

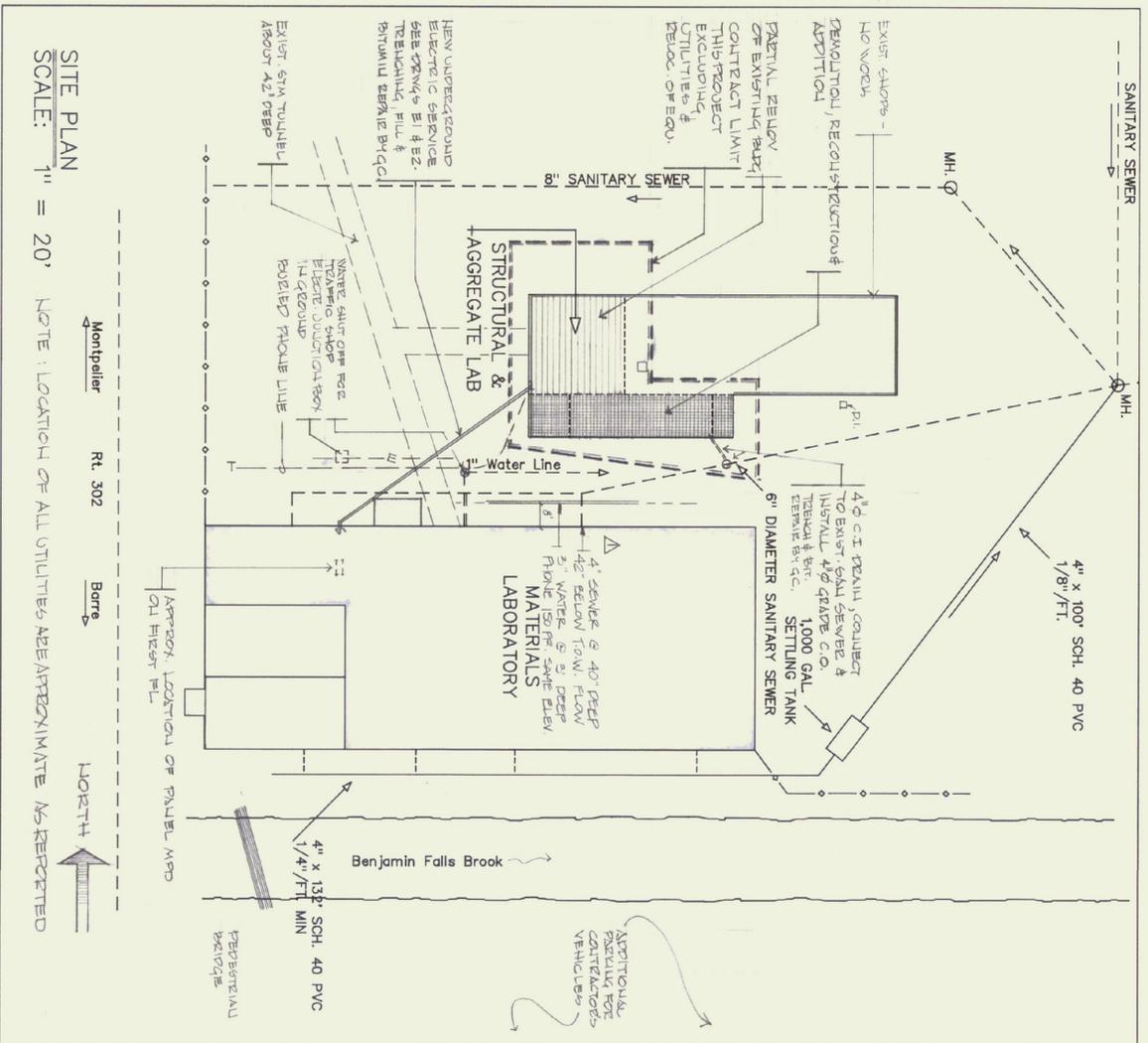
State of Vermont  
 Agency of Transportation  
 Paul R. Philbrook, Secretary

Renovations To The  
 Materials & Research Laboratory  
 Of The  
 Agency of Transportation Complex  
 Berlin, Vermont

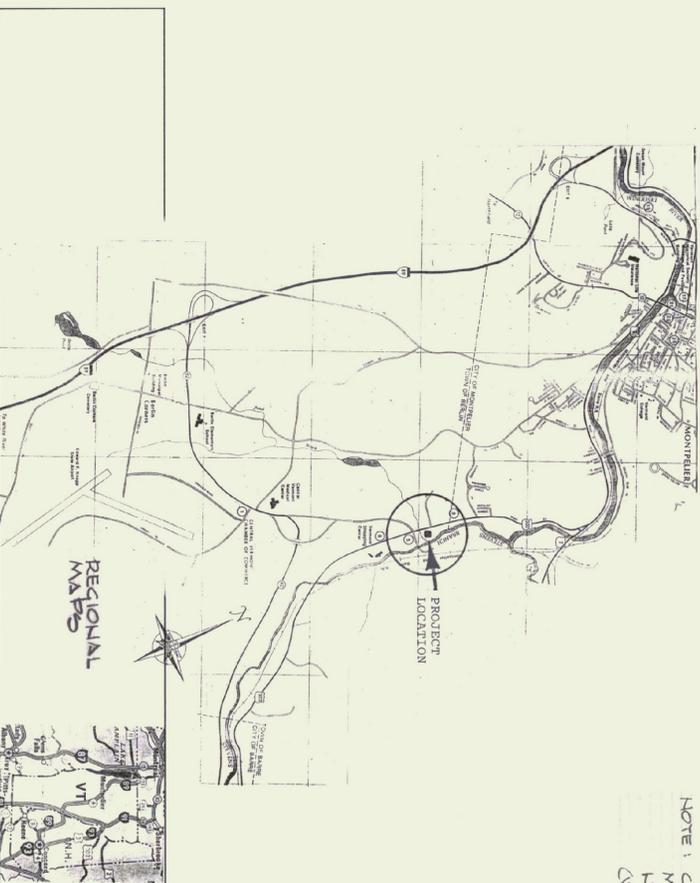
**PHASE I**

**INDEX TO DRAWINGS**

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REFERENCE PLAN	E2	POWER PLAN
EQUIPMENT LAYOUT	M1	DEMOLITION, H&V PLAN
FOUNDATION & FRAMING PLAN	M2	PLUMBING PLAN, SCHEDULES
FLOOR PLAN		
BUILDING ELEVATIONS, SECTIONS		
WALL SECTIONS		
D1		TYPICAL DETAILS



NOTE: CONTRACTOR SHALL INSTALL MARKING TAPE ON TOP OF ALL NEW BURIED UTILITY LINES. (WATER, SEWER, ELECTRIC, FIBER, ETC.)



State of Vermont  
 Department of State Buildings  
 John Zampieri, Commissioner

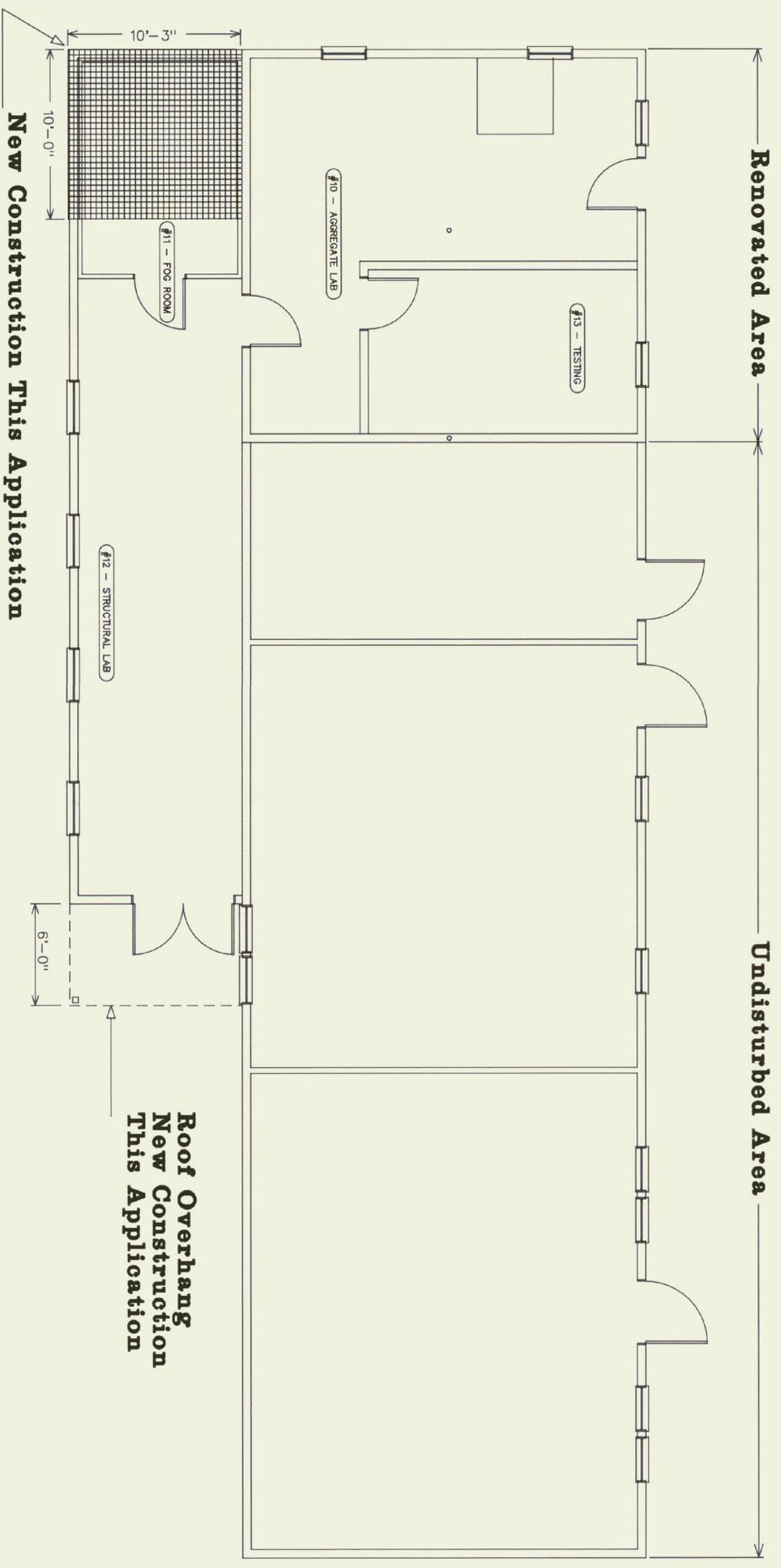
Materials & Research  
 Laboratory  
 Berlin, VT



Janison Design, Inc.  
 P.O. BOX 55 - FRED REX ARCHITECT  
 10001 Rte. 100, Southbury, VT 05476  
 (802) 244-5800  
 Architect's Project No. 247

TITLE SHEET  
 REV. NOV. 1989  
 REV. - Δ AS BUILTS  
 DEC. 1991

DATE:  
 OCT. 10,  
 1989  
 DWG. NO.

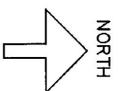
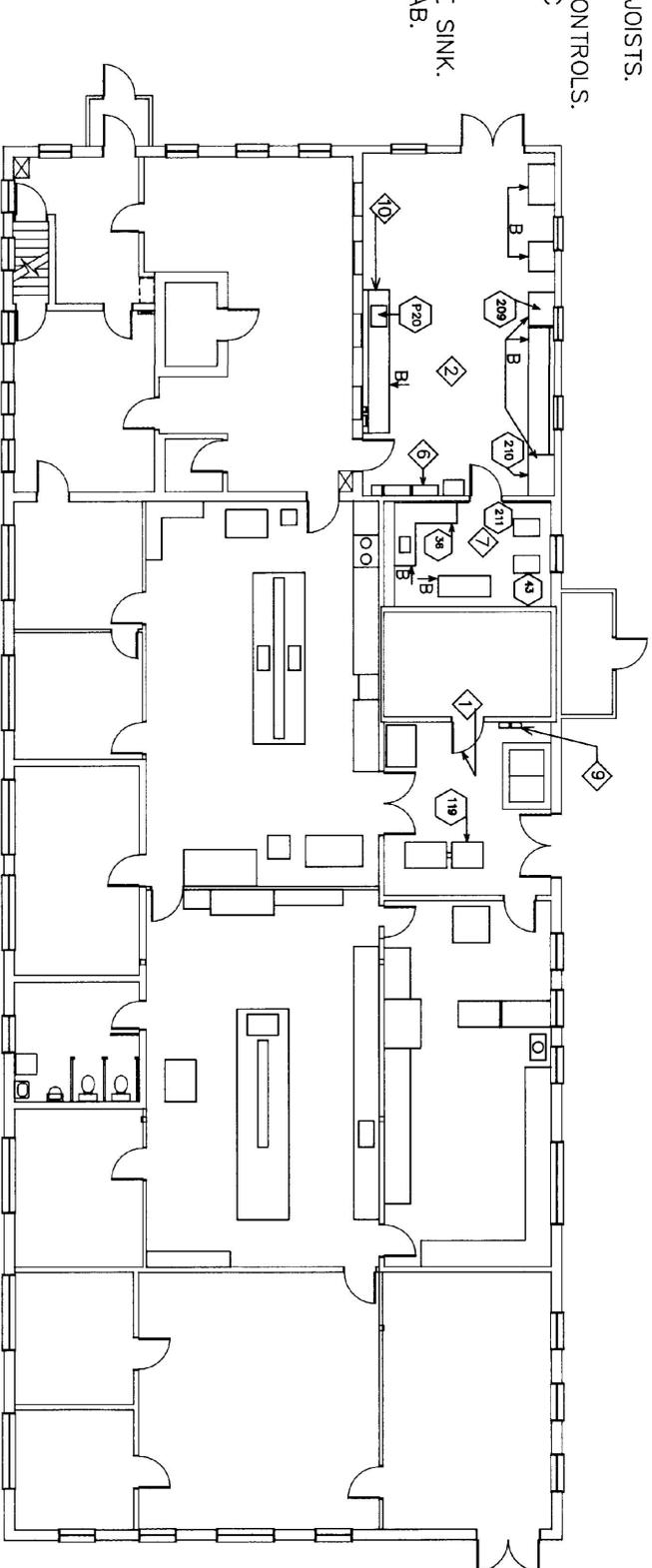
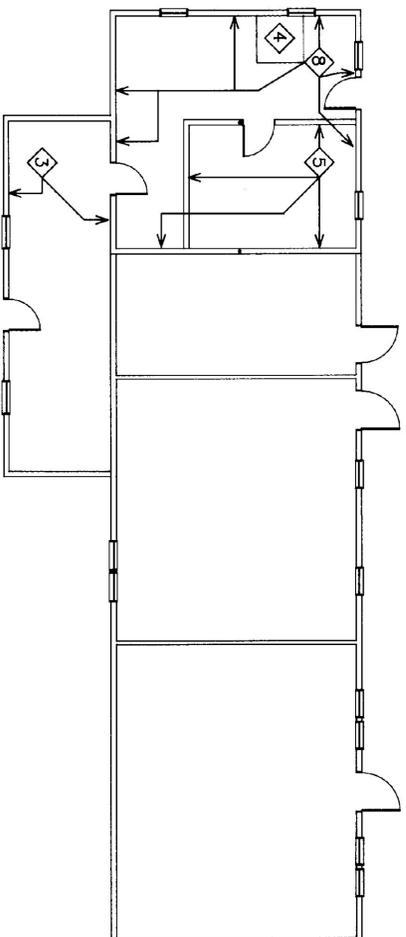


FLOOR PLAN  
SCALE: 1/4" = 1'-0"

<p>State of Vermont Department of State Buildings John Zampieri, Commissioner</p>	<p>Materials &amp; Research Laboratory Berlin, VT</p>	<p>Janson Design, Inc. P.O. BOX 55 - FREDON ROAD, FREDON, VERMONT, VT 05678 (802) 244-5800</p>	<p>Architect's Project No. 247</p>	<p>DATE: 6-30-89 REV: OCT 10, 1989 DWG. NO. <b>Info</b></p>
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NOTES:

- 1 EXISTING STAINLESS STEEL DOOR FRAME AND DOOR TO BE REMOVED AND RE-INSTALLED IN NEW FOG ROOM.
- CONTRACTOR HAS THE OPTION TO FURNISH AND INSTALL A MATCHING NEW STAINLESS STEEL DOOR FRAME AND RE-USE THE DOOR AND HARDWARE ONLY.
- 2 MECHANICAL EQUIPMENT IN THIS ROOM IS TO BE REMOVED AND RE-INSTALLED IN THE AGGREGATE LAB. REFER TO DRAWINGS M1 AND M2.
- 3 DEMOLISH AND REMOVE THE EXISTING LEAN-TO, INCLUDING FOUNDATION AND PREPARE SITE FOR THE NEW CONSTRUCTION.
- 4 EXISTING PIT AND COVER, SEE DETAILS FOR NEW INSTALLATION.
- 5 EXISTING PARTITIONS TO BE REMOVED. REFER TO DETAILS FOR BEAM AND JOIST REPAIR.
- 6 LOCATION OF ELECTRICAL PANELS.
- 7 EXISTING TESTING ROOM.
- 8 EXISTING INTERIOR SURFACES AND INSULATION (IF ANY) TO BE REMOVED. ADD 2"x2" FURRING TO STUDS, SILLS & HEADERS. INSTALL NEW FULL WALL FIBERGLASS INSULATION, VAPOR BARRIER, 5/8" GYP BD. & MAX INSULATION IN ROOF JOISTS.
- 9 APPROXIMATE LOCATION OF FOG ROOM CONTROLS. SEE DWG M1 & M2, NOTE #15, FOR SPECIFIC INSTRUCTIONS.
- 10 NEW CABINET (FURNISHED BY OWNER). CONTRACTOR: DISCONNECT, CAP & REMOVE SINK. RELOCATE & INSTALL IN NEW AGGREGATE LAB. SEE L1, A2, M1 & M2. SEE ALSO NOTE H THIS DRAWING.



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

**Demolition and Alteration**  
The Contractor, Subcontractor or assigned personnel shall:

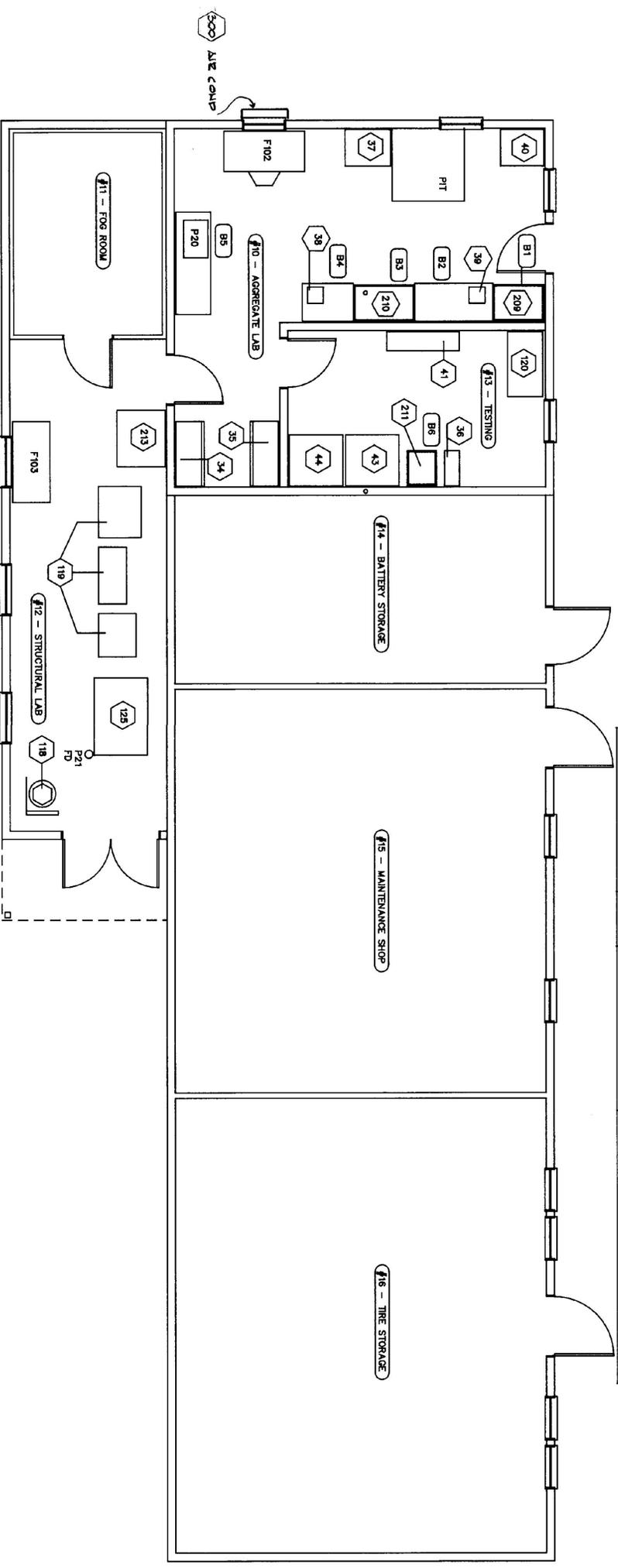
- A. Furnish all labor, materials and equipment to complete the demolition and alteration work described on the drawings and specified herein. Install all necessary and required temporary safety rails, bars, enclosures and/or fences.
- B. Demolition and removal shall be complete to facilitate the remodeling of the structure.
- C. All debris shall be removed from the structure and site. Do not stockpile debris on the site or on adjacent properties. Accumulation of debris within the building is not permitted. Burning of debris on site is not permitted.
- D. All demolitions shall be done in an orderly manner. Install and maintain adequate shoring, bracing and temporary supports to avoid damage and/or collapse of the structure. Maintain exits accessible at all times. Masonry shall be demolished in small sections or units. Bracing, shoring, scaffolding and platforms shall be used to provide safe working conditions.
- E. Remove walls, partitions, portions of floors, doors, frame trim, casing, bulletin boards, plumbing fixtures, light fixtures and enlarge, provide and/or cut new openings where shown and required.
- F. Removal of walls and partitions shall be done neatly and completely (except for temporary shoring and bracing) with minimum damage to adjacent walls and ceilings, piping, heating and other equipment.
- G. The equipment will be moved by the Owner. Contractor shall disconnect, dismantle, and reconnect all equipment.
- H. Counters (all "g" items) will be furnished and installed by the Owner. Contractor shall cut openings for sinks and install sinks complete with hot water and drain.
- I. The Contractor's bid shall include the rip-out and potential salvage/reuse of existing built-in ("g" item) counters.
- J. Contractor shall cap all discontinued piping, steam and water piping. Electrical work shall be removed back to the source.

<p>3 NOTE &amp; ID SYMBOL</p> <p>59 EQUIPMENT NO. SEE DWG L1 FOR LOCATION &amp; DESCRIPTION. REFER TO A, E &amp; M DWGS FOR INSTALLATION.</p>	<p>State of Vermont Department of State Buildings John Zampieri, Commissioner</p>	<p>Materials &amp; Research Laboratory Berlin, VT</p>		<p>Jonson Design, Inc. 2020 VILLAGE CENTER P.O. BOX 55 - BERLIN, VERMONT, VT 05607 (802) 247-9600</p> <p>Architect's Project No. 247</p>	<p>REFERENCE &amp; RIP-OUT PLAN (EXISTING CONDITIONS)</p> <p>REV. #1 - NOV. 1989</p>	<p>DATE: OCT. 10, 1989</p> <p>DWG. NO. <b>R</b></p>
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ROOM	SYMBOL	EQUIPMENT SCHEDULE	REMARKS
ROOM	SYMBOL	LABEL	NAME
#10 - AGGREGATE LAB	34		OVEN
	35		OVEN
	36		GRINDER
	37		GILSON SPANNER
#11 - FOG ROOM	38		BALANCE
	39		BALANCE
	40		RO-TAP
#12 - STRUCTURAL LAB	41		BATH
	42		BALANCE
	43		WEAR TESTER
	44		WEAR TESTER
	209		CONCRETE SAW
	210		DUST HOOD
	211		DUST HOOD
	300		AIR COND.
			INSTALLED BY CENTER.

ROOM	SYMBOL	BUILT-IN SCHEDULE	REMARKS
ROOM	SYMBOL	LABEL	NAME
#10 - AGGREGATE LAB	B1		COUNTER
	B2		COUNTER
	B3		COUNTER
	B4		COUNTER
	B5		COUNTER
	B6		COUNTER
	B7		SHELVING
#11 - FOG ROOM			

ROOM	SYMBOL	FURNITURE SCHEDULE	REMARKS
ROOM	SYMBOL	LABEL	NAME
#10 - AGGREGATE LAB	F102		DESK (LAWN)
#12 - STRUCTURAL LAB	F103		TABLE



STRUCTURAL & AGGREGATE LAB  
FLOOR PLAN  
SCALE: 1/4" = 1'-0"

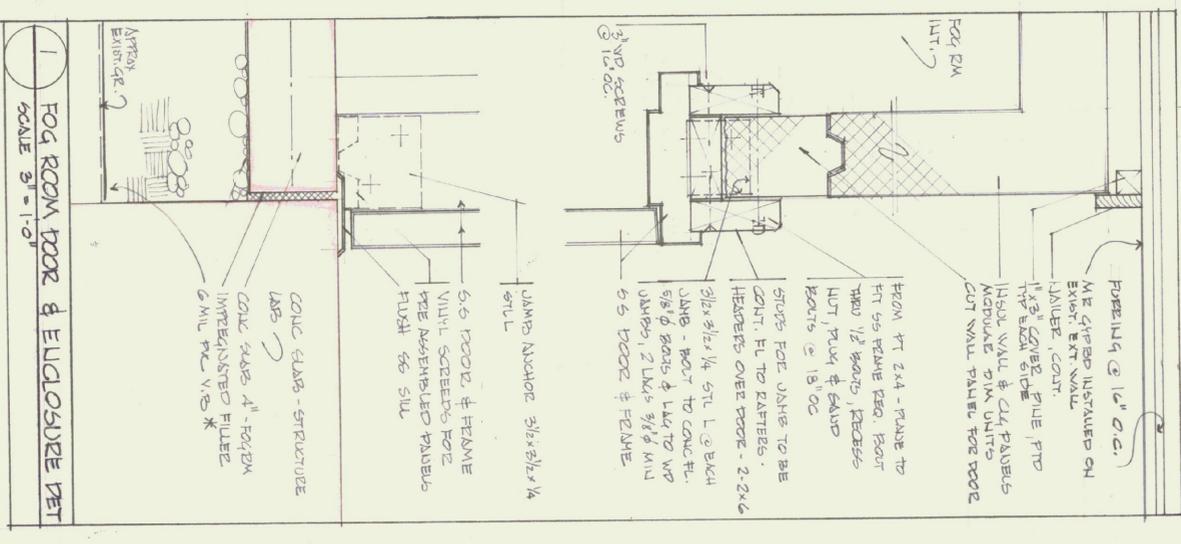
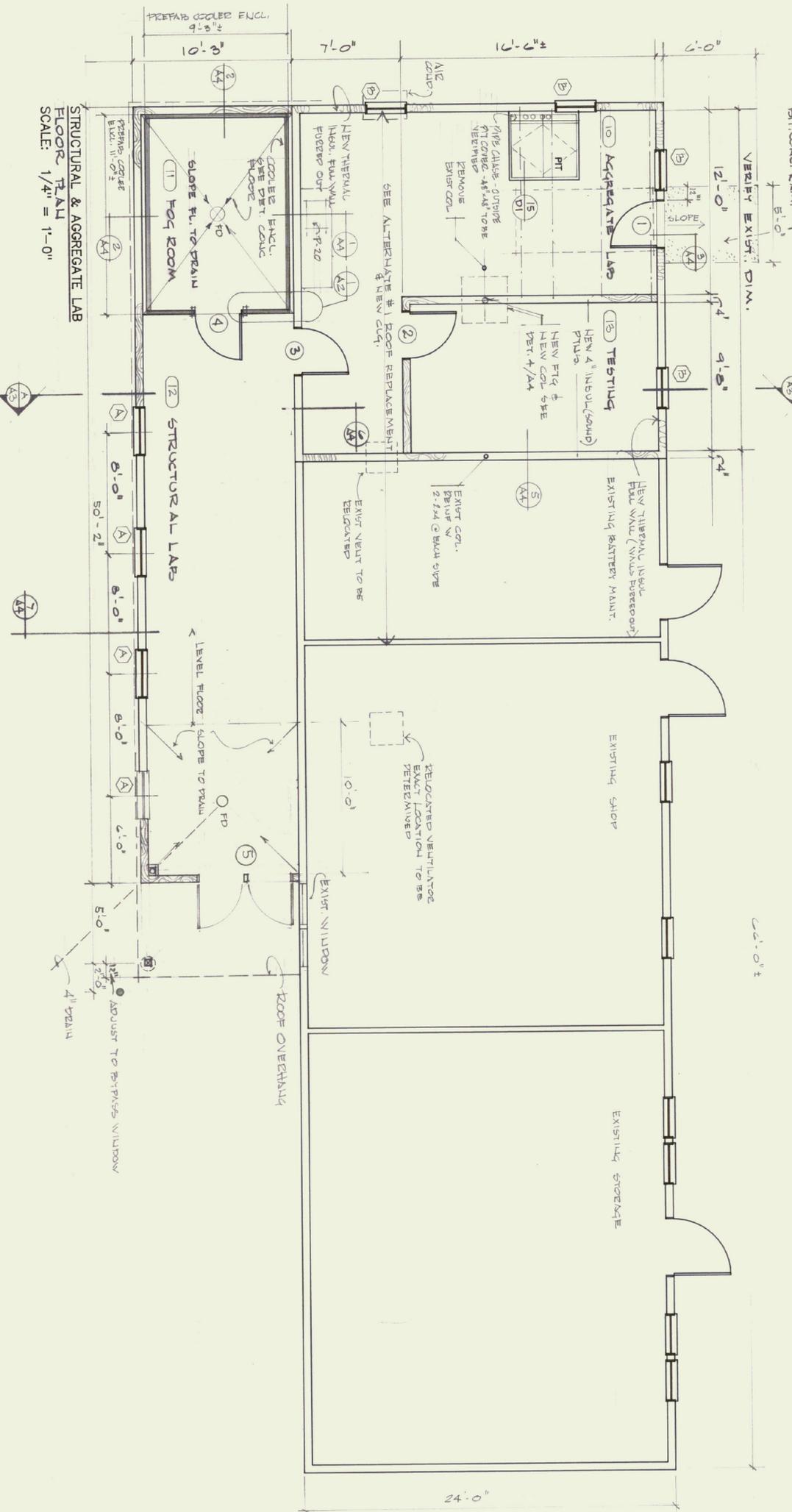
State of Vermont Department of State Buildings John Zampieri, Commissioner	State Highway Laboratory Berlin, VT Project No. 247		Jonson Design, Inc. <small>100 N. MAIN ST. ARCHITECT          BERLIN, VERMONT          (802) 244-9600</small>	DATE: OCT 16 89
EQUIPMENT LAYOUT REV. NOV 6 1989				DWG. NO. <b>L1</b>



DOOR		FRAME		UNITS		THRESH		HOW. SEE		REMARKS	
NO.	TYPE	WIDTH	HGT.	THK.	MATL.	FIN.	DLT. NO.	UNIT	THRESH.	HOW. SEE	REMARKS
1	1	3'-0"	6'-6"	1 1/2"	HM	PTD	2-12/D1	2-2x10			USUAL DOOR, USUAL & 4x8 FT. GL.
2	1	1-1/2"	3'-0"	6'-6"	1 1/2"	HM	PTD	1'-6"/D1	2-2x12		
3	1	1-1/2"	3'-0"	6'-6"	1 1/2"	HM	PTD	1'-6"/D1	2-2x12		
4	6	3'-0"	6'-6"	1 1/2"	HM	PTD	1'-6"/D1	2-2x12			EXIST. EXIST. DOOR, FRAME
5	4	2'-30"	7'-0"	1 1/2"	HM	PTD	4-12/D1	2-2x12	PER 15/5		USUAL DOOR, USUAL & 4x8 FT. GL. REMOVE, C/OE MULLION

ROOM		FLOOR		BASES		WALLS		CEILING		TRIM		CLG. HGT.		REMARKS	
NO.	NAME	MATL.	FIN.	MATL.	FIN.	MATL.	FIN.	MATL.	FIN.	MATL.	FIN.	CLG.	HGT.	REMARKS	
10	AGGREGATE LAB	CONC.	PTD	CONC.	PTD	CONC.	PTD	CONC.	PTD	CONC.	PTD	8'-0"	10'-0"	ALUMINUM FL. COVERS, USUAL & 4x8 FT. GL. SEE NOTE # 5	
11	FOG ROOM	CONC.	PTD	CONC.	PTD	CONC.	PTD	CONC.	PTD	CONC.	PTD	8'-0"	10'-0"	PREPARE WALLS, USUAL & 4x8 FT. GL.	
12	STRUCTURAL LAB	CONC.	PTD	CONC.	PTD	CONC.	PTD	CONC.	PTD	CONC.	PTD	8'-0"	10'-0"		
13	TESTING	CONC.	PTD	CONC.	PTD	CONC.	PTD	CONC.	PTD	CONC.	PTD	8'-0"	10'-0"		

WINDOW		SCHEDULE		REMARKS	
NO.	TYPE	MAT.	MAJUF. & MODEL	REMARKS	
A	7-11	W/P/UNV	ALUMINUM, PRE-INSULATED, POLYESTER GLASS, 24x30	LOW & USUAL GL. & FULL SCREEN	
B	2-H	"	VEERY REPLACEMENT SIZE APPROX. 24x30	LOW & USUAL GL. & FULL SCREEN	



- NOTES:
1. THE RELOCATION OF EQUIPMENT & AVAILABLE OPENINGS/DOOR INSTALLATION MUST BE COORDINATED WITH OWNER.
  2. EXISTING POWER PANEL MAY BE USED AS TEMP. POWER PANEL BY G.C.
  3. CONTRACTOR SHALL REPAIR ALL DISTURBED AREAS WITHIN THE CONSTRUCTION LIMIT WITH 2" PORTLAND CONC.
  4. SEE NOTE # 5 - FLOOR F. - NEW INSUL. VAPOR BARRIER & GYP BOARD ON ALL SURFACES INCL. CLG.

\*OWNER REQUESTED THIS LOCATION FOR VAPOR BARRIER.

State of Vermont  
Department of State Buildings  
John Zampieri, Commissioner

Materials & Research  
Laboratory  
Berlin, VT



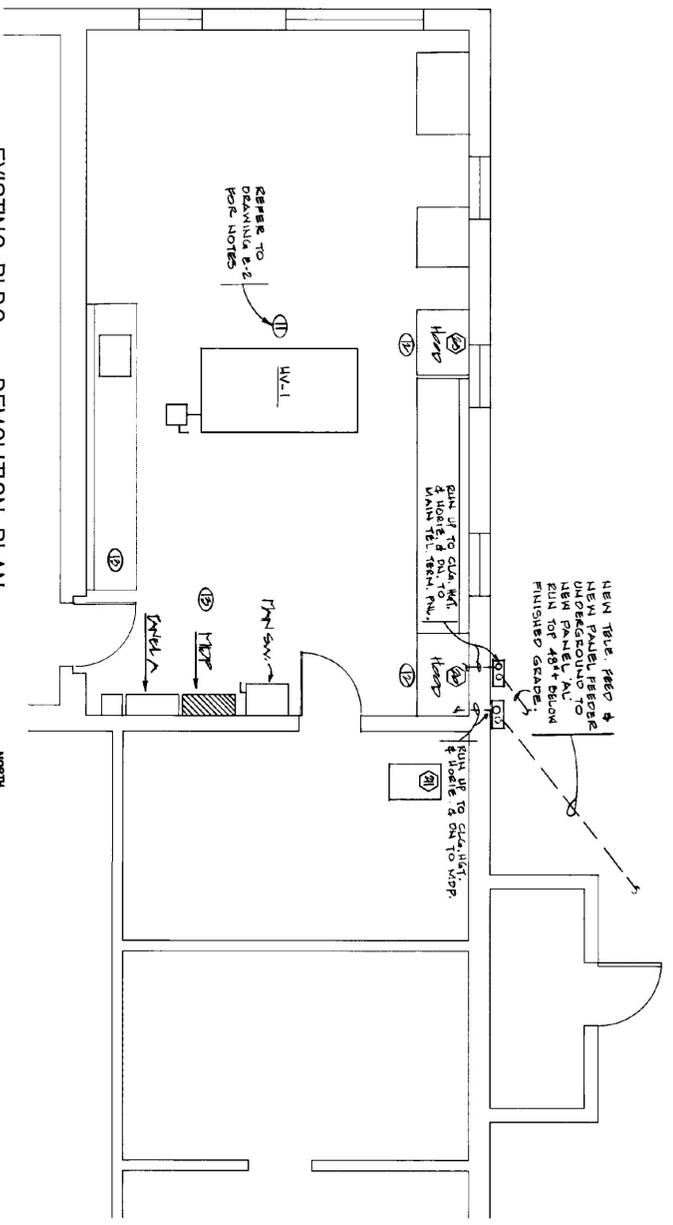
Janson Design, Inc.  
FRED NEIL, ARCHITECT  
1000 RIVER ROAD, WASHINGTON, VT 05678  
(802) 244-5850  
Architect's Project No. 247

FLOOR PLAN  
DATE: OCT. 10, 1989  
DWG. NO. A2





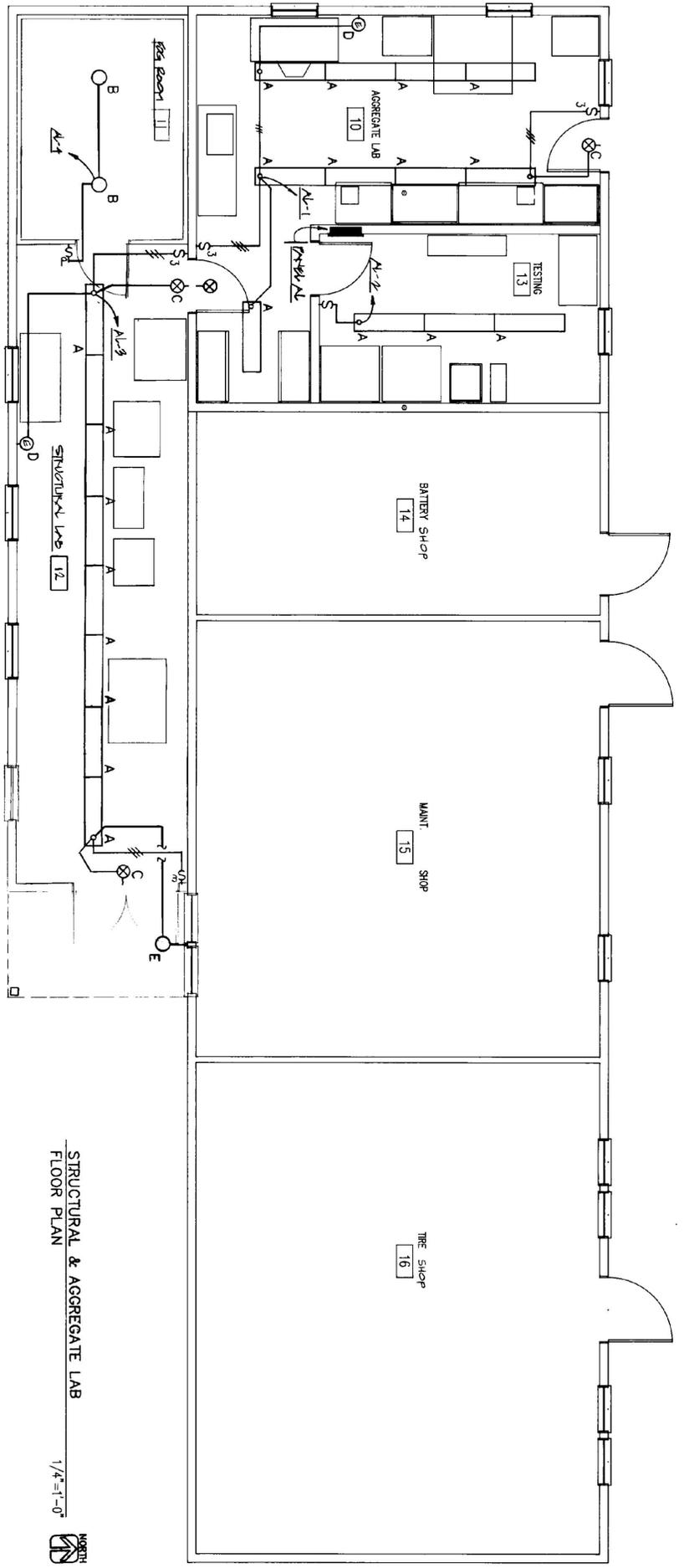




EXISTING BLDG. - DEMOLITION PLAN  
1/4"=1'-0"



TYPE MANUFACTURER	CAT. NO.	LAMPS	DEFUSER	MOUNTING	REMARKS
A LITHONIA	2-1/2" x 4-1/2" x 1-1/2"	2-1/2" x 4-1/2" x 1-1/2"	FLUORESCENT	FLUORESCENT	SUSPENDED FLUORESCENT LIGHT
B LITHONIA	4-1/2" x 6-1/2" x 1-1/2"	4-1/2" x 6-1/2" x 1-1/2"	FLUORESCENT	FLUORESCENT	SUSPENDED FLUORESCENT LIGHT
C LITHONIA	6-1/2" x 8-1/2" x 1-1/2"	6-1/2" x 8-1/2" x 1-1/2"	FLUORESCENT	FLUORESCENT	SUSPENDED FLUORESCENT LIGHT
D LITHONIA	8-1/2" x 10-1/2" x 1-1/2"	8-1/2" x 10-1/2" x 1-1/2"	FLUORESCENT	FLUORESCENT	SUSPENDED FLUORESCENT LIGHT
E LITHONIA	10-1/2" x 12-1/2" x 1-1/2"	10-1/2" x 12-1/2" x 1-1/2"	FLUORESCENT	FLUORESCENT	SUSPENDED FLUORESCENT LIGHT



STRUCTURAL & AGGREGATE LAB  
FLOOR PLAN  
1/4"=1'-0"



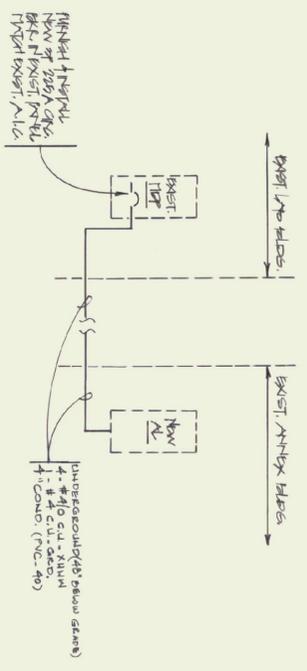
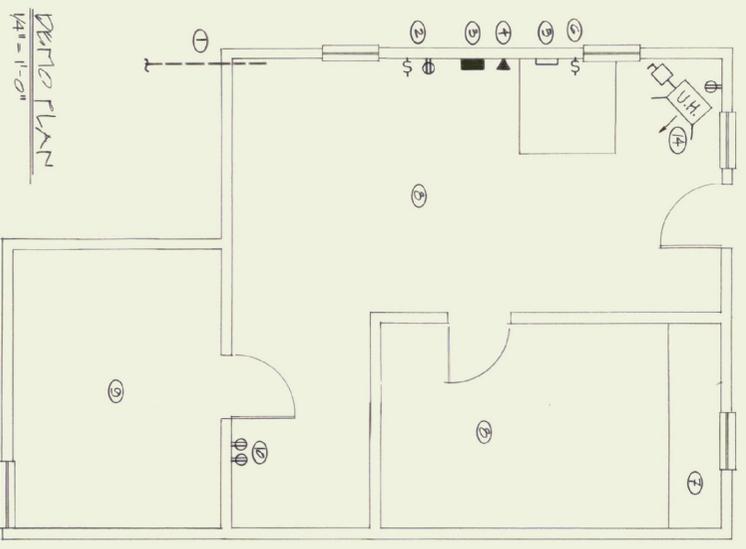
LEGEND

- FLUORESCENT FIXTURE, LETTER DENOTES TYPE, E.A. DENOTES EMERGENCY LIGHT
- INCANDESCENT AND/OR FLUORESCENT FIXTURE, CEILING MOUNT, LETTER DENOTES TYPE
- INCANDESCENT AND/OR FLUORESCENT FIXTURE, WALL MOUNT, LETTER DENOTES TYPE
- HIGH INTENSITY DISCHARGE (HID) FIXTURE, WALL MOUNTED, LETTER DENOTES TYPE
- EXIT/EMERGENCY FIXTURE, CEILING MOUNT, LETTER DENOTES TYPE
- SWITCH, SINGLE POLE, LENTON #121-1, 20A, GROUNDING, MOUNT 18" TO 24" A.F.F.
- SWITCH, THREE-WAY, LENTON #123-1, 20A, GROUNDING, MOUNT 18" TO 24" A.F.F.
- SWITCH, W/ROTOR LIGHT, LENTON #227-1, MOUNT 18" TO 24" A.F.F.
- DUPLEX RECEPT, LENTON #336-1, 20A, 125V, MOUNT BOTTOM 18" A.F.F., E.M.C. DENOTES ELECTRIC WATER COOLER,
- DUPLEX RECEPT, LENTON #336-1, 20A, 125V, MOUNT HORIZONTALLY ABOVE COUNTER HEIGHT,
- DOUBLE DUPLEX RECEPT, LENTON (2) #336-1, 20A, 125V, MOUNT 18" A.F.F., HORIZONTALLY ABOVE COUNTER HEIGHT
- DUPLEX RECEPT W/CEFL PROTECTION, LENTON #338-1, MOUNT HORIZONTALLY ABOVE COUNTER HEIGHT
- DUPLEX RECEPT W/CEFL PROTECTION, LENTON #338-1, W/81819 W.P. COVER MOUNT BOTTOM 24" A.F.F., W.P. DENOTES WATERPROOF
- DUPLEX RECEPT W/CEFL PROTECTION, LENTON #338-1, W/81819 W.P. COVER HORIZONTALLY ABOVE COUNTER HEIGHT, W.P. DENOTES WATERPROOF
- JUNCTION BOX
- DISCONNECT SWITCH, W.P. DENOTES WATERPROOF
- MOTOR CONTROLLER
- MOTOR
- / — PANELBOARD, SURFACE MOUNT/FLUSH MOUNT
- ▨ DISTRIBUTION PANEL
- / — BRANCH CIRCUIT BREAKER CONCEALED IN WALL, CEILING & FLOOR, ( / ) DENOTES CONDUIT OR RACEWAY
- / — HOMERUN TO PANELBOARD, ( / ) DENOTES CONDUCTOR COUNT
- TELEPHONE OUTLET
- TELEPHONE OUTLET

NOTES - ADDED BY ARCHITECT OCTOBER 12, 1989

1. REFER TO THE SITE PLAN ON THE TITLE SHEET FOR THE APPROXIMATE LOCATION OF EXISTING UTILITIES AND THE PROPOSED UNDERGROUND ELECTRICAL SERVICE AND DRAINAGE TRENCHES.

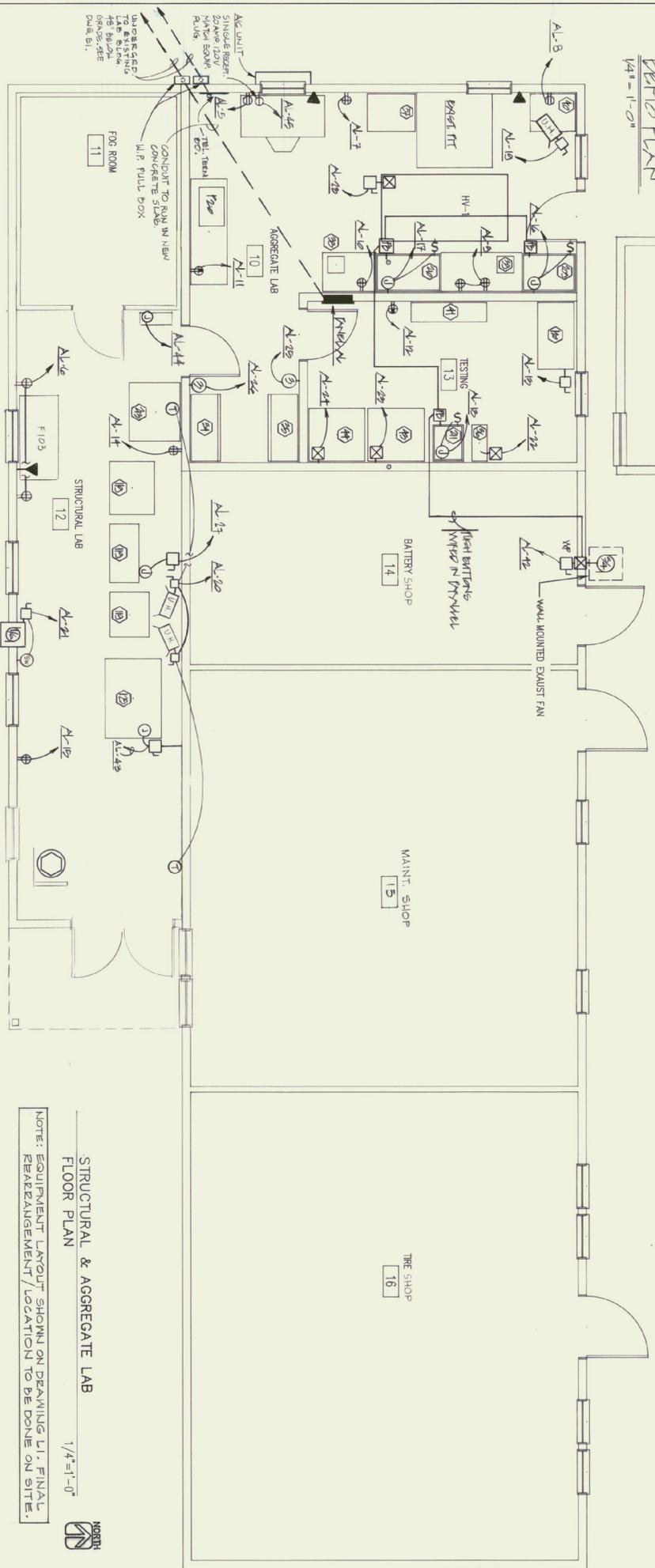
2. ON-DRAWING-44-44-81-44-82-44-83-44-84-44-85-44-86-44-87-44-88-44-89-44-90-44-91-44-92-44-93-44-94-44-95-44-96-44-97-44-98-44-99-44-100-44-101-44-102-44-103-44-104-44-105-44-106-44-107-44-108-44-109-44-110-44-111-44-112-44-113-44-114-44-115-44-116-44-117-44-118-44-119-44-120-44-121-44-122-44-123-44-124-44-125-44-126-44-127-44-128-44-129-44-130-44-131-44-132-44-133-44-134-44-135-44-136-44-137-44-138-44-139-44-140-44-141-44-142-44-143-44-144-44-145-44-146-44-147-44-148-44-149-44-150-44-151-44-152-44-153-44-154-44-155-44-156-44-157-44-158-44-159-44-160-44-161-44-162-44-163-44-164-44-165-44-166-44-167-44-168-44-169-44-170-44-171-44-172-44-173-44-174-44-175-44-176-44-177-44-178-44-179-44-180-44-181-44-182-44-183-44-184-44-185-44-186-44-187-44-188-44-189-44-190-44-191-44-192-44-193-44-194-44-195-44-196-44-197-44-198-44-199-44-200-44-201-44-202-44-203-44-204-44-205-44-206-44-207-44-208-44-209-44-210-44-211-44-212-44-213-44-214-44-215-44-216-44-217-44-218-44-219-44-220-44-221-44-222-44-223-44-224-44-225-44-226-44-227-44-228-44-229-44-230-44-231-44-232-44-233-44-234-44-235-44-236-44-237-44-238-44-239-44-240-44-241-44-242-44-243-44-244-44-245-44-246-44-247-44-248-44-249-44-250-44-251-44-252-44-253-44-254-44-255-44-256-44-257-44-258-44-259-44-260-44-261-44-262-44-263-44-264-44-265-44-266-44-267-44-268-44-269-44-270-44-271-44-272-44-273-44-274-44-275-44-276-44-277-44-278-44-279-44-280-44-281-44-282-44-283-44-284-44-285-44-286-44-287-44-288-44-289-44-290-44-291-44-292-44-293-44-294-44-295-44-296-44-297-44-298-44-299-44-300-44-301-44-302-44-303-44-304-44-305-44-306-44-307-44-308-44-309-44-310-44-311-44-312-44-313-44-314-44-315-44-316-44-317-44-318-44-319-44-320-44-321-44-322-44-323-44-324-44-325-44-326-44-327-44-328-44-329-44-330-44-331-44-332-44-333-44-334-44-335-44-336-44-337-44-338-44-339-44-340-44-341-44-342-44-343-44-344-44-345-44-346-44-347-44-348-44-349-44-350-44-351-44-352-44-353-44-354-44-355-44-356-44-357-44-358-44-359-44-360-44-361-44-362-44-363-44-364-44-365-44-366-44-367-44-368-44-369-44-370-44-371-44-372-44-373-44-374-44-375-44-376-44-377-44-378-44-379-44-380-44-381-44-382-44-383-44-384-44-385-44-386-44-387-44-388-44-389-44-390-44-391-44-392-44-393-44-394-44-395-44-396-44-397-44-398-44-399-44-400-44-401-44-402-44-403-44-404-44-405-44-406-44-407-44-408-44-409-44-410-44-411-44-412-44-413-44-414-44-415-44-416-44-417-44-418-44-419-44-420-44-421-44-422-44-423-44-424-44-425-44-426-44-427-44-428-44-429-44-430-44-431-44-432-44-433-44-434-44-435-44-436-44-437-44-438-44-439-44-440-44-441-44-442-44-443-44-444-44-445-44-446-44-447-44-448-44-449-44-450-44-451-44-452-44-453-44-454-44-455-44-456-44-457-44-458-44-459-44-460-44-461-44-462-44-463-44-464-44-465-44-466-44-467-44-468-44-469-44-470-44-471-44-472-44-473-44-474-44-475-44-476-44-477-44-478-44-479-44-480-44-481-44-482-44-483-44-484-44-485-44-486-44-487-44-488-44-489-44-490-44-491-44-492-44-493-44-494-44-495-44-496-44-497-44-498-44-499-44-500-44-501-44-502-44-503-44-504-44-505-44-506-44-507-44-508-44-509-44-510-44-511-44-512-44-513-44-514-44-515-44-516-44-517-44-518-44-519-44-520-44-521-44-522-44-523-44-524-44-525-44-526-44-527-44-528-44-529-44-530-44-531-44-532-44-533-44-534-44-535-44-536-44-537-44-538-44-539-44-540-44-541-44-542-44-543-44-544-44-545-44-546-44-547-44-548-44-549-44-550-44-551-44-552-44-553-44-554-44-555-44-556-44-557-44-558-44-559-44-560-44-561-44-562-44-563-44-564-44-565-44-566-44-567-44-568-44-569-44-570-44-571-44-572-44-573-44-574-44-575-44-576-44-577-44-578-44-579-44-580-44-581-44-582-44-583-44-584-44-585-44-586-44-587-44-588-44-589-44-590-44-591-44-592-44-593-44-594-44-595-44-596-44-597-44-598-44-599-44-600-44-601-44-602-44-603-44-604-44-605-44-606-44-607-44-608-44-609-44-610-44-611-44-612-44-613-44-614-44-615-44-616-44-617-44-618-44-619-44-620-44-621-44-622-44-623-44-624-44-625-44-626-44-627-44-628-44-629-44-630-44-631-44-632-44-633-44-634-44-635-44-636-44-637-44-638-44-639-44-640-44-641-44-642-44-643-44-644-44-645-44-646-44-647-44-648-44-649-44-650-44-651-44-652-44-653-44-654-44-655-44-656-44-657-44-658-44-659-44-660-44-661-44-662-44-663-44-664-44-665-44-666-44-667-44-668-44-669-44-670-44-671-44-672-44-673-44-674-44-675-44-676-44-677-44-678-44-679-44-680-44-681-44-682-44-683-44-684-44-685-44-686-44-687-44-688-44-689-44-690-44-691-44-692-44-693-44-694-44-695-44-696-44-697-44-698-44-699-44-700-44-701-44-702-44-703-44-704-44-705-44-706-44-707-44-708-44-709-44-710-44-711-44-712-44-713-44-714-44-715-44-716-44-717-44-718-44-719-44-720-44-721-44-722-44-723-44-724-44-725-44-726-44-727-44-728-44-729-44-730-44-731-44-732-44-733-44-734-44-735-44-736-44-737-44-738-44-739-44-740-44-741-44-742-44-743-44-744-44-745-44-746-44-747-44-748-44-749-44-750-44-751-44-752-44-753-44-754-44-755-44-756-44-757-44-758-44-759-44-760-44-761-44-762-44-763-44-764-44-765-44-766-44-767-44-768-44-769-44-770-44-771-44-772-44-773-44-774-44-775-44-776-44-777-44-778-44-779-44-780-44-781-44-782-44-783-44-784-44-785-44-786-44-787-44-788-44-789-44-790-44-791-44-792-44-793-44-794-44-795-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446-44-1447-44-1448-44-1449-44-1450-44-145



NOTE: ALL NEW UNDERGROUND CONDUITS SHALL BE SCHEDULE 40.

NOTES - ADDED BY ARCHITECT OCTOBER 12, 1989  
 1. REFER TO THE SITE PLAN ON THE TITLE SHEET FOR THE APPROXIMATE LOCATION OF EXISTING UTILITIES AND THE PROPOSED UNDERGROUND ELECTRICAL SERVICE AND DRAINAGE ITEMS.  
 2. ON DRAWINGS 41-42, 51-52 AND 53-54 THE F99 ROOM IS NOT DRAWN TO SCALE. REFER TO DRAWINGS 41-42 FOR THE CORRECT F99 ROOM SIZE.  
 3. ALTERNATE # 1, RAISED ROOF, SHALL INCLUDE ALL LABOR, MATERIALS AND ASSOCIATED COSTS WITH THE REMOVAL, RELOCATION AND RE-INSTALLATION OF EXISTING MECHANICAL AND ELECTRICAL EQUIPMENT.

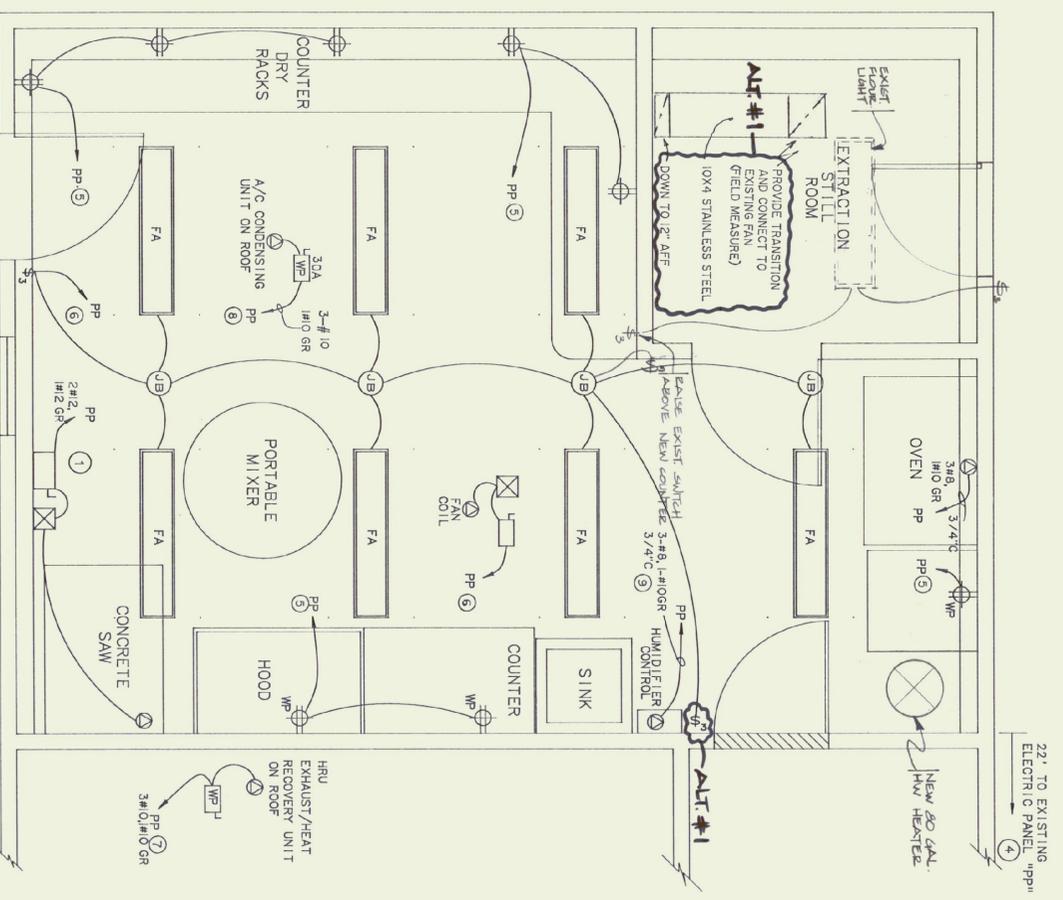
- NOTES: (UNGS E-1 & E-2)
- REMOVE EXIST UNDERGROUND ELECTRIC SERVICE CONDUIT WITH WIRING EXCEPT TO SOURCE.
  - REMOVE EXIST LIGHT SWITCH, RECEPTACLE AND WIRING CONDUIT FROM TO SOURCE.
  - REMOVE EXIST PANEL CONDUIT. EXIST CIRCUITS TO BE REMOVED TO NEW PANEL AT.
  - REMOVE TELEPHONE & CABLE TO NEW BREAK LOCATION.
  - RELOCATE EXISTING TELEPHONE TERMINAL CABINET AS INDICATED BY OWNER.
  - EXISTING FIT LIGHT SWITCH TO REMAIN.
  - EXISTING RECEPTACLES AND WIRING TO BE REMOVED EXCEPT TO SOURCE.
  - EXISTING LIGHTING FIXTURES TO BE REMOVED CONDUIT WITH WIRING BACK TO SOURCE.
  - EXIST LIGHTING FIXTURE, SWITCHES & RECEPTACLES TO BE REMOVED CONDUIT WITH WIRING BACK TO SOURCE.
  - EXISTING RECEPTACLES TO BE REMOVED CONDUIT WITH WIRING BACK TO SOURCE.
  - RECONNECT EXIST POWER FROM HV-1 UNIT AND REWIRE CONDUIT AT NEW LOCATION.
  - RECONNECT EXIST POWER FROM LEADS AND REWIRE CONDUIT AT NEW LOCATION.
  - EXIST PANELS TO REMAIN AS IS EXCEPT WHERE NOTED OTHERWISE FOR NEW CIRCUIT BREAKER.
  - EXISTING UNIT HEATER TO REMAIN.



STRUCTURAL & AGGREGATE LAB  
 FLOOR PLAN  
 1/4"=1'-0"  
 NOTE: EQUIPMENT LAYOUT SHOWN ON DRAWING L1, FINAL REARRANGEMENT/LOCATION TO BE DONE ON SITE.

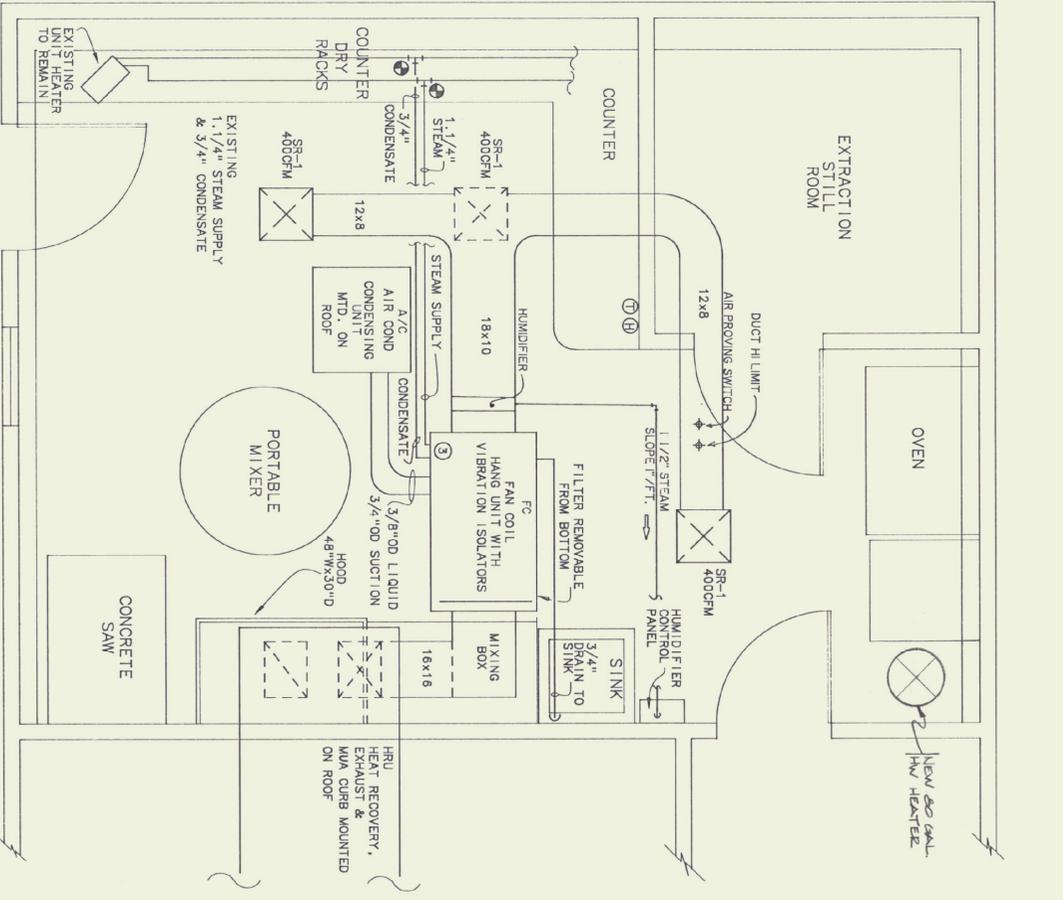
PANEL A1 EXIST UNDER THE ROOF (24000) BASEMENT HUB.															
12/20/89 V.C. WITH F.V. 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000.										NO.	BRANCH CIRCUIT	PHASE	CONN. LOAD	EQUIPMENT	WIRING
1-4	1	20	1	2.6	LIGHTING	1/2" EMT									
5-8	1	20	1	1.3	RECEPTACLES	"									
9-12	1	20	1	.3	SWITCHES	"									
13-16	1	20	1	.3	W-T	"									
17-20	1	20	1	.3	BALANCE	"									
21-24	1	20	1	.4	RECEPTACLES	"									
25-28	1	20	1	.4	RECEPTACLES	"									
29-32	1	20	1	.3	SWITCH	"									
33-36	1	20	1	.3	SWITCH	"									
37-40	1	20	1	.3	SWITCH	"									
41-44	1	20	1	.3	SWITCH	"									
45-48	1	20	1	.3	SWITCH	"									
49-52	1	20	1	.3	SWITCH	"									
53-56	1	20	1	.3	SWITCH	"									
57-60	1	20	1	.3	SWITCH	"									
61-64	1	20	1	.3	SWITCH	"									
65-68	1	20	1	.3	SWITCH	"									
69-72	1	20	1	.3	SWITCH	"									
73-76	1	20	1	.3	SWITCH	"									
77-80	1	20	1	.3	SWITCH	"									
81-84	1	20	1	.3	SWITCH	"									
85-88	1	20	1	.3	SWITCH	"									
89-92	1	20	1	.3	SWITCH	"									
93-96	1	20	1	.3	SWITCH	"									
97-100	1	20	1	.3	SWITCH	"									
101-104	1	20	1	.3	SWITCH	"									
105-108	1	20	1	.3	SWITCH	"									
109-112	1	20	1	.3	SWITCH	"									
113-116	1	20	1	.3	SWITCH	"									
117-120	1	20	1	.3	SWITCH	"									
121-124	1	20	1	.3	SWITCH	"									
125-128	1	20	1	.3	SWITCH	"									
129-132	1	20	1	.3	SWITCH	"									
133-136	1	20	1	.3	SWITCH	"									
137-140	1	20	1	.3	SWITCH	"									
141-144	1	20	1	.3	SWITCH	"									
145-148	1	20	1	.3	SWITCH	"									
149-152	1	20	1	.3	SWITCH	"									
153-156	1	20	1	.3	SWITCH	"									
157-160	1	20	1	.3	SWITCH	"									
161-164	1	20	1	.3	SWITCH	"									
165-168	1	20	1	.3	SWITCH	"									
169-172	1	20	1	.3	SWITCH	"									
173-176	1	20	1	.3	SWITCH	"									
177-180	1	20	1	.3	SWITCH	"									
181-184	1	20	1	.3	SWITCH	"									
185-188	1	20	1	.3	SWITCH	"									
189-192	1	20	1	.3	SWITCH	"									
193-196	1	20	1	.3	SWITCH	"									
197-200	1	20	1	.3	SWITCH	"									
201-204	1	20	1	.3	SWITCH	"									
205-208	1	20	1	.3	SWITCH	"									
209-212	1	20	1	.3	SWITCH	"									
213-216	1	20	1	.3	SWITCH	"									
217-220	1	20	1	.3	SWITCH	"									
221-224	1	20	1	.3	SWITCH	"									
225-228	1	20	1	.3	SWITCH	"									
229-232	1	20	1	.3	SWITCH	"									
233-236	1	20	1	.3	SWITCH	"									
237-240	1	20	1	.3	SWITCH	"									
241-244	1	20	1	.3	SWITCH	"									
245-248	1	20	1	.3	SWITCH	"									
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253-256	1	20	1	.3	SWITCH	"									
257-260	1	20	1	.3	SWITCH	"									
261-264	1	20	1	.3	SWITCH	"									
265-268	1	20	1	.3	SWITCH	"									
269-272	1	20	1	.3	SWITCH	"									
273-276	1	20	1	.3	SWITCH	"									
277-280	1	20	1	.3	SWITCH	"									
281-284	1	20	1	.3	SWITCH	"									
285-288	1	20	1	.3	SWITCH	"									
289-292	1	20	1	.3	SWITCH	"									
293-296	1	20	1	.3	SWITCH	"									
297-300	1	20	1	.3	SWITCH	"									
301-304	1	20	1	.3	SWITCH	"									
305-308	1	20	1	.3	SWITCH	"									
309-312	1	20	1	.3	SWITCH	"									
313-316	1	20	1	.3	SWITCH	"									
317-320	1	20	1	.3	SWITCH	"									
321-324	1	20	1	.3	SWITCH	"									
325-328	1	20	1	.3	SWITCH	"									
329-332	1	20	1	.3	SWITCH	"									
333-336	1	20	1	.3	SWITCH	"									
337-340	1	20	1	.3	SWITCH	"									
341-344	1	20	1	.3	SWITCH	"									
345-348	1	20	1	.3	SWITCH	"									
349-352	1	20	1	.3	SWITCH	"									
353-356	1	20	1	.3	SWITCH	"									
357-360	1	20	1	.3	SWITCH	"									
361-364	1	20	1	.3	SWITCH	"									
365-368	1	20	1	.3	SWITCH	"									
369-372	1	20	1	.3	SWITCH	"									
373-376	1	20	1	.3	SWITCH	"									
377-380	1	20	1	.3	SWITCH	"									
381-384	1	20	1	.3	SWITCH	"									
385-388	1	20	1	.3	SWITCH	"									
389-392	1	20	1	.3	SWITCH	"									
393-396	1	20	1	.3	SWITCH	"									
397-400	1	20	1	.3	SWITCH	"									
401-404	1	20	1	.3	SWITCH	"									
405-408	1	20	1	.3	SWITCH	"									





**ELECTRICAL PLAN**  
SCALE - 1/2"=1'-0"

- ELECTRICAL LEGEND**
- 3-WAY SWITCH
  - SPECIAL PURPOSE OUTLET
  - DUPLEX RECEPTACLE - 45" AFF
  - SAFETY SWITCH
  - STARTER
  - FLUORESCENT LIGHT
  - ABOVE FINISH FLOOR
  - WATER PROOF



**MECHANICAL PLAN**  
SCALE - 1/2"=1'-0"

- MECHANICAL LEGEND**
- HUMIDISTAT
  - THERMOSTAT
  - CONNECT TO EXISTING
  - PIPE DOWN
  - PIPE UP
  - SUPPLY AIR
  - RETURN AIR

**ALTERNATE #1**

- 1) PROVIDE DUCT WORK IN EXTRACTION STILL ROOM AS SHOWN.
- 2) DELETE ALL ELECTRICAL WORK IN STRUCTURAL TESTING LAB AND NEW 3-WAY SWITCH FOR EXISTING CIRCUIT IN EXTRACTION STILL ROOM AND 5-WAY SWITCH TO NEW DOOR LOCATION.

**MECHANICAL GENERAL NOTES**

1. EXISTING STANDING SEAM ROOF IS STILL IN WARRANTY PERIOD. ALL ROOF PENETRATIONS AND WEATHERPROOFING OF ROOF TO BE CO-ORDINATED WITH BURRELL CO. INC.

**ELECTRICAL GENERAL NOTES**

1. REMOVE 3-LIGHT FIXTURES, CONDUIT, WIRE, SWITCH BOXES, ETC. LIGHT FIXTURE TO REMAIN PROPERTY OF OWNER. REMOVE/REPLACE ALL EXISTING CONDUIT FITTINGS AND BOXES NOT OF WATER TIGHT CONSTRUCTION.
2. ALL ELECTRIC TO BE MINIMUM 18" AFF. ALL ELECTRIC TO BE OF WATER TIGHT CONSTRUCTION.
3. NOTE THAT EXISTING EXTRACTION STILL ROOM IS A CLASS 1 DIVISION 1 LOCATION. (REFER TO NEC ARTICLE 500).

**KEYED NOTES**

- ① EXISTING CONCRETE SAW WITH SAFETY SWITCH AND STARTER PRESENTLY LOCATED IN ADJOINING ROOM TO BE REMOVED AND RELOCATED. EXTEND EXISTING BRANCH CIRCUIT.
- ② LEAVE EXISTING WHITE HEATER & PROVIDE BACKSCAPED WHITE MODEL M-II-20 R50S OR EQUAL.
- ③ REFER TO STEAM COIL PIPING DIAGRAM.
- ④ EXISTING POWER PANEL - SIEMENS 208/120 VOLT, 3 PHASE, 225 AMP, TYPE CDP-7. PROVIDE TYPE BL CIRCUIT BREAKERS.
- ⑤ PROVIDE 20 AMP, 1 POLE, 60 CIRCUIT BREAKER.
- ⑥ CONNECT TO EXISTING, SPARE, 20 AMP, 1 POLE CIRCUIT BREAKER.
- ⑦ PROVIDE 1 POLE, 30 AMP CIRCUIT BREAKER.
- ⑧ PROVIDE 3 POLE, 25 AMP HACR CIRCUIT BREAKER.
- ⑨ PROVIDE 3 POLE, 40 AMP CIRCUIT BREAKER.
- ⑩ ELECTRICAL CONTRACTOR TO PROVIDE 20 AMP, 2 POLE SAFETY SWITCH, 1/2" CONDUIT, 2-#10 AND 1-#12 GROUND TO PANEL FROM PROVIDE 20 AMP, 2 POLE CIRCUIT BREAKER IN PANEL FROM WHITE HEATER.

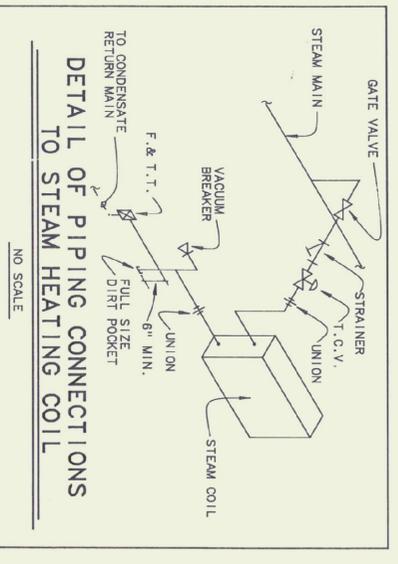
**LIGHTING FIXTURE SCHEDULE**

TYPE	DESCRIPTION
FA	KEystone LU240-DMR, DUST AND MOISTURE RESISTANT, 120 VAC, ELECTRONIC BALLAST, 2 LAMP, 32 WATT, TB, 3,500 K, MOUNT 9' AFF.

**SPECIAL PURPOSE OUTLET**

ITEM	VOLTS	PHASE	AMPACITY	CIRCUIT BREAKER	REMARKS
OVEN	208	1	50	2P/50	RECEPTACLE CORD AND CAP BY EC
HUMIDIFIER	208	3	28	3P/40	
A/C	208	3	20.2	3P/25 HACR	25 AMP, FRN FUSES
HRU	120	1	22	1P/20	EXISTING
SAW	208	1	20	EXISTING	
FAN COIL	120	1	12	1P/20	

NOTE: VERIFY ALL EQUIPMENT NAME PLATE RATINGS BEFORE INSTALLATION.



**Pearson & Associates**  
MECHANICAL & ELECTRICAL ENGINEERS

P.O. BOX 610 STOWE, VERMONT 05672  
(802) 253-9607

STATE OF VERMONT  
DEPARTMENT OF STATE BUILDINGS  
AGENCY OF ADMINISTRATION

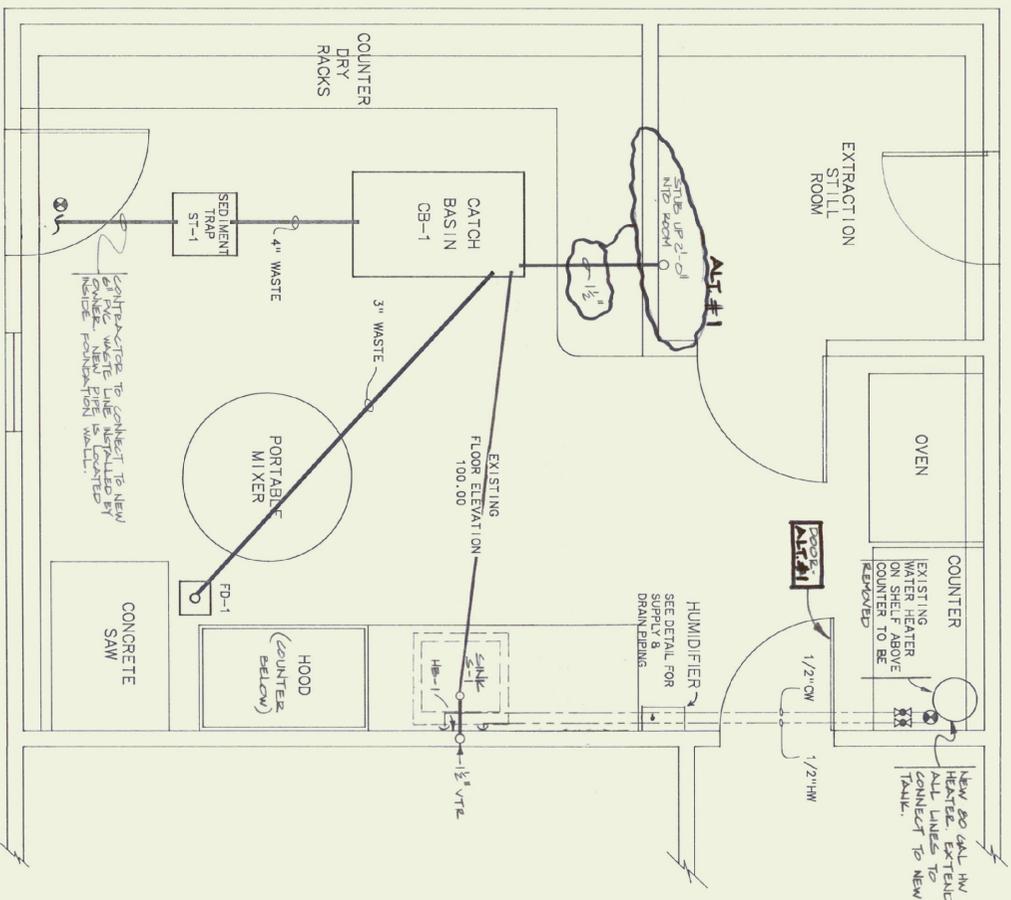
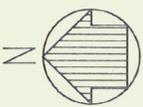
VERMONT

AGENCY OF TRANSPORTATION  
CONCRETE TEST LABORATORY  
BARRE-MONTPELLIER ROAD  
BERLIN, VERMONT

**ELECTRICAL & MECHANICAL PLANS**

DATE: 06/09/92  
DRAWN BY: B.W.M.  
SCALE: 1/2"=1'-0"  
REVISIONS: CAD FILE: P-OTL-D1  
SHEET: 5 OF 5

DWG NO. ME-1

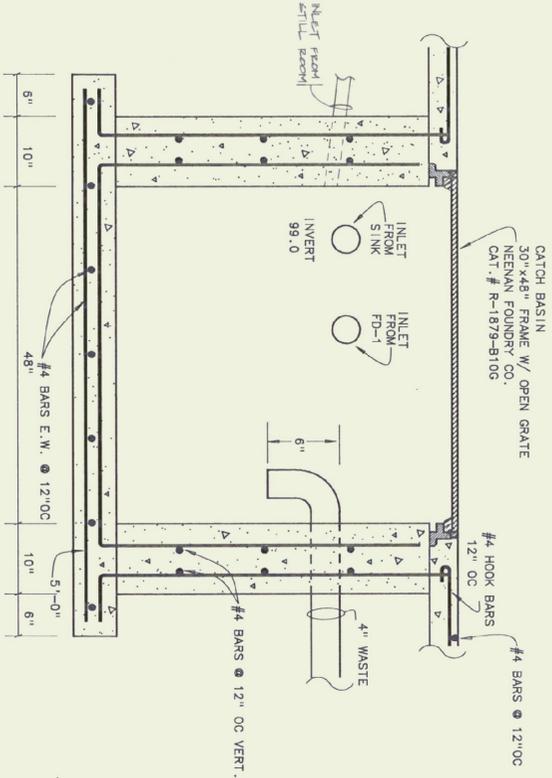


PLUMBING PLAN  
SCALE - 1/2"=1'-0"

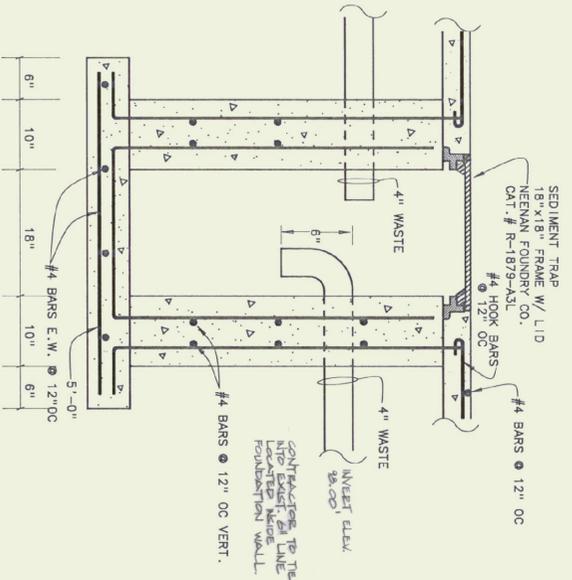
PLUMBING SCHEDULE

- ⊗ BALL VALVE
- ⊙ CONNECT TO EXISTING
- ⌒ PIPE DOWN
- PIPE UP
- COLD WATER
- - - HOT WATER
- WASTE
- - - VENT

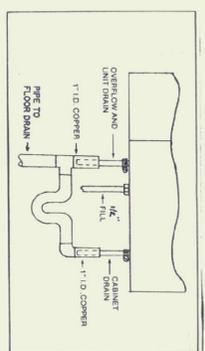
ALTERNATE #1  
1) Provide 1 1/2" WASTE PIPE TO EXTRACTION STILL ROOM.



CATCH BASIN  
SCALE - 1"=1'-0"



SEDIMENT TRAP  
SCALE - 1"=1'-0"



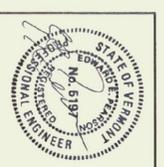
HUMIDIFIER WATER SUPPLY & DRAIN  
NO SCALE

MECHANICAL EQUIPMENT SCHEDULE

ITEM	DESCRIPTION
AC	AIR CONDITION CONDENSING UNIT, MCOQUY MODEL AD038H, 208 VOLT, 3 PHASE, R-422 REFRIG., 3700 NOM. COOLING WATTS, @ 95 DEGREES F OA, 80 DEGREES F DB, 67 DEGREES F WB
FC	FAN COIL, MCOQUY MODEL SC8 121 B, BELT DRIVE, 1/2 HP @ 120 VAC, 1200 CFM, HO-CAPACITY DX COIL, 40,000 BTU TOTAL @ 80 DEGREES F DB/67 DEGREES F WB, 48 DEGREES F SUCTION TEMP., 1 ROW HEATING COIL, 58,000 BTU TOTAL HEATING @ 2 PSIG STEAM, 60 DEGREES F EXT.
HUMIDIFIER	ELECTRONIC STEAM HUMIDIFIER, 30 LBS/HR., HERRMIDFIER MODEL WHST-30, 208 VOLT, 3 PHASE, EST. 11/18 DUCT DISTRIBUTION MANIFOLD, STEAM SUPPLY HOSE, HUMIDISTAT, DUCT HI LIMIT, DUCT AIR PROVING SWITCH.
HRU	HEAT RECOVERY, EXHAUST AND MAKE UP AIR UNIT, EXHAUST 1,080 CFM @ 25 ESP, SUPPLY 1,200 CFM @ 2 ESP (2) 1/2 HP, 115 VAC, HEAT EX SERIES 200 B-1, WEATHER-PROOF CASING FOR OUTDOOR INSTALLATION (INCLUDES INTAKE AND EXHAUST HOODS WITH BRD SCREENS AND WEATHER-PROOF ROOF PANELS WITH RAIN GUTTERS), BOTTOM SUPPLY AND/OR RETURN DUCT CONNECTIONS, 12" INSULATED ROOF CURBS WITH INTEGRAL CANT FACE AND BYPASS FROST CONTROL SYSTEM, ALUMINUM INTERIOR WALLS.
HOOD	EXHAUST HOOD, 304 STAINLESS STEEL, 48" WIDE X 30" DEEP X 18" HIGH, 16" X18" OUTLET, UNITE MCGILL OR EQUAL, FIELD MEASURE OUTLET LOCATION AND TRANSITION TO AVOID INTERFERENCE WITH EXISTING DUCT.
SR-1	SUPPLY REGISTER, METAL, AIRE SERIES 5 000, MODEL M-1, S4, 12" X 12" W/OBD, ALUMINUM W/WHITE FINISH, EXPOSED INSTALLATION 10'-0" ABOVE FLOOR TO FACE.

PLUMBING FIXTURE SCHEDULE

ITEM	DESCRIPTION
S-1	AMERICAN STANDARD ENAMELED CAST IRON SERVICE SINK, CAT# 7892 U49 WITH 47076-07 RIM GUARD AND WALL HANGER, CAT# 8940 242 ON FIXTURE, TRAP CAT# 7798, 178 WITH STRAINER.
HB-1	RELOCATE EXISTING HOSE BBR CONTROL ASSEMBLY TO ABOVE SINK.
FD-1	FLOOR DRAIN, NEENA FOUNDRY, 9" X 9", R.4931-8



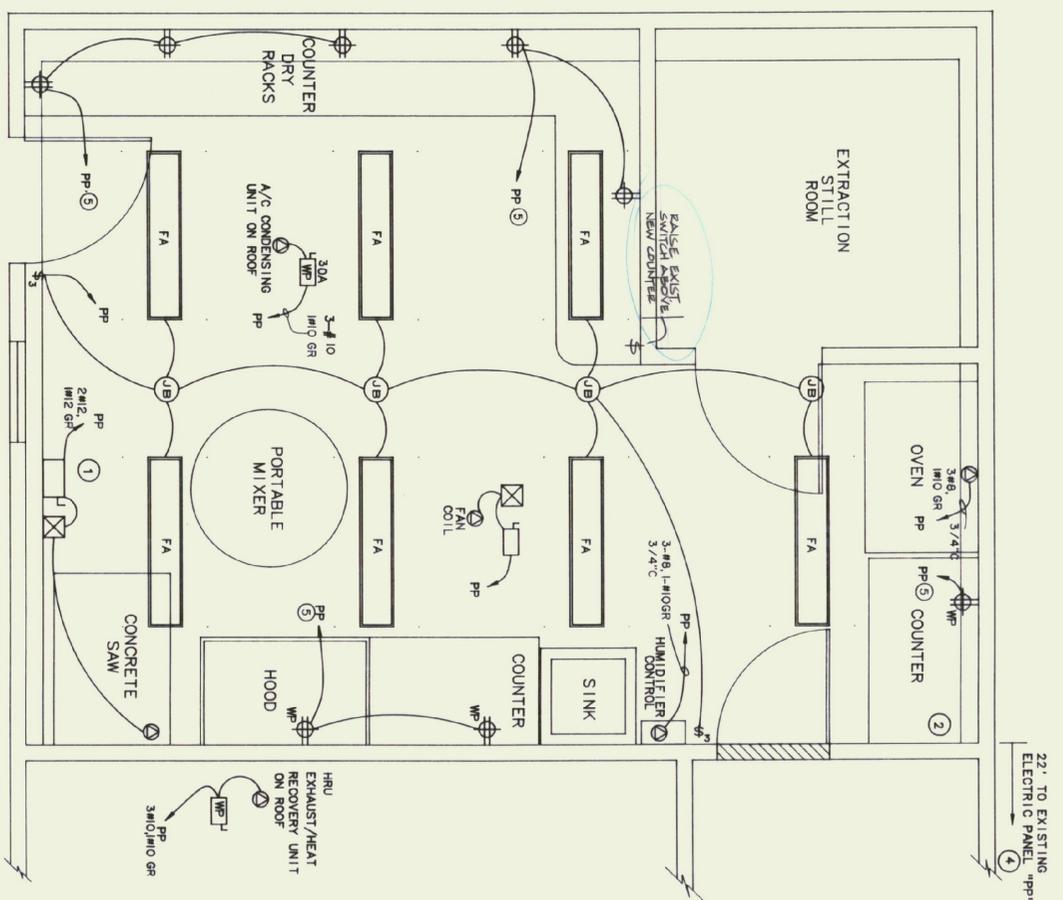
**Pearson & Associates**  
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STATE OF VERMONT  
DEPARTMENT OF STATE BUILDINGS  
AGENCY OF ADMINISTRATION  
MONTPELIER VERMONT

AGENCY OF TRANSPORTATION  
CONCRETE TEST LABORATORY  
BARRE-MONTPELIER ROAD  
BERLIN, VERMONT

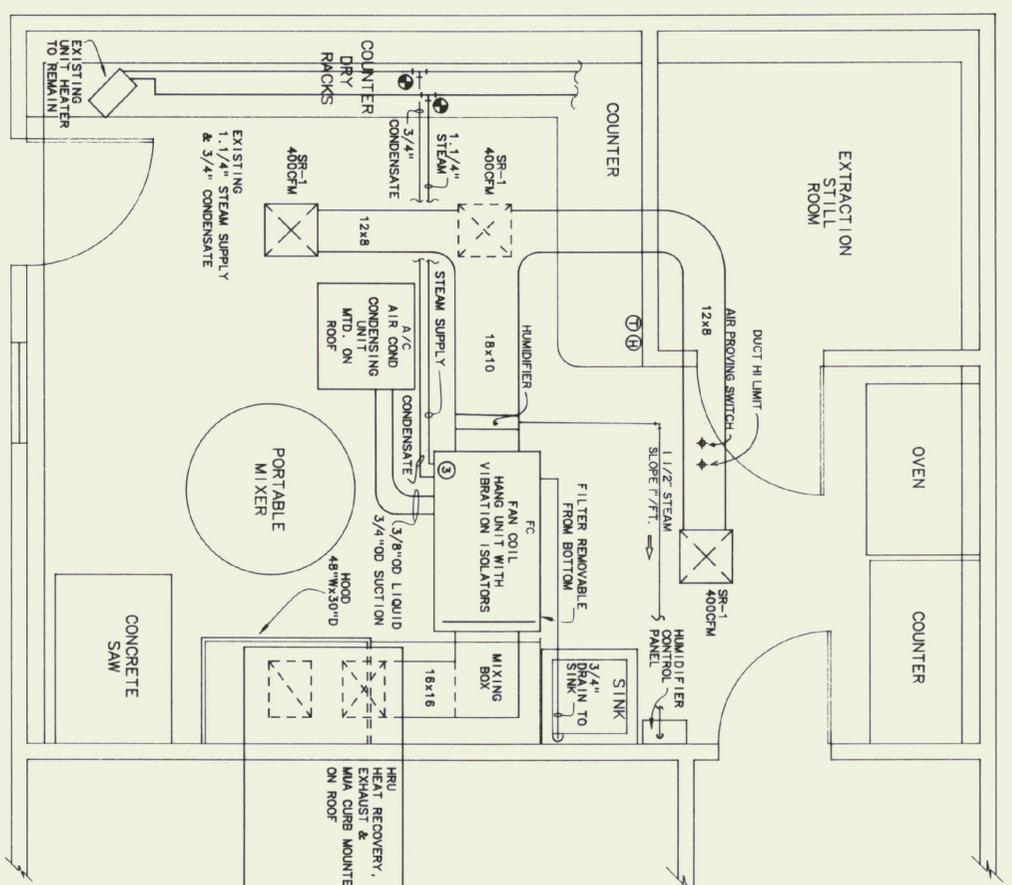
PLUMBING PLAN & SCHEDULES

DATE: 06/09/92  
SCALE: 1/2"=1'-0"  
DRAWN BY: B.W.M.  
REVISIONS: CAD FILE: P-CTL-02  
APPROVED BY: [Signature]  
SHEET: 2 of 3  
DWG NO.: P-1



**ELECTRICAL PLAN**  
SCALE - 1/2"=1'-0"

- ELECTRICAL LEGEND**
- ⊕ 3-WAY SWITCH
  - ⊙ SPECIAL PURPOSE OUTLET
  - ⊕ DUPLEX RECEPTACLE - 4<sup>1</sup>/<sub>2</sub> AFF
  - ⊕ SAFETY SWITCH
  - STARTER
  - ▭ FLUORESCENT LIGHT
  - AFF ABOVE FINISH FLOOR
  - WP WATER PROOF



**MECHANICAL PLAN**  
SCALE - 1/2"=1'-0"

- MECHANICAL LEGEND**
- ⊕ HUMIDISTAT
  - ⊙ THERMOSTAT
  - ⊕ PIPE DOWN
  - PIPE UP
  - ▭ SUPPLY AIR
  - ▭ RETURN AIR

- KEYED NOTES**
- ① EXISTING CONCRETE SAW WITH SAFETY SWITCH AND STARTER PRESENTLY LOCATED IN ADJOINING ROOM TO BE REMOVED AND RELOCATED. EXTEND EXISTING BRANCH CIRCUIT.
  - ② EXISTING DOMESTIC WATER HEATER TO REMAIN.
  - ③ REFER TO STEAM COIL PIPING DIAGRAM.
  - ④ EXISTING POWER PANEL - SIEMENS, 208/120 VOLTS, 3 PHASE, 225 AMP, TYPE CDP-1. PROVIDE TYPE BL CIRCUIT BREAKERS.
  - ⑤ PROVIDE 20 AMP, 1 POLE, GFI CIRCUIT BREAKER.

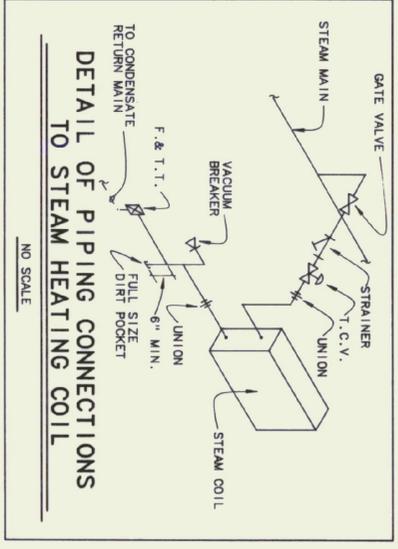
**LIGHTING FIXTURE SCHEDULE**

TYPE	DESCRIPTION
FA	KEVSTONE LU240-DNR, DUST AND MOISTURE RESISTANT, 120 VAC, ELECTRONIC BALLAST, 2 LAMP, 32 WATT, 18, 3.500 K, MOUNT 9' AFF.

**SPECIAL PURPOSE OUTLET**

ITEM	VOLTS	PHASE	AMPCACITY	CIRCUIT BREAKER	REMARKS
OVEN	208	1	50	2P50	RECEPTACLE CORD AND CAP BY EC
HUMIDIFIER	208	3	28	3P40	
A/C	208	3	20.2	3P25 HACR	75 AMP, FRN FUSES
HRU	120	1	22	1P30	
SAW	208	1	20	EXISTING	
FAN COIL	120	1	12	1P20	

NOTE: VERIFY ALL EQUIPMENT NAME PLATE RATINGS BEFORE INSTALLATION.



- ELECTRICAL GENERAL NOTES**
1. REMOVE 3 LIGHT FIXTURES, CONDUIT, WIRE, SWITCH, BOXES, ETC. LIGHT FIXTURE TO REMAIN PROPERTY OF OWNER. REMOVE/REPLACE ALL EXISTING CONDUIT FITTINGS AND BOXES NOT OF WATER TIGHT CONSTRUCTION.
  2. ALL ELECTRIC TO BE MINIMUM 18" AFF. ALL ELECTRIC TO BE OF WATER TIGHT CONSTRUCTION.
  3. NOTE THAT EXISTING EXTRACTION STILL ROOM IS A CLASS 1, DIVISION 1 LOCATION. (REFER TO NEC ARTICLE 500).
- MECHANICAL GENERAL NOTES**
1. EXISTING STANDING SEAM ROOF IS STILL IN WARRANTY PERIOD. ALL ROOF PENETRATIONS AND WEATHERPROOFING OF ROOF TO BE CO-ORDINATED WITH BURRELL CO. INC.

**Pearson & Associates**  
MECHANICAL & ELECTRICAL ENGINEERS  
P.O. BOX 610 STOWE, VERMONT 05672  
(802) 253-9607

STATE OF VERMONT  
DEPARTMENT OF STATE BUILDINGS  
AGENCY OF ADMINISTRATION  
VERMONT

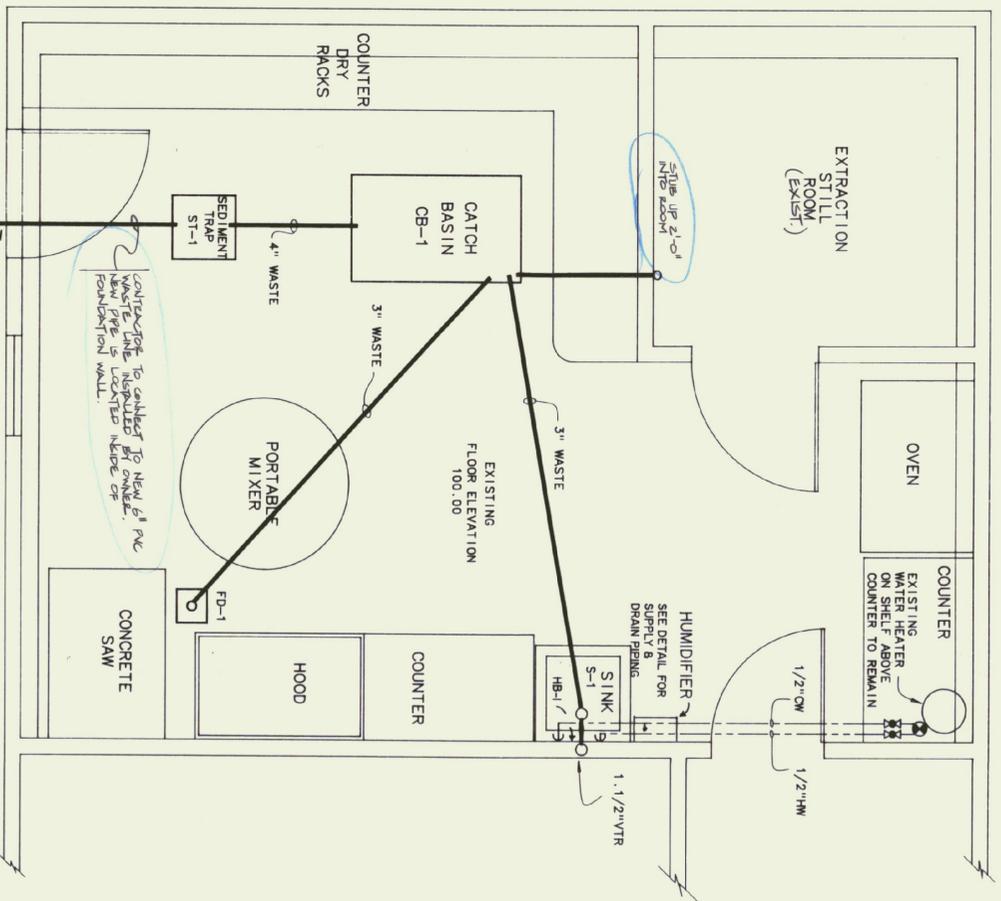
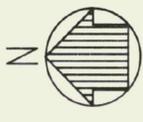
AGENCY OF TRANSPORTATION  
CONCRETE TEST LABORATORY  
BARRÉ-MONTPELIER ROAD  
BERLIN, VERMONT

**ELECTRICAL & MECHANICAL PLANS**

DATE: 06/09/92  
SCALE: 1/2"=1'-0"  
DRAWN BY: B.W.M.  
APPROVED BY:

REVISIONS: CAD FILE: P-CTL-01  
07/14/92 JLA

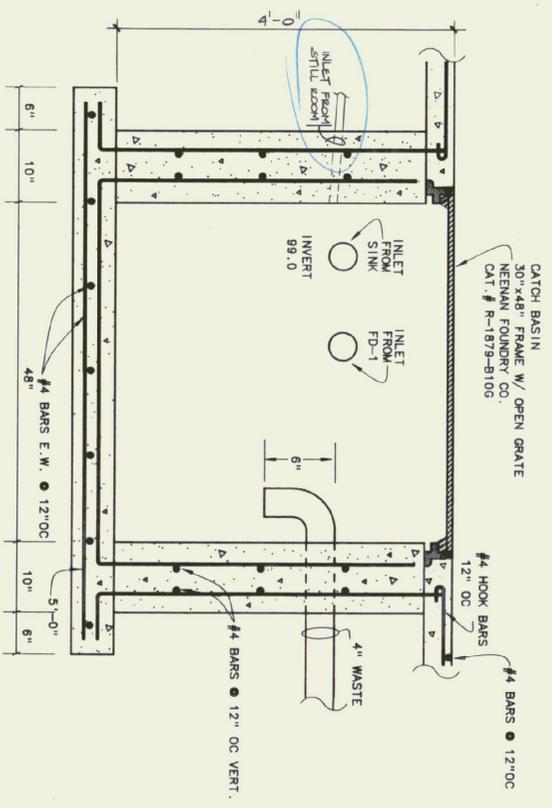
SHEET: 5 OF 5  
DWG NO.: ME-1



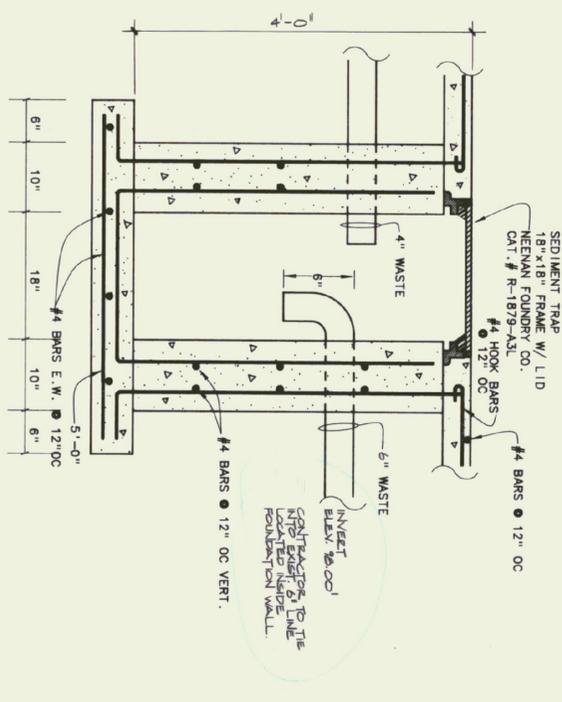
**PLUMBING PLAN**  
SCALE - 1/2"=1'-0"  
NEWLY REPAIRED LINE  
NEW SEWER MANHOLE

**PLUMBING SCHEDULE**

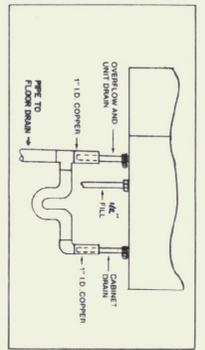
- ⊗ BALL VALVE
- ⊕ CONNECT TO EXISTING
- ⌒ PIPE DOWN
- PIPE UP
- COLD WATER
- - - - - HOT WATER
- ⋯ WASTE
- ⋯ VENT



**CATCH BASIN**  
SCALE - 1"=1'-0"



**SEDIMENT TRAP**  
SCALE - 1"=1'-0"



**HUMIDIFIER WATER SUPPLY & DRAIN**  
NO SCALE

MECHANICAL EQUIPMENT SCHEDULE	
ITEM	DESCRIPTION
AC	AIR CONDITION CONDENSING UNIT, MCCOLLY MODEL AD039H, 208 VOLT, 3 PHASE R-22 REFRIG., 3700 NOML. COOLING WATTS, @ 95 DEGREES F OA, 80 DEGREES F DB, 67 DEGREES F WB
FC	FAN COIL, MCCOLLY MODEL, SC8 121 B. BELT DRIVE, 1/2 HP @ 120 VAC, 1200 CFM, HO-CAPACITY DX COIL, 40,000 BTU TOTAL, @ 80 DEGREES F DB/67 DEGREES F WB, 45 DEGREES F SUCTION TEMP., 1 ROW HEATING COIL, 56,000 BTU TOTAL HEATING @ 2 PSIG STEAM, 80 DEGREES F EAT.
HRU	ELECTRONIC STEAM HUMIDIFIER, 30 LBS/HR., HERMIDRIFER MODEL MIST-30, 208 VOLT, 3 PHASE EST-11118 DUCT DISTRIBUTION MANIFOLD, STEAM SUPPLY HOSE, HUMIDISTAT, DUCT HI LIMIT, DUCT AIR PROVING SWITCH
HRU	HEAT RECOVERY EXHAUST AND MAKE-UP AIR UNIT, EXHAUST 1,000 CFM @ 25 ESP, SUPPLY 1,200 CFM @ 2 ESP, (2) 1/2 HP, 115 VAC, HEAT EXCHANGER 200 B-1, WEATHER-PROOF CASING FOR OUTDOOR INSTALLATION (INCLUDES INTAKE AND EXHAUST HOODS WITH BIRD SCREENS AND WEATHER-PROOF ROOF PANELS WITH RAIN GUTTERS), BOTTOM SLIPPLY AND/OR RETURN DUCT CONNECTIONS, 12\"/>
HOOD	EXHAUST HOOD, 304 STAINLESS STEEL, 48\"/>
SR-1	SUPPLY REGISTER, METAL ARE SERIES 5,000, MODEL MA1, SA, 12\"/>

PLUMBING FIXTURE SCHEDULE	
ITEM	DESCRIPTION
S-1	AMERICAN STANDARD ENAMELED CAST IRON SERVICE SINK, CAT# 7892, Q48 WITH 4/076-07 RIM GUARD AND WALL HANGER, CAT# 8340, 242 ON FIXTURE, TRAP CAT# 7798, 178 WITH STRAINER.
HB-1	RELOCATE EXISTING HOSE BIB CONTROL ASSEMBLY TO ABOVE SINK.
FD-1	FLOOR DRAIN, NEEENA FOUNDRY, 9\"/>

  
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 DEPARTMENT OF STATE BUILDINGS  
 AGENCY OF ADMINISTRATION  
**MONTPELLIER**  
 VERMONT  
 AGENCY OF TRANSPORTATION  
 CONCRETE TEST LABORATORY  
 BARRÉ-MONTPELLIER ROAD  
 BERLIN, VERMONT  
**PLUMBING PLAN & SCHEDULES**

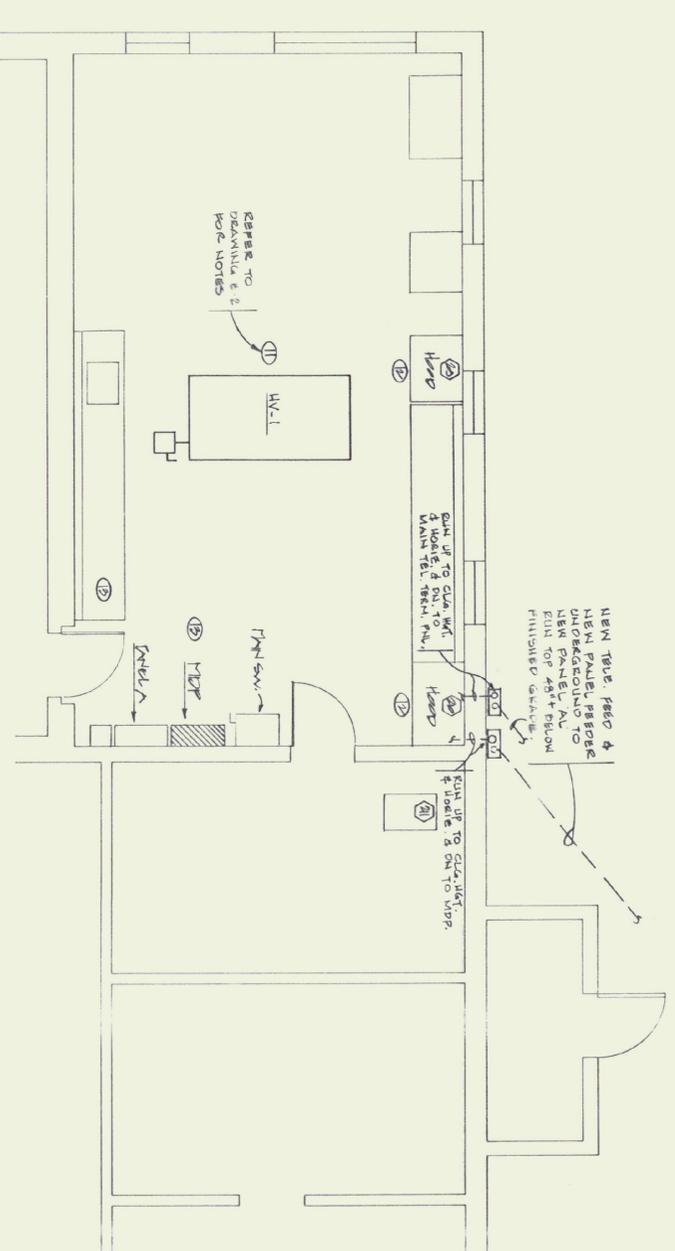
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 DRAWN BY: B.W.M.  
 APPROVED BY: [Signature]  
 REVISIONS: CAD FILE: P-CTL-02  
 SHEET: 2 OF 3  
 DWG NO. P-1

10/12

TYPE	MANUFACTURER	CAT No.	LUMPS	DIFFUSER	MOUNTING	REMARKS
A	LITHONIA	LV 200T 100 ES H/O BOX	2-FIXE CYLES	HEAT TREAT ACRYLIC	SPRINGMOUNT SPRINGERHANGER MOUNT IN STRUCTURE-12	Subgrade N/A
B	LITHONIA	VX 100 DS	1-FIXE IN	SLIP GLASS SPOT LIGHT	SPRINGMOUNT	Subgrade N/A
C	LITHONIA	MANIC 100 EL	1-FIXE IN	SLIP GLASS SPOT LIGHT	SPRINGMOUNT	Subgrade N/A
D	LITHONIA	ELM2	1-FIXE IN	SPRINGMOUNT	SPRINGMOUNT	Subgrade N/A
E	LITHONIA	TWL-100100 RB	1-FIXE IN	SPRINGMOUNT	SPRINGMOUNT	Subgrade N/A

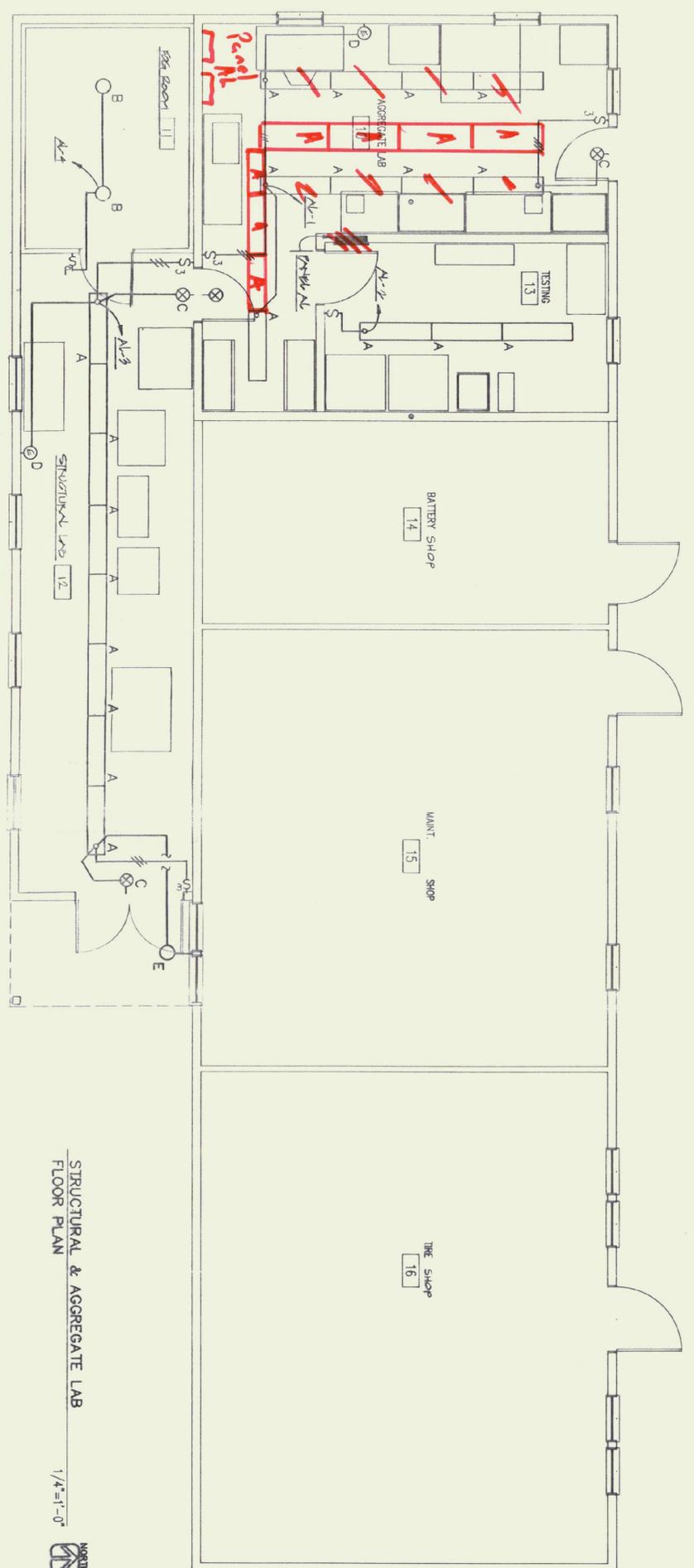
EXISTING BLDG. - DEMOLITION PLAN

1/4"=1'-0"



LEGEND

- FLUORESCENT FIXTURE, LETTER DENOTES THE FIX DENOTES EMERGENCY LIGHT
- NONRECESSED ANTI-COR FLUORESCENT FIXTURE, CEILING MTD. LETTER DENOTES THE
- NONRECESSED ANTI-COR FLUORESCENT FIXTURE, WALL MTD. LETTER DENOTES THE
- HIGH INTENSITY DISCHARGE (HID) FIXTURE, WALL MOUNTED. LETTER DENOTES THE
- EXT/EMERGENCY HARDWARE, CEILING MTD. LETTER DENOTES THE
- SWITCH, SINGLE POLE, LEVITON #1201, 120V, 125V, GROUNDING, MOUNT TOP 44" AFF.
- SWITCH, THREE-WAY, LEVITON #723, 120V, GROUNDING, MOUNT TOP 44" AFF.
- SWITCH W/PULL-UP, LEVITON #2074
- MOUNT TOP 44" AFF.
- DUPLEX RECEPT, LEVITON #562, 120V, 125V, MOUNT BOTTOM 16" AFF. E.M.C. DENOTES ELECTRIC WATER FLEXIBLE
- DUPLEX RECEPT, LEVITON #562, 120V, 125V, MOUNT HORIZONTALLY ABOVE COUNTER HEIGHT.
- DOUBLE DUPLEX RECEPT, LEVITON #562, 120V, 125V, MOUNT 16" AFF.
- DUPLEX RECEPT, W/ GEL PROTECTION, LEVITON #338-1, MOUNT HORIZONTALLY ABOVE COUNTER HEIGHT.
- DUPLEX RECEPT, W/ GEL PROTECTION, LEVITON #338-1, W/ GEL PROTECTION, MOUNT BOTTOM 16" AFF. E.M.C. DENOTES WEATHERPROOF
- DUPLEX RECEPT, W/ GEL PROTECTION, LEVITON #338-1, W/ GEL PROTECTION, MOUNT BOTTOM 16" AFF. E.M.C. DENOTES WEATHERPROOF
- HORIZONTAL MOUNT, W/ GEL PROTECTION, LEVITON #338-1, W/ GEL PROTECTION, MOUNT BOTTOM 16" AFF. E.M.C. DENOTES WEATHERPROOF
- JUNCTION BOX
- DISCONNECT SWITCH, W.P. DENOTES WEATHERPROOF.
- MOTOR CO. INDICATOR
- MOTOR
- PANELBOARD, SURFACE MTD./PUSH-UP
- DISTRIBUTION PANEL
- BRANCH CIRCUIT WIRING CONCEALED IN WALL, CEILING & FLOOR.
- ( ) DENOTES CONDUCTOR COUNT
- HORIZONTAL W/ PANELBOARD ( ) DENOTES CONDUCTOR COUNT
- TELEPHONE D/B
- TELEPHONE D/B
- TELEPHONE D/B



STRUCTURAL & AGGREGATE LAB

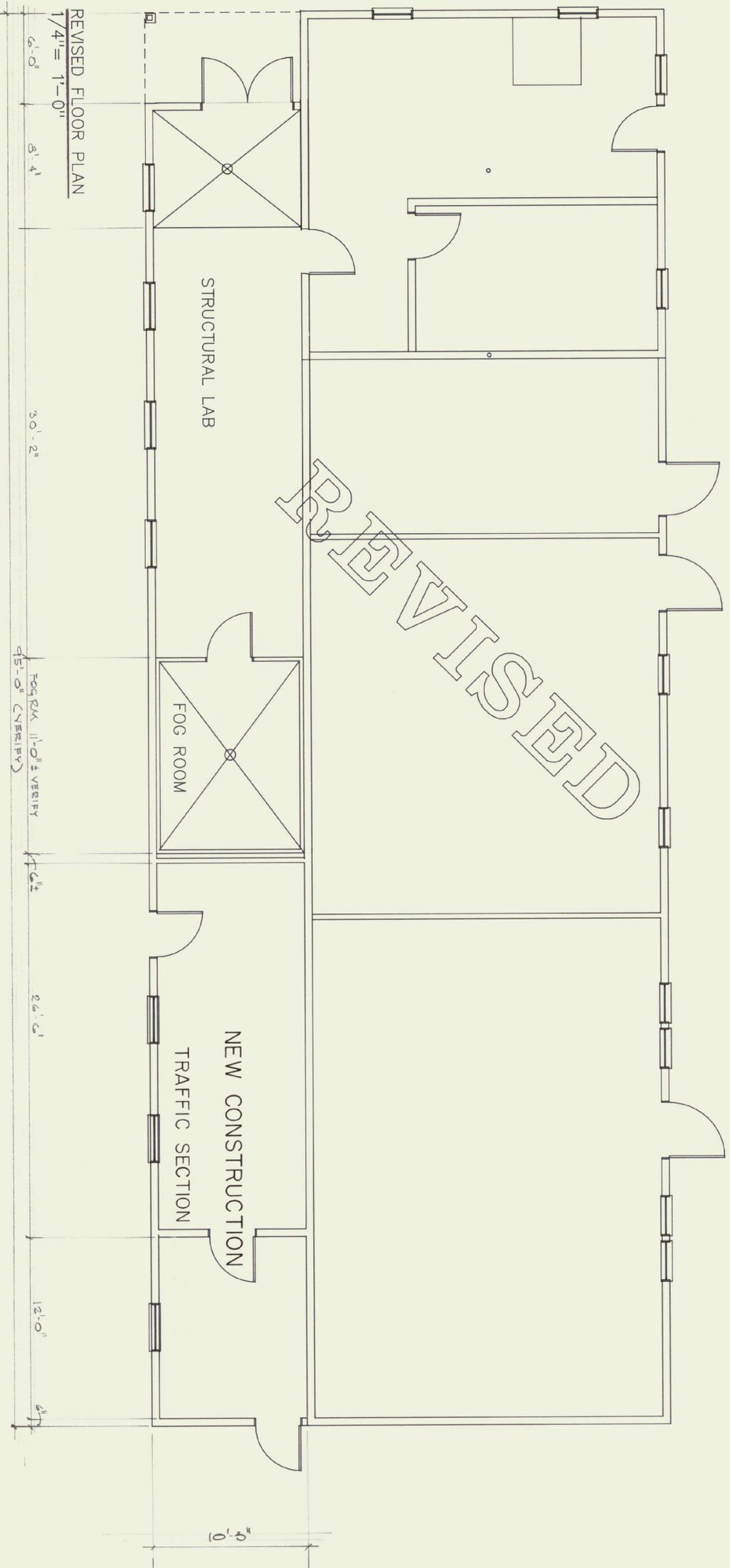
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NOTES: ADDED BY ARCHITECT OCTOBER 12, 2015

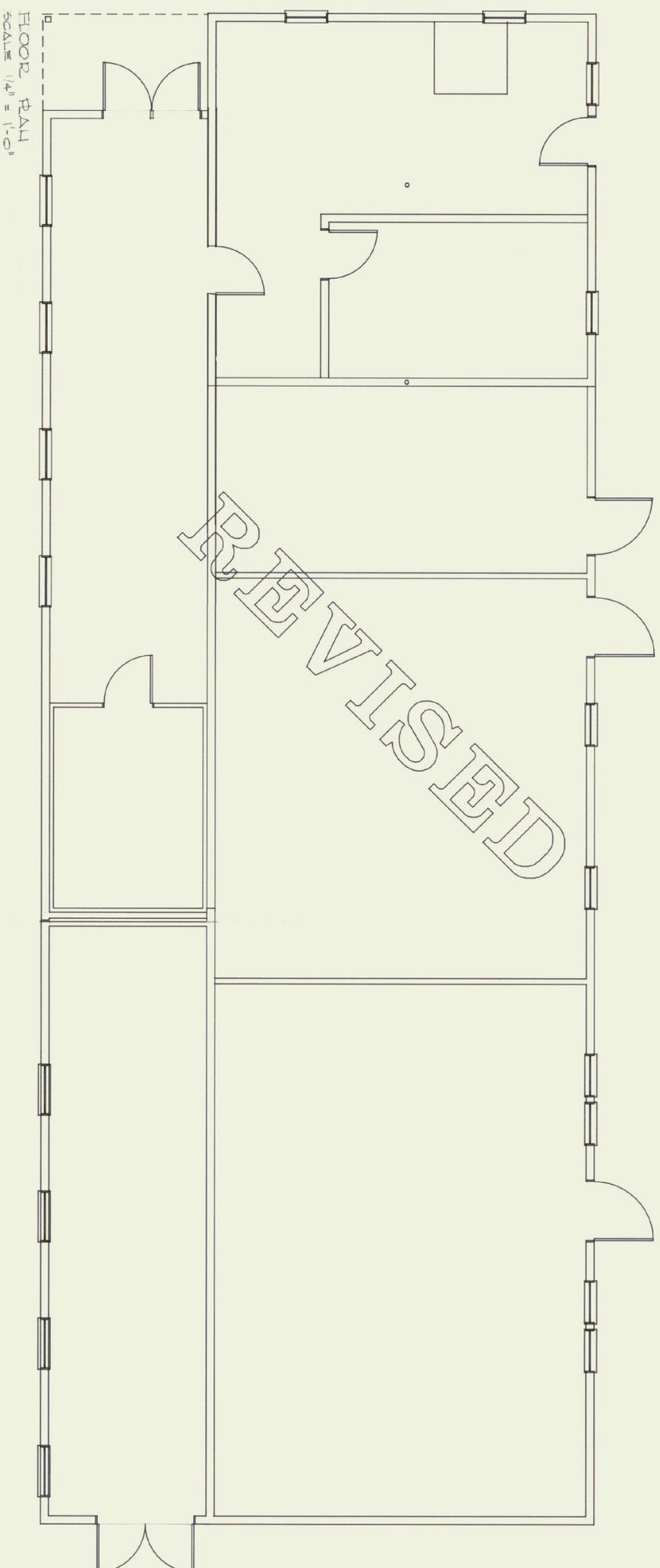
- REFER TO THE SITE PLAN ON THE TITLE SHEET FOR THE APPROXIMATE LOCATION OF EXISTING UTILITIES AND THE PROPOSED UNDERGROUND ELECTRICAL SERVICE AND DRAINAGE TRENCHES.
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ON-DRAINAGE, 4" DIA. 45' DIA. 5" DIA. 7" DIA. 8" DIA. 10" DIA. 12" DIA. 14" DIA. 16" DIA. 18" DIA. 20" DIA. 22" DIA. 24" DIA. 26" DIA. 28" DIA. 30" DIA. 32" DIA. 34" DIA. 36" DIA. 38" DIA. 40" DIA. 42" DIA. 44" DIA. 46" DIA. 48" DIA. 50" DIA. 52" DIA. 54" DIA. 56" DIA. 58" DIA. 60" DIA. 62" DIA. 64" DIA. 66" DIA. 68" DIA. 70" DIA. 72" DIA. 74" DIA. 76" DIA. 78" DIA. 80" DIA. 82" DIA. 84" DIA. 86" DIA. 88" DIA. 90" DIA. 92" DIA. 94" DIA. 96" DIA. 98" DIA. 100" DIA. 102" DIA. 104" DIA. 106" DIA. 108" DIA. 110" DIA. 112" DIA. 114" DIA. 116" DIA. 118" DIA. 120" DIA. 122" DIA. 124" DIA. 126" DIA. 128" DIA. 130" DIA. 132" DIA. 134" DIA. 136" DIA. 138" DIA. 140" DIA. 142" DIA. 144" DIA. 146" DIA. 148" DIA. 150" DIA. 152" DIA. 154" DIA. 156" DIA. 158" DIA. 160" DIA. 162" DIA. 164" DIA. 166" DIA. 168" DIA. 170" DIA. 172" DIA. 174" DIA. 176" DIA. 178" DIA. 180" DIA. 182" DIA. 184" DIA. 186" DIA. 188" DIA. 190" DIA. 192" DIA. 194" DIA. 196" DIA. 198" DIA. 200" DIA. 202" DIA. 204" DIA. 206" DIA. 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**REV. FLOOR PLAN**

<p>REVISIONS DEC 26, 1989:          1. REVERSED STRUCTURAL LAB          2. EXTEND LEAN-TO FOR THE LENGTH OF BLDG</p>	<p>State of Vermont          Department of State Buildings          John Zampieri, Commissioner</p>	<p>Materials &amp; Research          Laboratory          Berlin, VT</p>	<p>Janson Design, Inc.          P.O. BOX 55 - BERLIN, VERMONT 05676          (802) 244-5800</p>	<p>DATE:          OCT. 10,          1989          DWG. NO.          REV  <b>2.</b></p>
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<p>State of Vermont Department of State Buildings John Zampieri, Commissioner</p>	<p>Materials &amp; Research Laboratory Berlin, VT</p>	<p>Janson Design, Inc. FRED KEIL, ARCHITECT P.O. BOX 55 - BURLINGTON, VT 05478 (802) 244-5800</p>	<p>Architect's Project No. 247</p>	<p>DATE: OCT. 10, 1989</p>	<p>DWG. NO. A2R</p>
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