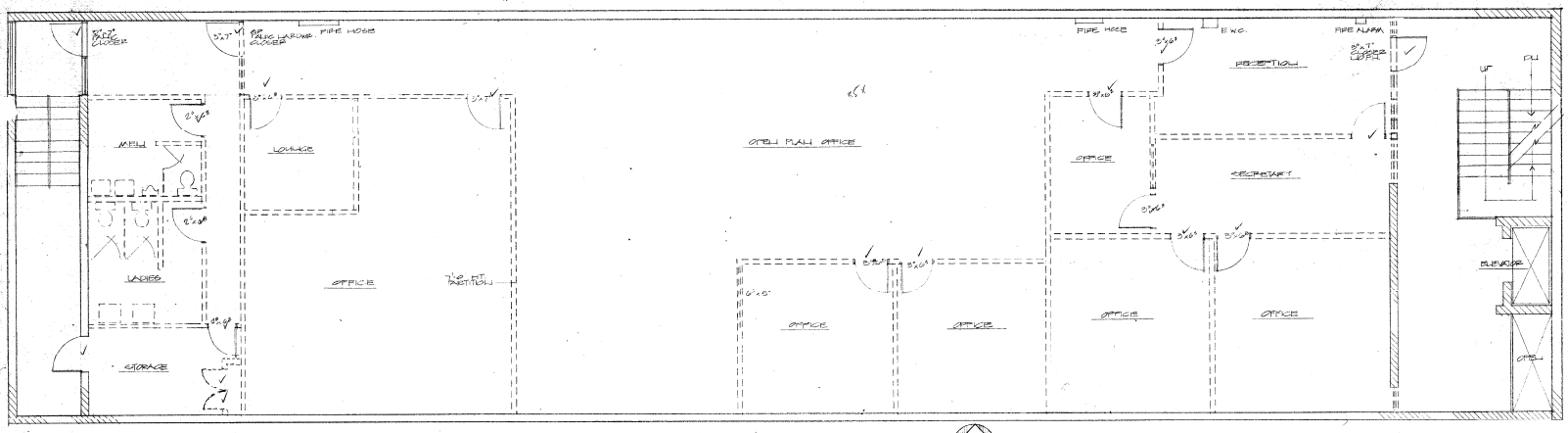
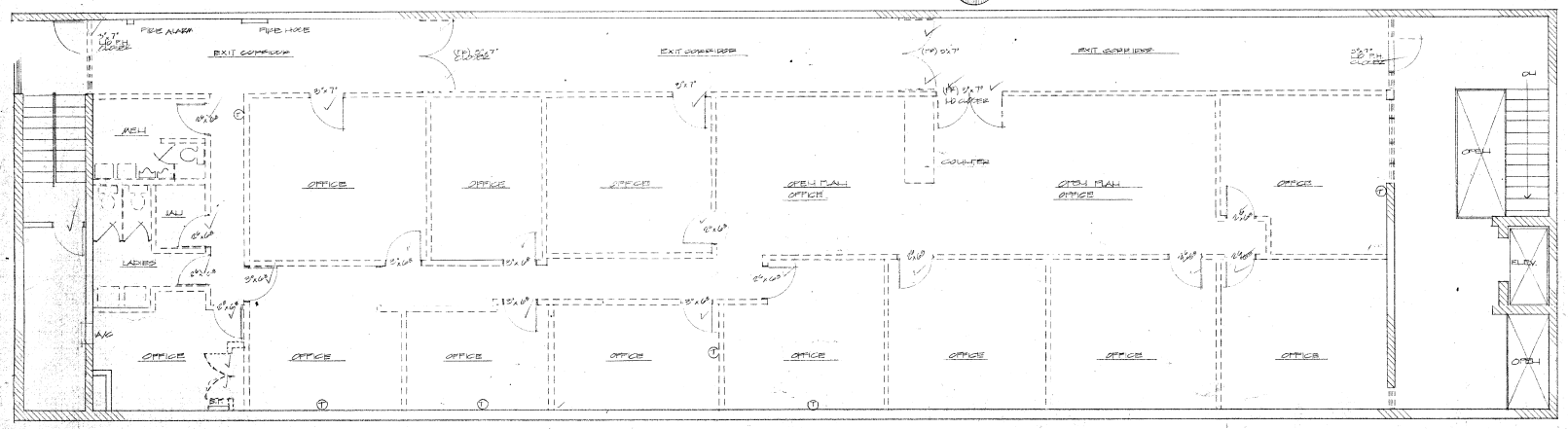


SECOND FLOOR EXISTING & DEMOLITION PLAN
SCALE 1/4" = 1'-0"



THIRD FLOOR EXISTING & DEMOLITION PLAN
SCALE 1/4" = 1'-0"

EXISTING CONCRETE BLOCK WALL TO REMAIN
EXISTING 1 HR WALL TO REMAIN
EXISTING PARTITION TO BE DEMOLISHED
NOTE: ALL DOORS & HARDWARE TO BE SALVAGED. CONTACT TO OWNER FOR PICK UP

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SHEET NO. A1-2 of 14

SHEET TITLE: SECOND & THIRD FLOOR EXISTING & DEMOLITION PLAN
PROJECT: CENTENNIAL BUILDING REMODELING
DATE: [illegible]
PROJECT NO. [illegible]
DRAWN BY: LC
APPROVED BY:
1700

LEGEND

EXISTING CONCRETE FLOOR WALL TO BE PLANKED

1 HR. RATED WALL

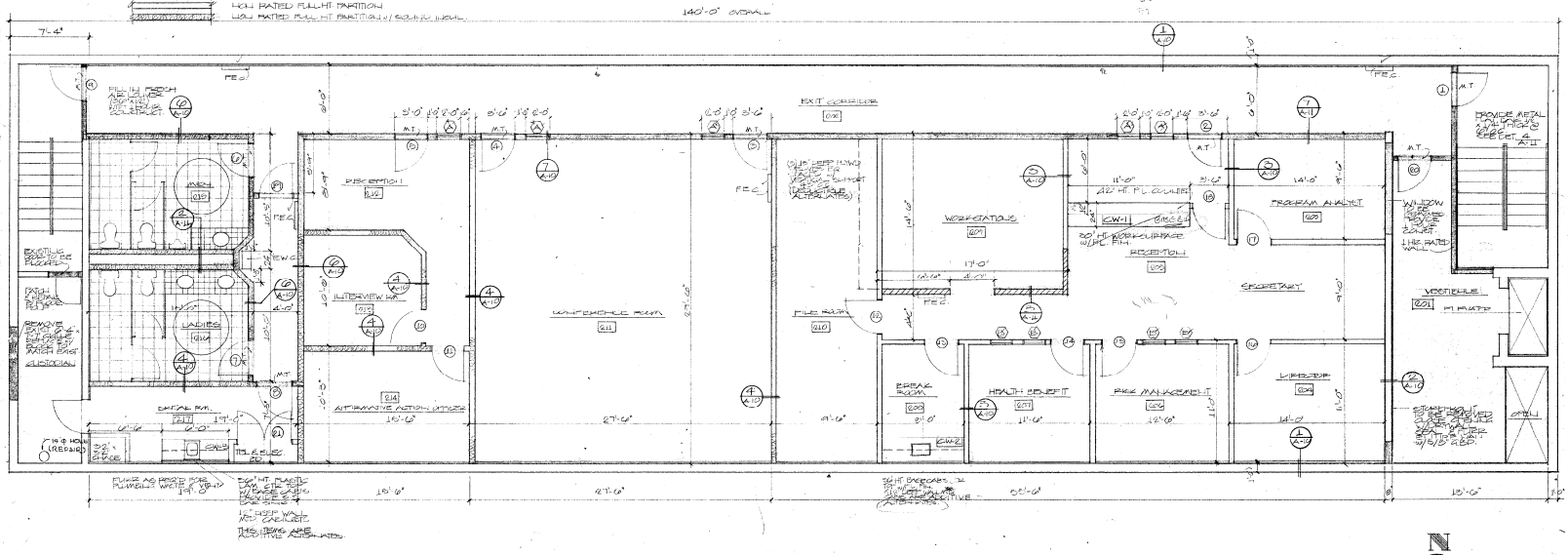
6'-0" HT. PARTITION

1 HR. RATED FULL HT. PARTITION

1 HR. RATED FULL HT. PARTITION w/ SOUND INSUL.

NOTE: WALL PLAN IS A FAIR REPRESENTATION OF EXISTING FURNITURE LAYOUT. ALL FURNITURE AND ACCESSORIES ARE ALTERNATE.

EXISTING ELECTRICAL, WATER, GAS LINES TO BE REPLACED AS WHERE SHOWN ON PLAN.



SECOND FLOOR MODIFIED FLOOR PLAN

SCALE 1/4"=1'-0"

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SHEET NO. A-3 of 14

SHEET TITLE: SECOND FLOOR MODIFIED FLOOR PLAN

PROJECT: CONTINENTAL BUILDING REMODEL

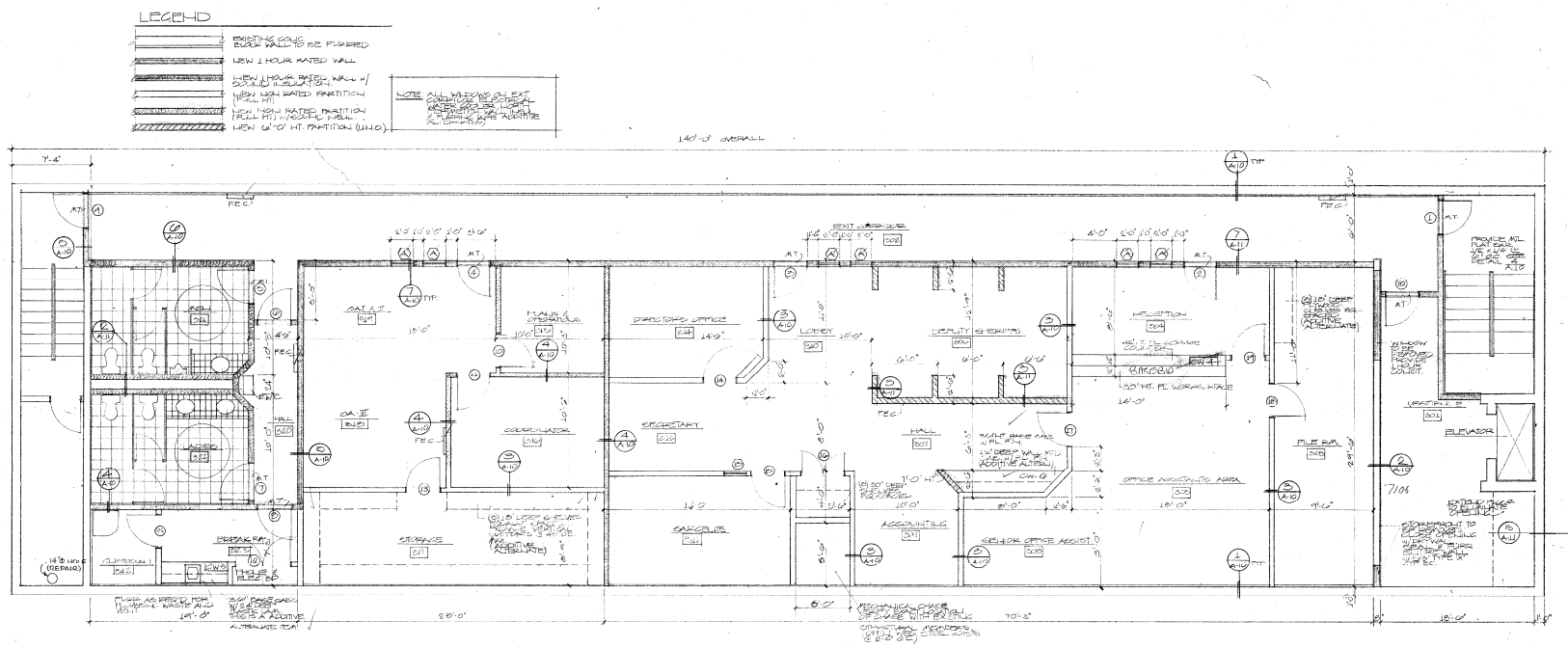
DATE: AUG. 27-90

PROJECT NO. 90007

DRAWN BY: LC

APPROVED BY:

1700



THIRD FLOOR MODIFIED FLOOR PLAN

SCALE 1/8"=1'-0"

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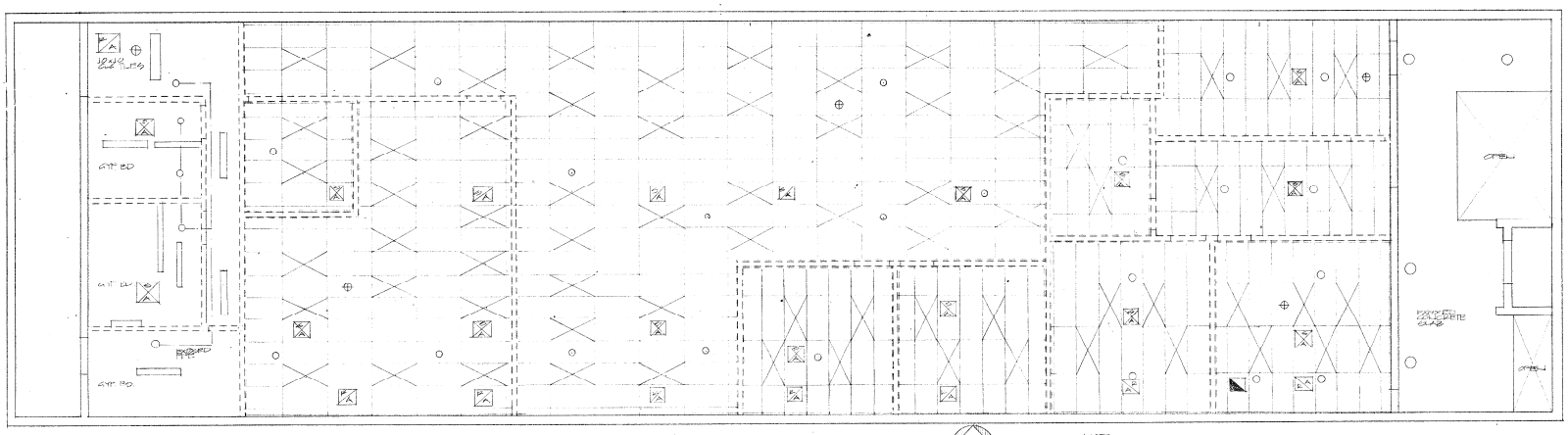
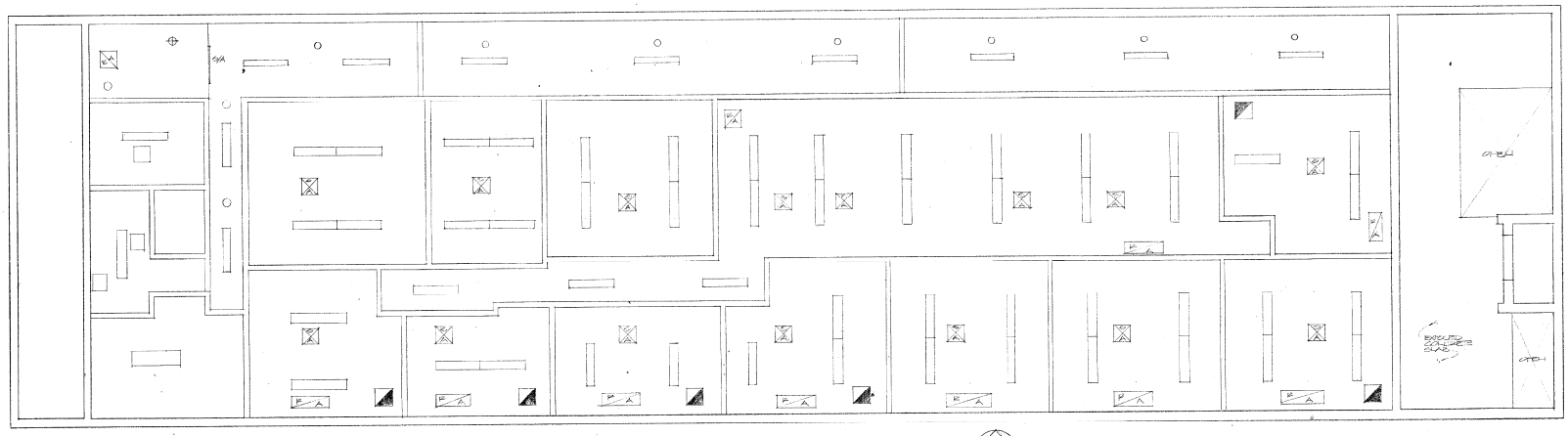
SHEET NO. 14 OF A1-14

SHEET TITLE: THIRD FLOOR MODIFIED FLOOR PLAN	DATE: AUG. 27-90
PROJECT: CENTENNIAL BUILDING REMODEL	PROJECT NO. 90-01
	DRAWN BY: LC
	APPROVED BY:
	1700



2ND FLOOR REFLECTED CEILING PLAN (EXISTING & DEMOLITION)
SCALE 1/4"=1'-0"

NOTE



3RD FLOOR REFLECTED CLG PLAN (EXIST)
SCALE 1/4"=1'-0"

NOTE

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SHEET NO. A-5 OF 14

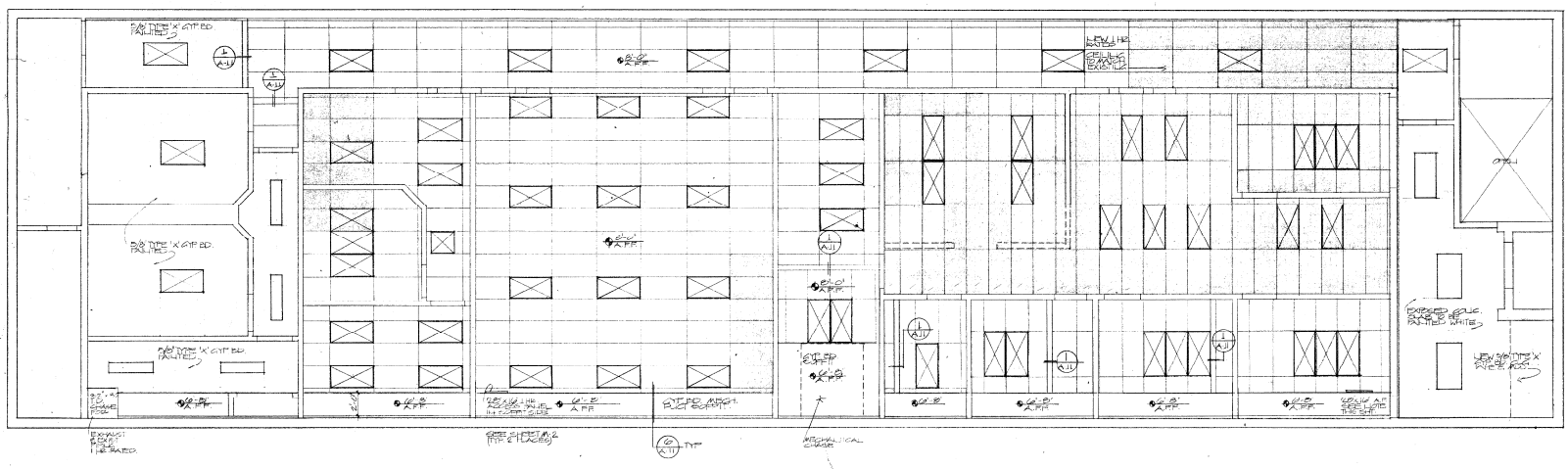
SHEET TITLE: 2ND & 3RD FLOOR REF CLG PLANS (EXISTING & DEMOLITION)
PROJECT: CENTENNIAL BUILDING REMODEL
DATE: AUG-27-90
PROJECT NO. 9007
DRAWN BY: LC
APPROVED BY:
1700

LEGEND

EXISTING SUSPENDED CEILING SYSTEM TO REMAIN

REPLACE CEILING SYSTEM W/ NEW

6'-0" MIN. TRAVELING



MODIFIED 2ND FLOOR REFLECTED CEILING PLAN

SCALE 1/8" = 1'-0"

N

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SHEET NO. A1-6 of 14

SHEET TITLE: 2ND FLOOR MODIFIED REFLECTED CLG. PLAN

PROJECT: CENTENNIAL BUILDING REMODEL

DATE: AUG. 27-90

PROJECT NO. 9007

DRAWN BY: LC

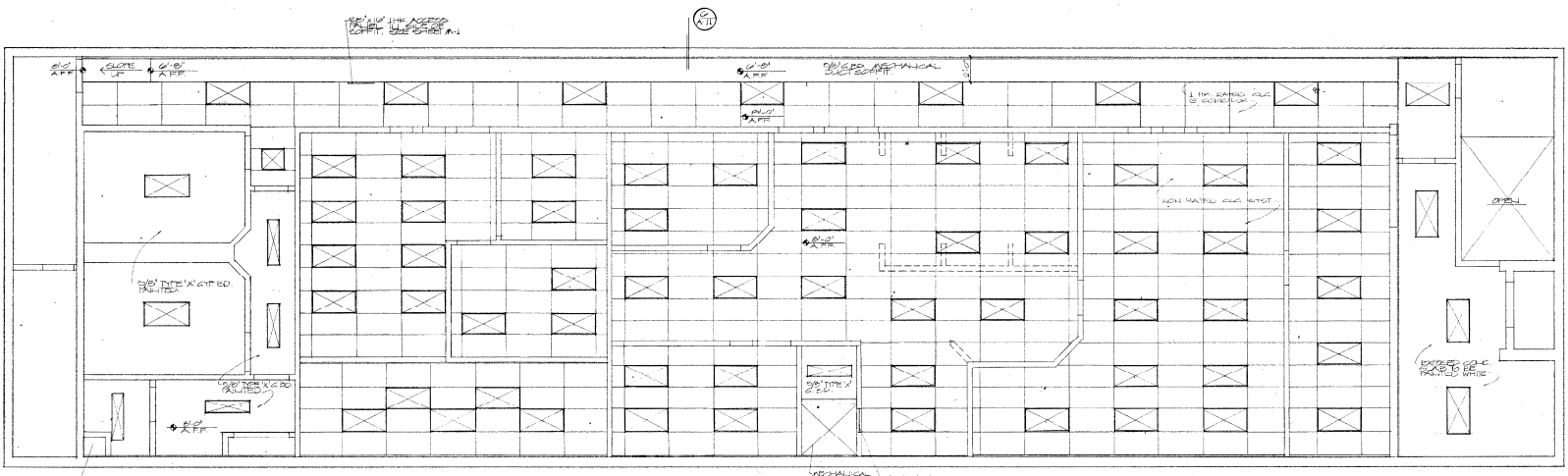
APPROVED BY:

1700

LEGEND

NEW SUSPENDED ACOUSTICAL CLG SYSTEM

6'-0" HT. PARTITIONS



NEW 3RD FLOOR REFLECTED CEILING PLAN

SCALE 1/8"=1'-0"

N

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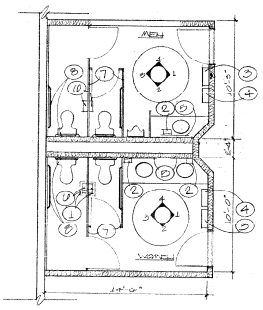
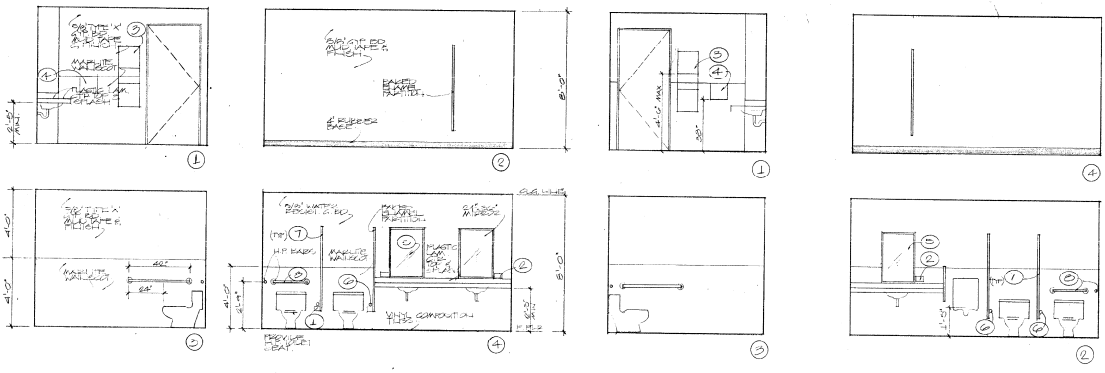
SHEET NO. A1-7 of 14

SHEET TITLE: 3RD FLOOR (NEW) REFLECTED CEILING PLAN	DATE: AUG. 27, 90
	PROJECT NO. 9007
	DRAWN BY: LC
PROJECT: CENTENNIAL BUILDING REMODEL	APPROVED BY:

1700



RESTROOMS PLAN
SCALE 1/4" = 1'-0"

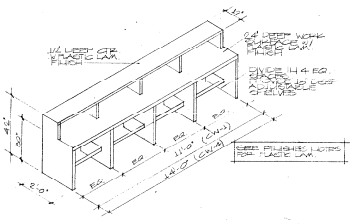


INTERIOR ELEVATIONS LADIES ROOM (TYPICAL BOTH FLOORS)
SCALE: 3/8" = 1'-0"

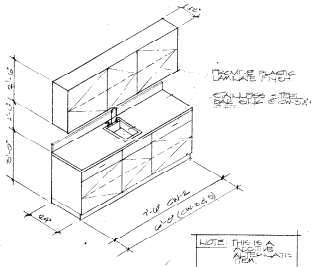
INTERIOR ELEVATIONS MEN'S (TYPICAL BOTH FLOORS)
SCALE: 1/4" = 1'-0" UNLESS OTHERWISE NOTED

TOILET ROOMS ACCESSORIES

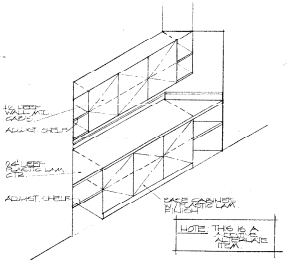
1. SURFACE MOUNTED FEM. NAPKIN DISPOSAL. BOBRICK MODEL B-270.
2. SURFACE MOUNTED LIQUID SOAP DISPENSER. BOBRICK MODEL B-112
3. PAPER TOWEL DISPENSER/DISPOSAL BOBRICK MODEL B-3942
4. ELECTRIC HAND DRYER BOBRICK MODEL B-709 11.9 A. 110V.
5. MIRROR 24"x 36" BOBRICK MODEL B-290
6. TOILET PAPER HOLDER BOBRICK MODEL B-680
7. TOILET PARTITIONS FLOOR MTD. OVERHEAD BRACED BOBRICK 1032 SERIES, STAINLESS STEEL EDGED BAKED ENAMEL FINISH.
8. GRAB BARS BOBRICK MODEL B-6806 x 24" B-6806 x 42"



SERVICE COUNTER @ RM. 203
SCALE 3/8" = 1'-0" CW-1/CW-2



CABINETS @ RM. # 203, 217 & 323
SCALE 3/8" = 1'-0" (3 UNITS) CW-2



CABINETS @ RM # 207
SCALE 3/8" = 1'-0" CW-3

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SHEET NO. A-8 OF 14

SHEET TITLE: INTERIOR ELEVATIONS CASEWORKS ELEVATIONS
PROJECT: CENTENNIAL BUILDING REMODEL
DATE: AUG-27-90
PROJECT NO. 90001
DRAWN BY: LC
APPROVED BY:

1700

DOOR SCHEDULE 2nd FLOOR ONLY

DOOR NO.	DOOR SIZE	DOOR TYPE	DOOR MAT.	DOOR FINISH	DOOR LABEL	FRAME TYPE	FRAME MAT.	FRAME FINISH	FRAME LABEL	HARDWARE NOTES	CLOSER	REMARKS
1	3'0" x 7'	H.M.	16GA	PAINT	1 HR.	H.M.	16 GA.	PAINT	1 HR.	SEE GROUP A	YES	EXIT LIGHT.
2		S.C.	WD		20 MIN				20 MIN	SEE GROUP C	YES	
3										SEE GROUP C	YES	
4										SEE GROUP C	YES	
5										SEE GROUP C	YES	
6										SEE GROUP B	YES	
7										SEE GROUP B	YES	
8										SEE GROUP C	YES	
9		H.M.	16 GA		1 HR.				1 HR.	SEE GROUP A	YES	EXIT LIGHT.
10		S.C.	WD.		—				—	SEE GROUP D	NO	
11					—				—	SEE GROUP D	NO	
12					—				—	SEE GROUP D	NO	
13					—				—	SEE GROUP D	NO	
14					—				—	SEE GROUP D	NO	
15					—				—	SEE GROUP D	NO	
16					—				—	SEE GROUP D	NO	
17					—				—	SEE GROUP D	NO	
18	8' x 8'			M. LAM.	—	GATE	HINGES		—	SEE GROUP F	NO	GATE
19	3' x 7'			PAINT	20 MIN	H.M.	16 GA.		20 MIN	SEE GROUP E	YES	
20	3' x 7'				20 MIN				20 MIN	SEE GROUP E	YES	
21	(PR) 2' x 6'	METAL	16 GA.	PAINT	—	MFR.	MFR.	PAINT	—	—	—	CABINET DOORS

DOOR SCHEDULE 3rd FLOOR ONLY

DOOR NO.	DOOR SIZE	DOOR TYPE	DOOR MAT.	DOOR FINISH	DOOR LABEL	FRAME TYPE	FRAME MAT.	FRAME FINISH	FRAME LABEL	HARDWARE NOTES	CLOSER	REMARKS
1	3'0" x 7'	H.M.	16 GA	PAINT	1 HR.	H.M.	16 GA.	PAINT	1 HR.	SEE GROUP A	YES	EXIT LIGHT
2		S.C.	WD		20 MIN				20 MIN	SEE GROUP C	YES	
3					20 MIN				20 MIN	SEE GROUP C	YES	
4					20 MIN				20 MIN	SEE GROUP C	YES	
5					20 MIN				20 MIN	SEE GROUP B	YES	
6					20 MIN				20 MIN	SEE GROUP E	YES	
7					20 MIN				20 MIN	SEE GROUP B	YES	
8					20 MIN				20 MIN	SEE GROUP C	YES	
9		H.M.	16GA		1 HR.				1 HR.	SEE GROUP A	YES	EXIT LIGHT
10		S.C.	WD		—				—	SEE GROUP D	NO	
11					—				—	SEE GROUP D	NO	
12	(PR) 2' x 6'	METAL	16 GA		—	MFR.	MFR.		—	—	NO	CABINET DOORS
13	3' x 7'				—				—	SEE GROUP D	NO	
14					—				—	SEE GROUP D	NO	
15					—				—	SEE GROUP D	NO	
16	(PR) 2' x 7'				—				—	SEE GROUP D	NO	
17	3' x 7'				—				—	SEE GROUP D	NO	
18					—				—	SEE GROUP D	NO	
19	3' x 8'				—	GATE	HINGES	M. LAM.	—	SEE GROUP F	NO	GATE
20	3' x 7'			PAINT	20 MIN	H.M.	16 GA.	PAINT	20 MIN	SEE GROUP E	YES	
21	2' x 7'				—				—	SEE GROUP D	NO	

HARDWARE SCHEDULE

ITEM	MFR.	ABB.	ACCEPTABLE SUBSTITUTES
BUTTS	HAGER	(H)	STANLEY, NO KNUCKLE
LOCKS	FALCON	(F)	I-LOCK
MISC.	QUALITY	(Q)	PEM I
CLOSER	NORTON	(N)	LCN
EXIT DEVICES	SCAN-TITE	(AR)	SARGENT
WEATHER STRIP	PEMKO	(P)	REESE CORP.

HARDWARE GROUPS

A) DOORS No. 1 & 9 (SECOND & THIRD FLOOR)

B) DOORS No. 5 & 7 (SECOND FLOOR) 5 & 7 (THIRD FLOOR)

C) DOORS No. 2, 3, 4, 6 & 8 (SECOND FLOOR)
2, 3, 4 & 8 (THIRD FLOOR)

D) DOORS No. 10, 11, 12, 13, 14, 15, 16 & 17 (SECOND FLOOR)
10, 11, 12, 13, 14, 15, 16, 17 & 18 (THIRD FLOOR)

E) DOORS No. 19 (SECOND FLOOR)
& (THIRD FLOOR)

F) DOORS No. 18 (SECOND FLOOR)
19 (THIRD FLOOR)

GROUP 'A'

1½ PAIR BUTTS 4½ x 4½, BB850, 5S (H)
1 SET WEATHERSTRIP 579 AR, PAINT (P)
1 DOOR SHOE 411 AV (P)
1 THRESHOLD 172 B (P)
1 CLOSER 7780 SERIES, BRUSHED AL. FIN. (N)
1 WALL BUMPER w/302 TB (Q)
1 DOUBLE ROLLER LATCHES 8888, 841 - 2 (AR)

GROUP 'B'

1 LOCKSET L 9051 LEVER, BOTH SIDES (F)
1½ PAIR BUTTS 4½ x 4½, BB850, 5S (H)
1 SET WEATHERSTRIP 579 AR, PAINT (P)
1 DOOR SHOE 411 AV (P)
1 CLOSER 7780 SERIES, BRUSHED AL. FIN (N)
1 WALL BUMPER w/302 TB (Q)

GROUP 'C'

1 LOCKSET 6008DL (F), @ FIN. & KEY WAY
1½ PAIR BUTTS 4½ x 4½, BB850, 5S (H)
1 SET WEATHERSTRIP 579 AR, PAINT (P)
1 DOOR SHOE 411 AV (P)
1 THRESHOLD 172 B (P)
1 CLOSER 7780 SERIES, BRUSHED AL. FIN (N)
1 WALL BUMPER w/302 TB (Q)

GROUP 'D'

1 LOCKSET 6022 DL (F) @ FIN. & KEY WAY
1½ PAIR BUTTS 4½ x 4½, BB850, 5S (H)
1 WALL BUMPER w/202 TB (Q)

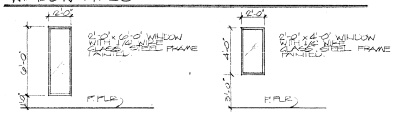
GROUP 'E'

1 LOCKSET 6108 (F) @ FIN. & KEY WAY
1 WALL BUMPER w/302 TB (Q)
1 THRESHOLD 172 D (P)
1 CLOSER 7780 SERIES, BRUSHED AL. FIN (N)
1 DOOR SHOE 411 AV (P)
1 SET WEATHERSTRIP 579 AR (PAINT) (P)
1½ PAIR BUTTS 4½ x 4½, BB850, 5S (H)

GROUP 'F'

SELF CLOSING HINGES
GATE LATCH

WINDOW TYPES



TYPE 'A'
SC: 1/4" = 1'-0"

TYPE 'B'
SC: 1/4" = 1'-0"

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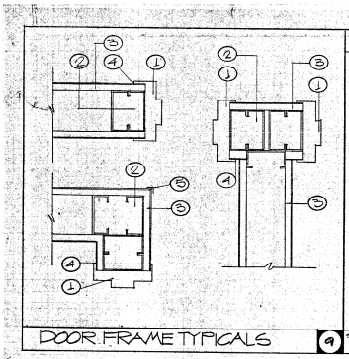
SHEET NO. 14 A-9

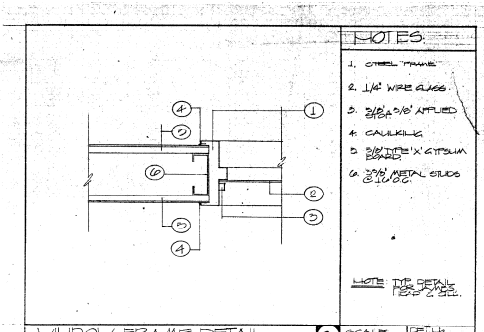
SHEET TITLE: DOOR & HDWRE SCHED WINDOW TYPES
PROJECT: CENTENNIAL BUILDING REMODEL
DATE: 04-27-90
PROJECT NO. #007
DRAWN BY: LC
APPROVED BY:
1700



HOTES:

1. METAL DOOR FRAME
2. 3-5/8" METAL STUDS @ 16" O.C. MAX.
3. 5/8" GYPSUM BOARD
4. CAULKING.
5. CORNER BEAD.

DOOR FRAME TYPICALS (9) SCALE: 3/4"=1'-0" DETAIL #: CODE: 5

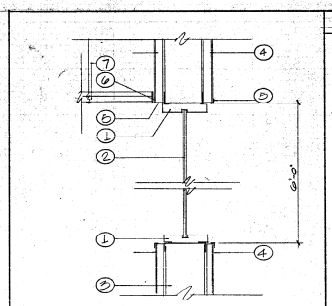


HOTES:

1. STEEL FRAME.
2. 1/4" WIRE GLASS.
3. 3/8" & 3/8" APPLIED
4. CAULKING
5. 5/8" TYPE 'X' GYPSUM BOARD.
6. 3-5/8" METAL STUDS @ 16" O.C.

NOTE: TYP. DETAIL FOR 2 SIDE.

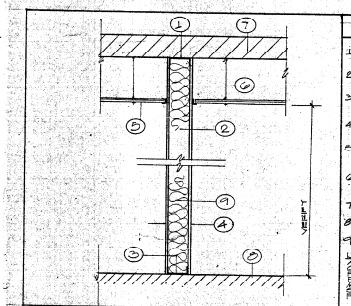
WINDOW FRAME DETAIL (8) SCALE: 3"=1'-0" DET. #: CODE:



HOTES:

1. STEEL FRAME. PAINTED.
2. 1/4" WIRE GLASS
3. 3-5/8" METAL STUDS @ 24" O.C.
4. 5/8" TYPE 'X' G.B.D.
5. 'J' MOLD
6. WALL ANGLE
7. SUSPENDED C.L.G. SYSTEM.

GLAZING DETAIL (7) SCALE: 3"=1'-0" DET. #: CODE:

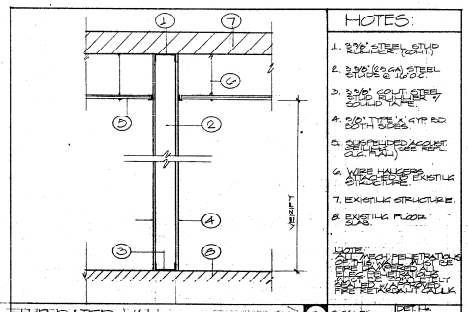


HOTES:

1. 3-5/8" STEEL STUD (GA.17)
2. 3-5/8" (2 GA) STEEL STUDS @ 16" O.C.
3. 3-5/8" GA.17 STEEL SOLID TAPE.
4. 5/8" TYPE 'X' GYP BD BOTH SIDES.
5. SUSPENDED ACOUST. CEILING (SEE REFL. CEIL. PLAN)
6. WIRE HANGERS STRUCTURE: EXISTING
7. EXISTING STRUCTURE:
8. EXISTING FLOOR SLAB.
9. 3-1/2" SOUND INSUL.

NOTE: ALL WOOD PLATES & BLOCKS WITHIN 6" OF FINISH WORK SHALL BE FIRE RESISTANT. ALL JOINTS SHALL BE COMPLETELY FIRE RESISTANT CAULK.

1 HR. RATED WALL (6) SCALE: 1/2"=1'-0" DET. #: CODE: 5

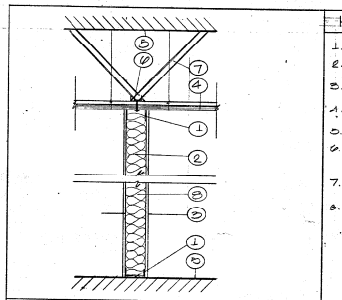


HOTES:

1. 3-5/8" STEEL STUD
2. 3-5/8" (2 GA) STEEL
3. 3-5/8" GA.17 STEEL SOLID TAPE.
4. 5/8" TYPE 'X' GYP BD BOTH SIDES.
5. SUSPENDED ACOUST. CEILING (SEE REFL. CEIL. PLAN)
6. WIRE HANGERS STRUCTURE: EXISTING
7. EXISTING STRUCTURE.
8. EXISTING FLOOR SLAB.

NOTE: ALL WOOD PLATES & BLOCKS WITHIN 6" OF FINISH WORK SHALL BE FIRE RESISTANT. ALL JOINTS SHALL BE COMPLETELY FIRE RESISTANT CAULK.

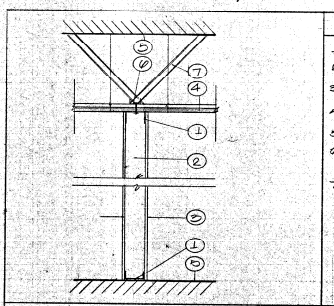
1 HR. RATED WALL (5) SCALE: 1/2"=1'-0" DET. #: CODE: 5



HOTES

1. 3-5/8" STUD RUNNER
2. 3-5/8" METAL STUDS @ 16" O.C.
3. 5/8" GYP BOARD FIRE X
4. SUSPENDED C.L.G.
5. EXISTING CONC. SLAB
6. 1-1/2" METAL CHANNEL SPACER & STUD
7. 1-1/2" METAL CHANNEL SPACER, OPTIONAL
8. 3-1/2" SOUND INSUL.

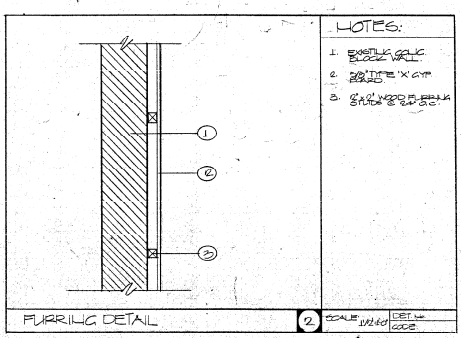
NEW NON RATED PARTITIONS (4) SCALE: 1/2"=1'-0" DET. #: CODE:



HOTES

1. 3-5/8" STUD RUNNER
2. 3-5/8" METAL STUDS @ 16" O.C.
3. 5/8" GYP BOARD FIRE X
4. SUSPENDED C.L.G.
5. EXISTING CONC. SLAB
6. 1-1/2" METAL CHANNEL SPACER & STUD
7. 1-1/2" METAL CHANNEL SPACER

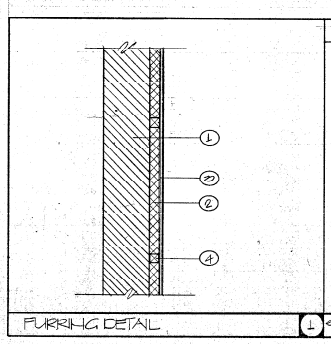
NEW NON RATED PARTITIONS (3) SCALE: 1/2"=1'-0" DET. #: CODE:



HOTES:

1. EXISTING CONC. BLOCK WALL.
2. 5/8" TYPE 'X' GYP BOARD.
3. 1"x2" WOOD FURRING STRIPS @ 24" O.C.

FURRING DETAIL (2) SCALE: 1/2"=1'-0" DET. #: CODE:



HOTES:

1. EXISTING CONC. BLOCK WALL.
2. 1-1/2" RIGID INSULATION
3. 5/8" TYPE 'X' GYP BOARD
4. 1"x2" WOOD FURRING STRIPS @ 24" O.C.

FURRING DETAIL (1) SCALE: 1/2"=1'-0" DET. #: CODE:

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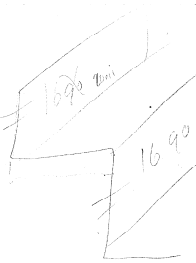
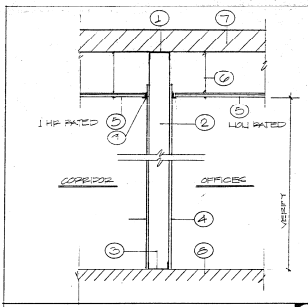
601 South Pecos Road • Las Vegas, Nevada 89101 • (702) 455-4808

DATE: 11-1-90
DRAWN BY: LC
APPROVED BY:
PROJECT NO.: 90-07

SHEET TITLE: ARCHITECTURAL DETAILS
PROJECT: REMODEL

SHEET NO. A-10
OF 14
1700



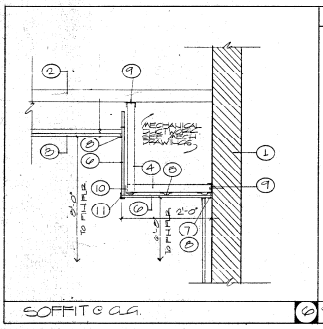


NOTES:

1. 3 5/8" STEEL STUD PARTITION (CLIP)
2. 3 5/8" (92 mm) STEEL
3. 1 5/8" SCHT. STEEL STUD WALL
4. 5/8" TYPE 'X' GYP BD. BOTH SIDES.
5. SATELLITE DISH ANTENNA (SEE PLAN)
6. WIRE HANGER FROM EXISTING STRUCTURE.
7. EXISTING STRUCTURE.
8. EXISTING FLOOR SLAB.
9. APPROVED FIRE PROOF CAULK.

NOTE: ALL FIRE RATED WALLS TO BE CONTINUOUS FROM FLOOR TO FLOOR OR FROM FLOOR TO FIRE RATED CEILING. FIRE RETARDANT CAULK

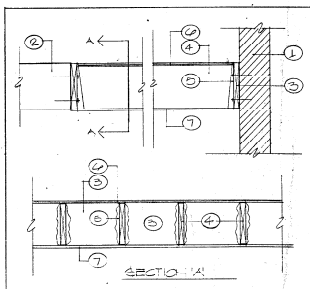
1 HR. RATED WALL — 7 — SCALE 1/2" = 1'-0" — DET. NO. — SHEET NO.



NOTES:

1. EXISTING SOFFIT TO REMAIN.
2. EXISTING STRUCTURE.
3. 3 5/8" STEEL STUD SYSTEM.
4. 1 5/8" METAL 'C' CHANNEL @ 2'-0" O.C.
5. 5/8" HAT CHANNEL.
6. 5/8" TYPE 'X' GYP BD.
7. J MOULDING.
8. APPROVED FIRE PROOF CAULK.
9. METAL SOFFIT TO BE FASTENED TO STRUCTURE.
10. 6'-0" - 20 FT
11. CORNER BEAD

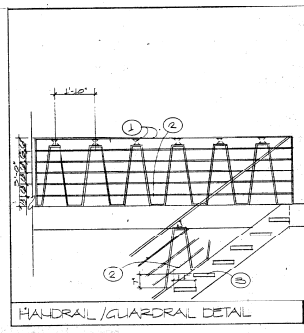
SOFFIT & CLG. — 6 — SCALE 1/2" = 1'-0" — DET. NO. — SHEET NO.



NOTES:

1. EXISTING COLUMN TO REMAIN.
2. EXISTING CONC. SLAB
3. NEW 2 x 12" CONT.
4. NEW 1 5/8" C.S. 16" O.C. STUDS.
5. NEW JOIST HANGERS.
6. NEW 1/2" CD DECK
7. NEW 5/8" TYPE 'X' GYP BOARD

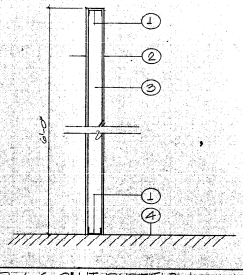
FLOOR DETAIL — 5 — SCALE 1/2" = 1'-0" — DET. NO. — SHEET NO.



NOTES:

1. EXISTING INT. GUARDRAIL & HANDRAIL TO REMAIN.
2. NEW 1 1/4" x 1 1/4" x 1/8" WT. TO BE WELDED & FASTENED TO REMAIN.
3. BRIGHT STEEL TO FINISH ALL CRACKS

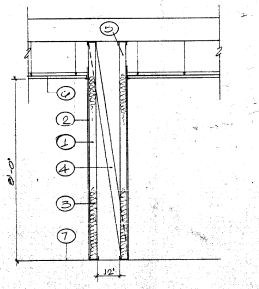
HANDRAIL / GUARDRAIL DETAIL — 4 — SCALE 1/2" = 1'-0" — DET. NO. — SHEET NO.



NOTES:

1. 3 5/8" METAL STUD W/ INSULATION
2. 5/8" TYPE 'X' GYPSUM BOARD BOTH SIDES
3. 3 5/8" METAL STUDS @ 16" O.C.
4. EXISTING CONC. SLAB

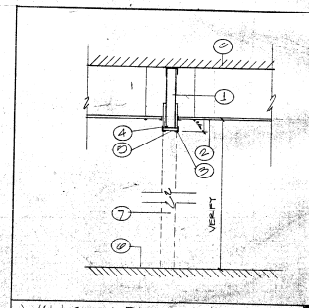
NEW 6'-0" HT. PARTITIONS — 3 — SCALE 1/2" = 1'-0" — DET. NO. — SHEET NO.



NOTES:

1. 3 5/8" METAL STUDS @ 16" O.C.
2. 5/8" WATER RESIST. GYP. BOARD
3. 3/4" PLYWOOD HOLD.
4. 3 5/8" METAL STUD @ 16" O.C.
5. EXISTING SPRINKLER SYSTEM
6. 5/8" TYPE 'X' GYP. BD. BOTH SIDES
7. EXISTING CONCRETE

PLUMBING WALL DETAIL — 2 — SCALE 1/2" = 1'-0" — DET. NO. — SHEET NO.



NOTES:

1. EXISTING WALL.
2. EXISTING SUSPENDED CEILING SYSTEM.
3. CORNER BEAD.
4. NEW 3 5/8" METAL STUDS
5. 5/8" TYPE 'X' GYPSUM BOARD TYPE & WOD.
6. EXISTING CONC. SLAB.
7. EXISTING WALL TO BE DEMOLISHED

WALLS TO BE DEMOLISHED DET. — 1 — SCALE 3/4" = 1'-0" — DET. NO. — SHEET NO.

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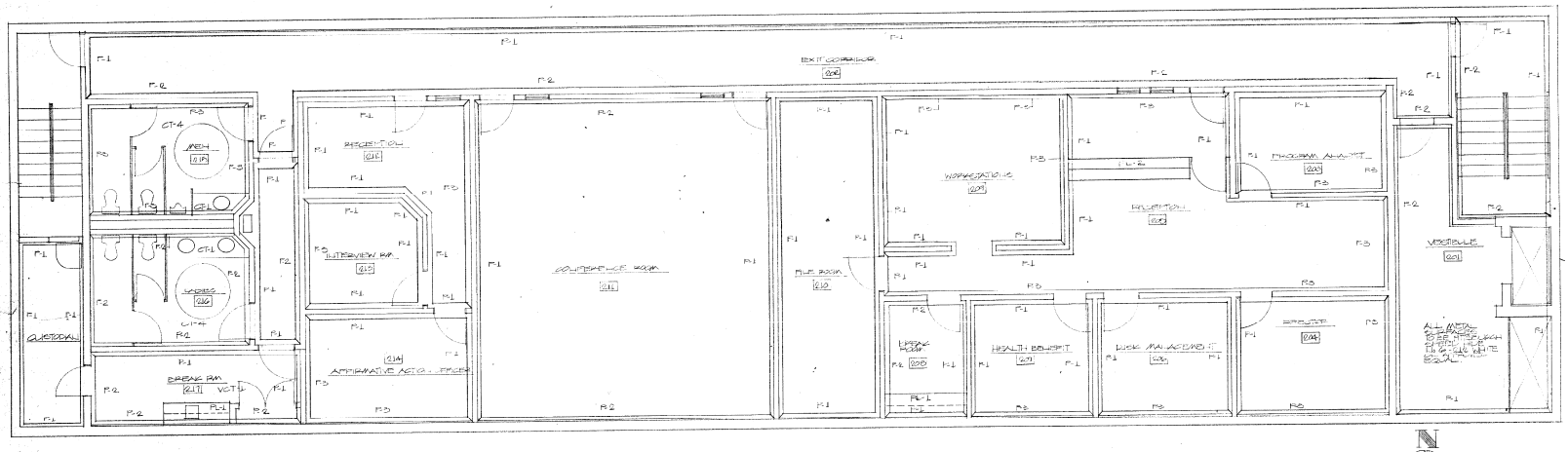
DATE: AUGUST 1990 — PROJECT NO. — DRAWN BY: — APPROVED BY:

SHEET TITLE: ARCHITECTURAL DETAILS

PROJECT: CENTENNIAL ELEC. REMODEL

SHEET NO. A-11

OF 14 (TOTAL)



SECOND FLOOR INTERIOR FINISHES PLAN

SCALE 1/4"=1'-0"

FINISHES NOTES

INTERIOR WALLS: ALL INTERIOR WALLS TO RECEIVE 1 COAT PRIMER, 2 COATS FLAT LATEX, ALL WOOD TRIM TO RECEIVE 1 COAT PRIMER, 2 COATS SEMI-GLOSS LATEX.

PAINT:
- P-1: WHITE SATIN LATEX (OR APPROVED EQUAL) # 6020 W.
- P-2: GRAY TINT LATEX (OR APPROVED EQUAL) # 6021 W.
- P-3: ASH TAUPE (OR APPROVED EQUAL) # 6420 W.

NOTE: ALL PAINT TO BE COORDINATED TO WHITE ... 1.10

PLASTIC LAMINATE:
- PL-1: 'SOLID WHITE' (OR APPROVED EQUAL) # 1-2-1
- PL-2: 'DATELINE' WILSONART (OR APPROVED EQUAL) #

CARPET: EXISTING TO REMAIN. REPAIR & PATCH AS NEEDED. NEW: 'PLANTATION' CARPET TEX BY BAYLOR # 5412-100

DOORS: WOOD DOORS HIGH GLOSS CLEAR LACQUER FINISH

HOLLOW METAL: PAINT SAME COLOR AS ADJACENT WALL

GLAZING: CLEAR 1/4" WITH FILMED

WOOD & WALLBOARD FRAMES: PAINT SAME COLOR AS ADJACENT WALL

CEILING: REPAIR ACT TILES TO MATCH EXISTING (2ND FLOOR)

ALL PLACE VERIFY ALL ... TO THE ... LEVELS ... ALL ... TO BE ...

RESTROOMS FINISHES (A)

CERAMIC TILES: CT-1 AMERICAN OLEAN 'WEST POINT' SERIES MATCH TILE ... SEE SHEET A-1.1 FOR ... CT-1 TILES

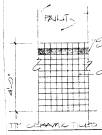
BOTH THESE TILES ARE ... ALTERATED

SEE ELECTRICAL PLANS FOR ... ALTERATIONS

CT-2 AMERICAN OLEAN 'WEST POINT' SERIES 2" X 2" X 3/8" TILE ... (BOTH WALLS)

AMERICAN OLEAN ... BEVELED EDGE

CT-3 AMERICAN OLEAN 'WEST POINT' SERIES 2" X 2" X 3/8" TILE ... (BOTH WALLS)



CT-4 3/4" 'CERAMICA MATCA' (OR EQUAL) ... SEE ELEVATIONS FOR ... HEIGHTS

GROUT COLOR TO MATCH ACCENT TILE

TP CERAMIC TILED WAINSCOT

TOILET PARTITIONS: FLOOR MOUNTED OVERHEAD BRACED PARTITIONS FINISH COLOR GREY (TBM)

RESTROOMS FINISHES (B)

WAINSCOT: WHITE, 4'-0" TO 4'-5" A.F.F. WHITE

FLOOR: VINYL COMPOSITION TILES ARMSTRONG 'FLOORTONE' VCT-1 (OR EQUAL) SEE SHEET A-1.2 FOR TILE TO TO COVER

CT-1 TILES: PL-1 FOR VANITIES ROOMS BOTH FLOORS

PL-2 FOR WALLS ROOMS BOTH FLOORS

(SEE INTERIOR ELEVATIONS) /

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SHEET NO. A-1.2 OF 14

SHEET TITLE: SECOND FLOOR FINISHES PLAN & FINISHES NOTES

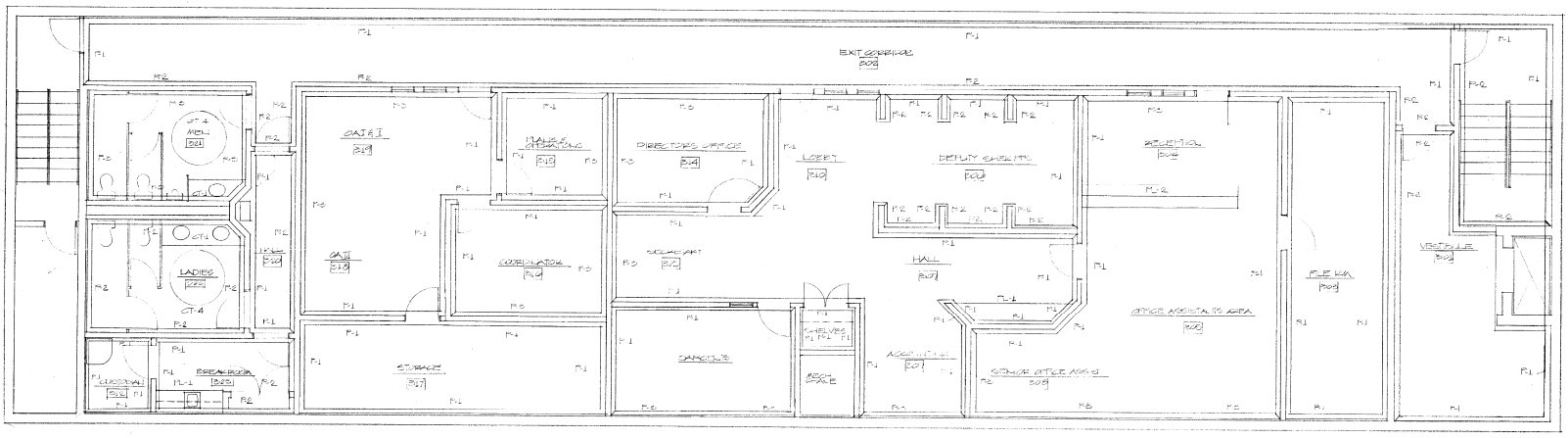
PROJECT: CENTENNIAL BLDG. REMODEL

DATE: AUG-27-90 | PROJECT NO. 9001

DRAWN BY: LC

APPROVED BY:

170



THIRD FLOOR FINISHES PLAN SEE FINISHES NOTES SHEET A-1.2

SCALE 1/4"=1'-0"

N

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SHEET NO. A-1.3 of 14

SHEET TITLE: THIRD FLOOR FINISHES PLAN

PROJECT: CRIMINAL BLDG REMODEL

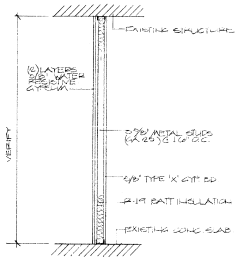
DATE: AUG 27-90

PROJECT NO. 9301

DRAWN BY: LC

APPROVED BY:

(20)



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

DOOR SCHEDULE

DOOR 1 & 2 — [illegible]

DOOR 3 — 6'-0" x 7'-0" WOOD DOOR [illegible] SEE HARDWARE GROUP [illegible] SHEET No. A-14

DOOR 4 — [illegible] 3'-0" x 7'-0" WOOD DOOR [illegible] SEE HARDWARE GROUP [illegible] SHEET No. A-14

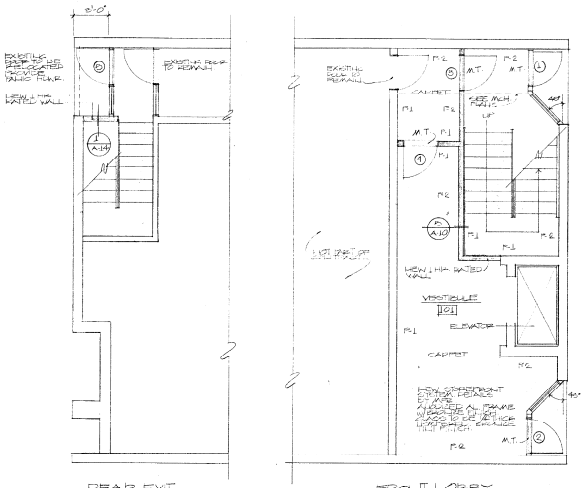
DOOR 5 & 6 — [illegible]

FINISHES

[illegible] NEW FINISHES ON ELEVATOR'S INTERIOR WALLS

[illegible] SHEET No. A-12

NEW CARPET [illegible] SEE CARPET [illegible] SEE SHEET No. A-12 FOR: F1 & F2



REAR EXIT
SCALE: 1/4"=1'-0"

FRONT LOBBY
SCALE: 1/4"=1'-0"

LOBBY & REAR EXIT PLAN @ 1ST FLOOR
SCALE: 1/4"=1'-0"

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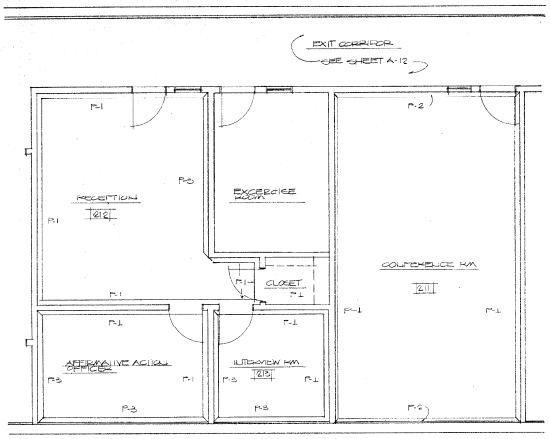
SHEET TITLE: 1ST FLOOR LOBBY & REAR EXIT	DATE: AUG-21-90 PROJECT NO: 9001
	DRAWN BY: LC
PROJECT: CENTENNIAL BLDG REMODEL	APPROVED BY:

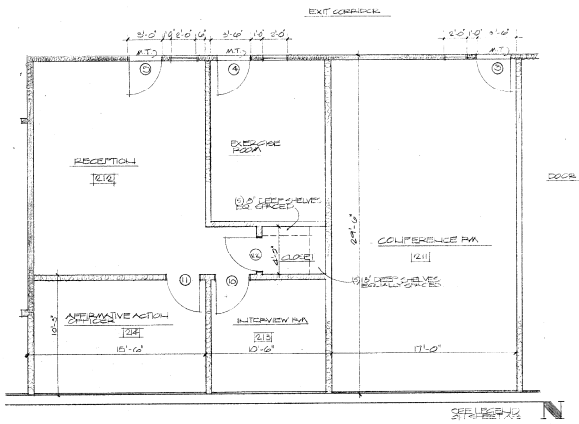
SHEET No. A-14 OF 14

1700



SECOND FLOOR FINISH PLAN
SCALE 1/4"=1'-0"

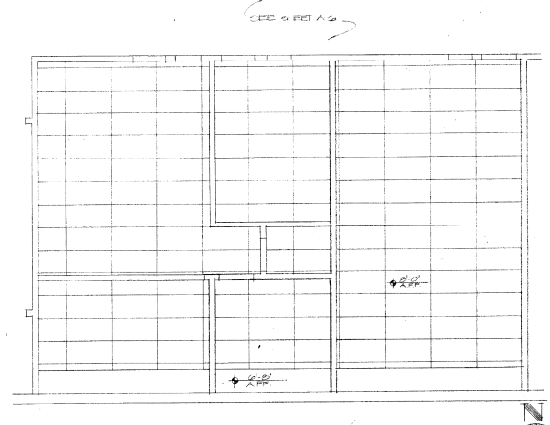
SEE FINISHES DESIGN TEAM SHEET A-12



DOOR 22 3'-0" HOLLOW CORE WOOD PANEL
FRAME 14 M, 16 GA PANEL
HARDWARE [illegible] EXCEPT [illegible] BY OWNER

SECOND FLOOR MODIFIED FLOOR PLAN
SCALE 1/4"=1'-0"

SEE SHEET A-12



SECOND FLOOR REFLECTED C.C. PLAN
SCALE 1/4"=1'-0"

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601 South Pecos Street • Las Vegas, Nevada 89101 • (702) 455-4808

DATE: 5-7-91
PROJECT NO.: 90-1
DRAWN BY: [illegible]
APPROVED BY:

SHEET TITLE: ADDENDUM No. 1
PROJECT: COURTHOUSE BLDG. REMODEL

SHEET NO. SK-1
OF 1 | 701

DIVISION 01 - GENERAL CONDITIONS

All work shall conform to the Uniform Building (U.B.C.) 1988 Edition.

The contractor shall provide all items, articles, materials, operations, or methods listed, mentioned or scheduled on the drawings and/or listed in these specifications, including all labor, materials, equipment and incidentals necessary and required for the completion of the work.

The contractor shall be required to give all required notices, comply with all codes, ordinances, rules, regulations, lawful orders and other legal requirements of any public authority bearing on performance of the work.

The contractor shall be responsible to pay all permits or fees required for the completion of all portions of the work, including the plan review fee and building permit.

All testing required by the documents or required for code compliance shall be the responsibility of the contractor and paid for by the contractor.

Any substitutions of materials or equipment specified shall be approved in writing by the architect prior to incorporating into the work.

The contractor shall be responsible to provide and arrange for any temporary utilities, facilities and controls required for the completion of the work.

Prior to commencing any work the contractor shall submit to the owner a schedule of construction for the owner's review and approval.

The contractor shall require any subcontractor, manufacturer or supplier to execute directly to the owner all guarantees, warranties, or bonds called for in these documents or given as normal practice. In addition, the contractor's personnel shall instruct the owner in the operation of all equipment and provide operating and maintenance manuals prior to receiving the certificate occupancy.

The contractor shall replace any defective materials and correct poor workmanship with no additional cost to the owner, and shall remedy any defects in material and workmanship which appears in one year from the date of substantial completion of the job.

By reference, the General Conditions of the Contract for Construction, A.I.A. Document A201, 1980 Edition, shall be included as a part of these specifications.

Submittals and shop drawings shall be submitted for the following items:

01	General Data	09	Finishes
02	Sitework	10	Specialties
03	Concrete	11	Equipment
04	Masonry	12	Furnishings
05	Metals	13	Special Construction
06	Wood and Plastics	14	Conveying Systems
07	Thermal and Moisture Protection	15	Mechanical
08	Doors and Windows	16	Electrical

DIVISION 6 - WOOD AND PLASTIC

Finish Carpentry, Architectural Woodwork:

All exposed wood - appearance, finish, joining, connections, etc. are of "Architectural" grade and appearance. Utmost care and attention to detail and craftmanship are important. The architect reserves the right to reject and have removed from the job site any and all work not in conformance with the highest standards of materials and workmanship.

The contractor shall provide shop drawings prior to commencement of any work.

Make site dimensional verification of all work under this section.

Millwork, Cabinets and Countertops

Extent of cabinets is shown on the drawings. Contractor to submit manufacturer specifications and shop drawings showing each type of cabinets required.

Cabinet finish (plastic laminate or wood) and color to be selected by architect. Contractor to coordinate prior to fabrication.

Cabinet hardware:
- Hinges: "Blum", concealed, 2 per door.
- Pulls: "Stanley" or equal.
- Shelf brackets: "Grant" 121 and 120 recessed trace at adjustable shelving.

Drawer hardware:

Equip each drawer with side mounted, full extension, ball bearing, nylon roller drawer slides with load capacity of 85 lbs. per pair minimum.

Provide nails, screws, and other anchoring devices of the proper type, size, material and finish for application indicated to provide secure attachment, concealed where possible.

DIVISON 07 - THERMAL AND MOISTURE PROTECTION

Caulking and Sealants:

Joint sealers are required to establish and maintain airtight and waterproof continuous seals on a permanent basis, within recognized limitations of wear and aging as indicated for each application.

Subcontractor shall provide to the owner a guarantee against defects in materials and workmanship for five (5) years after acceptance of the project by the owner. Guarantee shall cover loss of adhesion or cohesion, deterioration, color change and leaking.

Polysulfide Sealant:

Two component polysulfide liquid polymer, Fed. Spec. TT-S-00227E, Class A, Type I or II, ASTM C 920, Type M, Class 25. Color to be selected by Architect.

Use locations:

Around perimeter of exterior door frames, window, sills, heads and louvers.
Around wall mounted light fixtures, conduit, or any other wall penetration.
At masonry wall expansion joint (with backer rod) at all theresholds.
As required to make the building water and weathertight and wherever two exterior dissimilar materials meets.
At top edges of flashing reglets.
Around roofing edges and penetrations.

Silicon Sealant:

Dow Corning 784 or 785 Building Sealant. Fed. Spec. TT-S-001543A, Class A, ASTM C 920, Class 25. Color to be selected by architect.

Use Locations:

Around all plumbing fixtures.
At millwork backsplashes where sinks occur.
At joints between dissimilar materials at all interior locations exposed to water.

Acrylic Latex Caulk:

DAP Late Caulk. One part gun grade. Color to be gray.

Use Locations:

At all interior joints between dissimilar materials and voids to be filled prior to painting.

DIVISION 07

THERMAL AND MOISTURE PROTECTION

RIGID INSULATION

1) Rigid foam insulation shall be "ships-laps" or "tongue and groove" 2" extruded polysterene foam insulation.

2) The density of the polysterene foam shall be such to give an age labeled R-value of 10 @ 75°F.

3) The foam insulation shall be adhered to the masonry substrate with an adhesive recommended by the Manufacturer and placed between 2" (actual) wood furring strips @ 24" o.c. cover with one layer of 5/8" thick Type "X" gypsum board.

DIVISION 08 - DOOR AND WINDOWS

Wood Doors:

Manufacturer shall provide to the Owner a written guarantee, subject to provisions of the Standard Door guarantee of the National Woodwork Manufacturers Association, against defects in materials of wood doors for the "life" of original installation upon final acceptance of the project by the Owner.

All wood doors to be by Nord Door of Everett, Washington or an approved equal. Architect shall select each style of door from manufacturer's standard product line. Contractor to coordinate with Architect on the style selections.

Prefit and premachine wood doors for hardware at factory as far as it is practical.

Utmost care shall be taken in the shipping, handling, and installation of wood doors. Owner reserves the right to reject any door with any visual defects.

Glass and Glazing:

Standards: Consumer Product Safety Commission Safety Standards for Architectural Glazing Materials (42 FR 1428; 16CFR Part 1201). All glass and glazing shall meet all local governing codes.

Materials:

Interior Glass:	1/4" clear tempered glass, or wire glass as required by drawings.
Glazing Sealants: Compound, Gaskets and Tapes:	Provide suitable types as recommended by the glass manufacturer and in accordance with the FGMA Glazing Sealing Systems Manual.
Glazing Accessories:	As required to supplement accessories provided with items to be glazed and to provide a complete installation, including glazing points, chips, shims, angles, beads, setting blocks and spacer strips.

Bracket and Reinforcements: Manufacturer's high-strength aluminum units where fessible; otherwise, nonmagnetic stainless steel or hot-dip galvanized steel complying with ASTM A 386.

Sizes and Profiles: Required sizes for window door and frame units, including profile requirements, are indicated on the drawings. Any variable dimensions are indicated, together with maximum and minimum dimensions required to achieve design requirements and coordination with other work.

DIVISION 08 - DOOR AND WINDOWS (cont'd...)

Prefabrication: To greatest extent possible, complete fabrication, assembly, finishing, hardware application, and other work before shipment to project site. Disassemble components only as necessary for shipment and installation.

Finish Hardware:

The finish hardware supplier shall have in his employ an AHC member of the American Society of Hardware Construction who shall be made available for consultation to the Owner during the course of construction.

Each door shall be provided with complete hardware groups for complete and proper operation. Contractor shall be responsible to coordinate with the Owner each door requirement and provide the proper hardware required.

Provide a method independent of final keying for securing the project during construction. Final keying shall be in accordance with the Owner's instructions. Deliver all keys and duplicates along with an affidavit letter to the Owner stating that all known keys are included.

Recommended Manufacturers

Butts:	Stanley, Hager
Locks:	Schlage, Russwin, Falcon
Stops:	Quality, Builders Brass Works
Closers:	LCN, Norton, Russwin
Weatherstrip:	Pemko (all exterior doors)
Thresholds:	Pemko (provide extenders as required to cover edge of concrete at exterior doors)

All hardware to be light commercial grade.

Lockset styles and finish are to be selected by the Owner.

Mounting heights shall be as stipulated by the Buildings Hardware Manufacturer Association (BHMA).

DIVISION 09 - FINISHES

Drywall

Gypsum Board: ASTM C36, of types, edge configuration and thickness indicated below, in maximum lengths available to minimize end to end butt joints.

Type:	Type 'x' for fire resistant rated assemblies and where indicted.
Edges:	Tapered

Thickness 5/8" unless otherwise indicated.

Trim Accessories: Provide manufacturer's standard trim accessories of types indicted for drywall work, formed of galvanized steel unless otherwise indicated, with either knurled and perforated or expanded flanges for nailing or stapling, and beaded for concealment of flanges in joint compound. Provide corner beads, L type edge trim - beads, 'u' type edge trim beads, special L - keytype edge trim beads, and one price control joint beads.

Joint Treatement Materials:

General:	ASTM C475; type recommended by the manufacturer for the application indicated, except as otherwise indicted.
Joint Tape:	Paper reinforcing type.
Joint Compound:	On interior work provide chemical - hardening - type for bedding and filling, ready mixed vinyl-type or vinyl-type powder type for topping.

Wall/Partition Support Materials:

Studs:	ASTM-C-645, 0.0179" minimum thickness of base metal unless otherwise indicated.
Depth of Section:	3-5/8", except as otherwise indicated.
Runners:	Match Studs; type recommended by stud manufacturer for floor or ceiling support of studs, and for vertical abutment of drywall.

DIVISION 09 - FINISHES

CONCRETE STAIR TREAD REPAIR

MATERIAL

"BELZONA MAGMA QUARTZ" or approved equal.

(Available through James Farr, Southwest Molecular (702)-458-8269)

1) Remove all loose, damaged concrete from the concrete stair treads.

2) Fill cracks and spalled areas per Manufacturers instructions.

3) Apply a 1/4" top coat of Belzona Magma Quartz to the top surface of all treads after repair of cracks and spalled areas per Manufacturers instructions.

4) Finish top coat for a non-slip brushed surface.

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401 South Fourth Street • Las Vegas, Nevada 89101 • (702) 455-4616

DATE: AUG-27-90
PROJECT NO. 9001
DRAWN BY: LC
APPROVED BY:

SHEET TITLE: ARCHITECTURAL SPECIFICATIONS
PROJECT: CENTENNIAL BLDG REMODEL

SHEET NO. SP-1
OF

1700

DIVISION 09 - FINISHES

Exposed Ceiling Systems

Non-Fire Rated

I. MATERIALS

The exposed non-fire rated ceiling suspension shall be the 830 All Aluminum System as manufactured by Chicago Metallic Corporation, or approved equal.

A. All main runners shall conform to the Intermediate Duty classification of ASTM C635.

B. Main runners, cross tees, variable placement tees and grid adapters shall be of cold rolled aluminum and aluminum cap with a standard white (factory applied paint) finish.

C. ANGLES: Wall angle molding shall be of cold rolled aluminum with a standard white (factory applied paint) finish.
CHANNELS: Wall channel moldings shall be of cold rolled electro-galvanized steel with a standard white factory applied paint finish.

II. INSTALLATION

A. The exposed non-fire rated ceiling suspension system shall be installed per the recommendations of ASTM C636. Loading of any component may not cause deflection of more than 1/360 of the span.

B. Main runners shall be installed 24 inches on center, and be directly suspended by not less that 12 gage galvanized steel wire spaced (48) (60) inches on center along the main runners. Hanger wires shall be wrapped lightly at least 3 full turns.

C. Main runners shall be interconnected by cross tees 48 inches long to form 24"x48" modules. Wherever shown on the design plans, these modules shall be divided by cross tees 24 inches long installed perpendicular to the other cross tees to form 24"x48" sections. Proper length cross tees shall also be installed adjacent to all recessed light fixtures on each side not supported by a main runner.

D. Wall angle moldings shall be installed wherever suspension components meet vertical surfaces.

E. Pay particular attention to the number and placement of hanger wires around light fixtures as marked on design plans. Hanger wires shall be wrapped tightly at least 3 full turns.

DIVISION 09 - FINISHES

EXPOSED CEILING SYSTEMS

FIRE RATED

I. MATERIALS

The exposed fire rated ceiling suspension system shall be the 1850 System as manufactured by Chicago Metallic Corporation or approved equal.

A. All main runners shall conform to the intermediate Duty classification of ASTM C635.

B. Main runners and cross tees shall be of cold rolled electro-galvanized steel and aluminum cap with a standard white factory applied paint finish.

C. (Wall angles and channels are interchangeable, as long as dimensions and steel thickness are the same as specified in the appropriate U.L. Design).

ANGLES: Wall angle moldings shall be of cold rolled aluminum and a standard white factory applied paint finish.

CHANNELS: Wall channel moldings shall be of cold rolled electro-galvanized steel and a standard white factory applied paint finish.

D. The system shall provide one hour assembly and all main runners and locking cross tees shall carry the U.L. label.

II. INSTALLATION

Refer to the appropriate Design in the Underwriters Laboratories Fire resistance index for allowable component and hanger wire spacing, and number and size of light fixtures, air ducts and acoustical panels.

A. The exposed fire rated ceiling suspension system shall be installed per the recommendations of ASTM C636, and as specified in U.L. Design. Loading of any component may not cause deflection of more than 1/360 of the span.

B. Main runners shall be installed 24 inches on center, and be directly suspended by not less than 12 gage galvanized steel wire spaced 48 inches on center along the main runners. Hanger wires shall be wrapped tightly at least 3 full turns.

C. Main runners shall be interconnected by cross tees 46 inches long to form 4'-0" x 2"-0" modules. Proper length cross tees shall also be installed adjacent to all recessed light fixtures on each side not supported by a main runner.

D. Wall angle moldings shall be installed wherever suspension components meet vertical surfaces.

E. Pay particular attention to the number and placement of hanger wires around light fixtures as marked on the design plans. Hanger wires shall be wrapped tightly at least 3 full turns. Also, pay particular attention to fixture and duct protection as listed in the Underwriters Laboratories Fire Resistance Index for Design.

F. (For ceiling panels weighing less than 1 lb/sq.ft.)-Install two proper type hold down clips per locking cross tee. Wherever access panels are shown on the design plans, substitute two proper type accessible hold down clips.

DIVISION 09 - FINISHES

Carpeting:

Type: Level loop.
Gauge: 1/10.
Stitches/Mgh.: 8.4.
Face Yarn: 100" Antron. Nylon with static control.
Primary Backing: Synthetic.
Secondary Backing: Jute.
Hollytex Carpet Mills.
Coordinate color selection with Architect.

Carpet Edge Guard: Extruded or molded heavy duty vinyl or rubber edge guard, with minimum 2: wide anchorage flange.

Installation Adhesive: Water-resistant, non-staining type as recommended by carpet manufacturer.

Seaming Cement: Hot-melt seaming adhesive as recommended by carpet manufacturer.

DIVISION 09 - FINISHES

SUSPENDED DRYWALL FURRING SYSTEMS

NON-FIRE RATED

I. MATERIALS

The gypsum drywall non-fire rated furring system shall be the 640 System as manufactured by Chicago Metallic Corporation or approved equal.

A. All furring runners and furring tees shall be 1-1/2 inches high double web .020 electro-galvanized steel with a 1-3/8 inches wide capped flange face.

B. All cross tees shall be 1-1/2 inches high double web .020 electro-galvanized steel with a 15/16 inch wide capped flange face.

C. Wall track shall be 1-1/2 - 1-5/8 inches inside diameter .020 electro-galvanized steel with 15/16 - 1 inch wide top and bottom flange faces.

II. INSTALLATION

A. Furring runners shall be installed 48 inches on center, and be directly suspended by not less than 12 gage galvanized steel wire spaced 48 inches on center along the furring runners. Hanger wires shall be wrapped tightly at least 3 full turns.

B. Furring runners shall be interconnected by furring tees 48 inches long spaced 24 inches on center. Furring tees shall also be installed adjacent to all recessed light fixtures on each side not supported by a furring runner.

C. Wall track shall be installed wherever suspension components meet vertical surfaces, and the suspension component ends shall be butt cut to fit into the wall track.

D. Pay particular attention to the number and placement of hanger wires around light fixtures as marked on the design plans. Hanger wires shall be wrapped tightly at least 3 full turns.

E. Gypsum drywall panels 5/8 inch by 4 feet by 8 feet long shall be screw attached 12 inches on center to all furring runners, furring trees, cross tees and wall track, with the long dimension paralleling the furring runners in all possible instances and joints staggered. Loading of any suspension component may not cause deflection of more than 1/360 of the span.

F. Wherever shown on the design plans, access 24" x 30"shall be provied in the manner shown and described in detail on the design plans.

DIVISION 09 - FINISHES

Acoustical Ceiling Boards

I. GENERAL:

All acoustical ceiling boards shall be the product of one manufacturer, nominally sized 24 inches by 48 inches by 3/4 inches but properly dimensioned to fit the grid pattern shown on drawings, shall have a noise reduction coefficient (NEC) of .60-.70 in a number seven mounting, and a flame spread index of 0 - 25 smoke developed 50 or less in accordance with Class I requirements of Federal Specifications SS-S-1182.

MANUFACTURERS

1. U.S. Gypsum: "TAPA", square edges

2. Armstrong: "Travertone Rockummon"

II. INSTALLATION

a) Prior to all work of this section, carefully inspect the installed work of all other trades and verify that all such work is complete to the point where this installation may properly commence.

b) Verify that suspended ceiling may be installed in accordance with the original design, all codes and regulations, and the approved shop drawingss.

c) Submittals:

Product Data: Manufacturer's products specifications and installation instructions for each acoustical ceiling material required, and for each suspension system, and other data as required to show compliance with these specifications.

Samples: Set of 6" x 4" square samples for each acoustical unit required, showing full range of exposed color and texture to be expected in completed work.

Discrepancies: In the event of discrepancy immediately notify the architect. Do not proceed with installation in areas of discrepancy until all such discrepancies have been fully resolved.

DIVISION 09 - FINISHES

Painting:

Manufacturer: All paint types and colors shall be supplied by the Frazee Company or approved equal, unless otherwise indicated.

Color Pigments: Pure, non-fading, applicable types to suit substrates and service indicated.

Interior Paint Schedule:

Gypsum Drywall Systems: Odorless Semi-Gloss Alkyd Enamel Finish - 3 coats with total dry film thickness not less than 2.5 mils.

Wood Doors/Trims: Stained, varnish rubbed finish, 3 coats over stain plus filler on open grain wood.

Contractor shall properly prepare all painted surfaces and execute this work in conformance to the manufacturers recommendations for each particular surface to be painted.

DIVISION 10
SPECIALTIES

FIREFIGHTING DEVICES

1.01 DESCRIPTION

Firefighting devices described in this section consist of hand-portable fire extinguishers and metal cabinets, located where shown on the drawings.

1.02 QUALITY ASSURANCE:

A. Qualifications of Installers: For installation and servicing of the work of this section, use only personnel who are completely trained and experienced in the required skills and who are completely familiar with the manufacturer's recommendations and all pertinent code requirements.

B. Codes and Standards: In addition to complying with all pertinent codes and regulations, all firefighting devices shall be approved by Underwriters' Laboratories, Inc., shall bear the UL label, and shall be approved by the Fire Marshal.

2.01 FIRE EXTINGUISHERS:

All fire extinguishers shall have a minimum UL rating of 2A:10BC and shall be "Larsen Model MP" as manufactured by Larsen's Manufacturing Company, or an equal approved in advance by the Architect.

2.02 CABINETS:

A. Type and Style: All fire extinguisher cabinets shall be metal, fully recessed with break-glass panel, sized to fit within the partition or wall depth.

B. Color: All fire extinguisher cabinets shall be factory prefinished with baked enamel in the colors selected by the Architect from the standard range of colors of the selected manufacturer.

C. Manufacturers:

1. Design is based on Model 2409-5R of Larsen's Manufacturing Company.

2. All fire extinguisher cabinets shall be the products of the same manufacturer and shall be the ones upon which design was based, one of the following, or an equal approved in advance by the Architect:

a. Morris Industries Model 483FF-328
b. J.L. Industries Model 99A-V

3.02 INSTALLATION:

Install the firefighting devices where indicated on the drawings and in full accordance with all pertinent regulations and the manufacturer's recommendations, setting the top of the cabinet no more than five feet above the finish floor, and anchoring all components firmly in place for long life under hard use.

3.03 SERVICE:

Determine the approximate completion date of the work, then inspect, charge, and tape the fire extinguishers at a date not more than ten days before or less than one day before actual completion date of the work.

Text: Architectural (DIV10SPEC)
3-29-90

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DATE: AUG-27-90
PROJECT NO. 9007
DRAWN BY: LC
APPROVED BY:

SHEET TITLE: ARCHITECTURAL SPECIFICATIONS
PROJECT: CENTENNIAL BLDG REMODEL

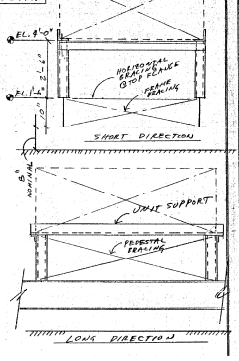
SHEET NO. SP-2
OF 1700

BILL DE LA GARZA, Ph.D.
STRUCTURAL ENGINEER

MADE BY: W.d.l.G. DATE 8-28-90
CHECKED BY: SHEET 6 OF

PROJECT:

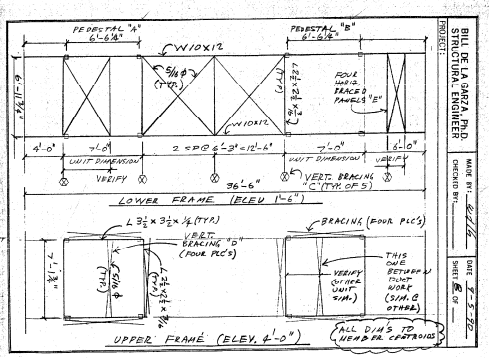
PEDESTAL DESIGN



BILL DE LA GARZA, Ph.D.
STRUCTURAL ENGINEER

MADE BY: W.d.l.G. DATE 8-29-90
CHECKED BY: SHEET 7 OF

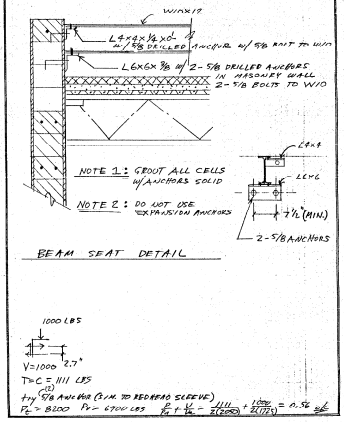
PROJECT:



BILL DE LA GARZA, Ph.D.
STRUCTURAL ENGINEER

MADE BY: W.d.l.G. DATE 9-10-90
CHECKED BY: SHEET 9 OF

PROJECT:



STRUCTURAL STEEL

1. STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE AISC SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS (LATEST EDITION AND SUPPLEMENTS).

2. ALL STRUCTURAL STEEL SHALL CONFORM TO THE ASTM DESIGNATION A-36 UNLESS OTHERWISE NOTED.

3. PIPE COLUMNS SHALL CONFORM TO ASTM DESIGNATION A-53 GRADE 'B', ALL STEEL TUBES SHALL CONFORM TO ASTM A500 GRADE 'B' COLD FORMED TUBES WITH Fy = 46 KSI.

4. ALL BOLTS SHALL CONFORM TO ASTM A 307

5. THE STRUCTURAL STEEL FABRICATOR AND STEEL DECKING FABRICATOR SHALL FURNISH SHOP DRAWINGS OF ALL STEEL AND STEEL DECKING, RESPONSIVELY FOR ARCHITECT'S REVIEW BEFORE FABRICATION.

6. ALL HOLES IN STEEL SHALL BE 1/16 IN. LARGER DIAMETER THAN NOMINAL SIZE OF BOLT USED, EXCEPT AS NOTED.

7. ALL STRUCTURAL STEEL SURFACES THAT ARE ENCASED IN CONCRETE OR MASONRY OR ARE ENCASED BY BUILDING FINISH, SHALL BE LEFT UNPAINTED.

8. ALL WELDS SHALL BE IN CONFORMITY WITH THE STRUCTURAL WELDING CODE AWS D1.1) OF THE AMERICAN WELDING SOCIETY. USE E7001X ELECTRODES.

9. WELD LENGTHS CALLED FOR ON PLANS ARE THE NET EFFECTIVE LENGTH REQUIRED.

D. REINFORCING STEEL (FOR CONCRETE AND MASONRY)

1. ALL REINFORCING STEEL SHALL BE DETAILED AND PLACED IN CONFORMANCE WITH THE 'BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE' (ACI 318 LATEST APPROVED EDITION), AND THE 'MANUAL OF STANDARD PRACTICE FOR REINFORCED CONCRETE CONSTRUCTION' BY THE C.R.S.I. AND THE W.C.R.S.I., AS MODIFIED BY THE PROJECT DRAWINGS.

2. REINFORCING BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A-615 GRADE 60 EXCEPT TIES, STIRRUPS AND NON-STRUCTURAL CONCRETE SUCH AS SLABS ON GRADE, WHICH MAY BE GRADE 40, UNLESS NOTED OTHERWISE.

3. WELDING OF REINFORCEMENT SHALL BE WITH LOW HYDROGEN ELECTRODES IN CONFORMANCE WITH 'RECOMMENDED PRACTICES FOR WELDING REINFORCING STEEL, ETC.', AMERICAN WELDING SOCIETY, AWS-D12.1.

4. ALL REINFORCING BAR BENDS SHALL BE MADE COLD.

5. DOWELS BETWEEN FOOTINGS AND WALLS OR COLUMNS SHALL BE THE SAME GRADE, SIZE AND SPACING OR NUMBER AS THE VERTICAL REINFORCING, RESPECTIVELY.

MASONRY (CONCRETE BLOCK)

1. CONCRETE BLOCK SHALL BE HOLLOW LOAD-BEARING CONCRETE MASONRY UNITS CONFORMING TO ASTM C90-70. USE OPEN END UNITS FOR STACKED BOND PATTERN AND BOND BEAM UNITS AT HORIZONTAL REINFORCING.

2. REINFORCING BARS - SEE NOTES UNDER 'REINFORCING STEEL' FOR REQUIREMENTS. ASTM 615, GRADE , EXCEPT AS NOTED.

3. MORTAR MIX SHALL CONFORM TO REQUIREMENTS FOR U.B.C. TABLE 24-A, TYPE S, AND PROJECT SPECIFICATIONS. MORTAR SHALL ATTAIN A COMPRESSIVE STRENGTH OF 1800 PSI AT 28 DAYS. ~~ADMIXTURE SHALL BE ONE PINT OF RED LABEL BUCKEYE PER SACK OF CEMENT.~~

4. GROUT SHALL CONFORM TO REQUIREMENTS OF SECTION 2403 OF U.B.C. FOR COARSE GROUT. COARSE GROUT SHALL HAVE A MINIMUM OF ONE PART OF PEA GRAVEL FOR ESSENTIAL BUILDINGS. USE SUFFICIENT WATER FOR GROUT TO FLOW INTO ALL JOINTS OF THE MASONRY WITHOUT SEGREGATION. GROUT SHALL ATTAIN A COMPRESSIVE STRENGTH OF 2000 PSI AT 28 DAYS.

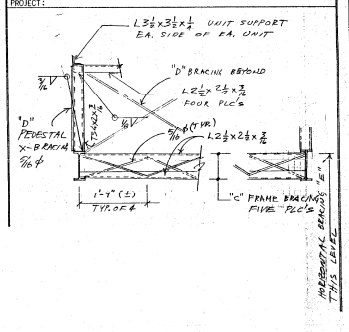
5. PROVIDE A MINIMUM OF 1/2 IN. GROUT BETWEEN MAIN REINFORCING AND MASONRY UNITS.

6. ALL CELLS IN CONCRETE BLOCKS SHALL BE FILLED SOLID WITH GROUT, EXCEPT AS NOTED IN THE DRAWINGS.

BILL DE LA GARZA, Ph.D.
STRUCTURAL ENGINEER

MADE BY: W.d.l.G. DATE 8-29-90
CHECKED BY: SHEET 12 OF

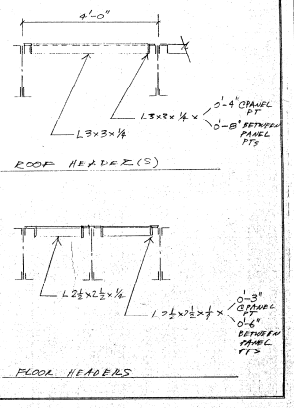
PROJECT:



BILL DE LA GARZA, Ph.D.
STRUCTURAL ENGINEER

MADE BY: W.d.l.G. DATE 8-29-90
CHECKED BY: SHEET 11 OF

PROJECT:

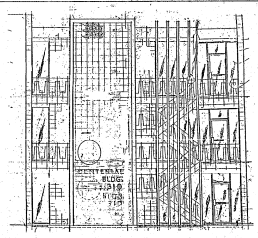


BILL DE LA GARZA, Ph.D.
STRUCTURAL ENGINEER

MADE BY: DATE
CHECKED BY: SHEET OF

PROJECT:

ADD ROOFTOP UNITS TO EXISTING BUILDING



REGISTERED PROFESSIONAL ENGINEER WILLIAM DE LA GARZA CIVIL STRUCTURAL STATE OF NEVADA

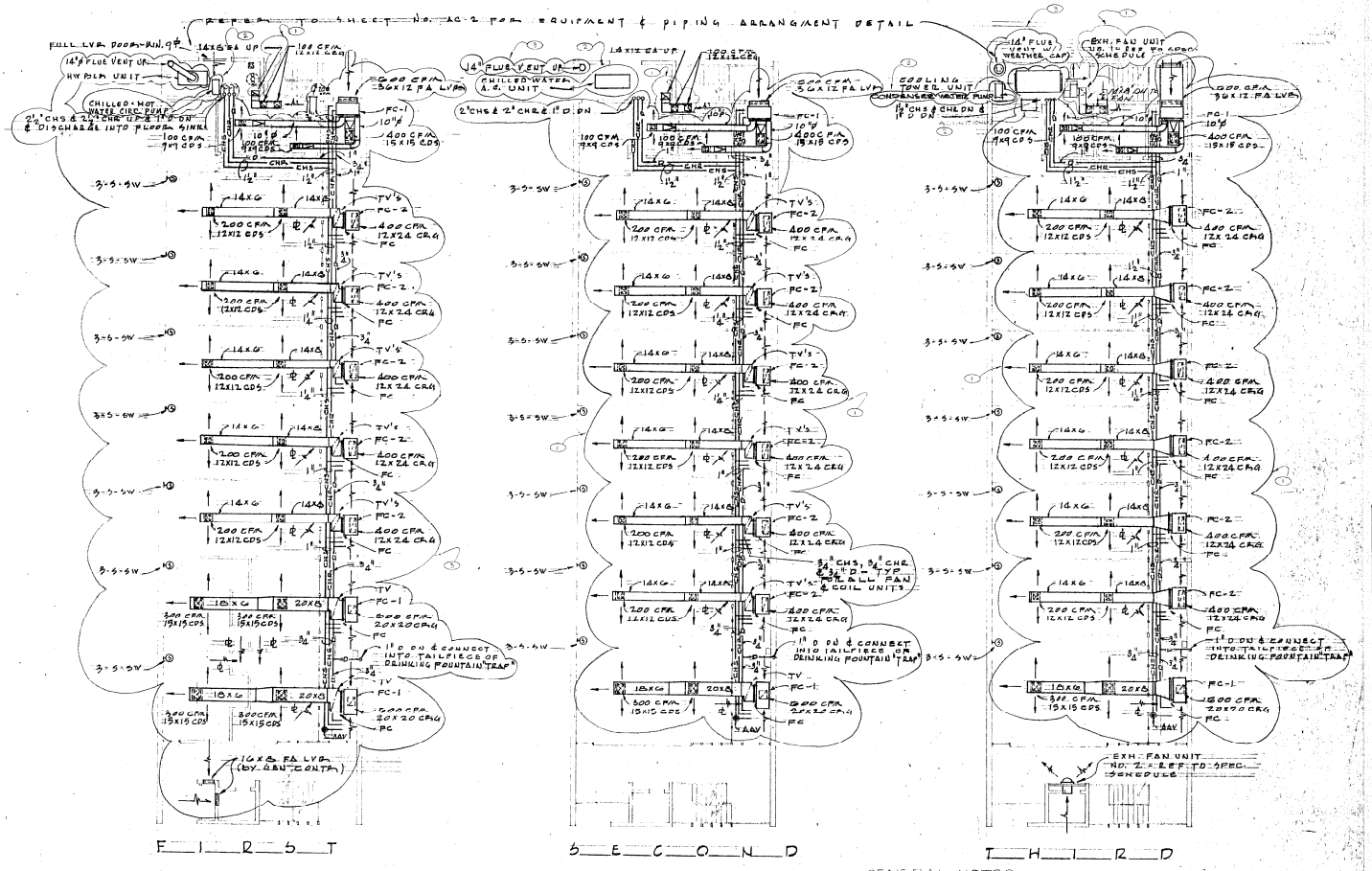
CLARK COUNTY
General Services Department • Facilities Services Division
401 South Fourth Street • Las Vegas, Nevada 89101 • (702) 455-4616

DATE:
DRAWN BY: BLC
APPROVED BY:
PROJECT NO. 90-027

SHEET TITLE: STRUCTURAL PLAN, NOTES & DETAILS
PROJECT: CENTENNIAL BUILDING REMODEL

SHEET NO. S-1
OF 1

1700



GENERAL NOTES:

1. SHEETS MPD-1 & 2 ARE THE ORIGINAL DESIGN DRAWINGS FOR THE EXISTING HVAC SYSTEMS. THEY ARE NOT INTENDED TO EXHIBIT THE EXACT CONFIGURATION BUT ARE INCLUDED ONLY TO REPRESENT THE SCOPE OF DEMOLITION WORK. A SITE VISIT TO VERIFY DAMES IS STRONGLY RECOMENDED.
2. SEE SHEET MPD-2 FOR NOTES 1 THROUGH 4.

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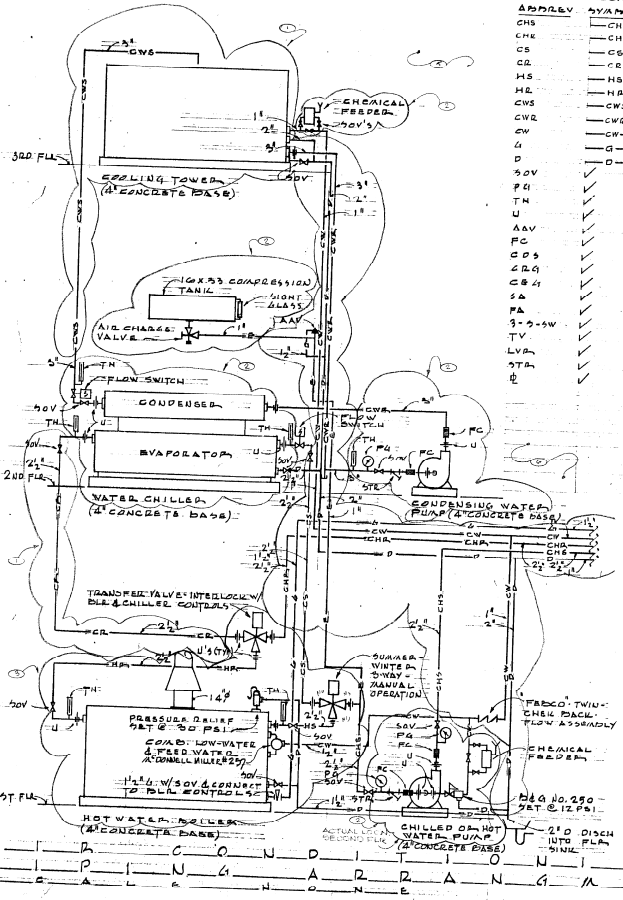
DATE: 8/90 PROJECT NO. 1-0009
DRAWN BY: TRA
APPROVED BY:

SHEET TITLE: MECHANICAL/PLUMBING DEMOLITION PLAN
PROJECT: CENTENNIAL BUILDING REMODEL

SHEET NO. MPD1
OF 2



LEGEND

ABBREV	SYMBOL	DESCRIPTION
CHS	CHS	CHILLED-HOT WATER SUPPLY
CHR	CHR	CHILLED-HOT WATER RETURN
CS	CS	CHILLED WATER SUPPLY
CR	CR	CHILLED WATER RETURN
HS	HS	HOT WATER SUPPLY
HR	HR	HOT WATER RETURN
CWS	CWS	CONDENSING WATER SUPPLY
CWR	CWR	CONDENSING WATER RETURN
CW	CW	COLD WATER
G	G	GAS
D	D	DRAIN
SOV		SHUT OFF VALVE
PG		PRESSURE GAUGE
TN		THERMOMETER
U		UNION
AAV		AUTOMATIC AIR VENT
FC		FLEXIBLE CONNECTION
CDS		CEILING DIFFUSER SUPPLY
CRG		CEILING RETURN GRILLE
CEG		CEILING EXHAUST GRILLE
SA		SUPPLY AIR
FA		FRESH AIR
3-S-SW		3-SPEED FAN SWITCH
TV		TURNING VANE
LVR		LOUVER
STR		STRAINER
DL		DOOR LOUVER

SPECIFICATION SCHEDULE

(1) WATER CHILLER UNIT:
CARRIER NO. 30HM030, RATED @ 279 TONS BASED ON 45° LWT, 55° EWT @ 95° COND. WATER TEMP. W/ 27.0 KW (2-15 HP COMPRESSORS). 230-3-60

(2) COOLING TOWER UNIT:
MARLEY "AQUATOWER" NO. 4425, RATED @ 30 TONS BASED ON 95° EWT, 85° LWT @ 78° WB W/ 1 HP FAN MOTOR. 230-3-60

(3) HOT WATER BOILER UNIT:
LAARS MODEL NO. LC-20, 675 MBH INPUT @ 700 MBH OUTPUT.

(4) CHILLED/HOT WATER CIRCULATING PUMP UNIT: 230-3-60
WEINMAN NO. 1 VKH-4, 70 GPM @ 110 FT. HD., 5 HP MOTOR.

(5) CONDENSING WATER CIRCULATING PUMP UNIT: 230-3-60
WEINMAN NO. 2KB-4, 90 GPM @ 60 FT. HD., 5 HP MOTOR.

(6) FAN COIL UNITS:
CARRIER "WEATHERMAKER" MODEL TYPE 33GW. (MARK FC-1) RATED @ 800 CFM BASED ON 17.1 MBH COOLING, 43.35 MBH HEATING @ 3.6 GPM. (MARK FC-2) RATED @ 400 CFM BASED ON 10.4 MBH COOLING, 30.8 MBH HEATING @ 2.4 GPM. 120-1-60

(7) EXHAUST FAN UNIT NO. 1:
UTILITY FAN - MODEL U100F, 600 CFM @ 5/8" SP, 1/4 HP MOTOR 120-1-60

(8) EXHAUST FAN UNIT NO. 2:
USUN-AIR MODEL NO. 70 CW, 200 CFM @ 1/4" SP @ 1/20 HP MTR. 120-1-60

NOTES

(a) DUCTWORK PER ASHRAE STDS.
(b) DUCT INSULATION - JOHNS-MANVILLE FIBER GLASS MICROLITE 3/4 LB DENSITY. 3/4" THICK.
(c) WATER PIPING - BLK. STEEL SCH. 40 1/2" I. SCRW. & DR. WELD FTGS.
(d) WATER PIPE INSULATION - JOHNS-MANVILLE MICROLITE FIBER GLASS 1½" THICK W/VAPOR BARRIER OF KRAFT PAPER & ALUMINUM COVER.
(e) FLUES - NFPA APPROVED PER LOCAL CODES.
(f) CEILING DIFFUSER - KRUEGER "S" SERIES
(g) RETURN GRILLE - KRUEGER SERIES 560H W/ SERIES FF FILTER FRAME & FILTER.
(h) PROVIDE CANVAS CONN. ON FAN DISCHARGE.
(i) DOOR LOUVRE - KRUEGER SERIES 600 A.
(j) PROVIDE 3 SPD. SW. ON F-C UNITS. SUPPLIED BY MECH. INSTALLED BY ELECT. CONTR.
(k) CONDENSATE PIPING - COPPER TYPE "L" RUN TO DRAINS.
(l) PIPE HANGERS - GRINNELL FIG. 97
(m) PROVIDE VIBR. SPRING MOUNTS AT FAN UNITS.
(n) FILTERS - DUSTOR.
(o) DUCT TURNS - KRUEGER.
(p) EXHAUST GRILLES - KRUEGER SERIES 80
(r) ALL WORK, MATERIAL & INSTALLATION TO COMPLY TO ALL CODES, ORDINANCES & REGULATIONS HAVING JURISDICTION.

NOTES: SHEET MP1D 1 & 2

1. REMOVE & DISPOSE OF INCLUDING ASSOCIATED PIPING.
2. REMOVE & DEPOSIT PER OWNERS DIRECTION INTO STORAGE YARD AT EAST FLAMINGO AND STEPHANIE AVE. UNLOAD & SECURE FOR FUTURE USE
3. NOT A PART.
4. EXISTING TO REMAIN.
5. ADDITIONAL 50 TON COOLING TOWER ON STEEL STAND ABOVE ROOF TO BE TAKEN TO STORAGE YARD WITH EQUIPMENT UNDER NOTE 11 ABOVE.
6. EXIST'G. ADDITIONAL CHW PUMP ON 2ND LEVEL SERVING AIR COOLED ROOF MOUNTED CHILLER (TO REMAIN) AND 1ST FLOOR A/C SYSTEM TO REMAIN.

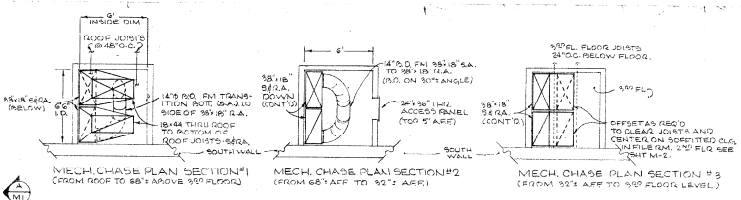
CLARK COUNTY
General Services Department • Facilities Services Division
401 South Pecos Street • Las Vegas, Nevada 89101 • (702) 455-4616

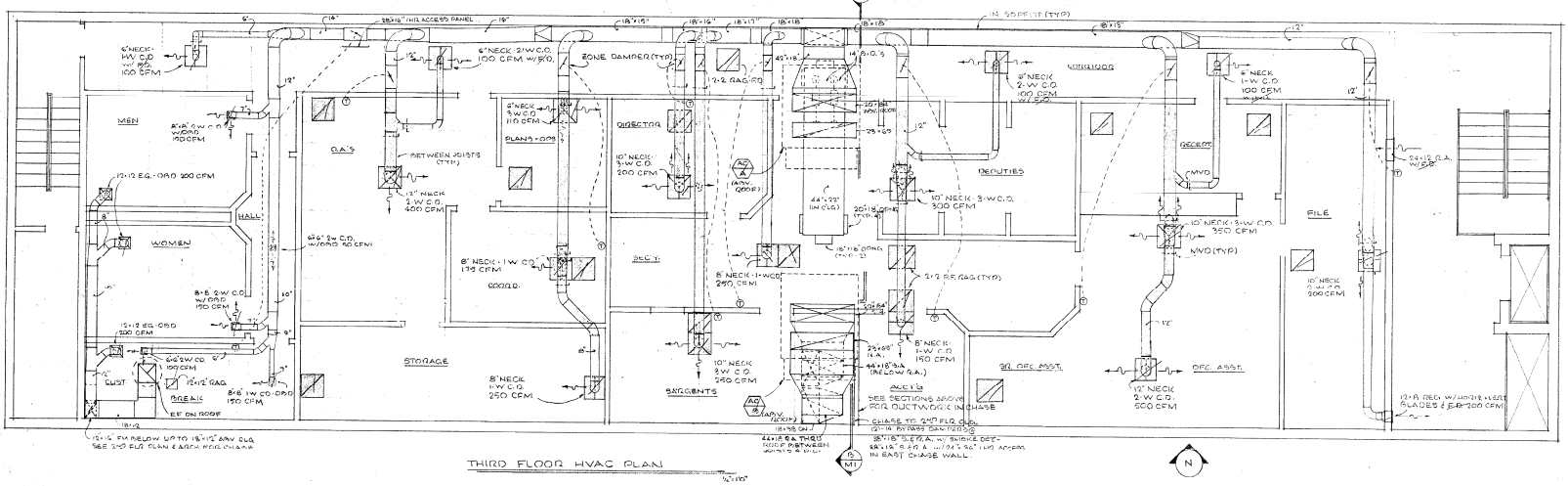
DATE:
DRAWN BY:
APPROVED BY:
PROJECT NO.

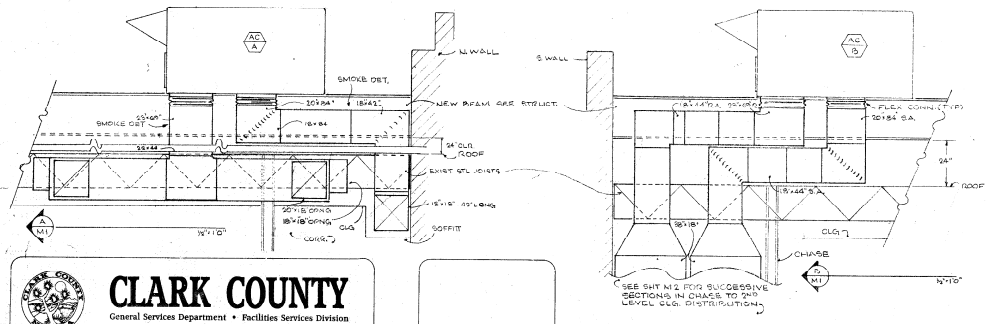
SHEET TITLE: MECHANICAL/PLUMBING DEMOLITION NOTES & DETAILS

PROJECT: CENTENNIAL BUILDING REMODEL

SHEET NO. MP1D 2
OF 2







AIRCONDITIONING NOTES:

1. SHADED DUCT COMPRISES THE SCOPE OF HVAC WORK UNDER ALTERNATE ONE.
2. USE ONLY SHEETMETAL ELBOWS AT R.A. DIFFUSERS. DO NOT FORM ELBOWS FROM FLEX DUCT - LIMIT FLEX BELLS TO 45° MAX. LIMIT FLEX DUCT TO 6 FT. SHEET METAL ELBOWS INTO C.O. OR REG. AWAY FROM IN RADIUS. IN CONFINED LOCNS. USE SQUARE CAN W/TURNING VANES & ROUND DUCT CONN. ON CAN SIDE.
3. PROVIDE MVD AT ALL BRANCH TAKE OFFS AND WHERE SHOWN.
4. LINE ALL RECTANGULAR DUCT W/ 1½" THK. (INACOUSTIC ED SOUND & INSULATION) HARDCAST ALL JOINTS.
5. ROUND DUCT: SPIRAL W/ TRANSVERSE JOINTS HARDCAST.
6. DRAWINGS ARE DIAGRAMMITIC. VERIFY CLEARANCES BEFORE ORDERING OR BEGINNING FABRICATION.
7. DUCT SIZES SHOWN ARE NET FREE AREA.
8. PROVIDE TURNING VANES @ ALL S.A. ELBOWS IN RECTANGULAR DUCT.

SEE SHEET M-2 FOR CONTINUATION

AIR CONDITIONING EQUIPMENT:

AC A — CARRIER 48QD016 4650 CFM, 800 CFM MIN. OSA W/ECONOMIZER, UNIT FURNISHED BY OWNER, FOR LOADING AND INSTALLATION BY CONTRACTOR. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR COMPLETE UNIT FACTORY RECOMMENDED CHECKOUT AND STARTUP, NEW VVT SYSTEM.

AC B — RANE AB A-A w/ SUPPLY AIR = 4455 CFM AND MIN. OSA. = 1150 CFM

EF — FURNISHED BY CONTRACTOR - NEW GREENHECK G-100A 1/4 HP 115-1-60 1620 CFM 1725 RPM. - REMOVE OLD FAN & CURB, PROVIDE COMPLETE TO INCLUDE CURB, BACKDRAFT DAMPER & INSECT SCREEN.

C.O., REG., R.A., RAG - C.O.: KRUEGER 5500 OR 5300 2'x2' PERF. FACE LAY-IN SUPPLY
- REG: KRUEGER 880HV SERIES SUPPLY AIR REGISTER
- RAG: KRUEGER 6550 TO MATCH C.O. ABOVE.
- R.A.: KRUEGER 5480 90° RETURN AIR REGISTER TO MATCH REG. ABOVE IN GYP. BD. CLGS.; C.O.: KRUEGER CURVED BLADE FOR SUPPLY WITH KRUEGER 580 H.D.V. WITH 050 FOR RETURN AND EXHAUST.

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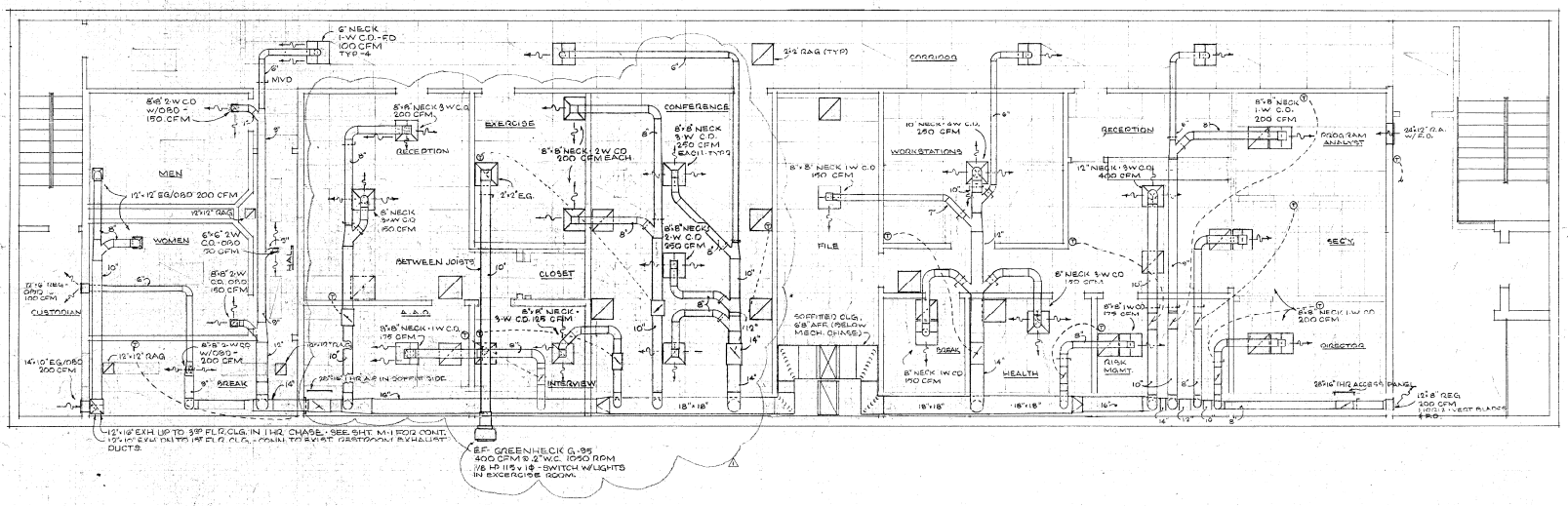
SHEET TITLE:	DATE: 8/90	PROJECT NO: 9007	SHEET NO.
THIRD FLOOR HVAC PLAN, A/C NOTES, SECTIONS & EQUIP.	DRAWN BY: PSA	APPROVED BY:	M 1
PROJECT: CENTENNIAL BUILDING REMODEL			OF 3



SECOND FLOOR AIR CONDITIONING PLAN

A" = 1'0"

AIR CONDITIONING NOTES: (CONTINUED FROM SHEET M-1)

(9) MAIN DISTRIBUTION DUCTWORK IS LOCATED IN SOFFITS UNDER EXISTG. STEEL JOISTS. MAIN BRANCH TAKE-OFFS TO AND FROM VVT ZONE DAMPER ASSEMBLIES SHALL BE LOCATED BETWEEN JOISTS. PROVIDE EXTRACTORS AT MAIN BRANCH TAKE-OFFS TO ZONE DAMPERS.

(10) EXISTING STEEL JOISTS ARE 4 FEET ON CENTER AT ROOF LEVEL AND 2 FEET ON CENTER AT THIRD FLOOR LEVEL. VERIFY. ALL BRANCH TAKE-OFFS DOWNSTREAM OF ZONE DAMPERS CROSSING UNDER JOISTS IN B'S CEILING SPACE MUST BE OFFSET TO PASS UNDER JOISTS. THOSE OFFSETS ARE NOT SHOWN OR DETAILED. DO NOT OBSCURE DUCTWORK, EQUIP. DIFFUSER. INSTALLATION OPTIONS ARE SHOWN TO DEPICT THE ACCEPTABLE APPROACH AND CONNECTION TO DISTRIBUTION DEVICES.

△ JAN 1991 - REVISED FLOOR PLAN, AIR COND. DISTR. & ADDED E.F

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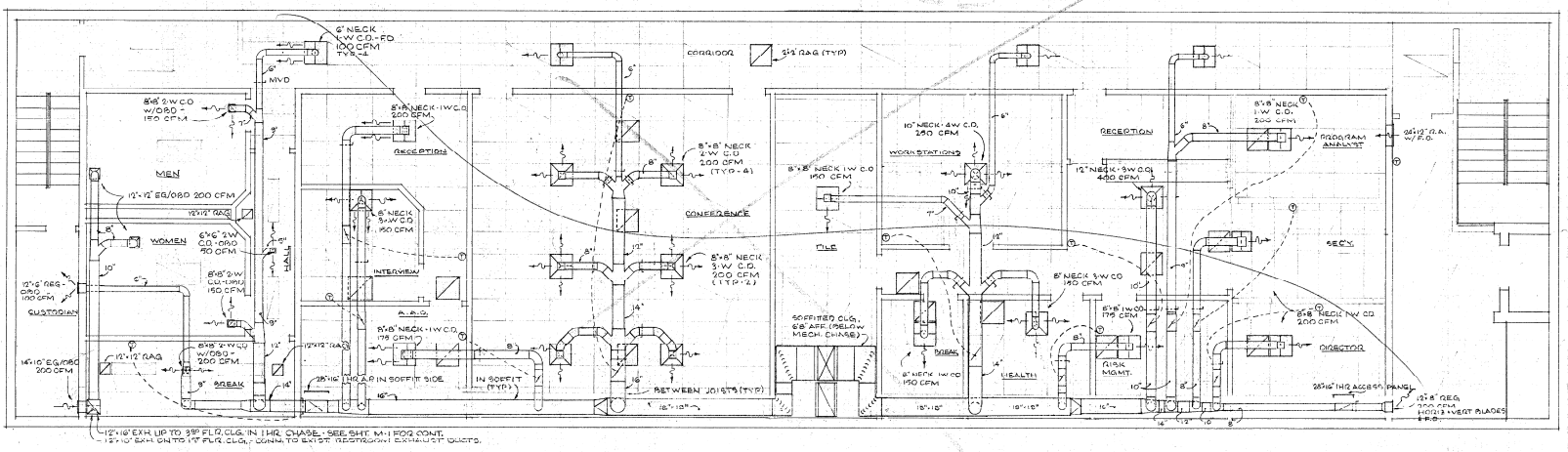
SHEET TITLE: SECOND FLOOR HVAC PLAN & AIR CONDITIONING NOTES	DATE: 2/90	PROJECT NO: 9007
	DRAWN BY: DSA	
	APPROVED BY:	
PROJECT: CENTENNIAL BUILDING REMODEL		

SHEET NO. M 2 OF 3

SEE ALSO PAGE



SECOND FLOOR AIR CONDITIONING PLAN

AIR CONDITIONING NOTES: (CONTINUED FROM SHEET M-1)

(a): MAIN DISTRIBUTION DUCTWORK IS LOCATED IN SOFFITS UNDER EXIST'G. STEEL JOISTS. MAIN BRANCH TAKE-OFFS TO AND FROM EXT ZONE DAMPER ASSEMBLIES SHALL BE LOCATED BETWEEN JOISTS. PROVIDE EXTRACTORS AT MAIN BRANCH TAKE-OFFS TO ZONE DAMPERS.

(b): EXISTING STEEL JOISTS ARE 4 FEET ON CENTER AT ROOF LEVEL AND 2 FEET ON CENTER AT THIRD FLOOR LEVEL. VERIFY. ALL BRANCH TAKE-OFFS DOWNSTREAM OF ZONE DAMPERS CROSSING UNDER JOISTS IN 8'-0" CEILING SPACE MUST BE OFFSET TO PASS UNDER JOISTS. THOSE OFFSETS ARE NOT SHOWN NOR DETAILED. DO NOT PUSH DUCTWORK. CEILING DIFFUSER INSTALLATION OPTIONS ARE SHOWN TO DEPICT THE ACCEPTABLE APPROACH AND CONNECTION TO DISTRIBUTION DEVICES.

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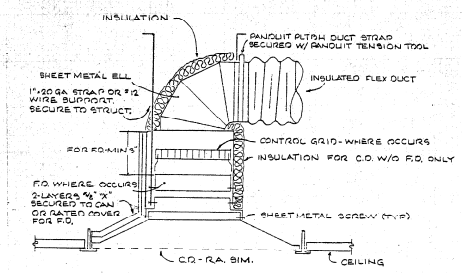
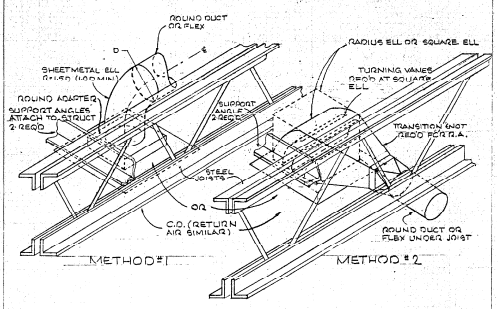
SHEET TITLE: SECOND FLOOR HVAC PLAN & AIR CONDITIONING NOTES	DATE: 8/90	PROJECT NO. 2007	SHEET NO. M 2
PROJECT: CENTENNIAL BUILDING REMODEL	DRAWN BY: DRA		OF 3
	APPROVED BY:		



METHOD No. 1 SECTIONAL ELEVATION

NO SCALE



TYPICAL C.D. INSTALLATION

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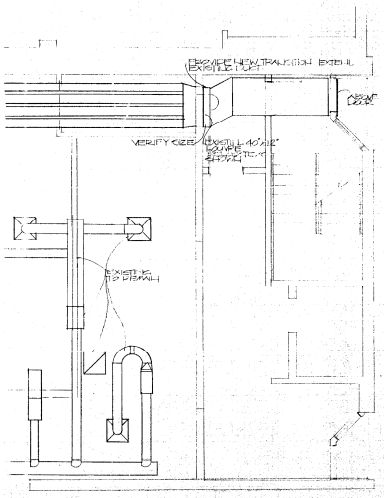

PARTIAL 1ST FLOOR HVAC PLAN

SCALE 1/4"=1'-0"

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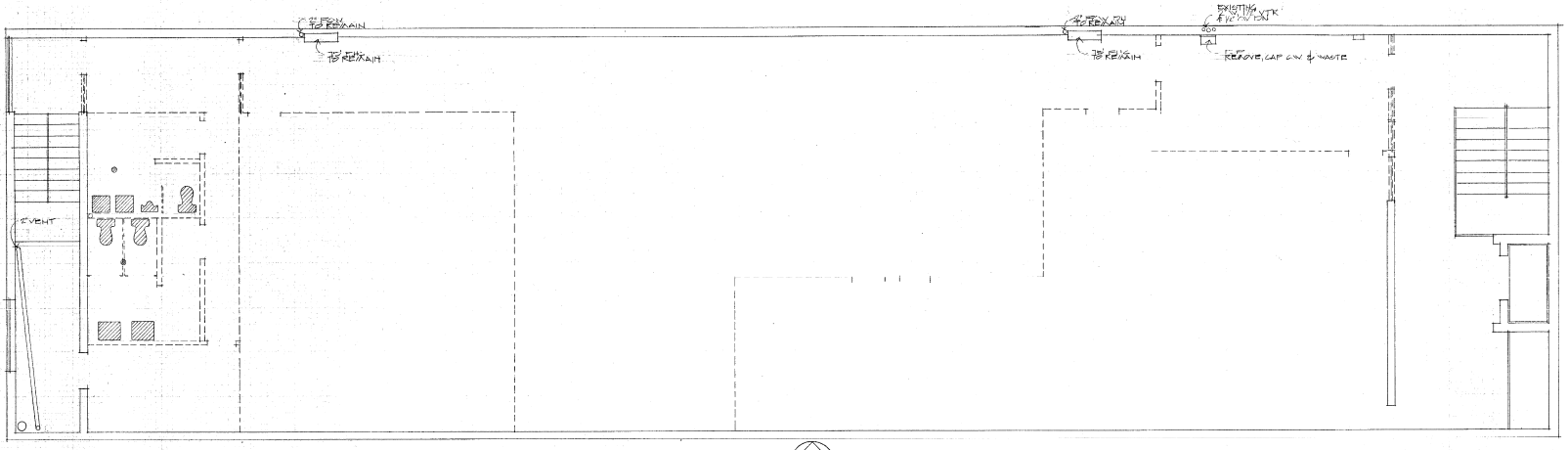
SHEET TITLE: 1ST FLOOR PARTIAL HVAC & DETAILS	DATE: / PROJECT NO.
PROJECT: CENTENNIAL BLDG. REMODEL	DRAWN BY: FSA / APPROVED BY:

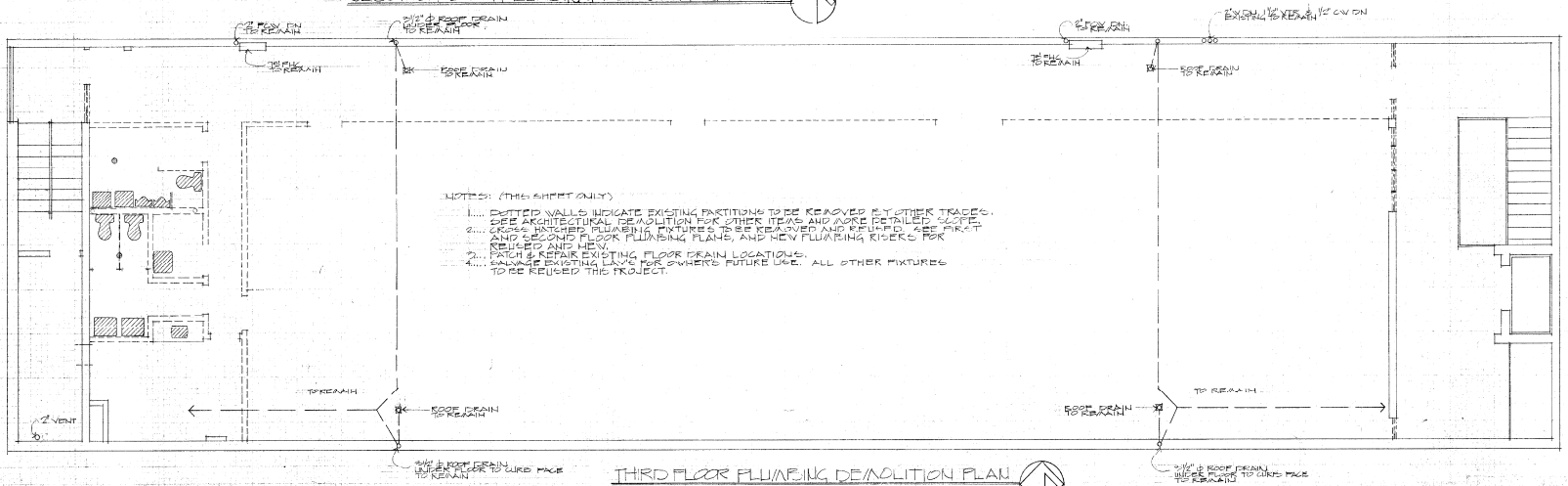
SHEET NO. M-3

OF 3

1700



SECOND FLOOR PLUMBING DEMOLITION PLAN



NOTES: (THIS SHEET ONLY)

1.... DOTTED WALLS INDICATE EXISTING PARTITIONS TO BE REMOVED BY OTHER TRADES. SEE ARCHITECTURAL DEMOLITION FOR OTHER ITEMS AND MORE DETAILED SCOPE.
2.... CROSS HATCHED PLUMBING FIXTURES TO BE REMOVED AND REUSED. SEE FIRST AND SECOND FLOOR PLUMBING PLANS, AND NEW PLUMBING RISERS FOR REUSED AND NEW.
3.... PATCH & REPAIR EXISTING FLOOR DRAIN LOCATIONS.
4.... SALVAGE EXISTING LAVS FOR OWNER'S FUTURE USE. ALL OTHER FIXTURES TO BE REUSED THIS PROJECT.

THIRD FLOOR PLUMBING DEMOLITION PLAN

SCALE 1/4" = 1'-0"

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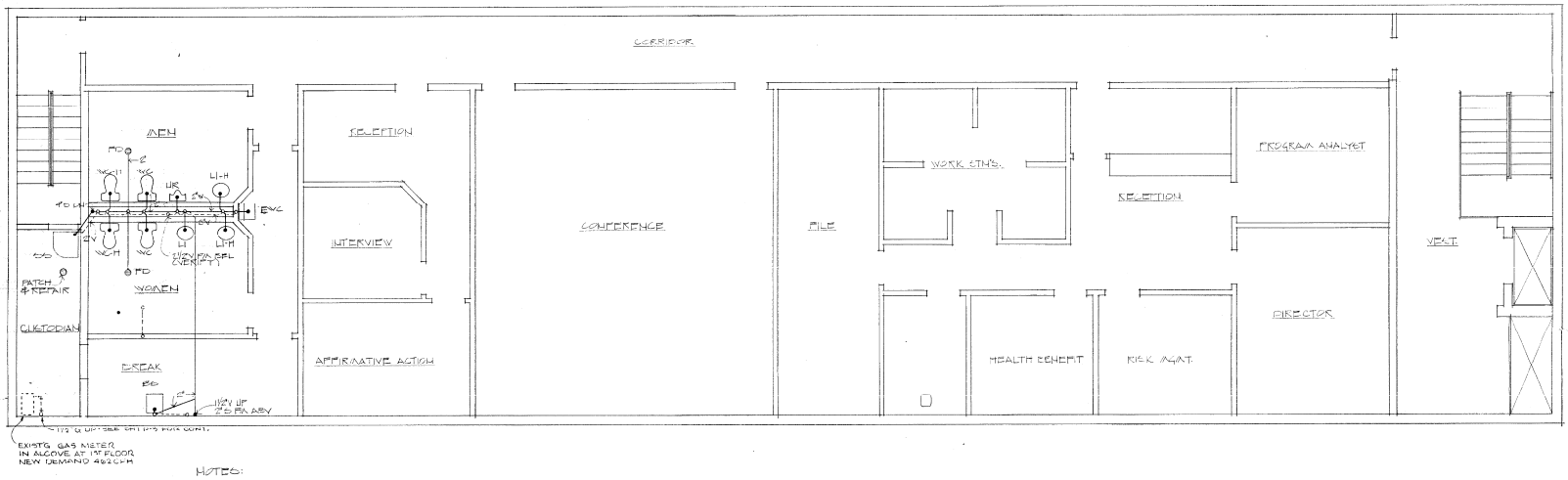
SHEET TITLE: PLUMBING DEMOLITION PLAN	DATE: 7-27-98
PROJECT: CENTENNIAL BUILDING REMODEL	PROJECT NO. 9207
	DRAWN BY:
	APPROVED BY:

SHEET NO. P-1

OF 4 100



NOTES:

EWC	ELKAY EFPB 4.8FLA 115V1Ø
WC-H	OWNER PROVIDED, INSTALLED BY PLUMBING SUBCONTRACTOR
LI	KOHLER "FARRINGTON" SELF RIMMING CAST IRON # K2900 W/K1282 SINGLE LEVER WASHERLESS FAUCET, K1006 ANGLE SUPPLIES W/B1125 & K9000 CAST P-TRAP
LI-H	SAME AS LI BUT WITH OFFSET P-TRAP FOR HANDICAP ACCESS
BS	DAYTON "PILTRY 17"×21" SS W/P2112S DUO STRAINER, CP TAILPIECE P-TRAP, CP SUPPLIES W/ANGLE STOP & ANC LNA-24175 FAUCET
SS	KOHLER "WHITBY" # K1710 W/K2940 RIMGUARD, # K8928 FAUCET & ACCESS, AND # K9146 8" STRAINER

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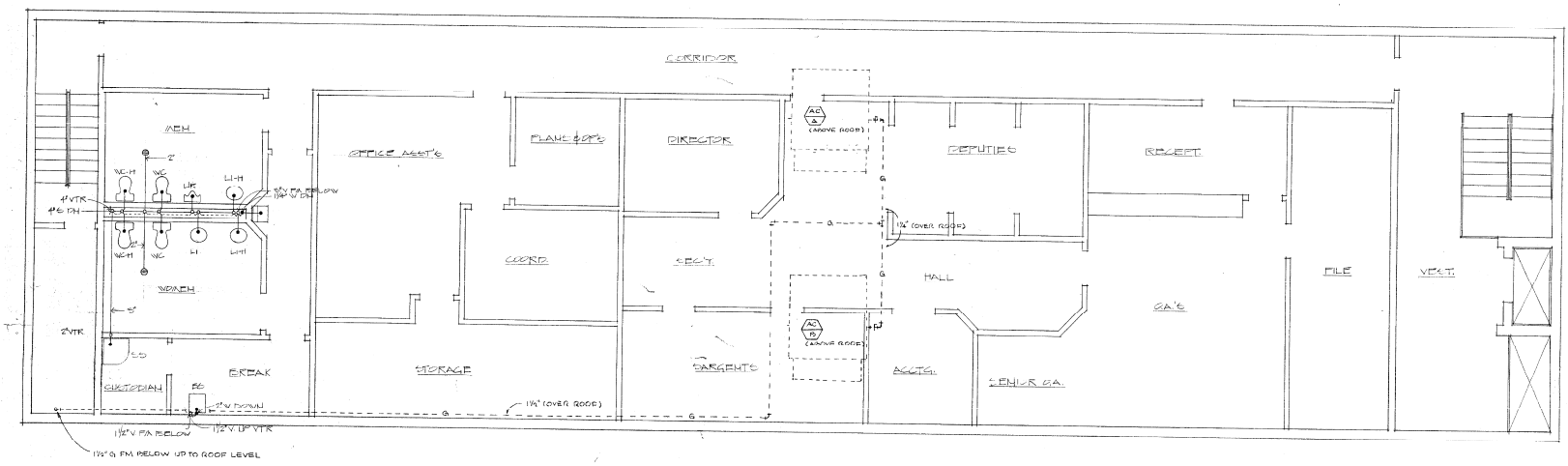
SHEET TITLE: SECOND FLOOR MODIFIED PLUMBING PLAN	DATE:	PROJECT NO. 1700-1
	DRAWN BY: SH	
PROJECT: CENTENNIAL BUILDING REMODEL	APPROVED BY:	

SHEET NO. P-2 OF 4 1700



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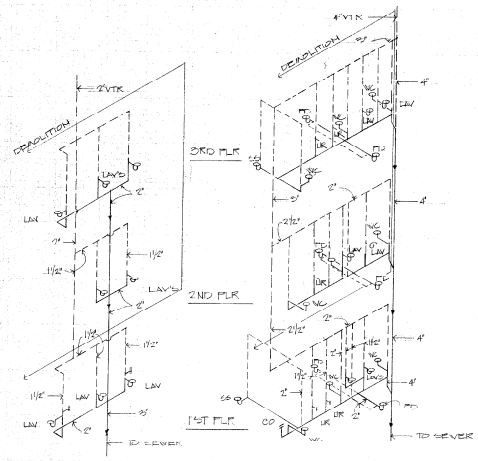
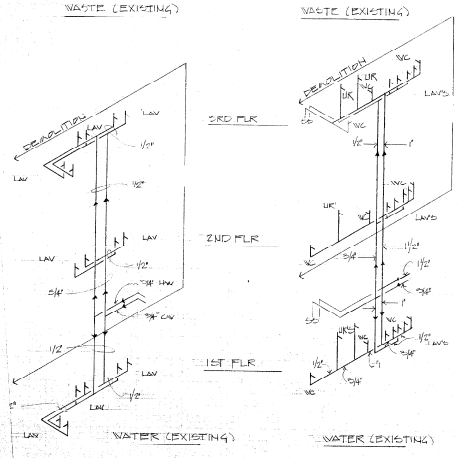
SHEET TITLE: THIRD FLOOR MODIFIED PLUMBING PLAN	DATE:	PROJECT NO. 7007
PROJECT: CENTENNIAL BUILDING REMODEL	DRAWN BY: PN	
	APPROVED BY:	

SHEET NO. P-3 OF 4 1700



WASTE (EXISTING)

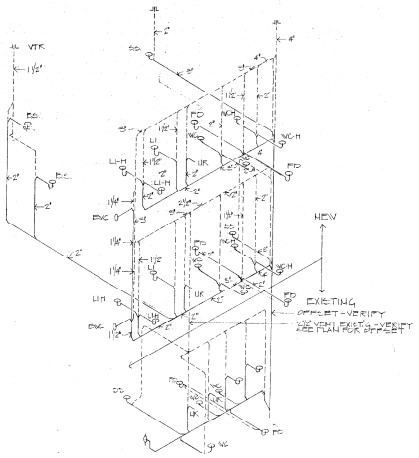


WATER (EXISTING)

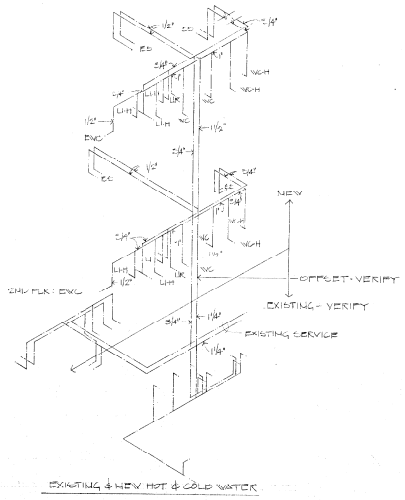
WASTE (EXISTING)

WATER (EXISTING)

EXISTING PLUMBING AT TOILETS



EXISTING & NEW WASTE & VENT



EXISTING & NEW HOT & COLD WATER

MODIFIED PLUMBING

CLARK COUNTY
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DATE:
PROJECT NO. 1-3-1
DRAWN BY: FJH
APPROVED BY:

SHEET TITLE: PLUMBING RISERS
PROJECT: CENTENNIAL BUILDING REMODEL

SHEET NO. P-4
OF 4 of 20

PART 1 - GENERAL

1.01 CONDITIONS

A. General Conditions, Supplemental Conditions, Special Conditions, and other related portions of Division 1, apply to this Section.

1.02 REGULATIONS, CODES, PERMITS AND INSPECTIONS

A. Comply with National, State, County, and City Codes, Ordinances, and having jurisdiction, including rules and requirements of utility serving agencies.

B. Obtain and pay for required permits and licenses. When required by code, work must be inspected and approved by local authorities. Prior to final approval, furnish Architect with certification of inspection and approval by local authorities.

C. In addition the latest editions of the following published standards shall be adhered to:

1. Uniform Building Code.
2. Uniform Mechanical Code.
3. NFPA Standards.
4. ASHRAE Guides.
5. SMACNA Duct Construction Standards.
6. Uniform Plumbing Code.
7. National Electric Code.

1.03 DESIGN DRAWINGS

A. Design drawings are diagramatic and are intended only to define basic functions required. Provide labor, material, etc. necessary to accomplish these requirements. Minor deviations from the design layout are anticipated and shall be considered a part of the work included; however, no changes that alter the intent of the design will be permitted. Do not scale the design drawings.

B. If a conflict occurs between the design drawings and specifications promptly notify the Architect and/or the Engineer. At that point, an interpretation will be made and said decision shall be considered a part of the Contract Documents.

1.04 SAFETY PRECAUTIONS

A. Exercise caution to protect persons and property. Furnish to each employee a place of employment free from recognized hazards that may cause injury or death.

B. Furnish and install guards, railings, fences, canopies, lights, warning signs, etc. required by law and/or necessary to protect persons and property from damage.

C. Comply with all applicable codes and laws, in particular, the Code of Federal Regulations, as administered by the Industrial Commission of Nevada.

1.05 SUBMITTALS

A. Within thirty (30) days after award of the contract, submit to the Architect six (6) copies of a brochure listing all major items of equipment, materials and fixtures to be utilized on the project. Clearly mark in ink on the submittal sheet items being submitted; mark out superfluous items. Markings shall be in a color other than red. Indicate where and for what purpose each item is used. Approval of the data submitted showing deviations from the requirements of the drawings and specifications does not constitute approval of such deviations, unless their approval is specifically requested and approved.

B. Submit to the Owner after completion of all work the following items:

1. Record drawings: contractor shall maintain accurate records of any changes from the contract drawings, and shall deliver to the Owner one (1) set of legible reproducible copies of these record drawings.

2. Guarantee: a written one (1) year guarantee of all materials and installation of the systems covered in this section of the work. Guarantee shall cover all costs, including labor and materials, for corrective work required by defects in materials and workmanship.

3. Owner's manuals: include instructions specifically prepared for the systems involved, along with parts lists, wiring diagrams, instruction manuals, warranties, etc. which were delivered with the materials and equipment utilized in this project. Identify each item by designations used on the drawings. At a time suitable to the Owner, provide qualified representatives to review the systems with the Owner's representative to thoroughly familiarize him with the operation and maintenance requirements of the systems.

PART 2 - PLUMBING

2.01 SCOPE

A. Plumbing work consists of labor, materials, and equipment necessary for the installation and placing into operation of a complete plumbing system as described herein. Install systems in perfect working order and in full accordance with the intent and meaning of the drawings and specifications. The work in general shall consist of the following:

1. Furnish and install plumbing fixtures and trim.
2. Furnish and install sanitary waste and vent piping system.
3. Furnish and install condensate drainage system.
4. Furnish and install domestic water piping system.
5. Furnish and install natural gas piping system.

2.02 GENERAL PRODUCTS

A. Furnish and install new products of established and reputable manufacturers. Items of equipment used for the same purpose shall be of the same manufacturer.

B. Systems shall be complete and operable. Any accessories required for the operation of the systems shall be included as though specifically indicated to be provided. Provide shut off valves for supply lines to each individual item of equipment.

C. Specific reference to a manufacturer's product is to establish type, quality and performance required. These qualifications are in addition to the requirements shown on the plans and elsewhere in the specifications. Acceptable substitute manufacturers, if applicable are shown in each section of the specification.

2.03 PIPING MATERIALS AND VALVES

A. Sanitary waste and vent piping no hub, galvanized. No combustible pipe will be allowed.

B. Domestic water and condensate drainage piping shall be hard drawn Type L copper tubing, ASTM B88. Fittings shall be cast brass, ANSI/ASME B16.3, or wrought copper, ANSI/ASTM B16.29. Joints shall be soldered, utilizing "all flow" or equal.

C. Natural gas piping shall be Schedule 40 black steel pipe, ASTM A53 or A120. Fittings shall be screwed malleable iron, ANSI/ASTM B16.3.

D. Water valves shall be of the same manufacturer with the manufacturer's name and pressure rating clearly marked on the outside of the valve. Valve connections shall be compatible with piping.

E. Gas cocks shall be bronze body, tapered plug, non-lubricated, teflon packing, with threaded ends.

2.04 PIPE SUPPORTS

A. Pipe supports shall be Kin-line or approved equal. Sanitary waste and vent piping shall be supported at every joint. Gas piping on the roof shall be supported by enclosed stringers with maximum spacings of eight (8) feet.

B. Hanger spacing for horizontal piping inside the buildings shall be as follows:

Pipe Size	Steel Piping	Copper Piping
3/4" & smaller	6'0"	5'0"
1" to 1-1/4"	7'0"	6'0"
1-1/2" to 2-1/2"	9'0"	8'0"
2-1/2" to 3"	11'0"	10'0"
4"	14'0"	10'0"
5" and larger	15'0"	10'0"

C. Vertical piping shall be supported with clevis clamps at each floor.

D. Insulated piping shall be supported utilizing protective saddles or shields, as specified below.

2.05 PIPING INSULATION

A. Domestic hot water piping shall be insulated with 1" thick molded fiberglass with factory jacket having self-sealing laps, Manville Micro-Lok 650 Type AP or equal. At pipe supports provide calcium silicate inserts and 16 gauge galvanized steel saddles, 12" long, or Kin-Line No. 460 shields.

2.06 CLEANOUTS

A. Exterior surfaced areas (CCO): Round nickel bronze access frame and non-skid cover.

B. Exterior non-surfaced areas (CCO): Line type with lacquered cast iron body and round epoxy coated gasketed cover.

C. Interior finished areas (FCO): Lacquered cast iron, two piece body with double drainage tiangs, weep holes, removable clamping collar, and adjustable nickel-bronze round scoriated cover in service areas, and round or square with depressed cover to accept floor finish in finished floor areas.

D. Interior finished wall areas (WCO): Line type with lacquered cast iron body and round epoxy coated gasketed cover, and round stainless steel access cover secured to the wall with machine screw.

E. Interior unfinished inaccessible areas (WCO): Caulked or threaded type.

F. Acceptable manufacturers: Zurn, Wade or Josam.

2.07 PLUMBING FIXTURES

A. Shall be as scheduled on the drawings. Provide all required trim, carriers, etc. required for proper operation and installation.

B. Acceptable manufacturers are American Standard, Kohler, or Eljer.

2.08 GENERAL INSTALLATION

A. Install all fixtures and equipment in accordance with manufacturers instructions.

B. Perform work in accordance with the best trade practices. Install materials and equipment squarely with the building lines. Provide rigid permanent bases and supports for work. Construct and brace equipment, piping, etc., so that there will be no vibration or rattling when systems are in operation.

C. Cover and protect equipment, and materials from weather, theft, damage, etc. until date of completion. Plug or cap open ends of installed piping.

D. Conceal piping in walls, furred spaces, pipe chases, or above suspended ceilings as shown on the drawings. Group piping wherever practical and install uniformly in straight parallel lines, squared with building lines.

E. Support horizontal piping with pipe hangers. Do not use perforated metal tape. Arrange piping so that thermal expansion does not cause stress. Install and secure piping such that hot and cold lines and lines of dissimilar metals are not in contact.

F. Verify equipment dimensions and requirements for rough in work. Bending and offsetting of finished piping connections, and "cooking" of fittings or trim will not be acceptable. Do not support any piping weight from equipment.

G. Install underground sanitary waste piping at a uniform 1/4" per foot slope. Make joints close and square. Use fittings for turns and offsets. Uniformly grade and compact trenches prior to installing pipe. Provide continuous support for piping.

H. Vents through roof shall be sealed with a seamless lead flashing system of 4 pound lead.

I. Run condensate drainage piping from a/c units to nearest roof drains.

J. Exposed piping connections to plumbing fixtures shall be chrome plated.

K. Cutting and patching of the building structure shall be approved by the Architect prior to performing the work.

2.10 TESTING REQUIREMENTS

A. Test all systems in accordance with applicable codes, regulation, ordinances, etc. as follows:

1. Sanitary waste and vent and roof drainage: Fill to highest point with water; no noticeable drop in level for two (2) hours.

2. Domestic water: hydrostatically at 150 psi; no noticeable drop in pressure for one (1) hour.

3. Natural Gas: Compressed air at 60 psi; no noticeable drop in pressure for one (1) hour.

B. If any test shows the work to be defective in any way or at variance with the specification requirements, make any necessary changes and remedy defects. Retest until successful.

C. Test piping systems after installation, and prior to being put into use, covered or concealed by insulation, backfilling or building construction.

2.11 DISINFECTION OF DOMESTIC WATER PIPING SYSTEM

A. Disinfect water piping systems in strict conformance with the requirements of the State of Nevada "Water Supply Regulations", Section 3.

3.01 SCOPE

A. HVAC work consists of labor, materials and equipment necessary for the installation and placing into operation of a complete HVAC system as described herein. Install systems in perfect working order and in full accordance with the intent and meaning of the drawings and specifications. The work in general shall consist of the following:

1. Furnish and install roof mounted air conditioning units.
2. Furnish and install roof mounted exhaust fans.
3. Furnish and install complete air distribution systems including ductwork, grilles, diffusers, registers, balancing dampers, fire dampers, turning vanes, air extractors, etc.
4. Furnish and install thermal duct insulation and liner.
5. Furnish and install temperature control system.

3.02 GENERAL

A. Furnish and install new products of established and reputable manufacturers. Items of equipment used for the same purpose shall be of the same manufacturer.

B. Systems shall be complete and operable. Any accessories required for the operation of the systems shall be included as though specifically indicated to be provided. Motor starters for provided equipment and other protection and control devices are included in this specification, and shall meet all requirements of the latest edition of the NEC, and also meet the requirements of the electrical portions of this specification. (See electrical drawings).

C. Specific reference to a manufacturer's product is to establish type, quality and performance required. These qualifications are in addition to the requirements shown on the plans and elsewhere in the specifications. Acceptable substitute manufacturers, if applicable, are shown in each section of the specification.

3.03 PACKAGED GAS/ELECTRIC AIR CONDITIONING UNITS

A. Install Owner furnished combination packaged heating and cooling units with capacities, sizes, and locations shown on the drawings.

B. Manufacture of Owner furnished equipment is Carrier.

3.04 ROOF MOUNTED EXHAUST FANS

A. Furnish and install roof mounted exhaust fans of the sizes, types capacities, and locations shown on the drawing.

B. Fans shall be belt driven, complete with casings, fans, motors, backdraft dampers, insect screens and roof curbs.

C. Acceptable manufacturers for this equipment are Greenheck, Broan, Acme and Penn.

3.05 DUCTWORK

A. Provide a complete system of ductwork fabricated and installed in strict accordance with SMACNA Low Velocity Duct Construction Standards. Duct systems shall be constructed as shown on the drawings; changes in arrangement and size shall be made only to clear unanticipated structural obstructions.

B. Ductwork shall be constructed of galvanized sheet metal; sizes shown are net inside dimensions. Ductwork with liner shall be increased accordingly.

C. Flexible ductwork shall be a factory fabricated assembly consisting of an inner sleeve, 1" thick fiberglass insulation, and outer barrier. Wiremold type "WCX", Thermaflex M-KA or approved equal. Flexible ductwork shall be used only to connect rigid ductwork to air terminals and shall not exceed 8'0" in length.

D. Flexible collars shall be provided in all connections between air conditioning units and supply and return ductwork. Collars shall be neoprene coated glass fabric weighing approximately 30 ounces per square yard, as manufactured by Ventfab. Collars shall be approximately 6" long and shall be installed with just enough slack to prevent transmission of vibration.

E. Provide manual balancing dampers in each runout to each diffuser, and as shown on the drawings, and as required to properly balance the system. Dampers shall be constructed of 16 gauge galvanized steel, be of the opposed blade type (single blade for round ducts), and shall be furnished with locking and indicating quadrants.

3.06 THERMAL INSULATION

A. Concealed supply and return air ductwork above the ceiling and in furred spaces shall be provided with thermal insulation.

B. Thermal insulation shall be flexible blanket fiberglass insulation with factory applied flame retardant foil-reinforced vapor barrier (FSK) maximum k of 0.30 at 75 F mean temperature.

C. Insulation shall be applied over surfaces which have been wiped clean and dry and shall have a 2" minimum tape overlap on both the longitudinal and transverse seams. Edges of insulation shall be firmly butted together.

3.07 DIFFUSERS, REGISTERS AND GRILLES

A. Furnish and install diffusers, registers, and grilles as shown on the drawings. Diffusers and registers shall be provided with frames suitable for ceiling used.

B. Acceptable manufacturers of air terminals are Titus, Krueger, Metalaire, and Anemostat.

3.08 GENERAL INSTALLATION

A. Install all materials and equipment in accordance with the manufacture's instructions.

B. Perform all work in accordance with the best trade practices. Install materials and equipment squarely with the building lines. Provide rigid permanent bases and supports for the work. Construct and brace equipment, ductwork, etc. so that there will be no vibration or rattling when systems are in operation.

C. Cover and protect equipment and materials from weather, theft, damage, etc. until date of completion. Cap open ends of ductwork pending extension or final connection.

D. Install ductwork in accordance with SMACNA requirements.

E. Seal all ductwork air tight. Aerosol all joints, or seal with silicone caulking compound. Duct tape will not be allowed.

F. Elbows shall have a throat radius equal to duct width. Square elbows will be provided with turning vanes. Transitions shall not exceed 4:1 ratio, unless specifically detailed on the drawings.

3.09 AUTOMATIC TEMPERATURE CONTROLS

A. This contractor shall provide a complete system of automatic temperature controls, which shall include, but not be limited to, 24V thermostats, transformers, and required relays, tons/bypass dampers, sensors, monitor stat, etc.

B. This contractor shall provide all electrical wiring for control systems. Wiring shall be in accordance with the requirements of the NEC, and electrical section of this specification. Electrical contractor will provide all required conduit.

C. Each system providing heating or cooling shall be provided with an automatic shutoff. Automatic shutoffs shall shut down the air moving equipment when smoke is detected in the duct systems. Smoke detection shall be by a smoke detector installed in accordance with the UMC Section 1029. Activation of the smoke detector shall cause shutdown of the air moving equipment.

CLARK COUNTY
General Services Department • Facilities Services Division
401 South Fourth Street • Las Vegas, Nevada 89101 • (702) 455-4616

SHEET TITLE: MECHANICAL/PLUMBING SPECIFICATIONS	DATE:	PROJECT NO. 9507
PROJECT: CENTENNIAL BUILDING REMODEL	DRAWN BY: MGA	
	APPROVED BY:	

SHEET NO. MPS-1
OF 1/200