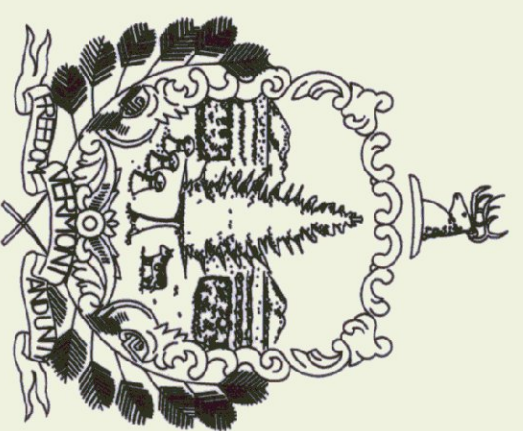


State of Vermont
 Department of State Buildings
 AGENCY OF TRANSPORTATION
 MONTGOMERY MAINTENANCE FACILITY

Montgomery, Vermont

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

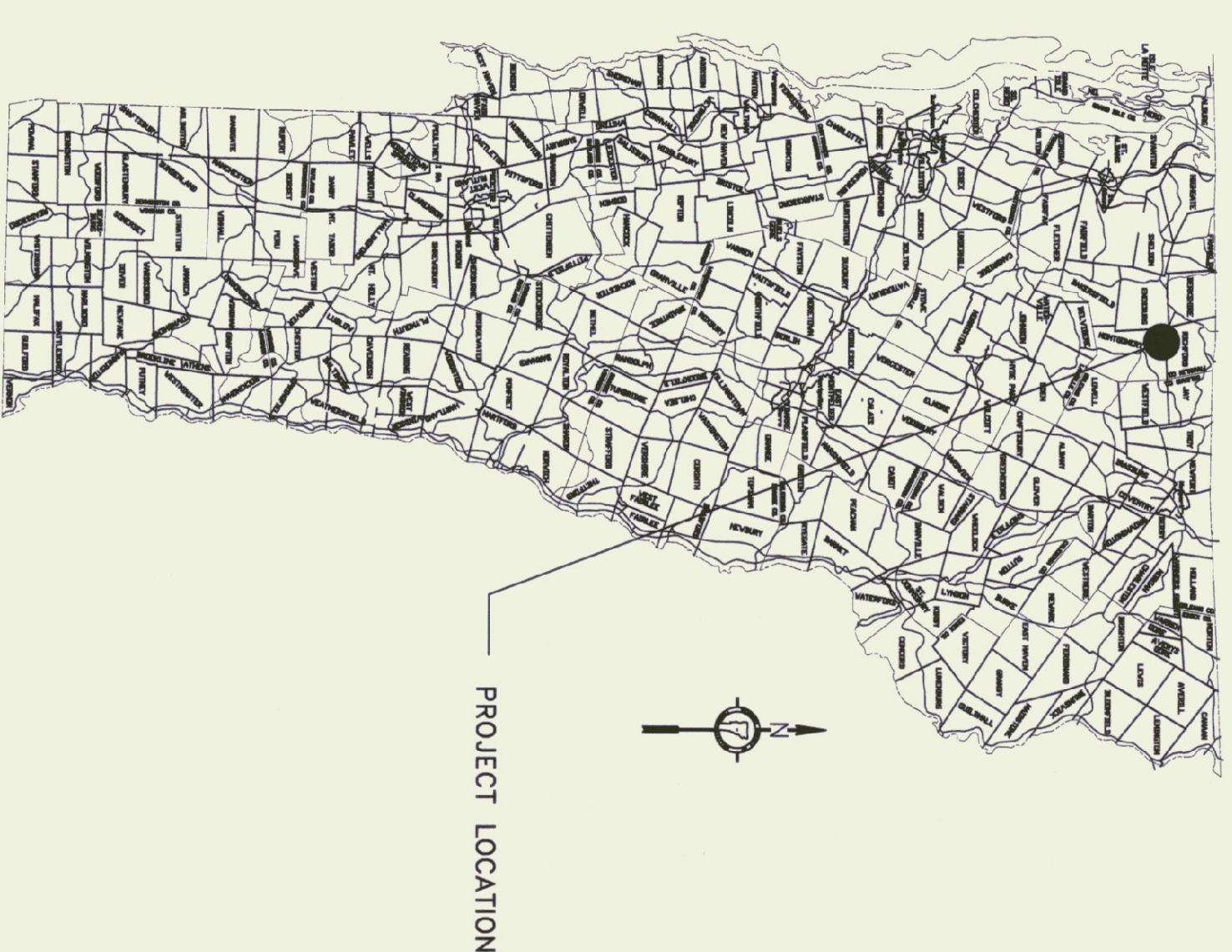


James Douglas
 Governor

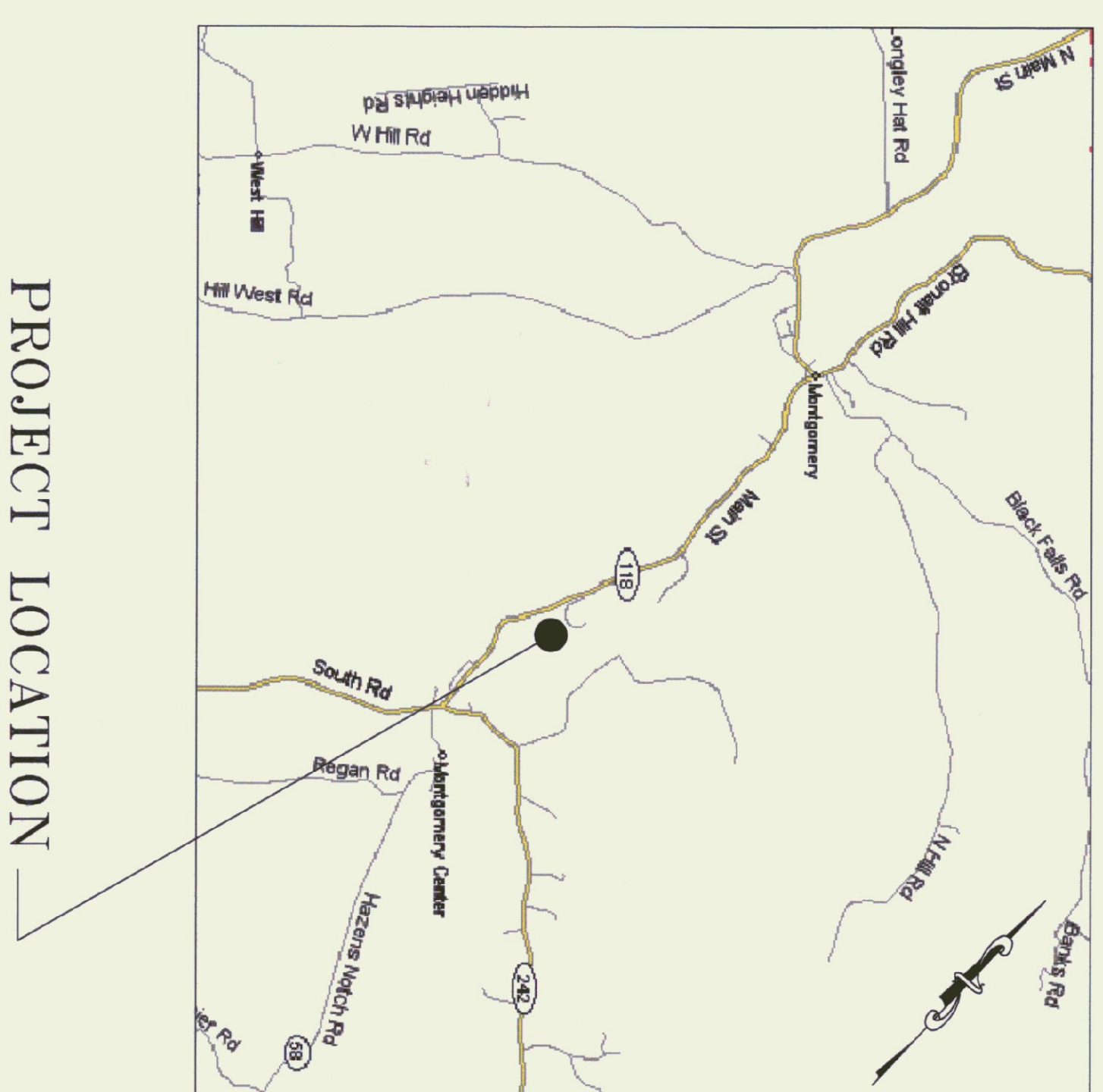
MAY, 2003

INDEX OF SHEETS

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AGENCY OF TRANSPORTATION
 1 NATIONAL LIFE DRIVE
 MONTPELIER, VERMONT 05633
 PATRICIA A. McDONALD, SECRETARY





SITE ENGINEER:



CIVIL ENGINEERING ASSOCIATES, INC.
 P.O. BOX 468 SHELBURNE, VT 05482
 802-885-2323 FAX: 802-885-2271 WWC: WWW.CEA-INC.COM

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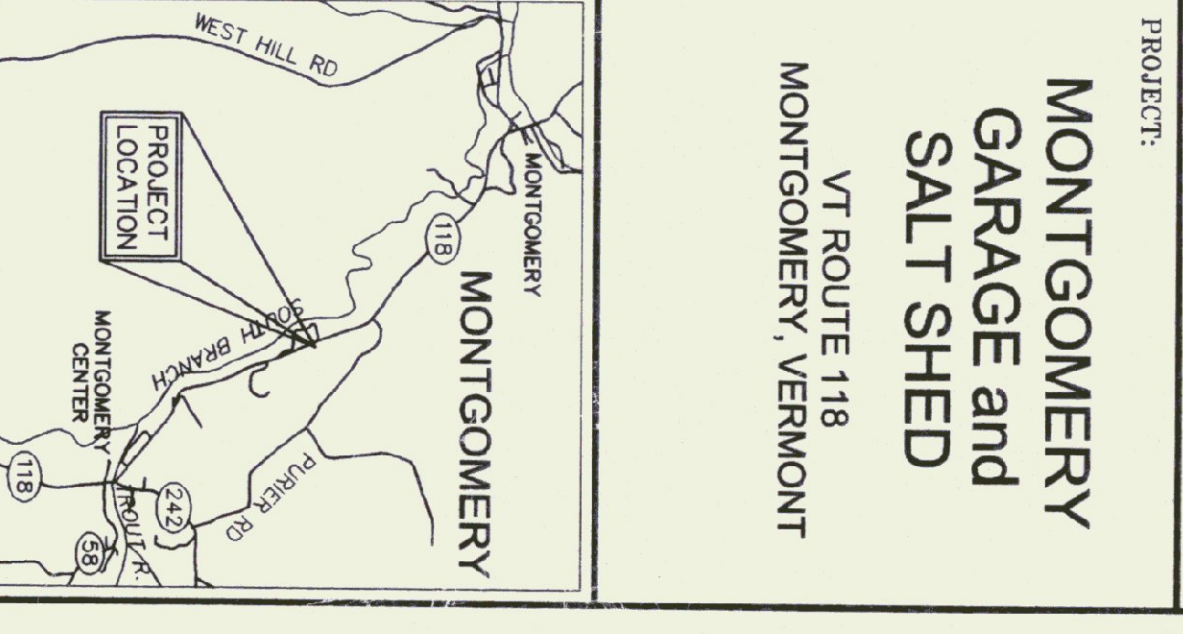
OWNER:

STATE OF VERMONT
 DEPARTMENT OF BUILDINGS AND GENERAL SERVICES
 MONTPELIER, VERMONT

DRAWN: PJM
 CHECKED: BCE
 APPROVED: BCE

PROJECT:

MONTGOMERY GARAGE and SALT SHED
 VT ROUTE 118
 MONTGOMERY, VERMONT



DATE	CHECKED	REVISION

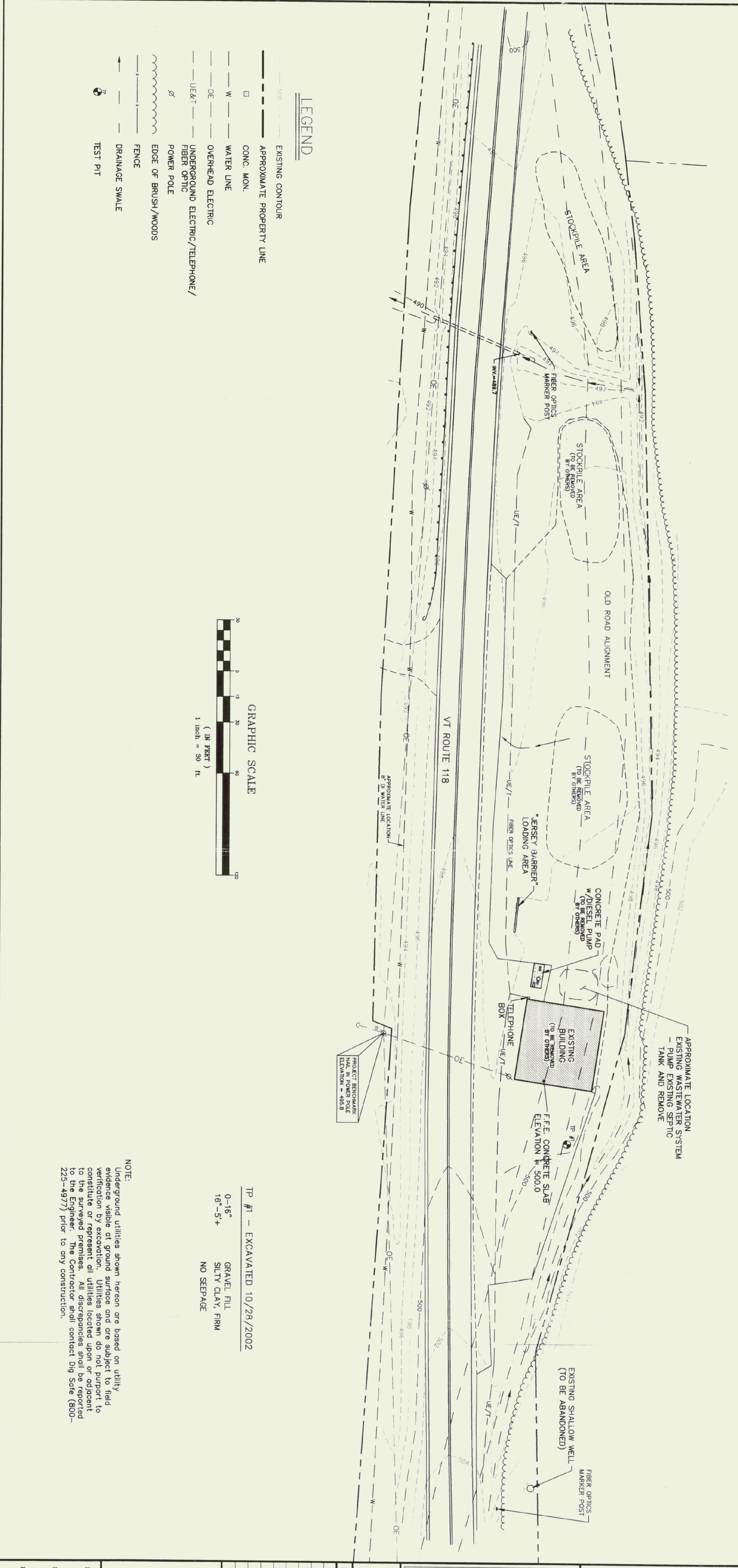
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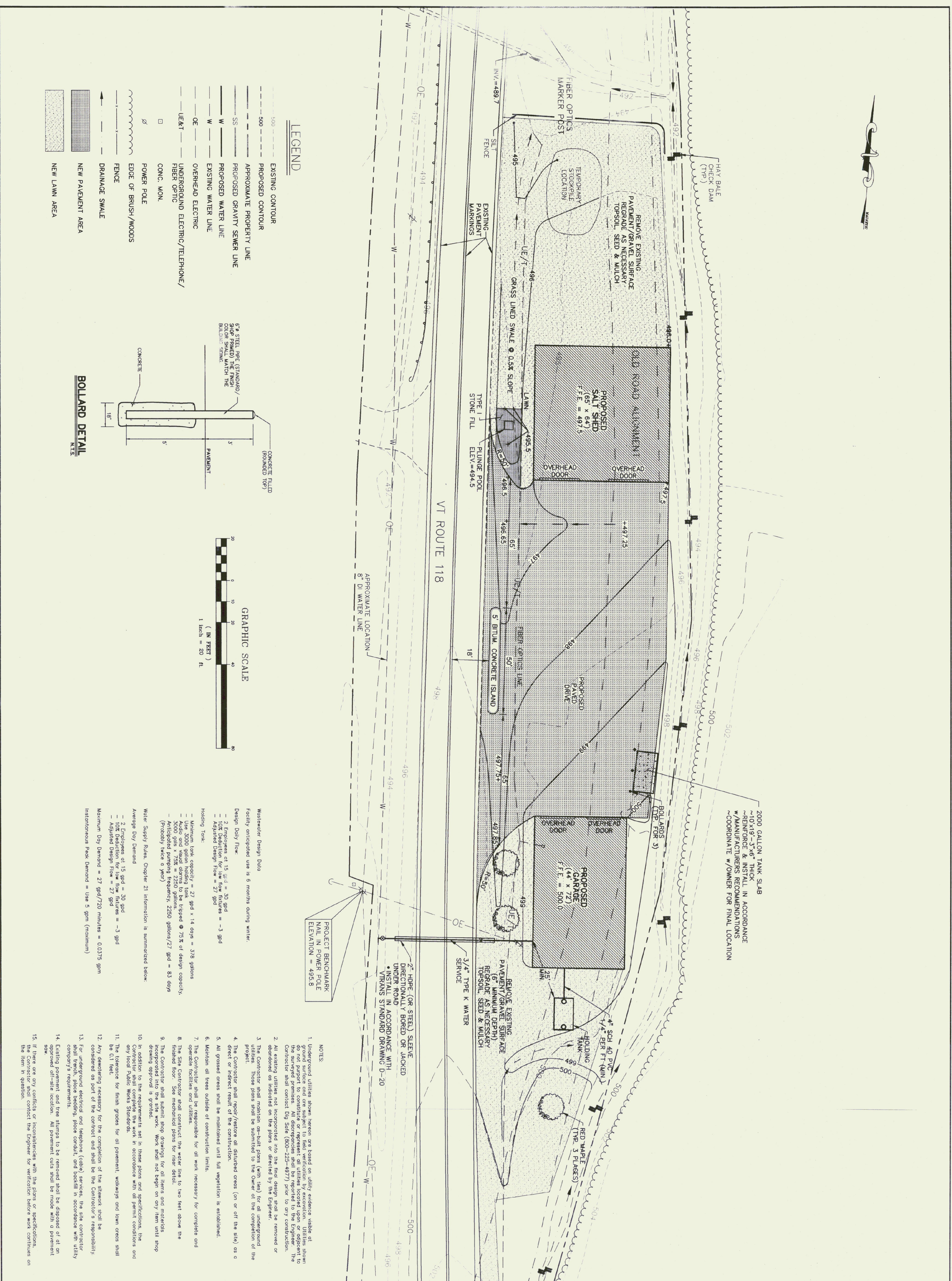
DATE: JAN., 2003
 SCALE: 1" = 30'
 PROJ. NO.: 01309.02

DRAWING NUMBER: **C1**

NOTE:

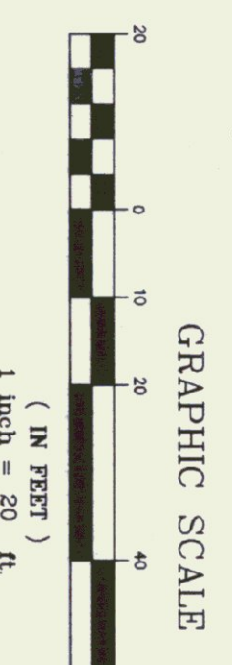
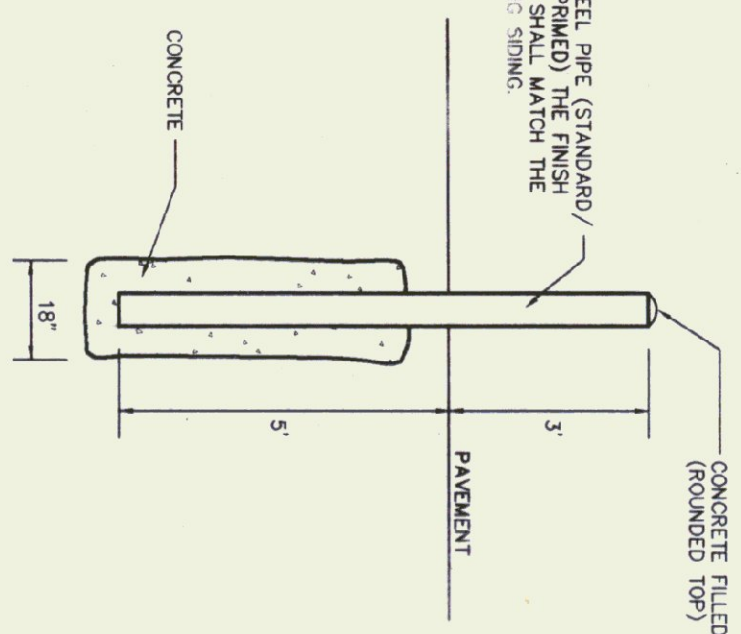
Underground utilities shown hereon are based on utility evidence visible at ground surface and are subject to field verification by excavation. Utilities shown do not purport to constitute or represent all utilities located upon or adjacent to the surveyed premises. All discrepancies shall be reported to the Engineer. The Contractor shall contact Dig Safe (800-225-4377) prior to any construction.





LEGEND

- 500 --- EXISTING CONTOUR
- 500 --- PROPOSED CONTOUR
- APPROXIMATE PROPERTY LINE
- SS --- PROPOSED GRAVITY SEWER LINE
- W --- PROPOSED WATER LINE
- W --- EXISTING WATER LINE
- OE --- OVERHEAD ELECTRIC
- UE&T --- UNDERGROUND ELECTRIC/TELEPHONE/FIBER OPTIC CONG. MON.
- ∅ POWER POLE
- EDGE OF BRUSH/WOODS
- FENCE
- DRAINAGE SWALE
- NEW PAVEMENT AREA
- NEW LAWN AREA



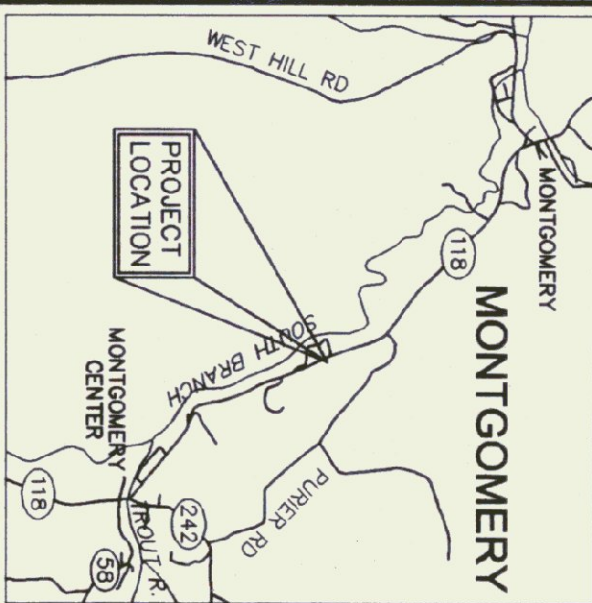
- Watermeter Design Data**
 Facility anticipated use is 6 months during winter.
 Design Daily Flow:
 - 2 Employees at 15 gpd = 30 gpd
 - Adjusted Design Flow = -3 gpd
 - Adjusted Design Flow = 27 gpd
- Holding Tank:**
 - Minimum tank capacity = 27 gpd x 14 days = 378 gallons
 - Use 3000 gallon holding tank
 - 3000 gals x 75% = 2250 gallons
 - Anticipated pumping frequency: 2250 gallons / 27 gpd = 83 days (probably twice a year)
- Water Supply Rules, Chapter 21 information is summarized below:**
 Average Day Demand
 - 2 Employees at 15 gpd = 30 gpd
 - Adjusted Design Flow = -3 gpd
 - Adjusted Design Flow = 27 gpd
 Maximum Day Demand = 27 gpd / 20 minutes = 0.0375 gpm
 Instantaneous Peak Demand = Use 5 gpm (minimum)

PROJECT BENCHMARK NAIL IN POWER POLE ELEVATION = 495.8

NOTES

1. Underground utilities shown herein are based on utility evidence visible at ground surface and are subject to field verification by excavation. Utilities shown on this drawing are not to be used for any other purpose. All discrepancies shall be reported to the Engineer. The Contractor shall contact Dig Safe (800-225-4977) prior to any construction.
2. All existing utilities not incorporated into the final design shall be removed or abandoned as indicated on the plans or directed by the Engineer.
3. The Contractor shall maintain a 4-foot clear (with head) for all underground utilities. These poles shall be submitted to the Owner at the completion of the project.
4. The Contractor shall repair/replace all disturbed areas (on or off the site) as a direct or indirect result of the construction.
5. All graded areas shall be maintained until full vegetation is established.
6. Mention of trees outside of construction limits.
7. The Contractor shall be responsible for all work necessary for complete end operator facilities and utilities.
8. The City Contractor shall contact the water line to two feet above the finished floor. See mechanical plans for riser detail.
9. The Contractor shall submit shop drawings for all items and materials drawing approval is granted. Work shall not begin on any item until shop drawings are approved.
10. In addition to the requirements set in these plans and specifications, the Contractor shall adhere to the work in accordance with all permit conditions and any local Public Works Standards.
11. The tolerance for finish grades for all pavement, walkways and lawn areas shall be 0.1 feet.
12. Any dewatering necessary for the completion of the project shall be considered as part of the contract and shall be the Contractor's responsibility.
13. For underground electrical and telephone (cable) services, the site contractor shall trench, place bedding, place conduit, and backfill in accordance with utility company's requirements.
14. Existing pavement and tree stumps to be removed shall be disposed of at an approved off-site location. All pavement cuts shall be made with a pavement saw.
15. If there are any conflicts or inconsistencies with the plans or specifications, the Contractor shall contact the Engineer for verification before work continues on the item in question.

LOCATION MAP
 1" = 2000'



PROJECT:
 MONTGOMERY GARAGE and SALT SHED
 VT ROUTE 118
 MONTGOMERY, VERMONT

STATE OF VERMONT
 DEPARTMENT OF BUILDINGS AND GENERAL SERVICES
 MONTPELIER, VERMONT

CIVIL ENGINEERING ASSOCIATES, INC.
 P.O. BOX 485 SHELburnE, VT 05482
 802-885-2323 FAX: 802-885-2271 MDC: WWW.CEA-INC.COM
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OWNER:
 STATE OF VERMONT

DRAWN: PJM
CHECKED: BCE
APPROVED: BCE

DATE: JAN., 2003
SCALE: 1" = 20'
PROJECT NO.: 01309.02

PROPOSED CONDITIONS PLAN

DRAWING NUMBER: C2

EROSION CONTROL REQUIREMENTS

PART 1 - GENERAL

1.01 SUMMARY

- A. The work under this section includes but is not limited to providing all labor, equipment and materials for the installation of all required site related erosion control measures. If not otherwise directed on the plan, erosion control measures shall be installed in accordance with the edition of the Vermont Handbook for Soil Erosion and Sediment Control on Construction Sites.

1.02 GENERAL NOTES

- A. The discharge of sediment laden water from the project site is prohibited. All discharged water from dewatering operations shall discharge into a temporary sedimentation basin.

- B. Contractor shall install all erosion control measures as depicted on plans and details or as recommended by the Vermont Agency of Natural Resources, or Soil Conservation Service, prior to any construction. Contractor shall also be responsible for inspecting and maintaining all erosion control measures until project is completed.
- C. Contractor shall also limit the soil disturbance and seeding application dates to between May 1st and October 15th. If soil disturbance occurs later than October 15th and prior to May 1st, winter erosion control measures shall be installed in accordance with the Vermont Handbook for additional site specific winter erosion control measures.

- D. All stockpile material (topsoil, borrow, etc.) will have a hay bale dike or silt fence constructed around the stockpile as possible to prevent soil erosion and sedimentation off site. Locate stockpiles on the uphill side of the disturbed area, if possible. During windy conditions, stockpiled material shall be covered or watered appropriately to prevent wind erosion.

- E. Slopes greater than 1:3 shall have erosion control netting installed to stabilize the slope and reduce the erosion potential. Install netting over mulched slopes so that all parts are in contact with the soil and mulch. Pin netting to the slopes 3' o.c. to ensure full bonding with soil surfaces.

- F. Install hay bales in grass-lined ditches 50 feet on center to prevent silt from washing into the drainage system during installation. Hay bales shall be removed when vegetation is established.
- G. Control dust through the application of calcium chloride or water. An average application of one pound of calcium chloride per square yard of exposed area should be applied to the surface of the exposed area. Applications and amount of dust controller shall be based upon field and weather conditions. It shall be spread in such manner and by such devices that uniform distribution is obtained over the entire area on which it is ordered placed.

- H. Where required on the plans or where directed by the Engineer, erosion control blankets (matting) shall be North American Green G235 for swales, and SCT350 for slope stabilization, Type 2, may be used.

- I. All water used shall be clean and free of harmful amounts of oil, grease, paint, or other substances injurious to the finished product, plant life or the establishment of vegetation.

- J. Bales shall be placed in a row with ends tightly abutting the adjacent bales. Each bale shall be interlocked in a minimum of 4 inches. Bales shall be securely anchored in the ditch with a minimum of 200 lbs. of weight. The first stake in each bale shall be driven toward the previously laid bale to force the bales together.

- K. Bales shall be repaired or replaced as needed. Once vegetation is established and the bales are no longer needed for erosion control, they shall be removed.

- L. The silt fences shall be constructed in accordance with the construction detail on the plans and shall be installed 10 feet from the edge of the slope or driveway on the plans. The ends of the fence shall be placed uphill to form a horseshoe shape to trap all runoff.

- M. The silt fences shall be inspected periodically for damage or removal of debris. Sediment deposits shall be removed from the fence as they build up and be placed in an area where there is no danger of further erosion.

- N. Erosion matting shall be placed on all grass-lined ditches with profile grades exceeding 5.0% and shall be placed and maintained in accordance with the Vermont Agency of Transportation Standard Specifications Sections 654 and 755.07.

- O. As soon as construction is completed in a given area, it shall be topsoiled, seeded, fertilized and mulched as specified in the Permanent Seeding section.

- P. If the seeding fails to grow, it may need to be re-established to provide adequate erosion control.
- Q. If weeds become a problem, they may need to be controlled by mowing.

- R. A stabilized pad of crushed stone located as shown on the drawings shall be constructed for the purpose of preventing the tracking of sediment onto public rights-of-way.

- S. Design Criteria:
 1. Use 2.0 to 4.0 inch stone.
 2. Use 8 high layer of stone.
 3. Stone pad shall be full width of entrance.
 4. Minimum length shall be 50 feet.

- T. All ditches that are not stone-lined shall be topsoiled, seeded, fertilized and mulched. Any area which shows signs of erosion shall be topsoiled, seeded and maintained until permanent vegetation is established.

3.05 STABILIZED ROAD ENTRANCE

- A. A stabilized pad of crushed stone located as shown on the drawings shall be constructed for the purpose of preventing the tracking of sediment onto public rights-of-way.

- B. Design Criteria:
 1. Use 2.0 to 4.0 inch stone.
 2. Use 8 high layer of stone.
 3. Stone pad shall be full width of entrance.
 4. Minimum length shall be 50 feet.

- C. All ditches that are not stone-lined shall be topsoiled, seeded, fertilized and mulched. Any area which shows signs of erosion shall be topsoiled, seeded and maintained until permanent vegetation is established.

- D. Some ditches which will be temporary in nature, with stable slopes and the erode will not need to be stabilized with stone or seeding. These ditches will act as infiltrative areas and will have hydro check dams to minimize the move of fine grained materials.

- E. The stabilized road entrance shall be top dressed with additional stone should the existing stone become clogged with sediment.
- F. Hay or straw mulch is subject to wind action. Mulch may require anchoring as the weather conditions warrant.

- G. It is due to the project schedule, construction during the winter months is necessary, the Contractor shall follow the winter construction procedures outlined in the Vermont Handbook for Soil Erosion and Sediment Control on Construction Sites between October and May.

- H. All erosion control measures shall be inspected weekly and repaired and/or replaced as needed.
- I. All erosion control measures shall be inspected after periods of heavy rain.
- J. The stabilized road entrance shall be top dressed with additional stone should the existing stone become clogged with sediment.
- K. Hay or straw mulch is subject to wind action. Mulch may require anchoring as the weather conditions warrant.

- L. Section includes:
 1. Complete all seeding, materials and equipment to protection against wind or water erosion.
 2. The ground freezing.
 3. Mulch shall be applied to all disturbed areas of a rate of 50 pounds per 1,000 square feet. The Contractor shall maintain the mulch until permanent vegetation can be established.

- M. Adequate seed bed preparation, use of quality seed, and timely planting are required to achieve a good stand of vegetation to control erosion.

- N. All essential grading and all temporary structures, such as diversions, dams, ditches, and drains needed to prevent gulping and reduce erosion, should be completed prior to seeding.

- O. Seed and seeding rates may be selected from the table below. The seed rate is based on the length of time the vegetation is to be maintained. The seed should be spread uniformly over the area. After seeding, the soil should be tamped by rolling or packing. Where rolling or packing is not feasible, the seed should be covered lightly by raking, dragging, or disking.

- P. Plant Selection and Seeding Rates:

Species	Per 1000 Sq. Ft.	Remarks
Annual Ryegrass	40 lbs	Grows quickly, but is of short duration. Use where appearance or quick establishment is important.
Perennial Ryegrass	1 lb.	Establishes slowly, but is of long duration. Use where long term protection is required.
Perennial 30 lbs.	0.7 lbs.	Good cover which is longer lasting than annual ryegrass.

- Q. Where it is impracticable to incorporate fertilizer and seed into moist soil, the seeded area should be mulched to facilitate germination.

- R. If the seeding fails to grow, it may need to be re-established to provide adequate erosion control.
- S. If weeds become a problem, they may need to be controlled by mowing.

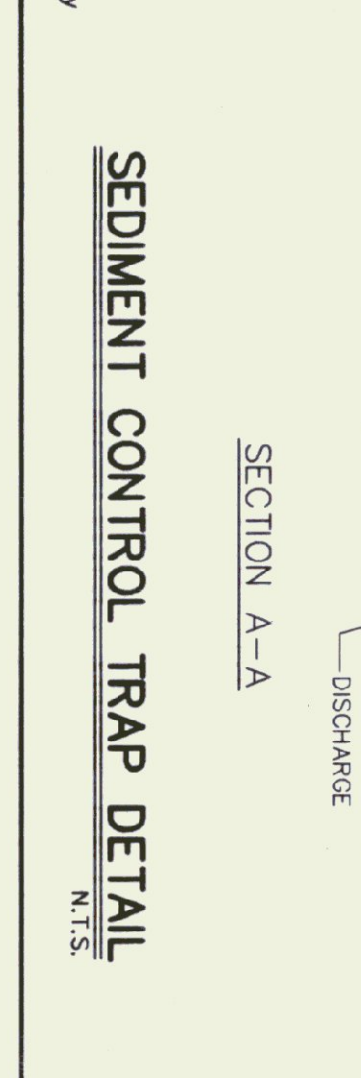
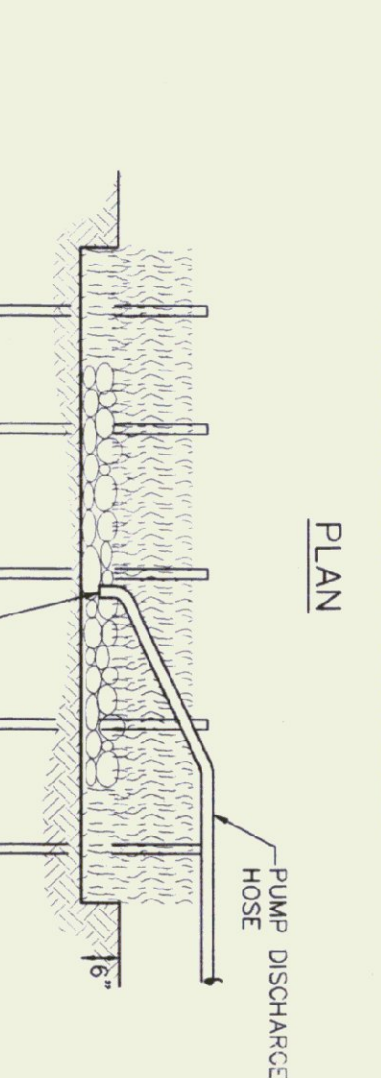
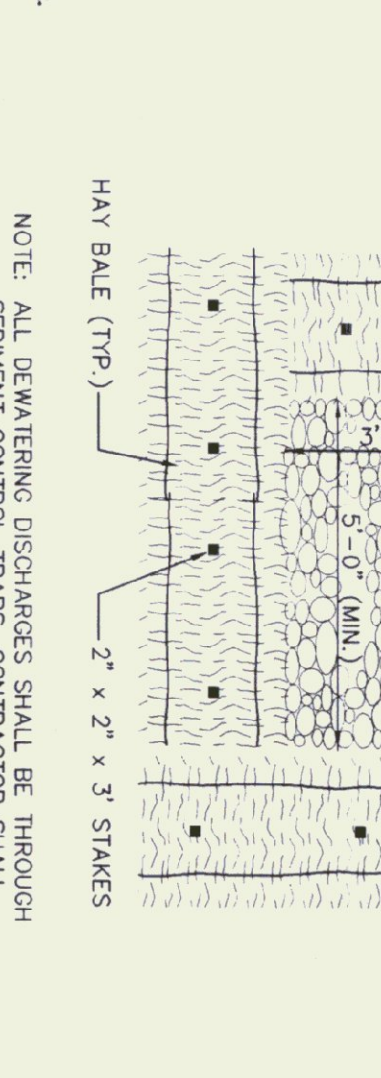
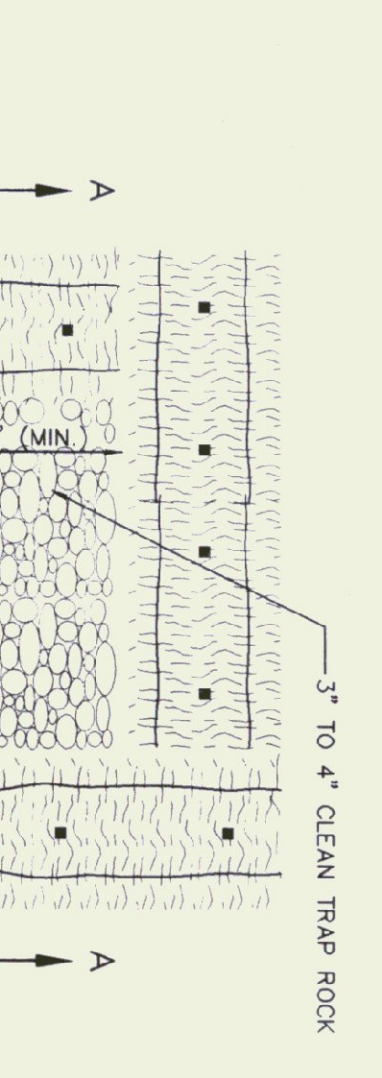
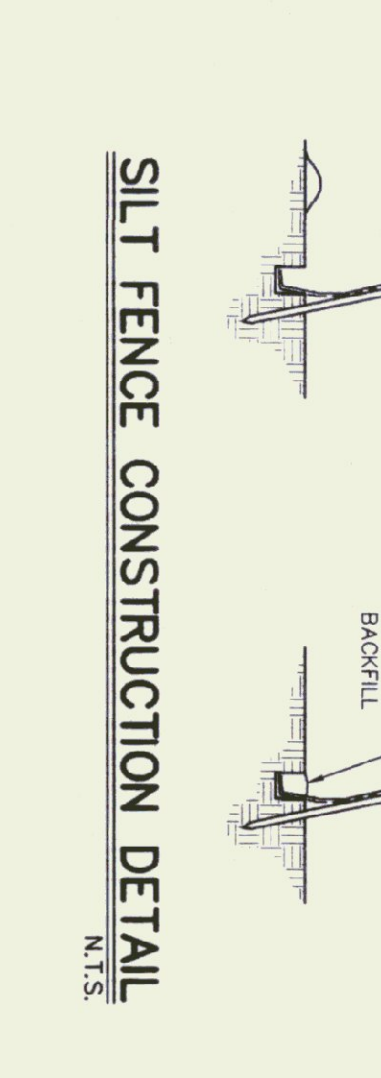
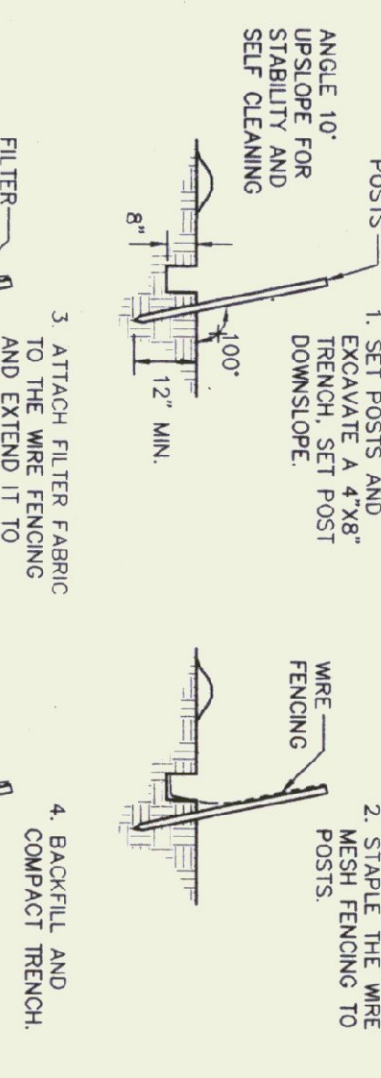
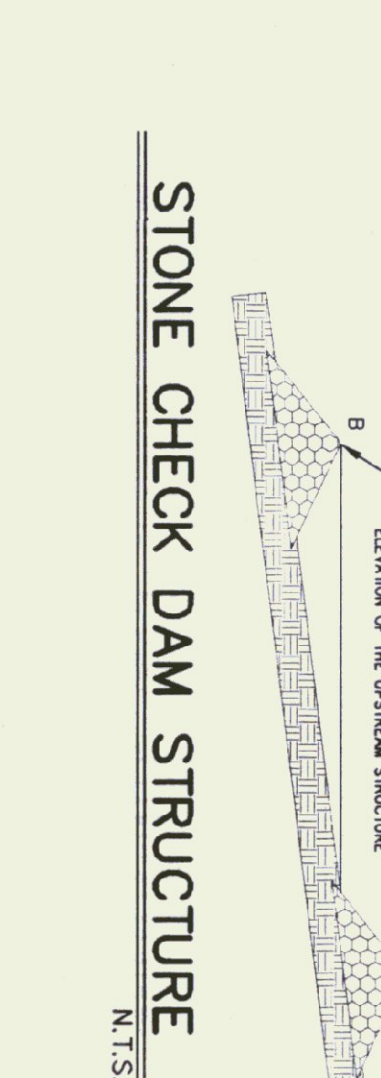
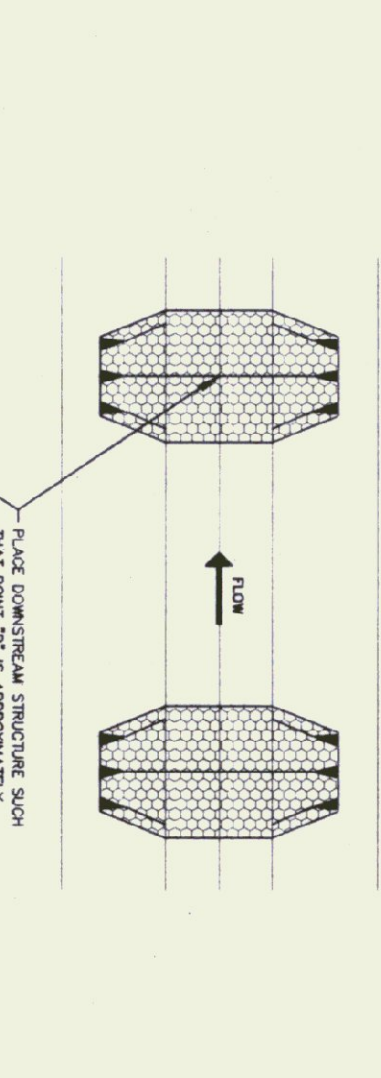
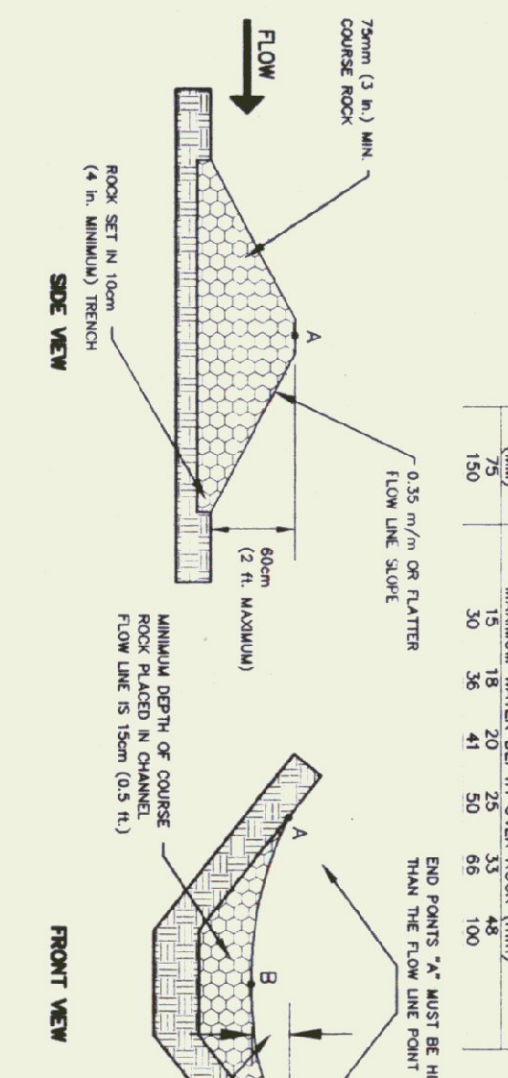
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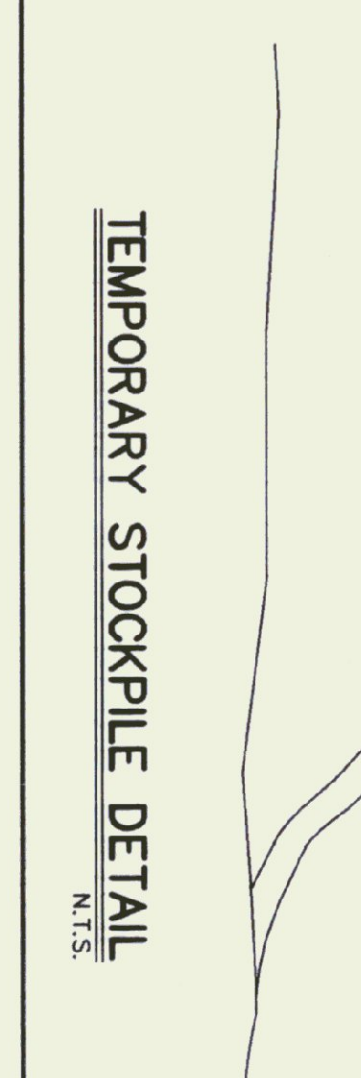
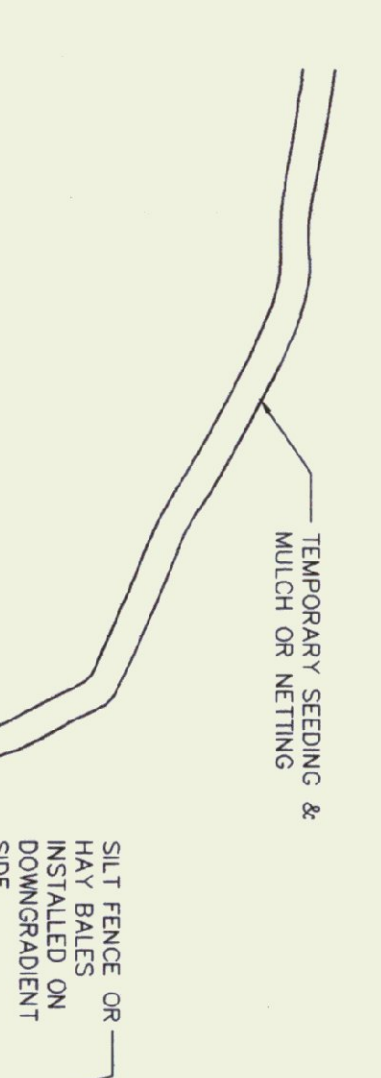
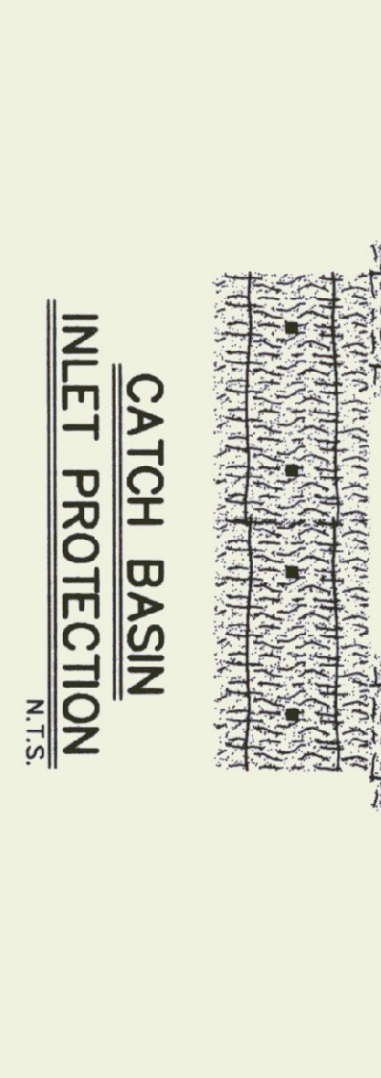
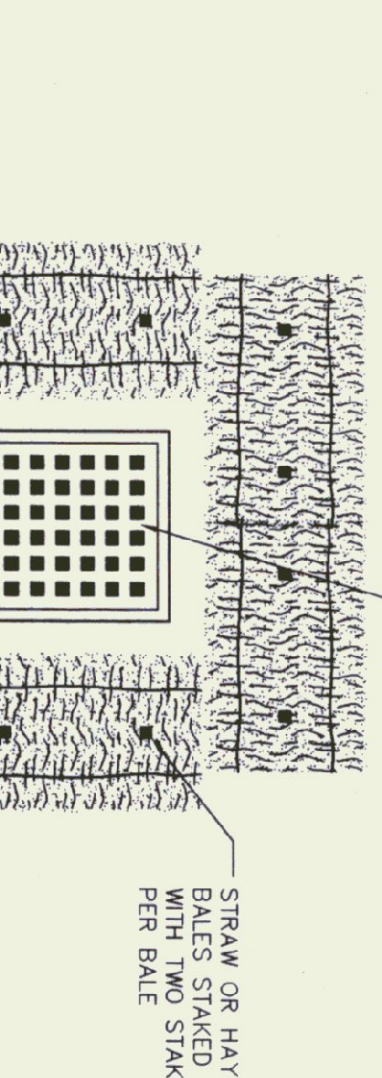
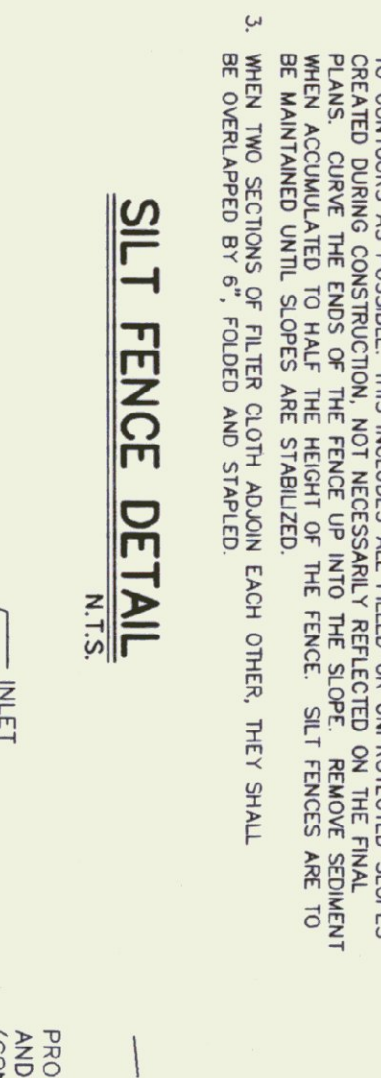
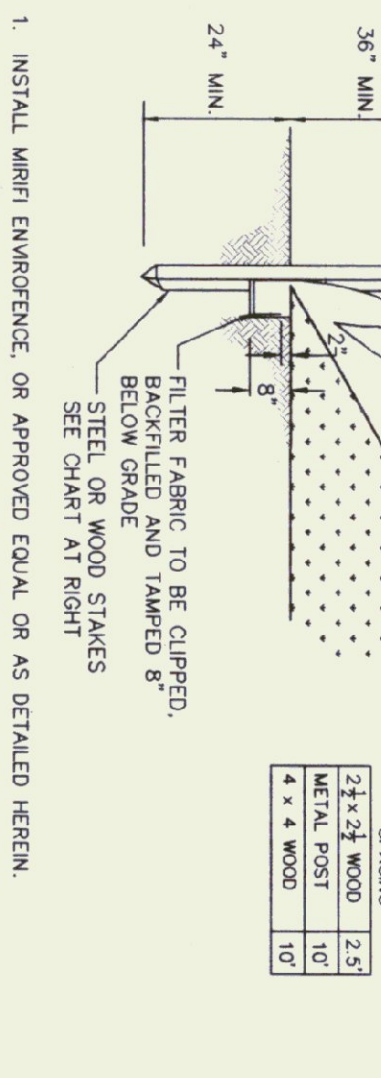
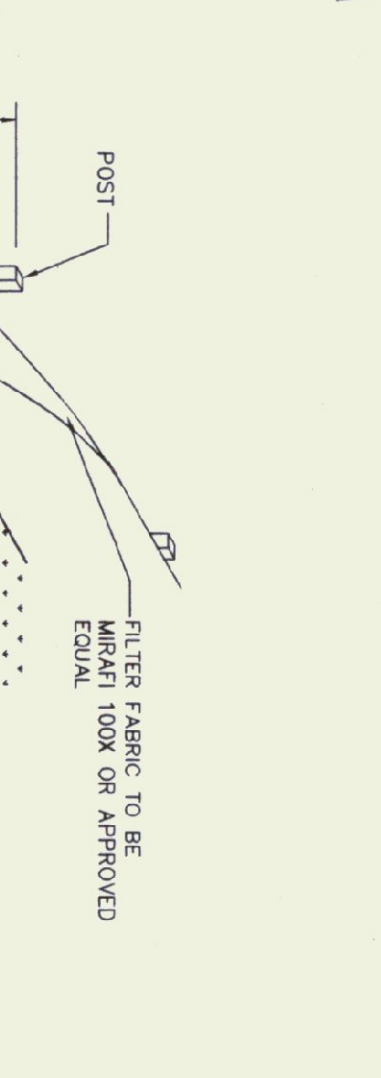
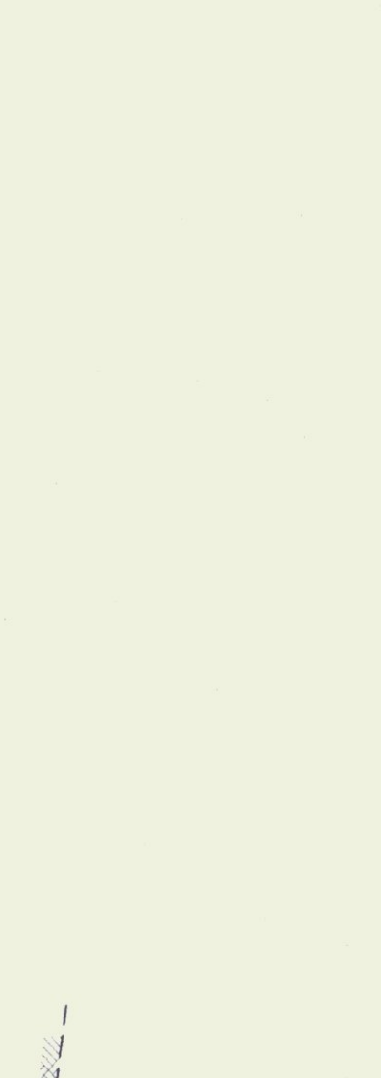
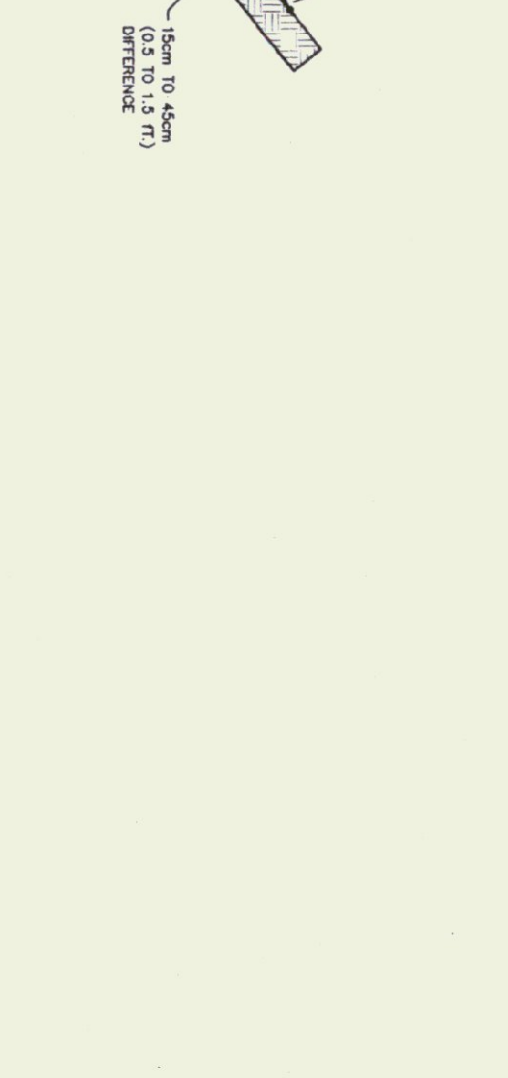
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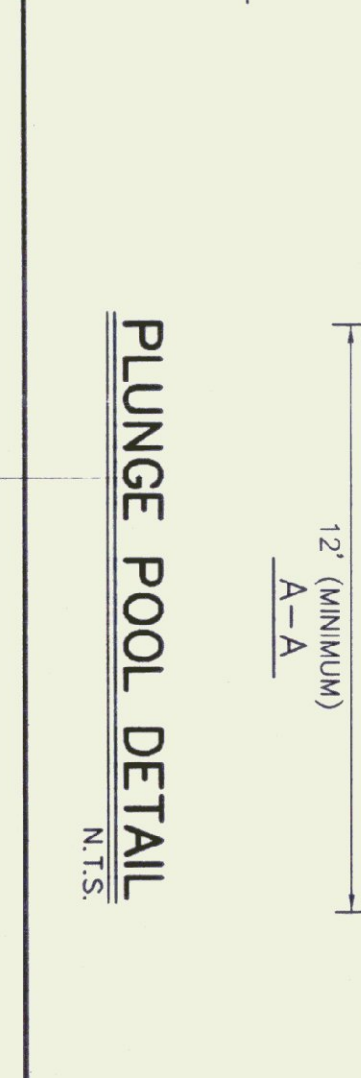
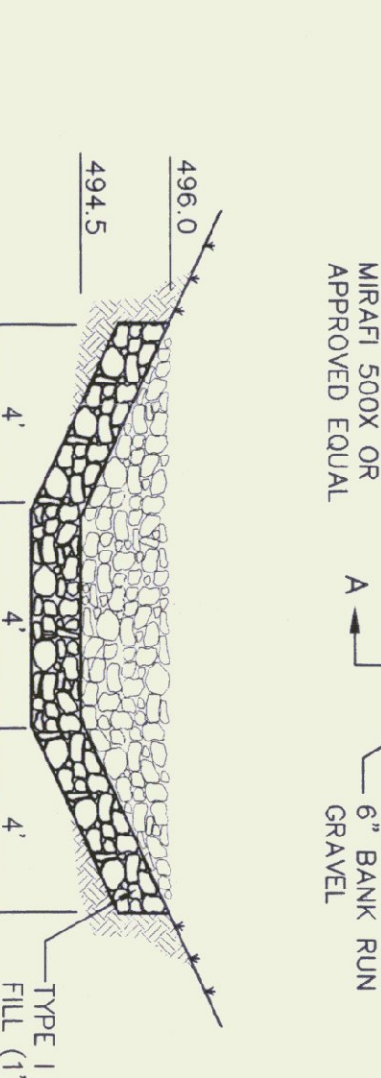
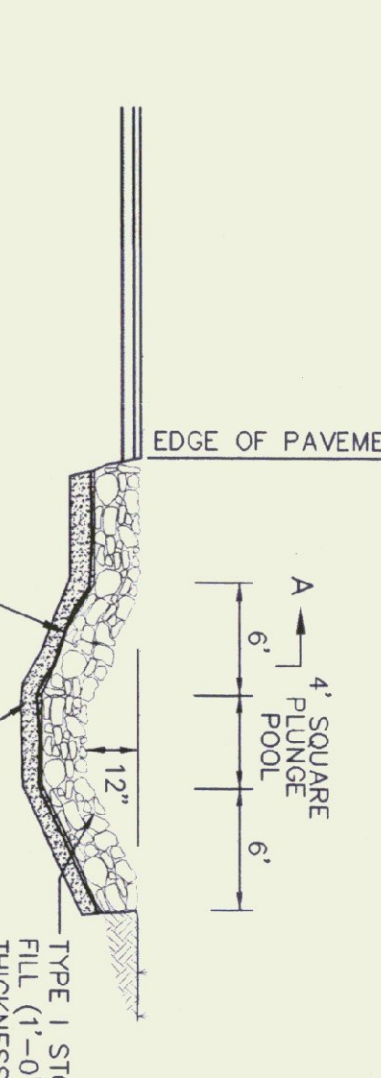
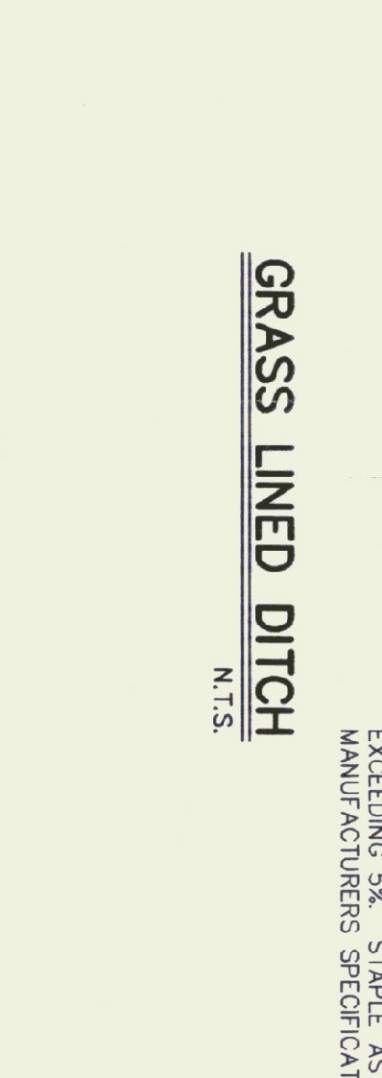
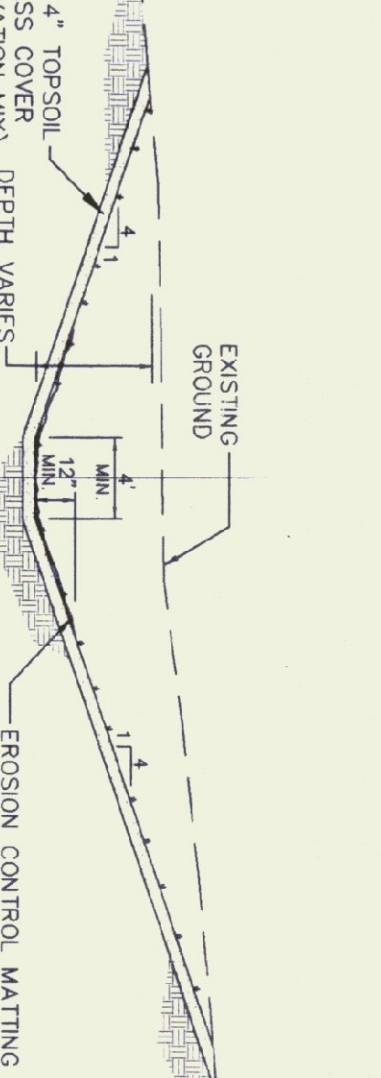
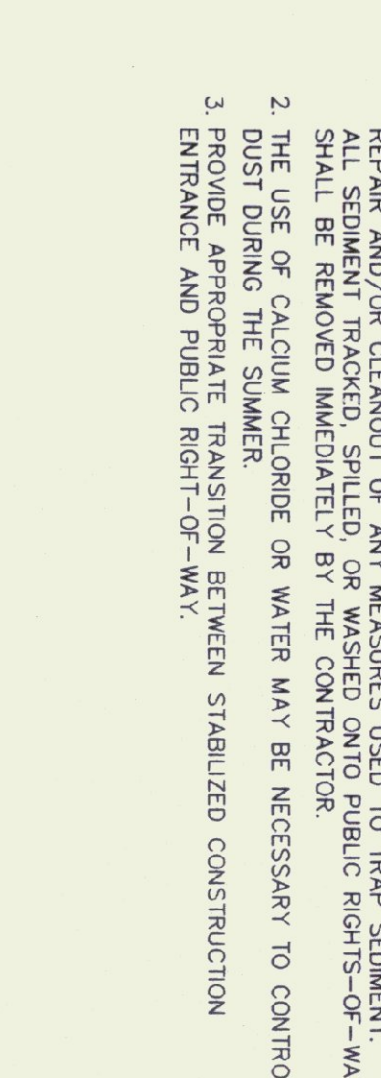
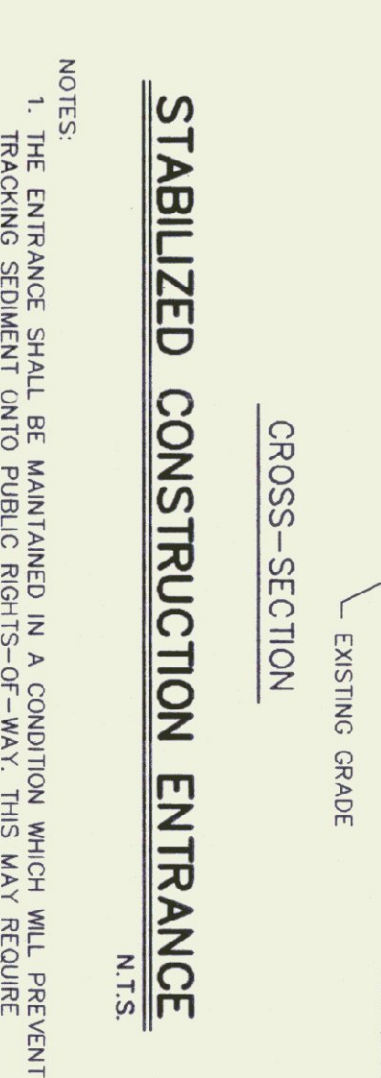
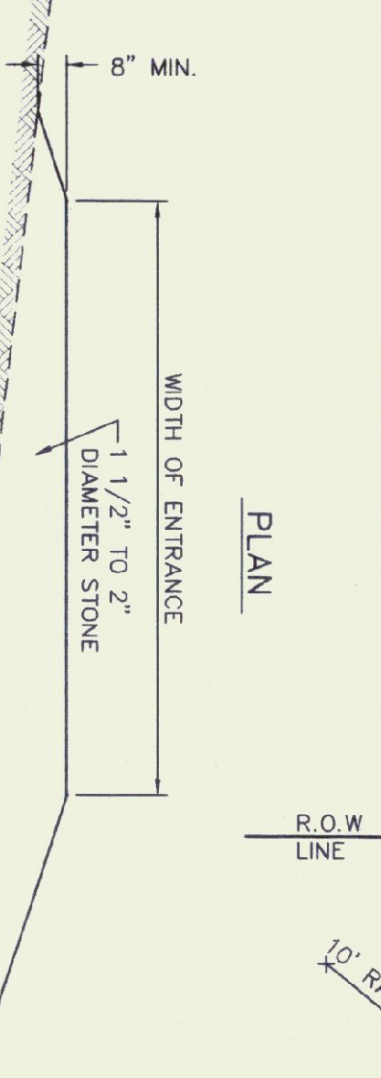
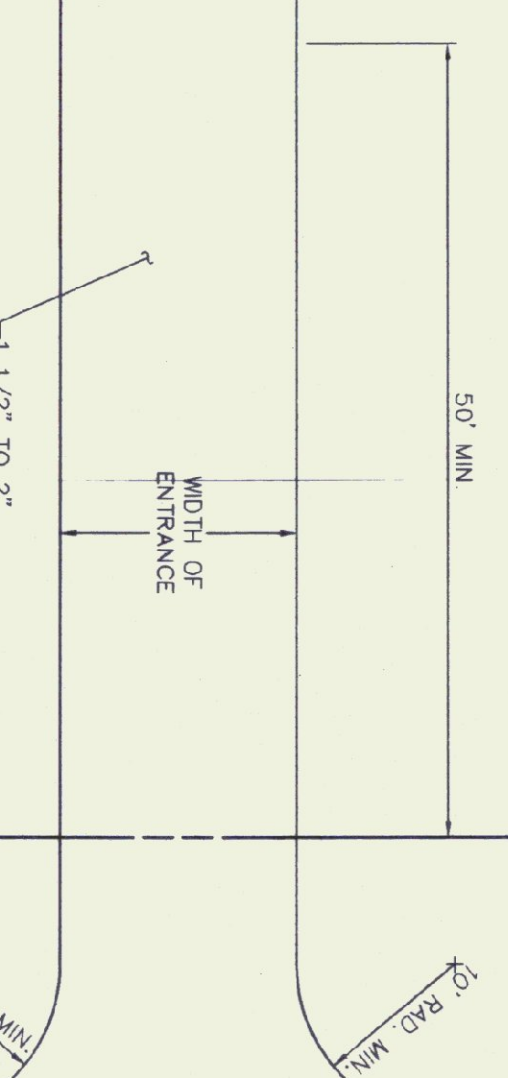
STONE CHECK DAM STRUCTURE



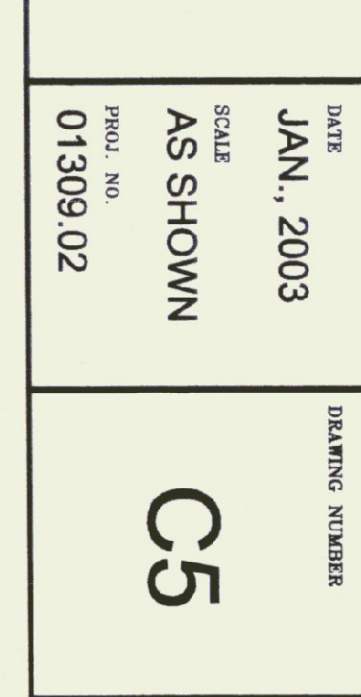
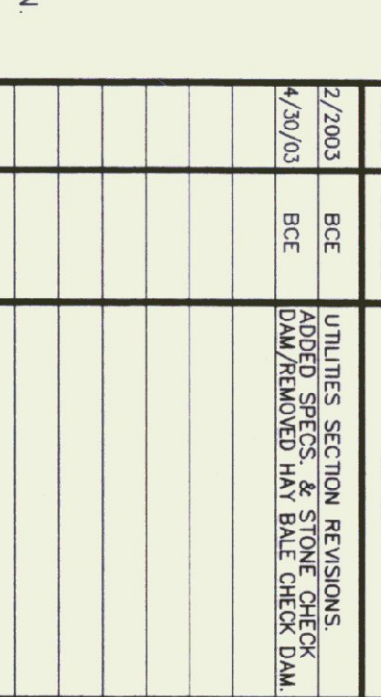
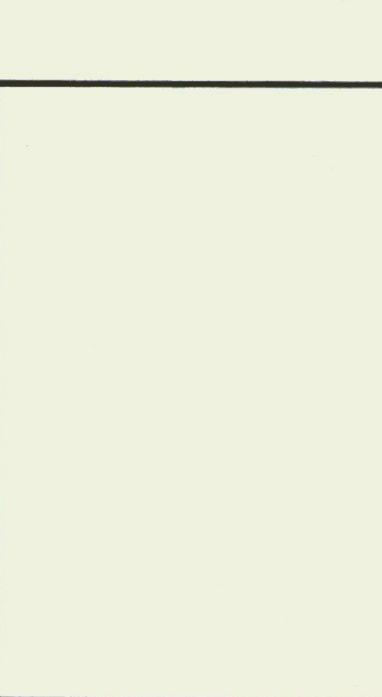
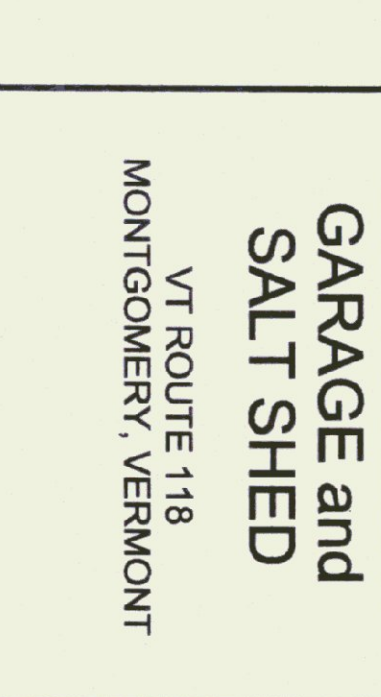
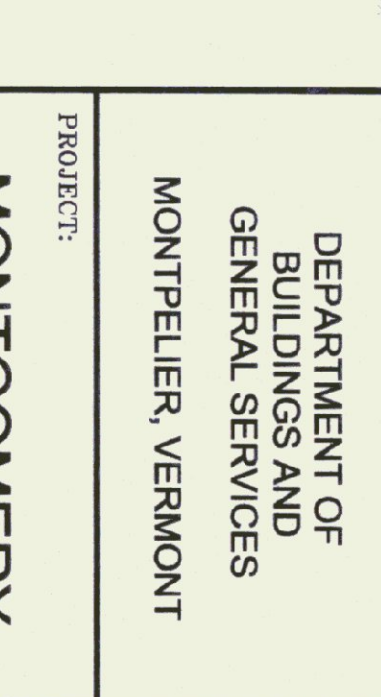
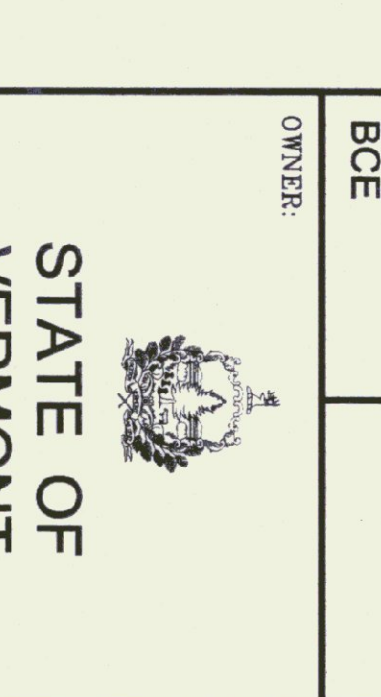
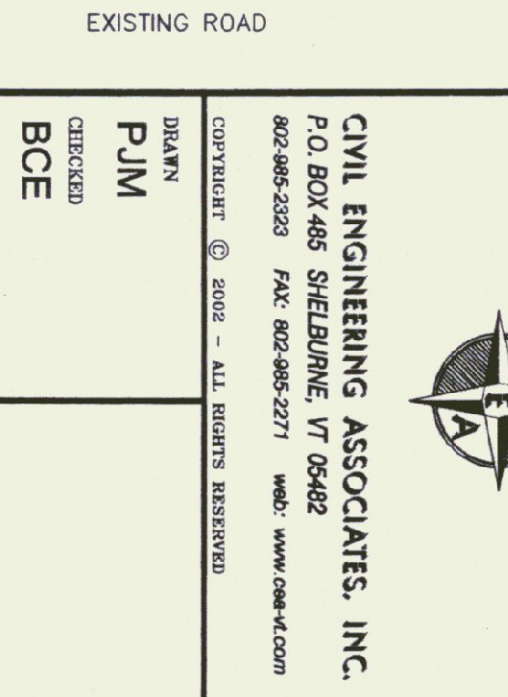
SILT FENCE CONSTRUCTION DETAIL



SILT FENCE DETAIL



STABILIZED CONSTRUCTION ENTRANCE



GRASS LINED DITCH



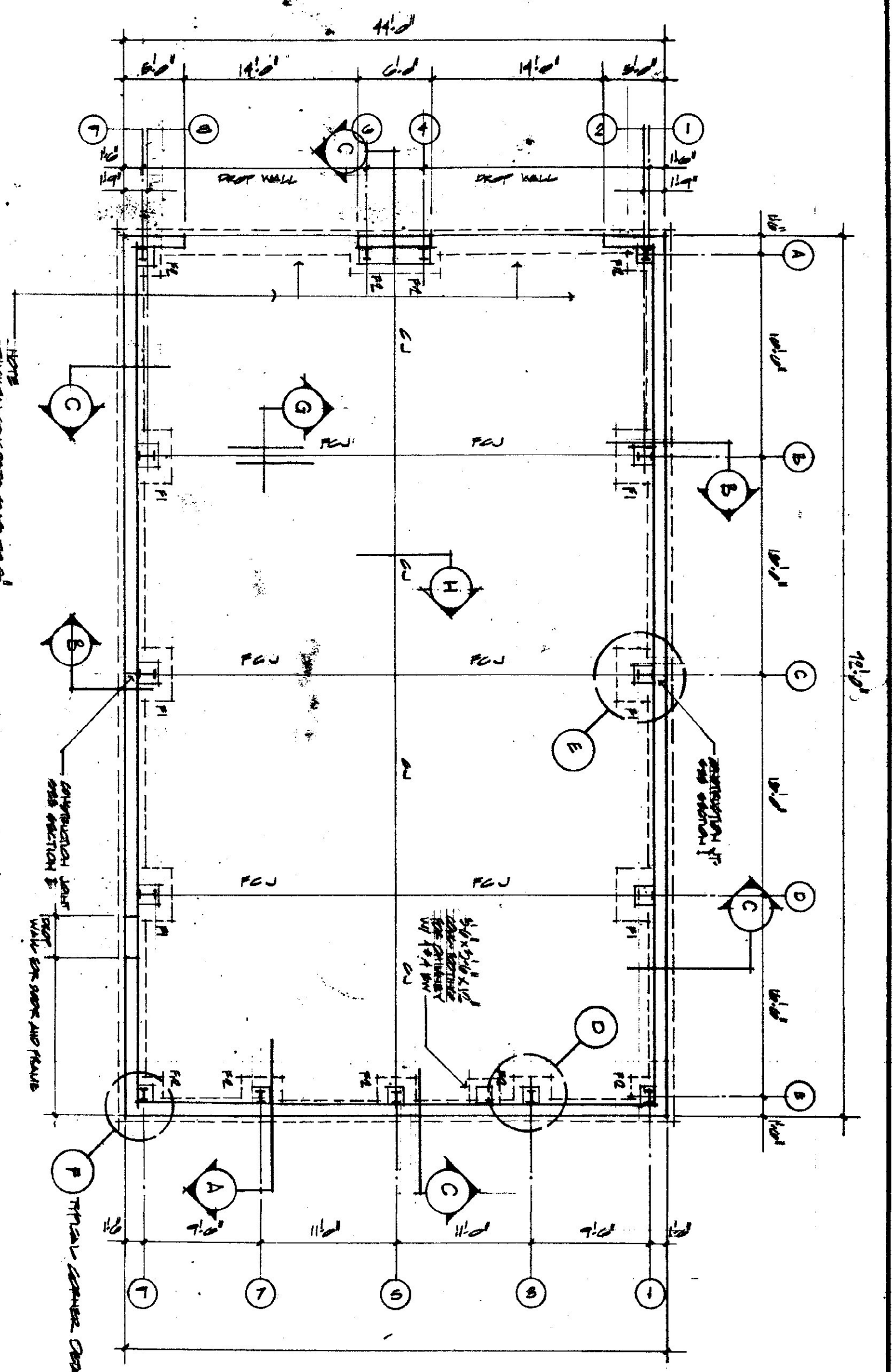
PLUNGE POOL DETAIL

TEMPORARY STOCKPILE DETAIL

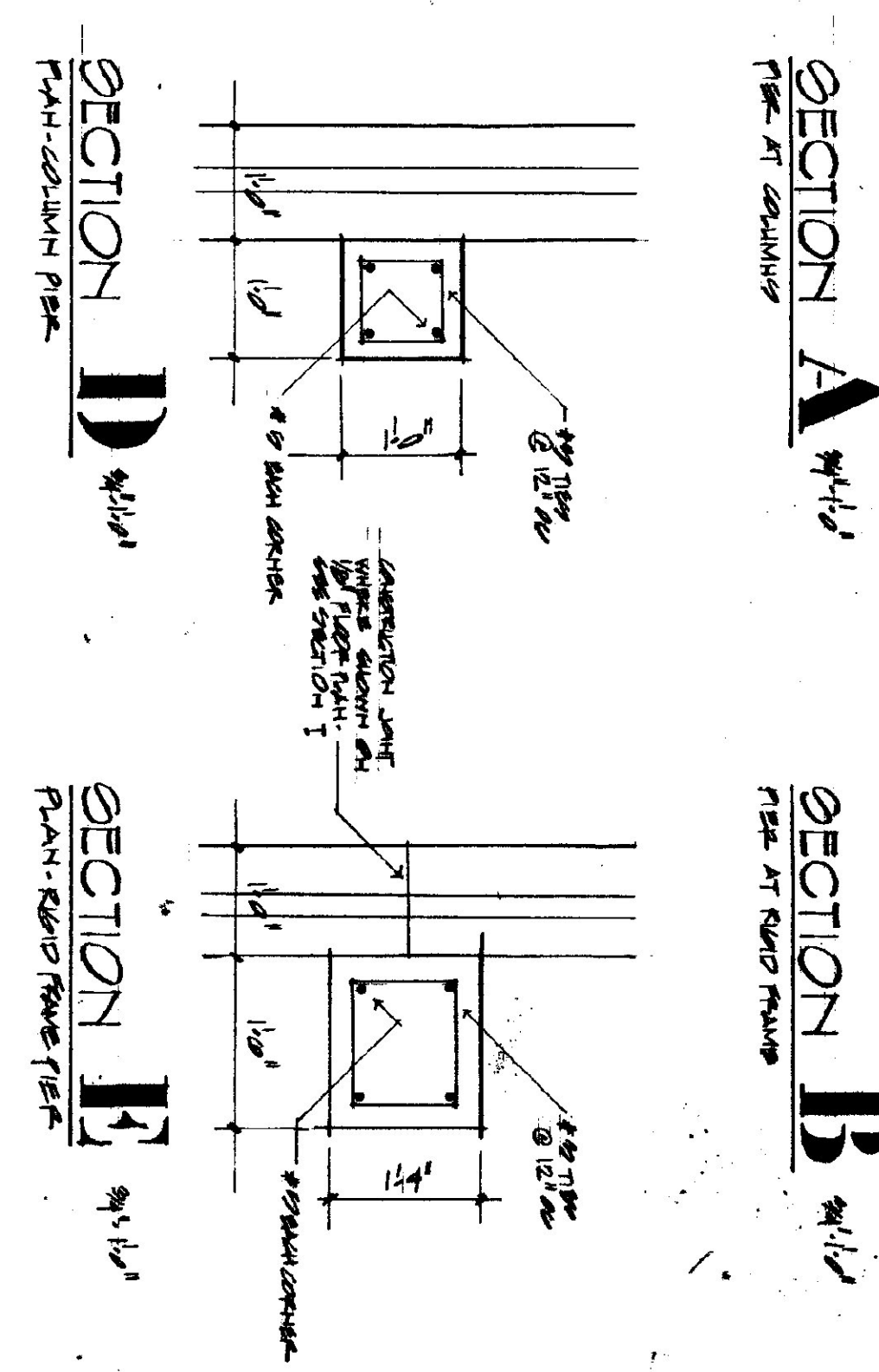
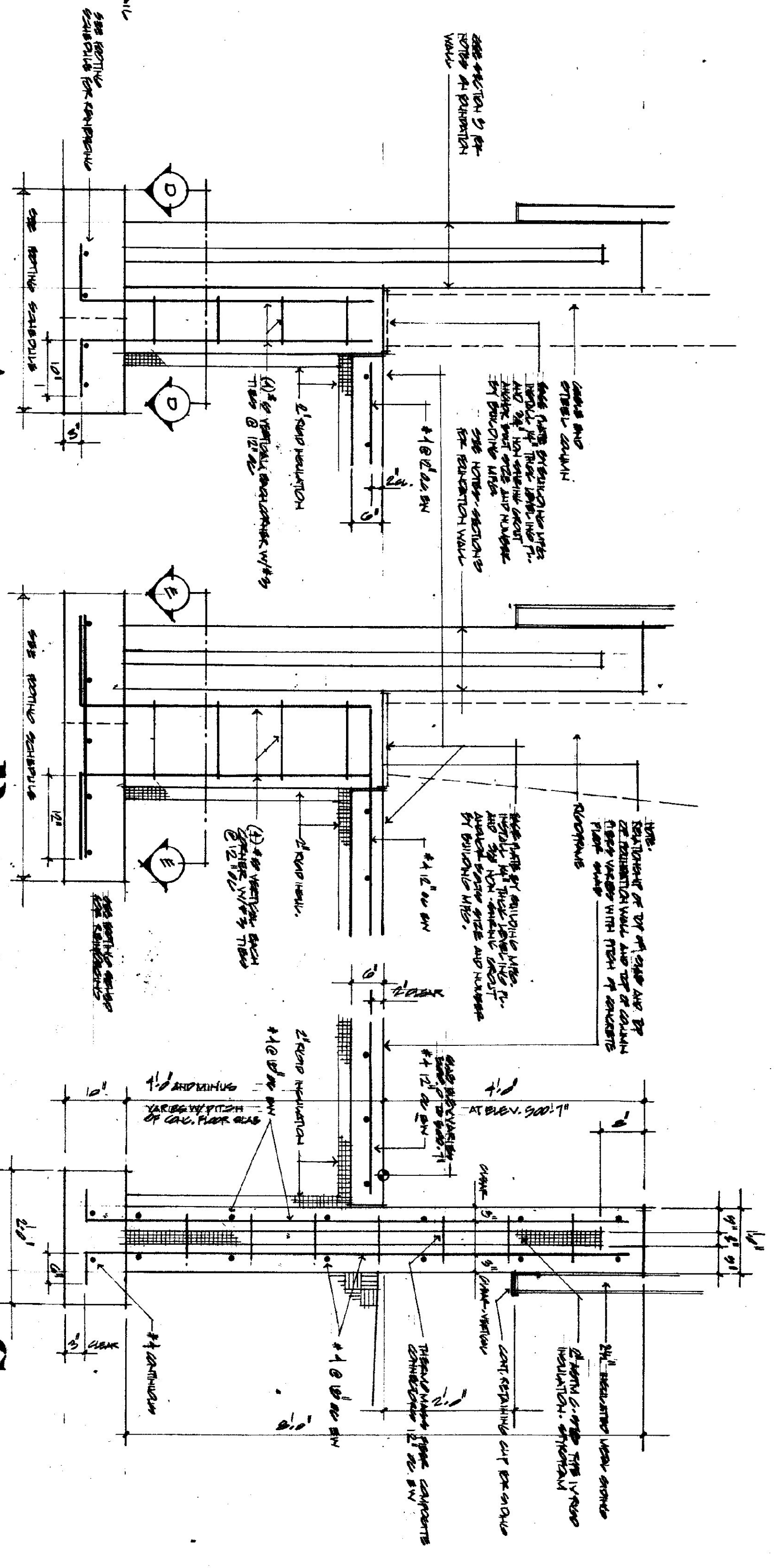
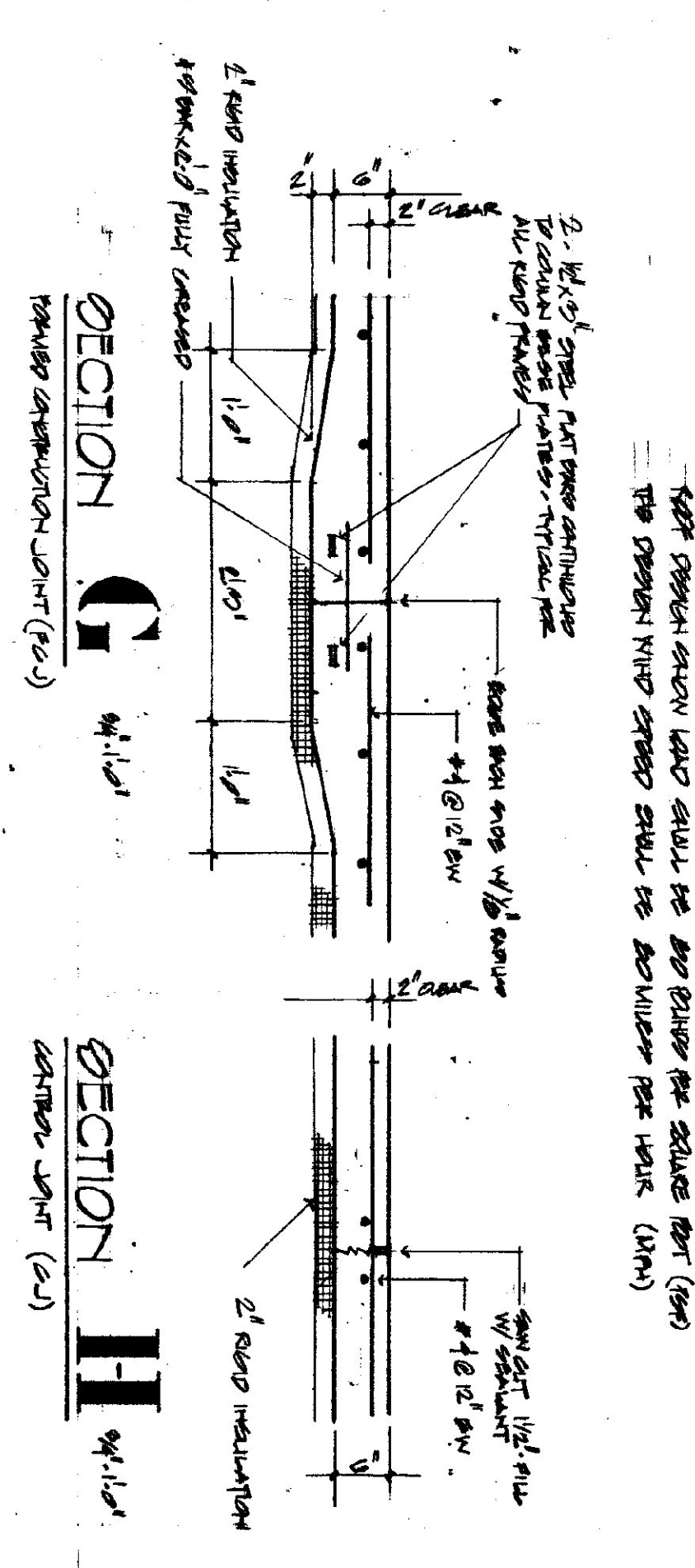
SEDIMENT CONTROL TRAP DETAIL

CATCH BASIN

INLET PROTECTION

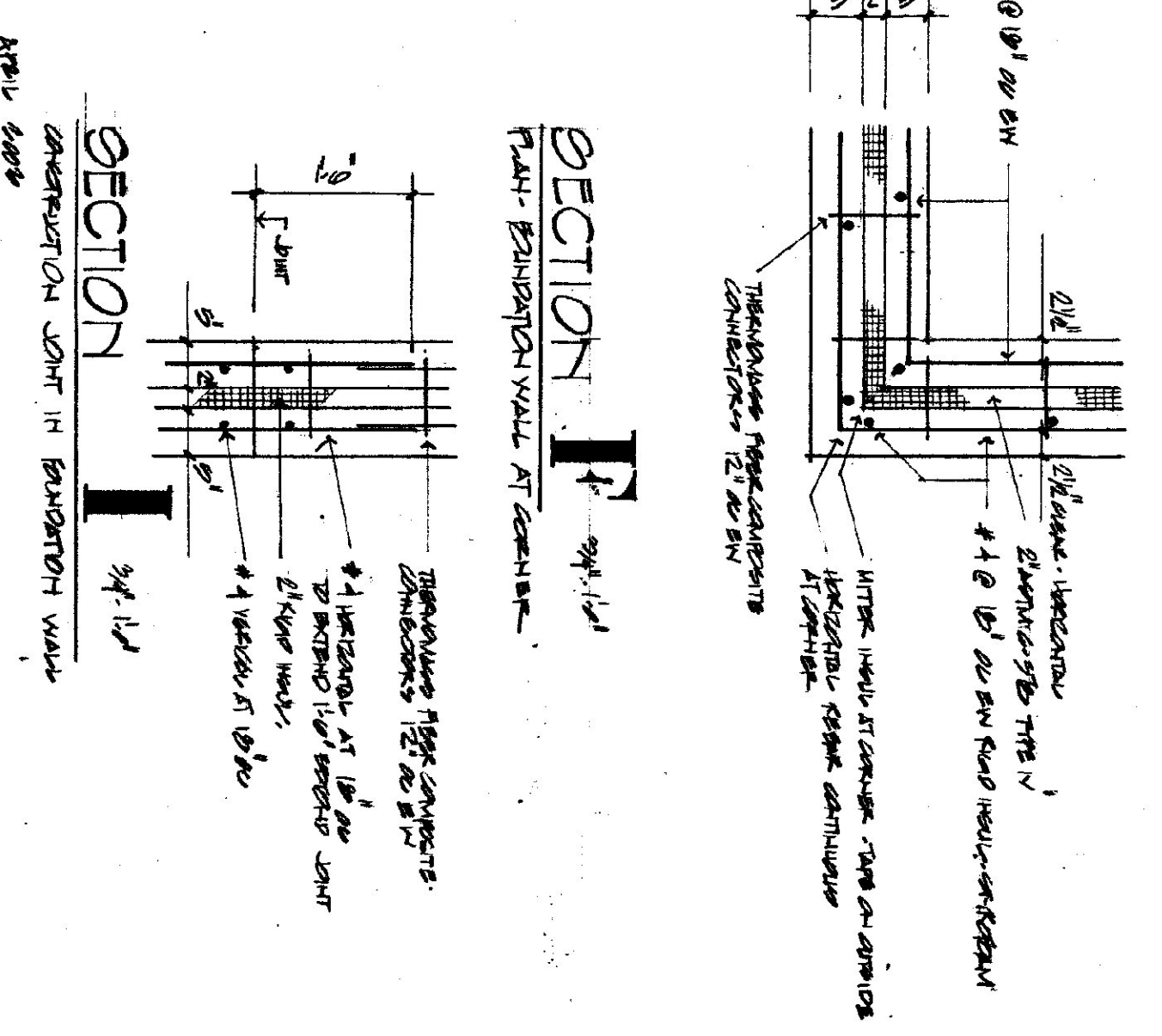


FOUNDATION PLAN 1/4" = 1'-0"



NOTE
 THE FOUNDATION DESIGN ASSUMES TYPICAL FOUNDATION LOADS FROM AVERAGE TO HEAVY DUTY TRUCKS. THE DESIGN SHALL BE FOR A RIGID FRAME. THE DESIGNER SHALL VERIFY THE FOUNDATION DESIGN WITH THE LOCAL BUILDING DEPARTMENT. THE FINAL DESIGN SHALL BE SUBJECT TO APPROVAL BY THE LOCAL BUILDING DEPARTMENT.

NO.	DESCRIPTION	QUANTITY	UNIT
1	FOOTING	10	LINEAL FEET
2	FOUNDATION WALL	10	SQUARE FEET
3	FOUNDATION WALL	10	SQUARE FEET
4	FOUNDATION WALL	10	SQUARE FEET



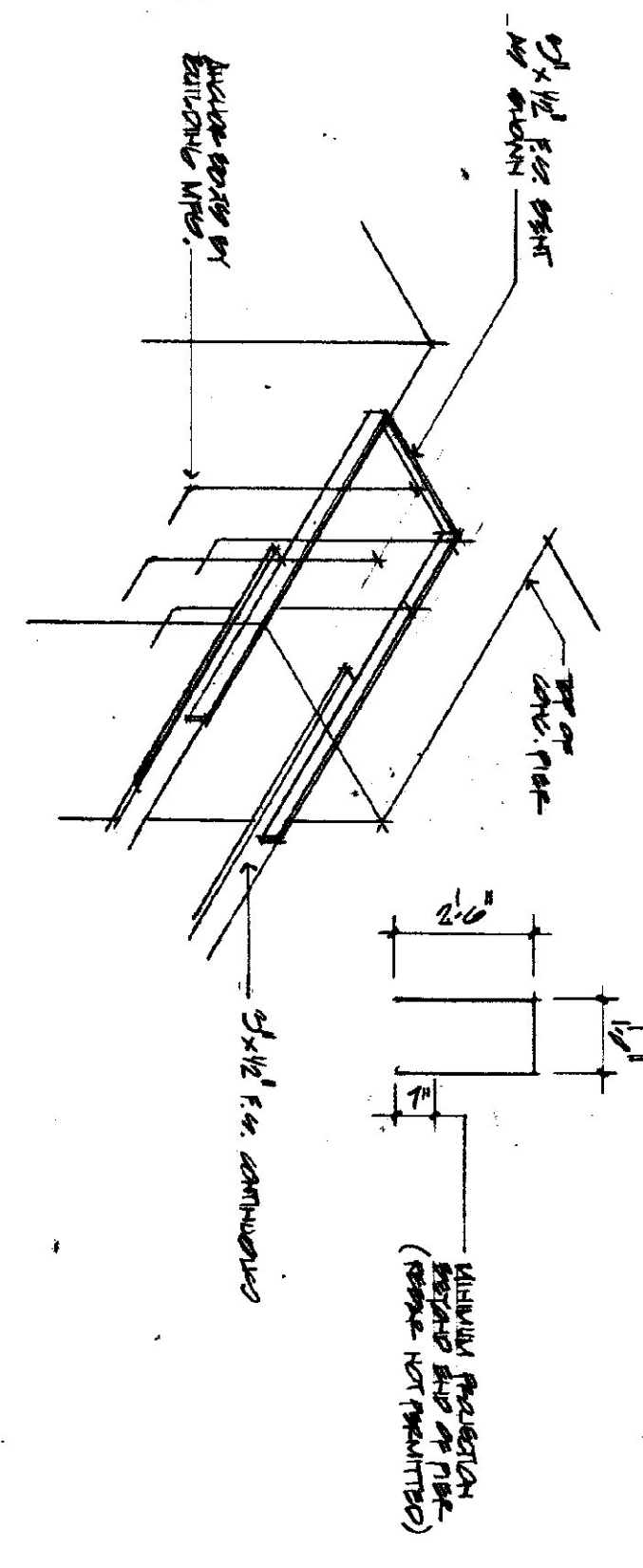
REGISTERED ARCHITECT
 CHARLES E. METZ
 ARCHITECT
 100 STATE STREET
 BRADFORD, VT 05033

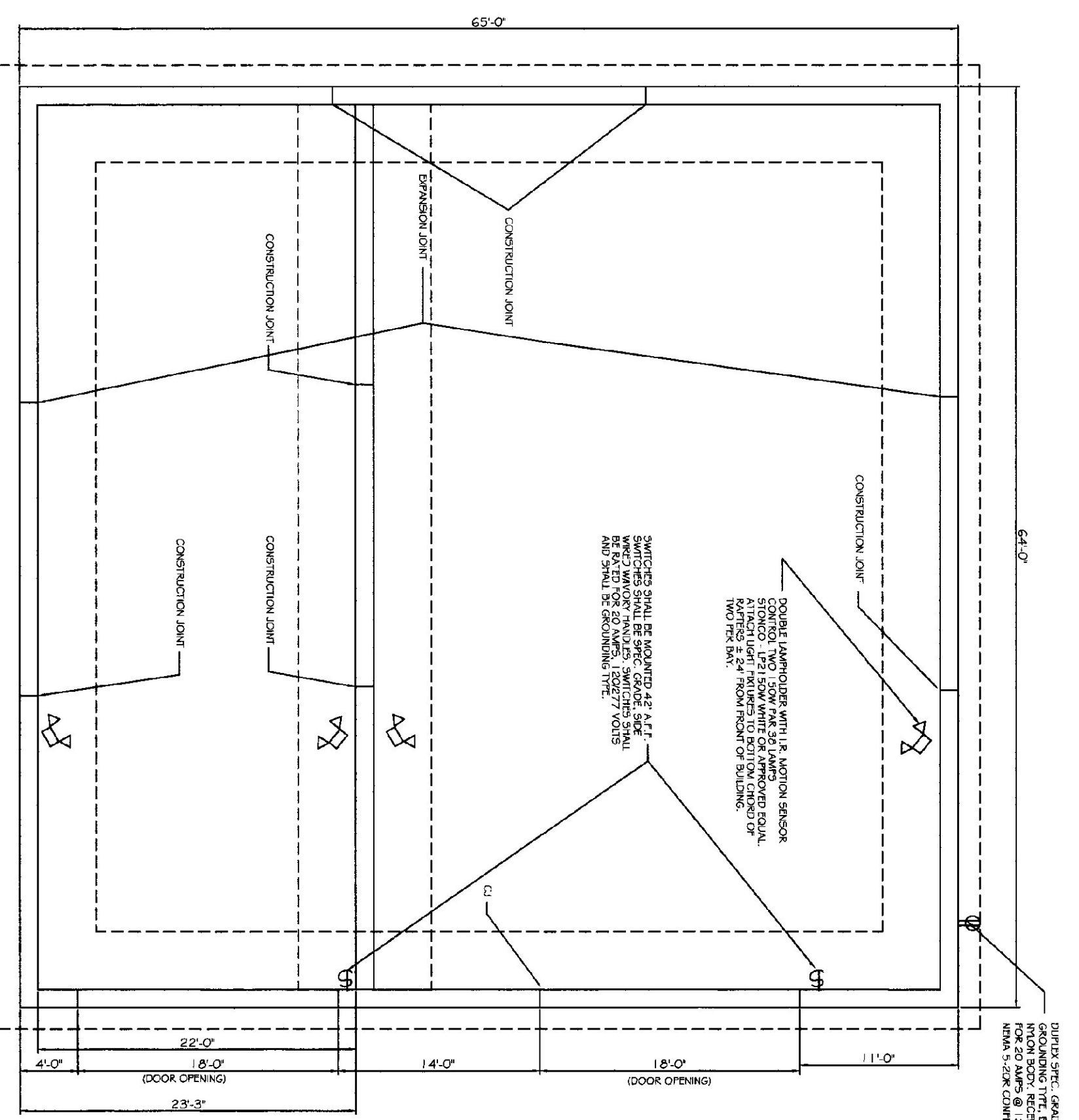
PROJECT:
 MONTGOMERY GARAGE AND GAIT SHED
 100 STATE STREET
 BRADFORD, VT 05033

TITLE:
 FOUNDATION AND DETAILS

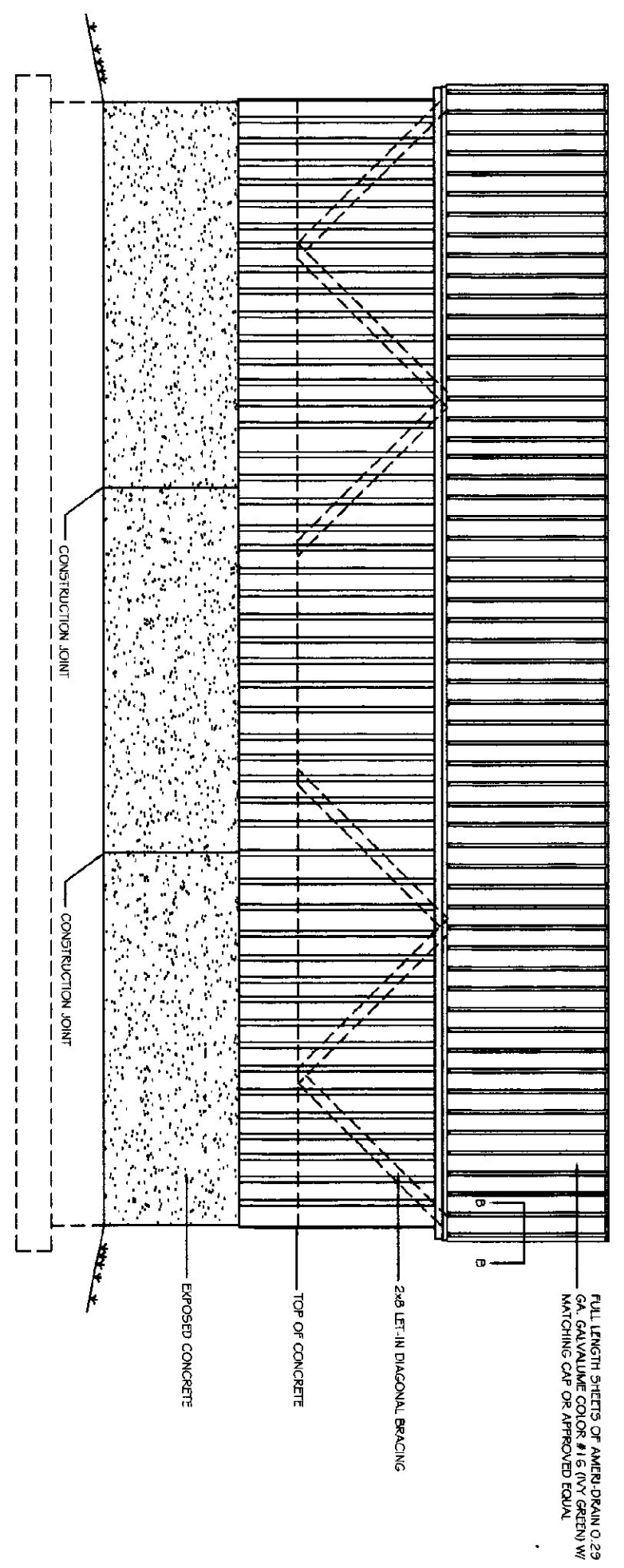
DRAWING:
 A1

ISOMETRIC HARPIN TIE AT RIGID FRAMES
 NOT TO SCALE

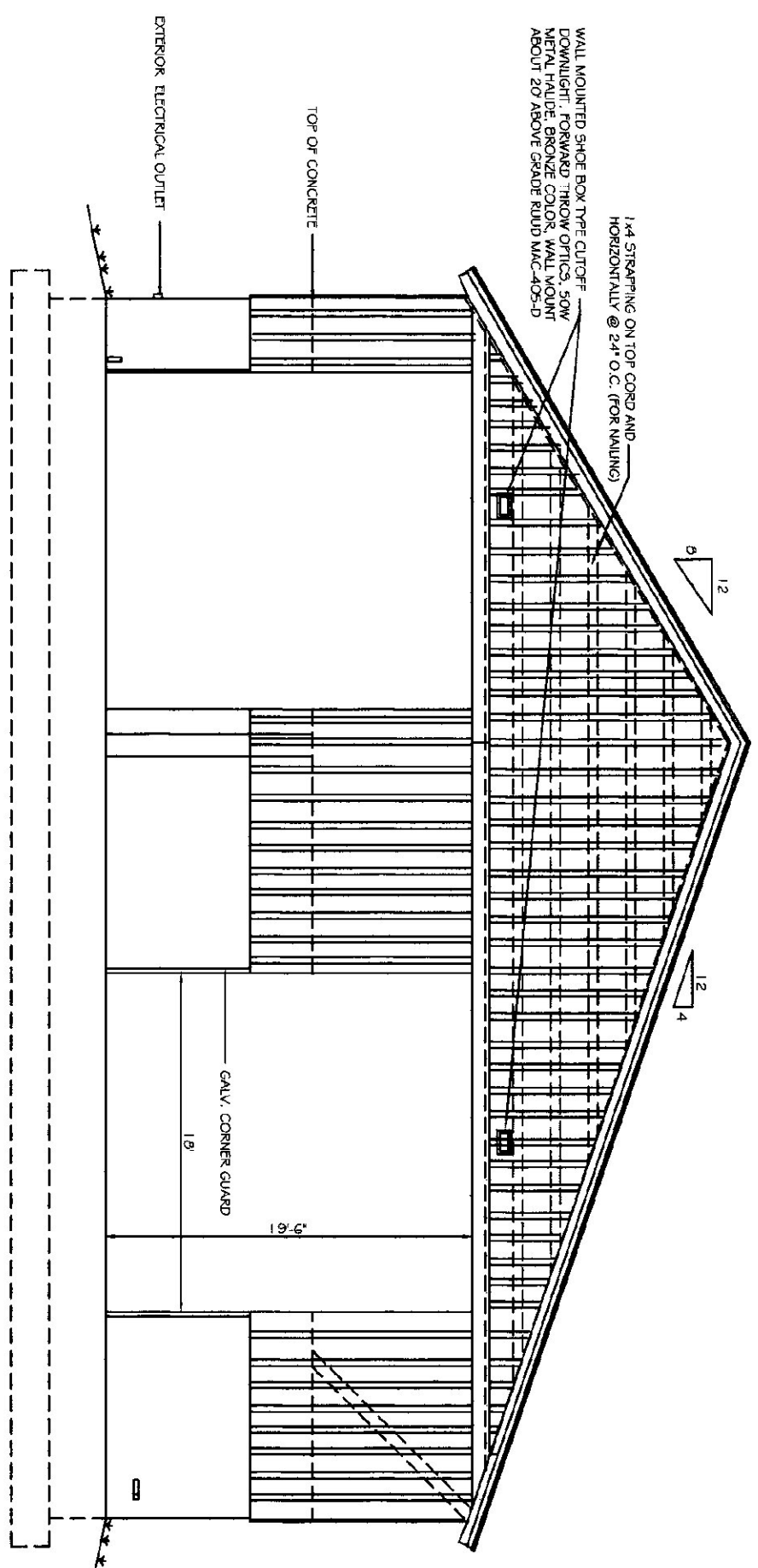




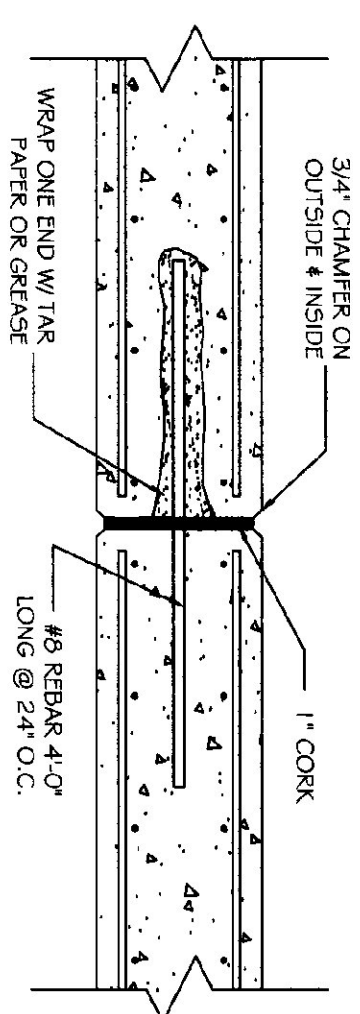
FOUNDATION PLAN
SCALE: 1/8" = 1'-0"



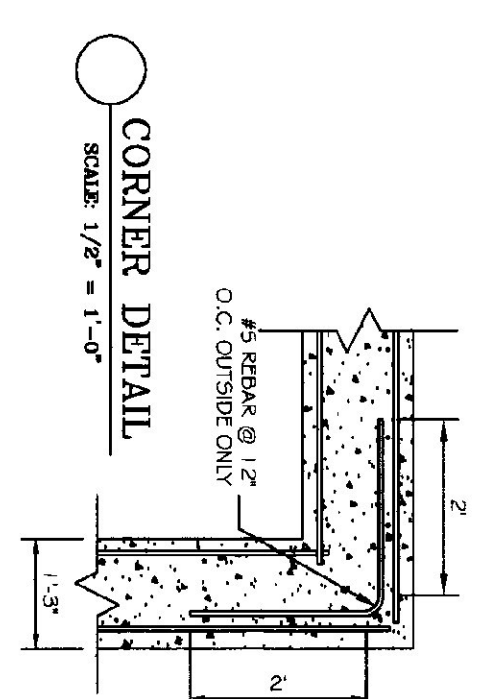
SIDE ELEVATION
SCALE: 1/8" = 1'-0"



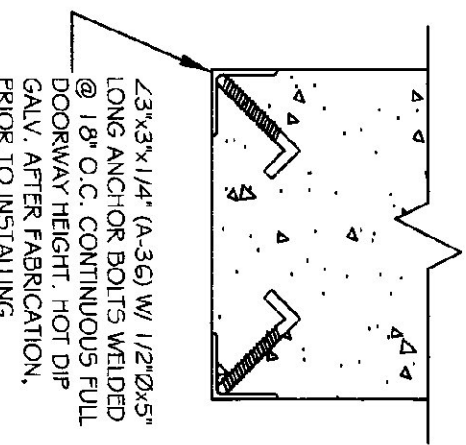
FRONT ELEVATION
SCALE: 1/8" = 1'-0"



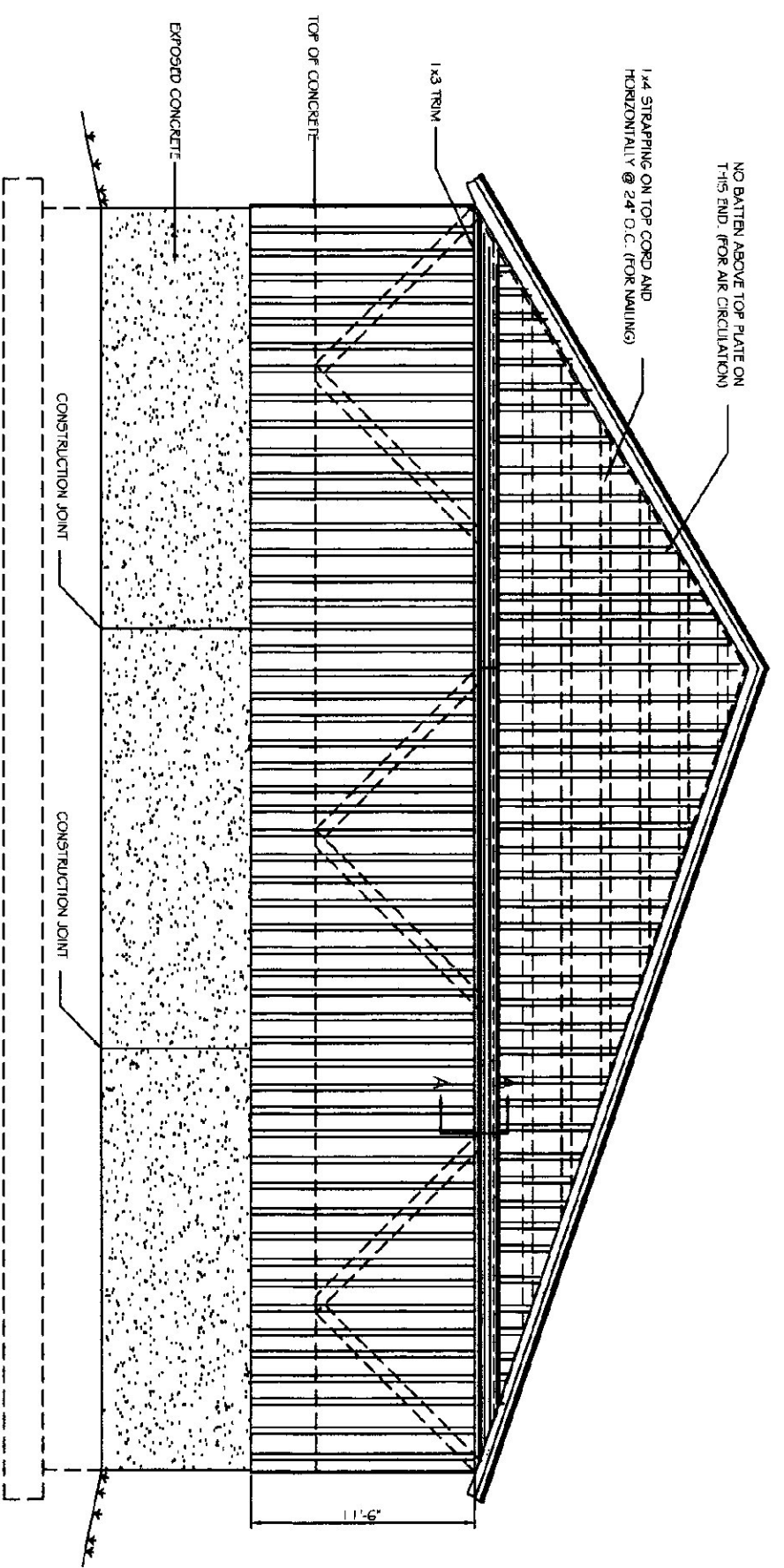
EXPANSION JOINT DETAIL
SCALE: 3/4" = 1'-0"



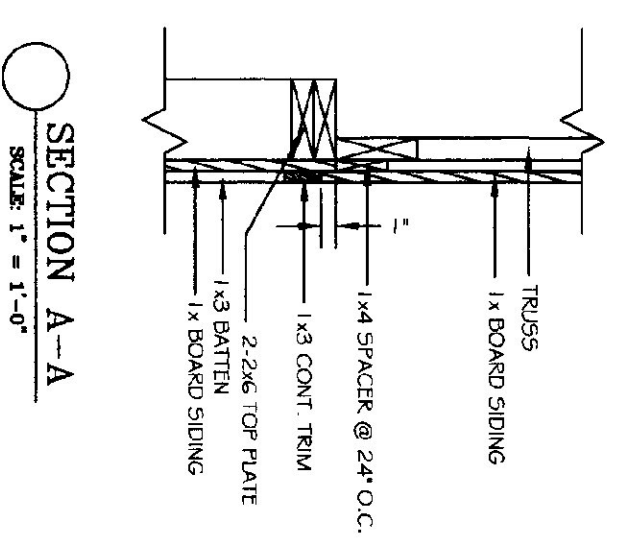
CORNER DETAIL
SCALE: 1/8" = 1'-0"



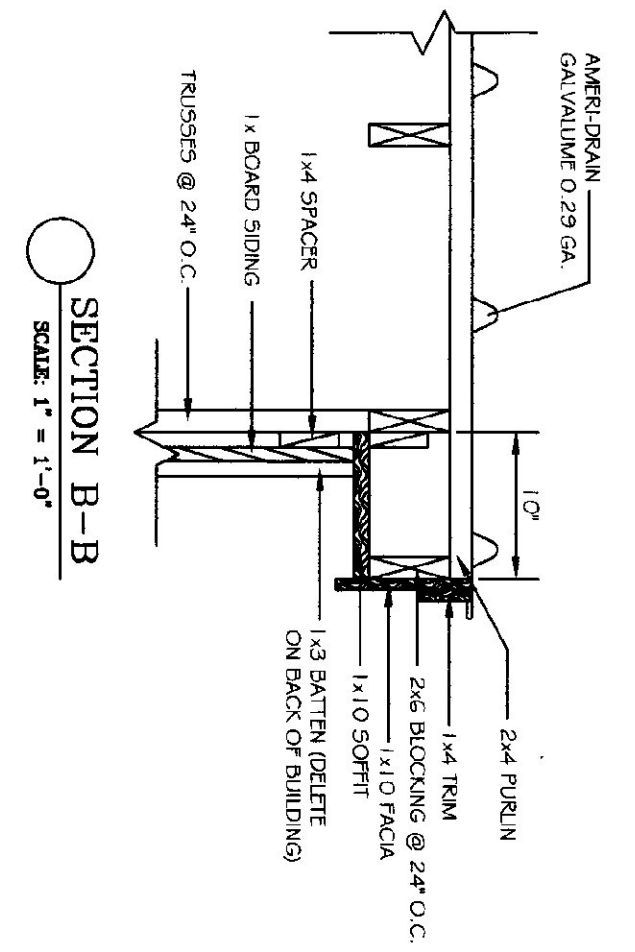
CORNER GUARD DETAIL
SCALE: 1-1/2" = 1'-0"



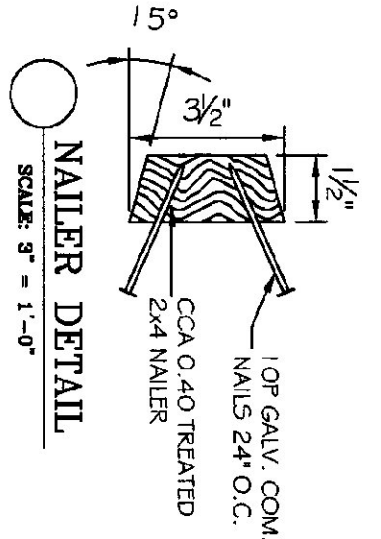
BACK ELEVATION
SCALE: 1/8" = 1'-0"



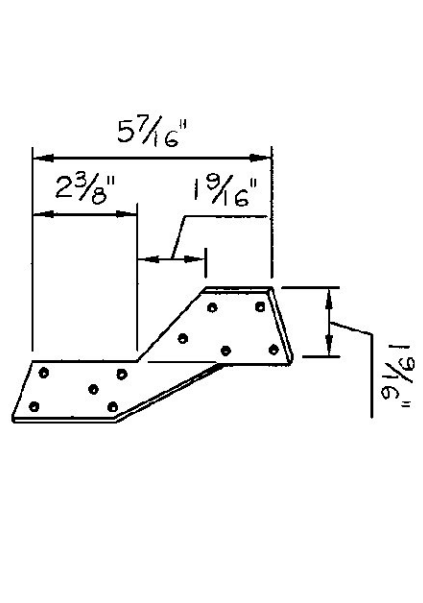
SECTION A-A
SCALE: 1" = 1'-0"



SECTION B-B
SCALE: 1" = 1'-0"



NAILER DETAIL
SCALE: 3" = 1'-0"



HURRICANE CLIP DETAIL
SCALE: 3" = 1'-0"

GENERAL NOTES:
 ALL MATERIALS TO BE FURNISHED BY THE CONTRACTOR.
 ALL PROPOSED METAL, EXCEPT GALVANIZED CORNER ANGLES, DOOR CURBS, BRACKETS, ETC. SHALL BE FINISHED 1/8" THICK ALUMINUM OR OVER WITH AN ANTI-CORROSION FINISH.
 ALL ELECTRICAL WORK SHALL COMPLY WITH N.E.C.
 ALL PLUMBING AND BOARD A BATTEN SINGING MATERIALS SHALL BE INSTALLED USING APPROXIMATE 1/2" SPACED GALVANIZED NUTS AND BOLTS AND ACCORDING TO MANUFACTURER'S INSTRUCTIONS.
 ALL ROOFING WORK, BACK-FILL MATERIAL, FLOOR MATERIAL, ETC. TO BE SUBMITTED TO THE LOCAL SOIL TESTER.
 ROOFING COOK - (VY GREEN (AMER. DRUM))

TRUSS NOTES:
 TRUSS MANUFACTURER TO SUBMIT TO THE RESIDENT ENGINEER A FULL SET OF ENGINEERED AND STAMPED DRAWINGS FOR APPROVAL PRIOR TO TRUSS MANUFACTURE.
 TRUSS MANUFACTURER TO PROVIDE THE CONTRACTOR WITH ALL THE NECESSARY INSTRUCTIONS FOR PROPER TRUSS INSTALLATION, ANCHORAGE, BRACING, LIFTING, ETC.
 TRUSS DESIGN IN ACCORDANCE WITH THE 1987 B.O.C.A. FOR VERMONT MINIMUM LOADS.
 LIVE - 40 P.S.F. - PER 1994 VERMONT FIRE PROTECTION CODE
 DEAD - AS CALCULATED FROM TRUSSES AND ROOF MATERIALS AND IN ADDITION 5 P.S.F. ON BOTTOM CHORDS.
 WIND - 25 P.S.F.
 DIAGONAL BRACING PER TRUSS MANUFACTURER AND PER MINIMUM TRUSS BRACING DETAIL IN SPECIFICATIONS.

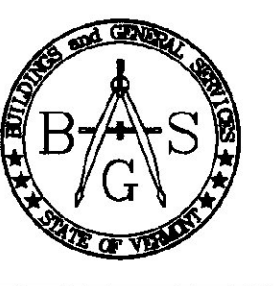
LUMBER NOTES:
 FRAMING MEMBERS TO BE KILN DRIED CONSP. GRADE SPRUCE 54S MAX. 19% MOISTURE CONTENT.
 PLATES & NAILS IN CONTACT WITH CONCRETE TO BE CCA 0.40 PRESSURE TREATED.
 BOARD & BATTEN SINGING TO BE WATER RESISTANT BOARD (W.R.B.) SPRUCE, WHITE PINE, OR RED PINE. BOARDS TO BE RANDOM WIDTH 8"-12" - BATTEN WIDTH 3".
 BOARD SINGING & STRIPS TO BE FULL LENGTH (NO HORIZONTAL JOINTS). SINGING TO BE KILN DRIED TO MAX. 19% MOISTURE CONTENT BEFORE STAIN IS APPLIED.
 ALL FASTENERS TO BE GALVANIZED.

FINISH NOTES:
 ROOFING COLOR: AMERIBRAIN IV GREEN
 ALL ROOFING & BATTEN TO BE STAINED WITH ONE COAT ON ALL SURFACES PRIOR TO INSTALLATION.
 AFTER INSTALLATION EXTERIOR SINGING TO RECEIVE ONE (1) ADDITIONAL COAT OF STAIN. STAIN TO BE SHERMAN WILKINS OXFORD BROWN OR EQUAL. FIRST COAT WILL BE SHARPTON PINK & THE SECOND COAT WILL BE HIGH TONER STAIN.

CONCRETE NOTES:
 CONCRETE TO BE CLASS "B" PER A.O.T. STANDARD SPECIFICATION TABLE 501.03A WITH 5 # 1/2" x 19.48 ENVIROMENT, AND 2-4" SLUMP.
 1/2" x 19.48 ENVIROMENT, AND 2-4" SLUMP.
 GALVANIZED L IRON CAST INTO WALL CORNERS AT DOOR OPENINGS.
 REBAR TO BE CONTINUOUS THROUGH CONSTRUCTION JOINTS.
 NO HORIZONTAL CONSTRUCTION JOINTS IN WALLS - CONTINUOUS FORM.
 NO CONSTRUCTION OR EXPANSION JOINTS REQUIRED IN FLOORS.
 CONTRACTOR TO LEAVE NO REBAR WITHIN 1" OF SURFACE. USE 1/2" DEEP PLASTIC CONES AT ALL TIES AND FLAG ALL THE HOLES WITH AN APPROVED NON-SHRINK GROUT.
 ALL REBAR TO BE GRADE SO W/ 3" CLEARANCE ON ALL SIDES (UNLESS NOTED OTHERWISE).
 REBAR TO BE STICED ON BLOCKING 4" MINIMUM ABOVE GROUND.
 CONCRETE SUPPLIER TO PROVIDE TEST CHIPS FOR CONCRETE TESTING.
 ALL CONCRETE TESTING TO BE DONE BY OWNER. CONTRACTOR IS RESPONSIBLE FOR SCHEDULING.
 EXPOSED WALLS TO HAVE FORM JOINT RIDGES, TIE HOLES, AND CAVITIES DRESS FINISHED PER A.O.T. STANDARD SECTION 501.16.
 WALL FORMS SHALL BE LEFT IN PLACE FOR 72 HOURS MINIMUM.
 FORMING FORMS SHALL REMAIN IN PLACE FOR 24 HOURS MINIMUM.
 CONCRETE CURING SHALL FOLLOW IMMEDIATELY AFTER FORM REMOVAL PER A.O.T. STANDARD 501.17. WATER CURING WILL BE REQUIRED, UNLESS ALTERNATE MEANS OF CURING IS APPROVED IN WRITING, BY THE PROJECT ENGINEER.



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



AGENCY OF TRANSPORTATION
 MONTGOMERY 65' X 64' SALT SHED
 PLANS AND DETAILS
 MONTGOMERY VERMONT

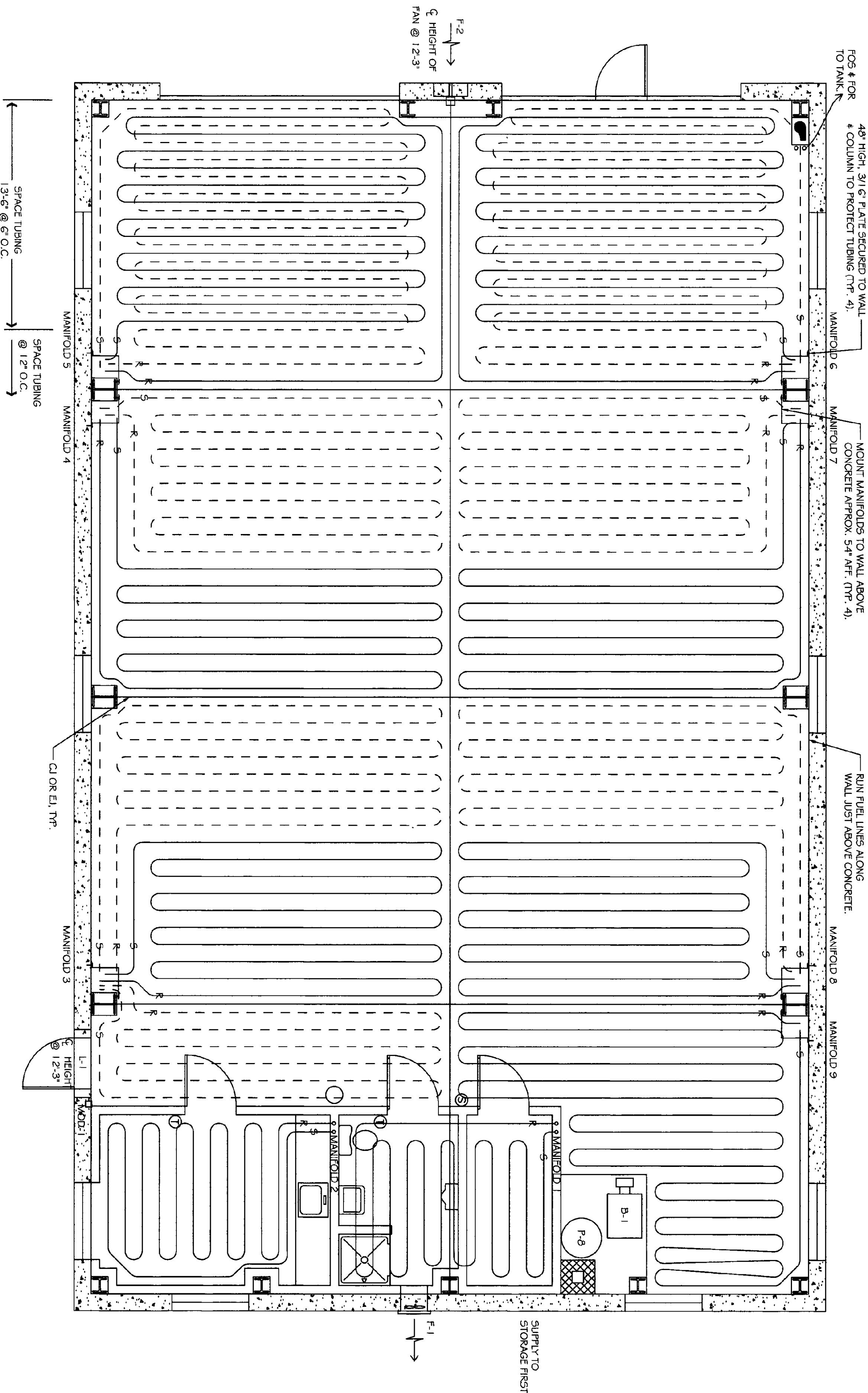
REVISIONS

SCALE: AS NOTED
 DATE: MAY 2003
 DRAWN BY: K. ROUELLE
 APPR. BY: R. BARRY

AGENCY OF TRANSPORTATION
 65' X 64'
 SALT SHED
 MONTGOMERY

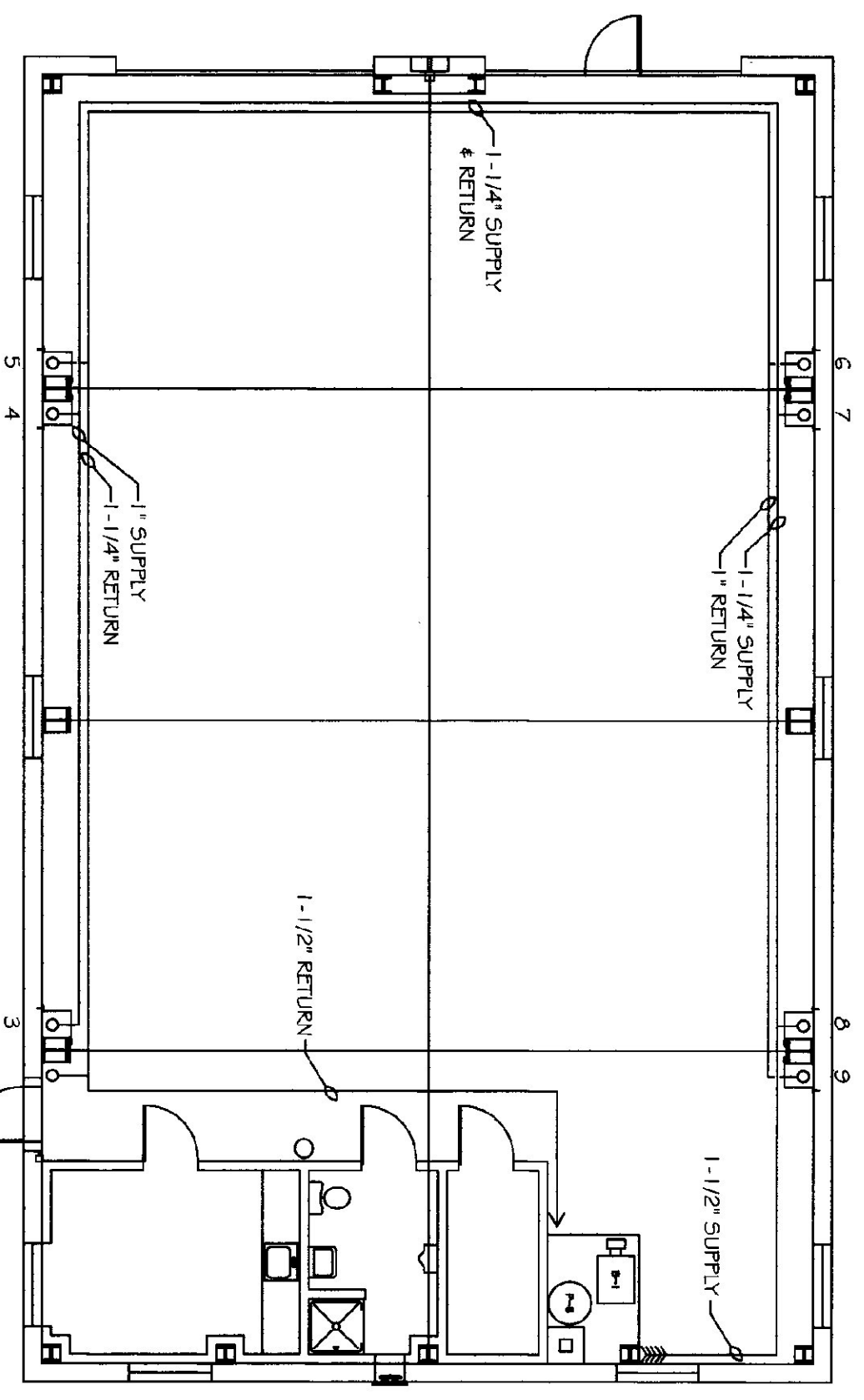
S-1

1 OF 2



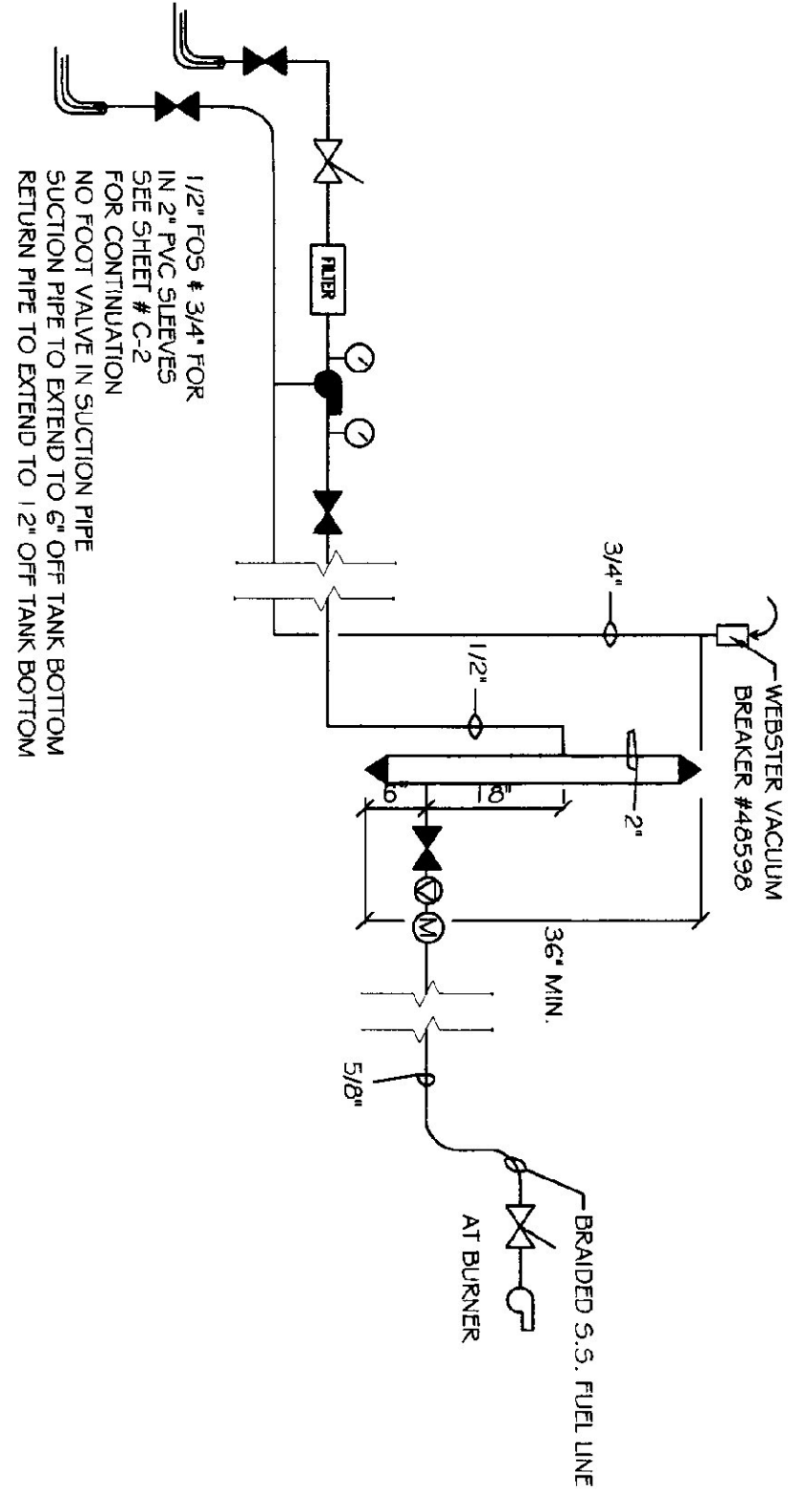
MANIFOLD #	LOCATION	RADIANT LOOP #	AREA SERVED	TUBE SIZE	TUBE LENGTH (IN FLOOR)	GPM	ΔT	WATER FLOOR TEMP (SURFACE)	BTU/H	VALVE 1/2 TUBES	
1	STORAGE	1	STORAGE	5/8"	113	0.5	22	103/97	73,671.8	5635	4.00
2	OFFICE	2	OFFICE	5/8"	117	1.4	3.3	105	76	61.7	4.00
3	GARAGE	3	GARAGE	5/8"	125	1.0	2.0	92	78.6	36.6	2.78
3	GARAGE	4	GARAGE	5/8"	189	1.5	5.7	92	78.6	36.6	4.00
3	GARAGE	5	GARAGE	5/8"	180	1.4	5.1	92	78.6	36.6	3.83
4	GARAGE	6	GARAGE	5/8"	181	1.4	5.1	92	78.6	36.6	3.83
4	GARAGE	7	GARAGE	5/8"	189	1.5	5.7	92	78.6	36.6	4.00
5	GARAGE	8	GARAGE	5/8"	276	2.2	17	92	78.6	36.6	3.92
5	GARAGE	9	GARAGE	5/8"	283	2.2	17	92	78.6	36.6	4.00
6	GARAGE	10	GARAGE	5/8"	283	2.2	17	92	78.6	36.6	4.00
6	GARAGE	11	GARAGE	5/8"	278	2.2	17	92	78.6	36.6	3.92
7	GARAGE	12	GARAGE	5/8"	189	1.5	5.7	92	78.6	36.6	4.00
7	GARAGE	13	GARAGE	5/8"	181	1.4	5.1	92	78.6	36.6	3.83
8	GARAGE	14	GARAGE	5/8"	180	1.4	5.1	92	78.6	36.6	3.83
8	GARAGE	15	GARAGE	5/8"	189	1.5	5.7	92	78.6	36.6	4.00
9	GARAGE	16	GARAGE	5/8"	250	1.9	11.0	92	78.6	36.6	4.00

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

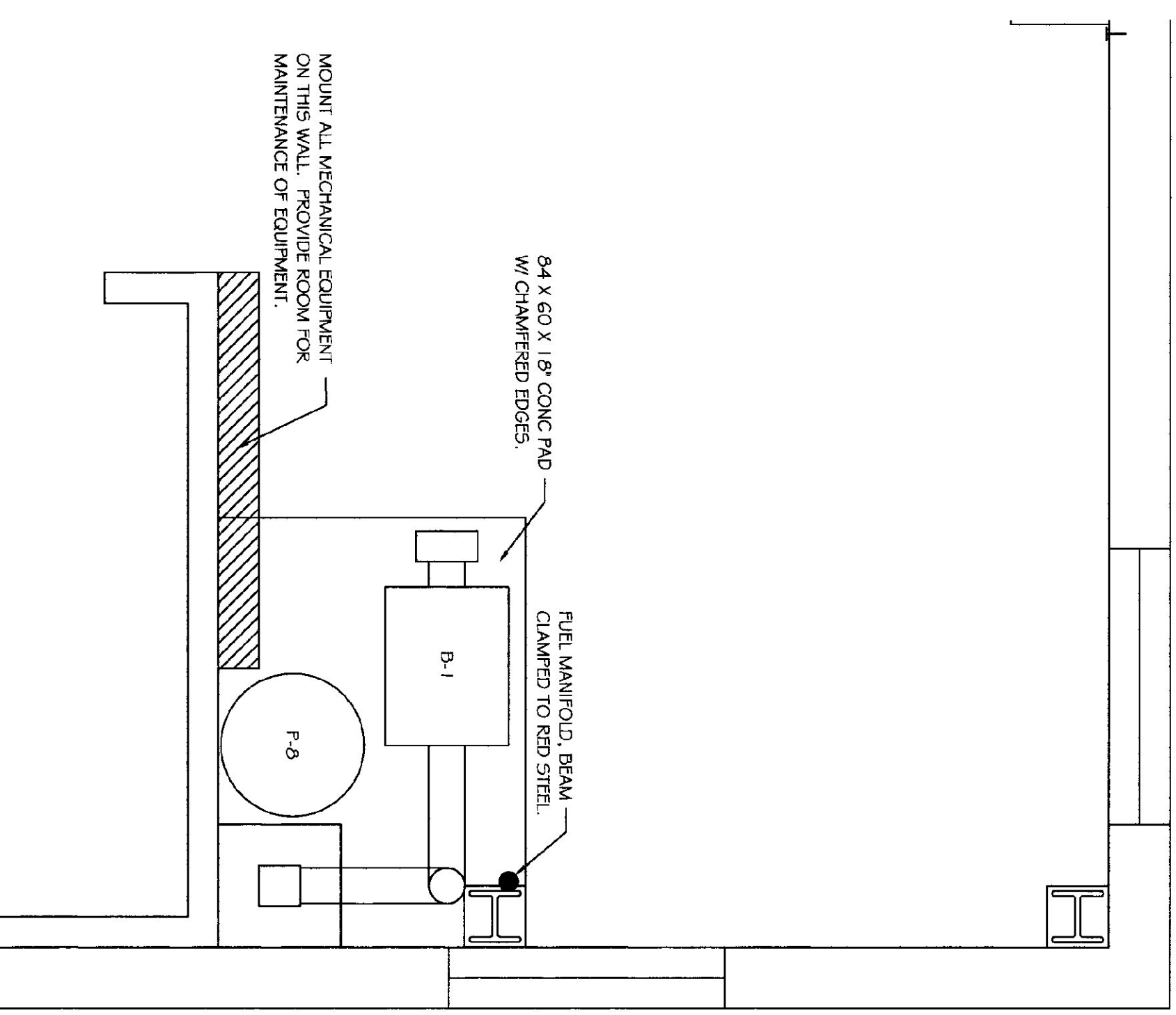


PIPING PLAN
SCALE: 1/8" = 1'-0"

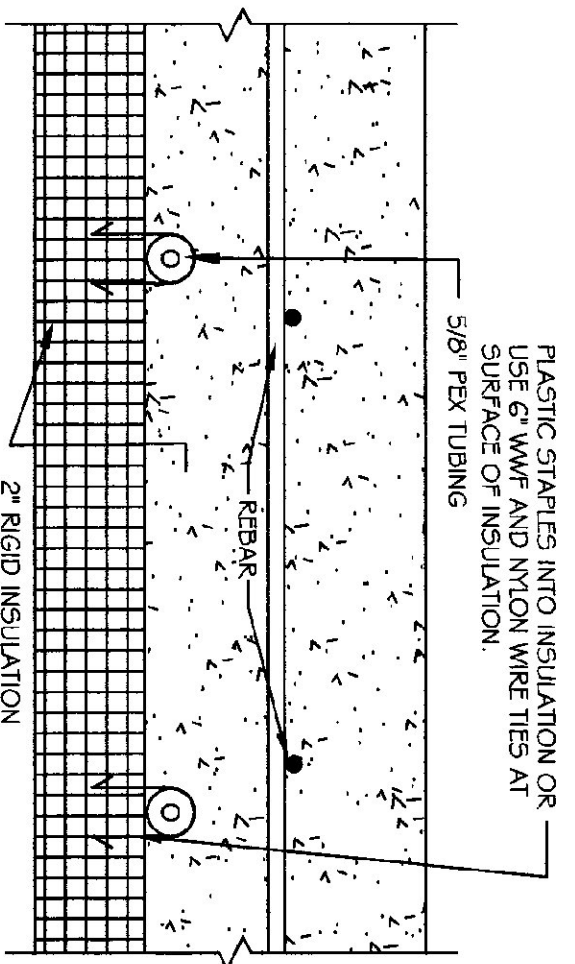
- NOTES:
1. TUBING BENDS TO BE RADIUS, 6" MINIMUM.
 2. DEVIATION FROM LAYOUT SHALL BE SUBMITTED FROM TUBING MANUFACTURERS AUTHORIZED REPRESENTATIVE.
 3. TUBING INSTALLATION SHALL BE BY MANUFACTURERS AUTHORIZED REPRESENTATIVE.
 4. ALL TUBING TO BE 6" FROM WALLS, SPACED 12" O.C. DOWN.



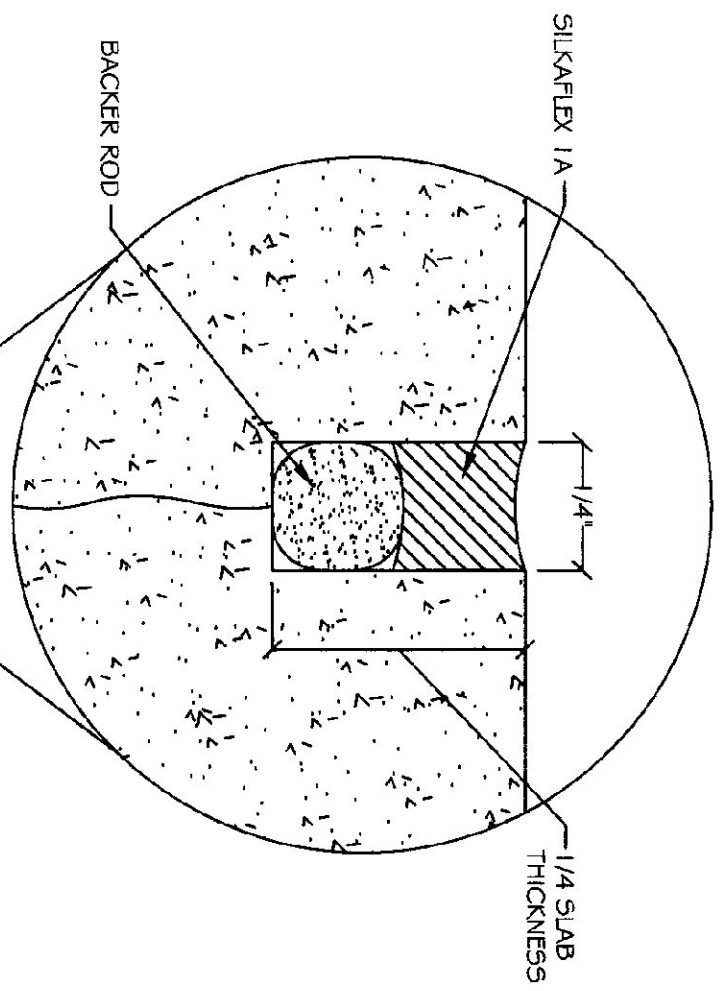
FUEL SUPPLY SCHEMATIC
NOT TO SCALE



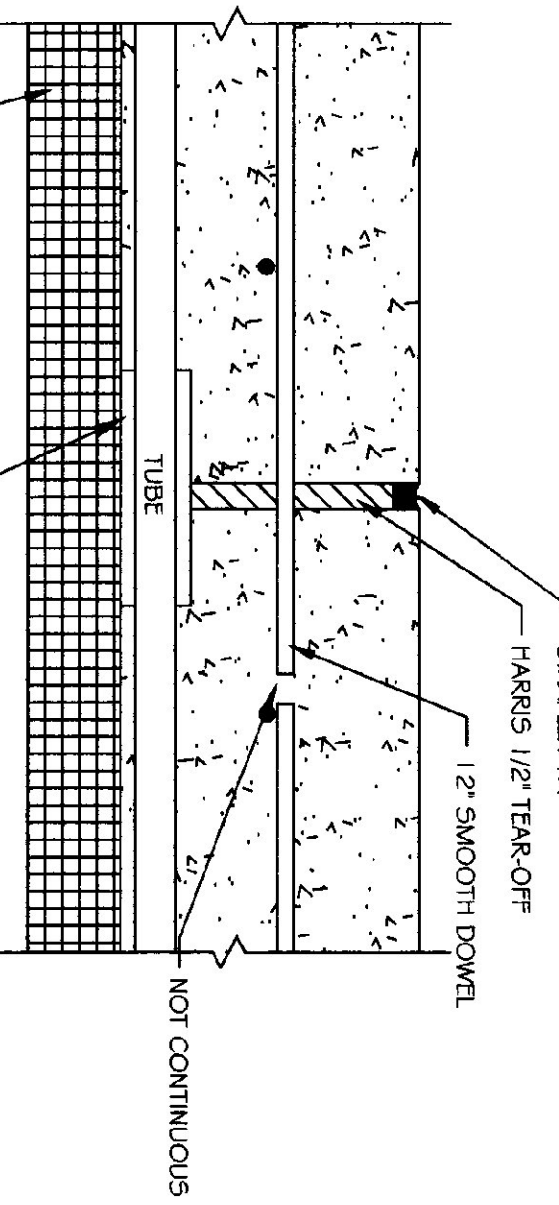
BOILER PLAN
SCALE: 1/2" = 1'-0"



TYPICAL CROSS SECTION
NOT TO SCALE



SAW CUT JOINT
NOT TO SCALE



EXPANSION JOINT
NOT TO SCALE

SEQUENCE OF CONTROL

- A. OUTSIDE AIR SENSOR SHALL BE LOCATED ON THE NORTH WALL WHERE IT WON'T BE INFLUENCED BY ANYTHING OTHER THAN THE OUTSIDE AIR TEMP.
- B. HEATING SYSTEM
 1. THE BOILER, DOMESTIC HOT WATER MAKER, AND CIRCULATORS SHALL BE CONTROLLED BY A WIRELESS FROM A 2 1/2\"/>
2. WHEN OUTDOOR AIR FALLS BELOW 60° (A.O.I.)
 - a. BOILER IS ENABLED.
 - b. TRANSFER PUMP IS ENABLED.
 - c. CIRCULATORS C-1 AND C-2 ARE STARTED.
 - d. CIRCULATORS C-3 THROUGH C-5 ARE ENABLED.
3. OPERATING ADJUST ON BOILER TO MAINTAIN BOILER BETWEEN 150°F AND 170°F.
4. INJECTION CIRCULATOR C-3 TO BE MODULATED BY A CONTROLLER BASED ON: OUTSIDE AIR TEMPERATURE, INSIDE AIR TEMPERATURE OF GARAGE AND LOOP TEMPERATURE TO MAINTAIN CALCULATED LOOP SUPPLY SETPOINT. SETPOINT, OFFSET AND RATIO TO BE ADJUSTABLE AT CONTROLLER. INITIAL VALUES FOR CONTROLLER:

MODES 1	93°F
MODES 2	OFF
BOIL REF.	120°F
5. CIRCULATOR C-4 TO CYCLE ON AND OFF BY THE THERMOSTAT IN THE BATHROOM TO MAINTAIN SETPOINT.
6. CIRCULATOR C-5 TO CYCLE ON AND OFF BY THE THERMOSTAT IN THE OFFICE TO MAINTAIN SETPOINT.
7. ADJUST IN DOMESTIC HOT WATER TANK TO MAINTAIN ROLER AND CYCLE CIRCULATOR C-6 TO MAINTAIN SETPOINT.
- C. FUEL OIL TRANSFER PUMP TO OPERATE WHENEVER BOILER OPERATES. BATTERY BOILER SHUT-OFF SWITCH TO SHUT OFF TRANSFER PUMP ALSO.
- D. FAN F-1 TO COME ON WITH LIGHT SWITCH, AND OPERATE FOR 5 MINUTES AFTER LIGHT IS TURNED OFF.
- E. FAN F-2 TO BE CONTROLLED BY A SPRING WOUND TIMER SWITCH. SEE ELECTRICAL DRAWING FOR DETAILS.
- F. MOD-1 TO OPEN WHENEVER FAN F-2 OPERATES, AND CLOSE WHEN F-2 STOPS.

LEGEND	
	BALL VALVE, FULL PORTED, 5.5\"/>
	BALL VALVE W/109E THREADS & BRASS CAP
	STRAINER & BALL VALVE BLOW DOWN
	MANING VALVE SET @ 95°F
	TACO 5003-C1
	PRESSURE RELIEF VALVE, PIPE TO 6\"/>
	THERMOSTAT, MOUNT @ 54\"/>
	SENSOR, MOUNT @ 54\"/>
	THERMOMETER
	TACO FLO CHECK
	CIRCULATOR
	SHROVERT 1-1/2\"/>
	PRESSURE GAUGE
	TOUR-ANDERSON STD BALANCING VALVE
	KENT OIL METER
	FUEL OIL TRANSFER PUMP, SLUICIC DB-1020M
	BALL VALVE, FULL PORT, 5.5\"/>
	SLUICIC PSV-36
	PNEUMATIC VALVE
	CHECK VALVE
	N

EQUIPMENT SCHEDULE

PLAN SYMBOL	DESCRIPTION	MANUF. & MODEL	CHARACTERISTICS	ELECTRIC VOLTS / Ø / HZ	NOTES
B-1	BOILER	BUDERUS G215-4	36,000 BTU INPUT, 171,000 BTU NET BRK. RATIO 400 SERIES 15 BURNER	120 V / 60 / 2.2 A	
XT-1	EXP. TANK	AIRTRUQ ST 30V	1.4 GALLON TANK, 11.3 GALLON ACCEPTANCE		
L-1	RELIEF DAWPER	VENT PRODUCTS 2750	36\"/>		
MOD-1	RELIEF DAWPER	VENT PRODUCTS 5703	36\"/>	120 V / 60	BEHIND DIRECT COULFIED ACTUATOR SPRINGS WOUND N.C.

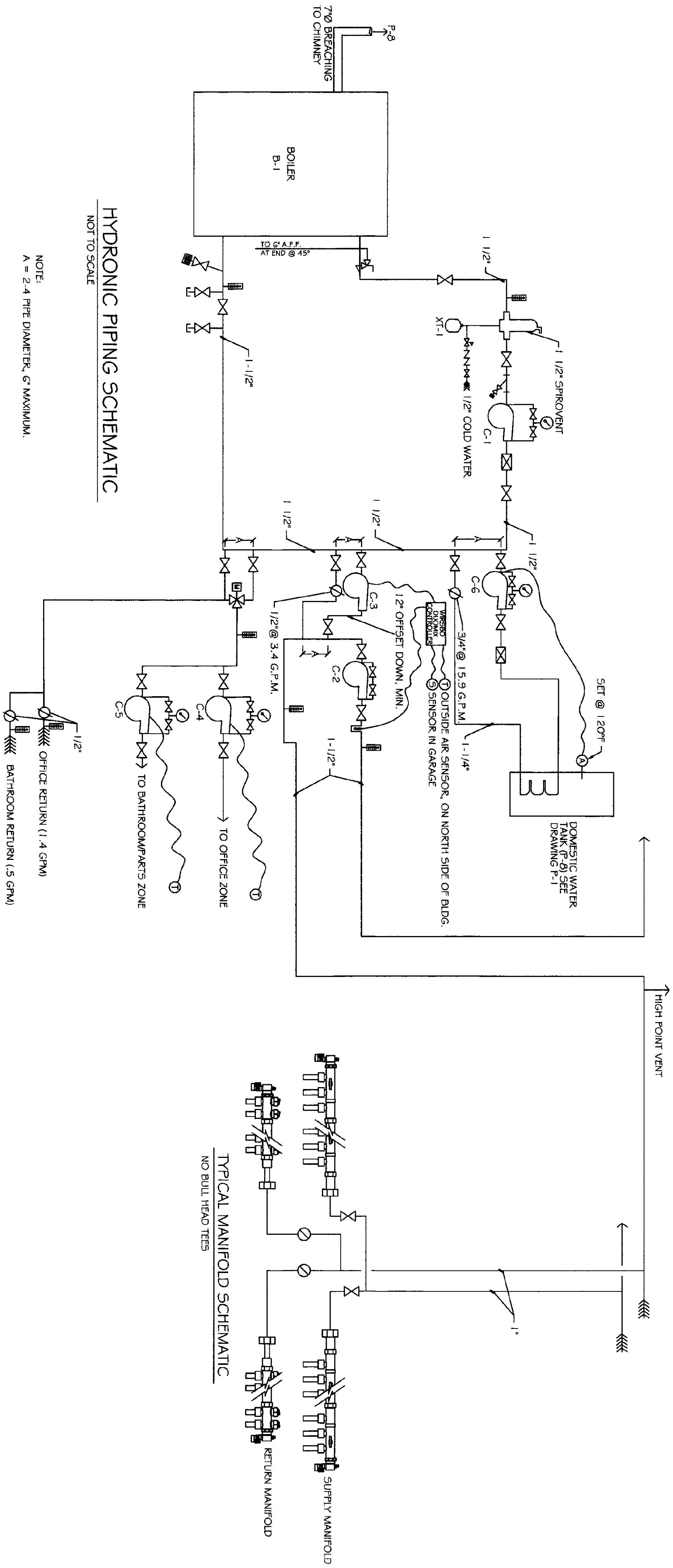
CIRCULATOR SCHEDULE

PLAN SYMBOL	SYSTEM	MANUF. & MODEL	G.P.M.	FEET HEAD	H.P.	ELECTRICAL	R.P.M.	NOTES
C-1	MAIN	TACO 0010	20	4.0	1/15	120/160 1.3 A	3250	
C-2	GARAGE ZONE	TACO 1G15	23	21.5	1/2	120/160	1750	
C-3	GARAGE INJECTION	TACO 005	3.4	3.5	1/55	120/160 .53 A	3250	
C-4	OFFICE ZONE	TACO 005	1.4	6.5	1/55	120/160 .53 A	3250	
C-5	STORAGE / BATHROOM ZONE	TACO 005	0.5	1.2	1/35	120/160 .53 A	3250	
C-6	WATER HEATER	TACO 007	15.9	5.0	1/25	120/160 .70 A	3250	

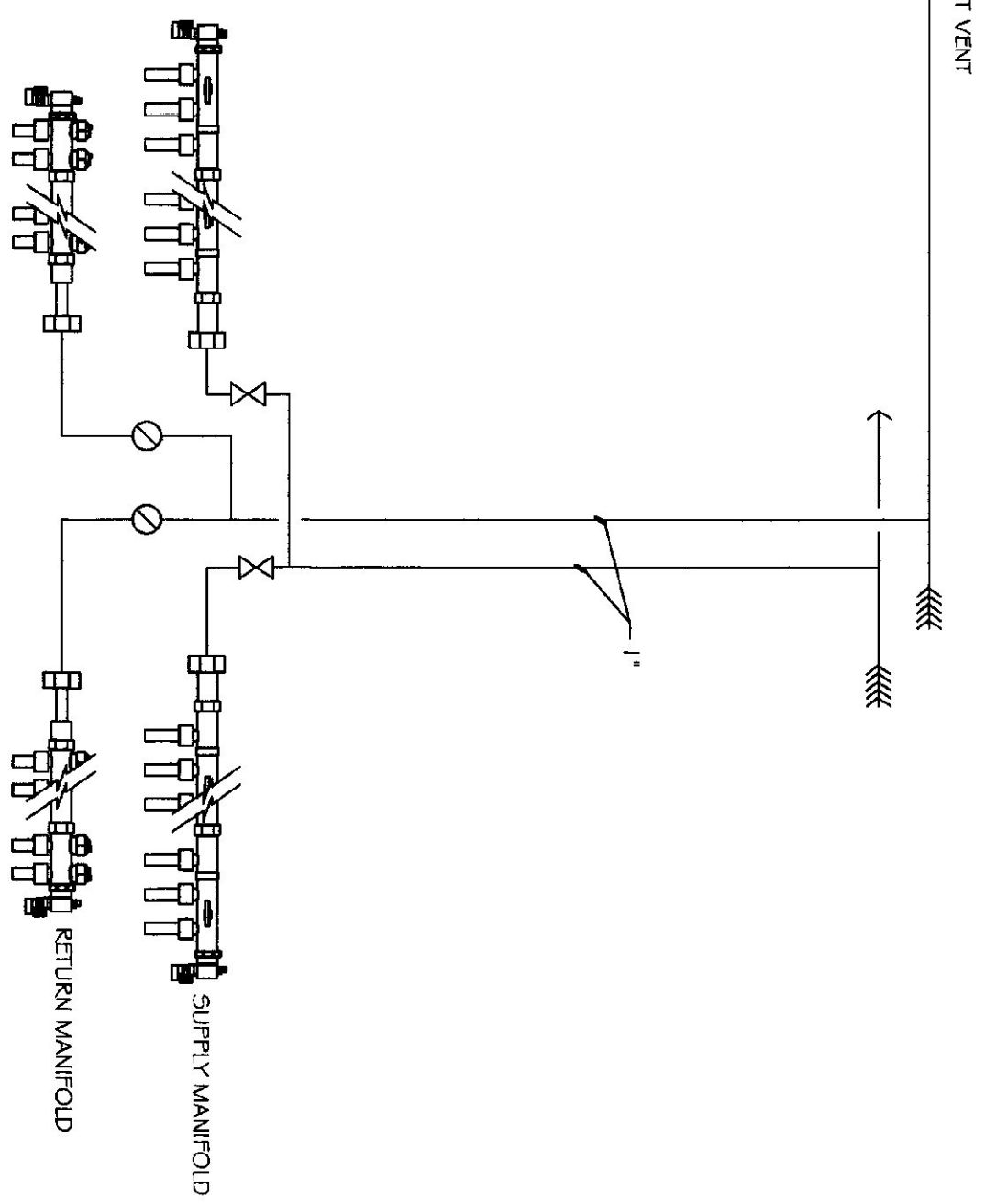
FAN SCHEDULE

PLAN SYMBOL	SYSTEM	MANUF. MODEL & TYPE	C.F.M.	5\"/>					
F-1	BATHROOM	GREENHECK SEI-D-440-E	100	.125	2.2	1050	1/100	120/160	WEATHER HOOD, SCREEN & MOD W/ BELMO CIRCL.
F-2	GARAGE VENT	GREENHECK 98S-1124-4	4250	.125	12.2	649	1/4	120/160	WEATHER HOOD, SCREEN & MOD

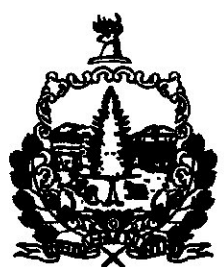
HYDRONIC PIPING SCHEMATIC
NOT TO SCALE



TYPICAL MANIFOLD SCHEMATIC
NO BULL HEAD TEES



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



MONTGOMERY A.O.T. GARAGE
RADIANT HEATING
DETAILS & SCHEDULES

REVISIONS

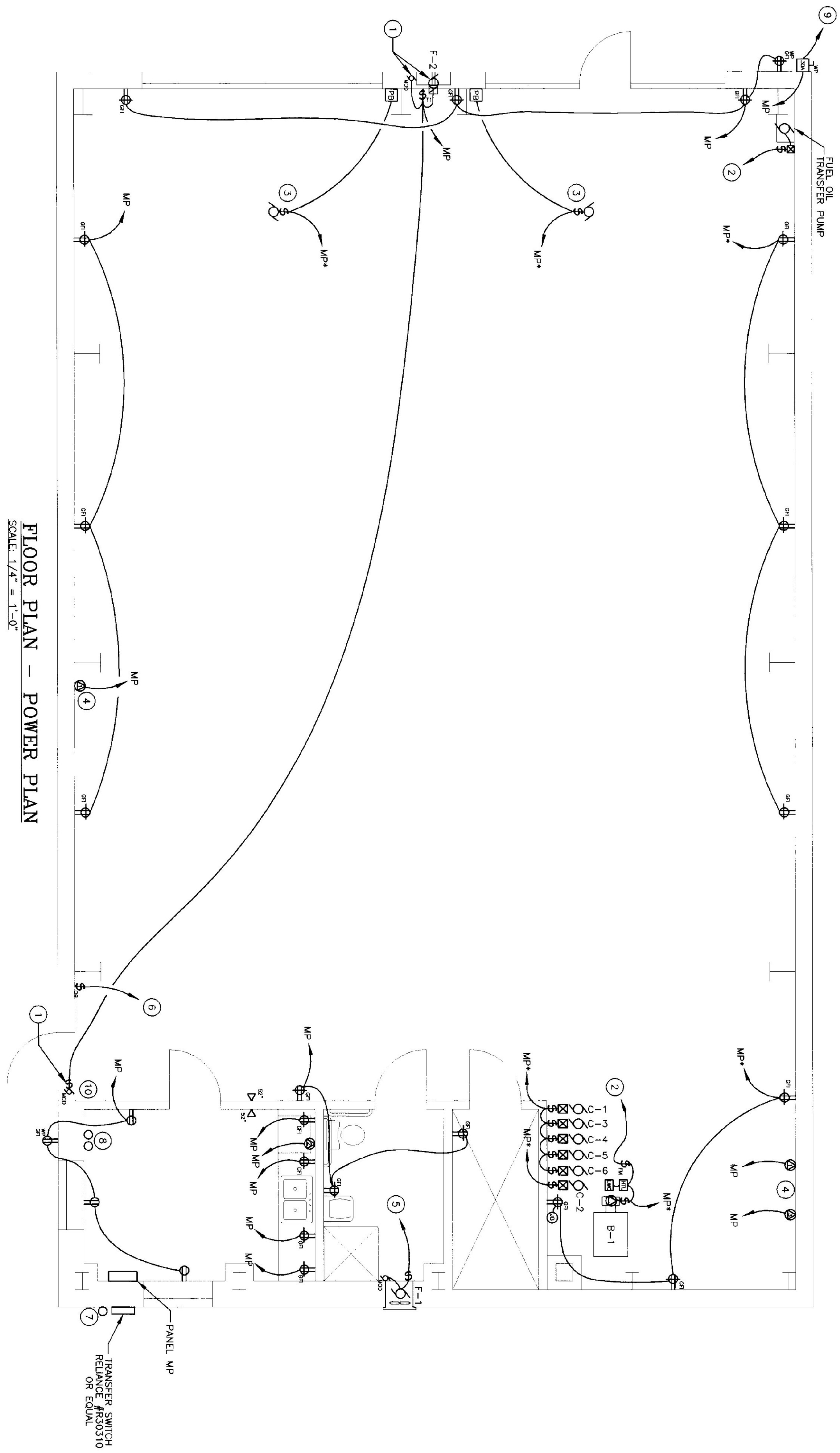
SCALE: AS NOTED
DATE: MAY 2003
DRAWN BY: N. HERSEY
APPR. BY: TEIGH

MONTGOMERY A.O.T. GARAGE

RADIANT HEATING

M-2

OF



PANEL: MP
 AMPS: 200 MAIN CIRCUIT BREAKER
 AMPS: FAULT CURRENT WITHSTAND: 10K
 NOTES: SERVICE RATED TOTAL LOAD: 40.5 KW
 FLUSH MOUNT

LOCATION: BREAK ROOM
 120/240 VOLTS
 1 PHASE
 3 WIRE

NO	BREAKER AMPS	KW LOAD	DESCRIPTION	NO	BREAKER AMPS	KW LOAD	DESCRIPTION
1	20*	0.6	RECEPTACLES GFI	2	50	6.7	WELDER OUTLET
3	20	0.7	RECEPTACLES GFI	4	20	0.7	EXHAUST FAN
5	20	0.6	RECEPTACLES GFI	6	20*	1.5	GARAGE DOOR
7	20*	0.7	RECEPTACLES GFI & CONTROL POWER	8	20*	1.5	WELDER OUTLET
9	20	0.6	BATHROOM, RECEPTACLES	10	50	6.7	WELDER OUTLET
11	20	0.7	RECEPTACLES/BREAK AREA	12	20*	1.5	GARAGE DOOR
13	20	1.5	REFRIGERATOR	14	20*	1.5	LIGHTING
15	20	1.5	KITCHEN COUNTERTOP	16	20*	0.7	LIGHTING & PADOLE FANS
17	20	1.5	KITCHEN COUNTERTOP	18	20*	1.2	BAY LIGHTING
19	20	1.5	KITCHEN COUNTERTOP	20	20	1.7	OUTDOOR BUILDING LIGHTING
21	20*	1.5	BOILER B-1/FUEL TRANSFER PUMP	22	20*	0.5	KITCHEN COUNTERTOP
23	20*	1.2	ORIG. PUMP C-2	24	20	1.5	SEWER TANK MONITOR
25	20*	1.0	PUMPS C-1, C-3, C-4, C-5, C-6	26	20	0.2	AIR COMPRESSOR
27	20		SPARE	28	30	3.2	SPARE
29	20		SPARE	30	20		SPARE
31	20*	1.0	FUEL DISBURSEMENT UNIT	32	20		SPARE
33	20		NEUTRAL	34	20		SPARE
35	20		SPARE	36	20		SPARE
37	20		SPARE	38	20		SPARE
39	20		SPARE	40	20		SPARE

* DENOTES CONNECTION THRU GENERATOR TRANSFER SWITCH

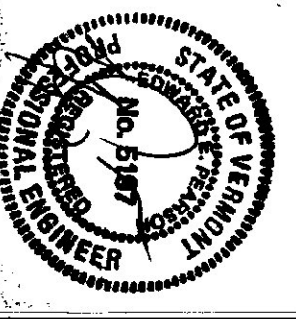
SPECIAL PURPOSE OUTLET SCHEDULE

KEY	DESCRIPTION	SUPPLIED BY	INSTALLED BY	COND & CAP. PROVIDED BY	NEMA #	VOLTS	AMPS	STARTER PROVIDED BY	INSTALLED BY	ELECTRICAL DISCONNECT PROVIDED BY	REMARKS
1	WELDER RECEPTACLE	EC	EC	6-50R		240	50				COORD. LOCATION WITH OWNER
2	UNDERCOUNTER REFRIGERATOR RECEPTACLE	EC	EC	SINGLE CLOCK RECEPTACLE		120	15				RECESSED
3	AIR COMPRESSOR RECEPTACLE	EC	EC	COORD. WITH OWNER		240	30				COORD. LOCATION WITH OWNER

- GENERAL NOTES:**
- ANY PLACE WHERE THE CONTRACTOR PENETRATES, CUTS AND/OR REMOVES WALLS, CEILING, OR FLOOR, CONTRACTOR IS TO REPAIR, PATCH AND PAINT FINISH SURFACES TO ORIGINAL FINISHES.
 - FIELD VERIFY ALL DIMENSIONS BEFORE COMMENCEMENT OF WORK.
 - NOTIFY ENGINEER OF ANY ERRORS.
 - EC TO PROVIDE AND INSTALL ALL DISCONNECT SWITCHES, MC TO SUPPLY ALL MOTOR STARTERS, EG TO INSTALL.
- KEYED NOTES:**
- TIMER SWITCH SHALL OPERATE BOTH MOTOR & GARAGE EXHAUST FAN.
 - TO FUEL OIL BURNER SWITCH, SWITCH ALSO OPENS CIRCUIT TO TRANSFER OVERHEAD DOOR OPENER, PROVIDE WIRING TO REMOVE DOOR OPENING AND EQUIPMENT SUPPLIER.
 - COORDINATE EXACT LOCATIONS OF RECEPTACLES FOR SPECIAL EQUIPMENT WITH OWNER. CONSULT RECEPTACLE AND PLUGS WITH OWNER.
 - TO OCCUPANCY SENSOR, DELAY OFF, 5 MINUTES.
 - TO BOILER & FUEL TRANSFER PUMP.
 - SPARE 2-1/2" CONDUIT, CAP AND MARK FOR FUTURE USE.
 - TELEPHONE TERMINATION AREA, CONDUIT TERMINATION AREA.
 - TO FUEL DISBURSEMENT UNIT, REFER TO SITE PLAN AND DETAIL.
 - LOCATION OF WATER ENTRANCE & WATER METER, BOND TO SYSTEM GROUND.

ELECTRICAL LEGEND

○	FLOUORESCENT FIXTURE
□	LIGHT FIXTURE
⊗	EXIT LIGHT
⊕	EMERGENCY LIGHT
\$	SWITCH - SINGLE POLE
\$	SWITCH - SINGLE POLE WITH GAS BURNER PLATE
\$	SWITCH - 3-WAY
\$	SWITCH - 4-WAY
\$	SWITCH - TIMER, INTERMATIC FF90M
\$	SWITCH - OCCUPANCY SENSOR
\$	SWITCH - FAN SPEED CONTROL, DAVTON AC929
\$	FREANATIC SWITCH, PROVIDED AND INSTALLED BY EC
\$	PUSH-BUTTON STATION, PROVIDED BY ES, WIRED BY EC.
⊠	MOTOR STARTER PROV. BY MC, INSTALLED BY EC.
⊠	SAFETY DISCONNECT PROV. AND INSTALLED BY EC.
⊠	PANEL
⊠	BRANCH CIRCUIT
⊠	JUNCTION BOX
⊠	DUPLEX RECEPTACLE
⊠	QUAD RECEPTACLE
⊠	DUPLEX RECEPTACLE - COUNTER HEIGHT
⊠	DUPLEX RECEPTACLE-GFCI PROTECTED
⊠	SPECIAL PURPOSE OUTLET, REFER TO SCHEDULE
⊠	WEATHERPROOF, NEMA 3R RATED
⊠	ABOVE FINISH FLOOR
⊠	ELECTRICAL CONTRACTOR (DIVISION 16)
⊠	MECHANICAL CONTRACTOR (DIVISION 15)
⊠	GENERAL CONTRACTOR
⊠	EQUIPMENT SUPPLIER
⊠	TYPICAL OF ALL
⊠	CENTRAL VT PUBLIC SERVICE
⊠	NATIONAL ELECTRIC CODE
⊠	MANUAL TRANSFER SWITCH
⊠	HIGH TEMP. LIMIT SWITCH, PROV. BY MC, WIRED BY EC
⊠	LOW WATER CUTOFF, PROV. BY MC, WIRED BY EC
⊠	MOTOR
⊠	MOTOR-OPERATED DAMPER
⊠	PRESSURE SWITCH
⊠	PHONE LOCATION (4" SQUARE BOX WITH 3/4" CONDUIT TO TELEPHONE TERMINATION AREA, PROVIDE EXTENSION RINGS (MUD RINGS) AS REQUIRED, SAME AS ABOVE, MOUNT @ 48" AFF



SCALE: AS SHOWN

DATE: MAY 2003

DRAWN BY: ASG

APPR. BY: E. E. P.

AGENCY OF TRANSPORTATION

MONTGOMERY GARAGE

AGENCY OF TRANSPORTATION

MONTGOMERY GARAGE & SALT SHED

MONTGOMERY VERMONT

Pearson & Associates

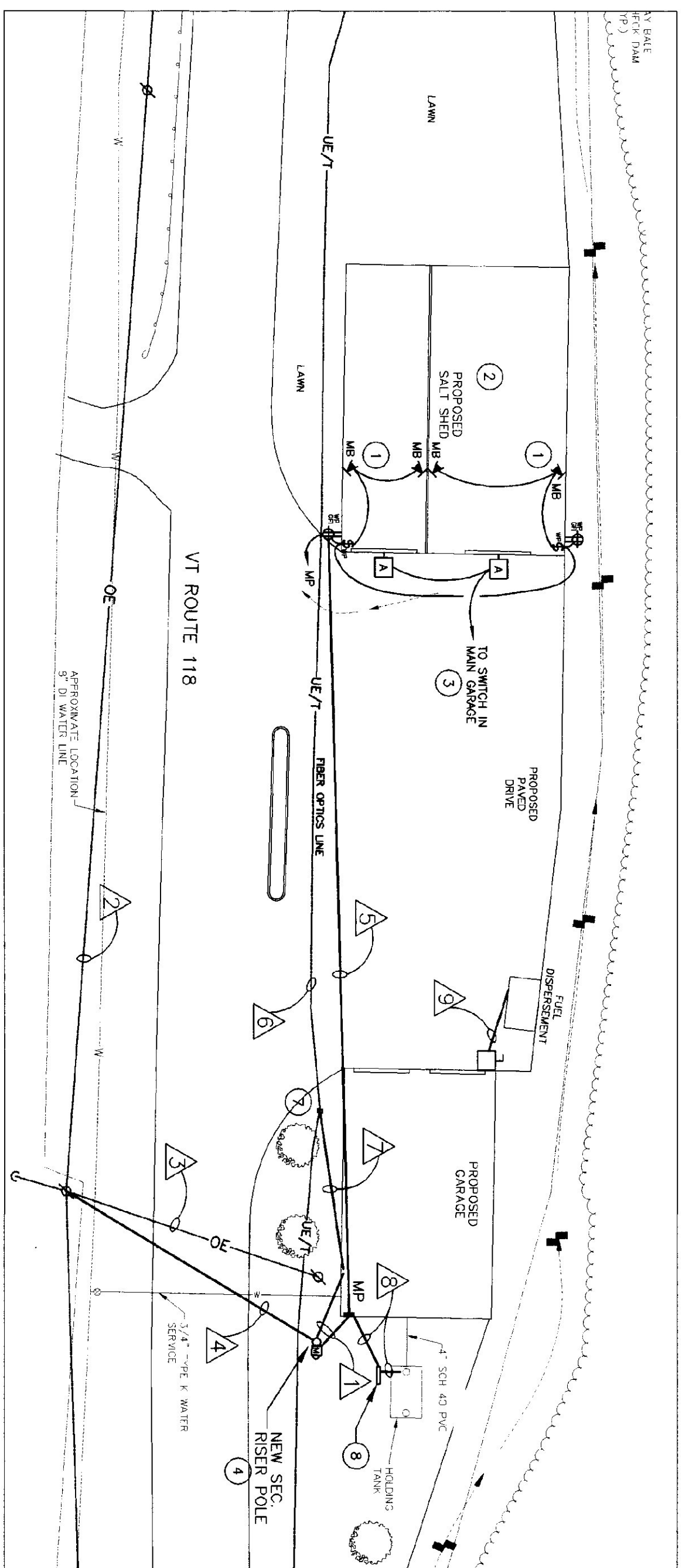
MECHANICAL & ELECTRICAL ENGINEERS
 P.O. BOX 610 STONE, VERMONT 05672
 TEL. (802) 253-9607 FAX. (802) 253-9290
 EMAIL: pearson@stowevt.net

STATE OF VERMONT

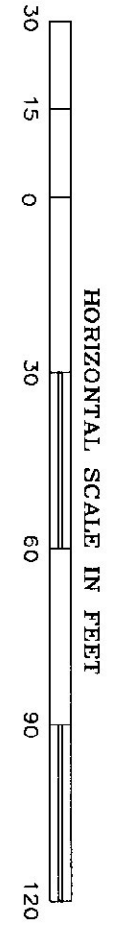
Department of Buildings and General Services

Agency of Administration

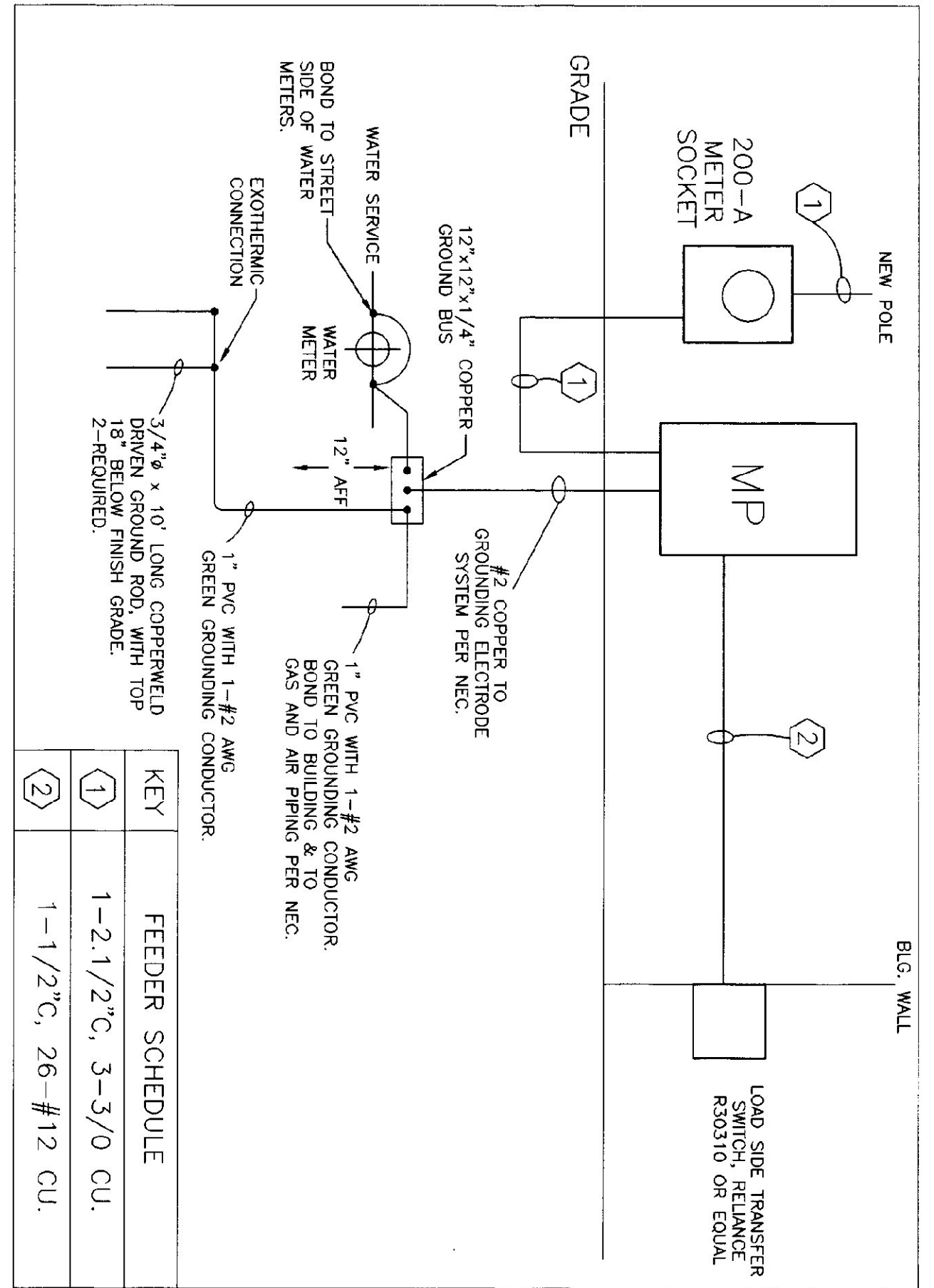
Montpelier, Vermont



FLOOR PLAN - LIGHTING PLAN
SCALE: 1" = 30'-0"

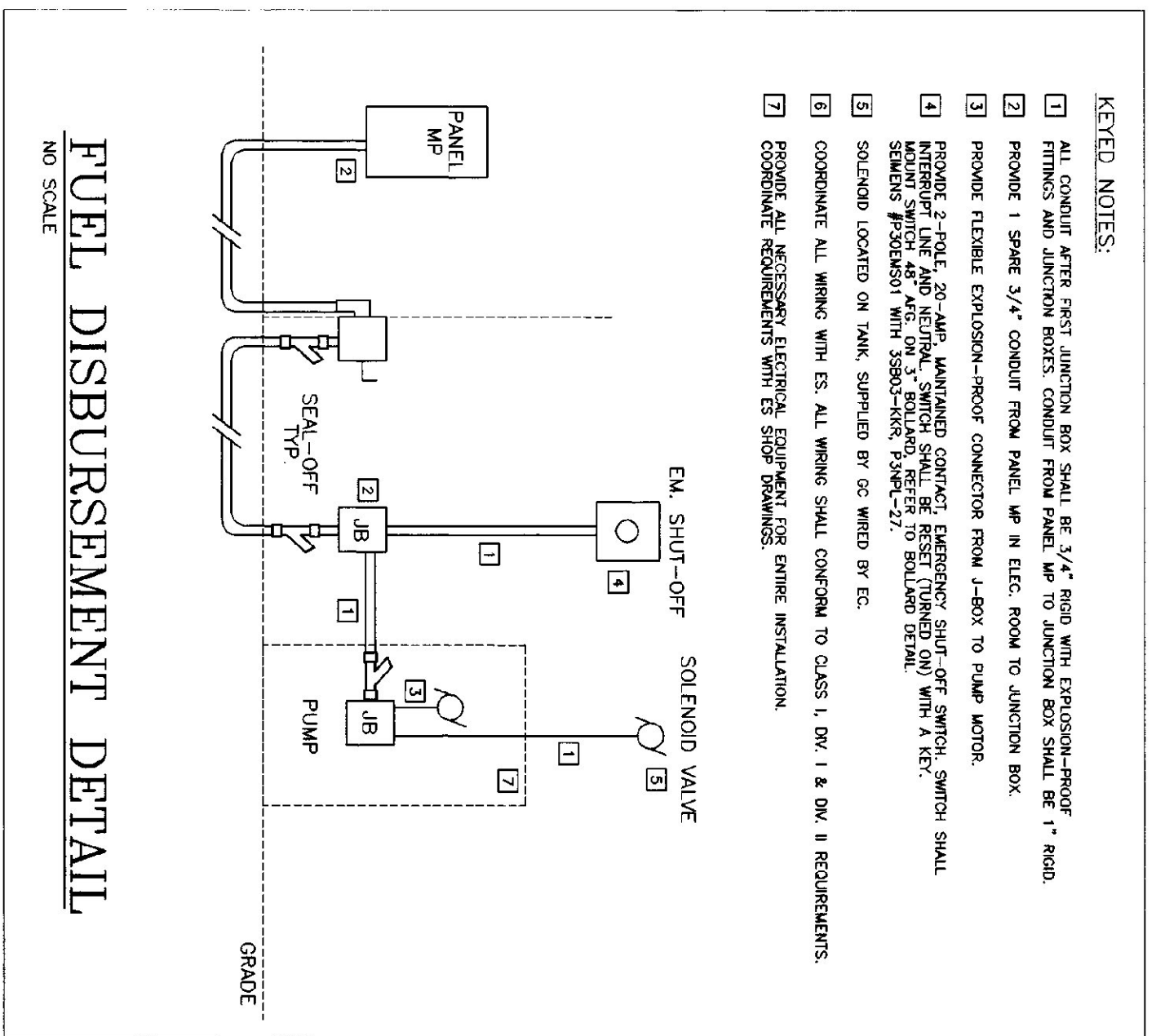


KEY	FEEDER SCHEDULE
1	2-1/2" C, 3-3/0 CU., 2" TEL., 2-1/2" C SPARE
2	EXISTING OVERHEAD PRIMARY UTILITIES
3	OVERHEAD LINES TO BE RELOCATED TO NEW POLE BY CITIZEN'S UTILITY
4	NEW OVERHEAD SERVICE DROP BY CITIZEN'S UTILITY
5	1" C, 6-#10CU., 1" SPARE
6	EXISTING FIBER-OPTIC LINE
7	2" PVC, CONNECT TO EXISTING FIBER OPTIC SPLICE BOX
8	1" C, 5-#12CU.
9	(1) 3/4" IMC, 6-#12, (1) 3/4" IMC SPARE



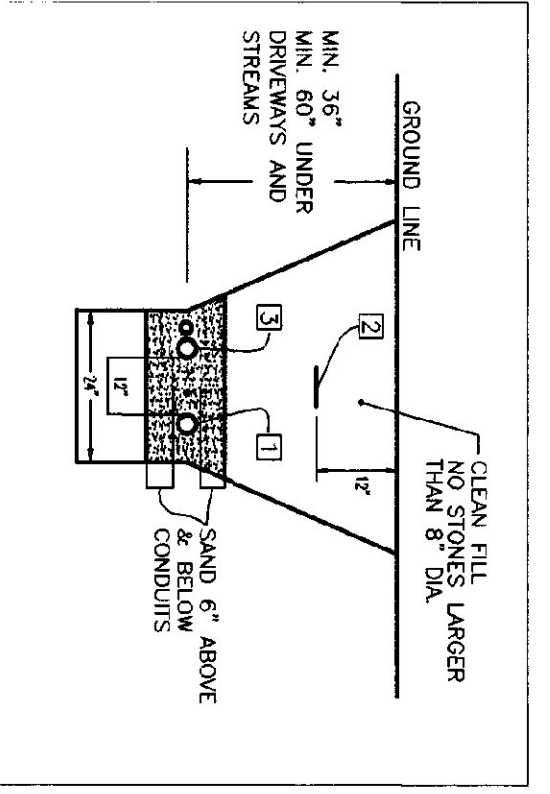
POWER ONE-LINE DIAGRAM
NO SCALE

KEY	FEEDER SCHEDULE
1	1-2.1/2" C, 3-3/0 CU.
2	1-1/2" C, 26-#12 CU.



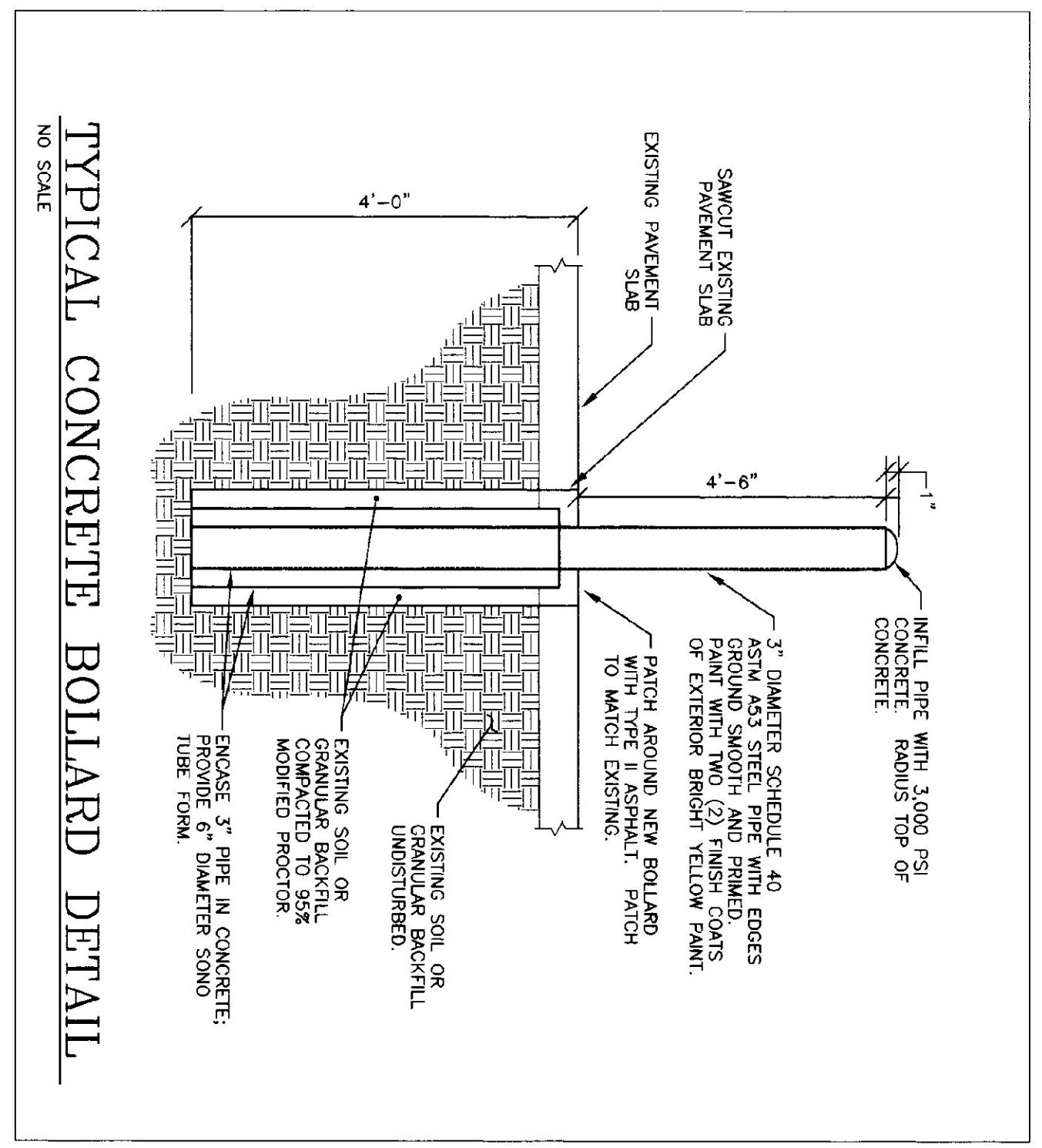
FUEL DISBURSEMENT DETAIL
NO SCALE

- KEYED NOTES:**
- 1 ALL CONDUIT AFTER FIRST JUNCTION BOX SHALL BE 1/2" RIGID WITH EROSION-PROOF FITTINGS AND JUNCTION BOXES. CONDUIT FROM PANEL UP TO JUNCTION BOX SHALL BE 1" RIGID.
 - 2 PROVIDE 1 SPARE 3/4" CONDUIT FROM PANEL UP IN ELEC. ROOM TO JUNCTION BOX.
 - 3 PROVIDE FLEXIBLE EROSION-PROOF CONNECTOR FROM J-BOX TO PUMP MOTOR.
 - 4 PROVIDE 2" PVC, 20' LONG, UNDRIVEN CONDUCTOR, EROSION-PROOF SHUT-OFF SWITCH, SWITCH SHALL BE 1/2" RIGID WITH EROSION-PROOF FITTINGS. REFER TO BOLLARD DETAIL.
 - 5 SOLENOID LOCATED ON TANK, SUPPLIED BY 60 WIRE BY EC.
 - 6 CORROSION ALL WIRING WITH EC. ALL WIRING SHALL CONFORM TO CLASS 1, DIV. 1 & DIV. 2 REQUIREMENTS.
 - 7 PROVIDE ALL NECESSARY ELECTRICAL SUPPLIES AND MATERIALS FOR ENTIRE INSTALLATION.



TRENCH DETAIL
NO SCALE

KEY	DESCRIPTION				
1	SERVICE CABLE DUCT SHALL BE PVC SCHEDULE 40, UNDER ROADS & DRIVEWAYS TO BE SCHEDULE 80. <tr> <td>2</td> <td>WARNING TAPE SHALL BE ELECTRIC LEGEND TYPE. ALLEN CRYSTAL-LOK-EC OR EQUAL (WARNING TAPE SHALL BE PLACED 12" BELOW SURFACE). <tr> <td>3</td> <td>TEL. DUCT SHALL BE PVC SCHEDULE 40 UNDER ROADS & DRIVEWAYS TO BE SCHEDULE 80. PROVIDE SPARE 2-1/2" CONDUIT. </td></tr></td></tr>	2	WARNING TAPE SHALL BE ELECTRIC LEGEND TYPE. ALLEN CRYSTAL-LOK-EC OR EQUAL (WARNING TAPE SHALL BE PLACED 12" BELOW SURFACE). <tr> <td>3</td> <td>TEL. DUCT SHALL BE PVC SCHEDULE 40 UNDER ROADS & DRIVEWAYS TO BE SCHEDULE 80. PROVIDE SPARE 2-1/2" CONDUIT. </td></tr>	3	TEL. DUCT SHALL BE PVC SCHEDULE 40 UNDER ROADS & DRIVEWAYS TO BE SCHEDULE 80. PROVIDE SPARE 2-1/2" CONDUIT.
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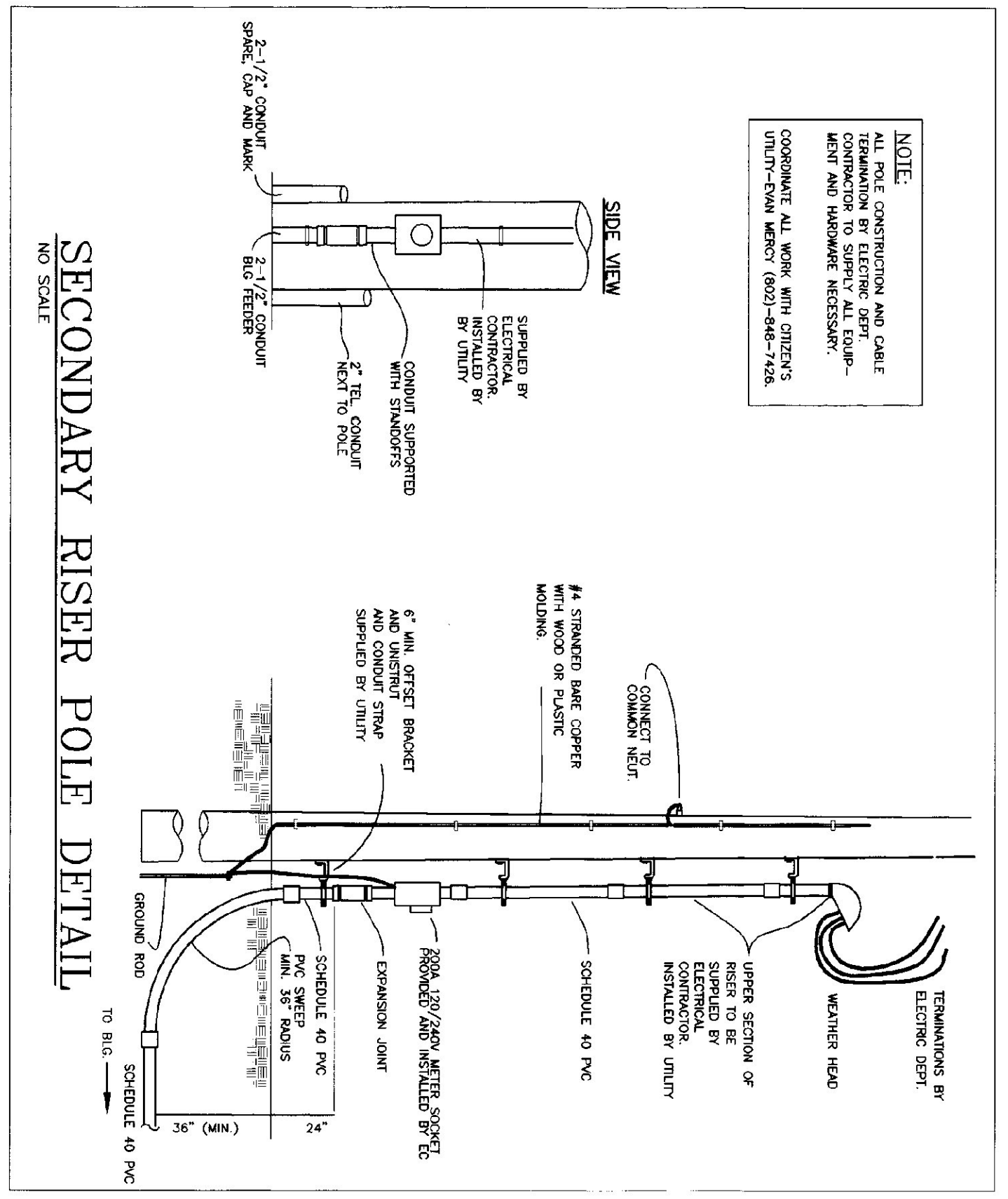


TYPICAL CONCRETE BOLLARD DETAIL
NO SCALE

- GENERAL NOTES:**
- A. ANY PLACE WHERE THE CONTRACTOR PENETRATES, CUTS AND/OR REMOVES WALLS, CEILINGS, OR WOODWORK, CONTRACTOR IS TO REPLACE, PATCH AND PAINT FINISH SURFACES TO ORIGINAL FINISHES.
 - B. FIELD VERIFY ALL DIMENSIONS BEFORE COMMENCEMENT OF WORK.
 - C. EC TO PROVIDE AND INSTALL ALL DISCONNECT SWITCHES, MC TO SUPPLY ALL MOTOR STARTERS, EC TO INSTALL.

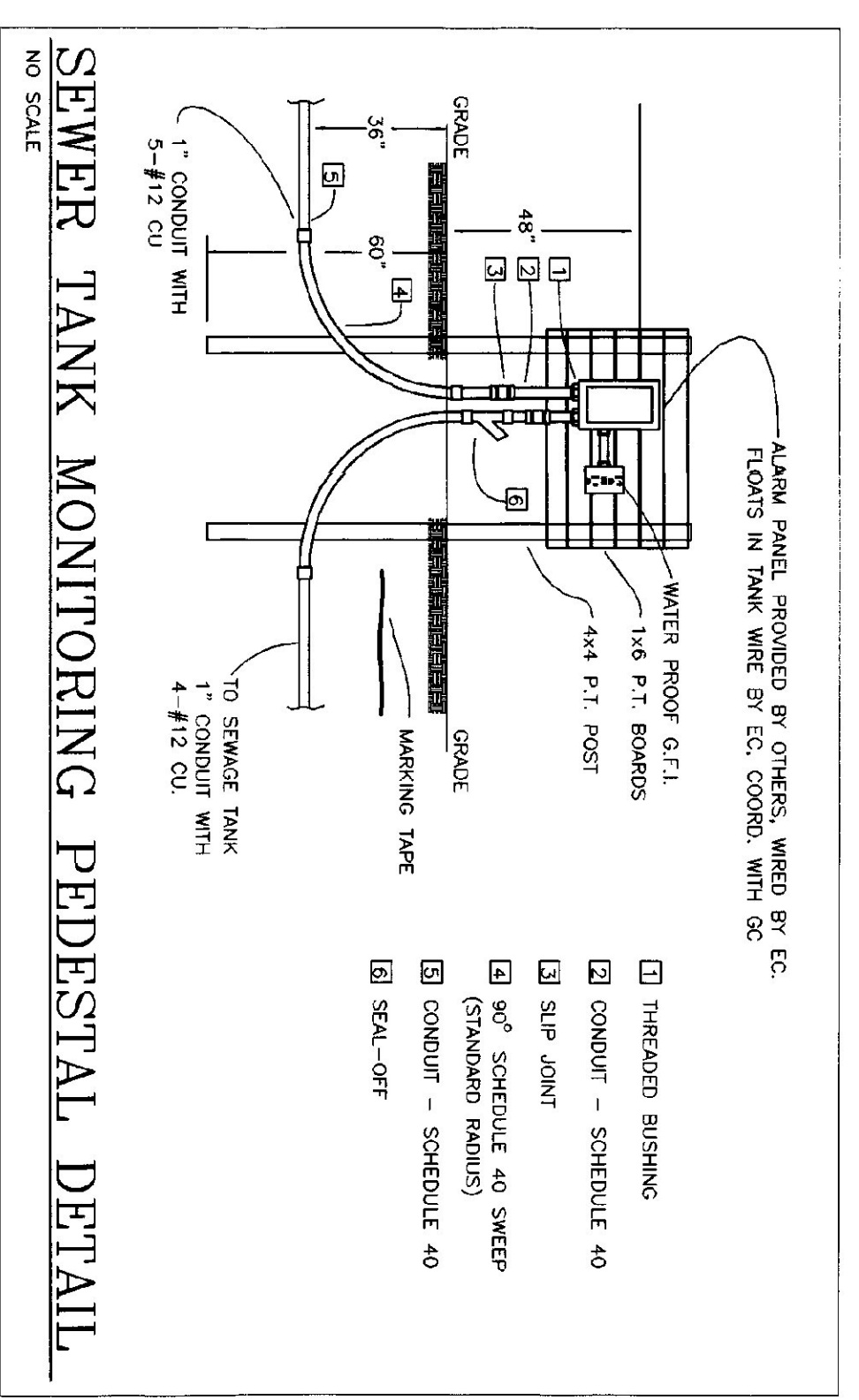
KEYED NOTES:

- 1 MOTION DETECTORS SHALL WORK IN TANDEM, SWITCH SHALL OVERRIDE THE MOTION DETECTORS.
- 2 NO CONDUIT BELOW 8" IN SALT SHED. ALL SHED AND EXPOSED EXTERIOR CONDUIT SHALL BE PVC CONDUIT.
- 3 PROVIDE 2-1/2" CONDUITS TO MAIN BUILDING TO SHED, 1 CONDUIT FOR OUTSIDE LIGHTS AND POWER CIRCUIT, 1 CONDUIT SPARE FOR FUTURE USE.
- 4 EXISTING UTILITY POLE TO BE RELOCATED, COORDINATE WITH UTILITY. EC SHALL VERIFY ALL DIMENSIONS AND OVERHEAD SERVICE.
- 5 ALL WIRING ASSOCIATED WITH FUEL DISPENSING STATION SHALL BE IN CONDUIT. REFER TO BOLLARD DETAIL FOR CONDUIT SIZES AND SCHEDULES PRIOR TO BID DATE. DO NOT CROSS SEWER SPACING WITH CONDUIT RANS.
- 6 USE STEEL SWEEP AT METER SOCKET.
- 7 APPROX. LOCATION OF EXISTING FIBER OPTIC CONNECTION POINT. PROVIDE 2" FROM THIS POINT TO TELEPHONE TERMINATION AREA.
- 8 REFER TO PEDESTAL DETAIL FOR TANK LEVEL MONITORING WIRING.



SECONDARY RISER POLE DETAIL
NO SCALE

NOTE:
ALL WIRING CONSTRUCTION AND CABLE SHALL BE IN CONDUIT. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND OVERHEAD SERVICE PRIOR TO BID DATE. DO NOT CROSS SEWER SPACING WITH CONDUIT RANS.



SEWER TANK MONITORING PEDESTAL DETAIL
NO SCALE

REVISIONS

SCALE: AS SHOWN
DATE: MAY 2003
DRAWN BY: ASG
APPR. BY: E. E. P.

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

ELECTRICAL TRANSPORTATION GARAGE

F-3
3 OF 3