STATE OF VERMONT

DEPARTMENT OF BUILDINGS & GENERAL SERVICES

AGENCY OF ADMINISTRATION, MONTPELIER, VERMONT

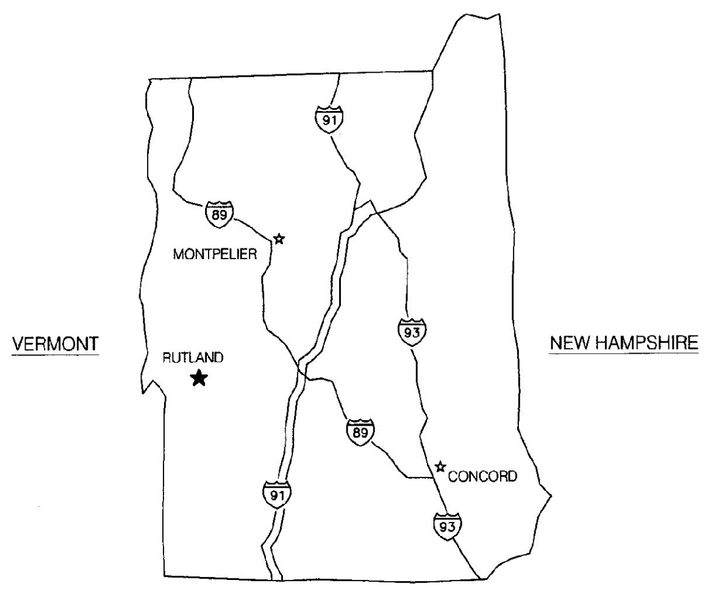
DEPARTMENT OF MOTOR VEHICLES
RUTLAND FACILITY RENOVATION & ADDITION

101 STATE PLACE
RUTLAND, VERMONT

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

DEPARTMENT OF MOTOR VEHICLES
120 STATE STREET
MONTPELIER, VERMONT 05603-0001
PATRICIA MCDONALD, COMMISIONER

Howard Dean, M.D.
Governor



PROJECT LOCATION MAP
NOT TO SCALE

ERTEL ASSOCIATES ARCHITECTS
15 CENTRAL STREET, WOODSTOCK, VERMONT 05091
TELEPHONE (802) 457 1602 FAX (802) 457 1750

LANE ASSOCIATES CONSULTING ENGINEERS, P.C.
51 KILLINGTON AVENUE,
RUTLAND, VERMONT 05701
TELEPHONE: (802)747-3346
FAX/MODEM: (802)747-3356

LIST OF DRAWINGS

ARCHITECTURAL

S1	SITE PLAN
X1	EXISTING PLAN & ELEVATIONS
A1	FLOOR PLAN
A2	BUILDING ELEVATIONS
A3	WALL SECTIONS, ATTIC PLAN
A4	REFLECTED CEILING PLAN, INTERIOR ELEVS. & DETAILS

MECHANICAL

M1	ATTIC PLAN - MECHANICAL DUCTWORK
M2	MAIN FLOOR PLAN - MECHANICAL DUCTWORK
M3	MAIN FLOOR PLAN - MECHANICAL HEATING
M4	MECHANICAL DETAILS
M5	MECHANICAL SCHEDULES

PLUMBING

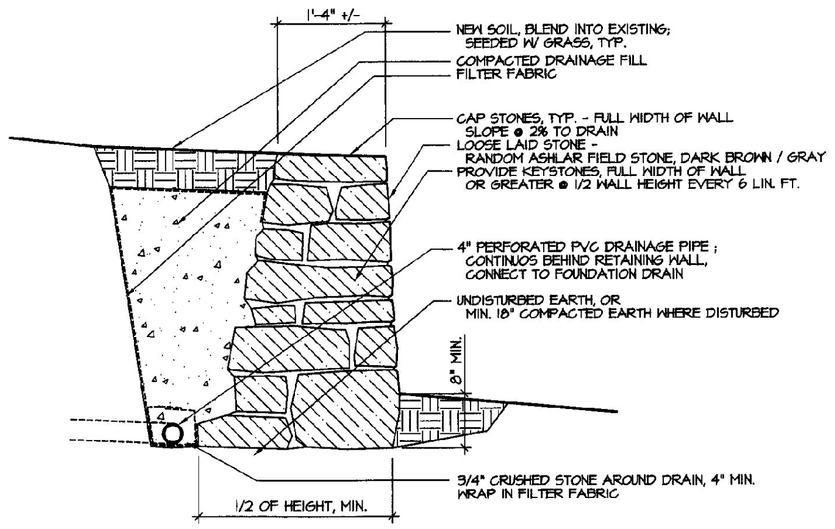
P1	MAIN FLOOR PLAN - PLUMBING

ELECTRICAL

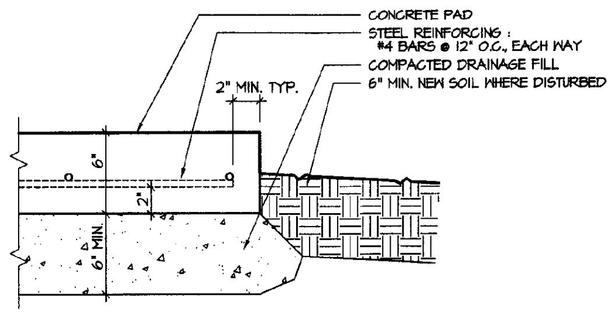
E1	MAIN FLOOR PLAN - LIGHTING
E2	MAIN FLOOR PLAN - POWER & SIGNAL
E3	FIRST FLOOR PLAN - ELECTRICAL REMOVALS

BID SET
DATE: MAY 2000

AS-BUILT
11/2/00
MEEHE MILLER
PROJECT MANAGER (BGS)



1 DETAIL OF STONE RETAINING WALL
3/4" = 1'-0"



2 DETAIL OF CONCRETE PAD
1 1/2" = 1'-0"

KEY
EXISTING CONTOUR
DEMO CONTOUR
NEW CONTOUR
DRAINAGE
+EX. 110.36 EXIST. GRADE SPOT ELEVATIONS
+ELEV. 108.2 NEW GRADE SPOT ELEVATIONS

NEW LOOSE-LAID STONE RETAINING WALL SEE DET. 1 THIS SHEET
NEW CONCRETE PAD T.O. SLAB ELEV. 100.0 SEE DWG. A1 FOR LOCATION SEE DET. 2 THIS SHEET
T.O. WALL 101.0
ELEV. 101.0
EX. 100.08
EXISTING TREES ALONG PROPERTY LINE ARE TO BE PROTECTED FROM DAMAGE DURING CONSTRUCTION
APPROXIMATE AREA EXISTING GRADE TO BE CUT BLEND NEW GRADES INTO EXISTING ; ALL DISTURBED AREAS TO BE SEEDED TO ESTABLISH GRASS LAWN
EX. 101.03
DRAINAGE SWALE, TYP. BLEND INTO EXISTING GRADES TO ENSURE POSITIVE DRAINAGE AWAY FROM BUILDING
ADDITION
EXISTING BUILDING
EX. 100.23
ELEV. 99.0
EX. 99.42
ELEV. 99.5
EX. 100.29
ELEV. 99.75
ELEV. 99.15
ELEV. 108.0
EX. 101.85
ELEV. 108.0
T.O. WALL 108.0
ELEV. 103.33
ELEV. 103.33
EX. 99.27
EX. 99.64
EX. 110.36
EX. 110.49
EX. 108.45
EX. 107.86
EX. 107.63
EX. 104.61
T.O. WALL = 103.0
EX. 100.70
EX. 99.13
EX. 99.23
EX. 99.32
EX. 99.67
EX. 99.10
EX. 100.21
EX. 98.98
NEW PLANTING, TYP. (3) PICEA GLAUCA (WHITE SPRUCE), 8'-10' HT. (4) PICEA GLAUCA (WHITE SPRUCE), 6'-7' HT. EXACT LOCATIONS OF TREES TO BE DETERMINED BY ARCHITECT IN THE FIELD
APPROXIMATE AREA OF NEW FILL CLEAR AND GRUB EXISTING TREES AND SHRUBS WITHIN AREA OF NEW FILL PROTECT ALL PLANTINGS NOT IN FILL AREA BLEND NEW GRADES INTO EXISTING GRADES MINIMUM 6" TOPSOIL ON ALL DISTURBED AREAS NEW TOPSOIL TO BE SEEDED WITH GRASS TO MATCH EXISTING
FOUNDATION DRAIN, TYP. , DRAIN TO DAYLIGHT UNDER STONE WALL
DRIVE TO SAND PILE
NEW LOOSE-LAID STONE RETAINING WALL SEE DETAIL 1
RELOCATE EXISTING VENT PIPE EXISTING MANHOLE COVERS TO REMAIN
PUBLIC PARKING
NEW WASTE & VENT PIPING - SEE DWG. P1
EXISTING WASTE & VENT PIPING
RESTORE FINISHED GRADING TO MATCH EXISTING, RE-SEED TO ESTABLISH LAWN AT ALL DISTURBED AREAS
CONSTRUCTION FENCE, TYP.
CONSTRUCTION LIMITS ; WORK IS TO BE LIMITED TO AREA DESIGNATED; FRONT ENTRY, DRIVE, AND ALL PARKING IS TO BE LEFT OPEN FOR USE BY THE PUBLIC
CONTRACTOR PARKING AND STAGING AREAS WILL BE DESIGNATED BY THE D.M.V. WITHIN 250' OF THE BUILDING
CONSTRUCTION FENCE
CONSTRUCTION LIMITS
APPROXIMATE LOCATION OF PROPERTY LINE
Door Threshold Elev.= 100.00' Assumed
EXISTING CONCRETE CURB & SIDEWALK TO REMAIN
EXISTING CONCRETE SIDEWALK TO REMAIN
DRIVE
PUBLIC PARKING

AS-BUILT

GRAPHIC SCALE
10 0 5 10 20 40
(IN FEET)
1 inch = 10 ft.

ERTEL ASSOCIATES ARCHITECTS
15 CENTRAL STREET WOODSTOCK, VERMONT 05091

DEPARTMENT OF MOTOR VEHICLES

RUTLAND, VERMONT

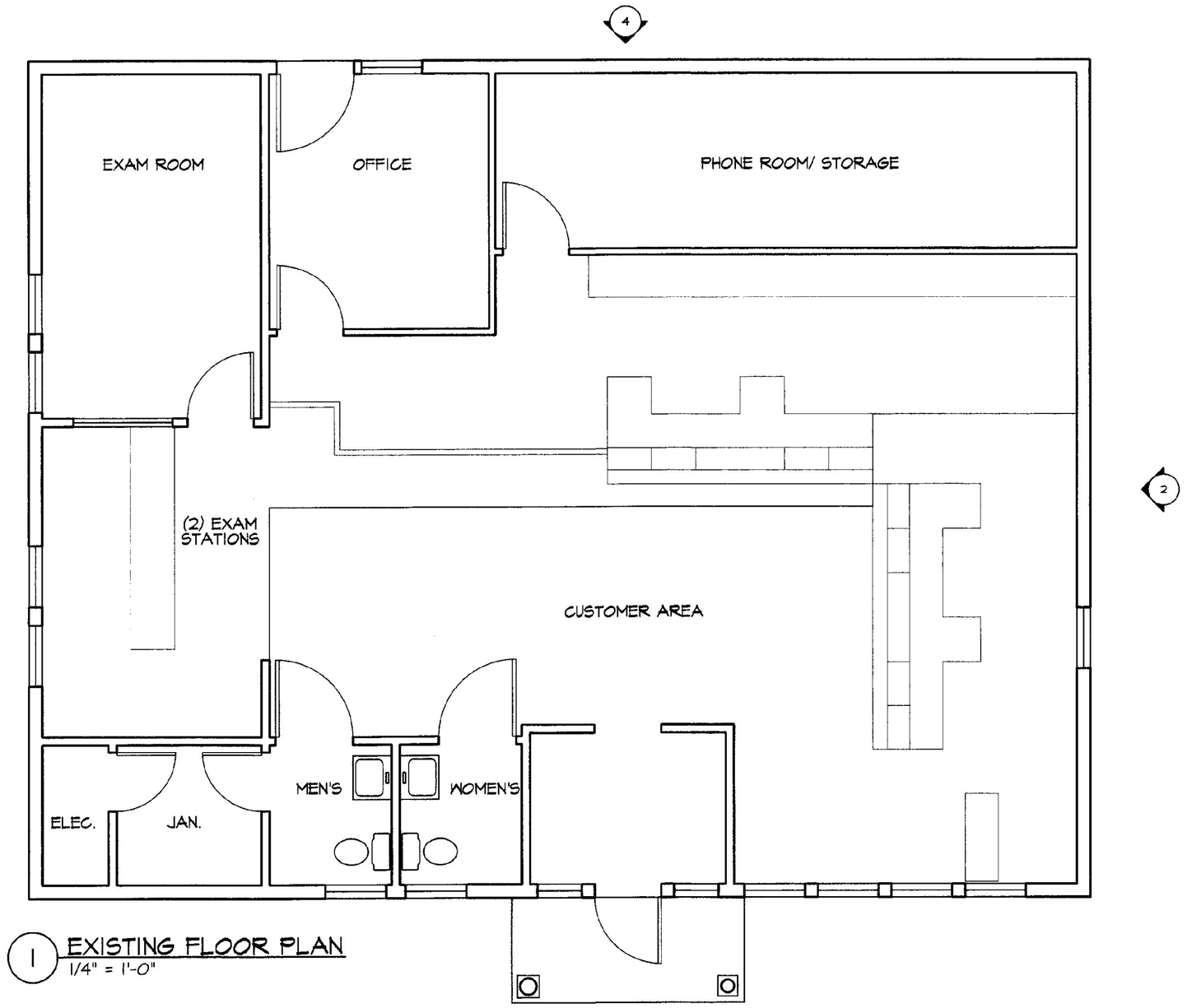
SITE PLAN

N MAG. N NOM.

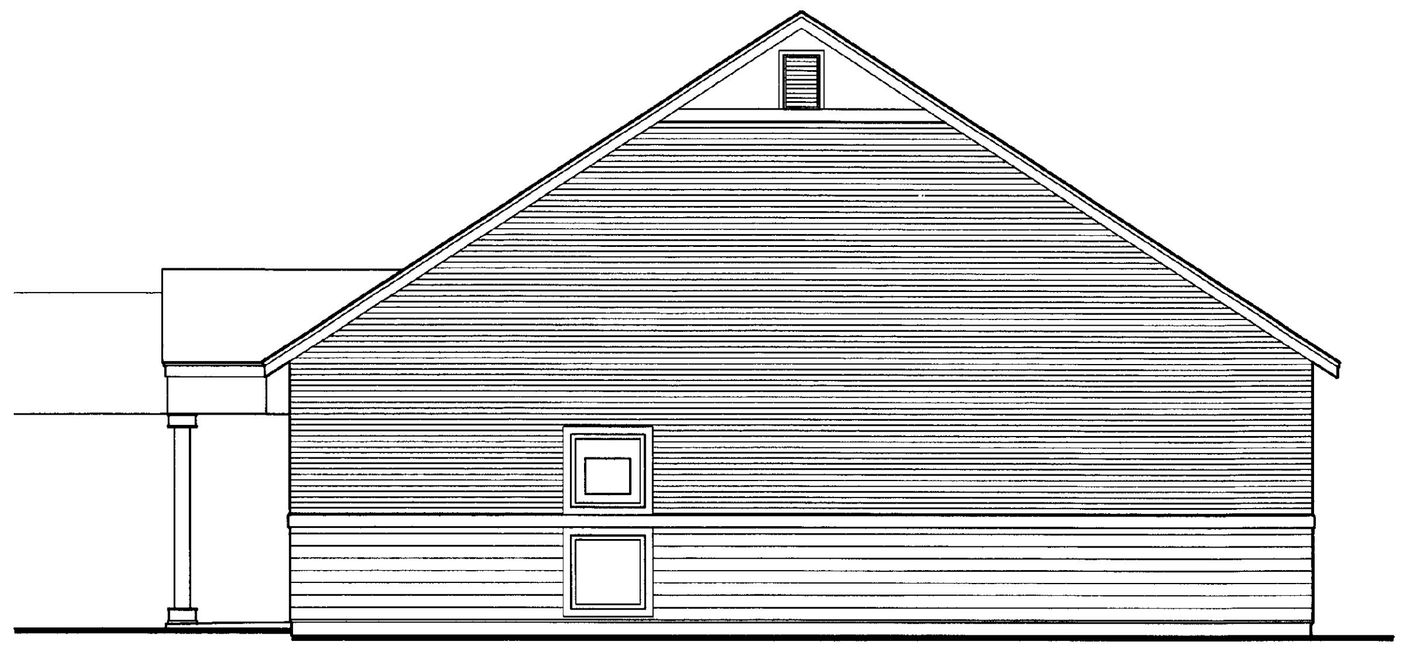
JOB #:
CADD #: DMV/S-1
BY: CBM/CAD

SCALE : 1"=10'-0"
DATE: MAY 2000
REVISIONS:

S1



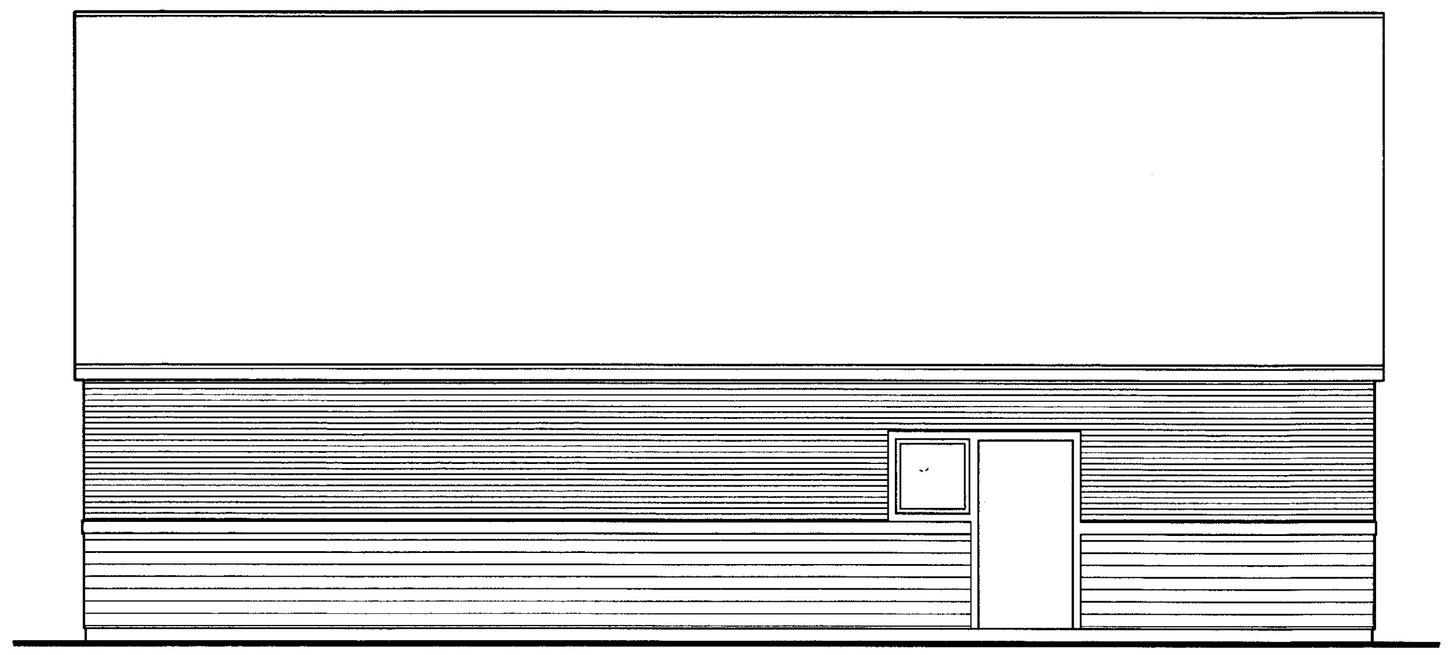
1 EXISTING FLOOR PLAN
1/4" = 1'-0"



2 EXISTING NORTH ELEVATION
1/4" = 1'-0"



3 EXISTING EAST ELEVATION
1/4" = 1'-0"



4 EXISTING WEST ELEVATION
1/4" = 1'-0"

AS-BUILT

/ /

ERTEL ASSOCIATES ARCHITECTS
15 CENTRAL STREET WOODSTOCK, VERMONT 05091

DEPARTMENT OF MOTOR VEHICLES

RUTLAND, VERMONT

EXISTING FLOOR PLAN AND ELEVATIONS

N ACT. N NOM

JOB #:
CADD #: DMV/ A2-1
BY: SPM/CAD

SCALE : 1/4"=1' 0"
DATE: MAY 2000
REVISIONS:

X1

FINISH SCHEDULE

	ROOM	FLOOR	WALLS	CEILING
01	MAIN SPACE			NEW TILES
	PUBLIC AREA (INCLUDES EXAM STATIONS, SEATING AREA, PHOTO STATIONS)	EXIST./ NEW V.C.T.	EXIST. / NEW G.W.B., PTD.	EXIST./ NEW A.C.T.
	CUSTOMER SERVICE AREA	EXIST./ NEW CPT.	EXIST. / NEW G.W.B., PTD.	NEW TILES EXIST./ NEW A.C.T.
02	ENTRY	EXIST. V.C.T.	EXIST. G.W.B. PTD	EXIST. A.C.T.
03	WOMEN'S	EXIST. V.C.T.	EXIST. G.W.B.	EXIST. A.C.T.
04	MEN'S	EXIST. V.C.T.	EXIST. G.W.B.	EXIST. A.C.T.
05	JANITOR	EXIST. V.C.T.	EXIST. G.W.B.	EXIST. A.C.T.
06	ELECTRICAL	EXIST. V.C.T.	EXIST. G.W.B.	EXIST. A.C.T.
07	EXAM ROOM	EXIST. CARPET	EXIST. G.W.B.	NEW TILES EXIST./ NEW A.C.T.
08	WAITING ROOM	EXIST. CARPET	EXIST./ NEW G.W.B., PTD.	EXIST. A.C.T. (CUT & PATCH)
09	PHONE ROOM	NEW CARPET	EXIST./ NEW G.W.B., PTD.	EXIST. A.C.T. (CUT & PATCH)
10	STORAGE ROOM	EXIST. V.C.T.	EXIST./ NEW G.W.B., PTD.	EXIST. A.C.T. (CUT & PATCH)
11	OFFICE	NEW CPT.	NEW G.W.B., PTD.	NEW A.C.T.
12	BREAK ROOM	NEW V.C.T.	NEW G.W.B., PTD.	NEW A.C.T.
13	BOILER ROOM	SEALED CONCRETE	NEW G.W.B., PTD./ SEALED CONCRETE	NEW G.W.B., PTD.
14	STAFF W.C.	NEW V.C.T.	NEW G.W.B., PTD.	NEW A.C.T.
15	ATTIC MECHANICAL ROOM	UNFINISHED PLYWOOD	UNFINISHED PLYWOOD	NEW A.C.T.

INTERIOR TRIM :

WALL BASE :
ALL EXISTING WOOD WALL BASE TO REMAIN WHERE POSSIBLE
ALL NEW WALLS TO HAVE NEW WOOD WALL BASE, PTD., TO MATCH (+/- 4" HIGH)
CUT & PATCH EXISTING WALL BASE WHERE REQUIRED FOR NEW WORK

DOOR & WINDOW TRIM :
ALL EXISTING WOOD DOOR & WINDOW TRIM TO REMAIN WHERE POSSIBLE
ALL NEW OPENINGS TO HAVE NEW FLAT WOOD TRIM, PTD., TO MATCH EXISTING
CUT & PATCH EXISTING DOOR & WINDOW TRIM WHERE REQUIRED FOR NEW WORK

INTERIOR & EXTERIOR PAINTING :

ALL NEW WORK TO BE PAINTED ACCORDING TO SPECIFICATIONS
SEE SPECIFICATIONS FOR PAINTING AT CUTTING AND PATCHING
EXISTING PAINTED SURFACES WITH NO WORK ARE NOT TO BE PAINTED

WINDOW SCHEDULE :

W1	NEW 6' x 6' FIXED WINDOW
W2	NEW 6' x 6' FIXED WINDOW
W3	NEW 6' x 6' FIXED WINDOW
W4	NEW AWNING WINDOW TO MATCH EXISTING
W5	NEW AWNING WINDOW TO MATCH EXISTING
W6	REUSE SALVAGED WINDOW FROM NORTH SIDE
W7	REUSE SALVAGED WINDOW FROM NORTH SIDE
W8	NEW AWNING WINDOW TO MATCH EXISTING
W9	NEW AWNING WINDOW TO MATCH EXISTING
W10	NEW AWNING WINDOW TO MATCH EXISTING
W11	NEW AWNING WINDOW TO MATCH EXISTING
W12	NEW AWNING WINDOW TO MATCH EXISTING

WINDOW TRIM :

INTERIOR AND EXTERIOR WINDOW TRIM IS TO BE FLAT WOOD CASINGS, PAINTED, TO MATCH EXISTING

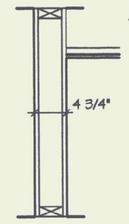
DOOR SCHEDULE :

NUMBER	SIZE	TYPE/NOTES	HARDWARE SET	FIRE RATING
D01	+/- 3'-0" x 7'-0" EXISTING	EXISTING EXTERIOR DOOR	NEW ~~LEVERS ON EXISTING~~ LOCKSET	-
D02	+/- 3'-0" x 6'-8" EXISTING	EXISTING	NEW ~~LEVERS ON EXISTING~~ PRIVACY SET	-
D03	+/- 3'-0" x 6'-8" EXISTING	EXISTING	NEW ~~LEVERS ON EXISTING~~ PRIVACY SET	-
D04	+/- 2'-8" x 6'-8" EXISTING	EXISTING	~~EXISTING~~ NEW LOCKSET	'B' LABEL (EXISTING)
D05	+/- 2'-8" x 6'-8" EXISTING	EXISTING	EXISTING	'B' LABEL (EXISTING)
D06	EXISTING	EXISTING	NEW ~~LEVERS ON EXISTING~~ SET	-
D07	+/- 3'-0" x 6'-8" EXISTING	RELOCATE & RE-USE EXISTING DOOR & FRAME	NEW ~~LEVERS ON EXISTING~~ SET	-
D08	+/- 3'-0" x 7'-0" EXISTING	EXISTING EXTERIOR DOOR	EXISTING	-
D09	3'-0" x 6'-8"	NEW FLUSH WOOD DOOR & FRAME (REMOVE & SALVAGE EXISTING DOOR & FRAME IN THIS LOCATION)	NEW PASSAGE SET ; # 1	-
D10	+/- 3'-0" x 6'-8"	RELOCATE & RE-USE EXISTING METAL DOOR & FRAME FROM LOCATION OF NEW DO# H.M.	NEW LOCKSET ; # 2	'B' LABEL (EXISTING)
D11	3'-0" x 6'-8"	NEW FLUSH WOOD DOOR & FRAME	NEW LOCKSET ; # 2	3/4 HR
D12	3'-0" x 6'-8"	NEW FLUSH WOOD DOOR & FRAME	NEW LOCKSET ; # 2	-
D13	3'-0" x 6'-8"	NEW FLUSH WOOD DOOR & FRAME	NEW PASSAGE SET ; # 1	~~20 MIN~~ 3/4 HR
D14	3'-0" x 7'-0"	NEW INSULATED FLUSH METAL DOOR	NEW EXTERIOR LOCKSET ; # 4	-
D15	3'-0" x 7'-0"	NEW INSULATED FLUSH METAL DOOR	NEW EXTERIOR LOCKSET ; # 4	-
D16	3'-0" x 6'-8"	NEW FLUSH WOOD DOOR & FRAME UNDERCUT DOOR 3/4"	NEW PRIVACY SET ; # 3	-
D17	2'-8" x 6'-8"	NEW INSULATED FLUSH METAL DOOR	NEW PASSAGE SET ; # 1	3/4 HR

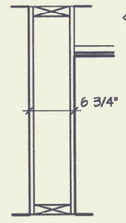
DOOR FRAME & TRIM :

ALL DOOR FRAMES ARE TO BE WOOD TO MATCH EXISTING FRAMES ; INTERIOR AND EXTERIOR DOOR TRIM IS TO BE FLAT WOOD CASING TO MATCH EXISTING TRIM, PAINTED TO MATCH

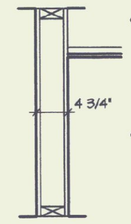
PARTITION TYPES : SEE KEYS ON DRAWING



1A — 2x4 PARTITION ; W/ ACOUSTIC INSULATION :
2 x 4 WOOD STUDS @ 16" O.C.
5/8" GYPSUM WALL BOARD EA. SIDE
3 1/2" FIBERGLASS BATT ACOUSTIC INSULATION
SEAL UNDER PLATE, AT PERIMETER OF G.W.B., AND AT ALL OPENINGS

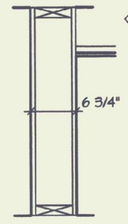


2A — 2x6 PARTITION W/ ACOUSTIC INSULATION :
2 x 6 WOOD STUDS @ 16" O.C.
5/8" GYPSUM WALL BOARD EA. SIDE
6 1/4" FIBERGLASS BATT ACOUSTIC INSULATION
SEAL UNDER PLATE, AT PERIMETER OF G.W.B., AND AT ALL OPENINGS



3 — 1-HR PARTITION ;
2 x 4 WOOD STUDS @ 16" O.C.
5/8" FIRE RESISTANT G.W.B. EA. SIDE
STUDS AND G.W.B. EXTEND TO CEILING ABOVE
PROVIDE FIRE STOPPING AND DRAFT STOPPING BETWEEN TOP OF PARTITION AND FLOOR JOIST SPACE ABOVE

3A — W/ ACOUSTIC INSULATION ;
3 1/2" FIBERGLASS BATT ACOUSTIC INSULATION
SEAL UNDER PLATE, AT PERIMETER OF G.W.B., AND AT ALL OPENINGS



4A — 1-HR 2x6 PARTITION W/ ACOUSTIC INSULATION :
2 x 6 WOOD STUDS @ 16" O.C.
5/8" FIRE RESISTANT G.W.B. EA. SIDE
STUDS AND G.W.B. EXTEND TO CEILING ABOVE
PROVIDE FIRE STOPPING AND DRAFT STOPPING BETWEEN TOP OF PARTITION AND FLOOR JOIST SPACE ABOVE
6 1/4" FIBERGLASS BATT ACOUSTIC INSULATION
SEAL UNDER PLATE, AT PERIMETER OF G.W.B., AND AT ALL OPENINGS

GENERAL NOTES

1. CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS IN THE FIELD. CONSULT ARCHITECT REGARDING DISCREPANCIES
2. ALL DIMENSIONS ARE TO FACE OF FRAMING OR CONCRETE, UNLESS OTHERWISE INDICATED.
3. FACILITY IS TO BE FULLY OPERATIONAL DURING REGULAR OFFICE HOURS - SEE NOTES 'A' AND 'B', AND SPECIFIACTIONS FOR REQUIREMENTS

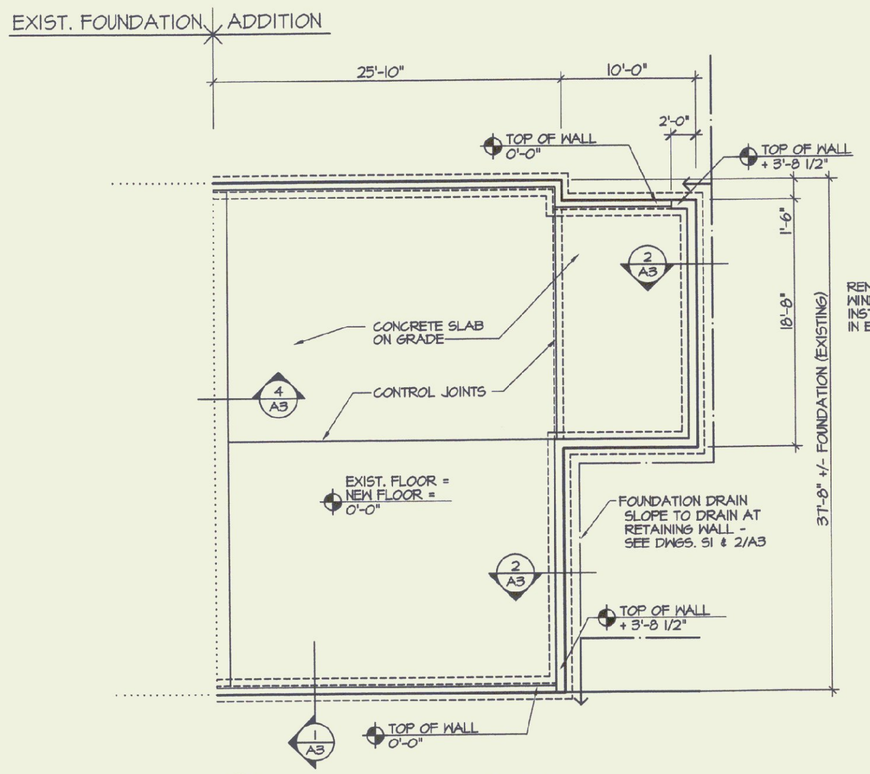
CONSTRUCTION NOTES :

A. REMOVE SECTION OF EXSTING CABINET ;
REMOVE (3) SECTION OF LOWER CABINET, INCLUDING TOP, PARTITIONS, SHELVES AND BASE
CUT PLASTIC LAMINATE TOP @ BACKSPLASH CLEANLY, IN PLACE
FINISH EXPOSED END OF TOP & SPLASH W/ PLASTIC LAMINATE TO MATCH
APPLY NEW END PANEL OVER EXISTING PARTITION ; 3/4" BIRCH VENEER PLYWOOD W/ POPLAR EDGE BAND
PATCH AS REQUIRED, PAINT END OF CABINET TO MATCH

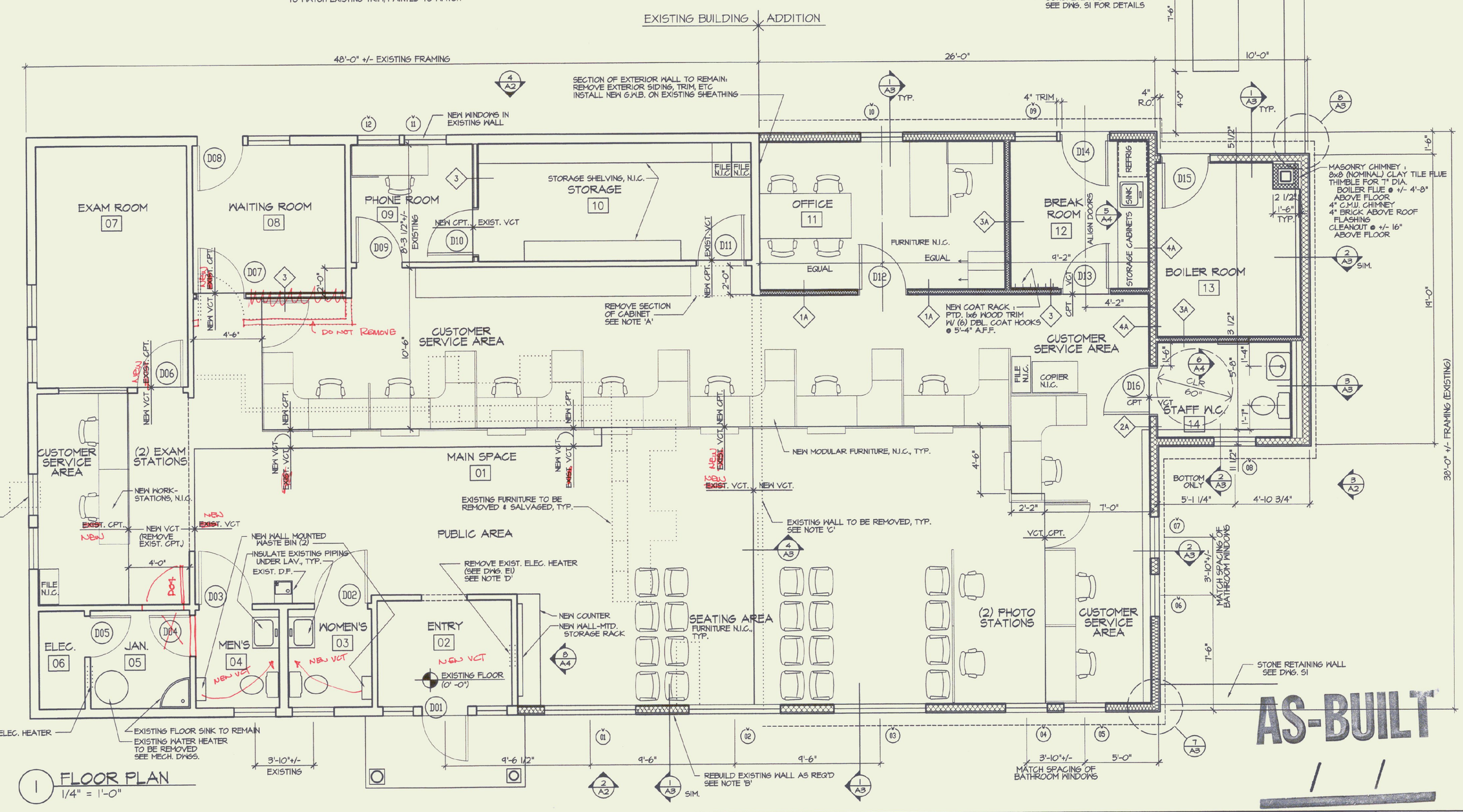
B. REBUILD EXISTING WALL AS REQUIRED ;
REMOVE EXTERIOR & INTERIOR FINISH AS REQUIRED TO ACHIEVE WALL CONSTRUCTION PER SECTION 1/A3
ERECT TEMPORARY BARRIER ON INTERIOR TO KEEP NOISE, DUST, AND OTHER DISRUPTIONS TO THE USE OF THE EXISTING FACILITY

C. REMOVE EXISTING WALL ;
DEMOLITION OF EXISTING EXTERIOR NORTH WALL SHOULD NOT BE DONE UNTIL THE LATEST POSSIBLE TIME TO AVOID NOISE, DUST OR OTHER DISRUPTIONS TO THE USE OF THE EXISTING FACILITY.

D. REMOVE EXISTING ELECTRIC HEATER ;
FILL OPENING W/ WOOD FRAMING TO MATCH, PATCH IN G.W.B., FINISH TO MATCH EXISTING WALL, PAINT WHOLE WALL



2 FOUNDATION PLAN
1/8" = 1'-0"



1 FLOOR PLAN
1/4" = 1'-0"

AS-BUILT

ERTEL ASSOCIATES ARCHITECTS
15 CENTRAL STREET WOODSTOCK, VERMONT 05091

DEPARTMENT OF MOTOR VEHICLES

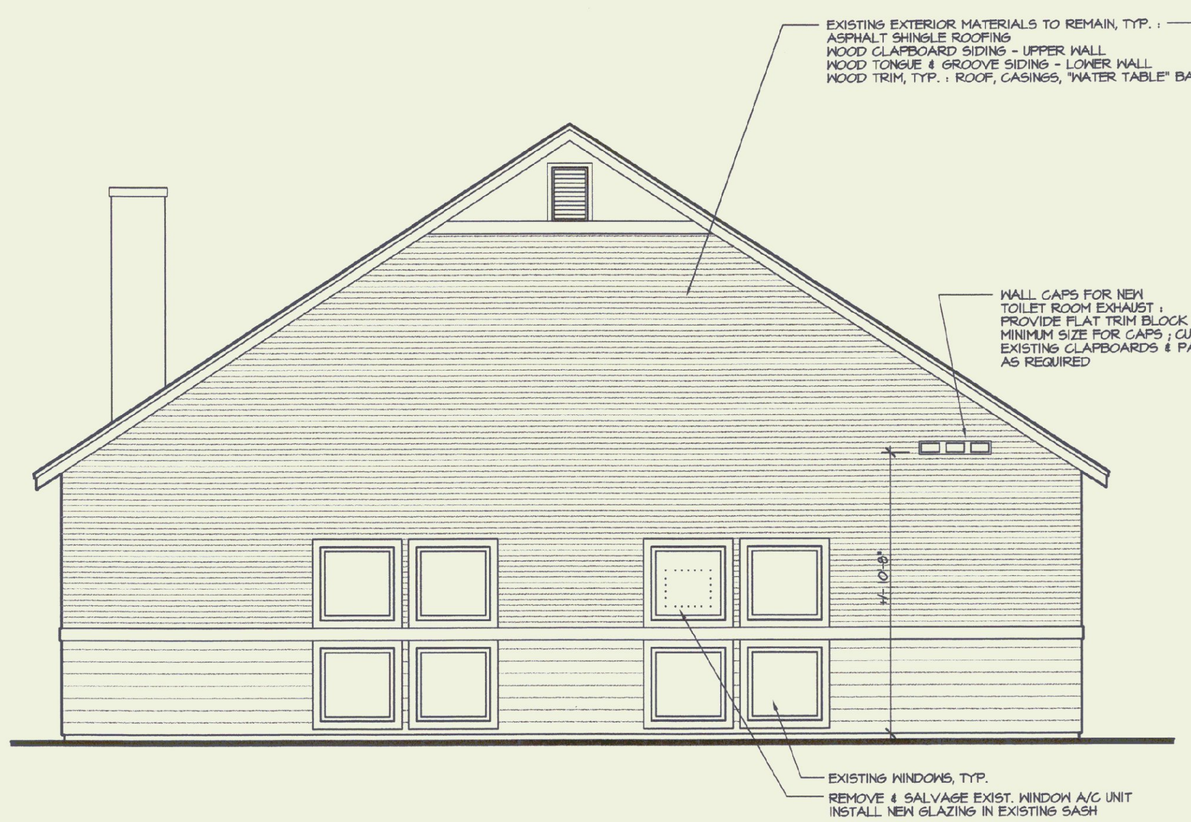
RUTLAND, VERMONT

FLOOR PLAN

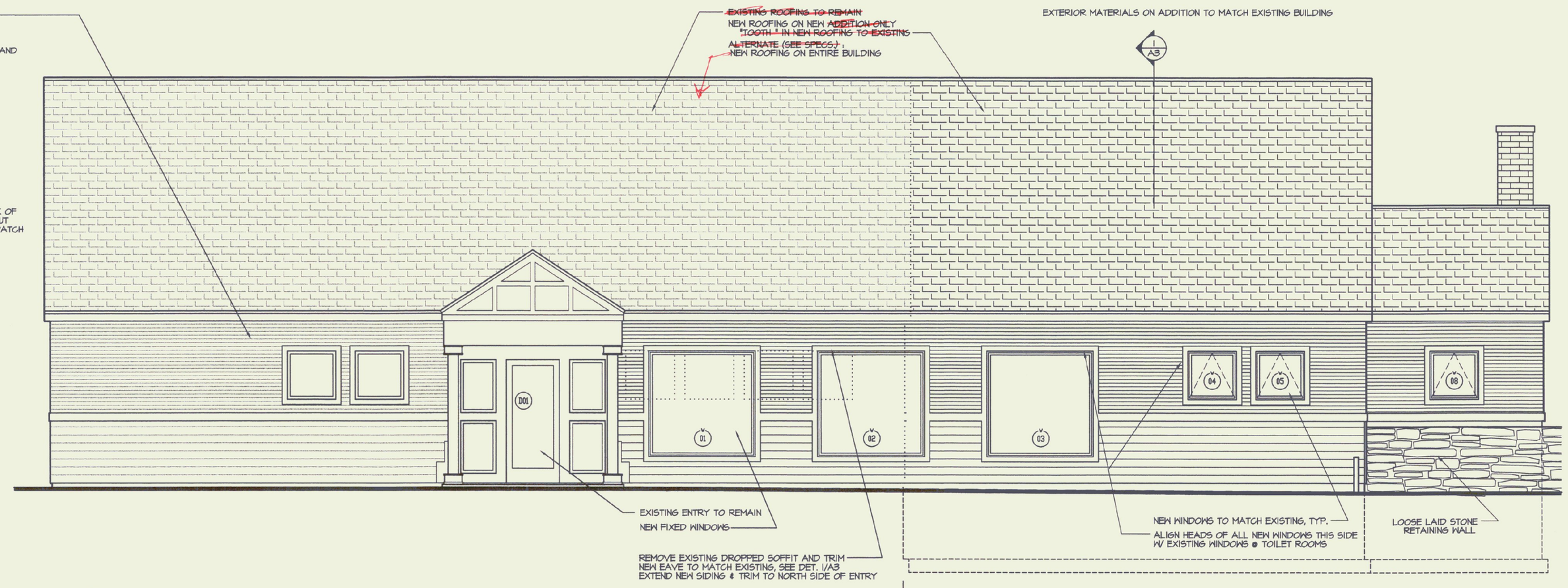
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CADD #: DMV/ A2-1
BY: CBM/CAD

SCALE : 1/4"=1' 0"
DATE: MAY 2000
REVISIONS:

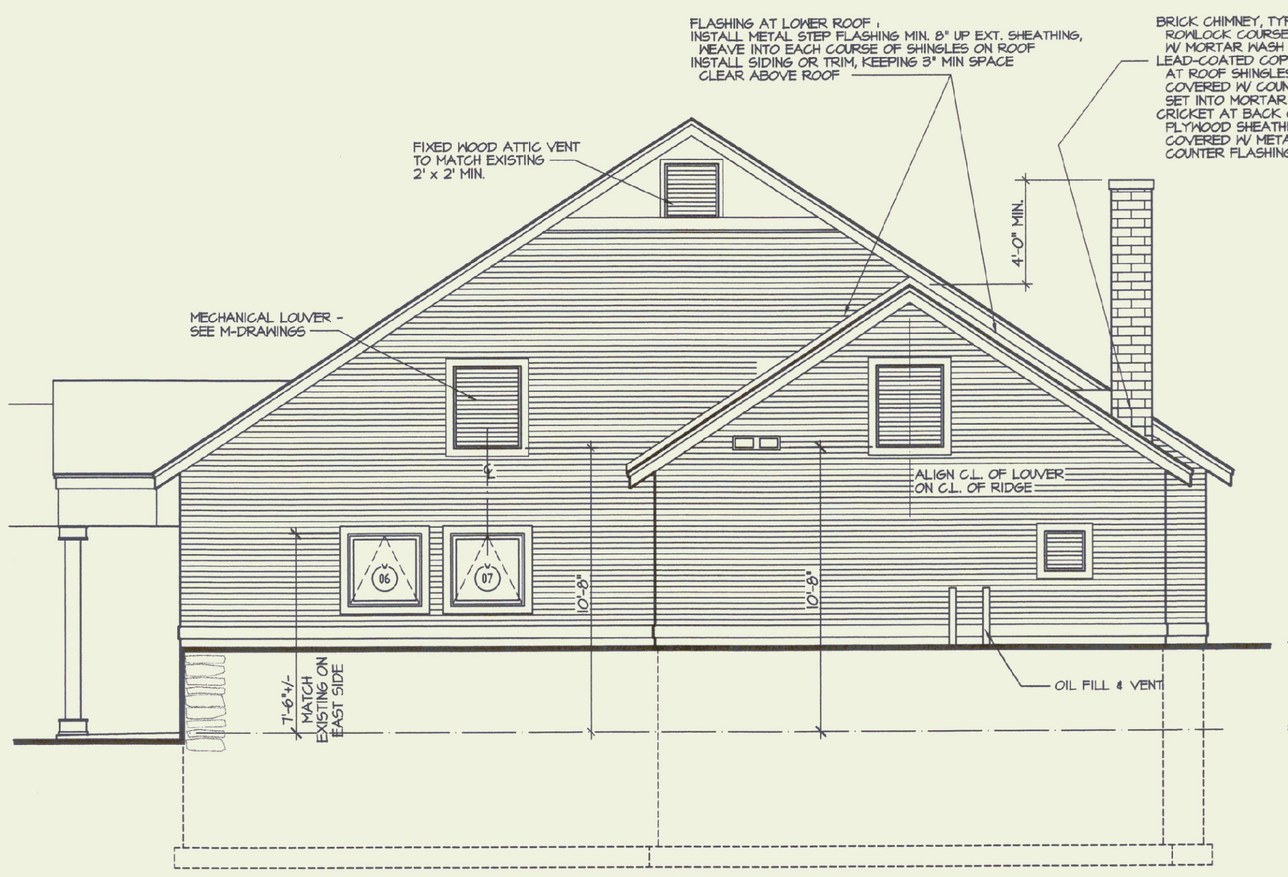
A1



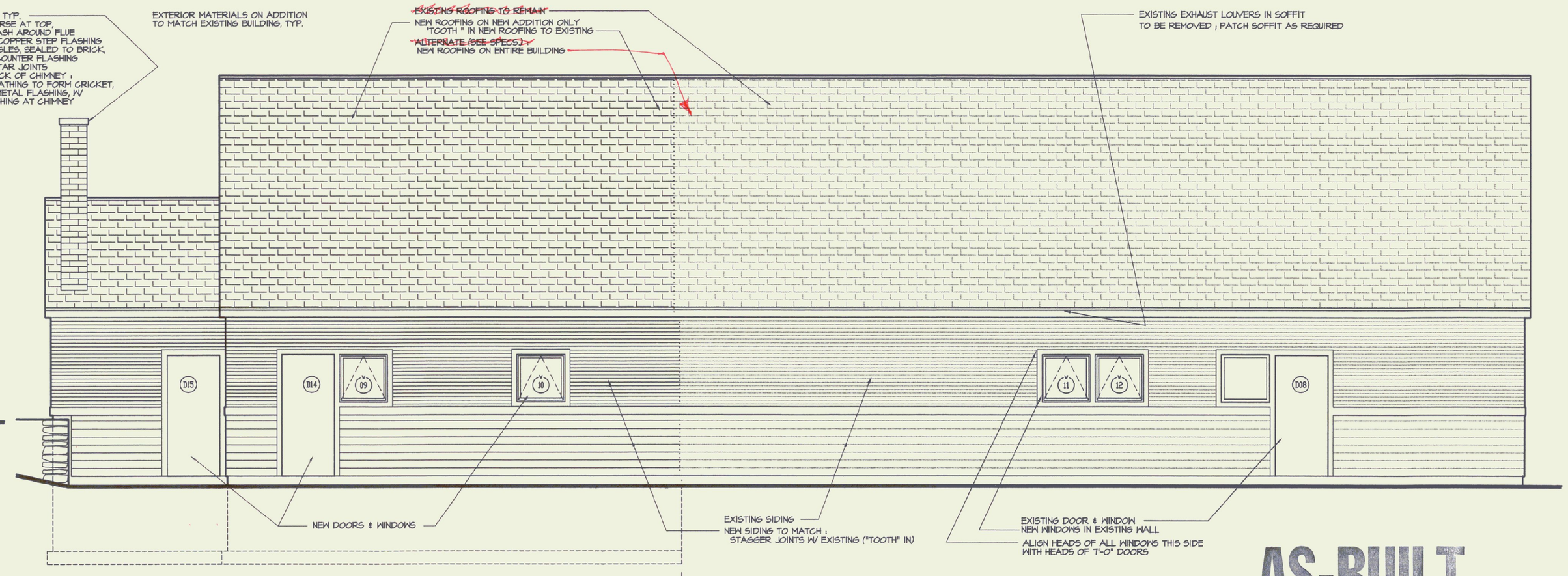
1 SOUTH ELEVATION
1/4" = 1'-0"



2 EAST ELEVATION
1/4" = 1'-0"



3 NORTH ELEVATION
1/4" = 1'-0"



4 WEST ELEVATION
1/4" = 1'-0"

AS-BUILT

/ /

ERTEL ASSOCIATES ARCHITECTS
15 CENTRAL STREET WOODSTOCK, VERMONT 05091

DEPARTMENT OF MOTOR VEHICLES

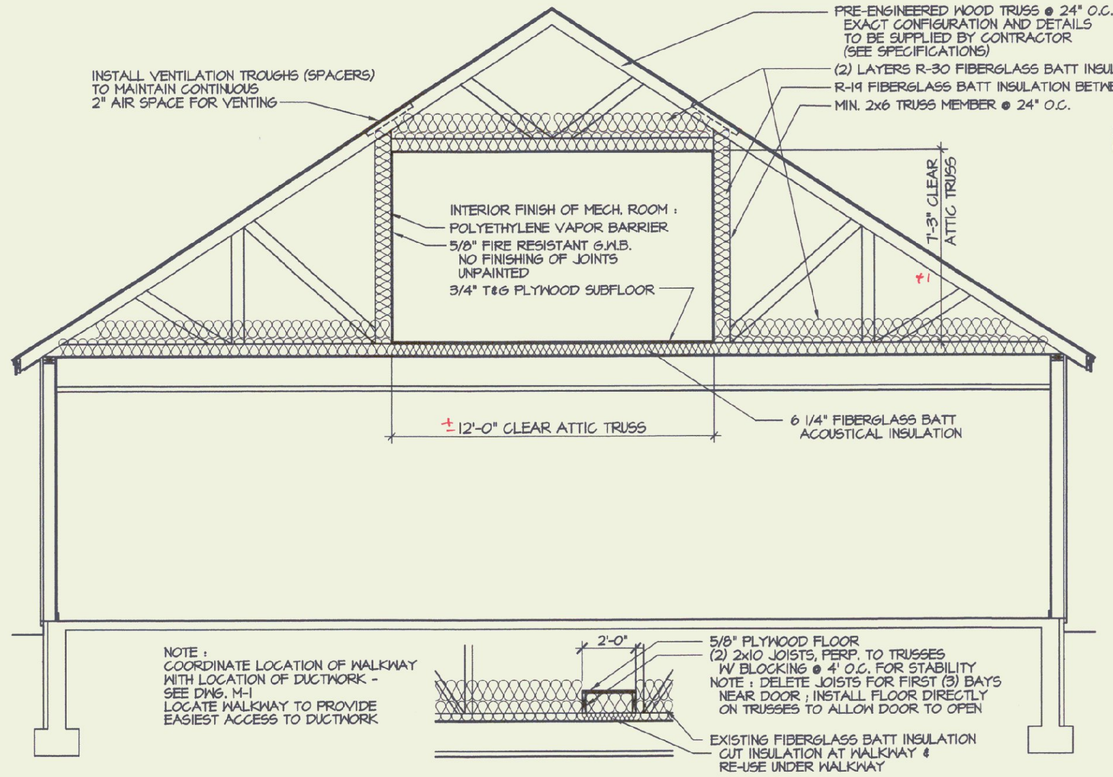
RUTLAND, VERMONT

BUILDING ELEVATIONS

JOB #:
CADD #: DMV/ A2-1
BY: CBM/CAD

SCALE : 1/4"=1' 0"
DATE: MAY 2000
REVISIONS:

A2



Design Loading for Trusses :
(see specifications)

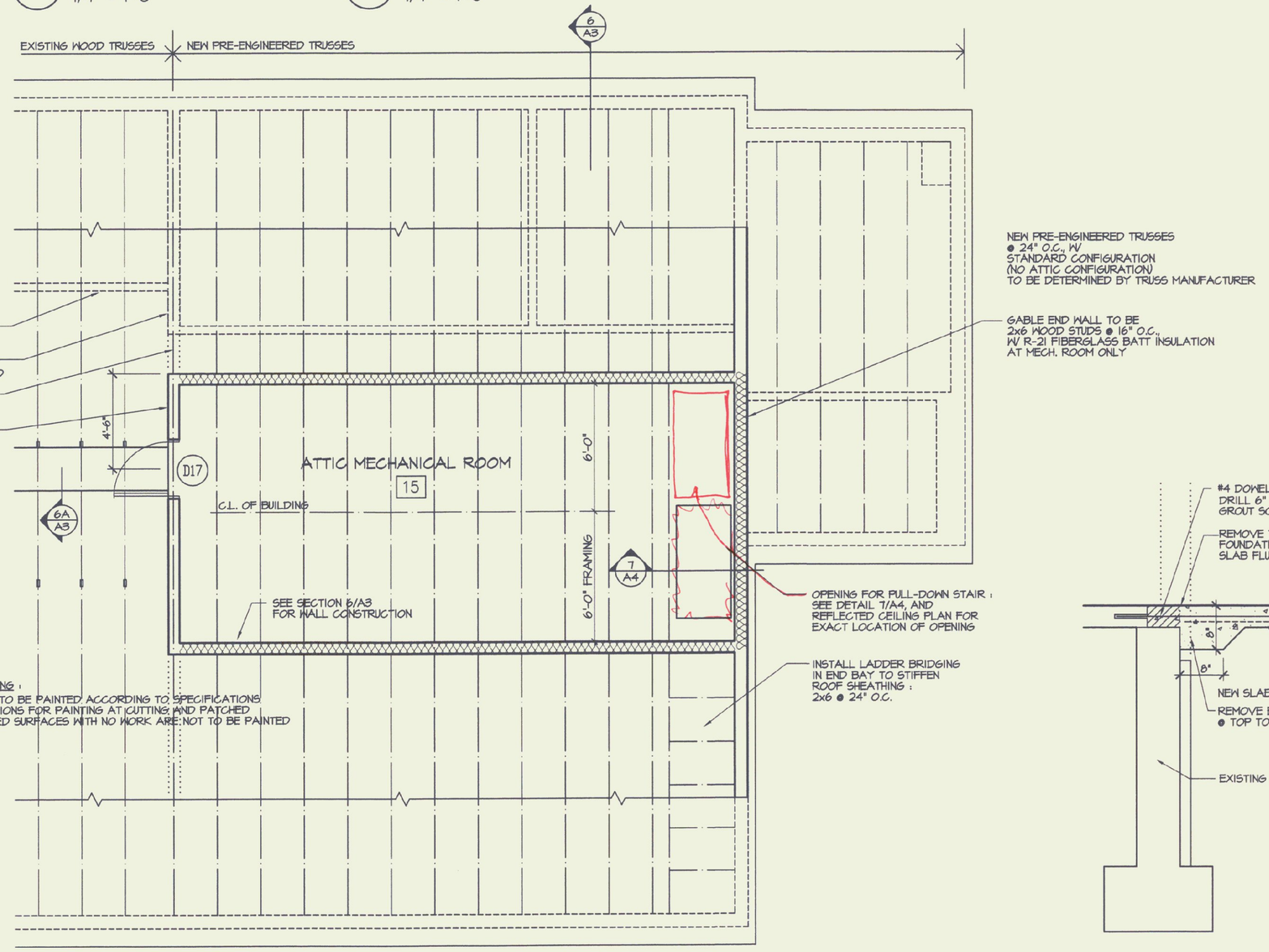
1. Design trusses to withstand design loads without deflections greater than the following:
   a. Vertical deflection of 1/240 of span due to total load.
   b. Horizontal deflection at reactions of 1-1/4 inches.

2. Design trusses for the following design loads:

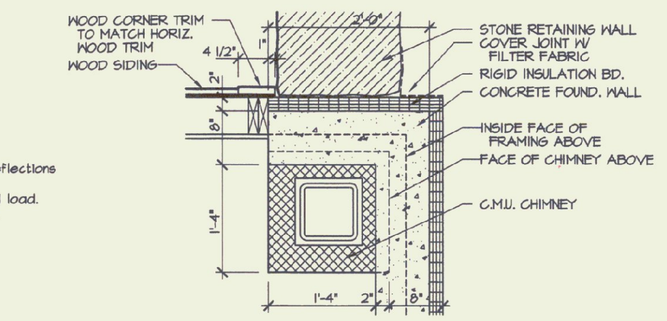
   a. Dead loads: Roof and floor sheathing, 2.5 psf.
   b. Dead loads: Joists and trusses, 5 psf.
   c. Dead loads: Ceiling, 4 psf.
   d. Dead loads: Roofing, 5 psf.
   e. Mechanical equipment loads:
      1) AHU-1 264 lbs. Floor mounted
      2) AHU-2 232 lbs. Floor mounted
      3) DS-1 75 lbs. Ceiling hung
      4) DS-2 75 lbs. Ceiling hung
      5) RF-1 160 lbs. Ceiling hung
      6) RF-2 160 lbs. Ceiling hung
   f. Live loads: Roof snow load 50 psf plus drifts.
   g. Live loads: Attic floor, 20 psf.
   h. Wind load, 80 mph wind speed, exposure B, on overall building, 20 psf.
   i. Wind load: Uplift on roof trusses 0 psf.
   j. Wind load: Components within salient corners, 20 psf.
   k. Wind load: Components beyond salient corners, 16 psf.
   l. Salient corner or edge includes the first 10 feet of wall or roof from corners, ridges, eaves and rakes.

6 ATTIC SECTION
1/4" = 1'-0"

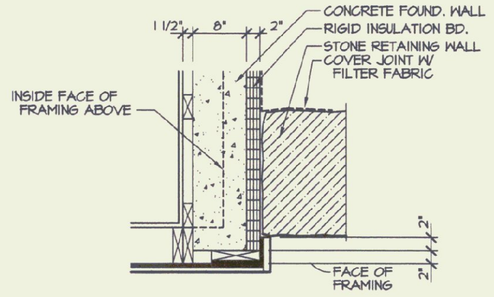
6A WALKWAY SECTION
1/4" = 1'-0"



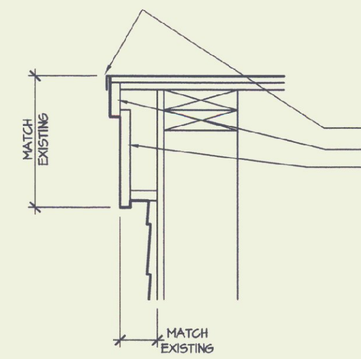
5 ATTIC PLAN
1/4" = 1'-0"



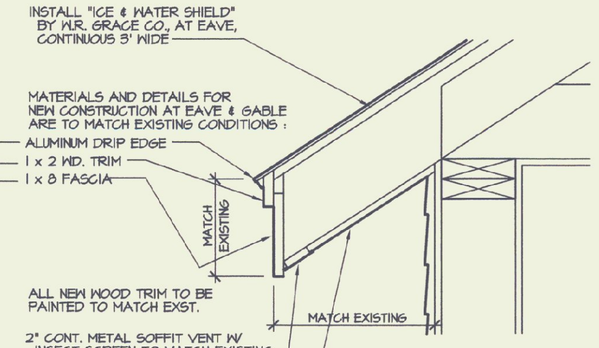
8 DETAIL @ N.W. CORNER
3/4" = 1'-0"



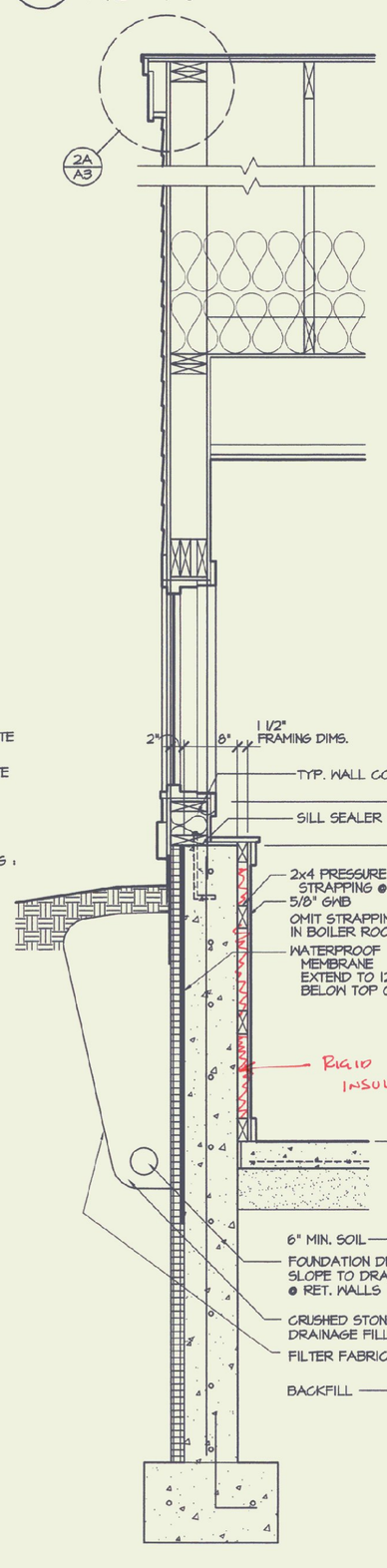
7 DETAIL @ N.E. CORNER
3/4" = 1'-0"



2A TYP. GABLE DETAIL
1 1/2" = 1'-0"

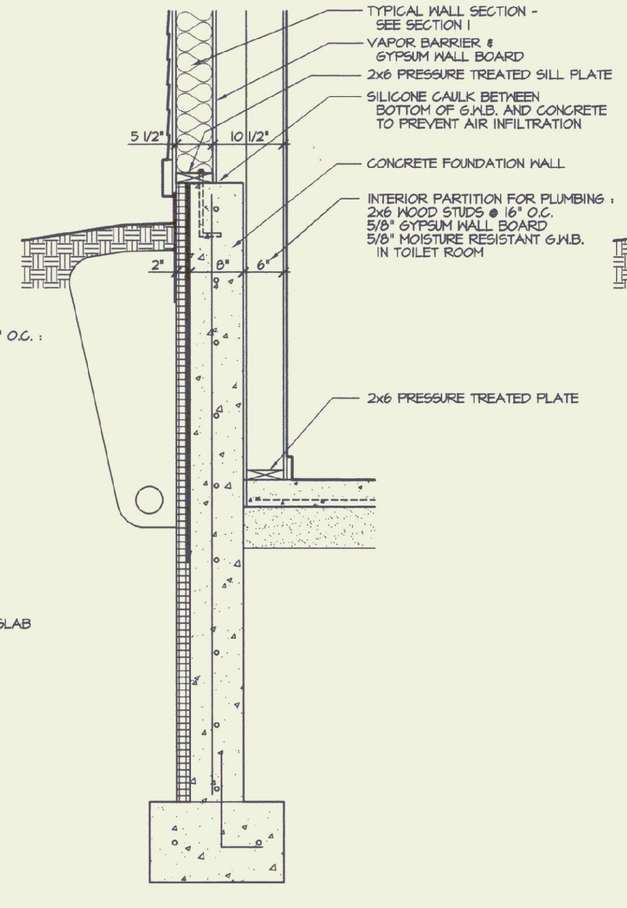


1A TYPICAL EAVE DETAIL
1 1/2" = 1'-0"

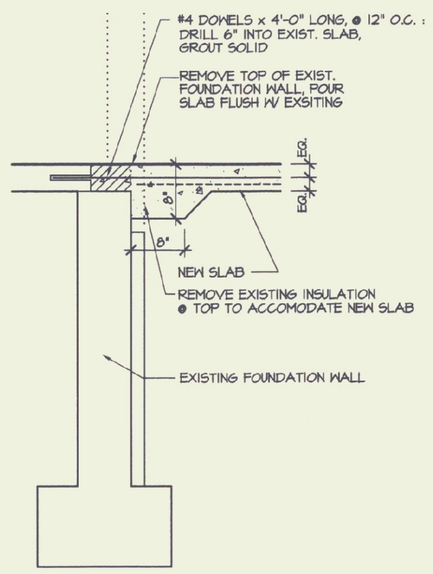


SECTION @ N. WALL (SIM @ E. WALL TOILET)
3/4" = 1'-0"

1 TYPICAL WALL SECTION
3/4" = 1'-0"



3 SECTION @ TOILET ROOM
3/4" = 1'-0"



4 SLAB @ EXIST./NEW
3/4" = 1'-0"

AS-BUILT
/ /

ERTEL ASSOCIATES ARCHITECTS
15 CENTRAL STREET WOODSTOCK, VERMONT 05091

DEPARTMENT OF MOTOR VEHICLES
RUTLAND, VERMONT

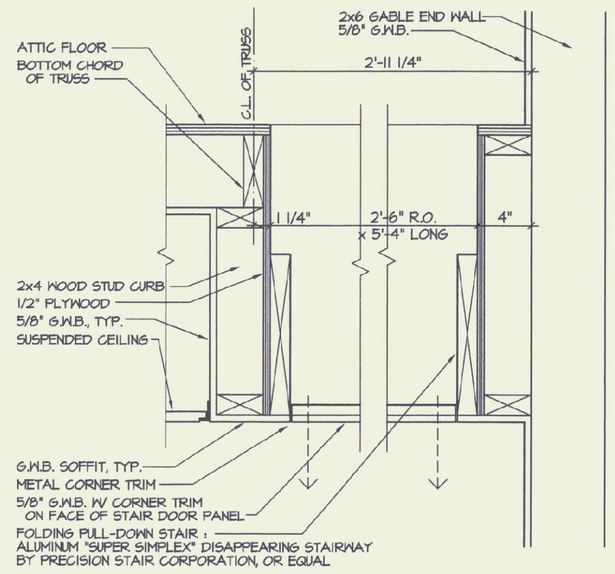
WALL SECTIONS, ATTIC PLAN

N ACT. N NOM.

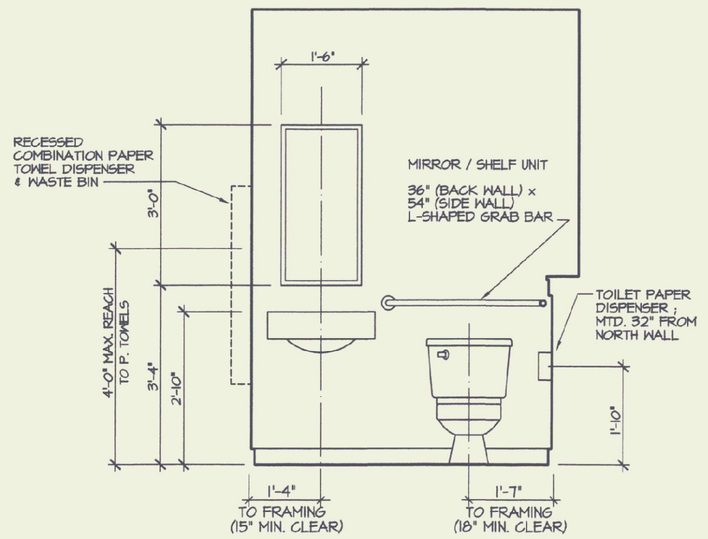
JOB #:
CADD #: DMV/ A2-1
BY: SPM/CAD

SCALE : AS NOTED
DATE: MAY 2000
REVISIONS:

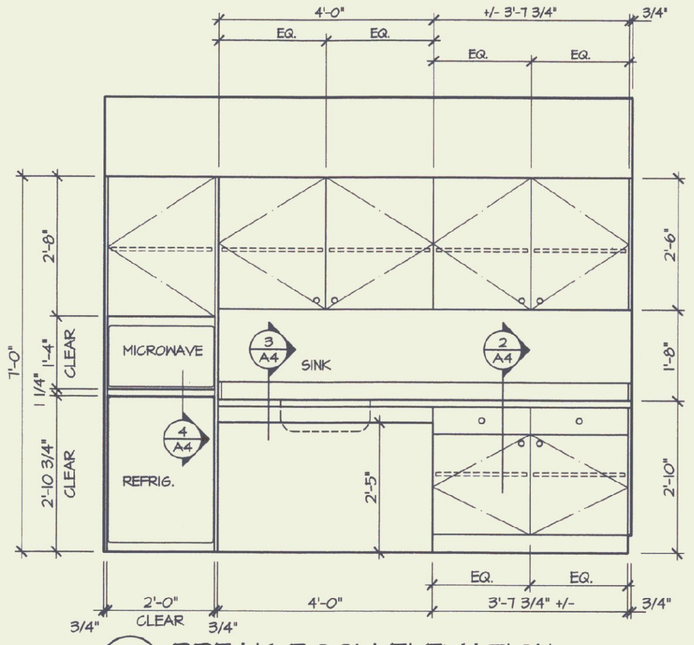
A3



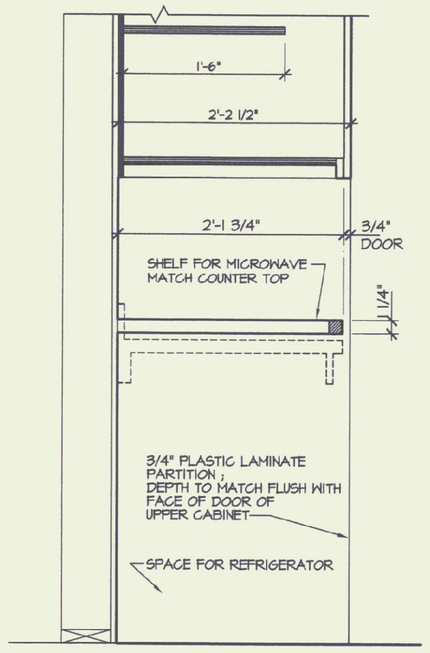
7 PULL-DOWN STAIR
1 1/2" = 1'-0"



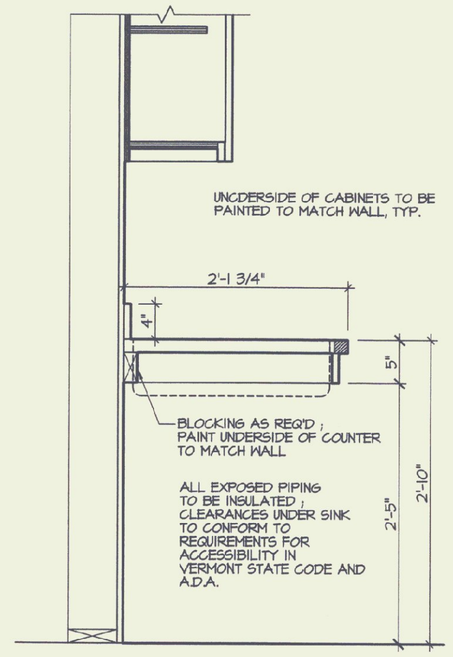
6 STAFF W.C. ELEV.
1/2" = 1'-0"



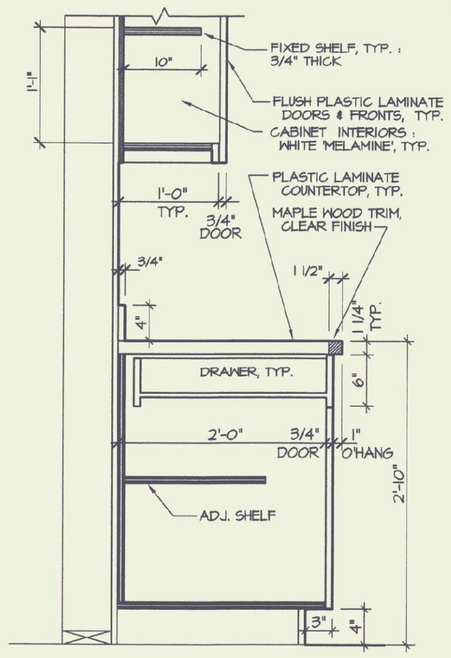
5 BREAK ROOM ELEVATION
1/2" = 1'-0"



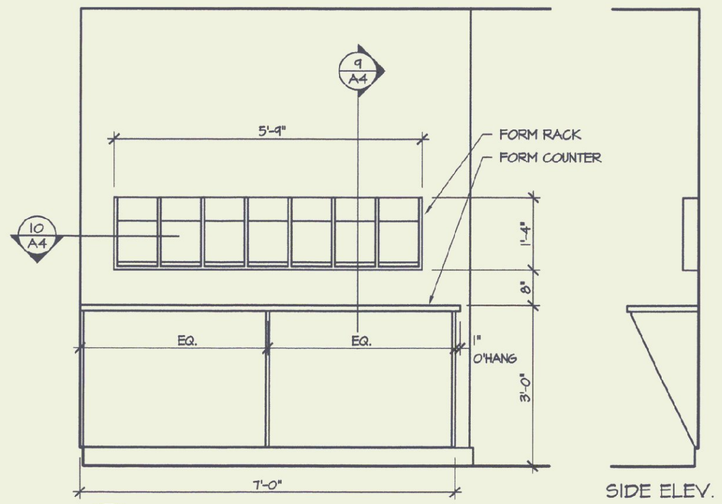
4 SECTION @ REFRIG.
1" = 1'-0"



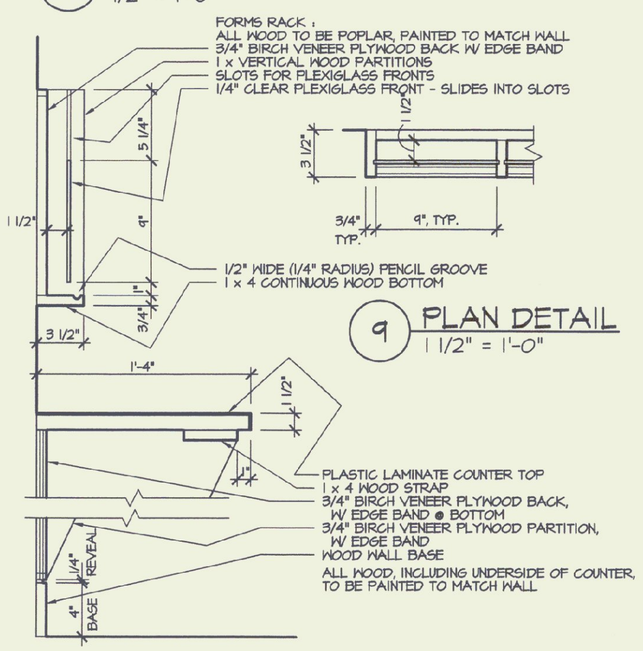
3 SECTION @ SINK
1" = 1'-0"



2 CABINET SECTION
1" = 1'-0"



8 ELEVATION @ FORMS COUNTER
1/2" = 1'-0"

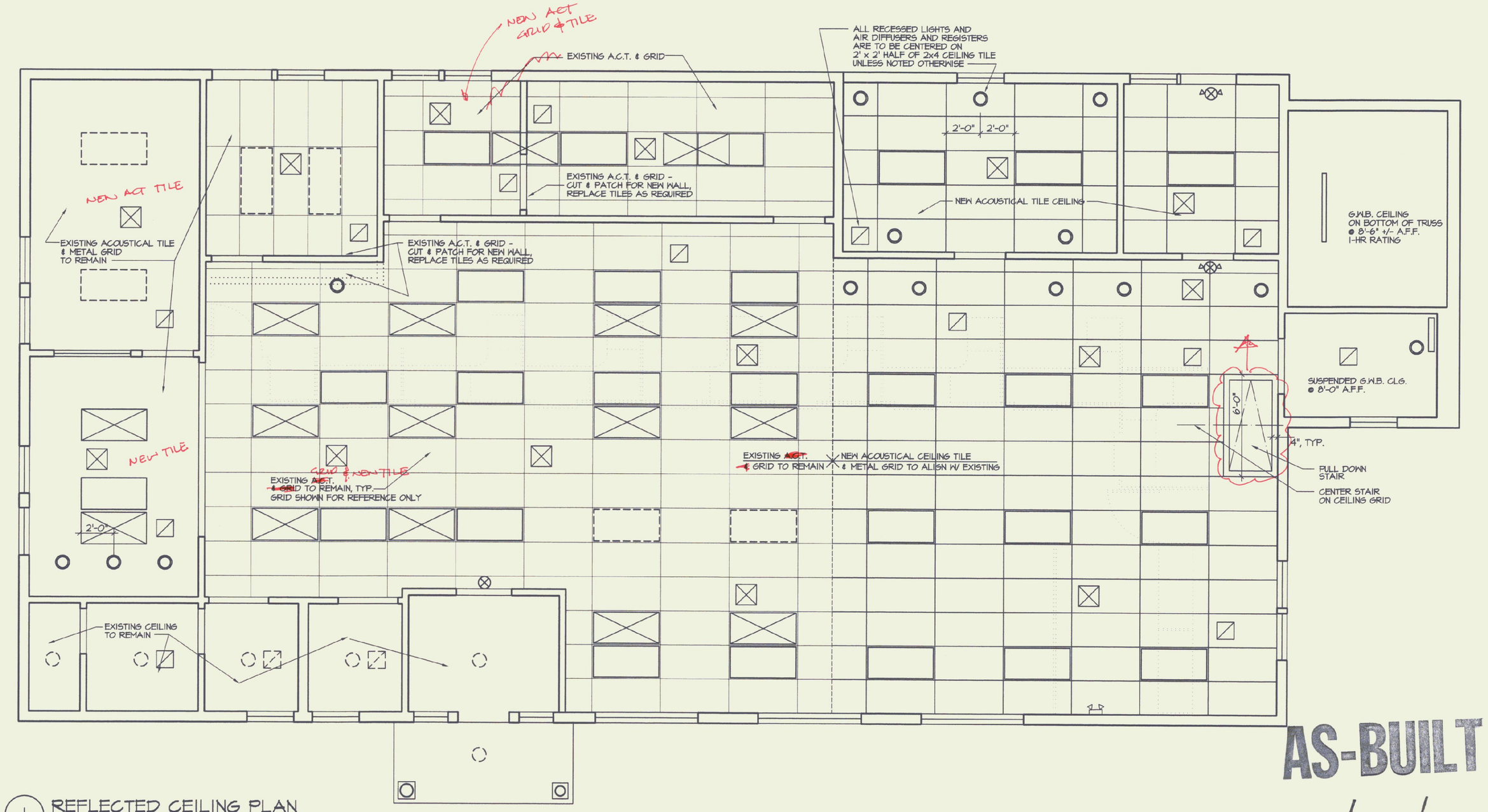


9 PLAN DETAIL
1 1/2" = 1'-0"

9 DETAIL @ FORMS COUNTER
1 1/2" = 1'-0"

LEGEND

- EXISTING 2x4 FIXTURE TO BE REMOVED OR MOVED TO NEW LOCATION
- EXISTING 2x4 FIXTURE LOCATION ; SEE DWG. E1 FOR FIXTURES TO BE REPLACED
- NEW 2x4 FIXTURE LOCATION
- NEW STRIP LIGHT FIXTURE
- EXISTING RECESSED DOWNLIGHT
- NEW RECESSED DOWNLIGHT
- CEILING MTD. EXIT LIGHT
- CEILING MTD. EXIT & EMERGENCY LIGHT
- SUPPLY AIR DIFFUSER
- RETURN OR EXHAUST AIR REGISTER
- EXISTING EXHAUST REGISTER



1 REFLECTED CEILING PLAN
1/4" = 1'-0"

AS-BUILT

ERTEL ASSOCIATES ARCHITECTS
15 CENTRAL STREET WOODSTOCK, VERMONT 05091

DEPARTMENT OF MOTOR VEHICLES

RUTLAND, VERMONT

REFLECTED CEILING PLAN, INTERIOR ELEVATIONS & DETAILS

N ACT. N NOM.

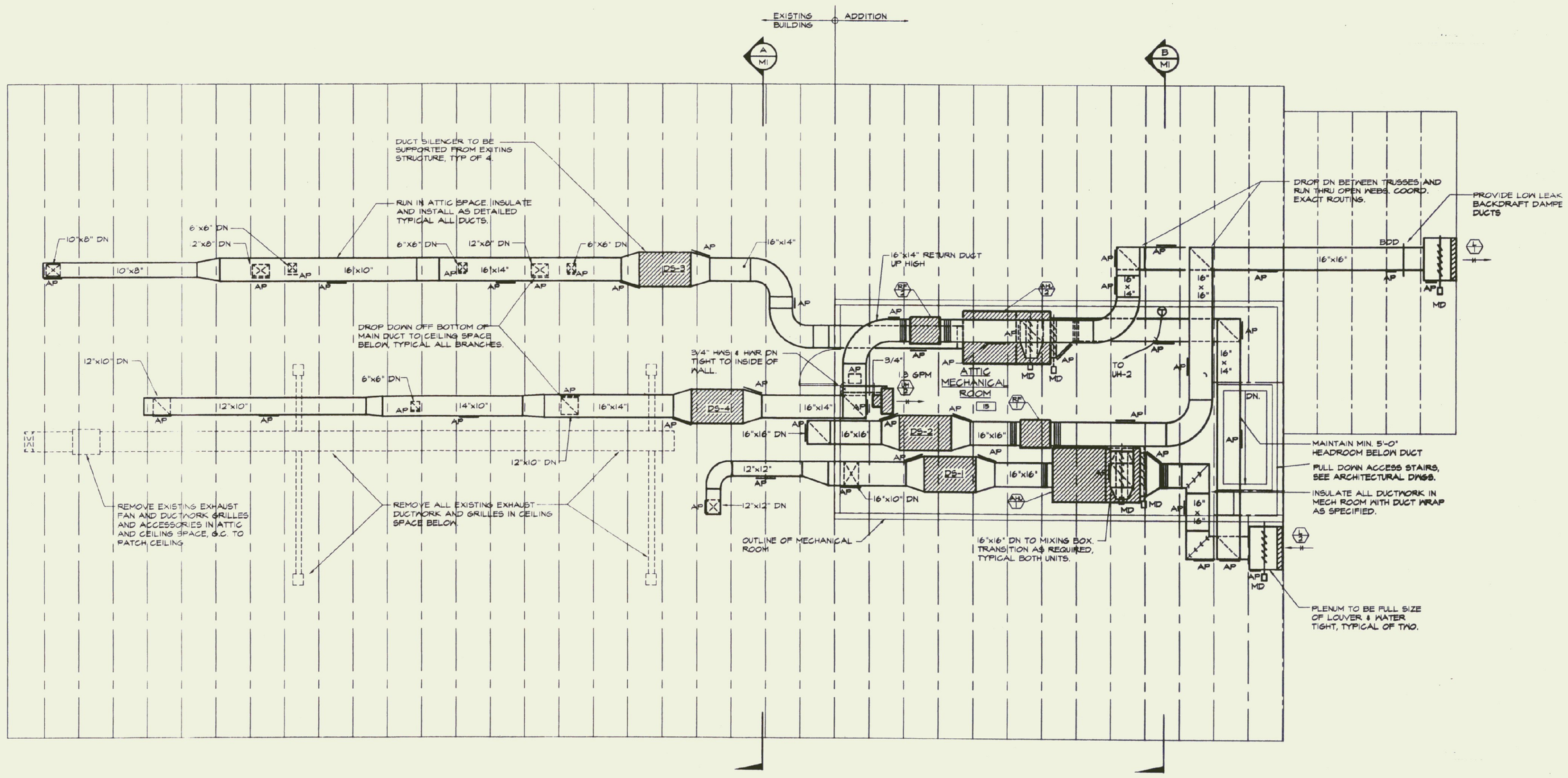
JOB #:
CADD #: DMV/A2-1
BY: SPM/CAD

SCALE : AS NOTED
DATE: MAY 2000
REVISIONS:

A4

MECHANICAL LEGEND & ABBREVIATIONS

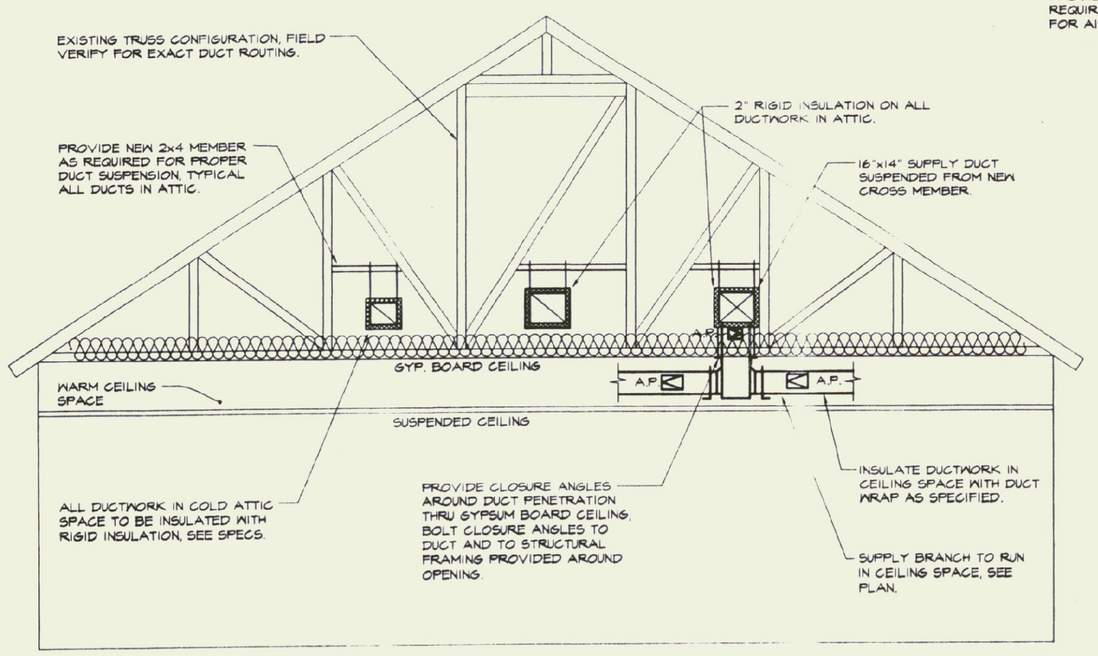
- NEW DUCTWORK
- EXISTING DUCTWORK TO REMAIN
- EXISTING DUCTWORK TO BE REMOVED
- AP — DUCT ACCESS PANEL
- SUPPLY DUCT DROP
- SUPPLY DUCT RISER
- RETURN OR EXHAUST DUCT DROP
- RETURN OR EXHAUST DUCT RISER
- FLEXIBLE DUCTWORK
- VOLUME DAMPER
- MD — MOTOR OPERATED DAMPER
- FD — FIRE DAMPER, FD=FIRE DAMPER
- AIR FLOW INDICATOR
- SUPPLY DIFFUSER
- RETURN AND EXHAUST REGISTER
- HWS — HOT WATER SUPPLY
- HWR — HOT WATER RETURN
- AIR VENT
- L — LIQUID REFRIGERANT LINE
- S — SUCTION REFRIGERANT LINE
- UNIT HEATER
- T — THERMOSTAT, C=COOLING, E=120 VAC
- FOS — FUEL OIL SUPPLY
- BALL VALVE
- BALANCING VALVE
- 2-WAY CONTROL VALVE (SC=SELF-CONTAINED)
- 3-WAY CONTROL VALVE
- PRESSURE GAUGE
- PRESSURE RELIEF VALVE
- DRAIN VALVE
- PIPE STRAINER
- PIPE STRAINER WITH BLOW DOWN VALVE
- CHECK VALVE
- BACKFLOW PREVENTER
- CH — CABINET HEATER
- WH — WALL HEATER
- UH — UNIT HEATER
- PRV — PRESSURE REDUCING VALVE
- CEILING EXHAUST FAN
- BDD — BACKDRAFT DAMPER



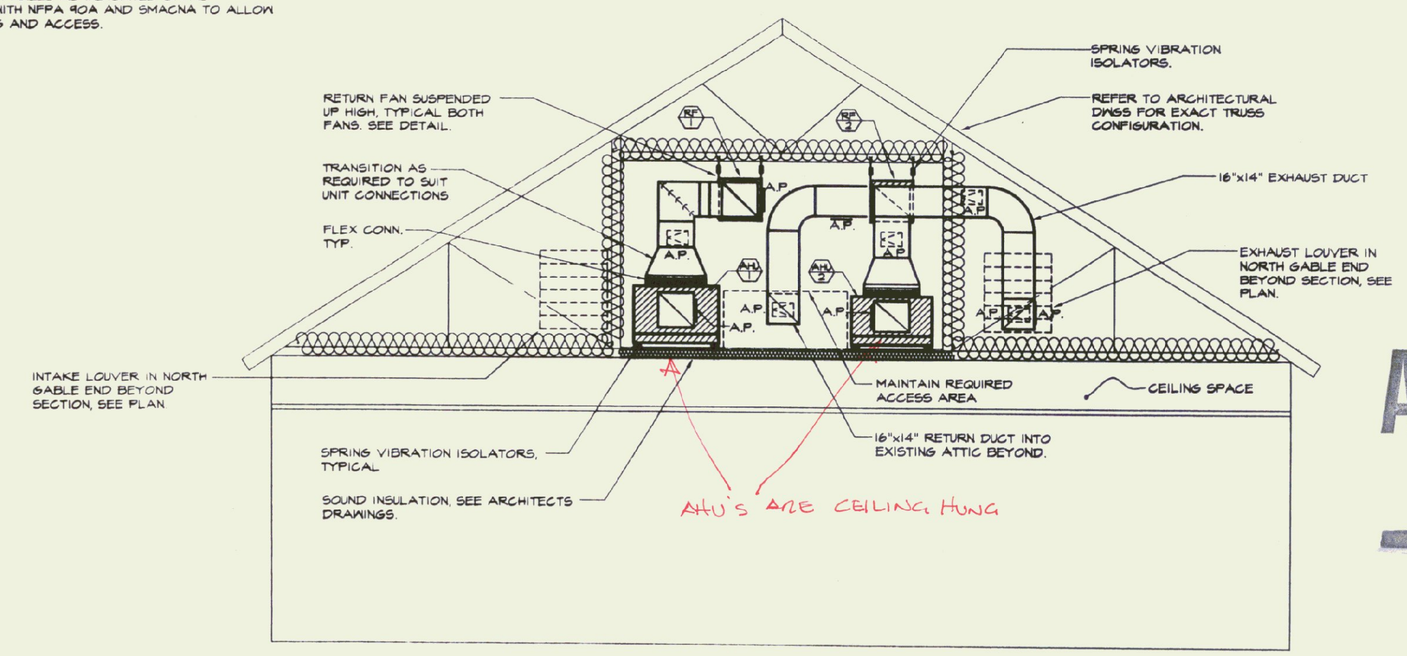
ATTIC LEVEL - DUCTWORK PLAN

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

NOTE:
PROVIDE DUCT ACCESS PANELS AS INDICATED OR AS REQUIRED TO COMPLY WITH NFPA 90A AND SMACNA TO ALLOW FOR AIR DUCT CLEANING AND ACCESS.



BUILDING SECTION (A / M1)
SCALE: 1/4"=1'-0"



BUILDING SECTION (B / M1)
SCALE: 1/4"=1'-0"

AS-BUILT

THE STATE OF VERMONT — DANIEL W. GUSTAFSON — 027.0012 — REGISTERED PROFESSIONAL ENGINEER

'ATES ARCHITECTS
'CK, VERMONT 05091
ONSULTING ENGINEERS
RUTLAND, VERMONT 05701

DEPARTMENT OF MOTOR VEHICLES RUTLAND – RENOVATION & ADDITION

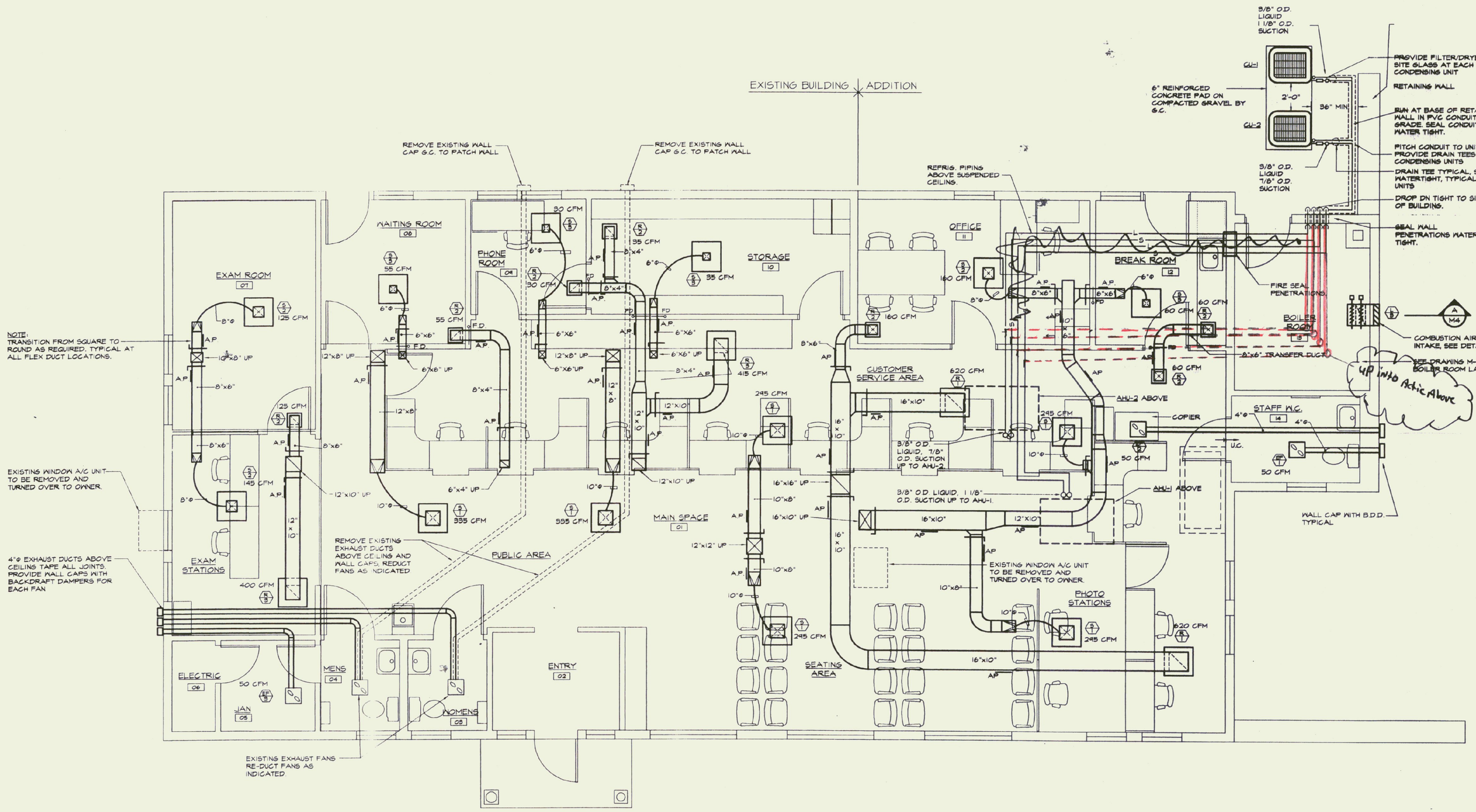
ATTIC PLAN – MECHANICAL DUCTWORK

N ACT. N NOM

JOB #:
CADD #:
BY: TDL

SCALE: AS NOTED
DATE: MAY 2000
REVISIONS:

M1



MAIN FLOOR PLAN - MECHANICAL LOWER LEVEL DUCTWORK

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

GENERAL DEMOLITION NOTES:

1) REMOVE ALL ELECTRIC RADIATION AND CONTROLS.

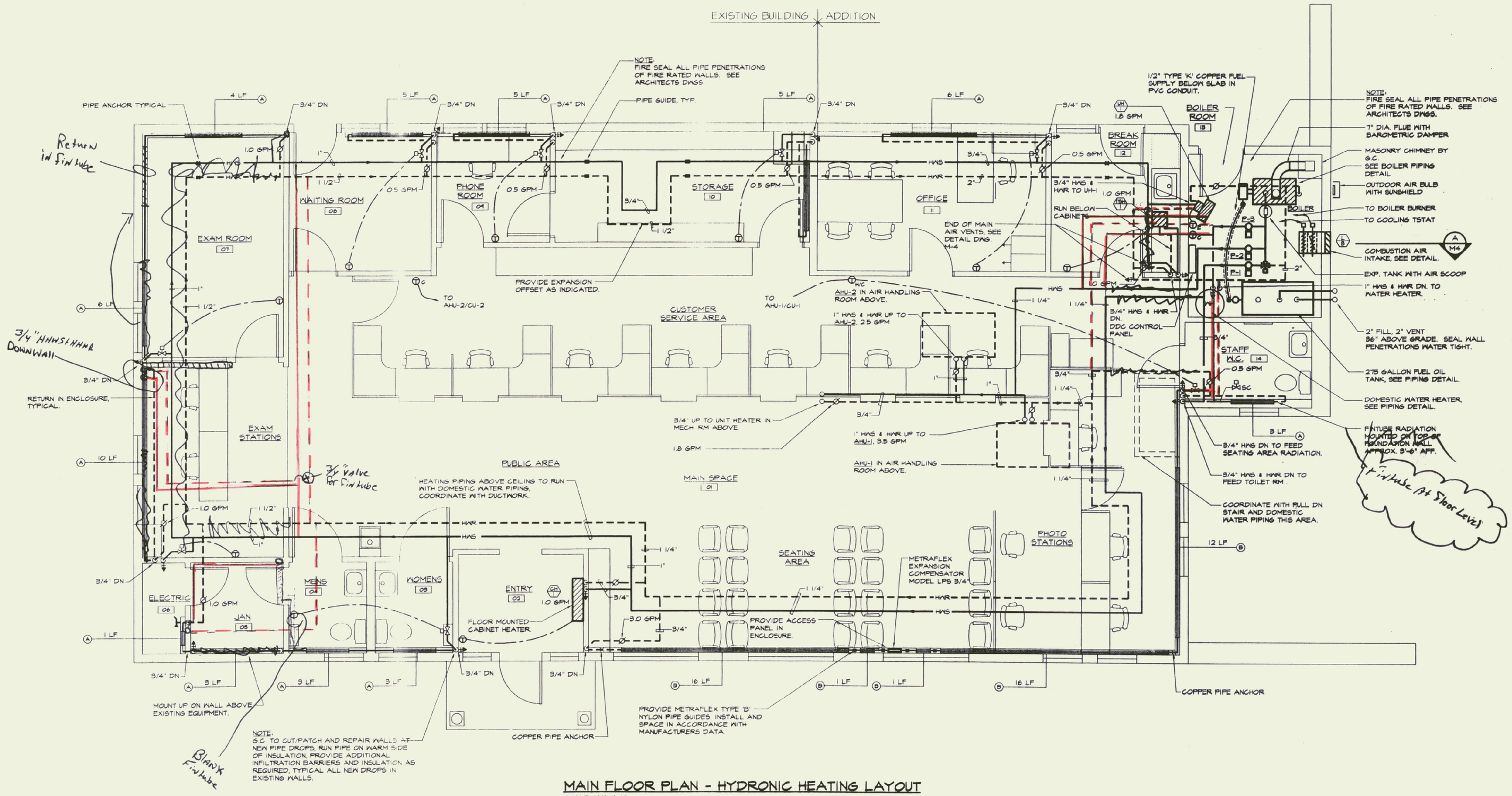
2) REMOVE ALL WINDOW A/C UNITS AND TURN OVER TO OWNER.

AS-BUILT

/ /

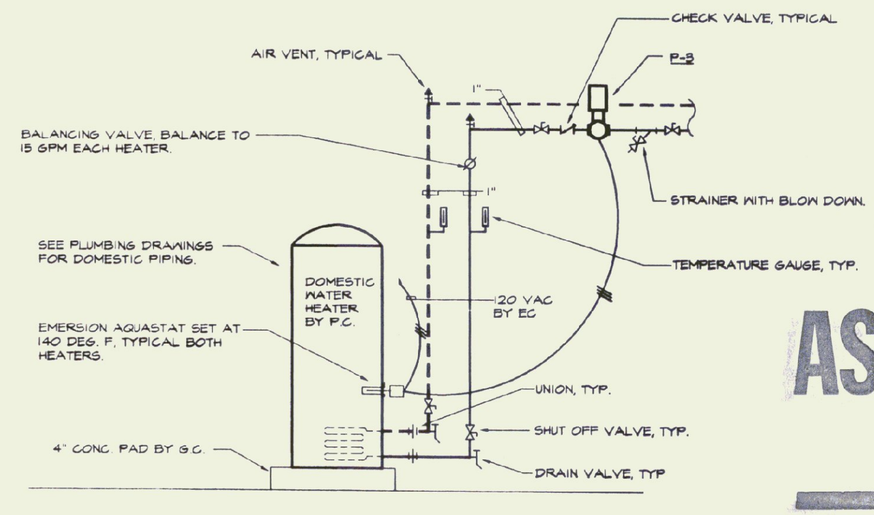
THE STATE OF VERMONT DANIEL W. DUPRAS NO. 7521 REGISTERED PROFESSIONAL ENGINEER

ERTEL ASSOCIATES ARCHITECTS 15 CENTRAL STREET WOODSTOCK, VERMONT 05091 LANE ASSOCIATES CONSULTING ENGINEERS 51 KILLINGTON AVENUE RUTLAND, VERMONT 05701	DEPARTMENT OF MOTOR VEHICLES RUTLAND – RENOVATION & ADDITION MAIN FLOOR PLAN – MECHANICAL DUCTWORK	N ACT. N NOM	JOB #: CADD #: BY: TDL	SCALE: AS NOTED DATE: MAY 2000 REVISIONS:	M2



MAIN FLOOR PLAN - HYDRONIC HEATING LAYOUT

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



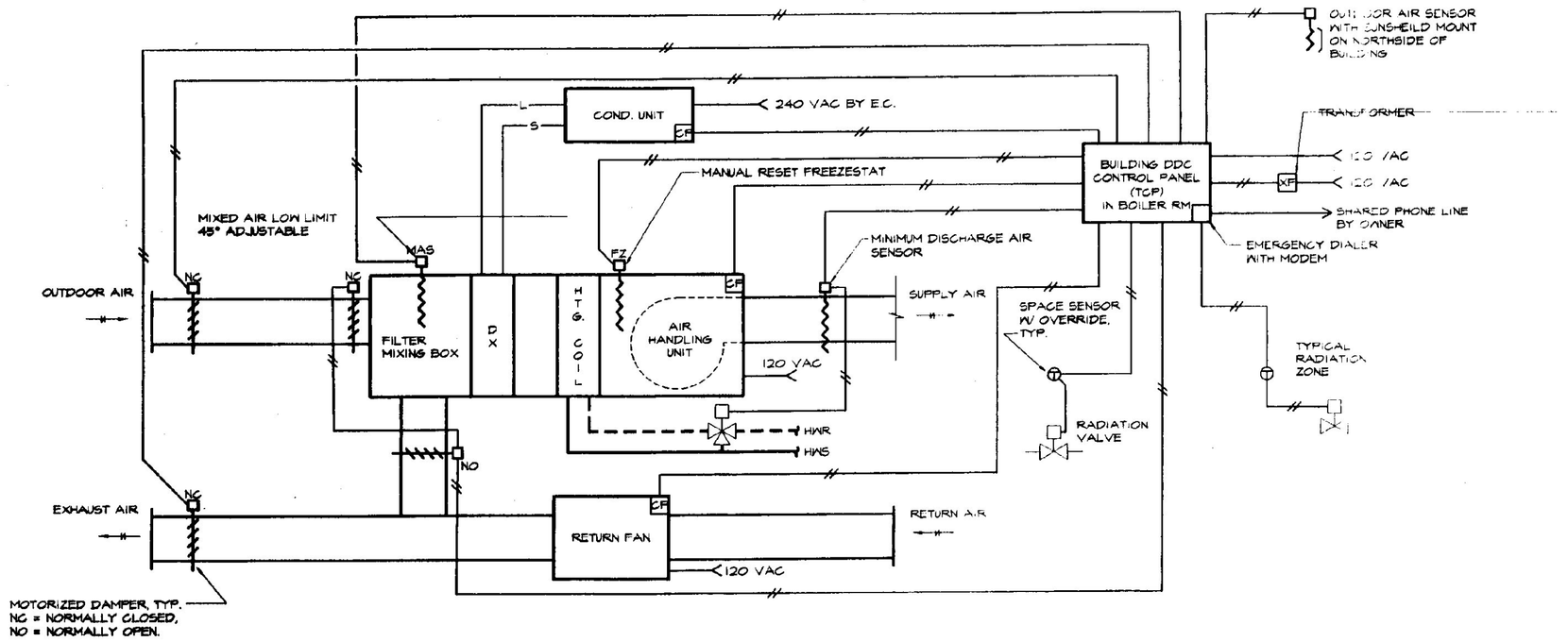
WATER HEATER PIPING DETAIL

N.T.S.

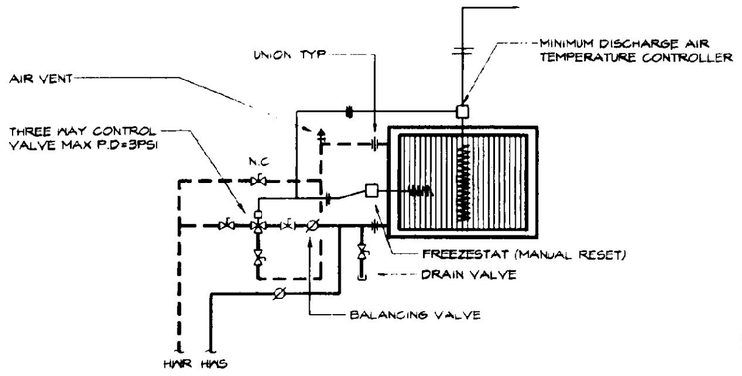
AS-BUILT

THE STATE OF VERMONT DANIEL W. DUPRAS NO. 026 PROFESSIONAL ENGINEER

ERTEL ASSOCIATES ARCHITECTS 15 CENTRAL STREET WOODSTOCK, VERMONT 05091 LANE ASSOCIATES CONSULTING ENGINEERS 51 KILLINGTON AVENUE RUTLAND, VERMONT 05701	DEPARTMENT OF MOTOR VEHICLES RUTLAND – RENOVATION & ADDITION MAIN FLOOR PLAN – MECHANICAL DUCTWORK	N ACT. N NOM	JOB #: CADD #: BY: TDL	SCALE: AS NOTED DATE: MAY 2000 REVISIONS:	M3

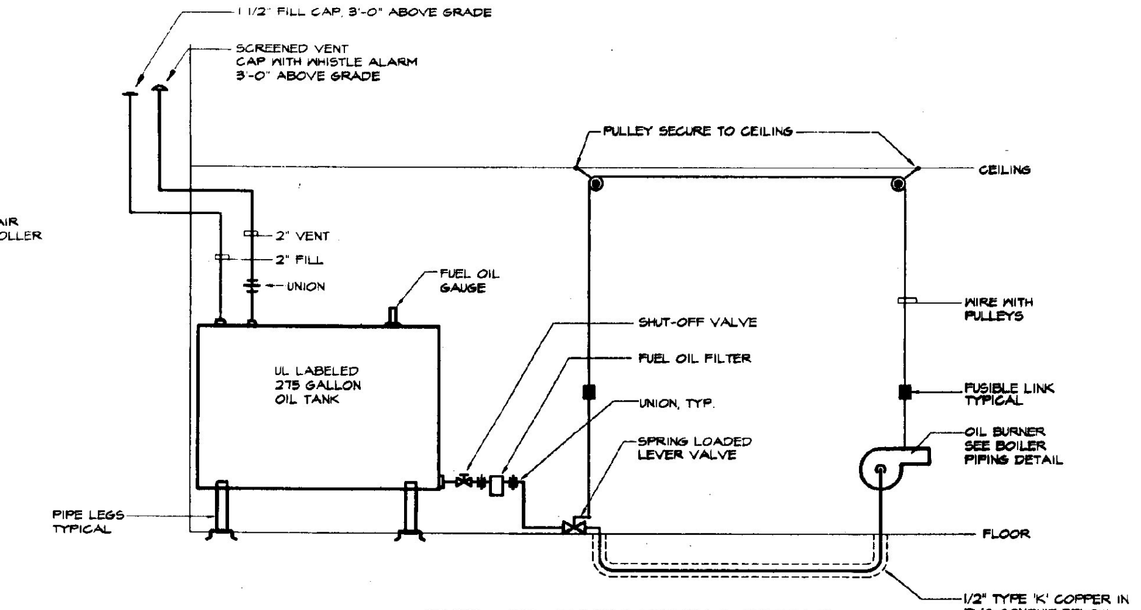


TYPICAL AIR HANDLING UNIT CONTROL SCHEMATIC
NOT TO SCALE



HOT WATER COIL PIPING DETAIL
NOT TO SCALE

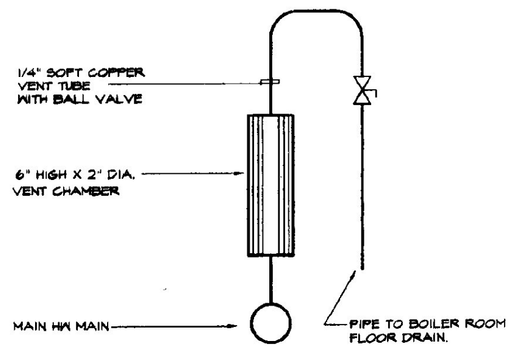
NOTE:
AHU-1 35 GPM
AHU-2 25 GPM



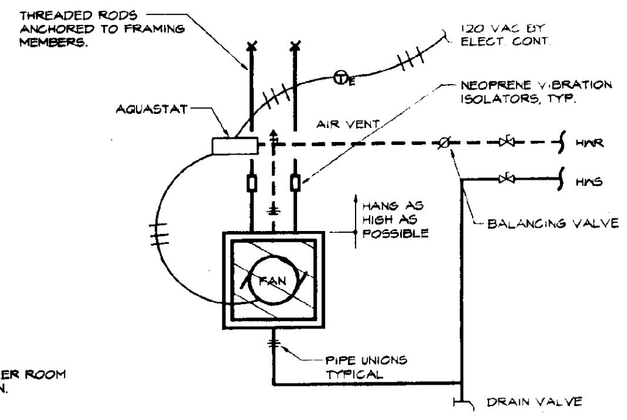
FUEL OIL TANK PIPING DETAIL
NOT TO SCALE

NOTES:
1) MAINTAIN MINIMUM 5'-0" BETWEEN OIL TANK AND BURNER AS REQUIRED BY CODE.

2) TEST TANK AND PIPING PRIOR TO FILLING TANK

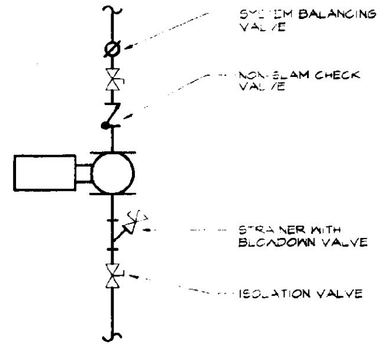


MAIN AIR VENT DETAIL
NO SCALE

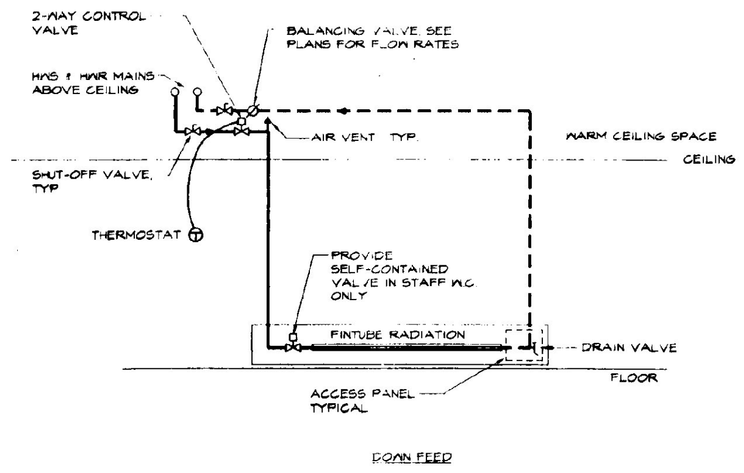


UNIT HEATER PIPING DETAIL
NO SCALE

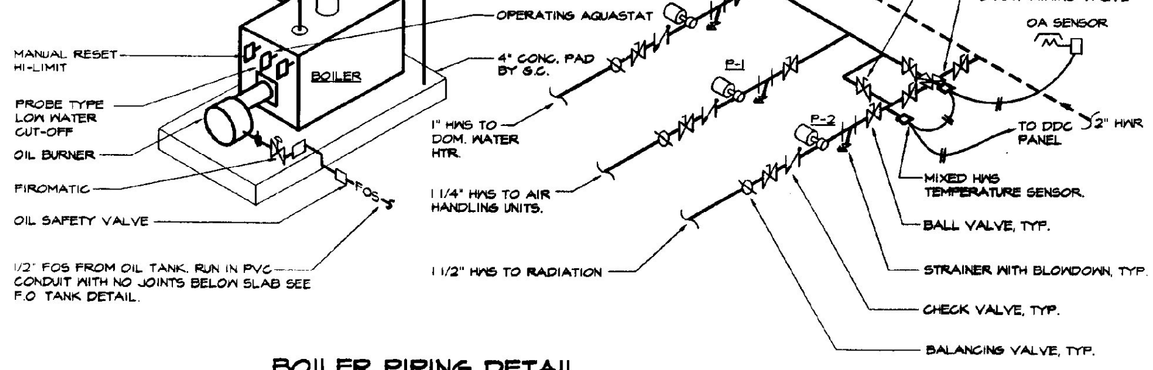
NOTE:
PIPING SIMILAR FOR TOESPACE HEATER AND CABINET HEATERS.



IN-LINE PUMP PIPING DETAIL
NO SCALE



RADIATION PIPING DETAILS
NO SCALE

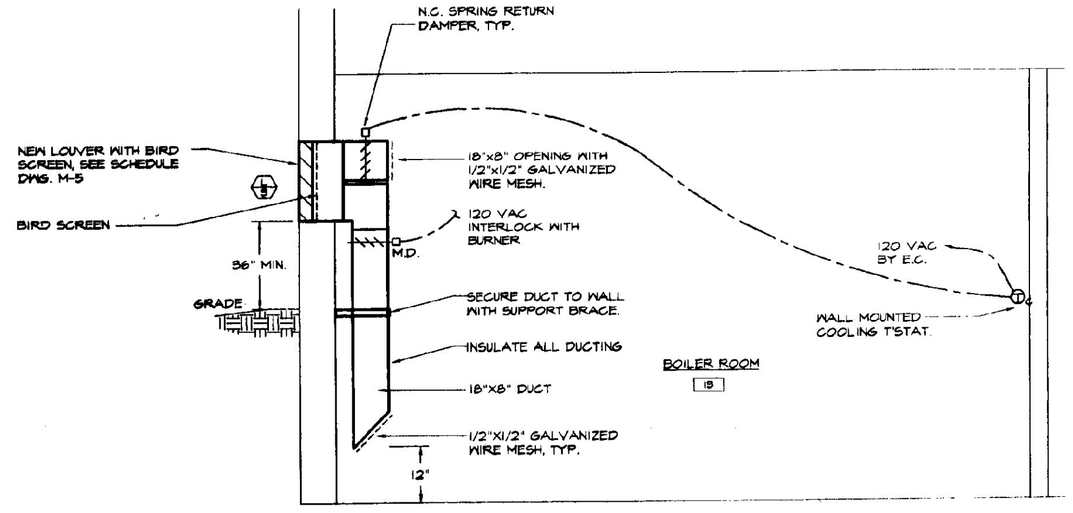


BOILER PIPING DETAIL
NOT TO SCALE

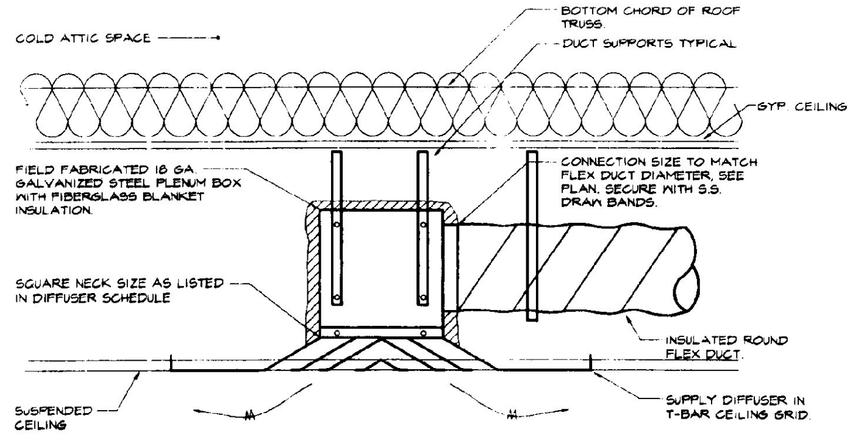
1) WATTS MODEL 9D BACKFLOW PREVENTOR SIZE 1/2"

2) WATTS MODEL NO. B1156F PRESSURE REDUCING VALVE SET AT 12 PSI.

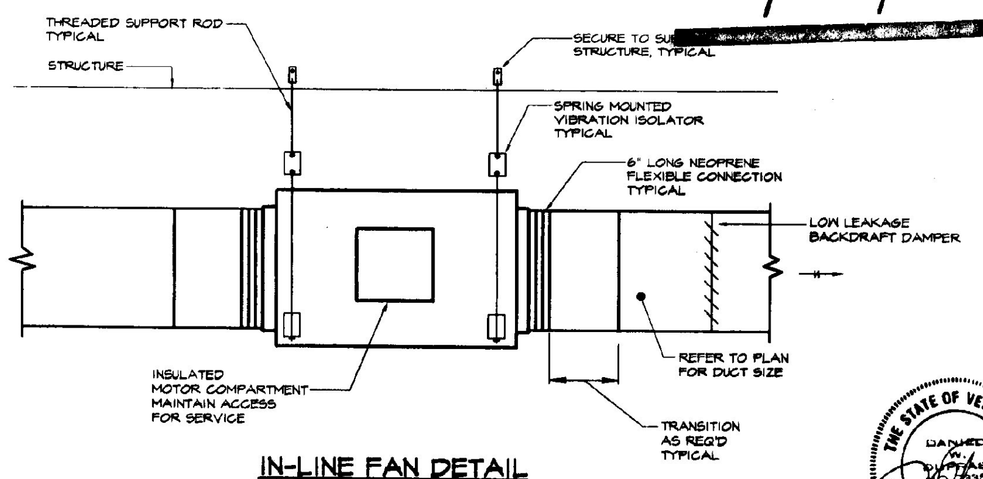
AS-BUILT



A/M4 COMBUSTION/VENTILATION AIR DETAIL
NOT TO SCALE



SUPPLY DIFFUSER CONNECTION DETAIL
NOT TO SCALE



IN-LINE FAN DETAIL
NOT TO SCALE

THE STATE OF VERMONT DANIEL M. DUFFIS 10,738 REGISTERED PROFESSIONAL ENGINEER

ERTEL ASSOCIATES ARCHITECTS 15 CENTRAL STREET WOODSTOCK, VERMONT 05091 LANE ASSOCIATES CONSULTING ENGINEERS 51 KILLINGTON AVENUE RUTLAND, VERMONT 05701	DEPARTMENT OF MOTOR VEHICLES RUTLAND – RENOVATION & ADDITION MECHANICAL DETAILS	N ACT. N NOM	JOB #: CADD #: BY: TDL	SCALE : AS NOTED DATE: MAY 2000 REVISIONS:	M4

AIR HANDLING UNIT SCHEDULE

PLAN SYMBOL AHU

REF. No.	MANUFACTURER/ MODEL	AREA SERVED	FAN SECTION					MOTOR				HEATING COIL								DX COIL						MIN OUTDOOR AIR CFM	REMARKS
			CFM	MAX. OUTLET VEL. FPM	RPM	STATIC PRESS. IN. WG.		HP.	VOLTS	PHASE	HZ	AIR TEMP. °F		MBH	FACE VEL FPM	WATER TEMP. °F		GPM	PRESS. DROP FT HD	E.A.T.		CAPACITY (MBH)		L.A.T.			
						TOT.	EXT.					ENT.	LVG			ENT.	LVG.			DB	WB	TOTAL	SENS.	DB	WB		
AHU-1	CARRIER / MAGIC AIR FS3A-048	NORTH	1400	788	1098	1.22	0.75	3/4	115	1	60	47.5	70	34.1	400	180	160	3.5	1.1	78.9	65.7	47.8	34.6	56.2	54.5	350	NOTE 1, 2
AHU-2	CARRIER / MAGIC AIR FS3A-036	SOUTH	1060	672	1221	1.01	0.64	1/3	115	1	60	47.5	70	25.5	440	180	160	2.5	1.1	78.2	64.9	41.0	25.9	55.5	51.0	260	NOTE 2

AIR HANDLING UNIT SCHEDULE NOTES:

1) AHU-1 SUPPLY FAN SHALL BE PROVIDED WITH OPTIONAL 3/4 HP AND DRIVE PACKAGE, THIS PACKAGE SHALL BE FACTORY INSTALLED AND TESTED.

2) PROVIDE HIGH EFFICIENCY MIXING BOX WITH LOW LEAKAGE DAMPERS.

3) UNITS SHALL BE PROVIDED AS DOUBLE WALL CONSTRUCTION OR WITH 1" THICK CLOSED CELL NEOPRENE INSULATION.

AIR COOLED CONDENSING UNIT SCHEDULE

PLAN SYMBOL CU

REF. No.	MANUFACTURER/ MODEL	NOMINAL CAPACITY	AMBIENT TEMP. °F	SUCTION TEMP °F	REFRIG. TYPE	COMPRESSOR						CONDENSER FAN						REMARKS
						NO.	RLA	LRA	ELECTRICAL				NO.	FLA	ELECTRICAL				
									HP.	VOLTS	PHASE	HZ			HP.	VOLTS	PHASE	HZ	
CU-1	CARRIER 38TRA-042	41.0	95	45	R-22	1	20	104.0	-	230	1	60	1	1.1	1/5	230	1	60	NOTE 1
CU-2	CARRIER 38TRA-036	34.4	95	45	R-22	1	17.9	88.0	-	230	1	60	1	1.1	1/5	230	1	60	NOTE 1

AIR COOLED CONDENSING UNIT SCHEDULE NOTES:
1) SEE SPECIFICATIONS FOR ALL REQUIRED ACCESSORIES.

RETURN & EXHAUST FAN SCHEDULE

RF = RETURN FAN
EF = EXHAUST FAN

PLAN SYMBOL RF EF

NO.	MANUFACTURER	CFM	E.S.P.	MOTOR				REMARKS
				HP.	VOLTS	PHASE	HZ	
RF-1	GREENHECK BSQ-140-4	1400	0.375	1/4	115	1	60	
RF-2	GREENHECK BSQ-130-4	1050	0.50	1/4	115	1	60	
EF-1	BROAN S-90	50	0.10	0.5 AMPS	115	1	60	PROVIDE MODEL 642 WALL CAP AND BDD 4"
EF-2	BROAN S-90	50	0.10	0.5 AMPS	115	1	60	PROVIDE MODEL 642 WALL CAP AND BDD 4"
EF-3	BROAN S-90	50	0.10	0.5 AMPS	115	1	60	PROVIDE MODEL 642 WALL CAP AND BDD 4"

UNIT, CABINET AND TOESPACE HEATER SCHEDULE

WH = WALL HEATER
TSH = TOESPACE HEATER
CH=CABINET HEATER
UH=UNIT HEATER

PLAN SYMBOL WH CH UH TSH

No.	MANUFACTURER	MODEL	SIZE	BTUH	E.W.T. (°F)	GPM	CFM	MOTOR			P.D FT HD	RPM	REMARKS
								HP	VOLT	PH			
UH-1	STERLING	HV-24	-	14,912	180	1.8	450	9 WATTS	115	1	0.014	1350	
UH-2	STERLING	HV-24	-	14,912	180	1.8	450	9 WATTS	115	1	0.014	1350	
CH-1	STERLING	02	F-1020	11,800	180	1.0	185	1/15	115	1	0.06	-	
TSH-1	BEACON MORRIS	TWIN FLOW	K42	4,278	180	1.0	36	0.5 AMP	115	1	0.17	-	

CIRCULATOR PUMP SCHEDULE

PLAN SYMBOL P-#

No.	MANUFACTURER	SERIES	MIN. GPM	HEAD (FT. HD.)	MOTOR				REMARKS
					HP	VOLT	PH	RPM	
P-1	BELL & GOSSETT	SERIES 60 1AA	11.3	16	1/4	115	1	1750	BASEBOARD LOOP
P-2	BELL & GOSSETT	SERIES 60 1AA	7.8	17	1/4	115	1	1750	AHU COILS
P-3	BELL & GOSSETT	LR-158	5	13	1/12	115	1	3150	DOMESTIC HTR HTR

RADIATION SCHEDULE

PLAN SYMBOL

TYPE	MANUF.	ENCLOSURE	ENCLOSURE HEIGHT	ELEMENT	MOUNTING HEIGHT	TIER	BTU/FT.	LIN. FT.	TOT. M.B.H.	A.M.T	FINISH	REMARKS
A	VULCAN	NST	9 1/8"	3/4" - 55 FINS / FT	9 1/8"	1	710	-	-	170	BAKED ENAMEL	
B	VULCAN	FR-210	10"	3/4" - 55 FINS / FT	14"	1	530	-	-	170	BAKED ENAMEL	

RADIATION SCHEDULE NOTES:
1) COORDINATE MOUNTING HEIGHT WITH NEW AND EXISTING ELECTRICAL RECEPTACLES

DIFFUSER-GRILLE-REGISTER SCHEDULE

S = SUPPLY
R = RETURN
F = FRESH AIR
E = EXHAUST
T = TRANSFER

PLAN SYMBOL

No.	MANUFACTURER	MODEL	MODULE SIZE	NECK SIZE	AIR PAT	DAMPER	FINISH	REMARKS
S1	METAL-AIRE	5000-6	24"x24"	12"x12"	S4	-	WHITE ENAMEL	
S2	METAL-AIRE	5000-6	24"x24"	9"x9"	S4	-	WHITE ENAMEL	
S3	METAL-AIRE	5000-6	24"x24"	6"x6"	S4	-	WHITE ENAMEL	
R1	METAL-AIRE	RH	24"x24"	16"x16"	RETURN	-	WHITE ENAMEL	
R2	METAL-AIRE	RH	-	8"x8"	RETURN	-	WHITE ENAMEL	
R3	METAL-AIRE	RH	24"x24"	12"x12"	RETURN	-	WHITE ENAMEL	

LOUVER SCHEDULE

PLAN SYMBOL

No.	MANUFACTURER	SERIES	MODEL	SIZE WxH	AIR PAT	DAMPER	FINISH	REMARKS
L1	RUSKIN	ELF	ELF 375DX	30"x36"	FIXED	-	BAKED ENAMEL	EXHAUST
L2	RUSKIN	ELF	ELF 375DX	30"x36"	FIXED	-	BAKED ENAMEL	INTAKE
L3	RUSKIN	ELF	ELF 375DX	18"x18"	FIXED	-	BAKED ENAMEL	COMBUSTION AIR

LOUVER SCHEDULE NOTES:

1) COLOR OF LOUVERS TO BE SELECTED BY ARCHITECT.

2) ALL LOUVERS TO BE BOX FRAME.

DUCT SILENCER SCHEDULE

PLAN SYMBOL

No.	MANUFACTURER	MODEL-SIZE	APD IN. WG	INSERTION LOSS (DIL) RATINGS OCTAVE BAND Hz - dB								SELF NOISE POWER LEVELS dB							
				63	125	250	500	1K	2K	4K	8K	63	125	250	500	1K	2K	4K	8K
DS-1	IAC CO.	35 - 24"x18"	0.085"	7	12	16	28	35	35	28	17	34	27	33	28	24	33	20	18
DS-2	IAC CO.	35 - 24"x18"	0.085"	7	13	17	30	36	33	26	13	37	37	36	33	44	45	34	17
DS-3	IAC CO.	35 - 24"x12"	0.10"	7	12	16	28	35	35	28	17	33	27	32	27	28	32	19	17
DS-4	IAC CO.	35 - 24"x12"	0.10"	7	13	17	30	36	33	26	18	37	37	36	33	44	45	34	17

AS-BUILT

THE STATE OF VERMONT
LANE
1979
REGISTERED
PROFESSIONAL ENGINEER

ERTEL ASSOCIATES ARCHITECTS
15 CENTRAL STREET WOODSTOCK, VERMONT 05091

LANE ASSOCIATES CONSULTING ENGINEERS
51 KILLINGTON AVENUE RUTLAND, VERMONT 05701

DEPARTMENT OF MOTOR VEHICLES RUTLAND – RENOVATION & ADDITION

MECHANICAL SCHEDULES

N ACT. N NOM.

JOB #:
CADD #:
BY: TDL

SCALE : AS NOTED
DATE: MAY 2000
REVISIONS:

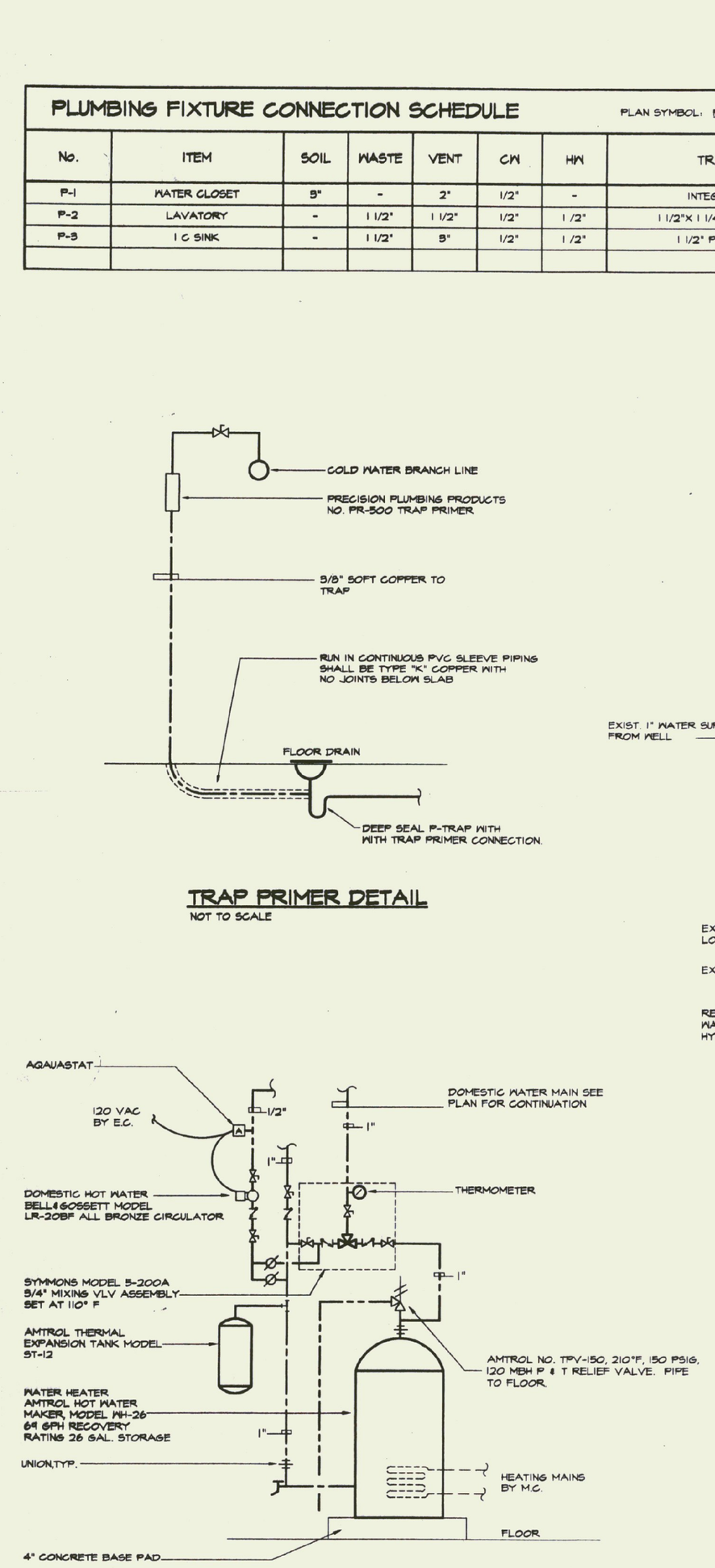
M5

PLUMBING FIXTURE CONNECTION SCHEDULE

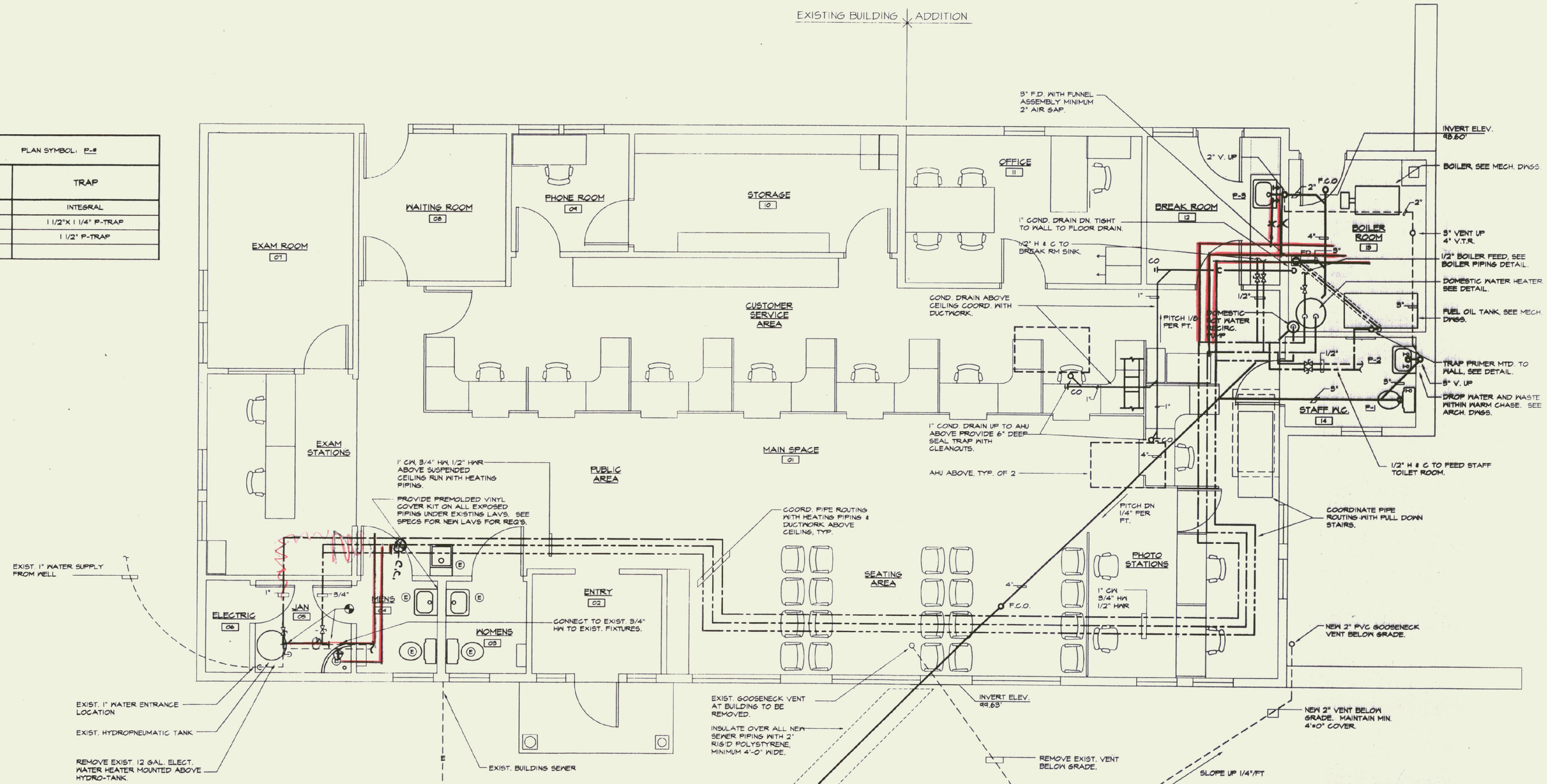
PLAN SYMBOL: P-#

No.	ITEM	SOIL	WASTE	VENT	CW	HW	TRAP
P-1	WATER CLOSET	3"	-	2"	1/2"	-	INTEGRAL
P-2	LAVATORY	-	1 1/2"	1 1/2"	1/2"	1/2"	1 1/2"X 1 1/4" P-TRAP
P-3	1 C SINK	-	1 1/2"	3"	1/2"	1/2"	1 1/2" P-TRAP

TRAP PRIMER DETAIL
NOT TO SCALE



DOMESTIC WATER HEATER PIPING DETAIL
NOT TO SCALE



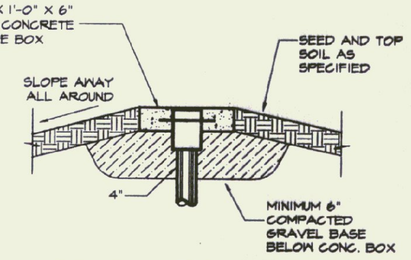
MAIN FLOOR PLAN - PLUMBING
SCALE: 1/4"=1'-0"
FINISHED REFERENCE FLOOR ELEVATION = 100.00'

PLUMBING LEGEND AND ABBREVIATIONS

BV	BALL VALVE
FS	FIXTURE STOP
DV	DRAIN VALVE
BV	BALANCING VALVE
WH	NON-FREEZE WALL HYDRANT
WM	WATER METER
FCO	FLOOR CLEANOUT
ESCO	EXISTING GRADE CLEANOUT
GCO	GRADE CLEANOUT
———	DOMESTIC COLD WATER PIPING
- - -	DOMESTIC HOT WATER PIPING
- - - -	DOMESTIC HOT WATER RECIRCULATION PIPING
———	SANITARY WASTE AND SOIL PIPING
- - -	SANITARY VENT PIPING
—C—	CONDENSATE DRAINAGE PIPING
M.C.	MECHANICAL CONTRACTOR
P.C.	PLUMBING CONTRACTOR
PRV	PRESSURE REDUCING VALVE
V.T.R.	VENT THROUGH ROOF
FD	FLOOR DRAIN
(E)	EXISTING PLUMBING FIXTURE AND TRIM TO REMAIN

GENERAL NOTES

1. INVERTS SHOWN HERE OBTAINED FROM ORIGINAL CONTRACT DRAWINGS AS DESIGNED BY THE STATE OF VT., DATED 10/7/85. NEW INVERTS WERE CALCULATED FROM EXIST. DATA. FIELD VERIFY ALL INVERTS PRIOR TO CONSTRUCTION.



GRADE CLEANOUT DETAIL
NO SCALE

AS-BUILT

THE STATE OF VERMONT — JAMES R. DUPREE — No. 7905 — REGISTERED MECHANICAL ENGINEER

Wed May 03 16:50:32 2000 J:\9806\dwg\9806P01.dwg

ERTEL ASSOCIATES ARCHITECTS 15 CENTRAL STREET WOODSTOCK, VERMONT 05091 LANE ASSOCIATES CONSULTING ENGINEERS 51 KILLINGTON AVENUE RUTLAND, VERMONT 05701	DEPARTMENT OF MOTOR VEHICLES RUTLAND – RENOVATION & ADDITION MAIN FLOOR PLAN – PLUMBING	N ACT. N NOM	JOB #: 9806 CADD #: P01 BY: TDL SCALE: AS NOTED DATE: MAY 2000 REVISIONS:	P1

DRAWING NOTES (PLAN SYMBOL ①)

① RE-USE EXISTING CIRCUIT AND HOMERUN TO PANELBOARD. EXTEND TO NEW OUTLETS AS INDICATED, USING 2#12, 1#12G.

② CONNECT TO 4 CIRCUIT WIRING HARNESS PROVIDED WITH WORK STATIONS. CONNECT ISOLATED GROUNDS OF CIRCUITS A-6,B & 10 TO GROUND CONDUCTOR IN WIRING HARNESS. CONNECT NORMAL GROUNDS OF ALL CIRCUITS TO METAL HOUSING OF POWER POLE.

③ POWER POLE PROVIDED WITH WORK STATIONS. 1 POLE FOR POWER CIRCUITS, 1 POLE FOR LAN AND TELEPHONE WIRING.

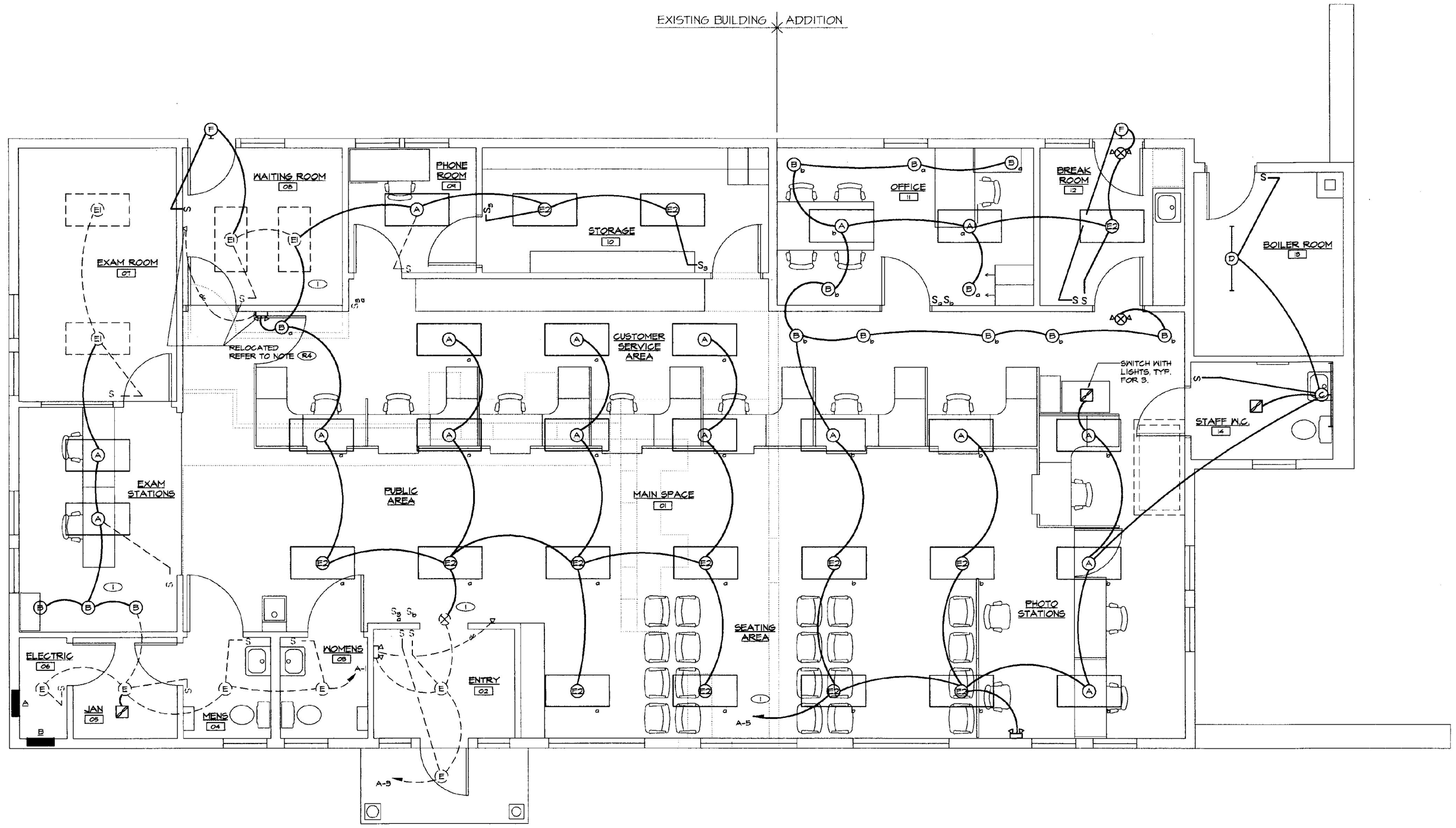
④ REMOVE EXISTING 20A-2P CIRCUIT BREAKER AND INSTALL 2@20A-1P CIRCUIT BREAKERS. PROVIDE 2#12, 1#12G CIRCUIT CONDUCTORS.

⑤ PROVIDE NEW 20A-1P CIRCUIT BREAKER IN EXISTING SPACE. PROVIDE 2#12, 1#12G CIRCUIT CONDUCTORS.

⑥ EXTEND EXISTING FIRE ALARM INITIATION AND NOTIFICATION CIRCUITS TO NEW DEVICES. REFER TO DETAILS FOR GENERAL REQUIREMENTS.

⑦ CONNECT TO EXISTING 20A-2P CIRCUIT BREAKERS. PROVIDE 3#12, 1#12G CIRCUIT CONDUCTORS.

⑧ REMOVE (2) EXISTING 2 POLE CIRCUIT BREAKERS AND INSTALL 40A-2P CIRCUIT BREAKERS. PROVIDE 2#6, 1#10G CIRCUIT CONDUCTORS.



MAIN FLOOR PLAN - LIGHTING

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

NOTES:

1) REFER TO ARCHITECT'S REFLECTED CEILING PLAN FOR EXACT LOCATION OF LIGHTING FIXTURES.

2) EXISTING CIRCUIT INFORMATION IS TAKEN FROM AS-BUILT DRAWINGS. FIELD VERIFY EXACT ARRANGEMENT.

AS-BUILT

THE STATE OF VERMONT
CHARLES J. LANE No. 4100
PROFESSIONAL ENGINEER

ERTEL ASSOCIATES ARCHITECTS
15 CENTRAL STREET WOODSTOCK, VERMONT 05091

LANE ASSOCIATES CONSULTING ENGINEERS
51 KILLINGTON AVENUE RUTLAND, VERMONT 05701

DEPARTMENT OF MOTOR VEHICLES RUTLAND – RENOVATION & ADDITION

MAIN FLOOR PLAN - LIGHTING

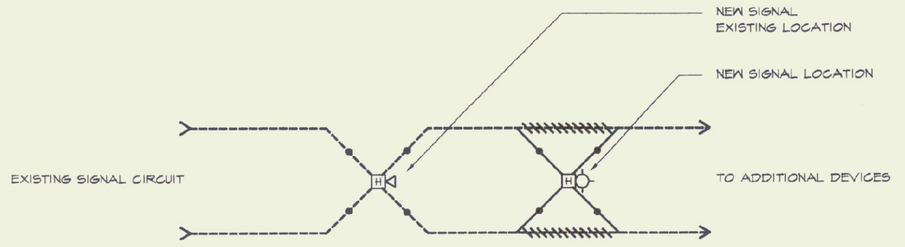
N ACT. N NOM

JOB #:
CADD #:
BY: JDL/BML

SCALE: AS NOTED
DATE: MAY 2000
REVISIONS:

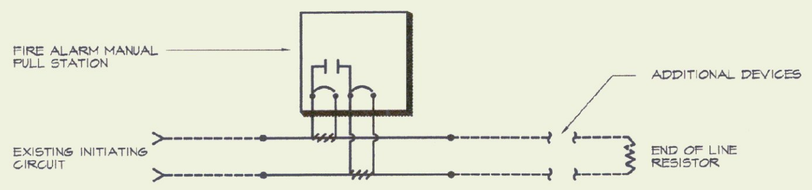
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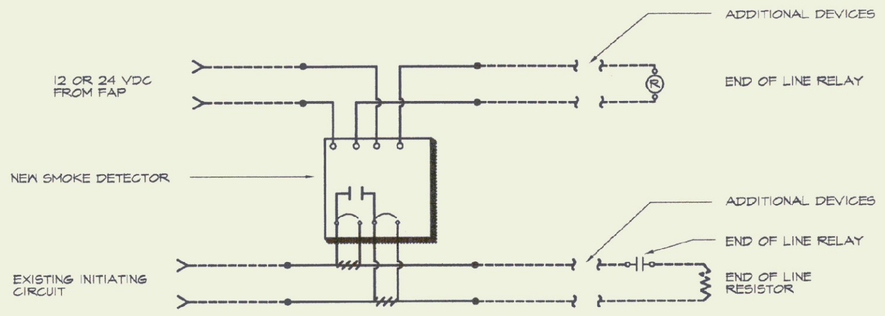


HORN LIGHT WIRING DIAGRAM
NOT TO SCALE

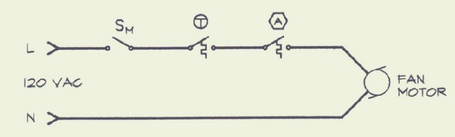
NOTE:
1. WIRE ALL HORN/LIGHT ASSEMBLIES TO MAINTAIN CLASS 'B' SUPERVISION.
2. SHOWN FOR HORN LIGHT ASSEMBLIES, SIMILAR FOR STROBE LIGHTS.



MANUAL PULL STATION WIRING DIAGRAM
NOT TO SCALE

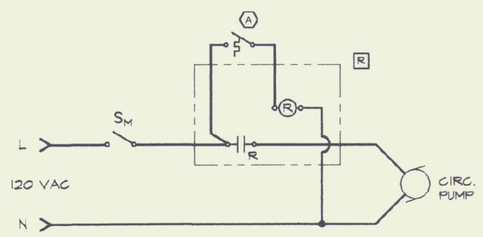


SMOKE DETECTOR WIRING DIAGRAM
NOT TO SCALE



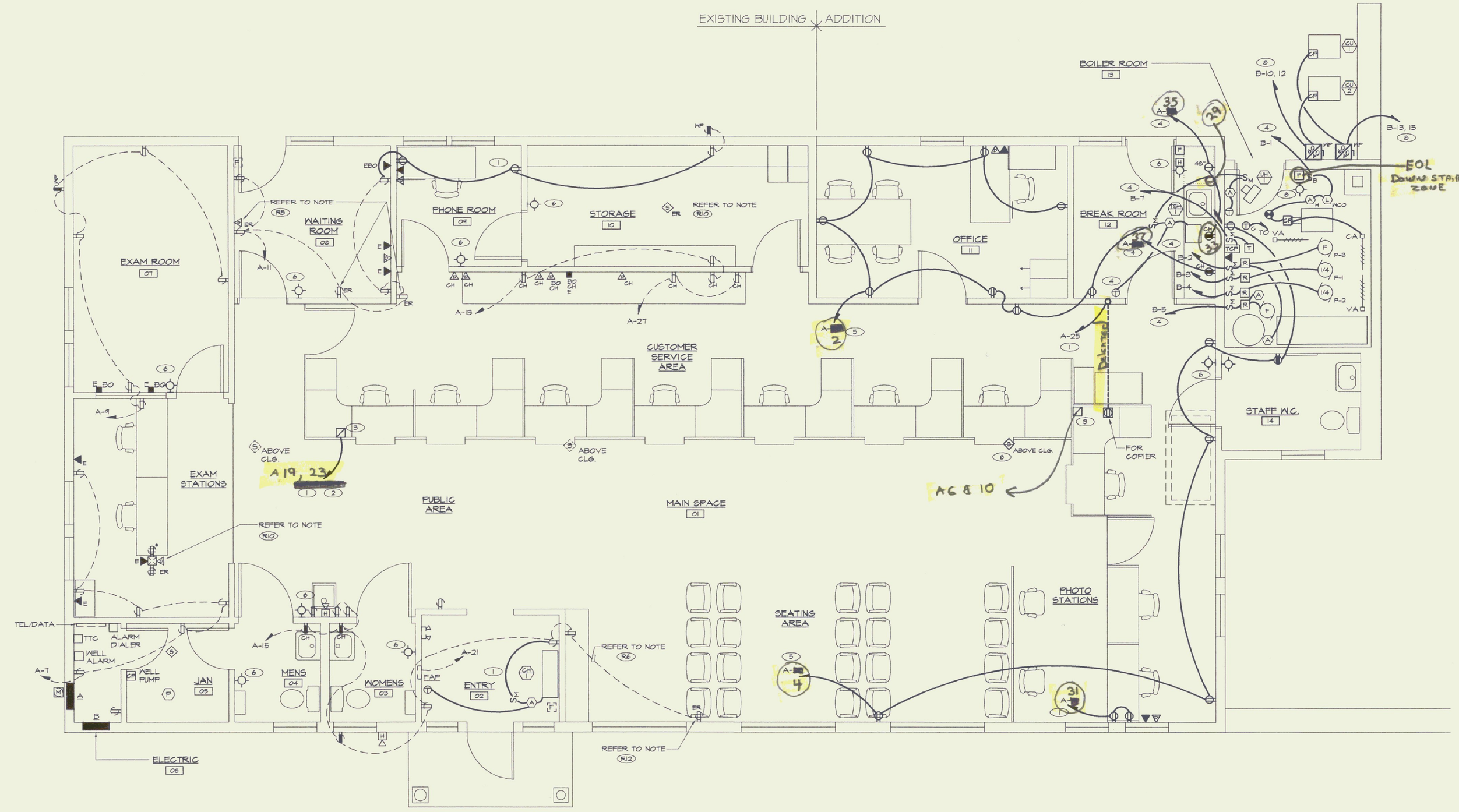
UNIT HEATER WIRING DIAGRAM
NOT TO SCALE

NOTES:
1. BONDING CONDUCTOR IS NOT SHOWN.
2. SIMILAR FOR ALL TOE SPACE HEATERS(TSH) AND CABINET HEATERS (CH).



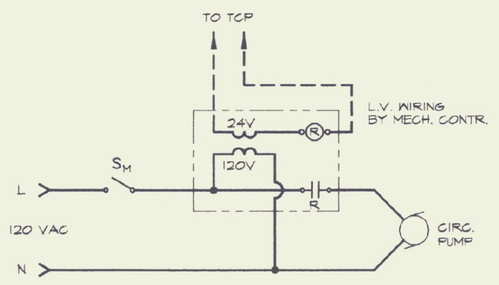
DOMESTIC HOT WATER CIRCULATOR PUMP WIRING DIAGRAM
NOT TO SCALE

NOTES:
1. BONDING CONDUCTOR IS NOT SHOWN.
2. SIMILAR FOR PUMP P3.



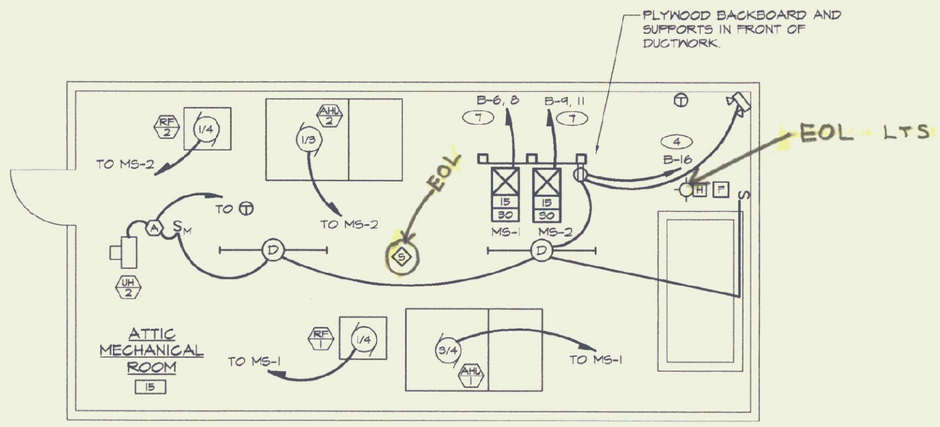
MAIN FLOOR PLAN - POWER & SIGNAL
SCALE: 1/4"=1'-0"

NOTES:
1) EXISTING CIRCUIT INFORMATION IS TAKEN FROM AS-BUILT DRAWINGS. FIELD VERIFY EXACT ARRANGEMENT.



CIRCULATOR PUMP WIRING DIAGRAM
NOT TO SCALE

NOTES:
1. BONDING CONDUCTOR IS NOT SHOWN.
2. SIMILAR FOR ALL HEATING ZONE CIRC. PUMPS P1 & P2.



ATTIC FLOOR PLAN - ELECTRICAL
SCALE: 1/4"=1'-0"

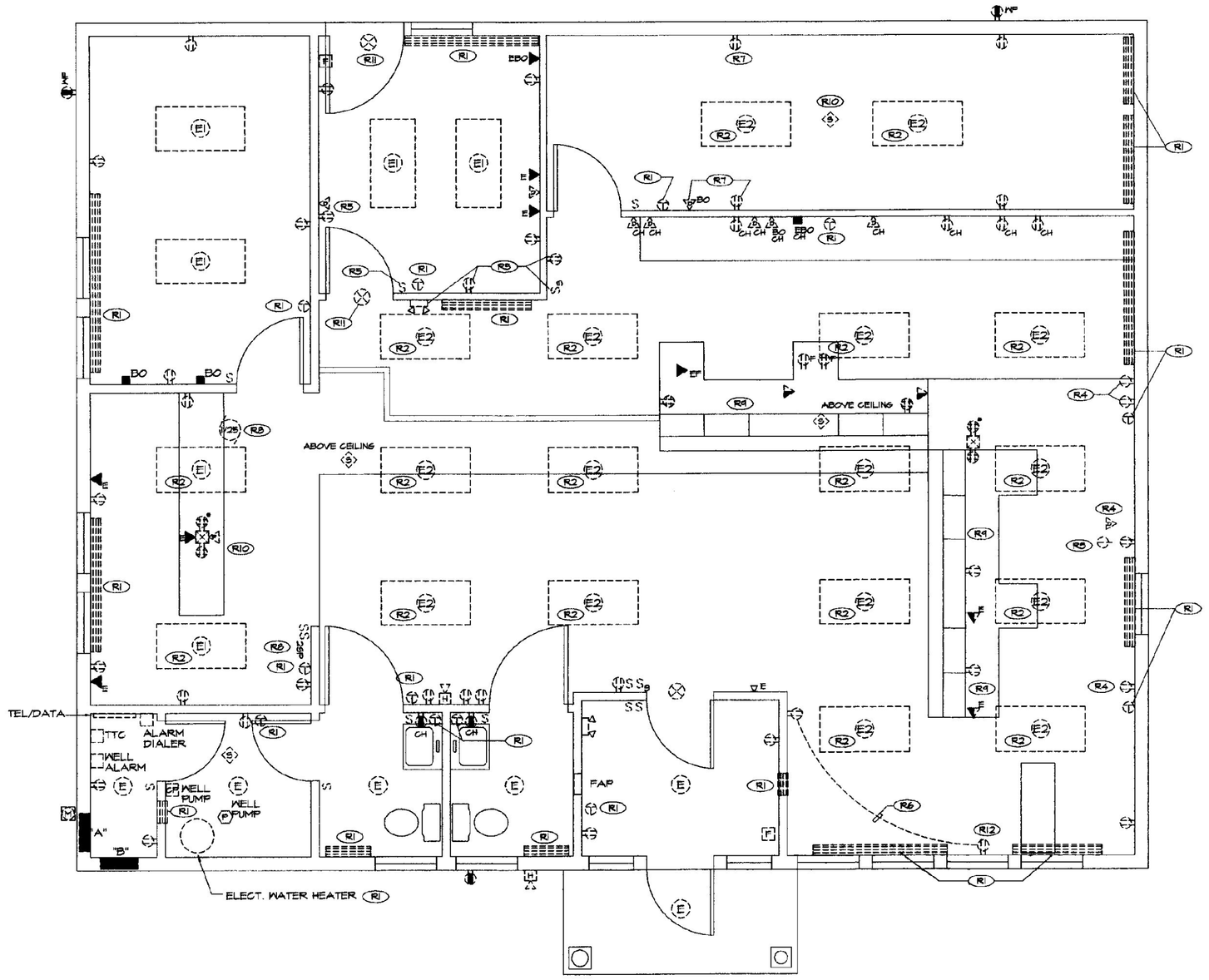
NOTES:
1. FIRE ALARM SMOKE DETECTOR AND PULL STATION IN ATTIC SHALL BE CONNECTED TO SEPARATE ZONE USING SPARE ZONE CARD IN F.A.P.

AS-BUILT

THE STATE OF VERMONT
CHARLES F LANE No. 4130
PROFESSIONAL ENGINEER
Charles F Lane

ERTEL ASSOCIATES ARCHITECTS 15 CENTRAL STREET WOODSTOCK, VERMONT 05091 LANE ASSOCIATES CONSULTING ENGINEERS 51 KILLINGTON AVENUE RUTLAND, VERMONT 05701	DEPARTMENT OF MOTOR VEHICLES RUTLAND – RENOVATION & ADDITION MAIN FLOOR PLAN - POWER & SIGNAL	N ACT. N NOM	JOB #: CADD #: BY: JDL/BML SCALE: AS NOTED DATE: MAY 2000 REVISIONS:	E2

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MAIN FLOOR PLAN - ELECTRICAL REMOVALS

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

REMOVAL NOTES (PLAN SYMBOL (R#))

(R1) REMOVE ELECTRIC HEATING UNIT, THERMOSTAT AND ALL WIRING INCLUDING HOMERUN TO PANEL 'B'.

(R2) REMOVE EXISTING LIGHTING FIXTURES AND SAVE FOR RECONDITIONING AND RE-INSTALLATION. SAVE WIRING FOR EXTENSION TO NEW LOCATIONS SHOWN ON DWG. E-2.

(R3) REMOVE RECEPTACLE FOR A/C UNIT INCLUDING ALL WIRING AND HOMERUN TO PANEL 'A'. CIRCUIT BREAKER A-22 BECOMES SPARE.

(R4) REMOVE ALL DEVICES AND OUTLETS ON WALLS TO BE REMOVED. SAVE CIRCUITS FOR EXTENSION TO NEW LOCATIONS AS SHOWN ON DWG. E-2.

(R5) EXISTING WALL SHALL BE MOVED APPROXIMATELY 1.75' TO THE WEST. RELOCATE EXISTING DEVICES AND WIRING AS NECESSARY.

(R6) RELOCATE EXISTING BRANCH CIRCUIT WIRING AS NECESSARY TO CLEAR NEW WINDOW OPENINGS. FIELD VERIFY EXACT REQUIREMENTS.

(R7) REMOVE EXISTING DEVICES AND OUTLETS. ADJUST BRANCH CIRCUIT WIRING TO MAINTAIN SERVICE TO ALL OTHER DEVICES TO REMAIN.

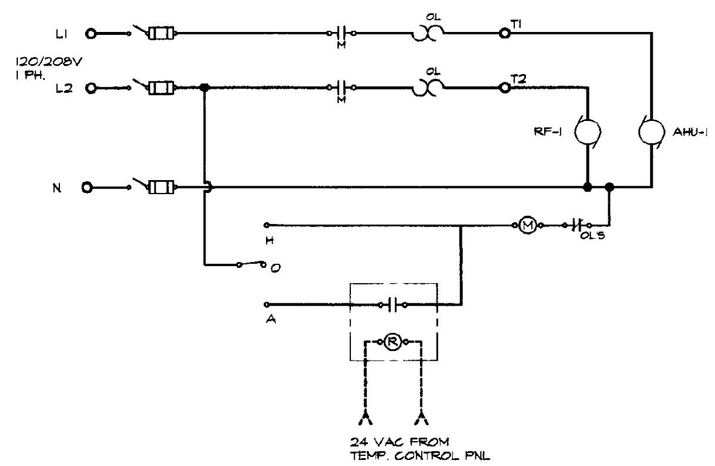
(R8) REMOVE ALL WIRING AND CONTROLS FOR EXHAUST FAN, INCLUDING HOMERUN TO PANEL 'A'.

(R9) REMOVE ALL WIRING, DEVICES AND OUTLETS AT EXISTING WORK STATIONS. SAVE CIRCUITS FOR EXTENSION TO NEW WORK STATIONS.

(R10) REMOVE EXISTING DEVICE, SAVE FOR RELOCATION AS SHOWN ON E2. EXTEND EXISTING CIRCUITS TO NEW LOCATION AS REQUIRED.

(R11) REMOVE EXIT LIGHT AND WIRING BACK TO LAST FIXTURE TO REMAIN. RETURN EXIT LIGHT TO OWNER.

(R12) RELOCATE DUPLEX RECEPTACLE UP FROM 12" TO 18" A.F.F. TO ALLOW FOR NEW 12" HIGH RADIATION BY MECH. CONTRACTOR.



MOTOR CONTROL DIAGRAM AHU-1 & RF-1

NOT TO SCALE

NOTES:

1. BONDING CONDUCTOR IS NOT SHOWN.
2. SIMILAR FOR AHU-2 AND RF-2.
3. PROVIDE PROPERLY SIZED OVERLOAD HEATERS FOR EACH MOTOR.

LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURER	STYLE	CATALOG #	FINISH	DIFFUSER	MOUNTING	LAMPS	REMARKS
A	COLUMBIA	TROFFER	2562321PCS120	WHITE	SILVER PARACUBE	CLG-RECESSED	(2) 32W T8	1
B	PRESCOLITE	WALL WASHER	CFRCB826EB-STCBCLWH	WHITE	ACRYLIC	CLG-RECESSED	(2) 26W DTT	1
C	COLUMBIA	WALL MOUNT	N132A120	WHITE	ACRYLIC	WALL @ TOP OF MIRROR	(1) 32W T8	1
D	COLUMBIA	STRIP	K232 120	WHITE	NONE	CLG-SURFACE	(2) 32W T8	1
E	EXISTING	INCANDESCENT						
E1	EXISTING	TROFFER	4 LAMP					2
E2	EXISTING	TROFFER	2 LAMP					2
F	STONCO	HID WALL PACK	TLX55NLXL	DK. BRONZE	POLYCARBONATE PRISMATIC	WALL @ 8'-6"	(1) 55W HPS	
EXIT	PRESCOLITE	EXIT/EMERG.	EDX4-LED-R	WHITE	RED	WALL	FURNISHED WITH FIXTURE	
EM	PRESCOLITE	EMERG.	ED62	WHITE	NONE	WALL	FURNISHED WITH FIXTURE	

REMARKS:

1. ELECTRONIC BALLAST.
2. REFER TO SPECIFICATIONS FOR RECONDITIONING OF FIXTURES INCLUDING NEW LAMPS AND BALLAST.

ELECTRICAL LEGEND & ABBREVIATIONS

- RECESSED FLUORESCENT FIXTURE, TYPE AS INDICATED, REFER TO SCHEDULE. SUBSCRIPTS: a = SWITCHGROUP, NL = UNSWITCHED NIGHT LIGHT.
- INCANDESCENT, PL OR CIRCLINE FLUORESCENT OR H.I.D. FIXTURE, TYPE AS INDICATED. REFER TO SCHEDULE. SUBSCRIPTS: a = SWITCHGROUP, NL = UNSWITCHED NIGHT LIGHT
- CEILING MOUNTED EXIT LIGHT
- CEILING MOUNTED EXIT LIGHT WITH EMERGENCY LIGHTING HEADS
- WALL MOUNTED EMERGENCY LIGHTING BATTERY PACK WITH DUAL HEADS, M.H. = 7' - 6"
- WALL MOUNTED REMOTE EMERGENCY LIGHTING HEAD, M.H. = 7' - 6"
- S_a SINGLE POLE SWITCH, MH = 4'-0" U.O.N., SUBSCRIPTS: 2 = 2 POLE, 3 = 3 WAY, 4 = 4 WAY, D = DIMMER, V = VARIABLE SPEED, a = SWITCHGROUP
- DUPLEX RECEPTACLE, MH = 1'-6" U.O.N.
- DUPLEX RECEPTACLE WITH 5 MA G.F.C.I., MH = 1'-6" U.O.N.
- SINGLE RECEPTACLE, MH = 1'-6" U.O.N.
- FLOOR OUTLET WITH WIRING DEVICE (RECEPTACLE SHOWN)
- CEILING MOUNTED FAN EXHAUST, PROVIDED BY MECH. CONTR., WIRED BY ELECT. CONTR.
- BRANCH CIRCUIT WIRING.
- DC WIRING FOR EMERGENCY LIGHTING SYSTEM
- HOME RUN TO PANELBOARD AND CIRCUIT BREAKER INDICATED.
- EXISTING PANELBOARD WITH DESIGNATION, 120/208 VOLTS.
- UTILITY METER, MH = 5'0"
- MOTOR WITH HORSEPOWER DESIGNATED. F= FRACTIONAL HORSEPOWER LESS THAT 1/8 HP.
- CP PRE-WIRED CONTROL PACKAGE FURNISHED WITH EQUIPMENT
- 30/15=FRAME/FUSE SIZE, N=NOT FUSED
- S_M TOGGLE TYPE MOTOR DISCONNECT SWITCH, HP RATED, MH = 4'-6" U.O.N.S. OR EQUIPMENT COMBINATION MAGNETIC MOTOR STARTER WITH FUSED DISCONNECT SWITCH.
- S_B BURNER EMERGENCY SWITCH, REFER TO SPECIFICATIONS, MH = 4'-6" U.O.N.
- LWCO LOW WATER CUT-OFF SWITCH
- R LOW VOLTAGE CONTROL RELAY, PROVIDED BY MECHANICAL CONTRACTOR.
- TSH-1 TOE SPACE HEATER, PROVIDED BY MECH. CONTR. WIRED BY ELECT. CONTR.
- CH-1 CABINET HEATER, PROVIDED BY MECH. CONTR. WIRED BY ELECT. CONTR.
- CEILING MOUNTED EXHAUST FAN, PROVIDED BY MECH. CONTR. WIRED BY ELECT. CONTR.
- T TEMPERATURE CONTROL TRANSFORMER, PROVIDED BY MECH. CONTRACTOR
- T THERMOSTAT, PROVIDED BY MECH. CONTR. 120 VAC WIRING BY ELECT. CONTR.
- A_H AQUASTAT, PROVIDED BY MECH. CONTR. WIRED BY ELECT. CONTR. H=HIGH LIMIT.
- FIR-O-MATIC SWITCH, CEILING MOUNTED.
- TCP TEMPERATURE CONTROL PANEL, PROVIDED BY MECH. CONTRACTOR.
- MOTORIZED DAMPER, PROVIDED BY MECH. CONTR. WIRED BY ELECT. CONTR. CA = COMBUSTION AIR, VN = VENTILATION
- FAP FIRE ALARM PANEL
- F FIRE ALARM MANUAL PULL STATION, MH = 48" = U.O.N.
- D_D FIRE ALARM SMOKE DETECTOR. SUBSCRIPTS: D= DUCT MOUNTED
- H_H FIRE ALARM COMBINATION HORN AND STROBE LIGHT, MH = 7'-0" TO BOTTOM, U.O.N.
- H_H FIRE ALARM HORN, MH = 7' - 0".
- FIRE ALARM STROBE LIGHT, MH = 7' - 0"
- TELEPHONE OUTLET, MH = 1'-6" U.O.N., SUBSCRIPT: W = WALL MOUNTED AT 5'-0", E = EXISTING.
- DATA OUTLET, MH = 1'-6" U.O.N., SUBSCRIPT: W = WALL MOUNTED AT 5'-0".
- COMBINATION TELEPHONE/DATA OUTLET, MH = 1'-6" U.O.N.
- BO BLANK OUTLET, MH = 1'-6" U.O.N., SUBSCRIPT: W = WALL MOUNTED AT 5'-0"
- MH MOUNTING HEIGHT TO CENTER OF OUTLET ABOVE FINISHED FLOOR OR GRADE.
- CH COUNTER HEIGHT MOUNTING - 6" ABOVE BACKSPLASH.
- U.O.N. UNLESS OTHERWISE NOTED
- WP WEATHERPROOF, N.E.M.A. 3R, MINIMUM.
- TYP TYPICAL
- E EXISTING OUTLET TO REMAIN (USED WHERE SYMBOL CANNOT BE DASHED)
- ER EXISTING OUTLET, RELOCATED POSITION.

NOTE:
ANY SYMBOL DRAWN DASHED INDICATED EXISTING DEVICES.

AS-BUILT

/ /

THE STATE OF VERMONT
CHARLES F. LANE No. 4100
PROFESSIONAL ENGINEER

Charles F Lane

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DEPARTMENT OF MOTOR VEHICLES RUTLAND – RENOVATION & ADDITION

MAIN FLOOR PLAN - ELECTRICAL REMOVALS

N ACT. N NOM.

JOB #:
CADD #:
BY: JDL/BML

SCALE: AS NOTED
DATE: MAY 2000
REVISIONS:

E3

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