

State of Vermont
Department of Buildings and General Services
BENNINGTON A.O.T. DISTRICT OFFICE
RENOVATIONS
Bennington, Vermont

AGENCY OF ADMINISTRATION
DEPT. OF BUILDINGS & GENERAL SERVICES
2 GOVERNOR AIKEN AVENUE
MONTPELIER, VERMONT 05633-5801
THOMAS W. TORTI, COMMISSIONER

AGENCY OF TRANSPORTATION
1 NATIONAL LIFE DRIVE
DRAWER 33
MONTPELIER, VT 05633
PATRICIA A. McDONALD, SECRETARY

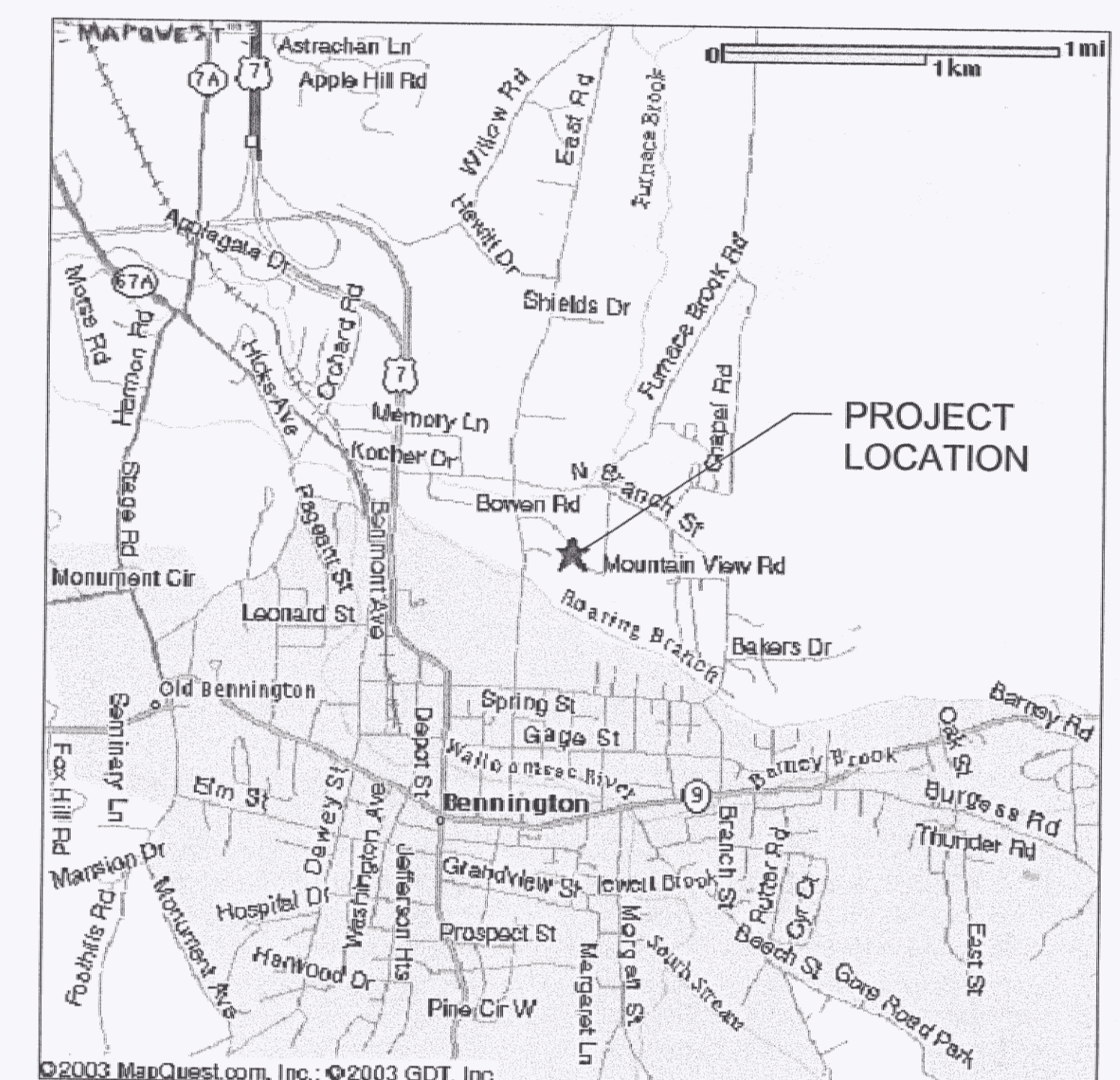


James H. Douglas
Governor

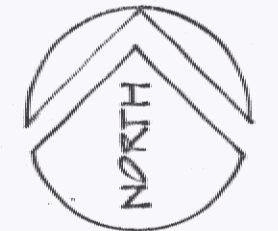
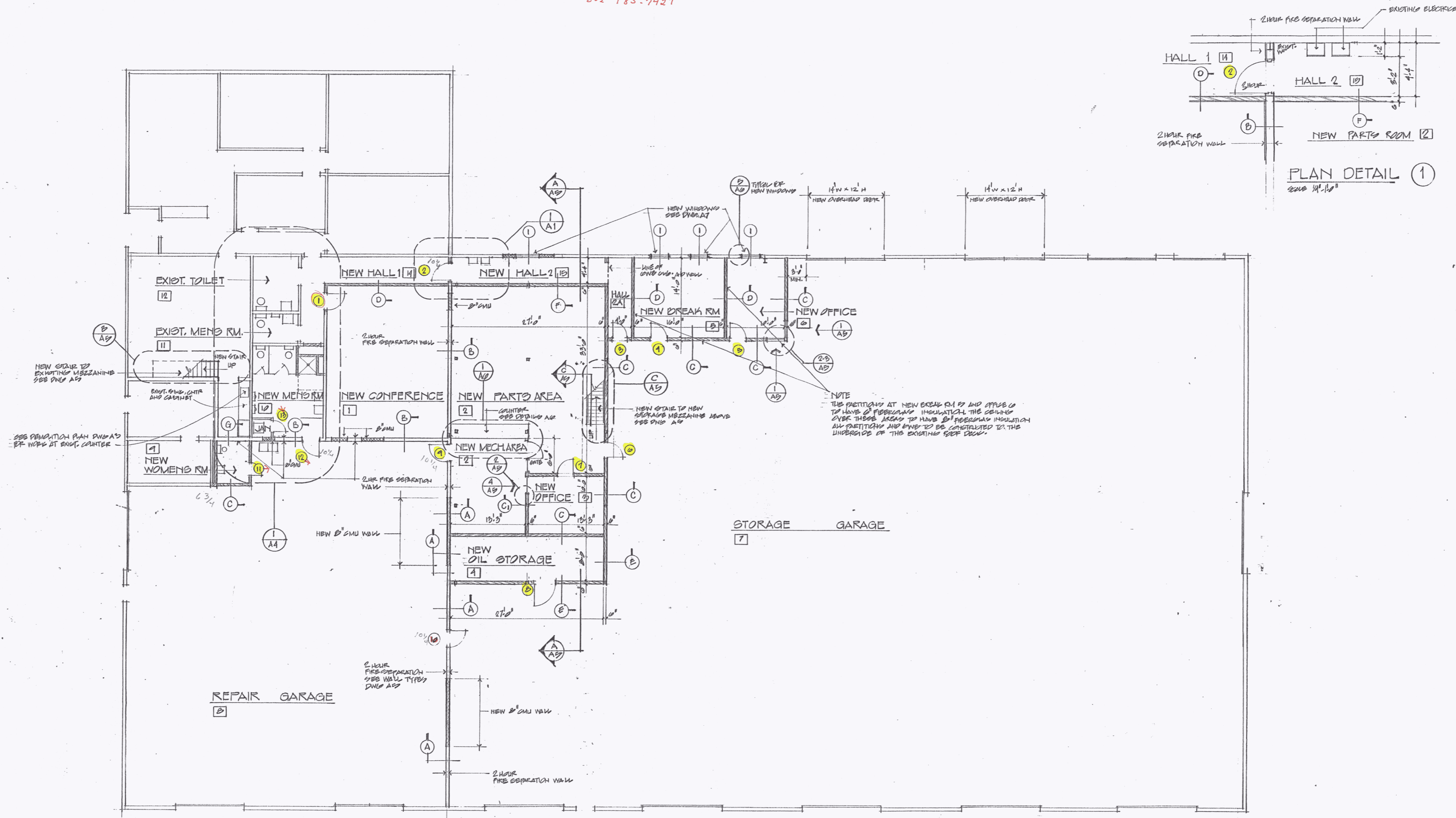
MARCH, 2004

INDEX OF SHEETS

001	A-1 FIRST FLOOR PLAN
002	A-2 MEZZANINE FLOOR PLAN
003	A-3 DEMOLITION PLAN - FIRST FLOOR
004	A-4 FINISH SCHEDULE & DETAILS
005	A-5 SECTION A - DETAILS
006	A-6 DOOR SCHEDULE & ELEVATIONS, DETAILS
007	A-7 EXTERIOR ELEVATIONS
008	S-1 FRAMING PLAN
009	S-2 STRUCTURAL SECTIONS & DETAILS
010	M-1 FIRST FLOOR, MECHANICAL DEMOLITION
011	M-2 MEZZANINE FLOOR, MECHANICAL DEMOLITION
012	M-3 MAIN FLOOR, NEW HEATING-BASE BID
013	M-4 MEZZANINE FLOOR, NEW HEATING-BASE BID
014	M-5 MAIN FLOOR, NEW VENTILATION-BASE BID
015	M-6 MEZZANINE FLOOR, NEW VENTILATION-BASE BID
016	M-7 MEZZANINE FLOOR, NEW HEATING-ADD ALTERNATE NO. 1 WORK
017	M-8 MAIN FLOOR, NEW VENTILATION - ADD ALTERNATE NO. 2
018	M-9 MEZZANINE FLOOR, NEW VENTILATION - ADD ALTERNATE NO. 2
019	M-10 MECHANICAL SCHEDULES & DETAILS
020	M-11 MECHANICAL DETAILS
021	P-1 FIRST FLOOR, PLUMBING DEMOLITION
022	P-2 PARTIAL MAIN FLOOR, NEW PLUMBING
023	FP1 PARTIAL MAIN FLOOR, FIRE PROTECTION
024	FP2 MEZZANINE FLOOR, FIRE PROTECTION
025	FP3 FIRE PROTECTION LEGEND & DETAILS
026	E-1 ELECTRICAL DEMO PLAN
027	E-2 POWER & FIRE ALARM PLAN
028	E-3 LIGHTING PLAN
029	E-4 MEZZANINE PLAN
030	E-5 ALT #1 & ALT 2 ITEMS
031	E-6 DETAILS & SCHEDULES



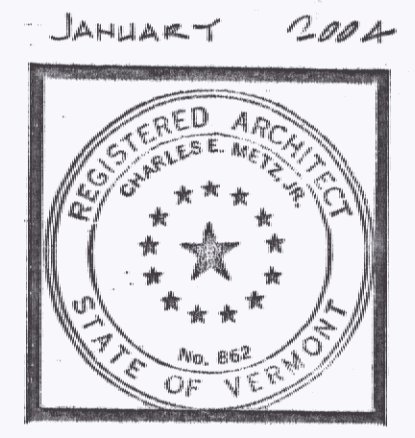
PROJECT LOCATION MAP



FIRST FLOOR PLAN

Scale 1/4" = 1'-0"

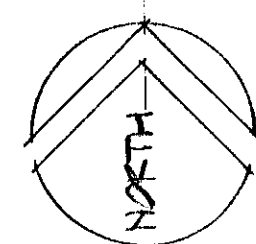
- INDICATES WALL TYPE
- NEW WALLS - MOD. STUD
 - EXISTING WALL
 - NEW WALLS - CON. UNIDENT. WHITE



PROJECT:
RENOVATIONS BENNINGTON AOT
DISTRICT OFFICE 1 BENNINGTON VT.
TITLE:
FIRST FLOOR PLAN

CHARLES E. METZ
ARCHITECT
THE GRIST MILL
BRADFORD VT 05033

DRAWING:
A1



SCALE 1/2" = 1'-0"

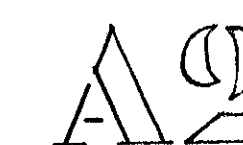
JANUARY 2004

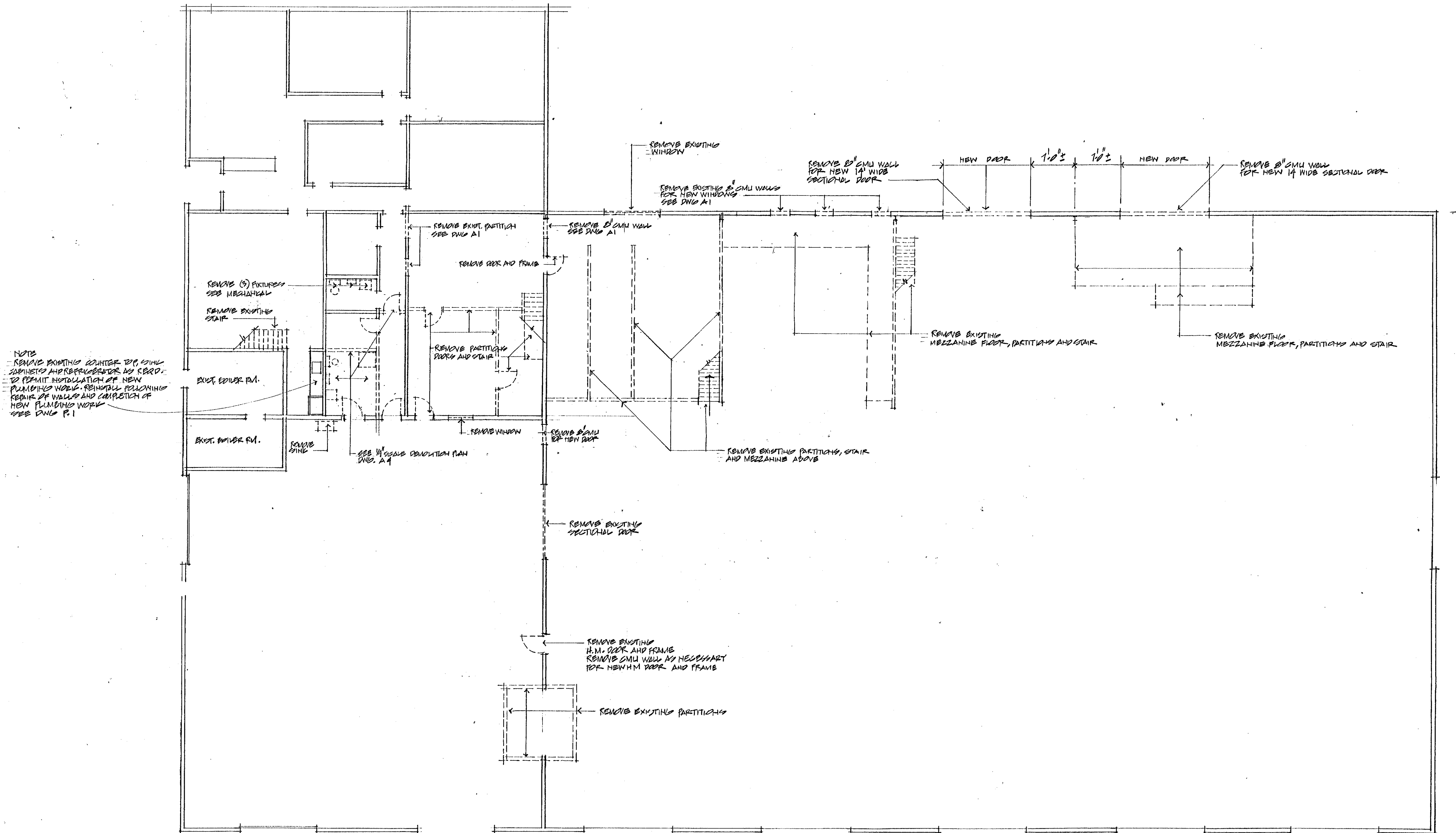


PROJECT:
RENOVATIONS BENNINGTON AOT
DISTRICT OFFICE 1, BENNINGTON VT
TITLE:
MEZZANINE FLOOR PLAN

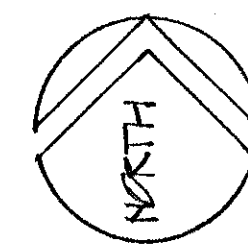
**CHARLES E. METZ
ARCHITECT
THE GRIST MILL
BRADFORD VT 05033**

DRAWING:





NOTE
 REMOVE EXISTING COUNTER TOP, SINK
 SCHEDULED AND REFRIGERATOR AS SHOWN
 TO PERMIT INSTALLATION OF NEW
 PLUMBING WORK. REINSTALL FOLLOWING
 REMOVAL OF WALLS AND COMPLETION OF
 NEW PLUMBING WORK
 SEE DWG. P.1

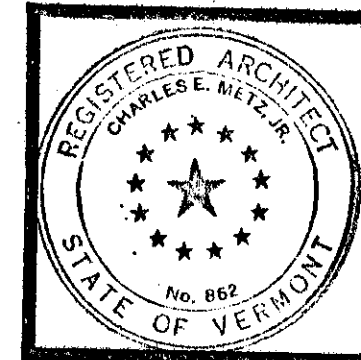


DEMOLITION PLAN

SCALE 1/8" = 1'-0"

--- EXISTING WORK TO BE REMOVED
 === EXISTING WORK TO REMAIN

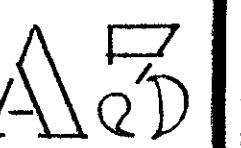
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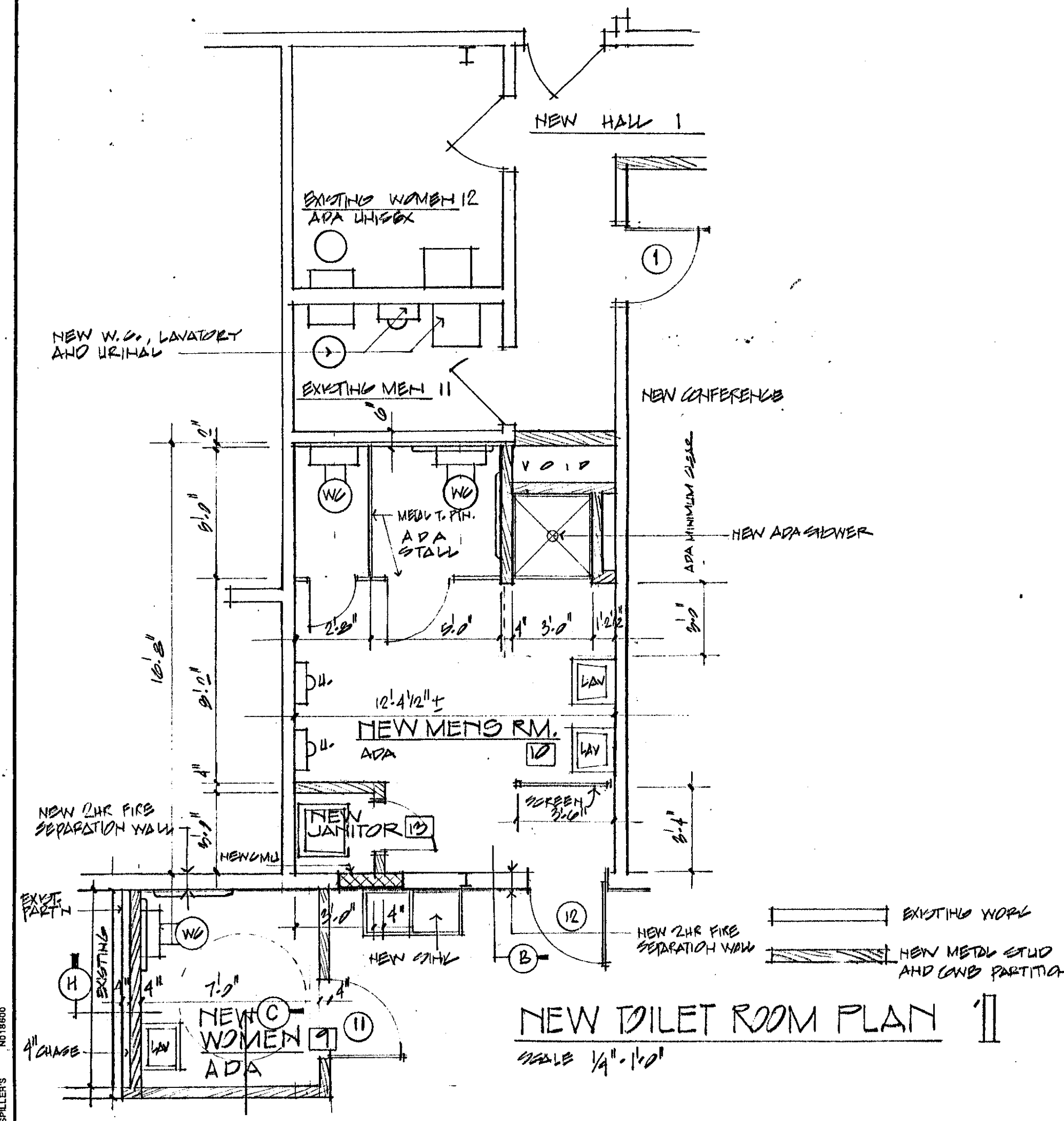
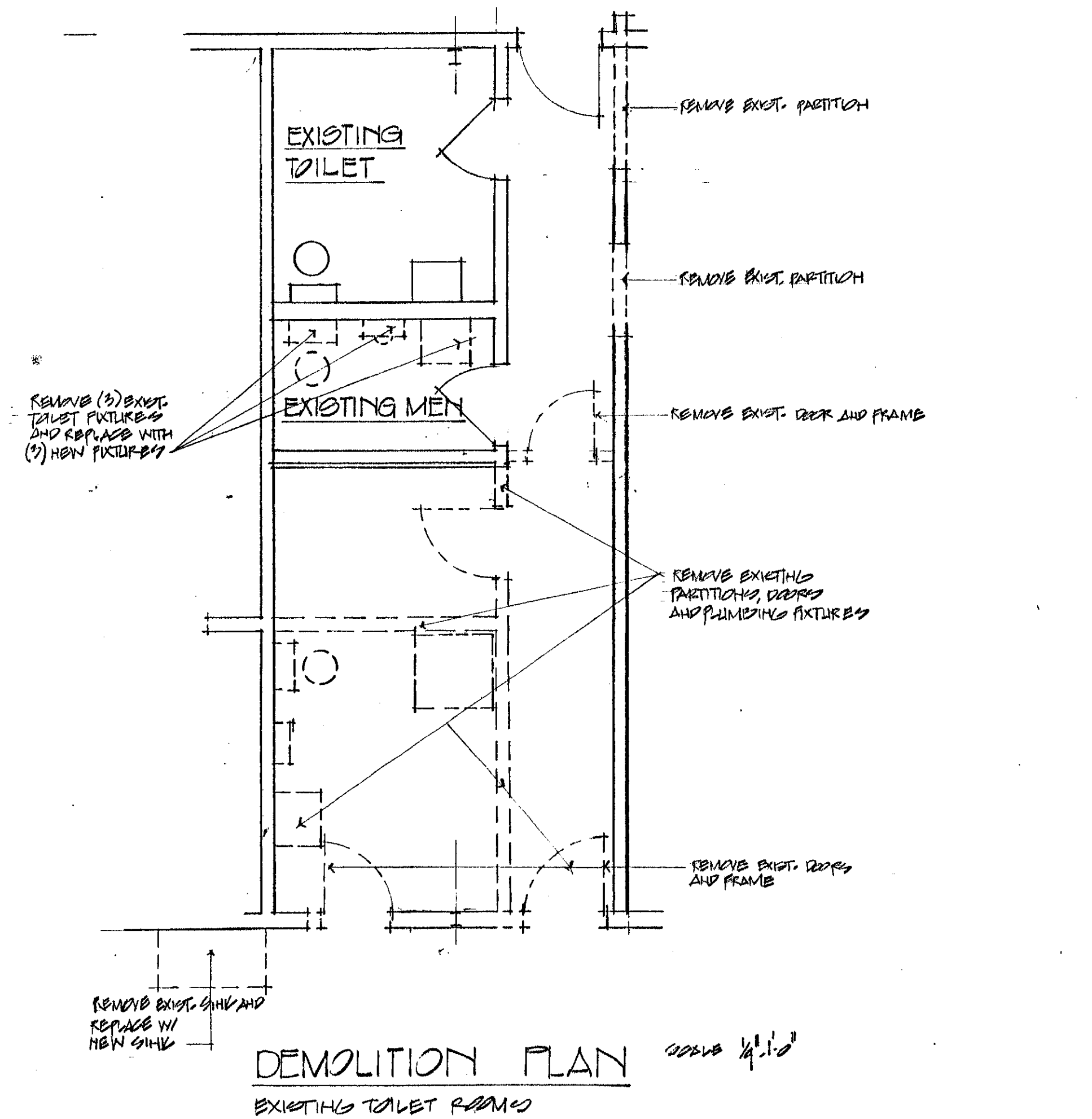


PROJECT:
 RENOVATIONS - BENNINGTON AOT
 DISTRICT OFFICE 1, BENNINGTON VT
 TITLE:
 DEMOLITION PLAN
 FIRST FLOOR

CHARLES E. METZ
 ARCHITECT
 THE GRIST MILL
 BRADFORD VT 05033

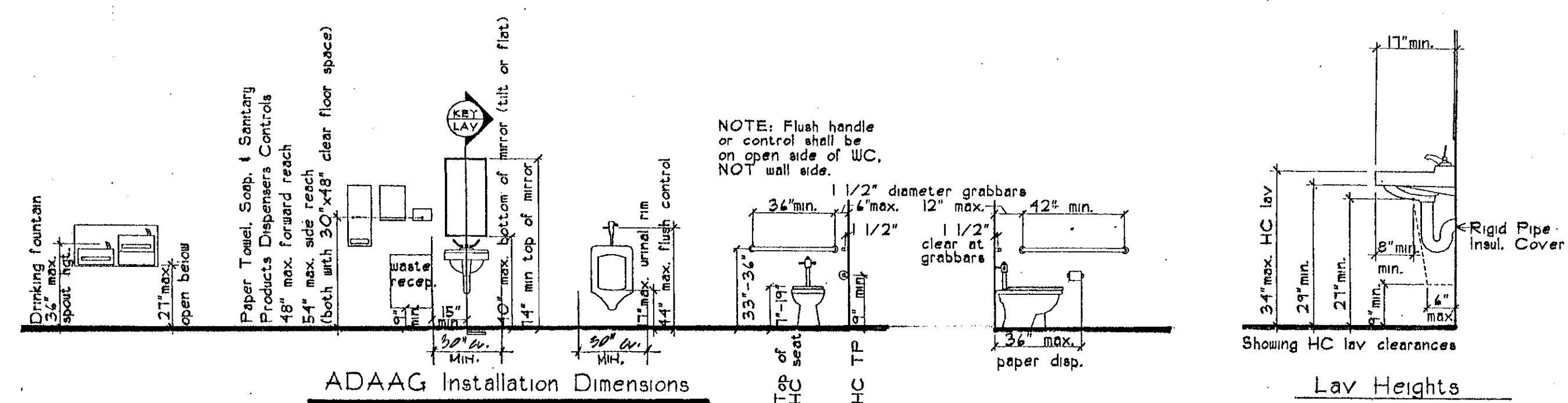
DRAWING:





NO	ROOM	FLOOR	BASE	WALLS				CEILING	NOTATION
				NORTH	SOUTH	EAST	WEST		
1	NEW CONFERENCE RM	V.G.T.	4" VINYL	GNB	GNB	GNB	GNB	SUSP. ACQU. PANES	CEILING HEIGHT AT 10'-0" SEE DWS AT LOCATION OF NEW 2HR FIRE SEPARATION WALL
2	NEW PARTS AND MECHANICALS AREA	EXIST. 2ND FL.	4" VINYL EXIST. CMU	GNB	GNB	GNB	GNB	GNB	CEILING HEIGHT AT 7'-0" / 4" PLYND. VAINSET SEE DWS AT LOCATION OF NEW 2HR FIRE SEPARATION WALL
3	NEW OFFICE	EXIST. 2ND FL.	4" VINYL	GNB	GNB	GNB	GNB	GNB	CEILING HEIGHT AT 7'-0"
4	NEW OIL STORAGE	EXIST. 2ND FL.	EXIST. CURB	GNB	GNB	GNB	GNB	GNB	CEILING HEIGHT AT 7'-0" / 4" PLYND. VAINSET SEE DWS AT LOCATION OF NEW 2HR FIRE SEPARATION WALL
5	NEW BREAK ROOM	V.G.T.	4" VINYL	EXIST. CMU	GNB	GNB	GNB	SUSP. ACQU. PANES	CEILING HEIGHT AT 8'-0" / PAINT EXIST. CMU
6	NEW OFFICE	V.G.T.	4" VINYL	EXIST. CMU	GNB	GNB	GNB	SUSP. ACQU. PANES	CEILING HEIGHT AT 8'-0" / PAINT EXIST. CMU
7	STORAGE GARAGE	EXIST.	EXIST.	EXIST. CMU NEW GNB	EXISTING	EXISTING	EXIST. CMU NEW GNB	EXISTING	SEE DWS AT LOCATION OF NEW 2HR WALL AND NEW GNB 4" PLYND VAINSET AT NEW GNB
8	REPAIR GARAGE	EXIST.	EXIST.	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	SEE DWS AT LOCATION OF NEW 2HR WALL 4" PLYND VAINSET AT NEW GNB
9	NEW WOMEN'S ROOM	V.G.T.	4" VINYL	GNB	GNB	GNB	GNB	SUSP. ACQU. PANES	SEE DWS AT LOCATION OF NEW 2HR WALL AND NEW GNB CEILING AT 8'-0"
10	NEW MEN'S ROOM	V.G.T.	4" VINYL	GNB	GNB	GNB	GNB	SUSP. ACQU. PANES	SEE DWS AT LOCATION OF NEW 2HR WALL CEILING HEIGHT AT 8'-0"
11	EXISTING MEN'S RM.	V.G.T.	4" VINYL	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	PAINT ALL EXIST. GNB
12	EXISTING TOILET	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	PAINT ALL EXIST. GNB
13	NEW JANITOR	V.G.T.	4" VINYL	GNB	GNB	GNB	EXISTING	SUSP. ACQU. PANES	SEE DWS AT LOCATION OF NEW 2HR FIRE SEPARATION WALL CEILING HEIGHT AT 8'-0"
14	NEW HALL 1	V.G.T.	4" VINYL	EXISTING	GNB	GNB	GNB	GNB	HEIGHT OF CEILING TO MATCH EXIST. HALL RICH AND PAINT EXIST. CMU ON NORTH WALL
15	NEW HALL 2 & 2A	V.G.T.	4" VINYL	EXISTING	GNB	GNB	GNB	EXIST. HALL 2 GNB AT HALL 2A	RICH AND PAINT EXIST. CMU ON NORTH WALL X HALL 2A TO HAVE GNB CEILING
16	EXISTING MEZZANINE	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	
17	NEW MEZZANINE	EXISTING	EXISTING	WIRE MESH PARTITION	WIRE MESH PARTITION	WIRE MESH PARTITION	WIRE MESH PARTITION	EXISTING	

NOTES:
ALL NEW METAL STUD WALLS TO BE CONSTRUCTED UNDERGRADE OF EXISTING ROOF DECK (INCLUDING GNB)
SEE DRAWING A-0 FOR SPECIFIC WALL TYPES KEYED TO 1/8" SCALE FLOOR PLAN



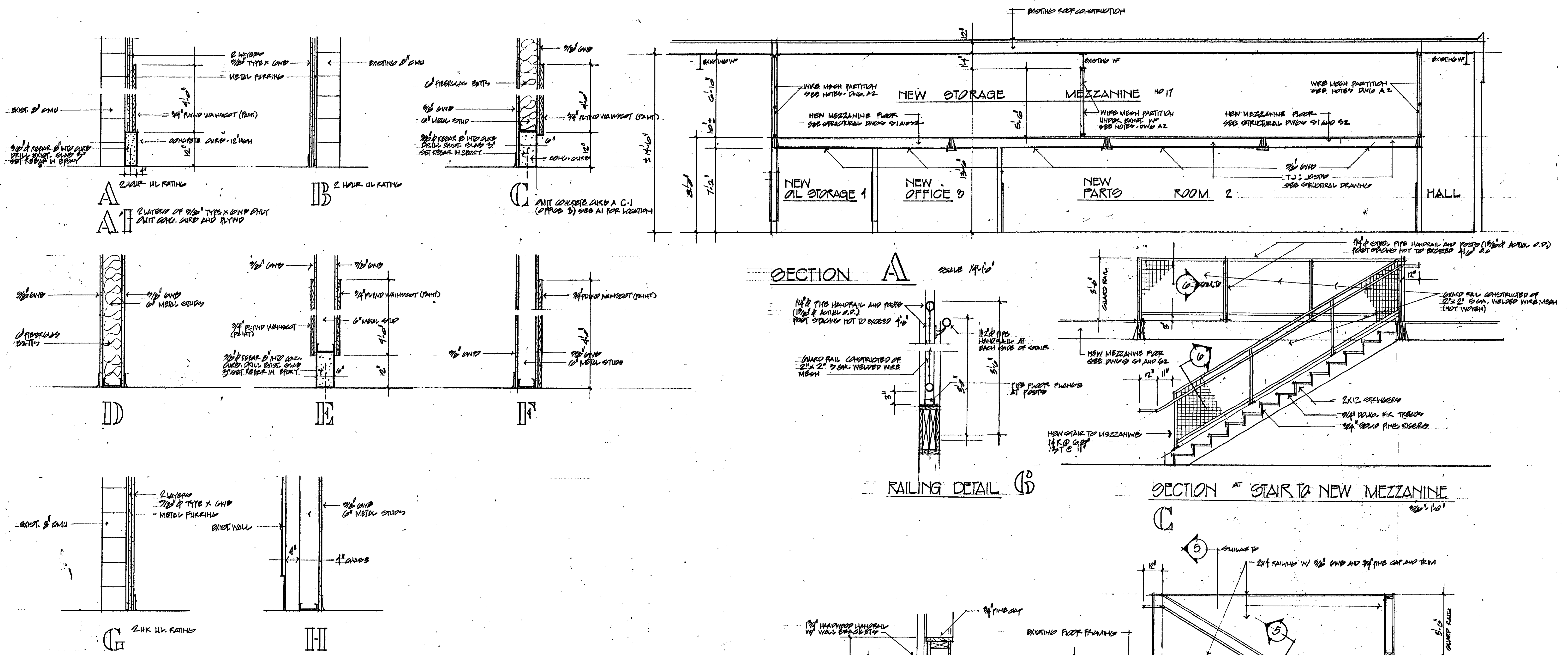
JANUARY 2004

PROJECT:
RENOVATIONS - BENNINGTON APT DISTRICT OFFICE 1 - BENNINGTON VT.

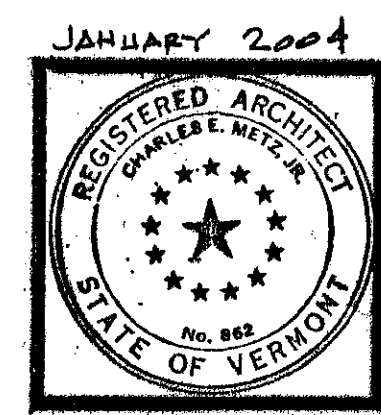
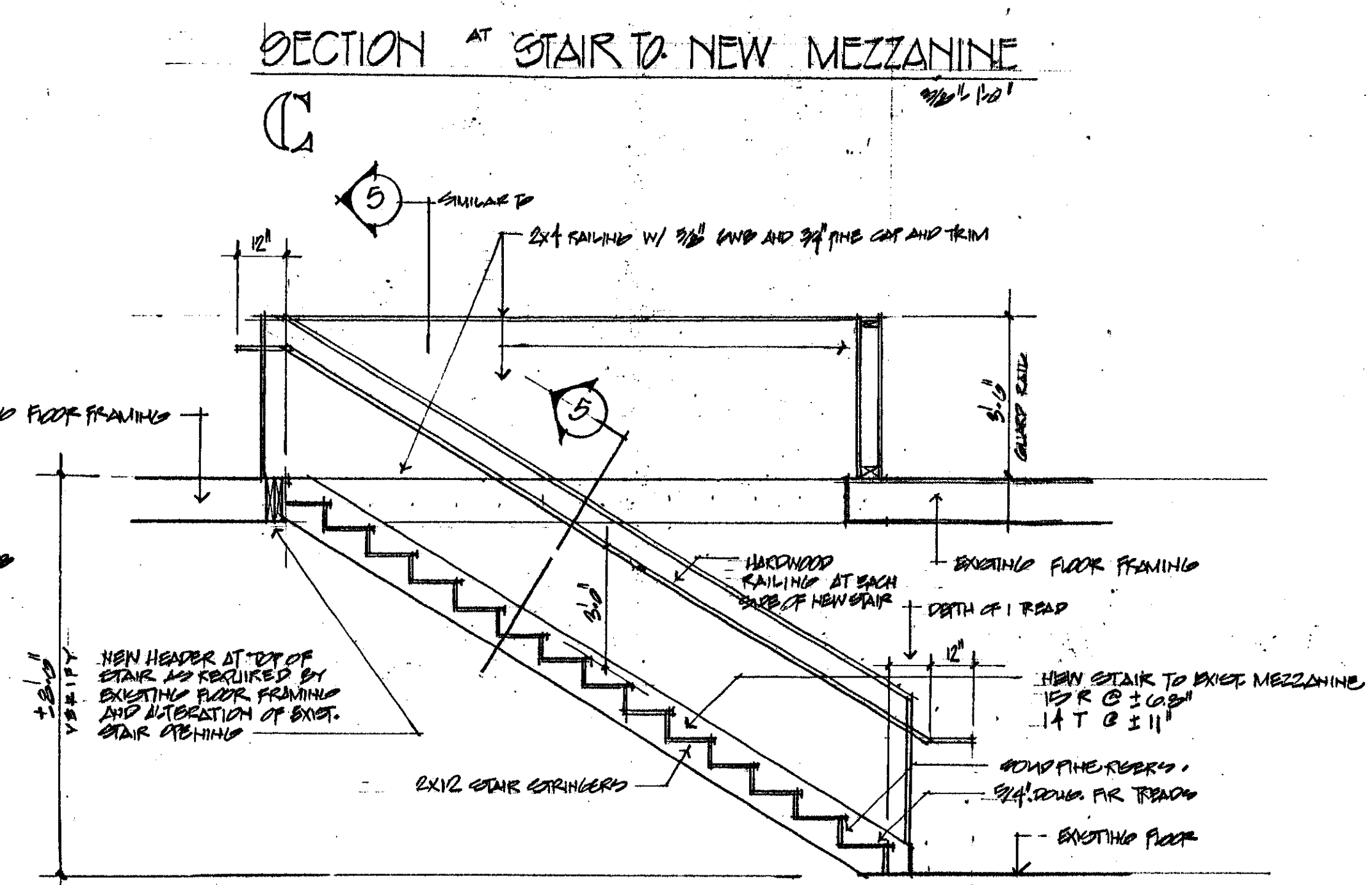
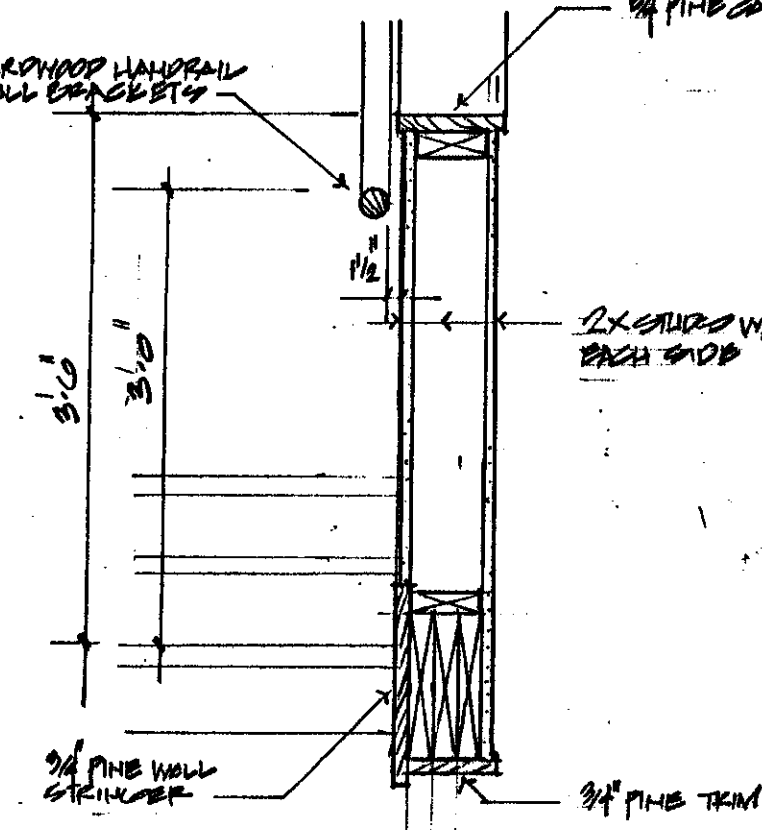
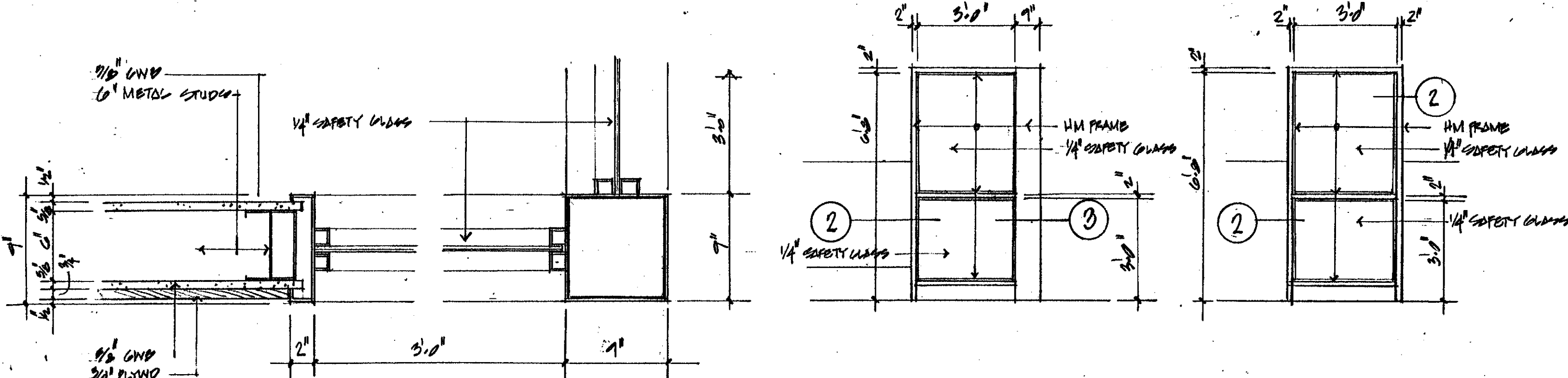
TITLE:
FINISH SCHEDULE - DETAILS
PLAN OF NEW TOILET ROOMS

CHARLES E. METZ
ARCHITECT
THE GRIST MILL
BRADFORD VT 05033

DRAWING:
A4



WALL TYPES
 NOTE:
 ALL WALLS CONSTRUCTED TO UNDERLIE OF FRT. DECK



PROJECT: RENOVATIONS, DENNINGTON AOT DISTRICT OFFICE, DENNINGTON VT.
 TITLE: SECTION A DETAILS

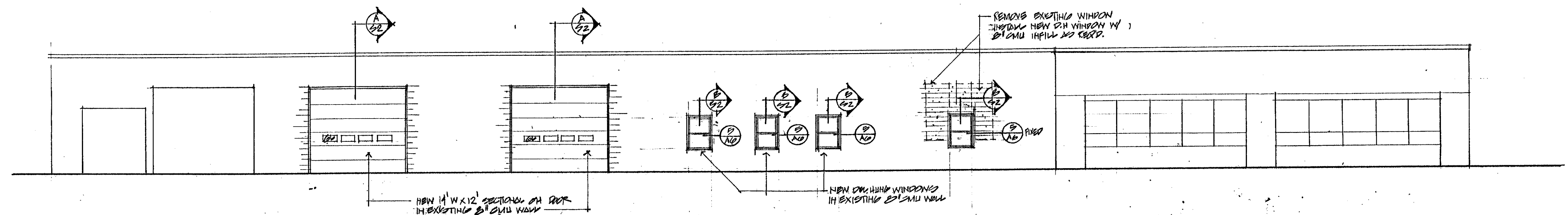
CHARLES E. METZ
 ARCHITECT
 THE GRIST MILL
 BRADFORD VT 05033

DRAWING:
 AED

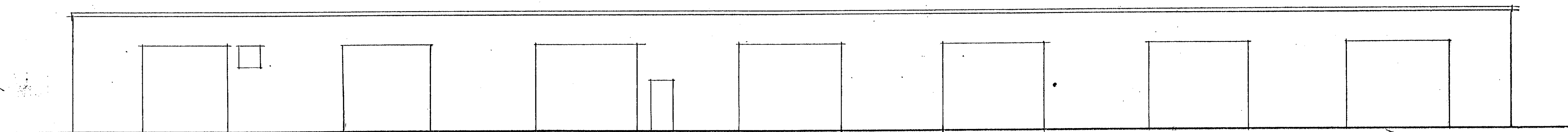
GLASS AND HOLLOW METAL FRAMES-DETAILS AND ELEVATIONS

DRAWING:

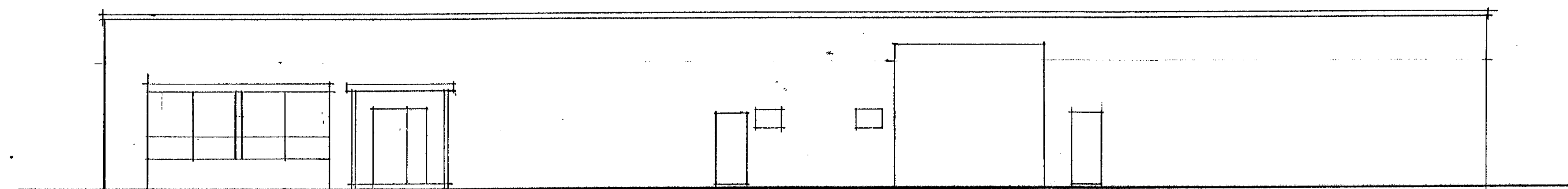
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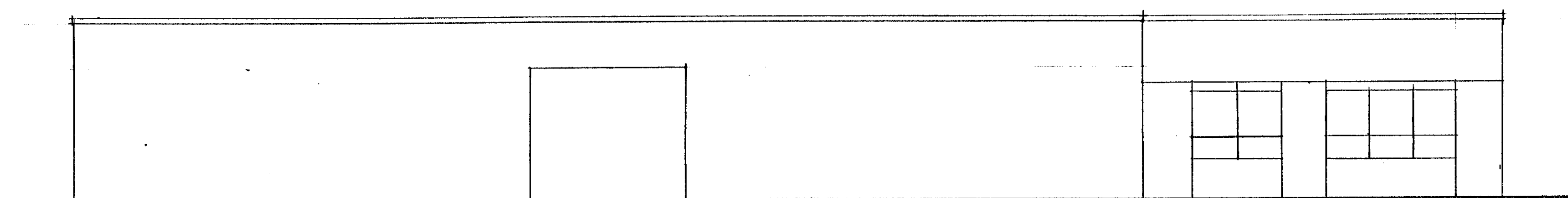
NORTH ELEVATION



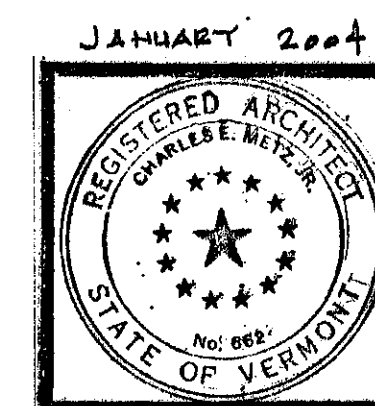
SOUTH ELEVATION



WEST ELEVATION



EAST ELEVATION

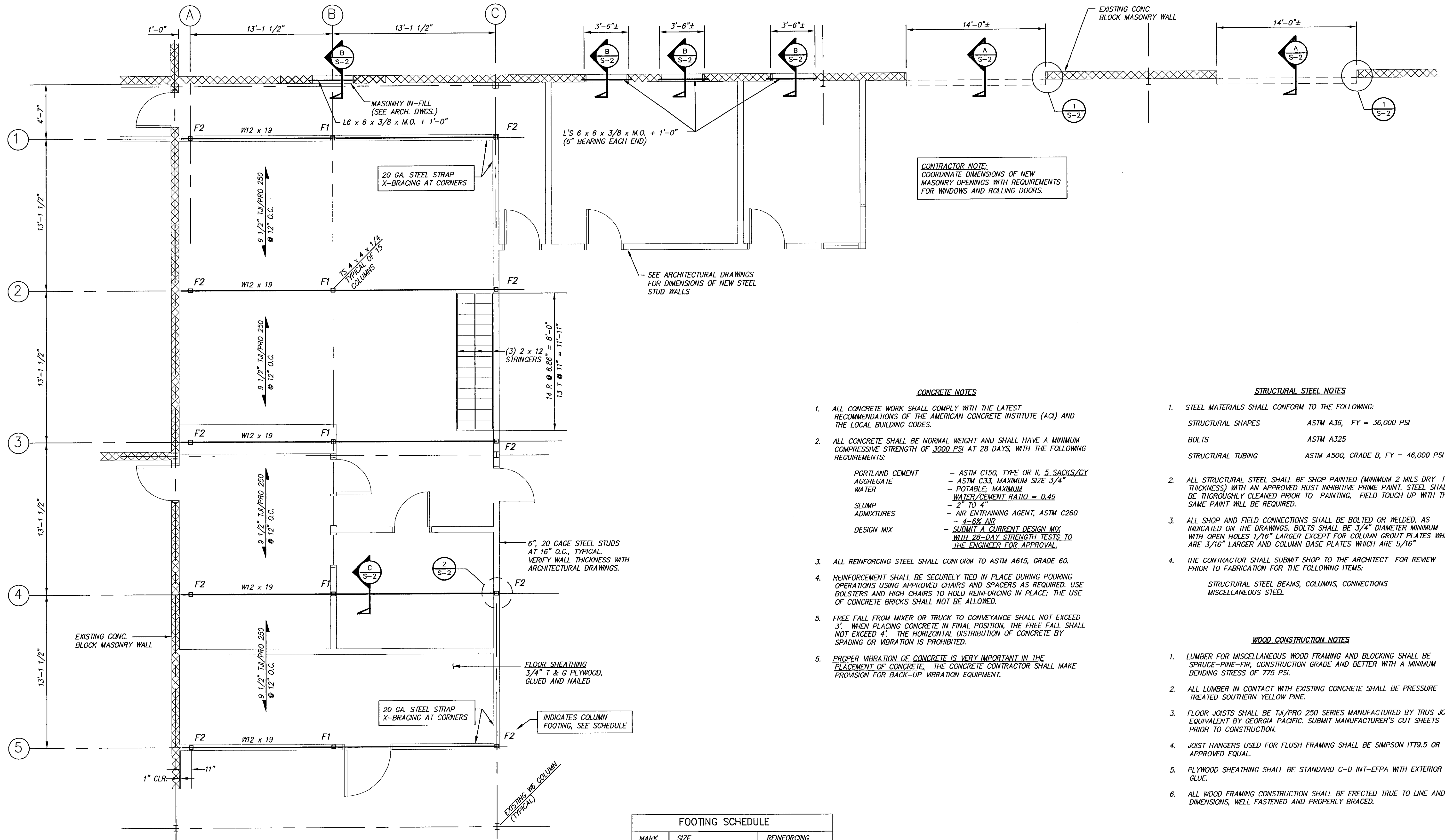


PROJECT:
RENOVATIONS BENNINGTON AOT
DISTRICT OFFICE 1 BENNINGTON VT
TITLE:
EXTERIOR ELEVATIONS

CHARLES E. METZ
ARCHITECT
THE GRIST MILL
BRADFORD VT 05033

DRAWING:

A7



CONTRACTOR NOTE:
 COORDINATE DIMENSIONS OF NEW MASONRY OPENINGS WITH REQUIREMENTS FOR WINDOWS AND ROLLING DOORS.

CONCRETE NOTES

- ALL CONCRETE WORK SHALL COMPLY WITH THE LATEST RECOMMENDATIONS OF THE AMERICAN CONCRETE INSTITUTE (ACI) AND THE LOCAL BUILDING CODES.
- ALL CONCRETE SHALL BE NORMAL WEIGHT AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS, WITH THE FOLLOWING REQUIREMENTS:
 - PORTLAND CEMENT - ASTM C150, TYPE OR II, 5 SACKS/CY
 - AGGREGATE - ASTM C33, MAXIMUM SIZE 3/4"
 - WATER - POTABLE; MAXIMUM WATER/CEMENT RATIO = 0.49
 - SLUMP - 2" TO 4"
 - ADMIXTURES - AIR ENTRAINING AGENT, ASTM C260
 - DESIGN MIX - 4-6% AIR
 - SUBMIT A CURRENT DESIGN MIX WITH 28-DAY STRENGTH TESTS TO THE ENGINEER FOR APPROVAL.
- ALL REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60.
- REINFORCEMENT SHALL BE SECURELY TIED IN PLACE DURING POURING OPERATIONS USING APPROVED CHAIRS AND SPACERS AS REQUIRED. USE BOLSTERS AND HIGH CHAIRS TO HOLD REINFORCING IN PLACE; THE USE OF CONCRETE BRICKS SHALL NOT BE ALLOWED.
- FREE FALL FROM MIXER OR TRUCK TO CONVEYANCE SHALL NOT EXCEED 3'. WHEN PLACING CONCRETE IN FINAL POSITION, THE FREE FALL SHALL NOT EXCEED 4'. THE HORIZONTAL DISTRIBUTION OF CONCRETE BY SPADING OR VIBRATION IS PROHIBITED.
- PROPER VIBRATION OF CONCRETE IS VERY IMPORTANT IN THE PLACEMENT OF CONCRETE. THE CONCRETE CONTRACTOR SHALL MAKE PROVISION FOR BACK-UP VIBRATION EQUIPMENT.

STRUCTURAL STEEL NOTES

- STEEL MATERIALS SHALL CONFORM TO THE FOLLOWING:

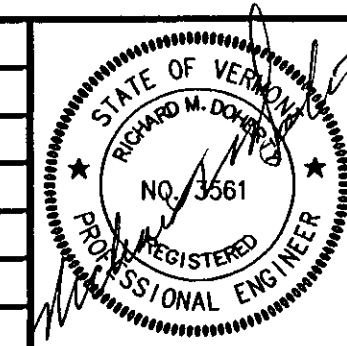
STRUCTURAL SHAPES	ASTM A36, FY = 36,000 PSI
BOLTS	ASTM A325
STRUCTURAL TUBING	ASTM A500, GRADE B, FY = 46,000 PSI
- ALL STRUCTURAL STEEL SHALL BE SHOP PAINTED (MINIMUM 2 MILS DRY FILM THICKNESS) WITH AN APPROVED RUST INHIBITIVE PRIME PAINT. STEEL SHALL BE THOROUGHLY CLEANED PRIOR TO PAINTING. FIELD TOUCH UP WITH THE SAME PAINT WILL BE REQUIRED.
- ALL SHOP AND FIELD CONNECTIONS SHALL BE BOLTED OR WELDED, AS INDICATED ON THE DRAWINGS. BOLTS SHALL BE 3/4" DIAMETER MINIMUM WITH OPEN HOLES 1/16" LARGER EXCEPT FOR COLUMN GROUT PLATES WHICH ARE 3/16" LARGER AND COLUMN BASE PLATES WHICH ARE 5/16"
- THE CONTRACTOR SHALL SUBMIT SHOP TO THE ARCHITECT FOR REVIEW PRIOR TO FABRICATION FOR THE FOLLOWING ITEMS:

STRUCTURAL STEEL BEAMS, COLUMNS, CONNECTIONS
MISCELLANEOUS STEEL

WOOD CONSTRUCTION NOTES

- LUMBER FOR MISCELLANEOUS WOOD FRAMING AND BLOCKING SHALL BE SPRUCE-PINE-FIR, CONSTRUCTION GRADE AND BETTER WITH A MINIMUM BENDING STRESS OF 775 PSI.
- ALL LUMBER IN CONTACT WITH EXISTING CONCRETE SHALL BE PRESSURE TREATED SOUTHERN YELLOW PINE.
- FLOOR JOISTS SHALL BE TJI/PRO 250 SERIES MANUFACTURED BY TRUS JOIST OR EQUIVALENT BY GEORGIA PACIFIC. SUBMIT MANUFACTURER'S CUT SHEETS PRIOR TO CONSTRUCTION.
- JOIST HANGERS USED FOR FLUSH FRAMING SHALL BE SIMPSON ITT9.5 OR APPROVED EQUAL.
- PLYWOOD SHEATHING SHALL BE STANDARD C-D INT-EPFA WITH EXTERIOR GLUE.
- ALL WOOD FRAMING CONSTRUCTION SHALL BE ERECTED TRUE TO LINE AND DIMENSIONS, WELL FASTENED AND PROPERLY BRACED.

Date	Revision	Date	Revision

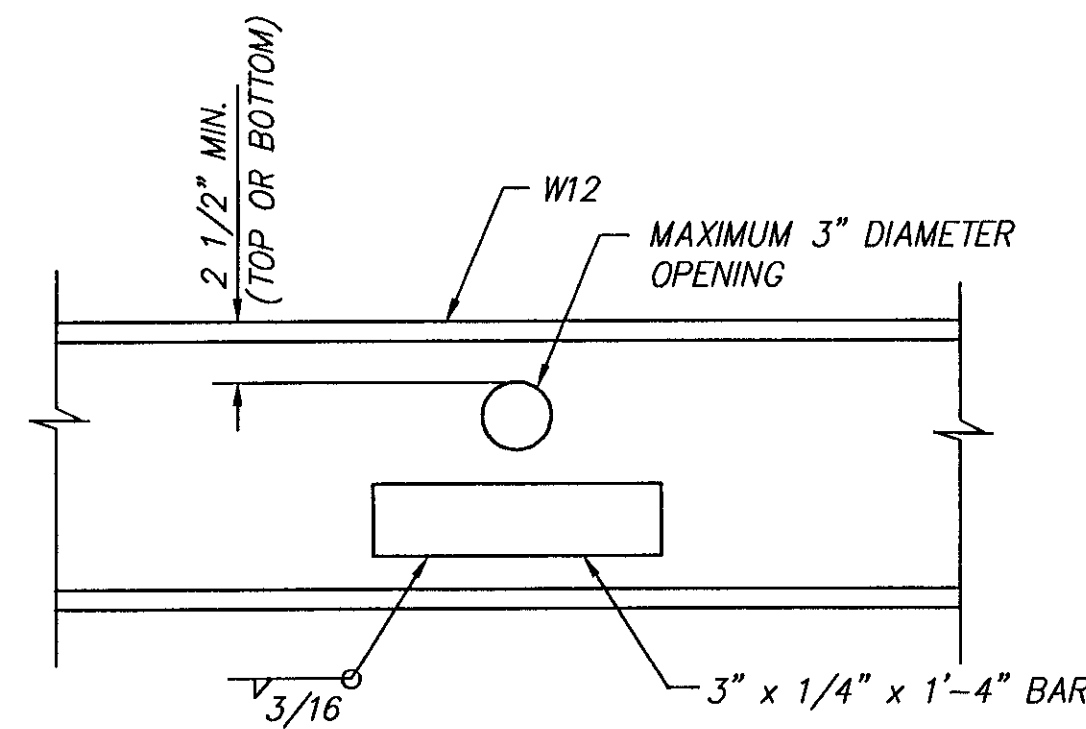


RICHARD M. DOHERTY, P.E.
 STRUCTURAL ENGINEERING
 117 ST. PAUL ST. • BURLINGTON, VT • 05401
 802 • 660 • 9212

Date: 1/19/2007
 Scale: AS NOTED
 Drawn By: LRB
 Checked By: RMD
 Project No.: 2377

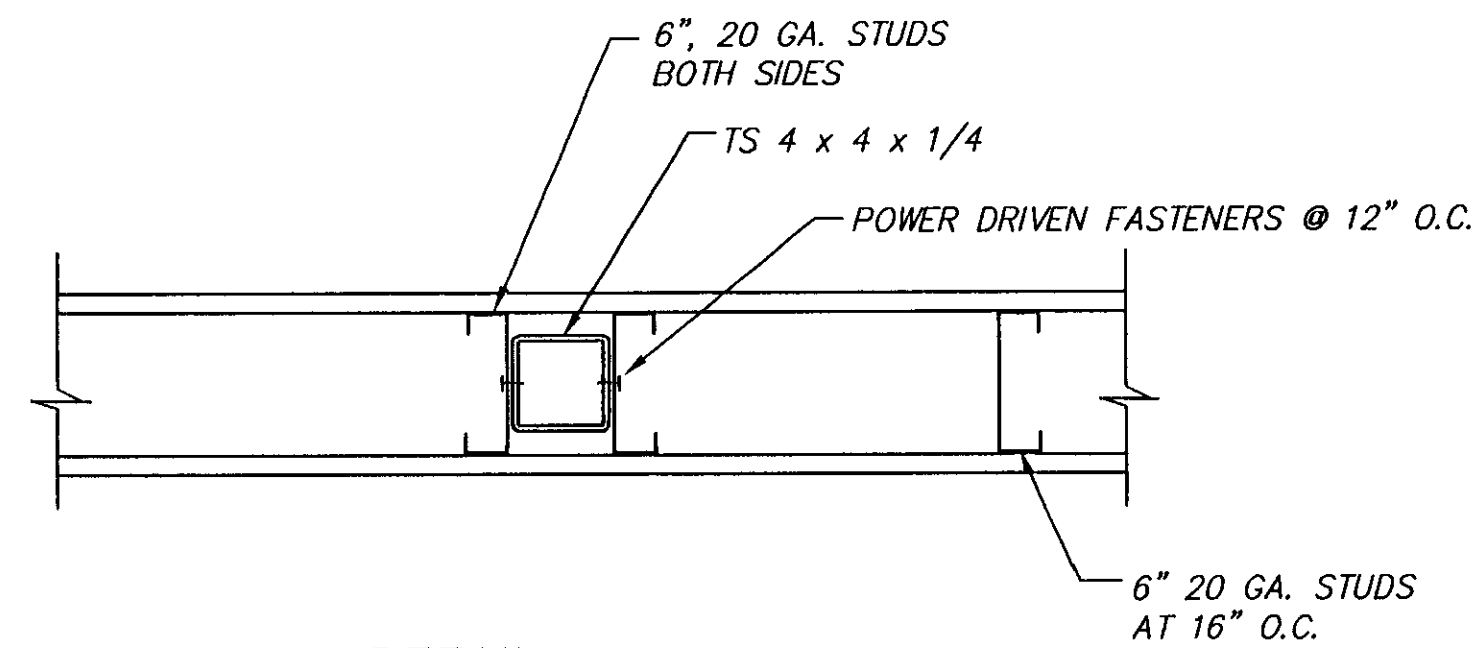
FRAMING PLAN
BENNINGTON AOT
BENNINGTON, VERMONT

Sheet Number
S-1



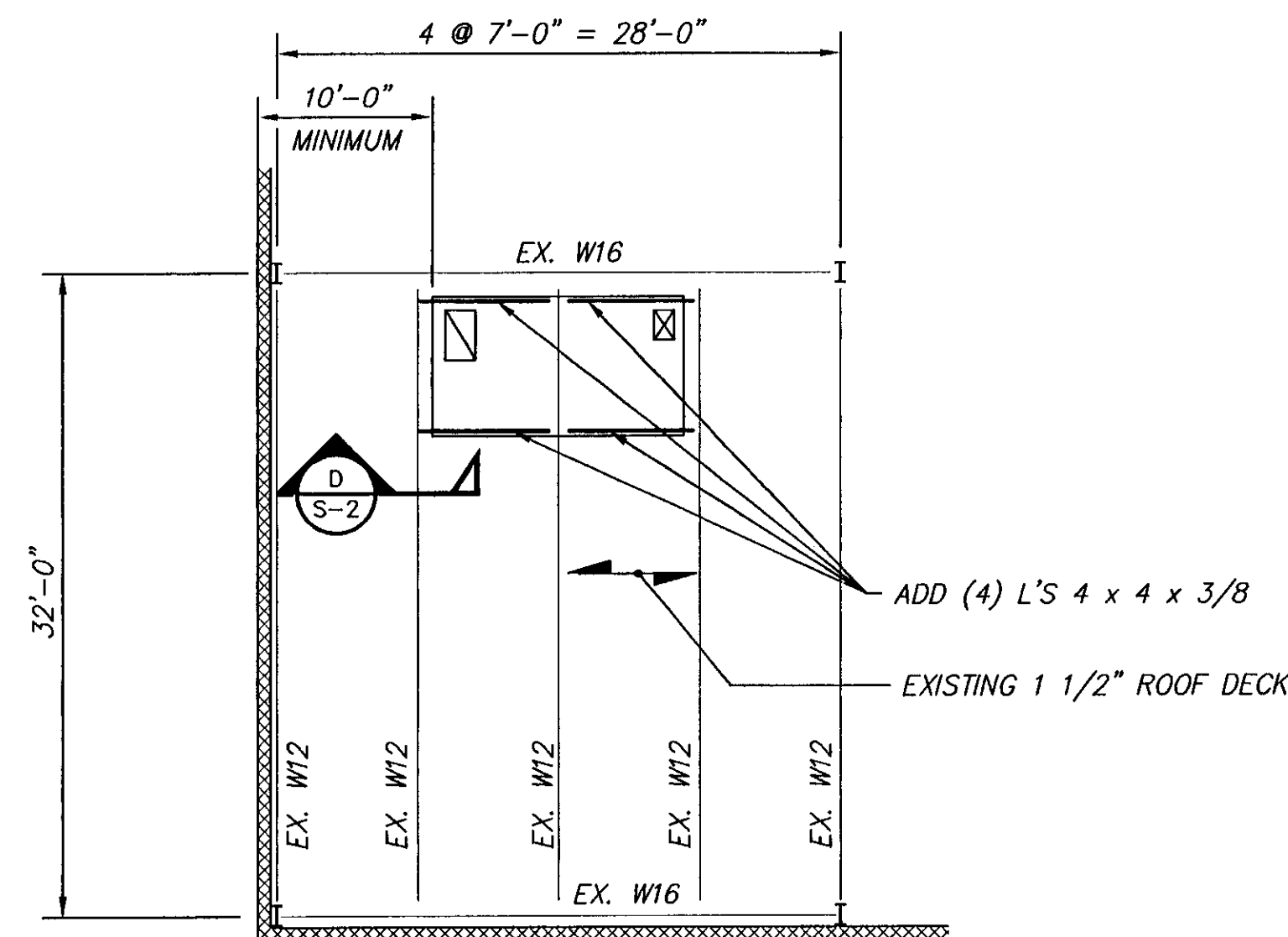
SECTION
SCALE: 1 1/2" = 1'-0" (3 S-2)

USE THIS DETAIL FOR PIPE PENETRATIONS AT STEEL BEAMS. PROVIDE LAYOUT OF PIPING AND DETAILS OF PENETRATIONS FOR REVIEW.



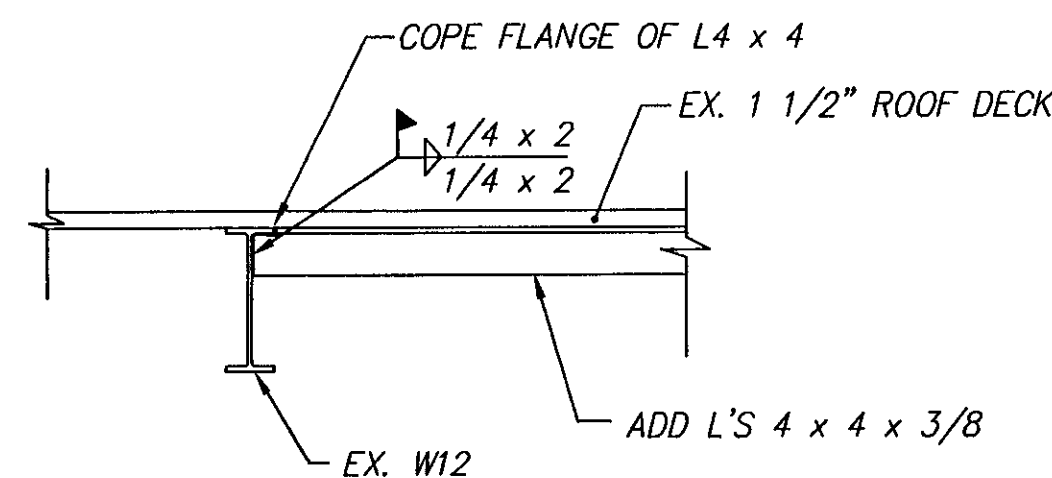
DETAIL
SCALE: 1 1/2" = 1'-0" (2 S-2)

USE THIS DETAIL AT ALL COLUMNS IN STUD WALLS.

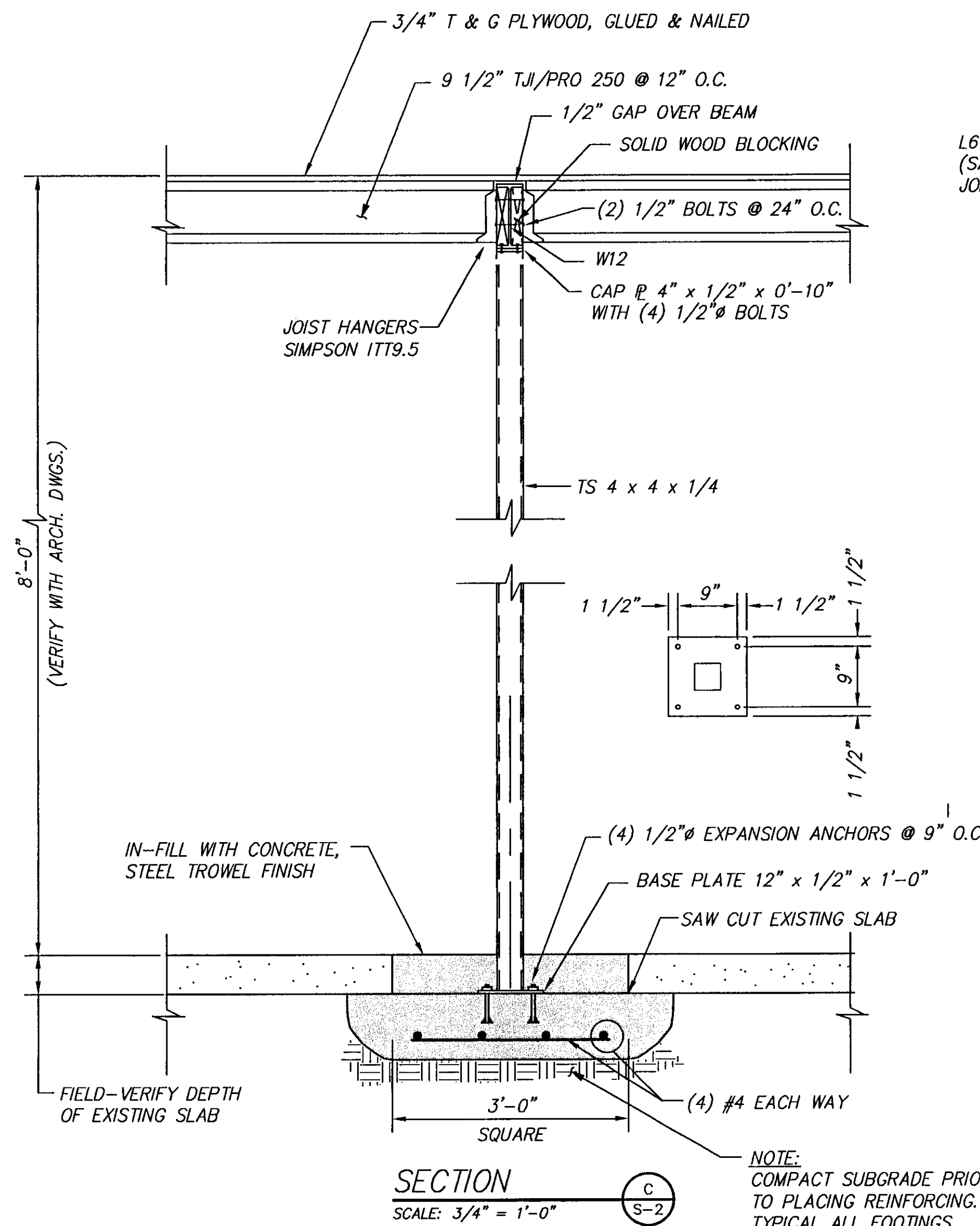


PARTIAL ROOF FRAMING PLAN
SCALE: 1/8" = 1'-0"

ADD ALTERNATE NO. 2

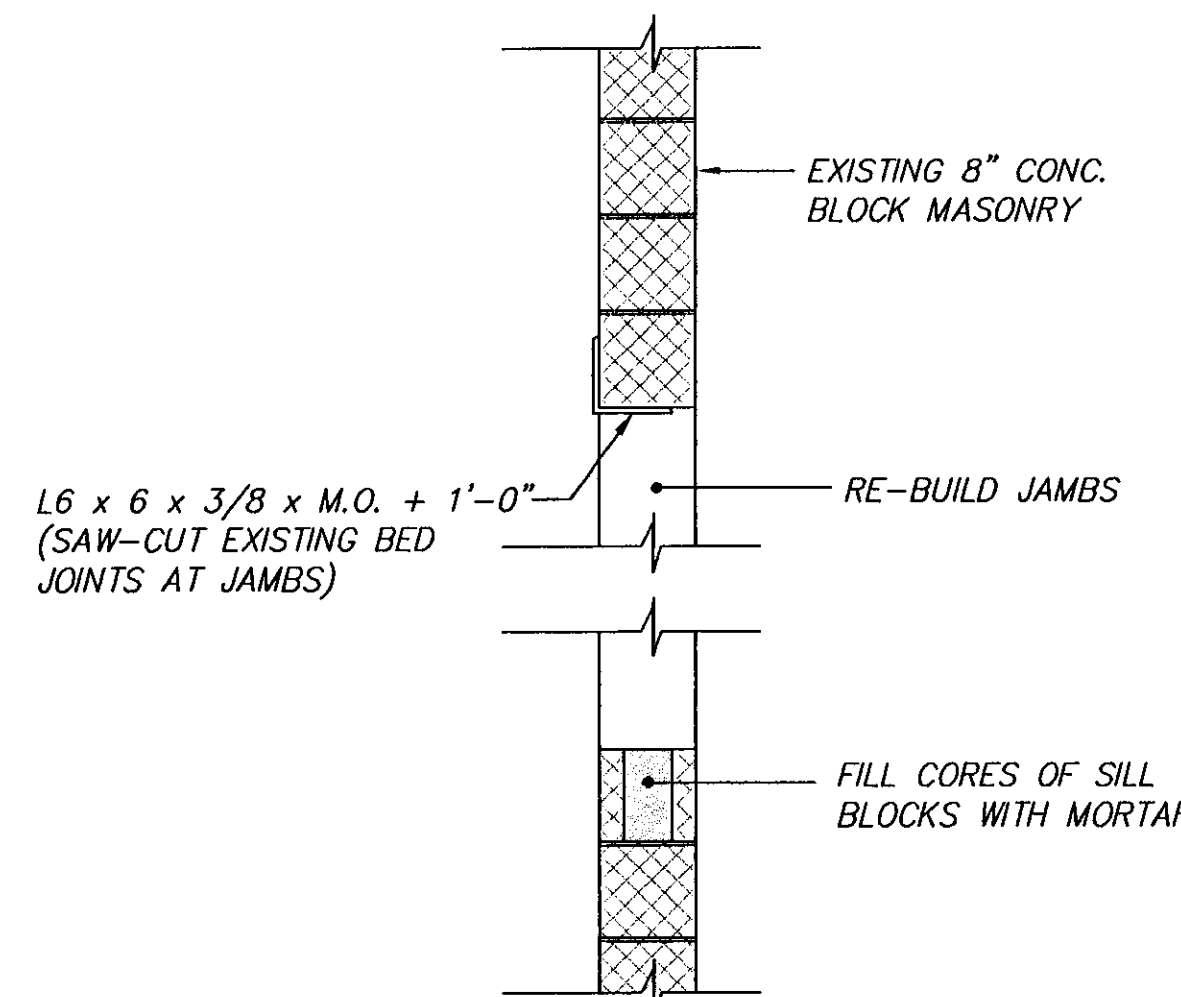


SECTION
SCALE: 3/4" = 1'-0" (D S-2)

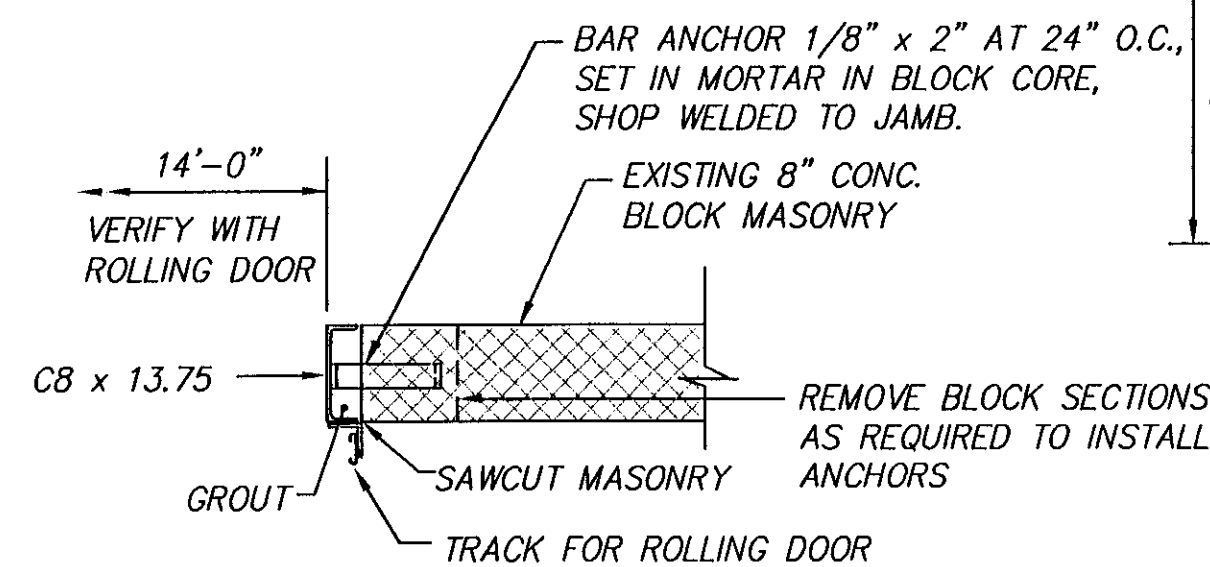


SECTION
SCALE: 3/4" = 1'-0" (C S-2)

NOTE: COMPACT SUBGRADE PRIOR TO PLACING REINFORCING. TYPICAL ALL FOOTINGS.

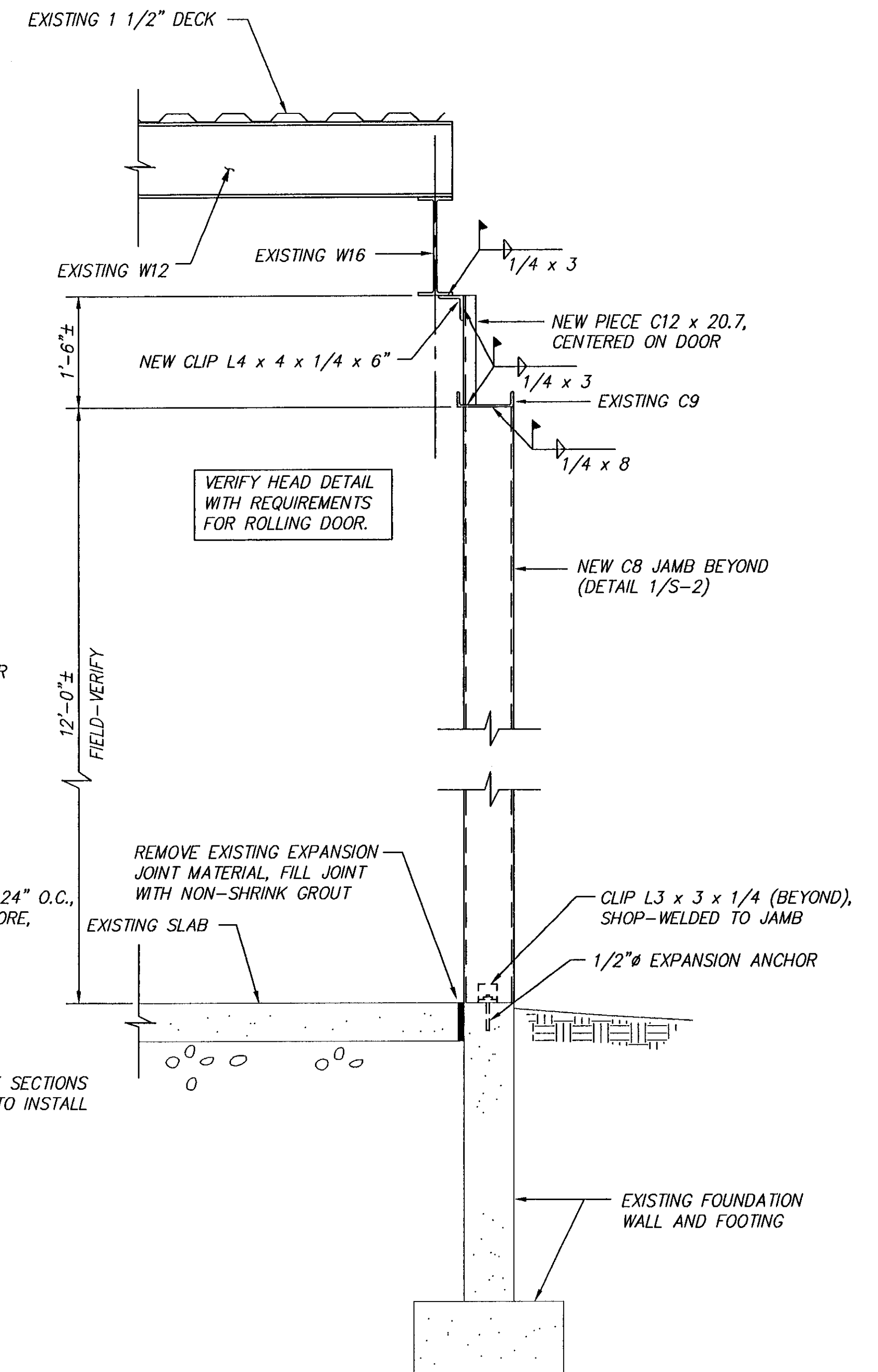


SECTION
SCALE: 1 1/2" = 1'-0" (B S-2)



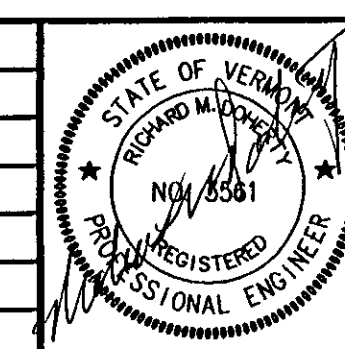
DETAIL
SCALE: 3/4" = 1'-0" (1 S-2)

USE THIS DETAIL AT 4 JAMBS AT OVERHEAD DOORS



SECTION
SCALE: 3/4" = 1'-0" (A S-2)

Date	Revision	Date	Revision



RICHARD M. DOHERTY, P.E.
STRUCTURAL ENGINEERING
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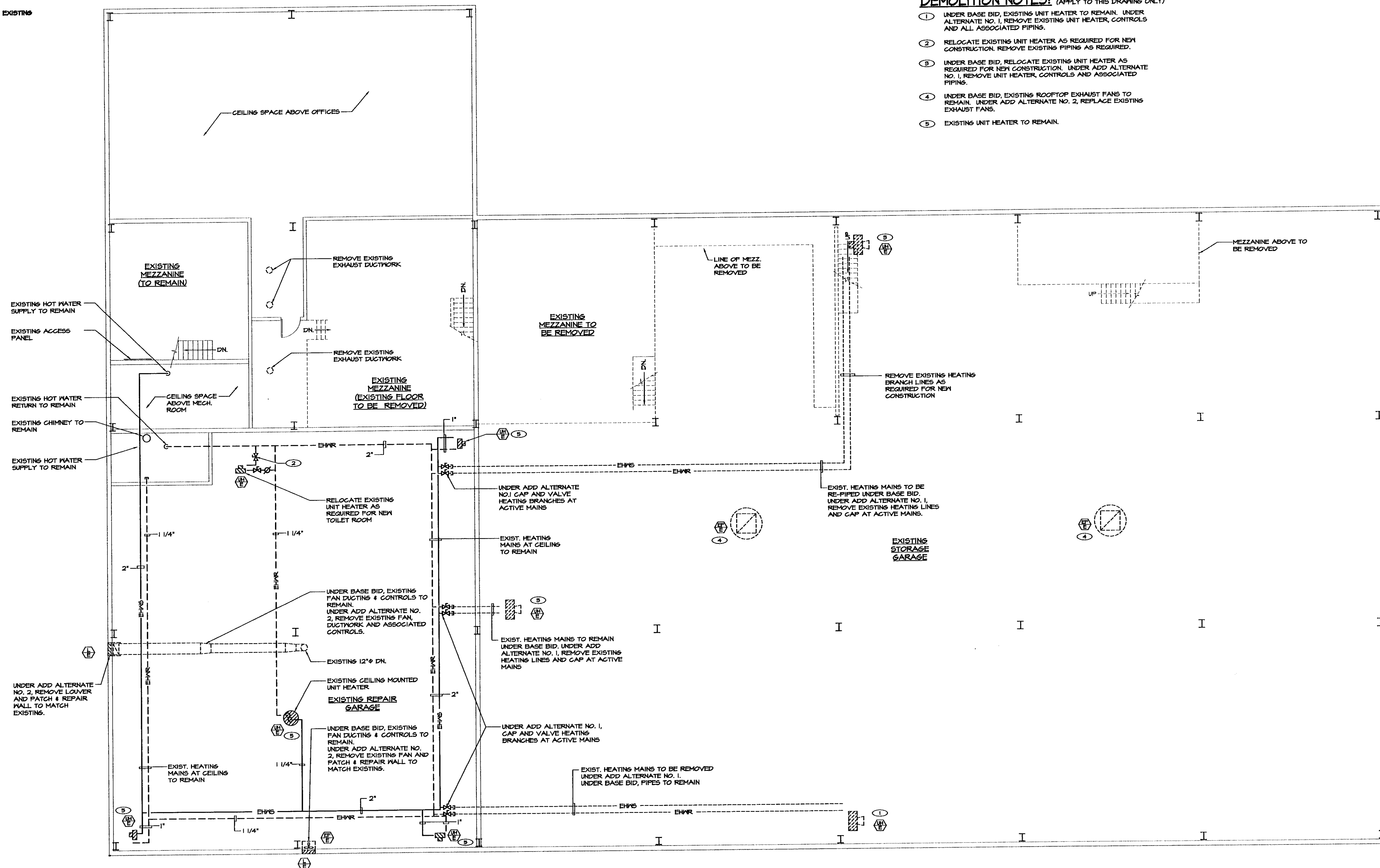
Date: 11/19/2004
Scale: AS NOTED
Drawn By: LRB
Checked By: RMD
Project No.: 2377

STRUCTURAL SECTIONS AND DETAILS
BENNINGTON AOT
BENNINGTON, VERMONT

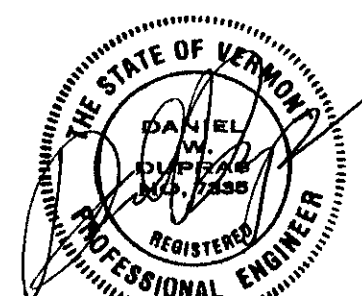
Sheet Number
S-2

DEMOLITION NOTES: (APPLY TO THIS DRAWING ONLY)

1. UNDER BASE BID, EXISTING UNIT HEATER TO REMAIN. UNDER ALTERNATE NO. 1, REMOVE EXISTING UNIT HEATER, CONTROLS AND ALL ASSOCIATED PIPING.
2. RELOCATE EXISTING UNIT HEATER AS REQUIRED FOR NEW CONSTRUCTION. REMOVE EXISTING PIPING AS REQUIRED.
3. UNDER BASE BID, RELOCATE EXISTING UNIT HEATER AS REQUIRED FOR NEW CONSTRUCTION. UNDER ALTERNATE NO. 1, REMOVE UNIT HEATER, CONTROLS AND ASSOCIATED PIPING.
4. UNDER BASE BID, EXISTING ROOFTOP EXHAUST FANS TO REMAIN. UNDER ALTERNATE NO. 2, REPLACE EXISTING EXHAUST FANS.
5. EXISTING UNIT HEATER TO REMAIN.



 **MEZZANINE FLOOR PLAN - MECHANICAL DEMOLITION**
SCALE: 1/8"=1'-0"



LANE ASSOCIATES
CONSULTING ENGINEERS, P.C.

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RUTLAND, VERMONT 05701
TELEPHONE: (802)747-3346
FAX/MODEM: (802)747-3356

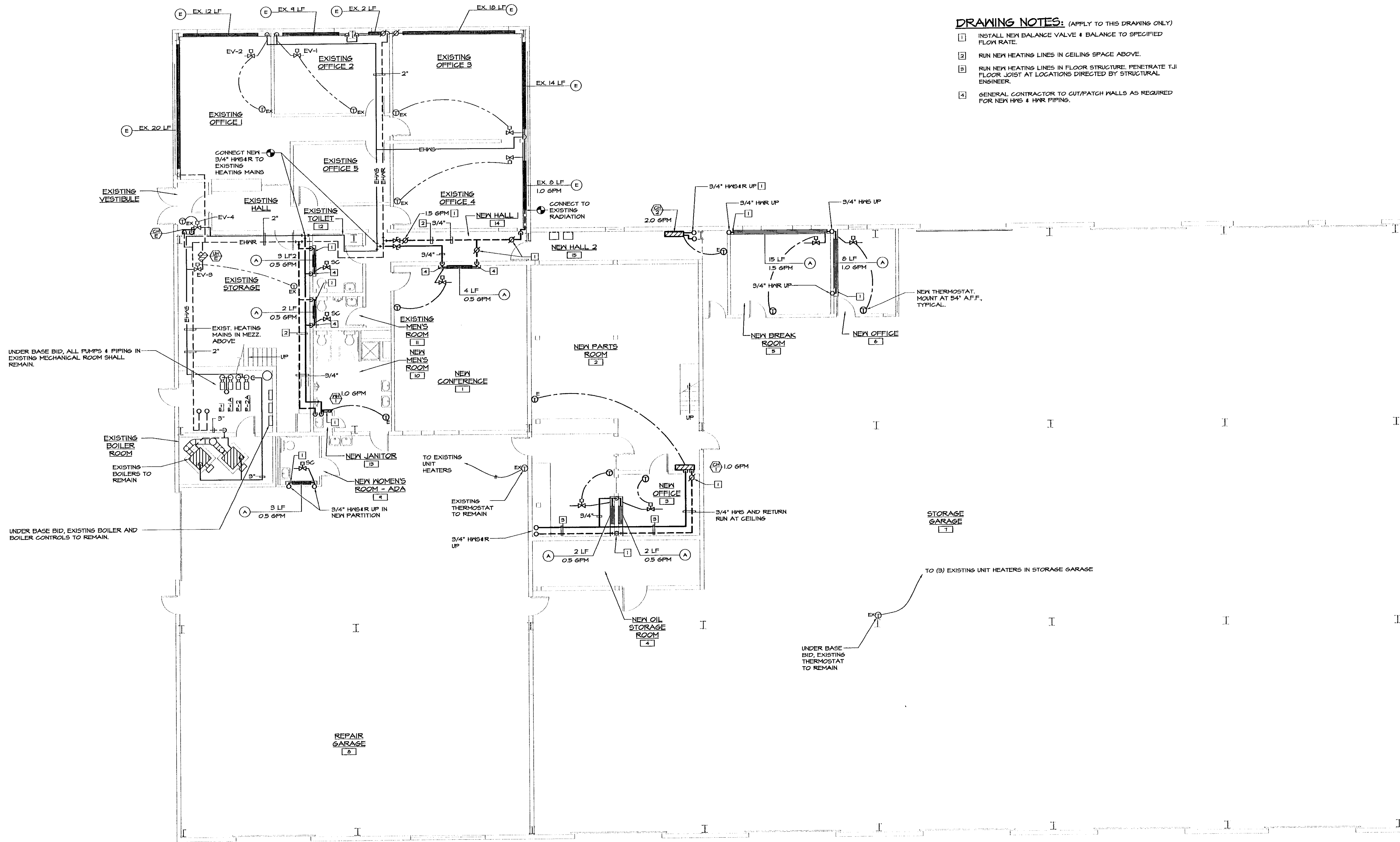
BENNINGTON AOT GARAGE INTERIOR RENOVATIONS

APPR:	DWD	DRAWN:	DWD/KPC	SCALE:	AS NOTED
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M
2

PROJ. NO.	0312-07
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MAIN FLOOR PLAN - NEW HEATING BASE BID

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



NO.	BIDDING	1/19/2004
NO.	ISSUED FOR	DATE

LANE ASSOCIATES
CONSULTING ENGINEERS, P.C.

HEATING, VENTILATION, & AIR CONDITIONING,
PLUMBING, FIRE PROTECTION, & ELECTRICAL

CHARLES F. LANE, P.E.
DANIEL W. DUPRAS, P.E.

51 KILLINGTON AVENUE,
RUTLAND, VERMONT 05701
TELEPHONE: (802)747-3346
FAX/MODEM: (802)747-3356

MAIN FLOOR PLAN
NEW HEATING-BASE BID

BENNINGTON AOT GARAGE
INTERIOR RENOVATIONS

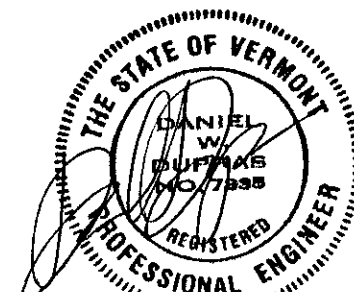
APPR: DWD DRAWN: DWD/KPC SCALE: AS NOTED PROJ. NO. 0312-07

M
3

SYSTEM MODEL: CARRIER, MODEL 58GAB-024-3
CONDENSING UNIT (CU-1): CARRIER, MODEL 38HDC-024-3 208/230-1 PHASE-60 HERTZ
FAN COIL UNIT (AC-1): CARRIER, MODEL 40QAB-024-3 208/230-1 PHASE-60 HERTZ
ACCESSORIES: CONDENSATE PUMP, PROGRAMMABLE ELECTRONIC THERMOSTAT,
CRANKCASE HEATER, WINTER STAT CONTROL, LOW AMBIENT KIT TO -20°F, LIQUID LINE
SOLENOID VALVE, WIND BAFFLES, FRESH AIR INTAKE KIT



MAIN FLOOR PLAN - NEW VENTILATION BASE BID
SCALE: 1/8"=1'-0"



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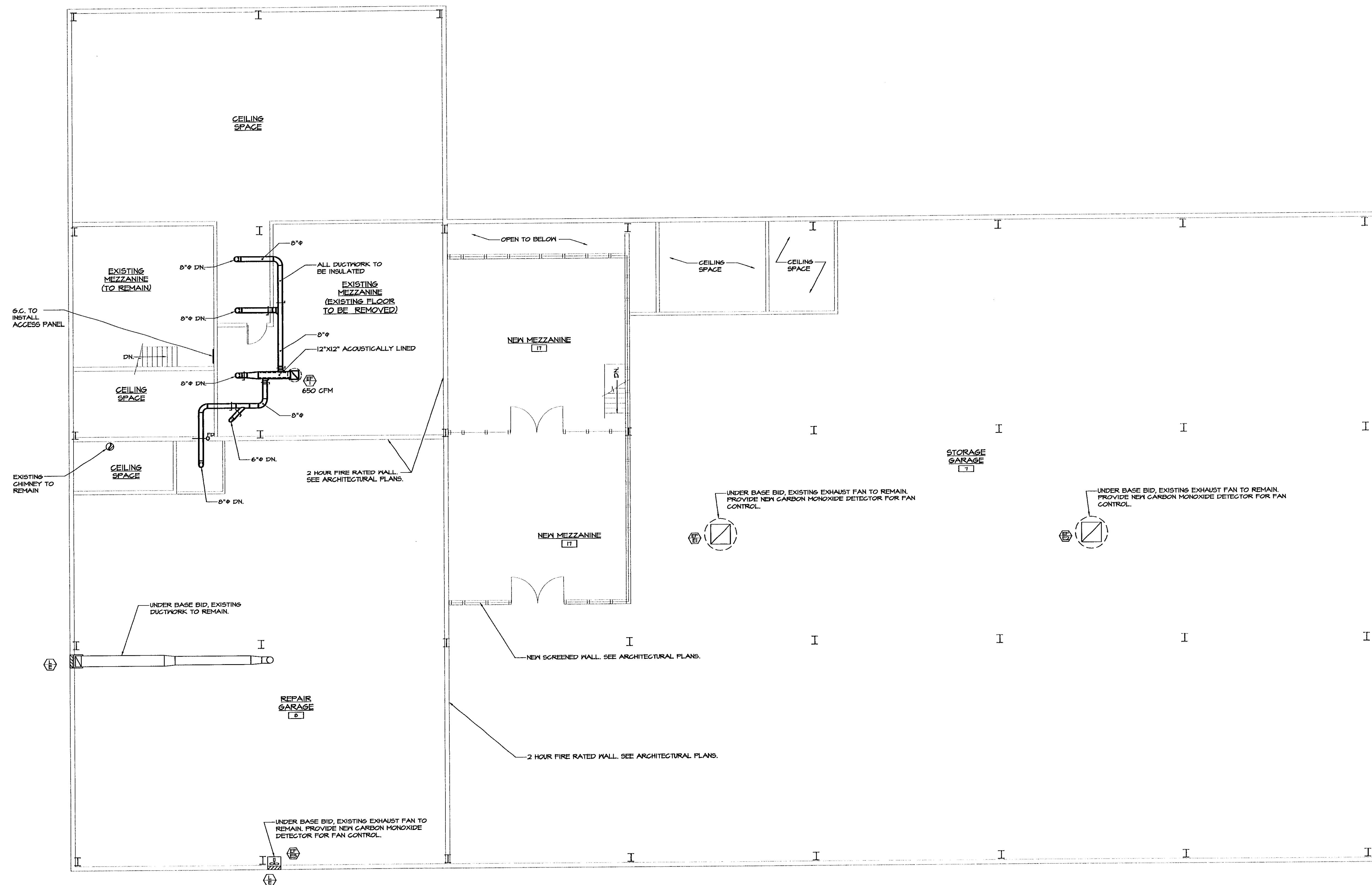
51 KILLINGTON AVENUE,
RUTLAND, VERMONT 05701
TELEPHONE: (802)747-3346
FAX/MODEM: (802)747-3356

BENNINGTON AOT GARAGE INTERIOR RENOVATIONS

APPR:	DWD	DRAWN:	DWD/KPC	SCALE:	AS NOTED	PROJ. NO.	0312-07
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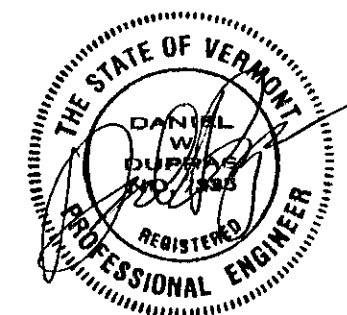
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MEZZANINE FLOOR PLAN - NEW VENTILATION BASE BID

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



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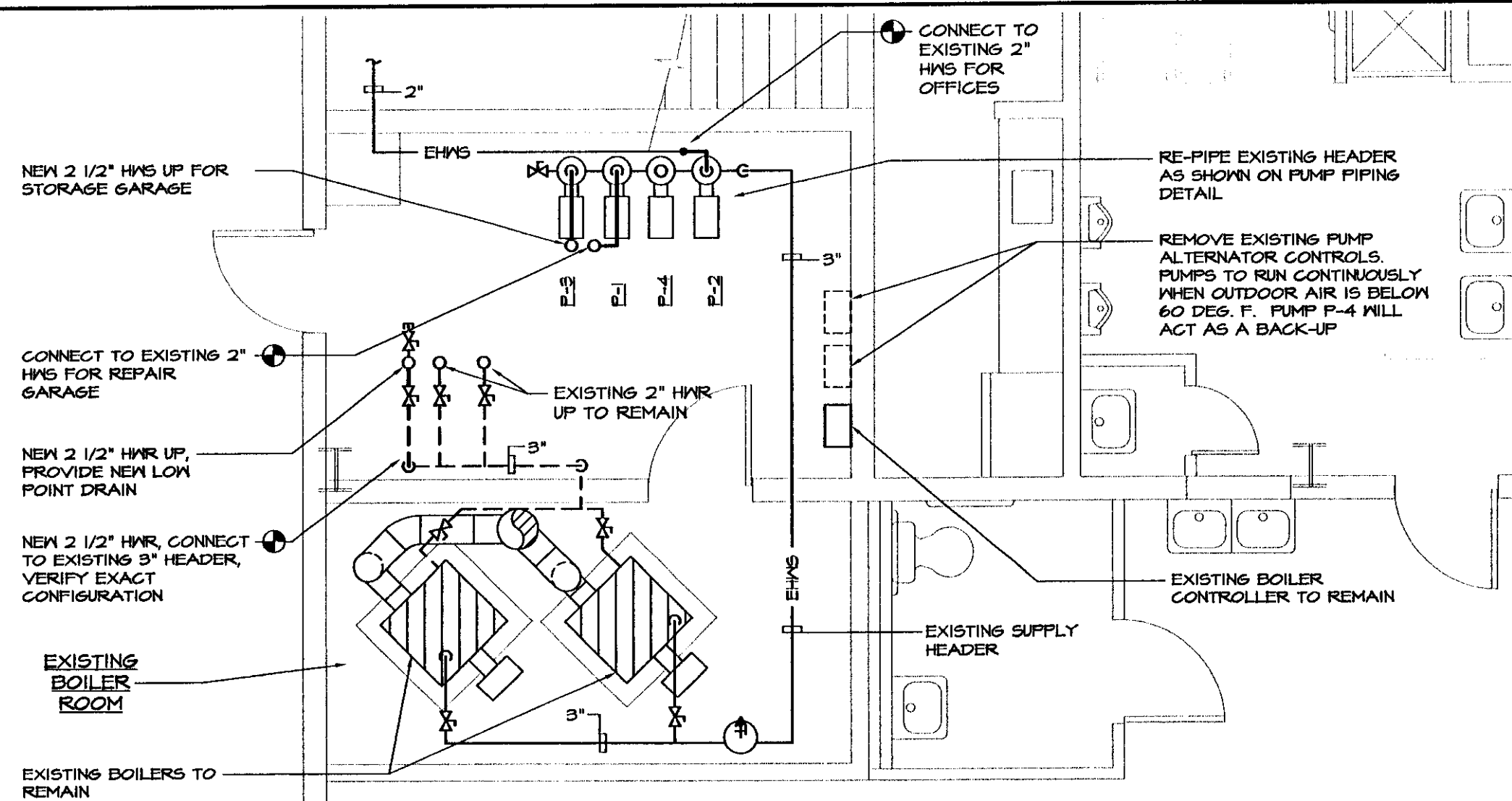
51 KILLINGTON AVENUE,
RUTLAND, VERMONT 05701
TELEPHONE: (802)747-3346
FAX/MODEM: (802)747-3356

MEZZANINE FLOOR PLAN
NEW VENTILATION - BASE BID

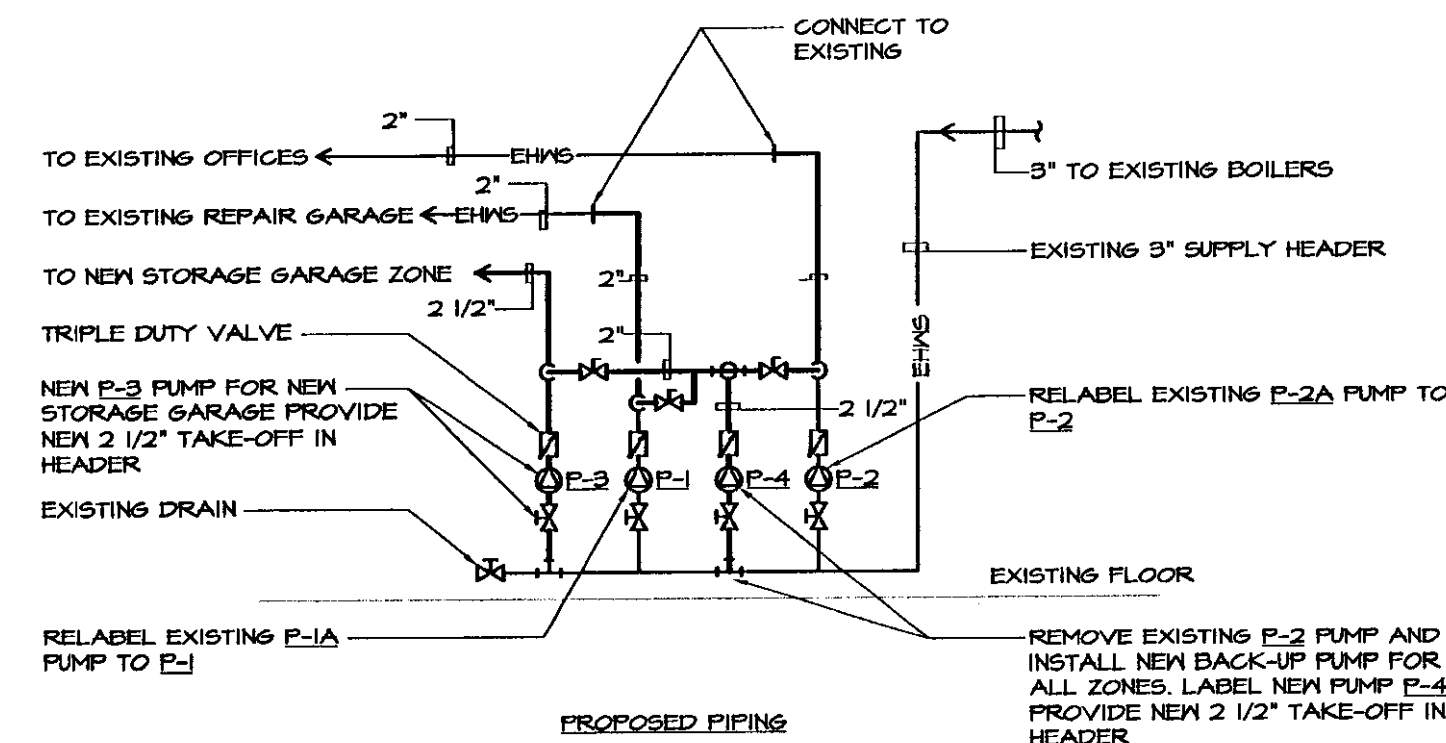
BENNINGTON AOT GARAGE
INTERIOR RENOVATIONS

AFFR:	DWD	DRAWN:	DWD/KPC	SCALE:	AS NOTED	PROJ. NO.	0312-07
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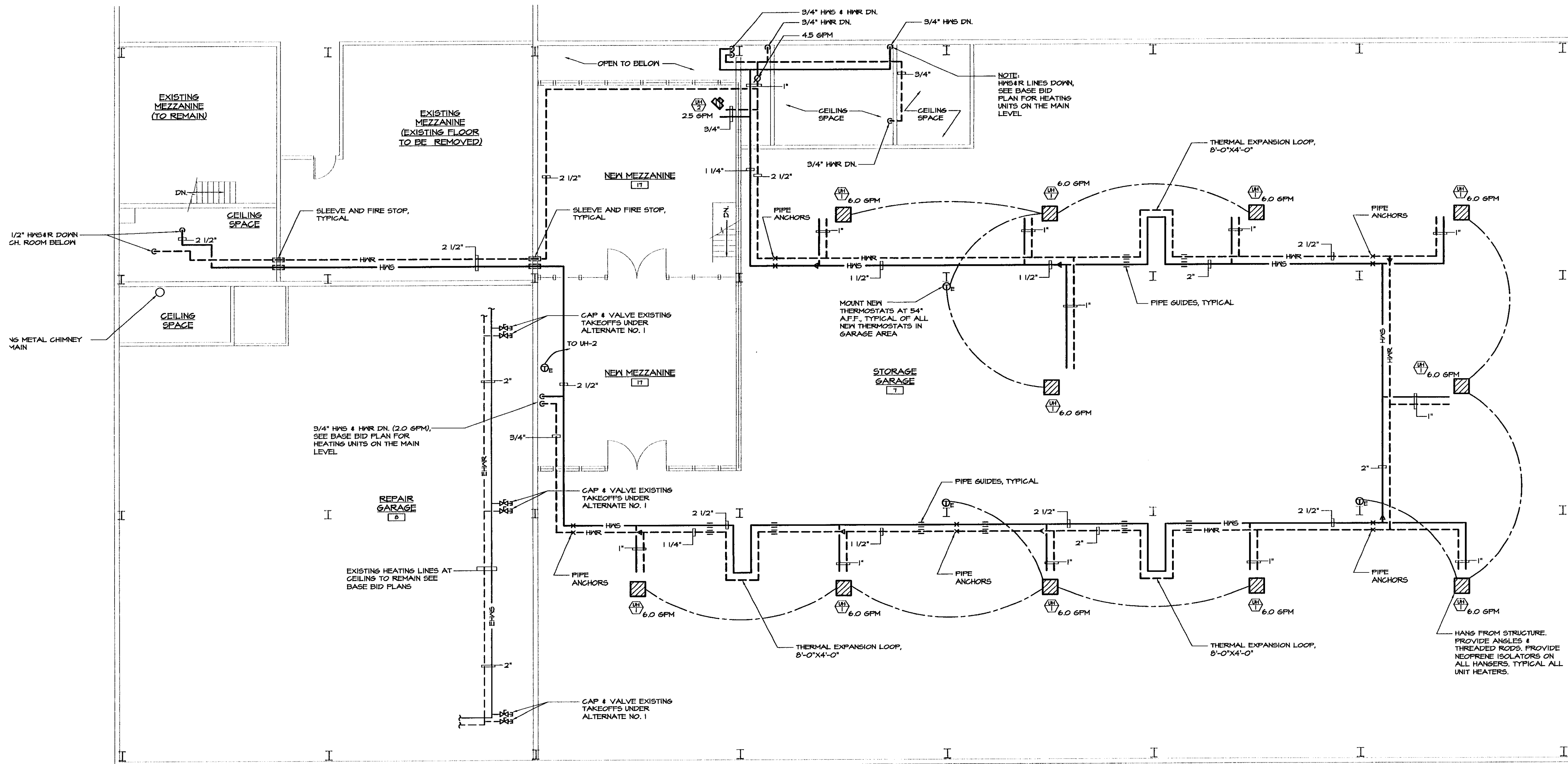
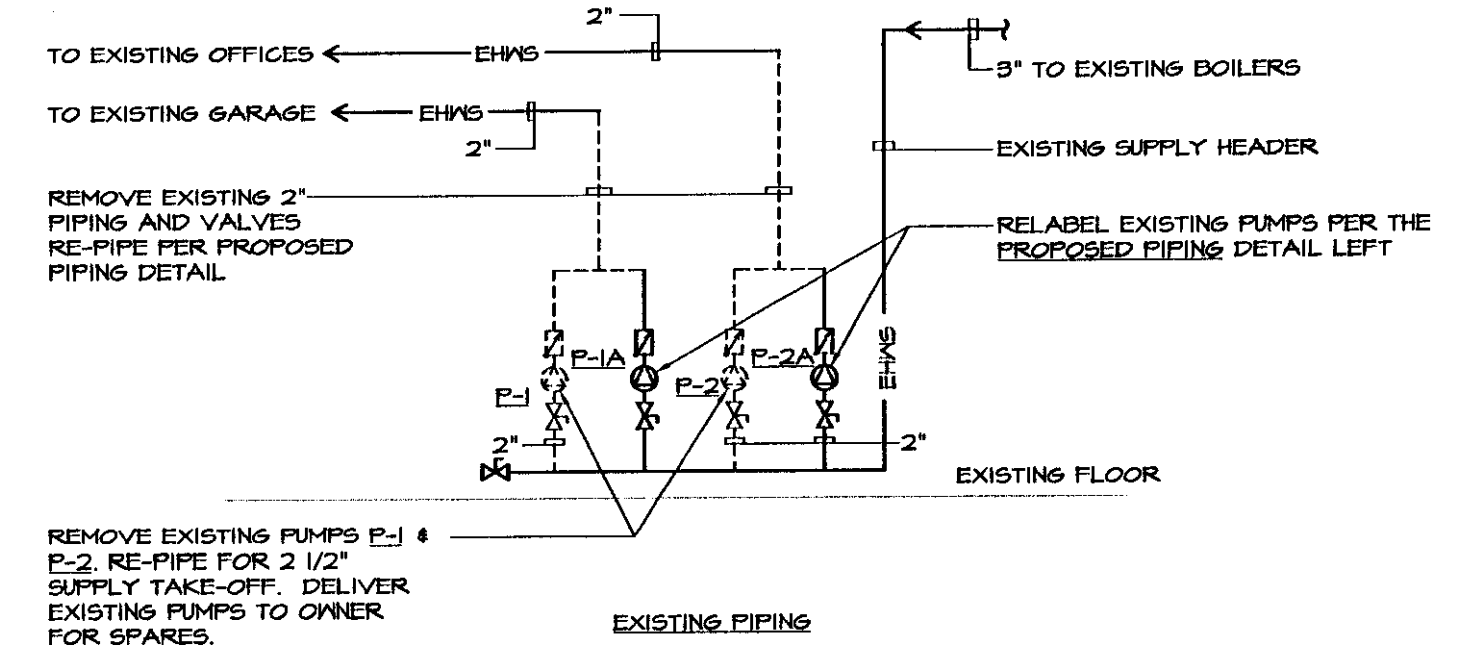
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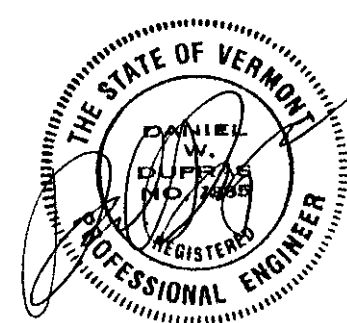
PARTIAL MAIN FLOOR PLAN - BOILER ROOM
ALTERNATE NO. 1 BOILER ROOM WORK
 SCALE: 1/4"=1'-0"



ALTERNATE NO. 1 BOILER ROOM PUMP RE-PIPING DETAIL
 NOT TO SCALE



MEZZANINE PLAN - NEW HEATING ADD ALTERNATE NO. 1
 SCALE: 1/8"=1'-0"



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MEZZANINE FLOOR PLAN
NEW HEATING-ADD ALTERNATE NO. 1 WORK

BENNINGTON AOT GARAGE
INTERIOR RENOVATIONS

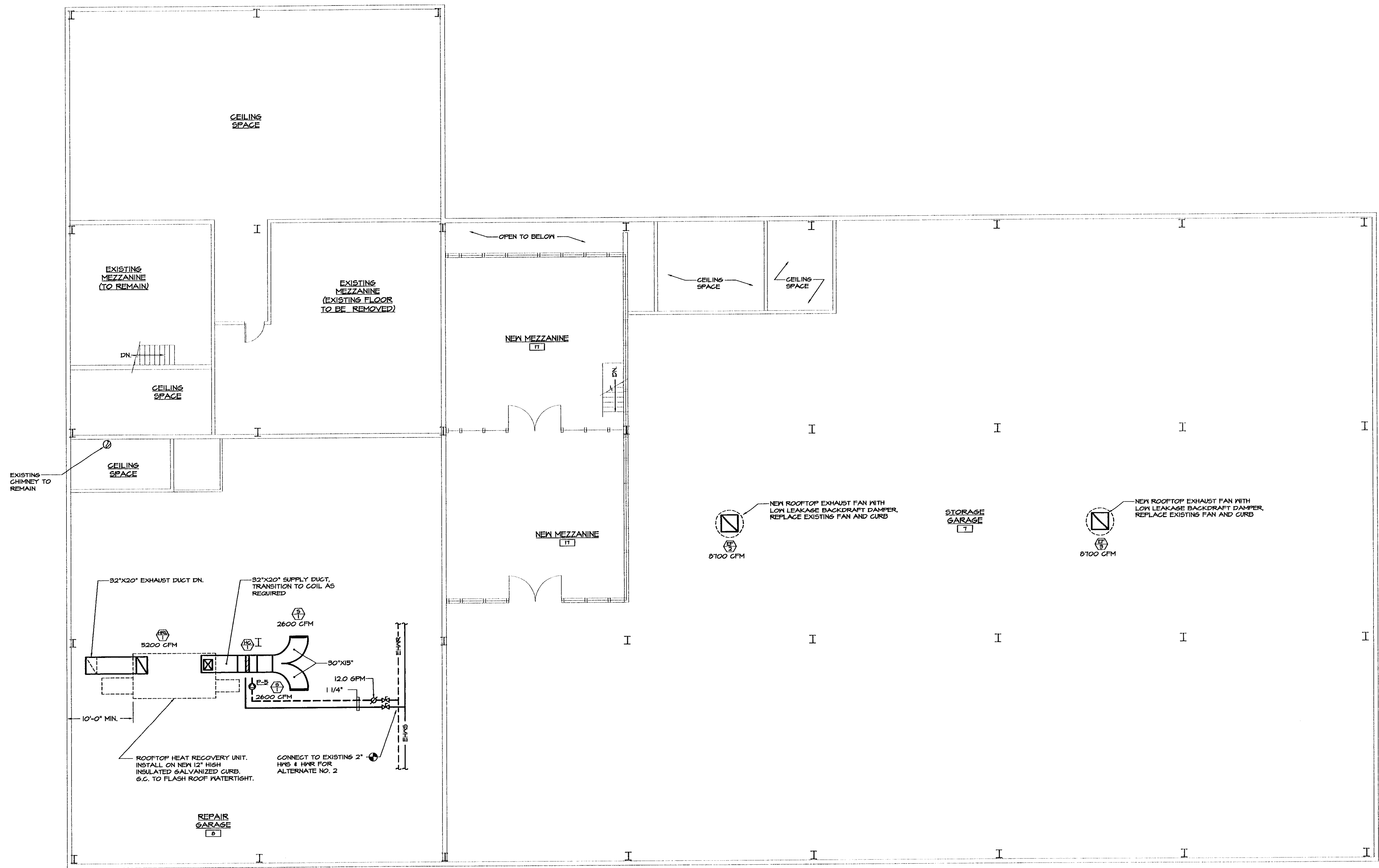
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NO.	ISSUED FOR	DATE
1	BIDDING	1/19/2004

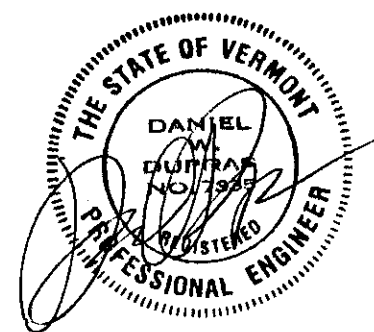
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MEZZANINE FLOOR PLAN - NEW VENTILATION
ADD ALTERNATE NO. 2
SCALE: 1/8"=1'-0"



1	BIDDING	1/19/2004
NO.	ISSUED FOR	DATE



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MEZZANINE FLOOR PLAN NEW VENTILATION - ADD ALTERNATE NO. 2			
BENNINGTON AOT GARAGE INTERIOR RENOVATIONS			
APPR:	DWD	DRAWN:	DWD/KPG
SCALE:	AS NOTED	PROJ. NO.	0312-07

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9

HEAT RECOVERY UNIT SCHEDULE (ALTERNATE NO. 2 ONLY)

REF. No.	AREA SERVED	SUPPLY SIDE												EXHAUST SIDE														
		CFM	MAX. FACE VEL. FPM	RPM	STATIC PRESS. IN. WG.		HP.	MOTOR				AIR TEMP. °F (DB/WB) WINTER		AIR TEMP. °F (DB/WB) SUMMER		CFM	MAX. FACE VEL. FPM	RPM	STATIC PRESS. IN. WG.		MOTOR				AIR TEMP. °F (DB/WB) WINTER		AIR TEMP. °F (DB/WB) SUMMER	
					TOT.	EXT.		VOLTS	PHASE	HZ	ENT.	LVG.	ENT.	LVG.	TOT.				EXT.	HP.	VOLTS	PHASE	HZ	ENT.	LVG.	ENT.	LVG.	
HRU-1	REPAIR GARAGE	5200	-	906	1.60	0.40	3	240	1	60	-20	44	90	83	5200	-	906	1.60	0.40	3	240	1	60	60	-	80	-	

NOTES:
UNIT SHALL BE EQUAL TO HEATEX MODEL 5000-1C. PROVIDE OPTIONAL RECIRCULATION DAMPER, EXHAUST FAN BACKDRAFT DAMPER, FACE/BYPASS DAMPER, OUTSIDE AIR DAMPER, 15" F.G. FANS IN BOTH SUPPLY AND EXHAUST SECTIONS.

HOT WATER COIL SCHEDULE (ALTERNATE NO. 2 ONLY)

No.	MANUF.	MODEL	CFM	ROWS	FINS	FPF	SIZE		AIR SIDE			FACE VELOCITY FPM	MBH	GPM	WATER SIDE			REMARKS
							HEIGHT	WIDTH	E.A.T. (°F)	L.A.T. (°F)	A.P.D. (°F W.G.)				E.W.T. (°F)	L.W.T. (°F)	W.P.D. (FT HD)	
HC-1	TRANE	W	5200	1	PF	118	24"	48"	40	72	0.15	650	180	12	180	150	0.51	-

RADIATION SCHEDULE

TYPE	MANUFACTURER	MODEL	ENCLOSURE HEIGHT	MOUNTING HEIGHT	TIER	BTU/FT.	ELEMENT	A.M.T. (°F)	FINISH	REMARKS
A	VULCAN	DS-12	12"	16"	1	1060	3/4"X2 3/4"X4 1/4"-60	170	B.E.	-

NOTES:
ARCHITECT TO SELECT COLOR OF ENCLOSURE.

DIFFUSER-GRILLE-REGISTER-LOUVER SCHEDULE

No.	MANUFACTURER	SERIES	MODEL	SIZE	AIR PAT	DAMPER	FINISH	REMARKS
E-1	METAL-AIRE	RH	RH	6"X6"	FIXED	-	W.E.	SQUARE TO ROUND TRANSITION
E-2	METAL-AIRE	RH	RH	10"X10"	FIXED	-	W.E.	SQUARE TO ROUND TRANSITION
E-3	METAL-AIRE	RH	RH	8"X8"	FIXED	-	W.E.	SQUARE TO ROUND TRANSITION
E-4	FIELD BUILT	-	-	32"X32"	1/2"X1/2" GALV. WIRE MESH	-	-	ALTERNATE NO. 2
T-1	METAL-AIRE	RH	RH	18"X18"	FIXED	-	W.E.	NOTE 1
S-1	METAL-AIRE	RL	RL-DF	30"15"	ADJUSTABLE	-	ANODIZED	ALTERNATE NO. 2

NOTES:
1) PROVIDE 18 GAUGE GALVANIZED WALL SLEEVE WITH F.D. PROVIDE GRILLE ON BOTH SIDES OF WALL.

EXHAUST FAN SCHEDULE

No.	MANUFACTURER	MODEL	CFM	E.S.P.	TYPE	RPM	MODEL			REMARKS
							H.P.	VOLT	PH	
EF-1	GREENHECK	GB-100	650	0.50	ROOF	1200	1/4	115	1	BASE BID
EF-2	GREENHECK	GB-420	8700	0.25	ROOF	275	3/4	240	1	ALTERNATE NO. 2
EF-3	GREENHECK	GB-420	8700	0.25	ROOF	275	3/4	240	1	ALTERNATE NO. 2

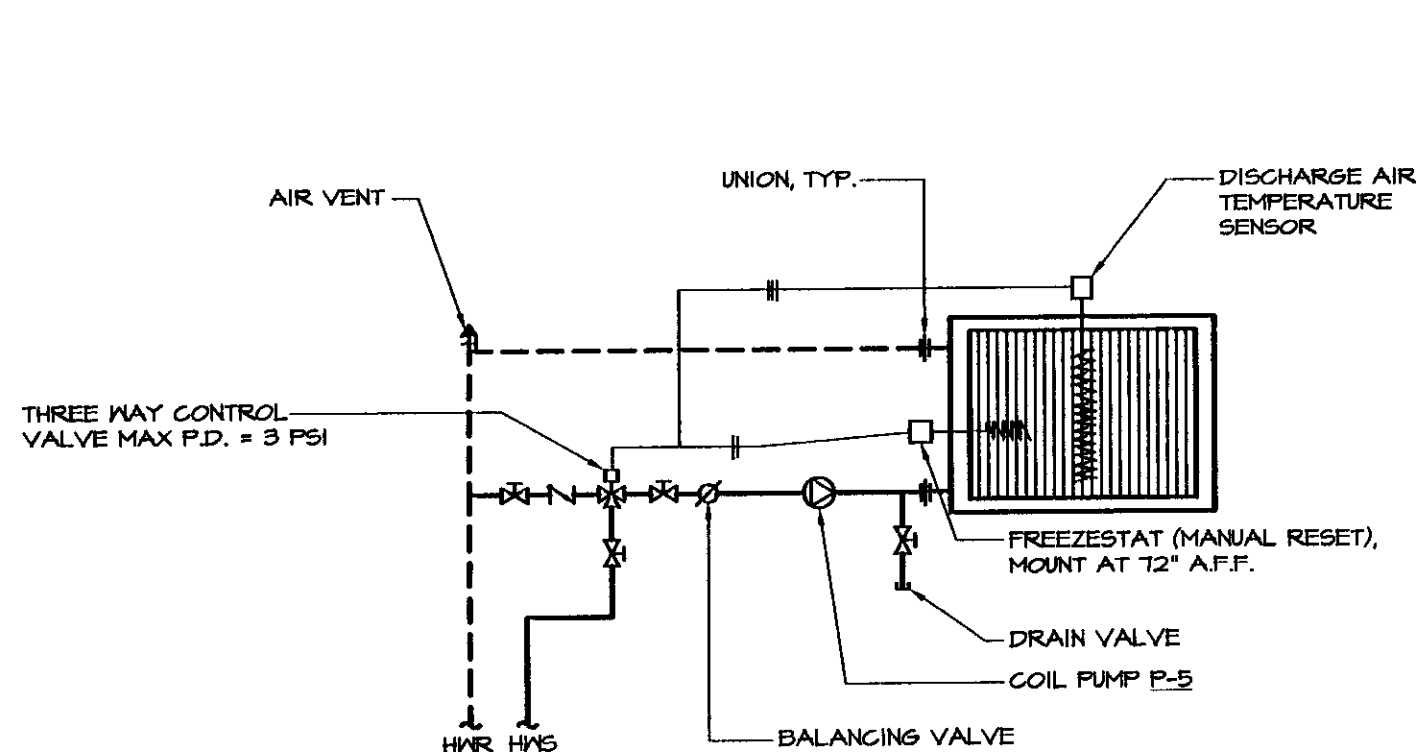
CABINET, WALL AND UNIT HEATER SCHEDULE

No.	MANUFACTURER	MODEL	SIZE	BTUH	E.M.T. (°F)	GPM	CFM	MOTOR			REMARKS
								HP	VOLT	PH	
WH-1	BEACON-MORRIS	W42	-	4,278	200	1.0	50	50W	115	1	BASE BID
UH-1	VULCAN	VV-104	-	56,500	200	6.0	1528	1/8	115	1	ALTERNATE NO. 1
UH-2	VULCAN	HV-125A	-	21,230	200	2.5	460	16W	115	1	ALTERNATE NO. 1
CH-1	VULCAN	F-1000	02	15,100	200	1.0	230	1/10	115	1	BASE BID
CH-2	VULCAN	F-1000	03	33,100	200	2.0	330	1/10	115	1	BASE BID

CIRCULATOR PUMP SCHEDULE (ALTERNATE NO. 1 ONLY)

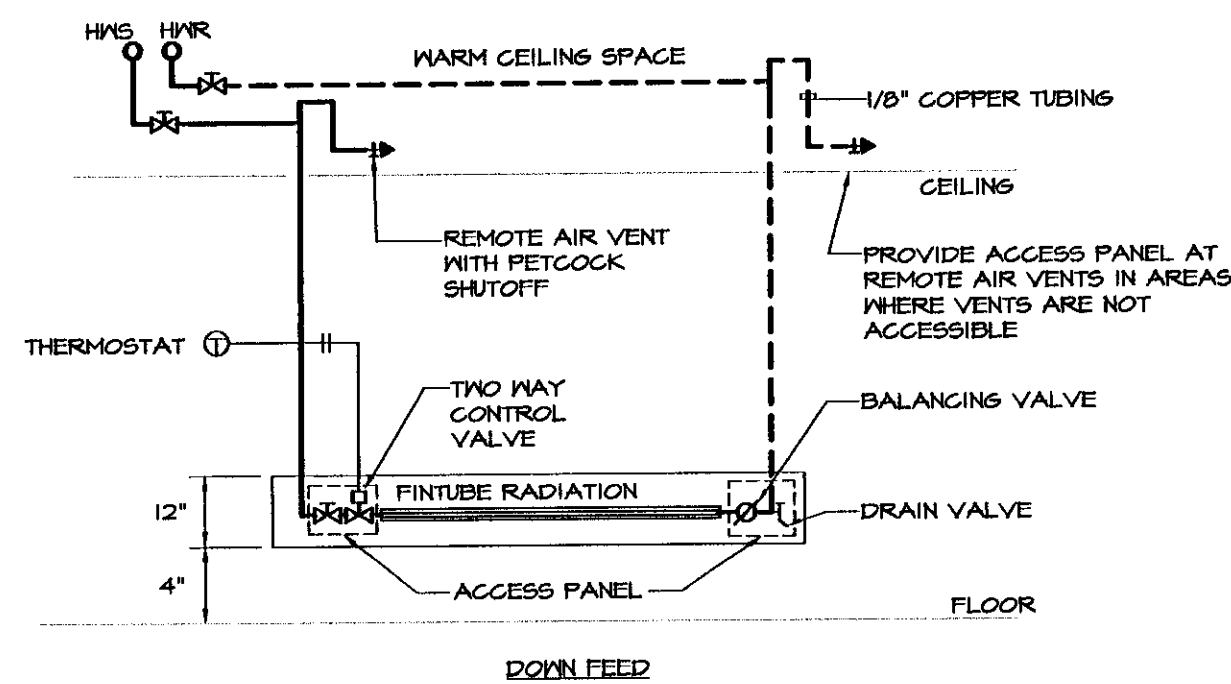
No.	MANUFACTURER	SERIES	MODEL	MIN. GPM	HEAD (FT. HD.)	MOTOR				REMARKS
						HP	VOLT	PH	RPM	
P-1	EXISTING BELL & GOSSETT	60	2X2X5 1/4	66	25	1	240	1	1750	REPAIR GARAGE
P-2	EXISTING BELL & GOSSETT	60	1X1X5 1/4	21	17	1/2	240	1	1750	EXISTING OFFICES
P-3	BELL & GOSSETT	60	2X2X7	75	35	1 1/2	240	1	1750	NEW STORAGE GARAGE ZONE
P-4	BELL & GOSSETT	60	2X2X7	75	35	1 1/2	240	1	1750	BACKUP HEATING PUMP
P-5	BELL & GOSSETT	FL	FL-36	12	30	1/6	115	1	1750	HC-1 PUMP

NOTES:
UNDER BASE BID, EXISTING PUMPS SHALL REMAIN.

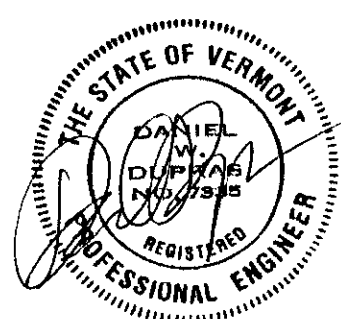


HOT WATER COIL HC-1 PIPING DETAIL
NOT TO SCALE

NOTE:
PROVIDE DUCT ACCESS PANEL ON BOTH SIDES OF HEATING COIL TO ALLOW FOR CLEANING AND SERVICE.



RADIATION PIPING DETAILS
NOT TO SCALE



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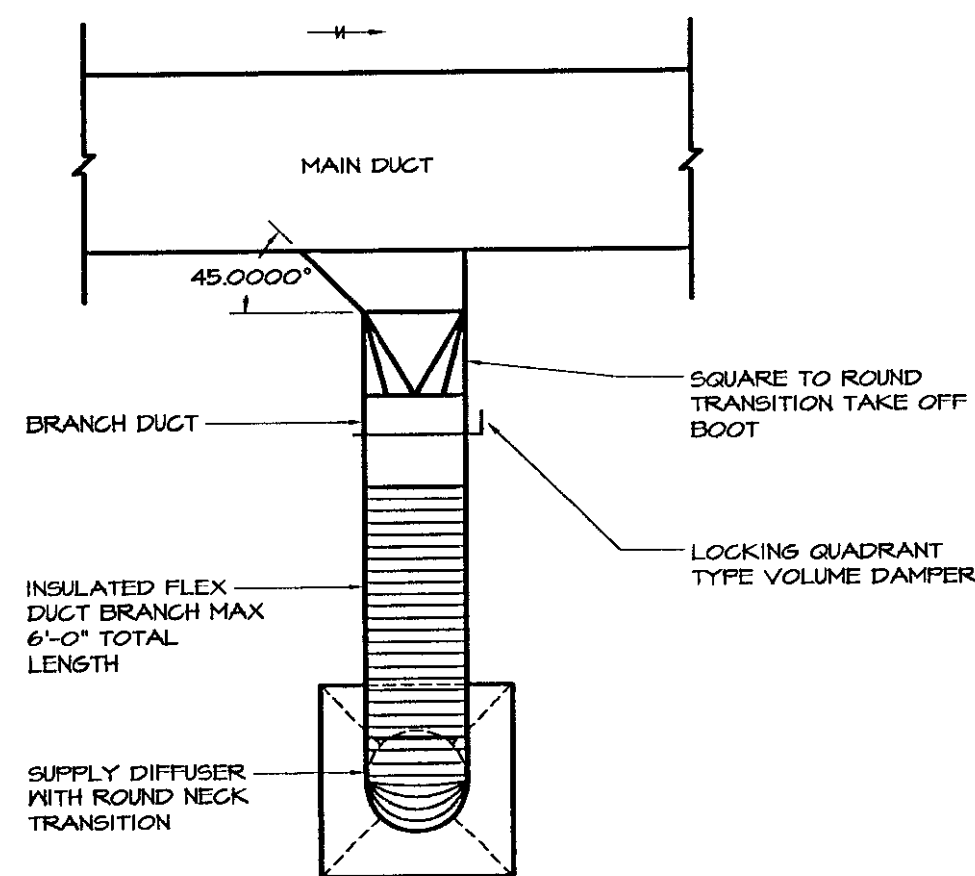
CHARLES F. LANE, P.E.
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51 KILLINGTON AVENUE,
RUTLAND, VERMONT 05701
TELEPHONE: (802)747-3346
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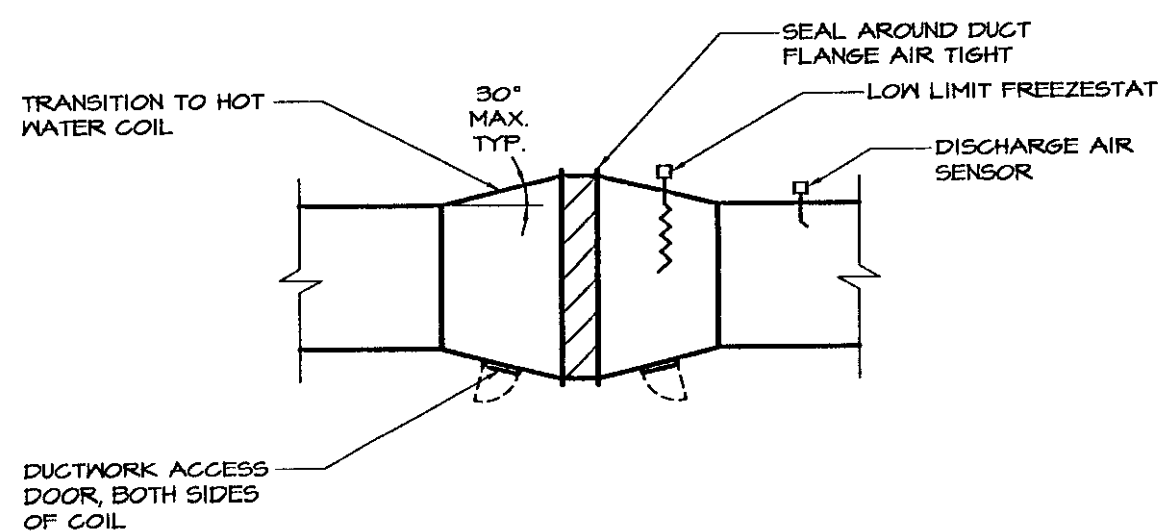
MECHANICAL SCHEDULES
AND DETAILSBENNINGTON AOT GARAGE
INTERIOR RENOVATIONS

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10

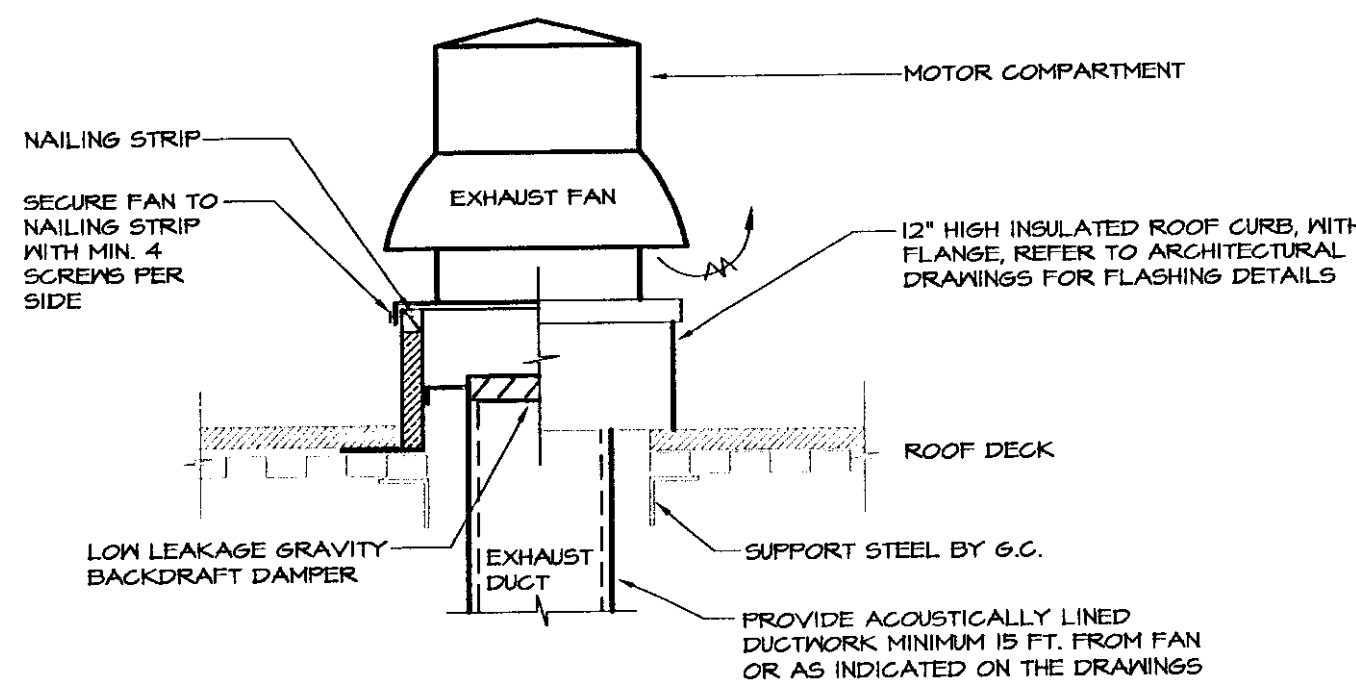
APPR: DWD DRAWN: DWD/KPC SCALE: AS NOTED PROJ. NO. 0312-07



TYPICAL DIFFUSER/REGISTER DETAIL
N.T.S.

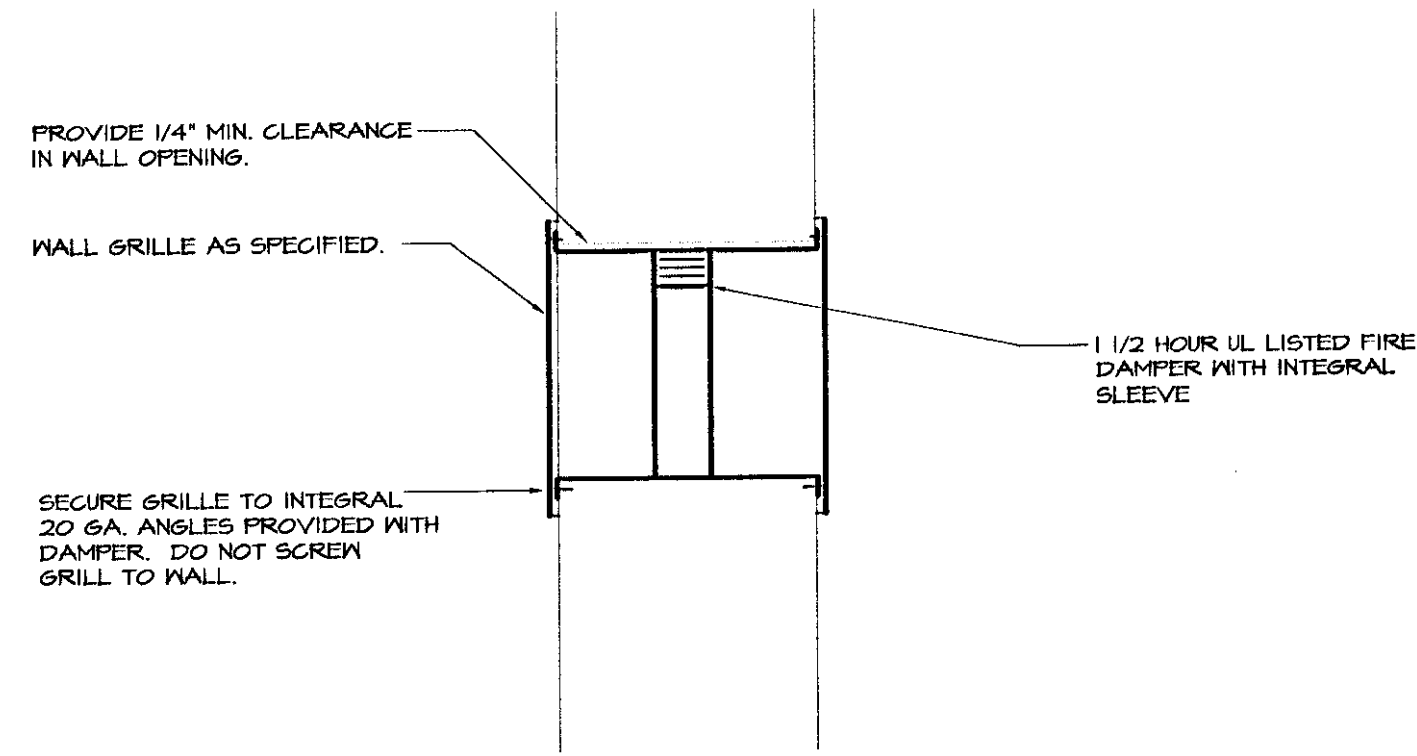


**(ALTERNATE NO. 2)
DUCT COIL INSTALLATION DETAIL**
NOT TO SCALE



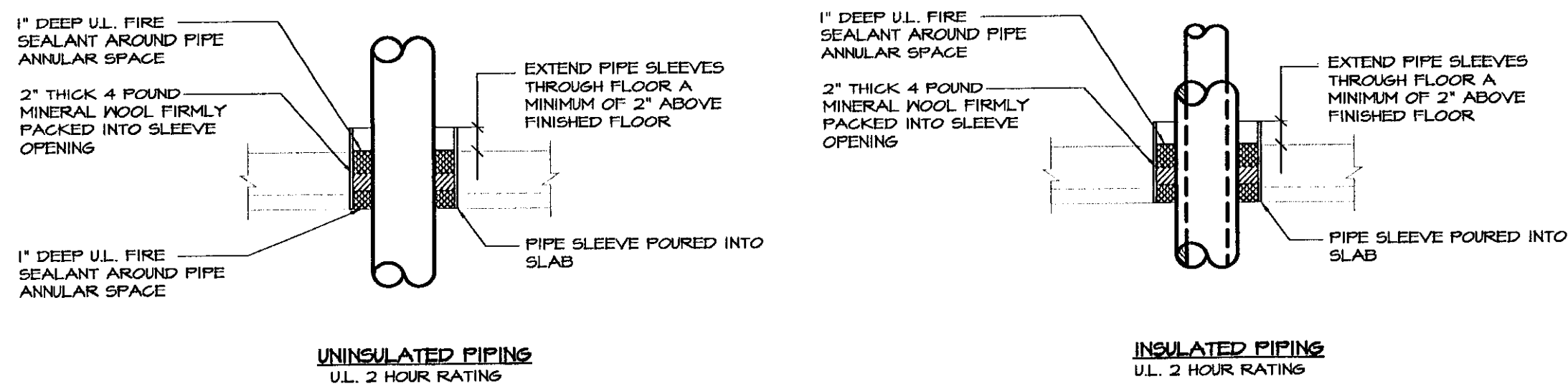
ROOFTOP EXHAUST FAN DETAIL
NOT TO SCALE

NOTES:
THE CONTRACTOR SHALL CUT/FLASH AND COUNTER FLASH EXISTING ROOF TO MAKE CURB WATERTIGHT.
ALL ROOF WORK SHALL BE DONE BY QUAKER BAY ROOFERS TO MAINTAIN ROOF WARRANTY.



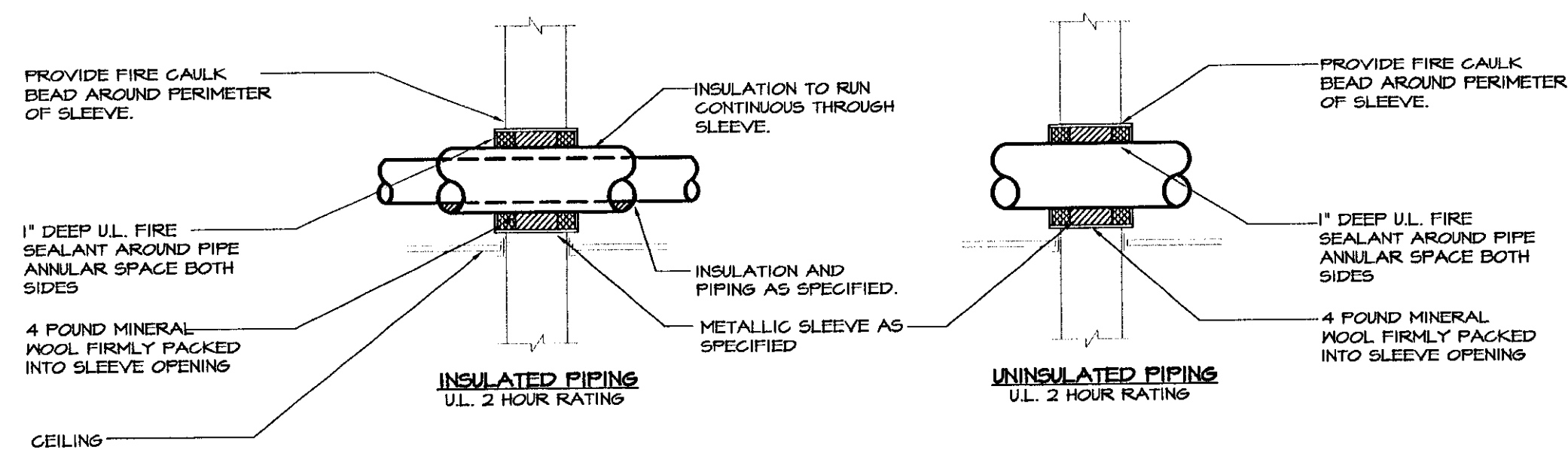
WALL GRILLE WITH FIRE DAMPER
NO SCALE

NOTE:
1) DAMPER ASSEMBLY SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURERS WRITTEN INSTRUCTIONS AND MEET UL REQUIREMENTS.



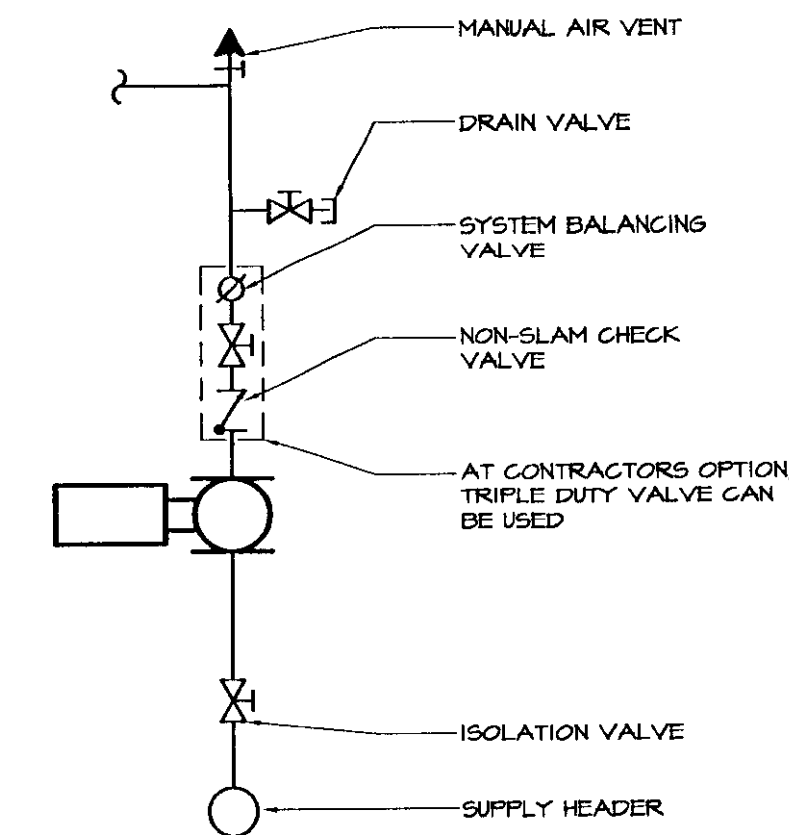
FLOOR PIPE PENETRATION DETAILS
NOT TO SCALE

NOTE:
1) FOLLOW FIRE SEALANT MANUFACTURERS WRITTEN INSTALLATION INSTRUCTIONS IN CONJUNCTION WITH REQUIREMENTS AS DETAILED.
2) ALL FLOOR PIPE PENETRATIONS SHALL BE INSTALLED PER THIS DETAIL.
3) DETAIL BASED ON STI "SPEC-SEAL" FIRE STOPPING PRODUCTS. ALTERNATE MANUFACTURERS INSTALLATION REQUIREMENTS MAY VARY.

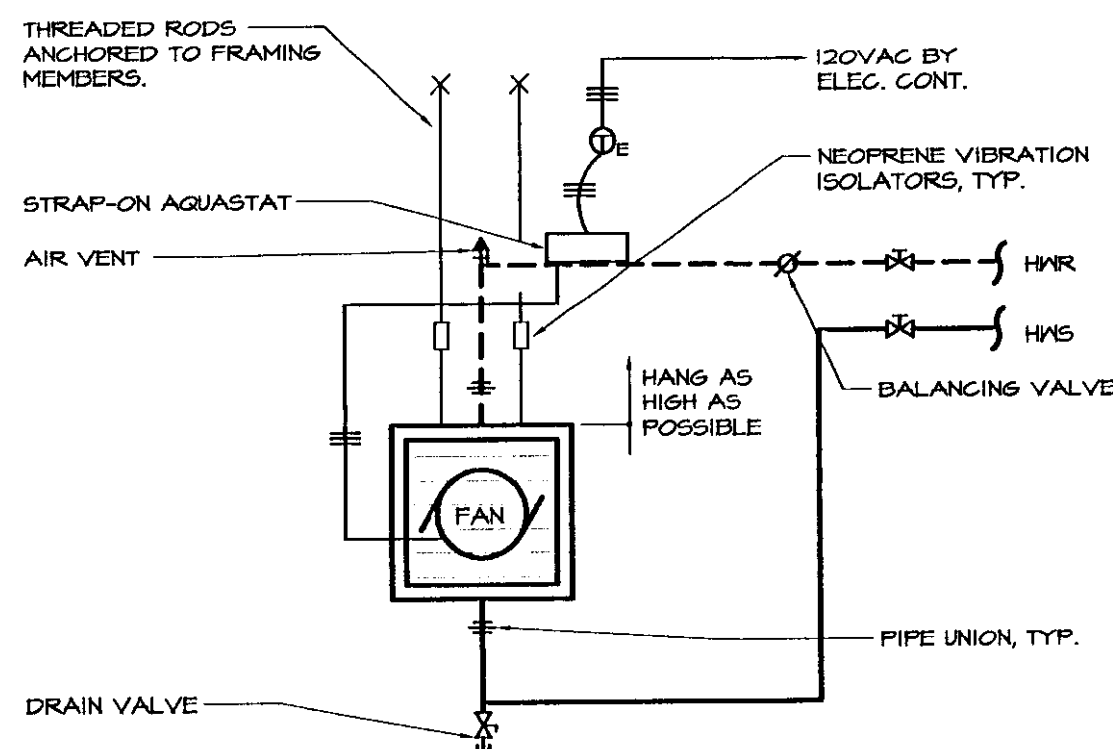


WALL PIPE PENETRATION DETAILS
NOT TO SCALE

NOTE:
1) FOLLOW FIRE SEALANT MANUFACTURERS WRITTEN INSTALLATION INSTRUCTIONS IN CONJUNCTION WITH REQUIREMENTS AS DETAILED.
2) ALL WALL PIPE PENETRATIONS SHALL BE INSTALLED PER THIS DETAIL.
3) DETAIL BASED ON STI "SPEC-SEAL" FIRE STOPPING PRODUCTS. ALTERNATE MANUFACTURERS INSTALLATION REQUIREMENTS MAY VARY.

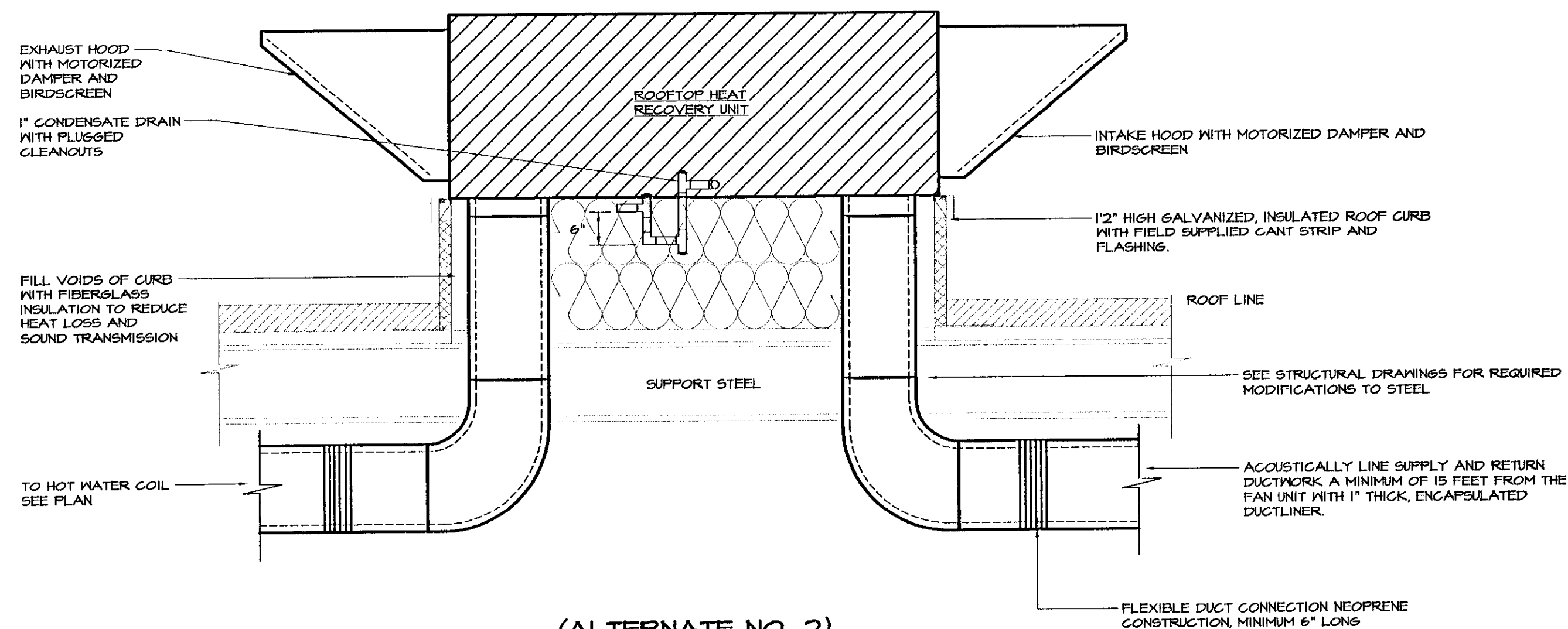


**(ALTERNATE NO. 2)
IN-LINE PUMP PIPING DETAIL**
NOT TO SCALE



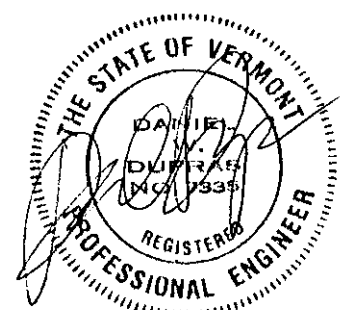
UNIT HEATER PIPING DETAIL
NO SCALE

NOTE:
PIPING SIMILAR FOR CABINET HEATERS AND WALL HEATERS.



**(ALTERNATE NO. 2)
ROOFTOP HEAT RECOVERY UNIT DETAIL**
NOT TO SCALE

NOTES:
THE CONTRACTOR SHALL CUT/FLASH AND COUNTER FLASH EXISTING ROOF TO MAKE CURB WATERTIGHT.
ALL ROOF WORK SHALL BE DONE BY QUAKER BAY ROOFERS TO MAINTAIN ROOF WARRANTY.



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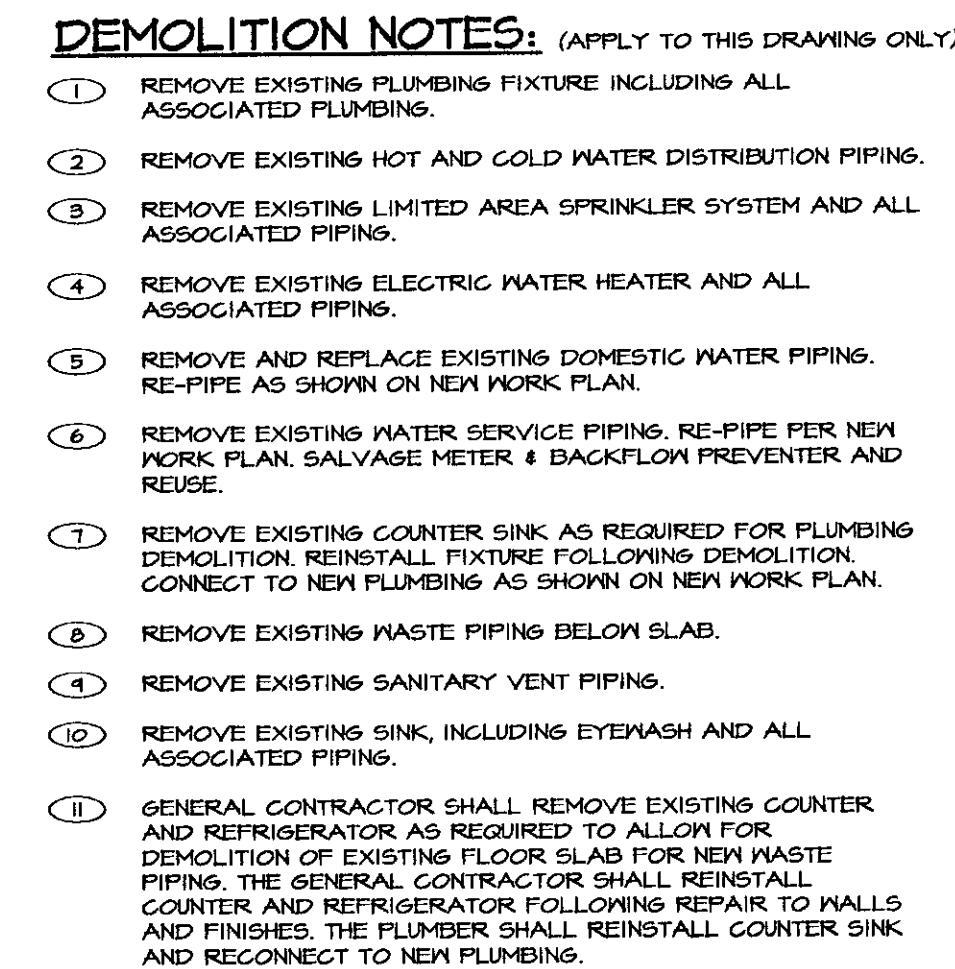
51 KILLINGTON AVENUE,
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MECHANICAL DETAILS

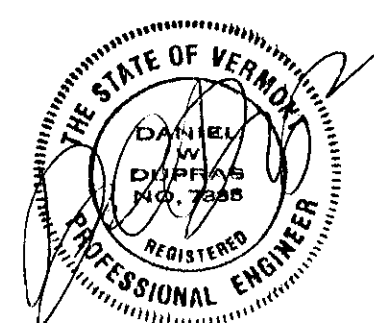
**BENNINGTON AOT GARAGE
INTERIOR RENOVATIONS**

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11**

APPR: DND DRAWN: DND/KPC SCALE: AS NOTED PROJ. NO. 0312-07



PLUMBING LEGEND			
	SANITARY PIPING		WATER HAMMER ARRESTOR
	VENT PIPING		TEMPERATURE GAUGE
	EXISTING SANITARY PIPING		IN-LINE PUMP
	EXISTING VENT PIPING		PIPE UNION
	EXISTING PIPING TO BE REMOVED		PIPE EXPANSION LOOP
	COLD WATER PIPING		BOTTOM PIPE CONNECTION
	HOT WATER PIPING		TOP PIPE CONNECTION
	EXISTING COLD WATER PIPING		PRESSURE RELIEF VALVE
	EXISTING HOT WATER PIPING		CLEANOUT
	EXISTING LIMITED AREA FIRE PROTECTION PIPING TO BE REMOVED		SIDE CLEANOUT
	EXISTING SPRINKLER HEAD TO BE REMOVED		FLOOR CLEANOUT
	CHECK VALVE		FLOOR DRAIN
	BALANCE VALVE		PRESSURE REDUCING VALVE
	DRAIN VALVE		WATER METER
	BACKFLOW PREVENTER		ACCESS PANEL
	PIPE STRAINER		ABOVE FINISHED FLOOR
	STRAINER w/ BLOWDOWN		MECHANICAL CONTRACTOR
	PIPE RISER		PLUMBING CONTRACTOR
	BALL VALVE		ELECTRICAL CONTRACTOR
	PIPE DROP		GENERAL CONTRACTOR
	PIPE CAP		NORMALLY CLOSED
	PRESSURE GAUGE		CONNECT TO EXISTING
	FIXTURE STOP		VENT THROUGH ROOF
	DEMOLITION NOTE TAG		EXISTING PLUMBING FIXTURE TO REMAIN
	DRAFTING NOTE TAG		EXISTING PLUMBING FIXTURE TO BE REMOVED
	PLUMBING FIXTURE TAG		
	FLOOR DRAIN TAG		

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NO.	ISSUED FOR	DATE



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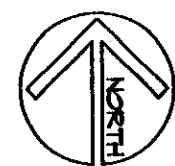
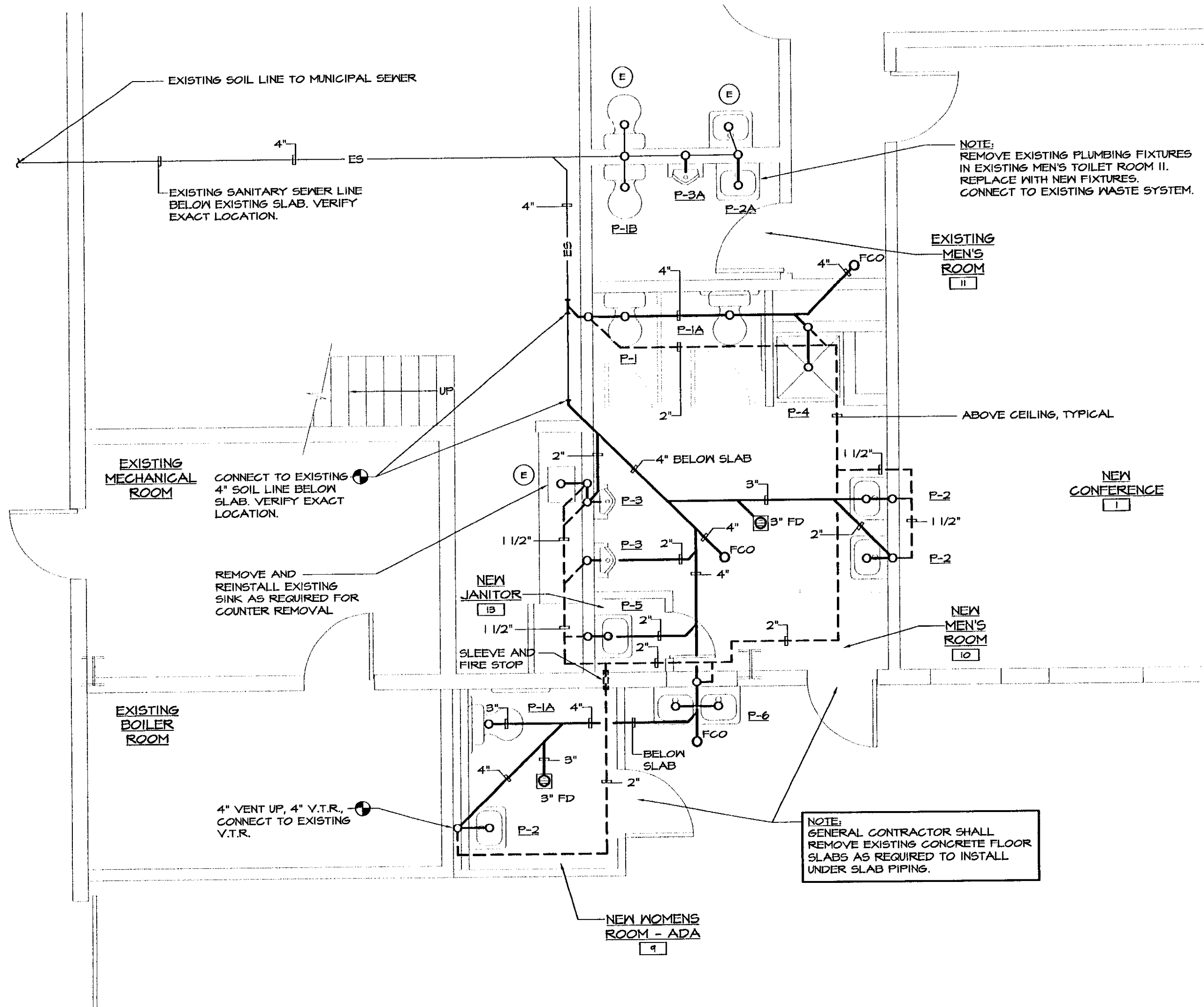
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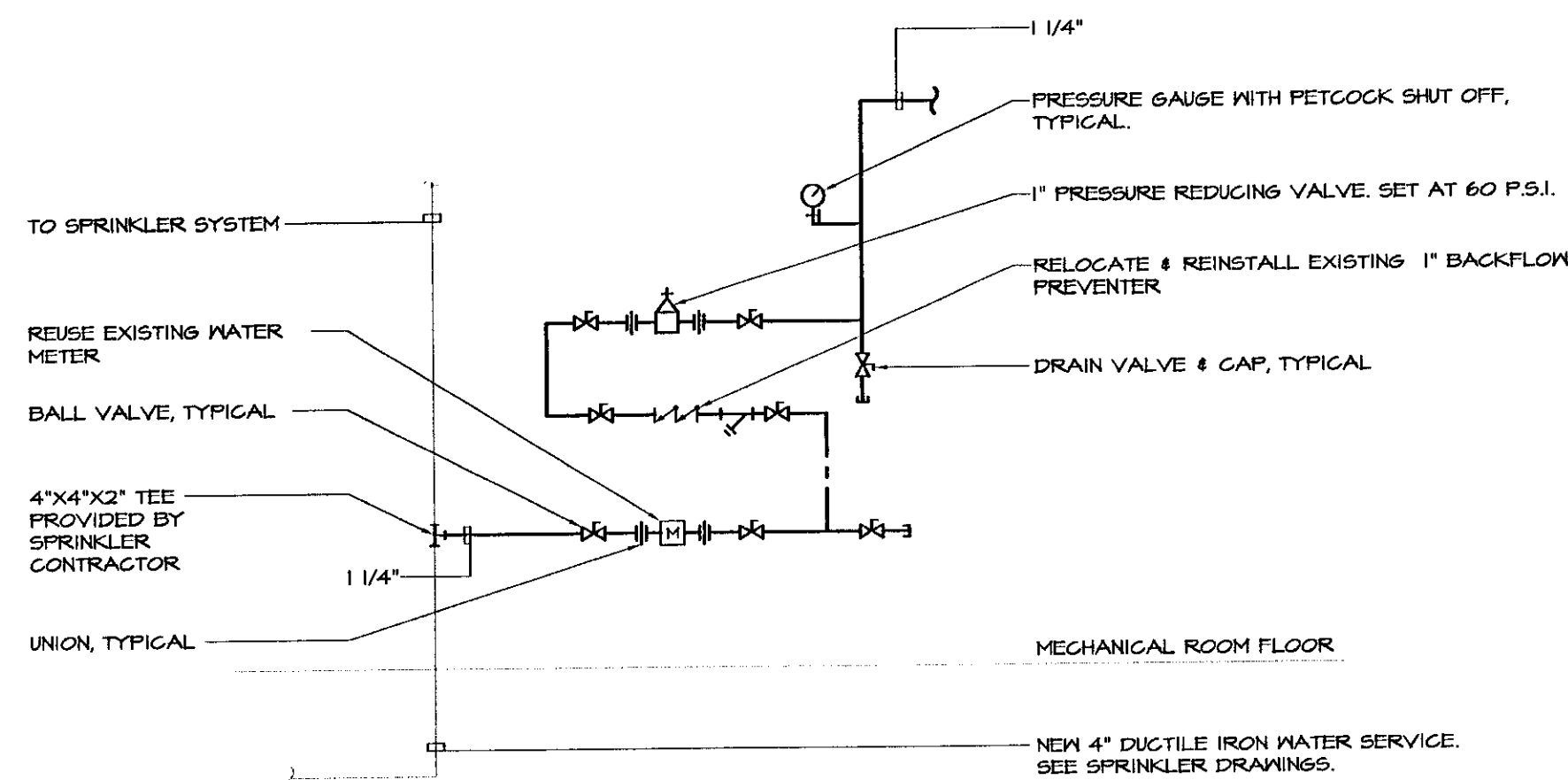
TELEPHONE: (802)747-3346
FAX/MODEM: (802)747-3356

FIRST FLOOR PLAN PLUMBING DEMOLITION				P 1
BENNINGTON AOT GARAGE INTERIOR RENOVATIONS				
APPR.:	DWD	DRAWN: DWD/KFC	SCALE: AS NOTED	PROJ. NO. 0812-07

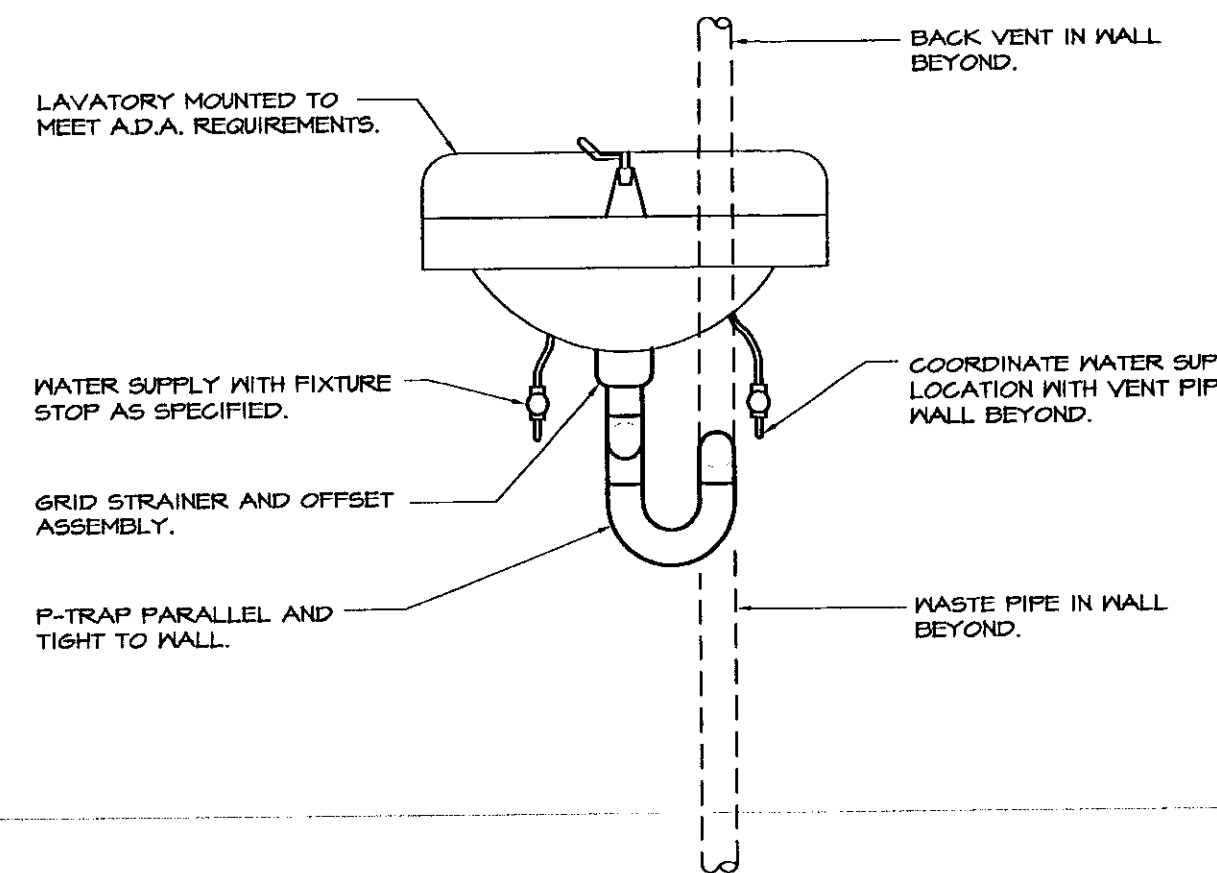
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PARTIAL MAIN FLOOR PLAN - SANITARY WASTE AND VENT
SCALE: 1/4"=1'-0"

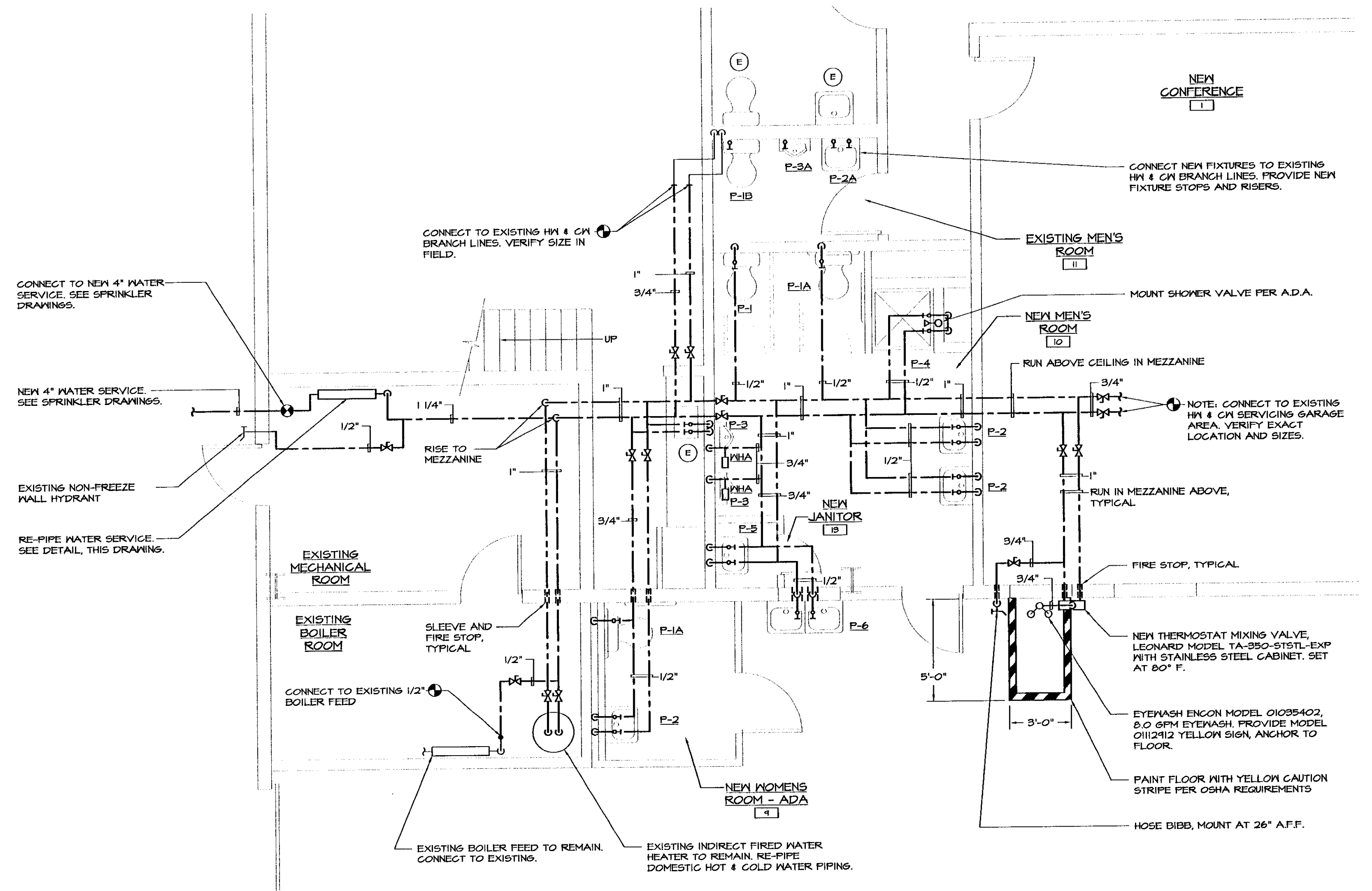


WATER SERVICE ENTRANCE DETAIL
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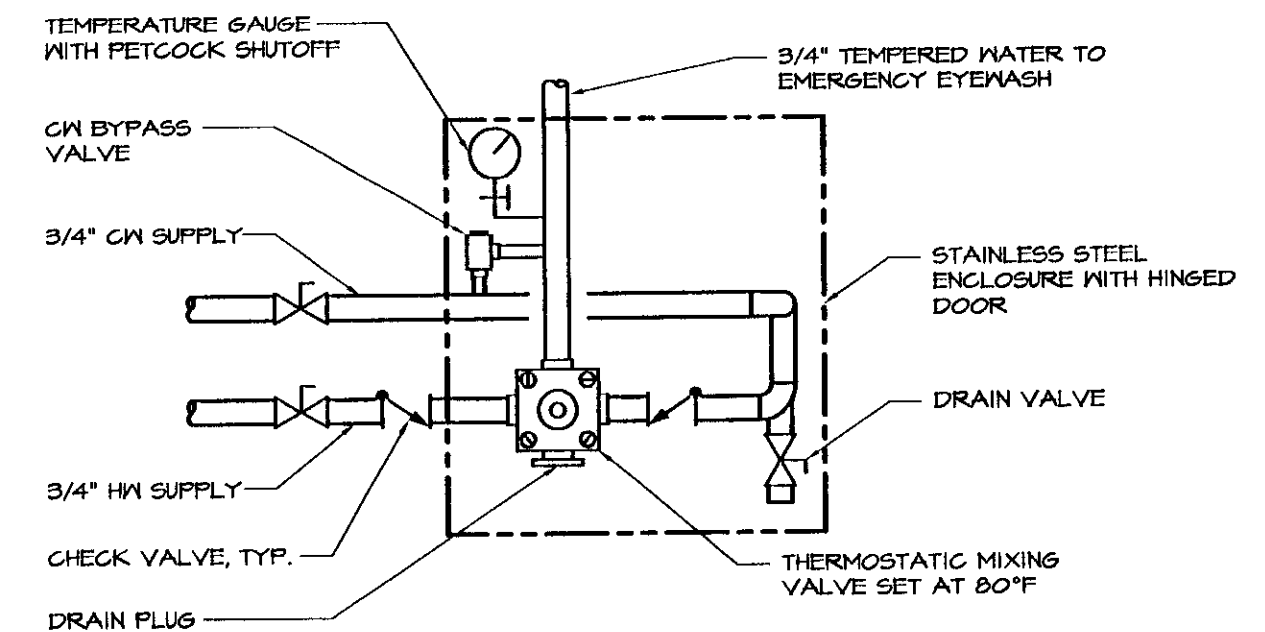


HANDICAPPED LAVATORY PIPING DETAIL
NOT TO SCALE

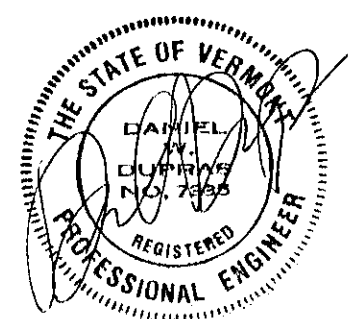
- NOTES:
- 1) ALL HANDICAPPED ACCESSIBLE LAVATORIES TO BE PIPED AS DETAILED, SAME FOR DROP IN OR WALL MOUNT LAVS.
 - 2) PROVIDE VINYL INSULATION KIT AS SPECIFIED ON ALL EXPOSED PIPING TO MEET A.D.A. REQUIREMENTS.



PARTIAL MAIN FLOOR PLAN - DOMESTIC WATER
SCALE: 1/4"=1'-0"



EYEWASH MIXING VALVE DETAIL
NOT TO SCALE



LANE ASSOCIATES
CONSULTING ENGINEERS, P.C.

HEATING, VENTILATION, & AIR CONDITIONING,
PLUMBING, FIRE PROTECTION, & ELECTRICAL

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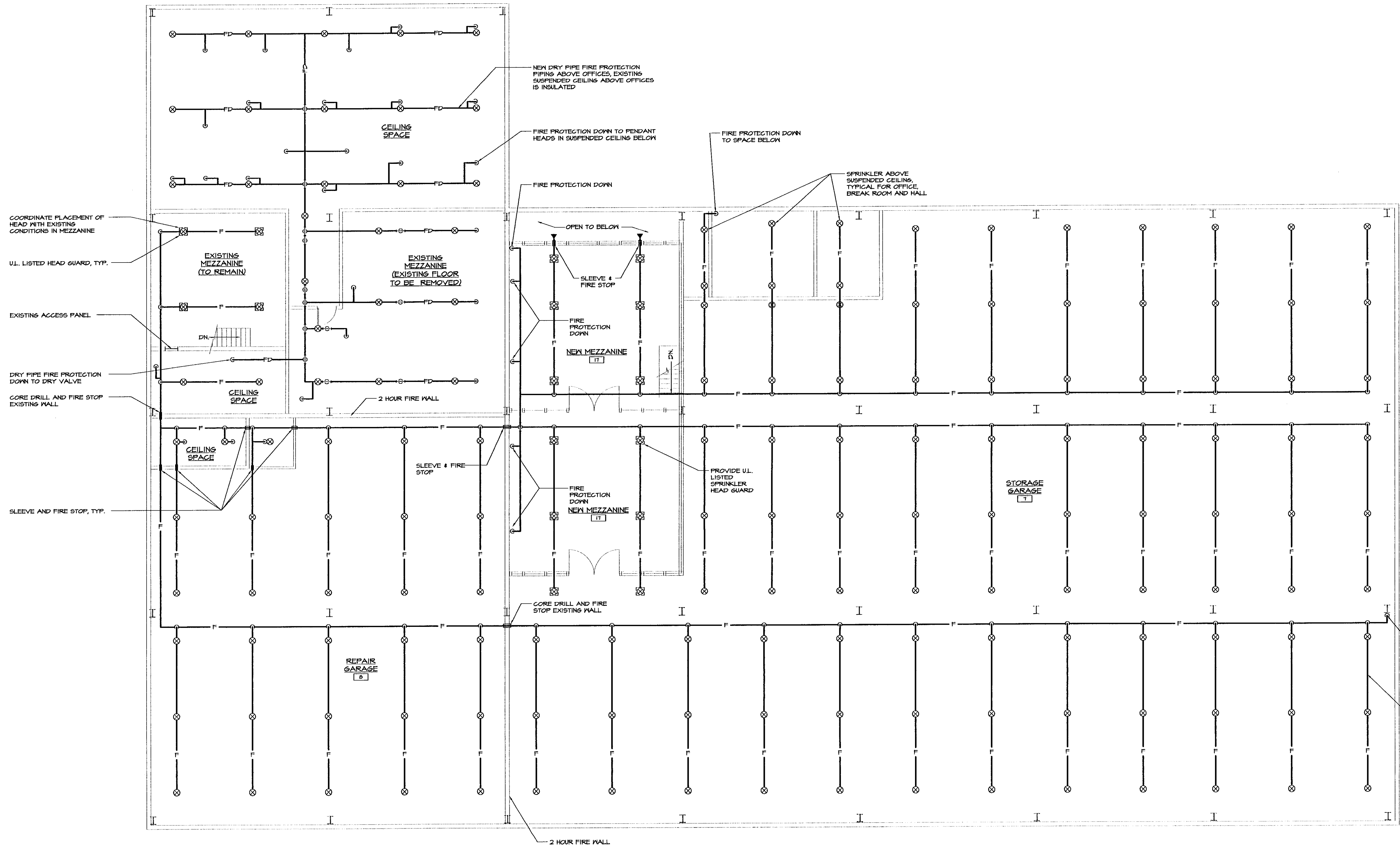
51 KILLINGTON AVENUE,
RUTLAND, VERMONT 05701
TELEPHONE: (802)747-3346
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**PARTIAL MAIN FLOOR PLAN -
NEW PLUMBING**

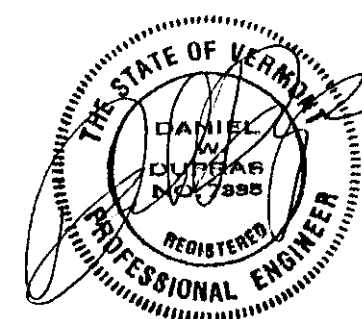
**BENNINGTON AOT GARAGE
INTERIOR RENOVATIONS**

APPR: DWD DRAWN: DWD/KFC SCALE: AS NOTED PROJ. NO. 0312-01

**P
2**



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



I	BIDDING	1/19/2004
NO.	ISSUED FOR	DATE



HEATING, VENTILATION, & AIR CONDITIONING,
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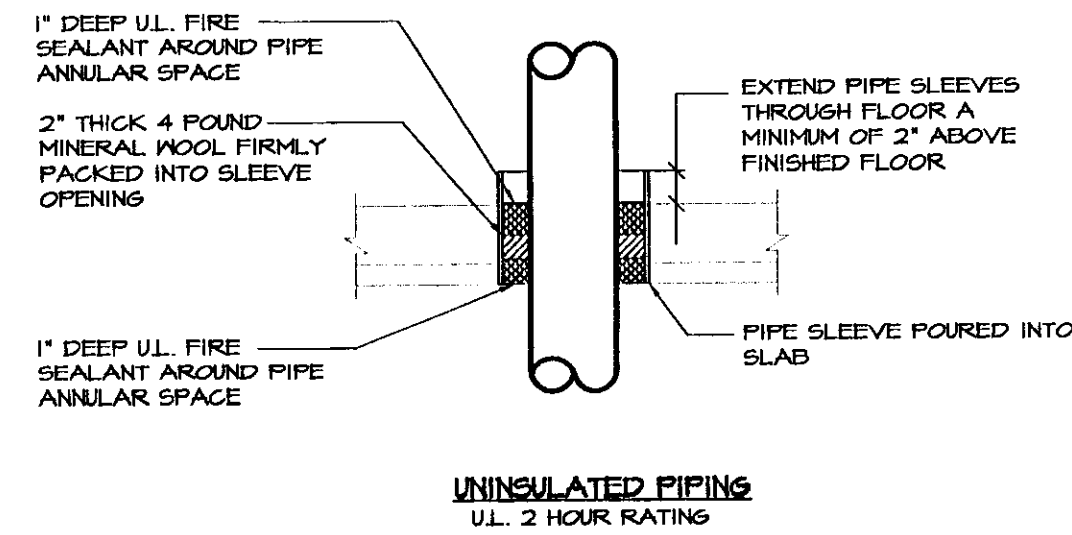
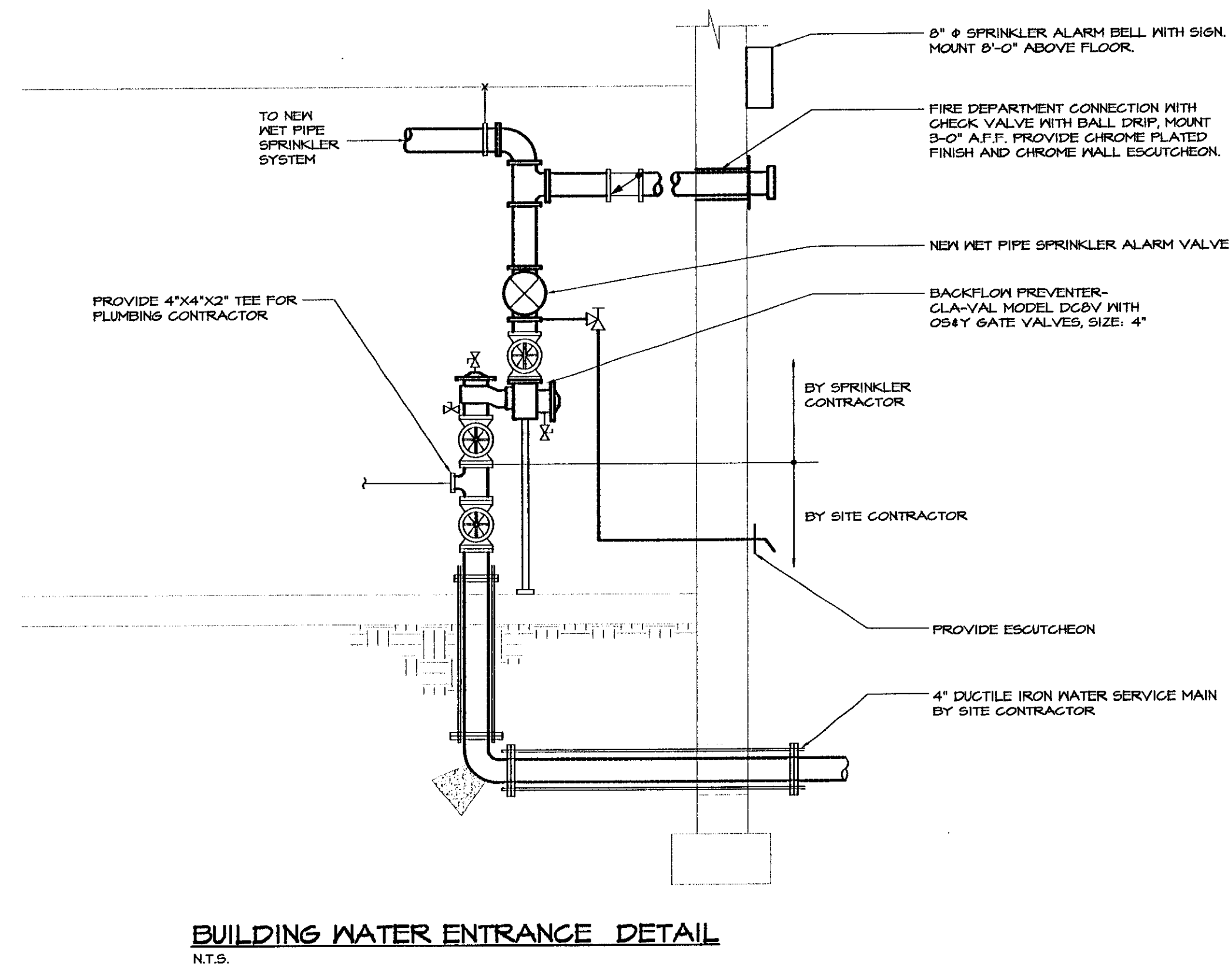
51 KILLINGTON AVENUE,
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MEZZANINE FLOOR PLAN
FIRE PROTECTION

BENNINGTON AOT GARAGE INTERIOR RENOVATIONS

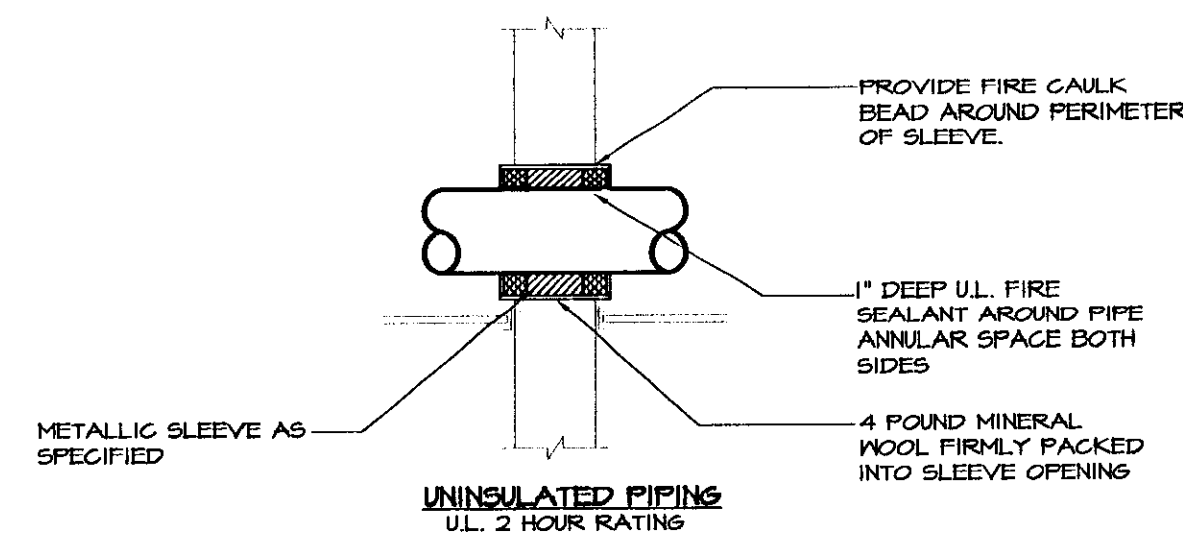
APPR:	DWD	DRAWN:	DWD/KPC	SCALE:	AS NOTED	PROJ. NO.	0312-07
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FP2



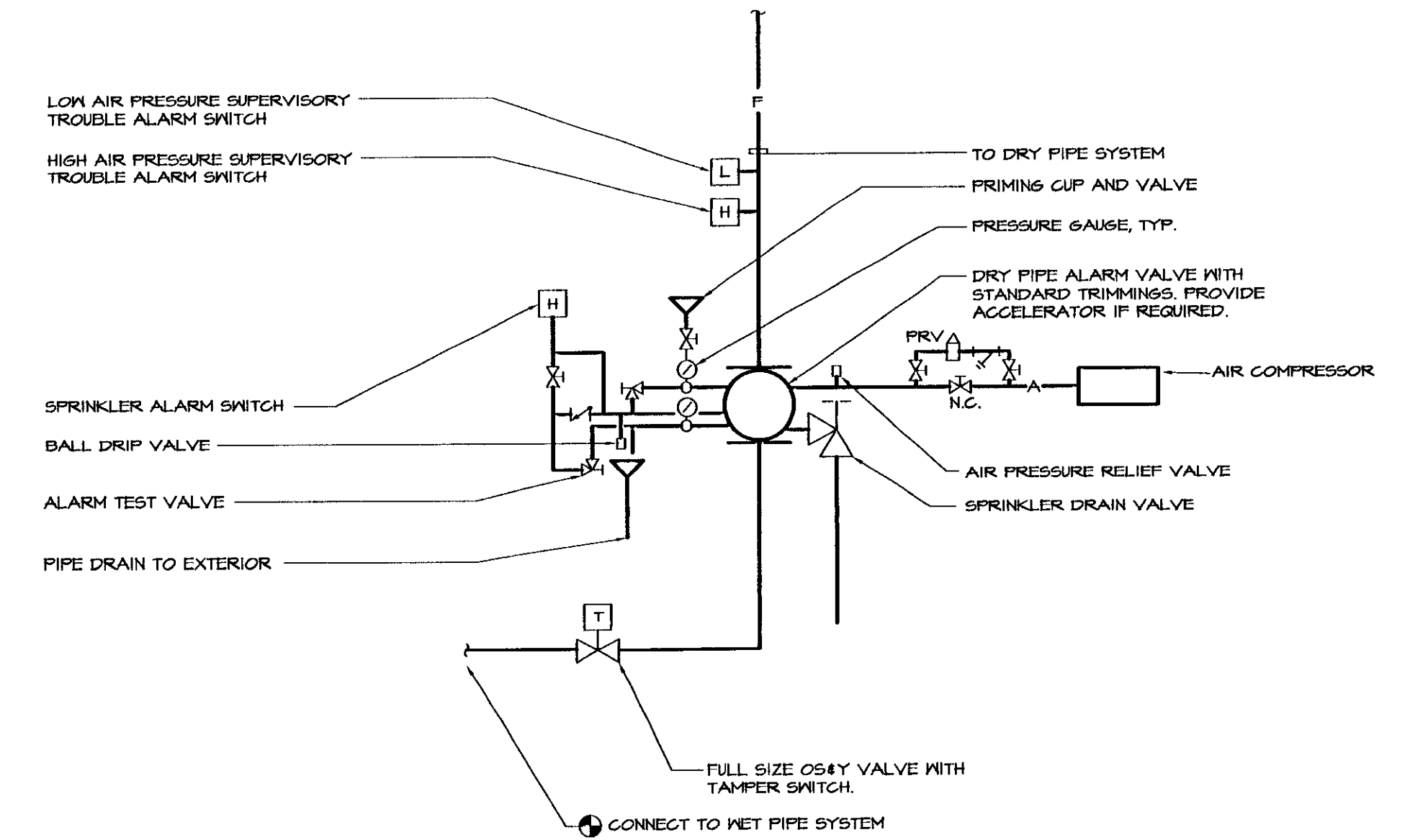
FLOOR PIPE PENETRATION DETAILS

NOTE:
1) FOLLOW FIRE SEALANT MANUFACTURERS WRITTEN INSTALLATION INSTRUCTIONS IN CONJUNCTION WITH REQUIREMENTS AS DETAILED.
2) ALL FLOOR PIPE PENETRATIONS SHALL BE INSTALLED PER THIS DETAIL.
3) DETAIL BASED ON STI "SPEC-SEAL" FIRE STOPPING PRODUCTS, ALTERNATE MANUFACTURERS INSTALLATION REQUIREMENTS MAY VARY.



WALL PIPE PENETRATION DETAILS

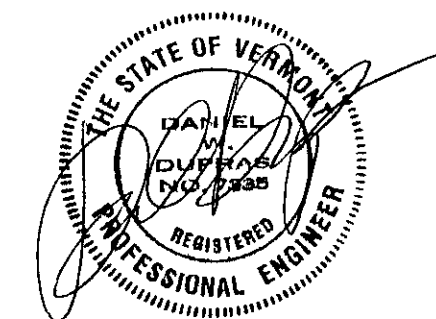
NOTE:
1) FOLLOW FIRE SEALANT MANUFACTURERS WRITTEN INSTALLATION INSTRUCTIONS IN CONJUNCTION WITH REQUIREMENTS AS DETAILED.
2) ALL WALL PIPE PENETRATIONS SHALL BE INSTALLED PER THIS DETAIL.
3) DETAIL BASED ON STI "SPEC-SEAL" FIRE STOPPING PRODUCTS, ALTERNATE MANUFACTURERS INSTALLATION REQUIREMENTS MAY VARY.



DRY PIPE VALVE PIPING DETAIL

FIRE PROTECTION LEGEND

— F —	NEW WET PIPE FIRE PROTECTION PIPING	— FD —	NEW DRY PIPE FIRE PROTECTION PIPING	— S —	STORZ FIRE DEPT. CONNECTION
— R —	PIPE RISER	— N —	BACKFLOW PREVENTER, RPZ=REDUCED PRESSURE ZONE	— C —	CHECK VALVE
— D —	PIPE DROP	— M.C. —	MECHANICAL CONTRACTOR	— P.C. —	PLUMBING CONTRACTOR
— U —	PIPE UNION	— N.I.C. —	NOT IN CONTRACT	— G.C. —	GENERAL CONTRACTOR
⊙	FENDANT HEAD				
⊕	UPRIGHT HEAD				
▶	SIDEWALL HEAD				
⊕	ALARM VALVE				
⊕	GATE VALVE				
⊕	TAMPER SWITCH				
⊕	FLOW SWITCH				



HEATING, VENTILATION, & AIR CONDITIONING,
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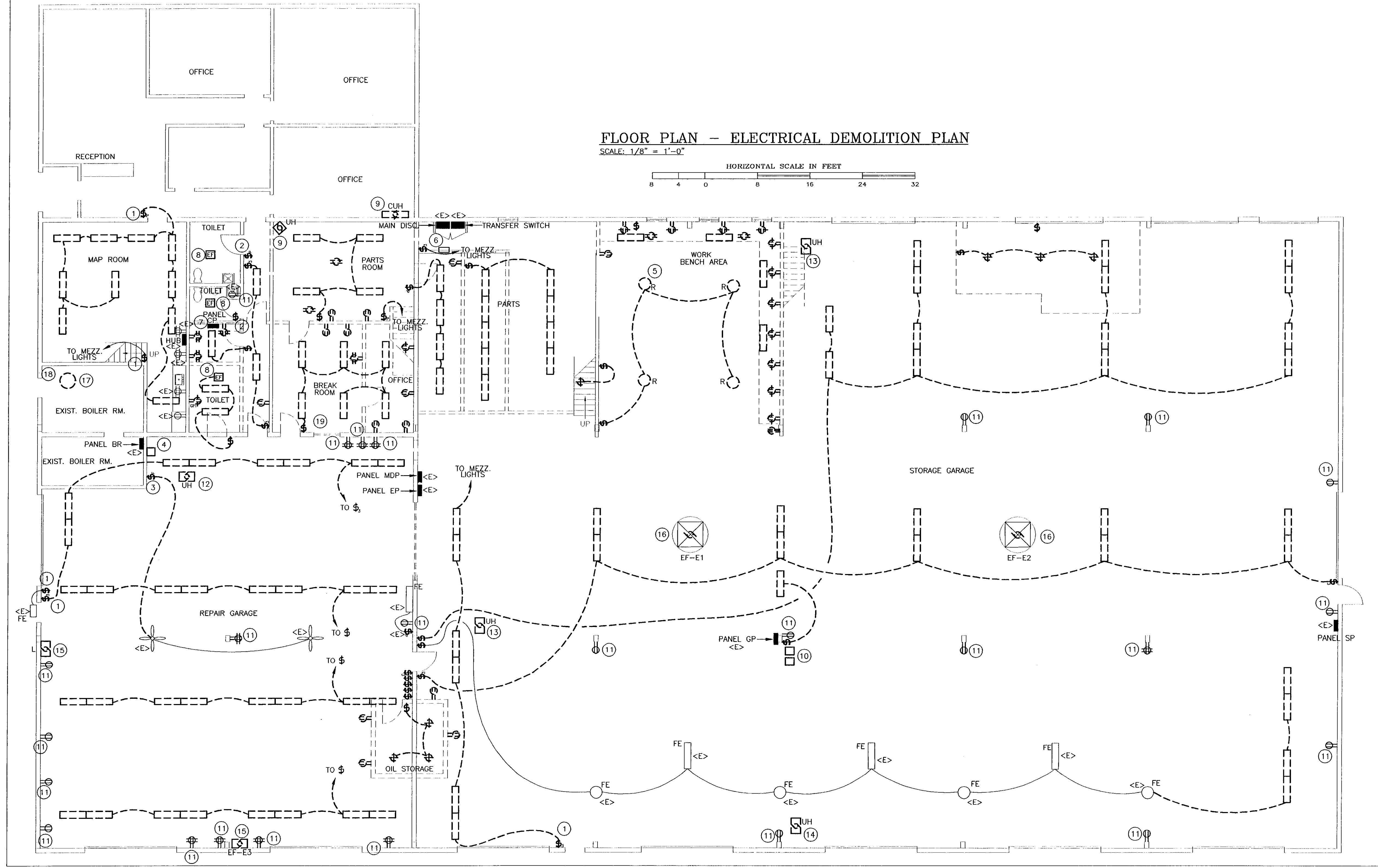
51 KILLINGTON AVENUE,
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TELEPHONE: (802)747-3346
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FIRE PROTECTION LEGEND AND DETAILS

BENNINGTON AOT GARAGE INTERIOR RENOVATIONS

FP3

APPR: DWD DRAWN: DWD/KFC SCALE: AS NOTED PROJ. NO. 0912-07



ELECTRICAL LEGEND	
	FLUORESCENT FIXTURE
	LIGHT FIXTURE
	EXIT LIGHT
	EMERGENCY LIGHT
	SWITCH - SINGLE POLE
	SWITCH - 3-WAY
	SWITCH - 4-WAY
	SWITCH - FAN SPEED CONTROL
	SWITCH - MOMENTARY CONTACT, CENTER OFF
	MOTOR STARTER PROV. BY MC, INSTALLED BY EC
	SAFETY DISCONNECT PROV. AND INSTALLED BY EC, PANEL
	BRANCH CIRCUIT
	JUNCTION BOX
	DUPLEX RECEPTACLE
	QUAD RECEPTACLE
	DUPLEX RECEPTACLE - COUNTER HEIGHT
	DUPLEX RECEPTACLE-GFCI PROTECTED
	WEATHERPROOF, NEMA 3R RATED
	ABOVE FINISH FLOOR
	ELECTRICAL CONTRACTOR (DIVISION 16)
	MECHANICAL CONTRACTOR (DIVISION 15)
	GENERAL CONTRACTOR EXISTING
	EQUIPMENT SUPPLIER
	TYPICAL OF ALL
	NATIONAL ELECTRIC CODE
	AUTOMATIC TRANSFER SWITCH
	MOTOR
	MOTOR-OPERATED DAMPER
	PRESSURE SWITCH
	FIRE ALARM HORN, NUMBER INDICATES CANDELA
	FIRE ALARM STROBE, NUMBER INDICATES CANDELA
	FIRE ALARM MANUAL PULL STATION - 48" AFF
	120V THERMOSTAT PROVIDED BY MC, INSTALLED BY EC, MOUNT 54" AFF
	PHONE LOCATION (4" SQUARE BOX WITH 3/4" CONDUIT TO TELEPHONE TERMINATION AREA. PROVIDE EXTENSION RINGS (MUD RINGS) AS REQUIRED. (2) 4-PR. CAT. 5 TO EACH LOCATION, WITH 2-PORT JACK.
	SAME AS ABOVE, MOUNT @ 48" AFF
	FIRE ALARM SPRINKLER TAMPER SWITCH
	FIRE ALARM SPRINKLER PRESSURE SWITCH
	FIRE ALARM SPRINKLER FLOW SWITCH
	DOOR OPERATOR CONTROL PUSH BUTTON
	RADIO LOCATION, (4" SQUARE BOX WITH 3/4" CONDUIT TO RADIO TERMINATION AREA. ALLOW 100' EACH
	MAGNETIC DOOR HOLDER
	FIRE ALARM CONTROL PANEL
	SYNCHRONIZATION MODULE, PROVIDE AS REQUIRED
	ITEMS TO BE DISCONNECTED & REMOVED (DEMOLISHED)

- KEYED NOTES:**
- REMOVE LIGHTING IN THIS ROOM & WALL SWITCH. REUSE BOX & EXISTING CIRCUIT FOR NEW LIGHTING. PROVIDE NEW SWITCH.
 - PROVIDE NEW LIGHT SWITCH FOR EXISTING BATHROOM LIGHTING TO REMAIN. PROVIDE NEW STAINLESS STEEL PLATE.
 - REMOVE & RELOCATE FAN SPEED CONTROL SWITCH.
 - FUEL TANK MONITORING DEVICE, REWIRE AND RELOCATE, REFER TO NEW ELECTRICAL PLANS.
 - REMOVE EXISTING TYPE "R" FIXTURES, REWIRE AND RELOCATE, REFER TO NEW LIGHTING PLAN.
 - EXISTING ALARM SYSTEM, POWER SUPPLY, & PHONE JACK. REMOVE FOR NEW WALL CONSTRUCTION. REWIRE AND RELOCATE ON NEW WALL, REFER TO NEW POWER PLANS.
 - EXISTING PANEL "CP" SHALL BE REMOVED AND RELOCATED, REFER TO NEW POWER PLANS. RELOCATE EXISTING TELEPHONE & DATA WIRING TO NEW "HUB" LOCATION.
 - DISCONNECT & REMOVE ALL WIRING ASSOCIATED WITH EXHAUST FAN.
 - DISCONNECT & REMOVE ALL WIRING ASSOCIATED WITH UNIT HEATERS.
 - DISCONNECT & REMOVE EXISTING EXHAUST FAN CONTROLS. REWIRE FANS AS SHOWN ON NEW POWER PLAN. RE-USE MOTOR STARTERS.
 - REPLACE EXISTING RECEPTACLE(S) WITH GFI-PROTECTED RECEPTACLE.
 - DISCONNECT EXISTING UNIT HEATER FOR CONSTRUCTION. RE-CONNECT AT NEW LOCATION, REFER TO NEW POWER PLANS.
 - BASE BID: DISCONNECT EXISTING UNIT HEATER FOR CONSTRUCTION. RE-CONNECT AT NEW LOCATION, REFER TO NEW POWER PLANS. ALT. #1: DISCONNECT & REMOVE ALL WIRING ASSOCIATED WITH UNIT HEATER.
 - BASE BID: UNIT HEATER REMAINS. ALT. #1: DISCONNECT & REMOVE ALL WIRING ASSOCIATED WITH UNIT HEATER.
 - BASE BID: EXHAUST FAN & LOUVER REMAINS. ALT. #2: DISCONNECT & REMOVE ALL WIRING ASSOCIATED WITH EXHAUST FAN & LOUVER.
 - BASE BID: EXHAUST FANS REMAIN. ALT. #2: DISCONNECT & REWIRE NEW EXHAUST FANS & CONTROLS, REFER TO NEW POWER PLANS.
 - DISCONNECT & REMOVE ALL WIRING ASSOCIATED WITH HOT WATER HEATER.
 - INCOMING WATER SERVICE LOCATION. NEW PIPING BROUGHT INTO THE BUILDING. PROPERLY GROUND & BOND ELECTRICAL SERVICE TO NEW WATER ENTRANCE.
 - EXISTING WEATHER MONITORING COMPUTER LOCATION. DISCONNECT COAX CABLE & EXTEND TO NEW LOCATION. COORD ALL WORK WITH CABLE SERVICE PROVIDER. REFER TO NEW POWER PLANS.

- GENERAL NOTES:**
- EQUIPMENT AND MATERIALS REMOVED OR DEMOLISHED AND NOT TO BE REINSTALLED BY THE EC SHALL BE CLASSIFIED BY THE OWNER AS SALVAGE OR SCRAP. THOSE CLAIMED BY THE OWNER SHALL BE DELIVERED TO THE OWNER BY THE EC WHERE DIRECTED AT THE SITE. THOSE NOT CLAIMED BY THE OWNER SHALL BECOME PROPERTY OF THE EC AND SHALL BE LEGALLY REMOVED FROM THE SITE AND PREMISES.
 - ANY PLACE WHERE THE CONTRACTOR PENETRATES, CUTS AND/OR REMOVES WALLS, CONTRACTOR IS TO REPLACE, PATCH AND PAINT WALLS TO ORIGINAL FINISHES.
 - FIELD VERIFY ALL DIMENSIONS BEFORE COMMENCEMENT OF WORK. NOTIFY ENGINEER OF ANY ERRORS. CONTRACTOR IS RESPONSIBLE FOR INSPECTING THE FACILITY PRIOR TO BID DATE. NO ADDITIONAL COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR FAILURE TO EXAMINE EXISTING CONDITIONS.
 - ALL ITEMS SHOWN SHALL BE COMPLETELY REMOVED & PROPERLY DISPOSED OF UNLESS OTHERWISE NOTED.
- E. REFER TO THE ARCHITECTURAL PLANS FOR EXTENT OF DEMOLITION WORK TO BE PERFORMED BY THE GENERAL CONTRACTOR. ALL ITEMS THAT NEED TO BE REMOVED BY THE GC SHALL HAVE THE POWER DISCONNECTED BY THE EC.
- F. NOT ALL DEVICES TO BE REMOVED OR DISCONNECTED ARE SHOWN. ALL EXISTING WIRING, ELECTRICAL DEVICES & EQUIPMENT SHALL BE COMPLETELY REMOVED. REFER TO ARCH. PLANS FOR TOTAL EXTENT OF DEMOLITION WORK.
- G. BUILDING IS EXISTING. WIRING IN EXTERIOR WALLS SHALL BE FISHED AS NECESSARY. SOME INTERIOR PARTITIONS ARE EXISTING. WIRING IN THESE WALLS MAY NEED TO BE FISHED. REFER TO ARCHITECTURAL PLANS FOR FULL EXTENT OF EXISTING CONDITIONS. NO SURFACE RACEWAY TO BE INSTALLED WITHOUT WRITTEN AUTHORIZATION FROM ARCHITECT.
- H. REFER TO ALL MECHANICAL DRAWINGS FOR ELECTRICAL COORDINATION.

STATE OF VERMONT
Department of Buildings
and General Services
Agency of Administration
Montpelier, Vermont

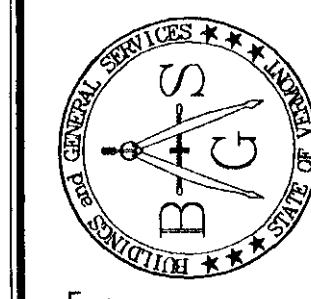
PEARSON & ASSOCIATES
MECHANICAL & ELECTRICAL ENGINEERS
P.O. BOX 610 STONE, VERMONT 05672
TEL (802) 253-9607 FAX (802) 253-9290
EMAIL: pearson@lower.net

AGENCY OF TRANSPORTATION
BENNINGTON MAINTENANCE
GARAGE & OFFICE RENOVATIONS
BENNINGTON

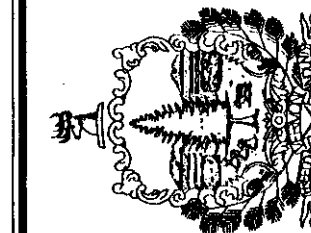
REVISIONS

SCALE: AS SHOWN
DATE: JAN. 2004
DRAWN BY: ASG
APPR. BY: EEP

AGENCY OF TRANSPORTATION
GARAGE & OFFICES
ELECTRICAL
DEMO PLAN
E-1
1 OF 6



STATE OF VERMONT
Department of Buildings
and General Services
Agency of Administration
Montpelier, Vermont



Pearson & Associates
MECHANICAL & ELECTRICAL ENGINEERS
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AGENCY OF TRANSPORTATION
BENNINGTON MAINTENANCE
GARAGE & OFFICE RENOVATIONS
BENNINGTON VERMONT

REVISIONS

SCALE: AS SHOWN
DATE: JAN. 2004
DRAWN BY: ASG
APPR. BY: EEP

AGENCY OF TRANSPORTATION
GARAGE & OFFICES

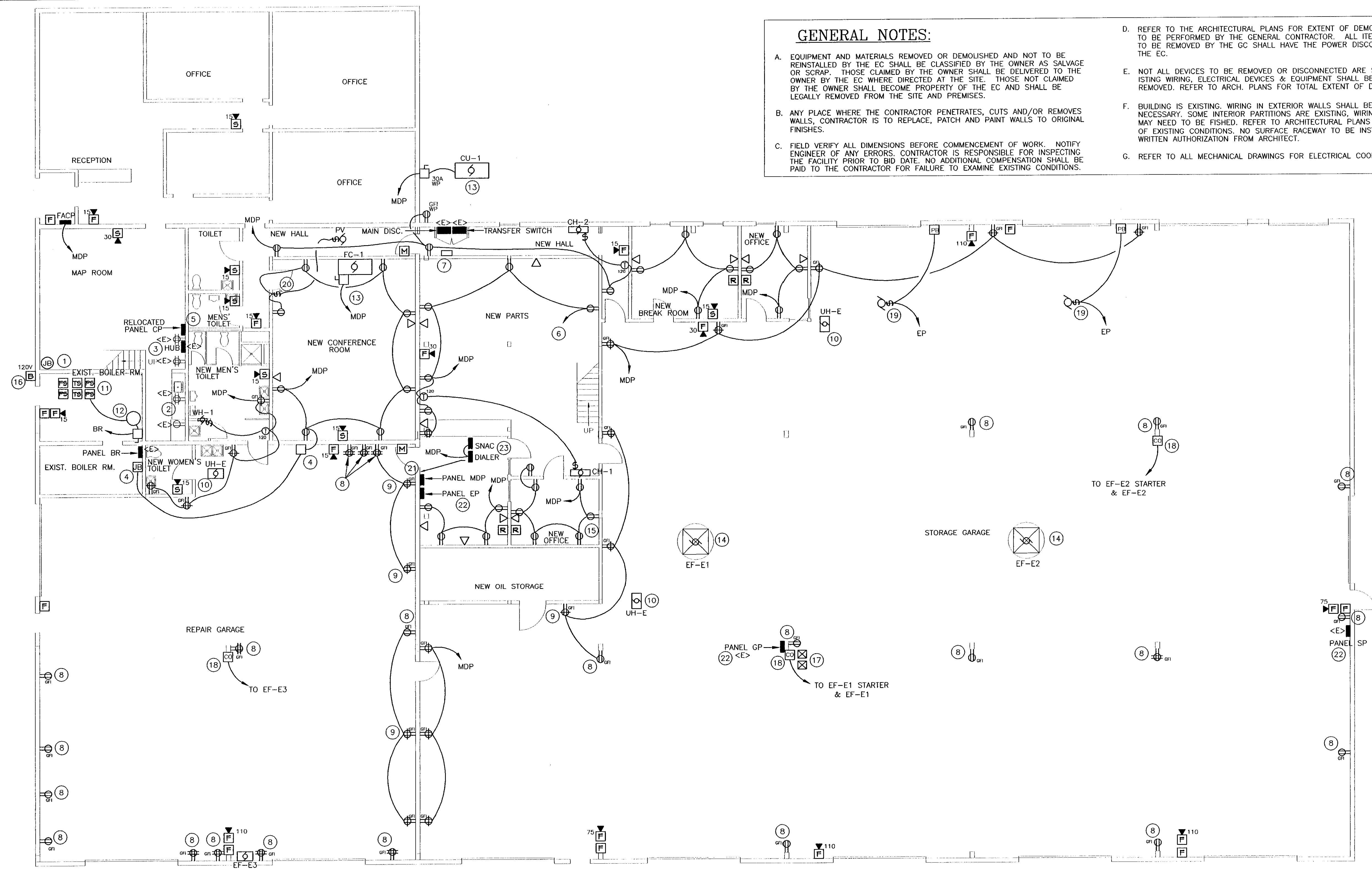
POWER & FIRE
ALARM PLAN

E-2

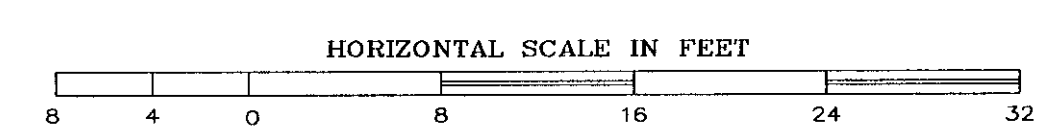
2 OF 6

GENERAL NOTES:

- EQUIPMENT AND MATERIALS REMOVED OR DEMOLISHED AND NOT TO BE REINSTALLED BY THE EC SHALL BE CLASSIFIED BY THE OWNER AS SALVAGE OR SCRAP. THOSE CLAIMED BY THE OWNER SHALL BE DELIVERED TO THE OWNER BY THE EC WHERE DIRECTED AT THE SITE. THOSE NOT CLAIMED BY THE OWNER SHALL BECOME PROPERTY OF THE EC AND SHALL BE LEGALLY REMOVED FROM THE SITE AND PREMISES.
- ANY PLACE WHERE THE CONTRACTOR PENETRATES, CUTS AND/OR REMOVES WALLS, CONTRACTOR IS TO REPLACE, PATCH AND PAINT WALLS TO ORIGINAL FINISHES.
- FIELD VERIFY ALL DIMENSIONS BEFORE COMMENCEMENT OF WORK. NOTIFY ENGINEER OF ANY ERRORS. CONTRACTOR IS RESPONSIBLE FOR INSPECTING THE FACILITY PRIOR TO BID DATE. NO ADDITIONAL COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR FAILURE TO EXAMINE EXISTING CONDITIONS.
- REFER TO THE ARCHITECTURAL PLANS FOR EXTENT OF DEMOLITION WORK TO BE PERFORMED BY THE GENERAL CONTRACTOR. ALL ITEMS THAT NEED TO BE REMOVED BY THE GC SHALL HAVE THE POWER DISCONNECTED BY THE EC.
- NOT ALL DEVICES TO BE REMOVED OR DISCONNECTED ARE SHOWN. ALL EXISTING WIRING, ELECTRICAL DEVICES & EQUIPMENT SHALL BE COMPLETELY REMOVED. REFER TO ARCH. PLANS FOR TOTAL EXTENT OF DEMOLITION WORK.
- BUILDING IS EXISTING. WIRING IN EXTERIOR WALLS SHALL BE FISHED AS NECESSARY. SOME INTERIOR PARTITIONS ARE EXISTING. WIRING IN THESE WALLS MAY NEED TO BE FISHED. REFER TO ARCHITECTURAL PLANS FOR FULL EXTENT OF EXISTING CONDITIONS. NO SURFACE RACEWAY TO BE INSTALLED WITHOUT WRITTEN AUTHORIZATION FROM ARCHITECT.
- REFER TO ALL MECHANICAL DRAWINGS FOR ELECTRICAL COORDINATION.

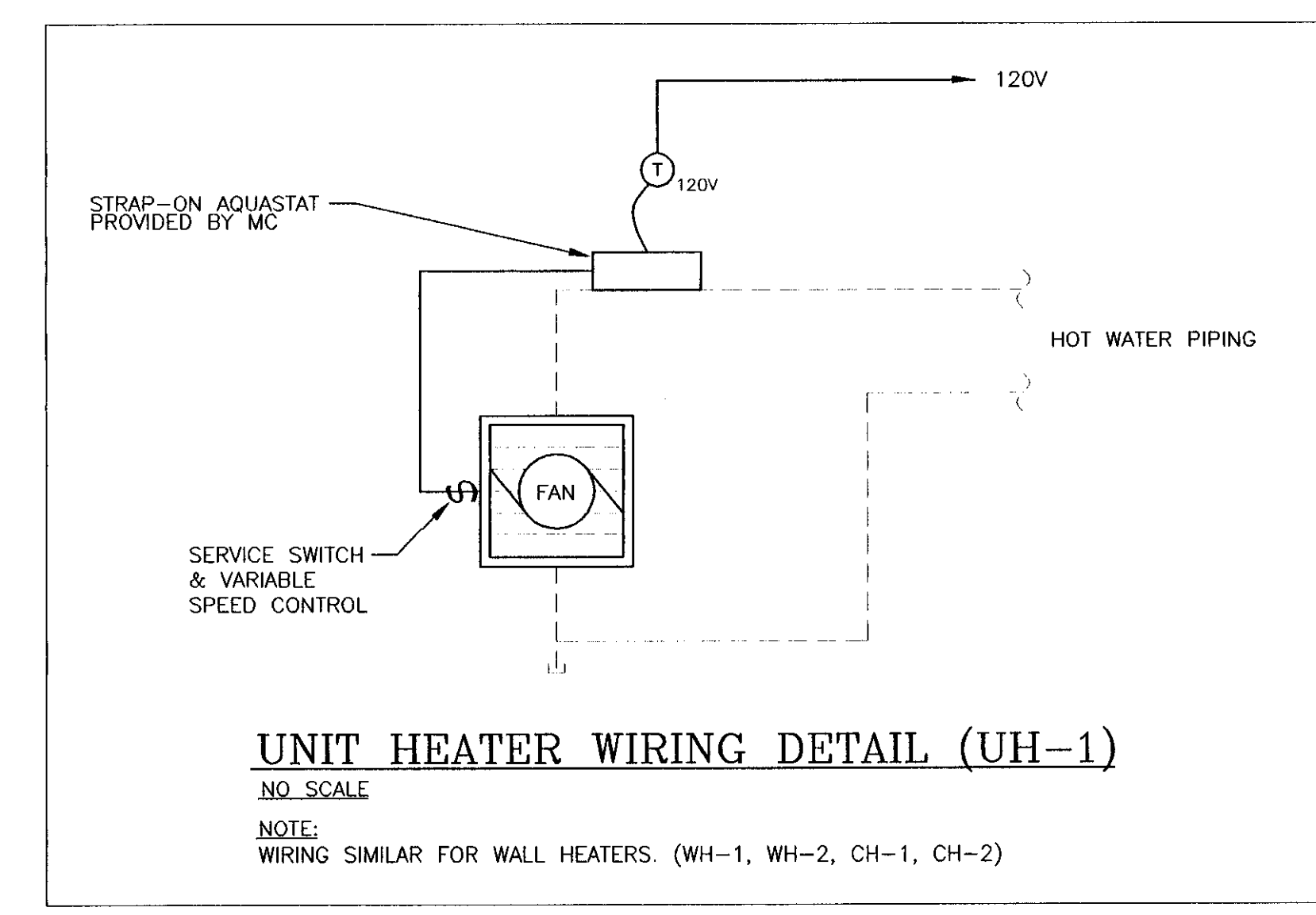


FLOOR PLAN - POWER PLAN
SCALE: 1/8" = 1'-0"



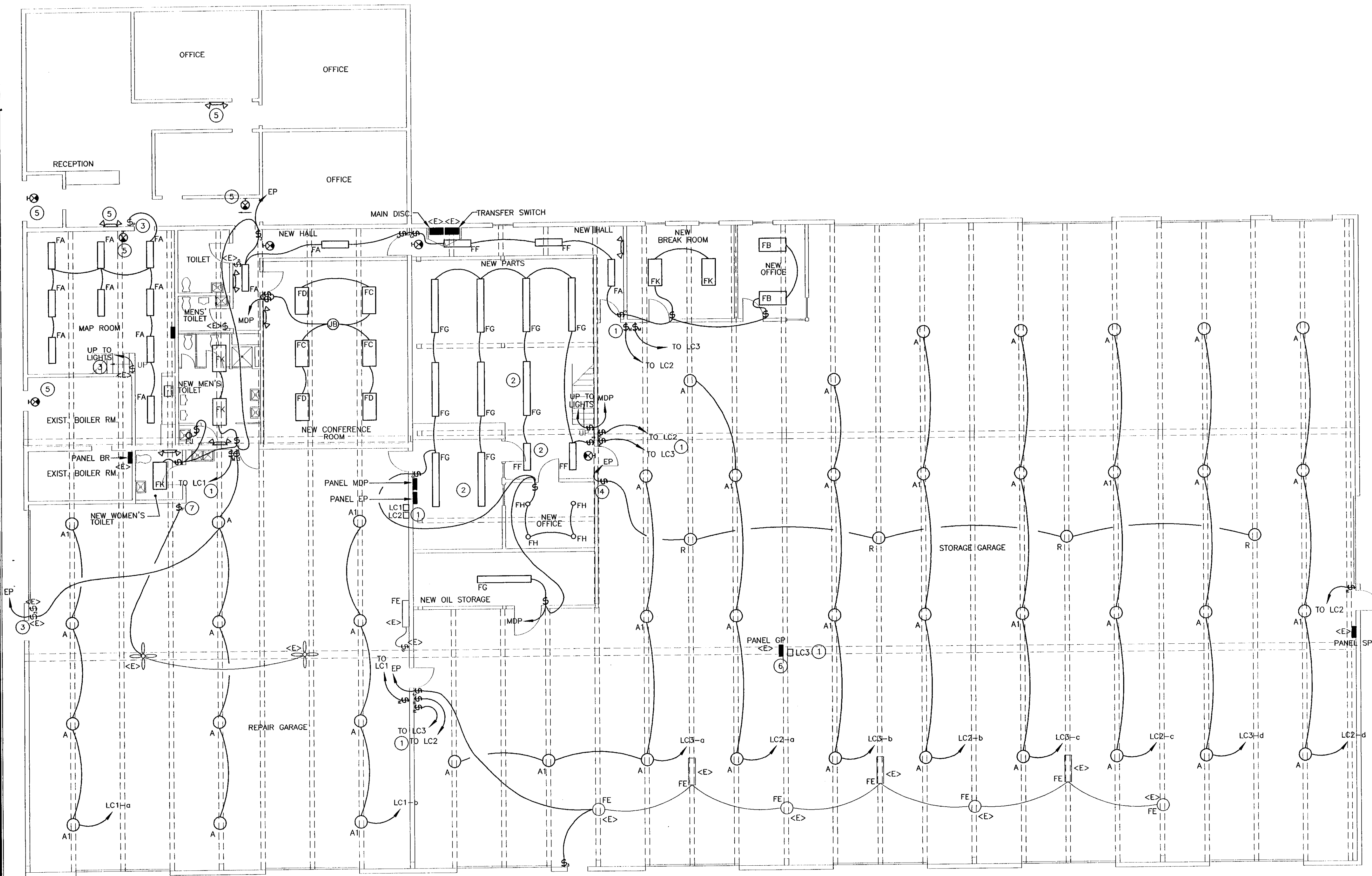
KEYED NOTES:

- PROVIDE NEW J-BOX FOR ROMEX WIRES IN CEILING, MOUNT FLUSH WITH CEILING.
- EXISTING QUAD RECEPTACLE, REWIRE SO THAT EACH DUPLEX RECEPTACLE IS A SEPARATE CIRCUIT. REFEED FROM PANEL CP.
- EXISTING QUAD RECEPTACLES FED FROM RELOCATED PANEL "CP".
- RELOCATED TANK MONITORING EQUIPMENT, INTERCEPT WIRING IN BOILER ROOM, PROVIDE J-BOX AND EXTEND WIRING TO THIS NEW LOCATION. UNIT REQUIRES 120V POWER & REQUIRES BELDON #915G-CMG-2PR18 WIRE.
- RELOCATED PANEL "CP". UTILIZE EXISTING J-BOXES IN ATTIC SPACE FOR EXTENDING EXISTING CIRCUITS TO NEW PANEL LOCATION. REFER TO MEZZANINE PLAN.
- UP TO MEZZANINE.
- RELOCATED ALARM PANEL. PROVIDE TEL. JACK AND RECEPTACLE @ 86" FOR ALARM POWER SUPPLY. EXTEND EXISTING ALARM CIRCUITS AS REQUIRED.
- REPLACE EXISTING RECEPTACLE(S) WITH GFI RECEPTACLE.
- CONNECT NEW RECEPTACLES TO EXISTING CIRCUIT AS SHOWN. MATCH HEIGHT OF EXISTING RECEPTACLES.
- RELOCATED UNIT HEATER, EXTEND EXISTING CIRCUIT TO NEW LOCATION.
- NEW WATER SERVICE & SPRINKLER RISER. PROVIDE FIRE ALARM MONITORING OF (2) TAMPER SWITCHES, (2) FLOW SWITCHES, LOW & HIGH PRESSURE SWITCHES.
- PROVIDE 20A, 120V CIRCUIT FOR NEW AIR COMPRESSOR, WIRE TO PRESSURE SWITCH. PRESSURE SWITCH & COMPRESSOR PROVIDED BY MC.
- REFER TO ALL MECHANICAL DRAWINGS FOR COORDINATION OF ELECTRICAL REQUIREMENTS. PROVIDE 2-POLE 25A CIRCUIT BREAKER & CIRCUIT FOR CU-1. PROVIDE 2-POLE 15A CIRCUIT BREAKER & CIRCUIT FOR FC-1.
- BASE BID: EXHAUST FANS REMAIN. RE-USE EXISTING CIRCUITS. EXTEND WIRING TO NEW CO SENSORS. RE-USE DISCONNECTS & STARTERS IF REQUIRED. CO MONITORING EQUIPMENT PROVIDED BY MC.
- RELOCATED WEATHER MONITORING COMPUTER. EXTEND COAXIAL CABLE AS REQUIRED. COORD. EXACT LOCATION WITH OWNER. COORD WORK WITH CABLE SERVICE PROVIDER.
- 120V BELL. PROVIDED BY OTHERS, WIRED BY EC. CONNECT TO FLOW SWITCH. PROVIDE 120V SOURCE.
- EXISTING EXHAUST FAN CONTROLS, REUSE STARTERS WITH NEW CARBON MONOXIDE DETECTORS.
- NEW CARBON MONOXIDE SENSOR TO CONTROL EXISTING EXHAUST FANS. SENSORS PROVIDED BY OTHERS. PROVIDE 120V POWER FROM NEAREST RECEPTACLE CIRCUIT.
- NEW DOOR OPERATORS, COORD INSTALLATION WITH ES. PROVIDE 20A, 120V CIRCUIT.
- POWER VENTILATOR SPEED CONTROL SWITCH PROVIDED BY OTHERS, WIRED BY EC. COORD INSTALLATION WITH MC.
- PANEL MDP IS A SIEMENS TYPE S1 PANELBOARD. PROVIDE NEW CIRCUIT BREAKERS AS REQUIRED FOR ALL NEW CIRCUITS.
- PANELS GP, EP, & SP ARE SIEMENS LOADCENTERS. PROVIDE NEW CIRCUIT BREAKERS AS REQUIRED FOR ALL NEW CIRCUITS.
- COORD EXACT LOCATION OF FIRE ALARM SNAC PANEL & DIALER WITH OWNER.

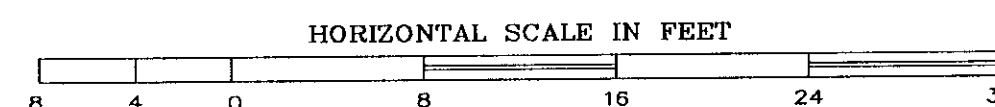


UNIT HEATER WIRING DETAIL (UH-1)

NO SCALE
NOTE:
WIRING SIMILAR FOR WALL HEATERS. (WH-1, WH-2, CH-1, CH-2)



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



GENERAL NOTES:

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- ANY PLACE WHERE THE CONTRACTOR PENETRATES, CUTS AND/OR REMOVES WALLS, CONTRACTOR IS TO REPLACE, PATCH AND PAINT WALLS TO ORIGINAL FINISHES.
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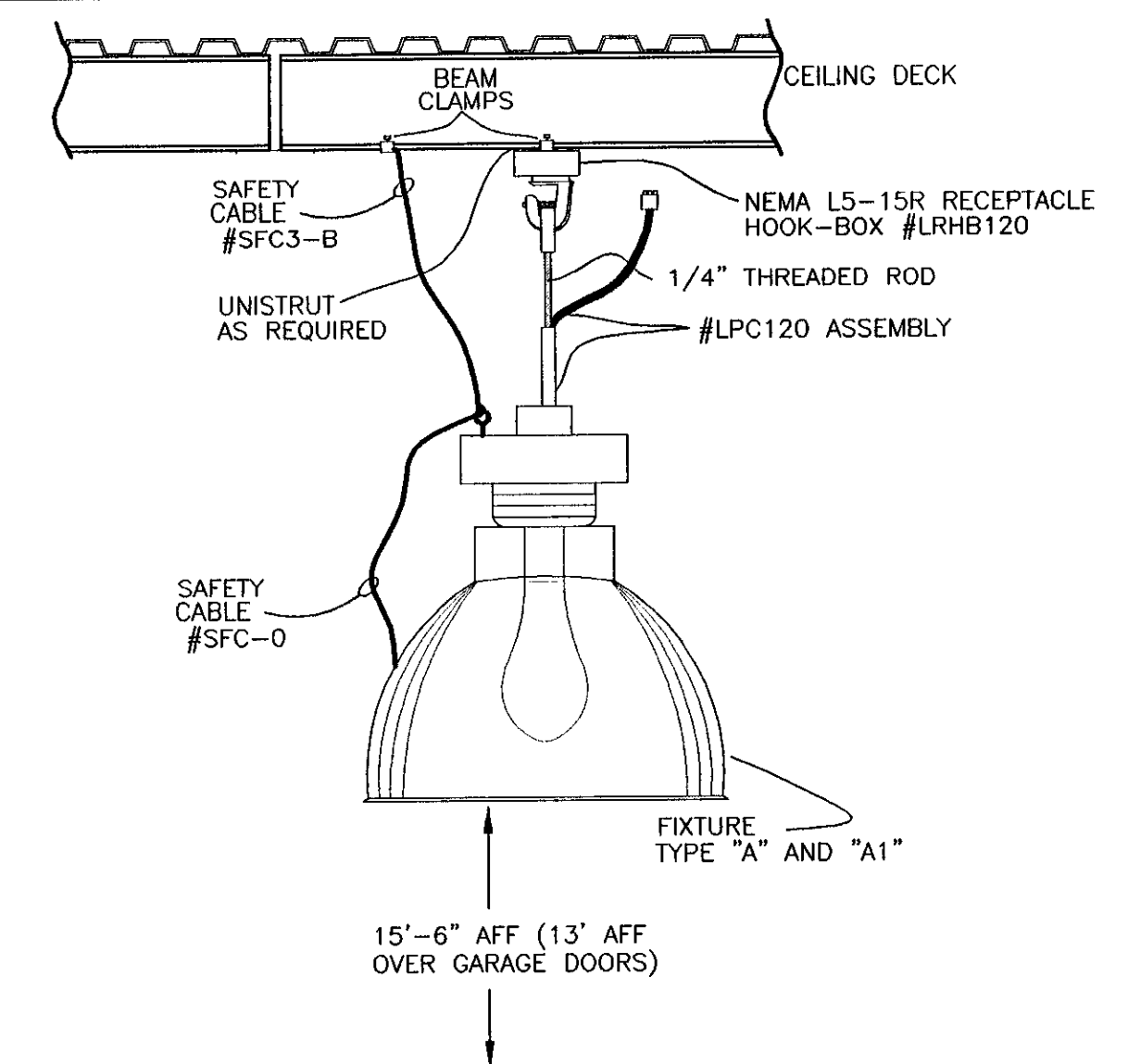
- REFER TO THE ARCHITECTURAL PLANS FOR EXTENT OF DEMOLITION WORK TO BE PERFORMED BY THE GENERAL CONTRACTOR. ALL ITEMS THAT NEED TO BE REMOVED BY THE GC SHALL HAVE THE POWER DISCONNECTED BY THE EC.
- NOT ALL DEVICES TO BE REMOVED OR DISCONNECTED ARE SHOWN. ALL EXISTING WIRING, ELECTRICAL DEVICES & EQUIPMENT SHALL BE COMPLETELY REMOVED. REFER TO ARCH. PLANS FOR TOTAL EXTENT OF DEMOLITION WORK.
- BUILDING IS EXISTING. WIRING IN EXTERIOR WALLS SHALL BE FISHED AS NECESSARY. SOME INTERIOR PARTITIONS ARE EXISTING. WIRING IN THESE WALLS MAY NEED TO BE FISHED. REFER TO ARCHITECTURAL PLANS FOR FULL EXTENT OF EXISTING CONDITIONS. NO SURFACE RACEWAY TO BE INSTALLED WITHOUT WRITTEN AUTHORIZATION FROM ARCHITECT.

KEYED NOTES:

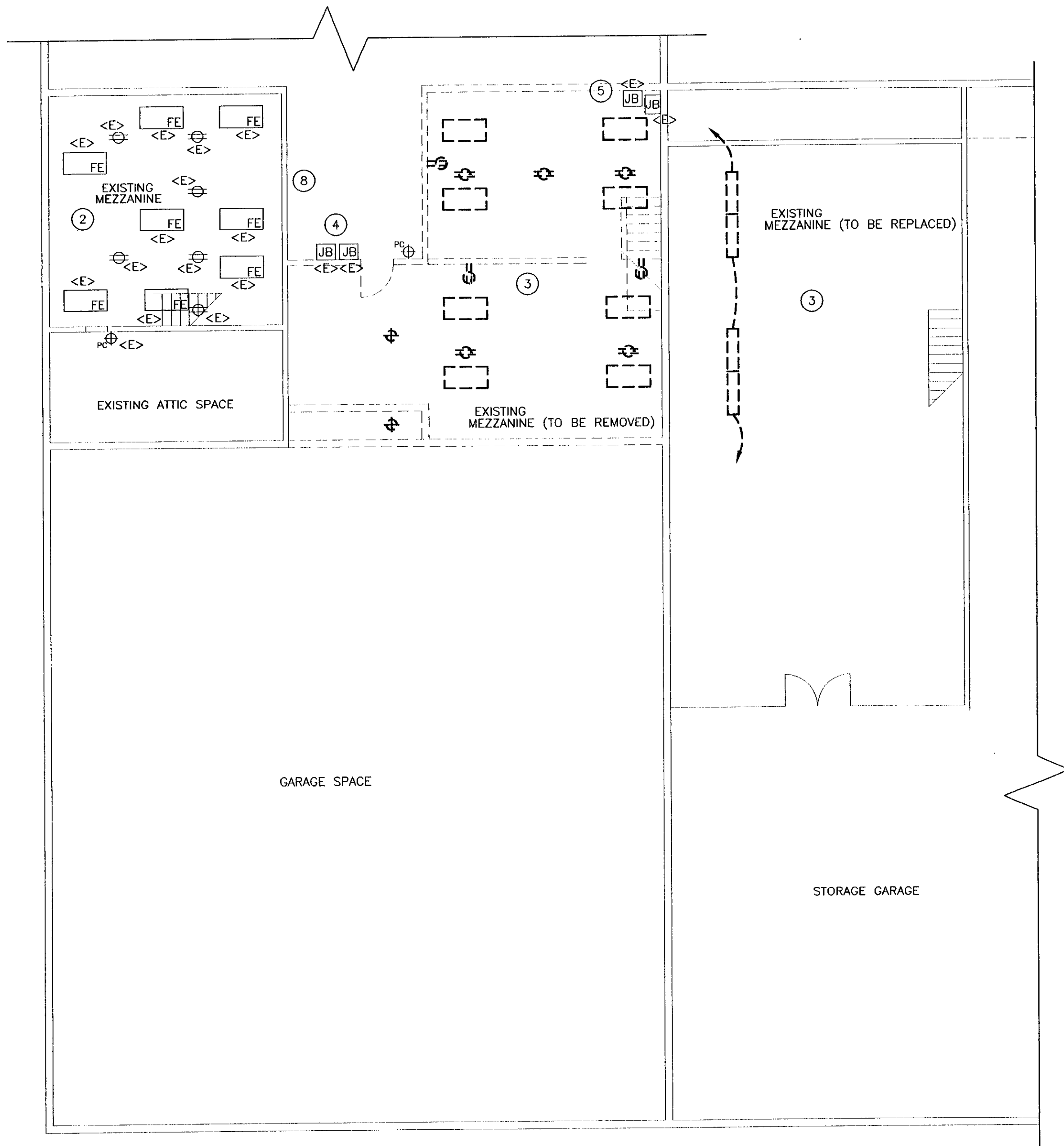
- REFER TO LIGHTING WIRING DIAGRAM (TYP. OF ALL \$.)
- FIXTURES SHALL BE CHAIN-HUNG, WITHIN THE JOIST SPACE, FLUSH WITH THE BOTTOM OF THE JOISTS.
- EXISTING SWITCH, WIRE TO NEW LIGHTS AS SHOWN.
- PROVIDE RED SWITCH PLATE WITH LABEL "EM-LIGHTS".
- CONNECT TO NEAREST RECEPTACLE CIRCUIT.
- PROVIDE UNISTRUT STRUCTURE TO MOUNT NEW LIGHTING CONTACTORS AS REQUIRED.
- RELOCATED FAN SPEED CONTROL.

LIGHTING FIXTURE SCHEDULE

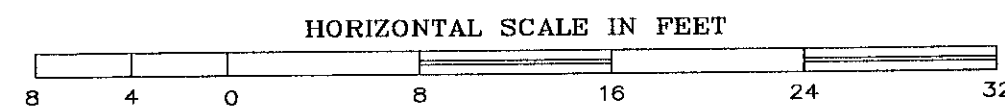
TYPE	MANUFACTURER & MODEL	MOUNTING	LAMPS	REMARKS
FA	COLUMBIA WC4-232-EB8-120	SURFACE	(2)-F032T8 3500 K	
FB	COLUMBIA P424-232G-LD36-S-EB8-120	RECESSED	(2)-F032T8 3500 K	
FC	COLUMBIA P424-332G-LD36-S-EB8-120-MS9	RECESSED	(3)-F032T8 3500 K	MASTER/SLAVE WIRED FOR DUAL-LEVEL LIGHTING
FE	EXISTING FIXTURE TO REMAIN	EXISTING		WASH ALL FIXTURES & LENSES
FF	COLUMBIA KL4-232-ST-EB8-120-KHC-KLWG4	CHAIN-HUNG	(2)-F032T8 3500 K	CHAIN HUNG, WIRE GUARD HANG FLUSH WITH BOTTOM OF FLOOR JOISTS
FG	COLUMBIA KL8-232-ST-EB8-120-KHC-KLWG4	CHAIN-HUNG	(4)-F032T8 3500 K	CHAIN HUNG, WIRE GUARD HANG FLUSH WITH BOTTOM OF FLOOR JOISTS
FH	PRESCOLITE QBX18-120-T071S	RECESSED	(1)-18W QUAD 2700 K	
FJ	PRESCOLITE 9424-13NPF-120	SURFACE	(1)-13W TT 2700 K	
FK	COLUMBIA J24-232G-FSA12-EB8-120	RECESSED	(2)-F032T8 3500 K	
A	GE VERSAGLOW V2G-25-P-0-A-4-EA-5-LCP120-SFC0-SFC3B	PENDANT	250W MH PULSE START	WITH #LRHB120 HOOK-BOX REFER TO DETAIL
A1	GE VERSAGLOW V2G-25-P-0-A-4-EA-5-Q-LCP120-SFC0-SFC3B	PENDANT	250W MH PULSE START	SAME AS ABOVE WITH 150W QUARTZ RESTRIKE
R	RELOCATED FIXTURES CLEAN AND RELAMP	PENDANT	250W MH PULSE START	REUSE ALL MOUNTING HARDWARE & EQUIPMENT
	DUALITE EZ-2	SURFACE	INCLUDED	
	DUALITE LXURWE	SURFACE	INCLUDED	RED LETTERING



TYPE "A" & "A1" FIXTURE MOUNTING DETAIL
NO SCALE

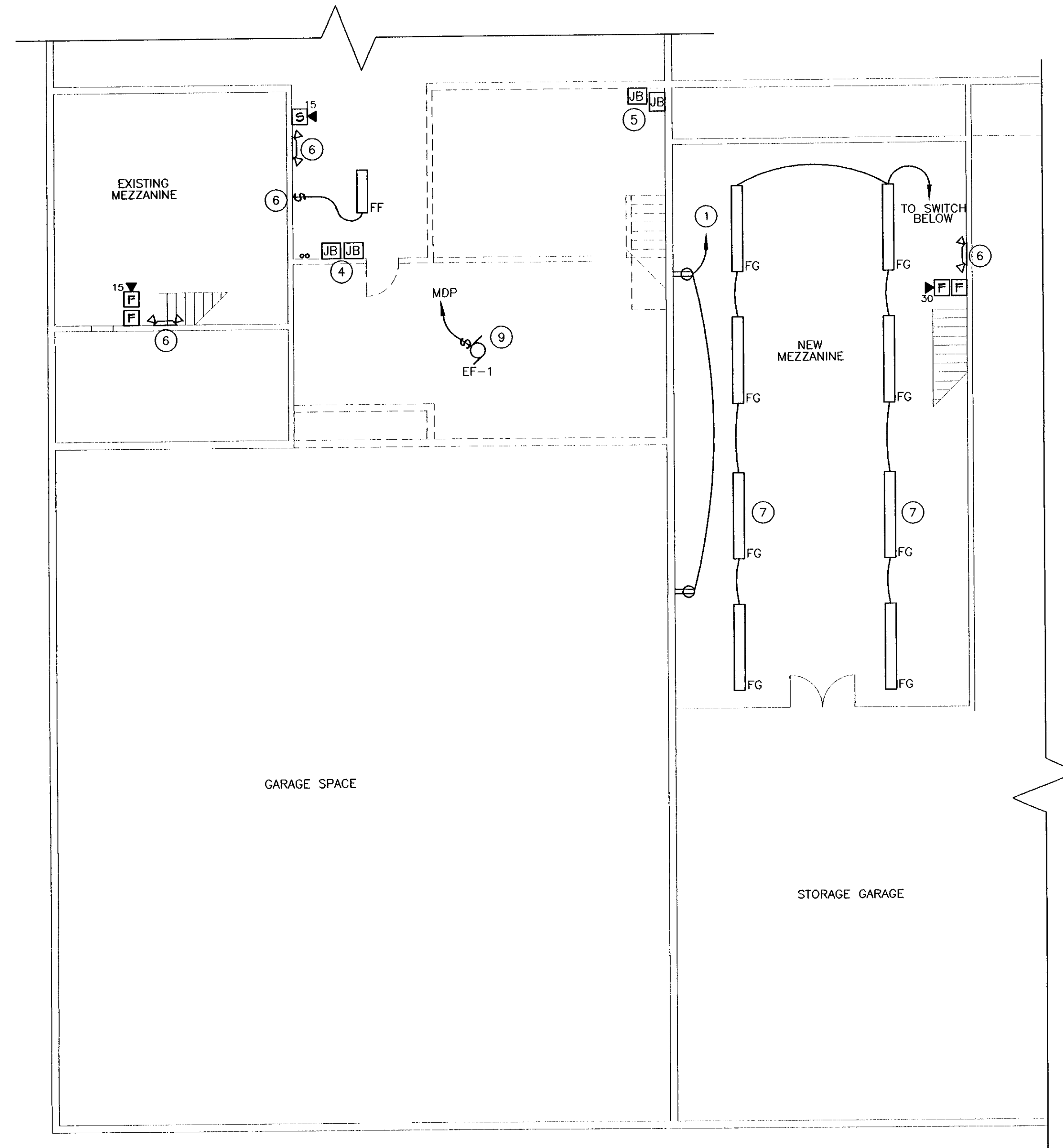


MEZZANINE DEMOLITION PLAN
SCALE: 1/8" = 1'-0"

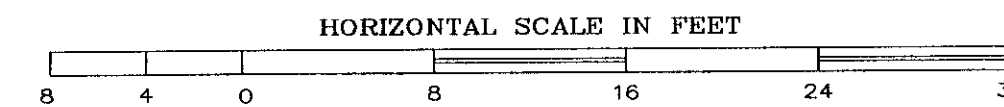


KEYED NOTES:

- 1 DOWN TO RECEPTACLES BELOW.
- 2 EXISTING ELECTRICAL ITEMS ON THIS MEZZANINE TO REMAIN.
- 3 EXISTING ELECTRICAL ITEMS ON THIS MEZZANINE TO BE REMOVED.
- 4 EXISTING J-BOXES USED FOR PANEL "CP". EXTEND AND RE-ROUTE CONDUITS TO NEW PANEL LOCATION BELOW.
- 5 EXISTING 12"x12" J-BOXES. REMOVE ALL UNUSED WIRING. LABEL EXISTING WIRES. PROVIDE COVERS AND PROVIDE LABELING FOR J-BOXES.
- 6 CONNECT TO EXISTING RECEPTACLE IN EXISTING MEZZ.
- 7 MOUNT NEW FIXTURES BETWEEN BEAMS ON DECK.
- 8 EXISTING CABLE SERVICE FOR WEATHER COMPUTER IS FED THRU THIS AREA. EXTEND AS REQUIRED TO NEW AREA BELOW.
- 9 COORD EXACT LOCATION & INSTALLATION WITH MC.

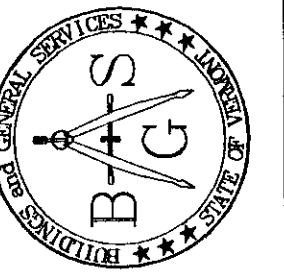
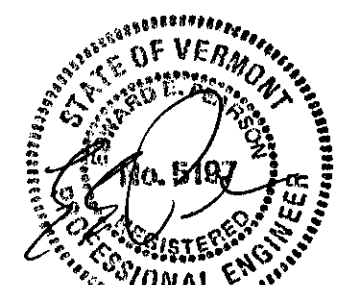


MEZZANINE ELECTRICAL PLAN
SCALE: 1/8" = 1'-0"



GENERAL NOTES: (APPLY TO ALL DRAWINGS)

- A. EQUIPMENT AND MATERIALS REMOVED OR DEMOLISHED AND NOT TO BE REINSTALLED BY THE EC SHALL BE CLASSIFIED BY THE OWNER AS SALVAGE OR SCRAP. THOSE CLAIMED BY THE OWNER SHALL BE DELIVERED TO THE OWNER BY THE EC WHERE DIRECTED AT THE SITE. THOSE NOT CLAIMED BY THE OWNER SHALL BECOME PROPERTY OF THE EC AND SHALL BE LEGALLY REMOVED FROM THE SITE AND PREMISES.
- B. ANY PLACE WHERE THE CONTRACTOR PENETRATES, CUTS AND/OR REMOVES WALLS, CONTRACTOR IS TO REPLACE, PATCH AND PAINT WALLS TO ORIGINAL FINISHES.
- C. FIELD VERIFY ALL DIMENSIONS BEFORE COMMENCEMENT OF WORK. NOTIFY ENGINEER OF ANY ERRORS. CONTRACTOR IS RESPONSIBLE FOR INSPECTING THE FACILITY PRIOR TO BID DATE. NO ADDITIONAL COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR FAILURE TO EXAMINE EXISTING CONDITIONS.
- D. REFER TO THE ARCHITECTURAL PLANS FOR EXTENT OF DEMOLITION WORK TO BE PERFORMED BY THE GENERAL CONTRACTOR. ALL ITEMS THAT NEED TO BE REMOVED BY THE GC SHALL HAVE THE POWER DISCONNECTED BY THE EC.
- E. NOT ALL DEVICES TO BE REMOVED OR DISCONNECTED ARE SHOWN. ALL EXISTING WIRING, ELECTRICAL DEVICES & EQUIPMENT SHALL BE COMPLETELY REMOVED. REFER TO ARCH. PLANS FOR TOTAL EXTENT OF DEMOLITION WORK.
- F. BUILDING IS EXISTING. WIRING IN EXTERIOR WALLS SHALL BE FISHED AS NECESSARY. SOME INTERIOR PARTITIONS ARE EXISTING. WIRING IN THESE WALLS MAY NEED TO BE FISHED. REFER TO ARCHITECTURAL PLANS FOR FULL EXTENT OF EXISTING CONDITIONS. NO SURFACE RACEWAY TO BE INSTALLED WITHOUT WRITTEN AUTHORIZATION FROM ARCHITECT.



STATE OF VERMONT
Department of Buildings
and General Services
Agency of Administration
Montpelier, Vermont



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AGENCY OF TRANSPORTATION
BENNINGTON MAINTENANCE
GARAGE & OFFICE RENOVATIONS
BENNINGTON VERMONT

REVISIONS

SCALE: AS SHOWN

DATE: JAN. 2004

DRAWN BY: ASG

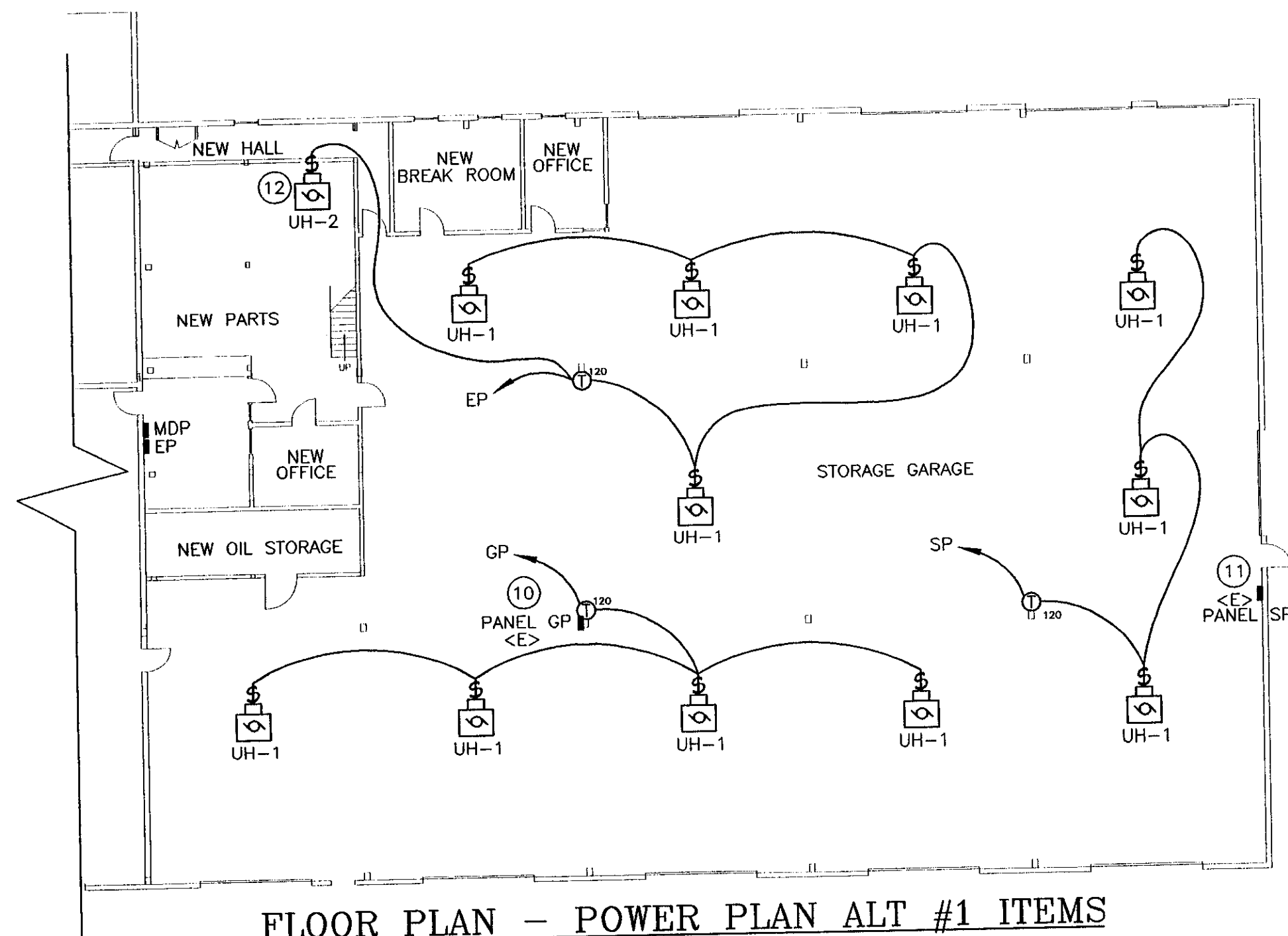
APPR. BY: EEP

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TRANSPORTATION
GARAGE &
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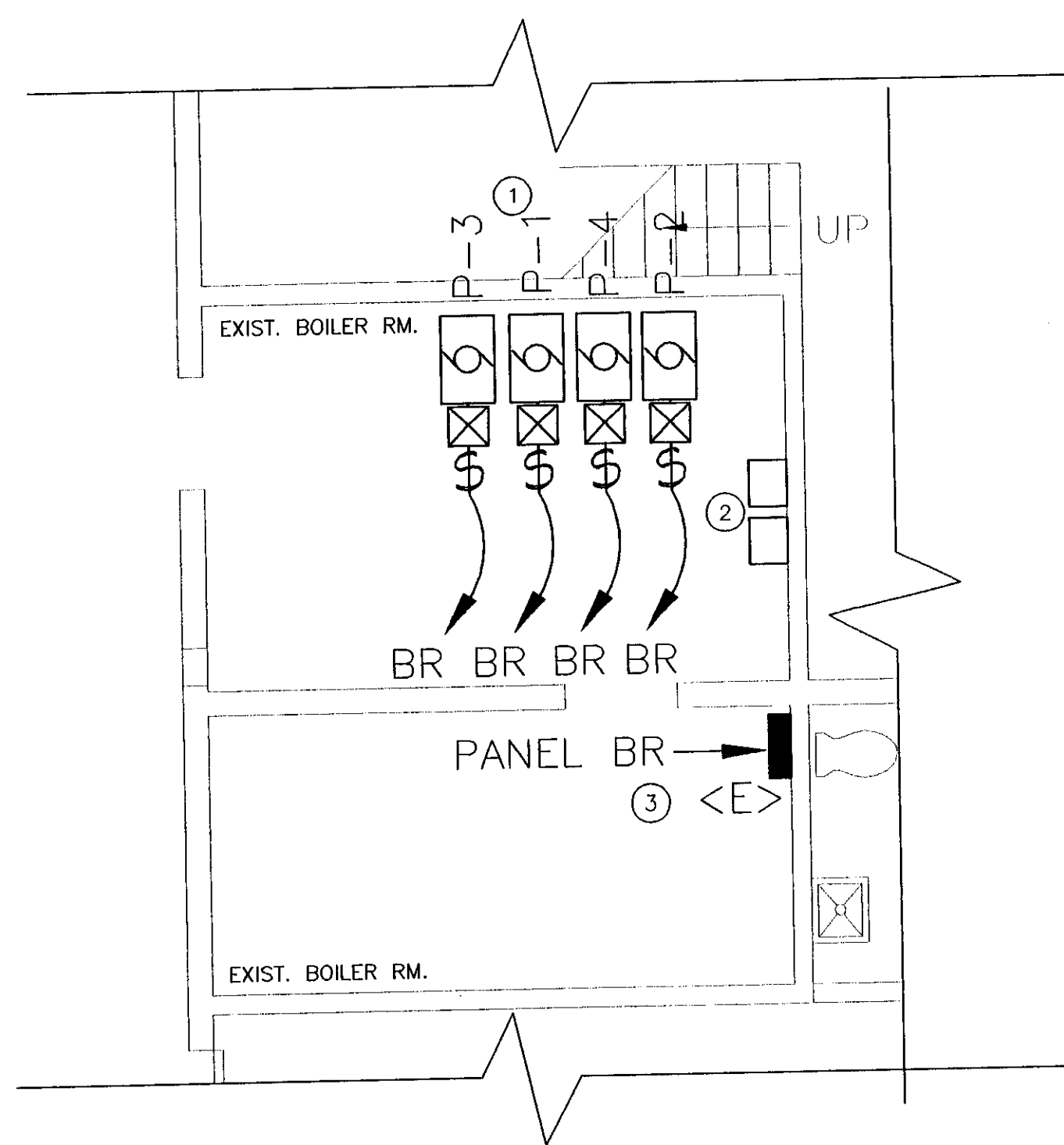
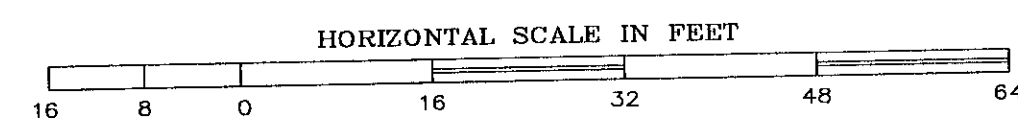
MEZZANINE
PLAN

E-4

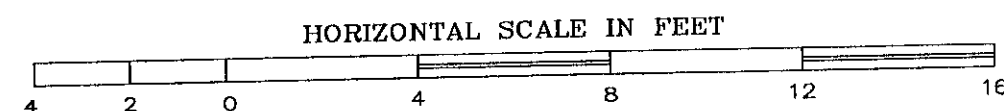
4 OF 6



FLOOR PLAN - POWER PLAN ALT #1 ITEMS
SCALE: 1/16" = 1'-0"



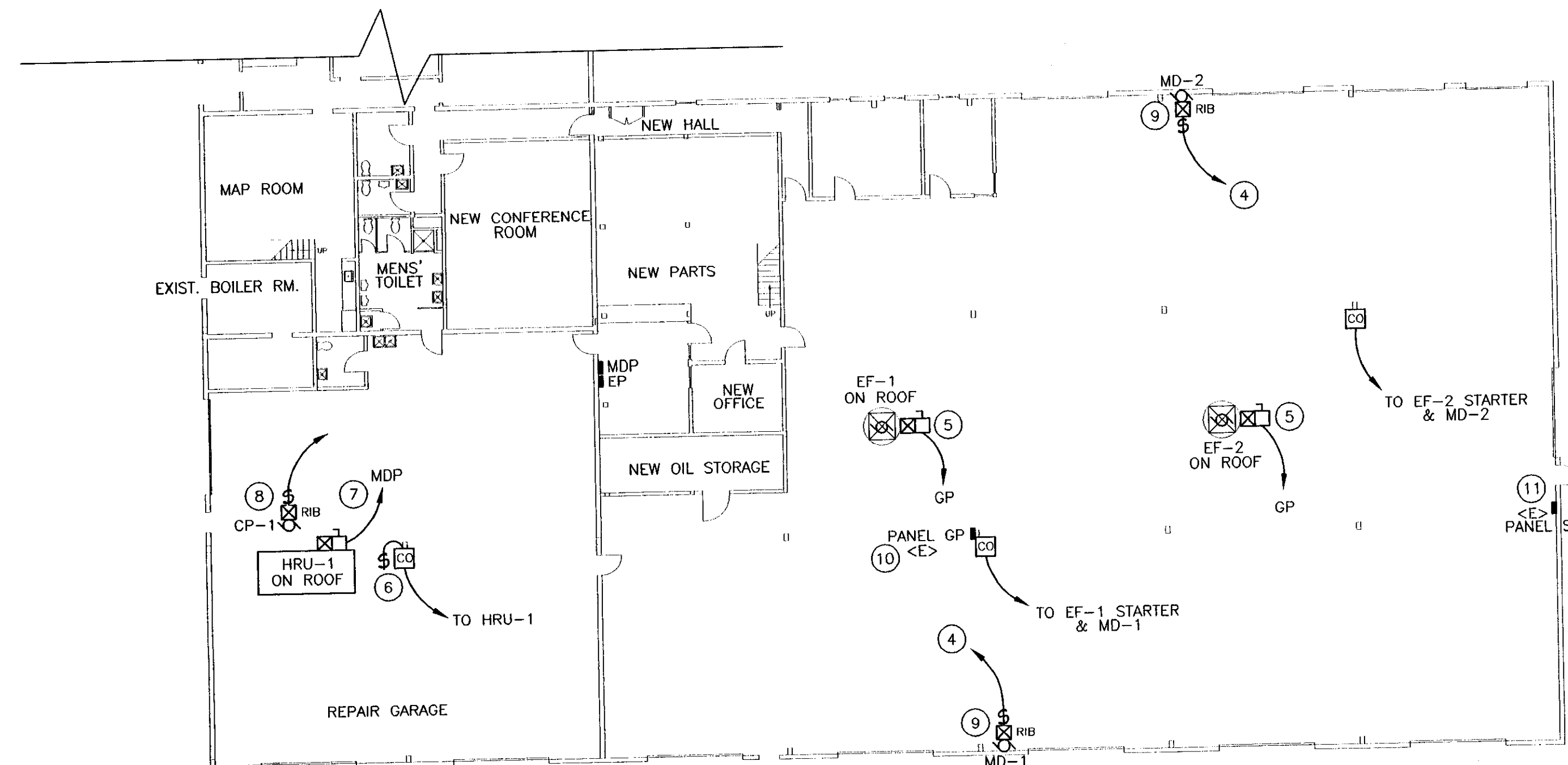
FLOOR PLAN - BOILER ROOM ALT #1 ITEMS
SCALE: 1/4" = 1'-0"



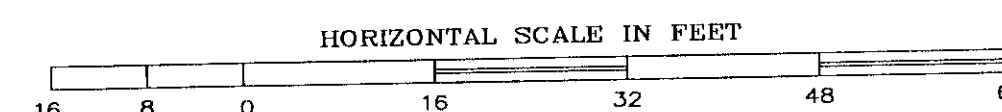
KEYED NOTES:

- 1 DISCONNECT EXISTING PUMP P-1. CONNECT NEW PUMP P-3 TO EXISTING WIRING. DISCONNECT EXISTING PUMP P-2. CONNECT NEW PUMP P-4 TO EXISTING WIRING. REFER TO MECHANICAL DRAWING M7 FOR DETAILS.
- 2 REMOVE EXISTING ALTERNATOR CONTROLS & ALL ASSOCIATED WIRING. NEW PUMPS SHALL RUN CONTINUOUSLY WHEN OUTSIDE TEMPERATURE IS BELOW SETPOINT.
- 3 EXISTING CUTLER HAMMER LOADCENTER, PROVIDE (2) NEW 20-AMP, 2-POLE BREAKERS FOR NEW PUMPS P-3 & P-4.
- 4 CONNECT TO NEAREST 120V RECEPTACLE CIRCUIT.
- 5 DISCONNECT EXISTING EXHAUST FANS. REWIRE NEW EXHAUST FANS. PROVIDE NEW 2-POLE CIRCUIT BREAKERS FOR NEW FANS. REUSE EXISTING CONDUIT & WIRING. STARTERS & DISCONNECTS PROVIDED BY MC.
- 6 CARBON MONOXIDE SENSOR & MANUAL ON-OFF SWITCH TO CONTROL HRU-1. CONNECT TO NEAREST RECEPTACLE CIRCUIT.
- 7 PROVIDE NEW 50-A, 240V CIRCUIT & DISCONNECT FOR HRU-1. PROVIDE NEW 2-POLE 50A BREAKER IN PANEL MDP.
- 8 PROVIDE 120V FEED TO CIRCULATOR CP-1. CP-1 SHALL RUN WHEN HRU-1 REQUIRES HEAT. PROVIDE RELAY FOR USE BY CONTROL CONTRACTOR.

- 9 MOTOR-OPERATED-DAMPER SHALL OPERATE WITH CO SENSOR & EXHAUST FAN. PROVIDE 120V RELAY.
- 10 PANEL "GP" IS A SEIMENS LOADCENTER, PROVIDE NEW BREAKERS FOR ALL NEW REQUIRED CIRCUITS.
- 11 PANEL "SP" IS A SEIMENS LOADCENTER, PROVIDE NEW BREAKERS FOR ALL NEW REQUIRED CIRCUITS.
- 12 UNIT HEATER LOCATED ABOVE MEZZANINE.

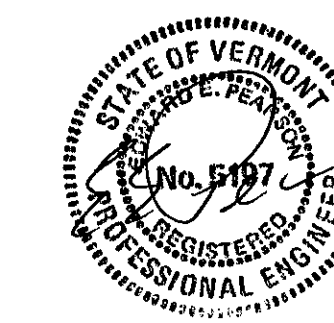


FLOOR PLAN - POWER PLAN ALT #2 ITEMS
SCALE: 1/16" = 1'-0"

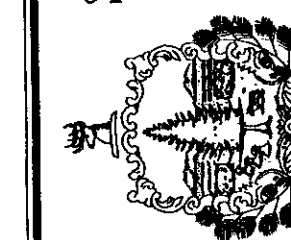


GENERAL NOTES:

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- D. REFER TO THE ARCHITECTURAL PLANS FOR EXTENT OF DEMOLITION WORK TO BE PERFORMED BY THE GENERAL CONTRACTOR. ALL ITEMS THAT NEED TO BE REMOVED BY THE GC SHALL HAVE THE POWER DISCONNECTED BY THE EC.
- E. NOT ALL DEVICES TO BE REMOVED OR DISCONNECTED ARE SHOWN. ALL EXISTING WIRING, ELECTRICAL DEVICES & EQUIPMENT SHALL BE COMPLETELY REMOVED. REFER TO ARCH. PLANS FOR TOTAL EXTENT OF DEMOLITION WORK.
- F. BUILDING IS EXISTING. WIRING IN EXTERIOR WALLS SHALL BE FISHED AS NECESSARY. SOME INTERIOR PARTITIONS ARE EXISTING. WIRING IN THESE WALLS MAY NEED TO BE FISHED. REFER TO ARCHITECTURAL PLANS FOR FULL EXTENT OF EXISTING CONDITIONS. NO SURFACE RACEWAY TO BE INSTALLED WITHOUT WRITTEN AUTHORIZATION FROM ARCHITECT.
- G. REFER TO ALL MECHANICAL DRAWINGS FOR ELECTRICAL COORDINATION.



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REVISIONS	SCALE: AS SHOWN	DATE: JAN. 2004	DRAWN BY: ASG	APPR. BY: EEP

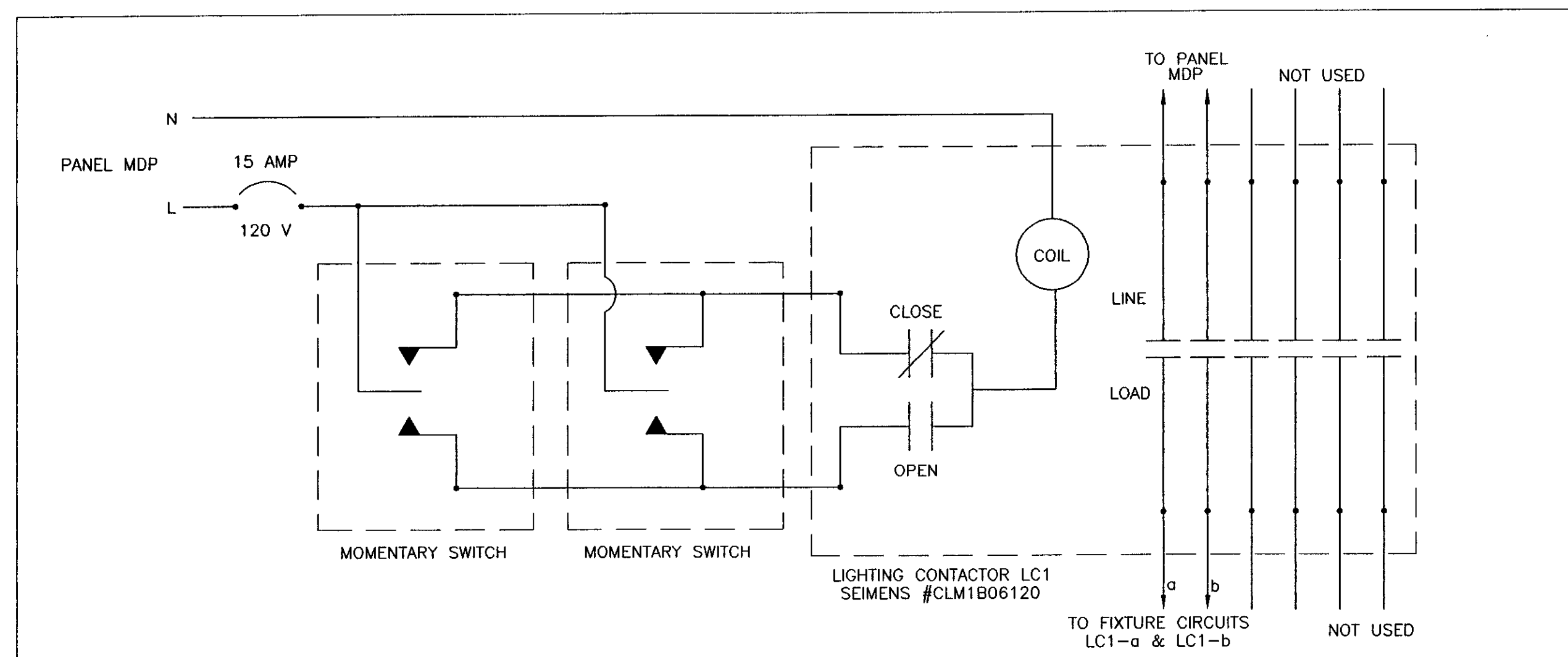
AGENCY OF TRANSPORTATION
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ALT. #1 &
ALT. #2 ITEMS

E-5

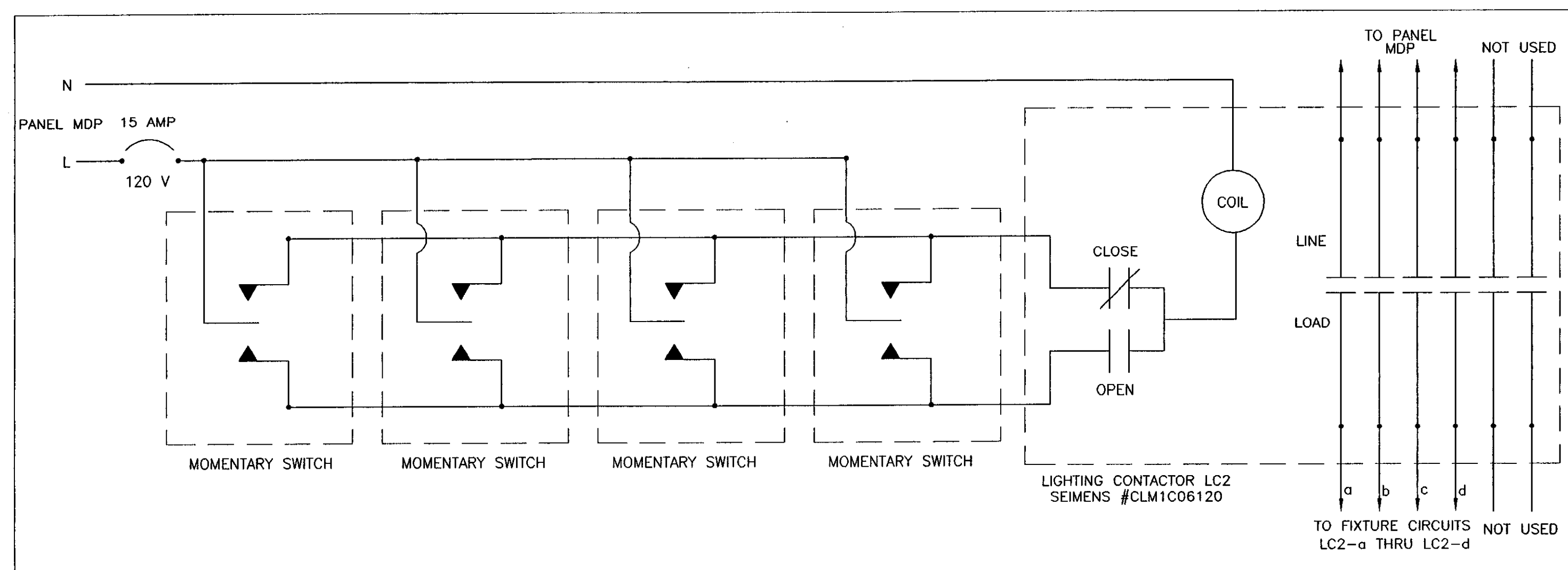
5 OF 6

Poor Quality

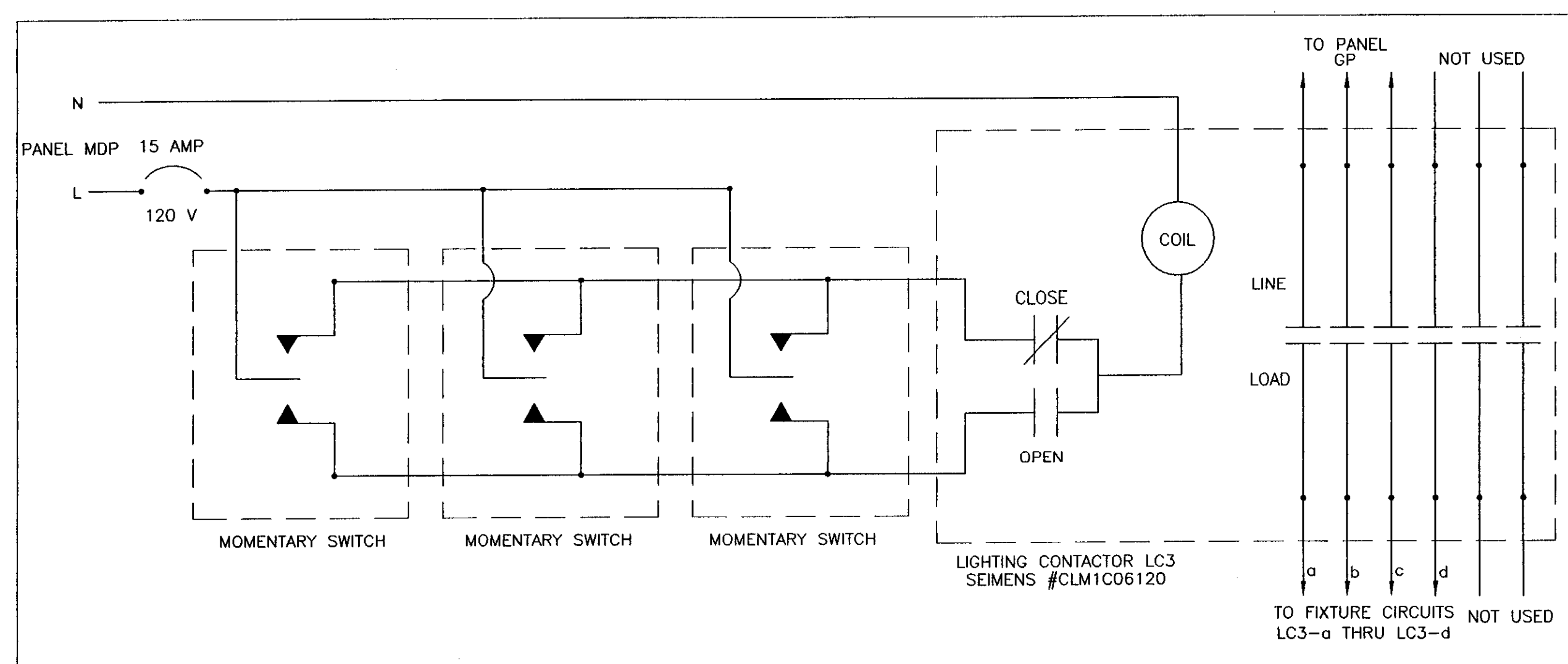
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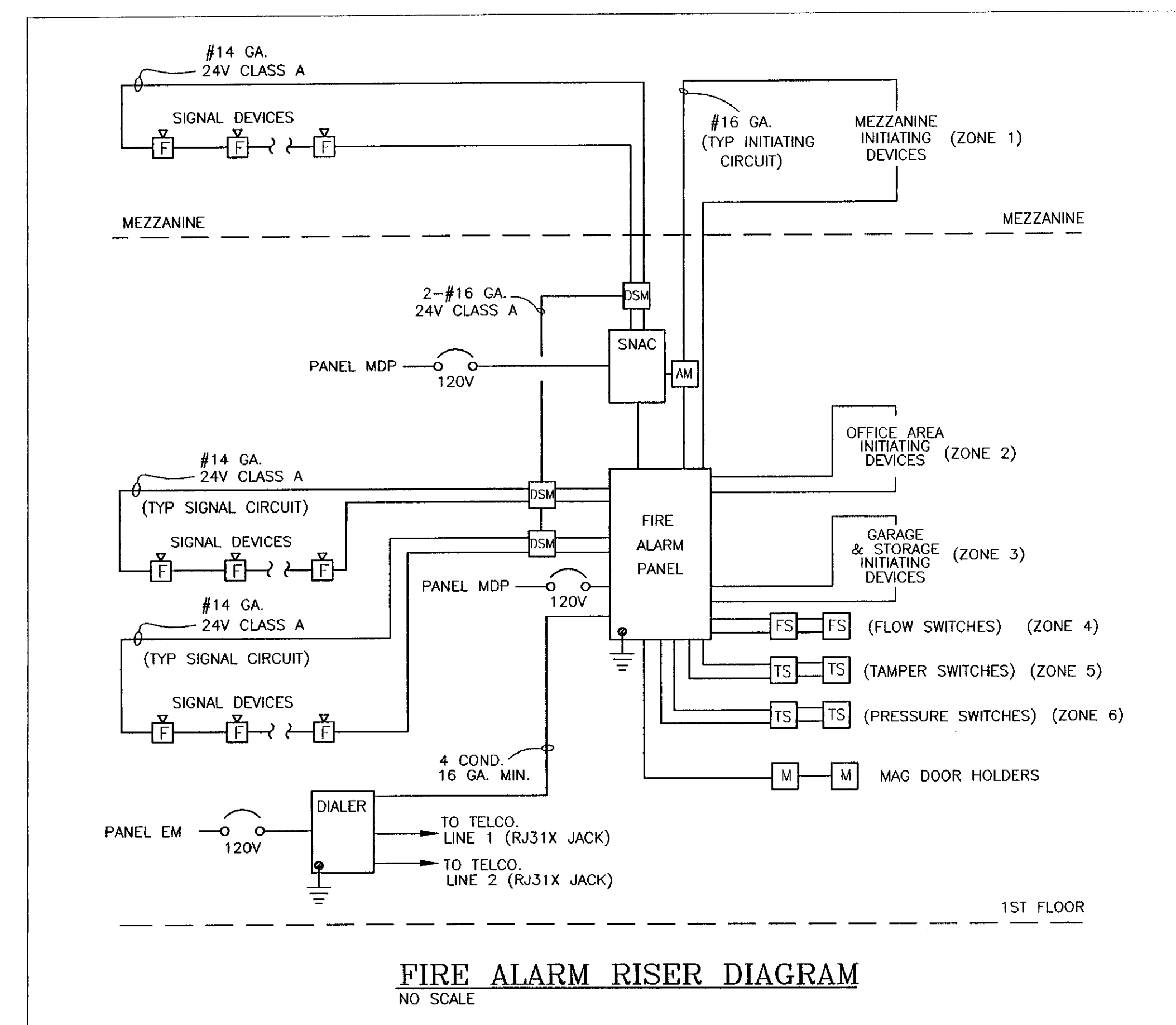
LIGHTING CONTACTOR WIRING DETAIL-LC1
NO SCALE



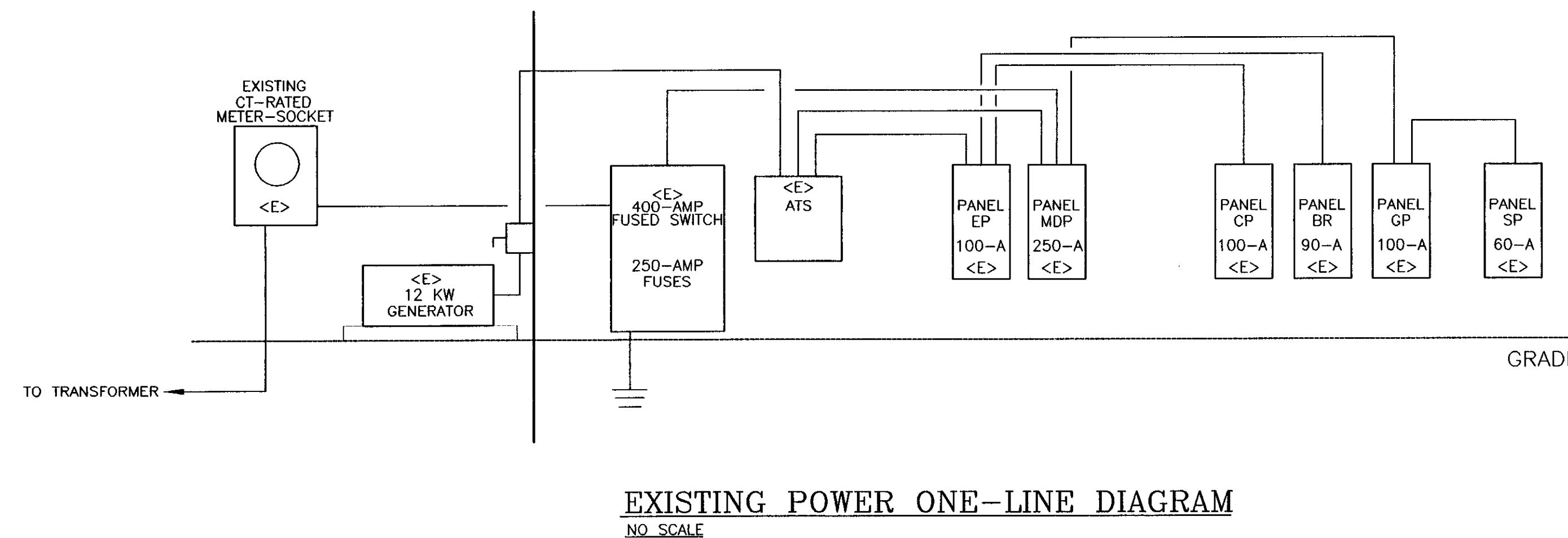
LIGHTING CONTACTOR WIRING DETAIL-LC2
NO SCALE



LIGHTING CONTACTOR WIRING DETAIL-LC3
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FIRE ALARM RISER DIAGRAM
NO SCALE



EXISTING POWER ONE-LINE DIAGRAM
NO SCALE