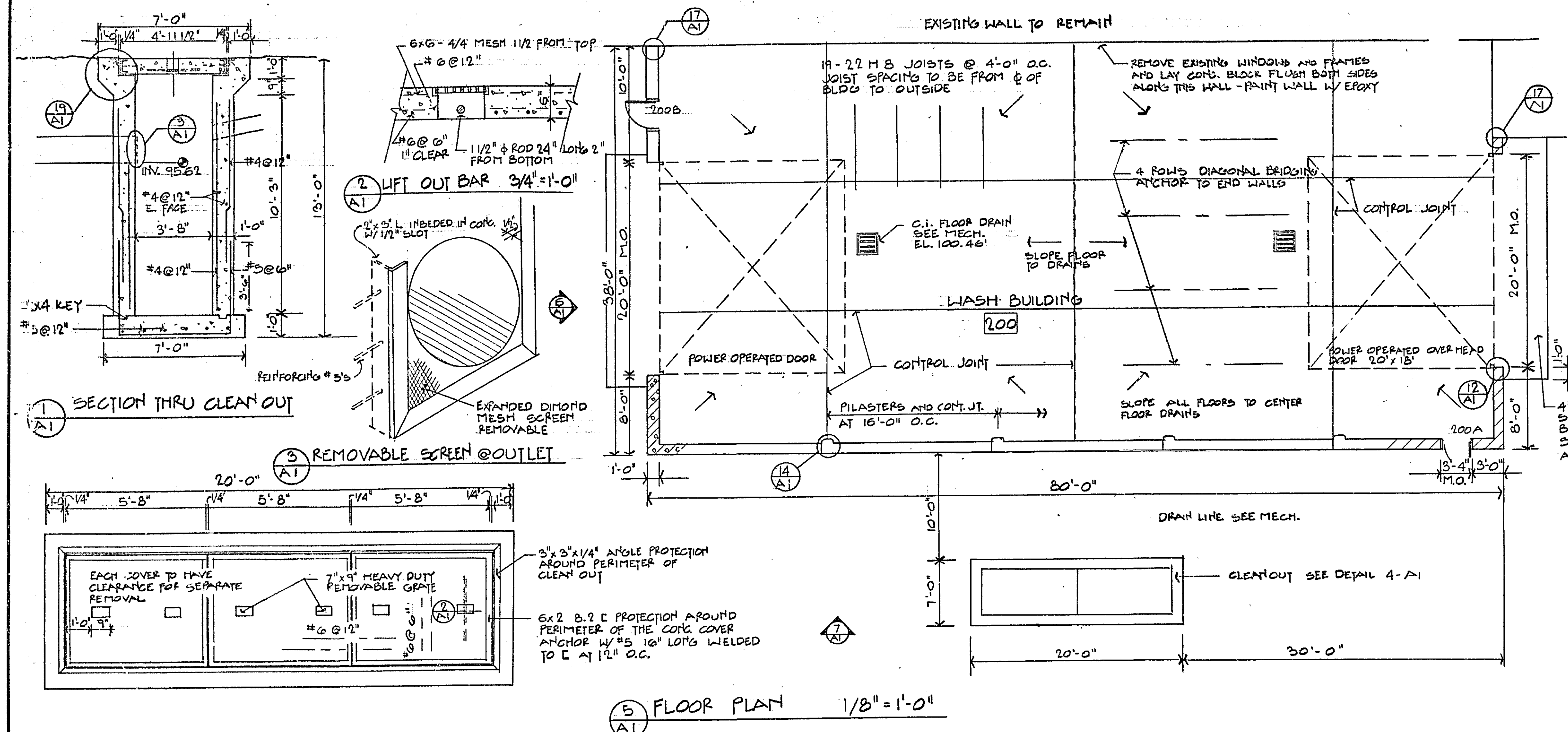


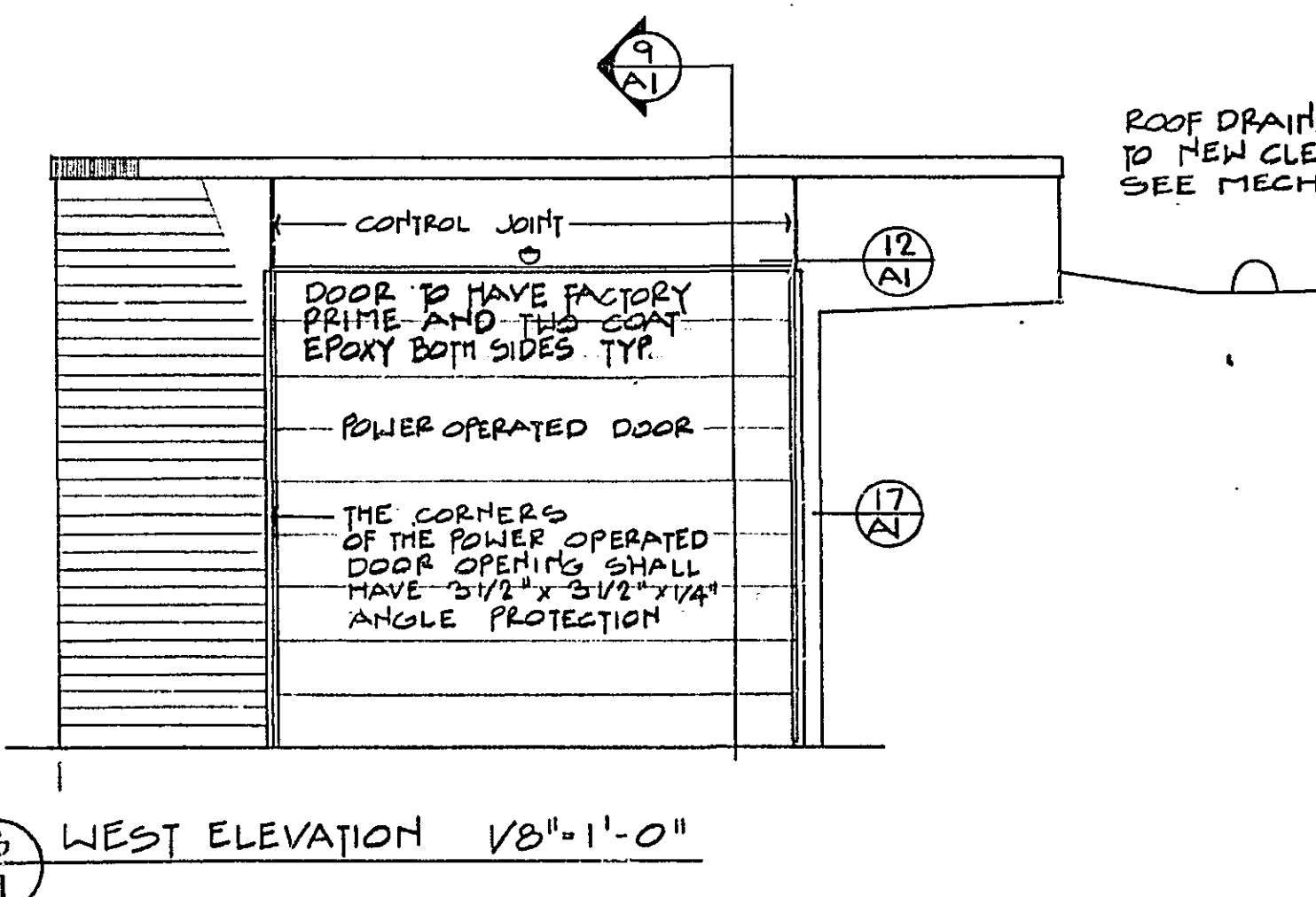
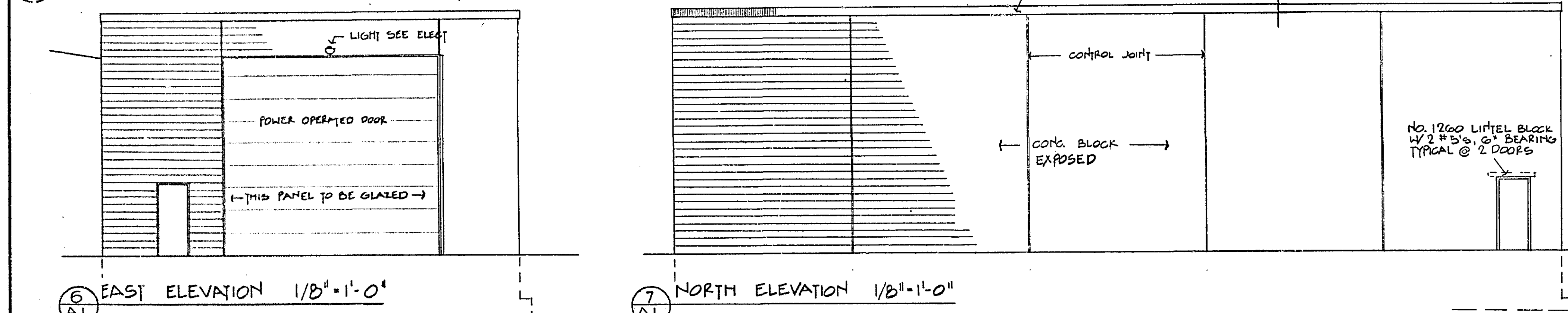
RAMSEY COUNTY HIGHWAY GARAGE TRUCK WASHING ADDN. & REMODELING SAINT PAUL MINNESOTA

SHEET NO. 2 DRAWING
TRUCK WASHING BUILDING ADDITION
INTERIOR REMODELING AND MECH. -ELECT.

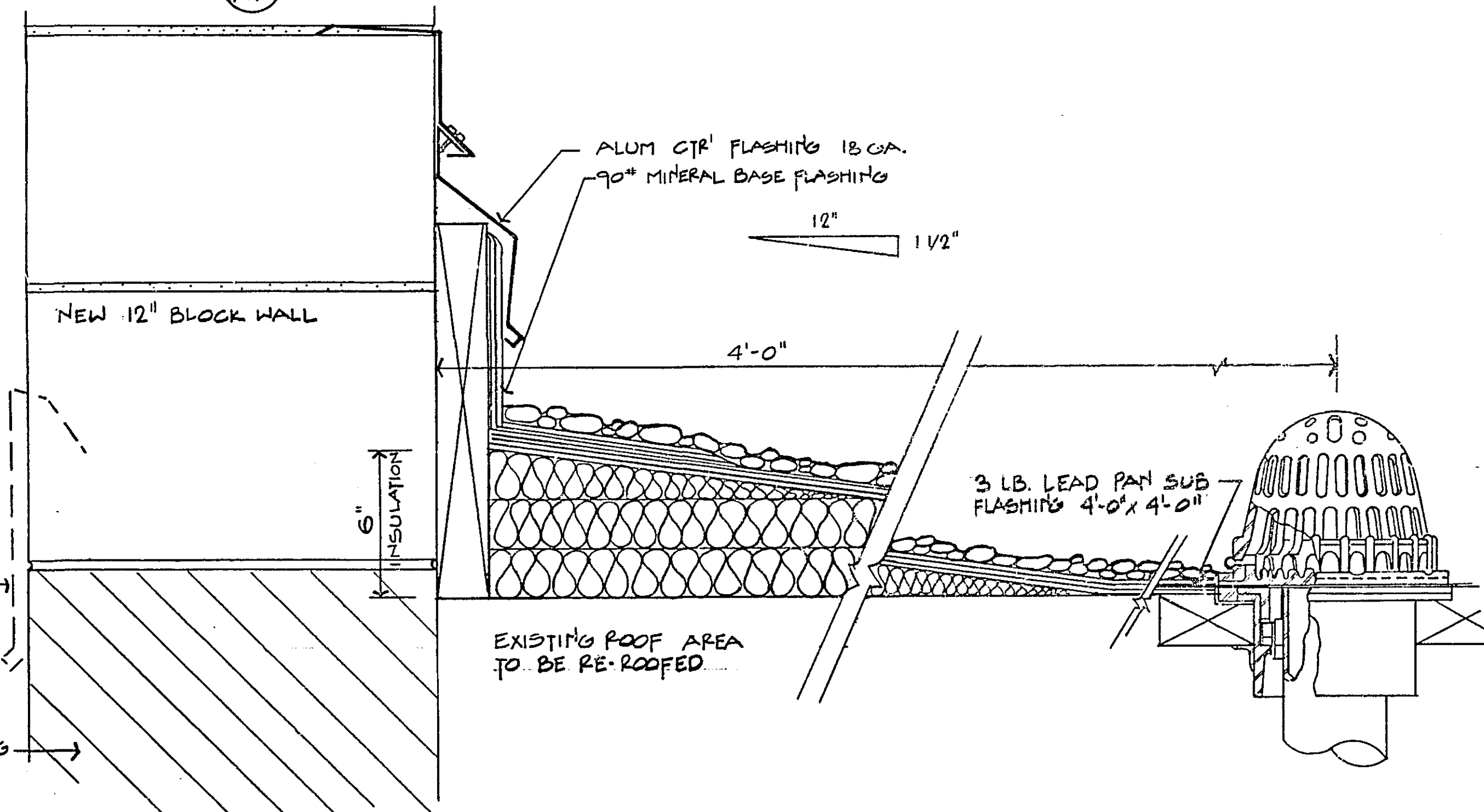
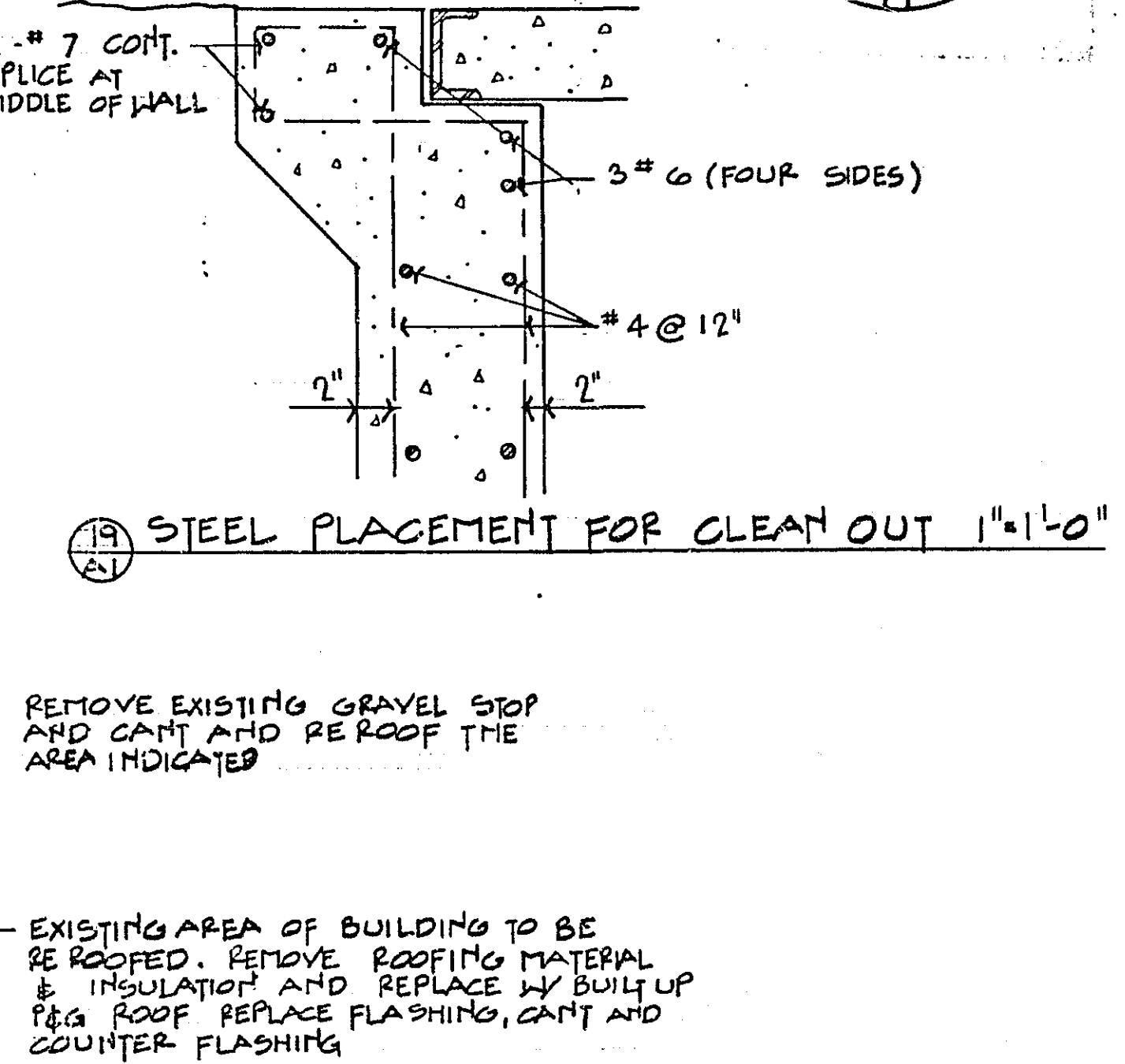
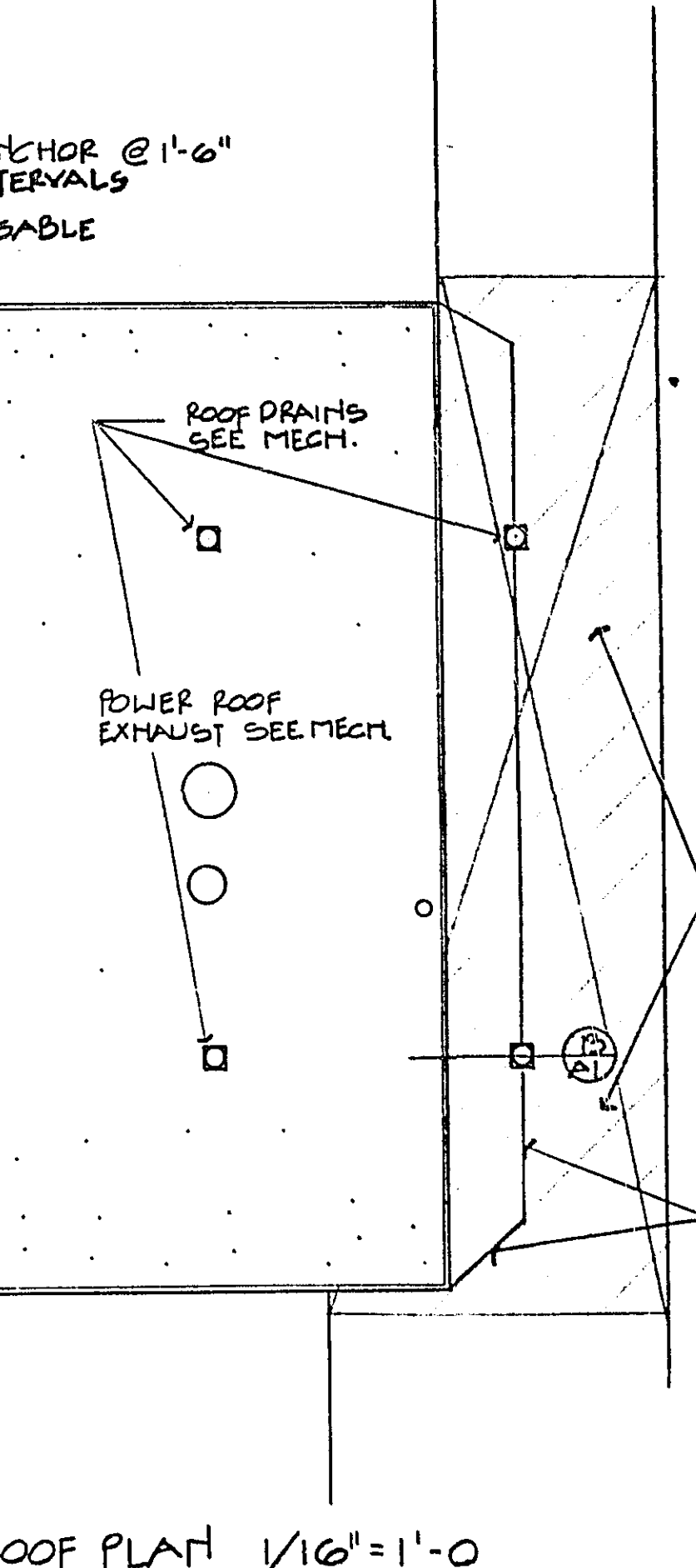
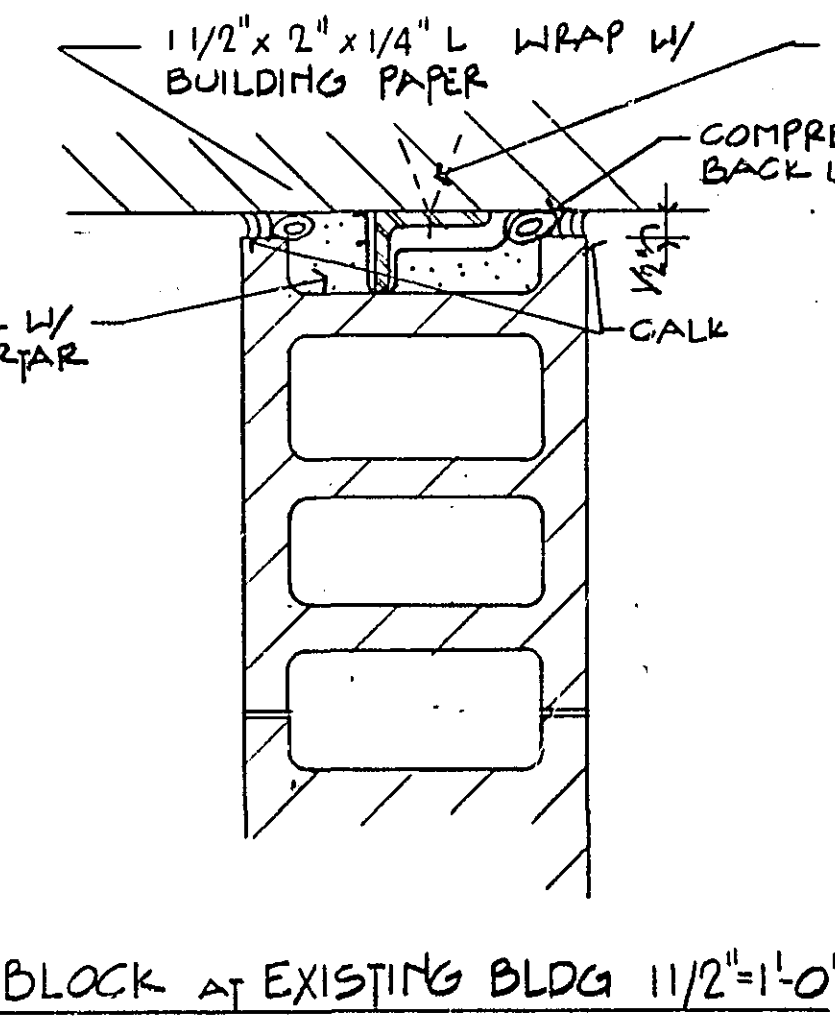
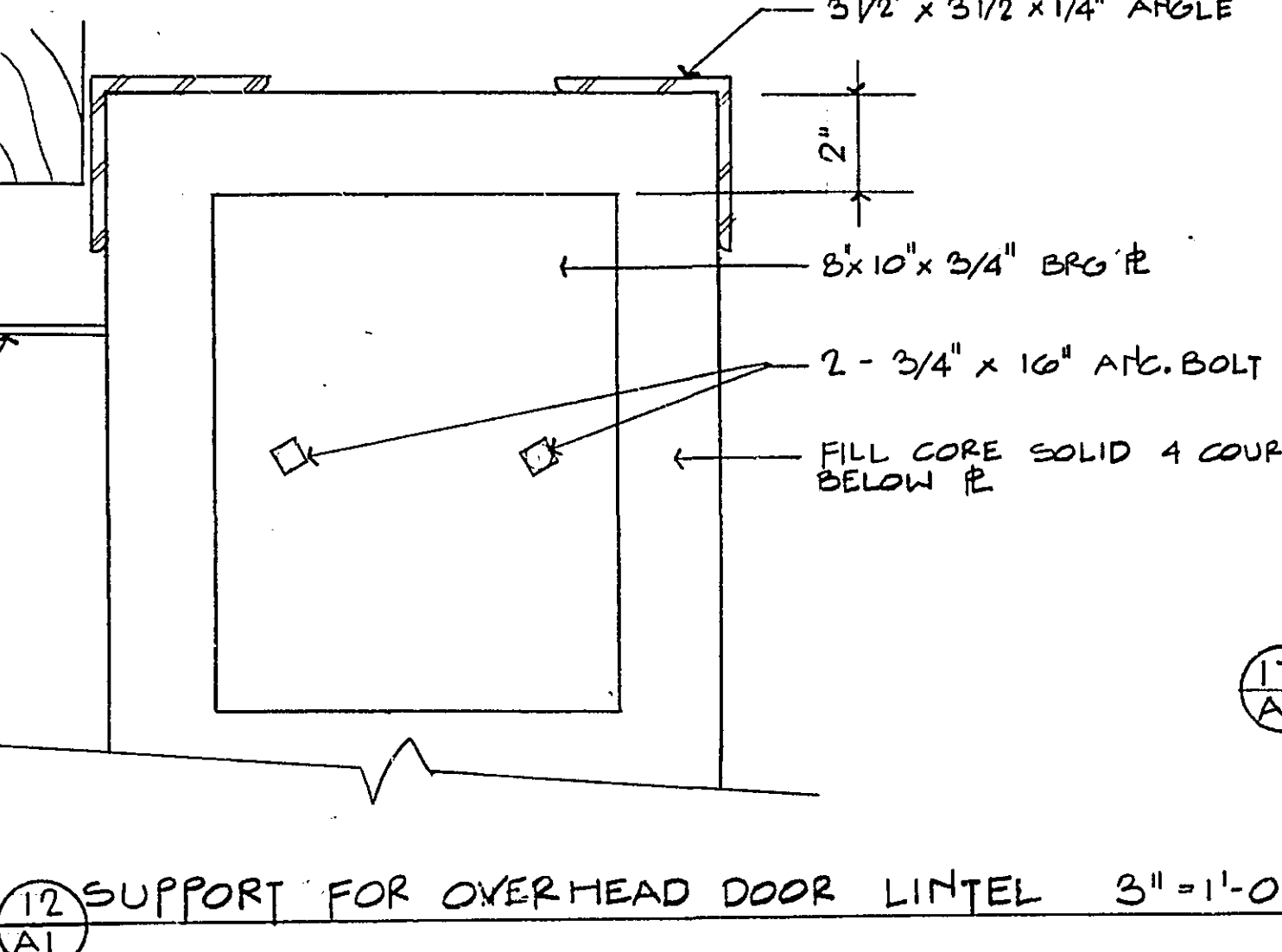
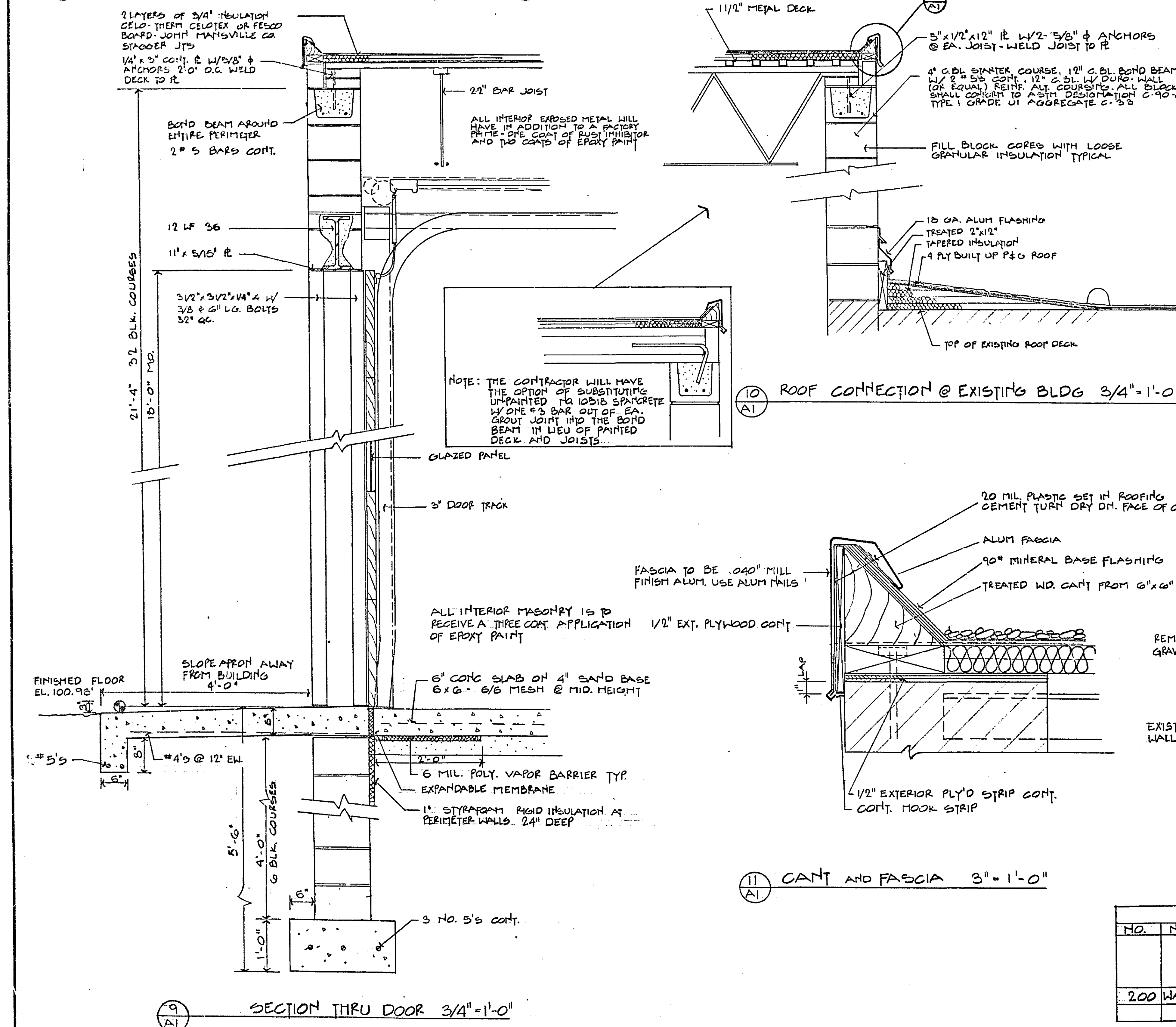
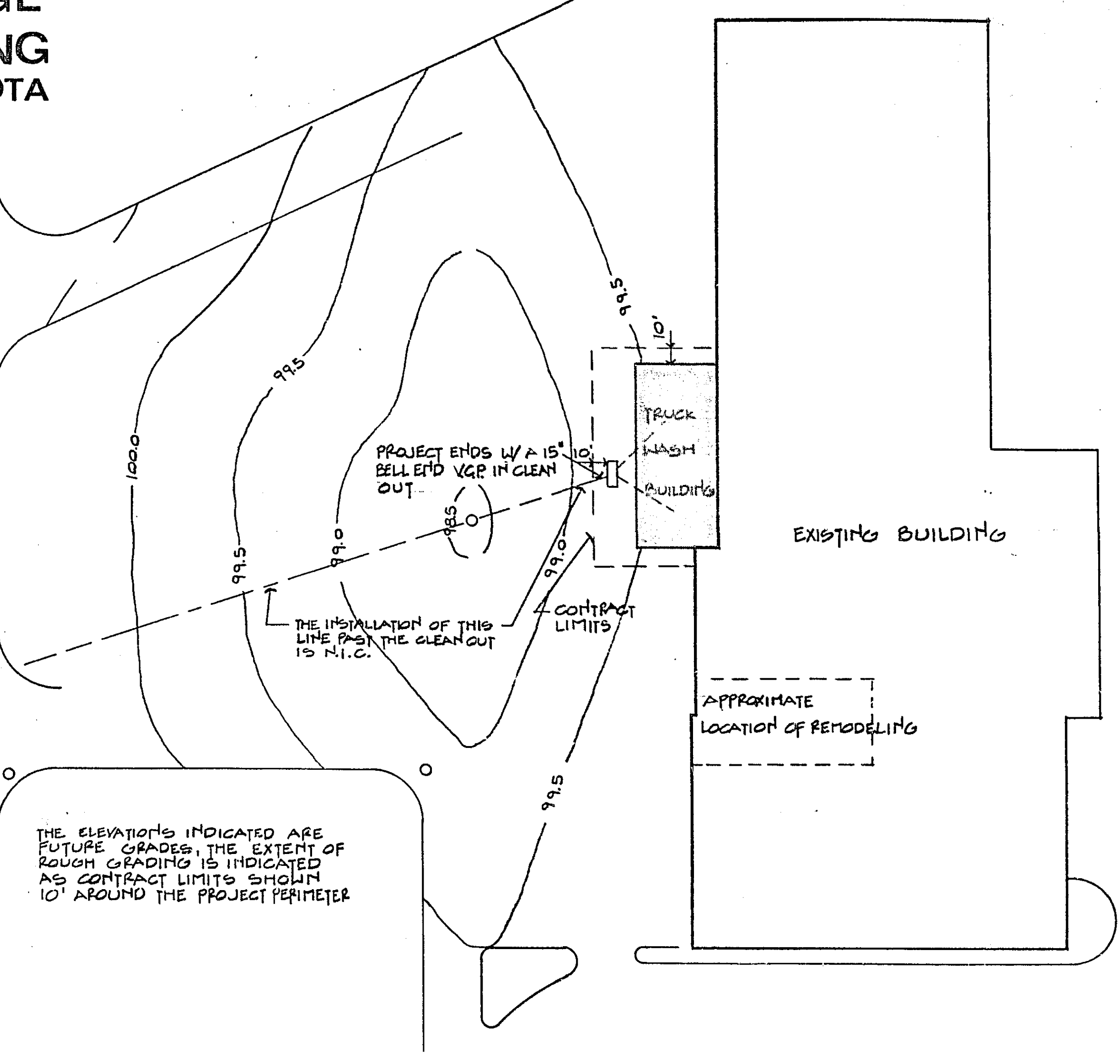
B.M. 103.34' SPIKE IN POWER POLE
SOUTH WEST CORNER OF COUNTY LOT



PLAN OF CLEAN OUT 1/4"=1'-0"



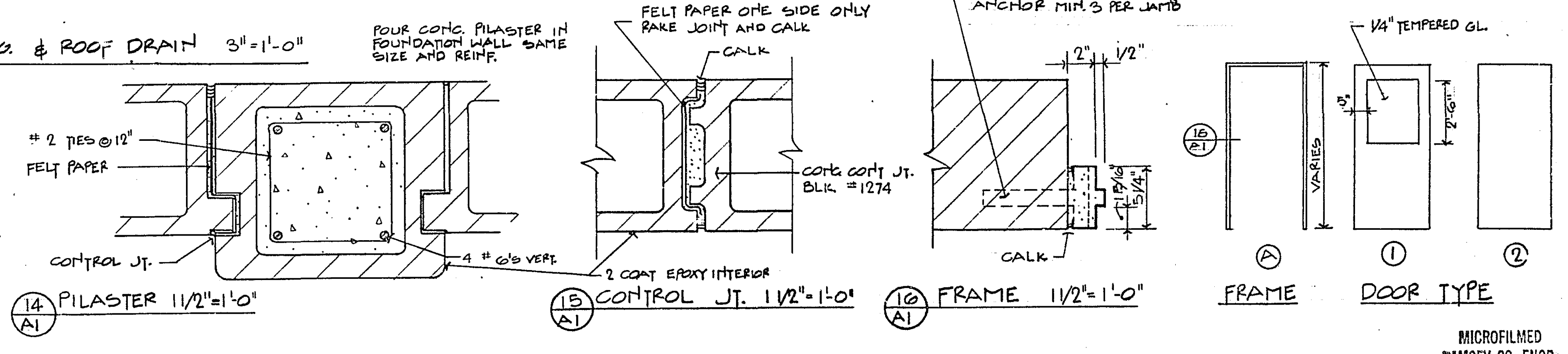
SITE PLAN 1"=50'



SEE MECH. FOR DRAIN LOCATION
AND SIZE. DRAIN DETAIL SHOWN
ON WASH BLDG. ROOF

DOOR SCHEDULE					
NO.	SIZE	TYPE	FRAME	CONST.	HOW
200A	3'-0" x 6'-8" x 1 3/4"	I	A	HM	I
200B	3'-0" x 6'-8" x 1 3/4"	I	A	HM	I

ROOM FINISH SCHEDULE										
NO.	NAME	FLOOR	BASE	WALLS	CEILING	REMARKS				
200	WASH BLD.	1	4	7	10	CLG. EXPOSED IF CONC. DECK IS USED				



I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED ARCHITECT OR ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

PROJECT NUMBER
68-9
DATE 26 AUG 68
DRAWN TLD
CHECKED

RAMSEY COUNTY HIGHWAY GARAGE
TRUCK WASHING ADDN AND REMODELING
SAINT PAUL, MINNESOTA

THE CERNY ASSOCIATES INC
ARCHITECTURE • ENGINEERING • PLANNING
MAIN OFFICES • MINNEAPOLIS AND SAINT PAUL, MINNESOTA

MICROFILMED
RAMSEY CO. ENGR.

MECHANICAL SPECIFICATIONS

GAS PIPING - CONTRACTOR SHALL PROVIDE A 1-1/4" GAS LINE TO THE DOMESTIC WATER HEATER FROM THE NEAREST GAS PIPING. IF THE NEAREST PIPING IS FARTHER THAN 60 FEET THE GAS LINE SIZE SHALL BE INCREASED TO 1-1/2". GAS PIPING SHALL BE BLACK STEEL WITH WELDED FITTINGS.

WATER PIPING - ALL DOMESTIC WATER PIPING ABOVE GRADE SHALL BE TYPE "L" HARD COPPER WITH SWEAT FITTINGS UP TO 1/2" IN SIZE. UNDERGROUND PIPING SHALL BE TYPE "K" SOFT COPPER WITH FLARED FITTINGS.

ROOF DRAIN PIPING - SHALL BE SCHEDULE 40 GALVANIZED STEEL PIPE WITH GALVANIZED THREADED FITTINGS.

STEAM AND CONDENSATE RETURN PIPING - SHALL BE SCHEDULE 40 BLACK STEEL PIPE WITH BLACK CAST IRON FITTINGS OF 125 PSI STEAM WORKING PRESSURE.

WASTE AND VENT PIPING - ALL WASTE PIPING BELOW GRADE SHALL BE EXTRA HEAVY CAST-IRON PIPE WITH CAULKED FITTINGS.

INSULATION - DOMESTIC WATER PIPING AND ROOF DRAIN PIPING SHALL BE INSULATED WITH 1/2" FIBERGLASS INSULATION WITH WHITE FRA #100. INSULATION SHALL BE SIMILAR AND EQUAL TO BALDWIN-EHRET-HILL "MONO-COVER".

STEAM PIPING SHALL BE 1" FIBERGLASS WITH 6 OZ. PASTED CANVAS JACKET. CONDENSATE RETURN PIPING SHALL BE INSULATED THE SAME AS FOR THE STEAM PIPING EXCEPT THAT INSULATION THICKNESS SHALL BE 3/4".

DOMESTIC WATER STORAGE TANK SHALL BE INSULATED WITH 2" OF THREE-POUND DENSITY FIBERGLASS BLANKET WIRED ON, THEN 1/2" MINIMUM GEN SUPERPOURHOUSE CEMENT AND 6 OZ. PASTED CANVAS.

HOSE RACKS - SHALL BE STANDARD NO. 85 USG COMPLETE WITH TYPE W WALL BRACKET, 50' OF 1-1/2" HOSE AND NO. 134 VALVE.

PLUMBING FIXTURE SCHEDULE

DESIG.	TYPE	MFG. NO.	CONNECTIONS C. W. H. W. WASTE	FIXTURE MOUNTING HEIGHT
P-1	FLOOR MOUNTED FLUSH TANK WATER CLOSET	AMERICAN STANDARD "ELONGATED COMPACT" NO. F-2352 COMPLETE WITH BLACK OPEN FRONT SEAT WITHOUT COVER AND SUPPLY PIPE	1/2" - 4"	-
P-2	WALL HUNG FLUSH VALVE, URINAL	AMERICAN STANDARD "WASHROOM" F-6500 COMPLETE WITH NO. 451 DELAUX FLUSHBOY VALVE AND JOSAM C-220 CARRIER	3/4" - 2"	24" TO RIM
P-3	36" DIAMETER WASHFOUNTAIN	BRADLEY TYPE AFS PRECAST STONE, COMPOSITION TO BE SELECTED BY ARCHITECT. COMPLETE W/COMBINATION STOP, STRAINER & CHECK VALVE	1" - 1"	29-1/4" TO RIM
P-4	SHOWER	FLAT "CABINET" MODEL 27 COMPLETE WITH STANDARD TUB AND ENCLOSED TOP WITHOUT DOME LIGHT. COLOR TO BE SELECTED BY ARCHITECT	1/2" 1/2" 2"	66" TO SHOWER HEAD TO FIT TRUCK WASH UNIT (COORDINATE W/OWNER)
H.B.	HOSE BIBB	CHICAGO FAUCET NO. 998	3/4" 3/4" -	-
S.S.	24" x 20" SERVICE SINK	AMERICAN STANDARD "ARGO" P-7705 COMPLETE WITH R-5001 VB SUPPLY FITTING AND TRAP	1/2" 1/2" 3"	-
D-1	FLOOR DRAIN	JOSAM 302-35C	- - 2"	-
D-2	FLOOR DRAIN	JOSAM 604 COMPLETE	- - 4"	-
R.D.	ROOF DRAIN	JOSAM SERIES NO. 4110 COMPLETE WITH FLASHING CLAMP DEVICE AND DECK CLAMP	- - 3" or 4" AS SHOWN	-

UNIT HEATER SCHEDULE

DESIG.	TYPE	CAPACITY	ENT. AIR TEMP.	STEAM PRESS.	FAN CFM	POWER V PH HZ	MOTOR HP RPM	MFG. NO.
UH-1	HORIZONTAL DISCHARGE UNIT HEATER	132,500	60°F	2 PSIG	2,000	120 1 60	1/4 1150	WING SIZE 19-4 UTILITY W/DEFLECTOR VALVES
UH-2	VERTICAL DISCHARGE MAKE-UP AIR HEATER	278,000	-10°F	- PSIG	2,750	120 1 60	1/3 1150	WING SIZE 22 TYPE PAS-HCK W/NO. 5R OUTLET AND STYLE C INTAKE HOOD WITH BIRD SCREEN AND ROOF CURB. UNIT SHALL BE PROVIDED WITH ROOM THERMOSTAT CONTROLS AND LOW LIMIT.

HOT WATER STORAGE TANK SCHEDULE (TO BE FURNISHED BY TRUCK WASH EQUIPMENT SUPPLIER)

TYPE	CAPACITY	DIMENSIONS	CODE PRESSURE	MATERIAL	RELIEF VALVE	INSULATION	MFG. NO.
VERTICAL DOMESTIC WATER STORAGE TANK	185 GALLONS	30" DIA. 60" HIGH	125 PSIG	STEEL	WATTS 241X-B T & P RELIEF VALVE	SEE SPECS	RECO "ENDULINED" VERTICAL STORAGE TANK. COMPLETE W/ANGLE LEGS AND SUPPORTING PLATE

CIRCULATING PUMP SCHEDULE

DESIG.	TYPE	GPM	HEAD	POWER V PH HZ	MOTOR HP RPM	STARTER	IMPELLER MATERIAL	VOLUME MATERIAL	MFG. NO.
CP	IN-LINE CENTRIFUGAL	36	18	120 1 60	1/3 1750	AQUASTAT BY H.C.	BRONZE	BRONZE	BELL & GOSSETT SIZE 1 1/2" AA WITH 4-3/4" IMPELLER

EXHAUST FAN SCHEDULE

DESIG.	TYPE	CFM	STATIC PRESS.	MAX. TIP SPEED	POWER V PH HZ	MOTOR HP RPM	BACKDRAFT DAMPER	STARTER	MFG. NO.
EF-1	CENTRIFUGAL UTILITY SET	1,680	3/8"	2000	120 1 60	1/4 1750	FURNISH	BY E.C. 2-SPEED	TRANE NO. 1363 UPBLAST UTILITY SET COMPLETE
EF-2	POWER ROOF EXHAUSTER	5,200	1/4"	3400	240 3 60	1 1800/900	FURNISH	BY M.C.	FERN DUXIE MODEL RU-300 COMPLETE

STEAM SPECIALTIES - STRAINERS AND F & T TRAPS SHALL BE HOFFMAN, TRANE, WEBSTER OR APPROVED EQUAL. VACUUM BREAKERS SHALL BE HOFFMAN NO. 60 OR APPROVED EQUAL.

SHEET METAL DUCTWORK - SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH THE LATEST RECOMMENDATIONS OF THE ASHRAE GUIDE.

TEMPERATURE CONTROL - ALL TEMPERATURE CONTROLS SHALL BE HONEYWELL, POWERS, OR JOHNSON. UNIT HEATERS #1 SHALL BE CONTROLLED BY HONEYWELL TAA2 SPACE STAT WHICH CYCLE THE FAN MOTORS. HONEYWELL LA409B STRAP ON AQUASTATS SHALL PREVENT UNIT HEATER OPERATION UNLESS STEAM IS AVAILABLE.

A SUMMER SWITCH SHALL ALLOW CONTINUOUS FAN OPERATION. CONTROL ITEMS FOR UNIT HEATER #2 SHALL BE FURNISHED WITH THE UNIT AND SHALL BE AS RECOMMENDED BY THE UNIT MANUFACTURER. CONTROL SHALL INCLUDE ROOM THERMOSTAT OVERRIDING LOW LIMIT THERMOSTAT TO PREVENT DISCHARGE TEMPERATURE FALLING BELOW THE DESIRED MINIMUM. AND AQUASTAT TO PREVENT UNIT OPERATION UNLESS STEAM IS AVAILABLE. A SUMMER SWITCH SHALL ALLOW CONTINUOUS FAN OPERATION.

AN AQUASTAT LOCATED IN THE DOMESTIC WATER STORAGE TANK SHALL CYCLE THE CIRCULATING PUMP TO MAINTAIN WATER TEMPERATURE AT AQUASTAT SETTING.

ALL CONTROL WORK SHALL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR.

REGISTER AND GRILLE SCHEDULE

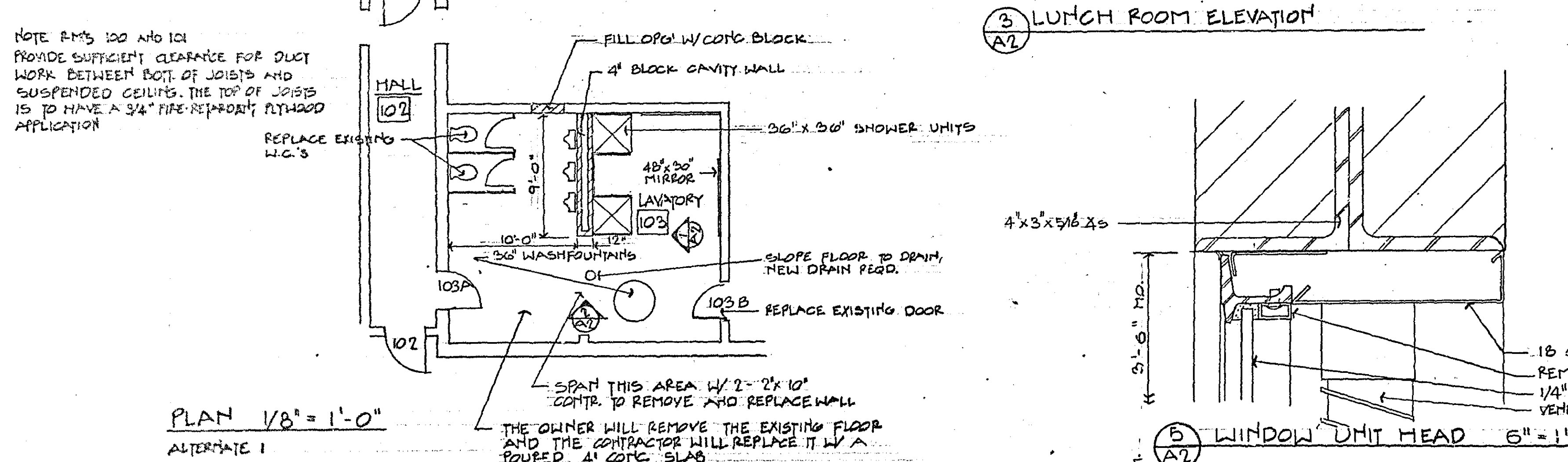
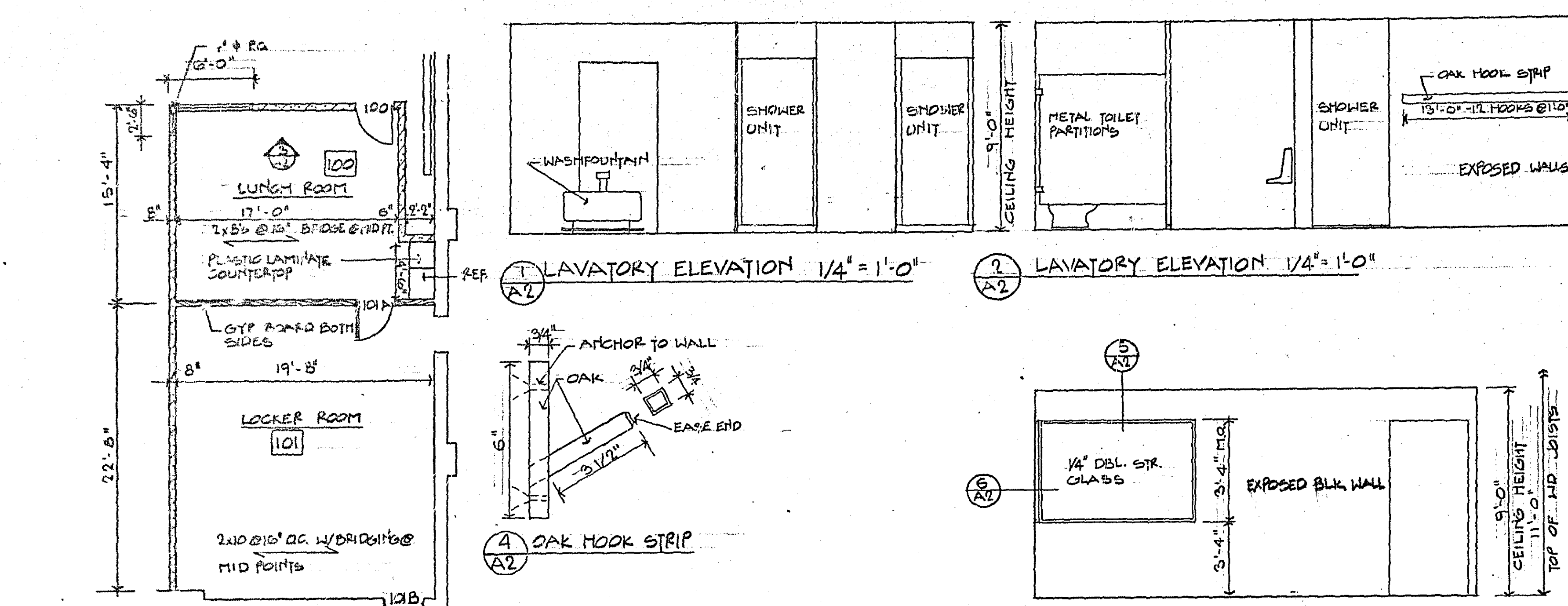
DESIG.	TYPE	SIZE	QUADRANT DAMPER	MFG. NO.	REMARKS
R-1	CEILING REGISTER	10" x 8"	FURNISH	CARNES NO. 500V	NO. 27 FINISH
R-2	CEILING REGISTER	12" x 8"	FURNISH	CARNES NO. 500V	NO. 27 FINISH
R-3	CEILING REGISTER	12" x 12"	FURNISH	CARNES NO. 500V	NO. 27 FINISH

WATER HEATER SCHEDULE

TYPE	STORAGE	RECOVERY @100° RISE	INPUT BTU	MFG. NO.
GAS FIRED WATER HEATER	75 GALLON	307 GPH	365,000	A.O. SMITH MODEL GC-307 COMPLETE WITH WATTS 241X-B T & P RELIEF VALVE

LIGHT FIXTURE SCHEDULE

MARK	MANUF.	CATALOG NO.	LAMPS	MOUNTING
A	HOLOPHANE	C-668	2-100A	CEILING SURFACE
B	HOLOPHANE	7100-4-SA	2-FAUW	PENDANT FLUSH W/JOINT
C	HOLOPHANE	40B	1-200A	WALL-OVER DOOR



ROOM FINISH SCHEDULE ALTERNATE 1

NO.	ROOM	FLOOR	BASE	WALL	CEILING	REMARKS
100	LUNCH RM.	3	5	11	13	9'0"
101	LOCKER	3	5	11	13	9'0"
102	HALL	3	5	11	13	9'0"
103	LAUNDRY	3	5	11	14	9'0" NEW 4" CONC. SLAB

DOOR SCHEDULE ALTERNATE 1

NO.	SIZE	TYPE	FRAME	COMB. HDW.	REMARKS
100	3'-0" x 6'-8 1/2"	2	A	PLAS.	3 PLASTIC FACED DOOR
101A	DO	2	A	PLAS.	3 DO
101B	DO	2	A	PLAS.	3 DO
102	DO	2	A	HIT	2 "B" LABEL DOOR
103A	DO	2	A	PLAS.	3 PLASTIC FACED DOOR
103B	DO	2	A	PLAS.	3 DO

