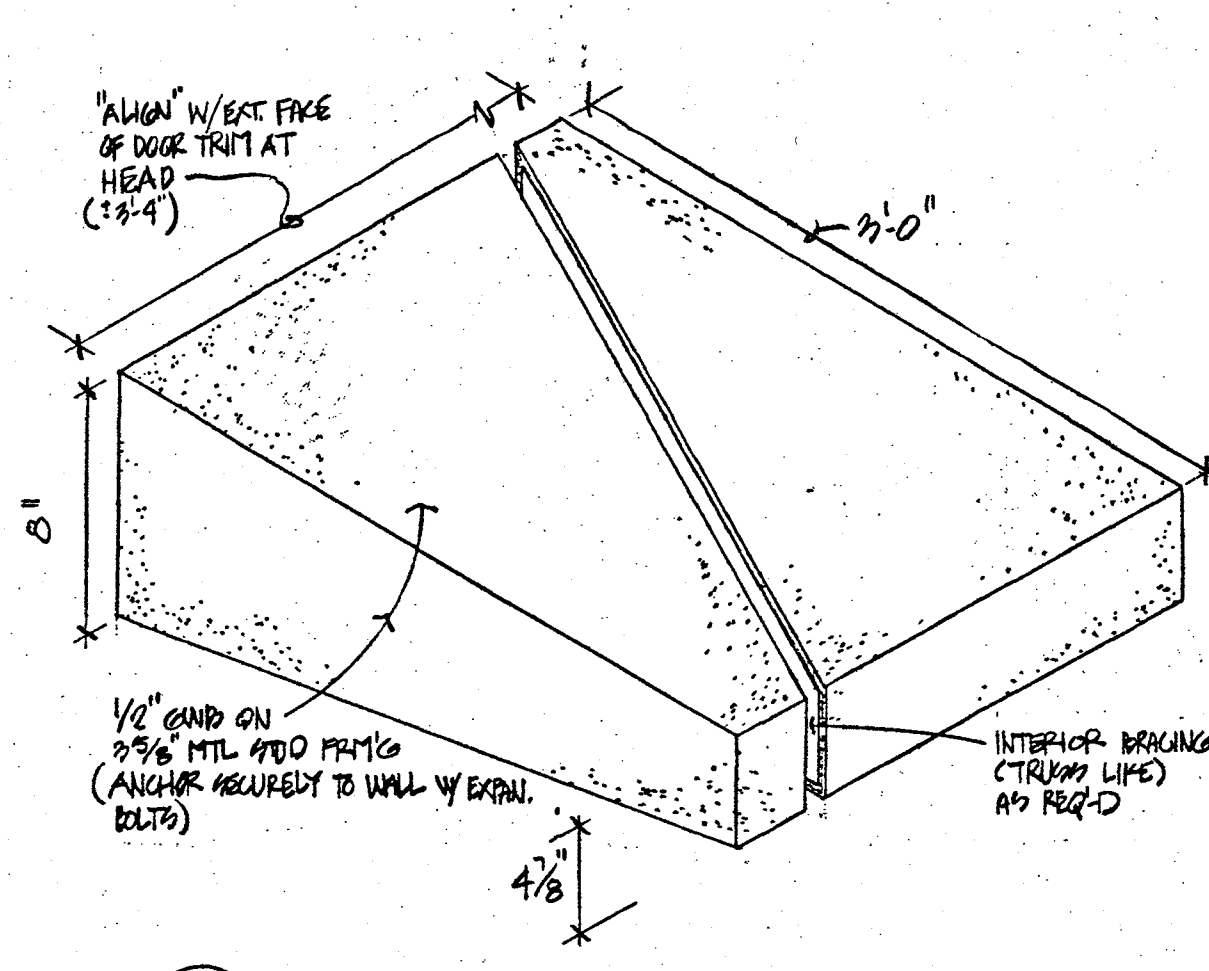


THE OFFICE OF WESTON WRIGHT ARCHITECTS  
299 NEWPORT AVENUE  
QUINCY, MASSACHUSETTS 02170

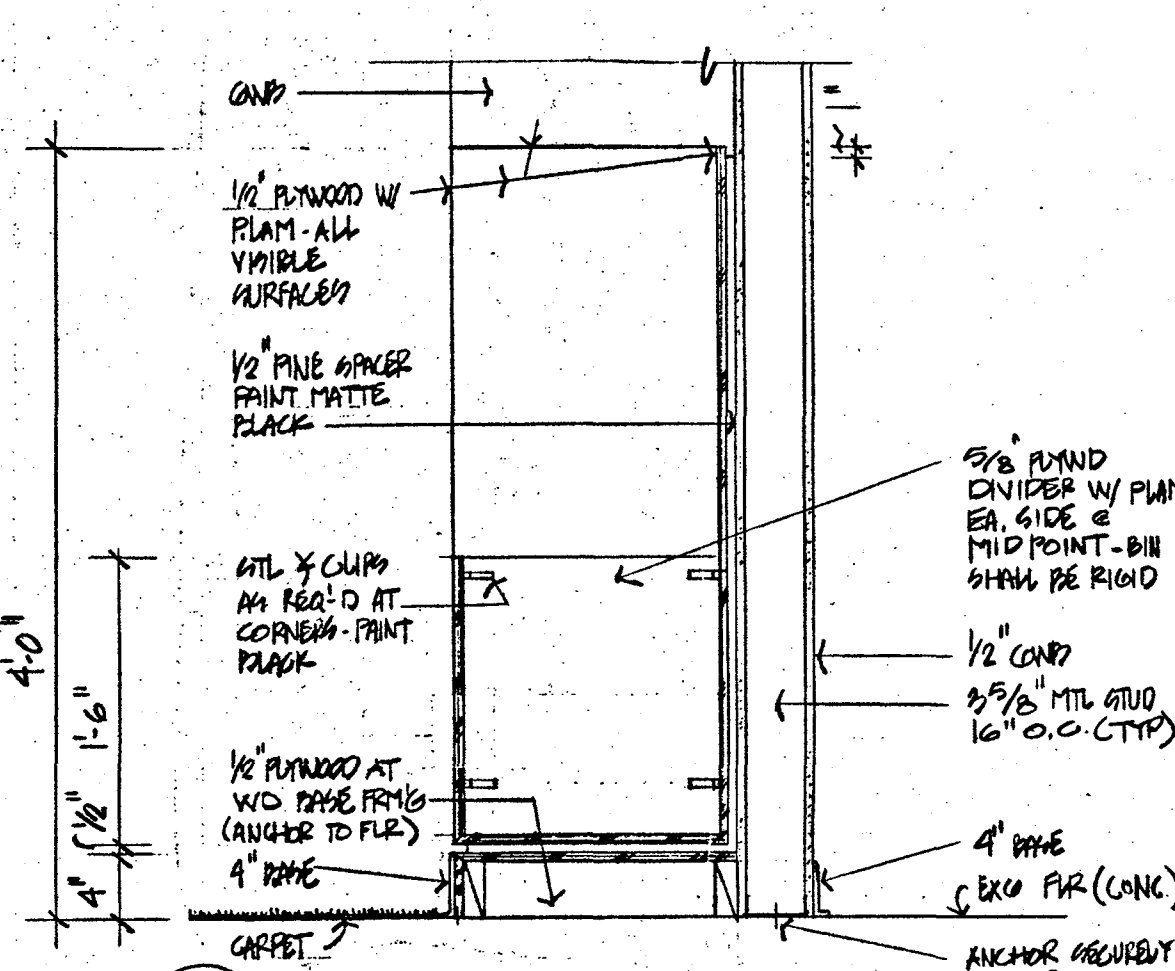
APPLIED IMAGE REPROGRAPHICS  
82 SAGAMORE STREET  
QUINCY, MASSACHUSETTS

MISC DETAILS  
Scale: As Shown Date: 8/29/94 Drawn: JWW Checked: JWW  
Remarks: PERMIT SET  
Date: Revision:

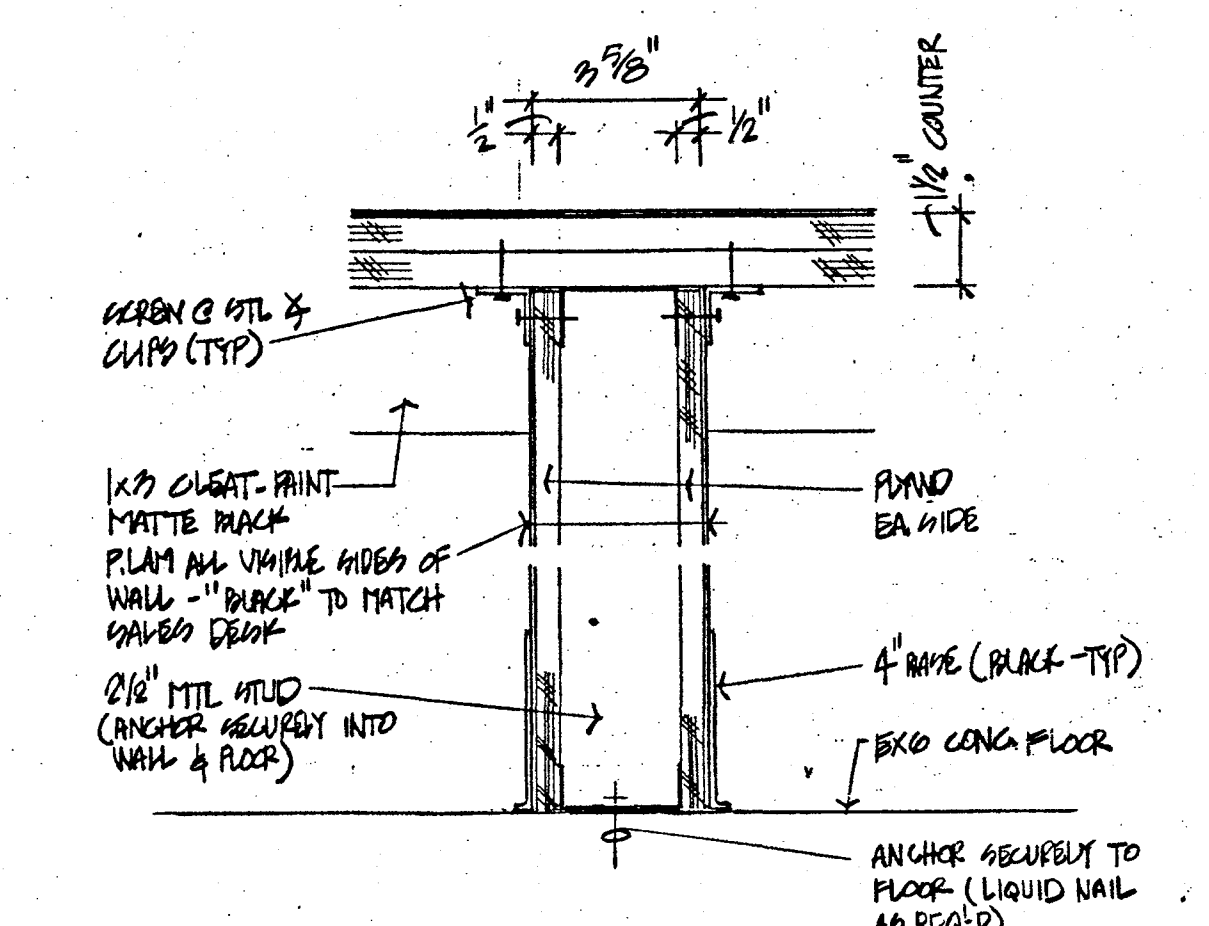
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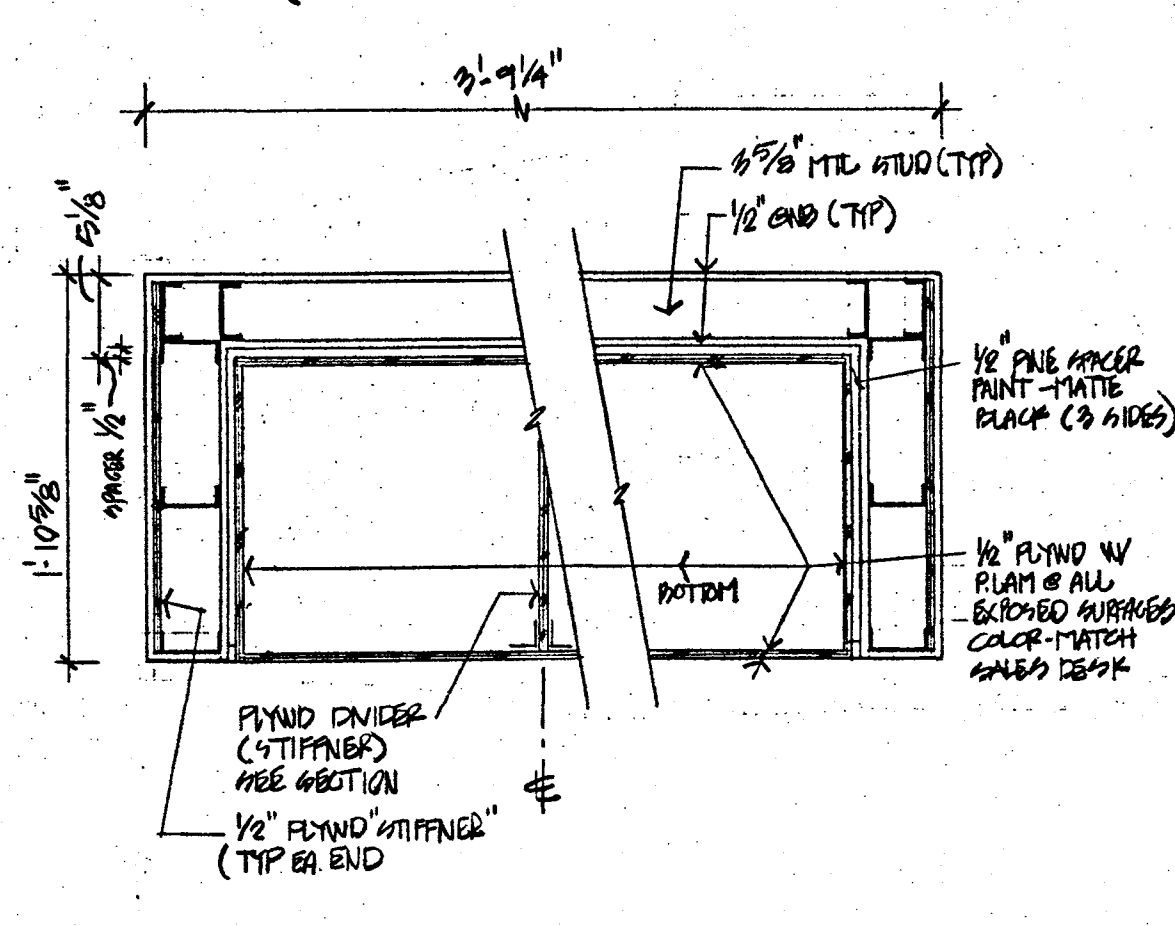
4 HOOD ISOMETRIC  
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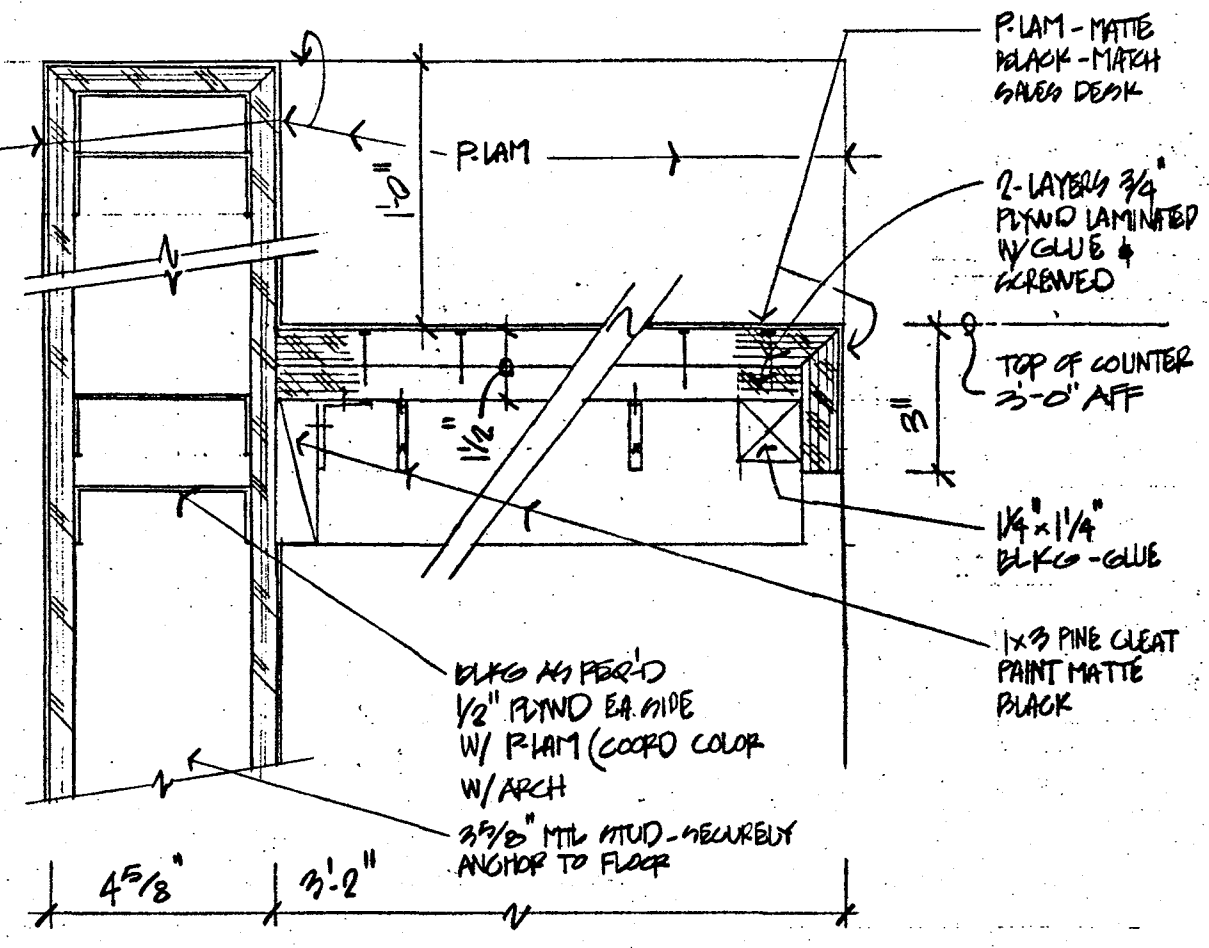
8 TUBE BIN - SECTION  
3'-11 1/2"  
(NOTE: SEE DETAIL #7 BELOW)



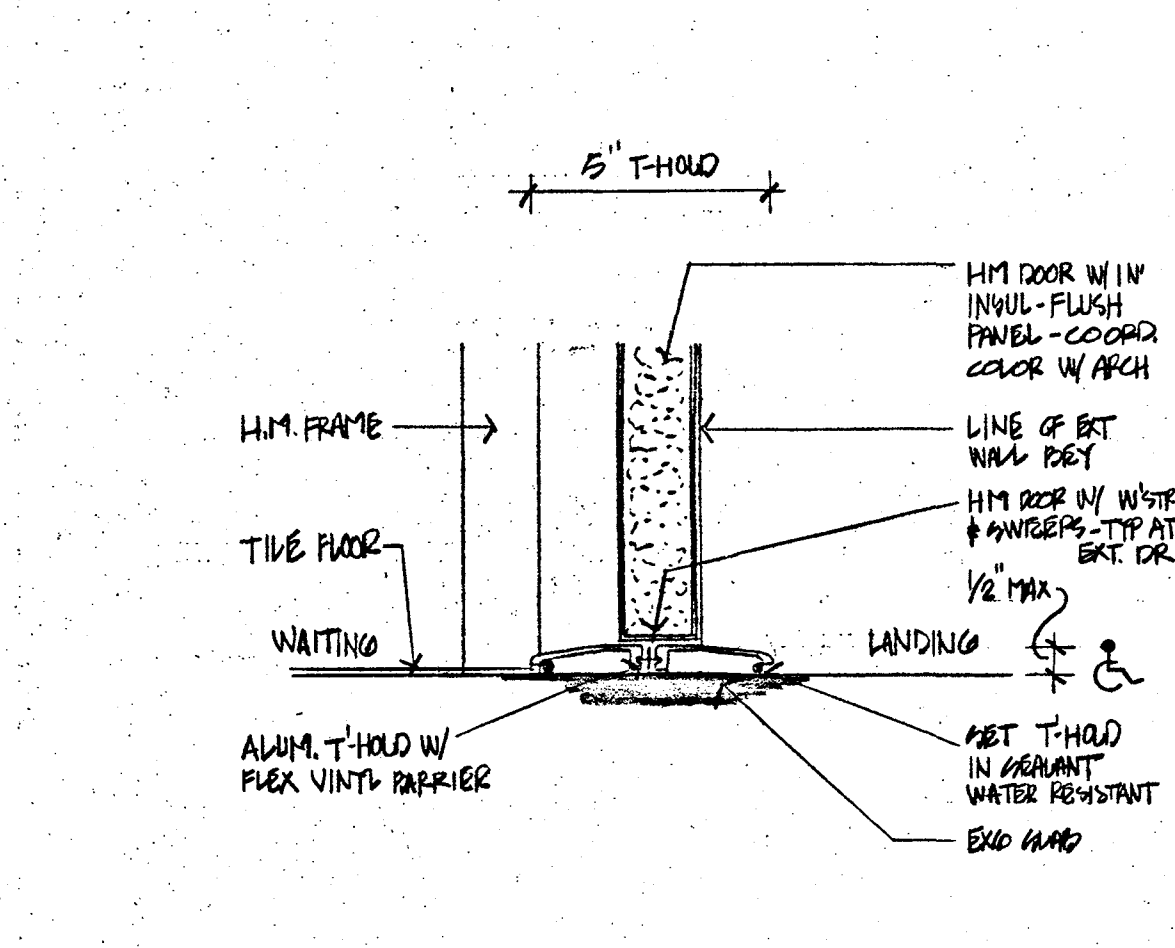
3 COUNTER SUPPORT  
3'-11 1/2"



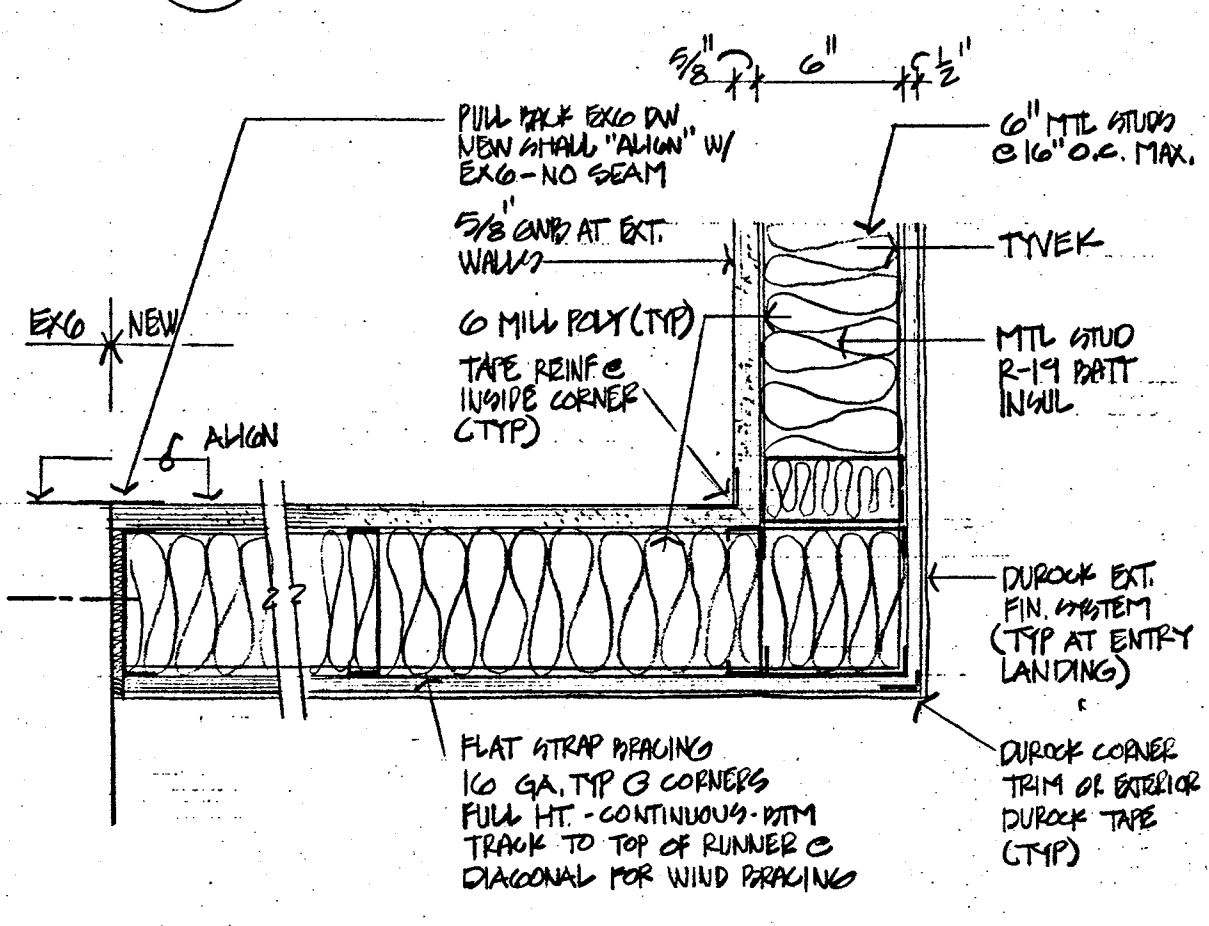
7 TUBE BIN - PLAN  
3'-11 1/2"



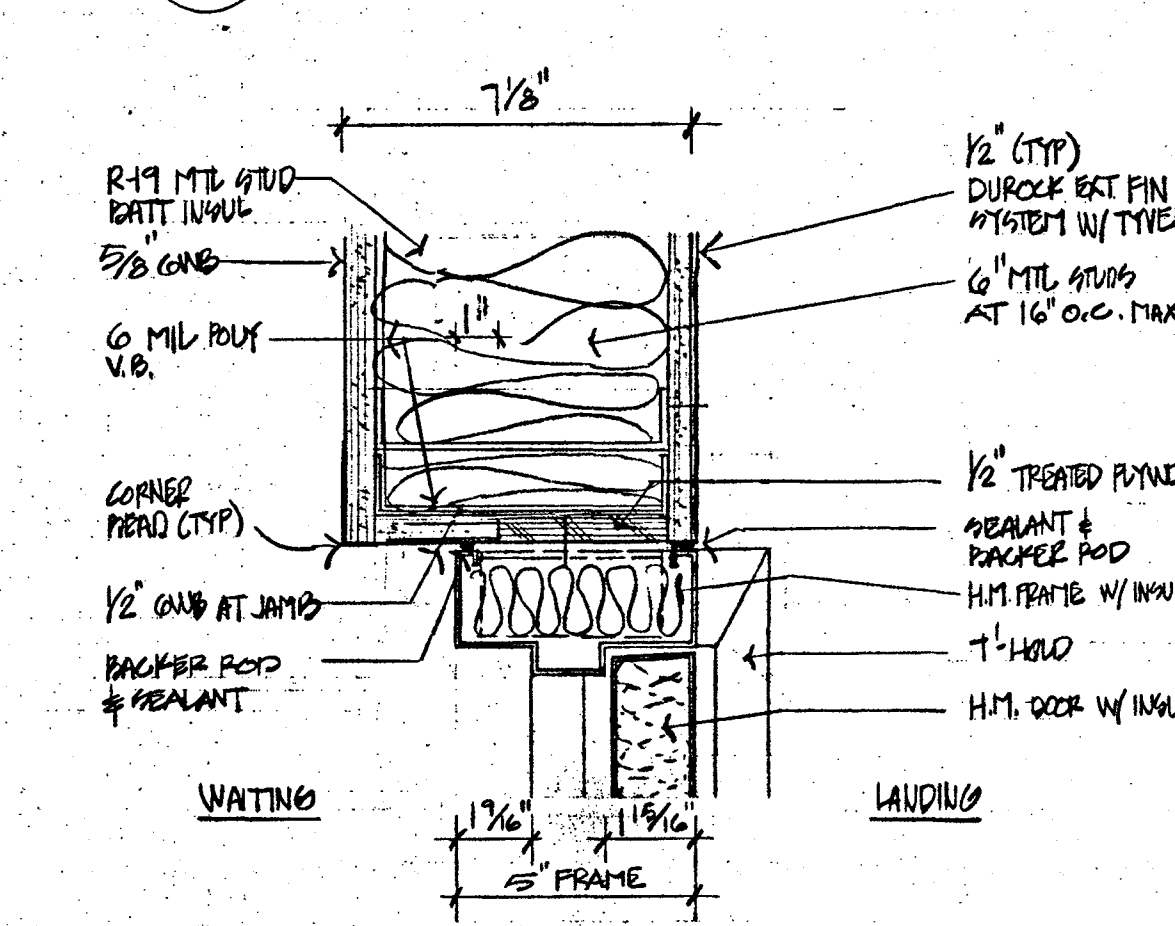
2 COUNTER (WRAPPING)  
3'-11 1/2"



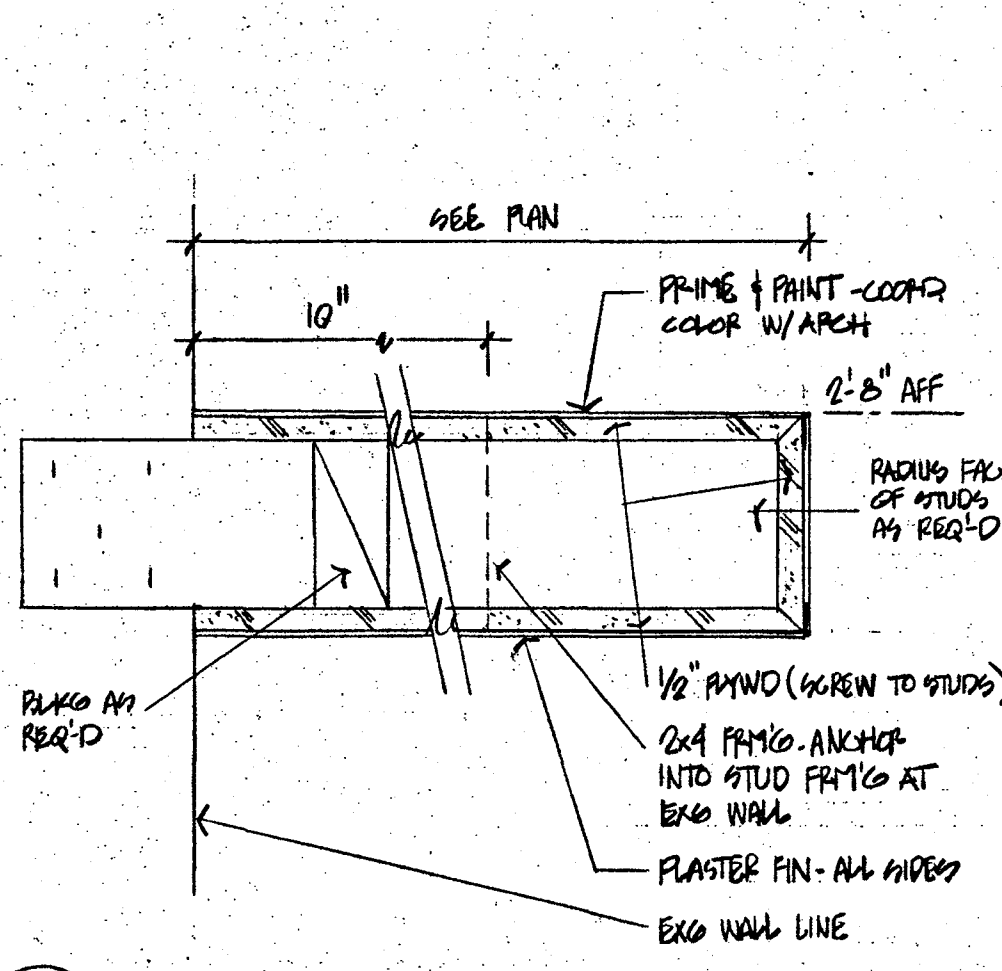
6 THRESHOLD  
3'-11 1/2"



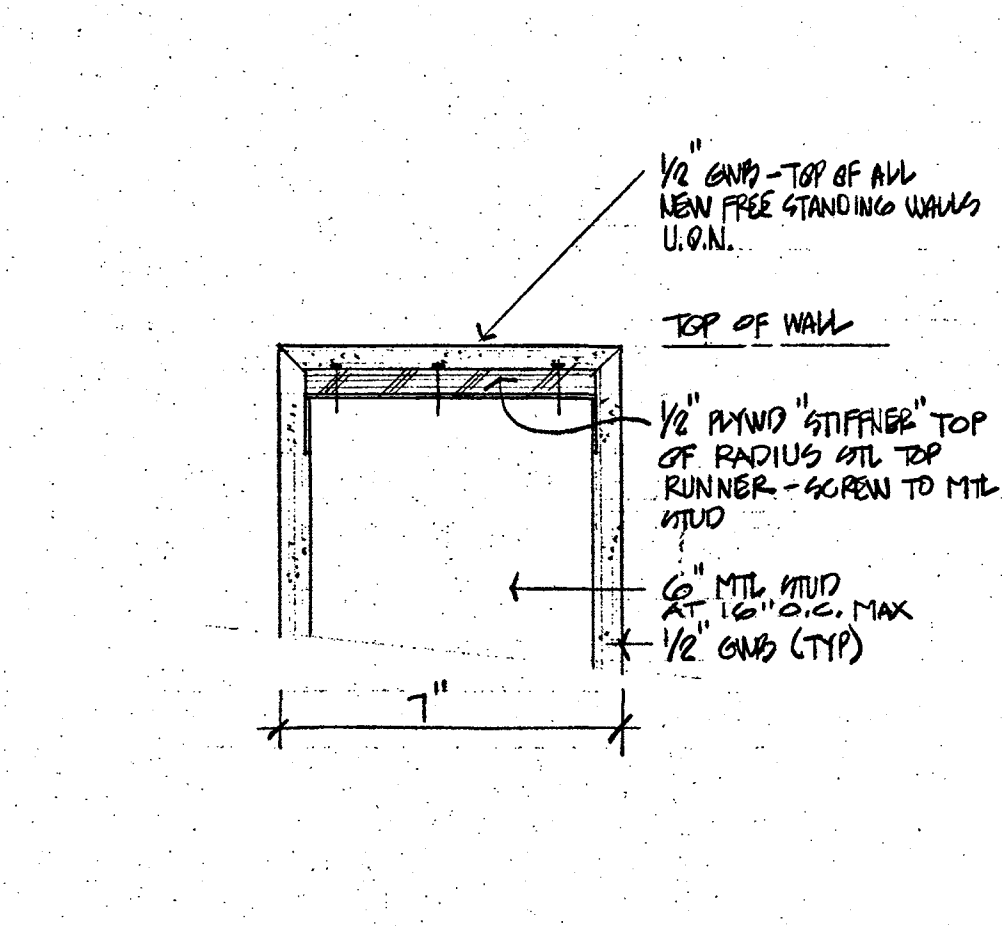
1 CORNER DETAIL  
1'-2" x 1'-0"



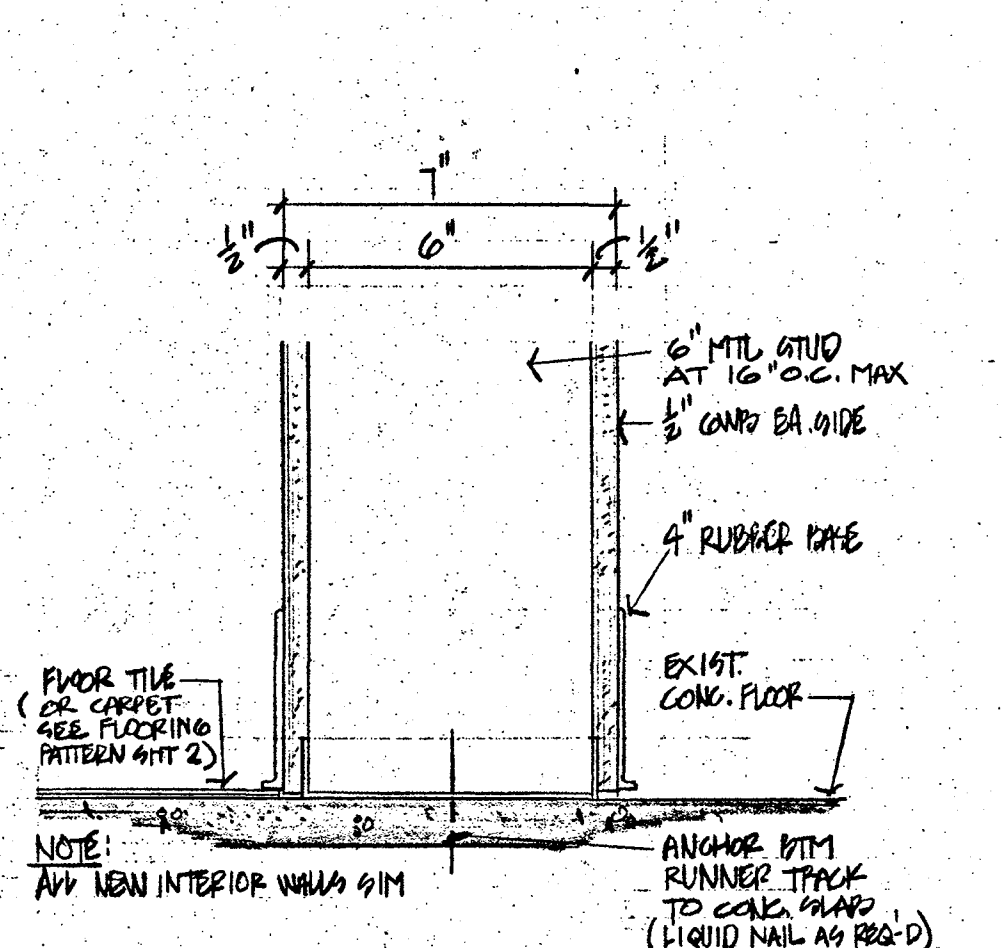
5 EXTERIOR DOOR  
3'-11 1/2"



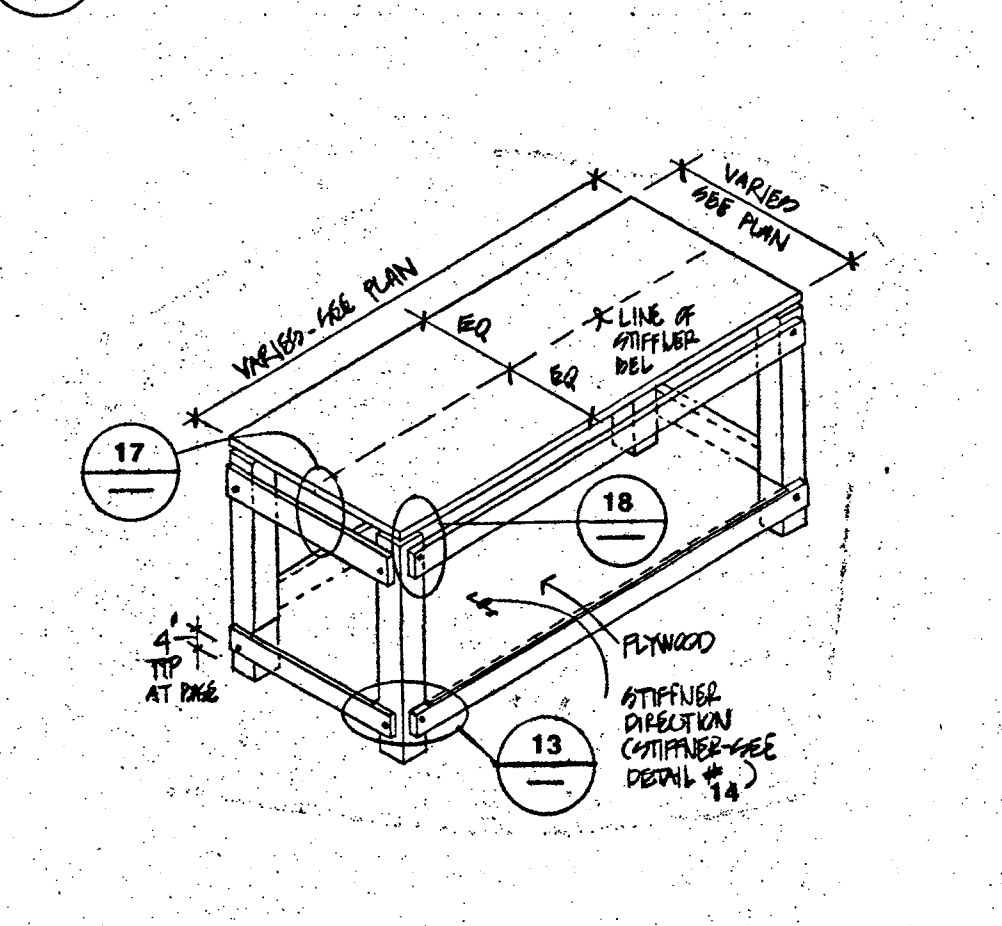
12 FLOWER SHELF  
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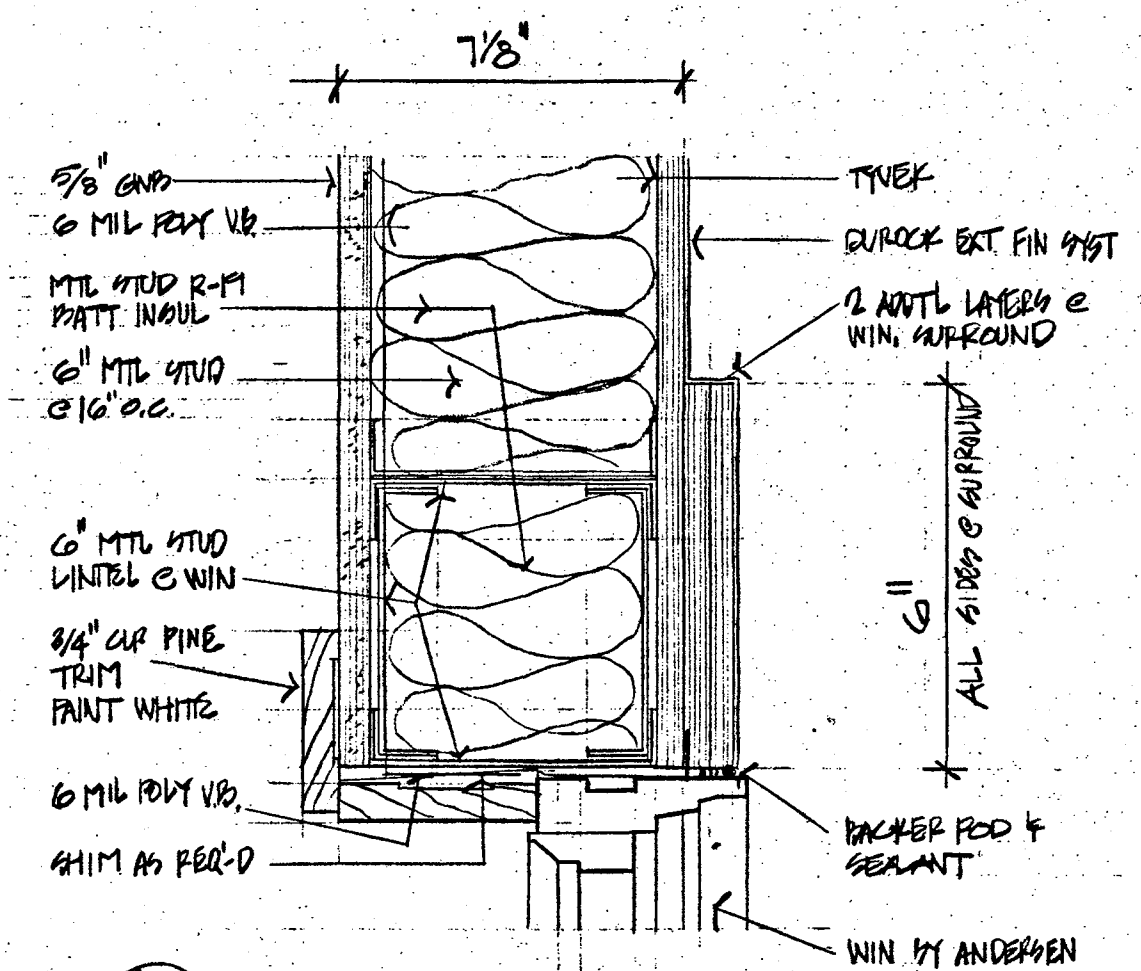
11 DETAIL-TOP OF WALL  
3'-11 1/2"



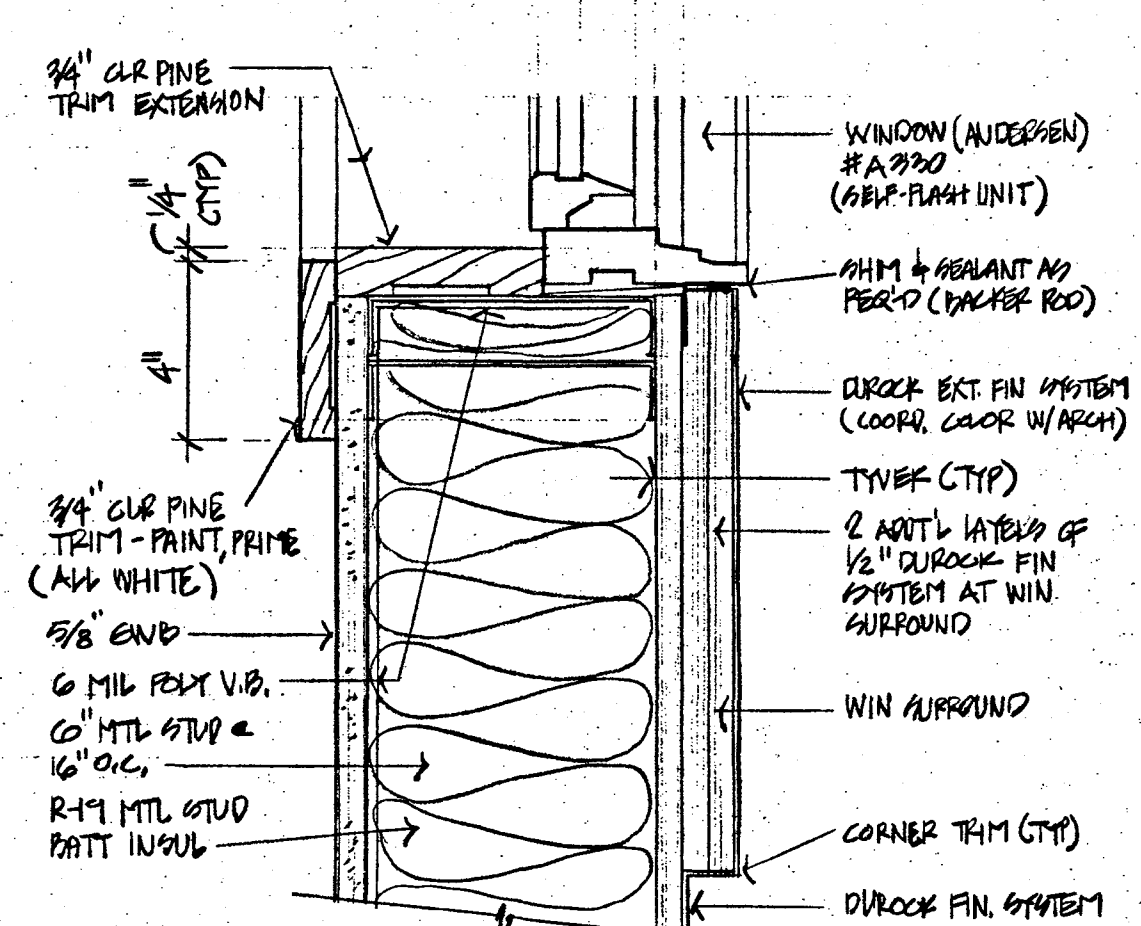
10 INTERIOR PARTITION  
3'-11 1/2"



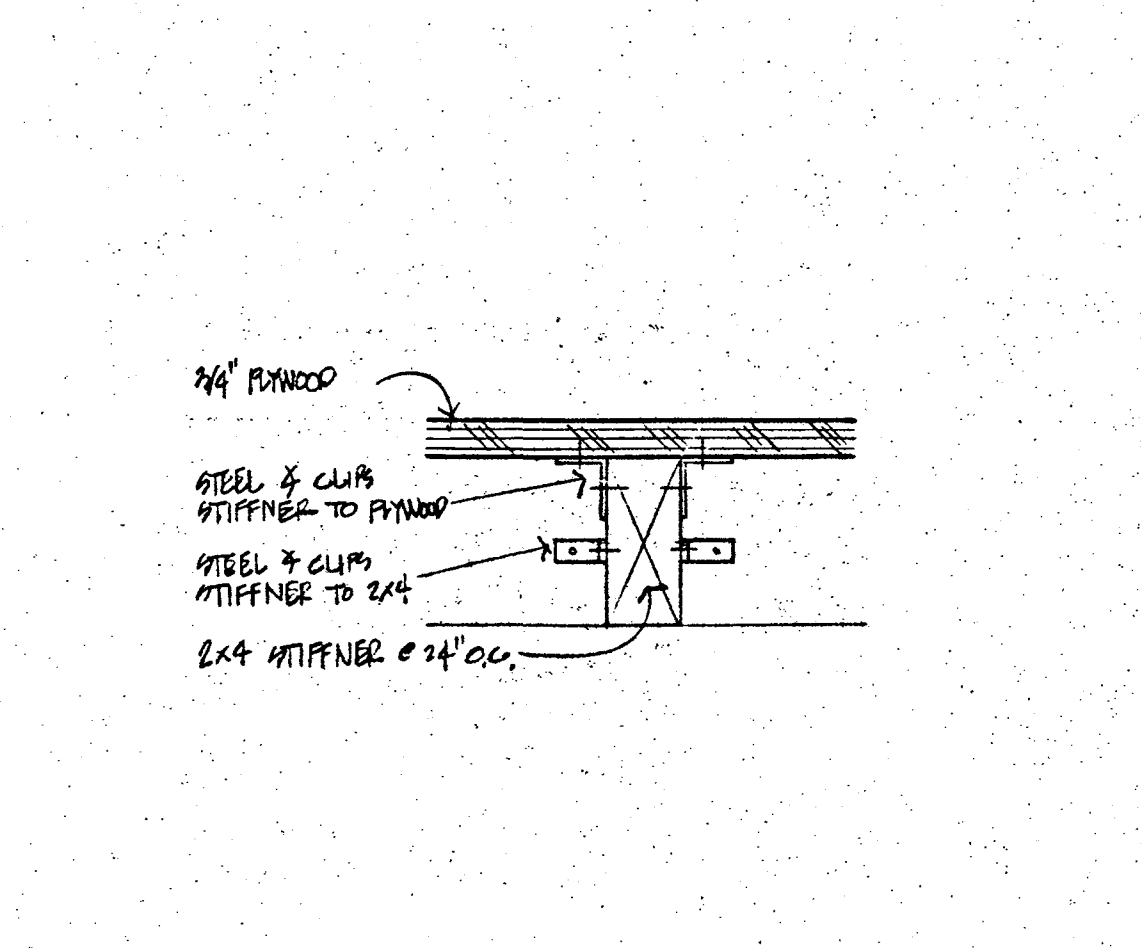
9 WORK TABLE  
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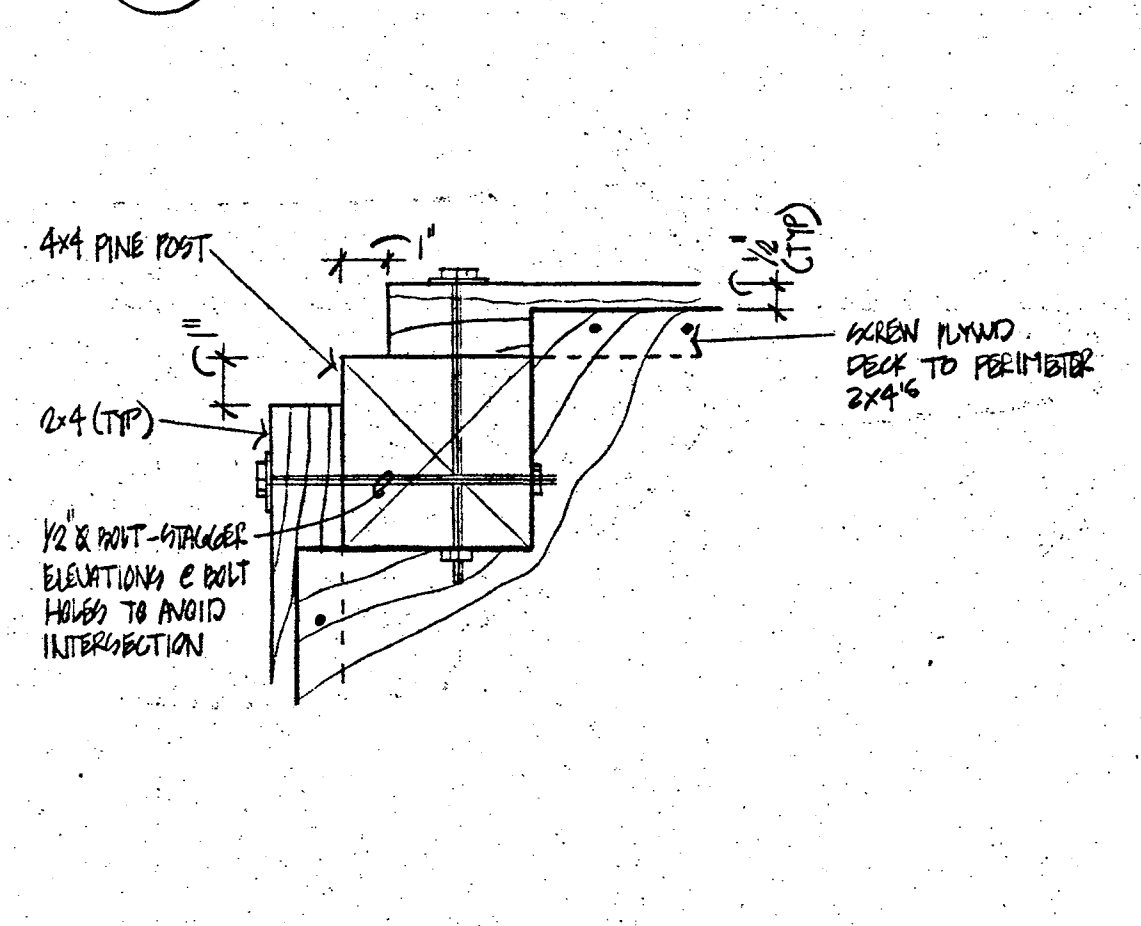
16 WINDOW HEAD  
3'-11 1/2"



15 WINDOW SILL  
3'-11 1/2"



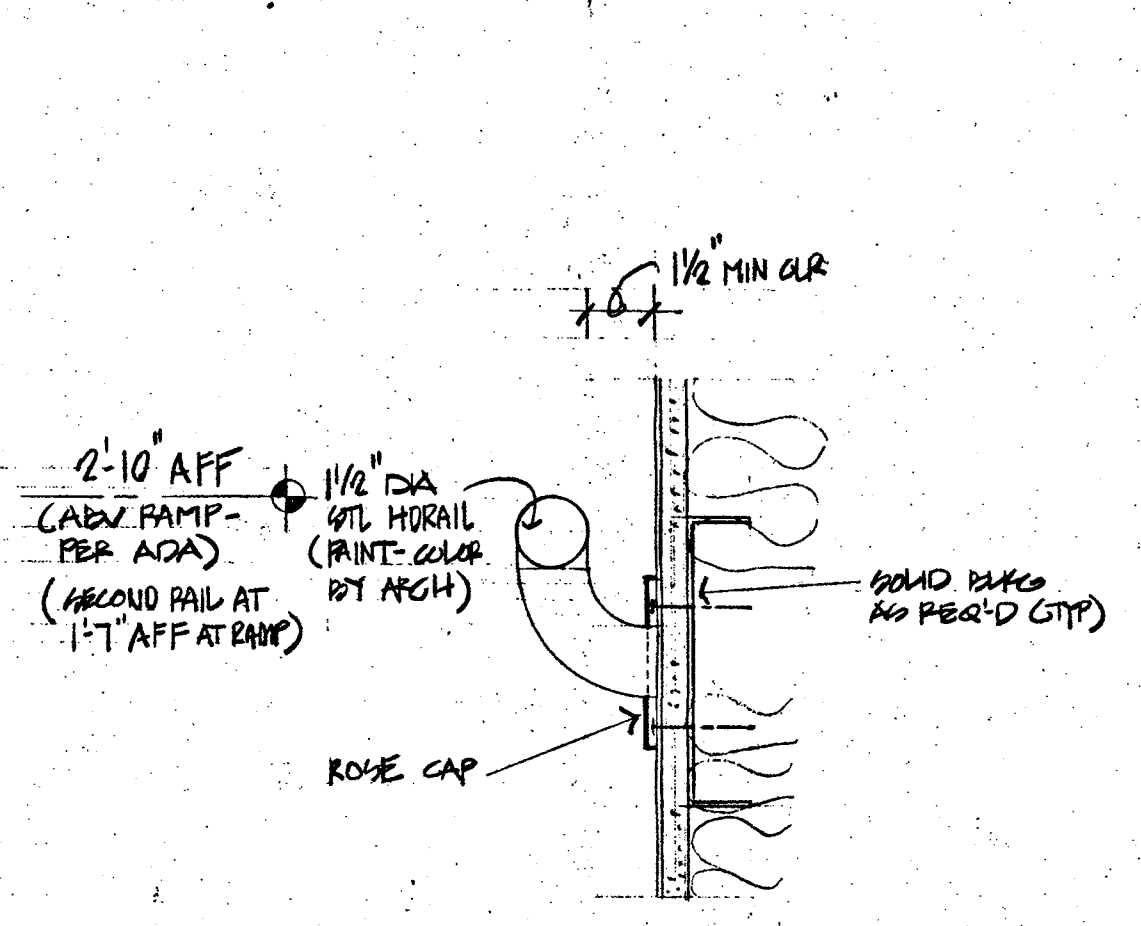
14 DETAIL  
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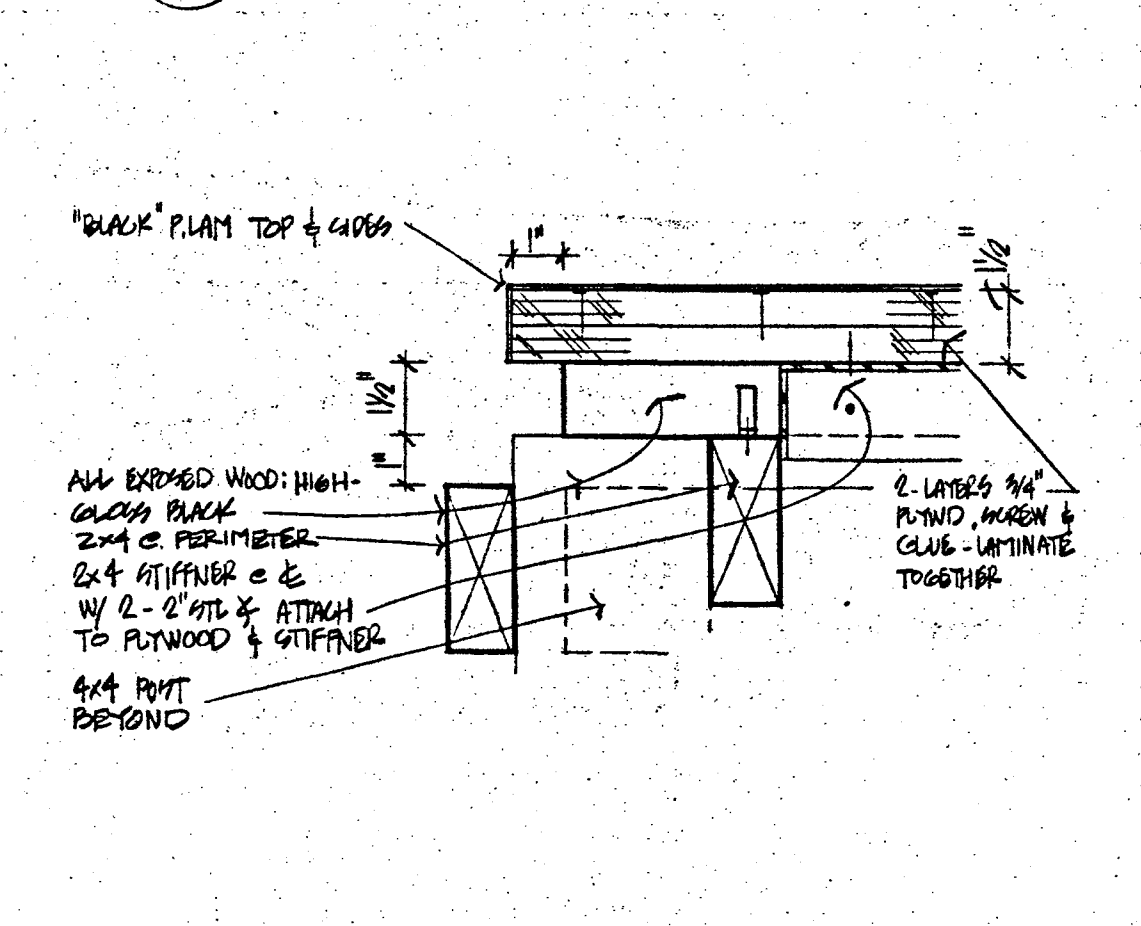
13 DETAIL  
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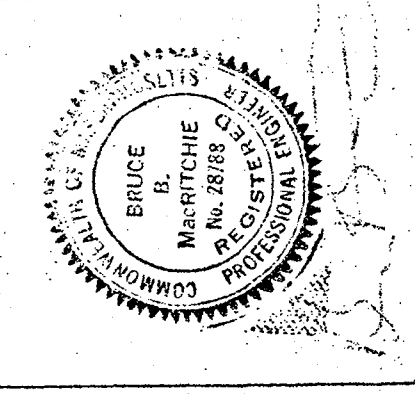
19 HANDRAIL  
3'-11 1/2"



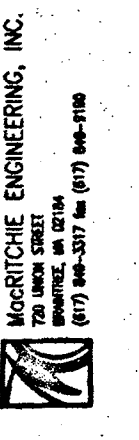
18 DETAIL  
3'-11 1/2"



17 DETAIL  
3'-11 1/2"



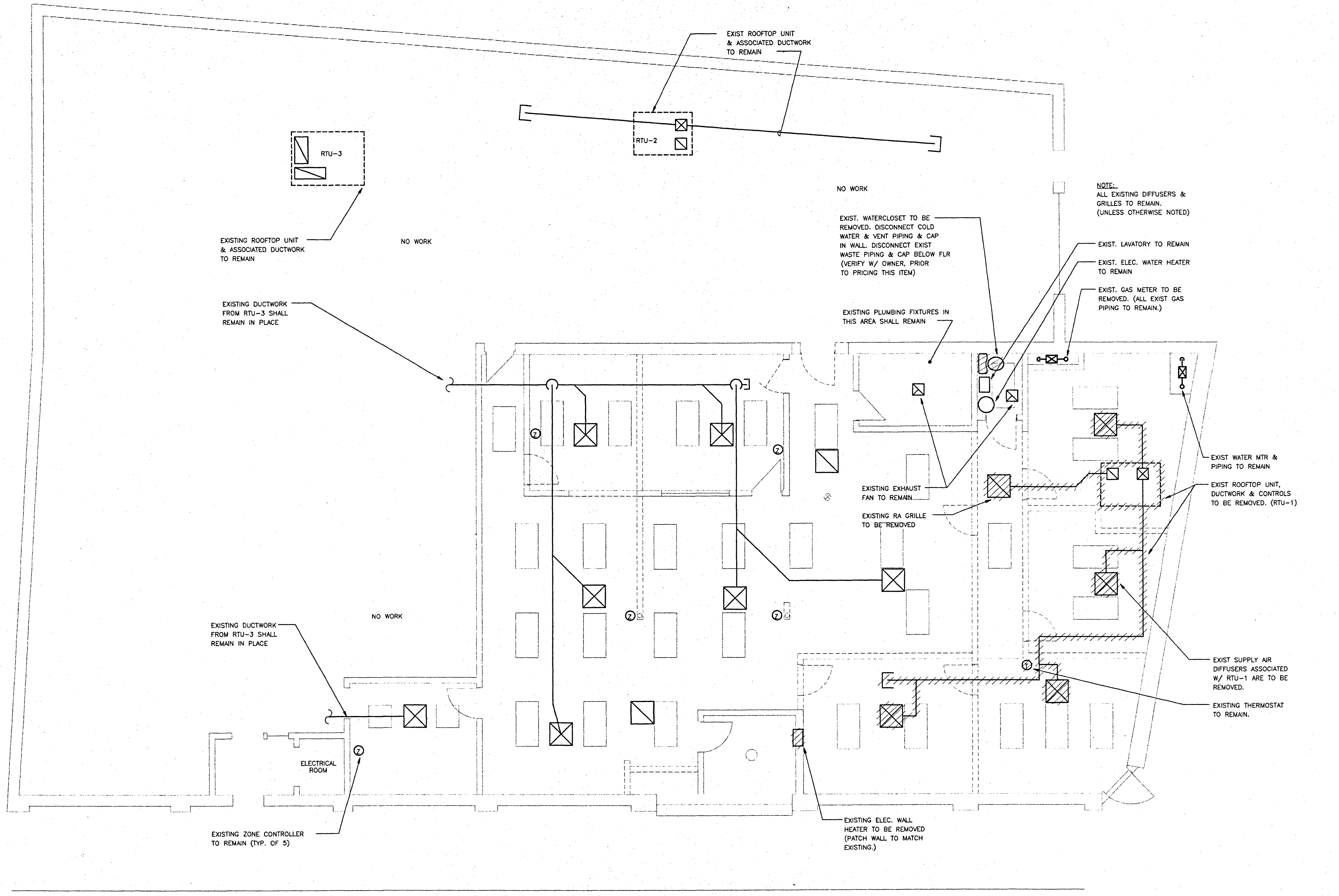
THE OFFICE OF WESTON WRIGHT ARCHITECTS  
 299 NEWPORT AVENUE 617-847-1660  
 QUINCY MASSACHUSETTS 02170



APPLIED IMAGE REPROGRAPHICS  
 QUINCY, MASSACHUSETTS  
 82 SAGAMORE STREET

MECHANICAL DEMO PLAN  
 Scale: 1/4" = 1'-0"  
 Date: 8/30/94  
 Drawn: MO  
 Checked: MO  
 Revisions:  
 Date:  
 Remarks:

M-1



SAGAMORE STREET

MECHANICAL DEMOLITION PLAN



**GENERAL**

A. THE GENERAL CONDITIONS OF THE GENERAL SPECIFICATIONS, ALONG WITH ALL APPLICABLE INSTRUCTIONS TO BIDDERS SHALL FORM A PART OF THIS SECTION OF THE SPECIFICATIONS.

B. REFERENCE IS MADE TO REQUISITES FOR BIDDERS AND CONTRACTORS UNDER OTHER SECTIONS OF THESE SPECIFICATIONS, WHICH SHALL BE CONSIDERED BINDING, UNLESS OTHERWISE NOTED UNDER THIS SECTION.

**SCOPE**

EACH CONTRACTOR SHALL THOROUGHLY ACQUAINT HIMSELF WITH THE CONSTRUCTION DETAILS, BOTH AS ON TENANT CONSTRUCTION DRAWINGS AND LANDLORD'S AS REFERRED TO, BEFORE SUBMITTING HIS BID AS NO ALLOWANCES WILL BE MADE BECAUSE OF THE CONTRACTOR'S UNFAMILIARITY WITH THESE DETAILS. ALL PERFORMANCE OF CONSTRUCTION SHALL BE AS REQUIRED BY THE PACE OF THE GENERAL CONSTRUCTION.

**INSPECTION OF SITE**

ALL PROPOSALS SHALL PRECLUDE THAT CONTRACTOR IS FAMILIAR WITH JOBSITE CONDITIONS AND UTILITY LOCATIONS AND THE LACK OF SPECIFIC INFORMATION ON THE DRAWINGS SHALL NOT RELIEVE THE CONTRACTOR OF ANY RESPONSIBILITY.

**PERMITS**

ALL PERMITS AND LICENSES NECESSARY FOR THE PROPER EXECUTION OF THE WORK SHALL BE SECURED AND PAID FOR BY THE SUBCONTRACTOR INVOLVED.

**CODE REQUIREMENTS**

ALL WORK UNDER THIS CONTRACT SHALL COMPLY WITH THE PROVISIONS OF THE SPECIFICATION DRAWINGS OR AS DIRECTED BY THE OWNER, AND SHALL SATISFY ALL APPLICABLE CODES, ORDINANCES, OR REGULATIONS OF THE GOVERNING BODIES, WHETHER SO SHOWN OR NOT, AND ALL MODIFICATIONS REQUIRED BY SUCH AUTHORITIES SHALL BE MADE BY THE CONTRACTOR WITHOUT ANY ADDITIONAL COST TO THE OWNER.

**MATERIALS AND WORKMANSHIP**

A. ALL MANUFACTURED ARTICLES, MATERIALS, AND EQUIPMENT SHALL BE APPLIED AS RECOMMENDED BY THE MANUFACTURERS, AND UNLESS OTHERWISE SPECIFIED SHALL BE NEW, AND FREE FROM ANY DEFECTS. ALL LIKE MATERIALS USED SHALL BE OF THE SAME MANUFACTURE AND QUALITY UNLESS OTHERWISE SPECIFIED.

B. ALL WORK UNDER THIS CONTRACT SHALL BE PERFORMED BY COMPETENT WORKMEN AND EXECUTED IN A NEAT AND WORKMANLIKE MANNER. WORK SHALL BE PROPERLY PROTECTED DURING CONSTRUCTION, AND ON COMPLETION, THE INSTALLATION SHALL BE THOROUGHLY CLEANED AND ALL DEBRIS PRESENT AS A RESULT OF THIS CONTRACT SHALL BE REMOVED FROM THE PREMISES.

**CODES AND REGULATIONS**

EACH SUBCONTRACTOR SHALL COMPLY WITH ALL LAWS, ORDINANCES, RULES AND REGULATIONS BEARING ON THE CONDUCT OF THE WORK AS DRAWN OR SPECIFIED. IF A SUBCONTRACTOR OBSERVES THAT THE DRAWINGS AND SPECIFICATIONS ARE AT A VARIANCE, HE SHALL PROMPTLY NOTIFY THE GENERAL CONTRACTOR AND THE TENANT IN WRITING. IF ANY SUBCONTRACTOR PERFORMS ANY WORK KNOWING IT TO BE CONTRARY TO LAWS, ORDINANCES, RULES AND REGULATIONS AND WITHOUT GIVING SUCH NOTICE, THE SUBCONTRACTOR SHALL BEAR ALL COSTS ARISING THEREFROM.

**PROTECTION OF WORK AND PROPERTY**

A. EACH SUBCONTRACTOR SHALL CONTINUOUSLY MAINTAIN ADEQUATE PROTECTION OF ALL HIS WORK FROM DAMAGE AND SHALL PROTECT THE OWNER'S PROPERTY FROM INJURY OR LOSS ARISING FROM HIS WORK. HE SHALL MAKE GOOD ANY SUCH DAMAGE, INJURY, OR LOSS, EXCEPT SUCH AS MAY BE DIRECTLY DUE TO CAUSES BEYOND HIS CONTROL AND NOT TO HIS FAULT OR NEGLIGENCE. HE SHALL ADEQUATELY PROTECT ADJACENT PROPERTY AS WELL.

B. EACH SUBCONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS FOR THE SAFETY OF THEIR EMPLOYEES ON THE WORK AND SHALL COMPLY WITH ALL PROVISIONS OF FEDERAL, STATE AND LOCAL BUILDING CODES AND SAFETY LAWS TO PREVENT ACCIDENTS OR INJURY TO PERSONS ON OR ADJACENT TO THE PREMISES WHERE THE WORK IS BEING PERFORMED. EACH SUBCONTRACTOR SHALL MAINTAIN ALL INSURANCE REQUIRED TO PROTECT HIS OWN AND TENANT'S INTERESTS FOR THE DURATION OF THE WORK AGAINST PROPERTY DAMAGE AND PUBLIC LIABILITY.

**CHANGES IN THE WORK**

THE TENANT, WITHOUT INVALIDATING THE CONTRACT, MAY ORDER EXTRA WORK OR MAKE CHANGES BY ALTERING, ADDING TO OR DEDUCTING FROM THE WORK, THE CONTRACT SUM BEING ADJUSTED ACCORDINGLY.

**COOPERATION**

ALL WORK UNDER THESE SPECIFICATIONS SHALL BE ACCOMPLISHED IN CONJUNCTION WITH OTHER CONTRACTORS AND TRADES OF THIS PROJECT IN A MANNER WHICH WILL ALLOW EACH CONTRACTOR AND TRADE ADEQUATE TIME AT THE PROPER STAGE OF CONSTRUCTION TO FULFILL HIS CONTRACTS. REFERENCE SHALL BE MADE TO THE OWNER FOR INSTRUCTIONS SHOULD ANY QUESTIONS ARISE BETWEEN TRADES AS TO THE PLACING OF LINES, DUCTS, CONDUITS, FIXTURES, OR EQUIPMENT, OR SHOULD IT APPEAR DESIRABLE TO REMOVE ANY GENERAL CONSTRUCTION WHICH WOULD AFFECT THE APPEARANCE OF STRENGTH OF THE STRUCTURE.

**SUBSTITUTION OF MATERIALS**

MANUFACTURER'S NAMES ARE LISTED HEREIN TO ESTABLISH A STANDARD. THE PRODUCTS OF OTHER MANUFACTURERS WILL BE ACCEPTABLE, IF IN THE OPINION OF THE TENANT, THE SUBSTITUTE MATERIAL IS OF A QUALITY AS GOOD OR BETTER THAN THE MATERIAL SPECIFIED, AND WILL SERVE WITH EQUAL EFFICIENCY AND DEPENDABILITY, THE PURPOSE FOR WHICH THE ITEMS SPECIFIED WERE INTENDED.

**SHOP DRAWINGS**

SHOP DRAWINGS AND CATALOGUE DATA ON ALL MAJOR ITEMS OF EQUIPMENT AND SYSTEMS, AND SUCH OTHER ILLUSTRATIVE MATERIAL AS MAY BE CONSIDERED NECESSARY BY THE TENANT, SHALL BE SUBMITTED BY THIS CONTRACTOR IN ADEQUATE TIME TO PREVENT DELAY AND CHANGES DURING CONSTRUCTION.

**DRAWINGS AND SPECIFICATIONS**

A. THE DRAWINGS SHOW DIAGRAMMATICALLY THE LOCATIONS OF THE VARIOUS LINES, DUCTS, CONDUITS, FIXTURES, AND EQUIPMENT AND THE METHOD OF CONNECTING AND CONTROLLING THEM. IT IS NOT INTENDED TO SHOW EVERY CONNECTION IN DETAIL AND ALL FITTINGS REQUIRED FOR A COMPLETE SYSTEM.

B. SHOULD ANY CHANGES BE DEEMED NECESSARY BY THE CONTRACTOR IN ITEMS SHOWN ON CONTRACT DRAWINGS, THE SHOP DRAWINGS, DESCRIPTIONS, AND THE REASON FOR THE PROPOSED CHANGES SHALL BE SUBMITTED TO THE OWNER FOR APPROVAL.

**RESPONSIBILITY**

A. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR THE SATISFACTORY AND COMPLETE EXECUTION OF ALL WORK INCLUDED IN HIS CONTRACT. HE SHALL PRODUCE COMPLETE FINISHED OPERATING SYSTEMS AND PROVIDE ALL INCIDENTAL ITEMS REQUIRED AS PART OF HIS WORK, REGARDLESS OF WHETHER SUCH ITEM IS PARTICULARLY SPECIFIED OR INDICATED.

B. CONTRACTOR SHALL SUPPLY TO LANDLORD AND TENANT A CERTIFIED BALANCE REPORT AT COMPLETION OF PROJECT. THIS IS REQUIRED FOR BOTH REMODELED AND NEW STORES.

**HEATING, VENTILATING AND AIR CONDITIONING**

**GENERAL**

A. THE WORK COVERED BY THIS SECTION OF THESE SPECIFICATIONS SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE RESPECTIVE DRAWINGS, INFORMATION, OR INSTRUCTIONS TO BIDDERS, AND THE GENERAL CONDITIONS, ADDENDA, OR DIRECTIVES WHICH MAY BE ISSUED BY THE OWNER, HERETO, OR OTHERWISE, SHALL BE COMPLIED WITH IN EVERY RESPECT.

B. THE LISTING HEREIN OF AN ARTICLE OR MATERIAL, OPERATION OR METHOD, REQUIRES THAT THE CONTRACTOR SHALL FURNISH AND INSTALL EACH ITEM LISTED, UNLESS SPECIFICALLY NOTED TO THE CONTRARY. THE CONTRACTOR SHALL PERFORM EACH OPERATION PRESCRIBED OR LISTED ACCORDING TO THE CONDITIONS STATED.

**EXAMINATION OF SITE**

ALL CONTRACTORS SUBMITTING PROPOSALS FOR THIS WORK SHALL FIRST EXAMINE THE SITE AND ALL CONDITIONS THEREON AND/OR THEREIN. ALL PROPOSALS SHALL TAKE INTO CONSIDERATION ALL SUCH CONDITIONS AS MAY AFFECT THE WORK UNDER THIS CONTRACT.

**SCOPE**

FURNISH ALL MATERIALS, EQUIPMENT, AND LABOR NECESSARY FOR A COMPLETELY FULLY OPERATIVE HEATING, VENTILATING, AND AIR CONDITIONING SYSTEM EXCEPT AS SPECIFICALLY EXCLUDED BY THE DRAWINGS, AND/OR TENANT'S DIRECTIONS.

**EQUIPMENT**

A. AIR CONDITIONING UNITS - UNITS SHALL BE FACTORY ASSEMBLED AND PRE-TESTED INCLUDING FANS, MOTORS, COILS, FILTERS, VARIABLES, PITCH DRIVES, ETC. ALL UNITS SHALL BE EQUIPPED WITH AN ECONOMIZER PACKAGE AND RELIEF DAMPER. UNITS SHALL HAVE NET CAPACITY RATINGS DETERMINED AT THE SPECIFIED DESIGN CONDITIONS. THESE NET CAPACITY RATINGS SHALL BE DETERMINED BY DEDUCTING FOR MOTOR HEAT. THE AIR CONDITIONING UNITS SUPPLIED SHALL HAVE A TOTAL SYSTEM ENERGY RATIO (ESR) OF NOT LESS THAN 7.5. THIS ESR SHALL BE DETERMINED BY DIVIDING THE NET CAPACITY AS DEFINED ABOVE BY THE TOTAL INPUT WATTAGE. THE TOTAL INPUT WATTAGE IS TO INCLUDE THE WATTAGE OF ALL FAN MOTORS AND ASSOCIATED EQUIPMENT. CONTRACTOR WILL FURNISH VIBRATION ISOLATION AS REQUIRED AND RECOMMENDED BY EQUIPMENT MANUFACTURER.

B. FILTERS - FILTERS SHALL BE OF THE THROW AWAY TYPE WHEREVER POSSIBLE. IF FILTERS ARE OF NECESSITY THE PERMANENT TYPE, THEN THEY MUST BE OF THE CLEANABLE, HIGH VELOCITY TYPE AND SHALL BE AMERICAN AIR FILTERS, AIR MAYS, EVANS, OR APPROVED EQUAL. FILTERS SHALL BE OF THE OPTIMUM THICKNESS AND DESIGN FACE VELOCITY SHALL NOT EXCEED 550 FPM. INSTALLATION OF THE AIR CONDITIONING UNIT SHALL BE SUCH SO AS TO NOT IMPED ACCESS TO THE FILTERS. IF THE FILTERS ARE IN FRAME HOLDERS, THEN SUCH HOLDERS SHALL BE PROVIDED WITH A LEFT HANDLE.

D. ALL SINGLE STAGE UNITS WILL BE EQUIPPED WITH DYNELCO MULTI-STAGE TMC2-PC-AVU THERMOSTAT. A DUAL STAGE UNIT WILL BE EQUIPPED WITH A TANDEM DAY/NIGHT THERMOSTAT ARRANGEMENT. DESIGN AND STANDARD CONDITIONS FOR THERMOSTAT OPERATION WILL BE AS FOLLOWS:

COOLING: 70 F MINIMUM OCCUPIED COOLING TEMPERATURE  
85 F COOLING NIGHT SETBACK.

HEATING: 75 F MAXIMUM OCCUPIED HEATING TEMPERATURE  
60 F HEATING NIGHT SETBACK.

E. THE HVAC SUBCONTRACTOR SHALL IDENTIFY ALL ROOF MOUNTED HVAC EQUIPMENT AND APPARATUS WITH 2" HIGH PAINTED STENCILED STORE NAME ON ALL SIDES OF EQUIPMENT.

**DUCTWORK**

A. SQUARE AND RECTANGULAR DUCTWORK SHALL BE CONSTRUCTED OF NEW GALVANIZED PRIME GRADE SHEET STEEL OF THE FOLLOWING GAUGES:

DUCT SIZE	GAUGE
12" AND LESS	NO. 26 U.S. GAUGE
13" TO 30"	NO. 24 U.S. GAUGE
31" TO 54"	NO. 22 U.S. GAUGE
55" TO 84"	NO. 20 U.S. GAUGE
85" AND OVER	NO. 18 U.S. GAUGE

B. SQUARE AND RECTANGULAR DUCTWORK SHALL BE CONSTRUCTED AS FOLLOWS:

SIZE	METHOD
17" AND LESS	"S" AND DRIVE CLEATS
18" TO 30"	"L" STANDING SEAMS ON 3'-0" CENTERS
31" TO 54"	1-1/4" STANDING SEAMS ON 3'-0" CENTERS

ROUND DUCTWORK SHALL BE CONSTRUCTED OF NEW GALVANIZED PRIME GRADE SHEET STEEL OF THE FOLLOWING GAUGES:

DUCT SIZE (DIAMETER)	DUCTS	FITTINGS
8" AND LESS	24	22
9" TO 18"	22	20
19" TO 30"	20	18

ALL 90 DEGREE ELBOWS FOR ROUND DUCTWORK SHALL BE FIVE (5) PIECE. ALL LONGITUDINAL SEAMS SHALL BE FORMED BY PITTSBURGH LOCKS. JOINTS SHALL BE SWAGGED WITH ONE-HALF INCH (1/2") OVERLAP.

C. ALL SUPPLY AIR DUCTS (HEATING AND COOLING) AND RETURN AIR DUCTS AND OUTSIDE AIR DUCTS SHALL BE GALVANIZED STEEL WITH MINIMUM 1" THICK INTERNAL ACUSTICAL AND THERMAL INSULATION. ALL EXHAUST AND RELIEF AIR DUCTS SHALL BE GALVANIZED STEEL.

D. CONTRACTOR WILL INSTALL BIRD SCREENS ON ALL DUCT OPENINGS WHICH LEAD TO OR ARE OUTDOORS. INSECT SCREENS SHALL BE 10 GAUGE, ONE-HALF INCH (1/2") MESH IN REMOVABLE GALVANIZED STEEL FRAMES.

E. ALL DUCTWORK SHALL BE DESIGNED IN ACCORDANCE WITH THE PROCEDURES DESCRIBED IN THE AMERICAN SOCIETY OF HEATING REFRIGERATION AND AIR CONDITIONING ENGINEERS GUIDE (ASHRAE) AND FABRICATED AND INSTALLED IN ACCORDANCE WITH THE LATEST METHODS RECOMMENDED IN THE SHEETMETAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION (SMACNA) LOW VELOCITY DUCT MANUAL, LATEST EDITION.

**HANGERS AND SUPPORTS**

A. ALL HORIZONTAL DUCTS HAVING A DIMENSION OF 40 INCHES AND LESS SHALL BE SUPPORTED BY MEANS OF BAND IRON HANGERS OF NO. 18 U.S. GAUGE ATTACHED TO THE DUCT BY MEANS OF RIVETS, SCREWS, OR CLAMPS, AND FASTENED TO STRUCTURE ABOVE BY TOGGLE BOLTS OR OTHER MEANS. EACH SECTION OF DUCTWORK SHALL HAVE AT LEAST ONE PAIR OF SUPPORTS. VERTICAL DUCTS SHALL BE SUPPORTED WITH 1-1/4" x 1-1/4" x 1-1/4" ANGLES WHERE THEY PASS THROUGH THE FLOOR LINES.

B. ALL HORIZONTAL DUCTS HAVING A DIMENSION OF 40 INCHES AND MORE SHALL BE SUPPORTED BY MEANS OF ANGLE IRON TRAPEZOID HANGERS. EACH SECTION OF DUCTWORK SHALL HAVE AT LEAST ONE PAIR OF SUPPORTS.

**FLASHING**

A. CONTRACTOR WILL PROVIDE WATER TIGHT 24 GA. SHEET METAL FLASHINGS AT ALL EXTERIOR WALLS AND ROOF PENETRATIONS.

B. ALL CUTTING OF ROOF OPENINGS, SUPPORTS FOR ROOF OPENINGS, PITCH PANS, ROOF CURBS, FLASHINGS, COUNTER FLASHINGS, REPAIR TO ROOF, ETC. ASSOCIATED WITH HVAC SUBCONTRACTOR SHALL BE THE RESPONSIBILITY AND PART OF THE CONTRACT HVAC SUB-CONTRACTOR. HE SHALL EMPLOY THE LANDLORD'S ROOFERS FOR THIS WORK SO AS TO MAINTAIN THE ROOF BOND.

**DAMPERS**

A. SPLITTER DAMPERS SHALL BE FABRICATED OF SHEET STEEL NOT LESS THAN NO. 16 U.S. GAUGE WITH THE LEADING EDGE HEAVY. EACH DAMPER SHALL BE LARGE ENOUGH TO COVER THE SMALLER OF THE TWO OPENINGS IT CONTROLS. DAMPERS SHALL BE CONTROLLED AS FOLLOWS:  
EXPOSED OR ACCESSIBLE DUCTWORK - LOCKING QUADRANTS EQUAL TO YOUNG REGULATOR NO. 1 WITH DAMPER ROD END BEARINGS ON OPPOSITE END.  
CONCEALED DUCTWORK - LOCKING QUADRANT EQUAL TO YOUNG REGULATOR NO. 315 (CHROMIUM PLATED WITH DAMPER ROD END BEARINGS ON BOTH ENDS).

B. VOLUME DAMPERS SHALL BE OF THE OPPOSED INTERLOCKING TYPE AS MANUFACTURED BY AMERICAN FOUNDRY AND FURNACES CO. (AFFCO) OR EQUAL. BLADES SHALL BE OF NO. 16 GAUGE SHEET METAL AND SHALL NOT EXCEED 48" IN LENGTH OR 12" IN WIDTH. BLADES SHALL BE ON ONE-HALF INCH (1/2") DIAMETER RUSTPROOF AXLE. BEARINGS SHALL BE OF THE SELF-LUBRICATING FERRULE TYPE.

C. JOB FABRICATED TURNING VANES SHALL BE ACCEPTABLE IN SQUARE ELBOWS. PROVIDE AND INSTALL BARBER-COLMAN AIRTURNS OR EQUAL. TURNING VANES SHALL BE OF THE SAME GAUGE METAL AS THE DUCT IN WHICH THEY ARE INSTALLED. RADIUS ELBOWS SHALL HAVE A CENTER-LINE RADIUS OF ONE AND ONE-HALF (1-1/2) TIMES THE DUCT WIDTH.

ALL JOINTS ARE TO BE SEALED WITH 2-1/2" "SMACNA" APPROVED PRESSURE SENSITIVE ALUMINUM TAPE MEETING AITS 100-73 STANDARDS AND THE REQUIREMENTS OF U.L. 181. APPLICATION SHALL BE IN ACCORDANCE WITH AITS 101-73. (REFER TO MANUFACTURER'S INSTRUCTION SHEET FOR SPECIFIC DETAILS FOR U.L. 181 REQUIREMENTS.) RECOMMEND FASSON 0805. DO NOT APPLY AT TEMPERATURE BELOW 32 F.

**DUCTWORK - EXCEPTIONS**

DUCTWORK FOR EXHAUSTING AIR OR OUTSIDE SUPPLY AIR SHALL BE ALL METAL AND CONSTRUCTED ACCORDING TO RECOMMENDED PRACTICES AS FOUND IN THE LATEST EDITION OF ASHRAE.

**SUPPORT OF DUCT SYSTEM**

DUCTWORK SHALL BE SUPPORTED AT ALL TURNS AND TRANSITIONS AND NOT MORE THAN 8' O.C. FOR STRAIGHT DUCTS UP TO 35" TO 59" MAXIMUM DIMENSION, 6' O.C. AND DUCTS OVER 60" MAXIMUM DIMENSION, 4' O.C.

HANGER DESIGN SHALL BE AS DESCRIBED IN THE LATEST EDITION OF THE "SMACNA" MANUAL. REINFORCEMENT MEMBERS MAY BE USED TO SUPPORT THE DUCT SYSTEM PROVIDED DETAILS OUTLINED IN THE FOREMENTIONED DOCUMENTS ARE ADHERED TO.

REINFORCEMENT ALL DUCTS REQUIRING REINFORCEMENT SHALL BE REINFORCED ACCORDING TO THE LATEST EDITION OF "SMACNA" MANUAL.

MATERIALS FOR REINFORCEMENT MEMBERS SHALL BE GALVANIZED STEEL. ALL SCREWS AND WASHERS SHALL BE PLATED OR GALVANIZED.

**ACCESSORY ITEMS**

ALL MANUAL DAMPERS, FIRE DAMPERS, TURNING VANES, REGISTER CONNECTIONS, ACCESS DOORS OR OTHER ASSOCIATED ACCESSORIES SHALL BE INSTALLED ACCORDING TO THE LATEST PUBLICATION OF "SMACNA" MANUAL.

**PIPING**

A. PIPING AND FITTINGS SHALL BE OF THE WEIGHTS AND TYPES SHOWN ON THE DRAWINGS. SIZES SHOWN ON THE DRAWINGS ARE NOMINAL PIPE SIZES.

B. ALL PIPING SHALL BE INSTALLED PARALLEL TO, OR AT RIGHT ANGLES WITH THE BUILDING WALLS AND PARTITIONS AND SHALL BE INSTALLED WITH THE PROPER PITCH.

C. ALL PIPING SHALL BE UPENDED AND POUNDED TO REMOVE ANY FOREIGN MATTER PRESENT AND SHALL BE SWABBED IF NECESSARY.

**PLUMBING**

**MATERIALS**

A. SANITARY SEWER - CAST IRON OR COPPER PIPING MAY BE USED EXCEPT THAT ALL PIPING BELOW GRADE SHALL BE CAST IRON. VENTS TWO INCHES (2") IN SIZE AND SMALLER MAY BE EITHER SCHEDULED 40 GALVANIZED STEEL OR COPPER PIPING.

B. DOMESTIC WATER AND HOT WATER PIPING SHALL BE COPPER TYPE "L" INSULATED WITH ARMAFLEX OR EQUIVALENT INSULATING TO A THICKNESS OF 1".

C. GAS PIPING SHALL BE BLACK STEEL SCHEDULED 40 WITH SCREWED FITTINGS.

**MAKING UP PIPE**

A. SCREWED PIPE SHALL BE MADE UP WITH PIPE COMPOUND APPLIED TO THE MALE THREAD WITH NOT MORE THAN TWO THREADS LEFT EXPOSED. PIPE SHALL BE REAMED AFTER THREADING.

B. BELOW GRADE SANITARY PIPING SHALL BE CAST IRON PIPE AND SHALL BE MADE UP WITH ONE THIRD OF THE HUB CAULKED WITH FIRST QUALITY OAKUM, AND THE REMAINDER FILLED WITH FIRST QUALITY CAULKING AT ONE POURING AND CAULKED TIGHT. ABOVE GRADE TGC SHALL HAVE OPTION OF USING PVC AS CODE PERMITS.

C. COPPER JOINTS SHALL BE MADE UP WITH 95-5 SOLDER.

**HANGERS AND SUPPORTS**

HORIZONTAL PIPING SHALL BE SUPPORTED AT INTERVALS NOT TO EXCEED 10'-0" WITH SWIVEL SPLIT PIPE HANGERS EQUAL TO CRANE NO. 199F OR GRINNELL NO. 104. VERTICAL PIPING SHALL BE SUPPORTED BY MEANS OF WROUGHT IRON CLAMPS SUSPENDED FROM THE UNDERSIDE OF STRUCTURE WITH HANGER RODS.

**CLEANOUTS**

CLEANOUTS SHALL BE AS MANUFACTURED BY JOSAM, ZURN MFG. CO. OR EQUAL AND SHALL BE INSTALLED AT ALL BENDS, ANGLES, AND ENDS OF ALL WASTE AND SEWER LINES, AS CALLED FOR ON THE DRAWINGS, AND AS REQUIRED BY LOCAL CODES. ALL CLEANOUTS SHALL BE BROUGHT TO GRADE, AND IN ALL CASES, SHALL BE PROVIDED WITH SUFFICIENT SPACE FOR RODDING.

**VALVES**

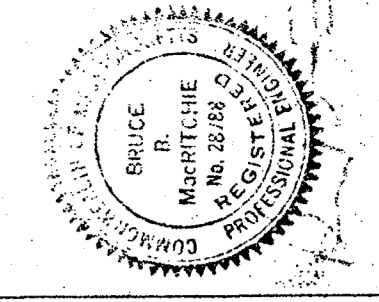
ALL VALVES SHALL BE BRASS AND MANUFACTURED BY CRANE, NIBCO, STOCKHAM, LUNKENHEIMER, NORDSTROM, GRINNELL OR EQUAL.

**TESTING AND ADJUSTING**

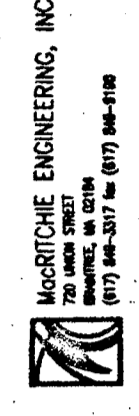
CONTRACTOR WILL DEMONSTRATE OPERATION OF SYSTEM TO FULL SATISFACTION OF TENANT, WILL BALANCE AIR FLOW IN ACCORDANCE WITH AIR QUANTITIES ON DRAWINGS AND WILL RECORD VOLUME READINGS IN ACCORDANCE WITH ASHRAE AND PROVIDE SAME TO TENANT. GAS PIPING SHALL WITHSTAND AIR PRESSURE TESTING PER UNIFORM PLUMBING CODE.

**GUARANTEE**

ALL MATERIALS, EQUIPMENT, AND WORKMANSHIP SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR AFTER DATE OF ACCEPTANCE. THE COMPLETED SYSTEM SHALL BE FULLY OPERATIVE AND ACCEPTANCE BY TENANT SHALL BE A CONDITION OF THIS CONTRACT. ALL WORK FOUND TO BE DEFECTIVE SHALL BE REPAIRED OR REPLACED BY THIS SUBCONTRACTOR WITHOUT ADDITIONAL CHARGE TO THE TENANT.

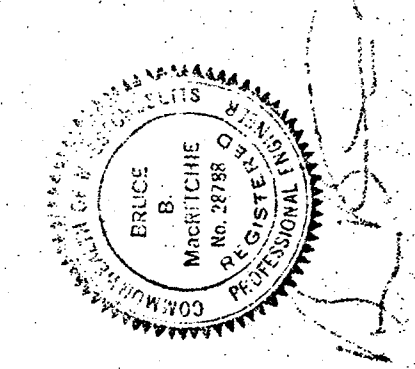


THE OFFICE OF WESTON WRIGHT ARCHITECTS  
299 NEWPORT AVENUE 617-847-1660  
QUINCY MASSACHUSETTS 02170



APPLIED IMAGE REPROGRAPHICS  
QUINCY, MASSACHUSETTS  
82 SAGAMORE STREET

MECHANICAL SPECIFICATIONS  
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Date: 8/30/94  
Checked: MO  
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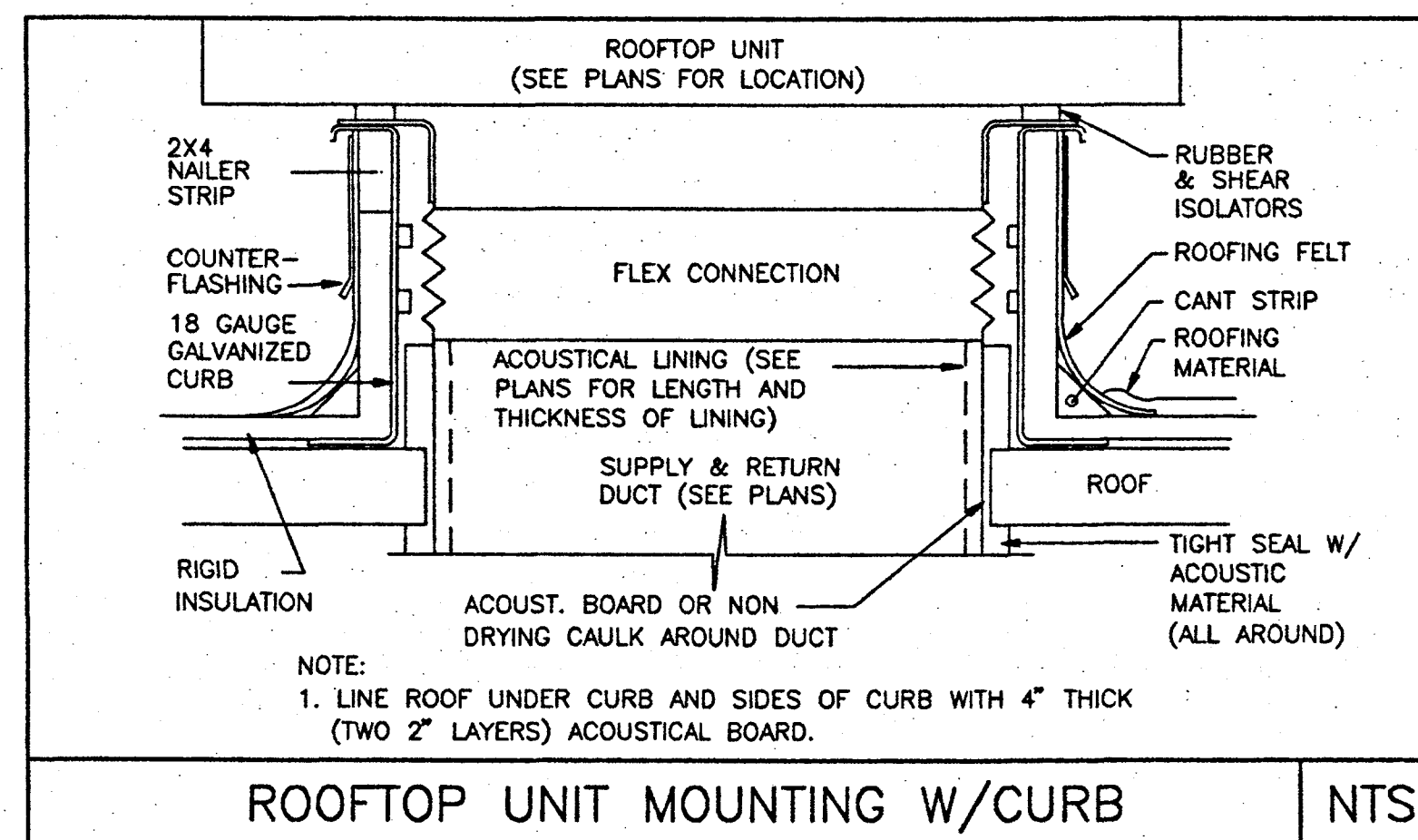


ROOFTOP AIR CONDITIONING UNIT SCHEDULE															
DESIGNATION	SERVICE	CFM	E.S.P.	EVAP. FAN BHP	COOLING CAP. MBH TOTAL	COOLING CAP. MBH SENSIBLE	MIN. OA CFM	HEATING CAP. MBH HEATING INPUT	HEATING CAP. MBH HEATING OUTPUT	VOLTS/Ø/HZ	MCA	MOCP	CARRIER MODEL NO.	APPROX. WEIGHT LBS.	REMARKS
RTU-1	SALES	3000	0.50	2.4	105.3	60.5	1500	180	147.6	208/3/60	40	45	48HJEC08-5	914	

- NOTES:**
- UNITS SHALL HAVE ECONOMIZER, TIME GUARD CONTROL, HONEYWELL T7300 THERMOSTAT (PER A.T.C. SPEC.), ACCUSENSOR II ENTHALPY CONTROL & FACTORY ROOF CURB.
  - BASED ON 88°F AMBIENT AND 71°F ENTERING W.B. TEMPERATURE

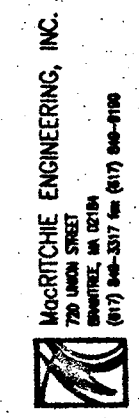
DIFFUSER SCHEDULE				
DESIGNATION	NECK SIZE	RUNOUT SIZE	CFM	TITUS MODEL #
A	15" x 15"	12" Ø	500	TDC-AA, LAY-IN W/TRV
B	24" x 24"	-	1600	50F, EGGCRATE RETURN

- NOTES:**
- DIFFUSERS DENOTED AS LAY-IN ARE 2' x 2' FOR ACOUSTICAL SUSPENDED CEILING.
  - TRANSITION AT DIFFUSER NECK AS REQUIRED.
  - BLOW PATTERNS SHALL BE AS INDICATED ON DRAWINGS.
  - ALL REGISTERS, GRILLES AND DIFFUSERS SHALL BE WHITE, UNLESS OTHERWISE SPECIFIED BY ARCHITECT.
  - "TRV" DENOTES DIFFUSERS TO BE PROVIDED WITH THROW REDUCING VANES.
  - ALL DIFF SHALL HAVE O.B. BALANCING DAMPERS



HVAC Symbols	
15500 - HVAC SYMBOL	DESCRIPTION
—	EXIST DUCTWORK
—	NEW RIGID DUCTWORK
■	NEW 24x24 CEILING DIFFUSER WITH SQUARE TO ROUND TRANSITION
□	RETURN
◻	NEW TRANSITION
—	MANUAL VOLUME DAMPER
⊙	TEMPERATURE SENSOR
⊙	SMOKE DETECTOR
⊙	THERMOSTAT
⊙	ROUND OR DIAMETER
EA	EXHAUST AIR
EC	EVAPORATOR COIL
EF	EXHAUST FAN
EW	ELECTRIC WALL HEATER
EUH	ELECTRIC UNIT HEATER
FAF	FRESH AIR FAN
LBS	POUNDS
R.A.	RETURN AIR
RTU	ROOF TOP UNIT
S.A.	SUPPLY AIR
WMS	WIRE MESH SCREEN
□	DIFFUSER CALLOUT NECK SIZE CFM
⊗	CONNECT TO EXISTING
⊙	ZONE DAMPER CONTROLLER

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Revisions:  
Drawn: M/O  
Checked: M/O  
Remarks:

**ELECTRICAL SPECIFICATION:**

- ELECTRICAL WORK SHALL CONFORM TO THE MASSACHUSETTS ELECTRICAL CODE AND THE REQUIREMENTS OF LOCAL AUTHORITIES HAVING JURISDICTION.
- ELECTRICAL CONTRACTOR SHALL BECOME FAMILIAR WITH THE REQUIREMENTS INDICATED IN OTHER SECTIONS OF THE SPECIFICATIONS AND THE DRAWINGS OF OTHER DISCIPLINES PRIOR TO THE BID.
- ELECTRICAL CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH ALL CONDITIONS SURROUNDING THE WORK PRIOR TO THE BID. ANY DISCREPANCIES SHALL BE CALLED TO THE ARCHITECT'S ATTENTION. NO SUBSEQUENT ALLOWANCE WILL BE MADE IN THIS CONNECTION FOR ANY ERROR OR NEGLIGENCE ON THE ELECTRICAL CONTRACTOR'S PART.
- COORDINATE WORK WITH ALL OTHER TRADES, OBTAIN SHOP DRAWINGS OF EQUIPMENT REQUIRING ELECTRICAL SERVICE PRIOR TO PURCHASING ELECTRICAL APPARATUS FOR SAME.
- RELATED WORK; SECTION 15 - MAGNETIC MOTOR STARTERS AND CONTROL WIRING.
- PRIOR TO PURCHASING EQUIPMENT THE ELECTRICAL CONTRACTOR SHALL MEET WITH THE LOCAL INSPECTORS, MUNICIPALITIES AND UTILITY COMPANIES TO OBTAIN PLAN APPROVAL. NOTIFY THE ENGINEER WITHIN TWO WORKING DAYS OF ANY DISCREPANCIES BETWEEN THE CONTRACT DOCUMENTS AND REQUIREMENTS OF LOCAL AUTHORITIES.
- ELECTRICAL CONTRACTOR SHALL PROVIDE ALL PERMITS, INSURANCE, TESTING, LABOR AND MATERIAL FOR A COMPLETE AND OPERATIONAL SYSTEM. WORK SHALL BE EXECUTED BY EXPERIENCED LICENSED ELECTRICIANS IN THE STATE OF MASSACHUSETTS.
- ELECTRICAL CONTRACTOR SHALL PROVIDE EVERYTHING NECESSARY FOR A COMPLETE INSTALLATION WHETHER OR NOT DEFINITELY SPECIFIED OR SHOWN. "PROVIDE" MEANS TO FURNISH AND INSTALL.
- DRAWINGS ARE DIAGRAMMATIC AND NOT INTENDED TO SHOW EXACT LOCATIONS UNLESS DIMENSIONED. ELECTRICAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND LENGTHS, AND SHALL ADJUST EQUIPMENT AND RACEWAY LOCATIONS TO AVOID CONFLICTS WITH OTHER CONSTRUCTION OR EQUIPMENT.
- ELECTRICAL SYSTEM SHALL BE GUARANTEED FOR A ONE YEAR PERIOD, STARTING FROM THE DATE OF FINAL WRITTEN APPROVAL BY THE OWNER. CONTRACTOR SHALL MAKE GOOD ALL SUCH FAULTY ITEMS IDENTIFIED TO HIM DURING THIS PERIOD WITHOUT COST TO THE OWNER.
- MATERIAL SHALL BE SPECIFICATION GRADE AND UL LISTED. MATERIAL SPECIFIED BY MANUFACTURER AND CATALOG NUMBER IS TO ESTABLISH DESIRED QUALITY OF EQUIPMENT. ACCEPTANCE OR REJECTION OF PROPOSED SUBSTITUTION SHALL BE SUBJECT TO THE WRITTEN RESPONSE OF THE OWNER.
- EQUIPMENT SPECIFICATION SHEETS SHALL BE SUBMITTED FOR WRITTEN APPROVAL.
- OPERATING AND MAINTENANCE MANUALS SHALL BE PROVIDED FOR EACH PIECE OF EQUIPMENT.
- DURING THE PROGRESS OF WORK, MARK UP A SET OF CONSTRUCTION DOCUMENTS TO REFLECT THE WORK AS IT IS ACTUALLY INSTALLED. AS-BUILT RECORD DRAWINGS SHALL BE PROVIDED AND TURNED OVER TO THE OWNER UPON COMPLETION PRIOR TO FINAL PAYMENT.
- BRANCH CIRCUIT WIRING IS INDICATED ON THE DRAWINGS BY CIRCUIT NUMBER ADJACENT TO RECEPTACLES, DEVICES, ETC. PROVIDE A COMPLETE BRANCH CIRCUIT WIRING SYSTEM WHETHER OR NOT GRAPHICALLY INDICATED. CONDUIT RUNS AS INDICATED ON PLANS ARE DIAGRAMMATIC. EXACT ROUTING SHALL BE DETERMINED IN THE FIELD PER JOB REQUIREMENTS.
- NAME PLATES SHALL BE PROVIDED FOR ALL NEW PANELBOARDS DISCONNECT SWITCHES AND CONTROLLERS. NAME PLATES SHALL BE PLASTIC, BLACK ON WHITE LAMINATE WITH 3/16" LETTERING SECURED WITH SHEET METAL SCREWS. PLATES SHALL BE MANUFACTURED BY SETON NAME PLATE CORPORATION.
- PANELBOARDS SHALL BE AS SCHEDULED ON DRAWINGS. CABINETS SHALL BE CODE GAUGE GALVANIZED STEEL DESIGNED FOR SURFACE OR FLUSH MOUNTING AS INDICATED ON PLANS. SURFACE MOUNTED PANELBOARDS SHALL BE MOUNTED ON FIRE RATED PLYWOOD. HINGED DOOR SHALL BE PROVIDED COMPLETE WITH TYPE WRITTEN DIRECTORY. CIRCUIT BREAKERS SHALL BE THERMAL MAGNETIC WITH BOLT-ON CONNECTIONS. CIRCUIT BREAKERS FOR LIGHTING FIXTURES SHALL BE SWITCH DUTY RATED. EQUIPMENT SHALL BE SQUARE D OR APPROVED EQUAL.
- RACEWAYS SHALL BE CONCEALED IN FINISHED AREAS, EXPOSED IN UNFINISHED AREAS SUCH AS ELECTRICAL ROOMS. FEEDERS SHALL BE ROUTED TIGHT TO THE UNDERSIDE OF STRUCTURE ABOVE, PARALLEL AND PERPENDICULAR TO THE BUILDING STRUCTURAL SUPPORT SYSTEM. FITTINGS FOR EMT SHALL BE COMPRESSION TYPE. RIGID CONDUIT SHALL UTILIZE THE THREADED TYPE. CONDUIT SHALL BE SUPPORTED USING MALLEABLE IRON CLAMPS, PIPE HANGERS, AND STEEL CHANNEL.
- WIRE SHALL BE COPPER, INSULATED FOR 600 VOLTS, TYPE THHN/THWN. MINIMUM WIRE SIZE SHALL BE #12 AWG STRANDED.

FITTINGS SHALL BE SET SCREW OR COMPRESSION TYPE AS APPROPRIATE.

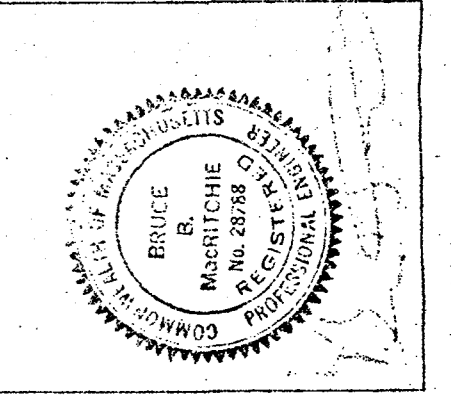
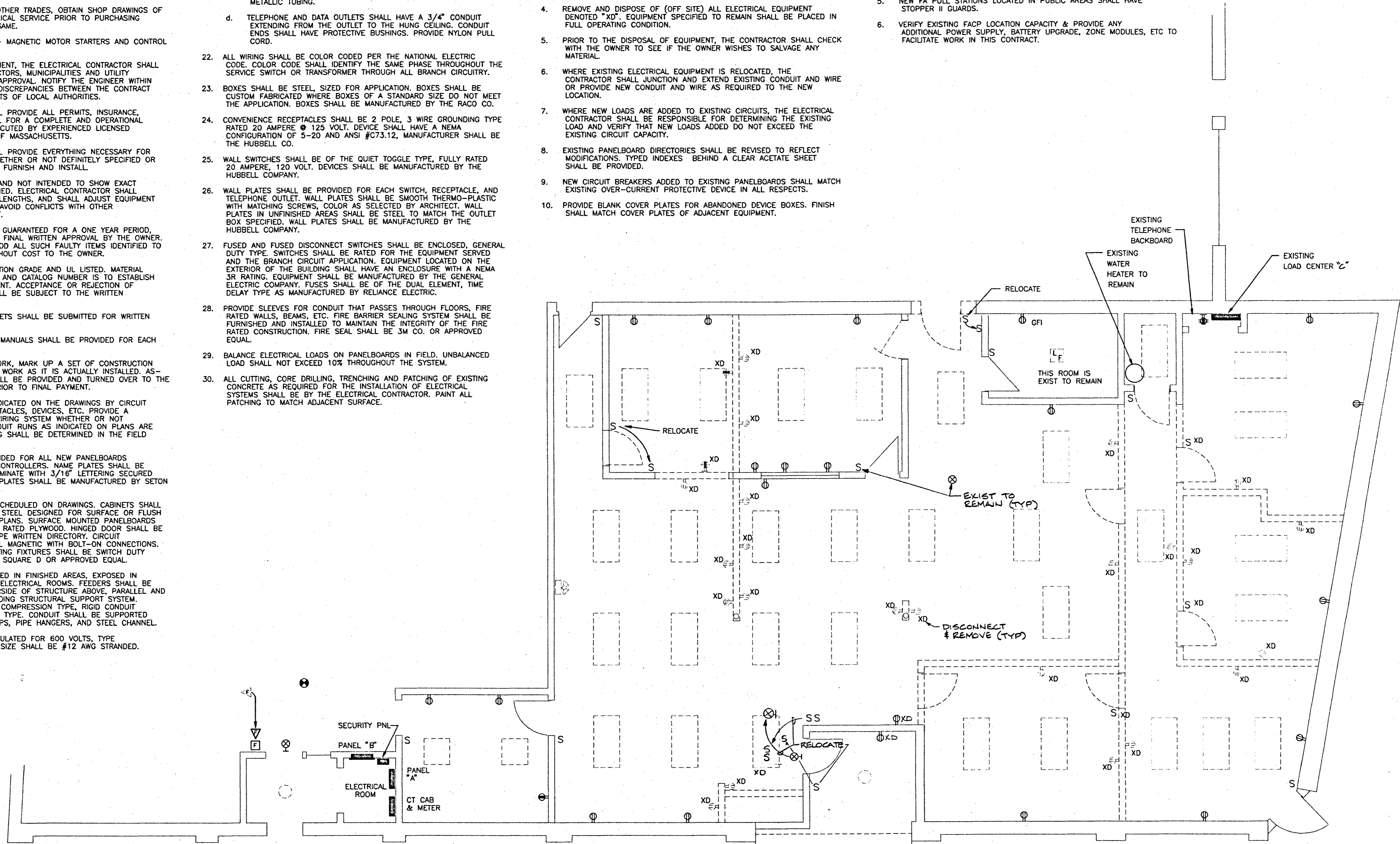
- PROVIDE GREEN INSULATED COPPER GROUNDING SYSTEM.
- WIRING METHODS: UNLESS NOTED OTHERWISE, ALL WIRING SHALL BE INSTALLED IN STEEL ELECTRICAL METALLIC TUBING.
  - EXTERIOR UNDERGROUND BRANCH CIRCUITS AND UNDERGROUND ELECTRICAL SERVICE ENTRANCE SHALL BE INSTALLED IN PVC CONDUIT.
  - WIRING FOR EQUIPMENT CONNECTIONS SHALL BE INSTALLED IN FLEXIBLE LIQUID TIGHT METAL CONDUIT.
  - INTERIOR FEEDERS SHALL BE INSTALLED IN ELECTRICAL METALLIC TUBING.
  - TELEPHONE AND DATA OUTLETS SHALL HAVE A 3/4" CONDUIT EXTENDING FROM THE OUTLET TO THE HUNG CEILING. CONDUIT ENDS SHALL HAVE PROTECTIVE BUSHINGS. PROVIDE NYLON PULL CORD.
- ALL WIRING SHALL BE COLOR CODED PER THE NATIONAL ELECTRIC CODE. COLOR CODE SHALL IDENTIFY THE SAME PHASE THROUGHOUT THE SERVICE SWITCH OR TRANSFORMER THROUGH ALL BRANCH CIRCUITRY.
- BOXES SHALL BE STEEL, SIZED FOR APPLICATION. BOXES SHALL BE CUSTOM FABRICATED WHERE BOXES OF A STANDARD SIZE DO NOT MEET THE APPLICATION. BOXES SHALL BE MANUFACTURED BY THE RACO CO.
- CONVENIENCE RECEPTACLES SHALL BE 2 POLE, 3 WIRE GROUNDING TYPE RATED 20 AMPERE @ 125 VOLT. DEVICE SHALL HAVE A NEMA CONFIGURATION OF 5-20 AND ANSI #C73.12, MANUFACTURER SHALL BE THE HUBBELL CO.
- WALL SWITCHES SHALL BE OF THE QUIET TOGGLE TYPE, FULLY RATED 20 AMPERE, 120 VOLT. DEVICES SHALL BE MANUFACTURED BY THE HUBBELL COMPANY.
- WALL PLATES SHALL BE PROVIDED FOR EACH SWITCH, RECEPTACLE, AND TELEPHONE OUTLET. WALL PLATES SHALL BE SMOOTH THERMO-PLASTIC WITH MATCHING SCREWS, COLOR AS SELECTED BY ARCHITECT. WALL PLATES IN UNFINISHED AREAS SHALL BE STEEL TO MATCH THE OUTLET BOX SPECIFIED. WALL PLATES SHALL BE MANUFACTURED BY THE HUBBELL COMPANY.
- FUSED AND FUSED DISCONNECT SWITCHES SHALL BE ENCLOSED, GENERAL DUTY TYPE. SWITCHES SHALL BE RATED FOR THE EQUIPMENT SERVED AND THE BRANCH CIRCUIT APPLICATION. EQUIPMENT LOCATED ON THE EXTERIOR OF THE BUILDING SHALL HAVE AN ENCLOSURE WITH A NEMA 3R RATING. EQUIPMENT SHALL BE MANUFACTURED BY THE GENERAL ELECTRIC COMPANY. FUSES SHALL BE OF THE DUAL ELEMENT, TIME DELAY TYPE AS MANUFACTURED BY RELIANCE ELECTRIC.
- PROVIDE SLEEVES FOR CONDUIT THAT PASSES THROUGH FLOORS, FIRE RATED WALLS, BEAMS, ETC. FIRE BARRIER SEALING SYSTEM SHALL BE FURNISHED AND INSTALLED TO MAINTAIN THE INTEGRITY OF THE FIRE RATED CONSTRUCTION. FIRE SEAL SHALL BE 3M CO. OR APPROVED EQUAL.
- BALANCE ELECTRICAL LOADS ON PANELBOARDS IN FIELD. UNBALANCED LOAD SHALL NOT EXCEED 10% THROUGHOUT THE SYSTEM.
- ALL CUTTING, CORE DRILLING, TRENCHING AND PATCHING OF EXISTING CONCRETE AS REQUIRED FOR THE INSTALLATION OF ELECTRICAL SYSTEMS SHALL BE BY THE ELECTRICAL CONTRACTOR. PAINT ALL PATCHING TO MATCH ADJACENT SURFACE.

**DEMOLITION NOTES:**

- ELECTRICAL CONTRACTOR SHALL VISIT THE SITE TO DETERMINE THE EXACT SCOPE OF WORK. THESE PLANS HAVE BEEN PREPARED TO AID THE CONTRACTOR AND DO NOT NECESSARILY REPRESENT ALL THE WORK THAT HAS TO BE PERFORMED. THE REMOVAL AND RELOCATION OF ELECTRICAL EQUIPMENT SHALL BE DICTATED BY FIELD CONDITIONS AND THE REQUIREMENTS OF GENERAL CONSTRUCTION, MECHANICAL SYSTEMS, AND ELECTRICAL WORK. REVIEW THE PLANS AND SPECIFICATIONS OF ALL DISCIPLINES PRIOR TO BID.
- AREAS OUTSIDE THE SCOPE OF THIS RENOVATION SHALL BE LEFT IN FULL OPERATING CONDITION.
- ELECTRICAL SYSTEM SHUT DOWN SHALL BE AT A TIME AND DATE SPECIFIED BY THE OWNER. NOTIFY THE OWNER IN WRITING FIVE DAYS IN ADVANCE OF ANY SHUT DOWN.
- REMOVE AND DISPOSE OF (OFF SITE) ALL ELECTRICAL EQUIPMENT DENOTED "XD". EQUIPMENT SPECIFIED TO REMAIN SHALL BE PLACED IN FULL OPERATING CONDITION.
- PRIOR TO THE DISPOSAL OF EQUIPMENT, THE CONTRACTOR SHALL CHECK WITH THE OWNER TO SEE IF THE OWNER WISHES TO SALVAGE ANY MATERIAL.
- WHERE EXISTING ELECTRICAL EQUIPMENT IS RELOCATED, THE CONTRACTOR SHALL JUNCTION AND EXTEND EXISTING CONDUIT AND WIRE OR PROVIDE NEW CONDUIT AND WIRE AS REQUIRED TO THE NEW LOCATION.
- WHERE NEW LOADS ARE ADDED TO EXISTING CIRCUITS, THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXISTING LOAD AND VERIFY THAT NEW LOADS ADDED DO NOT EXCEED THE EXISTING CIRCUIT CAPACITY.
- EXISTING PANELBOARD DIRECTORIES SHALL BE REVISED TO REFLECT MODIFICATIONS. TYPED INDEXES BEHIND A CLEAR ACETATE SHEET SHALL BE PROVIDED.
- NEW CIRCUIT BREAKERS ADDED TO EXISTING PANELBOARDS SHALL MATCH EXISTING OVER-CURRENT PROTECTIVE DEVICE IN ALL RESPECTS.
- PROVIDE BLANK COVER PLATES FOR ABANDONED DEVICE BOXES. FINISH SHALL MATCH COVER PLATES OF ADJACENT EQUIPMENT.

**GENERAL NOTES:**

- LIGHTING FIXTURES ARE EXISTING TO REMAIN. RELOCATE CONTROLS AS REQUIRED AND SHOWN ON PLAN.
- WHERE EXISTING LIGHTS ARE SHOWN GROUPED BY SINGLE CONTROL AND EXISTING BRANCH CIRCUITRY IS NOT SHARED BETWEEN THE FIXTURES, CONTRACTOR SHALL PROVIDE ADDITIONAL LIGHT SWITCHES OR EXTEND BRANCH CIRCUITRY TO ACCOMMODATE NEW ARRANGEMENT.
- REFER TO MECHANICAL PLAN FOR EXACT LOCATION OF MECHANICAL EQUIPMENT.
- CONNECT NEW FIRE ALARM DEVICES TO EXISTING FIRE ALARM CONTROL PANEL. NEW DEVICES SHALL MATCH EXISTING SYSTEM & SHALL BE ADA APPROVED.
- NEW FA PULL STATIONS LOCATED IN PUBLIC AREAS SHALL HAVE STOPPER II GUARDS.
- VERIFY EXISTING FACP LOCATION CAPACITY & PROVIDE ANY ADDITIONAL POWER SUPPLY, BATTERY UPGRADE, ZONE MODULES, ETC TO FACILITATE WORK IN THIS CONTRACT.

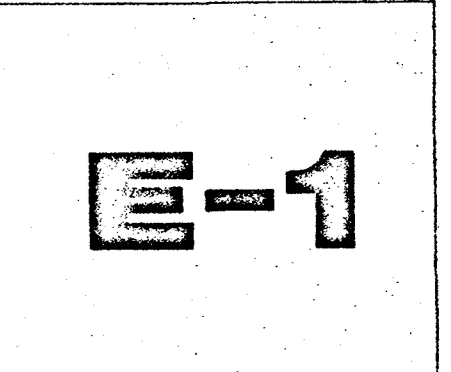


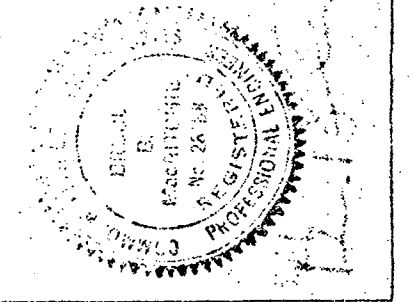
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MACRITCHIE ENGINEERING, INC.  
 REGISTERED PROFESSIONAL ENGINEER  
 LICENSE NO. 12018  
 STATE OF MASSACHUSETTS

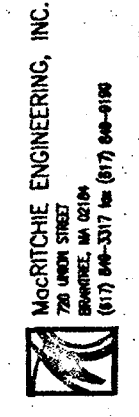
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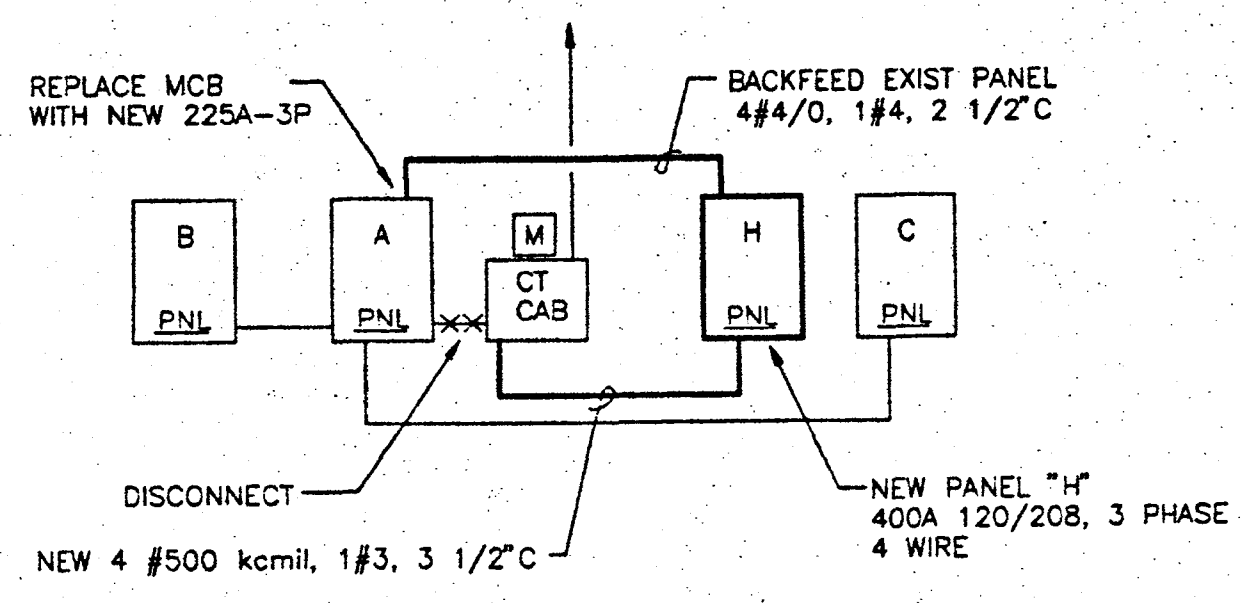
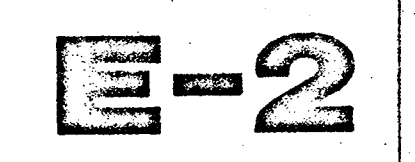


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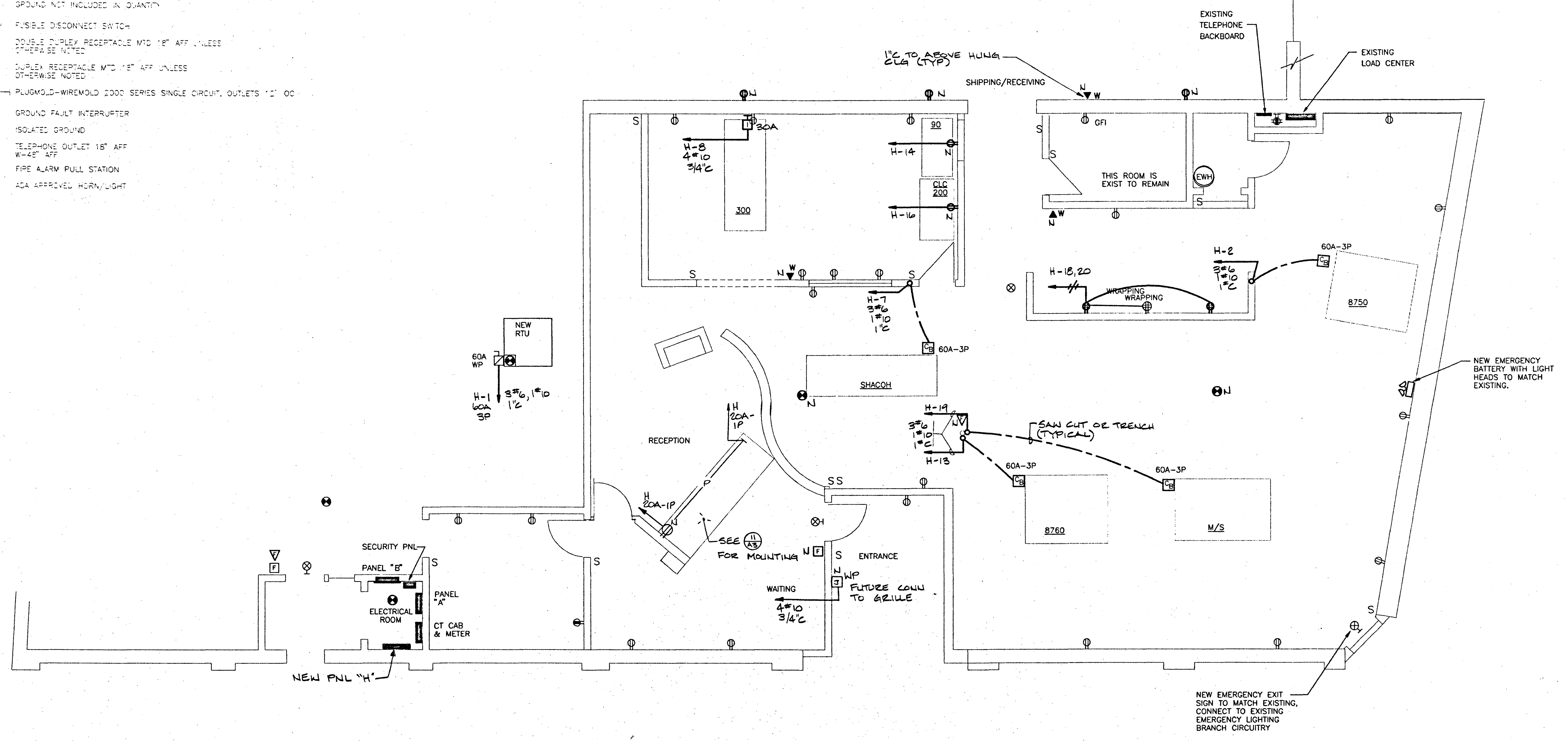
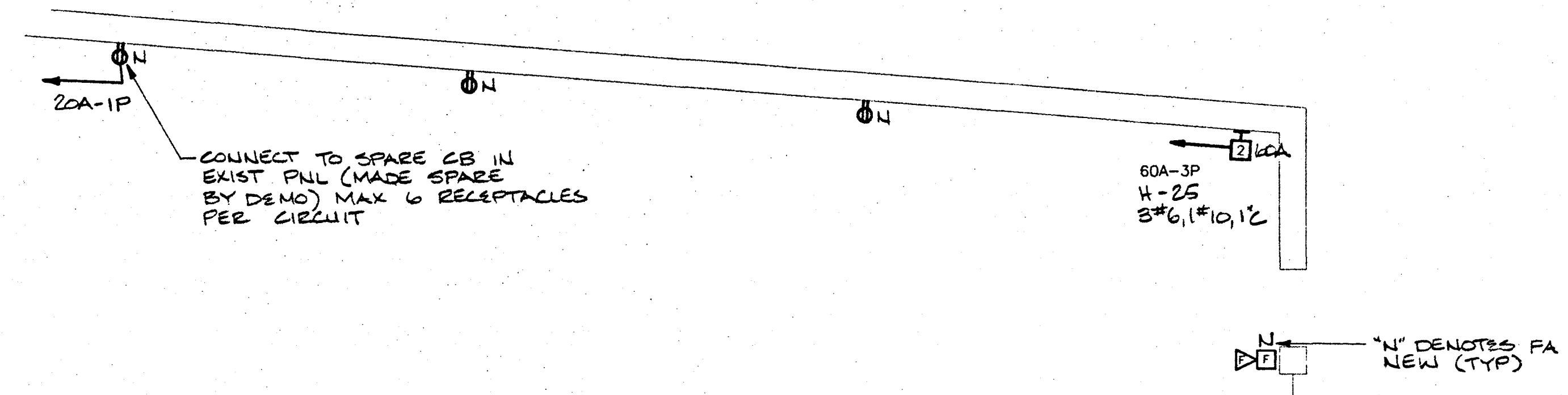
**ELECTRICAL EQUIPMENT AND POWER PLAN**  
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POWER RISER DIAGRAM  
 NTS

**Electrical Legend**

- CONTRACTOR SHALL COORDINATE ALL MOUNTING HEIGHTS OF DEVICES WITH ARCHITECT
- JUNCTION BOX
- HOME RUN TO PANELBOARD-DIAGONAL LINES INDICATE NUMBER OF CONDUCTORS GROUND NOT INCLUDED IN QUANTITY
- FUSIBLE DISCONNECT SWITCH
- DOUBLE DUPLEX RECEPTACLE MTD 18" AFF UNLESS OTHERWISE NOTED
- DUPLEX RECEPTACLE MTD 18" AFF UNLESS OTHERWISE NOTED
- PLUGMOLD-WIREMOLD 2000 SERIES SINGLE CIRCUIT, OUTLETS 12" OC
- GROUND FAULT INTERRUPTER
- ISOLATED GROUND
- TELEPHONE OUTLET 18" AFF W-48" AFF
- FIRE ALARM PULL STATION
- ADA APPROVED HORN/LIGHT



NEW EMERGENCY EXIT SIGN TO MATCH EXISTING, CONNECT TO EXISTING EMERGENCY LIGHTING BRANCH CIRCUITRY