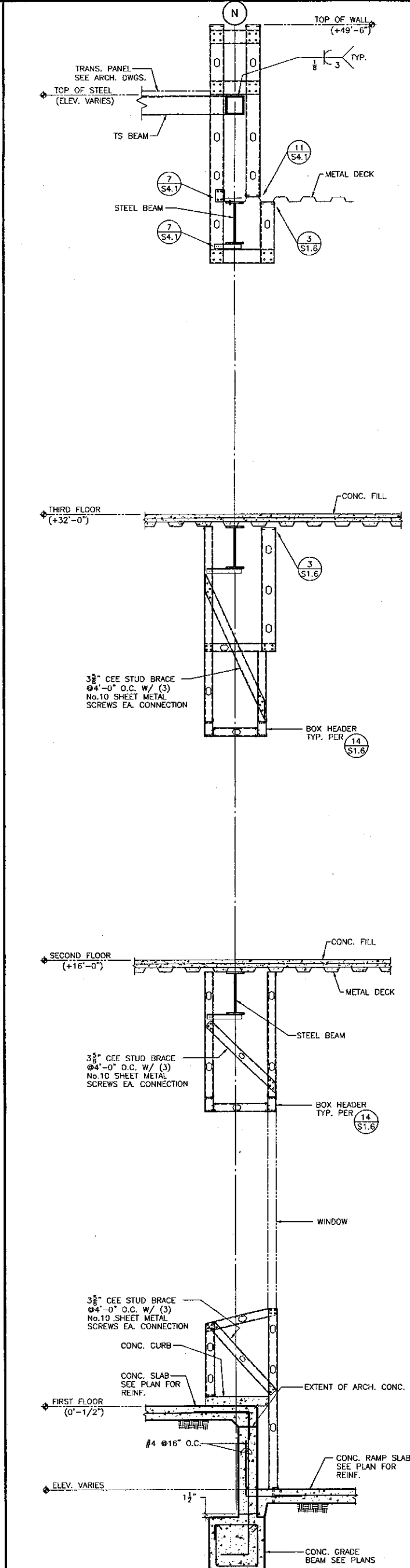
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 CHECKED: L. TSO/B. MURDOCK
 DATE: 09/24/01
 JOB NO.: 9318
 SHEET TITLE: SECTIONS AND DETAILS
 SHEET: S4.7



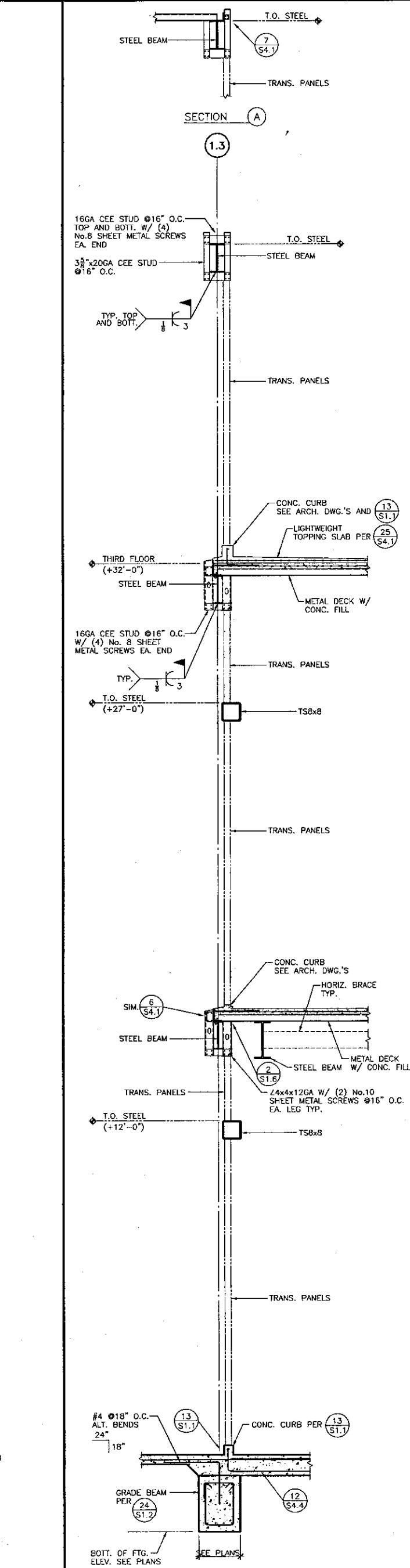
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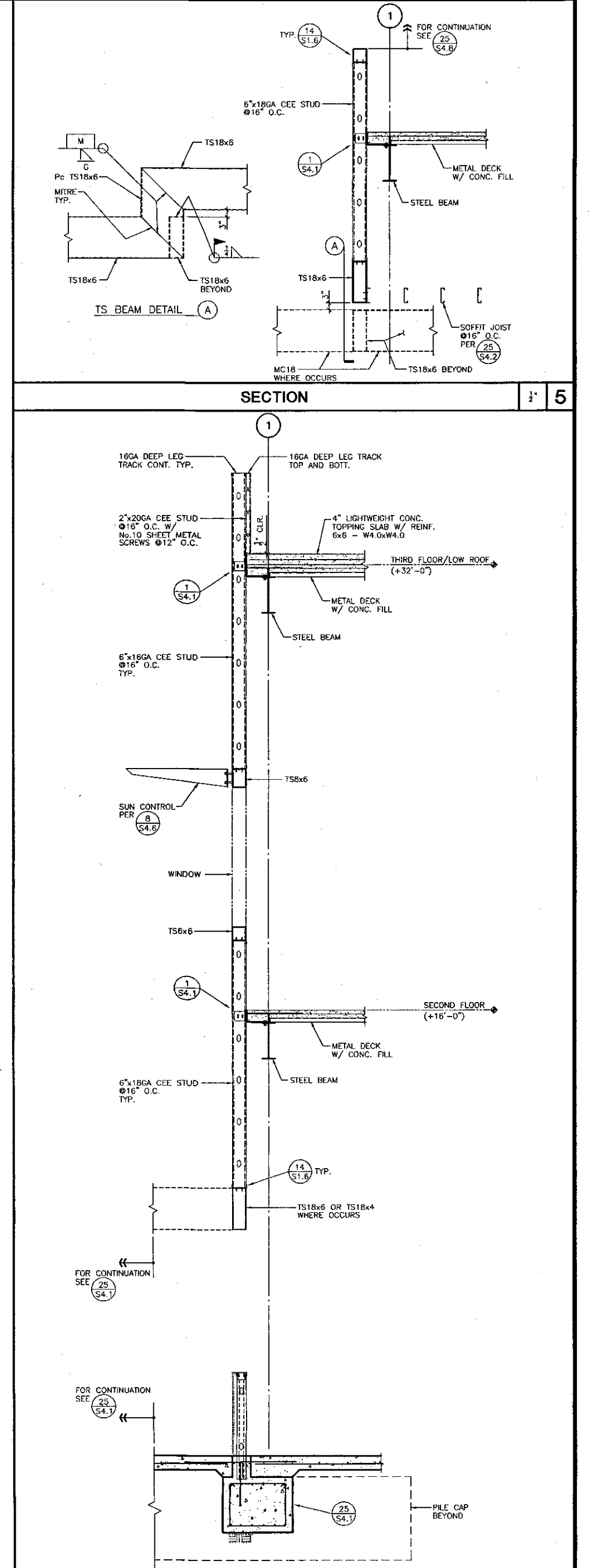
WALL SECTION 22



WALL SECTION 23



WALL SECTION 24



WALL SECTION 25

KRBZ
 KRUGER BENSEN ZIEMER ARCHITECTS, INC. AIA
 30 W. ARRELLAGA, SANTA BARBARA, CA 93101
 805/963.1725

STEVE DOWTY, A.I.A.
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KANDA | TSO
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 511 MISSION STREET, SOUTH PASADENA, CA 91030-3035
 TEL: (626) 441-1211 FAX: (626) 441-1011

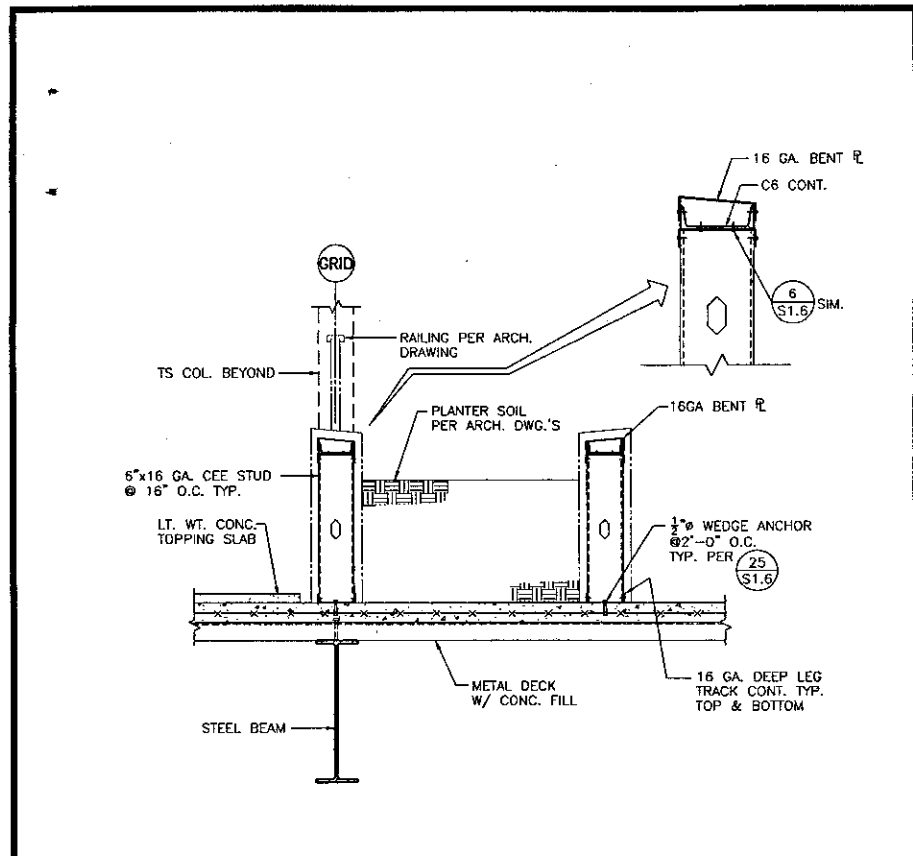
VENTURA COLLEGE LEARNING RESOURCES CENTER
 Ventura County Community College District
 4667 Telegraph Road
 Ventura, CA 93003

ENGINEER'S STAMP
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 Exp. 3-31-2008
 DIVISION OF THE STATE ARCHITECT
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 APPL 03-104498
 AC _____ FLS _____ SS _____
 DATE _____

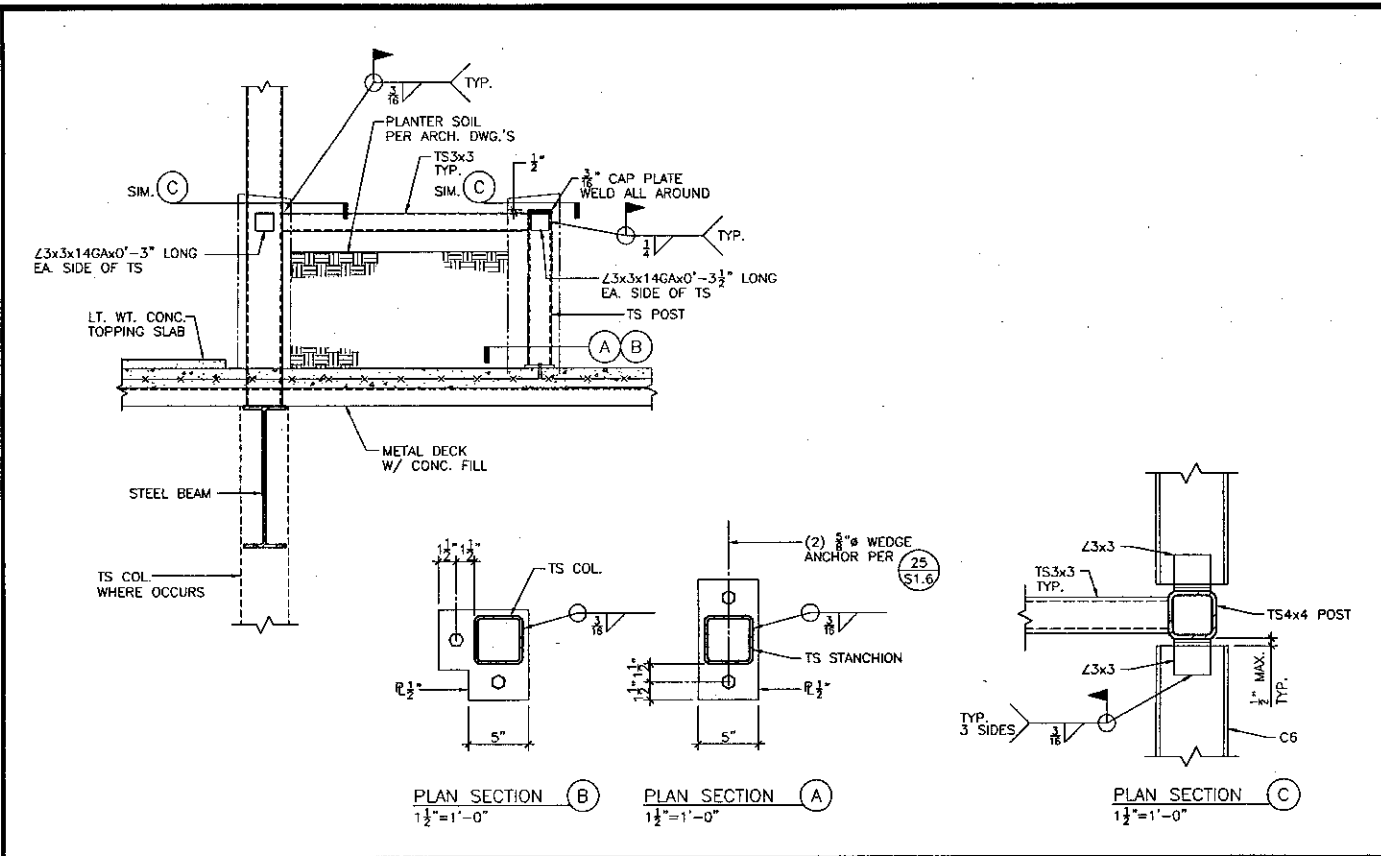
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 Ren. 11/01
 DATE OF EXPIRATION

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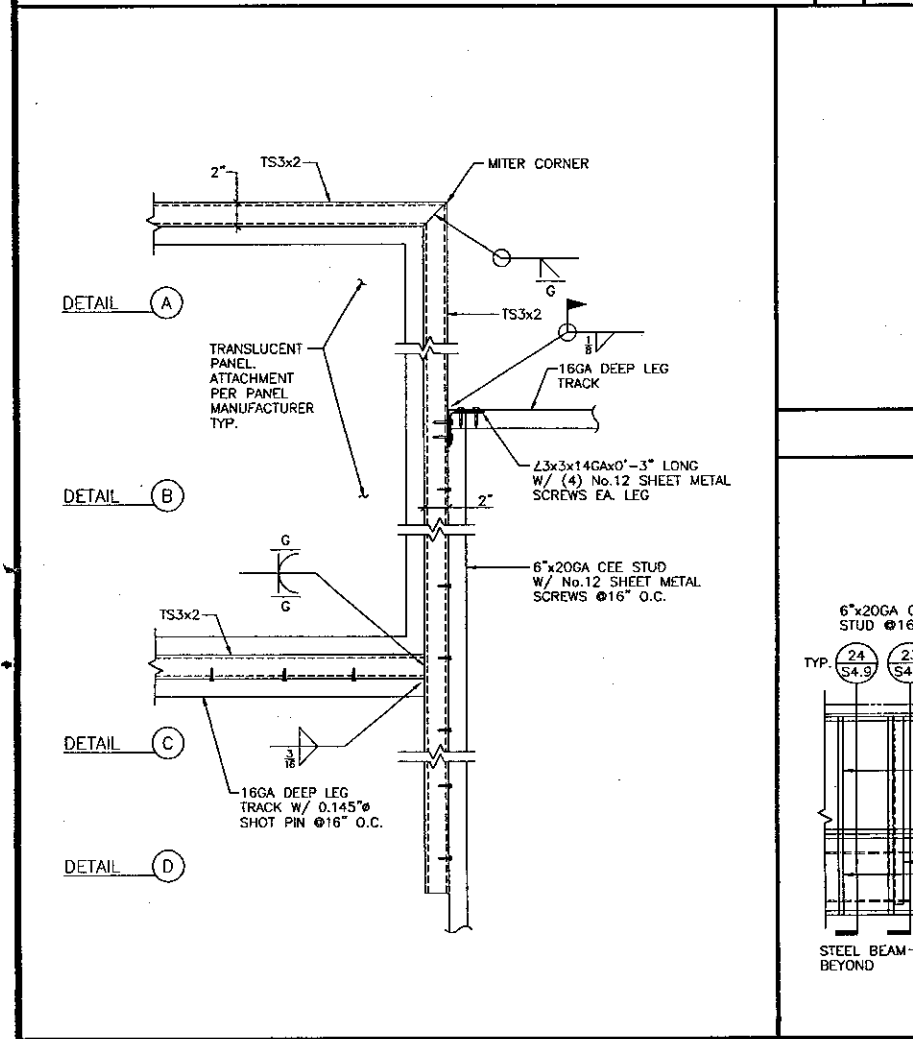
DRAWN: C. VARELA
 CHECKED: L. TSO/B. MURDOCK
 DATE: 09/24/01
 JOB NO.: 9318
 SHEET TITLE: SECTIONS AND DETAILS
 SHEET: S4.8



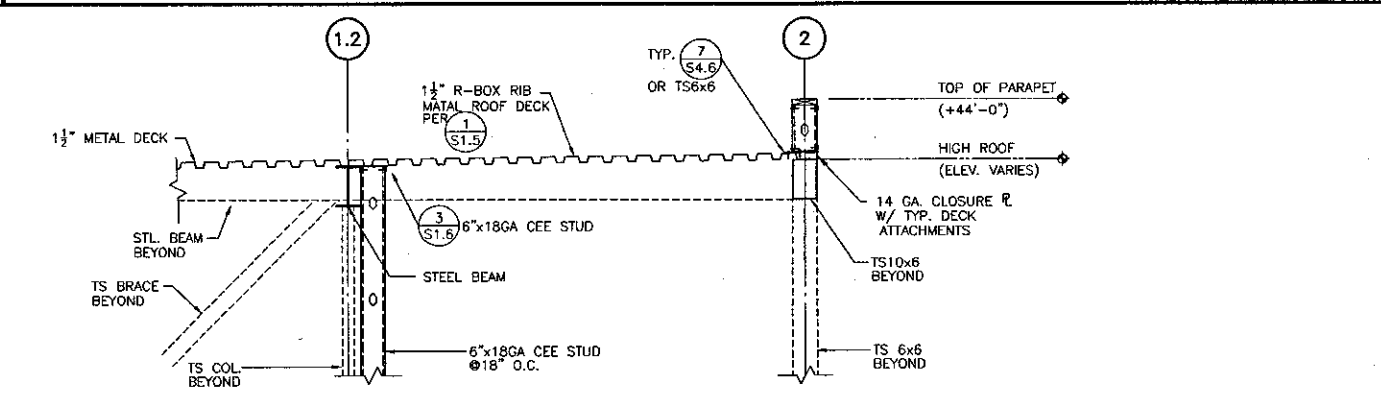
SECTION AT PLANTER 1/2" = 1'-0" 1



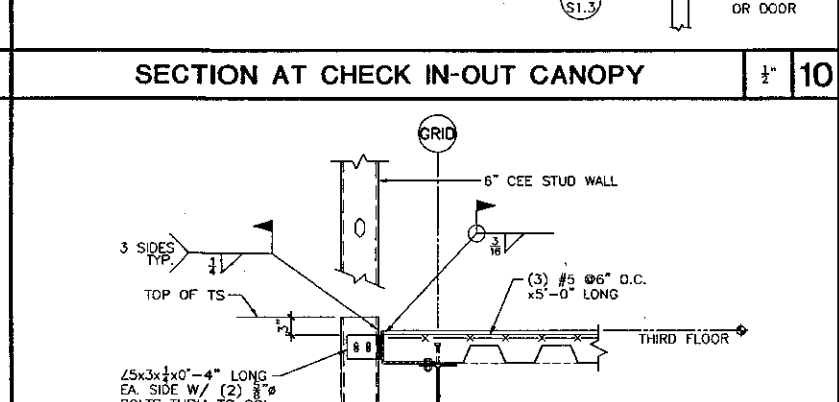
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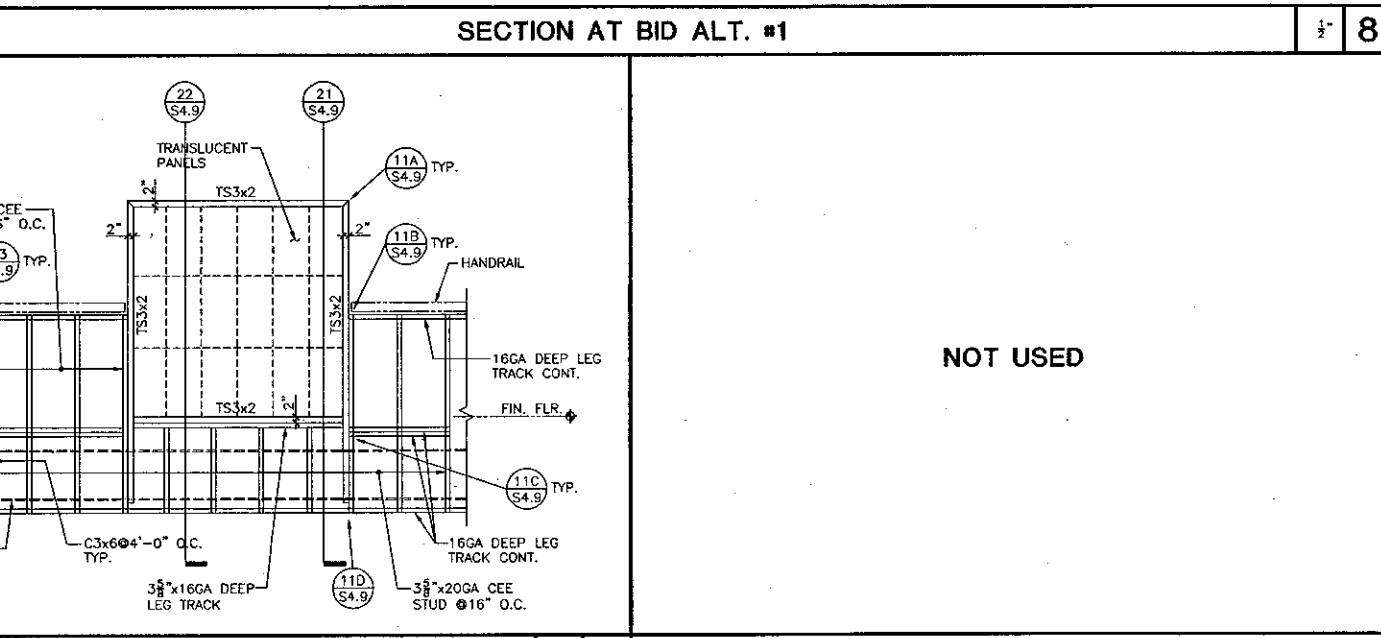
DETAILS 1/2" = 1'-0" 11



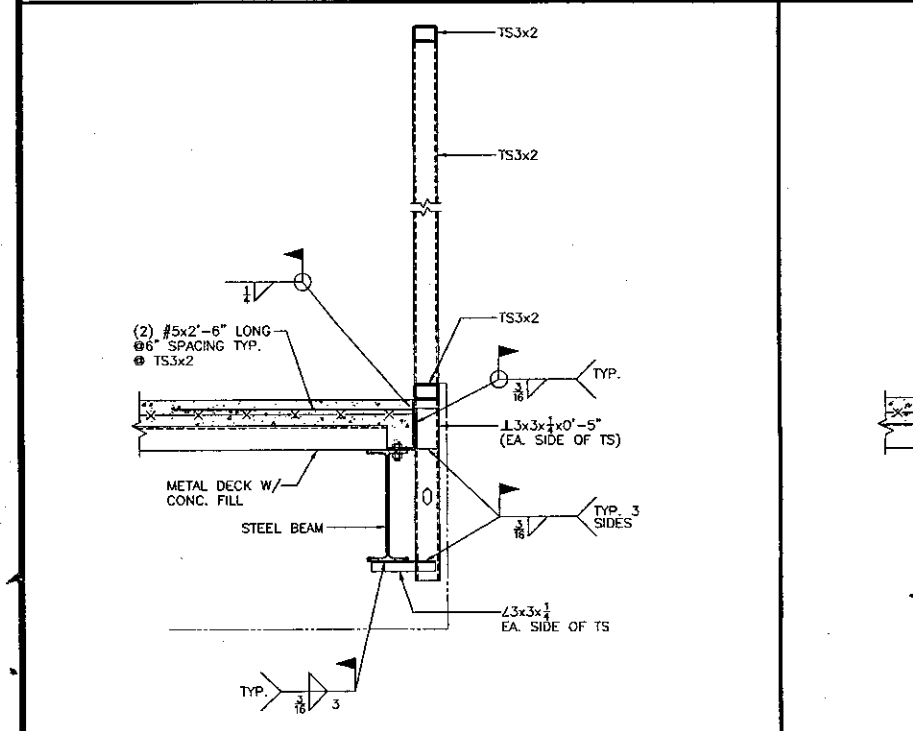
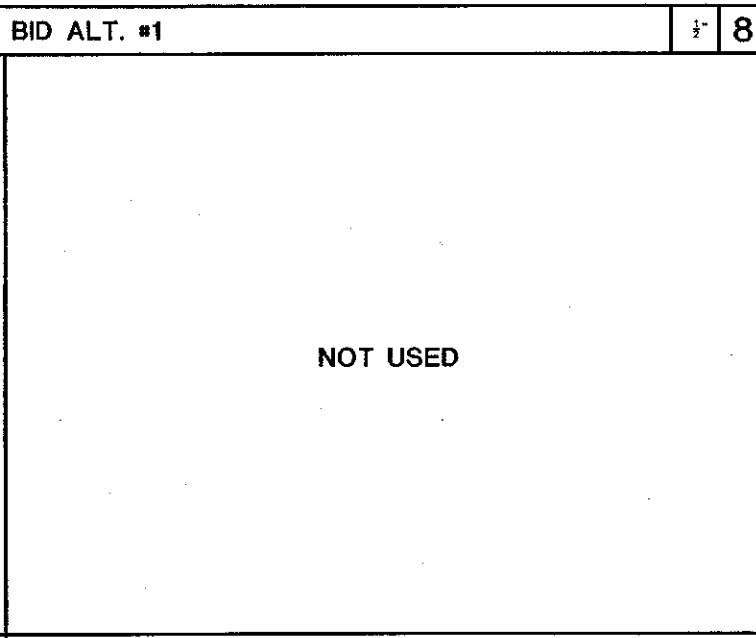
SECTION AT CHECK IN-OUT CANOPY 1/2" = 9' 9



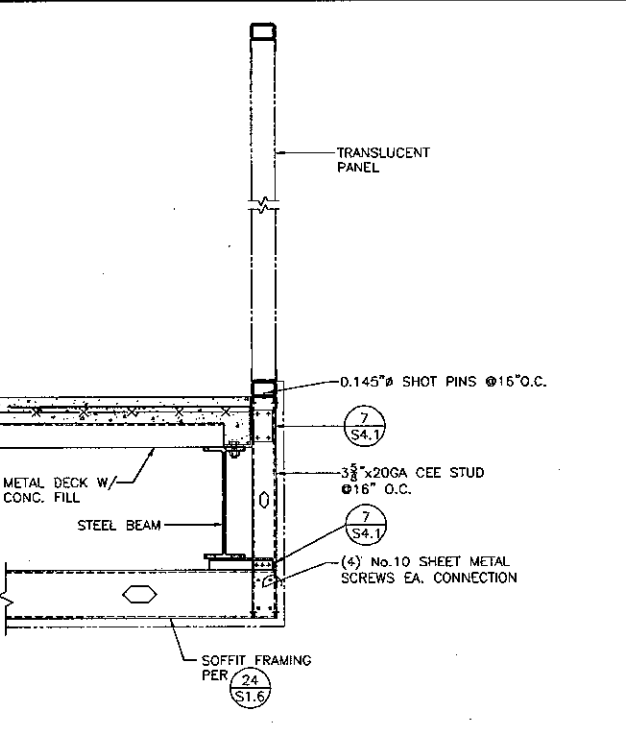
SECTION AT CHECK IN-OUT CANOPY 1/2" = 10' 10



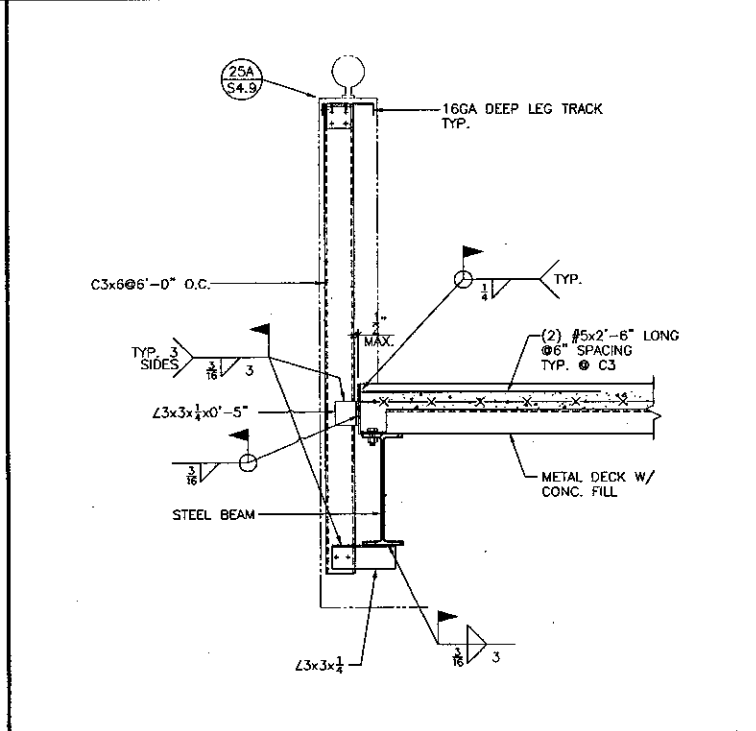
ELEVATION AT TRANSLUCENT PANEL 1/2" = 12' 12



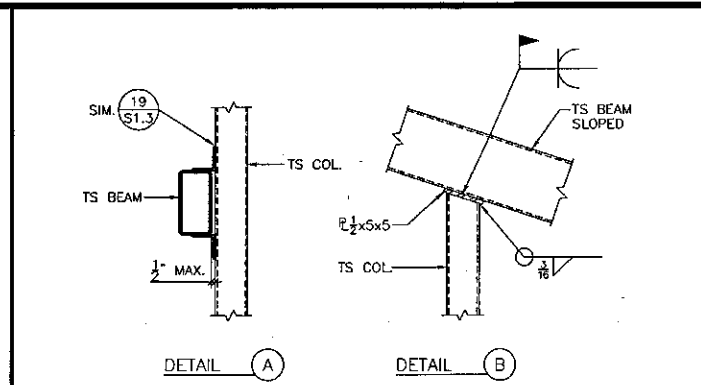
SECTION AT TRANSLUCENT PANEL 1/2" = 21' 21



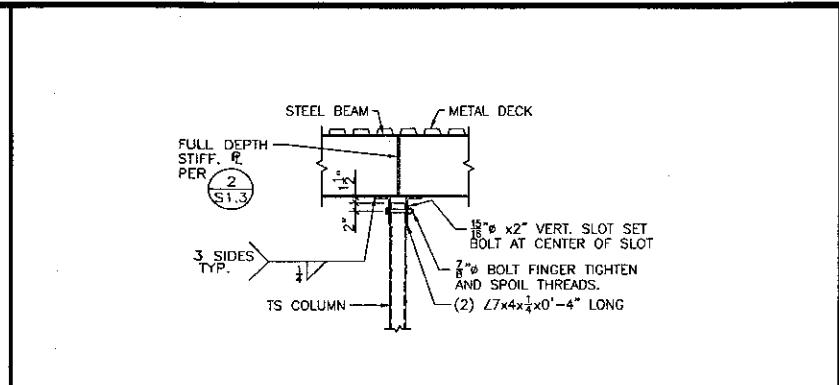
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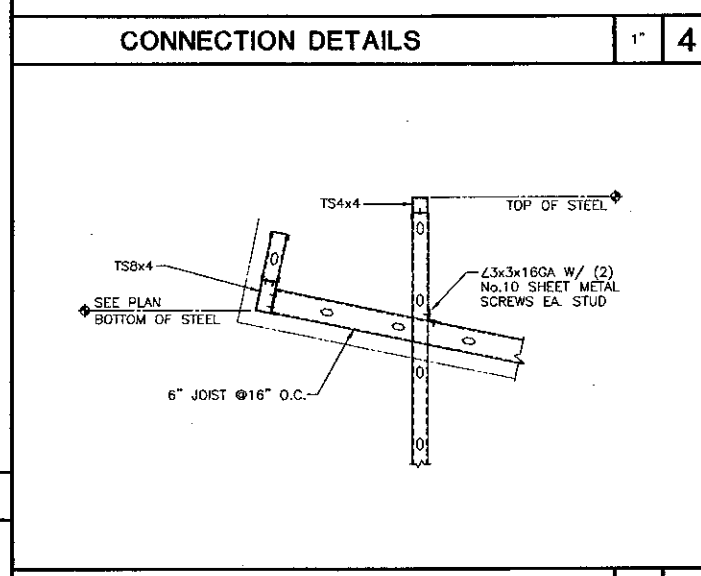
SECTION AT RAILING 1/2" = 23' 23



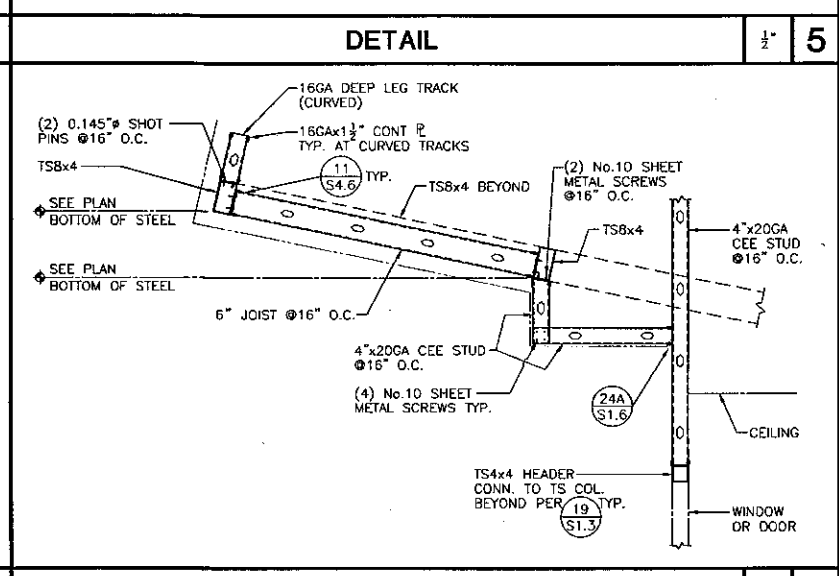
CONNECTION DETAILS 1/2" = 4' 4



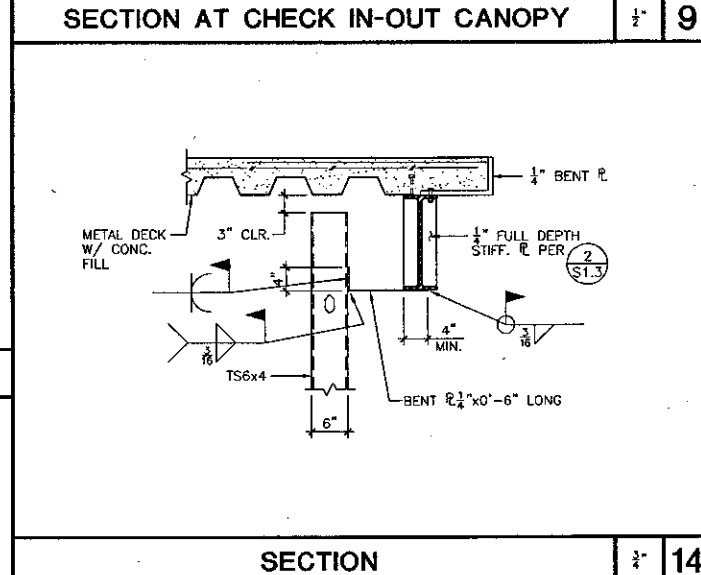
DETAIL 1/2" = 5' 5



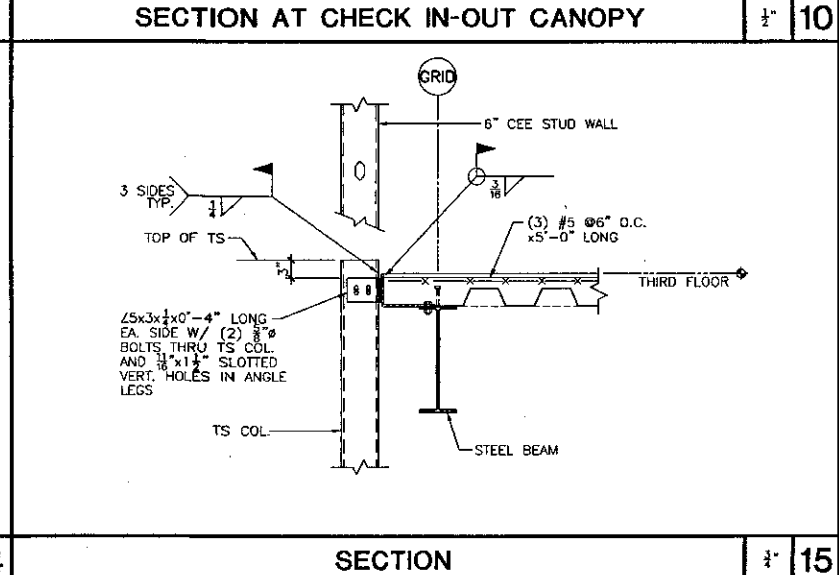
SECTION AT RAILING 1/2" = 14' 14



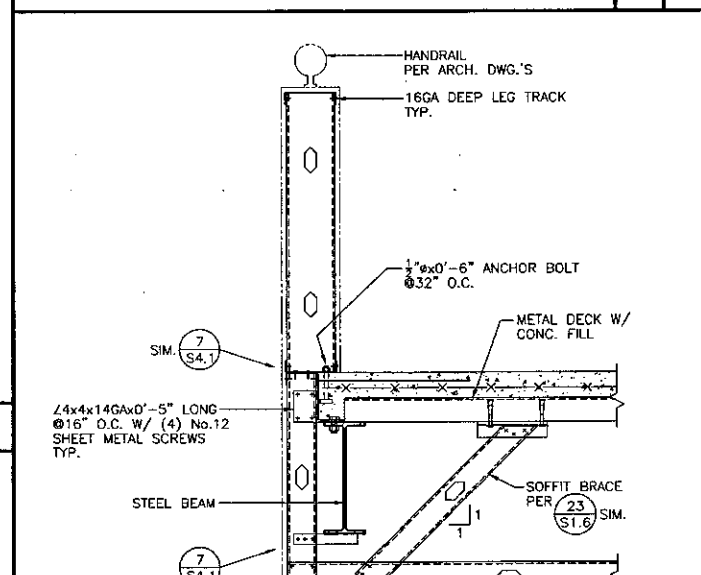
SECTION 1/2" = 15' 15



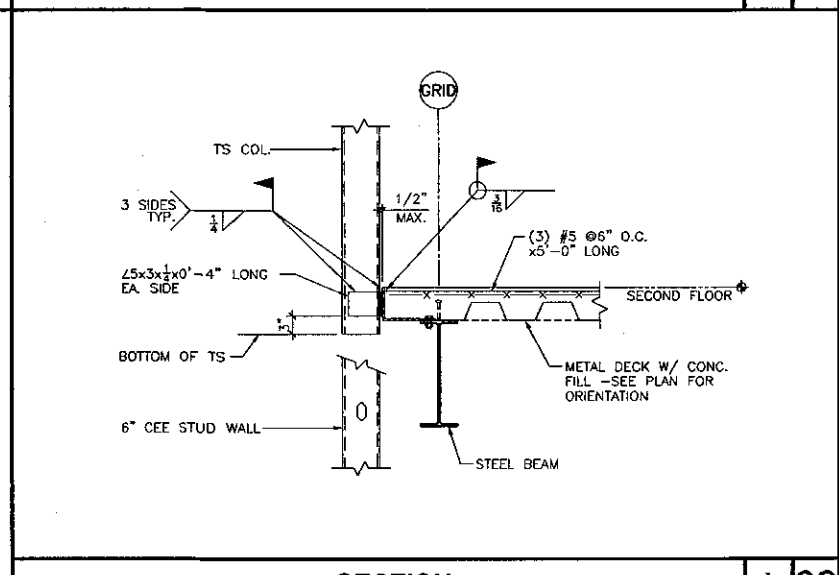
SECTIONS AT RAILING 1/2" = 24' 24



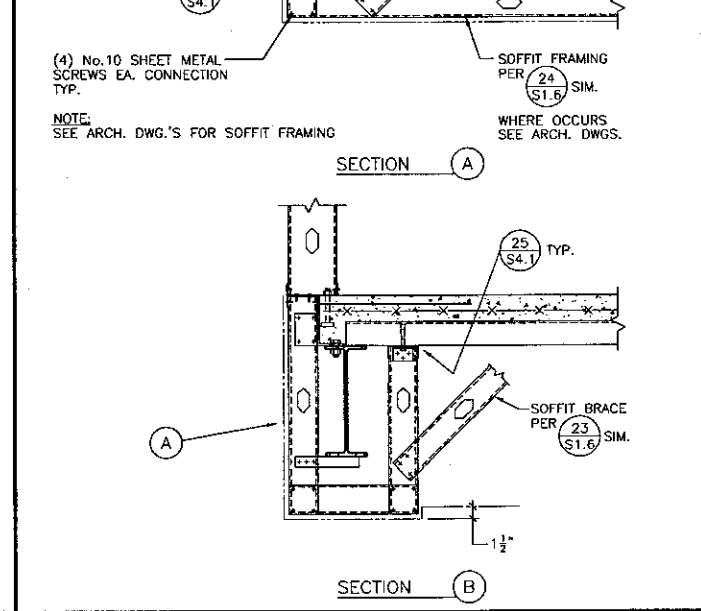
SECTION 1/2" = 20' 20



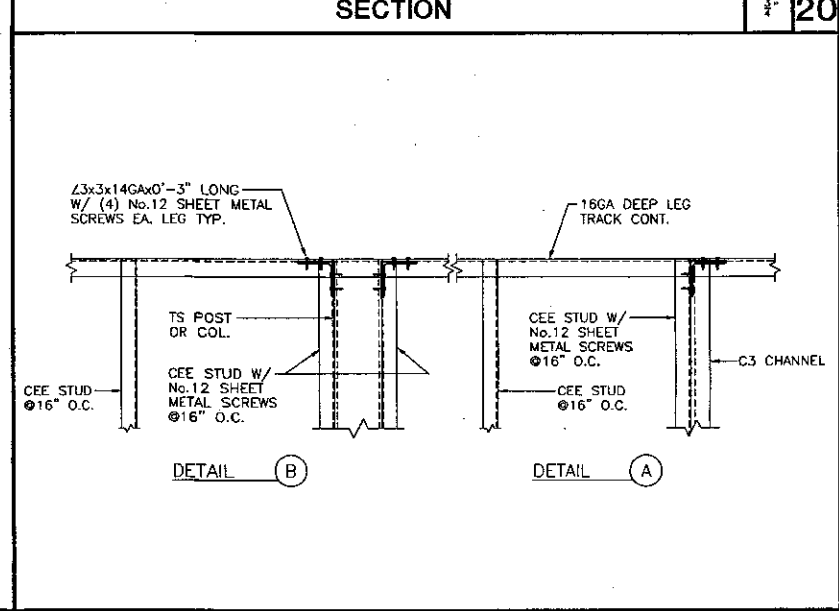
SECTION AT RAILING 1/2" = 25' 25



SECTION 1/2" = 20' 20



SECTIONS AT RAILING 1/2" = 24' 24



DETAIL 1/2" = 25' 25

KRUGER BENSEN ZIEMER ARCHITECTS, INC.
 30 W. ARRELLAGA, SANTA BARBARA, CA 93101
 (805) 963-1725

STEVE DOWDY, A.I.A.
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THIERRY H. CASSAN
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VENTURA COLLEGE LEARNING RESOURCES CENTER
 Ventura County Community College District
 Ventura, CA 93003
 4667 Telegraph Road

ENGINEER'S STAMP
 No. S-3073, Exp. 3-31-2005
 STATE OF CALIFORNIA

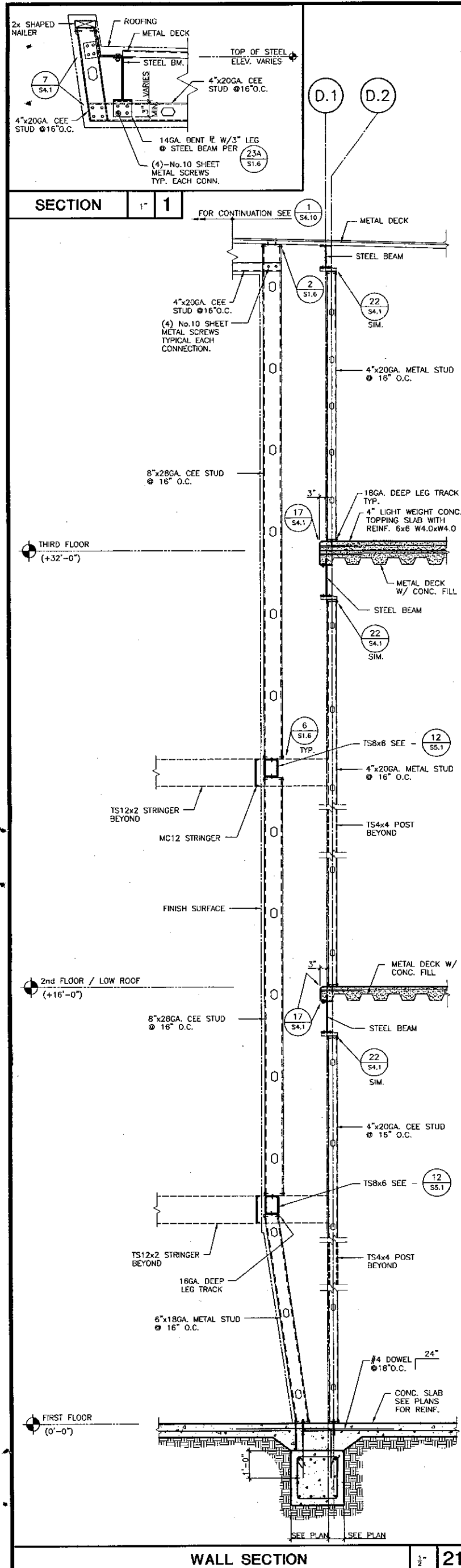
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 No. A-11185, Ren. 11/01
 STATE OF CALIFORNIA

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 DIVISION OF THE STATE ARCHITECT
 FILE NUMBER: SEC 1
 APPR: 03-104498
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 DATE: 11/8/01

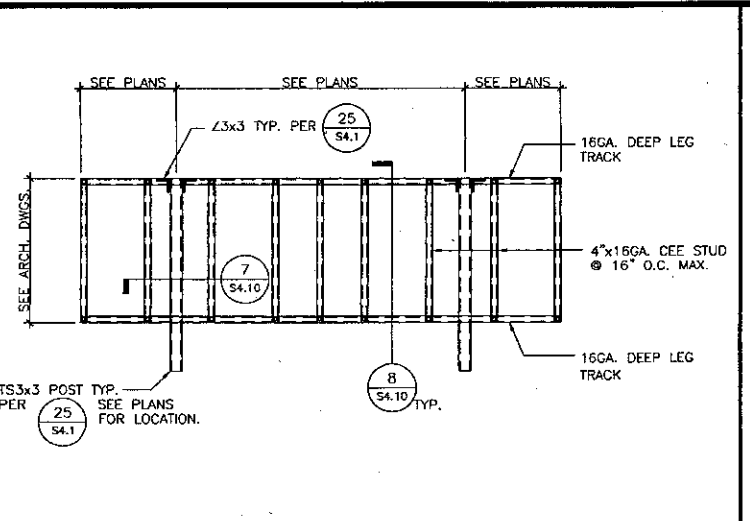
NO.	DESCRIPTION	DATE	BY

SECTIONS AND DETAILS

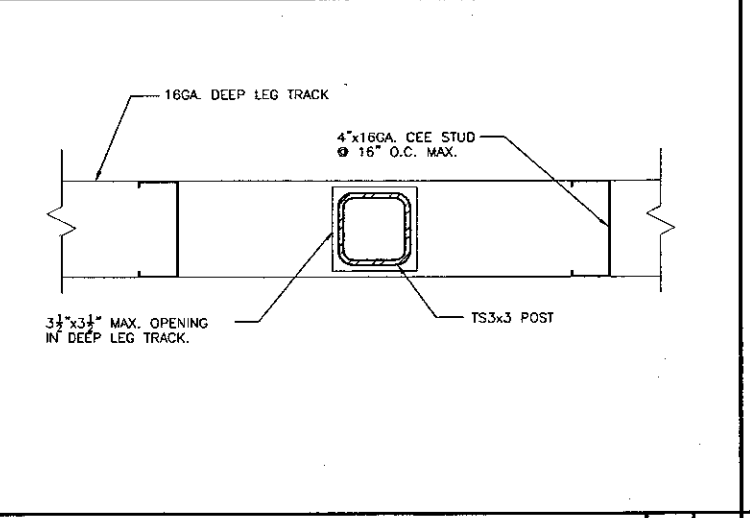
DRAWN: C. VARELA
 CHECKED: L. TSO/B. MURDOCK
 DATE: 09/24/01
 JOB NO.: 9318
 SHEET TITLE: SECTIONS AND DETAILS
 SHEET: S4.9



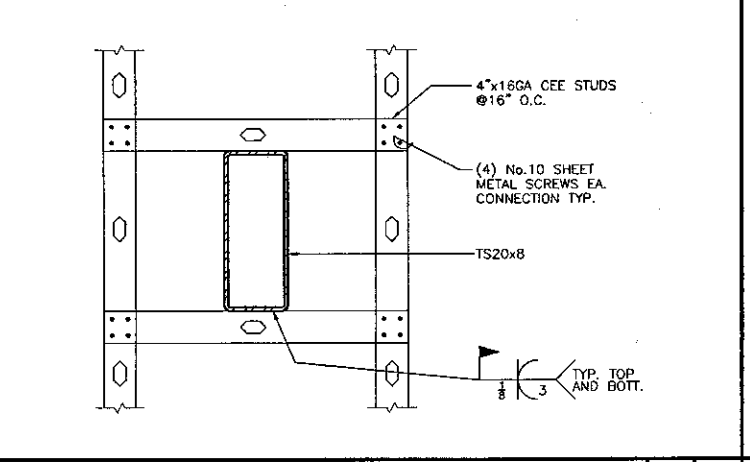
WALL SECTION 1



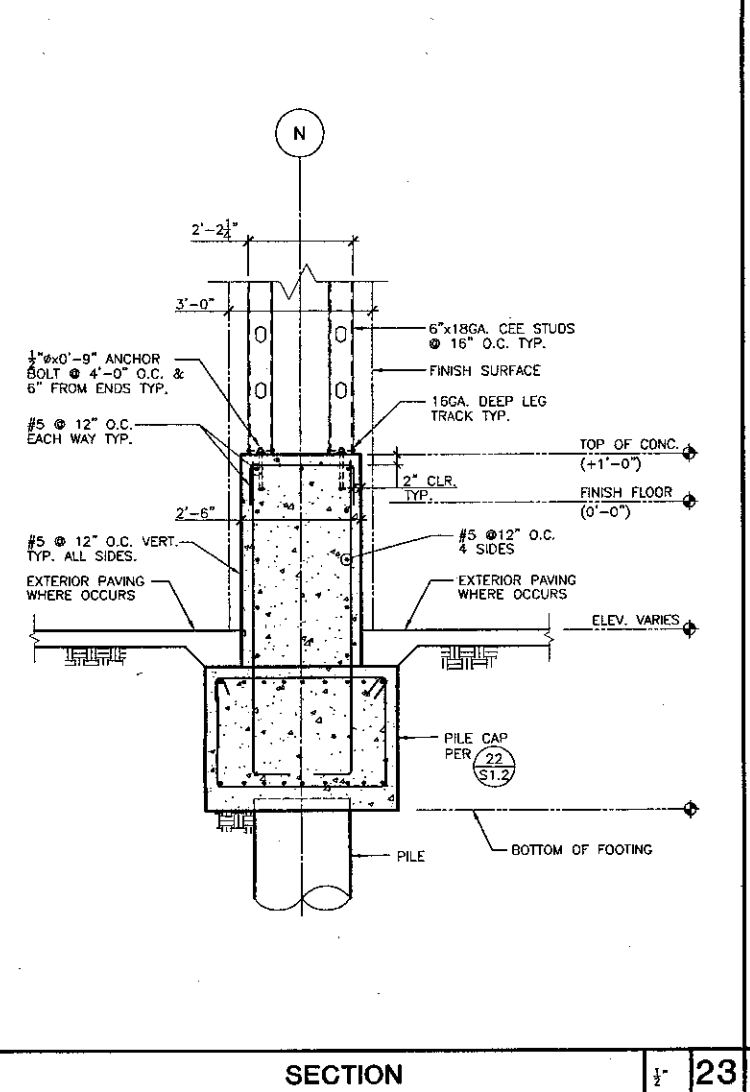
GFRG STUD FRAME 2



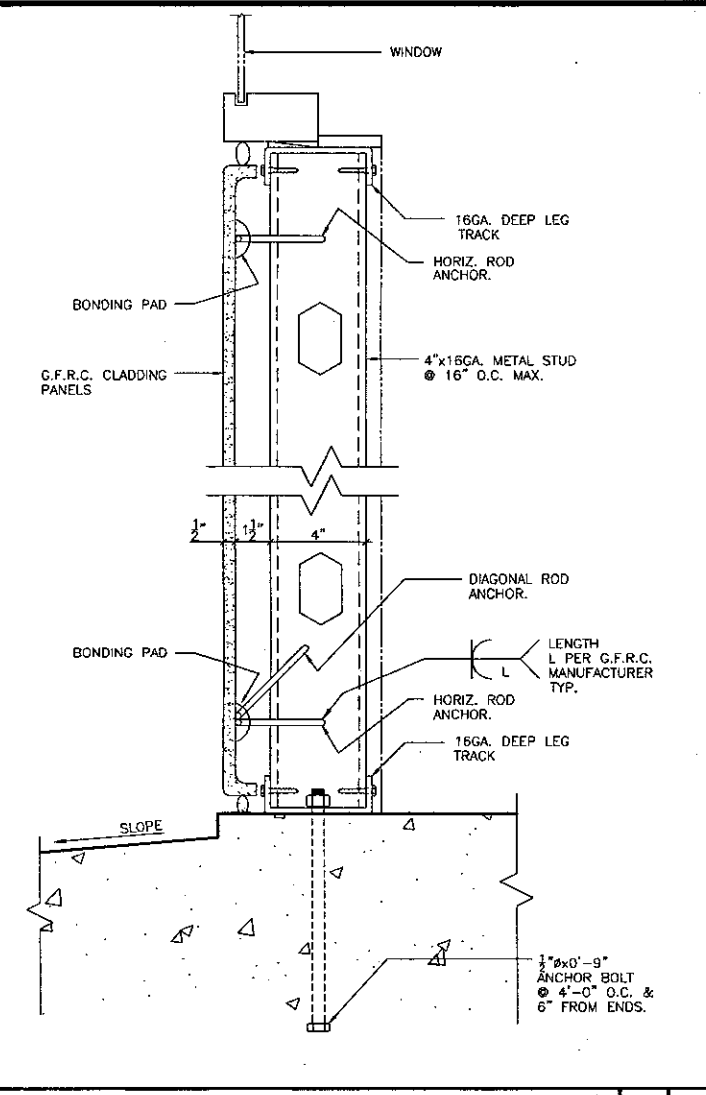
PLAN SECTION 7



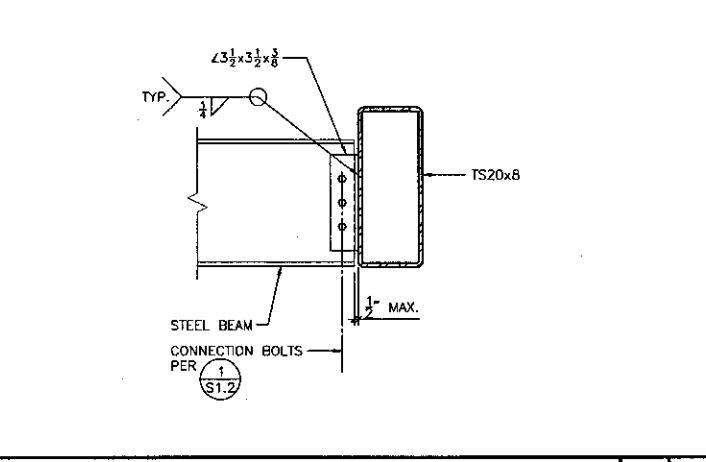
SECTION 12



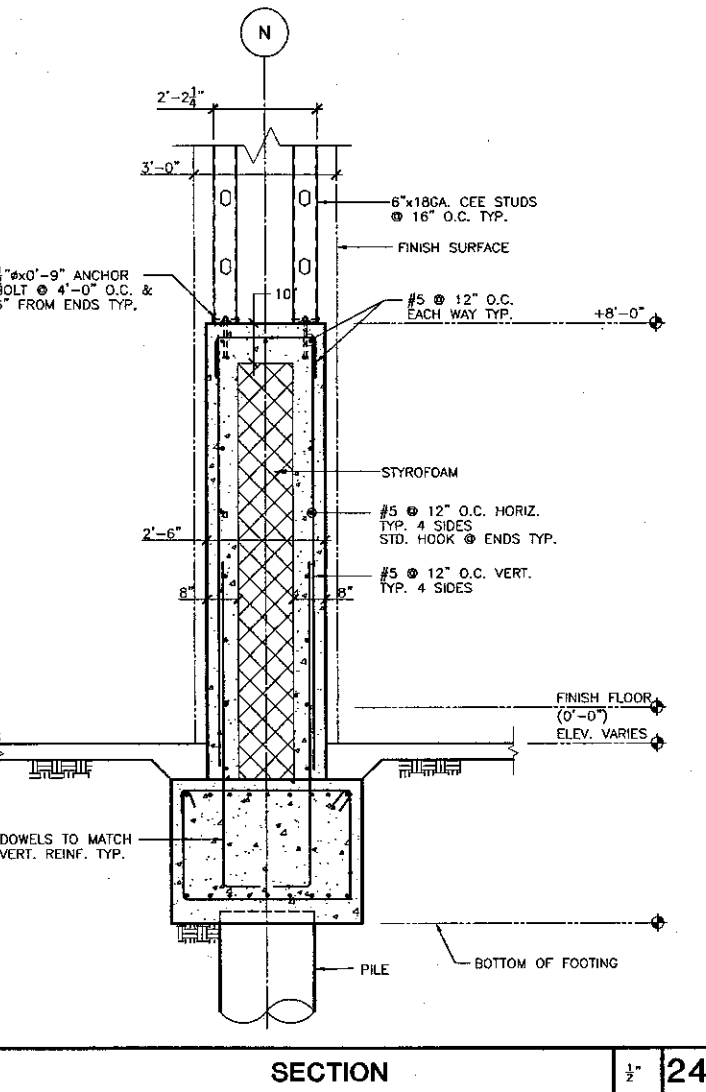
SECTION 23



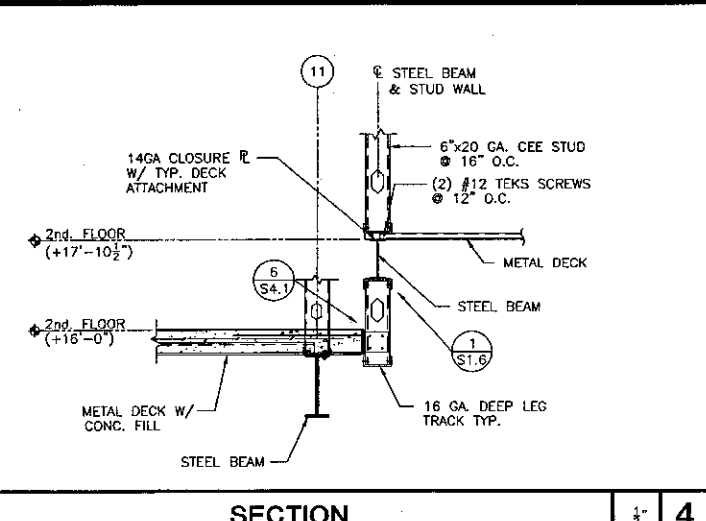
G.F.R.C. PANEL SECTION 8



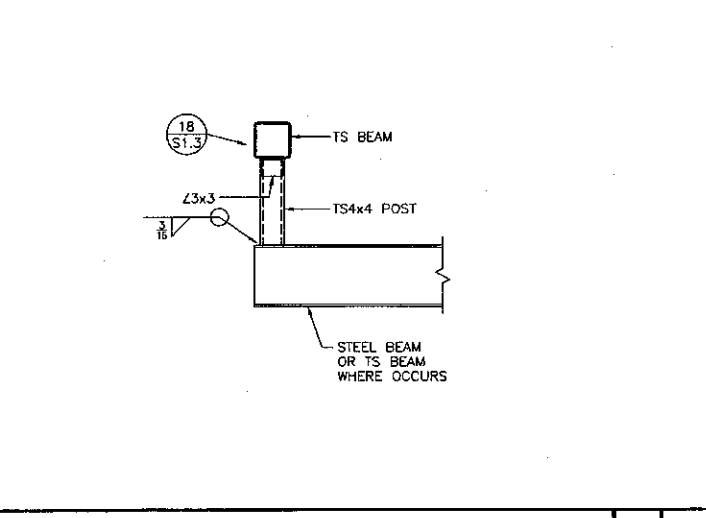
DETAIL 13



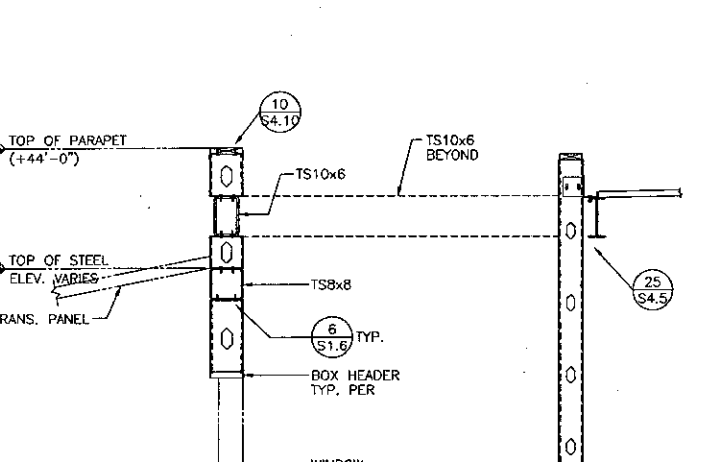
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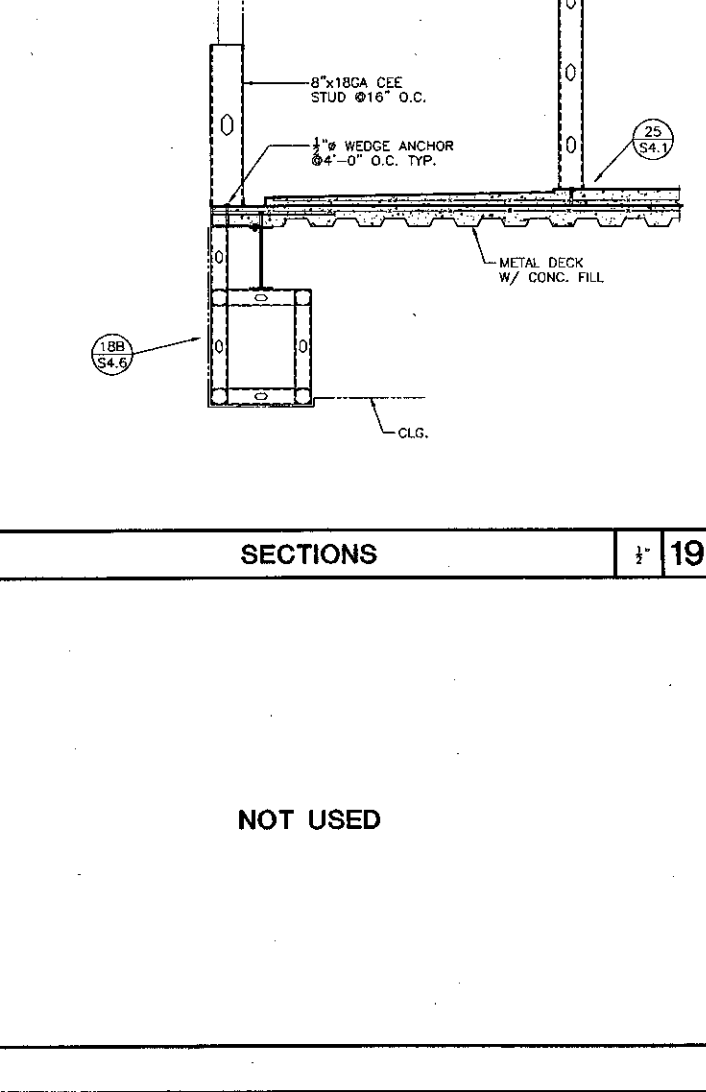
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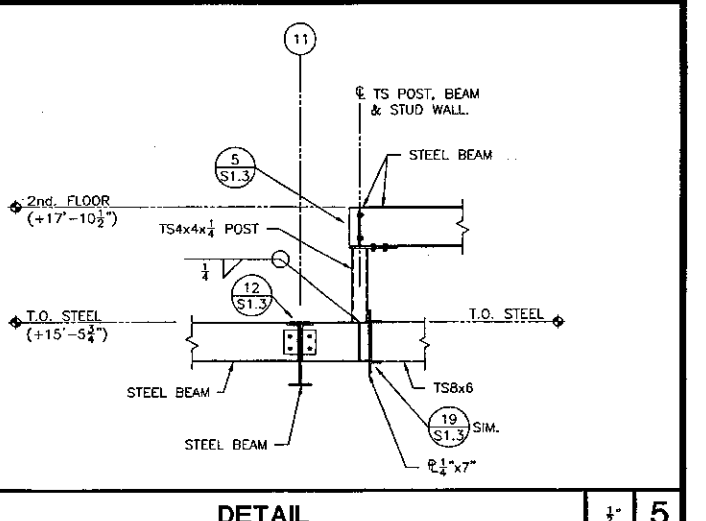
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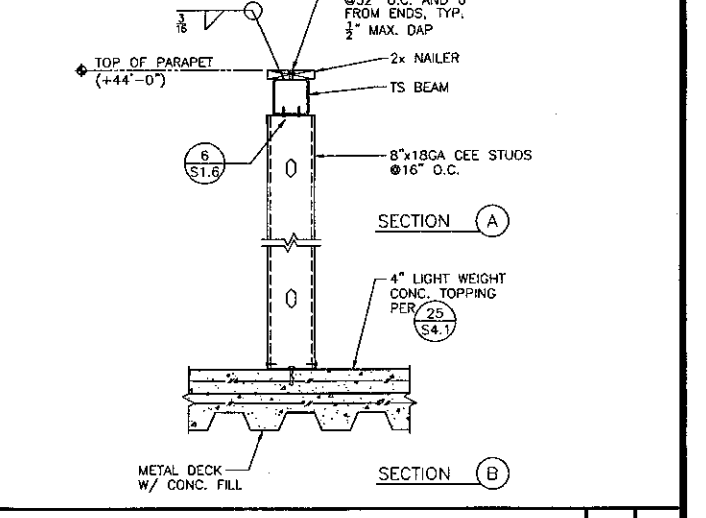
SECTIONS 19



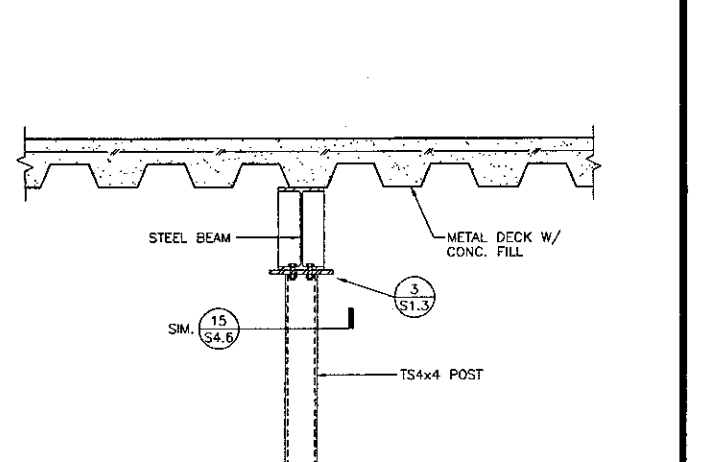
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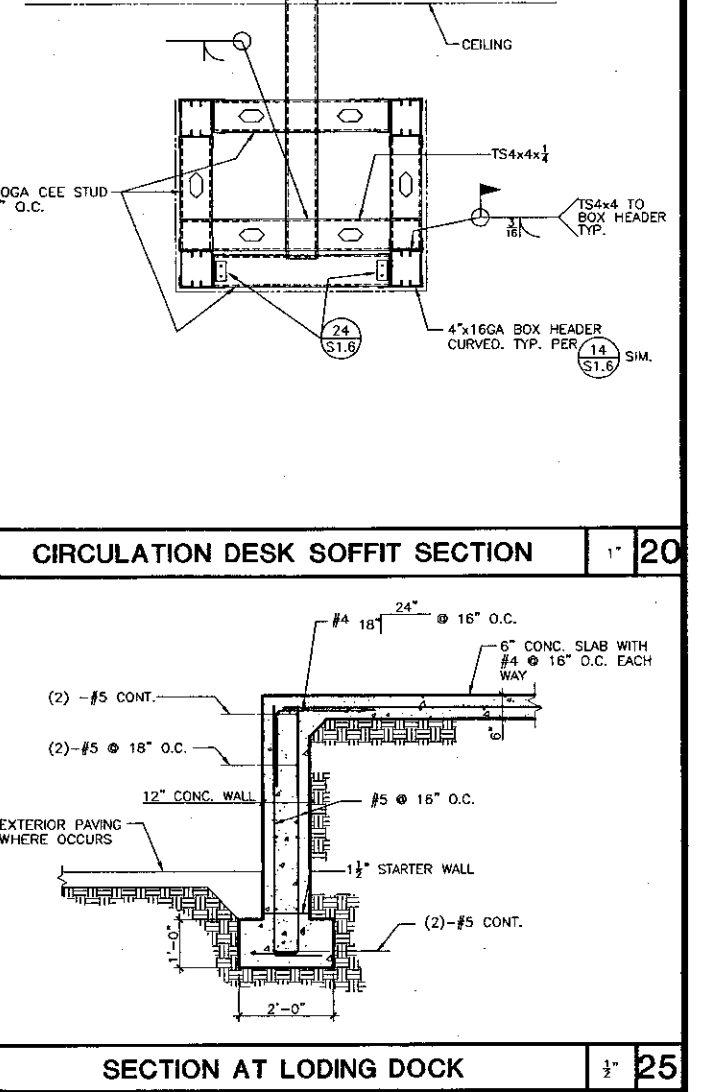
DETAIL 5



SECTIONS 10



CIRCULATION DESK SOFFIT SECTION 20



SECTION AT LODGING DOCK 25

KRUGER BENSON ZIEMER ARCHITECTS, INC. AIA
 30 W. ARRELLA AVE. SANTA BARBARA, CA 93101
 805/963.1725

STEVE DOWTY, A.I.A.
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 Ventura County Community College District
 4667 Telegraph Road
 Ventura, CA 93003

ENGINEER'S STAMP
 No. S 3073
 Exp. 3-31-2008
 STATE OF CALIFORNIA

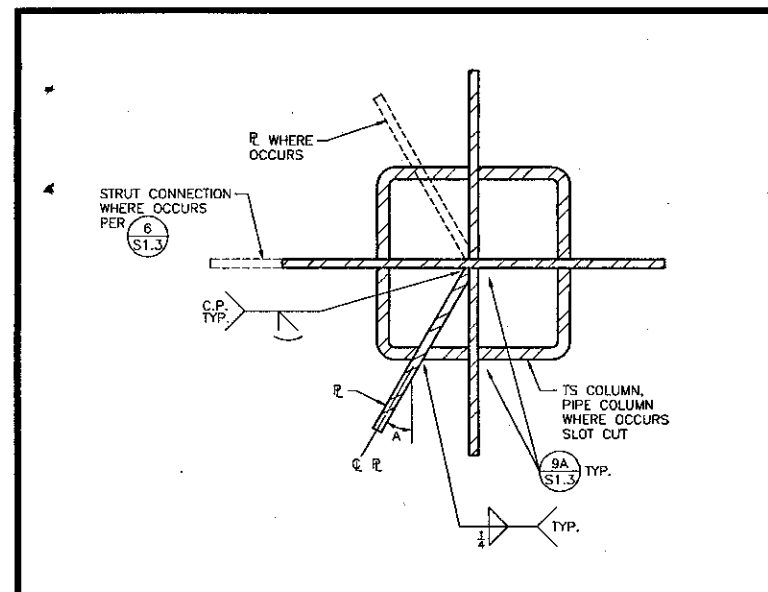
ARCHITECT'S STAMP
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 Ren. 11/07
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 DIVISION OF THE STATE ARCHITECT
 FILE NUMBER: 56C1
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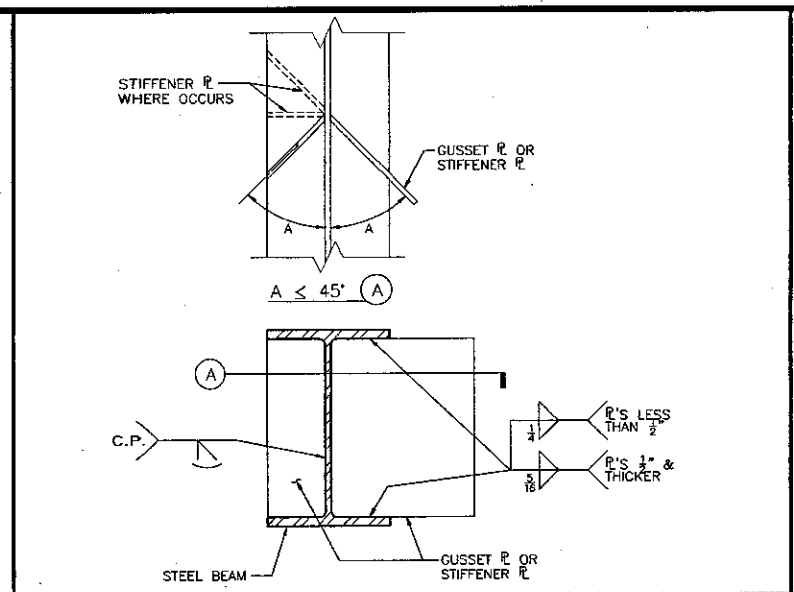
NO.	DESCRIPTION	DATE	BY

SECTIONS AND DETAILS

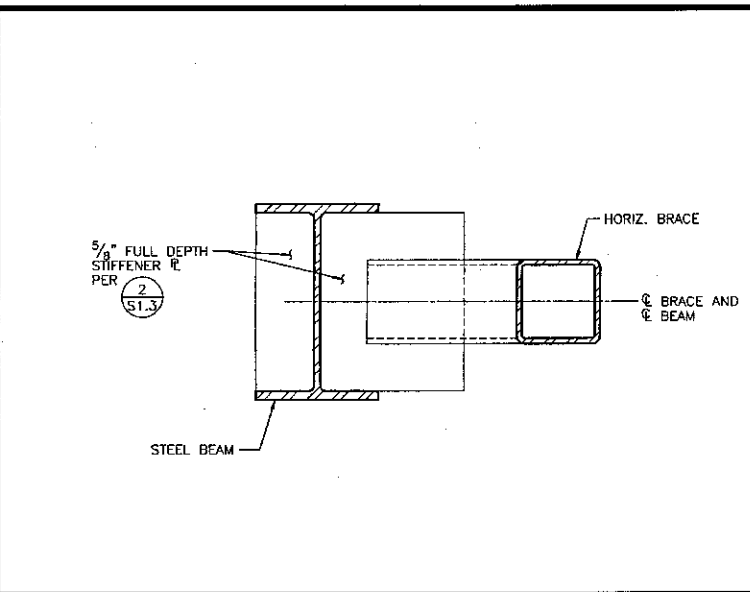
DRAWN: C. VARELA/H. VELASQUEZ
 CHECKED: L. TSC/B. MURDOCK
 DATE: 09/24/01
 JOB NO.: 9318
 SHEET TITLE: SECTIONS AND DETAILS
 SHEET: S4.10



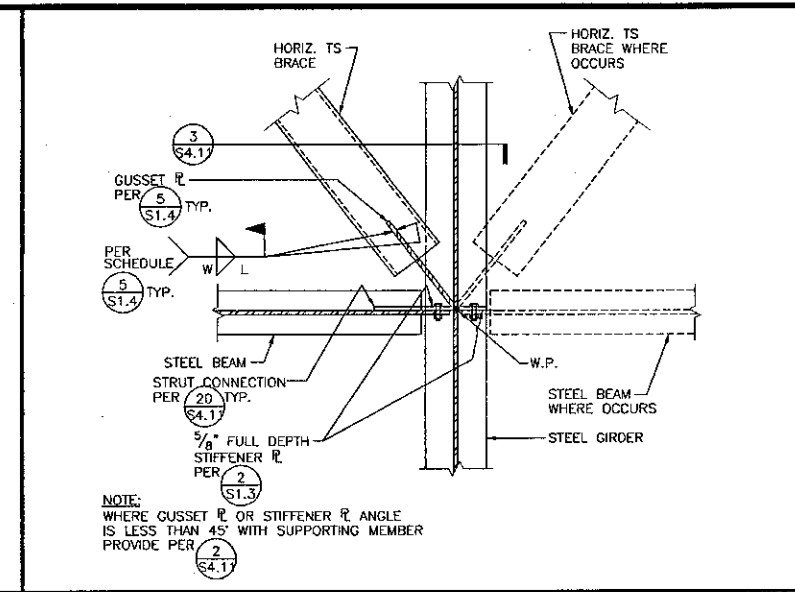
CONNECTION AT COLUMN 3" 1



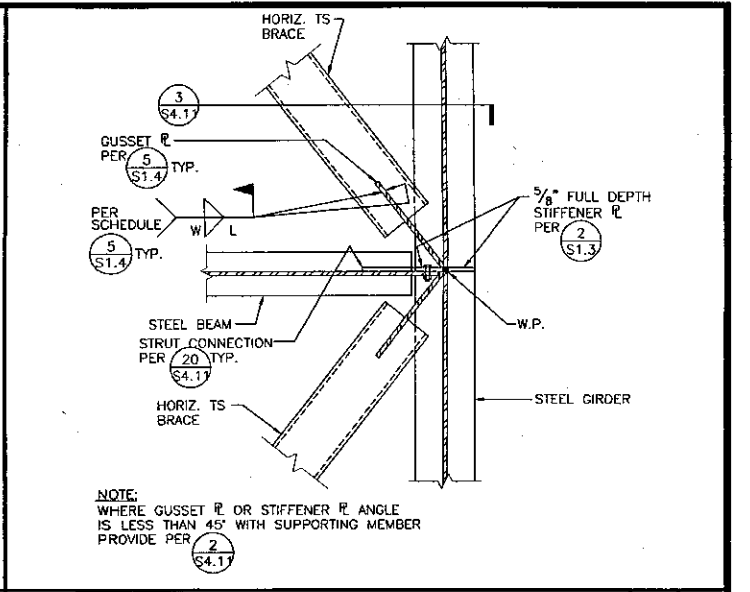
DETAIL 1 1/2" 2



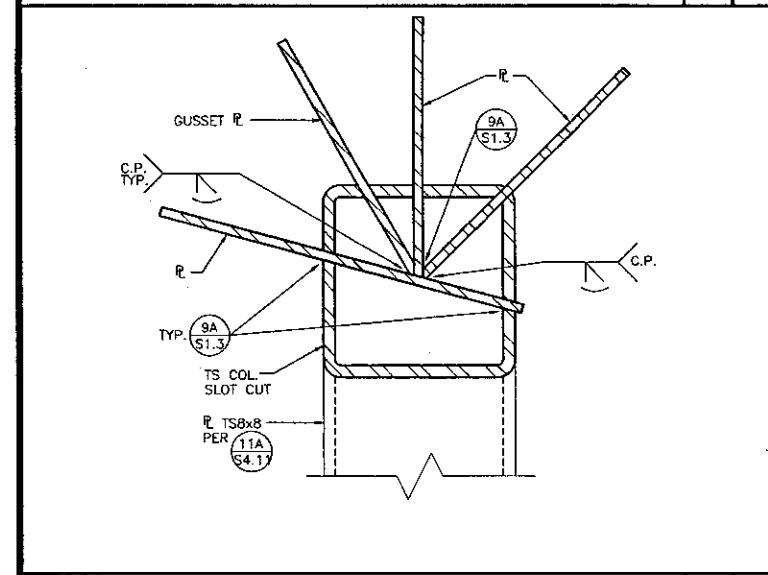
DETAIL 1 1/2" 3



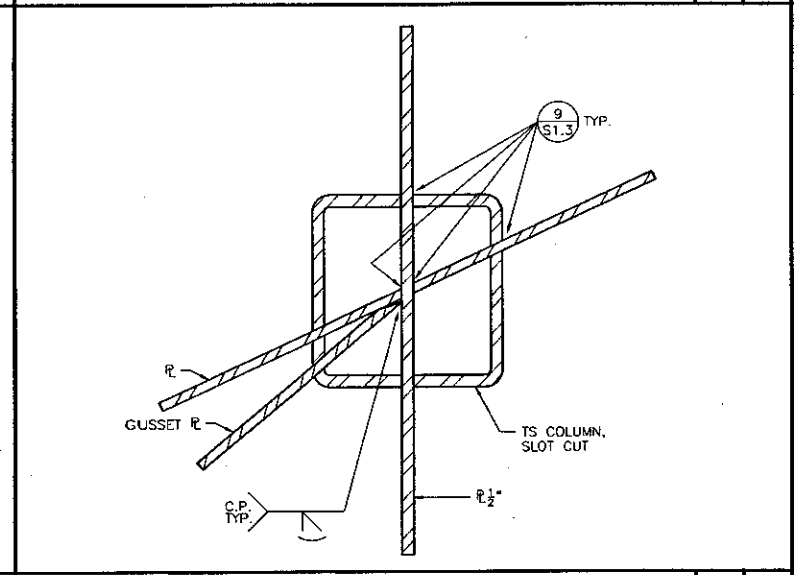
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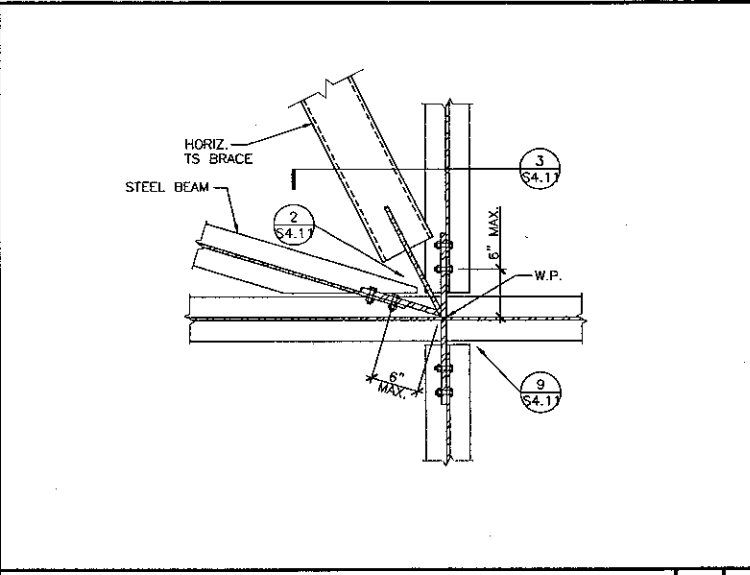
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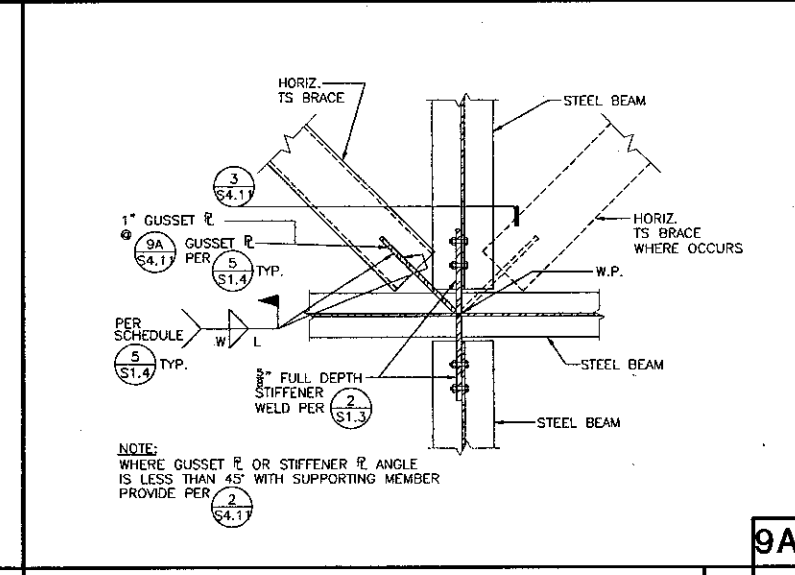
CONNECTION AT COLUMN 3" 6



CONNECTION AT COLUMN 3" 7

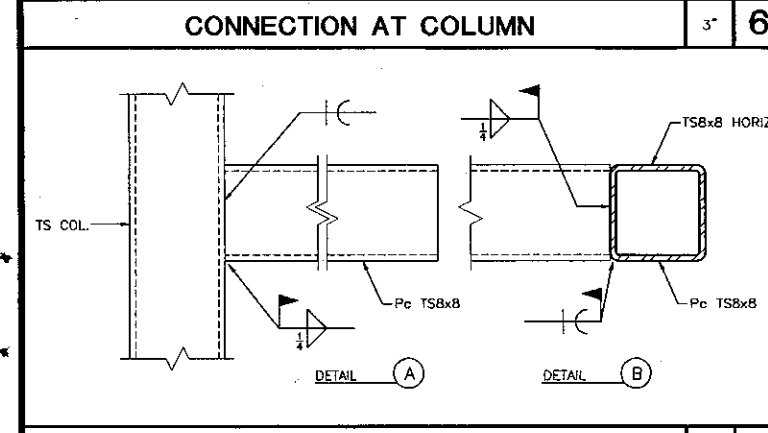


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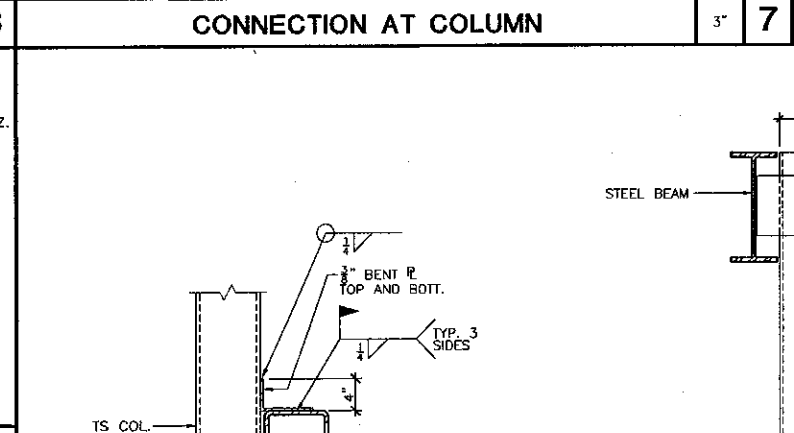


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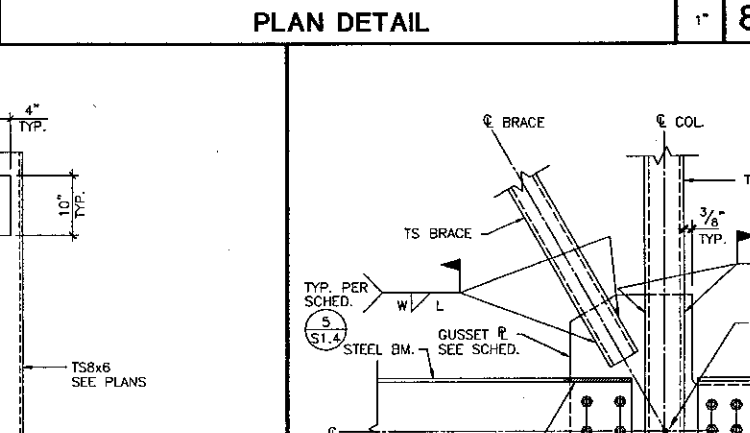
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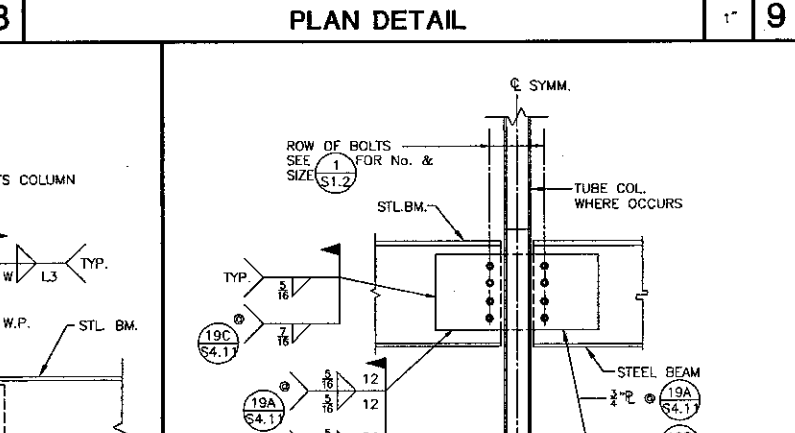
DETAILS 1 1/2" 11



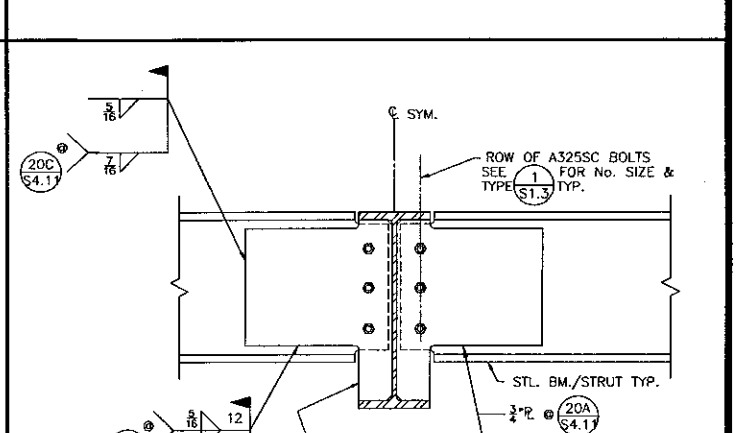
CONNECTION DETAILS 1 1/2" 12



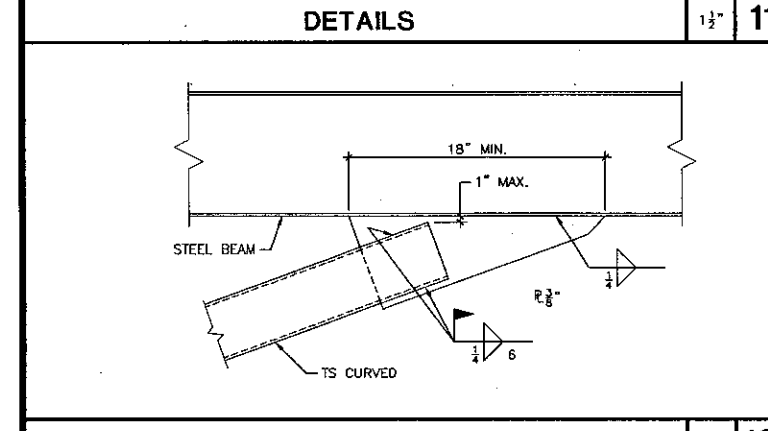
BRACE CONNECTION 1 1/2" 13



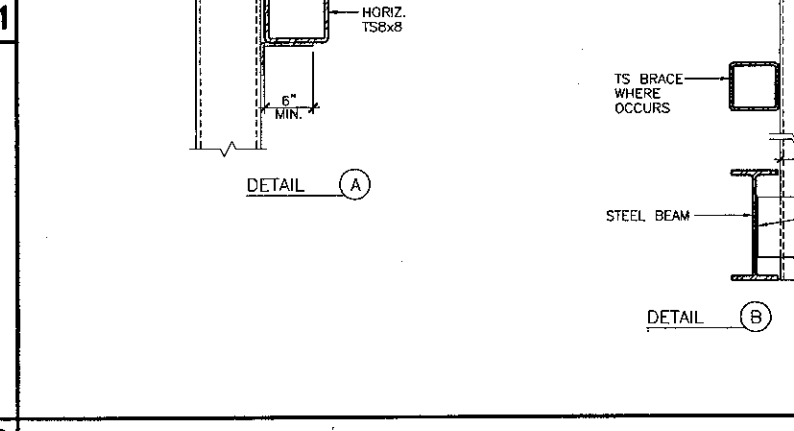
STRUT CONNECTION DETAIL 1 1/2" 14



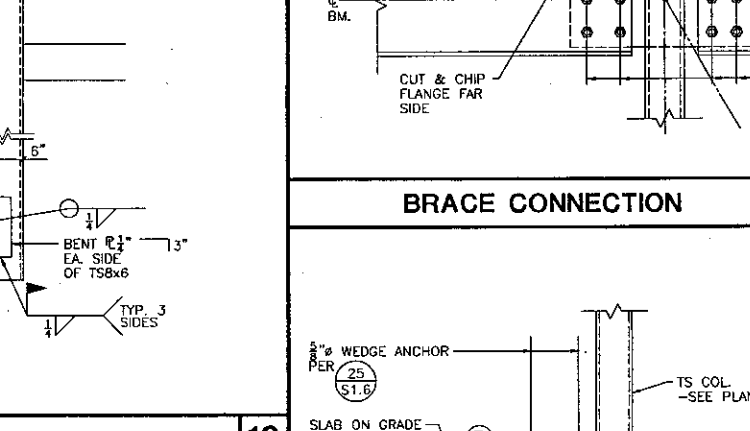
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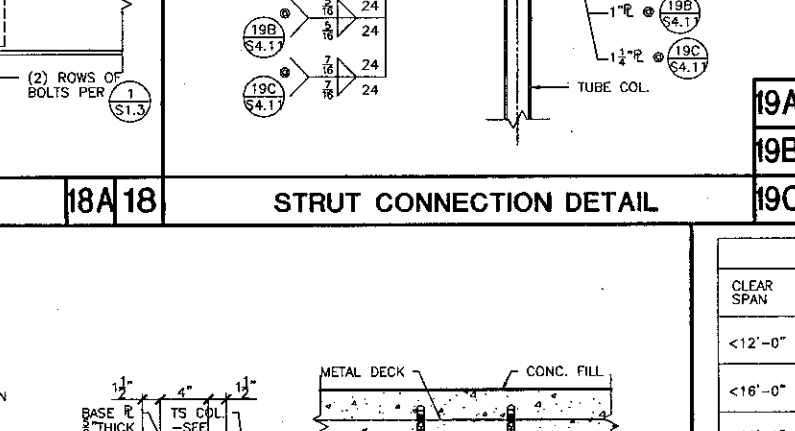
DETAIL 1 1/2" 16



DETAILS 1 1/2" 17



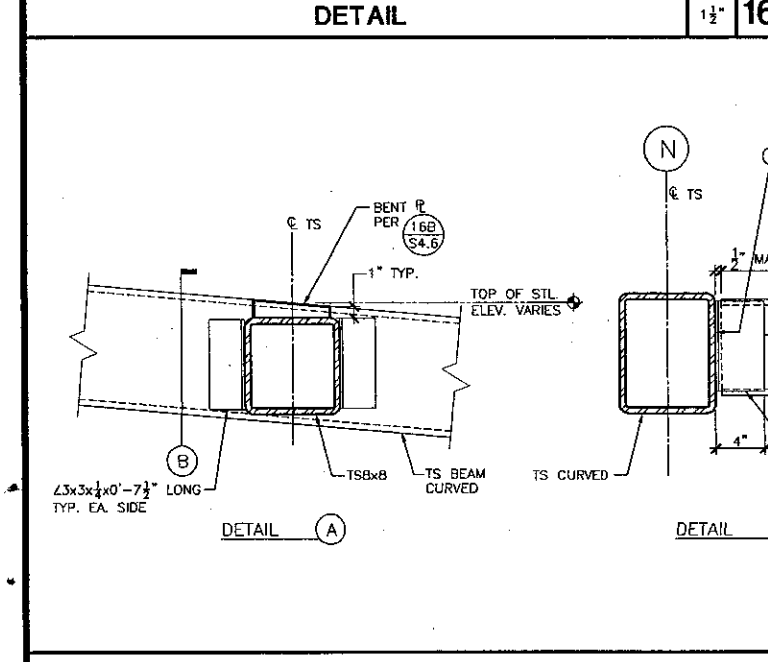
INTERIOR WALL FRAMING DETAILS 1 1/2" 18



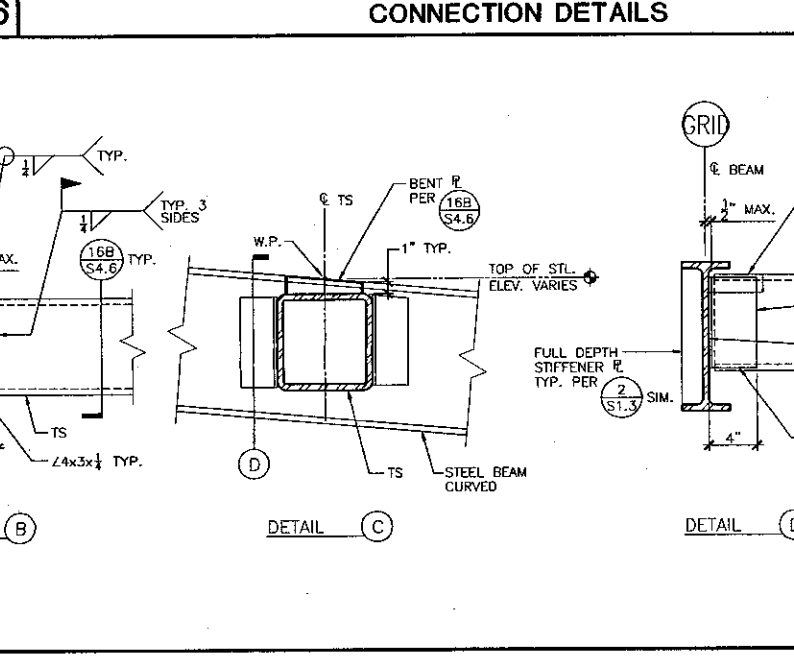
TYPICAL INTERIOR WALL FRAMING 1 1/2" 19

CLEAR SPAN PER	HEADER	JAMB
<12'-0"	9 ST.5	9 ST.5
<16'-0"	TS3x3x1/2	TS3.5x3.5x1/2
<20'-0"	TS5x3x1/2	TS3.5x3.5x1/2
<24'-0"	TS6x4x1/2	TS4x4x1/2

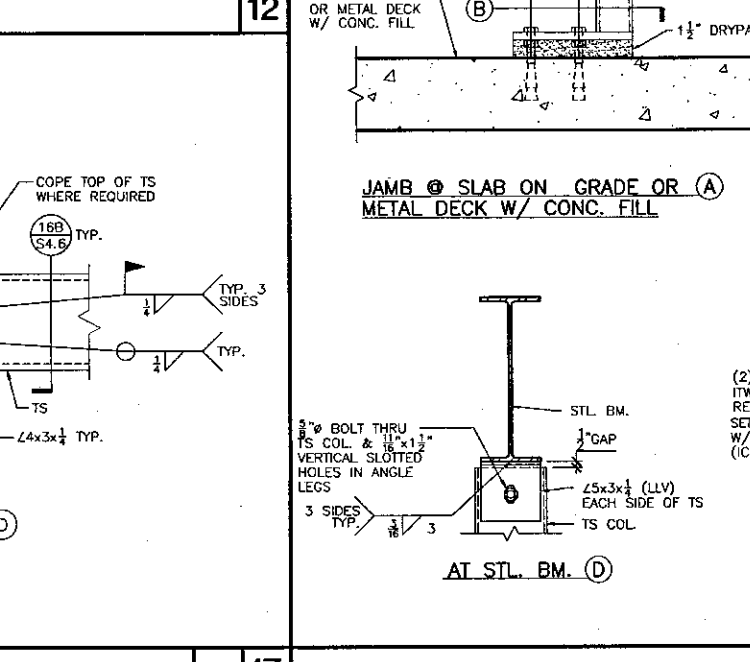
SCHEDULE 1 1/2" 20



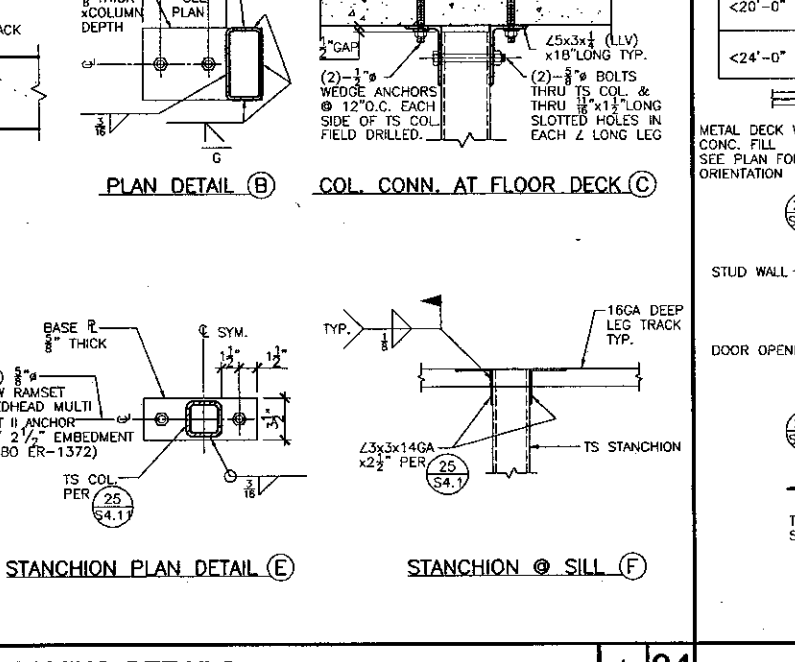
INTERIOR WALL FRAMING DETAILS 1 1/2" 24



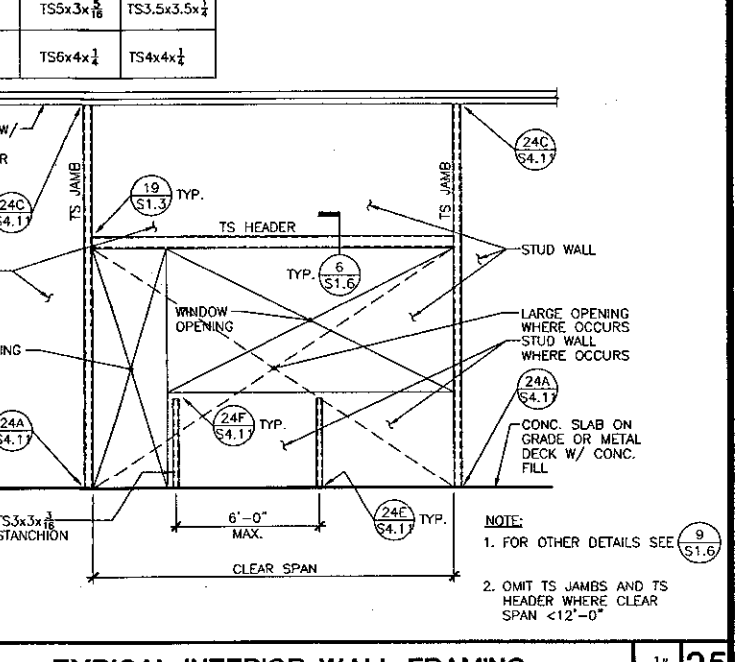
TYPICAL INTERIOR WALL FRAMING 1 1/2" 25



INTERIOR WALL FRAMING DETAILS 1 1/2" 26



TYPICAL INTERIOR WALL FRAMING 1 1/2" 27



TYPICAL INTERIOR WALL FRAMING 1 1/2" 28

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STEVE DOWDY, A.I.A.
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THIERRY H. CASSAN
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VENTURA COLLEGE LEARNING RESOURCES CENTER
Ventura County Community College District
Ventura, CA 93003
4667 Telegraph Road

Professional Engineer Seal
No. 33073
Exp. 3-31-2005
State of California

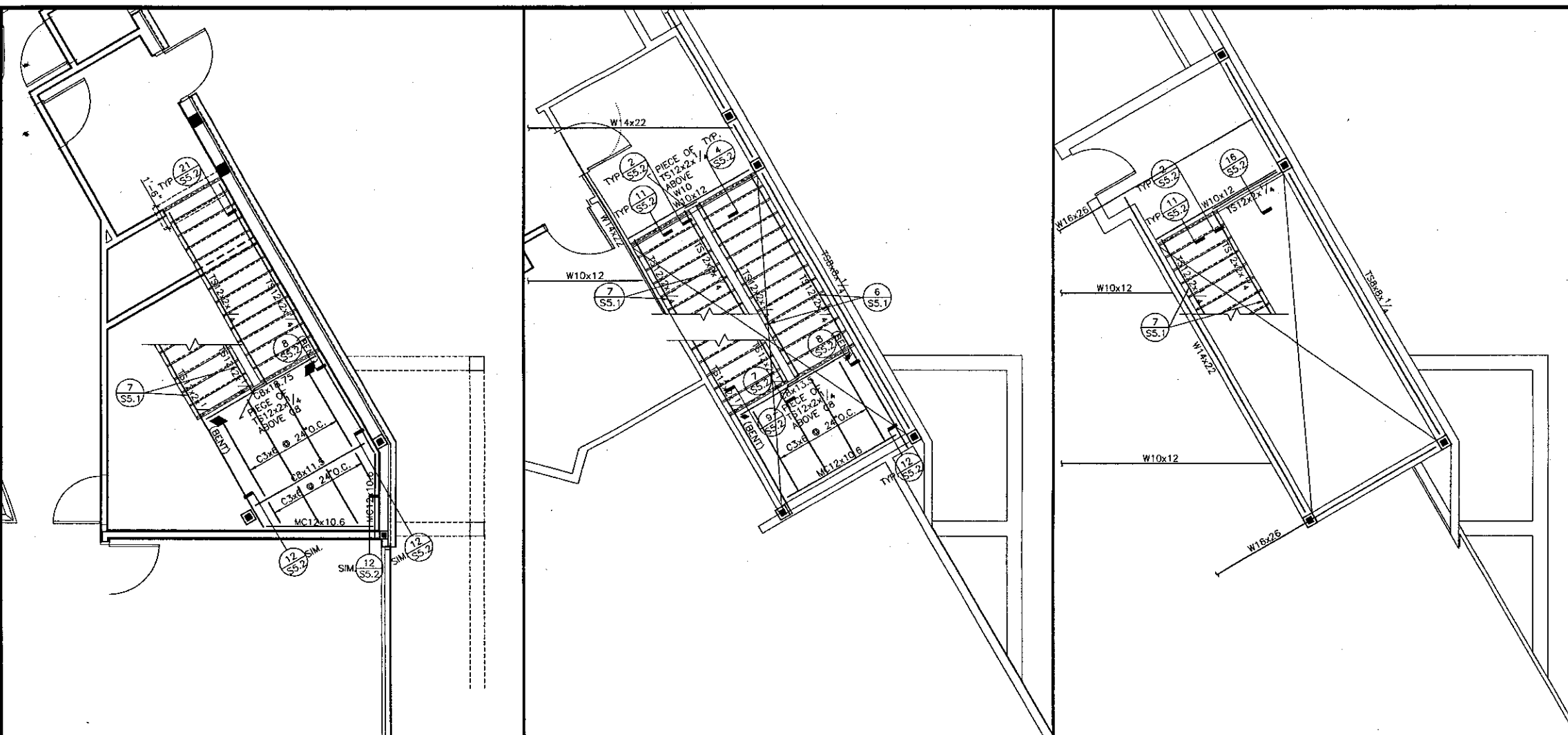
Architect Seal
No. 11157
Exp. 11/01
State of California

ENGINEER'S STAMP
ARCHITECT'S STAMP

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
FILE NUMBER: 56C1
APPL 03-104498
AC FLS SS
DATE 11/2/01

NO.	DESCRIPTION	DATE	BY

DRAWN: K. CONNER
CHECKED: L. TSO/B. MURDOCK
DATE: 09/24/01
JOB NO.: 9318
SHEET TITLE: SECTIONS AND DETAILS
SHEET: S4.11



STAIR 01 - FIRST FLOOR FRAMING PLAN

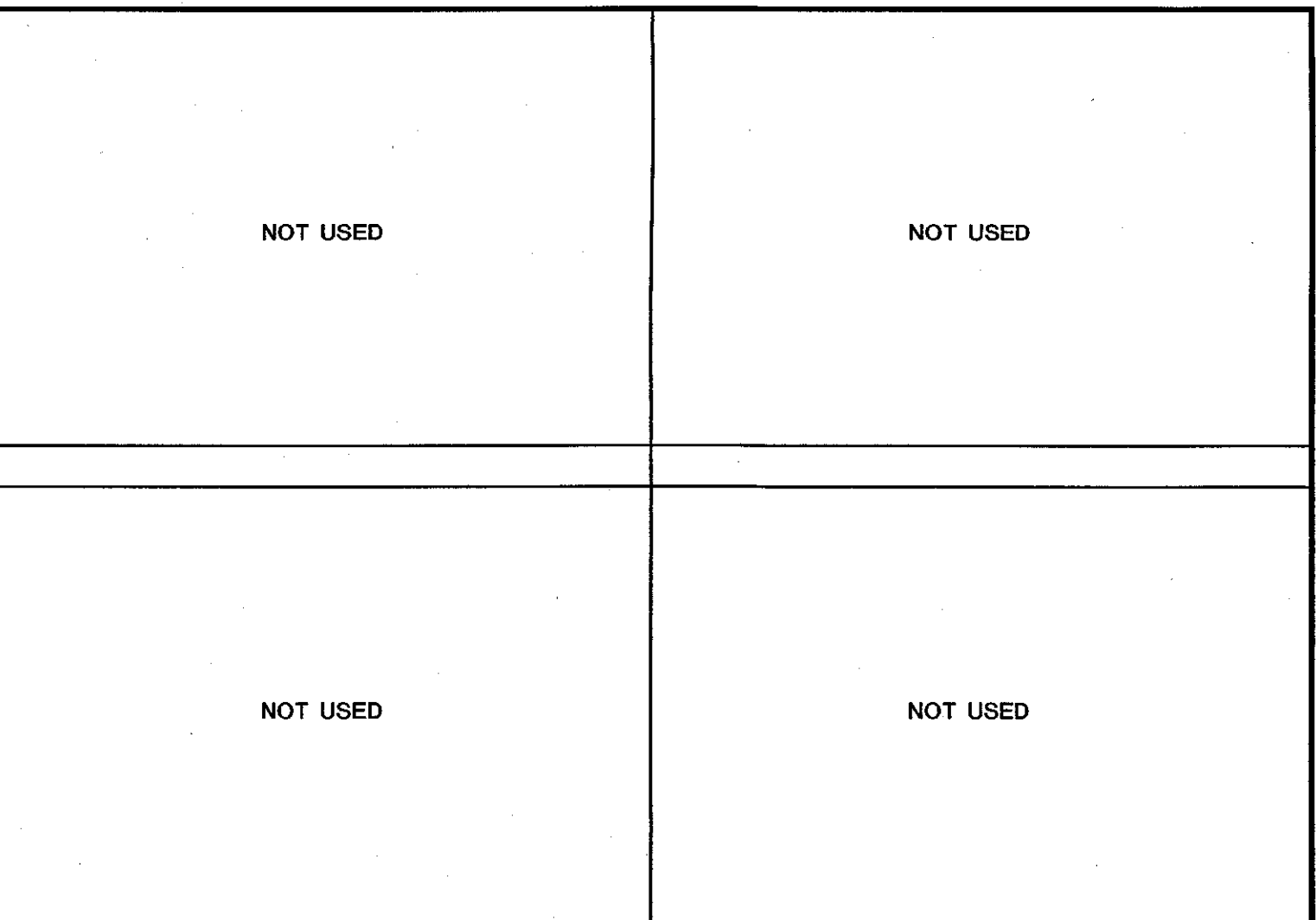
1/4" 6

STAIR 01 - SECOND FLOOR FRAMING PLAN

1/4" 7

STAIR 01 - THIRD FLOOR FRAMING PLAN

1/4" 8

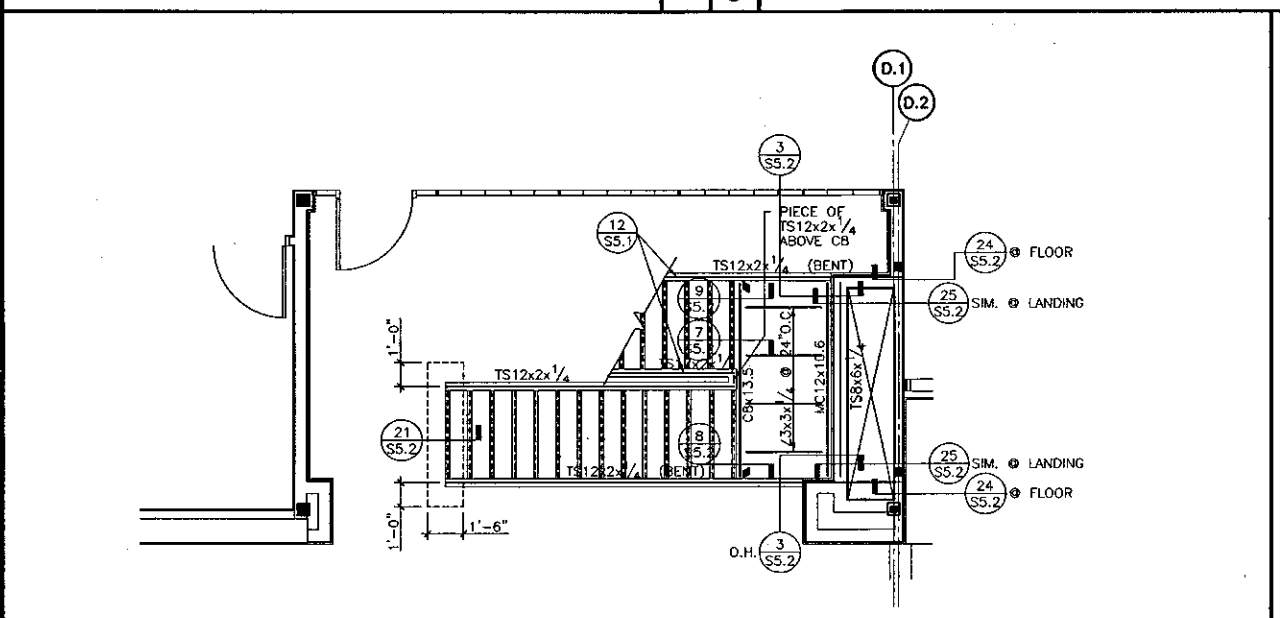


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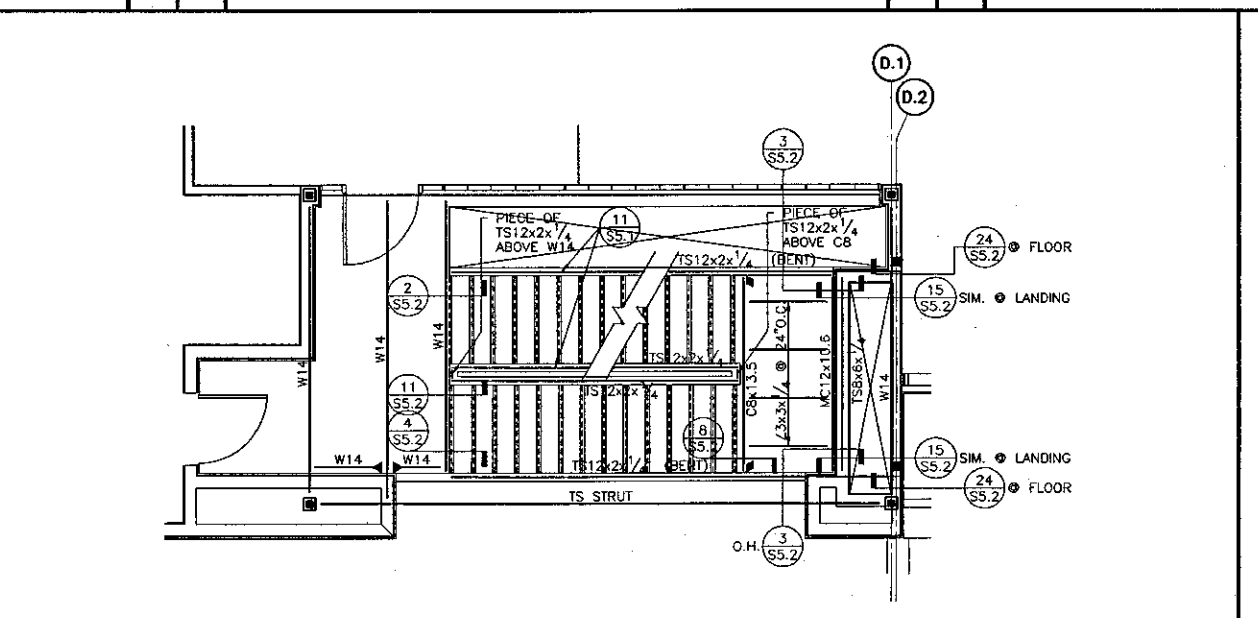
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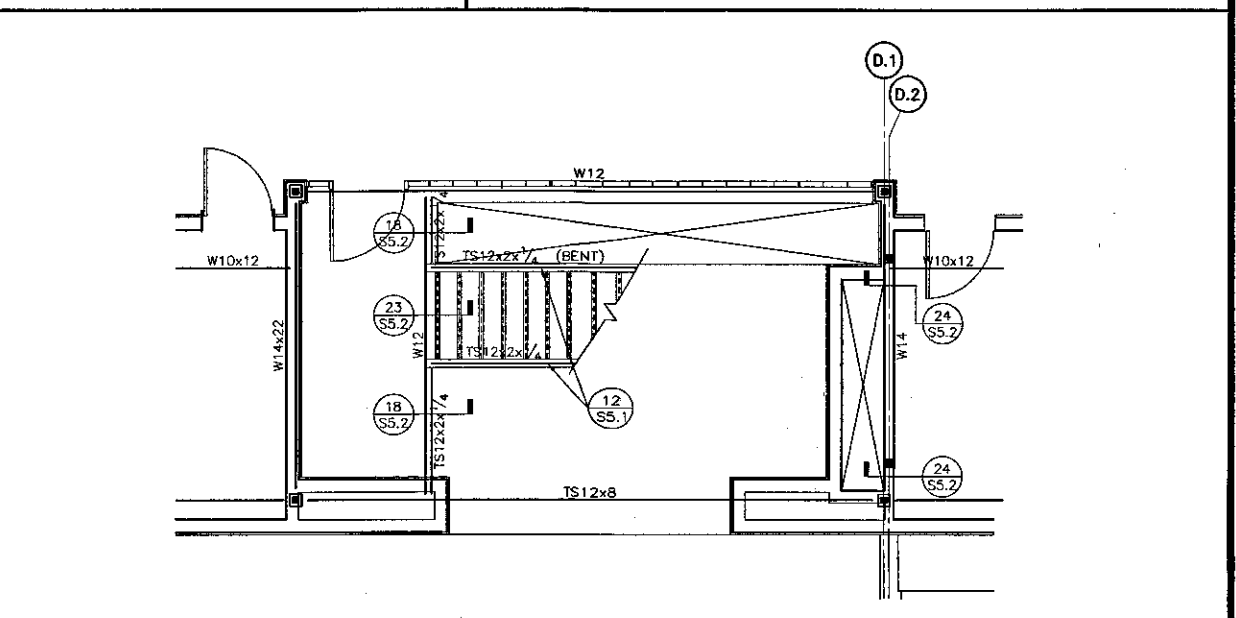
STAIR 02 - FIRST FLOOR FRAMING PLAN

1/4" 11



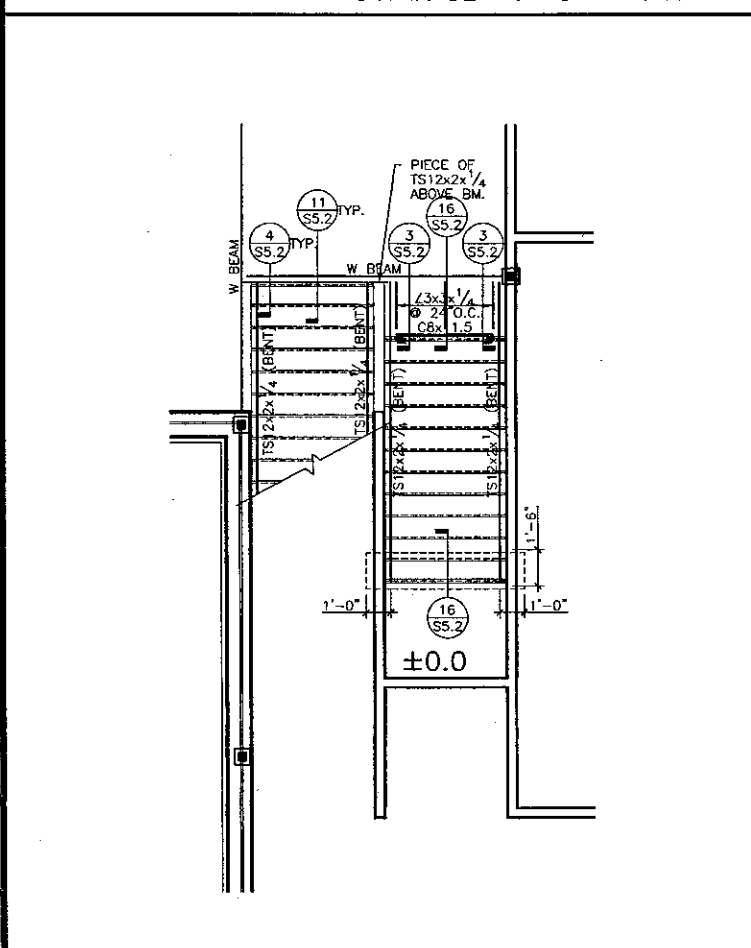
STAIR 02 - SECOND FLOOR FRAMING PLAN

1/4" 12



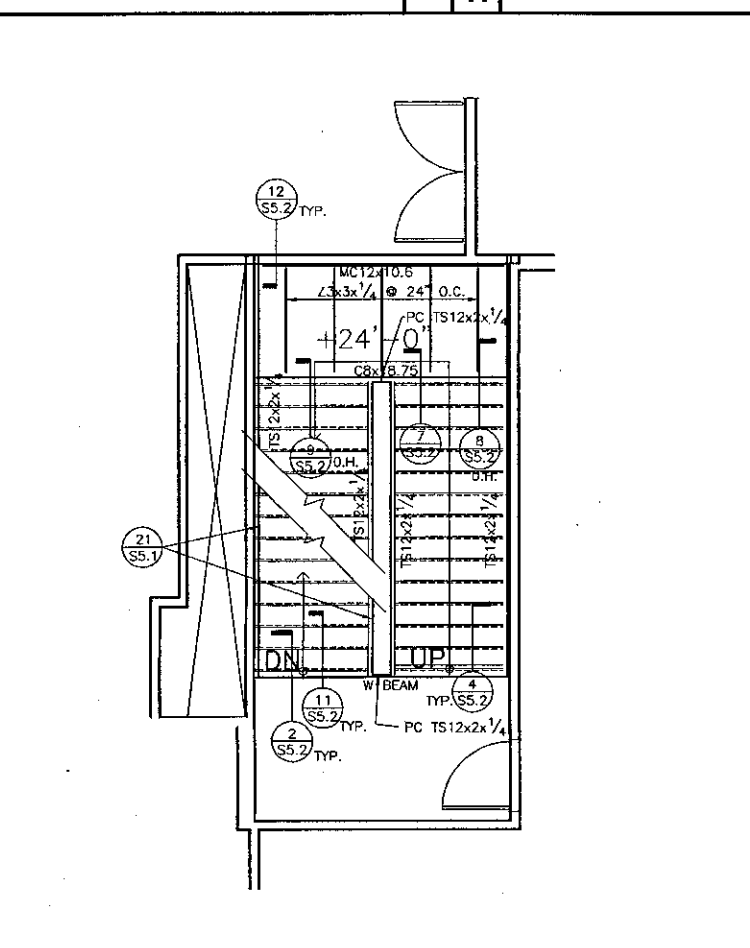
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1/4" 13



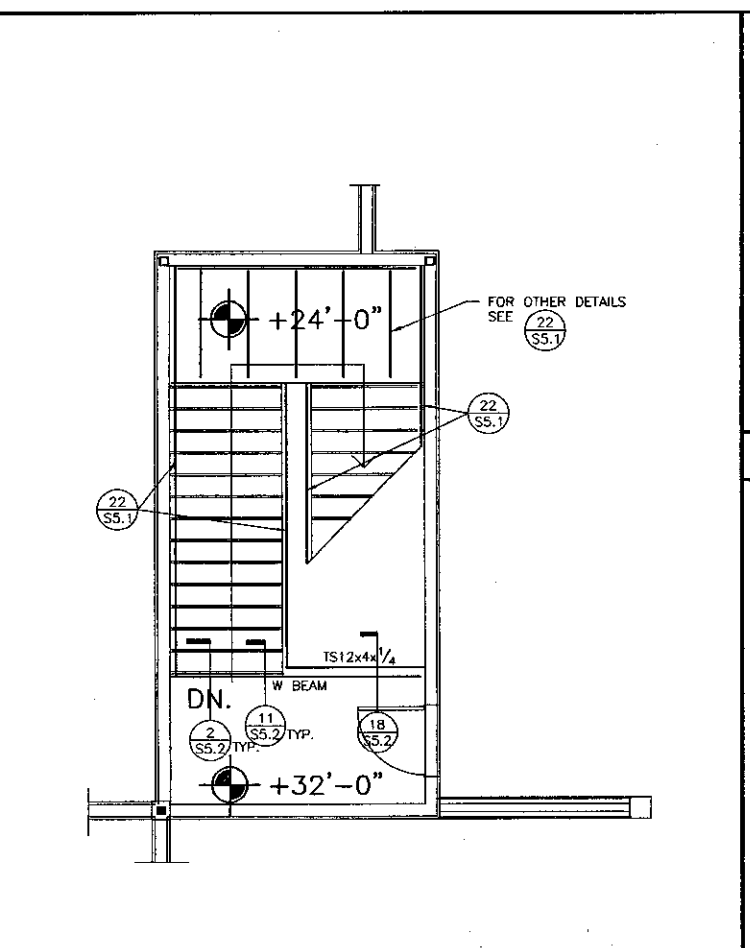
STAIR 03 - FIRST FLOOR FRAMING PLAN

1/4" 21



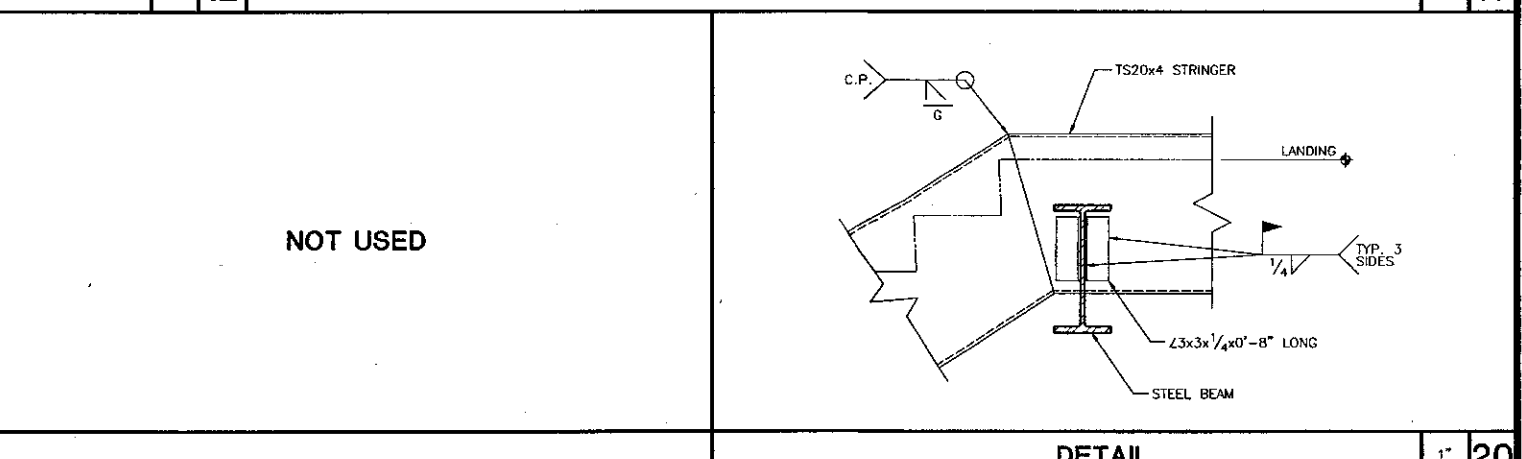
STAIR 03 - SECOND FLOOR FRAMING PLAN

1/4" 22



STAIR 03 - THIRD FLOOR FRAMING PLAN

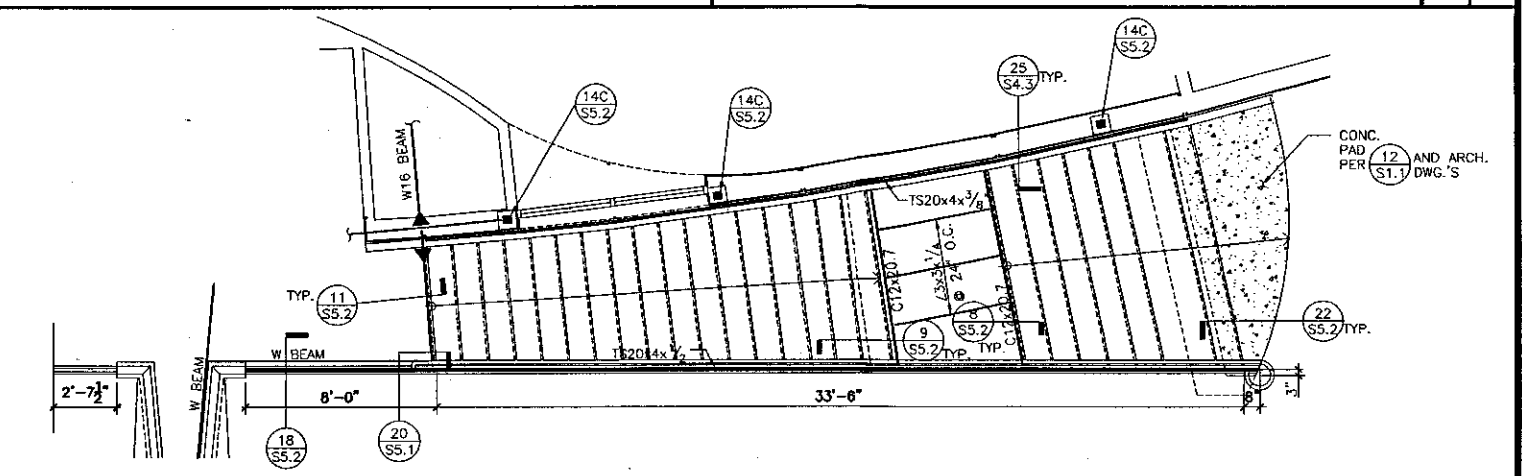
1/4" 23



NOT USED

DETAIL

1" 20



STAIR 04 - FRAMING PLAN O.H./STAIR 05 - FRAMING PLAN

1/4" 25

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805/963.1728

STEVE DOWTY, A.I.A.
PRINCIPAL IN CHARGE

THIERRY H. CASSAN
PROJECT DESIGNER

KANDA | TSO
KANDA AND TSO ASSOCIATES
CONSULTING STRUCTURAL ENGINEERS
511 MISSION STREET, SOUTH PASADENA, CA 91106-3035
TEL: (626) 441-1211 FAX: (626) 441-1011

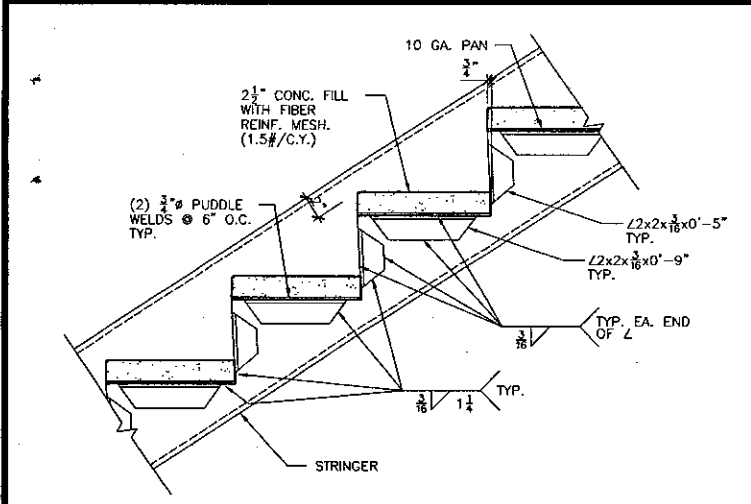
VENTURA COLLEGE LEARNING RESOURCES CENTER
Ventura County Community College District
Ventura, CA 93003
4667 Telegraph Road

ENGINEER'S STAMP: No. S 3073, Exp. 3-31-2005
ARCHITECT'S STAMP: No. A-11155, Ren. 11/01

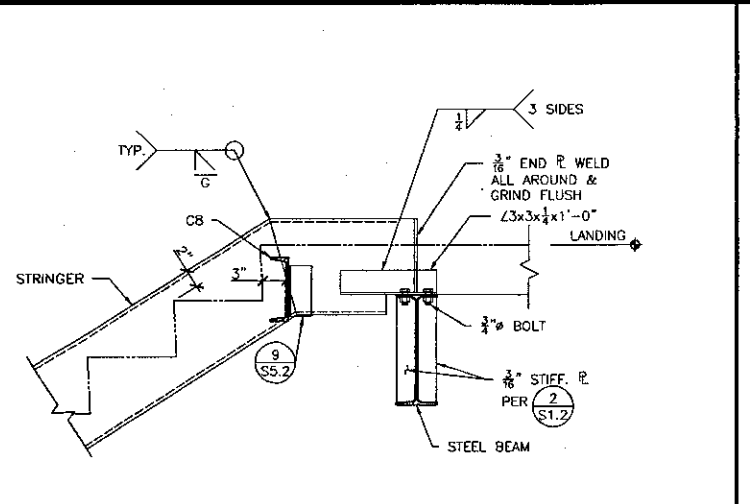
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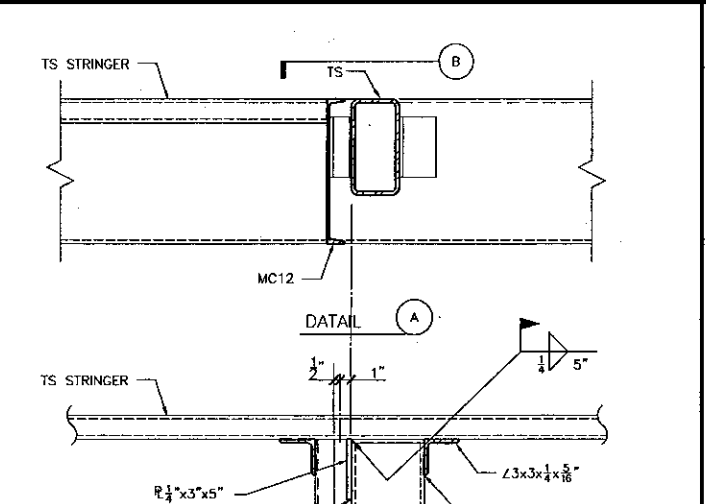
DRAWN: M. OLAGUE/C. VARELA
CHECKED: L. TSO/B. MURDOCK
DATE: 09/24/01
JOB NO.: 9318
SHEET TITLE: STAIR FRAMING PLANS
SHEET: S5.1



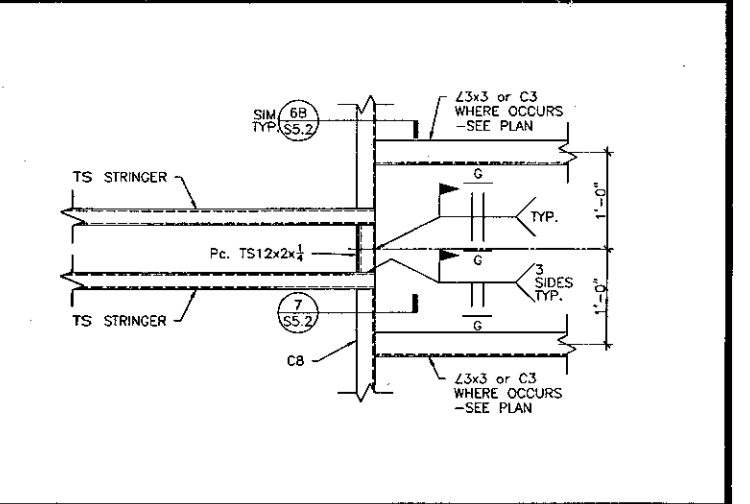
TYPICAL STAIR SECTION 1/2" 1



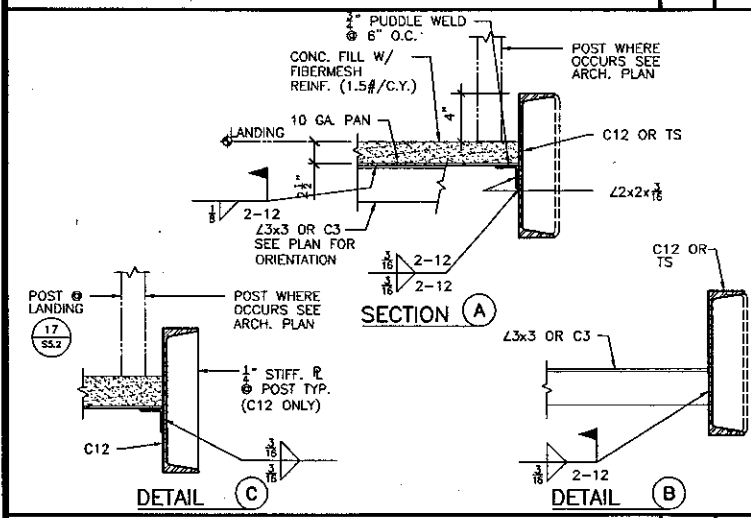
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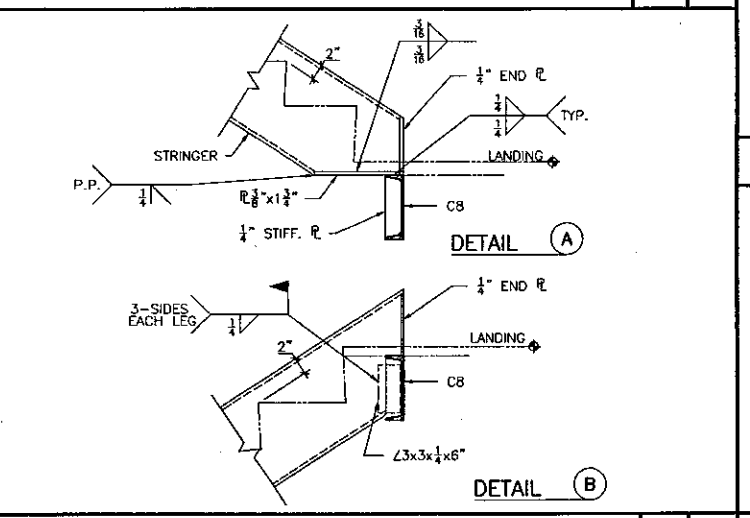
DETAIL 1" 4



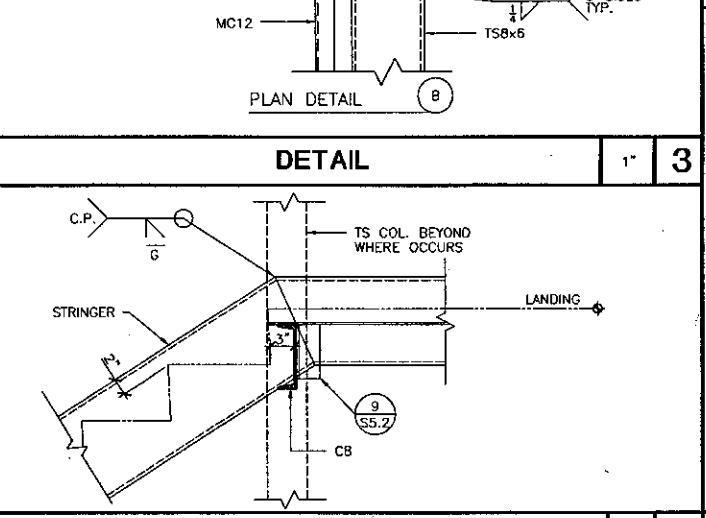
PLAN DETAIL 1" 5



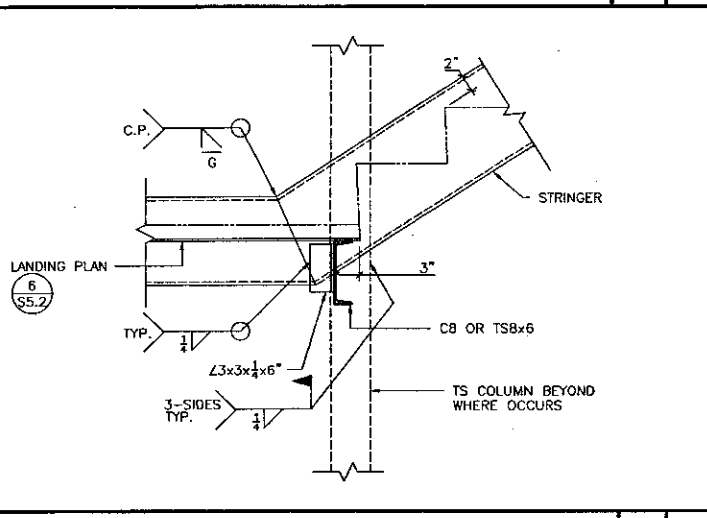
DETAILS 1/2" 6



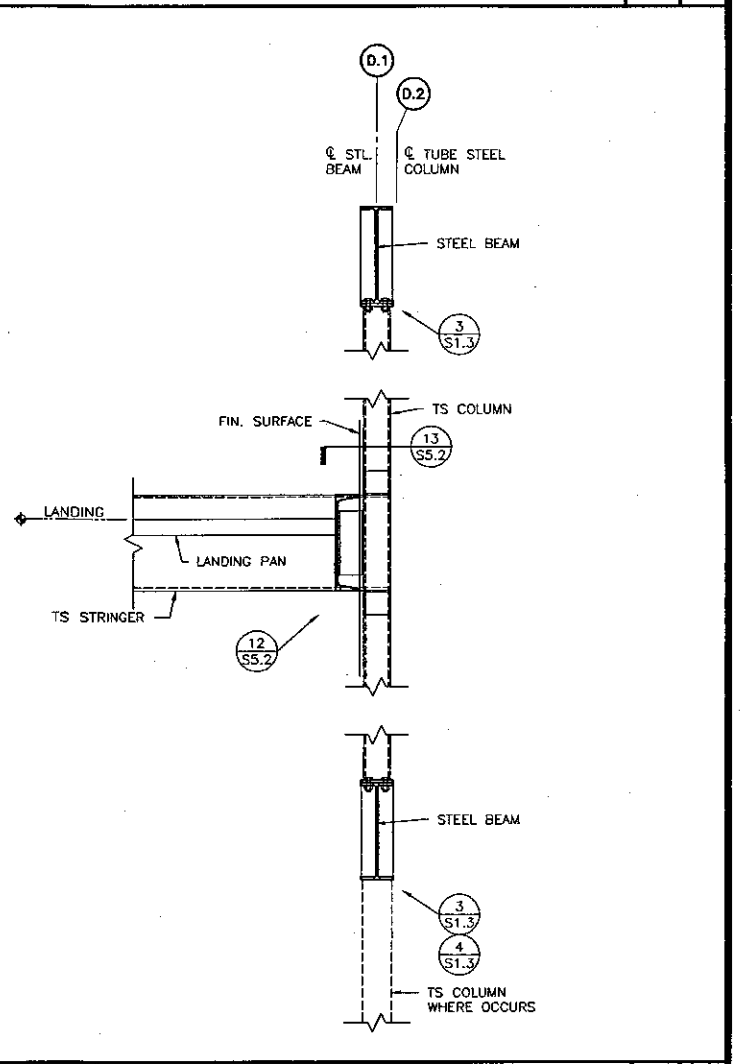
DETAILS 1" 7



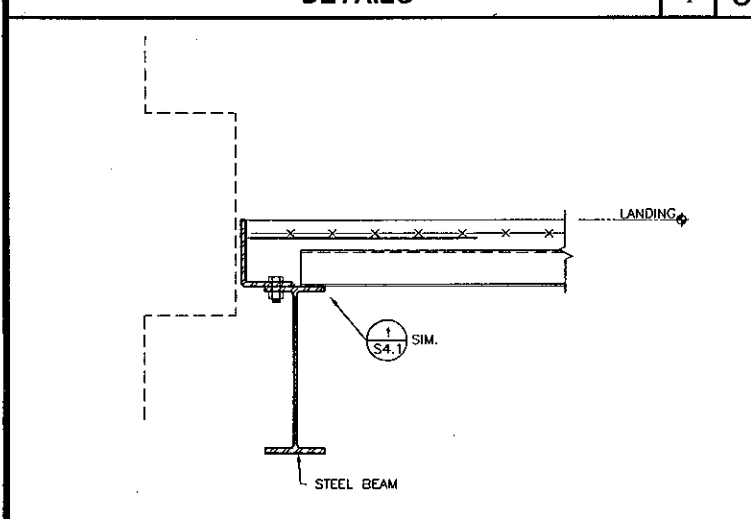
DETAIL 1" 8



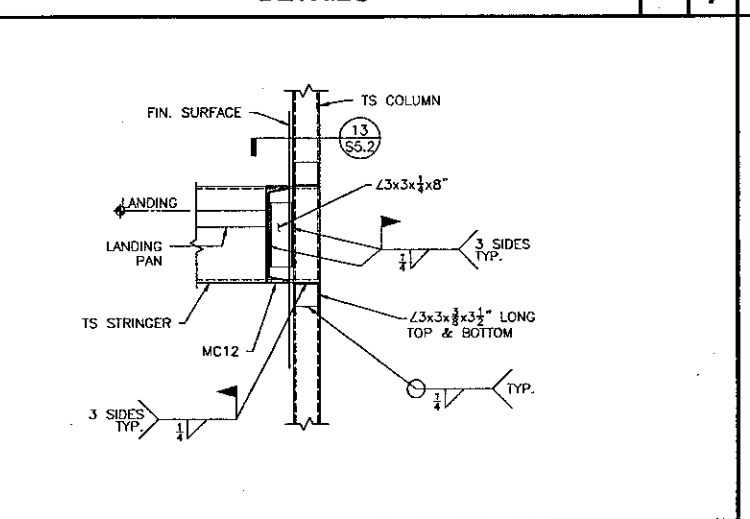
DETAIL 1" 9



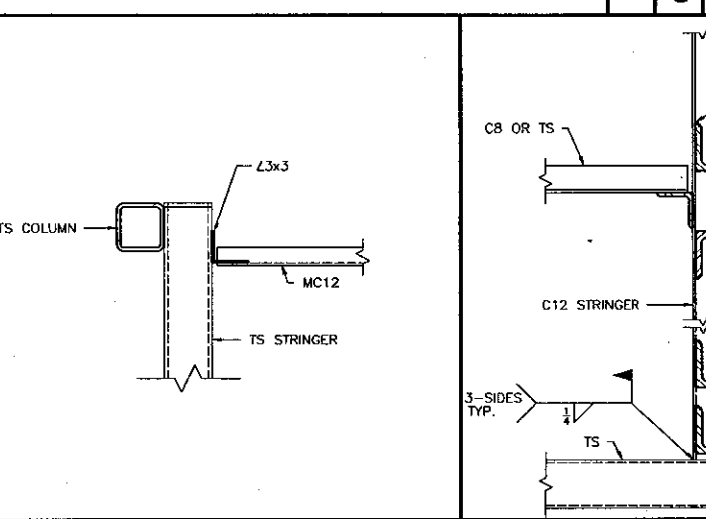
TYPICAL STAIR POST 1" 15



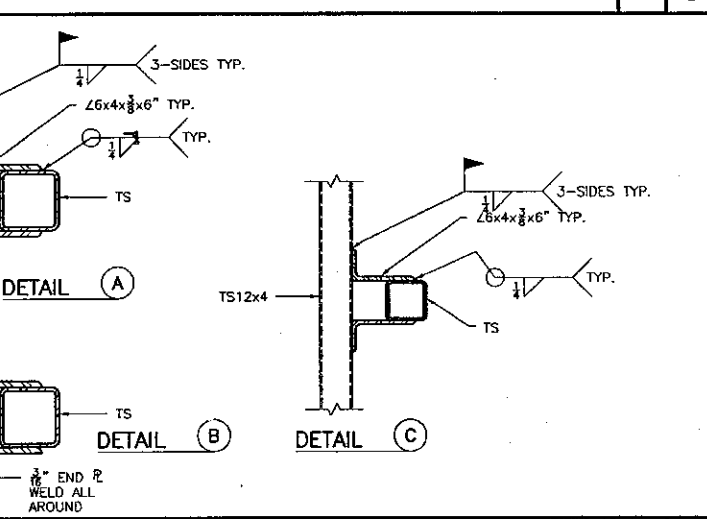
DETAIL 1/2" 11



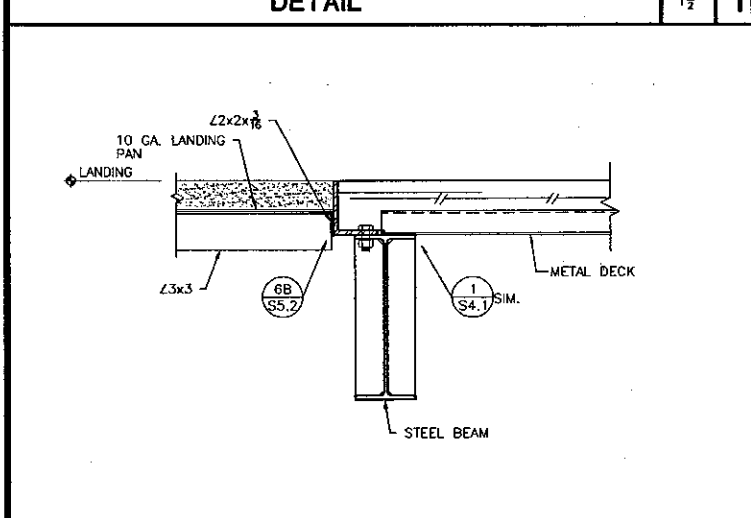
DETAIL 1" 12



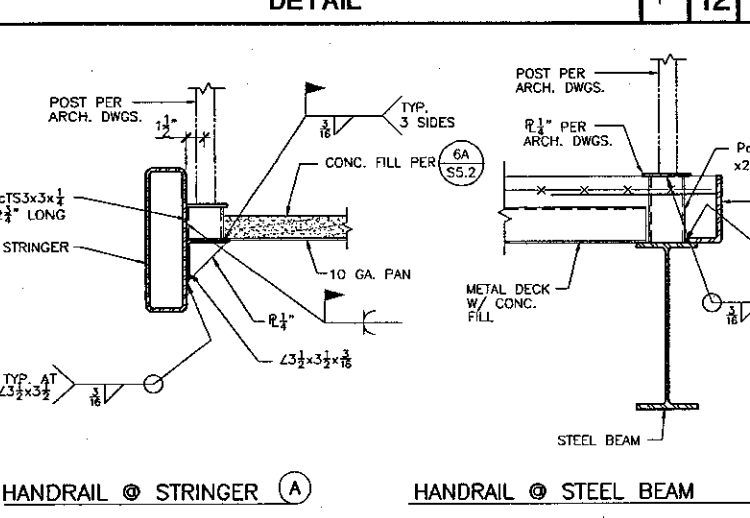
PLAN DETAIL 1" 13



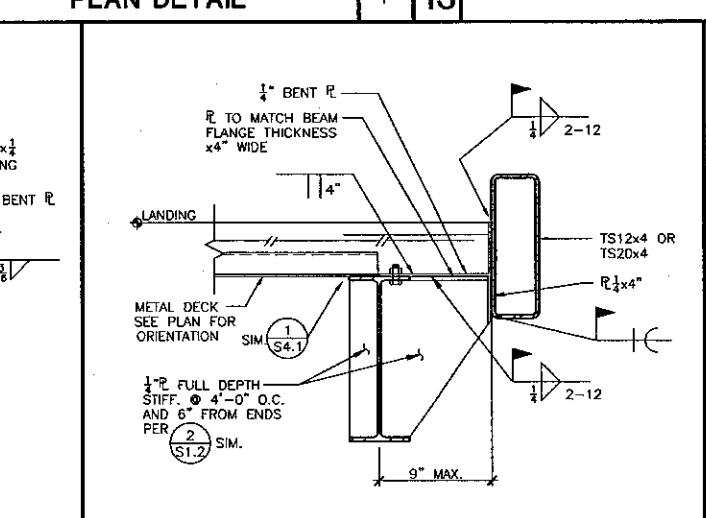
PLAN DETAILS 1/2" 14



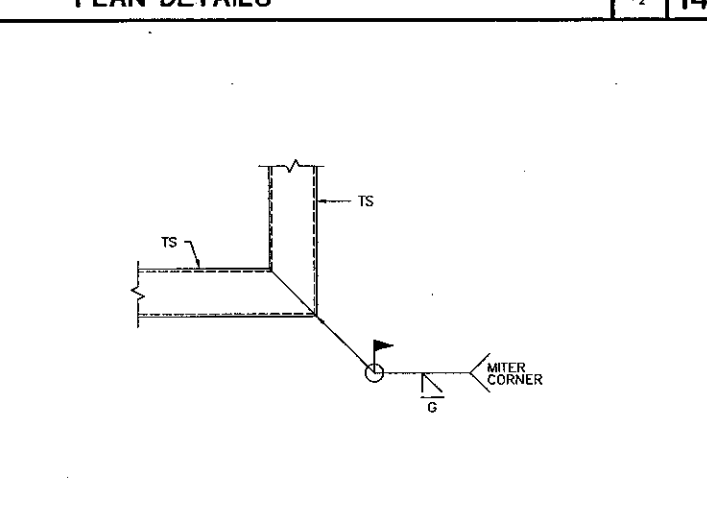
DETAIL 1/2" 16



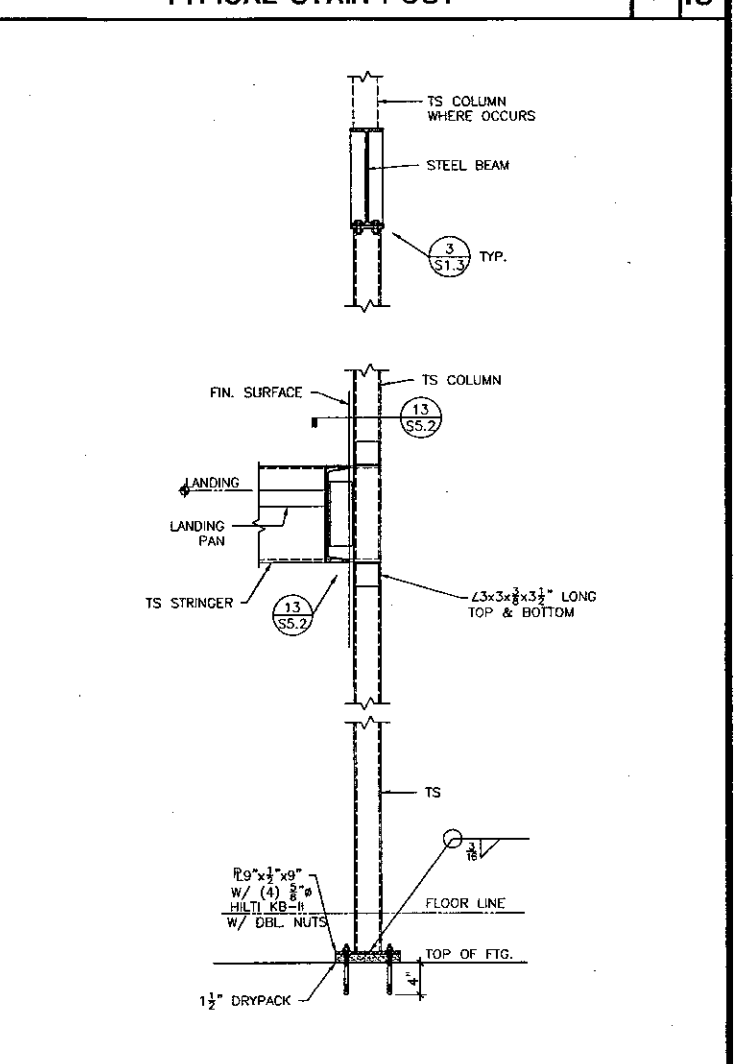
DETAILS 1/2" 17



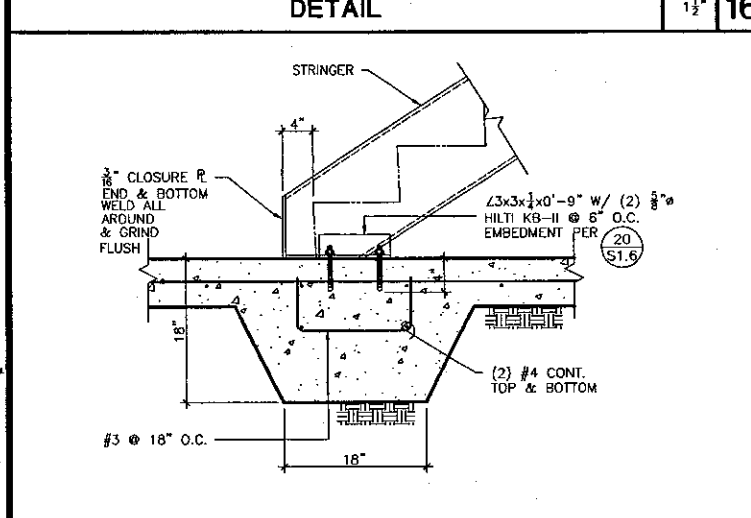
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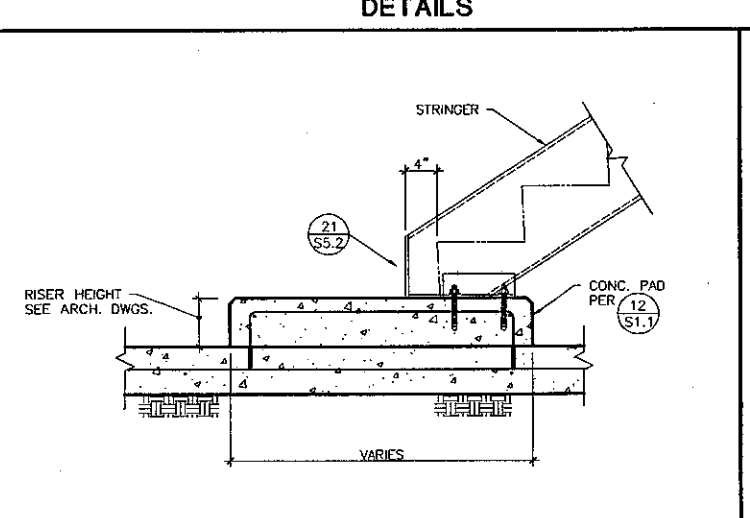
PLAN DETAIL 1" 19



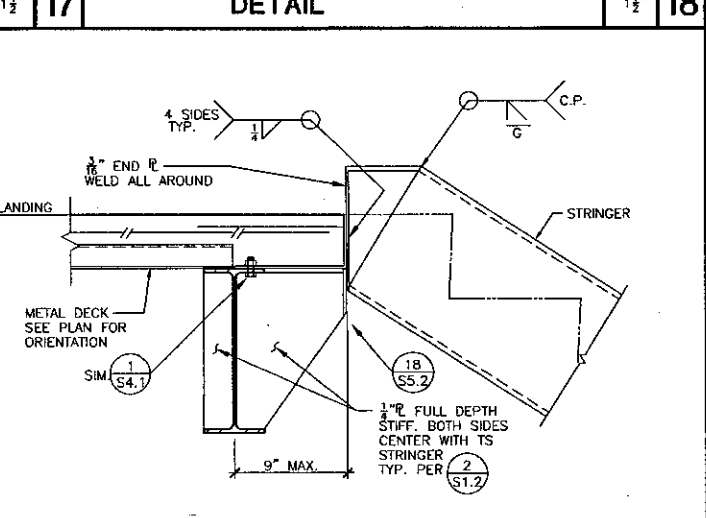
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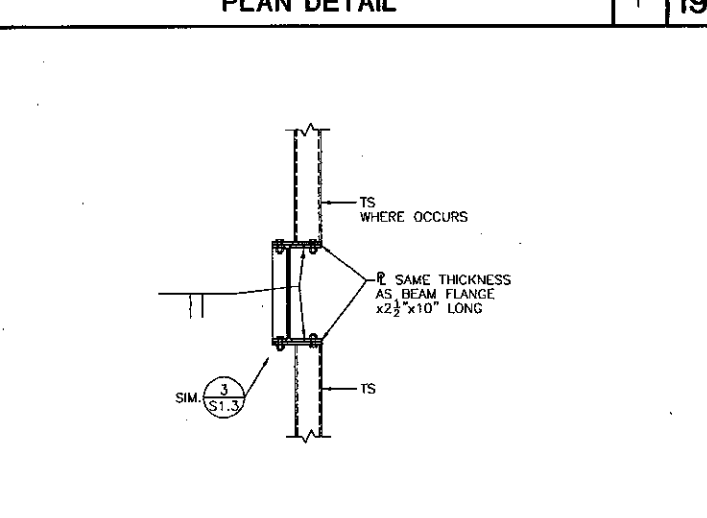
SECTION 1" 21



SECTION 1" 22



DETAIL 1/2" 23



STAIR DETAIL 1" 24

KRUGER BENSEN ZIEMER ARCHITECTS, INC.
30 W. ARRELLA CA
805/983.1728

STEVE DOWTY, A.I.A.
PRINCIPAL IN CHARGE

THIERRY H. CASSAN
PROJECT DESIGNER

KANDA | TSO
KANDA AND TSO ASSOCIATES
CONSULTING STRUCTURAL ENGINEERS
511 MISSION STREET
SOUTH PASADENA, CA 91030-3035
TEL: (626) 441-1111
FAX: (626) 441-1011

**VENTURA COLLEGE
LEARNING RESOURCES CENTER**

Ventura County Community College District
Ventura, CA 93003
4667 Telegraph Road

ENGINEER'S STAMP
H. VELASQUEZ
No. S 3073
Exp. 3-31-2005

ARCHITECT'S STAMP
L. TSO/B. MURODOCK
No. C-11157
Ren. 11/01

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
FILE NUMBER: 56C1
APPL 03-104498
AC: FLS 11/8/01 SS: MLD
DATE:

NO.	DESCRIPTION	DATE	BY

DRAWN: H. VELASQUEZ
CHECKED: L. TSO/B. MURODOCK
DATE: 09/24/01
JOB NO.: 931B
SHEET TITLE: STAIR DETAILS
SHEET: S5.2

AIR HANDLING UNIT SCHEDULE

NOTE: ALL MECHANICAL EQUIPMENT SHALL BE CONTROLLED BY THE ENERGY MANAGEMENT SYSTEM UNLESS OTHERWISE NOTED. SEE SHEET M8.0

Table with columns for TAG, MANF, SERVICES, UNIT WEIGHT, SUPPLY FAN MODEL, CFM, W/C ESP, VOLTAGE, PHASE, HP, RPM, NOTES, RETURN FAN FAN MODEL, CFM, W/C ESP, VOLTAGE, PHASE, HP, MIXING BOX MODEL, FILTER BOX MODEL, COILING, CAPACITY, FLOW RATE, P.D. FTD, EVT, LVT, ELECTRICAL NOTES.

FAN COIL SCHEDULE

Table with columns for TAG, MANF & MODEL, NOMINAL CFM, COOLING (BTUH), HEATING (BTUH), ELECTRICAL DATA, FLA, MOCP, WEIGHT, HP, NOTES, WATER CONTROL VALVE.

CHILLER SCHEDULE

Table with columns for TAG, MANF. & MODEL, EER, IPLV, CAPACITY @ 95 F, ENT. WATER, LVG WATER, VOLTAGE, PHASE, MCA, MOCP, VOLTAGE, CONTROL, POWER, UNIT WEIGHT, VIBRATION ISOLATION, VIBRATION ISOLATION LBS, OPTIONS, REFRIGERANT.

BOILER SCHEDULE

Table with columns for TAG, MANF. & MODEL, BTUH INPUT, BTUH OUTPUT, H2O CONNECTION, GAS CONNECTION, NDY RATING, VENT SIZE, VOLTAGE, PHASE, MCA, MOCP, WEIGHT, OPTIONS.

CHILLED WATER PUMPS

Table with columns for TAG, MANF. & MODEL, FLOW RATE, HEAD, WEIGHT INC BASE, VOLTAGE, PHASE, HP, NOTES, VIBRATION CONTROL.

HOT WATER PUMPS

Table with columns for TAG, MANUFACTURER, FLOW RATE, HEAD, WEIGHT, VOLTAGE, PHASE, HP, NOTES, VIBRATION CONTROL.

EXHAUST FANS

Table with columns for TAG, SERVING, MAKE & MODEL, CFM, ESP W/C, RPM, ELECTRICAL DATA, PHASE, WATTS HP, NOTES, CONTROL, WEIGHT.

AHU VALVE SCHEDULE

Table with columns for TAG, MODEL, SIZE & TYPE, CONTROL VOLTAGE, FLOW @ PD.

AHU DAMPER ACTUATOR SCHEDULE

Table with columns for TAG, MODEL, QUANTITY, CONTROL VOLTAGE.

AIR DISTRIBUTION SCHEDULE

Table with columns for TAG, KRUEGER MODEL, SIZE, COLOR, FRAME STYLE, NOTES, MATERIAL.

MISC. EQUIPMENT

- SMOKE DETECTOR, COMPATIBLE WITH FIRE ALARM SYSTEM...
FIRE SMOKE DAMPER, MANF. BY GREENHECK...
FIRE DAMPER, GREENHECK DYNAMIC RATED...

ACCESSORIES

Table with columns for TAG, DESCRIPTION, SERVICE, MAKE, MODEL, CONNECTIONS, NOTES.

SEE SPECIFICATIONS FOR VIBRATION & NOISE ISOLATION REQUIREMENTS

KRUEGER BENSON ZIEMER ARCHITECTS, INC. 30 W. HERRLICKA SANTA BARBARA, CA 93101
THIERRY H. CASSAN PROJECT DESIGNER
alternative energy & environmental engineering

VENTURA COLLEGE LEARNING RESOURCES CENTER
Ventura County Community College District
Ventura, CA 93003
4667 Telegraph Road

Professional Engineer and Architect stamps for the State of California.

Table with columns for NO., DESCRIPTION, DATE, BY.

MECHANICAL SCHEDULES
VENTURA COMMUNITY COLLEGE LEARNING RESOURCES CENTER
M1.0

DEDUCTIVE ALTERNATE MECHANICAL SCHEDULE

AIR HANDLING UNIT SCHEDULE

TAG	MANF.	SERVES	UNIT WEIGHT	SUPPLY FAN MODEL #	CFM	WC ESP	VOLTAGE	PHASE	HP	RPM	NOTES	RETURN FAN MODEL #	CFM	WC ESP	VOLTAGE	PHASE	HP	NOTES	EXHAUST BOX MODEL #	NOTES	FILTER BOX MODEL #	COOLING COIL	TOTAL COOLING CAPACITY					ELECTRICAL NOTES
																							MBTUH	FLOW RATE	P.D. (FT)	EWI	LWT	
AHU 1-A	CARRIER 39TRLBZ-1-JN6-AE 39TALCTA-R-JTP-AD 39TA-U11S28009-A	1ST FLOOR MAIN BLDG	1411E	AF53 AIRFOIL	31450	1.75'	480	3	40	1045	PREMIUM EFF. TEFC MOTOR W/ ABB VARIABLE FREQ. DRIVE 2'/3.0" DOUBLEVALL	RAF2 AIRFOIL	26300	1	480	3	15	AIRFOIL, PREMIUM EFF. TEFC W/ ABB VARIABLE FREQ. DRIVE & EXTERN AIRFLOW MONITORING STATION ON DA WITH NEW 3" ENCLASURE	EXBI MXB5	PREMIUM DAMPERS	BCF1 2' 30/30 & 15" BAG 85% EFFICIENCY	6 ROW II FPI FULL CIRCUIT HERESITE COATING	1241 (SEN- 049)	206	10	45	57.0	SINGLE POINT ELECTRICAL DISCONNECT W/ FACTORY MOUNTED DISCONNECT W/ ULTRAVIOLET LIGHTS & COILING COIL
AHU 3-A	CARRIER 39T0NBZ JLB-AE 39THNCTA-E-JDR-AD 39TA-U11S2801E-A	SECOND FLOOR MAIN BUILDING	18647	AF53 AIRFOIL	41500	1.75'	480	3	50	1029	PREMIUM EFF. TEFC MOTOR W/ ABB VARIABLE FREQ. DRIVE 2'/3.0" DOUBLEVALL	RAF2 AIRFOIL	38000	1	480	3	20	AIRFOIL, PREMIUM EFF. TEFC W/ VARIABLE FREQ. DRIVE & EXTERN AIRFLOW MONITORING STATION ON DA WITH NEW 3" ENCLASURE	EXBI MXB5	PREMIUM DAMPERS	BCF1 2' 30/30 & 15" BAG 85% EFFICIENCY	6 ROWS 8 FPI FULL CIRCUIT HERESITE COATING	1236 (SEN- 1009)	242	11.6	45	57.0	SINGLE POINT ELECTRICAL DISCONNECT W/ FACTORY MOUNTED DISCONNECT W/ ULTRAVIOLET LIGHTS & COILING COIL

CHILLER SCHEDULE

TAG	MANF. & MODEL	EER	T.P.V.	CAPACITY @ 95 F	ENT. WATER	LVG WATER	ELECTRICAL DATA				CONTROL	POWER	MOCP	UNIT WEIGHT	VIBRATION ISOLATION	VIBRATION ISOLATION LBS	OPTIONS	REFRIGERANT
							VOLTAGE	PHASE	MCA	MOCP								
CH 1-A	CARRIER 30-GX-160-UF641	9.5	11.9	151 TONS	57 F	45 F	480	3	364	500	115	30	33	9934	2" DEFLECTION SPRINGS ON STEEL BASE FRAME	750	DISCONNECT, EMM MODULE, FACTORY START-UP FLOW SWITCH, COPPER FINS W/ EPOXY COATING	R-134A

FAN COIL SCHEDULE

TAG	MANF. & MODEL	NOMINAL CFM	NOMINAL COOLING (BTUH)	NOMINAL HEATING (BTUH)	ELECTRICAL DATA				WEIGHT	NOTES
					VOLTAGE	PHASE	FLA	MOCP		
FC 1	CARRIER 42VKN 010 Y 3 SERVES SMALL OFFICES	420/520/280	NONE	10162 140 F @ 1.0 GPM	208	1	0.6	15	65.6	HEATING - BELIMO B-415 LV24

DEDUCTIVE ALTERNATE

1. INSTALL CARRIER AIR HANDLING UNITS PER SCHEDULE ON THIS SHEET INSTEAD OF THE TWO TEMPTROL CUSTOM AHU-1 & AHU-2
2. INSTALL ONE 160 NOMINAL TON CHILLER PER SCHEDULE ON THIS SHEET INSTEAD OF THE TWO 115 TON CHILLERS
3. DELETE PUMP P-2 & PIPING SERVING THE SECOND CHILLER
4. DELETE AIR CONDITIONING AT THIRD FLOOR INDIVIDUAL OFFICES. INSTALL HEAT ONLY FAN COILS PER SCHEDULE ON THIS SHEET. (NOTE CHILLED WATER PIPING IS STILL NEEDED TO SERVE ALL AHUS AND FAN COILS FC-2 THRU FC-10)
5. DELETE EMS MODULE FOR CHILLER
6. INSTALL BOTH VOLUME TANKS IN SERIES



KRUGER BENSEN ZIEMER
ARCHITECTS, INC. AIA
30 W. ARDELGA
805/963.1725 SANTA BARBARA, CA 93101

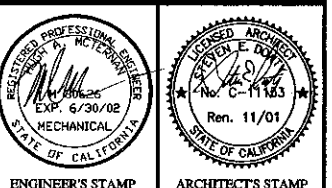
STEVE DOWTY, A.I.A.
PRINCIPAL IN CHARGE

THIERRY H. CASSAN
PROJECT DESIGNER

All design components not shown but indicated or mentioned by the drawing are to be installed in accordance with the manufacturer's instructions. The contractor shall be responsible for obtaining all necessary permits. The contractor shall be responsible for obtaining all necessary permits. The contractor shall be responsible for obtaining all necessary permits.



**VENTURA COLLEGE
LEARNING RESOURCES CENTER**
Ventura County Community College District
4667 Telegraph Road
Ventura, CA 93003

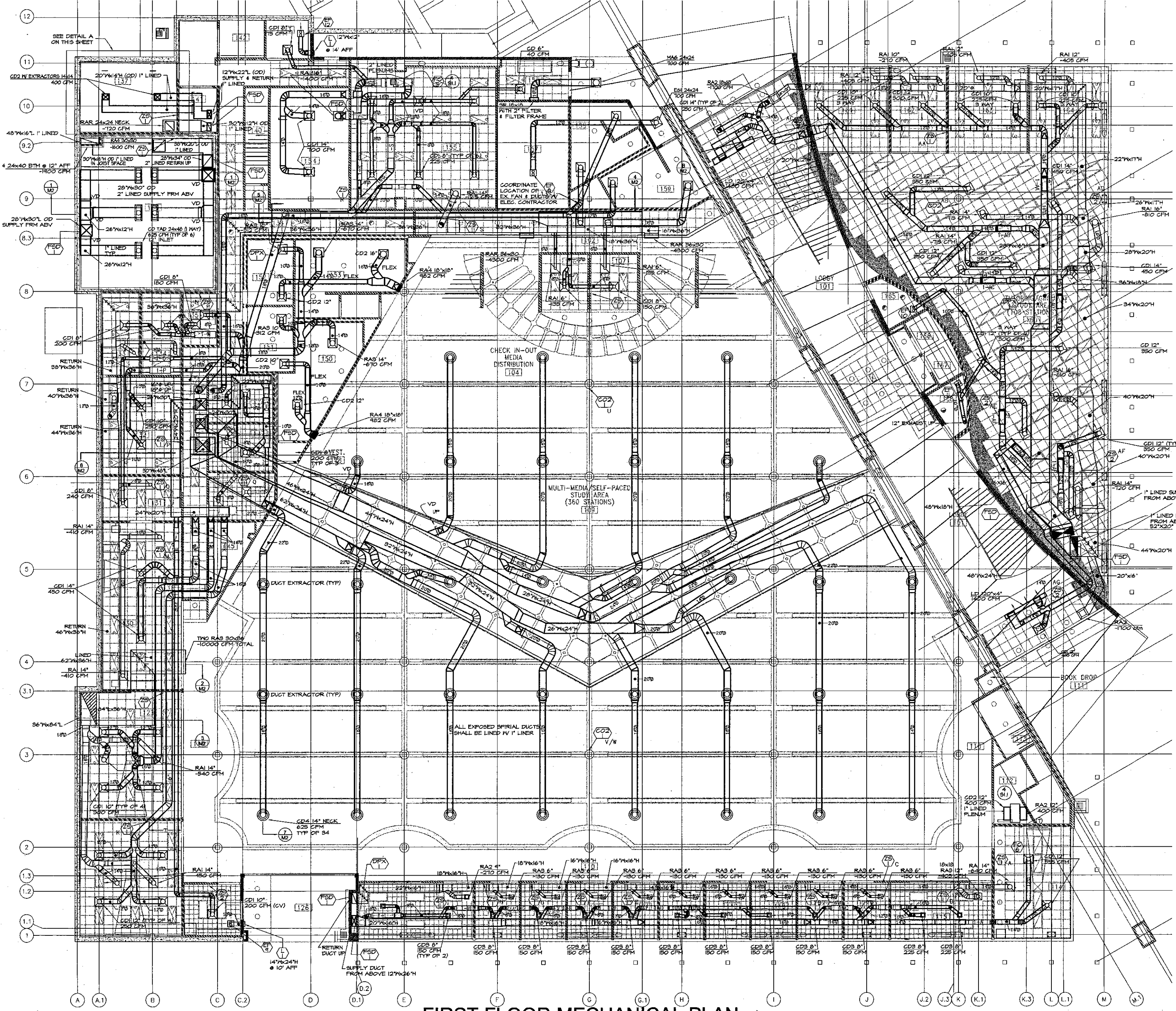


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FILE NUMBER: 56-C
APPL 03 - 104498
DATE: 11/2/17

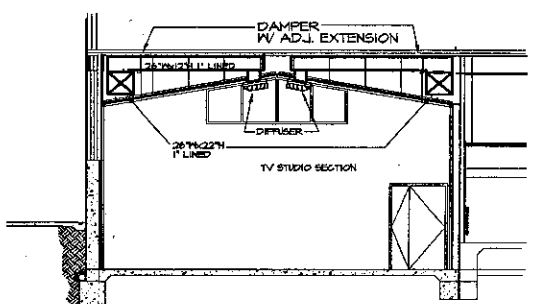
NO.	DESCRIPTION	DATE	BY

DRAWN: HAMDUFEMAR
CHECKED: PW/HAM
DATE: SEPT. 24, 2001
JOB NO.: 9318
SHEET TITLE:
MECHANICAL SCHEDULES
VENTURA COMMUNITY COLLEGE
LEARNING RESOURCES CENTER
DEDUCTIVE ALTERNATE

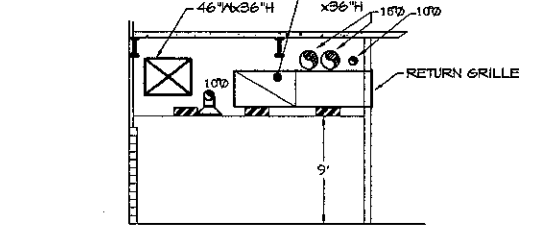
SHEET
M1.0 - A



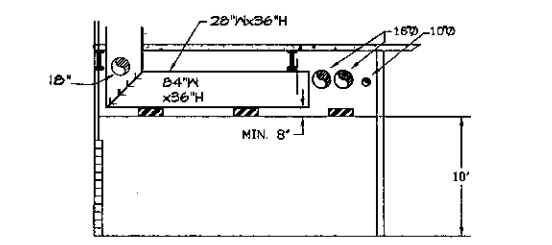
FIRST FLOOR MECHANICAL PLAN



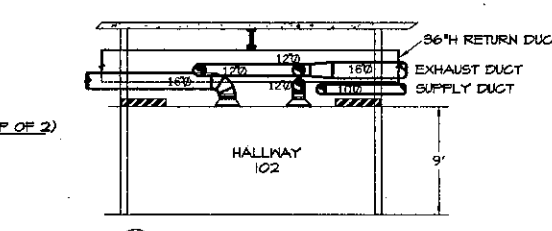
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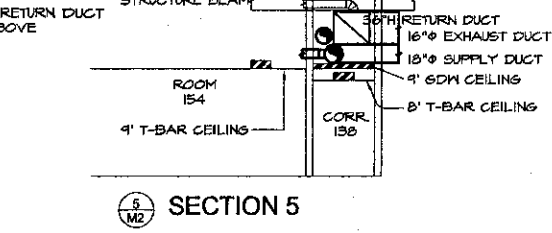
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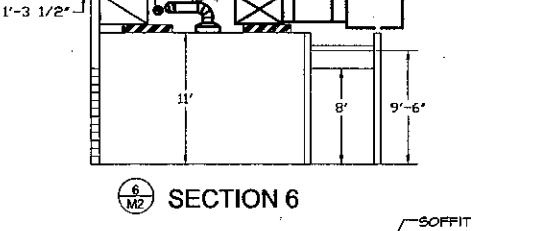
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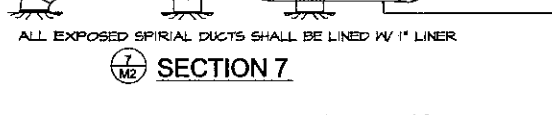
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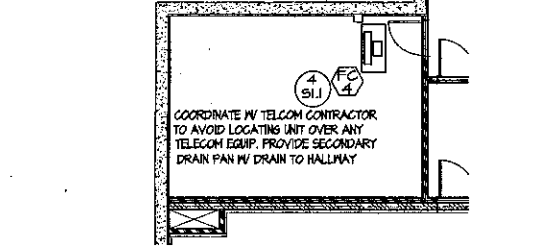
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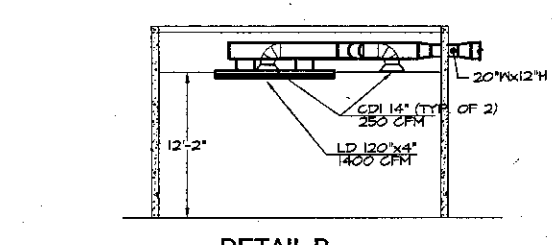
SECTION 6



SECTION 7



DETAIL A



DETAIL B

KRUGER BENSON ZIEMER ARCHITECTS, INC.
 30 W. ARROYO AVENUE SANTA BARBARA, CA 93101
 (805) 963-1726

STEVE DOWDY, A.I.A.
 PRINCIPAL IN CHARGE

THIERRY H. CASSAN
 PROJECT DESIGNER

alternative energy & environmental engineering
 MECHANICAL ENGINEERS
 838 EAST FRONT ST. VENTURA, CA 93001
 (805) 653-1722 FAX: (805) 653-7260

VENTURA COLLEGE LEARNING RESOURCES CENTER
 Ventura County Community College District
 4667 Telegraph Road
 Ventura, CA 93003

ENGINEER'S STAMP
 ARCHITECT'S STAMP

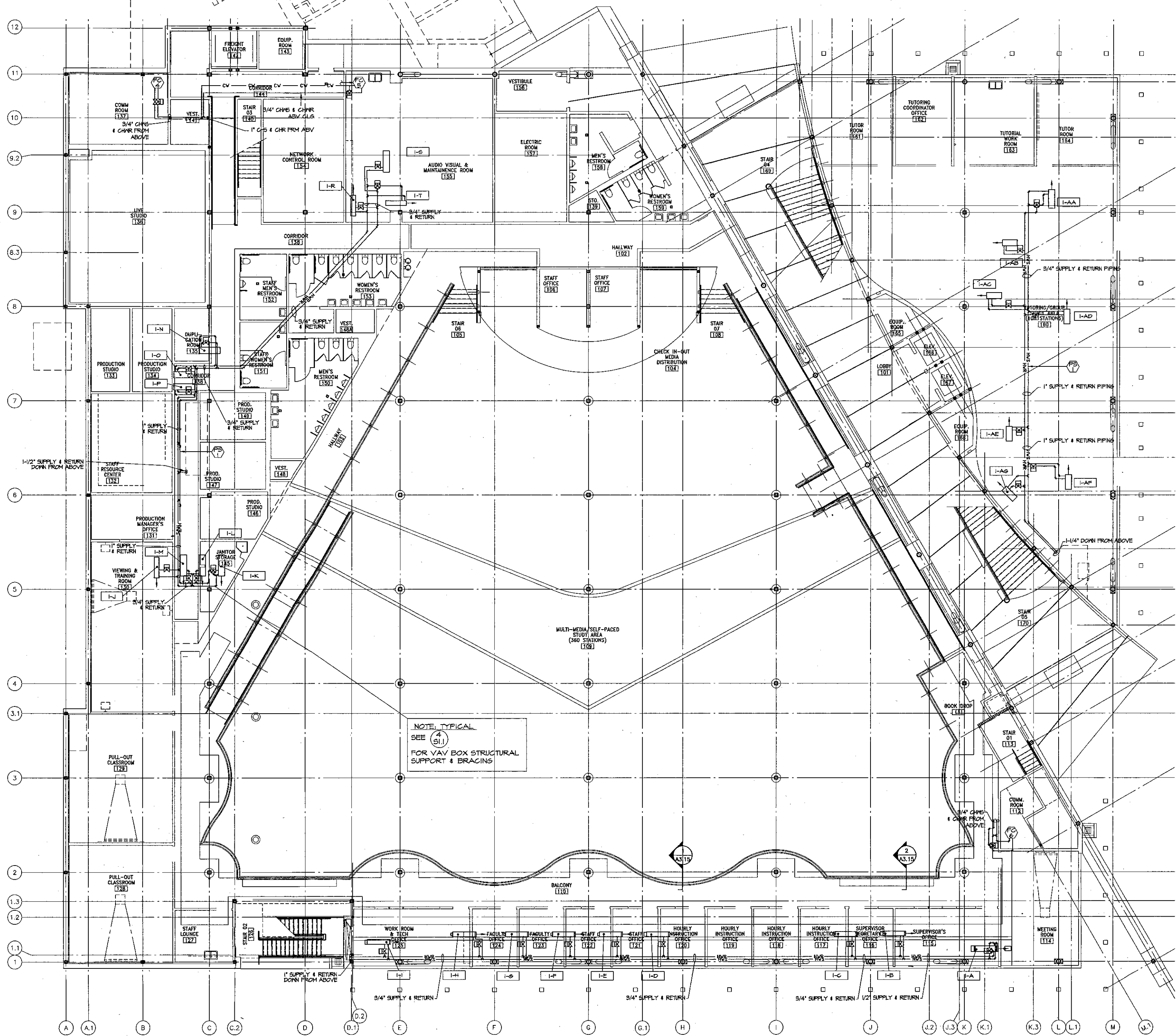
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 DIVISION OF THE STATE ARCHITECT
 FILE NUMBER: 86-C-1
 APR 03 - 104498
 AC: X RLS: P.D. SS: WJ
 DATE: 11/1/01

NO.	DESCRIPTION	DATE	BY

DRAWN: HAMIDUFMAR
CHECKED: PW/HAM
DATE: SEPT. 24, 2001
JOB NO. 9318

SHEET TITLE
FIRST FLOOR MECHANICAL PLAN
VENTURA COLLEGE COMMUNITY COLLEGE LEARNING RESOURCES CENTER

SHEET
M2.0



**FIRST FLOOR
HYDRONIC PLAN
NO SCALE**

KRUGER BENSEN ZIEMER ARCHITECTS, INC.
30 W. ARROYO AVE. SANTA BARBARA, CA 93101
805/963.1725

STEVE DOWDY, A.I.A.
PRINCIPAL IN CHARGE

THIERRY H. CASSAN
PROJECT DESIGNER

All design components and plans indicated or referenced by the drawing shall be used in accordance with the project description. The contractor shall be responsible for verifying the accuracy of all dimensions, quantities, and materials. The architect shall not be responsible for any errors or omissions in the drawing or for any damage to property or persons. The architect shall not be responsible for any construction or for any other matters not specifically mentioned in the contract documents.

alternative energy & environmental engineering
MECHANICAL ENGINEERS
838 EAST FRONT ST. VENTURA, CA 93001
(805) 653-1722 FAX - (805) 653-7260

**VENTURA COLLEGE
LEARNING RESOURCES CENTER**

Ventura County Community College District
4667 Telegraph Road
Ventura, CA 93003

ENGINEER'S STAMP ARCHITECT'S STAMP

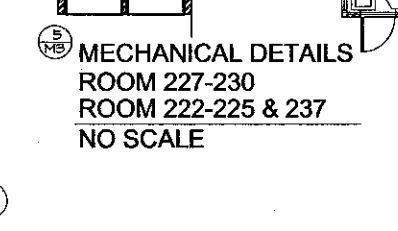
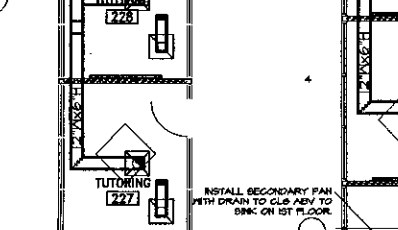
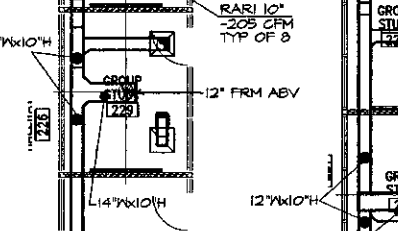
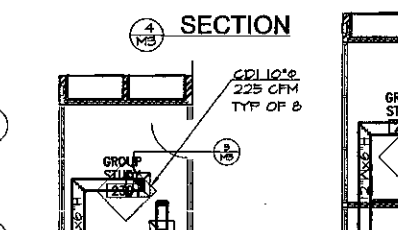
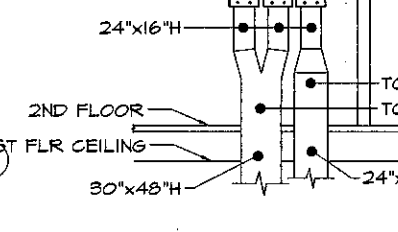
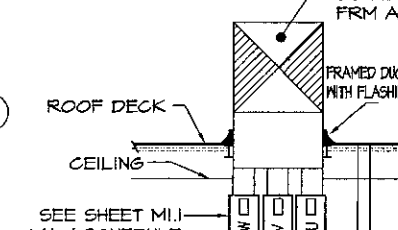
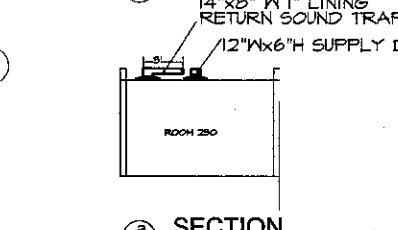
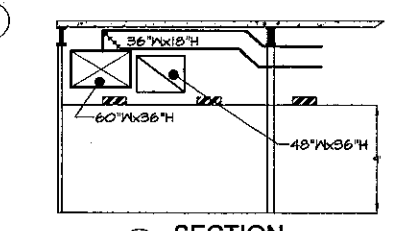
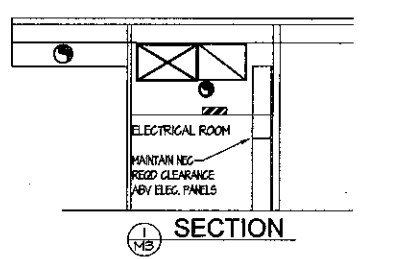
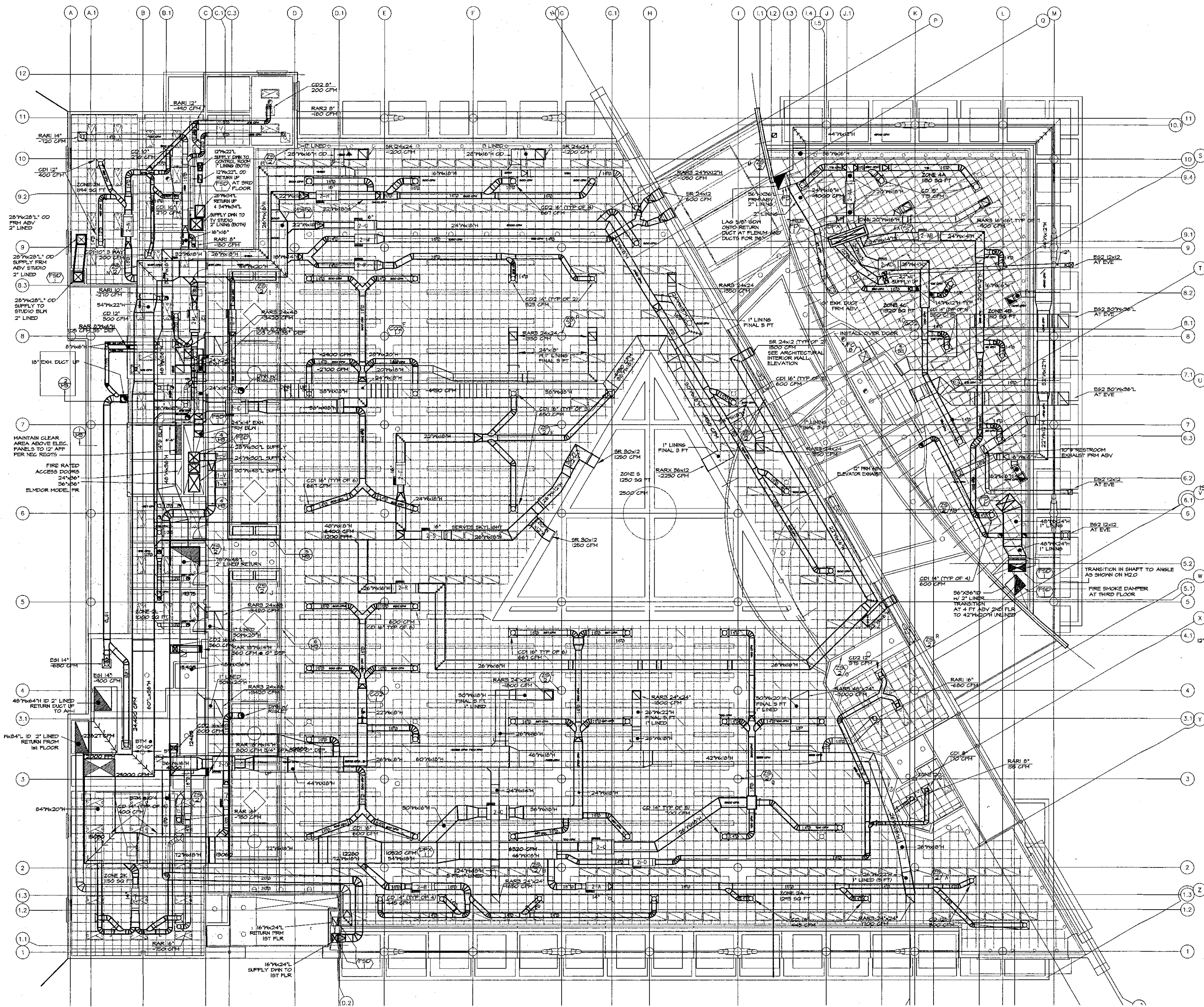
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
FILE NUMBER: 56-C-
APPL 03 - 104498
AC X FLS. P.P. SS 1/1/07
DATE

NO.	DESCRIPTION	DATE	BY

DRAWN: HAND/UFMAR
CHECKED: PW/HAM
DATE: SEPT. 24, 2001
JOB NO.: 9318

SHEET TITLE
**FIRST FLOOR HHW PIPING PLAN
VENTURA COMMUNITY COLLEGE
LEARNING RESOURCES CENTER**

SHEET
M2.1



MECHANICAL DETAILS
ROOM 227-230
ROOM 222-225 & 237
NO SCALE

SECOND FLOOR
MECHANICAL PLAN
NO SCALE

K&BZ
KRUGER BENSEN ZIEMER ARCHITECTS, INC. AIA
30 W. AVENUE 100 SANTA BARBARA, CA 93101
805/963-1729

STEVE DOWTY, A.I.A.
PRINCIPAL IN CHARGE

THIERRY H. CASSAN
PROJECT DESIGNER

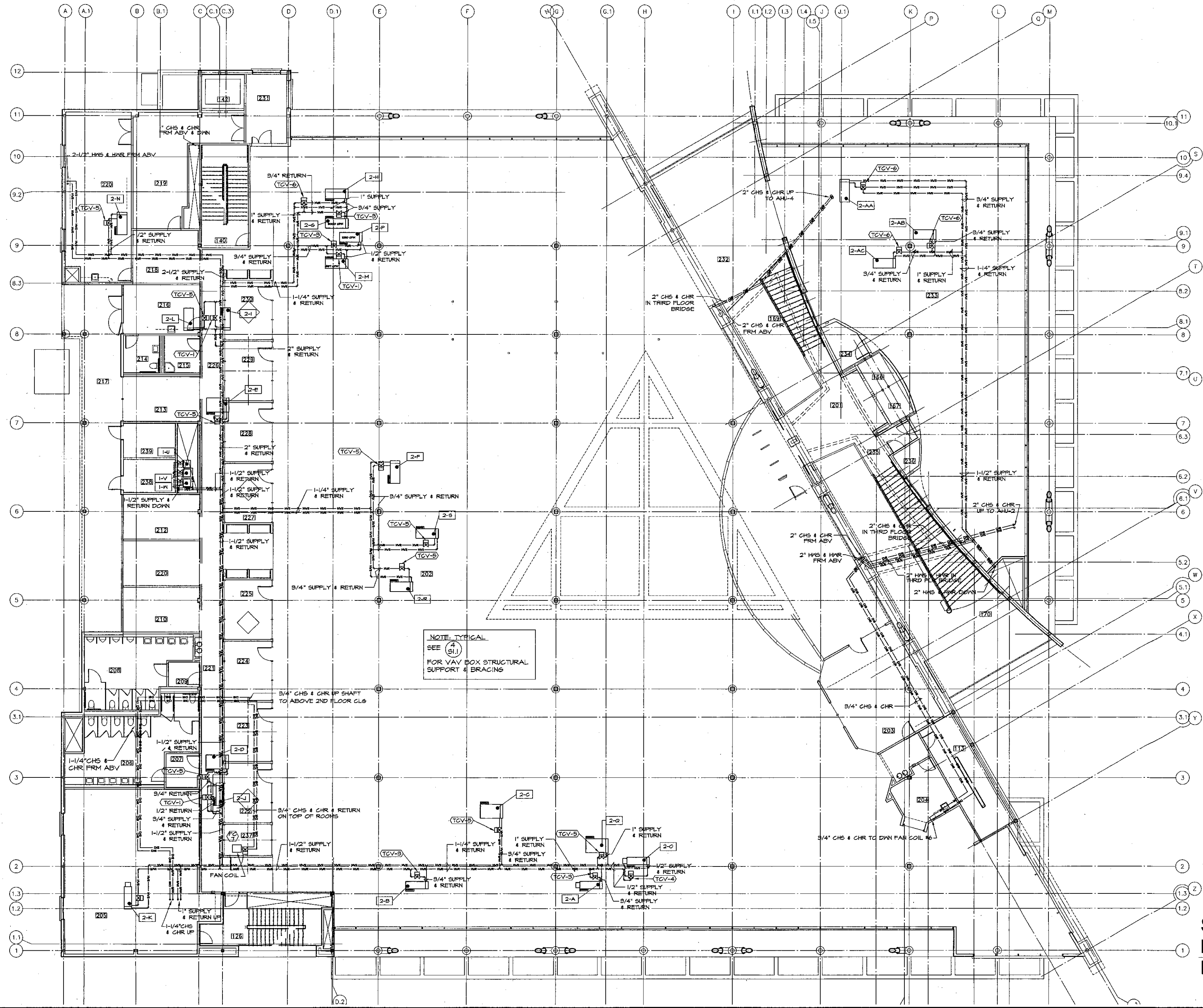
Alternative energy & environmental engineering
MECHANICAL ENGINEERS
838 EAST FRONT ST. VENTURA, CA 93001
(805) 663-1722 FAX - (805) 663-7260

VENTURA COLLEGE LEARNING RESOURCES CENTER
Ventura County Community College District
4667 Telegraph Road
Ventura, CA 93003

ENGINEER'S STAMP
ARCHITECT'S STAMP
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
FILE NUMBER: 66-C1
APP. 03 - 104498
DATE: 11/10/01

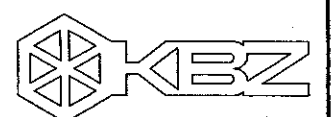
NO.	DESCRIPTION	DATE	BY

DRAWN: HAM/DUF/MAR
CHECKED: PWH/HAM
DATE: SEPT. 24, 2001
JOB NO.: 9318
SHEET TITLE: SECOND FLOOR MECHANICAL PLAN VENTURA COMMUNITY COLLEGE LEARNING RESOURCES CENTER
SHEET: M3.0



NOTE: TYPICAL
SEE (S1.1)
FOR VAV BOX STRUCTURAL
SUPPORT & BRACING

SECOND FLOOR
HYDRONIC PLAN
NO SCALE



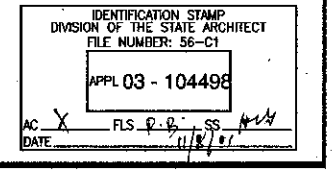
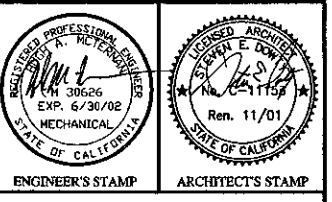
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ARCHITECTS, INC. AIA
30 W. ARRELLANA SANTA BARBARA, CA
93101/9311725

STEVE DOWDY, A.I.A.
PRINCIPAL IN CHARGE

THIERRY H. CASSAN
PROJECT DESIGNER

alternative
energy &
environmental
engineering
MECHANICAL ENGINEERS
838 EAST FRONT ST. VENTURA, CA 93001
(805) 653-1722 FAX - (805) 653-7260

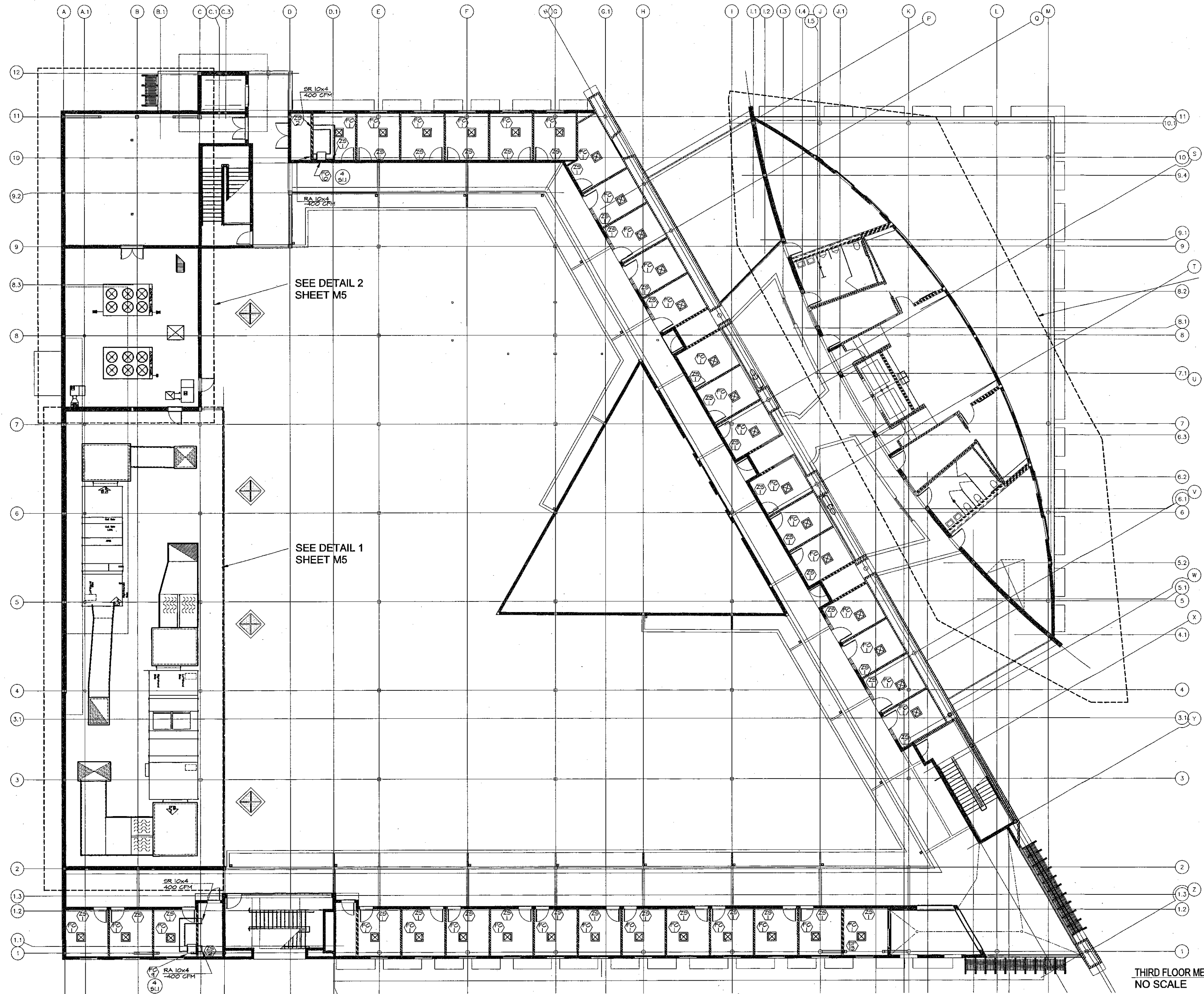
VENTURA COLLEGE
LEARNING RESOURCES CENTER
Ventura County Community College District
4667 Telegraph Road
Ventura, CA 93003



NO.	DESCRIPTION	DATE	BY

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CHECKED: PWH/HAM
DATE: SEPT 24, 2001
JOB NO.: 9318
SHEET TITLE:
SECOND FLOOR HYDRONIC PLAN
VENTURA COMMUNITY COLLEGE
LEARNING RESOURCES CENTER

SHEET
M3.1



THIRD FLOOR MECHANICAL PLAN
NO SCALE

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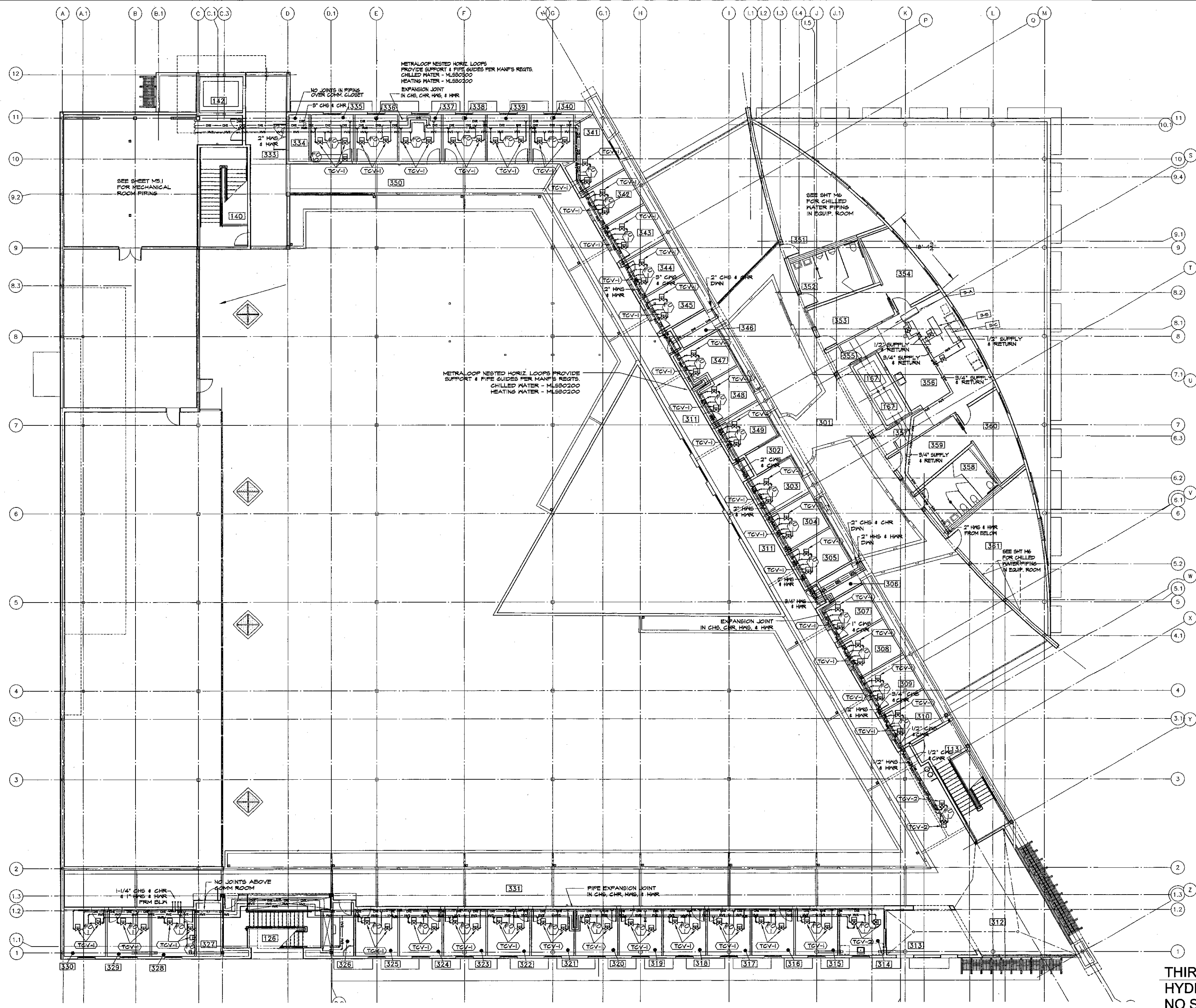
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 DIVISION OF THE STATE ARCHITECT
 FILE NUMBER: 55-C1
 APR 03 - 104498
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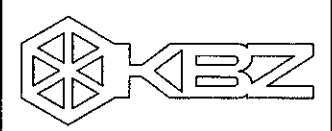
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 DATE: SEPT. 24, 2001
 JOB NO.: 9318

SHEET TITLE:
 THIRD FLOOR MECHANICAL PLAN
 VENTURA COMMUNITY COLLEGE
 LEARNING RESOURCES CENTER

SHEET:
M4.0



THIRD FLOOR
HYDRONIC PLAN
NO SCALE



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805/963-1722 SANTA BARBARA, CA 93101

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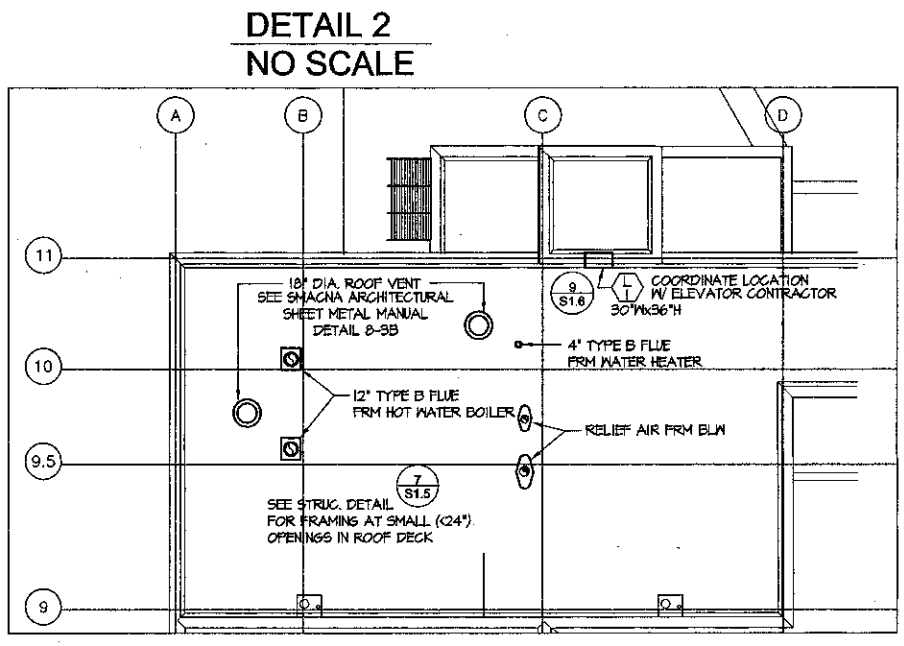
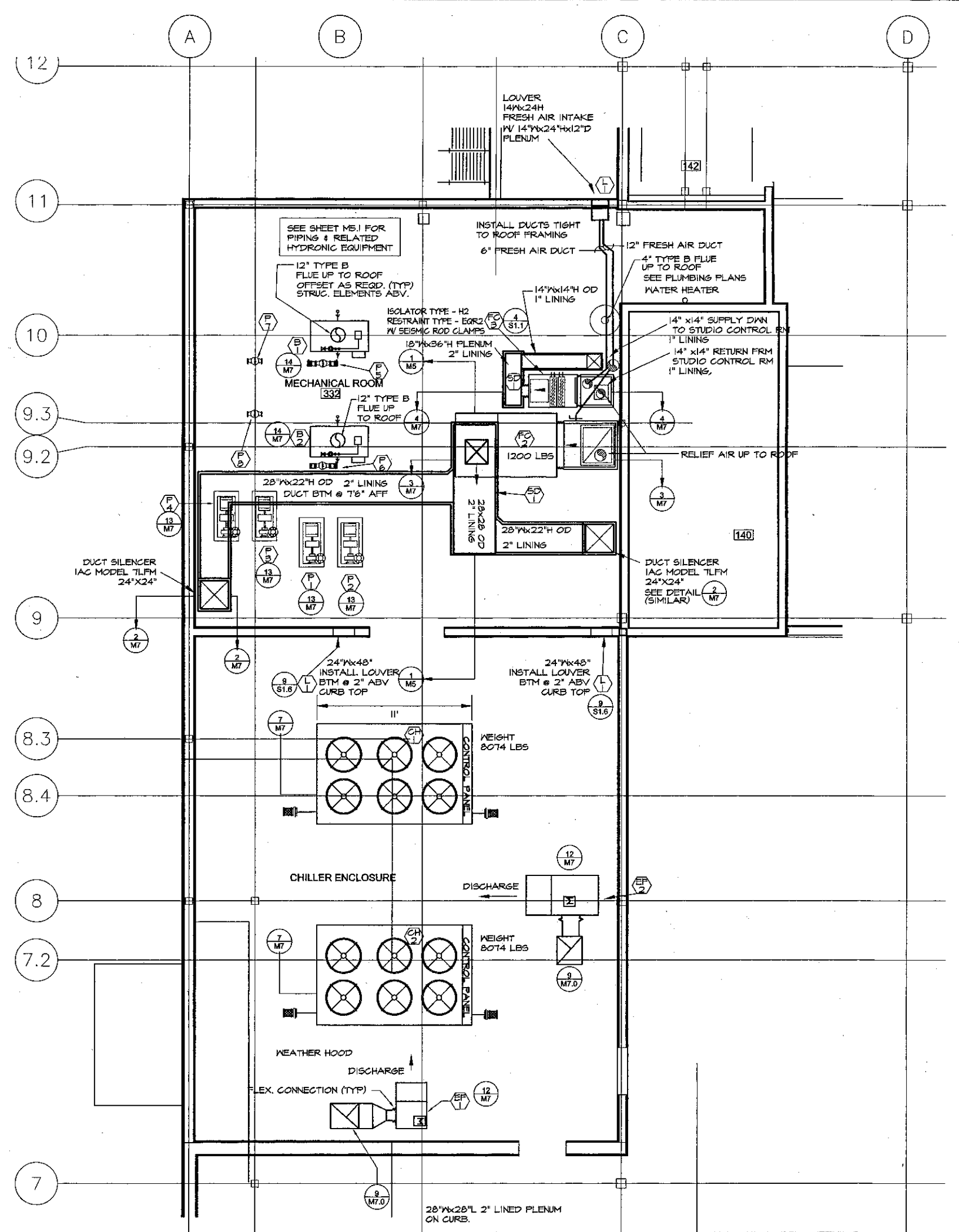
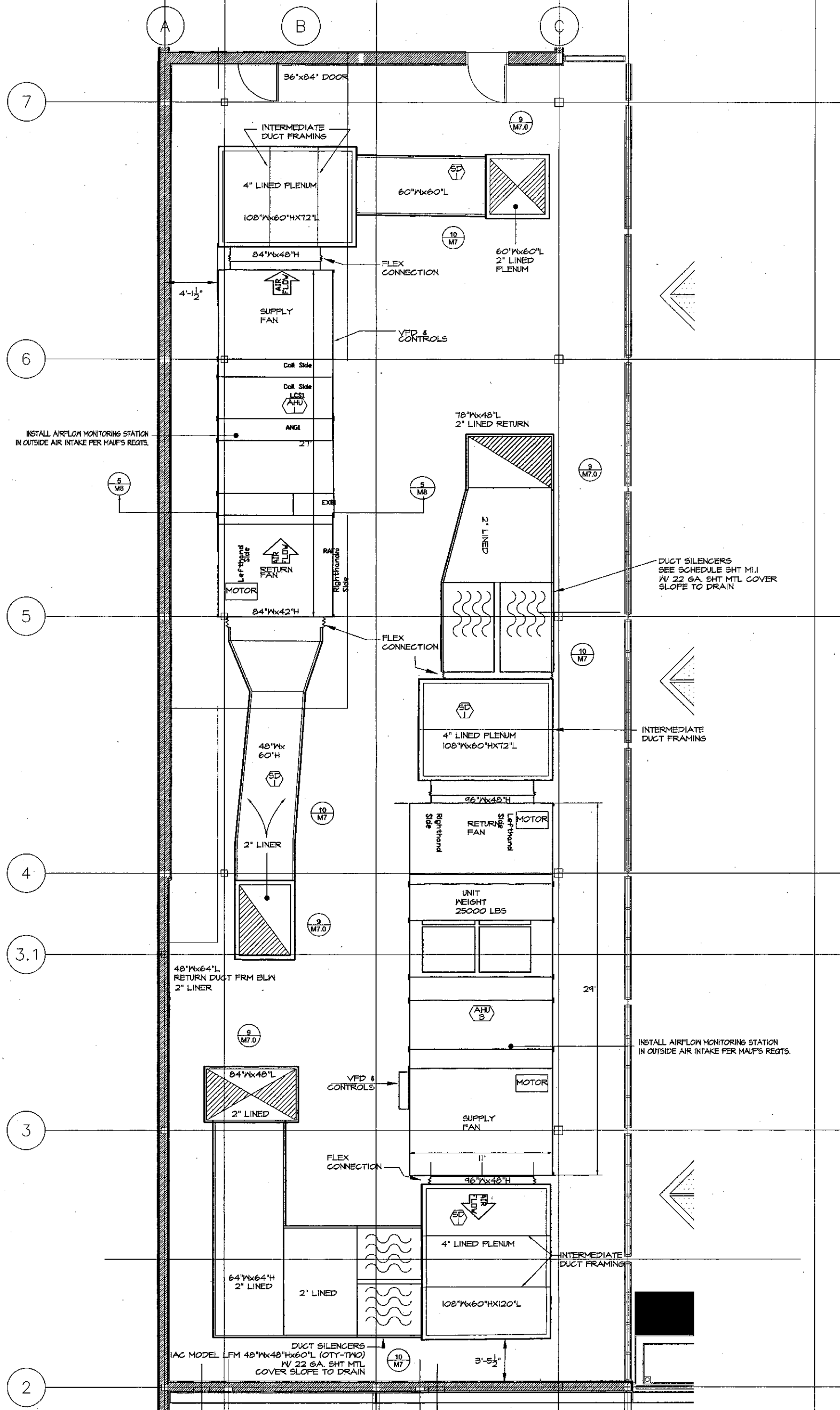
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FILE NUMBER: 56-C1
APPL 03 - 104498
DATE: 9/24/01

NO.	DESCRIPTION	DATE	BY

DRAWN: HAM/DU/FMAR
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DATE: SEPT. 24, 2001
JOB NO.: 9318
SHEET TITLE:
THIRD FLOOR HYDRONIC PLAN
VENTURA COMMUNITY COLLEGE
LEARNING RESOURCES CENTER
SHEET: M4.1



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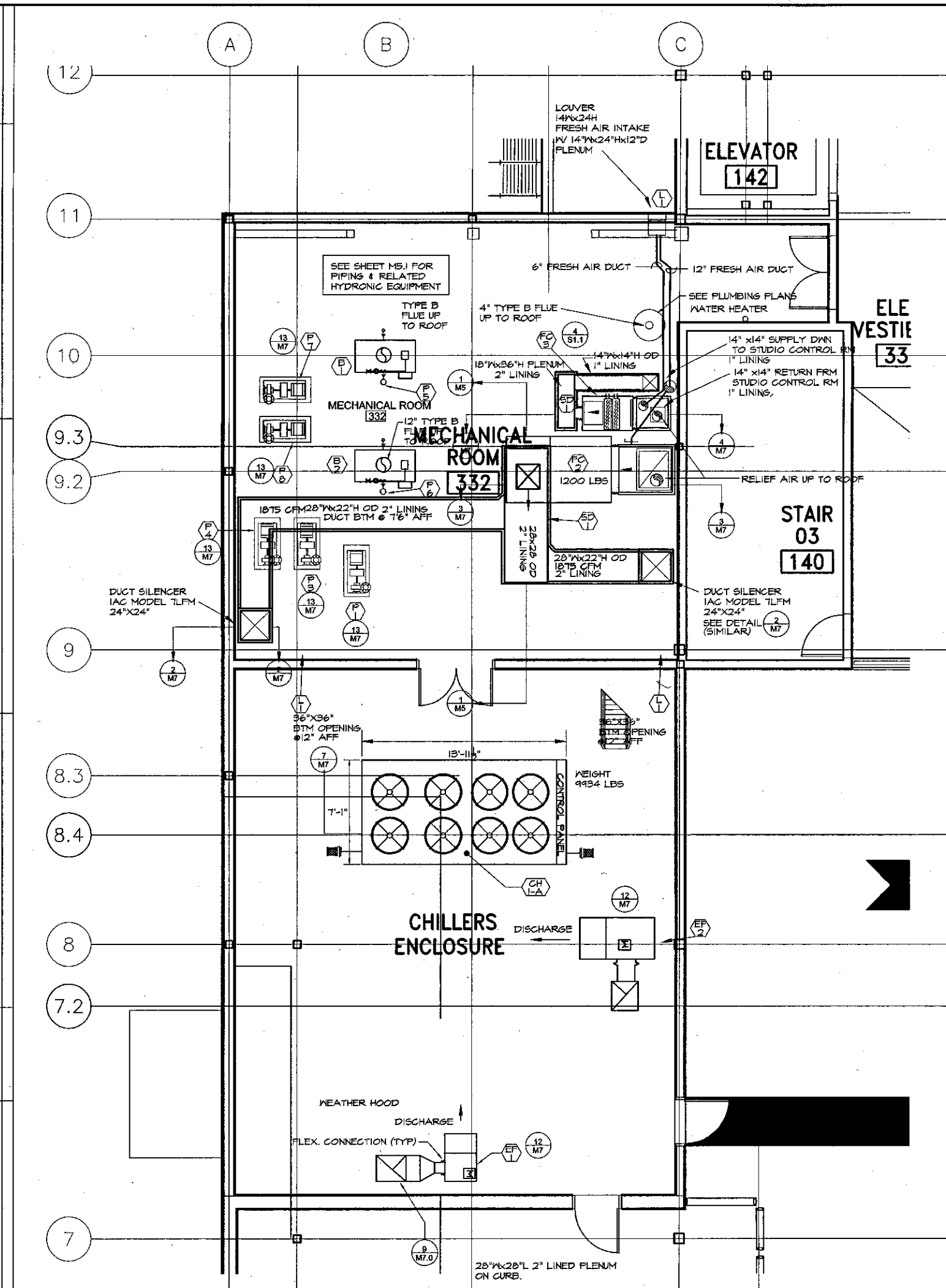
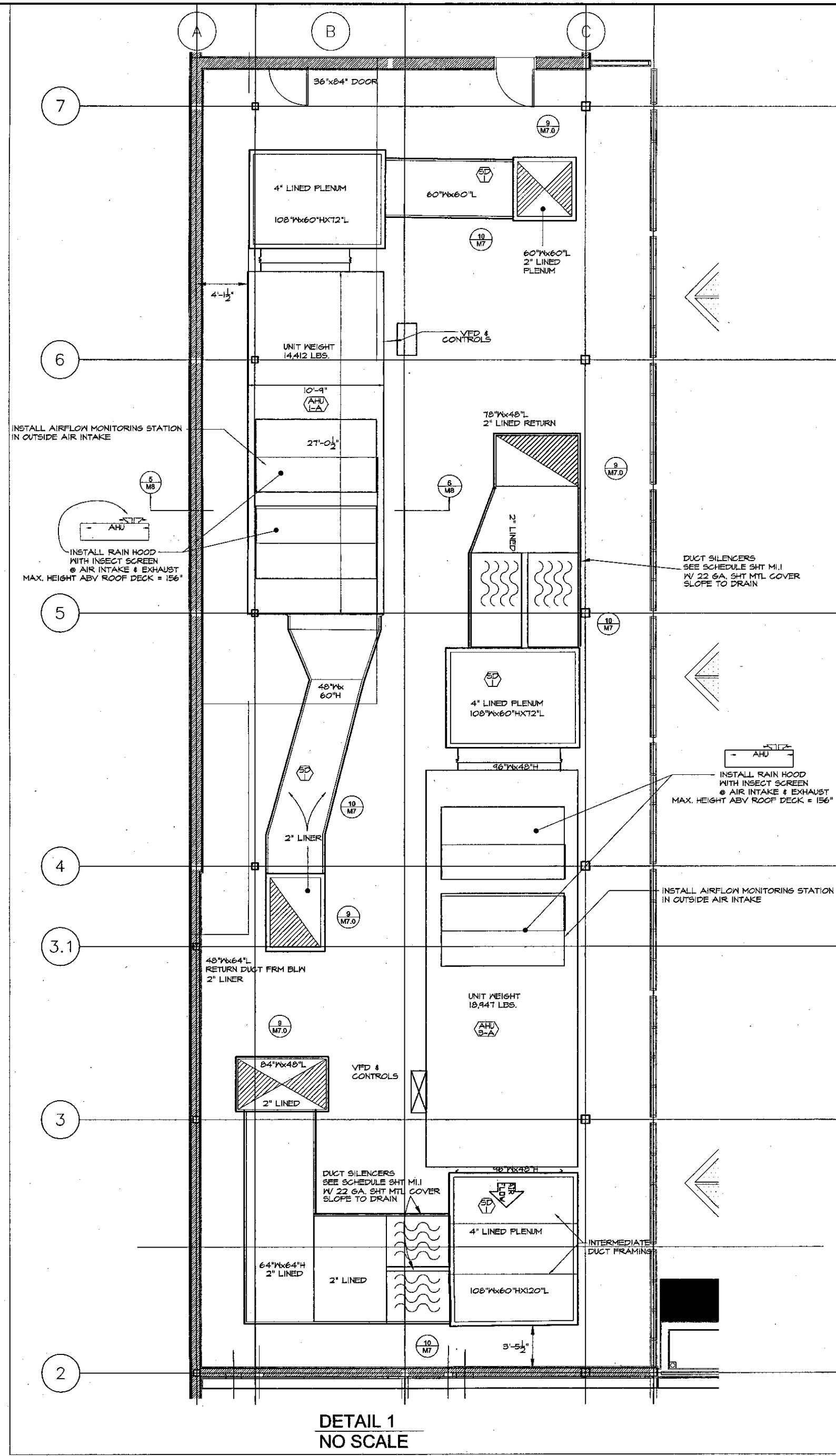
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 FILE NUMBER: 03-01
 APR. 03 - 104498
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NO.	DESCRIPTION	DATE	BY

DRAWN: HAM/DUF/MAR
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 DATE: SEPT. 24, 2001
 JOB NO.: 9318
 SHEET TITLE: MECHANICAL DETAILS VENTURA COMMUNITY COLLEGE LEARNING RESOURCES CENTER
 SHEET: M5.0



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PRINCIPAL IN CHARGE

THERRY H. CASSAN
PROJECT DESIGNER

All items, design arrangements and plans included or not included in the Contract Documents shall be subject to the terms, conditions and specifications of the Contract Documents. The architect's responsibility is limited to the design and construction of the building and its mechanical systems. The architect is not responsible for the design or construction of any other building systems or equipment. The architect's liability is limited to the contract amount of the architect's fee.

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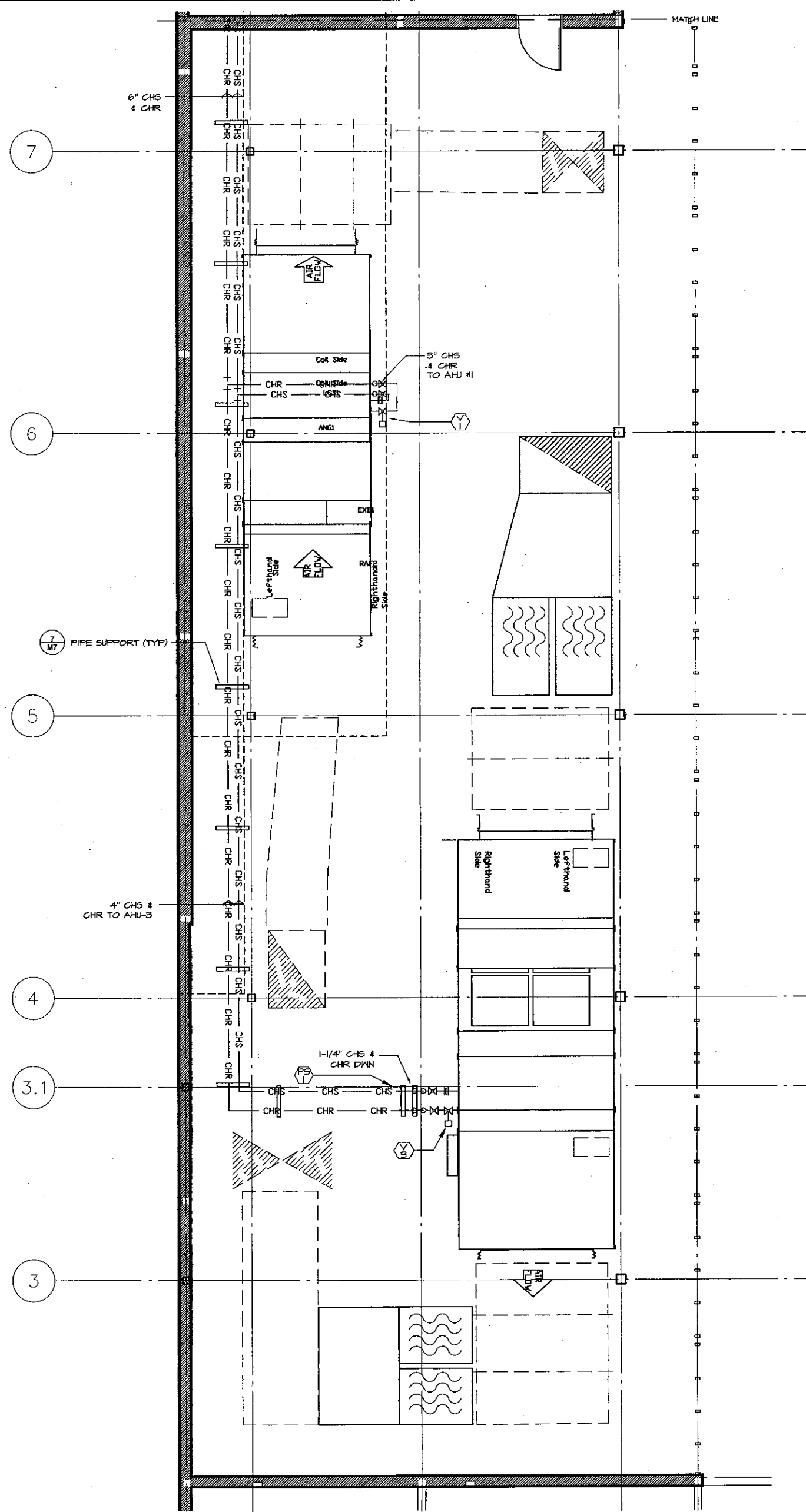
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No. C-11653
Ren. 11/01

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FILE NUMBER: 56-C1
APPL 03 - 104498
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DATE 11/21/01

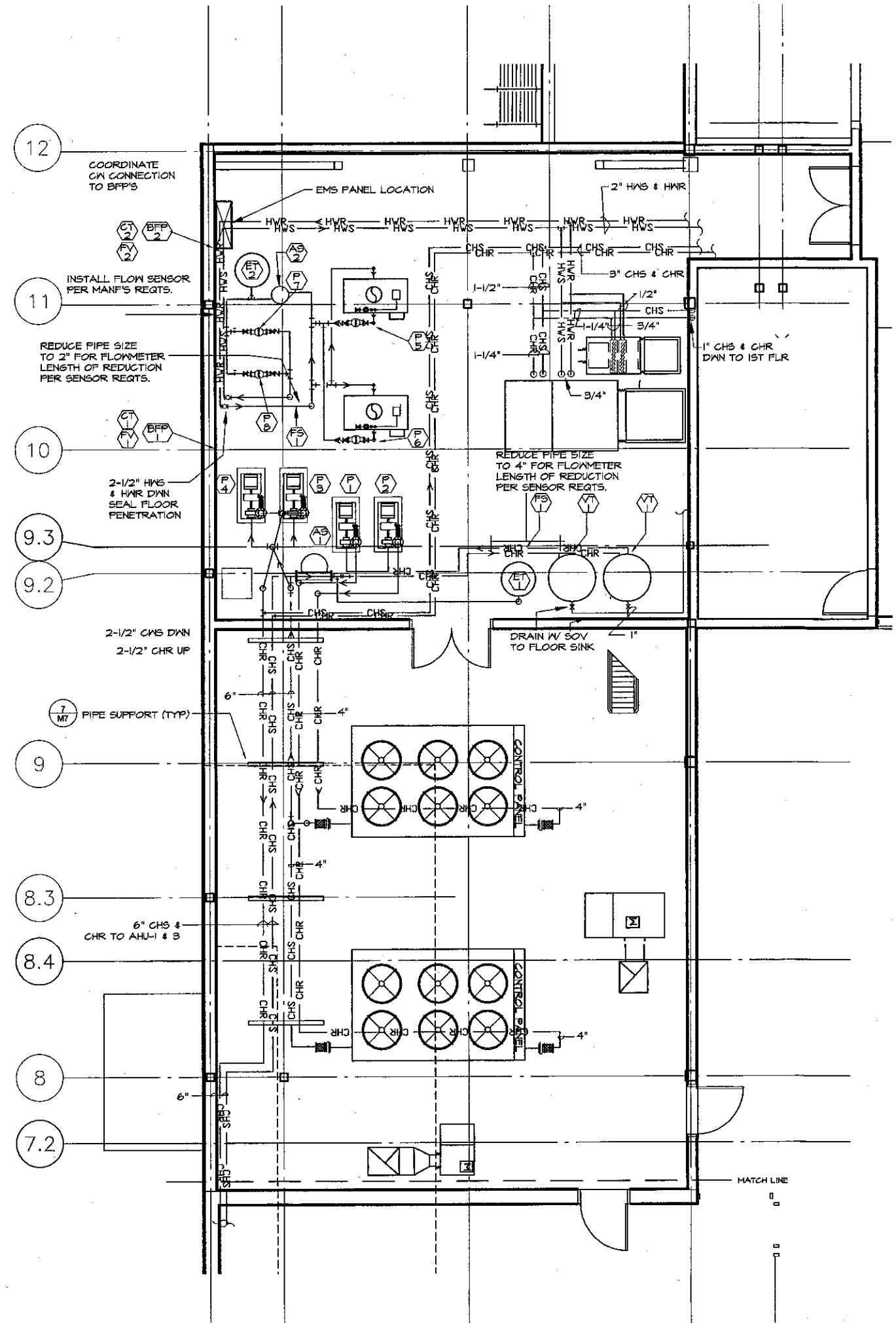
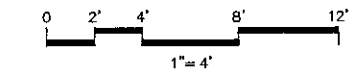
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DATE: SEPT. 24, 2001
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MECHANICAL DETAILS
VENTURA COMMUNITY COLLEGE
LEARNING RESOURCES CENTER
DEDUCTIVE ALTERNATE

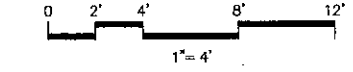
SHEET
M5.0 - A



HYDRONIC PIPING DETAIL - AIR HANDLING UNITS



HYDRONIC PIPING DETAIL - BOILERS & CHILLERS



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 FILE NUMBER: 55-C1
 APR 03 - 104496
 DATE: 11/11/01

NO.	DESCRIPTION	DATE	BY

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 CHECKED: PWH/HAM
 DATE: SEPT. 24, 2001
 JOB NO.: 9318
 SHEET TITLE: MECHANICAL DETAILS - HYDRONIC VENTURA COMMUNITY COLLEGE LEARNING RESOURCES CENTER
 SHEET: M5.1



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ARCHITECTS, INC. AIA
30 W. ARRELLA CA SANTA BARBARA, CA
805/963-1722 805/963-1722

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PRINCIPAL IN CHARGE

THIERRY H. CASSAN
PROJECT DESIGNER

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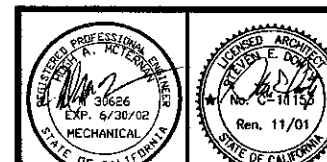
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Ventura, CA 93003

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ENGINEER'S STAMP ARCHITECT'S STAMP

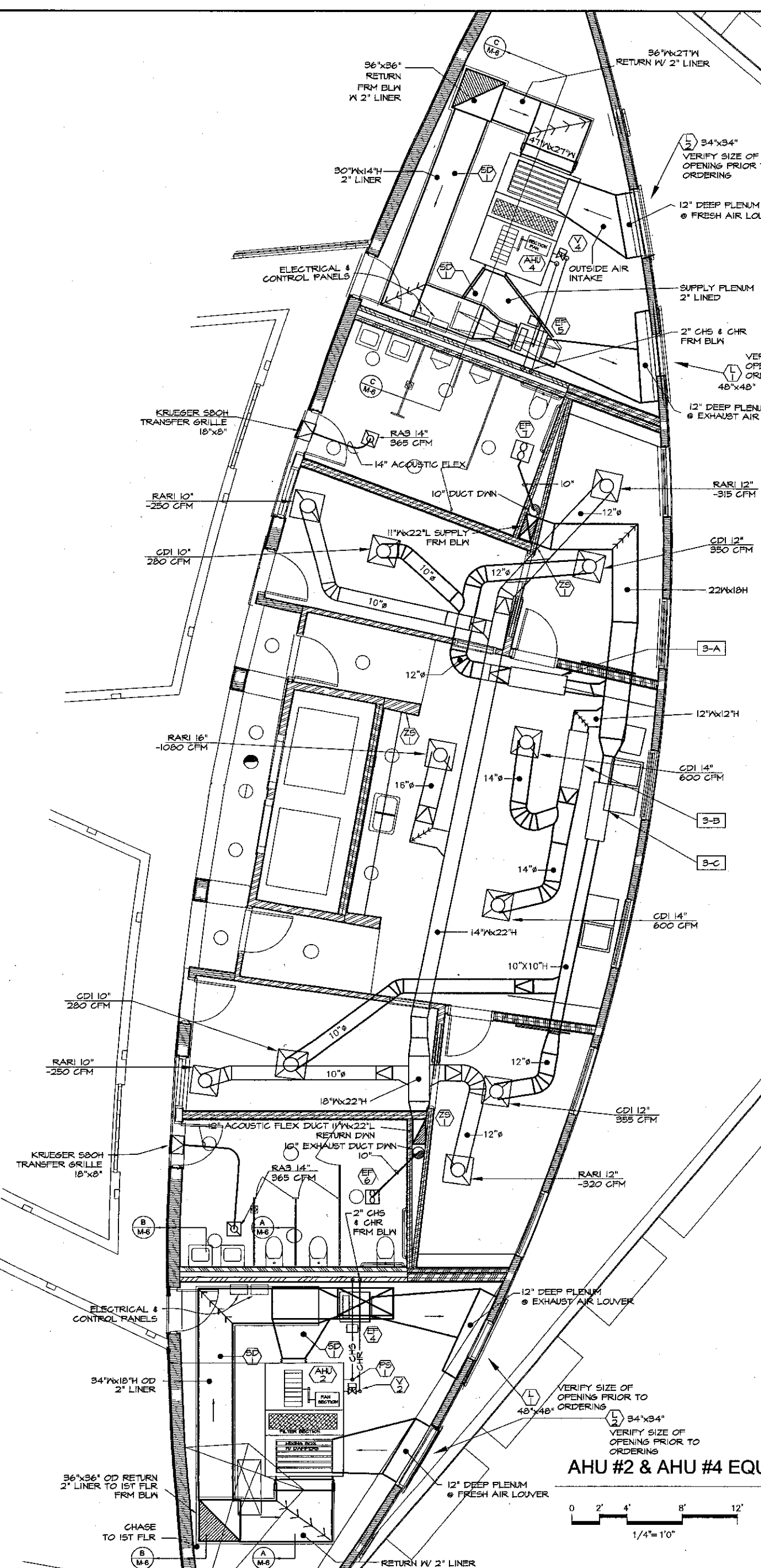
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FILE NUMBER: 58-C1
APPL 03 - 104498
DATE: 11/21/01

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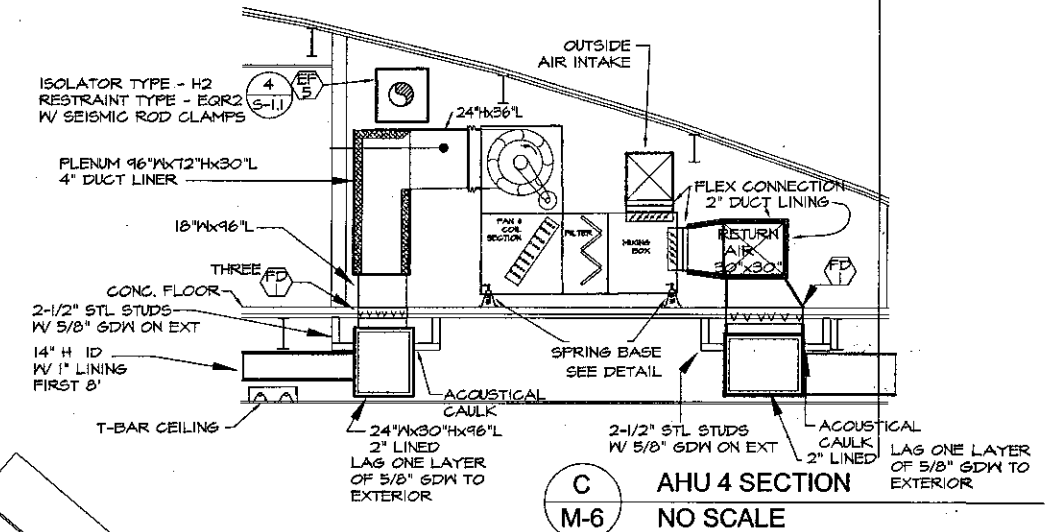
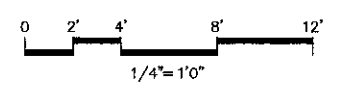
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DATE: SEPT. 24, 2001
JOB NO.: 9318

MECHANICAL DETAILS
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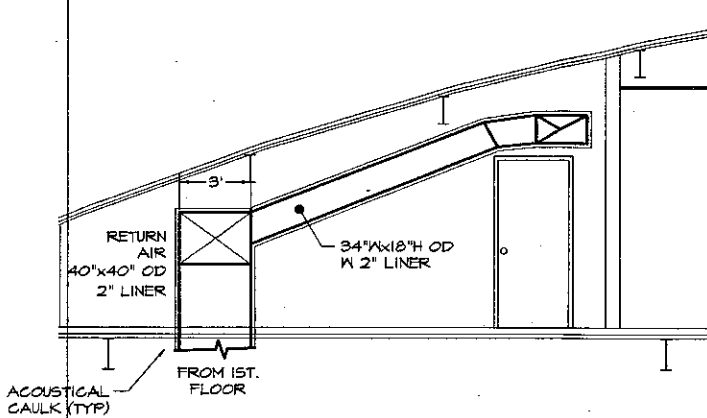
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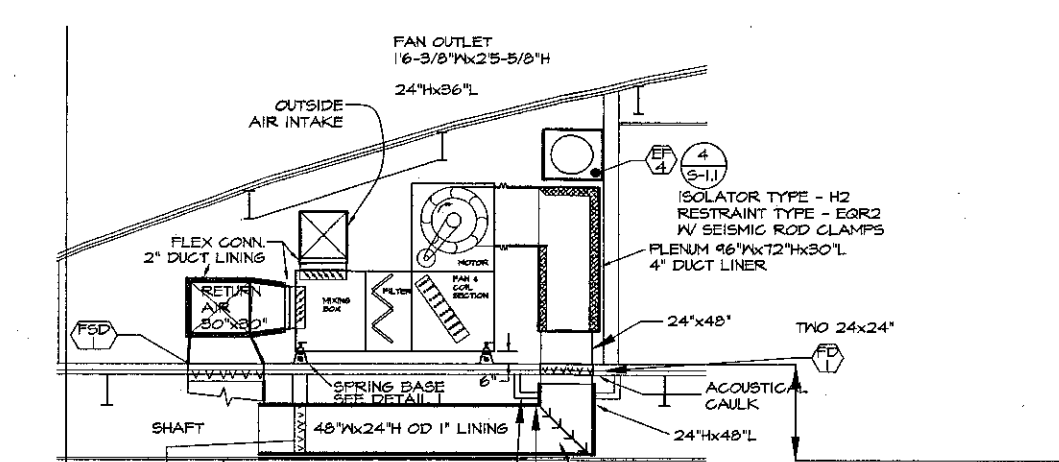
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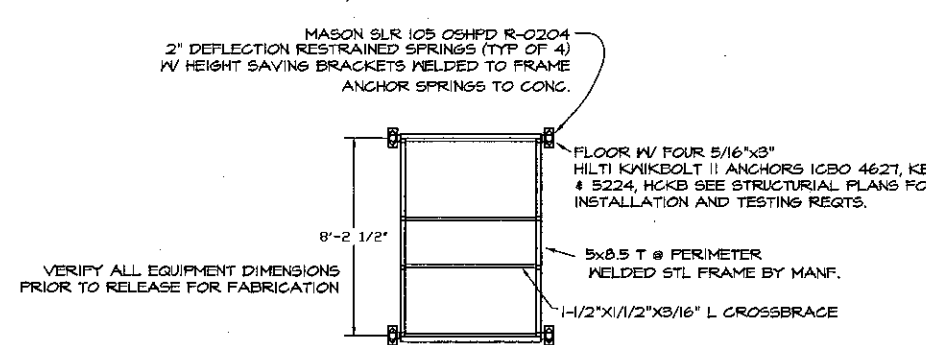
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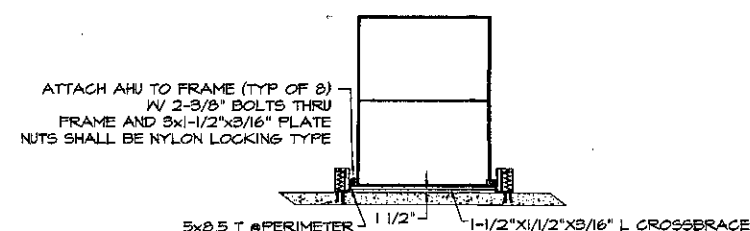
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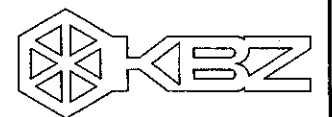
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DETAIL 1
AHU SPRING ISOLATION BASE PLAN
NO SCALE



AHU SPRING ISOLATION BASE SECTION
NO SCALE



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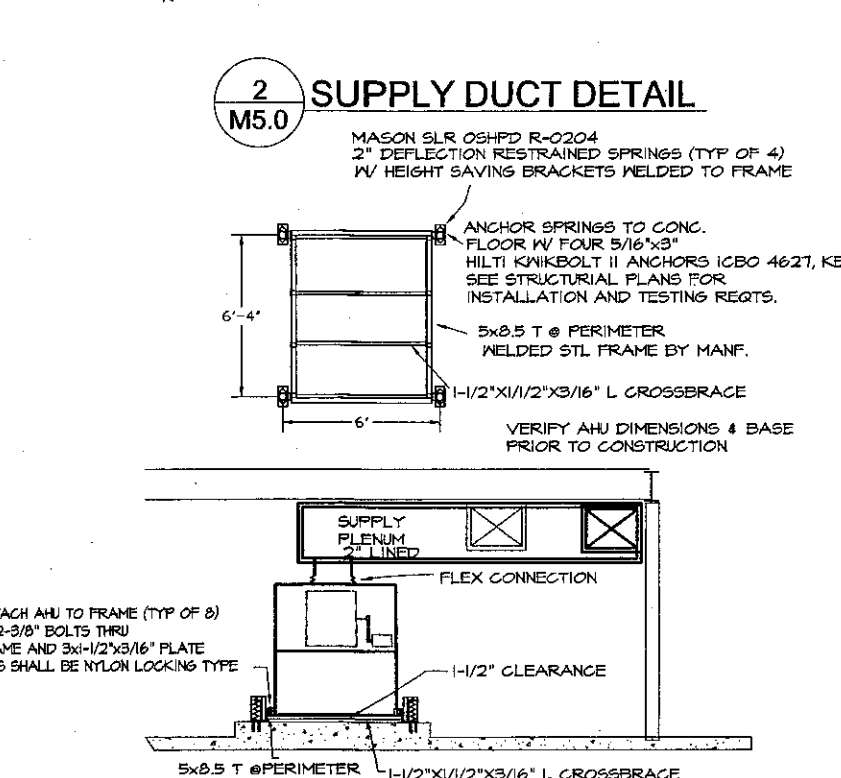
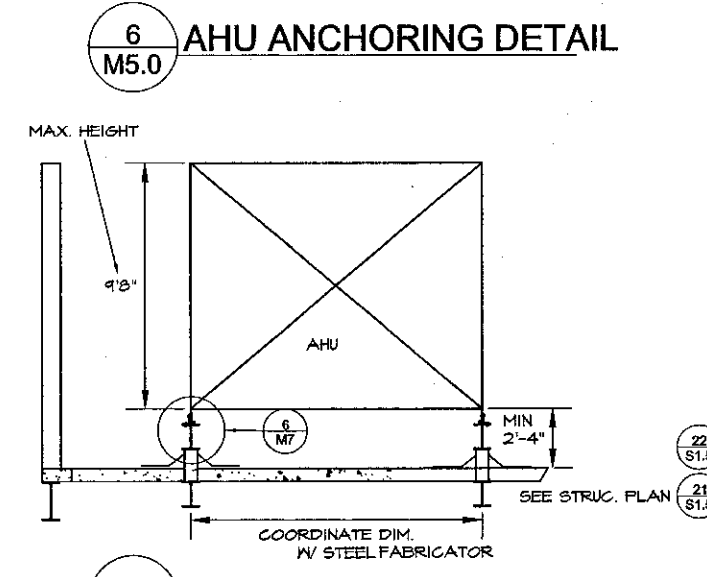
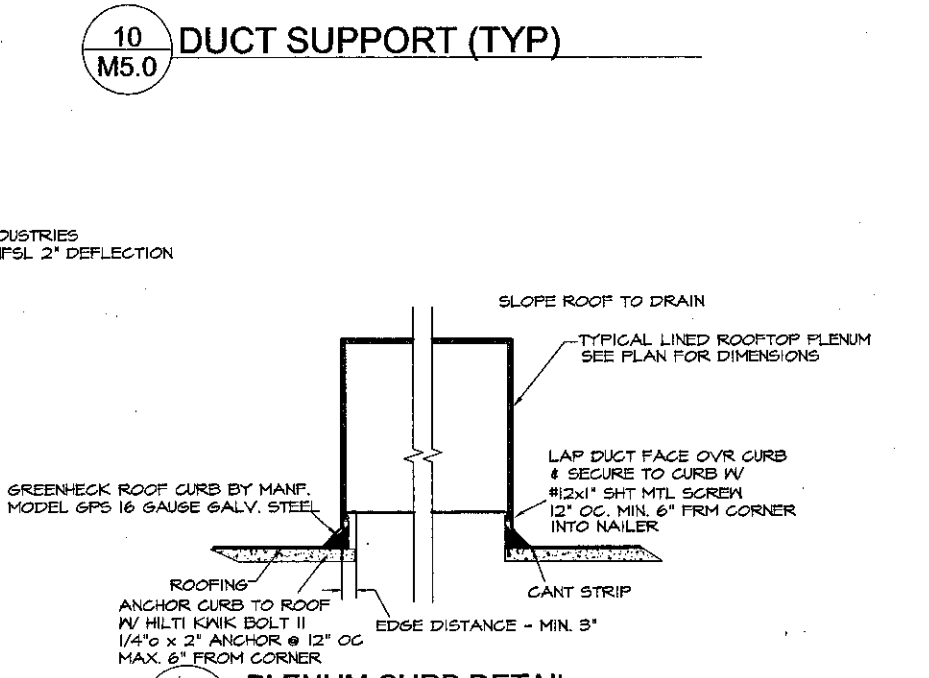
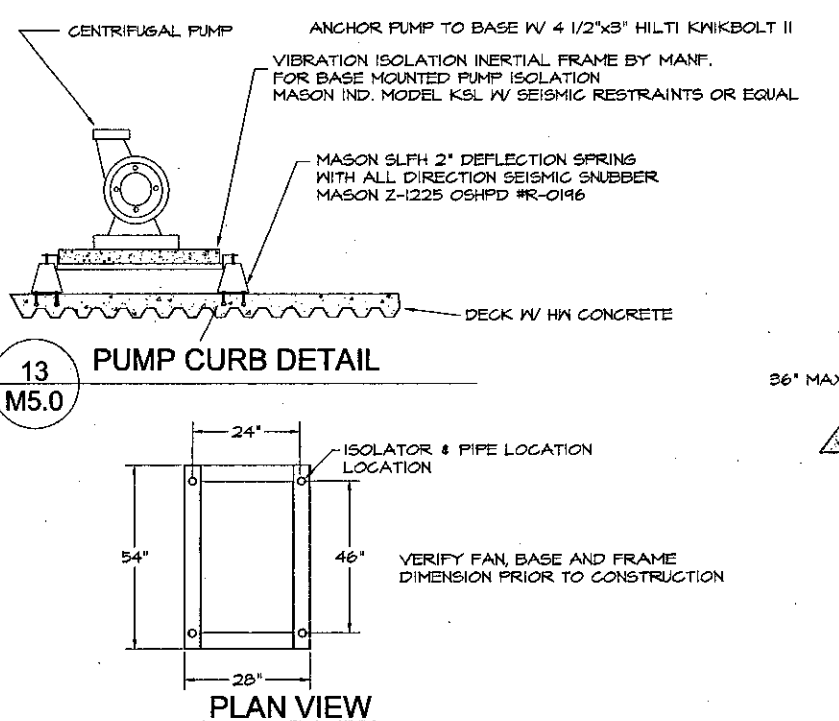
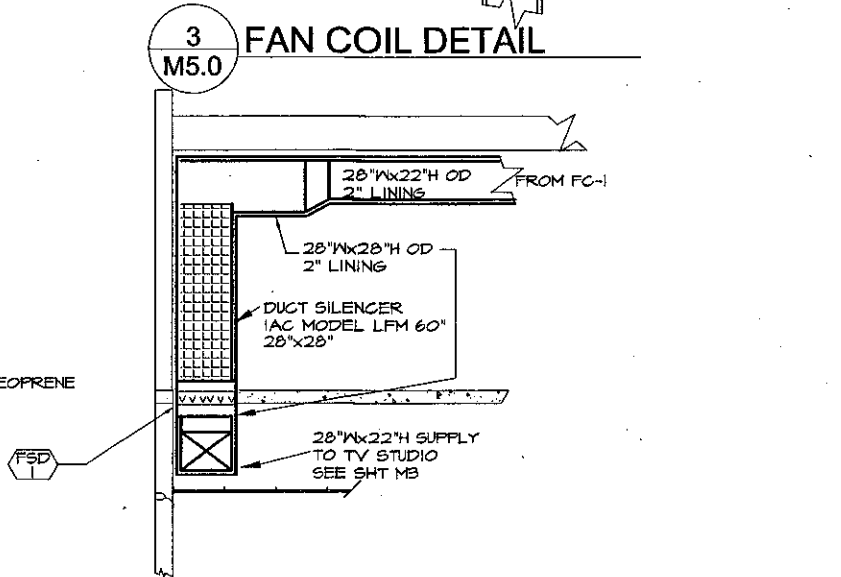
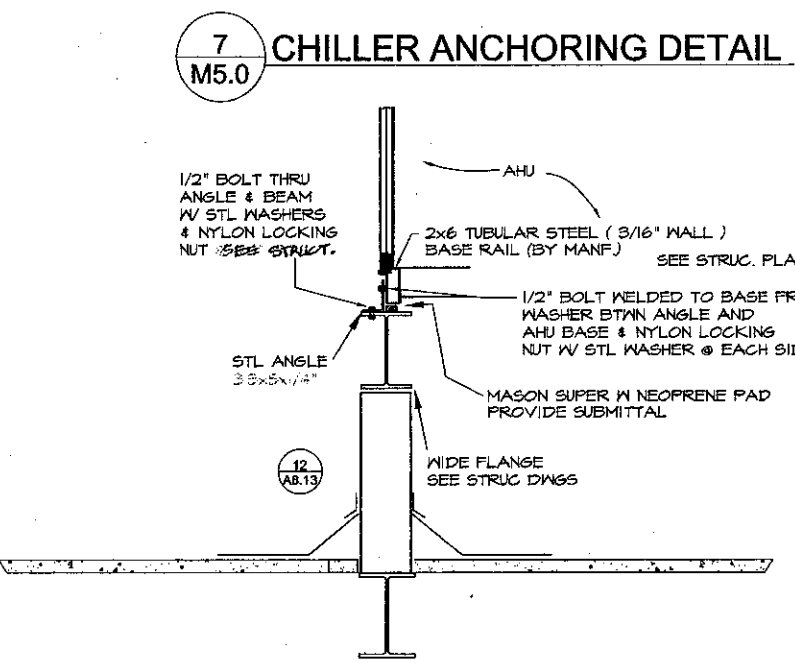
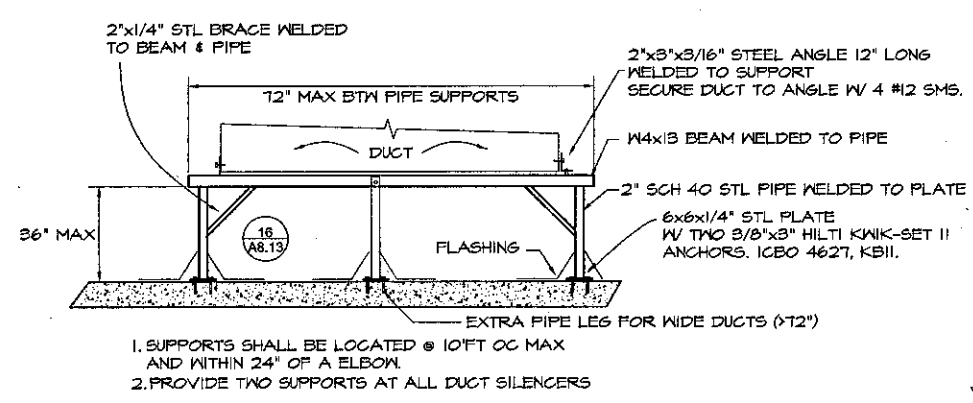
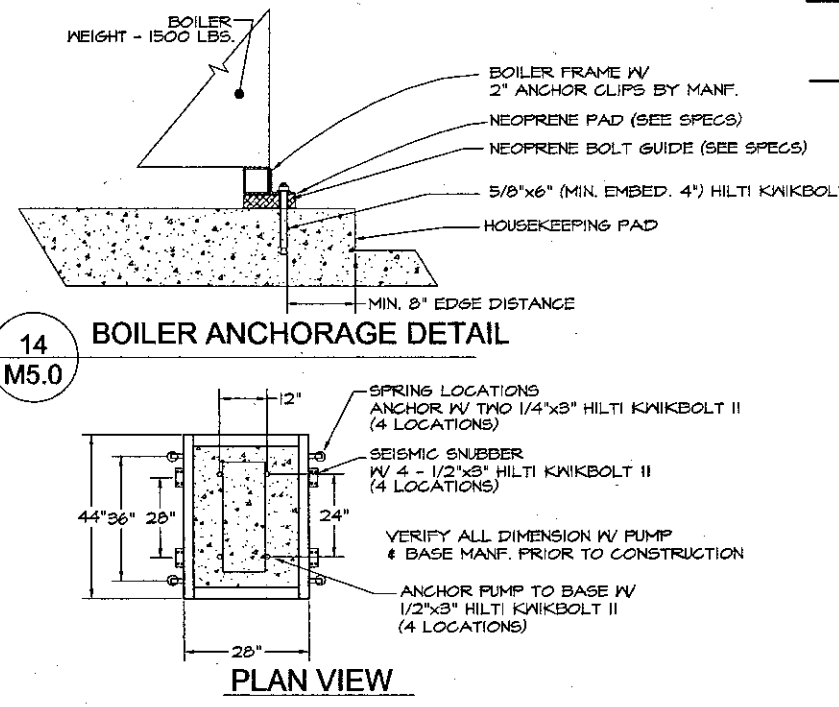
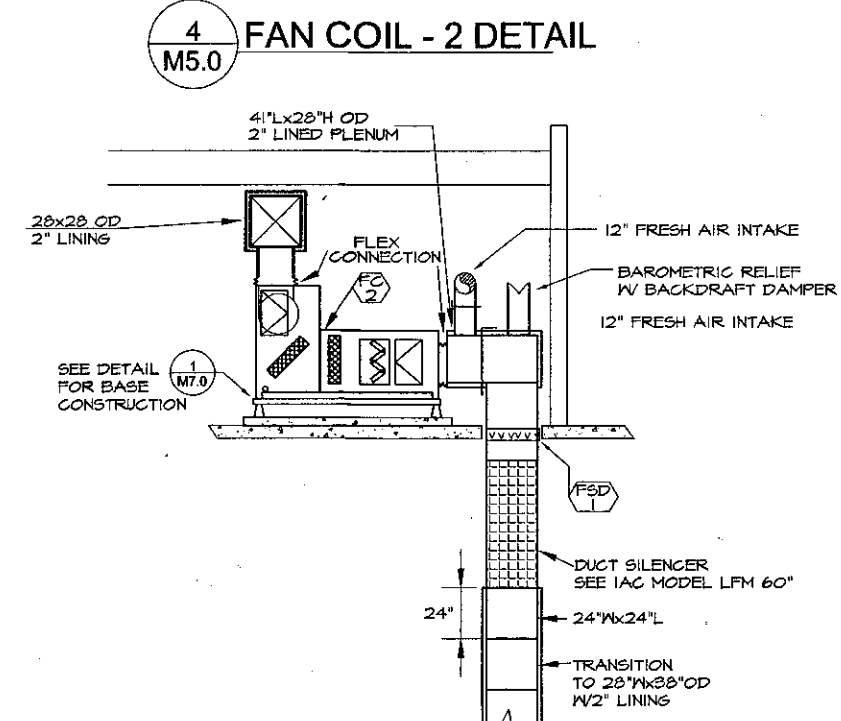
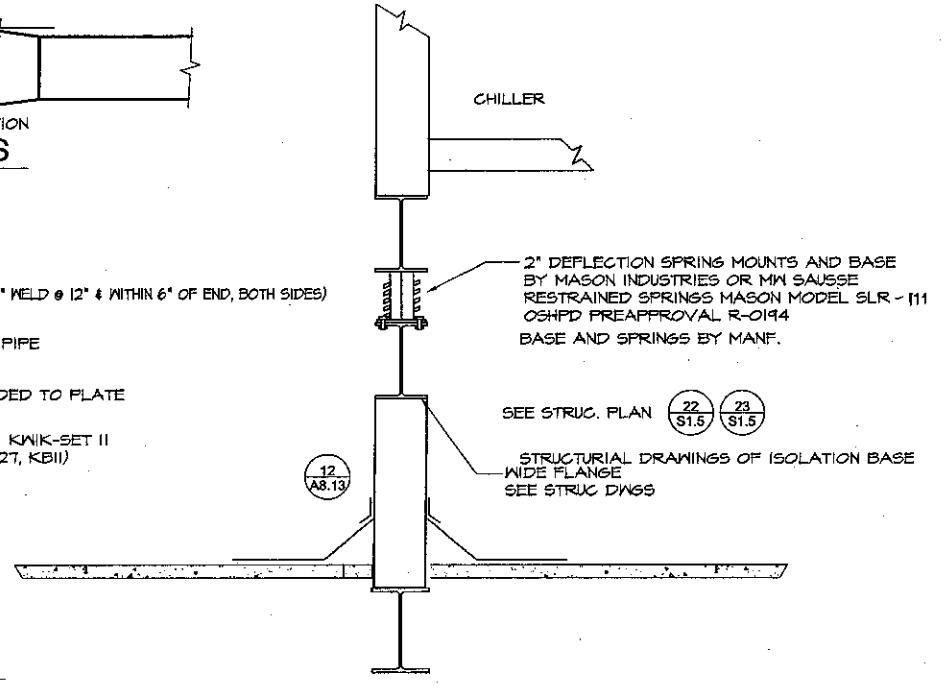
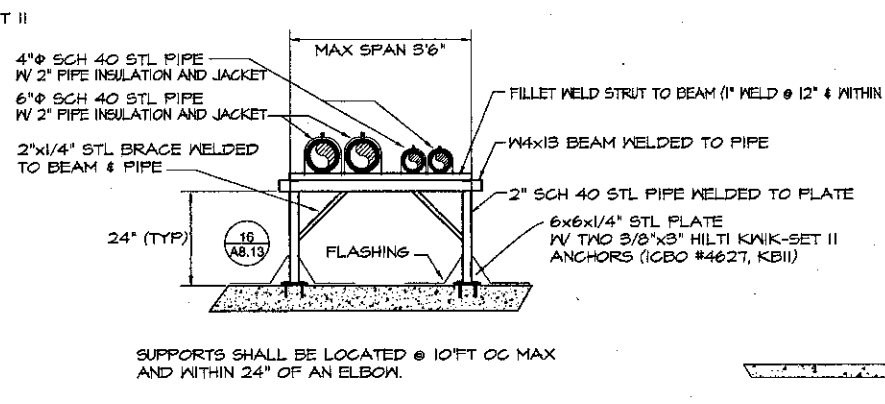
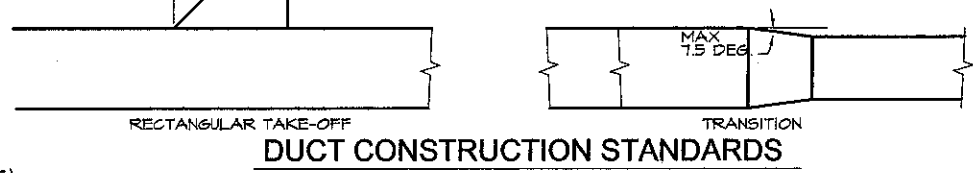
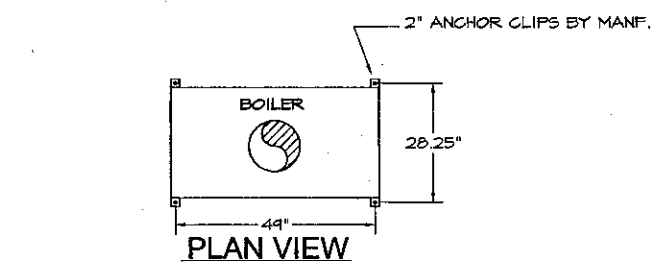
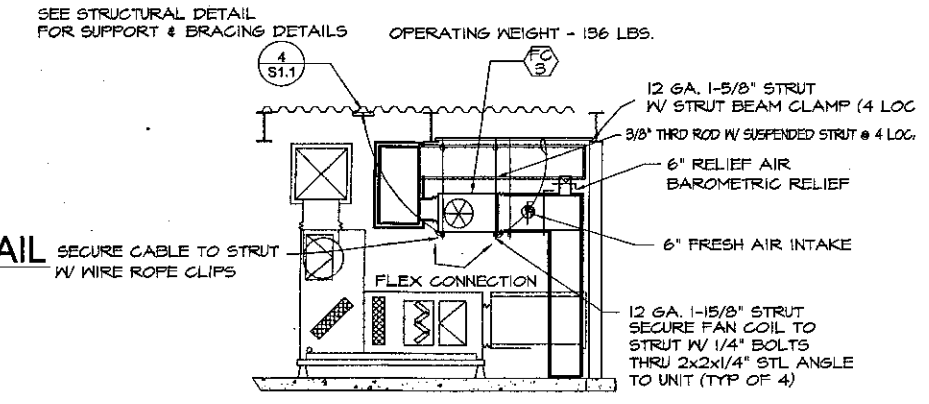
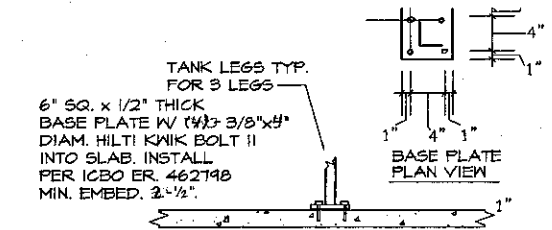
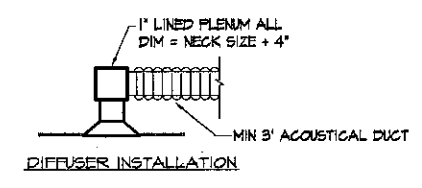
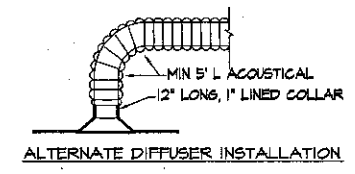
STEVE DOWTY, A.I.A.
PRINCIPAL IN CHARGE

THERRY H. CASSAN
PROJECT DESIGNER

alternative energy & environmental engineering
MECHANICAL ENGINEERS
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(805) 653-1722 FAX: (805) 653-7280

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Ventura County Community College District
Ventura, CA 93003
4667 Telegraph Road

NOTES
1. PAINT ALL EXPOSED STEEL PER SPECIFICATIONS. STEEL SHALL BE PAINTED BEFORE EQUIPMENT, DUCTS, & PIPES ARE INSTALLED TO ENSURE 100% PAINT COVERAGE.
2. ALL ANCHORS SHALL BE INSTALLED PER LISTING AND TESTED PER STRUCTURAL SPECIFICATIONS.
3. ALL WELDING AND INSPECTION SHALL BE PERFORMED IN CONFORMANCE WITH DSA REQUIREMENTS AND STRUCTURAL SPECIFICATIONS.



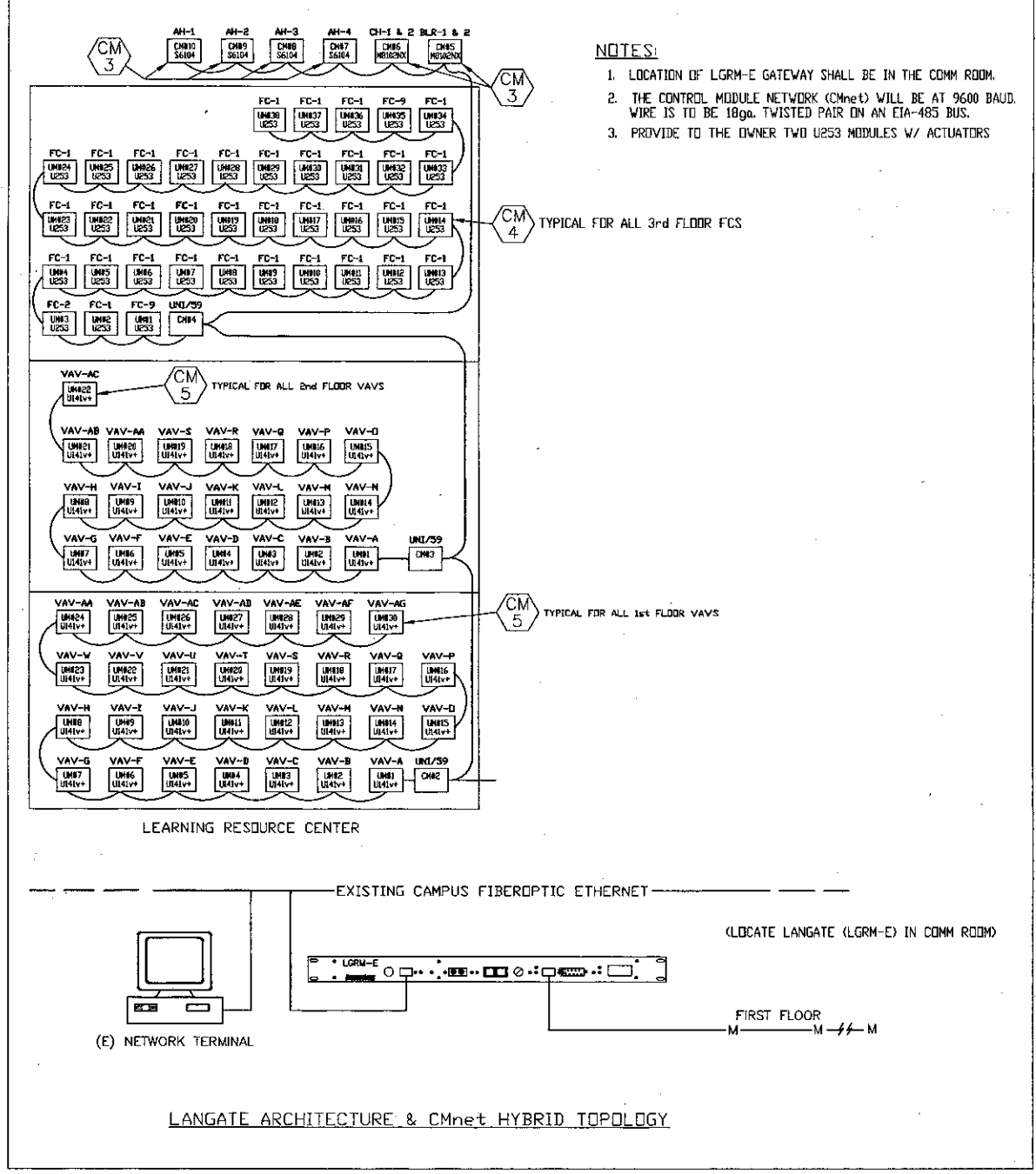
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FILE NUMBER: 56-C1
APPL 03 - 104498
DATE: 11/1/01

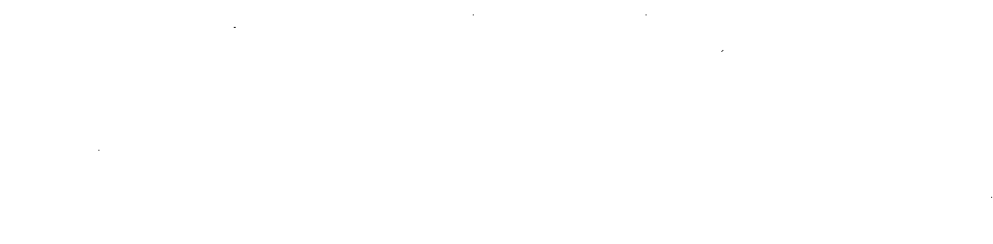
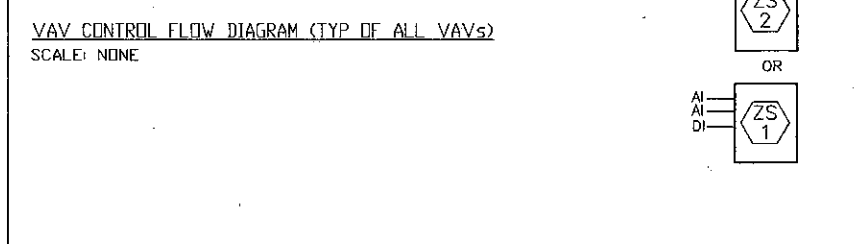
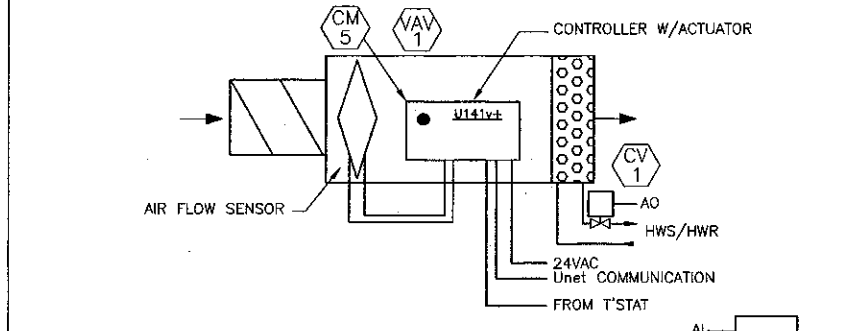
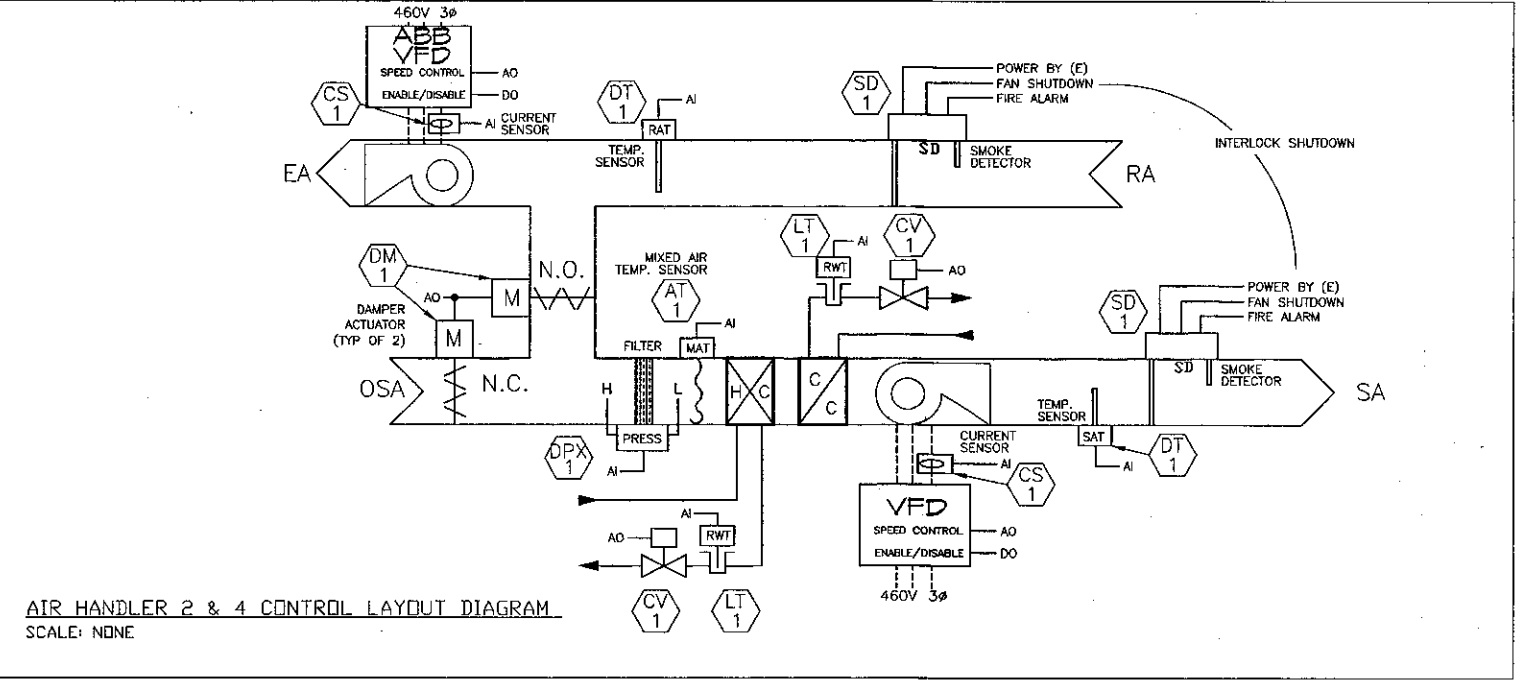
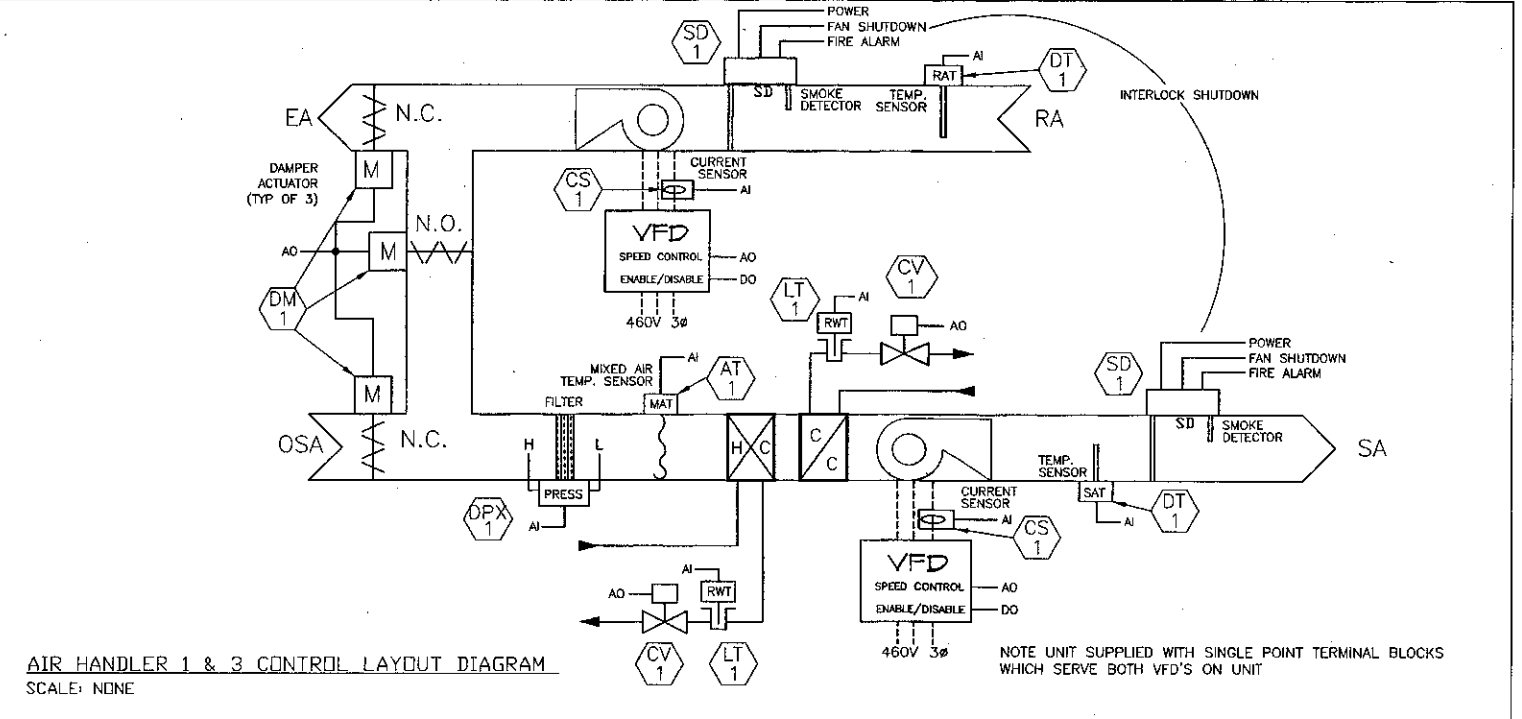
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DRAWN: HAM/DU/FMAR
CHECKED: FWH/AM
DATE: SEPT. 24, 2001
JOB NO.: 9318
SHEET TITLE:
MECHANICAL DETAILS
VENTURA COUNTY COLLEGE
LEARNING RESOURCES CENTER

SHEET
M7.0



- ### CONTROL EQUIPMENT SCHEDULE
- GW 1 GATEWAY MODULE - LGRM-E WITH POWER PACK. TO BE MOUNTED IN THE COMMUNICATION ROOM.
 - CM 1 COMMUNICATION MODULE - UNI/59 TO BE MOUNTED IN THE COMMUNICATION ROOM NEAR THE GATEWAY MODULE IN A 12x14x4 ENCLOSURE WITH POWER TRANSFORMER, SERVICE DISCONNECT SWITCH AND A PROT485, NETWORK PROTECTION BOARD.
 - CM 2 CTRL MODULE - S6104 SINGLE UNIT CONTROLLER WITH SIX DIGITAL OUTPUTS, TEN UNIVERSAL INPUTS AND FOUR ANALOG OUTPUTS.
 - CM 3 CTRL MODULE - M9102x MUTLI-UNIT CONTROLLER WITH 8-DIGITAL OUTPUTS, 10-UNIVERSAL INPUTS & 2-ANALOG OUTPUTS. NON EXPANDABLE.
 - CM 4 CTRL MODULE - U253 UNITARY CONTROLLER WITH 2-DIGITAL OUTPUTS, 5-UNIVERSAL INPUTS, 3-ANALOG OUTPUTS. INTEGRATED LOGISTAT PORT & FLOW PORT FOR OPTIONAL FLOW SENSOR.
 - CM 5 CTRL MODULE - U141v+ VARIABLE AIR VOLUME (VAV) CONTROLLER WITH ONE DIGITAL OUTPUT, FOUR UNIVERSAL INPUTS, ONE ANALOG OUTPUT AND INTEGRATED FLOW PORT, DAMPER ACTUATOR & LOGISTAT PORT.
 - ZS 1 ZONE SENSOR - LOGISTAT + WITH TLD, SET POINT ADJUST AND COMMUNICATION JACK.
 - ZS 2 ZONE SENSOR - LOGISTAT FLUSH. FLUSH MOUNTED TEMP SENSOR.
 - DT 1 DUCT TEMP SENSOR - 10K-2-D-XX', DUCT MOUNTED TEMPERATURE SENSOR WITH INTEGRATED HANDY BOX. USED FOR SUPPLY AND RETURN AIR TEMP.
 - AT 1 AVERAGING TEMP SENSOR - 10K-2-A-XX', MIXED AIR AVERAGING TEMP SENSOR WITH INTEGRATED HANDY BOX.
 - DPX 1 DIFFERENTIAL PRESSURE TRANSMITTER - 0-5VDC OUTPUT, TO BE USED ACROSS FILTER TO DETERMINE FILTER STATUS & SUPPLY DUCT PRESSURE. DWYER 6044
 - CS 1 CURRENT SENSOR - 0-5VDC OR 4-20mA OUTPUT CURRENT SENSOR, TO DETERMINE MOTOR AMPERAGE AND STATUS. VERIS INDUSTRIES OR NIELSEN KULJIAN
 - CV 1 CONTROL VALVE - 2-WAY VALVE SIZED ACCORDINGLY WITH AN ELECTRONIC ACTUATOR WITH EITHER 0-5VDC OR 4-20mA COMMAND SIGNAL. BELIMO IND.
 - DM 1 DAMPER ACTUATOR - SIZE 125% OF DAMPER AREA. WITH 0-10VDC OR 4-20mA CONTROL SIGNAL.
 - VAV 1 VARIABLE AIR VOLUME (VAV) BOX - WITH INTEGRATED FLOW SENSOR AND NO OTHER CONTROLS. SIZE ACCORDINGLY. PROVIDED BY CONTROLS CONTRACTOR AND INSTALLED BY MECHANICAL CONTRACTOR.
 - SD 1 SMOKE DETECTOR - IONIZATION TYPE CONSISTENT WITH THE FIRE ALARM SYSTEM. SEE ELECTRICAL PLANS FOR SPECIFICATIONS. LOCATE SENSOR IN SUPPLY AIR DUCT. INTEGRATE WITH UNIT CONTROLS TO SHUT DOWN FAN WITHOUT DELAY IF SMOKE IS DETECTED. DETECTOR PROVIDED BY ELECTRICAL CONTRACTOR AND INSTALLED BY MECHANICAL CONTRACTOR AND WIRED TO SHUTDOWN FAN VIA RELAY BASE IN DETECTOR. INSTALL ON ALL HVAC SYSTEMS PER UMC SEC. 608.
 - LP 1 LIQUID PRESSURE SENSOR - DWYER SERIES 634A, 4-20mA SIGNAL 0-100 PSI RANGE. PROVIDED BY CONTROLS CONTRACTOR, WELD-G-LET INSTALLED BY PLUMBING CONTRACTOR.
 - LT 1 IMMERSION SENSOR - 10K-2-I-XX' WP IMMERSION TEMP SENSOR WITH STAINLESS STEEL THERMAL WELL AND WEATHER PROOF ENCLOSURE. PROVIDED BY CONTROLS CONTRACTOR, THERMAL WELL INSTALLED BY PLUMBING CONTRACTOR.
 - CO2 1 CARBON DIOXIDE SENSOR. TELEARIE AIRSTAT 5010
 - PS 1 10K TEMPERATURE SENSOR. 4-20mA CARBON DIOXIDE SENSOR
 - PS 1 H2O PRESSURE TRANSMITTER - 4-20mA OUTPUT. FOR SYSTEM PRESSURE CONTROL. PROVIDE ISOLATION VALVE AT CONNECTION TO PIPING. DWYER INSTRUMENTS 634-E-1
 - PROT485 U-LINE NETWORK PROTECTION BOARD. INSTALL ONE AT THE LAST MODULE ON THE NETWORK AND AT THE UNI/59 FOR EACH UNIT NETWORK.
 - FM 1 FLOW METER. SIGNET MODEL 5924-551 FIELD MOUNT 4-20 MA OUTPUT TO EMS. CHILLED WATER INSERTION FITTING 5921-040 W/ 5931-511 PADDLEWHEEL. HOT WATER INSERTION FITTING 5919-020 W/ 5931-526 METAL PADDLEWHEEL.



KRUGER BENSON ZIEMER ARCHITECTS INC.
AIA
30 W. APPELACK SANTA BARBARA, CA 93101
909/983.1728

STEVE DOWDY, A.I.A.
PRINCIPAL IN CHARGE

THIERRY H. CASSAN
PROJECT DESIGNER

alternative energy & environmental engineering
MECHANICAL ENGINEERS
838 EAST FRONT ST. VENTURA, CA 93001
(805) 653-1722 FAX: (805) 653-7260

VENTURA COLLEGE LEARNING RESOURCES CENTER
Ventura County Community College District
Ventura, CA 93003
4667 Telegraph Road

ENGINEERS' STAMP
No. 98266
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MECHANICAL
STATE OF CALIFORNIA

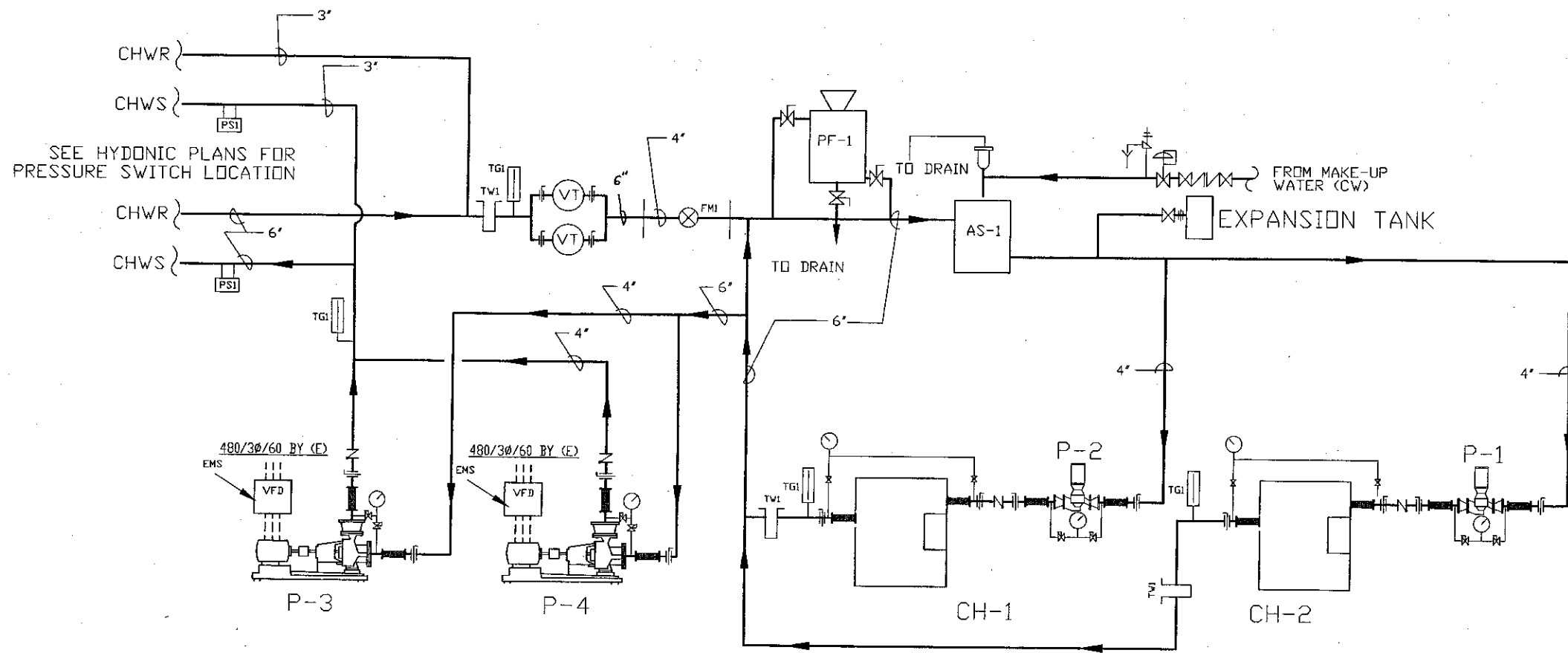
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No. C-11153
Ren. 11/01
STATE OF CALIFORNIA

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
FILE NUMBER: 66-01
APPL 03 - 104498
AC X RS 25 SS 11/11/04

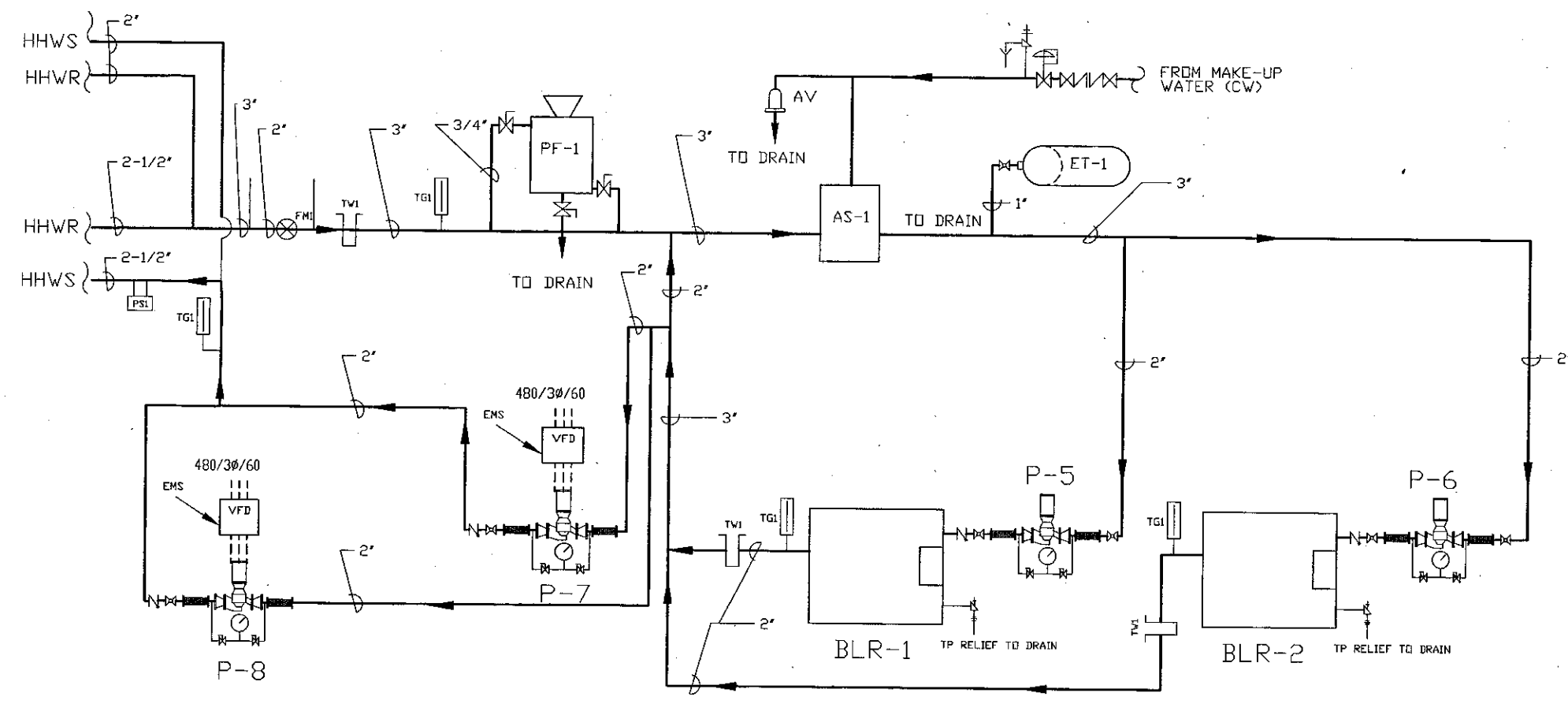
NO.	DESCRIPTION	DATE	BY

DRAWN: HAM/DUF/MAR
CHECKED: PW/HAM
DATE: SEPT. 24, 2001
JOB NO.: 9316
SHEET TITLE:
CONTROL DETAILS
VENTURA COMMUNITY COLLEGE
LEARNING RESOURCES CENTER

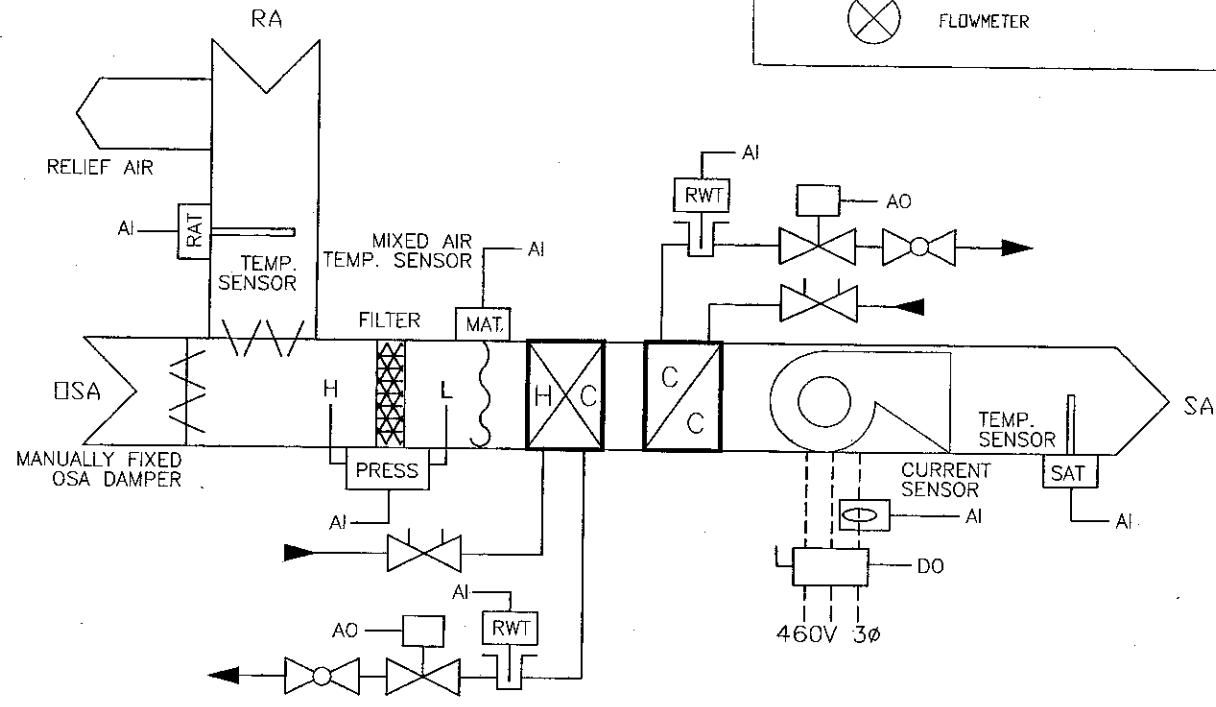
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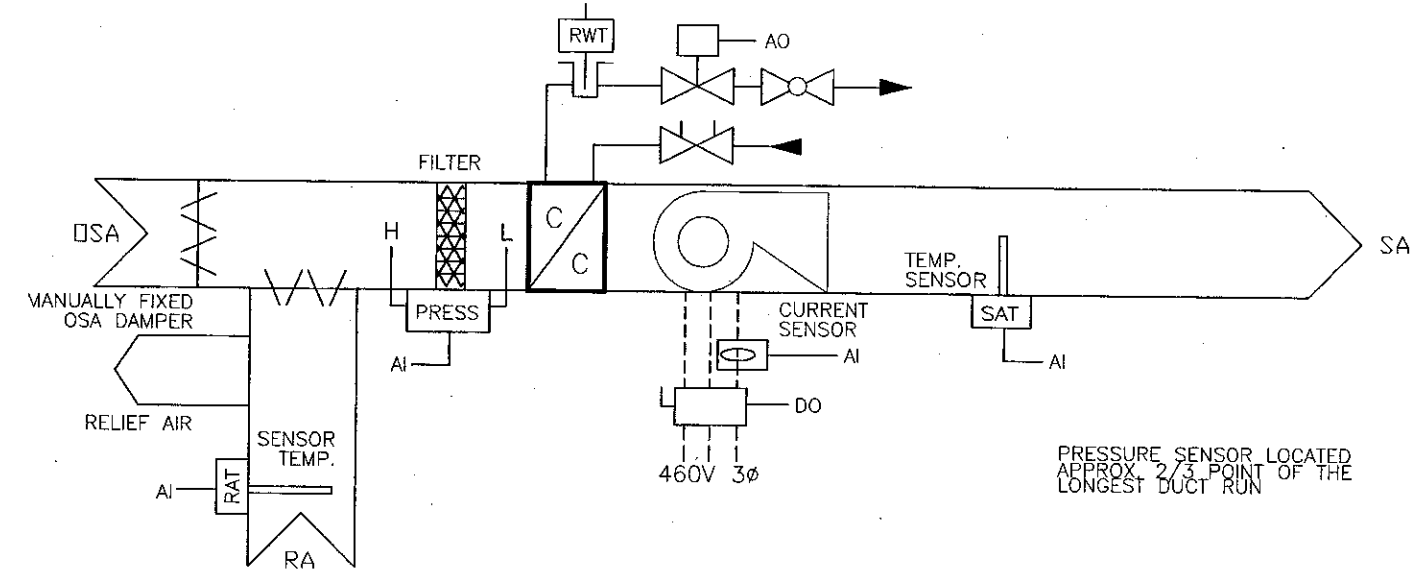
CHILLER PIPING DIAGRAMATIC LAYOUT
SCALE: NONE



BOILER PIPING DIAGRAMATIC LAYOUT
SCALE: NONE



PRODUCTION ROOM AIR HANDLER FLOW DIAGRAM
SCALE: NONE



STUDIO ROOM FAN COIL UNIT FLOW DIAGRAM
SCALE: NONE

PLUMBING DEVICE LEGEND

- TEMPERATURE GAGE
- FLOW INDICATOR
- PRESSURE GAGE
- VIBRATION ISOLATOR
- BUTTERFLY VALVE
- ISOLATION BALL VALVE
- THERMAL WELL WELD-O-LET
- PRESSURE SENSOR WELD-O-LET
- CHECK VALVE
- IN-LINE PUMP
- FLOOR MOUNT PUMP
- POT FEEDER
- EXPANSION TANK
- AIR SEPARATOR
- FLOWMETER



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THIERRY H. CASSAN
PROJECT DESIGNER

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LEARNING RESOURCES CENTER**
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Ventura, CA 93003
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APPL 03 - 104498
DATE: 11/21/01

NO.	DESCRIPTION	DATE	BY

DRAWN: HAM/DUE/MAR
CHECKED: PW/HAM
DATE: SEPT. 24, 2001
JOB NO.: 9318
SHEET TITLE: CHILLER/BOILER PIPING LAYOUT VENTURA COMMUNITY COLLEGE LEARNING RESOURCES CENTER

SHEET
M8.1



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STEVE DOWTY, A.I.A.
PRINCIPAL IN CHARGE

THIERRY H. CASSAN
PROJECT DESIGNER

As shown, design and construction of this project is subject to the approval of the County of Santa Barbara and the State of California. The County of Santa Barbara and the State of California are not responsible for the design, construction, or performance of this project. The County of Santa Barbara and the State of California are not responsible for the design, construction, or performance of this project. The County of Santa Barbara and the State of California are not responsible for the design, construction, or performance of this project.

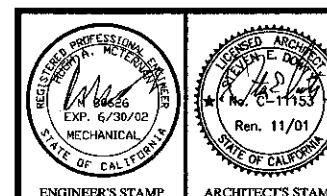
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LEARNING RESOURCES CENTER

Ventura County Community College District

Ventura, CA 93003

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FILE NUMBER: 00-00
APPL 05 - 000000
DATE: 10/12/2000

NO.	DESCRIPTION	DATE	BY

DRAWN: HAM/DUFMIAR
CHECKED: PW/HAM
DATE: 10/12/2000
JOB NO.: 9310

SHEET TITLE
ENERGY NOTES
VENTURA COMMUNITY COLLEGE
LEARNING RESOURCES CENTER

SHEET
EN-1

ENVELOPE MANDATORY MEASURES

INSTALLED INSULATING MATERIAL SHALL HAVE BEEN CERTIFIED BY THE MANUFACTURER TO COMPLY WITH THE CALIFORNIA QUALITY STANDARDS FOR INSULATING MATERIAL. ALL INSULATING MATERIAL SHALL BE INSTALLED IN COMPLIANCE WITH THE FLAME SPREAD RATING AND SMOKE DENSITY REQUIREMENTS OF THE UBC CHAP. 11. ALL EXTERIOR JOINTS AND OPENINGS IN THE BUILDING ENVELOPE THAT ARE OBSERVABLE SOURCES OF AIR LEAKAGE SHALL BE CAULKED, GASKETED, WEATHER-STRIPPED OR OTHERWISE SEALED.

SITE CONSTRUCTED DOORS, WINDOWS, AND SKYLIGHTS SHALL BE CAULKED BETWEEN THE UNIT AND THE BUILDING, AND SHALL BE WEATHER-STRIPPED (EXCEPT FOR UNFRAMED GLASS DOORS AND FIRE DOORS).

MANUFACTURED DOORS AND WINDOWS INSTALLED SHALL HAVE AIR INFILTRATION RATES CERTIFIED BY THE MANUFACTURER PER 2-5316(A)1. AFTER JULY 1 1993, MANUFACTURED PENETRATION PRODUCTS MUST BE LABELED FOR U-VALUE ACCORDING TO NFRC PROCEDURES.

VENTILATION CONTROLS SHALL BE PROVIDED TO ALLOW OUTSIDE AIR DAMPERS OR DEVICES TO BE OPERATED AT THE VENTILATION RATES AS SPECIFIED IN THESE PLANS.

GRAVITY OR AUTOMATIC DAMPERS INTERLOCKED AND CLOSED IN FAN SHUTDOWN SHALL BE PROVIDED ON OUTSIDE AIR INTAKES AND DISCHARGES OF ALL SPACE CONDITIONING AND EXHAUST SYSTEMS.

ALL GRAVITY VENTILATING SYSTEMS SHALL BE PROVIDED WITH AUTOMATIC OR READILY ACCESSIBLE MANUALLY OPERATED DAMPERS IN ALL OPENINGS TO THE OUTSIDE, EXCEPT FOR COMBUSTION AIR OPENINGS.

AIR BALANCING: ALL SPACE CONDITIONING AND VENTILATION SYSTEMS SHALL BE BALANCED TO THE QUANTITIES SPECIFIED IN THESE PLANS, IN ACCORDANCE WITH THE NATIONAL ENVIRONMENTAL BALANCING BUREAU (NEBB) OR ASSOCIATED AIR BALANCE COUNCIL (AABC) NATIONAL STANDARDS (1998).

OUTSIDE AIR CERTIFICATION: THE SYSTEM SHALL PROVIDE THE MINIMUM OUTSIDE AIR AS SHOWN ON THE MECHANICAL DRAWINGS, AND SHALL BE MEASURED AND CERTIFIED BY THE INSTALLING LICENSED C-20 MECHANICAL CONTRACTOR.

HVAC & WATER HEATING MANDATORY MEASURES

ANY APPLIANCE FOR WHICH THERE IS A CALIFORNIA STANDARD ESTABLISHED IN THE APPLIANCE EFFICIENCY STANDARDS MANUAL INSTALLED ONLY IN THE MANUFACTURER HAS CERTIFIED TO THE COMMISSION, AS SPECIFIED IN THOSE REGULATIONS, THAT THE APPLIANCE COMPLIES WITH THE APPLICABLE STANDARD FOR THE APPLIANCE. INCLUDED ARE ROOM AIR CONDITIONERS, CENTRAL ROOM AIR CONDITIONERS HEAT PUMPS (REGARDLESS OF CAPACITY, EXCEPT THAT REQUIREMENTS FOR CENTRAL AIR CONDITIONING HEAT PUMPS WITH A COOLING CAPACITY OF 135000 BTU/HOUR MORE APPLY TO HEATING PERFORMANCE BUT NOT COOLING PERFORMANCE), OTHER CENTRAL AIR CONDITIONERS WITH A COOLING LESS THAN 135000 BTU/HR, FAN TYPE CENTRAL FURNACES WITH INPUT RATE OF LESS THAN 40000 BTU/HR, BOILERS, WALL FURNACES, FLOOR FURNACES, ROOM HEATERS, UNIT HEATERS, AND DUCT FURNACES SHALL HAVE BEEN CERTIFIED TO THE CALIFORNIA ENERGY COMMISSION BY ITS MANUFACTURER TO COMPLY WITH THE APPLIANCE EFFICIENCY STANDARDS. THE FOLLOWING SPACE CONDITIONING EQUIPMENT MAY BE INSTALLED ONLY IF THE MANUFACTURER HAS CERTIFIED THAT THE EQUIPMENT MEETS OR EXCEEDS ALL APPLICABLE ENERGY EFFICIENCY REQUIREMENTS LISTED IN 112 OF THE ENERGY EFFICIENCY STANDARDS: ALL AIR CONDITIONERS HEAT PUMPS, AND CONDENSING COILS >MORE THAN 135000 BTU/HR; ALL WATER CHILLERS; ALL GAS FIRED BOILERS >30000 BTU/HR; ALL OIL FIRED BOILERS >25000 BTU/HR; AND ALL WARM AIR FURNACES/AIR CONDITIONING UNITS >22500 BTU/HR. FAN TYPE CENTRAL FURNACES SHALL NOT HAVE A PILOT LIGHT.

PIPING, EXCEPT THOSE CONVEYING FLUIDS AT TEMPERATURES BETWEEN 60 DEG. F AND 105 DEG. F, OR WITHIN HVAC EQUIPMENT SHALL BE INSULATED IN ACCORDANCE WITH STANDARDS PARA 123.

AIR HANDLING DUCT SYSTEMS SHALL BE CONSTRUCTED, INSTALLED AND SEALED AS PROVIDED IN THE 1995 CALIF. MECH. CODE.

CONTROLS EACH SPACE CONDITIONING SYSTEM SHALL BE INSTALLED WITH AN AUTOMATIC TIME SWITCH WITH AN ACCESSIBLE MANUAL OVERRIDE THAT ALLOWS OPERATION OF THE SYSTEM DURING OFF HOURS FOR UP TO 4 HOURS. THE TIME SWITCH SHALL BE CAPABLE OF PROGRAMMING DIFFERENT SCHEDULES FOR WEEKDAYS AND WEEKENDS; INCORPORATE AN AUTOMATIC HOLIDAY "SHUT-OFF" FEATURE THAT TURNS OFF ALL LOADS FOR AT LEAST 24 HOURS, THEN RESUMES THE NORMALLY SCHEDULED OPERATION, AND HAS PROGRAM BACKUP CAPABILITIES THAT PREVENT THE LOSS OF THE DEVICE'S PROGRAM AND TIME SETTING FOR AT LEAST 10 HOURS IF POWER IS INTERRUPTED.

EACH SPACE CONDITIONING SYSTEM SHALL BE INSTALLED WITH AN OCCUPANCY SENSOR TO CONTROL THE OPERATING PERIOD OF THE SYSTEM.

EACH SPACE CONDITIONING SYSTEM SHALL BE INSTALLED WITH CONTROLS THAT TEMPORARILY RESTART AND OPERATE THE SYSTEM AS REQUIRED TO MAINTAIN A SETBACK COOLING THERMOSTAT SETPOINT.

EACH SPACE CONDITIONING SYSTEM SERVING MULTIPLE ZONES WITH A COMBINED CONDITIONED FLOOR AREA MORE THAN 25000 SQUARE FEET SHALL BE PROVIDED WITH ISOLATION ZONES. EACH ZONE SHALL: NOT EXCEED 25000 SQUARE FEET SHALL BE PROVIDED WITH ISOLATION DEVICES SUCH AS VALVES OR DAMPERS, THAT ALLOW THE SUPPLY OF HEATING OR COOLING TO BE SETBACK OR SHUT IF INDEPENDENTLY OF OTHER ISOLATION AREAS; AND SHALL BE CONTROLLED BY A TIME CONTROL DEVICE AS DESCRIBED ABOVE.

EACH SPACE CONDITIONING ZONE SHALL BE CONTROLLED BY AN INDIVIDUAL THERMOSTATIC CONTROL THAT RESPONDS TO TEMPERATURE WITHIN THE ZONE. WHERE USED TO CONTROL HEATING, THE CONTROL SHALL BE ADJUSTABLE DOWN TO 55 DEG. FOR LOWER. FOR COOLING, THE CONTROL SHALL BE ADJUSTABLE UP TO 85 DEG. F OR HIGHER. WHERE USED TO CONTROL BOTH HEATING AND COOLING, THE CONTROL SHALL BE CAPABLE OF PROVIDING A DEAD BAND OF AT LEAST 5 DEG. F WITHIN WHICH THE SUPPLY OF HEATING AND COOLING IS SHUTOFF OR REDUCED TO A MINIMUM.

THERMOSTATS SHALL HAVE NUMERIC SETPOINTS IN DEG. F. THERMOSTATS SHALL HAVE ADJUSTABLE SETPOINTS STOPS ACCESSIBLE ONLY TO AUTHORIZED PERSONNEL.

HEAT PUMPS SHALL BE INSTALLED WITH CONTROLS TO PREVENT THE ELECTRIC RESISTANCE SUPPLEMENTARY HEATER OPERATION WHEN THE HEATING LOAD CAN BE MET BY THE HEAT PUMP ALONE. ELECTRIC RESISTANCE SUPPLEMENTARY HEATER OPERATION IS PERMITTED DURING TRANSIENT PERIODS, SUCH AS START-UPS AND FOLLOWING ROOM THERMOSTAT SETPOINT ADVANCE, WHEN CONTROLS ARE PROVIDED WHICH USE PREFERENTIAL RATE CONTROL, INTELLIGENT RECOVERY, STAGING RAMPING, OR SIMILAR CONTROL MECHANISMS DESIGNED TO PRECLUDE THE UNNECESSARY OPERATION OF SUPPLEMENTARY HEATING DURING THE RECOVERY PERIOD. SUPPLEMENTARY HEATER OPERATION IS ALSO PERMITTED DURING DEFROST.

CERTIFICATE OF COMPLIANCE (Part 1 of 2) ENV-1

PROJECT: VENTURA COLLEGE LEARNING RESOURCES CENTER DATE: Oct 12, 2000
PROJECT ADDRESS: 4141 TELEGRAPH ROAD VENTURA, CA
MECHANICAL DESIGNER: ALTERNATIVE ENERGY & ENVIRONMENTAL ENGINEERS, INC. (805) 653-1722
DOCUMENTATION DESIGNER: DAVID INGER (805) 653-1722

GENERAL INFORMATION
DATE OF PLANS: BUILDING CONDITIONED FLOOR AREA: CLIMATE ZONE:
BUILDING TYPE: NONRESIDENTIAL HIGH RISE RESIDENTIAL HOTEL/MOTEL GUEST ROOM
PHASE OF CONSTRUCTION: NEW CONSTRUCTION ADDITION ALTERATION UNCONDITIONED (See 553.2.1)
METHOD OF ENVELOPE COMPLIANCE: COMPONENT OVERALL ENVELOPE PERFORMANCE

STATEMENT OF COMPLIANCE
This Certificate of Compliance lists the building features and performance specifications need to comply with Title 24, Part 1 and 6 of the California Code of Regulations. This certificate applies only to building envelope requirements.

The documentation preparer hereby certifies that the documentation is accurate and complete.

DESIGNER/DOCUMENT PREPARER: DAVID INGER SIGNATURE: DATE:

The Principal Envelope Designer hereby certifies that the proposed building design represented in this set of construction documents is consistent with the other compliance forms and worksheets, with the specifications, and with any other calculations submitted with this permit application. The proposed building has been designed to meet the envelope requirements contained in sections 110, 116 through 119, and 140, 142, 143 or 149 of Title 24, Part 6.

Please check one:
 I hereby affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code to sign this document as the person responsible for its preparation, and that I am licensed in the State of California as a civil engineer or mechanical engineer, or I am a licensed architect.

I affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code by section 5537.2 or 6737.3 to sign this document as the person responsible for its preparation; and that I am a licensed contractor performing this work.

I affirm that I am eligible under Division 3 of the Business and Professions Code to sign this document because it pertains to a structure or type of work described as exempt pursuant to Business and Professions Code Sections 5537, 5538 and 6737.1.

(These sections of the Business and Professions Code are printed in full in the Nonresidential Manual.)

PRINCIPAL ENVELOPE DESIGNER NAME: DAVID INGER SIGNATURE: DATE: DEC:

ENVELOPE MANDATORY MEASURES

Indicate location on plans of Note Block for Mandatory Measures: EN-1

INSTRUCTIONS TO APPLICANT

For Detailed instructions on the use of this and all Energy Efficiency Standards compliance forms, please refer to the Nonresidential Manual published by the California Energy Commission.
ENV-1: Required on plans for all submittals. Part 2 may be incorporated in schedules on plans.
ENV-2: Used for all submittals; choose appropriate version depending on method of envelope compliance.
ENV-3: Optional. Use if default U-values are not used. Choose appropriate version for assembly U-value to be calculated.

Nonresidential Compliance Form November 1998

CERTIFICATE OF COMPLIANCE (Part 1 of 2) MECH-1

PROJECT: VENTURA COLLEGE LEARNING RESOURCES CENTER DATE: Oct 12, 2000
PROJECT ADDRESS: 4141 TELEGRAPH ROAD VENTURA, CA
MECHANICAL DESIGNER: ALTERNATIVE ENERGY & ENVIRONMENTAL ENGINEERS, INC. (805) 653-1722
DOCUMENTATION DESIGNER: DAVID INGER (805) 653-1722

GENERAL INFORMATION
DATE OF PLANS: BUILDING CONDITIONED FLOOR AREA:
BUILDING TYPE: NONRESIDENTIAL HIGH RISE RESIDENTIAL HOTEL/MOTEL GUEST ROOM
PHASE OF CONSTRUCTION: NEW CONSTRUCTION ADDITION ALTERATION UNCONDITIONED (See 553.2.1)
METHOD OF MECHANICAL COMPLIANCE: PRESCRIPTIVE PERFORMANCE
PROOF OF ENVELOPE COMPLIANCE: PREVIOUS ENVELOPE PERMIT ENVELOPE COMPLIANCE ATTACHED

STATEMENT OF COMPLIANCE
This Certificate of Compliance lists the building features and performance specifications need to comply with Title 24, Part 1 and 6 of the California Code of Regulations. This certificate applies only to building mechanical requirements.

The documentation preparer hereby certifies that the documentation is accurate and complete.

DESIGNER/DOCUMENT PREPARER: DAVID INGER SIGNATURE: DATE:

The Principal Mechanical Designer hereby certifies that the proposed building design represented in this set of construction documents is consistent with the other compliance forms and worksheets, with the specifications, and with any other calculations submitted with this permit application. The proposed building has been designed to meet the mechanical requirements contained in the applicable parts of Sections 110 through 115, 120 through 124, 140 through 142, 144 and 145.

Please check one:
 I hereby affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code to sign this document as the person responsible for its preparation, and that I am licensed in the State of California as a civil engineer or mechanical engineer, or I am a licensed architect.

I affirm that I am eligible under the exemption to Division 3 of the Business and Professions Code by Section 5537.2 or 6737.3 to sign this document as the person responsible for its preparation; and that I am a licensed contractor performing this work.

I affirm that I am eligible under the exemption to Division 3 of the Business and Professions Code to sign this document because it pertains to a structure or type of work described pursuant to Business and Professions Code sections 5537, 5538, and 6737.1.

(These sections of the Business and Professions Code are printed in full in the Nonresidential Manual.)

PRINCIPAL MECHANICAL DESIGNER NAME: DAVID INGER SIGNATURE: DATE: DEC:

MECHANICAL MANDATORY MEASURES

Indicate location on plans of Note Block for Mandatory Measures: EN-1

INSTRUCTIONS TO APPLICANT

For Detailed instructions on the use of this and all Energy Efficiency Standards compliance forms, please refer to the Nonresidential Manual published by the California Energy Commission.
MECH-1: Required on plans for all submittals. Part 2 may be incorporated in schedules on plans.
MECH-2: Required for all submittals, but may be incorporated in schedules on plans.
MECH-3: Required for all submittals unless required ventilation rates and airflow are shown on plans. See 4.3.4.
MECH-4: Required for all prescriptive submittals.

Nonresidential Compliance Form November 1998

PLUMBING NOTES

1. SCOPE OF WORK: PLUMBING WORK INCLUDES THE FOLLOWING: FURNISH AND INSTALL ALL PIPING AND PLUMBING FIXTURES SHOWN ON THE CIVIL AND MECHANICAL ARCHITECTURAL DRAWINGS AND DESCRIBED IN THESE NOTES AND THE BOOK SPECIFICATIONS...

2. EXAMINATION OF SITE AND CONTRACT DOCUMENTS. EACH BIDDER SHALL, AT ITS SOLE COST AND EXPENSE, INSPECT THE SITE OF THE PROPOSED WORK TO BECOME FULLY ACQUAINTED WITH CONDITIONS RELATING TO THE WORK AND TO FULLY UNDERSTAND THE FACILITIES, DIFFICULTIES AND RESTRICTIONS ATTENDING THE EXECUTION OF THE WORK...

3. INTERPRETATION OF DRAWINGS, SPECIFICATIONS OR CONTRACT DOCUMENTS. IF ANY BIDDER IS IN DOUBT AS TO THE TRUE MEANING OF ANY PART OF THE DRAWINGS, THE SPECIFICATIONS OR OTHER PORTIONS OF THE CONTRACT DOCUMENTS...

4. DIMENSIONS. ALL DIMENSIONS SHALL HAVE PREFERENCE OVER SCALE. ALL DIMENSIONS SHALL BE VERIFIED IN THE FIELD. WORKING SHALL BE NOTIFIED OF ANY DISCREPANCIES BETWEEN ARCHITECTURAL AND ENGINEERING DRAWINGS BEFORE PROCEEDING WITH WORK...

5. CODES AND STANDARDS. ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE 1998 CALIFORNIA VERSION OF THE UNIFORM PLUMBING CODE, THE 1998 CALIFORNIA VERSION OF THE UNIFORM MECHANICAL CODE, THE 1998 CALIFORNIA VERSION OF THE UNIFORM BUILDING CODE AND THE LOCAL JURISDICTION...

6. SUBMITTALS REQUIRED: PRIOR TO ORDERING FIXTURES AND MATERIALS, CONTRACTOR SHALL FURNISH SUBMITTALS OF ALL FIXTURES AND MATERIALS PROPOSED FOR USE IN THIS PROJECT...

7. CONSTRUCTION OBSERVATION: IN ADDITION TO THE REQUIREMENT FOR OBTAINING INSPECTIONS BY THE LOCAL JURISDICTION, CONTRACTOR SHALL NOTIFY ENGINEER AT APPROPRIATE TIMES DURING THE CONSTRUCTION PROCESS...

8. UNDERGROUND ALERT: BEFORE LAYING OUT PIPING AND PERFORMING TRENCHING, CONTRACTOR SHALL DETERMINE LOCATIONS OF EXISTING UNDERGROUND UTILITIES, CONTACT DIVISION OF UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA...

9. TRENCHING: MATERIAL SHALL BE EXCAVATED FROM TRENCHES AND FILLED ADJACENT TO THE TRENCH IN SUCH A MANNER THAT IN SUCH A MANNER THAT WILL CAUSE A MINIMUM OF INCONVENIENCE TO PUBLIC TRAVEL...

TRENCHING FOR SEWERS AND DRAINS SHALL BE OF SUFFICIENT WIDTH TO PERMIT PROPER JOINTING OF THE PIPE AND BACKFILLING OF MATERIAL ALONG THE SIDES OF THE PIPE...

WHERE THE TRENCH BOTTOM IS IN A MATERIAL WHICH IS UNSUITABLE FOR FOUNDATION OR WHICH WILL MAKE IT DIFFICULT TO OBTAIN UNIFORM BEARING FOR THE PIPE...

10. BACKFILL: CONTRACTOR SHALL COMPLETE BEDDING AND THEN BACKFILL TO 6 INCHES OVER THE TOP OF THE PIPE WITH SAND BEFORE STARTING BACKFILLING OPERATIONS...

WHEN WORKING IN AN EXISTING TRAVELED ROADWAY, RESTORATION AND COMPACTION SHALL BE ACHIEVED BY THE TRENCHING CONTRACTOR TO MAINTAIN TRAFFIC PROVIDED TEMPORARY, TRAFFIC-BEARING STEEL PLATES OVER EXCAVATIONS IN PUBLIC RIGHTS-OF-WAY...

THE METHOD OF COMPACTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR UNLESS EXCAVATION PERMIT REGULATIONS REQUIRE OTHERWISE. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE THE PROPER SIZE AND TYPE OF COMPACTION EQUIPMENT AND SELECT THE PROPER METHOD OF UTILIZING SAID EQUIPMENT TO ATTAIN THE REQUIRED COMPACTION DENSITY...

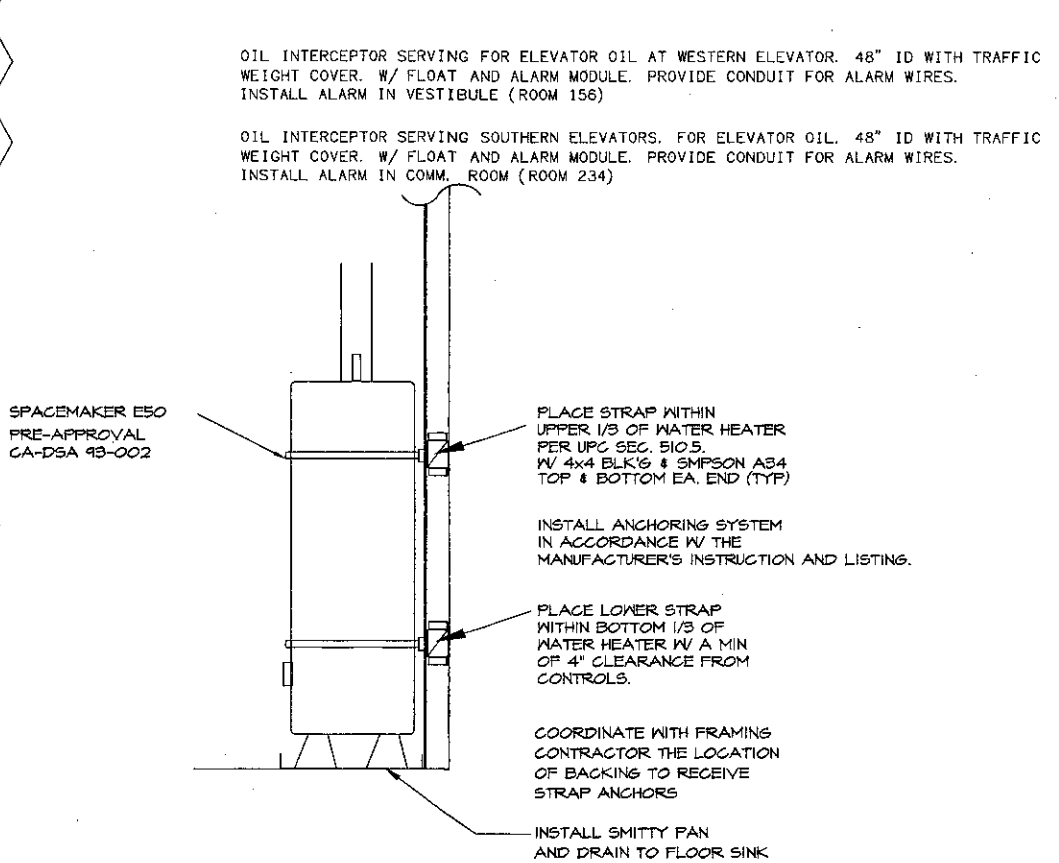
WHERE BACKFILL IS REQUIRED TO BE COMPACTED TO A SPECIFIED DENSITY, TESTS FOR COMPLIANCE SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE GOVERNING AUTHORITY...

11. PIPING LOCATIONS: PIPING LOCATIONS SHOWN ARE DIAGRAMMATIC ONLY. CONTRACTOR SHALL VERIFY LOCATIONS OF ALL LATERAL STOPS, OFFSETS, OBSTRUCTIONS, ETC. REQUIRED IN THE FIELD...

FIXTURE SCHEDULE

Table with columns: SYMBOL, WASTE, VENT, CW, HW, DESCRIPTION. Lists various fixtures like toilets, lavatories, sinks, showers, and water heaters with their specifications and quantities.

Table with columns: SYMBOL, WASTE, VENT, CW, HW, DESCRIPTION. Lists indirect waste receptors, hydrants, and other plumbing fixtures.



WATER HEATER ANCHORING DETAIL NO SCALE

SEE SHEET P-15 FOR PIPE SUPPORT DETAILS

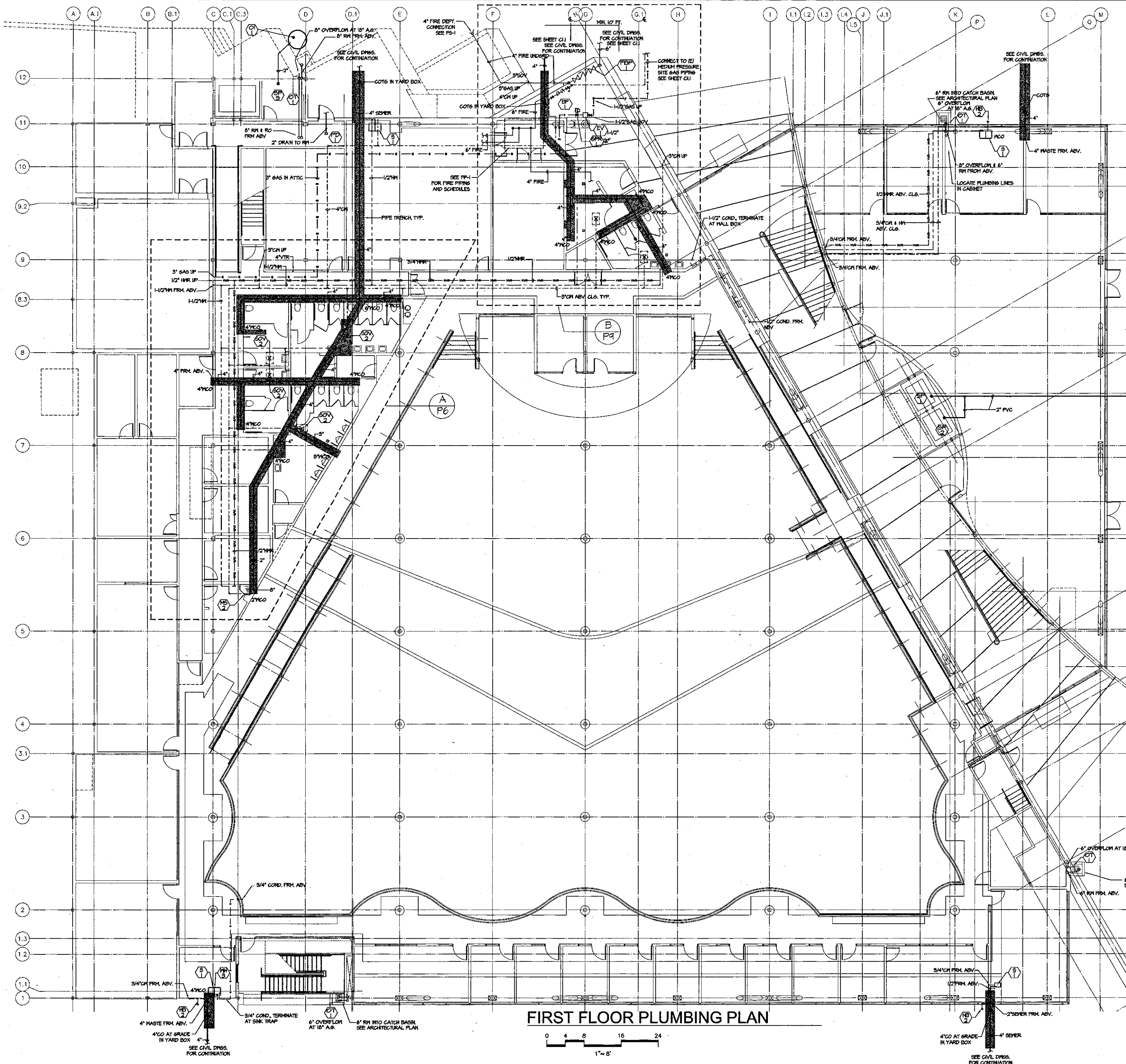
Tables for LINE LEGEND and SYMBOL LEGEND. Line legend shows symbols for cold water, hot water, vent, waste, gas, rainwater, and condensate. Symbol legend shows symbols for cold water, hot water, wall clean-out, clean-out to grade, vent to roof, clean-out to grade in yard box, wall clean-out, shut-off valve, roof drain, and roof overflow.

KRUEGER BENSEN ZIEMER ARCHITECTS INC. STEVE DOWDY, A.I.A. PROJECT DESIGNER. alternative energy & environmental engineering MECHANICAL ENGINEERS

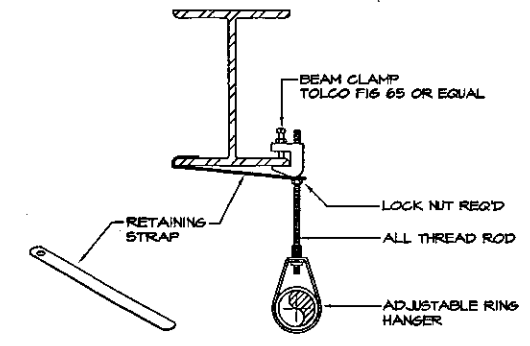
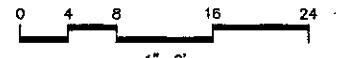
VENTURA COLLEGE LEARNING RESOURCES CENTER Ventura County Community College District 4667 Telegraph Road Ventura, CA 93003

Professional Engineer's Stamp and Architect's Stamp for the project.

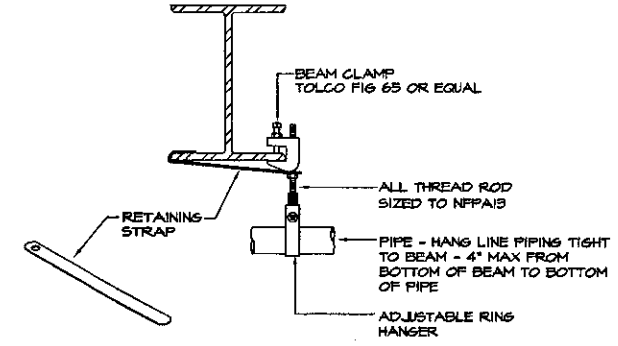
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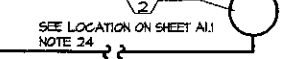
FIRST FLOOR PLUMBING PLAN



BOTTOM BEAM CLAMP, ROD, AND RING (TYP)
NO SCALE

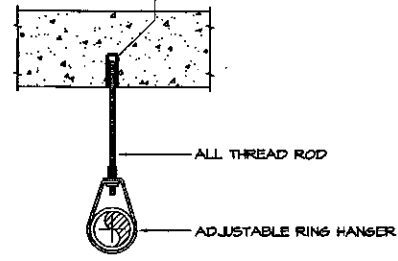


BOTTOM BEAM CLAMP, ROD, AND RING (TYP)
NO SCALE



PIPE ANCHOR AT CONCRETE DECK SCHEDULE

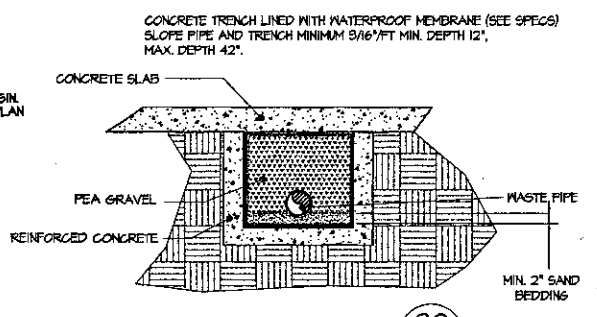
PIPE SIZE	MULTI - HDI	MAX. ALLOW. LOAD
LESS THAN 2" Ø	1/4" Ø	335#
2" Ø TO 3" Ø	3/8" Ø	562#
GREATER THAN 3" Ø	1/2" Ø	850#



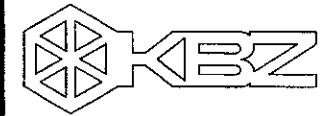
SELF DRILLING ANCHOR, ROD AND RING
NO SCALE

THREADED ROD PIPE SUPPORT SCHEDULE

PIPE SIZE	ROD SIZE	MAX. ALLOW. LOAD
LESS THAN 2" Ø	1/4" Ø	335#
2" Ø TO 3" Ø	3/8" Ø	562#
GREATER THAN 3" Ø	1/2" Ø	850#



DETAIL 1 - UNDERGROUND PIPE TRENCH
NO SCALE



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805/983.1725

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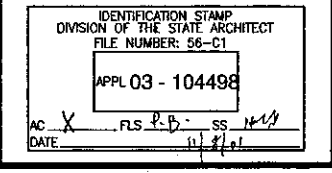
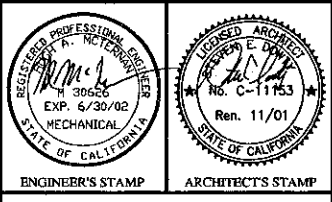
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PROJECT DESIGNER

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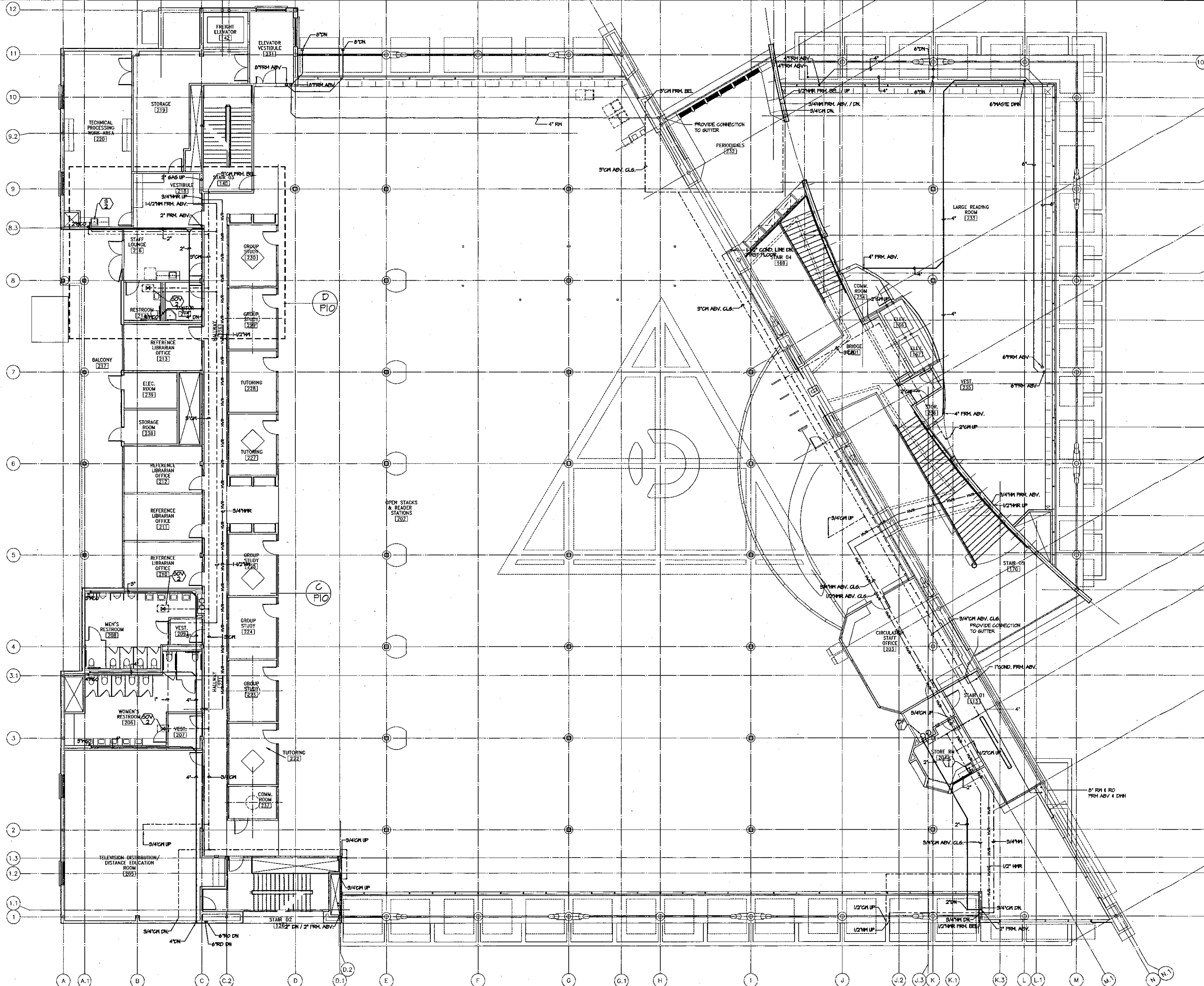
VENTURA COLLEGE LEARNING RESOURCES CENTER

Ventura County Community College District
Ventura, CA 93003
4667 Telegraph Road

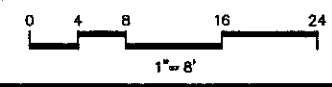


NO.	DESCRIPTION	DATE	BY

DRAWN: HAM/DJF/MAR
CHECKED: PW/HAM
DATE: SEPT. 24, 2001
JOB NO.: 9315
SHEET TITLE: FIRST FLOOR PLUMBING PLAN



SECOND FLOOR PLUMBING PLAN

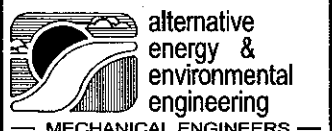


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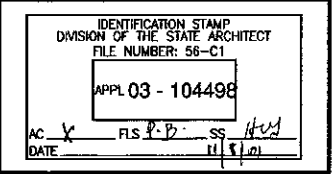
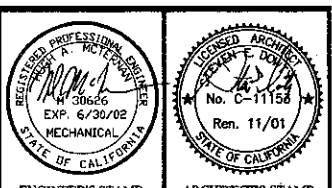
THIERRY H. CASSAN
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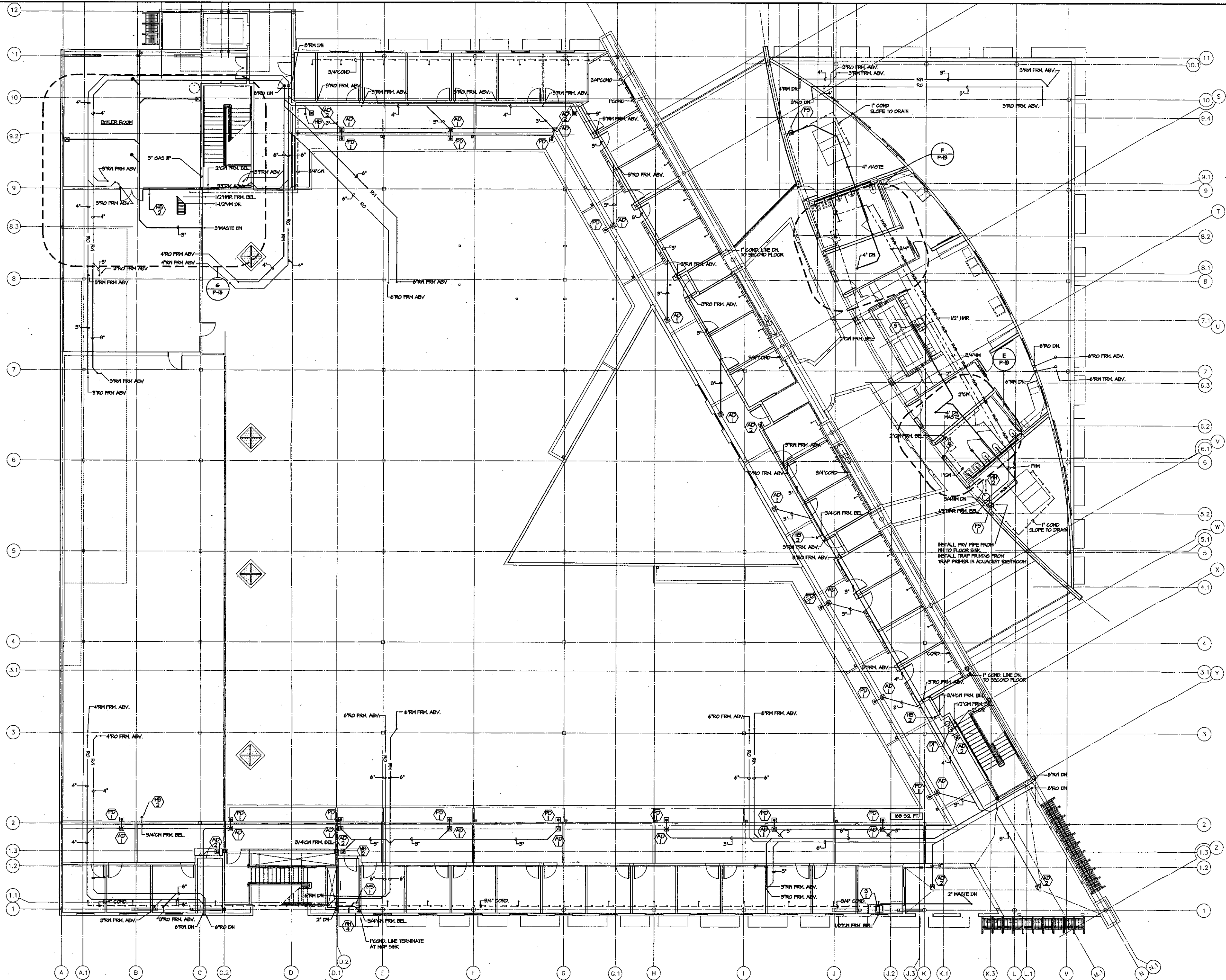
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Ventura County Community College District
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NO.	DESCRIPTION	DATE	BY

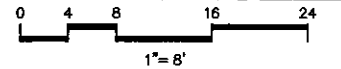
DRAWN	HAM/DU/FMAR
CHECKED	PW/HAM
DATE	SEPT. 24, 2001
JOB NO.	9318
SHEET TITLE	SECOND FLOOR PLUMBING PLAN

SHEET
P-3



NOTE:
AREA DRAIN IN CONTINUOUS GUTTER.
PROVIDED BY ROOFING CONTRACTOR.

THIRD FLOOR PLUMBING PLAN



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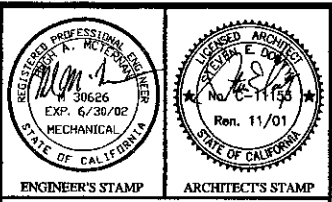
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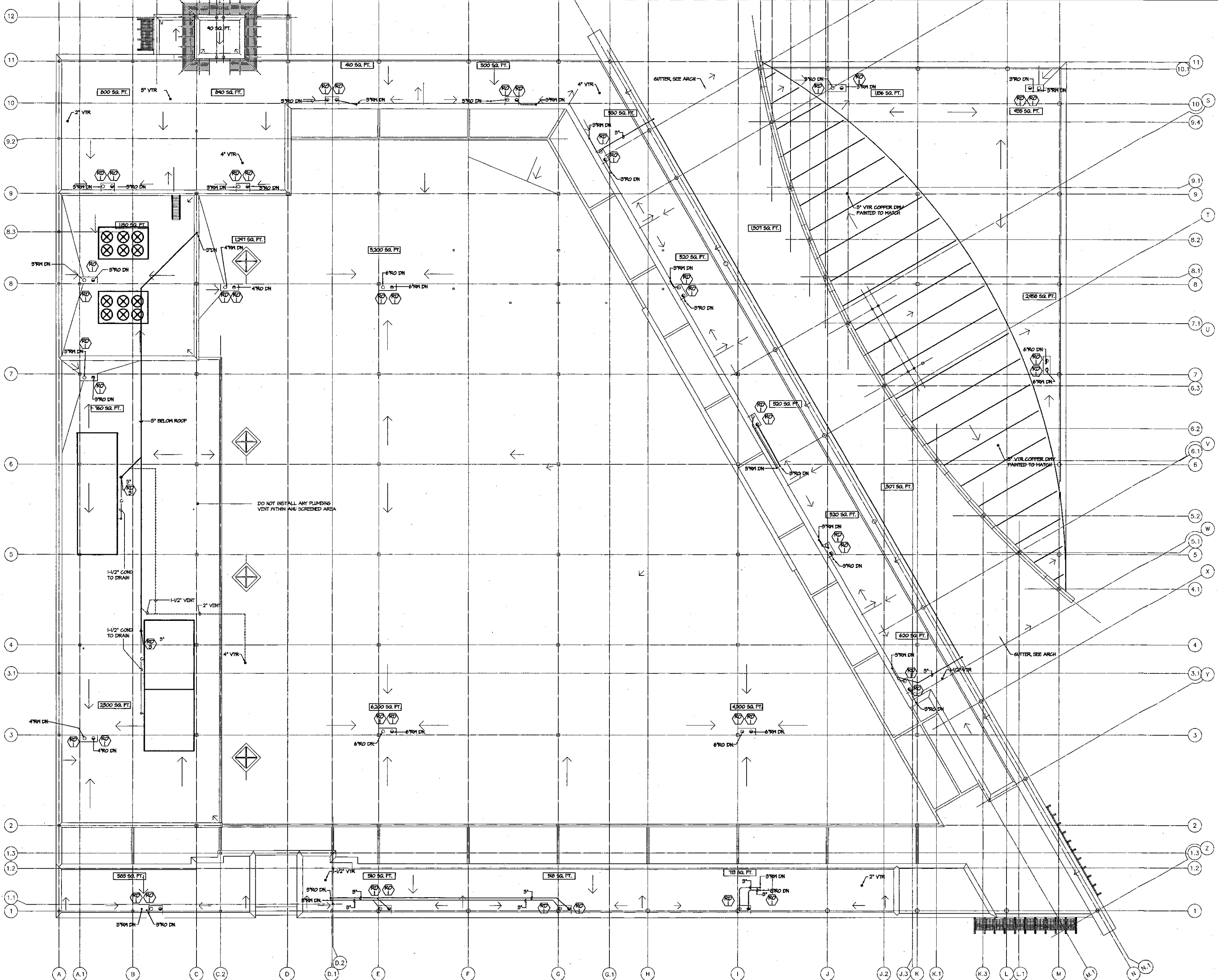


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APPL 03 - 104498
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DATE 11/01

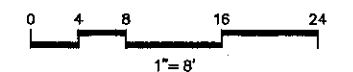
NO.	DESCRIPTION	DATE	BY

DRAWN HAM/DJ/FAR
CHECKED PWH/AM
DATE SEPT. 24, 2001
JOB NO. 9318
SHEET TITLE
THIRD FLOOR
PLUMBING PLAN

SHEET



PLUMBING ROOF PLAN

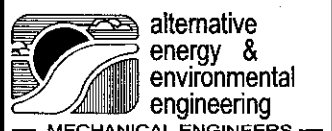


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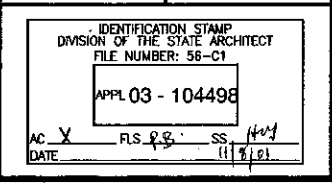
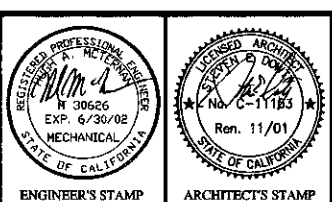
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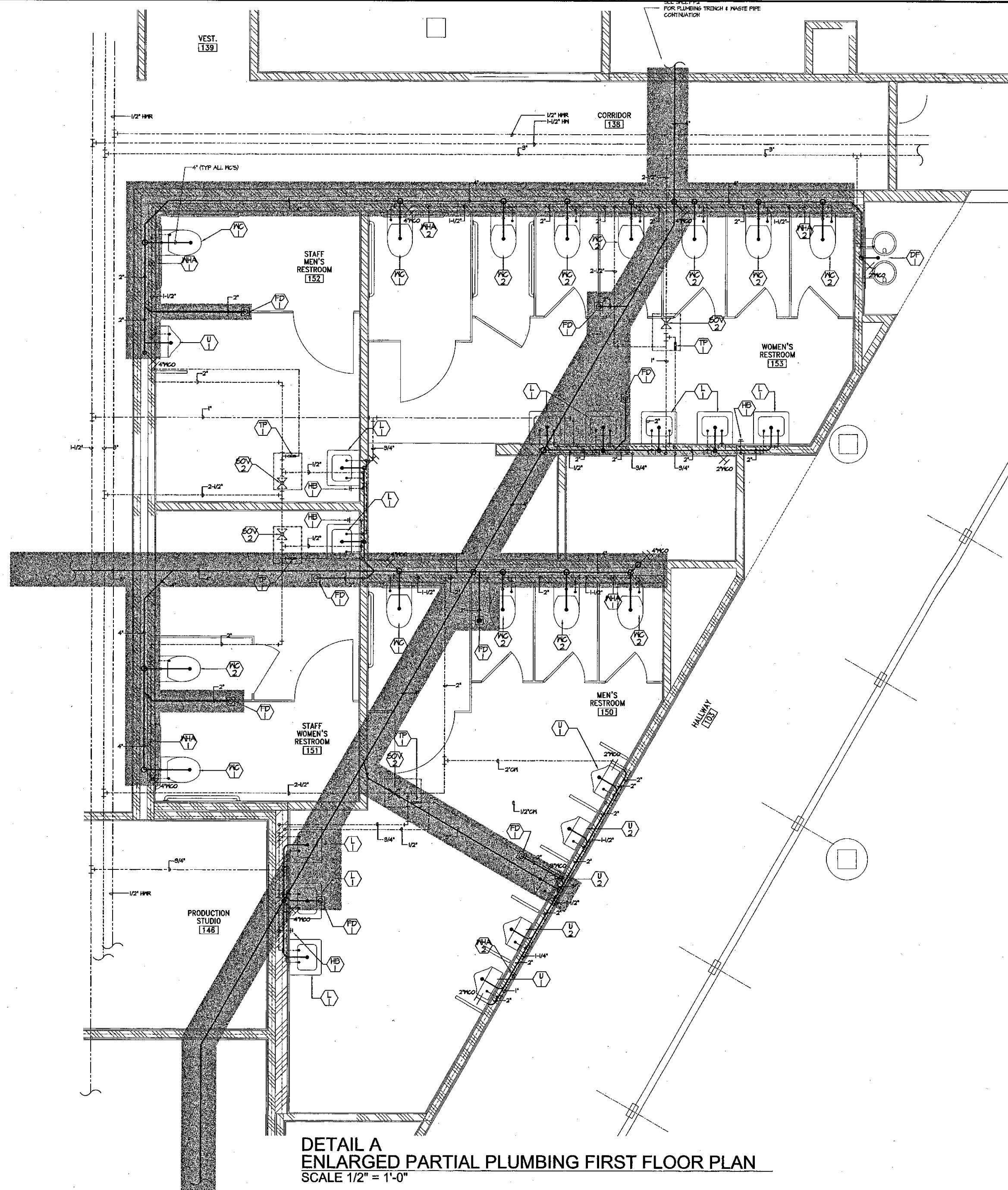
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DATE	SEPT. 24, 2001
JOB NO.	9318
SHEET TITLE	ROOF PLUMBING PLAN

SHEET



DETAIL A
ENLARGED PARTIAL PLUMBING FIRST FLOOR PLAN
 SCALE 1/2" = 1'-0"



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 93101 805/963-1722

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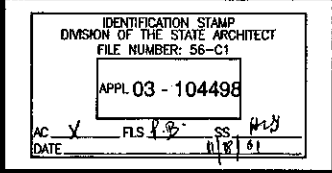
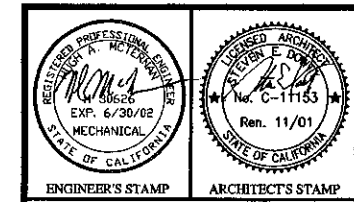
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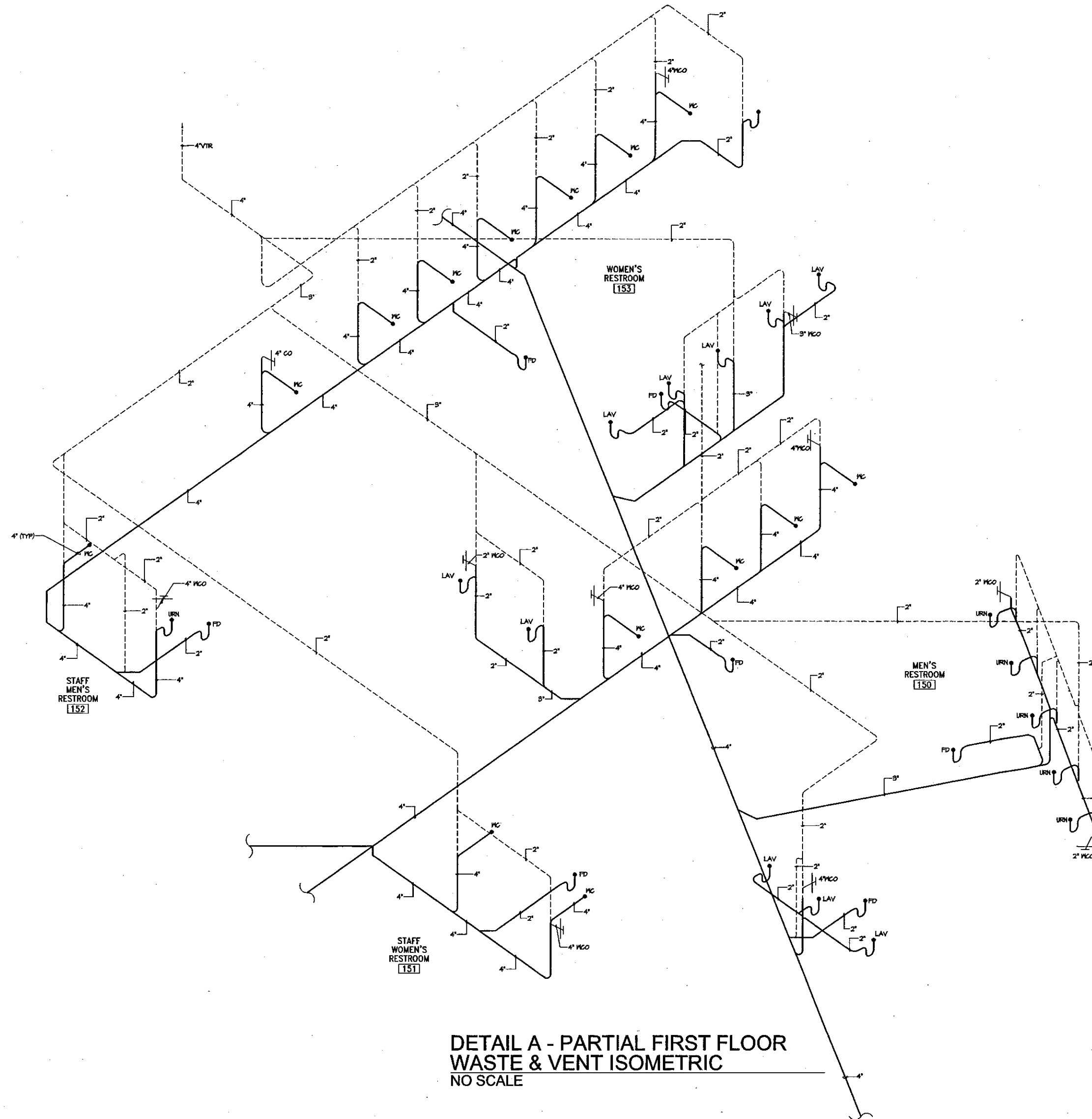


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 APR. 03 - 104498
 AC: V FLS: 2 SS: 418
 DATE: 01/01

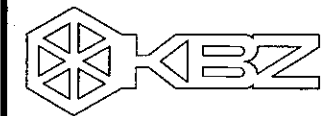
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 DATE: SEPT. 24, 2001
 JOB NO.: 931B
 SHEET TITLE:
 PARTIAL FIRST FLOOR PLUMBING PLAN

SHEET
P-6



DETAIL A - PARTIAL FIRST FLOOR
WASTE & VENT ISOMETRIC
NO SCALE



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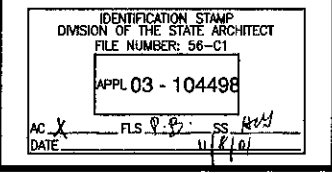
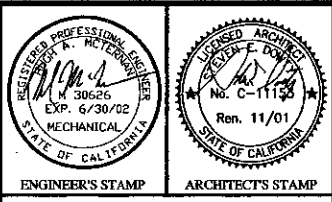
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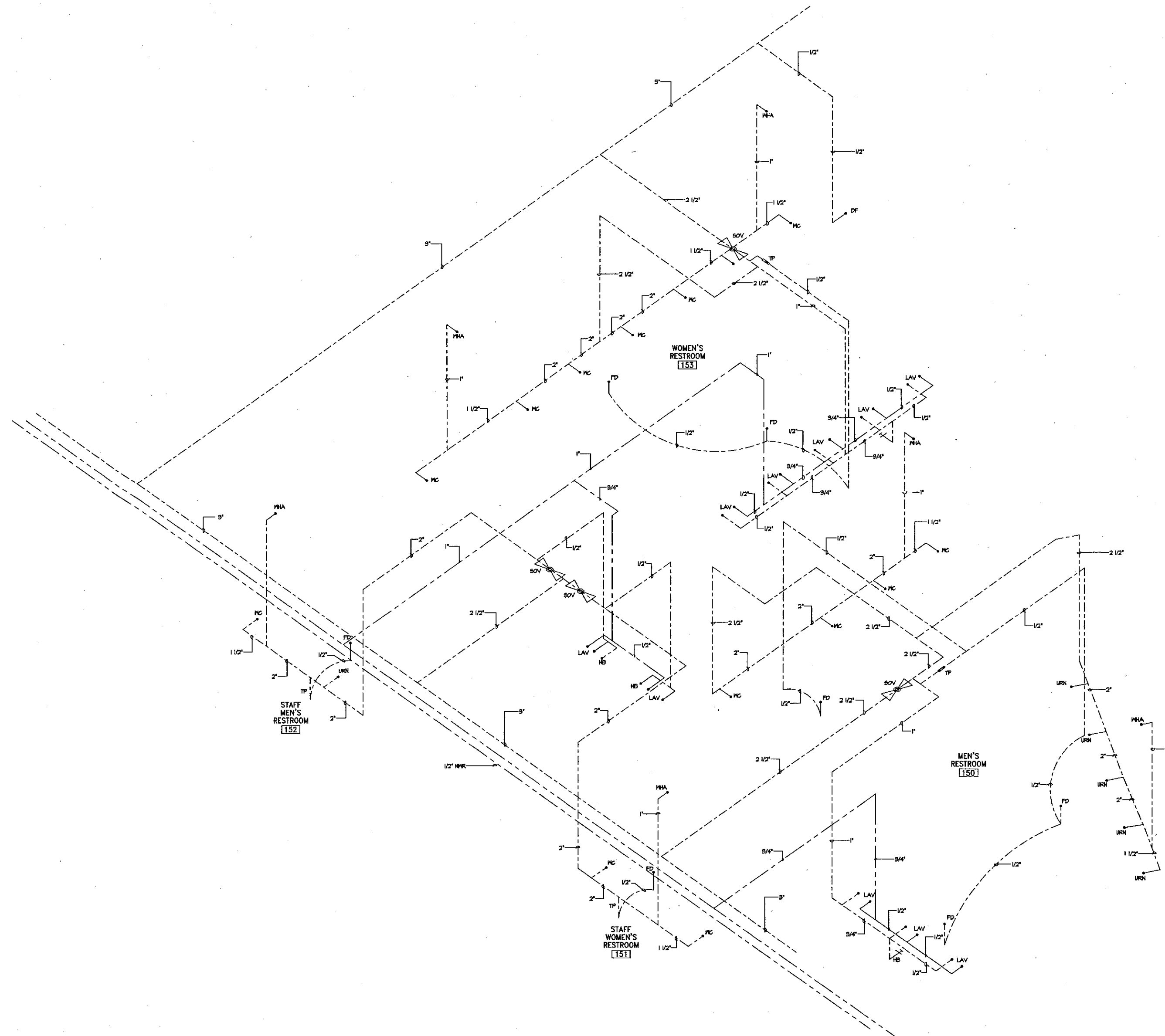
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NO.	DESCRIPTION	DATE	BY

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CHECKED: FW/HAM
DATE: SEPT. 24, 2001
JOB NO.: 9316
SHEET TITLE:
PARTIAL FIRST FLOOR
WASTE & VENT ISOMETRIC



**DETAIL A - PARTIAL FIRST FLOOR
HOT & COLD WATER ISOMETRIC**
SCALE 1/2" = 1'-0"



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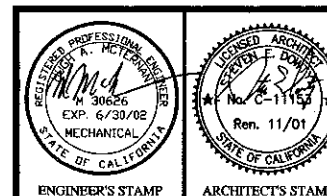
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APPL 03 - 104498
DATE: APR 24 2001

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DATE: SEPT. 24, 2001
JOB NO.: 9316
SHEET TITLE:
PARTIAL FIRST FLOOR
HOT & COLD WATER
ISOMETRIC



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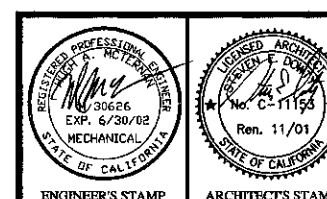
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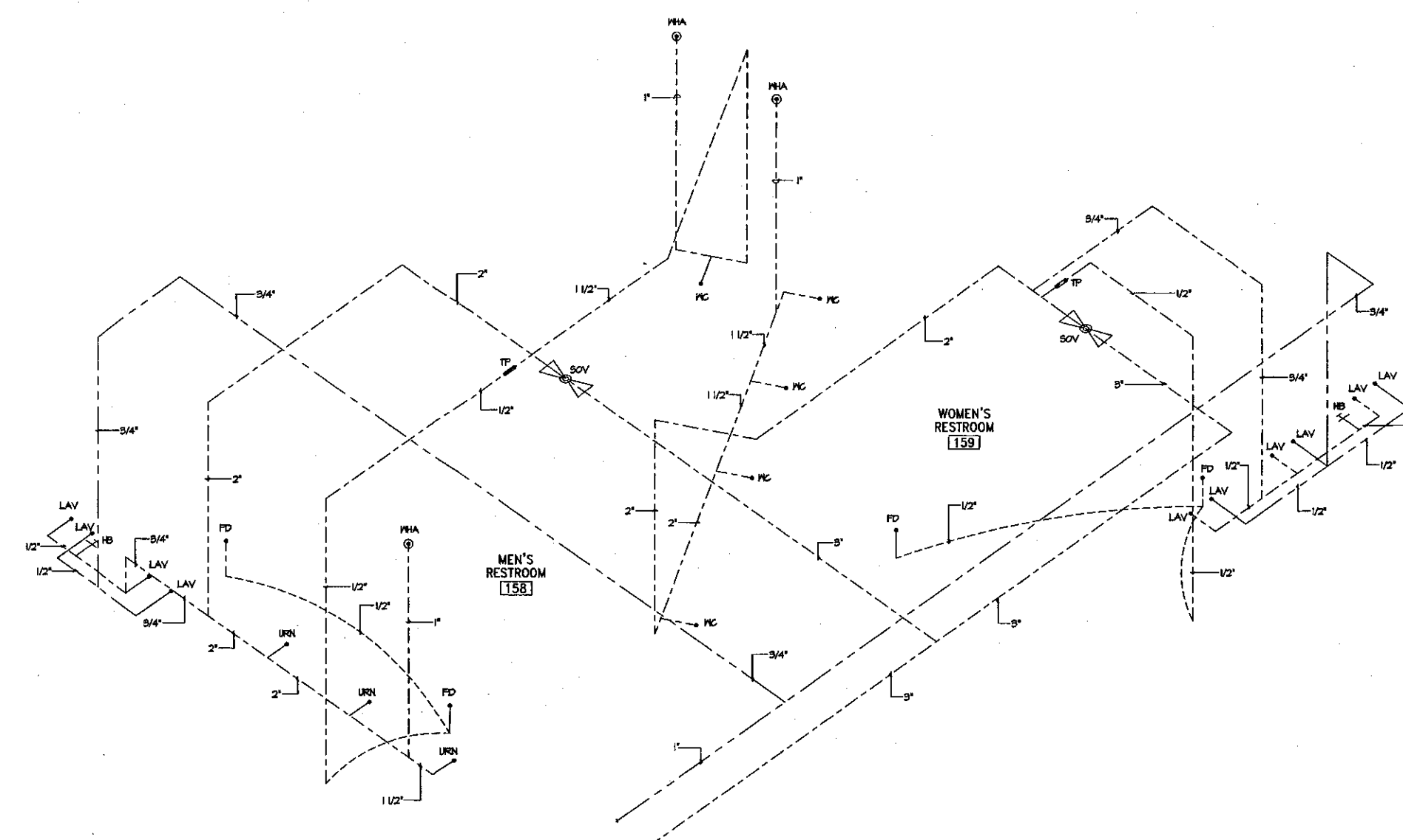
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APR 03 - 104498
DATE: _____

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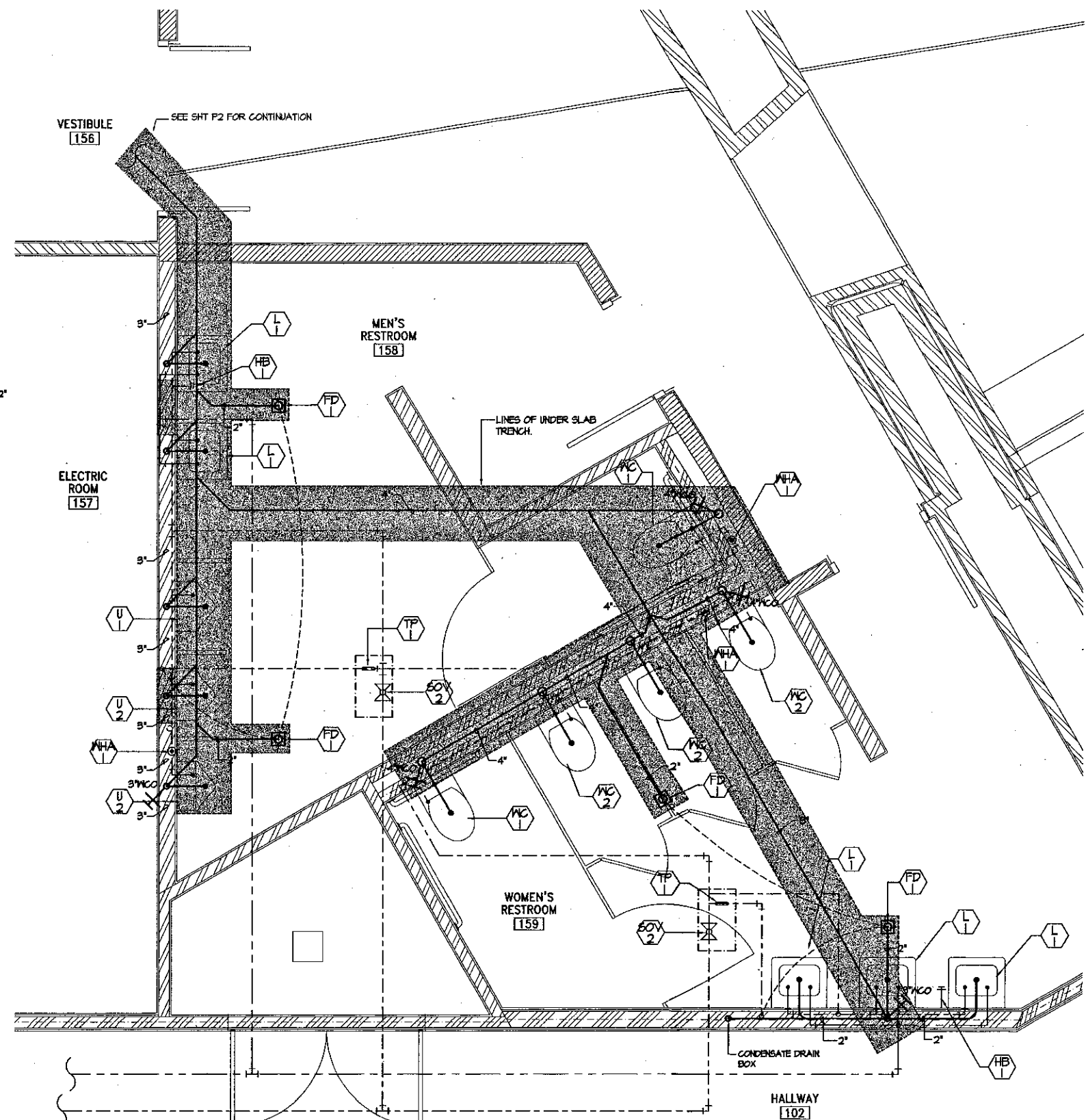
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CHECKED: PWH/HAM
DATE: SEPT. 24, 2001
JOB NO.: 9316

PARTIAL FIRST FLOOR
PLAN & ISOMETRICS

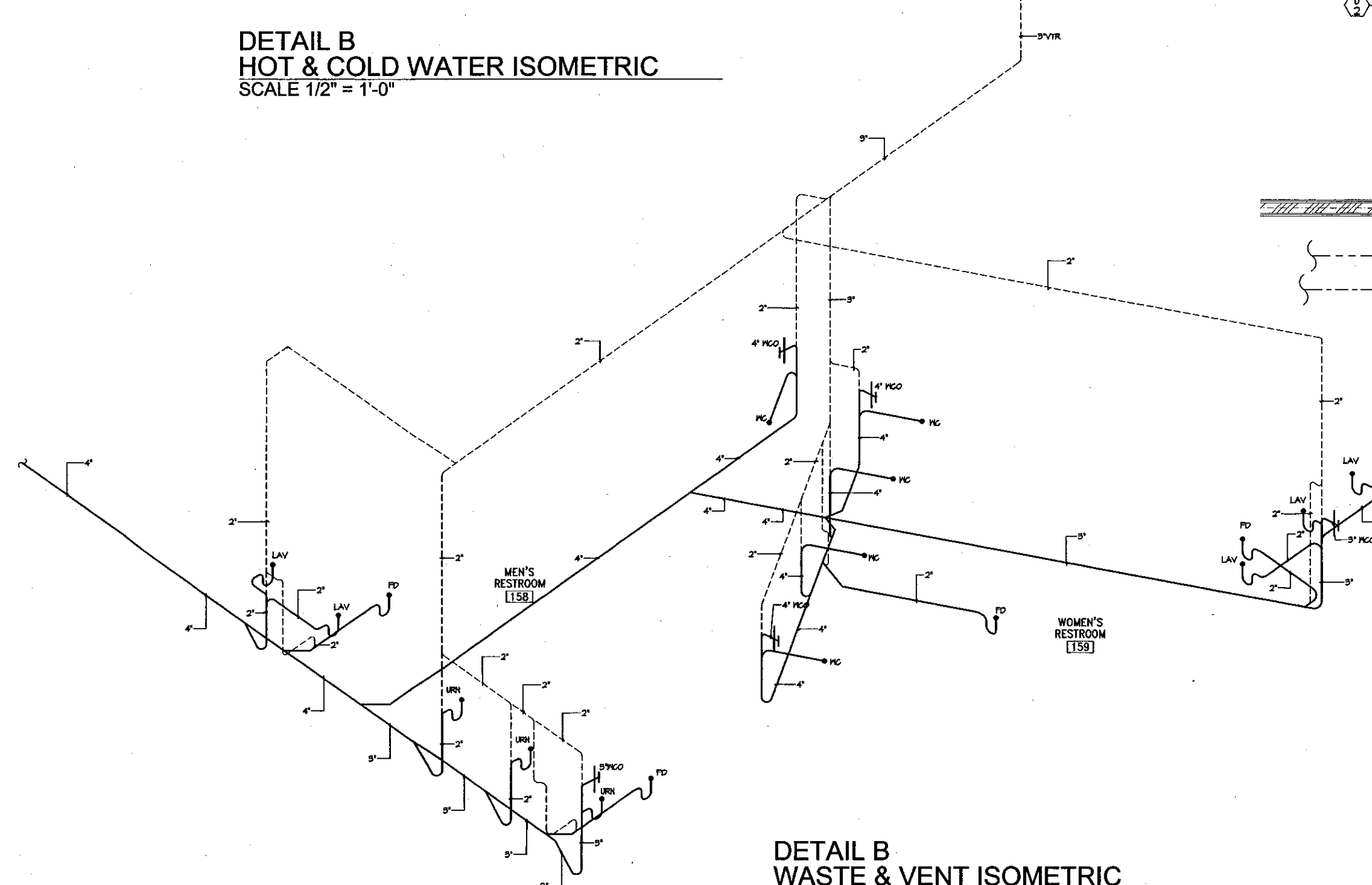
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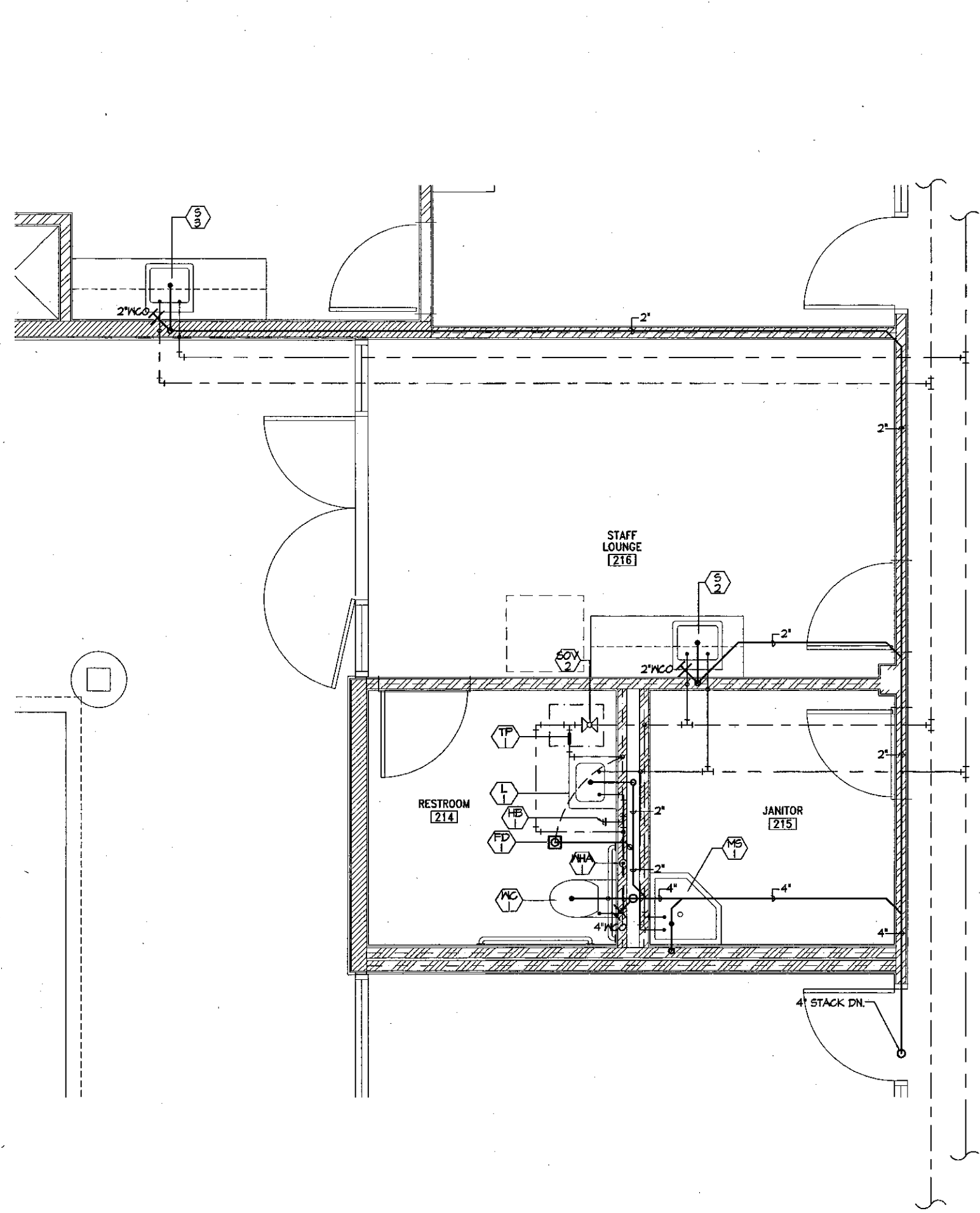
**DETAIL B
HOT & COLD WATER ISOMETRIC**
SCALE 1/2" = 1'-0"



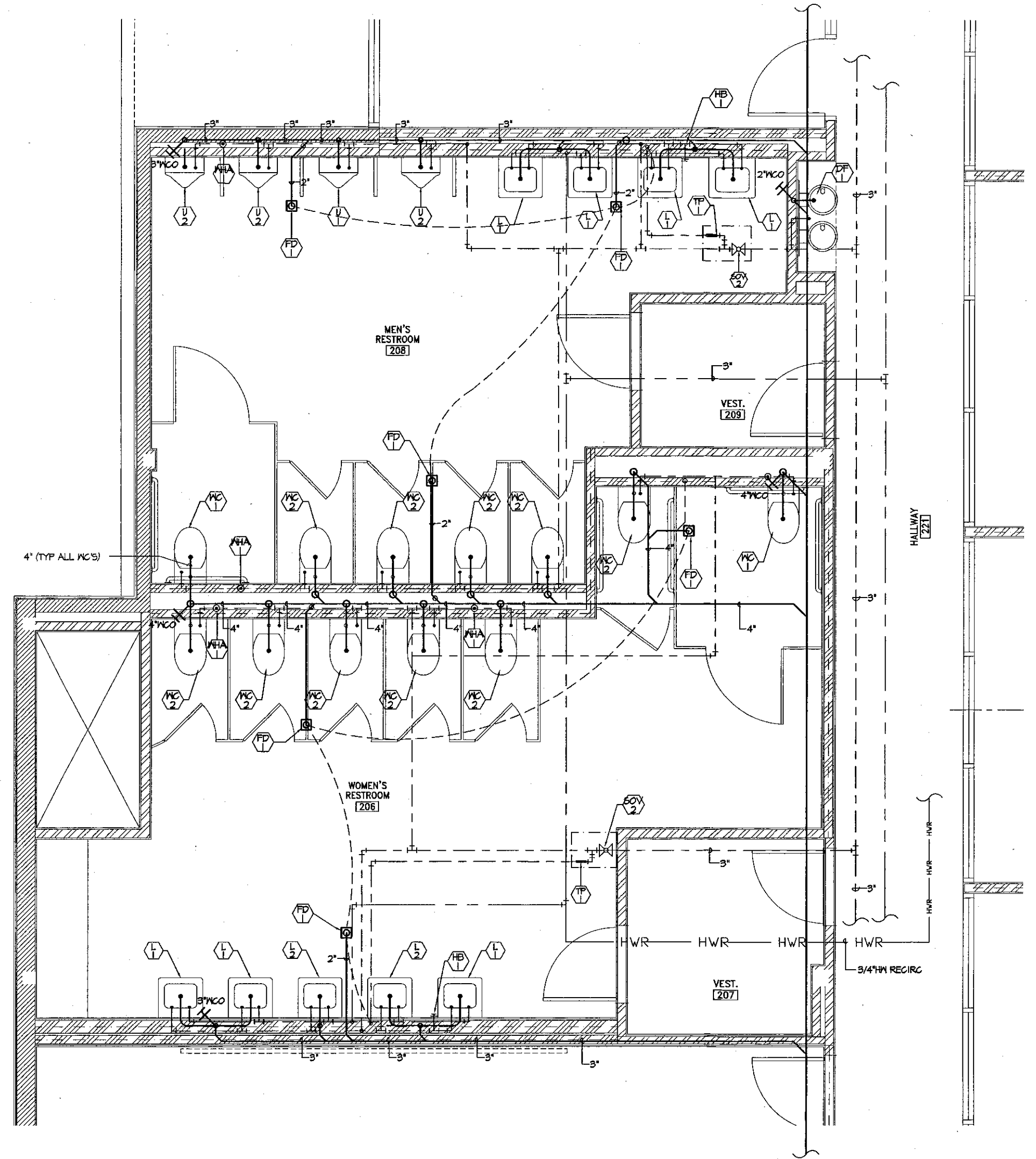
**DETAIL B
ENLARGED PARTIAL FIRST FLOOR PLUMBING PLAN**
SCALE 1/2" = 1'-0"



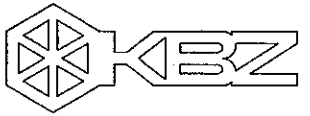
**DETAIL B
WASTE & VENT ISOMETRIC**
SCALE 1/2" = 1'-0"



**DETAIL D - PARTIAL SECOND FLOOR
ENLARGED PLUMBING PLAN**
SCALE 1/2" = 1'-0"



**DETAIL C
ENLARGED PARTIAL SECOND FLOOR PLUMBING PLAN**
SCALE 1/2" = 1'-0"



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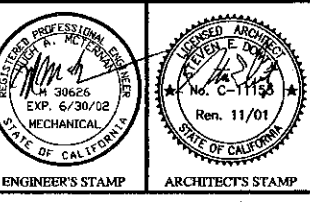
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FILE NUMBER: 55-51
APR 03 - 104498
DATE: 11/1/01

NO.	DESCRIPTION	DATE	BY

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CHECKED: PWH/HAM
DATE: SEPT. 24, 2001
JOB NO.: 9316

SHEET TITLE
PARTIAL SECOND FLOOR
PLUMBING PLAN

SHEET
P-10



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PROJECT DESIGNER

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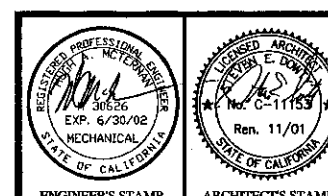
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Ventura, CA. 93003

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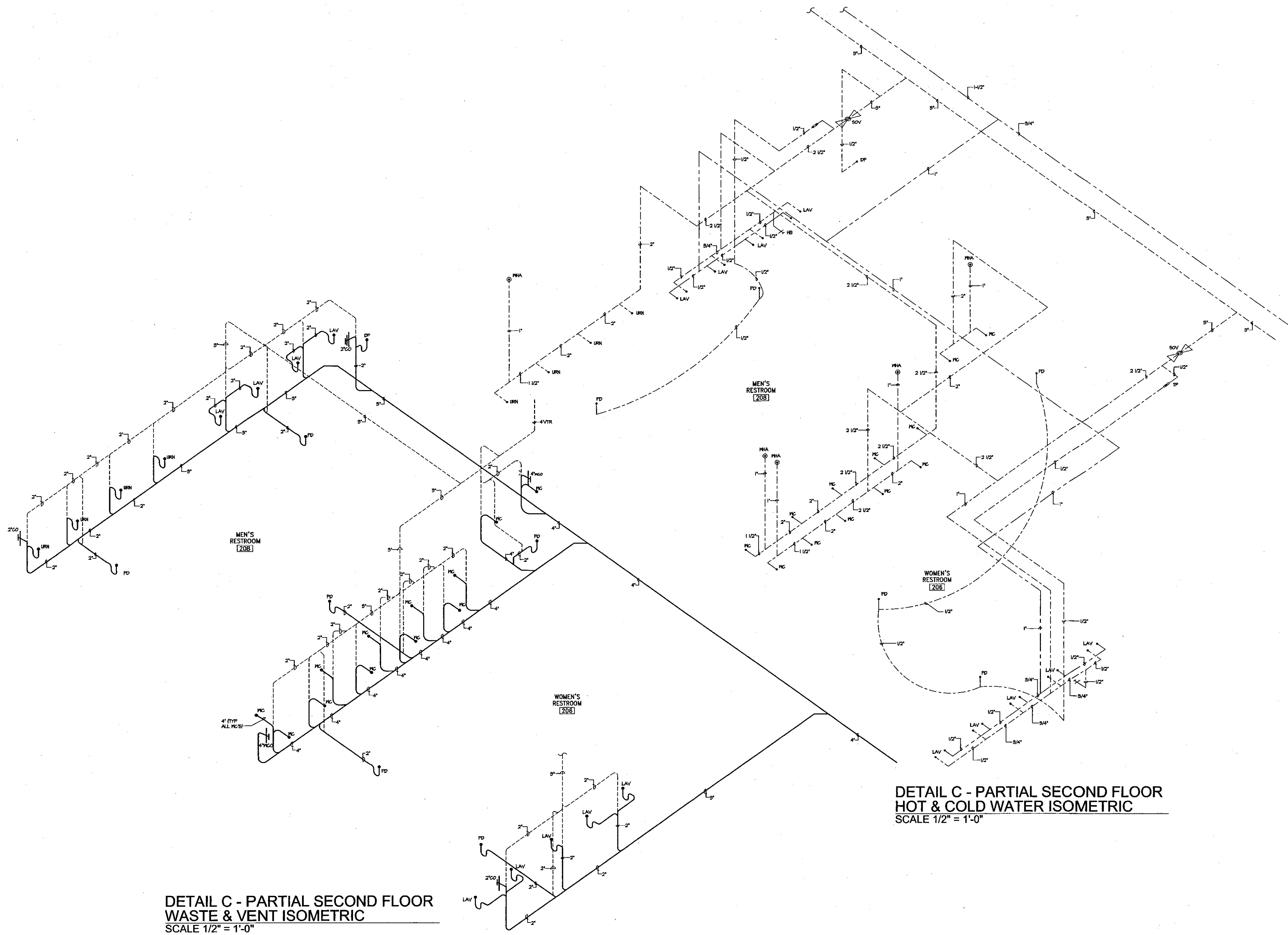


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FILE NUMBER: 66-01
APPL 03 - 104498
DATE: 11/8/01

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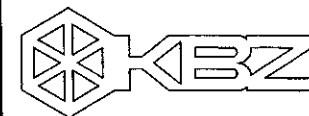
DESIGNED: HAM/DUE/MAR
CHECKED: PW/HAM
DATE: SEPT. 24, 2001
JOB NO.: 9318
SHEET TITLE:
PARTIAL SECOND FLOOR
WASTE & VENT
HOT & COLD
WATER PLUMBING
PLAN

SHEET



**DETAIL C - PARTIAL SECOND FLOOR
WASTE & VENT ISOMETRIC**
SCALE 1/2" = 1'-0"

**DETAIL C - PARTIAL SECOND FLOOR
HOT & COLD WATER ISOMETRIC**
SCALE 1/2" = 1'-0"



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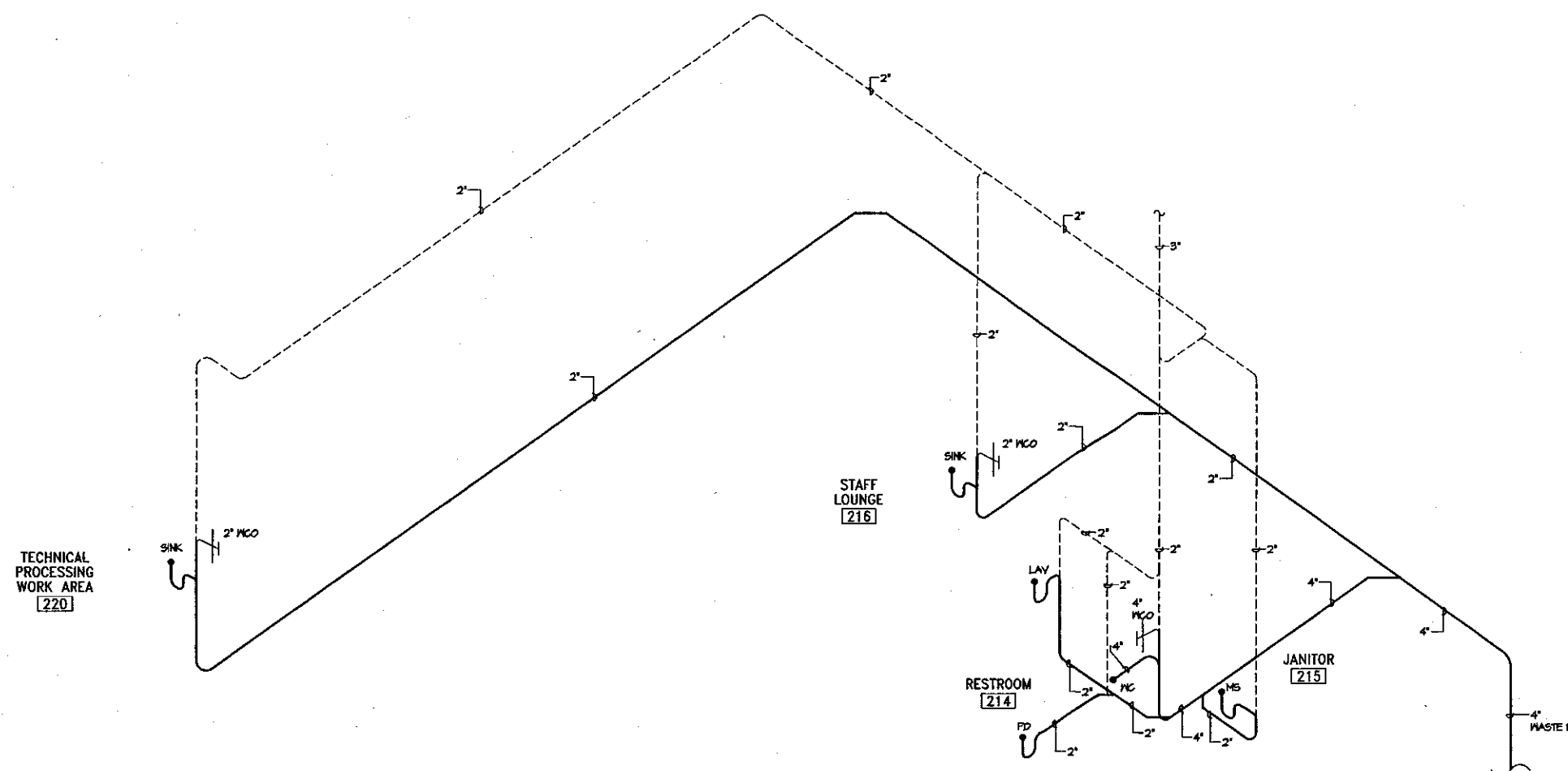
STEVE DOWTY, A.I.A.
PRINCIPAL IN CHARGE

THIERRY H. CASSAN
PROJECT DESIGNER

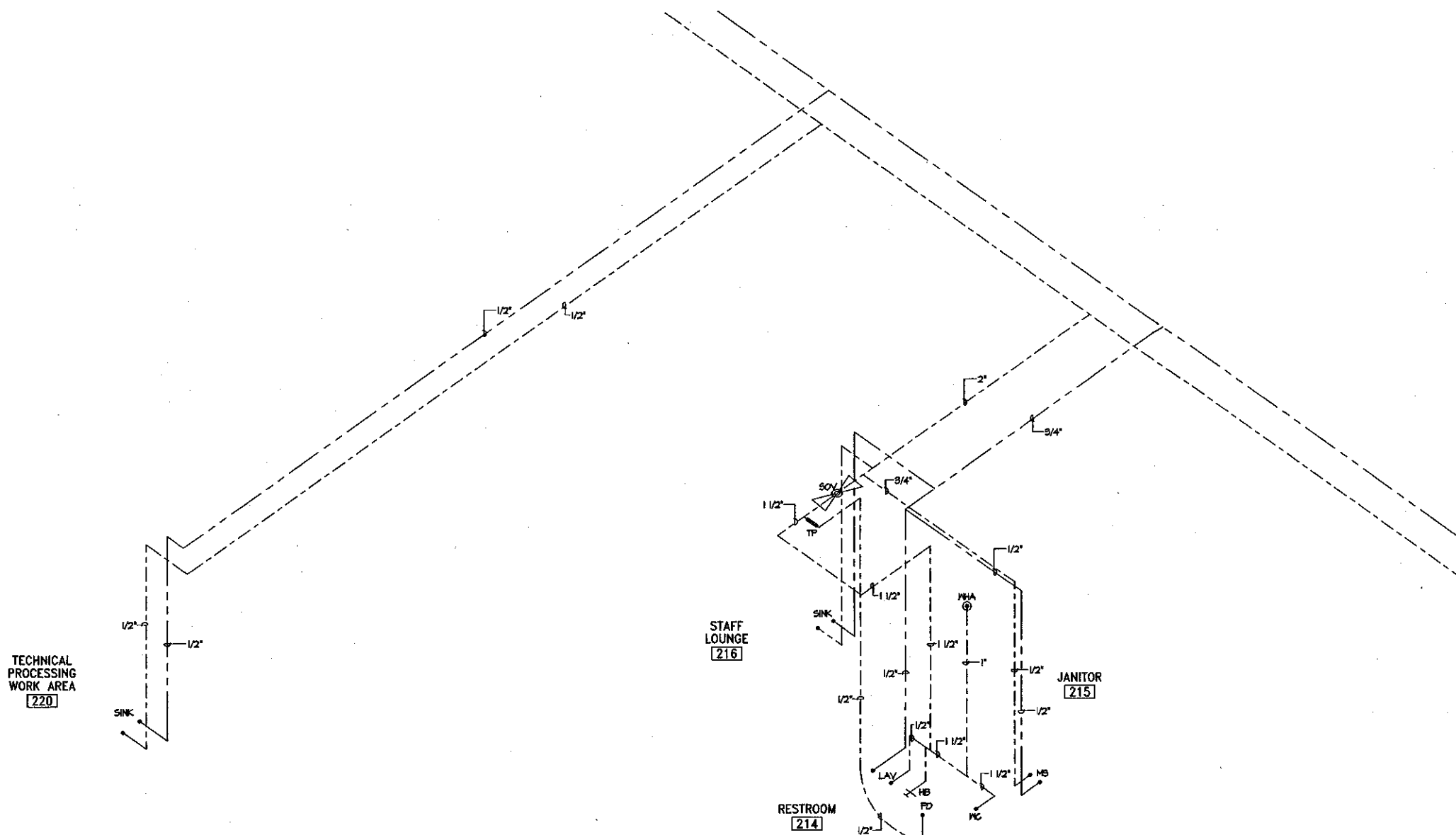
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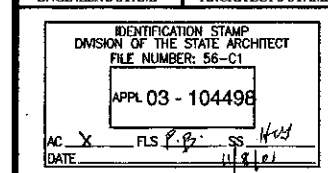
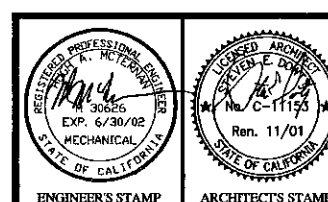
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LEARNING RESOURCES CENTER
Ventura County Community College District
4667 Telegraph Road
Ventura, CA 93003



DETAIL D - PARTIAL SECOND FLOOR
WASTE & VENT ISOMETRIC



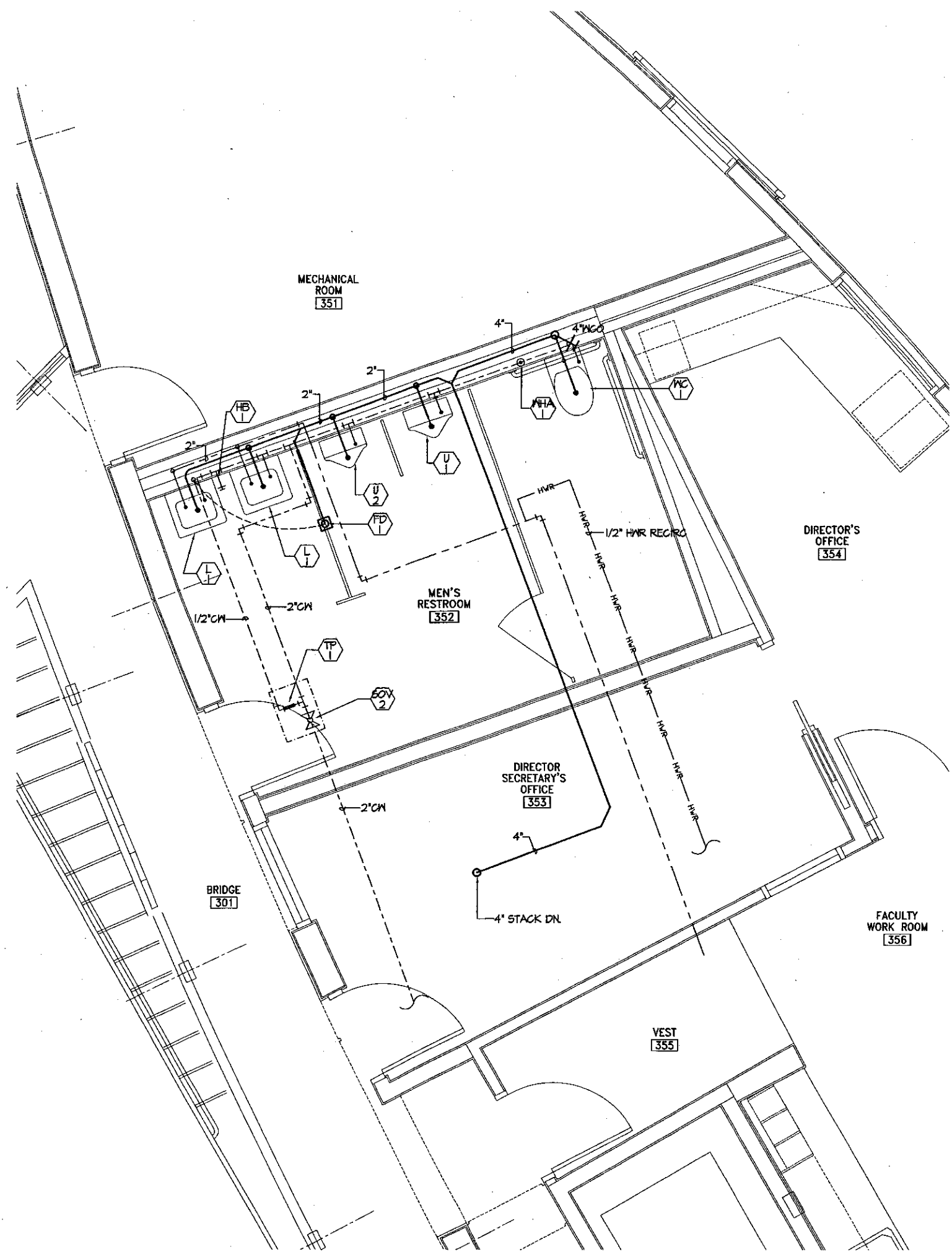
DETAIL D - PARTIAL SECOND FLOOR
HOT & COLD WATER ISOMETRIC



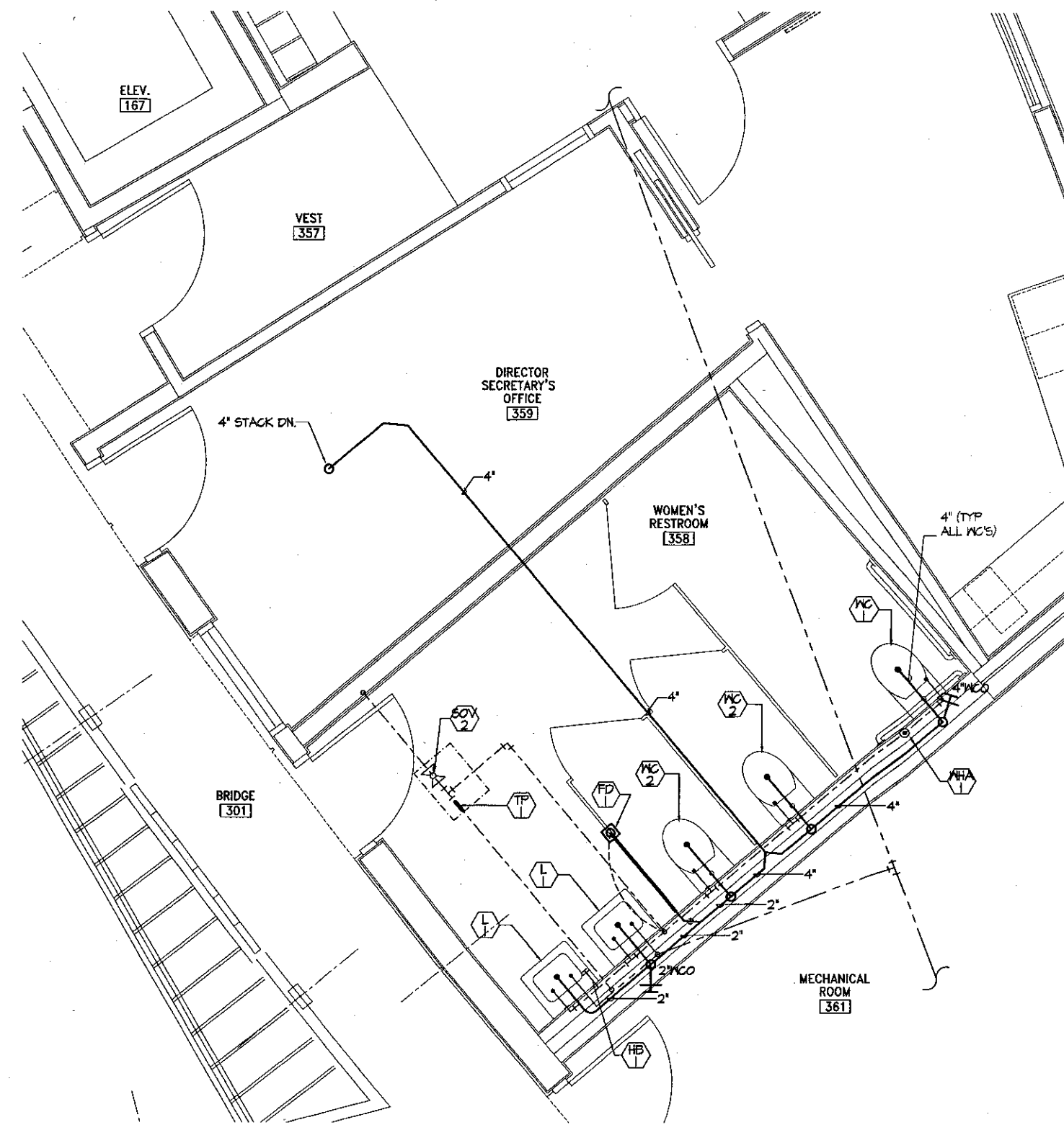
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APPL 03 - 104498			
AC	X	FLS	11/21/01
DATE			

NO.	DESCRIPTION	DATE	BY
REVISION			

DRAWN	HAM/DUF/MAR
CHECKED	PW/HAM
DATE	SEPT. 24, 2001
JOB NO.	9318
SHEET TITLE	PARTIAL SECOND FLOOR WASTE & VENT, HOT & COLD WATER PLUMBING ISOMETRIC
SHEET	P-12



DETAIL E - PARTIAL THIRD FLOOR
ENLARGED PLUMBING PLAN
SCALE 1/2" = 1'-0"



DETAIL E - PARTIAL THIRD FLOOR
ENLARGED PLUMBING PLAN
SCALE 1/2" = 1'-0"



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THIERRY H. CASSAN
PROJECT DESIGNER

All work, design, construction and plans indicated or represented by this drawing are subject to the approval of the appropriate authority. The contractor shall be responsible for obtaining all necessary permits, licenses and approvals for any work, and is responsible for the quality of the work. The contractor shall be responsible for the quality of the work. The contractor shall be responsible for the quality of the work.



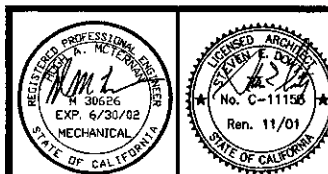
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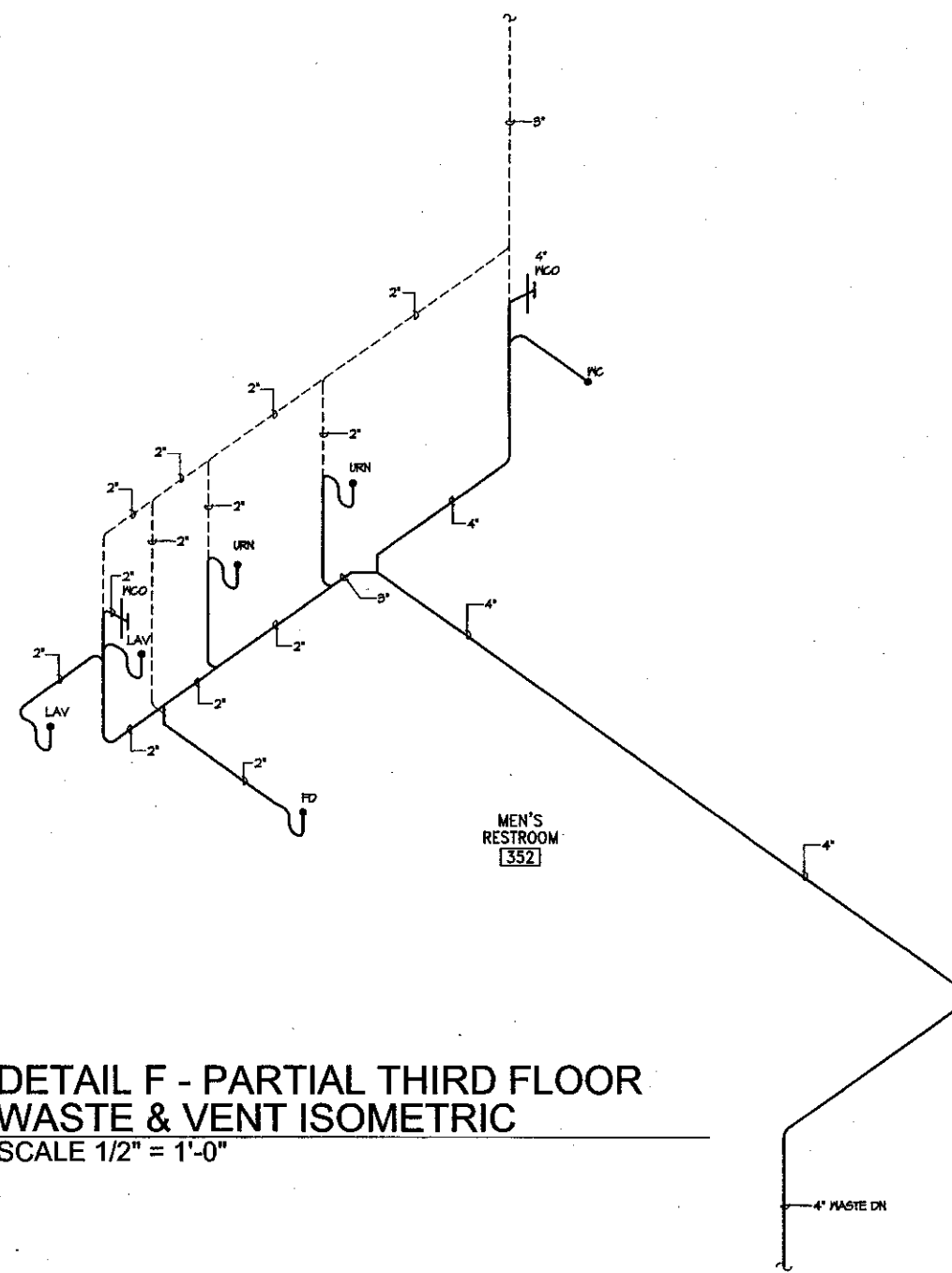
4667 Telegraph Road



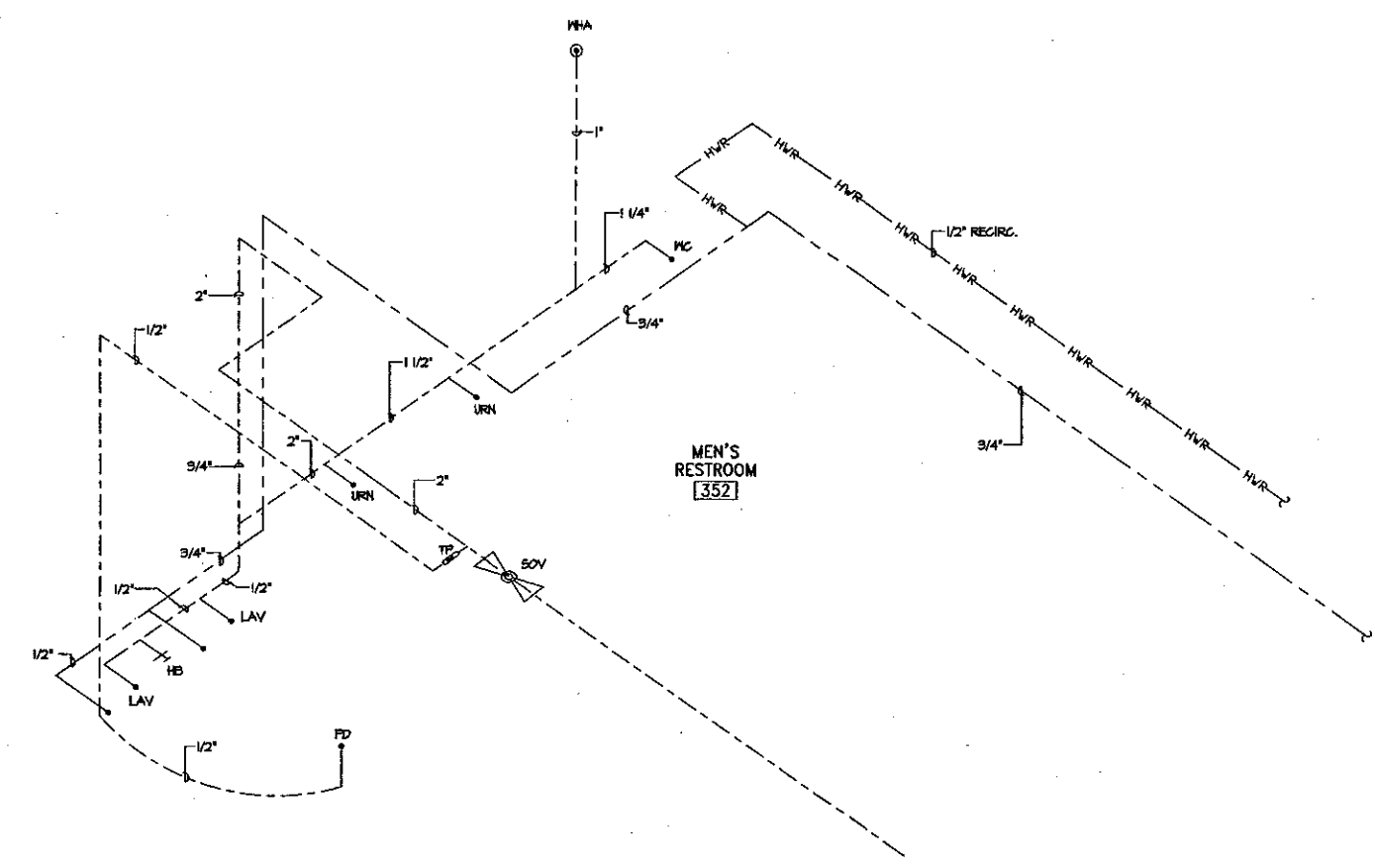
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IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
FILE NUMBER: 56-01
APPL 03 - 104496
DATE: 11/21/01

NO.	DESCRIPTION	DATE	BY
REVISION			

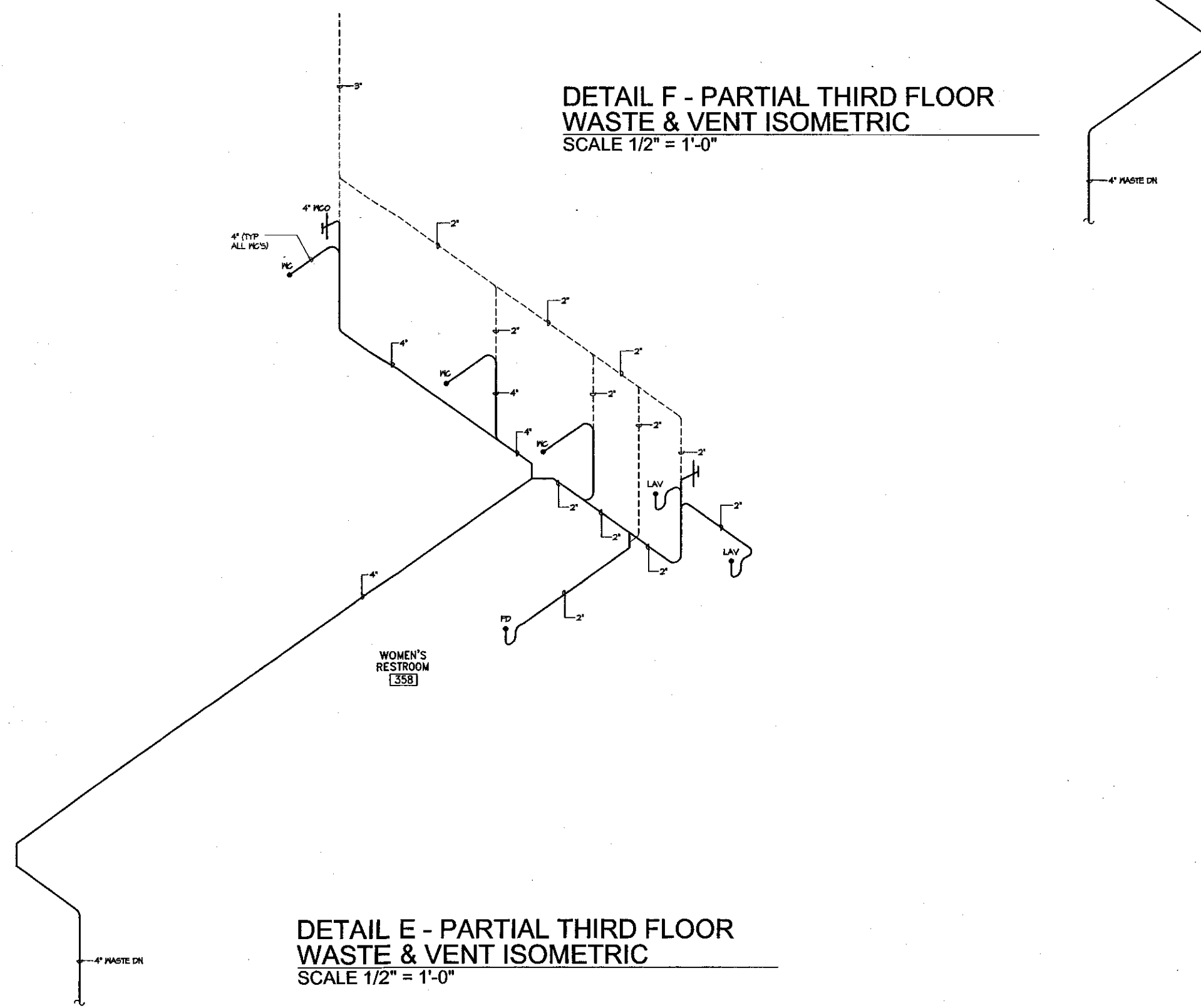
DRAWN	HAM/DJ/FMAR
CHECKED	PW/HAM
DATE	SEPT. 24, 2001
JOB NO.	9318
SHEET TITLE	
PARTIAL THIRD FLOOR ENLARGED PLUMBING PLANS	



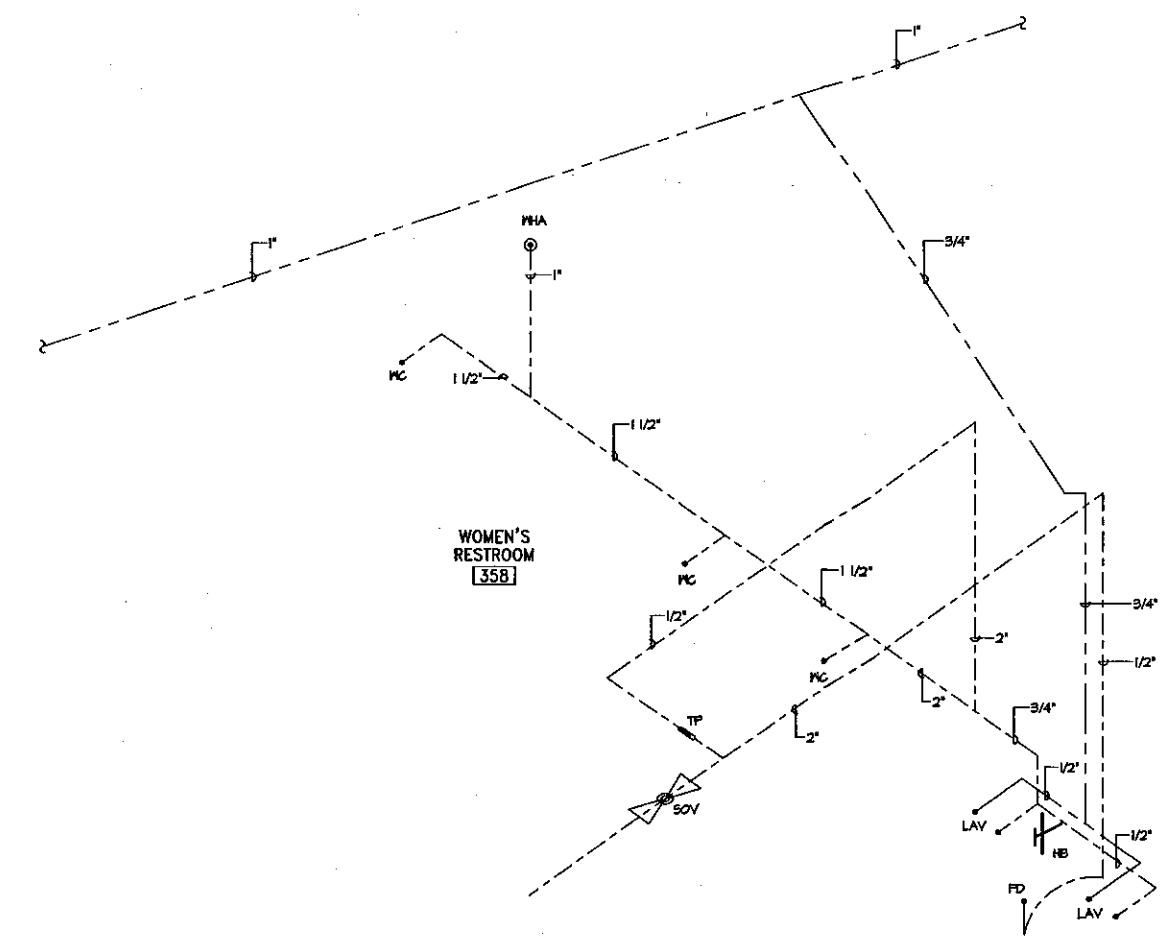
DETAIL F - PARTIAL THIRD FLOOR
WASTE & VENT ISOMETRIC
SCALE 1/2" = 1'-0"



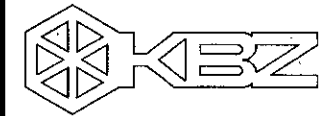
DETAIL F - PARTIAL THIRD FLOOR
HOT & COLD WATER ISOMETRIC
SCALE 1/2" = 1'-0"



DETAIL E - PARTIAL THIRD FLOOR
WASTE & VENT ISOMETRIC
SCALE 1/2" = 1'-0"



DETAIL E - PARTIAL THIRD FLOOR
HOT & COLD WATER ISOMETRIC
SCALE 1/2" = 1'-0"



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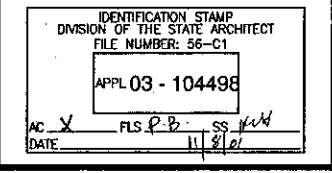
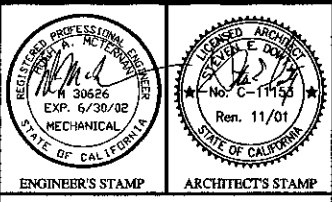
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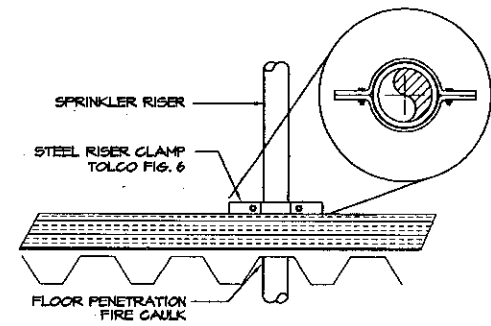
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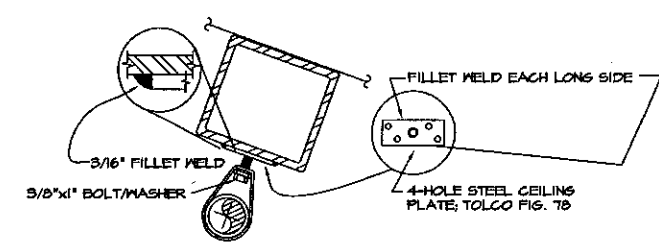


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FILE NUMBER: 55-C1		
APPL 03 - 104498		
AC	FLS P.D.	SS
DATE	11/2/01	

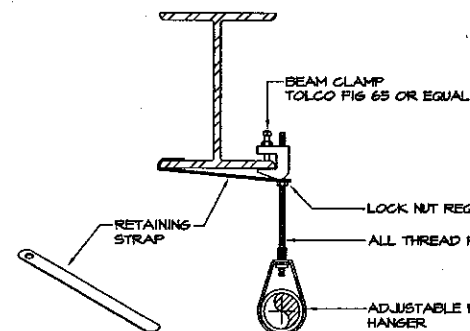
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CHECKED	PW/HAM
DATE	SEPT. 24, 2001
JOB NO.	931B
SHEET TITLE	
PARTIAL THIRD FLOOR WASTE & VENT, HOT & COLD WATER PLUMBING ISOMETRICS	
SHEET	



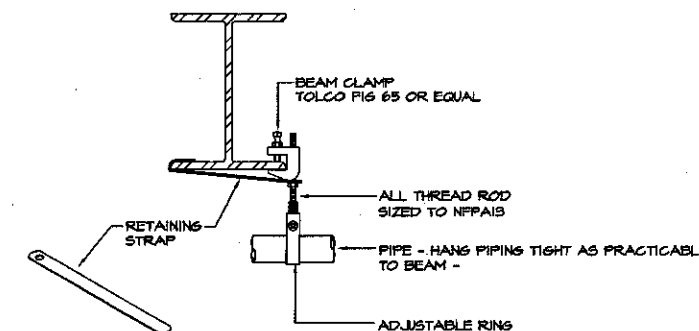
SPRINKLER PIPING RISER CLAMP DETAIL
NO SCALE



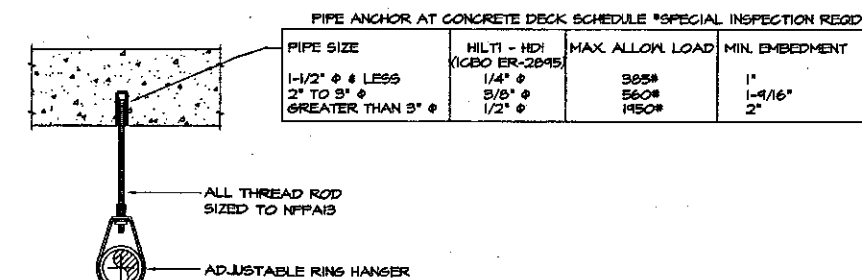
TUBE STEEL WELDED HANGING PLATE, BOLT, AND RING (PLATE WELDED TO STEEL BEAM)
NO SCALE



BOTTOM BEAM CLAMP, ROD, AND RING
NO SCALE



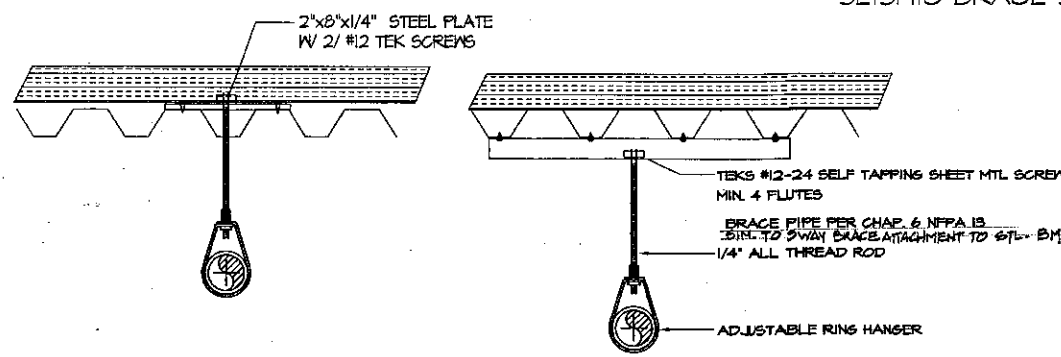
BOTTOM BEAM CLAMP, ROD, AND RING
NO SCALE



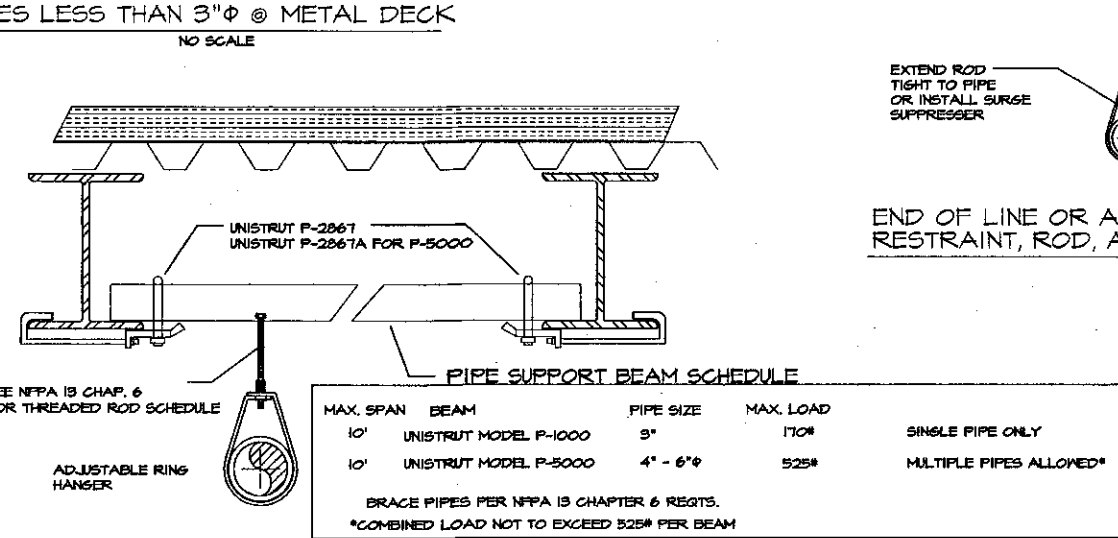
SELF DRILLING ANCHOR, ROD AND RING
NO SCALE

SWAY BRACE DETAIL	FASTENER TO STRUCTURE	MAX. BRACE LENGTH	ANGLE FROM VERTICAL DEGREES	STRUCTURE ATTACHMENT	SWAY BRACE FITTING	ORIENTATION TO BEAM	MAX. LOAD-LBS	TYPE
1	TOLCO FIG. 800	10'6"	30-44	TOLCO FIG. 909	TOLCO FIG. 2001	ALONG	532	LATERAL
2	TOLCO FIG. 800	10'6"	30-44	TOLCO FIG. 910	TOLCO FIG. 2001	ACROSS	1097	LATERAL
3	TOLCO FIG. 800	10'6"	30-44	TOLCO FIG. 911	TOLCO FIG. 4A	ACROSS	1507	LONGITUDINAL
4	TOLCO FIG. 800	10'6"	30-44	TOLCO FIG. 912	TOLCO FIG. 4A	ALONG	532	LONGITUDINAL
5	TOLCO FIG. 800	9'0"	45-59	TOLCO FIG. 913	TOLCO FIG. 2001	ALONG	894	LATERAL
6	TOLCO FIG. 800	9'0"	45-59	TOLCO FIG. 914	TOLCO FIG. 2001	ACROSS	1425	LATERAL
7	TOLCO FIG. 800	9'0"	45-59	TOLCO FIG. 915	TOLCO FIG. 4A	ALONG	1067	LONGITUDINAL
8	TOLCO FIG. 800	9'0"	45-59	TOLCO FIG. 916	TOLCO FIG. 4A	ACROSS	894	LONGITUDINAL

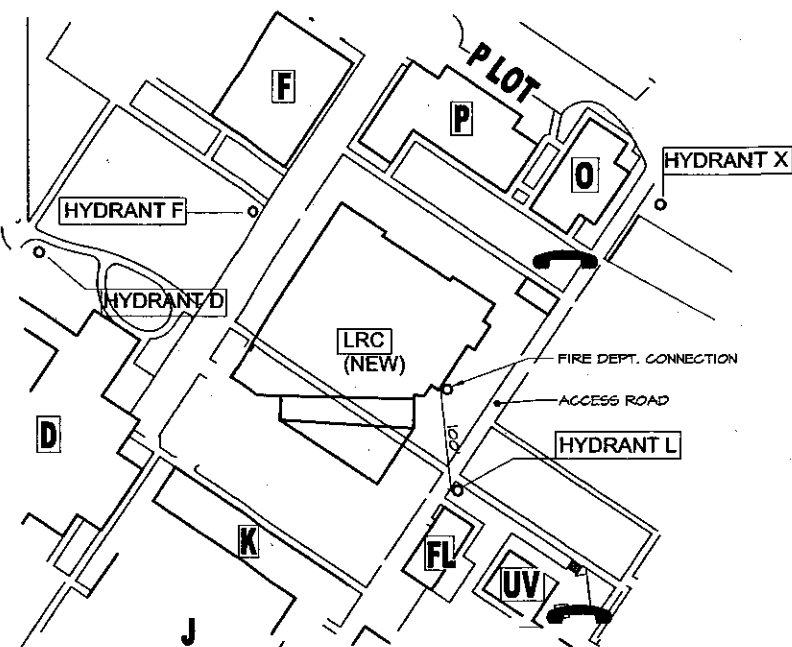
SEISMIC BRACE SCHEDULE



PIPE SUPPORT FOR PIPES LESS THAN 3" @ METAL DECK
NO SCALE



PIPE SUPPORT FOR PIPES GREATER THAN 2" @ METAL DECK
NO SCALE



SITE FIRE FLOW TEST LOCATIONS
SCALE: 1"=100'

FIRE HYDRANT FLOW TEST
CONRY FIRE PROTECTION INC
PO BOX 6002
VENTURA
805 650-1471
HYDRANT L STATIC PRESSURE - 65 PSI
THREE HYDRANTS FLOWING SIMULTANEOUSLY
TOTAL - 2965 GPM
RESIDUAL PRESSURE - 10 PSI
TWO HYDRANTS FLOWING SIMULTANEOUSLY
2048 GPM
RESIDUAL PRESSURE - 15 PSI
DATE OF TEST 2/11/00 2 PM

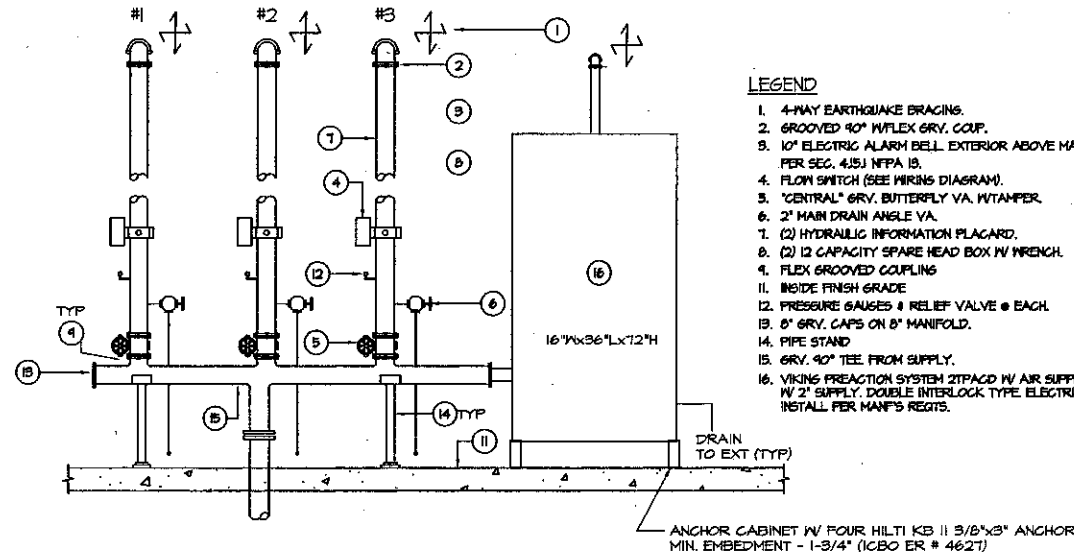
PERMANENT RISER TAG
INSTALL PER NFPA 85 CHAPTER 10-5

PREACTION SYSTEM
MOST REMOTE AREA
ROOM 854
PREACTION
DEMAND - 80.6 GPM @ 21 PSI

1ST FLOOR RISER
MOST REMOTE AREA
ROOM 860 WEST
010/800 #
DEMAND - 250.6 GPM @ 35.63 PSI @ BAS1

2ND FLOOR RISER
MOST REMOTE AREA
ROOM 202A
010/800 #
DEMAND - 408.2 GPM @ 36.62 PSI @ BAS2

3RD FLOOR RISER
MOST REMOTE AREA
LOBBY 101 ROOM #
010/800 #
DEMAND - 401.84 GPM @ 40.2 PSI @ BAS3



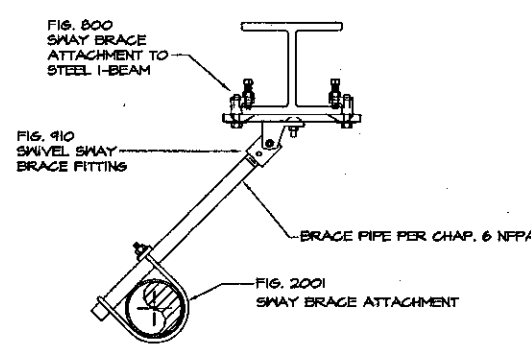
WET SYSTEM MANIFOLD
NO SCALE

INSTALLATION NOTES

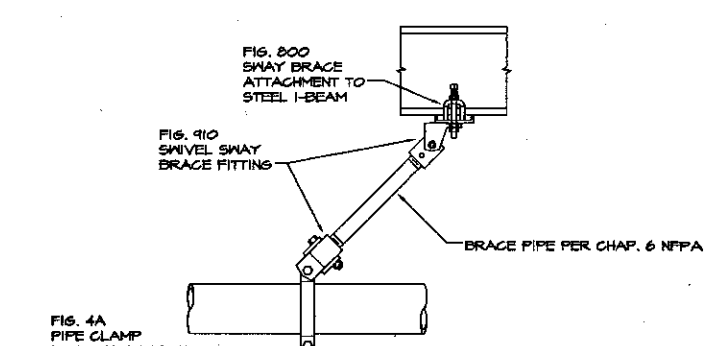
- INSTALL SYSTEM PER 1946 NFPA IS.
- MATERIALS & EQUIPMENT SHALL CONFORM TO UL/FM STANDARDS.
- INSTALL HANGERS PER 1946 NFPA IS.
- INSTALL SEISMIC BRACINGS ACCORDING TO THE ZONE 4 EARTHQUAKE HAZARD REQUIREMENTS.
- SEE BOOK SPECIFICATIONS FOR FURTHER DETAILS

GENERAL NOTES

BUILDING - THREE STORY, TYPE II, FIRE RATED CONSTRUCTION; STEEL STRUCTURE
OCCUPANCY - A21 & B
SPRINKLER AREAS
BUILDING SQ. FOOTAGE - 42,208 SQ. FT.
FIRST FLOOR RISER - 84,258 SQ. FT.
PREACTION NETWORK CONTROL ROOM - 490 SQ. FT.
SECOND FLOOR RISER - 30,483 SQ. FT.
THIRD FLOOR RISER - 15,242 SQ. FT.
HAZARD - LIGHT
STANDARD - NFPA 85 (1994 EDITION), 824 (1994 EDITION), 4291, 291-C (1991 EDITION)
TOTAL HEADS USED - 761



SWAY BRACE ATTACHMENT TO STEEL I-BEAM
SHOWN IN LATERAL BRACE APPLICATION
NO SCALE

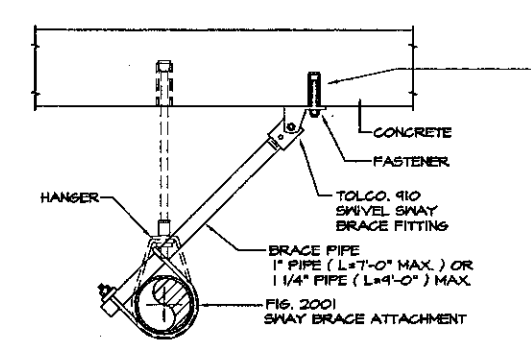


SWAY BRACE ATTACHMENT TO STEEL I-BEAM
SHOWN IN LONGITUDINAL BRACE APPLICATION
NO SCALE

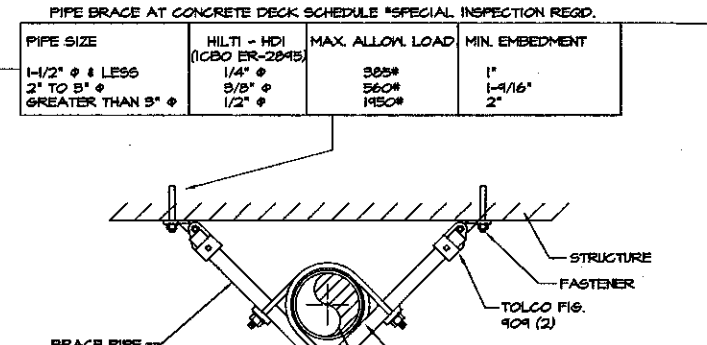
TYPE	FLG THICKNESS MAX.	DESIGN LOADS/LBS. ALONG BEAM	DESIGN LOADS/LBS. ACROSS BEAM
1	3/4"	1265	2,015
2	1 1/4"	1265	2,015

SIZE	FITS BEAM RANGE	DESIGN LOADS/LBS. ALONG BEAM	DESIGN LOADS/LBS. ACROSS BEAM
1	4" - 6"	1265	2,015
2	6" - 8"	1265	2,015
3	8" - 10"	1265	2,015
4	10" - 12"	1265	2,015
5	12" - 14"	1265	2,015
6	14" - 16"	1265	2,015
7	16" - 18"	1265	2,015

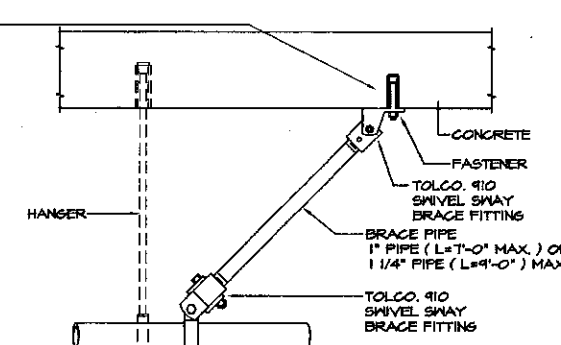
*MEETS OR EXCEEDS UL 203A TEST REQUIREMENTS



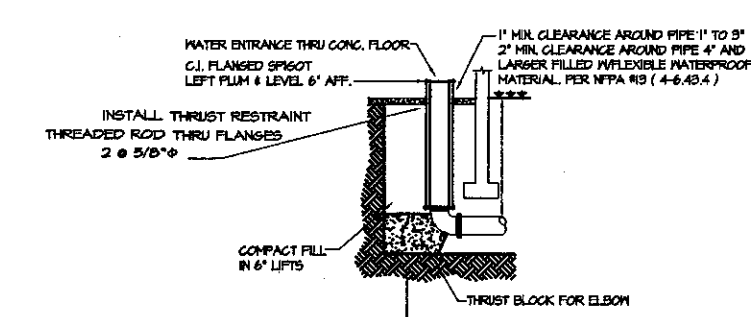
BRACE CONN. TO CONCRETE
LATERAL
NO SCALE



FAST CLAMP RISER BRACE
NO SCALE



BRACE CONN. TO CONCRETE
LONGITUDINAL
NO SCALE



UNDERGROUND FLOOR PENETRATION DETAIL
NO SCALE



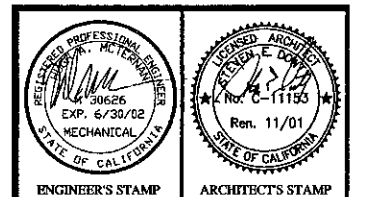
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805/963-1728

STEVE DOWTY, A.I.A.
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THIERRY H. CASSAN
PROJECT DESIGNER

alternative energy & environmental engineering
MECHANICAL ENGINEERS
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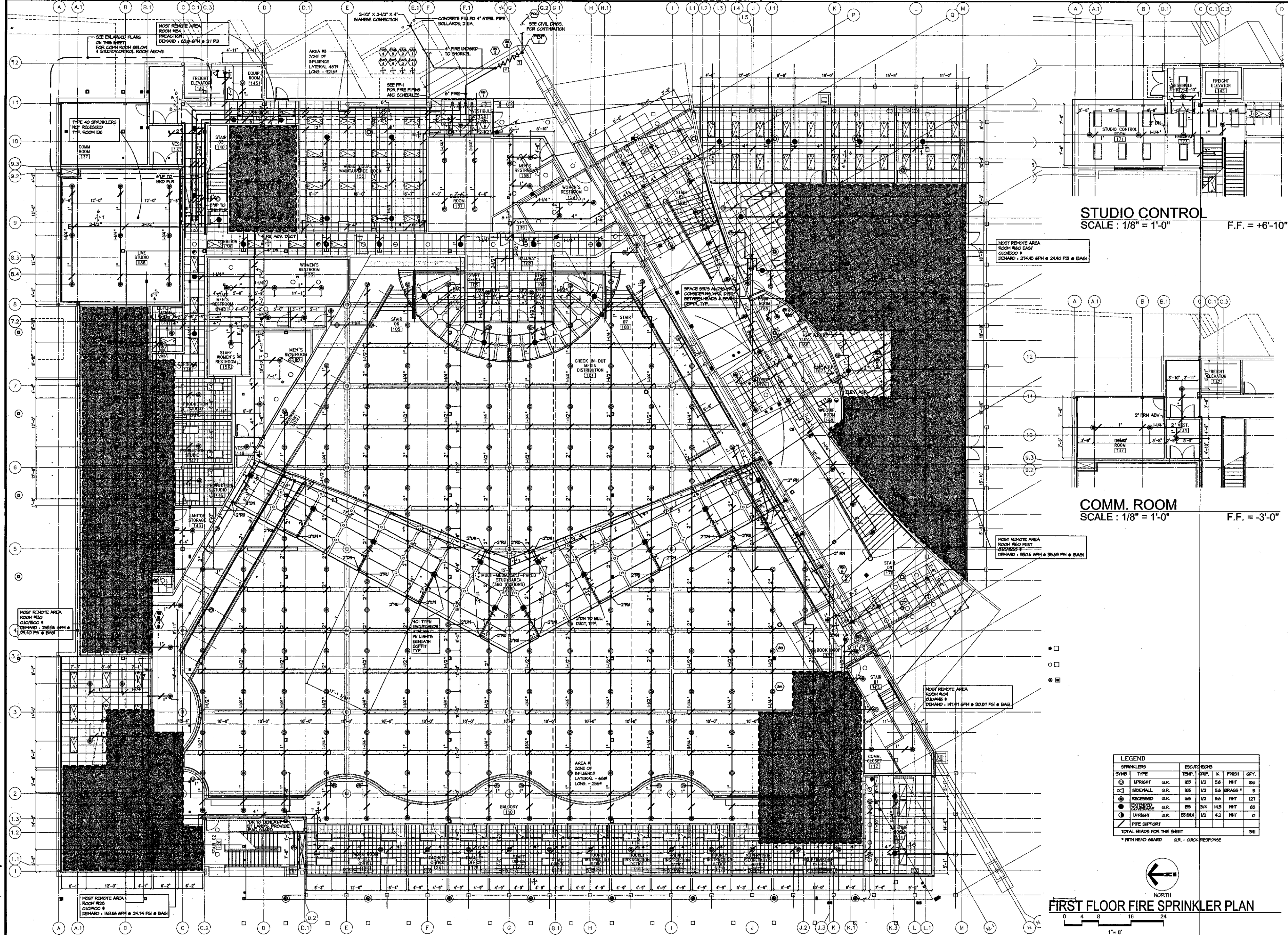
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Ventura, CA 93003
4667 Telegraph Road



IDENTIFICATION STAMP
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APPL 03 - 104498
DATE: 11/21/01

NO.	REVISION	DESCRIPTION	DATE	BY

DRAWN: HAM/DUF/MAR
CHECKED: PWH/AM
DATE: SEPT. 24, 2001
JOB NO.: 9318
SHEET TITLE:
FIRE SPRINKLERS DATA SHEET DETAILS



STUDIO CONTROL
SCALE: 1/8" = 1'-0" F.F. = +6'-10"

COMM. ROOM
SCALE: 1/8" = 1'-0" F.F. = -3'-0"

LEGEND

SPRINKLERS		ESCAPES		EQS		FRESH		QTY.	
SYMB	TYPE	TEMP.	DRGT.	K	FRESH	QTY.	SYMB	TYPE	QTY.
⊙	UPRIGHT	G.R.	M5	1/2	5.6	PH	186		
⊙	SIDEWALL	G.R.	M5	1/2	5.6	BRASS *	3		
⊙	RECESSED	G.R.	M5	1/2	5.6	PH	127		
⊙	RECESSED	G.R.	ES	3/4	14.5	PH	65		
⊙	UPRIGHT	G.R.	ES	1/2	4.2	PH	0		
—	PIPE SUPPORT								
TOTAL HEADS FOR THIS SHEET									
* WITH HEAD GUARD G.R. - QUICK RESPONSE									

FIRST FLOOR FIRE SPRINKLER PLAN
1" = 8'



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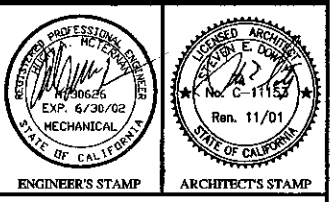
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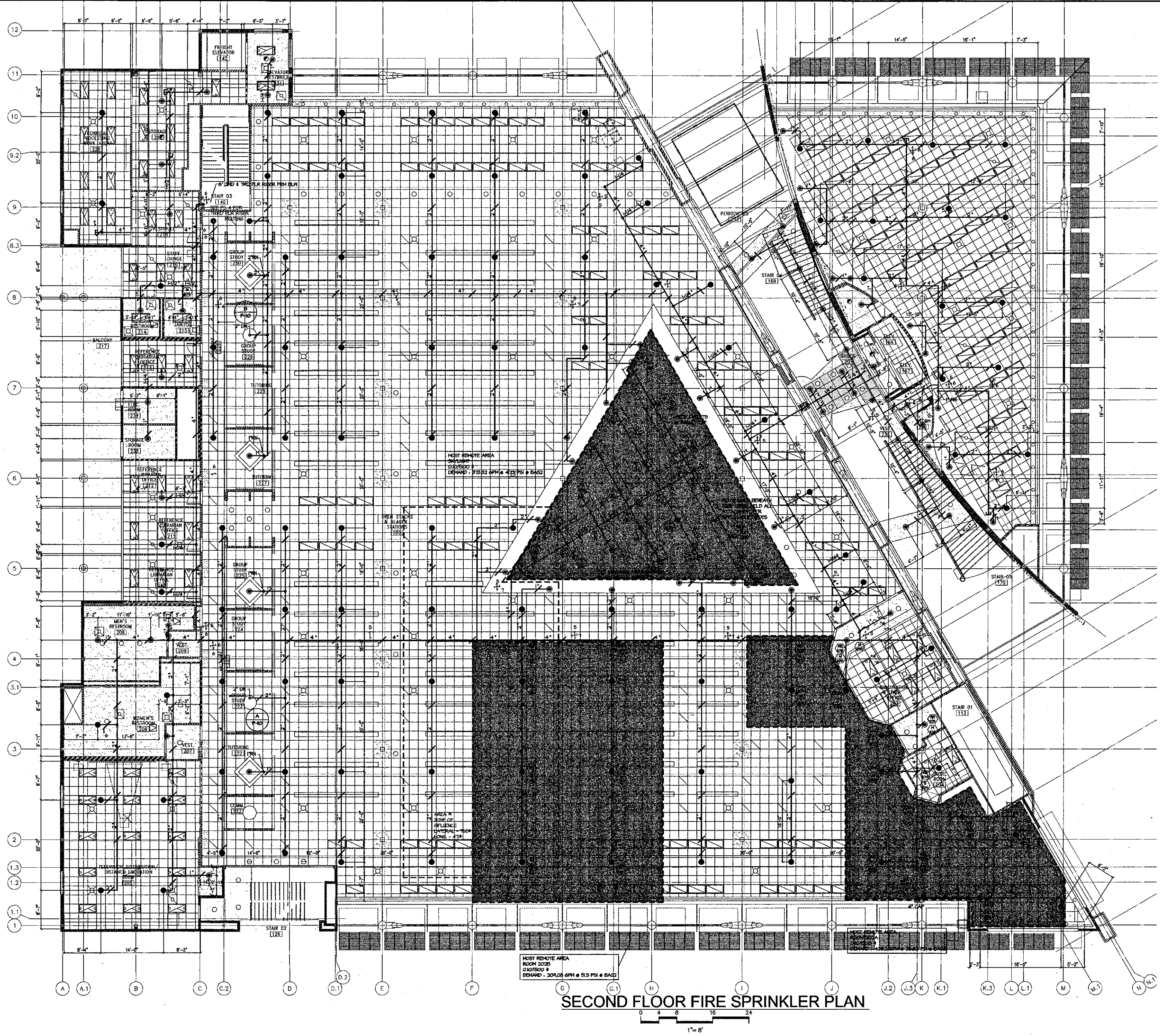


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APPL 03 - 104498
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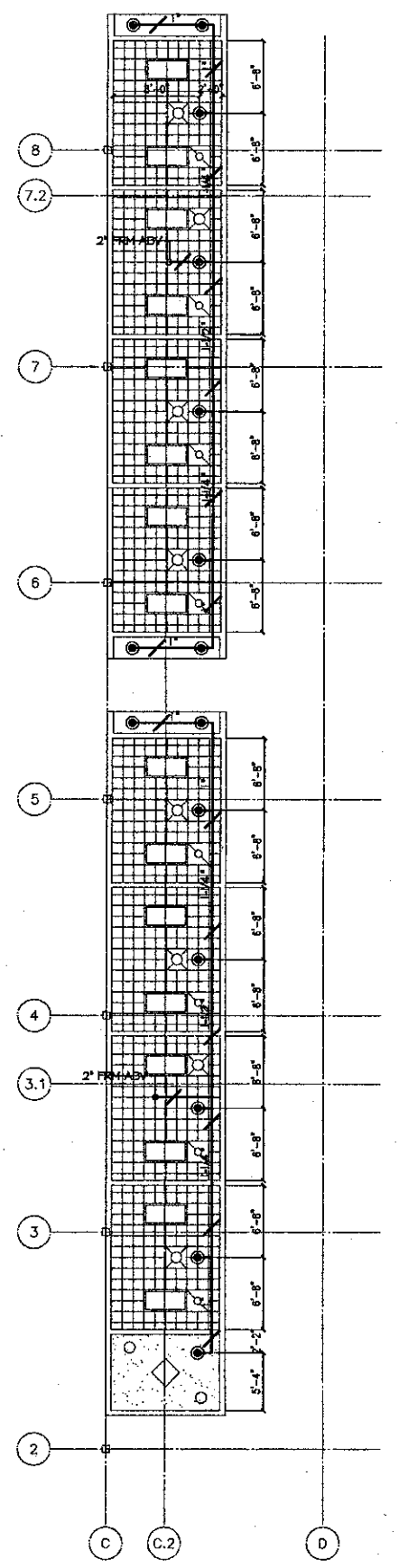
DRAWN: HAM/DU/HAM
CHECKED: PW/HAM
DATE: SEPT. 24, 2001
JOB NO.: 9318

SHEET TITLE
FIRST FLOOR FIRE SPRINKLER PLAN
FS-2

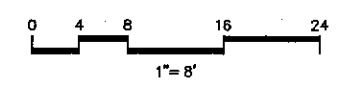


SPRINKLERS		ESCALATORS				
SYMB	TYPE	TEMP.	ORIF.	K	FINISH	QTY.
⊙	UPRIGHT G.R.	M5	1/2	5.6	MHT	14
⊙	SIDEMALL G.R.	M5	1/2	5.6	BRASS	0
⊙	RECESSED G.R.	M5	1/2	5.6	MHT	84
⊙	EXTENDED COVERAGE G.R.	M5	3/4	14.3	MHT	104
⊙	UPRIGHT G.R.	ES (M5)	1/2	4.2	MHT	0
⊙	PIPE SUPPORT					
TOTAL HEADS FOR THIS SHEET						211

NOTE: SPRINKLERS @ SKYLIGHTS SHALL BE OF THE INTERMEDIATE TEMPERATURE RATING TYPE.



GROUP STUDY RMS.



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ENGINEER'S STAMP ARCHITECT'S STAMP

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 DIVISION OF THE STATE ARCHITECT
 FILE NUMBER: SS-01
 APR 03 - 104498
 DATE: 11/8/01

NO.	DESCRIPTION	DATE	BY

DRAWN: HAM/DUF/MAR
 CHECKED: PIW/HAM
 DATE: SEPT. 24, 2001
 JOB NO.: 9318
 SHEET TITLE:
SECOND FLOOR SPRINKLER PLAN

SHEET: **FS-3**

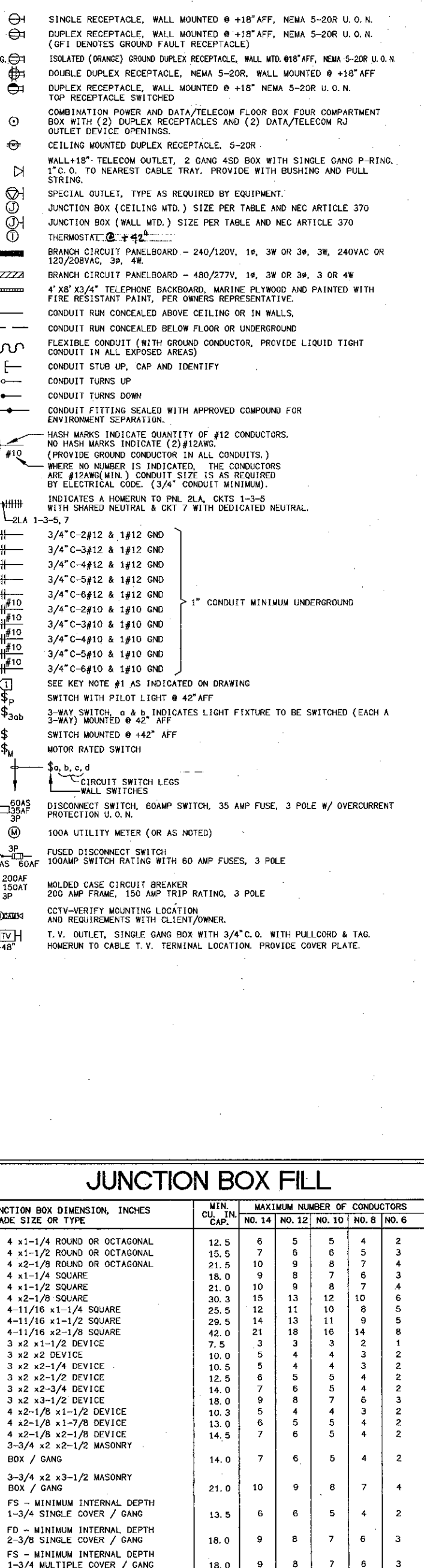
GENERAL NOTES

SYMBOLS

LIST OF DRAWINGS

- A. GENERAL
1. SCOPE
2. PERMITS AND CHARGES
3. REGULATIONS AND CODES
4. VERIFYING EXISTING CONDITIONS
5. COORDINATION
6. SERVICE CONTINUITY
7. AS BUILT
8. GUARANTEE
9. SHOP DRAWINGS
10. CONTRACTOR BID
B. MATERIAL AND INSTALLATION
C. DEMOLITION

- E. GROUNDING & BONDING
F. INSTALLATION
1. IT IS THE INTENT OF THESE PLANS AND SPECIFICATIONS THAT A COMPLETE AND WORKABLE ELECTRICAL INSTALLATION BE PROVIDED FOR ALL THE EQUIPMENT DESCRIBED OR SPECIFIED IN THIS CONTRACT.



LIST OF DRAWINGS table with columns: SHEET, DESCRIPTION, SHEET, DESCRIPTION. Lists sheets E1.0 through E7.4.

SCHOOL ANCHORAGE NOTES

ALL ELECTRICAL EQUIPMENT SHALL BE BRACED OR SEISMIC ANCHORED TO RESIST HORIZONTAL FORCES ACTING IN ANY DIRECTION...

DERATING TABLE

DERATING TABLE with columns: NUMBER OF CURRENT-CARRYING CONDUCTORS, PERCENT OF VALUES IN TABLES AS ADJUSTED FOR AMBIENT TEMPERATURE IF NECESSARY.

TORQUING INFORMATION

TORQUING INFORMATION table with columns: TORQUE, POUND-INCHES, TORQUE, POUND-INCHES. Includes notes on conductor derating and clamping screws.

ABBREVIATIONS

ABBREVIATIONS table listing symbols and their meanings: A AMPERES, AF AMP FRAME/AMP FUSE, AFC AVAILABLE FAULT CURRENT, AFF ABOVE FINISHED FLOOR, etc.

JUNCTION BOX FILL

JUNCTION BOX FILL table with columns: JUNCTION BOX DIMENSION, TRADE SIZE OR TYPE, MIN. CU. IN. CAP., MAXIMUM NUMBER OF CONDUCTORS.

KRUGER BENSON ZIEMER ARCHITECTS, INC. logo and contact information for the project.

VENTURA COLLEGE LEARNING RESOURCES CENTER logo and address: 4667 Telegraph Road, Ventura, CA 93003.

Professional stamps for Engineer's Stamp and Architect's Stamp, including project identification and date.

GENERAL NOTES, ABBREVIATIONS AND SYMBOLS section with a title block and drawing title 'E1.0'.

ENERGY COMPLIANCE

CERTIFICATE OF COMPLIANCE-Lighting Part 2 of 2 **LTG-1**

PROJECT NAME: VENTURA COLLEGE LEARNING RESOURCES CENTER DATE: 10/7/99

PROJECT ADDRESS: 4667 TELEGRAPH ROAD

PRINCIPAL DESIGNER-LIGHTING: KRUGER BENSEN ZIEMER

DOCUMENTATION AUTHOR: CRAIG HOOD

DATE OF PLAN: BUILDING CONDITIONED FLOOR AREA

BUILDING TYPE: NONRESIDENTIAL HIGH RISE RESIDENTIAL HOTEL/RESIDENTIAL

PHASE OF CONSTRUCTION: NEW CONSTRUCTION ADDITION ALTERATION UNCONDITIONED (File Affidavit)

REASON FOR COMPLIANCE: COMPLETE BUILDING AREA CATEGORY TAILORED PERFORMANCE

STATEMENT OF COMPLIANCE

This certificate of compliance lists the building features and performance specifications needed to comply with Title 24, Part 1 and 8 of the California Code of Regulations. This certificate applies only to building lighting requirements.

The proponent hereby certifies that the documentation is accurate and complete.

The Principal Lighting Designer hereby certifies that the proposed building design represented in this set of construction documents is consistent with the energy compliance form and attachments, with the specifications, and with any other calculations submitted with this permit application. The proposed building has been designed to meet the lighting requirements contained in sections 116, 118, 130 through 132, and 140 or 145.

Please check one:

I hereby affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code to sign this document as the person responsible for its preparation, and that I am a civil engineer, electrical engineer or architect.

I affirm that I am eligible under the exemption to Division 3 of the Business and Professions Code by Section 3303.2 of the Business and Professions Code to sign this document as the person responsible for its preparation, and that I am a licensed contractor or registered documents preparer who has been contracted to perform.

I affirm that I am eligible under the exemption to Division 3 of the Business and Professions Code by Section 3303.2 of the Business and Professions Code to sign this document as the person responsible for its preparation, and for the following reason:

DOCUMENTATION AUTHOR: SIGNATURE: DATE: LIC. NO. 12382

PRINCIPAL LIGHTING DESIGNER-NAME: SIGNATURE: DATE: LIC. NO. 12382

LIGHTING MANDATORY MEASURES

Indicate location on plans of Note Block for Mandatory Measures: **E1.0**

INSTRUCTIONS TO APPLICANT

For detailed instructions on the use of this and all Energy Efficiency Standards compliance forms, please refer to the Nonresidential Manual, published by the California Energy Commission.

L10-1: Required on plans for all submissions. Part 2 may be incorporated in schedules on plans.

L10-2: Required for all submissions.

L10-3: Optional. Use only if lighting control credits are taken.

L10-4: Optional. Use only if following method is used. Parts 2 and 3 used only if applicable.

Nonresidential Compliance Form December 1991

CERTIFICATE OF COMPLIANCE-Lighting Part 2 of 2 **LTG-1**

PROJECT NAME: VENTURA COLLEGE LEARNING RESOURCES CENTER DATE: 10/7/99

INSTALLED LIGHTING SCHEDULE

LUMINAIRE NAME (eg. Type-1, Type-2, etc.)	TYPE	NO. OF LAMPS	WATTS/LAMP	TYPE	BALLASTS	NOTE TO FIELD
TYPE - C	<input checked="" type="checkbox"/>	2	32	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
TYPE - D1	<input type="checkbox"/>	1	32	<input type="checkbox"/>	<input type="checkbox"/>	
TYPE - D2	<input type="checkbox"/>	1	42	<input type="checkbox"/>	<input type="checkbox"/>	
TYPE - D3	<input type="checkbox"/>	2	32	<input type="checkbox"/>	<input type="checkbox"/>	
TYPE - F1	<input type="checkbox"/>	1	32	<input type="checkbox"/>	<input type="checkbox"/>	
TYPE - F2A	<input type="checkbox"/>	3	31	<input type="checkbox"/>	<input type="checkbox"/>	1.5
TYPE - F2C	<input type="checkbox"/>	2	32	<input type="checkbox"/>	<input type="checkbox"/>	
TYPE - F3A-D	<input type="checkbox"/>	3	32	<input type="checkbox"/>	<input type="checkbox"/>	1.5
TYPE - F4A	<input type="checkbox"/>	4	32	<input type="checkbox"/>	<input type="checkbox"/>	1.5
TYPE - F4C	<input type="checkbox"/>	4	32	<input type="checkbox"/>	<input type="checkbox"/>	1.5

MANDATORY AUTOMATIC CONTROLS

CONTROL LOCATION (Room #)	CONTROL IDENTIFICATION	CONTROL TYPE (Auto Time Switch, Exterior, etc.)	SPACE CONTROLLED	NOTE TO FIELD
ALL ROOMS	100	BI-LEVEL SWITCH	ALL ROOMS	

CONTROLS FOR CREDIT

CONTROL LOCATION (Room # or Dep. #)	CONTROL IDENTIFICATION	CONTROL TYPE (Occupant, Daylight, Blending, etc.)	LUMINAIRES CONTROLLED	NOTE TO FIELD

NOTES TO FIELD-For Building Department Use Only

Nonresidential Compliance Form December 1991

CERTIFICATE OF COMPLIANCE-Lighting Part 2 of 2 **LTG-2**

PROJECT NAME: VENTURA COLLEGE LEARNING RESOURCES CENTER DATE: 10/7/99

ACTUAL LIGHTING POWER

LUMINAIRE NAME	DESCRIPTION	NUMBER OF LUMINAIRES	WATTS PER LUMINAIRE (Including Ballast)	SCREWMOUNTED	TOTAL WATTS
TYPE - C	COVE FIXTURE	188	18 PER FOOT	<input checked="" type="checkbox"/>	6592
TYPE - D1	8" APERTURE DOWNLIGHT	206	32	<input type="checkbox"/>	6592
TYPE - D3	8" APERTURE DOWNLIGHT	40	64	<input type="checkbox"/>	2560
TYPE - F1	2'x4' LAY-IN	283	64	<input type="checkbox"/>	18112
TYPE - F2A	2'x2' LAY-IN	12	64	<input type="checkbox"/>	768
TYPE - F2C	2'x2' LAY-IN	91	64	<input type="checkbox"/>	5824
TYPE - F3A-D	2'x4' LAY-IN	270	64	<input type="checkbox"/>	17280
TYPE - F4A	2'x4' LAY-IN	15	128	<input type="checkbox"/>	1920

Subtotal from this page: 69248

PLUS SUBTOTAL FROM CONTINUATION PAGE: 59524

LESS CONTROL CREDIT WATTS (FROM L10-3):

ADJUSTED ACTUAL WATTS: 128772

ALLOWED LIGHTING POWER (Choose One Method)

COMPLETE BUILDING METHOD

BUILDING CATEGORY (From Table 2-536)	WATTS PER SF	COMPLETE BLDG. AREA	ALLOWED WATTS
SCHOOL	1.4	92000	128800

AREA CATEGORY METHOD

AREA CATEGORY (From Table 2-536)	WATTS PER SF	AREA (SF)	ALLOWED WATTS

TAILORED OR PERFORMANCE METHOD

TAILORED PERFORMANCE

TOTAL ALLOWED WATTS (From L10-4 or from computer file):

Nonresidential Compliance Form December 1991

LIGHTING COMPLIANCE SUMMARY **LTG-2**

PROJECT NAME: VENTURA COLLEGE LEARNING RESOURCES CENTER DATE: 10/7/99

ACTUAL LIGHTING POWER

LUMINAIRE NAME	DESCRIPTION	NUMBER OF LUMINAIRES	WATTS PER LUMINAIRE (Including Ballast)	SCREWMOUNTED	TOTAL WATTS
TYPE - F1	FLOOD LIGHT	36	190	<input checked="" type="checkbox"/>	6840
TYPE - F10	LINEAR PENDANT	1555 FT.	24 PER FOOT	<input type="checkbox"/>	38280
TYPE - S1	STEP LIGHT	44	30	<input type="checkbox"/>	1320
TYPE - S2	STEP LIGHT	40	18	<input type="checkbox"/>	720
TYPE - T1	TRACK LIGHTING	68'	90 PER FOOT	<input type="checkbox"/>	6120
TYPE - T2	TRACK LIGHTING	80	90 PER FOOT	<input type="checkbox"/>	5400
TYPE - W1	WALL WASH	4	42	<input type="checkbox"/>	168
TYPE - X1	WALL LUMINAIRES	28	28	<input type="checkbox"/>	784

Subtotal from this page: 95524

PLUS SUBTOTAL FROM CONTINUATION PAGE: 59524

LESS CONTROL CREDIT WATTS (FROM L10-3):

ADJUSTED ACTUAL WATTS:

BUILDING LIGHTING SHUT-OFF

THE BUILDING LIGHTING SHUT-OFF SYSTEM CONSISTS OF AN AUTOMATIC TIME SWITCH WITH A ZONE FOR EACH FLOOR; OR THE BUILDING IS SEPARATELY METERED AND LESS THAN 5,000 SQUARE FEET; EXEMPT FROM THE SHUT-OFF REQUIREMENT.

TAILORED OR PERFORMANCE METHOD

BUILDING LIGHTING SHUT-OFF

THE BUILDING LIGHTING SHUT-OFF SYSTEM IS PROVIDED WITH A MANUAL, ACCESSIBLE OVERRIDE SWITCH IN SIGHT OF THE LIGHTS. THE AREA OF OVERRIDE IS NOT TO EXCEED 5,000 SF.

AUTOMATIC CONTROL DEVICES CERTIFIED

ALL AUTOMATIC CONTROL DEVICES SPECIFIED ARE CERTIFIED, ALL ALTERNATE EQUIPMENT SHALL BE CERTIFIED AND INSTALLED AS DIRECTED BY THE MANUFACTURER.

FLUORESCENT BALLAST AND LUMINAIRES CERTIFIED

ALL FLUORESCENT FIXTURES SPECIFIED FOR THE PROJECT ARE CERTIFIED AND LISTED IN THE DIRECTORY. ALL INSTALLED FIXTURES SHALL BE CERTIFIED.

TANDEM WIRING FOR TWO-LAMP BALLASTS

ALL ONE AND THREE LAMP FLUORESCENT FIXTURES ARE TANDEM WIRED WITH TWO (2) LAMP BALLASTS WHERE REQUIRED BY STANDARDS 132; OR ALL THREE LAMP FLUORESCENT FIXTURES ARE SPECIFIED WITH ELECTRONIC HIGH-FREQUENCY BALLASTS AND ARE EXEMPT FROM TWO-LAMP TANDEM WIRING REQUIREMENTS.

INDIVIDUAL ROOM/AREA CONTROLS

EACH ROOM AND AREA IN THIS BUILDING IS EQUIPPED WITH A SEPARATE SWITCH OR OCCUPANCY SENSOR DEVICE FOR EACH AREA WITH FLOOR-TO-CEILING WALLS.

UNIFORM REDUCTION FOR INDIVIDUAL ROOMS

ALL ROOMS AND AREAS GREATER THAN 100 SQUARE FEET AND MORE THAN 1.2 WATTS PER SQUARE FOOT OF LIGHTING LOAD SHALL BE CONTROLLED WITH BI-LEVEL SWITCHING FOR UNIFORM REDUCTION OF LIGHTING WITHIN THE ROOM.


DAYLIGHT AREA CONTROL

ALL ROOMS WITH WINDOWS AND SKYLIGHTS, THAT ARE GREATER THAN 250 SQUARE FEET, AND THAT ALLOW FOR THE EFFECTIVE USE OF DAYLIGHT IN THE AREA SHALL HAVE 50% OF THE LAMPS IN EACH DAYLIGHT AREA CONTROLLED BY A SEPARATE SWITCH; OR THE EFFECTIVE USE OF DAYLIGHT THROUGH CANNOT BE ACCOMPLISHED BECAUSE THE WINDOWS ARE CONTINUOUSLY SHADED BY A BUILDING ON THE ADJACENT LOT. DIAGRAM OF SHADING DURING DIFFERENT TIMES OF YEAR IS INCLUDED ON PLANS.

CONTROL OF EXTERIOR LIGHTS

EXTERIOR MOUNTED FIXTURES AND SERVED FROM THE ELECTRICAL PANEL INSIDE THE BUILDING ARE CONTROLLED WITH A DIRECTIONAL PHOTO CELL CONTROL ON THE ROOF AND A CORRESPONDING RELAY IN THE ELECTRICAL PANEL.

Nonresidential Compliance Form December 1991



KRUGER BENSEN ZIEMER ARCHITECTS, INC. AIA
30 W. ANSELMO AVE. SANTA BARBARA, CA 93101
RDS/MS/1726

STEVE DOWDY, A.I.A.
PRINCIPAL IN CHARGE

THERRY H. CASSAN
PROJECT DESIGNER

We shall design, prepare and seal drawings and reports in accordance with the provisions of the State Architectural Board Act, Chapter 107, Section 107.001, and the rules and regulations of the State Architectural Board. We shall not be held responsible for any errors or omissions on the drawings or reports. These drawings, reports and specifications are to be used only for the project and site shown and shall not be used for any other project without the written consent of Kruger-Bensen-Ziemer.

LIU & ASSOCIATES INC.
CONSULTING ELECTRICAL ENGINEERS
8888 ORTEGA BLVD., SUITE 200
CARKVILLE, CA 95020-9004
(925) 389-8830 FAX (925) 389-8839

LIU & ASSOCIATES, INC. reserves the right to make changes to these drawings and reports without notice. The user of these drawings and reports shall be responsible for verifying the accuracy of the information contained herein. The user shall be held responsible for any errors or omissions on the drawings or reports. These drawings, reports and specifications are to be used only for the project and site shown and shall not be used for any other project without the written consent of Kruger-Bensen-Ziemer.

VENTURA COLLEGE LEARNING RESOURCES CENTER

Ventura County Community College District

Ventura, CA 93003

4667 Telegraph Road

ENGINEER'S STAMP

ARCHITECT'S STAMP

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
FILE NUMBER: 95C1
APPL 03-104498
DATE: 10/7/99

NO.	DESCRIPTION	DATE	BY

DRWN: DENISE CUNNINGHAM
CHECKED: CRAIG HOOD
DATE: 09/24/01
JOB NO.: 99245

SHEET TITLE

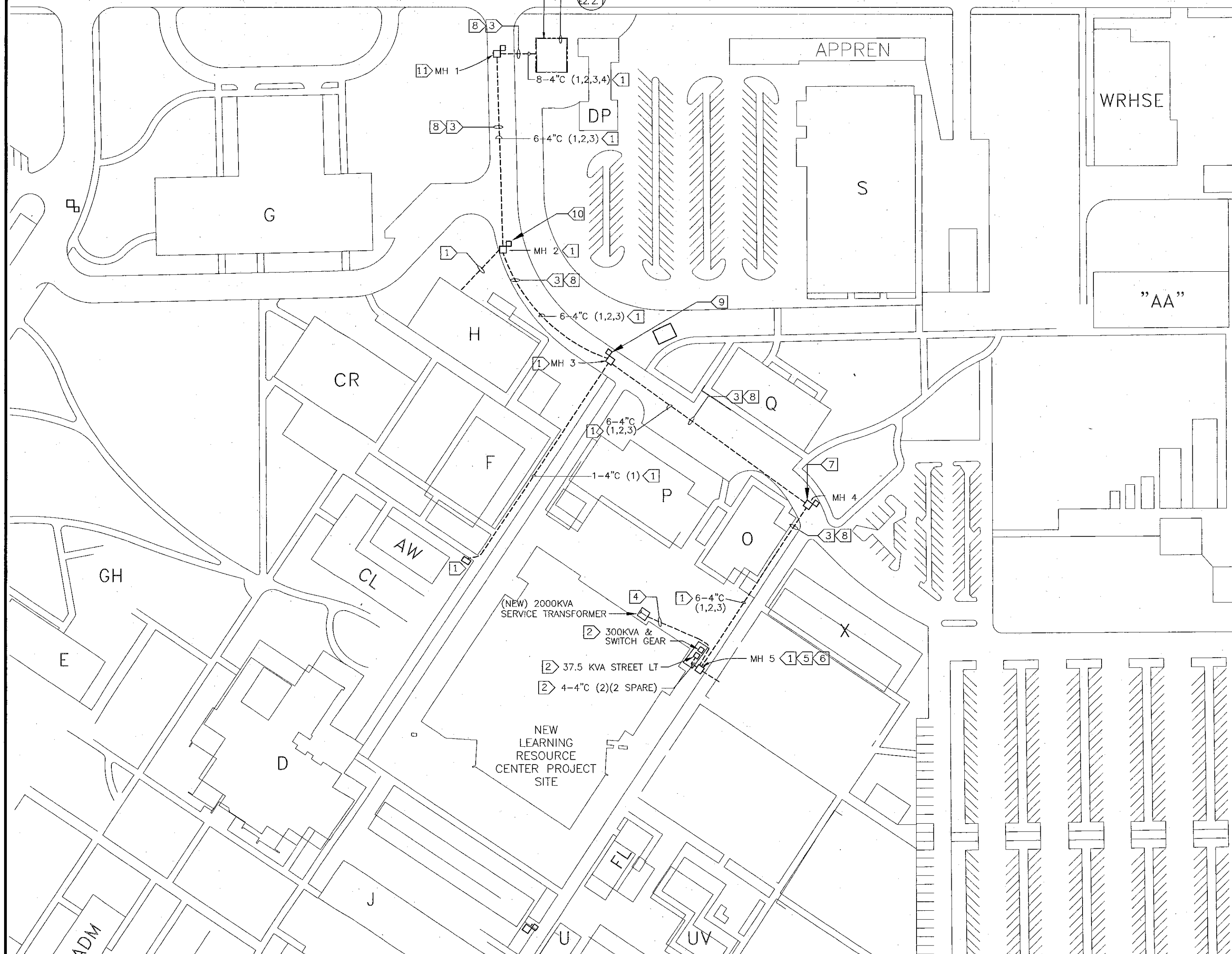
TITLE 24 ENERGY COMPLIANCE FORMS

SHEET

E1.1

LOMA VISTA ROAD

PROVIDE NEW MAIN 4160 SERVICE SWITCH GEAR AND SCE METERING ENCLOSURE



SITE ELECTRICAL M.V. SERVICE PLAN 1
SCALE: 1" = 40'-0"

SHEET NOTES:

1. VERIFY LOCATION OF ALL BUILDINGS AND APPURTENANCES ON ARCHITECTURAL AND CIVIL PLANS.
2. CONTRACTOR SHALL VERIFY LOCATION AND REQUIREMENTS OF ALL ELECTRICAL DEVICES PRIOR TO BID, ROUGH-IN AND INSTALLATION.
3. CONTRACTOR SHALL, IN ROUTING ALL CIRCUITS, INCREASE CONDUIT AND CONDUIT SIZE TO ALLOW FOR VOLTAGE DROP SHOULD THE CONTRACTOR EXCEED ROUTING INDICATED ON DRAWING. ENGINEER OF RECORD MUST BE NOTIFIED PRIOR TO ANY DEVIATIONS FROM APPROVED PLAN CHECK (PERMIT SET) DRAWINGS.
4. FIELD VERIFY LOCATION OF AND PROTECT ALL UNDERGROUND UTILITIES PRIOR TO TRENCHING. SCHEDULE AND COORDINATE ALL SITE WORK WITH OWNER PRIOR TO ANY TRENCHING. CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ALL COSTS TO REPAIR ANY SYSTEMS DAMAGED DURING THE COURSE OF CONSTRUCTION.
5. ALL CONDUIT RISERS SHALL BE PVC COATED RIGID STEEL.
6. CONTRACTOR SHALL COORDINATE AND PROVIDE ALL SITE ELECTRICAL SERVICE REQUIREMENTS WITH OWNER.
7. ALL SERVICE ENTRANCE EQUIPMENT SHOP DRAWINGS SHALL BE SUBMITTED TO THE SERVING UTILITY FOR APPROVAL PRIOR TO SUBMITTING TO ELECTRICAL ENGINEER FOR APPROVAL.
8. VERIFY LOCATION OF ALL EQUIPMENT AND DEVICES ON ARCHITECTURAL AND CIVIL PLANS.
9. MINIMUM CONDUIT BURIAL DEPTH IS 24", 38" MINIMUM BELOW STREETS AND PARKING LOTS FOR 0-600 VOLT SYSTEMS.
10. CONTRACTOR TO PROVIDE GROUND CONDUCTORS IN ALL CONDUITS.
11. 1" CONDUIT MINIMUM UNDERGROUND.
12. COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES, AND WIRING REQUIRED WHETHER SHOWN ON ELECTRICAL DRAWINGS OR NOT.
13. CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL CONDUCTORS PER CONDUIT MANUFACTURERS RECOMMENDATIONS, PER THE NATIONAL ELECTRICAL CODE AND PER LOCAL AUTHORITIES HAVING JURISDICTION.
14. CONTRACTOR SHALL FIELD VERIFY ALL SITE WORK DIMENSIONS PRIOR TO SUBMITTING BID PROPOSAL, ROUGH-IN, AND INSTALLATION.

KEY NOTES:

- ① EXISTING ELECTRICAL SYSTEM TO REMAIN PROTECT IN PLACE.
- ② RELOCATE EXISTING EQUIPMENT OUTSIDE LIMITS OF LRC CONSTRUCTION PER SHEET E2.0 AND AS NECESSARY.
- ③ PROVIDE NEW 4160 VOLT FEEDER #5 PER SHEET E2.1.1 FOR NEW LRC BUILDING IN EXISTING 4" DUCT AND MANHOLE SYSTEM. PROVIDE 14" STEEL CABLE RACK HOOK (HUBBELL #C203-0315) AND CABLE RACK INSULATORS (HUBBELL #C203-1120) IN EACH MANHOLE FOR NEW FEEDER.
- ④ PROVIDE NEW 4160 VOLT FEEDER #5 AND NEW 4" DUCT FROM MANHOLE #5 TO NEW 2000 KVA LRC BUILDING SERVICE TRANSFORMER.
- ⑤ PROVIDE NEW (2), TRAFFIC RATED 10'x10" TOP SLAB (2) CONCRETE GRADE CONES, (2) CAST IRON RINGS AND (2) CAST IRON MANHOLE COVERS AT EXISTING ELECTRICAL AND COMMUNICATION MANHOLES. REMOVE AND REPLACE EXISTING MANHOLE COVER WITH NEW TOP SLAB / CONE / COVER SYSTEM AS NECESSARY TO BRING LID FLUSH WITH NEW GRADE ELEVATION.
- ⑥ MANHOLE #5: REMOVE ABANDONED FEEDERS, ASBESTOS FIRE PROOFING AND SKV OIL FILLED SWITCH. REMOVE AND PULLOUT ABANDONED FEEDERS FROM MANHOLE #5 DUCTS. PREPARE MANHOLE #5 AND DUCT TO RECEIVE NEW LRC FEEDER #5.
- ⑦ MANHOLE #4: REMOVE ABANDONED FEEDERS, ASBESTOS FIRE PROOFING AND SKV OIL FILLED SWITCH. REMOVE AND PULLOUT ABANDONED FEEDERS FROM MANHOLE #4 DUCTS. PREPARE MANHOLE #4 AND DUCTS TO RECEIVE NEW LRC FEEDER #5.
- ⑧ PULLOUT AND REMOVE ABANDONED FEEDERS FROM EXISTING DUCTS. PROTECT LIVE FEEDERS IN PLACE.
- ⑨ MANHOLE #3: REMOVE ABANDONED FEEDERS, ASBESTOS FIRE PROOFING AND SKV OIL FILLED SWITCH. REMOVE AND PULLOUT ABANDONED FEEDERS FROM MANHOLE #3 DUCTS. PREPARE MANHOLE #3 AND DUCTS TO RECEIVE NEW LRC FEEDER #5.
- ⑩ MANHOLE #2: REMOVE ABANDONED FEEDERS, ASBESTOS FIRE PROOFING AND SKV OIL FILLED SWITCH. REMOVE AND PULLOUT ABANDONED FEEDERS FROM MANHOLE #2 DUCTS. PREPARE MANHOLE #2 AND DUCTS TO RECEIVE NEW LRC FEEDER #5.
- ⑪ MANHOLE #1: REMOVE ABANDONED FEEDERS AND ASBESTOS FIRE PROOFING. REMOVE AND PULLOUT ABANDONED FEEDERS FROM MAIN SWITCH DUCT AND TRENCH. PREPARE MANHOLE #1 AND DUCTS TO RECEIVE NEW LRC FEEDER #5.

KRUGER BENSEN ZIEMER ARCHITECTS, INC.
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STEVE DOWTY, A.I.A.
PRINCIPAL IN CHARGE

THERRY H. CASSAN
PROJECT DESIGNER

All work, design, drawings and plans indicated or represented by this drawing are made in and to the best of the knowledge of the undersigned. It is understood that the undersigned is not responsible for any errors or omissions in the drawing. Plans of work shown, designs, computations or data used in and to be used by the client are the responsibility of the client.

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**VENTURA COLLEGE
LEARNING RESOURCES CENTER**
Ventura County Community College District
Ventura, CA 93003
4667 Telegraph Road

ENGINEER'S STAMP: DENISE CUNNINGHAM, No. 15322, Exp. 6-30-05, State of California

ARCHITECT'S STAMP: No. 11157, Exp. 11/01, State of California

IDENTIFICATION STAMP: DIVISION OF THE STATE ARCHITECT, FILE NUMBER: 56C1, APPL 03-104498, DATE: 09/24/01

NO.	DESCRIPTION	DATE	BY

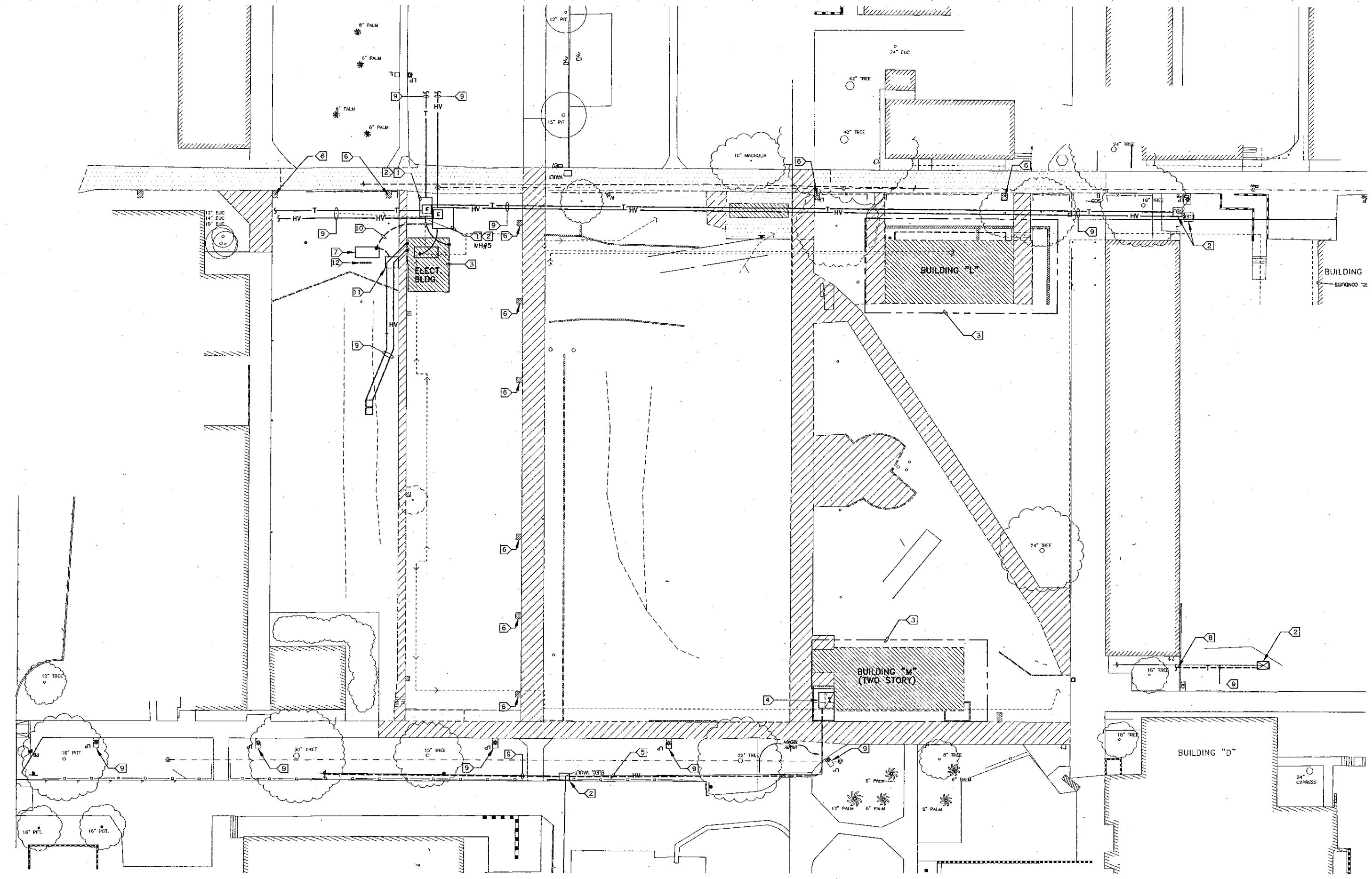
DRAWN: DENISE CUNNINGHAM
CHECKED: CRAIG HOOD
DATE: 09/24/01
JOB NO.: 99245
SHEET TITLE: SITE ELECTRICAL M.V. SERVICE PLAN
SHEET: E1.1.1

SHEET NOTES:

1. SCOPE: PROVIDE AND PERFORM DEMOLITION, PREPARATORY AND MISCELLANEOUS WORK IN AREAS AS INDICATED AND SPECIFIED, COMPLETE.
2. DEMOLITION AND REMOVAL OF EXISTING ELECTRICAL CONDUIT, WIRING AND EQUIPMENT REQUIRED TO COMPLETE THE PROJECT.
3. PREPARATION OF THE EXISTING BUILDING TO RECEIVE OR CONNECT THE NEW WORK.
4. MISCELLANEOUS DEMOLITION, CUTTING, ALTERATION AND REPAIR WORK ON EXISTING SITE AND IN THE EXISTING BUILDING NECESSARY FOR THE COMPLETION OF THE ENTIRE PROJECT.
5. DISCONNECTING AND RECONNECTION OF ELECTRICAL EQUIPMENT AS REQUIRED BY THE CONSTRUCTION MODIFICATIONS.
6. EXISTING CONDITIONS: PRIOR TO BID MAKE A DETAILED SURVEY OF THE EXISTING CONDITIONS PERTAINING TO THE WORK. CHECK THE LOCATIONS OF ALL EXISTING STRUCTURES, EQUIPMENT AND WIRING (BRANCH CIRCUITING AND CONTROLS). CHECK FOR ANY HAZARDOUS MATERIALS WHICH MAY REQUIRE SPECIAL HANDLING.
7. SALVAGE AND DISPOSAL: ALL REMOVED MATERIAL OTHER THAN ITEMS TO BE REUSED SHALL BE RETURNED TO THE OWNER OR DISPOSED OF IN ACCORDANCE WITH INSTRUCTIONS FROM THE OWNER'S REPRESENTATIVE. DISPOSAL SHALL BE DONE IN ACCORDANCE WITH EPA AND GOVERNING BODY REQUIREMENTS AND REGULATIONS. CONTRACTOR SHALL PAY ALL FEES AND CHARGES FOR DISPOSAL.
8. TWO WEEKS PRIOR TO START OF ANY WORK CONTRACTOR SHALL SCHEDULE ALL WORK AND ELECTRICAL SYSTEM OUTAGES WITH OWNERS WRITTEN APPROVAL.
9. CONTRACTOR SHALL LEAVE ALL POWER & SIGNAL CIRCUITS ENERGIZED, VIA JUNCTION BOX, TO DEVICES IN AREAS OUTSIDE OF DEMOLITION AREA EVEN IF SYSTEMS ARE ROUTED THROUGH DEMOLITION AREA.
10. CONTRACTOR SHALL FIELD VERIFY LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO ANY TRENCHING. CONTRACTOR SHALL PROTECT ALL EXISTING/REMAINING UNDERGROUND UTILITY SYSTEMS IN PLACE. CONTRACTOR SHALL REPAIR ANY UTILITY SYSTEM DAMAGED DURING CONSTRUCTION.

KEY NOTES:

- ① APPROXIMATE BELOW GRADE OUTLINE OF MANHOLE. FIELD VERIFY LOCATION AND PROTECT IN PLACE.
- ② EXISTING POWER OR TELECOM MANHOLE, PROTECT IN PLACE.
- ③ DE-ENERGIZE, DISCONNECT, REMOVE, AND DISPOSE OF ALL EXISTING ELECTRICAL SYSTEMS WITHIN BUILDING DEMOLITION AREA.
- ④ DISCONNECT, REMOVE IN A NON DESTRUCTIVE MANNER AND RETURN TO OWNERS STORAGE YARD EXISTING TRANSFORMER.
- ⑤ REMOVE EXISTING H.V. FEEDER AND RETERMINATE FEEDER IN MANHOLE AS NECESSARY PER CONSTRUCTION MODIFICATIONS.
- ⑥ DISCONNECT, REMOVE IN A NON DESTRUCTIVE MANNER, AND RETURN POLE & LIGHT FIXTURE TO OWNERS STORAGE YARD.
- ⑦ RELOCATE EXISTING 300KVA TRANSFORMER AND POWER DISTRIBUTION SYSTEM OUTSIDE LIMITS OF NEW CONSTRUCTION. TEMPORARILY RECONNECT HIGH VOLTAGE AND LOW VOLTAGE FEEDERS TO RELOCATED TRANSFORMER / SWITCHBOARD DURING CONSTRUCTION.
- ⑧ FIELD VERIFY LOCATION OF TELECOM SYSTEM STUB-OUT / POINT OF CONNECTION.
- ⑨ PROTECT EXISTING ELECTRICAL UTILITY SYSTEM IN PLACE.
- ⑩ TEMPORARILY EXTEND H.V. FEEDER OUTSIDE LIMITS OF CONSTRUCTION AND REFEED RELOCATED TRANSFORMER.
- ⑪ INTERCEPT EXISTING ELECTRICAL SYSTEMS AND EXTEND TO RELOCATED TRANSFORMER/SWITCHEAR.
- ⑫ RELOCATE EXISTING PANELBOARDS TO CONTRACTOR PROVIDED TEMPORARY PIPE/PLYWOOD SUPPORT STAND, INTERCEPT AND EXTEND BRANCH CIRCUIT WIRING AS NECESSARY OUTSIDE LIMITS OF CONSTRUCTION.



SITE ELECTRICAL DEMOLITION PLAN ①
SCALE: 1" = 20'-0"

KRUGER BENSEN ZIEMER
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805/963-1726

STEVE DOWTY, A.I.A.
PRINCIPAL IN CHARGE

THERRY H. CASSAN
PROJECT DESIGNER

All work, design, construction and plans included or represented by this drawing are made by and for the account of the client. The client is responsible for the accuracy and completeness of the information provided. The client is responsible for the accuracy and completeness of the information provided. The client is responsible for the accuracy and completeness of the information provided.

JUNI & ASSOCIATES INC.
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2885 CORTE MALIBU, #501
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VENTURA COLLEGE
LEARNING RESOURCES CENTER
Ventura County Community College District
Ventura, CA 93003
4667 Telegraph Road

ENGINEER'S STAMP
ARCHITECT'S STAMP

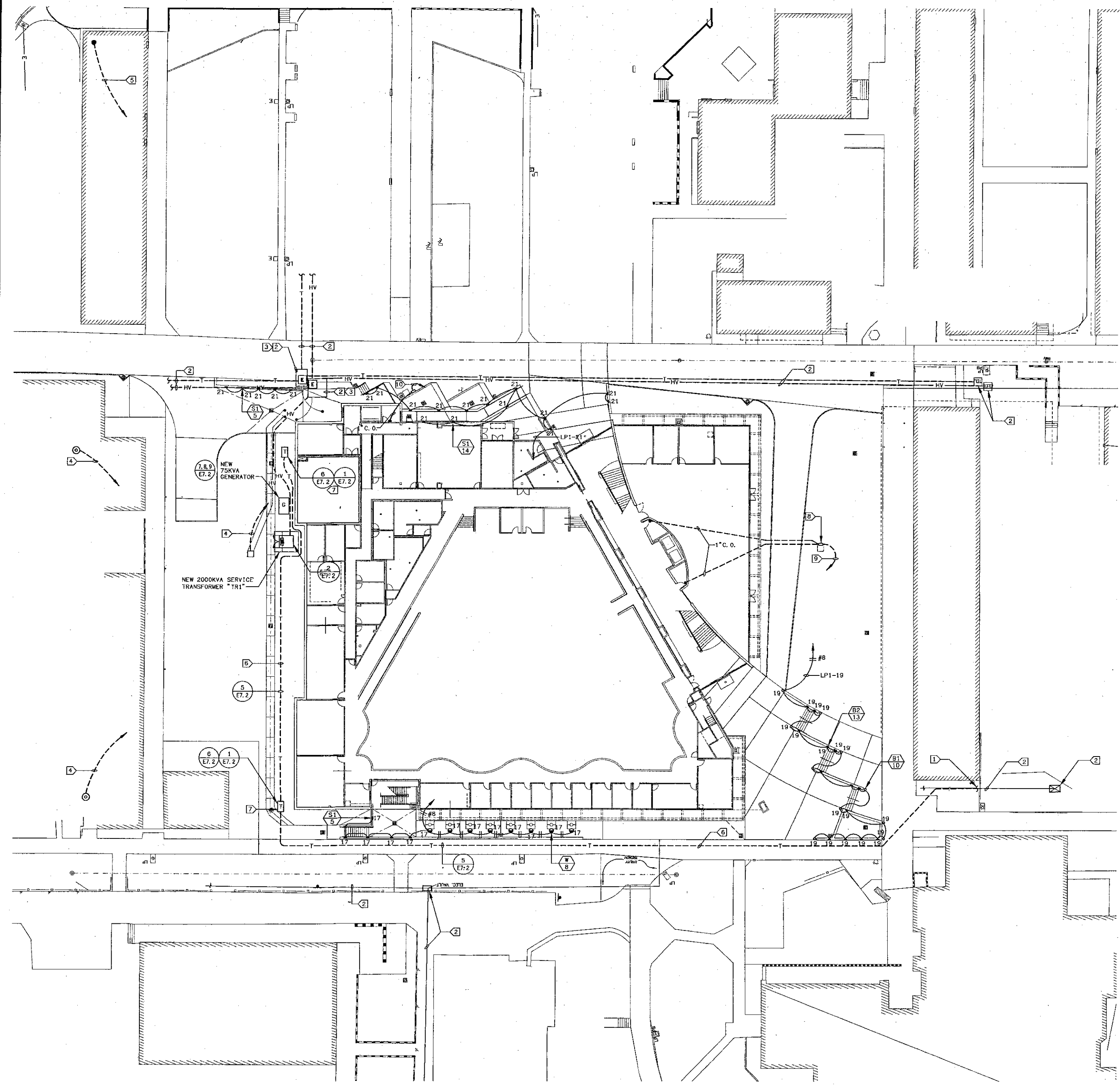
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
FILE NUMBER: 56C1
APPL 03-104498
DATE: 09/24/01

NO.	DESCRIPTION	DATE	BY

DESIGN: DENISE CUNNINGHAM
CHECKED: CRAIG HOOD
DATE: 09/24/01
JOB NO.: 99245

SHEET TITLE:
SITE ELECTRICAL DEMOLITION PLAN

SHEET:
E2.0



SITE ELECTRICAL PLAN ①
SCALE 1" = 20'-0"

SHEET NOTES:

1. VERIFY LOCATION OF ALL BUILDINGS AND APPENDICES ON ARCHITECTURAL AND CIVIL PLANS.
2. CONTRACTOR SHALL VERIFY LOCATION & REQUIREMENTS OF ALL ELECTRICAL DEVICES PRIOR TO BID. ROUGH-IN & INSTALLATION.
3. CONTRACTOR SHALL, IN ROUTING ALL CIRCUITS, INCREASE CONDUCTOR & CONDUIT SIZE TO ALLOW FOR VOLTAGE DROP SHOULD THE CONTRACTOR EXCEED ROUTING INDICATED ON DRAWING. ENGINEER OF RECORD MUST BE NOTIFIED PRIOR TO ANY DEVIATIONS FROM APPROVED PLAN CHECK (PERMIT SET) DRAWINGS.
4. FIELD VERIFY LOCATION OF AND PROTECT ALL UNDERGROUND UTILITIES PRIOR TO TRENCHING. SCHEDULE AND COORDINATE ALL SITE WORK WITH OWNER PRIOR TO ANY TRENCHING. CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ALL COSTS TO REPAIR ANY SYSTEMS DAMAGED DURING THE COURSE OF CONSTRUCTION.
5. ALL CONDUIT RISERS SHALL BE PVC COATED RIGID STEEL.
6. CONTRACTOR SHALL COORDINATE AND PROVIDE ALL SITE ELECTRICAL SERVICE REQUIREMENTS WITH OWNER.
7. ALL SERVICE ENTRANCE EQUIPMENT SHOP DRAWINGS SHALL BE SUBMITTED TO THE ELECTRICAL ENGINEER FOR APPROVAL.
8. VERIFY LOCATION OF ALL EQUIPMENT AND DEVICES ON ARCHITECTURAL AND CIVIL PLANS.
9. MINIMUM CONDUIT BURIAL DEPTH IS 24", 36" MINIMUM BELOW STREETS & PARKING LOTS FOR 0-600 VOLT SYSTEMS.
10. CONTRACTOR TO PROVIDE GROUND CONDUCTORS IN ALL CONDUITS.
11. 1" CONDUIT MINIMUM UNDERGROUND.
12. COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES, AND WIRING REQUIRED WHETHER SHOWN ON ELECTRICAL DRAWINGS OR NOT.
13. CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL CONDUCTORS PER CONDUCTOR MANUFACTURERS RECOMMENDATIONS, PER THE NATIONAL ELECTRICAL CODE AND PER LOCAL AUTHORITIES HAVING JURISDICTION.

KEY NOTES:

- ① INTERCEPT EXISTING (3)4" C.O. TELECOM DUCT BANK AND EXTEND TO ROOM #137.
- ② CONTRACTOR SHALL FIELD VERIFY LOCATION OF ALL EXISTING POWER AND TELECOM SYSTEMS AND PROTECT IN PLACE. CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ALL COSTS TO REPAIR ANY SYSTEMS DAMAGED DURING THE COURSE OF CONSTRUCTION.
- ③ PROVIDE NEW MANHOLE EXTENSION RING AND COVER. RAISE COVER FLUSH WITH FINISH GRADE. QUICKSET #PVCN-48 RING, NECKING, AND TRAFFIC COVER AS NECESSARY FOR CONSTRUCTION MODIFICATIONS.
- ④ INTERCEPT AND EXTEND BUILDING "D" AND BUILDING "P" FEEDERS TO NEW "DB" SWITCHBOARD. SEE DRAWING E2.2 FOR FEEDER REQUIREMENTS.
- ⑤ INTERCEPT AND EXTEND BUILDING "X" FEEDERS TO NEW "DB" SWITCHBOARD. SEE DRAWING E2.2 FOR ADDITIONAL REQUIREMENTS.
- ⑥ (3)4" C.O. TELECOM DUCT BANK.
- ⑦ NEW TELCOM MANHOLE QUICKSET #465 WITH TRAFFIC RATED COVER & CABLE RACKS ON ALL SIDES.
- ⑧ 12"x20"x12" CONCRETE PULLBOX FOR ELEVATOR OIL INTERCEPTOR POWER & CONTROL SYSTEMS.
- ⑨ 1" C AND CONTROL WIRING FOR INTERCEPTOR HIGH WATER ALARM. VERIFY & PROVIDE PER VENDORS SHOP DRAWING. HOMERUN CONDUIT ALARM PANEL LOCATED IN ROOM #234.
- ⑩ 1" C AND CONTROL WIRING FOR INTERCEPTOR HIGH WATER ALARM. VERIFY & PROVIDE PER VENDORS SHOP DRAWING. HOMERUN CONDUIT ALARM PANEL LOCATED IN ROOM #156.

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REV/P&S 1/20

STEVE DOWTY, A.I.A.
PRINCIPAL IN CHARGE

THIERRY H. CASSAN
PROJECT DESIGNER

All work, design, equipment and plans indicated or mentioned by the drawing are subject to the approval of the appropriate authority. The engineer, architect and designer for any work, and in connection with the execution thereof, shall be held responsible for any work and shall be held liable in the event of any error, omission or neglect in any project whatsoever. The engineer, architect and designer shall not be held responsible for any work or design of any other project.

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Professional Engineer
No. 11171
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Exp. 12/31/01*

**VENTURA COLLEGE
LEARNING RESOURCES CENTER**

Ventura County Community College District

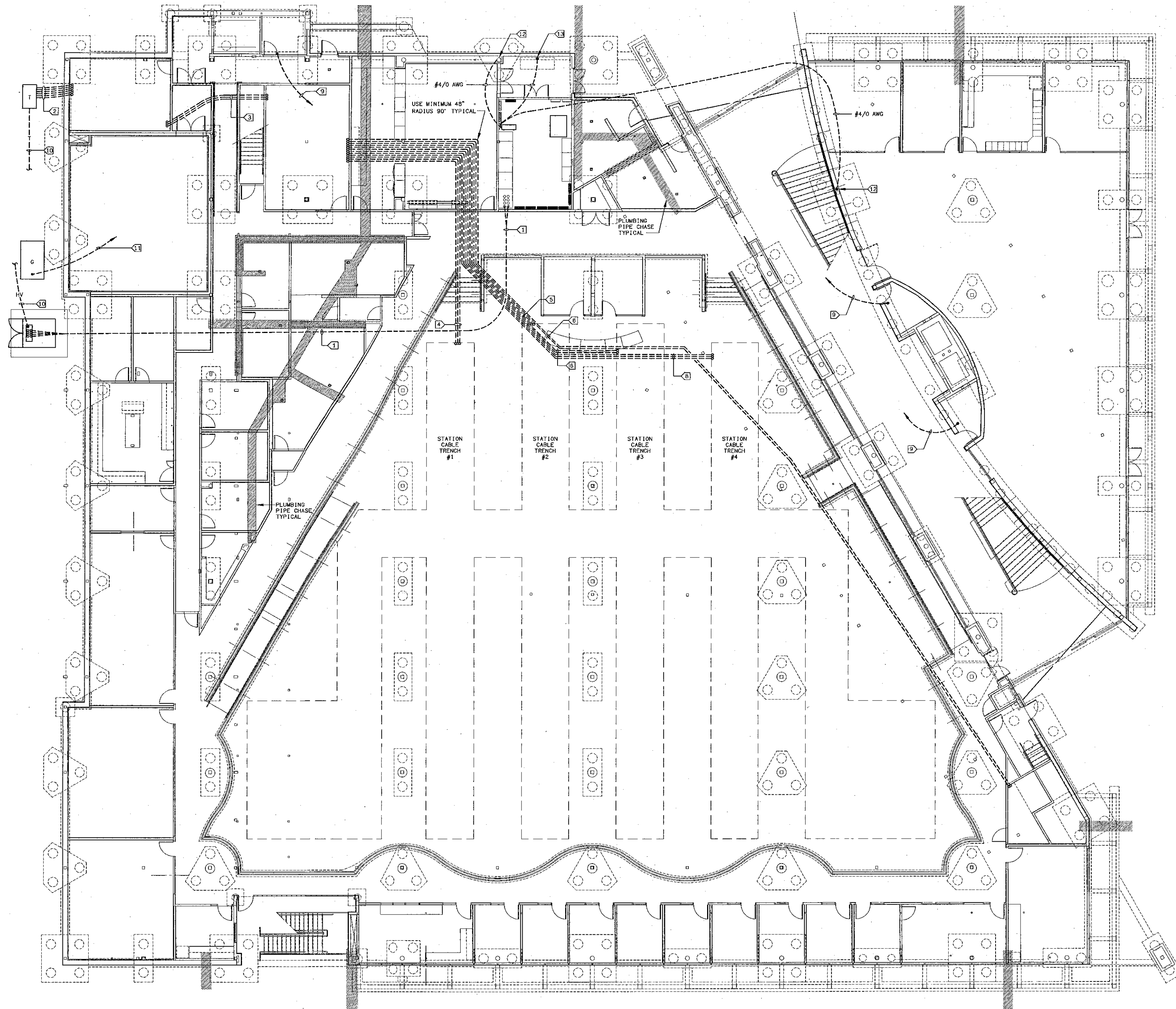
4667 Telegraph Road
Ventura, CA 93003

ENGINEER'S STAMP ARCHITECT'S STAMP

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
FILE NUMBER: 56C1
APPL 03-104498
DATE: 09/24/01

NO.	DESCRIPTION	DATE	BY

DRAWN DENSE CUNNINGHAM
CHECKED CRAIG HODD
DATE 09/24/01
JOB NO. 99245
SHEET TITLE
SITE ELECTRICAL PLAN
SHEET
E2.1



NOTE:
FOR CLARITY UNDERGROUND POWER AND SIGNAL CONDUITS SMALLER THAN 4 INCH ARE NOT SHOWN ON THIS PLAN.

SHEET NOTES:

1. VERIFY LOCATION OF ALL BUILDINGS AND APPENDICES ON ARCHITECTURAL AND CIVIL PLANS.
2. CONTRACTOR SHALL VERIFY LOCATION & REQUIREMENTS OF ALL ELECTRICAL DEVICES PRIOR TO BID, ROUGH-IN & INSTALLATION.
3. CONTRACTOR SHALL, IN ROUTING ALL CIRCUITS, INCREASE CONDUIT & CONDUIT SIZE TO ALLOW FOR VOLTAGE DROP. SHOULD THE CONTRACTOR EXCEED ROUTING INDICATED ON DRAWING, ENGINEER OF RECORD MUST BE NOTIFIED PRIOR TO ANY DEVIATIONS FROM APPROVED PLAN CHECK (PERMIT SET) DRAWINGS.
4. FIELD VERIFY LOCATION OF AND PROTECT ALL UNDERGROUND UTILITIES PRIOR TO TRENCHING. SCHEDULE AND COORDINATE ALL SITE WORK WITH OWNER PRIOR TO ANY TRENCHING. CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ALL COSTS TO REPAIR ANY SYSTEMS DAMAGED DURING THE COURSE OF CONSTRUCTION.
5. ALL CONDUIT RISERS SHALL BE PVC COATED RIGID STEEL.
6. CONTRACTOR SHALL COORDINATE AND PROVIDE ALL SITE ELECTRICAL SERVICE REQUIREMENTS WITH OWNER.
7. ALL SERVICE ENTRANCE EQUIPMENT SHOP DRAWINGS SHALL BE SUBMITTED TO THE ELECTRICAL ENGINEER FOR APPROVAL.
8. VERIFY LOCATION OF ALL EQUIPMENT AND DEVICES ON ARCHITECTURAL AND CIVIL PLANS.
9. MINIMUM CONDUIT BURIAL DEPTH IS 24", 36" MINIMUM BELOW STREETS & PARKING LOTS FOR 0-600 VOLT SYSTEMS.
10. CONTRACTOR TO PROVIDE GROUND CONDUCTORS IN ALL CONDUITS.
11. 1" CONDUIT MINIMUM UNDERGROUND.
12. COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES, AND WIRING REQUIRED WHETHER SHOWN ON ELECTRICAL DRAWINGS OR NOT.
13. CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL CONDUCTORS PER CONDUIT MANUFACTURER'S RECOMMENDATIONS, PER THE NATIONAL ELECTRICAL CODE AND PER LOCAL AUTHORITIES HAVING JURISDICTION.
14. ALL DUCT BANKS WITHIN BUILDING FOOTPRINT SHALL BE BACKFILLED WITH CONCRETE SLURRY.
15. MINIMUM 48" RADIUS BEND.

KEY NOTES:

- ① POWER SERVICE ENTRANCE DUCT: (8)5" C- SEE DRAWING E2.2 FOR FEEDER REQUIREMENTS.
- ② TELECOM / DATA SERVICE ENTRANCE DUCT: (6)4" C.O. WITH PULL STRING.
- ③ COMM. ROOM TO NETWORK ROOM INTERCONNECT DUCT: (3)4" C.O. WITH PULL STRING.
- ④ NETWORK ROOM TO STATION CABLE TRENCH #1 INTERCONNECT DUCT: (3)4" C.O. WITH PULL STRING.
- ⑤ NETWORK ROOM TO STATION CABLE TRENCH #2 INTERCONNECT DUCT: (2)4" C.O. WITH PULL STRING.
- ⑥ NETWORK ROOM TO COMM. ROOM #112 INTERCONNECT DUCT: (2)4" C.O. WITH PULL STRING.
- ⑦ NETWORK ROOM TO STATION CABLE TRENCH #3 INTERCONNECT DUCT: (2)4" C.O. WITH PULL STRING.
- ⑧ NETWORK ROOM TO STATION CABLE TRENCH #4 INTERCONNECT DUCT: (3)4" C.O. WITH PULL STRING.
- ⑨ ELEVATOR FEEDER; SEE DRAWING E2.2 FOR FEEDER REQUIREMENTS.
- ⑩ SEE DRAWING E2.1 FOR CONTINUATION OF SERVICE DUCT BANKS.
- ⑪ SEE DRAWING E2.2 FOR EMERGENCY GENERATOR FEEDER REQUIREMENTS.
- ⑫ BOND BUILDING STEEL VIA EXOTHERMIC CAD WELD AND PER NEC ART 250-80c REQUIREMENTS.
- ⑬ BOND METAL WATER PIPING AND OTHER METAL PIPING SYSTEMS PER NEC ART 250-80a&b REQUIREMENTS.

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FILE NUMBER: 56C1
APPL 03-104498
DATE: 08/24/01

NO.	DESCRIPTION	DATE	BY

DRAWN: DENISE CUNNINGHAM
CHECKED: CRAG HOOD
DATE: 08/24/01
JOB NO.: 99245

SHEET TITLE:
UNDERGROUND FEEDER DUCT PLAN

SHEET:
E2.1.1

UNDERGROUND FEEDER DUCT PLAN ①
SCALE: 1/8" = 1'-0"

Date: P:\99245\99245-1.dwg DATE: NOV 05, 2001 TIME: 8:37 AM
 PLOT: P:\99245\99245-1.dwg DATE: NOV 05, 2001 TIME: 8:37 AM

EMERGENCY POWER LOAD SUMMARY		
PANEL	KVA	AMPS 480V 3φ
'E'	45	54

TRANSFORMER SCHEDULE					
TAG	SIZE KVA	PRIMARY VOLTAGE	SECONDARY VOLTAGE	TEMP. RISE °C	REMARKS
TR1	2000	4160	480/277	0AFA	
TR2	500	480	208Y/120	80°C	

LOAD SUMMARY CALCULATIONS	
BUILDING - 90300 SQUARE FEET	LOAD
MSB-1 (DB)	= 448.2 KVA
MSB-2 (ELEVATOR 1)	= 50.0 KVA
MSB-3 (ELEVATOR 2)	= 50.0 KVA
MSB-4 (ELEVATOR 3)	= 50.0 KVA
MSB-5 (LP1)	= 58.9 KVA
MSB-6 (LP2)	= 58.2 KVA
MSB-7 (LP3)	= 17.2 KVA
MSB-8 (AC)	= 662.0 KVA
MSB-10 (SL)	= 20.0 KVA
MSB-11 (E)	= 33.7 KVA
TOTAL ON MSB = 1459.2 KVA	
IN AMPS AT 480 VAC 3φ = 1756 AMPS	

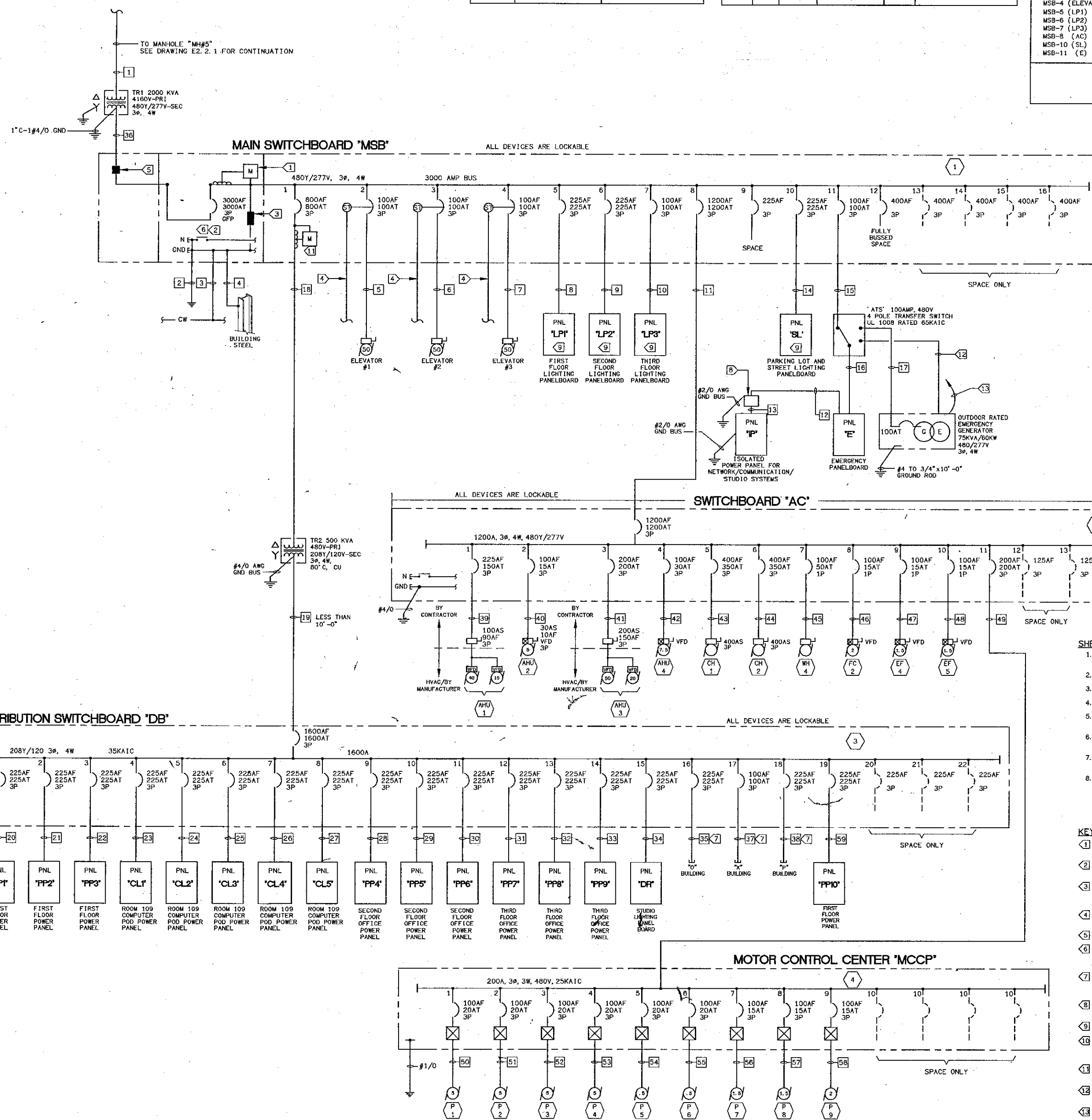
FEEDER SCHEDULE				
TAG	CONDUIT/CONDUCTOR	FROM	TO	APPROX. LENGTH
1	(2) 5" C-11	SOE	TR1	
2	1" C-#4/0 AWG GND	MSB	UFER	
3	1" C-#4/0 AWG GND	MSB	COLD WATER	
4	1" C-#4/0 AWG GND	MSB	BUILD STEEL	
5	1-1/4" C-#2 & 1#8 GND	MSB	ELEVATOR #1	
6	1-1/4" C-#2 & 1#8 GND	MSB	ELEVATOR #2	
7	1-1/4" C-#2 & 1#8 GND	MSB	ELEVATOR #3	
8	2-1/2" C-#4/0 & 1#4 GND	MSB	LP1	
9	2-1/2" C-#4/0 & 1#4 GND	MSB	LP2	
10	1-1/4" C-#2 & 1#8 GND	MSB	LP3	
11	(4) 4" C-#500MCM & 4/0 GND	MSB	AC	90'
12	1-1/4" C-#2 & 1#8 GND & 1#4 150 GND	'E'	TR2	
13	2" C-#1 & 1#6 GND & 1#4 150 GND	UPS/IP	IP	
14	2-1/2" C-#4/0 & 1#4 GND	MSB	SL	
15	1-1/4" C-#2 & 1#8 GND	MSB	ATS	
16	1-1/4" C-#2 & 1#8 GND	ATS	'E'	
17	1-1/2" C-#1 & 1#6 GND	EG	ATS	100'
18	(2) 4" C-500MCM & 1/0 GND	MSB	TR2	
19	(5) 4" C-500MCM & 500MCM GND	TR2	DB	
20	2-1/2" C-#4/0 & 1#4 GND	DB	PP1	
21	2-1/2" C-#4/0 & 1#4 GND	DB	PP2	
22	2-1/2" C-#4/0 & 1#4 GND	DB	PP3	
23	3" C-#5/4/0 & 1#4 GND & 1#4 150 GND	DB	CL1	
24	3" C-#5/4/0 & 1#4 GND & 1#4 150 GND	DB	CL2	
25	3" C-#5/4/0 & 1#4 GND & 1#4 150 GND	DB	CL3	
26	3" C-#5/4/0 & 1#4 GND & 1#4 150 GND	DB	CL4	
27	3" C-#5/4/0 & 1#4 GND & 1#4 150 GND	DB	CL5	
28	2-1/2" C-#4/0 & 1#4 GND	DB	PP4	
29	2-1/2" C-#4/0 & 1#4 GND	DB	PP5	
30	2-1/2" C-#4/0 & 1#4 GND	DB	PP6	
31	2-1/2" C-#4/0 & 1#4 GND	DB	PP7	
32	2-1/2" C-#4/0 & 1#4 GND	DB	PP8	
33	2-1/2" C-#4/0 & 1#4 GND	DB	PP9	
34	2-1/2" C-#4/0 & 1#4 GND	DB	DR	
35	2-1/2" C-#4/0 & 1#4 GND	DB	BLDG 'O'	
36	8 SETS OF 5" C-#500MCM & 1#500MCM GND	TR1	MSB	
37	1-1/4" C-#2 & 1#8 GND	DB	BLDG 'X'	
38	4" C-#500MCM & 1#2 GND	DB	BLDG 'P'	
39	2" C-#1/0 & 1#6 GND	AC	AHU-1	
40	1" C-#3/0 & 1#10 GND	AC	AHU-2	
41	2" C-#1/0 & 1#6 GND	AC	AHU-3	
42	1" C-#3/0 & 1#10 GND	AC	AHU-4	
43	4" C-#500MCM & 1#2 GND	AC	CH-1	
44	4" C-#500MCM & 1#2 GND	AC	CH-2	
45	1" C-#2#6 & 1#8 GND	AC	WH-4	
46	1" C-#3/0 & 1#10 GND	AC	FC-2	
47	1" C-#3/0 & 1#10 GND	AC	EF-4	
48	1" C-#3/0 & 1#10 GND	AC	EF-5	
49	2-1/2" C-#4/0 & 1#4 GND	AC	MCCP	
50	1" C-#3/0 & 1#10 GND	MCCP	P1	
51	1" C-#3/0 & 1#10 GND	MCCP	P2	
52	1" C-#3/0 & 1#10 GND	MCCP	P3	
53	1" C-#3/0 & 1#10 GND	MCCP	P4	
54	1" C-#3/0 & 1#10 GND	MCCP	P5	
55	1" C-#3/0 & 1#10 GND	MCCP	P6	
56	1" C-#3/0 & 1#10 GND	MCCP	P7	
57	1" C-#3/0 & 1#10 GND	MCCP	P8	
58	1" C-#3/0 & 1#10 GND	MCCP	P9	
59	2-1/2" C-#4/0 & 1#4 GND	DB	PP10	

FAULT ANALYSIS	
BUS	AFC
1	85,000
2	42,000
3	35,000
4	22,000

COORDINATION STUDY AND BREAKER SETTINGS TO BE PROVIDED BY SWITCHGEAR MANUFACTURER

- SHEET NOTES:**
- ALL DEVICES ARE NEW UNLESS OTHERWISE NOTED AS EXISTING.
 - FEEDER LENGTHS NOTED ARE APPROXIMATE.
 - ALL COPPER WATER SERVICES BONDED PER NEC 250.
 - ALL TRANSFORMERS ARE BONDED TO BUILDING STEEL.
 - ALL GROUNDING ELECTRODE CONNECTIONS SHALL BE EXOTHERMIC WELD TYPE.
 - PROVIDE CONNECTED SERIES RATING PER NEC AND PANEL SCHEDULES WHERE REQUIRED.
 - GROUND FAULT PROTECTION ON MAIN SHALL BE VERIFIED BY INDEPENDENT TESTING LAB.
 - CONTRACTOR TO USE LUG REDUCERS WHEN DOWN SIZING CONDUCTOR FOR DEVICES WHEN VOLTAGE DROP WAS CONSIDERED.

- KEY NOTES:**
- SQUARE-D CM 2350 CIRCUIT MONITOR WITH SOFTWARE.
 - PROVIDE MAIN SWITCHBOARD WITH PHASE LOSS PROTECTION.
 - 120KA/PHASE TRANSIENT SURGE SUPPRESSOR WITH FILTERING, FUSES, AND STATUS INDICATING LIGHTS.
 - 3/4" C-2#12 TO FACP FOR ELEVATOR POWER SHUNT TRIP ON FIRE SPRINKLER WATER FLOW.
 - LANDING LUGS PROVIDED BY CONTRACTOR.
 - GROUND FAULT PROTECTION ON MAIN SHALL BE TESTED AND REPORT PROVIDED BY INDEPENDENT TESTING LAB.
 - INTERCEPT EXISTING FEEDER AND EXTEND FROM TEMP. POWER SERVICE PAD TO NEW "DB" SERVICE POINT.
 - UPS, TOSHIBA - U4103F250 06TMB WITH BATTERY #41-BC-2507, 4100 SERIES 25KVA.
 - SQUARE D "AS" PANEL BOARD SEE E-2.3.
 - PROVIDE ONE CONDUIT WITH OKONITE 3#4/0 AWG 15KV, 133% RATED COPPER, EPR, SHIELDED CABLE AND #4/0 GND.
 - SQUARE-D PM-620 CIRCUIT MONITOR WITH POWER LOGIC SOFTWARE.
 - CONTROL CONDUIT 1" C-10#10 & 1#10 GROUND (VERIFY WITH MANUFACTURER).
 - POWER CONDUIT FOR BATTERY CHARGER, BLOCK HEATER ETC. FEED FROM PANEL XX-XX.



ELECTRICAL SINGLE LINE DIAGRAM
SCALE NONE 1

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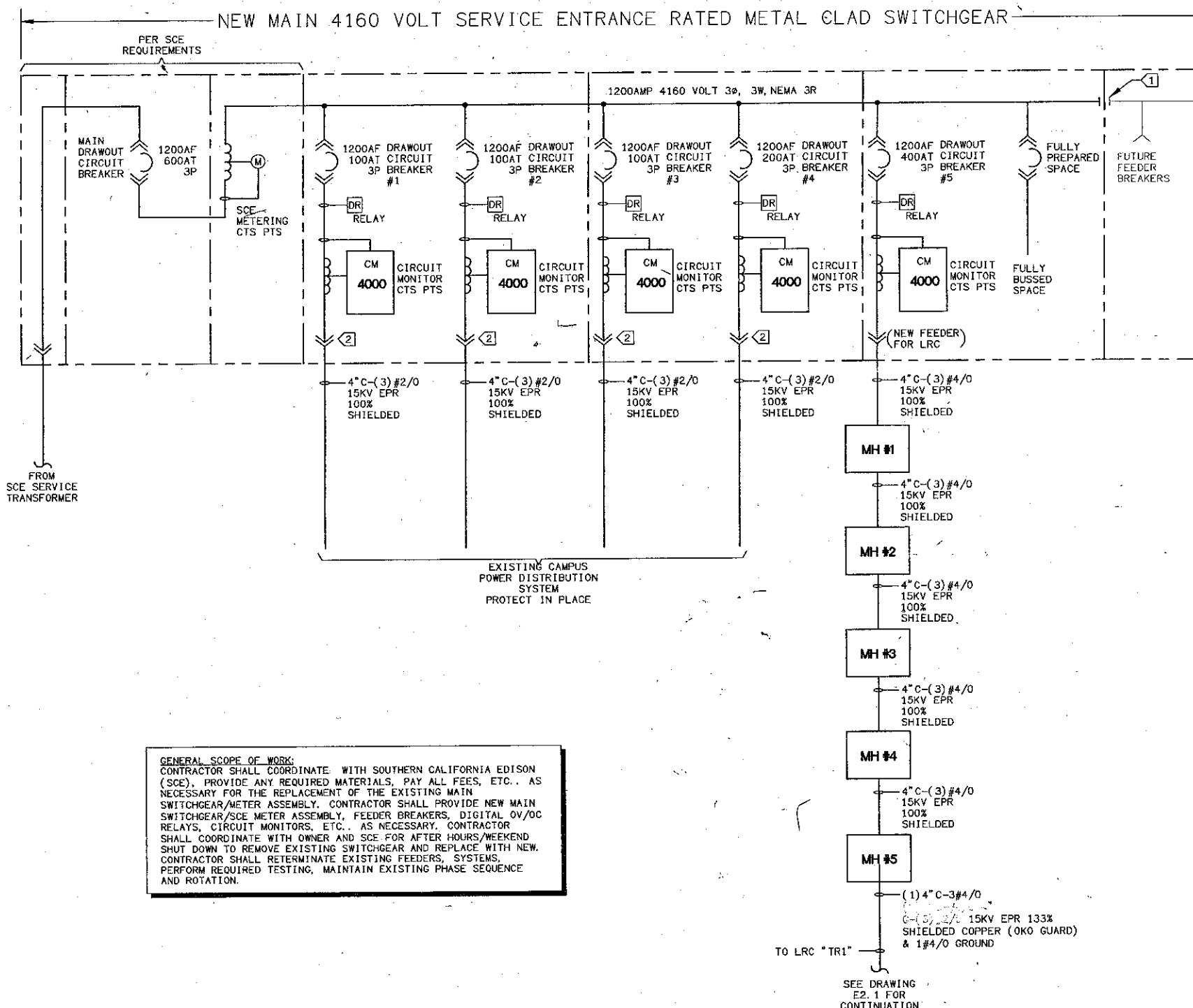
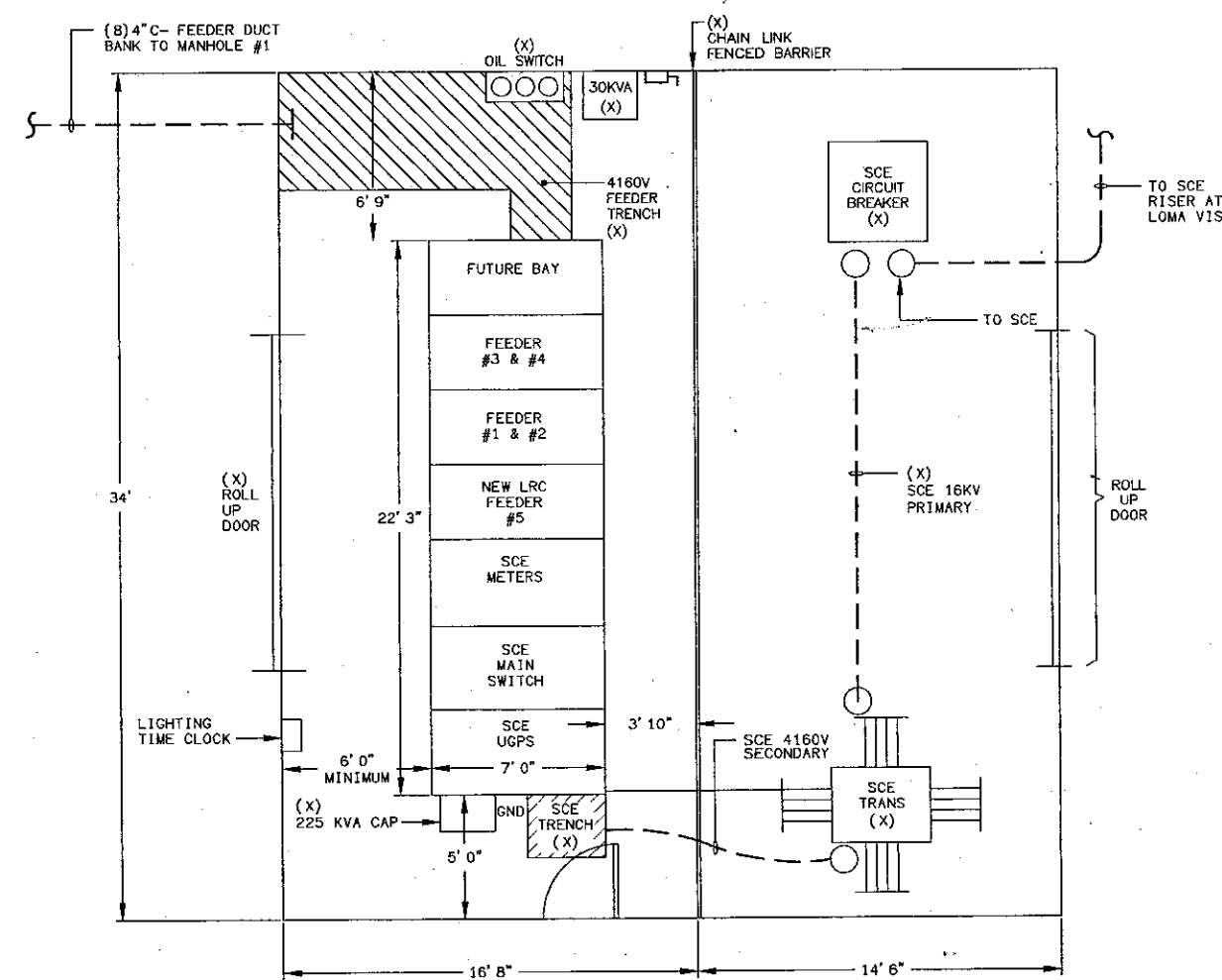
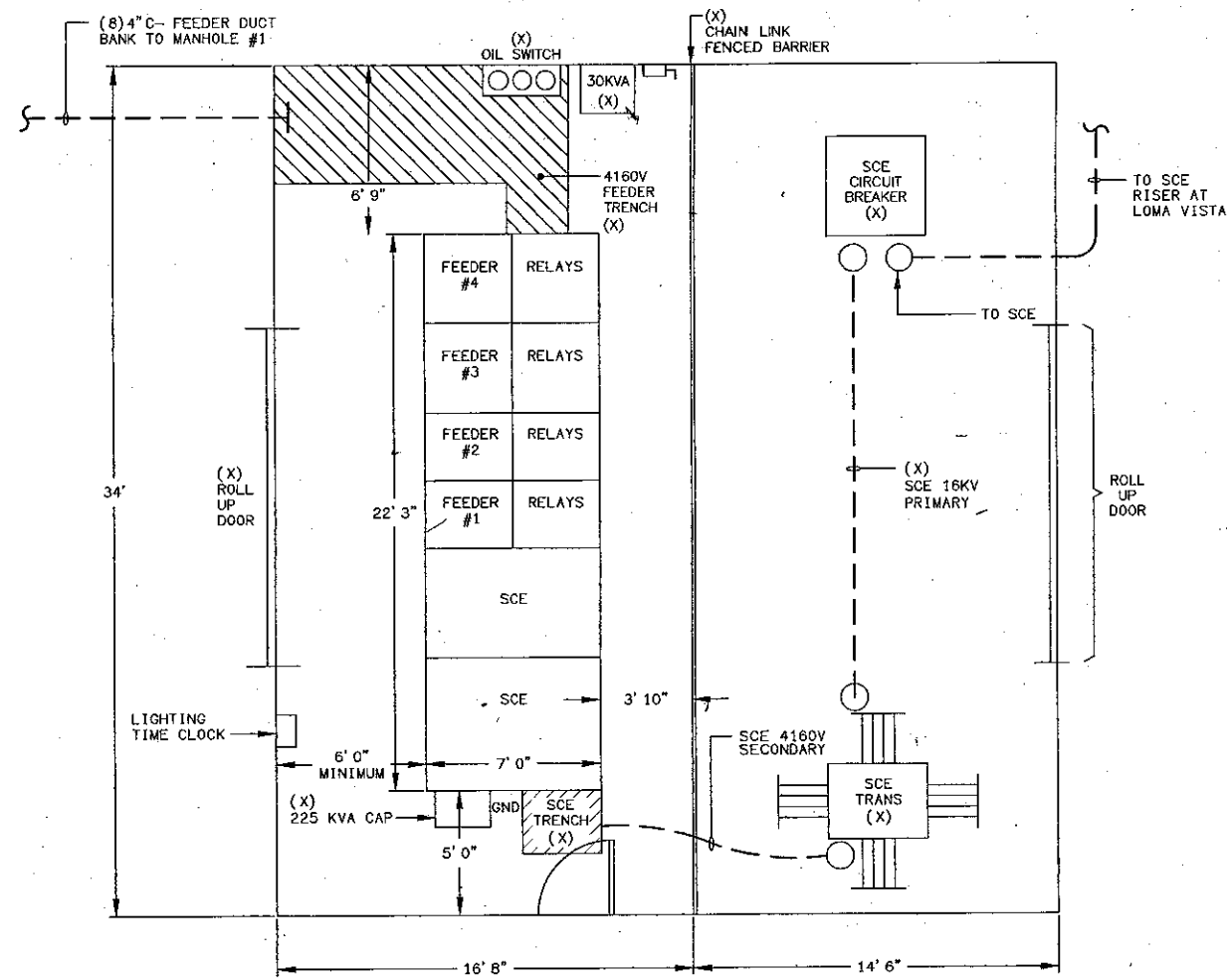
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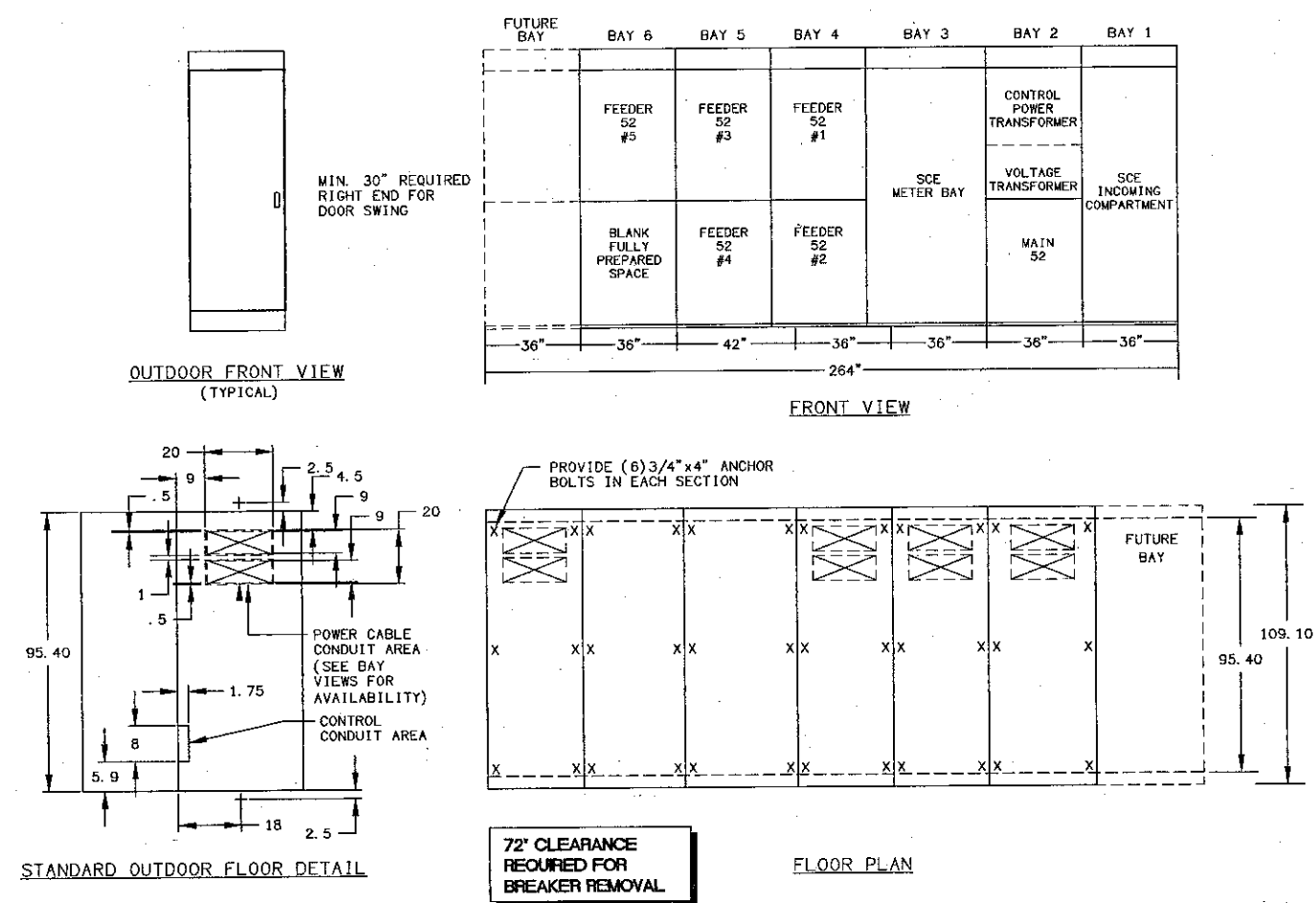
NO.	DESCRIPTION	DATE	BY

DRAWN: DENISE CUNNINGHAM
CHECKED: CRAIG HOOD
DATE: 09/24/01
JOB NO.: 99245
SHEET TITLE: ELECTRICAL SINGLE LINE DIAGRAM
SHEET: E2.2



GENERAL SCOPE OF WORK:
CONTRACTOR SHALL COORDINATE WITH SOUTHERN CALIFORNIA EDISON (SCE), PROVIDE ANY REQUIRED MATERIALS, PAY ALL FEES, ETC., AS NECESSARY FOR THE REPLACEMENT OF THE EXISTING MAIN SWITCHGEAR/METER ASSEMBLY. CONTRACTOR SHALL PROVIDE NEW MAIN SWITCHGEAR/SCE METER ASSEMBLY, FEEDER BREAKERS, DIGITAL OV/DC RELAYS, CIRCUIT MONITORS, ETC., AS NECESSARY. CONTRACTOR SHALL COORDINATE WITH OWNER AND SCE FOR AFTER HOURS/WEEKEND SHUT DOWN TO REMOVE EXISTING SWITCHGEAR AND REPLACE WITH NEW. CONTRACTOR SHALL REITERATE EXISTING FEEDERS, SYSTEMS, PERFORM REQUIRED TESTING, MAINTAIN EXISTING PHASE SEQUENCE AND ROTATION.

MEDIUM VOLTAGE SINGLE LINE DIAGRAM (1)
SCALE: NONE



- SHEET NOTES:**
- VERIFY LOCATION OF ALL BUILDINGS AND APPENDICES ON ARCHITECTURAL AND CIVIL PLANS.
 - CONTRACTOR SHALL VERIFY LOCATION AND REQUIREMENTS OF ALL ELECTRICAL DEVICES PRIOR TO BID. ROUGH-IN AND INSTALLATION.
 - CONTRACTOR SHALL, IN ROUTING ALL CIRCUITS, INCREASE CONDUIT AND CONDUIT SIZE TO ALLOW FOR VOLTAGE DROP SHOULD THE CONTRACTOR EXCEED ROUTING INDICATED ON DRAWING. ENGINEER OF RECORD MUST BE NOTIFIED PRIOR TO ANY DEVIATIONS FROM APPROVED PLAN CHECK (PERMIT SET) DRAWINGS.
 - FIELD VERIFY LOCATION OF AND PROTECT ALL UNDERGROUND UTILITIES PRIOR TO TRENCHING. SCHEDULE AND COORDINATE ALL SITE WORK WITH OWNER PRIOR TO ANY TRENCHING. CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ALL COSTS TO REPAIR ANY SYSTEMS DAMAGED DURING THE COURSE OF CONSTRUCTION.
 - ALL CONDUIT RISERS SHALL BE PVC COATED RIGID STEEL.
 - CONTRACTOR SHALL COORDINATE AND PROVIDE ALL SITE ELECTRICAL SERVICE REQUIREMENTS WITH OWNER.
 - ALL SERVICE ENTRANCE EQUIPMENT SHOP DRAWINGS SHALL BE SUBMITTED TO THE SERVING UTILITY PRIOR TO SUBMITTING TO ELECTRICAL ENGINEER FOR APPROVAL.
 - VERIFY LOCATION OF ALL EQUIPMENT AND DEVICES ON ARCHITECTURAL AND CIVIL PLANS.
 - MINIMUM CONDUIT BURIAL DEPTH IS 24" 36" MINIMUM BELOW STREETS & PARKING LOTS FOR 0-600 VOLT SYSTEMS.
 - CONTRACTOR TO PROVIDE GROUND CONDUCTORS IN ALL CONDUITS.
 - 1" CONDUIT MINIMUM UNDERGROUND.
 - COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES, AND WIRING REQUIRED WHETHER SHOWN ON ELECTRICAL DRAWINGS OR NOT.
 - CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL CONDUCTORS PER CONDUCTOR MANUFACTURERS RECOMMENDATIONS, PER THE NATIONAL ELECTRICAL CODE AND PER LOCAL AUTHORITIES HAVING JURISDICTION.
 - CONTRACTOR SHALL FIELD VERIFY ALL SITE WORK DIMENSIONS PRIOR TO SUBMITTING BID PROPOSAL, ROUGH-IN, AND INSTALLATION.

- KEY NOTES:**
- PROVIDE FULLY BUSSED ASSEMBLY FOR (2) FUTURE FEEDER BREAKER SECTIONS.
 - PROTECT EXISTING FEEDER AND REITERATE AS NECESSARY TO NEW FEEDER BREAKER ASSEMBLY.
 - PROTECT EXISTING SCE SERVICE FEEDER. COORDINATE WITH SCE FOR REITERATION OF EXISTING FEEDER TO NEW MAIN BREAKER.

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NO.	DESCRIPTION	DATE	BY

DRAWN: DENISE CUNNINGHAM
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DATE: 09/24/01
JOB NO.: 99245
SHEET TITLE: MEDIUM VOLTAGE ELECTRICAL SINGLE LINE DIAGRAM
SHEET: E2.1

PANEL NUMBER		CL2		VOLTAGE 208/120 PHASE 3 WIRE 4		NEMA 1 COPPER BUSS											
SOURCE		DB-5		A.I.C. 42,000 SERIES RATED		MAIN LUGS ONLY											
PANEL LOCATION		ROOM 109		BUS AMPERE RATING 225		SURFACE MOUNTING											
CIRCUIT	DESCRIPTION	LOAD (VA)			BRKR	POLE	AMP	PHASE	CIRCUIT	DESCRIPTION	LOAD (VA)			BRKR	POLE	AMP	PHASE
		A	B	C							A	B	C				
1	WORK STATION (WS#6)	900	900	900	1	20	1	A	2	WORK STATION (WS#9)	900	900	900	2	20	1	B
3	WS#6 PRINTER	900	900	900	3	20	1	A	4	WORK STATION (WS#10)	900	900	900	4	20	1	B
5	WORK STATION (WS#7)	900	900	900	5	20	1	A	6	WORK STATION (WS#11)	900	900	900	6	20	1	B
7	WS#7 PRINTER	900	900	900	7	20	1	A	8	WORK STATION (WS#12)	900	900	900	8	20	1	B
9	WORK STATION (WS#8)	900	900	900	9	20	1	A	10	WORK STATION (WS#13)	900	900	900	10	20	1	B
11	WS#8 PRINTER	900	900	900	11	20	1	A	12	WORK STATION (WS#14)	900	900	900	12	20	1	B
13	WORK STATION (WS#9)	900	900	900	13	20	1	A	14	WORK STATION (WS#15)	900	900	900	14	20	1	B
15	WS#9 PRINTER	900	900	900	15	20	1	A	16	WORK STATION (WS#16)	900	900	900	16	20	1	B
17	WORK STATION (WS#10)	900	900	900	17	20	1	A	18	WORK STATION (WS#17)	900	900	900	18	20	1	B
19	WS#10 PRINTER	900	900	900	19	20	1	A	20	WORK STATION (WS#18)	900	900	900	20	20	1	B
21	WORK STATION (WS#11)	900	900	900	21	20	1	A	22	WORK STATION (WS#19)	900	900	900	22	20	1	B
23	WS#11 PRINTER	900	900	900	23	20	1	A	24	WORK STATION (WS#20)	900	900	900	24	20	1	B
25	WORK STATION (WS#12)	900	900	900	25	20	1	A	26	WORK STATION (WS#21)	900	900	900	26	20	1	B
27	WS#12 PRINTER	900	900	900	27	20	1	A	28	WORK STATION (WS#22)	900	900	900	28	20	1	B
29	WORK STATION (WS#13)	900	900	900	29	20	1	A	30	WORK STATION (WS#23)	900	900	900	30	20	1	B
31	WS#13 PRINTER	900	900	900	31	20	1	A	32	WORK STATION (WS#24)	900	900	900	32	20	1	B
33	WORK STATION (WS#14)	900	900	900	33	20	1	A	34	WORK STATION (WS#25)	900	900	900	34	20	1	B
35	WS#14 PRINTER	900	900	900	35	20	1	A	36	WORK STATION (WS#26)	900	900	900	36	20	1	B
37	WORK STATION (WS#15)	900	900	900	37	20	1	A	38	WORK STATION (WS#27)	900	900	900	38	20	1	B
39	WS#15 PRINTER	900	900	900	39	20	1	A	40	WORK STATION (WS#28)	900	900	900	40	20	1	B
41	WORK STATION (WS#16)	900	900	900	41	20	1	A	42	WORK STATION (WS#29)	900	900	900	42	20	1	B
42	WS#16 PRINTER	900	900	900	42	20	1	A									
TOTALS		6300	6300	6300						TOTALS	6300	6300	6300				
L.C.L. VOLT AMPS:		0			PHASE A 0			PHASE B 0			PHASE C 0						
TOTAL VOLT AMPS:		37800			PHASE A 12600			PHASE B 12600			PHASE C 12600						
TOTAL AMPS:		105.0			PHASE A 105.0			PHASE B 105.0			PHASE C 105.0						
200X NEUTRAL BUS AND DOUBLE LUGS: ISO GROUND BUS																	

PANEL NUMBER		IP		VOLTAGE 208/120 PHASE 3 WIRE 4		NEMA 1 COPPER BUSS											
SOURCE		UPS		A.I.C. 22000 SERIES RATED		MAIN CIRCUIT BREAKER 100											
PANEL LOCATION		ROOM #154		BUS AMPERE RATING 225		SURFACE MOUNTING											
CIRCUIT	DESCRIPTION	LOAD (VA)			BRKR	POLE	AMP	PHASE	CIRCUIT	DESCRIPTION	LOAD (VA)			BRKR	POLE	AMP	PHASE
		A	B	C							A	B	C				
1	ROOM 171 OUTLETS	360	360	360	1	20	1	A	2	ROOM NO 154 RACKS	360	360	360	2	20	1	B
3	ROOM NO 154 RACKS	360	360	360	3	20	1	A	4	ROOM NO 137 RACKS	360	360	360	4	20	1	B
5	ROOM NO 137 RACKS	360	360	360	5	20	1	A	6	ROOM NO 154 RACKS	360	360	360	6	20	1	B
7	ROOM NO 154 RACKS	360	360	360	7	20	1	A	8	ROOM NO 137 RACKS	360	360	360	8	20	1	B
9	ROOM NO 137 RACKS	360	360	360	9	20	1	A	10	ROOM NO 154 RACKS	360	360	360	10	20	1	B
11	ROOM NO 154 RACKS	360	360	360	11	20	1	A	12	ROOM NO 137 RACKS	360	360	360	12	20	1	B
13	ROOM NO 137 RACKS	360	360	360	13	20	1	A	14	ROOM NO 154 RACKS	360	360	360	14	20	1	B
15	ROOM NO 154 RACKS	360	360	360	15	20	1	A	16	ROOM NO 137 RACKS	360	360	360	16	20	1	B
17	ROOM NO 137 RACKS	360	360	360	17	20	1	A	18	ROOM NO 154 RACKS	360	360	360	18	20	1	B
19	ROOM NO 154 RACKS	360	360	360	19	20	1	A	20	ROOM NO 137 RACKS	360	360	360	20	20	1	B
21	ROOM NO 137 RACKS	360	360	360	21	20	1	A	22	ROOM NO 154 RACKS	360	360	360	22	20	1	B
23	ROOM NO 154 RACKS	360	360	360	23	20	1	A	24	ROOM NO 137 RACKS	360	360	360	24	20	1	B
25	ROOM NO 137 RACKS	360	360	360	25	20	1	A	26	ROOM NO 154 RACKS	360	360	360	26	20	1	B
27	ROOM NO 154 RACKS	360	360	360	27	20	1	A	28	ROOM NO 137 RACKS	360	360	360	28	20	1	B
29	ROOM NO 137 RACKS	360	360	360	29	20	1	A	30	ROOM NO 154 RACKS	360	360	360	30	20	1	B
31	ROOM NO 154 RACKS	360	360	360	31	20	1	A	32	ROOM NO 137 RACKS	360	360	360	32	20	1	B
33	ROOM NO 137 RACKS	360	360	360	33	20	1	A	34	ROOM NO 154 RACKS	360	360	360	34	20	1	B
35	ROOM NO 154 RACKS	360	360	360	35	20	1	A	36	ROOM NO 137 RACKS	360	360	360	36	20	1	B
37	ROOM NO 137 RACKS	360	360	360	37	20	1	A	38	ROOM NO 154 RACKS	360	360	360	38	20	1	B
39	ROOM NO 154 RACKS	360	360	360	39	20	1	A	40	ROOM NO 137 RACKS	360	360	360	40	20	1	B
41	ROOM NO 137 RACKS	360	360	360	41	20	1	A	42	ROOM NO 154 RACKS	360	360	360	42	20	1	B
42	SPARE				42	20	1	A		SPARE							
TOTALS		1800	1800	1800						TOTALS	1800	1800	1800				
L.C.L. VOLT AMPS:		0			PHASE A 0			PHASE B 0			PHASE C 0						
TOTAL VOLT AMPS:		10800			PHASE A 3600			PHASE B 3600			PHASE C 3600						
TOTAL AMPS:		30.0			PHASE A 30.0			PHASE B 30.0			PHASE C 30.0						
PROVIDE WITH ISOLATED GROUND BUSS																	

PANEL NUMBER		PP7		VOLTAGE 208/120 PHASE 3 WIRE 4		NEMA 1 COPPER BUSS											
SOURCE		DB-12		A.I.C. 42,000 SERIES RATED		MAIN CIRCUIT BREAKER 225											
PANEL LOCATION		3RD FLOOR		BUS AMPERE RATING 225		SURFACE MOUNTING											
CIRCUIT	DESCRIPTION	LOAD (VA)			BRKR	POLE	AMP	PHASE	CIRCUIT	DESCRIPTION	LOAD (VA)			BRKR	POLE	AMP	PHASE
		A	B	C							A	B	C				
1	RMS 352, 355, 357, 358	900	900	900	1	20	1	A	2	ROOM 360	360	360	2	20	1	B	
3	ROOM 360	360	360	360	3	20	1	A	4	ROOM 354	360	360	4	20	1	B	
5	ROOM 354	360	360	360	5	20	1	A	6	AHU 3 CONTROLS	500	500	6	15	2	B	
7	AHU 3 CONTROLS	500	500	500	7	15	2	B	8	AHU 1 CONTROLS	500	500	8	15	2	B	
9	AHU 1 CONTROLS	500	500	500	9	15	2	B	10	CH-1 CONTROLS	500	500	10	15	2	B	
11	CH-1 CONTROLS	500	500	500	11	15	2	B	12	CH-2 CONTROLS	500	500	12	15	2	B	
13	CH-2 CONTROLS	500	500	500	13	15	2	B	14	MAINT. OUTLETS	540	540	14	15	2	B	
15	MAINT. OUTLETS	540	540	540	15	15	2	B	16	BOILER 1	1728	1728	16	15	2	B	
17	BOILER 1	1728	1728	1728	17	15	2	B	18	BOILER 2	1728	1728	18	15	2	B	
19	BOILER 2	1728	1728	1728	19	15	2	B	20	WH 1	100	100	20	15	2	B	
21	WH 1	100	100	100	21	15	2	B	22	COMM ROOM 327	1200	1200	22	15	2	B	
23	COMM ROOM 327	1200	1200	1200	23	15	2	B	24	COMM ROOM 339	500	500	24	15	2	B	
25	COMM ROOM 339	500	500	500	25	15	2	B	26	EXHAUST FANS	1200	1200	26	15	2	B	
27	EXHAUST FANS	1200	1200	1200	27	15	2	B	28	EXHAUST FANS	1200	1200	28	15	2	B	
29	EXHAUST FANS	1200	1200	1200	29	15	2	B	30	EXHAUST FANS	1200	1200	30	15	2	B	
31	EXHAUST FANS	1200	1200	1200	31	15	2	B	32	EXHAUST FANS	1200	1200	32	15	2	B	
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35	EXHAUST FANS	1200	1200	1200	35	15	2	B	36	EXHAUST FANS	1200	1200	36	15	2	B	
37	EXHAUST FANS	1200	1200	1200	37	15	2	B	38	EXHAUST FANS	1200	1200	38	15	2	B	
39	EXHAUST FANS	1200	1200	1200	39	15	2	B	40	EXHAUST FANS	1200	1200	40	15	2	B	
41	EXHAUST FANS	1200	1200	1200													

SHEET NOTES:

1. SETUP PARAMETERS AS FOLLOWS: 9600 BAUD COM PORT, NETWORK SIZE 31 DEVICES.
2. ELECTRICAL CONTRACTOR TO SUPPLY AND INSTALL BELDEN #8723 NETWORK CABLE BETWEEN FIELD CONNECTED TERMINATION POINTS.
3. BELDEN #8723 FIELD CONNECTIONS MUST BE COLOR-CODED TO MATCH FACTORY WIRING AT THE TERMINAL BLOCKS AND TERMINAL CONNECTIONS.
4. SQUARE D ENGINEERING SERVICES TO FURNISH ALL NETWORK HARDWARE AND CABLES INCLUDING COMPUTER AND SOFTWARE. SQUARE D TO COMPLETE SYSTEM INSTALLATION 3 WEEKS PRIOR TO OPENING.
5. CONTRACTOR TO FURNISH AND INSTALL ALL BELDEN #8723 AND TERMINAL BLOCKS, AND CONNECT NETWORK DEVICES PER WIRING DIAGRAMS.
6. PC TO BE LOCATED IN ENVIRONMENTALLY-CONTROLLED SPACE, AND CONNECTED TO STABLE 120VAC POWER SOURCE.
7. IT IS RECOMMENDED TO MOUNT NEW POWERLINK PANELBOARDS SUCH THAT CONTROL MODULES ARE AT APPROX. 60-IN. AFF OR 'EYE LEVEL' WHEN INSTALLED.
8. TERMINAL BLOCK TO BE CURTIS INDUSTRIES CAT. #6BSX-5 OR EQUAL, AND MOUNTED IN ACCESSIBLE LOCATION. CONTRACTOR TO FURNISH AND INSTALL ALL BELDEN #8723 CABLE PER NETWORK WIRING DIAGRAMS FROM TERMINAL BLOCK TO LAST PANEL. FIELD VERIFY WITH SQUARE D.

LIGHTING CONTROL SEQUENCE OF OPERATION:

EXTERIOR AREAS:

ALL EXTERIOR LIGHTING INCLUDING LANDSCAPE LIGHTING, PEDESTRIAN WALKWAYS AND EXTERIOR SORFITS SHALL BE CONTROLLED BY PHOTOCELL ON AT DUSK. POWERLINK PROGRAMMED OFF BY ZONE AT A TIME DETERMINED BY THE OWNER. PROGRAMMING OF ALL LIGHTING CONTROL IS BY CONTRACTOR VIA SQUARE D FACTORY START-UP.

INTERIOR AREAS:

ALL INTERIOR LIGHTING SYSTEMS, EXCEPT EMERGENCY, SHALL BE CONTROLLED BY POWERLINK SYSTEM FOR AFTER HOURS AUTOMATIC SHUT OFF AT A TIME DETERMINED BY THE OWNER. EACH 5000 SQUARE FOOT OF OFFICE SHALL BE PROVIDED WITH AUTOMATIC LIGHTING SHUT OFF OVERRIDE SWITCH PER TITLE 24 REQUIREMENTS. PROVIDE ILLUMINATED OVERRIDE SWITCH AND ENGRAVED COVER PLATE DENOTING AREAS CONTROLLED. PROGRAMMING IS BY CONTRACTOR.

POWERLINK® G3 INPUT/EVENT SCHEDULE

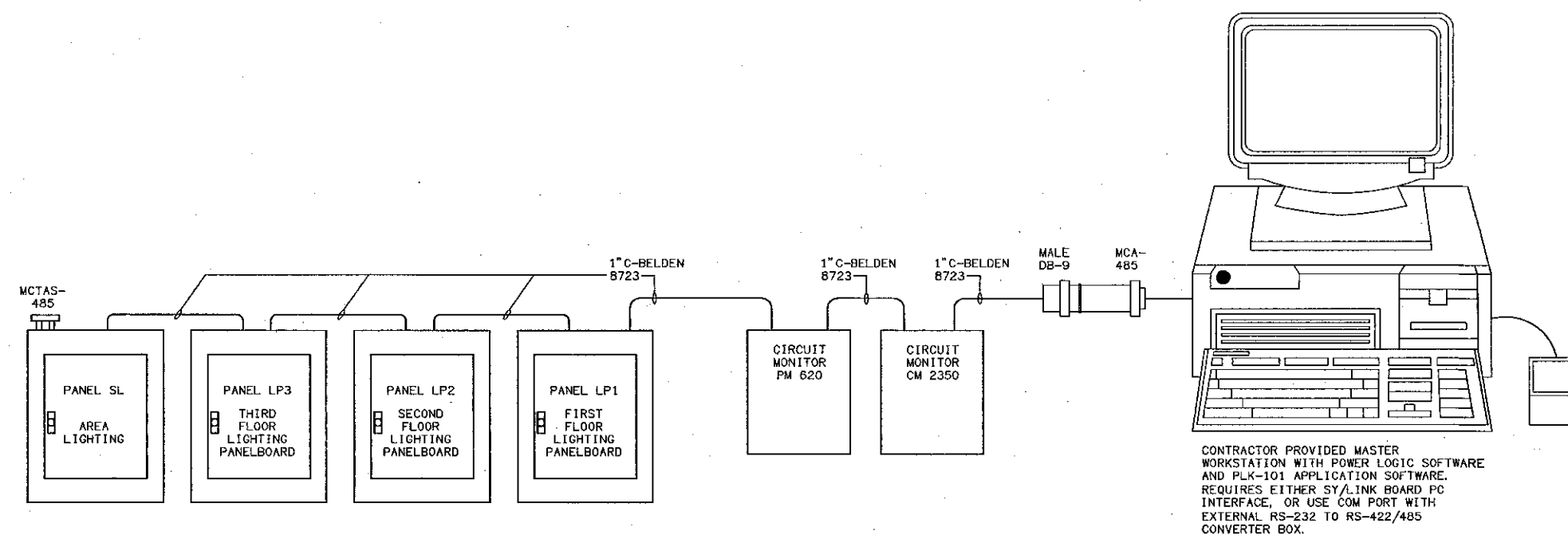
INPUT # PROGRAM # SPECIAL #	NAME	EVENT					OUTPUT ACTION				
		INPUT		TIME			ON		OFF		BLINK NOTICE
		INPUT TYPE	TIMER	TIME HH-MM	DAY(S) SMTWTF	SPECIAL DATES	ZONE(S)	CIRCUIT(S)	ZONE(S)	CIRCUIT(S)	
11	STAFF OFFICES	MON					1	LP1-2	SWEEP OFF	END OF DAY	YES
12		MON					2		SWEEP OFF	END OF DAY	YES
13		MON					3		SWEEP OFF	END OF DAY	YES
14		MON					4		SWEEP OFF	END OF DAY	YES
15		MON					5		SWEEP OFF	END OF DAY	YES
16		MON					6		SWEEP OFF	END OF DAY	YES

NOTES:
REFER TO SPECIAL DATE SCHEDULE FOR SPECIAL DATE PERIODS.
BLINK NOTICE APPLIES ONLY TO SCHEDULED "OFF" EVENTS AND INPUTS WITH TIMED "OFF".

POWERLINK® G3 INPUT/EVENT SCHEDULE

INPUT # PROGRAM # SPECIAL #	NAME	EVENT					OUTPUT ACTION				
		INPUT		TIME			ON		OFF		BLINK NOTICE
		INPUT TYPE	TIMER	TIME HH-MM	DAY(S) SMTWTF	SPECIAL DATES	ZONE(S)	CIRCUIT(S)	ZONE(S)	CIRCUIT(S)	
P1				7:30 AM	SMTWTF						YES
P1				7:30 AM	SMTWTF						YES
P1				7:30 AM	SMTWTF						YES
P1				7:30 AM	SMTWTF						YES
P1				7:30 AM	SMTWTF						YES
P2				10:00 PM	MTWTF						YES
P2				10:00 PM	MTWTF						YES
P2				10:00 PM	MTWTF						YES
P2				10:00 PM	MTWTF						YES
P2				10:00 PM	MTWTF						YES
P3				DUSK	ALL						YES
P3				DUSK	ALL						YES
P4				12:00 AM	ALL						YES
P5				5:00 AM	ALL						YES
P6				DAWN	ALL						YES
P7				5:30 AM	MTWTF						YES
P7				5:30 AM	MTWTF						YES
P8				8:30 AM	MTWTF						YES
P8				8:30 AM	MTWTF						YES

NOTES:
REFER TO SPECIAL DATE SCHEDULE FOR SPECIAL DATE PERIODS.
BLINK NOTICE APPLIES ONLY TO SCHEDULED "OFF" EVENTS AND INPUTS WITH TIMED "OFF".



POWERLINK LIGHTING CONTROL DIAGRAM
SCALE: NONE 1



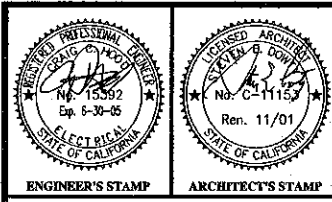
KRUGER BENSEN ZIEMER ARCHITECTS, INC. AIA
30 W. ARELLANO SANTA BARBARA, CA 93101
805/963.1726

STEVE DOWTY, A.I.A.
PRINCIPAL IN CHARGE

THIERRY H. CASSAN
PROJECT DESIGNER

JOHN S. ASSAULTER INC.
CONSULTING ELECTRICAL ENGINEERS
2525 OGDEN WALKER, #510
CARMEL, CA 95008-8084
(805) 889-8530 FAX (805) 389-8510

VENTURA COLLEGE LEARNING RESOURCES CENTER
Ventura County Community College District
Ventura, CA 93003
4667 Telegraph Road

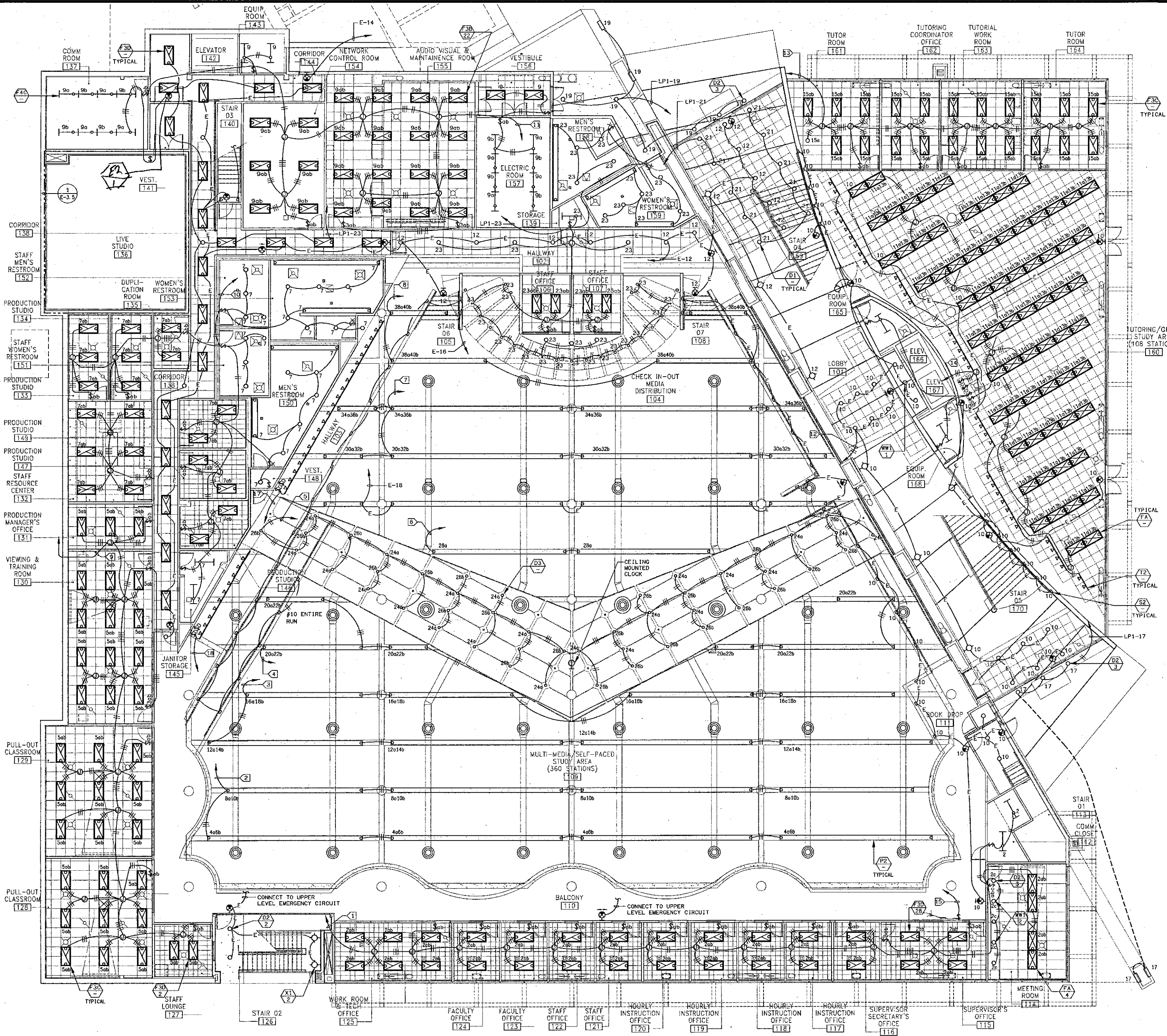


IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
FILE NUMBER: 5621
APR 03-104498
NO. X FILE NO. 88 NOV
DATE 11/1/01

NO.	DESCRIPTION	DATE	BY

DRAWN: DENISE CUNNINGHAM
CHECKED: CRAIG HOOD
DATE: 09/24/01
JOB NO.: 99245
SHEET TITLE:

LIGHTING CONTROL SCHEDULE
SHEET: E2.6



FIRST FLOOR LIGHTING PLAN ①
SCALE: 1/8" = 1'-0"

SHEET NOTES:

1. CONTRACTOR SHALL VERIFY LOCATION, CEILING TYPE, TRIM, AND REQUIREMENTS OF ALL LIGHT FIXTURES AND CONTROL PRIOR TO BID PROPOSAL, ROUGH-IN, AND FINISH INSTALLATION.
2. CONTRACTOR SHALL, IN ROUTING ALL CIRCUITS, INCREASE CONDUCTOR & CONDUIT SIZE TO ALLOW FOR VOLTAGE DROP SHOULD THE CONTRACTOR EXCEED ROUTING INDICATED ON DRAWING. ENGINEER OF RECORD MUST BE NOTIFIED PRIOR TO ANY DEVIATIONS FROM APPROVED PLAN CHECK (PERMIT SET) DRAWINGS.
3. CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL CONDUCTORS PER CONDUCTOR MANUFACTURERS RECOMMENDATIONS, PER THE NATIONAL ELECTRICAL CODE AND PER LOCAL AUTHORITIES HAVING JURISDICTION.
4. 3/4" CONDUIT AND #10 AWG MINIMUM UNLESS OTHERWISE NOTED.
5. ALL LIGHTING FIXTURES SHALL BE SECONDARILY SUPPORTED WITH SAFETY CABLES, PROVIDED BY CONTRACTOR.
6. VERIFY LOCATION OF ALL DEVICES ON ARCHITECTURAL PLANS.
7. MAINTAIN A MAXIMUM 2% VOLTAGE DROP ON ALL LIGHTING HOMERUNS.
8. ALL EXIT SIGNS ARE +12" TO CENTER LINE OF FIXTURE ABOVE DOOR FRAME UNLESS OTHERWISE NOTED.
9. CONTRACTOR SHALL PROVIDE ALL BACKING, BRACKETS, SUPPORTS, AND MOUNTING HARDWARE NECESSARY TO PROPERLY INSTALL LIGHTING FIXTURES.
10. VERIFY THE EXACT ROUTING OF ALL EXPOSED CONDUIT WITH OWNER PRIOR TO INSTALLATION.
11. COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES, AND WIRING REQUIRED WHETHER SHOWN ON ELECTRICAL DRAWINGS OR NOT.
12. PROVIDE CODE SIZED EQUIPMENT GROUNDING CONDUCTOR IN ALL LIGHTING SYSTEM CONDUITS.
13. ALL LIGHTING FIXTURES, EXCEPT EMERGENCY, SHALL BE CONTROLLED BY POWER LINK PANELBOARD LIGHTING CONTROL RELAY SYSTEM UNLESS OTHERWISE NOTED.

KEY NOTES:

- ① LP1-2; 3/4"C-2#10 & 1#10 GND; ENTIRE RUN #10 AWG; LIGHTING CONTROL ZONE 1.
- ② LP1-4-6-8-10; 3/4"C-6#10 & 1#10 GND; ENTIRE RUN #10 AWG.
- ③ LP1-12-14-16-18; 3/4"C-6#10 & 1#10 GND; ENTIRE RUN #10 AWG.
- ④ LP1-20-22; 3/4"C-3#10 & 1#10 GND; ENTIRE RUN #10 AWG.
- ⑤ LP1-24-26; 3/4"C-3#10 & 1#10 GND; ENTIRE RUN #10 AWG.
- ⑥ LP1-28; 3/4"C-2#10 & 1#10 GND; ENTIRE RUN #10 AWG.
- ⑦ LP1-30-32-34-36; 3/4"C-6#10 & 1#10 GND; ENTIRE RUN #10 AWG.
- ⑧ LP1-38-40; 3/4"C-3#10 & 1#10 GND; ENTIRE RUN #10 AWG.
- ⑨ LP1-5; 3/4"C-2#10 & 1#10 GND; ENTIRE RUN #10 AWG.
- ⑩ LP1-7; 3/4"C-2#10 & 1#10 GND; ENTIRE RUN #10 AWG.
- ⑪ LP1-9; 3/4"C-2#10 & 1#10 GND; ENTIRE RUN #10 AWG.
- ⑫ E-10; 3/4"C-2#10 & 1#10 GND; ENTIRE RUN #10 AWG.
- ⑬ LP1-15; 3/4"C-2#10 & 1#10 GND; ENTIRE RUN #10 AWG.
- ⑭ PP2-40-42; 3/4"C-3#10 & 1#10 GND; ENTIRE RUN #10 AWG.
- ⑮ ZONE 1 LIGHTING CONTROL SYSTEM 2HR. OVERRIDE STATION. PROVIDE LOW VOLTAGE MOMENTARY PILOT LIGHT SWITCH, PER SQUARE D REQUIREMENTS AND ENGRAVED SWITCHPLATE. 3/4"C AND CONTROL CABLEING HOMERUN TO PANEL "LP1".
- ⑯ PP2-41; 3/4"C-2#10 & 1#10 GND.
- ⑰ PP6-39-41; 3/4"C-3#10 & 1#10 GND.
- ⑱ PP6-37; 3/4"C-2#10 & 1#10 GND.

KBZ

KRUGER BENSEN ZIEMER ARCHITECTS, INC.
30 W. ARROYAVILLE SANTA BARBARA, CA 93101
805/963-1726

STEVE DOWTY, A.I.A.
PRINCIPAL IN CHARGE

THIERRY H. CASSAN
PROJECT DESIGNER

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LUNA & ASSOCIATES INC.
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**VENTURA COLLEGE
LEARNING RESOURCES CENTER**

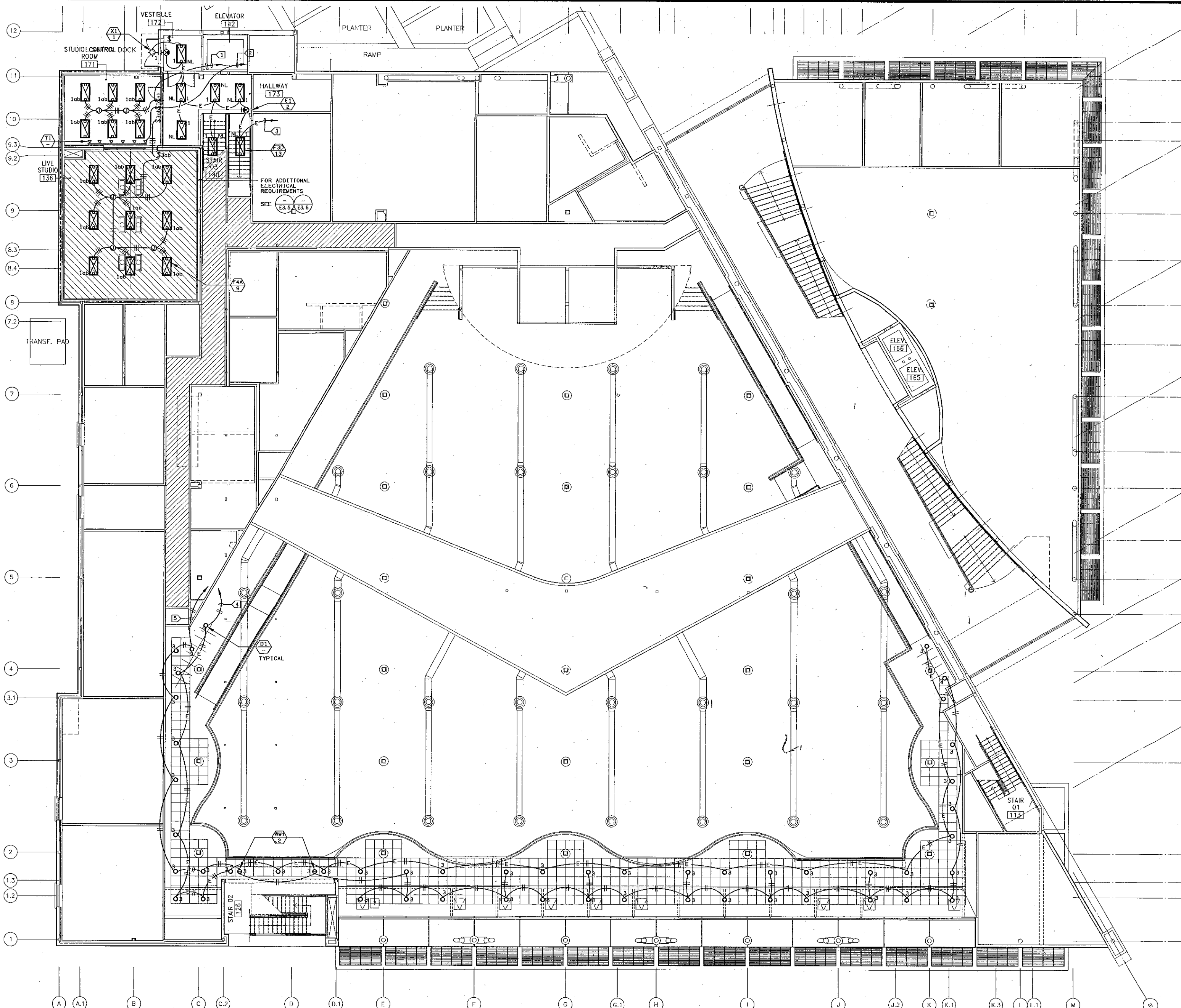
Ventura County Community College District
Ventura, CA 93003
4667 Telegraph Road

ENGINEER'S STAMP ARCHITECT'S STAMP

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
FILE NUMBER: 56C1
APPL 03-104498
DATE: _____ FILED BY: _____
DATE: _____

NO.	DESCRIPTION	DATE	BY

DRAWN: DENISE CUNNINGHAM
 CHECKED: CRANG HOOD
 DATE: 09/24/01
 JOB NO.: 99245
 SHEET TITLE:
FIRST FLOOR LIGHTING PLAN
 SHEET:
E3.1



MEZZANINE FLOOR LIGHTING PLAN 1
SCALE: 1/8" = 1'-0"

SHEET NOTES:

1. CONTRACTOR SHALL VERIFY LOCATION, CEILING TYPE, TRIM, AND REQUIREMENTS OF ALL LIGHT FIXTURES AND CONTROL PRIOR TO BID PROPOSAL, ROUGH-IN, AND FINISH INSTALLATION.
2. CONTRACTOR SHALL, IN ROUTING ALL CIRCUITS, INCREASE CONDUCTOR & CONDUIT SIZE TO ALLOW FOR VOLTAGE DROP SHOULD THE CONTRACTOR EXCEED ROUTING INDICATED ON DRAWING. ENGINEER OF RECORD MUST BE NOTIFIED PRIOR TO ANY DEVIATIONS FROM APPROVED PLAN CHECK (PERMIT SET) DRAWINGS.
3. CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL CONDUCTORS PER CONDUCTOR MANUFACTURERS RECOMMENDATIONS, PER THE NATIONAL ELECTRICAL CODE AND PER LOCAL AUTHORITIES HAVING JURISDICTION.
4. 3/4" CONDUIT MINIMUM UNLESS OTHERWISE NOTED.
5. ALL LIGHTING FIXTURES SHALL BE SECONDARILY SUPPORTED WITH SAFETY CABLES, PROVIDED BY CONTRACTOR.
6. VERIFY LOCATION OF ALL DEVICES ON ARCHITECTURAL PLANS.
7. MAINTAIN A MAXIMUM 2% VOLTAGE DROP ON ALL LIGHTING HANGERS.
8. ALL EXIT SIGNS ARE ±12" TO CENTER LINE OF FIXTURE ABOVE DOOR FRAME UNLESS OTHERWISE NOTED.
9. CONTRACTOR SHALL PROVIDE ALL BACKING, BRACKETS, SUPPORTS, AND MOUNTING HARDWARE NECESSARY TO PROPERLY INSTALL LIGHTING FIXTURES.
10. VERIFY THE EXACT ROUTING OF ALL EXPOSED CONDUIT WITH OWNER PRIOR TO INSTALLATION.
11. COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES, AND WIRING REQUIRED WHETHER SHOWN ON ELECTRICAL DRAWINGS OR NOT.
12. PROVIDE CODE SIZED EQUIPMENT GROUNDING CONDUCTOR IN ALL LIGHTING SYSTEM CONDUITS.
13. ALL LIGHTING FIXTURES, EXCEPT EMERGENCY, SHALL BE CONTROLLED BY POWER LINK PANELBOARD, LIGHTING CONTROL RELAY SYSTEM UNLESS OTHERWISE NOTED.
14. ALL LIGHTING FEEDERS SHALL BE STRANDED #10 AWG THIN MINIMUM DERATING OF CONDUCTORS SHALL BE PER NEC 300-5 FOR COMBINED HOMERUNS WHERE EACH NEUTRAL IS A CURRENT CARRYING CONDUCTOR.

KEY NOTES:

- ① LP1-3; 3/4" C-2#10 & 1#10 GND.
- ② PP1-4; 3/4" C-2#10 & 1#10 GND.
- ③ E-1; 3/4" C-2#10 & 1#10 GND.
- ④ E-3; 3/4" C-2#10 & 1#10 GND ENTIRE RUN #10 AWG.
- ⑤ LP1-3; 3/4" C-2#10 & 1#10 GND ENTIRE RUN #10 AWG.

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THIERRY H. CASSAN
PROJECT DESIGNER

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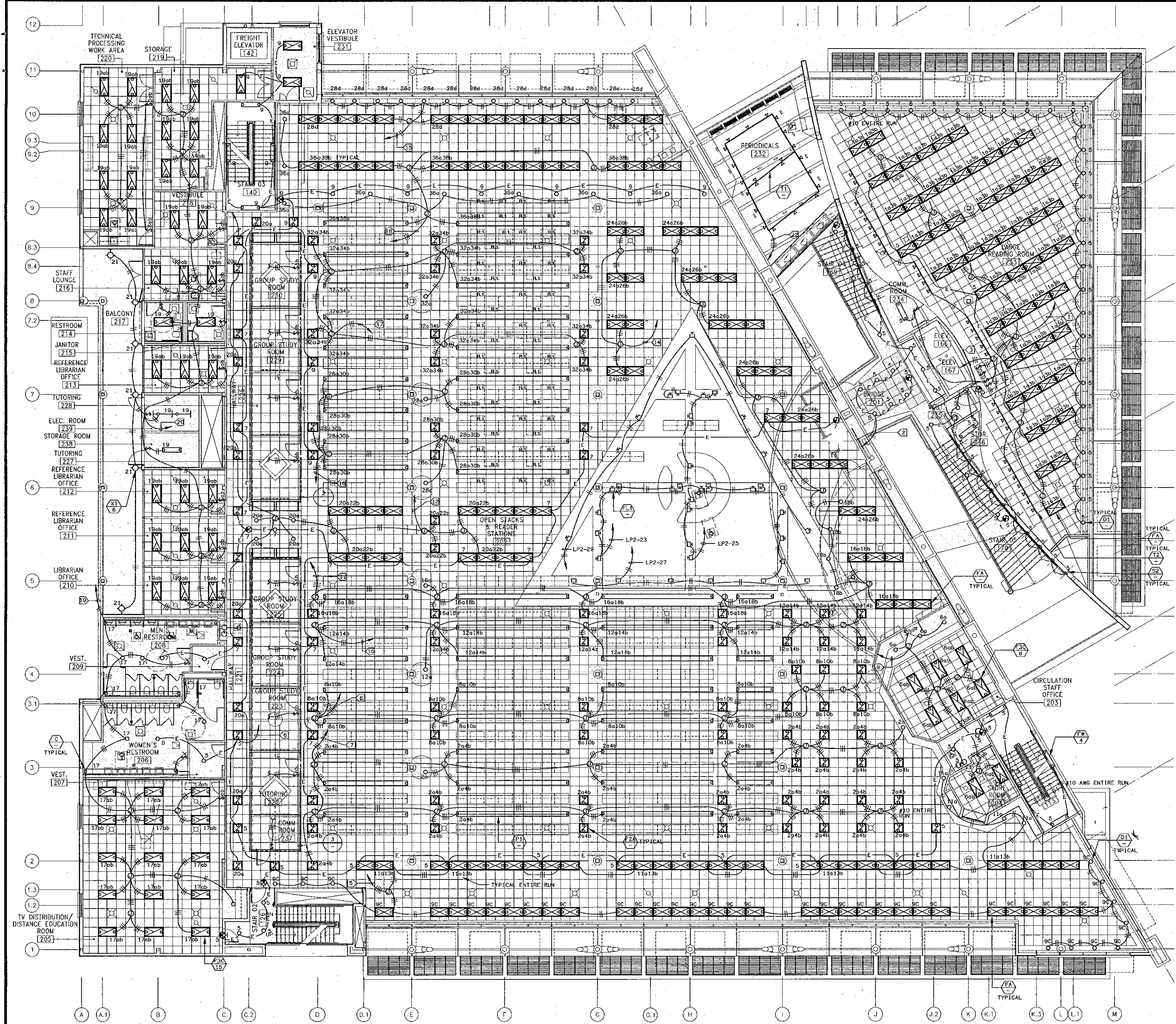
VENTURA COLLEGE LEARNING RESOURCES CENTER
Ventura County Community College District
Ventura, CA 93003
4667 Telegraph Road

ENGINEER'S STAMP
DIVISION OF THE STATE ARCHITECT
FILE NUMBER: 0661
APPL 03-104498
DATE: 09/24/01

ARCHITECT'S STAMP
REVISION: 11/01

NO.	DESCRIPTION	DATE	BY

DRAWN: DENISE CUNNINGHAM
CHECKED: CRAIG HOOD
DATE: 09/24/01
JOB NO.: 99245
SHEET NO.: 1
MEZZANINE FLOOR LIGHTING PLAN
SHEET: E3.1.1

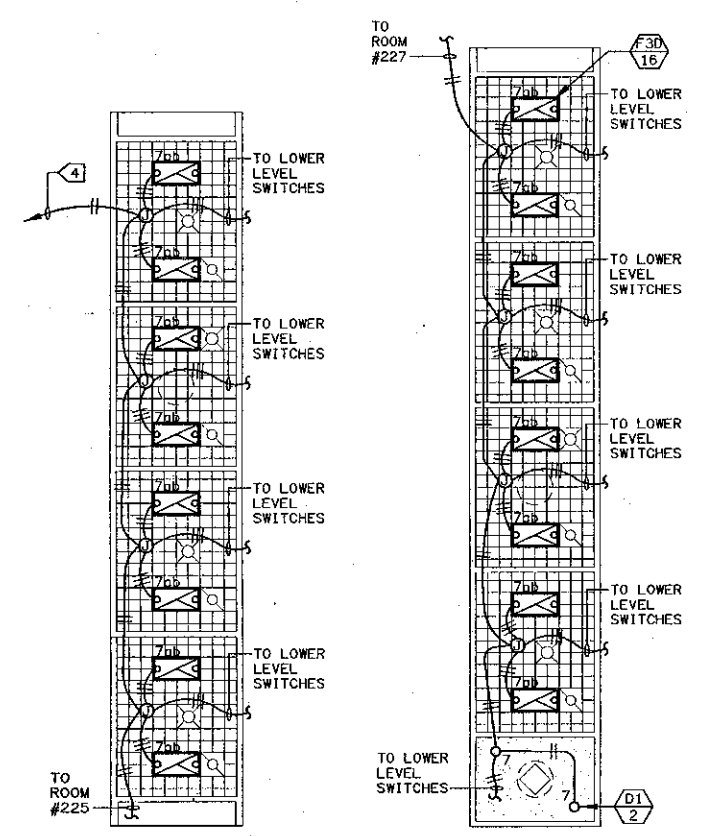


SHEET NOTES:

- CONTRACTOR SHALL VERIFY LOCATION, CEILING TYPE, TRIM, AND REQUIREMENTS OF ALL LIGHT FIXTURES AND CONTROL PRIOR TO BID PROPOSAL, ROUGH-IN, AND FINISH INSTALLATION.
- CONTRACTOR SHALL, IN ROUTING ALL CIRCUITS, INCREASE CONDUCTOR & CONDUIT SIZE TO ALLOW FOR VOLTAGE DROP SHOULD THE CONTRACTOR EXCEED ROUTING INDICATED ON DRAWING. ENGINEER OF RECORD MUST BE NOTIFIED PRIOR TO ANY DEVIATIONS FROM APPROVED PLAN CHECK (PERMIT SET) DRAWINGS.
- CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL CONDUCTORS PER CONDUCTOR MANUFACTURER'S RECOMMENDATIONS. PER THE NATIONAL ELECTRICAL CODE AND PER LOCAL AUTHORITIES HAVING JURISDICTION.
- 3/4" CONDUIT MINIMUM UNLESS OTHERWISE NOTED.
- ALL LIGHTING FIXTURES SHALL BE SECONDARILY SUPPORTED WITH SAFETY CABLES, PROVIDED BY CONTRACTOR.
- VERIFY LOCATION OF ALL DEVICES ON ARCHITECTURAL PLANS.
- MAINTAIN A MAXIMUM 2% VOLTAGE DROP ON ALL LIGHTING POWERLINES.
- ALL EXIT SIGNS ARE +12" TO CENTER LINE OF FIXTURE ABOVE DOOR FRAME UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL PROVIDE ALL BACKING, BRACKETS, SUPPORTS, AND MOUNTING HARDWARE NECESSARY TO PROPERLY INSTALL LIGHTING FIXTURES.
- VERIFY THE EXACT ROUTING OF ALL EXPOSED CONDUIT WITH OWNER PRIOR TO INSTALLATION.
- COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES, AND WIRING REQUIRED WHETHER SHOWN ON ELECTRICAL DRAWINGS OR NOT.
- PROVIDE CODE SIZED EQUIPMENT GROUNDING CONDUCTOR IN ALL LIGHTING SYSTEM CIRCUITS.
- ALL LIGHTING FIXTURES, EXCEPT EMERGENCY, SHALL BE CONTROLLED BY POWER LINE PANELBOARD, LIGHTING CONTROL RELAY SYSTEM UNLESS OTHERWISE NOTED.

KEY NOTES:

- LP2-1-3-5; 3/4" C-4#10 & 1#10 GND, ENTIRE RUN #10 AWG.
- E-5; 3/4" C-2#10 & 1#10 GND, ENTIRE RUN #10 AWG.
- PP5-22-24; 3/4" C-3#10 & 1#10 GND.
- LP2-7; 3/4" C-2#10 & 1#10 GND, ENTIRE RUN #10 AWG.
- LP2-9-11-13; 3/4" C-4#10 & 1#10 GND, ENTIRE RUN #10 AWG.
- E-5; 3/4" C-2#10 & 1#10 GND, ENTIRE RUN #10 AWG.
- LP2-2-4; 3/4" C-3#10 & 1#10 GND, ENTIRE RUN #10 AWG.
- LP2-8-10; 3/4" C-3#10 & 1#10 GND, ENTIRE RUN #10 AWG.
- LP2-6; 3/4" C-2#10 & 1#10 GND, ENTIRE RUN #10 AWG.
- LP2-12-14; 3/4" C-3#10 & 1#10 GND, ENTIRE RUN #10 AWG.
- LP2-16-18; 3/4" C-3#10 & 1#10 GND, ENTIRE RUN #10 AWG.
- LP2-20-22; 3/4" C-3#10 & 1#10 GND, ENTIRE RUN #10 AWG.
- E-7-9; 3/4" C-3#10 & 1#10 GND, ENTIRE RUN #10 AWG.
- LP2-24-26; 3/4" C-3#10 & 1#10 GND, ENTIRE RUN #10 AWG.
- LP2-28; 3/4" C-2#10 & 1#10 GND, ENTIRE RUN #10 AWG.
- LP2-28-30; 3/4" C-3#10 & 1#10 GND, ENTIRE RUN #10 AWG.
- LP2-32-34; 3/4" C-3#10 & 1#10 GND, ENTIRE RUN #10 AWG.
- LP2-36-38; 3/4" C-3#10 & 1#10 GND, ENTIRE RUN #10 AWG.
- LP2-17; 3/4" C-2#10 & 1#10 GND, ENTIRE RUN #10 AWG.
- LP2-19-21; 3/4" C-3#10 & 1#10 GND, ENTIRE RUN #10 AWG.
- LP5-38; 3/4" C-2#10 & 1#10 GND, ENTIRE RUN #10 AWG.
- LP5-40-42; 3/4" C-3#10 & 1#10 GND, ENTIRE RUN #10 AWG.



SECOND FLOOR LIGHTING PLAN
SCALE: 1/8" = 1'-0" 1

RCP SCALE: 1/8" = 1'-0" 2

RCP SCALE: 1/8" = 1'-0" 3

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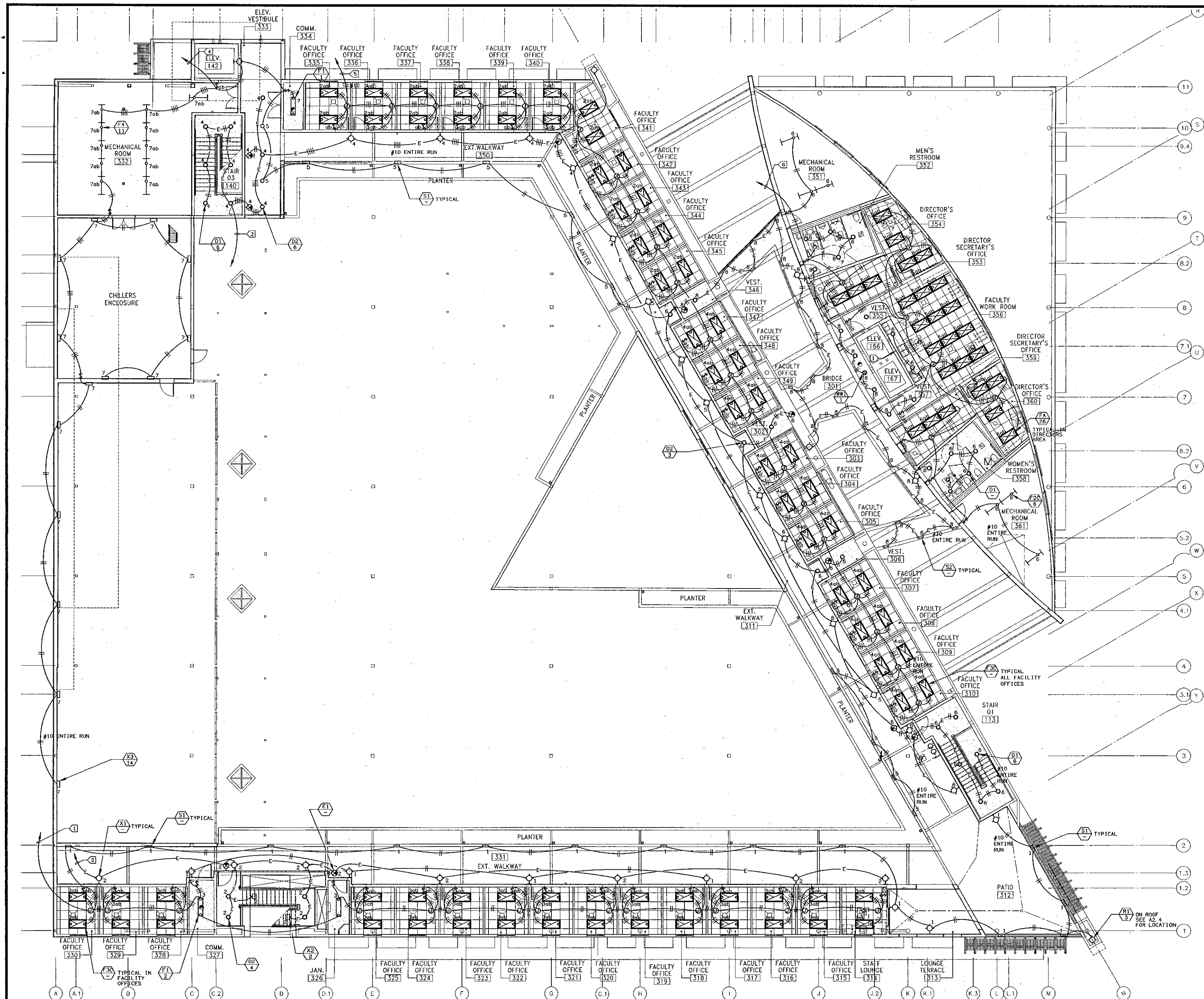
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DIVISION OF THE STATE ARCHITECT
FILE NUMBER: 5861
APPL 03-104498

NO.	DESCRIPTION	DATE	BY

DRAWN DENISE CUNNINGHAM
CHECKED CRAIG HOOD
DATE 09/24/01
JOB NO. 99245
SHEET TITLE
SECOND FLOOR LIGHTING PLAN
SHEET
E3.2



THIRD FLOOR LIGHTING PLAN
SCALE 1/8" = 1'-0" 1

SHEET NOTES:

1. CONTRACTOR SHALL VERIFY LOCATION, CEILING TYPE, TRIM, AND REQUIREMENTS OF ALL LIGHT FIXTURES AND CONTROL PRIOR TO BID PROPOSAL, ROUGH-IN, AND FINISH INSTALLATION.
2. CONTRACTOR SHALL, IN ROUTING ALL CIRCUITS, INCREASE CONDUCTOR & CONDUIT SIZE TO ALLOW FOR VOLTAGE DROP SHOULD THE CONTRACTOR EXCEED ROUTING INDICATED ON DRAWING. ENGINEER OF RECORD MUST BE NOTIFIED PRIOR TO ANY DEVIATIONS FROM APPROVED PLAN CHECK (PERMIT SET) DRAWINGS.
3. CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL CONDUCTORS PER CONDUCTOR MANUFACTURER'S RECOMMENDATIONS, PER THE NATIONAL ELECTRICAL CODE AND PER LOCAL AUTHORITIES HAVING JURISDICTION.
4. 3/4" CONDUIT MINIMUM UNLESS OTHERWISE NOTED.
5. ALL LIGHTING FIXTURES SHALL BE SECONDARILY SUPPORTED WITH SAFETY CABLES, PROVIDED BY CONTRACTOR.
6. VERIFY LOCATION OF ALL DEVICES ON ARCHITECTURAL PLANS.
7. MAINTAIN A MAXIMUM 2% VOLTAGE DROP ON ALL LIGHTING HOMERUNS.
8. ALL EXIT SIGNS ARE +12" TO CENTER LINE OF FIXTURE ABOVE DOOR FRAME UNLESS OTHERWISE NOTED.
9. CONTRACTOR SHALL PROVIDE ALL BACKING, BRACKETS, SUPPORTS, AND MOUNTING HARDWARE NECESSARY TO PROPERLY INSTALL LIGHTING FIXTURES.
10. VERIFY THE EXACT ROUTING OF ALL EXPOSED CONDUIT WITH OWNER PRIOR TO INSTALLATION.
11. COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES, AND WIRING REQUIRED WHETHER SHOWN ON ELECTRICAL DRAWINGS OR NOT.
12. PROVIDE CODE SIZED EQUIPMENT GROUNDING CONDUCTOR IN ALL LIGHTING SYSTEM CONDUITS.
13. VERIFY AND PROVIDE JUNCTION BOXES, CONDUIT, DISCONNECT SWITCH, AND WIRING ASSOCIATED WITH SIGNAGE/GRAPHICS ON GRAPHICS/SIGNAGE DRAWINGS.
14. ALL LIGHTING FIXTURES, EXCEPT EMERGENCY, SHALL BE CONTROLLED, POWER LINK PANELBOARD, LIGHTING CONTROL RELAY SYSTEM UNLESS OTHERWISE NOTED.

KEY NOTES:

- ① LPS-1-3; 3/4"C-3#10 & 1#10 GND ENTIRE RUN #10 AWG.
- ② E-2; 3/4"C-2#10 & 1#10 GND ENTIRE RUN #10 AWG.
- ③ E4-6-8; 3/4"C-4#10 & 1#10 GND ENTIRE RUN #10 AWG.
- ④ LPS-3-7; 3/4"C-3#10 & 1#10 GND ENTIRE RUN #10 AWG.
- ⑤ LPS-2-4; 3/4"C-3#10 & 1#10 GND ENTIRE RUN #10 AWG.
- ⑥ LPS-5; 3/4"C-2#10 & 1#10 GND ENTIRE RUN #10 AWG.

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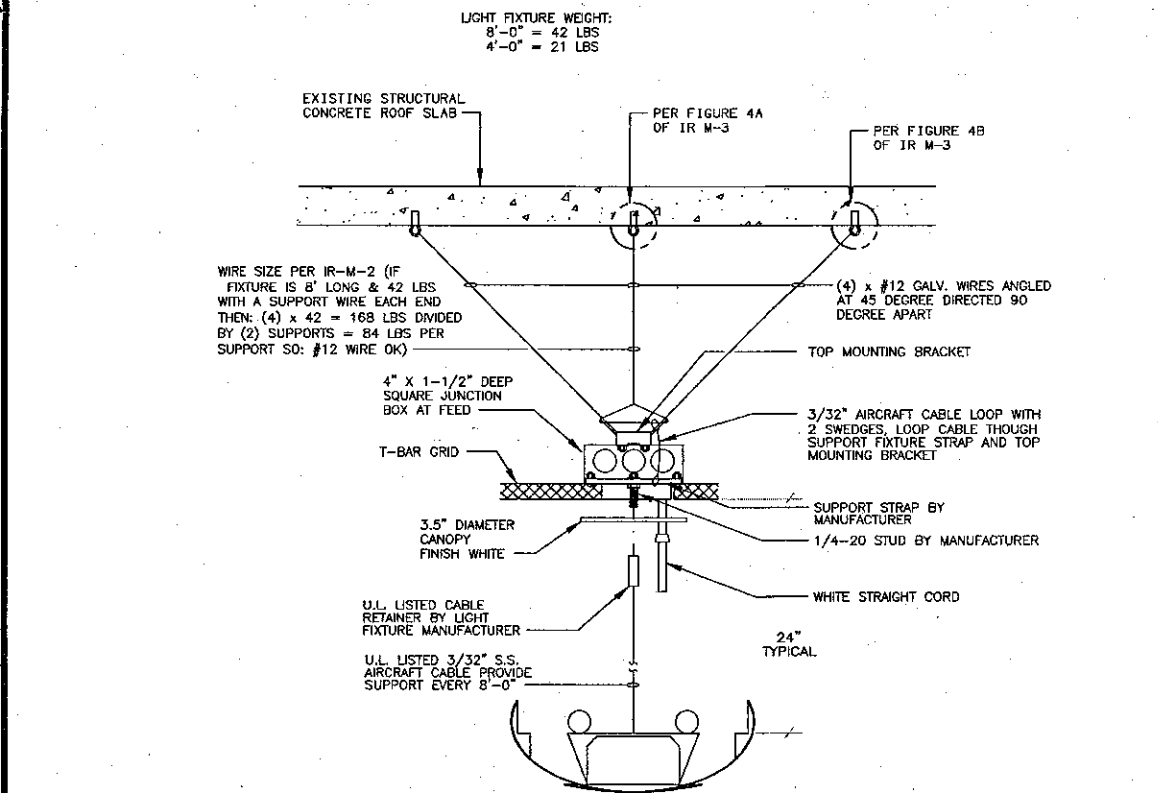
NO.	DESCRIPTION	DATE	BY

DRAWN: DENISE CUNNINGHAM
CHECKED: CRAIG HOOD
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JOB NO.: 99245

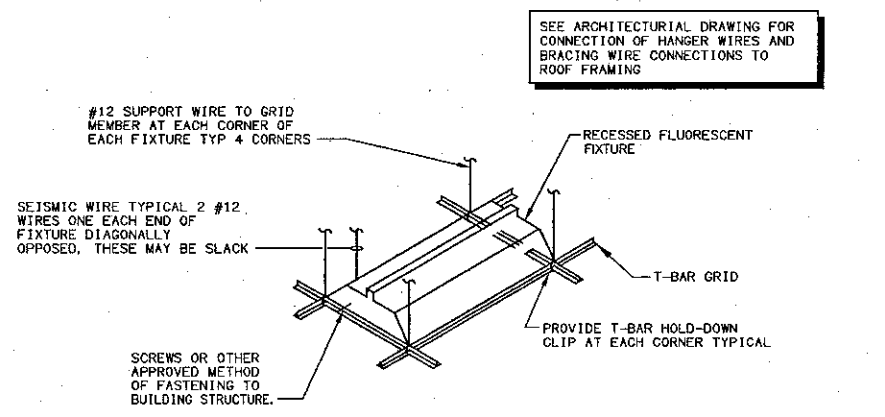
THIRD FLOOR LIGHTING PLAN

SHEET TITLE

E3.3



FIXTURE TYPE 'P1' AND 'P2' T-BAR CEILING MOUNTING DETAIL SCALE: NONE ④



FIXTURE MOUNTING DETAIL SCALE: NONE ①

NOTE: ALL ELECTRICAL EQUIPMENT, CONDUIT, FIXTURES, ETC. SHALL BE SECURELY FASTENED TO THE BUILDING STRUCTURE AS PER IBC IR M-3.

WHERE HEAVY DUTY SYSTEMS ARE USED, SUPPLEMENTAL HANGERS ARE NOT REQUIRED IF A 48 INCH MODULAR HANGER PATTERN IS FOLLOWED. WHEN CROSS RUNNERS ARE USED WITHOUT SUPPLEMENTAL HANGERS TO SUPPORT LIGHTING FIXTURES, THESE CROSS RUNNERS MUST PROVIDE THE SAME CARRYING CAPACITY AS THE MAIN RUNNER.

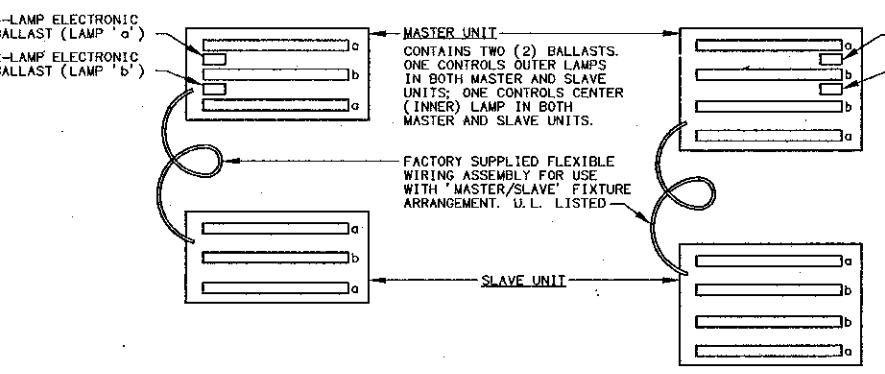
ALL LIGHTING FIXTURES SHALL BE SECURELY ATTACHED TO THE SUSPENDED CEILING SYSTEM. THE ATTACHMENT DEVICE SHALL HAVE A CAPACITY OF 100 PERCENT OF THE LIGHT FIXTURE WEIGHT ACTING IN ANY DIRECTION.

PENDANT MOUNTED LIGHTING FIXTURES SHALL BE SUPPORTED DIRECTLY FROM THE STRUCTURE ABOVE USING 9 GAGE WIRE OR APPROVED ALTERNATE.

FIXTURE MOUNTING DETAIL SCALE: NONE ①

DETAIL NOTES:

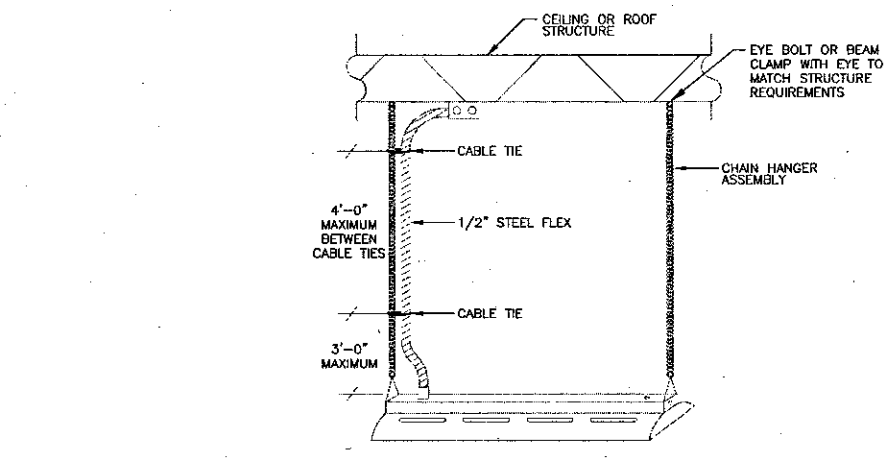
- ALL AREAS SHALL HAVE MULTILEVEL SWITCHING WITH SWITCH 'd' CONTROLLING ALL OUTER TUBES AND SWITCH 'b' CONTROLLING ALL INNER TUBES IN 3-LAMP AND 4-LAMP FIXTURES.
- MAXIMUM DISTANCE BETWEEN MASTER AND SLAVE BALLASTS SHALL NOT EXCEED 10 FEET.



MASTER/SLAVE LIGHT FIXTURE CONNECTION SCALE: NONE ②

DETAIL NOTES:

- ALL LIGHTING FIXTURES SHALL BE SECURELY ATTACHED TO THE STRUCTURE. THE ATTACHMENT SHALL HAVE A CAPACITY OF THE LIGHT FIXTURE WEIGHT ACTING IN ANY DIRECTION.



FIXTURE TYPE 'F4C' MOUNTING DETAIL SCALE: NONE ③

LIGHTING FIXTURE SCHEDULE									
TAG	SYMBOL	WATT	DESCRIPTION	LAMP - TYPE AND QUANTITY	MOUNTING	MANUFACTURER AND MODEL NUMBER	* ALTERNATE BID MANUFACTURERS	REMARKS	
B1	○	110	WALKWAY BOLLARD	100 WATT (1 LAMP)	ON GRADE	BECA #9483MA277V	NO KNOWN EQUAL		
C	□	84	COVE FIXTURE FLUORESCENT	F32T8 3500°K (2 LAMPS)	RECESSED	LITE CONTROL # 202-18CWELEB277	NO KNOWN EQUAL	FIELD VERIFY LENGTH PRIOR TO BID	
D1	○	32	6" APERTURE DOWNLIGHT FLUORESCENT	32WTR 3500°K (1 LAMP)	T-BAR	LITHONIA AFV32TRT6WTRLD277GEB	INDY LIGHTING 618R-322-SSCG 277 HPF		
D2	○	42	6" APERTURE DOWNLIGHT FLUORESCENT	42WTR 3500°K (1 LAMP)	SOFFIT	LITHONIA LGFV42TRTR9WCHL277GEB	INDY LIGHTING 618R-322-PGL CCG 277 HPF		
D3	○	64	DOWNLIGHT 6" APERTURE FLUORESCENT	32WTR 3500°K (2 LAMPS)	RECESSED	KURT VERSEN P941232W277GEB	INDY LIGHTING 710-322E-SSCG 277 HPF		
E1	○	15	LED EXIT SIGN - LED VANDAL RESISTANT	RED LED	SURFACE	LITHONIA LVSR120/277BLN	NO KNOWN EQUAL		
FA	□	64	DIRECT / INDIRECT LAY - IN 2' X 4' XAVANTE	F32T8 3500°K (2 LAMPS)	T-BAR	LITHONIA 2AVG235DL277GEB	FOCAL POINT FLV 248 218 E 277 G RLP NO W4		
F1	□	64	ARCHITECTURAL W/SPARABOLIC ACRYLIC LENS	F32T8 3500°K (1 LAMP)	SURFACE	LITHONIA AW232NR120GEB	LA LIGHTING WCP200-2-AR-DRPA 277 2E81		
F2A	□	96	2' X2' LAY-IN FLUORESCENT 9 CELL PARABOLIC LENS	U31T8 3500°K (3 LAMPS)	T-BAR	LITHONIA 2PM43U319L277GEB	LA LIGHTING GFA520-2-2RV-S9-M1 277 2E81		
F2B	□	64	INDUSTRIAL STRIP FLUORESCENT WITH WIRE GUARD	F32T8 3500°K (2 LAMPS)	SURFACE	LITHONIA UN232277GEBWZ	LA LIGHTING SIR300-2-AR 277 2E81		
F3A	□	96	2' X4' LAY-IN FLUORESCENT ACRYLIC LENS	F32T8 3500°K (3 LAMPS)	RECESSED GYPBOARD	LITHONIA 2SPF33212125277GEB	LA LIGHTING FHL320-3-AR-FSW-PA2-M2 277 1/2 E81		
F3B	□	96	2' X4' LAY-IN FLUORESCENT ACRYLIC LENS	F32T8 3500°K (3 LAMPS)	T-BAR	LITHONIA 2SPG332A12125277GEB	LA LIGHTING GHL320-3-AR-FSW-PA2-M2 120 1/2 E81		
F3C	□	96	2' X4' LAY-IN FLUORESCENT PARABOLIC LENS	F32T8 3500°K (3 LAMPS)	T-BAR	LITHONIA 2FM4633218277LSD0E	LA LIGHTING GFA520-3-AR-S18-M1 277 1/2 E81		
F3D	□	96	SURFACE MOUNTED 2' X4' 3"-18 CELL PARABOLIC LENS	F32T8 3500°K (3 LAMPS)	SURFACE	LITHONIA 2PM333218LS277GEB	LA LIGHTING GFA520-3-AR-S18-M1 277 1/2 E81		
F4A	□	128	2' X4' LAY-IN FLUORESCENT ACRYLIC LENS	F32T8 3500°K (4 LAMPS)	RECESSED GYPBOARD	LITHONIA 2SPF43212125277GEB	LA LIGHTING FHL320-4-AR-FSW-PA2-M2 277 1/2 E81		
F4B	□	128	INDUSTRIAL 10X UPLIGHT WITH REFLECTOR AND WIRE GUARD	F32T8 3500°K (4 LAMPS)	CHAIN HUNG	LITHONIA AF432277GEBWZ	INDY LIGHTING IN400-4-AR-S-1/2 E81-WG-277		
FL	□	190	ARCHITECTURAL FLOOD LIGHT	175W/1H (1 LAMP)	SURFACE	SP1 #2403277CS	WINONA P1-S-M175-LS1-SGW-X-STD 120/277		
F5	□	64	FLUORESCENT WALL BRACKET	F32T8 3500°K (2 LAMPS)	WALL	LITHONIA CA232AR277GEB	LA LIGHTING COR100-2-AR-DRPA 277-2E81		
F6	□	85	WALL MOUNTED ARCHITECTURAL LUMINAIRE-BLACK	70W HPS (1 LAMP)	WALL	BECA 2495S	NO KNOWN EQUAL		
P1	□	24 PER FOOT	LINEAR PENDANT INDIRECT / DIRECT EXTENDED ALUMINUM FLUORESCENT	F32T8 3500°K (3 LAMPS)	PENDANT 10"-0" AFF	PEERLESS ENM332W1N277GEBDCTF1	LITE CONTROL P-10-922418-PARSS XXX-TW-ELB-2CWJ 277	VERIFY CUSTOM COLOR AND LENGTH AS NECESSARY	
P2	□	24 PER FOOT	LINEAR PENDANT INDIRECT EXTENDED ALUMINUM FLUORESCENT	F32T8 3500°K (3 LAMPS)	PENDANT	PEERLESS ENM332277GEBDCTF2CXXX	LITE CONTROL P-10-923418-PARSS XXX-TW-ELB-2CWJ 277	VERIFY CUSTOM COLOR AND LENGTH	
S1	□	30	RECESSED STEP LIGHT WITH LOUVER-BLACK	27W (1 LAMP)	RECESSED	BECA 2082P	NO KNOWN EQUAL		
S2	□	18	STAINLESS STEEL STEP LIGHT WITH GUARD	18W/1C 3500°K (1 LAMP)	RECESSED	BECA #2310P-277V	NO KNOWN EQUAL		
T1	□	90 PER FOOT	ONE CIRCUIT 120V TRACK ON FIXTURE EVERY 2 FEET	75W PAR16 NFL/30	SURFACE	LSI-BLACK SERIES G12 TRACK HEAD LN20-B	NO KNOWN EQUAL	FIELD VERIFY LENGTH	
T2	□	90 FT	INTEGRAL-RECESSED TRACK LIGHTING SYSTEM	Q100T3/CL 3500°K (1 LAMP)	T-BAR	LSI TRACK-42330 FIXTURE - 6400	NO KNOWN EQUAL	FIELD VERIFY LENGTH	
W	○	35	WELL LIGHT	100 WATT (1 LAMP)	FLUSH MOUNT TO GRADE	HYDEL #93550MH100277FL	NO KNOWN EQUAL		
WA	○	42	WALL WASH	3500°K (1 LAMP)	T-BAR	LITHONIA AFV42TRT6WTR277GEB	INDY LIGHTING 611R-422-SSCG 277 HPF		
X1	○	26	SURFACE MOUNTED WALL LUMINAIRES WITH LOCATION	26WPL 3500°K (1 LAMP)	WALL MOUNTED ABOVE DOOR	BECA 2438P	NO KNOWN EQUAL	VERIFY MOUNTING ELEVATION ON ARCHITECTURAL DWGS BOTTOM OF FIXTURE MINIMUM 80" AFF	
X3	□	110	SMALL AREA HID WALL PACK	100W/1H (1 LAMP)	SURFACE	LITHONIA TW110M277	NO KNOWN EQUAL		
B2	□	110	SMALL BOLLARD ON PILLAR	100W/1H (1 LAMP)	ON WALL	BECA #7953MH277V	NO KNOWN EQUAL		
R1	○	26	BLUE GLASS VAPOR PROOF	26WPL 3500°K (1 LAMP)	ON ROOF	CANLIT #BFCF26H209HB	NO KNOWN EQUAL		
E2	○	100	STUDIO IN USE SIGN	20WPL (1 LAMP)	ABOVE DOOR	LITHONIA LEP1R277M		"STUDIO IN USE"	
S3	○	190	WALL SONCE	175W/1H (1 LAMP)	WALL +12"-0"	ARCHITECTURAL AREA LIGHTING #E32-3175W/1H/1TORSF45			

FIXTURE SCHEDULE NOTES:

- CONTRACTOR SHALL BE RESPONSIBLE FOR ORDERING PROPER TYPES OF TRIMS FOR ALL RECESSED FLUORESCENT FIXTURES TO FIT THE CEILING BEING INSTALLED.
- ALL FLUORESCENT LAMPS SHALL BE T8 OCTRON.
- ALL BALLASTS SHALL BE ELECTRONIC SOLID STATE.
- FIXTURES TYPE IN CONTACT WITH INSULATION SHALL HAVE U.L. LISTED THERMAL BARRIER.
- CONTRACTOR SHALL VERIFY THE TYPE OF CEILING BEFORE ORDERING NEW FIXTURES. CONTRACTOR IS FULLY RESPONSIBLE TO PROVIDE ALL MOUNTING BRACKETS TO FIT CEILING CONDITIONS AT NO EXTRA CHARGE TO THE OWNER.
- REFER TO ARCHITECTURAL ELEVATIONS AND REFLECTED CEILING PLAN FOR EXACT LOCATION OF LIGHTING FIXTURES.
- SEE ARCHITECTURAL PLANS FOR EXACT DIMENSIONS, CEILING CONFIGURATION AND LIGHTING PLACEMENT.
- FIXTURE TYPE QUANTITY (WHERE NO NUMERIC QUANTITY IS LISTED, FIXTURE TYPE IS TYPICAL FOR ENTIRE AREA)

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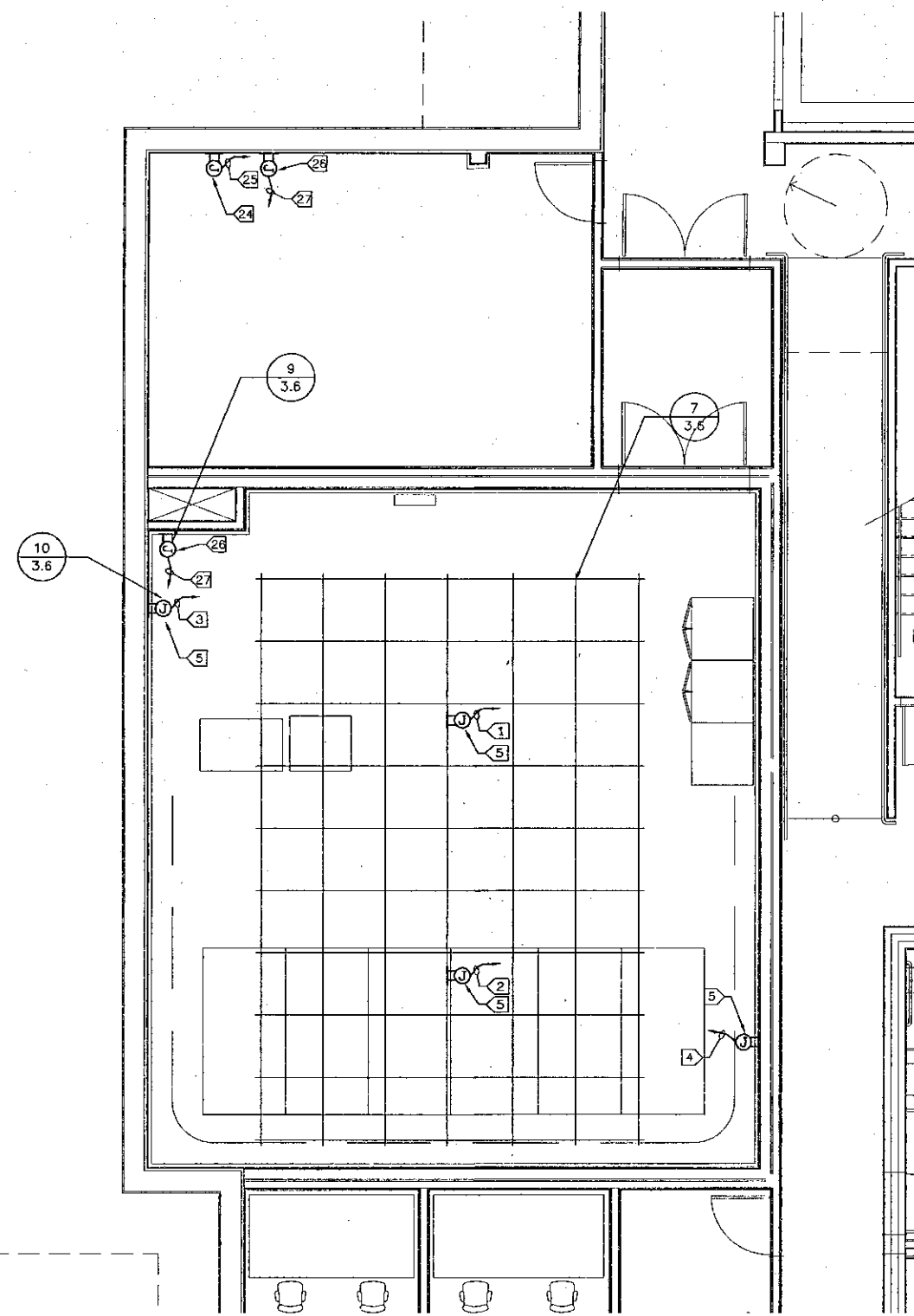
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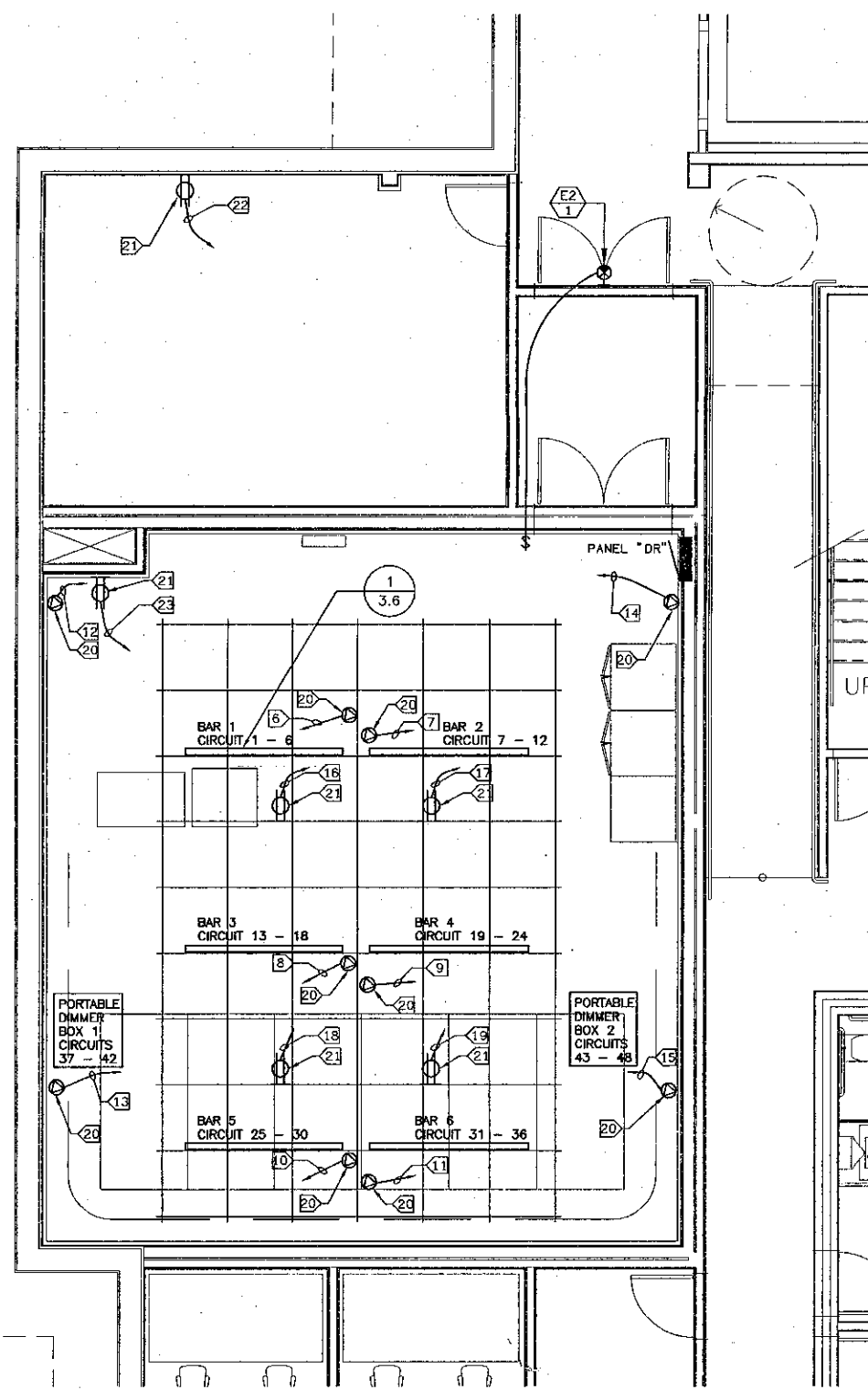
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FILE NUMBER: 56C1
APPL 03-104498
DATE: 08/24/01

NO.	DESCRIPTION	DATE	BY

DRAWN: DENISE CUNNINGHAM
CHECKED: CRAIG HOOD
DATE: 08/24/01
JOB NO.: 99245
SHEET TITLE: LIGHTING DETAILS
SHEET: E3.4

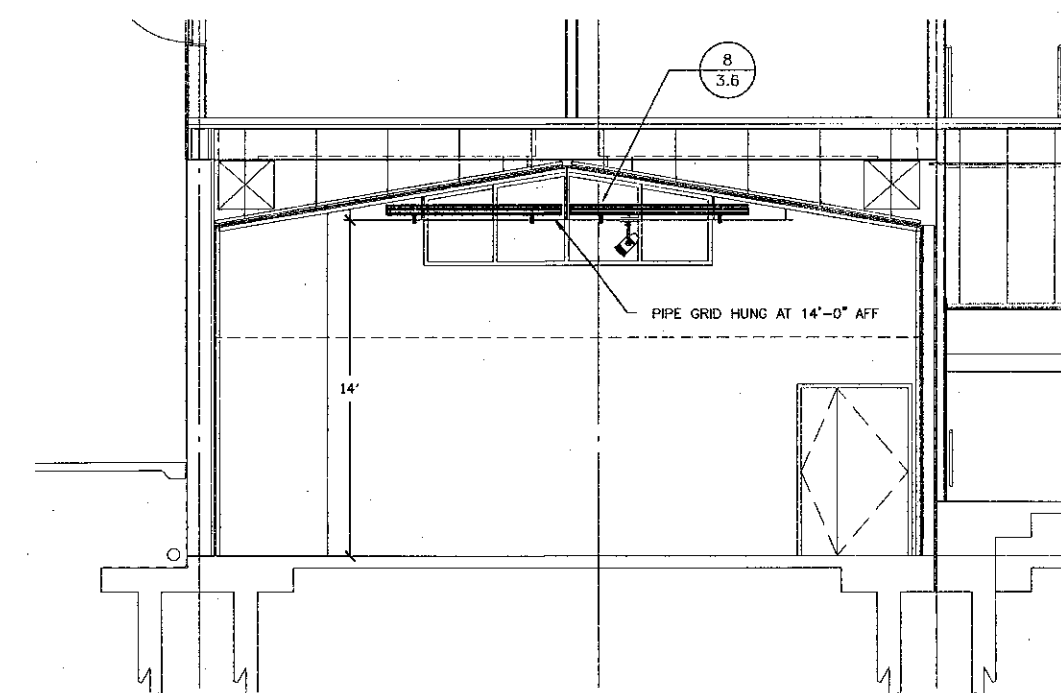


LIVE STUDIO CONTROL PLAN ④
SCALE 1/4"=1'-0"

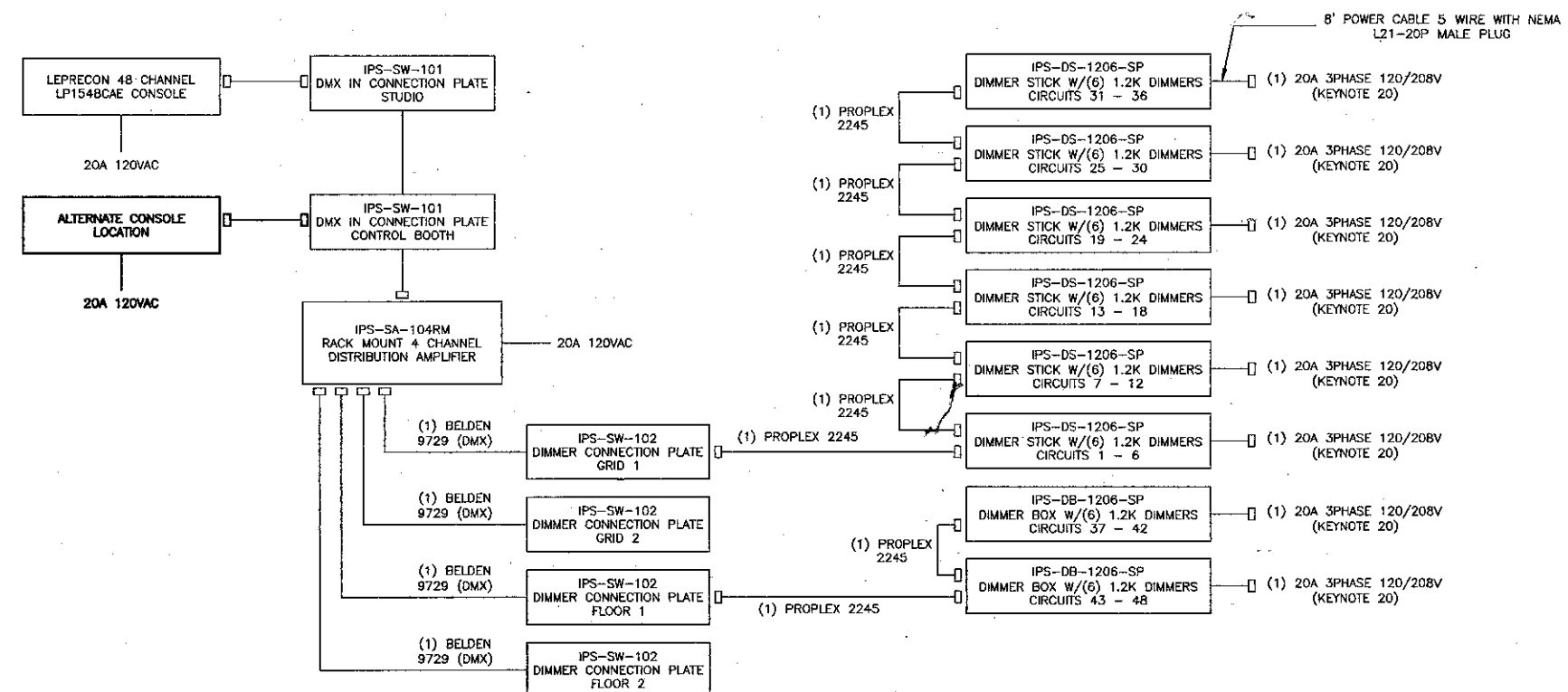


LIVE STUDIO POWER PLAN ②
SCALE 1/4"=1'-0"

NOTE: PROVIDE ALTERNATE BID PROPOSAL FOR STUDIO LIGHTING SYSTEM AS SHOWN ON DRAWING E35 AND E36



LIVE STUDIO SECTION ③
SCALE 1/4"=1'-0"



CONTROL RISER DIAGRAM ①
NO SCALE

SHEET NOTES:

- NO POWER OR CONTROL CONDUIT SHALL BE ATTACHED TO THE LIGHTING GRID IN ANY MANNER.
- ALL LIGHTING FIXTURES SHALL BE SECONDARILY SUPPORTED WITH SAFETY CABLES, PROVIDED BY CONTRACTOR.
- CONTRACTOR SHALL PROVIDE ALL BACKING, BRACKETS, SUPPORTS, AND MOUNTING HARDWARE NECESSARY TO PROPERLY INSTALL LIGHTING FIXTURES.
- VERIFY THE EXACT ROUTING OF ALL EXPOSED CONDUIT WITH OWNER PRIOR TO INSTALLATION.
- COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES, AND WIRING REQUIRED WHETHER SHOWN ON ELECTRICAL DRAWINGS OR NOT.
- PROVIDE CODE SIZED EQUIPMENT GROUNDING CONDUCTOR IN ALL LIGHTING SYSTEM CONDUITS.

KEY NOTES:

- 3/4" C. (1) BELDEN 9729 CONTROL LINE TO IPS DISTRIBUTION AMPLIFIER IN LIGHTING RACK.
- 3/4" C. (1) BELDEN 9729 CONTROL LINE TO IPS DISTRIBUTION AMPLIFIER IN LIGHTING RACK.
- 3/4" C. (1) BELDEN 9729 CONTROL LINE TO IPS DISTRIBUTION AMPLIFIER IN LIGHTING RACK.
- 3/4" C. (1) BELDEN 9729 CONTROL LINE TO IPS DISTRIBUTION AMPLIFIER IN LIGHTING RACK.
- IPS-SW-102 DIMMER CONNECTION PLATE.
- DR-1-3-5; 3/4" C-4#10 & 1#10 GND; (1) 20A 3-PHASE, 4 WIRE 120/208V.
- DR-7-9-11; 3/4" C-4#10 & 1#10 GND; (1) 20A 3-PHASE, 4 WIRE 120/208V.
- DR-13-15-17; 3/4" C-4#10 & 1#10 GND; (1) 20A 3-PHASE, 4 WIRE 120/208V.
- DR-19-21-23; 3/4" C-4#10 & 1#10 GND; (1) 20A 3-PHASE, 4 WIRE 120/208V.
- DR-25-27-29; 3/4" C-4#10 & 1#10 GND; (1) 20A 3-PHASE, 4 WIRE 120/208V.
- DR-2-4-6; 3/4" C-4#10 & 1#10 GND; (1) 20A 3-PHASE, 4 WIRE 120/208V.
- DR-8-10-12; 3/4" C-4#10 & 1#10 GND; (1) 20A 3-PHASE, 4 WIRE 120/208V.
- DR-14-16-18; 3/4" C-4#10 & 1#10 GND; (1) 20A 3-PHASE, 4 WIRE 120/208V.
- DR-20-22-24; 3/4" C-4#10 & 1#10 GND; (1) 20A 3-PHASE, 4 WIRE 120/208V.
- DR-26-28-30; 3/4" C-4#10 & 1#10 GND; (1) 20A 3-PHASE, 4 WIRE 120/208V.
- DR-31; (1) 20A 120VAC.
- DR-33; (1) 20A 120VAC.
- DR-35; (1) 20A 120VAC.
- DR-37; (1) 20A 120VAC.
- NEWA L21-20R OUTLET.
- EDISON DUPLEX OUTLET.
- DR-39; 20A 120VAC COURTESY OUTLET FOR LIGHTING CONTROL RACK.
- DR-41; 20A 120VAC COURTESY OUTLET FOR LIGHTING CONTROL RACK.
- (4) PIECES OF BELDEN 9729 TERMINATED WITH 3-PIN DMX MALE CONNECTOR TO CONNECT WITH DMX AMPLIFIER.
- (4) BELDEN 9729 FROM CONNECTION PLATES IN STUDIO.
- IPS-SW-101 PLATE FOR CONNECTION TO LIGHTING CONSOLE.
- 3/4" C. (1) BELDEN 9729 CONTROL LINE TO IPS DISTRIBUTION AMPLIFIER IN CONTROL RACK.

KBZ
KRUGER BENSEN ZIEMER ARCHITECTS, INC.
 30 W. ANSELMO AIA
 SANTA BARBARA, CA 93101
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STEVE DOWTY, A.I.A.
 PRINCIPAL IN CHARGE

THIERRY H. CASSAN
 PROJECT DESIGNER

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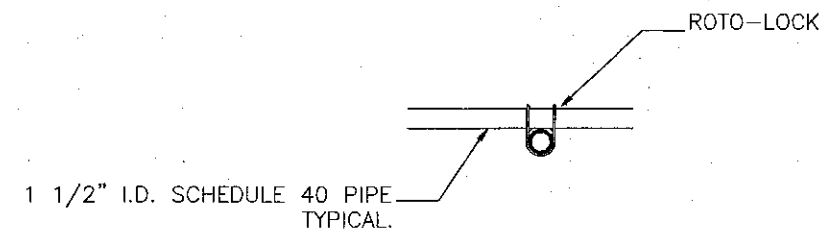
VENTURA COLLEGE LEARNING RESOURCES CENTER
 Ventura County Community College District
 Ventura, CA 93003
 4667 Telegraph Road

ENGINEER'S STAMP
 ARCHITECT'S STAMP

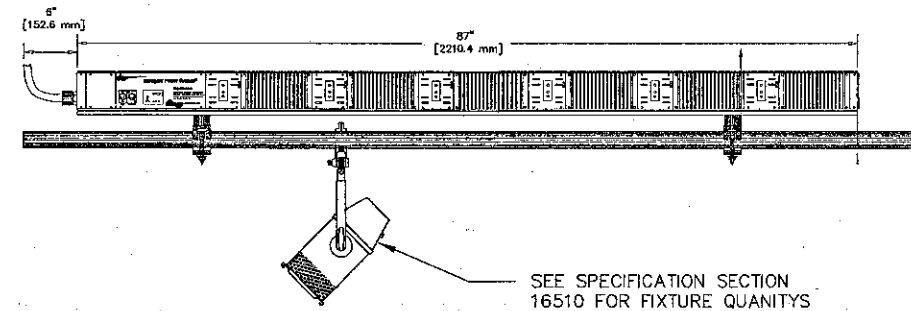
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 DIVISION OF THE STATE ARCHITECT
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 DATE: 08/24/01

NO.	DESCRIPTION	DATE	BY

DRAWN: DENSE CUNNINGHAM
 CHECKED: CRAIG HOOD
 DATE: 08/24/01
 JOB NO.: 99245
 SHEET TITLE:
LIVE STUDIO PLAN AND SECTION
 SHEET:
E3.5



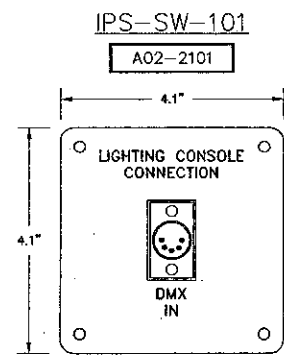
PIPE GRID INTERSECTION DETAIL (7)
SCALE: NONE



DIMMER BAR WITH FIXTURE BELOW (8)
SCALE: NONE

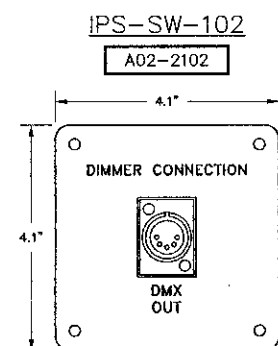
DIM NO.	DIMMER TYPE	DIMMER SIZE (KW)	OUTPUT BREAKER	NO. FIXT	WATTS			AREA SERVED
					#A	#B	#C	
1	.	1.2	.	.	600			DIMMER BAR 1 - GRID
2	.	1.2	.	.	600			DIMMER BAR 1 - GRID
3	.	1.2	.	.	600			DIMMER BAR 1 - GRID
4	.	1.2	.	.	600			DIMMER BAR 1 - GRID
5	.	1.2	.	.	600			DIMMER BAR 1 - GRID
6	.	1.2	.	.	600			DIMMER BAR 1 - GRID
7	.	1.2	.	.	600			DIMMER BAR 2 - GRID
8	.	1.2	.	.	600			DIMMER BAR 2 - GRID
9	.	1.2	.	.	600			DIMMER BAR 2 - GRID
10	.	1.2	.	.	600			DIMMER BAR 2 - GRID
11	.	1.2	.	.	600			DIMMER BAR 2 - GRID
12	.	1.2	.	.	600			DIMMER BAR 2 - GRID
13	.	1.2	.	.	600			DIMMER BAR 3 - GRID
14	.	1.2	.	.	600			DIMMER BAR 3 - GRID
15	.	1.2	.	.	600			DIMMER BAR 3 - GRID
16	.	1.2	.	.	600			DIMMER BAR 3 - GRID
17	.	1.2	.	.	600			DIMMER BAR 3 - GRID
18	.	1.2	.	.	600			DIMMER BAR 3 - GRID
19	.	1.2	.	.	600			DIMMER BAR 4 - GRID
20	.	1.2	.	.	600			DIMMER BAR 4 - GRID
21	.	1.2	.	.	600			DIMMER BAR 4 - GRID
22	.	1.2	.	.	600			DIMMER BAR 4 - GRID
23	.	1.2	.	.	600			DIMMER BAR 4 - GRID
24	.	1.2	.	.	600			DIMMER BAR 4 - GRID
25	.	1.2	.	.	600			DIMMER BAR 5 - GRID
26	.	1.2	.	.	600			DIMMER BAR 5 - GRID
27	.	1.2	.	.	600			DIMMER BAR 5 - GRID
28	.	1.2	.	.	600			DIMMER BAR 5 - GRID
29	.	1.2	.	.	600			DIMMER BAR 5 - GRID
30	.	1.2	.	.	600			DIMMER BAR 5 - GRID
31	.	1.2	.	.	600			DIMMER BAR 6 - GRID
32	.	1.2	.	.	600			DIMMER BAR 6 - GRID
33	.	1.2	.	.	600			DIMMER BAR 6 - GRID
34	.	1.2	.	.	600			DIMMER BAR 6 - GRID
35	.	1.2	.	.	600			DIMMER BAR 6 - GRID
36	.	1.2	.	.	600			DIMMER BAR 6 - GRID
37	.	1.2	.	.	600			DIMMER BOX 1 - FLOOR
38	.	1.2	.	.	600			DIMMER BOX 1 - FLOOR
39	.	1.2	.	.	600			DIMMER BOX 1 - FLOOR
40	.	1.2	.	.	600			DIMMER BOX 1 - FLOOR
41	.	1.2	.	.	600			DIMMER BOX 1 - FLOOR
42	.	1.2	.	.	600			DIMMER BOX 1 - FLOOR
43	.	1.2	.	.	600			DIMMER BOX 2 - FLOOR
44	.	1.2	.	.	600			DIMMER BOX 2 - FLOOR
45	.	1.2	.	.	600			DIMMER BOX 2 - FLOOR
46	.	1.2	.	.	600			DIMMER BOX 2 - FLOOR
47	.	1.2	.	.	600			DIMMER BOX 2 - FLOOR
48	.	1.2	.	.	600			DIMMER BOX 2 - FLOOR

DIMMER BAR SCHEDULE (11)
SCALE: NONE



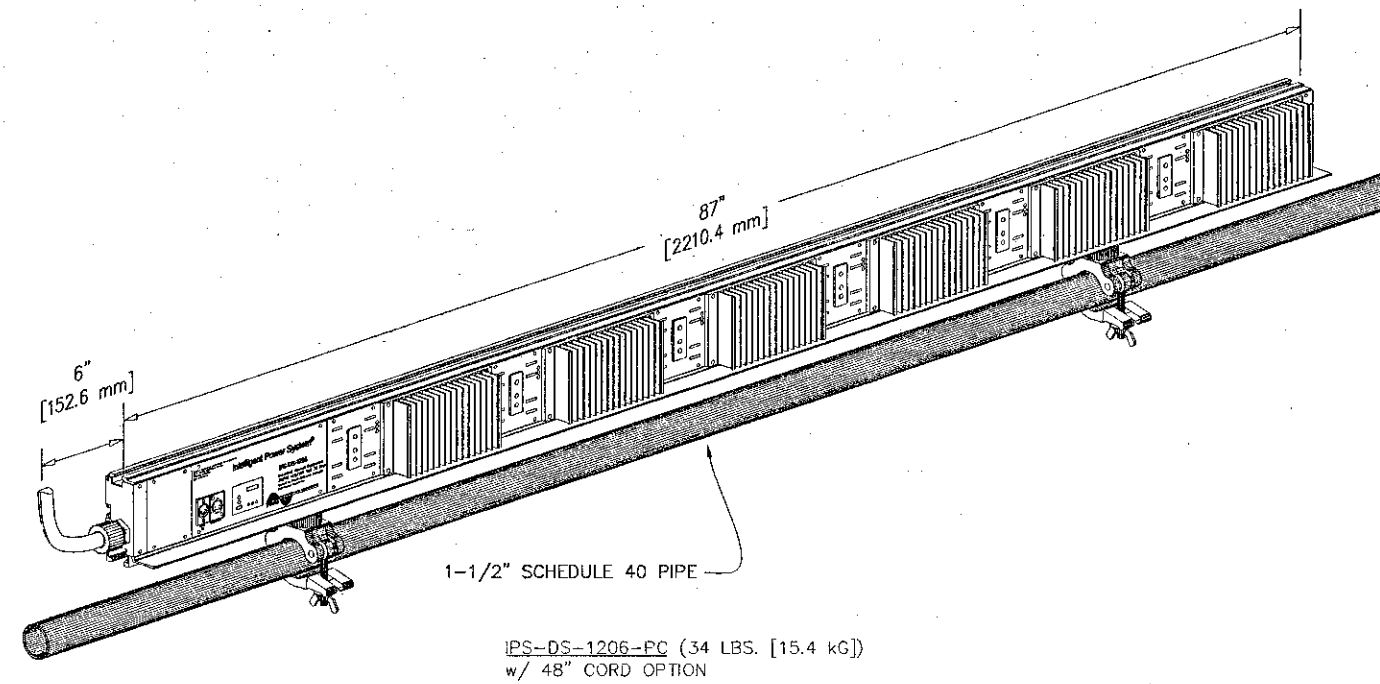
MOUNTS ON STANDARD 2 1/8" DEEP MINIMUM 4" SQUARE ELECTRICAL BOX RACO #231, #233 OR EQUAL (BOX NOT by R/ET)

IPS-SW-101 DETAIL (9)
SCALE: NONE

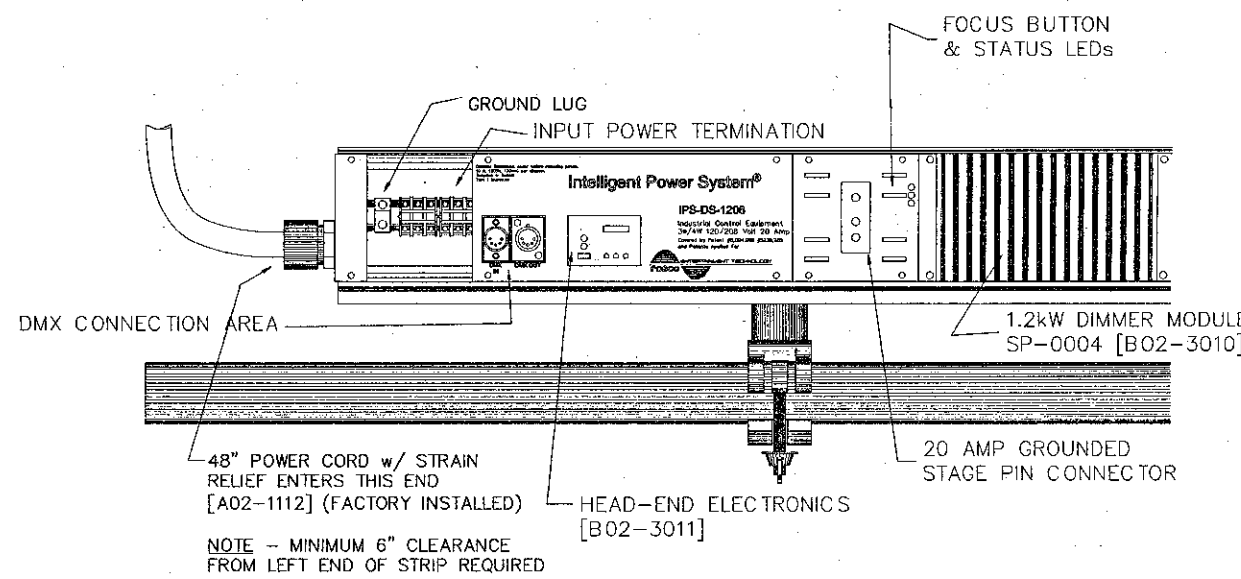


MOUNTS ON STANDARD 2 1/8" DEEP MINIMUM 4" SQUARE ELECTRICAL BOX RACO #231, #233 OR EQUAL (BOX NOT by R/ET)

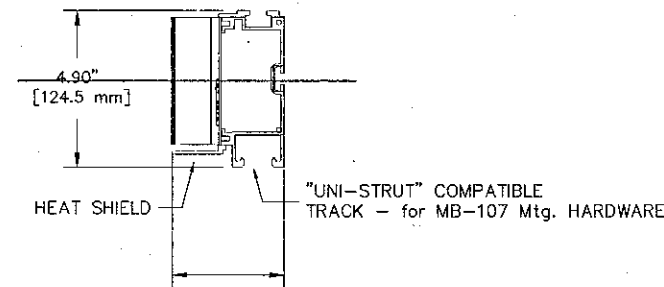
IPS-SW-102 DETAIL (10)
SCALE: NONE



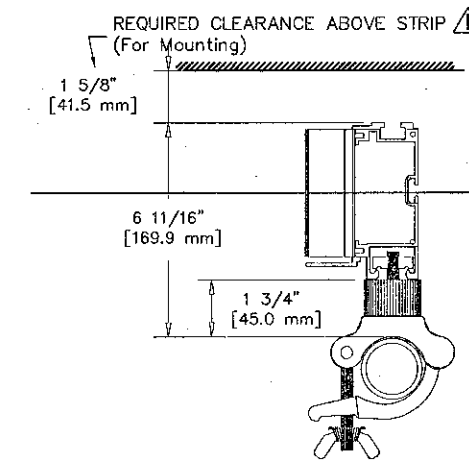
ISOMETRIC VIEW OF DIMMER BAR (1)
SCALE: NONE



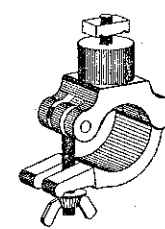
DIMMER BAR CONTROL ELECTRONICS DETAIL (2)
SCALE: NONE



DIMMER BAR SIDE VIEW (3)
SCALE: NONE

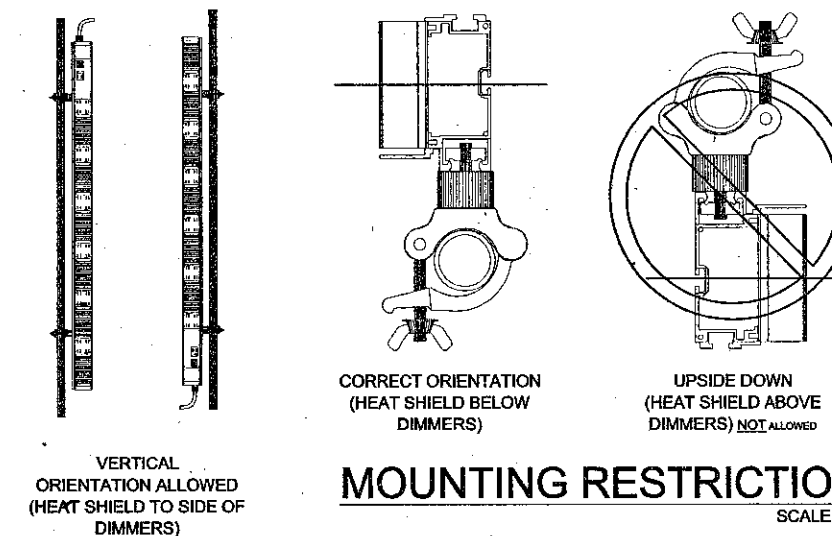


DIMMER BAR MOUNTING DETAIL (4)
SCALE: NONE



2- PER STRIP; 12-TOTAL REQUIRED (FOR 1-1/2" SCHEDULE 40 PIPE OR 2" ALUMINUM TUBE ONLY)
-MAX 5' SPACING PER NEC- (1-1/2 LBS [0.7 kg] Ea.)

HARDWARE DETAIL (5)
SCALE: NONE



MOUNTING RESTRICTIONS (6)
SCALE: NONE

SHEET NOTES:

- NO POWER OR CONTROL CONDUIT SHALL BE ATTACHED TO THE LIGHTING GRID IN ANY MANNER.
- ALL LIGHTING FIXTURES SHALL BE SECONDARILY SUPPORTED WITH SAFETY CABLES, PROVIDED BY CONTRACTOR.
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805/883-1725 SANTA BARBARA, CA 93101

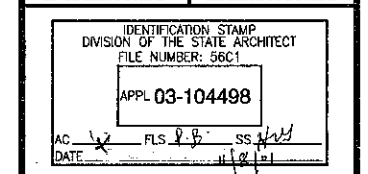
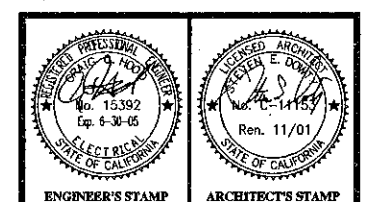
STEVE DOWDY, A.I.A.
PRINCIPAL IN CHARGE

THIERRY H. CASSAN
PROJECT DESIGNER

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CONSULTING ELECTRICAL ENGINEERS
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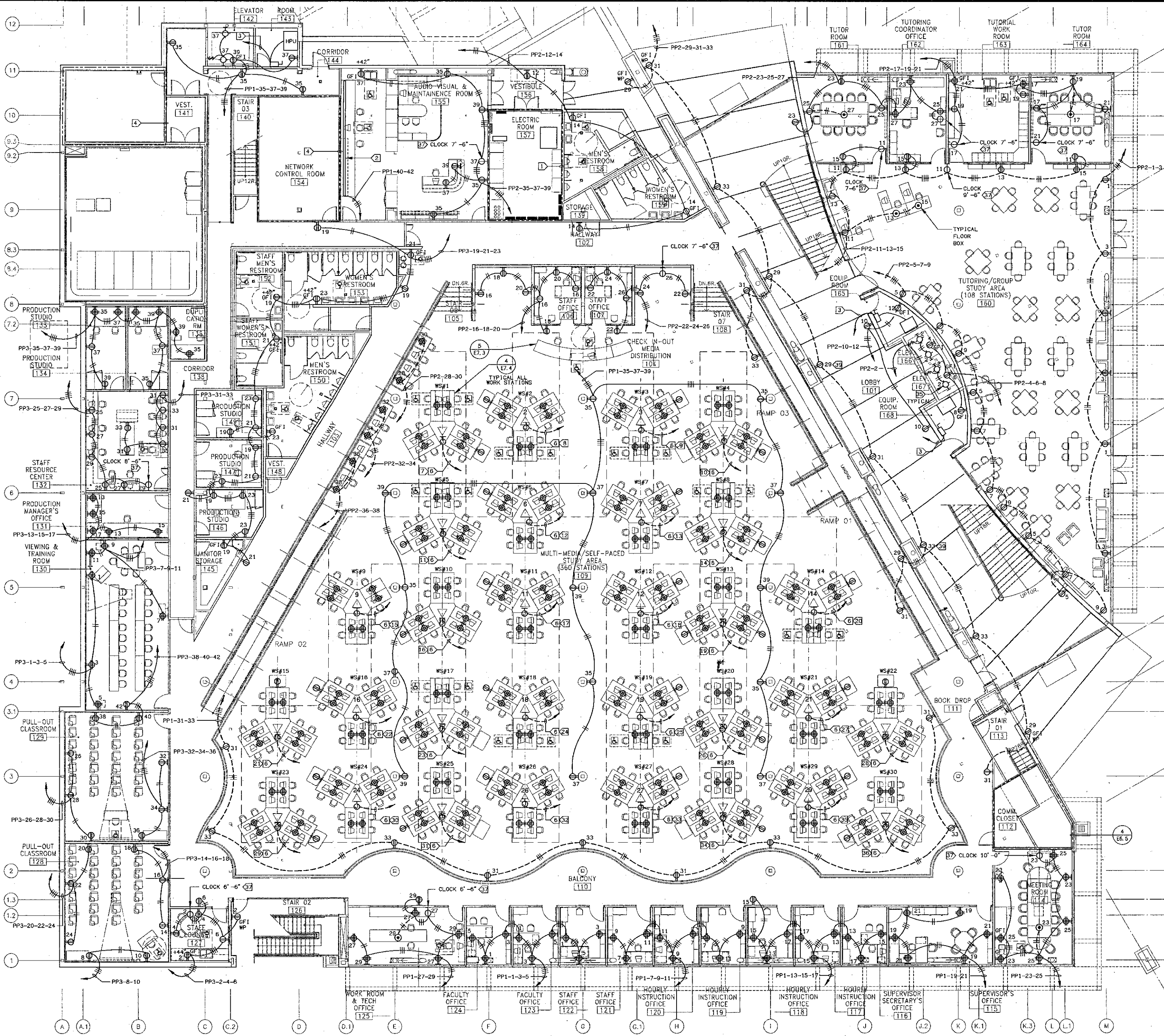
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**VENTURA COLLEGE
LEARNING RESOURCES CENTER**
Ventura County Community College District
Ventura, CA 93003
4667 Telegraph Road



NO.	DESCRIPTION	DATE	BY

DRAWN	DENISE CUNNINGHAM
CHECKED	CRAIG HOOD
DATE	09/24/01
JOB NO.	99245
SHEET TITLE	LIGHTING DETAILS
SHEET	E3.6



FIRST FLOOR POWER PLAN
 SCALE 1/8" = 1'-0" **1**

SHEET NOTES:

1. CONTRACTOR SHALL VERIFY LOCATION & REQUIREMENTS OF ALL DEVICES REQUIRING ELECTRICAL CONNECTION PRIOR TO BID PROPOSAL, ROUGH-IN AND FINISH.
2. CONTRACTOR SHALL, IN ROUTING ALL CIRCUITS, INCREASE CONDUIT & CONDUIT SIZE TO ALLOW FOR VOLTAGE DROP SHOULD THE CONTRACTOR EXCEED ROUTING INDICATED ON DRAWING. ENGINEER OF RECORD MUST BE NOTIFIED PRIOR TO ANY DEVIATIONS FROM APPROVED PLAN CHECK (PERMIT SET) DRAWINGS.
3. COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES, AND WIRING REQUIRED WHETHER SHOWN ON ELECTRICAL DRAWINGS OR NOT.
4. CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL CONDUCTORS PER CONDUCTOR MANUFACTURERS RECOMMENDATIONS PER THE NATIONAL ELECTRICAL CODE AND PER LOCAL AUTHORITIES HAVING JURISDICTION.
5. 3/4" CONDUIT MINIMUM U.O.N.
6. PROVIDE CODE SIZE EQUIPMENT GROUNDING CONDUCTORS IN ALL OCCUPIED CONDUITS.
7. ALL DEVICES WITH 10 SUBSCRIPT, ARE ISOLATED GROUND RECEPTACLES WITH SEPARATE 10 CONDUCTOR TO PANELBOARD.
8. PROVIDE CONTROLS FOR MECHANICAL EQUIPMENT PER MECHANICAL DOCUMENTS. VERIFY LOCATION AND REQUIREMENTS OF MECHANICAL EQUIPMENT ON MECHANICAL DOCUMENTS.
9. VERIFY LOCATION OF ALL DEVICES ON ARCHITECTURAL PLANS.
10. VERIFY THE EXACT ROUTING OF ALL EXPOSED CONDUIT WITH OWNER PRIOR TO INSTALLATION.

KEY NOTES:

1. SEE DRAWING E7.1 FOR ENLARGED PLAN OF ELECTRICAL ROOM.
2. WIREMOLD 5400 WITH POWER AND DATA OUTLETS 12" ON CENTER.
3. SEE DRAWING E2.2 FOR ELEVATOR FEEDER REQUIREMENTS.
4. SEE DRAWING E6.4 FOR ENLARGED PLAN OF COMMUNICATIONS ROOM.
5. (4) 1" C & 12#10AWG & 1#10 GND HOMERUN TO PANELBOARD PPK.
6. 1-1/4" C-14#10 & 3#10 GND THRU/THIN 90° INSULATION. CIRCUITS AS NOTED.
7. CL-1-1, 3, 5, 7, 9, 11, 13.
8. CL-1-15, 17, 19, 21, 23, 25, 27.
9. CL-1-29, 31, 33, 35, 37, 39, 41.
10. CL-1-2, 4, 6, 8, 10, 12, 14.
11. CL-1-16, 18, 20, 22, 24, 26, 28.
12. CL-2-1, 3, 5, 7, 9, 11, 13.
13. CL-2-15, 17, 19, 21, 23, 25, 27.
14. CL-2-29, 31, 33, 35, 37, 39, 41.
15. CL-2-2, 4, 6, 8, 10, 12, 14.
16. CL-2-16, 18, 20, 22, 24, 26, 28.
17. CL-2-30, 32, 34, 36, 38, 40, 42.
18. CL-3-1, 3, 5, 7, 9, 11, 13.
19. CL-3-15, 17, 19, 21, 23, 25, 27.
20. CL-3-29, 31, 33, 35, 37, 39, 41.
21. CL-3-2, 4, 6, 8, 10, 12, 14.
22. CL-3-16, 18, 20, 22, 24, 26, 28.
23. CL-3-30, 32, 34, 36, 38, 40, 42.
24. CL-4-1, 3, 5, 7, 9, 11, 13.
25. CL-4-15, 17, 19, 21, 23, 25, 27.
26. CL-4-29, 31, 33, 35, 37, 39, 41.
27. CL-4-2, 4, 6, 8, 10, 12, 14.
28. CL-4-16, 18, 20, 22, 24, 26, 28.
29. CL-4-30, 32, 34, 36, 38, 40, 42.
30. CL-5-1, 3, 5, 7, 9, 11, 13.
31. CL-5-15, 17, 19, 21, 23, 25, 27.
32. CL-5-29, 31, 33, 35, 37, 39, 41.
33. CL-5-2, 4, 6, 8, 10, 12, 14.
34. CL-5-16, 18, 20, 22, 24, 26, 28.
35. CL-5-30, 32, 34, 36, 38, 40, 42.
36. CL-1-30, 32, 34, 36, 38, 40, 42.
37. CLOCK OUTLET VERIFY MOUNTING ELEVATION PRIOR TO ROUGH-IN. BRYANT MODEL #2828-65 DEVICE.
38. ELEVATOR PIT LIGHTING; VAPOR TIGHT JELLY JAR WITH WIRE BASKET HUBBELL VMX-150 W/100W A-19.
39. VERIFY & PROVIDE CONNECTION TO PLASMA SCREEN PER VENDORS SHOP DRAWINGS.

KBZ

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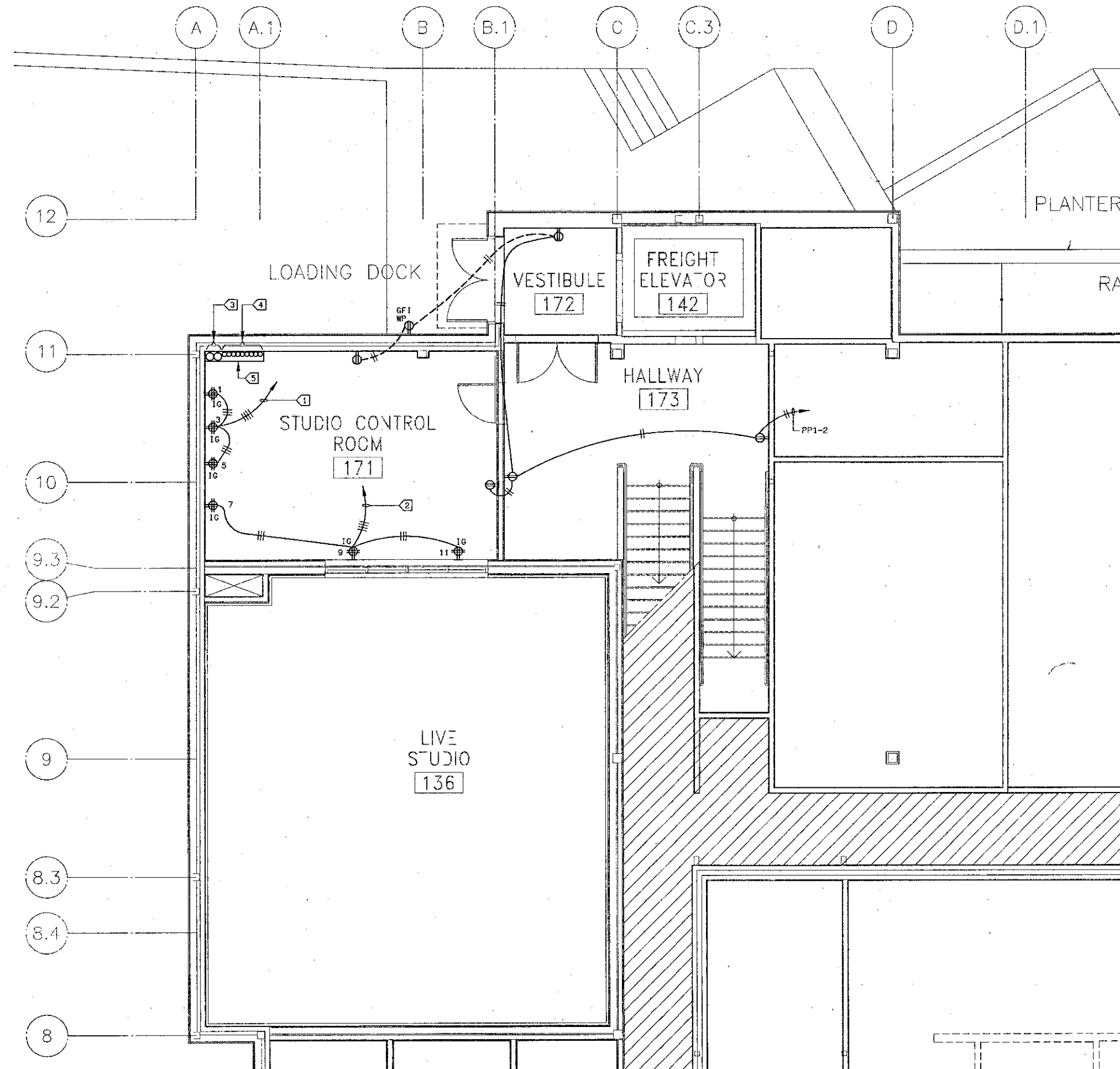
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NO.	DESCRIPTION	DATE	BY

DRAWN DENISE CUNNINGHAM
 CHECKED CRAIG HOOD
 DATE 09/24/01
 JOB NO. 99245
 SHEET TITLE
FIRST FLOOR POWER PLAN
 SHEET
E4.1



MEZZANINE FLOOR POWER PLAN 1
SCALE 1/4" = 1'-0"

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- VERIFY LOCATION OF ALL DEVICES ON ARCHITECTURAL PLANS.
- VERIFY THE EXACT ROUTING OF ALL EXPOSED CONDUIT WITH OWNER PRIOR TO INSTALLATION.

KEY NOTES:

- 1P-1, 3, 5; 3/4"C-6#10 & 1#10 EG & 1#10 IG.
- 1P-7-9-11; 3/4"C-6#10 & 1#10 EG & 1#10 IG.
- (2) 4"C.O. TO ROOM NO. 137.
- (9) 1-1/4"C.O. TO ROOMS 130, 131, 133, 134, 135, 136, 146, 147, & 149 FOR A/V CABLING.
- A/V CABLING WIRE WAY B-LINE NO. 8848-12 WT.



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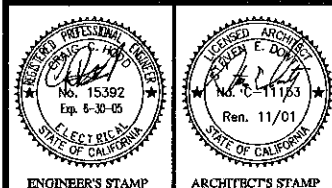
THIERRY H. CASSAN
PROJECT DESIGNER

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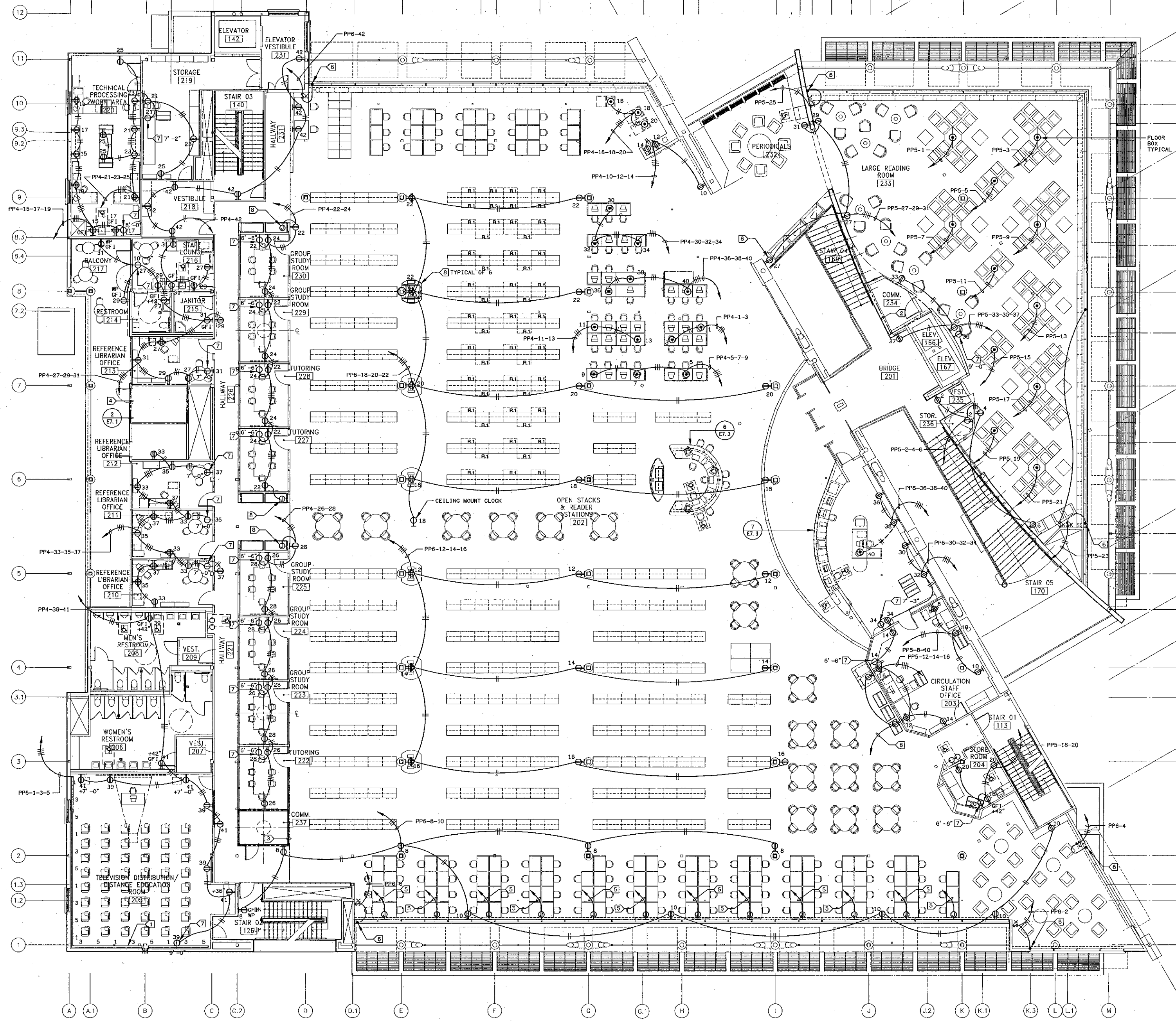
VENTURA COLLEGE
LEARNING RESOURCES CENTER
Ventura County Community College District
Ventura, CA 93003
4667 Telegraph Road



IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
FILE NUMBER: 56C1
APPL 03-104498
DATE: 11/11/01

NO.	DESCRIPTION	DATE	BY
REVISION			

DRAWN	DENISE CUNNINGHAM
CHECKED	CRAG HOOD
DATE	09/24/01
JOB NO.	99245
SHEET TITLE	MEZZANINE FLOOR POWER PLAN
SHEET	E4.1.1



SECOND FLOOR POWER PLAN ①
SCALE: 1/8" = 1'-0"

SHEET NOTES:

- CONTRACTOR SHALL VERIFY LOCATION & REQUIREMENTS OF ALL DEVICES REQUIRING ELECTRICAL CONNECTION PRIOR TO BID PROPOSAL, ROUGH-IN AND FINISH.
- CONTRACTOR SHALL, IN ROUTING ALL CIRCUITS, INCREASE CONDUCTOR & CONDUIT SIZE TO ALLOW FOR VOLTAGE DROP SHOULD THE CONTRACTOR EXCEED ROUTING INDICATED ON DRAWING. ENGINEER OF RECORD MUST BE NOTIFIED PRIOR TO ANY DEVIATIONS FROM APPROVED PLAN CHECK (PERMIT SET) DRAWINGS.
- COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES, AND WIRING REQUIRED WHETHER SHOWN ON ELECTRICAL DRAWINGS OR NOT.
- CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL CONDUCTORS PER CONDUCTOR MANUFACTURERS RECOMMENDATIONS, PER THE NATIONAL ELECTRICAL CODE AND PER LOCAL AUTHORITIES HAVING JURISDICTION.
- 3/4" CONDUIT MINIMUM U.O.N., #10 AWG MINIMUM.
- PROVIDE CODE SIZE EQUIPMENT GROUNDING CONDUCTORS IN ALL OCCUPIED CONDUITS.
- ALL DEVICES WITH IG SUBSCRIPT, ARE ISOLATED GROUND RECEPTACLES WITH SEPARATE IG CONDUCTOR TO PANELBOARD.
- PROVIDE CONTROLS FOR MECHANICAL EQUIPMENT PER MECHANICAL DOCUMENTS. VERIFY LOCATION AND REQUIREMENTS OF MECHANICAL EQUIPMENT ON MECHANICAL DOCUMENTS.
- VERIFY LOCATION OF ALL DEVICES ON ARCHITECTURAL PLANS.
- VERIFY THE EXACT ROUTING OF ALL EXPOSED CONDUIT WITH OWNER PRIOR TO INSTALLATION.

KEY NOTES:

- ① WIREMOLD 5400 WITH POWER AND DATA OUTLETS 18" ON CENTER.
- ② SEE DRAWING E6.5, DETAIL 1 FOR ROOM EQUIPMENT PLAN.
- ③ SEE DRAWING E6.5, DETAIL 2 FOR ROOM EQUIPMENT PLAN.
- ④ SEE DRAWING E7.1, DETAIL 2 FOR ROOM EQUIPMENT PLAN.
- ⑤ 3/4" C.O. HOMERUN TO PANEL "PP6" FOR FUTURE STUDENT WORK STATION.
- ⑥ MOTORIZED WINDOW SHADE HOMERUN VIA REMOTE CONTROLLER VERIFY AND PROVIDE POWER AND CONTROL CONNECTIONS PER VENDORS SHOP DRAWINGS.
- ⑦ CLOCK OUTLET VERIFY MOUNTED ELEVATION PRIOR TO ROUGH-IN. BRYANT MODEL #2528-65 DEVICE.
- ⑧ VERIFY AND PROVIDE CONNECTION TO DISPLAY CABINET LIGHTING PER VENDORS SHOP DRAWINGS.

KRUGER BENSEN ZIEMER ARCHITECTS, INC.
30 W. MARILLONA SANTA BARBARA, CA 93101
805/963.1728

STEVE DOWTY, A.I.A.
PRINCIPAL IN CHARGE

THIERRY H. CASSAN
PROJECT DESIGNER

All items, shop drawings and notes included or represented by the drawing are made to suit the project of design shown. They are preliminary and subject to change without notice. The contractor shall be responsible for verifying the accuracy of all dimensions and quantities shown on this drawing. The contractor shall be responsible for obtaining all necessary permits and approvals from the appropriate authorities. The contractor shall be responsible for coordinating with all other trades and for providing all necessary information for the preparation of shop drawings. The contractor shall be responsible for providing all necessary information for the preparation of shop drawings. The contractor shall be responsible for providing all necessary information for the preparation of shop drawings.

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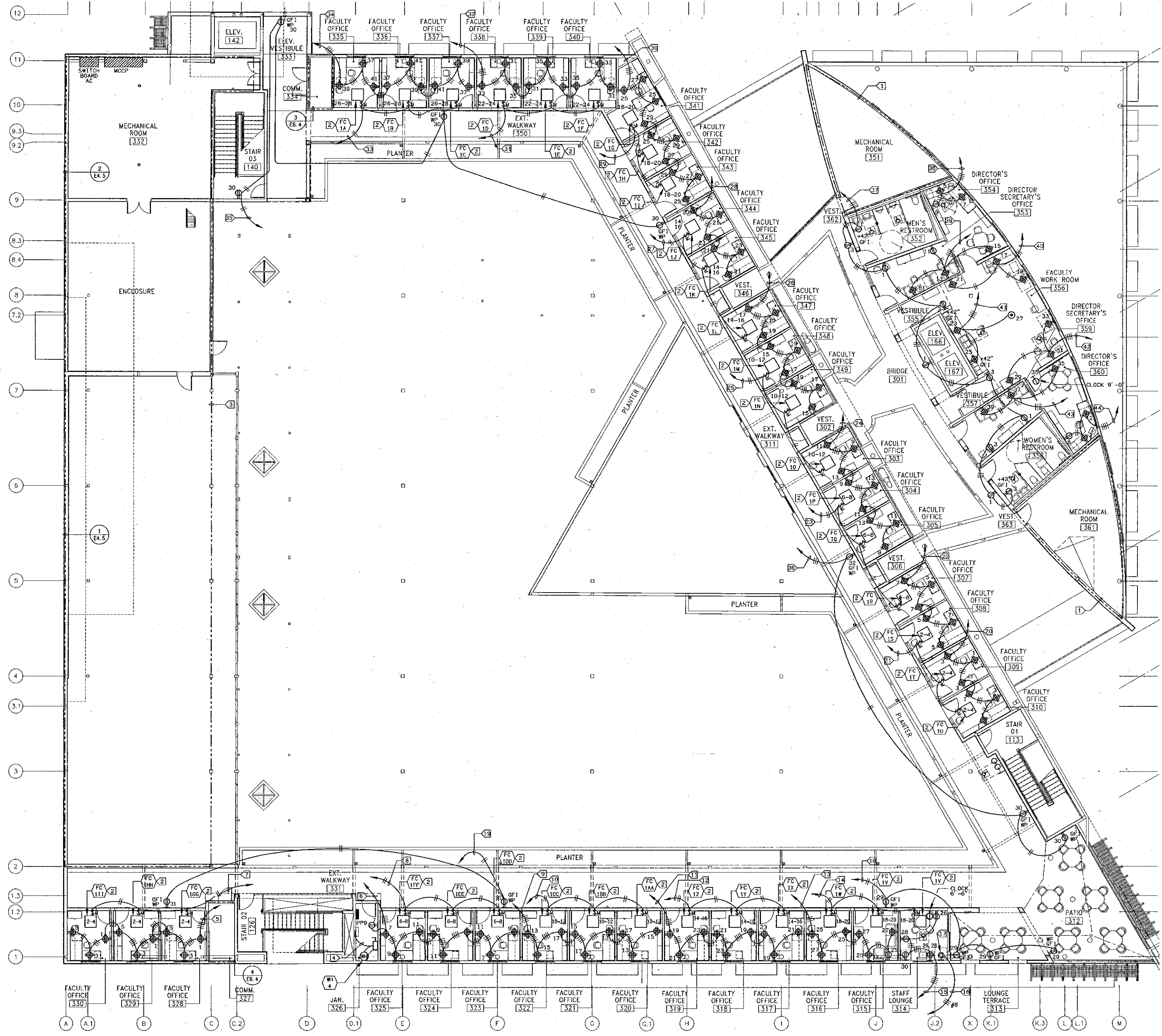
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FILE NUMBER: 56C1
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DATE: 09/24/01
BY: R.S.L.P. SS

NO.	DESCRIPTION	DATE	BY

DRAWN: DENISE CUNNINGHAM
CHECKED: CRAIG HOOD
DATE: 09/24/01
JOB NO.: 99245

SHEET TITLE:
SECOND FLOOR POWER PLAN

SHEET: **E4.2**



SHEET NOTES:

1. CONTRACTOR SHALL VERIFY LOCATION & REQUIREMENTS OF ALL DEVICES REQUIRING ELECTRICAL CONNECTION PRIOR TO BID PROPOSAL, ROUGH-IN AND FINISH.
2. CONTRACTOR SHALL, IN ROUTING ALL CIRCUITS, INCREASE CONDUCTOR & CONDUIT SIZE TO ALLOW FOR VOLTAGE DROP SHOULD THE CONTRACTOR EXCEED ROUTING INDICATED ON DRAWING. ENGINEER OF RECORD MUST BE NOTIFIED PRIOR TO ANY DEVIATIONS FROM APPROVED PLAN CHECK (PERMIT SET) DRAWINGS.
3. COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES, AND WIRING REQUIRED WHETHER SHOWN ON ELECTRICAL DRAWINGS OR NOT.
4. CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL CONDUCTORS PER CONDUCTOR MANUFACTURER'S RECOMMENDATIONS, PER THE NATIONAL ELECTRICAL CODE AND PER LOCAL AUTHORITIES HAVING JURISDICTION.
5. 3/4" CONDUIT MINIMUM U. O. N.
6. PROVIDE CODE SIZE EQUIPMENT GROUNDING CONDUCTORS IN ALL OCCUPIED CONDUITS.
7. ALL DEVICES WITH 1G SUBSCRIPT, ARE ISOLATED GROUND RECEPTACLES WITH SEPARATE 1G CONDUCTOR TO PANELBOARD.
8. PROVIDE CONTROLS FOR MECHANICAL EQUIPMENT PER MECHANICAL DOCUMENTS. VERIFY LOCATION AND REQUIREMENTS OF MECHANICAL EQUIPMENT ON MECHANICAL DOCUMENTS.
9. VERIFY LOCATION OF ALL DEVICES ON ARCHITECTURAL PLANS.
10. VERIFY THE EXACT ROUTING OF ALL EXPOSED CONDUIT WITH OWNER PRIOR TO INSTALLATION.

KEY NOTES:

1. SEE DRAWING E4.4 FOR MECHANICAL EQUIPMENT POWER REQUIREMENTS IN THE AREA.
2. FAN COIL IS MOUNTED IN CEILING CAVITY.
3. SEE DRAWING E4.5 FOR POWER REQUIREMENTS IN THE AREA.
4. NOT USED.
5. PP9-1-3-5.
6. PP9-7-9-11.
7. PP9-2-4.
8. PP9-6-8.
9. PP9-13-15-17.
10. PP9-10-12.
11. PP9-19-21-23.
12. PP9-14-16.
13. PP9-25-27.
14. PP9-18-20.
15. PP9-26-28-30.
16. PP9-22-24.
17. NEMA 7-50R.
18. PP9-29.
19. PP9-31.
20. PP8-1-3.
21. PP8-2-4.
22. PP8-5-7.
23. PP8-6-8.
24. PP8-9-11-13.
25. PP8-10-12.
26. PP8-15-17-19.
27. PP8-14-16.
28. PP8-21-23.
29. PP8-18-20.
30. PP8-25-27-29.
31. PP8-22-24.
32. PP8-31-33-35.
33. PP8-26-28.
34. PP8-37-39-41.
35. PP8-30.
36. PP8-32.
37. PP7-1-3.
38. PP7-5-7-9.
39. PP7-11-13-15.
40. PP7-17-19-21.
41. PP7-23-25-27.
42. PP7-29-31-33.
43. PP7-35-37-39.
44. PP7-2-4-6.
45. AC-12; 1"0-2#6 & 1#10 GROUND.

KRUGER BENSEN ZIEMER ARCHITECTS, INC.
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STEVE DOWTY, A.I.A.
PRINCIPAL IN CHARGE

THERRY H. CASSAN
PROJECT DESIGNER

All sheet design arrangements and plans indicated or mentioned in this drawing are to be used in the absence of design documents. It is the contractor's responsibility to verify the accuracy of all information shown on this drawing. The contractor shall be responsible for any errors or omissions. The contractor shall be responsible for any delays or cost overruns caused by any deviations from approved plan check (permit set) drawings.

LEWIS & ASSOCIATES INC.
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**VENTURA COLLEGE
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APP# 03-104498
DATE: 09/24/01

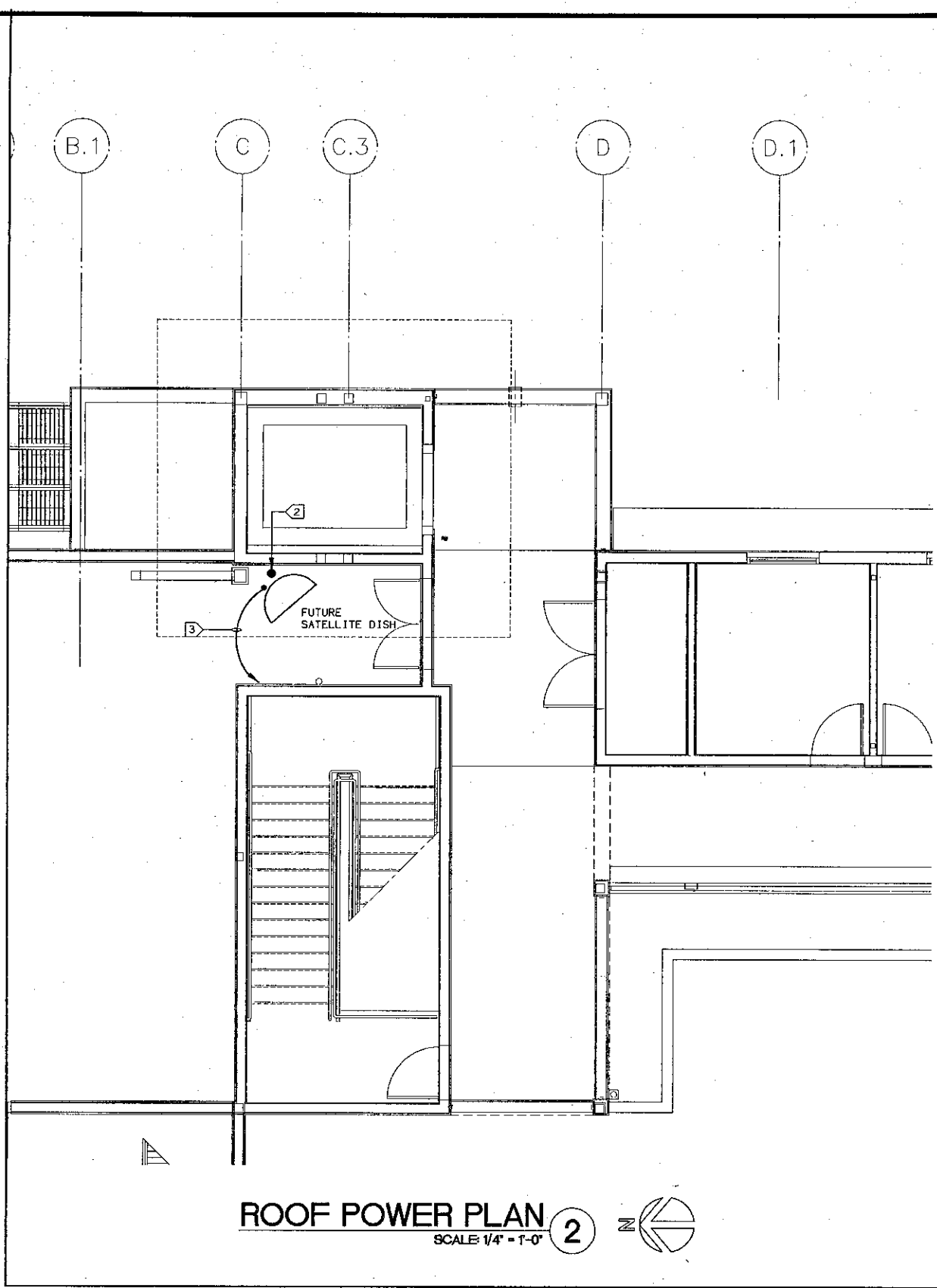
NO.	DESCRIPTION	DATE	BY

Drawn: DENISE CLUNNINGHAM
Checked: CRAIG HOOD
Date: 09/24/01
Job No.: 99245

THIRD FLOOR POWER PLAN

SHEET NO. **E4.3**

THIRD FLOOR POWER PLAN
SCALE: 1/8" = 1'-0"



ROOF POWER PLAN ②
SCALE 1/4" = 1'-0"

ROOF POWER PLAN ①
SCALE 1/4" = 1'-0"

SHEET NOTES:

1. FIELD VERIFY MECHANICAL EQUIPMENT LOCATIONS.
2. SEE ELECTRICAL SCHEDULE FOR MECHANICAL EQUIPMENT FOR ELECTRICAL REQUIREMENTS.
3. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES.
4. THE LOCATION OF ALL ROOF PENETRATIONS SHALL BE COORDINATED WITH THE ARCHITECTURAL, MECHANICAL, AND STRUCTURAL DRAWINGS.
5. PROVIDE ROOF JACKS AND PROPERLY SEAL ALL ROOF PENETRATIONS TO A LEAK FREE CONDITION.
6. THE FINAL CONNECTIONS TO EQUIPMENT SHALL BE LIQUIDTIGHT FLEXIBLE METAL CONDUIT. INSTALL WITH ENOUGH SLACK TO PRECLUDE VIBRATION TRANSMISSION. SUPPORT SHALL BE PER N.E.C. ARTICLE 351-8.
7. PROVIDE WEATHERPROOF AND EXTERIOR RATED DEVICES IN ALL EXTERIOR AREAS.
8. PROVIDE ALL DEVICES AS REQUIRED ON MECHANICAL CONTRACTOR SHOP DRAWINGS AND APPROVED SUBMITTALS.
9. NO CONDUIT/FEEDER SHALL BE PERMITTED ON THE ROOF WITH CRIPPLES. ALL FEEDERS SHALL BE RUN BENEATH THE ROOF.
10. CONTRACTOR SHALL VERIFY LOCATION & REQUIREMENTS OF ALL ELECTRICAL DEVICES PRIOR TO BID, ROUGH-IN & INSTALLATION.
11. CONTRACTOR SHALL, IN ROUTING ALL CIRCUITS, INCREASE CONDUCTOR & CONDUIT SIZE TO ALLOW FOR VOLTAGE DROP SHOULD THE CONTRACTOR EXCEED ROUTING INDICATED ON DRAWING. ENGINEER OF RECORD MUST BE NOTIFIED PRIOR TO ANY DEVIATIONS FROM APPROVED PLAN CHECK (PERMIT SET) DRAWINGS.
12. EACH DISCONNECT OR STARTER AND A SPARE SET OF FUSES SHALL BE CONTRACTOR PROVIDED.

KEY NOTES:

- ① FOR HVAC EQUIPMENT FEEDER AND DISCONNECT INFORMATION SEE MECHANICAL EQUIPMENT SCHEDULE, DRAWING EA. 6.
- ② PROVIDE 3" RIGID CONDUIT RISER FOR FUTURE SATELLITE DISH PER OWNERS REQUIREMENTS.
- ③ 1-1/4" & VERIFY AND PROVIDE CABLING PER TELEVISION SIGNAL PROVIDERS REQUIREMENTS. HOMERUN TO ROOM #137.

KRUGER BENSEN ZIEMER ARCHITECTS, INC. AIA
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PRINCIPAL IN CHARGE

THIERRY H. CASSAN
PROJECT DESIGNER

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**VENTURA COLLEGE
LEARNING RESOURCES CENTER**

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Ventura, CA 93003

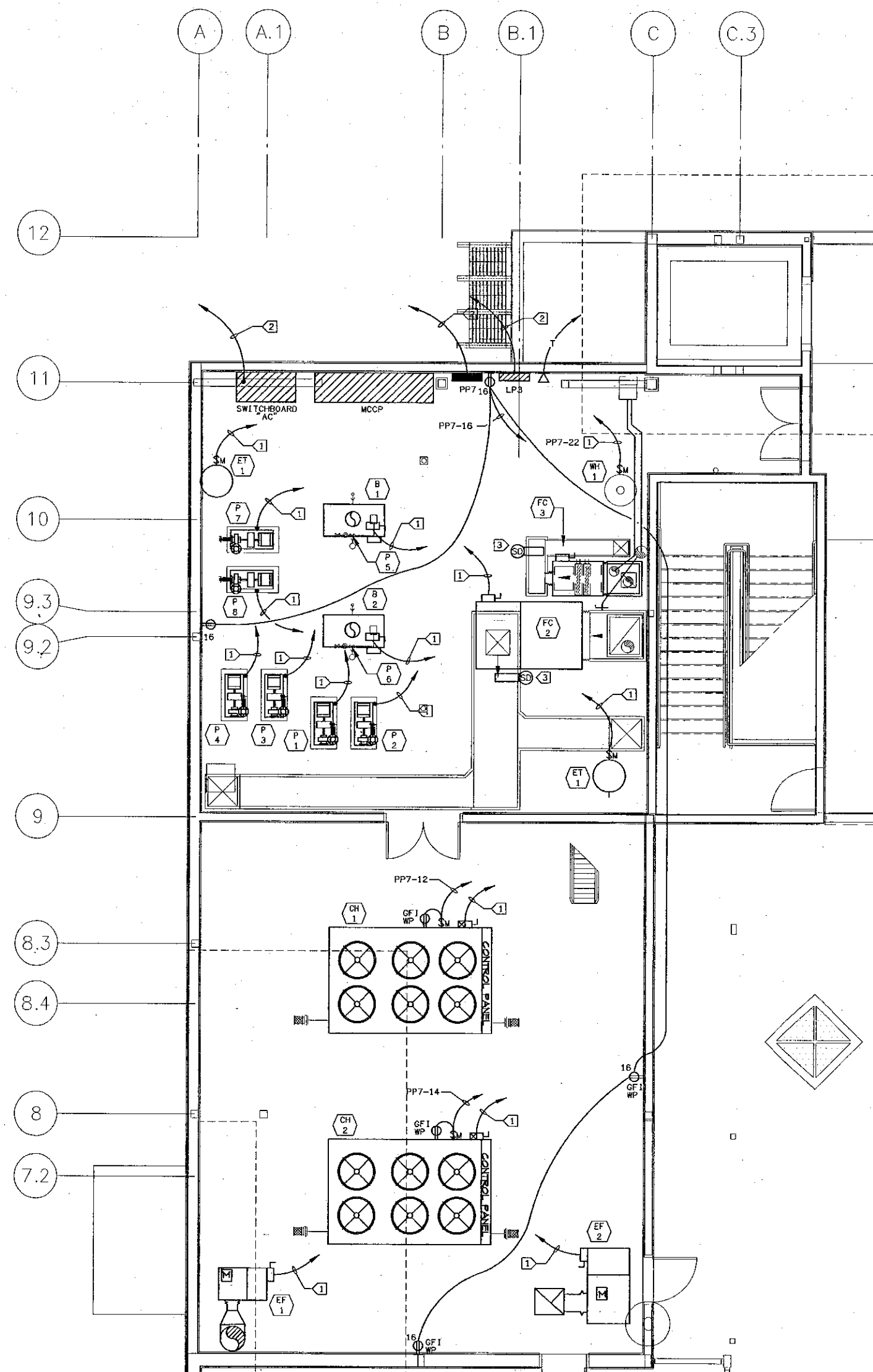
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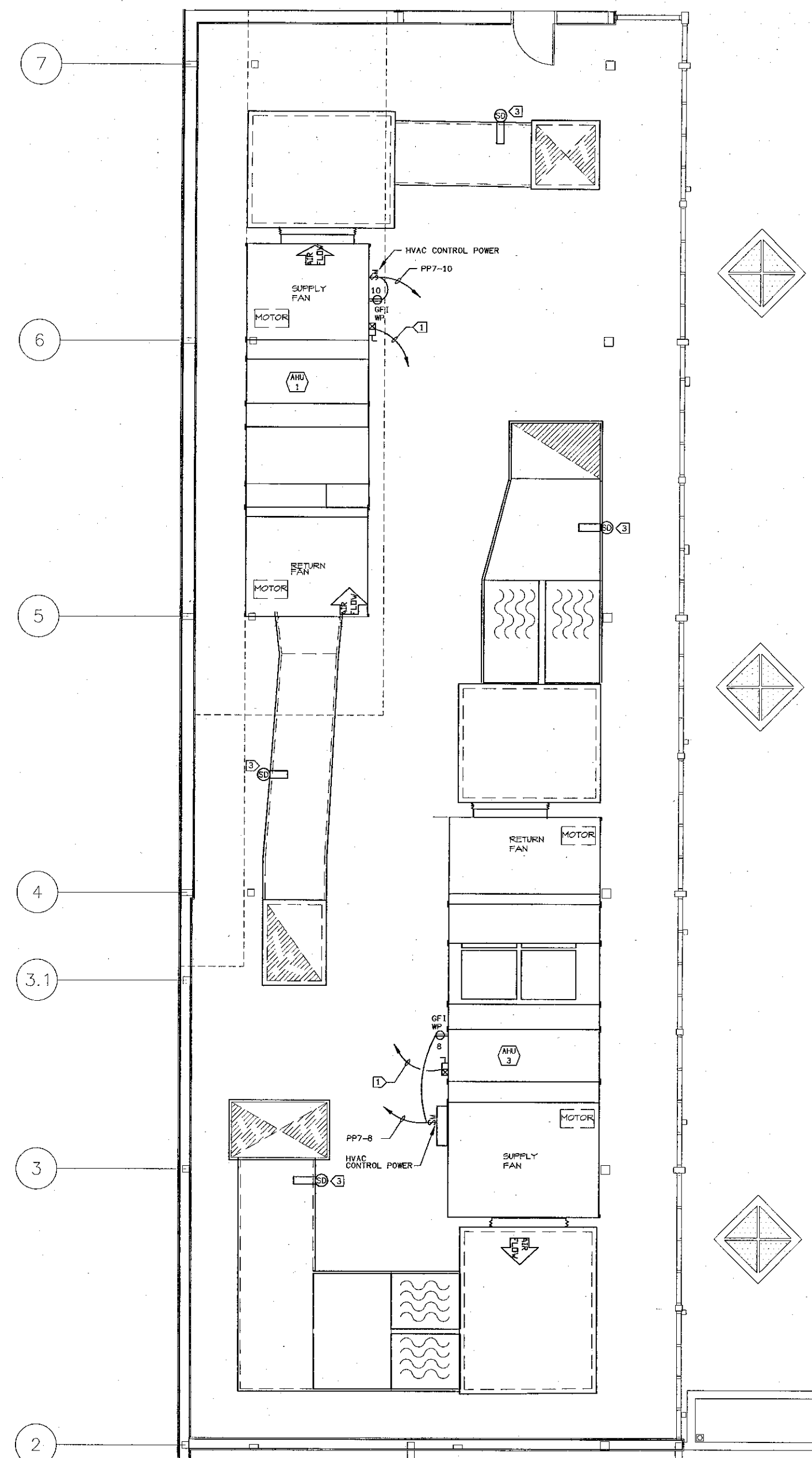
DRAWN DENISE CUNNINGHAM
CHECKED CRAIG HOOD
DATE 09/24/01
JOB NO. 99245

SHEET TITLE
ROOF POWER PLAN

SHEET
E4.4



MECH. RM. 332 / CHILLER ENCLOSURE POWER PLAN ②
SCALE 1/4" = 1'-0"



PARTIAL ROOF POWER PLAN ①
SCALE 1/4" = 1'-0"

SHEET NOTES:

1. FIELD VERIFY MECHANICAL EQUIPMENT LOCATIONS.
2. SEE ELECTRICAL SCHEDULE FOR MECHANICAL EQUIPMENT FOR ELECTRICAL REQUIREMENTS.
3. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES.
4. THE LOCATION OF ALL ROOF PENETRATIONS SHALL BE COORDINATED WITH THE ARCHITECTURAL, MECHANICAL, AND STRUCTURAL DRAWINGS.
5. PROVIDE ROOF JACKS AND PROPERLY SEAL ALL ROOF PENETRATIONS TO A LEAK FREE CONDITION.
6. THE FINAL CONNECTIONS TO EQUIPMENT SHALL BE LIQUIDTIGHT FLEXIBLE METAL CONDUIT. INSTALL WITH ENOUGH SLACK TO PRECLUDE VIBRATION TRANSMISSION. SUPPORT SHALL BE PER N.E.C. ARTICLE 351-8.
7. PROVIDE WEATHERPROOF AND EXTERIOR RATED DEVICES IN ALL EXTERIOR AREAS.
8. PROVIDE ALL DEVICES AS REQUIRED ON MECHANICAL CONTRACTOR SHOP DRAWINGS AND APPROVED SUBMITTALS.
9. NO CONDUIT/FEEDER SHALL BE PERMITTED ON THE ROOF WITH CRIPPLES. ALL FEEDERS SHALL BE RUN BENEATH THE ROOF.
10. ALL DISCONNECTS SHALL BE MOUNTED ON UNISTRUT ON AH UNIT.
11. CONTRACTOR SHALL VERIFY LOCATION & REQUIREMENTS OF ALL ELECTRICAL DEVICES PRIOR TO BID, ROUGH-IN & INSTALLATION.
12. CONTRACTOR SHALL, IN ROUTING ALL CIRCUITS, INCREASE CONDUCTOR & CONDUIT SIZE TO ALLOW FOR VOLTAGE DROP SHOULD THE CONTRACTOR EXCEED ROUTING INDICATED ON DRAWING. ENGINEER OF RECORD MUST BE NOTIFIED PRIOR TO ANY DEVIATIONS FROM APPROVED PLAN CHECK (PERMIT SET) DRAWINGS.
13. EACH DISCONNECT OR STARTER AND A SPARE SET OF FUSES SHALL BE CONTRACTOR PROVIDED.

KEY NOTES:

- ① FOR HVAC EQUIPMENT FEEDER AND DISCONNECT INFORMATION SEE MECHANICAL EQUIPMENT SCHEDULE, DRAWING EA.6.
- ② HOMERUN FEEDER TO FIRST FLOOR ELECTRICAL ROOM #157. SEE DRAWING E2.2 FOR FEEDER REQUIREMENTS.
- ③ SEE DRAWING E5.3 FOR FIRE ALARM SYSTEM CONNECTIONS.

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ARCHITECT'S STAMP: T. CASSAN, No. 11037, Ren. 11/01, State of California

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NO.	DESCRIPTION	DATE	BY

DRAWN	DENSE CUNNINGHAM
CHECKED	CRAGG HOOD
DATE	09/24/01
JOB NO.	99245
SHEET TITLE	PARTIAL ROOF POWER PLAN
SHEET	E4.5

LOCATION: MECHANICAL ROOM #332										MOTOR CONTROL CENTER														
VOLTAGE: 480V					MAIN BKR.: 200					FEEDER DESG.: X					MCCP									
FAULTY DUTY: 25000					BUS: 200					WDE: 20					DEEP: 20					HIGH: 92				
CIRC. NO.	EQUIP. DESIG.	EQUIPMENT DESCRIPTION	STR. SIZE	HP	KVA	L1	L2	L3	OVERCURRENT DEVICE	WIRE & QUANT.	CND.	COND. DIA.	REMARKS											
1	P1	CHILLED WATER PUMP	V-SP	5	5	7.6	7.6	7.6	15A 3P	3#10	#12	3/4"												
2	P2	CHILLED WATER PUMP	V-SP	5	5	7.6	7.6	7.6	15A 3P	3#10	#12	3/4"												
3	P3	CHILLED WATER PUMP	1	5	5	7.6	7.6	7.6	15A 3P	3#10	#12	3/4"												
4	P4	CHILLED WATER PUMP	1	5	5	7.6	7.6	7.6	15A 3P	3#10	#12	3/4"												
5	P5	HOT WATER PUMP	1	0.5	0.5	1.0	1.0	1.0	15A 3P	3#10	#12	3/4"												
6	P6	HOT WATER PUMP	1	0.5	0.5	1.0	1.0	1.0	15A 3P	3#10	#12	3/4"												
7	P7	HOT WATER PUMP	V-SP	1.5	1.5	2.6	2.6	2.6	15A 3P	3#10	#12	3/4"												
8	P8	HOT WATER PUMP	V-SP	1.5	1.5	2.6	2.6	2.6	15A 3P	3#10	#12	3/4"												
9		EMPTY BUCKET FULLY PREPARED																						
10		EMPTY BUCKET FULLY PREPARED																						
11		EMPTY BUCKET FULLY PREPARED																						
12		EMPTY BUCKET FULLY PREPARED																						

SCHEDULE NOTES		LINE TOTALS	LOAD SUMMARY
1. 2-SP: TWO SPEED V-SP: VARIABLE SPEED RVS: REDUCED VOLTAGE STR. FWR: FULL VOLTAGE REVERSE		L1: 37.6 A	CONNECTED LOAD 24 KVA
		L2: 37.6 A	25% OF LARGEST DEVICE 8 KVA
		L3: 37.6 A	FEEDER DEMAND LOAD 32 KVA
			FEEDER DEMAND LOAD 38 A

ELECTRICAL SCHEDULE FOR MECHANICAL EQUIPMENT

TAG #	DESCRIPTION	HP	MCA	MOCP	VOLTAGE	PHASE	NEMA STARTER SIZE	DISCONNECT	RECOMMENDED FUSE SIZE/TYPE *	REMARKS	PANEL/CIRCUIT NO.	FEEDER
AHU 1	AIR HANDLING UNIT, ROOFTOP	40	73	125	480	3	BY MANUFACTURER	100A 3P NEMA 3R	LPS-RK-90	VARIABLE FREQUENCY DRIVES BY EQUIPMENT MANUFACTURER	AC-1	1-1/2"C-3#10 & 1#10 GND
AHU 2	AIR HANDLING UNIT, ROOFTOP	10	7.6	15	480	3	VFD	30A 3P NEMA 1	LPS-RK-10	VARIABLE FREQUENCY DRIVE BY CONTRACTOR	AC-2	3/4"C-2#10 & 1#10 GND
AHU 3	AIR HANDLING UNIT, ROOFTOP	50	92	150	480	3	BY MANUFACTURER	200A 3P NEMA 3R	LPS-RK-115	VARIABLE FREQUENCY DRIVES BY EQUIPMENT MANUFACTURER	AC-3	2"C-3#10 & 1#6 GND
AHU 4	AIR HANDLING UNIT, ROOFTOP	7.5	11	20	480	3	VFD	30A 3P NEMA 1	LPS-RK-20	VARIABLE FREQUENCY DRIVE BY CONTRACTOR	AC-4	3/4"C-2#10 & 1#10 GND
B 1	BOILER	14.4	20	115	115	1		MOTOR RATED SWITCH		VERIFY & PROVIDE CONNECTION PER MANUFACTURERS SHOP DRAWINGS	PP7-18	3/4"C-2#10 & 1#10 GND
B 2	BOILER	14.4	20	115	115	1		MOTOR RATED SWITCH		VERIFY & PROVIDE CONNECTION PER MANUFACTURERS SHOP DRAWINGS	PP7-20	3/4"C-2#10 & 1#10 GND
CH 1	CHILLER	261	350	480	480	3	BY MANUFACTURER			VERIFY & PROVIDE CONNECTION PER MANUFACTURERS SHOP DRAWINGS CONTROL POWER IS 115V, 15, 30MCA, 30MOCPP	AC-5	3-1/2"C-3#500MCM & 1#3 GND
CH 2	CHILLER	261	350	480	480	3	BY MANUFACTURER			VERIFY & PROVIDE CONNECTION PER MANUFACTURERS SHOP DRAWINGS CONTROL POWER IS 115V, 15, 30MCA, 30MOCPP	AC-6	3-1/2"C-3#500MCM & 1#3 GND
EF 1	EXHAUST FAN - 2ND FLOOR	1/2			208	1		30A 2P NEMA 1	LPN-RK-7		PP7-32-34	3/4"C-2#10 & 1#10 GND
EF 2	EXHAUST FAN - 1ST FLOOR EAST	3/4			208	1		30A 2P NEMA 1	LPN-RK-10		PP7-32-34	3/4"C-2#10 & 1#10 GND
EF 4	EXHAUST FAN - AHU 2	1.5	1.5	15	460	3	VFD	30A 3P NEMA 1	LPS-RK-56	VARIABLE FREQUENCY DRIVES BY CONTRACTOR	AC-9	
EF 5	EXHAUST FAN - AHU 4	1.5	1.5	15	460	3	VFD	30A 3P NEMA 1	LPS-RK-56	VARIABLE FREQUENCY DRIVES BY CONTRACTOR	AC-10	
EF 9	EXHAUST FAN - ROOM 352	.2			110	1		MOTOR RATED SWITCH			PP7-36	3/4"C-2#10 & 1#10 GND
EF 7	EXHAUST FAN - ROOM 358	.2			110	1		MOTOR RATED SWITCH			PP7-36	3/4"C-2#10 & 1#10 GND
EF 8	EXHAUST FAN - ELECTRICAL ROOM 157	.2			110	1		MOTOR RATED SWITCH			PP7-36	3/4"C-2#10 & 1#10 GND
EF 9	EXHAUST FAN - STAFF LOUNGE	.2			110	1		MOTOR RATED SWITCH			PP7-36	3/4"C-2#10 & 1#10 GND
EF 10	EXHAUST FAN - ROOM 165	.2			110	1		MOTOR RATED SWITCH			PP7-36	3/4"C-2#10 & 1#10 GND
EF 11	EXHAUST FAN - ROOM 168	.2			110	1		MOTOR RATED SWITCH			PP7-36	3/4"C-2#10 & 1#10 GND
EF 12	EXHAUST FAN - ROOM 143	.2			110	1		MOTOR RATED SWITCH			PP7-36	3/4"C-2#10 & 1#10 GND
EF 13	EXHAUST FAN - STAFF LOUNGE ROOM 314	.2			110	1		MOTOR RATED SWITCH			PP7-36	3/4"C-2#10 & 1#10 GND
FC 1	FAN COIL - SMALL OFFICES	.6	15		208	1				SEE DRAWING E4.3 FOR BRANCH CIRCUIT		3/4"C-2#10 & 1#10 GND
FC 2	FAN COIL - SERVES TV STUDIO	5	7.6	15	460	3				VARIABLE FREQUENCY DRIVES	AC-8	
FC 3	FAN COIL - SERVES ROOM 171	1/4	6	15	115	1						3/4"C-2#10 & 1#10 GND
FC 4	FAN COIL - SERVES ROOM 137	1/6	1.25	15	110	1				WITH COND. PUMP 110V, 1.5 AMPS, LITTLE GIANT MODEL VCC-200LS		3/4"C-2#10 & 1#10 GND
FC 5	FAN COIL - SERVES ROOM 154	2-1/4	9.8	20	115	1						3/4"C-2#10 & 1#10 GND
FC 6	FAN COIL - SERVES ROOM 112		1.25	15	115	1						3/4"C-2#10 & 1#10 GND
FC 7	FAN COIL - SERVES ROOM 237		0.6	15	115	1						3/4"C-2#10 & 1#10 GND
FC 8	FAN COIL - SERVES ROOM 234		6	15	115	1						3/4"C-2#10 & 1#10 GND
FC 9	FAN COIL - SERVES ROOM 334		1.25	15	115	1						3/4"C-2#10 & 1#10 GND
FC 10	FAN COIL - SERVES ROOM 334		1.25	15	115	1						3/4"C-2#10 & 1#10 GND
P 1	CHILLED WATER PUMP	5			480	3	1	1		VARIABLE FREQUENCY DRIVES	MCCP-1	1
P 2	CHILLED WATER PUMP	5			480	3	1	1		VARIABLE FREQUENCY DRIVES	MCCP-2	1
P 3	CHILLED WATER PUMP	5			480	3	1	1		PREMIUM EFF. MOTOR STARTER	MCCP-3	1
P 4	CHILLED WATER PUMP	5			480	3	1	1		PREMIUM EFF. MOTOR STARTER	MCCP-4	1
P 5	HOT WATER PUMP	0.5			480	3	1	1		PREMIUM EFF. MOTOR STARTER	MCCP-5	1
P 6	HOT WATER PUMP	0.5			480	3	1	1		PREMIUM EFF. MOTOR STARTER	MCCP-6	1
P 7	HOT WATER PUMP	1.5			480	3	1	1		VARIABLE FREQUENCY DRIVES	MCCP-7	1
P 8	HOT WATER PUMP	1.5			480	3	1	1		VARIABLE FREQUENCY DRIVES	MCCP-8	1
WH 1	WATER HEATER - GAS									GRUNDFOSS RECIRCULATION PUMP MODEL LPT15-42 115V, .74 AMPS		
WH 2	WATER HEATER				480					GRUNDFOSS RECIRCULATION PUMP MODEL LPT15-42 115V, .74 AMPS		
WH 3	WATER HEATER				277							
WH 4	WATER HEATER				277							
SP 1	SUMP PUMP									ZOELLER MODEL M53 110V, 8 AMPS		
SP 2	SUMP PUMP									ZOELLER MODEL M53 110V, 8 AMPS		
SP 3	SUMP PUMP									ZOELLER MODEL M53 110V, 8 AMPS		


* ALL FUSES BY BUSSMANN AND SHALL BE SIZED PER MANUFACTURERS RECOMMENDATION.

SCHEDULE NOTES:

- FIELD VERIFY MECHANICAL EQUIPMENT LOCATIONS.
- ALL WORK SHALL BE COORDINATED WITH OTHER TRADES.
- PROVIDE WEATHERPROOF AND EXTERIOR RATED DEVICES IN ALL EXTERIOR AREAS.
- PROVIDE ALL ELECTRICAL DEVICES AS REQUIRED ON MECHANICAL CONTRACTOR SHOP DRAWINGS AND APPROVED SUBMITTALS.
- EACH DISCONNECT OR STARTER AND A SPARE SET OF FUSES SHALL BE CONTRACTOR PROVIDED.

SCHEDULE KEY NOTES:

- SEE "MCCP" MOTOR CONTROL SCHEDULE FOR STARTER, OCP AND FEEDER REQUIREMENTS.



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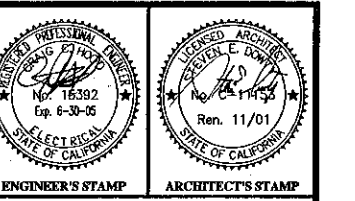
THIERRY H. CASSAN
PROJECT DESIGNER

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**VENTURA COLLEGE
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ENGINEER'S STAMP ARCHITECT'S STAMP

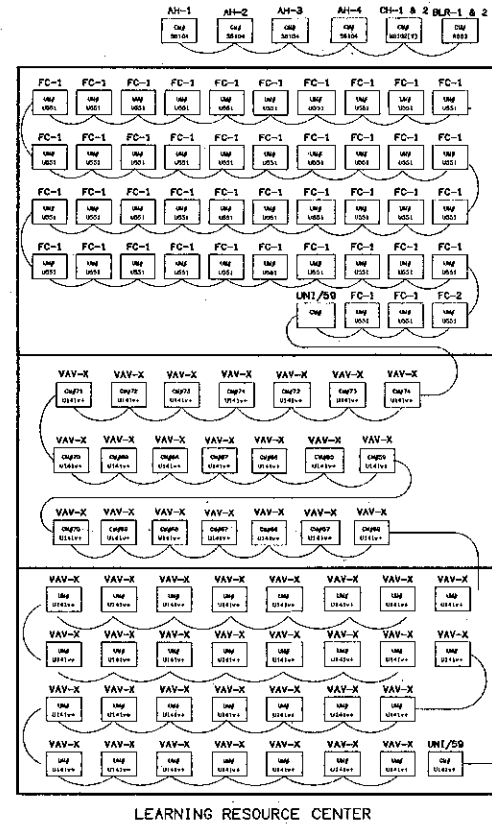
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
FILE NUMBER: 56C1
APPL 03-104498
DATE: 05/24/01

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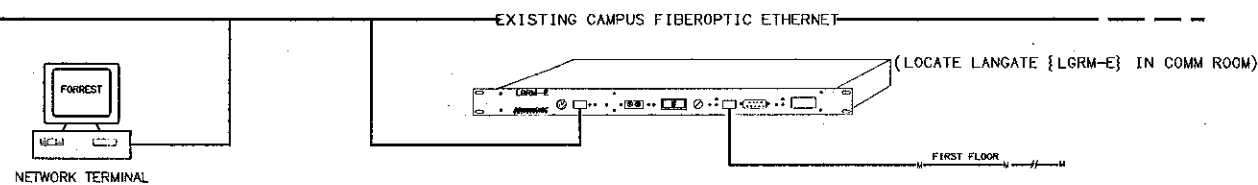
DRAWN: DENISE CUNNINGHAM
CHECKED: CRAIG HOOD
DATE: 05/24/01
JOB NO.: 99245
SHEET TITLE: EQUIPMENT SCHEDULE
SHEET: E4.6

NOTES:

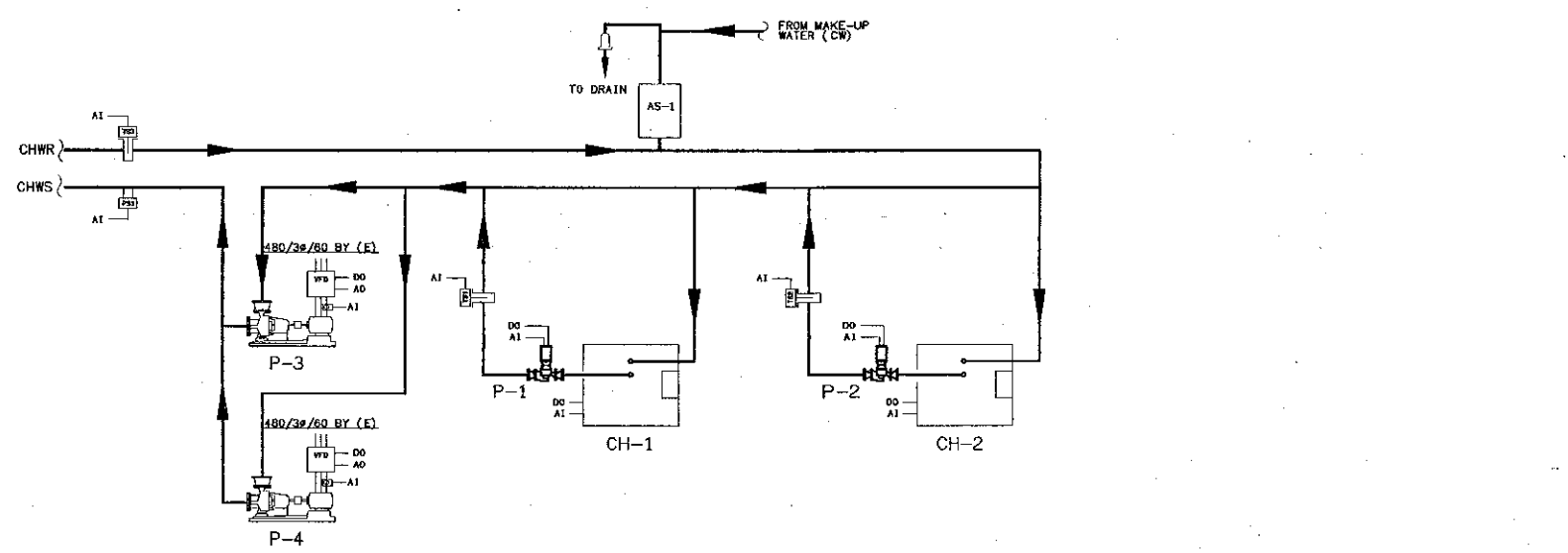
1. LOCATION OF GMD GATEWAY SHALL BE IN THE COMM ROOM.
2. THE CONTROL MODULE NETWORK (CMN) WILL BE AT 6000 BASH. WIRE IS TO BE 16ga. TRICED PAIR ON AN EIA-485 BUS.
3. (1) LAPTOP COMPUTER IS TO BE PROVIDED FOR ACCESS & PROGRAMMING THE ALL NETWORK. ACCESS WILL BE CAPABLE VIA ANY MODULE OR GATEWAY.



LEARNING RESOURCE CENTER

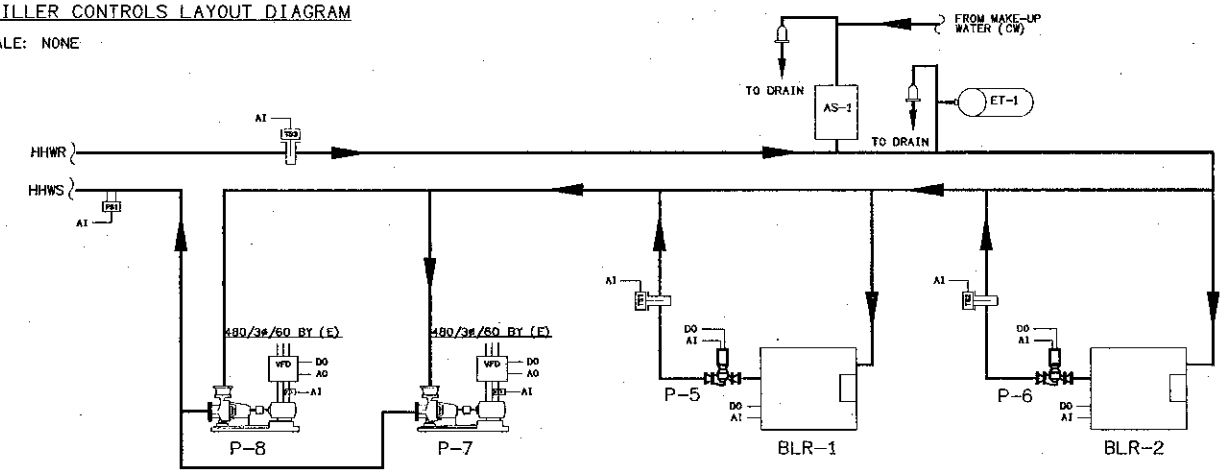


LANGATE ARCHITECTURE & CMnet HYBRID TOPOLOGY



CHILLER CONTROLS LAYOUT DIAGRAM

SCALE: NONE

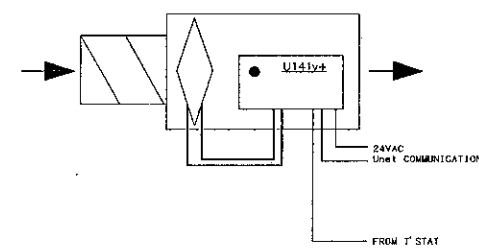


BOILER CONTROL LAYOUT DIAGRAM

SCALE: NONE

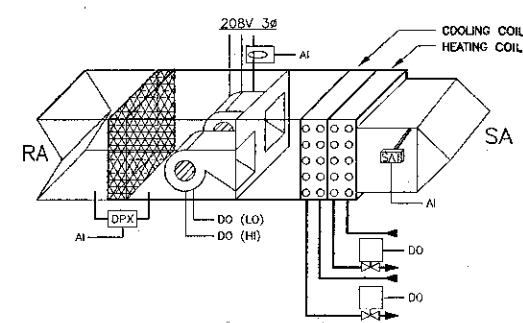
CONTROL EQUIPMENT SCHEDULE

- GW 1** GATEWAY MODULE - LGRM WITH POWER PACK. TO BE MOUNTED IN THE COMMUNICATION ROOM.
- CM 1** COMMUNICATION MODULE - UMI/59 TO BE MOUNTED IN THE COMMUNICATION ROOM NEAR THE GATEWAY MODULE IN A 12x14x4 ENCLOSURE WITH POWER TRANSFORMER, SERVICE DISCONNECT SWITCH AND A PROT485, NETWORK PROTECTION BOARD.
- CM 2** CONTROL MODULE - S6104 SINGLE UNIT CONTROLLER WITH SIX DIGITAL OUTPUTS, TEN UNIVERSAL INPUTS AND FOUR ANALOG OUTPUTS.
- CM 3** CONTROL MODULE - U141V+ VARIABLE AIR VOLUME (VAV) CONTROLLER WITH ONE DIGITAL OUTPUT, FOUR UNIVERSAL INPUTS, ONE ANALOG OUTPUT AND A INTEGRATED FLOW PORT AND INTEGRATED DAMPER ACTUATOR.
- CM 4** CONTROL MODULE - U551 CONTROLLER WITH FIVE DIGITAL OUTPUTS, FIVE UNIVERSAL INPUTS AND ONE ANALOG OUTPUT, ALSO WITH INTEGRATED LOGISTAT PORT.
- ZS 1** ZONE SENSOR - LOGISTAT PRO WITH LCD DISPLAY, (TLO) TIMED LOCAL OVERRIDE, SET POINT ADJUST AND COMMUNICATION JACK.
- ZS 2** ZONE SENSOR - LOGISTAT + WITH TLO, SET POINT ADJUST AND COMMUNICATION JACK.
- ZS 3** ZONE SENSOR - LOGISTAT WITH COMMUNICATION JACK.
- ZS 4** ZONE SENSOR - LOGISTAT FLUSH. FLUSH MOUNTED TEMP SENSOR.
- DT 1** DUCT TEMP SENSOR - 10K-2-D-XX", DUCT MOUNTED TEMPERATURE SENSOR WITH INTEGRATED HANDY BOX. USED FOR SUPPLY AND RETURN AIR TEMP.
- AT 1** AVERAGING TEMP SENSOR - 10K-2-A-XX", MIXED AIR AVERAGING TEMP SENSOR WITH INTEGRATED HANDY BOX.
- DPX 1** DIFFERENTIAL PRESSURE TRANSMITTER - 0-5VDC OUTPUT, TO BE USED ACROSS FILTER TO DETERMINE FILTER STATUS.
- CS 1** CURRENT SENSOR - 0-5VDC OR 4-20mA OUTPUT CURRENT SENSOR, TO DETERMINE MOTOR AMPERAGE AND STATUS.
- CV 1** CONTROL VALVE - 2-WAY VALVE SIZED ACCORDINGLY WITH AN ELECTRONIC ACTUATOR WITH EITHER 0-5VDC OR 4-20mA COMMAND SIGNAL.
- DM 1** DAMPER ACTUATOR - SIZE 125% OF DAMPER AREA. WITH 0-5VDC OR 4-20mA CONTROL SIGNAL.
- VAV 1** VARIABLE AIR VOLUME (VAV) BOX - WITH INTEGRATED FLOW SENSOR AND NO OTHER CONTROLS. SIZE ACCORDINGLY, PROVIDED BY CONTROLS CONTRACTOR AND INSTALLED BY MECHANICAL CONTRACTOR.
- SD 1** SMOKE DETECTOR - IONIZATION TYPE CONSISTENT WITH THE FIRE ALARM SYSTEM. SEE ELECTRICAL PLANS FOR SPECIFICATIONS. LOCATE SENSOR IN SUPPLY AIR DUCT. INTEGRATE WITH UNIT CONTROLS TO SHUT DOWN FAN WITHOUT DELAY IF SMOKE IS DETECTED. DETECTOR PROVIDED BY ELECTRICAL CONTRACTOR AND INSTALLED BY MECHANICAL CONTRACTOR AND WIRED TO SHUTDOWN FAN VIA RELAY BASE IN DETECTOR. INSTALL ON ALL HVAC SYSTEMS PER UMC SEC. 608.
- LP 1** PRESSURE SENSOR - DWYER SERIES 634A, 4-20mA SIGNAL 0-100 PSI RANGE.
- IT 1** IMMERSION SENSOR - 10K-2-1-XX" WP IMMERSION TEMP SENSOR WITH STAINLESS STEEL THERMAL WELL AND WEATHER PROOF ENCLOSURE.



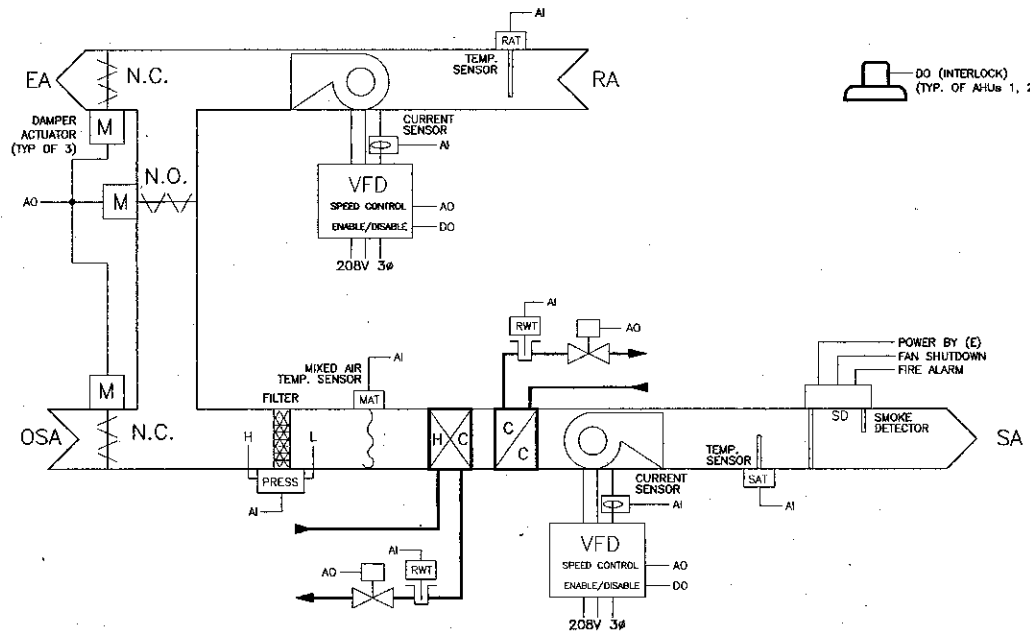
VAV CONTROL FLOW DIAGRAM (TYP OF ALL VAVs)

SCALE: NONE



FC-1 CONTROL FLOW DIAGRAM (TYP OF ALL FC-1)

SCALE: NONE



AIR HANDLER & EXHAUST FAN CONTROL LAYOUT DIAGRAM (TYP OF 4)

SCALE: NONE

NOTE:
VERIFY AND PROVIDE ALL ELECTRICAL DEVICES AND CONNECTIONS AS REQUIRED ON MECHANICAL EQUIPMENT SHOP DRAWINGS AND APPROVED SUBMITTAL.

SHEET NOTES:

1. FIELD VERIFY MECHANICAL EQUIPMENT LOCATIONS.
2. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES.
3. PROVIDE WEATHERPROOF AND EXTERIOR RATED DEVICES IN ALL EXTERIOR AREAS.
4. PROVIDE ALL DEVICES AS REQUIRED ON MECHANICAL CONTRACTOR SHOP DRAWINGS AND APPROVED SUBMITTALS.
5. NO CONDUIT/FEEDER SHALL BE PERMITTED ON THE ROOF WITH CRIPPLES, ALL FEEDERS SHALL BE RUN BENEATH THE ROOF.
6. 3/4" CONDUIT MINIMUM U.O.N.
7. UNIQUELY LABEL CABLING AT BOTH ENDS AND AT ALL PULL POINTS.
8. REFER TO DIVISION 16000 SPECIFICATIONS FOR ADDITIONAL CONTROL CONDUIT AND CABLING INSTALLATION REQUIREMENTS.

KRUGER BENSON ZIEMER ARCHITECTS, INC.
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THIERRY H. CASSAN
PROJECT DESIGNER

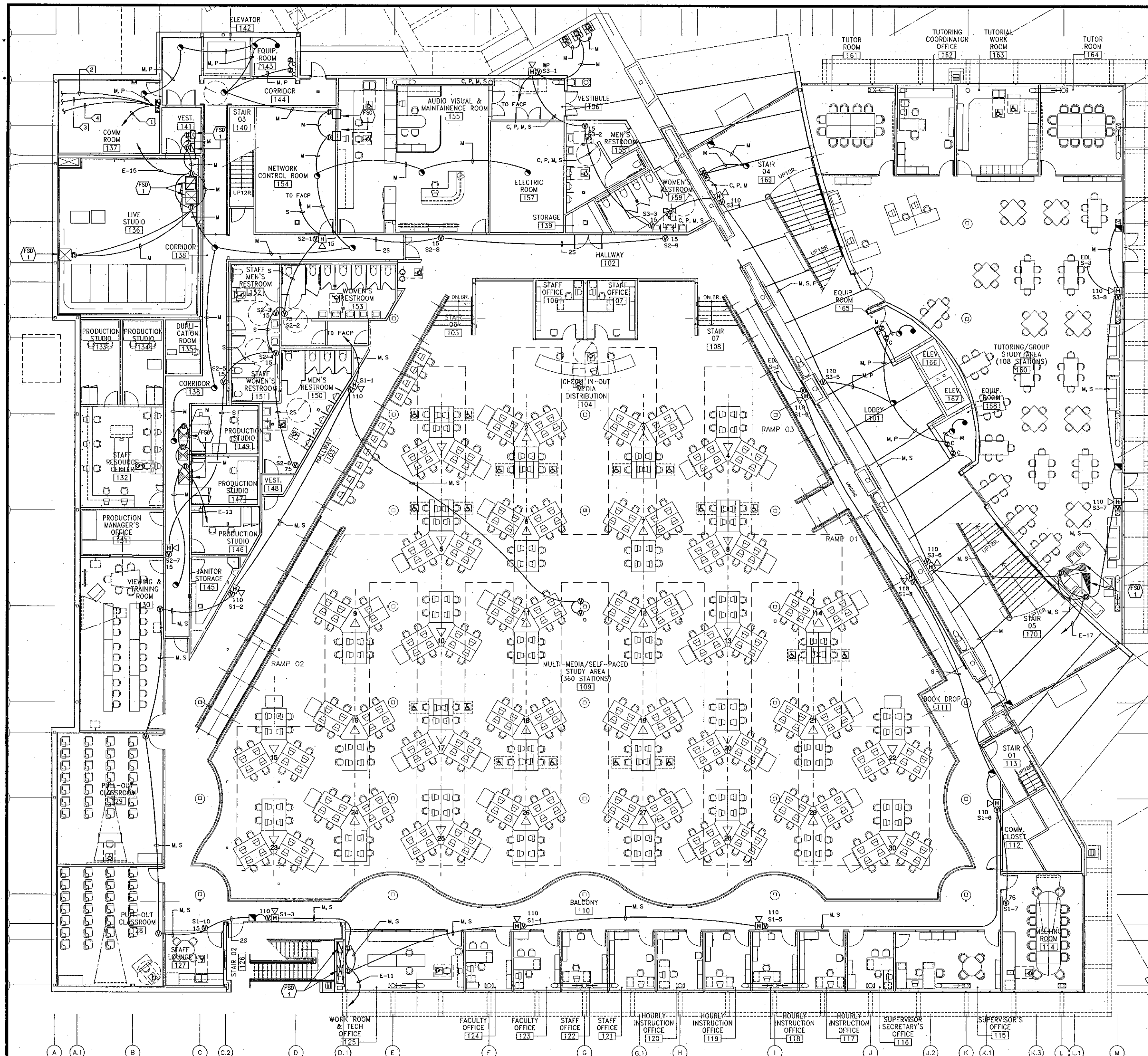
LUKIN & ASSOCIATES INC.
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Ventura County Community College District
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4667 Telegraph Road

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IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
FILE NUMBER: 56C1
APPL 03-104498
DATE: 08/24/01

NO.	DESCRIPTION	DATE	BY

DRAWN: DENISE CUNNINGHAM
CHECKED: CRAIG HOOD
DATE: 08/24/01
JOB NO.: 99245
SHEET TITLE: MECHANICAL CONTROL DIAGRAMS
SHEET: E4.7



FIRE ALARM SYSTEM SYMBOL LEGEND

FACP	FIRE ALARM CONTROL PANEL
ANN	LCD ANNUNCIATOR
●	HEAT DETECTOR
○	SMOKE DETECTOR IN VANDEL RESISTANT ENCLOSURE
□	MANUAL PULL STATION
⊙	INDIVIDUAL ADDRESSABLE MODULE RELAY
⊞	DOOR HOLDER
⊕	VISUAL ONLY IN VANDEL RESISTANT ENCLOSURE
⊖	AUDIO VISUAL W/ HORN IN VANDEL RESISTANT ENCLOSURE
⊗	FIRE WATER FLOW SWITCH
⊘	TAMPER SWITCH
⊙	DUCT DETECTOR

- SHEET NOTES:**
1. VERIFY LOCATION OF ALL DEVICES ON ARCHITECTURAL PLANS.
 2. 3/4" CONDUIT MINIMUM UNLESS OTHERWISE NOTED.
 3. CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL COMMUNICATION CABLEING PER CABLE MANUFACTURERS RECOMMENDATIONS.
 4. MAXIMUM 180 DEGREE OF BEND BETWEEN PULL POINTS.
 5. RUN COMMUNICATION CABLEING IN CABLE TRAY TO MAXIMUM EXTENT POSSIBLE. WHERE CABLEING IS NOT IN CABLE TRAY, CABLE SHALL BE IN CONDUIT.
 6. UNIQUELY LABEL BOTH ENDS OF ALL CABLEING.

- SHEET NOTES:**
- ① CONNECT TO EXISTING CAMPUS FIRE ALARM SYSTEM NETWORK.
 - ② 1" C AND FIRE ALARM CABLEING TO BUILDING "X". INTERCEPT AND CONNECT BUILDING "X" PULL STATIONS (2) AND FIRE ALARM HORN TO NEW ADDRESSABLE FIRE ALARM PANEL.
 - ③ 1" C AND FIRE ALARM CABLEING TO BUILDING "O". INTERCEPT AND CONNECT BUILDING "O" PULL STATIONS (2) AND FIRE ALARM HORN TO NEW ADDRESSABLE FIRE ALARM PANEL.
 - ④ 1" C AND FIRE ALARM CABLEING TO BUILDING "P". INTERCEPT AND CONNECT BUILDING "P" PULL STATIONS (2) AND FIRE ALARM HORN TO NEW ADDRESSABLE FIRE ALARM PANEL.

KRUGER BENSEN ZIEMER ARCHITECTS, INC.
 30 W. ARRIETTA, SANTA BARBARA, CA 93101
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STEVE DOWDY, A.I.A.
 PRINCIPAL IN CHARGE

THERRY H. CASSAN
 PROJECT DESIGNER

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ENGINEER'S STAMP **ARCHITECT'S STAMP**

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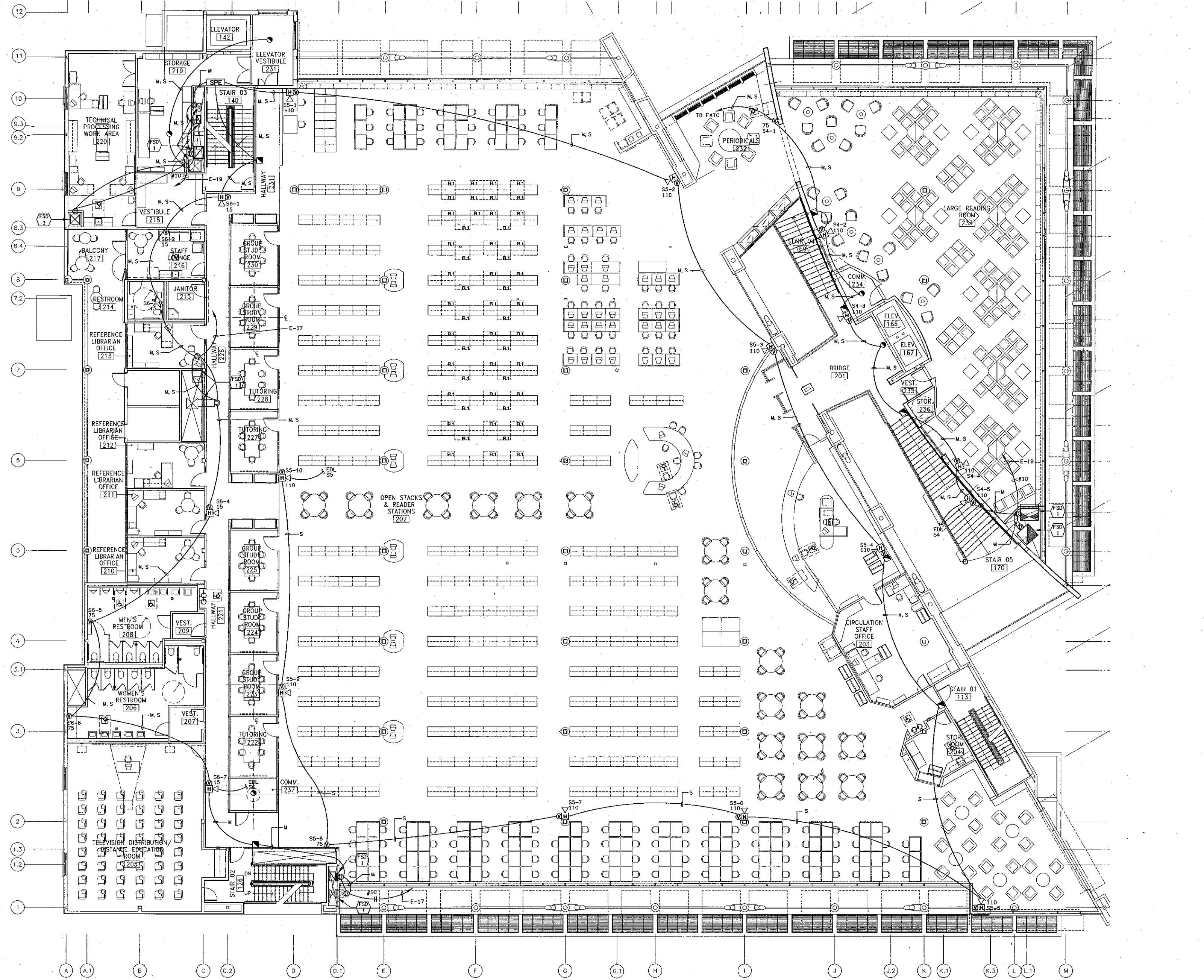
NO.	DESCRIPTION	DATE	BY

DRAWN: DENISE CUNNINGHAM
 CHECKED: CRAIG WOOD
 DATE: 09/24/01
 JOB NO.: 99245

SHEET TITLE:
**FIRST FLOOR
FIRE ALARM
PLAN**

SHEET: **E5.1**

FIRST FLOOR FIRE ALARM PLAN ①
 SCALE: 1/8" = 1'-0"



- SHEET NOTES:**
1. VERIFY LOCATION OF ALL DEVICES ON ARCHITECTURAL PLANS.
 2. 3/4" CONDUIT MINIMUM UNLESS OTHERWISE NOTED.
 3. CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL COMMUNICATION CABLING PER CABLE MANUFACTURERS RECOMMENDATIONS.
 4. MAXIMUM 180 DEGREE OF BEND BETWEEN PULL POINTS.
 5. RUN COMMUNICATION CABLING IN CABLE TRAY TO MAXIMUM EXTENT POSSIBLE. WHERE CABLING IS NOT IN CABLE TRAY, CABLE SHALL BE IN CONDUIT.
 6. UNIQUELY LABEL BOTH ENDS OF ALL CABLING.

FIRE ALARM SYSTEM SYMBOL LEGEND

FACP	FIRE ALARM CONTROL PANEL
ANN	LCD ANNUNCIATOR
HT	HEAT DETECTOR
SD	SMOKE DETECTOR IN VANDEL RESISTANT ENCLOSURE
MPS	MANUAL PULL STATION
IR	INDIVIDUAL ADDRESSABLE MODULE RELAY
DH	DOOR HOLDER
V	VISUAL ONLY IN VANDEL RESISTANT ENCLOSURE
AV	AUDIO VISUAL W/ HORN IN VANDEL RESISTANT ENCLOSURE

SECOND FLOOR FIRE ALARM PLAN
SCALE 1/8" = 1'-0" 1

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CHECKED: CRAIG HOOD
DATE: 09/24/01
JOB NO. 99245
SHEET TITLE: **SECOND FLOOR FIRE ALARM PLAN**
SHEET: **E5.2**

FIRE ALARM LEGEND

SYMBOL	QTY.	DESCRIPTION	MODEL #	C.S.F.M. #	BACK BOX REQUIREMENTS
EXOS	1	FIRE ALARM CONTROL PANEL	4010-9101	7165-0026; 226	SUPPLIED BY SIMPLEX
N/A	2	SYSTEM BATTERIES 33ah	2081-9271	7165-0026; 226	MOUNT IN EXTERNAL BATTERY CABINET
N/A	1	EXTERNAL BATTERY CABINET	2081-9270	7165-0026; 226	SUPPLIED BY SIMPLEX
LANN	2	LCD ANNUNCIATOR	4606-9101	7120-0026; 225	SUPPLIED BY SIMPLEX
35	35	SMOKE DETECTOR W/ TAMPER GUARD	4098-9714 / 4098-9789	7272-0026; 218 / 7300-0026; 217	4" OCT. BOX
21	21	SOUNDER SMOKE DETECTOR W/ TAMPER GUARD	4098-9713	7272-0026; 230	4" OCT. BOX
31	31	HEAT DETECTOR W/ TAMPER GUARD	4098-9733 / 4098-9789	7270-0026; 216 / 7300-0026; 217	4" OCT. BOX
7	7	110cd AUDIO VISUAL W/ HORN W/ TAMPER GUARD	4903-9424	7125-0026; 202	4" SQ. BOX, 1.5" DEEP
5	5	SURFACE HORN W/ TAMPER GUARD	4901-9821	7135-0795; 118	4" SQ. BOX, 2 1/8" DEEP
7	7	30cd VISUAL ONLY W/ TAMPER GUARD	4904-9301	7125-0026; 198	SINGLE GANG BOX, 2.5" DEEP
6	6	MANUAL PULL STATION W/ TAMPER GUARD	4099-9002	7150-0026; 224	SINGLE GANG BOX, 2.5" DEEP
24	24	INDIVIDUAL ADDRESSABLE MODULE RELAY	4098-9002	7300-0026; 223	4" SQ. x 2 1/8" DEEP BOX
5	5	DOOR HOLDER	2088-95B7	3550-0026; 212	SINGLE GANG BOX, MIN. 2" DEEP

BATTERY CALCULATIONS FAC & ASSOCIATED DEVICES

STANDBY				ALARM			
PRODUCT MODEL #	QTY.	UNIT	TOTAL	QTY.	UNIT	TOTAL	
4010-9101	1	0.305	0.305	2	0.405	0.405	
2081-9271	2	---	---	2	---	---	
4606-9101	2	0.110	0.220	2	0.140	0.280	
4098-9789	35	---	---	66	---	---	
4098-9714	66	---	---	35	---	---	
4098-9733	31	---	---	31	---	---	
4098-9713	21	---	---	21	---	---	
4903-9424	7	---	---	7	0.236	1.652	
4901-9821	5	---	---	5	0.040	0.200	
4904-9301	7	---	---	7	0.125	0.875	
4099-9002	6	---	---	6	---	---	
4098-9002	24	---	---	24	---	---	
2088-95B7	5	0.110	0.550	5	---	---	
SUBTOTAL 1.075				SUBTOTAL 3.412			
X 4 HRS = 4.300 AH				X(0.498) 30MIN 1.699			
STANDBY 4.300 AH				ALARM 1.899 AH			
TOTAL 6.199 AH				BATTERY CAPACITY PROVIDED 33.000 AH			
SPARE CAPACITY 27.801 AH							

(---) = DOES NOT DRAW CURRENT FROM BATTERIES OR CURRENT DRAW INCLUDED IN MAIN PANEL CARDS.

VOLTAGE DROP CALCULATIONS

CIR. V1				CIR. H1			
TOTAL CURRENT	TOTAL DISTANCE	12 AWG	% of Vdrop	TOTAL CURRENT	TOTAL DISTANCE	14 AWG	% of Vdrop
1.085	309	Total Vdrop calc = 0.880	2.42%	0.312	1031	Total Vdrop calc = 1.048	4.37%
DEV. #	CURRENT DRAW	DIST. FROM PREVIOUS	Voltage Drop between each device on this circuit.	DEV. #	CURRENT DRAW	DIST. FROM PREVIOUS	Voltage Drop between each device on this circuit.
1	0.220	41	0.139	1	0.016	42	0.067
2	0.125	46	0.124	2	0.016	75	0.113
3	0.125	34	0.078	3	0.016	105	0.149
4	0.125	26	0.049	4	0.016	87	0.117
5	0.125	83	0.124	5	0.016	106	0.134
6	0.125	28	0.031	6	0.016	80	0.035
7	0.220	51	0.038	7	0.040	220	0.241
CIR. V2				CIR. V3			
0.880	258	Total Vdrop calc = 0.462	1.92%	0.470	283	Total Vdrop calc = 0.298	1.24%
DEV. #	CURRENT DRAW	DIST. FROM PREVIOUS	Voltage Drop between each device on this circuit.	DEV. #	CURRENT DRAW	DIST. FROM PREVIOUS	Voltage Drop between each device on this circuit.
1	0.220	41	0.115	1	0.125	74	0.111
2	0.220	87	0.183	2	0.220	150	0.165
3	0.220	105	0.147	3	0.125	59	0.023

REQUIRED NOTES

THE FIRE ALARM SYSTEM SHALL CONFORM TO ARTICLE 760 OF THE CALIFORNIA ELECTRICAL CODE.

INSTALLATION OF THE FIRE ALARM SYSTEM SHALL NOT BE STARTED UNTIL DETAILED PLANS AND SPECIFICATIONS, INCLUDING CALIFORNIA STATE FIRE MARSHAL LISTING NUMBERS FOR EACH COMPONENT OF THE SYSTEM HAVE BEEN APPROVED BY THE CALIFORNIA DEPT. OF THE STATE ARCHITECT'S FIRE MARSHAL.

UPON COMPLETION OF THE INSTALLATION OF THE FIRE ALARM SYSTEM A SATISFACTORY TEST OF THE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE FIRE MARSHAL, OWNER AND ENGINEER OF RECORD.

A MINIMUM OF 48 HOURS NOTICE SHALL BE REQUIRED FOR ANY INSPECTION AND/OR TESTING.

ALL DEVICES OF THE FIRE ALARM SYSTEM SHALL BE APPROVED AND LISTED BY THE CALIFORNIA STATE FIRE MARSHAL.

A STAMPED SET OF APPROVED FIRE ALARM PLANS SHALL BE ON THE JOB SITE AND USED FOR INSTALLATION. ANY DEVIATION FROM APPROVED PLANS, INCLUDING THE SUBSTITUTION OF DEVICES SHALL BE APPROVED BY THE FIRE MARSHAL.

ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE CODE, OR RECOGNIZED STANDARDS SHALL BE BROUGHT TO THE ATTENTION OF THE INSPECTOR OF RECORD.

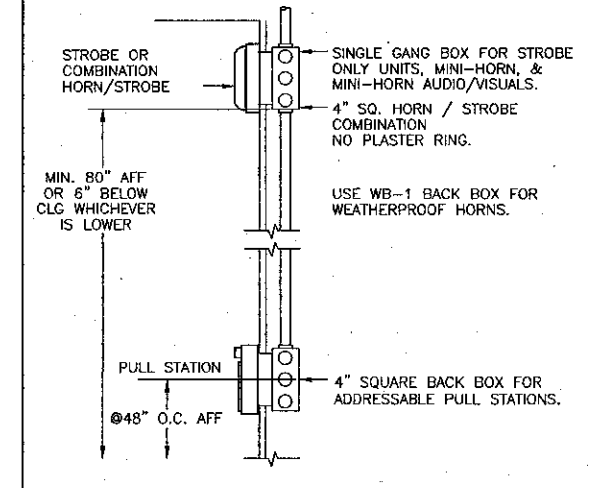
A CERTIFICATE OF COMPLIANCE SHALL BE PREPARED BY THE INSTALLER AND GIVEN TO THE FIRE MARSHAL UPON COMPLETION OF THE INSTALLATION.

4010 PANEL BATTERY CALC WORKSHEET

PID	DESCRIPTION	STANDBY CURRENT	STANDBY USAGE	ALARM CURRENT*	ALARM USAGE*
4010-9xxx	BASE SYSTEM	0.195	---	---	---
4010-9xxx	W/ 50 DEVICES	0.230	---	---	---
4010-9xxx	W/ 100 DEVICES	0.265	0.265	---	---
4010-9xxx	W/ 150 DEVICES	0.300	---	---	---
4010-9xxx	W/ 200 DEVICES	0.335	---	---	---
4010-9xxx	W/ 250 DEVICES	0.370	---	---	---
4010-9806	CLASS A	0.050	---	---	---
4010-9809	CITY CONNECT	0.012	---	---	---
4010-9810	COMMON EVENT REPORTING DACT	0.040	---	---	---
4010-9811	DUAL RS232	0.075	---	---	---
4010-9812	RS232/MODEM	0.100	---	---	---
4010-9816	POINT REPORTING DACT	0.040	0.040	---	---
4010-98xx	4120 NETWORK	0.150	---	---	---
4506-9101	LCD ANNUN.	0.065	---	---	---
4903-9219	HORN/STROBE, 15/75cd, RED, HORIZ	---	---	0.133	---
SUB TOTALS					
4010 FACP	4010 STANDBY CURRENT	0.305			
AUX	ADDITIONAL AUXILIARY STANDBY CURRENT	---			
4010 FACP	4010 ALARM CURRENT (standby + 100mA)	---		0.405	
NAC's	NAC ALARM CURRENT	---		---	
AUX	ADDITIONAL AUXILIARY ALARM CURRENT	---		---	
TOTAL STANDBY CURRENT		0.305			
TOTAL ALARM CURRENT		---		0.405	

* ALARM CURRENT = THE 4010 STANDBY CURRENT + 100mA

MOUNTING HEIGHT DETAIL



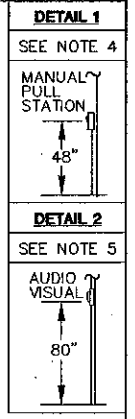
FIRE ALARM SYSTEM MATRIX

SUPERVISORY SIGNALS		ALARM SIGNALS					ACTION TAKEN
VALVE TAMPER SWITCH	EARTH GROUND FAULT	FIRE ALARM A.C. POWER OUT	WATERFLOW SWITCH	HEAT DETECTOR	SMOKE DETECTOR	MANUAL PULL STATIONS	
•	•	•	•	•	•	•	TRANSMITS ALARM / TROUBLE TO FIRE ALARM CONTROL PANEL
•	•	•	•	•	•	•	TRANSMITS ALARM / TROUBLE TO CENTRAL STATION
•	•	•	•	•	•	•	SOUNDS GENERAL ALARM THROUGHOUT THE BUILDING
•	•	•	•	•	•	•	ACTIVATES SPRINKLER BELL
•	•	•	•	•	•	•	RELEASES DOOR HOLDERS

* REQUIRES A MONITORING AGREEMENT NOT PART OF THE SCOPE OF THIS PROJECT.

PROJECT NOTES

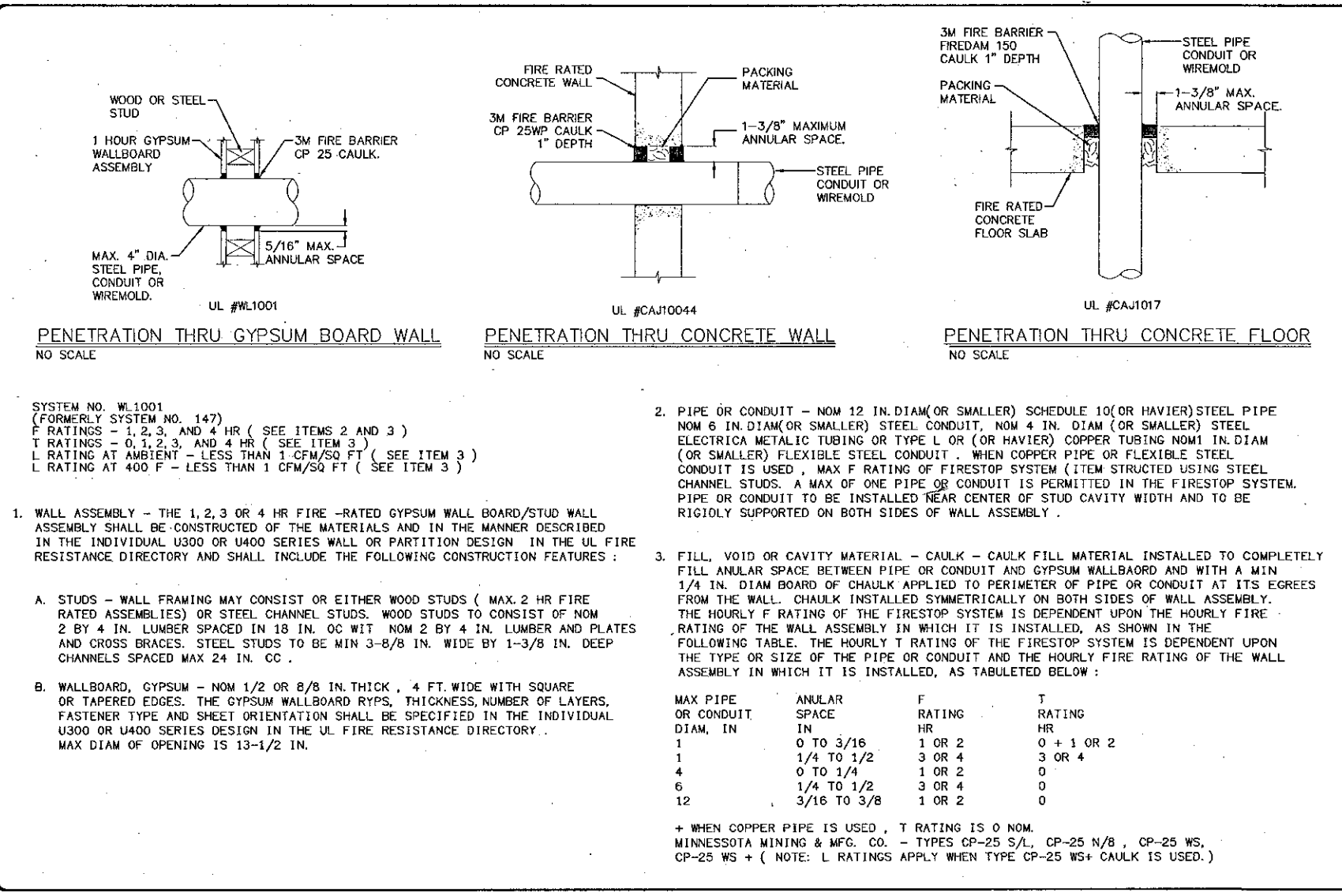
GENERAL NOTES	
1. ALL WIRE SHALL BE IN CONDUIT.	
2. ANY CHANGES IN THE WIRING SHALL BE VERIFIED BY SIMPLEX	
3. MANUAL PULL STATIONS TO BE MOUNTED AT 48 IN. ABOVE FLOOR SURFACE TO THE CENTER OF THE STATION. (DETAIL 1)	
4. MOUNT AUDIO VISUAL 80 IN. ABOVE FINISHED FLOOR TO THE BOTTOM OF THE LIGHT OR 6" FROM SLOW CEILING WHICH EVER IS LOWEST. (DETAIL 2)	
5. MAINTAIN WIRING COLOR CODES.	
6. ALL WIRING TO BE AS CALLED FOR IN N.E.C. ARTICLE 760.	
7. IDENTIFY THE FIRE ALARM CIRCUIT AT THE ELECTRICAL PANEL IN RED. PROVIDE A BREAKER LOCKON DEVICE.	
8. DEVICE TYPES AND LOCATIONS ARE SHOWN AS CALLED FOR ON THE BID DOCUMENTS.	
PROJECT DATA	
APPLICABLE CODES:	A. 1995 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R.; (1994 UNIFORM BUILDING CODE VOLUMES 1-3 AND 1995 CALIFORNIA AMENDMENTS)
	B. 1995 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R.; (1995 NATIONAL ELECTRIC CODE AND 1995 CALIFORNIA AMENDMENTS)
	C. 1995 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 C.C.R.; (1994 UNIFORM MECHANICAL CODE AND 1995 CALIFORNIA AMENDMENTS)
	D. 1995 CALIFORNIA PLUMBING CODE (CPC), PARTS, TITLE 24 C.C.R.; (1994 UNIFORM PLUMBING CODE AND 1995 AMENDMENTS)
	E. 1995 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 C.C.R.; (1994 UNIFORM FIRE CODE AND 1995 CALIFORNIA AMENDMENTS)
	F. 1995 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 C.C.R.
	G. TITLE 19, CDD, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS
	H. NFPA 72-1993 EDITION
	I. CAL/OSHA CONSTRUCTION SAFETY ORDERS
BUILDING CLASSIFICATION:	
A.	OCCUPANCY GROUP: I2
B.	CONSTRUCTION TYPE: V-1 HOUR NON SPRINKLERED
AGENCIES:	
A.	COUNTY OF VENTURA FIRE DEPARTMENT



WIRE CHART

SYMBOL	CIRCUIT USE	DESCRIPTION	BSCC# INDOOR	O.D.	COLOR	BSCC# OUTDOOR	O.D.
M	NET COMMUNICATION LINE	1 TSP #18	S1802S17	0.234	BLACK/RED	S1602S33	.300
P	24 VDC POWER	2#14 AWG/THHN	N/A	N/A	BLACK/RED	S1402S33	.340
H	HORN CIRCUIT	2#14 AWG/THHN	N/A	N/A	BLACK/RED	S1402S33	.340
V	STROBE CIRCUIT	2#12 AWG/THHN	N/A	N/A	BLACK/RED	S1202S33	.380
A	ANNUNCIATOR CIRCUIT	1 TSP #18 + 2#14	S1802S17+2#14 THHN	0.234	BLACK/RED	S1602S33	.300
D	DOOR HOLDER CIRCUIT	2#14 AWG/THHN	2#14 THHN	N/A	BLACK/RED	S1402S33	.340

TSP = TWISTED SHIELDED PAIR



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VENTURA COLLEGE LEARNING RESOURCES CENTER

Ventura County Community College District
Ventura, CA 93003
4667 Telegraph Road

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ARCHITECT'S STAMP

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DATE: JAN 28 2003

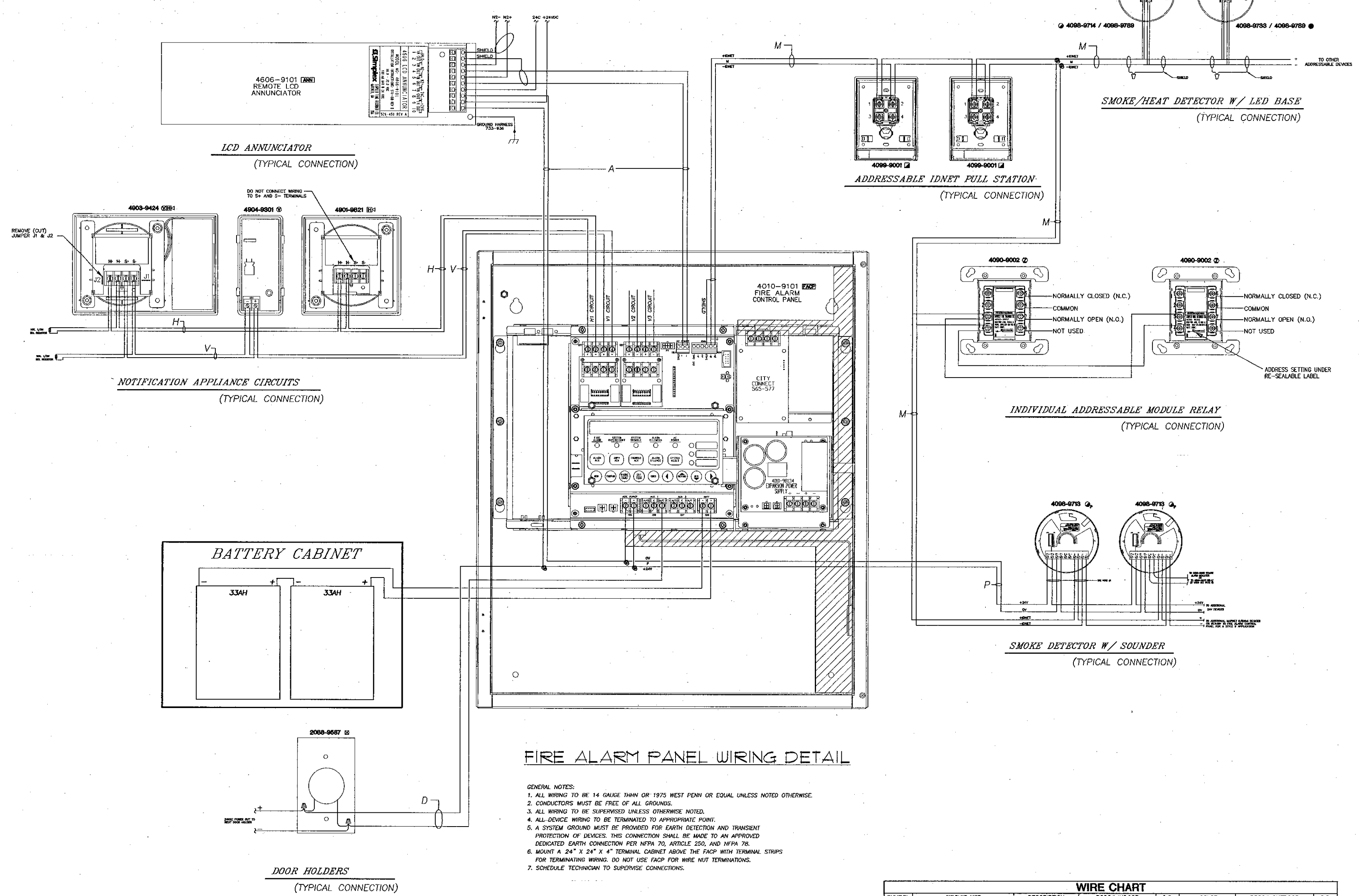
NO.	DESCRIPTION	DATE	BY

REVISION

DESIGN: DENISE CUNNINGHAM
CHECKED: CRAIG HOOD
DATE: 09/24/01
JOB NO.: 99245

SHEET TITLE
FIRE ALARM DETAILS

SHEET
E5.4



FIRE ALARM PANEL WIRING DETAIL

- GENERAL NOTES:**
1. ALL WIRING TO BE 14 GAUGE THHN OR 1975 WEST PENN OR EQUAL UNLESS NOTED OTHERWISE.
 2. CONDUCTORS MUST BE FREE OF ALL GROUNDS.
 3. ALL WIRING TO BE SUPERVISED UNLESS OTHERWISE NOTED.
 4. ALL DEVICE WIRING TO BE TERMINATED TO APPROPRIATE POINT.
 5. A SYSTEM GROUND MUST BE PROVIDED FOR EARTH DETECTION AND TRANSIENT PROTECTION OF DEVICES. THIS CONNECTION SHALL BE MADE TO AN APPROVED DEDICATED EARTH CONNECTION PER NFPA 70, ARTICLE 250, AND NFPA 78.
 6. MOUNT A 24" X 24" X 4" TERMINAL CABINET ABOVE THE FACP WITH TERMINAL STRIPS FOR TERMINATING WIRING. DO NOT USE FACP FOR WIRE NUT TERMINATIONS.
 7. SCHEDULE TECHNICIAN TO SUPERVISE CONNECTIONS.

WIRE CHART

SYMBOL	CIRCUIT USE	DESCRIPTION	BSCC# INDOOR	O.D.	COLOR	BSCC# OUTDOOR	O.D.
M	IDNET COMMUNICATION LINE	1 TSP #18	S1802S17	0.234	BLACK/RED	S1602S33	.300
P	24 VDC POWER	2#14 AWG/THHN	S1402S33	N/A	BLACK/RED	S1402S33	.340
H	HORN CIRCUIT	2#14 AWG/THHN	S1402S33	N/A	BLACK/RED	S1402S33	.340
V	STROBE CIRCUIT	2#12 AWG/THHN	S1202S33	N/A	BLACK/RED	S1202S33	.380
A	ANNUNCIATOR CIRCUIT	1 TSP #18 + 2#14	S1802S17+2#14 THHN	0.234	BLACK/RED	S1602S33	.300
D	DOOR HOLDER CIRCUIT	2#14 AWG/THHN	S1402S33	N/A	BLACK/RED	S1402S33	.340

ISP = TWISTED SHIELDED PAIR

KBZ

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STEVE DOWTY, A.I.A.
PRINCIPAL IN CHARGE

THERRY H. CASSAN
PROJECT DESIGNER

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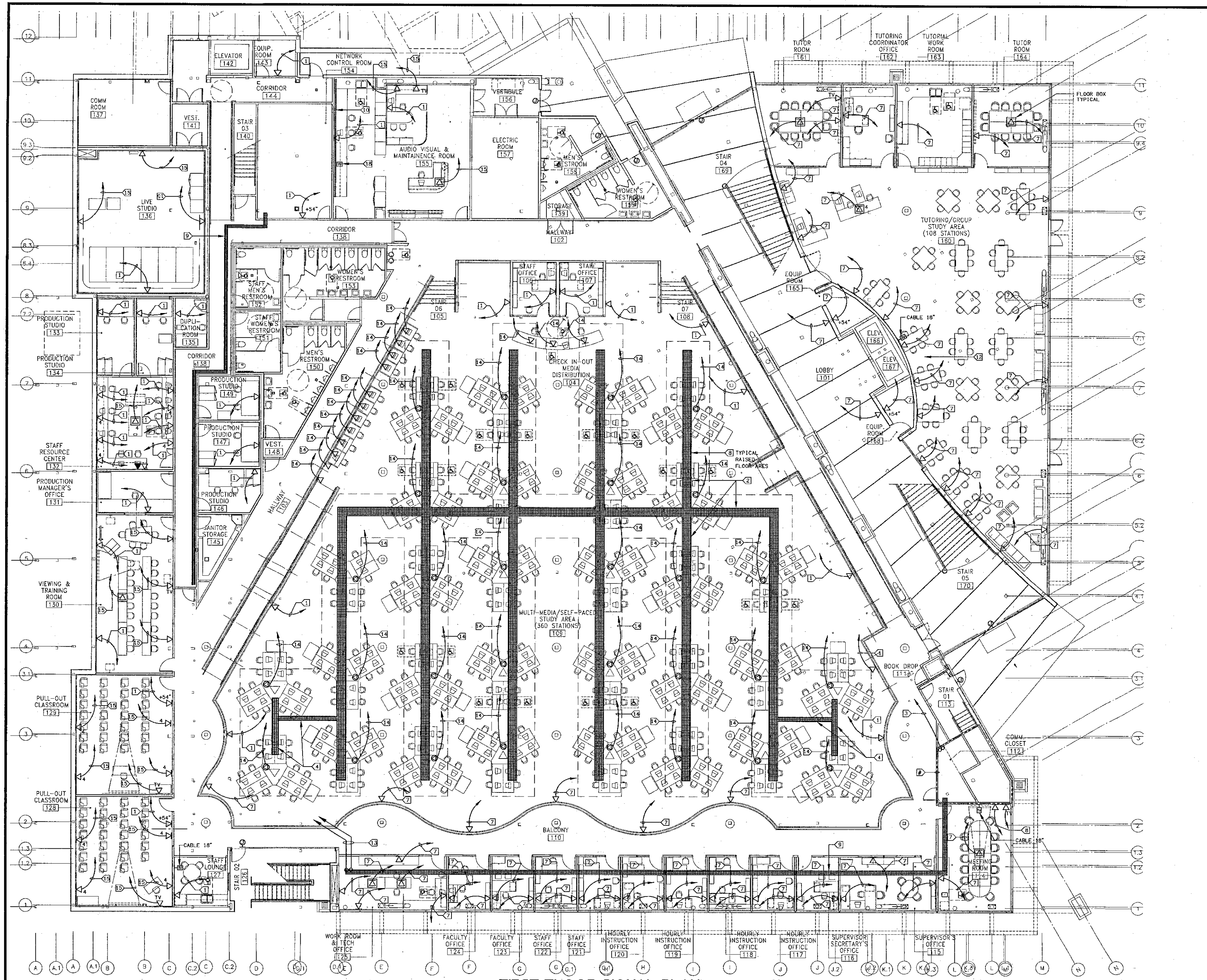
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DATE: 09/24/01

NO.	DESCRIPTION	DATE	BY

Drawn: DENISE CUNNINGHAM
Checked: CRAIG HOOD
Date: 09/24/01
JOB NO.: 99245

SHEET TITLE
**FIRE ALARM
DETAILS**

SHEET
E5.5



FIRST FLOOR SIGNAL PLAN
SCALE 1/8" = 1'-0" 1

SHEET NOTES:

1. VERIFY LOCATION OF ALL DEVICES ON ARCHITECTURAL PLANS.
2. 1" CONDUIT MINIMUM UNLESS OTHERWISE NOTED.
3. CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL COMMUNICATION CABLING PER CABLE MANUFACTURERS RECOMMENDATIONS.
4. MAXIMUM 180 DEGREE OF BEND BETWEEN PULL POINTS.
5. RUN COMMUNICATION CABLING IN CABLE TRAY TO MAXIMUM EXTENT POSSIBLE. WHERE CABLING IS NOT IN CABLE TRAY, CABLE SHALL BE IN CONDUIT.
6. UNIQUELY LABEL BOTH ENDS OF ALL CABLING.
7. CONTRACTOR SHALL PROVIDE GREENLEE #435 CONDUIT MEASURING TAPE AN ALL COMMUNICATION CONDUITS.

KEY NOTES:

- 1 1"-(2) 4 PAIR CAT5 & 1 MULTIMODE FIBER CABLE HOMERUN TO NETWORK CONTROL ROOM.
- 2 12"x4"D CABLE TRAY (TYPICAL).
- 3 (2) 4"C TO COMMUNICATION ROOM 137.
- 4 4"x2"D CABLE TRAY (TYPICAL).
- 5 (2) 4" CONDUIT ONLY HOMERUN TO NETWORK CONTROL ROOM.
- 6 (2) 4" CONDUIT ONLY HOMERUN TO COMMUNICATION CLOSET #112.
- 7 1" C AND COMMUNICATION CABLE HOMERUN TO COMMUNICATION CLOSET #112.
- 8 WIRE BASKET CABLE TRAY ON FLOOR PEDESTALS.
- 9 12"x2"D CABLE TRAY (TYPICAL).
- 10 WIREMOLD TYPE 5400 SURFACE MOUNT RACEWAY.
- 11 NOT USED.
- 12 NOT USED.
- 13 (2) 4"C TO 2ND FLOOR COMMUNICATION ROOM 237.
- 14 COMMUNICATION CABLE HOMERUN TO COMMUNICATION ROOM 154 VIA CABLE TRAY/DUCT BANK UNLESS OTHERWISE NOTED.
- 15 HOMERUN TO COMMUNICATION ROOM 137.
- 16 NOT USED.
- 17 NOT USED.
- 18 CABLE LOCATED ABOVE 29" H COUNTER.

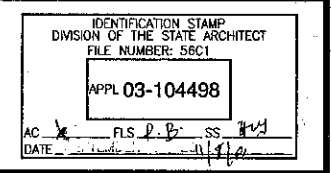
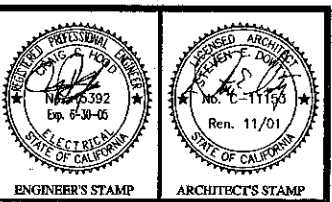


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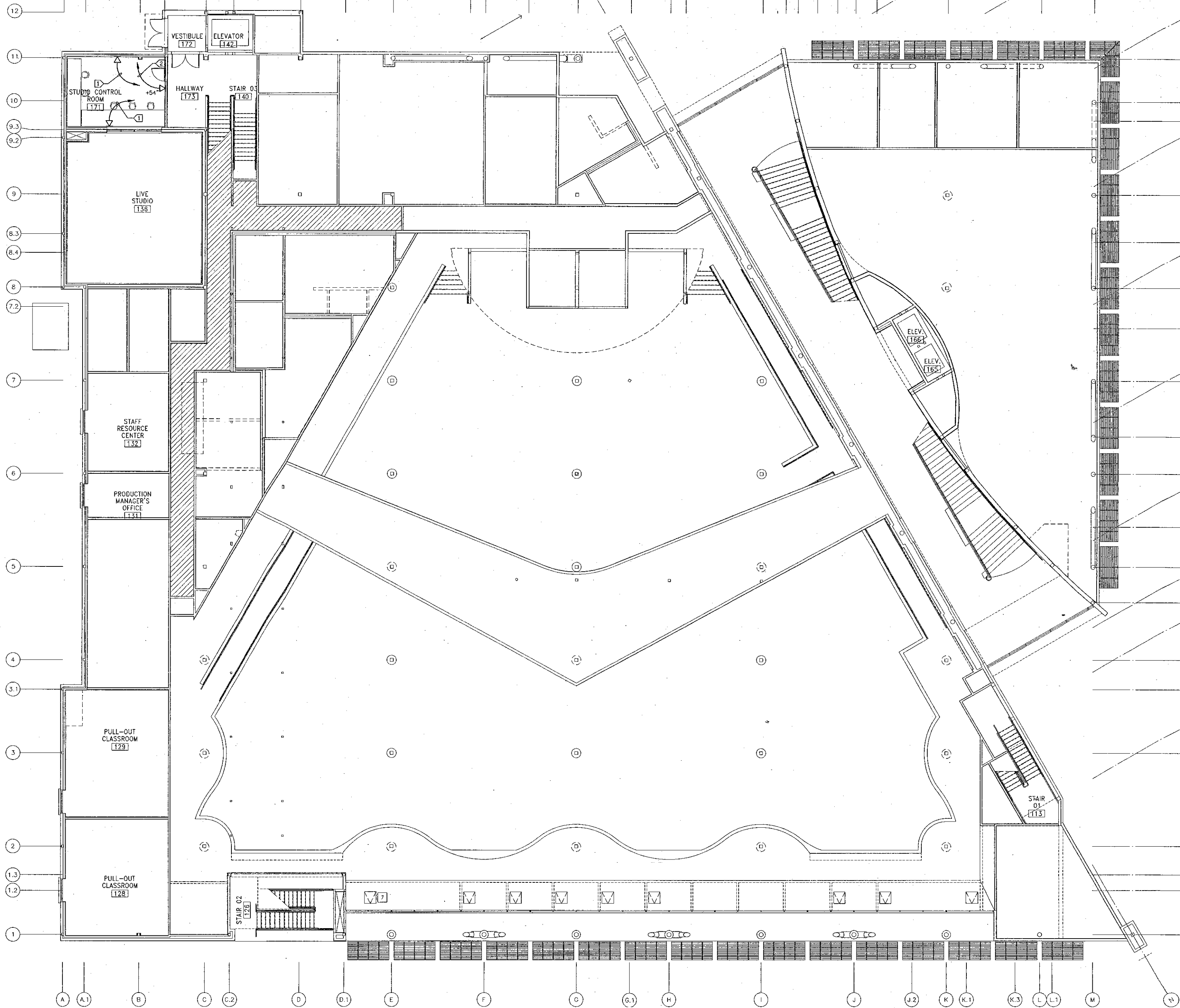
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DRAWN	DENSE CUNNINGHAM
CHECKED	CRAIG HOOD
DATE	08/24/01
JOB NO.	99245
SHEET TITLE	FIRST FLOOR SIGNAL PLAN

SHEET **E6.1**



MEZZANINE FLOOR SIGNAL PLAN
SCALE 1/8" = 1'-0" ①

SHEET NOTES:

1. VERIFY LOCATION OF ALL DEVICES ON ARCHITECTURAL PLANS.
2. 1" CONDUIT MINIMUM UNLESS OTHERWISE NOTED.
3. CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL COMMUNICATION CABLING PER CABLE MANUFACTURERS RECOMMENDATIONS.
4. MAXIMUM 180 DEGREE OF BEND BETWEEN PULL POINTS.
5. RUN COMMUNICATION CABLING IN CABLE TRAY TO MAXIMUM EXTENT POSSIBLE. WHERE CABLING IS NOT IN CABLE TRAY, CABLE SHALL BE IN CONDUIT.
6. UNIQUELY LABEL BOTH ENDS OF ALL CABLING.
7. CONTRACTOR SHALL PROVIDE GREENLEE #435 CONDUIT MEASURING TAPE IN ALL COMMUNICATION CONDUITS.

KEY NOTES:

- ① 1" CONDUIT AND COMMUNICATION CABLING HOMERUN TO COMMUNICATION ROOM #137.
- ② 3/4" CONDUIT AND COMMUNICATION CABLING HOMERUN TO COMMUNICATION ROOM #137.



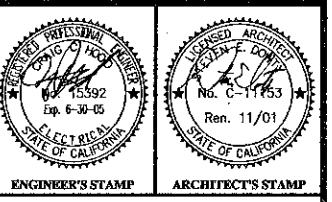
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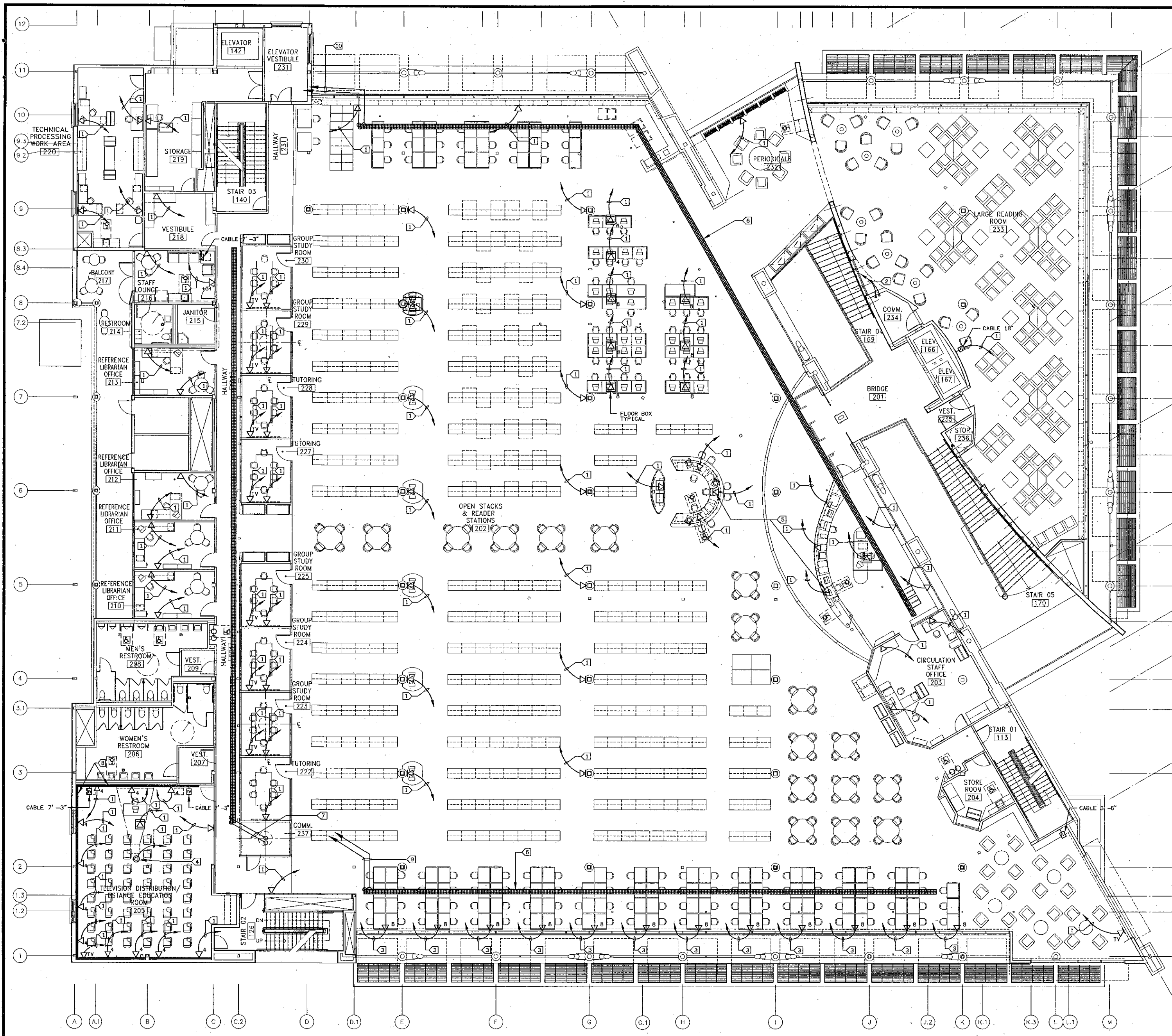
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APPL 03-104498
AC X FLS V.P. SS HJK
DATE 09/24/01

NO.	DESCRIPTION	DATE	BY

DRAWN DENISE CUNNINGHAM
CHECKED CRAIG HOOD
DATE 09/24/01
JOB NO. 99245

SHEET TITLE
MEZZANINE FLOOR SIGNAL PLAN

SHEET
E6.1.1



- SHEET NOTES:**
1. VERIFY LOCATION OF ALL DEVICES ON ARCHITECTURAL PLANS.
 2. 1" CONDUIT MINIMUM UNLESS OTHERWISE NOTED.
 3. CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL COMMUNICATION CABLING PER CABLE MANUFACTURERS RECOMMENDATIONS.
 4. MAXIMUM 180 DEGREE OF BEND BETWEEN PULL POINTS.
 5. RUN COMMUNICATION CABLING IN CABLE TRAY TO MAXIMUM EXTENT POSSIBLE. WHERE CABLING IS NOT IN CABLE TRAY, CABLE SHALL BE IN CONDUIT.
 6. UNIQUELY LABEL BOTH ENDS OF ALL CABLING.
 7. CONTRACTOR SHALL PROVIDE GREENLEE #435 CONDUIT MEASURING TAPE IN ALL COMMUNICATION CONDUITS.

- SHEET NOTES:**
- ① 1" COMMUNICATION CABLE HOMERUN TO CABLETRAY.
 - ② (2) 4" CONDUIT ONLY TO NETWORK CONTROL ROOM. -RUN TO 1ST. FLOOR CEILING CABLE TRAY.
 - ③ 1-1/4" (TYPICAL) ALL OUTLETS THIS WALL -RUN TO 1ST. FLOOR CEILING CABLE TRAY.
 - ④ CEILING MOUNT DATA OUTLET PROVIDE 25 DEEP BOX WITH 1" CONDUIT TO CABLE TRAY.
 - ⑤ PROVIDE RACEWAY AND STATION-WIRE MANAGEMENT IN CASEWORK (TYPICAL).
 - ⑥ 12" x 2" CABLE TRAY (FOR 3RD FLOOR CABLE RUNS).
 - ⑦ (2) 4" SLEEVES FROM COMMUNICATION ROOM TO CABLE TRAY.
 - ⑧ WIREMOLD 5400 SERIES.
 - ⑨ (2) 4" SLEEVES FROM TO 3RD FLOOR COMMUNICATION ROOM 327.
 - ⑩ (2) 4" SLEEVES TO 3RD FLOOR COMMUNICATION ROOM 334.

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THIERRY H. CASSAN
 PROJECT DESIGNER

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 APR 03-104498
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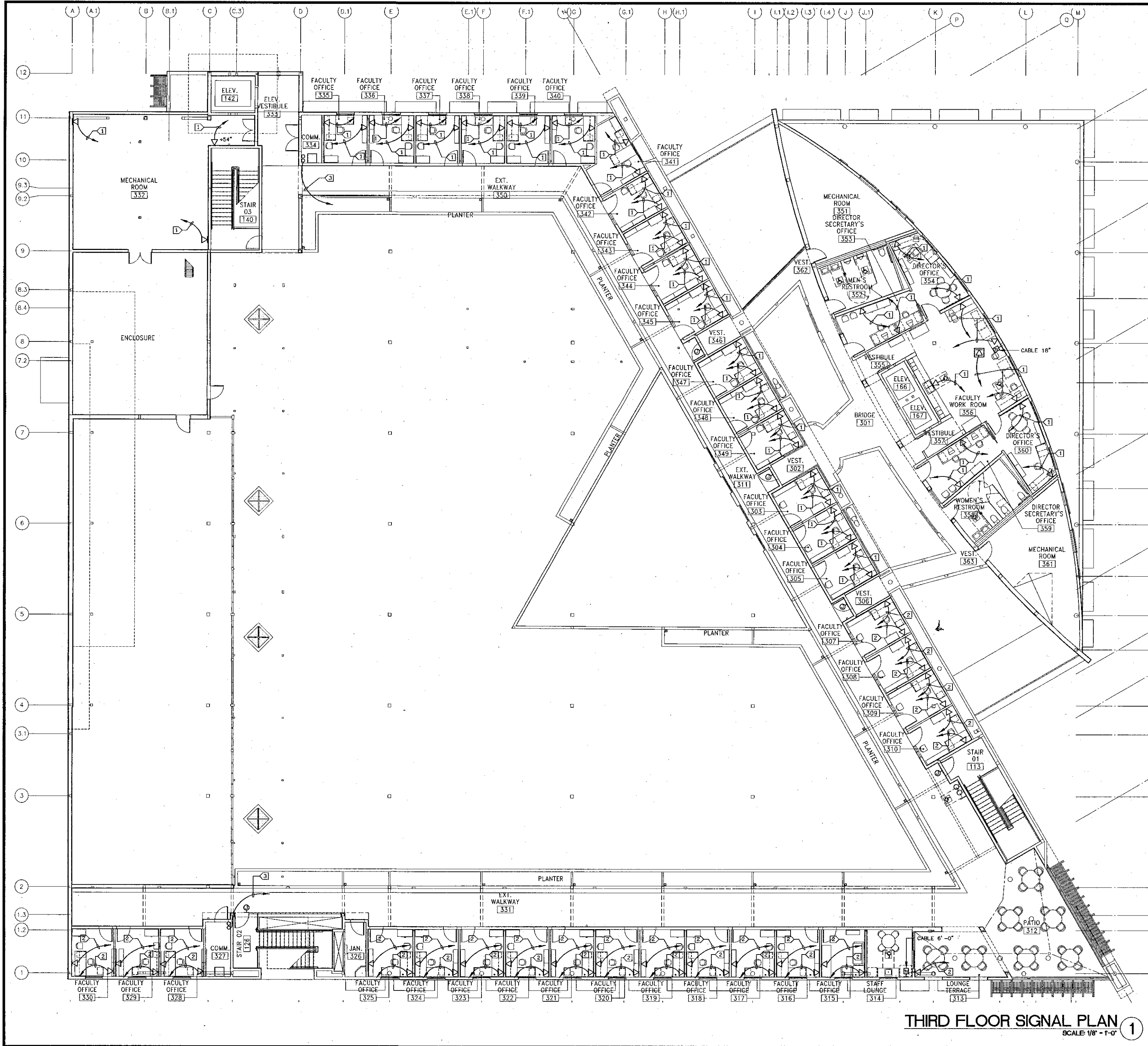
NO.	DESCRIPTION	DATE	BY

DRAWN: DENISE CUNNINGHAM
 CHECKED: CRAIG HOOD
 DATE: 09/24/01
 JOB NO.: 99245

SECOND FLOOR SIGNAL PLAN

SHEET: **E6.2**

SECOND FLOOR SIGNAL PLAN ①
 SCALE 1/8" = 1'-0"



THIRD FLOOR SIGNAL PLAN
SCALE 1/8" = 1'-0" 1

SHEET NOTES:

1. VERIFY LOCATION OF ALL DEVICES ON ARCHITECTURAL PLANS.
2. 1" CONDUIT MINIMUM UNLESS OTHERWISE NOTED.
3. CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL COMMUNICATION CABLING PER CABLE MANUFACTURERS RECOMMENDATIONS.
4. MAXIMUM 180 DEGREE OF BEND BETWEEN PULL POINTS.
5. RUN COMMUNICATION CABLING IN CABLE TRAY TO MAXIMUM EXTENT POSSIBLE. WHERE CABLING IS NOT IN CABLE TRAY, CABLE SHALL BE IN CONDUIT.
6. UNIQUELY LABEL BOTH ENDS OF ALL CABLING.
7. CONTRACTOR SHALL PROVIDE GREENLEE #435 CONDUIT MEASURING TAPE IN ALL COMMUNICATION CONDUITS.

KEY NOTES:

- 1 1" C. AND COMMUNICATION CABLE HOMERUN TO COMMUNICATION CLOSET ROOM #334.
- 2 1" C. AND COMMUNICATION CABLE HOMERUN TO COMMUNICATION CLOSET ROOM #327.
- 3 (2) 4" SLEEVES FROM TO 2ND FLOOR CABLE TRAY.



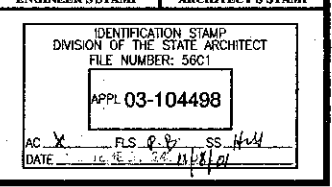
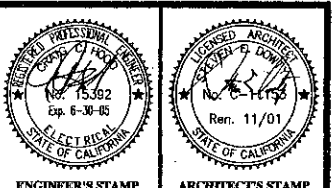
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805/963.1728

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PRINCIPAL IN CHARGE

THIERRY H. CASSAN
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CARMELITE, CA 93904
(806) 389-8550 FAX (806) 389-6510

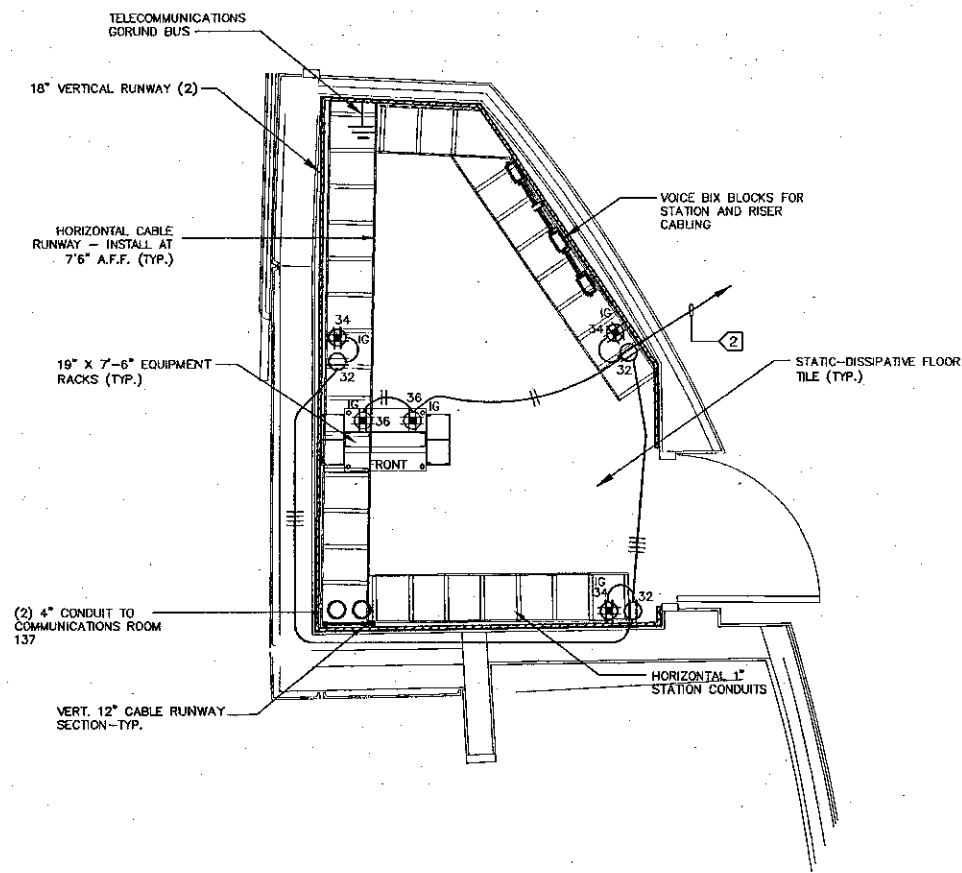
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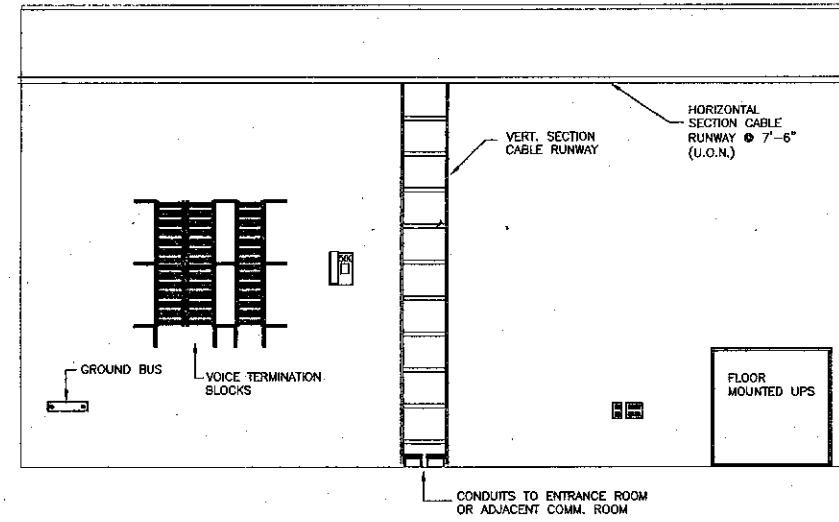
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AC X PLS. E.V. SS. NEW
DATE: 10-22-2001

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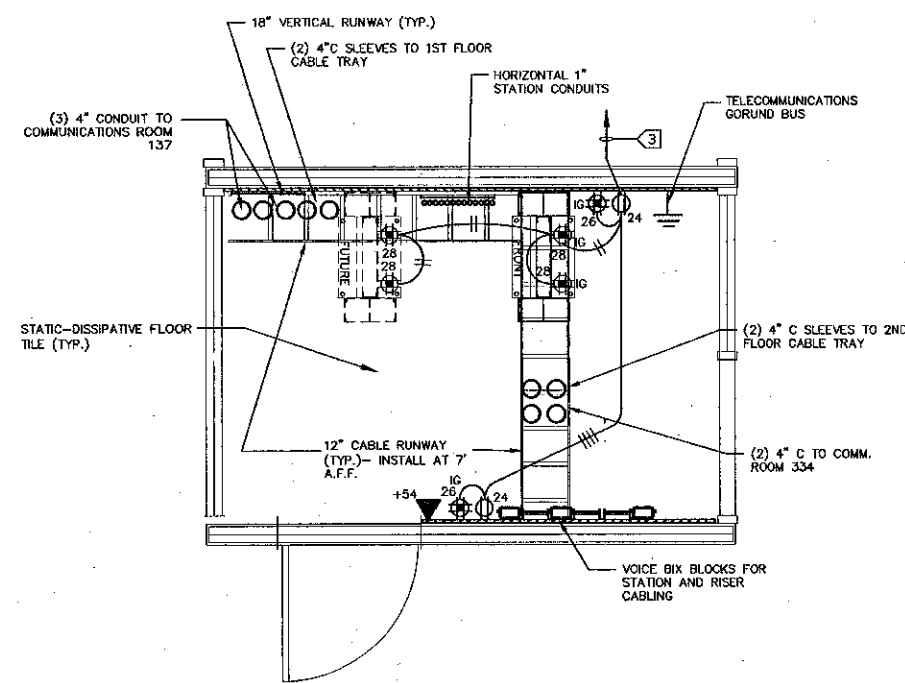
DRAWN DENISE CUNNINGHAM
CHECKED CRAIG HOOD
DATE 09/24/01
JOB NO. 99245
SHEET TITLE
THIRD FLOOR SIGNAL PLAN
SHEET
E6.3



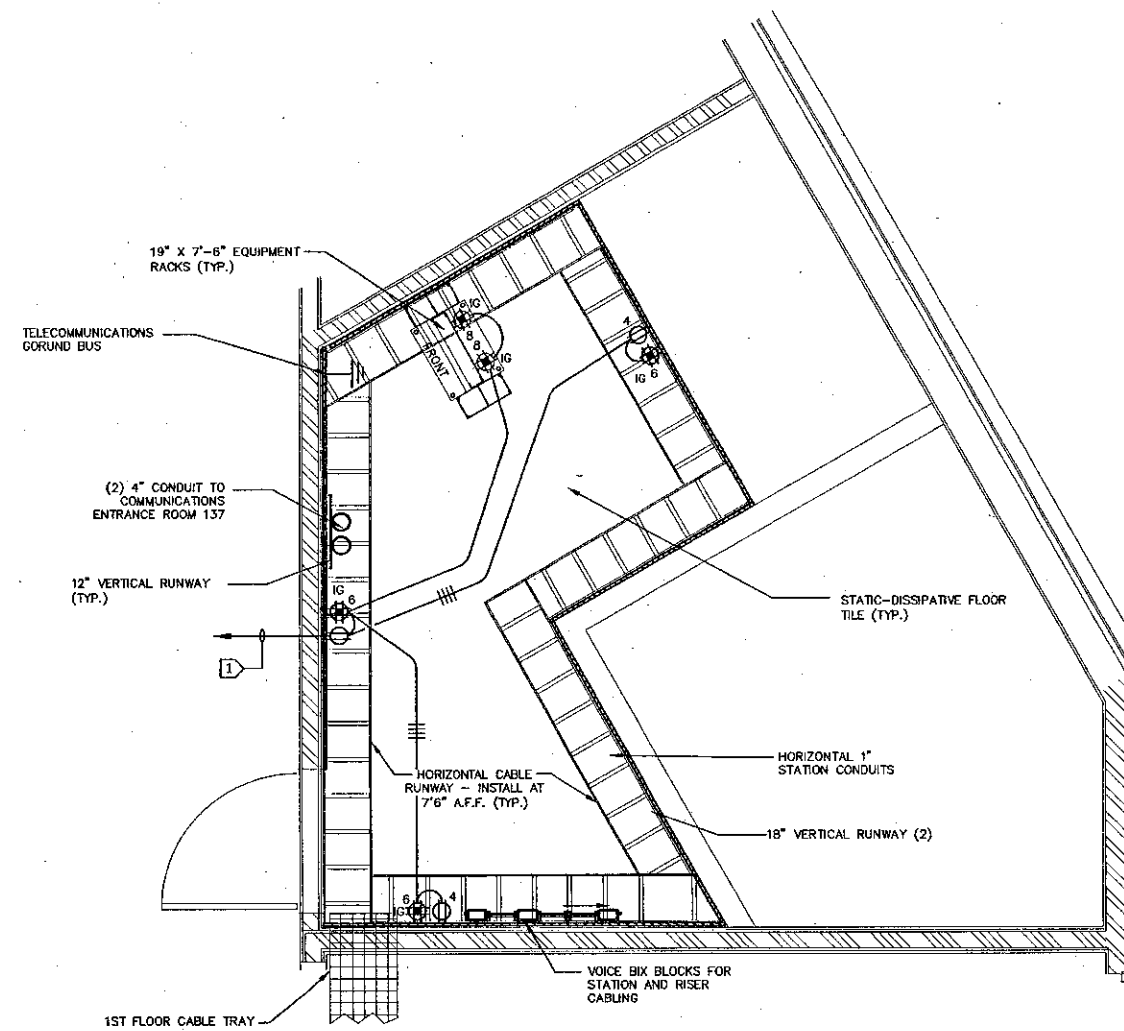
COMM. ROOM LAYOUT (RM. 234) SCALE 1/2" = 1'-0" ①



VOICE DISTRIBUTION WALL DETAIL (TYPICAL) SCALE 1/2" = 1'-0" ③



COMM. ROOM LAYOUT (RM. 237) SCALE 1/2" = 1'-0" ②



COMM. ROOM LAYOUT (RM. 112) SCALE 1/2" = 1'-0" ④

SHEET NOTES:

1. VERIFY LOCATION OF ALL DEVICES ON ARCHITECTURAL PLANS.
2. 3/4" CONDUIT MINIMUM UNLESS OTHERWISE NOTED.
3. CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL COMMUNICATION CABLE PER CABLE MANUFACTURERS RECOMMENDATIONS.
4. MAXIMUM 180 DEGREE OF BEND BETWEEN PULL POINTS.
5. RUN COMMUNICATION CABLE IN CABLE TRAY TO MAXIMUM EXTENT POSSIBLE. WHERE CABLE IS NOT IN CABLE TRAY, CABLE SHALL BE IN CONDUIT.
6. UNIQUELY LABEL BOTH ENDS OF ALL CABLING.
7. PROVIDE STATIC DISSIPATIVE TILE, BONDED TO GROUND BUS
8. PROVIDE ACCESS CONTROL AS DEFINED BY COLLEGE SECURITY FOR COMMUNICATIONS ROOMS.
9. ALL WALLS SHALL BE SHEETED WITH 3/4" AC GRADE, FIRE TREATED PLYWOOD, TO A HEIGHT OF 9-FEET STARTING 1-FOOT A.F.F. ALL PLYWOOD SHALL BE PAINTED WITH FIRE RETARDANT PAINT CONSISTENT WITH THE ROOM COLOR.
10. PROVIDE EACH EQUIPMENT RACK WITH TWO (2) QUAD OUTLETS CONTAINING (2) DEDICATED 20-AMP, SINGLE PHASE, 110-VOLT CIRCUITS FED FROM THE LOCAL UPS POWER SUPPLY. COORDINATE INSTALLATION OF THE RACK MOUNTED OUTLETS WITH THE LOW VOLTAGE CABLING VENDOR.
11. PROVIDE CONDUITS THROUGH CEILING AND FLOOR, FOR CABLE ACCESS TO ADJACENT COMM. ROOMS AND STATION LOCATIONS. FURNISH ALL SLEEVES AND CONDUITS WITH CHASE NIPPLES FITTED WITH PLASTIC END BUSHINGS.
12. PROVIDE AN ISOLATED TELECOMMUNICATIONS GROUNDING BUSBAR (MIN. 12" X 4" X 1/4"), BONDED TO THE SERVICE EQUIPMENT (POWER) GROUND AND TO THE METAL BUILDING FRAME, WITH A MIN. 6 AWG. STRANDED WIRE (GREEN INSULATION).
13. PROVIDE AND INSTALL NEW HORIZONTAL CABLING RUNWAY AND VERTICAL RUNWAY AS SHOWN ON THE DRAWINGS. INCLUDE ALL APPROPRIATE MOUNTING HARDWARE AS NEEDED.
14. PROVIDE AND INSTALL NEW 19" DATA EQUIPMENT RACKS, SERVER CABINETS AND VERTICAL WIRE MANAGEMENT AS SHOWN.
15. PROVIDE AND INSTALL ALL NEW RACK AND WALL MOUNTED VOICE/DATA TERMINATION HARDWARE AND ASSOCIATED WIRE MANAGEMENT.
16. CONTRACTOR SHALL PROVIDE GREENLEE #435 CONDUIT MEASURING TAPE IN ALL COMMUNICATION CONDUITS.

KEY NOTES:

- ① PP1-4-6-8; 3/4" C-6#10 & 1#10 GROUND & 2#10 ISO GROUNDS.
- ② PPS-32-34-36; 3/4" C-6#10 & 1#10 GROUND & 2#10 ISO GROUNDS.
- ③ PPS-24-26-28; 3/4" C-6#10 & 1#10 GROUND & 2#10 ISO GROUNDS.



KRUGER BENSEN ZIEMER ARCHITECTS, INC. AIA
30 W. ARBELLAGA SANTA BARBARA, CA 93101
805/963.1725

STEVE DOWTY, A.I.A.
PRINCIPAL IN CHARGE

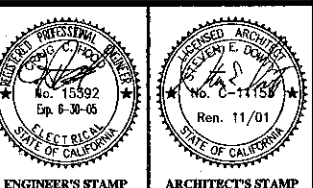
THIERRY H. CASSAN
PROJECT DESIGNER

All notes, design requirements and specifications are subject to the drawings and shall be read in conjunction with the specifications and general conditions of contract. It is the responsibility of the contractor to verify all dimensions and conditions of the site and to coordinate with the architect and other trades. No field changes or substitutions shall be made without the written permission of Kruger-Bensen-Ziemer.

LILOU & ASSOCIATES INC.
CONSULTING ELECTRICAL ENGINEERS
3851 CENTER BALDWIN BLVD
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Ventura County Community College District
Ventura, CA 93003
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FILE NUMBER: 5621
APPL 03-104498
AC V. P.S. P.E. SS. H.H.
DATE 11/01

NO.	DESCRIPTION	DATE	BY

DRAWN DENISE CUNNINGHAM
CHECKED CRAIG HOOD
DATE 09/24/01
JOB NO. 99245
SHEET TITLE
**COMMUNICATIONS
ROOMS AND
EQUIPMENT DETAIL
PLAN**

SHEET
E6.5



KRUGER BENSEN ZIEMER
ARCHITECTS, INC. AIA
30 W. ARELLANO SANTA BARBARA, CA
805/983.1728 93101

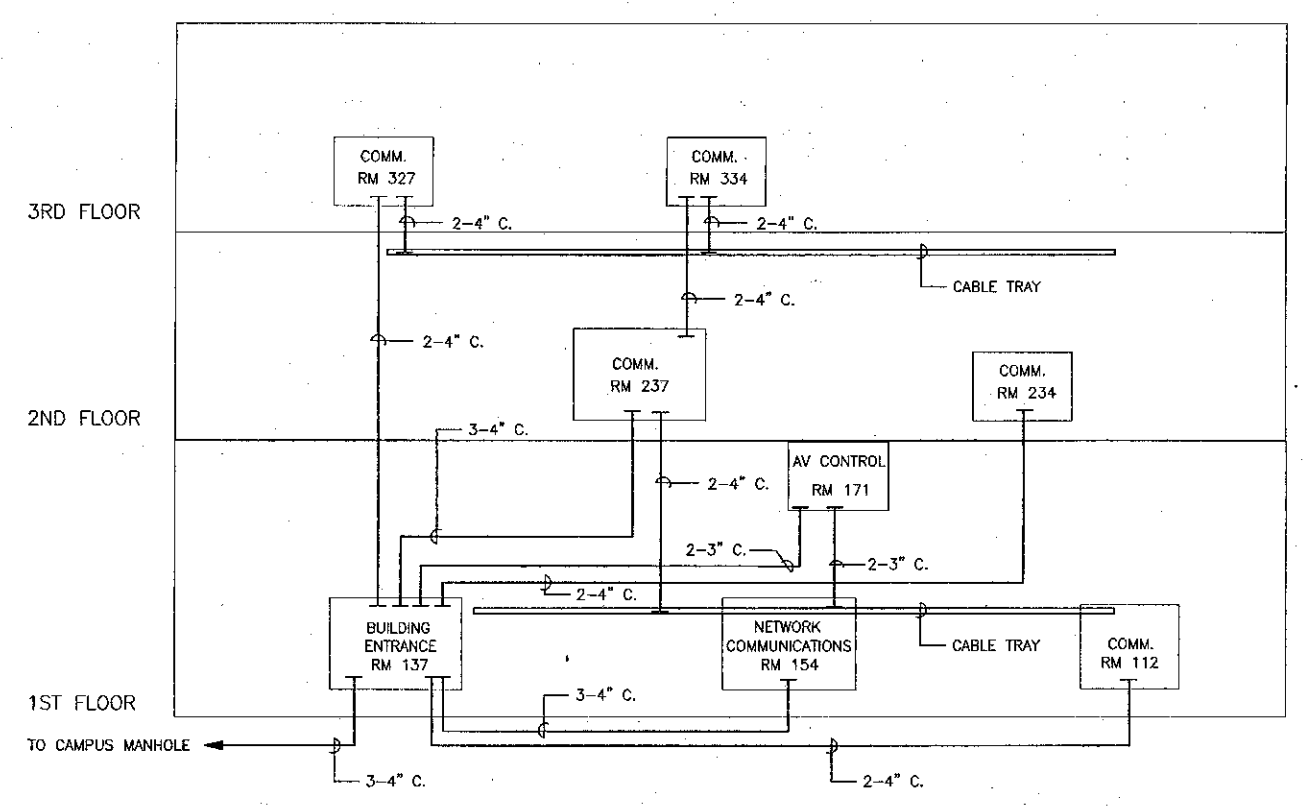
STEVE DOWTY, A.I.A.
PRINCIPAL IN CHARGE

THIERRY H. CASSAN
PROJECT DESIGNER

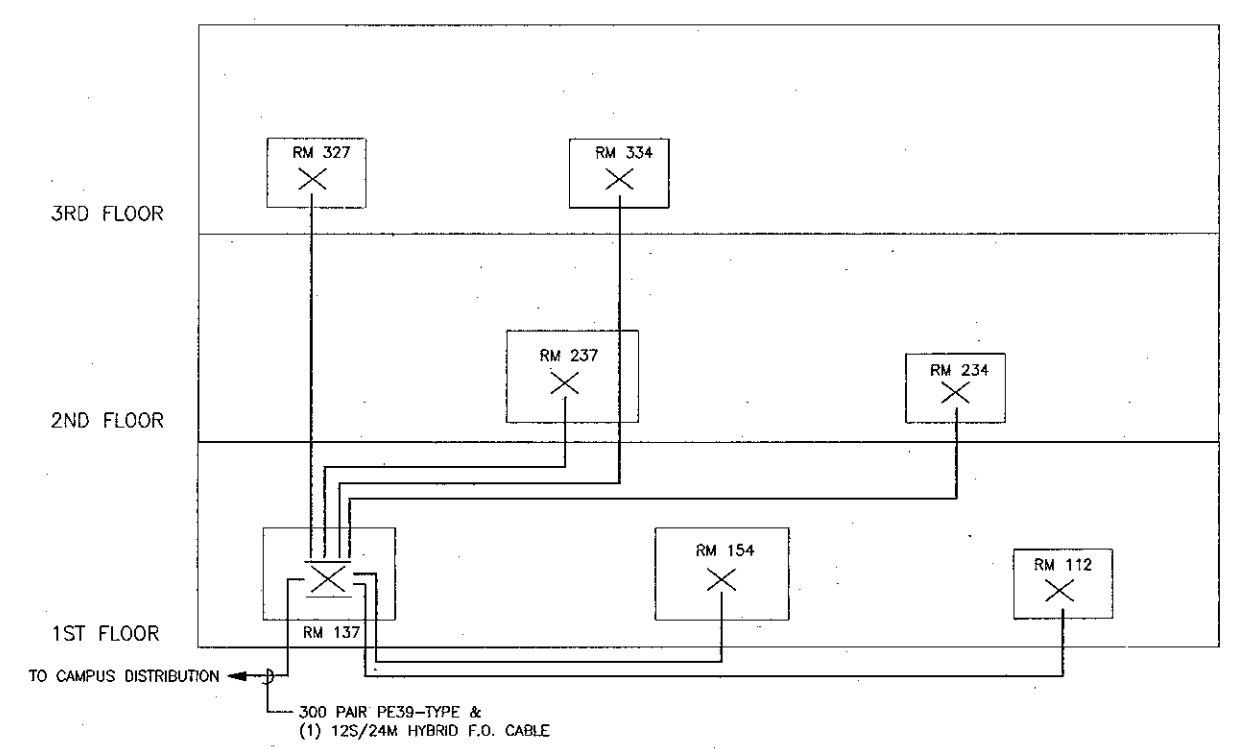
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LUNA & ASSOCIATES INC.
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3551 CURTIS MALPAS, #6th
CARMELITA, CA 93905-8034
(805) 889-6520 FAX (805) 889-8519

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CONDUIT RISER SCHEMATIC ①
NOT TO SCALE



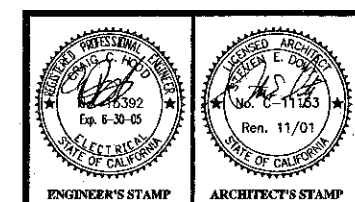
COPPER/FIBER RISER CABLING SCHEMATIC ②
NOT TO SCALE

NOTES & SYMBOLS

- (1) COMBINATION (HYBRID) 6-STRAND SINGLE-MODE (S) & 12 STRAND MULTI-MODE (M) RISER RATED CABLE - PLUS (1) 100 PAIR RISER ARMM-TYPE CABLE - AND (3) 4-PAIR DATA CABLES - TYPICAL CONFIGURATION TO EACH COMM EQUIPMENT ROOM
- ⊗ MAIN BUILDING TERMINATION POINT FOR ALL INCOMING CABLES.
- ⊗ VOICE AND DATA TERMINATION POINTS. REFER TO COMMUNICATIONS ROOM PLANS ADDITIONAL DETAILS.

COMMUNICATIONS RISER PLAN
SCALE: NTS

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Ventura County Community College District
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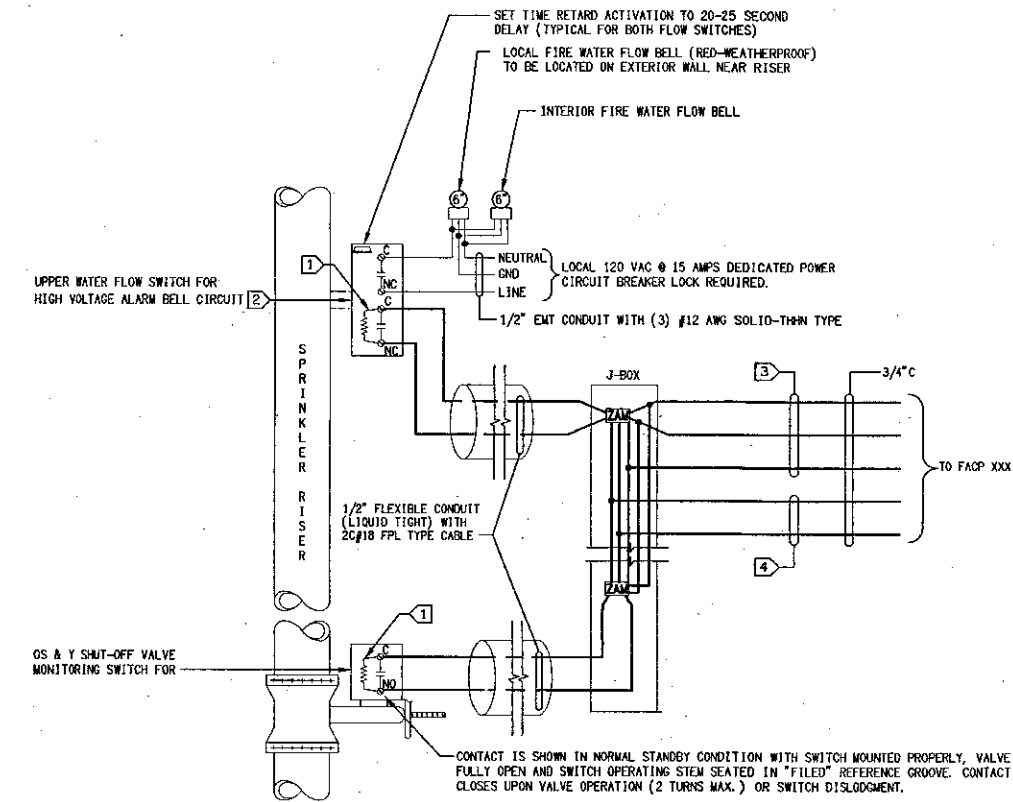
DRAWN: DENISE CUNNINGHAM
 CHECKED: CRAIG HOOD
 DATE: 09/24/01
 JOB NO.: 99245
 SHEET TITLE:
**COMMUNICATIONS
RISER
DETAIL
PLAN**
 SHEET:
E6.6

DETAIL NOTES:

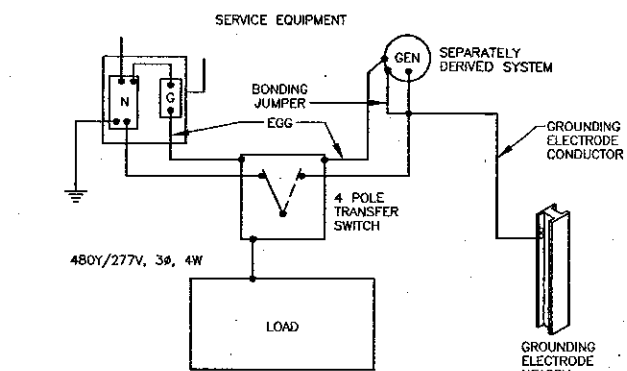
1. VERIFY AND PROVIDE CABLING AND CONNECTIONS PER FIRE ALARM VENDORS REQUIREMENTS.

DETAIL KEY NOTES:

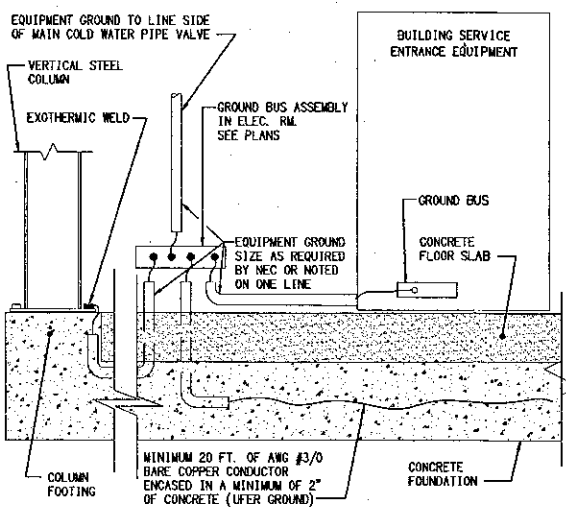
- 1 INSTALL END OF LINE RESISTOR (3.3K OHMS 1 WATT).
- 2 CONTACTS ARE SHOWN IN NORMAL STANDBY CONDITION WITH SWITCH MOUNTED PROPERLY AND RISER WET. CONTACTS CLOSE UPON WATER FLOW.
- 3 5/16" #18 AWG FPL TYPE CABLE.
- 4 20#14 AWG. FPL TYPE CABLE.



SPRINKLER RISER WITH OSY VALVE WIRING DIAGRAM SCALE: NONE 6



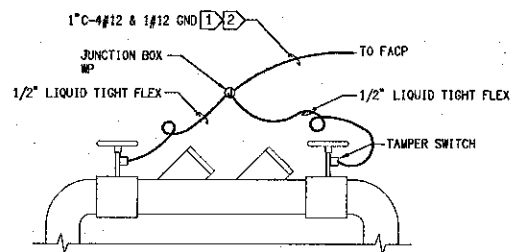
GROUNDING SEPARATELY DERIVED SYSTEM SCALE: NONE 2



BUILDING SERVICE EQUIPMENT GROUNDING SCALE: NONE 8

DETAIL KEY NOTES:

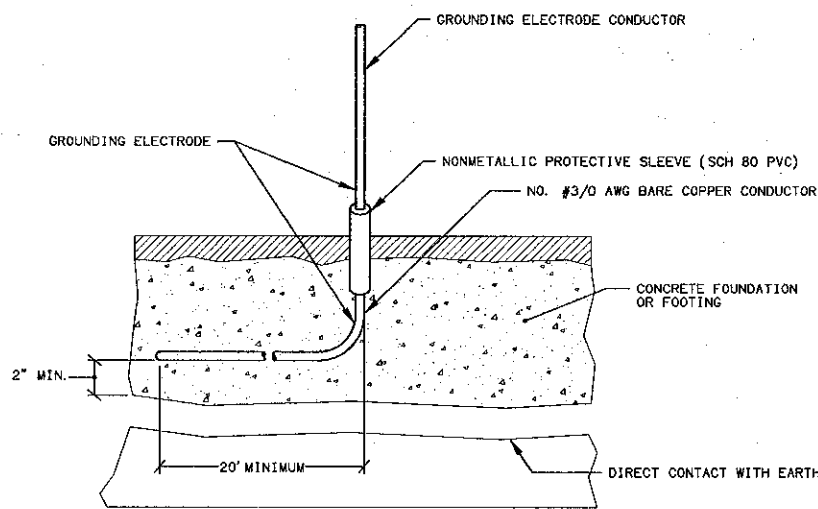
- 1 CONTINUOUS PULL, NO SPLICES, LABELED BY CONTRACTOR.
- 2 VERIFY AND PROVIDE CABLING PER FIRE ALARM VENDORS REQUIREMENTS.



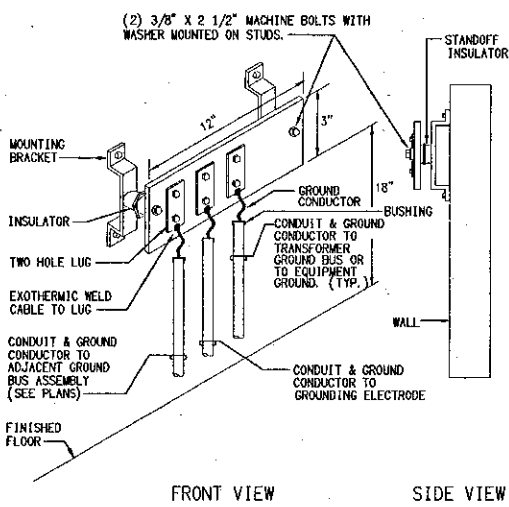
OUTDOOR BACKFLOW PREVENTER WIRING DIAGRAM SCALE: NONE E20 E60 4

DETAIL NOTES:

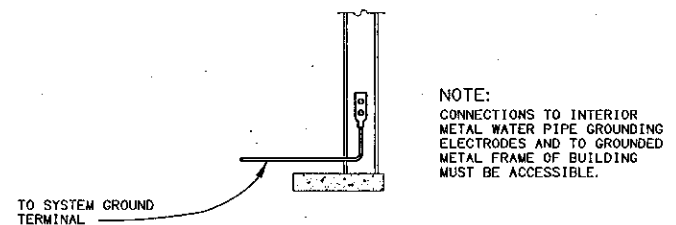
1. CONCRETE-ENCASED ELECTRODE: AN ELECTRODE ENCASED BY AT LEAST 2 INCHES OF CONCRETE, LOCATED WITHIN AND NEAR THE BOTTOM OF CONCRETE FOUNDATION OR FOOTING THAT IS IN DIRECT CONTACT WITH THE EARTH, CONSISTING OF AT LEAST 20 FEET OF ONE OR OF BARE COPPER CONDUCTOR NOT SMALLER THAN NO. #3/0.



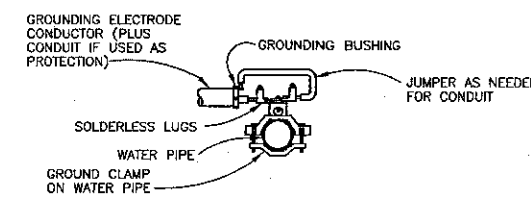
UFER GROUND DETAIL SCALE: NONE 5



GROUNDING ELECTRODE GROUND BUS ASSEMBLY SCALE: NONE 7



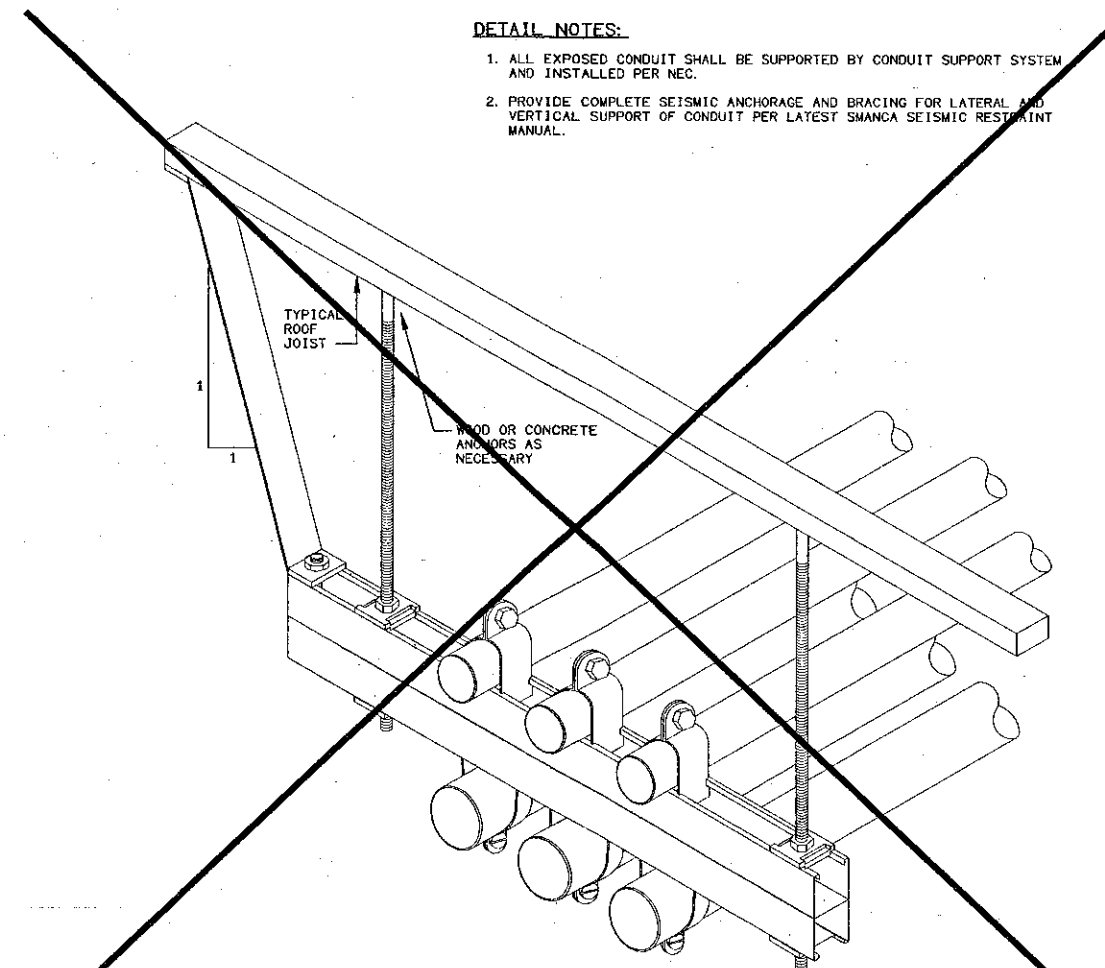
METAL FRAME GROUNDING DETAIL SCALE: NONE 6



COLD WATER GROUND DETAIL SCALE: NONE 1

DETAIL NOTES:

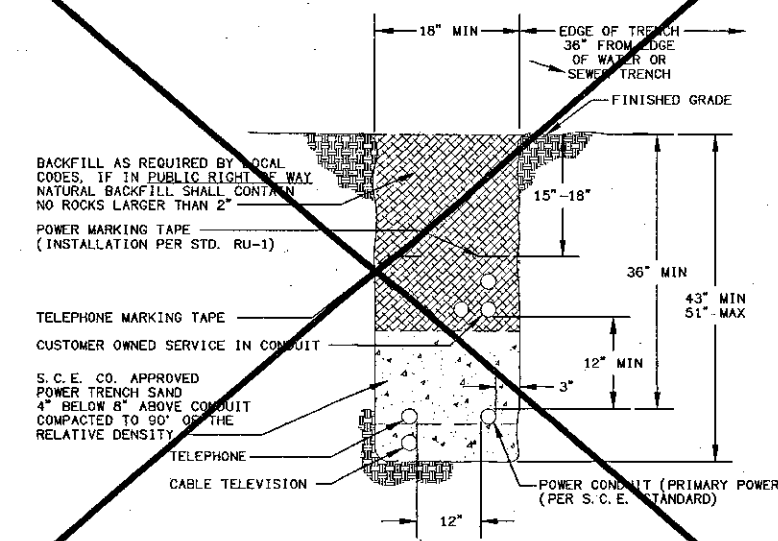
1. ALL EXPOSED CONDUIT SHALL BE SUPPORTED BY CONDUIT SUPPORT SYSTEM AND INSTALLED PER NEC.
2. PROVIDE COMPLETE SEISMIC ANCHORAGE AND BRACING FOR LATERAL AND VERTICAL SUPPORT OF CONDUIT PER LATEST SMANCA SEISMIC RESTRAINT MANUAL.



TYPICAL CONDUIT SUPPORT DETAIL SCALE: NONE 2

DETAIL NOTES:

1. TRENCH DEPTH SHALL BE 43" MIN. BELOW ELEVATION OF FINISHED GRADE.



TYPICAL TRENCH DETAIL SCALE: NONE 3



KRUGER BENSEN ZIEMER ARCHITECTS, INC.
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805/963.1726

STEVE DOWTY, A.I.A.
PRINCIPAL IN CHARGE

THIERRY H. CASSAN
PROJECT DESIGNER

All items, design, drawings and plans indicated or approved by the contractor are subject to and on the property of Kruger-Bensen-Ziemer. All materials, methods, means, means and devices for use on, and in connection with, the project shall be of such quality, quantity, composition or size and be used in the manner and in accordance with the specifications and drawings of the project. The contractor shall be responsible for the proper installation and use of the project. The contractor shall be responsible for the proper installation and use of the project. The contractor shall be responsible for the proper installation and use of the project.

LUNA & ASSOCIATES INC.
CONSULTING ELECTRICAL ENGINEERS
3800 CORTE MALIBU, #501
CANAANVILLE, CA 94012-8204
(805) 889-6600 FAX (805) 889-6610

PROJECT NO. 03-104498
DATE: 09/24/01
DRAWN BY: DENISE CUNNINGHAM
CHECKED BY: CRAIG HOOD
DATE: 09/24/01
JOB NO.: 99245
SHEET TITLE: ELECTRICAL DETAILS
SHEET: E7.0

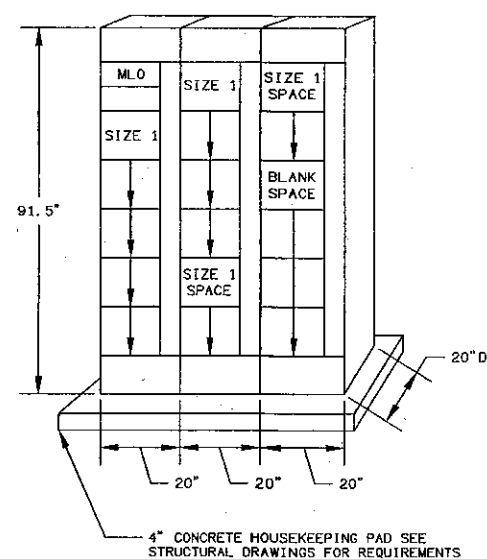
VENTURA COLLEGE LEARNING RESOURCES CENTER
Ventura County Community College District
Ventura, CA 93003
4667 Telegraph Road



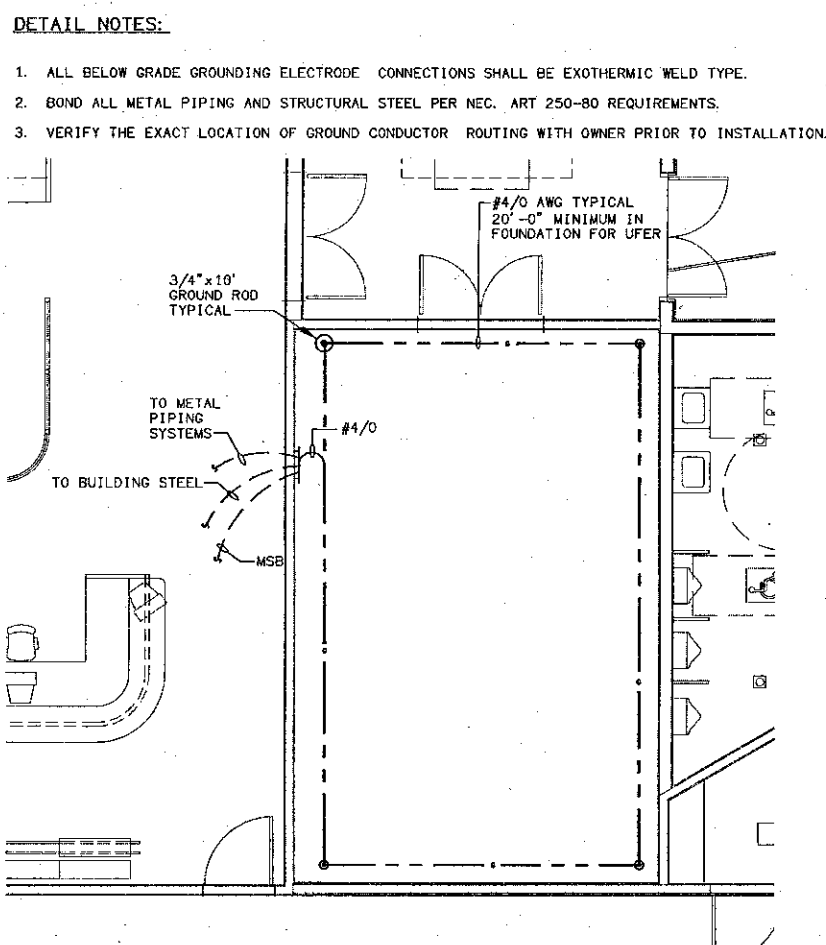
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APPL 03-104498
DATE: 09/24/01

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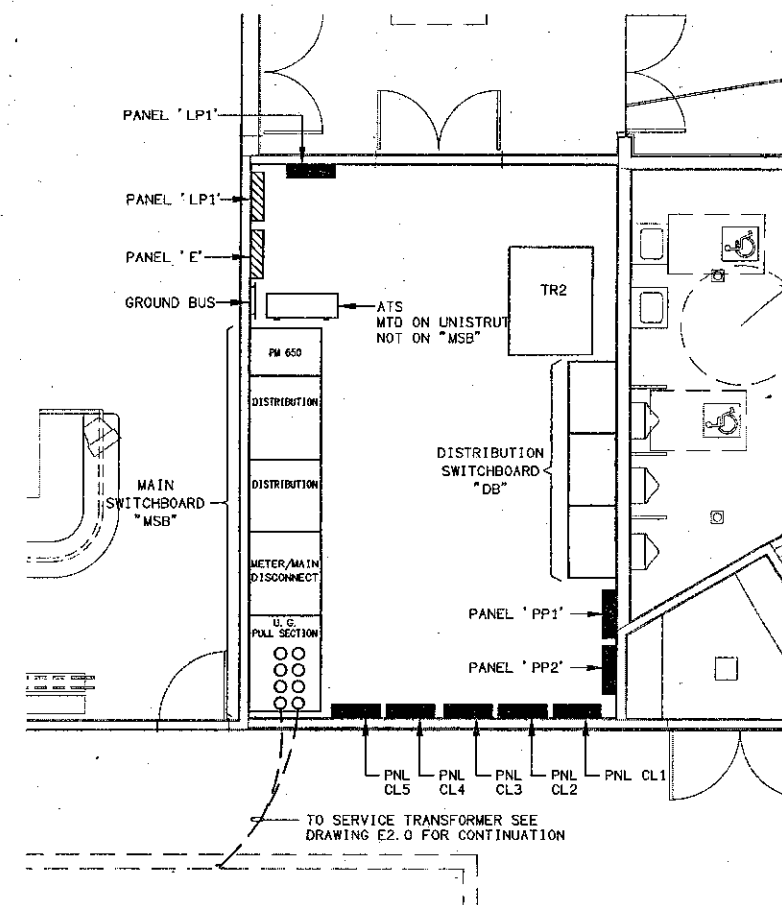
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SHEET: E7.0



NEW MOTOR CONTROL CENTER "MCCP" 7
200A, 480Y/277V, 3Ø, 3W, 22KAIC
SCALE: NONE



ELECTRICAL ROOM GROUNDING PLAN 4
SCALE: 1/4" = 1'-0"



ELECTRICAL ROOM - ENLARGED PLAN 1
SCALE: 1/4" = 1'-0"

SCHOOL ANCHORAGE NOTES

ALL ELECTRICAL EQUIPMENT SHALL BE BRACED OR SEISMIC ANCHORED TO RESIST HORIZONTAL FORCES ACTING IN ANY DIRECTION USING THE CRITERIA LISTED TO CONFORM TO C.C.R. TITLE 24, 1998 CBS SECTION 1632A AND TABLE 16A-D.
THE VALUES ARE FOR SEISMIC IMPORTANCE FACTOR, I=1.0, AND SEISMIC ZONE FACTOR Z=0.4.
WHERE ANCHORAGE DETAILS ARE NOT SHOWN ON THE PLANS, THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER AND THE FIELD ENGINEER OF THE DIVISION OF THE STATE ARCHITECT.



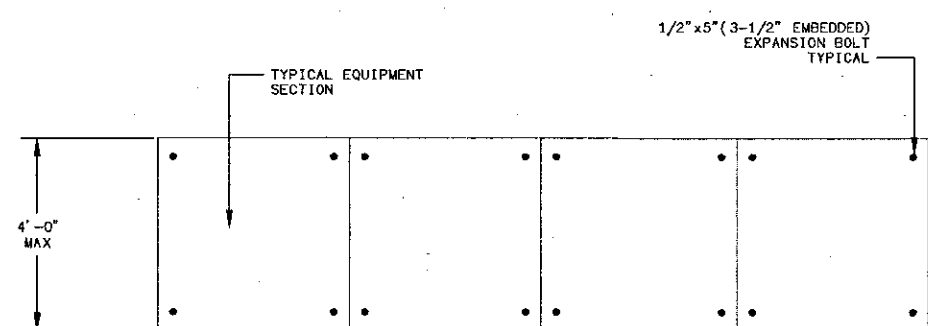
KRUGER BENSON ZIEMER ARCHITECTS, INC.
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(805) 963.1726

STEVE DOWDY, A.I.A.
PRINCIPAL IN CHARGE

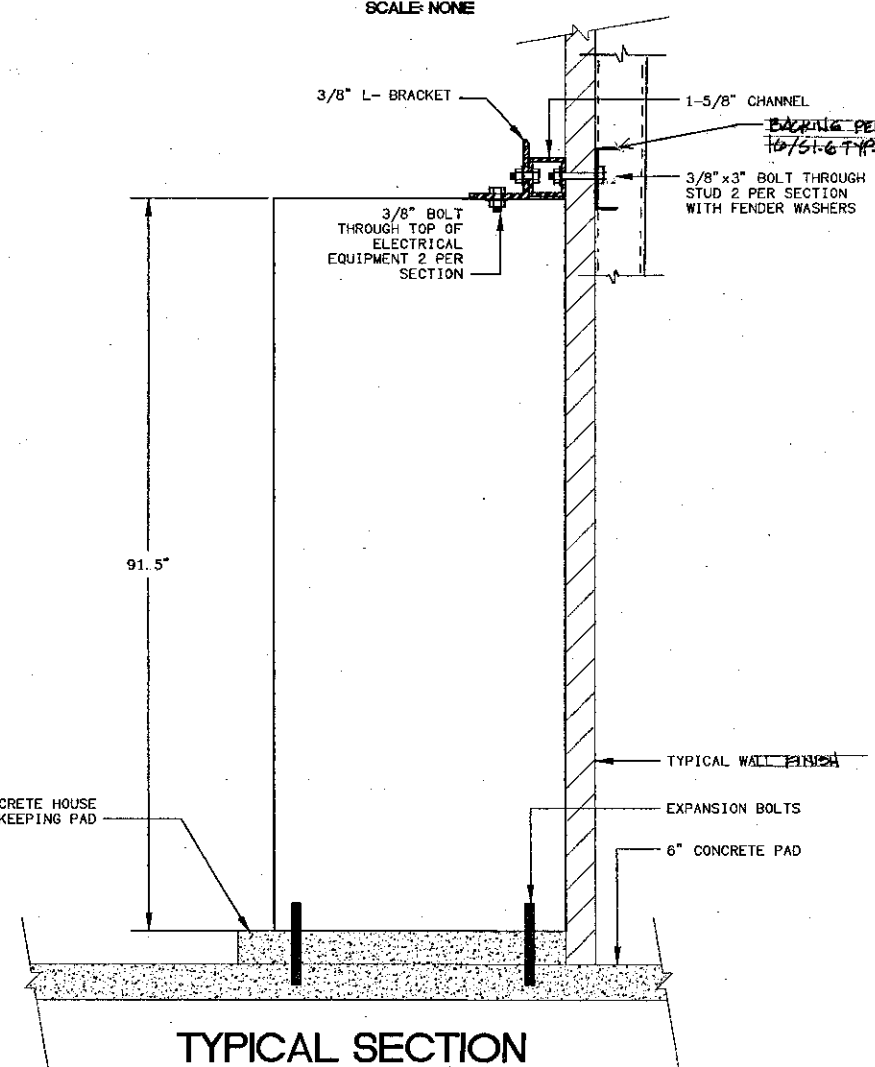
THIERRY H. CASSAN
PROJECT DESIGNER

LUNA & ASSOCIATES INC.
CONSULTING ELECTRICAL ENGINEERS
3885 CENTER HALLWAY, #601
CARMELIA, CA 95008-9094
(805) 388-8820 FAX (805) 388-8819

UNLESS OTHERWISE SPECIFIED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE DIVISION OF THE STATE ARCHITECT AND THE LOCAL JURISDICTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE DIVISION OF THE STATE ARCHITECT AND THE LOCAL JURISDICTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE DIVISION OF THE STATE ARCHITECT AND THE LOCAL JURISDICTION.

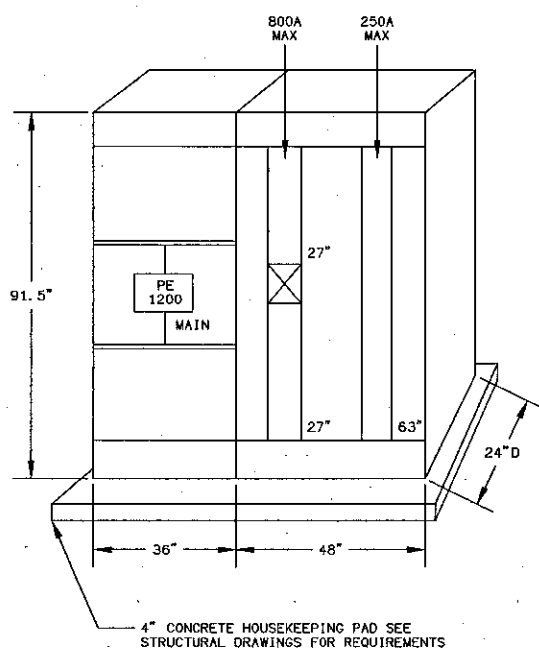


PLAN VIEW
SCALE: NONE

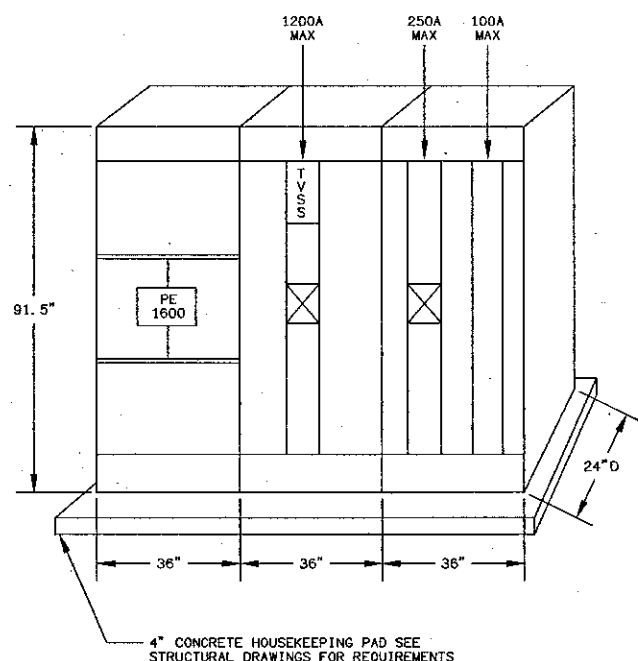


TYPICAL SECTION

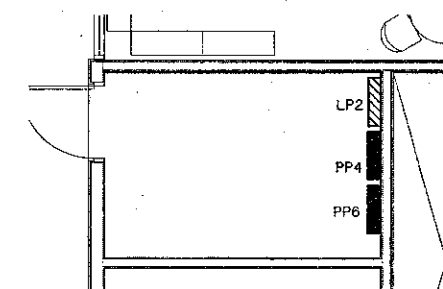
STAND UP ELECTRICAL EQUIPMENT ANCHORAGE DETAIL 8
SCALE: NONE



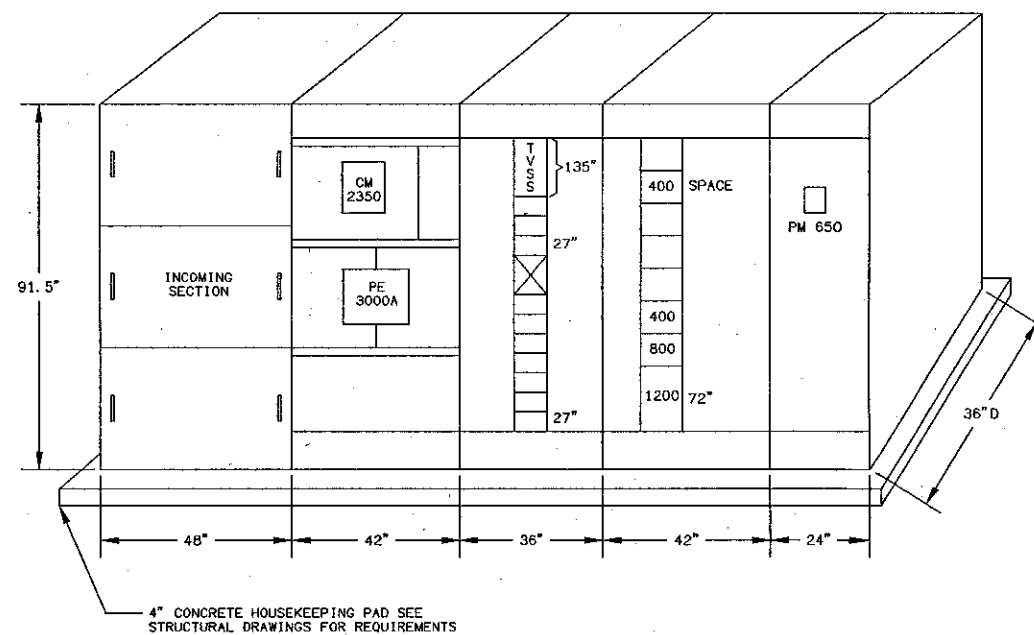
SWITCHBOARD "AC" 5
1200A, 480Y/277V, 3Ø, 4W, 42K SCALE: NONE



SWITCHBOARD "DB" 6
1600A, 120/208V, 3Ø, 4W, 35K SCALE: NONE

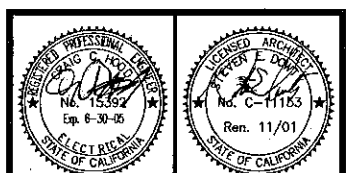


2ND FLOOR ELECTRIC ROOM NO.239 2
SCALE: 1/4" = 1'-0"



MAIN SERVICE SWITCHBOARD "MSB" 3
3000A, 480Y/277V, 3Ø, 4W, 65K
SCALE: NONE

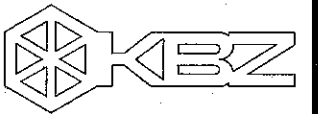
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Ventura County Community College District
Ventura, CA 93003
4667 Telegraph Road



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DIVISION OF THE STATE ARCHITECT
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APPL 03-104498
AC X, FLS P. 5, SS New
DATE: 11/18/01

NO.	DESCRIPTION	DATE	BY

DRAWN: DENISE CUNNINGHAM
CHECKED: CRAIG HOOD
DATE: 09/24/01
JOB NO.: 99245
SHEET TITLE: **ELECTRICAL DETAILS**
SHEET: **E7.1**



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ARCHITECTS, INC. AIA
30 W. ARROYO AVE. SANTA BARBARA, CA 93101
805/963.1726

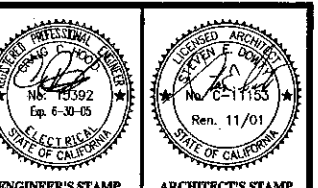
STEVE DOWTY, A.I.A.
PRINCIPAL IN CHARGE

THERRY H. CASSAN
PROJECT DESIGNER

LABRI & ASSOCIATES INC.
CONSULTING ELECTRICAL ENGINEERS
3000 CENTER MALPASO, #611
CARMELITA, CA 95008
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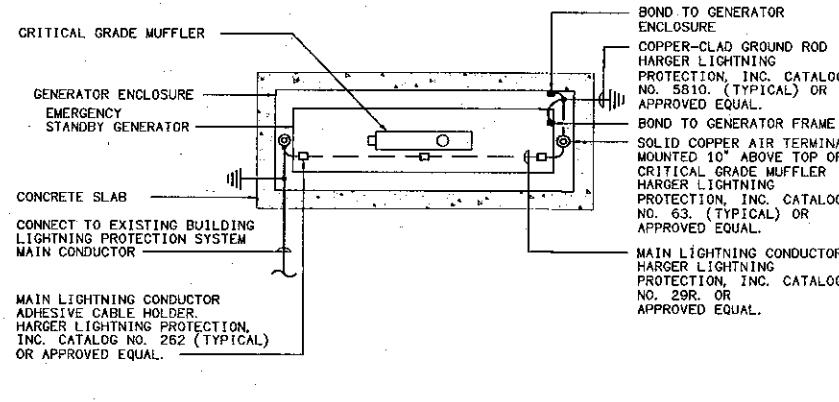
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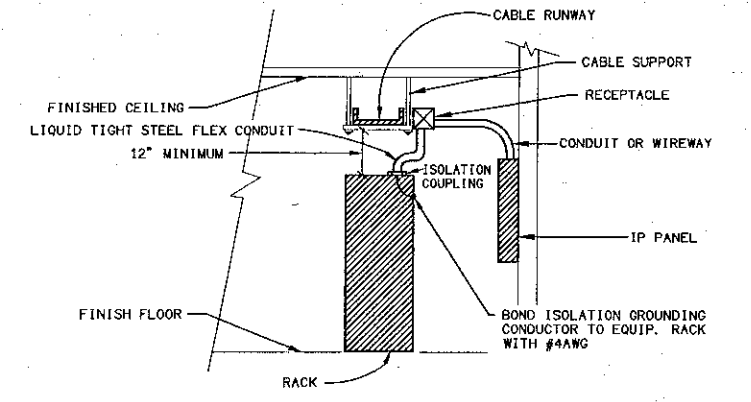
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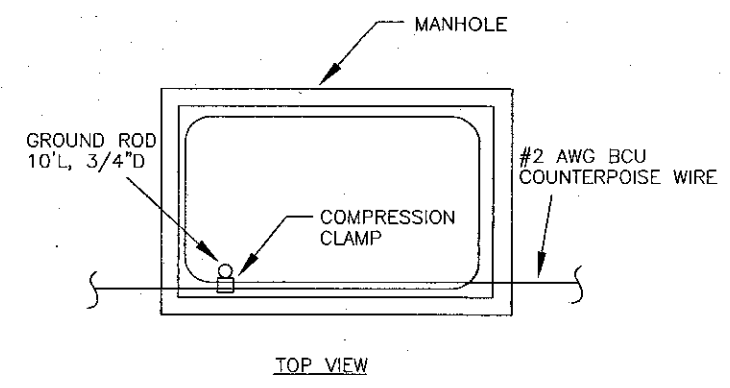
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SHEET TITLE:
**ELECTRICAL
DETAILS**
SHEET:
E7.2



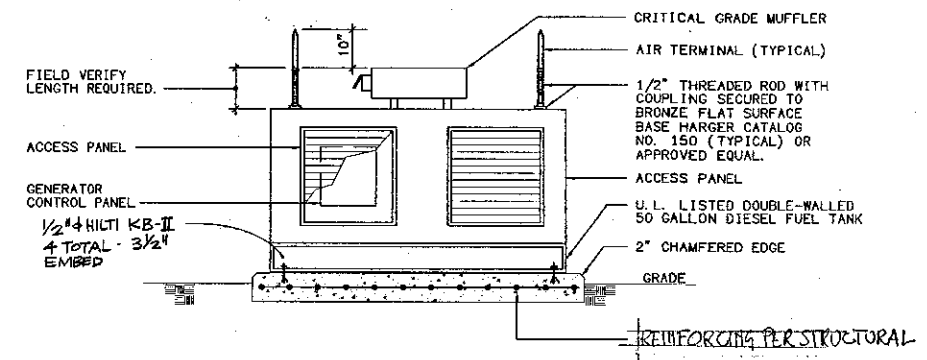
**EMERGENCY STAND-BY GENERATOR PLAN
LIGHTNING PROTECTION SYSTEM** ⑦
SCALE: NONE



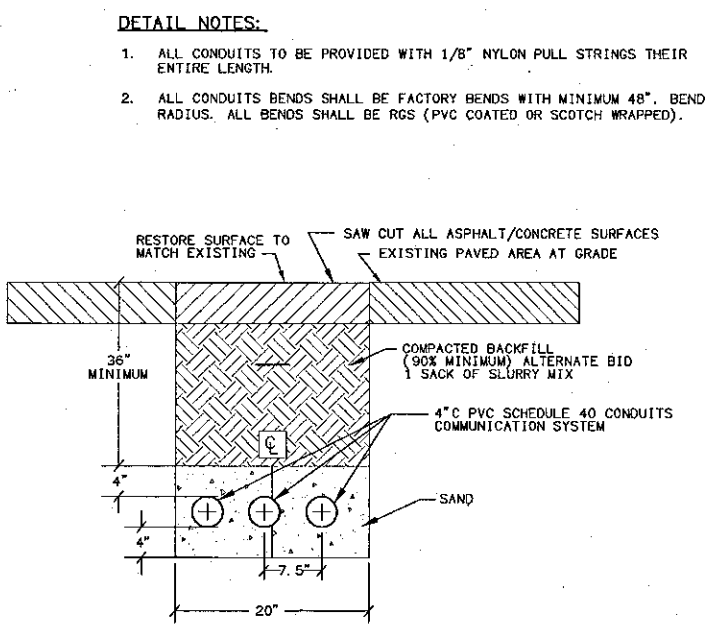
COMMUNICATION RACK TYPICAL SECTION ④
SCALE: NONE



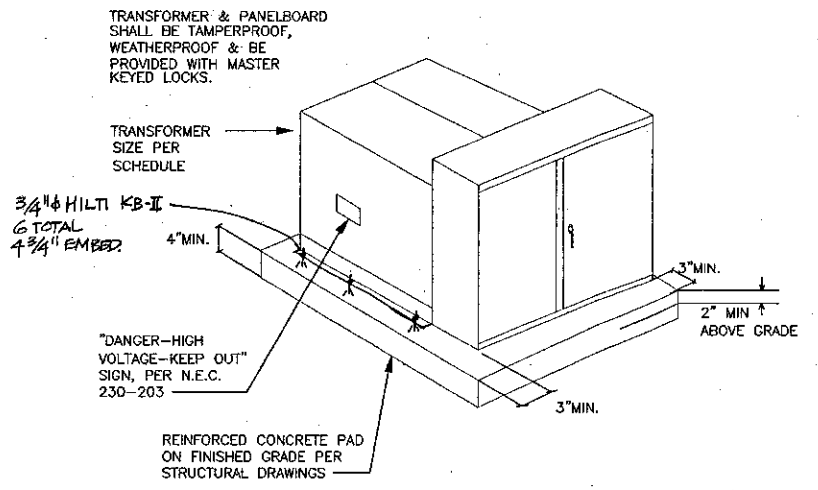
TYPICAL GROUNDING FOR MANHOLES ①
SCALE: NONE



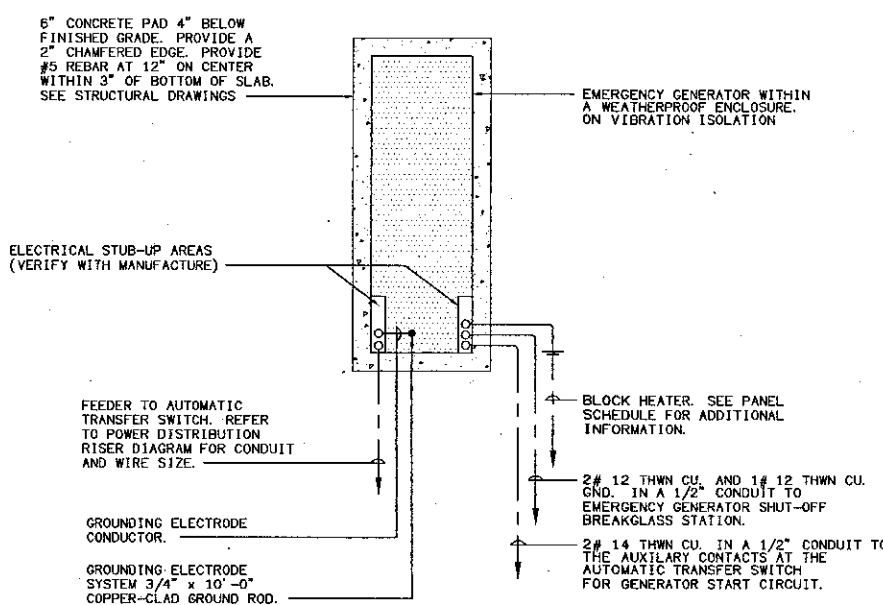
EMERGENCY STAND-BY GENERATOR ELEVATION ⑧
SCALE: NONE



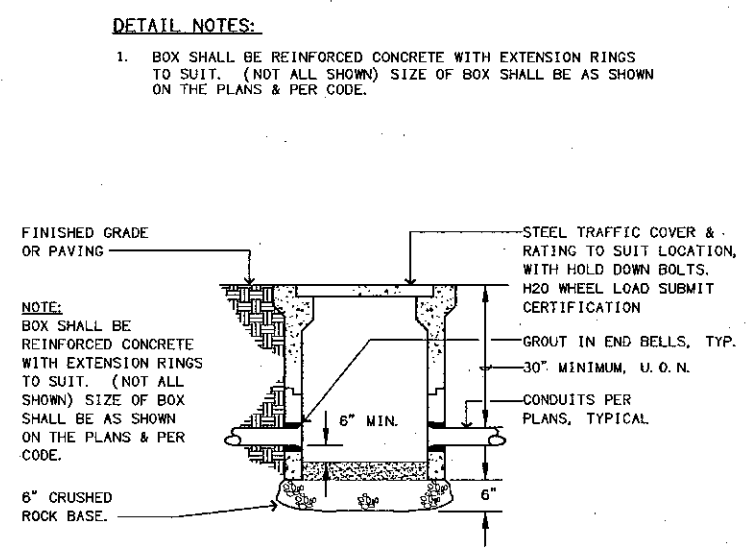
CONDUIT SECTION ⑤
SCALE: NONE



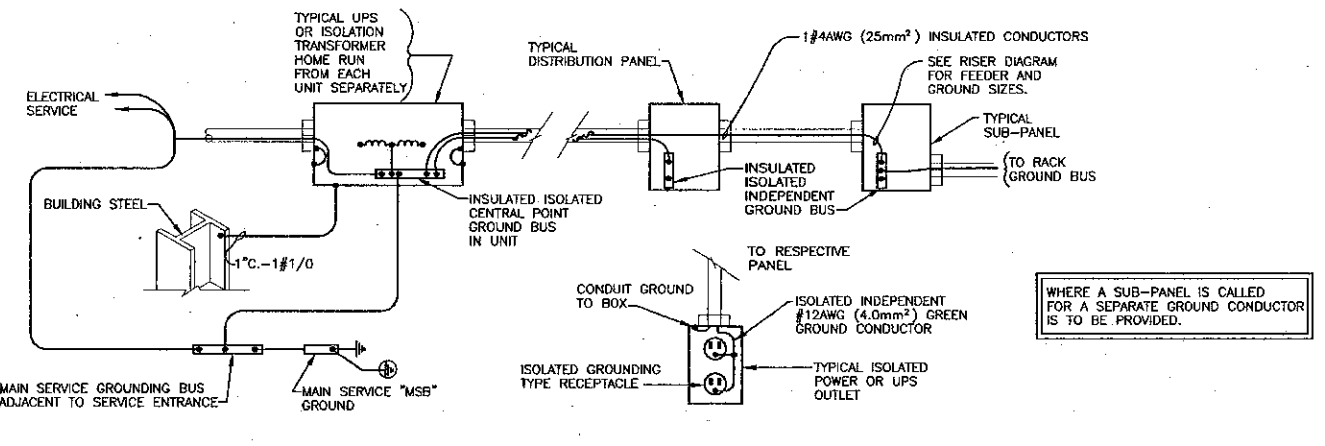
TRANSFORMER INSTALLATION ②
SCALE: NONE



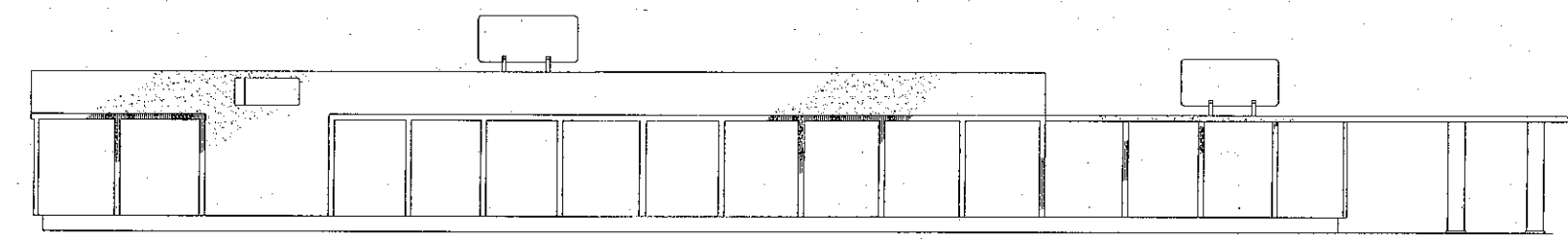
EMERGENCY GENERATOR PARTIAL SITE PLAN ⑨
SCALE: NONE



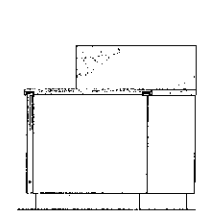
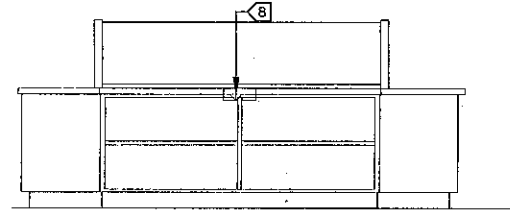
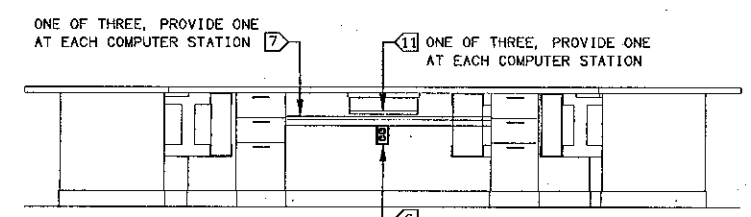
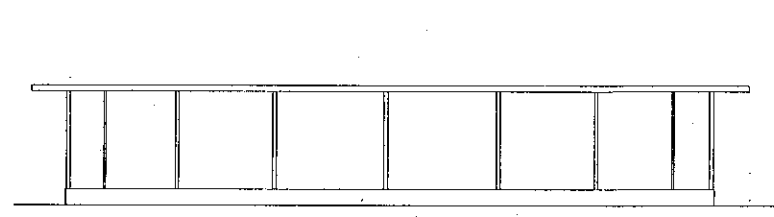
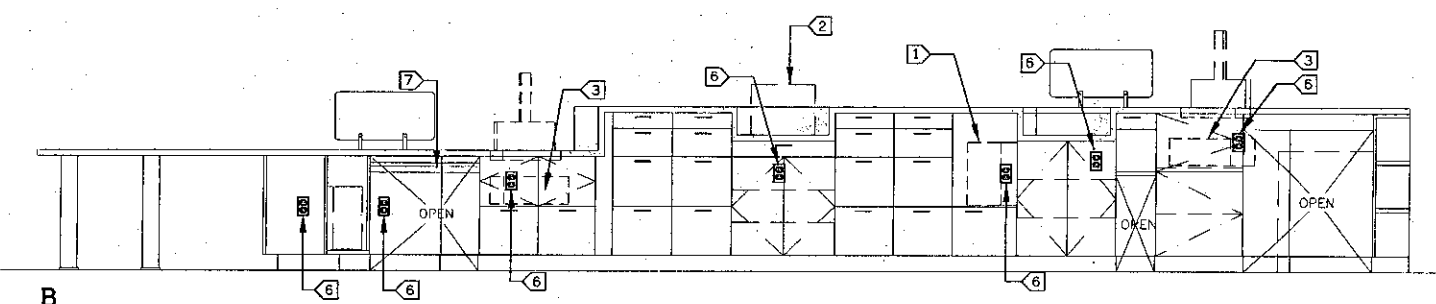
TYPICAL CONCRETE PULL BOX ⑥
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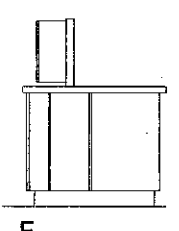
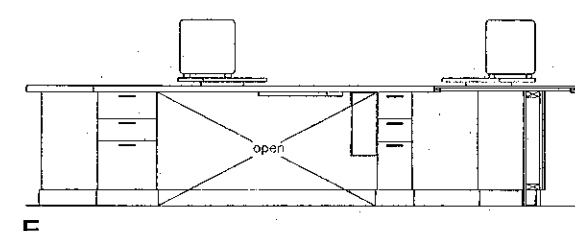
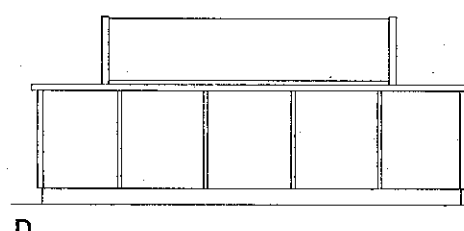
'ISOLATION TRANSFORMER' - GROUNDING SYSTEM-WIRING DIAGRAM ③
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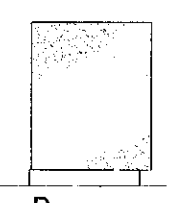
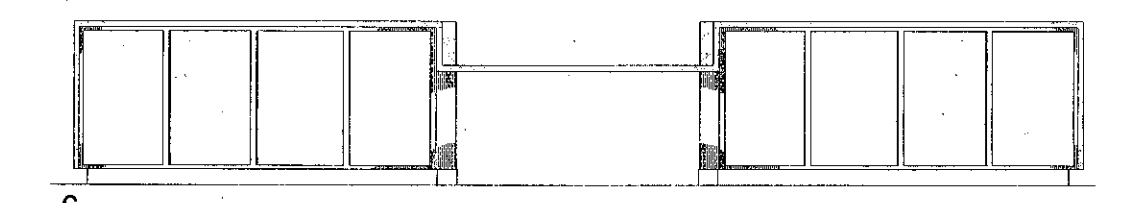
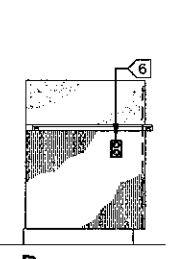
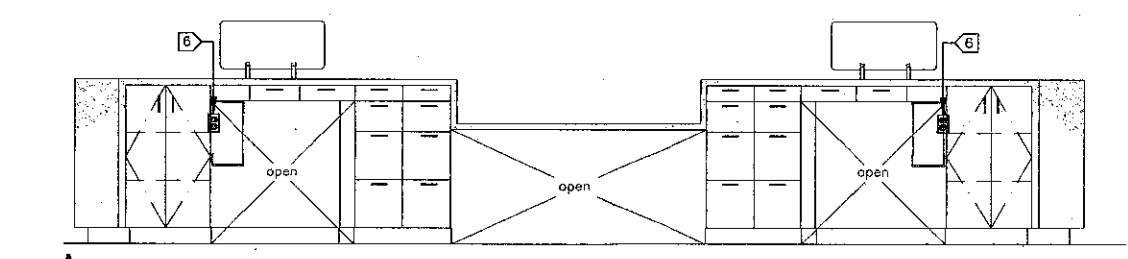
ELEVATIONS • CIRCULATION DESK 202
SCALE 1/2" = 1'-0" ①



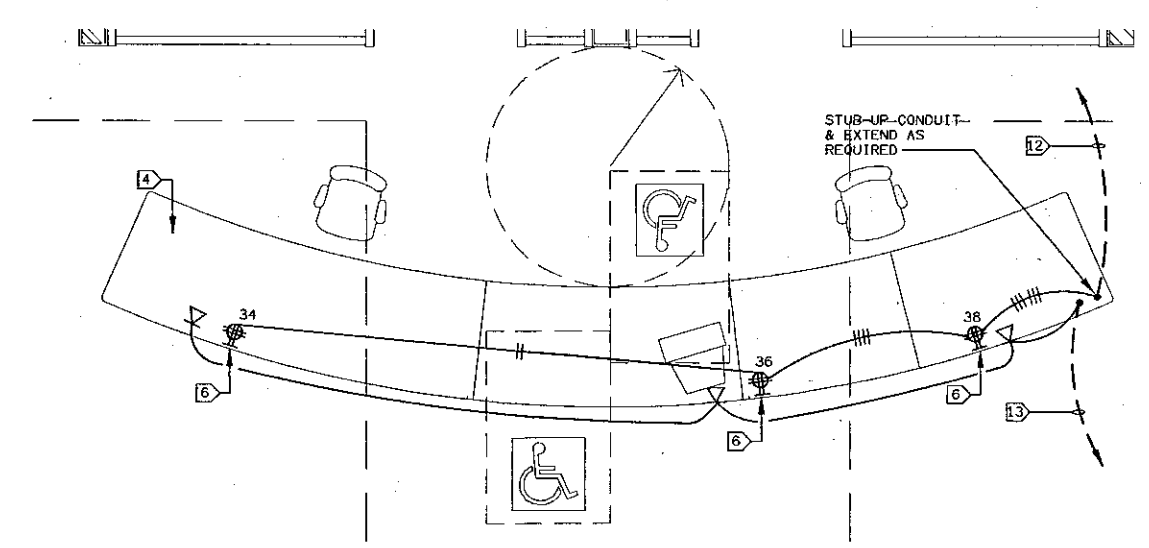
ELEV • CIRC DESK 202
SCALE 1/2" = 1'-0" ③



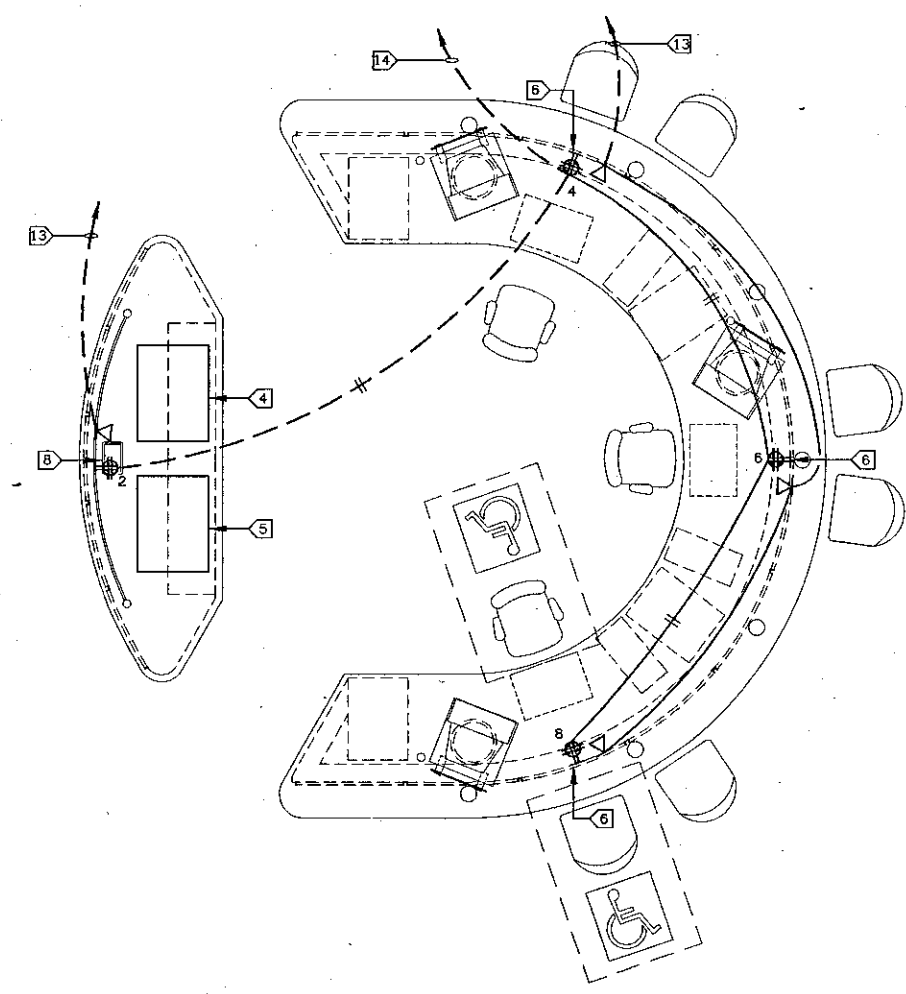
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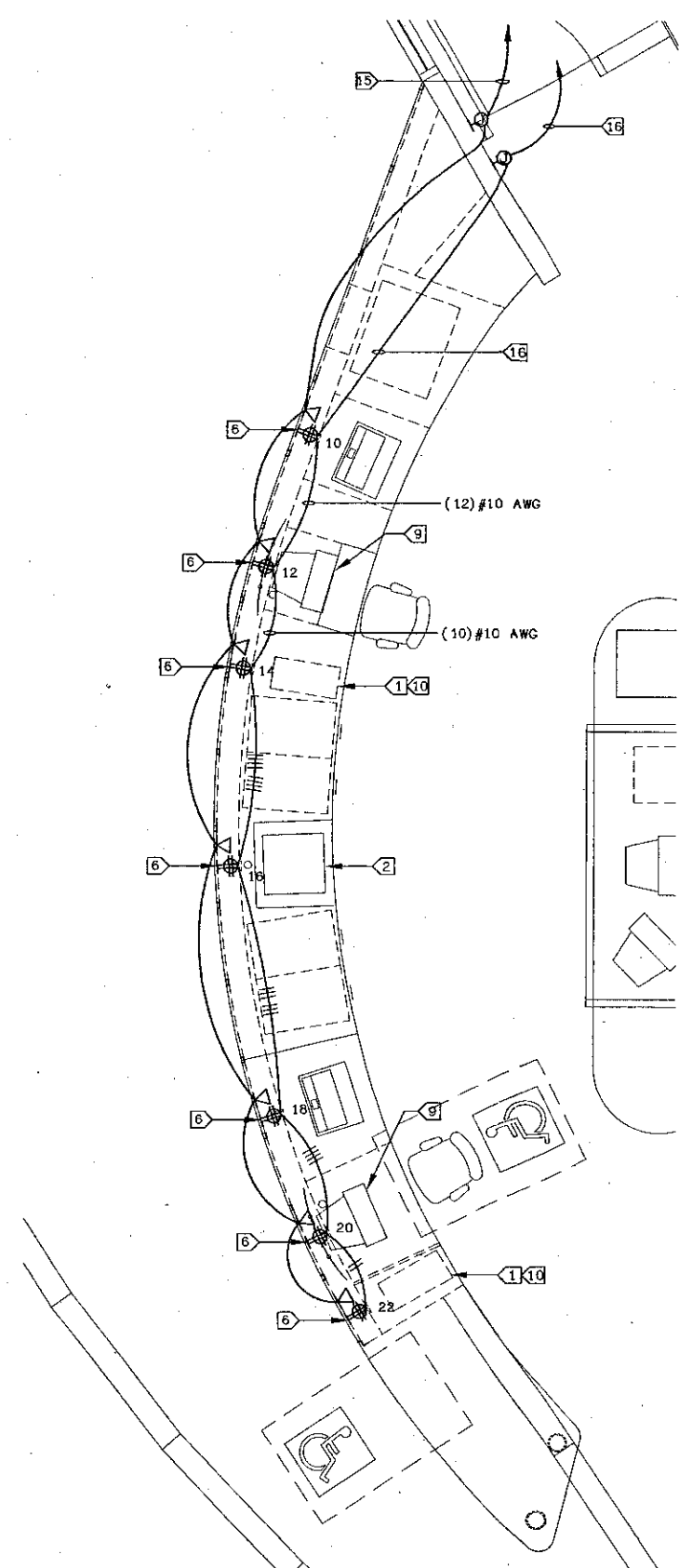
ELEVATIONS • CHECK IN-OUT DESK 104
SCALE 1/2" = 1'-0" ④



PLAN • CHECK IN-OUT DESK 104
SCALE 1/2" = 1'-0" ⑤



PLAN • REFERENCE DESK 202
SCALE 1/2" = 1'-0" ⑥



PLAN • REFERENCE DESK 202
SCALE 1/2" = 1'-0" ⑦

SHEET NOTES:

- CONTRACTOR SHALL VERIFY LOCATION & REQUIREMENTS OF ALL DEVICES REQUIRING ELECTRICAL CONNECTION PRIOR TO BID PROPOSAL, ROUGH-IN AND FINISH.
- CONTRACTOR SHALL, IN ROUTING ALL CIRCUITS, INCREASE CONDUCTOR & CONDUIT SIZE TO ALLOW FOR VOLTAGE DROP SHOULD THE CONTRACTOR EXCEED ROUTING INDICATED ON DRAWING. ENGINEER OF RECORD MUST BE NOTIFIED PRIOR TO ANY DEVIATIONS FROM APPROVED PLAN CHECK (PERMIT SET) DRAWINGS.
- COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES, AND WIRING REQUIRED WHETHER SHOWN ON ELECTRICAL DRAWINGS OR NOT.
- CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL CONDUCTORS PER CONDUCTOR MANUFACTURERS RECOMMENDATIONS, PER THE NATIONAL ELECTRICAL CODE AND PER LOCAL AUTHORITIES HAVING JURISDICTION.
- 3/4" CONDUIT MINIMUM U.O.N., #10 AWG MINIMUM.
- PROVIDE CODE SIZE EQUIPMENT GROUNDING CONDUCTORS IN ALL OCCUPIED CONDUITS.
- ALL DEVICES WITH 1G SUBSCRIPT, ARE ISOLATED GROUND RECEPTACLES WITH SEPARATE 1G CONDUCTOR TO PANELBOARD.
- PROVIDE CONTROLS FOR MECHANICAL EQUIPMENT PER MECHANICAL DOCUMENTS. VERIFY LOCATION AND REQUIREMENTS OF MECHANICAL EQUIPMENT ON MECHANICAL DOCUMENTS.
- VERIFY LOCATION OF ALL DEVICES ON ARCHITECTURAL PLANS.
- VERIFY THE EXACT ROUTING OF ALL EXPOSED CONDUIT WITH OWNER PRIOR TO INSTALLATION.

KEY NOTES:

- ① CPU TOWER, NIC.
- ② CASH REGISTER, NIC.
- ③ ELECTRONICS BOX FOR 3M STAFF WORKSTATION, INCLUDED IN CONTRACT.
- ④ PRINTER NIC.
- ⑤ SCANNER NIC.
- ⑥ PROVIDE POWER/DATA/PHONE OUTLETS BUILT INTO CASEWORK.
- ⑦ WIRE MANAGER TYPE 1.
- ⑧ DESKTOP POWER & COMMUNICATIONS SYSTEM.
- ⑨ COMPUTER MONITOR & KEYBOARD, NIC.
- ⑩ PROVIDE ACCESS IN CASEWORK FOR CONNECTION FROM COMPUTER MONITOR TO CPU TOWER.
- ⑪ POWER BRACKET.
- ⑫ PP1-34-36-38; 1" C 6#10 & 1#10 GND.
- ⑬ 1" C & CAT 5 CABLING PER TC SERIES DRAWINGS.
- ⑭ PP4-2-4-6-8; 1" C-8#10 & 1#10 GND.
- ⑮ 1-1/4" C & CAT 5 CABLING PER TO SERIES DRAWINGS.
- ⑯ PP4-10-12-14, 16-18-20, 22; 1" C-14#10 & 1#10 GND.

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STEVE DOWTY, A.I.A.
PRINCIPAL IN CHARGE

THIERRY H. CASSAN
PROJECT DESIGNER

All items, design arrangements and plans included or represented by the drawings are made for and are subject to the provisions of the contract documents, including, but not limited to, the General Conditions, Specifications, and Addendum. The contractor shall be responsible for obtaining all necessary permits and approvals from the appropriate authorities. The contractor shall be responsible for obtaining all necessary permits and approvals from the appropriate authorities. The contractor shall be responsible for obtaining all necessary permits and approvals from the appropriate authorities.

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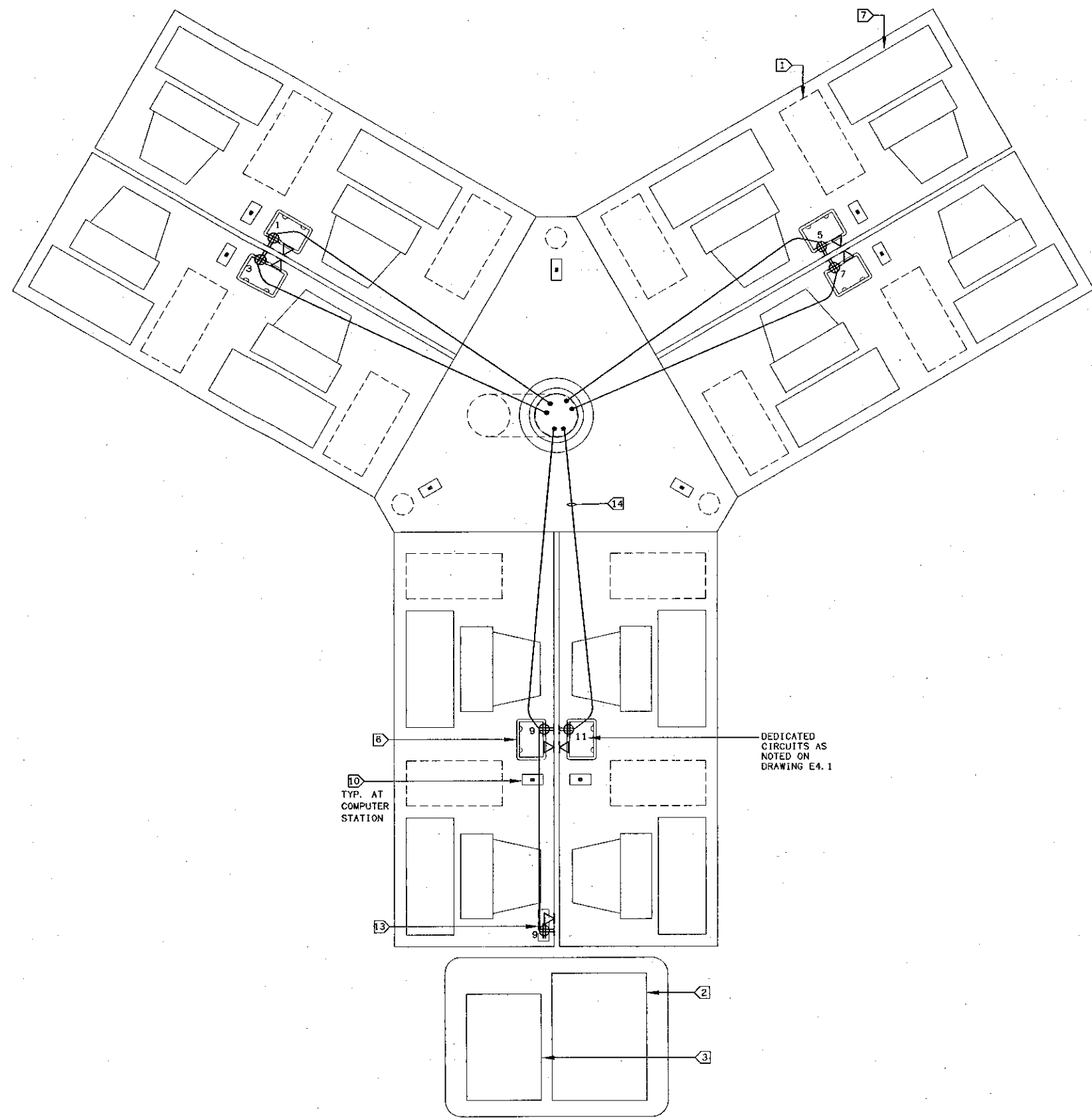
**VENTURA COLLEGE
LEARNING RESOURCES CENTER**
Ventura County Community College District
Ventura, CA 93003
4667 Telegraph Road

ENGINEER'S STAMP **ARCHITECT'S STAMP**

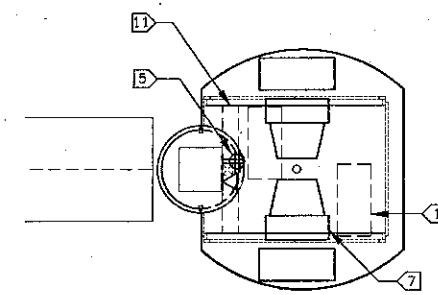
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DIVISION OF THE STATE ARCHITECT
FILE NUMBER: 5631
APPL 03-104498
NO. Y PLS. D. SS. H. H.
DATE: 11/11/01

NO.	DESCRIPTION	DATE	BY

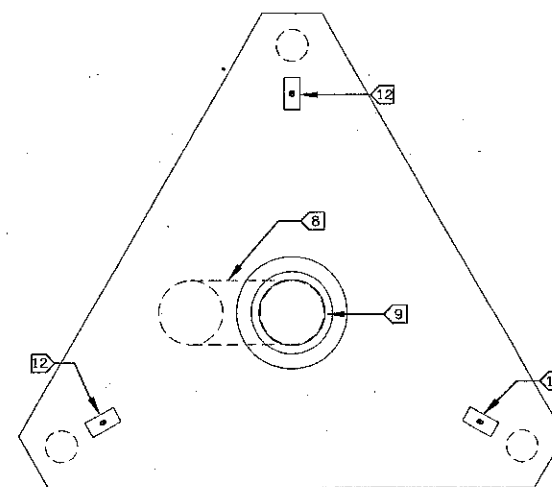
DRAWN	DENISE CUNNINGHAM
CHECKED	CRAIG HOOD
DATE	09/24/01
JOB NO.	99245
SHEET TITLE	FIRST AND SECOND FLOOR-CASEWORK PLANS AND ELEVATIONS
SHEET	E7.3



PLAN • COMPUTER POD 1
SCALE 1" = 1'-0"



PLAN • REFERENCE STATION 3
SCALE 1/2" = 1'-0"



CENTER SECTION OF COMPUTER POD 2
SCALE 1" = 1'-0"

SHEET NOTES:

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- PROVIDE CODE SIZE EQUIPMENT GROUNDING CONDUCTORS IN ALL OCCUPIED CONDUITS.
- ALL DEVICES WITH IG SUBSCRIPT, ARE ISOLATED GROUND RECEPTACLES WITH SEPARATE IG CONDUCTOR TO PANELBOARD.
- PROVIDE CONTROLS FOR MECHANICAL EQUIPMENT PER MECHANICAL DOCUMENTS. VERIFY LOCATION AND REQUIREMENTS OF MECHANICAL EQUIPMENT ON MECHANICAL DOCUMENTS.
- VERIFY LOCATION OF ALL DEVICES ON ARCHITECTURAL PLANS.
- VERIFY THE EXACT ROUTING OF ALL EXPOSED CONDUIT WITH OWNER PRIOR TO INSTALLATION.

KEY NOTES:

- CPU TOWER, NIC.
- PRINTER NIC.
- SCANNER NIC.
- COMPUTER POD ID SIGNAGE 4.
- PROVIDE POWER/DATA/PHONE OUTLETS BUILT INTO CASEWORK.
- DESKTOP POWER & COMMUNICATIONS SYSTEM. MECHANICAL DOCUMENTS. VERIFY LOCATION AND REQUIREMENTS OF MECHANICAL EQUIPMENT ON MECHANICAL DOCUMENTS.
- CLEAR FLEXIBLE TUBE FOR CABLE ACCESS.
- LIGHT FIXTURE, BY FURNITURE VENDOR.
- "ON" LIGHT SWITCH FOR CENTER LIGHT FIXTURE.
- "OFF" LIGHT SWITCH FOR CENTER LIGHT FIXTURE. FURNITURE VENDOR.
- POWER / DATA FOR EQUIPMENT ON MOBILE CART. FURNITURE VENDOR.
- 1/2" SEAL TIGHT CONDUIT ATTACHED TO UNDERSIDE OF FURNITURE AND ROUTED THROUGH TO J-BOX IN CABLE TRENCH.



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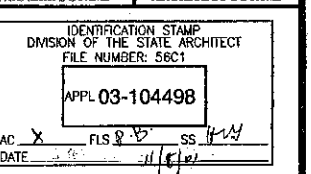
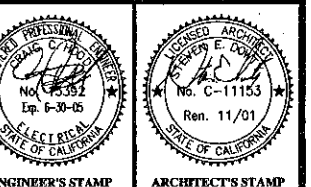
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PRINCIPAL IN CHARGE

THIERRY H. CASSAN
PROJECT DESIGNER

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IDENTIFICATION STAMP
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FILE NUMBER: 56C1
APPL 03-104498
DATE: 09/24/01

NO.	DESCRIPTION	DATE	BY

DRAWN: DENISE CUNNINGHAM
CHECKED: CRAIG HOOD
DATE: 09/24/01
JOB NO.: 99245

SHEET TITLE
**FIRST FLOOR
COMPUTER
POD DETAILS**

SHEET
E7.4

SHEET INDEX

TC1.0 COMMUNICATIONS SYMBOLS LIST, ABBREVIATIONS, GENERAL NOTES
 TC2.0 SITE COMMUNICATIONS DEMOLITION PLAN
 TC2.1 SITE COMMUNICATIONS PLAN
 TC6.1 FIRST FLOOR COMMUNICATIONS PLAN
 TC6.1.1 MEZZANINE FLOOR COMMUNICATIONS PLAN
 TC6.2 SECOND FLOOR COMMUNICATIONS PLAN
 TC6.3 THIRD FLOOR COMMUNICATIONS PLAN
 TC6.4 COMMUNICATIONS ROOMS DETAIL PLANS
 TC6.5 COMMUNICATIONS ROOMS AND EQUIPMENT DETAIL PLANS
 TC6.5.1 COMMUNICATIONS ROOM HARDWARE DETAILS
 TC6.6 COMMUNICATIONS RISER DETAIL PLANS

GENERAL NOTES

1. WORK BY TELECOMMUNICATIONS CONTRACTOR

ARCHITECTURAL, ELECTRICAL, MECHANICAL, STRUCTURAL AND SECURITY DRAWINGS ARE PROVIDED AS REFERENCE DOCUMENTS. THE DOCUMENTS ARE INTENDED AS SUPPLEMENTAL INFORMATION TO COMPLETE THE CONTRACTED SCOPE OF WORK OUTLINED IN THE OWNER/CONTRACTOR AGREEMENT, THE PROJECT MANUAL, THE TELECOMMUNICATIONS CAMPUS AND BUILDING CONSTRUCTION DRAWINGS AND ALL ADDENDA AND MODIFICATIONS ISSUED BY THE ARCHITECT/PROJECT MANAGER.

THE TELECOMMUNICATIONS WORK INCLUDES THE FOLLOWING: PROCUREMENT AND STAGING OF SPECIFIED MATERIAL; PLACEMENT OF ALL SPECIFIED LOW VOLTAGE COMMUNICATIONS CABLE, TERMINATION AND INTERCONNECTIONS HARDWARE; TERMINATION AND INTERCONNECTION OF ALL CABLES; TESTING OF ALL CABLES AND TERMINATIONS DEVICES; FIRE STOPPING AS REQUIRED; AND GROUNDING/BONDING OF CABLES AND TERMINATION EQUIPMENT AS REQUIRED BY GOVERNING CODES TO PROVIDED ELECTRICAL GROUNDING SYSTEM. THE SPECIFIC TERMS AND CONDITIONS OF THE WORK ARE DEFINED IN THE OWNER/CONTRACTOR AGREEMENT AND THE PROJECT MANUAL. ALL WORK IS SUBJECT TO FURTHER MODIFICATIONS AND ADDITIONS/DELETIONS AS SPECIFIED IN BULLETINS OR ADDENDA ISSUED BY THE ARCHITECT.

LOW VOLTAGE COMMUNICATIONS CABLE INCLUDES ALL OUTSIDE PLANT CABLE AND BUILDING INSIDE WIRING SPECIFIED FOR COMMUNICATIONS OR SIGNALING. MEDIA TYPES INCLUDE TWISTED PAIR COPPER CABLE, COAXIAL CABLE, FIBER OPTIC CABLE OF ALL DIMENSIONS AND CONSTRUCTION.

CONTRACTOR SHALL REVIEW ALL DOCUMENTS, AND VERIFY ALL DIMENSIONS AND FIELD CONDITIONS AND SHALL CONFIRM THAT WORK IS BUILDABLE AS SHOWN. ANY CONFLICTS OR OMISSIONS SHALL BE IMMEDIATELY REPORTED TO THE CONSTRUCTION MANAGER AND ARCHITECT FOR CLARIFICATION PRIOR TO PERFORMING ANY WORK IN QUESTION. ANY WORK INSTALLED IN CONFLICT WITH ANY OF THE DRAWINGS SHALL BE CORRECTED BY THE CONTRACTOR AT HIS OWN EXPENSE AND AT NO EXPENSE OR LIABILITY TO THE OWNER OR ARCHITECT.

OMISSIONS FROM THE DRAWINGS/SPECIFICATIONS OR CONFLICTS IN THE DETAILS OF WORK WHICH ARE MANIFESTLY NECESSARY TO CARRY OUT THE INTENT OF THE DRAWINGS AND SPECIFICATIONS, OR WHICH ARE CUSTOMARILY PERFORMED, SHALL NOT RELIEVE THE CONTRACTOR FROM PERFORMING SUCH OMITTED OR CONFLICTING DETAILS OF THE WORK. WORK SHALL BE PERFORMED AS IF FULLY AND CORRECTLY SET FORTH AND DESCRIBED IN THE DRAWINGS AND SPECIFICATIONS.

ALL SYMBOLS, ABBREVIATIONS, AND MATERIAL INDICATIONS USED IN THE DRAWINGS ARE CONSIDERED TO BE CONSTRUCTION STANDARDS. IF THE CONTRACTOR HAS QUESTIONS REGARDING SAME OF THEIR EXACT MEANING, THE CONTRACTOR SHALL REQUEST THE CONSULTING DESIGNER TO ISSUE CLARIFICATION.

SOME DRAWINGS ARE NOT TO SCALE. DIMENSIONS MISSING FROM PLANS OR NEEDED FOR EXECUTION OF WORK SHALL BE CLARIFIED OR PROVIDED BY THE CONSULTING DESIGNER BEFORE THE WORK IS INSTALLED.

IN CASE OF CONFLICT BETWEEN ARCHITECTS AND ENGINEERS DRAWINGS IN LOCATING MATERIALS/EQUIPMENT, THE ARCHITECTURAL DRAWINGS SHALL GOVERN.

CONTRACTOR SHALL COORDINATE ALL INSTALLATION SCHEDULES FOR VOICE, DATA AND INFRASTRUCTURE CABLING, SYSTEMS AND TERMINATION HARDWARE WITH THE PROJECT MANAGER AND GENERAL CONTRACTOR.

WHENEVER POSSIBLE ALL WORK SHALL BE PERFORMED DURING REGULAR BUSINESS HOURS. ALL CONSTRUCTION PHASING MUST BE COORDINATED WITH THE CONSTRUCTION MANAGER.

CONTRACTOR SHALL NOTIFY PROJECT MANAGER AND GENERAL CONTRACTOR IMMEDIATELY OF ALL UTILITIES DETERMINED IN COURSE OF CONSTRUCTION AS BEING NECESSARY TO BE TEMPORARILY SHUTOFF, MODIFIED AND/OR REMOVED WHICH HAVE NOT OTHERWISE BEEN NOTED IN THE CONTRACT DOCUMENTS. CONTRACTOR SHALL REMOVE SUCH UTILITIES ONLY AFTER CONSULTATION WITH ARCHITECT, PROJECT MANAGER AND GENERAL CONTRACTOR.

"TYPICAL" OR "TYP" SHALL MEAN THAT THE CONDITION IS REPRESENTATIVE FOR SIMILAR CONDITIONS THROUGHOUT, UNLESS OTHERWISE NOTED. DETAILS ARE USUALLY KEYED AND NOTED "TYP" ONLY ONCE, WHEN THEY FIRST OCCUR.

PRIOR TO SUBMITTAL OF BIDS, THE CONTRACTOR SHALL IDENTIFY IN WRITING ANY AND ALL DISCREPANCIES AND/OR OMISSIONS OF MATERIALS REQUIRED FOR A COMPLETE JOB. NO CHANGE ORDERS WILL BE ALLOWED FOR OBVIOUS DISCREPANCIES NOT IDENTIFIED IN WRITING.

THE CONTRACTOR SHALL COMPLY WITH ALL CODES, LAWS, ORDINANCES, RULES, AND REGULATIONS OF ALL PUBLIC AUTHORITIES (FEDERAL, STATE, OR LOCAL) GOVERNING THE WORK. THE MOST STRINGENT SHALL APPLY.

SUBSTITUTIONS, REVISIONS, OR CHANGE MUST BE SUBMITTED TO THE PROJECT MANAGER FOR REVIEW (IN CONFORMANCE WITH SPECIFIED PROCEDURES) PRIOR TO PURCHASE, FABRICATION, OR INSTALLATION.

ALL MANUFACTURED ARTICLES, MATERIALS AND EQUIPMENT SHALL BE APPLIED, INSTALLED, CONNECTED, ERECTED, CLEANED AND CONDITIONED PER MANUFACTURER'S INSTRUCTIONS. IN CASE OF DIFFERENCES BETWEEN THE MANUFACTURER'S INSTRUCTIONS AND THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL NOTIFY THE PROJECT MANGER AND ARCHITECT PRIOR TO PROCEEDING.

CONTRACTOR SHALL REMOVE FROM SITE AND LEGALLY DISPOSE OF ALL REFUSE, DEBRIS, RUBBISH, AND OTHER MATERIALS RESULTING FROM INSTALLATION. CONTRACTOR SHALL REMOVE TOOLS AND EQUIPMENT FROM SITE UPON COMPLETION OF WORK, AND SHALL LEAVE CONTRACT AREAS AND SITE CLEAN, ORDERLY AND IN A CONDITION ACCEPTABLE FOR NEW OR OTHER CONSTRUCTION.

ALL WORK NOTED "BY OTHERS" SHALL BE PROVIDED BY OWNER OR UNDER SEPARATE CONTRACT. CONTRACTOR SHOULD ACCOUNT FOR SCHEDULE DEPENDENCIES FOR THE "OTHER" WORK IN DETERMINING THE SCHEDULE FOR HIS PROVIDED WORK.

2. WORK BY GENERAL CONTRACTOR

ALL SUBSTRUCTURE WORK (CONDUIT, MANHOLES, PULLBOXES, ETC.) DEPICTED ON SITE TELECOMMUNICATION DRAWINGS IS PROVIDED AS REFERENCE AND COORDINATION INFORMATION ONLY. THE DOCUMENTS ARE SOLE INTENDED AS SUPPLEMENTAL INFORMATION TO COMPLETE THE CONTRACTED SCOPE OF WORK OUTLINED IN THE OWNER/CONTRACTOR AGREEMENT, THE PROJECT MANUAL, THE ARCHITECTURAL, ELECTRICAL AND SECURITY CONSTRUCTION DRAWINGS AND ALL AGENDA AND MODIFICATIONS ISSUED BY THE ARCHITECT. BUILDING TELECOMMUNICATION DRAWINGS ARE TO BE USED IN CONJUNCTION WITH THE PROJECT MANUAL, THE ARCHITECTURAL, ELECTRICAL, AND SECURITY DRAWINGS AND ALL ADDENDA AND MODIFICATIONS BY THE ARCHITECT TO DEFINE THE SCOPE OF WORK IN THIS CONTRACT.

ALL WORK MUST BE COORDINATED WITH THE DRAWINGS AND SPECIFICATIONS PREPARED FOR OTHER TRADES. REFER TO THE ARCHITECTURAL AND FINAL SHOP DRAWINGS FOR EQUIPMENT BEING FURNISHED UNDER OTHER SECTIONS, AND FOR EXACT LOCATIONS OF OUTLET AND VARIOUS PATHWAY CONNECTIONS REQUIRED.

GENERAL/ELECTRICAL CONTRACTOR SHALL CERTIFY ALL CONDUIT 100% USEABLE IN SIZE AND NATURE AS CALLED OUT IN THE DRAWINGS AND SPECIFICATIONS.

GENERAL/ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE TELECOMMUNICATIONS CONTRACTOR AS REQUIRED DURING THE CONSTRUCTION PERIOD PRIOR TO SUBSTANTIAL COMPLETION OF HIS WORK.

WORK IN THIS CONTRACT INCLUDES PROCUREMENT AND PLACEMENT OF ALL MANHOLES, PULLBOXES, CONDUITS, BACK BOXES, ELECTRICAL WORK, PULL STRINGS, SLEEVES, CORES, RACEWAYS, CABLE TRAY, GROUND BUSSES, ACCESS FLOORING, PLYWOOD, ASSOCIATED HARDWARE AND CONNECTION TO EQUIPMENT TO EQUIPMENT PROVIDED BY OTHERS.

ALL CONDUIT WORK SHALL BE CONCEALED UNLESS SHOWN OTHERWISE. A 3/8" PULL-ROPE ALONG WITH A 1/8" MEASURING TAPE SHALL BE PROVIDED IN ALL EMPTY CONDUITS. INTRA-BUILDING COMMUNICATION CONDUITS SHALL BE RIGID OR EMT TYPE. INTRA-BUILDING CONDUIT ENDS SHALL BE FITTED WITH PLASTIC BUSHINGS.

EXACT ROUTING OF CONCEALED CONDUITS SHALL BE DETERMINED IN COOPERATION WITH OTHER TRADES TO SIMPLIFY INSTALLATION WHEREVER POSSIBLE, BUT SUBJECT TO THE APPROVAL OF THE ARCHITECT FOR VISUAL AND STRUCTURAL REASONS.

ALL CONDUIT RUNS FROM THE WORK AREA LOCATION TO CABLE TRAYS OR ASSOCIATED TELECOMMUNICATION ROOMS SHALL BE IN 1" CONDUIT UNLESS OTHERWISE NOTED. LIMIT ALL RUNS TO 180 DEGREE BENDS. MINIMUM BEND RADIUS SHALL BE 6 TIMES THE DIAMETER OF THE CONDUIT.

ALL OUTLET BOXES SHALL BE LOCATED IN PERMANENTLY ACCESSIBLE AREAS. PULLBOXES SHALL BE ATTACHED TO STRUCTURAL WALLS USING APPROVED FASTENERS. LOCATIONS SHALL BE COORDINATED WITH ARCHITECT.

AREAS WITHIN SOME BUILDINGS MAY UTILIZE A RAISED FLOOR FOR ROUTING OF POWER AND COMMUNICATION CABLES. THESE AREAS WILL HAVE EITHER WALL OUTLET BOXES WITH CONDUIT STUB DOWNS OR POKE-THROUGH FLUSH FLOOR MONUMENTS WITH OUTLETS THAT ACCESS THE RAISED FLOOR AREA. THE LAYOUT OF ALL COMMUNICATION OUTLETS IN THE RAISED FLOOR AREAS SHALL BE COORDINATED WITH POWER OUTLETS. LOCATION OF FLOOR MONUMENTS OR POKE-THROUGH DEVICES SHALL BE SUBMITTED FOR ARCHITECTURAL REVIEW PRIOR TO INSTALLATION OF CABLING.

LEGEND & SYMBOLS

ADDITIONAL SYMBOLS MAY BE SHOWN ON INDIVIDUAL DRAWING SHEETS AS THEY RELATE TO THE SCOPE OF WORK DEPICTED ON THAT SPECIFIC SHEET. IF THERE IS CONFLICTS BETWEEN THE SYMBOLS OR DEFINITIONS NOTIFY THE DESIGN CONSULTANT FOR CLARIFICATION.

- ▲ VOICE OUTLET (1) PORT W/ (1) 4 PAIR VOICE CABLE
- ▲ W VOICE OUTLET (WALL MOUNT) - (1) PORT W/ (1) 4 PAIR VOICE CABLE RUN TO ASSOCIATED COMM. ROOM AS INDICATED. PROVIDE 3/4" CONDUIT TO COMM. ROOM OR NEAREST CABLETRAY.
- ▲ TV TV OUTLET - (1) RG-6 COAXIAL CABLE W/ F CONNECTOR RUN TO ASSOCIATED COMM. ROOM AS INDICATED. PROVIDE 3/4" CONDUIT TO COMM. ROOM OR NEAREST CABLETRAY. TERMINATE IN COMM. ROOM ON MULTI-PORT SPLITTER SIZED TO ACCOMMODATE ALL CATV DROPS. COORDINATE WITH OWNER'S REPRESENTATIVE AND/OR BROADBAND PROVIDER.
- ▲ VOICE/DATA OUTLET (HARDWALL/RACEWAY) - (2) VOICE PORTS AND (2) DATA PORTS W/ (2) 4 PAIR VOICE CABLES AND (2) 4 PAIR DATA CABLES RUN TO ASSOCIATED COMM. ROOM AS INDICATED. PROVIDE 1" CONDUIT TO COMM. ROOM OR NEAREST CABLETRAY.
- ▲ (n) VOICE/DATA OUTLET (HARDWALL/RACEWAY) - (2) VOICE PORTS AND (n) DATA PORTS W/ (2) 4 PAIR VOICE CABLES AND (n) 4 PAIR DATA CABLES RUN TO ASSOCIATED COMM. ROOM AS INDICATED. PROVIDE 1" CONDUIT TO COMM. ROOM OR NEAREST CABLETRAY.
- ▲ (n) DATA ONLY OUTLET (HARDWALL/RACEWAY) - (n) DATA PORTS W/ (n) 4 PAIR DATA CABLES RUN TO ASSOCIATED COMM. ROOM AS INDICATED. PROVIDE 1" CONDUIT (U.O.N.) TO COMM. ROOM OR NEAREST CABLETRAY. REFER TO SPECIFICATIONS FOR OUTLET CONFIGURATION.
- ▲ VOICE/DATA OUTLET (FLUSH-MOUNT FLOOR-BOX) - (2) VOICE PORTS AND (n) DATA PORTS W/ (2) 4 PAIR VOICE CABLES AND (n) 4 PAIR DATA CABLES RUN TO ASSOCIATED COMM. ROOM AS INDICATED. PROVIDE 1-1/4" CONDUIT TO COMM. ROOM OR NEAREST CABLETRAY.
- ▲ (n) VOICE/DATA OUTLET (FLUSH-MOUNT FLOOR-BOX) - (2) VOICE PORTS AND (n) DATA PORTS W/ (2) 4 PAIR VOICE CABLES AND (n) 4 PAIR DATA CABLES RUN TO ASSOCIATED COMM. ROOM AS INDICATED. PROVIDE 1-1/4" CONDUIT TO COMM. ROOM OR NEAREST CABLETRAY.
- ▲ (n) DATA ONLY OUTLET (FLUSH-MOUNT FLOOR BOX) - (n) DATA PORTS W/ (n) 4 PAIR DATA CABLES RUN TO ASSOCIATED COMM. ROOM AS INDICATED. PROVIDE 1-1/4" CONDUIT TO COMM. ROOM OR NEAREST CABLETRAY.
- ▲ 14 DATA MULTI-USER OUTLET - (14) DATA PORTS W/ (14) 4PR. CABLES AND COMPOSITE OPTICAL FIBER CABLE PLACED THROUGH FLOOR VOID TO FURNITURE SYSTEM AND MOUNTED ON CUSTOM FURNITURE. COORDINATE LOCATION WITH ARCHITECT. REFER TO THE SPECIFICATIONS FOR OUTLET MODULE AND FIBER TERMINATIONS.
- ▲ DATA ONLY OUTLET (CEILING MOUNT) - (2) DATA PORTS W/ (2) 4 PAIR DATA CABLES RUN TO ASSOCIATED COMM. ROOM AS INDICATED. PROVIDE 2S DEEP BOX W/ 1" CONDUIT TO COMM. ROOM OR NEAREST CABLETRAY.
- FT CABLE TRAY (UNDER- FLOOR)
- CT CABLE TRAY (ABOVE CEILING)
- DEPRESSED SLAB AREA
- NOTE: CONDUIT NOTATION ON THIS DRAWING IS FOR REFERENCE ONLY. REFER TO THE APPROPRIATE ELECTRICAL DRAWINGS FOR CONSTRUCTION SPECIFICATIONS.
- 900X --- COPPER CABLE WITH PAIR COUNT
- 48M --- FIBER OPTIC CABLE WITH STRAND COUNT
- X CABLE TERMINATION POINT / BUILDING CROSS CONNECT

APPLICABLE REFERENCES & CODES

COMPLY WITH THE PROVISIONS AND RECOMMENDATIONS OF THE LATEST PUBLICATION OF THE FOLLOWING DOCUMENTS, EXCEPT WHERE MORE STRINGENT DOCUMENTS ARE INDICATED.

- ANSI/TIA/EIA-568-B.1 --- COMMERCIAL TELECOMMUNICATIONS WIRING STANDARD GENERAL REQUIREMENTS: CABLING AND FIELD TESTING
- ANSI/TIA/EIA-568-B.2 --- COMMERCIAL TELECOMMUNICATIONS WIRING STANDARD COPPER REQUIREMENTS: CONNECTORS AND CABLES
- ANSI/TIA/EIA-568-B.3 --- COMMERCIAL TELECOMMUNICATIONS WIRING STANDARD FIBER REQUIREMENTS: CABLING AND FIELD TESTING
- ANSI/TIA/EIA-569-A --- COMMERCIAL BUILDING TELECOMMUNICATIONS PATHWAYS AND SPACES
- ANSI/TIA/EIA-606 --- ADMINISTRATION STANDARD FOR TELECOMMUNICATIONS INFRASTRUCTURE OF COMMERCIAL BUILDINGS
- ANSI/TIA/EIA-607 --- COMMERCIAL BUILDING GROUNDING AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS
- TIA/EIA 570 TSB 72- CENTRALIZED OPTICAL FIBER CABLING GUIDELINES
- TIA/EIA 570 TSB 36- ADDITIONAL CABLE SPECIFICATIONS FOR UNSHELDLED TWISTED PAIR CABLES
- TIA/EIA 570 TSB 40- ADDITIONAL TRANSMISSION SPECIFICATIONS FOR UNSHELDLED TWISTED PAIR CABLES.
- BICSI - TELECOMMUNICATIONS DISTRIBUTION METHODS MANUAL
- NFPA 70 - NATIONAL ELECTRIC CODE
- LOCAL CODES AND ORDINANCES

ABBREVIATIONS

- MDF MAIN DISTRIBUTION FRAME
- IDF INTERMEDIATE DISTRIBUTION FRAME
- TC TELECOMMUNICATION ROOM OR CLOSET
- A.F.F. ABOVE FINISHED FLOOR
- U.O.N. UNLESS OTHERWISE NOTED
- OSP OUTSIDE PLANT
- I.O. INFORMATION OUTLET



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DRAWN: S.G.C.
 CHECKED: S.G.C.
 DATE: 9/24/01
 JOB NO.: 99245
 SHEET TITLE: COMMUNICATIONS SYMBOLS LIST, ABBREVIATIONS, GENERAL NOTES
 SHEET: TC1.0



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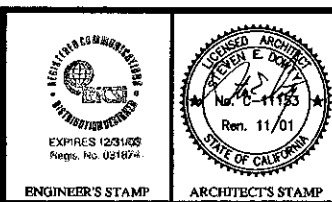
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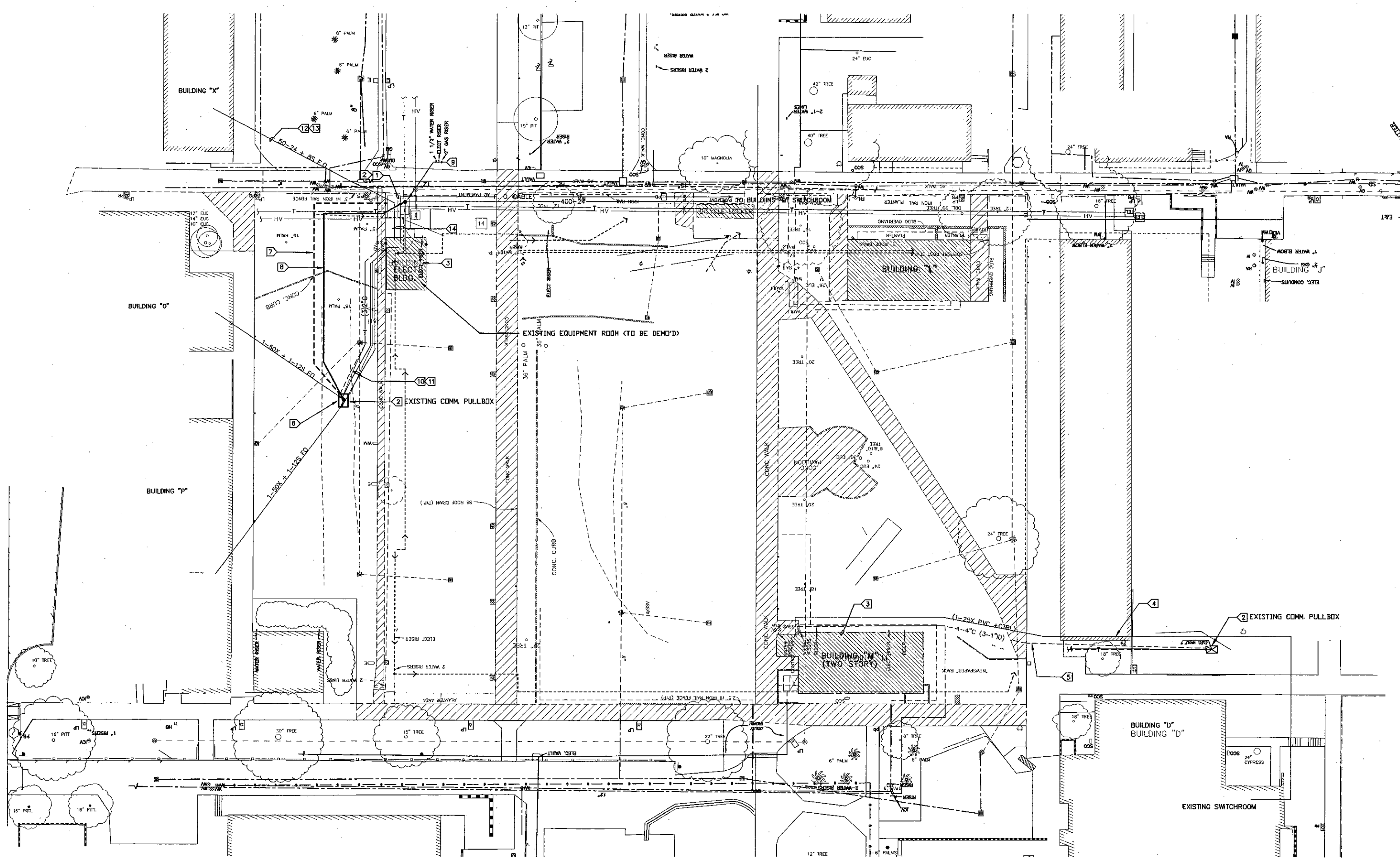
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SHEET TITLE	
SITE COMMUNICATIONS DEMOLITION PLAN	
SHEET	
TC2.0	

SHEET NOTES:

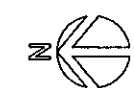
- SCOPE: PROVIDE AND PERFORM DEMOLITION, PREPARATORY AND MISCELLANEOUS WORK IN AREAS AS INDICATED AND SPECIFIED, COMPLETE.
- DEMOLITION AND REMOVAL OF EXISTING COMMUNICATIONS CONDUIT, WIRING AND EQUIPMENT REQUIRED TO COMPLETE THE PROJECT.
- PREPARATION OF THE EXISTING BUILDING TO RECEIVE OR CONNECT THE NEW WORK.
- MISCELLANEOUS DEMOLITION, CUTTING, ALTERATION, AND REPAIR WORK IN THE EXISTING BUILDINGS NECESSARY FOR THE COMPLETION OF THE ENTIRE PROJECT.
- DISCONNECTING AND RECONNECTION OF COMMUNICATIONS EQUIPMENT AND CABLING (COPPER AND OPTICAL FIBER) AS REQUIRED BY THE CONSTRUCTION MODIFICATIONS.
- EXISTING CONDITIONS: PRIOR TO BID MAKE A DETAILED SURVEY OF THE EXISTING CONDITIONS PERTAINING TO THE WORK. CHECK THE LOCATIONS OF ALL EXISTING STRUCTURES, EQUIPMENT AND CABLING. CHECK FOR ANY HAZARDOUS MATERIALS WHICH MAY REQUIRE SPECIAL HANDLING.
- SALVAGE AND DISPOSAL: ALL REMOVED MATERIAL OTHER THAN ITEMS TO BE REUSED SHALL BE RETURNED TO THE OWNER OR DISPOSED OF IN ACCORDANCE WITH INSTRUCTIONS FROM THE OWNER'S REPRESENTATIVE. DISPOSAL SHALL BE DONE IN ACCORDANCE WITH EPA AND GOVERNING BODY REQUIREMENTS AND REGULATIONS. CONTRACTOR SHALL PAY ALL FEES AND CHARGES FOR DISPOSAL.
- TWO WEEKS PRIOR TO START OF ANY WORK, CONTRACTOR SHALL SCHEDULE ALL WORK AND COMMUNICATIONS SYSTEM DISCONNECTS WITH OWNER'S REPRESENTATIVE. WRITTEN APPROVAL REQUIRED PRIOR TO ANY SYSTEM OUTAGES.
- CONTRACTOR SHALL LEAVE ALL COMMUNICATIONS CIRCUITS ENERGIZED TO DEVICES IN AREAS OUTSIDE OF DEMOLITION AREA EVEN IF SYSTEMS ARE ROUTED THROUGH DEMOLITION AREA. ALL EXISTING SUBSTRUCTURES AND FACILITIES SHALL BE PROTECTED IN PLACE UNLESS OTHERWISE NOTED.

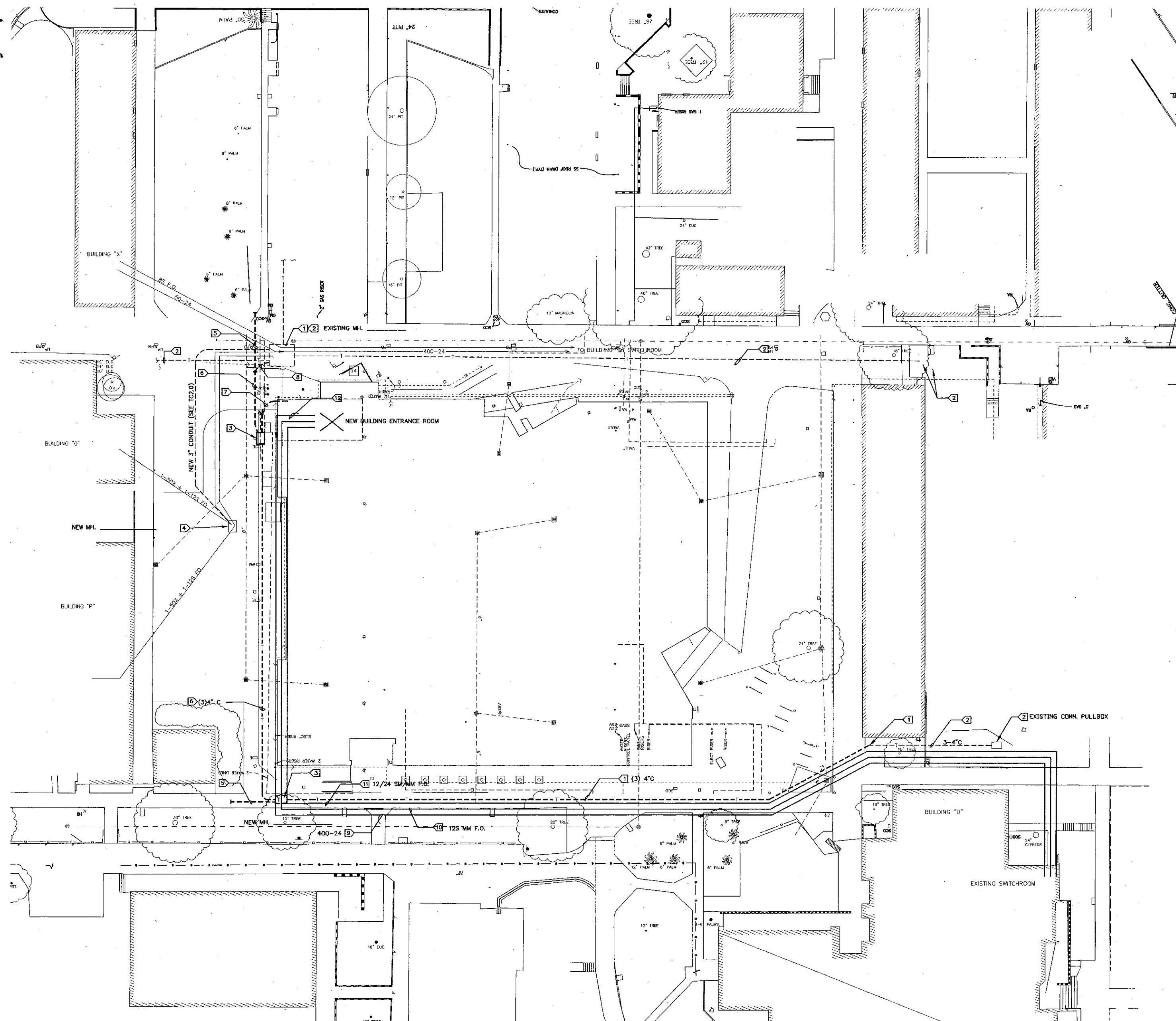
KEY NOTES:

- APPROXIMATE BELOW GRADE OUTLINE OF MANHOLE OR CONDUIT. FIELD VERIFY LOCATION AND PROJECT IN PLACE.
- EXISTING POWER OR TELECOM MANHOLE, PROJECT IN PLACE.
- DISCONNECT, REMOVE, AND DISPOSE OF ALL EXISTING COMMUNICATIONS SYSTEMS HARDWARE WITHIN BUILDING DEMOLITION AREA.
- REMOVE 25 PAIR TEL. CABLE AND MISC. CONTROL CABLES FROM BUILDING TO SWITCHROOM.
- REMOVE EXISTING 3-1" INNERDUCT FROM BUILDING TO PULLBOX. 4" CONDUITS TO BE INTERCEPTED DURING CONSTRUCTION PHASE.
- REPLACE EXISTING PULLBOX WITH 2'x3' INTERCEPT PULLBOX. INTERCEPT EXISTING CONDUITS AND CABLES. USE CAUTION WHEN WORKING AROUND EXISTING CABLES. SEE ELECTRICAL DRAWINGS FOR CONSTRUCTION DETAILS.
- PLACE 3" CONDUIT FROM EXISTING TEL MANHOLE TO NEW INTERCEPT PULLBOX.
- PLACE NEW 100-24 TEL. CABLE FROM EXISTING TEL MANHOLE TO NEW INTERCEPT PULLBOX.
- IN EXISTING TEL. MANHOLE, SPLICE (1/2 TAP) NEW 100-24 CABLE TO EXISTING 400-24 FEED CABLE IN PREPARATION FOR TRANSFER OF EXISTING 50X CABLES FEEDING BUILDINGS "P" AND "Q".
- DISCONNECT AND BACK-PULL EXISTING 50X CABLES (BLDG. "P" AND "Q" FEEDS) FROM EQUIPMENT ROOM TO NEW INTERCEPT PULLBOX. COMPLETE TRANSFER TO NEW 100X CABLE.
- DISCONNECT EXISTING 12 STRAND F.O. CABLE (BLDG. "P" AND "Q" FEEDS) AND REROUTE THROUGH NEW 3" CONDUIT TO EXISTING TEL MANHOLE. BACK-PULL EXISTING FEED CABLE AND SPLICE WORKING CIRCUITS IN EXISTING TEL MANHOLE.
- RE-ROUTE EXISTING 8 STRAND OPTICAL FIBER CABLE FROM EQUIPMENT ROOM TO BUILDING "X" DIRECTLY FROM TEL MANHOLE. RE-TERMINATE WITH "ST" TYPE OPTICAL CONNECTORS. SPLICE IN TEL MANHOLE AS REQUIRED.
- SPLICE EXISTING 50-24 BUILDING "X" TEL CABLE TO EXISTING 400-24 TEL CABLE.
- PROVIDE RE-ROUTE OF ANY REMAINING LOW VOLTAGE COMMUNICATIONS CABLES IN PREPARATION OF EQUIPMENT ROOM DEMOLITION.



SITE COMMUNICATIONS DEMOLITION PLAN ①
SCALE: 1" = 20'-0"





SITE COMMUNICATIONS PLAN ①
SCALE: 1" = 20'-0"

SHEET NOTES:

1. VERIFY LOCATION OF ALL BUILDINGS AND APPENDICES ON ARCHITECTURAL AND CIVIL PLANS.
2. CONTRACTOR SHALL VERIFY LOCATION & REQUIREMENTS OF ALL COMMUNICATIONS SYSTEMS EQUIPMENT PRIOR TO BID, ROUGH-IN & INSTALLATION.
3. FIELD VERIFY LOCATION OF AND PROTECT ALL UNDERGROUND UTILITIES PRIOR TO TRENCHING. SCHEDULE AND COORDINATE ALL SITE WORK WITH OWNER PRIOR TO ANY TRENCHING. CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ALL COSTS TO REPAIR ANY SYSTEMS DAMAGED DURING THE COURSE OF CONSTRUCTION.
4. ALL CONDUIT RISERS SHALL BE PVC COATED RIGID STEEL.
5. CONTRACTOR SHALL COORDINATE AND PROVIDE ALL SITE COMMUNICATIONS SYSTEMS HARDWARE REQUIREMENTS WITH OWNER.
6. VERIFY LOCATION OF ALL EQUIPMENT AND DEVICES ON ARCHITECTURAL AND CIVIL PLANS.
7. MINIMUM COMMUNICATIONS CONDUIT BURIAL DEPTH IS 30" MINIMUM BELOW FINISHED GRADE.
8. COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL COMMUNICATIONS SYSTEMS CONNECTIONS, HARDWARE, AND CABLING REQUIRED WHETHER SHOWN ON COMMUNICATIONS DRAWINGS OR NOT.

KEY NOTES:

- ① INTERCEPT EXISTING (3) 4" C.O. TELECOM DUCT BANK AND EXTEND.
- ② CONTRACTOR SHALL FIELD VERIFY LOCATION OF ALL EXISTING POWER & TELECOM SYSTEMS AND PROTECT IN PLACE. CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ALL COSTS TO REPAIR ANY SYSTEMS DAMAGED DURING THE COURSE OF CONSTRUCTION.
- ③ NEW 4' X 6' 6" X 6' 6" MANHOLE REFER TO ELECTRICAL DRAWINGS FOR CONSTRUCTION DETAILS.
- ④ NEW 2' X 3' INTERCEPT PULLBOX. SEE TC2.0 AND ELECTRICAL DRAWINGS FOR CONSTRUCTION DETAILS.
- ⑤ NEW (2) 4" CONDUIT STUBBED OUT FOR FUTURE USE. REFER TO ELECTRICAL DRAWINGS FOR CONSTRUCTION DETAILS.
- ⑥ NEW (3) 4" CONDUIT. SEE ELECTRICAL DRAWINGS FOR CONSTRUCTION DETAILS.
- ⑦ NEW (3) 4" CONDUITS FROM NEW MANHOLE TO NEW ENTRANCE ROOM. SEE ELECTRICAL DRAWINGS FOR CONSTRUCTION DETAILS.
- ⑧ NEW (1) 4" CONDUIT FROM NEW MANHOLE TO EXISTING TEL. MANHOLE.
- ⑨ NEW 400-24 (TYPE PE-39) TEL. CABLE HOME-RUN FROM EXISTING BUILDING "D" SWITCHROOM TO NEW TEL. MANHOLE.
- ⑩ NEW 12 STRAND MULTI-MODE OPTICAL FIBER CABLE FROM EXISTING BUILDING "D" SWITCHROOM TO NEW BUILDING ENTRANCE ROOM (FOR CAMPUS EMS SYSTEM).
- ⑪ NEW 12/24 STRAND COMPOSITE SINGLE-MODE/MULTIMODE CABLE HOME-RUN FROM EXISTING BUILDING "D" SWITCHROOM TO NEW BUILDING ENTRANCE ROOM.
- ⑫ PLACE NEW 300-24 (TYPE PE-39) TEL. CABLE FROM NEW MANHOLE TO NEW BUILDING ENTRANCE ROOM. SPLICE TO NEW 400-24 CABLE.



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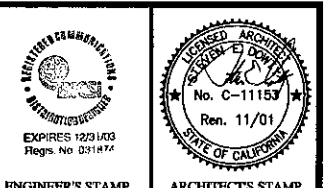
THIERRY H. CASSAN
PROJECT DESIGNER

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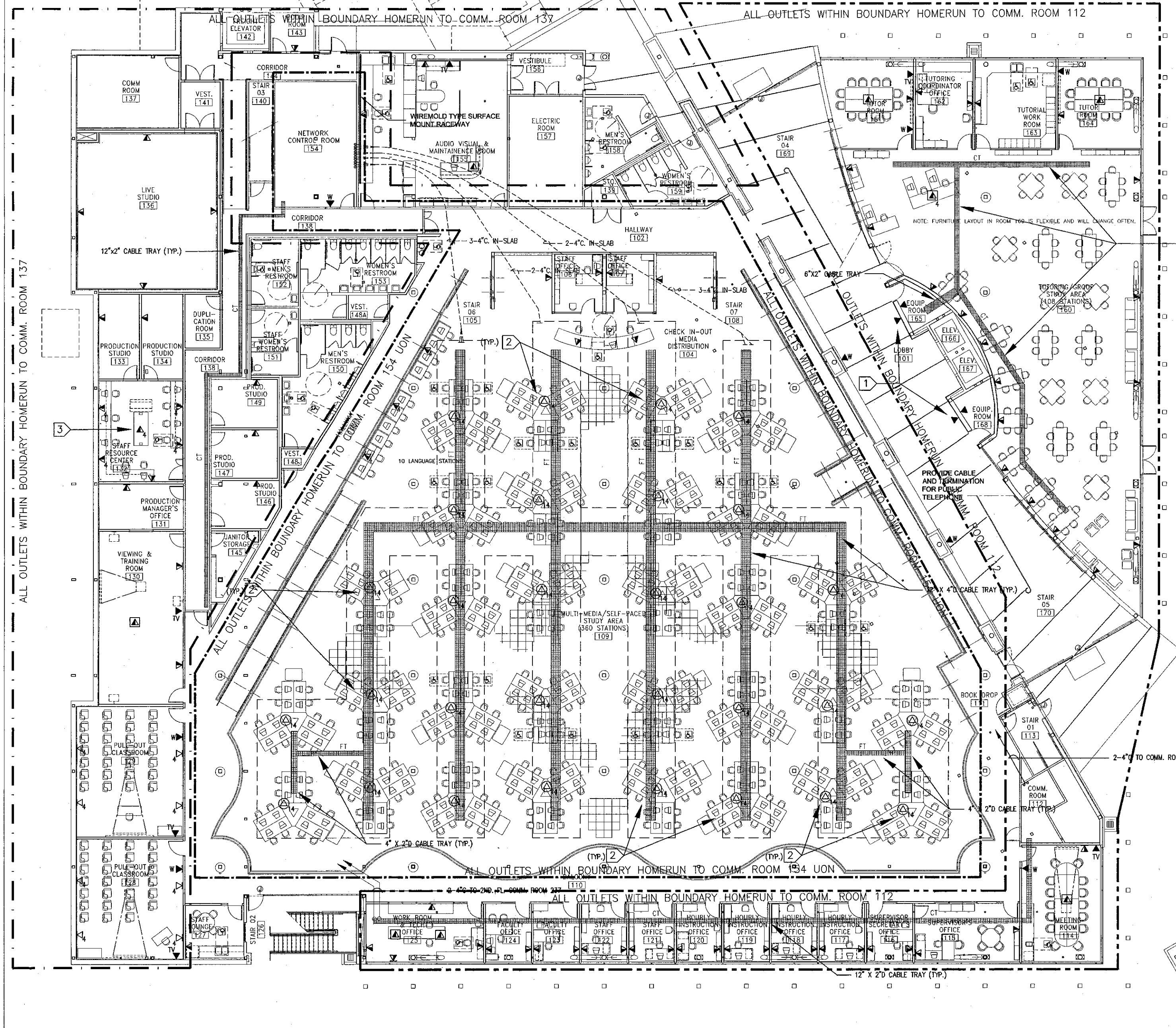
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SHEET TITLE
SITE COMMUNICATIONS PLAN

SHEET
TC2.1

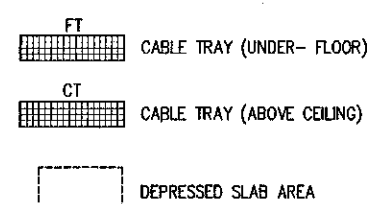


GENERAL NOTES

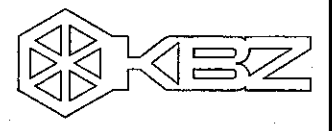
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- ALL OUTLET LOCATIONS SHOWN ARE APPROXIMATE. VERIFY LOCATION AND EXACT LAYOUT WITH ARCHITECT PRIOR TO CONSTRUCTION.

SHEET NOTES

- PROVIDE VOICE CABLE AND TERMINATION FOR PUBLIC TELEPHONE. COORDINATE INSTALLATION WITH PUBLIC SERVICE PROVIDER AND OWNER'S REPRESENTATIVE.
- DATA MULTI-USER OUTLET - (14) DATA PORTS W/ (14) 4PR. CABLES AND COMPOSITE OPTICAL FIBER CABLE PLACED THROUGH FLOOR VOID TO FURNITURE SYSTEM AND MOUNTED ON CUSTOM FURNITURE. EACH FURNITURE CLUSTER WILL HAVE 14 COPPER TERMINATIONS AND 12 MULTIMODE OPTICAL FIBER TERMINATIONS, MOUNTED IN CUSTOM OUTLET HOUSINGS PROVIDED BY FURNITURE MANUFACTURER. REFER TO THE ARCHITECT'S FURNITURE DRAWINGS AND THE SPECIFICATIONS FOR INSTALLATION REQUIREMENTS.
- VOICE/DATA OUTLET MOUNTED IN CUSTOM CABINET. COORDINATE INSTALLATION WITH ARCHITECT AND FURNITURE VENDOR.



NOTE: CONDUIT NOTATION ON THIS DRAWING IS FOR REFERENCE ONLY. REFER TO THE APPROPRIATE ELECTRICAL DRAWINGS FOR CONSTRUCTION SPECIFICATIONS.



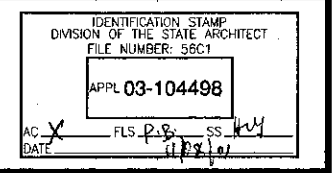
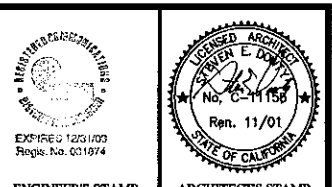
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PROJECT DESIGNER



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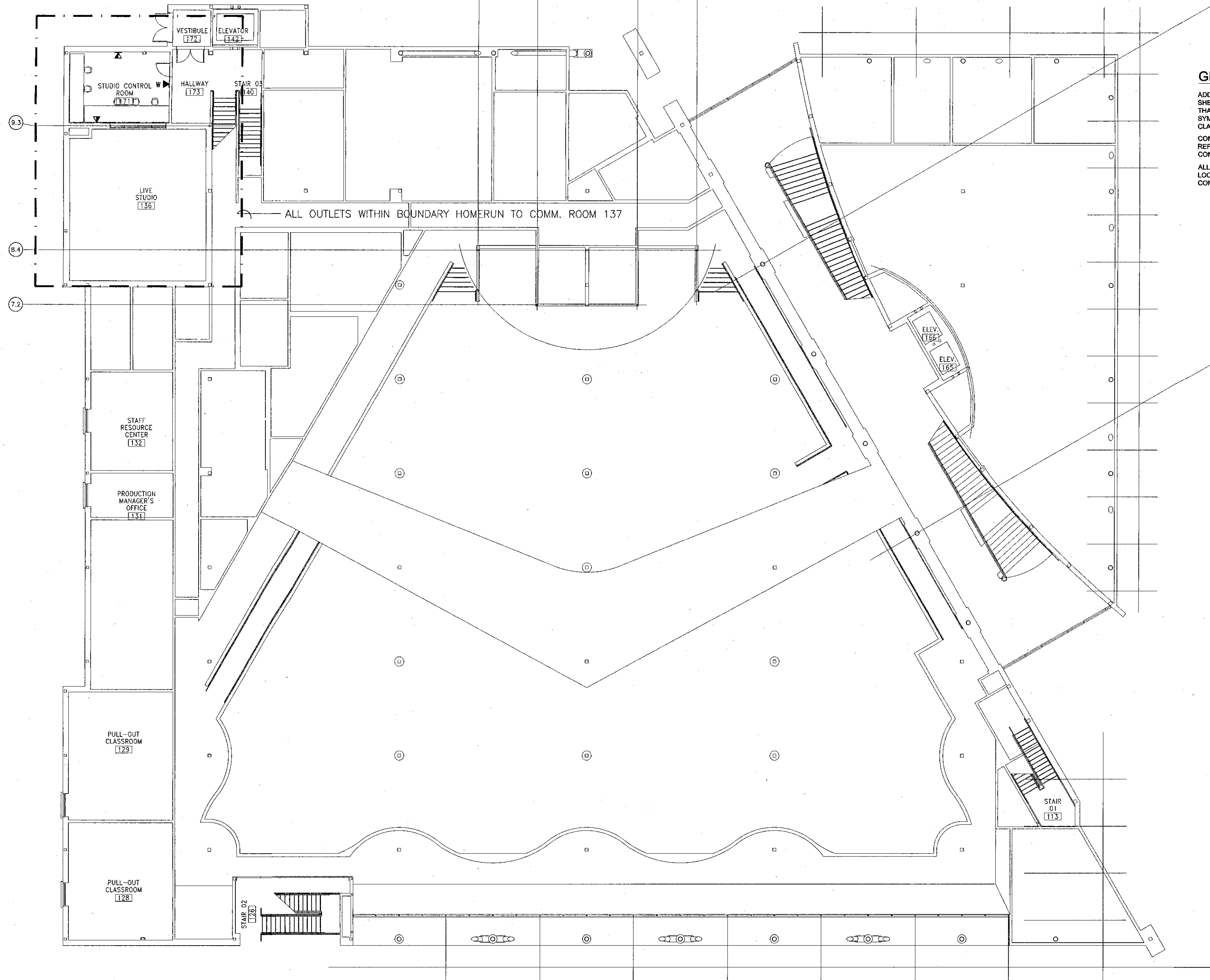


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FIRST FLOOR COMMUNICATIONS PLAN

SHEET: **TC6.1**

FIRST FLOOR COMMUNICATIONS PLAN
SCALE: 1/8" = 1'-0" ①



GENERAL NOTES

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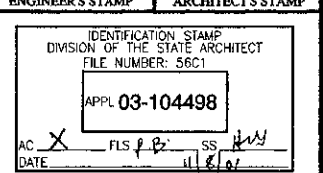
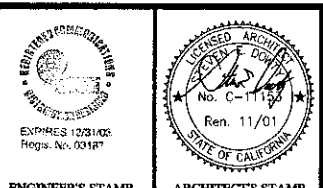
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THIERRY H. CASSAN
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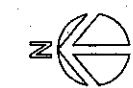
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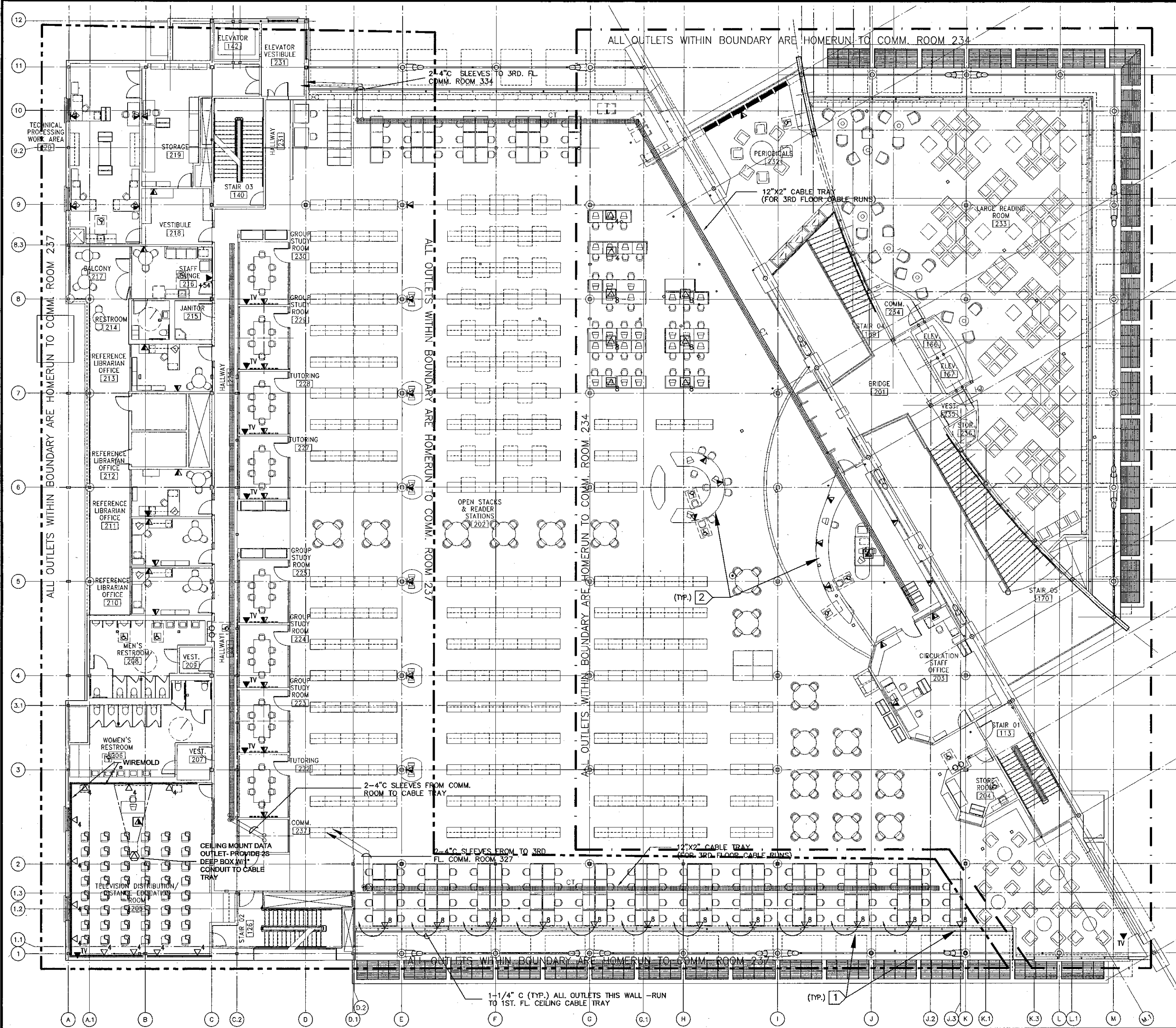


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MEZZANINE FLOOR COMMUNICATIONS PLAN ①
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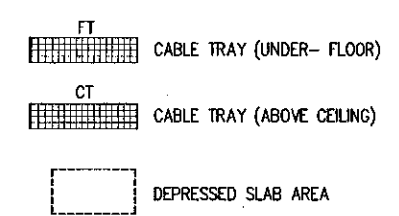


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SHEET NOTES

- 8 PORT MULTI-USER DATA OUTLET. REFER TO THE SPECIFICATIONS FOR MANUFACTURE AND PART NO. COORDINATE INSTALLATION WITH ARCHITECTURAL DRAWINGS AND FURNITURE VENDOR.
- PROVIDE WIRE MANAGEMENT IN CUSTOM CASEWORK RACEWAY (TYP.)



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SECOND FLOOR COMMUNICATIONS PLAN
SCALE: 1/8" = 1'-0" ①

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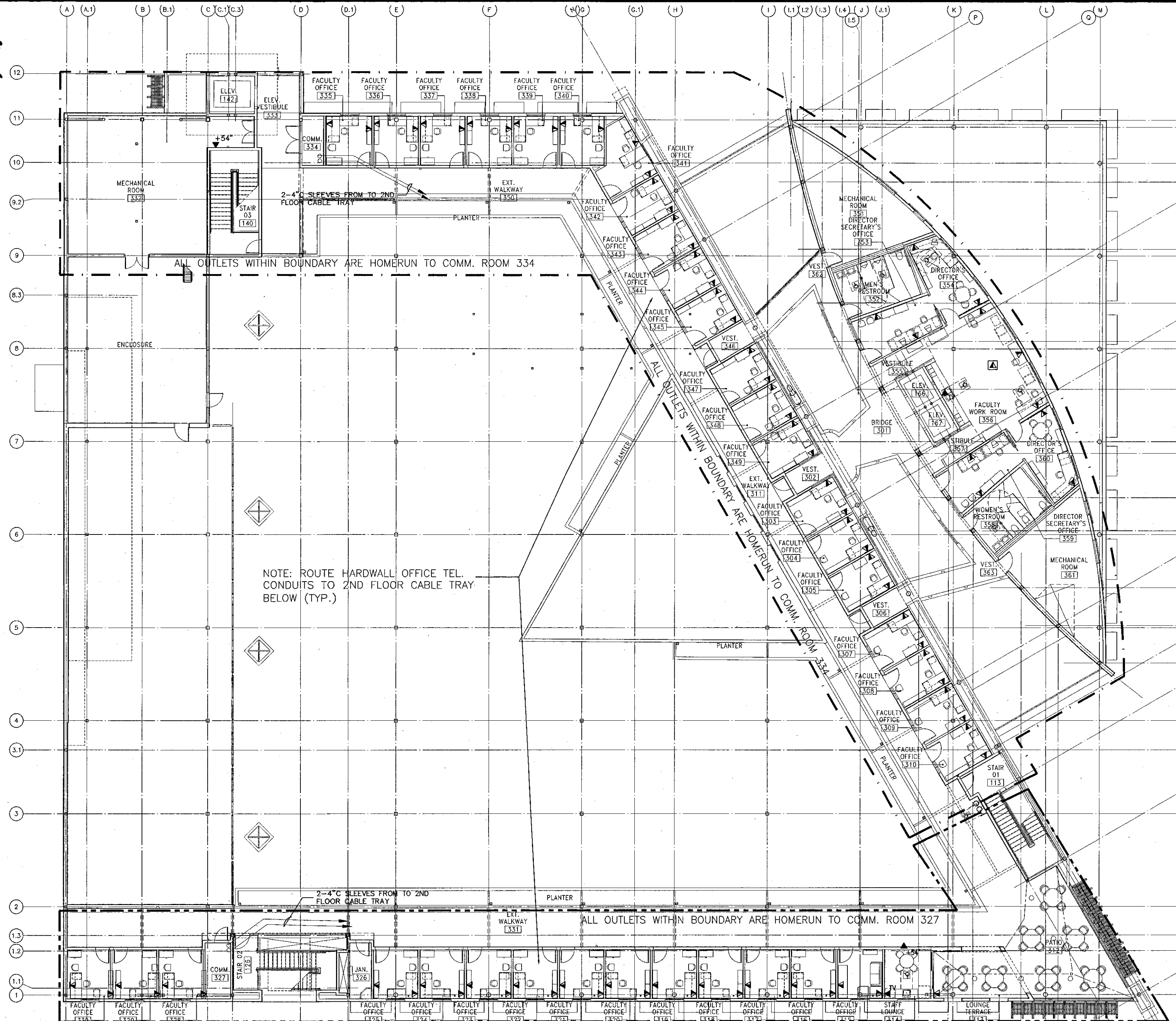
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Ventura County Community College District
4667 Telegraph Road
Ventura, CA 93003

GENERAL NOTES

ADDITIONAL SYMBOLS MAY BE SHOWN ON INDIVIDUAL DRAWING SHEETS AS THEY RELATE TO THE SCOPE OF WORK DEPICTED ON THAT SPECIFIC SHEET. IF THERE ARE CONFLICTS BETWEEN THE SYMBOLS OR DEFINITIONS NOTIFY THE DESIGN CONSULTANT FOR CLARIFICATION.

CONDUITS SHOWN ON TELECOMMUNICATIONS DRAWINGS ARE FOR REFERENCE ONLY. REFER TO THE ELECTRICAL PLANS FOR CONDUIT SPECIFICATIONS AND ROUTING.

ALL OUTLET LOCATIONS SHOWN ARE APPROXIMATE. VERIFY LOCATION AND EXACT LAYOUT WITH ARCHITECT PRIOR TO CONSTRUCTION.

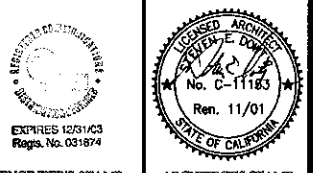
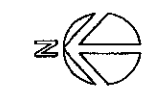


ALL OUTLETS WITHIN BOUNDARY ARE HOMERUN TO COMM. ROOM 334

NOTE: ROUTE HARDWALL OFFICE TEL. CONDUITS TO 2ND FLOOR CABLE TRAY BELOW (TYP.)

ALL OUTLETS WITHIN BOUNDARY ARE HOMERUN TO COMM. ROOM 327

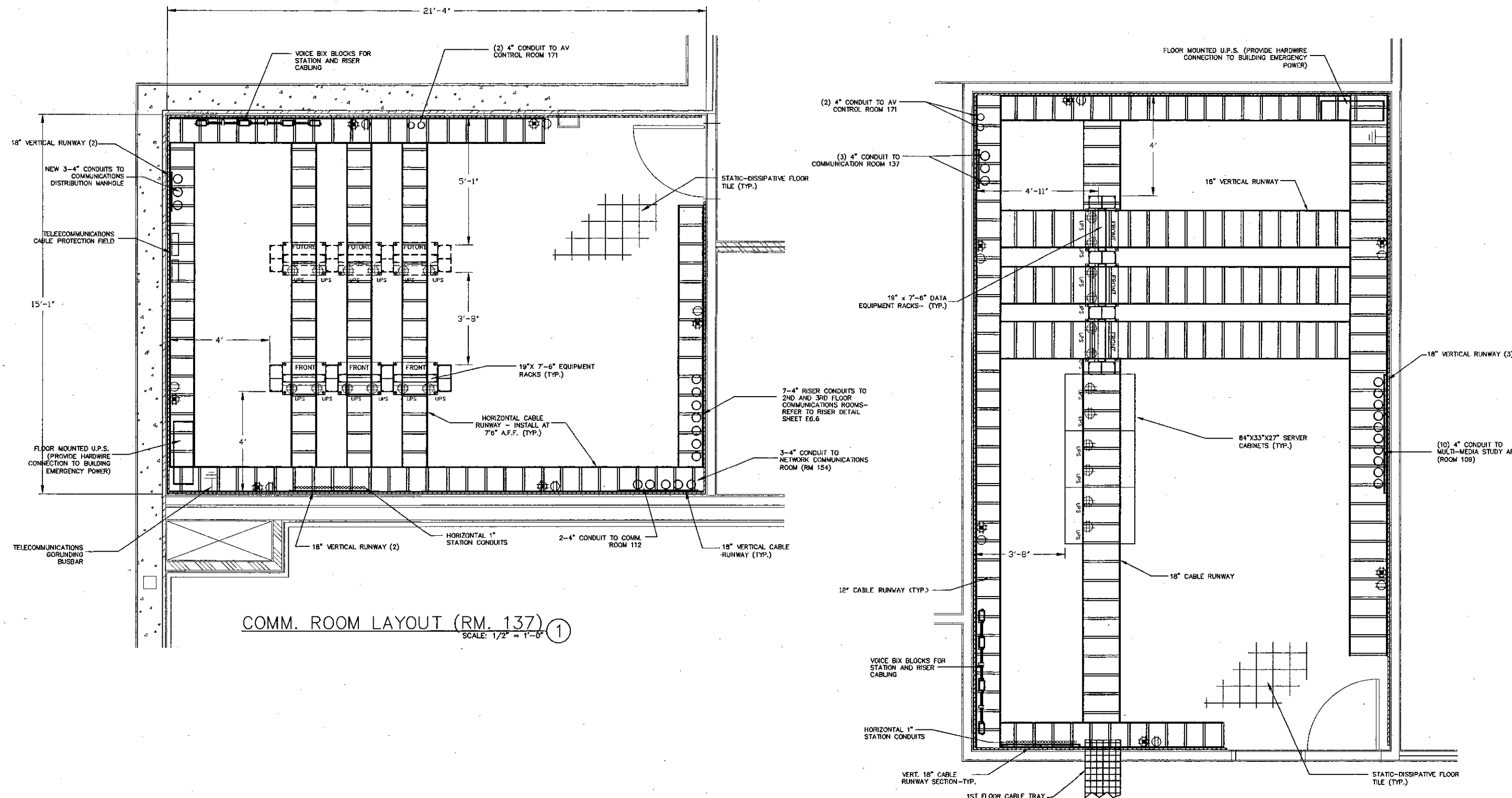
THIRD FLOOR COMMUNICATIONS PLAN ①
SCALE: 1/8" = 1'-0"



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DIVISION OF THE STATE ARCHITECT
FILE NUMBER: SSC1
APPL 03-104498
DATE: 9/24/01

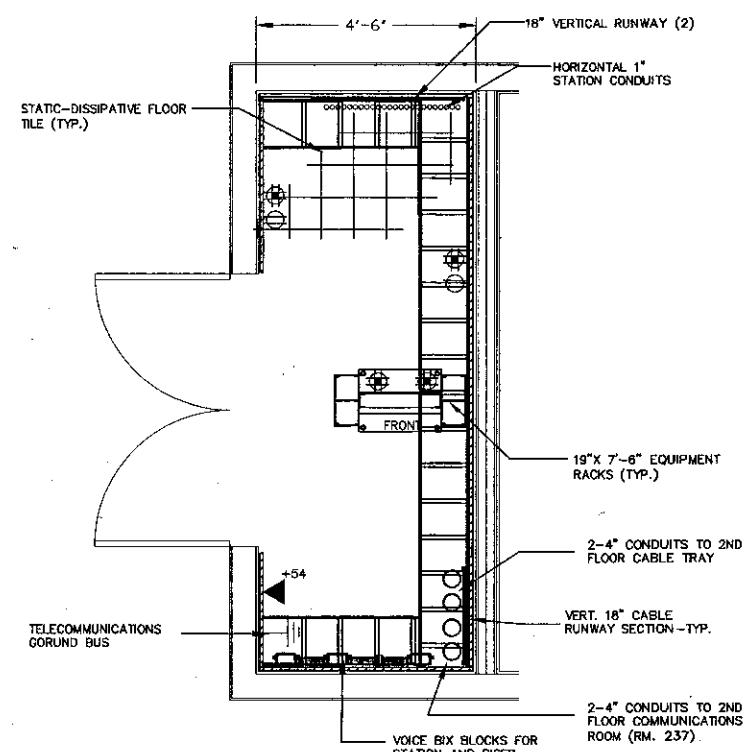
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REVISION			

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JOB NO.	99245
SHEET TITLE	
THIRD FLOOR COMMUNICATIONS PLAN	
SHEET	
TC6.3	

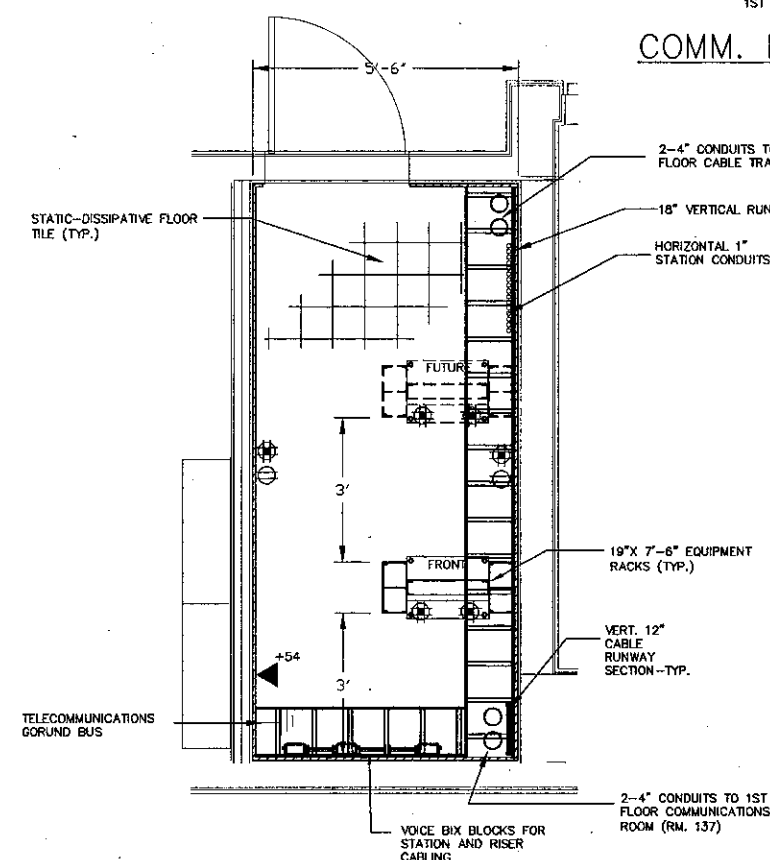


COMM. ROOM LAYOUT (RM. 137) ①
SCALE: 1/2" = 1'-0"

COMM. NETWORK CONTROL ROOM LAYOUT (RM. 154) ②
SCALE: 1/2" = 1'-0"



COMM. ROOM LAYOUT (RM. 334) ③
SCALE: 1/2" = 1'-0"



COMM. ROOM LAYOUT (RM. 327) ④
SCALE: 1/2" = 1'-0"

GENERAL CONTRACTOR NOTES:

PROVIDE AIR CONDITIONING TO MAINTAIN ROOM TEMPERATURE BETWEEN 65 AND 70 DEGREES WITH 45% TO 50% RELATIVE HUMIDITY. THE AIR CONDITIONING SYSTEM MUST BE OF THE NON-CONDENSING TYPE AND IS REQUIRED TO OPERATE 24 HOURS PER DAY, 7 DAYS PER WEEK.

INSTALL LIGHTING TO PROVIDE A MIN. EQUIVALENT OF 540 LUX (50 FOOT-CANDLES) MEASURED 1 m A.F.F. LIGHT FIXTURES MUST BE MOUNTED FLUSH WITH FINISHED CEILING. FURNISH EMERGENCY EGRESS LIGHTING CONSISTENT WITH THE BUILDING STANDARD AND LOCAL CODE.

PROVIDE STATIC DISSIPATIVE TILE, BONDED TO GROUND BUS

PROVIDE OUTWARD SWINGING DOOR, MIN. 96"H X 36"W WITH ACCESS CONTROL AS DEFINED BY COLLEGE SECURITY FOR COMMUNICATIONS ROOMS.

ALL WALLS SHALL BE SHEETED WITH 3/4" AC GRADE, FIRE TREATED PLYWOOD, TO A HEIGHT OF 9- FEET STARTING 1-FOOT A.F.F. ALL PLYWOOD SHALL BE PAINTED CONSISTENT WITH THE ROOM COLOR.

PROVIDE EACH EQUIPMENT RACK WITH TWO (2) QUAD OUTLETS CONTAINING (2) DEDICATED 20-AMP, SINGLE PHASE 110-VOLT CIRCUITS FED FROM THE LOCAL UPS POWER SUPPLY. A MINIMUM OF 20 MIN. RESERVE POWER IS REQUIRED OF THE SERVICE. COORDINATE INSTALLATION OF THE RACK MOUNTED OUTLETS WITH THE LOW VOLTAGE CABLING VENDOR.

PROVIDE CONDUITS THROUGH CEILING AND FLOOR, AS SHOWN, FOR CABLE ACCESS TO ADJACENT COMM. ROOMS AND STATION LOCATIONS. FURNISH ALL SLEEVES AND CONDUITS WITH CHASE NIPPLES FITTED WITH PLASTIC END BUSHINGS.

PROVIDE AN ISOLATED TELECOMMUNICATIONS GROUNDING BUSBAR (MIN. 12"x4"x1/4"), BONDED TO THE SERVICE EQUIPMENT (POWER) GROUND AND TO THE METAL BUILDING FRAME, WITH A MIN. 6 AWG. STRANDED WIRE (GREEN INSULATION). PROVIDE SEPARATE CONDUIT FOR ALL GROUNDING CONDUCTORS.

CABLING CONTRACTOR NOTES:

THE CONTRACTOR, AS PART OF HIS SCOPE OR WORK, SHALL INCLUDE THE FOLLOWING TASKS:

1. PROVIDE AND INSTALL NEW HORIZONTAL CABLING RUNWAY AND VERTICAL RUNWAY AS SHOWN ON THE DRAWINGS. INCLUDE ALL APPROPRIATE MOUNTING HARDWARE AS NEEDED.
2. PROVIDE AND INSTALL NEW 19" DATA EQUIPMENT RACKS, SERVER CABINETS AND VERTICAL WIRE MANAGEMENT AS SHOWN.
3. PROVIDE AND INSTALL ALL NEW RACK AND WALL MOUNTED VOICE/DATA TERMINATION HARDWARE AND ASSOCIATED WIRE MANAGEMENT.

LEGEND & SYMBOLS

- ⊕ 110V/15A SINGLE-GANG POWER OUTLET AT 15" AFF.
- ⊕ 120V/20A DOUBLE-GANG ISOLATED GROUND OUTLET AT 15" AFF. MAXIMUM 4 OUTLETS PER CIRCUIT.
- ⊕ UPS
- ▼ VOICE ONLY OUTLET WITH WALL PHONE.



KRUGER BENSEN ZIEMER ARCHITECTS, INC.
30 W. ARRELLA
SANTA BARBARA, CA 93101
805/965.1726

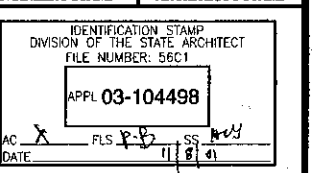
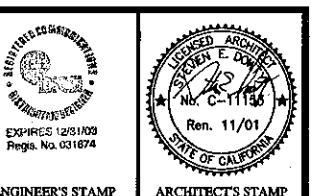
STEVE DOWTY, A.I.A.
PRINCIPAL IN CHARGE

THIERRY H. GASSAN
PROJECT DESIGNER

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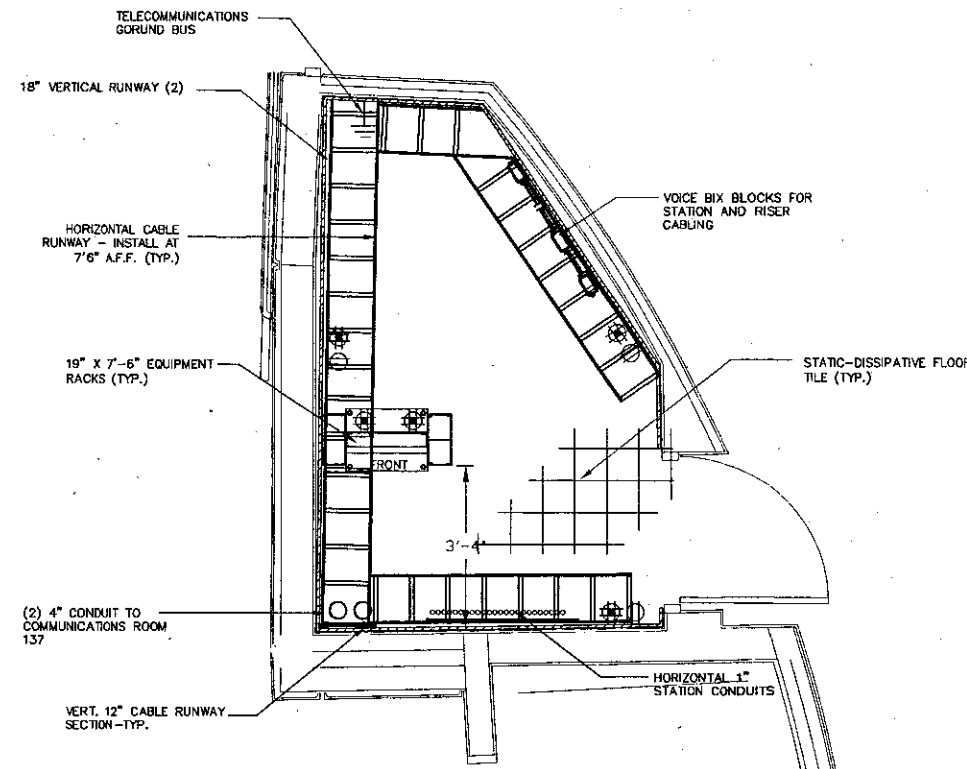


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Ventura, CA 93003
4667 Telegraph Road

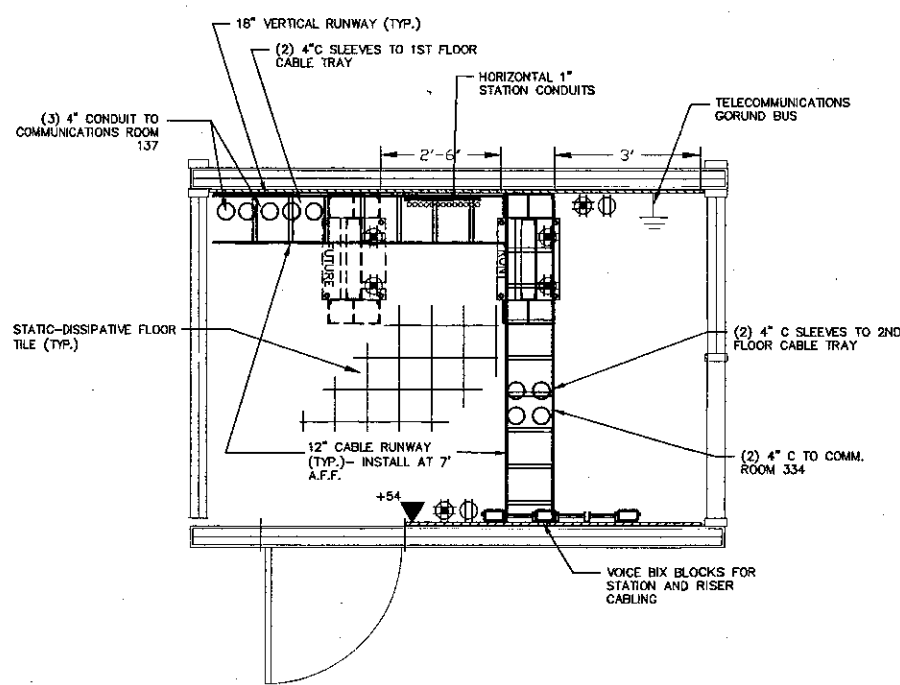


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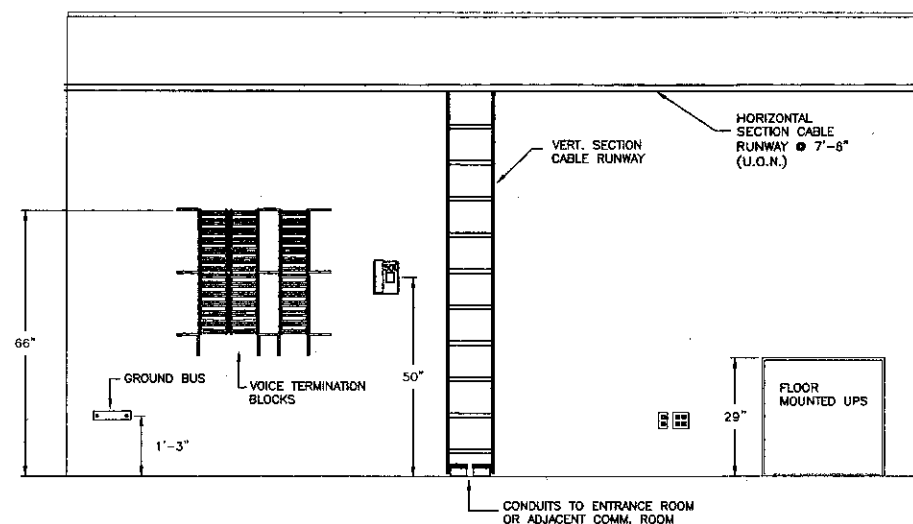
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COMMUNICATIONS ROOMS DETAIL PLAN	
SHEET	
TC6.4	



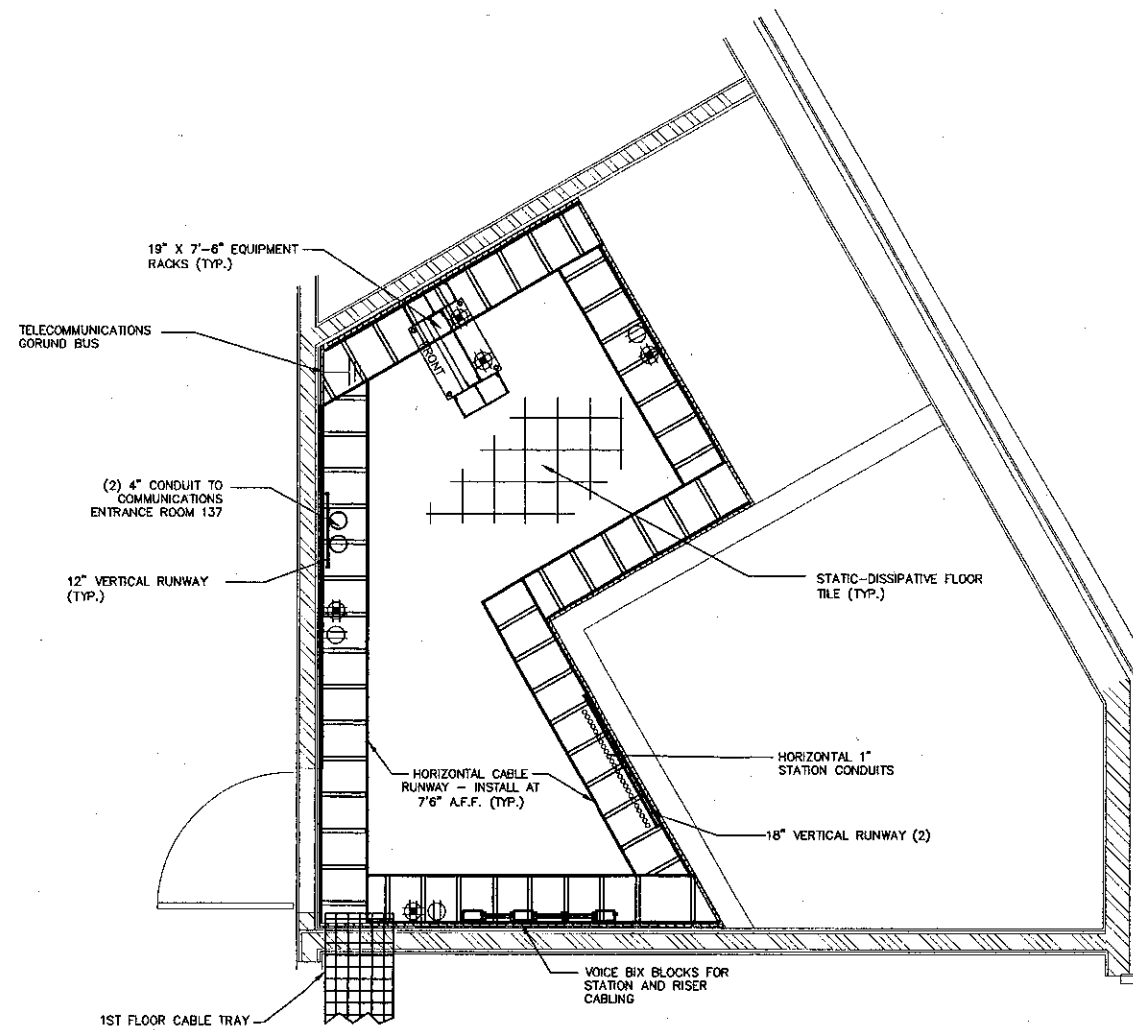
COMM. ROOM LAYOUT (RM. 234) SCALE: 1/2" = 1'-0" ①



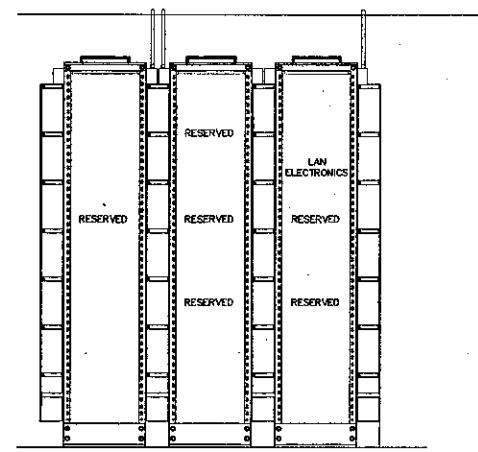
COMM. ROOM LAYOUT (RM. 237) SCALE: 1/2" = 1'-0" ②



VOICE DISTRIBUTION WALL DETAIL (TYPICAL) SCALE: NTS ③

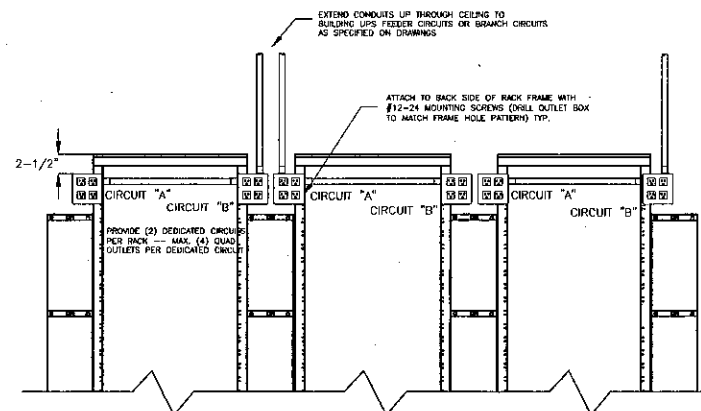


COMM. ROOM LAYOUT (RM. 112) SCALE: 1/2" = 1'-0" ④



EQUIPMENT RACK VERTICAL DETAIL (TYPICAL) SCALE: NTS ⑤

NOTE: REFER TO COMMUNICATION ROOM DETAILS FOR QUANTITY OF RACKS



EQUIPMENT RACK POWER DETAIL (TYPICAL) SCALE: NTS ⑥

NOTE: REFER TO COMMUNICATION ROOM DETAILS FOR QUANTITY OF RACKS

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LEGEND & SYMBOLS

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- ⊕ 120V/20A DOUBLE-GANG ISOLATED GROUND OUTLET AT 15" AFF. MAXIMUM 4 OUTLETS PER CIRCUIT.
- ⊕ UPS UPS OUTLET, FED FROM LOCAL UPS AND MOUNTED TO EQUIPMENT RACK AS DETAILED.
- ▼ VOICE ONLY OUTLET WITH WALL PHONE.



KRUGER BENSON ZIEMER ARCHITECTS, INC. AIA
30 W. ARRELLAGA SANTA BARBARA, CA 93101
805/963.1728 93101

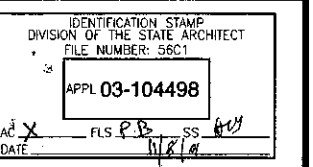
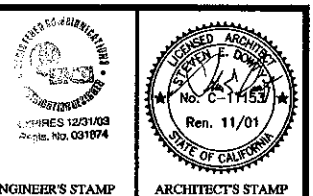
STEVE DOWTY, A.I.A.
PRINCIPAL IN CHARGE

THIERRY H. CASSAN
PROJECT DESIGNER

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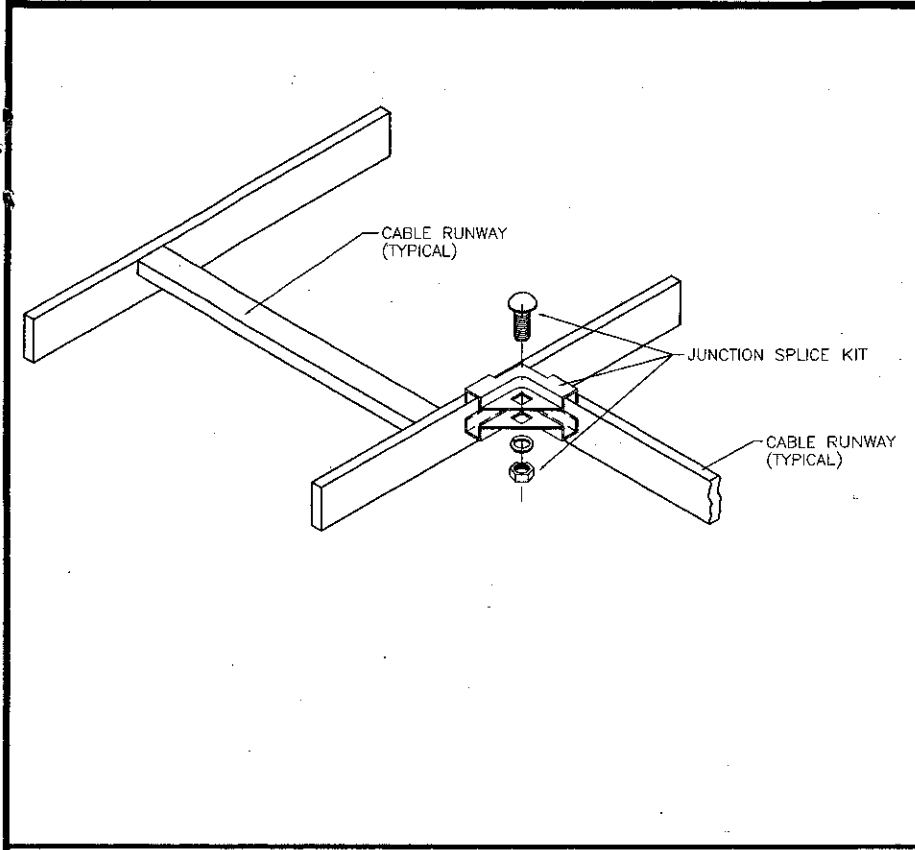
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Ventura County Community College District
Ventura, CA 93003
4667 Telegraph Road



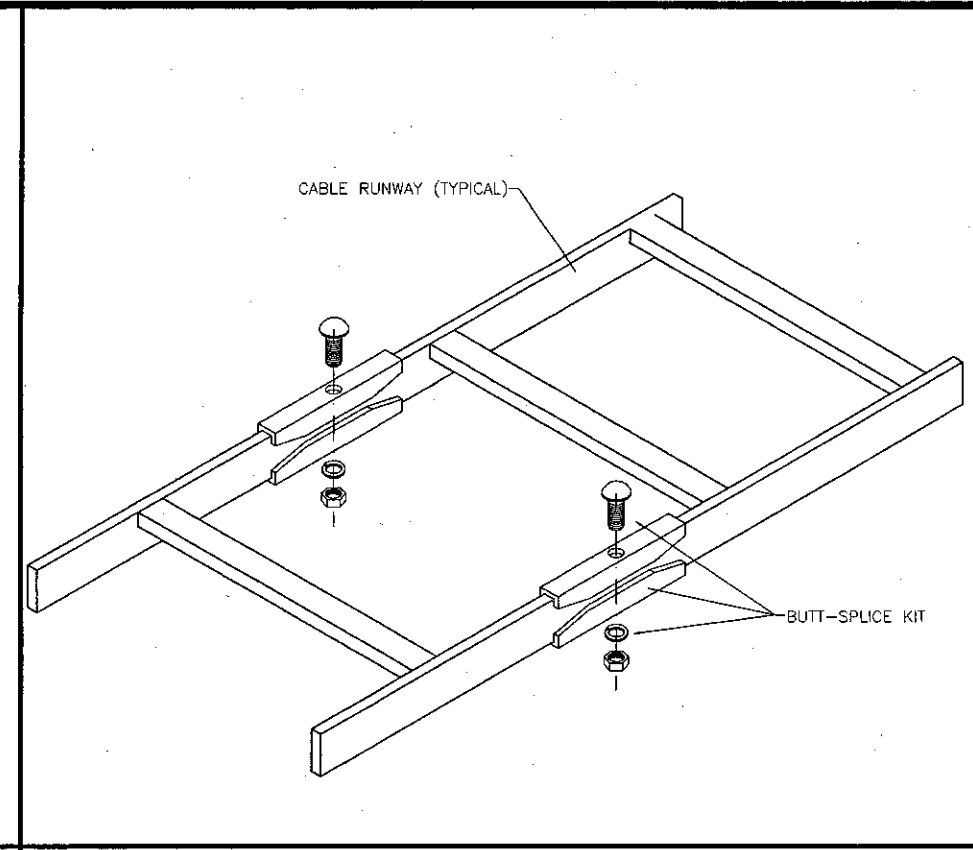
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REVISION		

DRAWN	S.C.C.
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DATE	9/24/01
JOB NO.	89245
SHEET TITLE	COMMUNICATIONS ROOMS AND EQUIPMENT DETAIL PLAN

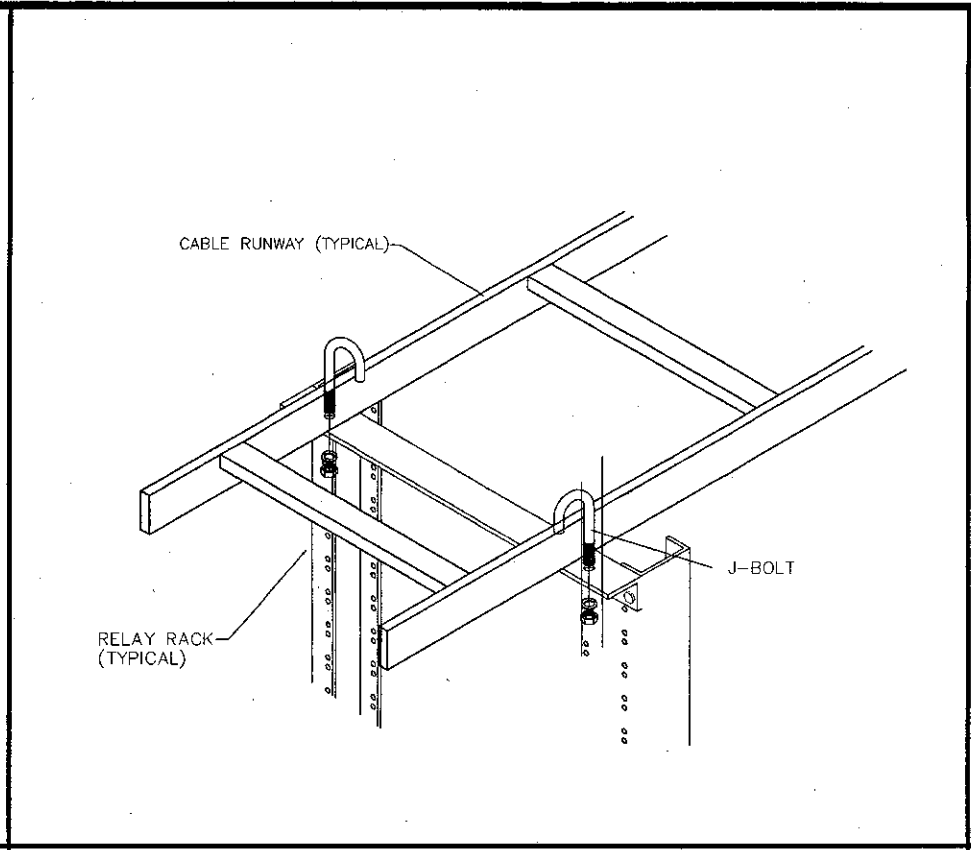
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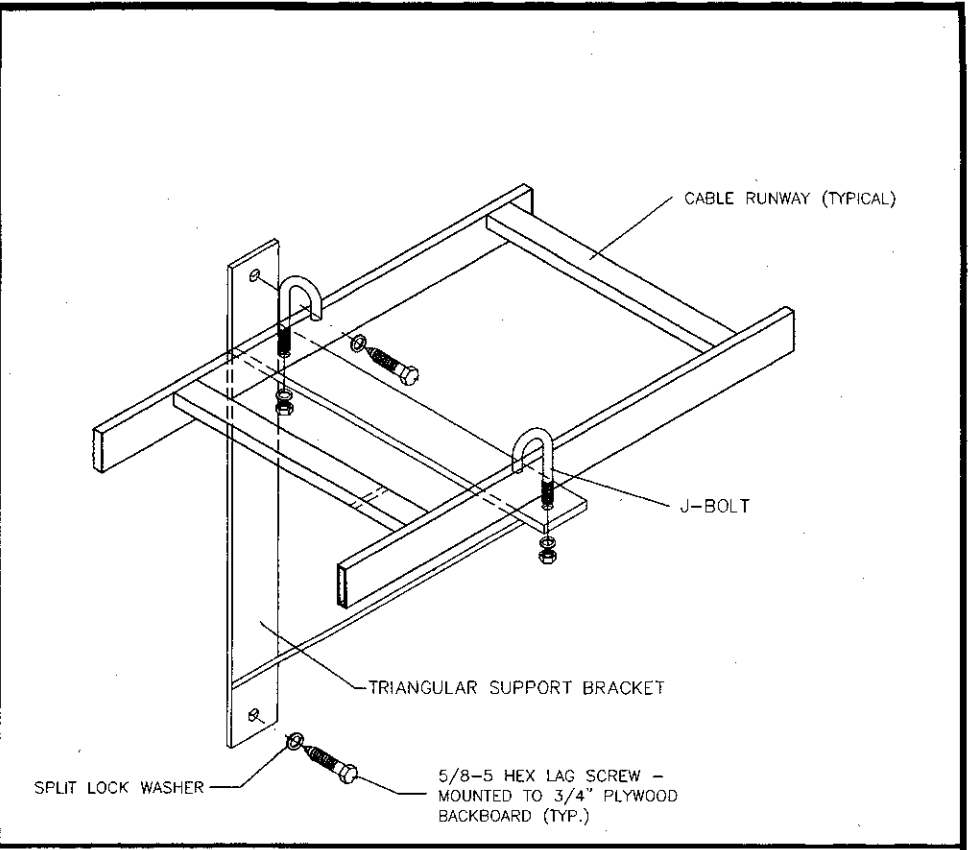
CABLE RUNWAY JUNCTION SPLICE ①



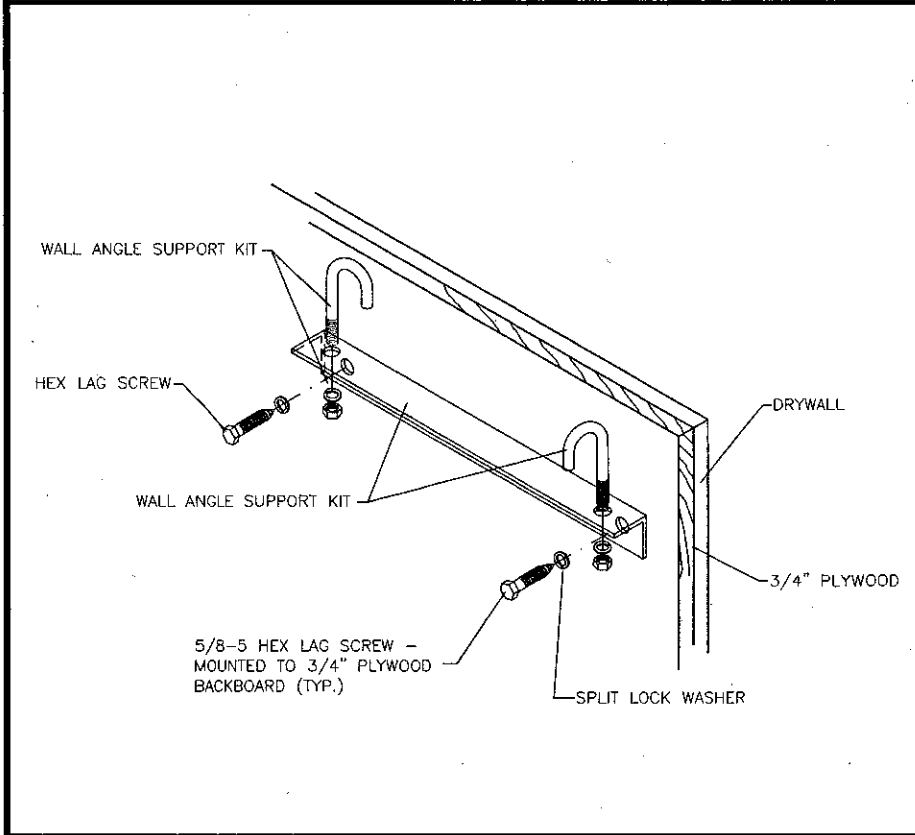
CABLE RUNWAY SECTION SPLICE ②



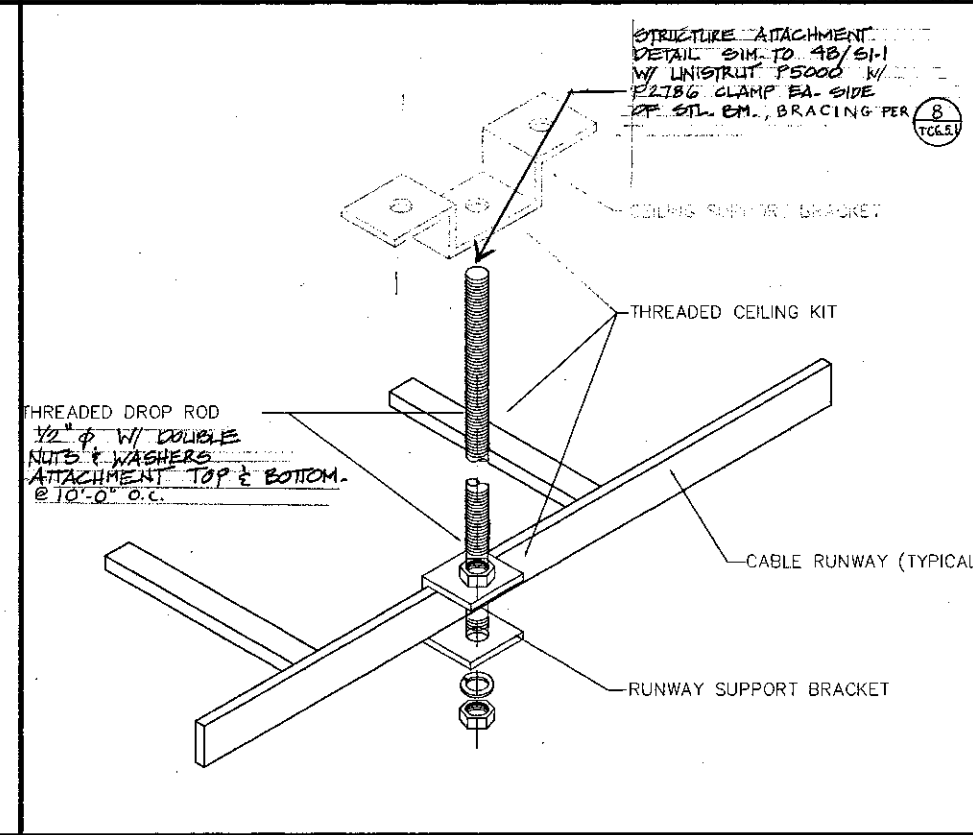
RACK TO CABLE RUNWAY MOUNT DETAIL ③



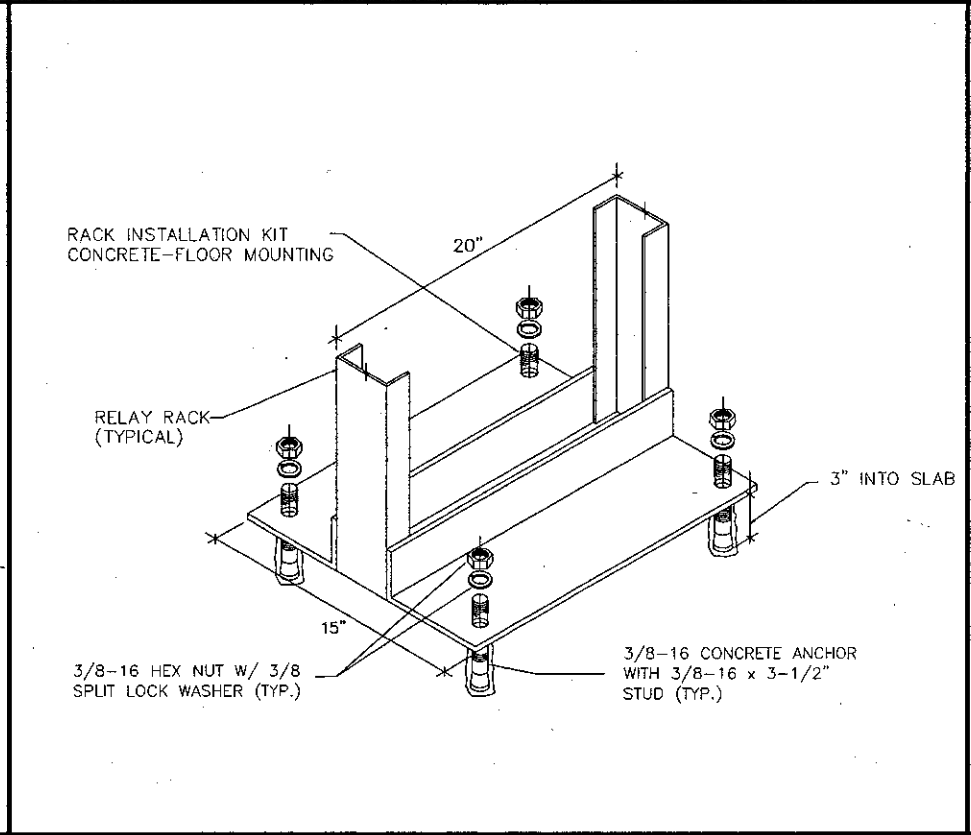
CABLE RUNWAY WALL BRACKET DETAIL ④



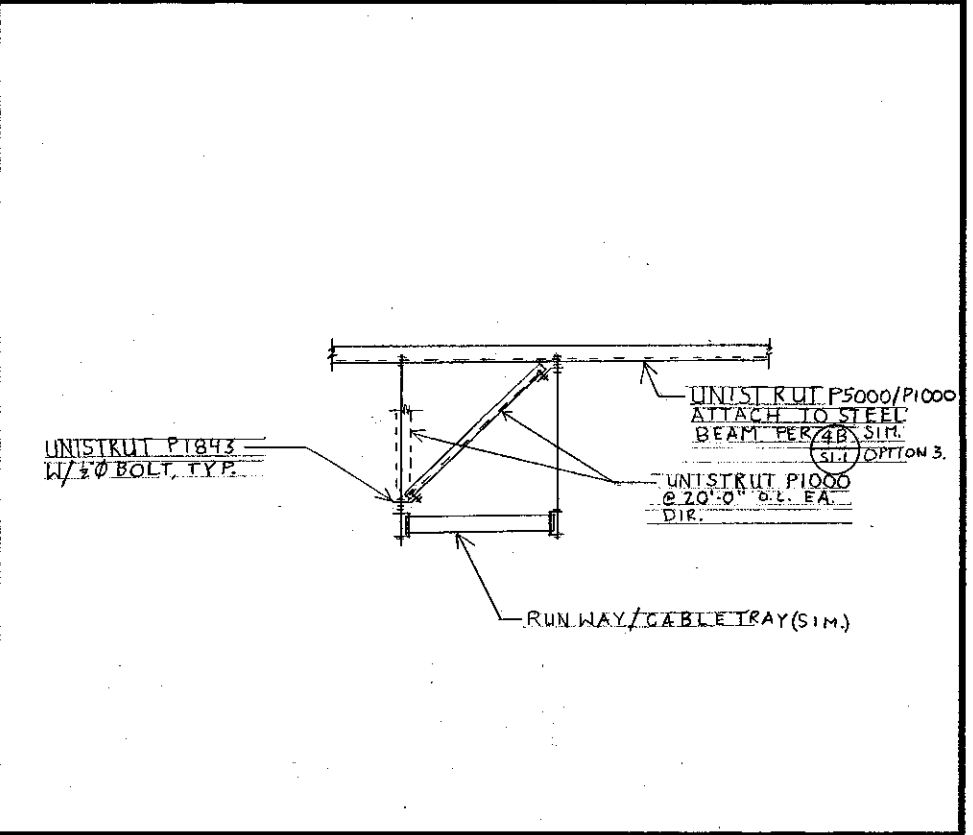
CABLE RUNWAY WALL ANGLE SUPPORT DETAIL ⑤



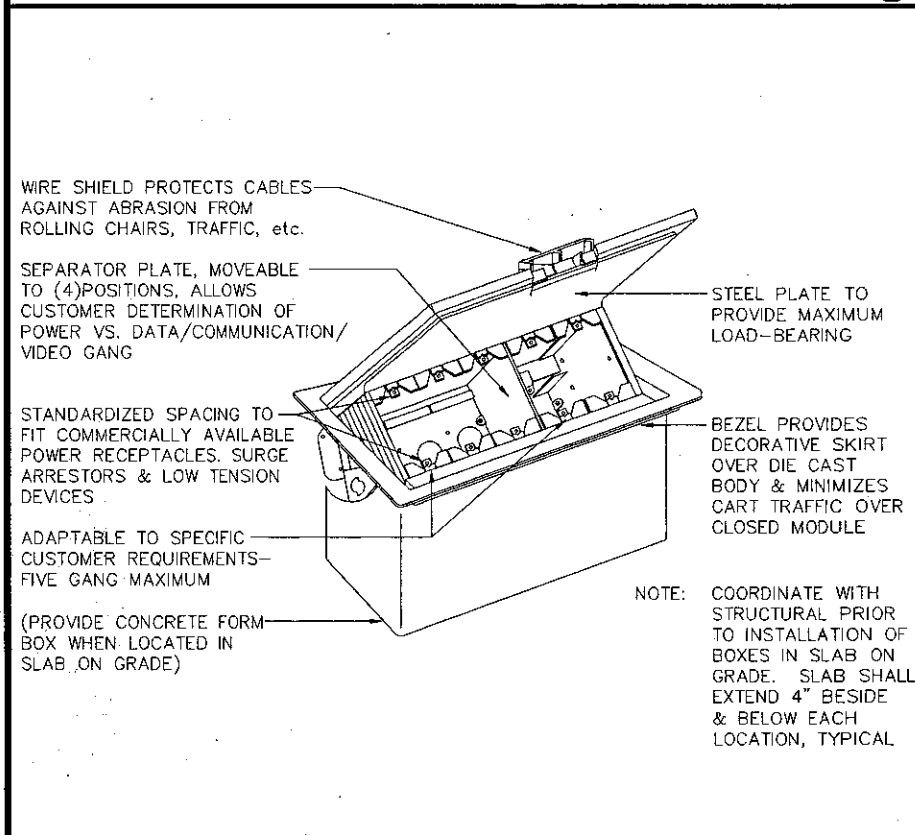
CABLE RUNWAY BRACING DETAIL ⑥



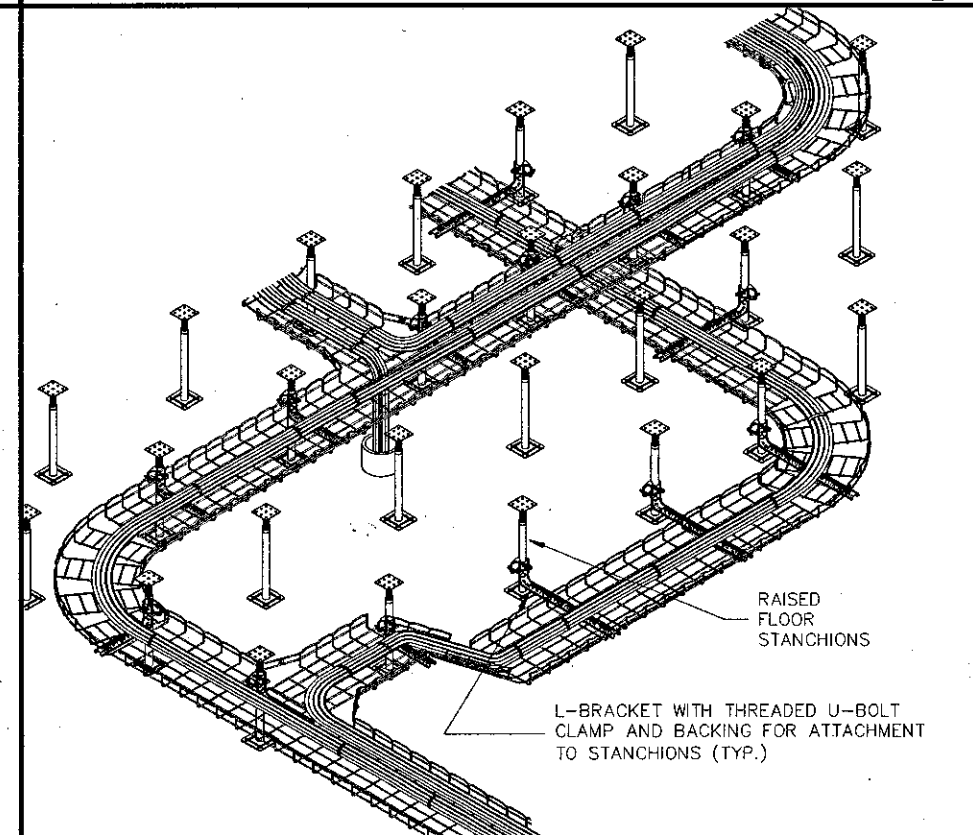
EQUIPMENT RACK MOUNTING DETAIL ⑦



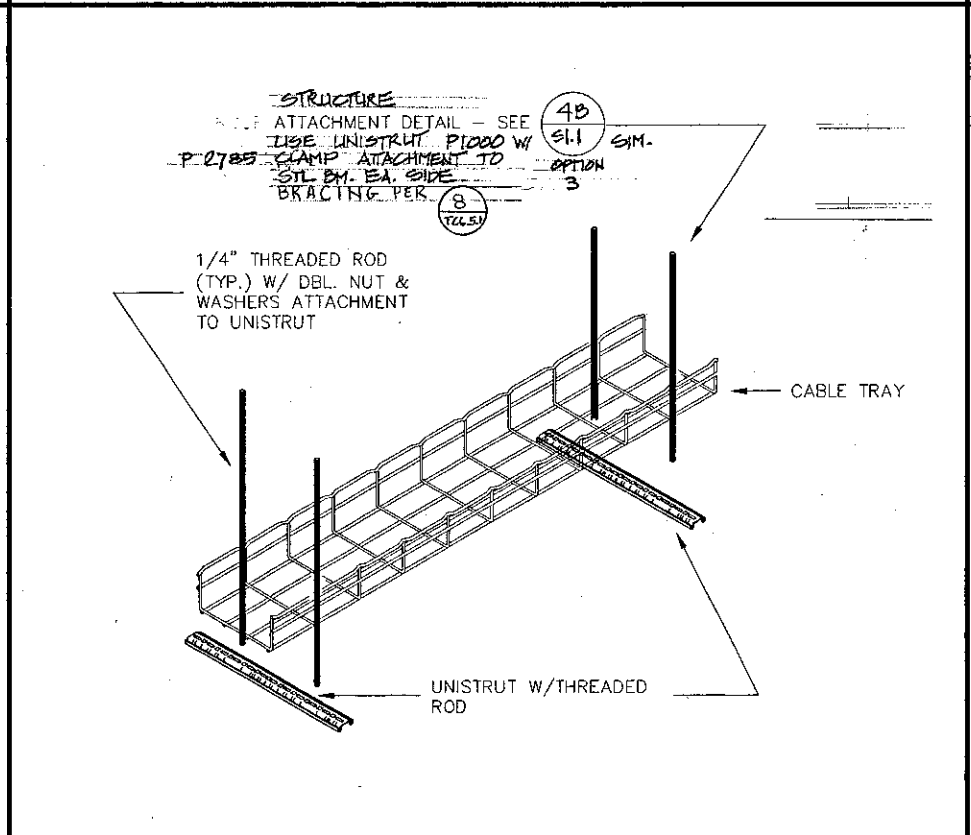
CABLE TRAY & RUNWAY BRACING ⑧



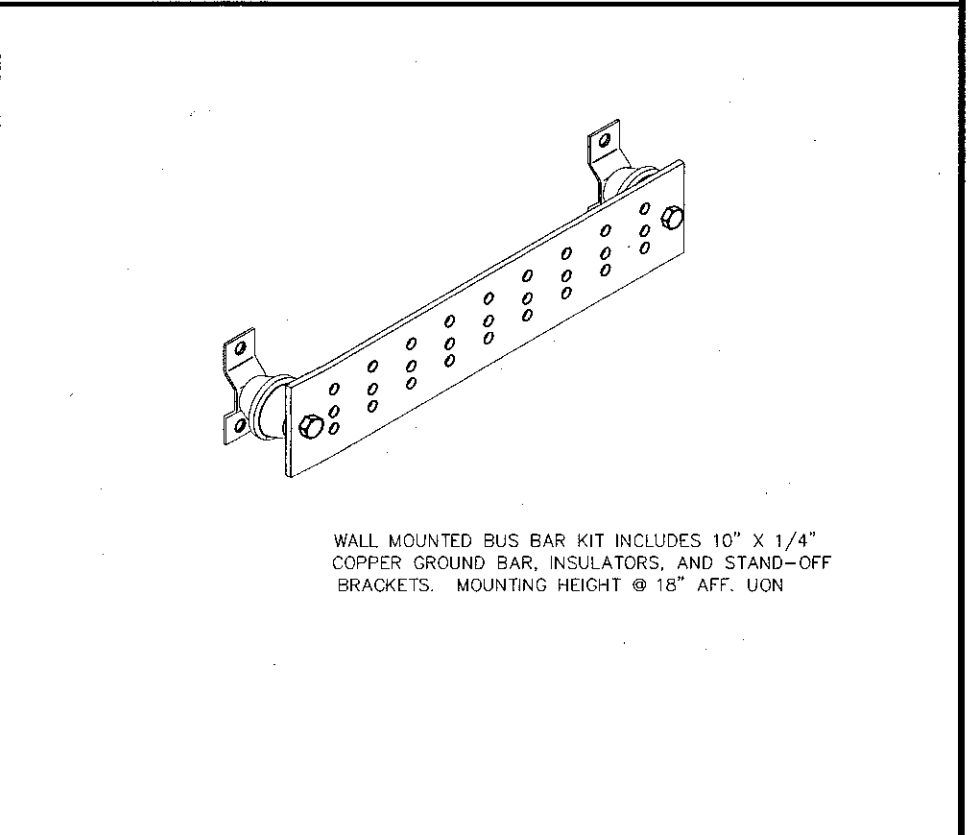
COMMUNICATIONS FLOOR BOX DETAIL ⑨



UNDERFLOOR CABLE RUNWAY DETAIL (TYP.) ⑩



ABOVE CEILING CABLE TRAY DETAIL (TYP.) ⑪



COMM. ROOM GROUNDING BUSBAR DETAIL ⑫

NOT TO SCALE

KRUGER BENSEN ZIEMER ARCHITECTS, INC.
30 W. ARBELLAGA
805/963.1726

STEVE DOWTY, A.I.A.
PRINCIPAL IN CHARGE

THERRY H. CASSAN
PROJECT DESIGNER

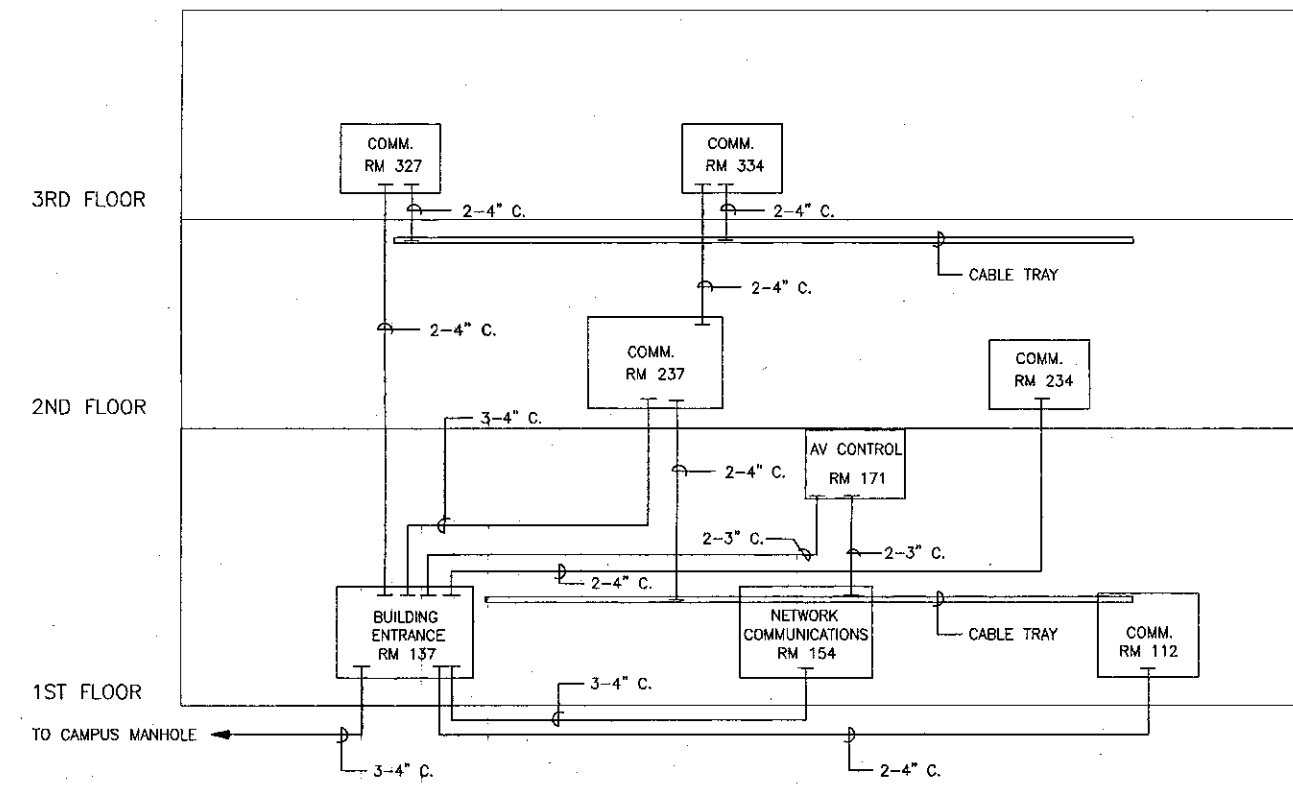
Information Technology DESIGN
CONSULTING/DESIGN/MANAGEMENT
400 HANCOCK ROAD, SUITE 314, WILSONVILLE, OR 97151
503/771-0079 FAX 503/771-0088

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Ventura, CA 93003
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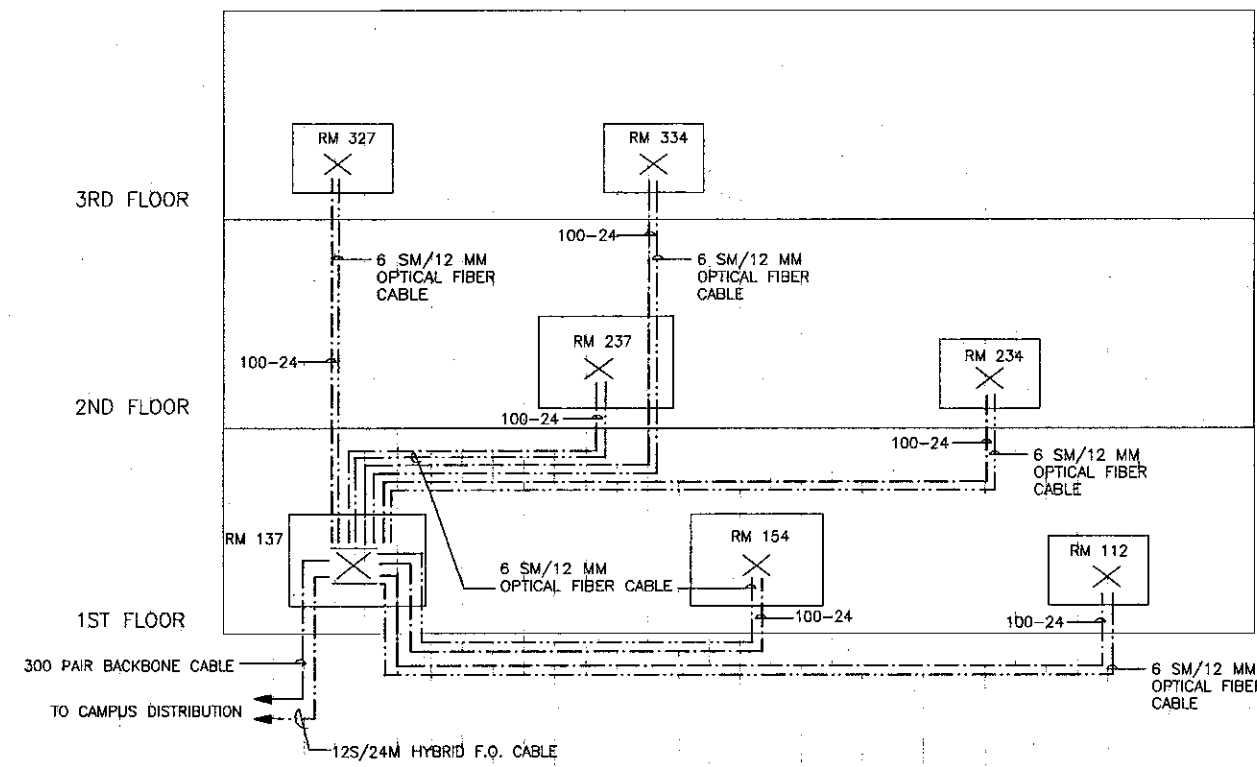
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SHEET	TC6.5.1



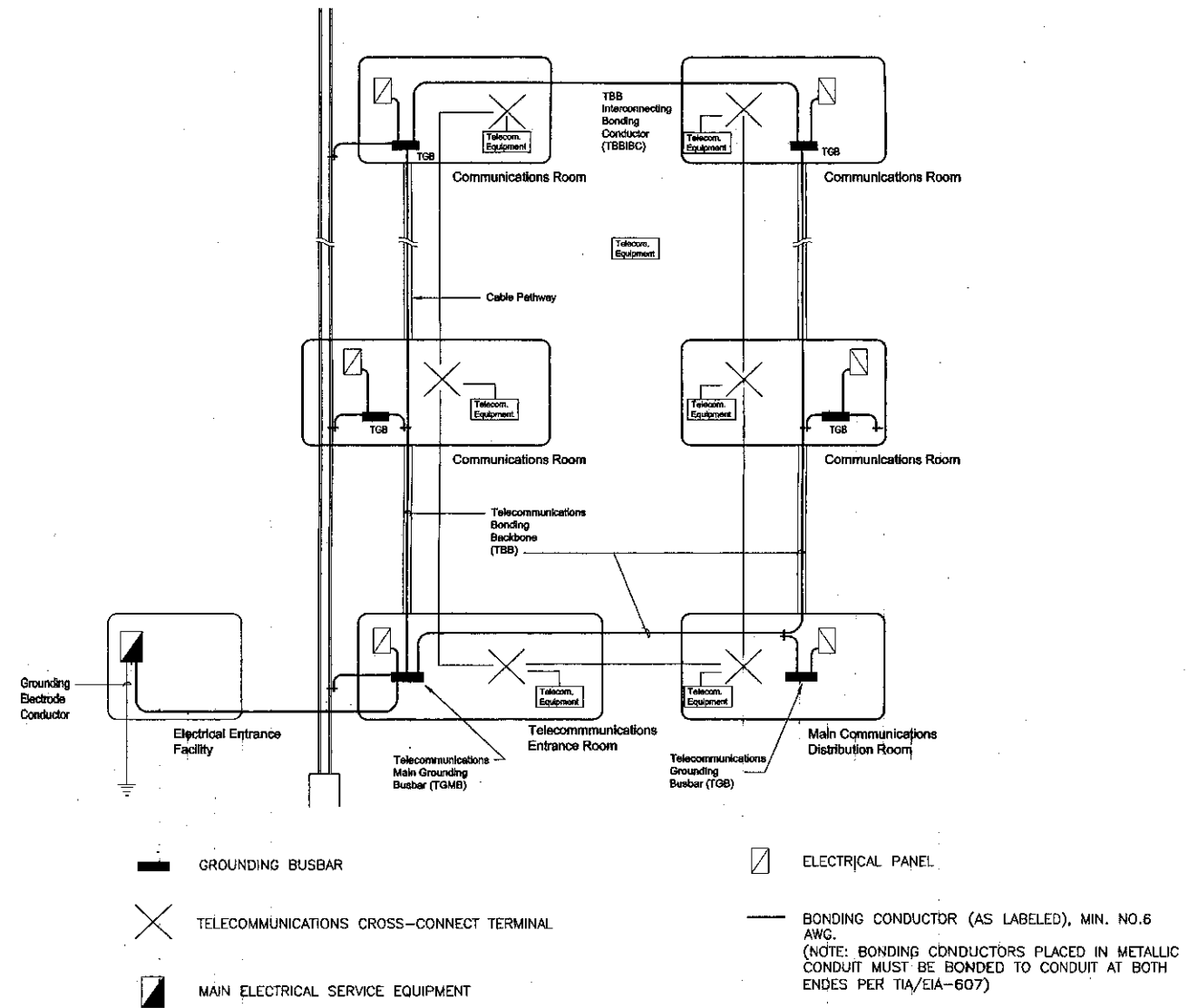
CONDUIT RISER SCHEMATIC 1
 NOT TO SCALE - REFER TO ELECTRICAL DRAWINGS FOR CONSTRUCTION DETAILS



COPPER/FIBER RISER CABLING SCHEMATIC 2
 NOT TO SCALE

LEGEND & SYMBOLS

- COPPER RISER CABLE - CMP RATED 24 GA. CATEGORY 3 RATED CABLE, SIZED AS NOTED. PLACE IN RISER CONDUIT AND/OR CABLE TRAY. REFER TO SPECIFICATIONS FOR TERMINATION HARDWARE REQUIREMENTS
- OPTICAL FIBER RISER CABLE - OFNP RATED COMPOSITE CABLE - STRAND SIZE AND TYPE AS NOTED (SM = SINGLEMODE STRAND, MM = MULTIMODE STRAND). PLACE IN 1" PLENUM RATED INNERDUCT. REFER TO SPECIFICATIONS FOR TERMINATION HARDWARE REQUIREMENTS
- ✕ TELECOMMUNICATIONS CROSS CONNECT (TERMINATION LOCATION). REFER TO SPECIFICATIONS FOR TERMINATION HARDWARE REQUIREMENTS
- ✕ MAIN BUILDING TELECOMMUNICATIONS ENTRANCE ROOM. REFER TO SPECIFICATIONS FOR TERMINATION HARDWARE REQUIREMENTS



TYPICAL GROUND SYSTEM SCHEMATIC 3
 (FOR REFERENCE - REFER TO ELECTRICAL DRAWINGS)



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 805/963.1728

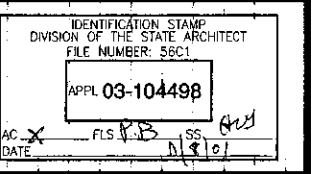
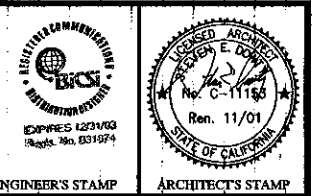
STEVE DOWTY, A.I.A.
 PRINCIPAL IN CHARGE

THIERRY H. CASSAN
 PROJECT DESIGNER

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