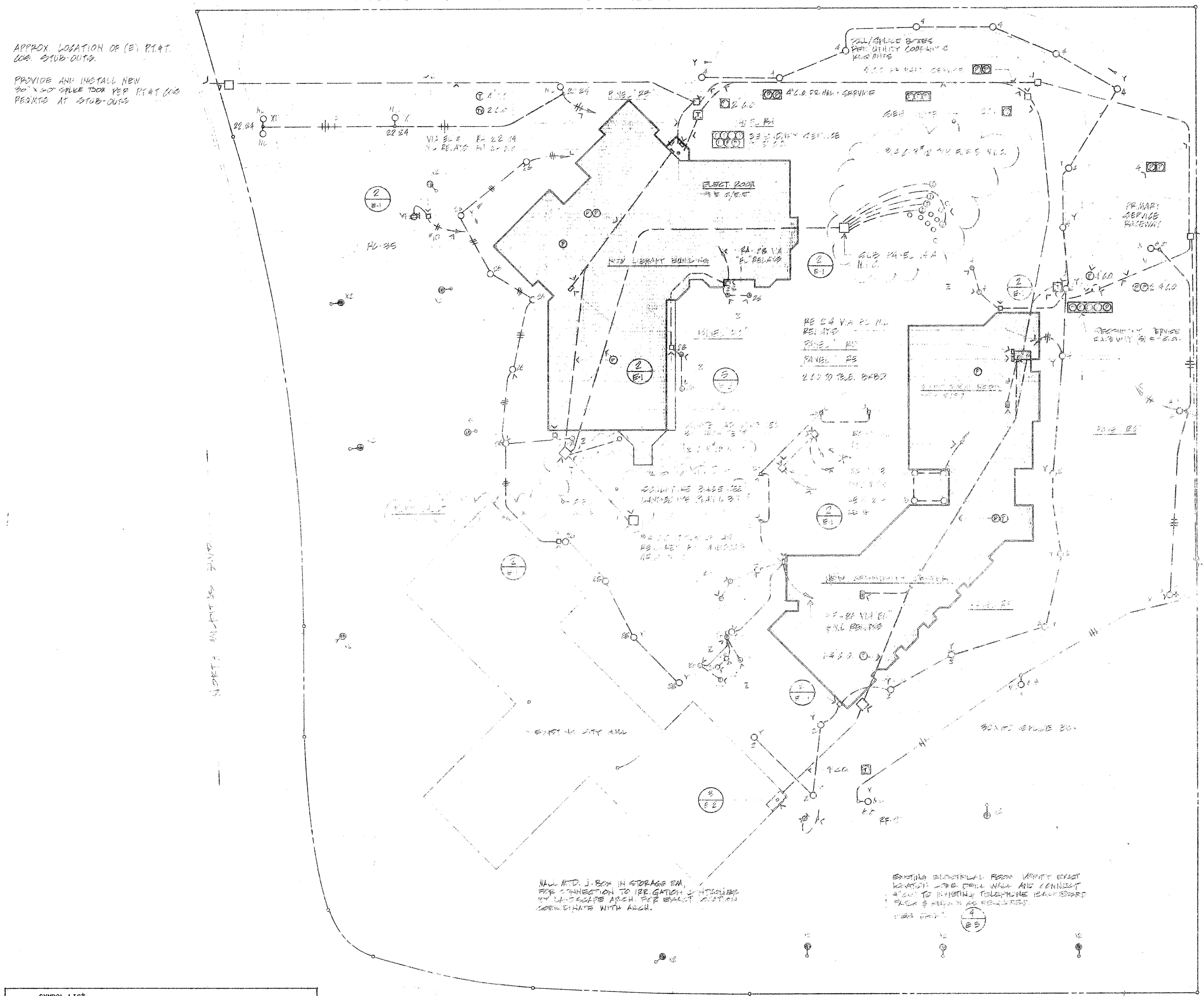


1/E-1 ELECTRICAL SITE PLAN

FOR EXACT LOCATION OF FOUNTIAN ELECTRICAL SEE LANDSCAPE ARCH. PLANS L-3 & L-4

NOTES:

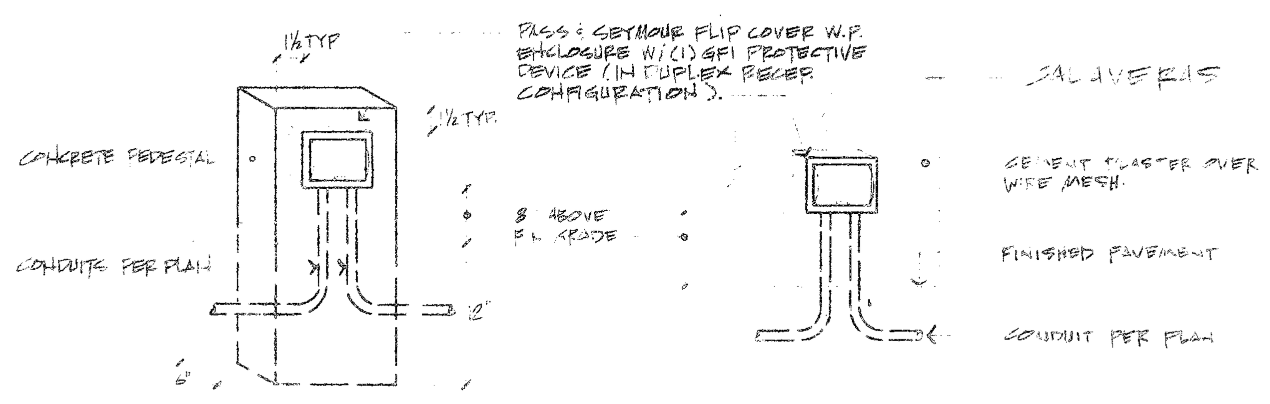
1. ALL SWITCH DEVICES SHALL BE TOGGLE HANDLE TYPE; RECEPTACLES SHALL BE RECTANGULAR STYLED AS TYPE MANUFACTURED BY SIERRA "SIERRAPLEX-MONUMENTAL (SUPER) SPEC. GRADE"; SLATER "DECORATOR-MEDALIST SPEC. GRADE ; OR LEVITON "DECORA-SPEC. GRADE".
2. ALL DEVICE PLATES SHALL BE "SMOOTH-LINE'STAINLESS STEEL; ALL DEVICES SHALL BE BLACK; GANGED PLATES SHALL BE USED AT ALL MULTIPLE DEVICE LOCATIONS.
3. ALL WALL SWITCHES SHALL BE MOUNTED AT +52" ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED. ALL RECEPTACLES SHALL BE MOUNTED AT +12" ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED.
4. PENDANT MOUNTED FIXTURES SHALL BE FREE TO SWING 45° FROM VERTICAL IN ANY DIRECTION.
5. SURFACE MOUNTED FLUORESCENT FIXTURES INSTALLED ON LOW DENSITY COMBUSTIBLE TILE CEILINGS SHALL BE BACKED WITH A NON-COMBUSTIBLE TILE SET IN PLACE OF CEILING TILE, BY ELECTRICAL CONTRACTOR UNLESS THE FIXTURE IS APPROVED FOR DIRECT MOUNTING.
6. ELECTRICAL CONTRACTOR SHALL REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR LOCATIONS OF LIGHTING FIXTURES IN EXPOSED WOOD CEILING. CONDUITS AND OUTLETS SHALL BE ROUTED INTO WOOD DECK IN A MANNER APPROVED BY THE ARCHITECT.
7. ALL PANELBOARD AND TERMINAL CABINETS SHALL BE MOUNTED AT +6'-0" TO TOP OF TRIM UNLESS OTHERWISE NOTED.
8. UNDERGROUND DUCTS SHALL BE U.L. APPROVED CARLON "P & C" DUCT TYPE "EB" W.U.C. 3.1 ENCASED IN A CONCRETE ENVELOPE WITH A MINIMUM OF 3" OF CONCRETE AROUND EACH CONDUIT, AND A MINIMUM OF 24" FROM TOP OF CONCRETE DUCT BANK TO FINISHED GRADE. A CODE-SIZE GROUND WIRE SHALL BE PROVIDED IN ALL PLASTIC CONDUIT FEEDERS OF 4160V AND ABOVE SHALL BE PERMANENT BRIGHT RED IN COLOR. CONCRETE SHALL BE ACCORDING TO THAT SPECIFIED UNDER CONCRETE SECTION OF SPECIFICATIONS BUT IN NO CASE LESS THAN 2800 POUNDS PER SQUARE INCH IN 28 DAYS STRENGTH WILL BE ACCPETED. RED OXIDE SHALL BE ADDED IN QUANTITIES OF 8 POUNDS PER CUBIC YARD OF CONCRETE.
9. EACH CIRCUIT BREAKER IN EVERY PANELBOARD FOR FLUORESCENT OR H.I.D. LIGHTING SHALL HAVE AN INDIVIDUAL LOCK-OFF DEVICE.
10. CONTRACTOR SHALL COORDINATE EXACT LOCATION & HEIGHT OF ALL DEVICES WITH APPROVED CABINETRY DRAWINGS PRIOR TO ROUGH-IN.
11. ALL CONNECTIONS TO ELECTRICAL OR MECHANICAL EQUIPMENT ON ROOF SHALL BE MADE WITH 24" WEATHER-PROOF FLEXIBLE CONDUIT (MINIMUM) TO PREVENT SOUND TRANSMISSION TO STRUCTURE.

SYMBOL LIST

- FLUORESCENT FIXTURE - SHOWN APPROXIMATELY TO SCALE
- FLUORESCENT LAMP - SHOWN APPROXIMATELY TO SCALE AND FOR ARRANGEMENT - FLUORESCENT FIXTURE UNDERSTOOD TO BE INCLUDED
- CEILING OUTLET - D INDICATES FIXTURE TYPE, "3" INDICATES CIRCUIT, "a" INDICATES SWITCH CONTROL
- WALL OUTLET - WITH OR WITHOUT INDICATIONS ABOVE
- WALL WASHING FIXTURE
- LIGHT TRACK AND FIXTURES
- EXIT LIGHT - CEILING OR WALL MOUNTED
- LIGHTING FIXTURE TYPE IDENTIFICATION SYMBOL
- SPST TOGGLE WALL SWITCH - 20A, 120/277V, "a" INDICATES CONTROL (SEE NOTE #1)
- 3-WAY TOGGLE WALL SWITCH - 20A, 120/277V (SEE NOTE #1)
- 4-WAY TOGGLE WALL SWITCH - 20A, 120/277V (SEE NOTE #1)
- SPDT MOMENTARY CONTACT TOGGLE SWITCH - 20A, 120/277V (SEE NOTE #1)
- MANUAL MOTOR STARTER WITH PILOT AND OVERLOAD PROTECTION FOR EACH PHASE. FLUSH AT FINISHED AREAS AND SURFACE AT UNFINISHED AREAS.
- DISCONNECT SWITCH - MOTOR RATED; G.E., WESTINGHOUSE OR I.T.E.; FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. "F" INDICATES SWITCHES TO BE FURNISHED WITH DUAL ELEMENT FUSES SIZED ACCORDING TO NAMEPLATE DATA ON EQUIPMENT INSTALLED.
- MAGNETIC MOTOR STARTER FURNISHED, INSTALLED AND CONNECTED BY ELECTRICAL CONTRACTOR.
- FAN CONNECTION - PROVIDE MOTOR RATED DISCONNECT SWITCH AT UNIT COMPLETE WITH OVERLOADS
- THERMOSTAT - FURNISHED, INSTALLED AND CONNECTED BY MECHANICAL CONTRACTOR - OUTLET AND CONDUIT BY ELECTRICAL CONTRACTOR
- JUNCTION BOX - CEILING OR WALL MOUNTED, SIZE TO CODE, TAPE AND TAG WIRES. PROVIDE FLEX AND/OR RECEPTACLES AS REQUIRED TO CONNECT EQUIPMENT
- RECEPTACLE, DUPLEX - 15A, 120V, GRD (SEE NOTE #1)
- RECEPTACLE, DOUBLE DUPLEX - (2) 15A, 120V, GRD (SEE NOTE #1)
- RECEPTACLE, DUPLEX - WITH ONE-HALF SWITCHED (SEE NOTE #1)
- RECEPTACLE, DUPLEX - 15A, 120V, GRD SAFETY (CHILD-PROOF) (SEE NOTE#1)
- SPECIAL EQUIPMENT RECEPTACLE - SEE PLAN FOR REQUIREMENTS - COMPLETE WITH CORD CAP
- RECEPTACLE, W.P. DUPLEX WITH CLASS "A" GFCI PROTECTION - PASS AND SEYMOUR #1591-46 WITH #4600 ENCLOSURE ((CAUTION - HOUSING REQUIRES SPECIAL INSTALLATION COORDINATION))
- RECEPTACLE, DUPLEX WITH GFCI PROTECTION - P & S #1591 (SEE NOTE #2)
- PLUG-IN STRIP - PLUGMOLD #2000 WITH 20A, 125V GROUNDED RECEPTACLES AT 18" O.C. UNLESS NOTED OTHERWISE ON DRAWING
- FLUSH FLOOR RECEPTACLE - HUBBELL #B-2537 FLOOR BOX WITH S-3925 COVER AND 5262 RECEPTACLE, CARPET PLATE AS REQUIRED
- MULTI-DEVICE FLOOR BOX WITH DEVICES AS SHOWN ON PLANS - C.W. COLE #H373-AL BOX WITH CARPET PLATE WHERE REQUIRED
- TELEPHONE WALL OUTLET - 1/2" Ø GROMETTED HOLE (SEE NOTE #1)
- SPEAKER BACKBOX WITH GRILLE FOR FUTURE SYSTEM - CEILING OR WALL MOUNTED
- EXTERIOR WEATHER-PROOF SPEAKER BACKBOX/GRILLE
- TELEVISION WALL OUTLET - DOUBLE GANG BOX WITH SINGLE GANG RING AND TELEPHONE PLATE UNLESS NOTED OTHERWISE
- AUDIO-VISUAL WALL OUTLET - SWITCHCRAFT #12-B (SEE NOTE #2)
- MICROPHONE WALL OUTLET - CANNON #XLR-3-36 (SEE NOTE #2)
- TELEPHONE FLUSH FLOOR OUTLET - HUBBELL #B-2537 WITH S-2525 COVER PLATE
- AUDIO-VISUAL FLUSH FLOOR OUTLET - HUBBELL #2537 FLOOR BOX WITH SWITCHCRAFT #12-B RECEPTACLE AND CARPET PLATE WHERE REQUIRED
- MICROPHONE FLUSH FLOOR OUTLET - HUBBELL #2537 FLOOR BOX WITH CANNON #WLR-3-14 RECEPTACLE, AND CARPET PLATE WHERE REQUIRED
- PHONOGRAPH WALL OUTLET - CANNON #XLR-4-36 (SEE NOTE #2)
- FIRE ALARM BREAK GLASS STATION @+5'-0"
- FIRE ALARM HORN - SINGLE PROJECTION
- TERMINAL CABINET - SURFACE OR FLUSH MOUNTED WITH VARNISHED PLYWOOD BACKBOARD
- PANELBOARD - SURFACE OR FLUSH MOUNTED
- CONDUIT - CONCEALED IN WALLS OR CEILING; 1/2" WITH (2) #12 AWG WIRES UNLESS OTHERWISE NOTED
- CONDUIT - IN OR BELOW FLOOR; 3/4" WITH (2) #12 AWG WIRES UNLESS OTHERWISE NOTED
- CONDUIT - EXPOSED; 1/2" WITH (2) #12 AWG WIRES UNLESS OTHERWISE NTED
- FLEX CONDUIT WITH CONNECTION
- CONDUIT - HOME RUN TO PANEL, TERMINAL CABINET, ETC.; HASH MARKS INDICATE NUMBER OF WIRES. "#10" INDICATES WIRE SIZE, SIZE CONDUIT TO CODE
- CONDUIT STUB-UP OR DOWN AS NOTED
- EMERGENCY SYSTEM CONDUIT
- GROUND ROD
- DENOTES ROOM NUMBER - SEE SCHEDULE FOR ROOM NAME
- SHEET REFERENCE SYMBOL - SEE ASSOCIATED NOTE ON SAME SHEET
- REVISION REFERENCE SYMBOL - SEE ASSOCIATED REVISION NOTE
- CO — CONDUIT ONLY WITH #12 GALV. PULL WIRE
- WP — EQUIPMENT OF WEATHERPROOF CONSTRUCTION
- NL — NIGHT LIGHT - ON AT DUSK/OFF BY PHOTO ELECTRIC CELL
- EL — EXTERIOR LIGHT - ON AT DUSK/OFF BY SET TIME
- CU — COPPER CONDUCTOR OR BUS
- AL — ALUMINUM CONDUCTOR OR BUS
- F.B.O. — FURNISHED BY OTHERS
- N.T.S. — NOT TO SCALE
- N.I.C. — NOT IN CONTRACT
- I.B.O. — INSTALLED BY OTHERS
- I.&C. — INSTALLED AND CONNECTED BY ELECTRICAL CONTRACTOR
- LOCAL SOUND SYSTEM ... - SEE SPECIFICATIONS.
- INTERCOM TELEPHONE WALL OUTLET @ +52" OF WALL HUNG INTERCOM HANDSET
- WALL MOUNTED DIMMER +52" ABOVE FIN. FLOOR UNLESS OTHERWISE NOTED ...

SYMBOL LIST

- POWER DISTRIBUTION, FEEDER OR RACEWAY - SEE SINGLE-LINE DIAGRAM FOR REQUIREMENTS.
- TELEPHONE RACEWAY - SIZE AS NOTED - 2" C.O. MINIMUM.
- CABLE TELEVISION SYSTEM RACEWAY - SIZE AS NOTED
- CONCRETE ENCASED DUCT BANK CONTAINING ONE OR MORE OF THE ABOVE SYSTEM RACEWAYS.
- PARKING LOT LUMINAIRE COMPLETE WITH BASE PER DETAILS ON SHEET E-2.
- PRECAST CONCRETE PULL-BOX. SET FLUSH WITH FINISHED GRADE SIZED AS NOTED ON PLAN AND/OR CODE, WHICHEVER IS LARGER.
- J-BOX FOR BOOK SECURITY SYSTEM. VERIFY LOCATION PRIOR TO INSTALLATION WITH KNO60 CORPORATION.
- INTRUSION ALARM MAGNETIC DOOR SWITCH ASSEMBLY. SEE DETAIL 3/E-3.
- FLUSH CEILING OUTLET FOR FUTURE INTRUSION ALARM MOTION DETECTOR UNIT. PROVIDE BLANK COVER. FINISH TO MATCH CEILING FINISH.
- WALL-MOUNTED OUTLET FOR FUTURE INTRUSION ALARM. MOTION DETECTOR UNIT. PROVIDE BLANK PLATE COVER FINISH TO MATCH WALL FINISH.
- INTRUSION ALARM CONDUIT - 1/2" C.O.



2/E-1 DETAIL - GROUND FAULT PROTECTION DEVICE PEDESTALS
N.T.S.
NOTE: EXACT LOCATION OF PEDESTAL SHALL BE COORDINATED W/ ARCH PRIOR TO ROUGH-IN AND INSTALLED ACCORDINGLY.

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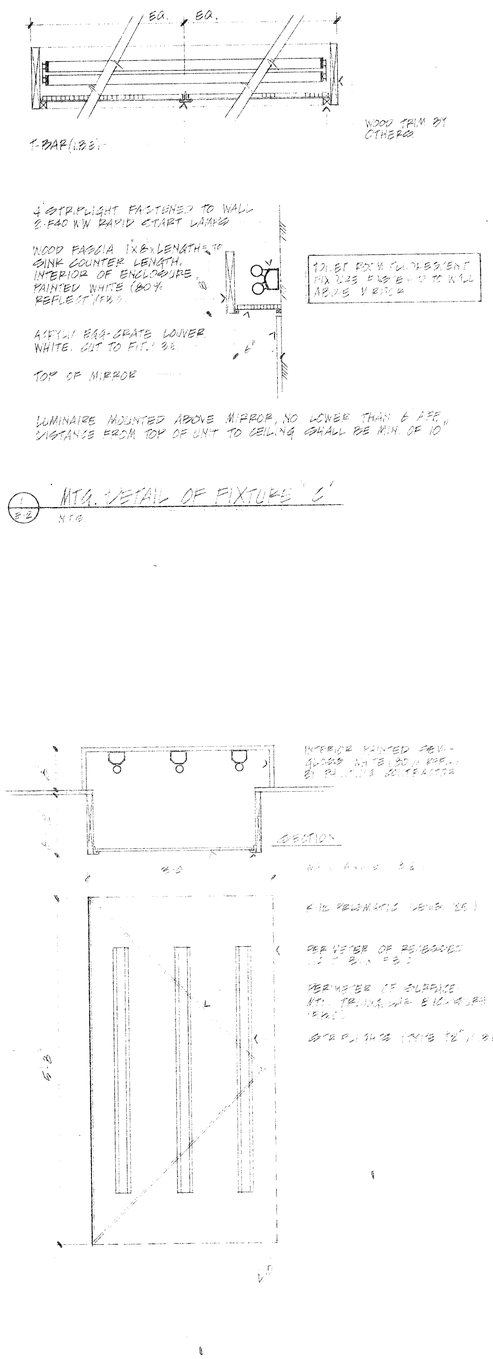
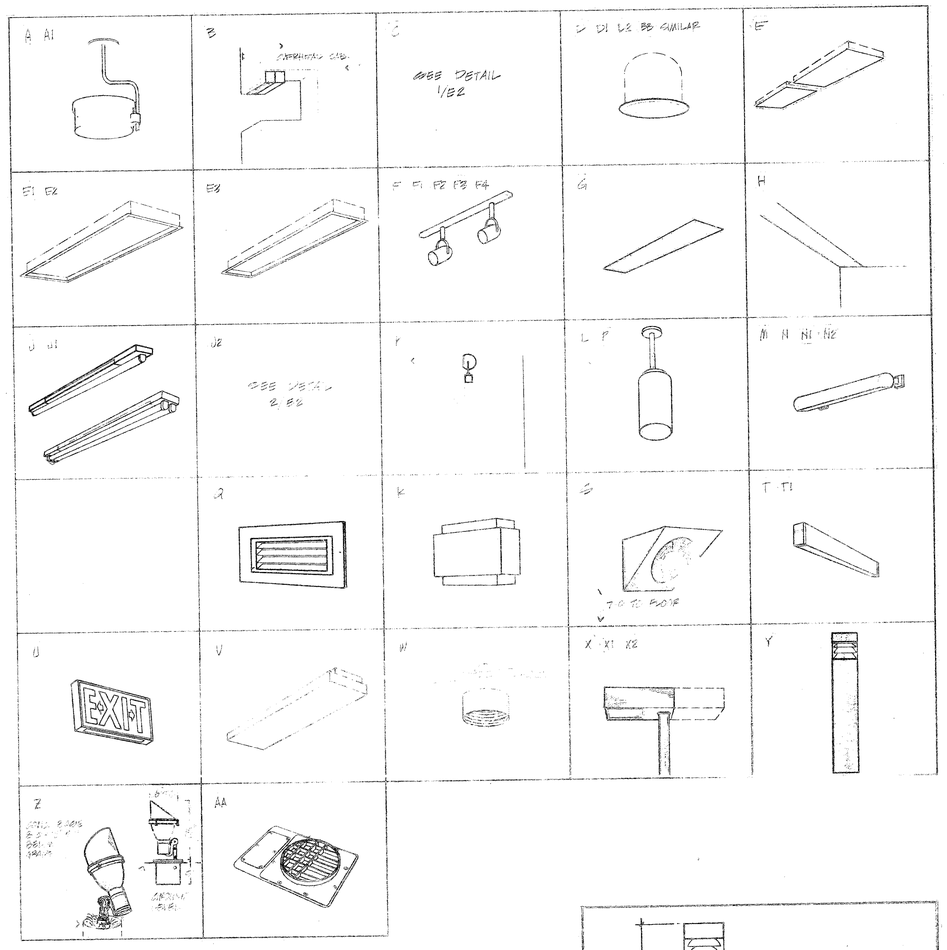
SITE PLAN

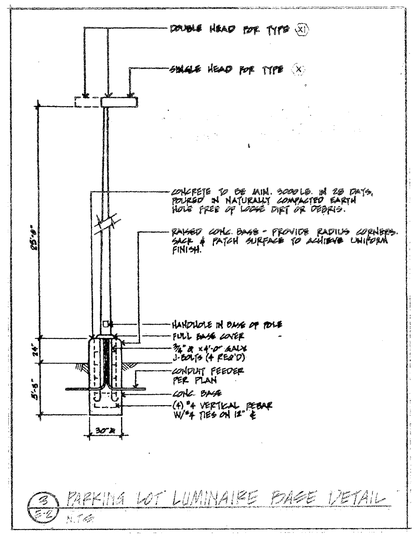
JOB	SHEET	DATE	REV
	E-1	8-4-81	



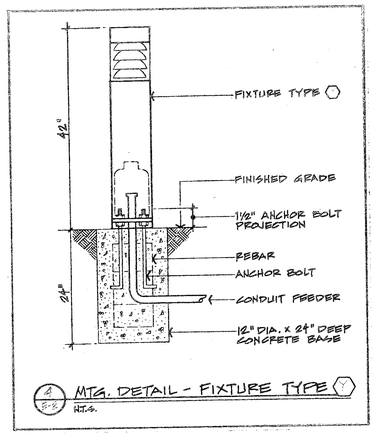
MTG. DETAIL OF FIXTURE 'C'
NTS

MTG. DETAIL FOR FIXTURE 'J2'
NTS





PARKING LOT LUMINAIRE BASE DETAIL
NTS



MTG. DETAIL - FIXTURE TYPE Y
NTS

X2	GARDCO A1913-208-400HPS-BRA C6-38 POLE W/ OFFSET BOLT PADS TO MATCH EXISTING POLE BASES	400W HPS	SIMILAR TO "X", EXCEPT FIXTURE AND POLE ARE RETROFITTED ONTO EXISTING POLE BASES. 208 V
Y	KIM B30-206-BL-E MOLDCAST 3170-LE-208	WESTINGHOUSE H38JA-100/N (MERCURY)	ROUND LIGHT BOLLARD. BLACK FINISH. 208V. LEXAN LENS.
Z	KIM C24MV-208V	100W R-40 MERCURY (WEST.) (STYLE TONE)	MERCURY VAPOR OUTDOOR UP-LIGHT FOR WALL WASHING AND TREE LIGHTING. BRONZE FINISH. 208V.
AA	KIM S125MV208 W/ 518GDL DIRECTIONAL LOUVER	175W R-40 MERCURY (WEST.) (STYLE TONE)	RECESSED MERCURY VAPOR UP-LIGHT, AIMED TO WASH FACADE.
BB	LIGHTOLIER 53454-AO OMEGA E7062TW	MS175/C	RECESSED H.I.D DOWNLIGHT CLEAR ALZAK REFLECTOR
CC	HALO U6SEE	40W A-19 CLEAR 130V.	SURFACE MTD. HALO FIXTURE MTD. BENEATH CONCRETE BRIDGE

NOTE 1: EXTERIOR HOUSING FINISH PAINTED BY MANUFACTURER TO MATCH COLOR ONLY PROVIDED BY ARCHITECT.

FIXTURE SCHEDULE

TYPE	MANUFACTURER	LAMPS	REMARKS
A	GARDCO M120QA-120-400MH-WE-SP SPI SFB 2601-MH400-SAB38-SP	SYLVANIA 1-MS400/C	INDIRECT H.I.D. LUMINAIRE, PENDANT-MTD, 4' FROM FINISHED CEILING. (NOTE 1) WEATHER PROOF BALLAST FOR REMOTE MOUNTING
A1	GARDCO M120QA-120-400MH-WE-QUARTZ-SP SPI SFB2601-MH400-SAB38-QM-SP	SYLVANIA 1-MS400/C 1-250W Q-CLIPS	SIMILAR TO A, EXCEPT LUMINAIRE CONTAINS QUARTZ AUXILIARY FOR EMERGENCY LTG. SOCKET AND PIGTAILS ONLY.
B	SENTINEL SL3514	1-F40WW	UNDERCABINET FIXTURE.
C	ACME 1202-4R-120V GLOBE 1602-4R-120V	2-F40WW	DIRECT-INDIRECT FLUORESCENT LUMINAIRE WALL MOUNTED ABOVE MIRROR. WOOD FASCIA. WHITE EGG-CRATE LOUVER. SEE DETAIL 1/E2.
D	LIGHTOLIER 7054 OMEGA E4001TW	100W A-19	RECESSED INCAND. DOWNLIGHT. CLEAR ALZAK REFLECTOR
D1	LIGHTOLIER 7029 OMEGA W4002TW	100W A-19	RECESSED INCAND. WALLWASHER. CLEAR ALZAK REFLECTOR.
D2	LIGHTOLIER 7054 OMEGA E4001TW	75WA-19	SIMILAR TO FIXTURE 'D' EXCEPT FOR LAMP WATTAGE.
E	ACME 5153-24-4R-PA-120V SUPREME HL9243-R/S-KA-TF	8-F40 WW	PAIR OF 2x4 RECESSED FLUOR. TROFFERS. HINGE AND LATCH DOOR, K-12 LENS. CENTER LAMPS TANDEM-WIRED. INNER AND OUTER LAMPS SWITCHED SEPARATELY. FLANGE TROFFER.
E1	ACME 5153-24-4R-PA-120V SUPREME HL9243-R/S-KA-TF	3-F40WW 3-F40WW	2x4 RECESSED FLUOR. TROFFERS. HINGE AND LATCH DOOR, K-12 LENS. INNER AND OUTER LAMPS SWITCHES SEPARATELY. FLANGE TROFFER.
E2	ACME 5152-24-4R-PA-120V SUPREME HL9242-R/S-KA-TF	2-F40WW	SIMILAR TO E1, EXCEPT FIXTURE HOUSES 2 LAMPS ONLY.
E3	ACME 5152-12-4R-PA-120V SUPREME HL9142-R/S-KA-TF	2-F40WW	SIMILAR TO E1, EXCEPT FIXTURE DIMENSIONS ARE 1x4, AND FIXTURE HOUSES 2 LAMPS.
F	LIGHTOLIER 6002 & 6003 (TRACK) AND (4) 7111 (FIXTURES)	75W R-30 (FLOOD)	16' SURFACE-MTD. TRACK WITH FOUR TRACK LIGHTS, MATTE WHITE FINISH.
F1	LIGHTOLIER 6002 (TRACK) AND (2) 7111 (FIXTURES)	75W R-30 (FLOOD)	8' SURF-MTD. TRACK WITH (2) TRACK LIGHTS, MATTE WHITE FINISH.
F2	LIGHTOLIER 6001 & (2) 6003 (TRACK) AND 7111 (FIXTURES)	75W R-30 (FLOOD)	20' SURFACE-MTD. TRACK WITH MATTE WHITE TRACK LIGHTS AS SHOWN ON PLAN.
F4	LIGHTOLIER 6001 (TRACK) 6050 (L-CONNECTOR), AND 7111 (FIXTURES).	75W R-30 (FLOOD)	4' SURF-MTD TRACK WITH MATTE WHITE TRACK LIGHTS.
G	COLUMBIA OU4541G-43-142-120V LIGHTOLIER 68574-UW AND 68574-UH	2-F40WW	1x4 RECESSED FLUOR. TROFFER W/PARABOLIC LOUVER. STACKED LAMP. LAMPS TANDEM-WIRED FOR DOUBLE SWITCHING. SEE DETAIL 1/E2 FOR MTG.
G1			
H	COLUMBIA AL SYSTEM LIGHTOLIER PTS SYSTEM	F40WW LAMPS ONLY	RECESSED FLUOR. WALLWASHER. PARABOLIC LOUVER.
J	ACME 1001-4R-H GLOBE 1201-4R	1-F40WW	FLUOR. STRIPLIGHT, CHAIN-MTD @ 10'-0" A.F.F. HIF BALLAST.
J1	ACME 1202-4R-120V GLOBE 1602-4R-120V.	2-F40WW	CHAIN-MTD. STRIPLIGHT. @ 10'-0" A.F.F.
J2	ACME [illegible]-120V GLOBE [illegible]-120V	2-F40WW	TRIANGULAR FLUORESCENT LUMINAIRE. SEE DETAIL 2/E2 ALSO SEE ARCH DETAILS
K	LIGHTOLIER VATCO51	240 PAR 38 VHBP-120VOLT	SPECIAL FLOODLIGHT, AIMED AT TOP OF SMALL STRUCTURE. FIXTURE TO BE AIMED AT NIGHT. FIN. TO BE SELECTED BY ARCHITECT.
L	LIGHTOLIER 32514-AO KURT-VERSEN S31-175120-MH	1-MS175/C	PENDANT-MTD. METAL HALIDE DOWNLIGHT. (NOTE 1) CLEAR ALZAK REFLECTOR. MTG HGT. AFF
M	GARDCO A65-[illegible] LINEAR LIGHTING E5363 SERIES	8-F40WW	16'-18' LONG FLUORESCENT TUBE, WALL-MOUNTED AT 10' 0" A.F.F. 6"-7" DIAM. EXTRUDED ALUM. TUBE. FINISH TO BE SELECTED BY ARCHITECT. LINEAR PRISMATIC LENS
N	GARDCO [illegible] LINEAR LIGHTING E5360 SERIES	4-F40WW 6-F40WW 8-F40WW	12' LONG TUBE SIMILAR TO 'M', WALL MTD. @ 10' A.F.F. 12', 8-TUBE SIMILAR TO 'N' 4 LAMP TUBE SIMILAR TO 'N'
P	PRESCOLITE 1105-920 OMEGA PS 622	150W R-40 (FLOOD)	PENDANT-MTD. INCANDESCENT CYLINDER DOWNLIGHT. BOTTOM OF FIXTURE MTD AT 4' 0" FROM FINISHED CEILING. MATTE WHITE HOUSING FINISH. BLACK GROOVED BAFFLE. (NOTE 1)
Q	[illegible] PRESCOLITE [illegible]	75W R-30 (FLOOD) (STYLE TONE)	RECESSED CAST ALUMINUM SLOT LIGHT. CONCRETE TRL. LOUVER FACE.
R	LIGHTOLIER 6572	75W A-19	WALL-MTD. INCANDESCENT FIXTURE. BOTTOM OF FIXTURE MTD. AT 5'6" A.F.F.
S	LIGHTOLIER T17-103 EP438	40W A-19/C	TRIANGULAR WALL BRACKET FIXTURE MTD. 7'-0" A.F.F. WHITE PAINTED FIN. CLEAR FAINDROP BULB/BEHATO SPHERE
T	GLOBE WPT7801-4R	1-F40WW	SURFACE-MTD FLUORESCENT WRAPAROUND FIXTURE. FINISH TO BE SELECTED BY ARCH
T1	GLOBE WPT7801-2R	2-F40WW	SIMILAR TO T EXCEPT FIXTURE LENGTH = 8'-0"
U	PRESCOLITE 75222	SUPPLIED W/ FIXTURE	UNIVERSAL EXIT LIGHT
V	GLOBE WPV 3702-4R ACME 3102-4R-PA	2-F40 WW	1 x 4 SURFACE-MTD. FLUOR. WRAPAROUND FIXTURE.
W	LIGHTOLIER 7064 OMEGA PS661TW	75W R-30	SEMI-RECESSED INCAND. DOWNLIGHT. BLACK GROOVED BAFFLE. (NOTE 1)
X	GARDCO A1913-208-400 HPS-BRA. C6-30 POLE	400W HPS	SHARP CUTOFF ROADWAY LUMINAIRE MOUNTED ON 30' POLE. BRONZE ANODIZED FINISH. 208V.
X1	GARDCO A1923-208-400HPS-BRA C6-38 POLE	400W HPS	SIMILAR TO "X", EXCEPT DOUBLE HEAD.

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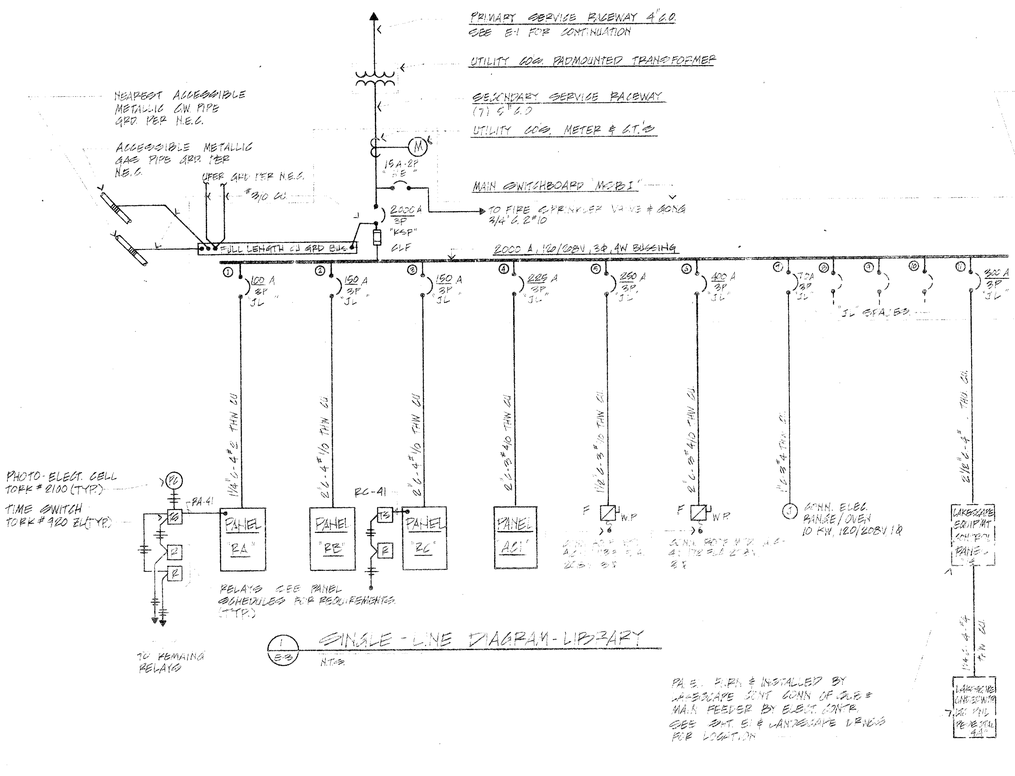
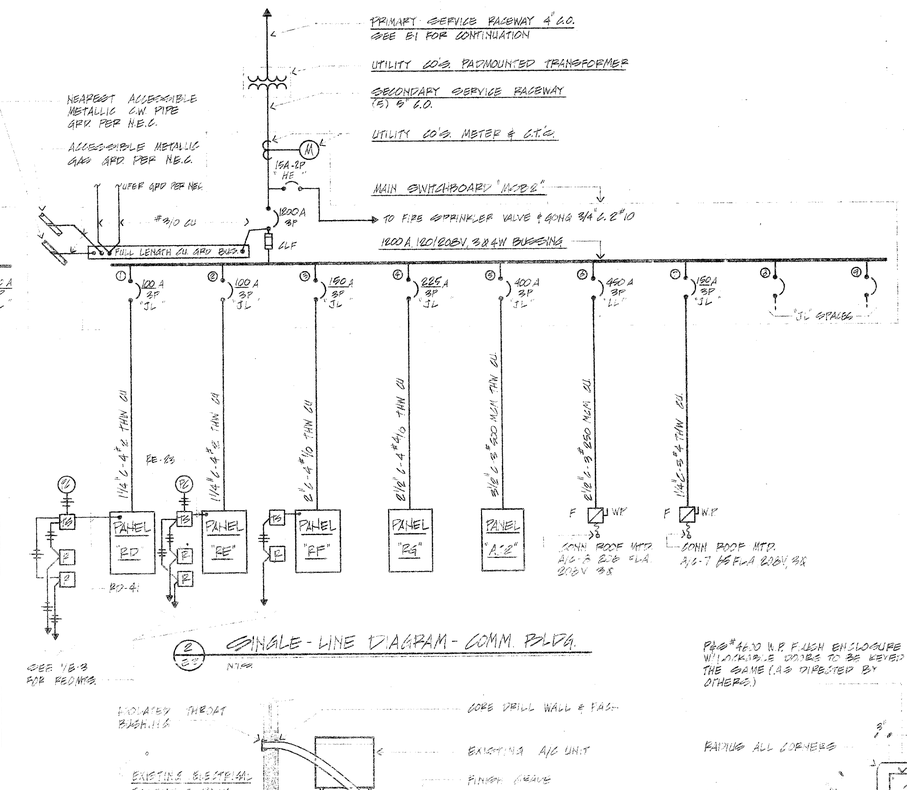
FIXTURE SCHEDULES

JOB	SHEET	DATE	REV
8417	E-2	8-4-81	



1 E-3 SINGLE-LINE DIAGRAM-LIBRARY
N.T.S.

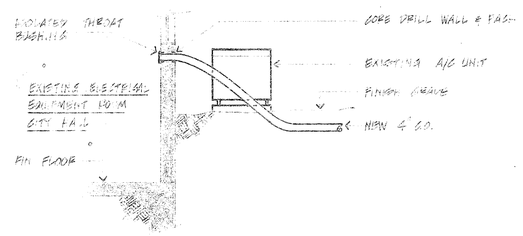
PAE. PURC. & INSTALLED BY LANDSCAPE CONT. CONN. OF LIGHT & MAIN FEEDER BY ELECT. CONTR. SEE SHT. E-4 LANDSCAPE LIGHTS FOR LOCATION



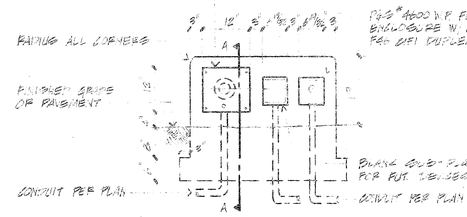
2 E-3 SINGLE-LINE DIAGRAM-COMM. BLDG.
N.T.S.

SEE E1.3 FOR REQ'MTS.

PAE. #4600 W.P. FLUSH ENCLOSURE W/LOCKABLE DOORS TO BE KEYED THE SAME (LAB DIRECTED BY OTHERS.)

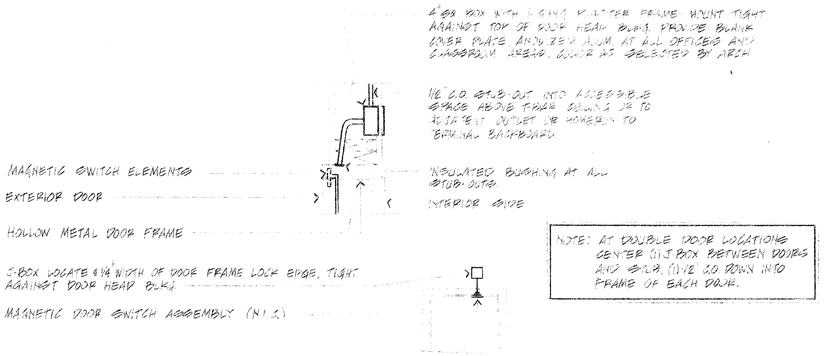


SECTION



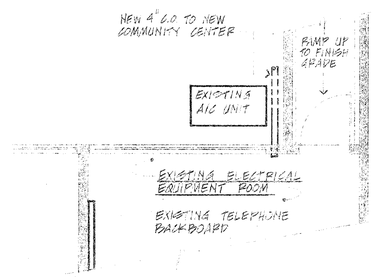
PAE #4600 W.P. FLUSH ENCLOSURE W/ P&S #5351-FSG DIFI DUPLEX RECEPT.

ELEVATION



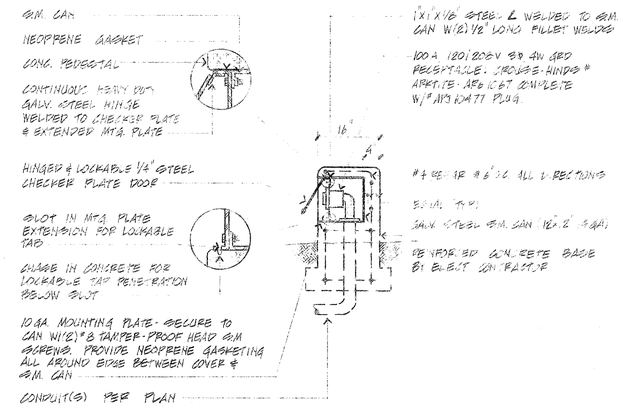
NOTE: AT DOUBLE DOOR LOCATIONS CENTER (1) J BOX BETWEEN DOORS AND STUB (1) 1/2" C.O. DOWN INTO FRAME OF EACH DOOR.

5 E-3 INTRUSION ALARM PROVISION DETAIL
N.T.S.



FLOOR PLAN

4 E-3 TELEPHONE CONDUIT DETAIL
N.T.S.



6 E-3 EXTERIOR STAGE POWER PEDESTAL DETAIL
SCALE: 3/4"=1'-0"

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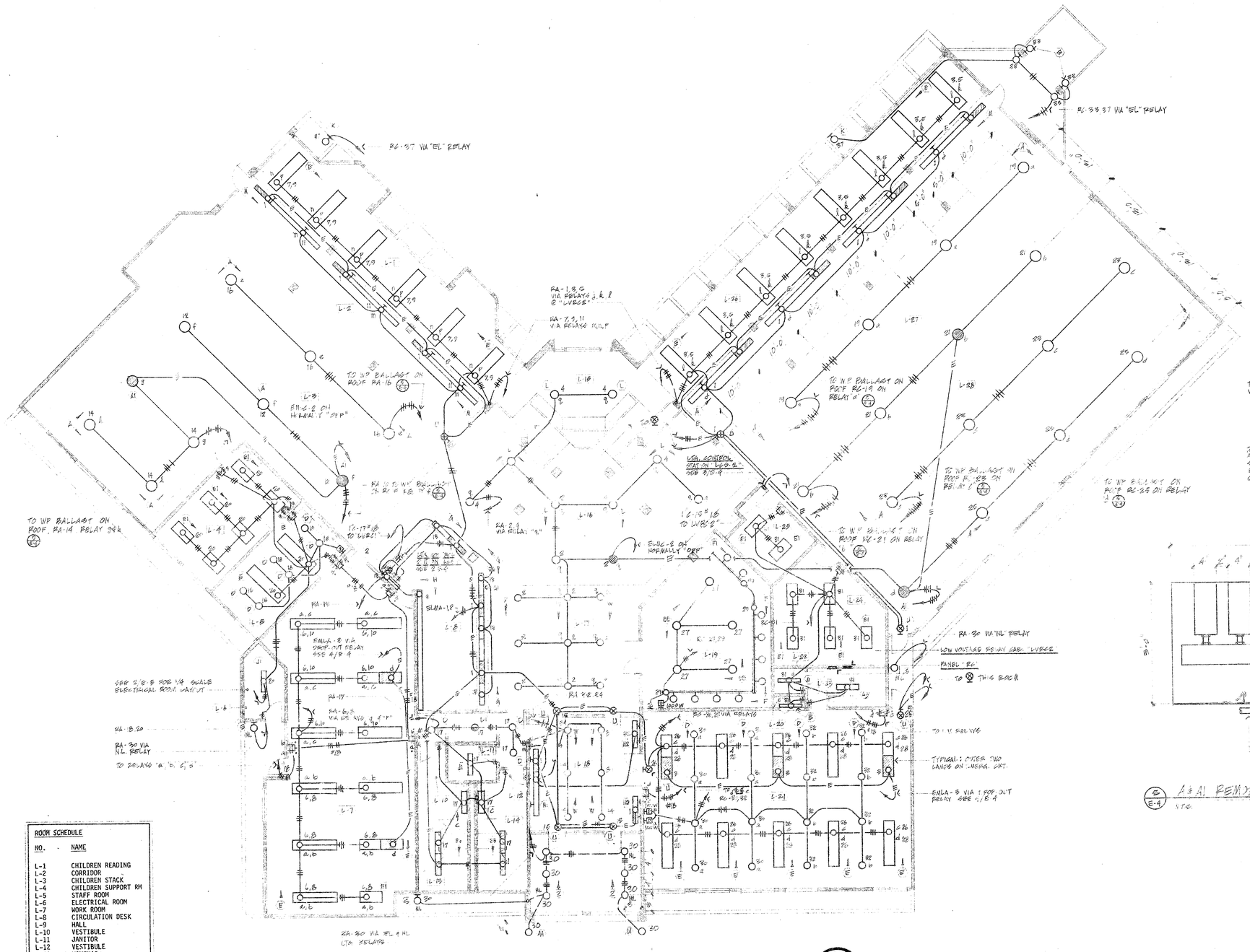
LIBRARY and COMMUNITY BUILDINGS
MILPITAS CIVIC CENTER
455 E. CALAVERAS BLVD. MILPITAS, CALIF.

SINGLELINE & MISC. DETAILS

JOB	SHEET	DATE	REV
	E-3	8-4-81	



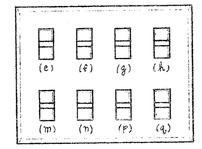
1 E-4 LIGHTING FLOOR PLAN - LIBRARY
SCALE: 1/8" = 1'-0"

NORTH

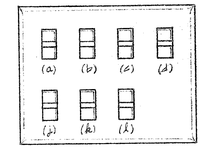
ROOM SCHEDULE	
NO.	NAME
L-1	CHILDREN READING
L-2	CORRIDOR
L-3	CHILDREN STACK
L-4	CHILDREN SUPPORT RM
L-5	STAFF ROOM
L-6	ELECTRICAL ROOM
L-7	WORK ROOM
L-8	CIRCULATION DESK
L-9	HALL
L-10	VESTIBULE
L-11	JANITOR
L-12	VESTIBULE
L-13	WOMEN'S
L-14	MEN'S
L-15	SEATING
L-16	ENTRY HALL
L-17	LOBBY
L-18	FOYER
L-19	HISTORICAL ROOM
L-20	SINK CLOSET
L-21	ACTIVITY ROOM
L-22	A.V. STORAGE
L-23	STORAGE
L-24	ADULT SUPPORT ROOM
L-25	LIBRARIAN
L-26	ADULT READING
L-27	CORRIDOR
L-28	ADULT STACK

CONSTRUCTION NOTES

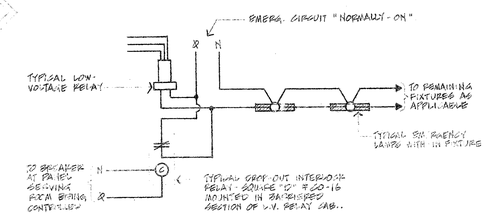
1. PROVIDE ALL NECESSARY COMPONENTS I.E. RELAYS, RECTIFIER, TRANSFORMERS, ETC. FOR A COMPLETE AND OPERATING L.V. CONTROL SYSTEM AS MANUFACTURED BY G.E. CO.
2. SPST TOGGLE WALL SWITCH - 20A, 120/277V (SEE NOTE #1) SWITCH PLATES TO BE ENGRAVED; EMERGENCY LIGHTING CIRCUIT SWITCH MUST BE "ON" WHEN BUILDING IS OCCUPIED.



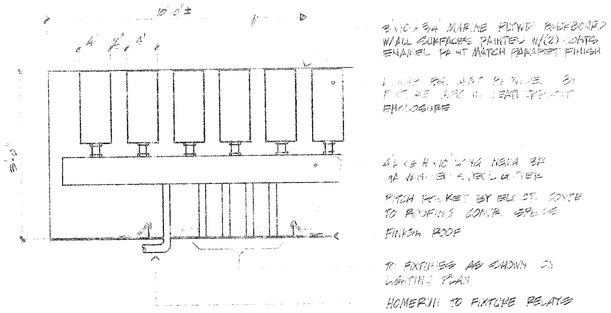
2 E-4 LIGHTING CONTROL STATION "LCS-1"
N.T.S.



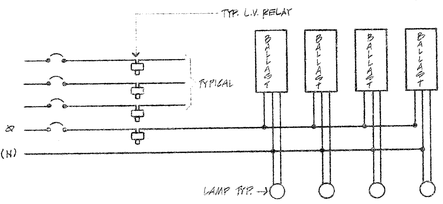
3 E-4 LIGHTING CONTROL STATION "LCS-2"
N.T.S.



4 E-4 EMERG. LTG. STOP-OUT RELAY INTERFACE DIAGRAM
N.T.S.



5 E-4 A&A REMOTE WEATHERPROOF BALLAST DETAIL
N.T.S.



6 E-4 REMOTE BALLAST WIRING DETAIL FIXTURE "A&A"
N.T.S.

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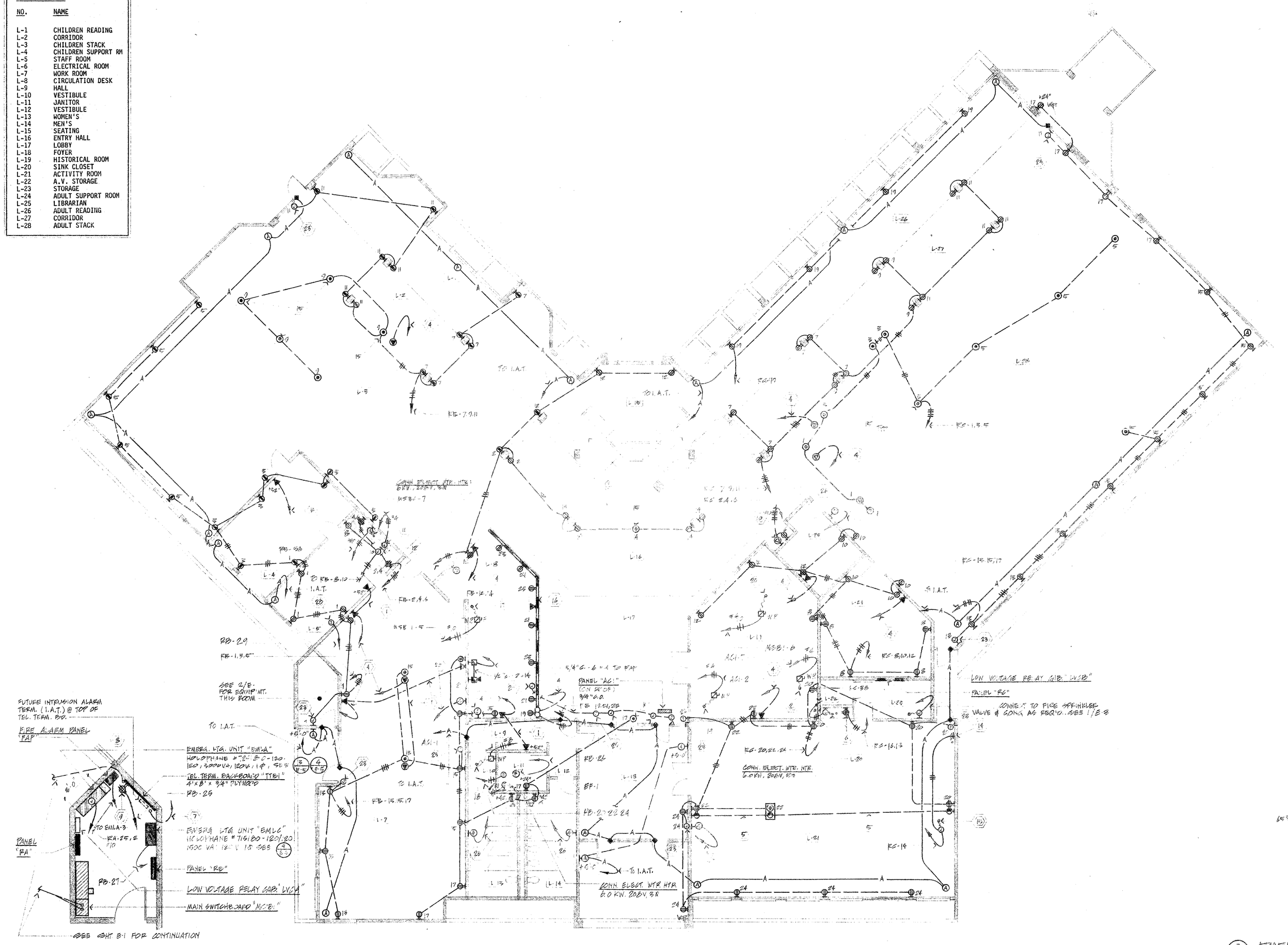
LIBRARY LIGHTING
FLOOR PLAN

JOB	SHEET	DATE	REV
307	E-4	8-4-81	

ROOM SCHEDULE

NO.	NAME
L-1	CHILDREN READING
L-2	CORRIDOR
L-3	CHILDREN STACK
L-4	CHILDREN SUPPORT RM
L-5	STAFF ROOM
L-6	ELECTRICAL ROOM
L-7	WORK ROOM
L-8	CIRCULATION DESK
L-9	HALL
L-10	VESTIBULE
L-11	JANITOR
L-12	VESTIBULE
L-13	WOMEN'S
L-14	MEN'S
L-15	SEATING
L-16	ENTRY HALL
L-17	LOBBY
L-18	FOYER
L-19	HISTORICAL ROOM
L-20	SINK CLOSET
L-21	ACTIVITY ROOM
L-22	A.V. STORAGE
L-23	STORAGE
L-24	ADULT SUPPORT ROOM
L-25	LIBRARIAN
L-26	ADULT READING
L-27	CORRIDOR
L-28	ADULT STACK

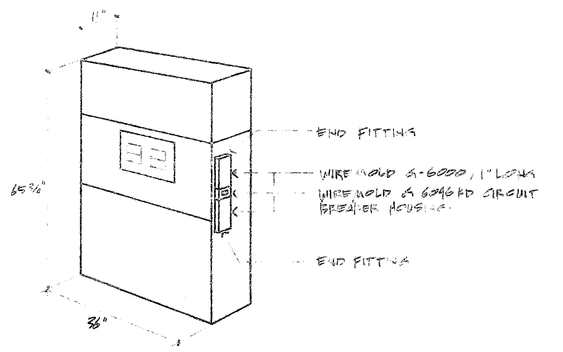


2/E-5 ELECTRICAL ROOM PLAN
SCALE: 1/4" = 1'-0"

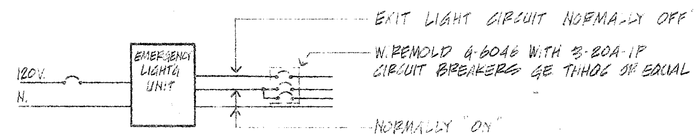
1/E-5 POWER/TELEPHONE FLOOR PLAN - LIBRARY
SCALE: 1/8" = 1'-0"

CONSTRUCTION NOTES

1. 3/4" C.O.
2. 1" C.O.
3. 1" C.O. TTB1
4. 1-1/4" C.O. TTB1
5. 3/4" C - 1A
6. LOCATE CENTER @ +6" ABOVE TOP OF BACKSPLASH.
7. 3/4" C.O. TO NEAREST ACCESSIBLE METALLIC C.W. PIPE GROUND.
8. TELEPHONE SERVICE ENTRANCE STUB-UP (2" A.F.F.) @ LOWER LEFT CORNER OF BACKBOARD.
9. LOCATE AS DIRECTED BY PT&T CO.
10. PROVIDE OUTLET, DEVICE AND CORD CAP OF CONFIGURATION TO MATCH COPIER INSTALLED. VERIFY ALL REQUIREMENTS PRIOR TO ROUGH-IN AND INSTALL ACCORDINGLY.
11. LOCATE FOR AND CONNECT AS REQUIRED. RANGE/OVEN UNIT. 10 KW, 120/240V, 1Ø.
12. LOCATE AND CONNECT AS REQUIRED FOR RANGE HOOD UNIT.
13. LOCATE AND CONNECT AS REQUIRED FOR MOTORIZED MOVIE SCREEN. VERIFY ALL REQUIREMENTS PRIOR TO ROUGH-IN AND INSTALL ACCORDINGLY.
14. LOCATE FOR MOVIE SCREEN OPERATION - ENGINE PLATE TO READ "MOVIE SCREEN - UP-DOWN". FILL IN LETTERING WITH BLACK PAINT.
15. VERIFY EXACT PLACEMENT OF ALL FLUSH FLOOR DEVICES WITH ARCH/OWNER PRIOR TO ROUGH-IN AND INSTALL ACCORDINGLY.
16. WIREMOLD #G-4000 PARTITIONED PLUGMOLD STRIP WITH 15A, 120V, GRD. DUPLEX RECEPTACLES AND GROMETTED TELEPHONE HOLES WHERE SHOWN ON PLAN.
17. CONNECT ROOF MTD. A/C-1: 113.3 FLA, 208V, 3Ø.
18. CONNECT ROOF MTD. A/C-2: 30.8 FLA, 208V, 3Ø.
19. CONNECT ROOF MTD. A/C-3: 57.0 FLA, 208V, 3Ø.
20. CONNECT ROOF MTD. A/C-4: 172 FLA, 208V, 3Ø.
21. CONNECT ROOF MTD. A/C-5: 57 FLA, 208V, 3Ø.
22. CONNECT ROOF MTD. W.P. RECEPTACLE ADJACENT TO MECH. EQUIPMENT.
23. LOCATE AS REQ'D. & LINE TOP OF EXIT ALARM SYSTEM. VERIFY ALL REQUIREMENTS WITH ARCH. PRIOR TO ROUGH-IN AND INSTALL AND CONNECT ACCORDINGLY.
24. STUB UP UNDER COUNTER AS INDICATED BY ARCH. FOR DATA COMMUNICATION SYSTEM.
25. [illegible] BLOCK [illegible] BY ALARM SYSTEM [illegible] BY [illegible] CONTRACTOR [illegible] TO [illegible] IN
26. [illegible] TO MASTER PAGING STATION
27. MASTER PAGING STATION
28. MECH. EQUIPMENT CONTROL PANEL BY MECH. CONTRACTOR.



5/E-5 EMERGENCY LTG. UNIT "EMLA" & "EMLB"
N.T.S.



4/E-5 WIRING DIAGRAM EMERGENCY LIGHTING UNIT "EMLA" & "EMLB"
N.T.S.

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LIBRARY POWER / TELEPHONE FLOOR PLAN

JOB	SHEET	DATE	REV
8107	E-5	8-24-81	

VOLTS: 120/208Y, 3Ø, 4W PANEL: RA SURFACE MOUNT
TYPE: NLAB - 100A BUSSING

LOAD	TRIP	CT	ABC	CT	TRIP	LOAD
LTS L-26	20A-1P	1		2	20A-1P	LTS L-16
LTS L-26	20A-1P	3		4	20A-1P	LTS L-16
L-27	20A-1P	5		6	20A-1P	LTS L-7
LTS L-1	20A-1P	7		8	20A-1P	LTS L-7
LTS L-1	20A-1P	9		10	20A-1P	LTS L-7
LTS L-2	20A-1P	11		12	20A-1P	LTS L-3
LTS L-8	20A-1P	13		14	20A-1P	LTS L-3
EMERG. LTS	20A-1P	15		16	20A-1P	LTS L-4
REST ROOM LTS	20A-1P	17		18	20A-1P	LTS L-5
SPARE	20A-1P	19		20	20A-1P	LTS L-5
SPARE	20A-1P	21		22	20A-2P	PARK'G LTS
SPARE	20A-1P	23		24	--	""
EMERG.POWER STATION	30A-1P	25		26	20A-1P	EXTERIOR
SPARE	20A-1P	27		28	20A-1P	EXTERIOR
SPARE	20A-1P	29		30	20A-1P	EXTERIOR
SPARE	20A-1P	31		32	20A-1P	LTS L-18
SPARE	20A-1P	33		34	20A-1P	LTS L-18
SPARE	20A-1P	35		36	20A-1P	SPARE
SPACE	20A-1P	37		38	20A-1P	SPACE
SPACE	20A-1P	39		40	20A-1P	SPACE
EXTERIOR LTG. CONTROL	20A-1P	41		42	20A-1P	SPACE

① ON EXTERIOR LTG "NL" RELAY - ZENITH #NCS-2P
② ON EXTERIOR LTG. "EL" RELAY ZENITH #NCS-3P

VOLTS: 120/208Y, 3Ø, 4W PANEL: RB SURFACE MOUNT
TYPE: NLAB - 100A BUSSING

LOAD	TRIP	CT	ABC	CT	TRIP	LOAD
RECEPT-CHILD'NS	20A-1P	1		2	20A-1P	RECEPT STAFF
RECEPT-CHILD'NS	20A-1P	3		4	20A-1P	RECEPT STAFF
RECEPT-CHILD'NS	20A-1P	5		6	20A-1P	RECEPT STAFF
RECEPT-CHILD'NS	20A-1P	7		8	20A-1P	RECEPT STAFF
RECEPT-CHILD'NS	20A-1P	9		10	20A-1P	RECEPT STAFF
RECEPT-CHILD'NS	20A-1P	11		12	20A-1P	RECEPT LOUNGE
RECEPT WORK RM	20A-1P	13		14	20A-1P	RECEPT ENTRY
RECEPT WORK RM	20A-1P	15		16	20A-1P	RECEPT TTB1
RECEPT WORK RM	20A-1P	17		18	20A-1P	RECEPT TTB1
RECEPT COUNTER	20A-1P	19		20	30A-3P	WATER HEATER
RECEPT COUNTER	20A-1P	21		22	--	""
RECEPT COUNTER	20A-1P	23		24	--	""
TELEPHONE BACKBOARD	20A-1P	25		26	20A-1P	EXH FAN L-11 EF-1
EMERG. POWER STATION	20A-1P	27		28	20A-1P	SPARE
MECH EQUIP CONTROL PNL	20A-1P	29		30	20A-1P	SPARE
SPARE	20A-1P	31		32	20A-1P	SPARE
SPARE	20A-1P	33		34	20A-1P	SPARE
SPARE	20A-1P	35		36	20A-1P	SPARE
SPACE	20A-1P	37		38	30A-3P	ELEC.WATER HEATER
SPACE	20A-1P	39		40	--	""
SPACE	20A-1P	41		42	--	""

VOLTS: 120/208Y, 3Ø, 4W PANEL: RC FLUSH MOUNT
TYPE: NLAB - 225A BUSSING

LOAD	TRIP	CT	ABC	CT	TRIP	LOAD
RECEPT. STACKS	20A-1P	1		2	30A-2P	COPIER MACHINE
RECEPT. STACKS	20A-1P	3		4	--	""
RECEPT. STACKS	20A-1P	5		6	20A-1P	COPIER MACHINE
RECEPT. STACKS	20A-1P	7		8	20A-1P	RECEP OFFICE
RECEPT. STACKS	20A-1P	9		10	20A-1P	RECEP OFFICE
RECEPT. STACKS	20A-1P	11		12	20A-1P	RECEP OFFICE
RECEPT. STACKS	20A-1P	13		14	20A-1P	MOVIE SCREEN
RECEPT. STACKS	20A-1P	15		16	20A-1P	RECEPT COUNTER
RECEPT. STACKS	20A-1P	17		18	20A-1P	RECEPT COUNTER
LTS L-28	20A-1P	19		20	20A-1P	RECEPT ACTIVITY
LTS L-28	20A-1P	21		22	20A-1P	RECEPT ACTIVITY
LTS L-28	20A-1P	23		24	20A-1P	RECEPT ACTIVITY
LTS L-28	20A-1P	25		26	20A-1P	LTS-L-21
LTS L-19	20A-1P	27		28	20A-1P	LTS-L-21
LTS L-19	20A-1P	29		30	20A-1P	LTS-L-21
LTS	20A-1P	31	①	32	20A-1P	LTS-L-21
LTG. OUTDOOR	20A-1P	33		34	20A-1P	SPARE
WP REC POLICE PK'ING	20A-1P	35		36	20A-1P	SPARE
LTG. OUTDOOR	20A-1P	37		38	30A-3P	ELEC.WTR.HTR.
SPARE	20A-1P	39		40	--	""
EXTERIOR LTG CONTROL	20A-1P	41		42	--	""

① ON EXTERIOR LTG "NL" RELAY - ZENITH #NCS-1P

VOLTS: 120/208Y, 3Ø, 4W PANEL: RD SURFACE MOUNT
TYPE: NLAB - 100A BUSSING

LOAD	TRIP	CT	ABC	CT	TRIP	LOAD
LTS C-20,22,23,24,25	20A-1P	1		2	20A-1P	LTS C-44,45,46
LTS C-25,29,32,33	20A-1P	3		4	30A-1P	LTS C-35,36,37,38
LTS C-34	20A-1P	5		6	20A-1P	LTS C-41,42,43
LTS C-40	20A-1P	7		8	20A-1P	PATIO LIGHTING
LTS C-40	20A-1P	9		10	20A-1P	PATIO LIGHTING
LTS C-40	20A-1P	11		12	20A-1P	PATIO LIGHTING
LTS C-40	20A-1P	13		14	20A-1P	PATIO LIGHTING
LOBBY C-34	20A-1P	15		16	20A-1P	LTG C-40
EMERG.POW.STATION	30A-1P	17		18	20A-1P	LTG C-40
ENTRY LIGHTING	20A-1P	19	②	20	20A-1P	LTG C-40
FIRE ALARM PANEL	20A-1P	21		22	20A-1P	LTG. C-40
SPARE	20A-1P	23		24	20A-1P	SPARE
SPARE	20A-1P	25		26	20A-1P	SPARE
SPARE	20A-1P	27		28	20A-1P	SPARE
SPARE	20A-1P	29		30	20A-1P	SPACE
SPACE	20A-1P	31		32	20A-1P	SPACE
SPACE	20A-1P	33		34	20A-1P	SPACE
SPACE	20A-1P	35		36	20A-1P	SPACE
SPACE	20A-1P	37		38	20A-1P	SPACE
SPACE	20A-1P	39		40	20A-1P	SPACE
EXTERIOR LTG CONTROL	20A-1P	41		42	20A-1P	SPACE

① ON EXTERIOR LTG "EL" RELAY ZENITH #NCS-4P
② ON EXTERIOR LTG "EL" RELAY ZENITH #NCS-1P

VOLTS: 120/208Y, 3Ø, 4W PANEL: RE SURFACE MOUNT
TYPE: NLAB - 100A BUSSING

LOAD	TRIP	CT	ABC	CT	TRIP	LOAD
RECPT CIRCUIT	20A-1P	1		2	20A-1P	OUTDOOR LIGHTS
RECPT CIRCUIT	20A-1P	3		4	20A-1P	OUTDOOR LIGHTS
RECPT CIRCUIT	20A-1P	5		6	20A-2P	OUTDOOR LIGHTS
FIRE ALARM PANEL	20A-1P	7		8	--	""
POWER FOR 2ND FLOOR STAGE	100A-3P	9		10	100A-3P	POWER FOR OUTDOOR STAGE
" "	--	11		12	--	" "
" "	--	13		14	--	" "
SPACE	20A-1P	15		16	20A-1P	DUPLEX RECPT. OUTDR STAGE
SPACE	20A-1P	17		18	20A-1P	SPARE
SPACE	20A-1P	19		20	20A-1P	SPACE
SPACE	20A-1P	21		22	20A-1P	SPACE
EXTERIOR LTG CONTROL	20A-1P	23		24	20A-1P	SPACE

① ON EXTERIOR LTG "EL" RELAY - ZENITH #NCS-3P
② ON EXTERIOR LTG "NL" RELAY - ZENITH #NCS-2P

VOLTS: 120/208Y, 3Ø, 4W PANEL: RF FLUSH MOUNT
TYPE: NLAB - 225A BUSSING

LOAD	TRIP	CT	ABC	CT	TRIP	LOAD
RECPT CIRCUIT	20A-1P	1		2	20A-1P	RECEPT CIRCUIT
RECPT CIRCUIT	20A-1P	3		4	20A-1P	RECEPT CIRCUIT
RECPT CIRCUIT	20A-1P	5		6	20A-1P	RECEPT CIRCUIT
RECPT CIRCUIT	20A-1P	7		8	20A-1P	RECEPT CIRCUIT
RECPT CIRCUIT	20A-1P	9		10	20A-1P	RECEPT CIRCUIT
LTS C-1 & C-2	20A-1P	11		12	20A-1P	RECEPT CIRCUIT
LTS C-1 & C-2	20A-1P	13		14	20A-1P	LTS C-16
LTS C-3 C-4	20A-1P	15		16	20A-1P	LTS C-16
LTS C-4 C-5	20A-1P	17		18	20A-1P	LTS C-6, C-7
LTS C-11	20A-1P	19		20	20A-1P	LTS C-18
LTS C-12	20A-1P	21		22	20A-1P	LTS C-17
LTS C-12	20A-1P	23		24	20A-1P	CORRIDOR LTS
MECH EQUIP CONTROL PNL	20A-1P	25		26	20A-1P	OUTDOOR LTS
IRRIGATION CONTROL	20A-1P	27		28	20A-1P	SPARE
SPARE	20A-1P	29		30	20A-1P	SPARE
SPACE	20A-1P	31		32	20A-1P	SPACE
SPACE	20A-1P	33		34	20A-1P	SPACE
SPACE	20A-1P	35		36	20A-1P	SPACE
SPACE	20A-1P	37		38	20A-1P	SPACE
SPACE	20A-1P	39		40	20A-1P	SPACE
EXTERIOR LTG CONTROL	20A-1P	41		42	20A-1P	SPACE

① ON EXTERIOR LTG. "EL" RELAY - ZENITH #NCS-1P

VOLTS: 120/208Y, 3Ø, 4W PANEL: RG FLUSH MOUNT
TYPE: NLAB - 225A BUSSING

LOAD	TRIP	CT	ABC	CT	TRIP	LOAD
RECEPT TABLE	20A-1P	1		2	20A-1P	REFR'G/FRZR
RECEPT TABLE	20A-1P	3		4	20A-1P	REFRIGERATOR
RECEPT COUNTER	20A-1P	5		6	40A-2P	MICROWAVE OVEN
RECEPT COUNTER	20A-1P	7		8	--	""
RECEPT COUNTER	20A-1P	9		10	60A-2P	RANGE/OVEN
RECEPT DISHW'R	20A-1P	11		12	--	""
RECEPT HOODS	20A-1P	13		14	60A-2P	RANGE/OVEN
RECPT COUNTER	20A-1P	15		16	--	""
RECPT COUNTER	20A-1P	17		18	20A-1P	EF-1 C-20
RECEPT DISPOSAL	20A-1P	19		20	20A-3P	WATER HEATER
WTR HEATER PUMP	20A-1P	21		22	--	""
SPARE	20A-1P	23		24	--	""
SPACE	20A-1P	25		26	20A-1P	EF-2 ON ROOF
SPACE	20A-1P	27		28	20A-1P	SPARE
SPACE	20A-1P	29		30	20A-1P	SPARE
SPACE	20A-1P	31		32	20A-1P	SPARE
SPACE	20A-1P	33		34	20A-1P	SPACE
SPACE	20A-1P	35		36	20A-1P	SPACE
SPACE	20A-1P	37		38	20A-1P	SPACE
SPACE	20A-1P	39		40	20A-1P	SPACE
SPACE	20A-1P	41		42	20A-1P	SPACE

VOLTS: 208 Δ, 3Ø, 3W PANEL: AC1 SPECIAL MOUNT
TYPE: FDP - 225A BUSSING NEMA-3R

LOAD	TRIP	CT	ABC	CT	TRIP	LOAD
AIR COND A.C-2	①A-3P	1		2	①A-3P	AIR COND.A/C-3
""	--	3		4	--	""
""	--	5		6	--	""
AIR COND. A/C-5	①A-3P	7		8	60A-3P	SPACE
""	--	9		10	--	""
""	--	11		12	--	""
SPACE	60A-3P	13		14	60A-3P	SPACE
""	--	15		16	--	""
""	--	17		18	--	""

① PROVIDE DUAL ELEMENT TYPE FUSES SIZED PER DATA ON NAMEPLATE OF INSTALLED EQUIPMENT

VOLTS: 208 Δ, 3Ø, 3W PANEL: AC2 SPECIAL MOUNT
TYPE: FDP - 400A BUSSING NEMA 3R

LOAD	TRIP	CT	ABC	CT	TRIP	LOAD
AIR COND.A/C-1	①A-3P	1		2	①A-3P	AIR COND.A/C-2
""	--	3		4	--	""
""	--	5		6	--	""
AIR COND A/C-3	①A-3P	7		8	①A-3P	AIR COND A/C-4
""	--	9		10	--	""
""	--	11		12	--	""
AIR COND. A/C-5	①A-3P	13		14	①A-3P	AIR COND. A/C-6
""	--	15		16	--	""
""	--	17		18	--	""
SPACE	①A-3P	19		20	①A-3P	SPACE
""	--	21		22	--	""
""	--	23		24	--	""

① PROVIDE DUAL ELEMENT TYPE FUSES SIZED PER DATA ON NAMEPLATE OF INSTALLED EQUIPMENT

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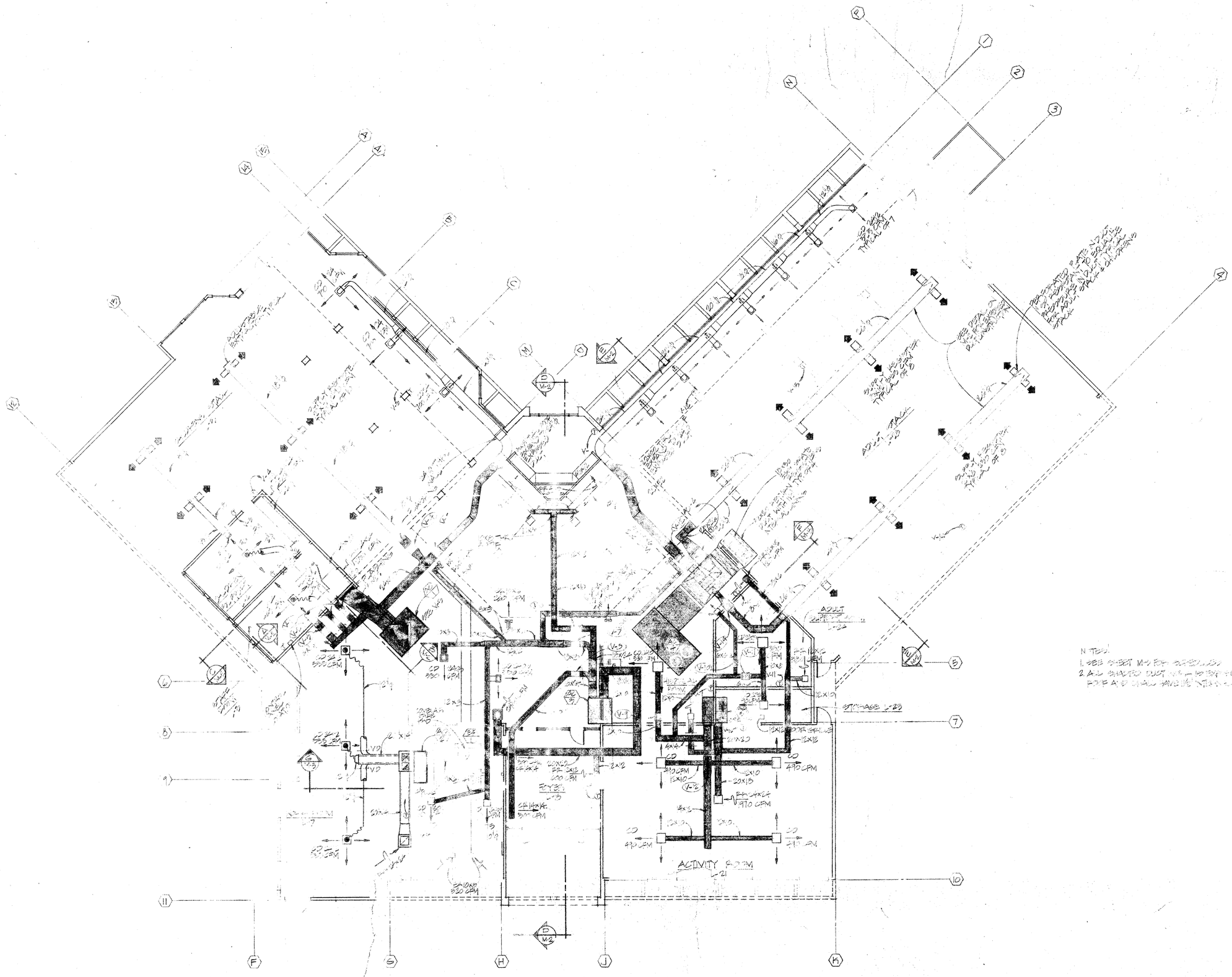
GOOD WORK

LIBRARY and COMMUNITY BUILDINGS
MILPITAS CIVIC CENTER
455 E. CALAVERAS BLVD. MILPITAS, CALIF.

FIXTURE SCHEDULE

REV	DATE	SHEET	JOB
	8-4-81	E-8	1407



LIBRARY MECHANICAL PLAN

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

N. TEN.
1. SEE SHEET M-1 FOR SCHEDULES
2. ALL SHEETED DUCT [illegible]
FOR ALL SHEET METAL WORK

RMT ENGINEERS INCORPORATED
RICHARD M. TRAINER ENGINEERS INC.
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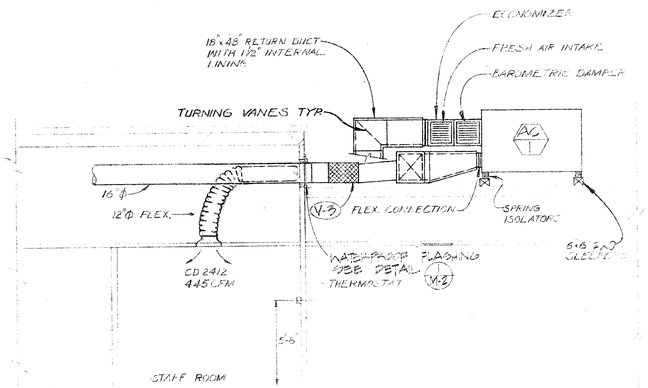
LIBRARY and COMMUNITY BUILDINGS
MILPITAS CIVIC CENTER
455 E. CALAVERAS BLVD., MILPITAS, CALIF.

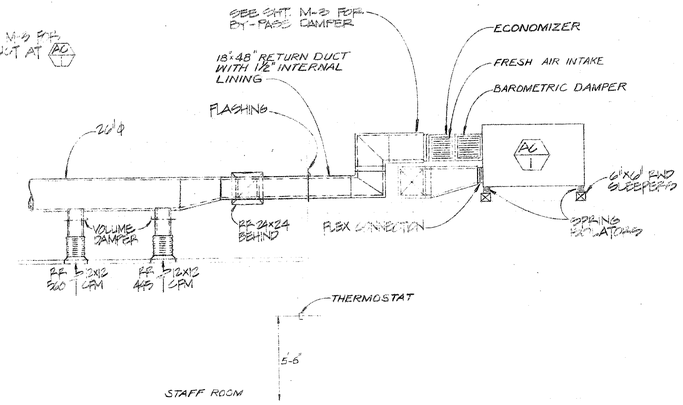
LIBRARY
MECHANICAL

JOB	SHEET	DATE	REV
8107	M1	8-4-81	

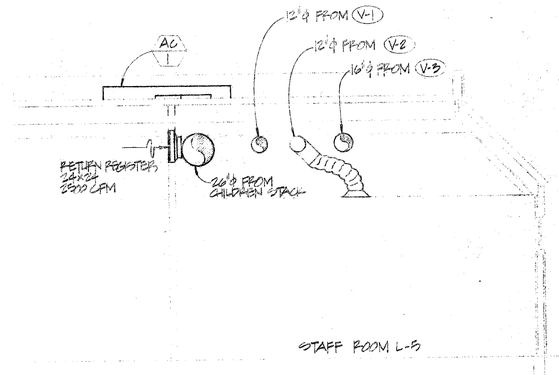


SECTION A M-2
SCALE: 1/4"=1'-0"

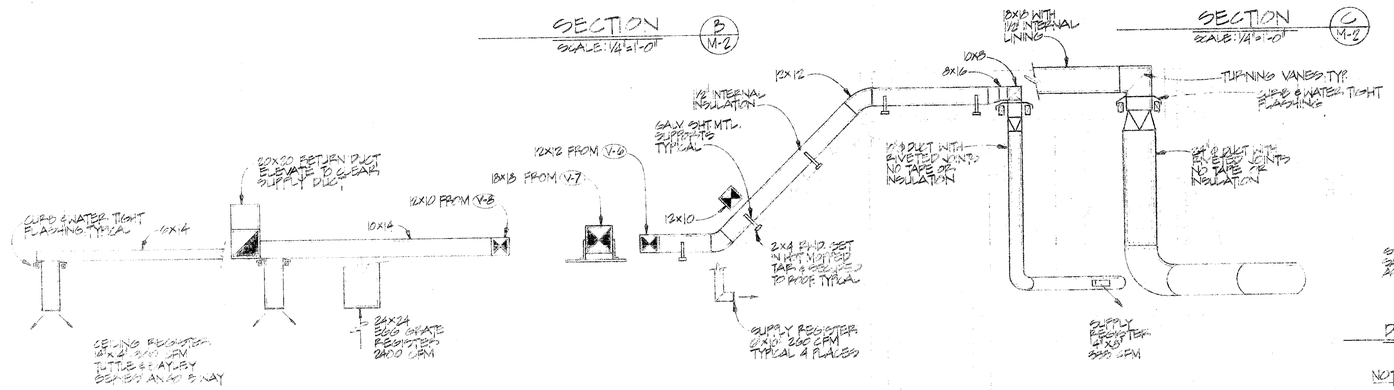
NOTE: SEE SHEET M-3 FOR BY-PASS DUCT AT PC



SECTION B M-2
SCALE: 1/4"=1'-0"



SECTION C M-2
SCALE: 1/4"=1'-0"



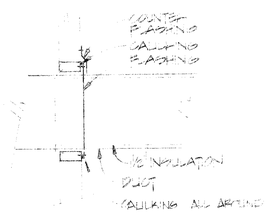
DETAIL OF EXPOSED DUCT
NO SCALE

NOTE: DUCTS TO BE PAINTED AS DIRECTED BY ARCHITECT

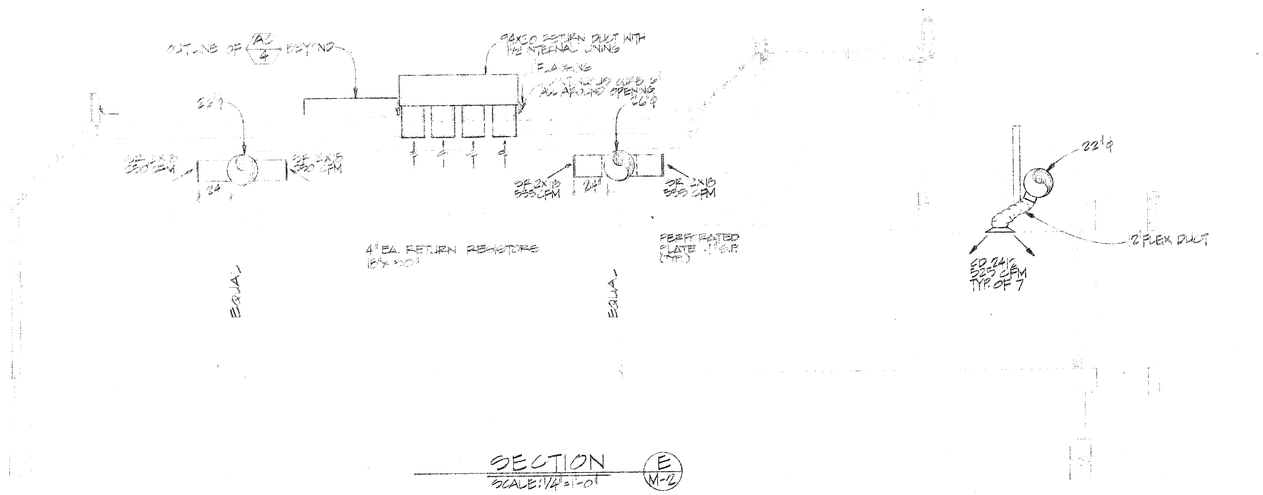
FOYER

SEATING AREA

SECTION D M-2
SCALE: 1/4"=1'-0"



TYPICAL DUCT PENETRATION THRU WALL DETAIL
NO SCALE
V-2



SECTION E M-2
SCALE: 1/4"=1'-0"

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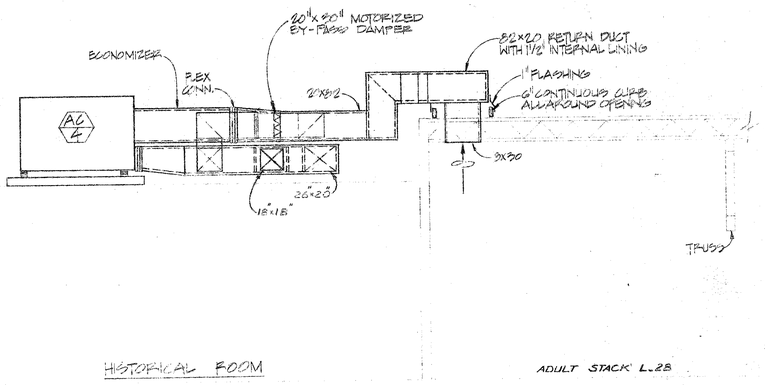
LIBRARY and COMMUNITY BUILDINGS
MILPITAS CIVIC CENTER
455 E. CALAVERAS BLVD. MILPITAS, CALIF.

LIBRARY MECHANICAL HEATING

JOB	SHEET	DATE	REV
8107	M 2	8-4-81	

AIR CONDITIONING UNIT SCHEDULE LIBRARY

MARK	SERVICE	MANUFACTURER & MODEL NO.	ECONOMIZER	CFM	SP	TOTAL COOLING CAP BTUH	HEATING CAPACITY INPUT BTUH	TOTAL UNIT AMPS	VOLT PHASE	INDOOR FAN HP	MIN OSA CFM	EER	UNIT WEIGHT	REMARKS
AC 1	CHILDREN'S STACK CHILD SUPPORT STAFF ROOM	CARRIER MODEL 48DD016	STILES MODEL HE-[illegible]-[illegible]	6600	.5	78,000	360,000	193	208/3	3	840	8.1	2450#	
AC 2	WORK ROOM	CARRIER MODEL 48GL048	STILES [illegible]-GL-48-26	1600	.5	47,000	80,000	30.5			310	8.1	650#	STILES DPR-GL-48020 PLENUM & PLATFORM & DPR-GL-48026 COPES
AC 3	ENTRY	CARRIER MODEL 48EG005	STILES 75-44-134 75-46-44	3365	.5	98,000	225,000	37		3	640		1030#	
AC 4	ADULT STACK	CARRIER MODEL 48DF063	100% RELIEF CAPABILITY	10,200	.6	508,000	575,000	174		7½	960		4900#	PROVIDE SMOKE & FIRE STAT
AC 5	ACTIVITY ROOM	CARRIER MODEL 48EG005	STILES 75-44-134 75-46-44	3600	.5	98,000	225,000	37		3	840		1030#	



SECTION (F / M-3)
SCALE: 1/4"=1'-0"

VARIABLE AIR VOLUME BOXES SCHEDULE LIBRARY

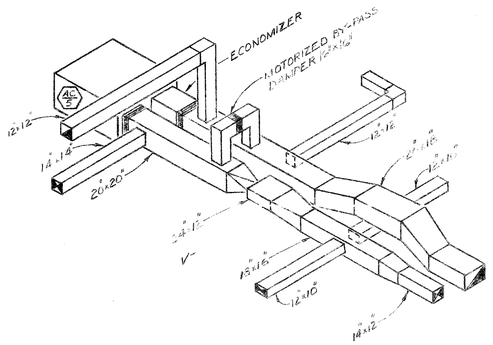
MARK	SERVICE	MODEL	CFM	MAX PRIM @ FULL CFM	MAX NC @ FULL CFM	INLET SIZE	REMARKS
V-1	[illegible]	600	500	—	—	7 ?	
V-2	STAFF ROOM [illegible]	600	440	—	—	7 ?	
V-3	CHILDREN'S STACK [illegible]	200	1150	[illegible]	[illegible]	[illegible]	
V-4	CHILDREN STACK	200	720	[illegible]	—	[illegible]	
V-5	CHILDREN READING	[illegible]	[illegible]	[illegible]	—	6 [illegible]	
V-6	SEATING [illegible]	[illegible]	[illegible]	[illegible]	—	[illegible]	
V-7	ENTRY	300	[illegible]	[illegible]	—	[illegible]	
V-8	FOYER [illegible]	600	600	—	—	7 [illegible]	
V-9	HISTORICAL	600	300			7 ?	
V-10	LIBRARIAN	200	30			2 ?	
V-11	ADULT SUPPORT ROOM	600	470			7 ?	
V-12	ADULT READING	200	875	.5"		20"	
V-13	ADULT STACK	600	430	.7"		30	
V-14	ADULT STACK	300	200	.5"	—	20"	

EQUIPMENT

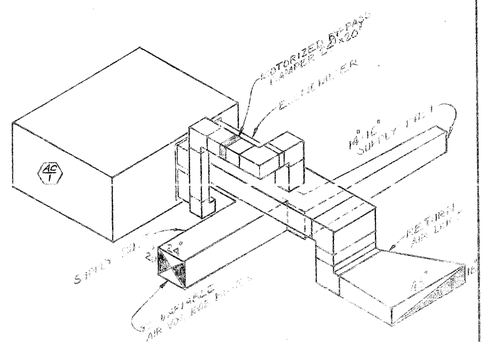
1. VARIABLE AIR VOLUME BOXES SHALL BE TEMP MASTER TYPE S DESIGN S. DAMPER MOTORS AND CHANGE-OVER THERMOSTATS TO BE FURNISHED BY CONTROL CONTRACTOR. MECHANICAL CONTRACTOR SHALL PROVIDE WEATHER PROOF SHEET METAL COVERS FOR BOXES EXPOSED TO WEATHER.
2. CD, CEILING DIFFUSER SHALL BE TUTTLE & BAILEY PERFORATED FULL FLOW ROUND NECK CTE-FF-D WITH CT-4 DAMPER. VERIFY TYPE AT CEILING BEFORE ORDERING.
3. ER,RR, EXHAUST REGISTERS RETURN REGISTERS SHALL BE TUTTLE & BAILEY SERIES CR500.
4. CR, CEILING SUPPLY REGISTERS SHALL BE TUTTLE & BAILEY SERIES AN40.
5. SR, SUPPLY REGISTERS SHALL BE TUTTLE & BAILEY SERIES T50 HORIZONTAL FACE BARS.
6. ALL REGISTERS, DIFFUSERS, ETC. SHALL BE PRIMED FOR FIELD PAINTING. COLOR TO BE SELECTED BY ARCHITECT.

LIBRARY

EXHAUST FAN, JENN-AIR MODEL 142 BCR, 640 CFM AT 1/4" SP, 1/6 HP, 120 V, 1Ø. FAN SHALL BE COMPLETE WITH PREFABRICATED CURB, BIRD SCREEN, BACK DRAFT DAMPER AND DISCONNECT SWITCH.



DETAIL OF (AC / E2)
NO SCALE



DETAIL OF (AC / J)
NO SCALE

NOTE: 1. ALL DUCT WORK EXPOSED TO WEATHER TO HAVE 1 1/2" INTERNAL LINING.

2. ALL EXPOSED DUCTWORK INTERIOR AND EXTERIOR TO BE PAINTED. COLOR AS SELECTED BY ARCHITECT.

TEMPERATURE CONTROL SYSTEM

THE MECHANICAL CONTRACTOR SHALL PROVIDE COMPLETE SYSTEMS OF AUTOMATIC TEMPERATURE CONTROLS. SYSTEM SHALL INCLUDE, BUT NOT BE LIMITED TO, ALL CONTROL DEVICES, THERMOSTATS, OUTDOOR CONTROLLERS, CONTROL VALVES, CONTROL DAMPERS, DAMPER MOTORS, RELAYS, TIME CLOCKS AND OTHER COMPONENTS REQUIRED FOR THE COMPLETE AND OPERABLE TEMPERATURE CONTROL SYSTEMS.

A. TEMPERATURE CONTROL EQUIPMENT SHALL BE AUTOMATIC CONTROLS, ENGINEERING, INC.

B. THERMOSTATS SHALL BE LOW VOLTAGE AND SHALL BE INSTALLED INSIDE TAMPERPROOF ACRYLIC COVERS.

C. PROVIDE AND INSTALL ALL LINE AND LOW VOLTAGE WIRING THAT IS NECESSARY FOR THE CONTROL SYSTEM. WIRING SHALL BE PER LOCAL CODES EXCEPT ALL WIRING EXPOSED TO WEATHER SHALL BE IN CONDUITS. NO EXPOSED WIRING IN FINISHED AREAS WILL BE ACCEPTED.

D. CALIBRATE ALL DEVICES, MAKE ALL FINAL SETTINGS AND TEST THE CONTROL SYSTEMS UNDER OPERATING CONDITIONS FOR SATISFACTORY OPERATION.

E. INSTRUCT THE OPERATING PERSONNEL IN OPERATING AND MAINTENANCE OF THE CONTROL SYSTEM AND PROVIDE A MANUAL WHICH SHALL INCLUDE CONTROL DIAGRAMS, CONTROL SEQUENCE AND AN INSTRUCTION SHEET FOR EACH DIFFERENT CONTROL SEQUENCE FURNISHED.

F. ZONE CONTROL SHALL BE AS SHOWN ON DRAWINGS AND AS HEREINAFTER DESCRIBED.

VAV SEQUENCE - TEMPERATURE CONTROL PANEL

SEMI-RECESSED

TWO TEMPERATURE SYSTEMS ARE REQUIRED, ONE FOR THE LIBRARY AND ONE FOR THE COMMUNITY CENTER.

OFF CYCLE

EACH SYSTEM SHALL BE STARTED BY A W7010 MICROPROCESSOR TIME CLOCK WITH OVERRIDE SWITCHES. INDICATOR LIGHTS LABLED "SYSTEM ON" WILL BE ON THE FRONT OF THE PANEL. TIME CLOCK PANEL WILL BE CAPABLE OF STARTING ENTIRE VAV SYSTEM AND EXHAUST FANS. THE PANEL SHALL BE NEMA 1, SEMI-RECESSED MOUNTED WITH LOCKABLE DOOR. WHEN IN THE "OFF" CYCLE, THE BYPASS DAMPER ON AC UNITS SHALL INDEX TO THE FULL OPEN POSITION.

WARMUP CYCLE

A THERMOSTAT MOUNTED IN THE RETURN AIR SET AT 72° F SHALL LOCK OUT ECONOMIZER AND THE COOLING MODE. VAV BOXES SHALL OPEN 100% TO ALLOW A FAST WARMUP. HEATING UNIT WILL BE CYCLED FROM THE WARMUP THERMOSTAT.

VAV SEQUENCE

WHEN THE WARMUP CYCLE IS COMPLETED, THE VAV BOXES WILL BE UNDER CONTROL OF THEIR RESPECTIVE THERMOSTATS. A STATIC PRESSURE PROBE MOUNTED 2/3 DOWNSTREAM FROM THE AIR HANDLER WILL INDEX THE BYPASS DAMPER MOTOR TO COMPENSATE FOR INCREASING DUCT PRESSURE DUE TO VAV ZONES CLOSING. LOW LIMIT THERMOSTAT SHALL BE MOUNTED IN MIXED AIR DUCT AND SET AT 55° TO ENSURE FREEZE PROTECTION.

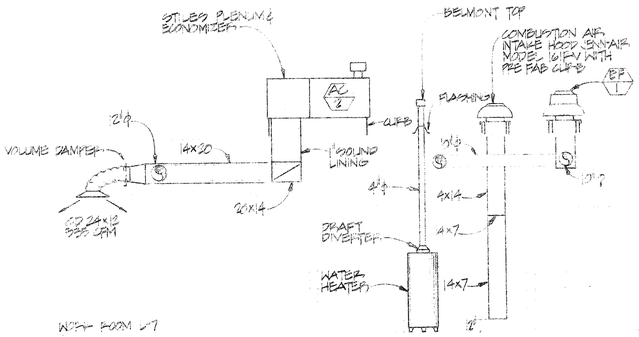
HEATING, ECONOMIZER AND COOLING WILL BE MAINTAINED FROM A DISCHARGE THERMOSTAT RESETABLE FROM OUTDOOR AIR. THE COOLING SEQUENCE SHOULD BE THAT THE ECONOMIZER SHOULD BE UTILIZED TO HANDLE THE DISCHARGE AIR TEMPERATURE. WHEN UNABLE TO DO SO, REFRIGERATION SHOULD COME ON THE LINE. RESET RATIO TO 1 TO 1 1/2.

OA	DISCHARGE TEMP.
40° F	115° F
70° F	60° F
80° F	45° F

EACH VAV BOX SHALL BE EQUIPPED WITH A CHANGEOVER DUCT THERMOSTAT TO MAKE THE WALL THERMOSTAT DIRECT OR REVERSE ACTING, DEPENDING ON THE HEATING OR COOLING CYCLE.

THE TEMPERATURE CONTROL PANEL SHALL CONTAIN PRESSURE CONTROLS, STATIC PRESSURE GAUGES, TEMPERATURE CONTROLS, PRESSURE FILTER GAUGES FOR EACH A/C UNIT.

THERMOSTATS SHALL TERMINATE HEATING ABOVE 70° F AND COMPRESSOR OPERATION BELOW 78° F.



SECTION (G / M-3)
SCALE: 1/4"=1'-0"

JOHN M. B. STEINBERG ASSOCIATES
A R C H I T E C T S
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LIBRARY and COMMUNITY BUILDINGS
MILPITAS CIVIC CENTER
455 E. CALAVERAS BLVD., MILPITAS, CALIF.

LIBRARY - MECHANICAL SCHEDULES & DETAILS

JOB	SHEET	DATE	REV
8107	M3	8-4-81	

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CONSULTING ELECTRICAL & MECHANICAL ENGINEERS
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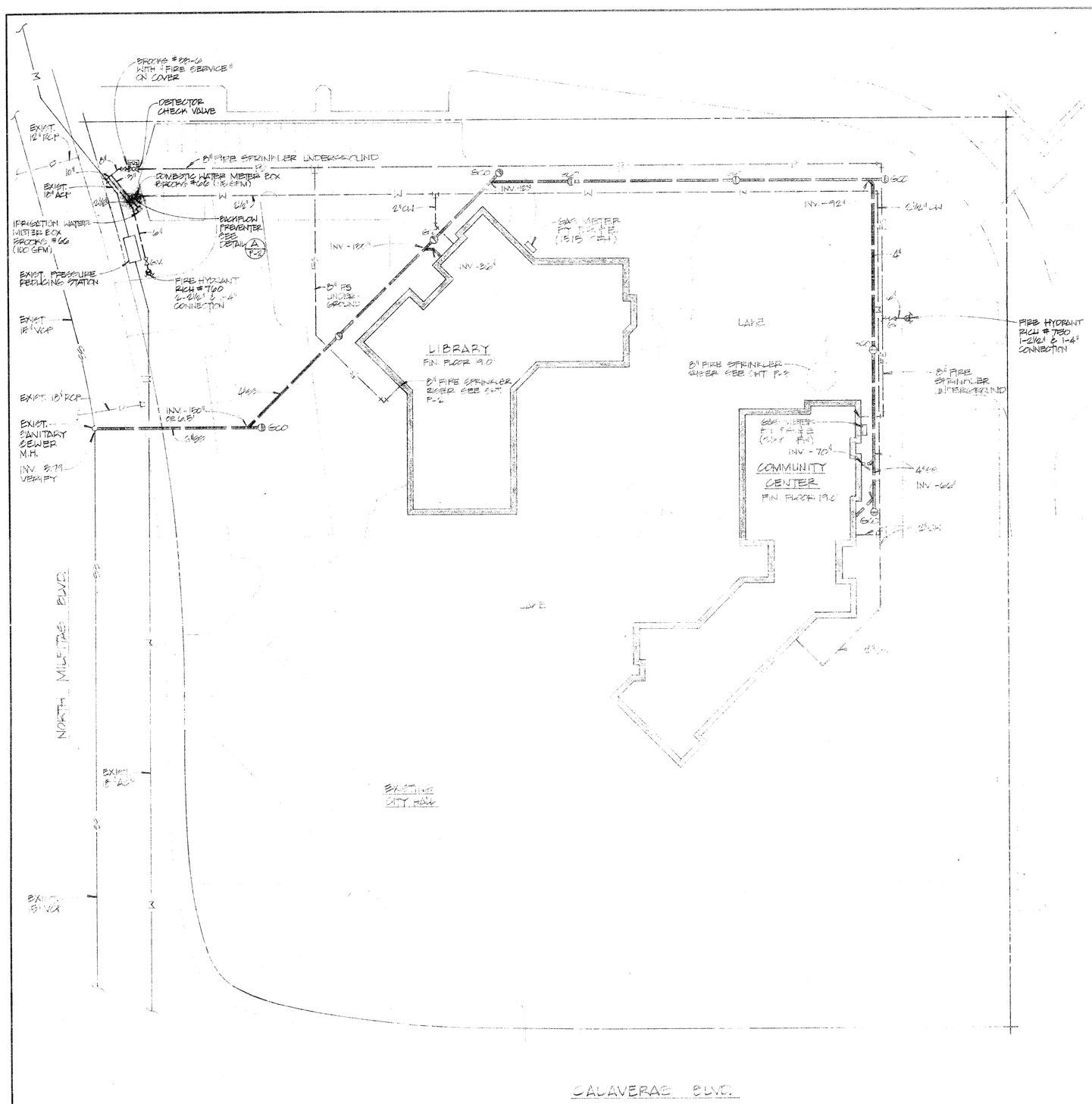
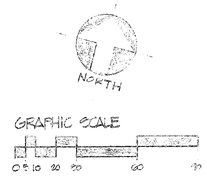


PLUMBING SITE PLAN

SCALE: 1" = 30'-0"



LEGEND

SYMBOL	ABBREVIATION	DESCRIPTION
	SS	SANITARY SEWER (UNDERGROUND)
	SS	SANITARY SEWER (ABOVE GROUND)
V	V	VENT
CW		COLD WATER
HW		HOT WATER
G		GAS
CD		CONDENSATE DRAIN
	G.V.	GATE VALVE
R.L.	R.W.L.	RAIN WATER LEADER
H.B.	H.B.	HOSE BIBB
FCO		FLOOR CLEAN OUT
GCO		GRADE CLEAN OUT
WCO		WALL CLEAN OUT
VTR		VENT THRU ROOF
RD		ROOF DRAIN
FD		FLOOR DRAIN

NOTES:

1. DETECTOR CHECK VALVE SHALL BE HERSEY DC, EPOXY LINED AND COATED.
2. REFER TO CITY OF MILPITAS STANDARD DRAWING NO. 44 FOR INSTALLATION DETAILS.
3. WATER METER SHALL BE FURNISHED AND INSTALLED BY THE DISTRICT AT THE EXPENSE OF THE CUSTOMER.
4. METER BOXES SHALL BE BROOKS PRODUCT "MILPITAS", NO. 66 WITH HEAVY COVER AND DEEPENED BASE WITH KNOCK-OUT BASE.
5. UNDERGROUND PIPES SHALL BE PROTECTED FROM CORROSION PER CITY OF MILPITAS, SPECIFICATION W4 DATED 4/78.

PLUMBING FIXTURE SCHEDULE

P-1 WATER CLOSET: AMERICAN STANDARD "AFWALL" 2477.016 ELONGATED BOWL-OFF THE FLOOR TOILET WITH SLOAN ROYAL 110 FLUSH VALVE & OLSONITE WHITE SEAT #10CC/SS.

P-2 URINAL: AMERICAN STANDARD "LYNBROOK" 6550.018 TOP SPUD WITH SLOAN ROYAL 180 FLUSH VALVE.

P-3 LAVATORY: AMERICAN STANDARD "RONDALYN" 0491.019 WITH 2379.018 AQUARIAN II POP-UP LAVATORY FAUCET & 4418.026 ADJUSTABLE "P" TRAP.

P-4 WATER COOLER: HAWS MODEL HWCL-10 DUAL HEIGHT WATER COOLER, 115 VOLTS, SINGLE PHASE.

P-5 SERVICE SINK: AMERICAN STANDARD "AKRON" 7695.018 WITH 8379.026 RIM GUARD, 8340.234 SERVICE SINK FAUCET, 7798.176 TRAP STANDARD.

P-6 SINK: ELKAY "PACEMAKER STARLITE" PSR 1720 STAINLESS STEEL SINK (PROVIDE ONE FAUCET HOLE) 20 GAUGE TYPE 302 SELF RIM, WITH LK-2223 DUAL HANDLED FAUCET AND LK-35 WASTE FITTING, PROVIDE ~~SPEEDWAY SUPPLIES~~

P-7 SINK: ELKAY "PACEMAKER STARLITE" PSR 1721 STAINLESS STEEL SINK (PROVIDE ONE FAUCET HOLE) 20 GAUGE TYPE 302 SELF RIM, WITH LK-2460 SINGLE LEVER FAUCET AND LK-35 WASTE FITTING, PROVIDE "P" TRAP & SPEEDWAY SUPPLIES.

P-8 SINK: ELKAY "PACEMAKER STARLITE" PSR 2522 STAINLESS STEEL SINK (PROVIDE THREE FAUCET HOLES) 20 GAUGE TYPE 302 SELF RIM, WITH LK-2100 SINGLE LEVER FAUCET AND LK-35 WASTE FITTING, PROVIDE "P" TRAP & SPEEDWAY SUPPLIES.

P-9 SINK: ELKAY "PACEMAKER STARLITE" PSR 1716 STAINLESS STEEL SINK (PROVIDE ONE FAUCET HOLE) 20 GAUGE TYPE 302 SELF RIM, WITH LK-2223 DUAL HANDLED FAUCET & LK-35 WASTE FITTING, PROVIDE "P" TRAP & SPEEDWAY SUPPLIES.

P-10 SINK: ELKAY "PACEMAKER STARLITE" PSR 3322 STAINLESS STEEL DOUBLE COMPARTMENT SINK (PROVIDE FOUR HOLES) 20 GAUGE TYPE 302 SELF RIM, WITH LK-2100 SINGLE LEVER FAUCET AND LK-35 WASTE FITTING, PROVIDE ELKAY MODEL LKD-80 1/2 HP GARBAGE DISPOSAL AND DISHWASHER VACUUM BREAKER, "P" TRAP & SPEEDWAY SUPPLIES.

P-11 SINK: ELKAY CUSTOM MADE SINGLE COMPARTMENT SINK 33" X 22" X 18" DEEP. #20 GAUGE TYPE 302 NICKEL BEARING STAINLESS STEEL, SELF RIM, WITH LK-2100 SINGLE LEVER FAUCET (PROVIDE THREE HOLES) AND LK-35 WASTE FITTING, PROVIDE "P" TRAP AND SPEEDWAY SUPPLIES.

W.H. WATER HEATER: NATIONAL MODEL N50AH GAS WATER HEATER 50 GAL. CAPACITY, 4" VENT & 50,000 BTUH INPUT.

H.B. HOSE BIBB: CHICAGO NO. 293 1/2" INLET FLANGED FEMALE WITH 3/4" HOSE THREAD OUTLET & REMOVEABLE TEE HANDLE.

FD FLOOR DRAIN: J.R. SMITH FIG. 2010-A, 2" OUTLET.

RD ROOF DRAIN: J.R. SMITH FIG. 1010 2" OUTLET.

RD-1 ROOF DRAIN: J.R. SMITH FIG. 1010 3" OUTLET.

RD-2 ROOF DRAIN: J.R. SMITH FIG. 1020 3" OUTLET.

RD-3 ROOF DRAIN: J.R. SMITH FIG. 1050 2" OUTLET.

RD-4 DISHWASHER: SPECIFIED BY ARCH.

RD-5 INTERCEPTOR: J.R. SMITH FIG. 3730 PLASTEEL INTERCEPTOR INSTALL WITH CLEARANCE FOR SEDIMENT BASKET REMOVAL.

RD-6 DEEP LIP BUTTON HAVE PROPETAL MODEL 3050-FP

RD-7 PLUMBING SHOP TO WATCH PROJECT & IS BID PACKAGE, BURT WATSON LINE WITH ROOF.

RMT ENGINEERS INC.
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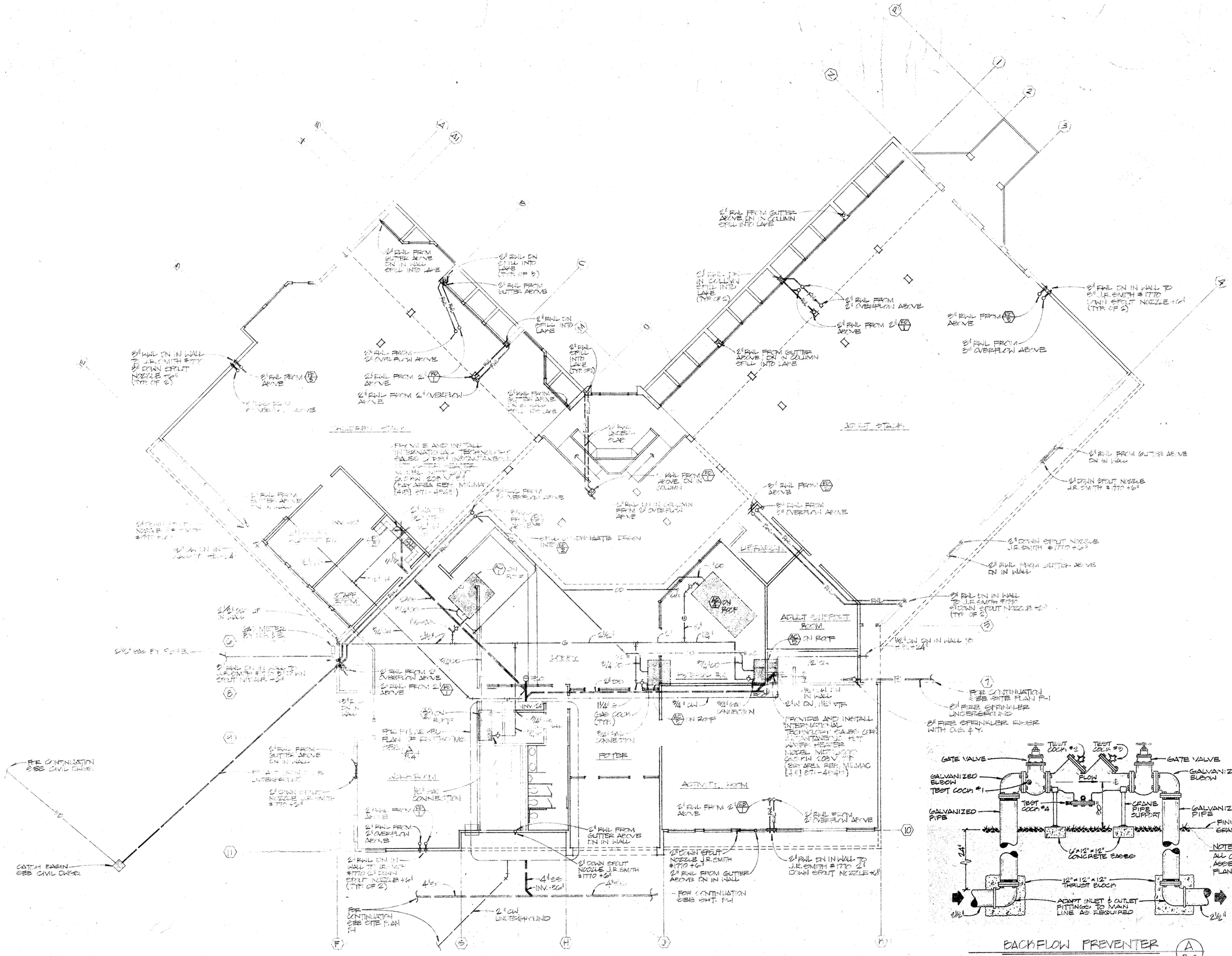
LIBRARY and COMMUNITY BUILDINGS
MILPITAS CIVIC CENTER
455 E. CALAVERAS BLVD. MILPITAS, CALIF.

PLUMBING SITE PLAN & SCHEDULE

JOB	SHEET	DATE	REV
8107	P-1	3-4-81	



LIBRARY PLUMBING PLAN

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

NOTE: ALL CONNECTIONS ON ASSEMBLY TO BE FLANGED

BACKFLOW PREVENTER (A / P-2)

NOT TO SCALE

BEELCO MODEL 6 CM 2½" MAXIMUM PRESSURE DROP 10 PSI. @ 115 GPM

RICHARD M. TRAINER ENGINEERS INC.
CONSULTING ELECTRICAL & MECHANICAL ENGINEERS
744 SAN ANTONIO RD., PALO ALTO, CA 94303 (415) 494-3560

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LIBRARY and COMMUNITY BUILDINGS
MILPITAS CIVIC CENTER
455 E. CALAVERAS BLVD. MILPITAS, CALIF.

LIBRARY PLUMBING PLAN

JOB	SHEET	DATE	REV
8107	P 2	8-4-81	

GENERAL NOTES

(APPLYING TO ALL STRUCTRUAL FEATURES OF THE WORK UNLESS NOTED OTHERWISE)

GENERAL

1. THE FOLLOWING NOTES, TYPICAL DETAILS AND SCHEDULES, SHALL APPLY TO ALL DRAWINGS UNLESS OTHERWISE SHOWN OR NOTED.
2. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ARCHITECTURAL, ELECTRICAL, AND MECHANICAL DRAWINGS AND SPECIFICATIONS. ALL DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT FOR PROPER ADJUSTMENT BEFORE PROCEEDING WITH THE WORK.
3. PROVIDE OPENINGS AND SUPPORTS AS REQUIRED PER TYPICAL DETAILS FOR MECHANICAL EQUIPMENT, VENTS, DUCTS, PIPING, ETC. ALL MECHANICAL EQUIPMENT TO BE PROPERLY SWAY BRACED AGAINST LATERAL FORCES.
4. IN THE EVENT THAT CERTAIN FEATURES OF THE CONSTRUCTION ARE NOT FULLY SHOWN ON THE DRAWINGS OR CALLED FOR IN THE GENERAL NOTES OR SPECIFICATIONS, THEN THEIR CONSTRUCTION SHALL BE OF THE SAME CHARACTER AS FOR SIMILAR CONDITIONS THAT ARE SHOWN OR CALLED FOR.

FOUNDTION AND EARTHWORK

FOUNDATION AND EARTHWORK SHALL BE IN ACCORDANCE WITH THE SOIL REPORT PREPARED BY GEOTECHNICAL ENGINEERING, INC., JOB NO. 410[illegible] DATED APRIL 28, 1981.

1. PIER AND GRADE BEAM TYPE FOUNDATIONS SHALL BE USED WITH ALLOWABLE SKIN FRICTION OF 350 PSF FOR NATURAL SOIL.
2. ALL EARTHWORK, FOUNDATION CONSTRUCTION, SLAB AND PAVING SHALL BE INSPECTED BY GEOTECHNICAL ENGINEERING, INC.
3. IF GROUND WATER IS ENCOUNTERED, THE [illegible] SHALL BE [illegible] TO PROVIDE TEMPORARY CASING. THE [illegible] SHALL BE [illegible] BEFORE CONCRETE IS PLACED. [illegible] SHALL BE REMOVED FROM THE SHAFTS [illegible] CONCRETE.

CONCRETE

1. FOR FOUNDATIONS AND SLABS ON GRADE, ULTIMATE COMPRESSIVE CONCRETE STRENGTH AT 28 DAYS SHALL BE 2500 PSF. MAXIMUM AGGREGATE SIZE - 1½"; MINIMUM CEMENT - 5 SACKS PER YARD; MAXIMUM WATER CONTENT - 5.0 GALLONS PER SACK.
2. STRUCTURAL WALLS, SLABS, BEAMS, AND COLUMNS SHALL HAVE A COMPRESSIVE STRENGTH AT 28 DAYS OF 3000 PSI, USING 6½ SACKS OF CEMENT PER CUBIC YARD, 1½" AGGREGATE AND A 4" MAXIMUM SLUMP.
3. TRANSIT MIXED CONCRETE SHALL CONFORM TO A.S.T.M. SPECIFICATION C-94 AND ABOVE PROVISIONS.
4. CONCRETE STRENGTH SHALL BE VERIFIED BY STANDARD CYLINDER TESTS MADE BY AN APPROVED TESTING LABORATORY. APPROVED LABORATORY DESIGN MIX MAY BE SUBSTITUTED FOR THE MIX SPECIFIED.
5. AT ALL SPLICES IN REINFORCING, LAP BARS 40 DIAMETER MINIMUM, BUT NOT LESS THAN 2'-0".
6. ALL REINFORCING STEEL TO HAVE THE FOLLOWING MINIMUM CONCRETE COVERAGE:

COVERAGE	LOCATION
3"	IN FOOTINGS WHERE POURED AGAINST EXCAVATION.
2"	IN FOOTINGS WHERE FORMED BOTH SIDES AND IN WALLS BELOW GRADE.
1"	IN WALLS SLABS AND BEAMS ABOVE GRADE.
1½"	IN COLUMNS.

7. (2) #5 MARGINAL BARS SHALL BE PROVIDED MINIMUM AROUND ALL CONCRETE WALL OPENINGS. EXTEND 2'-0" BEYOND EDGE OF OPENING EACH WAY.
8. SLAB ON GRADE SHALL BE 4" THICK, PLACED OVER EITHER 4" OF SAND, CRUSHED ROCK, OR PEA GRAVEL REINFORCED WITH WIRE MESH 6x6 - NO.10 x NO.10.
9. CONSTRUCTION JOINTS SHALL BE THOROUGHLY AIR AND WATER CLEANED AND HEAVILY ROUGHENED SO AS TO EXPOSE COARSE AGGREGATES. ALL SURFACES TO RECEIVE CONCRETE SHALL BE MAINTAINED CONTINUOUSLY WET AT LEAST THREE HOURS IN ADVANCE OF POURING.
10. ALL ANCHORS, BOLTS, INSERTS, AND ANY OTHER HARDWARE TO BE SET IN CONCRETE SHALL BE FIRMLY SET IN POSITION BEFORE CONCRETE IS PLACED.

REINFORCING STEEL

1. ALL REINFORCING SHALL BE INTERMEDIATE GRADE BARS WITH DEFORMATIONS PER A.S.T.M. SPECIFICATION A-305; AND WELDED WIRE MESH PER A.S.T.M. SPECIFICATION A-185 SHALL BE USED.
2. AT SPLICES IN REINFORCING, LAP BARS 32 DIAMETERS IN CONCRETE, AND 48 DIAMETERS IN CONCRETE BLOCK. REINFORCING SHALL BE BENT 18" MINIMUM AROUND CORNERS IN WALLS AND PILASTERS, UNLESS NOTED OTHERWISE.
3. TO HOLD BARS IN THEIR TRUE POSITION AND PREVENT DISPLACEMENT, STANDARD TIE AND ANCHORAGE DEVICES MUST BE PROVIDED.
4. SUBCONTRACTORS ARE TO SUBMIT FOUR COPIES OF SHOP DRAWINGS FOR APPROVAL PRIOR TO FABRICATION OF ANY REINFORCING STEEL.

CONCRETE MASONRY BLOCK WALLS & PILASTERS

1. CONCRETE BLOCKS SHALL BE GRADE "A" AS SPECIFIED BY THE A.S.T.M. SPECIFICATION C-90.
2. MORTAR USED IN BLOCK WALLS SHALL BE COMPOSED OF NOT LESS THAN 1/6 PART NOR MORE THAN 1/2 PART LIME PUTTY, ONE PART PORTLAND CEMENT, AND NOT MORE THAN 4 PARTS SAND, BASED ON DRY LOOSE VOLUMES. MORTAR SHALL DEVELOP A STRENGTH OF 1500 PSI AT THE END OF 28 DAYS.
3. GROUT SHALL CONSIST OF ONE PART PORTLAND CEMENT TO NOT MORE THAN 3 PARTS SAND. PEA GRAVEL MAY BE USED, BUT THE COMBINED MIX SHALL NOT EXCEED 1:3:2. GROUT SHALL DEVELOP A MINIMUM STRENGTH OF 2000 PSI AT 28 DAYS.
4. ALL VOIDS IN PIERS SHALL BE FILLED SOLID WITH GROUT AND REINFORCED. PIERS ARE WALLS LESS THAN 6'-0" LONG (SIX FEET).
5. ALL VERTICAL CELLS, ESPECIALLY THOSE CONTAINING ANCHORS, BOLTS, DOWELS AND STRAPS, SHALL BE FILLED SOLID WITH GROUT AND RODDED TO INSURE FULL CELL FILLING.
6. REINFORCING WALLS WITH #4 @ 24" VERTICAL. PROVIDE (3) REINFORCED VERTICAL CELLS AT CORNERS WITH #4 VERTICAL. PROVIDE (1) #4 VERTICAL EACH SIDE OF OPENING, FULL HEIGHT. BOND BEAMS WITH (2) #4 HORIZONTAL BARS WILL BE PROVIDED AT 4' O.C. AND AT TOP OF WALLS. WINDOW AND DOOR OPENING 4'-0" WIDE OR MORE SHALL BE REINFORCED WITH (2) BOND BEAMS (4-#4 TOTAL) IMMEDIATELY OVER OPENINGS, BARS TO EXTEND 2'-0" EACH SIDE OF OPENING.
7. ALL HORIZONTAL STEEL SHALL BE SPLICED WITH 40 DIAMETER MINIMUM LAP OR NOT LESS THAN 2'-0" AT CORNERS AND INTERSECTIONS. ALL VERTICAL STEEL SHALL BE DOWELED INTO FOUNDATIONS WITH SAME SIZE SPACING STEEL. LAP DOWEL IN WALLS 40 DIAMETERS, VERTICALLY, MINIMUM.
8. CLEANOUTS ARE TO BE PROVIDED AT THE BOTTOM COURSE OF EACH CORE TO BE REINFORCED WHEN CORE HEIGHT IS IN EXCESS OF 4'-0". THE INSPECTOR OR ENGINEER SHALL INSPECT CELLS BEFORE CLEANOUTS ARE CLOSED. GROUT IS TO BE STOPPED 1½" BELOW TOP OF MASONRY UNITS WHEN GROUT POUR IS STOPPED FOR ONE HOUR OR LONGER.

MISCELLANEOUS & STRUCTURAL STEEL

1. ALL STEEL IS TO BE A.S.T.M. A-36 STEEL, OR BETTER, USING A.I.S.C. CODE OF PRACTICE AND A.W.S. SPECIFICATION FOR WELDING.
2. ALL STEEL SHALL BE PAINTED ONE SHOP COAT AND FIELD TOUCHED UP WITH RED LEAD AS NECESSARY.
3. SUBCONTRACTORS ARE TO SUBMIT FOUR COPIES OF SHOP DRAWINGS INCLUDING PROPOSED DESIGN AND DETAIL ALTERNATIVES.

CARPENTRY

1. BEAMS, GIRDERS, JOISTS, RAFTERS, POSTS AND MULLIONS SHALL BE DOUGLAS FIR (COAST REGION) GRADED AS FOLLOWS, UNLESS NOTED DIFFERENTLY IN THE DRAWINGS:

TIMBER CONSTRUCTION DESIGN CRITERIA WITH NEW 1970 LUMBER GRADING RULES

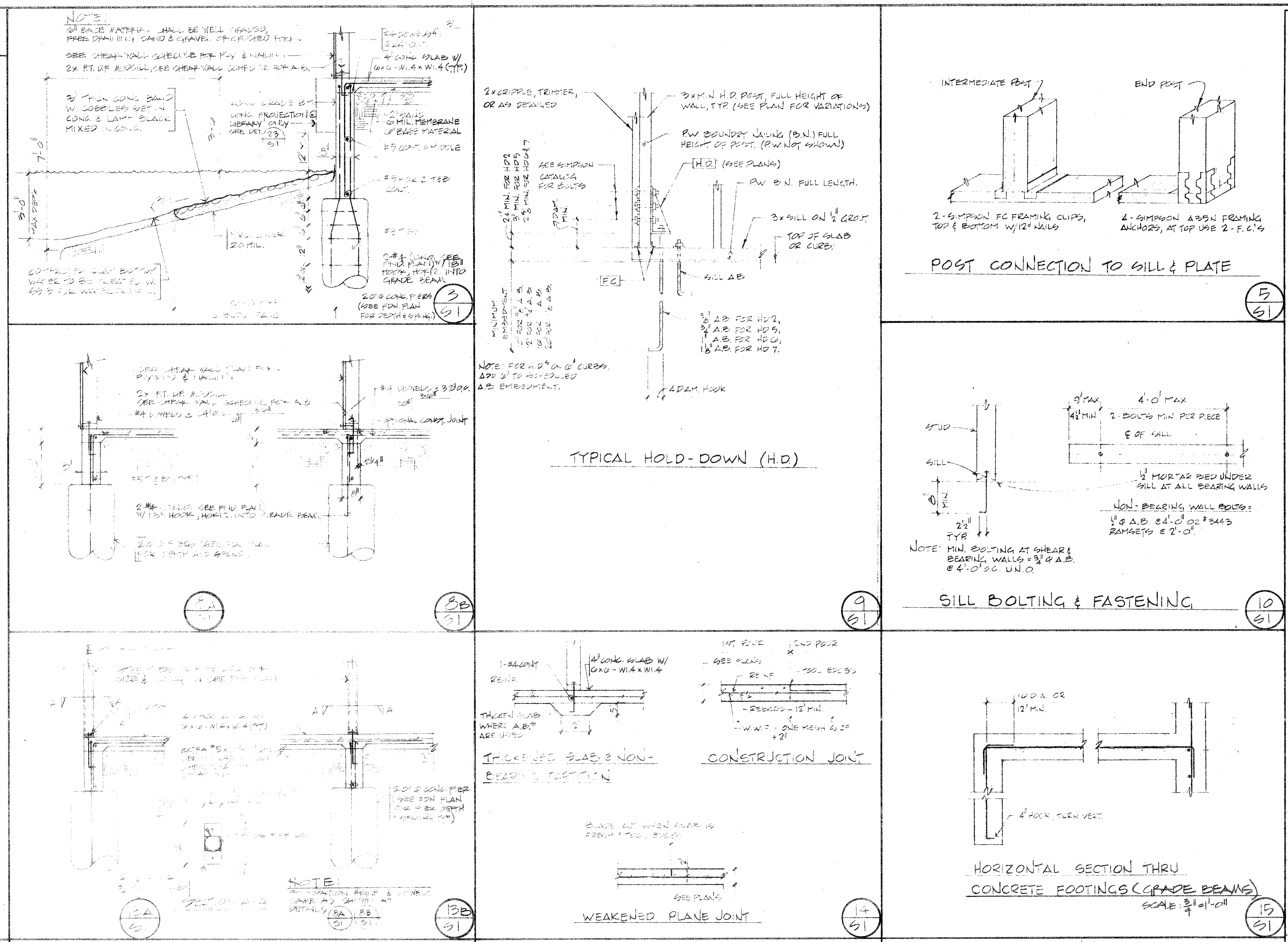
USE	GRADE	F	E x 10
STRUC LIGHT FRAMING (4 x 4)	DENSE NO.2	1450 1250	1.7 1.7
STRUC. JOISTS & PLANKS & RAFTERS	DENSE NO. 2	1450 1250	1.7 1.7
LIGHT FRAMING & STUDS (4 x 4)	CONSTR. GRADE STAND. GRADE	1050 600	1.5 1.5
BEAMS & STRINGERS	DENSE SEL. STRU. DENSE NO. 1	1900 1550	1.7 1.7
POST & TIMBERS	DENSE NO. 1	1400 1200	1.7

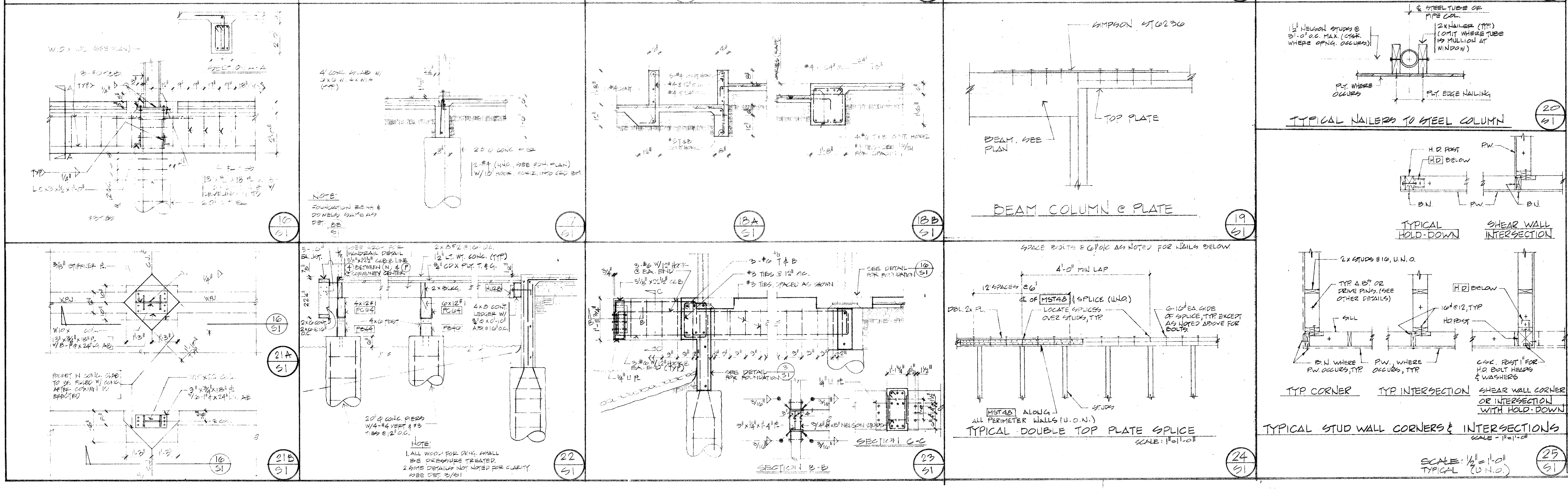
2. SILL PLATES ON CONCRETE SHALL BE 2" NOMINAL REDWOOD OR PRESSURE TREATED D.F. SILL PLATES SHALL BE BOLTED TO THE CONCRETE WITH 5/8" x 10" BOLTS @ 48" O.C. TYPICAL. BOLTS SHALL BE PLACED NOT MORE THAN 9" FROM ENDS OF PIECES.
3. PROVIDE (2) FRAMING CLIPS TOP AND BOTTOM OF ALL POSTS, MULLIONS AND DOUBLED STUDS AT EDGES OF OPENINGS. HEAVIER STEEL PLATE POST TO BEAM, OR TO FOUNDATIONS ARE TO BE INSTALLED AS SPECIFIED IN THE DRAWING DETAILS.
4. WHERE STUD WALLS ABUT MASONRY WALLS, END STUD SHALL BE 3 x MEMBER AND BOLTED TO MASONRY WITH 1/2" x 10" BOLTS @ 2'-8" O.C. AND 6" FROM TOP AND BOTTOM.
5. PROVIDE SOLID BLOCKING BETWEEN JOISTS @ 7'-0" O.C. MAXIMUM.
6. WHERE PLYWOOD IS USED ON ROOF OR FLOOR, SHEETS SHALL BE LAID PERPENDICULAR TO DIRECTION OF JOISTS. PLYWOOD SHEETS SHALL BE STAGGERED. MINIMUM AREA OF SHEET: 16 SQ. FT. ALL PLYWOOD IS TO BE D.F. STRUCTURAL II GRADE (OR EXTERIOR USE C-C OR C-D GRADE), GRADE MARKED BY D.F.P.A.
7. WHERE INDICATED, EDGES OF PLYWOOD SHEETS NOT NAILED TO STUDS, JOISTS OR SOLID BLOCKING SHALL BE BLOCKED AND NAILED TO 2 x 4 FLAT WITH PERIMETER NAILING, UNLESS TONGUE AND GROOVE PLYWOOD IS USED.
8. BOLTS BEARING ON WOOD SHALL HAVE STANDARD CAST IRON OR MALLEABLE IRON WASHERS. BOLT HOLES SHALL BE DRILLED 1/16" LARGER THAN BOLT DIAMETER. THREADS SHALL NOT BEAR ON WOOD.
9. LAG SCREWS SCREW INTO PREDRILLED HOLES SAME DIAMETER AS ROOT OF THREAD. ENLARGED TO SHANK DIAMETER FOR LENGTH OF SHANK.
10. METAL FRAMING DEVICES SHALL BE AS MANUFACTURED BY SIMPSON OR TIMBER ENGINEERING CO., OR APPROVED EQUAL OR AS INDICATED AS OTHERWISE.
11. NAILING FOR FRAMING SHALL BE WITH COMMON NAILS, NUMBER AND SIZE AS FOLLOWS, EXCEPT AS NOTED ON PLANS AND DETAILS.
12. NAILS SHALL NOT BE DRIVEN CLOSER TOGETHER THAN 1/2 OF THEIR LENGTH, NOR CLOSER TO THE EDGE OF MEMBER THAN 1/4 THEIR LENGTH, EXCEPT FOR SHEATHING. PENETRATION 1/2 LENGTH OF NAIL MINIMUM.
13. NAILING NOT NOTED BELOW OR ON PLANS AND DETAILS SHALL BE A MINIMUM OF (2) NAILS PER CONTACT, (8D) FOR 1" MATERIAL AND (16D) FOR 2" MATERIAL.

JOIST AT ALL BEARINGS	TOE NAILS EACH SIDE	(2)-10D
STUDS TO BEARING	TOE NAILS EACH SIDE	(2)-10D
BLOCKING BETWEEN JOISTS	TO JOIST BEARING, TOE NAIL EA SIDE	(2)-10D
BLOCKING BETWEEN STUDS	EACH END, TOE NAIL OR END NAIL	(2)-10D (2)-16D
SHEATHING AT ALL BEARINGS	3/8" PLYWOOD: AROUND EDGES OF SHEETS	8D @ 6" OR 8D @ 4"
	AT INTERMEDIATE BEARINGS	8D @ 12"
	1/2" & 5/8" PLYWOOD: AROUND EDGES OF SHEETS	10D @ 6" OR 10D @ 4"
	AT INTERMEDIATE BEARINGS	10D @ 12"
RIBBONS TO STUDS	1" RIBBONS	(2)-8D
DOUBLE TOP PLATES	LOWER PLATE TO TOP OF STUD	(2)-20D
	UPPER PLATE TO LOWER PLATE, STG'D	16D @ 12"
	UPPER PLATE TO LOWER PLATE, AT INTERSECTION	(3)-16D
MULTIPLE STUDS OR JOISTS	STAGGER FOR WIDTH MORE THAN 4"	16D @ 12"
BUILT-UP BEAMS	10" OR MORE, STAGGERED	1/2" BOLTS @ 24" O.C.
DOUBLE JOISTS UNDER - PARTITIONS	WHERE NOT BLOCKED APART, STG'D	16D @ 12"
	WHERE BLOCKED APART, AT EA BLOCK, EACH SIDE	(2)-16D

GLUED - LAMINATED BEAMS

1. ALL GLUED - LAMINATED BEAMS SHALL BE DOUGLAS FIR (COAST REGION), COMBINATION A 2400F, ARCHITECTURAL APPEARANCE GRADE.
2. THE MANUFACTURING OF THE GLUED LAMINATED BEAMS SHALL BE IN ACCORDANCE WITH THE LATEST STANDARD SPECIFICATIONS FOR STRUCTURAL GLUED LAMINATED TIMBER BY THE AMERICAN INSTITUTE OF TIMBER CONSTRUCTION. (A.I.T.C.)
3. THE CONTRACTOR SHALL SUPPLY THE OWNER WITH A.I.T.C. INSPECTION CERTIFICATES.
4. THE BEAMS SHALL BE END SEALED AND LOAD WRAPPED FOR PROTECTION DURING SHIPMENT.
5. THE BEAMS SHALL BE CAMBERED WITH STANDARD RADIUS AS CALLED FOR ON THE DRAWINGS.





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GENERAL NOTES & STRUCTURAL DETAILS

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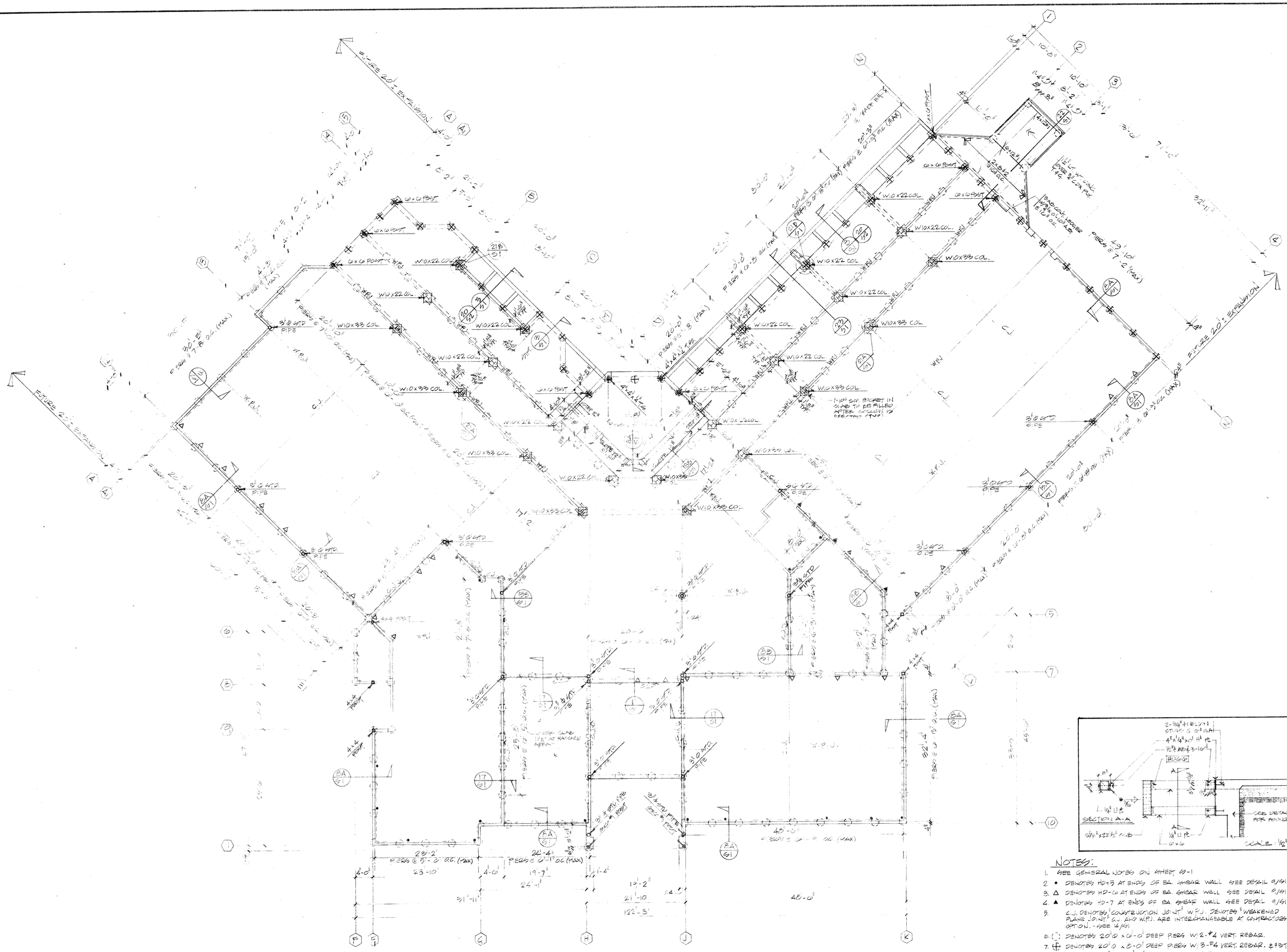
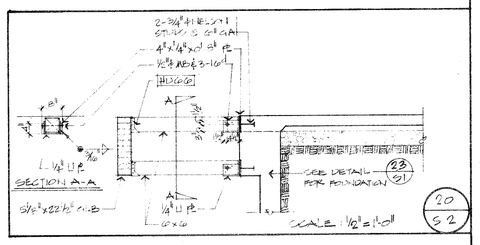
JOB	SHEET	DATE	REV
	S1	8-4-81	





NOTES:

1. SEE GENERAL NOTES ON SHEET 0-1
2. ● DENOTES HD-5 AT ENDS OF EA. SHEAR WALL SEE DETAIL 9/S1
3. △ DENOTES HD-6 AT ENDS OF EA. SHEAR WALL SEE DETAIL 9/S1
4. ▲ DENOTES HD-7 AT ENDS OF EA. SHEAR WALL SEE DETAIL 9/S1
5. C.J. DENOTES "CONSTRUCTION JOINT" W.F.J. DENOTES "WEAKENED PLANE JOINT" C.J. AND W.F.J. ARE INTERCHANGEABLE AT CONTRACTORS OPTION. - SEE 6/S1
6. ⊙ DENOTES 20"Ø x 0'-0" DEEP PIERS W/ 2-#4 VERT. REBAR.
7. ⊕ DENOTES 20"Ø x 0'-0" DEEP PIERS W/ 3-#4 VERT. REBAR. ± #3 TIES @ 12" O.C.
8. ⊙ DENOTES 24"Ø x 0'-0" DEEP PIERS W/ 4-#5 VERT. REBAR. ± #3 TIES @ 12" O.C.
9. PIER DEPTH INDICATED SHALL BE BELOW PRESENT GROUND SURFACE.

FOUNDATION PLAN
LIBRARY

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

N

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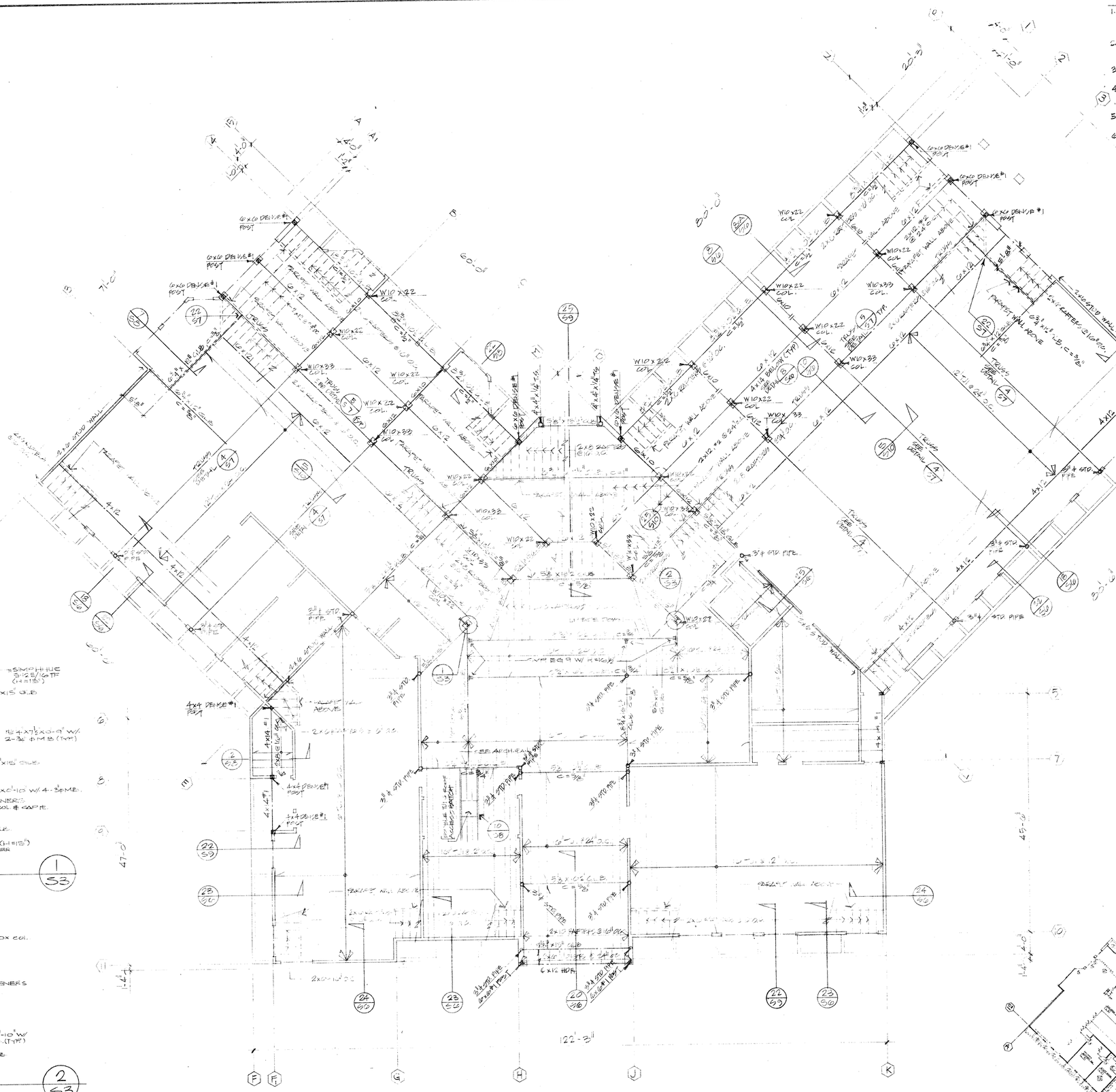
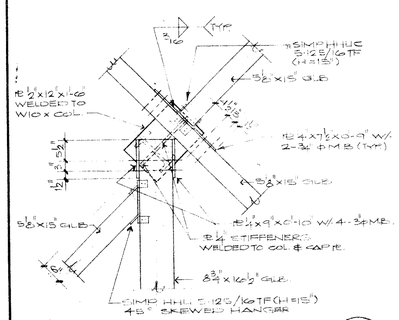
	S2	8-4-81	

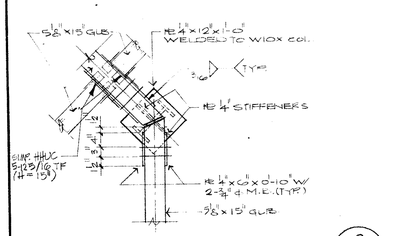
NOTES:

1. ALL 6X AND LARGER, AND 5 1/2" W AND LARGER BEAMS SHALL BE SUPPORTED BY MIN. 4x6 #1 POST IN 2x4 STUD WALLS, AND 6x6 #1 POST IN 2x6 STUD WALLS AND LARGER, UNLESS NOTED OTHERWISE.
2. ALL HEADERS SHALL BE MIN. 4x12 #1 FOR 2x4 STUD WALLS, AND 6x10 #1 FOR 2x6 STUD WALLS, UNLESS NOTED OTHERWISE.
3. ALL 4x12 AND LARGER HEADERS & BEAMS SHALL BE SUPPORTED ON MIN. 4x4 #1 POST, UNLESS NOTED OTHERWISE.
4. ALL BEAM TO 6"x6" CONNECTIONS USE SIMPSON HUTP HANGERS, AND HHUTP HANGERS FOR GLU. LAM. BEAMS, UNLESS NOTED OTHERWISE.
5. ALL PIPE & STEEL COLUMNS SHALL BE WITH SIMPSON CCQ CAP WELDED AT TOP FOR BEAM CONNECTIONS.
6. ALL WOOD POSTS SHALL BE WITH SIMPSON PC POST CAP FOR GLU. LAM. BEAM TO POST CONNECTION, & CB POST BASE (UNLESS NOTED OTHERWISE). ALL REMAINING POSTS SHALL BE WITH SIMPSON PC POST CAP & PB POST BASE UNLESS NOTED OTHERWISE.





DETAIL 1/S3
SCALE: 3/4" = 1'-0"



DETAIL 2/S3
SCALE: 3/4" = 1'-0"

TJI JOISTS: (OR EQUAL)

1. TRUS-JOISTS MANUFACTURER SHALL PROVIDE CALCULATIONS AND SHOP DRAWINGS FOR APPROVAL PRIOR TO FABRICATION OF TJI 55 SERIES SHALL BE USED.
2. ROOF TJI DESIGN LOADS:
   TL = 14 PSF LL = 20 PSF & CONCENTRATED LOAD FROM TILE MANSARD
   FRAMING DL = 24 PSF LL = 16 PSF.

WOOD TRUSSES:

TRUSSES SHALL BE GLULAMINATED TIMBER - DOUGLAS FIR AND WESTERN LARCH COMBINATION 24F-V4. THE MANUFACTURER SHALL SUBMIT COMPLETE SHOP DRAWINGS FOR APPROVAL BY ARCHITECT OR ENGINEER PRIOR TO FABRICATION.
TRUSS MANUFACTURER SHALL FURNISH AND INSTALL LATERAL BRACING ADEQUATE TO PROPERLY ALIGN TRUSSES. TRUSSES SHALL BE ADEQUATELY CAMBERED TO COMPENSATE FOR DEAD LOAD DEFLECTION.

ROOF FRAMING PLAN
LIBRARY

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

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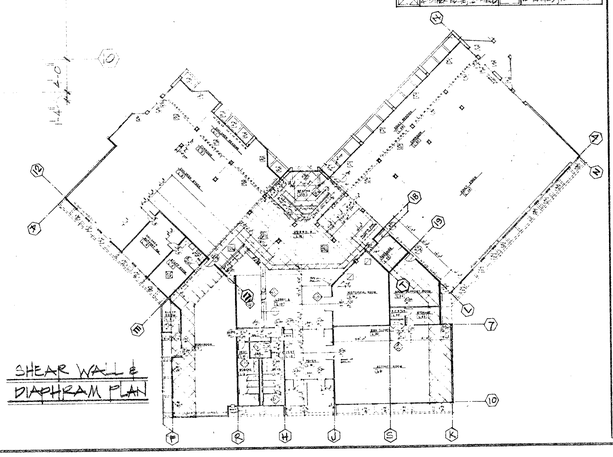
SHEAR WALL SCHEDULE

SHEATHING	ANCHOR BOLTS	WALLS
3/8" CDX W/ 8d @ 6" (8d @ 12" FIELD)	5/8" ø x 10" @ 24" O.C.	10
3/8" CDX W/ 8d @ 6" (8d @ 12" FIELD)	5/8" ø x 10" @ 18" O.C.	8 L
3/8" CDX W/ 8d @ 6" (8d @ 12" FIELD)	5/8" ø x 10" @ 24" O.C.	N 7 12
	5/8" ø x 10" @ 36" O.C.	A 4
3/8" CDX W/ 8d @ 6" (8d @ 12" FIELD)	5/8" ø x 10" @ 24" O.C.	K 13
	5/8" ø x 10" @ 48" O.C.	1 7 18
1/2" CDX W/ 8d @ 6" (8d @ 12" FIELD)	5/8" ø x 10" @ 48" O.C.	P H J E G

ROOF DIAPHRAM

3/8" CDX W/ 8d @ 6" (8d @ 12" FIELD)	5/8" ø x 10" @ 24" O.C.		1/2" CDX W/ 10d @ 6" (10d @ 12" FIELD)



SHEAR WALL & DIAPHRAM PLAN

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ROOF FRAMING PLAN
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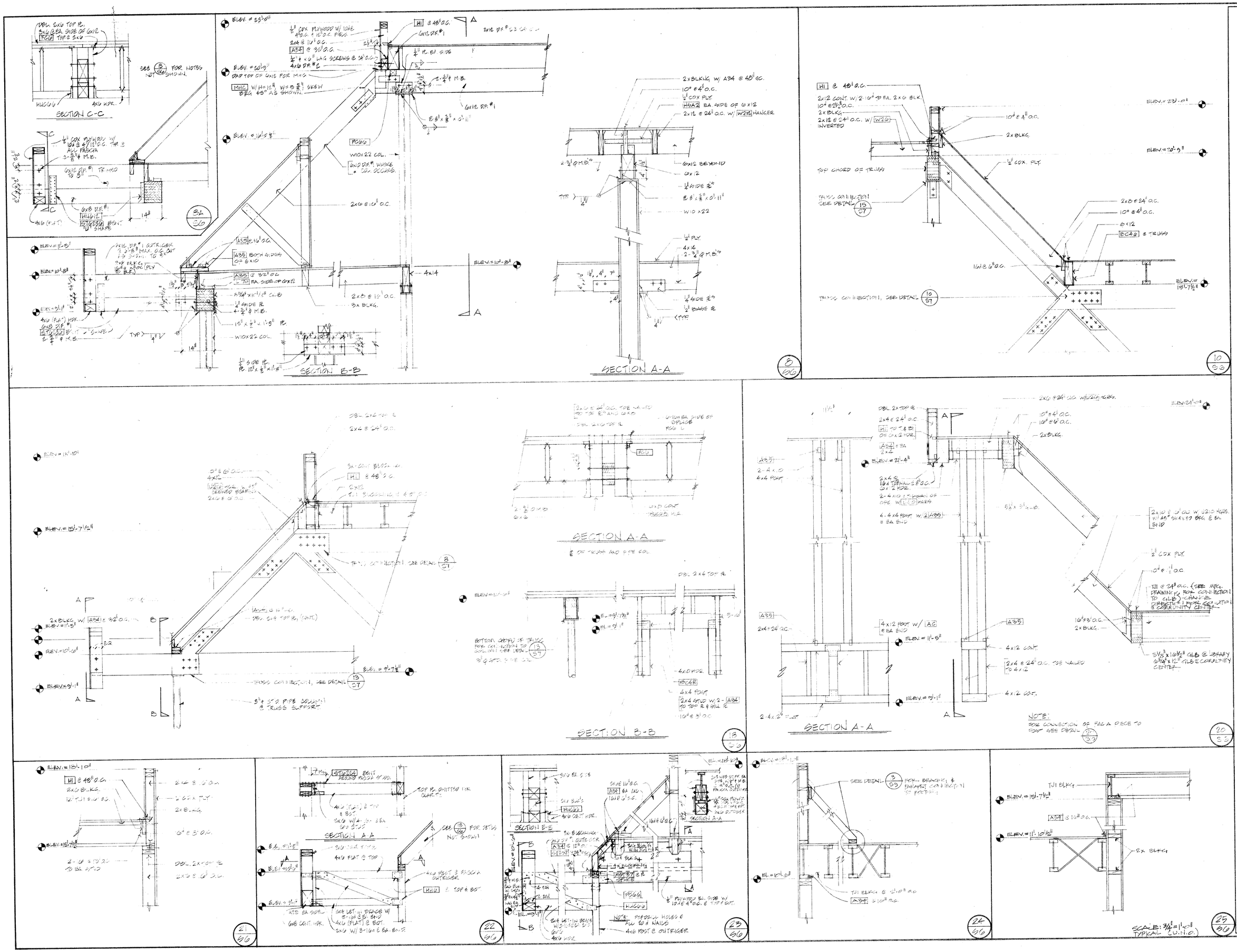

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STRUCTURAL PARTIAL SECTIONS
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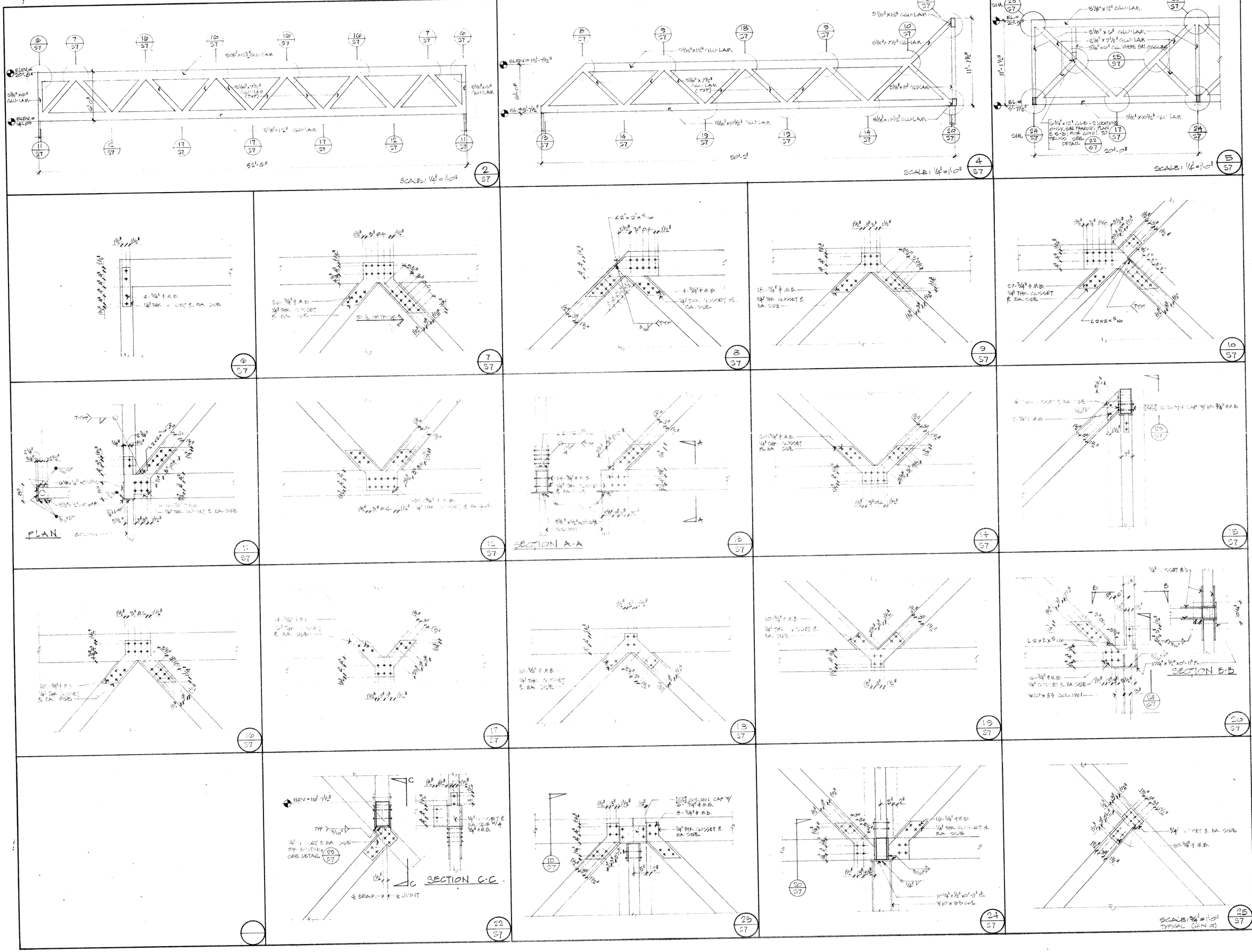

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STRUCTURAL DETAILS
TRUSSES

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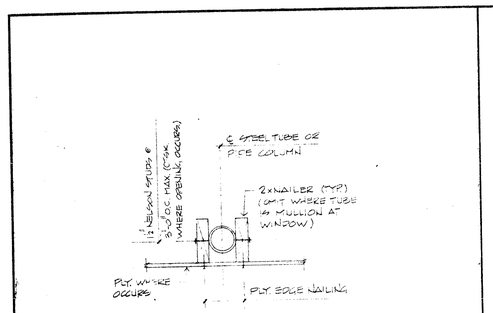
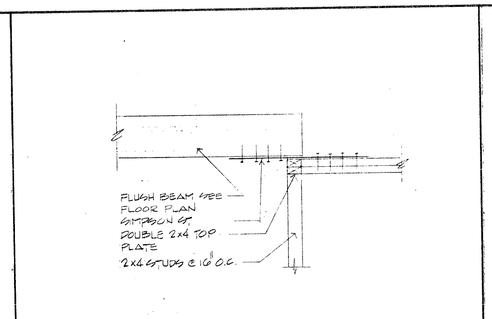


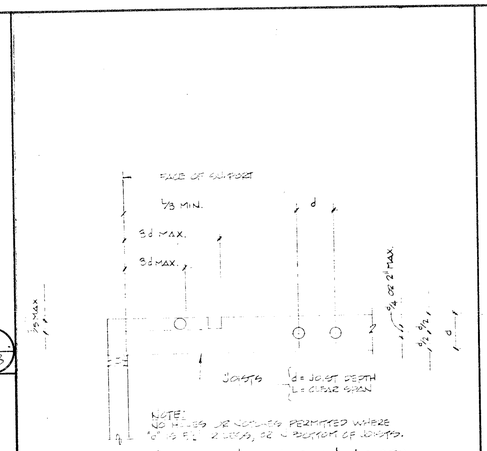
TYPICAL NAILERS TO STEEL COLUMN

1/S8

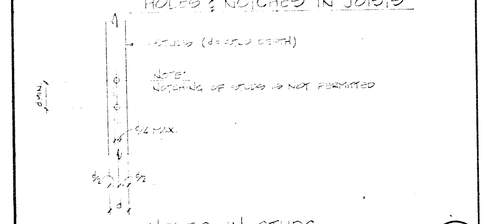


SIMPSON STRAP DETAIL

2/S8

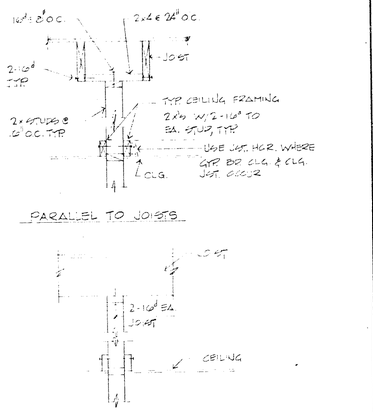


HOLES & NOTCHES IN JOISTS



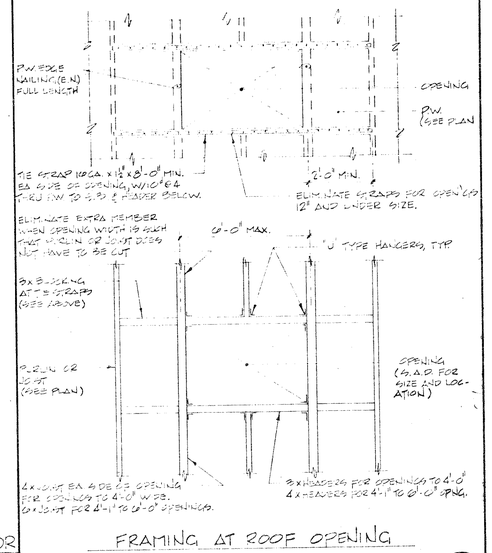
HOLES IN STUDS

8/S8



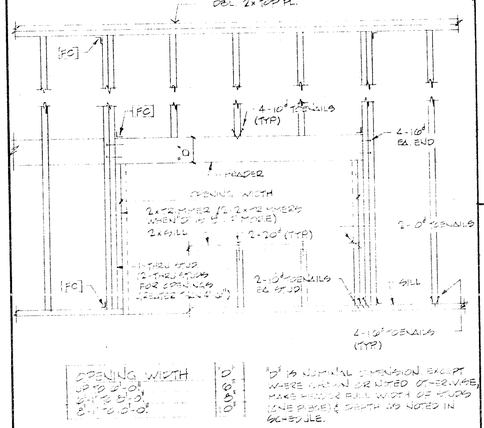
NON-BEARING PARTITIONS AT ROOF OR FLOOR

9/S8



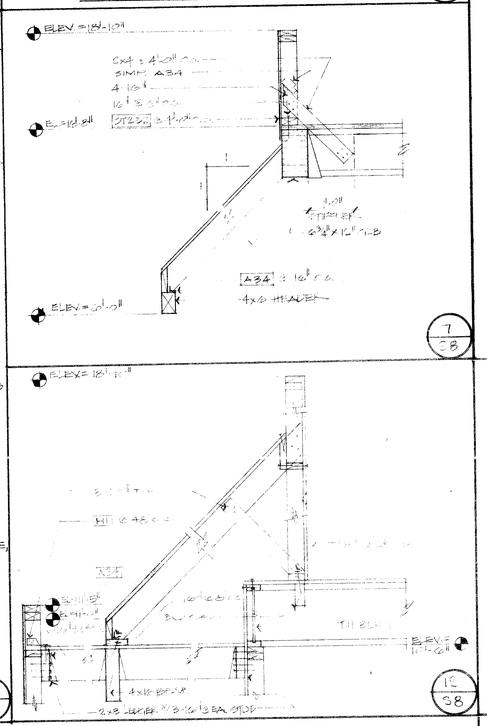
FRAMING AT ROOF OPENING

10/S8

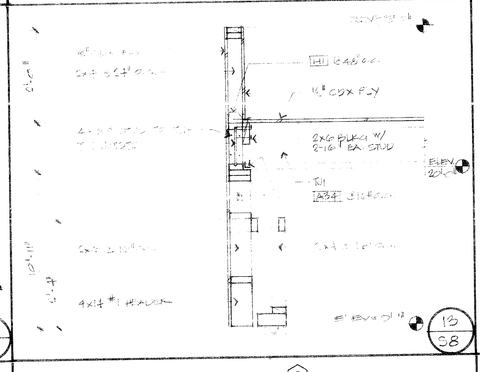


FRAMING AT STUD WALL OPENINGS

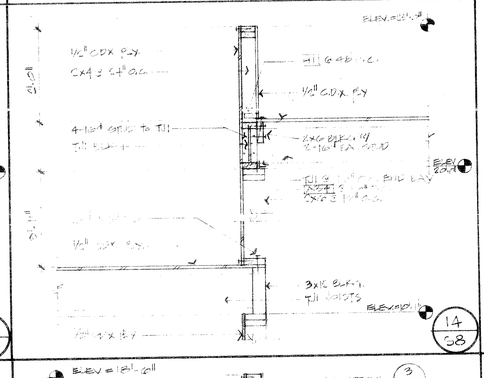
11/S8



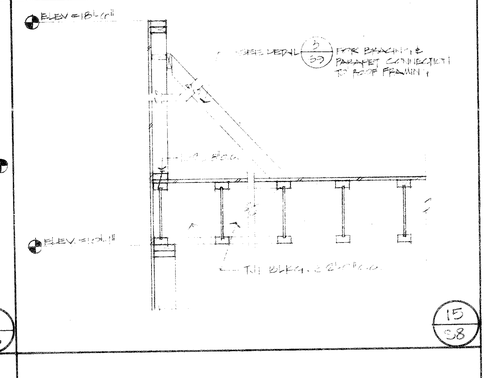
12/S8



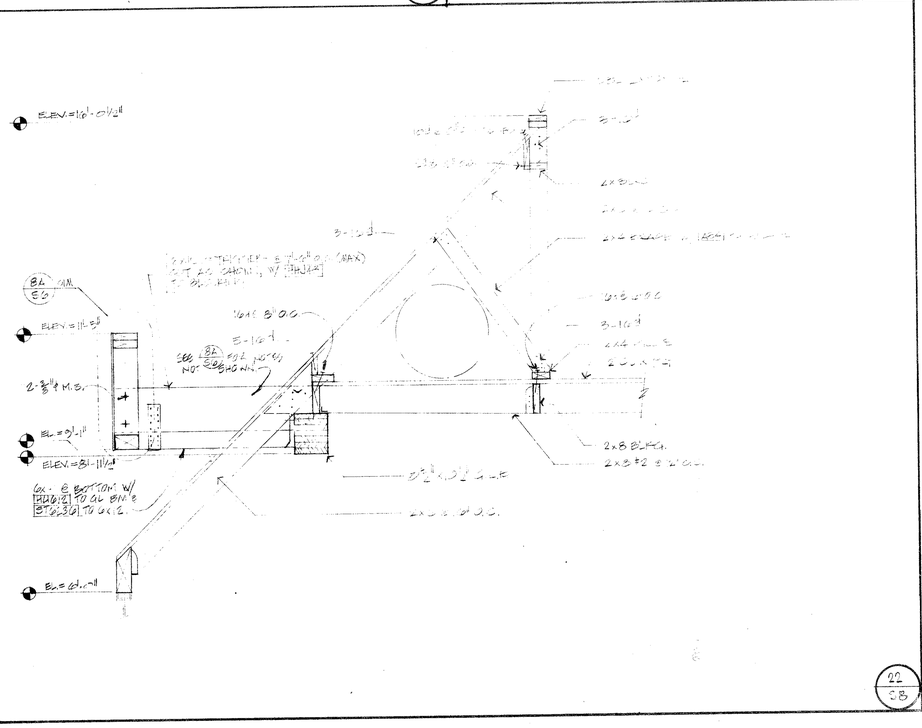
13/S8



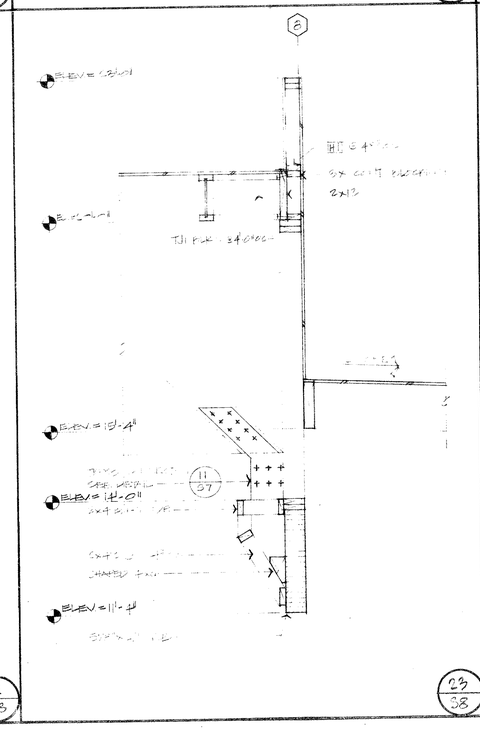
14/S8



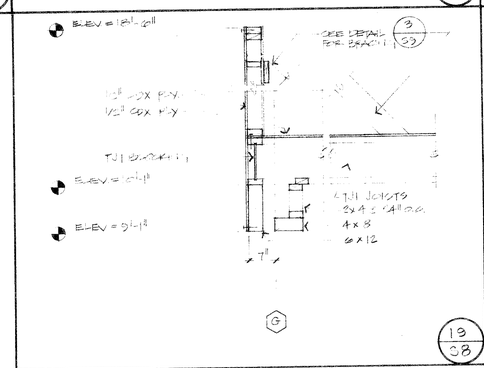
15/S8



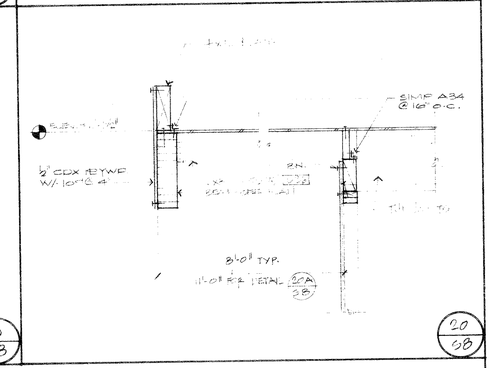
22/S8



23/S8



19/S8



20/S8

SCALE: 3/4" = 1'-0"
TYPICAL (U.N.O.)

CIVIL and CONSTRUCTION CONSULTANTS, INC.
7246 Sharon Drive
San Jose, California 95129 - Telephone (408) 257-7083

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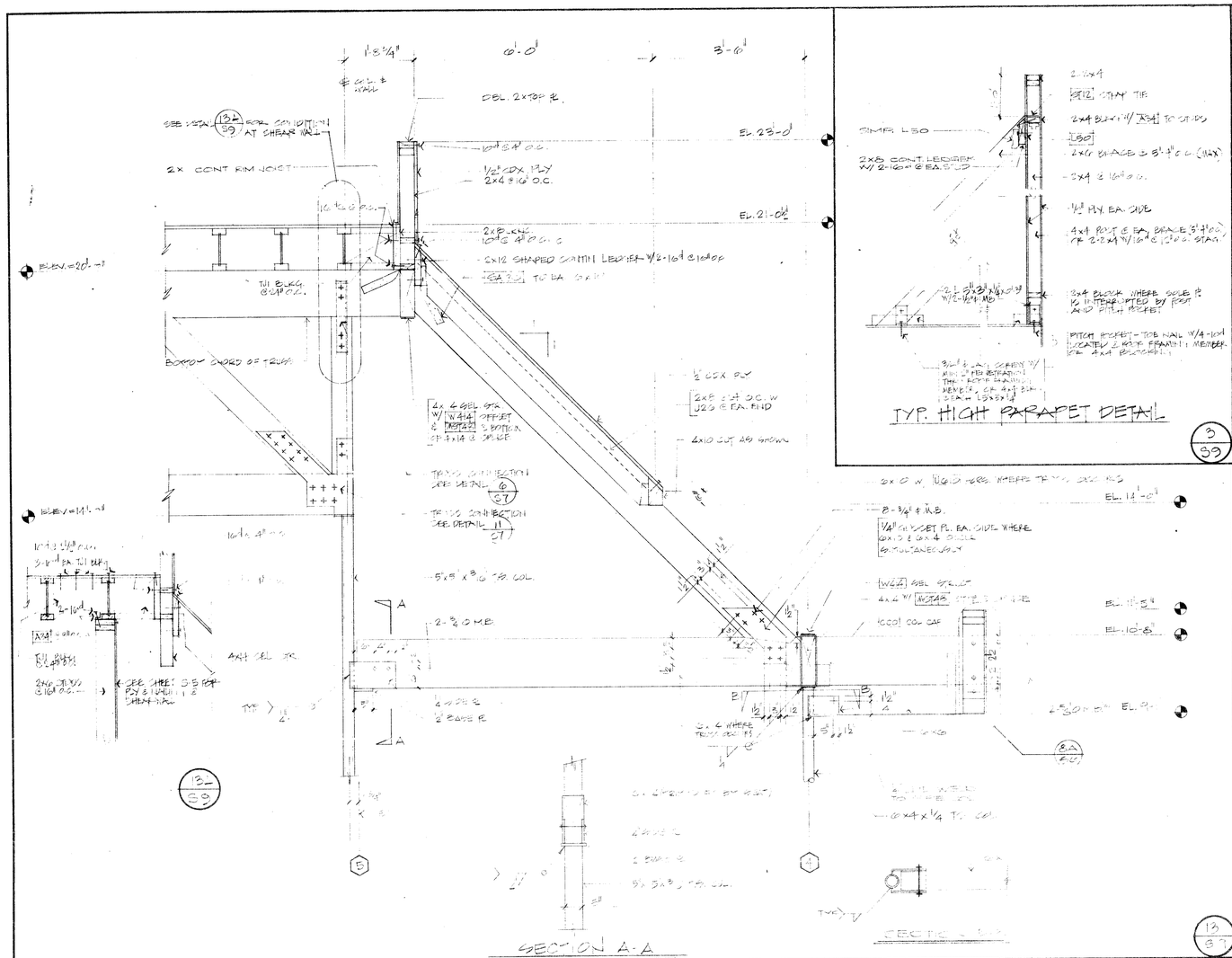
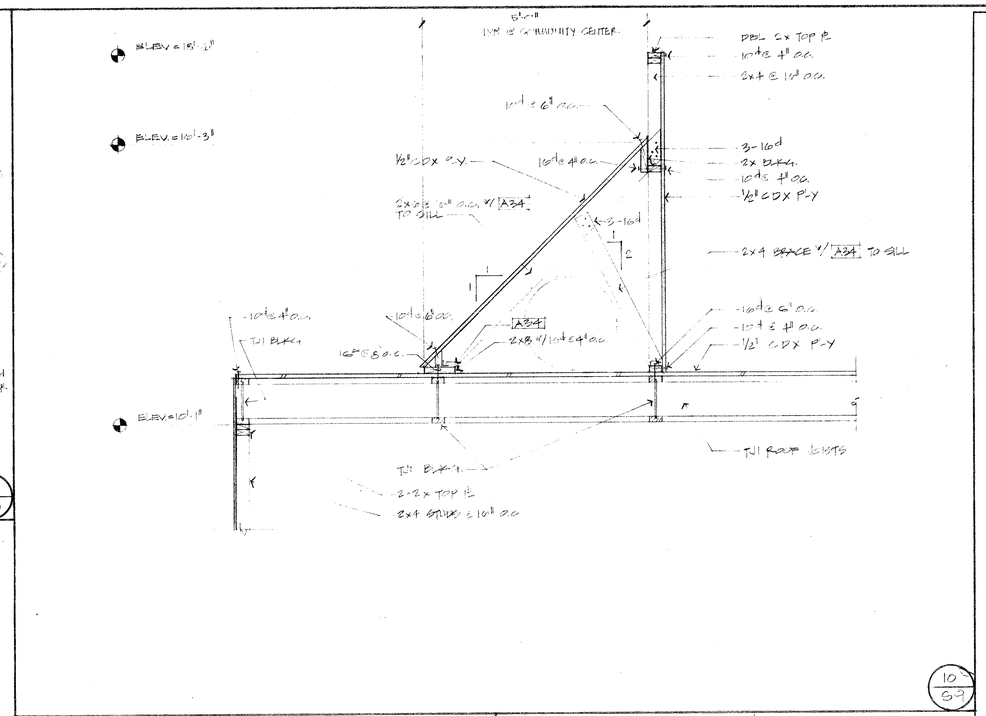
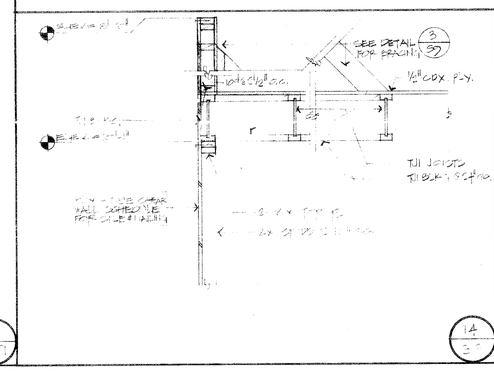
STRUCTURAL DETAILS
LIBRARY & COMMUNITY CENTER

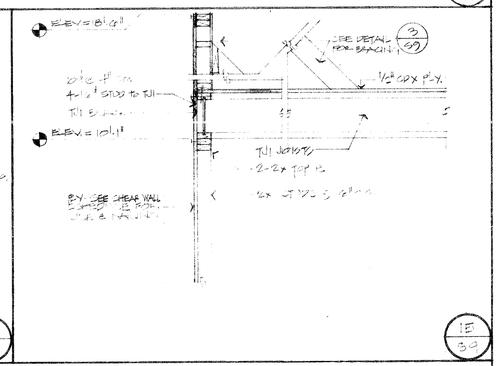
LIBRARY and COMMUNITY BUILDINGS
MILPITAS CIVIC CENTER
455 E. CALAVERAS BLVD. MILPITAS, CALIF.

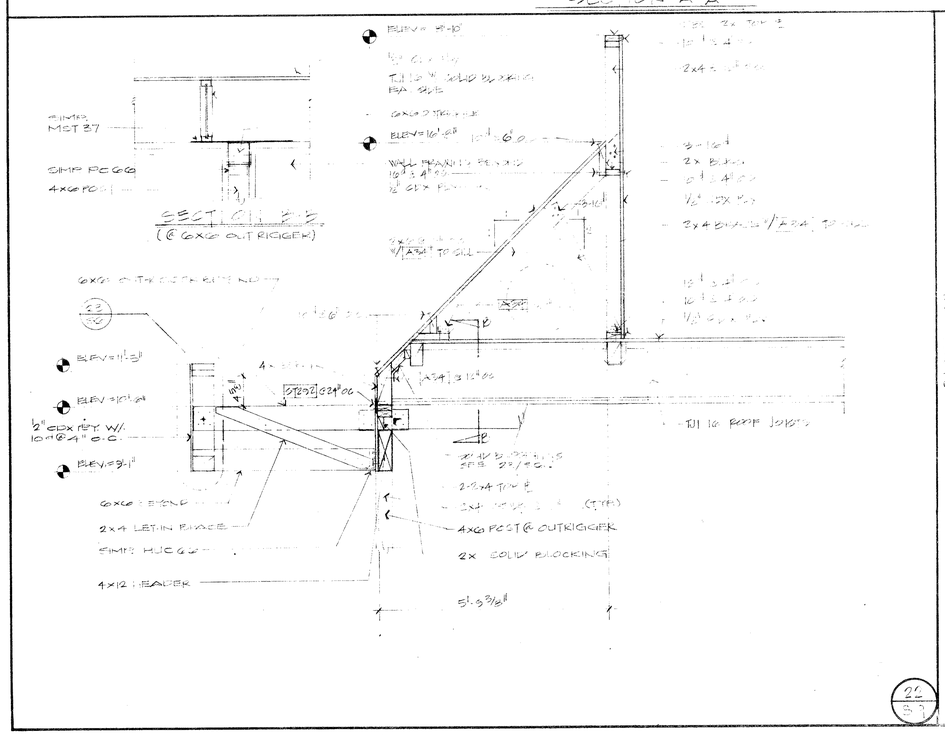
GOODWIN B. STEINBERG ASSOCIATES
ARCHITECTS
1737 N. FIRST ST. SUITE 475, SAN JOSE, CALIFORNIA 295-5446

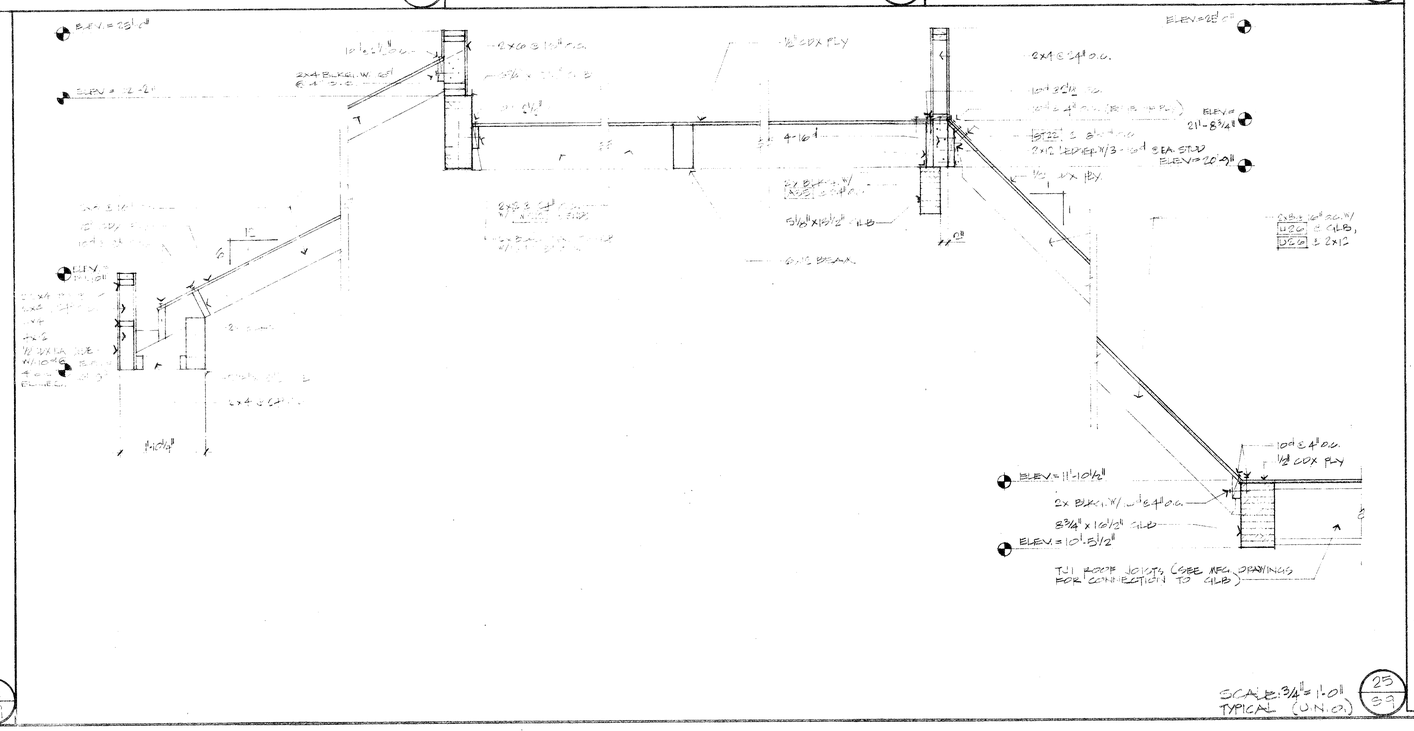












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