

INDEX OF DRAWINGS

1/30	SITE PLAN - SEE ATTACHMENT "A"	16/30	SYSTEMS FURNITURE
2/30	PLOT PLAN	17/30	HEAD / JAMB DETAILS
3/30	FOUNDATION PLAN	18/30	WALL SECTIONS
4/30	FOUNDATION DETAILS	19/30	WALL TYPES
5/30	FOUNDATION DETAILS	20/30	ROOF FRAMING PLAN
6/30	DIMENSIONAL FLOOR PLAN	21/30	REFLECTED CEILING PLAN
7/30	ARCHITECTURAL FLOOR PLAN	22/30	PLUMBING PLAN
8/30	SCHEDULES	23/30	PLUMBING NOTES & SCHEDULES
9/30	ELEVATIONS	24/30	MECHANICAL PLAN
10/30	ELEVATIONS	25/30	MECHANICAL DETAILS
11/30	BUILDING SECTION	26/30	MECHANICAL NOTES & SCHEDULES
12/30	BUILDING SECTION	27/30	ELECTRICAL LIGHTING PLAN
13/30	BUILDING SECTION	28/30	ELECTRICAL POWER PLAN
14/30	INTERIOR ELEVATIONS	29/30	ELECTRIC PANELS
15/30	SHELVING	30/30	ELECTRIC NOTES & SCHEDULES

CODE REQUIREMENTS

BUILDING CODE - CURRENT IBC
 PLUMBING CODE - CURRENT IBC
 MECHANICAL CODE - CURRENT IBC
 ELECTRICAL CODE - CURRENT N.E.C.

DESIGN BY: LARRY CARVER
 DRWN. BY: LARRY CARVER
 DATE: 10-1-09

DISTRICT #2
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MISSOURI DEPARTMENT
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 FACILITIES MANAGEMENT

COVER SHEET

MISSOURI DEPARTMENT OF TRANSPORTATION

DISTRICT 2 - MARSHALL PROJECT OFFICE

Route 20, 0.1 Miles West of Highway 65

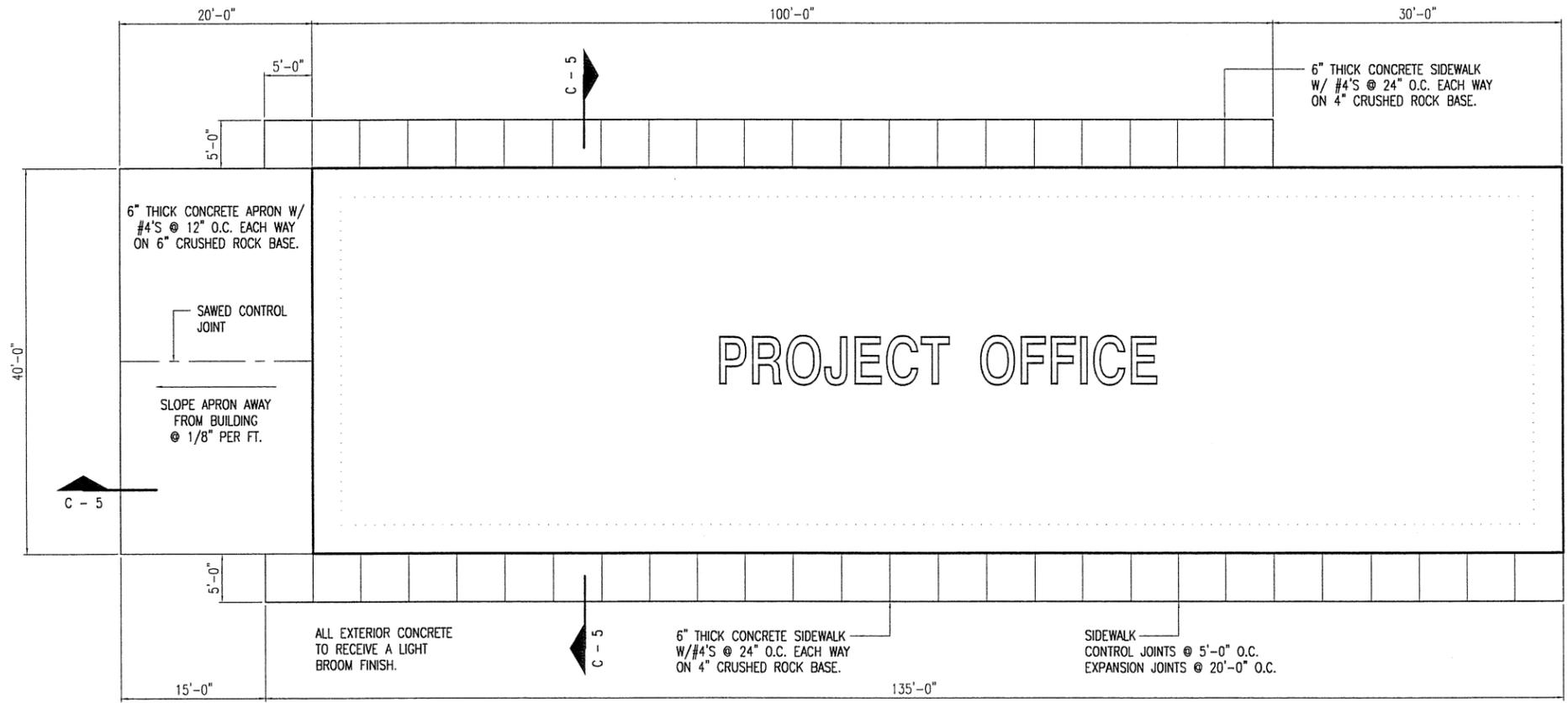
Saline County

MARSHALL, MISSOURI

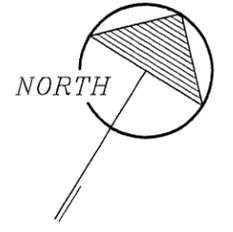
Attachment "B"



DESIGN BY: SCOTT SCARVER
 DRAWN BY: LARRY CARVER
 DATE: 10-1-09



A PLOT PLAN
 2 1/16" = 1'-0"



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PLOT PLAN

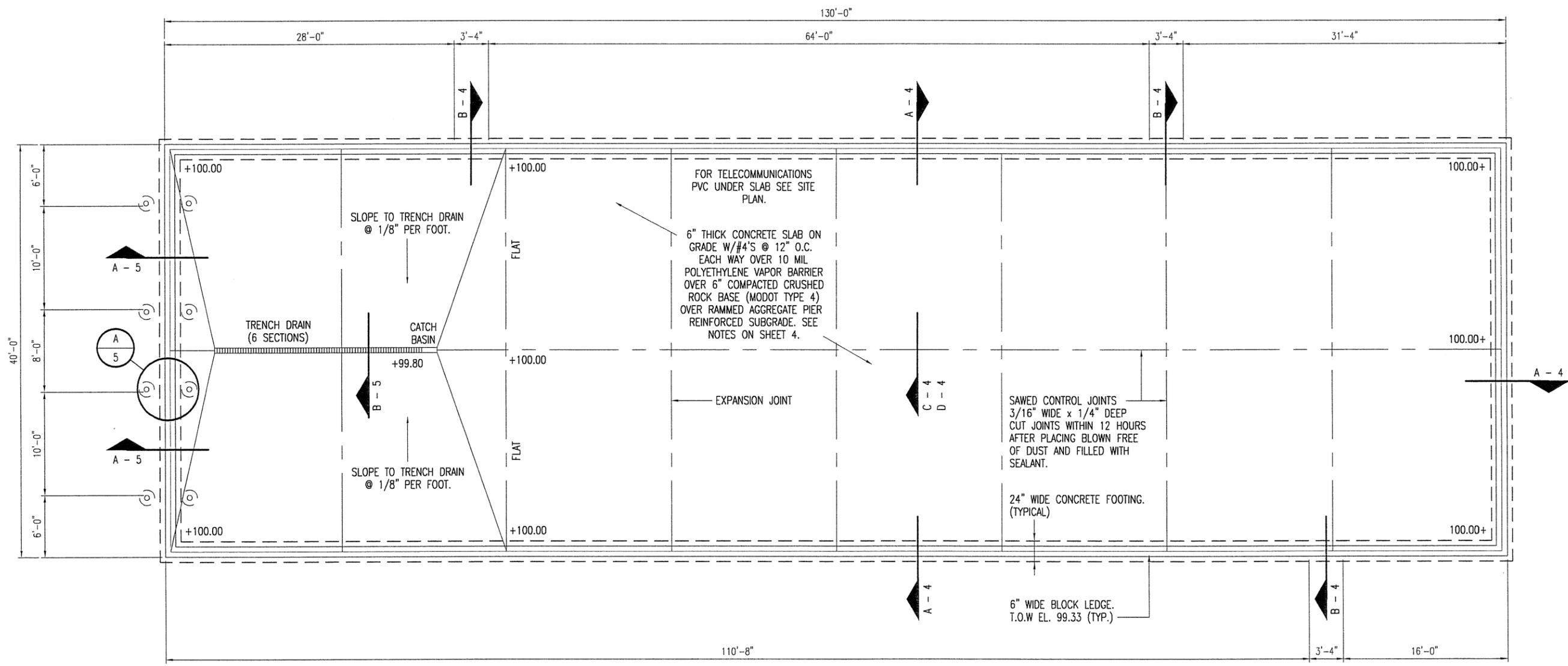


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DATE: 10-1-09

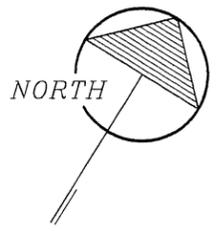
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FOUNDATION PLAN

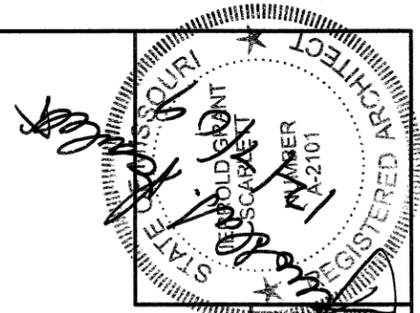


A FOUNDATION PLAN
3 3/32" = 1'-0"



CONCRETE NOTES

- IF CONDITIONS REQUIRING ROCK EXCAVATION ARE ENCOUNTERED, NOTIFY THE DESIGNER AND CONSTRUCTION INSPECTOR BEFORE PROCEEDING WITH THE WORK.
- EXTERIOR CONCRETE FLATWORK SHALL HAVE A LIGHT BROOM FINISH.
- COORDINATE WORK OF OTHER TRADES REQUIRED TO BE INSTALLED IN, UNDER, OR THROUGH CONCRETE PRIOR TO PLACEMENT OF CONCRETE. INSTALL ALL ANCHORAGES AND SLEEVES REQUIRED FOR THE INSTALLATION OF WORK BY OTHER TRADES.
- ALL PIPING RUN THROUGH CONCRETE WORK SHALL BE RUN THROUGH PVC SLEEVES.
- SEE FOUNDATION PLANS FOR SLOPED FLOOR DIMENSIONS AND REQUIREMENTS.
- SEE SPECIFICATION SECTION 03300 CONCRETE FOR ADDITIONAL REQUIREMENTS.
- SEE PLOT PLAN FOR ADDITIONAL CONCRETE WORK.
- ALL EXPOSED CONCRETE FLOORS SHALL RECEIVE 2 COATS OF A POLYURETHANE COATING CONFORMING TO ASTM D-16, TYPE II. SEE SPECIFICATION SECTION 03346.
- ENTIRE PERIMETER OF BUILDING TO RECEIVE 2" POLYISOCYANURATE RIGID INSULATION BOARD.
- SAWED CONTROL JOINTS SHALL BE CLEANED FREE OF ALL DEBRIS AND FILLED WITH PRC PERMAPOL "RC-550" JOINT SEALANT OR AN APPROVED EQUAL.
- SEE PLUMBING PLAN FOR ADDITIONAL DRAIN LOCATIONS.

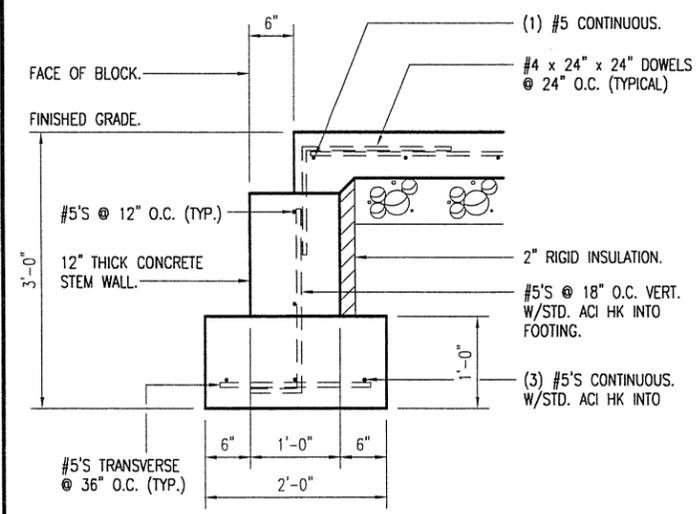


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DATE 10-1-09

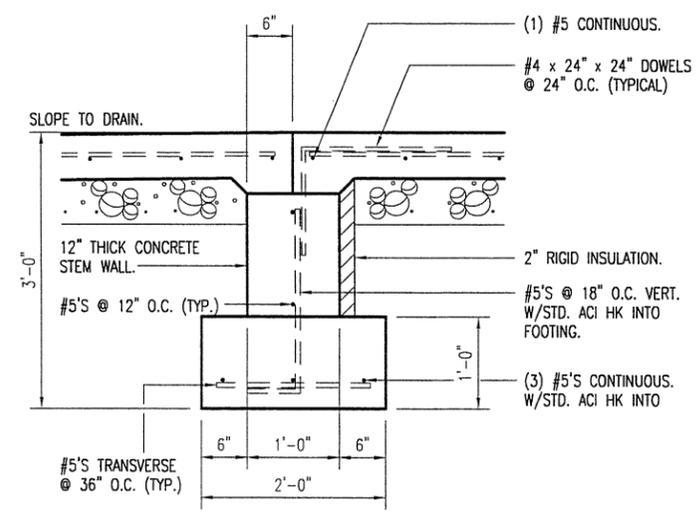
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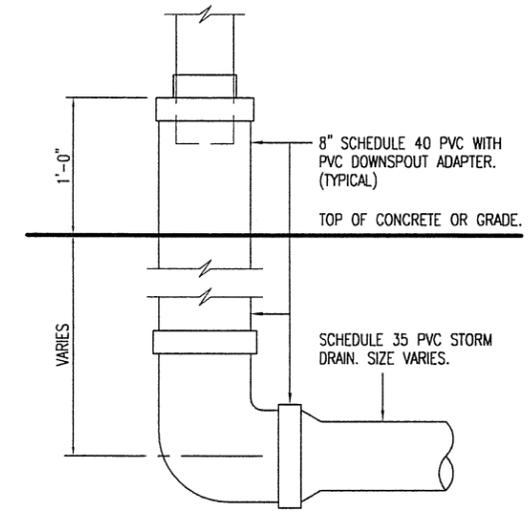
FOUNDATION DETAILS



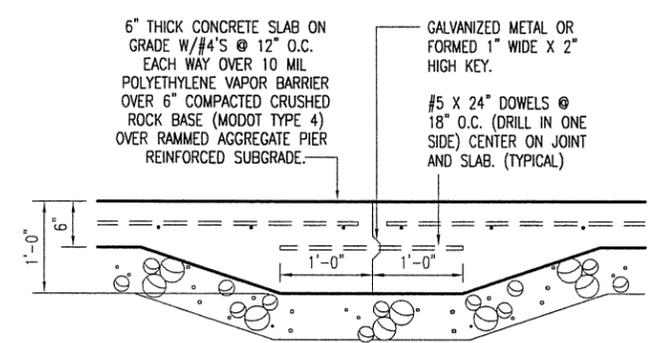
A TYPICAL PERIMETER FOOTING
SCALE: 1/2" = 1'-0"



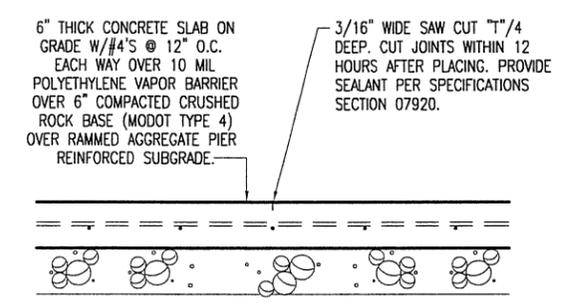
B TYPICAL DOOR OPENING SLAB
SCALE: 1/2" = 1'-0"



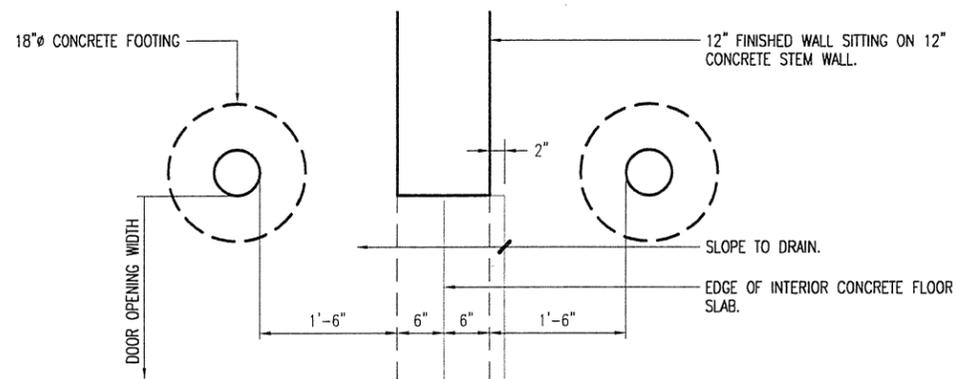
E DOWNSPOUT ADAPTER
SCALE: 3/4" = 1'-0"



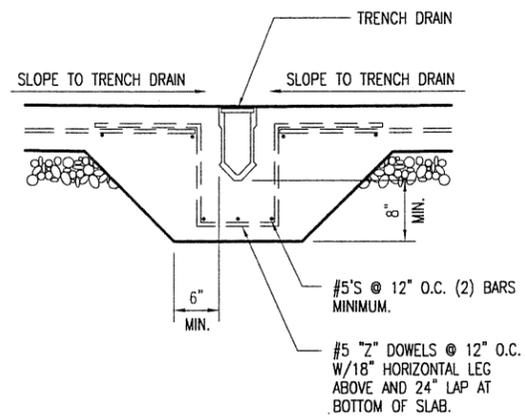
C TYPICAL CONSTRUCTION JOINT
SCALE: 1/2" = 1'-0"



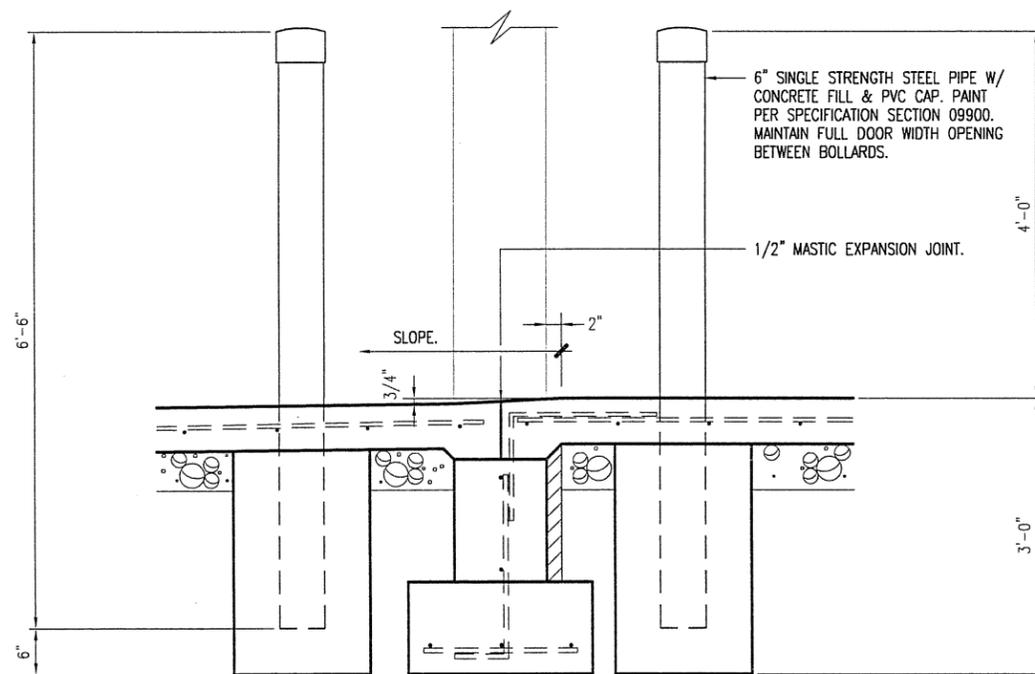
D TYPICAL SAW JOINT
SCALE: 1/2" = 1'-0"



PLAN

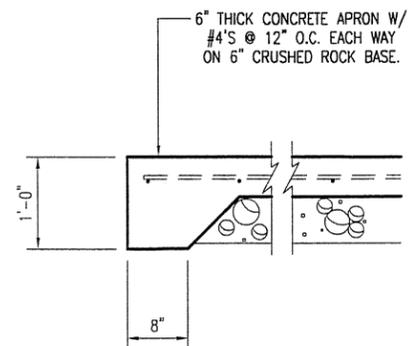


B TRENCH DRAIN DETAIL
5 SCALE: 1/2" = 1'-0"



ELEVATION

A BOLLARD DETAIL
5 SCALE: 1/2" = 1'-0"



C APPROACH APRON
5 SCALE: 1/2" = 1'-0"



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DRAWN BY LARRY CARVER
DATE 9-24-09

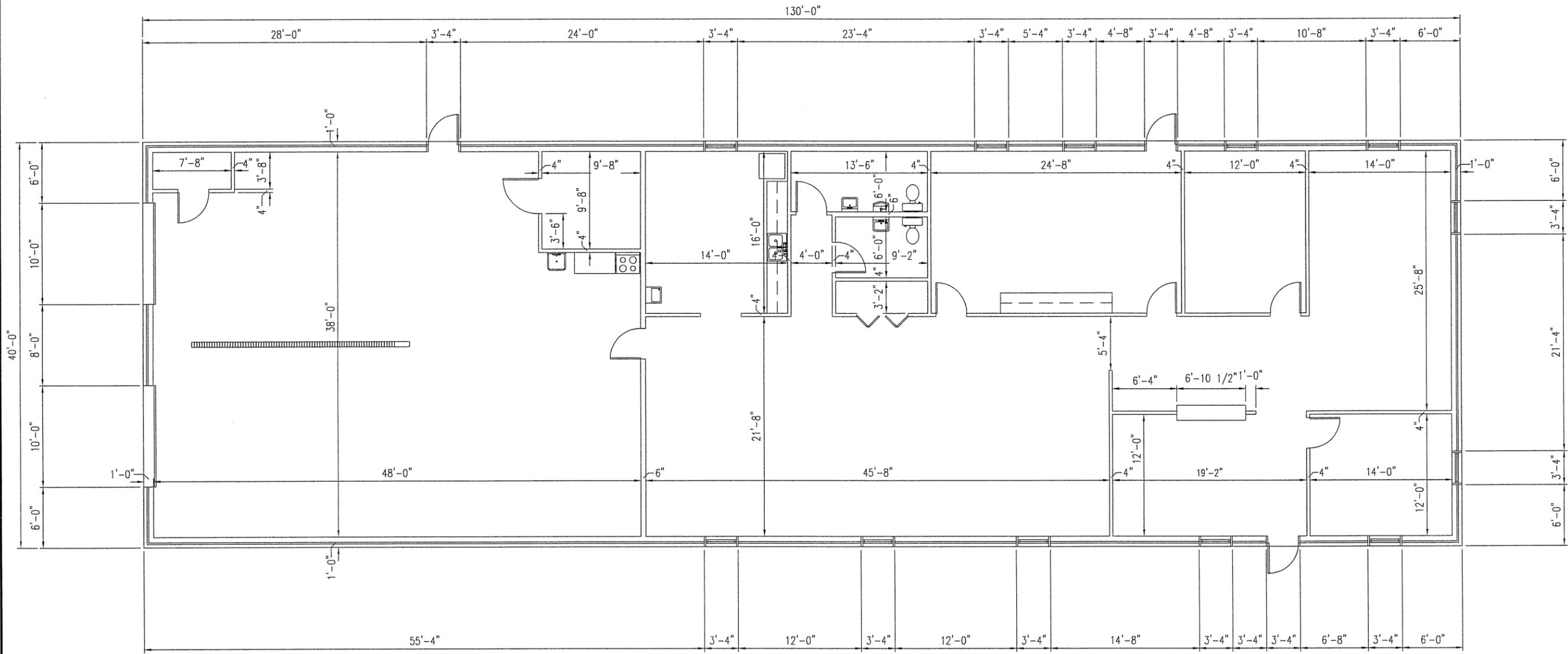
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FOUNDATION DETAILS



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 DATE: 5-2-09

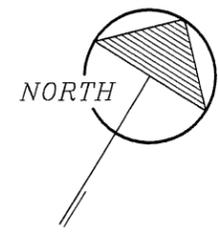


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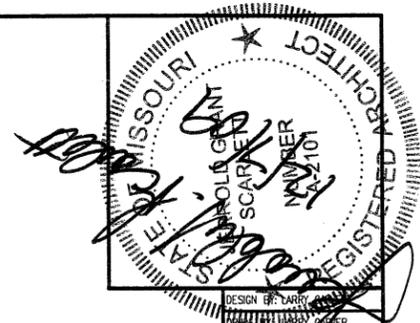
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DIMENSIONAL FLOOR PLAN

A
6 DIMENSIONAL FLOOR PLAN
 3/32" = 1'-0"



NOTE:
 INTERIOR PARTITIONS DIMENSIONED
 TO FACE OF STUDS

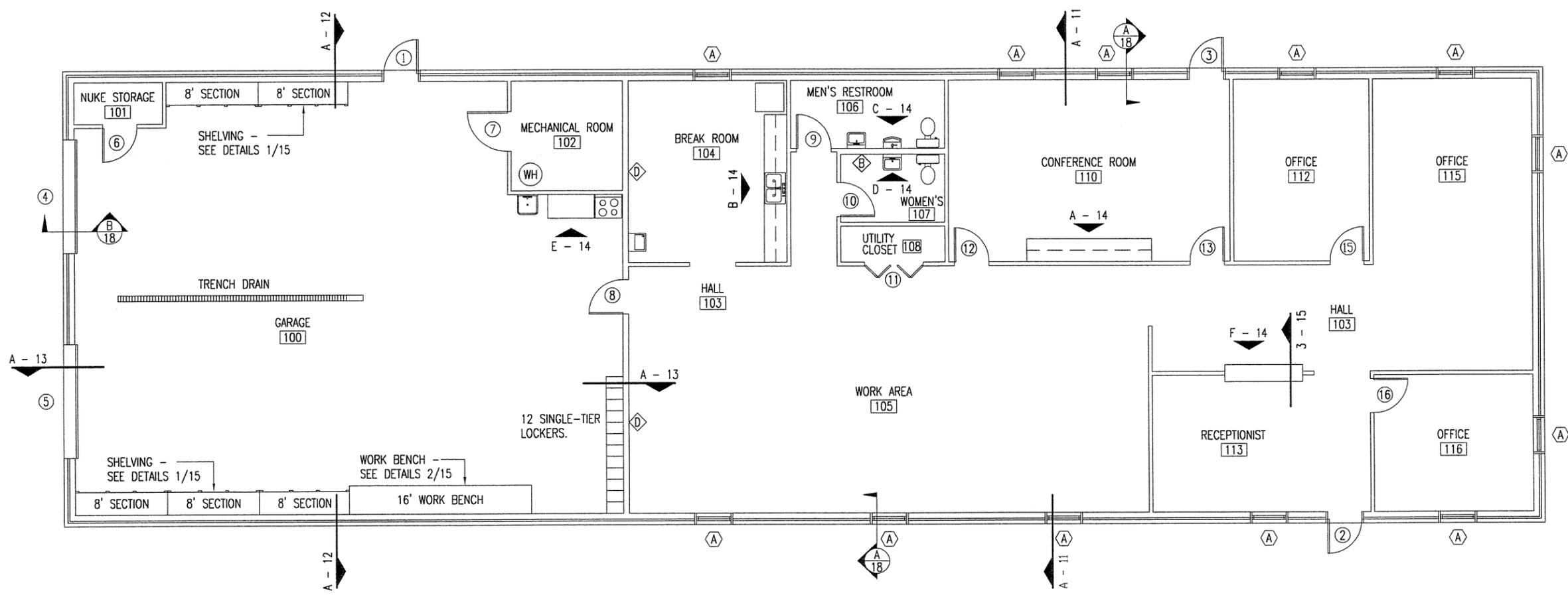


DESIGN BY: CARRY
 DRAWN BY: LARRY
 DATE: 6-7-09

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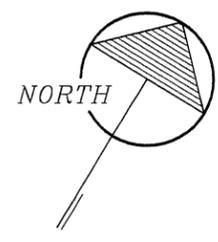
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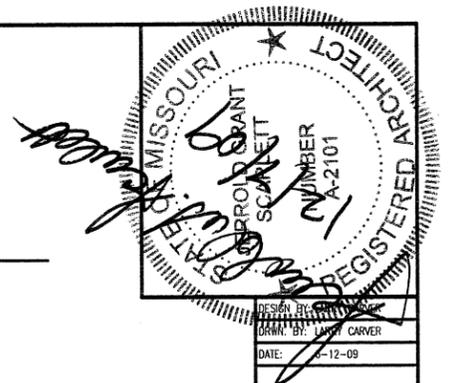
Architectural Floor Plan



- Ⓔ WALL TYPES - SEE SHEET 19.
 ALL EXTERIOR WALLS TYPE-A UNLESS INDICATED.
 ALL INTERIOR WALLS TYPE-C UNLESS INDICATED.
- ③ DOOR MARK - SEE DOOR SCHEDULE SHEET 8.

A
7 ARCHITECTURAL FLOOR PLAN
 3/32" = 1'-0"





DOOR SCHEDULE

MARK	SWING	DOOR SIZE	DOOR MATERIAL	DOOR TYPE	FRAME MATR	FRAME TYPE	HEAD	HARDWARE GROUP
1	LHR	3'-0" x 7'-0" x 1-3/4"	INSUL. MTL.	A	MTL.	I	A-17	1
2	LHR	3'-0" x 7'-0" x 1-3/4"	INSUL. MTL.	A	MTL.	I	A-17	1
3	LHR	3'-0" x 7'-0" x 1-3/4"	INSUL. MTL.	A	MTL.	I	A-17	1
4	OH	10'-0" x 10'-0" x 2"	INSUL. MTL.	F	MTL.	-	-	-
5	OH	10'-0" x 10'-0" x 2"	INSUL. MTL.	F	MTL.	-	-	-
6	LHR	3'-0" x 7'-0" x 1-3/4"	HOLLOW MTL.	C	MTL.	III	B-17	2
7	LHR	3'-6" x 7'-0" x 1-3/4"	HOLLOW MTL.	B	MTL.	II	B-17	2
8	RHR	3'-0" x 7'-0" x 1-3/4"	HOLLOW MTL.	D	MTL.	II	D-17	3
9	LH	3'-0" x 7'-0" x 1-3/4"	HOLLOW MTL.	B	MTL.	II	B-17	4
10	RH	3'-0" x 7'-0" x 1-3/4"	HOLLOW MTL.	B	MTL.	IV	B-17	4
11	BF	5'-0" x 7'-0" x 1-3/4"	WOOD	E	MTL.	II	B-17	-
12	LH	3'-0" x 7'-0" x 1-3/4"	HOLLOW MTL.	B	MTL.	II	B-17	2
13	RH	3'-0" x 7'-0" x 1-3/4"	HOLLOW MTL.	B	MTL.	II	B-17	2
14		NOT USED						
15	RH	3'-0" x 7'-0" x 1-3/4"	HOLLOW MTL.	B	MTL.	II	B-17	5
16	LH	3'-0" x 7'-0" x 1-3/4"	HOLLOW MTL.	B	MTL.	II	B-17	5
17		NOT USED						

DOOR 8 TO BE FIRE RATED AND LABELED - UL90.
ALL FRAMES TO BE FIRE RATED AND LABELED - UL90.

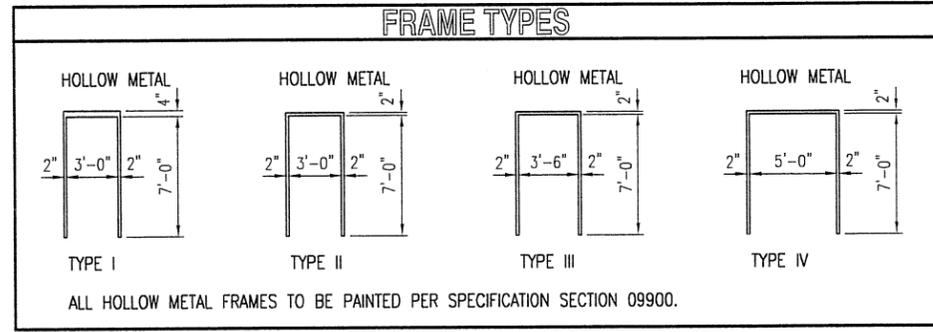
FINISH SCHEDULE

NO.	ROOM	FLOORS			BASE	WALLS		CEILING	
		EXPOSED CONCRETE WITH SEALER	VINYL COMPOSITION TILE	CARPET		4" VINYL	5/8" TYPE "X" GYP. BD. PAINTED.	5/8" MOISTURE RSNT. GYP. BD. PAINTED.	ACOUSTICAL TILE
100	GARAGE	●			●	●		●	
101	NUKE STORAGE	●			●	●		●	
102	MECHANICAL ROOM	●			●	●		●	
103	HALL		●		●	●		●	
104	BREAK ROOM		●		●	●		●	
105	WORK AREA			●	●	●		●	
106	MEN'S RESTROOM		●		●	●		●	
107	WOMEN'S RESTROOM		●		●	●		●	
108	UTILITY CLOSET		●		●	●		●	
109	-								
110	CONFERENCE ROOM			●	●	●		●	
111	-								
112	OFFICE			●	●	●		●	
113	RECEPTIONIST			●	●	●		●	
114	-								
115	OFFICE			●	●	●		●	
116	OFFICE			●	●	●		●	

GENERAL NOTES:

ROOM FINISHES TO BE PAINTED PER SPECIFICATION 09900.
 PROVIDE FULL THICK SOUND BATT INSULATION (NOT SHOWN) TYPICAL @ ALL INTERIOR STUD WALLS, SEE SPECIFICATION SECTION 07210.
 ALL EXTERIOR HOLLOW METAL DOOR FRAMES TO HAVE SOLID GROUT FILL.
 ALL EXTERIOR OVERHEAD DOOR JAMBS TO BE WRAPPED WITH SHEET STOCK.
 SEE HEAD/JAMB TYPES SHEET 17.

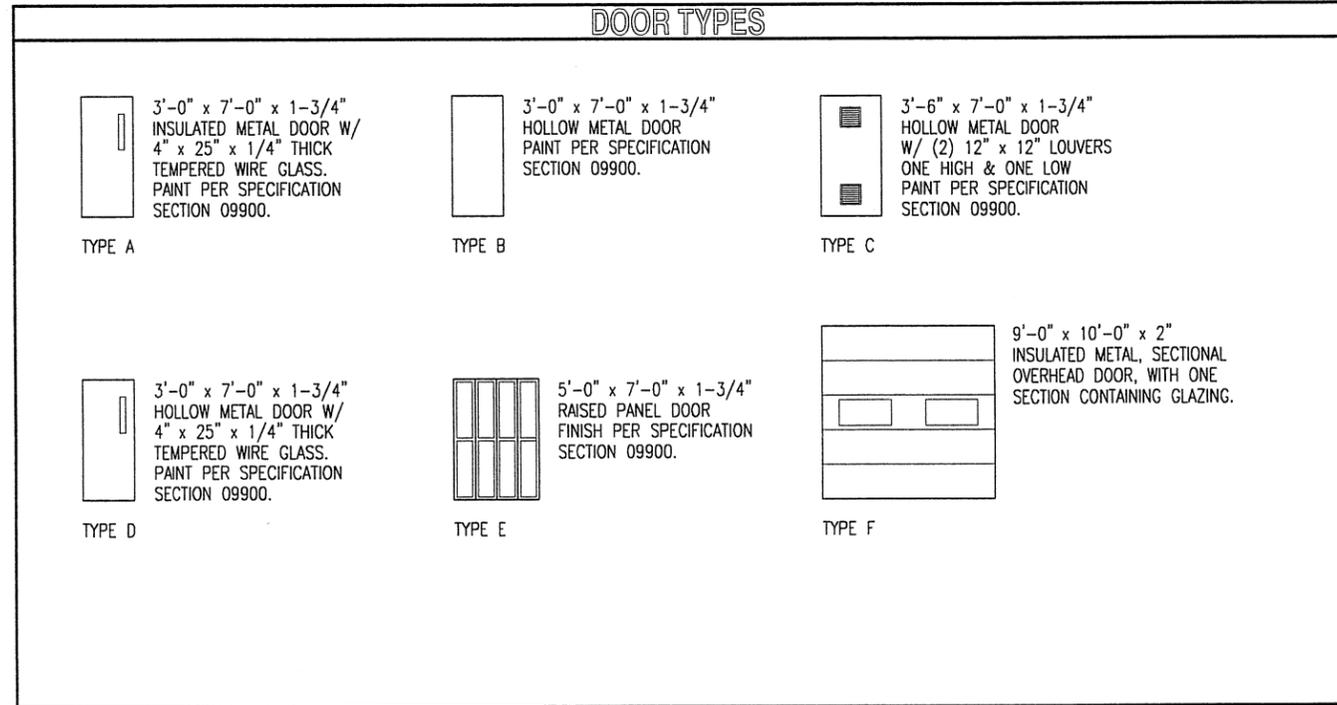
FRAME TYPES



WINDOW TYPE



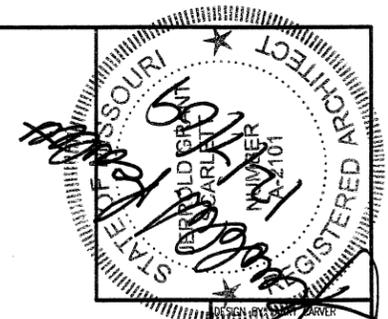
DOOR TYPES



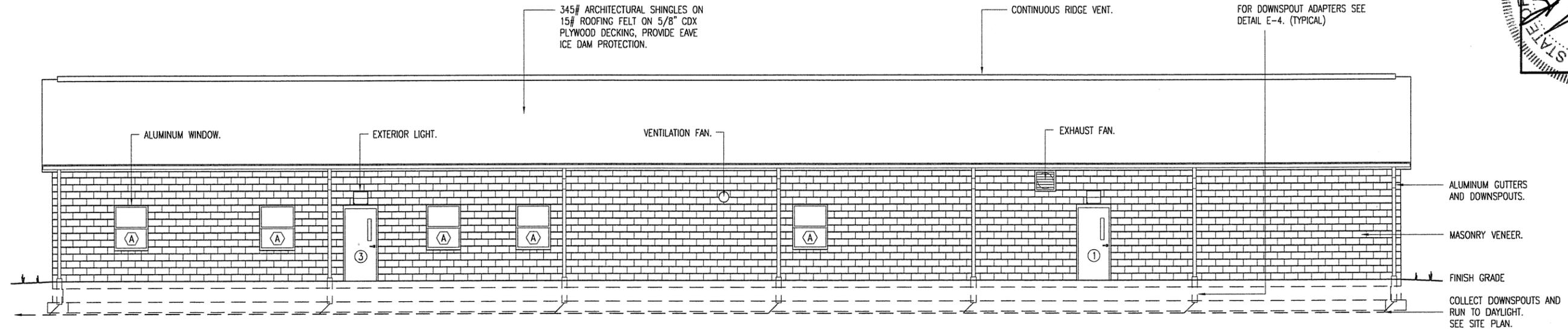
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SCHEDULES



DESIGN BY: LARRY CARVER
 DRAWN BY: LARRY CARVER
 DATE: 9-24-09

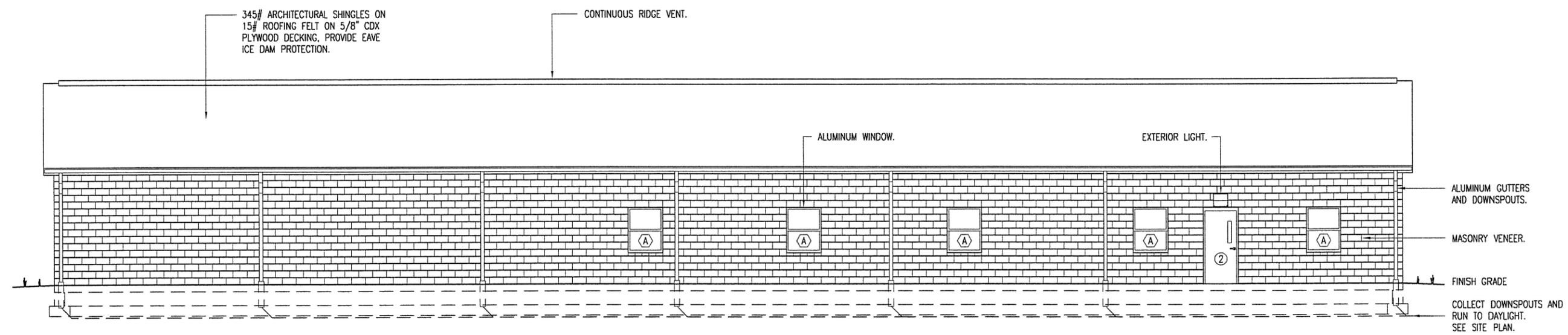


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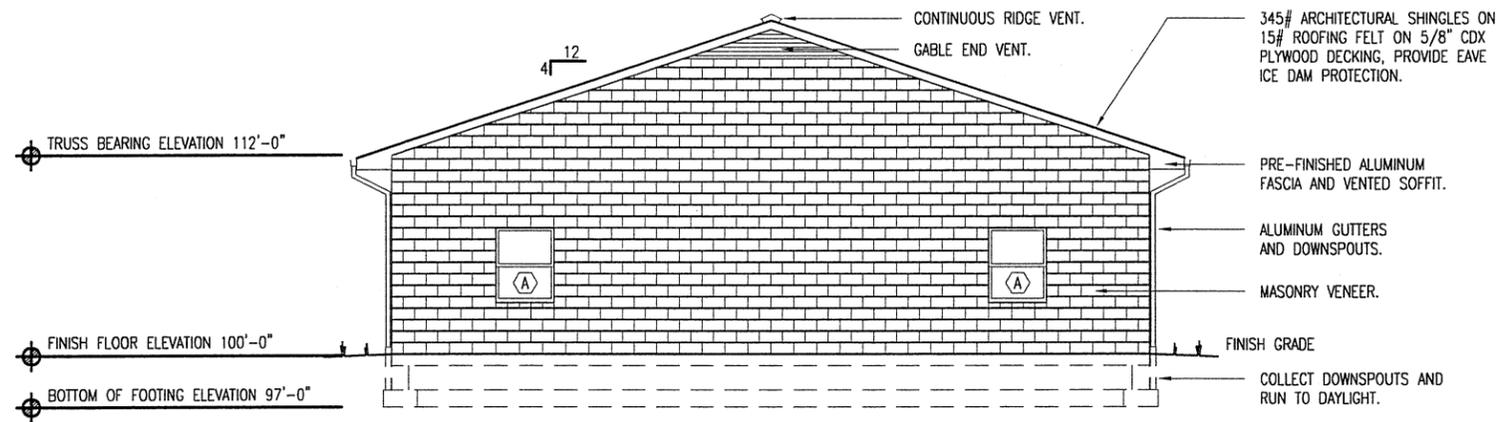
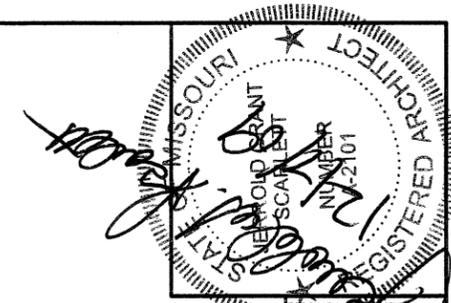
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ELEVATIONS

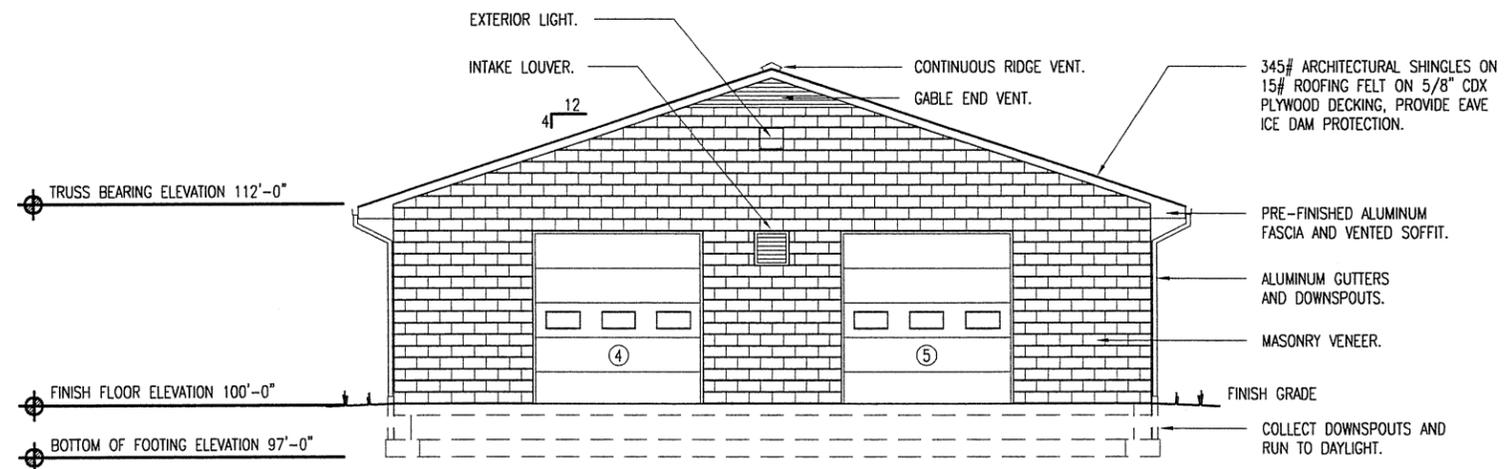
B REAR ELEVATION
 3/32" = 1'-0"



A FRONT ELEVATION
 3/32" = 1'-0"



B RIGHT ELEVATION
 10 $3/32" = 1'-0"$



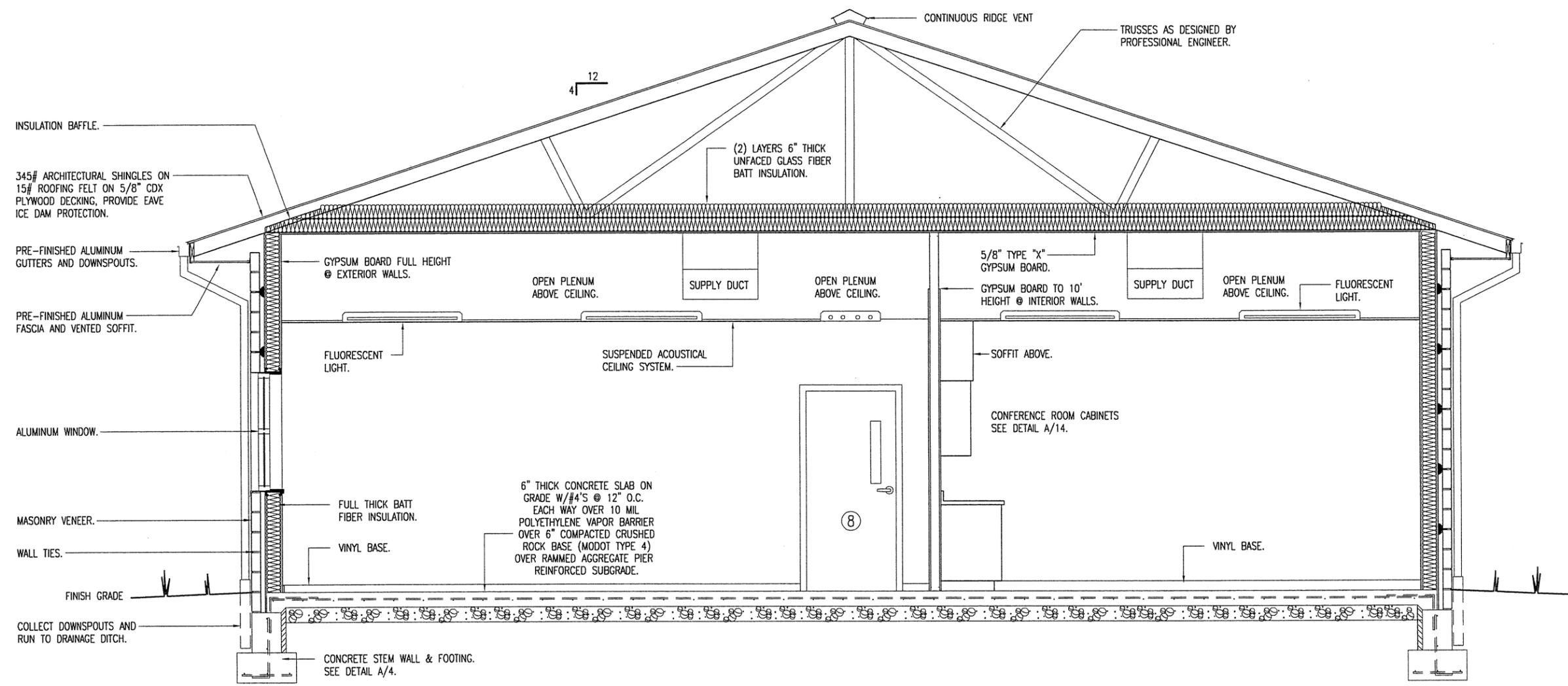
A LEFT ELEVATION
 10 $3/32" = 1'-0"$

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ELEVATIONS

MISSOURI ARCHITECT
 REGISTERED ARCHITECT
 STATE OF MISSOURI
 EXPIRES 12/31/10
 NUMBER 1-A-2101
 DESIGN BY: HARRY CARVER
 DRAWN BY: HARRY CARVER
 DATE: 9-24-09

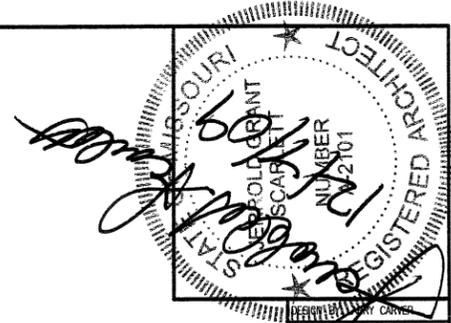


A BUILDING SECTION
 11 SCALE: 1/4" = 1'-0"

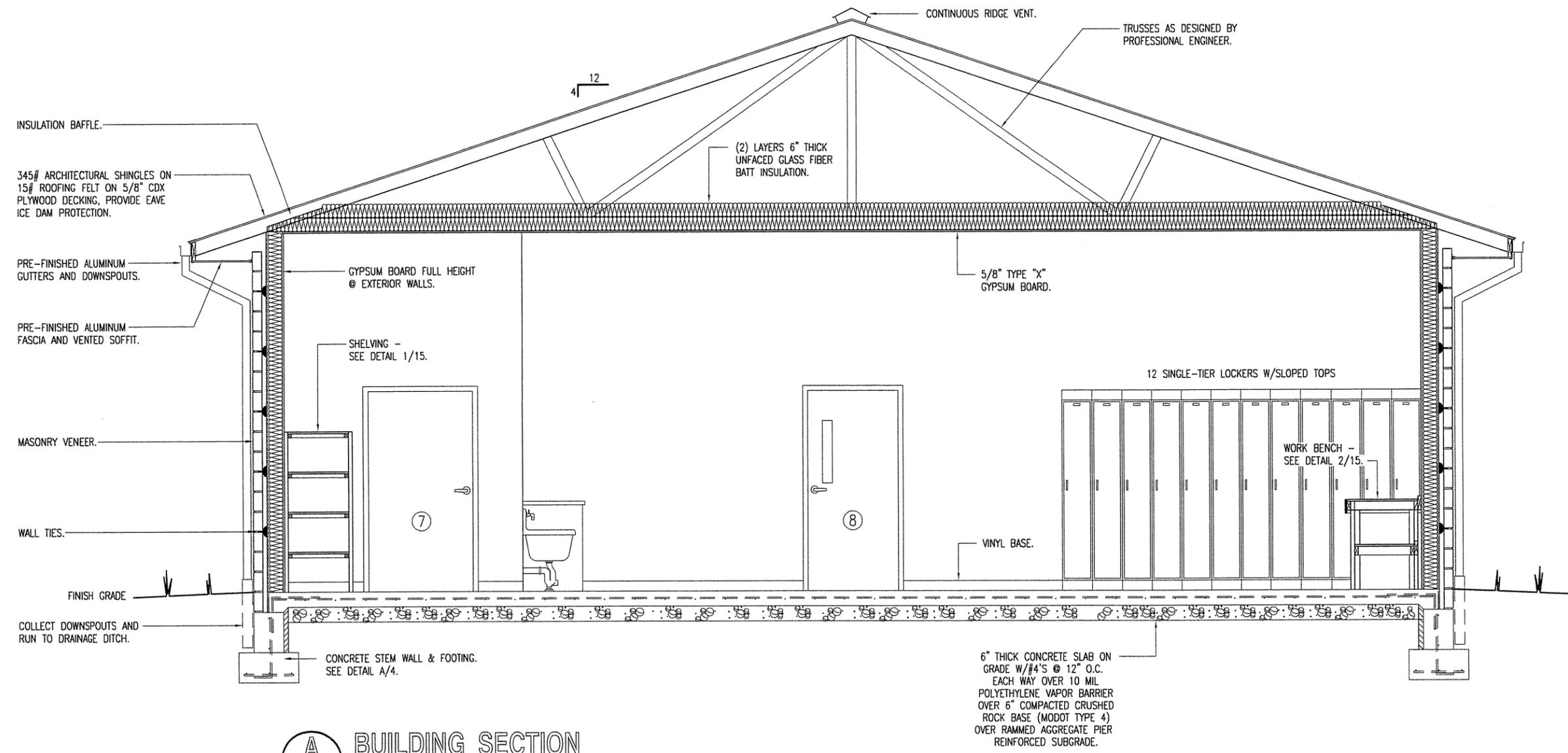
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BUILDING SECTION



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Date: 9-24-09

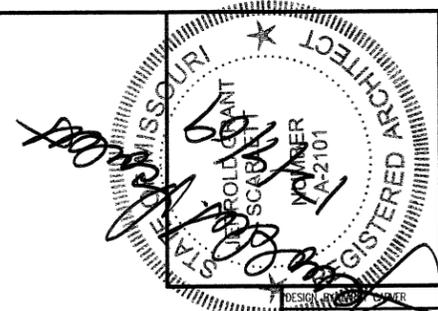


A BUILDING SECTION
12 SCALE: 1/4" = 1'-0"

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BUILDING SECTION

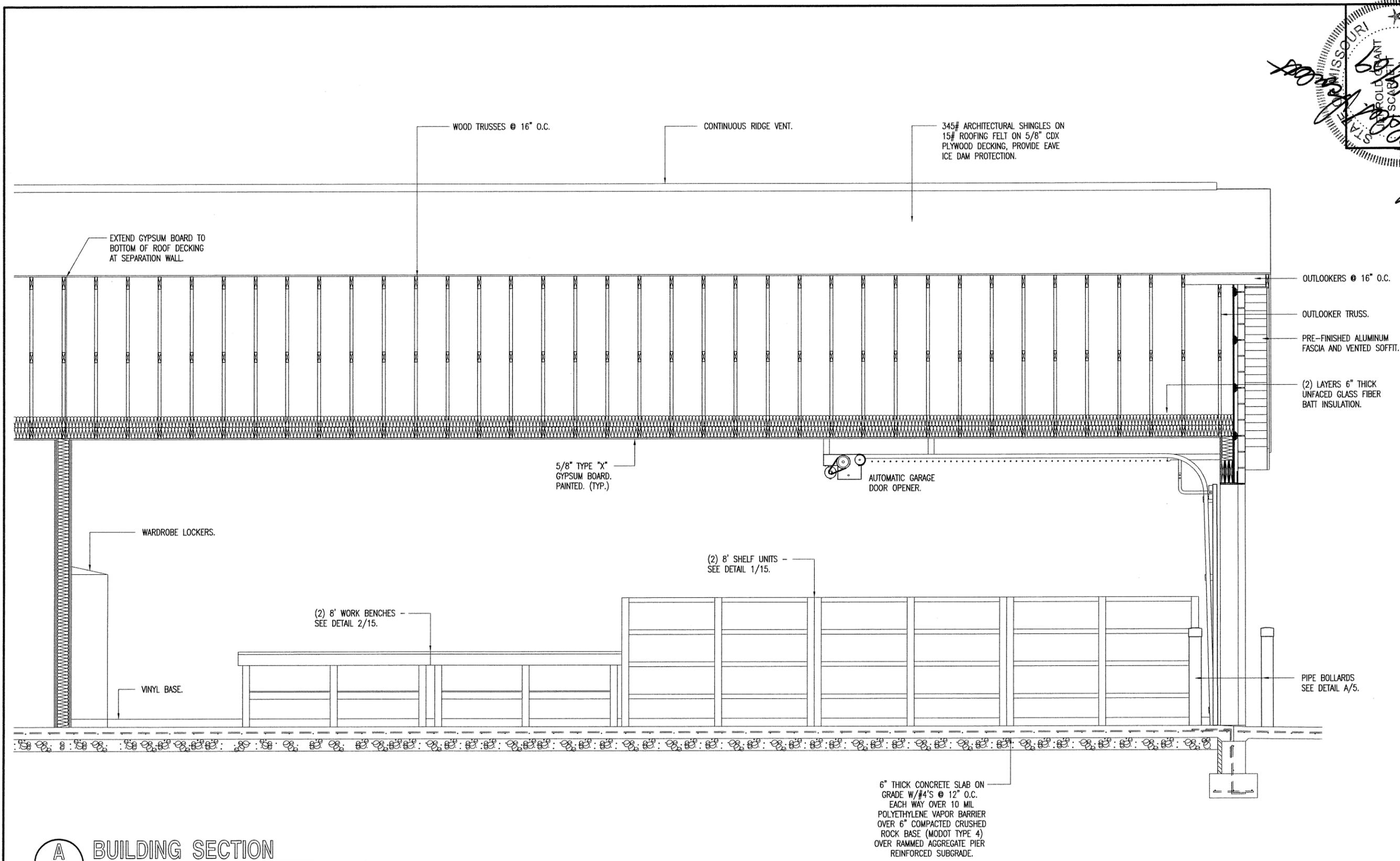


DESIGN: JERRY CARVER
 DRAWN BY: JERRY CARVER
 DATE: 10-1-09

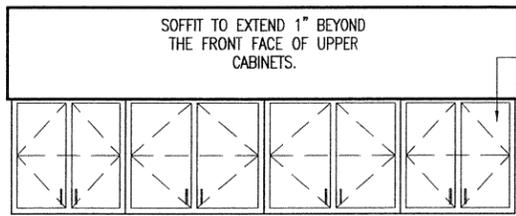
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BUILDING SECTION



A BUILDING SECTION
 13 SCALE: 1/4" = 1'-0"



SOFFIT TO EXTEND 1" BEYOND THE FRONT FACE OF UPPER CABINETS.

PLASTIC LAMINATE ON 3/4" HIGH DENSITY PARTICLEBOARD WITH WHITE MELAMINE INTERIORS, WIRE PULLS, ADJUSTABLE SHELVES SHOWN DASHED. (TYPICAL)

PLASTIC LAMINATE ON 3/4" HIGH DENSITY PARTICLEBOARD FOR COUNTER TOP AND BACKSPLASH.

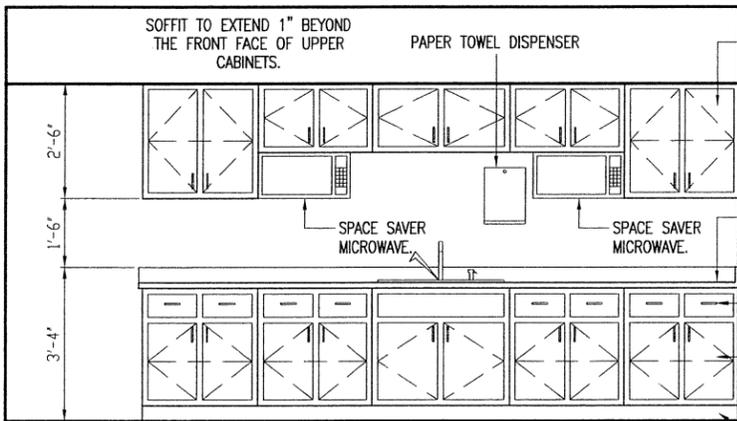
DRAWERS TO HAVE METAL GLIDES, WIRE PULLS AND WHITE MELAMINE INTERIORS

PLASTIC LAMINATE ON 3/4" HIGH DENSITY PARTICLEBOARD WITH WHITE MELAMINE INTERIORS, WIRE PULLS, ADJUSTABLE SHELVES. (TYPICAL)

4" VINYL BASE AT TOE KICK.

UPPER CABINET 30" WIDE 30" HIGH 2 - DOOR	UPPER CABINET 36" WIDE 30" HIGH 2 - DOOR	UPPER CABINET 36" WIDE 30" HIGH 2 - DOOR	UPPER CABINET 30" WIDE 30" HIGH 2 - DOOR
BASE CABINET 30" WIDE 2 - DRAWER 2 - DOOR	BASE CABINET 36" WIDE 2 - DRAWER 2 - DOOR	BASE CABINET 36" WIDE 2 - DRAWER 2 - DOOR	BASE CABINET 30" WIDE 2 - DRAWER 2 - DOOR

A CONFERENCE ROOM CABINETS
14 SCALE: 1/4" = 1'-0"



PLASTIC LAMINATE ON 3/4" HIGH DENSITY PARTICLEBOARD WITH WHITE MELAMINE INTERIORS, WIRE PULLS, ADJUSTABLE SHELVES SHOWN DASHED. (TYPICAL)

PLASTIC LAMINATE ON 3/4" HIGH DENSITY PARTICLEBOARD FOR COUNTER TOP AND BACKSPLASH.

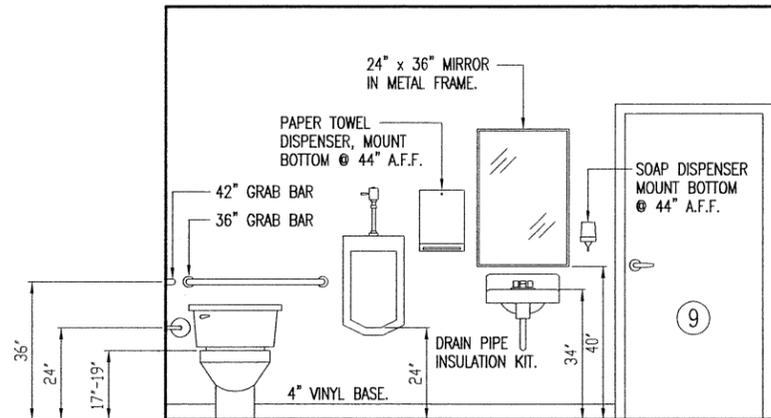
DRAWERS TO HAVE METAL GLIDES, WIRE PULLS AND WHITE MELAMINE INTERIORS

PLASTIC LAMINATE ON 3/4" HIGH DENSITY PARTICLEBOARD WITH WHITE MELAMINE INTERIORS, WIRE PULLS, ADJUSTABLE SHELVES. (TYPICAL)

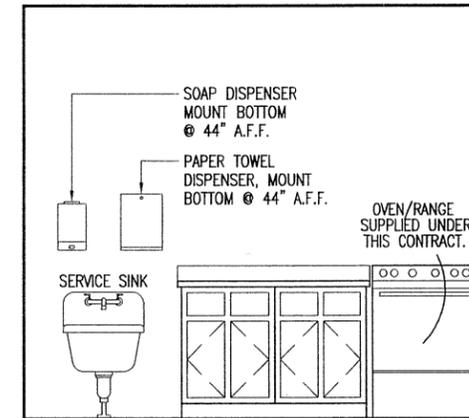
4" VINYL BASE AT TOE KICK.

UPPER CABINET 30" WIDE 30" HIGH 2 - DOOR	UPPER CABINET 30" WIDE 18" HIGH 2 - DOOR	UPPER CABINET 36" WIDE 18" HIGH 2 - DOOR	UPPER CABINET 30" WIDE 18" HIGH 2 - DOOR	UPPER CABINET 30" WIDE 30" HIGH 2 - DOOR
BASE CABINET 30" WIDE 2 - DRAWER 2 - DOOR	BASE CABINET 30" WIDE 2 - DRAWER 2 - DOOR	BASE CABINET 36" SINK BASE 2 - DOOR	BASE CABINET 30" WIDE 2 - DRAWER 2 - DOOR	BASE CABINET 30" WIDE 2 - DRAWER 2 - DOOR

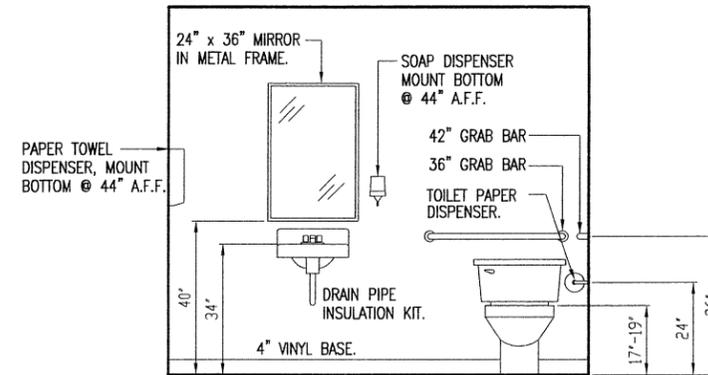
B BREAK ROOM CABINETS
14 SCALE: 1/4" = 1'-0"



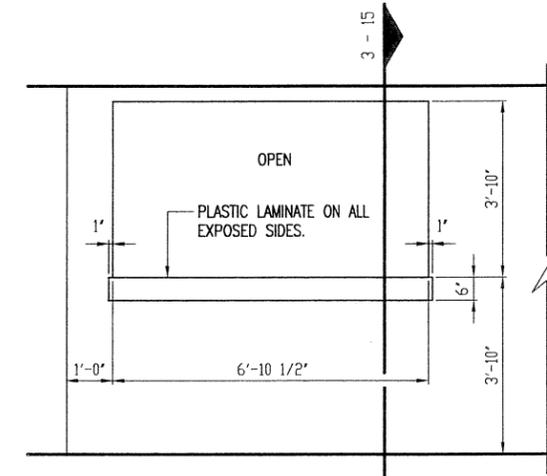
C MEN'S RESTROOM ELEVATION
14 SCALE: 1/4" = 1'-0"



E GARAGE CABINETS
14 SCALE: 1/4" = 1'-0"



D WOMEN'S RESTROOM ELEVATION
14 SCALE: 1/4" = 1'-0"



F COUNTER ELEVATION
14 SCALE: 1/4" = 1'-0"

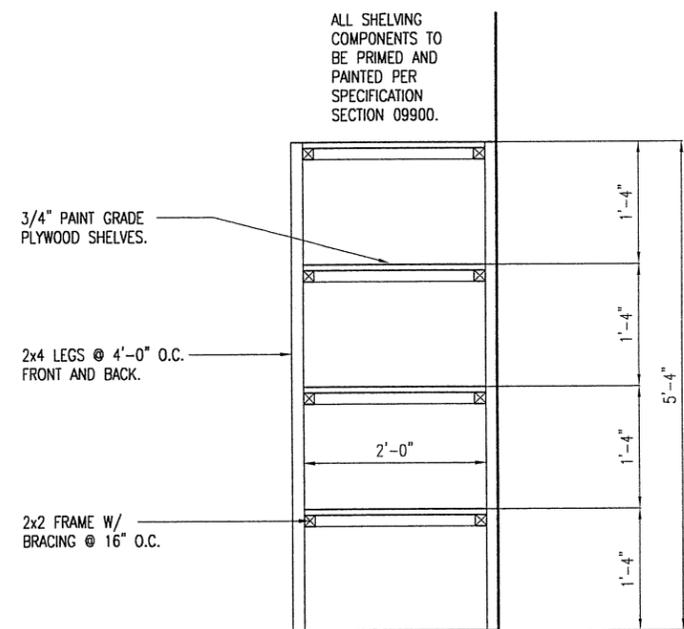


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DRAWN BY: LARRY CARVER
DATE: 10-1-09

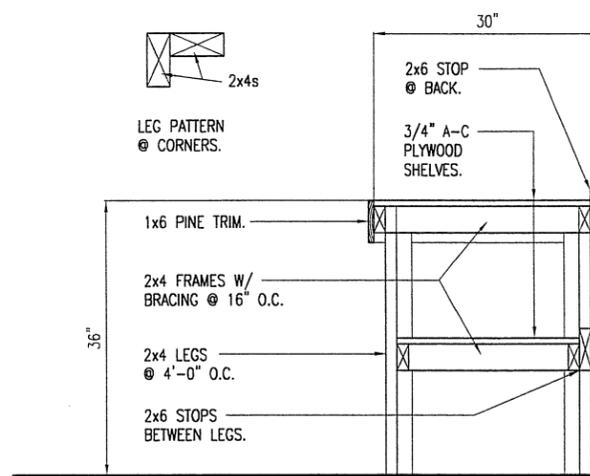
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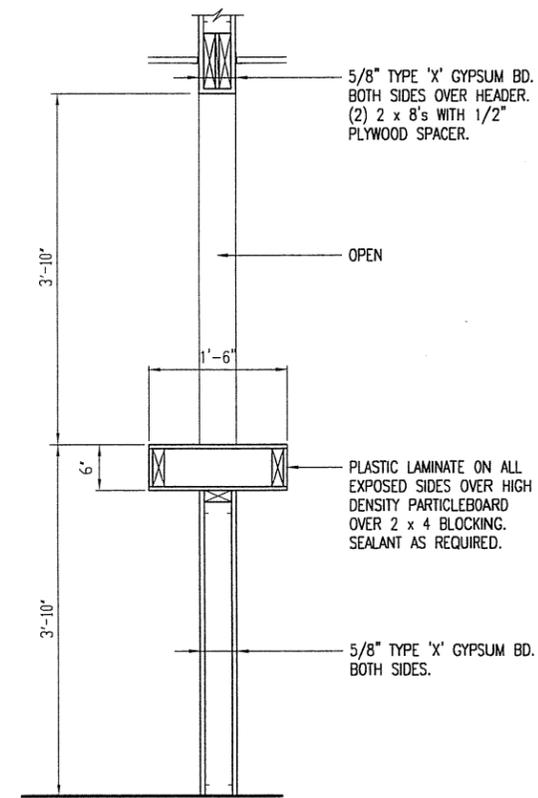
INTERIOR ELEVATIONS



1 STORAGE SHELVING DETAILS
15 1/2' = 1'-0'



2 WORK BENCH DETAILS
15 1/2' = 1'-0'



3 COUNTER DETAIL
15 1/2' = 1'-0'

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SHELVING

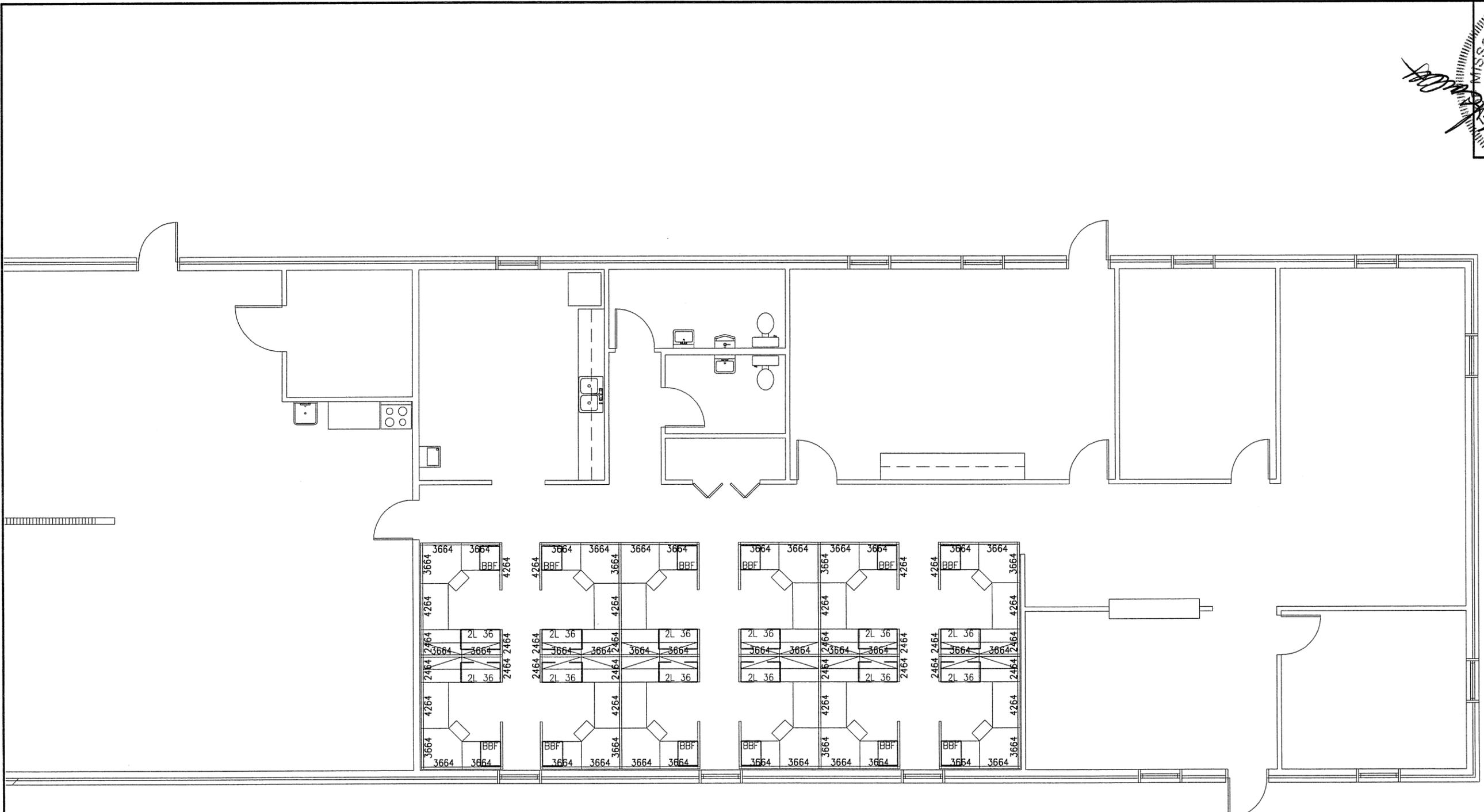


DESIGN PROFESSIONAL SEAL
 DRAWN BY: LARRY CARYER
 DATE: 6-12-09

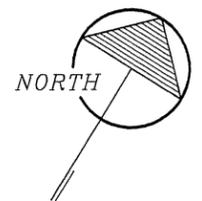
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SYSTEMS FURNITURE



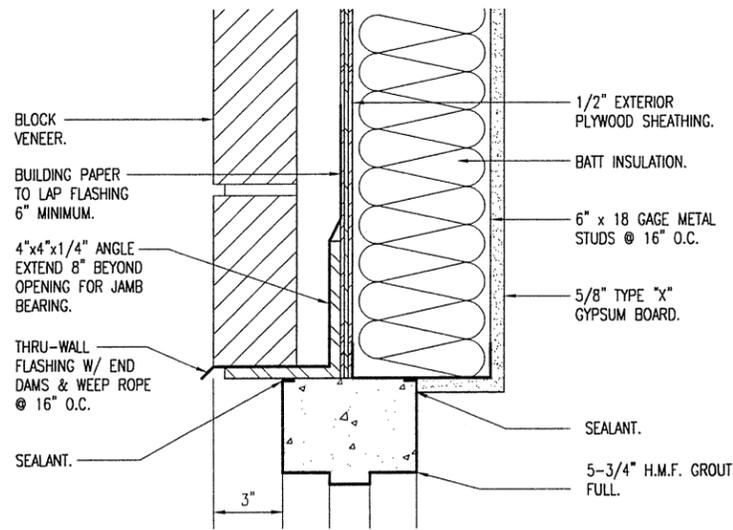
A
 16 SYSTEMS FURNITURE LAYOUT
 1/8" = 1'-0"



SYSTEMS FURNITURE PURCHASED & INSTALLED BY MODOT.

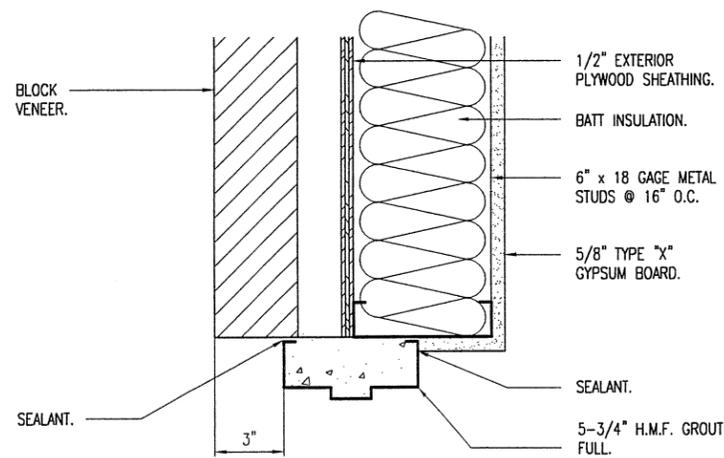
SYSTEMS FURNITURE EQUAL TO MISSOURI VOCATIONAL ENTERPRISES PANEL TO PANEL MODULAR OFFICE SYSTEMS. PROVIDE STANDARD PANELS WITH 4" BASE RACEWAY. WORK SURFACES, AND FLIPPER DOOR CABINETS W/ LIGHTS AS DETAILED ON THE PLANS.

- EACH WORK STATION TO HAVE:
- (1) PULL OUT KEYBOARD TRAY WITH MOUSE PAD.
 - (1) 3-DRAWER MOBILE/FREESTANDING FILE UNIT W/ PENCIL TRAY.
 - (1) 2-DRAWER MOBILE/FREESTANDING FILE UNIT.
 - (1) TACKBOARD.



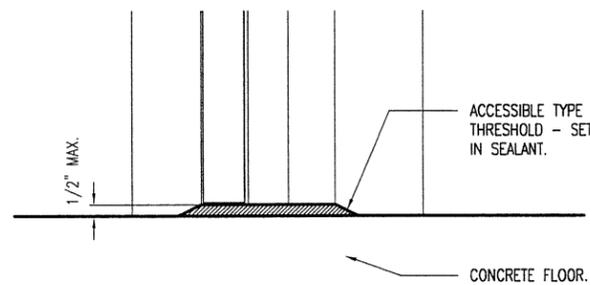
DOOR HEAD TYPE A

1-1/2" = 1'-0"



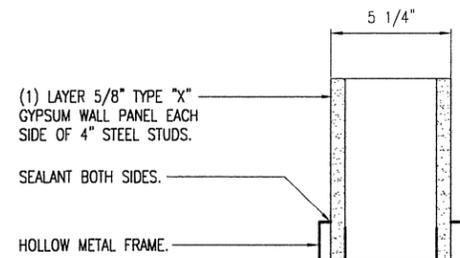
DOOR JAMB TYPE A

1-1/2" = 1'-0"



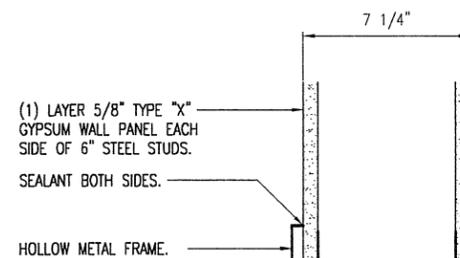
SILL TYPE A

1-1/2" = 1'-0"



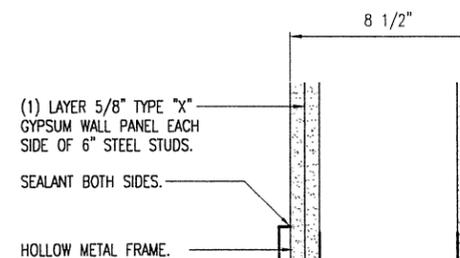
DOOR HEAD/JAMB TYPE B

1-1/2" = 1'-0"



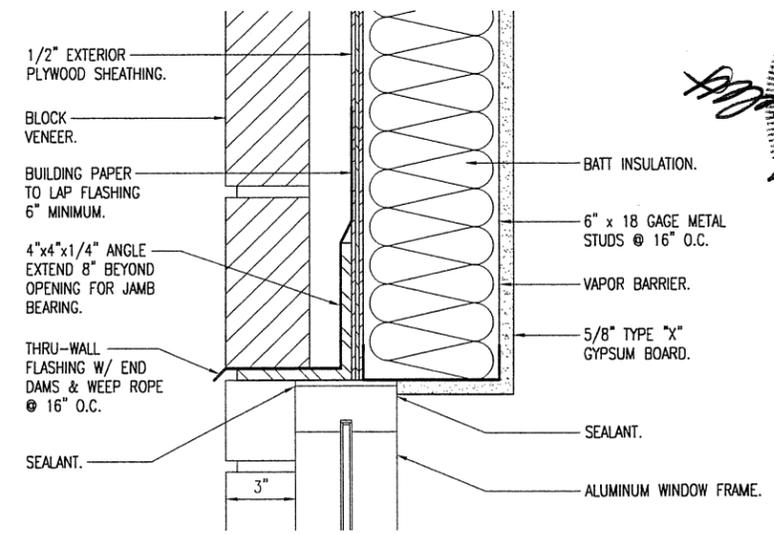
DOOR HEAD/JAMB TYPE C

1-1/2" = 1'-0"



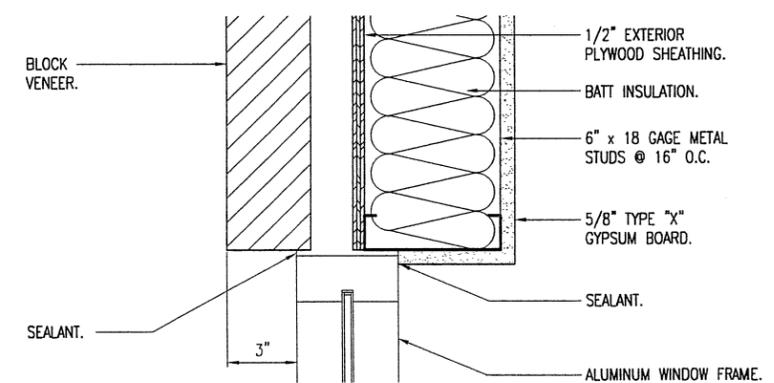
DOOR HEAD/JAMB TYPE D

1-1/2" = 1'-0"



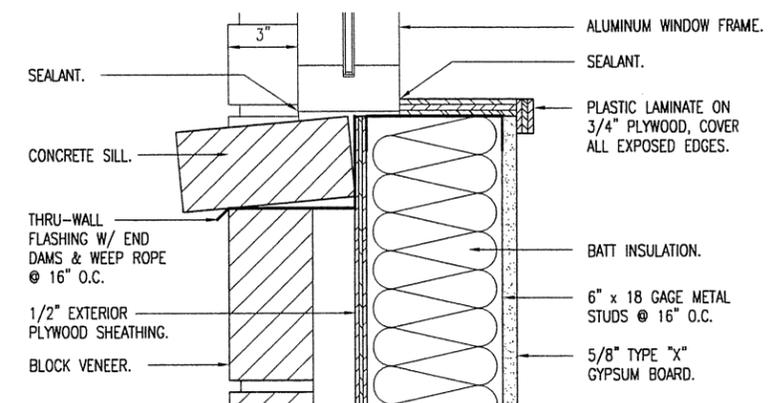
WINDOW HEAD

1-1/2" = 1'-0"



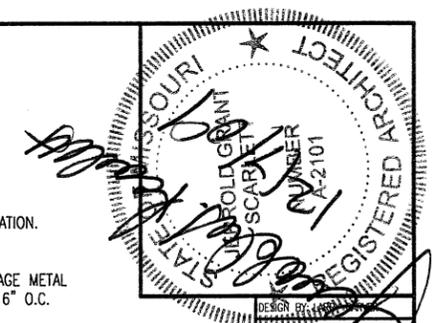
WINDOW JAMB

1-1/2" = 1'-0"



WINDOW SILL

1-1/2" = 1'-0"



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Head & Jamb Details

30-YEAR ARCHITECTURAL SHINGLES
ON 15# ROOFING FELT ON 5/8" CDX
PLYWOOD DECKING, PROVIDE EAVE
ICE DAM PROTECTION.

INSULATION BAFFLE.

PRE-FINISHED
GUTTERS.

PREFINISHED ALUMINUM
FASCIA AND VENTED SOFFIT.

BLOCK VENEER.

4" x 4" x 1/4" ANGLE
EXTEND 12" BEYOND OPENING
FOR JAMB BEARING.

ALUMINUM WINDOW.

CONCRETE SILL.

1/2" EXTERIOR
PLYWOOD SHEATHING.

15# BUILDING FELT.

2" AIR SPACE.

MASONRY VENEER.

ADJUSTABLE WALL TIES
16" O.C. VERTICAL
24" O.C. HORIZONTAL.

THRU-WALL FLASHING
W/ END DAMS AND,
1/4" COTTON WEEP
ROPE @ 16" O.C.

GROUT- FULL.

CONCRETE STEM WALL &
FOOTING. SEE DETAIL 2/5.

12
4

TRUSS BEARING 112'-0"
(2) 2 x 6 TOP PLATE.

PROVIDE HEADERS ABOVE
ALL DOORS & WINDOWS.

FINISH CEILING 109'-0"

SUSPENDED ACOUSTICAL
CEILING SYSTEM.

WINDOW - HEAD, JAMB, & SILL
DETAILS, SEE SHEET 17.

BATT INSULATION.

6" METAL STUDS
@ 16" O.C.

5/8" TYPE "X"
GYPSUM BOARD.

FINISH FLOOR
ELEVATION 100'-0"

A WALL SECTION
18 1/2" = 1'-0"

PRE-FINISHED ALUMINUM
FASCIA AND VENTED SOFFIT.

(3) 2 x 10 HEADER W/
1/2" PLYWOOD SPACERS.

4" x 6" x 5/16" ANGLE
EXTEND 12" BEYOND OPENING
FOR JAMB BEARING.

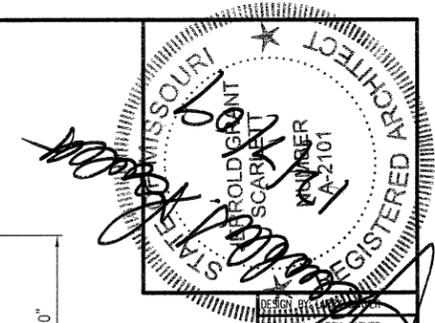
1 x 10 TRIM, RIP TO FIT
& WRAP WITH BENT
SHEET STOCK.

BLOCK VENEER.

TRUSS BEARING 112'-0"
FINISH CEILING.

FINISH FLOOR
ELEVATION 100'-0"

B WALL SECTION
18 1/2" = 1'-0"

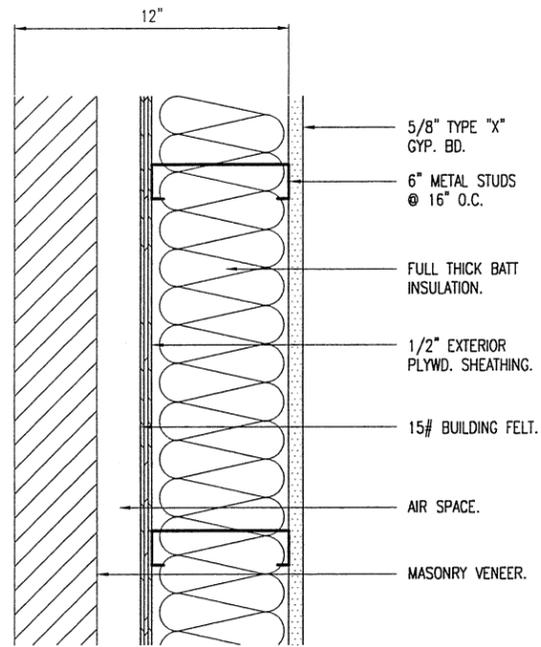


DESIGN BY
DRAWN BY CARRI CARVER
DATE 9-24-09

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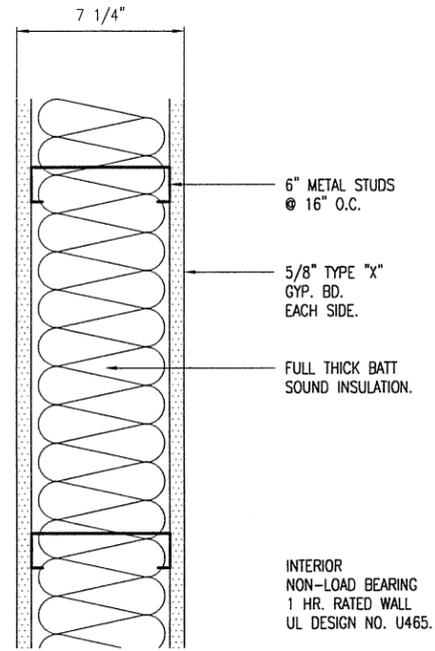
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WALL SECTIONS



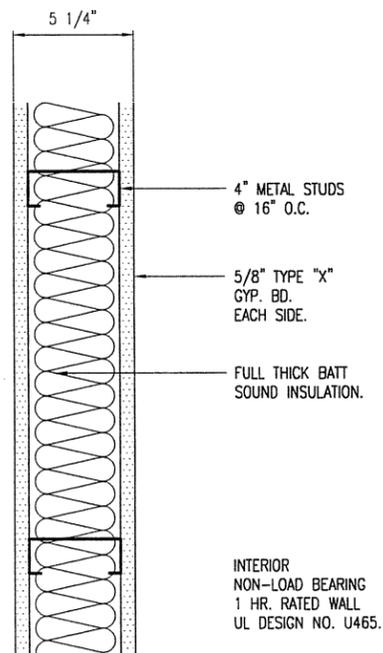
WALL TYPE "A"

1-1/2" = 1'-0"



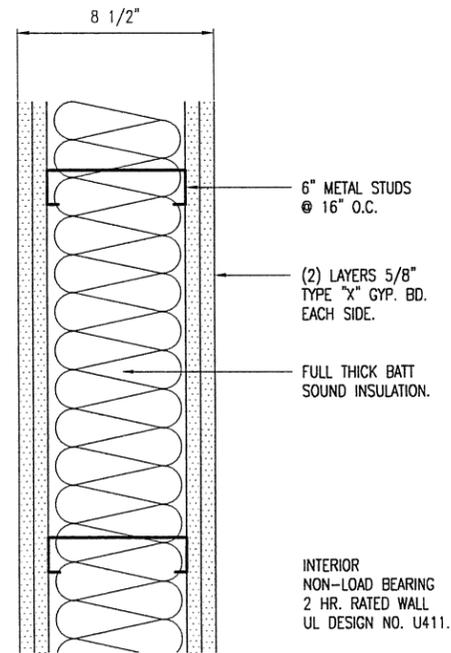
WALL TYPE "B"

1-1/2" = 1'-0"



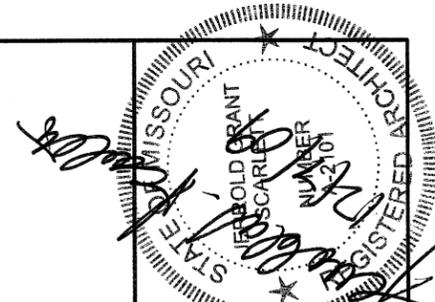
WALL TYPE "C"

1-1/2" = 1'-0"



WALL TYPE "D"

1-1/2" = 1'-0"



DESIGN BY: LARRY CASPER
 DRAWN BY: LARRY CASPER
 DATE: 6-1-09

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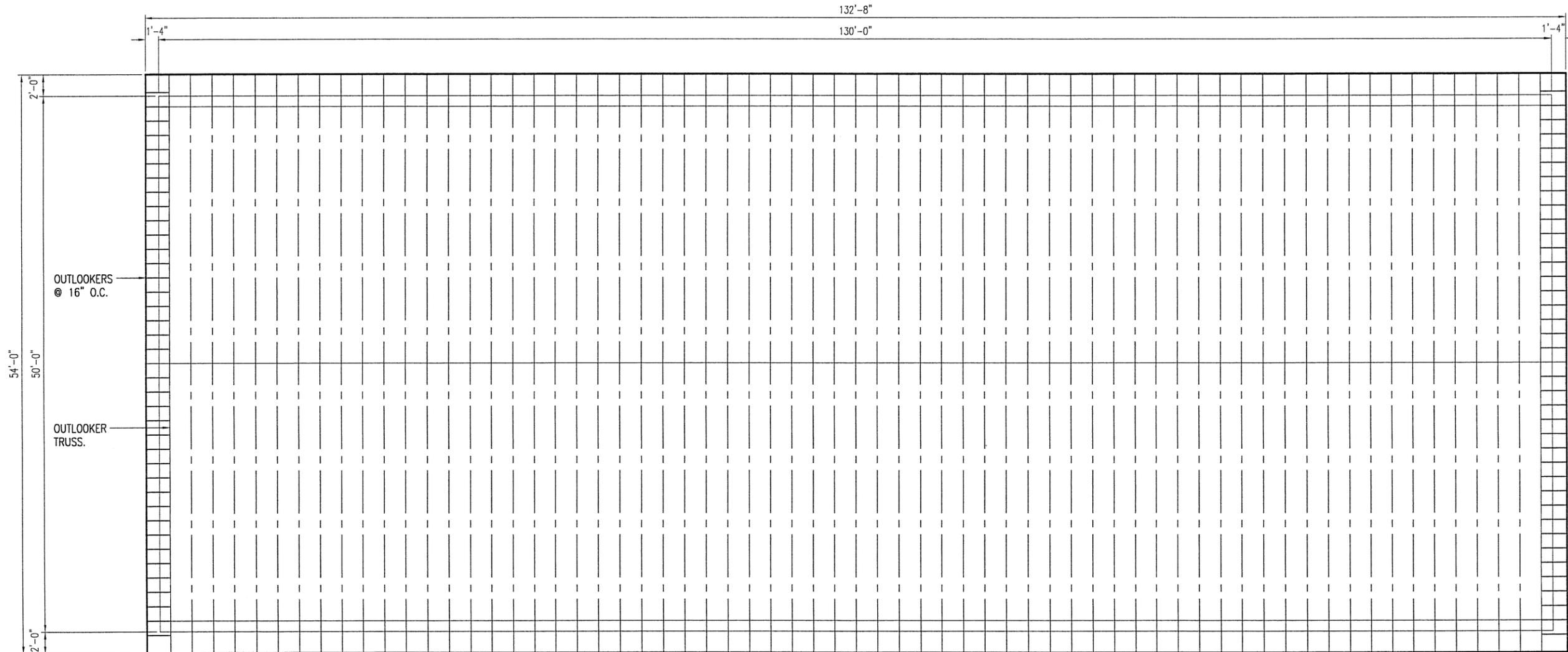
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WALL TYPES

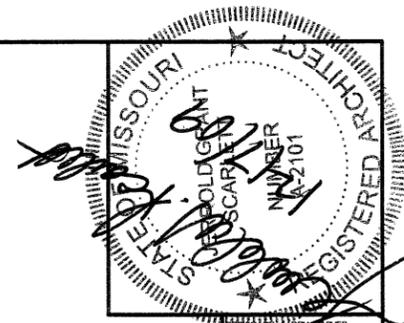
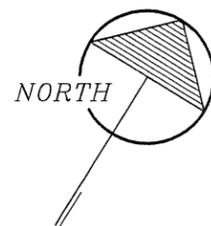
ROOF FRAMING NOTES

- DESIGN LOADING FOR ROOF TRUSSES SHALL MEET THE FOLLOWING CRITERIA:

ROOF LIVE LOAD	20 PSF
ROOF DEAD LOAD	20 PSF
EARTHQUAKE	ZONE 1, LATEST EDITION IBC
WIND	10 MPH, EXPOSURE B
DEFLECTION	L/360
SPACING	24" O.C.
- TRUSS DESIGN SUBMITTALS SHALL BE SEALED AND SIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF MISSOURI.
- ROOF TRUSSES AND RAFTERS SHALL BE ANCHORED TO THE TOP PLATE OF LOAD BEARING WALLS WITH SEISMIC AND HURRICANE ANCHORS EQUAL TO SIMPSON STRONG TIE #H1 ANCHORS.



A ROOF FRAMING PLAN
 20 3/32" = 1'-0"

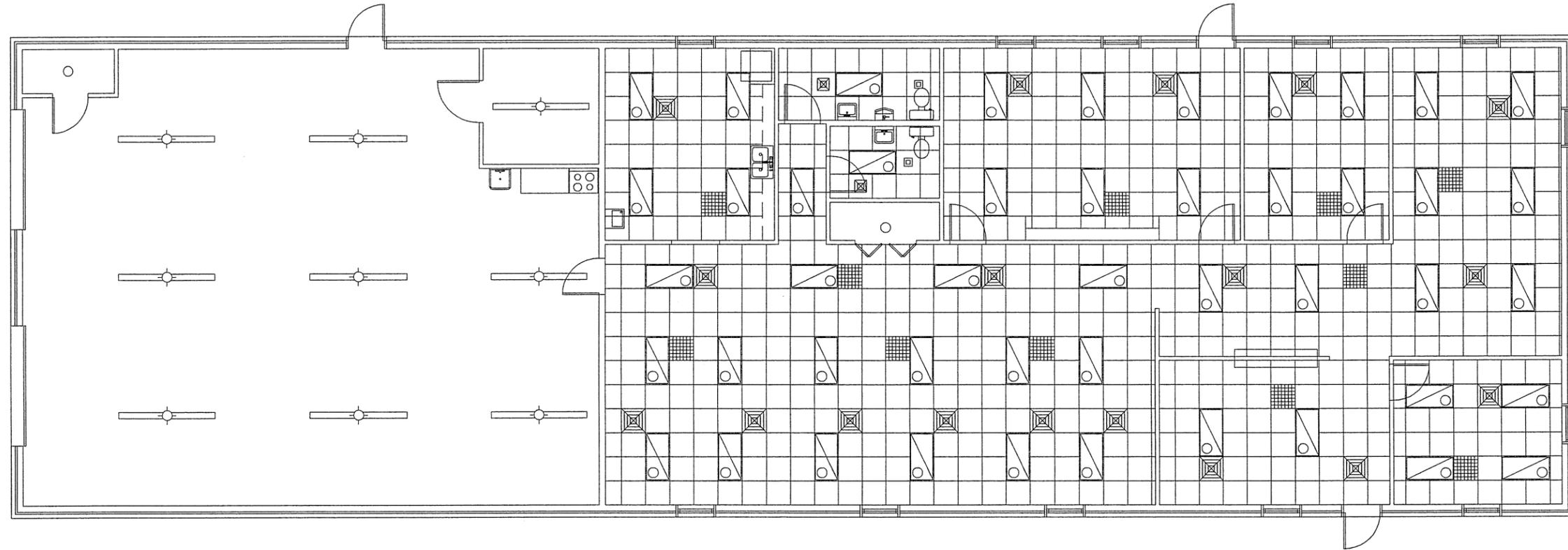


DESIGN BY: LARRY CARVER
 DRWN. BY: LARRY CARVER
 DATE: 5-29-09

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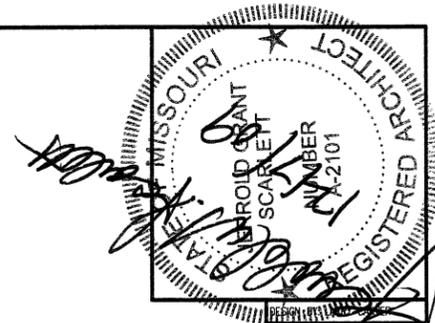
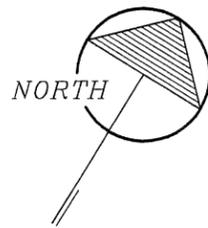
ROOF FRAMING PLAN



A
21

REFLECTED CEILING PLAN

3/32" = 1'-0"

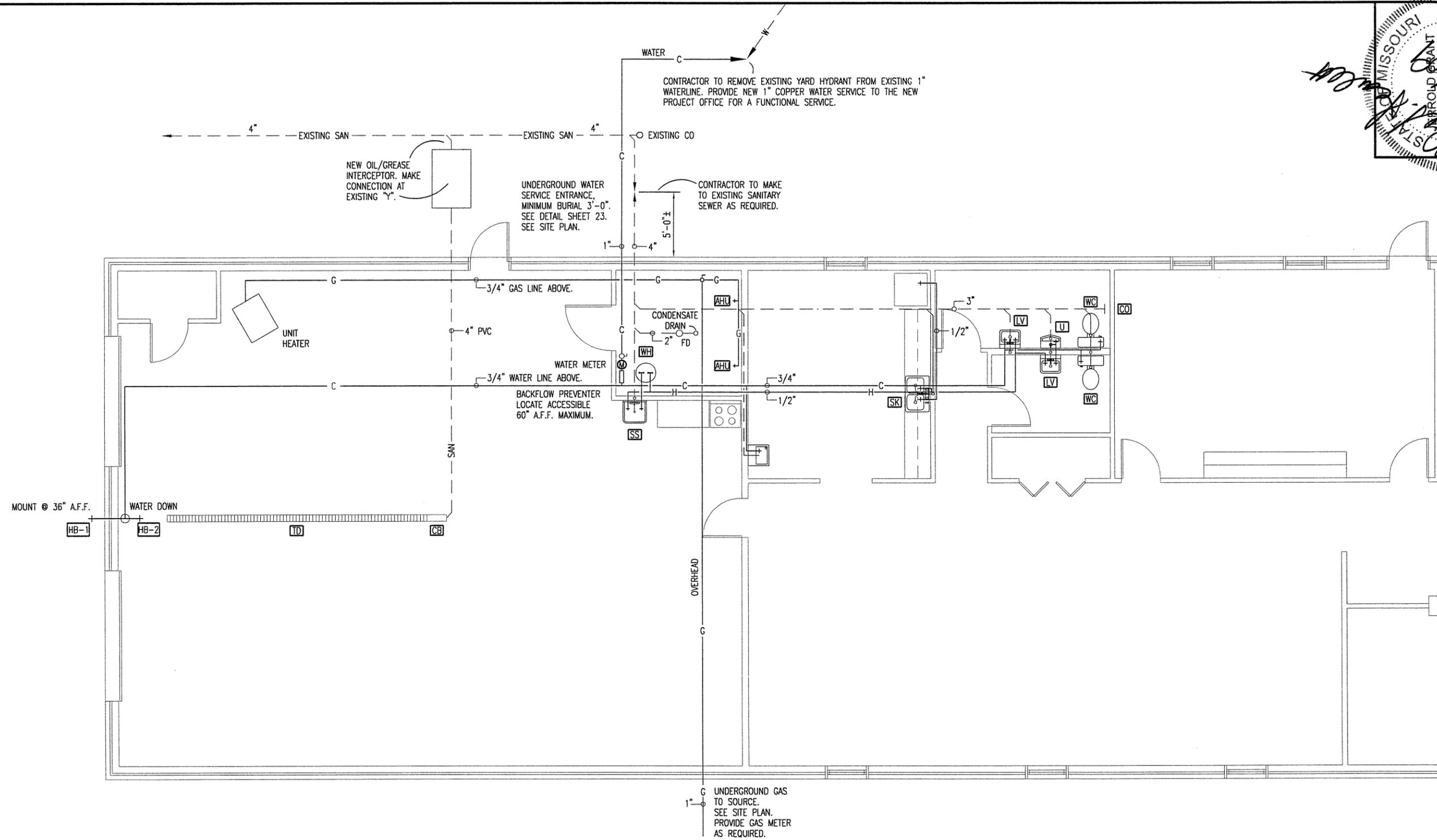
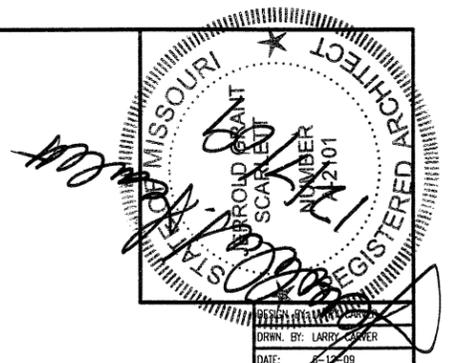


DESIGN BY: [Signature]
DRAWN BY: LARRY CARVER
DATE: 5-28-09

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REFLECTED CEILING PLAN



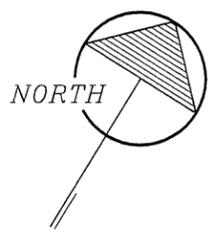
DRWN. BY: LARRY SAWYER
DATE: 12-12-09

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PLUMBING PLAN

A PLUMBING PLAN
22
1/8" = 1'-0"



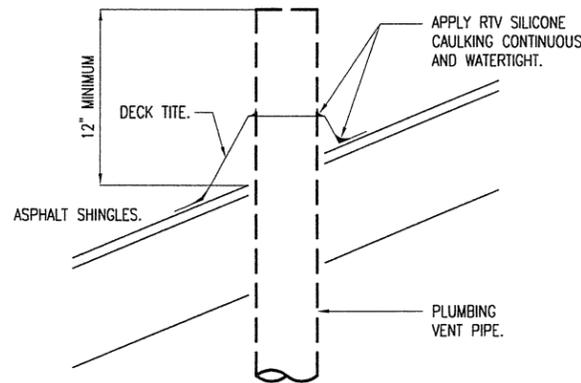
CONTRACTOR NOTE:
STORM SEWER NOT SHOWN. SEE SITE PLAN. FOR DOWNSPOUT ADAPTERS SEE DETAIL E-4. USE 6" SCHEDULE 35 PVC FOR THE BELOW GRADE STORM SEWER ON THE FIRST THREE DOWNSPOUTS AND 8" SCHEDULE 35 PVC THEREAFTER ON BOTH SIDE. DRAIN EASTERLY.

PLUMBING FIXTURE SCHEDULE

SYM.	FIXTURE	PIPE CONNECTION				REMARKS
		CW	HW	S&W	VENT	
WC	WATER CLOSET	1/2"		3"	2"	EQUAL TO AMERICAN STANDARD #2216.143, FLOOR MOUNT, CADET II, ELONGATED TOILET W/ #5311.012 CLOSED FRONT ELONGATED SEAT.
U	URINAL	3/4"		1-1/2"	1-1/2"	EQUAL TO AMERICAN STANDARD #6601.021 "LYNBROOK" 1.0 URINAL WITH SLOAN ROYAL 180-1 FLUSH VALVE.
LV	LAVATORY	1/2"	1/2"	1-1/4"	1-1/4"	EQUAL TO AMERICAN STANDARD #4867.024, 20" x 18" ENAMELED CAST IRON "REGALYN" WALL MOUNT LAVATORY W/ 4" CENTERSET SYMMONS S-90-2-G-FR-W SINGLE LEVER LAVATORY FAUCET.
SK	SINK	1/2"	1/2"	1-1/4"	1-1/4"	EQUAL TO AMERICAN STANDARD #7024.804 SINGLE BOWL SINK, WITH STANDARD 4 HOLE PATTERN, AND ELKAY MODEL LK-4301-F CHROME FAUCET SPOUT, SWIVEL AERATOR, AND SPRAY.
SS	SERVICE SINK	1/2"	1/2"	3"	2"	EQUAL TO AMERICAN STANDARD #7692.049, 22" x 18" ENAMELED, CAST IRON "LAKEWELL" SERVICE SINK W/ 8340.242 HERITAGE LEVER HANDLE FAUCET, AND 7798.176 P-TRAP.
DF	WATER COOLER	1/2"		1-1/4"		EQUAL TO ELKAY MODEL EBFA-4 BARRIER-FREE, WALL MOUNT WATER COOLER. MOUNT ACCESSIBLE.
WH	WATER HEATER	3/4"	3/4"			EQUAL TO A.O. SMITH #PEC-30 "CONSERVATIONIST" WITH (2) 4500 WATT, 240 V ELEMENTS, 30 GALLON ELECTRIC WATER HEATER WITH PRESSURE RELIEF VALVE.
HB-1	HOSE BIBB	3/4"				EXTERIOR - EQUAL TO WOODFORD MODEL 67 FREEZELESS WALL HYDRANT W/ 3/4" H.P.T. OUTLET, INTEGRAL VACUUM BREAKER-BACK FLOW PREVENTER.
HB-2	HOSE BIBB	3/4"				INTERIOR - EQUAL TO WOODFORD MODEL 26 WALL FAUCET W/ 3/4" H.P.T. OUTLET, INTEGRAL VACUUM BREAKER-BACKFLOW PREVENTER.
FD	FLOOR DRAIN			2"		CAST IRON FLOOR DRAIN WITH P-TRAP, AND ADJUSTABLE 5" DIA. NICKLE-BRONZE STRAINER; CONFORMING TO FEDERAL SPECIFICATION WW-P-541B.
TD	TRENCH DRAIN			4"		EQUAL TO ACO K 100S CHANNEL SLOPE TRENCH DRAIN SYSTEM WITH "QUICK LOCK" IRON GRATE (CLASS "C").
CB	CATCH BASIN			4"		EQUAL TO ACO MODEL 900K - CATCH BASIN, WITH GALVANIZED TRASH BUCKET AND #460 QUICKLOCK CAST IRON GRATE.
OS	OIL SEPARATOR			4"		EQUAL TO CHAMPION PRECAST INC. 1,200 GALLON OIL AND GREASE INTERCEPTOR STOCK NO. 190-00117-0/HD 190-00118-0.
CO	CLEAN OUT					PVC-DWV W/ ADAPTER AND CAP EQUAL TO PIPE SIZE SHOWN.

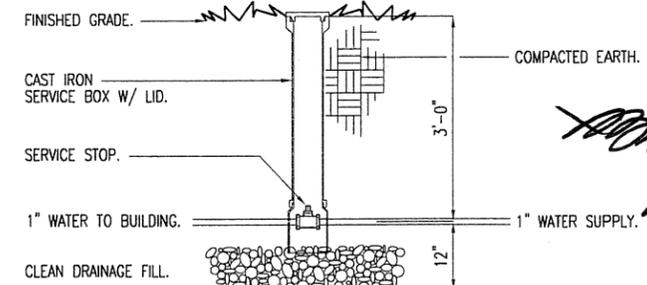
LEGEND

HOT WATER	_____	H	_____
COLD WATER	_____	C	_____
GAS	_____	G	_____
SANITARY SEWER	_____	S	_____
STORM SEWER	_____	SS	_____
CLEANOUT	— —	C.O.	
FLOOR DRAIN	○	F.D.	
BALL VALVE	●		
GAS VALVE	■		



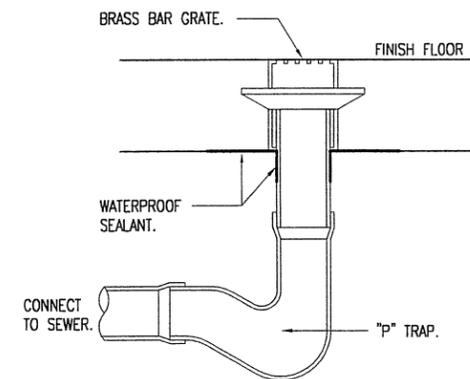
VENT THROUGH ROOF DETAIL

NOT TO SCALE



WATER VALVE & DRAIN

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

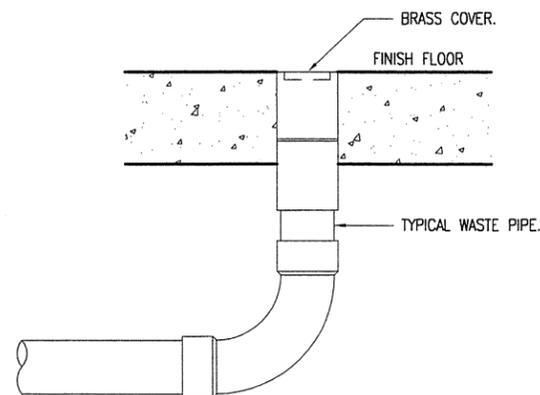


FLOOR DRAIN DETAIL

NOT TO SCALE

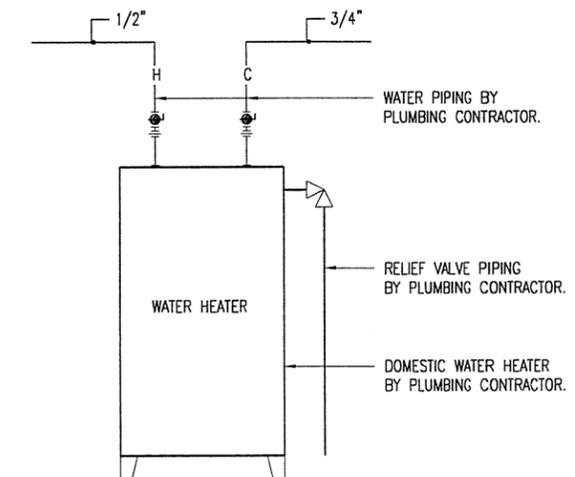
PLUMBING NOTES

- DRAWINGS AND DIAGRAMS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS.
- PLUMBING SHALL BE INSTALLED IN STRICT COMPLIANCE WITH THE LATEST EDITION OF THE INTERNATIONAL BUILDING CODE.
- PLUMBING SHALL BE LOCATED AND PLACED UNDER THE SLAB PRIOR TO POURING OF CONCRETE. PIPING SHALL BE RUN IN SAND FILLED TRENCH UNDER THE BASE ROCK AND SLEEVED WITH PVC WHENEVER RUN THROUGH CONCRETE.
- PROVIDE PLUMBING EQUIPMENT AND ACCESSORIES REQUIRED FOR COMPLETE AND OPERATIONAL PLUMBING SYSTEMS AS REQUIRED BY MANUFACTURER'S INSTRUCTIONS AND DIRECTIONS FOR SYSTEMS SPECIFIED.
- PLUMBING VENTS ARE NOT SHOWN ON THE PLANS. ALL FIXTURES SHALL BE PROPERLY VENTED AS PER NATIONAL PLUMBING CODE.
- ROOF VENTS SHALL BE COMBINED WHEREVER IN COMPLIANCE WITH THE NATIONAL PLUMBING CODE TO MINIMIZE ROOF PENETRATIONS.
- EXTERIOR BELOW-GROUND WATER DISTRIBUTION PIPING SHALL RUN A MINIMUM OF 36 INCHES BELOW FINISH GRADE.
- PROVIDE SHUT OFF VALVES AT EACH FIXTURE.
- PROVIDE SHOCK ABSORBERS AS REQUIRED AT EACH FAUCET.
- PROVIDE BACKFLOW PREVENTER AT WATER SUPPLY ENTRANCE.
- PROVIDE 3/8" COPPER WATER LINE TO REFRIGERATOR WITH SHUT-OFF AS REQUIRED FOR THE REFRIGERATOR'S ICE MAKER. SHUT-OFF TO BE INSIDE WALL COVERED BY KARP BRAND 8" x 8" HANDI-ACCESS PLASTIC ACCESS PANEL. WATER LINE TO BE THROUGH FINISHED WALL WITH CHROME ESCUTCHEON.



FLOOR CLEANOUT DETAIL

NOT TO SCALE



WATER HEATER PIPING

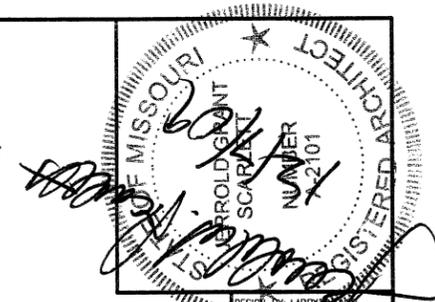
NOT TO SCALE



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Plumbing Notes & Schedule



DESIGN BY: LARRY SAWYER
 DRAWN BY: LARRY SAWYER
 DATE: 10/1/08

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Mechanical Notes & Schedule

HVAC SCHEDULE

SYM.	MANUF.	MODEL	OUTPUT	FUEL	VOLTAGE	REMARKS
A	CARRIER	58MCB120-1-20	100,000 BTU	NATURAL GAS	115	90+ AFUE, 2000 CFM UP FLOW GAS FURNACE. W/ 3" CONCENTRIC VENT TERMINATION KIT, HUMIDIFIER, AND ELECTRONIC AIR CLEANER.
B	CARRIER	CNPVP6124ATA 24ABB360A00-5	60,000 BTU	ELECTRIC	115 208	ENCASED EVAPORATOR COIL. 5 TON, 13 SEER, 3-PHASE CONDENSING UNIT.
C	REZNOR	UDAP-75	60,000 BTU	NATURAL GAS	115	GAS FIRED UNIT HEATER, WITH SPARK IGNITION, TIMED LOCK-OUT, AND REZNOR CL-1 STANDARD HEATING ONLY THERMOSTAT.
D	DAYTON	4C269	3185/2850 CFM	ELECTRIC	115	24" DIA. SHUTTER-MOUNTED EXHAUST FAN, 1/4HP, 1-PH MOTOR, TWO SPEED WALL SWITCH 2X605, WALL COLLAR 4YD01, WEATHER HOOD 4YD06.
E	DAYTON	3C727		ELECTRIC	115	24" MEDIUM GRADE, MOTORIZED, GALVANIZED STEEL DAMPER W/ 1-PH MOTOR. WIRE TO OPEN WHEN EXHAUST FAN IS TURNED ON.
F	FANTECH	RVF6XL	315 CFM	ELECTRIC	115	REMOTE MOUNTED EXHAUST FAN 1/15 HP, 1-PH TOTALLY ENCLOSED MOTOR WITH TIMER.
T	CARRIER	TSTAT CCPAC01-B				7 DAY PROGRAMMABLE THERMOSTAT.

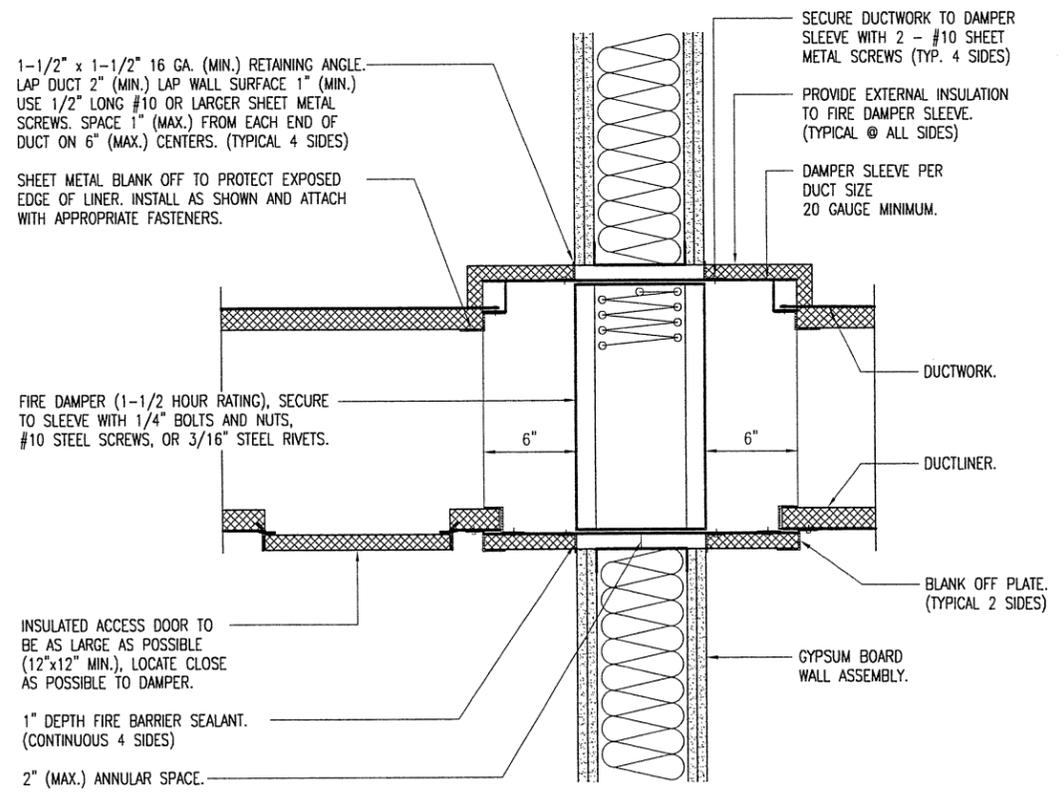
PROVIDE CONDENSATE TRAP AT ALL COILS AND PIPE TO NEAREST FLOOR DRAIN WITH 3/4" SCHEDULE 40 PVC. MECHANICAL EQUIPMENT IS SCHEDULED BY MANUFACTURER AND MODEL NUMBER FOR DESIGN INTENT ONLY, APPROVED EQUALS MAY BE SUBSTITUTED.

MECHANICAL NOTES

- DRAWINGS AND DIAGRAMS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS.
- MECHANICAL WORK SHALL BE INSTALLED IN STRICT COMPLIANCE WITH THE LATEST EDITION OF THE INTERNATIONAL BUILDING CODE.
- PROVIDE EQUIPMENT AND APPURTENANCES NOT NECESSARILY SHOWN OR SPECIFIED BUT NEEDED FOR COMPLETE AND PROPER INSTALLATION.
- ALL EQUIPMENT AND MATERIALS, IN PARTICULAR VALVES, FILTERS, MOTORS, AND CONTROLS SHALL BE ARRANGED TO PROVIDE PROPER CLEARANCE FOR SERVICE, MAINTENANCE, AND INSPECTION.
- MECHANICAL SUBCONTRACTOR SHALL FULLY COORDINATE ALL WORK WITH PLUMBING AND ELECTRICAL WORKERS PRIOR TO COMMENCING OF THE MECHANICAL INSTALLATION.
- SEE REFLECTED CEILING PLAN FOR EXACT DIFFUSER LOCATIONS.

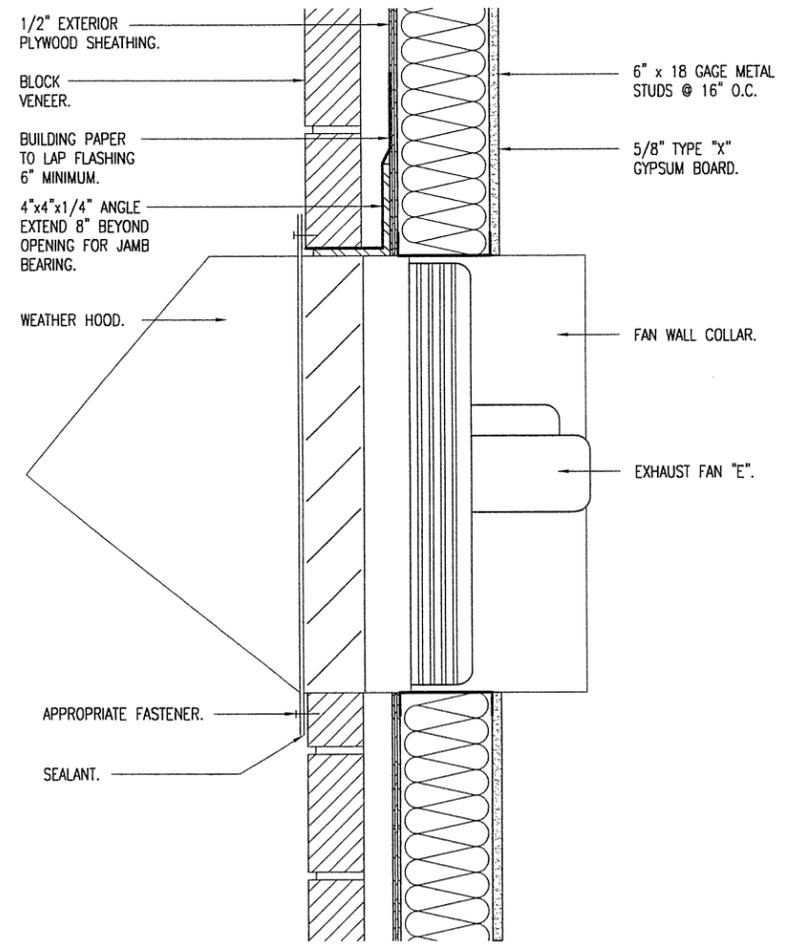
MECHANICAL SYMBOLS

- CSD 175 CFM 24" x 24" SUPPLY DIFFUSER AND CFM
- CRG 24x24 CEILING RETURN AIR GRILLE
- EG 75 EXHAUST GRILLE AND CFM
- T THERMOSTAT - MOUNT @ 46" A.F.F.
- Ø ROUND - DIMENSION SHOWN IS ID



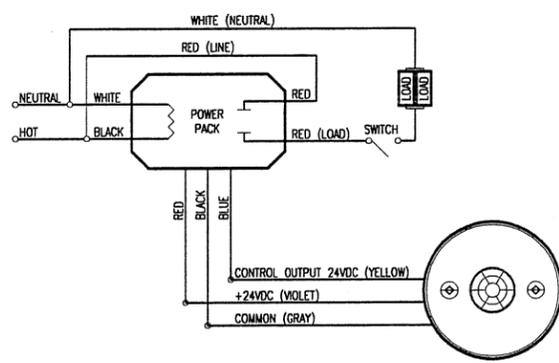
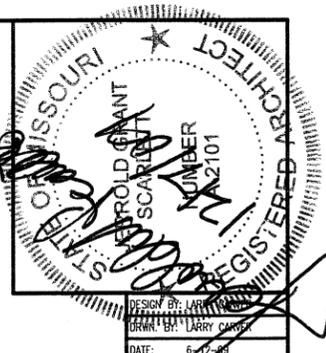
DUCT THROUGH 2-HOUR ASSEMBLY WALL

NOT TO SCALE

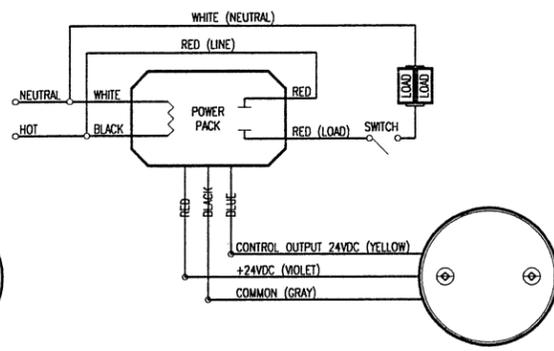


WALL FAN INSTALLATION

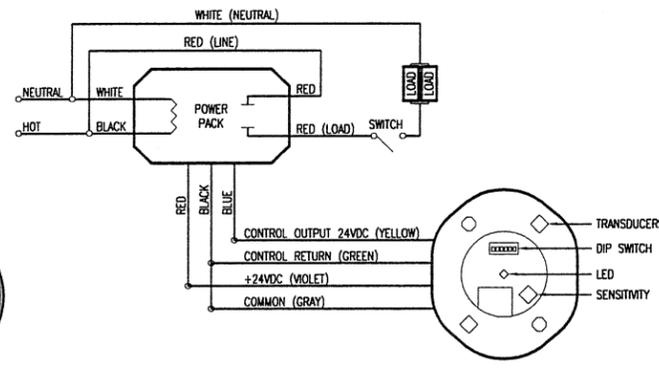
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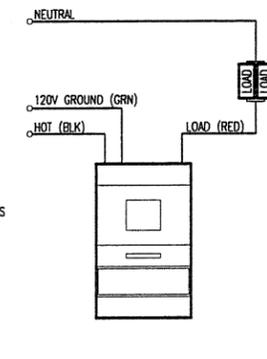
DT-300 WIRING



UT-300 WIRING



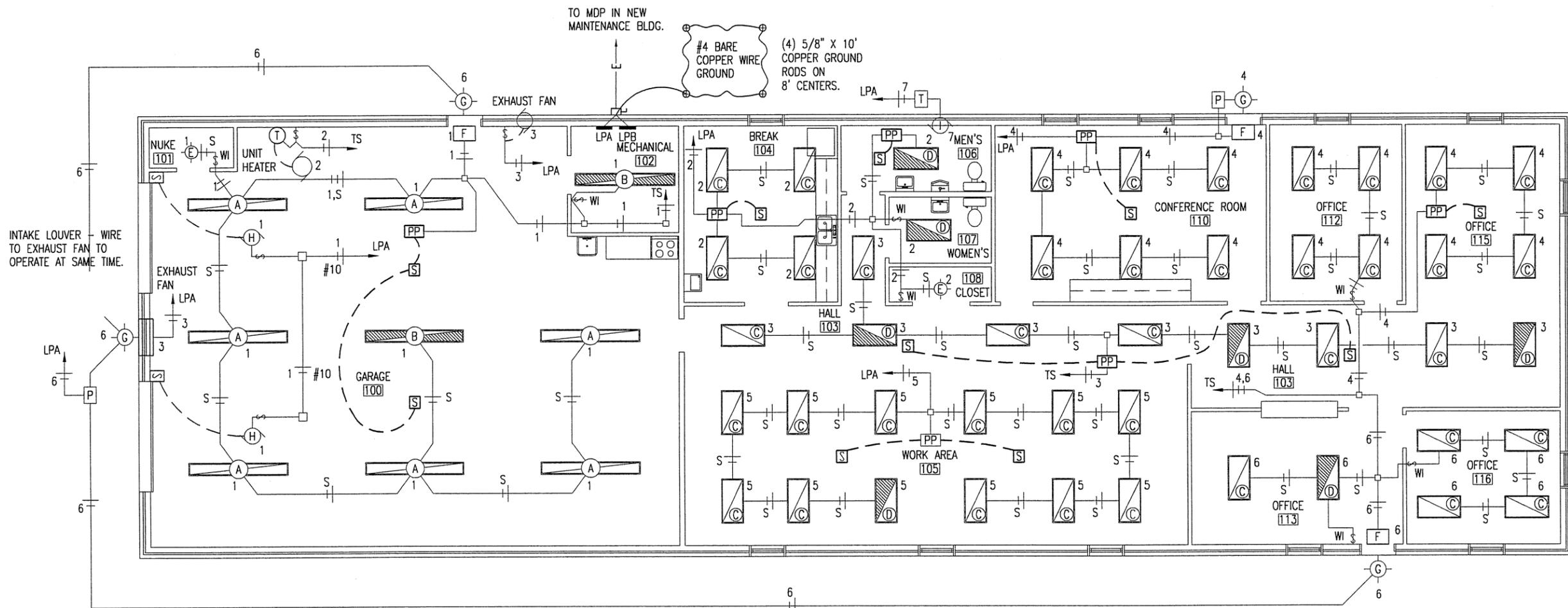
WT-2250 WIRING



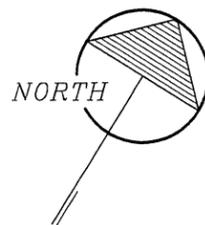
WI-200 WIRING

OCCUPANCY SENSOR SCHEDULE		
ROOM	MODEL	MOUNT
100 - GARAGE	UT-300	CEILING
101 - NUKE	WI-200	WALL
102 - MECHANICAL	WI-200	WALL
103 - HALL	WT-2250	CEILING
104 - BREAK	WI-200	WALL
105 - WORK AREA	UT-300	CEILING
106 - MEN'S	UT-300	CEILING
107 - WOMEN'S	WI-200	WALL
110 - CONFERENCE ROOM	DT-300	CEILING
112 - OFFICE	WI-200	WALL
113 - OFFICE	WI-200	WALL
115 - OFFICE	UT-300	CEILING
116 - OFFICE	WI-200	WALL

ALL MODELS BASED ON WATT STOPPER
PH: 1-800-879-8585



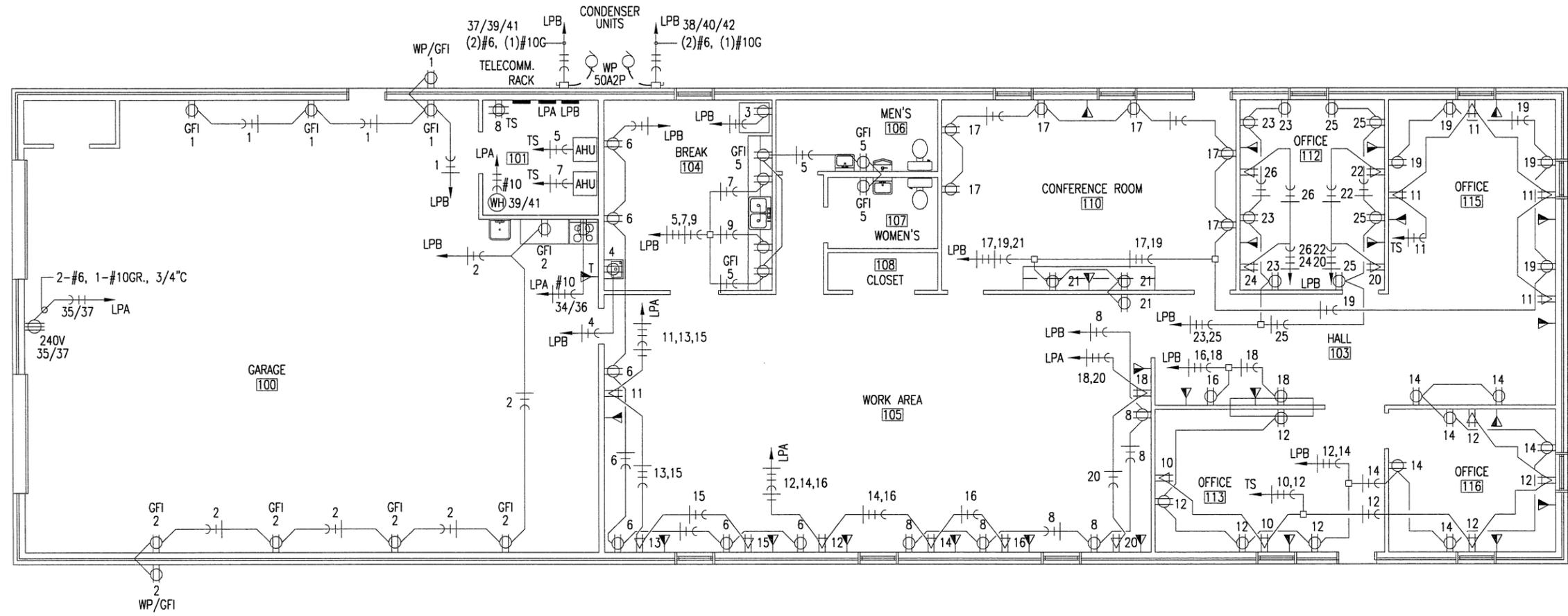
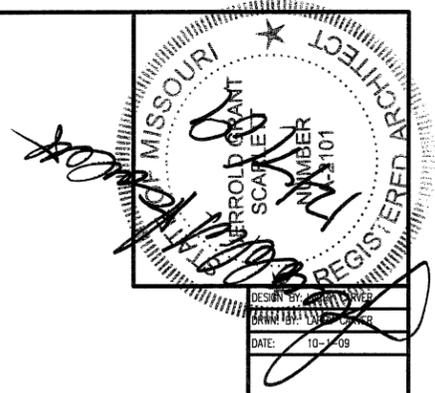
A ELECTRICAL LIGHTING PLAN
27 3/32" = 1'-0"



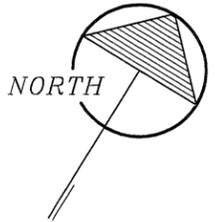
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MARSHALL, MISSOURI

MISSOURI DEPARTMENT
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DIVISION OF GENERAL SERVICES
FACILITIES MANAGEMENT

Electrical Lighting Plan



A ELECTRICAL POWER PLAN
28 3/32" = 1'-0"



TELECOMMUNICATIONS NOTES:

UNDER THIS CONTRACT MODOT REQUIRES THE FOLLOWING BE PROVIDED:
HOME RUNS, RJ11/RJ45 JACKS AND FACE PLATES, CAT. 5 JACK PANEL,
FRAMES, AND ALL OTHER ASSOCIATED WIRING AND EQUIPMENT AS REQUIRED
PER SPECIFICATION SECTION 16930 - TELECOMMUNICATIONS.

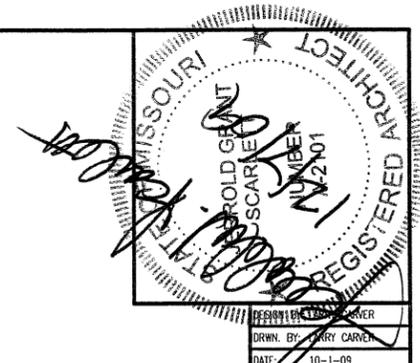
IN ROOMS 112, 115 AND 116 CONTRACTOR TO PROVIDE CONDUIT IN WALLS
TO ALL JACKS/FACE PLATES SHOWN BUT ONLY ONE HOME RUN TO EACH
ROOM. OWNER TO DETERMINE WHICH JACK WILL BE USED.

PROVIDE CONDUIT TO TELECOMMUNICATIONS RACK LOCATED IN MECHANICAL
ROOM. SEE FOUNDATION PLAN FOR DETAILS.

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ELECTRICAL POWER PLAN



SERVICE PANEL LPA									
MAIN BUS: 225A MLO VOLTS: 120/208, 3PH, 4-WIRE BUS MATERIAL: COPPER MOUNTING: SURFACE			SQUARE "D" NQOD OR EQUAL W/ NEUTRAL BUS & GROUNDING BUS CIRCUIT BREAKERS BOLT-IN 10000 AIC			CONNECTED LOAD A PHASE 13762 VA B PHASE 11991 VA C PHASE 16781 VA TOTAL 42534 VA 204 A			

CIR	SERVICE	VA	BKR		BKR	VA	SERVICE	CIR
1	100 - OHD OPENERS	2352	30A1P	A	20A1P	1080	104, 106, 107, 108 - LIGHTS	2
3	100 - EXHAUST FAN	696	20A1P	B	20A1P	1255	110, EXTERIOR - LIGHTS	4
5	105 - LIGHTS	1536	20A1P	C	30A1P	525	EXTERIOR - LIGHTS	6
7	106, 107 - RR EXHAUST	110	20A1P	A	20A1P	-	SPARE	8
9	SPARE	-	20A1P	B	20A1P	-	SPARE	10
11	105 - DEDICATED RECEPTACLE	180	20A1P	C	20A1P	180	105 - DEDICATED RECEPTACLE	12
13	105 - DEDICATED RECEPTACLE	180	20A1P	A	20A1P	180	105 - DEDICATED RECEPTACLE	14
15	105 - DEDICATED RECEPTACLE	180	20A1P	B	20A1P	180	105 - DEDICATED RECEPTACLE	16
17	105 - DEDICATED RECEPTACLE	180	20A1P	C	20A1P	180	105 - DEDICATED RECEPTACLE	18
19	109 - DEDICATED RECEPTACLE	180	20A1P	A	20A1P	180	105 - DEDICATED RECEPTACLE	20
21	109 - DEDICATED RECEPTACLE	180	20A1P	B	20A1P	-	SPARE	22
23				C				24
25				A				26
27				B				28
29				C				30
31				A				32
33				B	30A2P	2250	100 - RANGE	34
35	100 - WELDER OUTLET	4500	50A2P	C		2250		36
37		4500		A	100A 3P	5000	101 - TRANSFER SWITCH	38
39	101 - WATER HEATER	2250	30A2P	B		5000		40
41		2250		C		5000		42

▲ CIRCUIT BREAKER SHALL BE RATED FOR HID LIGHTING

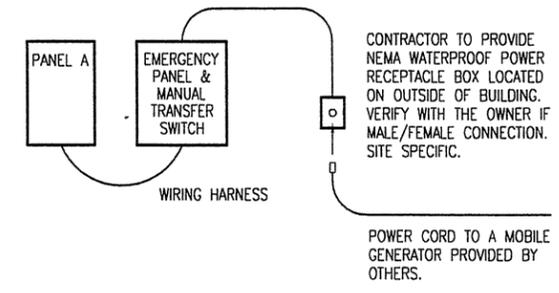
SERVICE PANEL LPB									
MAIN BUS: 225A MLO VOLTS: 120/208, 3PH, 4-WIRE BUS MATERIAL: COPPER MOUNTING: SURFACE			SQUARE "D" NQOD OR EQUAL W/ NEUTRAL BUS & GROUNDING BUS CIRCUIT BREAKERS BOLT-IN 10000 AIC			CONNECTED LOAD A PHASE 9868 VA B PHASE 8648 VA C PHASE 8428 VA TOTAL 26944 VA 130 A			

CIR	SERVICE	VA	BKR		BKR	VA	SERVICE	CIR
1	100, EXT - RECEPTACLES	720	20A1P	A	30A1P	1080	100, EXT - RECEPTACLES	2
3	104 - REFRIGERATOR	800	20A1P	B	20A1P	800	104 - DRINKING FOUNTAIN	4
5	104, 106, 107 - RECEPTACLES	720	20A1P	C	20A1P	1080	104, 105 - RECEPTACLES	6
7	104 - MICROWAVE	1500	20A1P	A	20A1P	720	105 - RECEPTACLES	8
9	104 - MICROWAVE	1500	20A1P	B	20A1P	-	SPARE	10
11	SPARE	-	20A1P	C	20A1P	720	113 - RECEPTACLES	12
13	SPARE	-	30A1P	A	20A1P	1080	103, 116 - RECEPTACLES	14
15	103, 111 - RECEPTACLE	900	30A1P	B	20A1P	960	103 - COPIER	16
17	110 - RECEPTACLE	1080	30A1P	C	20A1P	960	103 - COPIER	18
19	103, 115 - RECEPTACLES	720	20A1P	A	20A1P	180	112 - DEDICATED RECEPTACLE	20
21	103, 110 - RECEPTACLES	540	20A1P	B	20A1P	180	112 - DEDICATED RECEPTACLE	22
23	112 - RECEPTACLE	720	20A1P	C	20A1P	180	112 - DEDICATED RECEPTACLE	24
25	112 - RECEPTACLE	720	20A1P	A	20A1P	180	112 - DEDICATED RECEPTACLE	26
27				B				28
29				C				30
31				A				32
33				B				34
35				C				36
37	EXTERIOR - CONDENSER UNIT	1484		A		1484	EXTERIOR - CONDENSER UNIT	38
39		1484	30A3P	B	30A3P	1484		40
41		1484		C		1484		42

▲ CIRCUIT BREAKER SHALL BE RATED FOR HID LIGHTING

EMERGENCY PANEL									
MAIN BUS: AS REQUIRED VOLTS: 120/208, 3PH, 4-WIRE BUS MATERIAL: COPPER MOUNTING: SURFACE			SQUARE "D" NQOD OR EQUAL. PROVIDE, INSTALL AS REQUIRED FOR AN OPERATIONAL SERVICE TO A RONG 200 AMP MANUAL TRANSFER SWITCH ON OUTSIDE OF PROJECT OFFICE BUILDING.			CONNECTED LOAD A PH. 3684VA B PH. 2792VA C PH. 3434VA TOTAL 9910VA			

CIR	SERVICE	VA	BKR	CIR	BKR	VA	SERVICE	CIR
1	100, 101, 102 - LIGHTS	1320	20A1P	A	20A1P	468	100 - UNIT HEATER	2
3	103 - LIGHTS	1152	20A1P	B	20A1P	1280	112, 115 - LIGHTS	4
5	101 - AHU	1356	20A1P	C	30A1P	818	113, 115, 116 - LIGHTS	6
7	101 - AHU	1356	20A1P	A	20A1P	540	101 - TELECOM POWER	8
9	SPARE	-	20A1P	B	20A1P	360	113 - DEDICATED POWER	10
11	115 - DEDICATED POWER	720	20A1P	C	20A1P	540	116 - DEDICATED POWER	12
13				A				14
15				B				16
17				C				18
19				A				20

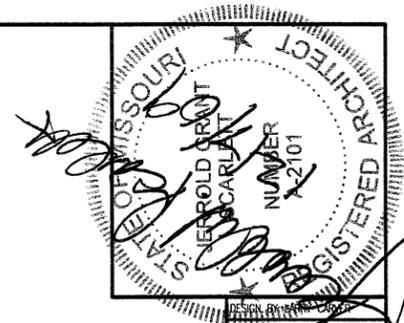


TRANSFER SWITCH INSTALLATION

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ELECTRICAL PANELS

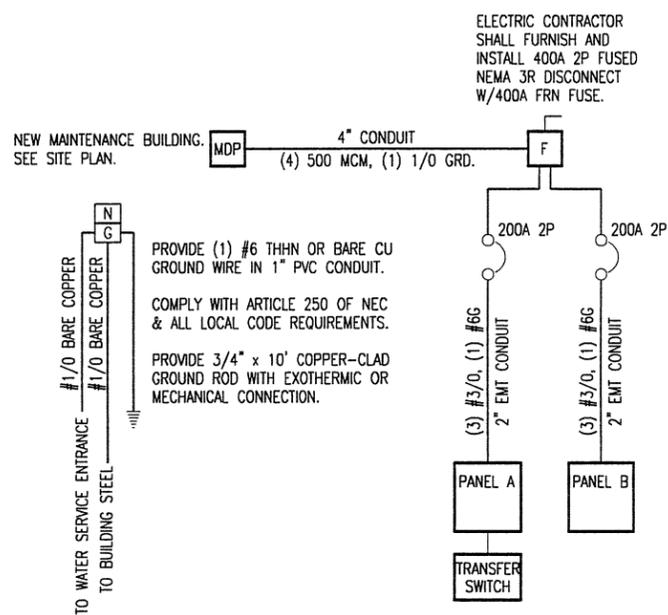


DESIGN BY: LARRY CARVER
 DRAWN BY: LARRY CARVER
 DATE: 5-12-09

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MISSOURI DEPARTMENT
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 FACILITIES MANAGEMENT

Electrical Notes & Schedules



POWER DISTRIBUTION PLAN

ELECTRIC CONTRACTOR SHALL FURNISH AND INSTALL 400A 2P FUSED NEMA 3R DISCONNECT W/400A FRN FUSE.

ELECTRIC SCHEDULE					
MANUF.	MODEL	#	LAMPS TYPE W	MNT	REMARKS
LITHONIA	T2UN 4 32 120 ES (2) WG2UN	4	FLOURESCENT 32	CLG	96" LONG SURFACE MOUNT FLUORESCENT LIGHT FIXTURE, W/ PAINTED STEEL HOUSING, ELECTRONIC BALLAST, & WIRE GUARD.
LITHONIA	T2UN 4 32 120 ES (2) WG2UN EL14	4	FLOURESCENT 32	CLG	96" LONG SURFACE MOUNT FLUORESCENT LIGHT FIXTURE, PAINTED STEEL HOUSING, ELECTRONIC BALLAST, WIRE GUARD & EMERGENCY LIGHTING.
WILLIAMS	50G-S24-432T8-RA12125-EB4-120	4	FLOURESCENT 32	CLG	24" x 48" STATIC TROFFER FIXTURE, W/ FULL DOOR FRAME, NO REVEAL, WHITE ALUMINUM, & ELECTRONIC BALLAST.
WILLIAMS	50G-S24-432T8-RA12125-EM7-EB4-120	4	FLOURESCENT 32	CLG	24" x 48" STATIC TROFFER FIXTURE, W/ FULL DOOR FRAME, NO REVEAL, WHITE ALUMINUM, ELECTRONIC BALLAST, EMERGENCY BATTERY PACK.
LITHONIA	SP9	2	INCANDESCENT 60	CLG	9" ROUND, SURFACE MOUNT, LIGHT FIXTURE. W/ GLASS DIFFUSER.
HUBBELL	SERIES PRB			CLG	PATHFINDER SERIES EXIT LIGHT W/ WHITE THERMOPLASTIC HOUSING & UNIVERSAL MOUNT.
WILLIAMS	PGM-175H-128-2	1	METAL HALIDE 175	WALL	EXTERIOR, SURFACE MOUNT LIGHT FIXTURE, W/ ALUMINUM HOUSING, & IMPACT RESISTANT ONE-PIECE, WRAP-AROUND LENS.
(H)	OVERHEAD DOOR OPERATOR			WALL	120V, 1-PH, JACK SHAFT-TYPE COMMERCIAL OVERHEAD DOOR OPERATOR. SEE SPECIFICATION SECTION 08720.
(I)	RANGE HOOD			CLG	RANGE HOOD EXHAUST FAN/LIGHT. SEE SPECIFICATION SECTION 11452.
(S)	OVERHEAD DOOR CONTROL			WALL	THREE BUTTON OVERHEAD DOOR CONTROL AS SUPPLIED BY OVERHEAD DOOR MANUF. SEE SPECIFICATION SECTION 08720.
TORK	2001			WALL	120V PHOTO ELECTRIC CONTROL OF EXTERIOR LIGHTS.
TORK	8001			WALL	120V ELECTRIC TIMER CONTROL OF EXHAUST FAN.

ELECTRICAL FIXTURES AND EQUIPMENT ARE SCHEDULED BY MANUFACTURER AND MODEL NUMBER FOR DESIGN INTENT ONLY, APPROVED EQUALS MAY BE SUBSTITUTED.

ELECTRICAL NOTES

- DRAWINGS AND DIAGRAMS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS.
- ELECTRICAL WORK SHALL BE INSTALLED IN STRICT COMPLIANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRIC CODE (N.E.C.).
- PROVIDE ELECTRICAL EQUIPMENT AND ACCESSORIES REQUIRED FOR A COMPLETE AND OPERATIONAL ELECTRICAL SYSTEM AS REQUIRED BY MANUFACTURER'S INSTRUCTIONS AND DIRECTIONS FOR SYSTEMS SPECIFIED.
- SWITCHES AND RECEPTACLES SHALL BE EQUAL TO THE AMPERE RATING SHOWN IN THE PANEL SCHEDULE. RECEPTACLES SHALL BE GROUND-FAULT INTERRUPTION TYPE WHERE SHOWN OR AS REQUIRED BY CODE.
- BATHROOM EXHAUST TO BE WIRED BY THE ELECTRICAL CONTRACTOR.
- SEE HVAC SCHEDULE FOR EQUIPMENT TO BE HARD WIRED, PROVIDE SERVICE DISCONNECT AT EACH.
- ALL RECEPTACLES IN GARAGE AREA TO BE MOUNTED AT 48" A.F.F.
- COORDINATE WORK WITH OTHER TRADES PRIOR TO COMMENCING WITH ELECTRICAL WORK.
- CONDUCTOR AND BREAKER SIZE MAY VARY PER MANUFACTURER ON THE EQUIPMENT SPECIFIED. ELECTRIC CONTRACTOR TO VERIFY SIZES WITH EXACT EQUIPMENT ORDERED PRIOR TO PURCHASING ELECTRICAL SUPPLIES.
- FIXTURE LOCATIONS ARE APPROXIMATE, EXACT LOCATIONS TO BE DETERMINED AFTER COLLABORATION WITH THE OWNER AND OTHER TRADES.

LEGEND

- § SINGLE POLE SWITCH, FLUSH MOUNTED @ 48" A.F.F.
- §³ 3-WAY SWITCH, FLUSH MOUNTED @ 48" A.F.F.
- §^{WP} SINGLE POLE SWITCH, MOUNT IN FS BOX W/ HUBBELL HBL 7420 COVER.
- Φ DUPLEX RECEPTACLE FLUSH MOUNTED @ 18" A.F.F. TO BOTTOM OF OUTLET.
- Φ^Y DEDICATED RECEPTACLE FLUSH MOUNTED IN FINISHED AREAS @ 18" A.F.F. TO BOTTOM OF OUTLET.
- Φ GFI DUPLEX RECEPTACLE W/ GROUND FAULT INTERRUPTER.
- Φ^{WP} DUPLEX RECEPTACLE MOUNTED IN FS BOX WITH HUBBELL HBL5221 COVER.
- Φ WELDER RECEPTACLE SURFACE MOUNTED 42" A.F.F., MOUNT IN 4" SQUARE BOX WITH COVER.
- ∇ VOICE/DATA OUTLET FLUSH MOUNTED @ 18" A.F.F. TO BOTTOM OF OUTLET.
- ∇^v VOICE OUTLET FLUSH MOUNTED @ 48" A.F.F. TO BOTTOM OF OUTLET.
- NO FUSED DISCONNECT SWITCH.
- ^F FUSED DISCONNECT SWITCH.
- JUNCTION BOX, SIZE FOR WIRE, FILL ACCORDING TO ARTICLE 314-16 OF THE N.E.C.

