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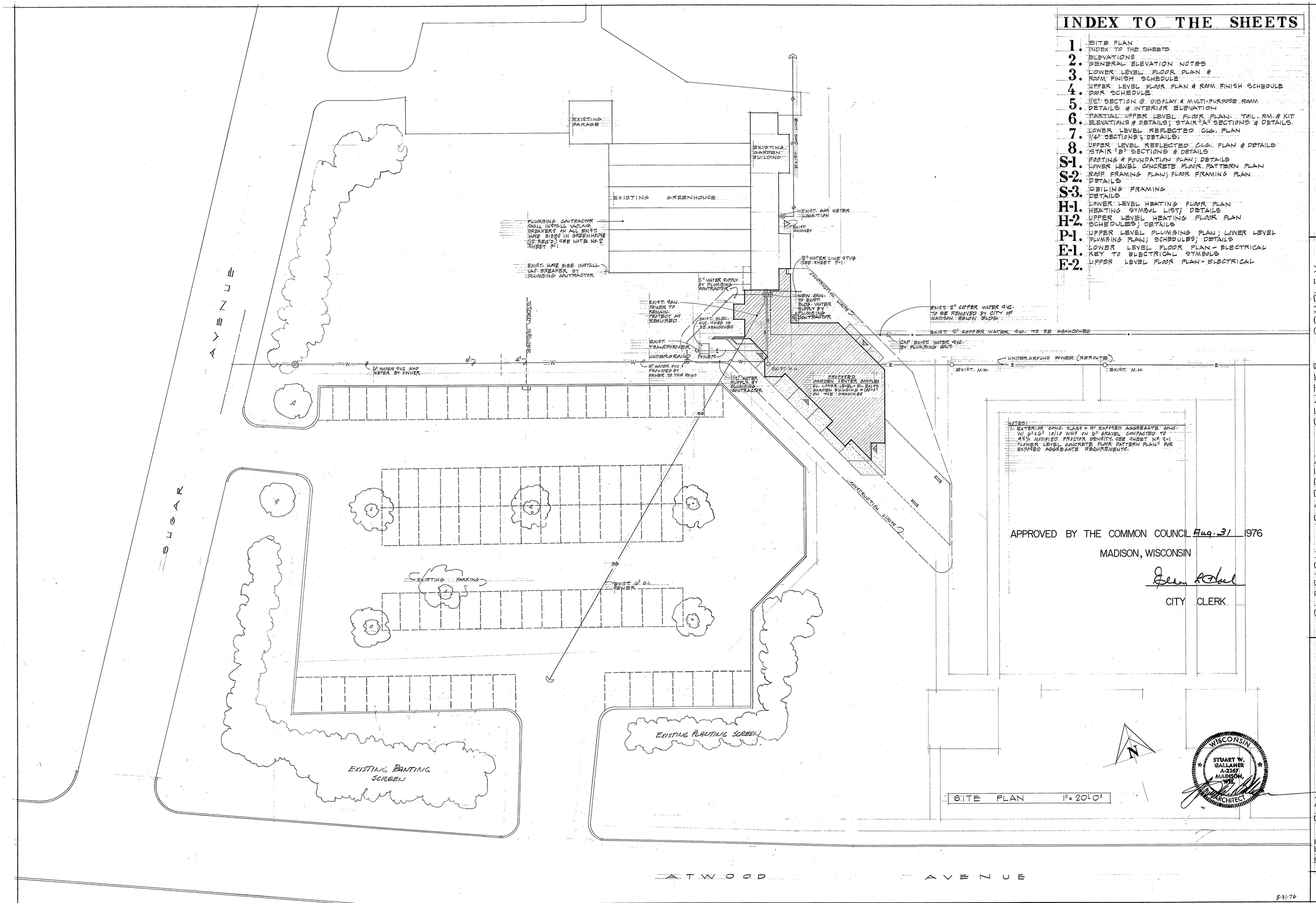


APPROVED BY THE COMMON COUNCIL Aug. 31 1976

MADISON, WISCONSIN

CITY CLERK

SITE PLAN 1" = 20'-0"

WISCONSIN STUART W. GALLAHER A-2267 MADISON, WIS. ARCHITECT

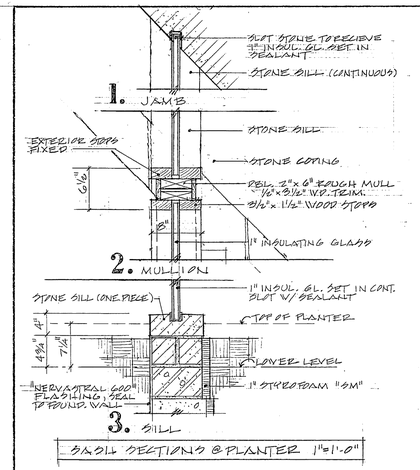
8-31-76

STUART WILLIAM GALLAHER, ARCHITECT, INC.
702 NORTH BLACKHAWK AVENUE • MADISON, WISCONSIN

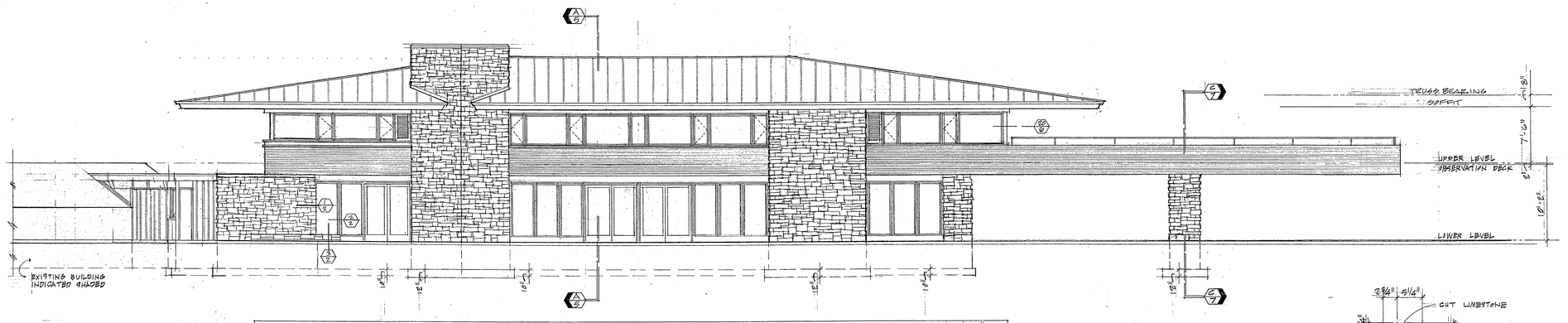
OLBRICH GARDEN CENTER COMPLEX
MADISON BOARD OF PARK COMMISSIONERS • MADISON • WISCONSIN

SITE PLAN
INDEX TO THE SHEETS

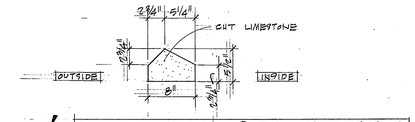
1.



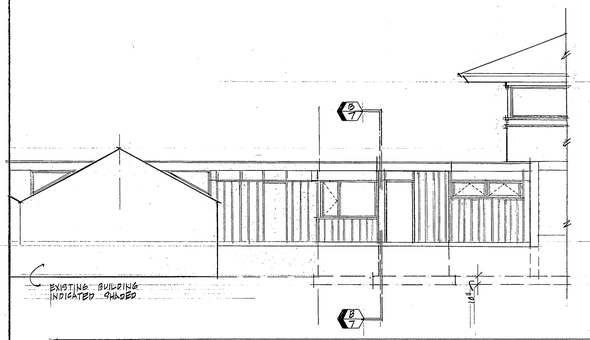
SASH SECTIONS @ PLANTER 1"=1'-0"



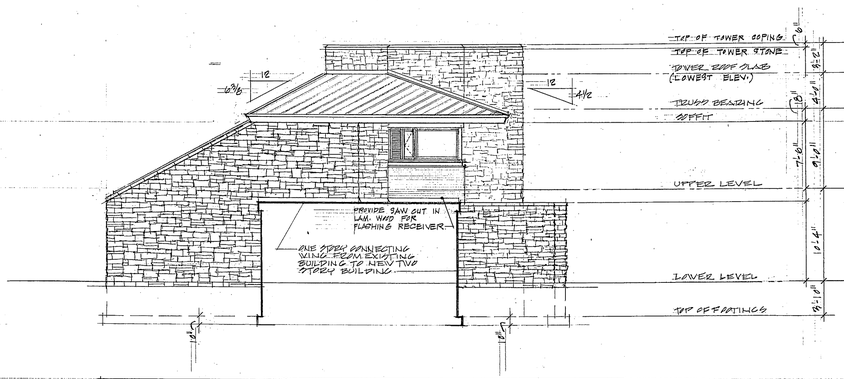
SOUTHWEST ELEVATION 1/8"=1'-0"



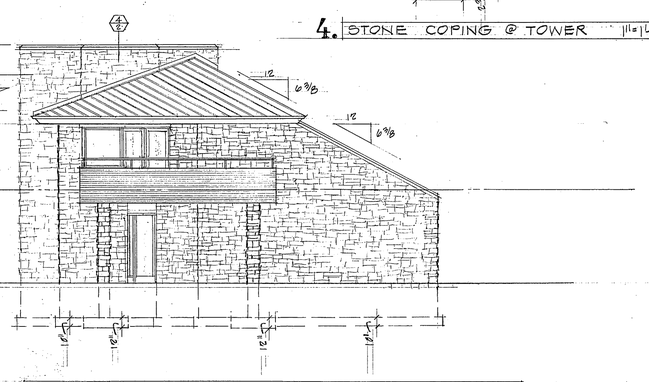
4. STONE COPING @ TOWER 1"=1'-0"



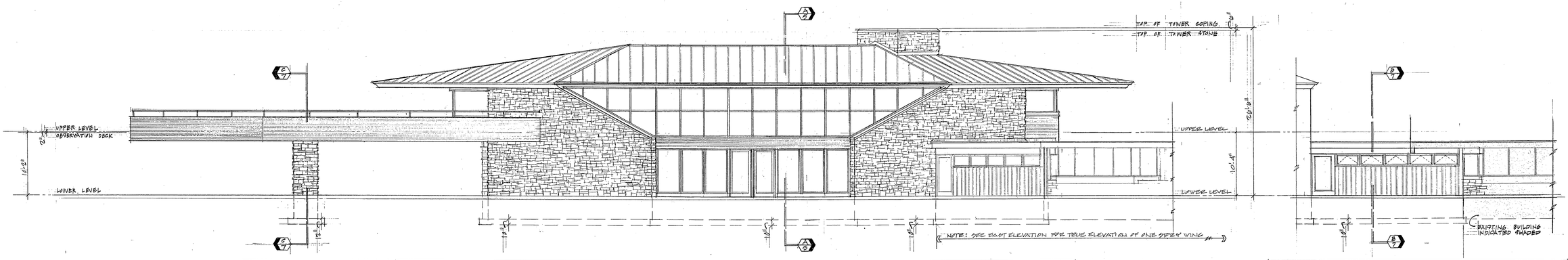
WEST ELEVATION @ DIRECTOR'S OFFICE 1/8"=1'-0"



NORTHWEST ELEVATION 1/8"=1'-0"



SOUTHEAST ELEVATION 1/8"=1'-0"



NORTHEAST ELEVATION 1/8"=1'-0"

EAST ELEVATION @ DOR GALLERY 1/8"=1'-0"

GENERAL ELEVATION NOTES

MASONRY WALLS AND COPINGS: BLACK EARTH QUARRY LIMESTONE; BLACK EARTH, WISCONSIN; OR EQUAL APPROVED BY THE ARCHITECT.
ELEVATOR TOWER COPING: CUT LIMESTONE OF DIMENSION AND SHAPE INDICATED ON THE DRAWINGS.
UPPER LEVEL WALLS: LAMINATED WOOD BEAMS (TREATED W/ "CELLON" @ 5.6 P.C.R. RETENTION PRIOR TO LAMINATION). STAIN W/ HYDROID STAIN MIX AFTER INSTALLATION. (1 ST. H.D. HYDROID TO 1 GAL. OLYMPIC "STAIN") COLOR SELECTION BY THE ARCHITECT.
ONE STORY ADDITION WALLS: 1/2" REDWOOD PLYWOOD W/ 5/4" X 1 1/4" REDWOOD BATTS TO MATCH EXISTING BUILDING. STAIN WITH 2 COATS OF OLYMPIC STAIN TO MATCH EXIST. BLDG.
LOWER LEVEL SASH:
DISPLAY AREA & ENTRY: 1" INSULATING, TEMPERED SAFETY GLASS (OUTSIDE GL. = SOLARGRAY; INSIDE GL. = 1/4" CLEAR) GLASS & FRAMES SEE DTLS.
ONE STORY ADDITION: FIBLA CLAD CASEMENT & AWNINGS W/ SOLARGRAY INSULATING GLAZING - 1/2" @ VENTS & 5/8" @ FIXED. SEE PLAN AND DETAILS FOR SIZES.
UPPER LEVEL SASH: FIBLA CLAD CASEMENTS W/ INSULATING GLAZING - 1/2" @ VENTS & 5/8" @ FIXED. SOLARGRAY @ EXTERIOR SASH & CLEAR @ INTERIOR SASH
SKYLIGHT: GLAZING = 1/4" SOLARGRAY, 1/2" AIRSPACE, AND 2 LAYERS 1/4" CLEAR GLASS LAMINATED TOGETHER W/ 2.28" CLEAR VINYL INTERLAYER. SET IN ANODIZED ALUMINUM GLAZING SECTIONS. PER DETAILS. ALUMINUM COLOR SELECTION BY ARCHITECT.
ROOFING:
UPPER LEVEL: 24" WIDE REVERE PANEL TEMPER COPPER LAMINATED TO 3/4" A.C. PLYWOOD & ALUMINUM BACKSHEET STANDING SEAM ROOF W/ ALL REQUIRED COPPER JOININGS, RECEIVERS, AND FLASHINGS.
ELEVATOR TOWER AND ONE STORY ROOF: 3 PLY BUILT-UP ASPHALT ROOF W/ GRAVEL SURFACE
FLASHING: COPPER SHEET PER WEIGHTS NOTED ON THE DETAILS.
FASCIA: COPPER AND DOUGLAS FIR AS DETAILED. SEE 7/8, AND REDWOOD W/ STAIN @ ONE STORY ADDITION. SEE DET. 2/7.
SOFFITS: 9 1/2" x 9/16" ROUGH CEDAR BOARDS W/ 3/4" SPACES ON 1/2" A-C, EXT. GRADE PLYWOOD PREPAINTED DARK BROWN - SEE DETAILS.
OBSERVATION DECK: 2"x 6" DOUGLAS FIR, ROUGH W/ V-JOINT SIDE DOWN; PRESSURE TREATED W/ AW PA-P9- TYPE C SOLVENT, 1.5 P.C.R. RETENTION
DECK RAILINGS: 1 1/2" SQ. STEEL TUBING SHOP FABRICATED AND PRIMED W/ RUST-INHIBITIVE PRIMER. PAINT W/ 2 CTS. EXTERIOR FLAT ENAMEL.
CAULKING & WEATHER STRIPPING: SEE SPECIFICATIONS.
SPECIAL NOTE: ALL COLOR SELECTIONS SHALL BE MADE BY THE ARCHITECT.

8-21-76

STUART WILLIAM GALLAHER, ARCHITECT, INC.
702 NORTH BLACKHAWK AVENUE • MADISON, WISCONSIN

OLBRICH GARDEN CENTER COMPLEX
MADISON BOARD OF PARK COMMISSIONERS • MADISON • WISCONSIN

ELEVATIONS & GENERAL ELEVATION NOTES

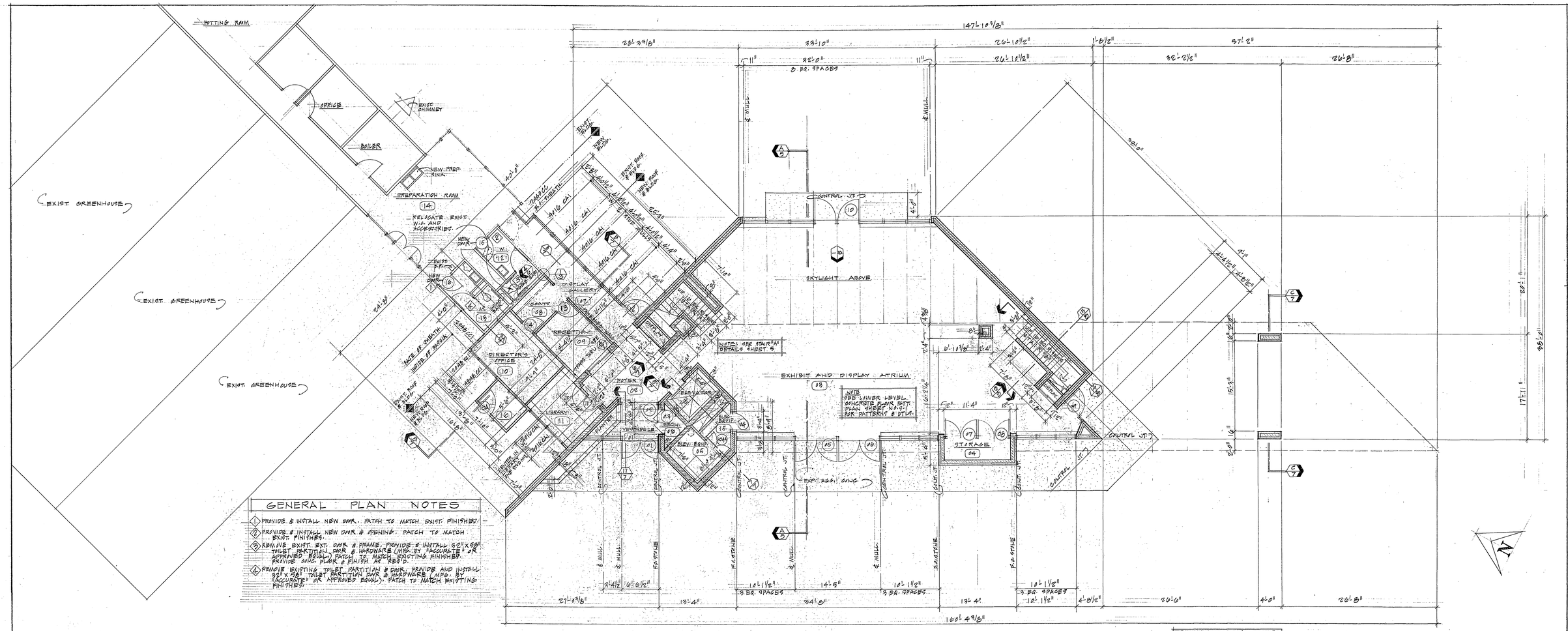
2.

STUART WILLIAM GALLAHER, ARCHITECT, INC.
702 NORTH BLACKHAWK AVENUE • MADISON, WISCONSIN

OLBRICH GARDEN CENTER COMPLEX

MADISON BOARD OF PARK COMMISSIONERS • MADISON • WISCONSIN

LOWER LEVEL FLOOR PLAN & ROOM FINISH SCHEDULE



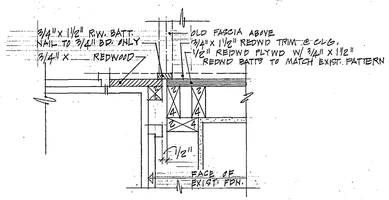
GENERAL PLAN NOTES

1. PROVIDE & INSTALL NEW DWR. PATCH TO MATCH EXIST. FINISHES.
2. PROVIDE & INSTALL NEW DWR & OPENING. PATCH TO MATCH EXIST. FINISHES.
3. REMOVE EXIST. EXT. DWR & FRAME. PROVIDE & INSTALL 8'0" X 6'8" TOILET PARTITION DWR & HARDWARE (MFR. BY "ACCURATE" OR APPROVED EQUAL) PATCH TO MATCH EXISTING FINISHES. PROVIDE CONC. FLOOR & FINISH AS REQ'D.
4. REMOVE EXISTING TOILET PARTITION & DWR. PROVIDE AND INSTALL 32" X 78" TOILET PARTITION DWR & HARDWARE (MFR. BY "ACCURATE" OR APPROVED EQUAL). PATCH TO MATCH EXISTING FINISHES.

LOWER LEVEL FLOOR PLAN

1/8" = 1'-0"

PLAN INDICATIONS
: STONE
: CONC. BLOCK
: WOOD STUD



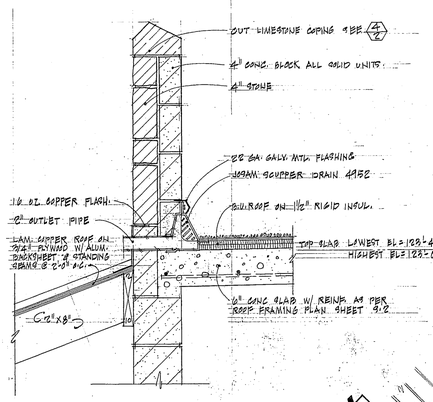
1. DTL. @ NEW TO OLD CONST. 1 1/2" = 1'-0"

LOWER LEVEL ROOM FINISH SCHEDULE

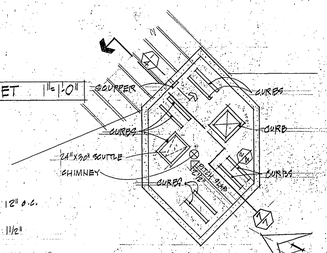
ROOM NO.	ROOM NAME	FLOORS MATERIAL	FLOORS BASE	WALLS MATERIAL	WALLS FINISH	CEILINGS MATERIAL	CEILINGS HT.	TRIM MAT.	TRIM FINISH	REMARKS
01	VESTIBULE	EXPOSED AGG. CONC. HARDEN & SEAL ⚠1 NOTE: MAT RECESS		STONE	STONE	STRUC. WD. DECK W/ LAM. PURLINS, STAINED ROUGH CEDAR BATTS STAINED ON PTD. PLYWD. ⚠2	VARIES	FIR	PAINT	⚠1 SEE LOWER LEVEL CONCRETE FLOOR PATTERN PLAN SHEET NO. S-1 FOR CONC. PATTERNS & DETAILS.
02	FOYER	EXPOSED AGG. CONC. HARDEN & SEAL ⚠1		STONE	STONE	STRUC. WD. DECK W/ LAM. PURLINS, STAINED ROUGH CEDAR BATTS STAINED ON PTD. PLYWD. ⚠2	VARIES	FIR	PAINT	
03	EXHIBIT AND DISPLAY ATRIUM	EXPOSED AGG. CONC. HARDEN & SEAL ⚠1		STONE	STONE	STRUC. WD. DECK W/ LAM. PURLINS ⚠2 STAIN	10'-6"	FIR	PAINT	⚠2 PATTERN WP AGE 3/4" X 3 1/2" MITRE ALL CORNERS.
04	STORAGE	CONC. HARDEN & SEAL		CONC. BLOCK	PAINT - SEE SPECS.	STRUC. WD. DECK W/ LAM. PURLINS ⚠2 STAIN	10'-6"	FIR	PAINT	
05	ELEVATOR EQUIP.	CONC. HARDEN & SEAL		CONC. BLOCK	PAINT - SEE SPECS.	CONC.	7'-0"	STL.	PAINT	⚠3 SEE REFLECTED CLG. PLAN ON SHEET NO. 7.
06	MECHANICAL	CONC. HARDEN & SEAL		CONC. BLOCK	PAINT - SEE SPECS.	CONC.	9'-1 8"	STL.	PAINT	
07	DISPLAY GALLERY	EXPOSED AGG. CONC. HARDEN & SEAL ⚠1	REDWOOD ⚠3 STAIN	11/2" GYP. BD. ON W.D. STUDS W/ 1/2" REDWD. PLYWD. W/ 3/4" X 11/2" REDWD BATTS	TEXTURE & PAINT - SEE SPECS. ⚠5 STAIN - SEE SPECS.	ACOUST. TILE ON JST. CLIPS ⚠3	7'-8 1/2"	REDWOOD	STAIN	⚠4 ALTERNATE: CARPET. SEE SPECS.
08	COATS	CONC. HARDEN & SEAL ⚠4	OAK STAIN	1/2" GYP. BD. ON W.D. STUDS	TEXT. & PAINT - SEE SPECS. ⚠5	ACOUST. TILE ON JST. CLIPS	7'-8 1/2"	OAK	STAIN	⚠5 ALTERNATE: VINYL FABRIC ON GYP. BD. - SEE SPECS.
09	RECEPTION	CONC. HARDEN & SEAL ⚠4	OAK STAIN	1/2" GYP. BD. ON W.D. STUDS	TEXT. & PAINT - SEE SPECS. ⚠5	ACOUST. TILE ON JST. CLIPS	7'-8 1/2"	OAK	STAIN	
10	DIRECTOR'S OFFICE	CONC. HARDEN & SEAL ⚠4	OAK STAIN	1/2" GYP. BD. ON W.D. STUDS	TEXT. & PAINT - SEE SPECS. ⚠5	ACOUST. TILE ON JST. CLIPS	7'-8 1/2"	OAK	STAIN	
11	LIBRARY	CONC. HARDEN & SEAL ⚠4	OAK ⚠4 STAIN	1/2" GYP. BD. ON W.D. STUDS	TEXT. & PAINT - SEE SPECS. ⚠5	ACOUST. TILE ON JST. CLIPS	7'-8 1/2"	OAK	STAIN	
12	WOMEN	EXISTING	EXISTING	EXISTING	PAINT REMODELLED SURFACES TO MATCH EXISTING.	PAINT REMODELLED SURFACES TO MATCH EXISTING	EXISTING 7'-8 1/2"	MATCH EXISTING	MATCH EXIST.	
13	MEN	EXISTING	EXISTING	EXISTING	PAINT REMODELLED SURFACES TO MATCH EXISTING.	PAINT REMODELLED SURFACES TO MATCH EXISTING	EXISTING 7'-8 1/2"	MATCH EXISTING	MATCH EXIST.	
14	PREPARATION ROOM	EXISTING	EXISTING	EXISTING	PAINT REMODELLED SURFACES TO MATCH EXISTING.	PAINT REMODELLED SURFACES TO MATCH EXISTING	EXISTING 7'-8 1/2"	MATCH EXISTING	MATCH EXIST.	
	STAIR "A"	CONC. HARDEN & SEAL		STONE	STONE	STRUC. WD. DECK W/ LAM. PURLINS. STAIN - SEE SPECS & DETAILS	VARIES	WOOD SEE DET.	STAIN	
	STAIR "B"	CONC. HARDEN & SEAL		STONE	STONE	STRUC. WD. DECK W/ LAM. PURLINS STAIN - SEE SPECS & DETAILS.	VARIES	WOOD SEE DET.	STAIN	
15	ELECTRICAL EQUIP.	CONC. HARDEN & SEAL		CONC. BLOCK	PAINT - SEE SPECS.	CONC.	9'-1 8"	STL.	PAINT	
16	ELECTRICAL SERVICE	CONC. HARDEN & SEAL		1/2" GYP. BD. ON W.D. STUDS 1/2" A.D. PLYWOOD	1 CT. LATEX PRIMER 1 CT. FLAT LATEX	1/2" A.D. PLYWOOD PAINT - SEE WALL FINISH.	7'-8 1/2"	FIR	PAINT	

NOTE: ALL COLOR SELECTIONS SHALL BE BY THE ARCHITECT.

3-31-76

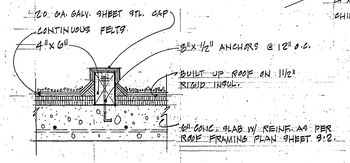


1. DTL. OF SCUPPER @ PARAPET 1"=1'-0"

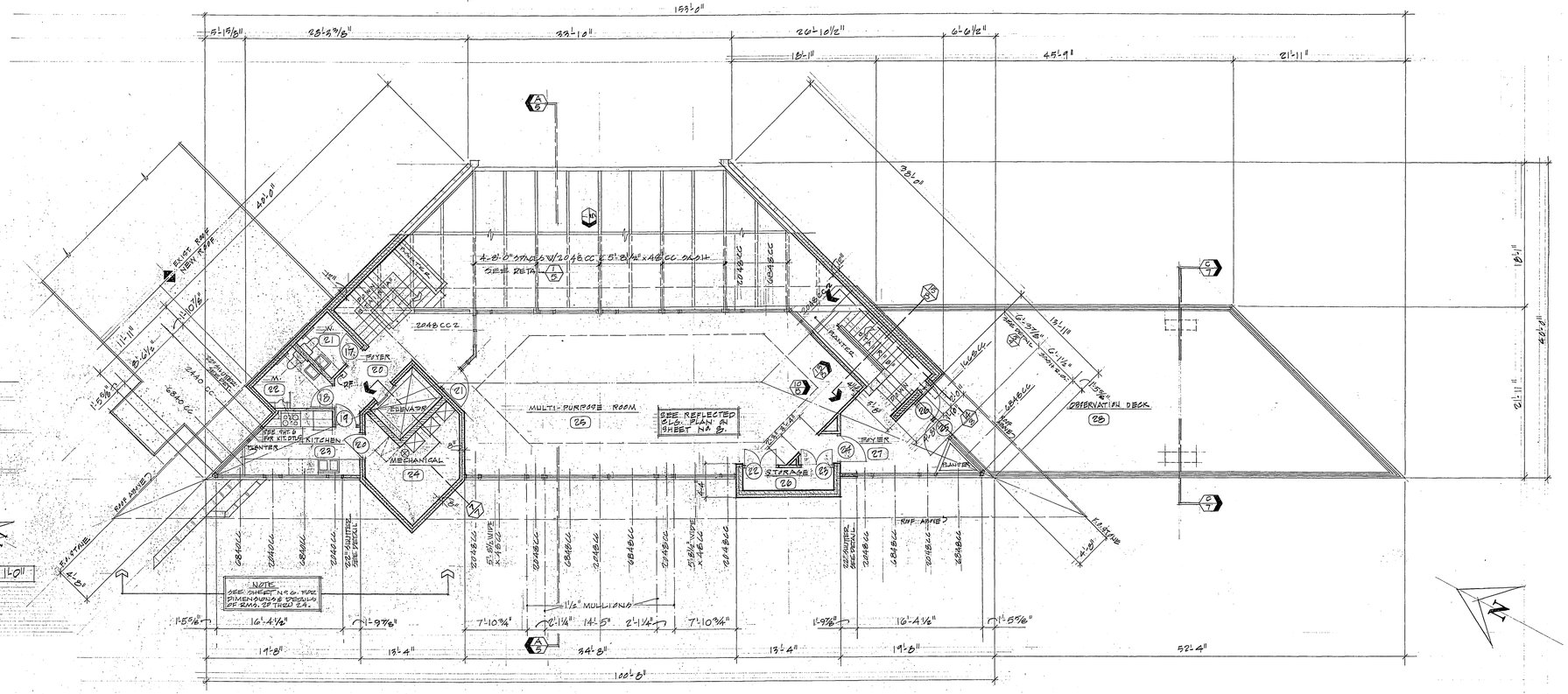


TOWER ROOF PLAN 1/8"=1'-0"

NOTE:
GENERAL CONTRACTOR SHALL VERIFY LOCATIONS & HEIGHTS OF ROOF CURBS W/ HEATING CONTRACTOR & ALL SLAB OPENINGS REQ'D BY OTHER CONTRACTORS.



2. TYP. ROOF CURB 1"=1'-0"

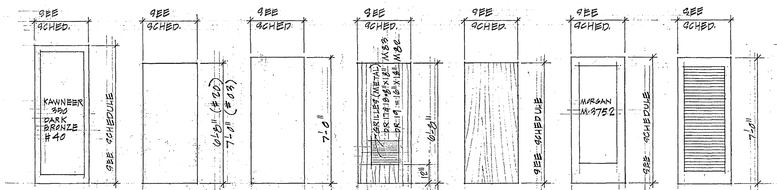


UPPER LEVEL FLOOR PLAN 1/8"=1'-0"

PLAN INDICATING
: STONE
: CONC. BLOCK
: WOOD STUD

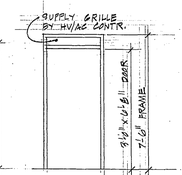
DOOR SCHEDULE

	DOOR NO.	SIZE	TYPE	FRAME	DETAIL NUMBER	HARDWARE SET	REMARKS
LOWER LEVEL	01	PR. 3'-0" x 7'-8" x 1 3/4"	A	WD.	18/2	7.	⚠ REVISE TRANSOM W/ INSUL. GL. ABOVE SEE DETAIL 25 SECTION AA
	02	PR. 2'-8" x 7'-4" x 1 3/4"	A	WD.	3/2	7.	
	03	PR. 2'-8" x 7'-0" x 1 3/4"	B	STL.	4/2	3.	
	04	3'-0" x 7'-0" x 1 3/4"	G	STL.	4/2	1.	
	05 06	PR. 3'-4" x 7'-8" x 1 3/4"	A	WD.	18/2 ⚠	7.	
	07 08	PR. 2'-8" x 7'-6" x 1 3/4"	B	WD.	3/2	8.	
	09	3'-8" x 7'-8" x 1 3/4"	A	WD.	18/2 ⚠	5.	
	10	PR. 3'-6" x 7'-8" x 1 3/4"	A	WD.	18/2	5.	
	11 13 14	2'-6" x 6'-8" x 1 3/4"	D	WD.	3/2	1.	
	12	3'-4" x 6'-8" x 1 3/4"	P	WD.	DIM. 3/2	2.	
	15 16	2'-8" x 6'-8" x 1 3/4"	D	WD.	3/2	8.	
	04A	PR. 2'-0" x 7'-0" x 1 3/4"	C	STL.	4/2	4.	
	16A	3'-0" x 6'-8" x 1 3/4"	D	WD	3/2 DIM.	10.	
UPPER LEVEL	17 18 19	2'-8" x 6'-8" x 1 3/4"	D	WD	3/2	17 18 19 - 5.	
	20	3'-0" x 6'-8" x 1 3/4"	B	STL.	4/2	9.	
	21 24	3'-4" x 6'-8" x 1 3/4"	D	WD.	3/2	1.	
	22 23	PR. 2'-6" x 6'-8" x 1 3/4"	E	WD.	3/2	6.	
	25 26	2'-8" x 7'-0" x 1 3/4"	F	WD.	5/2	2.	



1¾" AL. W/ TEMP. INSUL. SAFETY GL. (A)
1¾" HOLLOW MTL. FLUSH. "A" LABEL DOOR & FRAME (B)
1¾" HOLLOW MTL. FLUSH. "B" LABEL DOOR & FRAME (C)
1¾" SOLID CORE WD. FLUSH MARGAN BIRCH (PRC 11, 13, 14 GAR.) (D)
1¾" HOLLOW CORE WD. FLUSH BIRCH (E)
1¾" WD. W/ TEMP. INSUL. SAFETY GL. (F)
1¾" MTL. W/ FULL MTL. LOUVER (G)

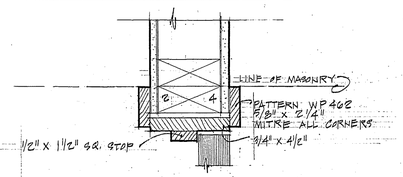
DOOR TYPES



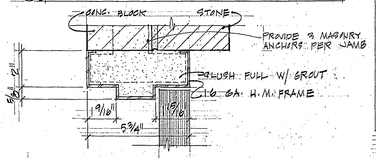
DOOR FRAMES

UPPER LEVEL ROOM FINISH SCHEDULE

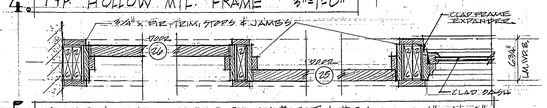
ROOM NO.	ROOM NAME	FLOORS MATERIAL	FLOORS BASE	WALLS MATERIAL	WALLS FINISH	CEILINGS MATERIAL	CEILINGS HT.	TRIM MAT.	TRIM FINISH	REMARKS
20	FOYER	1/2" PLYWD. SUBFLOOR ON 1½" STYROFOAM TYPE I "C" ⚠	RK & SYP. BD ONLY STAIN ⚠	STONE; 1/2" GYP. BD ON WD. STUDS; LAM. WOOD	GYP. BD. - TEXTURE & PAINT WAND - STAIN (SEE SPECS) ⚠	WOOD - STAIN (SEE SPECS) ⚠	7'-6"	FIR	STAIN	⚠ ALTERNATE: CARPET - SEE SPECS.
21	WOMEN	CERAMIC MOSAIC TILE ON 1½" CEMENT ⚠ MORTAR & WATERPROOF MEMBRANE, SEE ⚠	6" CERAMIC	CONC. BLOCK; 1/2" GYP. BD. ON WD. STUDS	PAINT - SEE SPECS. ⚠	1/2" GYP. BD. PAINT - SEE SPECS.	7'-6"	FIR	STAIN	⚠ PATTERN WP 402 3/4" x 3 1/2" MITRE ALL CORNERS.
22	MEN	CERAMIC MOSAIC TILE ON 1½" CEMENT ⚠ MORTAR & WATERPROOF MEMBRANE, SEE ⚠	6" CERAMIC	CONC. BLOCK; 1/2" GYP. BD. ON WD. STUDS	PAINT - SEE SPECS. ⚠	1/2" GYP. BD. PAINT - SEE SPECS.	7'-6"	FIR	STAIN	
23	KITCHEN	SHEET VINYL ON 1/2" PLYWD. SUBFLOOR ON 1½" STYROFOAM TYPE I "C" ⚠	4" VINYL COVE	LAM. WOOD; 1/2" GYP. BD. ON WD. STUDS	GYP. BD. - TEXTURE & PAINT WAD - STAIN (SEE SPECS) ⚠	WOOD - STAIN (SEE SPECS) ⚠	7'-6"	FIR	STAIN	⚠ ALTERNATE: VINYL FABRIC ON GYPSUM BD & CONC. BLOCK - SEE SPECS.
24	MECHANICAL	CONC. HARDEN & SEAL		CONC. BLOCK.	PAINT - SEE SPECS.	EXPOSED CONCRETE	7'-6"	STL.	PAINT	
25	MULTI-PURPOSE ROOM	1/2" PLYWD SUBFLR. ON 1½" STYROFOAM TYPE I "C" ⚠	FIR ⚠ STAIN	STONE; LAM. WOOD; 1/2" GYP. BD. ON WD. STUDS; WOOD PANELS	GYP. BD. - TEXTURE & PAINT WAD - STAIN (SEE SPECS) ⚠	ACOUST. TILE WOOD - STAIN (SEE SPECS) ⚠	VARIES	FIR	STAIN	
26	STORAGE	VINYL ABS. TILE ON 1/2" PLYWD SUB FLR. ON 1½" STYROFOAM TYPE I "C" ⚠	FIR STAIN	CONC. BLOCK; 1/2" GYP. BD ON WD. STUDS.	GYP. BD. - TEXTURE & PAINT (SEE SPECS) ⚠	GYP. BD. - TEXTURE & PAINT (SEE SPECS) ⚠	7'-6"	FIR	STAIN	
27	FOYER	1/2" PLYWD. SUBFLR. ON 1½" STYROFOAM TYPE I "C" ⚠	FIR STAIN	STONE; LAM. WD. 1/2" GYP. BD. ON WD. STUDS.	GYP. BD. - TEXTURE & PAINT WAD - STAIN (SEE SPECS) ⚠	WOOD - STAIN (SEE SPECS) ⚠	7'-6"	FIR	STAIN	
28	OBSERVATION DECK	STRUC. WOOD DECK - FINISH W/ HYDRIS II SPECIAL LIGHT		LAMINATED WOOD	STAIN - SEE SPECS.					



3. TYP. WOOD DOOR FRAME 3"=1'-0"



4. TYP. HOLLOW MTL. FRAME 3"=1'-0"



5. JAMB & MULLIONS @ DOORS # 25 & #26 1"=1'-0"

HARDWARE SCHEDULE

SET NO.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.
BUTTS	1½ PR. 4½ x 4½ FIM US10B	1½ PR. 4½ x 4½ FBB191 1B	8 PR. 4½ SPRING HINGES. 2050-10B	8 PR. 4½ x 4½ FIM 10B	2 PR/DOOR BY DWR MANUF.	8 PR. 4½ x 4½ FIM 10B	2 PR/DOOR BY DWR MANUF.	1½ PR. 4½ x 4½ FIM 10B	1½ PR. 4½ x 4½ FBB17A 10B	1½ PR. 4½ x 4½ FIM 10B
LOCKSET	1 EA. A53PD TUL. 10B X 11-951 CYL. LOCK X 10-025	1 EA. D51PD TUL. 10B CYL. LOCK	1 EA. A53PD TUL. 10B X 11-951 CYL. LOCK X 10-025	1 EA. A53PD TUL. 10B X 11-951 CYL. LOCK	1 EA. 8265-10B WRT. CYL.; 1 EA. 8267-10B TURN KNOB		1 EA. MORT. CYL. #100 - 10B	1 EA. A453 TUL. 10B PRIVACY LOCK X 11-951	1 EA. A53PD TUL. 10B CYL. LOCK X 11-951 X 10-025	1 EA. A53PD TUL. 10B X 11-951 X 10-025
CLOSER		1 EA. U7750 CLO. X 7750 BRACKET			1 EA. J1600 CLO. X BRACKET		2 EA. J1600 CLO. X BRACKET		1 EA. P1600	
STOPS	1 EA. WALL WB5AX-10B	1 EA. WALL WB80X-10B				2 EA. 5450-10B 12" FLUSH. 1 EA. 8266P 10B FLUSH		1 EA. WALL WB40X-10B		
BOLTS			SET 1040-10B AUTO. FLUSH. 1 EA. 1838-10B CORD. DEVICE	2 EA. FLUSH 5450-10B 10B						
PULL/PUSH					2 PR. PULL, 14" PUSH, #40 BY KAWNEER	2 EA. PULL 8308 US10B	2 PR. PULL, 14" PUSH, #40 BY KAWNEER			
SWEEP		1 EA. A8828N								1 EA. 8828N
THRESHOLD		1 EA. 8204 ALUM.			BY DOOR MANUF.		BY DOOR MANUF.			1 EA. 8204 ALUM.
REMARKS										

TOILET ACCESSORIES
5 ONLY. #713 - 24" GRAB BARS
2 ONLY. 8248 - 24"X24" FRAMED MIRRORS
2 ONLY. #754 - PAPER HOLDERS

B:31:76

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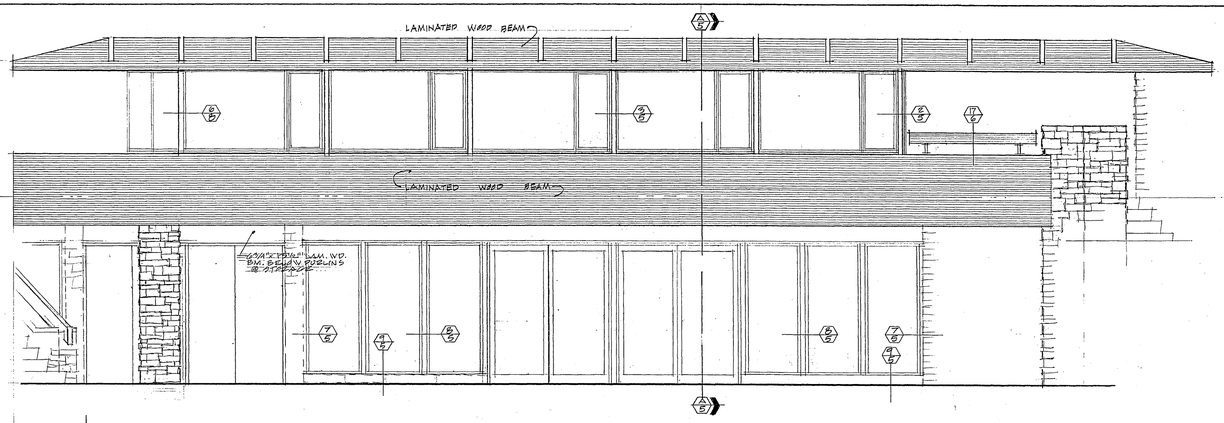
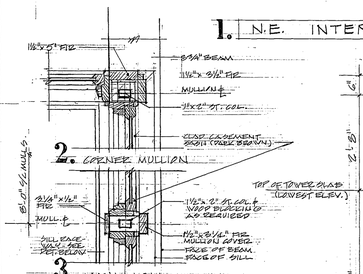
UPPER LEVEL FLOOR PLAN & ROOM FINISH SCHEDULE; DOOR SCHEDULE

4.



1. N.E. INTERIOR ELEVATION 1/4" = 1'-0"

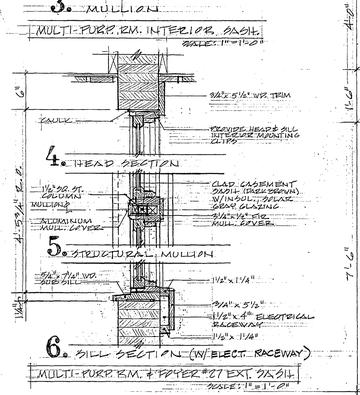


2. CORNER MULLION

3. MULLION

MULTI-PURP. RM. INTERIOR SASH

SCALE: 1" = 1'-0"



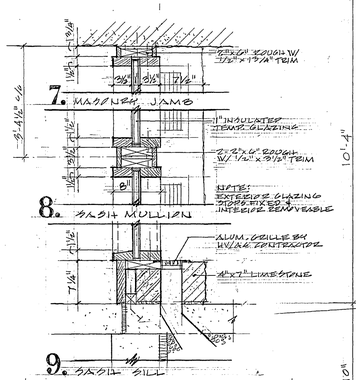
4. HEAD SECTION

5. STRUCTURAL MULLION

6. SILL SECTION (W/ ELECT. RACEWAY)

MULTI-PURP. RM. & OFFICE #27 EXT. SASH

SCALE: 1" = 1'-0"



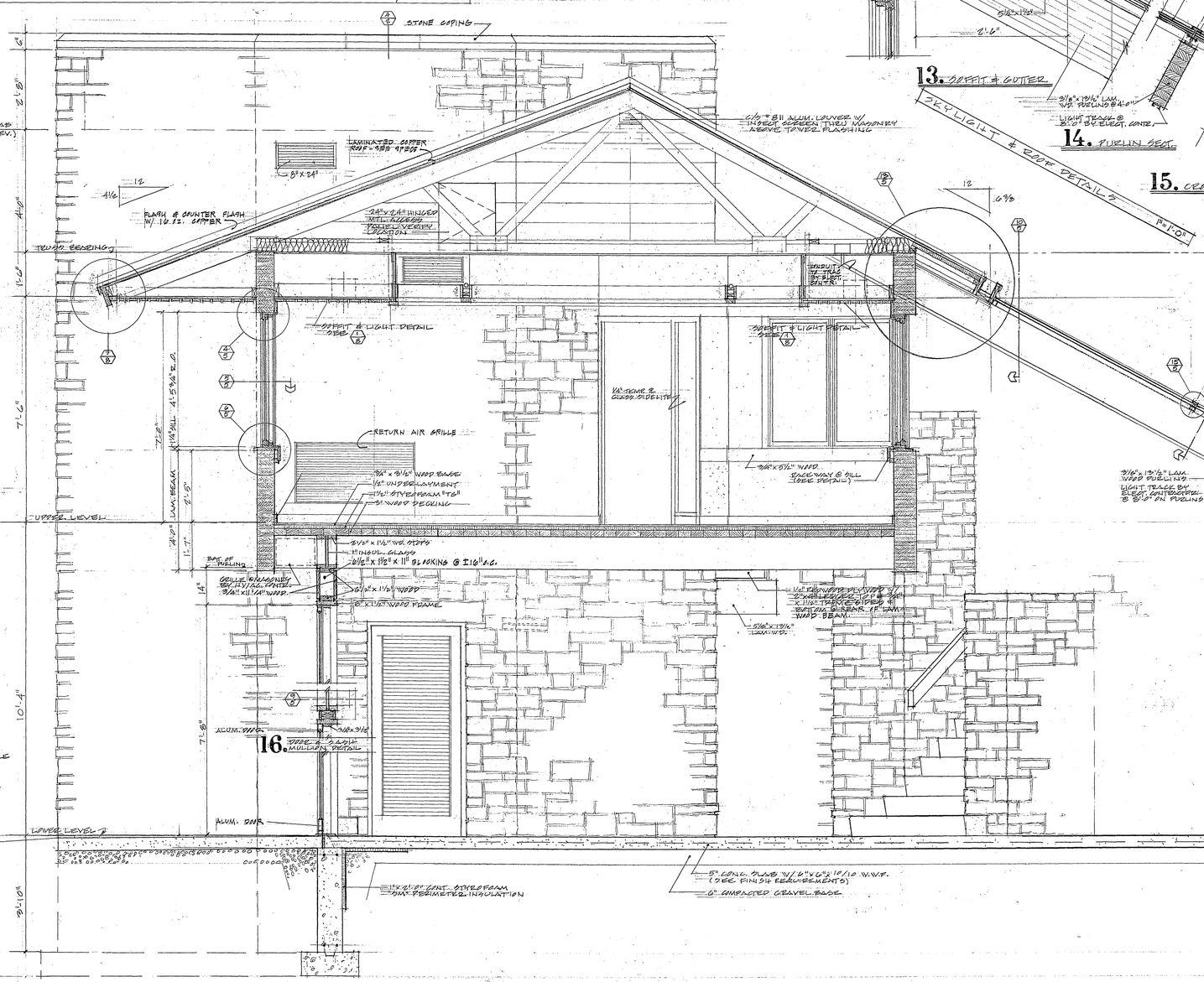
7. MASONRY JAMB

8. SASH MULLION

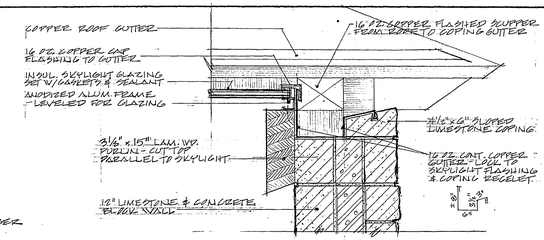
9. SASH SILL

S.W. LOWER LEVEL SASH DETAILS

SCALE: 1" = 1'-0"



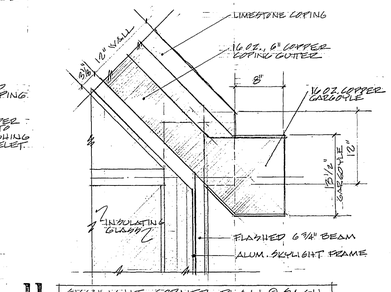
A.-A. TRANSVERSE SECTION 1/2" = 1'-0"



10. GUTTER & COPING SECTION

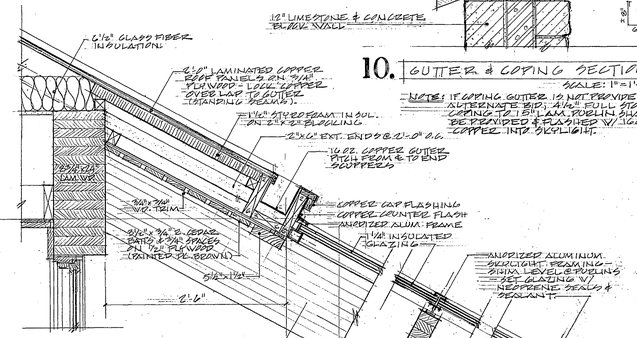
SCALE: 1" = 1'-0"

NOTE: IF COPING GUTTER IS NOT PROVIDE PER ALTERNATE BID, AN 8" FULL STONE COPING TO BE LAM. PURLIN SHALL BE REVISED & FLASHED W/ 16 OZ. COPPER INTO SKYLIGHT.



11. SKYLIGHT CORNER PLAN @ SASH

SCALE: 1" = 1'-0"

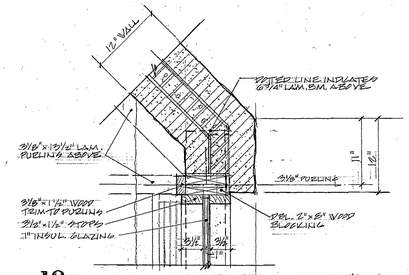


13. SOFFIT & GUTTER

SKYLIGHT & EAVE DETAILS

14. PURLIN SEAT

15. CROSS RAFTER



12. SKYL. JAMB @ MASONRY CORNER

SCALE: 1" = 1'-0"

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1/2" SECTION & DISPLAY & MULTI-PURPOSE ROOM

DETAILS & INTERIOR ELEVATION

5.

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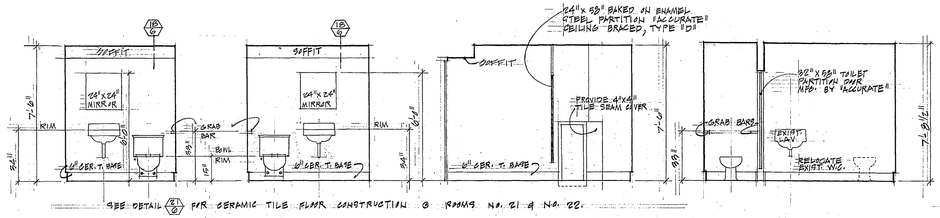
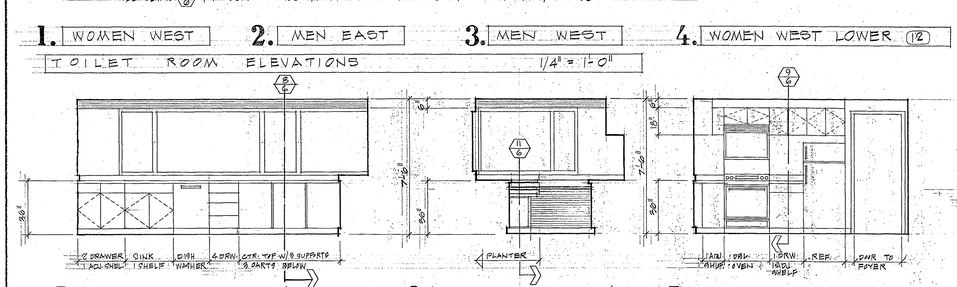


1. WOMEN WEST



2. MEN EAST

3. MEN WEST

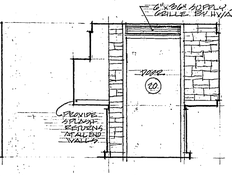
4. WOMEN WEST LOWER (12)

TOILET ROOM ELEVATIONS 1/4"=1'-0"

5. KITCHEN WEST

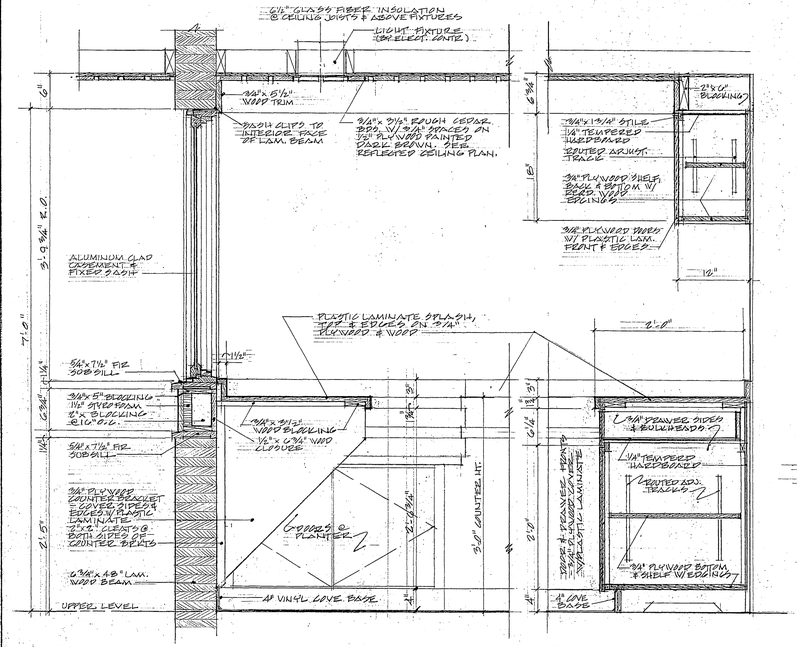
6. KITCHEN NORTH

7. KITCHEN EAST



7-A. KITCHEN SOUTH

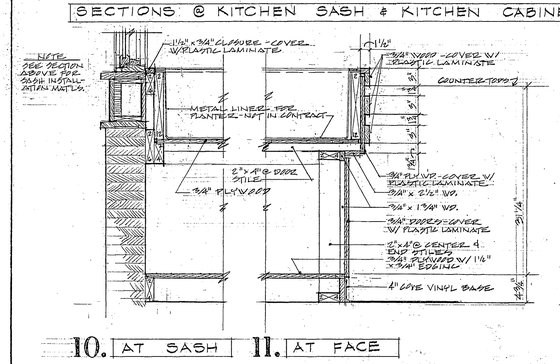
KITCHEN ELEVATIONS 1/4"=1'-0"



8. AT SASH

9. AT CABINETS

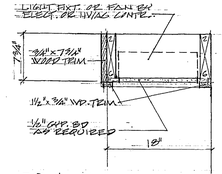
SECTIONS @ KITCHEN SASH & KITCHEN CABINETS 1"=1'-0"



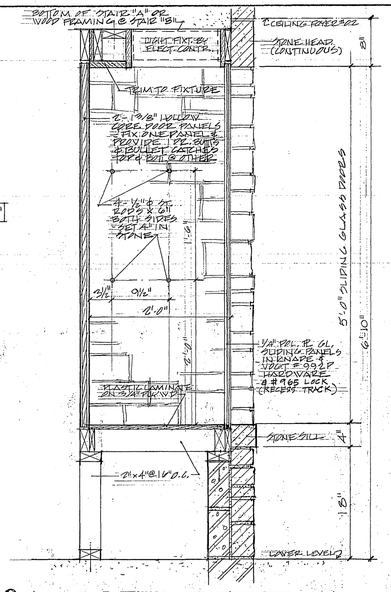
10. AT SASH

11. AT FACE

SECTIONS @ KITCHEN PLANTER 1"=1'-0"

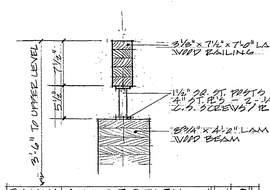


18. SOFFIT SECTION 1"=1'-0"

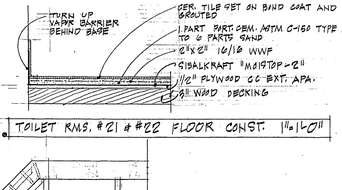


19. SECTION @ DISPLAY CASES 1" = 1'-0"

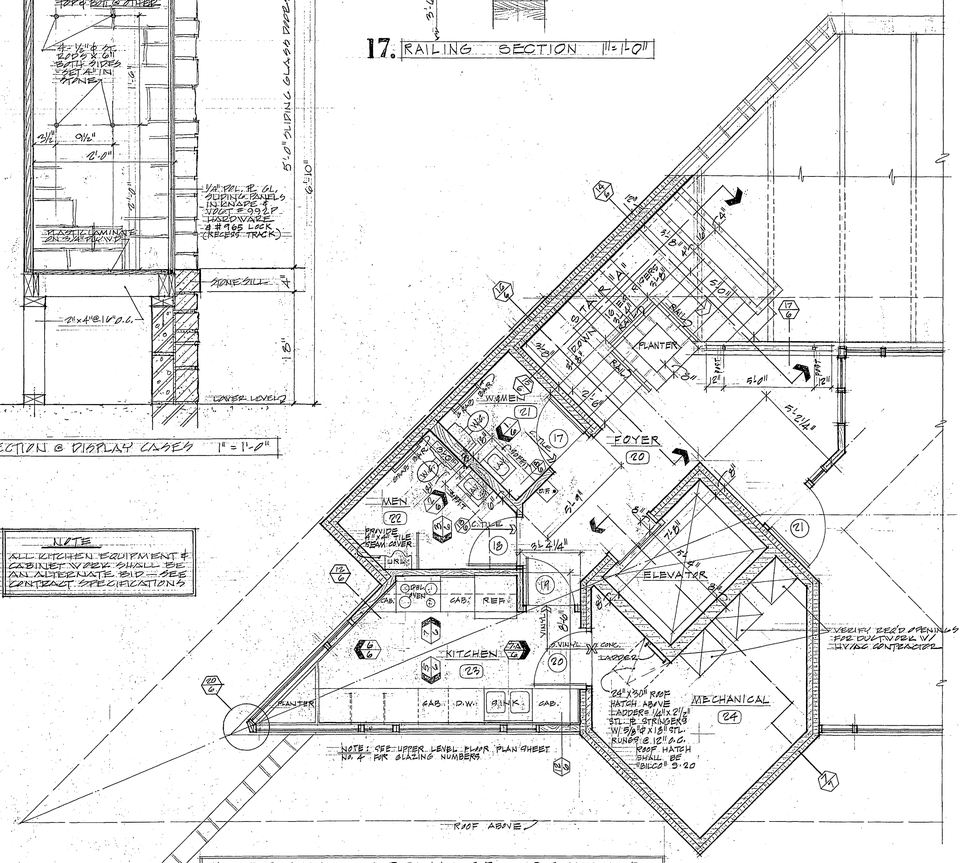
NOTE
ALL KITCHEN EQUIPMENT & CABINET WORK SHALL BE AS ALTERNATE BID - SEE CONTRACT SPECIFICATIONS



17. RAILING SECTION 1"=1'-0"



21. TOILET RMS. #21 & #22 FLOOR CONST. 1"=1'-0"

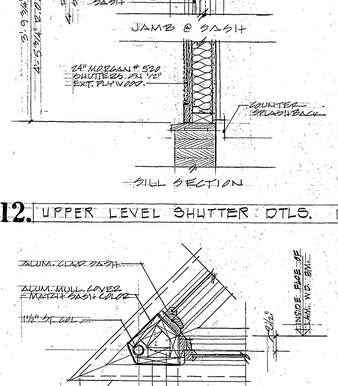


PARTIAL UPPER LEVEL FLOOR PLAN 1/4"=1'-0"

KITCHEN APPLIANCE SCHEDULE

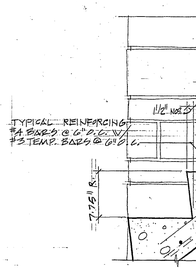
APPLIANCE	MODEL NO.	COLOR	MFG'R.	REMARKS
REFRIGERATOR	TBF-149	*SELECTION BY ARCHITECT	G.E.	
RANGE-OVEN	JHC-56	*SELECTION BY ARCHITECT	G.E.	
RECIRCULATING FILTER KIT	JX-79	*SELECTION BY ARCHITECT	G.E.	MTD TO JHC-56 RANGE-OVEN

PLAN INDICATING
: STONE
: CONC. BLOCK
: WOOD STUD

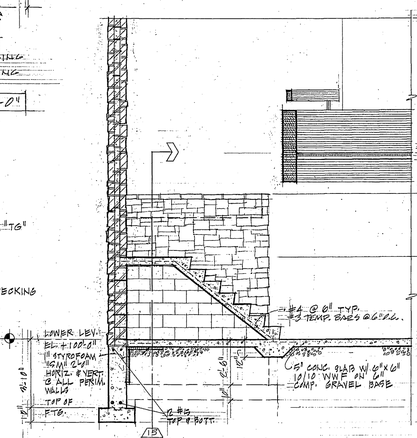


12. UPPER LEVEL SHUTTER DTLS. 1"=1'-0"

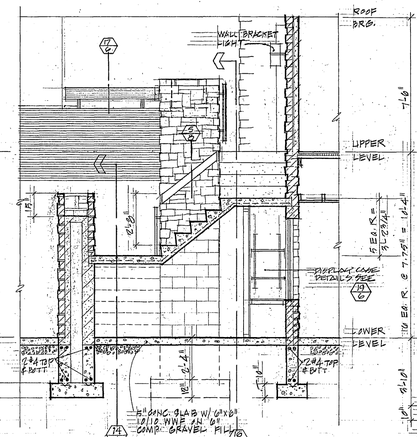
20. CORNER MULLION 1"=1'-0"



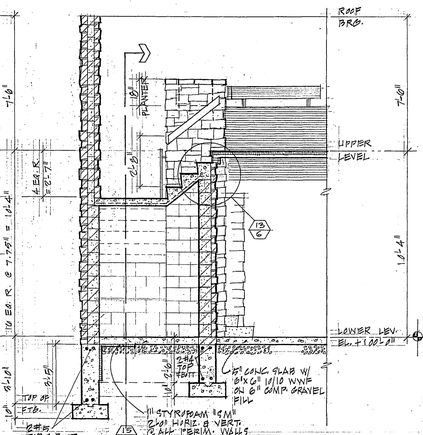
13. DTL. @ WOOD DECK 1"=1'-0"



14. SECTION @ STAIR "A" 1/4"=1'-0"



15. SECTION @ STAIR "A" 1/4"=1'-0"



16. SECTION @ STAIR "A" 1/4"=1'-0"

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PARTIAL UPPER LEVEL FLOOR PLAN; TOIL. RM. # KIT. ELEVATIONS # DTLS. STAIR "A" SECTIONS # DETAILS

6.

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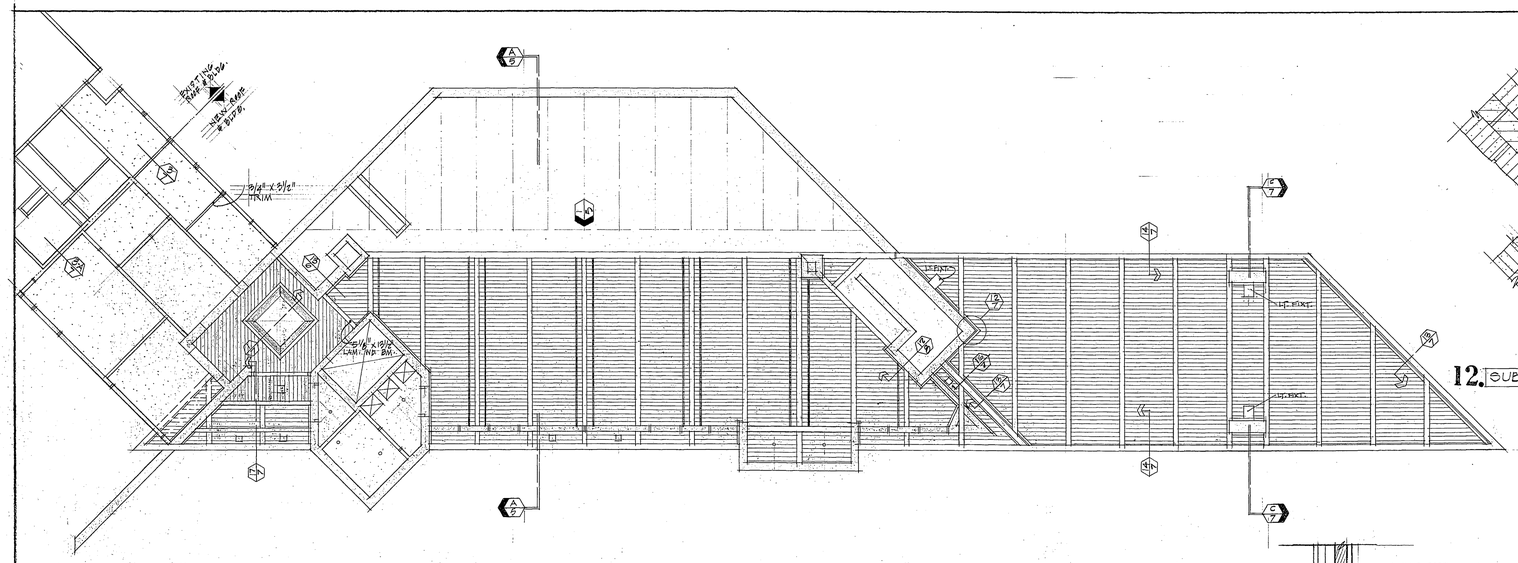
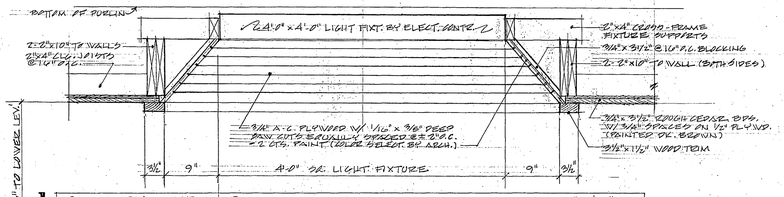
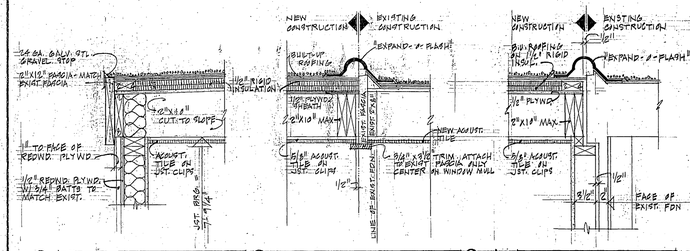


LOWER LEVEL REFLECTED CEILING PLAN 1/8"=1'0"

NOTE: SEE LOWER LEVEL FLOOR PLAN / ELECTRICAL SHEET NO. E-1 FOR LIGHTING FIXTURE TYPES, SWITCHING & WIRING. WALLS ARE SHOWN SHADED



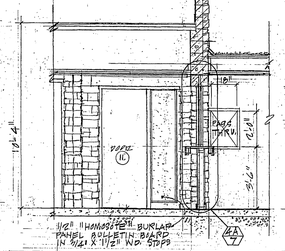
1. SECTION THRU RECESSED LIGHT @ FOYER 1"=1'0"



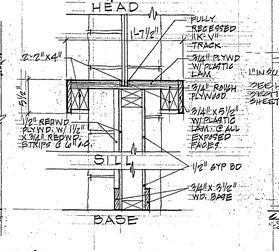
2. FASCIA DTL. 1"=1'0"

3. SECT. @ DISPLAY GALL. #07

3-A. SECT. @ COATS & DIR. OFF.

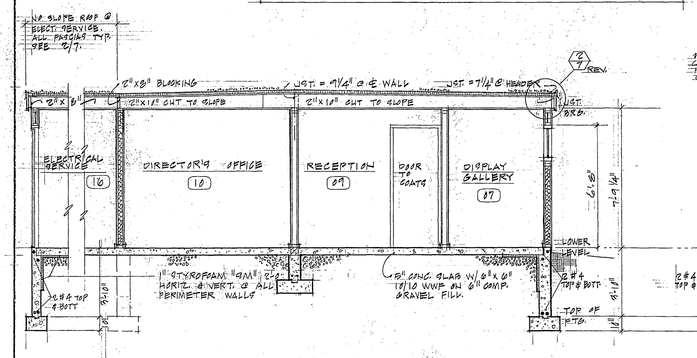


4. DTL. @ RECEPTION DESK 1/4"=1'0"

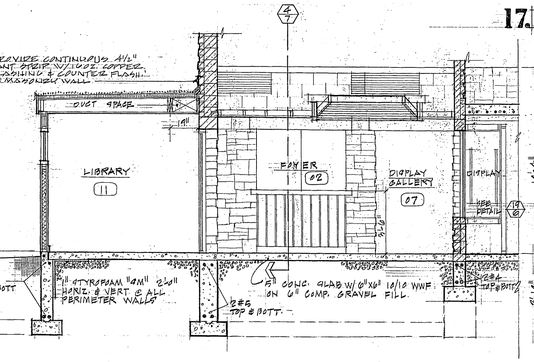


4-A. SECT. THRU RECEP. GL. 1"=1'0"

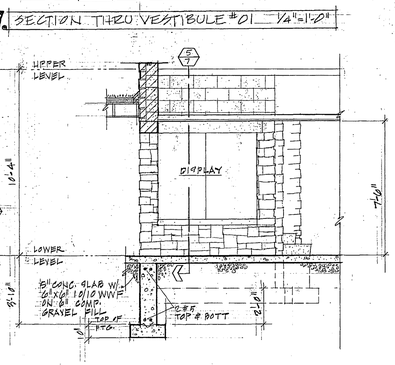
SECTIONS @ NEW & EXIST. CONST. 1"=1'0"



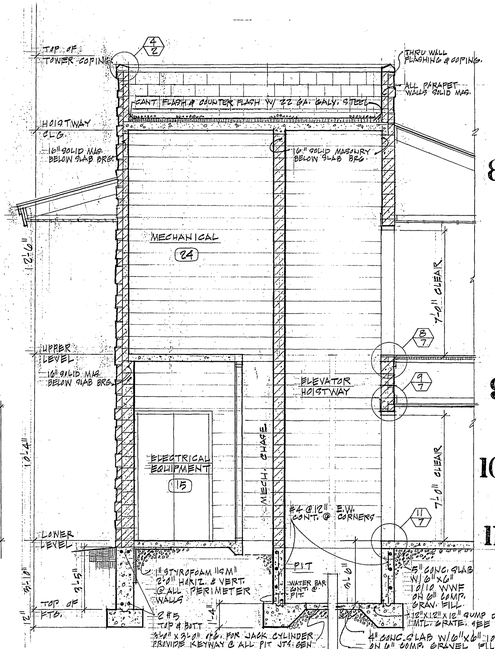
B-B. SECTION @ CONNECTING WING 1/4"=1'0"



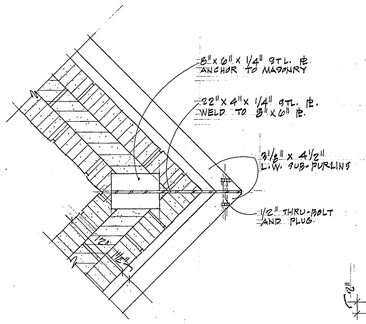
5. SECTION - ELEV. @ LOWER LEVEL FOYER 1/4"=1'0"



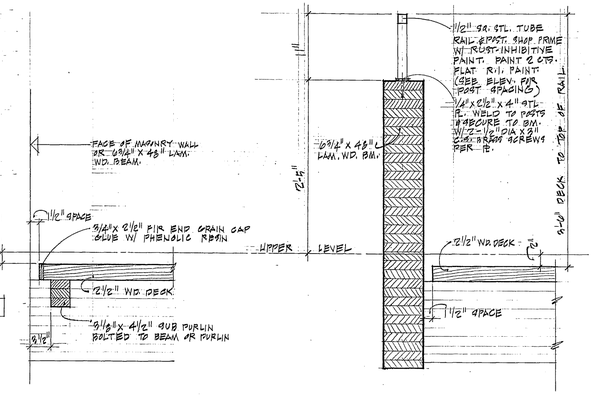
6. ELEV. @ DISPLAY 1/4"=1'0"



7. SECTION @ MECH. TOWER 1/4"=1'0"

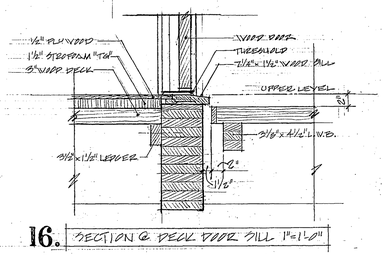


12. SUBPURLIN SUPPORT @ CORNER 1"=1'0"

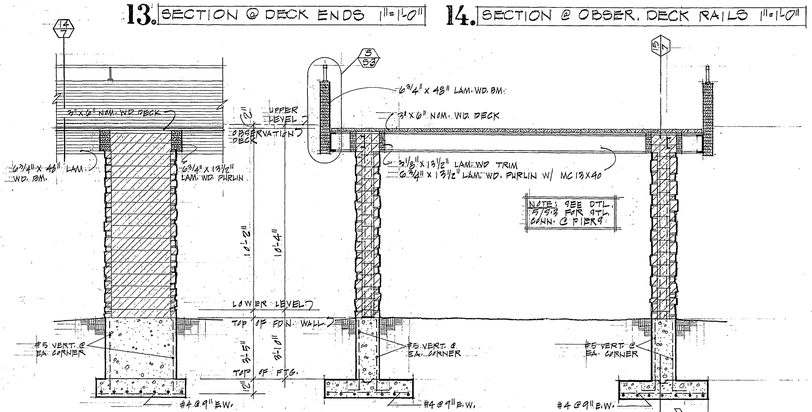


13. SECTION @ DECK ENDS 1"=1'0"

14. SECTION @ OBSER. DECK RAILS 1"=1'0"



16. SECTION @ DECK DOOR SILL 1"=1'0"



15. DTL. @ PIER 1/4"=1'-0"

C-C. SECTION @ OBSERVATION DECK 1/4"=1'0"

8. SILL

9. HEAD

10. JAMB

11. SILL

ELEV. DR. FRAME DTLS 1"=1'0"

7.

8-31-76

STUART WILLIAM GALLAHER, ARCHITECT, INC.
702 NORTH BLACKHAWK AVENUE MADISON, WISCONSIN

OLDRICH GARDEN CENTER COMPLEX
MADISON BOARD OF PARK COMMISSIONERS • MADISON • WISCONSIN

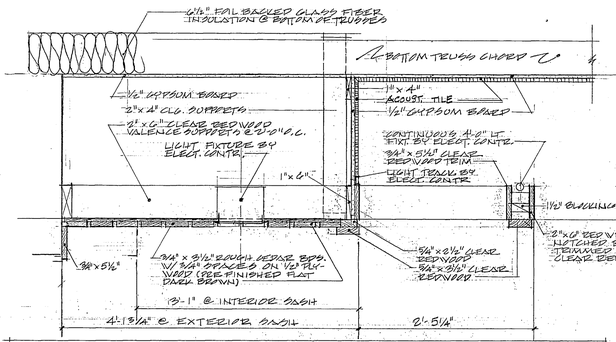
LOWER LEV. REFLECTED CLG. PLAN
1/4" SECTIONS & DETAILS

STUART WILLIAM GALLAHER, ARCHITECT, INC.
702 NORTH BLACKHAWK AVENUE • MADISON, WISCONSIN

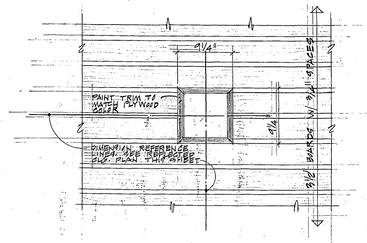
OLDRICH GARDEN CENTER COMPLEX

MADISON BOARD OF PARK COMMISSIONERS • MADISON • WISCONSIN

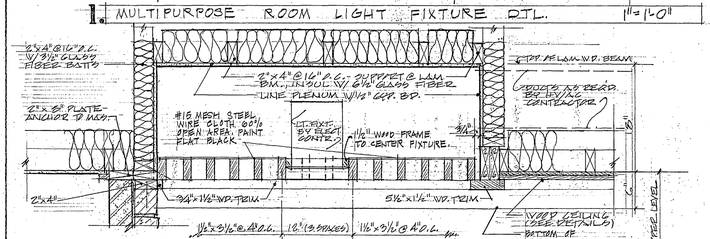
UPPER LEVEL REFLECTED CLG PLAN & DETAILS
STAIR "B" SECTIONS & DETAILS



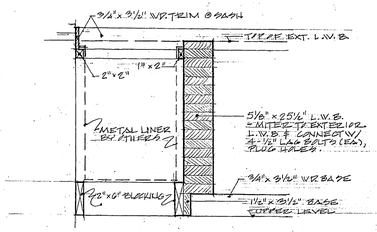
1. MULTIPURPOSE ROOM LIGHT FIXTURE DTL. 1"=1'-0"



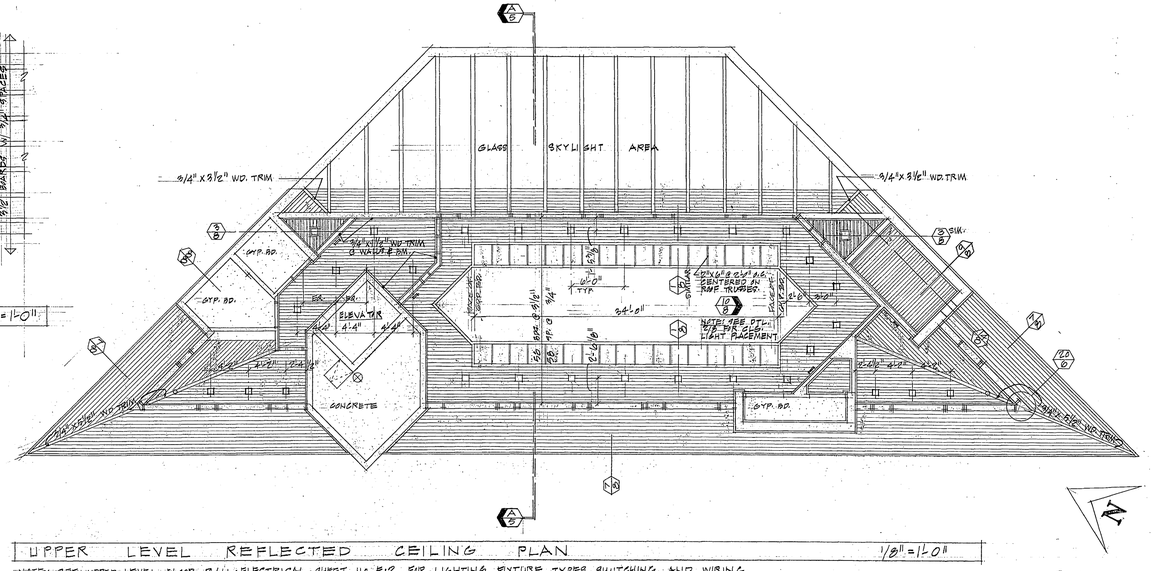
2. TYP. UPPER LEV. LIGHT FIXT. 1"=1'-0"



3. SECTION THRU RETURN AIR GRILLE 1"=1'-0"

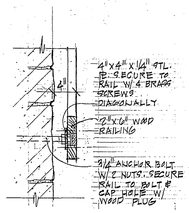


4. EXTERIOR PLANTER SECTION 1"=1'-0"

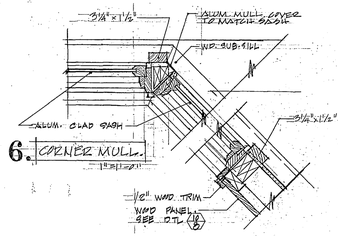


UPPER LEVEL REFLECTED CEILING PLAN 1/8"=1'-0"

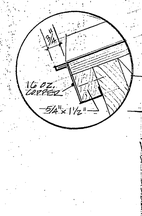
NOTE: SEE UPPER LEVEL FLOOR PLAN - ELECTRICAL SHEET NO. E-2 FOR LIGHTING FIXTURE TYPES, SWITCHING, AND WIRING. WALLS ARE SHOWN SHADED



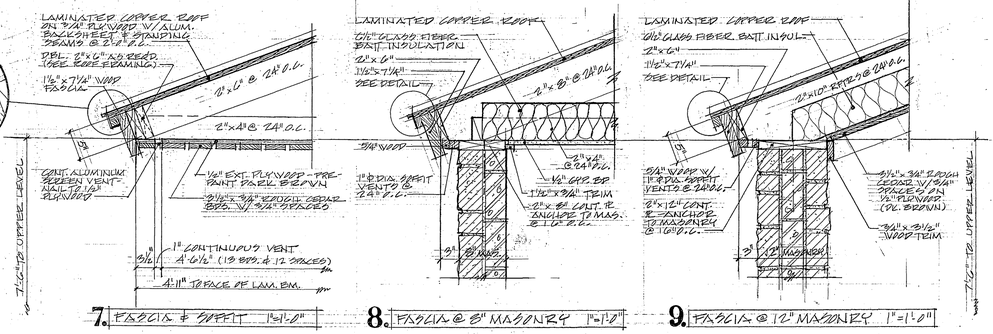
5. WALL RAIL @ STAIRS 1"=1'-0"



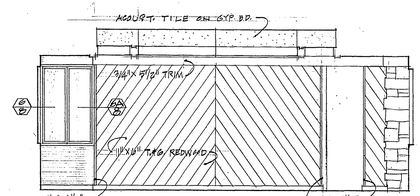
6. CORNER MULL.



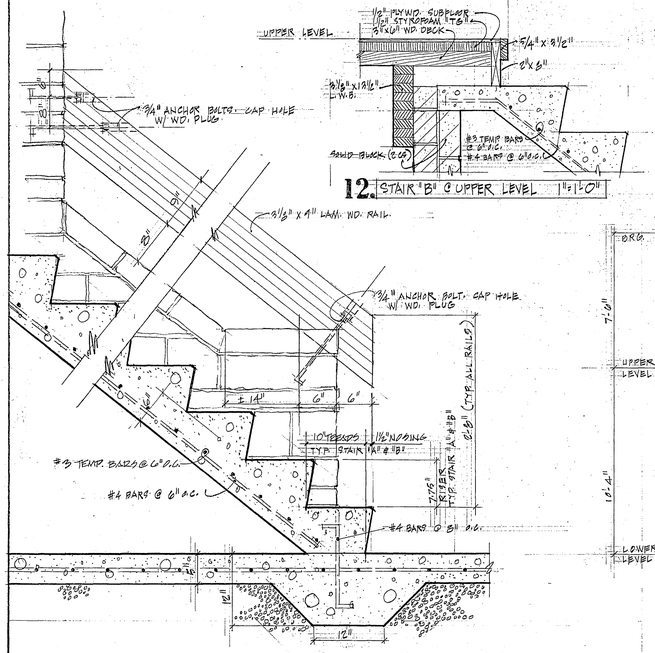
6-A. MULLION 1"=1'-0"



7. FASCIA & SOFFIT 1"=1'-0" 8. FASCIA @ 8" MASONRY 1"=1'-0" 9. FASCIA @ 12" MASONRY 1"=1'-0"

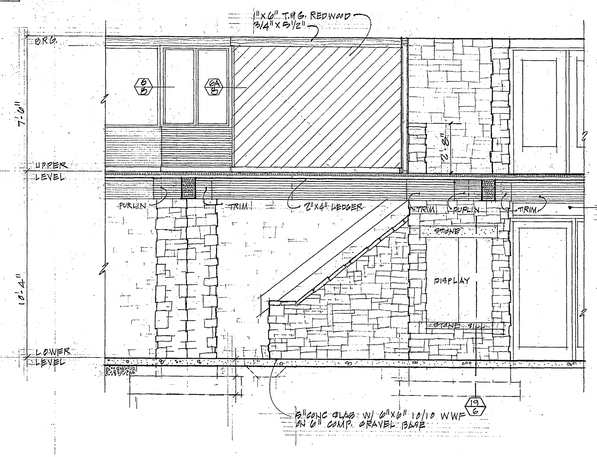


10. S.E. ELEV. @ MULTI-PURPOSE RM. 1/4"=1'-0"

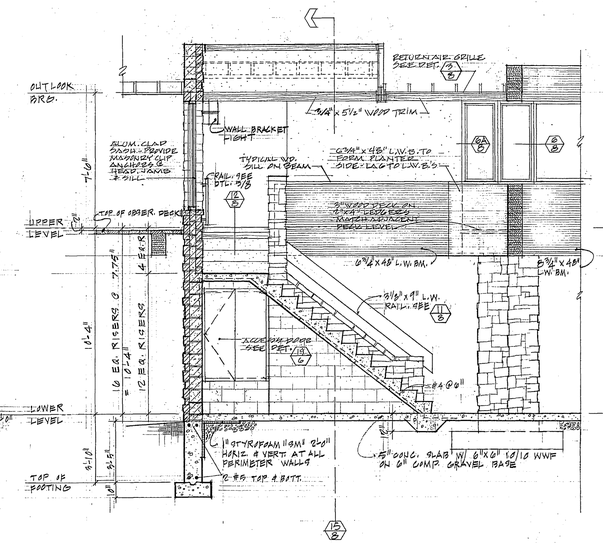


11. STAIR "B" LAM. WD. RAIL DTL. 1"=1'-0"

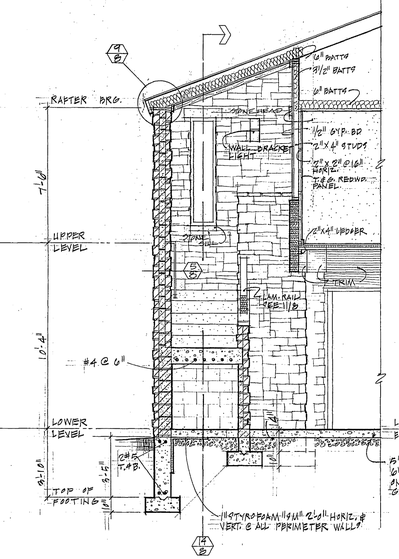
12. STAIR "B" @ UPPER LEVEL 1"=1'-0"



13. STAIR "B" WEST ELEVATION 1/4"=1'-0"



14. STAIR "B" LONGITUDINAL SECTION 1/4"=1'-0"



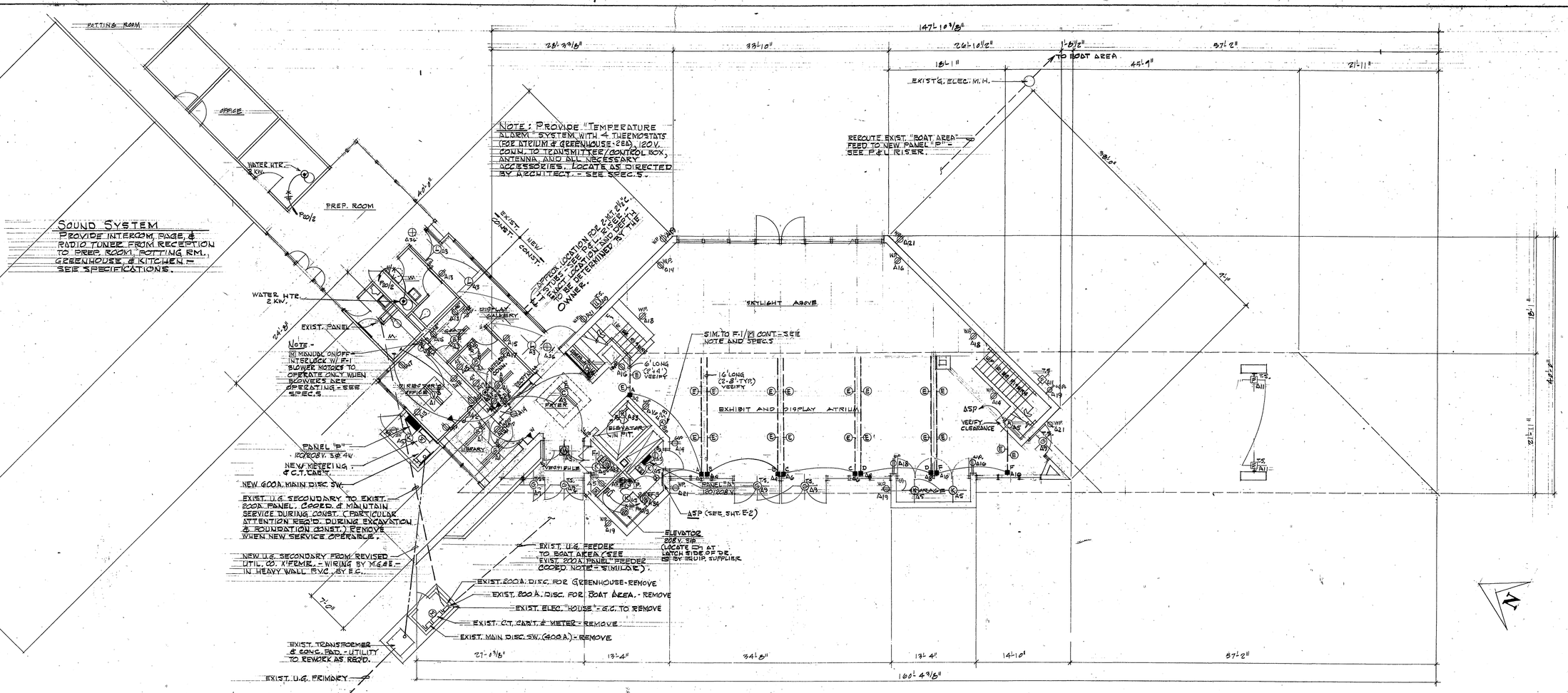
15. STAIR "B" TRANS. SECT. 1/4"=1'-0"

8/31/76

8.

SOUND SYSTEM

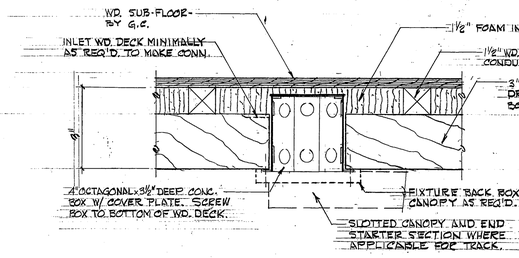
PROVIDE INTERCOM, PAGE, & RADIO TUNER FROM RECEPTION TO PREP. ROOM, POTTING RM., GREENHOUSE, & KITCHEN. - SEE SPECIFICATIONS.



NOTE: SEE LOWER LEVEL REFLECTED CLG. PLAN SHEET NO. 7 FOR FIXTURE LOCATION DIMENSIONS

LOWER LEVEL FLOOR PLAN - ELECTRICAL

1/8" = 1'-0"



OUTLET BOX MOUNTING IN WOOD DECKING

N.T.S.

LIGHTING FIXTURE SCHEDULE

SYMBOL	TYPE	MFG.	FIXTURE NO.	LAMP	REMARKS
A	FLUORESCENT OPEN	L.P.I.	98 HR 2 - 40	2 - F48 WW	W/ ACRYLIC LENS - SEE NOTE #8
B	WRAPAROUND EXT.	DAYBRITE	4545T-4-BL.	4 - F40 WW	M.B. TRIM & INJECTION MOLDED ACRYLIC LENS - SEE NOTE #1.
C	FLUORESCENT SURF.	LITHONIA	4S6.840/DC	4 - F40 W.W.	INSTALL IN ANGLED WD. CLG. AS DIRECTED BY ARCH. - NOTE #6
D	FLUORESCENT OPEN	L.P.I.	90 HR 1 - AD	1 - F40 W.W.	MOUNT F-10 WORK TROUGH AT DIRECTED BY ARCH. - VERIFY OUTDR.
E	LIGHTING TRACK	HALO	L 612 H/D 3 FIXTURES E TRACK L 1615 M/B = FIXTURES	1-150W/R40 FL. PER	PROVIDE 3W. 12/2 LINE SIDE CONN'G. STRAIGHT CONN'G. & OUTLET BOX COVERS
F	INCAND. WALL	MC PHILBEN	15B-232/30/TR/RA/MOD	1200 W. 2800 HR SP. 9¼C.	MOUNT BACK TIGHT TO DECK AND OVER BACK BOX IN WD. TRIM - DIFFUSER DN.
G	INCAND. SURFACE	PRESCOLITE	7212/POLYCARB. DIFF/DL	*2 - 100 W./A-19	MOUNT TIGHT TO DECK OVER CONC. BOX - SEE DETAIL
H	INCAND. WALL	WINONA STUDIO OF LTG.	1620/2WB-F	2 - 60 W	W/D. HEIGHTS - SEE 16 & 15
K	PARC. SOCKET	P&S	37	*50 W.	KEYLESS W/ 15A. RECEPT.
L	INCAN. SURFACE	MARKSTONE	1412 SQUARE	*2 75 W.	
M	INCAN. RECESSED	HALO	H101-110/P	*1-100 W.	7 3/8" SQ. TRIM, ALBALITE GL. LENS - PAINT TRIM TO MATCH CLG.
P	FLUOR. SOFFIT	DAYBRITE	4F21-S84/PLAS.	2 - F40 WW	W/ K12 LENS - MOUNT IN SOFFIT.
R	INCAND. SURFACE	LIGHTOLIER	CDI-GB24/CL. GLOBE	24 - 20 W./T-4	MOUNT TO DECK AS DIRECTED BY ARCH.
S	UNDER CAB'T. FLUOR.	ALKO	320-H	1 - 20 W. T5.	HEF. / MOUNT TIGHT TO UNDER-SIDE OF CAB'T.
U	INCAND. RECESSED	MOLDCAST	V-372	*2 - 60 W/A-19	SEE NOTE #4
V	SURF. FLUORESCENT	LIGHTOLIER	1819B/CORONA	8 - F40 W.W.	SEE NOTE #5.
W	INCAND. RECESSED	MC PHILBEN	GW-208/B	1 - 150 W/R-40 FL.	MOUNT IN WD. R.A. GRILL AS DIRECTED BY ARCH.
⊗	CLG MT. EXIT LT.	ART METAL	E-R-2C	2 - 20 W./T-6½	ARROW RIGHT & ARROW LEFT.
⊗	CLG MT. EXIT LT.	ART METAL	E-R-1	2 - 20 W/T-6½	
⊚	INCAND. SURF.	HALO	L-762/W - L973/MB	1-50 W./R20	SPECIFIC LOCATION AS DIRECTED BY ARCH.

1. SWITCH INBOARD AND OUTBOARD LAMPS SEPARATELY.
2. SWITCH OUTBOARD AND TWO CENTER LAMPS SEPARATELY FROM THE REMAINING FOUR LAMPS.
3. MOUNT FIXTURE AND LENS AT TOP OF DISPLAY CASE IN POCKET AS DIRECTED BY ARCHITECT.
4. MOUNT ON WALL, UP 18" TO TOP. COORD. LOCATION W/ G.C. SO AS TO OBTAIN AS FLUSH WALL SURFACE AT FIXTURE/WALL JUNCTURE. VERIFY EXACT LOCATION W/ ARCHITECT PRIOR TO ROUGH-IN.
5. SWITCH ALTERNATE LAMPS SEPARATELY FROM TWO SWITCHES.
6. * DENOTES 2500 HOUR SPECIAL SERVICE LAMPS.
7. ALL EXIT FIXTURES 120 V. - METAL STENCIL FACE W/ RED LETTERS.
8. ALL FLUORESCENT FIXTURES W/ 120 V., HPF, SUPER PREMIUM CLASS "P" BALLAST.

KEY TO ELECTRICAL SYMBOLS

LIGHTING FIXTURES

- TYPE (M) SW. CIRC. - RECESSED INCANDESCENT
- SURFACE MOUNTED INCANDESCENT
- FLUORESCENT
- LIGHTING TRACK W/ ALL REQ'D ACCESSORIES
- EXIT LIGHT
- WALL BRACKET MTD. FLUSH TO DECK W/ LENS FACING DOWNWARD.
- WALL BRACKET

OUTLETS

- HUBBELL 5262-I - UP 12" OR AS NOTED
- WP HUBBELL 5262-I AND 5206 COVER IN CAST P.S. BOX. - MOUNT HORIZ. UP 12".
- HUBBELL 2460 50A. 4W RANGE RECEPT. - 208 V. 1Ø 3W. + GRD. - UP 36".
- HUBBELL 5462 20A. 3W. 208 V. 1Ø DUPLEX RECEPT. MOUNT UP 24".

SWITCHES

- HUBBELL 1201-I, SINGLE POLE TOGGLE SW. UP 48" OR AS NOTED - TYPICAL.
- HUBBELL 1202-I 2-POLE TOGGLE SW.
- HUBBELL 1203-I 3-WAY TOGGLE SW.
- SWITCH AND RECEPTACLE IN COMMON TWO GANG BOX - UP 48".
- HUBBELL 1201-PL LIGHTED HANDLE PILOT TOGGLE SW.

MISCELLANEOUS

- (M) MOTOR CONNECTION - HP INDICATED
- (C) SIERRA 2123, 120 V. CLOCK OUTLET.
- (T) LOW VOLTAGE THERMOSTAT CONNECTION
- (W) WATER COOLER. MOUNT BUSS STR. SERIES RECEPT. W/ FUSTAT UP BEHIND UNIT.
- (V) SOLENOID CONTROL VALVE CONNECTION MOUNT OUTLET BOX UP 84" FOR URINAL FLUSH VALVE.
- (T) URINAL FLUSH VALVE TIMER CONNECTION. INSTALL IN DEEP 3 GANG BOX W/ BLANK COVER.
- (D) A.H. #4029 COMMERCIAL DUTY DOOR OPERATED SWITCH AND BACK BOX. ADVISE G.C. AS TO SIZE OF OPENING.
- (TS) INTERMATIC V25073 DPST TIME SWITCH W/ ASTRO DIAL 43° N. LAT.
- EQUIPMENT CONNECTION
- PANELBOARD
- SAFETY DISCONNECT W/ COVER INTERLOCK
- STARTER - BY ELEC. CONTR.
- TELEPHONE OUTLET - UP 12" OR AS NOTED. W DENOTES OUTLET FOR WALL PHONE) UP 36". / - DENOTES M.T. ¾" COND. STUB INTO ACCESSIBLE CEILING SPACE.
- (M) MOTORIZED DAMPER CONNECTION - SEE SPEC. 5 FOR FURNACE INTERLOCK BY E.C.
- EF EXHAUST FAN
- F-1 FURNACE #1 - SEE MECH.
- (H) HAND DRYER - ELECTRIC AIRE, MODEL "S" 688, 120 V., SURFACE UNIT. MOUNT UP 50" TO TOP.
- (J) JUNCTION BOX - AS REQ'D.
- CONCEALED CONDUIT - NO. OF CONDUCTORS INDICATED - "X" DENOTES SEPARATE TW GREEN GROUND.
- M.T. CONDUIT STUB INTO ACCESS. CLG. SPACE - ¾" COND. UNLESS NOTED.

BOEHME AND BATTERMAN, INC.
Consulting Engineers
Madison, Wisconsin
BB #629-176
2-31-76

E-1.

STUART WILLIAM GALLAHER, ARCHITECT, INC.
702 NORTH BLACKHAWK AVENUE • MADISON, WISCONSIN

OLBRICH - GARDEN CENTER COMPLEX
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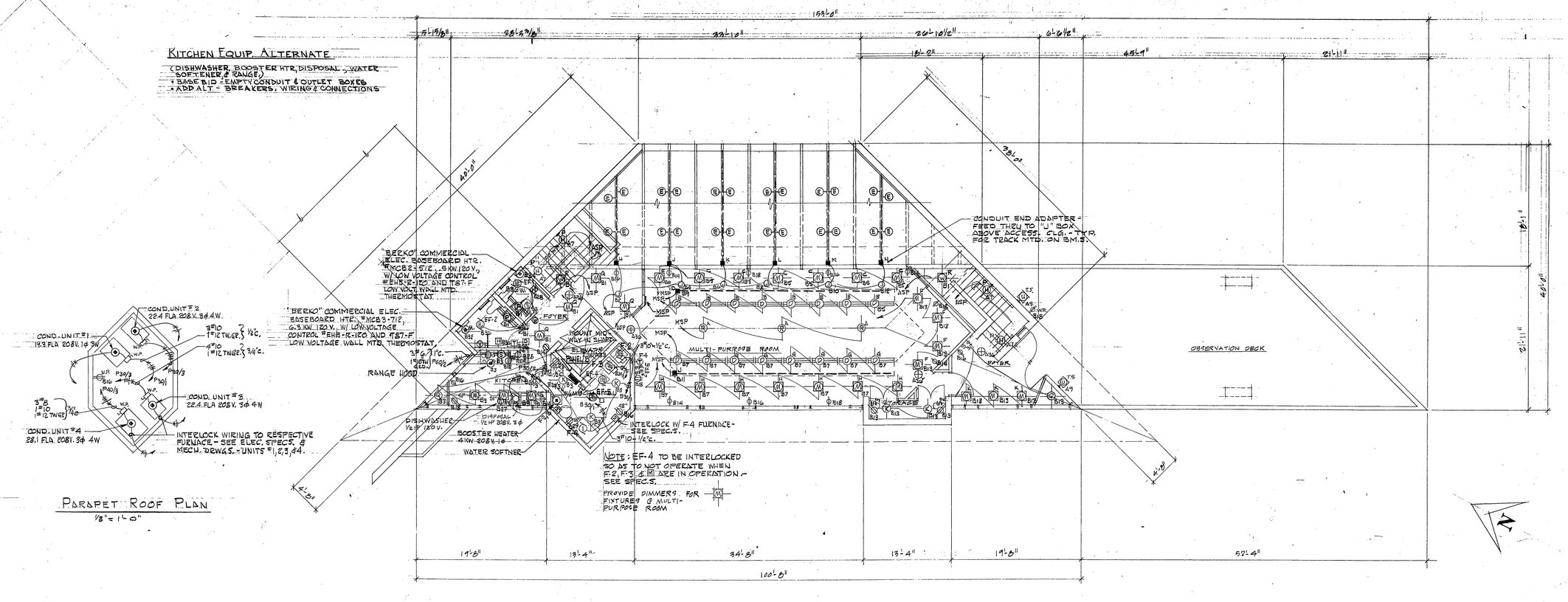
LOWER LEVEL FLOOR PLAN-ELECTRICAL
KEY TO ELECTRICAL SYMBOLS

KITCHEN EQUIP. ALTERNATE

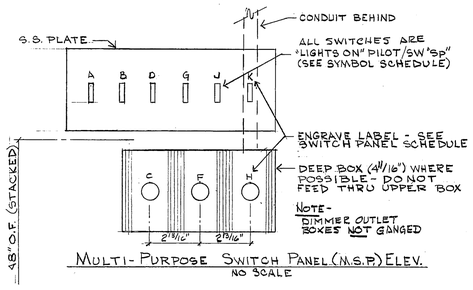
(DISHWASHER, BOOSTER HTR, DISPOSAL, WATER SOFTENER, & RANGE)
- BASE BID - EMPTY CONDUIT & OUTLET BOXES
- ADD ALT - BREAKERS, WIRING & CONNECTIONS



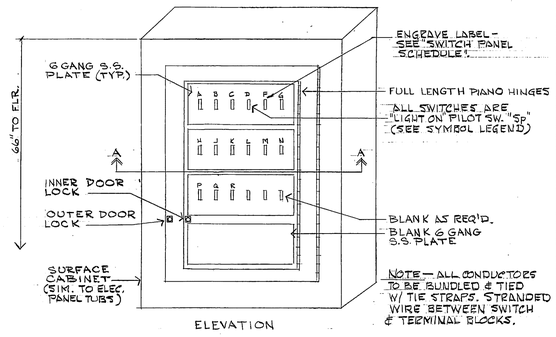
PARAPET ROOF PLAN
1/8" = 1'-0"

UPPER LEVEL FLOOR PLAN - ELECTRICAL 1/8" = 1'-0"

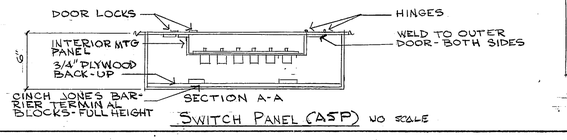
NOTE: SEE UPPER LEVEL REFLECTED CLG. PLAN SHEET NO. 8 FOR FIXTURE LOCATION DIMENSIONS
SEE LOWER LEVEL FLOOR PLAN - ELECTRICAL SHEET NO. E-1 FOR KEY TO ELECTRICAL SYMBOLS



MULTI-PURPOSE SWITCH PANEL (M.S.P.) ELEV.
NO SCALE



ELEVATION



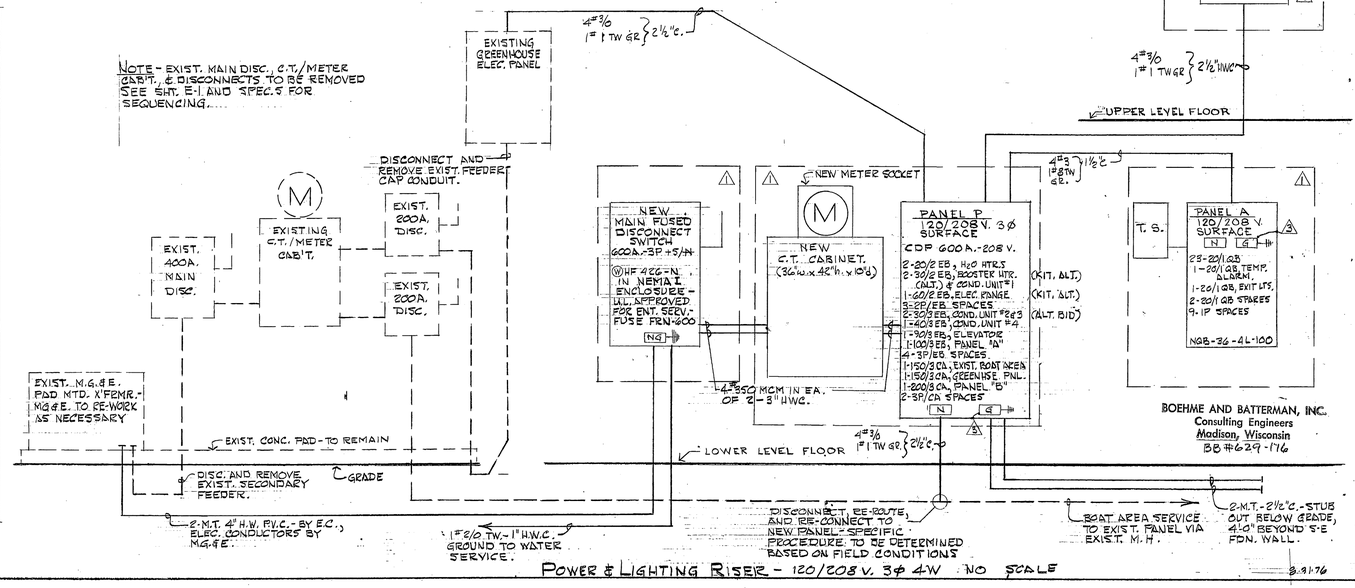
SWITCH PANEL (A5P) NO SCALE

SW. PANEL	SW. DESIG.	CIRC.	NO. POLES	AREA SERVED	REMARKS
A5P	A	A2	1P	TRACK LIGHTS	
	B	A4	1P	TRACK LIGHTS	
	C	A6	1P	TRACK LIGHTS	
	D	A8	1P	TRACK LIGHTS **	** MOUNT TO VEETICAL BULKHEAD
	F	A10	1P	TRACK LIGHTS	
	G	A5	1P	DISPLAY CASE	
	H	B	1P	TRACK LIGHTS	
	J	B	1P	TRACK LIGHTS **	
	K	B	1P	TRACK LIGHTS	
	L	B	1P 3	TRACK LIGHTS	
	M	B	1P	TRACK LIGHTS	
	N	B	1P	TRACK LIGHTS	
	P	A7	1P	STAIR LIGHTS	
	Q	B	1P	UPPER FOYER	
	R	B	1P	R.A. FL. LIGHTS	
M.S.P.	A	B	1P	CIRC. LIGHTS	
	B	B	1P	EAST TROUGH	
	C	B,	Ⓓ*	EAST DL. LIGHT	*ATMOS A&E 10, 120 V., 1000 W. DIMMER
	D	B	1P	EAST TRK. LIGHT	
	F	B	Ⓓ**	SOUTH D.L.	**ATMOS A&E 6, 120 V. 600 W. DIMMER
	G	B	1P	WEST TROUGH	
	H	B	Ⓓ*	WEST D.L.	
	J	B	1P	WEST TRK. LIGHT	
	K	B	3P	SOUTH FOYER	

SWITCH PANELS SCHEDULE

P. & L. RISER NOTES -

1. 3/4" PLYWOOD BACK-UP - SEE SPECS
2. ALL WIRING IS COPPER (ALUMINUM IS NOT ACCEPTABLE).
3. PROVIDE SEPARATE GREEN GROUND BAR, SIMILAR TO NEUTRAL, EXCEPT TINTED GREEN - SEE SPECS.



POWER & LIGHTING RISER - 120/208 V. 3φ 4W NO SCALE

8.9.76

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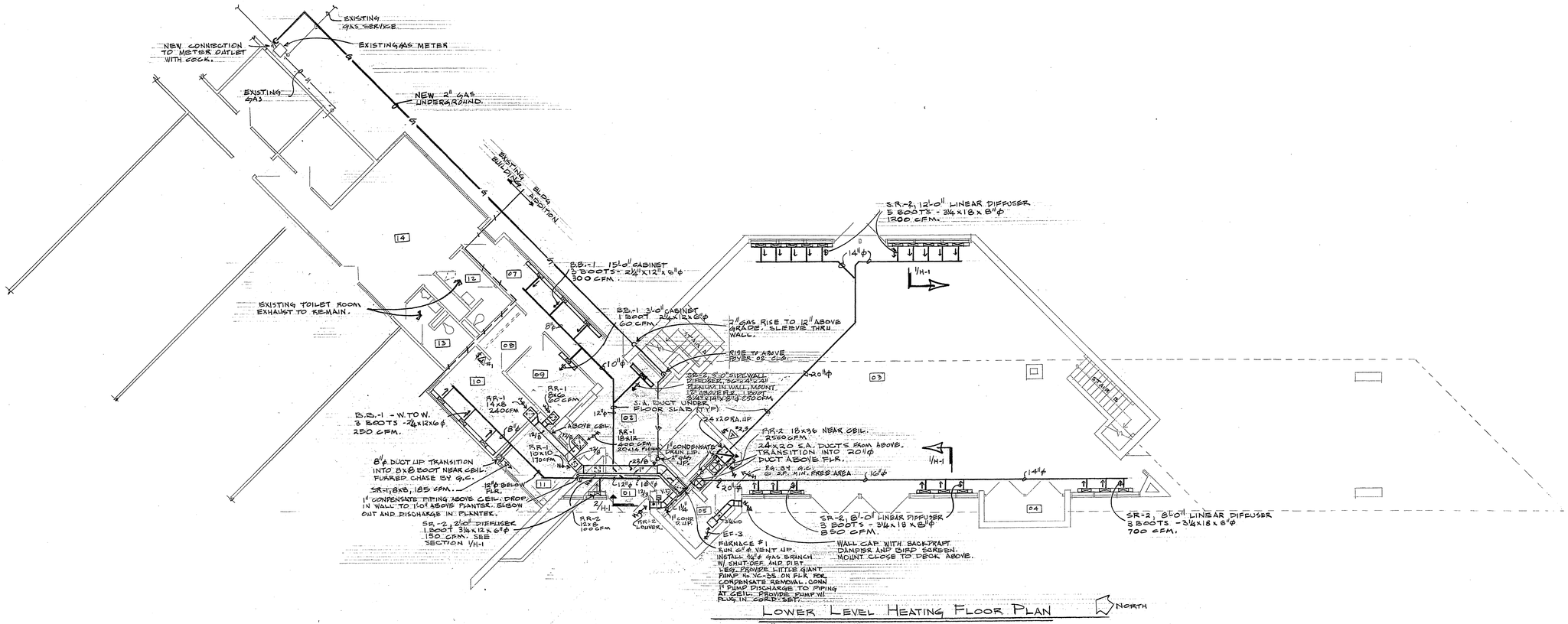
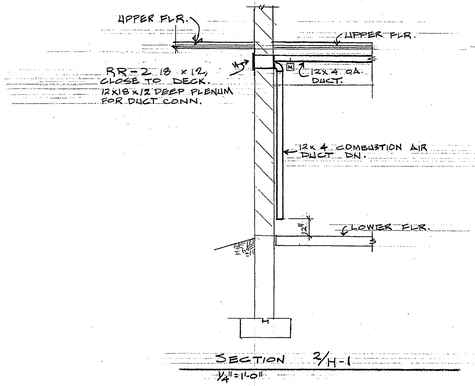
UPPER LEVEL FLOOR PLAN-ELECTRICAL

E-2.



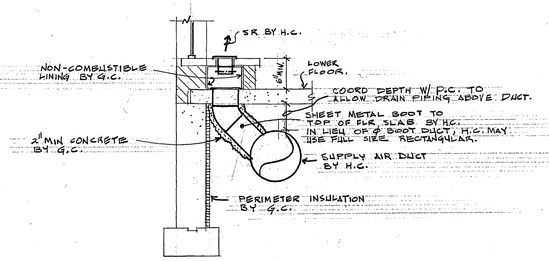
LOWER LEVEL HEATING FLOOR PLAN

1/8" = 1'-0"



SECTION 3/H-1

1/2" = 1'-0"



SECTION 1/H-1

1/2" = 1'-0"

HEATING SYMBOL LIST

B.B.	BASEBOARD SUPPLY REGISTER
D	CONDENSATE DRAIN
E.C.	ELECTRICAL CONTRACTOR
E.G.	EXHAUST GRILLE
E.R.	EXHAUST REGISTER
E.F.	EXHAUST FAN
G	GAS PIPING
G.C.	GENERAL CONTRACTOR
H.C.	HEATING CONTRACTOR
O.A.	OUTSIDE AIR
R.R.	RETURN REGISTER
S.A.	SUPPLY AIR
S.R.	SUPPLY REGISTER
T.	THERMOSTAT
V.D.	VOLUME DAMPER
W. TO W.	WALL TO WALL
	SUPPLY AIR DUCT
	RETURN OR EXHAUST DUCT
	FIRE DAMPER IN VERTICAL SEPARATION
	FIRE DAMPER IN HORIZONTAL SEPARATION
	THERMOSTAT, ELECTRIC
M	MOTOR OPERATED DAMPER
	VENTILATION SWITCH BY E.C.

WISCONSIN
WILLIAM F. SHARP
E 13295
Madison
Wis.
PROFESSIONAL ENGINEER

ARNOLD & O'SHERIDAN, INC.
CONSULTING ENGINEERS
815 FORWARD DRIVE
MADISON, WISC. 53711

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H-1 H-2

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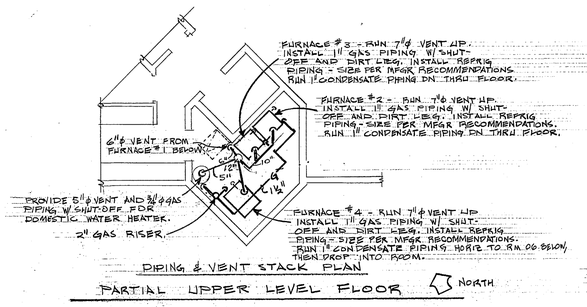
OLDRICH GARDEN CENTER COMPLEX
MADISON BOARD OF PARK COMMISSIONERS • MADISON • WISCONSIN

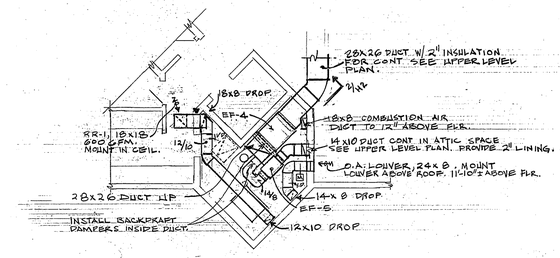
LOWER LEVEL HEATING FLOOR PLAN; HEATING SYMBOL LIST; DETAILS

H-1.



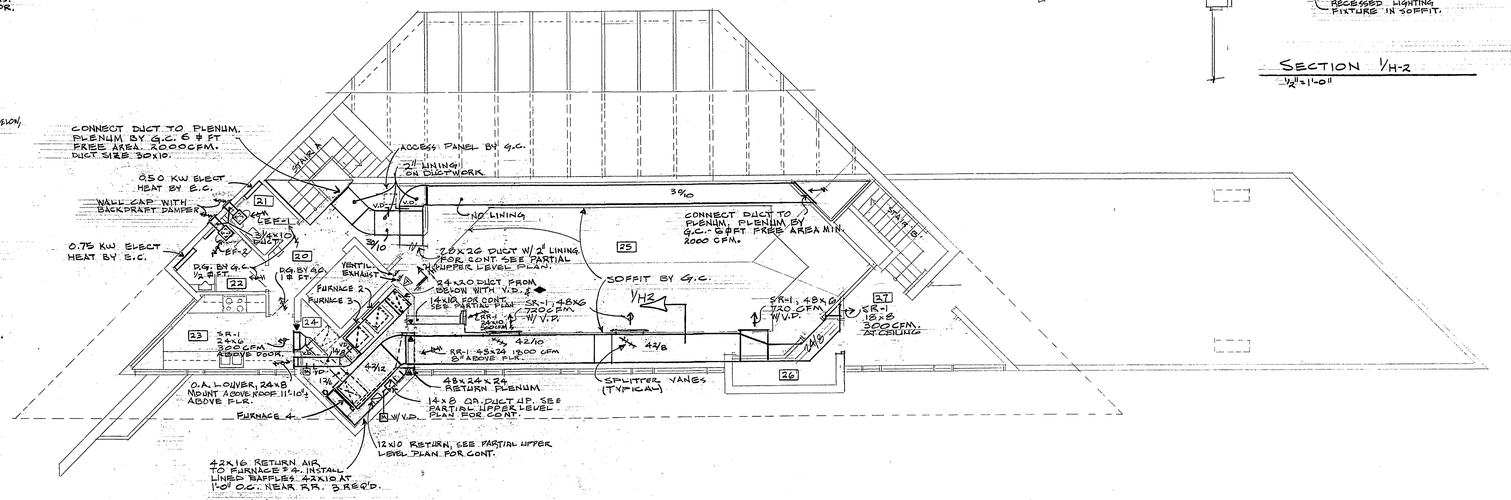
PIPING & VENT STACK PLAN

PARTIAL UPPER LEVEL FLOOR — NORTH



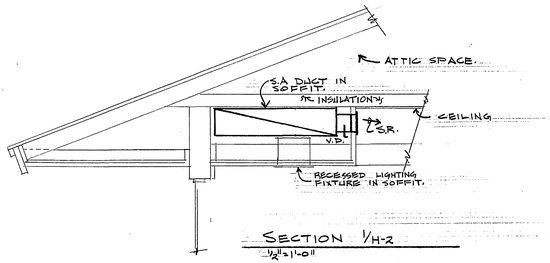
DUCTWORK PLAN

PARTIAL UPPER LEVEL PLAN — NORTH



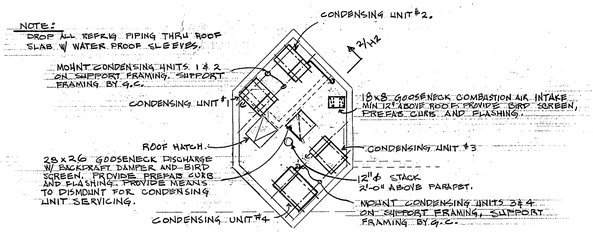
UPPER LEVEL HEATING FLOOR PLAN — NORTH

1/8"=1'-0"



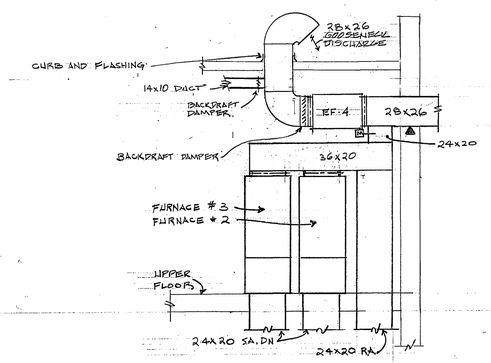
SECTION 1/H-2

1/2"=1'-0"



PARAPET ROOF PLAN — NORTH

1/8"=1'-0"



SECTION 3/H-2

1/4"=1'-0"

FAN SCHEDULE

SYM.	SERVICE	CFM	MFGR	TOTAL STATIC IN H_2O	MOTOR H.P.	DRIVE	MODEL	VIB. ISOLATOR TYPE	VIB. ISOLATOR MIN. STATIC DEFLEC.	CURB	REMARKS
E.F.-1	TOILET	80	BROAN	1/8"	—	DIRECT	315	—	—	—	W/ GRAV. WALL CAP
EF-2	TOILET	120	BROAN	1/8"	—	DIRECT	317	—	—	—	W/ GRAV. WALL CAP
EF-3	ELEV EQUIP RM.	180	BROAN	1/8"	—	DIRECT	319	—	—	—	CEIL MOUNTED W/ GRAV WALL CAP.
EF-4	ATRIUM VENTIL.	4000	GREENHECK	3/8"	1½"	BELT	SQB-18-15	D *	1"	-	CEIL HUNG
EF-5.	MULTI-PURPOSE EXH	500	GREENHECK	½"	1/8	DIRECT	SQD-9-A	D *	1"	—	CEIL HUNG

*VIBRATION ISOLATORS EQUAL TO MASON INDUSTRIES TYPE "D"

AIR OUTLET SCHEDULE

MARK	MANUF.	MODEL	TYPE	SIZE	REMARKS
SR-1	TITUS	272-FL5	SIDE WALL	SEE DWGS	W/ DAMPER
SR-2	TITUS	CMT-1500-4"	SILL	SEE DWGS	W/ 3/4" BORDER & DAMPER
RR-1	TITUS	23-RL5	CEILING	SEE DWGS	W/ DAMPER
RR-2	TITUS	50-FS	SIDE WALL	SEE DWGS	W/ DAMPER
BB-1	LEIGH	STANDARD THERMO-BASE	BASE BOARD	SEE DWGS	W/ DAMPER

FURNACE SCHEDULE

		FURNACE #1	FURNACE #2	FURNACE #3	FURNACE #4
FURNACE — FAN DATA	MFGR.	LENNOX	LENNOX	LENNOX	LENNOX
	MODEL	G10RQ3-110V	G10RQ5-165V	G10RQ5-165V	G81-165V.
	AIR FLOW (CFM)	1200	2400	2400	2800
	EXT. STATIC PRESS (IN WG)	0.5	0.375	0.375	0.375
	MOTOR H.P.	1/3	3/4	3/4	1
	% O.A.	8%	6%	6%	10%
	ELECT. SERVICE	120V/60/1⊄	120V/60/1⊄	120V/60/1⊄	120V/60/1⊄
	AIR FLOW DIRECTION	DOWN FLOW	DOWN FLOW	DOWN FLOW	UP FLOW
FURNACE — HTG DATA	AIR IN (°F)	60	60	60	60
	AIR OUT (°F)	110	110	110	110
	BURNER INPUT (MBH)	110	165	165	165
	GAS PRESSURE (W.C.)	6"	6"	6"	6"
	BASE BID/ALT BID	BASE	BASE	BASE	BASE
DX COIL — COOLING DATA	MODEL	CR4-411V	CR4-651V	CR4-651V	C2-B1V
	AIR IN	80/67	80/67	80/67	80/67
	LOAD (MBH)	35.3	58.5	58.5	77.2
	COOLING AREA (FT^2)	4.75	5.2	5.2	6.35
	FACE VELOCITY (FPM)	240	460	460	440
	BASE BID/ALT BID	BASE	ALT	ALT	BASE
CONDENSING UNIT	MODEL	H510-411V	H510-653V	H510-653V	H5G-B13V
	REFRIGERANT	22	22	22	22
	LOAD (MBH)	35.3	58.5	58.5	77.2
	AMBIENT TEMP	95	95	95	95
	ELECT SERVICE	208/60/1⊄	208/60/3⊄	208/60/3⊄	208/60/3⊄
	FLA	19.3	22.4	22.4	28.1
	LRA	97.0	132.3	132.3	129
	BASE BID/ALT BID	BASE	ALT.	ALT.	BASE

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UPPER LEVEL HEATING FLOOR PLAN; SCHEDULES & DETAILS

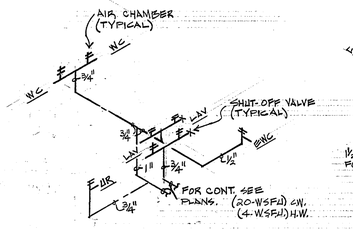
H-2.

8:31:76

AIR CHAMBER SCHEDULE	
DIA. PIPE	AIR CHAMBER SIZE
½"	½" x 1" x 14"
¾"	½" x 1½" x 18"
1"	¾" x 1½" x 30"
FOR LARGER PIPING SEE CODE	

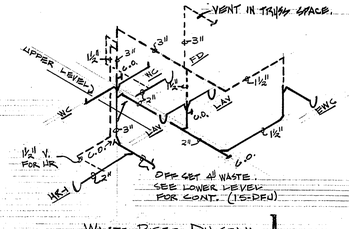
PLUMBING SYMBOL LIST

———	COLD WATER (C.W.)
- - - -	HOT WATER (H.W.)
———	SANITARY BLDG. DRAIN (BELOW FLR)
———	SANITARY DRAIN (ABOVE FLR)
- - - -	VENT LINE (ABOVE FLR)
———	VENT LINE (BELOW FLR)
——⋈——	BALL VALVE
——▽——	GAS COCK
——G——	GAS PIPING
D.F.U.	DRAINAGE FIXTURE UNITS
W.S.F.U.	WATER SUPPLY FIXTURE UNITS
SAN.	SANITARY
V	VENT
V.T.R.	VENT THRU ROOF
V.B.	VACUUM BREAKER
H.B.	HOSE BIBB
W.H.	WALL HYDRANT
C.O.	CLEAN OUT
L	LAVATORY
S	SINK
W.C.	WATER CLOSET
B.T.	BATH TUB
L.T.	LAUNDRY TRAY
H.C.	HEATING CONTRACTOR
P.C.	PLUMBING CONTRACTOR
U.R.	URINAL
E.W.C.	ELECTRIC WATER COOLER



WATER SUPPLY RISER DIAGRAM 1

N.T.S.

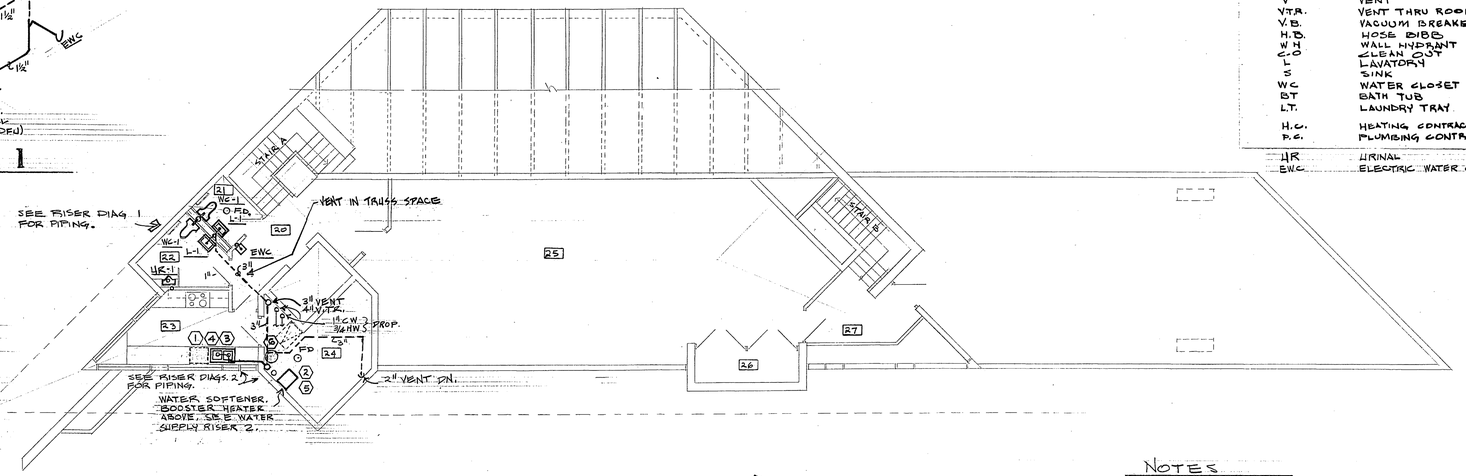


WASTE RISER DIAGRAM 1

N.T.S.

PLUMBING EQUIPMENT

ITEM	EQUIPMENT FURNISHED BY	PLUMBING CONNECTIONS WASTE	VENT	COLD	HOT	CONTRACT
① DISHWASHER	P.C.	2"	1½"	–	2-¾"	ALT. BID
② BOOSTER HEATER	P.C.	–	–	–	2-¾"	ALT. BID
③ SINK (S-2)	P.C.	1½"	1½"	½"	½"	ALT. BID
④ DISPOSAL	P.C.	1½"	1½"	–	–	ALT. BID
⑤ WATER SOFTENER	P.C.	–	–	¾"	–	ALT. BID
⑥ WATER HEATER	P.C.	–	–	¾"	¾"	BASE BID.



UPPER LEVEL PLUMBING PLAN

1/8" = 1'-0"

NORTH

NOTES

1. RELOCATE EXISTING WALL HUNG W.C. WITH FLUSH VALVE. INSTALL NEW CHAIR CARRIER, IF REQ'D, EQUAL TO JOSAM UNITRON. ROUGH-IN W.C. WITH 1¼" C.W. SUPPLY TO CONCEALED FLUSH VALVE, 3" WASTE & 2" VENT. CONNECT TO EXISTING SERVICES. RECONDITION FIXTURE & TRIM AS REQ'D.
2. INSTALL VACUUM BREAKERS ON ALL EXISTING HOSE BIBBS. (4 REQ'D). VACUUM BREAKER EQUAL TO NIDEL 34 H-1W WITH ¾" MALE HOSE THREAD. EXISTING HOSE BIBBS LOCATED IN EXISTING GREENHOUSE & HOSE BIBBS LOCATED ON EXTERIOR WALLS. SEE SITE PLAN AND PLUMBING PLANS FOR LOCATIONS.
3. REMOVE EXISTING HOSE BIBB AND PIPING. CAP BRANCH PIPING AT MAIN.
4. INSTALL NEW WALL HYDRANT WITH VACUUM BREAKER. LOCATE 2'-0" ABOVE GRADE. PROVIDE VALVE FOR EACH BRANCH.
5. CONNECT SINK WASTE TO EXISTING BUILDING DRAIN. RUN NEW VENT THRU ROOF. CUTTING AND PATCHING OF FLOOR AND ROOF BY P.C.
6. NEW WATER HEATER TYPE #2 MOUNTED ON ANGLE IRON PLATFORM NEAR C&L. RUN ¾" C.W. BRANCH TO HEATER & ¾" H.W. BRANCH FROM HEATER TO SINK, VALVE EACH BRANCH.
7. NEW WATER HEATER TYPE #1 MOUNTED ON ANGLE IRON PLATFORM NEAR C&L IN CHASE. CONNECT TO EXISTING C.W. PIPING IN CHASE AND RUN NEW ¾" C.W. BRANCH TO HEATER. RUN NEW ¾" H.W. PIPING FROM HEATER AND CONNECT TO LAVS. (L-2). VALVE EACH BRANCH TO WATER HEATER.
8. RUN F.D. WASTE IN RM. 03 ABOVE UNDERFLOOR HEATING DUCTWORK. COORD. RUNS WITH H.C.
9. PROVIDE 2" WATER LINE W/ INTERIOR VALVE FROM EXISTING WATER SERVICE TO A PNT. 5'-0" FROM BUILDING.

WASTE RISER DIAGRAM 2

N.T.S.

NOTE:
PIPE SOFTENER BACKWASH AND WATER HEATER RELIEF TO FLOOR DRAIN.
MOUNT WATER HEATER ② ON ANGLE IRON PLATFORM ABOVE SOFTENER. ANCHOR PLATFORM TO WALL.

WATER SUPPLY RISER DIAGRAM 2

N.T.S.

LOWER LEVEL PLUMBING PLAN

1/8" = 1'-0"

NORTH

WISCONSIN
WILLIAM F. SHARP
E 13295
Madison, Wis.
PROFESSIONAL ENGINEER

William F. Sharp

ARNOLD & O'SHERIDAN, INC.
CONSULTING ENGINEERS
815 FORWARD DRIVE
MADISON, WISC. 53711 8/31/76

STUART WILLIAM GALLAHER, ARCHITECT, INC.
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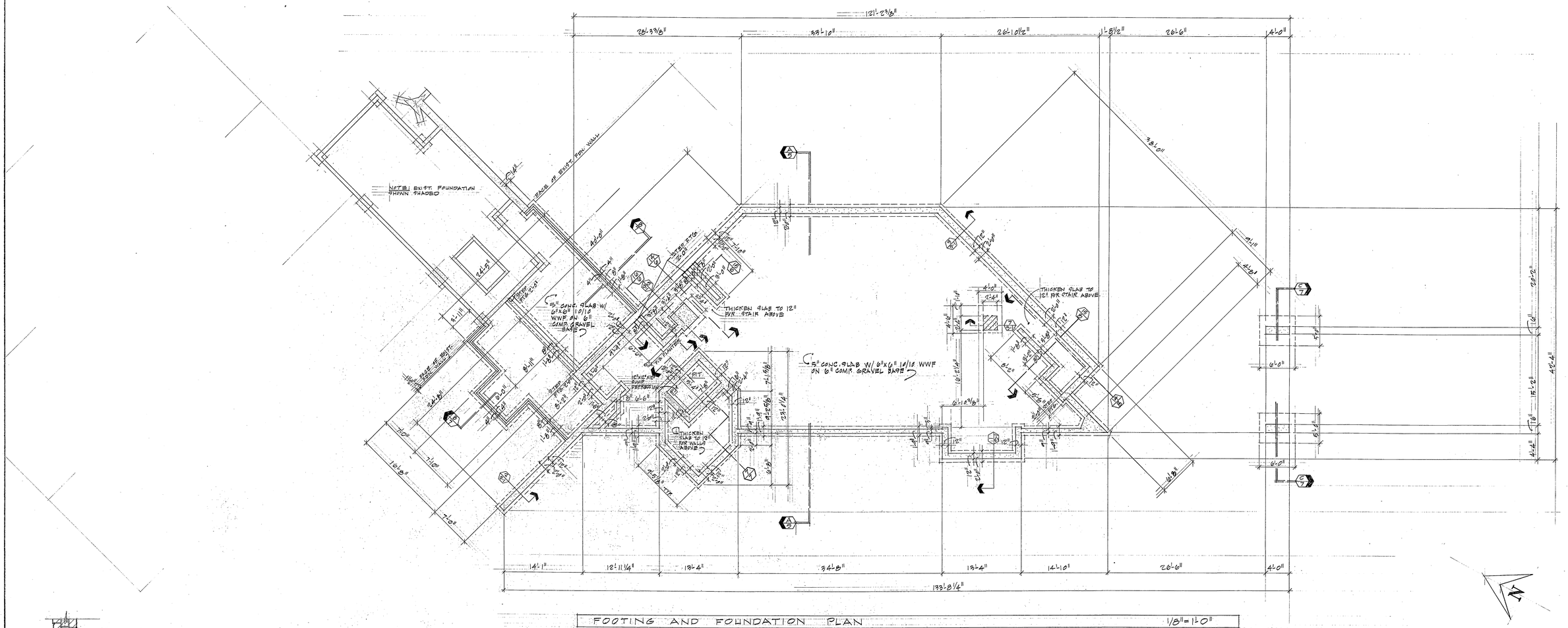
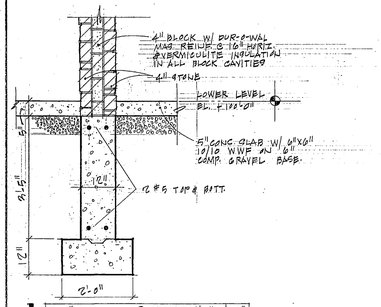
UPPER LEVEL PLUMBING PLAN; LOWER LEVEL PLUMBING PLAN; SCHEDULES; DTLS.

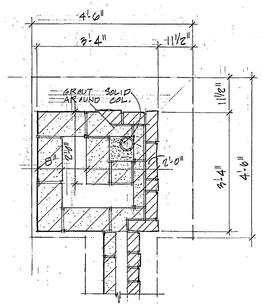
P-1.



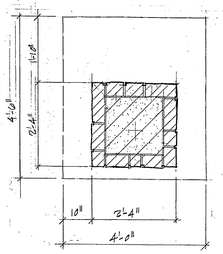
FOOTING AND FOUNDATION PLAN 1/8"=1'-0"



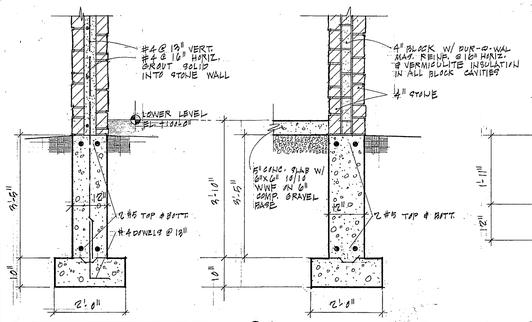
1. 12" WALL @ S.W. 1/2"=1'-0"



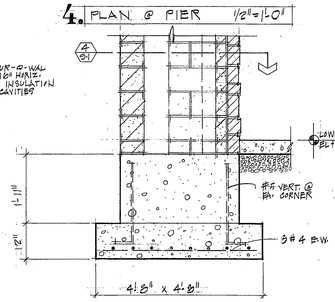
4. PLAN @ PIER 1/2"=1'-0"



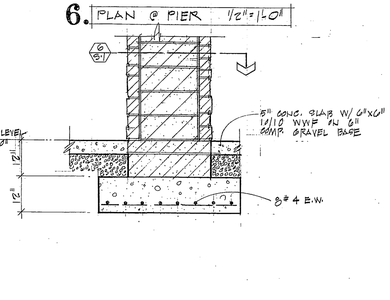
6. PLAN @ PIER 1/2"=1'-0"



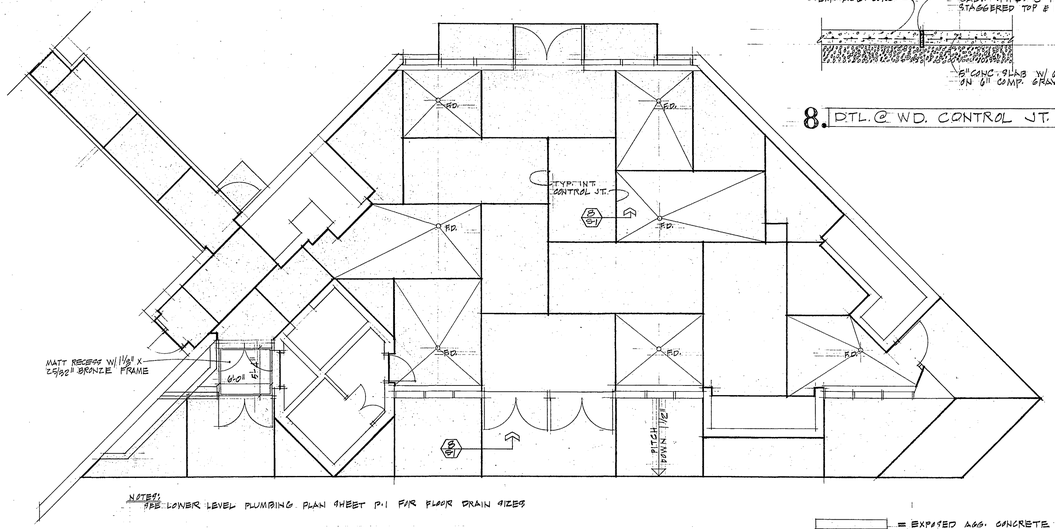
2. 12" WING WALL 1/2"=1'-0" 3. 12" WALL @ S.E. & N.W. 1/2"=1'-0"



5. PIER @ STAIR "A" 1/2"=1'-0"



7. PIER @ S.E. 1/2"=1'-0"



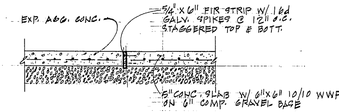
NOTE: SEE LOWER LEVEL PLUMBING PLAN SHEET P-1 FOR FLOOR DRAIN SIZES

= EXPOSED AGG. CONCRETE.

EXPOSED AGGREGATE SHALL BE #1 THRU #5 EVEN GRADED MISSISSIPPI STONE. MISSISSIPPI STONE SHALL BE DISTRIBUTED AND EXPOSED IN THE QUANTITY OF THREE-5 GAL. PAILS PER 100 SQ. FT. OF EXPOSED AGGREGATE CONCRETE. SEAL WITH HYDRATED SPECIAL LIGHT AS PER MANUFACTURERS INSTRUCTIONS.

LOWER LEVEL CONCRETE FLOOR PATTERN PLAN 1/8"=1'-0"

8. DTL. @ W.D. CONTROL JT. 1/2"=1'-0"



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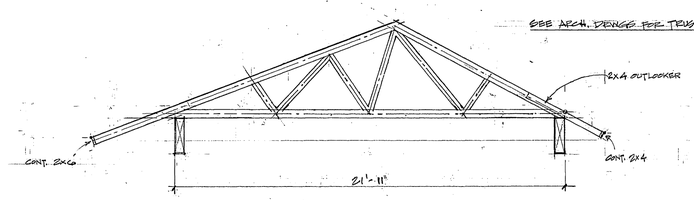
FOOTING AND FOUNDATION PLAN; DETAILS
LOWER LEVEL CONCRETE FLOOR PATTERN PLAN

S-1.

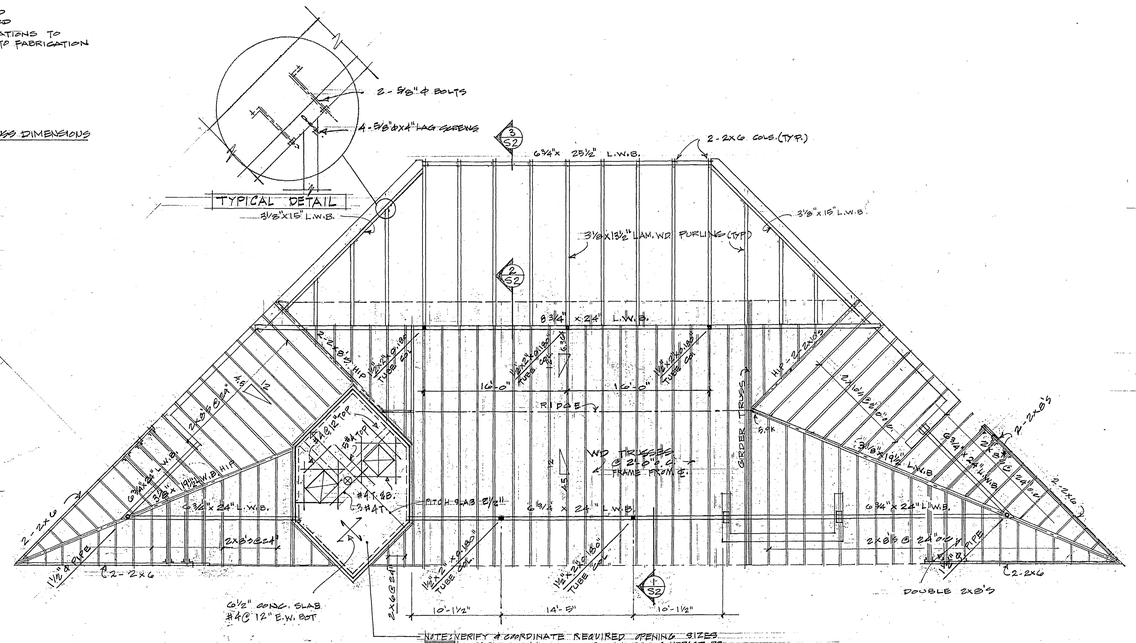
8.31.76

TRUSS LOADING: 7# PLF TOP CHORD
14 PLF BOT. CHORD
SUBMIT SHOP DRAWINGS & CALCULATIONS TO ARCHITECT & D.I.L.H.I.R. PRIOR TO FABRICATION

SEE ARCH. DRWGS FOR TRUSS DIMENSIONS

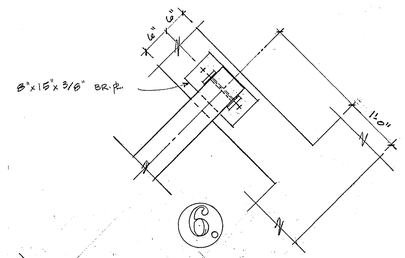


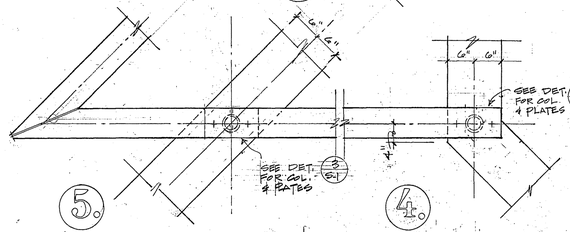
TYP. ROOF TRUSS
SCALE: 1/4" = 1'-0"

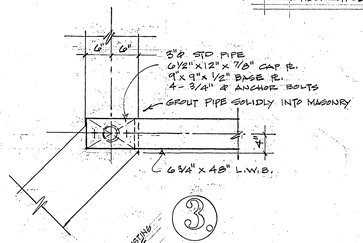


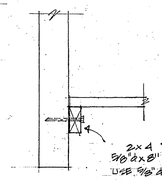
ROOF FRAMING PLAN
1/8" = 1'-0"

NOTE: ALL ROOF FRAMING MEMBERS @ 2:1 PIT. LAMINATED COPPER ROOF PANELS. SPACE FROM WOOD TRUSS @ 2 IF REQ.









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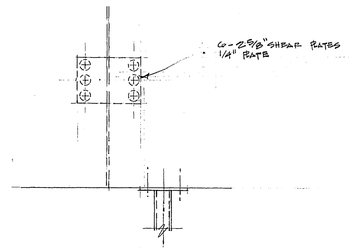
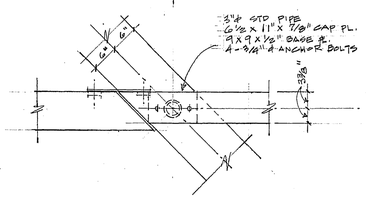
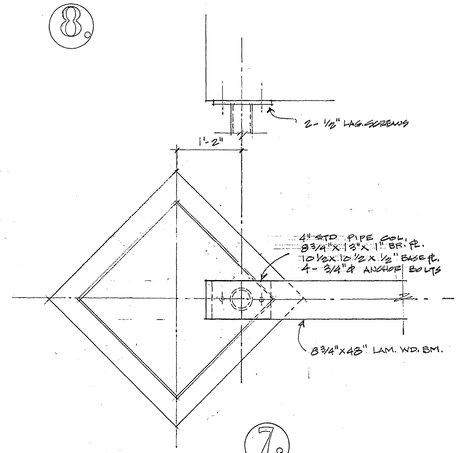




8.



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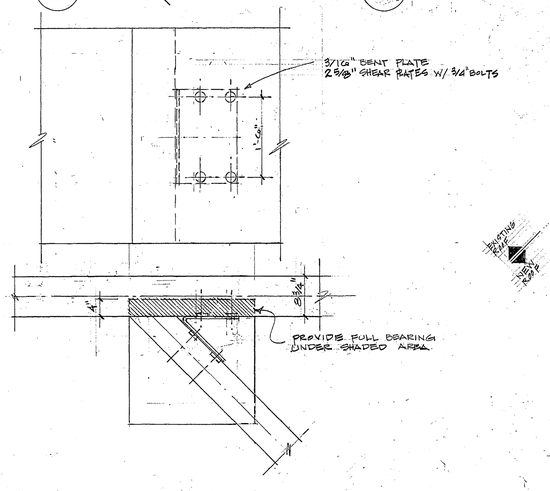

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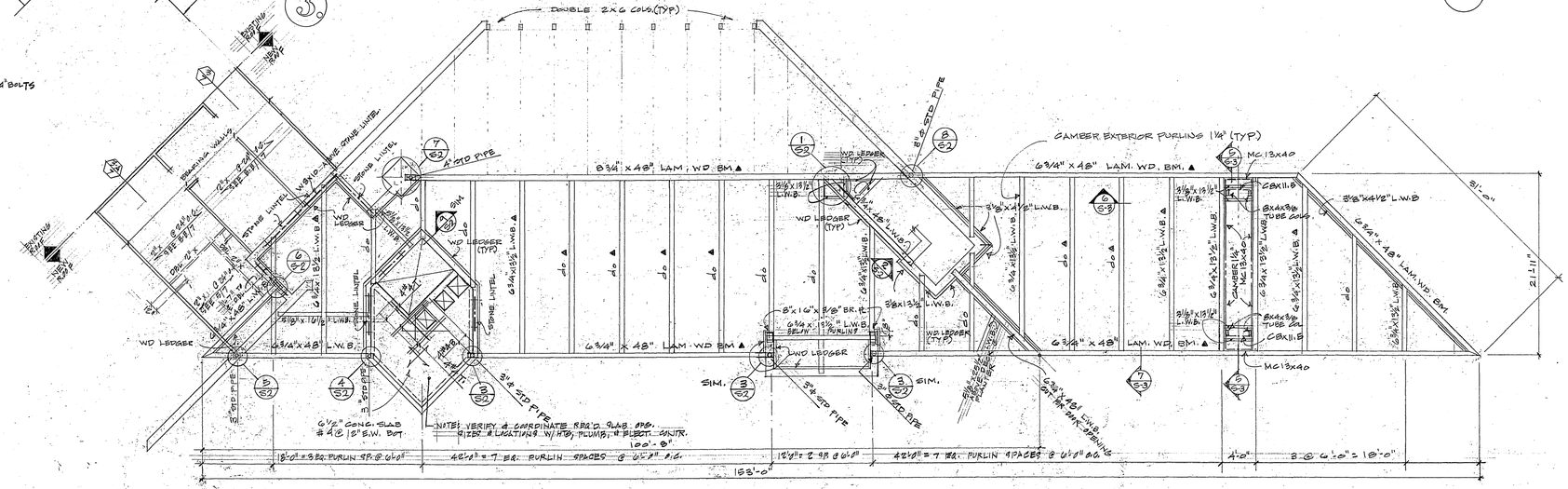


FLOOR FRAMING PLAN
1/8"= 1'-0"

DESIGN LOADS		DESIGN STRESSES	
LIVE LOAD (BALCONY)	= 100 PSF	CONCRETE f'c =	3000 PSI
" " INTER. FLOORS	= 80 PSF	STRUCT. STEEL Fy =	36000 PSI
" " STAIRS	= 100 PSF	REINF. STEEL Fy =	60000 PSI
ROOF LIVE LOAD	= 30 PSF	LAM. WD:	
WIND LOAD	= 20 PSF	WHERE INDICATED ▲	fb = 2400 psi
MAX. SOIL PRESSURE	= 4000 PSF	ALL OTHERS	fb = 2200 PSI

ARNOLD & O'SHERIDAN, INC.
CONSULTING ENGINEERS
815 FORWARD DRIVE
MADISON, WISC. 53711

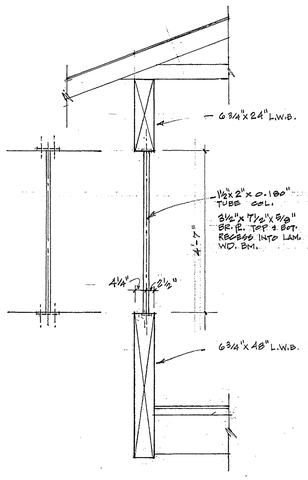
8.31.76

STUART WILLIAM GALLAHER, ARCHITECT, INC.
702 NORTH BLACKHAWK AVENUE • MADISON, WISCONSIN

OLBRICH GARDEN CENTER COMPLEX
MADISON BOARD OF PARK COMMISSIONERS • MADISON • WISCONSIN

ROOF FRAMING PLAN, FLOOR FRAMING PLAN, DETAILS

S-2.



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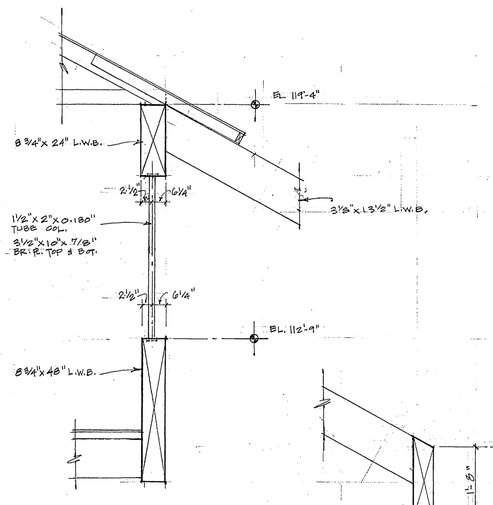

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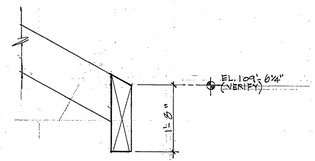

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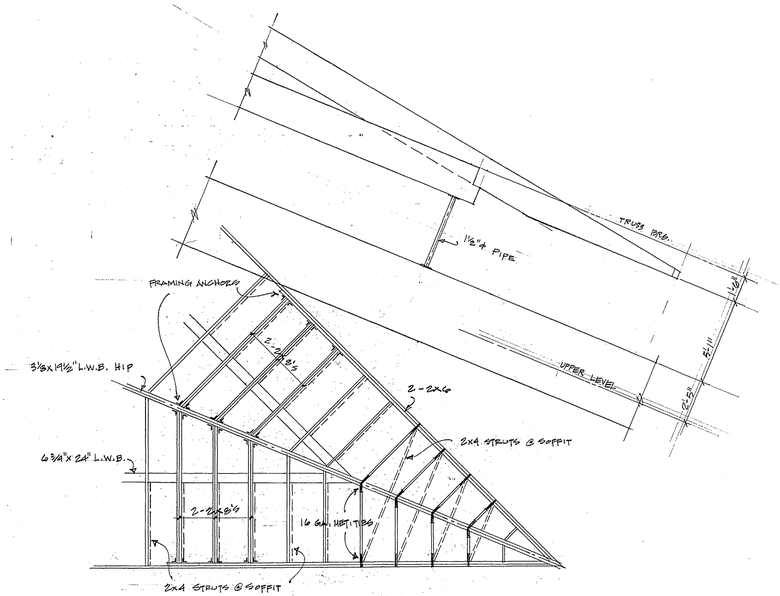
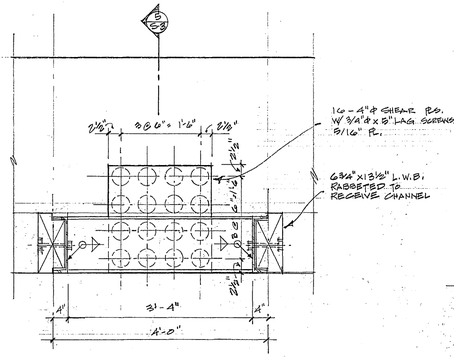


8. ROOF CORNER FRAMING
SCALE: ¼"=1'-0"



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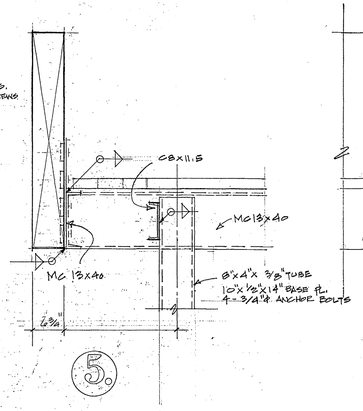

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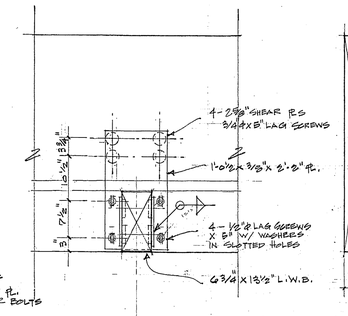

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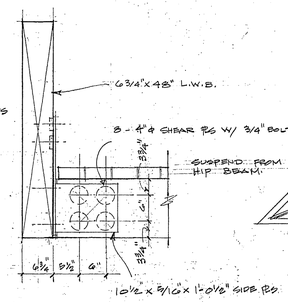

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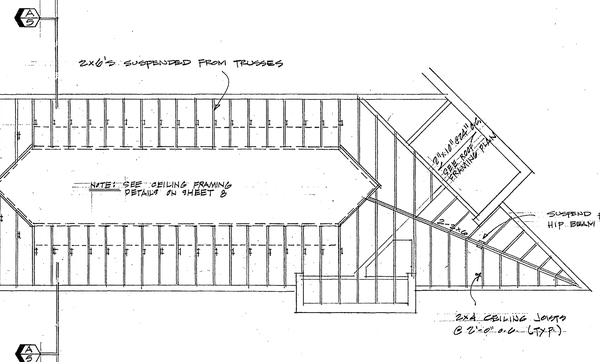

CEILING FRAMING
SCALE: 1/8"=1'-0"

STUART WILLIAM GALLAHER, ARCHITECT, INC.
702 NORTH BLACKHAWK AVENUE • MADISON, WISCONSIN

OLBRICH GARDEN CENTER COMPLEX
MADISON BOARD OF PARK COMMISSIONERS • MADISON • WISCONSIN

CEILING FRAMING; DETAILS

8.31.76

ARNOLD & O'SHERIDAN, INC.
CONSULTING ENGINEERS
615 FORWARD DRIVE
MADISON, WISC. 53711

S-3.

SHEET INDEX

1. SITE PLAN • SITE PLAN LEGEND •
2. SOUTH ELEVATION • SOUTHWEST ELEVATION •
3. EAST ELEVATION • NORTHEAST ELEVATION • NORTHWEST ELEVATION •
4. COMPLEX FLOOR PLAN •
5. REFLECTED CEILING PLAN •
6. ROOF PLAN •
7. ROOM FINISH SCHEDULE • TYPICAL WALL TYPES •
8. DOOR HARDWARE SCHEDULE • DOOR SCHEDULE • DOOR TYPES •
9. SPECIFICATIONS • WINDOW SCHEDULE •
10. COURTYARD ELEVATIONS & 1/8" BUILDING SECTIONS •
11. 1/8" BUILDING SECTIONS •
12. COVERED ENTRANCE WALK - ROOF FRAMING PLAN, EAVE DTL., 1/4" SECTION • 1/2" RAMPED CORRIDOR & FOYER SECTIONS •
13. 1/2" WALL SECTIONS & CORRIDOR (14), CLERESTORY, MULTI-PURPOSE RM. & WORKROOM • CATWALK DTL. & MULTI-PURPOSE RM. •
14. MISC. ROOF & EAVE DTLS. @ HEADHOUSE, CONSERVATORY & MECH. RM. • 1/2" WALL SECTION @ HEADHOUSE, CONSERVATORY, BOILER RM., & DIRECTRICOFF •

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F-2. PARTIAL FLOOR PLAN & VESTIBULE (9) • 1/4" SECTIONS THRU VEST (9) • MISC. WINDOW & DOOR SILL, JAMB, & HEAD DETAILS & VESTIBULE (9) •
F-3. MISCELLANEOUS DETAILS •
F-4. WINDOW SILL, HEAD, & EAVE DTLS. & RAMPED CORRIDOR (3) • MISCELLANEOUS SILL, JAMB, HEAD, & EAVE DETAILS •
F-5. 1/2" SECTIONS & COVERED WALK & VESTIBULE (1) • ROLL-UP GRILLE HEAD & JAMB DETAILS • DISPLAY CASE DETAILS •
F-6. 1/4" INTERIOR ELEVATIONS / SECTIONS @ FOYER & VESTIBULE (1), RECEPTION AREA, & VESTIBULE (9) •
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F-8. MISCELLANEOUS DETAILS & LOW CONSERVATORY WALL • MISC. SKYLIGHT GLAZING DETAILS • SKYLIGHT GLAZING NOTES & SPECIFICATIONS •
F-9. 1/4" INTERIOR ELEVATIONS / SECTIONS & LINTEL DTL. & RAMPED CORR. (3) • INTERIOR ELEVATIONS @ LIBRARY & GIFT SHOP • MISCELLANEOUS DTLS •
F-10 GIFT SHOP SALES COUNTER & RECEPTION DESK DETAILS •

MP-1. PARTIAL FLOOR PLAN & CORRIDOR (14) • TOILET RM. & CORRIDOR (14) INTERIOR ELEVATIONS • WALK-IN COOLER ~ AIRSPACE CLOSURE DTL.
MP-2. MISC. DETAILS @ MULTI-PURPOSE RM. • CLERESTORY HEAD, SILL & MULLION DTL. • MISC. HEAD, JAMB, MULLION, & OTHER DETAILS •
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MP-4. PARTIAL MULTI-PURPOSE RM. REFLECTED CLG. PLAN • REFLECTED CLG. PLAN @ PARTITION STORAGE • SECTION DTLS. THRU TRANSLUCENT PANELS •
MP-5. MISCELLANEOUS LAMINATED WOOD BEAM (L.W.B.) & PARTITION DETAILS @ MULTI-PURPOSE ROOM •

C-1. CONSERVATORY - FIRST FLOOR PLAN •
C-2. CONSERVATORY - UPPER LEVEL FLOOR PLAN • CONSERVATORY SPECIFICATIONS & GENERAL NOTES •
C-3. CONSERVATORY - REFLECTED CEILING PLAN •
C-4. 1/8" BUILDING SECTIONS THRU CONSERVATORY •
C-5. 1/8" BUILDING SECTIONS THRU CONSERVATORY •
C-6. CONSERVATORY GLAZING DETAILS & SPECIFICATIONS •
C-7. CONSERVATORY STAIR & CUPOLA DETAILS •

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HH-2. HEADHOUSE EXTERIOR WALL DETAILS • VALLEY & HIP DETAILS • STONE & CONCRETE SILL DETAILS •
HH-3. SOUTHWEST HEADHOUSE SIDEWALL DETAIL KEY • SOUTHWEST HEADHOUSE SIDEWALL DETAILS •
HH-4. MEZZANINE FLOOR PLAN • MEZZANINE SECTION • DETAILS • ROOF SCUTTLE DETAIL • RIDGE TRANSITION DTLS. & PAD ROOM CONN. (N.I.C.) & HEADHOUSE •

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G-2. NORTHWEST HEADHOUSE ELEVATION & 1/8" SECTION THRU I: PAD ROOM CONNECTOR • GRNHSE. FOOTING & GUTTER AND WALL DTL. •
G-3. 1/2" SECTION THRU GREENHOUSE VESTIBULE • MISCELLANEOUS WALL SECTION DETAILS @ GREENHOUSE VESTIBULES •
G-4. MISCELLANEOUS GREENHOUSE DETAILS •
G-5. GREENHOUSE WALL SECTIONS • MISC. DETAILS • SECTION THRU GREENHOUSE CONNECTOR • EAVE / GUTTER DETAILS •
G-6. RIDGE VENT DTLS. - GREENHOUSE I & II • VENTED ROOF GLAZING DTLS. - GREENHOUSE I & II • FIXED ROOF GLAZING DTLS. - GREENHOUSE I & II •

NOTE: G-3, 4, 5, & 6 NOT IN CONTRACT

V O I D
ORIGINAL DESIGN
NOT AS BUILT
AUGUST 1, 1992

S-1. FOUNDATION PLAN / MAIN BUILDING •
S-2. FOUNDATION PLAN / GREENHOUSE & DETAILS •
S-3. FOUNDATION PLAN / CONSERVATORY & DETAILS •
S-4. MEZZANINE FRAMING PLAN / CONSERVATORY & DETAILS •
S-5. ROOF FRAMING PLAN / MAIN BUILDING •
S-6. ROOF FRAMING PLAN / CONSERVATORY •
S-7. DETAILS / MAIN BUILDING •
S-8. MECH. ROOM FLOOR FRAMING & DETAILS •
S-9. DETAILS •
S-10. DETAILS / CONSERVATORY •

E-1. COMPLEX FLOOR PLAN - LIGHTING •
E-2. COMPLEX FLOOR PLAN - POWER •
E-3. FIRST FLOOR CONSERVATORY - LIGHTING •
E-4. FIRST FLOOR CONSERVATORY - POWER •
E-5. UPPER LEVEL CONSERVATORY - LIGHTING •
E-6. UPPER LEVEL CONSERVATORY - POWER •
E-7. GREENHOUSE FLOOR PLAN - LIGHTING •
E-8. GREENHOUSE FLOOR PLAN - POWER •
E-9. EXISTING BUILDING, UPPER MECHANICAL ROOM, SITE LIGHTING •
E-10. ELECTRICAL RISER DIAGRAM, PANEL SCHEDULES •
E-11. SCHEDULES •
E-12. DETAILS •

H-1. COMPLEX FLOOR PLAN / AIR DISTRIBUTION •
H-2. COMPLEX FLOOR PLAN / HEATING PIPING •
H-3. CONSERVATORY UPPER LEVEL / HEATING & VENTILATION •
H-4. CONSERVATORY FIRST FLOOR / HEATING & VENTILATION •
H-5. GREENHOUSE FLOOR PLAN / HEATING •
H-6. MECHANICAL ROOM FLOOR PLAN - SECTIONS & DETAILS •
H-7. BOILER ROOM FLOOR PLAN, MECHANICAL ROOM ROOF PLAN, GREENHOUSE RISER DIAGRAMS - HEATING •
H-8. SCHEDULES & DETAILS •
H-9. SECTIONS & DETAILS • CONSERVATORY WALL FIN PIPING RISER DIAGRAM •

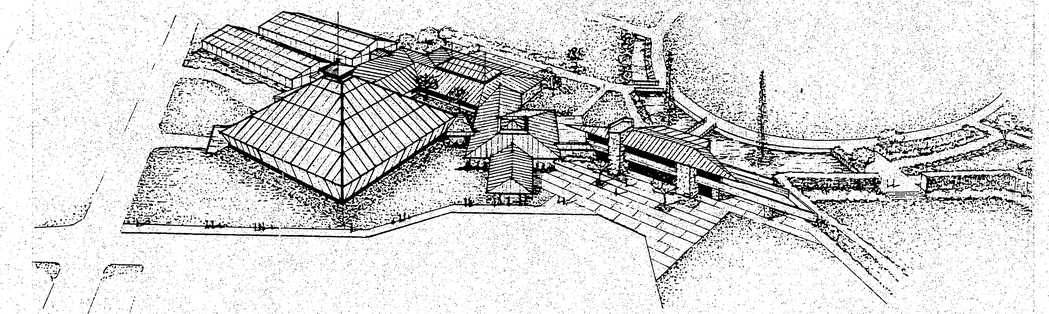
P-1. SITE DRAINAGE PLAN • CATCH BASIN DATA TABLE • SITE DRAINAGE DETAILS •
P-2. MAIN COMPLEX - PLUMBING FLOOR PLAN • PLUMBING SYMBOLS •
P-3. MAIN SUPPLY RISER DIAGRAM • MAIN WASTE & VENT RISER DIAGRAM • UPPER MECH. RM. PLBG. FLOOR PLAN • PLUMBING DETAILS •
P-4. ENLARGED PLUMBING FLOOR PLANS • RISER DIAGRAMS FOR ENLARGED FLOOR PLANS •
P-5. CONSERVATORY DRAINAGE PLANS • DRAINAGE DETAILS •
P-6. CONSERVATORY PLUMBING FLOOR PLANS • ENLARGED MECHANICAL RM. PLUMBING SUPPLY PLAN • CONSERVATORY PLUMBING DETAILS •
P-7. CONSERVATORY RISER DIAGRAMS • MISTER SYSTEM PLANS • MISTER SYSTEM RISER DIAGRAM • DETAILS •
P-8. GREENHOUSES - PLUMBING FLOOR PLAN • WASTE, VENT & SUPPLY RISER DIAGRAMS • PLUMBING DETAILS •
P-9. PLUMBING FIXTURE & CONNECTION SCHEDULES • PLUMBING PIPE MARKING SCHEDULE • WATER FALL RISER DIAGRAM • DETAILS •
P-10. PLUMBING SPECIFICATIONS AND REQUIREMENTS •

NOTE: THE FOLLOWING SHEETS WERE ADDED DURING CONSTRUCTION OR AS "AS-BUILTS"

15. ADDITIONAL DETAILS RELEASED DURING CONSTRUCTION
16. ADDITIONAL DETAILS RELEASED DURING CONSTRUCTION
F-11. GIFT SHOP ~ COUNTER, CABINET, & SHELVING PLANS • WALL ELEVATIONS • DETAILS • SPECIFICATIONS
C-8. CONSERVATORY BRIDGE PLAN • DETAILS • BRIDGE SPECIFICATIONS
G-7. FOOTING & FOUNDATION PLAN & DETAILS FOR AS DESIGNED GREENHOUSE
H-10. AS-BUILT HEATING PLANS FOR GREEN HOUSE

P-11. FERTILIZER & M (70°) REPIPING PLANS • RISER DIAGRAM • DETAILS • SPECIFICATIONS
P-12. REVERSE OSMOSIS PLUMBING PLAN • DETAILS

THIS SET DOES NOT CONTAIN AS-BUILT PLANS OR DETAILS OF THE GREENHOUSES.



OLBRICH BOTANICAL COMPLEX & CONSERVATORY

3330 Atwood Avenue, Madison, Wisconsin

STUART WILLIAM GALLAHER, ARCHITECT, INC.
702 North Blackhawk Avenue
Madison, Wisconsin 53705 (608)238 0991

Key to Drawing Symbols

1,2,3,etc. = General Plan, Elevation, & Section Drawings
F = Foyer Area Drawings
MP = Multi-Purpose Area Drawings
C = Conservatory Area Drawings
HH = Headhouse Area Drawings
G = Greenhouse Area Drawings
S = Structural Drawings
E = Electrical Drawings
H = Heating, Ventilating, & Air Conditioning Drawings
P = Plumbing Drawings

- 1 / ℄ — CENTERLINE OF COLUMN GRID / COLUMN IDENTIFICATION NUMBER / LETTER
- 3/S2 / 3 — BUILDING SECTION OR WALL SECTION LETTER / NUMBER / SHEET WHERE SECTION IS SHOWN
- HH 1/S2 — DETAIL NUMBER / SHEET WHERE DETAIL IS SHOWN
- MP 2/S2 — INTERIOR ELEVATION NUMBER / SHEET WHERE INTERIOR ELEVATION IS SHOWN
- 4 — WALL TYPE DETAIL NUMBER / SHEET WHERE WALL TYPE DETAIL IS SHOWN
- FOYER / 2 — ROOM NAME / ROOM NUMBER
- #1 — WINDOW IDENTIFICATION NUMBER / ROOM/AREA WHERE WINDOW IS LOCATED
- HH#1 — DOOR IDENTIFICATION NUMBER / ROOM/AREA WHERE DOOR IS LOCATED
- 1 — DOOR HARDWARE SET NUMBER (SEE SHEET #8)
- 1 — DOOR / ROOM FINISH / WINDOW SCHED. REMARKS (SEE SHEET #7, 8, & 9.)
- T.O.F.F. = TOP OF FINISH FLOOR

NOTE: SEE SITE PLAN LEGEND SHEET #1. FOR SITE PLAN SYMBOLS

AS BUILT
AUGUST 1, 1992

SITE PLAN LEGEND:

- NEW BOTANICAL COMPLEX
- EXISTING BUILDINGS (TO REMAIN)
- O 3/4" I.R. — 5/8" Ø DIA. IRON ROD
- —— x —— CONSTRUCTION LIMITS
- —— 6" CURB
- L.O PP. — PARKING LOT LIGHT/POWER POLE
- PL. — PLANTER
- O M.H. — MANHOLE
- —— 5.33 —— FINISH CONTOUR GRADE ELEVATION
- — 5.0 — EXIST. CONTOURS TO BE ALTERED
- TC 7.0 / BC 6.5 — TOP OF NEW CURB / BOTTOM OF NEW CURB
- —— G —— EXIST. GAS (MG&E) (TO REMAIN)
- —— N.G. —— NEW GAS (MG&E)
- —— P.G. —— EXIST. PARK GAS (TO REMAIN)
- —— N.P.G. —— NEW PARK GAS
- —— N.O.E. —— NEW OVER HEAD ELECTRIC (MG&E)
- —— O.E. —— EXIST. OVERHEAD ELECTRIC (MG&E) (TO REMAIN)
- —— E. —— EXIST. ELECTRIC (MG&E) (TO REMAIN)
- —— N.E. —— NEW ELECTRIC (MG&E)
- —— P.E. —— EXIST. PARK ELECTRIC (TO REMAIN)
- —— N.P.E. —— NEW PARK ELECTRIC
- —— N.U.E. —— NEW UNDERGROUND ELECTRIC (MG&E)
- —— N.O.P.E. —— NEW OVERHEAD PARK ELECTRIC
- —— C.T. —— EXIST. OVERHEAD TELEPHONE (WIS. BELL) (TO REMAIN)
- —— N.C.T. —— NEW OVER HEAD TELEPHONE (WIS BELL)
- —— T —— EXIST. TELEPHONE (WIS. BELL) (TO REMAIN)
- —— N.T. —— NEW TELEPHONE (WIS. BELL)
- —— SAN. —— EXIST. SANITARY (TO REMAIN)
- —— N. SAN. —— NEW SANITARY
- ==ST.== EXIST. LARGE DIA. STORM (TO REMAIN)
- ==N.ST.== NEW LARGE DIA. STORM
- —— S.T. —— EXIST. SMALL DIA. STORM (TO REMAIN)
- —— N.S.T. —— NEW SMALL DIA. STORM
- —— W —— EXIST. WATER (TO REMAIN)
- —— N.W. —— NEW WATER
- △ V. — WATER VALVE BOX
- C.O. O —— CLEANOUT
- C.B. □ — EXISTING CATCH BASIN
- C.B. ◎ — NEW CATCH BASIN

EXISTING PARK ELECTRIC TO IRRIGATION PUMP HOUSE

EXISTING ROSE GARDEN

N.G.T.R.
SEE SHT. P-1 FOR SITE DRAINAGE PLAN AND DETAILS.

NEW OLBRICH BOTANICAL COMPLEX
FIN. FLR. EL. = 8.5' (SITE PLAN ONLY)
FIN. FLR. EL. = 100.0' (ALL OTHER SHEETS)

FUTURE GREEN HOUSE

NEW TRANSFORMER & CONC. PAD (BY MG&E)

DUMPSTER ENCLOSURE (SEE L.O.)

BENCH MARK
RIM 5.98 (+)
I.E. 1.89 (-)

4"x15'-0" PVC CAP FOR FUTURE USE

COURTYARD

DOWN TO 8" PVC LEADER
LEADER I.E. = 3.96'

RETNG. WALL

8" ADS. PIPE IN BERM SEE DTL. #2, SHT. P-1

4'-8" TRANSITION SIDEWALK

EXISTING CHIMNEY TO REMAIN

EXISTING OLBRICH BOTANICAL CENTER FIRST FL. = 8.67 (FOR FIRST FL. ELEV.)

REMOVE PLANTER & PAVE TO MATCH EXIST. PAVING

PLANTER

BRICK PAVERS

BRICK

4"x48'-0" DRAINAGE TRENCH

8'-5" TRANSITION SIDEWALK

2" PVC TO ROCK GARDEN PUMP

NEW INLET & STORM SEWER

TO STARKWEATHER CREEK

⊙ 3/4" Ø DIA. I.R. 7.2

EXIST. POWER POLE 54-61

• 6.43

NOTES
FINISH FLOOR ELEVATIONS FOR ALL OTHER SHEETS = 100.00'

AS BUILT
AUGUST 1, 1992

SITE PLAN — SCALE: 1"=20'

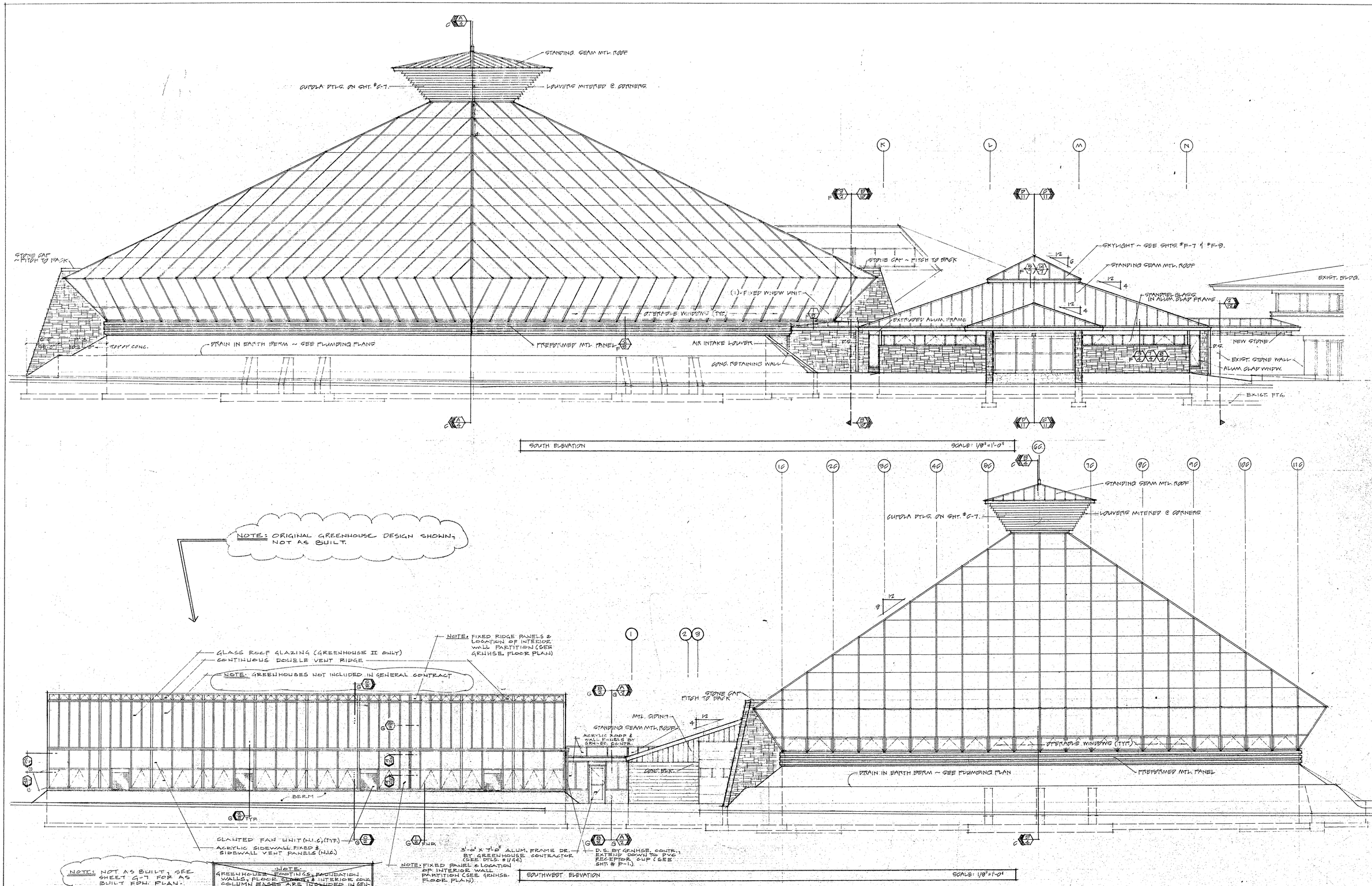
12-12-88: CHANGED LOCATION & SIZE OF SANITARY, AND LOCATION OF WATER SERVICES AT NORTH SIDE OF CONSERVATORY
11-16-88

STUART WILLIAM GALLAHER, ARCHITECT, INC.
702 NORTH BLACKHAWK AVENUE & MADISON, WISCONSIN

OLBRICH BOTANICAL COMPLEX
MADISON, WISCONSIN

SITE PLAN · SITE PLAN LEGEND

1.



STUART WILLIAM GALLAHER, ARCHITECT, INC.
702 NORTH BLACKHAWK AVENUE • MADISON, WISCONSIN

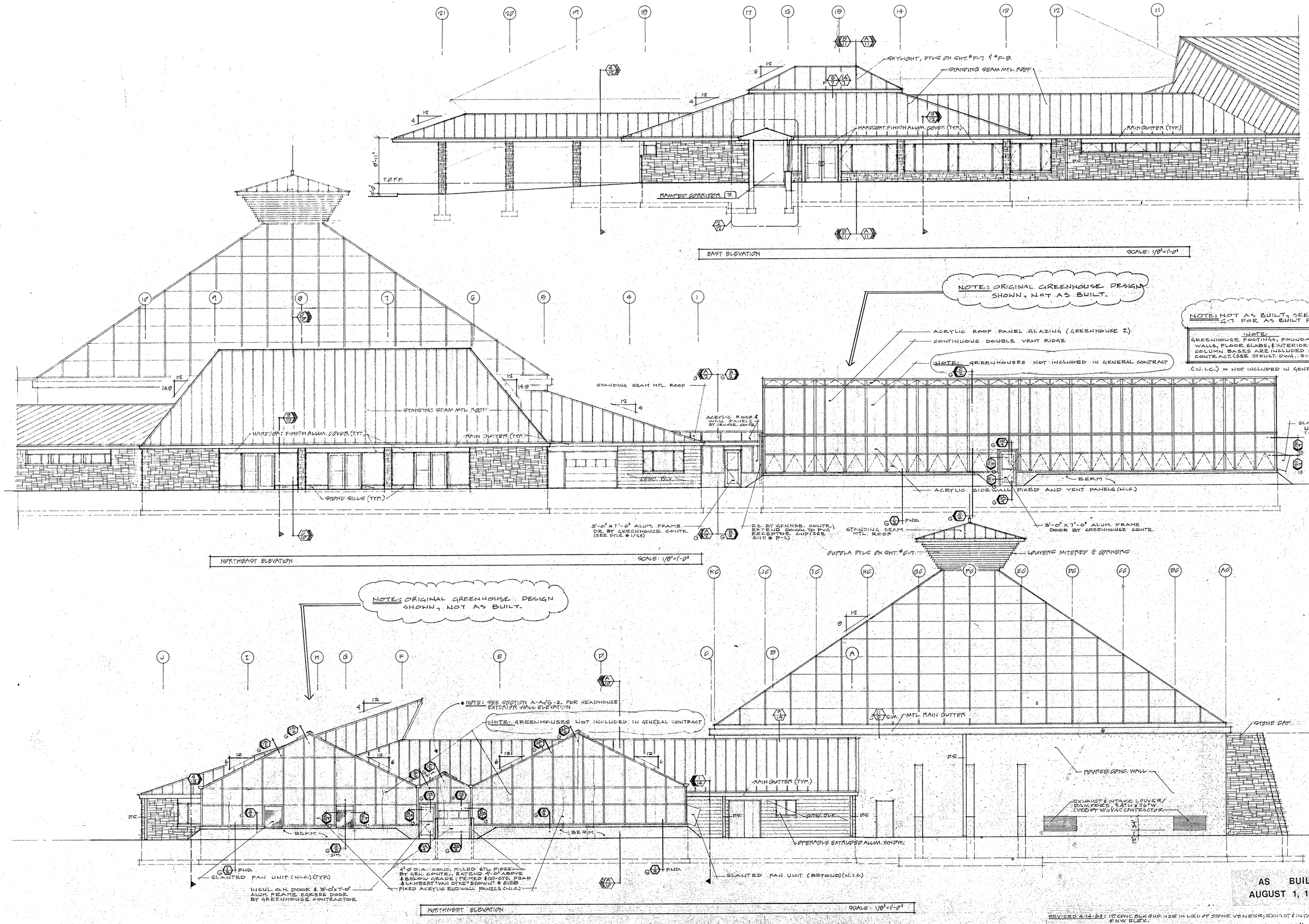
OLBRICH BOTANICAL COMPLEX
3330 ATWOOD AVENUE
MADISON, WISCONSIN

SOUTH ELEVATION • SOUTHWEST ELEVATION

AS BUILT
AUGUST 1, 1992

11-18-88

2.



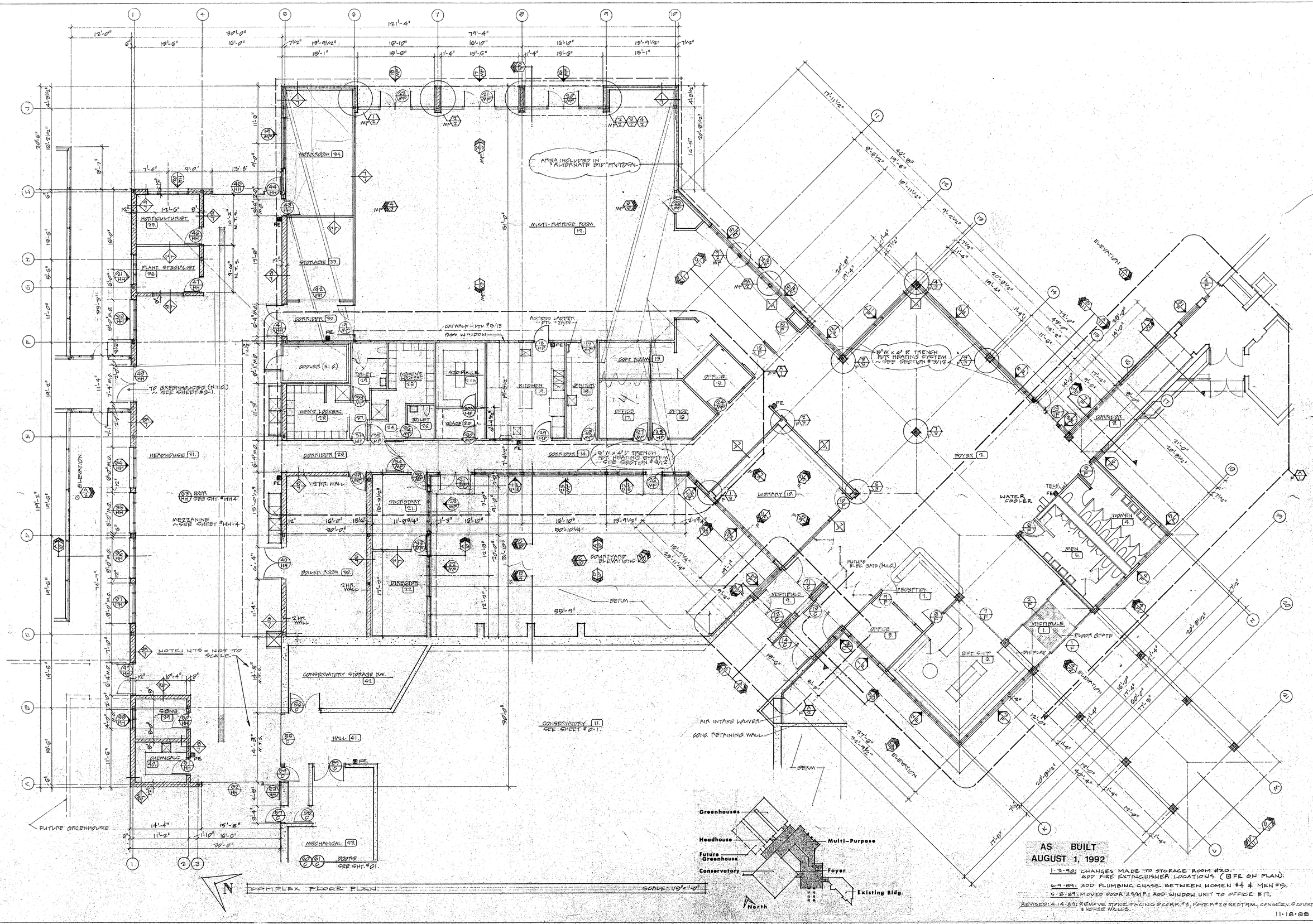
STUART WILLIAM GALLAHER, ARCHITECT, INC.
702 NORTH BLACKHAWK AVENUE • MADISON, WISCONSIN

BOTANICAL COMPLEX
MADISON, WISCONSIN

OLBRICH
2350 ATWOOD AVENUE

EAST ELEVATION • NORTHEAST ELEVATION • NORTHWEST ELEVATION

3.



AS BUILT
AUGUST 1, 1992

1-3-90: CHANGES MADE TO STORAGE ROOM #20. ADD FIRE EXTINGUISHER LOCATIONS (@FE ON PLAN).

6-9-89: ADD PLUMBING CHASE BETWEEN WOMEN #4 & MEN #5.

5-8-89: MOVED DOOR #9/MP; ADD WINDOW UNIT TO OFFICE #17.

REVISED: 4-14-89: REMOVE STONE FACING @ CORR. #23, FOYER #2 & RESTRM., CONSERV. & COURT #2, & HEDGE WALLS.

11-18-88

STUART WILLIAM GALLAHER, ARCHITECT, INC.
702 NORTH BLACKHAWK AVENUE • MADISON, WISCONSIN

OLBRICH BOTANICAL COMPLEX
3330 ATWOOD AVENUE
MADISON, WISCONSIN

COMPLEX FLOOR PLAN •

4.

SUPPLY AIR DIFFUSERS
LAY-IN CEILING TILES (SEE PLAN & SCHEDULE FOR TYPES)
FLUORESCENT LIGHT FIXTURE
RETURN AIR DIFFUSER
INCANDESCENT LIGHT FIXTURE
EXIT LIGHT LOCATION

EXHAUST FAN
GYPSUM BOARD CEILING (SEE PLAN & SCHEDULE)
FLUORESCENT LIGHT FIXTURE

WORKROOM 31
HORTICULTURIST 35
PLANT SPECIALIST 36
STORAGE 33
MULTI-PURPOSE RM. 12
TRANSLUCENT PANELS
SEE MULTI-PURPOSE RM. CEILING PLAN ON SHT. #MP4
CORRIDOR 32
WOMEN'S LOCKERS 25
30'-0" x 30'-0" GRID
GREENHOUSES (N.I.C.)
TOILET 29
MEN'S LOCKERS 28
STORAGE 10A
TOILET 26
XEROX 20
KITCHEN 19
JANITOR 17
OFFICE 16
COAT ROOM 13
OFFICE 15
SEE RAMP & FOYER CEILING PLAN ON SHT. #F7
RAMPED CORRIDOR 3
FOYER 2
HEADHOUSE 31 (SLOPED CEILING) *ENERGY INSULATION SUSPENSION SYSTEM
CORRIDOR 23
MEZZANINE
LIBRARY 10
CORRIDOR 14
SECRETARY 21
BOILER ROOM 30
OPEN COURTYARD
SKYLIGHT SEE SHTS. #F-7 & #F-9
WOMEN 4
MEN 5
VESTIBULE 9
DIRECTOR 22
RECEPTION 7
OFFICE 8
VESTIBULE 1
GIFT SHOP 6
STONE COLUMNS
SIGNS 39
CHEMICALS 40
CONSERVATORY 11
SEE SHEET #F8 FOR COVERED WALK & VESTIBULE CEILING DETAILS

Greenhouses
Headhouse
Future Greenhouse
Conservatory
Multi-Purpose
Foyer
Existing Bldg.
North

REFLECTED CEILING PLAN
SCALE: 1/8"=1'-0"

AS BUILT
AUGUST 1, 1992

6-9-89: REVISED WOMEN'S #4 & MEN'S #5; ADD LIGHTS IN PLBG. CHASE @ #4 & 5; ADD LIGHTS @ CONSERV. ENTRANCE.
11-18-88

BOTANICAL COMPLEX
MADISON
OLBRICH
REFLECTED CEILING PLAN
5.

STUART WILLIAM GALLAHER, ARCHITECT, INC.
702 NORTH BLACKHAWK AVENUE • MADISON, WISCONSIN

BOTANICAL COMPLEX
MADISON, WISCONSIN

OLBRICH
2330 ATWOOD AVENUE

ROOF PLAN •

6.

GREENHOUSE I (N.I.C.)

PAD ROOM (N.I.C.)

GREENHOUSE II. (N.I.C.)

D.G. BY GREENHOUSE CONTRACTOR

MTL. RAIN GUTTER

D.G.

HIP

VALLEY

NOTE: ACRYLIC ROOF PANELS, ROOF RAFTER/ALUMINUM BAR & NO-VENT HINGE @ PAD ROOM CONN. ARE (N.I.C.)

LOUVER & D.G. GREENHOUSE CONT.

D.S.

STAND. SEAM MTL. ROOF

RIDGE

SIM.

D.G. BY GREENHOUSE CONTRACTOR

ELEV.

MTL. RIDGE CAP

MEMBRANE ROOFING MITCH V8 IN 1-2

CLERESTORY WINDOWS

COURTYARD ELEVATIONS

ROOF SCUPPER

STANDING SEAM MTL. ROOF ON 2" THERMAL SPACERS & STL. PURLINS

MTL. RAKE TRIM

CONSERVATORY GLAZING

EXTENT CONSERVATORY RAIN GUTTER OVER STONE CAP

"PITCH STONE CAP" TO COURTYARD

OVERHANG OF CONSERVATORY GLAZING

SKYLIGHT — SEE SHTS. #F-7 & #F-8

EXISTING BLDG.

STANDING SEAM MTL. ROOF ON 15# ASPHALT SATURATED FELTS & 5/8" EXT. GRADE C-D PLYWD.

Greenhouses
Headhouse
Future Greenhouse
Conservatory
Multi-Purpose
Foyer
Existing Bldg.
North

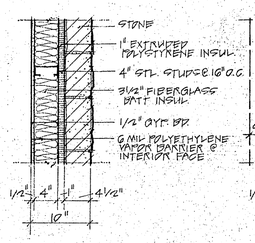
AS BUILT
AUGUST 1, 1992

ROOF PLAN — SCALE: 1/8"=1'-0"

REV. 4-14-81: RELOCATED ROOF SCUPPER.
11-12-85

ROOM FINISH SCHEDULE

ROOM NO.	ROOM NAME	INTERIOR ELEV.	FLOOR MATERIAL	FLOOR BASE	WALLS TYPES	WALLS MATERIAL	WALLS FINISHES	CEILING DETAILS	CEILING MATERIAL	CEILING HT.	TRIM CASING	TRIM MISC. TRIM	TRIM FINISH	REMARKS
1.	VESTIBULE	SHT.#F-6	• 8"x 8" QUARRY TILE 16 1 25 • RECESSED FLOOR GRATE		18	1/2" PLYWD. BACKER ON STL. STD.	STONE	SHT.#F-5	SAME AS "EXTERIOR SOFFITS" 3	9'-6 1/2"	RUF-CEDAR	RUF-CEDAR	1	
2.	FOYER	SHT.#F-6	8"x 8" QUARRY TILE 17 25	4" VINYL ALT. 8'x 4' x 2.T. 11	1 2 18	• 1/2" GYP. BD. ON STL. STUDS • 1/2" PLYWD. BACKER 5	• WOOD CLG. SYSTEM, BEYS 23, 12 • STONE 7, • PAINT 6	SHT.#F-7	• TYPE-A, SUSP. CLG. TILE SYSTEM • SUSP. WOOD CLG. SYSTEM 3 • LAM. WD. BMS.	8'-2 1/4" AG. VARIES	OAK 10	OAK FIR 10 11	12	NOTE: ALL COLOR SELECTIONS SHALL BE BY THE ARCHITECT.
3.	RAMPED CORRIDOR	SHT.#F-9	8"x 8" QUARRY TILE 17 25	4" VINYL ALT. 8'x 4' x 2.T. 11	5	CONC. BLOCK	• STONE 7, • TACKABLE WALL MAT'L. 21	SHT.#F-9	TYPE-A, SUSP. CLG. TILE SYSTEM 3	VARIES	OAK 10	OAK 10 11	12	1 SEE SPECIFICATIONS ON SHEET #9.
4.	WOMEN	SHT.#F-1	8"x 8" QUARRY TILE 16 26	CER. T. ALT. 8'x 4' x 2.T. 10	1 2 4	1/2" GYP. BD. ON STEEL STUDS 5	TYPE-A, CERAMIC TILE WAINSCOT. (44" HI.) 19		SUSPENDED 1/2" GYP. BD. 5 PAINT 8	7'-11"	OAK 10	OAK 10 11	12	2 ALL CARPETING IS EXCLUDED FROM THIS CONTRACT (N.I.C.)
5.	MEN	SHT.#F-1	8"x 8" QUARRY TILE 16 26	CER. T. ALT. 8'x 4' x 2.T. 10	1 2A 4	1/2" GYP. BD. ON STEEL STUDS 5	TYPE-A, CERAMIC TILE WAINSCOT. (44" HI.) 10		SUSPENDED 1/2" GYP. BD. 5 PAINT 8	7'-11"	OAK 10	OAK 10 11	12	3 SEE "REFLECTED CEILING PLAN" SHEET #5 AND "SPECIFICATION" ON SHEET #9.
6.	GIFT SHOP	SHT.#F-9	8"x 8" QUARRY TILE 17 25	4" VINYL ALT. 8'x 4' x 2.T. 11	1 2	1/2" GYP. BD. ON STEEL STUDS 5	PAINT 6		TYPE-A, SUSP. CLG. TILE SYSTEM 3	8'-0"	OAK 10	OAK 10 11	12	4 TROWEL SMOOTHE FINISH, HARDENER, & SEALER 1
7.	RECEPTION	SHT.#F-6	8"x 8" QUARRY TILE 17 25	4" VINYL ALT. 8'x 4' x 2.T. 11	2	1/2" GYP. BD. ON STEEL STUDS 5	PAINT 6	SHT.#F-7	TYPE-A, SUSP. CLG. TILE SYSTEM 3	8'-2 1/4" AG. VARIES	OAK 10	OAK FIR 10 11	12	5 TAPE, FILL, & SAND GYP. BD. ; READY FOR FINISH
8.	OFFICE		CARPETING (N.I.C.) 2	OAK 9	1 2	1/2" GYP. BD. ON STEEL STUDS 5	PAINT 6		TYPE-E, SUSP. CLG. TILE SYSTEM 3	8'-0"	OAK 10	OAK 11	12	6 PAINT W/ 2 COATS ACRYLIC LATEX ; COLOR BY ARCHITECT.
9.	VESTIBULE	SHT.#E-2	8"x 8" QUARRY TILE 16 25	4" VINYL ALT. 8'x 4' x 2.T. 10	11	1/2" PLYWD. BACKER ON STL. STD.	STONE		TYPE-B, SUSP. CLG. TILE SYSTEM 3	8'-0"		13		7 PAINT W/ 2 COATS SEMI-GLOSS ; COLOR BY ARCHITECT.
10.	LIBRARY	SHT.#F-9	CARPETING (N.I.C.) 2	OAK 9	1 7	1/2" GYP. BD. ON STEEL STUDS 5	PAINT 6		TYPE-A, SUSP. CLG. TILE SYSTEM 3	8'-0"	OAK 10	OAK 10 11	12	8 PAINT W/ 2 COATS "OFF-WHITE" GLOSS ENAMEL
11.	CONSERVATORY	SHT. #C-4, #C-5	BRICK PAVERS (N.I.C.) ; CONCRETE 4 @ ELEVATED WALK (SHEET C-2)			CONCRETE	RUBBED FINISH & SEALER	SHT.#C-3	GLASS & METAL TYPE-B, SUSP. CLG. TILE SYSTEM 3	VARIES				9 WOOD BASE : 3/4" x 3 1/2" SQ. STOCK ; OAK FILL, SEAL, NATURAL FINISH STAIN & (2)-COATS SATIN VARNISH.
12.	MULTI-PURPOSE ROOM	SHT.#MP-3	CARPETING (N.I.C.) 2	OAK 9	1 3 1	1/2" GYP. BD. ON STEEL STUDS 5	• PAINT 6, • ACOUST. FABRIC 20, • PANEL PARTITIONS 1	SHT.#MP-4	• TYPE-A, SUSP. CLG. TILE SYSTEM • TRANSLUCENT CLG. PANELS • LAM. WD. BMS. 3	8'-2 1/4" AG. VARIES	OAK 10	OAK 10 11	12	10 WOOD CASING : 5/8" x 2 1/4" SQ. STOCK, OAK FILL, SEAL, NATURAL FINISH STAIN & (2)-COATS SATIN VARNISH.
13.	CONT ROOM		CARPETING (N.I.C.) 2	OAK 9	2 3	1/2" GYP. BD. ON STEEL STUDS 5	PAINT 6		TYPE-A, SUSP. CLG. TILE SYSTEM 3	8'-0"				11 SEE DETAILS FOR SIZE & SPECIES OF WOOD TRIM.
14.	CORRIDOR	SHT.#MP-1	8"x 8" QUARRY TILE 17 25	4" VINYL ALT. 8'x 4' x 2.T. 11	1 2	1/2" GYP. BD. ON STEEL STUDS 5	PAINT 6		TYPE-A, SUSP. CLG. TILE SYSTEM 3	8'-0"	OAK 10	OAK 10 11	12	12 FILL, SEAL, AND NATURAL FINISH STAIN W/ (2)-COATS SATIN VARNISH.
15.	OFFICE		CARPETING (N.I.C.) 2	OAK 9	2	1/2" GYP. BD. ON STEEL STUDS 5	PAINT 6		TYPE-E, SUSP. CLG. TILE SYSTEM 3	8'-0"	OAK 10	OAK 11	12	13 HARDCOAT FINISH ALUMINUM COVER AT DOOR & WINDOW PERIMETER, SEE DRAWINGS.
16.	OFFICE		CARPETING (N.I.C.) 2	OAK 9	2	1/2" GYP. BD. ON STEEL STUDS 5	PAINT 6		TYPE-E, SUSP. CLG. TILE SYSTEM 3	8'-0"	OAK 10	OAK 11	12	14 SEE DETAILS 11, 12, & 13 ON SHT. #HH-2.
17.	OFFICE		CARPETING (N.I.C.) 2	OAK 9	4	1/2" GYP. BD. ON STEEL STUDS 5	PAINT 6		TYPE-E, SUSP. CLG. TILE SYSTEM 3	8'-0"	OAK 10	OAK 11	12	15 3/4" x 11 1/4" OAK BAND BOARD CONTINUOUS @ CEILING. FILL, SEAL, NATURAL FINISH STAIN W/ (2)-COATS SATIN VARNISH.
18.	JANITOR		RESILIENT FLOORING 1	4" VINYL 1	2 3	1/2" GYP. BD. ON STEEL STUDS 5	FIBERGLASS REINFORCED PLASTIC (FRP) PANELS 1		TYPE-D, SUSP. CLG. TILE SYSTEM 3	8'-0"	OAK 10	OAK 11	12	16 INSTALLATION METHOD #E11B-00 "TILE COUNCIL OF AMERICA." TILE SPEC. ON SHT. #9.
19.	KITCHEN 22		RESILIENT FLOORING 1	4" VINYL 1	2 3	1/2" GYP. BD. ON STEEL STUDS 5	FIBERGLASS REINFORCED PLASTIC (FRP) PANELS 1		TYPE-D, SUSP. CLG. TILE SYSTEM 3	8'-0"	OAK 10	OAK 11	12	17 INSTALLATION METHOD #F11G-00 "TILE COUNCIL OF AMERICA." TILE SPEC. ON SHT. #9.
20. 20A	20=KEFLEX ; 20A=STORAGE		RESILIENT FLOORING 1	4" VINYL 1	2 3	1/2" GYP. BD. ON STEEL STUDS 5	PAINT 6		TYPE-E, SUSP. CLG. TILE SYSTEM 3	8'-0"	OAK 10	OAK 11	12	18 INSTALLATION METHOD #W243-00 "TILE COUNCIL OF AMERICA." TILE SPEC. ON SHT. #9.
21.	SECRETARY		CARPETING (N.I.C.) 2	OAK 9	1 2 6	1/2" GYP. BD. ON STEEL STUDS 5	PAINT 6		TYPE-A, SUSP. CLG. TILE SYSTEM 3	8'-0"	OAK 10	OAK 11	12	19 "PURPOSE: TILE BACKER BOARD & TILE INSTALLATION METHOD #B4.12-90 "TILE COUNCIL OF AMERICA" AT ENCLOSURE AREA OF FIBERGLASS SHOWER MODULE.
22.	DIRECTOR		CARPETING (N.I.C.) 2	OAK 9	1 2 6	1/2" GYP. BD. ON STEEL STUDS 5	PAINT 6		TYPE-A, SUSP. CLG. TILE SYSTEM 3	8'-0"	OAK 10	OAK 11	12	
23.	CORRIDOR		CONCRETE 4	4" VINYL 1	2 9	• 1/2" GYP. BD. ON STL. STD. • CONC. BLOCK, PRIME 5	PAINT 7		• PRECAST CONC. PLANK, PAINT 7 • TYPE-E, SUSP. CLG. TILE SYSTEM 3	9'-0" 8'-0"				20 ACOUSTICAL FABRIC ON GABLE WALLS OF MULTI-PURPOSE ROOM CEILING ~ SEE INTERIOR ELEVATIONS ON SHT. #MP-3. FABRIC SPEC. ON SHEET #9.
24.	WOMEN'S VESTIBULE		CONCRETE 4	CER. TILE	2	1/2" GYP. BD. ON STEEL STUDS 5	PAINT 7		TYPE-C, SUSP. CLG. TILE SYSTEM 3	8'-0"				
25.	WOMEN'S LOCKERS		CONCRETE 4	CER. TILE	2 4A 9	• 1/2" GYP. BD. ON STL. STD. • 1/2" DUROCK 10 5	PAINT 7		TYPE-C, SUSP. CLG. TILE SYSTEM 3	8'-0"				21 TACKABLE WALL TO COVER EXIST. CONC. BLOCK CONSISTING OF SELF-ADHERING TYPE VINYL FABRIC ON 1/2" TACKBOARD PANEL SECURED TO BLOCK. SEE SPEC. ON SHEET #9.
26.	TOILET	SHT.#MP-1	CONCRETE 4	CER. TILE	2 4A	1/2" GYP. BD. ON STEEL STUDS 5	TYPE-B CER. TILE WAINSCOT. (48" HI.) 10		SUSPENDED 1/2" GYP. BD. 5 PAINT 8	8'-0"				
27.	MEN'S VESTIBULE		CONCRETE 4	CER. TILE	2	1/2" GYP. BD. ON STEEL STUDS 5	PAINT 7		TYPE-C, SUSP. CLG. TILE SYSTEM 3	8'-0"				22 KITCHEN CABINETS, COUNTERS AND EQUIPMENT NOT SPECIFIED ON "PLUMBING PLANS", SHALL BE PROVIDED AND INSTALL BY OTHERS', NOT IN THIS CONTRACT.
28.	MEN'S LOCKERS		CONCRETE 4	CER. TILE	2 9	1/2" GYP. BD. ON STEEL STUDS 5	PAINT 7		TYPE-C, SUSP. CLG. TILE SYSTEM 3	8'-0"				
29.	TOILET	SHT.#MP-1	CONCRETE 4	CER. TILE	2 4A 9	1/2" GYP. BD. ON STEEL STUDS 5	TYPE-B CER. TILE WAINSCOT. (48" HI.) 10		SUSPENDED 1/2" GYP. BD. 5 PAINT 8	8'-0"				23 "WOOD CEILING SYSTEM" BOARDS ARE TO BE INSTALLED ON 1/2" MYLYAR BACKER AT UPPER FOYER WALLS ~ SEE SHEETS #F-6 & #F-7.
30.	BOILER ROOM		CONCRETE 4		6	CONC. BLOCK			PRECAST CONC. PLANK	9'-0"				
31.	HEADHOUSE	SHT.#HH-1	CONCRETE 4		6 8A 9	CONC. BLOCK, PRIME	• PAINT 7, INT. & 6 EXT. • METAL LINER PANELS 24		INSULATION SUSTENSION SYSTEM 1	VARIES				24 "METAL LINER PANELS" AT UPPER HEADHOUSE WALLS. REFER TO ELEVATIONS ON SHEET #HH-1. PANEL FINISH SHALL BE DARK BRONZE - KYNAR 500 FLUROPOLYMER COATING BY PANEL MFG'R.
32.	CORRIDOR		CONCRETE 4	4" VINYL 1	2 2A	1/2" GYP. BD. ON STEEL STUDS 5	PAINT 6		TYPE-E, SUSP. CLG. TILE SYSTEM 3	8'-0"				25 QUARRY TILE = ALTERNATE; CONTRACT WORK IS COLORED CONCRETE - HARDEN & SEAL.
33.	STORAGE		CONCRETE 4	4" VINYL 1	2 7 9	• 1/2" GYP. BD. ON STL. STD. 5 • CONC. BLOCK, PRIME	PAINT 6		TYPE-E, SUSP. CLG. TILE SYSTEM 3	8'-0"				26 QUARRY TILE = ALTERNATE; CONTRACT WORK IS 2"x 2" PORCELAIN MOSAIC TILE. 14
34.	WORKROOM		RESILIENT FLOORING 1	4" VINYL 1	2 9	1/2" GYP. BD. ON STEEL STUDS 5	PAINT 6		TYPE-E, SUSP. CLG. TILE SYSTEM 3	8'-0"	OAK 10	OAK 11	12	
35.	HORTICULTURIST		CARPETING (N.I.C.) 2	OAK 9	2 9 9A	• 1/2" GYP. BD. ON STL. STD. 5 • CONC. BLOCK, PRIME	PAINT 6 INT. & EXT.		TYPE-E, SUSP. CLG. TILE SYSTEM 3	7'-4"	OAK 14	OAK 14	12	
36.	PLANT SPECIALIST		RESILIENT FLOORING 1	4" VINYL 1	2 9 9	• 1/2" GYP. BD. ON STL. STD. 5 • CONC. BLOCK, PRIME	PAINT 6 INT. & EXT.		TYPE-E, SUSP. CLG. TILE SYSTEM 3	7'-4"	OAK 14	OAK 14	12	
37.	SIGNS		CONCRETE 4		9 9A	CONC. BLOCK, PRIME	PAINT 7 INT. & 6		TYPE-E, SUSP. CLG. TILE SYSTEM 3	7'-4"				
40.	CHEMICAL		CONCRETE 4		9 9A	CONC. BLOCK, PRIME	PAINT 7 INT. & 6		TYPE-C, SUSP. CLG. TILE SYSTEM 3	7'-4"				
41.	HALL		BRICK PAVERS (N.I.C.) CONCRETE 4			CONCRETE	RUBBED FINISH & SEALER		CONCRETE & SEALER	VARIES				
42.	CONSERVATORY STORAGE		CONCRETE 4			CONCRETE ; PRIME	PAINT 7		CONCRETE	7'-6"				
43.	MECHANICAL		CONCRETE 4		9	CONCRETE & CONC. BLOCK			CONCRETE	7'-6" & 7'-10"				
44.	ELECT. EQUIP. & GENERATOR		CONCRETE 4		9	CONCRETE & CONC. BLOCK			CONCRETE	8'-4"				
45.	UPPER MECHANICAL		PRECAST CONC. PLANK		10	CONCRETE & STL. STUDS	METAL LINER PANELS 24		PRECAST CONC. PLANK	8'-4"				



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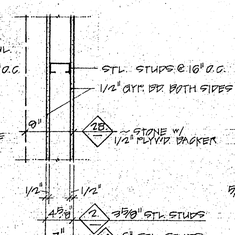

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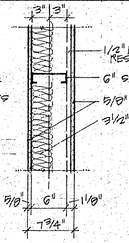

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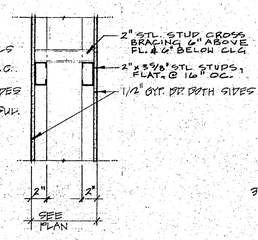

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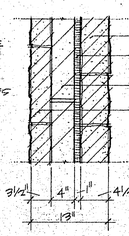

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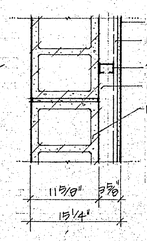

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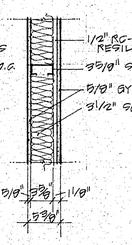

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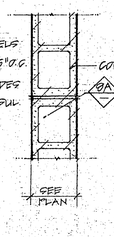

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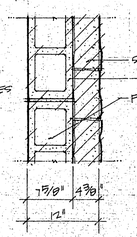

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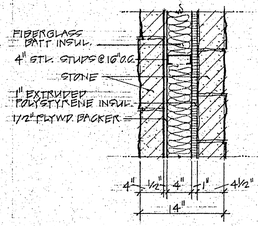


11. 10.

AS BUILT
AUGUST 1, 1992

6-9-89 ; REVISED TYPICAL WALL DETAIL #4.

REVISED 4-14-88: FLOOR, BASE & WALL REMARKS 1, 2, 3, 4, 5, 6, 7, 14, 24 & 25. ADD REMARK 26.
11-18-88

STUART WILLIAM GALLAHER, ARCHITECT, INC.
702 NORTH BLACKHAWK AVENUE • MADISON, WISCONSIN

OLBRICH BOTANICAL COMPLEX
3330 ATWOOD AVENUE
MADISON, WISCONSIN

ROOM FINISH SCHEDULE • TYPICAL WALL TYPES •

DOOR HARDWARE SCHEDULE

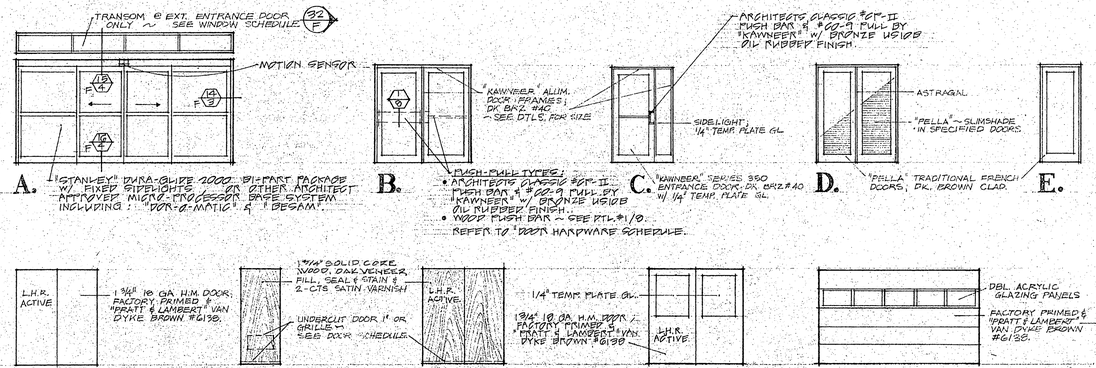
SET NO.	DOOR NUMBER	HARDWARE FINISH	LOCKSET "SCHLAGE"	CLOSER "LCN"	STOPS / HOLDERS "GLYNN-JOHNSON"	PUSH-PULL "BROOKLINE"	SWEEP "REESE"	THRESHOLD "REESE"	BOLTS "GLYNN-JOHNSON"	KICKPLATE "BROOKLINE"	BUTTS "STANLEY"	WEATHERSTRIP "NATIONAL" & "REESE"
1.												
2.	1 F, 2 F	US. 10. B	9	#5034 H. 90 CONCEALED IN HEAD		"KAWNEER" SEE DOOR SCHEMATIC	12 PER DOOR MFG'R.	10 #5814 DUR, #5406 DUR			PER DOOR MFG'R	PER DOOR MFG'R.
3.	3 F, 4 F	US. 10. B	9	#5034 H. 90 CONCEALED IN HEAD		"KAWNEER" SEE DOOR SCHEMATIC	# 323 B	#5406 DUR			PER DOOR MFG'R	# 197
4.	5 F, 6 F	US. 10. B	# BA63 P DEADBOLT	#4033 H90	#FB13X STOP	#54 PUSH, #54X 607 PULL				8" x 34" ON PUSH SIDE	1½ PR. 4½ x 4½ #FBB1139	
5.	6 F, 14 F	US. 10. B	# A53 PD., TUL.		#FB13X STOP						1½ PR. 4½ x 4½ #FBB 191	
6.	9 F, 24 MP, 26 MP, 27 MP, 32 MP, 33 MP	US. 10. B	# A53 PD., TUL.		#GOW STOP						1½ PR. 4½ x 4½ #FBB 191	
7.	11 C, 12 C, 13 C, 14 C	US. 10. B	9	#5034 H. 90 CONCEALED IN HEAD EA. LEAF		"WOOD PUSH BAR" SEE DOOR SCHEMATIC	# 323 B	#5404 DUR			PER DOOR MFG'R.	# 197
8.	15 F, 16 F	US. 10. B		#333 H 90 EA. LEAF	#FB13X STOPS, #1154 HOLDER EA. DR.	#54 PUSH, #54X 607 PULL				8" x 34" ON PUSH SIDE EA. DOOR	1½ PR. 4½ x 4½ #FBB 193 EA. DOOR	
9.	17 MP, 29 MP	US. 10. B	# A70 PD., TUL.		#50 W STOP					8" x 34" ON PUSH SIDE	1½ PR. 4½ x 4½ #FBB 191	
10.	19 MP	US. 10. B	# BTGDN		#W-40 HOLDER	#54 PUSH, BOTH SIDES OF DOOR				8" x 34" ON BOTH SIDES OF DOOR	#BB157 DBL. ACTING, F.R. HINGE	
11.	19 MP	US. 10. B		#4033 H 90 EA. DOOR	#FB13X STOPS, EA. LEAF	#54 PUSH, #54X 607 PULL EA. LEAF				8" x 24" ON PUSH SIDE EA. DOOR	1½ PR. 4½ x 4½ #FBB191 EA. DOOR	
12.	20 MP, 21 MP, 22 MP	US. 10. B	# A. 70. PD., TUL.	#3310 H 90 ACTIVE LEAF	#100 ADJ. "2" HOLDER INACTIVE LEAF		PER DOOR MFG'R	PER DOOR MFG'R	PER DOOR MFG'R		PER DOOR MFG'R.	
13.	23 MP	US. 10. B	# A. 74 PD., TUL.		#FB13X SIDE @ 18" OPEN						1½ PR. 4½ x 4½ #FBB 193	
14.	26 MP, 31 MP	US. 10. B	#DG6 PD., TUL.	#3310 H 90	#100 ADJ. "2 HOLDER		PER DOOR MFG'R	PER DOOR MFG'R	PER DOOR MFG'R		PER DOOR MFG'R.	
15.	28 MP, 30 MP, 30A MP	US. 10. B	#A70 PD., TUL.		#FB13X STOP						1½ PR. 4½ x 4½ #FBB191	
16.	34 MP	US. 10. B		#4040 H PULL SIDE EA. DOOR	#FB13X STOP EA. DOOR	#54 PUSH, #54X 607 PULL EA. LEAF	# 323 AB FULL SIDE	#5404 B		8" x 34" ON PUSH SIDE EA. DOOR	1½ PR. 4½ x 4½ #FBB199 EA. DR.	# 82 AB - PULL SIDE - # 197
17.	25 MP, 27 MP, 30 MP	US. 26 D	# BA63 P DEAD BOLT	#4033 H 90	#FB13X STOP	#54 PUSH, #54X 607 PULL				8" x 34" ON PUSH SIDE	1½ PR. 4½ x 4½ #FBB191	
18.	30 MP	US. 26 D	#A405, ORB.		#60 W STOP					8" x 34" ON PUSH SIDE	1½ PR. 4½ x 4½ #FBB191	
19.	34 MP	US. 26 D	#M70 PD., ORB.	#4040 PULL SIDE	#60 W STOP		# 323 A	#5404 A		8" x 34" ON PUSH SIDE	1½ PR. 4½ x 4½ #FBB 179	
20.	40 HH	US. 26 D					# 323 A	#5404 A	1 PR. #1705-T48 @ RM. # 30		1½ PR. 4½ x 4½ #FBB 266	# 183 S
21.	41 HH	US. 26 D		#4040 H PUSH SIDE EA. DOOR		#54 PUSH, #54X 607 PULL EA. LEAF	# 323 A	#5404 A		8" x 36" ON PUSH SIDE EA. DOOR	1½ PR. 4½ x 4½ #FBB179 EA DOOR	# 82 AB PULL SIDE
22.	43 HH, 60 C, 61 C, 62 C	US. 26 D	#A70 PD., ORB.		#60 W STOP						1½ PR. 4½ x 4½ #FBB 179	
23.	44 HH, 58 HH	US. 26 D	#A80 PD., ORB.	#4040 H			# 323 A	#5404 A			1½ PR. 4½ x 4½ #FBB 179	# 197
24.	46 HH, 47 HH	US. 26 D	#A53 PD., ORB.		#60 W STOP		# 323 A	#5404 A			1½ PR. 4½ x 4½ #FBB. 179	
25.	49 HH	US 26 D	#DG6 PD., ORB. NATIVE LEAF	#4040 H			#10 BAP 14 6"x9/16" HEAVY DUTY	#FBG TOP & BOTT. INACTIVE LEAF			1½ PR. 4½ x 4½ #FBB 179 EA. DR.	#183 S EXT. FACE - # 197
26.	49 HH	US. 26 D	#A25D, ORB. ACTIVE LEAF				# 323 A	#10 DM 14 6"x9/16" HEAVY DUTY	#FBG TOP & BOTT. INACTIVE LEAF		1½ PR. 4½ x 4½ #FBB 179 EA. DR.	W/#183 S EXT. FACE / # 197
27.	50 HH, 63 HH	US. 26 D	#A70 PD., ORB.		#FB13X STOP						1½ PR. 4½ x 4½ #FBB 179 EA. DR.	
28.	51 HH	US. 26 D	#A80 PD., ORB.		#FB13X STOP			#5406 A DR. TO ONLY			1½ PR. 4½ x 4½ #FBB 179	
29.	54 HH	US. 26 D	#A20 PD., ORB. KEY & CONSERV.		#100 ADJ. - 2 HOLDER		# 323 A	#5404 A			1½ PR. 4½ x 4½ #FBB 179	# 197
30.	56 C	US 26 D	#A80 PD., ORB. ACTIVE LEAF		#FB13X STOP EA. DOOR		# 323 A	#5404 A	#FBG TOP & BOTT. INACTIVE LEAF		1½ PR. 4½ x 4½ #FBB 179 EA. DR.	# 183 S
31.	57 C	US 26 D	#A25D, ORB.	#4040 H			# 323 A	#5404 A			1½ PR. 4½ x 4½ # FBB 179	# 197
32.	58 C	US 26 D			#FB13X STOP		# 323 A	#5404 A			1½ PR. 4½ x 4½ #FBB 179 EA. DR.	
33.	59 C, 64 HH	US. 26 D	#A80PD, ORB ACTIVE LEAF		#FB13X STOP EA. DOOR		# 323 A	#5404 A	#FBG TOP & BOTT. INACTIVE LEAF		1½ PR. 4½ x 4½ #FBB 179 EA. DR.	# 183 S

NOTE: ALL DOORS SHALL BE KEYED TO A MASTER / SUB MASTER SYSTEM AS DETERMINED BY THE OWNER.

DOOR SCHEDULE

DOOR NUMBER	SIZE	TYPE		FRAME		HARDWARE SETS	REMARKS
1 F, 2 F	16'-0" x 7'-0" AUTOMATIC SLIDING	AUTO-SLIDE	A, A1	MFG'R		2	9, 10, 11, 12
3 F	PR. 3'-0" x 7'-0" x 1 3/4"	ALUM.	B	ALUM.		3	9
4 F	3'-0" x 7'-0" x 1 3/4" W/ SIDELIGHT - FIELD VERIFY	ALUM.	C	ALUM.		3	9
5 F, 6 F, 9 F, 10 F, 17 MP, 23 MP, 24 MP, 25 MP, 27 MP, 28 MP, 30 MP, 32 MP, 33 MP, 30A MP	3'-0" x 7'-0" x 1 3/4"	WD.	J	WD.		4, 5, 6, 9, 10, 13, 18	1, 2, 3, 7
7 F	SIZE PER DRWGS	ROLL-UP GRILLE	P	MFG'R		MFG'R.	
11 C, 12 C, 13 C, 14 C	PR. 3'-4" x 7'-0" x 1 3/4"	ALUM.	B	ALUM.		7	1, 2, 6, 9
15 F, 16 F, 17 MP	PR. 3'-0" x 7'-0" x 1 3/4"	WD.	K	WD.		8, 11	3, 7
20 MP, 21 MP, 22 MP, 31 MP	PR. 3'-0" x 7'-0" x 1 3/4"	ALUM. CLAD	D	ALUM. CLAD		12, 14	8
26 MP	3'-0" x 7'-0" x 1 3/4"	ALUM. CLAD	E	ALUM. CLAD		14	
34 MP	PR. 3'-0" x 7'-0" x 1 3/4"	WD.	K	H.M. 11		16	5
35 MP, 36 MP, 37 MP, 38 MP	3'-0" x 7'-0" x 1 3/4"	WD.	J	H.M. 11		17, 19	3
39 HH, 51 HH	3'-0" x 7'-0" x 1 3/4"	H.M.	G_2	H.M. 11		19, 20	4
40 HH	PR. 3'-0" x 7'-0" x 1 3/4"	H.M.	H_2	H.M. 11		20	4
41 HH, 58 C, 59 C, 63 HH	PR. 3'-0" x 7'-0" x 1 3/4"	H.M.	H	H.M. 11		21, 22, 33	
42 HH	8'-0" W x 7'-0" H	ROLL-UP DOOR	N	MFG'R		MFG'R	
43 HH, 46 HH, 47 HH, 50 HH, 54 C, 60 C, 61 C	3'-0" x 7'-0" x 1 3/4"	H.M.	G	HM. 11		22, 24, 27, 28, 29, 32	
48 HH	PR. 3'-0" x 7'-0" x 1 3/4"	H.M.	L	H.M. 11		28	6
52 HH	10'-0" W x 7'-0" H	OVERHEAD DR.	M	H.M. 11		MFG'R	
49 HH	PR. 3'-0" x 7'-0" x 1 3/4"	H.M.	H_1	H.M. 11		26	6
62 HH	12'-0" W x 12'-0" H	OVERHEAD DR.	M	H.M. 11		MFG'R	6
53 HH, 57 C, 64 HH	3'-0" x 7'-0" x 1 3/4"	H.M.	G_1	H.M. 11		23, 31	
55	10'-0" W x 8'-0" H	ROLL-UP DR.	N	H.M. 11		MFG'R	
65	3'-0" x 7'-0" x 1 3/4"	WD.	J	WD.		18	

1. AUTOMATIC DOOR OPERATOR AS MANUF. BY "POWER ACCESS CORP." W/ TOUCH PLATE WALL SWITCH - REQ. #3, 6, 11, 12, 13, 14. ALTERNATE BID #4 - AUTOMATIC DOOR OPERATOR ON REQ. #1 & #2 ~ SEE DOOR SCHEMATIC "A1."
2. BARRIER-FREE SYMBOL ON DOORS: #3, 6, 11, 12, 13, 14.
3. 4" ENGRAVED PLASTIC SIGNS, BLOCK STYLE LETTERS - "MEN" DRS. #6 & #37, "WOMEN" DRS. #5 & #38, "EXIT ONLY" DR. #19, "AUTHORIZED PERSONNEL ONLY" DR. #34.
4. ALL DOOR HARDWARE & FRAMES TO BE FIRE-RATED.
5. HEAVY-DUTY THRESHOLD BY "REESE" #FBGBAP14 - .6" x 3/16" - DRS. #48, #49 & #52, .9" x 3/16" - DR. #55.
6. CONTRACTOR SHALL FIELD APPLY WOOD PUSH/PULL BARS TO DOOR PER DTL. #1/E.
7. CUT HEAD SECTION CASING IN ROOMS WITH OAK BAND BD. AT CEILING - SEE DTL. #13/E7.
8. "SLIM SHADES" IN DOORS #20, #21, #22, AND IN ADJACENT FIXED GL. SIDELIGHTS.
9. "SCHLAGE" #20-065 CYLINDER W/ "ADAMS-RITE" 1850 "ANSI" DEADBOLT & "ADAMS-RITE" #4006 "THUMBTURN" IN EA. LEAF OF DRS. #1, 2, 3, 4, 11, 13.
10. "REESE" #5814 DUR. HAVE SADDLE & FIXED PANEL TO COVER THERMAL BREAK @ #5406 DUR @ SLIDING PANELS @ DRS. #1 & #2.
11. 16 GA., HOLLOW MTL. FRAMES - SIZES PER DRAWINGS - FACTORY APPLIED PRIMER; PAINT "PRATT & LAMBERT" VAN DYKE BROWN #6138.
12. ALTERNATE BID #4 - SWINGING ENTRANCE DOORS W/ SIDELIGHTS ~ SEE DOOR SCHEMATIC "A1."



DOOR TYPES H.T.S.

AS BUILT
AUGUST 1, 1992

REVISED 4.14.89 - HDW. SETS 13, 14, 30, 33, OAK VENEER DRS. J & K; MASTER KEY, DELETE 11-16-88

STUART WILLIAM GALLAHER, ARCHITECT, INC.
702 NORTH BLACKHAWK AVENUE • MADISON, WISCONSIN

OLBRICH BOTANICAL COMPLEX
3330 ATWOOD AVENUE
MADISON, WISCONSIN

DOOR HARDWARE SCHEDULE • DOOR SCHEDULE • DOOR TYPES

8.

SPECIFICATIONS

SUPPLEMENTARY GENERAL CONDITIONS: The Contractor shall furnish all labor, materials and services necessary or reasonably incidental to complete the Work here-in and as indicated on the Contract Drawings. This Contract shall be accomplished in a manner exemplary of standard construction practices and in strict accordance with Material Manufacturer's Specifications. If the Contractor shall be in doubt as to the manner or methods of accomplishing any portion of this Contract he shall immediately contact the Architect for specific written instructions.

NOTE: Products of equal SIZE, COLOR and QUALITY may be substituted for those specified provided the product has been approved by the Architect and the City of Madison Parks Department.

NOTE: All COLOR and TEXTURE selections shall be by the Architect.

SITEWORK: Foundation backfilling, Conservatory berm and storm sewer by Contractor. All other work by City of Madison Parks Department.

SIDEWALK AT COVERED ENTRANCE: Exposed aggregate shall be #1 through #5 even graded Meremac Stone. Meremac Stone shall be distributed and exposed in the quantity of three 5 gal. palls per 100 sq. ft. of exposed aggregate concrete.

CONCRETE AND CONCRETE REINFORCING: Specifications are included in the Structural Section of the Contract Drawings.

MASONRY:
- -Mortar: Type N, in accordance with ASTN specification C270-64T Mortar for Unit Masonry, 750 p.s.i. at 28 days. Mortar to contain no admixtures or coloring.
- -Concrete Masonry Units shall be modular, load-bearing units conforming to A.S.T.M. C-90, Grade A. Masonry units shall be uniform, dense with no broken edges or corners, no variation in color and cured a minimun of 90 days.
- -Concrete Brick shall conform to A.S.T.N. C-55 Grade A.
- -Stone: "Timber Tan" Limestone, Fond du Lac Stone Co.
- -Sills and Copings: Indiana Limestone
- -Metal Joint Reinforcement shall be Standard DUR-O-WALL or BLOCK-LOC (AA Wire Products Co.)

STRUCTURAL STEEL: Specifications are included in the Structural Section of the Contract Drawings.

CATWALK LADDER: Per Detail #2A/13.

CATWALK GRATING: "NcNichols Co." Gripstrut Safety Grating, 10 Diamond Plank (4¼" x 24"). Install per Detail #5/13.

MEZZANINE DECK GRATING: "NcNichols Co." Nezzanine Grating, interlocking 18 gauge steel panels, (4" x 12"), Solid Plank. Install per Details on Sheet #CH-4.

LAMINATED WOOD BEAMS: shall be glued laminated Douglas Fir with 1½" laminations and stress graded to 2,000 P.S.I. (Min.) in bending. All members shall be "PREMIUM" grade and shall bear the A.I.T.C. quality mark. Maximum moisture content shall be 16% in each member. The Fabricator shall furnish all connectors for joining and installing laminated members to building structure.

EXTERIOR SOFFITS: 3/4" x 3½" Ruf-Cedar boards with Flood Co. "Aquatrol" finish, on ½" exterior grade plywood prepainted with "Moutz" #2106 Leather Brown equally intermixed with #2117 Charcoal (2 coats). ~~(Entry Canopy Only). All other Soffits ¼" Ext. Grade, Ruf Cedar Plywd. w/ Olympic S#716.~~

INSULATION:
- -Walls: Insulation types and thicknesses shown on the Drawings.
- -Roof: "Manville" PEBS Blankets; resilient, unfaced fiberglass filler blanket of sizes and thicknesses shown on the Drawings. ~~(w/ Vapor Barrier)~~.
- -Rigid Insulation: shall be "Styrofoam" type "SM" or "TG", extruded polystrene insulation board. Sizes and locations indicated on the Drawings.
- -Tapered Insulation: See "Membrane Roof" Specifications.
- -Foundation Insulation: 1½" extruded polystyrene insulation board, "Styrofoam" type "SM", located 2'-0" horizontal and vertical at perimeter foundation walls.

ROOF INSULATION SUSPENSION SYSTEM: "Manville Bundaid Roof System" ITP Thermoliner or Suspend-R ceiling insulation systems. See Drawings for system applications and locations.

PREFORMED METAL PANELS: (Conservatory exterior) "Norin Building Products Co., Inc." type "O-24" (4" x 24") panels with fasteners. Factory finish, color selection by Architect. Refer to Detail #2/F-8

STANDING SEAM METAL ROOF: "Alumax" BSD "Stand'n Seam" structural roofing system. Panels shall have a 2½" high standing seam @ 16" o.c. with a continuous panel length and a concealed system of anchoring to the structural frame. The roofing system shall meet ASTM E330-72 and ASTM E331-70 standards for structural performance and water penetration. Color shall be "Pre-Aged Copper" #PC-20.

EXCAVATION AND BACKFILL: The Contractor shall excavate and backfill for all footings, foundation walls and other underground work indicated on the Drawings and Specifications. Backfilling shall be with excavated materials compacted in 6" lifts to a minimum dry Proctor Density of 95%. The Contractor shall rough grade the entire construction site to 6" below finished grade and bring all building berms and The Courtyard up to finish grade with 6" of topsoil furnished by The Madison Parks Division.

PULL-DOWN STAIR (AT MEZZANNE): "Super Simplex" disappearing stairway as manufactured by "Percision Stair Corp." or approved equal: Stairway shall be piano-hinged in a steel frame for a 30" x 54" rough opening and shall have non-skid serrated treads with 9½" riser height. Unit shall be tested to support 400 lbs. and shall be mounted in 1/8" steel box frame 5" deep for aluminum door. Unit shall be custom fabricated for floor to floor height as indicated on Drawings and shall have provisions for pole operation. Hardware shall be fabricated from heavy-duty galvanized steel.

ROOF SCUTTLE: "Bilco" type S-50 ladder access roof scuttle with 11 GA. aluminum cover and curb, and 18 GA. aluminum cover liner, or approved equal.

RAIN GUTTERS AND DOWNSPOUTS: Gutters and downspouts shall be 24 GA. G-90 galvanized steel with Kynar 500 fluropolymer coating, Dark Bronze color, as manufactured by "Metal-Era, Inc.". Gutter size and shape shall be as shown on the Plans. Downspouts shall be closed-face and shall drain into open site drainage leaders in locations indicated on the Drawings. Manufacturer will engineer required downspout sizes.

TRANSLUCENT CEILING PANELS: (Multi-Purpose Room) Guardian 275 as manufactured by "Major Industries, Inc."; 2 3/4" thick panels with 8" x 20" In-Line Rectangular Grid pattern, .045 Crystal interior panel finish with 20/200 fire rating. White baked enamel perimeter frames and mullions for interior use. Thermal barrier options are not required.

MEMBRANE ROOF: Single-ply, white chlorinated polyethylene with mechanical fasteners, 10 year guarantee. "Cooltop" manufactured by "Cooley Roofing Systems" or "Trocal" manufactured by "Dynamit Nobel of America, Inc.". Installation shall be performed by a roofing contractor authorized by the roofing manufacturer. All flashings shall be per roofing manufacturer's specifications. Install on tapered extruded polystyrene insulation, sloped 1/8 in 12 to rain gutter(4¼" to 2½"). "Contour Taper Tile-X" by "AFM, Associated Foam Manufacturers".

SKYLIGHT: See "NOTES and SPECIFICATIONS" on Sheet #F-8

CAULK: "Mono-Lastomeric" as manufactured by the "Tremco Co.". Caulk exterior joinings and openings. Color shall match adjacent material finish.

EXTERIOR DOORS AND FRAMES: See "DOOR SCHEDULE" and Drawings for specifications.

WINDOW UNITS: See "WINDOW SCHEDULE" and Drawings for specifications.

SUSPENDED WOOD CEILING SYSTEN: (Foyer #2) "Marlite" Brand Linear Wood Ceiling System as manufactured by the "Masonite Corp." ½" x 3½" Doug-Fir planks with natural finish. Install on standard heavy duty (commercial grade) drop ceiling "T"-Grid system at ceiling applications. For use on vertical walls install per details on Sheet #F-7.

SUSPENDED CEILING TILE SYSTEN: Refer to "ROOM FINISH SCHEDULE" on Sheet #7.
- TYPE A: Acoustical, "Armstrong" Suprafine #1600, 24" x 24" lay-in. Color = Parchment #6423, in matching 9/16" Suprafine Grid System.
- TYPE B: Moisture-Resistive, "Armstrong" Ceramaguard #601B, 24" x 24" lay-in, in moisture-resistive ceiling grid system (white).
- TYPE C: Moisture-Resistive, "Armstrong" Ceramaguard #602A, 24" x 48" lay-in, in standard ceiling grid system (white).
- TYPE D: Dirt-Resistive, "Armstrong" Minaboard ML (perforated) #846A 24" x 48" lay-in. USDA approved. In standard ceiling grid system (white).
- TYPE E: Acoustical, "Armstrong" Minaboard Designer #734, 24" x 48" lay-in, in standard ceiling grid system (white).

QUARRY TILE: "Gail" Brickplate, 8" x 8" unglazed quarry tile and base. "Elffel" color tile and colored grout. Install per "Tile Council of America" methods #F115-88 (dry set mortar and epoxy grout) and #F116-88 (epoxy adhesive).

CERAMIC TILE: Refer to "ROOM FINISH SCHEDULE" on Sheet #7.
- TYPE A: (Toilet Walls) 4¼" x 6" matte glazed ceramic tile as manufactured by "American Olean","Dal-Tile", "United States Ceramic Tile Co." or approved equal. Colored latex portland-cement grout. Colors by Architect. Install per "Tile Council of America" method #W243-88 (latex portland-cement motar).
- TYPE B: (Locker room walls) 4¼" x 4¼" matte glazed ceramic tile as manufactured by "American Olean", "Dal-Tile", "United States Ceramic Tile Co." or approved equal. Colored latex portland-cement grout. Colors by the Architect. Install per "Tile Council of America" methods #W243-88 (latex portland-cement mortar) and #B412-88 (glass mesh mortar units).

RESILIENT FLOORING: 12" x 12" x 1/8", commercial grade, composition vinyl tile, as manufactured by "Azrock", "Armstrong" or approved equal. Standard pattern series, color by Architect. Tile shall meet Federal Specification #SS-T-312 type IV.

VINYL BASE: 4"vinyl wall base (cove), color by Architect.

VINYL FABRIC: (Tackable wall) "Genon" Highland type II, 20 oz. vinyl wall covering. Color by Architect.

ACOUSTICAL FABRIC: (Multi-Purpose Room) "Wolf-Gordon Inc." Reno, acoustical rating = NRC .65. Color by Architect.

FIBERGLASS REINFORCED PLASTIC (F.R.P.) PANELS: Moisture and corrosion resistant wall panels as manufactured by "Kemlite". Walls = 4' x 8' (Glasbord-P) F.R.P. panels, (white).

TACKBOARD PANEL: "Caroline" Corktex tackboard panel #1425. ½" panel consisting of ¼" cork and ¼" hardboard.

TOILET PARTITIONS: (Rooms #4, #5, #29) "Accurate Partitions Corp.", Concord model toilet compartments (floor-mounted and headrail braced). Pilaster Flush Type B, urinal screens. Baked enamel steel partitions and doors with tamper-resistant, rust-resistant fasteners. Color selection by Architect.

LOCKERS: (Locker Rooms #25 and #28) 18"W x 18"D x 72"H Standard. Single tier metal lockers with continuous slope top. Baked enamel finish, color selection by Architect.

BATHROOM EQUIPMENT:
- -GRAB BARS "Bobrick Co." #B-6206 (42"); Room #5
- -GRAB BARS "Bobrick Co." #B-62616 (24" x 36"), Rooms #4, #26, #29
- -PAPER HOLDERS "Bobrick Co." #B-274; Rooms #4, #5, #26, #29
- -SOAP DISPENSERS "Bobrick Co." #B-112; Rooms #4, #5, #26, #29
- -MIRRORS "Bobrick Co." #B-165 (24" x 36"); Rooms #26, #29
- -MIRROR "Bobrick Co." #B-2908 (108" x 36") tempered glass; Room #5
- -MIRROR "Bobrick Co." #B-2928 (108" x 36") tempered glass with stainless steel shelf; Room #4
- -HAND DRYERS "Bobrick Co." #B-7007 surface mounted autopilot hand dryer. (white) Rooms #4, #5

PANEL PARTITIONS: (Multi-Purpose Room #12) "Hufcor" Omni-Directional, Series #9652 top supported, manually operated, individual panel system with a STC rating of (49). Manufacturer shall install partitions and plenum closure as shown in Drawings. Panels shall be 3 5/8" thick, 48½" (Max.) width consisting of tackable base laminated to structural, acoustical backing. Surface material shall be factory applied "Highland" vinyl fabric. Color selection by Architect.

TELEPHONE ENCLOSURE: "Phillips & Brooks, Inc." model #PB-101 wall mounted enclosure with stainless steel shelf and acrylic side panels.

COAT RACK: "Rigid-Rak" Model #625 as manufactured by "Raymond Engineering Incorporated". Oak Brackets and clear anodized shelf and hanger pole.

FLOOR GRATE: (Entrance Vestibule #1) "Reese" #420 Perfec-Clean floor grate frame with drain pan adapter and #457 Perfec-Clean abrasive treads. Drains, trap, pan assembly and connections to be furnished by others.

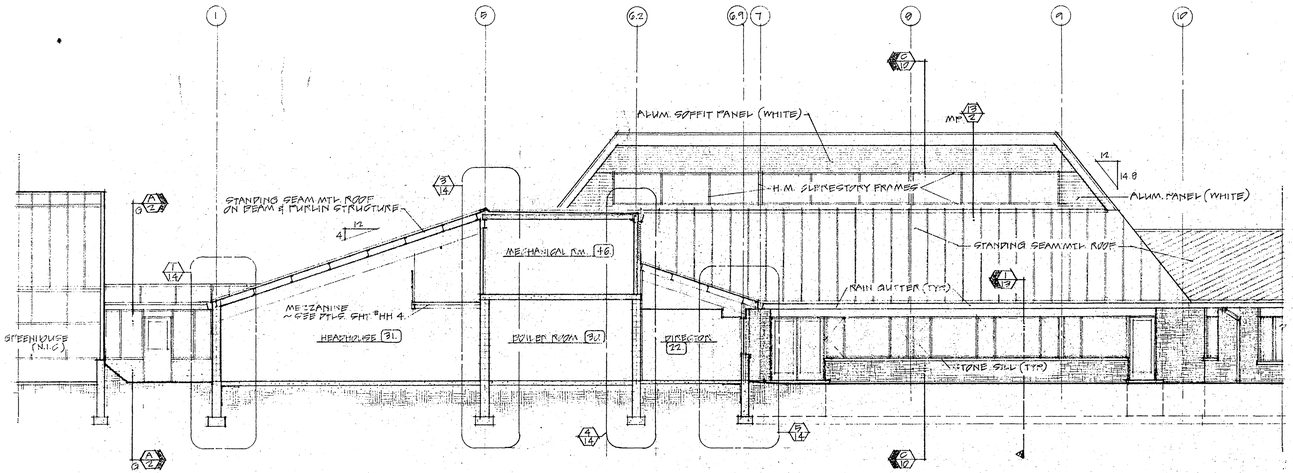
LIGHTING LOUVER: (Reception #7 and Entrance Vestibule #1) "Lithonia" PLA white acrylic Plasti-Cube louver; ¾" x ¾" x ¾", 45° shielding White Ceiling grid system frame. Refer to Details #9/F-7 and #4/F-5.

NOTE: QUARRY TILE IS AN ALTERNATE; CONTRACT IS CONCRETE COLORED W/ "LITHOCHROME" AS MANUF. BY L.M. SCOFIELD CO.

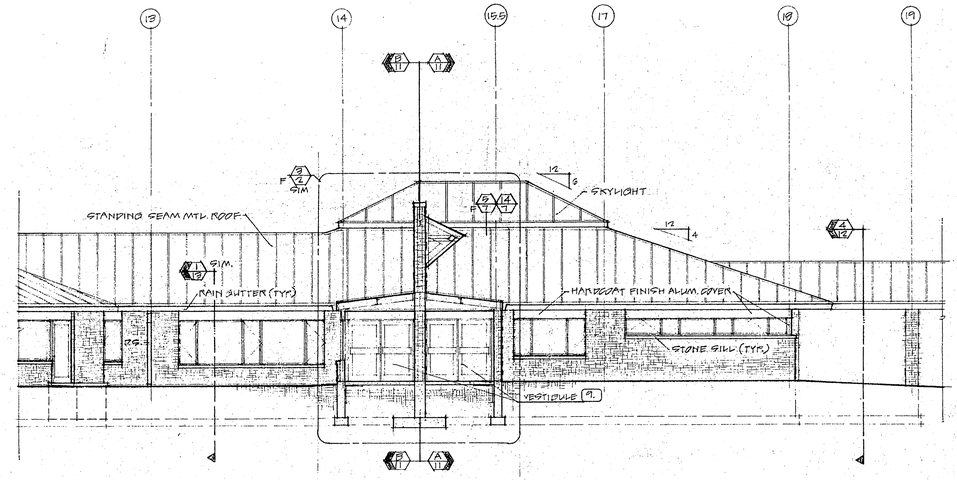
WOMEN'S & MEN'S FLOOR TILE SHALL BE 2"x2" PORCELAIN CERAMIC MOSAICS / MANUFACTURER'S LISTED.

WINDOW SCHEDULE

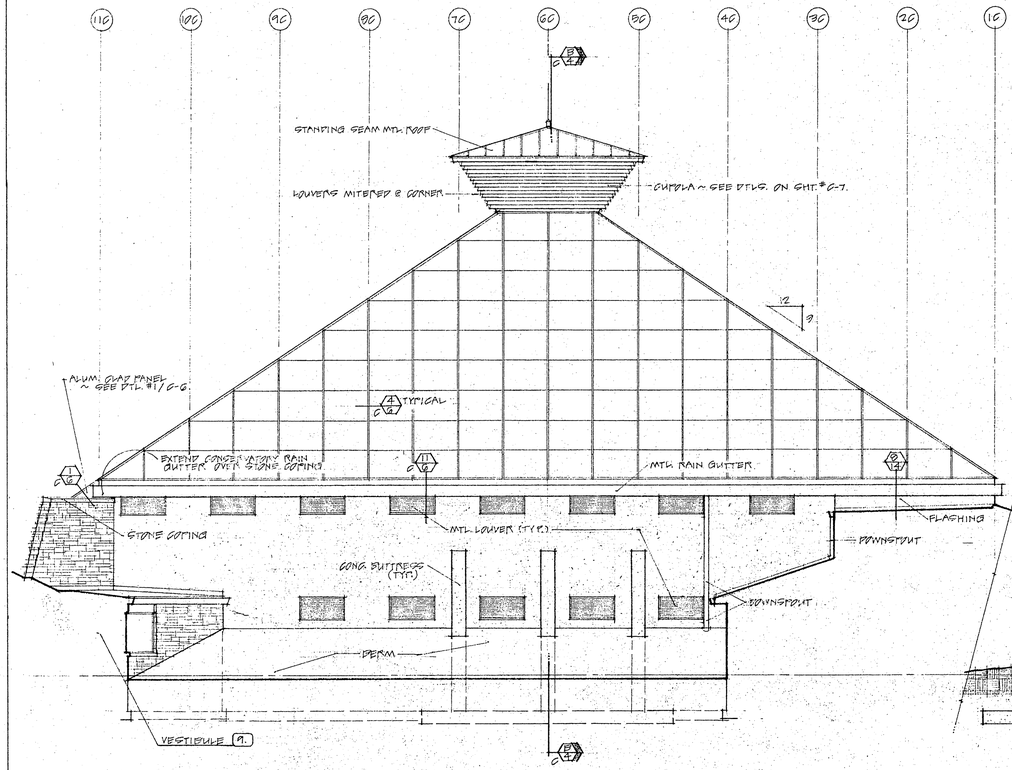
WINDOW NUMBER	TYPE	MANUFACTURER'S NO.	ROUGH OPENING	NOTES
1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40,



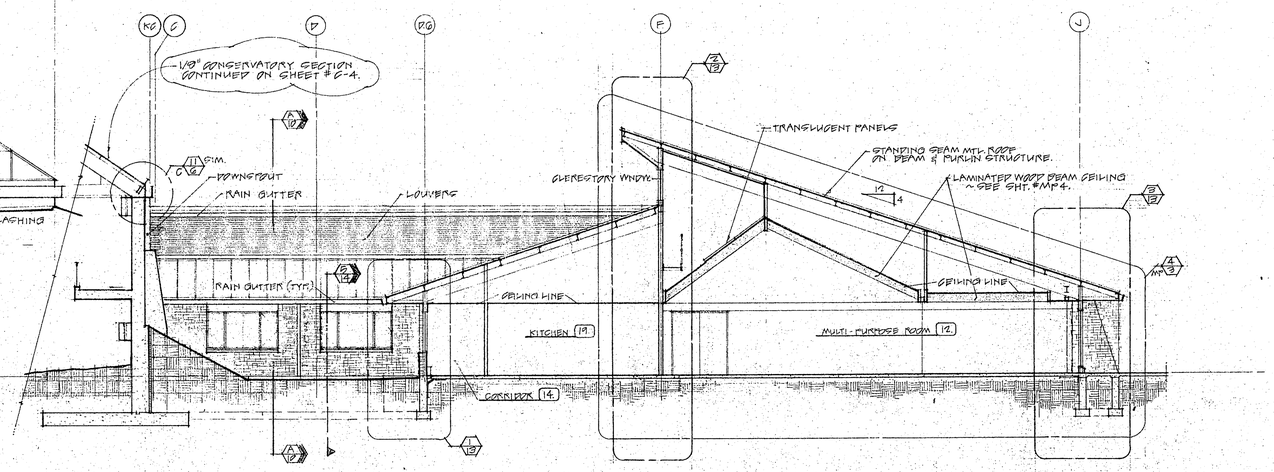
A-A. NORTHEAST COURTYARD ELEVATION & 1/8" BUILDING SECTION SCALE: 1/8"=1'-0"



B-B. EAST COURTYARD ELEVATION & 1/8" SECTION THRU VESTIBULE 9. SCALE: 1/8"=1'-0"



D-D. SOUTHWEST COURTYARD ELEVATION SCALE: 1/8"=1'-0"



C-C. NORTHWEST COURTYARD ELEVATION & 1/8" BUILDING SECTION SCALE: 1/8"=1'-0"

AS BUILT
AUGUST 1, 1992

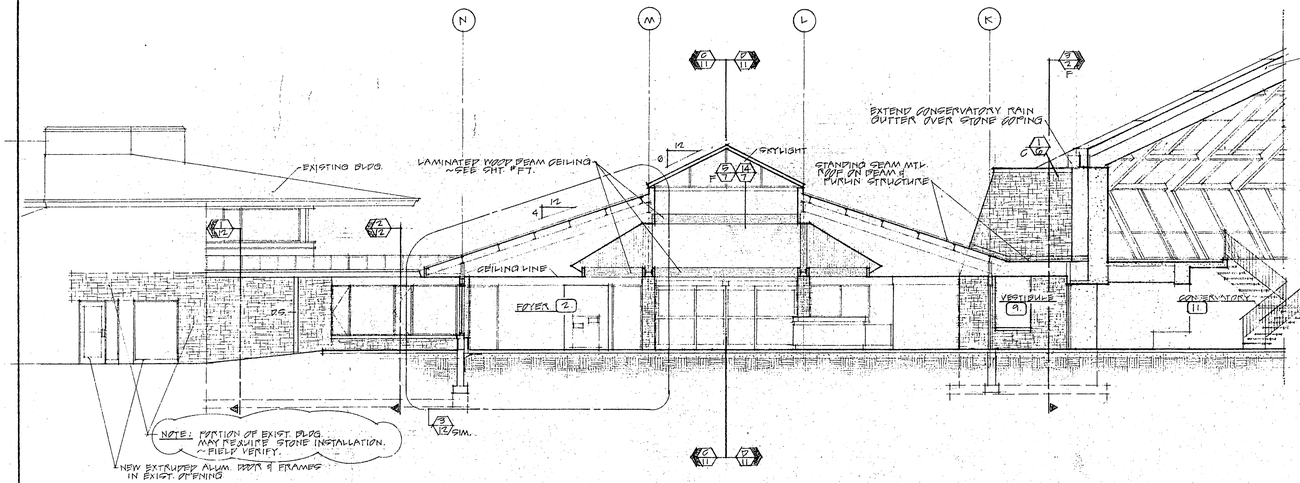
REVISED 4-14-89: DELETE STONE FACING @ CONSERV. SECT C-C & D-D.
11-18-88

STUART WILLIAM GALLAHER, ARCHITECT, INC.
702 NORTH BLACKHAWK AVENUE • MADISON, WISCONSIN

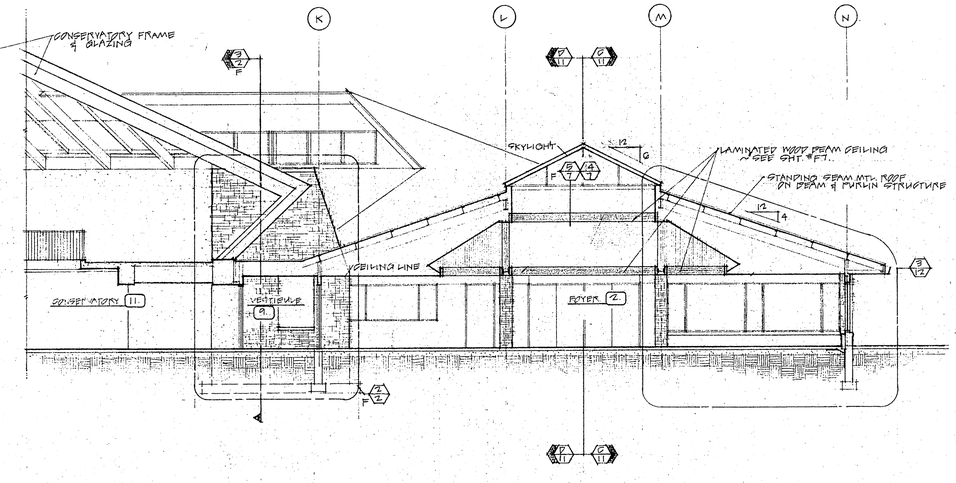
OLBRICH BOTANICAL COMPLEX
3330 ATWOOD AVENUE
MADISON, WISCONSIN

COURTYARD ELEVATIONS & 1/2" BUILDING SECTIONS.

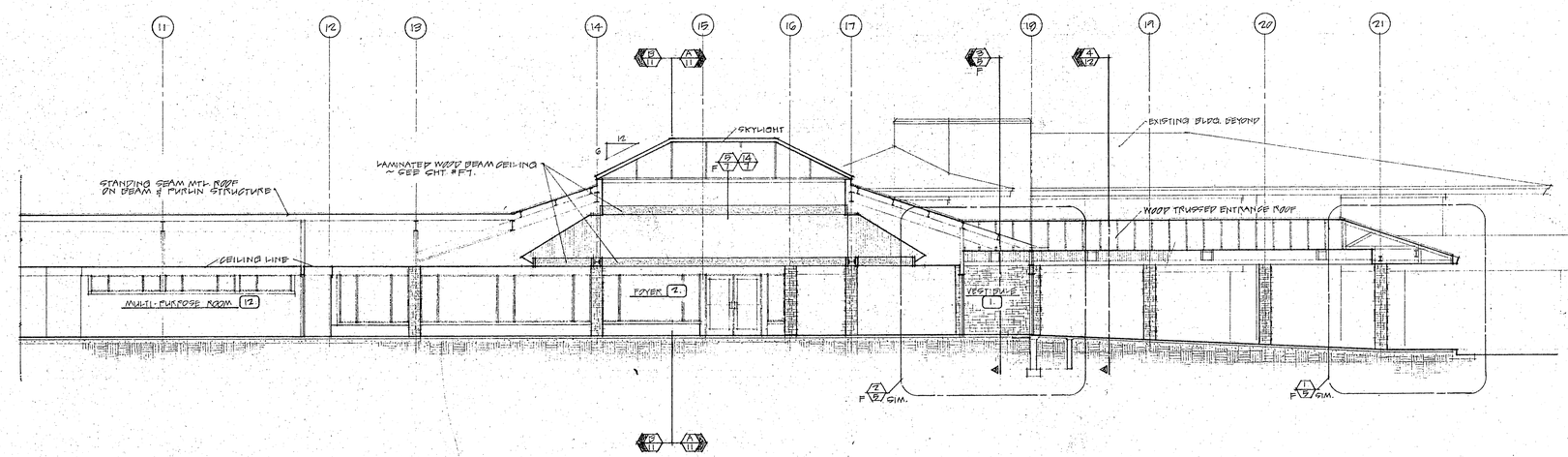
10.



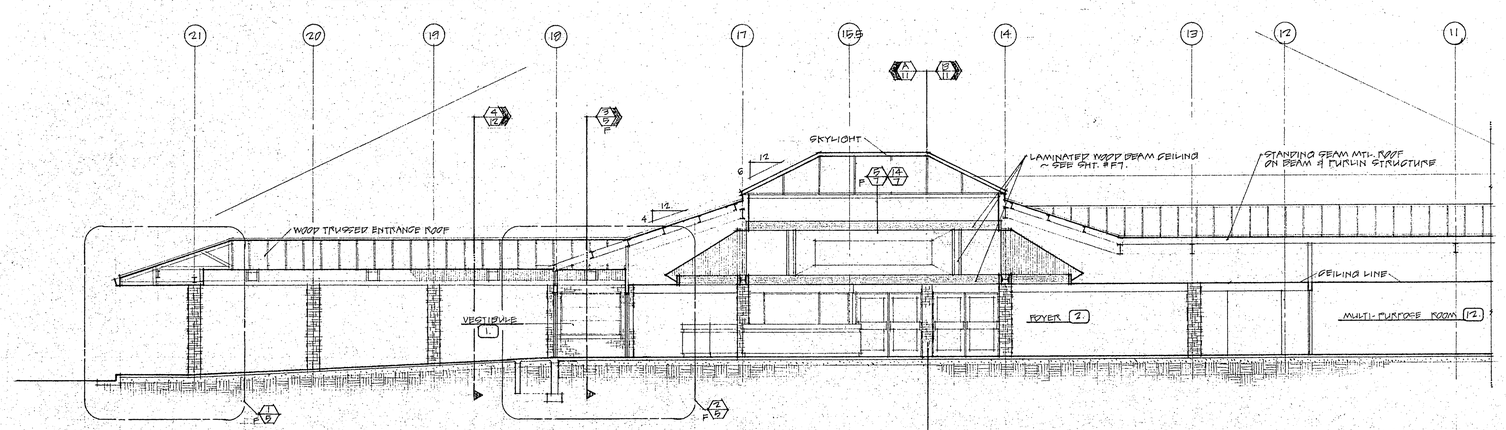
A-A. SECTION THRU FOYER ~ EAST TO WEST SCALE: 1/8"=1'-0"



B-B. SECTION THRU FOYER ~ EAST TO WEST SCALE: 1/8"=1'-0"



C-C. SECTION THRU FOYER & COVERED ENTRANCE WALK ~ NORTH TO SOUTH SCALE: 1/8"=1'-0"



D-D. SECTION THRU FOYER ~ NORTH TO SOUTH SCALE: 1/8"=1'-0"

AS BUILT
AUGUST 1, 1992

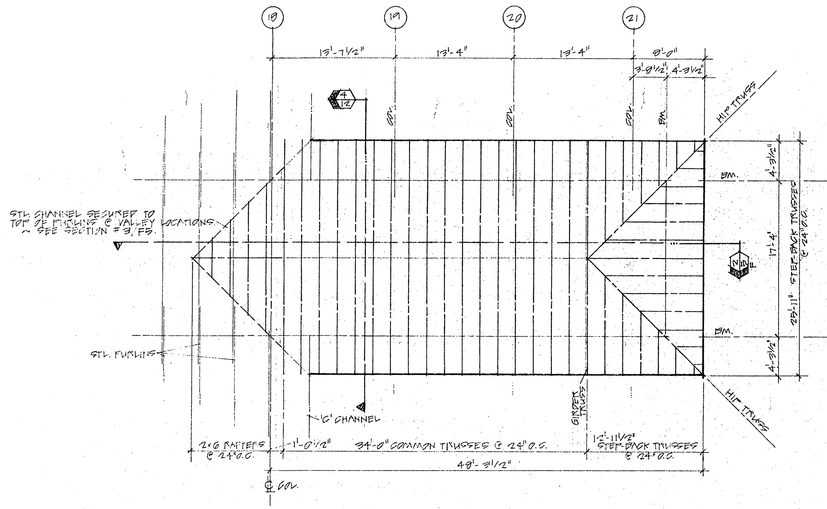
REVISED 4-14-89: DELETE STONE WALL @ FOYER #2, SECT. C-C; STONE FACING @ CTR. SECT. A-A
11-18-88

STUART WILLIAM GALLAHER, ARCHITECT, INC.
702 NORTH BLACKHAWK AVENUE • MADISON, WISCONSIN

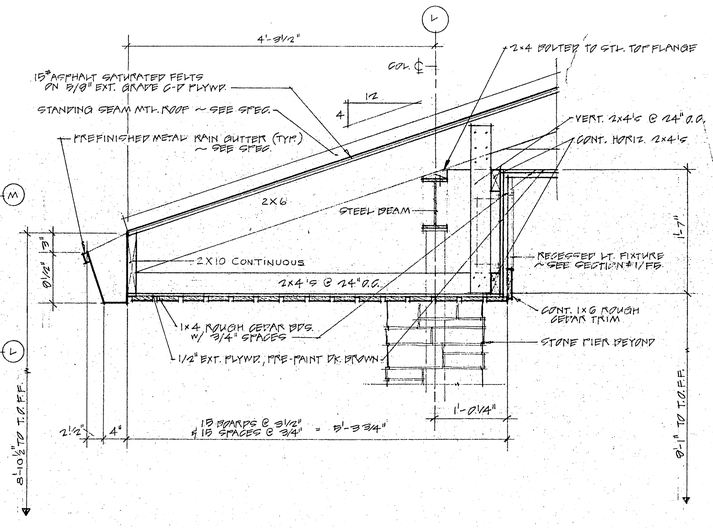
OLBRICH BOTANICAL COMPLEX
3330 ATWOOD AVENUE
MADISON, WISCONSIN

16" BUILDING SECTIONS •

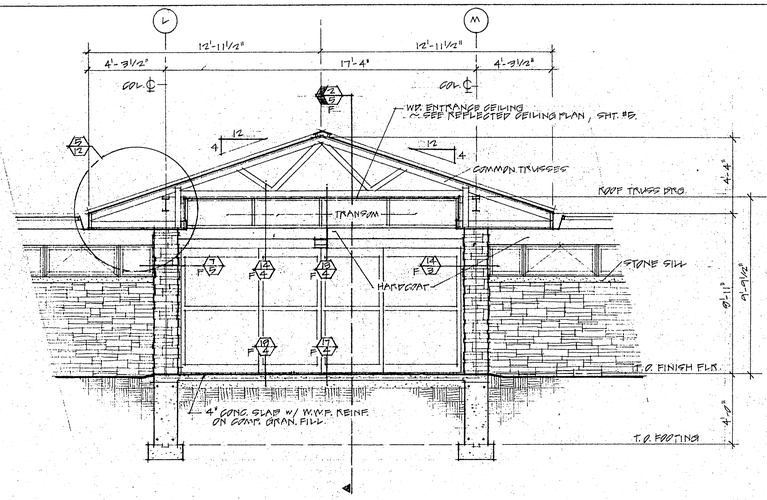
11.



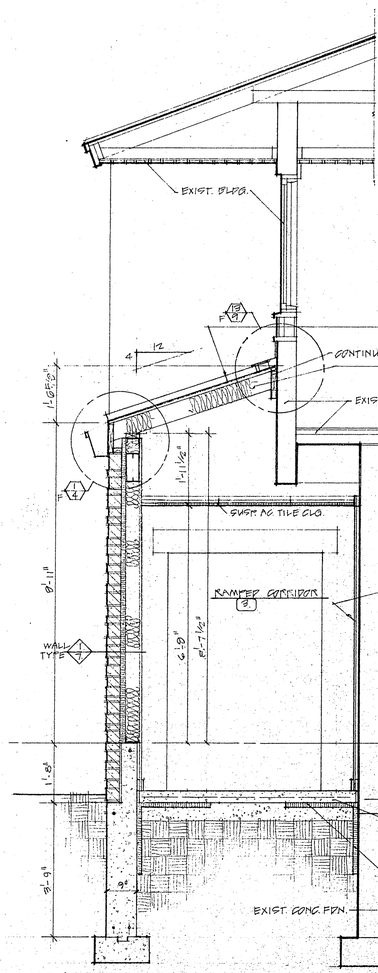
6. COVERED ENTRANCE WALK ROOF FRAMING PLAN — SCALE: 1/8"=1'-0"



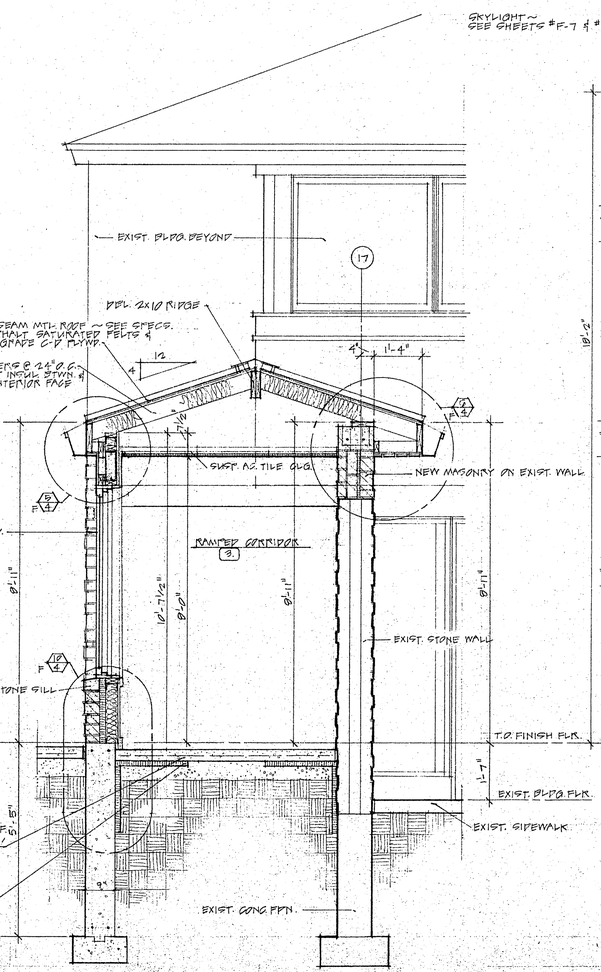
5. COVERED ENTRANCE WALK EAVE DTL. — 1" = 1'-0"



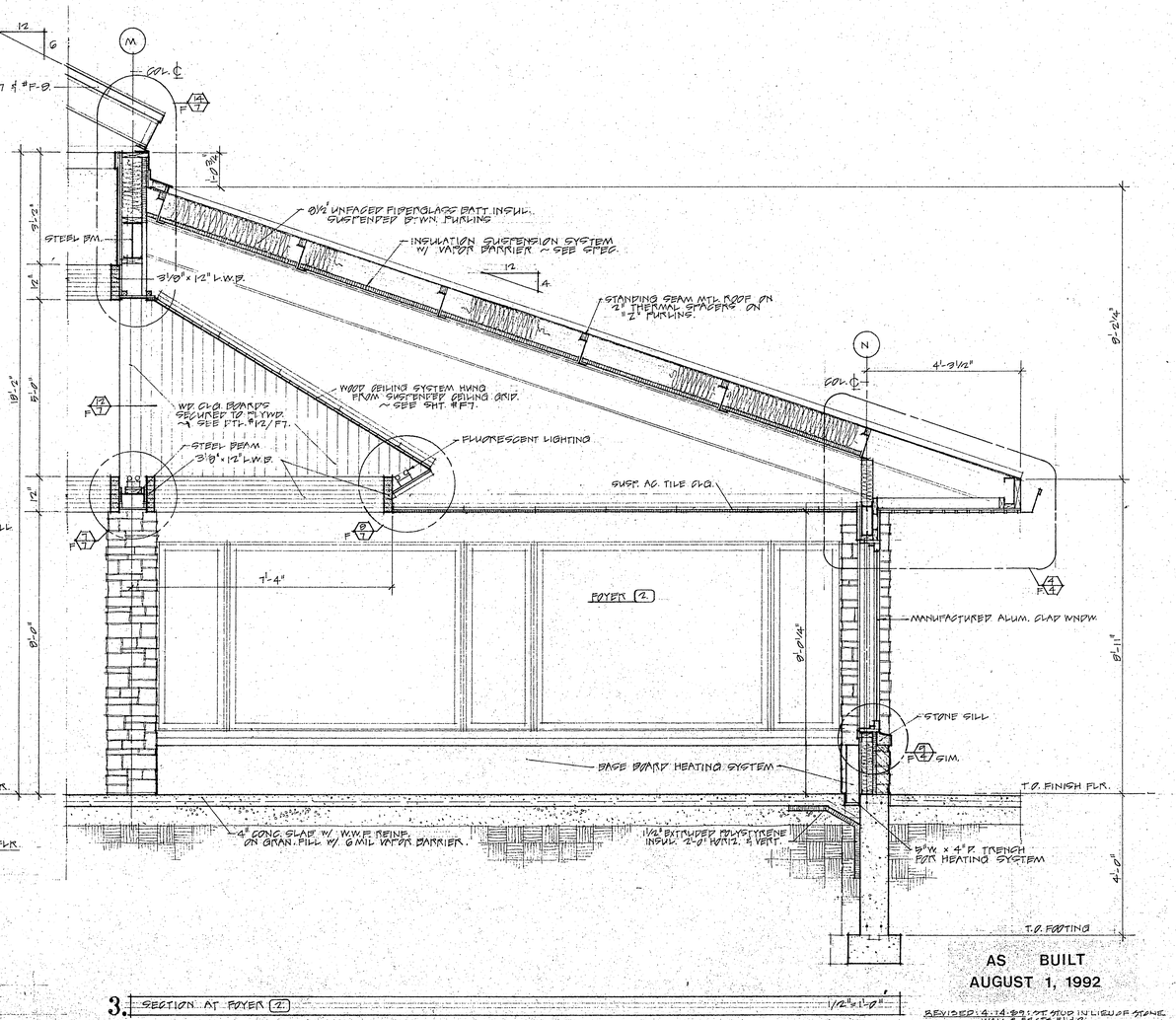
4. SECTION THRU COVERED ENTRANCE WALK — 1/4"=1'-0"



1. SECTION AT RAMPED CORRIDOR 3 — 1/2"=1'-0"



2. SECTION AT RAMPED CORRIDOR 3 — 1/2"=1'-0"



3. SECTION AT FOYER 2 — 1/2"=1'-0"

AS BUILT
AUGUST 1, 1992

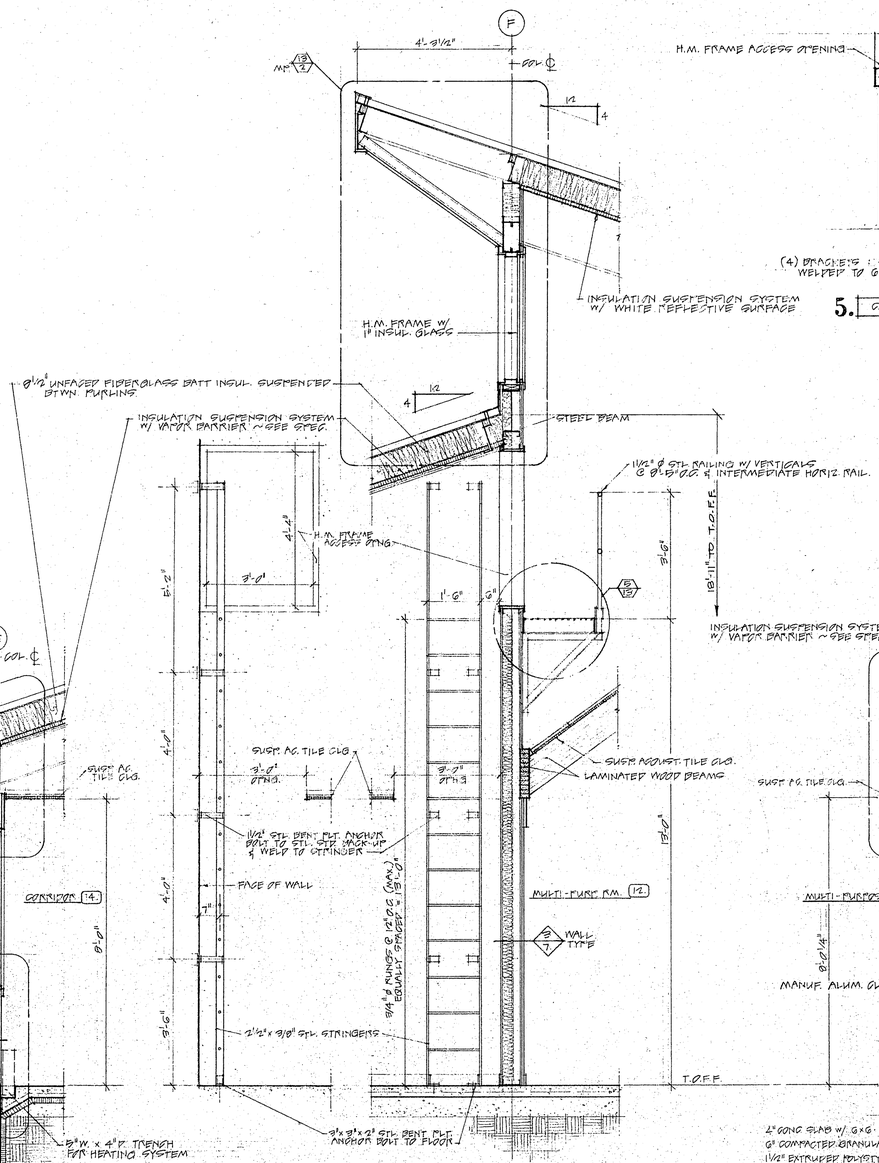
REVISED: 4-14-89: 2" STUD IN LIEU OF STONE WALL @ SECTS. 1 & 2.
11-18-88

COVERED ENTRANCE WALK: ROOF FRAMING PLAN • EAVE DTL. 1/4 SECTION • 1/2 RAMPED CORRIDOR # FOYER SECTIONS •

OLBRICH BOTANICAL COMPLEX
3330 ATWOOD AVENUE
MADISON, WISCONSIN

STUART WILLIAM & LLAHER, ARCHITECT, INC.
702 NORTH BLACKHAWK AVENUE
MADISON, WISCONSIN

12.



5. CATWALK DETAIL AT MULTI-PURPOSE RM. (12) — 1 1/2" = 1'-0"

1. SECTION AT CORRIDOR (14) ~ TYPICAL WALL — 1/2" = 1'-0"

2A. CATWALK ACCESS LADDER — 1/2" = 1'-0"

2. WALL SECTION @ CLERESTORY WINDOW — 1/2" = 1'-0"

3. WALL SECTION @ MULTI-PURPOSE RM. (12) — 1/2" = 1'-0"

4. WALL SECTION @ WORKROOM (34) — 1/2" = 1'-0"

AS BUILT
AUGUST 1, 1992

11-18-88

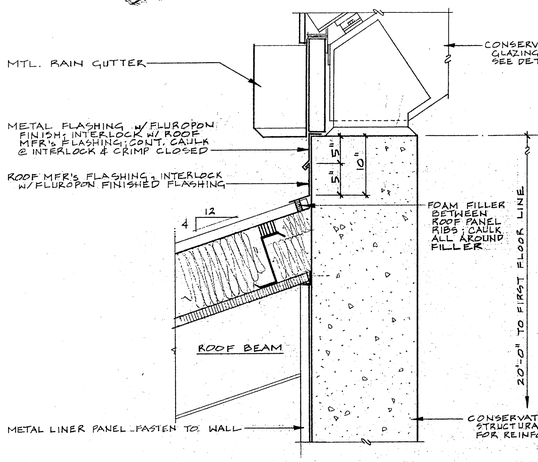
1/2" WALL SECTIONS & CORR. DOR. (14), CLERE-STORY, MULTI-PURPOSE RM. (12) & WORKROOM (34) & CATWALK DTL. & MULTI-PURPOSE RM.

OLBRICH BOTANICAL COMPLEX
MADISON, WISCONSIN

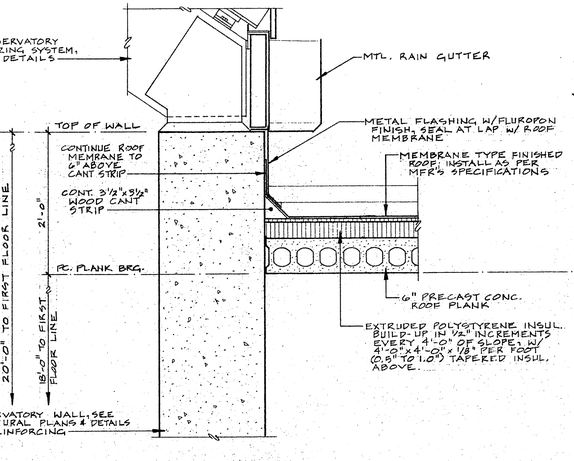
STUART WILLIAM GALLAHER, ARCHITECT, INC.
702 NORTH BLACKHAWK AVENUE • MADISON, WISCONSIN

330 ATWOOD AVENUE

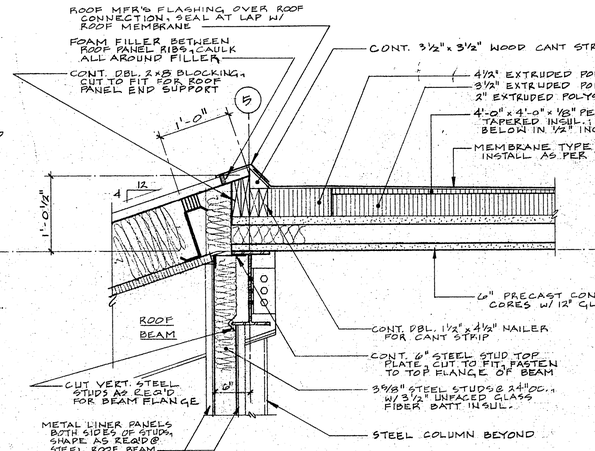
13.



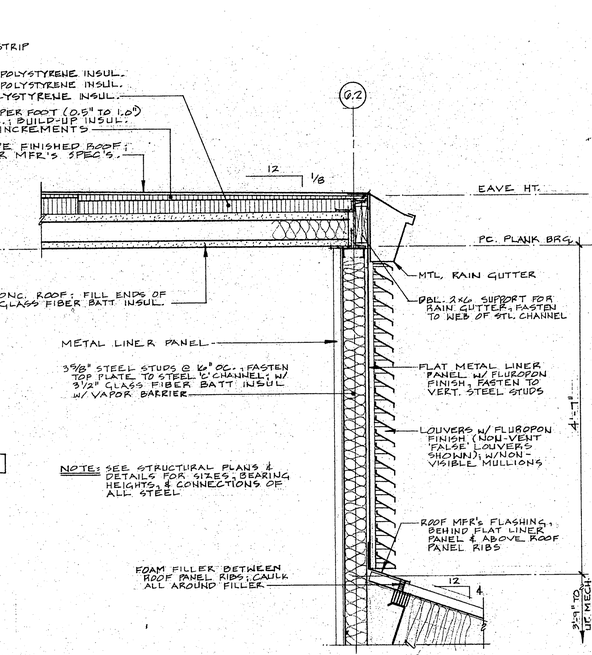
9. ROOF DETAIL AT HEADHOUSE (31) & CONSERVATORY WALL 1" = 1'-0"



8. ROOF DETAIL AT MECH. RM. (46) & CONSERVATORY WALL 1" = 1'-0"

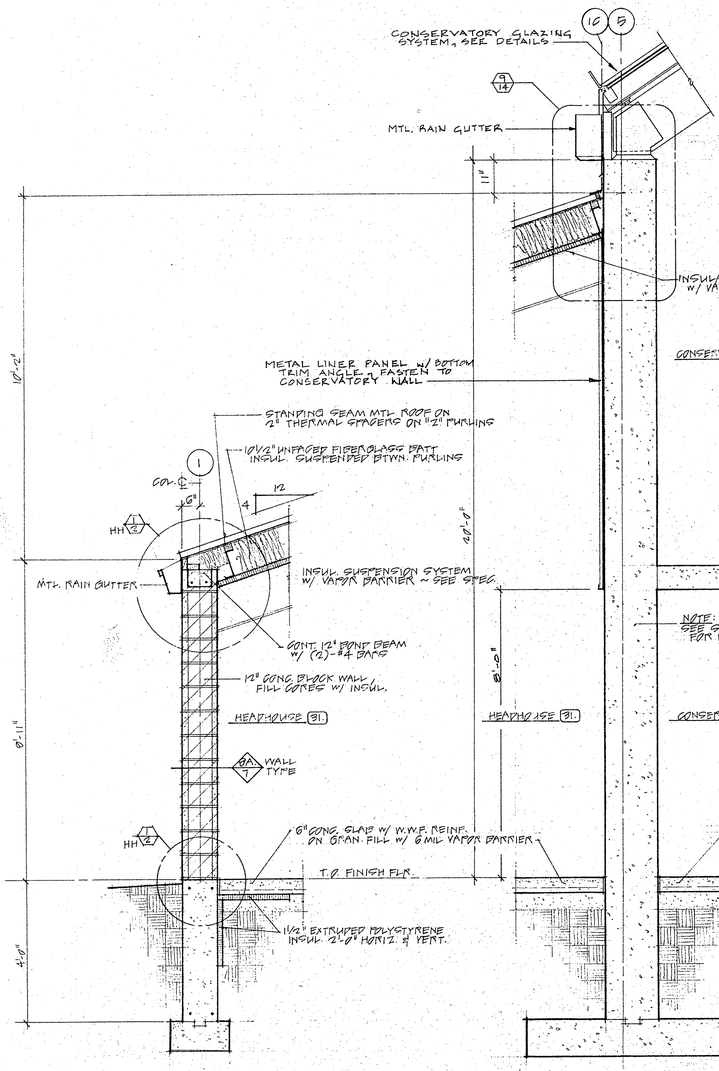


7. ROOF CONNECTION AT MECHANICAL ROOM (46) 1" = 1'-0"

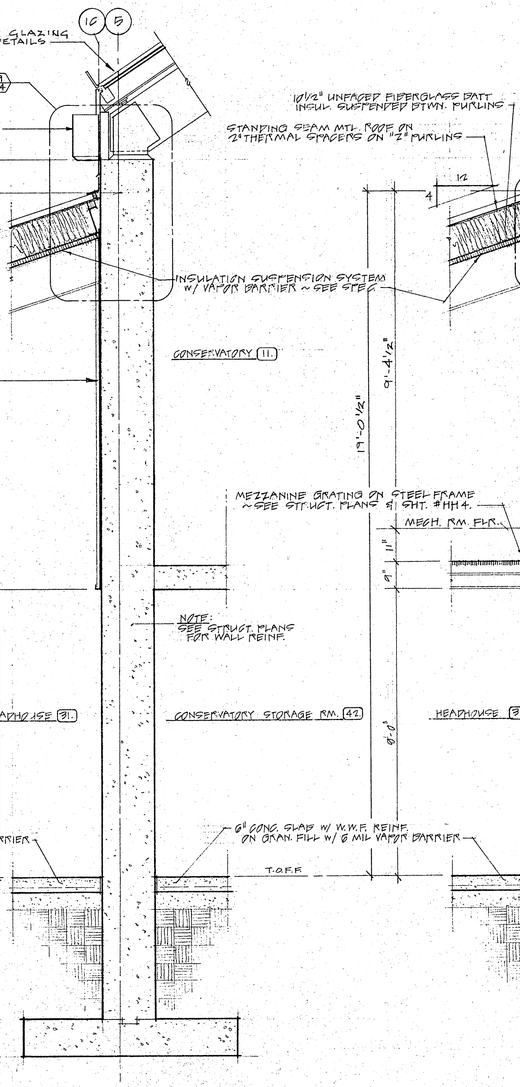


NOTE: SEE STRUCTURAL PLANS & DETAILS FOR SIZES, BEARING HEIGHTS, & CONNECTIONS OF ALL STEEL

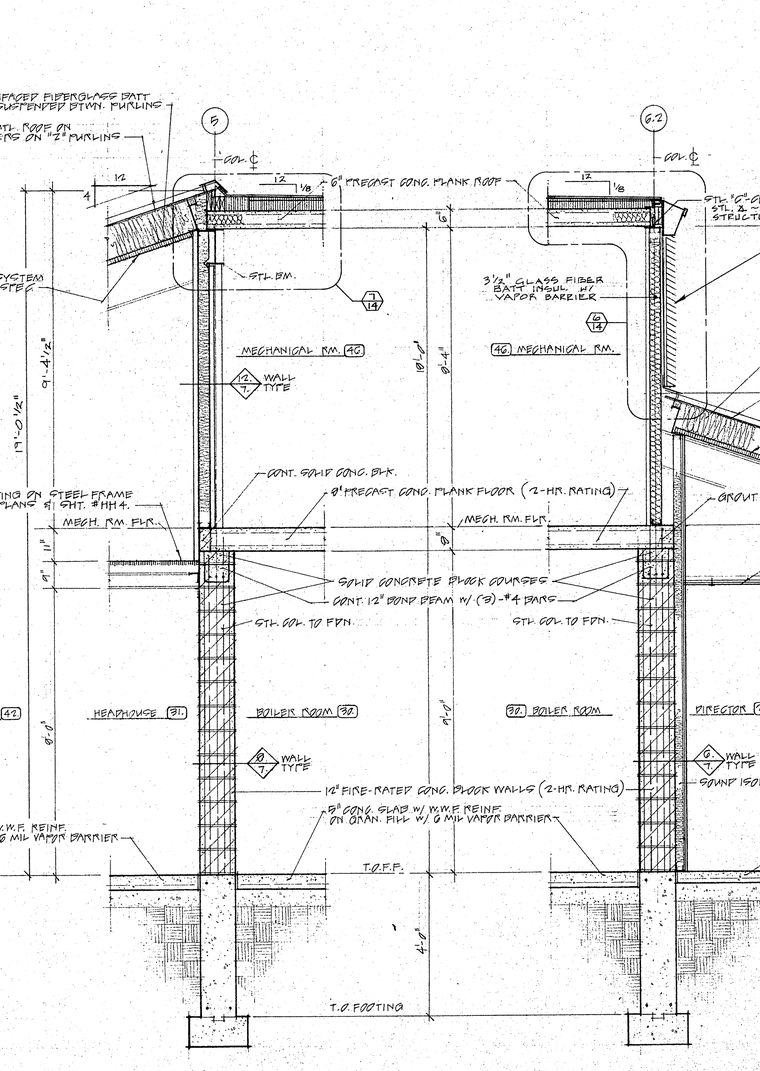
6. EAVE DETAIL AT MECHANICAL ROOM (46) 1" = 1'-0"



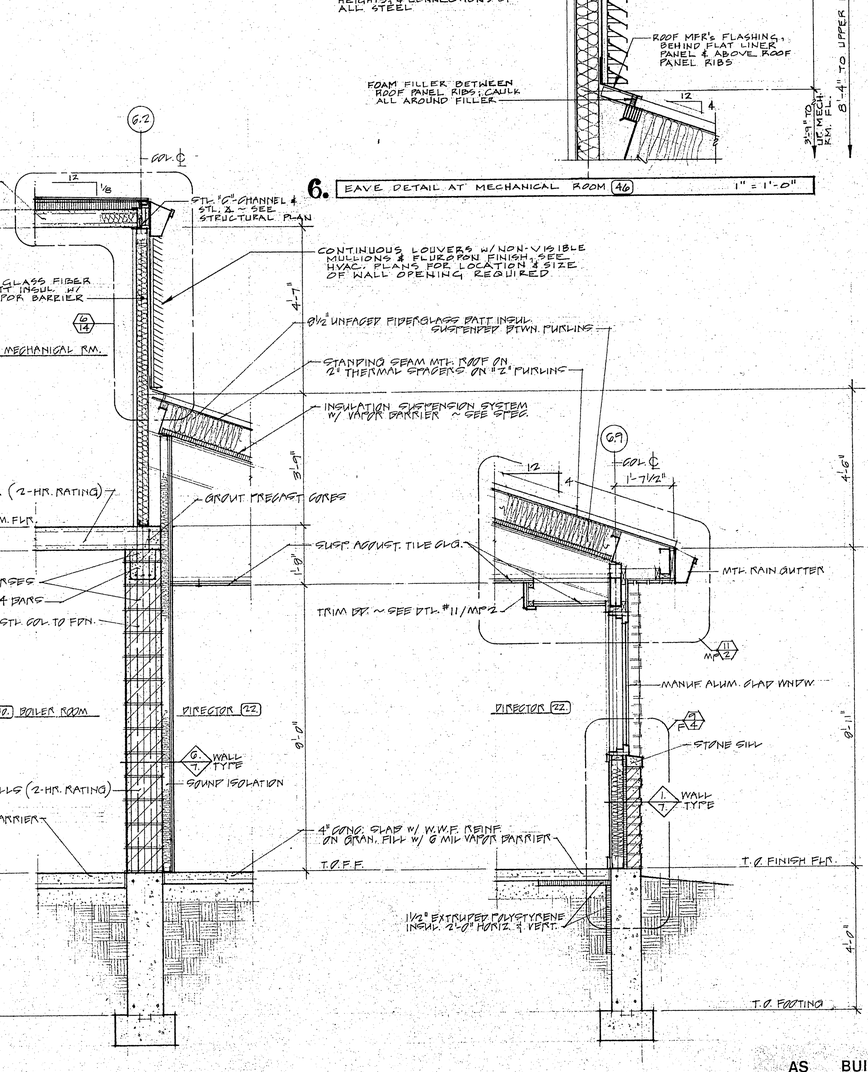
1. SECTION AT HEADHOUSE (31) 1/2" = 1'-0"



2. SECTION AT CONSERVATORY (11) 1/2" = 1'-0"



3. SECTION AT BOILER ROOM (30) 1/2" = 1'-0"



4. SECTION AT BOILER ROOM (30) 1/2" = 1'-0"

5. SECTION AT DIRECTOR OFFICE (22) 1/2" = 1'-0"

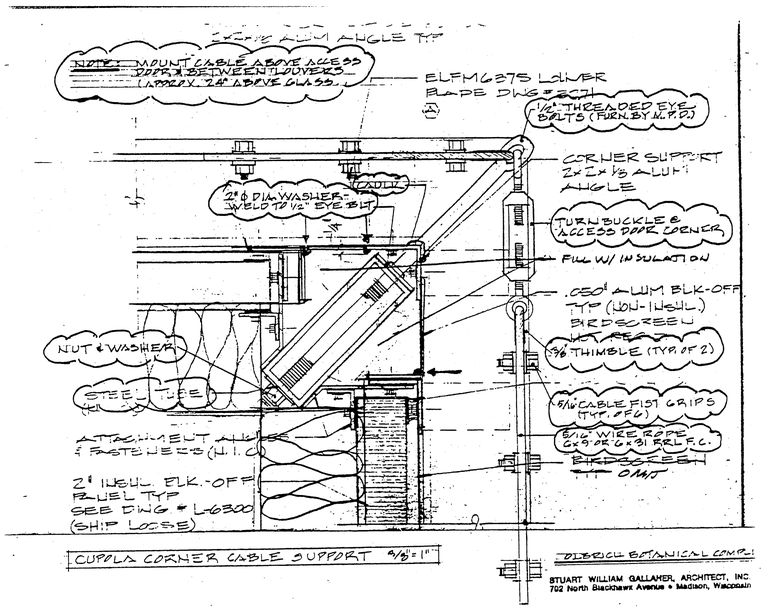
AS BUILT
AUGUST 1, 1992
11-18-88

STUART WILLIAM GALLAHER, ARCHITECT, INC.
702 NORTH BLACKHAWK AVENUE • MADISON, WISCONSIN

OLBRICH BOTANICAL COMPLEX
2330 ATWOOD AVENUE
MADISON, WISCONSIN

MISC. ROOF & EAVE DETAILS & HEADHOUSE, CONSERVATORY & MECH. RM. ½ WALL SECTIONS & ELEVATIONS
GENERATOR, BOILER RM., & DIRECTOR'S OFFICE

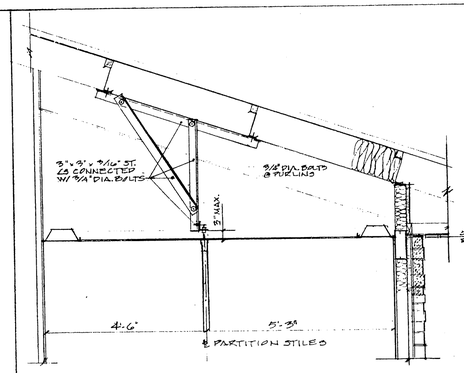
14.



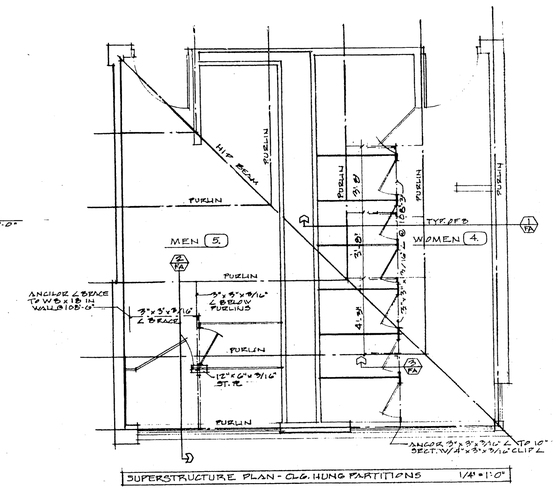
CUPOLA CORNER CABLE SUPPORT 3/8"=1"

OLBRICH BOTANICAL COMPLEX

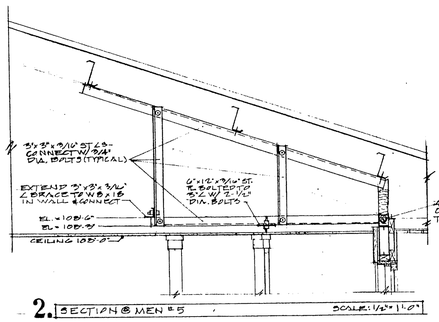
STUART WILLIAM GALLAHER, ARCHITECT, INC.
702 North Blackhawk Avenue • Madison, Wisconsin



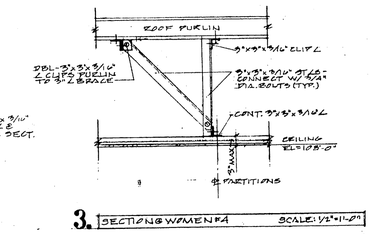
1. SECTION @ WOMEN #4 SCALE: 1/2"=1'-0"



SUPERSTRUCTURE PLAN - CLG. HUNG PARTITIONS 1/4"=1'-0"



2. SECTION @ MEN #5 SCALE: 1/2"=1'-0"



3. SECTION @ WOMEN #4 SCALE: 1/2"=1'-0"

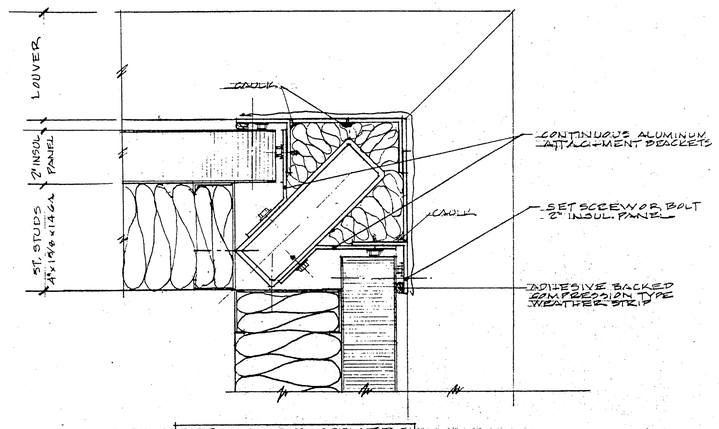
6-2-89

STUART WILLIAM GALLAHER, ARCHITECT, INC.
702 North Blackhawk Avenue • Madison, Wisconsin

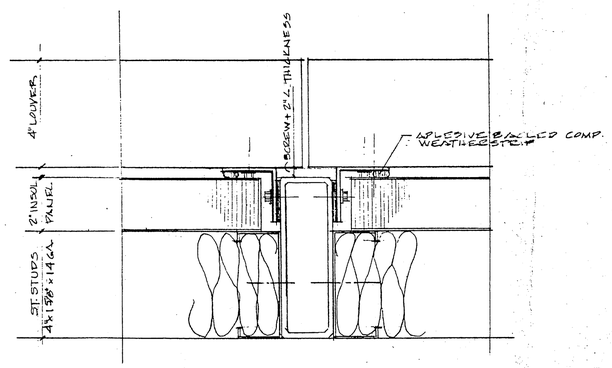
OLBRICH BOTANICAL COMPLEX
3330 ATWOOD AVENUE, MADISON, WISCONSIN

SUPERSTRUCTURE FOR CEILING HUNG TOILET PARTITIONS P.M.S. 548-5.

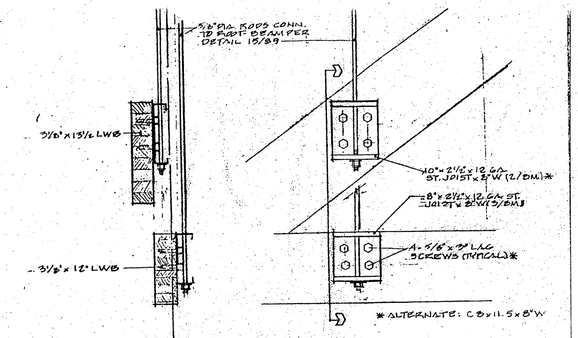
F-A



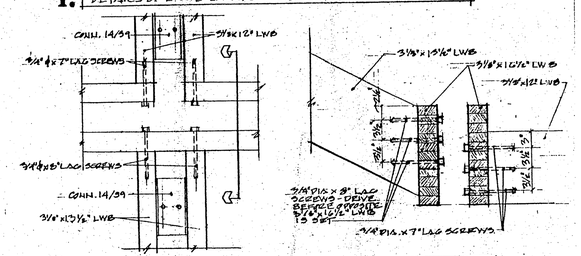
CUPOLA WALL - CORNERS 11-9-89



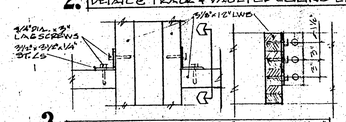
CUPOLA WALL DETAIL (TYPICAL) 11-9-89



1. DETAILS OF L.W.B CONN. @ GRID LINE #9 1"=1'-0"



2. DETAILS TRACK & VAULTED CEILING LWB JOININGS 1"=1'-0"



3. LWB JOINING @ SASH SOFFIT 1"=1'-0"

LWB JOININGS & MULTI-PURPOSE RM.
OLBRICH BOTANICAL COMPLEX

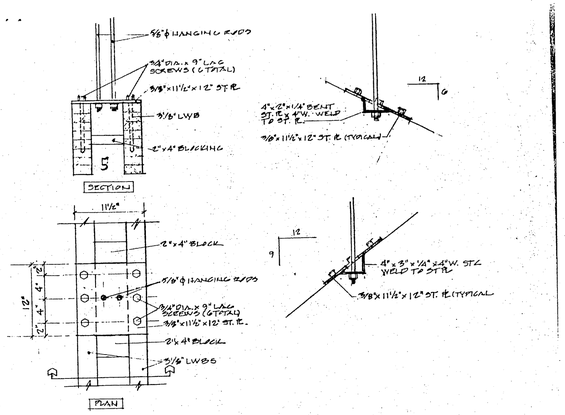
STUART WILLIAM GALLAHER, ARCHITECT, INC.
702 North Blackhawk Avenue • Madison, Wisconsin

1-19-90 X-1

AS BUILT
AUGUST 1, 1992

ADDITIONAL DETAILS RELEASED DURING CONSTRUCTION

15.

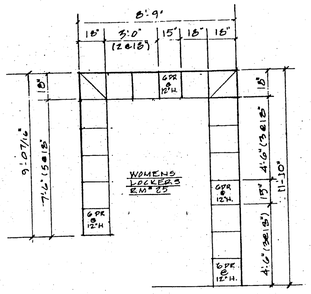


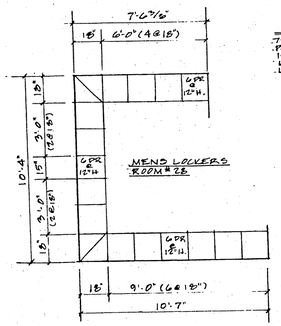
MULTI PURPOSE P.M. BEAM SUPPORT CANN. (CAP. = 28,500#) 1"=1'-0"

OLBRICH BOTANICAL COMPLEX

STUART WILLIAM GALLAHER, ARCHITECT, INC.
702 North Blackhawk Avenue • Madison, Wisconsin

1-23-90 **X-2**



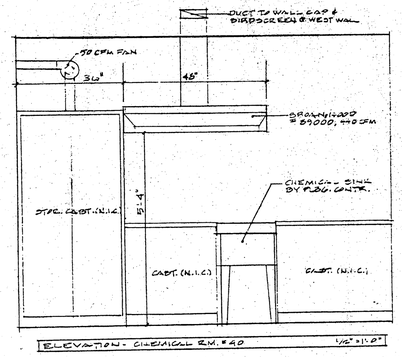


• NOTE •
ALL DOORS SHALL HAVE DOUBLE ATTACHMENTS & 12"H. DOOR'S SHALL HAVE KEYED LOCKS. LOCKER COLOR = "PUTTY" OR

OLBRICH BOTANICAL COMPLEX

STUART WILLIAM GALLAHER, ARCHITECT, INC
702 North Blackhawk Avenue • Madison, Wisconsin

X-3.

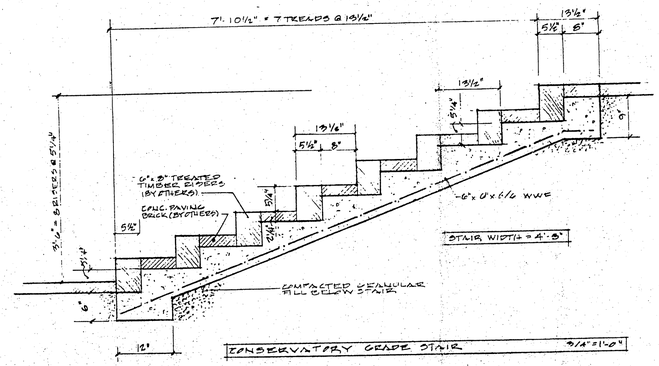


ELEVATION - CHEMICAL RM. #20 1½"=1'-0"

CHEMICAL ROOM EXHAUST FANS
OLBRICH BOTANICAL COMPLEX

Stuart William Gallaher, Architect, Inc.
702 North Blackhawk Avenue
MADISON, WISCONSIN 53705
(608) 238-0991

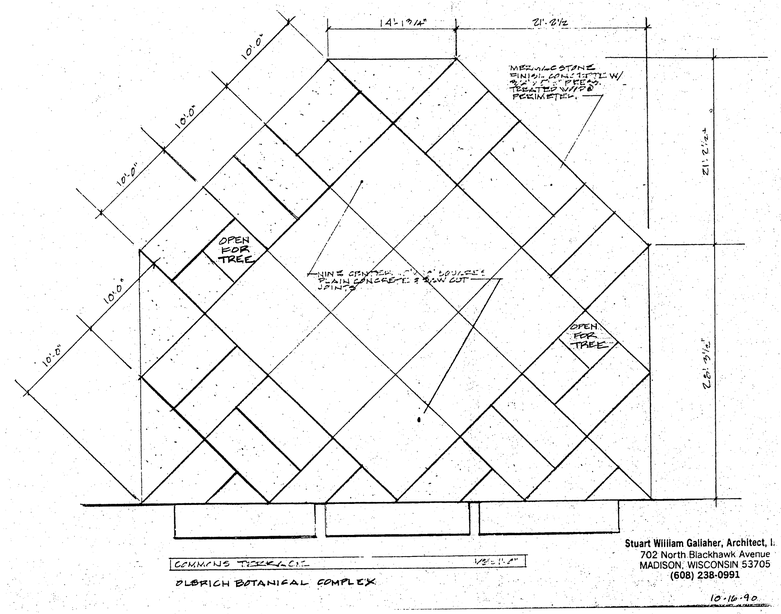
3-28-90 **X-4**



OLBRICH BOTANICAL COMPLEX

STUART WILLIAM GALLAHER, ARCHITECT, INC.
702 North Blackhawk Avenue • Madison, Wisconsin

4-6-90 **X-8.**



COMMONS TERRACE 1/8"=1'-0"

OLBRICH BOTANICAL COMPLEX

Stuart William Gallaher, Architect, I.
702 North Blackhawk Avenue
MADISON, WISCONSIN 53705
(608) 238-0991

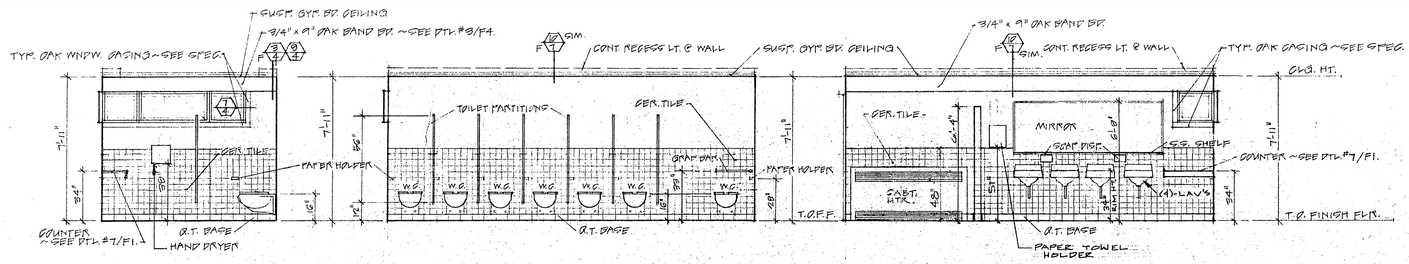
10-16-90

AS BUILT
AUGUST 1, 1992

OLBRICH BOTANICAL COMPLEX
3330 ATWOOD AVENUE
MADISON, WISCONSIN

ADDITIONAL DETAILS RELEASED DURING CONSTRUCTION

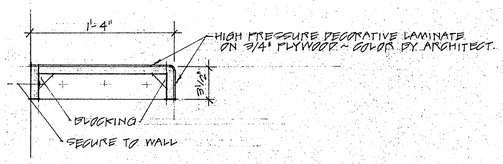
16.



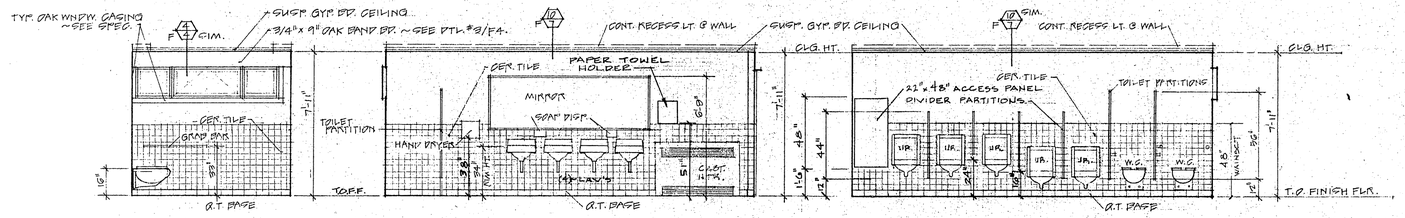
1. WOMEN (4) SOUTH 1/4"=1'-0"

2. WOMEN (4) WEST ELEV. 1/4"=1'-0"

3. WOMEN (4) EAST ELEV. 1/4"=1'-0"



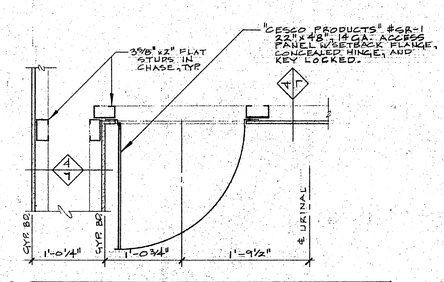
7. CHANGING COUNTER 1 1/2"=1'-0"



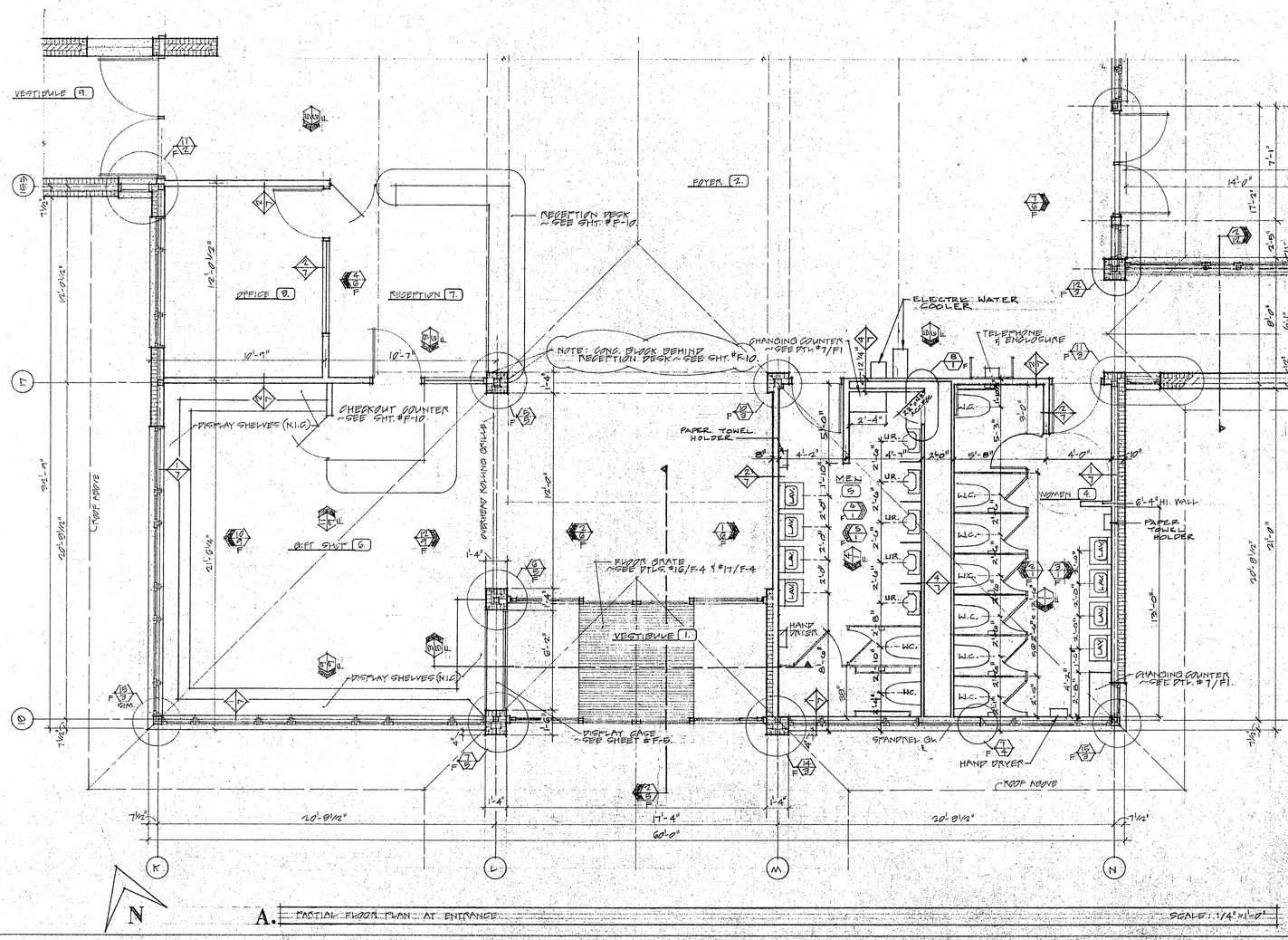
4. MEN (5) SOUTH 1/4"=1'-0"

5. MEN (5) WEST ELEV. 1/4"=1'-0"

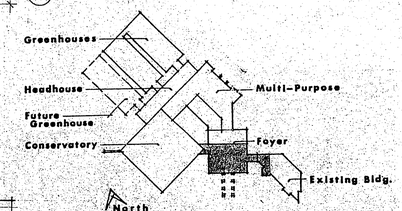
6. MEN (5) EAST ELEV. 1/4"=1'-0"



8. ACCESS DOOR DETAIL 1"=1'-0"



A. PARTIAL FLOOR PLAN ~ AT ENTRANCE SCALE: 1/4"=1'-0"



AS BUILT
AUGUST 1, 1992

6-9-89: CHANGED ACCESS PANEL SIZE @ ROOM #5 & DETAIL #6; ADDED DETAIL #8

5-22-89: REVISED ROOM #4 & 5, AND DETAILS #1 THRU 6.

REVISED 4-14-89: REMOVE STONE FACING & TYP. #2, & CODE #3; 48" H. TILE WAINSCOT @ TYPS. 1, 2, 3, 4, 5 & 6.

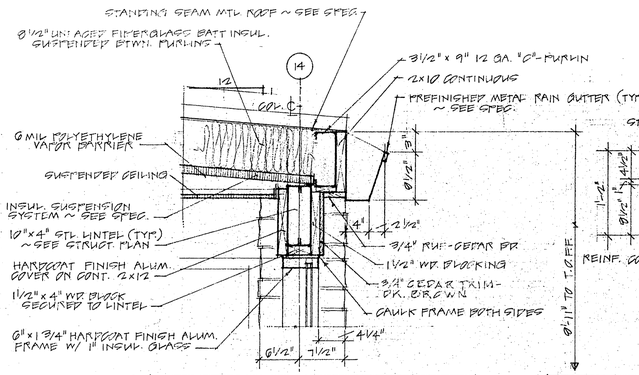
11-18-88

STUART WILLIAM GALLAHER, ARCHITECT, INC.
702 NORTH BLACKHAWK AVENUE MADISON, WISCONSIN

OLBRICH BOTANICAL COMPLEX
3330 ATWOOD AVENUE MADISON, WISCONSIN

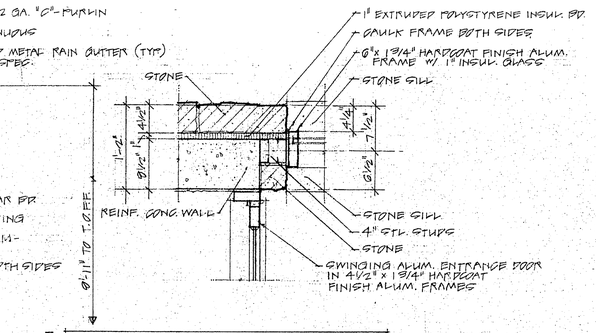
TOILET ROOM INTERIOR ELEVATIONS • CHANGING COUNTER DTL. • PARTIAL FLOOR PLAN & ENTRANCE

F-1.



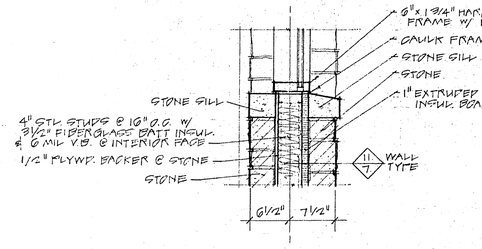
4. WINDOW HEAD AT VESTIBULE (9.) 1"=1'-0"

◆ JAMB DTL. #B/F2. & #11/F2. & SILL DTL. #B/F2.



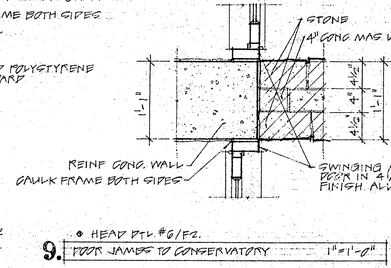
5. WINDOW JAMB AT VESTIBULE (9.) 1"=1'-0"

◆ HEAD DTL. #4/F2. & SILL DTL. #B/F2.



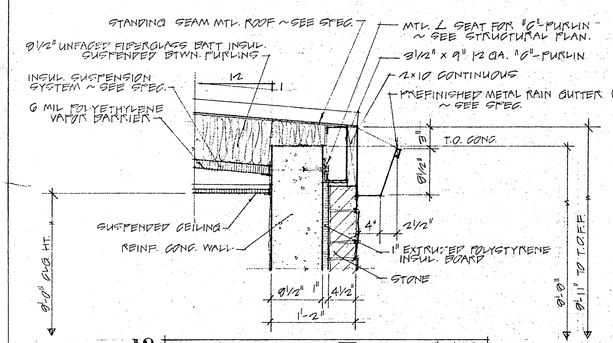
8. WINDOW SILL AT VESTIBULE (9.) 1"=1'-0"

HEAD DTL. #4/F2 & JAMB DTLS. #B/F2 & #11/F2

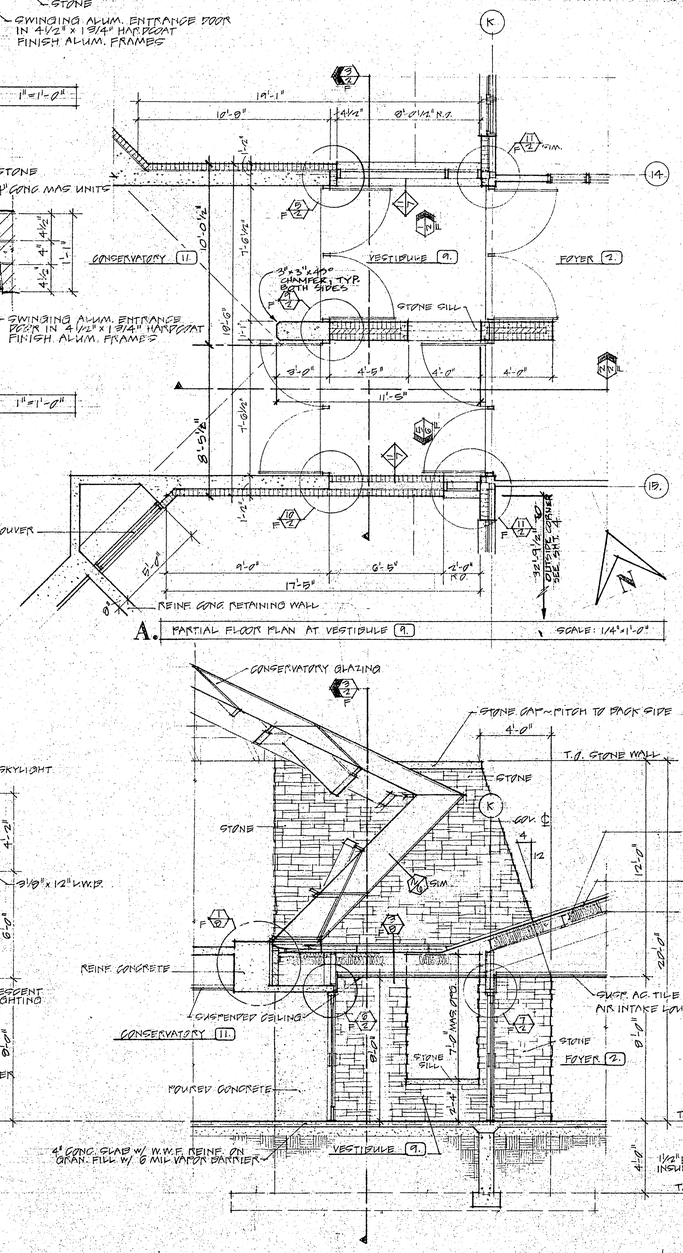


◆ HEAD DTL. #6/F2.

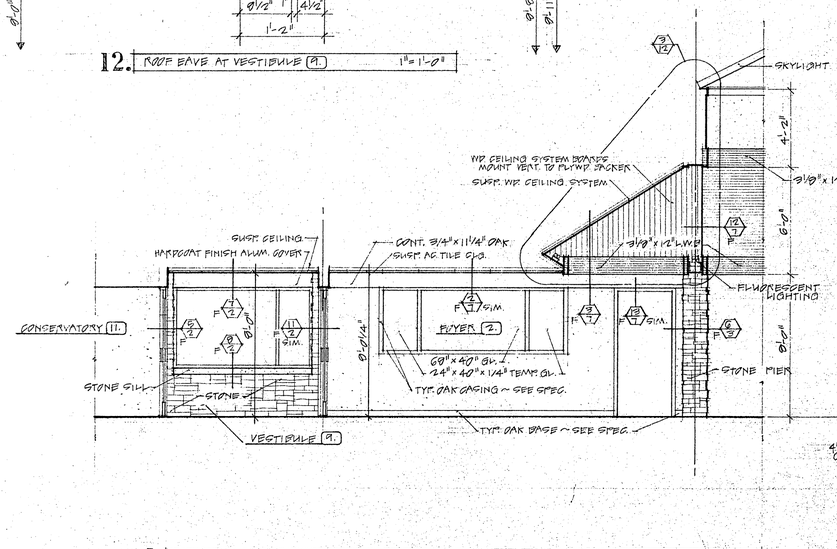
9. DOOR JAMBS TO CONSERVATORY 1"=1'-0"



12. ROOF EAVE AT VESTIBULE (9.) 1"=1'-0"

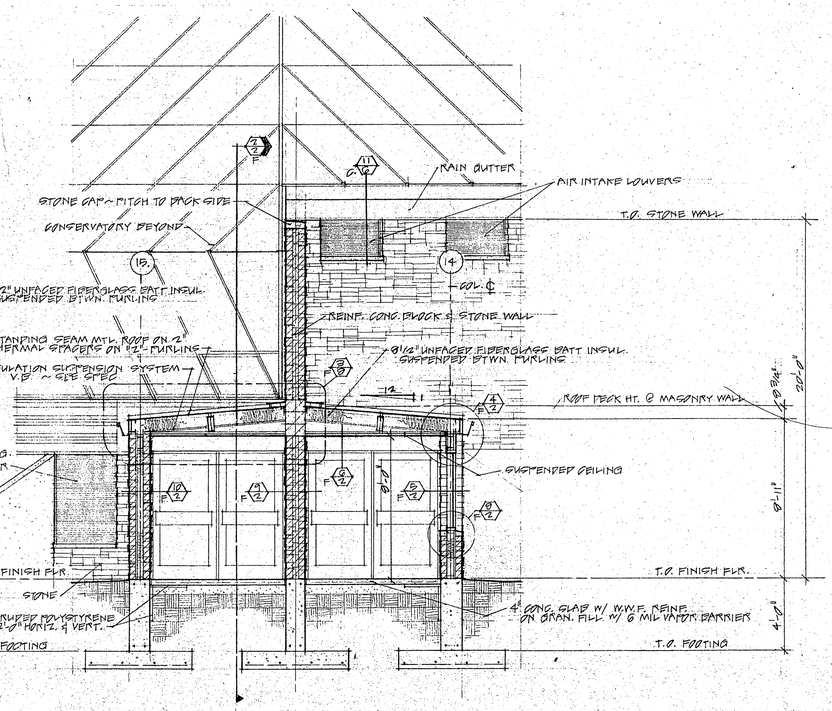


A. PARTIAL FLOOR PLAN AT VESTIBULE (9.) SCALE: 1/4"=1'-0"

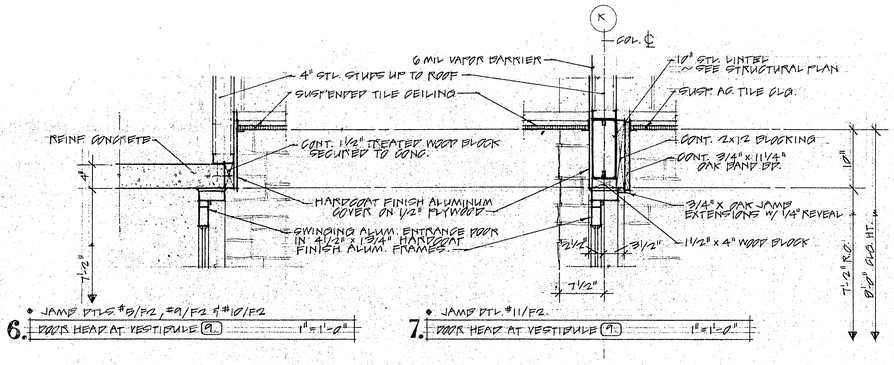


1. VESTIBULE (9.) AND FOYER (2.) NORTH ELEV. 1/4"=1'-0"

2. LONGITUDINAL SECTION THRU VESTIBULE (9.) SCALE: 1/4"=1'-0"



3. TRANSVERSE SECTION THRU VESTIBULE (9.) SCALE: 1/4"=1'-0"

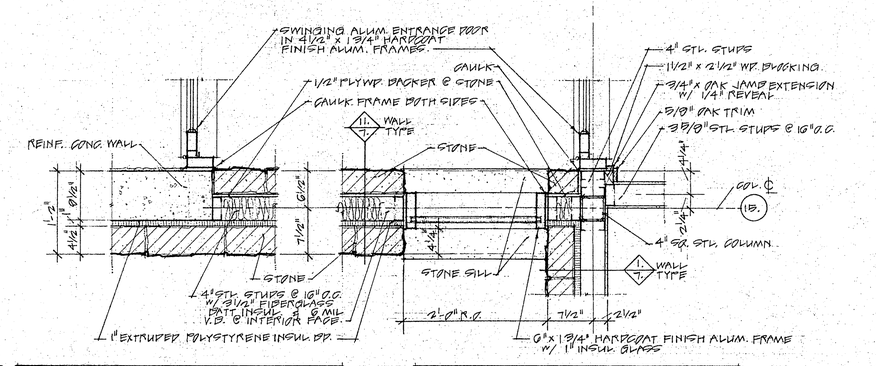


◆ JAMB DTLS. #B/F2, #9/F2 & #10/F2

6. DOOR HEAD AT VESTIBULE (9.) 1"=1'-0"

◆ JAMB DTL. #11/F2.

7. DOOR HEAD AT VESTIBULE (9.) 1"=1'-0"



10. DOOR JAMB AT VESTIBULE (9.) 1"=1'-0"

◆ HEAD DTL. #6/F2.

11. WINDOW JAMB AT VESTIBULE (9.) 1"=1'-0"

◆ HEAD DTL. #4/F2. & SILL DTL. #B/F2.

AS BUILT
AUGUST 1, 1992

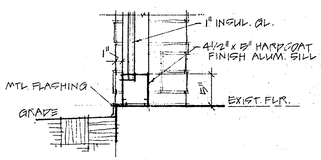
REVISED 4-14-89: 3/4" EXT. CEDAR TRIM, DET. #4
11-18-88

STUART WILLIAM GALLAHER, ARCHITECT, INC.
702 NORTH BLACKHAWK AVENUE • MADISON, WISCONSIN

OLBRICH BOTANICAL COMPLEX
3330 ATWOOD AVENUE
MADISON, WISCONSIN

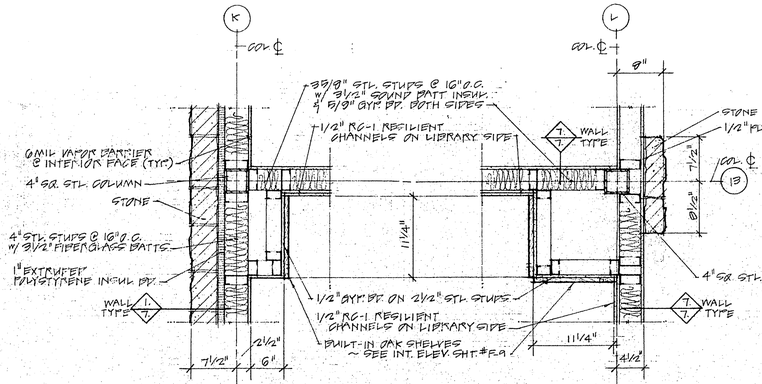
PARTIAL FLOOR PLAN & VESTIBULE (9.) • 1/4" SECTIONS THRU VESTIBULE (9.) • MISC. WINDOW & DOOR SILL, JAMB, & HEAD DTLS. @ VESTIBULE (9.)

F-2.



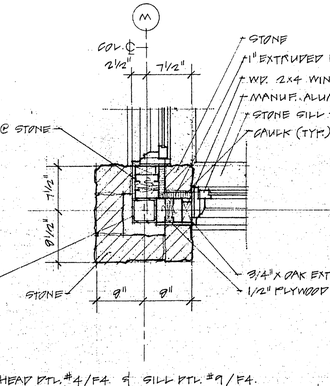
◆ JAMB DTLS. #5/F3 & #9/F3

5A. SILL DTL. 1"=1'-0"



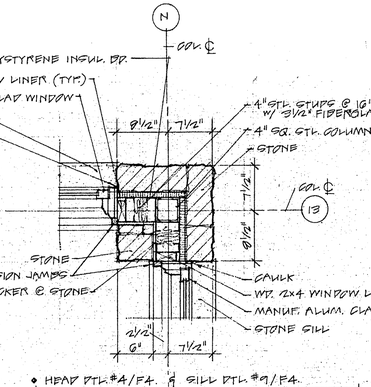
1. EXTERIOR COL. AT LIBRARY (10) 1"=1'-0"

2. INTERIOR COL. AT LIBRARY (10) 1"=1'-0"



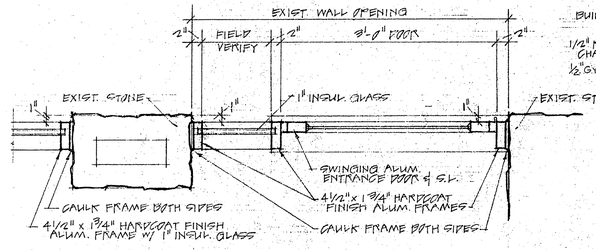
◆ HEAD DTL. #4/F4. & SILL DTL. #9/F4.

3. WINDOW JAMB AT FOYER (2) 1"=1'-0"



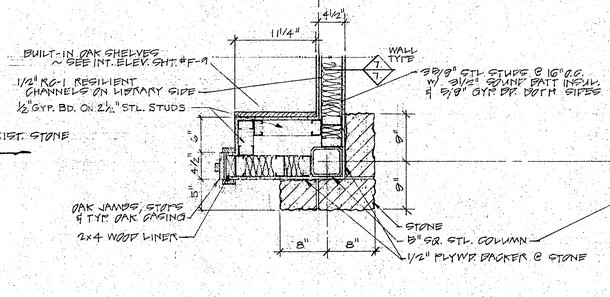
◆ HEAD DTL. #4/F4. & SILL DTL. #9/F4.

4. WINDOW JAMB AT FOYER (2) 1"=1'-0"

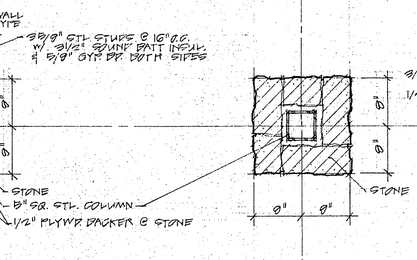


◆ SILL DTL. #5A/F3.

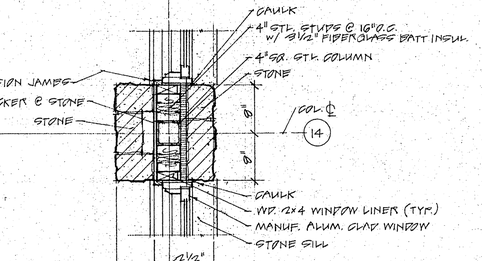
5. DOOR AT RAMPED CORRIDOR (3) ; PLAN 1"=1'-0"



6. INTERIOR COL. AT LIBRARY (10) 1"=1'-0"

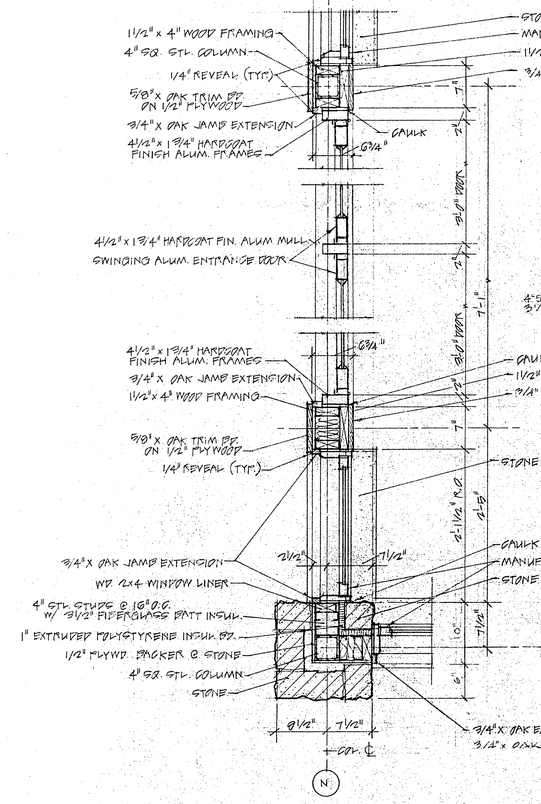


7. INTERIOR STONE PIER ; FOYER (2) 1"=1'-0"



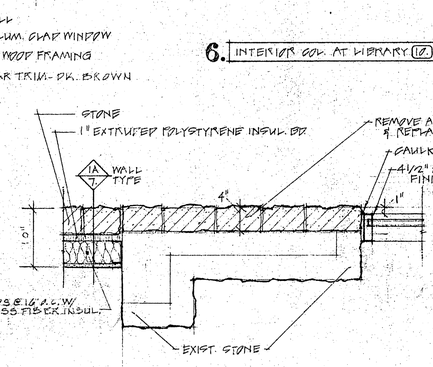
◆ HEAD DTL. #4/F4. & SILL DTL. #9/F4.

8. WINDOW JAMB AT FOYER (2) 1"=1'-0"



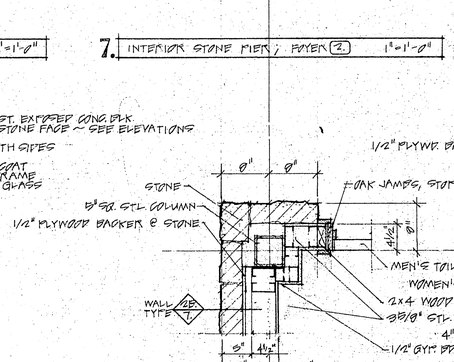
◆ HEAD DTL. #4/F4. & SILL DTL. #9/F4.

12. DOOR & WINDOW JAMBS AT FOYER (2) 1"=1'-0"



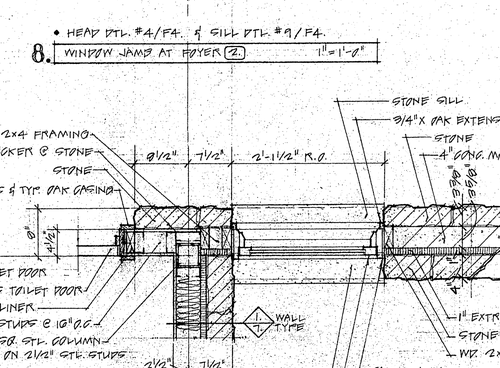
◆ HEAD DTL. #8/F4. & SILL DTL. #10/F4.

13. WINDOW JAMB AT RAMP CORRIDOR (3) 1"=1'-0"



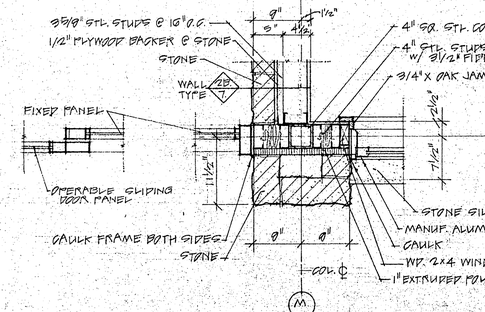
◆ HEAD DTL. #13/F7. SIM.

10. DOOR JAMB AT MEN'S (5) 1"=1'-0"



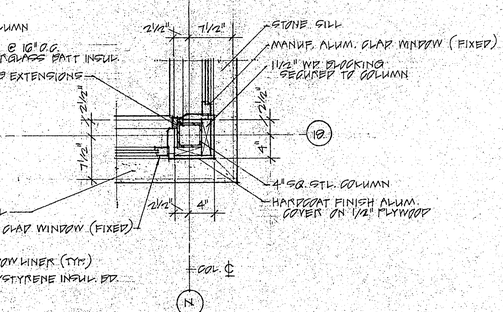
◆ HEAD DTL. #4/F4. & SILL DTL. #9/F4.

11. WINDOW JAMBS AT RAMPED CORR. (3) 1"=1'-0"



◆ HEAD DTL. #13/F4. & SILL DTL. #17/F4.

14. SLIDING ENTRANCE DOOR JAMB 1"=1'-0"



◆ HEAD DTL. #4/F4. & SILL DTL. #9/F4.

15. CORNER WINDOW JAMB 1"=1'-0"

AS BUILT
AUGUST 1, 1992

REVISED 4-14-89 : 3/4" EXT. CEDAR TRIM DET. #12; ST. STUD WALLS DET'S. 9 & 13.
11-16-88

STUART WILLIAM GALLAHER, ARCHITECT, INC.
702 NORTH BLACKHAWK AVENUE • MADISON, WISCONSIN

OLBRICH BOTANICAL COMPLEX
3330 ATWOOD AVENUE
MADISON, WISCONSIN

MISCELLANEOUS DETAILS.

F-3.

OLBRICH BOTANICAL COMPLEX
MADISON, WISCONSIN

STUART WILLIAM GALLAHER, ARCHITECT, INC.
702 NORTH BLACKHAWK AVENUE • MADISON, WISCONSIN

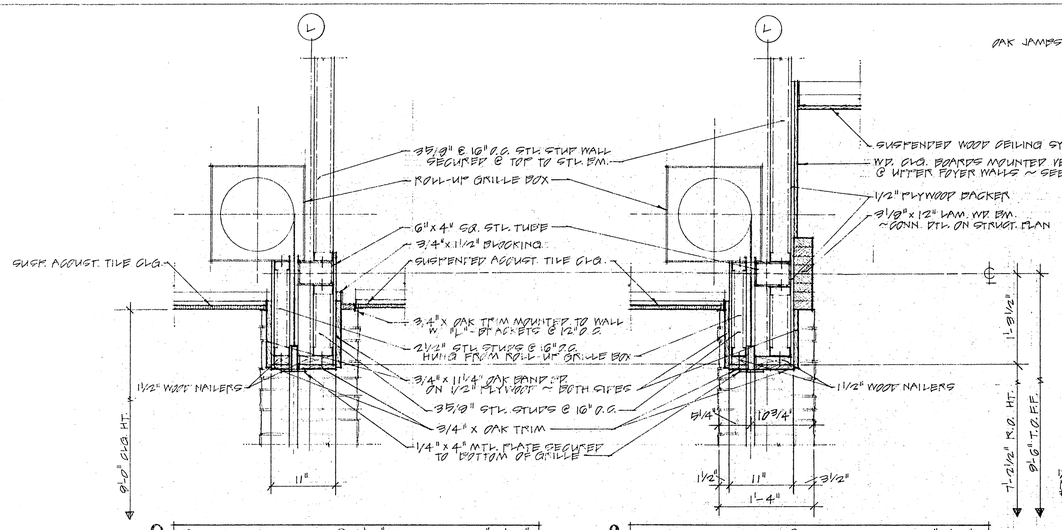
3380 ATWOOD AVENUE

WINDOW SILL, HEAD & JAMB DETAILS • RAMPED CORR. (3) • MISCELLANEOUS SILL, JAMB, HEAD & EAVE DETAILS •

AS BUILT
AUGUST 1, 1992

REVISED 4-1-93: 3/4" EXT. CEDAR TRIM & PETS #5, 4, 5 & 11; ST. STUDS PETS #1, 5 & 10
11-12-92

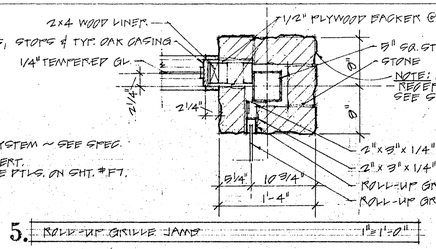
F-4.



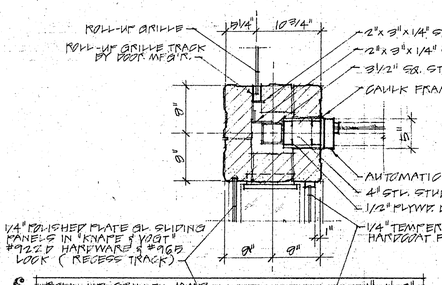
9. ROLL-UP GRILLE HD. @ 8'-0" CLG. 1"=1'-0"

8. ROLL-UP GRILLE HD. @ LAM. BM. 1"=1'-0"

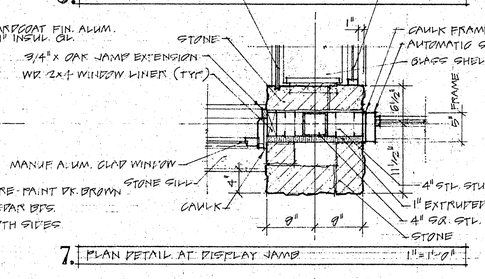
10. TRANSOM JAMB & MULLION 1"=1'-0"



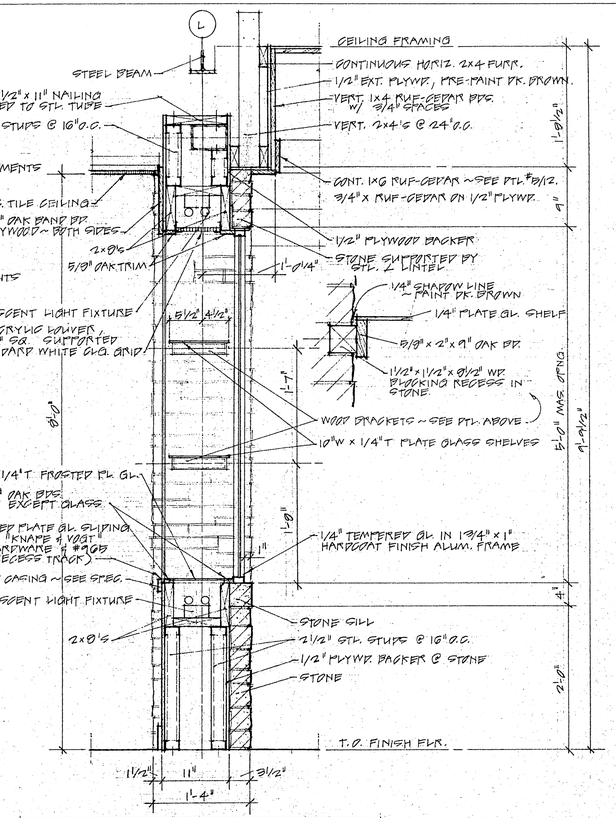
5. ROLL-UP GRILLE JAMB 1"=1'-0"



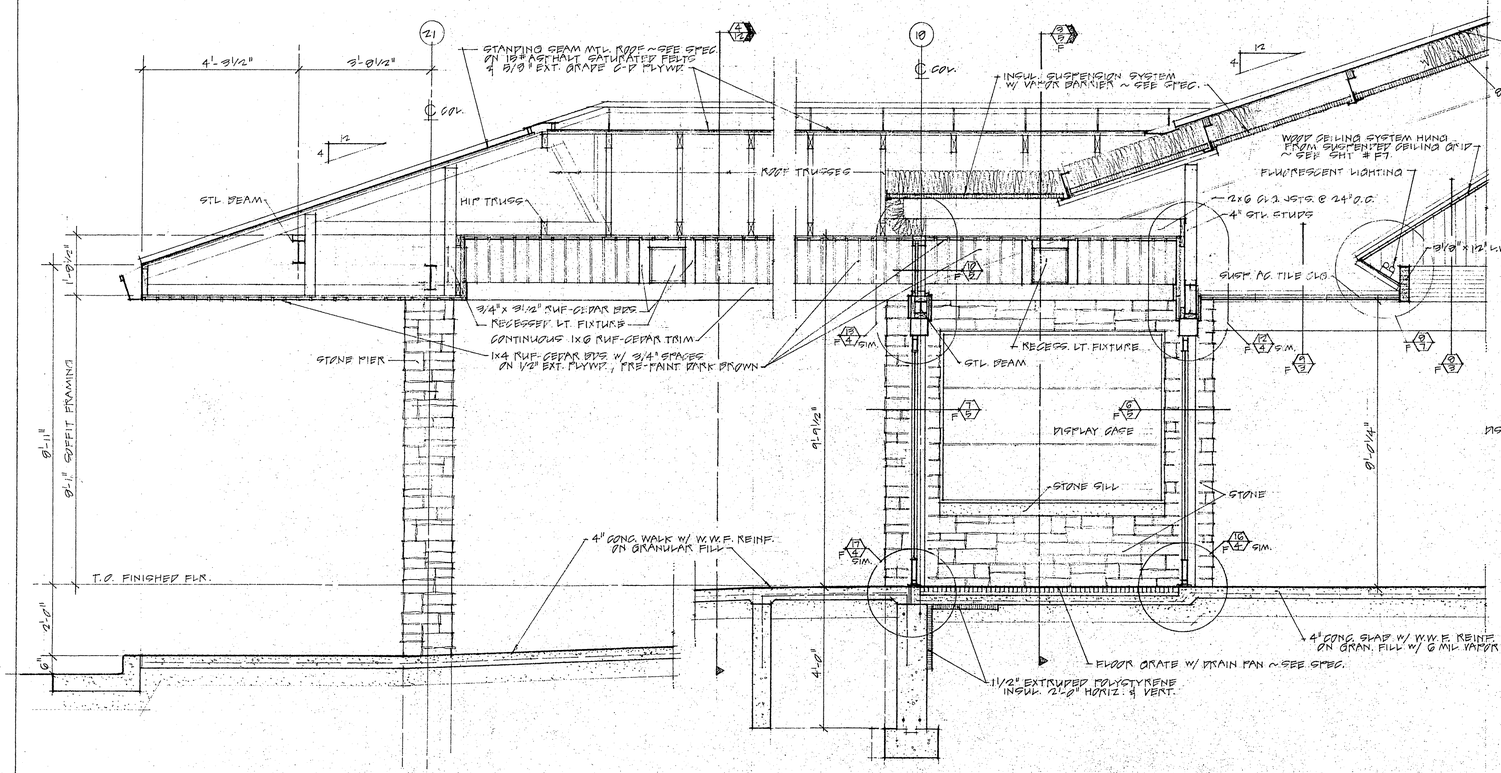
6. ROLL-UP GRILLE JAMB 1"=1'-0"



7. PLAN DETAIL AT DISPLAY JAMB 1"=1'-0"

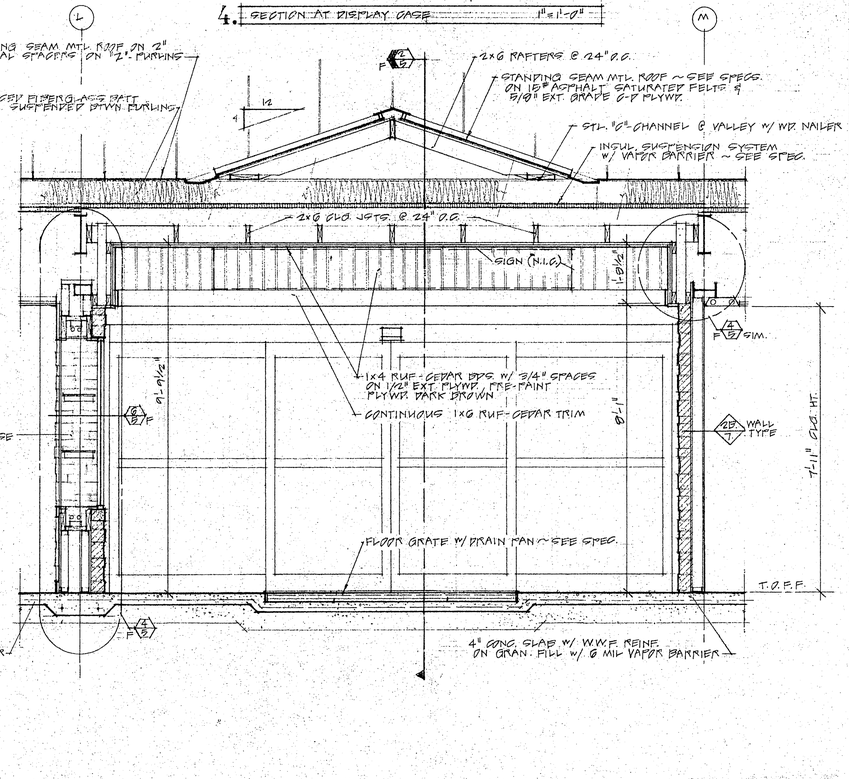


4. SECTION AT DISPLAY CASE 1"=1'-0"



1. SECTION AT COVERED ENTRANCE WALK 1/2"=1'-0"

2. SECTION AT ENTRANCE VESTIBULE (L) 1/2"=1'-0"



3. SECTION AT ENTRANCE VESTIBULE (1) 1/2"=1'-0"

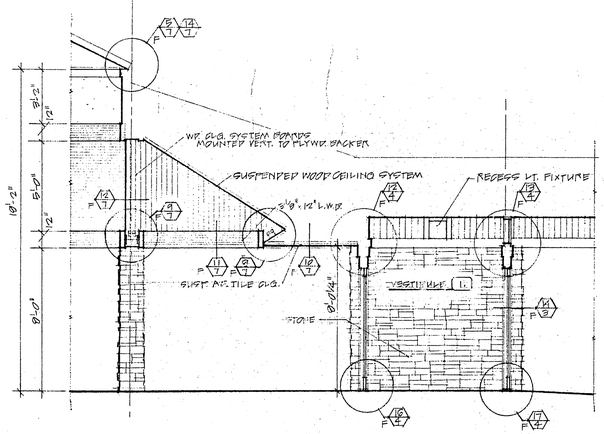
AS BUILT
AUGUST 1, 1992
11.18.92

1/2" SECTIONS & COVERED WALK & VESTIBULE (L) • ROLL-UP GRILLE HEAD & JAMB DETAILS • DISPLAY CASE DETAILS •

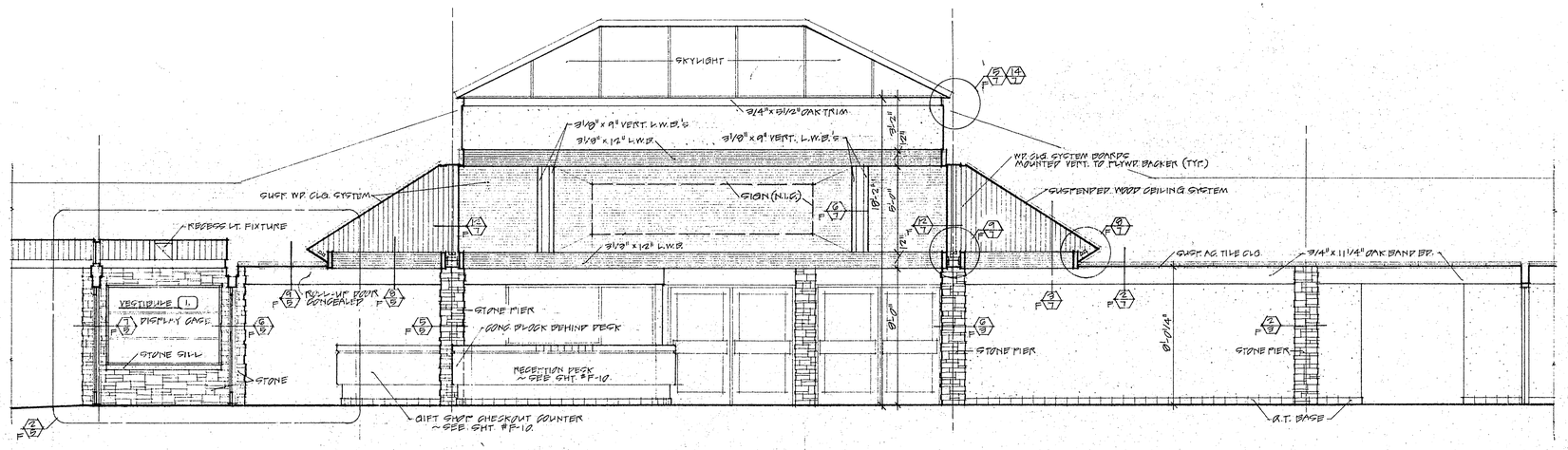
F-5.

OLBRICH BOTANICAL COMPLEX
3330 ATWOOD AVENUE
MADISON, WISCONSIN

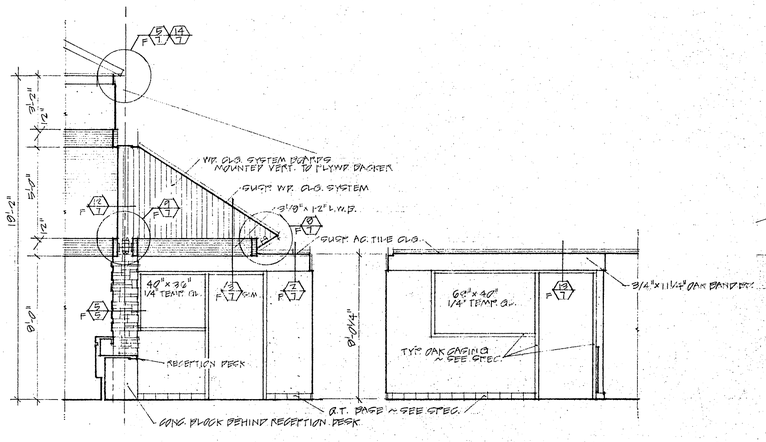
STUART WILLIAM GALLAHER, ARCHITECT, INC.
702 NORTH BLACKHAWK AVENUE • MADISON, WISCONSIN



1. FOYER 2. AND VESTIBULE 1. EAST ELEV. 1/4"=1'-0"

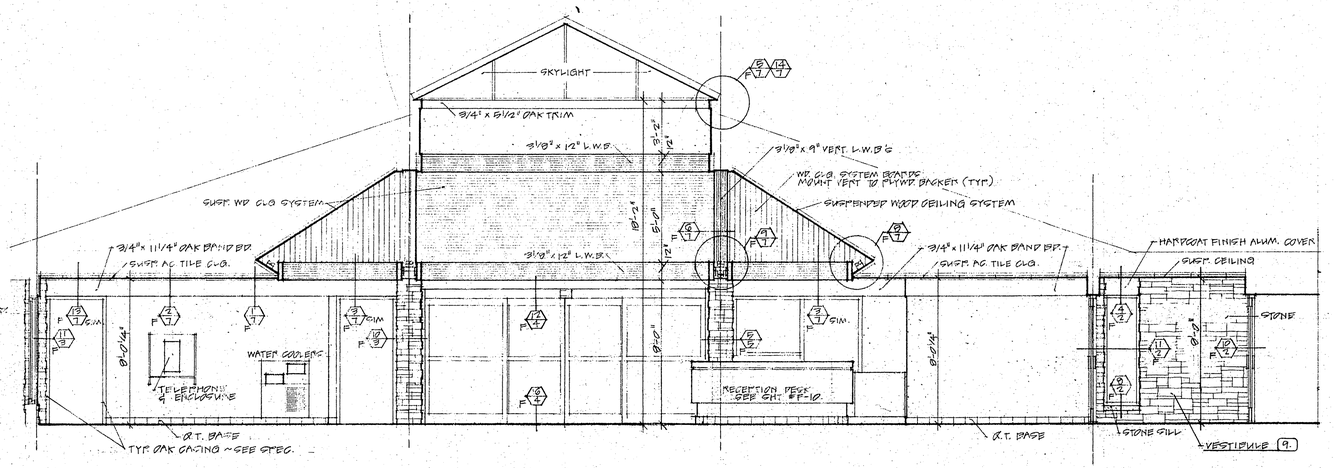


2. FOYER 2. AND VESTIBULE 1. WEST ELEV. 1/4"=1'-0"

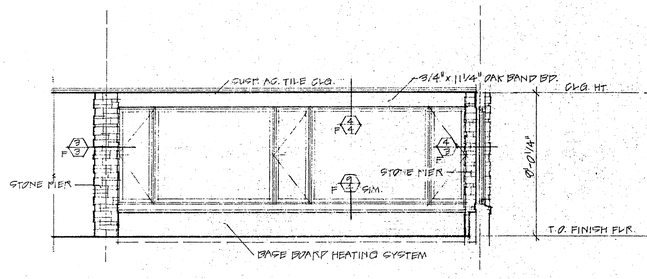


3. RECEPTION 7. SOUTH ELEV. 1/4"=1'-0"

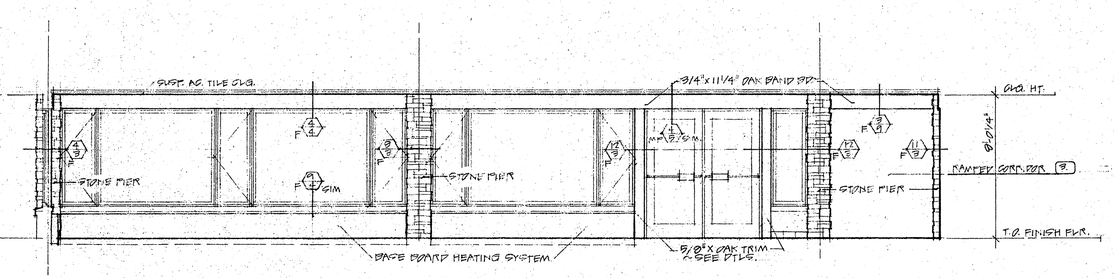
4. RECEPTION 7. WEST ELEV. 1/4"=1'-0"



5. FOYER 2. AND VESTIBULE 9. SOUTH ELEV. 1/4"=1'-0"



6. FOYER 2. NORTH ELEV. 1/4"=1'-0"



7. FOYER 2. EAST ELEV. 1/4"=1'-0"

AS BUILT
AUGUST 1, 1992

REVISED 4-14-89 : REMOVE STONE FACING & FOYER DETAIL #11-18-88

BOTANICAL COMPLEX

OLBRICH

3330 ATWOOD AVENUE

MADISON, WISCONSIN

STRANG THOMAS CARLHIAN, ARCHITECTS, P.C.
702 NORTH BLACKHAWK AVENUE
MADISON, WISCONSIN

1/4" INTERIOR ELEVATION/SECTIONS @ FOYER & VESTIBULE 1, RECEPTION AREA, & VESTIBULE 9.

F-6.

STUART WILLIAM GALLAHER, ARCHITECT, INC.
702 NORTH BLACKHAWK AVENUE • MADISON, WISCONSIN

OLBRICH BOTANICAL COMPLEX

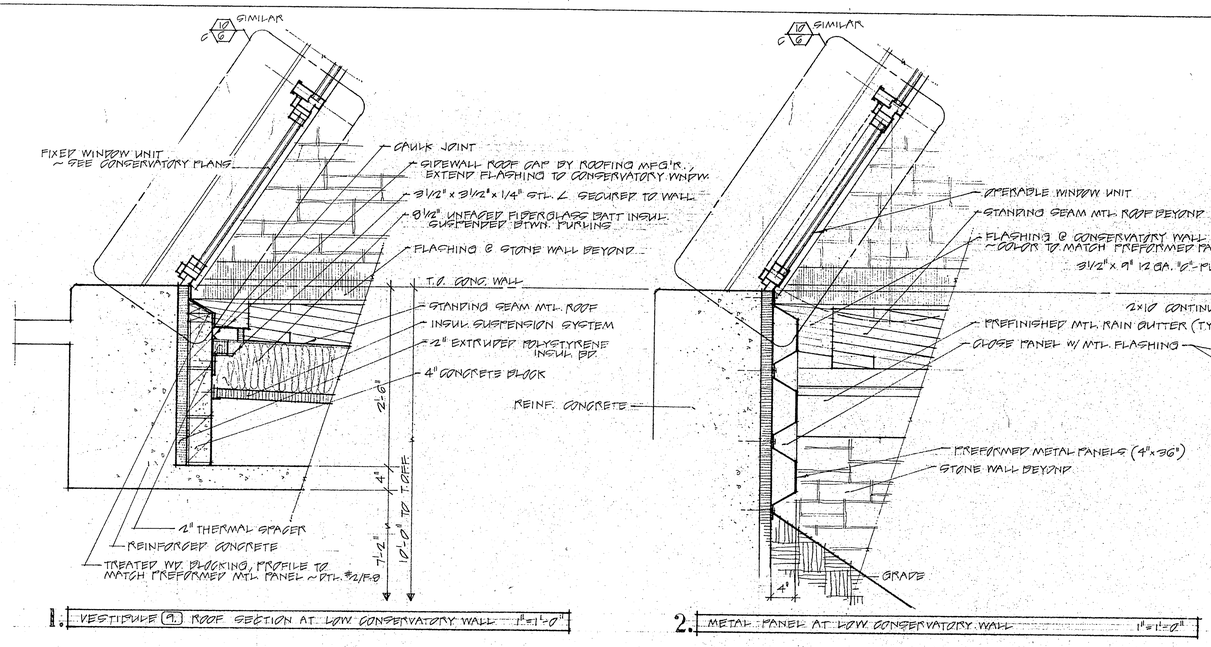
MADISON, WISCONSIN

PARTIAL FOYER REFLECTED CEILING PLAN • UPPER FOYER WALL DETAILS • MISCELLANEOUS SKYLIGHT & OTHER DETAILS •

AS BUILT
AUGUST 1, 1992

REVISED 4-14-89: REMOVE STONE FACING & SECT. "11"
11-16-88

F-7.



3. ROOF SECTION AT VESTIBULE (9) (LOW CONSERVATORY WALL BEYOND) 1"=1'-0"

NOTES & SPECIFICATIONS

(A) GLAZING FRAMEWORK : ALL ALUMINUM MEMB. SHALL BE FINISHED W/ "KYNAR 500" WHITE. MEMBERS SHALL BE EXTRUDED ALUM. PER DETAILS OR AS MANUF. BY SUPERSKY PROD., EFCO, WASCO OR APPROVED EQUAL. MATCH MEMB. SHALL HAVE SNAP-ON CAPS W/ NO EXPOSED FASTENERS.

(B) TRANSLUCENT GLAZING PANELS : "GUARDIAN 275" AS MANUF. BY "MAJOR INDUSTRIES, INC." ; 2 3/4" THICK PANELS W/ 8'-0" x 20" IN-LINE RECTANGULAR GRID PATTERN, .045 CRYSTAL INTERIOR PANEL FINISH, & 20/200 FIRE RATING.

(C) GLAZING STRIPS : TYPE I, HEAT CURED, BLACK, SILICONE RUBBER TYPE A 50 ± 5 DUROMETER.

(D) SETTING BLOCKS : TYPE II, EXTRUDED, BLACK, SILICONE RUBBER TYPE A 90 ± 5 DUROMETER.

(E) FASTENERS : ASTM B211 2024-T4 ALUMINUM ; ASTM A193 GR 300 SERIES STAINLESS STEEL ; OR ASTM B316 ALUM. RIVETS AS REQUIRED FOR MFGR CONNECTION.

SEALANTS : SHALL BE COMPATIBLE W/ SUBSTRATES & DEVELOP FULL ADHESIVE & COHESIVE STRENGTH WHEN SUBJECT TO DESIGN / LOAD MOVEMENTS & SHALL BE APPLIED IN ACCORDANCE W/ MANUFACTURER'S SPECIFICATIONS.

(F) STRUCTURAL FLUSH GLAZED SEALANT : HIGH PERFORMANCE SILICONE SEALANT, NEUTRAL CURE, MEDIUM TO HIGH MODULUS

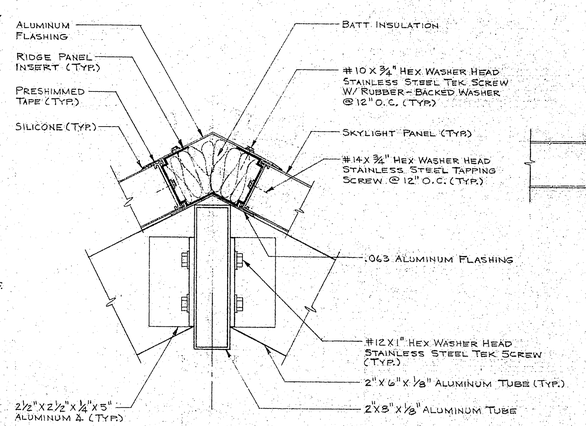
(G) NON-STRUCTURAL & WEATHER SEAL JOINTS : SILICONE SEALANTS APPLIED IN ACCORDANCE W/ MANUF. SPECIFICATIONS.

SKYLIGHT / CONSERVATORY CONTRACTOR QUALIFICATIONS :

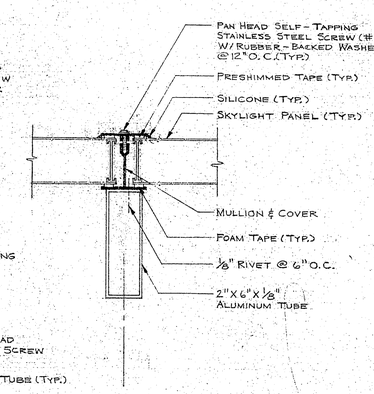
ENGINEERING, FABRICATION, FINISHING, PREPARATION AT THE JOB SITE, ERECTION & GLAZING OF THE CONSERVATORY & SKYLIGHT SYSTEMS SHALL BE DONE BY THE CONSERVATORY / SKYLIGHT MANUFACTURER. THE MANUFACTURER SHALL HAVE & SUBMIT A RECORD OF 8 YEARS EXPERIENCE IN THIS TYPE OF WORK.

WARRANTIES :

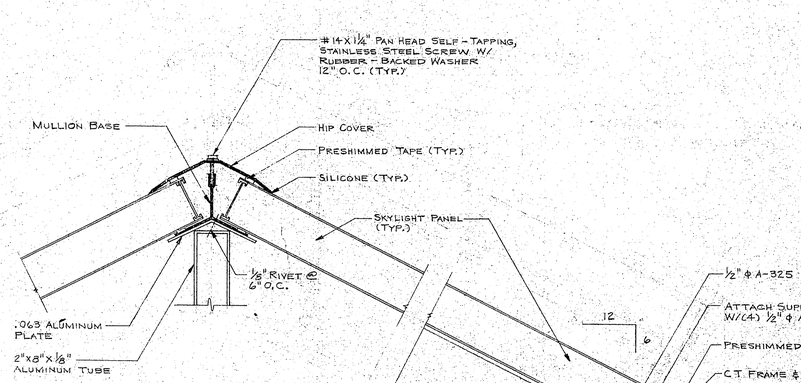
THE INSTALLED SYSTEM SHALL BE FREE FROM DEFECTS IN DESIGN, MATERIAL, CONSTRUCTION & LEAKAGE; FINISHES SHALL NOT COLOR FADE, CHIP OR PIT ; AND SEALANTS SHALL NOT BLEED, LOOSE COLOR, CRACK OR OVER HARDEN FOR 12 YEARS AFTER SUBSTAINTIAL COMPLETION.



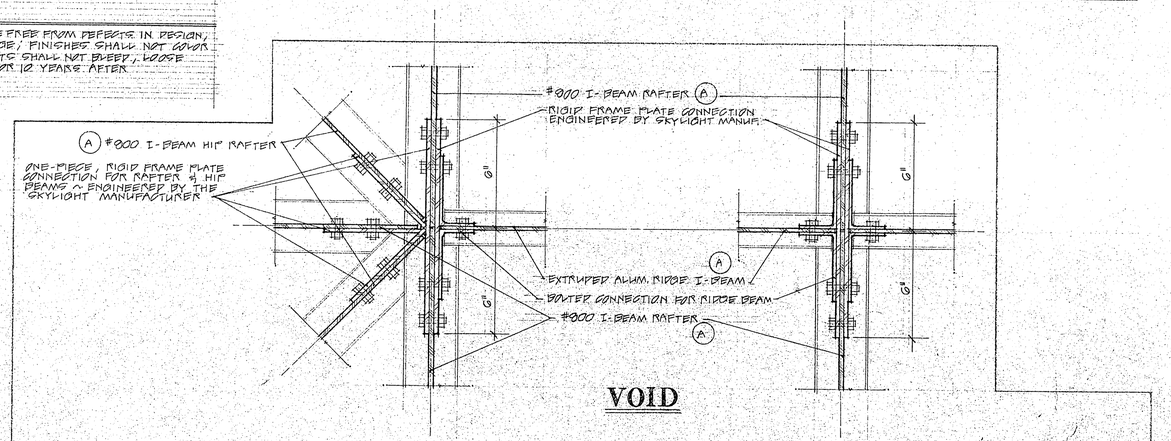
5. SKYLIGHT RIDGE SECTION 3"=1'-0"



6. TYPICAL SKYLIGHT RAFTER SECTION 3"=1'-0"



7. SKYLIGHT HIP RAFTER SECTION 3"=1'-0"



8. HIP RAFTER CONNECTION PLATE (PLAN) 3"=1'-0"

9. RAFTER CONNECTION PLATE (PLAN) 3"=1'-0"

4. CURB DETAIL @ DUCTWORK SCALE: 3"=1'-0"

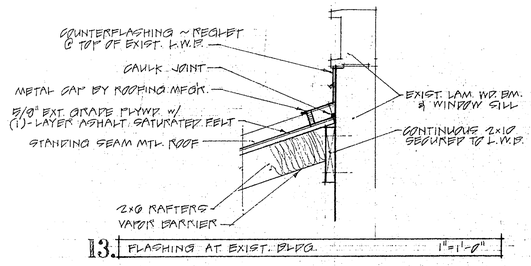
STUART WILLIAM GALLAHER, ARCHITECT, INC.
702 NORTH BLACKHAWK AVENUE MADISON, WISCONSIN

OLBRICH BOTANICAL COMPLEX
MADISON, WISCONSIN
3330 ATWOOD AVENUE

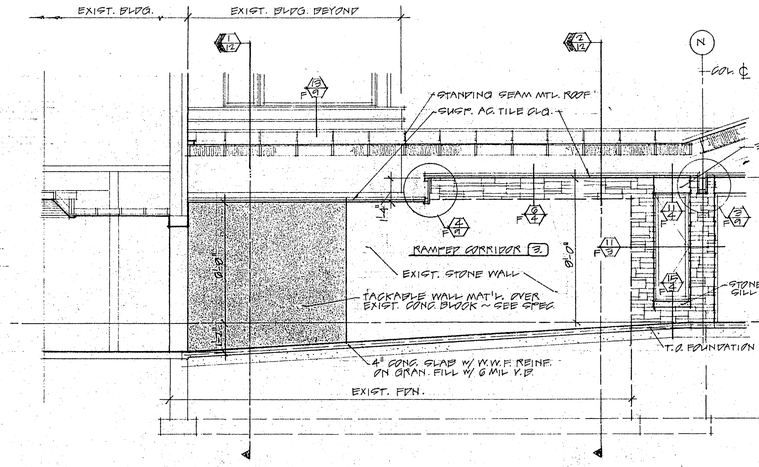
MISCELLANEOUS DETAILS & LAYOUTS FOR EXPERT WALL, TREE EXHIBITS, SKYLIGHT GLAZING DETAILS & SCHEDULES, PLATES & SPECS.

AS BUILT
AUGUST 1, 1992
11-18-88

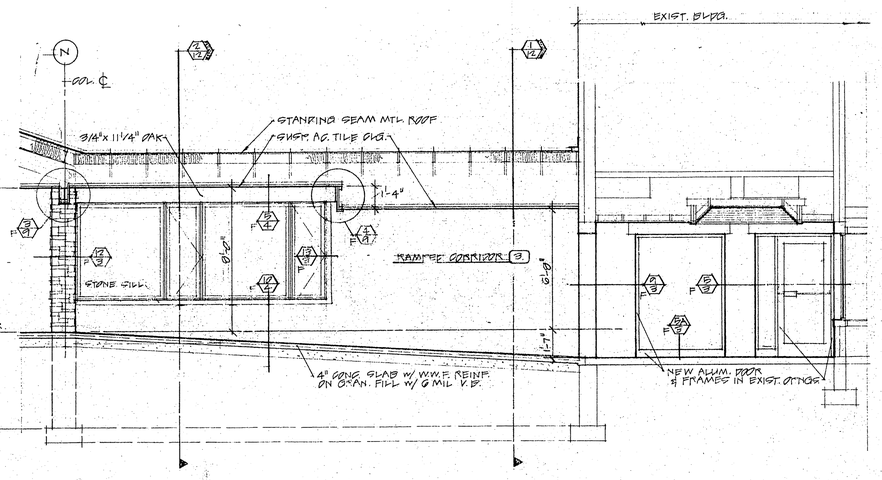
F-8.



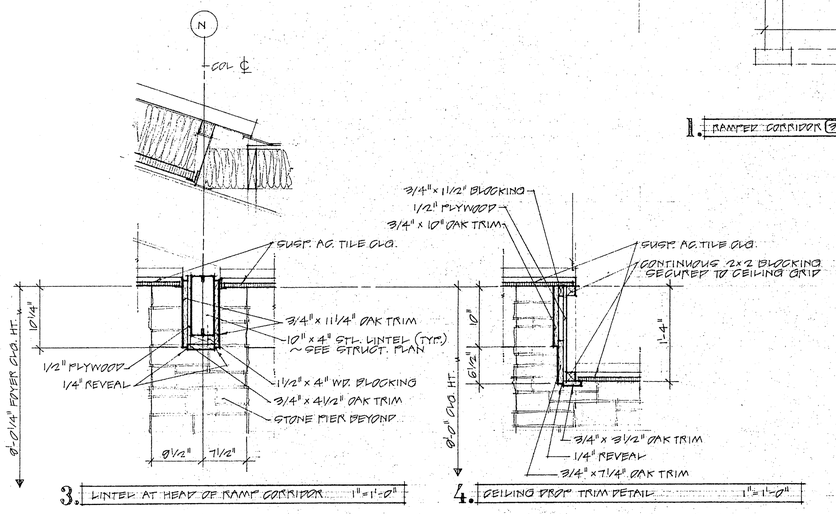
13. FLASHING AT EXIST. BLDG. 1"=1'-0"



1. RAMPED CORRIDOR 3 SOUTH ELEV. 1/4"=1'-0"

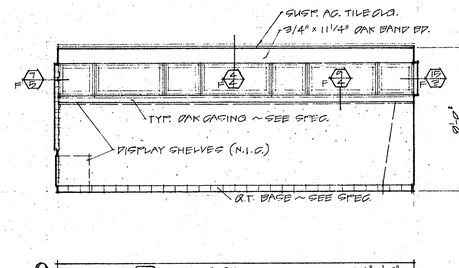


2. RAMPED CORRIDOR 3 NORTH ELEV. 1/4"=1'-0"

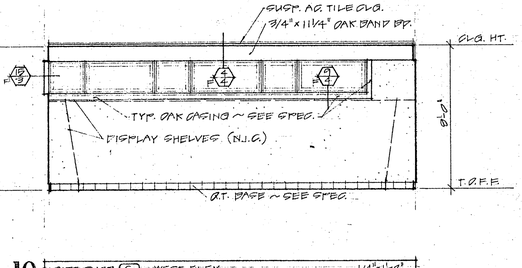


3. LINTEL AT HEAD OF RAMP CORRIDOR 1"=1'-0"

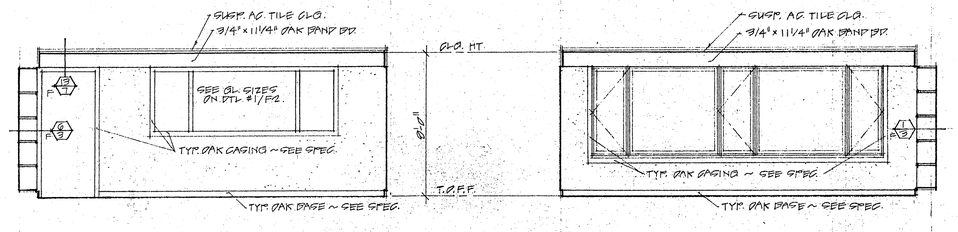
4. CEILING DROP TRIM DETAIL 1"=1'-0"



9. GIFT SHOP 6 SOUTH ELEV. 1/4"=1'-0"

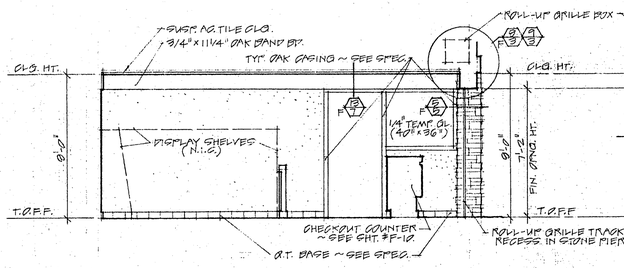


10. GIFT SHOP 6 WEST ELEV. 1/4"=1'-0"

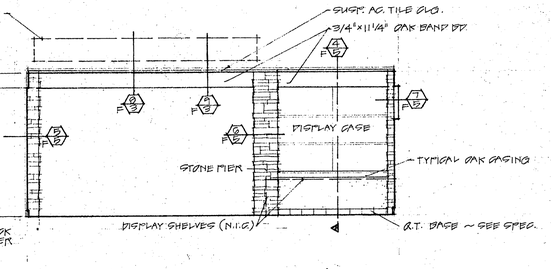


5. LIBRARY 10 SOUTH ELEV. 1/4"=1'-0"

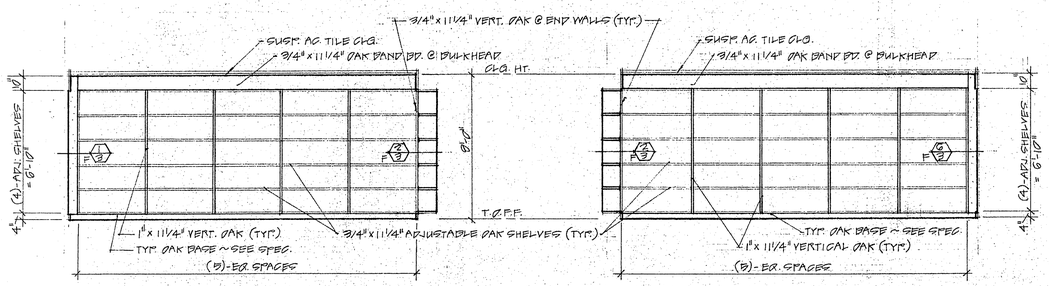
6. LIBRARY 10 WEST ELEV. 1/4"=1'-0"



11. GIFT SHOP 6 NORTH ELEV. 1/4"=1'-0"



12. GIFT SHOP 6 EAST ELEV. 1/4"=1'-0"



7. LIBRARY 12 NORTH ELEV. 1/4"=1'-0"

8. LIBRARY 12 EAST ELEV. 1/4"=1'-0"

AS BUILT
AUGUST 1, 1992

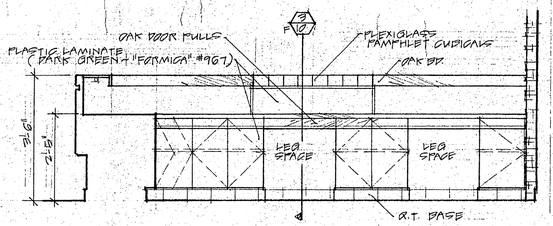
REVISED 4-14-89: REMOVE STONE FACING @ SECT. #2.
11-18-88

14" INTERIOR ELEVATIONS/SECTIONS, & LINTEL DTL. @ RAMPED CORRIDOR 3 • INTERIOR ELEVATIONS @ LIBRARY & GIFT SHOP • MISCELLANEOUS DETAILS

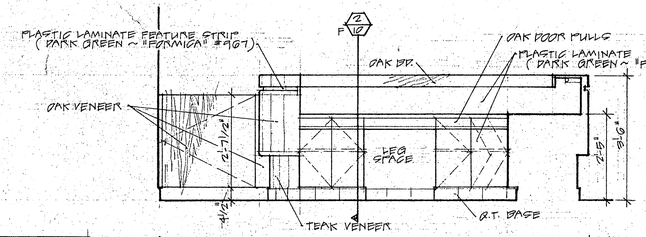
F-9.

STUART WILLIAM GALLAHER, ARCHITECT, INC.
702 NORTH BLACKHAWK AVENUE • MADISON, WISCONSIN

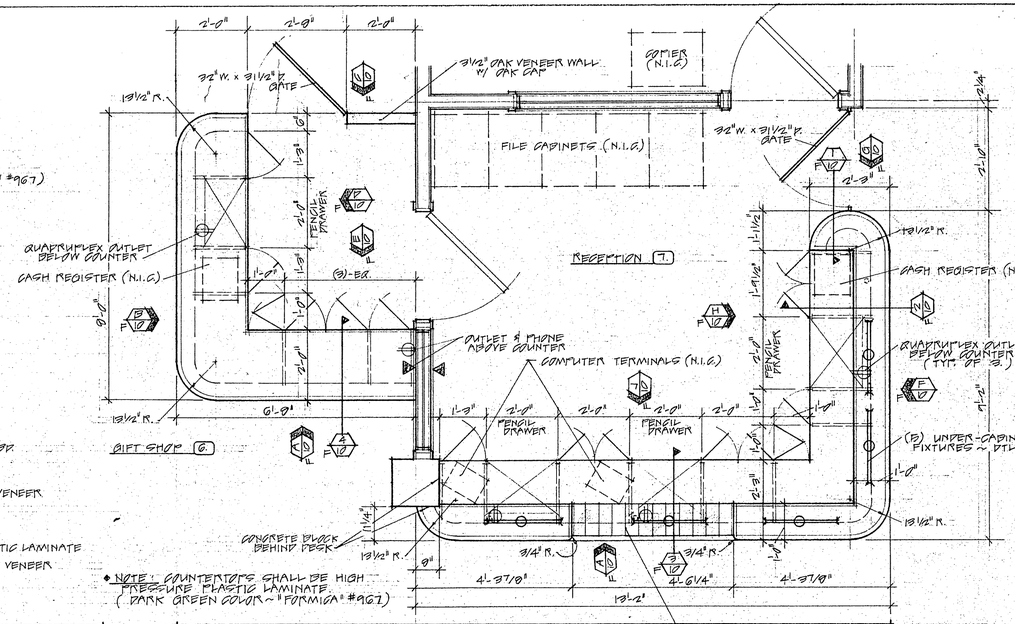
BOTANICAL COMPLEX
OLBRICH
3330 ATWOOD AVENUE
MADISON, WISCONSIN



J. RECEPTION DESK 1/2"=1'-0"

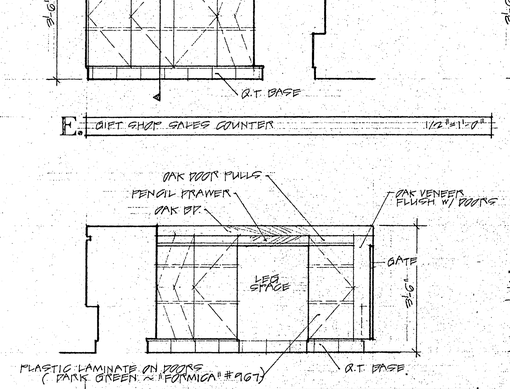


H. RECEPTION DESK 1/2"=1'-0"

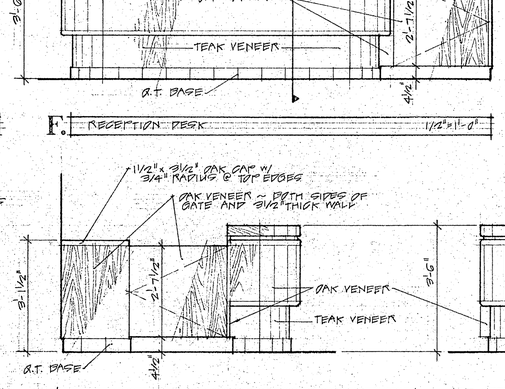


GIFT SHOP SALES COUNTER & RECEPTION DESK (PLAN) SCALE: 1/2"=1'-0"

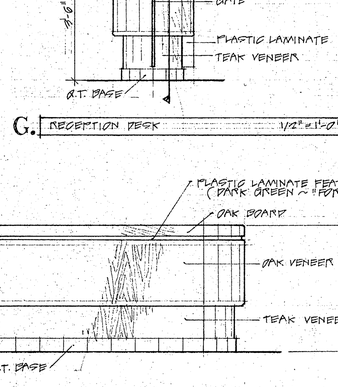
◆ NOTE: COUNTERTOPS SHALL BE HIGH PRESSURE PLASTIC LAMINATE (DARK GREEN COLOR ~ "FORMICA" #967)



E. GIFT SHOP SALES COUNTER 1/2"=1'-0"



F. RECEPTION DESK 1/2"=1'-0"

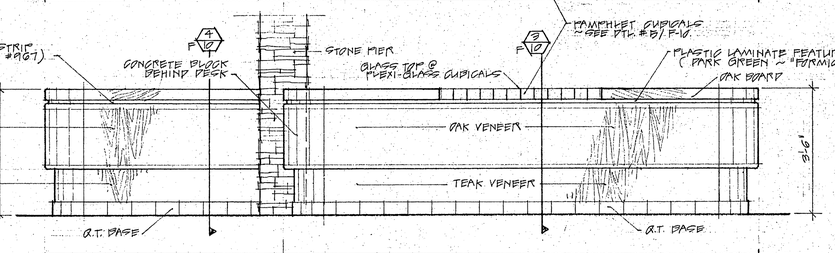


G. RECEPTION DESK 1/2"=1'-0"

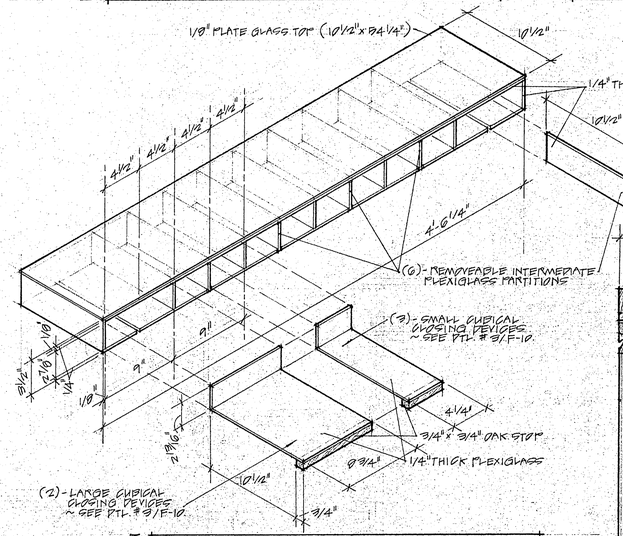
D. GIFT SHOP SALES COUNTER 1/2"=1'-0"

C. GIFT SHOP SALES COUNTER 1/2"=1'-0"

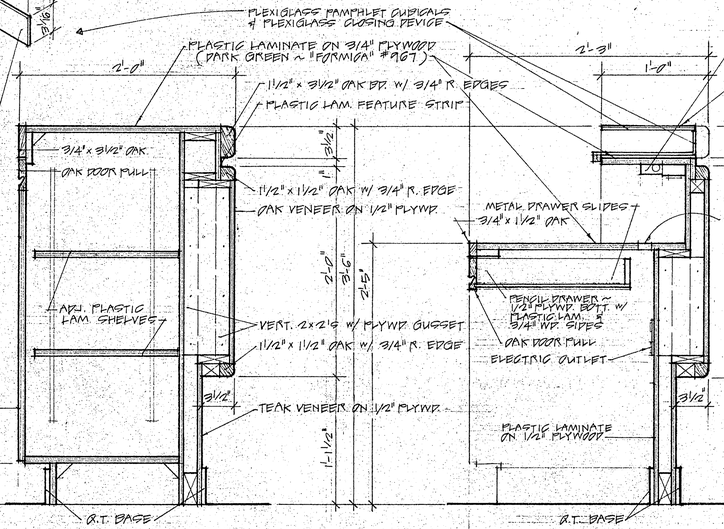
B. GIFT SHOP SALES COUNTER 1/2"=1'-0"



A. GIFT SHOP SALES COUNTER & RECEPTION DESK 1/2"=1'-0"



5. PAMPHLET CUBICALS N.T.S.



4. SECTION AT GIFTSHOP SALES COUNTER 1 1/2"=1'-0"

3. SECTION AT RECEPTION DESK DRAWER 1 1/2"=1'-0"

2. SECTION AT RECEPTION DESK CABINET 1 1/2"=1'-0"

1. SECTION AT END OF RECEPTION DESK 1 1/2"=1'-0"

AS BUILT
AUGUST 1, 1992

11.18.88

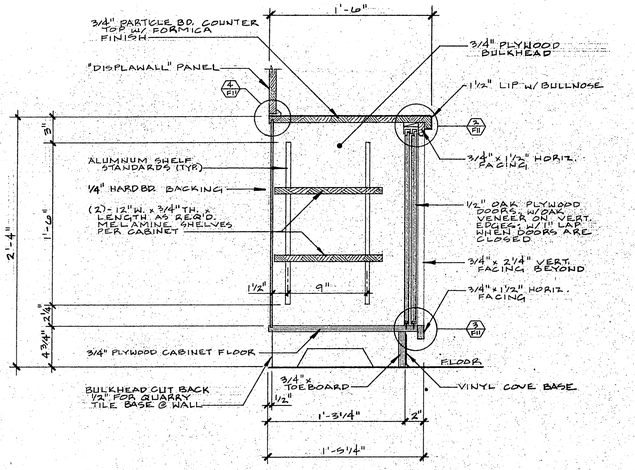
F-10.

STUART WILLIAM GALLAHER, ARCHITECT, INC.
202 NORTH BLACKHAWK AVENUE • MADISON, WISCONSIN

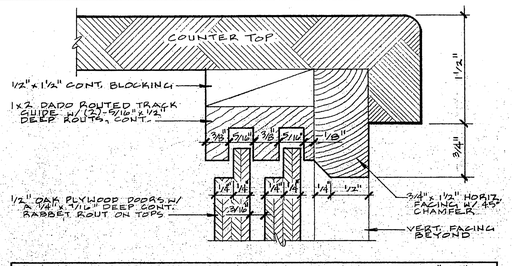
BOTANICAL COMPLEX

OLBRICH
2352 MAXWOOD AVENUE
MADISON, WISCONSIN

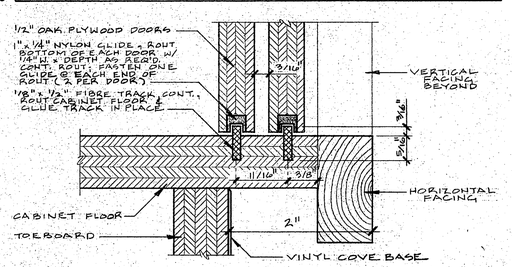
GIFT SHOP SALES COUNTER & RECEPTION DESK DETAILS •



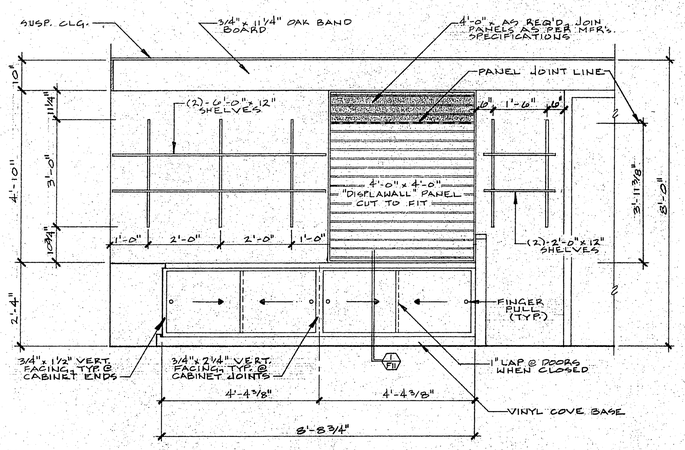
1. SECTION THRU CABINET — SCALE: 1½"=1'-0"



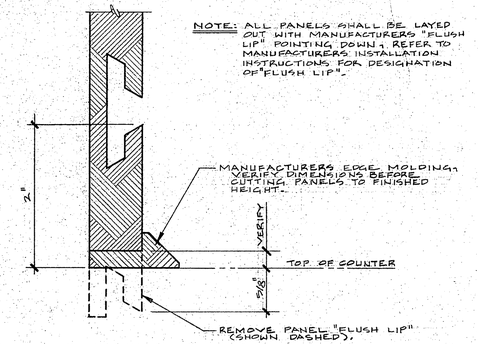
2. UPPER DOOR TRACK DETAIL — SCALE: 1"=1"



3. LOWER DOOR TRACK DETAIL — SCALE: 1"=1"

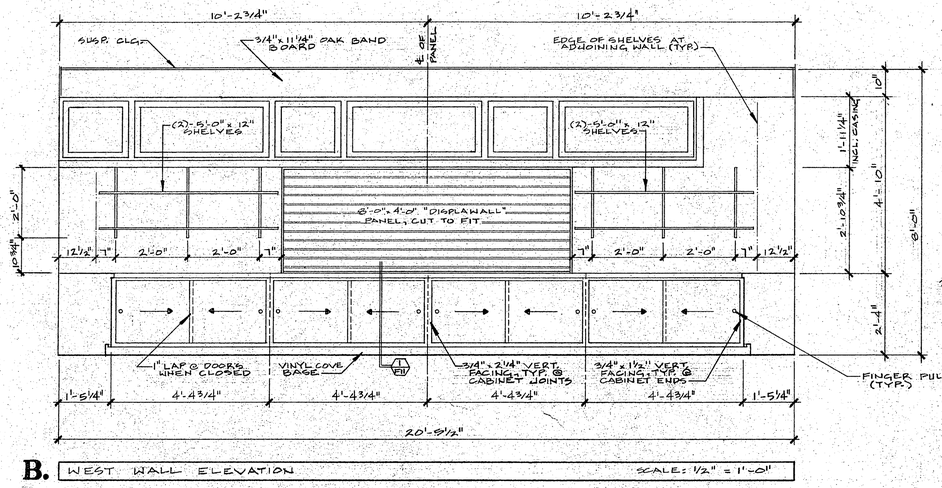


A. NORTH WALL ELEVATION — SCALE: ½"=1'-0"

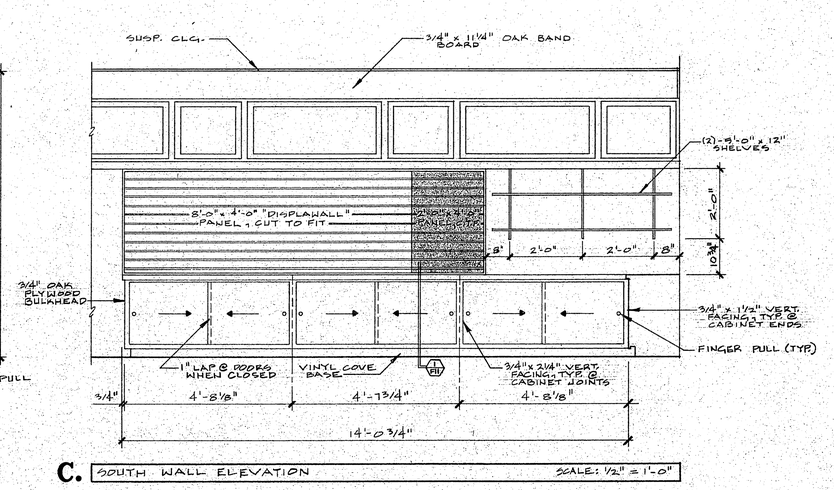


4. PANEL INSTALLATION DETAIL — SCALE: 1"=1"

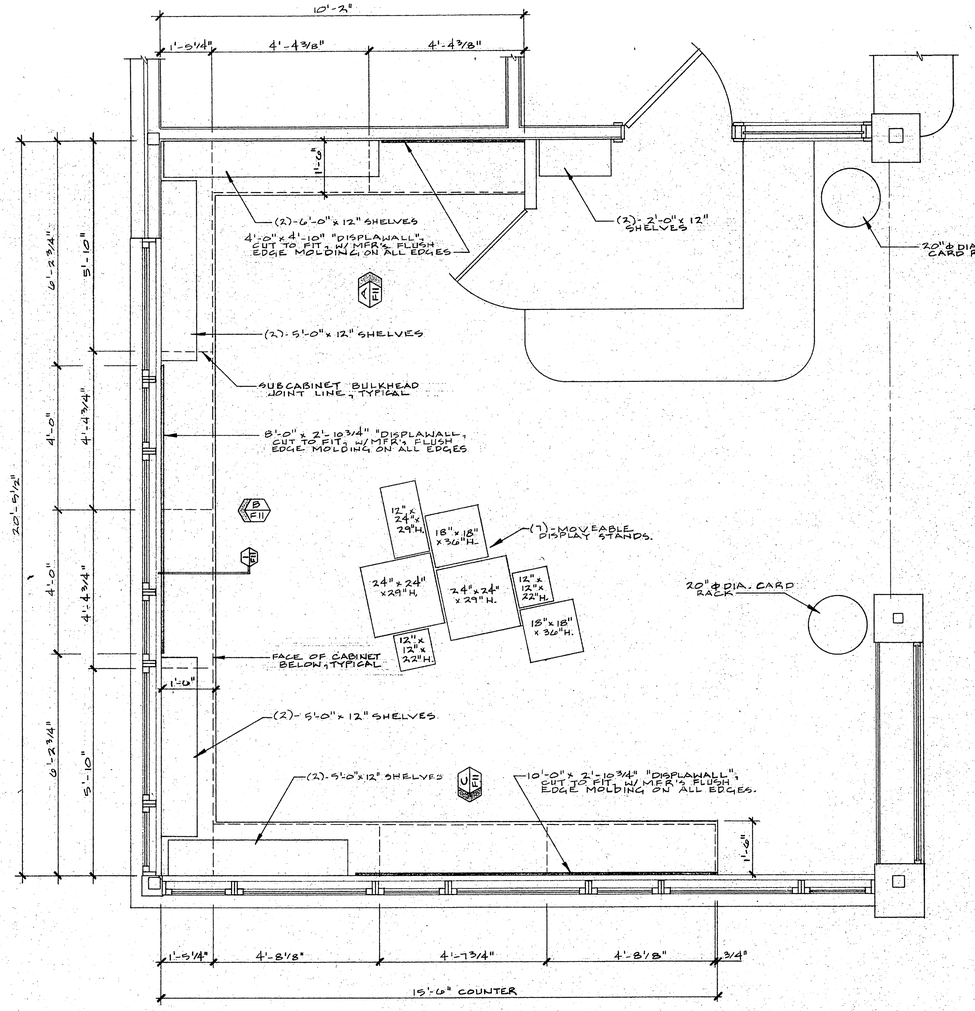
NOTE: "DISPLAWALL" PANELS SHOWN SHADED SHALL BE SCRAP PIECES CUT FROM FULL SHEETS.



B. WEST WALL ELEVATION — SCALE: ½"=1'-0"



C. SOUTH WALL ELEVATION — SCALE: ½"=1'-0"



GIFT SHOP ~ COUNTER, CABINET, & SHELVING, PLAN — SCALE: ½"=1'-0"

COUNTER, CABINET, & SHELVING SPECIFICATION

"DISPLAWALL" PANELS: "MAKLITE", "DISPLAWALL", 2000 SERIES, MEDIUM DENSITY FIBERBOARD PANELS; 8'-0" L. x 4'-0" W. x 3/4" THK. HORIZONTAL T-GROOVES AT 3" ON CENTER, #2916 ALMOND FINISH; WITH RED OAK VENEER EDGE MOLDING, NATURAL FINISH.

CABINET CONSTRUCTION:

- BULKHEADS: 3/4" FIR PLYWOOD "B" GRADE OR BETTER AT ALL HIDDEN BULKHEADS; 3/4" OAK PLYWOOD WITH NATURAL FINISH AT EXPOSED BULKHEAD.
- BACKS: 1/4" MASONITE, ROUTED INTO CABINET TOPS, FLOORS, AND BULKHEADS.
- FLOOR: 3/4" FIR PLYWOOD "B" GRADE OR BETTER.
- FACINGS: SOLID OAK, NATURAL FINISH, SIZES AS PER DRAWINGS.
- DOORS: 1/2" OAK PLYWOOD, NATURAL FINISH, WITH OAK VENEER ON VERTICAL EDGES.

COUNTER TOPS: 3/4" PARTICLE BOARD WITH "FORMICA" #9107 "HUNTER GREEN" FINISH.

SHELF STANDARDS & BRACKETS: SHALL BE BY "KNAPE & VOGT" AS FOLLOWS:

- ABOVE COUNTER: #80 ALM "CONTEMPORARY PAINTED STEEL" STANDARDS WITH 1" CENTERS, SIZES AS NOTED ON ELEVATIONS. USE #180 ALM, 12" LONG "CONTEMPORARY PAINTED STEEL" BRACKETS.
- BELOW COUNTER: #258 AL ALUMINUM STANDARDS WITH 1/2" CENTERS, 18" LONG, ROUTED FLUSH INTO CABINET BULKHEADS. USE #239 SHELF SUPPORTS (4 PER SHELF).

SHELVES: SHALL BE AS FOLLOWS:

- ABOVE COUNTER: 3/4" OAK PLYWOOD WITH ALL EDGES OAK VENEERED, SIZES AS PER DRAWINGS, NATURAL FINISH.
- BELOW COUNTER: 3/4" x 12" WHITE MELAMINE, SIZES AS REQUIRED BY CABINET LENGTH, 2 PER CABINET.

VINYL COVE BASE: 4", BROWN, IN ALL TOE SPACES.

FINGER PULLS: "KNAPE & VOGT" #803 x BR, .175/.170 DIA., 3/8" DEEP, BRASS DIPPED FINISH.

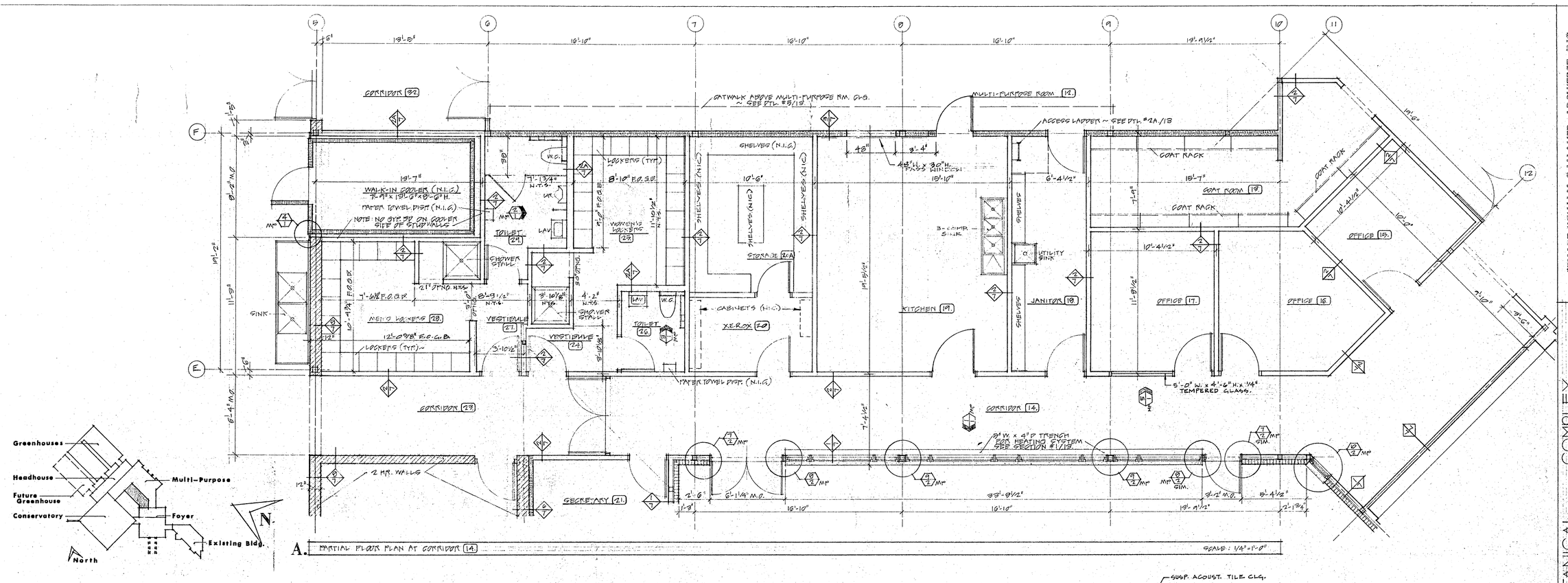
AS BUILT
AUGUST 1, 1992
3.12.90

STUART WILLIAM GALLAHER, ARCHITECT, INC.
702 NORTH BLACKHAWK AVENUE • MADISON, WISCONSIN

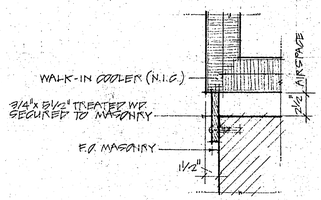
OLBRICH BOTANICAL COMPLEX
MADISON, WISCONSIN
3330 ATWOOD AVENUE

GIFT SHOP ~ COUNTER, CABINET, & SHELVING PLAN • WALL ELEVATIONS • DETAILS • SPECIFICATIONS

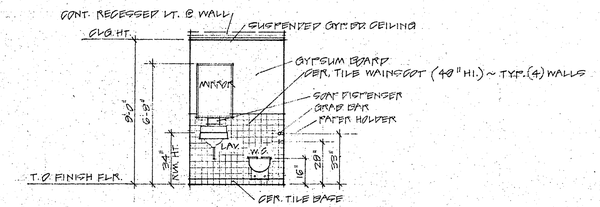
F-11.



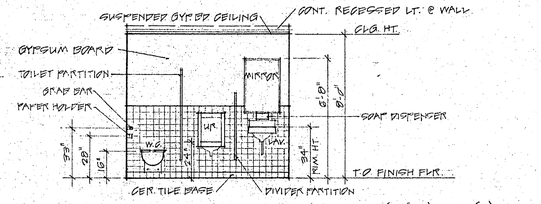
A. PARTIAL FLOOR PLAN AT CORRIDOR 14 — SCALE: 1/4"=1'-0"

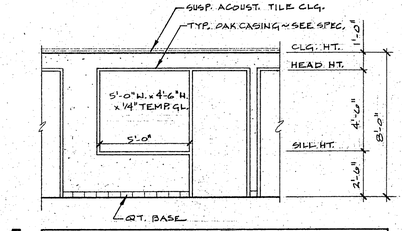


4. WALK-IN COOLER ~ AIRSPACE CLOSURE 1 1/2"=1'-0"

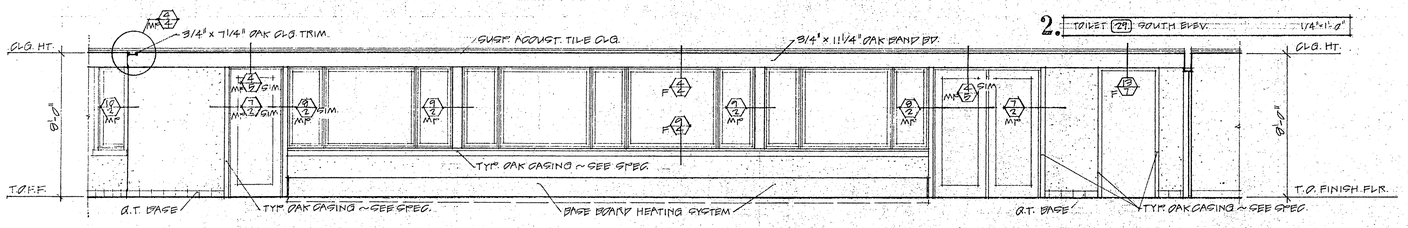


3. TOILET 26 EAST ELEV. 1/4"=1'-0"





5. CORR. 14 ELEV. OF OFFICE 17 1/4"=1'-0"



1. CORRIDOR 14 WEST ELEVATION SCALE: 1/4"=1'-0"

2. TOILET 29 SOUTH ELEV. 1/4"=1'-0"

STUART WILLIAM GALLAHER, ARCHITECT, INC.
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OLBRICH BOTANICAL COMPLEX

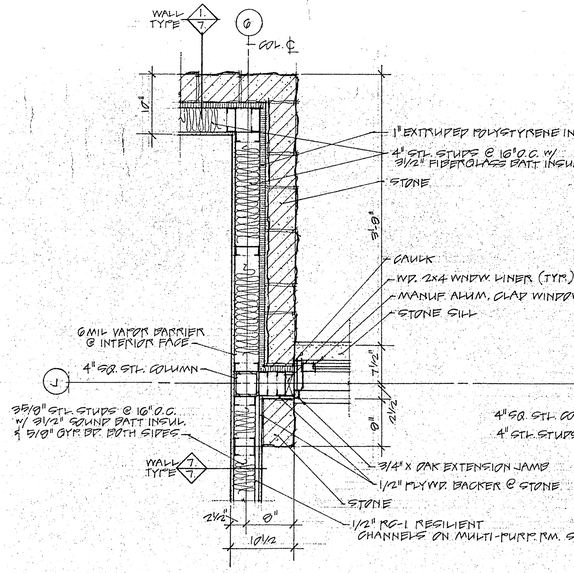
3330 ATWOOD AVENUE ~ MADISON, WISCONSIN

PARTIAL FLOOR PLAN & CORRIDOR 14 • TOILET RM. 26 & CORRIDOR 14 INTERIOR ELEVATIONS • WALK-IN COOLER ~ AIRSPACE CLOSURE DTL.

AS BUILT
AUGUST 1, 1992

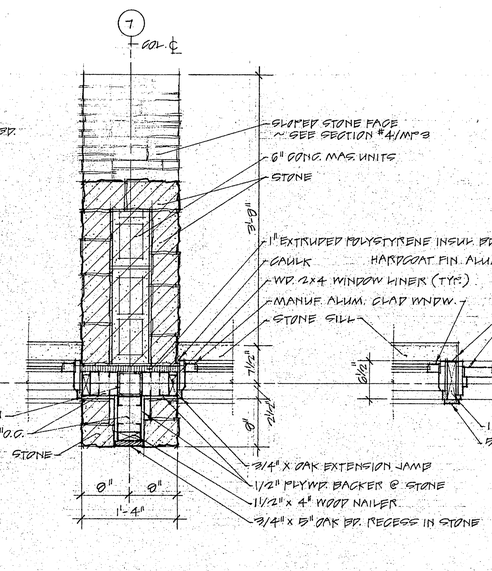
5-8-89: MOVE DOOR AT OFFICE 16; ADD WINDOW AT OFFICE 17, ADD DETAIL #5.
REVISED: 4-14-89: RELOCATE WALL BETWEEN RMS. 24 & 27 & CORR. 23. 11-18-88

MP
1.



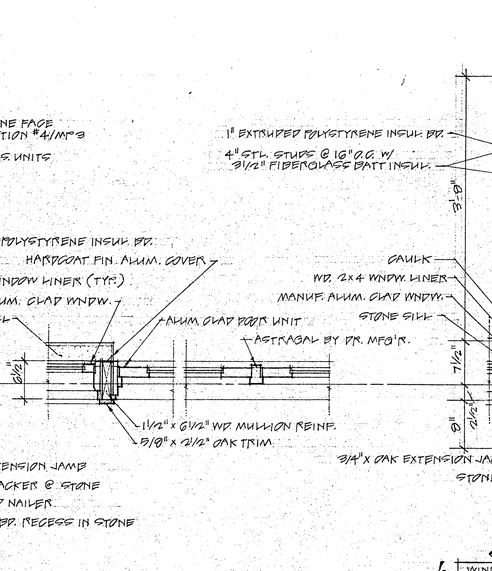
◆ HEAD DTL. #5/MP2 & SILL DTL. #6/MP2

1. WINDOW JAMB AT MULTI-PURP. RM. (12) 1"=1'-0"



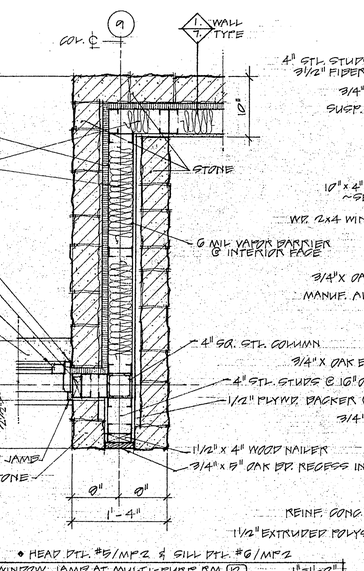
◆ HEAD DTL. #5/MP2 & SILL DTL. #6/MP2

2. STONE PIER AT MULTI-PURP. RM. (12) 1"=1'-0"



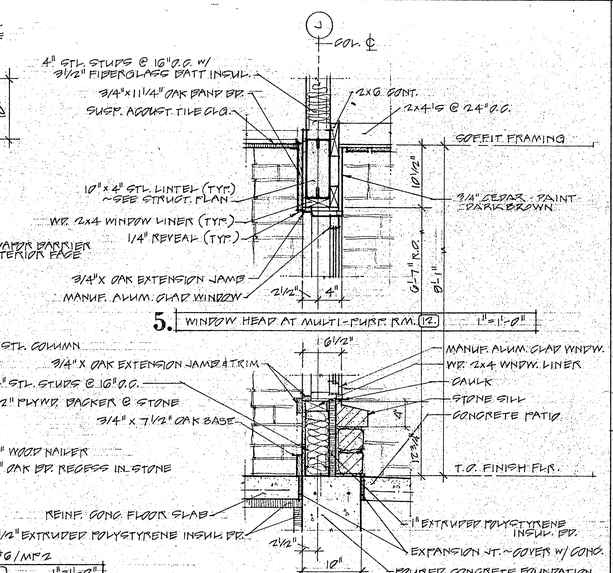
◆ HEAD DTL. #4/MP3 & SILL DTL. #17/F4 SIM.

3. DOOR / WINDOW MULLION AND ASTRAGAL 1"=1'-0"



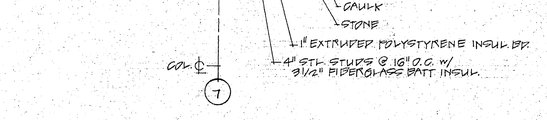
◆ HEAD DTL. #5/MP2 & SILL DTL. #6/MP2

4. WINDOW JAMB AT MULTI-PURP. RM. (12) 1"=1'-0"



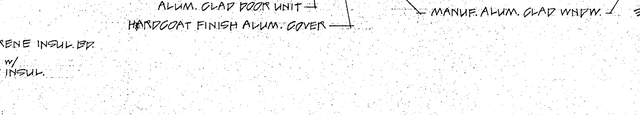
5. WINDOW HEAD AT MULTI-PURP. RM. (12) 1"=1'-0"

6. WINDOW SILL AT MULTI-PURP. RM. (12) 1"=1'-0"



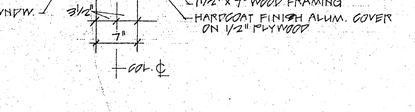
◆ HEAD DTL. #4/MP3. SIM.

7. DOOR JAMB AT CORRIDOR (14) 1"=1'-0"



◆ HEAD DTL. #4/MP3. SIM.

8. DOOR / WINDOW MULLION AND ASTRAGAL 1"=1'-0"

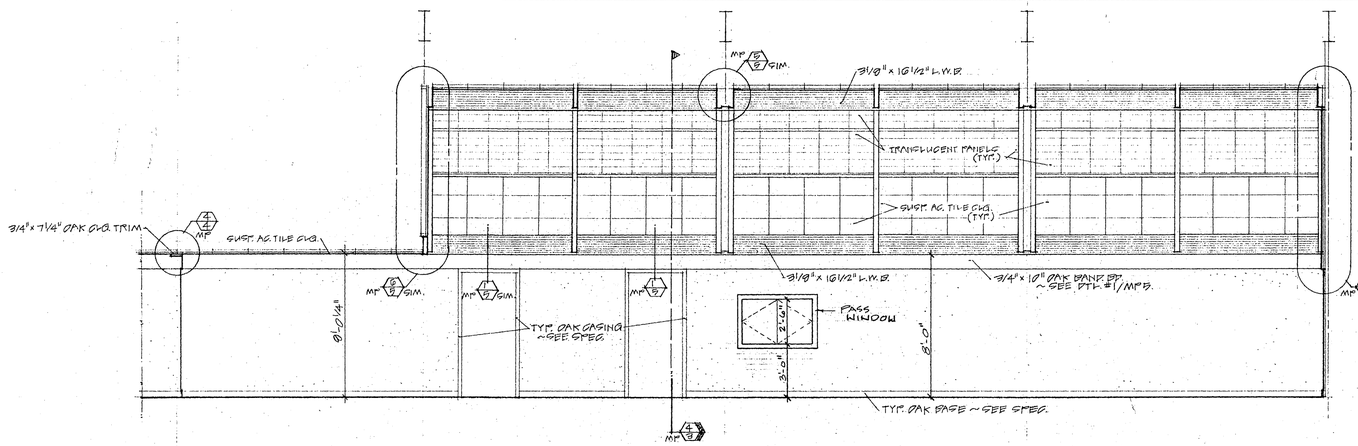


◆ HEAD DTL. #4/F4. & SILL DTL. #9/F4.

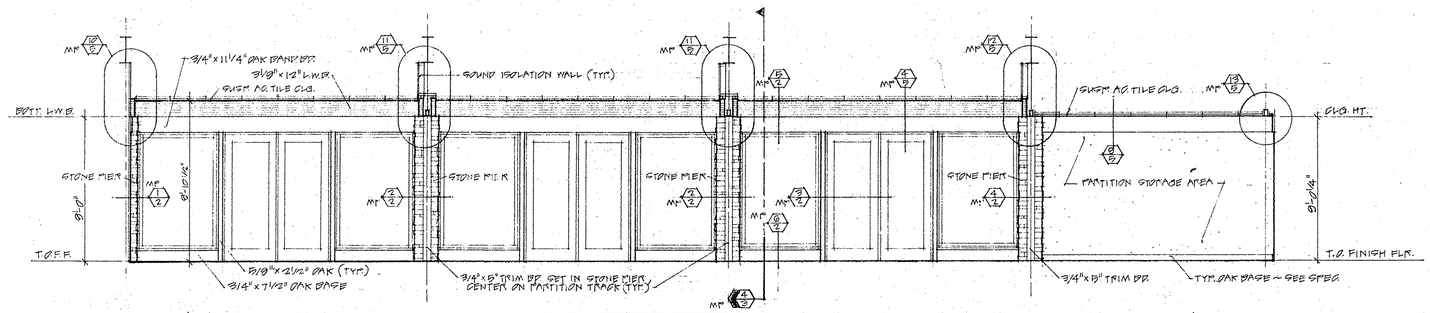
9. TYPICAL WINDOW MULLION W/ COLUMN 1"=1'-0"

9A. TYPICAL WINDOW MULLION W/O COLUMN 1"=1'-0"

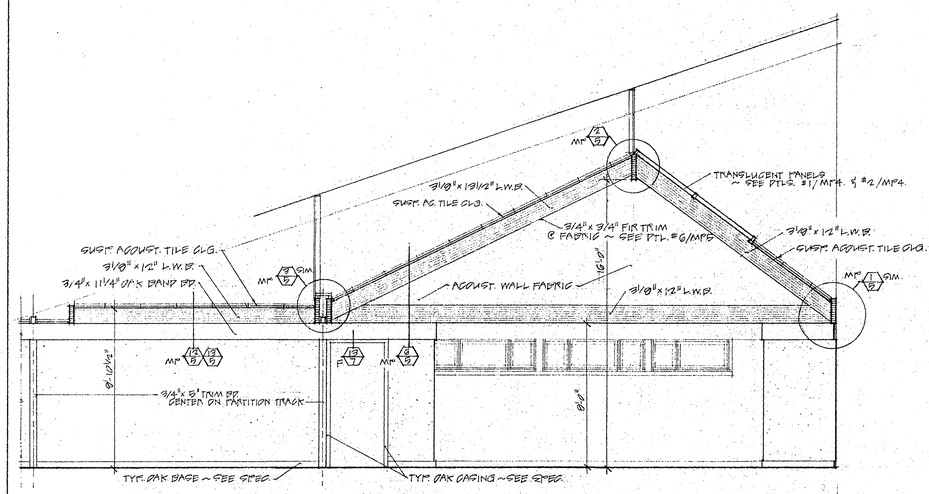
F
4'-3½"
RIDGE CLOSURE BY ROOFING MFG'R.
COL. ℄
12
4
STANDING SEAM MTL. ROOF ~ SEE SPEC.
2" THERMAL SPACER ON "Z" PURLIN
METAL FASCIA
3½" x 12" 12 GA. "C" PURLIN
9½" UNFACED FIBERGLASS BATT INSUL. SUSPENDED BTWN. PURLINS
INSUL. SUSPENSION SYSTEM W/ REFLECTIVE WHITE FACE.
2'-0"
2'-0"
2'-0"



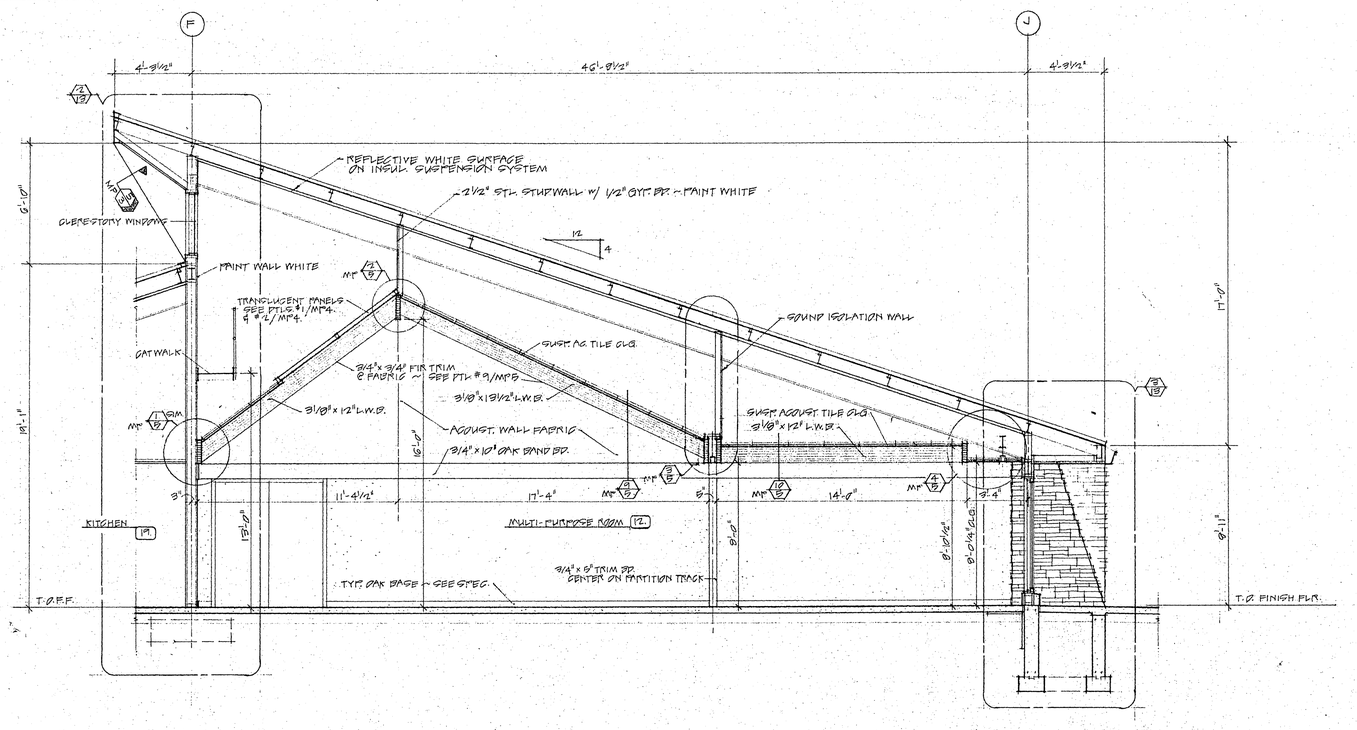
1. MULTI-PURPOSE ROOM [12] WEST ELEVATION 1/4" = 1'-0"



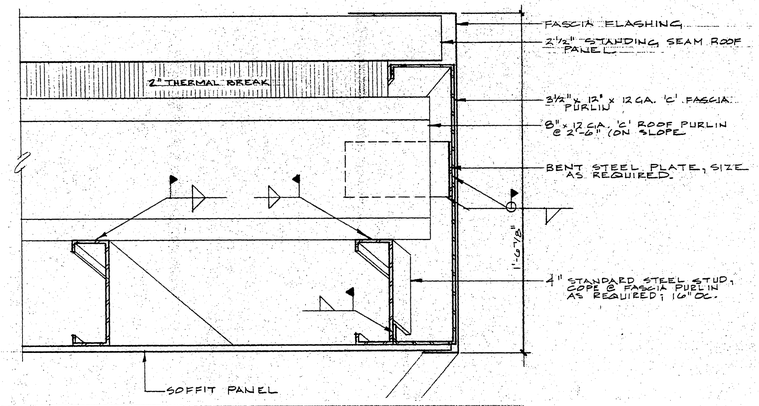
2. MULTI-PURPOSE ROOM [12] EAST ELEV. 1/4" = 1'-0"



3. MULTI-PURPOSE ROOM [12] SOUTH ELEV. 1/4" = 1'-0"



4. SECTION THRU MULTI-PURPOSE ROOM [12] NORTH ELEV. SCALE 1:1/4" = 1'-0"



5. FASCIA / SOFFIT DETAIL 3" = 1'-0"

STUART WILLIAM GALLAHER, ARCHITECT, INC.
702 NORTH BLACKHAWK AVENUE • MADISON, WISCONSIN

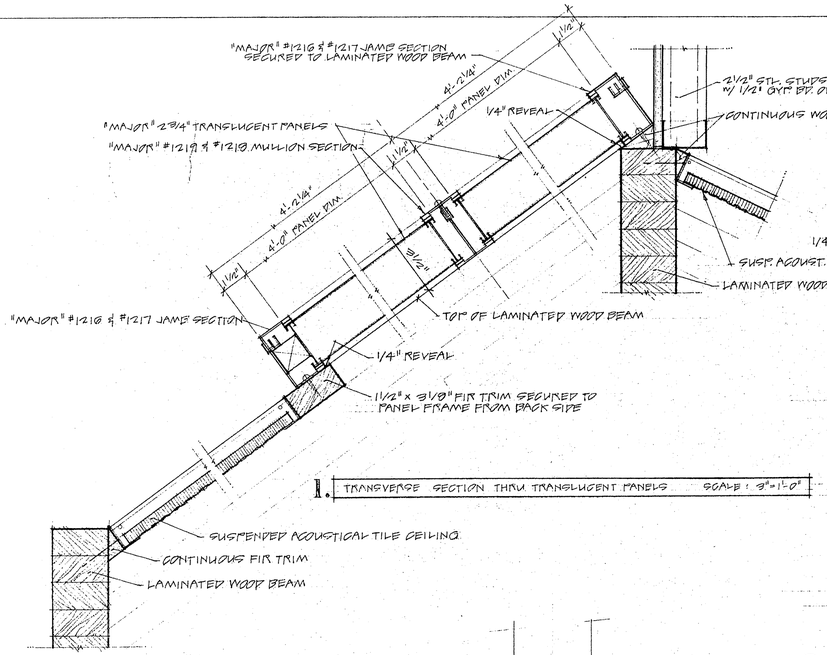
OLBRICH BOTANICAL COMPLEX
3330 ATWOOD AVENUE
MADISON, WISCONSIN

14" INTERIOR ELEVATIONS / SECTIONS THRU MULTI-PURPOSE ROOM • FASCIA/SOFFIT DETAIL

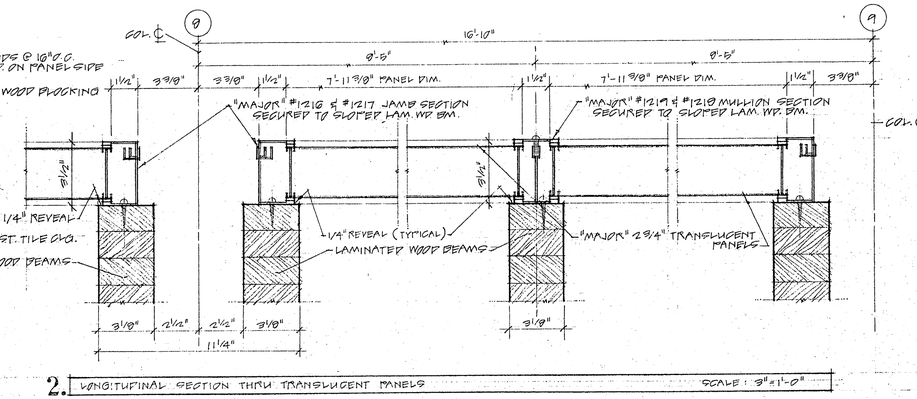
AS BUILT
AUGUST 1, 1992

MP 3.

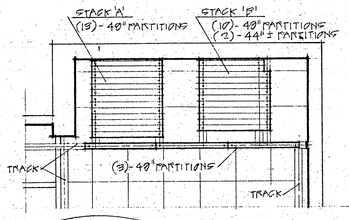
11·18·88



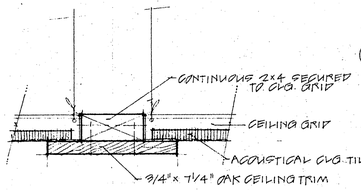
1. TRANSVERSE SECTION THRU TRANSLUCENT PANELS SCALE: 3"=1'-0"



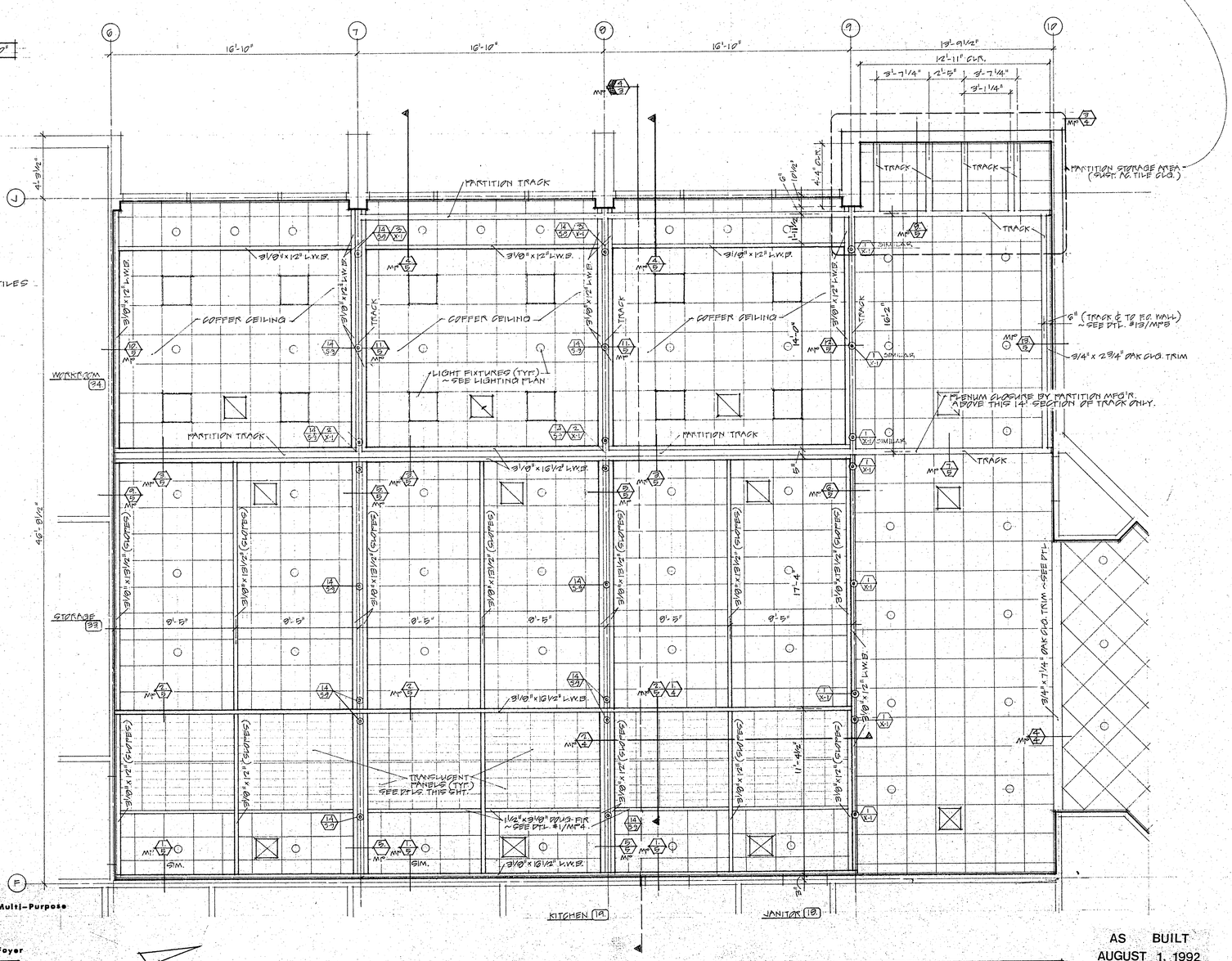
2. LONGITUDINAL SECTION THRU TRANSLUCENT PANELS SCALE: 3"=1'-0"

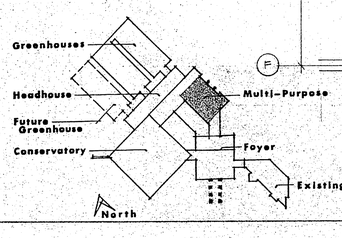


3. REFLECTED CEILING PLAN AT PARTITION STORAGE 1/4"=1'-0"



4. CEILING TRIM 3"=1'-0"





PARTIAL MULTI-PURPOSE RM. 12 REFLECTED CEILING PLAN SCALE: 1/4"=1'-0"

AS BUILT
AUGUST 1, 1992

1-19-92: LWB HANGERS NOTED @ SEE DETAILS
11-18-88

STUART WILLIAM GALLAHER, ARCHITECT, INC.
702 NORTH BLACKHAWK AVENUE • MADISON, WISCONSIN

BOTANICAL COMPLEX

OLBRICH

PARTIAL MULTI-PURPOSE GREENHOUSE
CEILING PLAN • REFLECTED CEILING PLAN
PARTITION STORAGE • SECTIONS • DETAILS

3330 ATWOOD AVENUE
MADISON, WISCONSIN

MP 4.

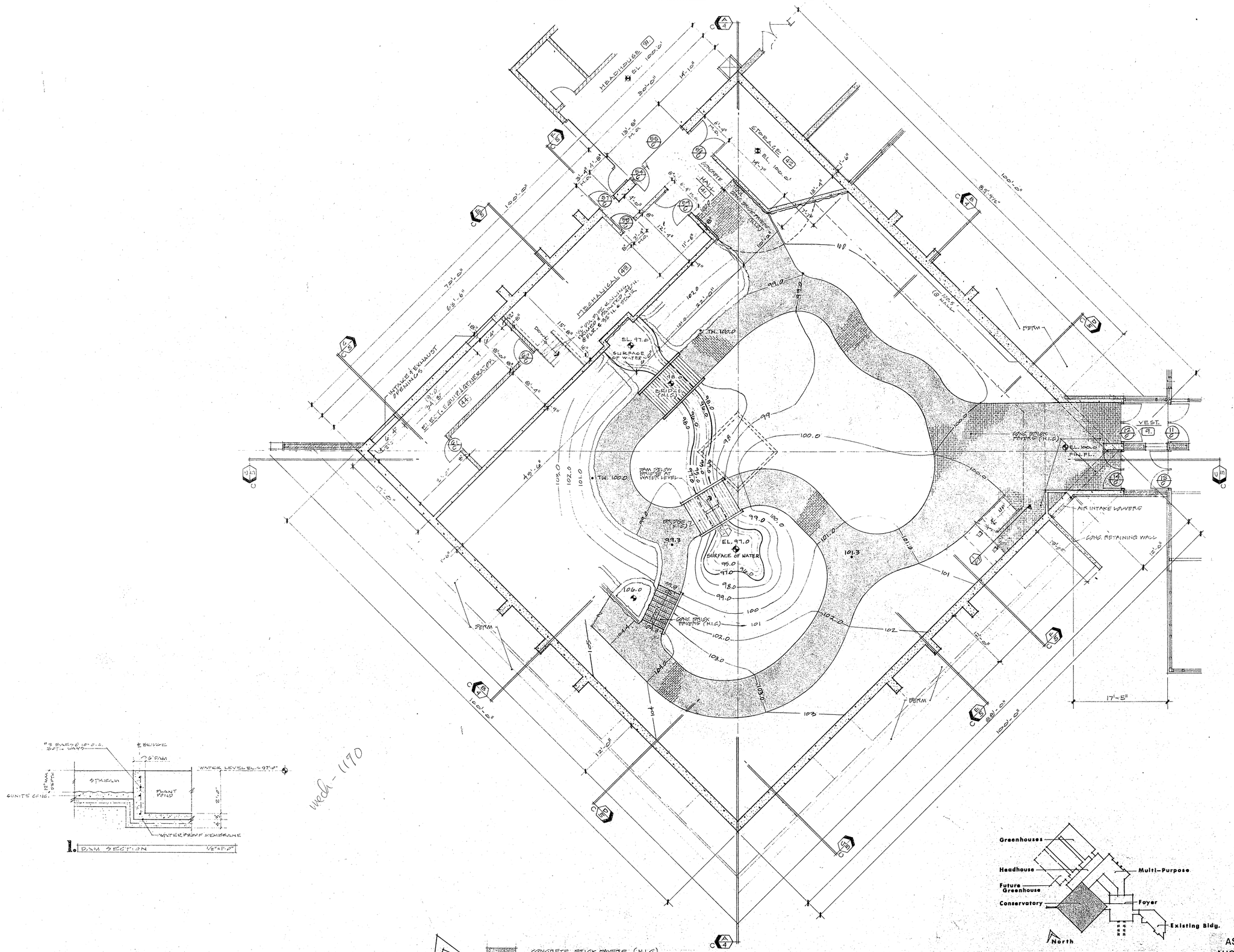
STUART WILLIAM GALLAHER, ARCHITECT, INC.
702 NORTH BLACKHAWK AVENUE • MADISON, WISCONSIN

OLBRICH BOTANICAL COMPLEX
3330 ATWOOD AVENUE
MADISON, WISCONSIN

MISCELLANEOUS LAMINATED WOOD BEAM (L.W.B.) & PARTITION DETAILS @ MULTI-PURPOSE ROOM

MP 5.

AS BUILT
AUGUST 1, 1992 11-18-88


HEADHOUSE
EL. 100.0
STORAGE
EL. 100.0
MECHANICAL
EL. 97.0
SURFACE OF WATER
BRIDGE (N.I.C.)
CONC. BRICK PAVERS (N.I.C.)
CONC. RETAINING WALL
AIR INTAKE LOUVERS
VEST.
FIN. FL.
EL. 100.0
BERM
EL. 97.0
SURFACE OF WATER
95.0
96.0
97.0
98.0
99.0
100
101
102.0
103.0
106.0
99.3
101.3
TH. 100.0
12" DIA. CONC. COLUMNS @ 15'-0" O.C.
INTAKE / EXHAUST OPENINGS
EL. EL. EQUIPMENT ACCESS
SLOPE
1:3
1:4
1:2
1:6
1:5
1:7
1:8
1:9
1:10
1:11
1:12
1:13
1:14
1:15
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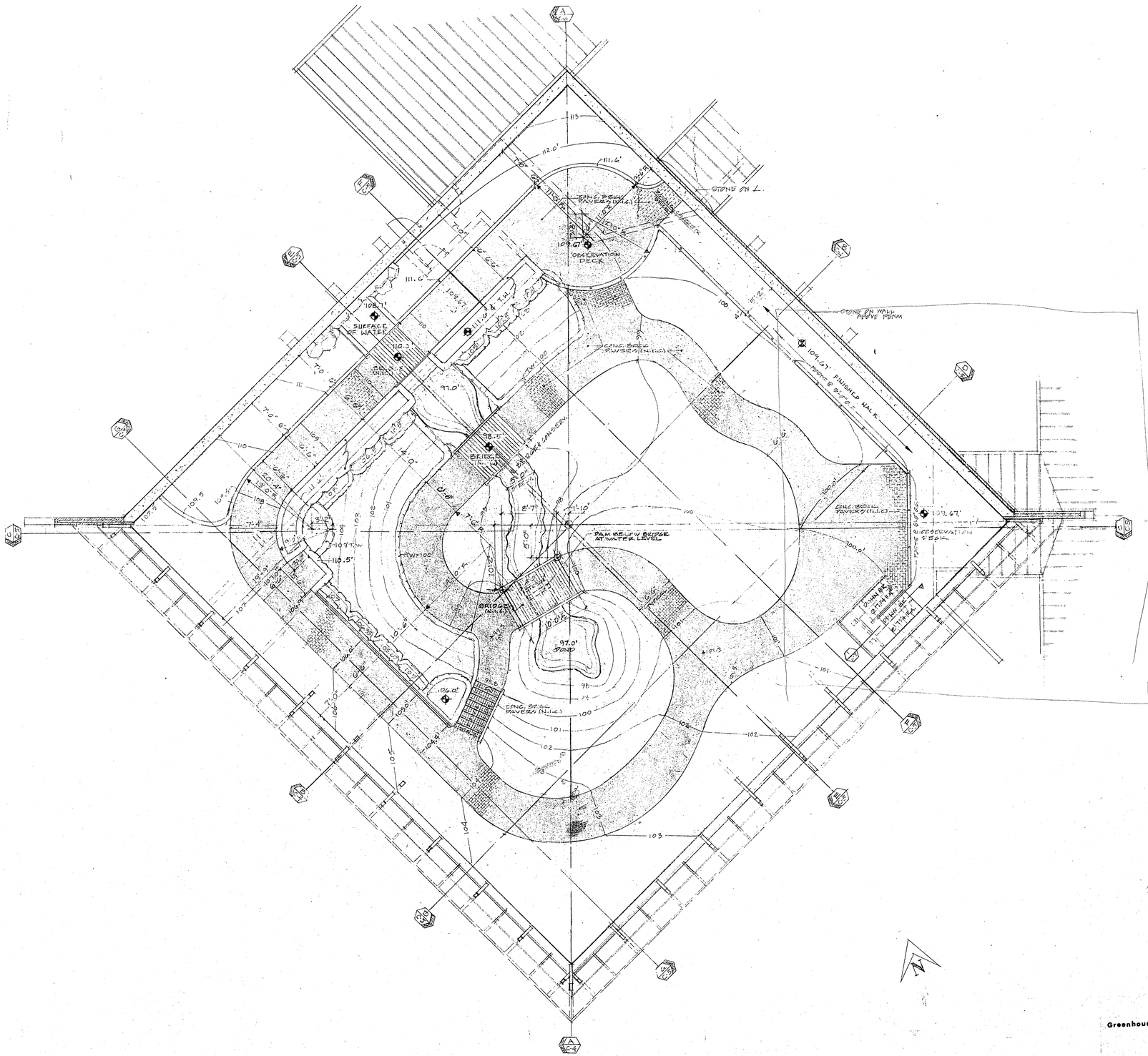
1:46



CONSERVATORY - UPPER LEVEL FLOOR PLAN SCALE: 1/8" = 1'-0"

CONCRETE BRICK PAVERS (N.I.C.)

CONSERVATORY SPECIFICATIONS & GENERAL NOTES

CONSERVATORY FILL & GRADING

Drainage Bed: shall be 12" deep consisting of the fill sand existing within the building perimeter.

Planting Beds: shall be brought up to the grades indicated on the Conservatory Floor Plans and shall be 24" deep above the Drainage Bed. Soils required for the Planting Bed will be furnished to the Contractor on the Building Site.

WATERPROOFING MEMBRANE: on the Conservatory side of Rooms #43, #44 & #45 shall be "BITUTHENE 3000" system as manufactured by Grace Construction. Application shall be by a Sub-contractor approved by the Manufacturer and shall be in accordance with Grace Construction Specifications.

SHADING SYSTEM: shall be supplied and installed by Cravo Equipment Ltd. (519-759-8226). Fabric shall be Cravo "Fireproof 50" (FSI=10) custom tailored with polyester loop tape and suspension hooks. Covers shall be suspended from stainless steel wires with corrosion proof hardware. Each horizontal row of Covers shall have a separate 1/3 HP, 120/60/1, reversible Gear motor. All Gear motors per quarter roof shall have adjustable light and temperature controls.

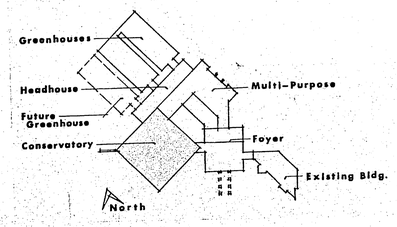
OPERATING SASH MOTORS, SHAFTS AND ARMS: shall be as manufactured by Wadsworth Contral Systems. Motors shall be #M-1135 VC-2000/2R (4 total) with power and control wiring. One rack and pinion drive arm shall be installed on each sash. All equipment shall be finished with white, exterior epoxy paint as manufactured by the Glidden Co.

ARTIFICAL ROCKWORK, WATERFALL, STREAM & POND SUBCONTRACTOR: shall have a minimum of seven (7) years experience in this type of construction and shall have the facilities for shop casting the required GFRC Panels. Submittal Drawings to the Architect shall be required for all phases of this work.

Artifical Rockwork shall be Glass Fiber Reinforced Concrete, (GFRC PANELS), Limestone Types #1 through #10 as shop cast by Cost of Wisconsin Construction, Inc. Connections and ties to concrete walls shall be furnished and installed by this Subcontractor. Additional footings required for the GFRC Panels shall be installed by this Subcontractor.

Water-fall, Stream and Pond shall be 3500 p.s.i. reinforced Shotcrete. Horizontal or inclined reinforcing shall be galvanized wire fabric 2" x 2" x 14 gauge Steel Tex. Vertical Shotcrete shall be backed up with "truss loop" manufactured by Bostwick Steel Lath Co. and #3 Bars at 10" o.c. both ways. Water proofing shall be "TREMPRO 60" as manufactured by Tremco. Shotcrete shall be applied with a dry-mix nozzle with speed and mixing controls (mixing range of 1:3 to 1:7)

Waterfall Equipment, Piping and Accessories shall be supplied and installed by this Subcontractor. The Plumbing Sub-contractor shall install the required piping to the Pump System.



AS BUILT
AUGUST 1, 1992

REVISION: 9.1.90-5'-0" STREAM, BRIDGE & CONTOURS.

REVISION: 3.31.89 (CO.#2) DELETE 6" CONSERVATORY CURB PER DETAIL #2/C-5

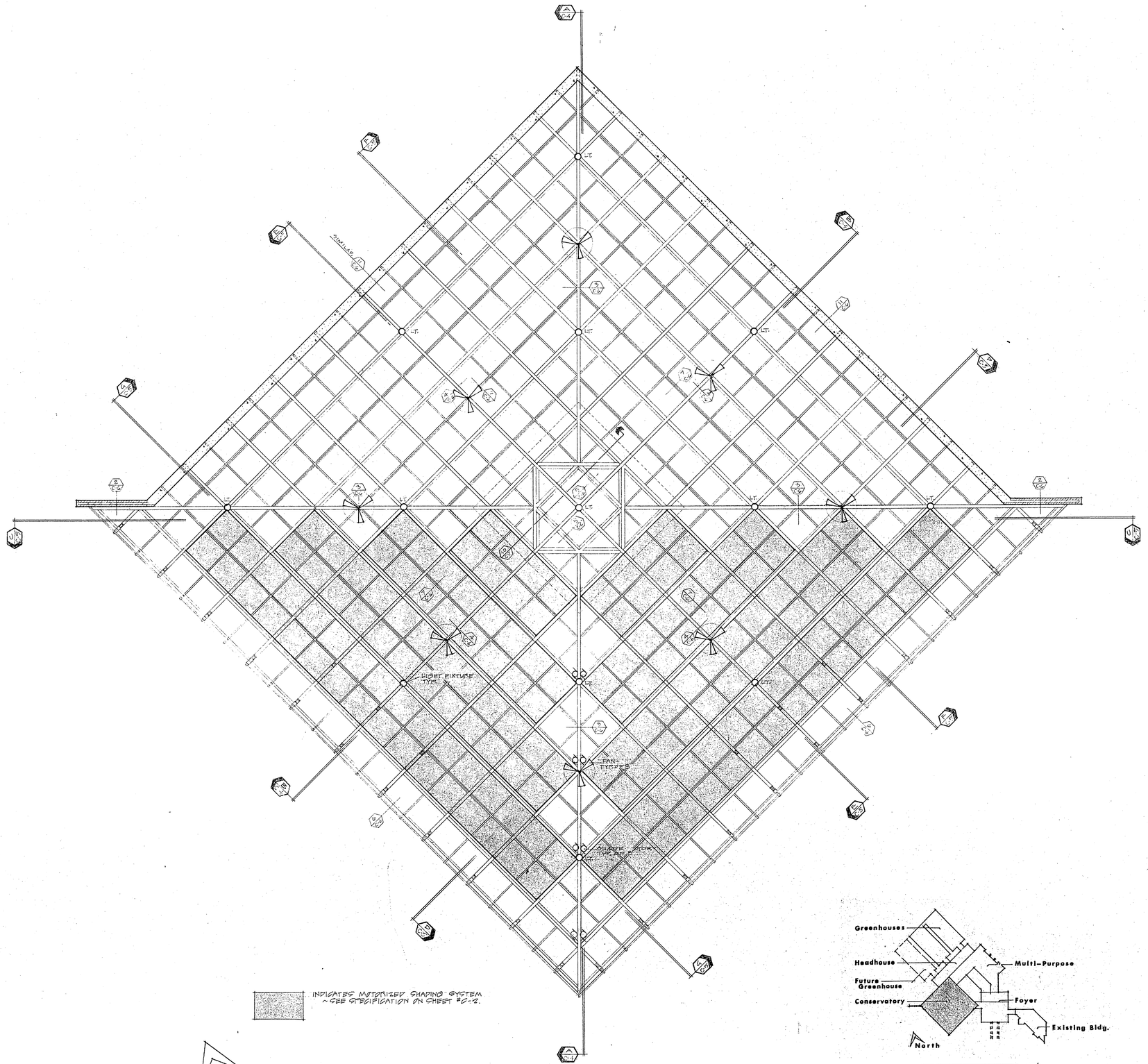
11.18.88

STUART WILLIAM GALLAHER, ARCHITECT, INC.
702 NORTH BLACKHAWK AVENUE MADISON, WISCONSIN

OLBRICH BOTANICAL COMPLEX
3330 ATWOOD AVENUE MADISON, WISCONSIN

CONSERVATORY - UPPER LEVEL FLOOR PLAN • CONSERVATORY SPECIFICATIONS & GENERAL NOTES •

C-2.



INDICATES MOTORIZED SHADING SYSTEM ~SEE SPECIFICATION ON SHEET #C-2.

CONSERVATORY - REFLECTED CEILING PLAN

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

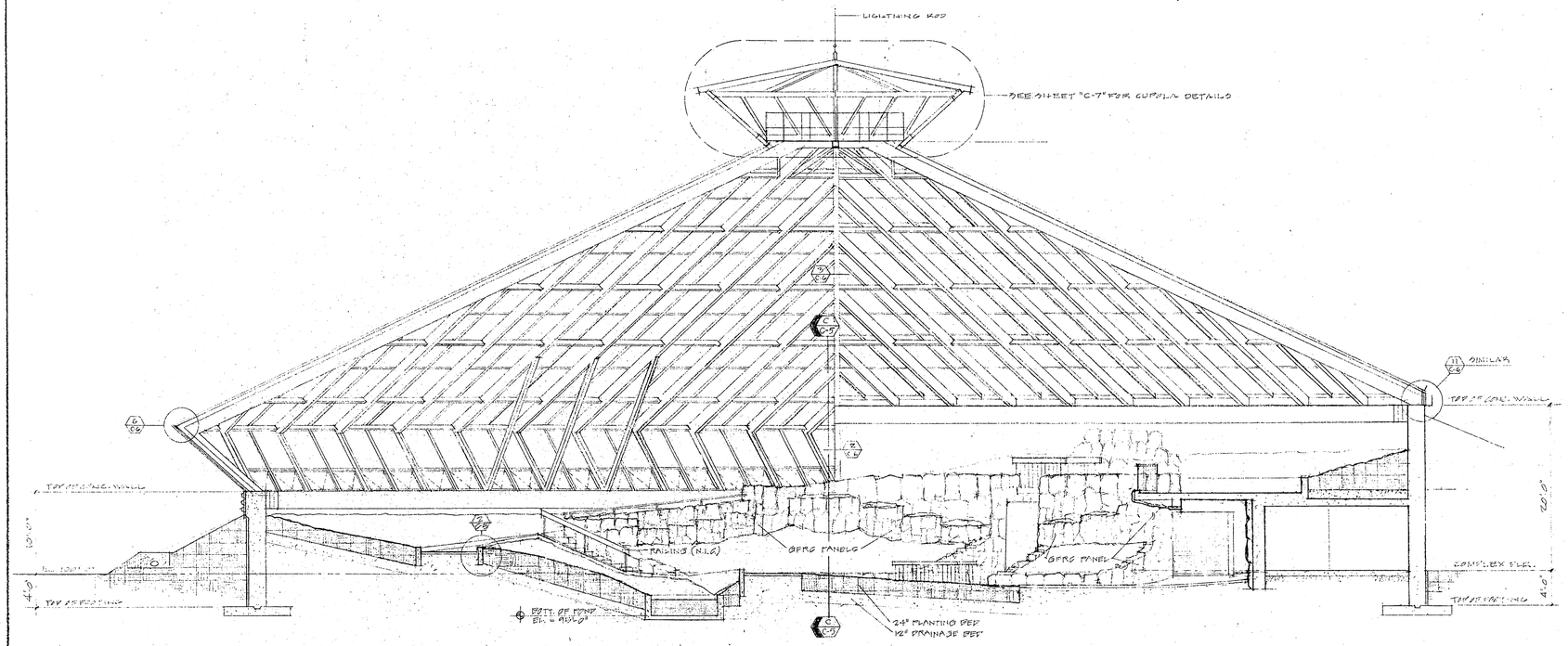
AS BUILT
AUGUST 1, 1992
11-18-92

STUART WILLIAM GALLAHER, ARCHITECT, INC.
702 NORTH BLACKHAWK AVENUE MADISON, WISCONSIN 53705

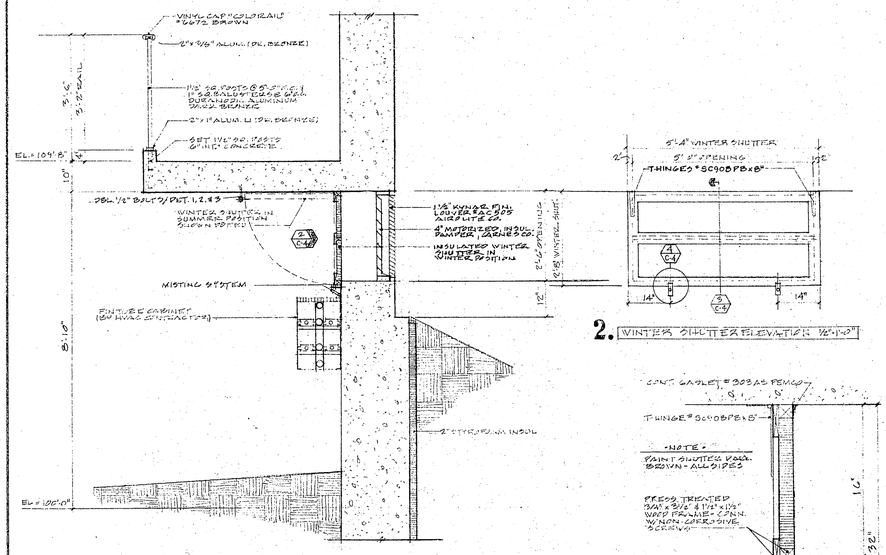
OLBRICH BOTANICAL COMPLEX
3330 ATWOOD AVENUE
MADISON, WISCONSIN

CONSERVATORY - REFLECTED CEILING PLAN

C-3.

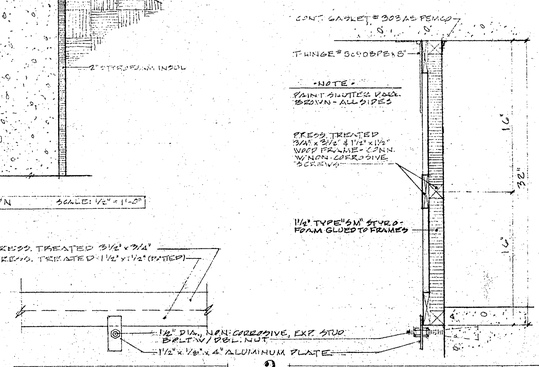


A-A. SECTION THRU CONSERVATORY - SOUTH/NORTH — SCALE: 1/8"=1'-0"

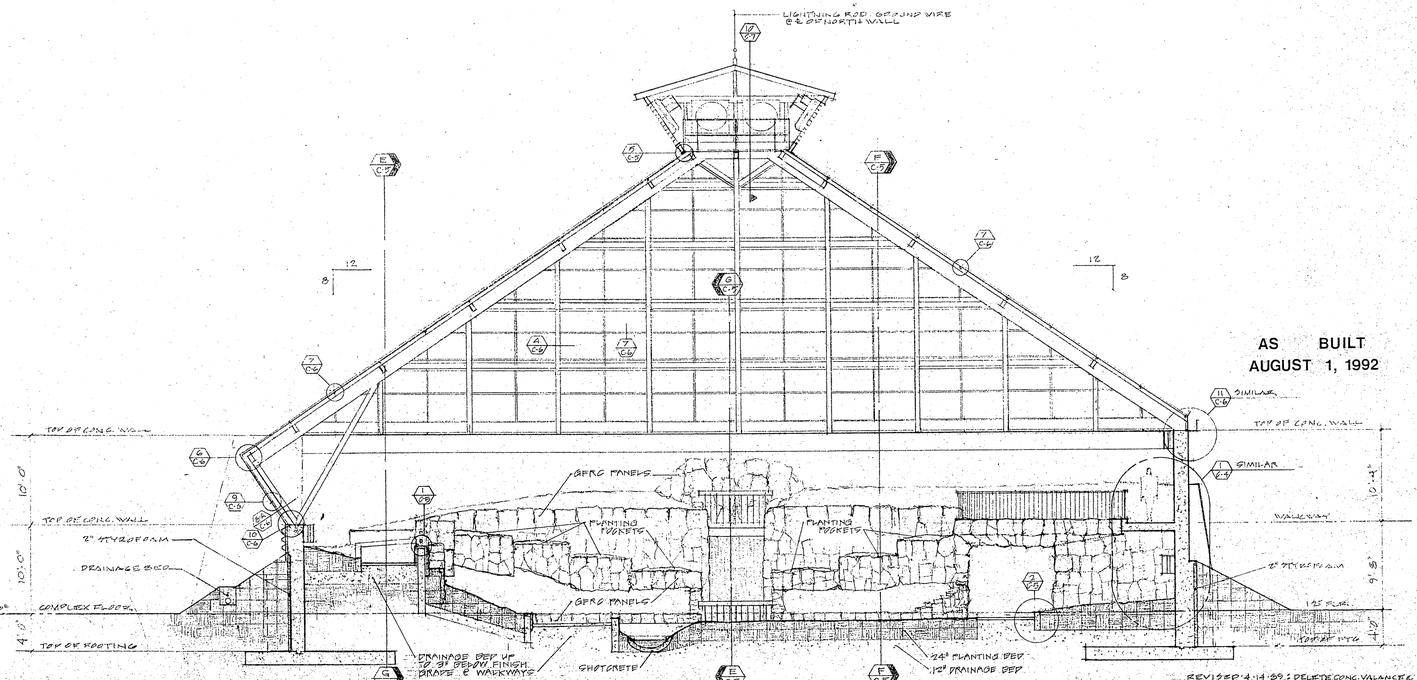


1. ELEVATED WALK & LOUVER AIR INTAKE SECTION — SCALE: ½"=1'-0"

2. WINTER SHUTTER ELEVATION ½"=1'-0"



4. SHUTTER BOLT DETAIL 1½"=1'-0" **3.** WINTER SHUTTER SECTION 1½"=1'-0"



B-B. SECTION THRU CONSERVATORY - WEST/EAST

AS BUILT
AUGUST 1, 1992

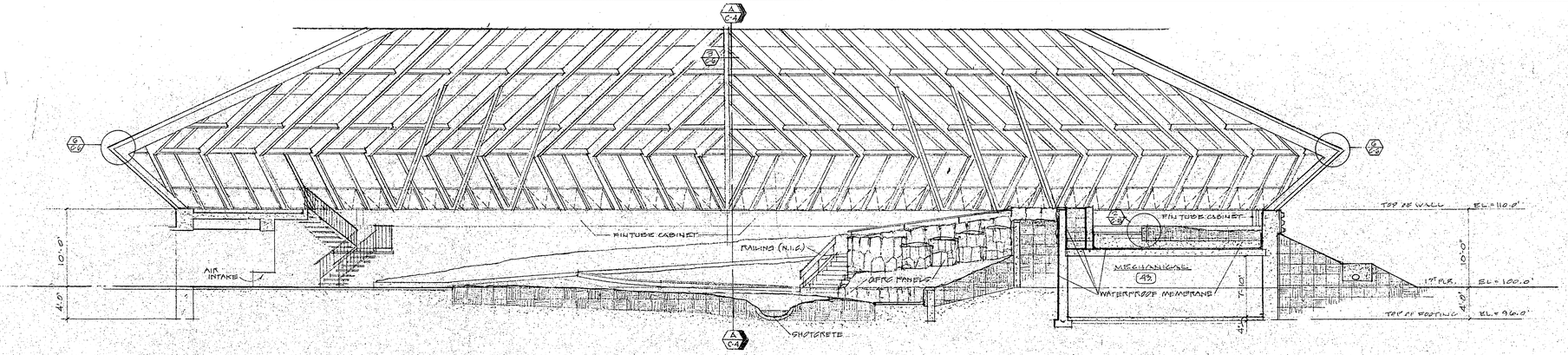
REVISED: 4-14-89, DELETE CONC. VALANCE & SHOW SHEET 1, SERIES DET. 1, 2, & 3
SCALE: 1/8" = 1'-0"
11-18-88

STUART WILLIAM GALLAHER, ARCHITECT, INC.
702 NORTH BLACKHAWK AVENUE • MADISON, WISCONSIN

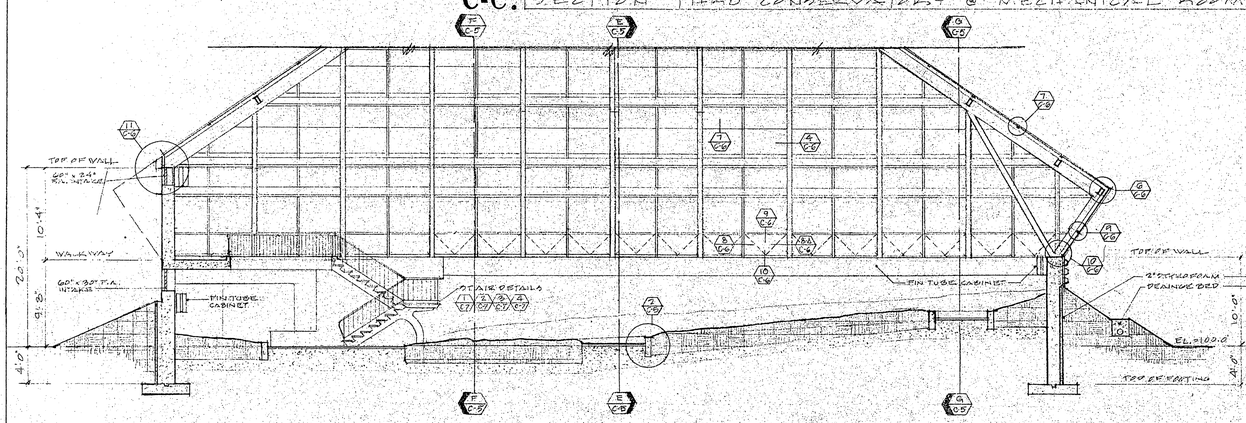
OLBRICH BOTANICAL COMPLEX
2330 ATWOOD AVENUE
MADISON, WISCONSIN

½" BUILDING SECTIONS THRU CONSERVATORY

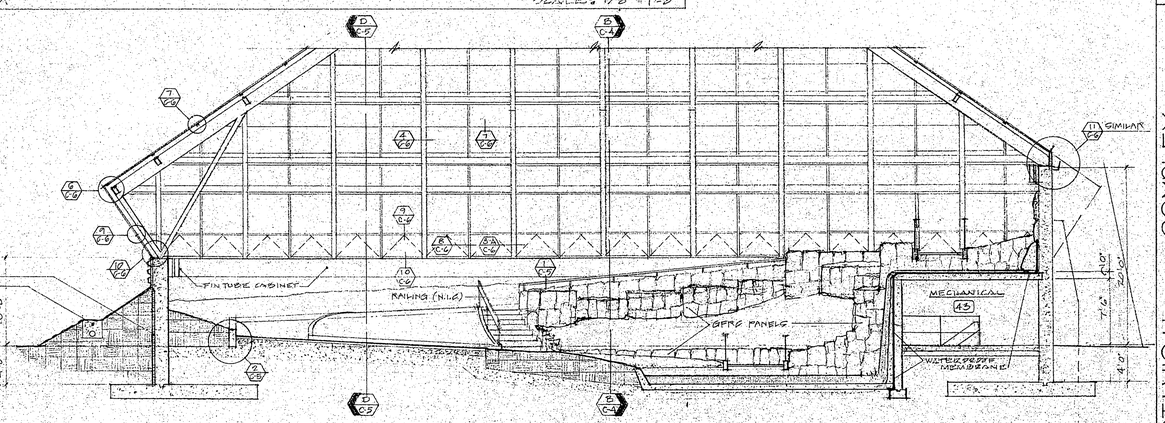
C-4.



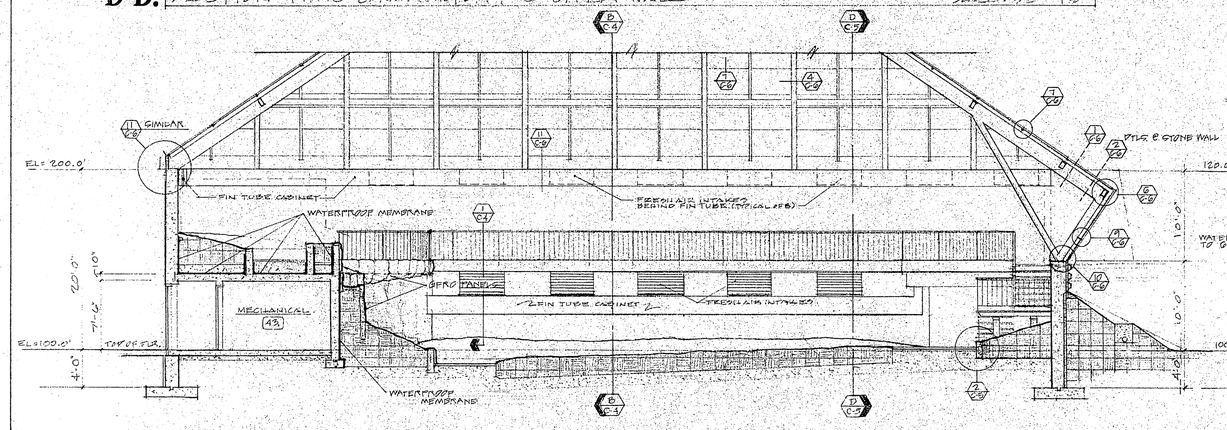
C-C. SECTION THRU CONSERVATORY @ MECHANICAL ROOM — SCALE: 1/8" = 1'-0"



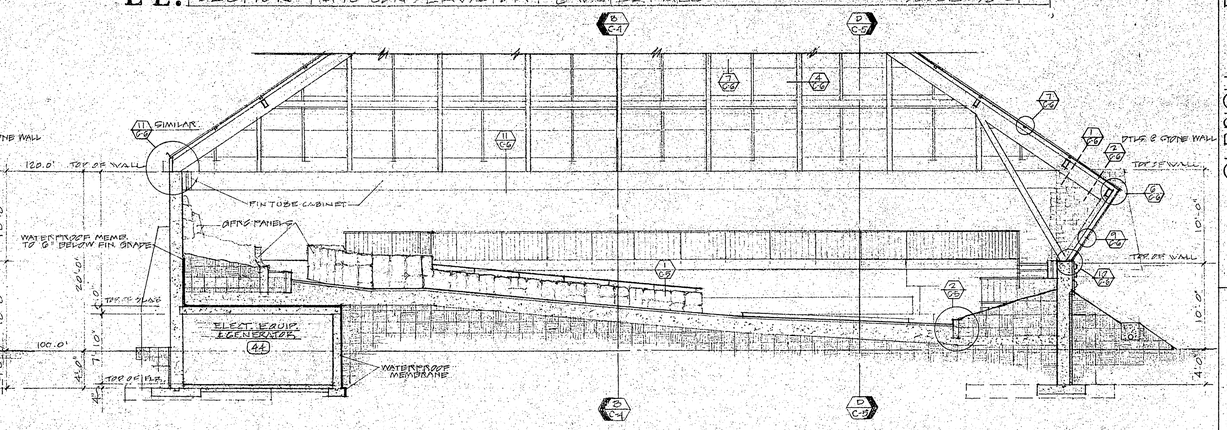
D-D. SECTION THRU CONSERVATORY @ UPPER WALL — SCALE: 1/8" = 1'-0"



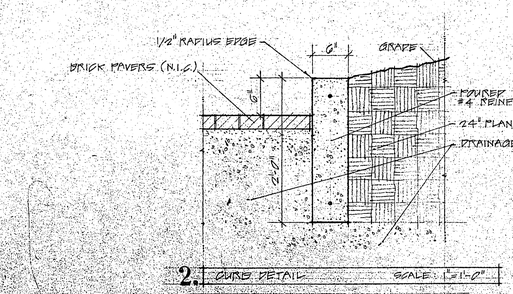
E-E. SECTION THRU CONSERVATORY @ WATER FALL — SCALE: 1/8" = 1'-0"



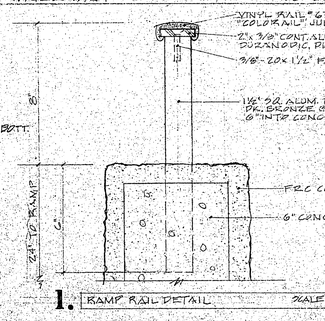
F-F. SECTION THRU CONSERVATORY @ UPPER WALK & MECH. RM. — SCALE: 1/8" = 1'-0"



G-G. SECTION THRU CONSERVATORY @ RAMPED WALKWAY — SCALE: 1/8" = 1'-0"



2. CURB DETAIL — SCALE: 1" = 1'-0"



1. RAMP RAIL DETAIL — SCALE: 3/4" = 1'-0"

AS BUILT
AUGUST 1, 1992

REVISED 4/13/89, REMOVE CONC. VALANCE & SECTION E-E
11-18-88

STUART WILLIAM GALLAHER, ARCHITECT, INC.
702 NORTH BLACKHAWK AVENUE • MADISON, WISCONSIN

BOTANICAL COMPLEX
MADISON, WISCONSIN

OLBRICH
3330 ATWOOD AVENUE

1/8" BUILDING SECTIONS THRU CONSERVATORY •

C-5.

NOTES & SPECIFICATIONS

(A) GLAZING FRAMEWORK: ALL ALUMINUM MEMB. SHALL BE FINISHED W/ KYNAR 500 WHITE. MEMBERS SHALL BE EXTRUDED ALUM. REF. DETAILS FOR AS MANUF. BY DUPONT, PPG IND., EFCO, WASCO OR APPROVED EQUAL. PURLIN MEMB SHALL BE CAPPED W/ RAFTER MEMB. SHALL HAVE SNAP-ON CAPS W/ CONCEALED FASTENERS.

(B) INSULATING GLASS: LOW IRON, CLEAR GLAZING, ¼" HEAT STRENGTHED EXTERIOR LITE, ½" SEALED AIR SPACE, 2 LAYERS ¼" GLASS LAMINATED W/ POLYVINYL BUTYRAL. BREAKAGE PROBABILITY SHALL NOT EXCEED 1/1000.

(C) GLAZING STRIPS: TYPE I, HEAT CURED, BLACK, SILICONE RUBBER TYPE A 50 ± 5 DUROMETER.

(D) SETTING BLOCKS: TYPE II, EXTRUDED, BLACK, SILICONE RUBBER TYPE A 80 ± 5 DUROMETER.

(E) FASTENERS: ASTM B211 2024-T4 ALUMINUM; ASTM A193 B8 300 SERIES STAINLESS STEEL OR ASTM B16 ALUM. RIVETS AS REQUIRED FOR RAFTER CONNECTION.

SEALANTS: SHALL BE COMPATIBLE W/ SUBSTRATES & DEVELOP FULL ADHESIVE & COHESIVE STRENGTH WHEN SUBJECT TO BOTH LONG MOVEMENTS & SHALL BE APPLIED IN ACCORDANCE W/ MANUFACTURER'S SPECIFICATIONS.

(F) STRUCTURAL FLUSH GLAZING SEALANT: HIGH PERFORMANCE SILICONE SEALANT, NEUTRAL CURE, MEDIUM TO HIGH MODULUS.

(G) NON-STRUCTURAL & WEATHER SEAL JOINTS: SILICONE SEALANTS APPLIED IN ACCORDANCE W/ MANUF. SPECIFICATIONS.

(H) DISSIMILAR METALS CONNECTIONS: SEPARATE W/ BITUMASTIC PAINT, NEOPRENE OR APPROVED NON-CONDUCTIVE MATERIAL.

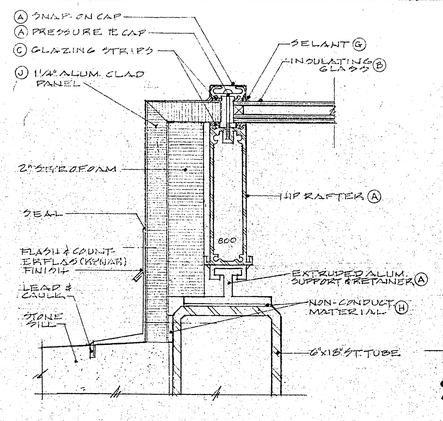
(J) ALUMINUM CLAD PANEL: 0.04", KYNAR FINISHED ALUMINUM LAMINATED TO SEMI-RIGID FOAM INSULATION, THICKNESS AS AS INDICATED ON DETAILS.

SKYLIGHT/CONSERVATORY CONTRACTOR QUALIFICATIONS

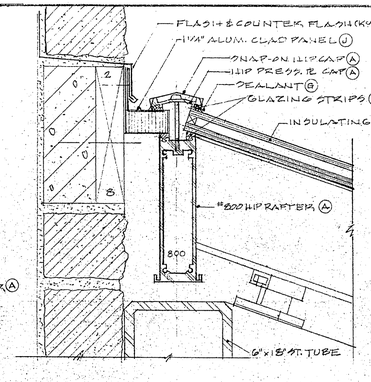
ENGINEERING, FABRICATION, FINISHING, PREPARATION AT THE JOB SITE, ERECTION & GLAZING OF THE CONSERVATORY & SKYLIGHT SYSTEMS SHALL BE DONE BY THE CONSERVATORY/SKYLIGHT MANUFACTURER.
THE MANUFACTURER SHALL HAVE & SUBMIT A RECORD OF 5 YEARS EXPERIENCE IN THIS TYPE OF WORK.

WARRANTIES

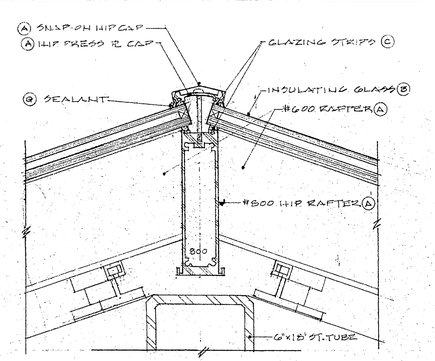
THE INSTALLED SYSTEMS SHALL BE FREE FROM DEFECTS IN DESIGN, MATERIAL, CONSTRUCTION & LEAKAGE. FINISHES SHALL NOT COLOR, FLAKE, CHIP OR PIT, AND SEALANTS SHALL NOT BLEED, LOOSE COLOR, CRACK OR OVER HARDEN FOR 10 YEARS AFTER SUBSTAINTIAL COMPLETION.



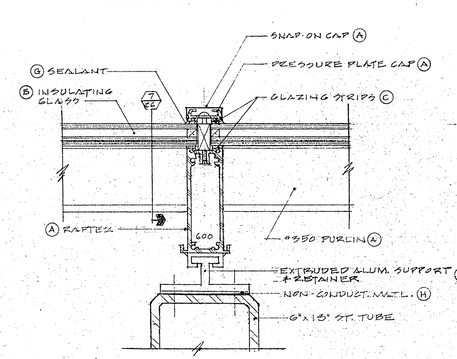
1. HIP RAFTER ABOVE STONE PIER 3"=1'-0"



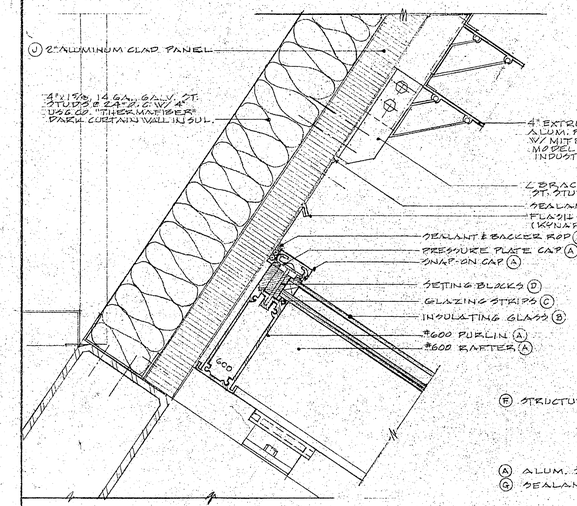
2. HIP RAFTER @ STONE PIER 3"=1'-0"



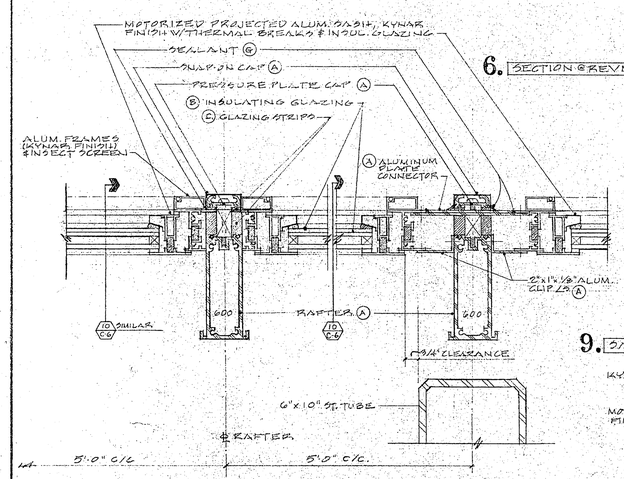
3. HIP RAFTER SECTION SCALE: 3"=1'-0"



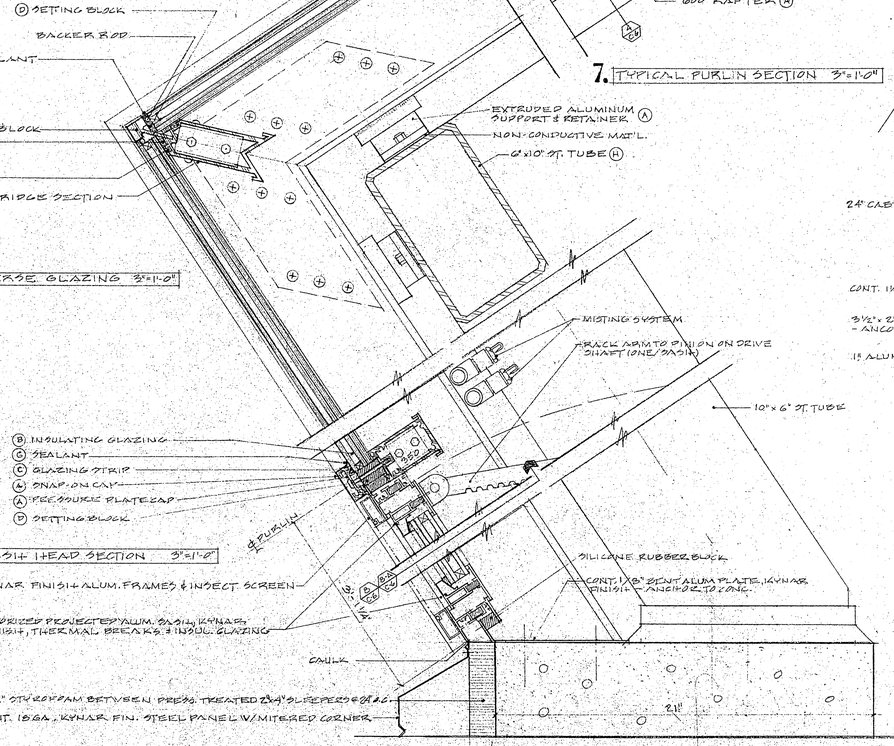
4. TYPICAL RAFTER SECTION SCALE: 3"=1'-0"



5. PURLIN SECTION @ CUPOLA SCALE: 3"=1'-0"



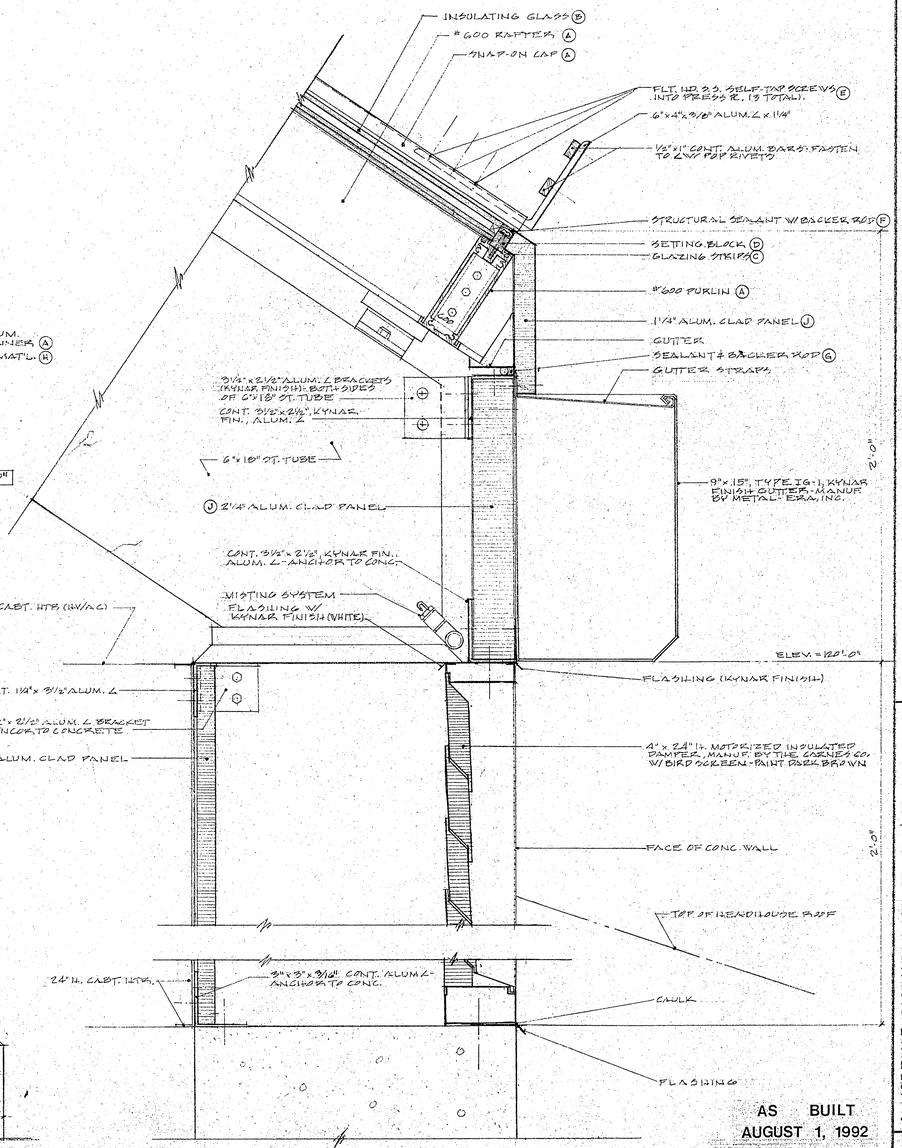
8. OPERABLE SASH @ RAFTER 3"=1'-0" **8-A.** OPERABLE SASH @ STRUCTURE 3"=1'-0"



7. TYPICAL PURLIN SECTION 3"=1'-0"

9. SASH HEAD SECTION 3"=1'-0"

10. OPERABLE SASH SILL SECTION SCALE: 3"=1'-0"



11. SILL SECTION @ 20'-0" H. WALL SCALE: 3"=1'-0"

AS BUILT
AUGUST 1, 1992

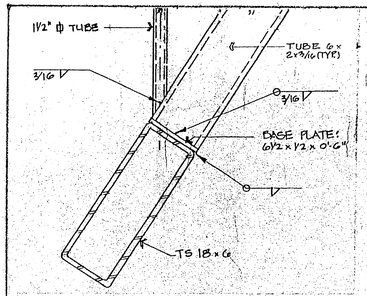
REVISED 4-14-89: ST. LOUVERS & DET 5; DELETE STONE & LOUVER 6 DET. 11. 11-16-88

STUART WILLIAM GALLAHER, ARCHITECT, INC.
202 NORTH BLACKHAWK AVENUE • MADISON, WISCONSIN

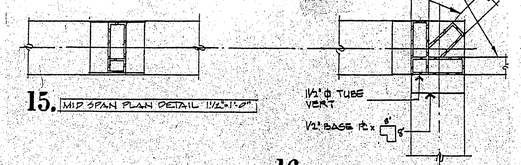
OLBRICH BOTANICAL COMPLEX
MADISON, WISCONSIN

CONSERVATORY GLAZING DETAILS & SPECIFICATIONS
3330 ATWOOD AVENUE

C-6.



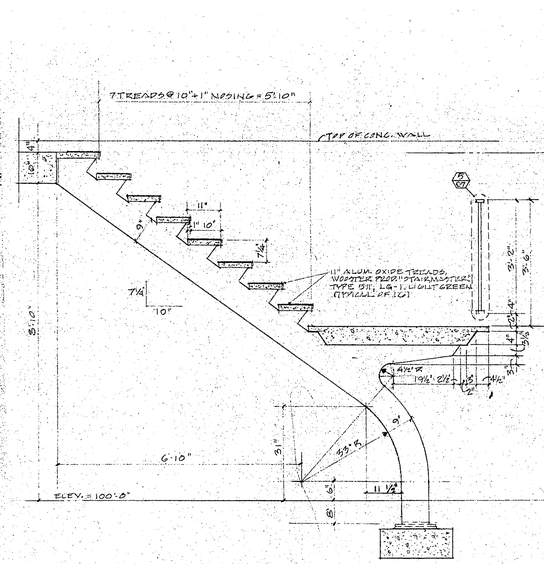
14. CUPOLA FRAMING DETAIL SCALE: 1½"=1'-0"



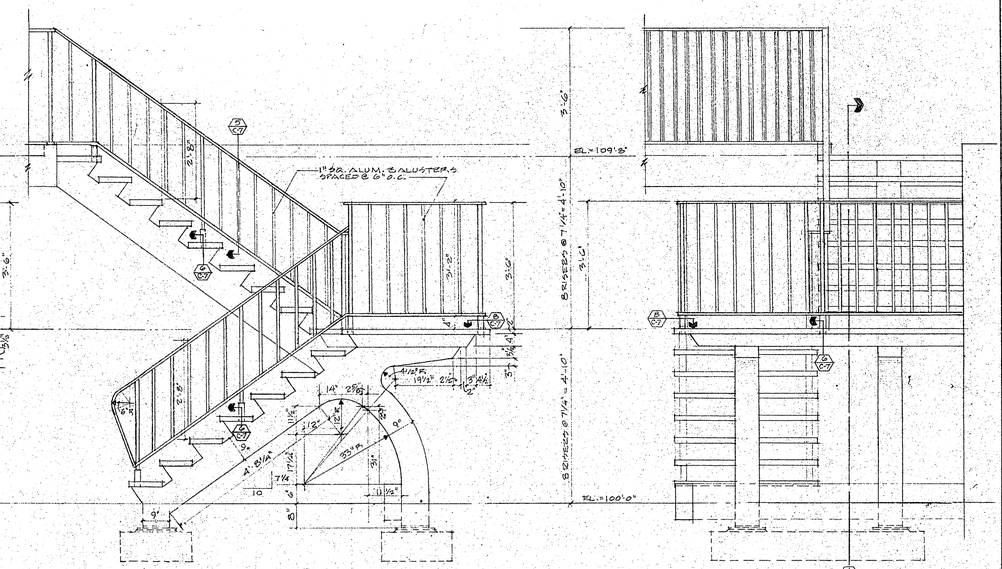
17. ROOF HIP DETAIL SCALE: 1½"=1'-0"

15. MID SPAN PLAN DETAIL 1½"=1'-0"

16. CORNER PLAN DETAIL 1½"=1'-0"

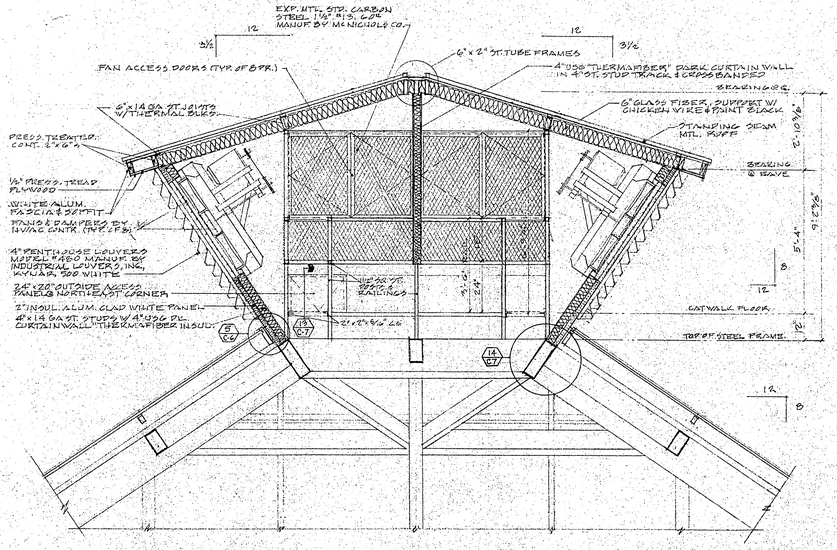


1. UPPER STAIR RUN SECTION/ELEVATION SCALE: ½"=1'-0"

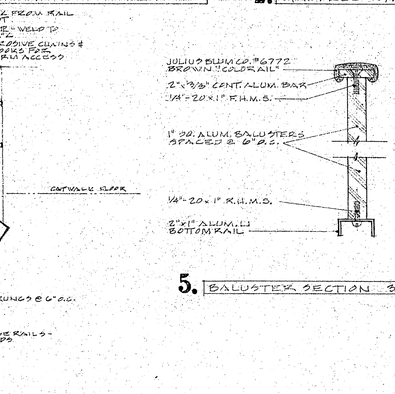


2. STAIR ELEVATION SCALE: ½"=1'-0"

3. STAIR ELEVATION SCALE: ½"=1'-0"

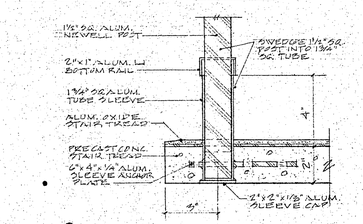


10. CONSERVATORY CUPOLA SECTION SCALE: 3/8"=1'-0"

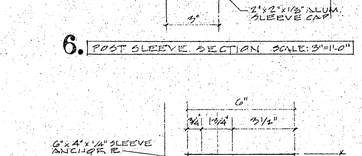


12. ACCESS LADDER SECTION 3/8"=1'-0"

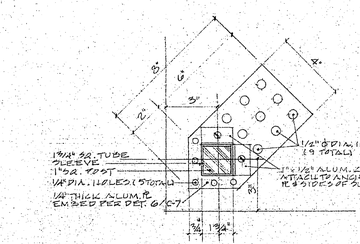
5. BALUSTER SECTION 3"=1'-0"



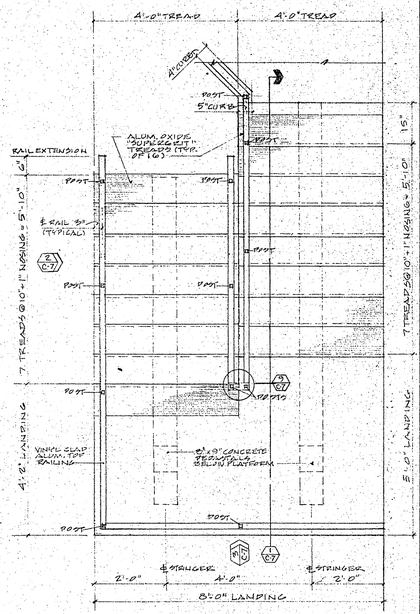
6. POST SLEEVE SECTION SCALE: 3"=1'-0"



7. POST SLEEVE CONN. PLAN SCALE: 3"=1'-0"

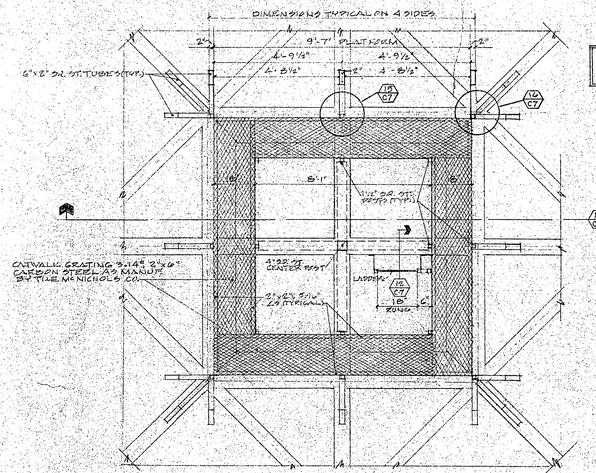


8. CORNER POST SLEEVE ANCHOR SCALE: 3"=1'-0"



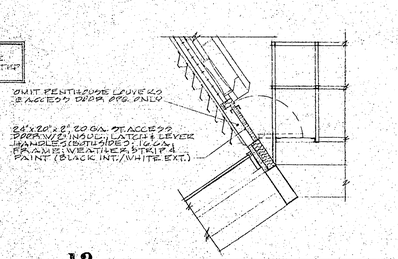
4. CONSERVATORY STAIR PLAN SCALE: ½"=1'-0"

9. LANDING CENTERPOST PLAN SCALE: 3"=1'-0"



11. CONSERVATORY CUPOLA PLAN SCALE: 3/8"=1'-0"

•NOTE•
THE INTERIOR OF THE CUPOLA SHALL BE PAINTED WITH BLACK EPOXY.



13. ACCESS DOOR SECTION SCALE: 3/8"=1'-0"

STUART WILLIAM GALLAHER, ARCHITECT, INC.
700 NORTH BLACKHAWK AVENUE • MADISON, WISCONSIN

BOTANICAL COMPLEX
MADISON, WISCONSIN

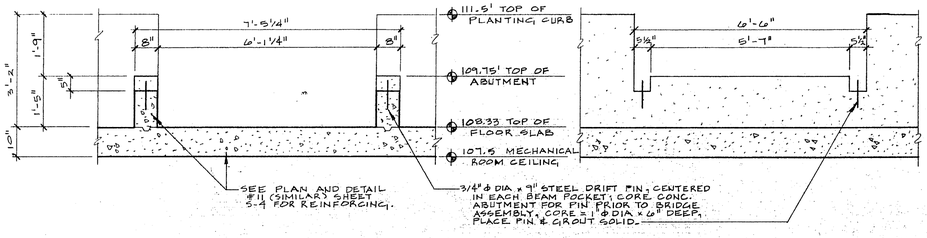
OLBRICH
3330 ATWOOD AVENUE

CONSERVATORY STAIR & CUPOLA DETAILS •

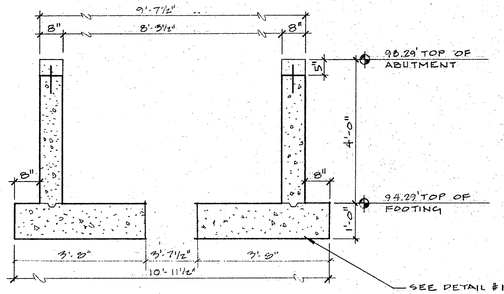
AS BUILT
AUGUST 1, 1992

C-7.

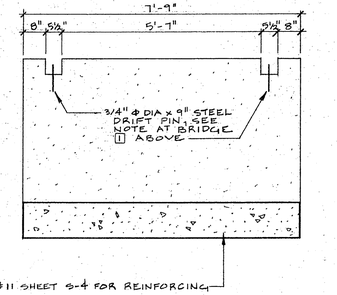
REVISED 4-14-89: ADD CUPOLA DETAILS #14, 15, 16 & 17.
11-15-88



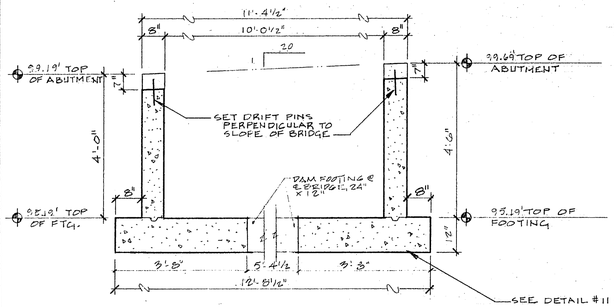
1. A. LONGITUDINAL SECTION



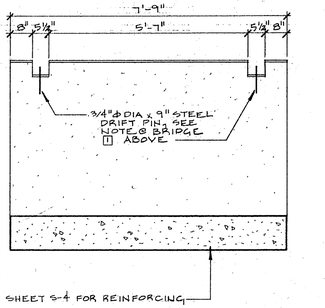
1. B. TRANSVERSE SECTION



2. A. LONGITUDINAL SECTION



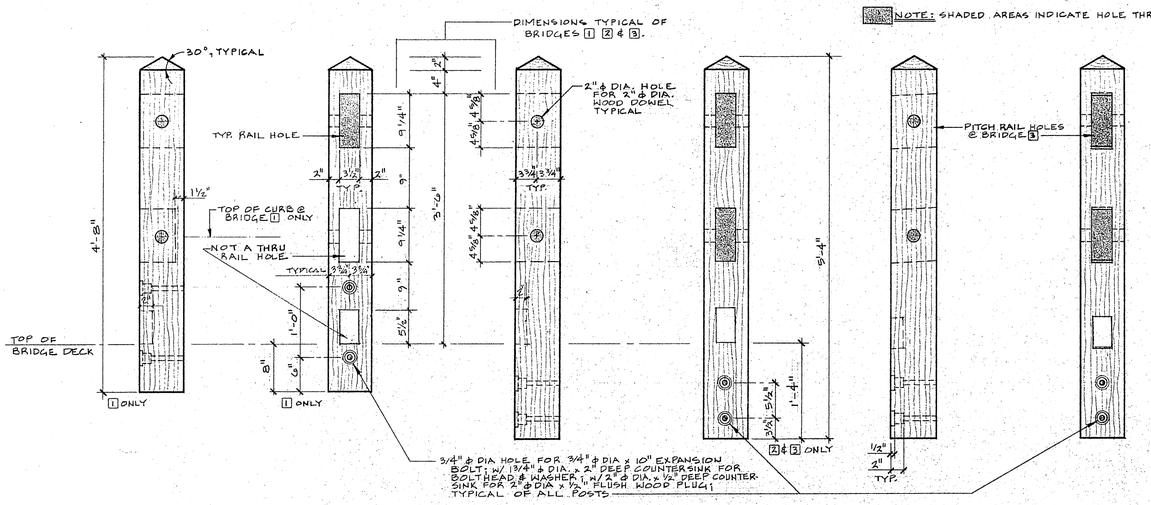
2. B. TRANSVERSE SECTION



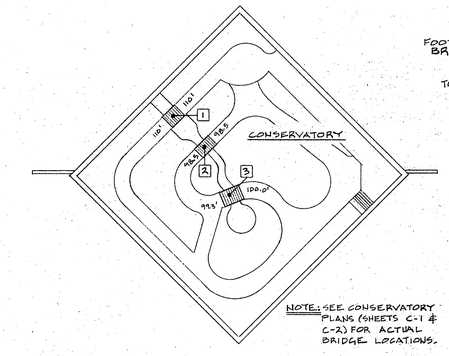
3. A. LONGITUDINAL SECTION

3. B. TRANSVERSE SECTION

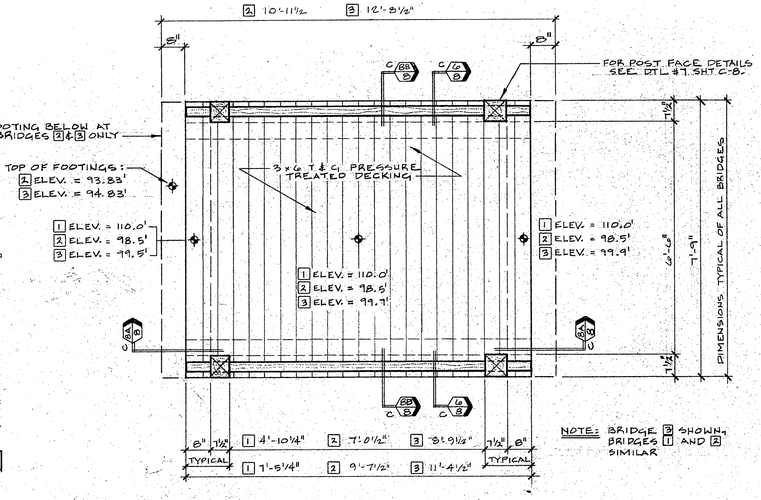
8. BRIDGE ABUTMENT SECTIONS — SCALE: ½" = 1'-0"



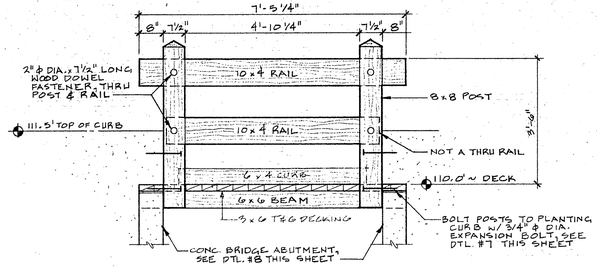
7. 8 x 8 BRIDGE POST DETAILS — SCALE: 1" = 1'-0"



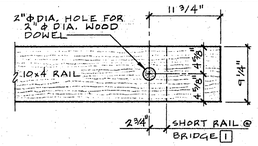
BRIDGE LOCATION KEY — NOT TO SCALE



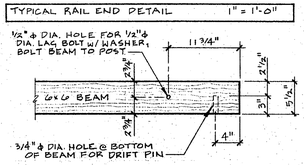
TYPICAL PLAN VIEW — SCALE: ½" = 1'-0"



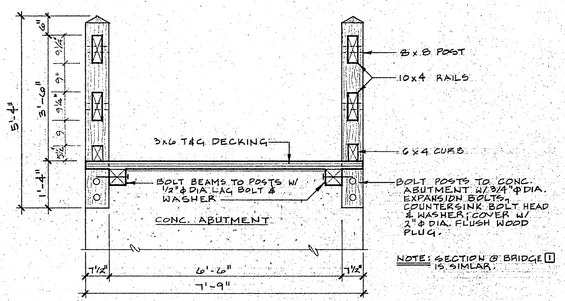
1. ELEVATION ~ BRIDGE 1 — SCALE: ½" = 1'-0"



4. TYPICAL RAIL END DETAIL — 1" = 1'-0"



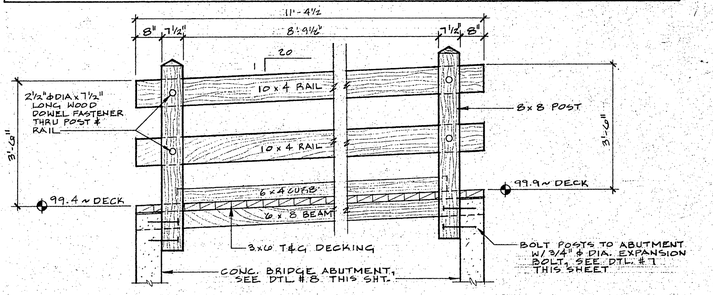
5. TYPICAL BEAM END DETAIL — 1" = 1'-0"



NOTE: SECTION @ BRIDGE 1 IS SIMILAR.

6. TYPICAL BRIDGE SECTION — SCALE: ½" = 1'-0"

2. ELEVATION ~ BRIDGE 2 — SCALE: ½" = 1'-0"



3. ELEVATION ~ BRIDGE 3 — SCALE: ½" = 1'-0"

BRIDGE SPECIFICATIONS

1. ALL WOOD COMPONENTS SHALL BE No. 2 SOUTHERN PINE IN THE SIZES LISTED, AND SHALL PRESSURE TREATED AS FOLLOWS:
   - A. DECKING = 3 x 6, WP-3905-A, (SHAPE), WITH THE V-NOTCH DOWN; TO 0.40 PCF RETENTION.
   - B. RAILS = 10 x 4"; TO 0.40 PCF RETENTION.
   - C. DOWELS = 2" ϕ DIA. FOR DOWEL PIN CONNECTION, AND BOLT HOLE PLUGS; TO 0.40 PCF RETENTION.
   - D. POSTS = 8 x 8"; TO 0.60 PCF RETENTION.
   - E. BEAMS = 6 x 6"; TO 0.60 PCF RETENTION.
2. PRESSURE TREATMENT SHALL BE "WOLMANIZED" BY KOPPERS CO. INC. (OR APPROVED EQUAL) AND SHALL MEET AWPA STANDARD P-5 AND FEDERAL STANDARDS TT-W-550 & TTEN-971.
3. NO MANUFACTURERS GRADE STAMPS SHALL BE VISIBLE ON THE FINISHED BRIDGES.
4. ALL METAL FASTENERS, WASHERS, ETC. SHALL BE GALVANIZED, AND RUST PROOF.
5. DOWEL PINS & BOLT HOLE PLUGS SHALL BE FLUSH AND GLUED IN PLACE WITH PHENOLIC RESIN GLUE.
6. ONE (1) YEAR AFTER CONSTRUCTION, BRIDGES SHALL RECEIVE TWO (2) COATS OF "AQUATROL" NATURAL FINISH; AS MANUFACTURED BY THE FLOOD CO.

AS BUILT
AUGUST 1, 1992

REVISED 2-9-90: CURBS ADDED TO BRIDGES.
REVISED 2-1-90: DIMENSIONS & FASTINGS @ BRIDGES "2" & "3".

5-19-89

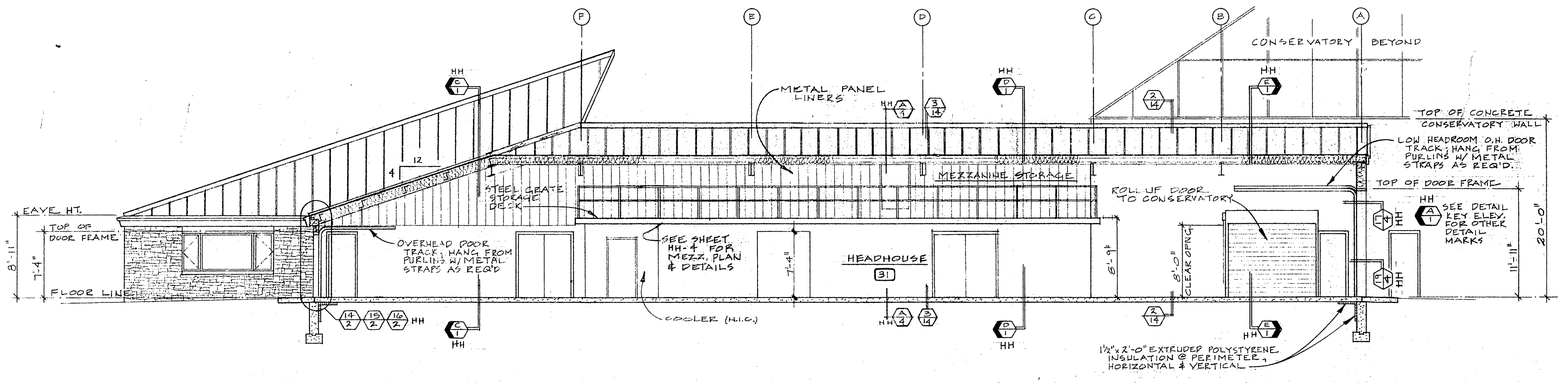
STUART WILLIAM GALLAHER, ARCHITECT, INC.
729 NORTH BLACKHAWK AVENUE MADISON, WISCONSIN

BOTANICAL COMPLEX
MADISON, WISCONSIN

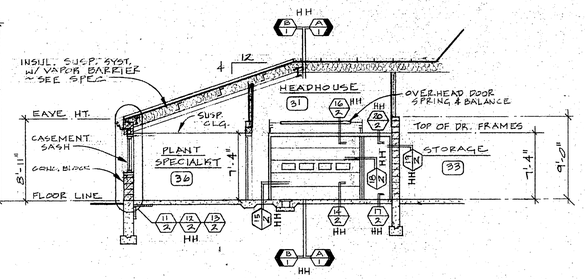
OLBRICH
3330 ATWOOD AVENUE

CONSERVATORY, BRIDGE PLAN & DETAILS
BRIDGE SPECIFICATION

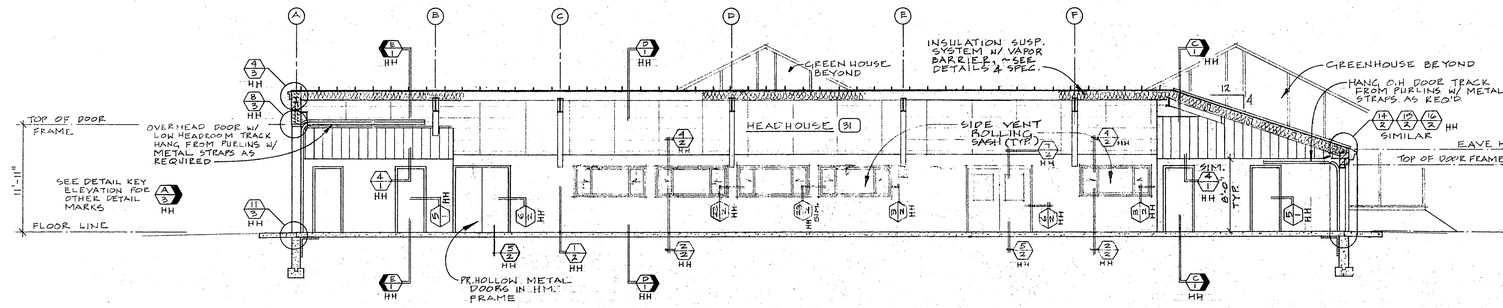
C-8.



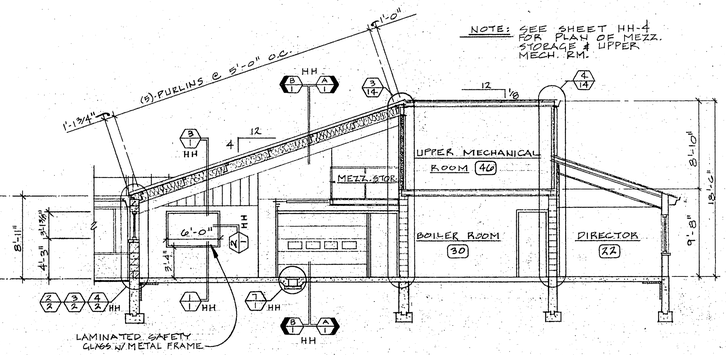
A-A. SECTION THRU HEADHOUSE - LOOKING SOUTHEAST SCALE: 1/8" = 1'-0"



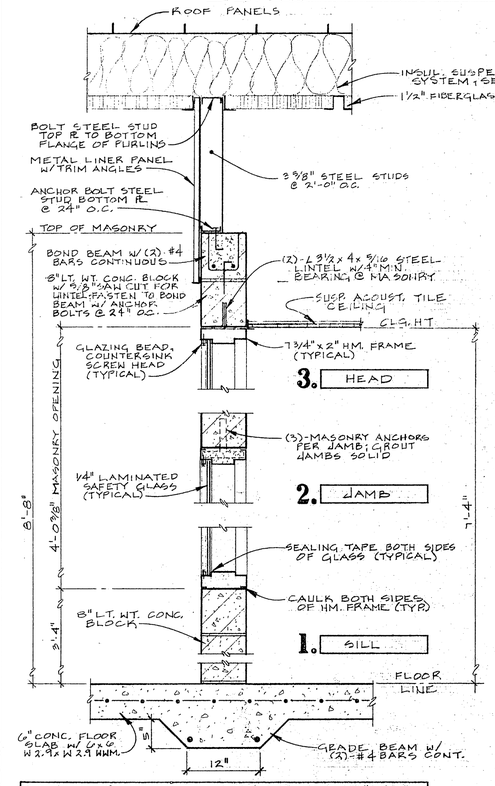
C-C. SECTION THRU HEADHOUSE AT PLANT SPECIALIST OFFICE SCALE: 1/8" = 1'-0"



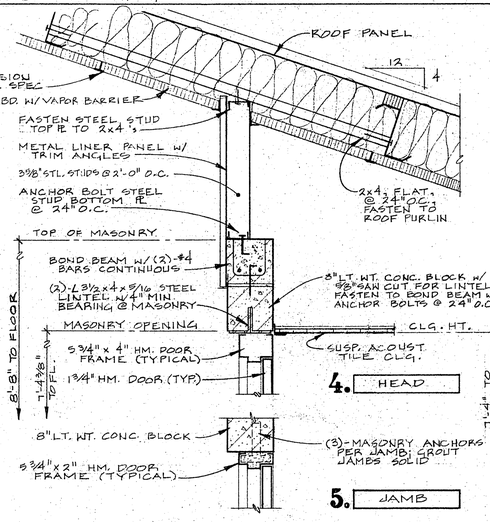
B-B. SECTION THRU HEADHOUSE - LOOKING NORTHWEST SCALE: 1/8" = 1'-0"



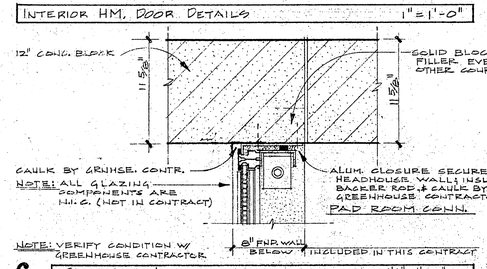
D-D. SECTION THRU HEADHOUSE AT MECHANICAL ROOM SCALE: 1/8" = 1'-0"



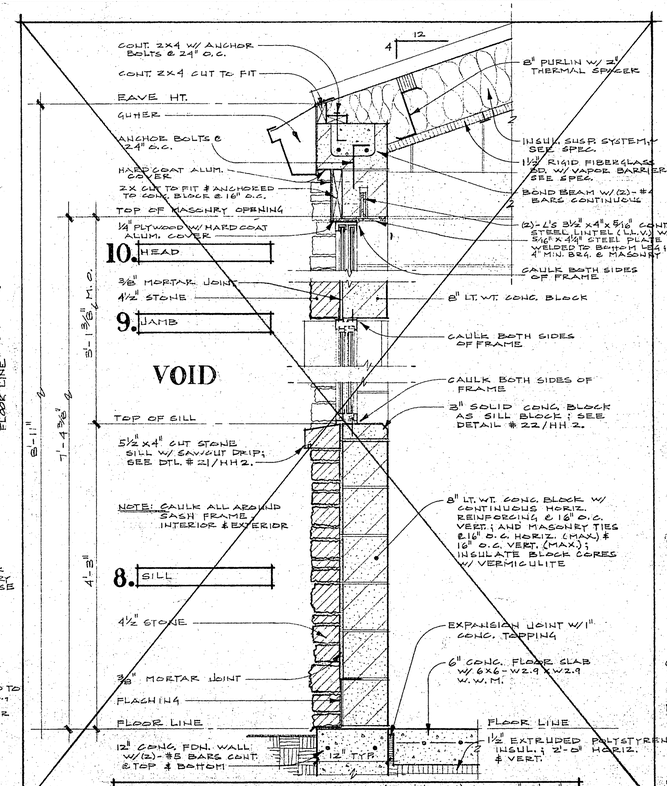
INTERIOR GLAZING DETAILS 1" = 1'-0"



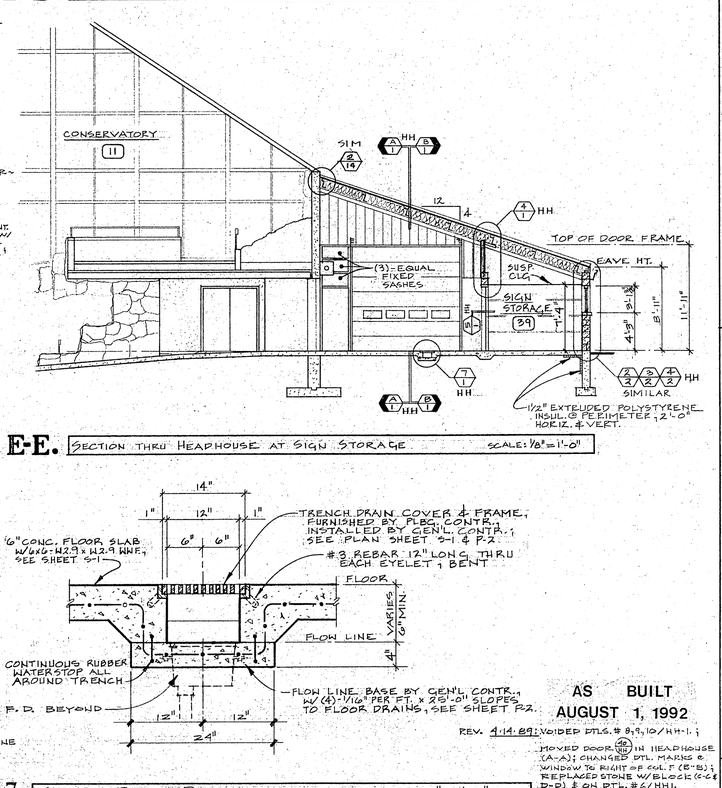
INTERIOR HM. DOOR DETAILS 1" = 1'-0"



6. GLAZING JAMB & HEADHOUSE 1½" = 1'-0"



SASH SECTIONS & STONE WALL (ROLLING) 1" = 1'-0"



E-E. SECTION THRU HEADHOUSE AT SIGN STORAGE SCALE: 1/8" = 1'-0"

7. TRENCH DRAIN DETAIL SCALE: 1" = 1'-0"

AS BUILT
AUGUST 1, 1992

REV. 4-14-89: VOIDED PTLS. # 8, 9, 10/HH-1;
MOVED DOOR (5A) IN HEADHOUSE (A-A); CHANGED DTL. MARKS @ WINDOW TO RIGHT OF COL. F (B-B); REPLACED STONE W/ BLOCK (C-C & D-D) & ON DTL. #6/HH1.

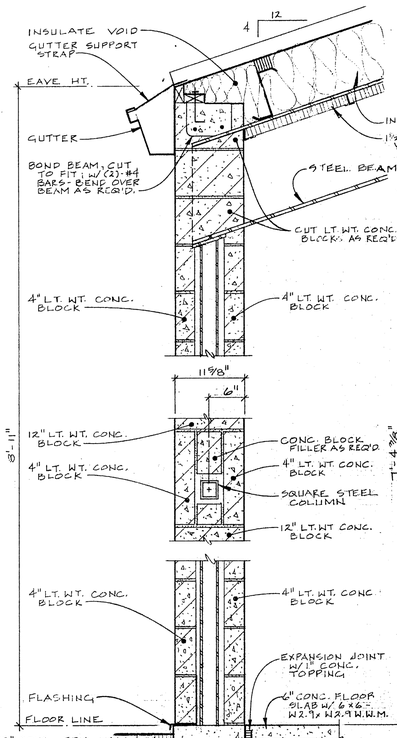
11-18-88

STUART WILLIAM GALLAGHER, ARCHITECT, INC.
7702 ROBERT BLACKHAWK AVENUE
MADISON, WISCONSIN

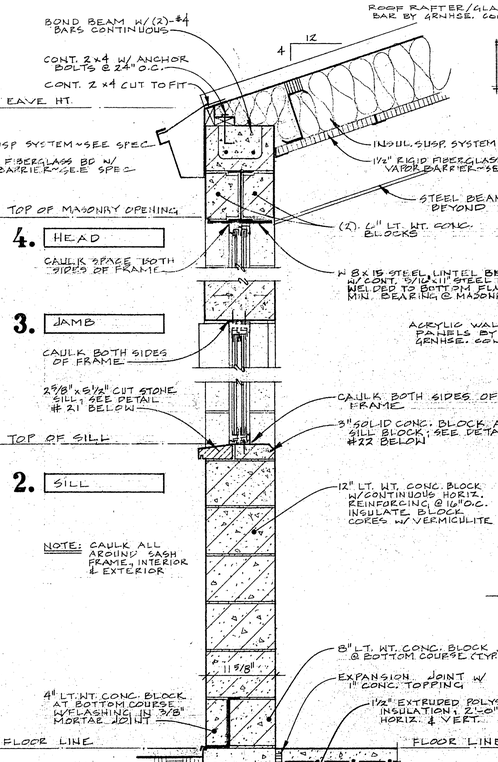
OLBRICH BOTANICAL COMPLEX
3330 ATWOOD AVENUE
MADISON, WISCONSIN

HEADHOUSE BUILDING SECTIONS & HEADHOUSE DETAILS.

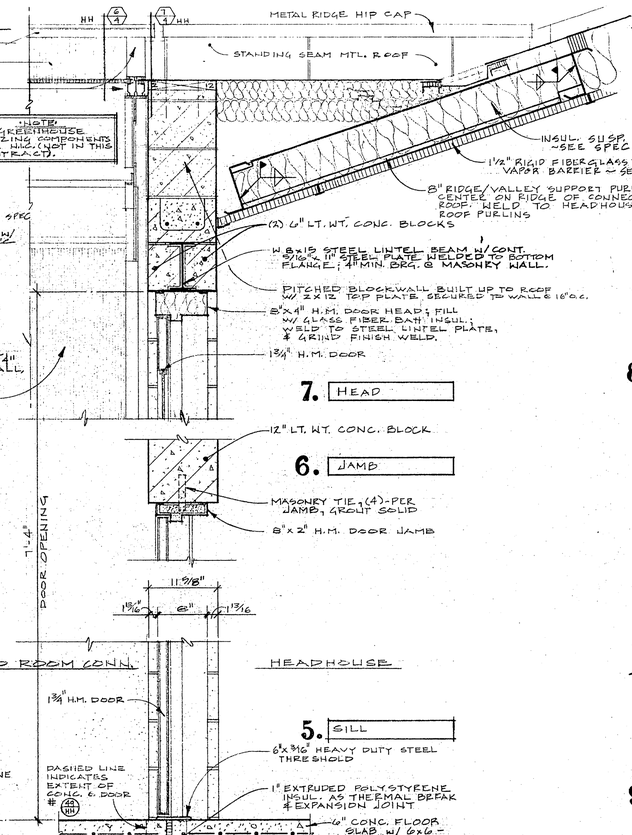
F



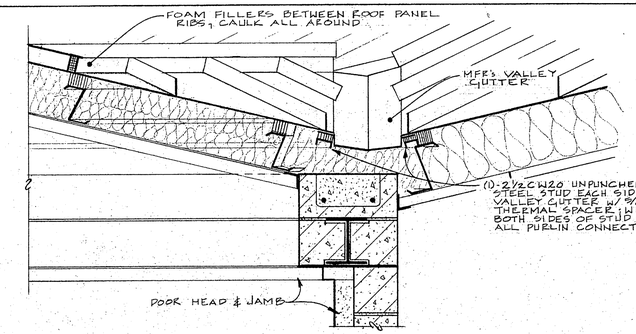
1. COLUMN SECTION @ BLOCK WALL 1"=1'-0"



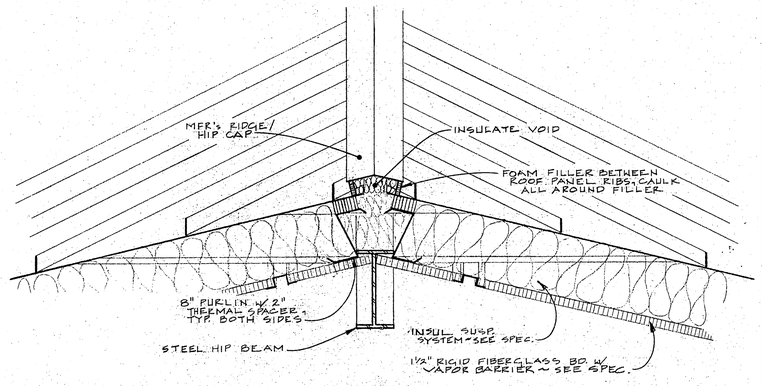
SASH SECTIONS (ROLLING) 1"=1'-0"



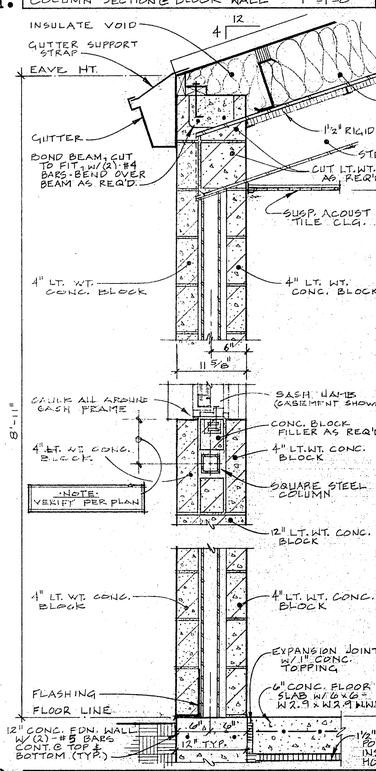
IMPACT DOOR SECTIONS 1"=1'-0"



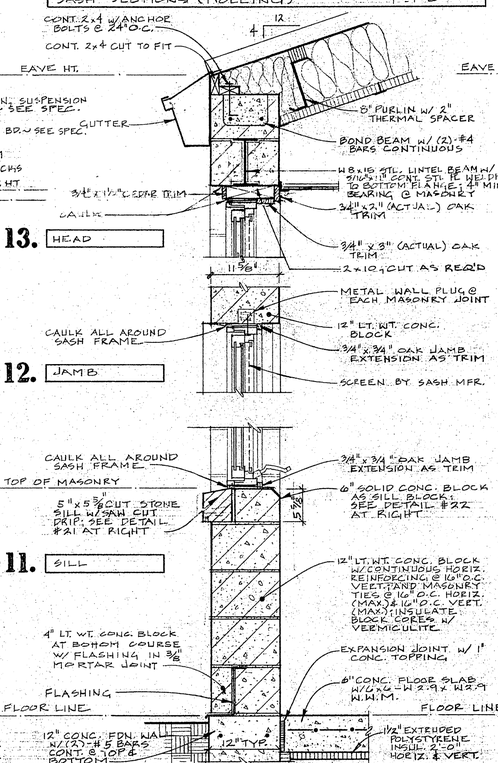
8. SECTION THRU VALLEY SCALE: 1"=1'-0"



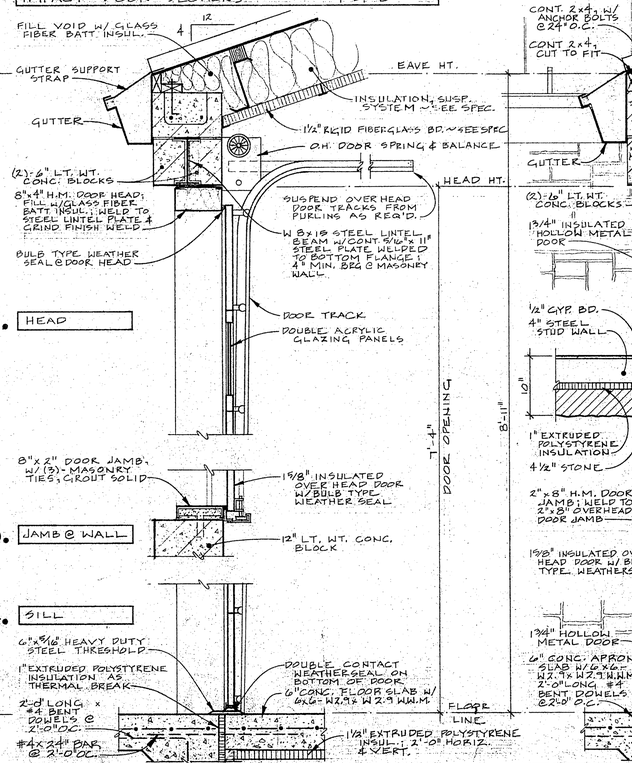
9. SECTION THRU HIP SCALE: 1"=1'-0"



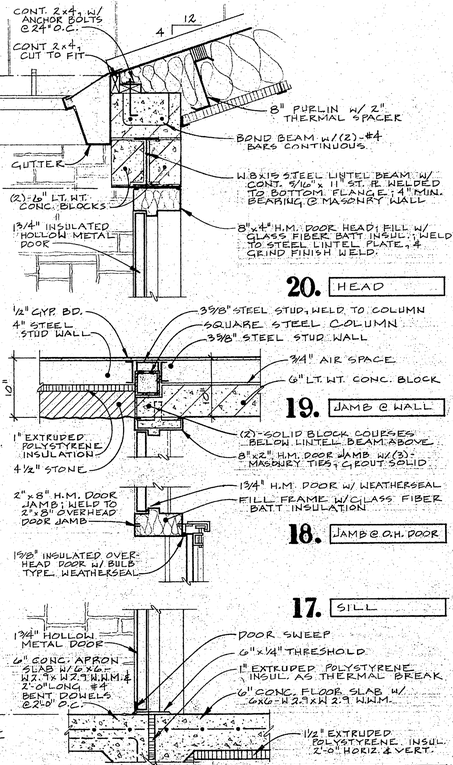
10. COLUMN SECTION @ COLS. 4-1 & B-1 (GIM.) 1"=1'-0"



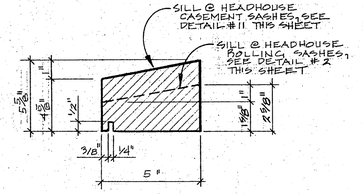
SASH SECTIONS (CASEMENT) 1"=1'-0"



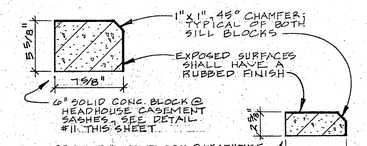
OVERHEAD DOOR SECTIONS 1"=1'-0"



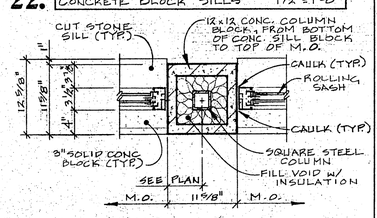
HOLLOW METAL DOOR SECTIONS 1"=1'-0"



21. CUT STONE SILL 3"=1'-0"



22. CONCRETE BLOCK SILLS 1½"=1'-0"



23. ROLLING SASH JAMB @ COL. 1"=1'-0"

AS BUILT
AUGUST 1, 1992
6-12-89: CHANGES MADE TO LINTEL BEAMS @ DETAILS #4, 7, 8, 13, 16, & 20.
REV. 1-14-89: REPLACED STONE ON DTLS. #11, 12, 13, 15/HH2. W/ CONC. BLOCK; CHANGED CUT STONE SILL DTL. # 21/HH2 ACCORDINGLY; REPLACED STONE ON DTL. #9/HH2. W/ CONC. BLOCK.
11-16-88

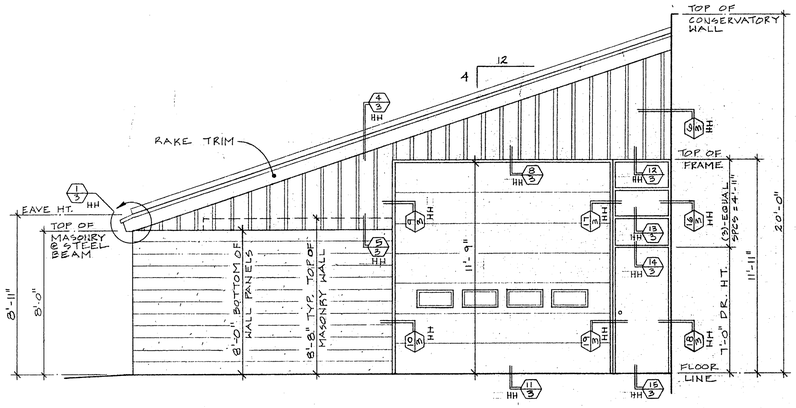
STUART WILLIAM GALLAHER, ARCHITECT, P.C.
702 NORTH BLACKHAWK AVENUE MADISON, WISCONSIN

BOTANICAL COMPLEX
MADISON, WISCONSIN

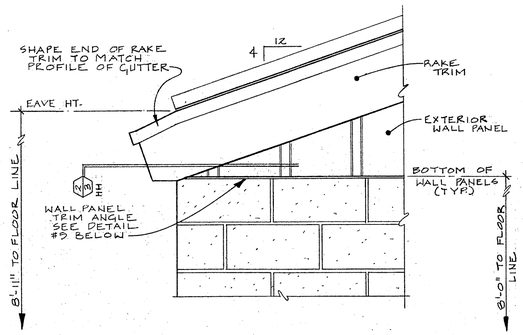
OLBRICH
2330 ATWOOD AVENUE

HEADHOUSE EXTERIOR WALL DETAILS & SECTIONS
VALLEY & HIP DETAILS • STONE & CONCRETE SILL DETAILS • IMPACT DOOR SECTIONS

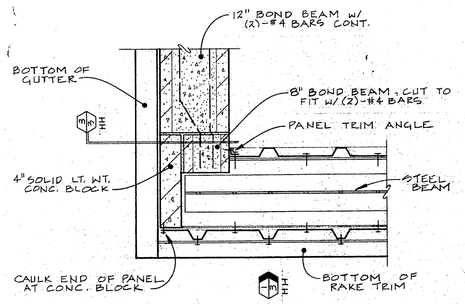
HH 2.



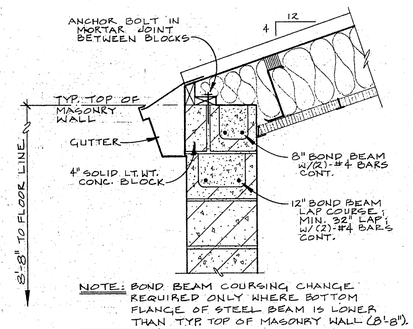
A. SOUTHWEST HEADHOUSE ENDWALL DETAIL KEY SCALE: 1/4"=1'-0"



1. ENLARGED CORNER - ELEVATION 1"=1'-0"

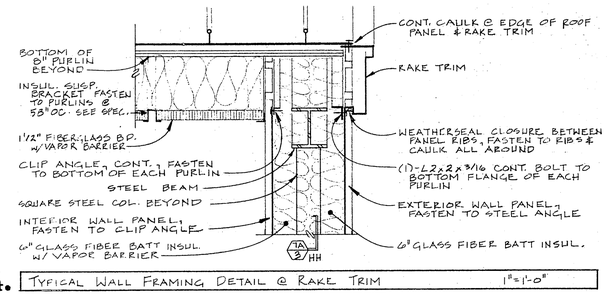


2. ENLARGED CORNER - PLAN VIEW 1"=1'-0"



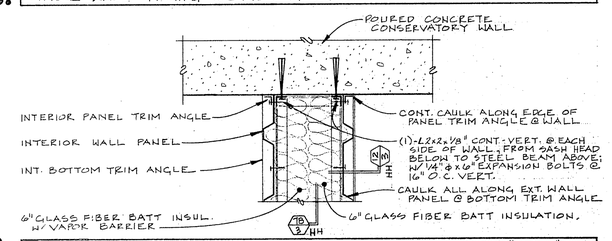
NOTE: BOND BEAM COURSING CHANGE REQUIRED ONLY WHERE BOTTOM FLANGE OF STEEL BEAM IS LOWER THAN TYP. TOP OF MASONRY WALL (8'-8").

3. BOND BEAM LAP DETAIL 1"=1'-0"

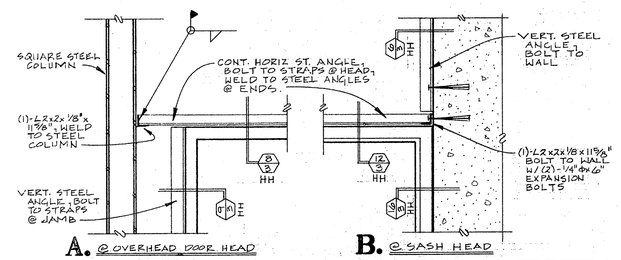


4. TYPICAL WALL FRAMING DETAIL @ RAKE TRIM 1"=1'-0"

5. TYPICAL WALL FRAMING DETAIL @ MASONRY 1"=1'-0"

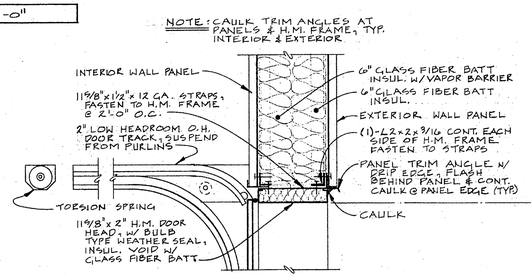


6. ENLARGED PLAN VIEW @ CONSERVATORY WALL 1"=1'-0"

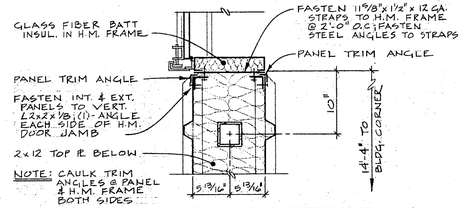


7. ELEVATION - STEEL ANGLE FRAMING @ OPENING 1"=1'-0"

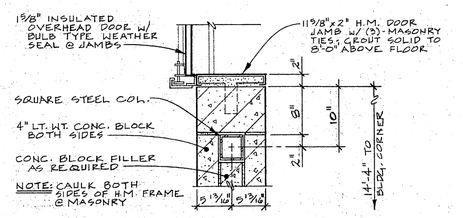
NOTE: CAULK TRIM ANGLES AT PANELS & H.M. FRAME, TYP. INTERIOR & EXTERIOR



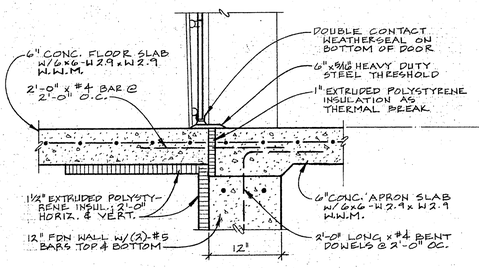
8. OVERHEAD DOOR HEAD @ STEEL FRAMING 1"=1'-0"



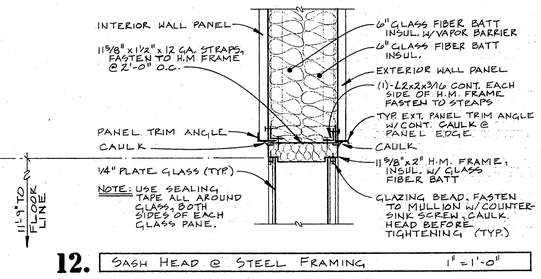
9. OVERHEAD DOOR JAMB @ STEEL FRAMING 1"=1'-0"



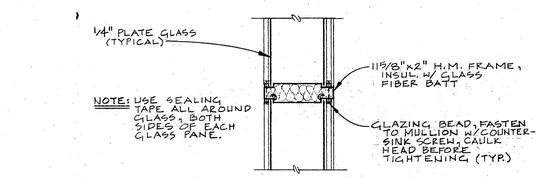
10. OVERHEAD DOOR JAMB @ MASONRY 1"=1'-0"



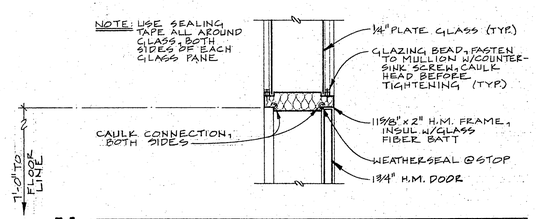
11. OVERHEAD DOOR SILL 1"=1'-0"



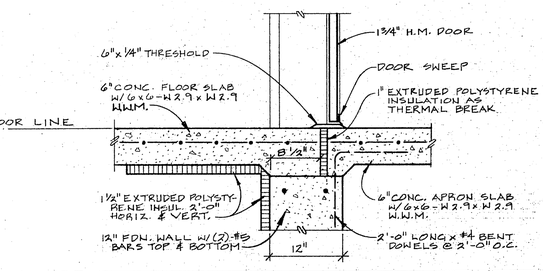
12. SASH HEAD @ STEEL FRAMING 1"=1'-0"



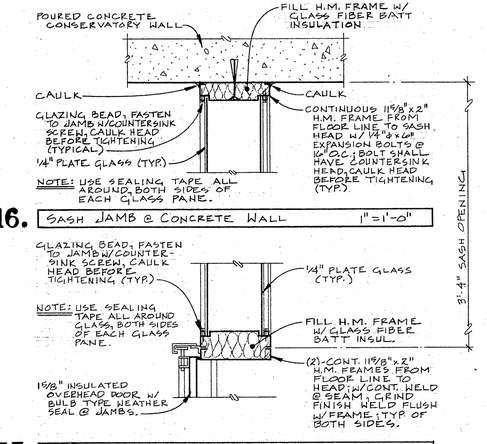
13. HORIZONTAL SASH / SASH MULLION 1"=1'-0"



14. HORIZONTAL SASH H.M. DOOR MULLION 1"=1'-0"



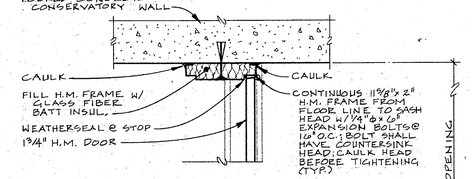
15. HOLLOW METAL DOOR SILL 1"=1'-0"



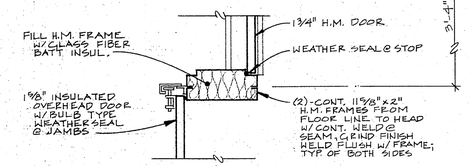
NOTE: USE SEALING TAPE ALL AROUND, BOTH SIDES OF EACH GLASS PANE.

16. SASH JAMB @ CONCRETE WALL 1"=1'-0"

17. SASH/OVERHEAD DOOR JAMB 1"=1'-0"



18. HOLLOW METAL DOOR JAMB 1"=1'-0"



19. HOLLOW METAL/OVERHEAD DOOR JAMB 1"=1'-0"

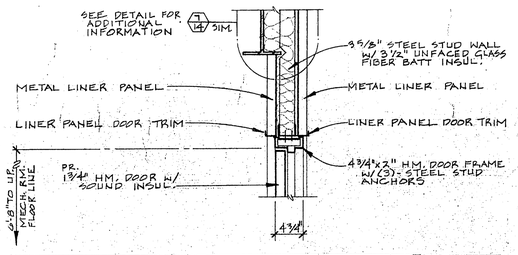
AS BUILT
AUGUST 1, 1992
11.18.92

STUART WILLIAM GAGGAMEIER, ARCHITECT, INC.
705 NORTH BLACKHAWK AVENUE • MADISON, WISCONSIN

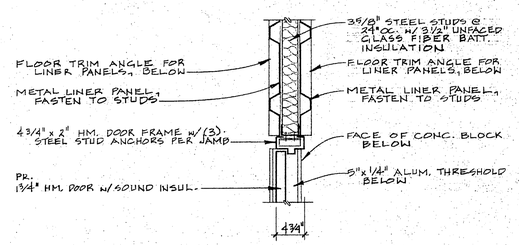
OLBRICH BOTANICAL COMPLEX
MADISON, WISCONSIN
3330 ATWOOD AVENUE

SOUTHWEST HEADHOUSE ENDWALL DETAIL KEY •
SOUTHWEST HEADHOUSE ENDWALL DETAILS.

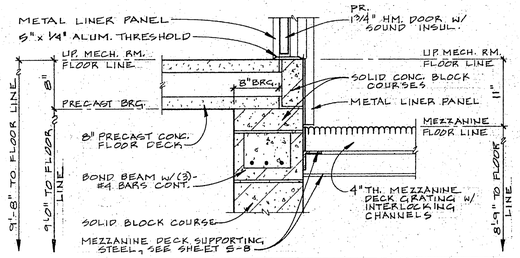
HH
3.



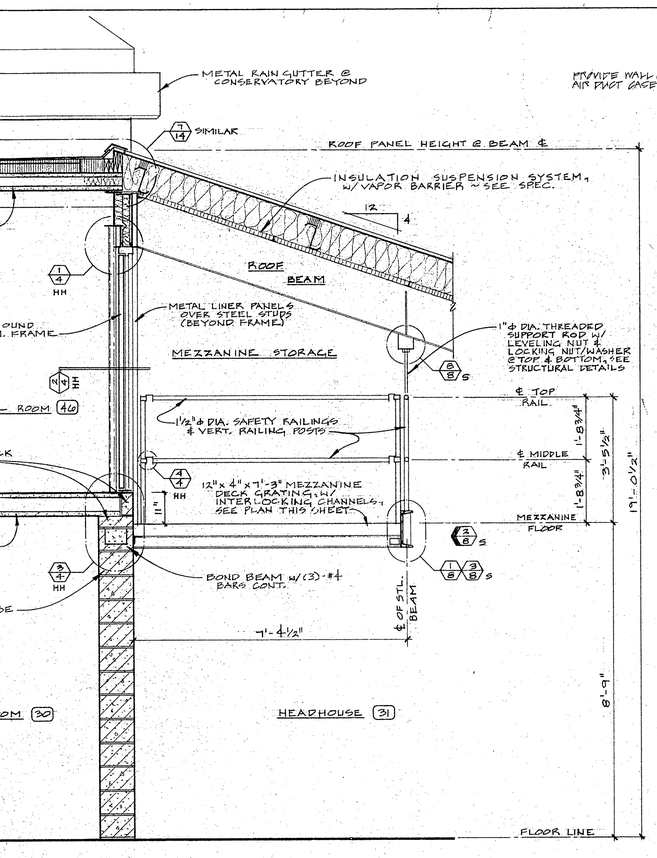
1. UPPER MECH. RM. – DOOR HEAD DETAIL 1" = 1'-0"



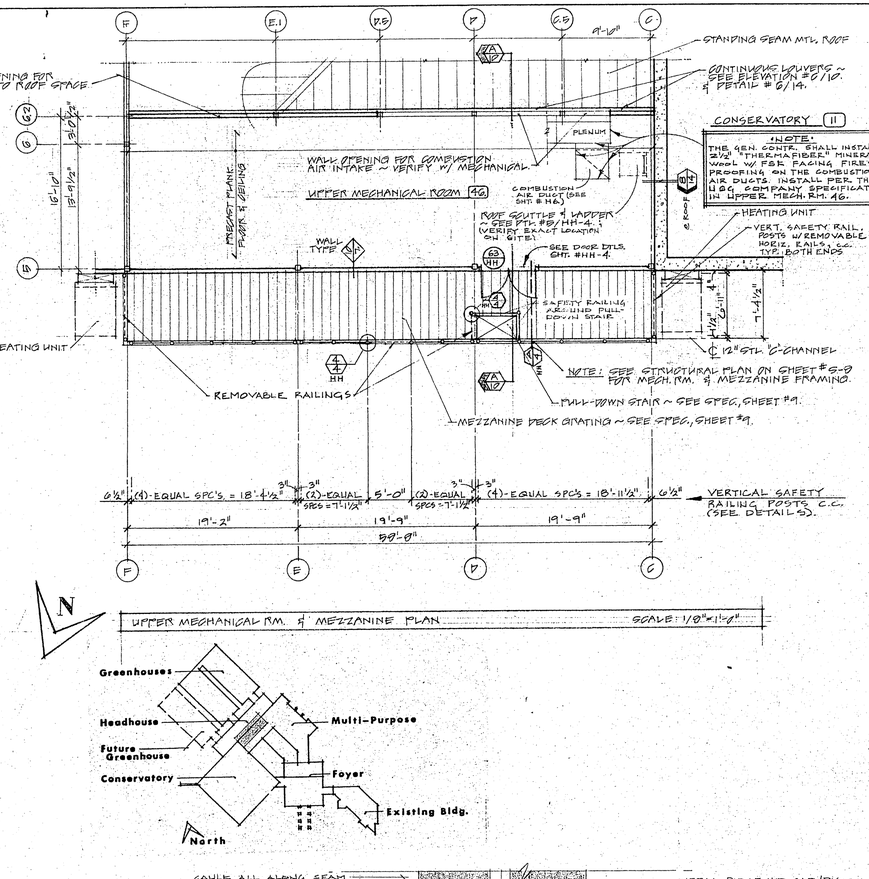
2. UPPER MECH. RM. – DOOR JAMB DETAIL 1" = 1'-0"



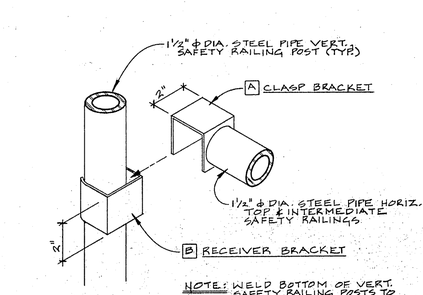
3. UPPER MECH. RM. – DOOR SILL DETAIL 1" = 1'-0"

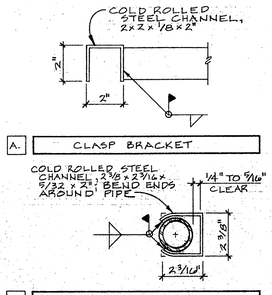


A. WALL SECTION ℄ MEZZANINE DETAIL SCALE: 1/2" = 1'-0"

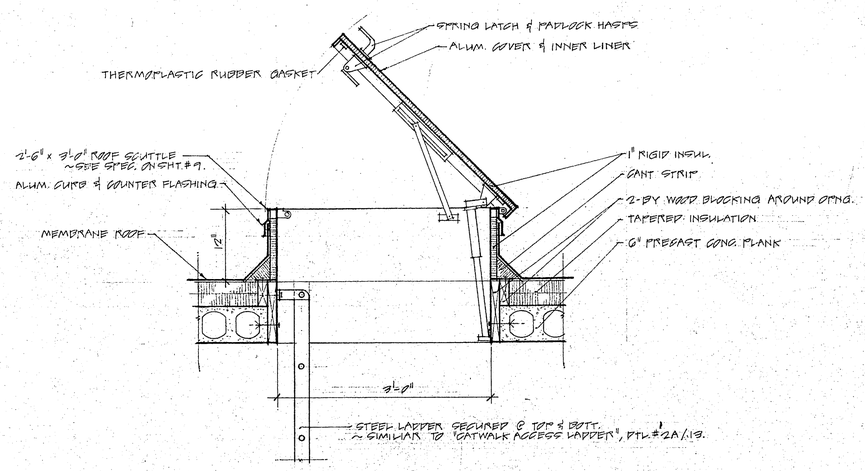


UPPER MECHANICAL RM. ℄ MEZZANINE PLAN SCALE: 1/8"=1'-0"

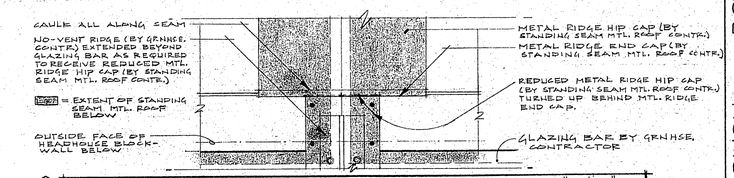




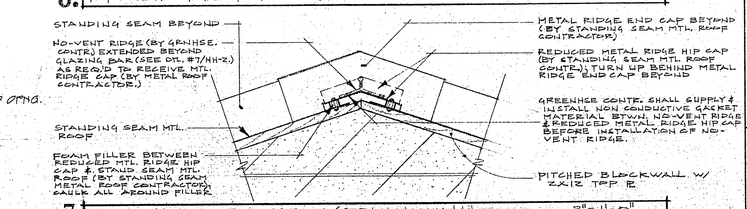
4. REMOVABLE SAFETY RAILING DETAILS SCALE: 3" = 1'-0"



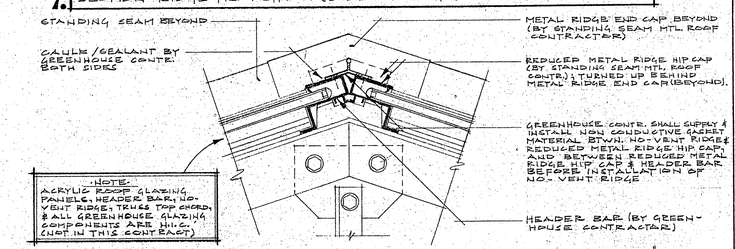
5. ROOF SCUTTLE DTL. 1" = 1'-0"



8. TOP VIEW OF RIDGE TRANSITION 3" = 1'-0"



7. SECTION - RIDGE TRANSITION (@ BLOCK WALL) 3" = 1'-0"



6. SECTION - RIDGE TRANSITION (@ PAD ROOM CONN. RIDGE) 3" = 1'-0"

RIDGE TRANSITION DTLS. @ PAD ROOM CONN. (H&S) ℄ HEADHOUSE

AS BUILT
AUGUST 1, 1992

REV. 4·14·89: REVISED UPPER MECH. RM. MEZZANINE PLAN; MOVED DOOR 63 HH ℄ CHANGED TO PBL. DOOR; MOVED ROOF SCUTTLE; ADDED COMBUSTION AIR DUCT ℄ 'NOTE' TO SAME PLAN.
11·18·88

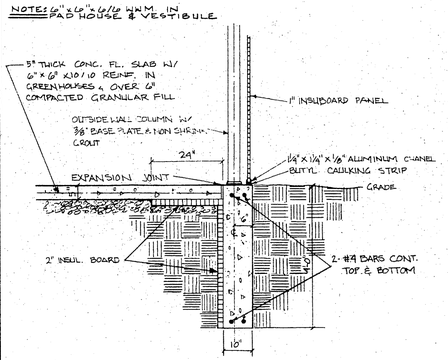
STUART WILLIAM GAILANEY, ARCHITECT, INC.
702 NORTH BLACKHAWK AVENUE • MADISON, WISCONSIN

OLBRICH BOTANICAL COMPLEX
MADISON, WISCONSIN

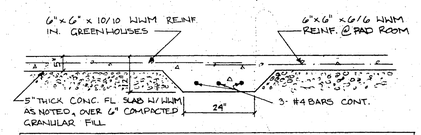
MEZZANINE FLOOR PLAN • MEZZANINE SECTION • DETAILS • ROOF SCUTTLE DTL. • RIDGE TRANSITION DTLS. & PAD ROOM CONN. (H&S) & HEADHOUSE • 3330 ATWOOD AVENUE

HH 4.

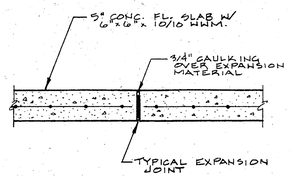
NOTE: 6"x6"x10/10 WWM IN PAD HOUSE & VESTIBULE



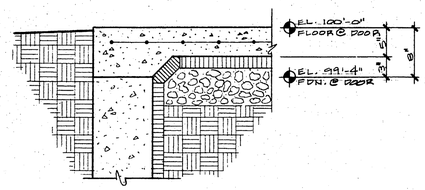
1. FOUNDATION WALL SECTION (TYPICAL) SCALE: ½"=1'-0"



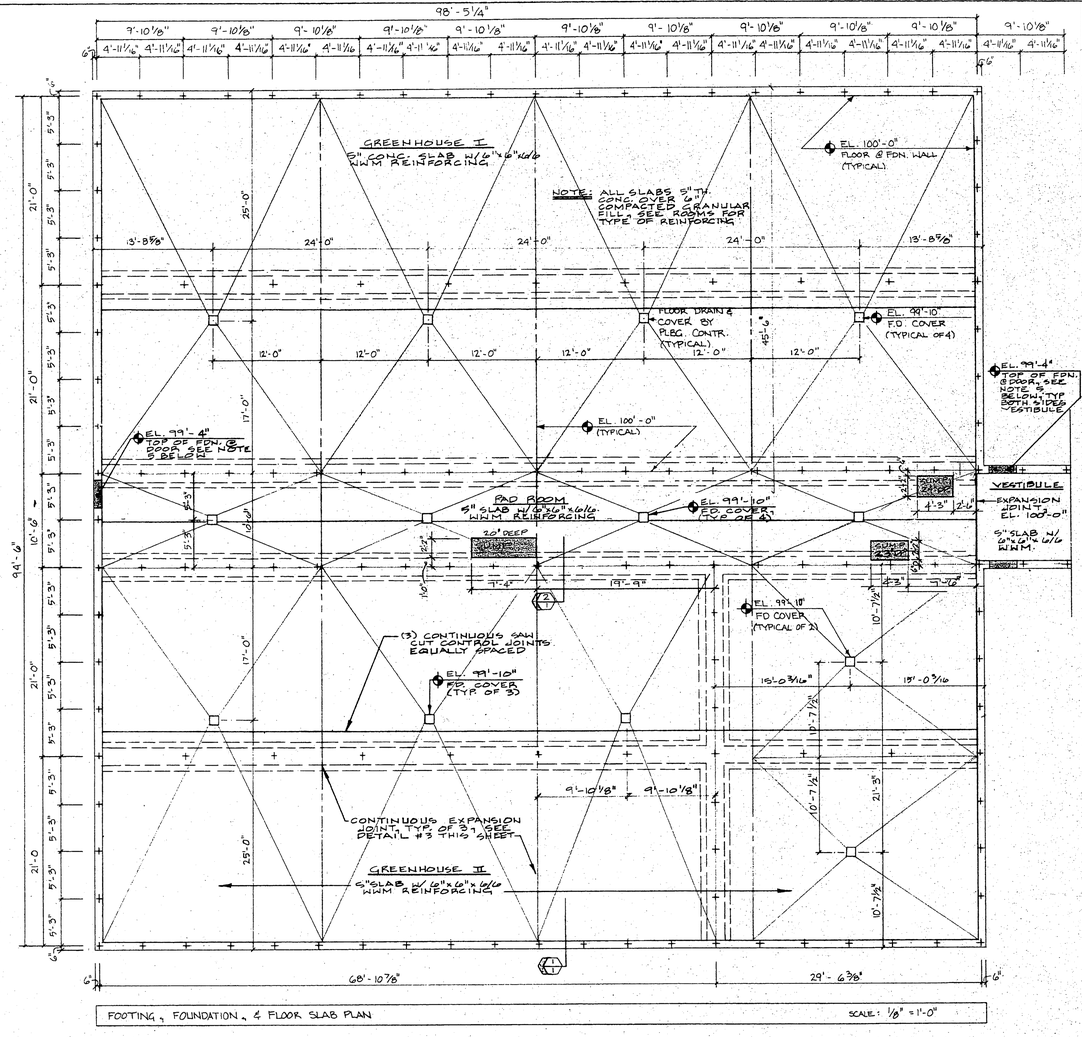
2. THICKENED SLAB FOOTING (TYPICAL) SCALE: ½"=1'-0"



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



4. FDN. DETAIL @ EXTERIOR DOORS 1"=1'-0"



FOOTING, FOUNDATION, & FLOOR SLAB PLAN SCALE: ⅛" =1'-0"

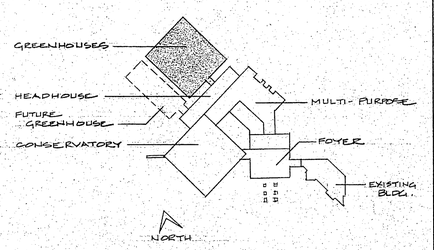
NOTES

1. VERIFY LOCATIONS & SIZES OF COOLING SUMPS W/ GREENHOUSE MANUFACTURER PRIOR TO CONCRETE FORMING.
2. EXPANSION & CONTROL JOINTS SHALL BE PLACED AS SHOWN ON PLAN.
3. DELETED
4. ALL BACKFILL SHALL BE PLACED & COMPACTED IN 12" LIFTS.
5. VERIFY DOOR LOCATION AND ROUGH OPENING SIZE W/ GREENHOUSE MFR. SEE DETAIL #4.

9-25-91: CHANGES MADE THRU OUT SHEET

9-19-91: ADD NOTES, DETAIL #3, EXP. & CTRL. JOINT LOCATIONS @ PLAN

8-22-91



THIS SHEET ORIGINALLY NUMBERED AS "1" FOR GREENHOUSE ADDITION

FOOTING, FOUNDATION & FLOOR SLAB PLAN, FOUNDATION WALL SECTION, THICKENED SLAB FOOTING

OLBRICH BOTANICAL COMPLEX
3330 ATWOOD AVE. MADISON, WISCONSIN

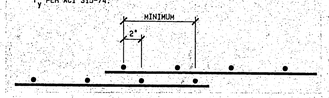
STUART WILLIAM GALLAHER, ARCHITECT, INC.
702 NORTH BLACKHAWK AVENUE • MADISON, WISCONSIN

AS BUILT
AUGUST 1, 1992

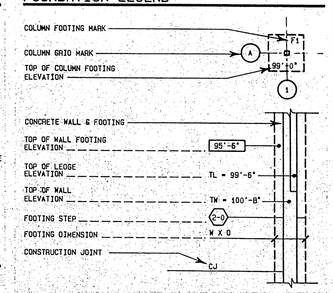
G-7.

REINFORCING NOTES

1. REINFORCING SHALL BE DETAILED IN ACCORDANCE WITH ACI 315-74.
2. ALL LAPS SHALL BE CLASS "C" UNLESS OTHERWISE NOTED ON THE DESIGN DRAWINGS OR UNLESS THE DETAILER TAKES SPECIAL CARE TO PROVIDE STAGGERED LAPS. USE TOP BAR LAP LENGTHS FOR ALL HORIZONTAL WALL BARS AND FOR TOP BARS IN SLABS AND BEAMS OVER 14" DEEP.
3. LAP LENGTH SHALL BE SPECIFICALLY NOTED ON PLACING DRAWINGS WHERE MORE THAN ONE BAR MAKES UP A CONTINUOUS STRING.
4. CORNER BARS WITH CLASS "C" LAPS SHALL BE PROVIDED AT ALL WALL CORNERS AND INTERSECTIONS PER ACI 315-74 FIGURE 2-9, EXCLUDING TOP CENTER DETAIL.
5. HORIZONTAL BARS, EXCEPT FOR CONTINUOUS STRINGS FROM ONE CORNER OR OPENING TO ANOTHER, SHALL BE DETAILED TO SHOW THE DISTANCE FROM AT LEAST ONE END OF THE BAR TO THE NEAREST BUILDING GRID LINE OR WALL.
6. WELDED WIRE FABRIC SHALL BE LAPPED AND/OR ANCHORED TO DEVELOP f_y PER ACI 315-74.



FOUNDATION LEGEND



DESIGN LIVE LOADS

ROOF - SNOW LOAD	30	PSF
WIND LOAD	20	PSF
STRUCTURAL WALKS	100	PSF
MECHANICAL EQUIPMENT FLOORS	75	PSF
LATERAL EARTH PRESSURE	55	PSF/FT

DESIGN STRESSES

CAST-IN-PLACE CONCRETE:		
FOOTINGS, WALLS, SLAB ON GRADE	f'_c = 3000	PSI
STRUCTURAL SLABS, BEAMS, STAIRS	f'_c = 4000	PSI
REINFORCING STEEL:		
ALL REBAR U.N.O.	f_y = 60	KSI
TIES, STIRRUPS	f_y = 40	
STRUCTURAL STEEL:		
GRADE A36 TYPICAL U.N.O.	f_y = 36	KSI
TUBE COLUMNS	f_y = 46	KSI
SOIL BEARING PRESSURE	q = 3	KSF

4" CONCRETE SLAB ON GRADE W/ 6x6-W1.4 x W1.4 W.W.F. ON GRANULAR FILL W/ 6 MIL VAPOR BARRIER T.O.S. EL = 100'-0"

6" CONCRETE SLAB ON GRADE W/ 6x6-W2.9 x W2.9 W.W.F. ON GRANULAR FILL W/ 6 MIL VAPOR BARRIER T.O.S. EL = 100'-0" (SLOPE TO DRAIN)

5" CONCRETE SLAB ON GRADE W/ 6x6-W2.9 x W2.9 W.W.F. ON GRANULAR FILL W/ 6 MIL VAPOR BARRIER T.O.S. EL = 100'-0"

CONSERVATORY FOUNDATION WALL & FOOTINGS SEE SHEET S3

(16'-0" X 10'-0" X 4" THICK TYPE 5X STYROFOAM BELOW COOLER)

(6" X 1½" X 4" BREAKER STRIP (TYP. OF FOUR SIDES))

(TRENCH DRAIN)

(FACE OF EXIST. BUILDING — EXIST. FOUNDATION)

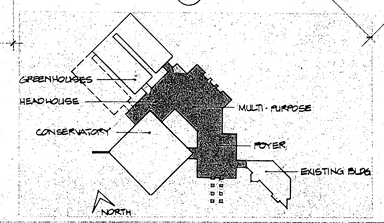
(5'W x 4'D BLOCK OUT IN SLAB SEE ARCH. 3/12)

(RECESS FLOOR SLAB AS REQ'D. SEE DETAIL #16 FF-4)

(CONG. CORNER)

(FACE OF GREENHOUSE (SEE SHT S2))

1 / S1 FOUNDATION PLAN - (MULTI-PURPOSE/FOYER)
1/8"=1'-0"



WISCONSIN
ORVILLE EDWARD ARNOLD E-7716 DUNN
REGISTERED PROFESSIONAL ENGINEER

Orville E. Arnold
SHTS S-1 THRU S-10
11/15/88

AS BUILT
AUGUST 1, 1992

6-19-89: ADD COLUMN & FOOTING @ F-6x6x2; FOOTING DESIGNATION CHANGES @ 5,6,11-6x2; F-7,8,9,9-7,10,9-11; F-13,14,11,12,20,21; ADD M-14; 11,20,21 DIMS & MF. EXIT CORR.
4-14-89: ADDED OR CHANGED DIMENSION, COLUMN #'s, ELEVATIONS THROUGH-OUT THIS SHEET
11-18-88

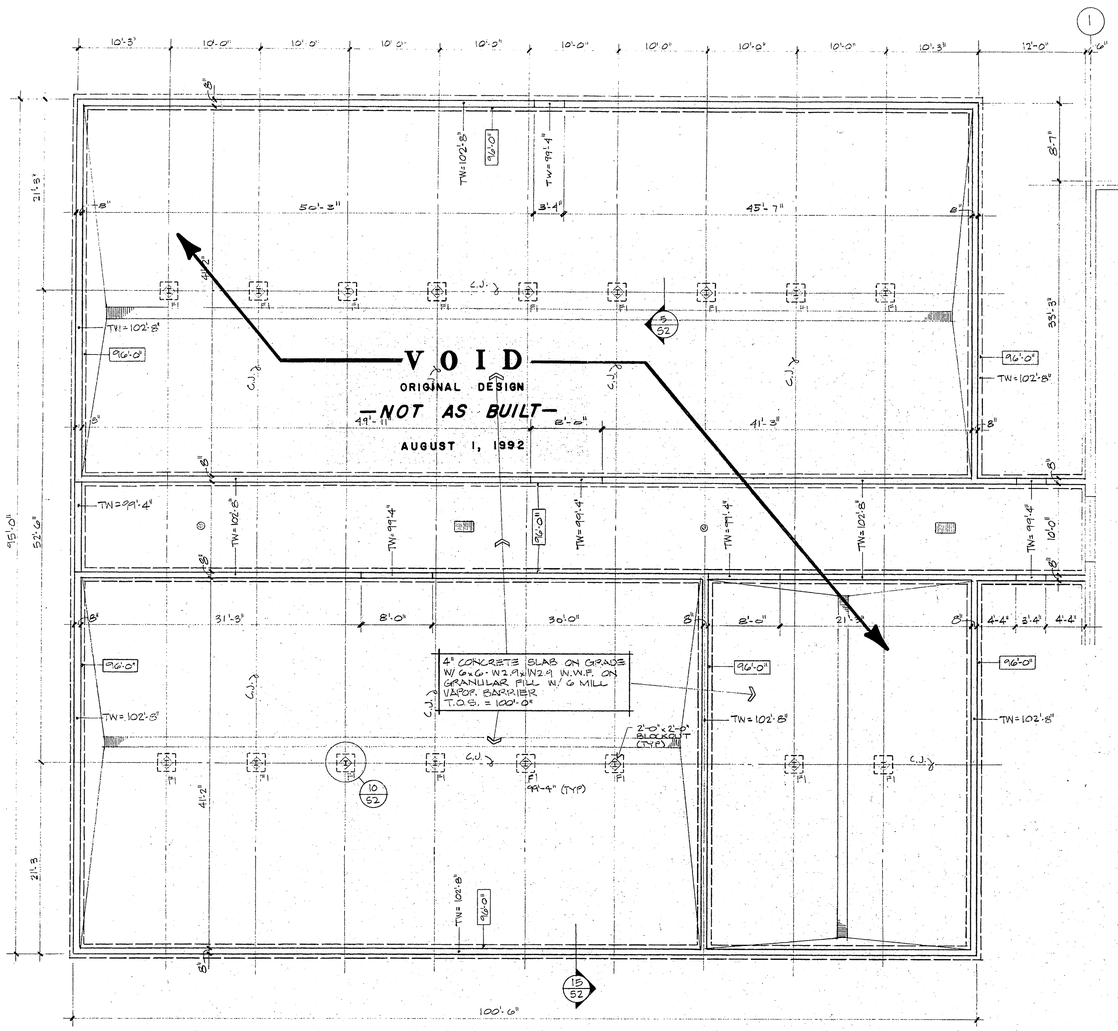
ARNOLD & O'SHERIDAN, INC.
CONSULTING ENGINEERS
616 FORWARD DRIVE · MADISON, WISCONSIN 53711
608-271-3551

JOB NO. 8748.5

STUART WILLIAM GALLAHER, ARCHITECT, INC.
702 NORTH BLACKHAWK AVENUE • MADISON, WISCONSIN

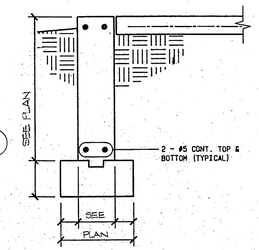
BOTANICAL COMPLEX
OLBRICH
FOUNDATION PLAN • MAIN BUILDING

S1

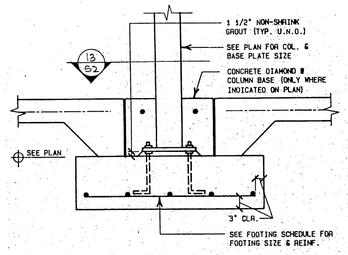


1 / S2 FOUNDATION PLAN - (GREENHOUSES)
1/8" = 1'-0"

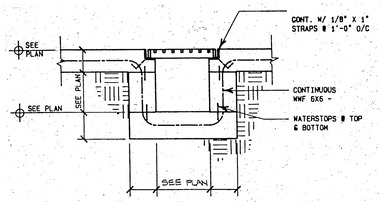
NOTE: SEE SHEET G-7 FOR GREENHOUSE FOOTING & FOUNDATION PLAN AS-BUILTS.



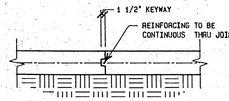
2 / S2 TYP PERIMETER FOUNDATION WALL



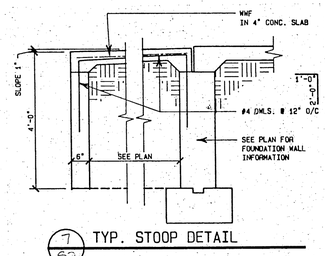
3 / S2 TYPICAL INTERIOR COLUMN FOOTING



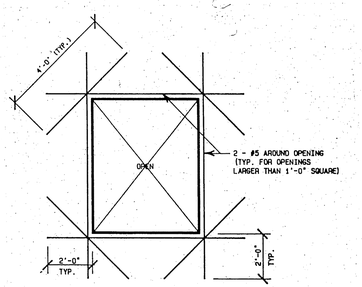
4 / S2 TRENCH DRAIN DETAIL



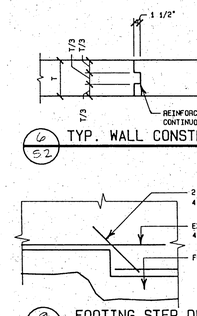
5 / S2 TYP. SLAB CONSTR. JT.



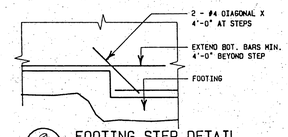
7 / S2 TYP. STOOP DETAIL



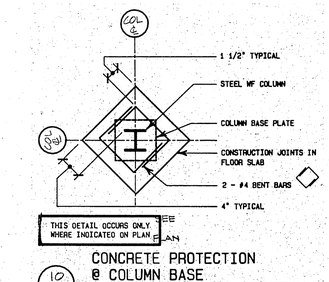
8 / S2 ADDED REINFORCING @ RECTANGULAR OPENINGS



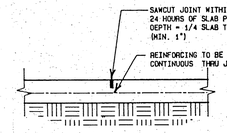
6 / S2 TYP. WALL CONSTR. JT.



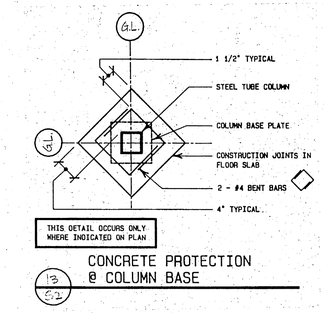
9 / S2 FOOTING STEP DETAIL



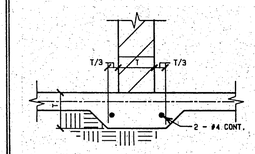
CONCRETE PROTECTION @ COLUMN BASE
10 / S2



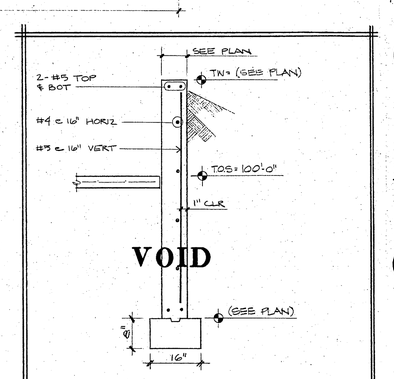
11 / S2 TYP. SLAB CONTROL JT.



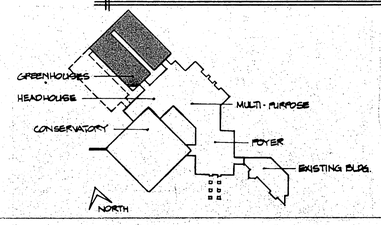
CONCRETE PROTECTION @ COLUMN BASE
13 / S2



14 / S2 TYP. THICKENED SLAB



15 / S2 TYP. FOUNDATION WALL - GREENHOUSE
1/2" = 1'-0"



12 / S2 ADDED REINF. @ ROUND OPENINGS

FOOTING SCHEDULE		
FOOTING MARK	FOOTING DIMENSIONS	FOOTING REINFORCING
F1	2'-0" x 2'-0" x 0'-8"	——
F2	3'-0" x 3'-0" x 1'-0"	3 # 5 BARS E.W.
F3	4'-0" x 4'-0" x 1'-0"	4 # 5 BARS E.W.
F4	4'-6" x 4'-6" x 1'-0"	4 # 5 BARS E.W.
F5		
F6		

BASE PLATE SCHEDULE			
TYPE	SIZE	A.B. A325	NOTE
A	9 x 9 x 5/8	4 - 3/4 ø	
B	8 x 3/8 x 0'-10"	"	
C	12 x 12 x 1	"	
D	10 x 10 x 3/4	"	
E	5 x 5/8 x 0'-10"	"	
F	5 x 5/8 x 0'-7 1/2 x 0'-7 1/2	"	SEE 4/S9
G	13 x 1 x 1'-4"	4 - 1 1/8" ø	SEE 4/S9
H	12 x 1 x 1'-4"	4 - 1 1/8" ø	SEE 4/S9
I	12 x 7/8 x 1'-4"	4 - 3/4" ø	SEE 4/S9

AS BUILT
AUGUST 1, 1992

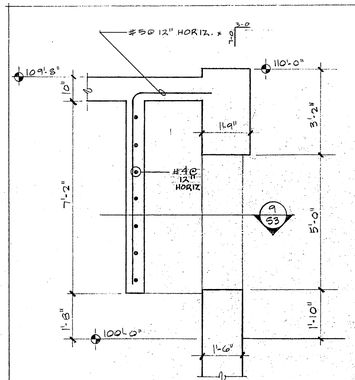
REV. 4-14-89: BLOCKED OUT NE WALL IN GREENHOUSE FOR 3'-4" DOOR M.O. & DIMENSIONED; CHANGED INTERIOR DOOR M.O.'S & DIM. STRING; ADDED FOOTING DIMS. TO DTL. #15/S2.
11-18-88

ARNOLD & O'SHERIDAN, INC.
CONSULTING ENGINEERS
215 FORWARD DRIVE · MADISON, WISCONSIN 53711
608-271-9681
JOB NO. 874185

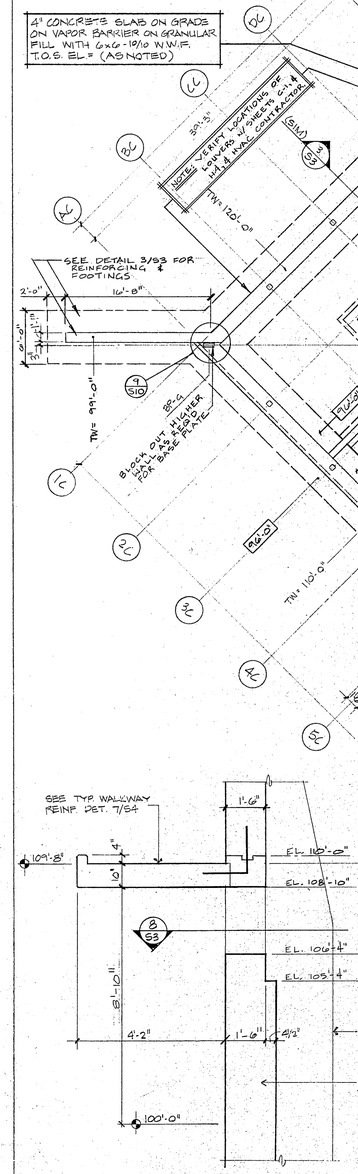
STUART WILLIAM GALLAHER, ARCHITECT, INC.
702 NORTH BLACKHAWK AVENUE • MADISON, WISCONSIN

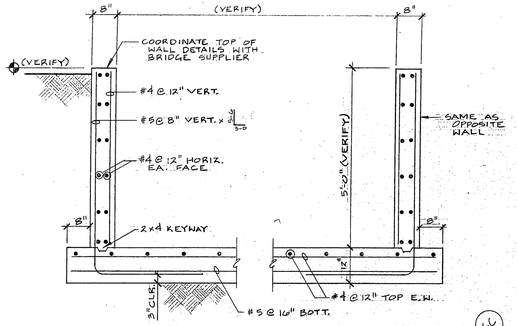
OLBRICH BOTANICAL COMPLEX
FOUNDATION PLAN • GREENHOUSE AND DETAILS

S2

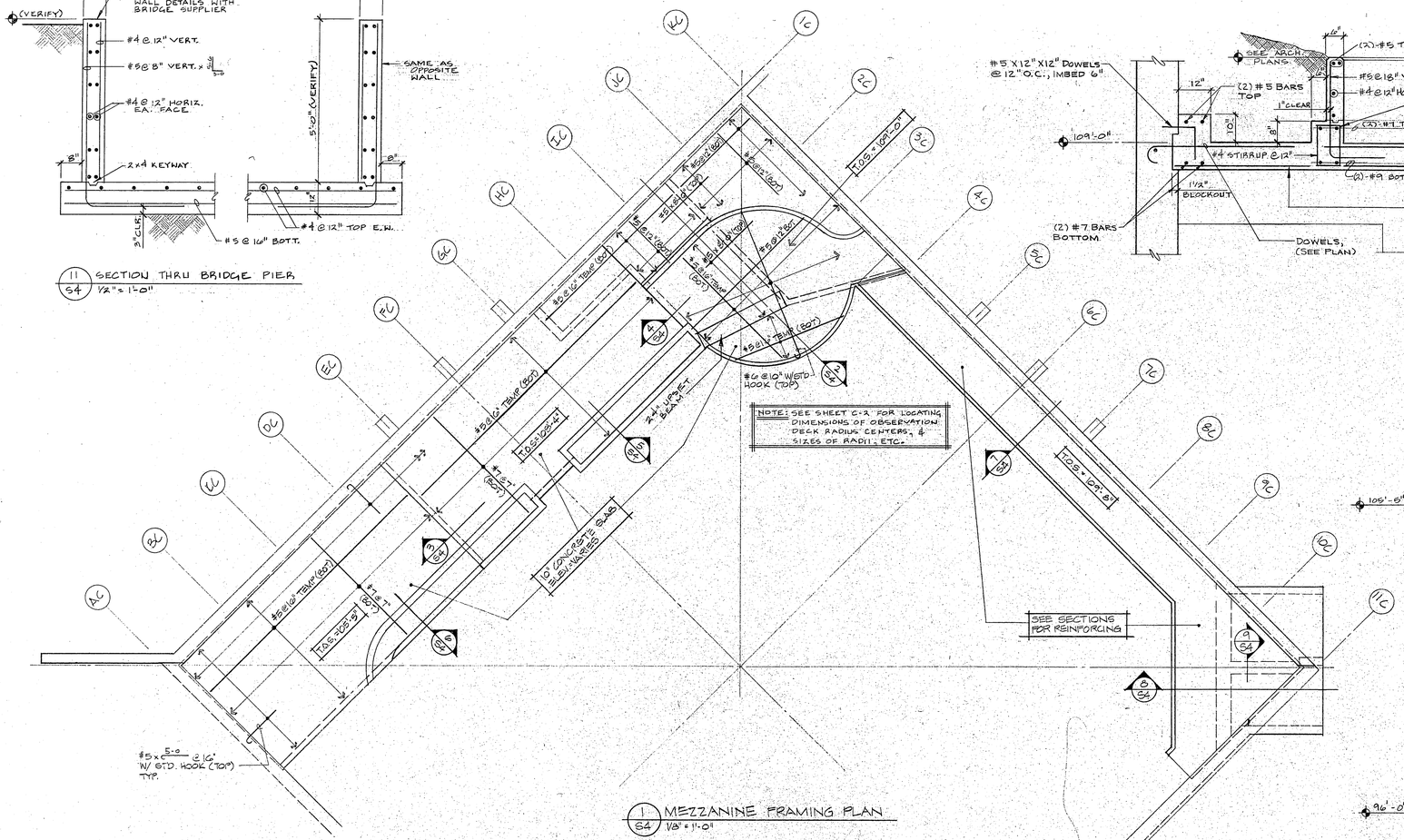


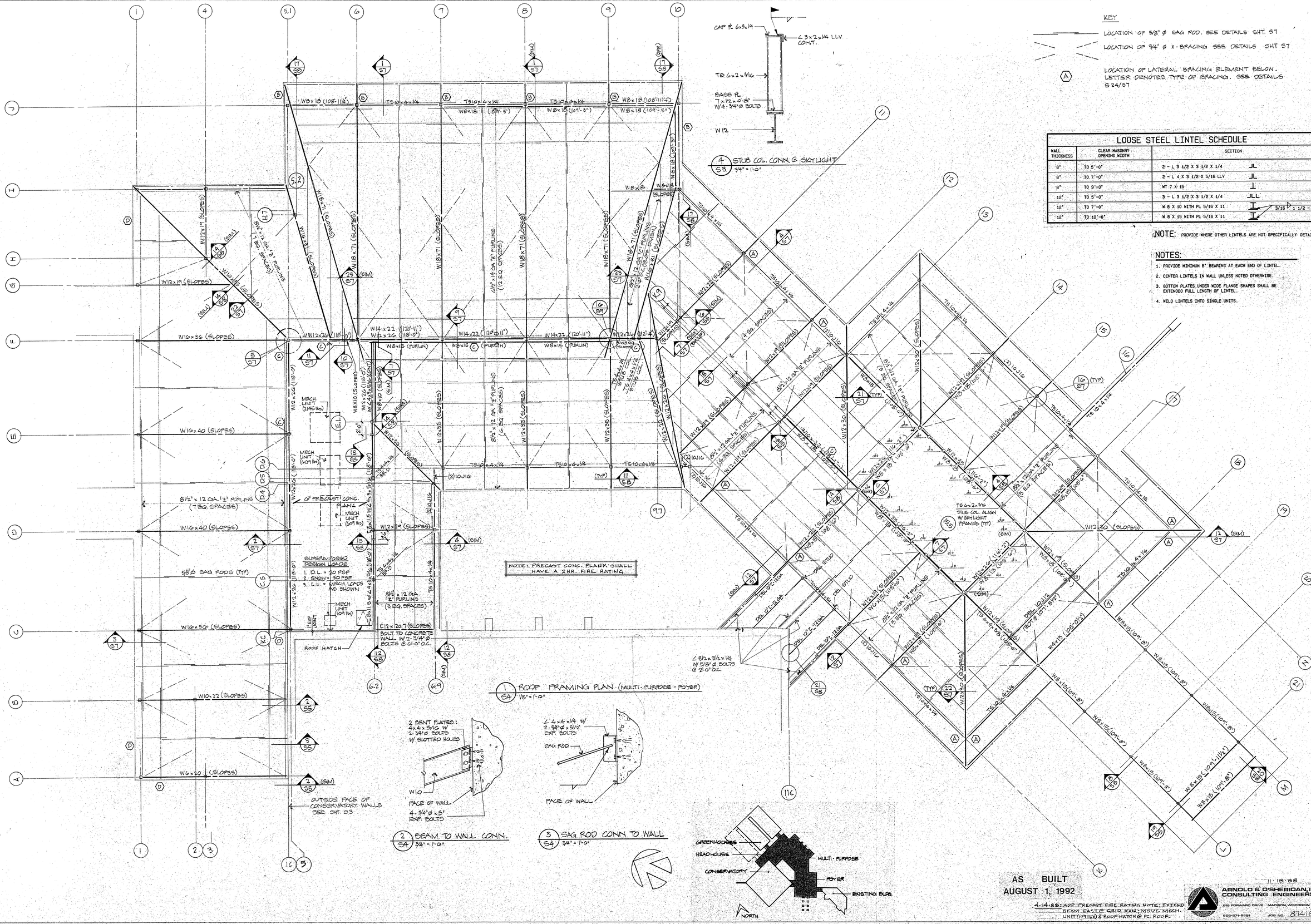
10/S3 SECT. THRU AIR INTAKE @ ENT.
3/8"=1'-0"

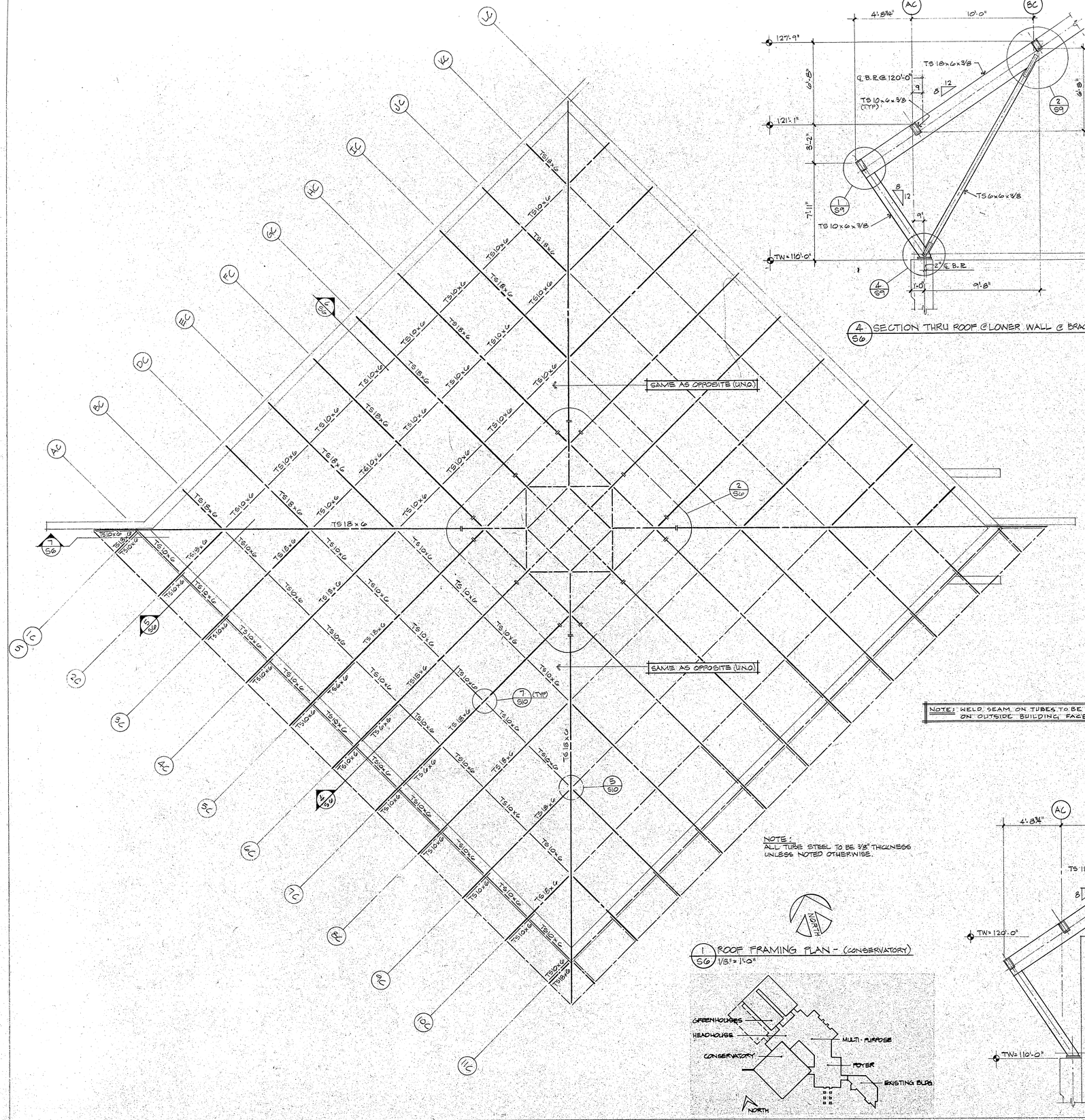

NOTE: VERIFY LOCATIONS OF LOWERED WALKWAYS WITH CIVIL & MECHANICAL CONTRACTORS
(SIM.)
CONC. BM. ABOVE (SEE 3/S4)
FIN. F.R. EL=90'-0"
TW= VERIFY ELEV. & COORDINATE TOP OF WALL DETAILS W/ BRIDGE SUPPLIER
TW= 99'-6"
TW= 99'-4"
TW= 120'-0"
TW= 107'-6"
TW= 104'-7"
TW= 101'-0"
TW= 100'-0"
TW= 104'-4"
TW= 104'-0"
TW= 110'-10"
TP= 116'-0"
TP= 114'-0"
TP= 104'-0"
TP= 102'-0"
TL= 108'-2"
TL= 105'-4"
TL= 102'-0"
FIN. FLR. EL= 100'-0"
BP-G
BP-H
TYP @ LOWER WALL (UNO)
NOTE: BRACE ALL CONSERVATORY WALLS UNTIL ALL CONCRETE WORK & SOIL PLACEMENT IS COMPLETED
NOTE: SIZE & REINFORCE PLANTING RETAINING WALLS @ BRICK WALKWAYS 16" OR HIGHER, AS PER DETAIL 15/S2.1. TOP OF FOOTING SHALL BE 4'-0" BELOW WALK. SEE SHEETS C-1 & C-2 FOR WALL LOCATIONS.
BLOCK OUT FOR DOORS (SEE ARCH) SEE DET 8/S2 FOR ADDED REINF.
BP-G TYP @ UPPER WALL (UNO)
4-#4 x 8'-0" #3 TIES @ 12" O.C. (SEE ELEV.)
#4 x 3'-0" @ 12" O.C. STAGGERED
#5 x 4'-0" @ 12" O.C. STAGGERED
#5 x 3'-0" @ 12" O.C. STAGGERED
#5 x 2'-0" @ 12" O.C. STAGGERED
#5 x 1'-0" @ 12" O.C. STAGGERED
#5 DOWELS @ 12" O.C.
#5 DOWELS @ 24" O.C.
#5 DOWELS @ 12" O.C. ALT.
#5 DOWELS @ 24" O.C. ALT

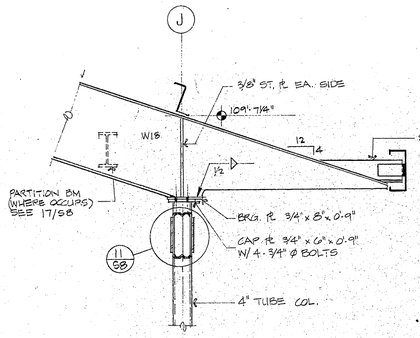


11/S4 SECTION THRU BRIDGE PIER
1/2" = 1'-0"

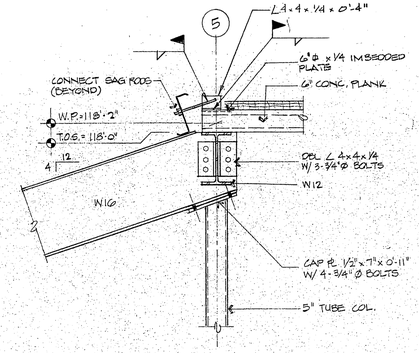

#5 @ 16" TRAP (BOT)
T.O.S. = 108'-8"
#5 @ 16" TRAP (BOT)
T.O.S. = 108'-8"
#5 @ 16" TRAP (BOT)
T.O.S. = 108'-8"
#5 @ 16" TRAP (BOT)
T.O.S. = 108'-8"
#5 @ 16" TRAP (BOT)
#5 @ 16" TRAP (BOT)
#5 @ 16" TRAP (BOT)


W8x18 (108'-11½")
TS10x4x¼
W8x18 (109'-3")
W8x18 (109'-5")
W8x18 (108'-11½")
W8x18 (GLOPES)
W18x71 (GLOPES)
W12x19 (GLOPES)
W10x49 (GLOPES)
W16x36 (GLOPES)
W12x26 (118'-0")
W14x22 (120'-11")
W14x22 (120'-11")
W12x26 (118'-0")
W12x14 (118'-4")
W8x15 (PURLIN)
W8x15 (PURLIN)
W8x15 (PURLIN)
W8x10 (GLOPES)
W12x26 (118'-0")
W12x35 (GLOPES)
W12x35 (GLOPES)
W12x35 (GLOPES)
W16x40 (GLOPES)
W12x20 (118'-0")
W16x40 (GLOPES)
W10x22 (GLOPES)
W6x20 (GLOPES)
W12x30 (GLOPES)
W12x19 (GLOPES)
W12x19 (GLOPES)
W12x30 (GLOPES)
W12x30 (GLOPES)
W12x19 (GLOPES)
W12x19 (GLOPES)
W12x30 (GLOPES)
W12x30 (GLOPES)
W12x19 (GLOPES)
W12x19 (GLOPES)
W12x30 (GLOPES)
W8x18 (108'-11½")
W8x18 (108'-11½")
W8x15 (108'-8")
W8x15 (108'-8")
W8x15 (108'-8

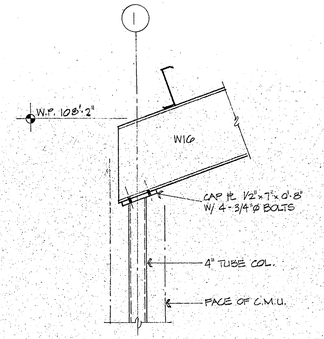

SAME AS OPPOSITE (U.N.O.)
SAME AS OPPOSITE (U.N.O.)
TS 18x6
TS 10x6
TS 18x6
TS 10x6
TS 18x6
TS 10x6



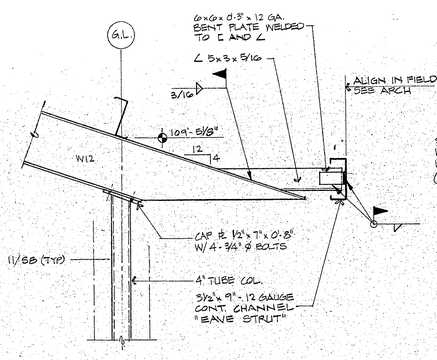
1/S7 BM. CONN. DETAIL @ OVERHANG
3/4" = 1'-0"



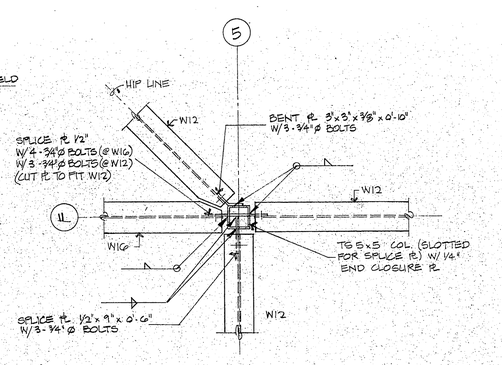
2/S7 BM. CONN. @ MECHANICAL RM. CLG.
3/4" = 1'-0"



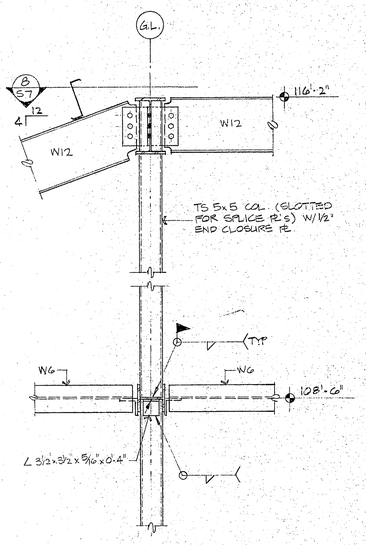
3/S7 BM. CONN. DET. @ HEADHOUSE
3/4" = 1'-0"



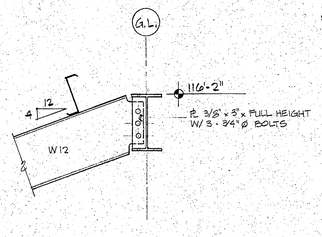
4/S7 BM. CONN. DETAIL @ OVERHANG (TYP)
3/4" = 1'-0"



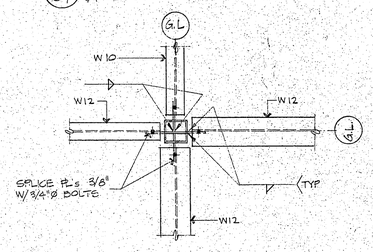
5/S7 PLAN - BEAM TO COLUMN CONN.
3/4" = 1'-0"



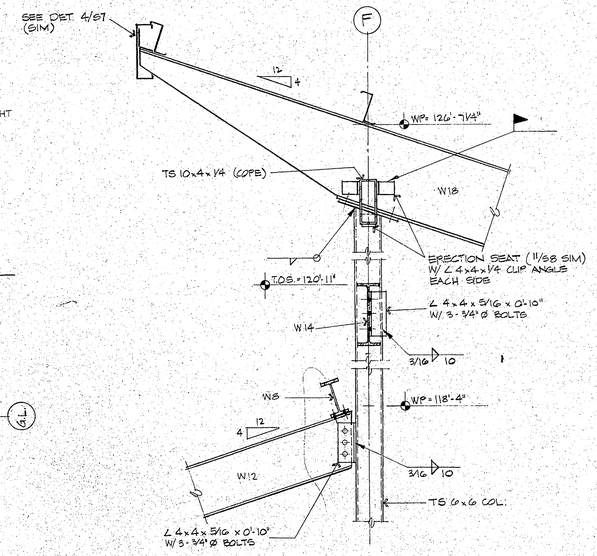
6/S7 BM. AND COL. CONN. @ SKYLIGHT
3/4" = 1'-0"



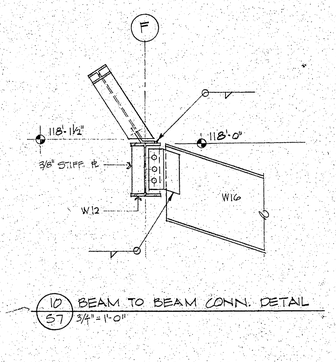
7/S7 BEAM TO BEAM CONN. @ SKYLIGHT
3/4" = 1'-0"



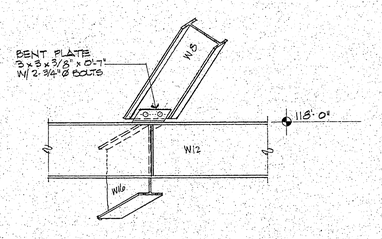
8/S7 PLAN - BEAM TO COLUMN CONN. @ SKYLIGHT
3/4" = 1'-0"



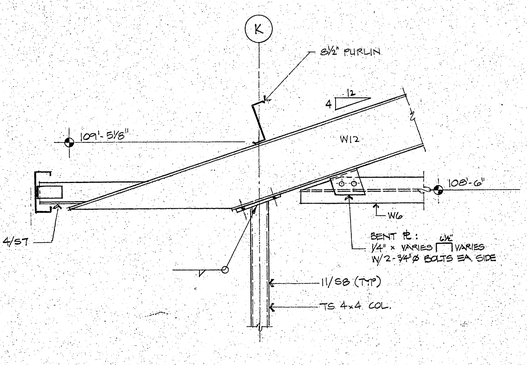
9/S7 BEAM AND COLUMN CONN. @ CLERESTORY
3/4" = 1'-0"



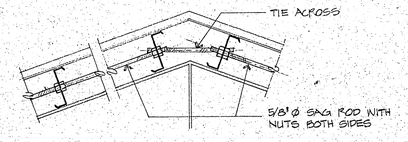
10/S7 BEAM TO BEAM CONN. DETAIL

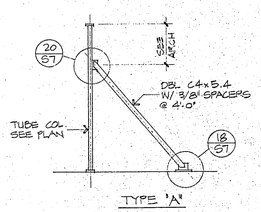


11/S7 BEAM TO BEAM CONN. DETAIL
3/4" = 1'-0"

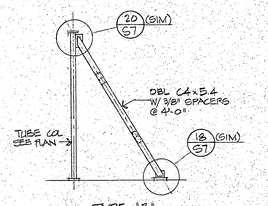


12/S7 BEAM CONN. DET. @ VESTIBULE (9)
3/4" = 1'-0"

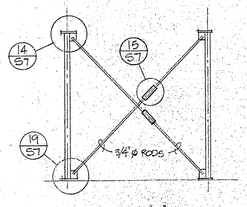




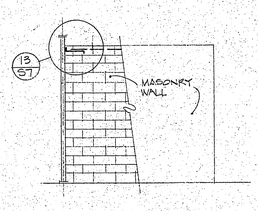
TYPE 'A'



TYPE 'B'

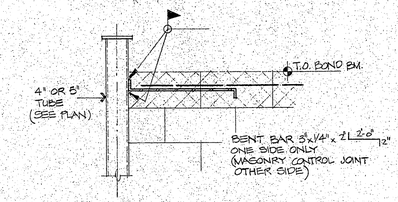


TYPE 'C'

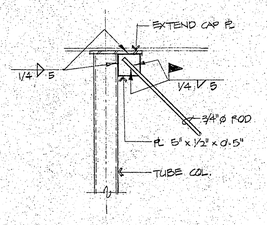


TYPE 'D'

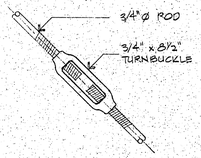
24/S7 TYPICAL LATERAL BRACING TYPES
NTS.



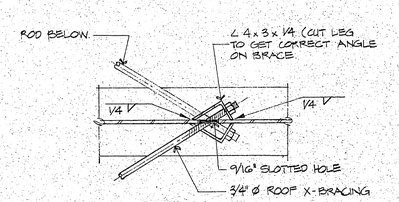
13/S7 BRACE CONN. DETAIL
3/4" = 1'-0"



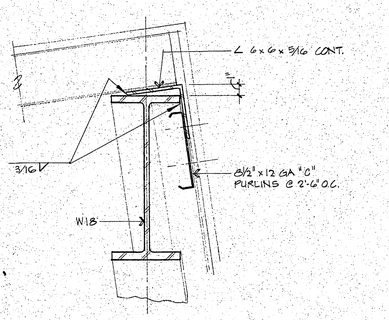
14/S7 X-BRACING CONN. DETAIL
3/4" = 1'-0"



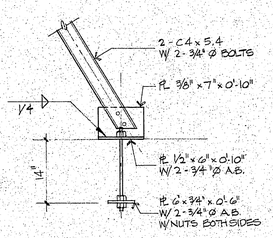
15/S7 TURNBUCKLE DETAIL
NTS.



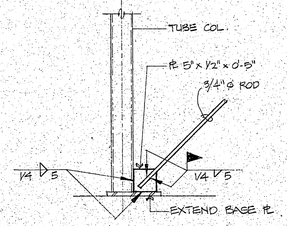
16/S7 ROOF X-BRACING - PLAN
1 1/2" = 1'-0"



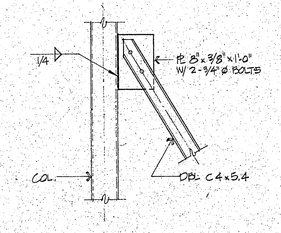
17/S7 SAG ROD DETAIL
3/4" = 1'-0"



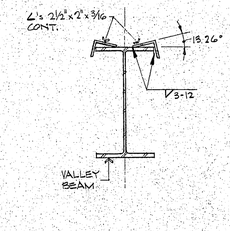
18/S7 BRACE CONN. DETAIL
3/4" = 1'-0"



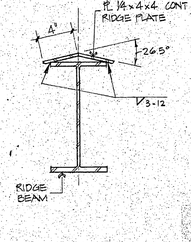
19/S7 X-BRACING CONN. DETAIL
3/4" = 1'-0"



20/S7 BRACE CONN. DETAIL
3/4" = 1'-0"



21/S7 VALLEY PLATE DETAIL
1 1/2" = 1'-0"



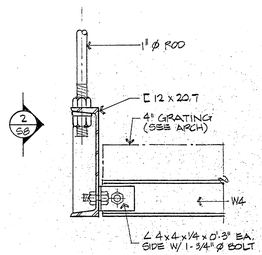
22/S7 RIDGE PLATE DETAIL
1 1/2" = 1'-0"

23/S7 ROOF FRAMING DETAIL
1 1/2" = 1'-0"

4-14-88: ADD ANGLE NOTE TO DTL #2
11-18-88

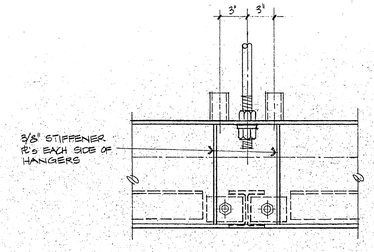
AS BUILT
AUGUST 1, 1992

ARNOLD & O'SHERIDAN, INC. CONSULTING ENGINEERS
915 FORWARD DRIVE • MADISON, WISCONSIN 53711
608-271-9551 JOB NO. 8741S5

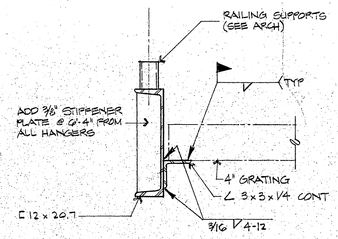


2/S8 1" ø ROD, C 12 x 20.7, 4" GRATING (SEE ARCH), W4, ∠ 4x4x1/4 x 0'-3" EA. SIDE W/ 1-3/4" ø BOLT

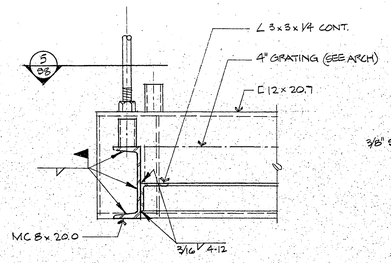
1 / S8 MEZZANINE SUPPORT DETAIL
1½" = 1'-0"



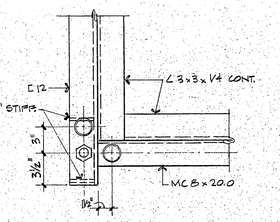
2 / S8 ELEVATION AT SUPPORT ROD
1½" = 1'-0"



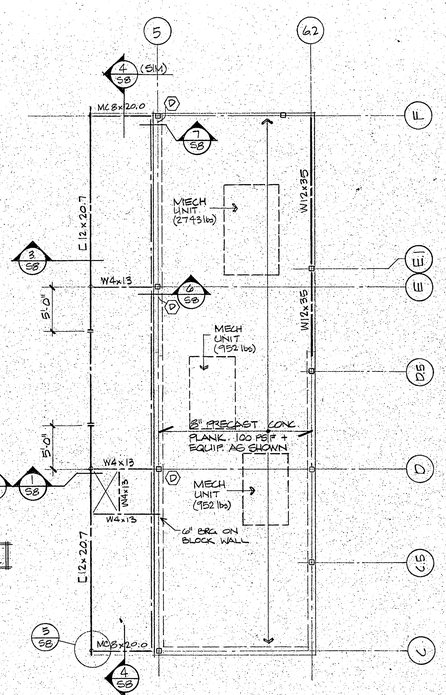
3 / S8 TYP. MEZZANINE FRAMING DET.
1½" = 1'-0"



4 / S8 SECT. AT. MEZZANINE END FRAME
1½" = 1'-0"

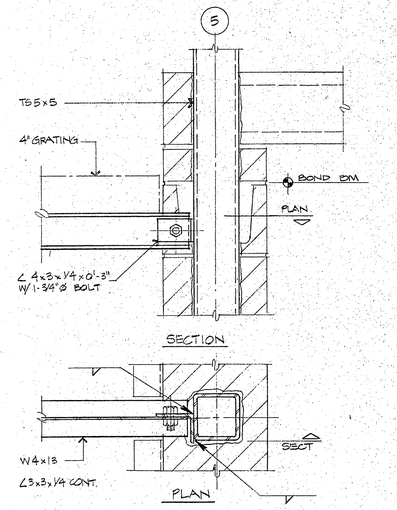


5 / S8 PLAN AT CORNER CONN.
1½" = 1'-0"

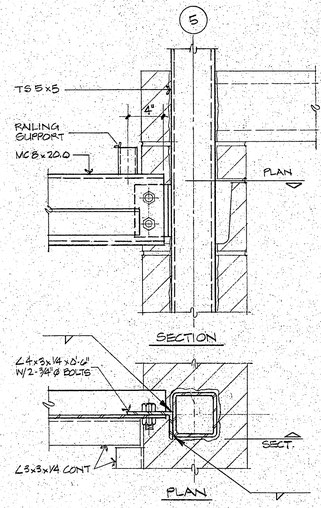


NOTES: PRECAST CONC. PLANK SHALL HAVE A 2 HOUR FIRE RATING.

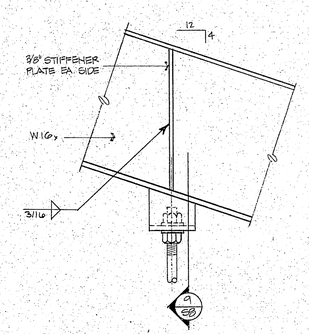
10 / S8 MECH. RM. FLOOR FRAMING
1/8" = 1'-0"



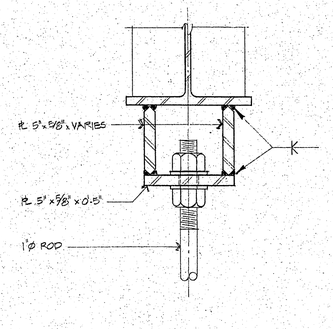
6 / S8 CONNECTION DETAIL
1½" = 1'-0"



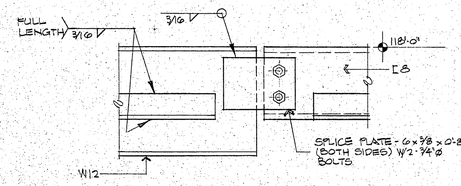
7 / S8 CONNECTION DETAIL
1½" = 1'-0"



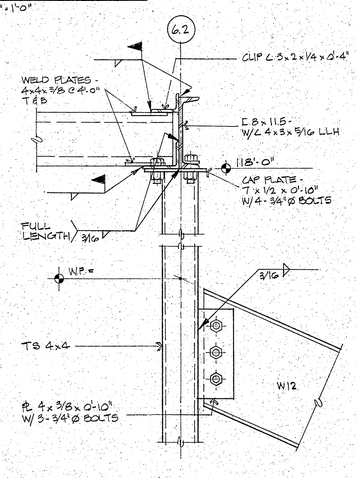
8 / S8 MEZZ. SUPPORT AT ROOF
1½" = 1'-0"



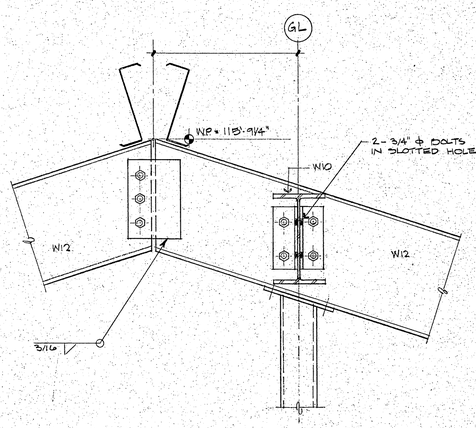
9 / S8 1" ø ROD CONN. DET.
3" = 1'-0"



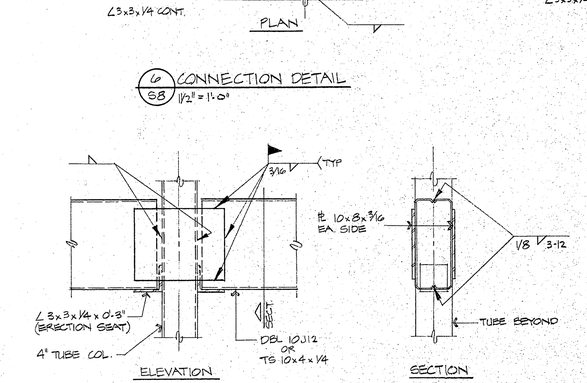
13 / S8 SPLICE DETAIL
1½" = 1'-0"



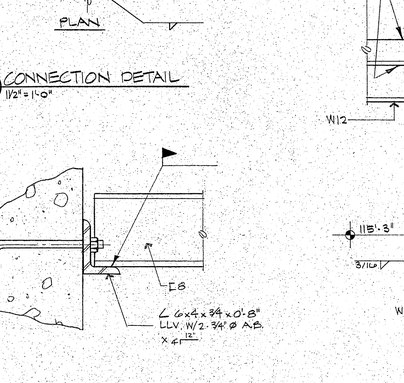
15 / S8 P.C. BRG. / BEAM CONNECTION DET.
1½" = 1'-0"



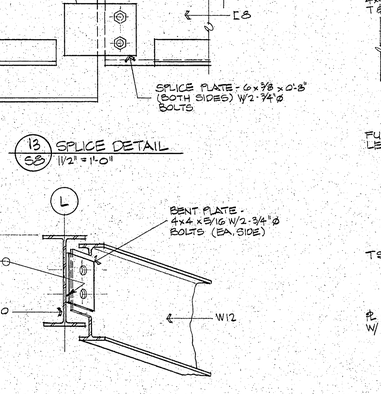
16 / S8 BEAM CONNECTION / SPLICE DETAIL
1½" = 1'-0"



17 / S8 BEAM BEARING DETAIL
1" = 1'-0"

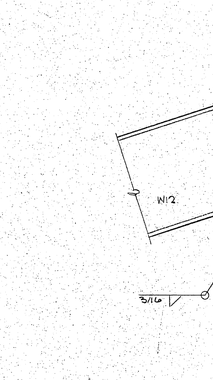


18 / S8 BEAM - COLUMN DETAIL
1½" = 1'-0"



19 / S8 BEAM - COLUMN DETAIL
1½" = 1'-0"

20 / S8 BEAM TO BEAM CONN.
1½" = 1'-0"



21 / S8 DBL. CHANNEL CONN. @ VESTIBULE
N.T.S.

AS BUILT
AUGUST 1, 1992

4-14-89: ADD NOTE REF. PC PLANK FIRE RATING & DETAIL # 10.
11-18-88

ARNOLD & O'SHERIDAN, INC.
CONSULTING ENGINEERS
915 FORWARD DRIVE · MADISON, WISCONSIN 53711
608-271-9681 JOB NO. 8741.8S

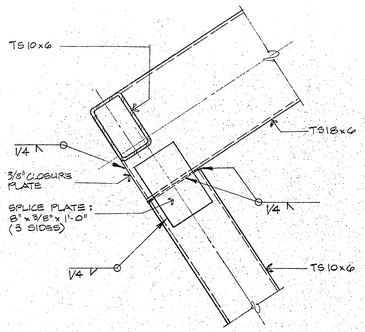
STUART WILLIAM GALLAHER, ARCHITECT, INC.
702 NORTH BLACKHAWK AVENUE • MADISON, WISCONSIN

BOTANICAL COMPLEX

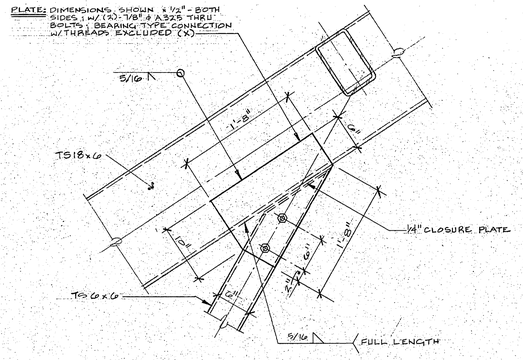
OLBRICH

MECHANICAL ROOM FLOOR FRAMING PLAN • DETAILS

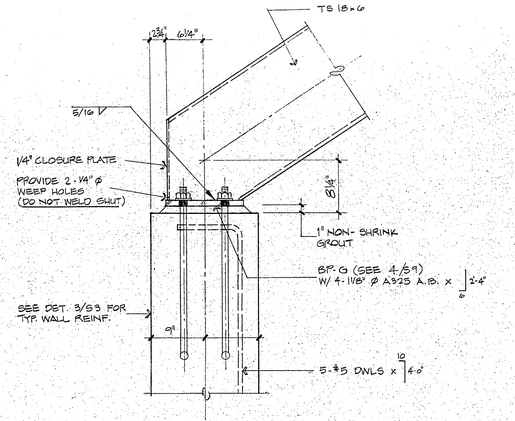
S8



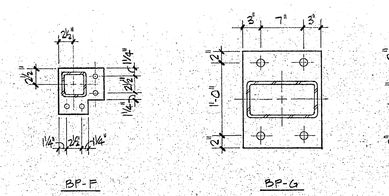
1/59 DETAIL BOT. TS18 CONN. @ TS10
1" = 1'-0"



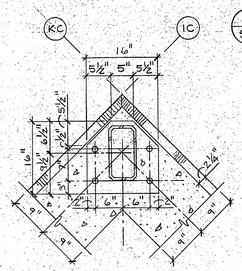
2/59 DETAIL TS6 BRACE CONN. @ TS18
1" = 1'-0"



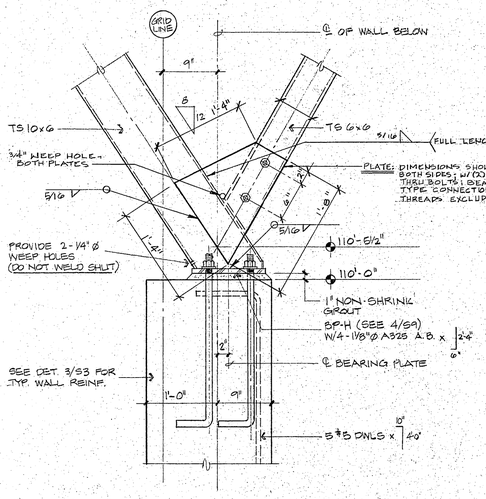
3/59 DETAIL BOT. TS18x6 @ BASE PLATE
1" = 1'-0"



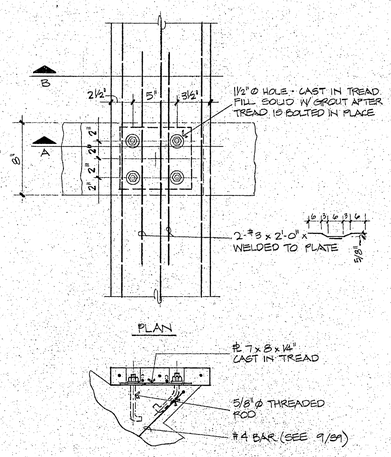
4/59 BASE PLATE DETAILS
1" = 1'-0"



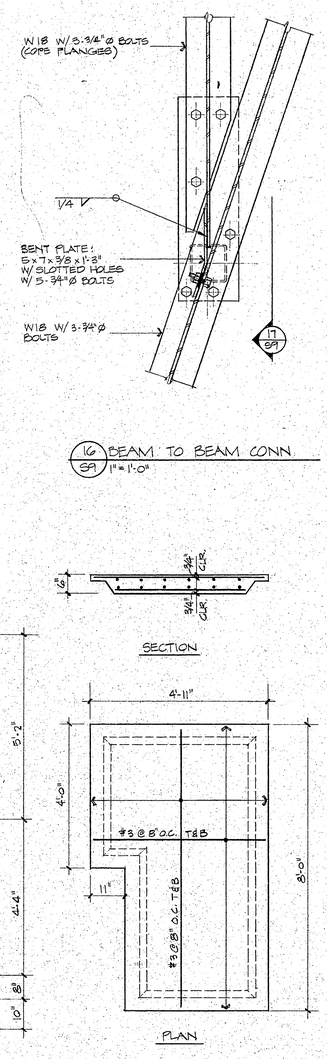
18/59 BASE PL. # BP-G @ NORTH CORNER OF CONSERVATORY
3/4" = 1'-0"



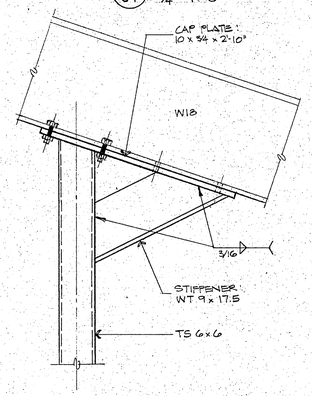
5/59 DETAIL BOT. TS10 @ BASE PLATE
1" = 1'-0"



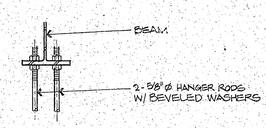
6/59 STAIR TREAD DETAIL
1 1/2" = 1'-0"



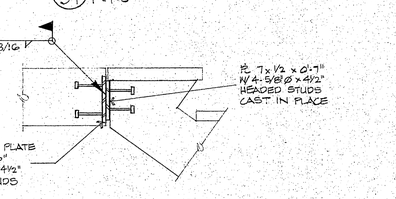
16/59 BEAM TO BEAM CONN
1" = 1'-0"



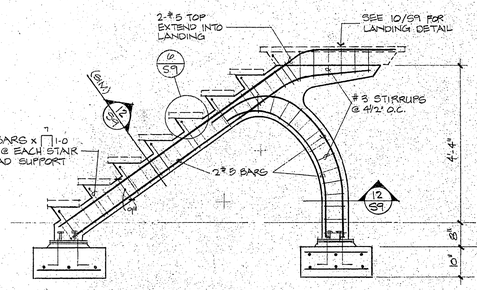
17/59 ELEVATION @ BEAM CONN.
1" = 1'-0"



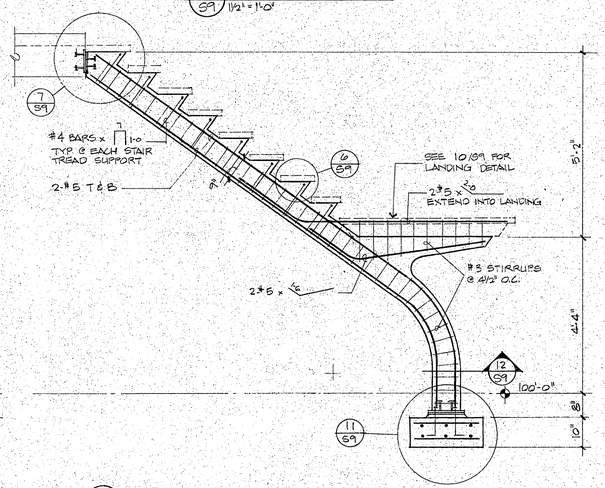
15/59 TYP. L.W.B. SUPPORT @ BM.
1 1/2" = 1'-0"



7/59 BEAM TO BALCONY CONNECTION
1" = 1'-0"

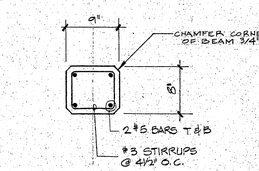


8/59 REINFORCING - LOWER STAIR BEAM
1/2" = 1'-0" (PRECAST BEAM)

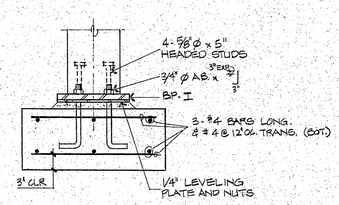


9/59 REINFORCING - UPPER STAIR BEAM
1/2" = 1'-0" (PRECAST BEAM)

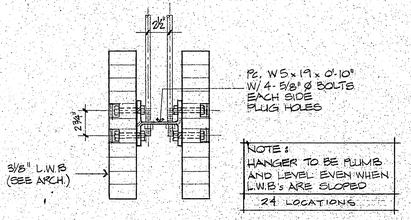
10/59 REINFORCING - LANDING
1/2" = 1'-0" (CAST IN PLACE)



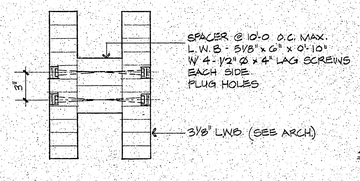
12/59 TYP. SECT. THRU BEAM
1" = 1'-0"



11/59 BASE PLATE DETAIL
1" = 1'-0"



14/59 TYP. L.W.B. SUPPORT DET.
1 1/2" = 1'-0"



13/59 TYP. L.W.B. SPACER DET.
1 1/2" = 1'-0"

AS BUILT
AUGUST 1, 1992

4-14-89: CHANGED PLATE SIZE @ DETAILS #2 & #5; ADD CHAMFER @ DETAIL #12; ADD QTY OF LOCATIONS TO DTL. # 14.
11-18-88

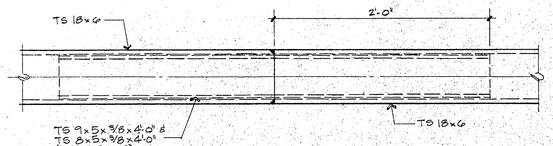
ARNOLD & O'SHERIDAN, INC.
CONSULTING ENGINEERS
915 FORWARD DRIVE MADISON, WISCONSIN 53711
608-271-6861 JOB NO. 87185

STUART WILLIAM GALLAHER, ARCHITECT, INC.
702 NORTH BLACKHAWK AVENUE • MADISON, WISCONSIN

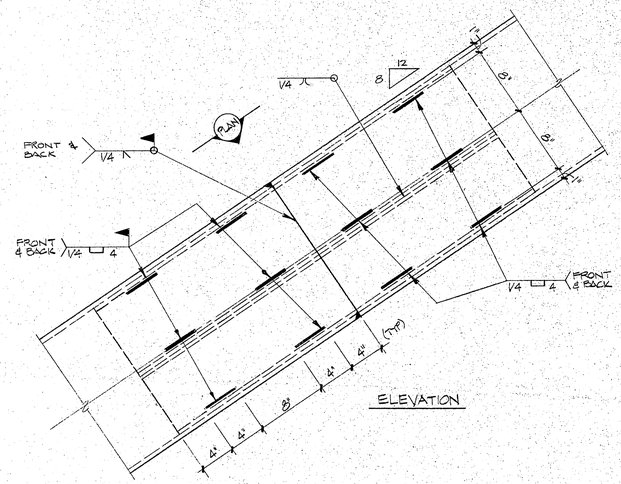
OLBRICH BOTANICAL COMPLEX

DETAILS

S9

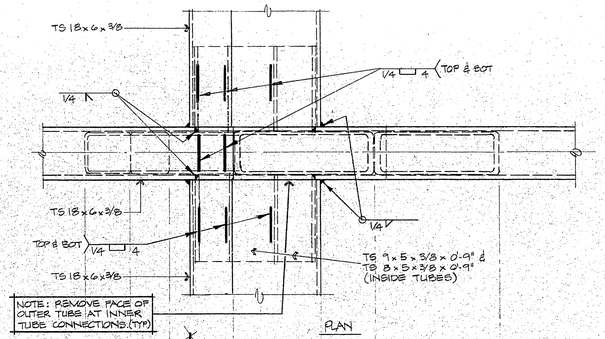


PLAN

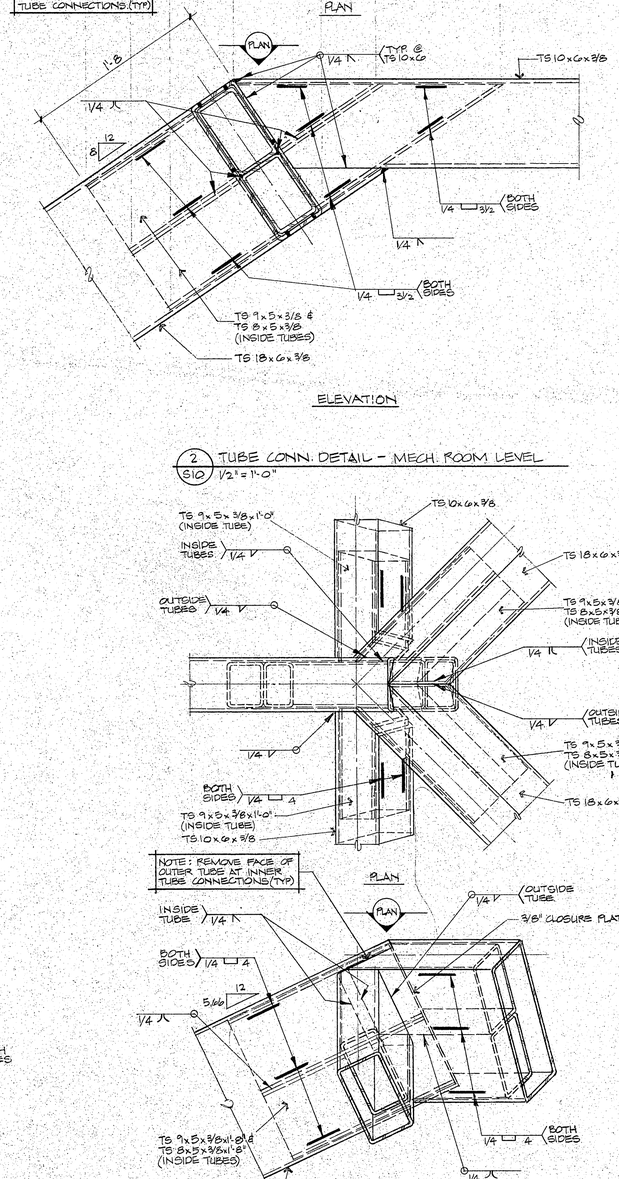


ELEVATION

1 / S10 SPLICE DETAIL - TS 18x6
1 1/2" = 1'-0"

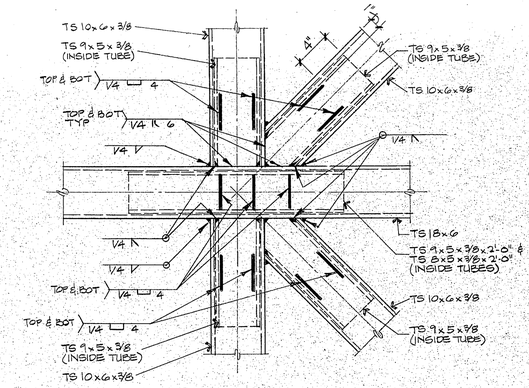


PLAN



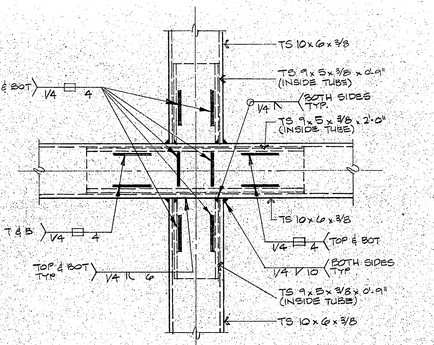
ELEVATION

2 / S10 TUBE CONN. DETAIL - MECH. ROOM LEVEL
1 1/2" = 1'-0"

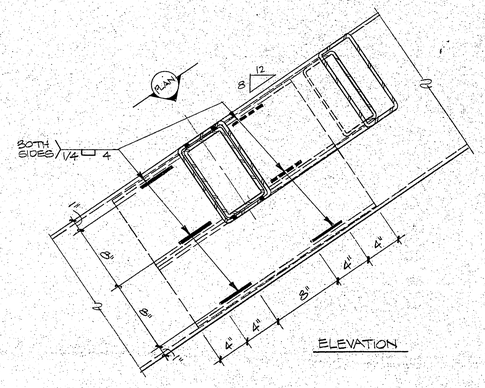


PLAN

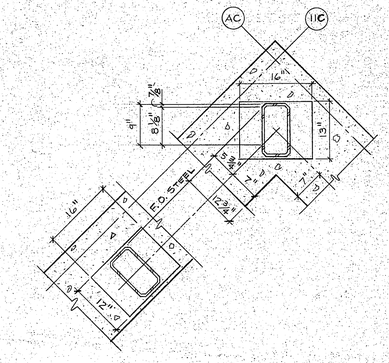
3 / S10 TUBE CONN. DETAIL - DIAG. BRACING @ ROOF PEAK
1 1/2" = 1'-0"



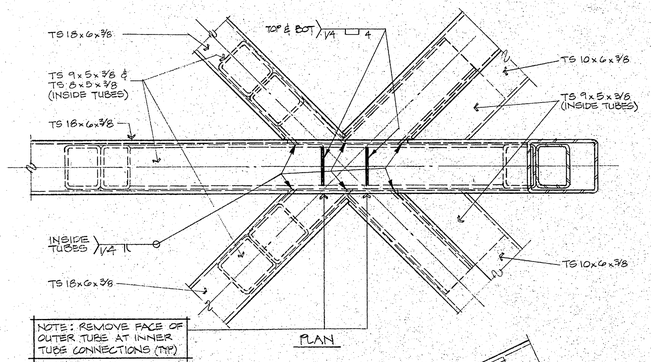
4 / S10 TUBE CONN. DETAIL - CENTER OF ROOF PEAK
1 1/2" = 1'-0"



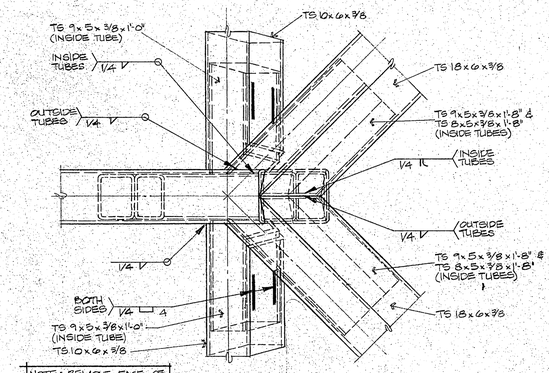
ELEVATION



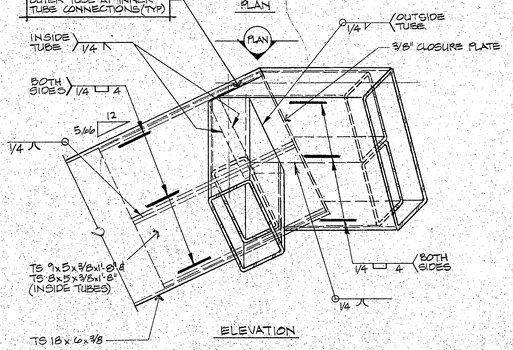
8 / S10 BASE R'S @ SOUTH CORNER
3/4" = 1'-0"



PLAN

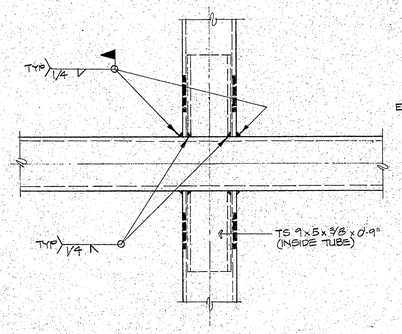


PLAN

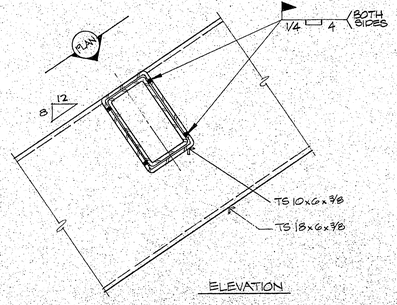


ELEVATION

6 / S10 TUBE CONN. DETAIL - CORNER MECH RM. LEVEL
1 1/2" = 1'-0"

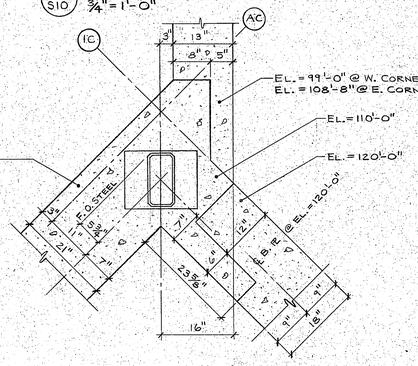


PLAN



ELEVATION

7 / S10 TUBE CONN. DETAIL - TS 10x6 TO TS 18x6
1 1/2" = 1'-0"



9 / S10 CONSERVATORY PIER CORNERS
3/4" = 1'-0"

WELDING NOTES

1. ALL SLOT AND GROOVE WELDS SHALL BE FINISHED WITH A FLUSH CONTOUR.
2. ALLOW INSPECTION OF INSIDE WELDS PRIOR TO WELDING EXTERIOR TUBES.

AS BUILT
AUGUST 1, 1992

11-18-88

ARNOLD & O'SHERIDAN, INC.
CONSULTING ENGINEERS
815 FORWARD DRIVE MADISON, WISCONSIN 53711
608-271-9681 JOB NO. 874186

STUART WILLIAM GALLAHER, ARCHITECT, INC.
702 NORTH BLACKHAWK AVENUE • MADISON, WISCONSIN

OLBRICH BOTANICAL COMPLEX

DETAILS • CONSERVATORY

S10

HVAC ABBREVIATIONS

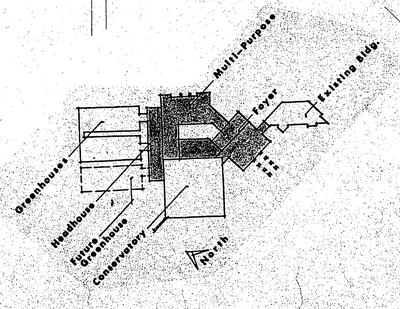
A	COMPRESSED AIR	LAT	LEAVING AIR TEMPERATURE
ACCU	AIR COOLED CONDENSING UNIT	LO	LINEAR DIFFUSER
ACU	AIR CONDITIONING UNIT	LWT	LEAVING WATER TEMPERATURE
AD	ACCESS DOOR		
AFMS	AIR FLOW MEASURING STATION	M	MOTOR OPERATED DAMPER
AHU	AIR HANDLING UNIT	MA	MIXED AIR
AL	ALUMINUM	MBH	1000 BRITISH THERMAL UNITS/HR
AP	ACCESS PANEL	MUA	MAKE-UP AIR
BB	BASEBOARD	NC	NOISE CRITERIA
BDD	BACK DRAFT DAMPER	NIC	NOT IN CONTRACT
		NTS	NOT TO SCALE
CD	CEILING DIFFUSER		
CFM	CUBIC FEET PER MINUTE	OA	OUTSIDE AIR
COND	CONDENSATE		
CONV	CONVECTOR	P	PUMP
CUH	CABINET UNIT HEATER	PC	PLUMBING CONTRACTOR
		PD	PUMP DISCHARGE
D	DRAIN	PRESS	PRESSURE
DB	DRY BULB	PRV	PRESSURE REDUCING VALVE
DC	DRY COOLER	PSI	POUNDS PER SQUARE INCH
DCO	DOOR CUTOFF		
DG	DOOR GRILLE	R	RADIANT SYSTEM
DN	DOWN	RA	RETURN AIR
		RF	RETURN FAN
EAT	ENTERING AIR TEMPERATURE	RG	RETURN GRILLE
EC	ELECTRICAL CONTRACTOR	RH	RELIEF HOOD
EF	EXHAUST FAN	RPM	REVOLUTIONS PER MINUTE
EG	EXHAUST GRILLE		
ER	EXHAUST REGISTER	S	SUPPLY
EWT	ENTERING WATER TEMPERATURE	SA	SUPPLY AIR
EXH	EXHAUST	SD	SLOT DIFFUSER
		SF	SQUARE FEET
F	FURNACE	SG	SUPPLY GRILLE
FA	FREE AREA	SM	SHEET METAL
FCU	FAN COIL UNIT	SR	SUPPLY REGISTER
FD	FLOOR DRAIN		
FILL	FILL LINE	T	THERMOSTAT
FLEX	FLEXIBLE	TA	THROWAWAY
FPM	FEET PER MINUTE	TCV	TEMPERATURE CONTROL VALVE
FS	FLOW SWITCH	TF	TRANSFER FAN
		TG	TRANSFER GRILLE
G	GAS		
GA	GAUGE	UH	UNIT HEATER
GC	GENERAL CONTRACTOR	UV	UNIT VENTILATOR
GPM	GALLONS PER MINUTE		
		V	VENT LINE
HC	HEATING CONTRACTOR	VD	VOLUME DAMPER
HP	HORSEPOWER	VVB	VARIABLE VOLUME BOX
HR	HOUR		
HWR	HOT WATER - RETURN	W TO W	WALL TO WALL
HWS	HOT WATER - SUPPLY	WB	WET BULB
		WC	WATER COLUMN
KW	KILOWATT	WF	WALL FIN

HVAC SYMBOLS

- SPLITTER DAMPER
- MOTOR OPERATED DAMPER
- VOLUME DAMPER (MANUAL) (VD)
- TURNING VANES
- FLEXIBLE DUCT CONNECTION
- INCLINED UP (UP)
- INCLINED DOWN (DN)
- TRANSFER AIR OPENING IN PARTITION
- SUPPLY DUCT
- RETURN AIR, OUTSIDE AIR OR EXHAUST AIR DUCT
- THERMOSTAT, ELECTRIC OR ELECTRONIC
- THERMOSTAT, PNEUMATIC (T)
- D — DRAIN
- G — GAS
- HWS — HOT WATER SUPPLY
- HWR — HOT WATER RETURN
- ELBOW, TURNED UP
- ELBOW, TURNED DOWN

- FLOW DIRECTION
- ANCHOR
- AUTOMATIC CONTROL VALVE (2-WAY)
- BALANCING VALVE
- CHECK VALVE
- FLEXIBLE PIPE CONNECTION
- GAS COCK
- BALL, BUTTERFLY, OR GATE VALVE. SEE SPECIFICATION
- HVAC AUTOMATION SYSTEM WATER FLOW SENSOR
- MANUAL AIR VENT
- PIPE CAP
- PITCH DOWN
- PRESSURE GAUGE
- SAFETY VALVE
- STRAINER
- TEE OUTLET, DOWN
- TEE OUTLET, UP
- THERMOMETER
- THERMOMETER TEST WELL
- UNION

FLOOR PLAN — SCALE: 1/8"=1'-0"



WISCONSIN
WILLIAM F. SHARP
E-10295
Madison
Wis.
PROFESSIONAL ENGINEER

AS BUILT
AUGUST 1, 1992
11-18-98

4-14-89: CHANGES TO RETURN AIR DUCT LOCATION AT AHU-5; ① CHANGES MADE TO PERIMETER DISTRIBUTION & NOTES AT EAST SIDE OF MULTI-PURPOSE ROOM; ② CHANGES TO DUCT WORK AT WEST SIDE MULTI-PURPOSE ROOM.

ARNOLD & O'SHERIDAN, INC.
CONSULTING ENGINEERS
835 FORWARD DRIVE · MADISON, WISCONSIN 53711
(608) 271-8801 JOB NO. 8741BH

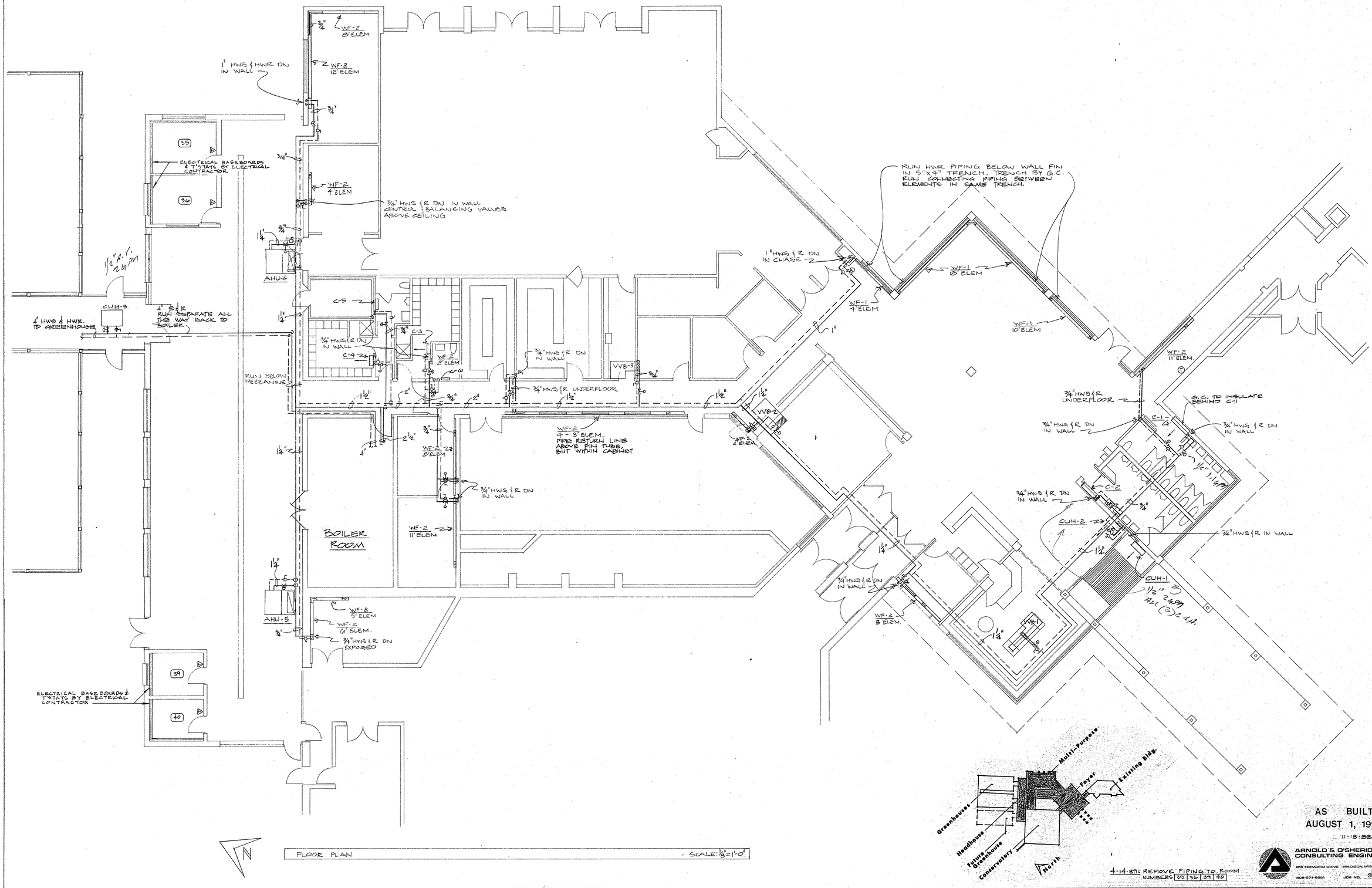
STUART WILLIAM GALLAHER, ARCHITECT, INC.
702 NORTH BLACKHAWK AVENUE • MADISON, WISCONSIN

BOTANICAL COMPLEX

OLBRICH BOTANICAL GARDENS • 2-7-89

COMPLEX FLOOR PLAN/AIR DISTRIBUTION

H-1



4-14-89: REMOVE PIPING TO ROOM NUMBERS 35 | 36 | 39 | 40

AS BUILT
AUGUST 1, 1992
11-18-88

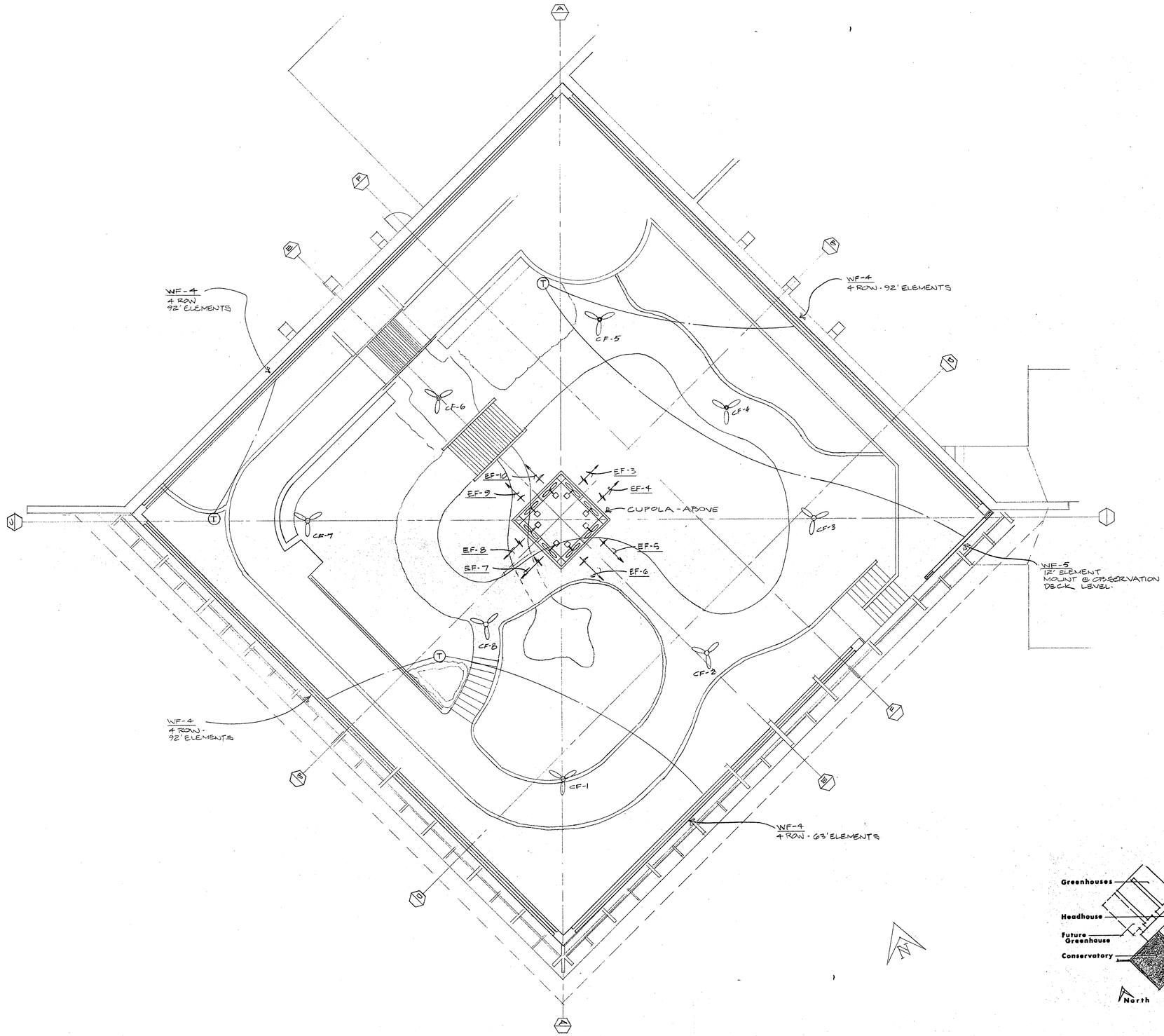
ARNOLD & O'SHERIDAN, INC.
CONSULTING ENGINEERS
615 FORWARD DRIVE MADISON, WISCONSIN 53711
608-271-9551 JOB NO. 8741B.H

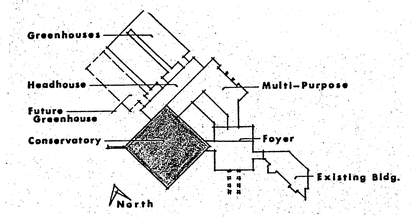
STUART WILLIAM GALLAHER, ARCHITECT, INC.
702 NORTH BLACKHAWK AVENUE • MADISON, WISCONSIN

OLBRICH BOTANICAL COMPLEX

COMPLEX FLOOR PLAN / HEATING PIPING •

H-2





CONSERVATORY UPPER LEVEL FLOOR PLAN SCALE: 1/8"=1'-0"

AS BUILT
AUGUST 1, 1992
11-18-88

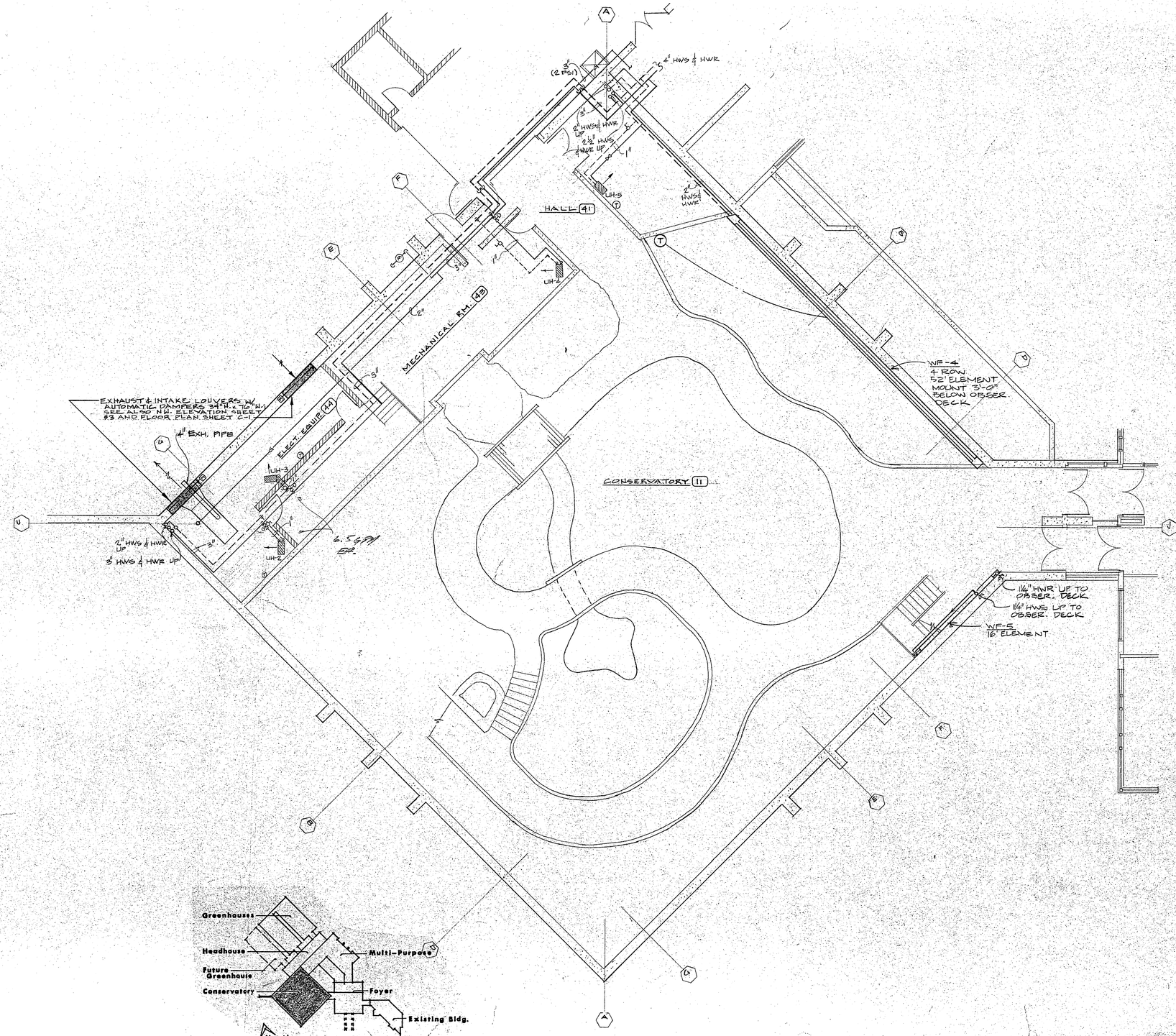
ARNOLD & O'SHERIDAN, INC.
CONSULTING ENGINEERS
915 FORWARD DRIVE MADISON, WISCONSIN 53711
608-271-5551 JOB NO. 8741BH

STUART WILLIAM GALLAHER, ARCHITECT, INC.
702 NORTH BLACKHAWK AVENUE • MADISON, WISCONSIN

OLBRICH BOTANICAL COMPLEX

CONSERVATORY UPPER LEVEL / HEATING & VENTILATING

H-3



CONSERVATORY - FIRST FLOOR PLAN

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

AS BUILT
AUGUST 1, 1992

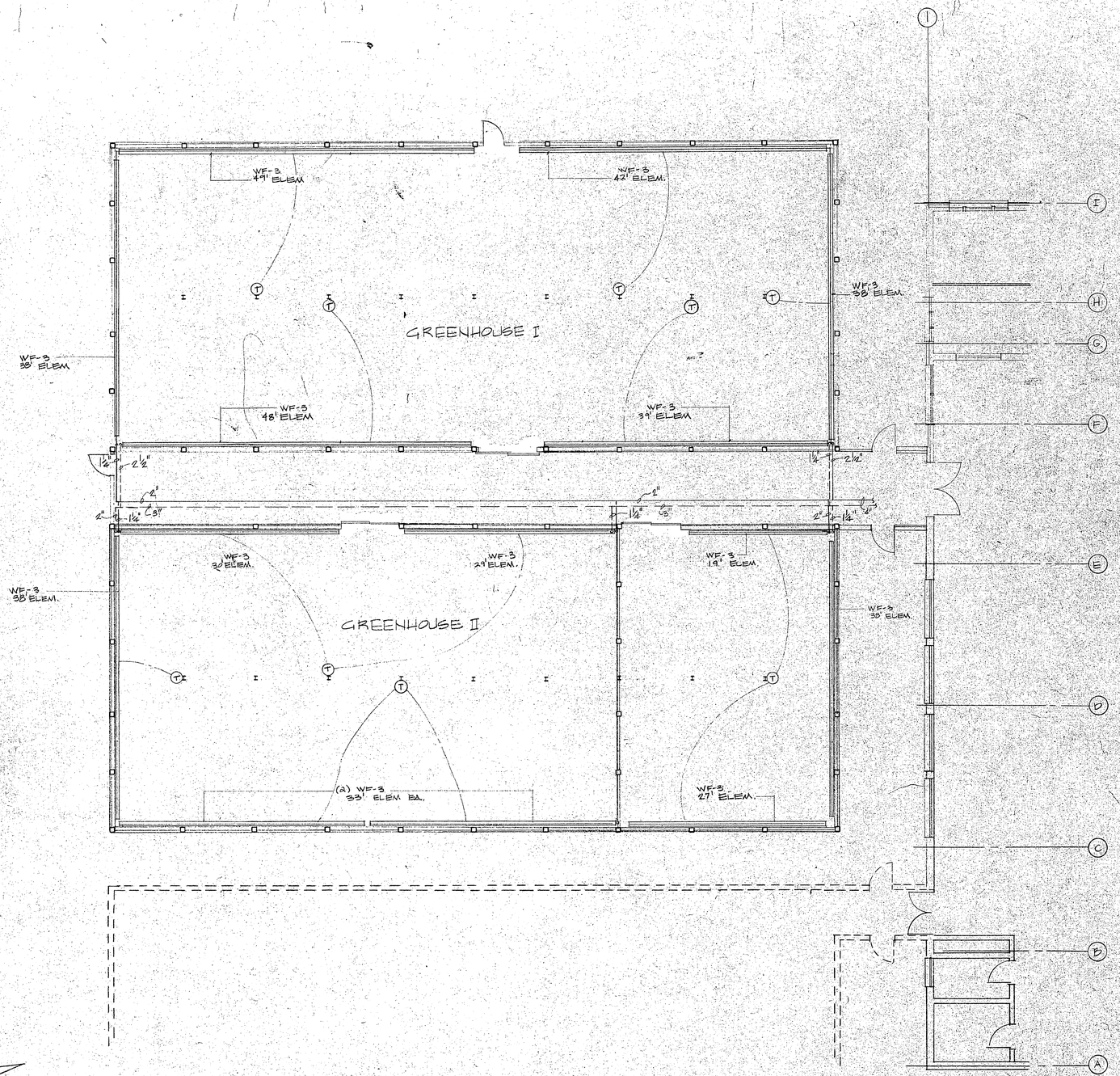
6-16-89: CHANGES MADE @ ELECT. EQUIP. RM. 44
11-18-88

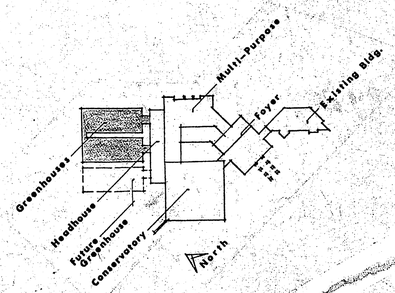
ARNOLD & O'SHERIDAN, INC.
CONSULTING ENGINEERS
616 FORWARD DRIVE MADISON, WISCONSIN 53711
608-271-9551 JOB NO. 8741BH

STUART WILLIAM GALLAHER, ARCHITECT, INC.
702 NORTH BLACKHAWK AVENUE • MADISON, WISCONSIN

OLBRICH BOTANICAL COMPLEX
CONSERVATORY FIRST FLOOR PLAN / HEATING & VENTILATION

H-4





N

GREENHOUSE FLOOR PLAN SCALE: ⅛"=1'-0"

8-1-92: SEE SHEET H-10 FOR AS-BUILT GREENHOUSE HEATING.

VOID
ORIGINAL DESIGN
—NOT AS BUILT—
AUGUST 1, 1992

11-18-88

4-14-89: CHANGES MADE TO LENGTHS OF SOME WF-3's.

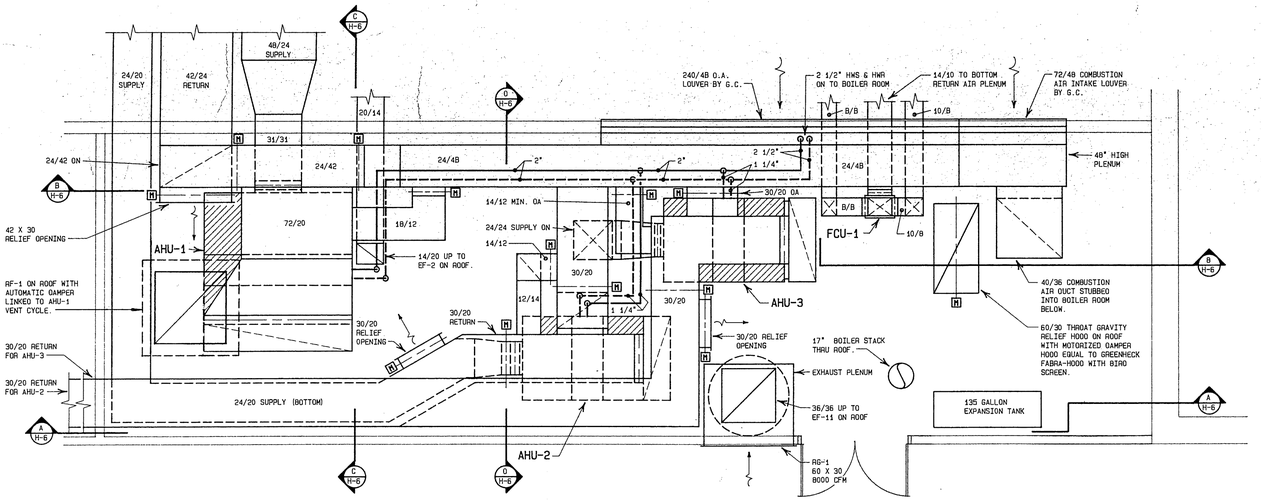
ARNOLD & O'SHERIDAN, INC.
CONSULTING ENGINEERS
915 FORWARD DRIVE MADISON, WISCONSIN 53711
608-271-9661 JOB NO. 8741BH

STUART WILLIAM GALLAHER, ARCHITECT, INC.
702 NORTH BLACKHAWK AVENUE • MADISON, WISCONSIN

OLBRICH BOTANICAL COMPLEX
MADISON, WISCONSIN
2330 ATWOOD AVENUE

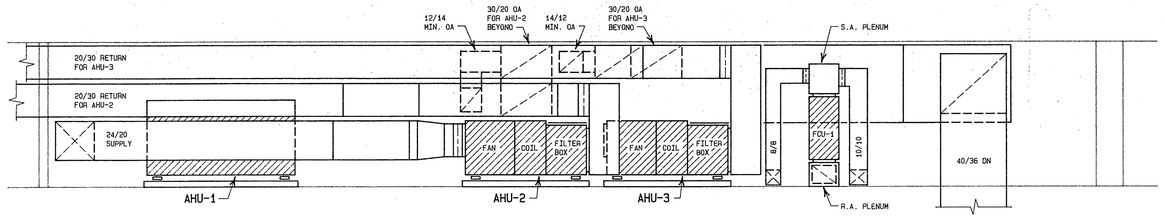
GREENHOUSE FLOOR PLAN/HEATING

H-5



1 H-6 UPPER MECHANICAL ROOM

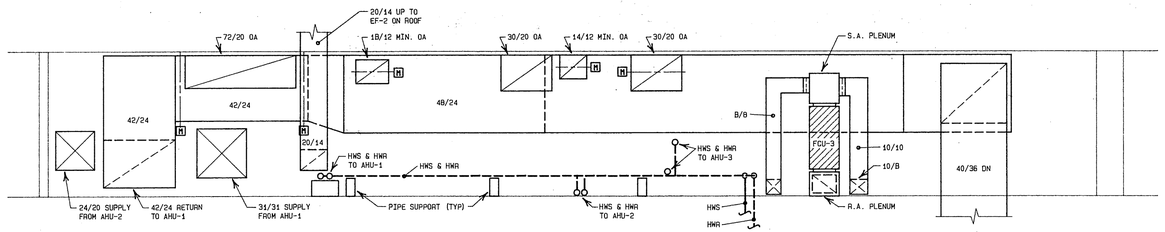
1/4" = 1'-0"



NOTE:
AHU-1 IS SHOWN WITHOUT DUCT CONNECTIONS. AHU-3 IS SHOWN WITHOUT SUPPLY DUCTWORK.

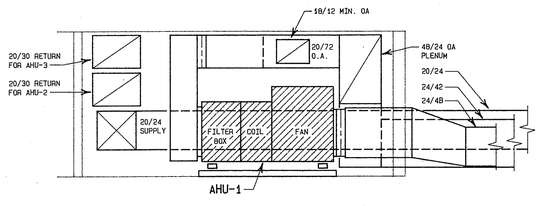
2 H-6 SECTION A-A

1/4" = 1'-0"



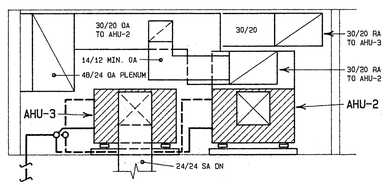
3 H-6 SECTION B-B

1/4" = 1'-0"



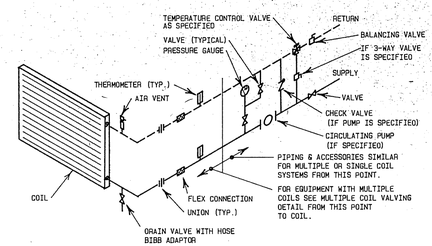
4 H-6 SECTION C-C

1/4" = 1'-0"



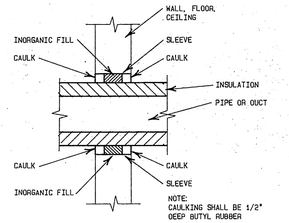
5 H-6 SECTION D-D

1/4" = 1'-0"



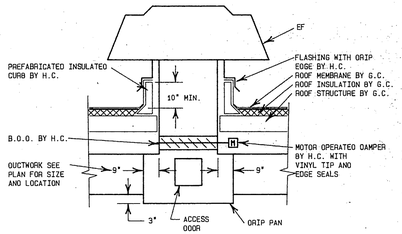
6 H-6 WATER COIL PIPING DETAIL

NO SCALE



7 H-6 PIPE OR DUCT SLEEVE

NO SCALE

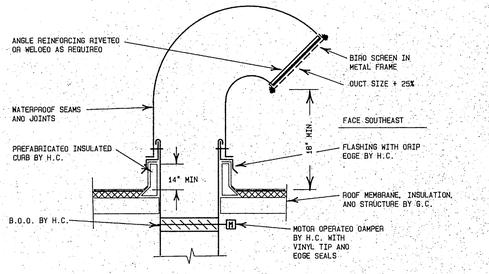


8 H-6 ROOF EXHAUST FAN DETAIL

NO SCALE

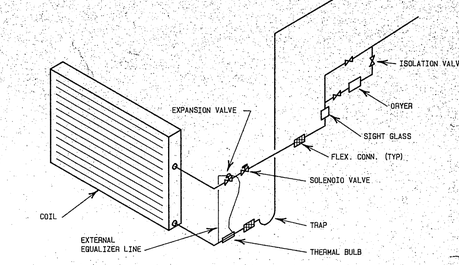
9 H-6 UNDERFLOOR PLENUM DETAIL

NO SCALE



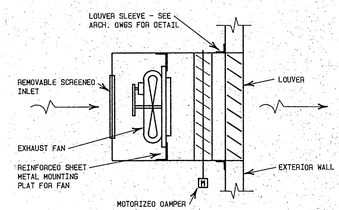
11 H-6 GOOSENECK DETAIL

NO SCALE



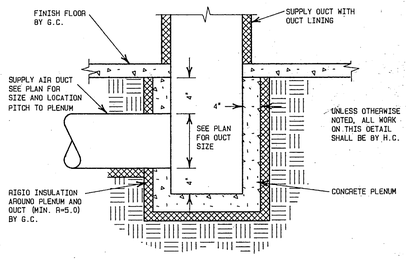
10 H-6 REFRIGERATION PIPING ISOMETRIC

NO SCALE



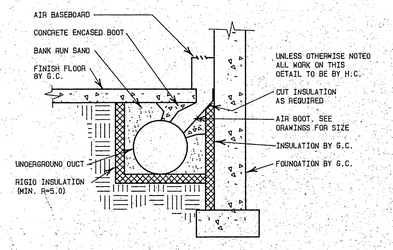
12 H-6 WALL EXHAUST FAN DETAIL

NO SCALE



9 H-6 UNDERFLOOR PLENUM DETAIL

NO SCALE



13 H-6 UNDERGROUND DUCT DETAIL

NO SCALE

11-16-98

AS BUILT
AUGUST 1, 1992

4-14-93 SHIFT LOCATION OF R.F.A.I. AT UPPER MECHANICAL ROOM PLAN (DETAIL #1).

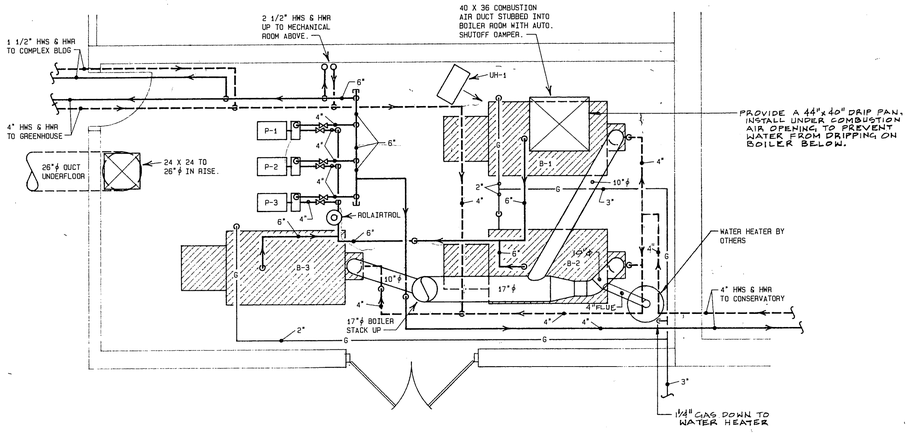
ARNOLD & O'SHERIDAN, INC.
CONSULTING ENGINEERS
915 FORWARD DRIVE MADISON, WISCONSIN 53711
608-271-9251 JOB NO. 8741B H

STUART WILLIAM GALLAHER, ARCHITECT, INC.
702 NORTH BLACKHAWK AVENUE • MADISON, WISCONSIN

OLBRICH BOTANICAL COMPLEX

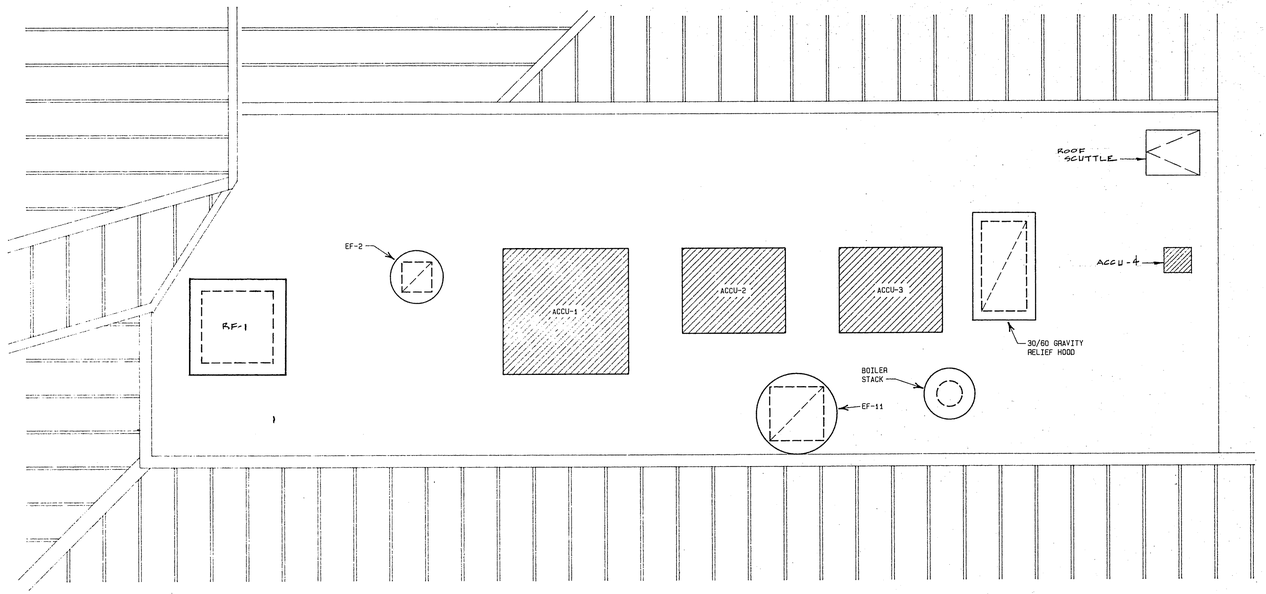
MECHANICAL ROOM FLOOR PLAN - SECTIONS & DETAILS

H-6



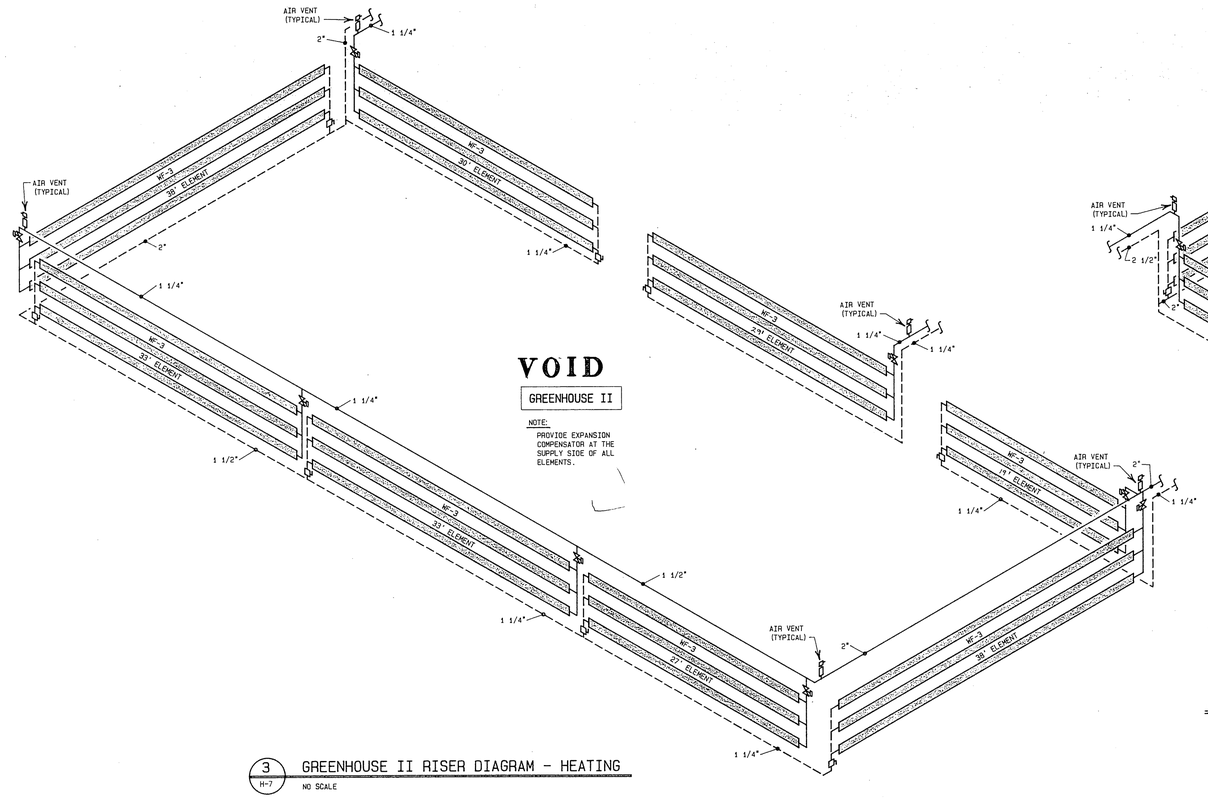
1 H-7 BOILER ROOM (30)

1/4" = 1'-0"



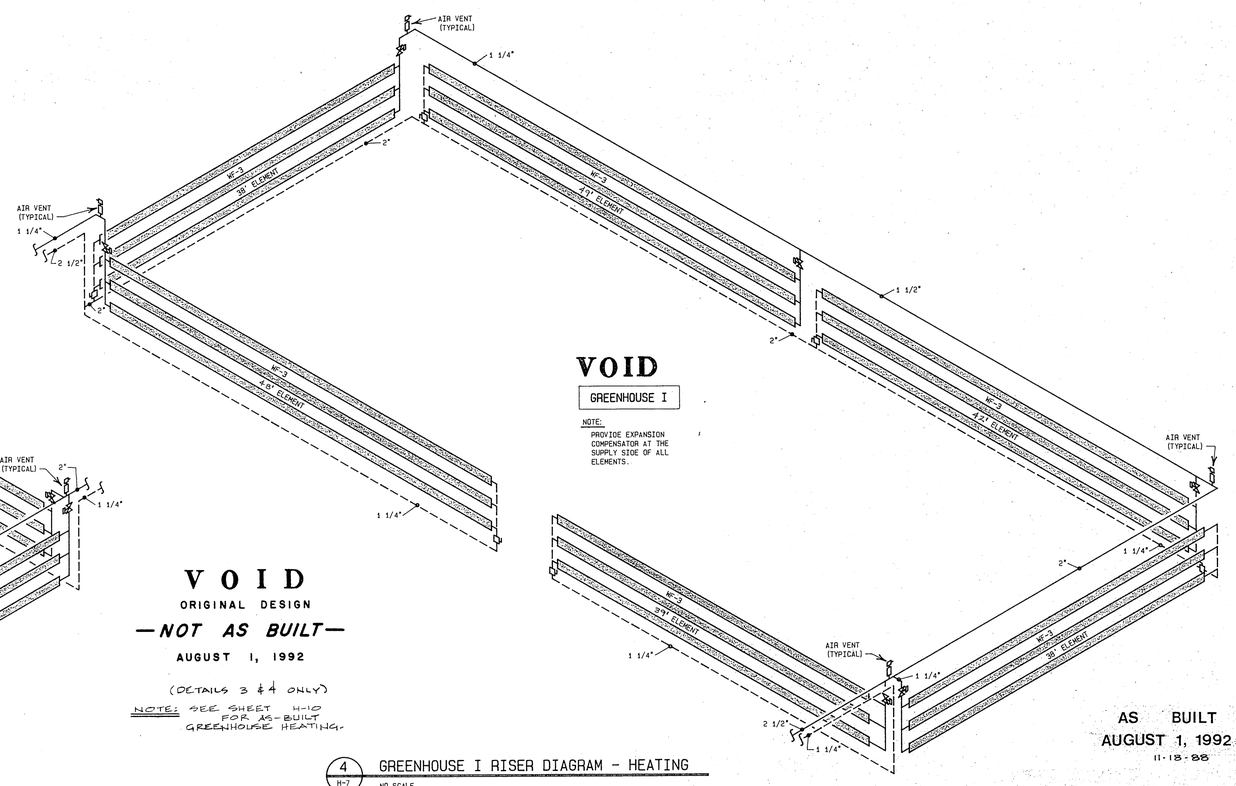
2 H-7 PARTIAL ROOF PLAN ABOVE MECHANICAL ROOM

1/4" = 1'-0"



3 H-7 GREENHOUSE II RISER DIAGRAM - HEATING

NO SCALE



4 H-7 GREENHOUSE I RISER DIAGRAM - HEATING

NO SCALE

VOID
ORIGINAL DESIGN
—NOT AS BUILT—
AUGUST 1, 1992

(DETAILS 3 & 4 ONLY)

NOTE: SEE SHEET H-10 FOR AS-BUILT GREENHOUSE HEATING.

AS BUILT
AUGUST 1, 1992
11-13-88

4-14-89: RELOCATED WATER HEATER @ DTL. #1; RELOCATED RF-1 & ACCU-4 @ DTL. #2; CHANGED WF-3 SIZES @ DTL's #3 & #4

STUART WILLIAM GALLAHER, ARCHITECT, INC.
702 NORTH BLACKHAWK AVENUE • MADISON, WISCONSIN

OLBRICH BOTANICAL COMPLEX

BOILER ROOM FLOOR PLAN, MECHANICAL ROOM ROOF PLAN, GREENHOUSE RIGID DIAGRAMS - HEATING

ARNOLD & O'SHERIDAN, INC. CONSULTING ENGINEERS
915 FORWARD DRIVE MADISON, WISCONSIN 53711
608-271-9851 JOB NO. 8741BH

H-7

CABINET UNIT HEATER SCHEDULE

Symbol	CUH-1	CUH-2	CUH-3	
Service	VESTIBULE - 1	FOYER	VESTIBULE-37	
Manufacturer	TRANE	TRANE	TRANE	
Model No.	M46A003	M46A003	O46A003	
Mounting	VERTICAL	VERTICAL	HORIZONTAL	
Recess (IN)	-----	-----	-----	
Air Flow (CFM)	300	300	300	
E.A.T. (°F)	60	60	60	
Capacity (MBH)	21.5	21.5	21.5	
G.P.M.	2.0	2.0	2.0	
E.W.T. (°F)	180	180	180	
W.P.D. (Ft)	0.97	0.97	0.97	
T.C.V. Size	1/2	1/2	1/2	
Motor H.P.	1/30	1/30	1/30	
Fan Speed	1100/900/700	1100/900/700	1100/900/700	

BOILER SCHEDULE

Symbol	B-1	B-2	B-3	
Manufacture	KEWANEE	KEWANEE	KEWANEE	
Model	M-265	M-265	M-265	
Boiler Type	PACKAGE	PACKAGE	PACKAGE	
Type of Heating	HOT WATER	HOT WATER	HOT WATER	
Boiler Working Press.	30 PSI	30 PSI	30 PSI	
Gross Output (MBH)	2650	2650	2650	
Boiler Horsepower	80	80	80	
Firing Rate (Gas CFH)	3313	3313	3313	
Htg Surface (W.S. SF)	343	343	343	
Burner Type	GAS	GAS	GAS	
Boiler Draft	FORCED	FORCED	FORCED	
Fan H.P.	1 1/2	1 1/2	1 1/2	
Burner Fuels	NATURAL GAS	NATURAL GAS	NATURAL GAS	
Gas Train Input Press.	8"W.C.	8"W.C.	8"W.C.	

CIRCULATION PUMP SCHEDULE

Symbol		P-1	P-2	P-3	P-4
Service		HEATING H2O	HEATING H2O	HEATING H2O	
Manufacturer		BELL & GOSSET	BELL & GOSSET	BELL & GOSSET	
Model No.		1510-56	1510-56	1510-56	
G.P.M.		375	375	375	
Pump Head (Ft)		60'	60'	60'	
Vibration	Type	A	A	A	
Isolator	Deflection	.35	.35	.35	
Motor RPM		1150	1150	1150	
Motor H.P.		7 1/2	7 1/2	7 1/2	
Fluid Pumped		WATER	WATER	WATER	
Pump Efficiency (Min)		70	70	70	

VARIABLE VOLUME BOX SCHEDULE

Symbol	VVB-1	VVB-2	VVB-3	VVB-4
Service	GIFT SHOP	LIBRARY	INTERIOR OFFICES	
Manufacturer	TRANE	TRANE	TRANE	
Model No.	VSWD0307	VSWD1111	VSWD0307	
Air Flow (CFM) Min/Max	440/730	560/1070	440/730	
Inlet S.P. (In. W.C.)	0.35	0.07	0.35	
HEATING COIL				
E.A.T. (°F)	60	60	60	
Capacity (MBH)	15.0	18.0	15.0	
A.P.D. (In. W.C.)	0.10	0.10	0.10	
G.P.M.	1.5	1.8	1.5	
E.W.T. (°F)	180	180	180	
W.P.D. (Ft)	0.3	0.3	0.3	
T.C.V. Size	1/2	1/2	1/2	
FAN POWER BOX				
Fan Arrangement	FC	FC	FC	
Fan Motor HP	1/8	1/4	1/8	
Fan C.F.M.	440	560	440	
External S.P. (In. W.C.)	0.5	0.9	0.5	

UNIT HEATER SCHEDULE

Symbol	UH-1	UH-2	UH-3	UH-4	UH-5
Service	BOILER ROOM	GEN. ROOM	CONSERVATORY ELECTRICAL ROOM	CONSERVATORY MECHANICAL ROOM	CONSERVATORY STORAGE
Manufacturer	MODINE	MODINE	MODINE	MODINE	MODINE
Model No.	HS-165L	HS-108L	HS-108L	HS-86L	HS-108L
Type	HORIZONTAL DEL.	HORIZONTAL DEL.	HORIZONTAL DEL.	HORIZONTAL DEL.	HORIZONTAL DEL.
Throw (FT)	69'	54'	54'	55'	54'
AIR FLOW (CFM)	3480	2150	2150	1510	2150
E.A.T. (°F)	60	60	60	60	60
CAPACITY (MBH)	112.0	65.0	65.0	44.0	65.0
GPM	11.0	6.5	6.5	4.4	6.5
E.W.T.	180	180	180	180	180
T.C.V. SIZE	3/4	1/2	1/2	1/2	1/2
MOTOR H.P.	1/3	1/8	1/8	1/8	1/8
FAN SPEED	1075	1625	1625	1625	1625

AIR HANDLING UNIT SCHEDULE

Symbol		AHU-1	AHU-2	AHU-3	AHU-4	AHU-5
Service		FOYER	MULTI-PURPOSE INTERIOR	MULTI-PURPOSE EXTERIOR	HEAD HOUSE WEST	HEAD HOUSE EAST
Manufacturer		TRANE	TRANE	TRANE	TRANE	TRANE
Model No.		25	10	10	T6	T6
Air Flow (CFM)		11,500	3420	3608	1800	1800
% Outside Air		10.0	20.3	18.0	8.6	8.6
Total S.P. (In. W.C.)		2	2	2	.50	.50
Unit Arrangement		HORIZONTAL	HORIZONTAL	HORIZONTAL	HORIZONTAL	HORIZONTAL
Unit Face & By-Pass		------	------	------	------	------
Number of Zones		1	1	1	1	1
Filter	Type	TA	TA	TA	TA	TA
	Arrangement	MEDIUM	MEDIUM	MEDIUM	MEDIUM	MEDIUM
Vibration	Type	B	B	B	D	D
Isolator	Deflection	0.75	0.75	0.75	0.75	0.75
Blower (RPM)		835	893	894	1740	1740
Motor H.P.		10	5	5	2.0	2.0
HEATING COIL						
E.A.T. (°F)		61.5	53	55	63	63
L.A.T. (°F)		95	85	90	120	120
Capacity (MBH)		430.1	140.8	177.1	111.5	111.5
Face Velocity (FPM)		477	423	423	340	340
A.P.D. (In. W.C.)		0.15	0.15	0.15	0.15	0.15
Hot Water (GPM)		29	9.33	11.8	7.43	7.43
E.W.T. (°F)		180	180	180	180	180
W.P.D. (Ft)		1.0	0.15	0.25	0.15	0.15
T.C.V. Size		1 1/2"	1"	1"	1"	1"
T.C.V. P.D. (Ft)		8	8	8	8	8
COOLING COIL						
Manufacturer		TRANE	TRANE	TRANE		
Model No.						
Air In DB/WB (°F)		80/67	82/69	81/69		
Air Out DB/WB (°F)		56/55	56/55	56/55		
Capacity (MBH)		471.2	165.1	188.8	NONE	NONE
Face Velocity (FPM)		477	423	491		
A.P.D. (In. W.C.)		0.60	0.50	0.70		
Refrigerant Type		R-22	R-22	R-22		
Suction Temp. (°F)		40	40	40		

WALL FIN SCHEDULE

Symbol	WF-1	WF-2	WF-3	WF-4	WF-5
Manufacturer	TRANE	TRANE	TRANE	TRANE	TRANE
Cabinet Type	12TA FRONT INLET	10TA	BAREFIN	CUSTOM	20 E3-2W
Tube & Element Material	CU/AL	CU/AL	CU/AL	CU/AL	CU/AL
Row & Series	1/50	1/35	3/50	4/58	2/50
Tube Size	1 1/4"	3/4"	1 1/4"	1 1/4"	1 1/4"
Fins Size (In)	3 1/4 X 5 1/4	3 1/4 X 3 1/4	3 1/4 X 5 1/4	3 1/4 X 5 1/4	3 1/4 X 5 1/4
E.A.T. (°F)	65	65	65	65	65
A.W.T. (°F)	180	180	180	180	180
Capacity/Ft. (BTU/Hr)	1320	705	2795	4580	2260
Installed Height (In)	15	13 1/16	37 1/2		
T.C.V. Size					

Notes: 1. Wall-fin zone T.C.V.'s shall be 1/2" unless otherwise indicated
2. Cabinet length shall be as drawn
3. Element length shall be as noted on drawings.

8-1-92: WF-3 IS ORIGINAL DESIGN, NOT AS-BUILT, FOR GREENHOUSE HEATING SYSTEM.

AIR COOLED CONDENSING UNIT SCHEDULE

Symbol		ACCU-1	ACCU-2	ACCU-3	ACCU-4	ACCU-5	ACCU-6
Service		AHU-1	AHU-2	AHU-3	FCU-1	FCU-2	FCU-3
Manufacturer		TRANE	TRANE	TRANE	TRANE	TRANE	TRANE
Model No.		RAUB-C304	BTA120C400M	BTA120C400M	TTB718A	TTB712A	TTB712A
Capacity Total (MBH)		351	92.5	92.5	13.1	8.5	8.5
Ambient Temp. (°F)		95	95	95	95	95	95
Refrigerant Type		22	22	22	22	22	22
Vibration	Type	B	B	B	-----	-----	-----
Isolator	Deflection	.75	.75	.75	-----	-----	-----
EER		10.5	8.7	8.7	8.35	8.8	8.8
No. of Compressors		1	1	1	1	1	1
Stages of Capacity		3	3	3	-----	-----	-----
Hot Gas By-Pass		NO	NO	NO	NO	NO	NO
No. of Circuits		-----	-----	-----	-----	-----	-----

FAN COIL UNIT SCHEDULE

Symbol	FCU-1	FCU-2	FCU-3
Service	DIRECTOR	HORTICULTURE	WORKROOM
Manufacturer	TRANE	TRANE	TRANE
Model No.	TWV718	TWH718	TWH718
Air Flow (CFM)	550	450	450
% Outside Air	7	6	13
Ext. S.P. (In. W.C.)	0.36	0.51	0.51
Motor H.P.	1/4	1/4	1/4
Filter Arrangement	1"	1"	1"

RELIEF FAN SCHEDULE

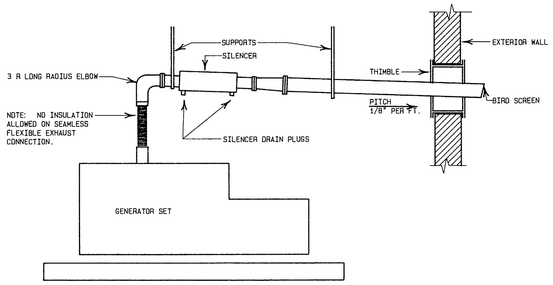
Symbol		RF-1		
Service		AHU-1		
Manufacturer		GREENHECK		
Model No.		PFE-36		
Air Flow (CFM)		11500		
Static Press (In. W.C.)		.250		
Motor H.P.		1 1/2		
Blower RPM		730		
Vibration	Type	-----		
Isolator	Deflection	-----		

EXHAUST FAN SCHEDULE

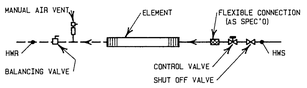
Symbol		EF-1	EF-2	EF-3 THRU 10	EF-11	EF-12		CF-1 THRU 7
Service		TOILET	TOILET	CONSERVATORY	HEADHOUSE	ROOM 40		CONSERVATORY
Manufacturer		GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK		LEADING EDGE
Model No.		DSQ-120-B	GB-14-4	SPN-4B	GB-30-10	SQE-B-24-D		AT-72
Air Flow (CFM)		900	1640	16,500	8000	20D		52,000
Static Press (In. W.C.)		0.250	0.250	0.125	0.125	0.10		-----
Motor H.P.		1/6	1/4	1.0	1	1/80		220 WATTS
Blower RPM		DIRECT	BELT	BELT	BELT	DIRECT		DIRECT
Vibration	Type	-----	-----	-----	-----	-----		-----
Isolator	Deflection	-----	-----	-----	-----	-----		-----

CONVECTOR SCHEDULE

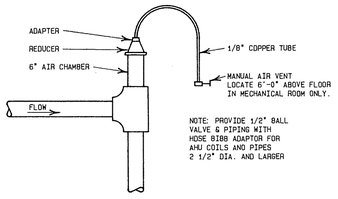
Symbol	C-1	C-2	C-3	C 4 & 5	C-6
Service	WOMEN TOILET	MEN TOILET	RM 25	RM 28	RM 26
Manufacturer	TRANE	TRANE	TRANE	TRANE,	TRANE
Model No.	SK	SK	SK	SK	SK
Mounting	SEMI-RECESSED	SEMI-RECESSED	SEMI-RECESSED	SEMI-RECESSED	SEMI-RECESSED
Recess (IN)	4"	4"	2"	4"	2"
Size (L X H X D)	68X38X6	56X38X6	32X30X4	326X26X6	26X24X4
E.A.T. (°F)	65	65	65	65'	65'
Capacity (MBH)	10.7	8.7	3.2	3.5	2.3
G.P.M.	1.1	.87	.43	.35	.31
E.W.T. (°F)	190	190	190	190	190
T.C.V. Size	1/2	1/2	1/2	1/2	1/2



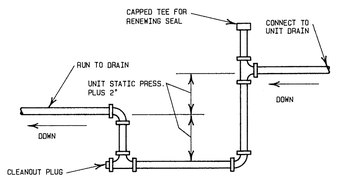
1 H-8 GENERATOR SET EXHAUST CONN. DETAIL
NO SCALE



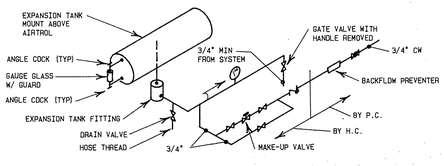
2 H-8 WALL FIN ELEMENT PIPING DETAIL
NO SCALE



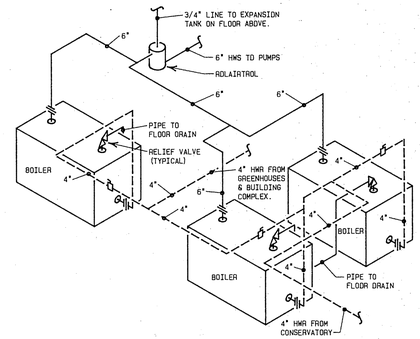
3 H-8 MANUAL AIR VENT
NO SCALE



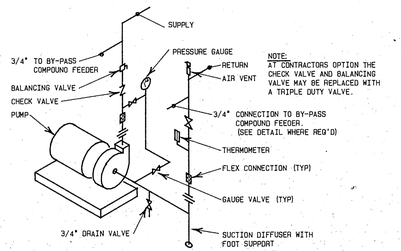
4 H-8 LOOP SEAL FOR COOLING COIL CONDENSATE DRAIN
NO SCALE



5 H-8 EXPANSION TANK DETAIL
NO SCALE



6 H-8 HOT WATER BOILER DETAIL
NO SCALE



7 H-8 BASE MOUNTED PUMP DETAIL
NO SCALE

11-18-88

AS BUILT
AUGUST 1, 1992

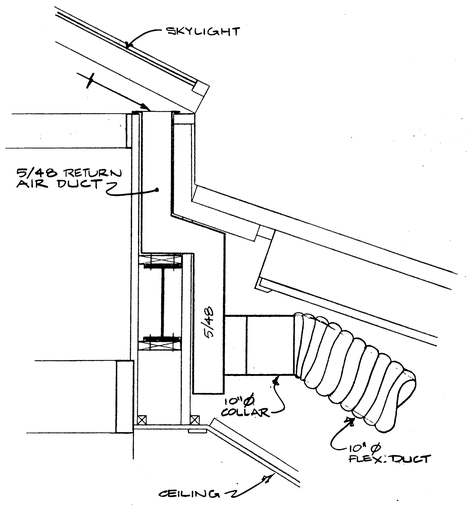
4-14-89: CHANGES MADE TO WF-5 AT WALL FIN SCHEDULE.

ARNOLD & O'SHERIDAN, INC.
CONSULTING ENGINEERS
915 FORWARD DRIVE MADISON, WISCONSIN 53711
608-271-8881 JOB NO. 8748H

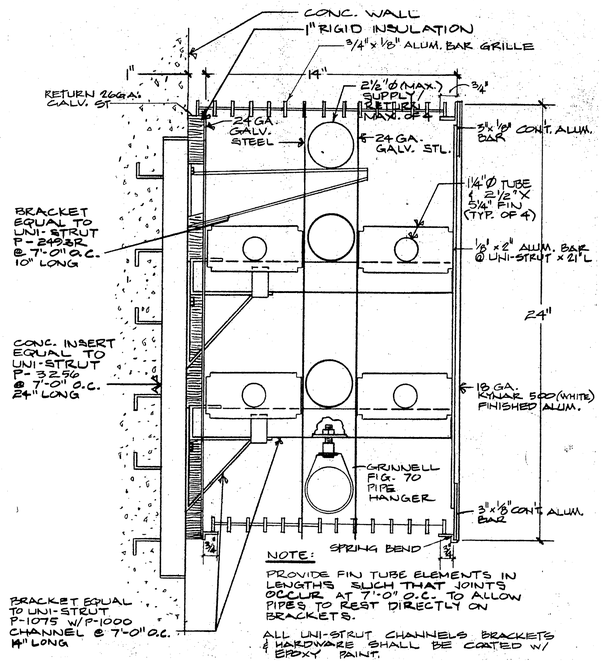
STUART WILLIAM GALLAHER, ARCHITECT, INC.
702 NORTH BLACKHAWK AVENUE • MADISON, WISCONSIN

OLBRICH BOTANICAL COMPLEX

SCHEDULES AND DETAILS.



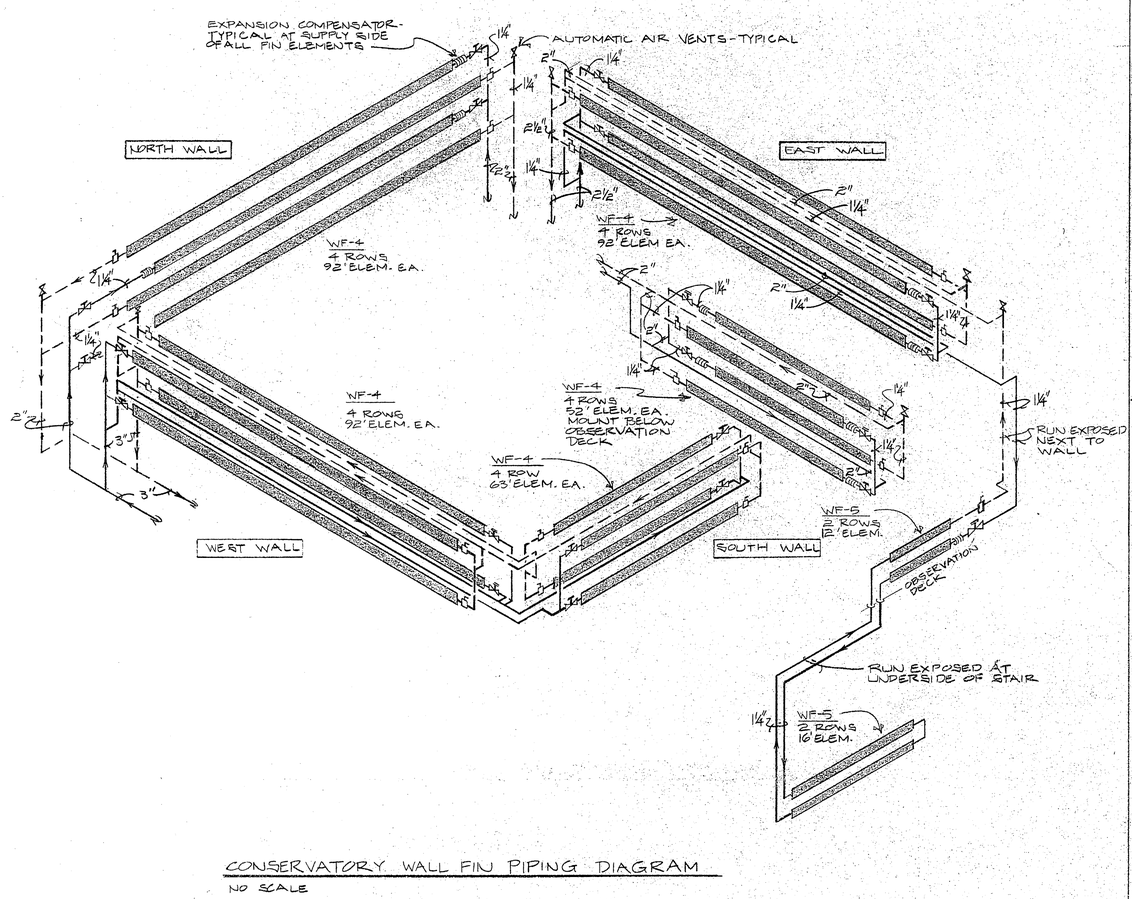
SKYLIGHT RETURN AIR DETAIL
1" = 1'-0"



NOTE:
PROVIDE FIN TUBE ELEMENTS IN LENGTHS SUCH THAT JOINTS OCCUR AT 7'-0" O.C. TO ALLOW PIPES TO REST DIRECTLY ON BRACKETS.

ALL UNI-STRUT CHANNELS BRACKETS & HARDWARE SHALL BE COATED W/ EPOXY PAINT.

SECTION WALL FIN (WF-4) MOUNTING DETAIL
3"= 1'-0"



CONSERVATORY WALL FIN PIPING DIAGRAM
NO SCALE

AS BUILT
AUGUST 1, 1992

ARNOLD & O'SHERIDAN, INC.
CONSULTING ENGINEERS
910 FORWARD DRIVE MADISON, WISCONSIN 53711
608-271-2121 JOB No. 9741BH

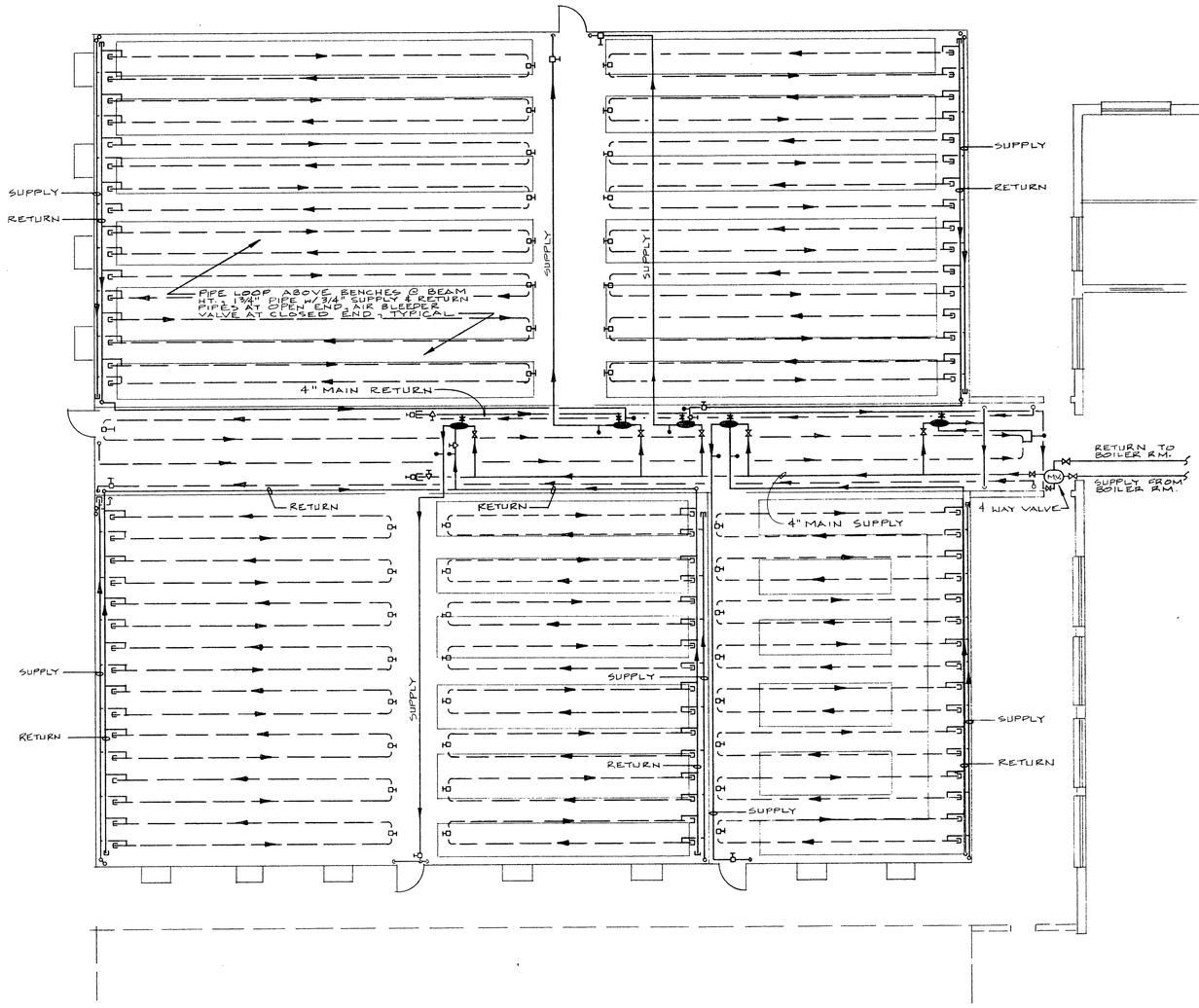
STUART WILLIAM GALLAHER, ARCHITECT, INC.
702 NORTH BLACKHAWK AVENUE • MADISON, WISCONSIN

BOTANICAL COMPLEX

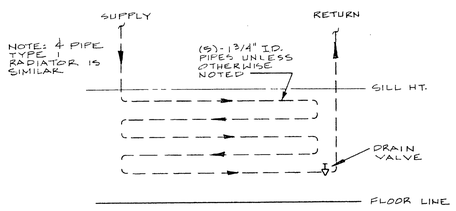
OLBRICH

SECTIONS & DETAILS • CONSERVATORY WALL FIN PIPING RISER DIAGRAM •

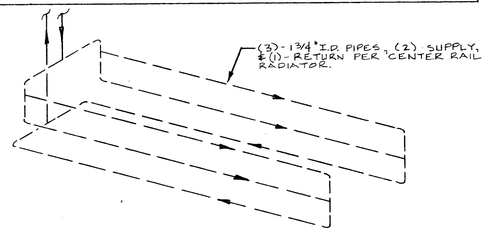
H-9



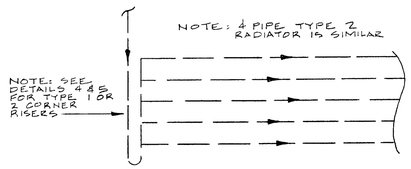
UPPER GREENHOUSE HEATING PLAN (ABOVE 6'-0") SCALE: 1/8"= 1'-0"



1. TYPE 1 WALL RADIATOR NOT TO SCALE

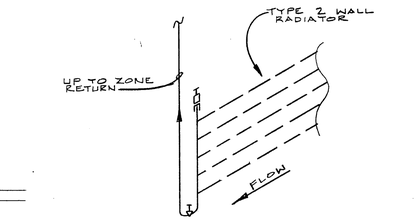


3. CENTER RAIL RADIATOR NOT TO SCALE

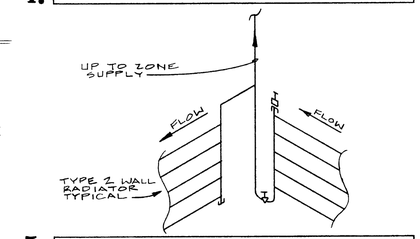


2. TYPE 2 WALL RADIATOR NOT TO SCALE

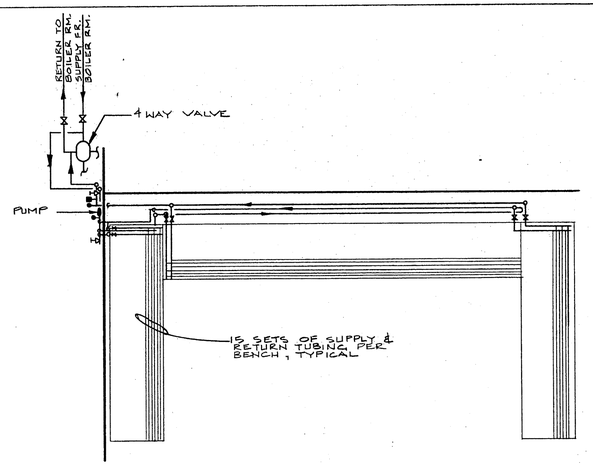
SYMBOLS & ABBREVIATIONS	
	PUMP
M	MAIN VALVE (4-WAY)
	DRAIN VALVE / DRAIN PLUG
	AIR BLEEDER VALVE
	TEMP. GAUGE
	SHUT-OFF VALVE
	PRESSURE GAUGE
	PIPE CAP
	MAIN SUPPLY / RETURN LINES
	HEATING SUPPLY / RETURN LINES
S.V.O.R.	SHUT-OFF VALVE ON RISER



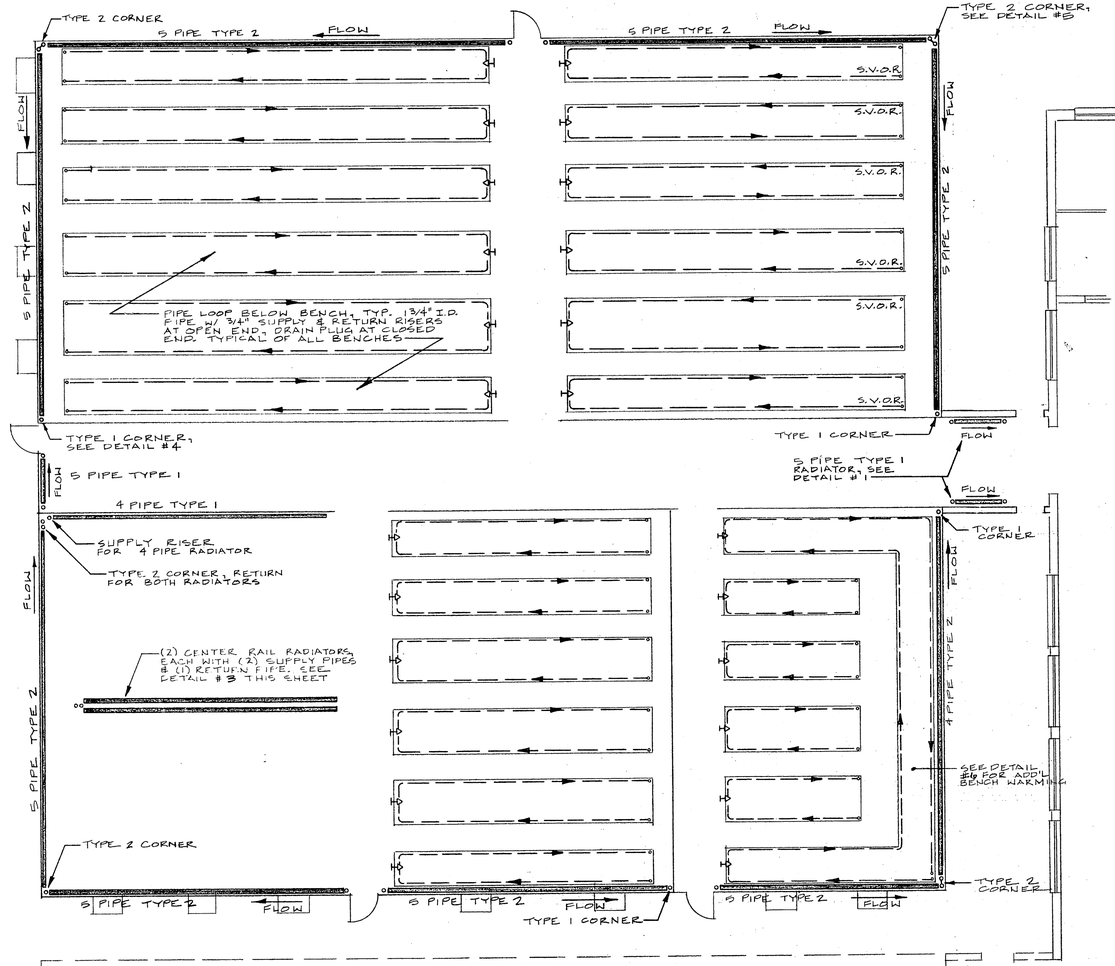
4. TYPE 1 CORNER RISER NOT TO SCALE



5. TYPE 2 CORNER RISER NOT TO SCALE



6. BENCH TUBING DETAIL NOT TO SCALE



AS BUILT
AUGUST 1, 1992

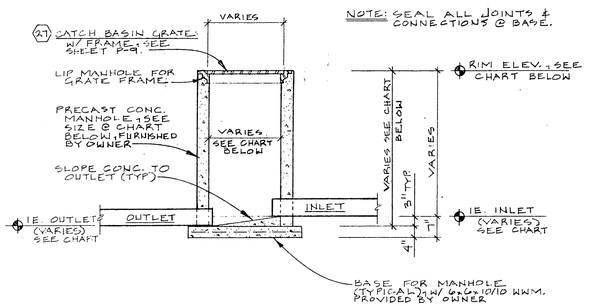
LOWER GREENHOUSE HEATING PLAN (BELOW 6'-0") SCALE: 1/8"= 1'-0"

THIS SHEET IS THE AS-BUILT HEATING INSTALLED BY THE GREENHOUSE MFR., AND IS NOT PART OF A DESIGN BY THE ORIGINAL ARCHITECT OR CONSULTANTS.

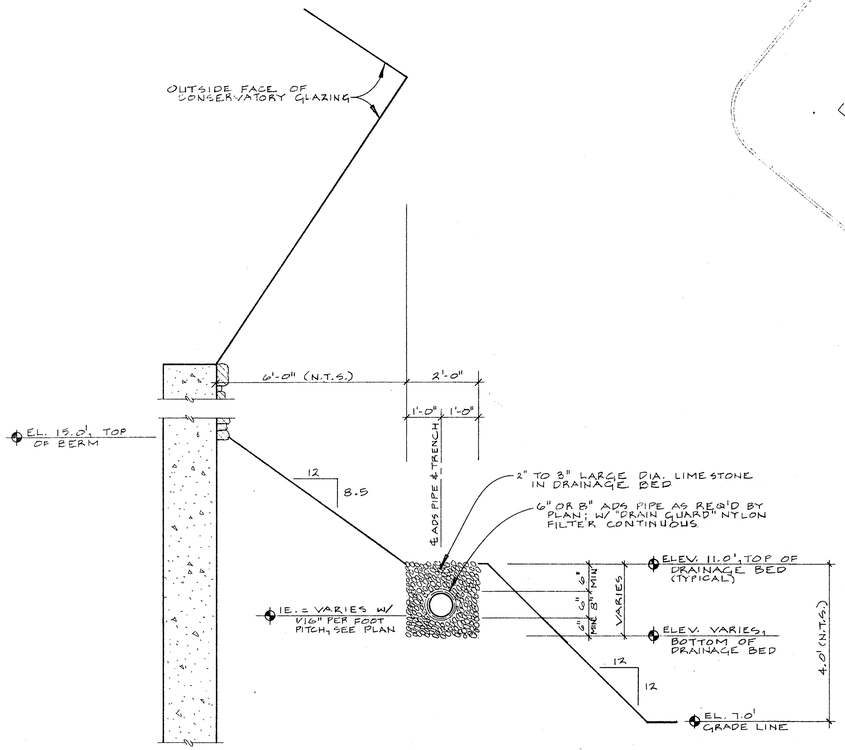
OLBRICH BOTANICAL COMPLEX
3330 ATWOOD AVENUE
MADISON, WISCONSIN

GREENHOUSE HEATING PLANS & DETAILS (AS-BUILT)

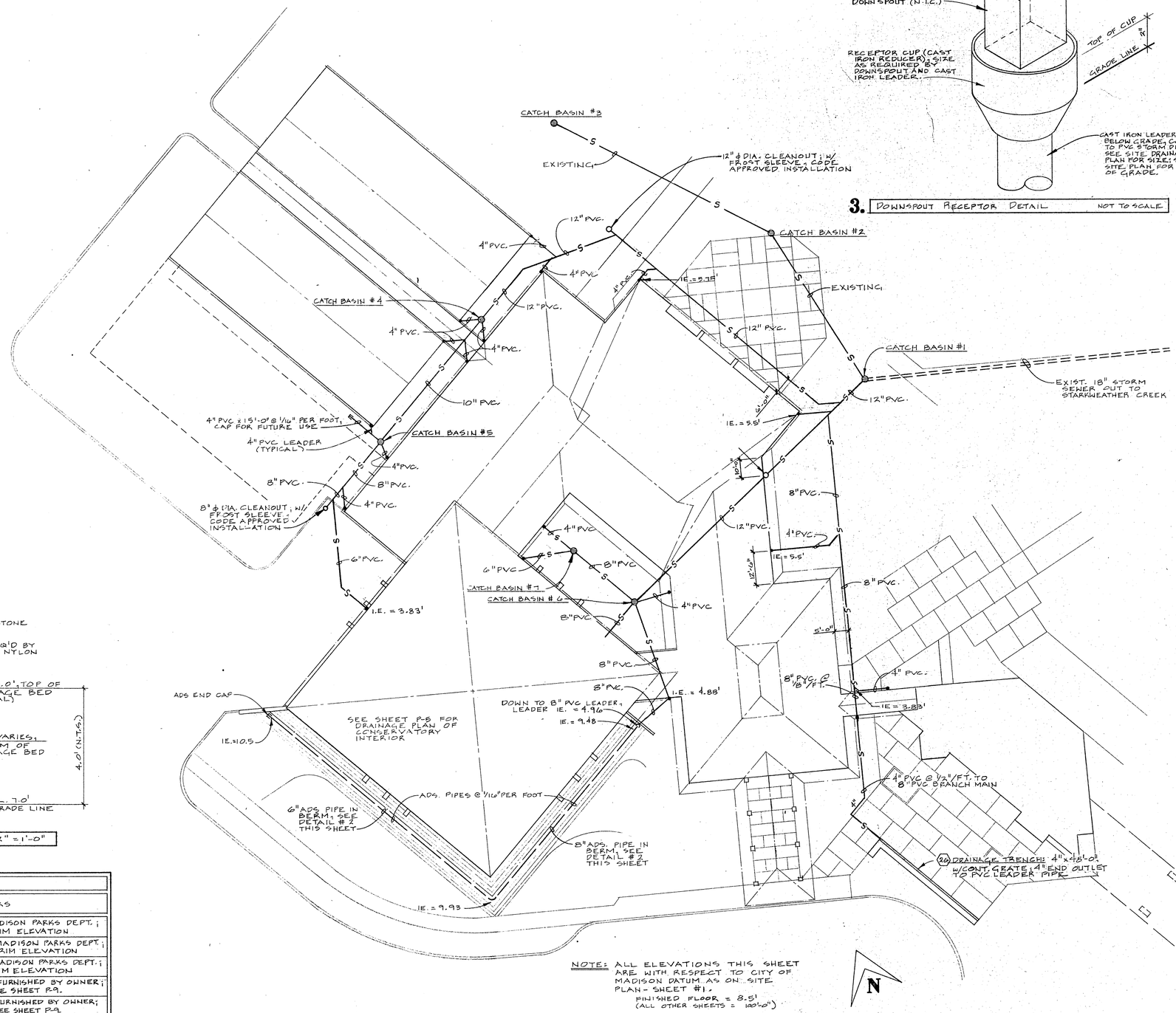
H-10.



1. CATCH BASIN SECTION — NOT TO SCALE

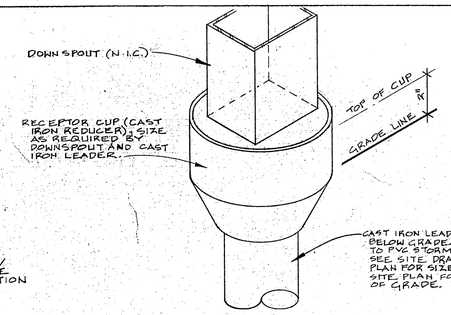


2. CONSERVATORY BERM DRAINAGE DETAIL — SCALE: 1/2" = 1'-0"



NOTE: ALL ELEVATIONS THIS SHEET ARE WITH RESPECT TO CITY OF MADISON DATUM AS ON SITE PLAN - SHEET #1.
FINISHED FLOOR = 8.5'
(ALL OTHER SHEETS = 100'-0")

SITE DRAINAGE PLAN — SCALE: 1" = 20'



3. DOWNSPOUT RECEPTOR DETAIL — NOT TO SCALE

CATCH BASIN DATA TABLE

C.B. No.	SIZE	RIM ELEVATION	OUTLET DATA	INLET DATA	DIRECTION - PIPE SIZE / INVERT ELEV. (I.E.)			REMARKS
1	EXISTING	NEW BY CITY	E - 18" / 2.64	N - 6" / 2.89	W-12" / 2.89	NW-12" / 2.89		ALL WORK BY CITY OF MADISON PARKS DEPT.; EXTEND MH. TO NEW RIM ELEVATION
2	EXISTING	NEW BY CITY	S - 6" / 3.59	NW-6" / 3.82				ALL WORK BY CITY OF MADISON PARKS DEPT.; EXTEND MH. TO NEW RIM ELEVATION
3	EXISTING	NEW BY CITY	SE-6" / 4.18					ALL WORK BY CITY OF MADISON PARKS DEPT.; EXTEND MH. TO NEW RIM ELEVATION
4	36" ø I.D. x 2'-11 3/4"	8.00	NE-12" / 5.83	NW-4" / 5.68	SW-10" / 5.58	S-4" / 5.58		PRECAST CONC. MANHOLE FURNISHED BY OWNER; (21) C.B. GRATE W/FRAME, SEE SHEET P-9.
5	36" ø I.D. x 2'-1 1/2"	8.00	NE-10" / 6.19	NW-4" / 6.44	SW-8" / 6.44	S-4" / 6.44		PRECAST CONC. MANHOLE FURNISHED BY OWNER; (21) C.B. GRATE W/FRAME, SEE SHEET P-9.
6	48" ø I.D. x 4'-2"	8.30	NE-12" / 4.14	NW-8" / 4.39	SW-8" / 4.39	S-8" / 4.39	E-4" / 4.39	PRECAST CONC. MANHOLE FURNISHED BY OWNER; (21) C.B. GRATE W/FRAME, SEE SHEET P-9.
7	36" ø I.D. x 3'-7 1/4"	8.30	SE-8" / 4.70	W-6" / 4.99	NW-4" / 4.99			PRECAST CONC. MANHOLE FURNISHED BY OWNER; (21) CB GRATE W/FRAME, SEE SHEET P-9.

AS BUILT
AUGUST 1, 1992

6-9-89: CHANGES TO CATCH BASIN DATA TABLE (RIM ELEV. OF CB # 4 & #5).
5-8-89: CHANGES MADE TO TYPICAL LEADER AT DETAIL #3.
4-14-89: CHANGES TO CATCH BASIN DATA TABLE, AND DETAIL #1.
12-12-88: CHANGE STORM SEWER SIZE BETWEEN NEW COMPLEX AND EXISTING BUILDING TO 8" PVC.

11-18-88

STUART WILLIAM GALLAHER, ARCHITECT, INC.
702 NORTH BLACKHAWK AVENUE • MADISON, WISCONSIN

OLBRICH BOTANICAL COMPLEX
3330 ATWOOD AVENUE
MADISON, WISCONSIN

SITE DRAINAGE PLAN • CATCH BASIN DATA TABLE • SITE DRAINAGE DETAILS •

P-1.

PLUMBING SYMBOLS

———	COLD WATER (CW.) (HARD)	O—H	HOSE BIBB (HB.)	WC.	WATER CLOSET
———	HOT WATER (HW.) (SOFT) (140°F)	O—H	CLEANOUT ON STACK	UR.	URINAL
———	RETURN HOT WATER (RHW.) (140°F ±)	O——	PIPING 'UP'	SK.	SINK
———	VENT (V)	——O	PIPING 'DOWN'	WH.	WATER HEATER
———	WASTE (W)/SANITARY - EXISTING	AC.	ABOVE CEILING	WS	WATER SOFTENER
———	WASTE (W)/SANITARY - NEW	AF.	ABOVE FLOOR	DW.	DISH WASHER
— — —	WASTE/SANITARY TO BE REMOVED	VTR.	VENT THRU ROOF	EWC.	ELECTRIC WATER COOLER
— — —	PIPING TO BE REMOVED	UG.	UNDERGROUND	FWG.	FOOD WASTE GRINDER
-C- - -C-	CHEMICAL VENT (CV)	BF.	BELOW FLOOR	FDN.	FOUNDATION (WALL)
—ST.—	STORM SEWER	VB.	VACUUM BREAKER	SI.	SAND INTERCEPTOR
—M—	MIXED WATER (M) (HARD) (70°F)	P&T	PRESSURE & TEMPERATURE (RELIEF VALVE)	TD.	TRENCH DRAIN
—RO—	REVERSE OSMOSIS (RO.) (70°F)	FCO.	FLOOR CLEAN OUT	NIC.	NOT IN CONTRACT
—SC—	SOFT COLD WATER (SCW)	WCO.	WALL CLEAN OUT		
—H—	HUMIDITY/MIST	FC.	FLUSH COVER (ON CLEAN OUTS)	SFU.	SUPPLY FIXTURE UNITS
—M—	BALL VALVE	FD.	FLOOR DRAIN	DFU.	DRAINAGE FIXTURE UNITS
—⊗—	GLOBE VALVE	IWD.	INDIRECT WASTE DRAIN	✳	PIPE MARKER LIST LOCATION
—(P)—	PUMP	═══	EXIST. STORM DRAIN	—D—	DRAIN WASTE (@WATER FALL)
—E—	CAP	—S—	PVC STORM DRAIN	—S—	CIRCULATING SUPPLY (@ WATER FALL)
—N—	BACKFLOW PREVENTER (SEE PLANS, DETAILS, & RISERS FOR TYPE)	—4"—	ABS DRAIN PIPE	—R—	CIRCULATING RETURN (@ WATER FALL)
		•	DOWNSPOUT ADAPTER	—PCW—	PLANT COLD WATER

SEE GREENHOUSE P.B.C. FLOOR PLAN SHEET P.B

NORK ROOM 34

HORTICULTURIST 35

PLANT SPECIALIST 36

STORAGE 33

MULTI-PURPOSE ROOM 12

(30) HOSE BIBB: 3/4" PCW. w/VB.

3/4" PCW. AC.

3/4" C.W. AC. (11'-0" AFF.)

4" CO. w/ HEAVY DUTY FLUSH COVER

4" FD. w/ 1½" V. FOR AIR COND. & FUTURE COOLER CONDENSATE.

NOTE: VALVE LOCATIONS ONLY SHOWN IN ROOMS 18, 19, 25, 26, 28, & 29. SEE COMPLETE PLUMBING PLANS & RISERS IN DETAILS ON SHEET P-5.

FUTURE WALK-IN COOLER

TOILET 25a

WOMEN'S LOCKERS 25

STORAGE 20

KITCHEN 19

JANITOR RM. 18

COAT ROOM 13

OFFICE 15

OFFICE 17

OFFICE 16

MENS LOCKERS 28

TOILET 26

XEROX RM.

CORRIDOR 14

4" W. DOWN FROM FD. w/ V.V. AC.

4" W. STACK w/ C.O.

BOILER ROOM 30

SECRETARY 21

DIRECTOR 22

2½" CW., 3/4" HW., 1" HWR. AC.

2½" CW., 3/4" HW., 3/4" HWR. ABOVE CEILING

19" OFF INSIDE FACE OF WALL

COURTYARD

SEE SHEET P-1 FOR DRAINAGE PLAN

(28) HOSE BIBB: 3/4" CW., FROST PROOF, w/ V.B. & INSIDE BRANCH SHUT-OFF

VESTIBULE 9

LIBRARY 10

FOYER 2

E.J.C. CAP = 3'-4" B.F.F.

FUTURE TEA RM SHUT-OFF VALVES

(80) 3/4" C.W.
(84) 3/4" HW.
(81) 3/4" HWR.

(78) HOSE BIBB: 3/4" C.W., FROST PROOF, w/ V.B. & INSIDE BRANCH SHUT-OFF

3/4" CW., 3/4" HW., 3/4" HWR. ABOVE CEILING FOR FUTURE TEA ROOM

4" FCO w/ FC

4" W. CAP BEYOND FDN. WALL FOR FUTURE TEA ROOM.

2½" CW., 3/4" HW., & 3/4" EHW. ABOVE CLG. PIPE AROUND SKY LIGHT & PLANK CLG. SEE PLAN SHEET No. 5

3" MAIN V. AC. & 5" V.T.R.

EXIST. 6" SAN. SEWER REMOVED

44'-10" TO EXIST. BLDG. CORNER

CP 31'-10" FROM BOX + 33'-2" TO EXIST. BLDG.

CP 21'-3" FROM BLDG.

NEW 4" SAN.

3/4" CW. ABOVE CEILING CAPPED W/ SHUT-OFF VALVE (84)

1¼" CW. AC.

CORRIDOR 3

EXISTING CW. SUPPLY CAPPED BEYOND EXISTING BUILDING SIDEWALK

EXIST. 6" SAN. SEWER TO REMAIN

NOTE: SEE SHEET P-4 FOR ENLARGED PLAN OF TOILET ROOMS.

WOMEN 4

MEN 5

NEW 4" SAN. SEWER

4" WCO w/FC & 3" MAIN VENT UP TO & ABOVE CEILING

EXIST. 6" SAN. SEWER TO REMAIN

RECEPTION 7

OFFICE 8

GIFT SHOP 6

VESTIBULE 1

4" FD. BELOW VESTIBULE DRAINAGE MAT

(26) HOSE BIBB: 3/4" CW., FROST PROOF, w/ V.B., & INSIDE BRANCH SHUT-OFF

BELOW FLOOR

10'± A.F.F.

DRAIN COCK @ BOTTOM OF M (70°) RISER

VALVE BOX # 4:
(30) 1½" F SW.
(31) 2" F
(32) 1" RO.

1½" COPPER PCW., 2" COPPER E PVC RO. ALL 120" BELOW FINISHED FLOOR. ACTUAL PIPING ORDER IS UNKNOWN FOR THIS RUN OF PIPES

1¼" M (70°) LIF & ALONG ROOF EQUIPMENT B-11 FOR CONT.

12" W. CONT. COVERS AS SHOWN

SEDIMENT BUCKET, TOP OF C.O. TO BE 1" ± BELOW TOP OF F.D.; w/ 3/4" W. & 1½" V. UG.

TRENCH DRAIN: 6" DEEP x 12" WIDE FROM FLOOR DRAINS TO FLOOR CASTLE IN FLOOR LINE OF T.D.

FLOOR DRAIN: w/ SEDIMENT BUCKET, TOP OF F.D. 1" ± BELOW TOP OF FLOOR

HOSE BIBB: 3/4" CW. w/ V.B.

PLANT SINK: 1½" PCW. & 1¼" M (70°)

6'-6" @ 6'-0" OC.

4" FCO w/ FC.

4" W. STUBBED OUT & CAPPED 2'-0" FROM WALL FOR FUTURE GREENHOUSE. I.E. = EL. 90'-9"

1½" PCW., 1" F & 1" RO STUBBED OUT TO EXTERIOR FACE OF FDN. 12" BELOW FLOOR

HEADHOUSE 31

4" W.

VALVE BOX # 3:
(27) 1½" PCW.
(28) 1" F
(29) 1" RO.

SIGNS 34

1¼" A.F.

3/4" HW.
1¼" PCW.

4" FD.

1½" AC. TO 3" MAIN V.

2" W.

2" FD.

VALVE BOX # 2:
(24) 1¼" PCW.
(22) 3/4" HW.
(20) 3/4" HWR.

CHEMICAL ROOM 40

NOTE #1: ORIGINAL 1¼" PCW TO EMER. SHOWER IS CAPPED @ HEADHOUSE SIDE OF WALL ABOVE SHOWER

2" V. FROM SUMP, UG.

3" MAIN VENT UP & 5" V.T.R.

6" SANITARY SEWER TO MANHOLE - SEE SITE PLAN SHEET #1

3" MAIN V. UG.

6" FCO w/ FLUSH HEAVY DUTY COVER

SEE SHT. P-11 FOR AS-BUILT M (70°) w/ FI SUPPLY

7'-1"

4" W. STACK w/ C.O.

BOILER ROOM 30

1½" V. UG.

4" FD.

1½" UG.

4" W. STACK w/ C.O.

(42) 1" HWR.

4" FD.

SEE UPPER MECH. RM. PLAN SHT. P-5 FOR CONT. & P.I.R.

SEE SHT. P-12 FOR CONT.

VALVE CHART

SEE AS-BUILT PLANS & DETAILS ON SHEET P-12. FOR:
- BOILER RM. RISER
- RO SUPPLY SYSTEM & RISER

STORAGE RM. 42

VALVE BOX # 1:
(21) 1" F
(22) 3/4" PCW.
(23) 3/4" RO.

HALL 41

CONSERVATORY 11

SEE SHEET P-5 FOR DRAINAGE PLAN

SEE SHEET P-6 FOR PLUMBING PLAN

MECHANICAL RM. 43

SEE SHEET P-6 & P-11

(17) EMERGENCY SHOWER & EYE WASH: 1¼" SCW. SUPPLY TO UNIT; ½" SCW SUPPLY TO EYE WASH (INTEGRAL w/ UNIT); SCW & SHUT-OFF VALVE LOCATED IN UPPER MECHANICAL ROOM; SEE DETAIL #2 ON SHEET P-3
(18) 1¼" SCW.

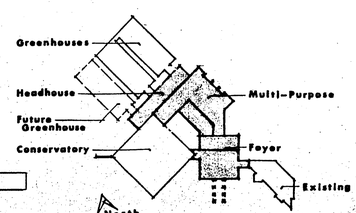
(18) CHEMICAL SINK: ½" PCW., ½" HW., w/ BACKFLOW PREVENTERS; 2" W. TO CHEMICAL SUMP, 1¼" CHEMICAL VENT UP TO ABOVE CLG.

(19) CHEMICAL SUMP: w/ 24" Ø DIA. FLUSH COVER; 28" CLEARANCE ABOVE COVER REQUIRED; w/ 2" W. FROM FD. & 2" W. FROM CHEMICAL SINK; 2" W. OUT, w/ 1½" V. AS SHOWN.

N

MAIN COMPLEX - PLUMBING FLOOR PLAN

SCALE: ⅛" = 1'-0"



AS BUILT
AUGUST 1, 1992

6-9-87: ADD PLUMBING CHAGE BETWEEN TOILET ROOMS #4 AND #5; CHANGE TO CHEMICAL VENTING; CHANGE TO CW/ADD PCW PIPING FROM CONSERVATORY; REMOVE BACKFLOW PREVENTER.

5-8-89: ADD VENT TO 4" FD. NEAR WATER HEATER IN BOILER ROOM; ADD BACKFLOW PREVENTER & CW SUPPLY. SEE SHEETS P-3 & P-6

4-14-89: CHANGE TO "FBO" & SYMBOLS LIST; ADD ELECTRIC WATER COOLER TO WEST OF BOILER/HEADHOUSE DOORWAY; EQUIPMENT "FURNISHED BY OWNER" (42): MOVE PIPE I.D. LIST @ BOILER RM.

12-12-88: CHANGES MADE TO WATER SUPPLY PIPE SIZES THROUGHOUT THIS SHEET

11-18-88

STUART WILLIAM GALLAHER, ARCHITECT, INC.
702 NORTH BLACKHAWK AVENUE • MADISON, WISCONSIN

OLBRICH BOTANICAL COMPLEX
3330 ATWOOD AVENUE
MADISON, WISCONSIN

MAIN COMPLEX - PLUMBING FLOOR PLAN • PLUMBING SYMBOLS •

P-2.

NOTE: FIXTURES ARE AS DESIGNED ONLY & MAY OR MAY NOT BE AS INSTALLED.

(42) WATER HEATER: 1½" SUPPLY IN, 1½" 140° HW. OUT & UP TO STORAGE TANK; W/ P&T RELIEF VALVE TO 4" FD.

(43) HW. STORAGE TANK: 120 GAL. CAP.; 1½" HW. IN, 1½" HW. OUT; ¾" RHW. DRAW-OFF; W/ P&T RELIEF VALVE TO 4" FD.

(44) HW. CIRCULATION PUMP: 2½" HW. IN/OUT; ALL BRONZE CONSTR.; ¼ HP., 115 V.

(45) MIXING VALVE: 1" SCW @ 5.6 GPM. IN, 1" HW. 140° @ 2.4 GPM IN; 1" TEMPERED SCW. (70°) @ 8.0 GPM OUT.

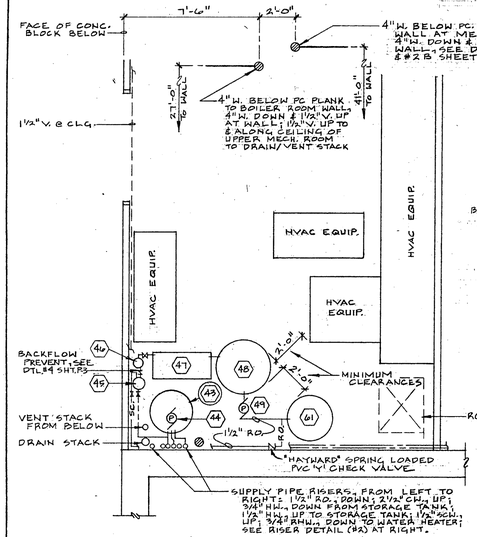
(46) CARBON FILTER: 1" TEMPERED SCW. (70°) IN/OUT @ 8.0 GPM FLOW, FOR CHLORINE REMOVAL.

(47) REVERSE OSMOSIS UNIT: ¾" TEMPERED SCW (70°) IN, ⅜" RO. OUT TO RO. STORAGE TANK, ½" W. CONCENTRATE TO 4" FD. VIA AIR GAP. (ALL RO. = PVC.)

(48) RO. STORAGE TANK: ALL PLASTIC, 300 GAL. CAP.; ⅜" RO. PVC. IN, 1½" RO. PVC. OUT TO PUMP.

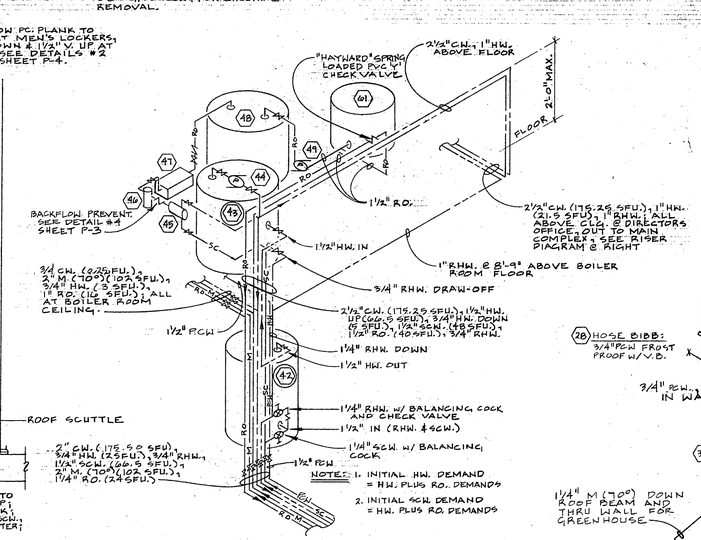
(49) R.O. PUMP: 1½" RO. PVC IN/OUT, INTERCONNECT W/ PRESSURE SWITCH & PRESSURE TANK; ON @ 45 PSI, OFF @ 60 PSI, MINIMUM RUN TIME = 1.5 MIN.

(61) PRESSURE TANK: 211 GAL. CAP. W/ POLYPROPYLENE LINER, PRESSURE SWITCH/GAUGE, W/ 45/60 OPERATING PRESSURE, PRESSURE-RELIEF VALVE, AND DRAIN VALVE.



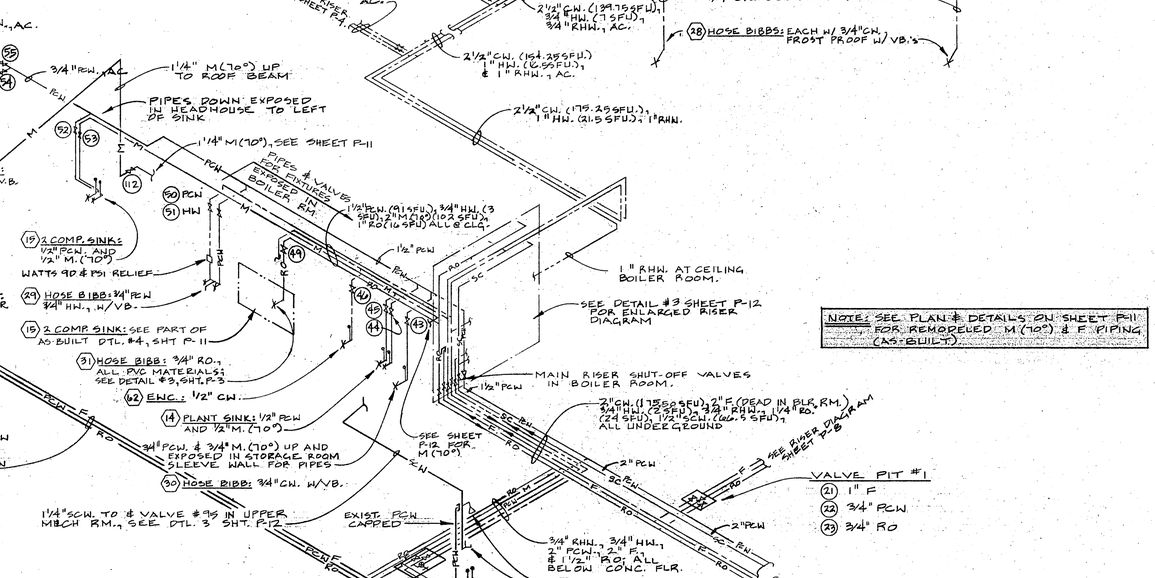
1. UPPER MECHANICAL RM. PLUMBING FLOOR PLAN ¼"=1'-0"

NOTE: RO & HW. SUPPLY SYSTEM IS AS DESIGNED, SEE DETAILS 1 & 2 SHEET P-12 FOR AS-BUILT.

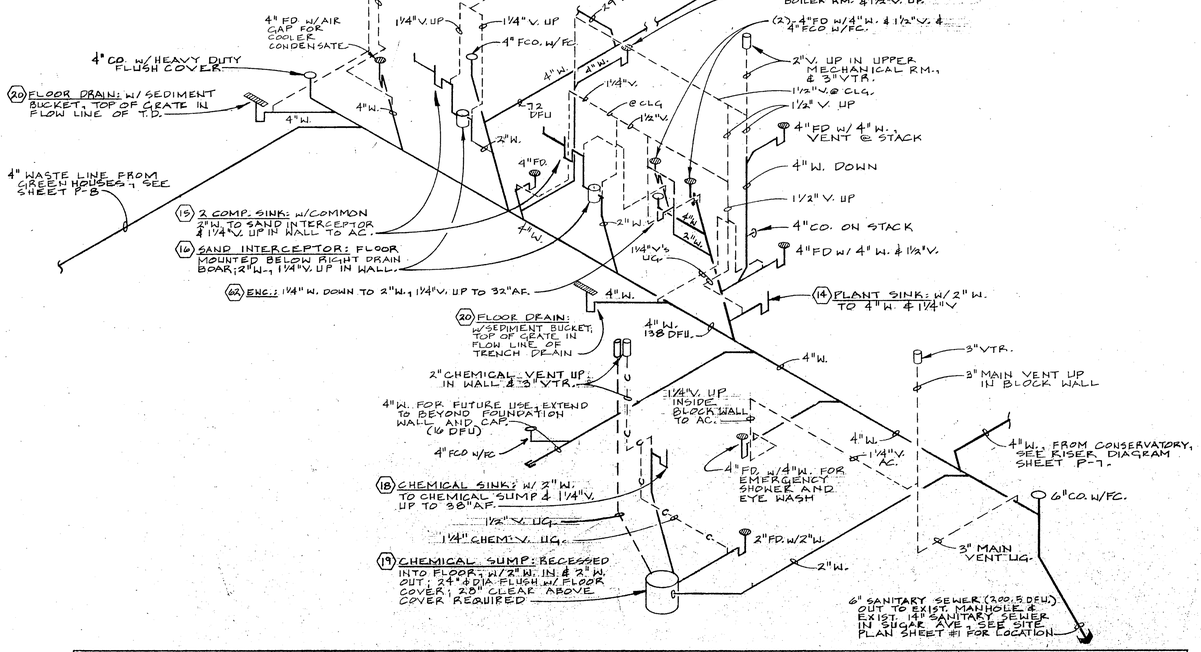


2. ENLARGED RISER DETAIL NTS.

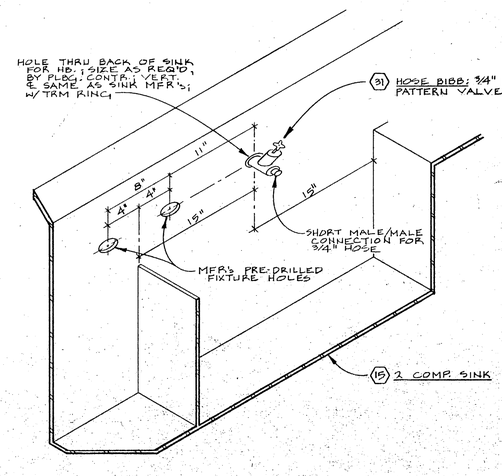
NOTE: DETAIL 2 IS AS DESIGNED, SEE DETAIL 3, SHEET P-12 FOR AS-BUILT RISER DIAGRAM.



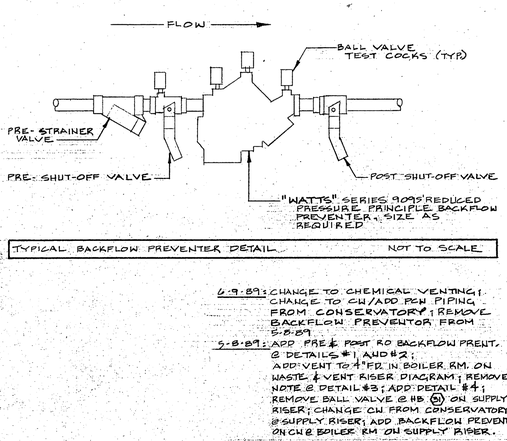
MAIN COMPLEX - SUPPLY RISER DIAGRAM NOT TO SCALE



MAIN WASTE AND VENT RISER DIAGRAM NOT TO SCALE



3. RO. HOSE BIBB DETAIL @ SINK 1½"=1'-0"



4. TYPICAL BACKFLOW PREVENTER DETAIL NOT TO SCALE

AS BUILT
AUGUST 1, 1992

6-9-89: CHANGE TO CHEMICAL VENTING; CHANGE TO CW/ADD RCW PIPING FROM CONSERVATORY; REMOVE BACKFLOW PREVENTOR FROM 5-8-89

5-8-89: ADD PRE & POST RO BACKFLOW PRVNT. @ DETAILS #1 AND #2; ADD VENT TO 4" FD. IN BOILER RM. ON WASTE & VENT RISER DIAGRAM; REMOVE NOTE @ DETAIL #3; ADD DETAIL #4; REMOVE BALL VALVE @ HB (31) ON SUPPLY RISER; CHANGE CW FROM CONSERVATORY @ SUPPLY RISER; ADD BACKFLOW PREVENT ON CW @ BOILER RM ON SUPPLY RIPER.

4-14-89: DETAILS #1 & #2 COMPLETELY REVISED; ADD (1) 4" FD W/ VENT TO WASTE RISER DIAGRAM @ UPPER MECHANICAL ROOM; ADD (20) ENG. TO BOTH RISER DIAGRAMS.

12-12-88: CHANGES MADE TO WATER SUPPLY PIPE SIZES THROUGHOUT THIS SHEET.

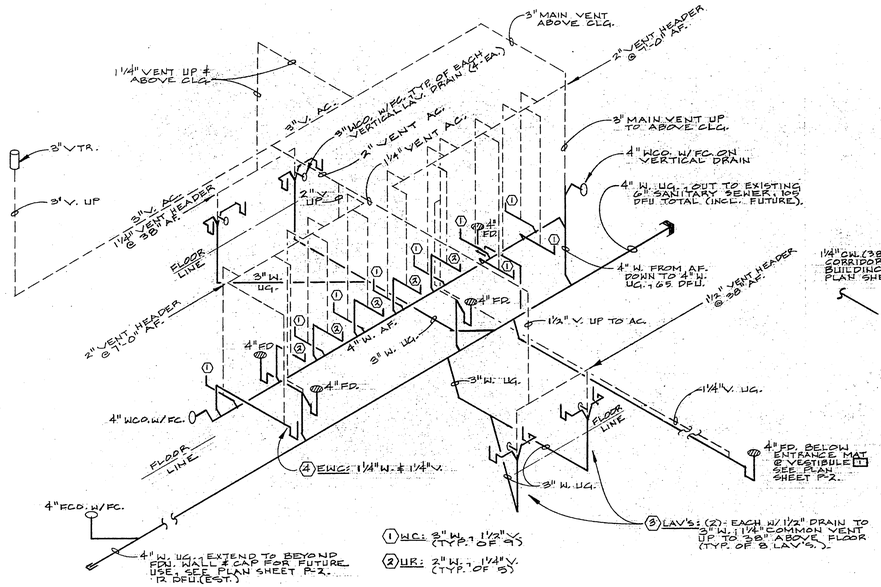
11-18-88

BOTANICAL COMPLEX
STUART WILLIAM GALLAHER, ARF
702 NORTH BLACKHAWK AVENUE
MADISON, WISCONSIN

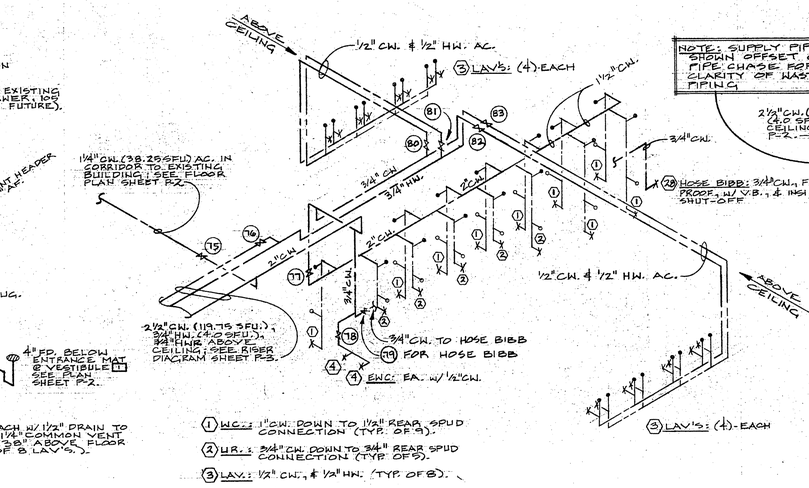
OLBRICH
2330 ATWOOD AVENUE

MAIN SUPPLY RISER DIAGRAM • MAIN WASTE & VENT RISER DIAGRAM • UPPER MECH. RM. PLBG. FLOOR PLAN • PLUMBING DETAILS.

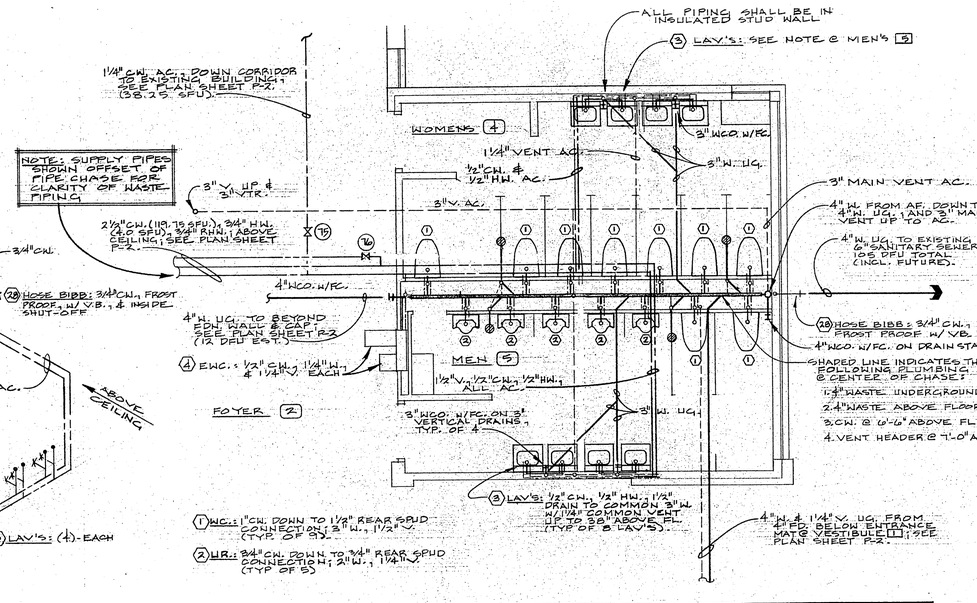
P-3.



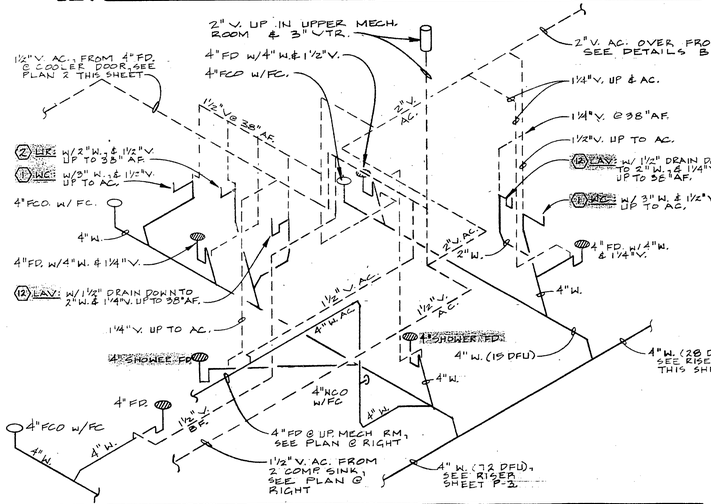
1B. MEN/WOMEN WASTE & VENT RISER DIAGRAM — NOT TO SCALE



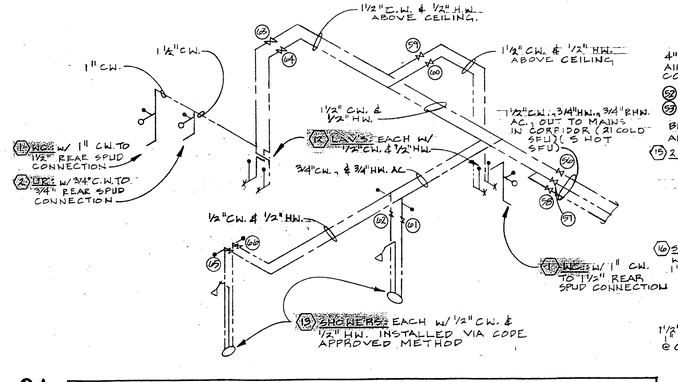
1A. MEN/WOMEN SUPPLY RISER DIAGRAM — NOT TO SCALE



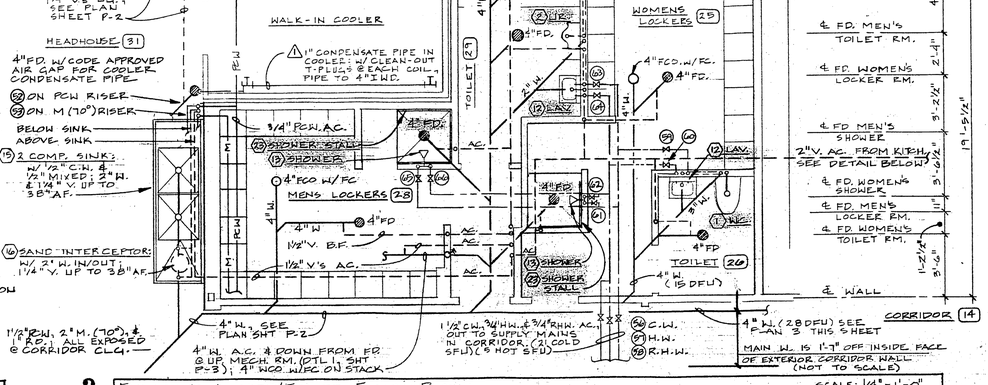
1. ENLARGED MEN/WOMEN FLOOR PLAN — SCALE: ¼" = 1'-0"



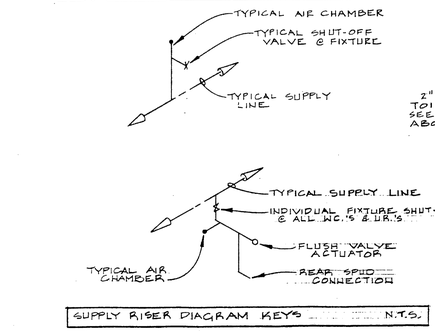
2B. LOCKER/TOILET WASTE & VENT RISER DIAGRAM — NOT TO SCALE



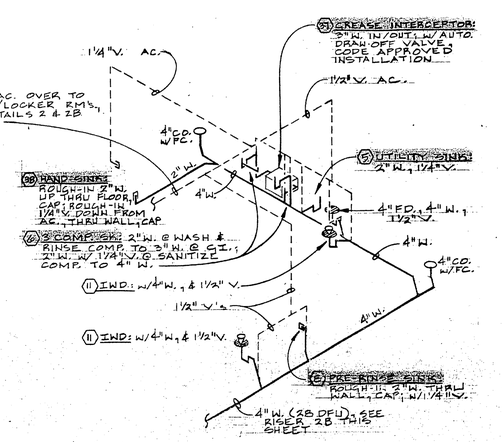
2A. LOCKER/TOILET SUPPLY RISER DIAGRAM — NOT TO SCALE



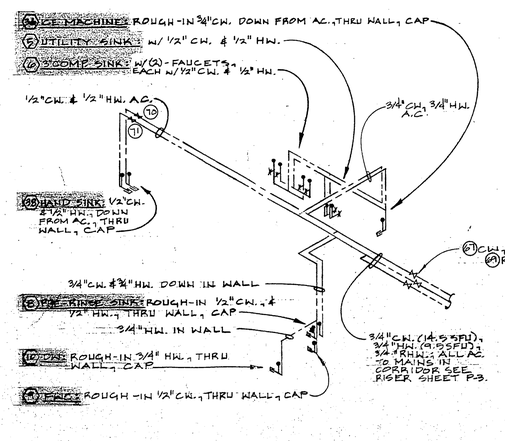
2. ENLARGED LOCKER/TOILET FLOOR PLAN — SCALE: ¼" = 1'-0"



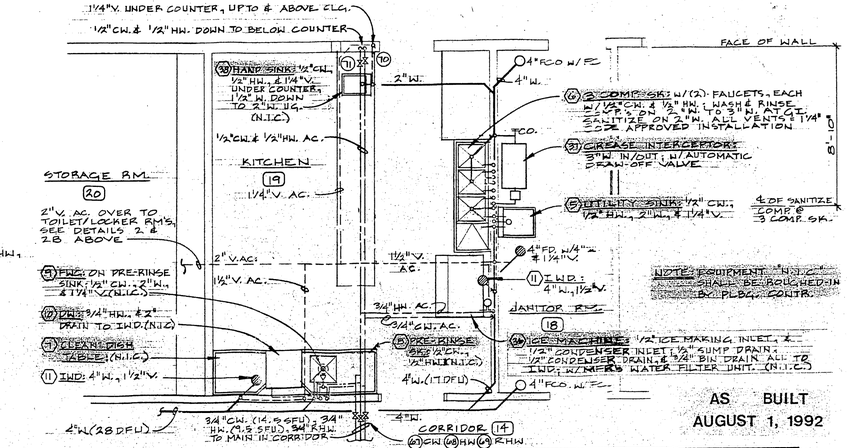
SUPPLY RISER DIAGRAM KEYS — N.T.S.



3B. KITCHEN/JANITOR WASTE & VENT RISER — N.T.S.



3A. KITCHEN/JANITOR SUPPLY RISER DIAGRAM — N.T.S.



3. ENLARGED KITCHEN/JANITOR FLOOR PLAN — SCALE: ¼" = 1'-0"

11.18.88

6.9.89: REVISED DTL'S #1, 1A, & 1B; PIPE SIZE CHANGES @ DTL # 2A.; N.I.C. CHANGES

4.14.89: ADD 4" FD @ DTL. 2B & 4" DRAIN STACK @ DTL'S 2 & 2B

12.12.88: CHANGES MADE TO WATER SUPPLY PIPE SIZES THROUGHOUT THIS SHEET.

STUART WILLIAM GALLAHER, ARCHITECT, INC.
MADISON, WISCONSIN
702 NORTH BLACKHAWK AVENUE

OLBRICH BOTANICAL COMPLEX

3330 ATWOOD AVENUE

MADISON, WISCONSIN

ENLARGED PLUMBING FLOOR PLANS • RISER DIAGRAMS FOR ENLARGED FLOOR PLANS.

P-4.

HEADHOUSE (31)

BOILER ROOM (30)

DIRECTORS OFFICE (22)

STORAGE RM. (42)

HALL (41)

MECHANICAL RM. (43)

COURTYARD

CONSERVATORY (11)

CATCH BASIN #7

8" PVC STORM SEWER

SEE SITE DRAINAGE PLAN, SHEET P-1

12" PVC STORM SEWER

CATCH BASIN #6

8" PVC STORM SEWER

PVC LEADERS FROM EACH ADS PIPE TO C.O.

8" PVC CLEANOUT W/ REMOVABLE CAP @ INTERIOR GRADE; W/ 8" PVC 'P' TRAP; ELEV. OF FLOWLINE AFTER TRAP = 95.89'

SURFACE OF WATER ⌖ 108.7'

4" DRAIN PLUG W/ RECESSED GRATE; TO 4" PVC DRAINAGE PIPE - SEE LOWER LEVEL DRAINAGE PLAN; COVER FLUSH @ EL. 108.33'

6" ADS CO. DOWN TO 6" ADS PIPE @ TOP OF FTG.

4" ADS 60° ELL EACH W/ ⌖ 104.81'

SEE FIRST FLOOR DRAINAGE PLAN FOR CONTINUATION OF 4" ADS DRAIN PIPING

4" PVC. OUT TO SANITARY SEWER MANHOLE (SEE SITE PLAN SHEET #1); FOR CLEAR-WATER WASTE FROM WATERFALL-DURING MAINT SHUT DOWN ONLY

3" VENT FROM C.O. TO VENT TERMINAL; SEE PLAN SHEET P-5

4" C.I. UP TO DRAIN PLUG, SEE UPPER LEVEL DRAINAGE PLAN

4" C.I. @ CLG.

3" V. @ CLG.

4" C.I. DOWN TO RE-ENT LOWER FLOOR SLAB

3" X 4" RED.

4" CO. W/ F.C.B. EL. 96.0'

4" DRAIN PLUG W/ RECESSED GRATE TO 4" PVC DRAINAGE PIPE - PLUG IN LOWER TOUCH COVER; FLUSH @ EL. 95.0'

(53) MANHOLE COVER: ON 36" ⌀ ID x 3'-6" CONC. M.H. - SEE DTL. 2/P-5

(52) INLINE GATE VALVE: MANUAL SHUT-OFF W/ BACK FLOW FLAPPER, W/ EXTENSIONS AS REQ'D - SEE DTL. 2/P-5

OVERFLOW INLET SEE DTL. SHT P-3

4" DRAIN PLUG W/ RECESSED GRATE, DOWN TO 4" PVC. DRAINAGE PIPE; COVER FLUSH @ EL. 99.0'

FLUSH DAM UNDER BRIDGE

SURFACE OF WATER ⌖ 97.0

SEE UPPER LEVEL DRAINAGE PLAN FOR CONTINUATION OF 4" ADS DRAIN PIPING

CONTINUOUS 6" ADS PIPE @ TOP OF FOOTING (TYPICAL)

NOTE: 4" ADS PIPE IS SHOWN AWAY FROM WALL FOR READABILITY OF PLAN ONLY; ACTUAL DIMENSION = 6" FROM WALL TO ℄ OF PIPE.

4" ADS PIPE (TYPICAL), SEE DETAIL 1/P-5

4" CO. ⌖ 101.1'

6" CO. ⌖ 96.0'

AS BUILT
AUGUST 1, 1992

6-9-89: VOID REVISION DTD. 4-14-89

4-14-89: CHANGES MADE TO DETAIL (52) "FURNISHED BY OWNER"

Greenhouses
Headhouse
Future Greenhouse
Conservatory
Multi-Purpose
Foyer
Existing Bldg.
North

N

CONSERVATORY — FIRST FLOOR DRAINAGE PLAN

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

CONSERVATORY — UPPER LEVEL DRAINAGE PLAN

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

REMOVABLE ADS END CAP FOR CLEANOUT; TYP @ ALL 4" & 6" RISERS

6" FROM WALLS (TYPICAL)

2½"

PLANTING BED

TYP. RISER UP TO CLEANOUT

CURB

WALK

2'-0" PLANTING SOIL

1'-0" SAND

COVER BELOW WALKS (TYP.)

6" MIN.

2'-8" (±)

FLOW LINE

TYPICAL 4" ADS DRAIN PIPE SHOWN (ADS SIM'LR) SEE PLANS FOR SPOT ELEVATIONS OF FLOW LINES

FILL SOIL AS REQUIRED

1. DRAINAGE PIPE DETAIL — SCALE: 1" = 1'-0"

(53) MANHOLE COVER

(52) IN-LINE GATE VALVE

6" ADS DRAIN PIPE @ TOP OF FOOTING (TYP.)

⌖ 96.0'

⌖ 90.67

4"

3'-0"

3'-6"

3'-6" ⌀ ID. x 3'-6" CONC. MH. "FURNISHED BY OWNER"

12" EXTENSION

4" PVC.

4" PVC.

8"

INTEGRAL BACKFLOW FLAPPER

GATE VALVE

CONC. MH. BASE, SIZE AS REQ'D

2. WATERFALL GATE VALVE DETAIL — SCALE: 1/2" = 1'-0"

NOTE: DURING NORMAL OPERATION OF WATERFALL & PONDS, GATE VALVE SHALL BE CLOSED. VALVE IS OPENED TO DRAIN WATERFALL & PONDS, AND SHALL BE CLOSED AFTER MAINTENANCE IS COMPLETE, PRIOR TO REFILLING THE WATERFALL & PONDS.

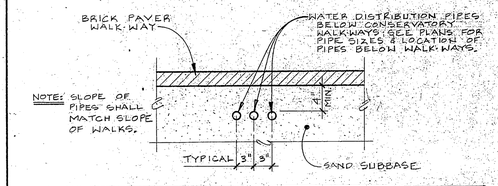
11-18-88

STUART WILLIAM GAILAHER, ARCHITECT, INC.
702 NORTH BLACKHAWK AVENUE • MADISON, WISCONSIN

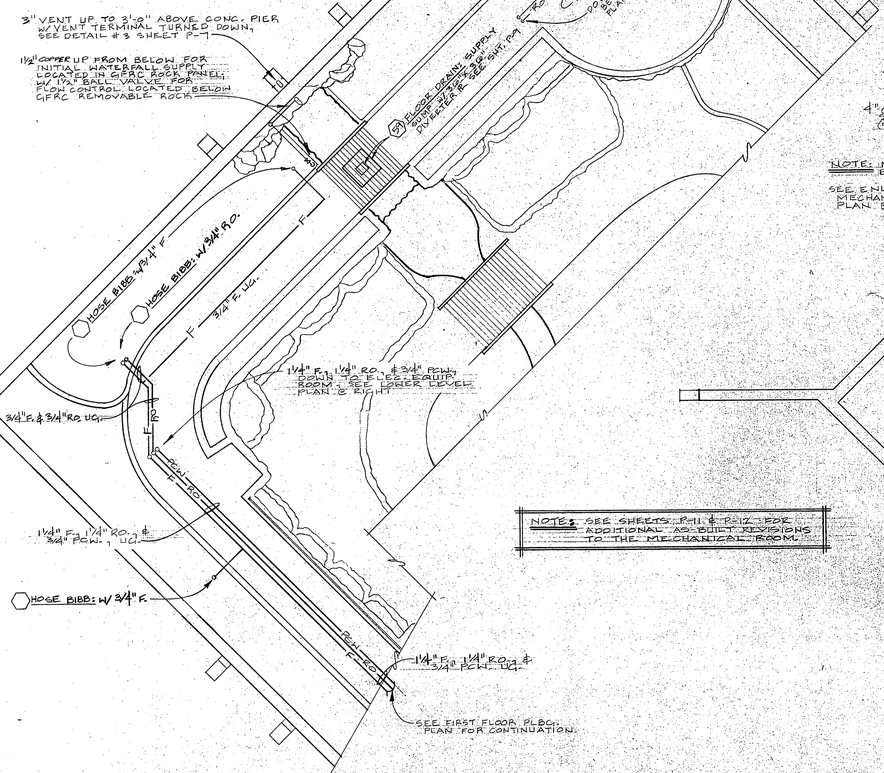
OLBRICH BOTANICAL COMPLEX
2330 ATWOOD AVENUE
MADISON, WISCONSIN

CONSERVATORY DRAINAGE PLANS • DRAINAGE DETAILS.

P-5.

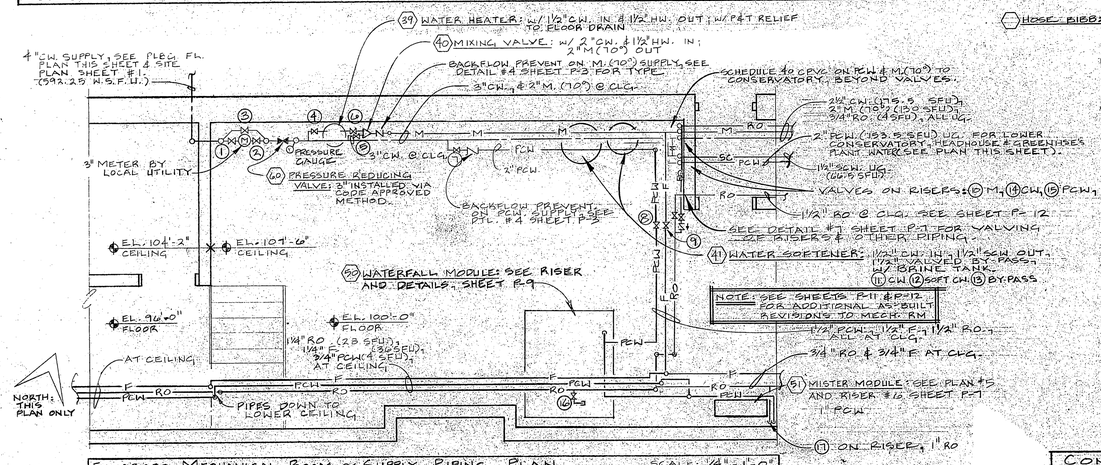


1. CONSERVATORY PIPING DETAIL SCALE: 1" = 1'-0"

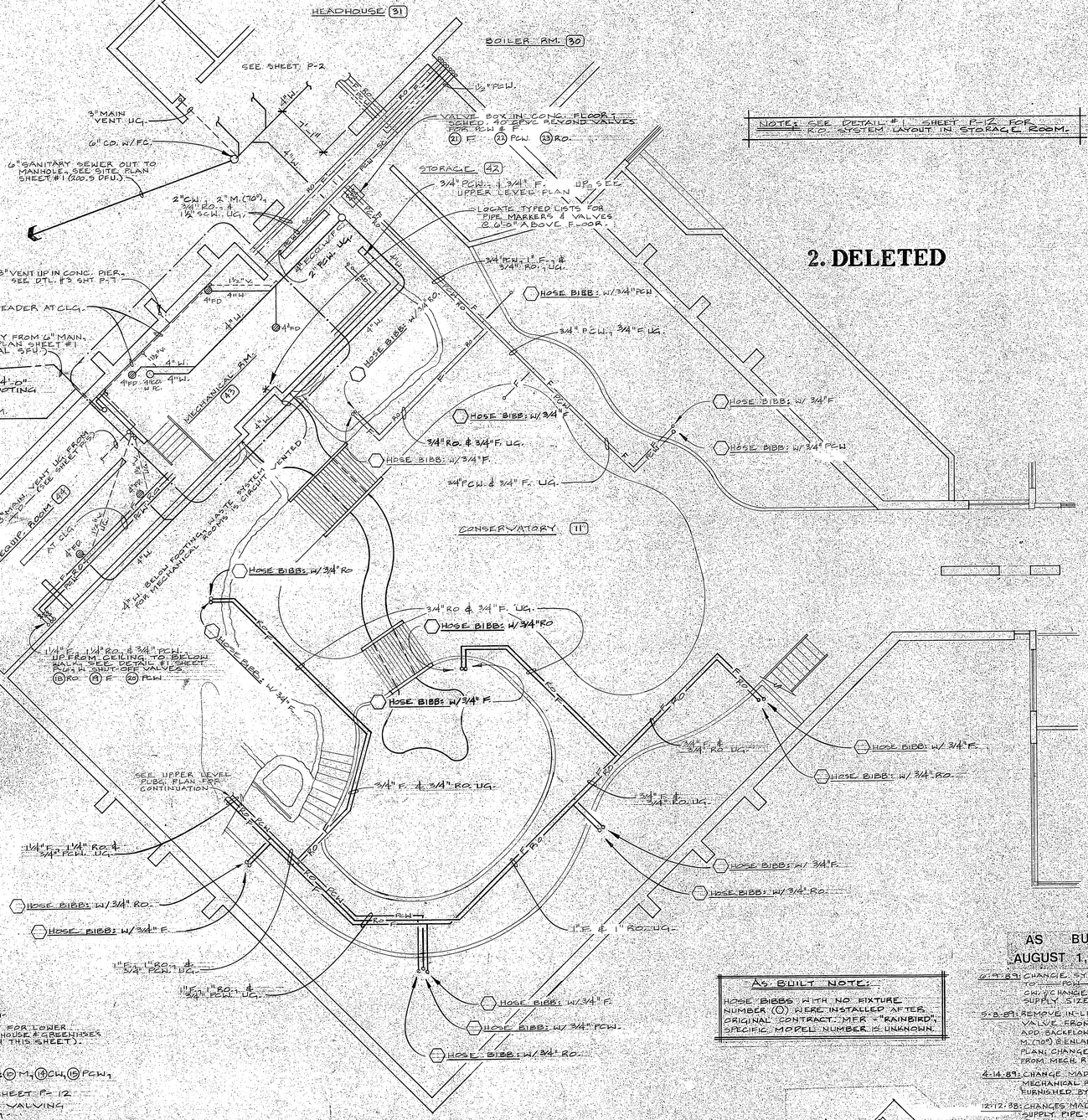


NOTE: SEE SHEETS P-11 & P-12 FOR ADDITIONAL "AS-BUILT" REVISIONS TO THE MECHANICAL ROOM.

CONSERVATORY - UPPER LEVEL PLUMBING PLAN SCALE: 1/8" = 1'-0"



ENLARGED MECHANICAL ROOM ~ SUPPLY PIPING PLAN SCALE: 1/4" = 1'-0"



2. DELETED

NOTE: ALL UNDERGROUND PIPING (P.C.W., RO. & M.) INSIDE OF THE CONSERVATORY (ROOM #11) SHALL BE BELOW THE WALKING PATHS, OR AS SHOWN, SEE DETAIL #1 SHEET P-6.

CONSERVATORY - FIRST FLOOR PLUMBING PLAN SCALE: 1/8" = 1'-0"

AS BUILT NOTE:

HOSE BIBBS WITH NO FIXTURE NUMBER (O) WERE INSTALLED AFTER ORIGINAL CONTRACT. MFR = "RAINBIRD", SPECIFIC MODEL NUMBER IS UNKNOWN.

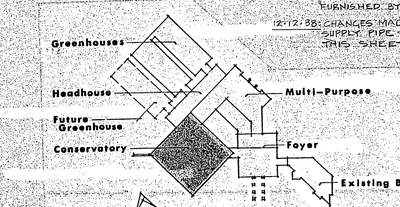
AS BUILT AUGUST 1, 1992

6-19-89: CHANGE SYMBOL (CW) TO (P.C.W.) FOR "PLANT" CW; CHANGE SOME CW. SUPPLY SIZES.

5-8-89: REMOVE IN-LINE BALL CHECK VALVE FROM DETAIL #2. ADD BACKFLOW PREVENTER CW. & M. (70°) & ENLARGED MECH. RM. PLAN; CHANGE TO CW. PIPING FROM MECH. RM. TO BOILER RM.

4-14-89: CHANGE SIZE AT ENLARGED MECHANICAL ROOM EQUIPMENT FURNISHED BY OWNER (31) (41)

12-12-88: CHANGES MADE TO WATER SUPPLY PIPE SIZES THROUGHOUT THIS SHEET.



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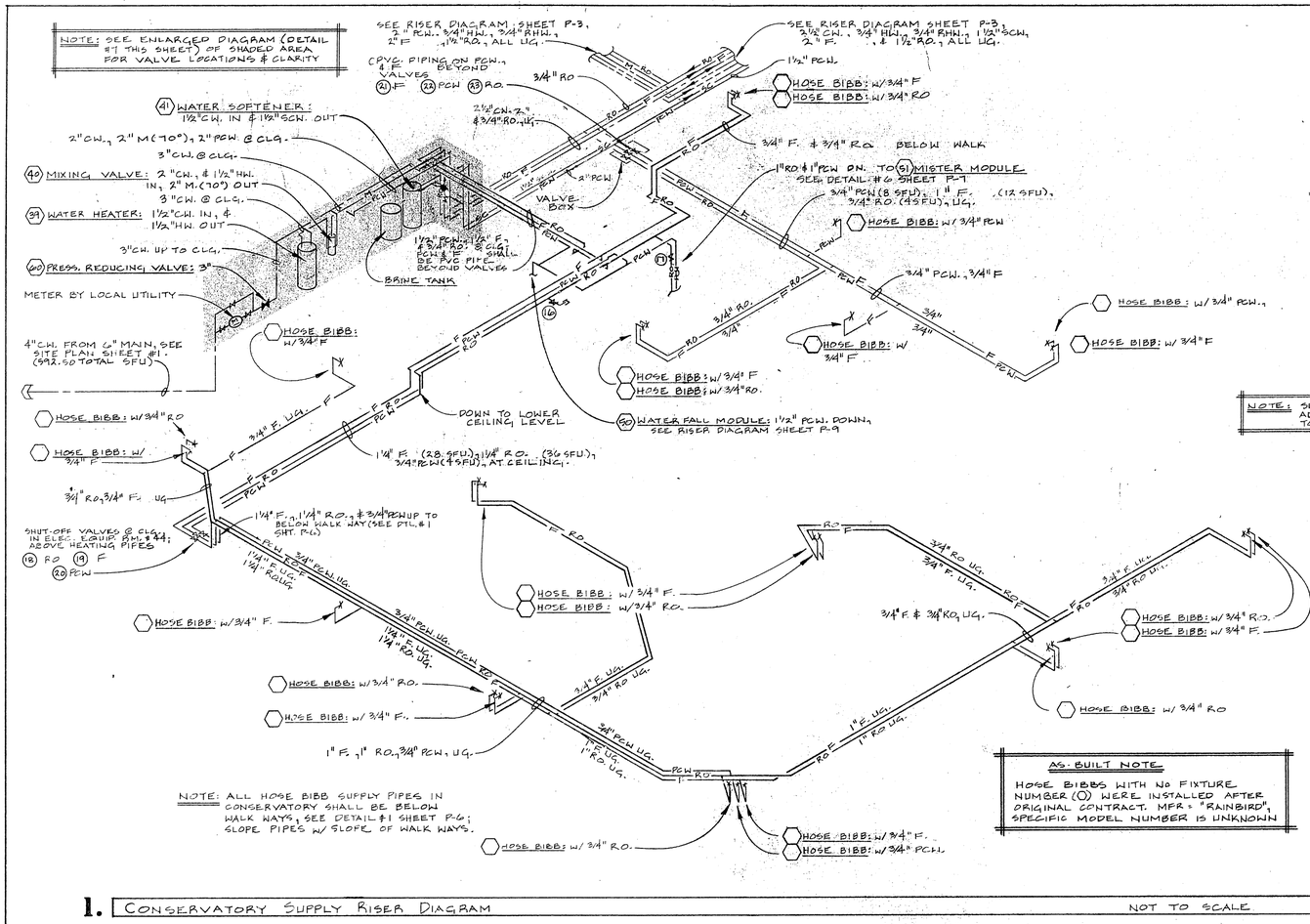
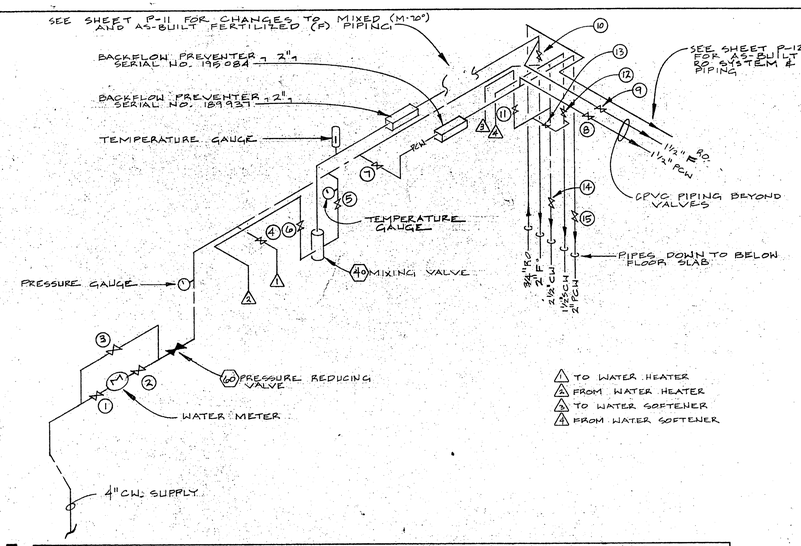
CONSERVATORY PLUMBING PLANS • ENLARGED MECHANICAL RM. PLUMBING SUPPLY PLAN • CONSERVATORY PLUMBING DETAILS

P-6.

11.18.88

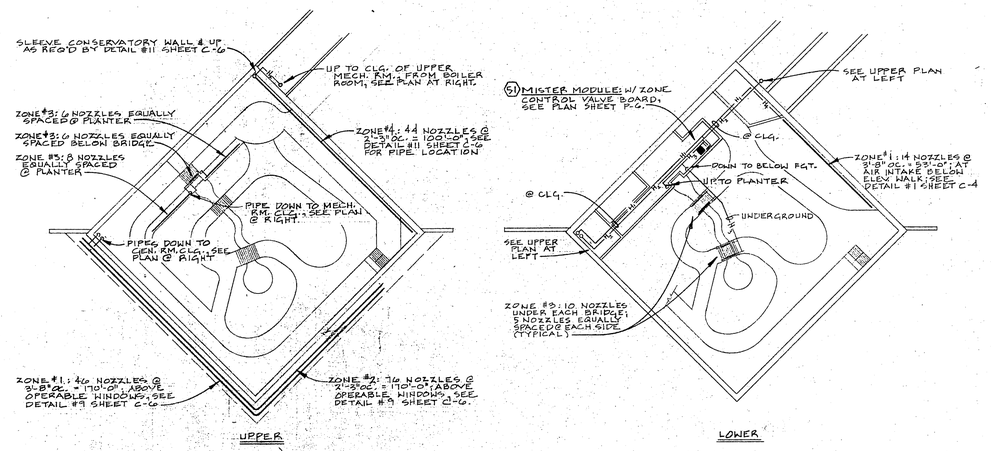


1. CONSERVATORY SUPPLY RISER DIAGRAM — NOT TO SCALE

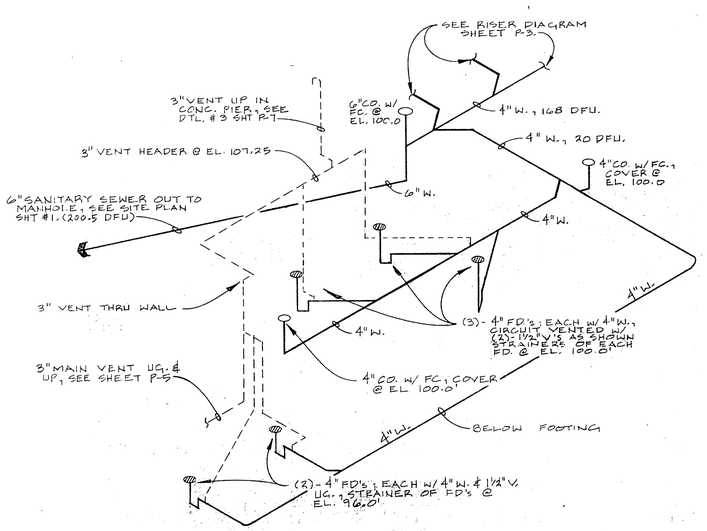


7. AS BUILT RISER VALVE DIAGRAM - MECHANICAL ROOM # 43 — NOT TO SCALE

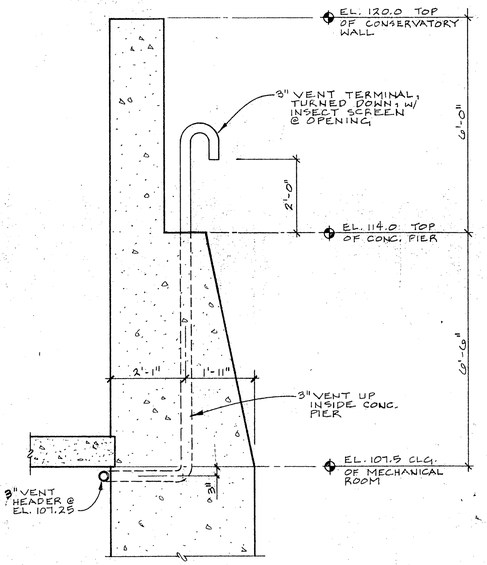
4. DELETED



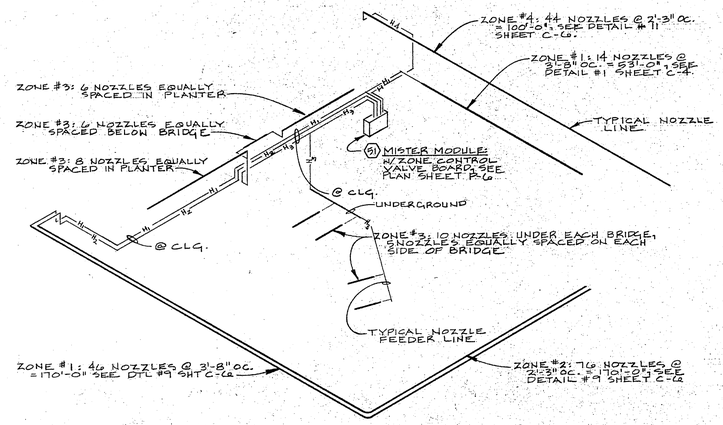
5. CONSERVATORY - MISTER SYSTEM PLANS — SCALE: 1" = 30'



2. CONSERVATORY WASTE & VENT RISER DIAGRAM — NOT TO SCALE



3. VENT TERMINAL DETAIL — SCALE: 1/2" = 1'-0"



6. MISTER SYSTEM RISER DIAGRAM — NOT TO SCALE

NOTE: USE "TNEMEC" 66 HI-BUILD EPOXOLINE FINISH ON ALL MISTER SYSTEM PARTS EXPOSED IN THE CONSERVATORY; (SEE STRUCTURAL SPECIFICATION FOR ADDITIONAL INFORMATION). FINISH SHALL BE APPLIED BY THE PAINTING CONTRACTOR AFTER INSTALLATION OF EQUIPMENT BY PLUMBING CONTRACTOR.

AS BUILT
AUGUST 1, 1992

6.9.89: CHANGE SYMBOL ——FCW—— (CW.) TO ——FCW—— FOR "PLANT" CW.; CHANGE SOME CW SUPPLY SIZES.

6.8.89: ADD BACKFLOW PREVENT TO CW. & M.(70°) IN MECH. RM.; CHANGE CW. PIPING BETWEEN MECH. RM. AND BOILER RM.

4.14.89: CHANGES TO DETAIL #4; NOTE AT DETAIL #6; "FURN. BY OWNER", NIC., INSTALLED BY PLUMBING CONTR. AT ITEMS 51 & 60 AT SUPPLY RISER.

12.12.88: CHANGES MADE TO WATER SUPPLY PIPE SIZES THROUGHOUT THIS SHEET.

11.18.88

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BOTANICAL COMPLEX
OLBRICH
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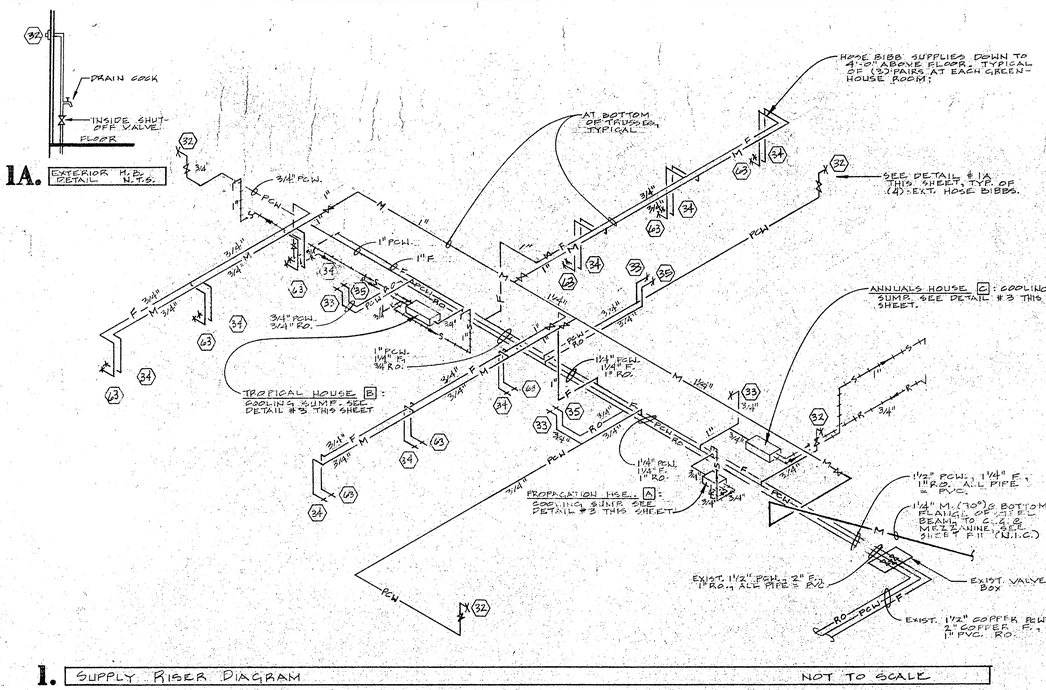
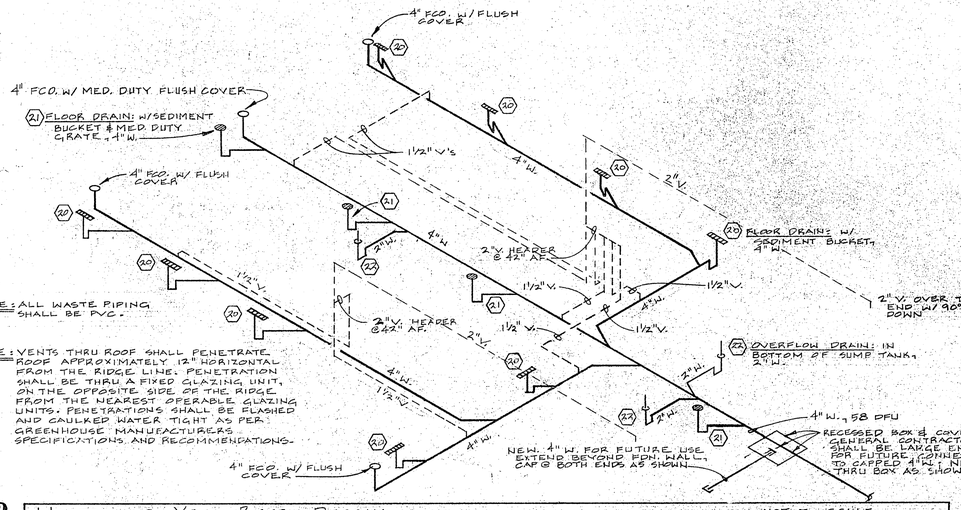
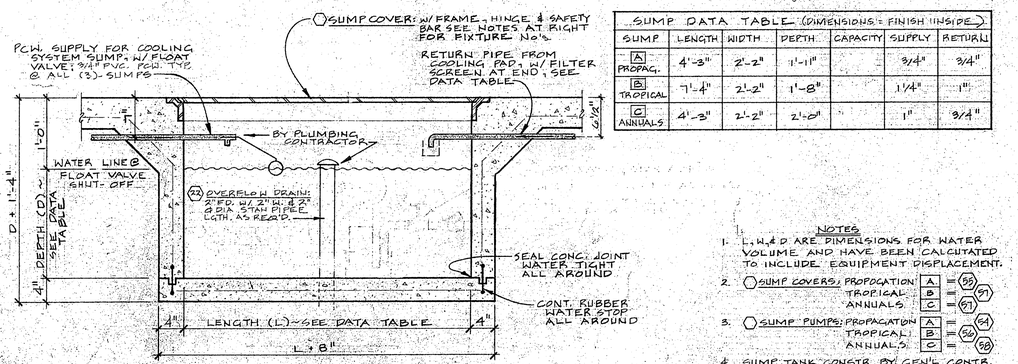
MADISON, WISCONSIN

CONSERVATORY RISER DIAGRAMS • MISTER SYSTEM RISER DIAGRAM • SYSTEM PLANS • MISTER SYSTEM DETAILS

P-7.

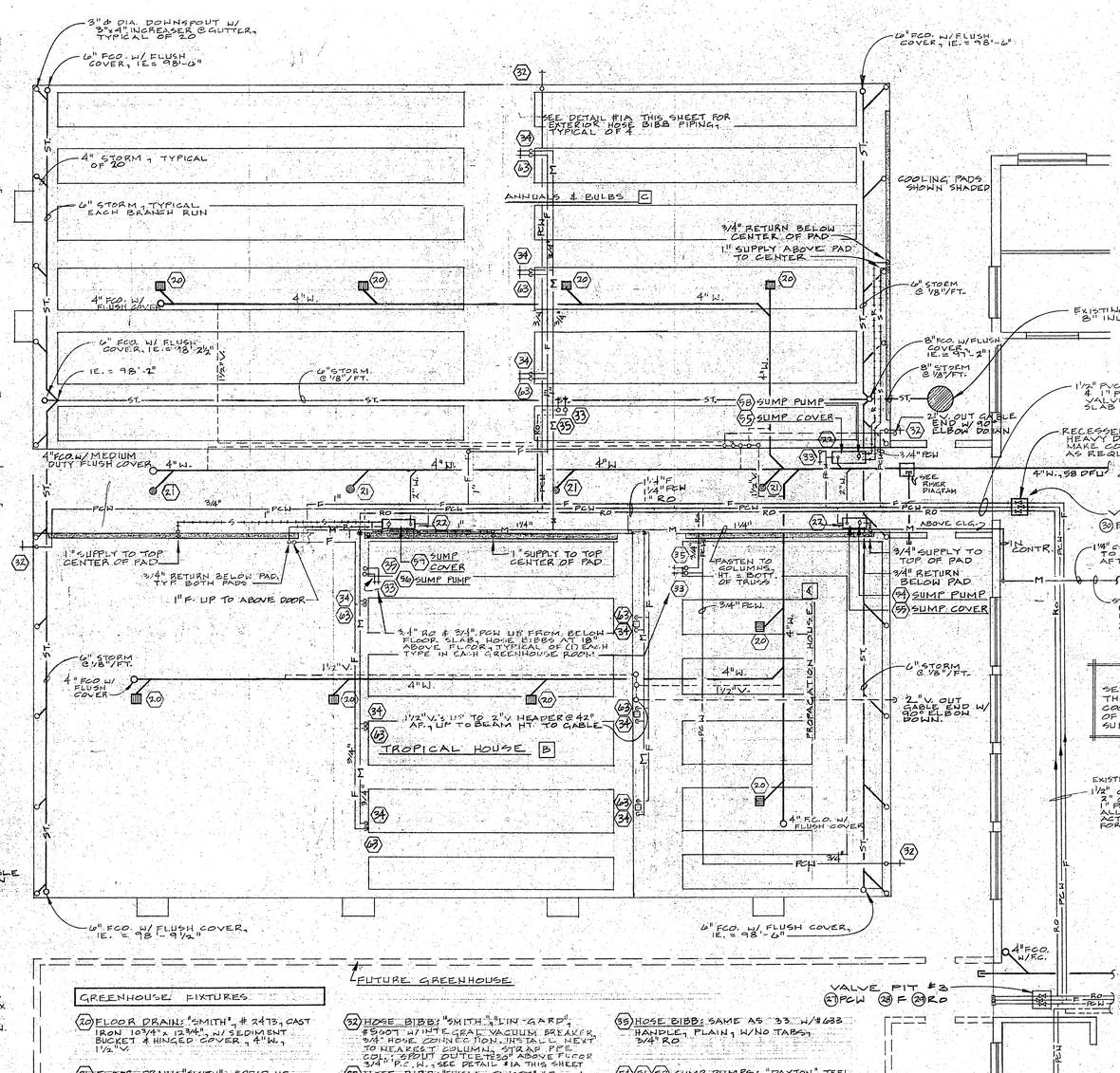






SUMP DATA TABLE (DIMENSIONS = FINISH INSIDE)						
SUMP	LENGTH	WIDTH	DEPTH	CAPACITY	SUPPLY	RETURN
A PROPAG.	4'-3"	2'-2"	1'-11"		3/4"	3/4"
B TROPICAL	7'-4"	2'-2"	1'-8"		1¼"	1"
C ANNUALS	4'-3"	2'-2"	2'-0"		1"	3/4"

NOTES
1. L, W, & D ARE DIMENSIONS FOR WATER VOLUME AND HAVE BEEN CALCULATED TO INCLUDE EQUIPMENT DISPLACEMENT.
2. ⬡ SUMP COVERS: PROPAGATION A = (55); TROPICAL B = (57); ANNUALS C = (57)
3. ⬡ SUMP PUMPS: PROPAGATION A = (54); TROPICAL B = (56); ANNUALS C = (58)
4. SUMP TANK CONSTR. BY GEN'L CONTR.



GREENHOUSE FIXTURES

(20) FLOOR DRAIN: "SMITH", # 2473, CAST IRON 10¾" x 12¾", W/ SEDIMENT BUCKET & HINGED COVER, 4" W., 1½" V.

(21) FLOOR DRAIN: "SMITH", # 2310-HB MEDIUM DUTY 8½" ø DIA. W/ SAFE-SET SEDIMENT BUCKET, 4" W., 1½" V.

(22) OVERFLOW DRAIN: "SMITH", # 6310: ND 21" H., 2.0 DIA STANDPIPE, LENGTH AS REQUIRED BY DEPTH OF WATER IN SUMP, 4" W., 1¼" V.

FUTURE GREENHOUSE

(52) HOSE BIBB: "SMITH", "LIN-GARD", #5307 W/ INTEGRAL VACUUM BREAKER, 3/4" HOSE CONNECTION, INSTALL NEXT TO NEAREST COLUMN, STRAP PIPE, COLUMN, SPOUT OUTLET 36" ABOVE FLOOR 3/4" F.P.W., SEE DETAIL #1A THIS SHEET

(53) HOSE BIBB: "CHICAGO FAUCET" #7, W/ NON REMOVABLE VOLT OUT VACUUM BREAKER, #733 HANDLE, "COLD" W/ BLUE TAB, SPOUT OUTLET 18" TO 24" ABOVE FLOOR, 3/4" PCW.

(54) HOSE BIBB: SAME AS (53) ABOVE, W/ #733 HANDLE, PLAIN, W/ RED TAB.

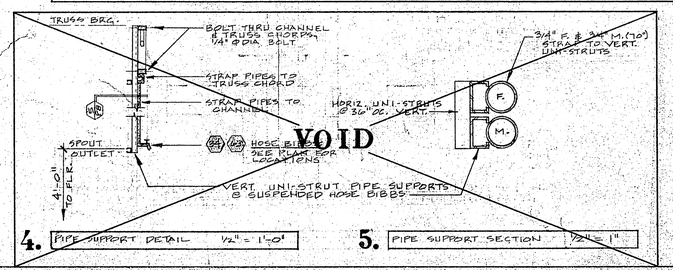
(58) HOSE BIBB: SAME AS (53) ABOVE W/ #733 HANDLE, PLAIN, W/ NO TAB. 3/4" F.

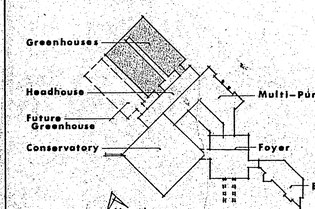
(55) HOSE BIBB: SAME AS 53 W/ #733 HANDLE, PLAIN, W/ NO TABS, 3/4" RO

(54) (56) (58) SUMP PUMPS: "DAYTON", TEEL INDUSTRIAL SERIES, NON-SUBMERSIBLE
(54) #4KG279, ½ HP, 115 V, 8.2A.
(56) #9KG479, ½ HP, 115 V, 7.8A.
(58) #6KG958, ⅓ HP, 115 V, 8.0A.

(55) (57) SUMP COVERS: COVER #55 = 4'-3" x 2'-2" (2 EACH)
COVER #57 = 7'-4" x 2'-2"

GREENHOUSES - PLUMBING FLOOR PLAN & FIXTURE SCHEDULE SCALE: 1/8" = 1'-0"





AS BUILT
AUGUST 1, 1992

9-24-91: CHANGES MADE THRU OUT ENTIRE SHEET.

6-28-91: CHANGES MADE THRU OUT ENTIRE SHEET.

6-9-89: CHANGE SYMBOL ——(CW)—— TO ——PCW—— FOR "PLANT" CW.

12-12-88: CHANGES MADE TO NOTES IN FUTURE GRNHSE. -(52)(53)(54)(58)

CHANGES MADE TO WATER SUPPLY PIPE SIZES THROUGHOUT THIS SHEET.

11-18-88

STUART WILLIAM GALLAHER, ARCHITECT INC
702 NORTH BLACKHAWK AVENUE MADISON, WISCONSIN 53705

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GREENHOUSES - PLUMBING FLOOR PLAN • WASTE, VENT, & SUPPLY RISER DIAGRAMS • PLUMBING DETAILS

P-8.

ⓞ INDICATES "FURNISHED BY OWNER", NOT IN CONTRACT; INSTALLED/CONNECTED BY PLUMBING CONTRACTOR
◇ INDICATES GREENHOUSE FIXTURES, NOT IN CONTRACT
◆ INDICATES GREENHOUSE FIXTURES THAT APPEAR ELSEWHERE IN BASE BID.
SHADED FIXTURE NUMBERS INDICATE MULTI-PURPOSE MODULE ALTERNATE BID, NOT IN CONTRACT; PLUMBING CONTRACTOR SHALL ROUGH-IN ALL PLUMBING REQUIRED FOR THESE FIXTURES USING THE MANUFACTURER & MODEL No. SHOWN; HALF-SHADED FIXTURES APPEAR ELSEWHERE IN BASE BID.

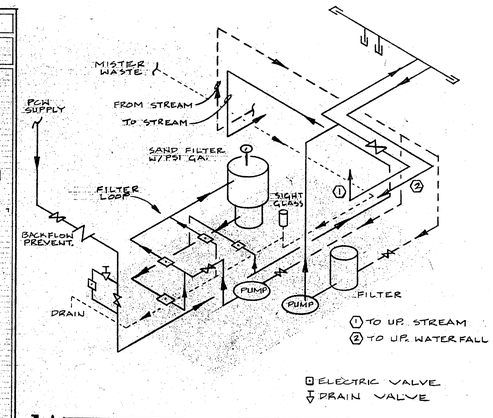
PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE / MANUFACTURER / MODEL No.	PLUMBING CONNECTION WASTE	VENT	COLD	HOT	REMARKS
1	W.C.: "KOHLER", #K-4432-ER W/ #K-4671-C SEAT (TYP. OF ALL W.C.)	3"	1½"	1½"	——	"SLOAN" - ROYAL #111 CONCEALED FLUSH VALVE W/ 1½" REAR SPUD CONNECTION; SEE INT. ELEV. SHEET No. F-1.
2	UR.: "KOHLER", # K-4980-R (TYP OF ALL)	2"	1¼"	¾"	——	"SLOAN" - ROYAL #613 CONCEALED FLUSH VALVE W/ ¾" REAR SPUD CONNECTION; SEE INT. ELEV. SHEET No. F-1
3	LAV.: "KOHLER", # K-2861, 19" x 17" W/ 4" CENTERS (TYP. RM. 4 5)	1¼"	1¼"	½"	½"	"BRADLEY" #90-15 METERING FAUCET & MODEL TMA MIX VALVE (105°F) W/ 2-STOP STRAINER CHECK VALVES; "KOHLER" #K-7715 1¼" TAILPIECE
4	ENC.: "HAWS", #HWDFS8-2, DUAL MOUNTED W/ BARRIER FREE ACCESS	1¼"	1¼"	½"	——	W/ RECESSED CHILLER; SPOUT OF BARRIER FREE BASIN SHALL BE 36" ABOVE FLOOR (MAX.)
5	UTILITY SINK: "MUSTEE", "SUPERTOUGH-UTILITUB", #19W, 24" x 20"	2"	1¼"	½"	½"	FLOOR MOUNT TUB (NO LEGS); W/ FAUCET BLOCK; "CHICAGO FAUCET" #917 W/ VB's; ROUGH CHROMIUM PLATED, RISER PIPES BY PLBG. CONTR.
6	3 COMP SINK: "METAL MASTERS", #SR-16-3-18R 300 SERIES, NSF; W/ RIGHT DRAIN BD.	2"	1¼"	½"	½"	"CHICAGO FAUCET" #445 W/ L-8 SPOUT (2 EACH); W/ VB's; WASH & RINSE COMP. TO GREASE TRAP; SANITIZE COMP. TO 4" W.
7	DISH TABLE: "HOBART", AM L-R CLEAN TABLE 34"	——	——	——	——	ACTUAL LENGTH = 35½"
8	PRE-RINSE SINK: "HOBART", AM L-R SOILED TABLE 48"; W/ 20"x 20"x 6" SINK	——	——	½"	½"	3½" OPENING FOR FWG.; W/ "HOBART" PR-3 PRE-RINSE SPRAYER; ACTUAL LENGTH = 49½"
9	FWG.: "IN-SINK-E-RATOR", #SS-75, ¾ HP. ON PRE-RINSE SINK 8	1½"	1¼"	½"	——	3½" OPENING, ON PRE-RINSE SINK IS READY; PLBG. CONTR. SHALL INSTALL V.B. & SOLENOID PROVIDED W/ EQUIPMENT
10	DW.: "HOBART", # AM-14, 140°F CHEMICAL SANITIZING	2"	ON IWD.	——	¾"	VERIFY LOCATION OF INLET/OUTLET W/ MFR'S SHOP DRAWINGS; 2" DRAIN PIPE TO 11 4" IWD VIA CODE APPROVED AIR GAP
11	IWD: "SMITH", #3610 W/ 8½" DIA. MEDIUM DUTY GRATE	4"	1½"	——	——	W/ 4" DIA. RECEPTOR CUP
12	LAV: "KOHLER", #2813, 19"x17" W/ 8" CENTERS (TYP. RM's 26 29)	1¼"	1¼"	½"	½"	"CHICAGO FAUCET" #1374-E1R (8" CENTERS); W/ 1½" POP-UP WASTE TAILPIECE.
13	SHOWERS: "CHICAGO FAUCET", #1762, W/ BUILT-IN PRESSURE BALANCE VALVE & #239 HANDLE	4" FD.	ON F.D.	½"	½"	"CHICAGO FAUCET" #220 FC SHOWERHEAD 2.75 GPM. INSTALLED VIA CODE APPROVED MANNER
14	PLANT SINK: "FLORESTONE", TERRAZO MOP SINK, MODEL 10, 36"x 36"x 12"	2"	1¼"	½"	½" M. (70°)	"CHICAGO FAUCET" #917 W/ VB's; ROUGH CHROMIUM PLATED RISER PIPES BY PLBG. CONTR.; PIPING IN STORAGE RM. 42
15	2 COMP. SINK: "METAL MASTERS", UTILITY, #3060-2-30 REL, 14 GA, 300 SERIES	2"	1¼"	½"	½"	"CHICAGO FAUCET" 51GCC PRE-RINSE W/ #613 ADAPTA FAUCET & L-15 SPOUT, 2-"703M WALL SUPPORTS, & "851 HOOK; CODE APPROVED INSTALLATION
16	SAND INTERCEPTOR: "SMITH", # 87H, W/ FINE MESH BUCKET, ACID RESIST COAT IN/OUT	2"	1¼"	——	——	FLOOR MOUNTED BELOW RIGHT DRAIN BOARD OF 15; CODE APPROVED INSTALLATION
17	EMERGENCY SHOWER: "BRADLEY", #9931-BTEEW, W/ EYE WASH UNIT, BRADTECT FINISH	4" FD.	1¼"	1¼"	——	UNIT HAS INTEGRAL 1¼" DRAIN FOR EYE WASH; OPERATORS SHALL BE "PUSH OPEN - PULL CLOSE" TYPE
18	CHEMICAL SINK: "MUSTEE", UTILATUB, DELUXE DURASTONE, # 19F, 24" x 20"	2"	1¼"	½"	½"	W/ "MUSTEE" #93-600 FAUCET; PIPE 2" W. TO CHEMICAL SUMP & 1¼" V. TO CHEMICAL VENT
19	CHEMICAL SUMP: "SCHIER", # NT-15H, 15 GAL. LIQUID HOLDING CAPACITY	2"	1½"	——	——	HIGH DENSITY POLYETHYLENE, RECESSED INTO FLOOR, W/ ADJUSTABLE EXTENSION SUMP COVER, CODE APPROVED INSTALLATION
20 ◆	FLOOR DRAIN: "SMITH", #2473, CAST IRON, 10¾" x 12¾", W/ SEDIMENT BUCKET	4"	1¼"	——	——	W/ HINGED COVER; TOP OF GRATE IN FLOW LINE OF TRENCH DRAINS; 12¾" DIMENSION W/ LENGTH OF TRENCH.
21 ◇	FLOOR DRAIN: "SMITH", #2210-NB, MEDIUM DUTY 8½" DIA W/ SAFE SET SEDIMENT BUCKET	4"	1½"	——	——	COVER FLUSH W/ FLOOR OR FLUSH W/ BOTTOM OF DRAIN PIT AS REQ'D BY RUM & DETAIL #4 SHEET P-8
22 ◇	DRAIN PIT COVER: "SMITH" #2941-NB MED. DUTY 12"x 24" GRATE W/ 12½" x 24½" FRAME	——	——	——	——	DRAINAGE PIT & COVER INSTALLED BY GEN'L. CONTR. DURING CONC. POURING; SEE DETAIL #4 SHEET P-8
23 ◇	SHOWER STALL: "BREMENCLAS" #3636, 36" x 36" COLOR = WHITE	4" FD.	1¼"	——	——	4" FD. CENTERED IN STALL; SEE 13 FOR MANUFACTURER & MODEL No. OF SHOWER EQUIP.
24	TRENCH DRAIN COVER: "NEENAH FOUNDRY", HEAVY DUTY; #R-4990-DX, 'P' GRATE	——	——	——	——	TYPE 'X' FRAME; IN HEADHOUSE, LENGTH AS REQ'D BY PLAN (P-2); INSTALLED BY GEN'L. CONTR. DURING CONC. POURING
25 ◇	TRENCH DRAIN COVER: "NEENAH FOUNDRY", LIGHT DUTY, #R-4991-DX; 'P' GRATE	——	——	——	——	TYPE 'X' FRAME; IN GREENHOUSES. LENGTH AS REQ'D BY PLAN (P-8). INSTALLED BY GEN'L CONTR. DURING CONC. POURING
26	TRENCH DRAIN & COVER: "METALINES, INC.", #LG-N-4	4"	——	——	——	W/ TRENCH LINER & STRAP ANCHORS
27	CATCH BASIN GRATE: "NEENAH FOUNDRY" (5) -R-4030-300 & (1) -R-4030-595	——	——	——	——	HEAVY DUTY, TYPE 'Y' FRAME, SLOTTED GRATE; SEE DRAINAGE PLAN AND DETAIL #1, SHEET P-1.
28	HOSE BIBB: "SMITH", "LINE GARD", #5909-SE, W/ ¾" HOSE CONNECTION	——	——	¾"	——	NON-FREEZE HYD.; W/ INTEGRAL VB. & RESIDUAL DRAINAGE; 12A. DIM. OUTSIDE FACE OF WALL TO ℄ OF UNION ELBOW = 8"
29	HOSE BIBB: "CHICAGO FAUCETS", #78Z-VB W/ ¾" HOSE CONNECTION	——	——	¾"	¾"	PIPES CONCEALED IN BOILER RM.; #633 HANDLES INDEXED "HOT" & "COLD" W/ COLOR TABS; INTEGRAL VB., WALL BRACE, & FAIL HOOK ON SPOUT
30	HOSE BIBB: "SMITH", "LINE GARD", #5609, W/ ¾" HOSE CONNECTION	——	——	¾"	——	W/ INTEGRAL VB.; @ STORAGE RM. 33 = PIPING IN BLOCK WALL; @ STORAGE RM 42 SLEEVE & BLOCK-OUT FORM AS REQUIRED
31	HOSE BIBB: "NIBCO CHEMTROL INC.", ¾" PVC "Y" PATTERN VALVE	——	——	¾" R.O.	——	ALL PVC CONSTR., SEE DTL. #3 SHT. P-3; W/ MALE-MALE ADAPTER FOR HOSE CONNECTION.
32 ◇	HOSE BIBB: "SMITH", "LINE GARD", # 5609-SE, W/ ¾" HOSE CONNECTION	——	——	¾"	——	NON-FREEZE HYD.; W/ INTEGRAL VB. & RESIDUAL DRAINAGE; 12A. DIM. OUTSIDE FACE OF WALL TO ℄ OF UNION ELBOW = 8 1/2"
33 ◆	HOSE BIBB: "CHICAGO FAUCET", #7, W/ ¾" HOSE CONNECTION	——	——	¾"	——	W/ #E2T NON-REMOVABLE SPOUT, OUTLET VB., SEE DTL. #4 SHT. P-7 (NO PIT IN GREENHOUSES); W/ #633 HANDLE "COLD" W/ BLUE TAB
34 ◆	HOSE BIBB: "CHICAGO FAUCET", #7, W/ ¾" HOSE CONNECTION	——	——	¾" M. (70")	——	W/ #E2T NON-REMOVABLE SPOUT, OUTLET VB., SEE DTL. #4 SHT. P-7 (NO PIT IN GREENHOUSES); W/ #634 HANDLE, PLAIN W/ NO TAB.
35 ◆	HOSE BIBB: "NIBCO CHEMTROL INC.", ¾" PVC ANGLE VALVE	——	——	¾" R.O.	——	ALL PVC CONSTR.; SEE DTL. #2 SHT P-6 & DTL. #4 SHT. P-7 (NO PIT IN GREENHOUSES); W/ MALE/MALE ADAPTER FOR HOSE CONNECTION
36	ICE MACHINE: "MANITOWOC", #ER-0601A CUBER W/ C-100 BIN & #OGLEGS; W/ WARRANTIES	½", ½", ¾"	ON IWD.	½"	½"	W/ "MANITOWOC" #K-034 TRI-LIMINATOR FILTER; ⅜" ICE INLET, ⅜" CONDENSER INLET; ½" SUMP, ½" CONDENSER, & ¾" BIN DRAINS TO IWD.
37	GREASE INTERCEPTOR: "SMITH" #80 35-GT; 35 GPM; 701b CAPACITY	3" IN/OUT	1½"	——	——	FLOOR MOUNTED; W/ AUTOMATIC DRAW-OFF PIPING & VALVE; INSTALL WASTE & VENT IN CODE APPROVED MANNER
38	HAND SINK: "METAL MASTERS": #CD1-12-14-9½-1 W/OUT MANUFACTURERS FAUCET	1½"	1¼"	——	——	"CHICAGO FAUCETS" #895-317 W/ #317-4 WRIST BLADES; "KOHLER CO." DRAIN # K-7715 (OPEN. GRID DRAIN)
39	WATER HEATER: "BOCK", #100G-180, 100 GAL. CAPACITY, 140° MIN., W/ WARRANTY	——	——	1½" IN	1½" OUT	W/ "BOCK" # FVAE-2 POWER VENT; GLASS LINED, INSULATED, MAGNESIUM ANODE RODS; 199 MBH HOOKUP BY HVAC CONTR; VENT BY PLBG. CONTR.
40	MIXING VALVE: "HOLBY" TEMPERING VALVE; SIZE = 2½"	——	——	2" IN	1½" IN	2" M. (70°) OUT; W/ BALANCING COCKS; CV = 48 GPM.; HR = 28 GPM.; M (70°) = 69 GPM = 170 WSFU
41	WATER SOFTENER: "CAPITAL", #CCM-160-1½", W/ 24"x 50" POLYETHYLENE BRINE TANK	——	——	1½" IN/OUT	——	160,000 GRAINS; 5 CU. FT. RESIN; W/ TM-6 CONTROL VALVE; 2/10/10 WARRANTY
42	WATER HEATER: "BOCK", #24HPE, 100 GAL. CAPACITY, 140° MIN., W/ WARRANTY	——	——	1½" IN	1½" OUT	GLASS LINED, INSULATED, W/ MAGNESIUM ANODE RODS; W/ POWER BURNER 311 MBH BY HVAC CONTR; VENT BY PLBG. CONTR.; W/ P&T RELIEF
43	HW. STORAGE TANK: "BOCK", #120 ST, 120 GAL. CAPACITY, 25" DIA x 60" W/ WARRANTY	——	——	——	1¼" IN/OUT	GLASS LINED, INSULATED, W/ P&T RELIEF; SEE RISER DIAGRAM #2 SHEET P-8 FOR CONNECTIONS
44	HW. CIRCULATION PUMP: "BELL AND GOSSETT", MODEL #2½, ¼ HP, 2.2 AMPS	——	——	——	2½" IN/OUT	ALL BRONZE CONSTRUCTION; 125 PSI MAX. WORKING PRESSURE, 115v; 1ϕ BY ELECTRICAL CONTRACTOR
45	MIXING VALVE: "HOLBY" TEMPERING VALVE, SIZE = 1"	——	——	1" SCW IN	1" IN	1" TEMPERED SCW OUT @ 70°F W/ BALANCING COCKS @ INLETS, SCW = 5.0 GPM.; HW = 2.4 GPM @ 140°F = 8 GPM @ OUTLET
46	CARBON FILTER: "WATER REFINING IND.", #CC-10, 8 GPM FLOW RATE	——	——	1" TSCW IN/OUT	——	0.9 CU. FT. FILTERING MEDIA FOR CHLORINE REMOVAL
47	REVERSE OSMOSIS SYSTEM: "WATER REFINING IND.", # T-600R, RATED @ 600 GPD.	½" TO FD.	ON F.D.	¾" TSCW IN	½" RO OUT	W/ ALL STANDARD EQUIP.; CONTROL INLET PRESSURE = 60 PSI; CODE APPROVED AIR GAP ON ½" CONCENTRATE @ FD.
48	R.O. STORAGE TANK: 36" ϕ DIA x 72" VERT. TANK W/ COVER, 300 GAL. CAP.	——	——	1½" RO IN	——	W/ ON-OFF LEVEL CONTROL & SIGNAL TO REVERSE OSMOSIS UNIT; ALL POLYPROPYLENE CONSTRUCTION
49	R.O. PUMP: "FYBROC", 1x 1½ x ½, 1630 SERIES CLOSE COUPLED PUMP; 2HP, 1750 RPM	——	——	1½" RO OUT	——	24 GPM @ 160' HEAD; VR-1 CONSTR W/ RAC SEAL; 230v, 3ϕ BY ELEC. CONTR.; INTERCONNECT W/ 60, ON @ 45 PSI & OFF @ 60 PSI, MIN. RUN TIMES 1.5 MINUTES
50	WATERFALL SYSTEM: "IMPERIAL BRONZELITE" #WW-2-B-F2A-F5-3864 SKID MTD. UNIT	2" OVERFLOW	——	1½"	——	SEE DTL'S SHT. P-9 & SPEC. SHT. P-10 FOR ADDITIONAL INFORMATION. 208v, 3 ϕ, 4 WIRE TO UNIT ELEC. PANEL BY ELEC. CONTR.
51	MISTER SYSTEM: "MEE INDUSTRIES INC." CUSTOM UNITS; 10.5 GPM @ 1000 PSI	——	——	¾"	——	VERIFY INLET SIZE W/ MFR. BEFORE ROUGHING-IN; SEE SPEC. SHT. P-10 FOR ADDITIONAL INFO.; 7.5 HP, 230v, 3ϕ BY ELEC. CONTR.
52	IN-LINE GATE VALVE: "SMITH", #1193 W/ 12" EXTENSION	4" IN/OUT	——	——	——	FOR COMPLETE DRAINAGE OF WATER FALL SYSTEM ONLY; SEE PLAN & DETAIL #2 SHEET P-8
53	MANHOLE COVER: "NEENAH FOUNDRY", LIGHT DUTY #R-1090; W/ 36" ϕ ID x 3½" CONC. MH.	——	——	——	——	TYPE 'Y' FRAME, TYPE 'C' LID; SEE PLAN AND DETAIL #2 SHEET P-5.
54 ◇	SUMP PUMP: "HYDROMATIC", #SCU-PITIM1, MANUAL, 115v; 9.8A; 1/6 HP, 80 GPM FLOW RATE	——	——	——	¾"	SEE DTL. #3 SHT. P-8; ¾" SUPPLY TO & ¾" RETURN FROM "PROPAGATION" PAD; WIRED BY ELEC. CONTR. (CONNECT PUMP SWITCH W/ HVAC CTRL. PANEL
55 ◇	SUMP COVER: "NEENAH FOUNDRY", LIGHT DUTY, # R-6661-CH; TYPE 'T' HINGE & ½" HANDLES	——	——	——	——	ONE LID IN FRAME; W/ HOLD-UP SAFETY BAR; INSTALLED BY GEN'L. CONTR. DURING CONC. POURING; SEE DETAIL #3 SHEET P-8
56 ◇	SUMP PUMP: "HYDROMATIC", #SW39 W/ MANUAL OPTION; 115v; 8A, ½", ¼ HP, 22 GPM FLOW RATE	——	——	——	½"	SEE DTL. #3 SHT. P-8; ½" SUPPLY TO & 1" RETURN FROM "TROPICAL" COOL. PADS; WIRED BY ELEC. CONTR. (CONNECT PUMP SWITCH W/ HVAC CTRL. PANEL
57 ◇	SUMP COVER: "NEENAH FOUNDRY", LIGHT DUTY, #R-6661-DH; TYPE 'T' HINGE & ½" HANDLES	——	——	——	——	TWO LIDS IN FRAME; W/ HOLD-UP SAFETY BAR; INSTALLED BY GEN'L. CONTR. DURING CONC. POURING; SEE DETAIL #3 SHEET P-8

PLUMBING PIPE MARKING SCHEDULE

PIPE	MARKER LEGEND	BACKGROUND COLOR	LETTER COLOR	PIPE LOCATIONS ~ SEE PLANS
——— 1.	"SANITARY WASTE"	YELLOW	BLACK	1. MARK ALL LOCATIONS WHERE SANITARY WASTE IS EXPOSED. (BOILER ROOM 30).
- - - - 2.	"SANITARY VENT"	YELLOW	BLACK	2. MARK ALL LOCATIONS WHERE PIPES ARE ABOVE GROUND; INCLUDES EXPOSED, INSIDE INTERIOR BLOCK/PARTITION WALLS, AND ABOVE CEILINGS.
- - C - - 2.	"CHEMICAL" & "VENT (2- SEPERATE SIGNS)	YELLOW (BOTH)	BLACK (BOTH)	
——— 3.	"COLD WATER SUPPLY"	GREEN	WHITE	3. MARK ALL LOCATIONS AS IN 2 ABOVE, UNDER ALL WALKWAYS IN CONSERVATORY 11, AND ON EXPOSED HOSE BIBB PIPES IN CONSERVATORY 11 AND GREEN HOUSES.
- - - - - 2.	"HOT WATER SUPPLY"	YELLOW	BLACK	
- - - - - 2.	"HOT WATER RETURN"	YELLOW	BLACK	4. MARK WHERE EXPOSED AT MECHANICAL RM. 43, AND HALL 41 CEILING; ONLY.
—RO— 3.	"PROCESSED WATER"	GREEN	WHITE	5. MARK ALL EXPOSED PIPE IN MECHANICAL RM. 43, AND WHEREVER BURIED IN CONSERVATORY 11.
—M— 3.	"DUAL TEMPERATURE" & "MIXED WATER" (2-SEPERATE SIGNS)	YELLOW (BOTH)	BLACK (BOTH)	
—SC— 2.	"SOFT WATER"	GREEN	WHITE	
—H— 4.	"HIGH PRESSURE WATER"	YELLOW	BLACK	
+++D+++ 5.	"DRAIN WASTE"	GREEN	WHITE	
+++S+++ 5.	"CIRCULATING WATER" & "SUPPLY" (2-SEP. SIGNS)	GREEN (BOTH)	WHITE (BOTH)	
+++R+++ 5.	"CIRCULATING WATER" & "RETURN" (2-SEP. SIGNS)	GREEN (BOTH)	WHITE (BOTH)	
—PCW— 3.	"PLANT WATER"	GREEN	WHITE	

NOTES:
1. MARK BURIED PIPES IN CONSERVATORY 11 AT 10'-0" OC.
2. FILL IN BLANK (SHOWN SHADED ON SCHEDULE) ON MARKER WITH BLACK PERMANENT MARKER OR BLACK ON YELLOW SELF-STICK NUMBERS. SO SIGN READS "110°F".
3. PLANT WATER IS A SEPERATE COLD WATER LINE, W/A REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER TO PROTECT THE DOMESTIC COLD WATER SUPPLY.



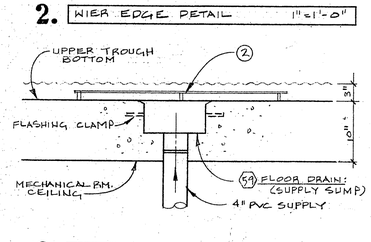
1A WATER FALL SKID RISER — N.T.S.

MFR. SUPPLIED EQUIPMENT
1. WATER FALL MODULE = WW-2-B-F2A-F5-3864
2. 36"x 36" BRASS DIVERTER PL = GA-36x36-BP
3. DIRECTIONAL EYE INLET = GG-150-NB
4. BRONZE FLOOR DRAIN = GD-200
5. WALL MTD. OVERFLOW = GR-200
6. ELEC. WATER LEVEL CONTROL = VC-100
7. 20" ϕ DIA. ANTI-VORTEX PL = GA-20-S

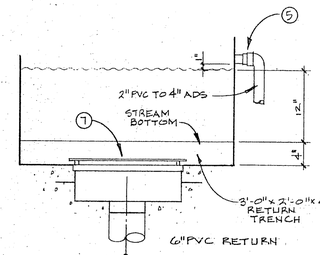
—DETAILS ONLY—
AS BUILT
AUGUST 1, 1992
1. DETAILS "2", "3", & "4" ARE ORIGINAL DESIGN AND ASSUMED TO BE AS-BUILT.
2. DETAIL "1" IS AS-BUILT.
3. FIXTURE NUMBERS 0 (ALL) & 59 ARE AS DESIGNED, AS BUILT FIXTURES ARE SIMILAR.

1. WATER FALL RISER DIAGRAM AND ISOMETRIC — NOT TO SCALE

2. WIER EDGE DETAIL 1"=1'-0"



3. SUPPLY SUMP DETAIL 1"=1'-0"



4. RETURN TRENCH DETAIL 1"=1'-0"

ORIGINAL DESIGN - NOT AS BUILT
1. DUE TO MULTIPLE PHASES IN COMPLETING PROJECT NO ATTEMPT WAS MADE TO VERIFY FIXTURE SCHEDULE.
2. DETAILS THIS SHEET ARE AS BUILT, EXCEPT FOR SPECIFIED FIXTURES.

6-9-89: CHANGES MADE TO FIXTURE SCHEDULE CONTRACT/NIC IDENTIFICATIONS (SEE NOTES ABOVE SCHEDULE); ADD "PLANT WATER" AND NOTE #3 TO PIPE MARKING SCHEDULE; RECHANGE ITEMS 23 & 59 FROM REVISION DATED 4-14-89

5-8-89: REMOVE REFERENCE OF "PVC BALL CHECK VALVE" AT ITEMS 31 AND 35

1-14-89: ADD ITEMS 44 AND 45 TO PLUMBING FIXTURE SCHEDULES; MADE CHANGES TO ITEMS 27, 41, 42, 49 AND 52; ITEMS CHANGED TO "FURNISHED BY OWNER (NIC)": 27, 39, 40, 42, 43, 58

12-12-88: ADD ITEM 60 TO FIXTURE SCHEDULE.

CHANGES MADE TO FIXTURE SCHED. ITEMS: 1, 3, 12, 13, 36, 40, 41, 42, 48, 49, 51, 56, 58

11-18-88

STUART WILLIAM GALLAHER, ARCHITECT, INC.
702 NORTH BLACKHAWK AVENUE
MADISON, WISCONSIN 53705

OLBRICH BOTANICAL COMPLEX
8330 ATWOOD AVENUE
MADISON, WISCONSIN

PLUMBING FIXTURE & CONNECTION SCHEDULES • PLUMBING PIPE MARKING SCHEDULE • WATERFALL RISER DIAGRAM • PLUMBING DETAILS

P-9.

ARCHITECT:

DESTREE DESIGN ARCHITECTS, INC.

222 WEST WASHINGTON AVE. SUITE 310
MADISON, WI 53703
PH: 608.268.1499
CONTACT: TYLER SMITH

STRUCTURAL ENGINEER:

MP-SQUARED STRUCTURAL ENGINEERS, LLC.

583 D'ONOFRIO DRIVE #201
MADISON, WI 53719
PH: 608.821.4774
CONTACT: MARK LINDLOFF

MEP ENGINEER:

HEIN ENGINEERING GROUP

319 WEST BELTLINE HWY #111
MADISON, WI 53713
PH: 608.288.9260
CONTACT: MIKE HEIN

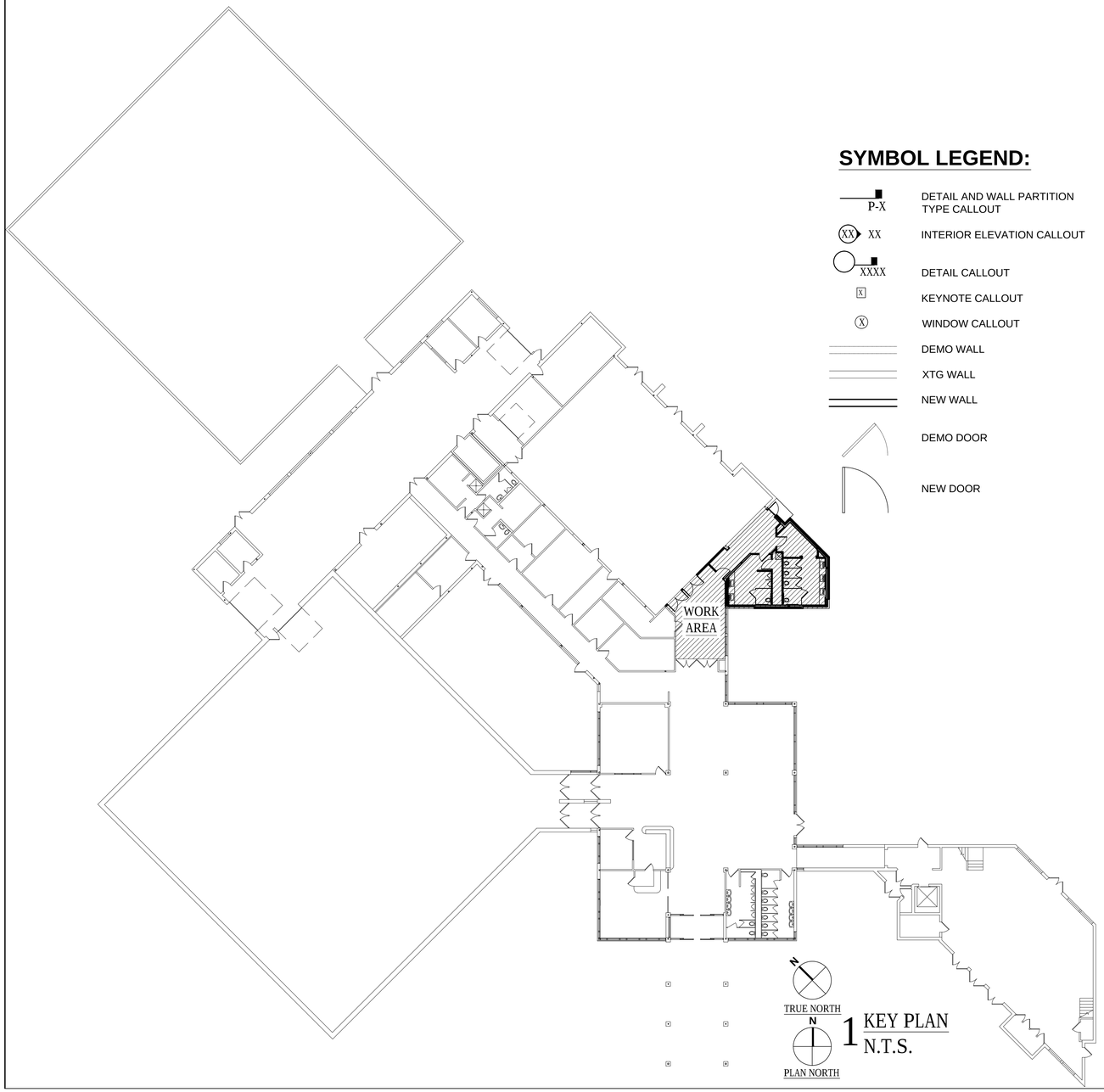
OLBRICH GARDENS

RESTROOM ADDITION

DECEMBER 12, 2012

3330 ATWOOD AVENUE

MADISON, WI



1 KEY PLAN
N.T.S.

SYMBOL LEGEND:

- P-X — DETAIL AND WALL PARTITION TYPE CALLOUT
- XX — INTERIOR ELEVATION CALLOUT
- XXXX — DETAIL CALLOUT
- X — KEYNOTE CALLOUT
- X — WINDOW CALLOUT
- DEMO WALL
- XTG WALL
- NEW WALL
- DEMO DOOR
- NEW DOOR

DEFINITIONS:

AFF -	ABOVE FINISHED FLOOR
ACT -	ACOUSTICAL CEILING TILE
BLDG -	BUILDING
CAB -	CABINET
CLG -	CEILING
COOR -	COORDINATE
CPT -	CARPET
CSWK -	CASEWORK
DEMO -	DEMOLITION
ELEV -	ELEVATION
EW -	EACH WAY
FD -	FLOOR DRAIN
FEC -	FIRE EXTINGUISHER CABINET
FLUOR -	FLUORESCENT
FCIC -	FURNISHIED BY CONTRACTOR INSTALLED BY CONTRACTOR
FOIC -	FURNISHIED BY OWNER INSTALLED BY CONTRACTOR
FOIO -	FURNISHIED BY OWNER INSTALLED BY OWNER
GC -	GENERAL CONTRACTOR
GWB -	GYPSUM WALL BOARD
HGT -	HEIGHT
HM -	HOLLOW METAL
MEP -	MECHANICAL, ELECTRICAL, PLUMBING
MTL -	METAL
NTS -	NOT TO SCALE
PLAM -	PLASTIC LAMINATE
PT -	PAINT
REQ -	REQUIRED
TYP -	TYPICAL
WD -	WOOD
XTG -	EXISTING

GENERAL NOTES:

1. FIELD VERIFY ALL DIMENSIONS, CONSULT ARCHITECT W/ INCONSISTENCIES.
2. CONTRACTOR TO COMPLY WITH ALL APPLICABLE BUILDING CODES.
3. DIMENSIONS ARE FROM EDGE OF STUD TO EDGE OF STUD, EXISTING PARTITION DIMENSIONS ARE FROM GWB WALL FINISH TO EDGE OF NEW STUD.
4. CONTRACTOR TO PREP AND LEVEL ALL FLOORS FOR 1/8" TOLERANCE.

ELECTRICAL/DATA NOTES:

1. SCHEDULE PRELIMINARY WALK-THRU W/ OWNER & ARCHITECT PRIOR TO INSTALL.
2. CONTRACTOR TO COORDINATE SUBMITTAL OF ALL NECESSARY DRAWINGS AND CALCULATIONS FOR APPROVAL.
3. SEE REFLECTED CEILING PLAN FOR LAYOUT PURPOSES. ENGINEERING OF LIGHTING, SWITCHING AND CIRCUITS BY ELECTRICIAN.
4. ELECTRICIAN TO PROVIDE, LOCATE AND INSTALL EMERGENCY EGRESS LIGHTING AND EXIT SIGNS AS REQUIRED BY FIRE MARSHALL, VERIFY LOCATIONS W/ ARCHITECT PRIOR TO INSTALL.
5. COORDINATE POWER REQUIREMENTS WITH OWNER & ARCHITECT.
6. LIGHTING FIXTURES TO BE BUILDING STANDARDS, OR AS NOTED ON LIGHT FIXTURE SCHEDULE.

HVAC NOTES:

1. CONTRACTOR TO COORDINATE SUBMITTAL OF ALL NECESSARY DRAWINGS AND CALCULATIONS FOR APPROVAL.
2. HVAC CONTRACTOR TO MODIFY EXISTING CONDITIONS AS REQUIRED PER DRAWINGS AND BUILDING STANDARDS.

FIRE ALARM NOTES:

1. CONTRACTOR TO COORDINATE SUBMITTAL OF ALL NECESSARY DRAWINGS AND CALCULATIONS FOR APPROVAL.
2. VERIFY WALL LOCATIONS OF ALL STROBE AND HORN LOCATIONS W/ ARCHITECT PRIOR TO INSTALLATION.

PLUMBING NOTES:

1. CONTRACTOR TO COORDINATE SUBMITTAL OF ALL NECESSARY DRAWINGS AND CALCULATIONS FOR APPROVAL.
2. CONTRACTOR TO MODIFY EXISTING CONDITIONS AS REQUIRED PER DRAWINGS AND BUILDING STANDARDS.

CODE SUMMARY:

PROJECT DESCRIPTION: LEVEL-2 ALTERATION OF XTG CORRIDOR, & ADA TOILET ROOM ADDITION.

OCCUPANCY: A-3

CONSTRUCTION TYPE: IIB- UNSPRINKLERED

HEIGHT:

STORIES:1 FLOORS: 1

SQUARE FOOTAGES

BUILDING FOOTPRINT = 40,514 SF
ALTERATION AREA = 401 SF
ADDITION FOOTPRINT = 585 SF

SHEET INDEX:

TITLE

T000	COVER

ARCHITECTURAL

A000	DEMOLITION PLAN
A100	FLOOR PLAN, CEILING PLAN, ROOF PLAN
A300	EXTERIOR ELEVATIONS
A700	INTERIOR ELEVATIONS
A800	DETAILS
A900	SCHEDULES
A901	SCHEDULES, ROOM FINISH PLAN

STRUCTURAL

S001	NOTES
S100	FOUNDATION PLAN, ROOF FRAMING PLAN
S601	DETAILS
S701	DETAILS
S702	DETAILS

MECHANICAL

H101	DEMO PLAN, NEW DUCTWORK PLAN
H102	RADIANT FLOOR PLAN, PIPING PLAN
H103	DETAILS, SCHEDULES

ELECTRICAL

E101	DEMO PLAN, LIGHTING PLAN, POWER PLAN
E102	SCHEDULES

PLUMBING

P100	UNDERGROUND PLUMBING PLAN
P101	PLUMBING PLAN
P102	RISER DIAGRAMS, SCHEUDLES

DESTREE
architecture & design
222 West Washington Ave. Suite 310, Madison, WI 53703
ph: 608.268.1499 fax: 608.268.1498 www.destreearchitects.com

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(mp)² STRUCTURAL ENGINEERS, LLC
583 D'onofrio Drive, Suite 201
Madison, WI 53719
Office: 608-821-4770
Fax: 608-821-4780

HEIN Engineering Group

OLBRICH GARDENS
RESTROOM ADDITION
3330 ATWOOD AVENUE
MADISON, WI

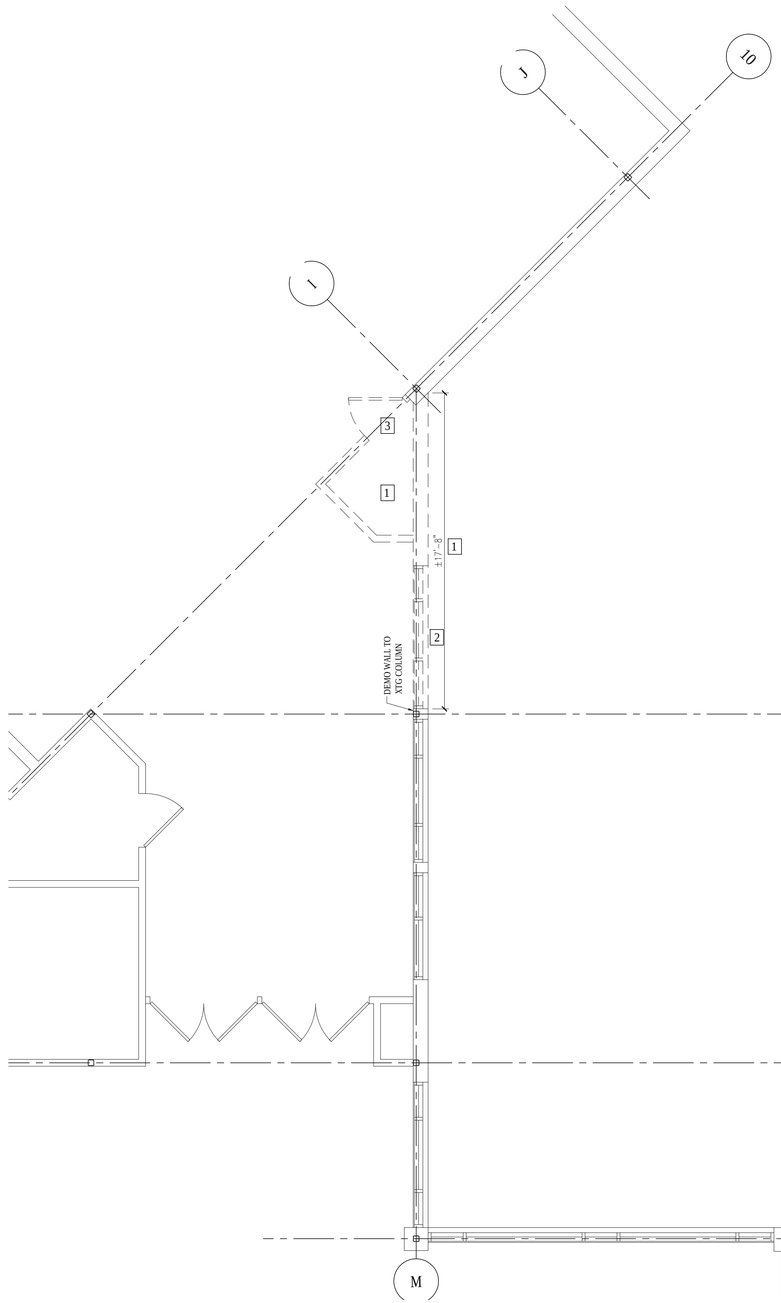
ISSUANCES:

CD'S	12.21.12
RECORD SET	01.03.14

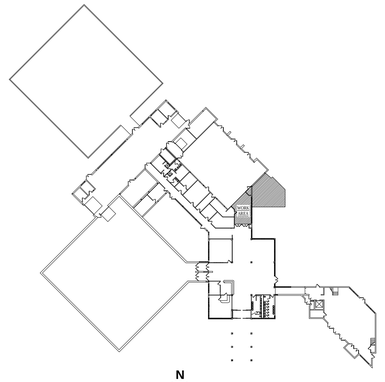
PROJECT:

NUMBER:	120410.00
DATE:	12.21.12
REV:	----

SHEET: T000



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



KEY PLAN

GENERAL NOTES

1. DASHED LINES DENOTE DEMOLITION
2. COORDINATE SALVAGE OF ALL DEMO'D MATERIALS WITH OWNER.
3. SEE H101 FOR HVAC DEMO.
4. SEE E101 FOR ELECTRICAL DEMO.

KEYNOTES

1 DEMO WALL

2 REMOVE WINDOW TO BE RELOCATED.

3 DEMO DOOR

DESTREE
architecture & design
222 West Washington Ave. Suite 310, Madison, WI 53703
ph: 608.268.1499 fax: 608.268.1498 www.destreearchitects.com

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(mp)² STRUCTURAL ENGINEERS, LLC
Office: 608-821-4770
Fax: 608-821-4780
583 D'onofrio Drive, Suite 201
Madison, WI 53719

HEIN Engineering Group

OLBRICH GARDENS RESTROOM ADDITION

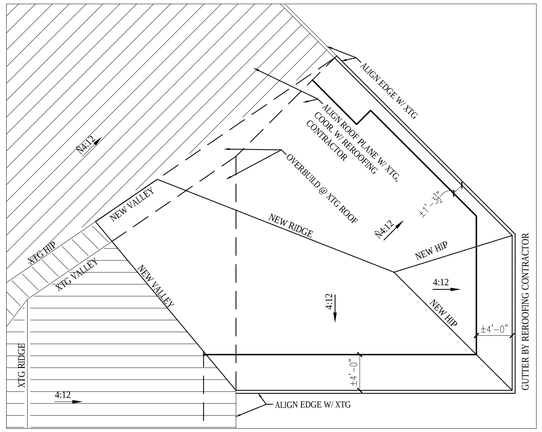
3330 ATWOOD AVENUE
MADISON, WI

ISSUANCES:	
CD'S	12.21.12
RECORD SET	01.03.14
PROJECT:	
NUMBER:	120410.00
DATE:	12.21.12
REV:	----

SHEET:
A000

GENERAL NOTES

1. ALL INTERIOR PARTITIONS TO BE TYPE P-1 UNLESS OTHERWISE NOTED.



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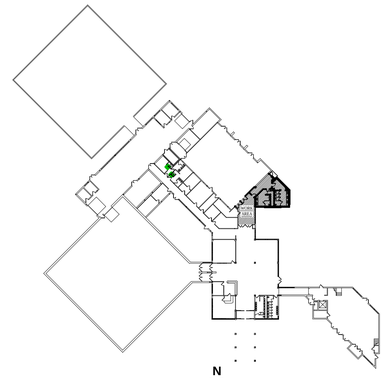
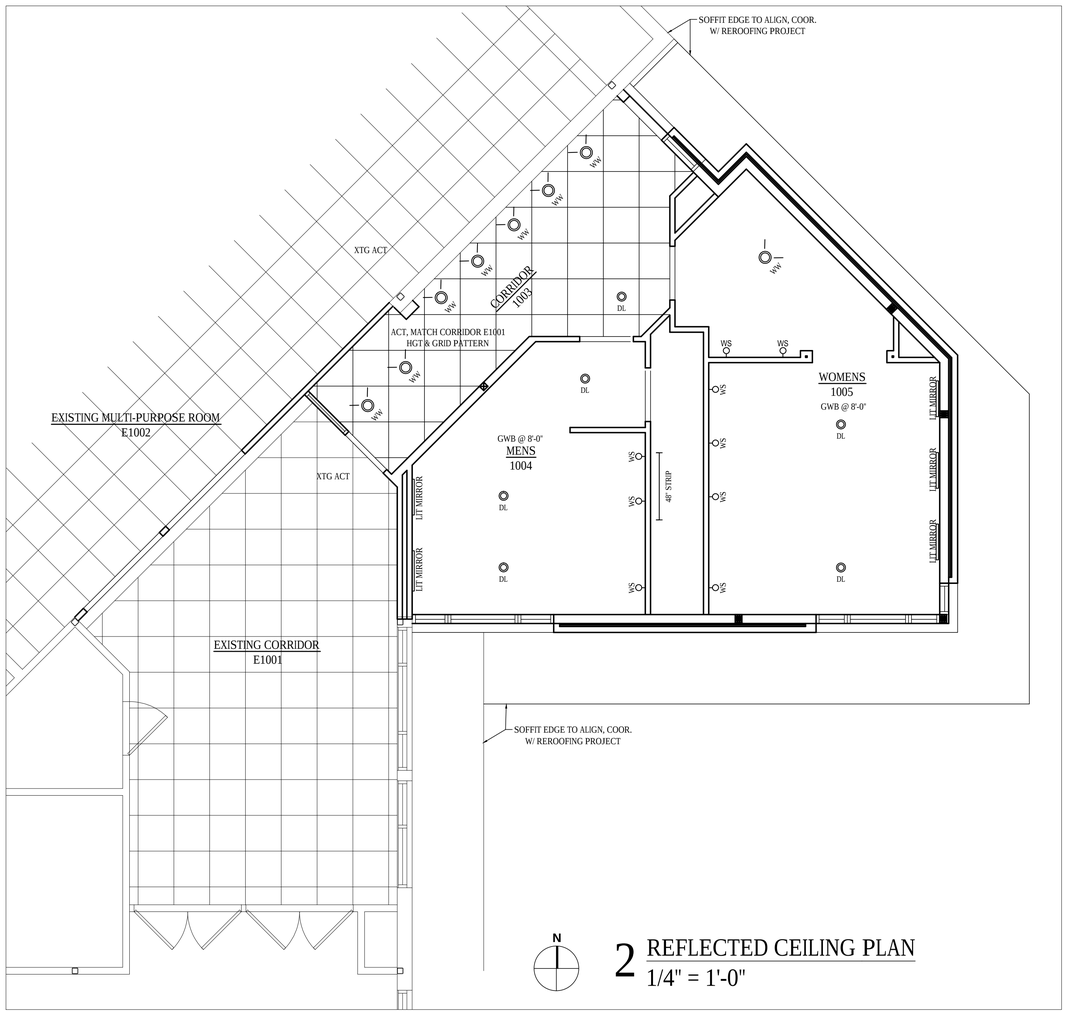
3 ROOF PLAN
1/8" = 1'-0"





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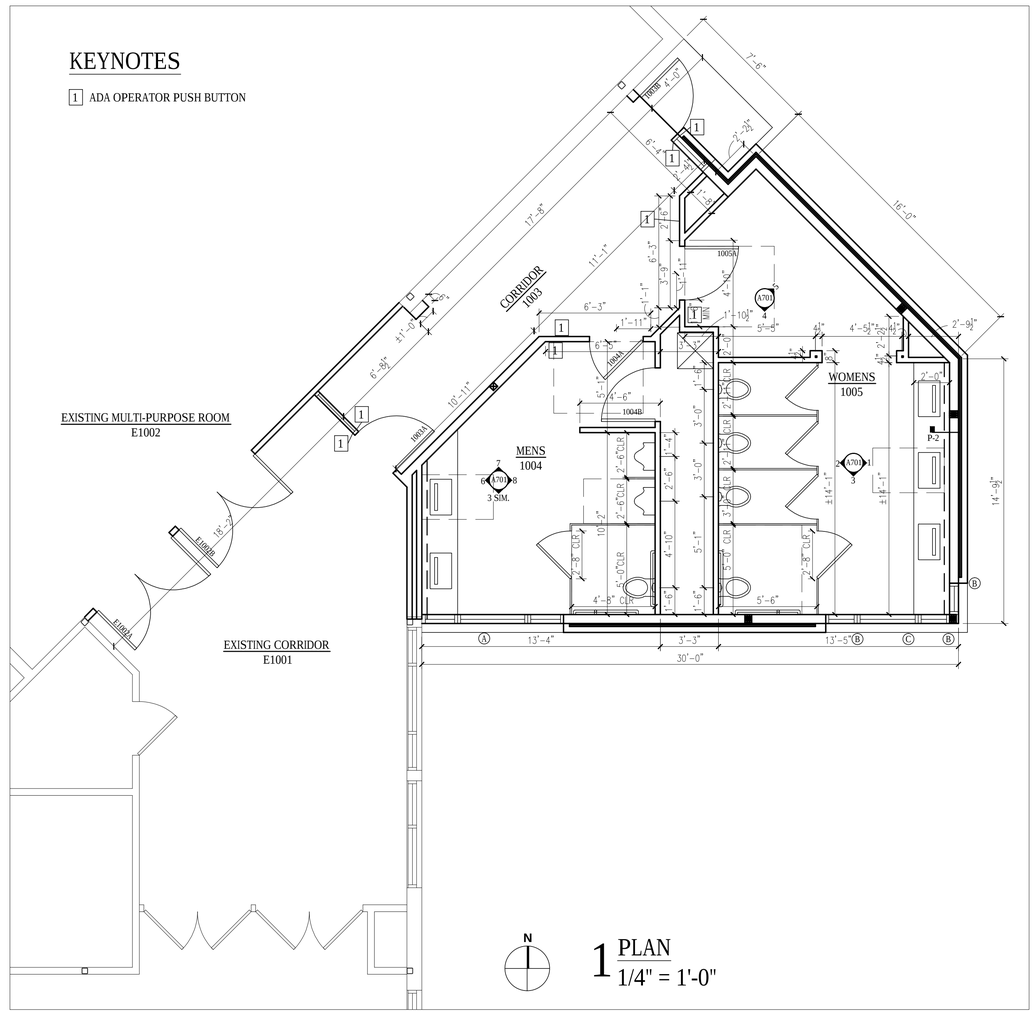
2 REFLECTED CEILING PLAN
1/4" = 1'-0"

KEYNOTES

1 ADA OPERATOR PUSH BUTTON



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

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ph: 608.268.1499 fax: 608.268.1498 www.destreearchitects.com

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(mp)² STRUCTURAL ENGINEERS, LLC
Office: 608-821-4770
Fax: 608-821-4780
583 D'onofrio Drive, Suite 201
Madison, WI 53719

HEIN Engineering Group

OLBRICH GARDENS RESTROOM ADDITION

3330 ATWOOD AVENUE
MADISON, WI

ISSUANCES:

CD'S	12.21.12
RECORD SET	01.03.14

PROJECT:

NUMBER:	120410.00
DATE:	12.21.12
REV:	----

SHEET:

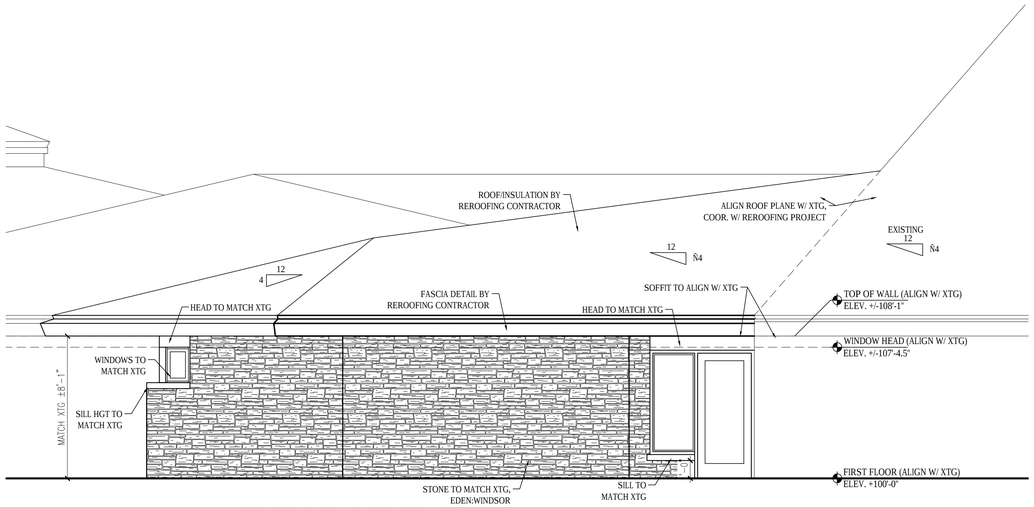
A100

GENERAL NOTES

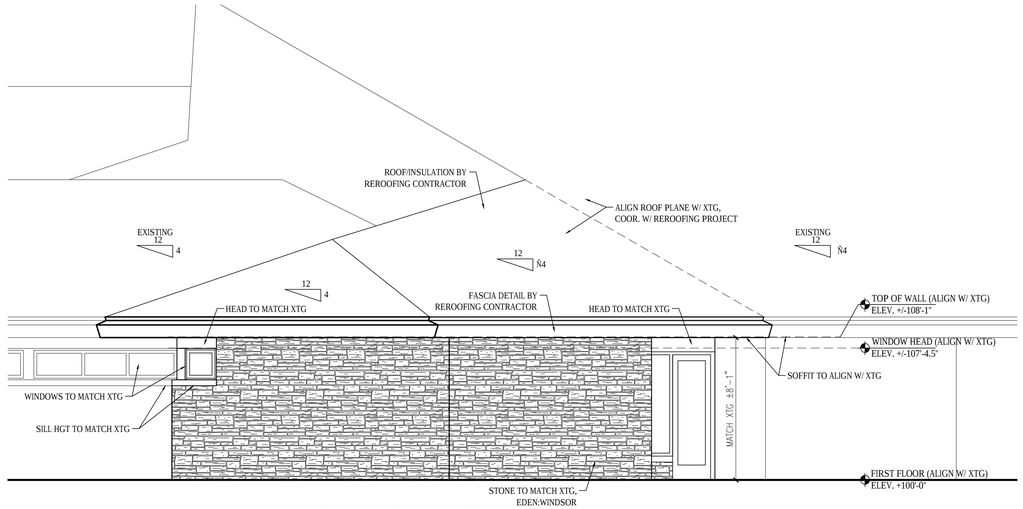
1. PATCH XTG MASONRY AS REQUIRED.
2. CONTRACTOR TO VERIFY ALL MASONRY EXPANSION JOINT LOCATIONS WITH ARCHITECT.
3. MATERIALS:

3.1. STONE: EDEN STONE INC. WINDSOR BLEND

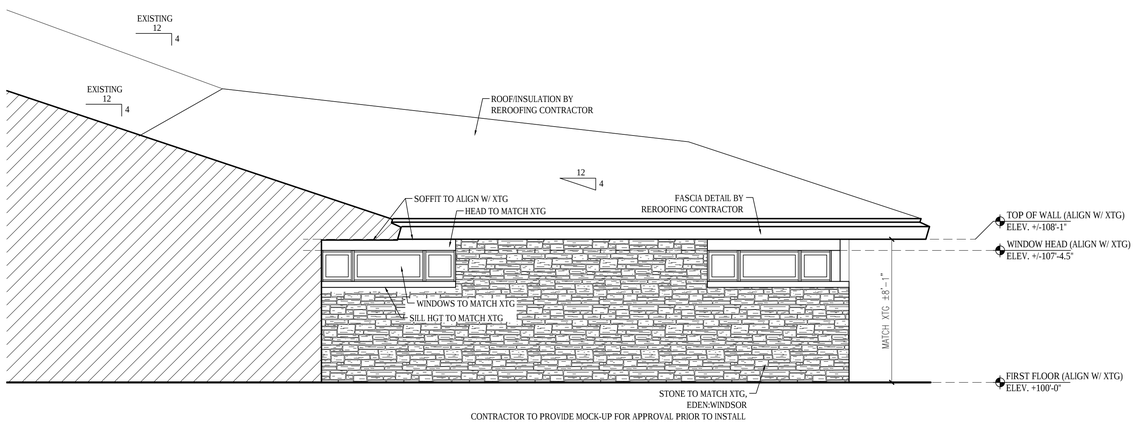
4. ROOFING/ROOF INSULATION TO BE BY OWNER PROVIDED CONTRACTOR.
5. SEE SPECIFICATION MANUAL FOR ADDITIONAL INFORMATION.



3 NORTH ELEVATION
1/4" = 1'-0"



2 EAST ELEVATION
1/4" = 1'-0"



1 SOUTH ELEVATION
1/4" = 1'-0"

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ph: 608.268.1499 fax: 608.268.1498 www.destreearchitects.com

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Office: 608-821-4770
Fax: 608-821-4780
583 D'onofrio Drive, Suite 201
Madison, WI 53719

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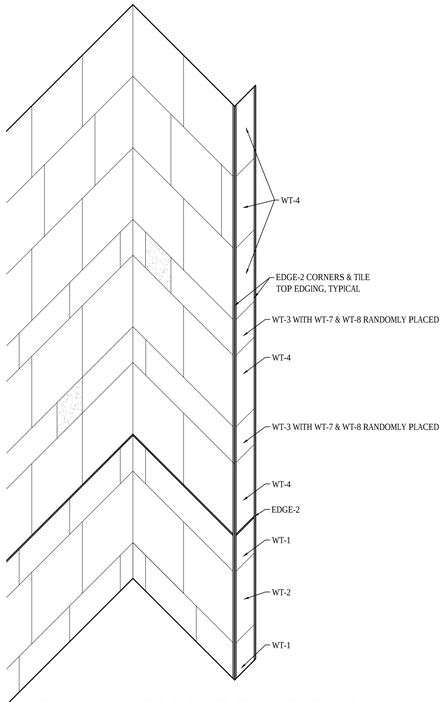
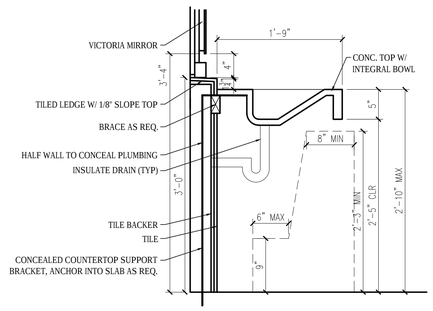
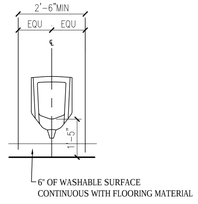
A300



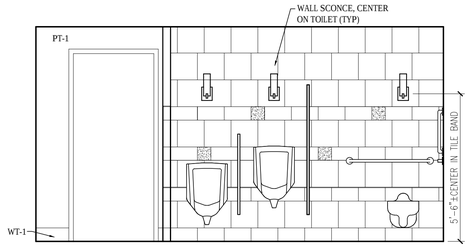
15 FULL HEIGHT TILE BANDING
1" = 1'-0"



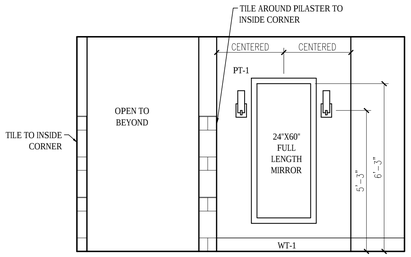
12 SECTION @ VANITY
1" = 1'-0"



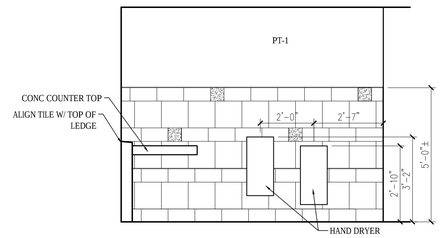
11 TYPICAL ADA ELEVATION
3/8" = 1'-0"



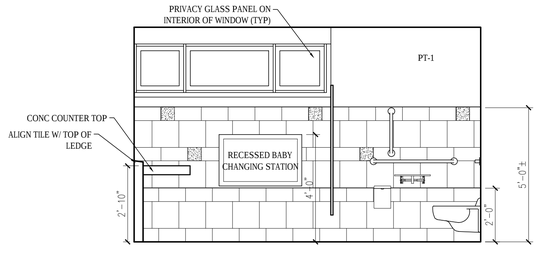
8 ELEVATION @ MEN'S TOILET ROOM
3/8" = 1'-0"



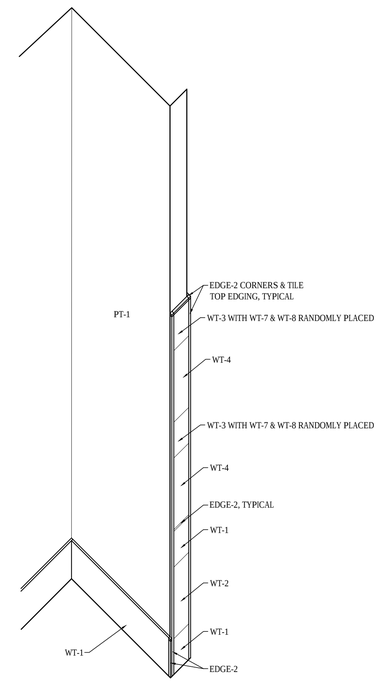
4 ELEVATION @ WOMEN'S TOILET ROOM
3/8" = 1'-0"



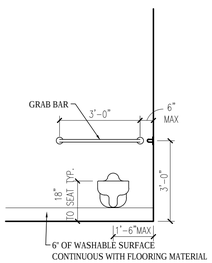
7 ELEVATION @ MEN'S TOILET ROOM
3/8" = 1'-0"



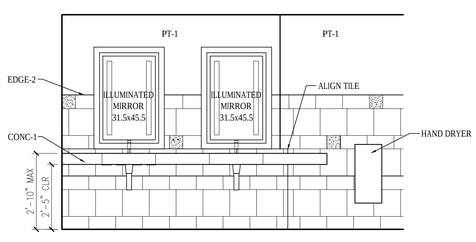
3 ELEVATION @ WOMEN'S TOILET ROOM
3/8" = 1'-0"



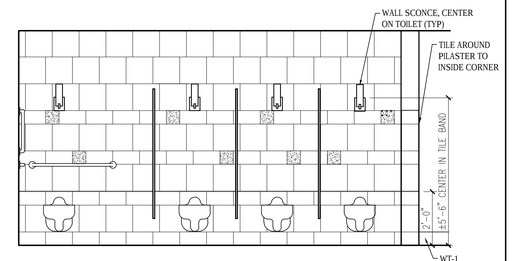
13 HALF HEIGHT TILE BANDING
1" = 1'-0"



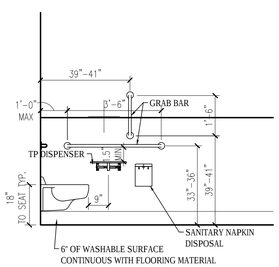
10 TYPICAL ADA ELEVATION
3/8" = 1'-0"



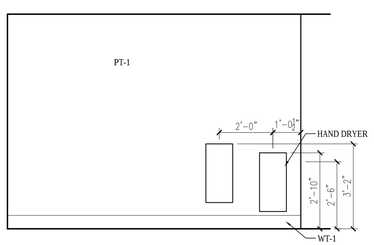
6 ELEVATION @ MEN'S TOILET ROOM
3/8" = 1'-0"



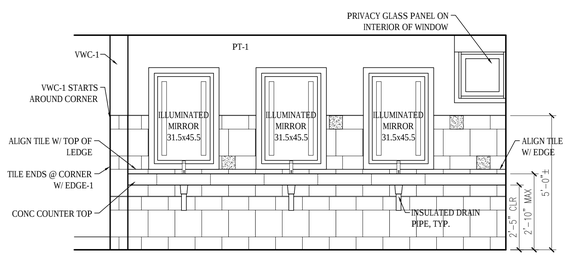
2 ELEVATION @ WOMEN'S TOILET ROOM
3/8" = 1'-0"



9 TYPICAL ADA ELEVATION
3/8" = 1'-0"



5 ELEVATION @ WOMEN'S TOILET ROOM
3/8" = 1'-0"



1 ELEVATION @ WOMEN'S TOILET ROOM
3/8" = 1'-0"

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architecture & design
222 West Washington Ave. Suite 310, Madison, WI 53703
ph: 608.268.1499 fax: 608.268.1498 www.destreearchitects.com

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OLBRICH GARDENS
RESTROOM ADDITION
3330 ATWOOD AVENUE
MADISON, WI

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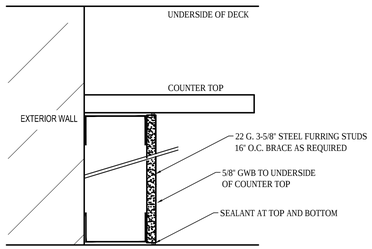
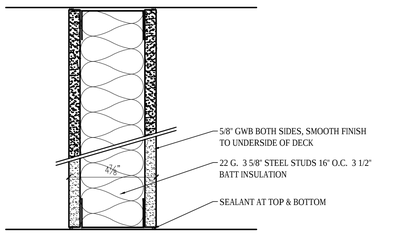
A700

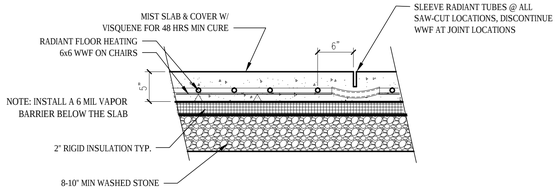


P-2

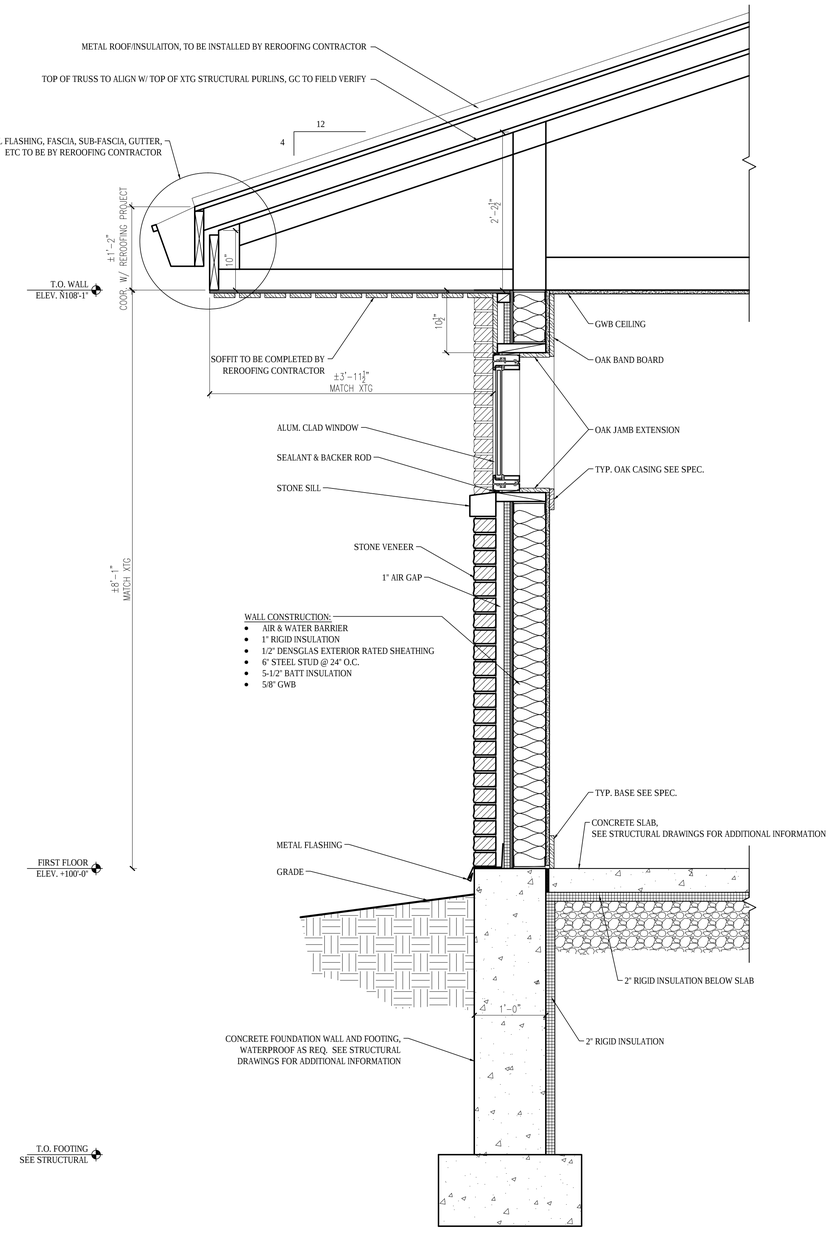


P-1

10 WALL PARTITION DETAILS
3" = 1'-0"



9 SLAB DETAIL
1" = 1'-0"



1 WALL SECTION
1" = 1'-0"

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(mp)² STRUCTURAL ENGINEERS, LLC
583 D'onofrio Drive, Suite 201
Madison, WI 53719
Office: 608-821-4770
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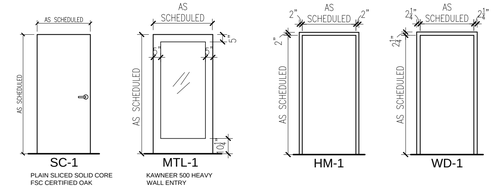
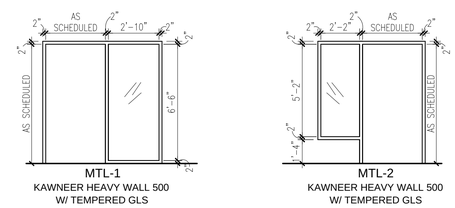
A800

DOOR SCHEDULE

#	SIZE	THK	MATERIAL	DR TYPE	FRAME TYPE	SIDELIGHT	GLASS	LOCK SET	RATING	CLOSER	REMARKS
E1002A	(2)3'-0"x7'-0"	1 3/4"	OAK	SC-1	WD-1	---	---	YES	---	YES W/ HOLDOPEN	KICKPLATE, KICK-DOWN HOLD OPEN
E1002B	(2)3'-0"x7'-0"	1 3/4"	OAK	SC-1	WD-1	---	---	YES	---	YES W/ HOLDOPEN	KICKPLATE, KICK-DOWN HOLD OPEN
1003A	3'-0"x7'-0"	2"	ALUMINUM	MTL-1	MTL-1	YES	YES	YES	---	YES	ADA THRESHOLD, KICKPLATE, ADA OPERATOR, ALARM ROUGH-IN, EGRESS HARDWARE, KICK-DOWN HOLD OPEN
1003B	3'-0"x7'-0"	2"	ALUMINUM	MTL-1	MTL-2	YES	YES	YES	---	YES	ADA THRESHOLD, SWEEP, KICKPLATE, ADA OPERATOR, ALARM ROUGH-IN, EGRESS HARDWARE
1004A	3'-0"x7'-0"	1 3/4"	OAK	SC-1	WD-1	---	---	PUSH/PULL	---	YES	KICKPLATE, ADA OPERATOR
1004B	3'-0"x7'-0"	1 3/4"	OAK	SC-1	WD-1	---	---	STOREROOM	---	YES	
1005A	3'-0"x7'-0"	1 3/4"	OAK	SC-1	WD-1	---	---	PUSH/PULL	---	YES	KICKPLATE, ADA OPERATOR

NOTES:
1. ALL DOORS TO HAVE 4" RETURN ON HINGE SIDE UNLESS OTHERWISE NOTED.
2. VERIFY LOCKING W/ OWNER, CONTRACTOR TO COOR. KEYING TO MATCH XTG.
3. NEW WOOD DOORS TO BE PLAIN SLICED SOLID CORE CERTIFIED OAK, FACTORY FINISHED W/ STAIN TO MATCH XTG
4. NEW LEVERS TO BE SCHLAGE AL SERIES, JUPITER LEVER IN US10B FINISH (OIL RUBBED BRONZE)
5. DOOR STOPS,HINGES AND CLOSERS TO MATCH HARDWARE SELECTION UNLESS OTHERWISE NOTED.
6. CONTRACTOR TO FIELD VERIFY ALL DOOR OPENINGS PRIOR TO ORDERING.
7. HOLLOW METAL FRAMES TO BE PAINTED PT-2, SEE FINISH SCHEDULE FOR ADDITIONAL INFORMATION.
8. ARCHITECT TO APPROVE DOOR AND HARDWARE SHOPS PRIOR TO ORDERING.
9. CONTRACTOR TO COORDINATE FOIC DOOR SIGNAGE WITH OWNER.

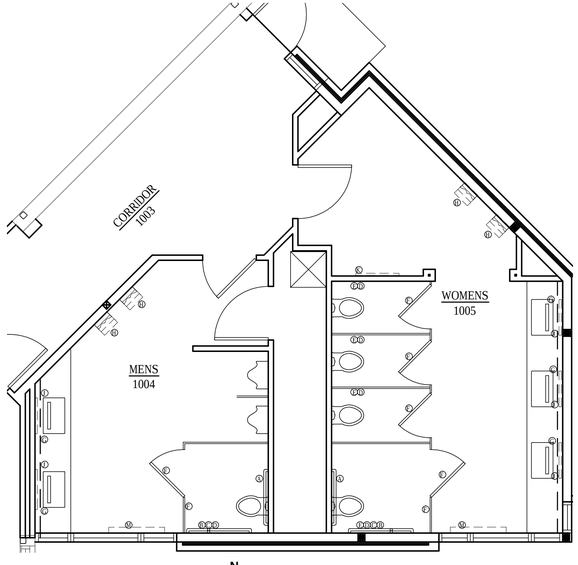




WINDOW SCHEDULE

CALLOUT	FRAME SIZE	ROUGH OPENING	TYPE	MODEL NUMBER	REMARKS
(A)	XTG	8'-0" x 1'-9-3/4"	XTG	XTG	RELOCATED WINDOW, PRIVACY GLASS PANEL ON INTERIOR
(B)	1'-9" x 1'-9"	1'-9-3/4" x 1'-9-3/4"	TRANSOM	2121	FROSTED PRIVACY GLASS PANEL ON INTERIOR
(B)	3'-5" x 1'-9"	3'-5-3/4" x 1'-9-3/4"	AWNING	4121	FROSTED PRIVACY GLASS PANEL ON INTERIOR

NOTES:
1. CONTRACTOR TO FIELD VERIFY ALL OPENINGS PRIOR TO ORDERING.
2. WINDOWS ARE SPECIFIED AS PELLA TO MATCH EXISTING.
3. ARCHITECT TO APPROVE WINDOW AND HARDWARE SHOPS PRIOR TO ORDERING.
4. EXTERIOR CLAD AND INTERIOR WOOD TO MATCH XTG WINDOWS.
5. CONTRACTOR TO VERIFY ALL SILLS, RAILS, STYLES, ETC. SIZES MATCH XTG WINDOWS.
6. HARDWARE FINISH TO MATCH XTG WINDOWS.
7. DOOR STOPS,HINGES AND CLOSERS TO MATCH HARDWARE SELECTION UNLESS OTHERWISE NOTED.
8. CONTRACTOR TO COORDINATE FOIC DOOR SIGNAGE WITH OWNER.
9. PRIVACY GLASS TO BE INSTALLED ON INSIDE OF WINDOW FRAME, STOPS TO BE STAINED TO MATCH WINDOW FRAME.



1 ACCESSORY KEY PLAN
1/4" = 1'-0"

TOILET ROOM ACCESSORY SCHEDULE

KEY	ITEM	MANUF.	MODEL #	REMARKS
A	36" GRAB BAR	BOBRICK	B-6806	OR EQUAL
B	42" GRAB BAR	BOBRICK	B-6806	OR EQUAL
C	18" VERTICAL GRAB BAR	BOBRICK	B-6806	OR EQUAL
D	TOILET PAPER DISPENSER	BOBRICK	B-2840	OR EQUAL, WITH THEFT RESISTANT SPINDLE
E	SANITARY DISPOSAL	BOBRICK	B-270	OR EQUAL
F	COAT HOOK	BOBRICK	B-6727	OR EQUAL
G	SOAP DISPENSER	BOBRICK	B-826	HARD WIRED
H	HAND DRYER	DYSON		
J	VANITY MIRROR	MAJESTIC	VICTORIA	BACK-LIT MIRROR, VERIFY LEAD TIME
K	FULL LENGTH MIRROR	MAJESTIC	CUSTOM	24"X60" MIRROR W/ FRAME TO MATCH THE VICTORIA, VERIFY LEAD TIME
M	BABY CHANGING STATION	KOALA	KB110-SSRE	USE 3.5" BATT INSULATION IN BEHIND, DO NOT COMPRESS 5.5" INSULATION

NOTES:
1. ALL ACCESSORIES TO BE INSTALLED PER ADA REQUIREMENTS.

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ROOM FINISH SCHEDULE

		FLOORING		CASEWORK	WALLS				CEILING		
#	ROOM	MATERIAL	BASE	COUNTERS	NORTH	EAST	SOUTH	WEST	MATERIAL	HGT	REMARKS
E1001	EXISTING CORRIDOR	XTG	XTG	---	---	---	---	---	XTG	XTG	PATCH ALL FINISHES AS REQ. TO MATCH ADJACENT XTG, WOOD CROWN BAND TO MATCH XTG
E1002	EXISTING MULTI-PURPOSE ROOM	XTG	XTG	---	---	---	---	---	XTG	XTG	
1003	CORRIDOR	TILE-1/TILE-2	TB-1	---	STONE-1/PT-2	PT-2	PT-2	PT-2	PT-4	8'-0"	
1004	MENS TOILET ROOM	TILE-1/TILE-2	WT-1	CONC-1	TILE/PT-1	TILE/PT-1	TILE/PT-1	TILE/PT-1	PT-4	8'-0"	
1005	WOMENS TOILET ROOM	TILE-1/TILE-2	WT-1	CONC-1	PT-1	TILE/PT-1	TILE/PT-1	TILE/PT-1	PT-4	8'-0"	

NOTES:

1. CONTRACTOR TO SUBMIT ALL MATERIAL SAMPLES TO ARCHITECT FOR APPROVAL PRIOR TO INSTALL.
2. SEE SPECIFICATION BOOK FOR ADDITIONAL MATERIAL SELECTION INFORMATION.
2. PAINT ON ALL METAL SURFACES (DOORS, DOOR FRAMES, FINNED TUBE COVERS, IN WALL SUPPLY/RETURN GRILLES, ETC.) TO BE SPRAY APPLIED.
3. WALL TEXTURE TO MATCH ADJACENT WALLS AT PATCH/INFILL LOCATIONS.
4. WALL TEXTURE AT NEW WALLS TO BE LIGHT ORANGE PEEL.
5. PAINT ENTIRE WALL AT PATCH/INFILL LOCATIONS.
6. ALL WALL PANELS/GRILLES/VENTS TO BE PAINTED WALL COLOR.
7. TILE BASE TO BE INSTALLED AT ALL NEW TILE FLOOR LOCATIONS.
8. ALL GROUT TO BE EPOXY TYPE.
9. GROUT AT TILE-1 TO MATCH XTG, CONTRACTOR TO PROVIDE GROUT MIXED MOCK-UP FOR ARCHITECT TO APPROVE, PRIOR TO INSTALL.

ROOM FINISH SELECTIONS:

FLOOR:

TILE-1: UNICOM STARKER, NATURAL SLATE COLLECTION, COLOR: AUTUMN, SIZE: 16"X 24", CONTACT: MARK KUEPPER, INSULATION & SUPPLY, 920.757.1516
GROUT: LATICRETE, 00% EPOXY, COLOR: 67 AUTUMN GREEN

TILE-2: CROSSVILLE, COLLECTION: COLOR BLOX, COLOR: TREE HOUSE A1114, SIZE: 6"X12"
GROUT: LATICRETE, 100% EPOXY, COLOR: 67 AUTUMN GREEN

BASE:

TB-1: UNICOM STARKER, NATURAL SLATE COLLECTION, COLOR: AUTUMN, SIZE: 4"X16", CONTACT: MARK KUEPPER, INSULATION & SUPPLY, 920.757.1516
GROUT: LATICRETE, 100% EPOXY, COLOR: 67 AUTUMN GREEN

WB-1: PATCH AS REQ. MATCH XTG 3-1/2"x3/4" SQUARE STOCK, FILL, SEAL, STAIN W/ 2-COATS SATIN "NATURAL"

TRIM:

CEILING BAND BOARD: PATCH AS REQ. MATCH XTG 11-1/4"x3/4", FILL, SEAL, STAIN W/ 2-COATS SATIN "NATURAL"

WALL:

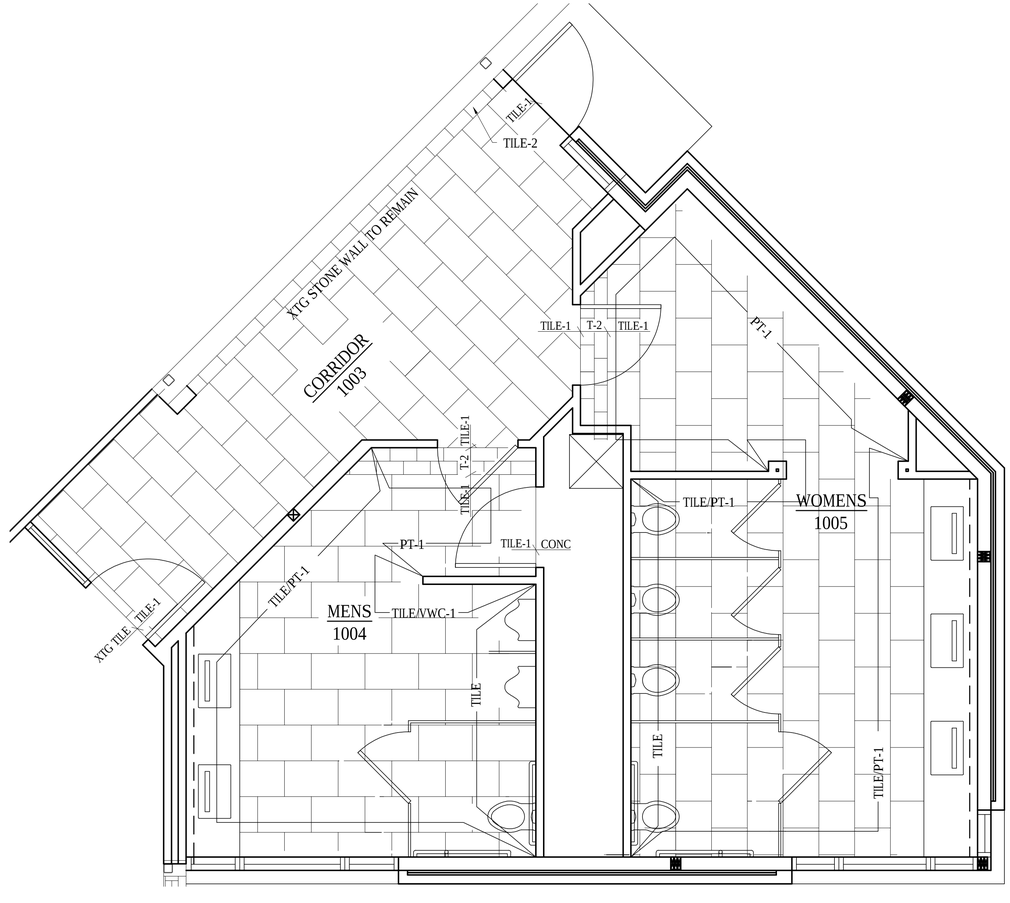
PT-1: SHERWIN WILLIAMS, STUCCO 7569, EGGSHELL (MAIN)
PT-2: SHERWIN WILLIAMS, PEARLY WHITE 7009, EGGSHELL (MAIN)
PT-3: MATCH EXISTING, SEMI-GLOSS (METAL DOOR FRAMES)
PT-4: MATCH EXISTING (CEILING)
WT-1: CROSSVILLE, COLLECTION: COLOR BLOX, COLOR: TREE HOUSE A1114, SIZE: 6"x12"
GROUT: LATICRETE, 100% EPOXY, COLOR: 67 AUTUMN GREEN
WT-2: CROSSVILLE, COLLECTION: COLOR BLOX, COLOR: TREE HOUSE A1114, SIZE: 12"x18"
GROUT: LATICRETE, 100% EPOXY, COLOR: 67 AUTUMN GREEN
WT-3: CROSSVILLE, COLLECTION: COLOR BLOX, COLOR: SAND BOX A1101, SIZE: 6"x12"
GROUT: LATICRETE, 100% EPOXY, COLOR: 39 MUSHROOM
WT-4: CROSSVILLE, COLLECTION: COLOR BLOX, COLOR: SAND BOX A1001, SIZE: 12"x18"
GROUT: LATICRETE, 100% EPOXY, COLOR: 39 MUSHROOM
WT-5: CROSSVILLE, MIXOLOGY BRONZE COLLECTION, FLORAL MEDALLION, 6"x6" DECO, MX101.10606FM
(18 TILES RANDOMLY PLACED PER DETAIL 15/A700)
GROUT: LATICRETE, 100% EPOXY, COLOR: 39 MUSHROOM
WT-6: CROSSVILLE, MIXOLOGY BRONZE COLLECTION, VINE, 6"x6" DECO, MX101.10606V
(18 TILES RANDOMLY PLACED PER DETAIL 15/A700)
GROUT: LATICRETE, 100% EPOXY, COLOR: 39 MUSHROOM
STONE-1: XTG STONE
EDGE-1: SCHLUTER SYSTEMS, QUADEC(Q-80-ABGB), BRUSHED ANTIQUE BRONZE ANODIZED ALUMINUM

COUNTER TOPS:

CONC-1: CUSTOM CRETEWERKS INTEGRAL CONCRETE COUNTERTOPS & SINK, N-EARTHED COLOR COLLECTION, COLOR: ASH, SINK: GATES 24"

TOILET PARTITIONS:

HADRIAN TOILET PARTITIONS, FLOOR TO CEILING MOUNTED AND WALL HUNG URINAL SCREEN, 815 BRONZE METALLIC POWDER COATED



N

1 SCHEDULES
3/8" = 1'-0"

DESTREE
architecture & design
222 West Washington Ave. Suite 310, Madison, WI 53703
ph: 608.268.1499 fax: 608.268.1498 www.destreearchitects.com

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(mp)2 STRUCTURAL ENGINEERS, LLC
Office: 608-821-4770
Fax: 608-821-4780
583 D'onofrio Drive, Suite 201
Madison, WI 53719

HEIN Engineering Group

OLBRICH GARDENS
RESTROOM ADDITION
3330 ATWOOD AVENUE
MADISON, WI

ISSUANCES:

CD'S	12.21.12
RECORD SET	01.03.14

PROJECT:

NUMBER:	120410.00
DATE:	12.21.12
REV:	----

SHEET:
A901

LOADING:

1. DESIGNED IN ACCORDANCE WITH THE CURRENT WISCONSIN COMMERICAL BUILDING CODE BASED ON IBC 2009.

2. DESIGN LOADS:

2.1. ROOF DEAD LOAD:
15 PSF
2.2. ROOF LIVE LOAD:
20 PSF (REDUCIBLE)
2.3. DESIGN SNOW LOAD:
Pg = 30.0 PSF
Pf = 0.7(Ce)(Ct)(Cs)(I)(Pg)
Ce = 1.0
Ct = 1.10
Cs = 1.0
I = 1.0
UNIFORM ROOF DESIGN SNOW LOAD = 23.1 PSF
NOTE: UNBALANCED SNOW & DRIFTING SNOW CONSIDERED FOR DESIGN. SEE ROOF FRAMING PLAN FOR ADDITIONAL LOADING.
2.4. WIND DESIGN CRITERIA
WIND SPEED = 90 MPH
EXPOSURE = B
I = 1.0
Kzt = 1.0
GCpi = +/- .018
WIND PRESSURE = 20 PSF
2.5. SEISMIC DESIGN CRITERIA:
SEISMIC USE GROUP = I
SDS = 0.104
SD1 = 0.044
SITE CLASS = D
SEISMIC DESIGN CATEGORY = B
SEISMIC RESISTING SYSTEM = LIGHT FRAME WALLS WITH SHEAR PANELS
TOTAL BASE SHEAR = 0.055*W

GENERAL:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF ALL CONDITIONS PRIOR TO BIDDING. THIS INCLUDES INSURING ERECTION CAN BE PERFORMED AS DETAILED ON THE PLANS. IF MODIFICATIONS ARE NEEDED TO FACILITATE ERECTABILITY THE BIDDING CONTRACTOR SHALL NOTIFY THE OWNER, ARCHITECT AND ENGINEER AND CLEARLY COMMUNICATE ASSUMPTIONS IN BID DOCUMENTS. THE ENGINEER WILL NOT BE RESPONSIBLE FOR ADDITIONAL COSTS DUE TO REQUIRED MODIFICATIONS OF THESE PLANS TO FACILITATE ERECTION SEQUENCING ETC.

2. THE CONTRACTOR IS RESPONSIBLE FOR LIMITING THE AMOUNT OF CONSTRUCTION LOAD IMPOSED UPON NEW OR EXISTING STRUCTURAL FRAMING. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN CAPACITY OF THE FRAMING AT THE TIME THE LOADS ARE IMPOSED.

3. THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION. THE CONTRACTOR IS RESPONSIBLE FOR HAVING AN INDEPENDENT ENGINEER DESIGN AND FURNISHING ALL TEMPORARY BRACING AND/OR SUPPORT THAT MAY BE REQUIRED AS THE RESULT OF THE CONTRACTOR'S CONSTRUCTION METHODS AND/OR SEQUENCES. THE STRUCTURAL ENGINEER SEAL ON THESE DRAWINGS ASSUMES NO LIABILITY FOR THE STRUCTURE DURING CONSTRUCTION.

4. THE CONTRACTOR IS RESPONSIBLE FOR ALL MEANS AND METHODS OF CONSTRUCTION AND ALL JOB SITE SAFETY.

5. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF ALL BUILDING MATERIALS AND COMPONENTS. COMPONENT LOCATIONS ARE SHOWN FOR DESIGN INTENT, NOT EXACT LOCATION, UNLESS NOTED SPECIFICALLY. INDEPENDENTLY PREPARED SHOP DRAWINGS ARE REQUIRED OF ALL TRADES FOR COORDINATION AND BEST PRACTICE. ERRORS OR OMISSIONS IN INSTALLATION DUE TO THE CONTRACTOR'S FAILURE TO COORDINATE THE WORK WILL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR

6. THE CONTRACTOR SHALL FIELD VERIFY ALL SIZES, DIMENSIONS, ELEVATIONS AND LOCATIONS, ETC. OF ELEMENTS OF THE EXISTING CONSTRUCTION WHICH ARE RELATIVE TO THE NEW CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER IMMEDIATELY OF ANY DESCREPANCIES BETWEEN CONSTRUCTION DOCUMENTS AND ACTUAL FIELD CONDITIONS.

7. THE ENGINEER HAS MADE ASSUMPTIONS CONCERNING THE SOUNDNESS OF THE EXISTING BUILDING, INCLUDING THAT THE EXISTING BUILDING WAS DESIGNED AND CONSTRUCTED IN CONFORMITY WITH GOOD DESIGN AND CONSTRUCTION PRACTICES. THE CONTRACTOR SHALL TAKE EXTRAORDINARY PRECAUTIONS CONCERNING PRESERVATION OF THE BUILDING DURING DEMOLITION AND NEW CONSTRUCTION WORK. THE CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY FOR THE PRESERVATION OF THE EXISTING STRUCTURE.

FOUNDATION:

1. NET ALLOWABLE SOIL BEARING CAPACITY: 2,000 PSF (ASSUMED – CONTRACTOR TO FIELD VERIFY).

2. PROJECT GEOTECHNICAL REPORT SUPERSEDES GEOTECHNICAL INFORMATION PROVIDED ON STRUCTURAL PLANS.

3. WHEN IT IS POSSIBLE FOR GROUND WATER TO SEEP TOWARD SUBGRADE FOUNDATIONS AND RETAINING WALLS, THESE WALLS SHALL HAVE A POSITIVE DRAINAGE SYSTEM AT THE BASE OF THE WALL CONSISTING OF A PERFORATED DRAIN PIPE PROTECTED BY A GEOTEXTILE FABRIC SURROUNDED BY CONCRETE SAND (TORPEDO SAND). NEAR THE BASE OF THE WALL. OTHER BACK FILL MATERIAL SHALL BE SAND WITH LESS THAN 12% PASSING THE #200 SIEVE.

4. DO NOT USE EXCESSIVE COMPACTION EFFORTS ADJACENT TO BASEMENT OR RETAINING WALLS. SUCCESSIVE PASSES OF A COMPACTOR CAN RESULT IN WALL PRESSURE BUILD UP BEYOND THE DESIGN INTENT.

5. REFER TO THE GEOTECHNICAL INVESTIGATION FOR INFORMATION REGARDING EXCAVATION, SIDE SLOPES, SUB-GRADE PREPARATION, AND FILL RECOMMENDATIONS.

6. PROVIDE SUB-GRADE PREPARATION AS PER THE PLANS OR PROJECT GEOTECHNICAL REPORT.

7. WHEN UNDERPINNING IS REQUIRED EXISTING FOOTINGS SHALL BE SEQUENTIALLY UNDERPINNED WITH UNDERMINED FOOTING SEGMENTS NOT TO EXCEED 4'-0" AT ANY TIME WITHOUT PRIOR AUTHORIZATION. THE GENERAL CONTRACTOR SHALL SUBMIT FOR REVIEW TO THE PROJECT STRUCTURAL ENGINEER A DETAILED CONSTRUCTION SEQUENCE PLAN. THE PLAN SHALL INCLUDED INTENDED METHODS, MATERIALS AND A PRECONSTRUCTION SURVEY OF THE EXISTING BUILDING AND HAVE PROVISIONS FOR MONITORING THE EXISTING CRACKS.

8. REMOVE TOPSOIL FROM BENEATH ALL PROPOSED CONSTRUCTION AREAS. SALVAGE AND STOCK PILE TOPSOIL, CUT/FILL MATERIAL AS NECESSARY TO MATCH GRADES SHOWN ON DRAWINGS.

9. GRADE AREAS IN ACCORDANCE WITH ELEVATIONS AND GRADES SHOWN ON THE SITE DRAWINGS AND AS REQUIRED FOR DRAINAGE.

10. SLAB ON GROUND TO BE CONSTRUCTED ON A MINIMUM OF 6" OF CRUSHED STONE OR GRANULAR FILL COMPACTED TO 95% MODIFIED PROCTOR OR AS DIRECTED BY THE GEOTECHNICAL ENGINEER.

11. ALL FILL MATERIAL USED IN GRADING OPERATIONS SHALL CONSIST OF EARTH, WHICH IS FREE OF DEBRIS, BOULDERS OR ORGANIC MATERIAL. FILL SHALL BE PLACED IN MAXIMUM OF 12" LIFTS AND COMPACTED TO 95% OF MODIFIED PROCTOR MAXIMUM DRY DENSITY OR AS DIRECTED BY THE GEOTECHNICAL ENGINEER.

12. THE BOTTOM OF ALL EXTERIOR FOOTINGS SHALL BE A MINIMUM OF 4'-0" BELOW FINISHED GRADE.

13. ALL FOOTINGS SHALL BEAR ON UNDISTURBED SOIL OR COMPACTED FILL HAVING A MINIMUM ALLOWABLE BEARING CAPACITY EQUAL TO THE PRESUMPTIVE CAPACITY ABOVE.

14. THE ENGINEER SHALL BE NOTIFIED IF ACTUAL FIELD CONDITIONS DO NOT MEET BEARING REQUIREMENTS, OR IF QUESTIONABLE SOIL CONDITIONS ARE DISCOVERED INCLUDING BUT NOT LIMITED TO PEAT AND OTHER HIGH ORGANIC SOILS.

15. ALL BEARING SOIL OR FILL MUST BE PROTECTED FROM FREEZING. THE CONTRACTOR SHALL PROVIDE PROTECTION TO PREVENT FROST PENETRATION BELOW THE CONCRETE BEARING ELEVATIONS. ANY FROZEN SOIL BELOW THE FOUNDATION BEARING LEVEL MUST BE REMOVED PRIOR TO PLACING CONCRETE.

16. ALL SLABS ON GRADE AREAS SHALL BE PROOF ROLLED. ALL SOFT SPOTS SHALL BE REMOVED AND REPLACED WITH COMPACTABLE FILL.

CONCRETE CONSTRUCTION:

1. ALL CONCRETE DESIGN AND CONSTRUCTION SHALL CONFORM TO THE LOCAL BUILDING CODE REQUIREMENTS AND THOSE OF THE LATEST EDITION OF THE FOLLOWING STANDARDS: ACI 318, ACI 315, ACI 301, AND ACI 305 & 306.

2. ALL CONCRETE UNLESS SPECIFICALLY NOTED SHALL BE NORMAL WEIGHT (145 PCF) AND SHALL ACHIEVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH (f'c') AS FOLLOWS:

FOOTINGS BELOW FROST LINE:	f'c = 3,000 PSI
EXTERIOR FOUNDATION WALLS AND GRADE BEAMS THAT ARE EXPOSED TO FREEZING:	f'c = 4,000 PSI
INTERIOR AND EXTERIOR SLAB ON GROUND:	f'c = 4,000 PSI
SLAB ON GROUND WITH FORK TRUCK TRAFFIC	f'c = 4,500 PSI
ALL OTHER CONCRETE	f'c = 3,000 PSI

3. ALL CONCRETE SUBJECT TO EXTERIOR EXPOSURE SHALL BE AIR ENTRAINED TO 6% (+/- 1.5%) AND HAVE A MAXIMUM 1" AGGREGATE. ALL CONCRETE WITHOUT SUPERPLASTICIZERS SHALL HAVE A MAXIMUM SLUMP OF 4".

4. ALL SLABS ON GROUND SHALL BE A MINIMUM 6-BAG MIX.

5. UNLESS THE MIX DESIGN INCLUDES THE USE OF SUPERPLASTICIZERS, CONCRETE WITH A SLUMP GREATER THAN 5" SHALL BE REFUSED.

6. ALL CONCRETE REINFORCING STEEL TO BE ASTM A615 GRADE 60. ALL WELDED WIRE FABRIC (WWF) TO BE ASTM A-185. ALL REINFORCING SHALL BE DETAILED AND PLACED IN ACCORDANCE WITH ACI 315 AND 315R.

7. ALL REINFORCING BARS AND WWF SHALL BE SET ON CHAIRS AND TIED IN PLACE.

8. CONCRETE SLABS ON GROUND CONTAINING WELDED WIRE REINFORCEMENT FABRIC (WWF) SHAL HAVE THE WWF LOCATED IN THE MIDDLE TO THE UPPER ONE-THIRD OF THE SLAB. WELDED WIRE REINFORCEMENT FABRIC SHALL BE SUPPORTED WITH APPROVED MATERIALS OR SUPPORTS AT SPACINGS NOT TO EXCEED 3 FEET (914 MM) OR IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS. WELDED PLAIN WIRE REINFORCEMENT FABRIC FOR CONCRETE SHALL CONFORM TO ASTM A 185.

9. AFTER CONCRETING HAS STARTED, IT SHALL BE CARRIED ON AS A CONTINUOUS OPERATION UNTIL PLACING OF A PANEL OR SECTION, AS DEFINED BY ITS BOUNDARIES OR PREDETERMINED JOINTS, IS COMPLETED. CONCRETE SHALL BE DEPOSITED AS NEARLY AS PRACTICABLE TO ITS FINAL POSITION TO AVOID SEGREGATION DUE TO REHANDLING OR FLOWING.

10. CONCRETING OPERATIONS SHALL BE CARRIED ON AT SUCH A RATE THAT THE CONCRETE IS AT ALL TIMES PLASTIC AND FLOWS READILY INTO SPACES BETWEEN REINFORCEMENT.

11. CONCRETE SHALL BE THOROUGHLY CONSOLIDATED BY SUITABLE MEANS DURING PLACEMENT AND SHALL BE THOROUGHLY WORKED AROUND REINFORCEMENT AND EMBEDDED FIXTURES AND INTO CORNERS OF THE FORMS. THE TOP SURFACES OF VERTICALLY FORMED LIFTS SHALL BE GENERALLY LEVEL.

12. CONCRETE SHALL BE CURED ABOVE 50°F (10°C) AND IN A MOIST CONDITION FOR AT LEAST THE FIRST SEVEN DAYS AFTER PLACEMENT.

13. ALL FLAT WORK CONCRETE SHALL BE COVERED IMMEDIATELY FOLLOWING SAW CUTTING AND MAINTAINED CONTINUOUSLY WET FOR A MINIMUM OF 7-DAYS AFTER PLACING. CURING SHEETS ARE TO BE USED AND REMAIN IN PLACE. CURING COMPOUNDS MAY BE USED APPLIED MUST BE APPLIED PER THE MANUFACTURES RECOMMENDATIONS. SUBMIT PRODUCT DATA TO A/E FOR APPROVAL.

14. RETEMPERED CONCRETE, CONCRETE THAT HAS BEEN REMIXED AFTER INITIAL SET OR PARTIALLY HARDENED SHALL NOT BE USED IN THE STRUCTURE.

15. SLAB REINFORCING, BARS OR WWF, SHALL BE PLACED WITHIN 1-1/2" OF THE TOP OF THE SLAB UNLESS NOTED OTHERWISE. PLACING REINFORCING ON CHAIRS OR BOLSTERS AT 3' TO 4' ON CENTER IS REQUIRED. LIFTING REINFORCING AFTER CONCRETE IS PLACED IS NOT CONSIDERED TO BE AN EFFECTIVE MEANS OF PLACEMENT AND SHALL NOT BE ALLOWED WITHOUT PRIOR WRITTEN CONSENT OF THE ENGINEER.

16. ALL LAPS SHALL BE "B" SPLICES UNLESS NOTED OTHERWISE ON THE DRAWINGS OR UNLESS SPECIAL CARE IS TAKEN FOR THE REINFORCING TO BE DETAILED AND PLACED TO PROVIDE STAGGERED LAPS.

17. ALL CONCRETE SHALL BE CURED FOR A MINIMUM OF SEVEN DAYS.

18. UNLESS OTHERWISE APPROVED, ALL EXPOSED CONCRETE WALLS SHALL BE CURED WITH FORMS LEFT IN PLACE FOR SEVEN DAYS. IF FORMS CAN NOT BE LEFT IN PLACE THE CONTRACTOR SHALL SUBMIT IN WRITING TO THE ENGINEER ALL PROPOSED CURING METHODS.

19. WALL CRACKS DUE TO IMPROPER CURING METHODS, OR WEATHER PROTECTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

20. MINIMUM EMBEDMENT UNLESS NOTED OTHERWISE. THREADED RODS SHALL HAVE A NUT AND WASHER SECURED TO THE EMBEDDED END EITHER BY WELD OR DOUBLE NUT.

21. GROUT USED TO PROVIDE LEVEL BEARING OF COLUMN BASE PLATES SHALL BE NON-SHRINK, NON-METALLIC GROUT WITH A COMPRESSIVE STRENGTH 500 PSI OR MORE GREATER THAN THE COMPRESSIVE STRENGTH OF THE SUPPORTING CONCRETE MEMBER.

22. UNLESS NOTED OTHERWISE ON THE DRAWINGS ALL REINFORCING SHALL BE LAPPED TO DEVELOP ITS CAPACITY AS FOLLOWS:

BAR SIZE	STANDARD	TOP BAR	"B" SPLICE	HOOK
#3	13"	16"	16"	6"
#4	17"	22"	22"	8"
#5	21"	27"	27"	10"
#6	25"	32"	32"	12"
#7	33"	43"	43"	14"

23. MULTIPLY B-SPLICE LENGTHS BY 1.3 FOR TOP BAR CONDITIONS. TOP BARS ARE HORIZONTAL BARS WITH 12 INCHES OR MORE OF CONCRETE BELOW.

24. SLAB-ON-GRADE SHALL HAVE CLASS "A" TOLERANCE.

25. A 6-MIL. (MIN.) POLYETHYLENE VAPOR BARRIER WITH JOINTS LAPPED NOT LESS THAN 6" SHALL BE PLACED BETWEEN THE BASE COURSE OR SUBGRADE AND THE CONCRETE FLOOR.

26. CALCIUM CHLORIDE AND OR ADMIXTURES CONTAINING CALCIUM CHLORIDE SHALL NOT BE USED.

27. PLACING OF CONCRETE SHALL BE DONE IN CONFORMANCE WITH ACI-306 FOR COLD WEATHER AND ACI-305 FOR HOT WEATHER.

28. EXPOSED FOUNDATION WALLS SHALL HAVE VERTICAL CONTROL JOINTS SPACED NOT MORE THAN 25'-0" ON CENTER. EACH JOINT SHALL BE 3/4" WIDE BY 1/4 WALL DEPTH DEEP AND V-CHAMFERED ON BOTH SIDES. HORIZONTAL WALL REINFORCING SHALL BE DISCONTINUOUS AT THE CONTROL JOINT LOCATION. THE LOCATION OF WALL CONTROL JOINTS SHALL BE MID BAY BETWEEN COLUMNS.

29. EXPOSED FOUNDATIONS WALLS SHALL HAVE EXPANSION JOINTS LOCATED AT EVERY FOURTH CONTROL/CONTRACTION JOINT. SEE CONCRETE DETAILS FOR SPECIFIC CONSTRUCTION REQUIREMENTS.

30. CONSTRUCTION JOINTS SHALL BE LOCATED AT CONTROL JOINTS OR CONTRACTION JOINTS.

31. FLOOR SLAB CONTROL JOINTS SHALL FOLLOW THE INTENT SHOWN ON THE PLAN BUT SHALL NOT EXCEED AN ASPECT RATIO OF 1.5 TO 1.0. ALL REENTRANT CORNERS SHALL HAVE CONTROL JOINTS EXTENDING OUT FROM THE INSIDE CORNER. DEAD-END "T" CONTROL JOINTS INTO CONTINUOUS JOINTS SHALL BE AVOIDED.

32. PIPE SLEEVES OVER 1-½"ø WHICH PASS THROUGH CONCRETE WALLS OR SLABS SHALL BE SCHEDULE 40 GALVANIZED STEEL PIPE. ALL OTHER SLEEVES SHALL BE 18 GAUGE SHEET METAL. SLEEVES SHALL BE ONE SIZE LARGER THAN OUTSIDE DIAMETER OF PIPE PASSING THROUGH SLEEVE. VERIFY SIZE AND NUMBER WITH MECHANICAL, ELECTRICAL, AND PLUMBING CONTRACTORS.

33. ALUMINUM CONDUIT SHALL NOT BE EMBEDDED IN CONCRETE.

STEEL CONSTRUCTION:

1. STRUCTURAL STEEL DESIGN AND FABRICATION SHALL BE IN ACCORDANCE WITH THE AISC ASD 13TH EDITION STEEL MANUAL.

2. W-SHAPES SHALL CONFORM TO ASTM A992 (Fy = 50 ksi).

3. PLATE STEEL SHALL CONFORM TO ASTM A36 (Fy = 36 KSI).

4. ALL SQUARE AND RECTANGULAR HSS SHALL CONFORM TO ASTM A500, GRADE B (Fy = 46 KSI).

5. ALL ROUND HSS WITH A WALL THICKNESS LESS THAN OR EQUAL TO 5/8" SHALL CONFORM TO ASTM A500, GRADE B (Fy = 46 KSI).

6. ALL SQUARE AND ROUND BARS SHALL CONFORM TO ASTM A36 (Fy = 36 KSI).

7. THE STRUCTURAL STEEL FABRICATOR SHALL BE RESPONSIBLE FOR THE SELECTION, DESIGN AND DETAILING OF ALL CONNECTIONS NOT FULLY DETAILED ON THE CONTRACT DRAWINGS.

8. CONNECTION DETAILS ARE INDICATED ON THE DRAWINGS FOR DESIGN INTENT ONLY. WHEN BOLTS ARE SHOWN ON SPECIFIC DETAILS, UNLESS THE NUMBER OF BOLTS IS SHOWN NUMERICALLY, USE GRAPHICAL REPRESENTATION FOR DESIGN CONCEPT ONLY.

9. WHERE MOMENT CONNECTIONS ARE INDICATED, PROVIDE CONNECTION TO DEVELOP FULL MOMENT CAPACITY OF WEAKER SECTION TO BE CONNECTED, UNLESS A SPECIFIC VALUE IS SHOWN.

10. ALL SHEAR CONNECTIONS NOT SPECIFICALLY DETAILED ON THE DRAWING SHALL BE SELECTED AND DETAILED BY THE FABRICATOR. ALL CONNECTIONS SHALL BE SELECTED FROM AISC ASD LOAD TABLES TO SUPPORT MAXIMUM LOADS SHOWN ON DRAWINGS OR FOR THE FULL UNIFORM LOAD CAPACITY OF THE MEMBER PER AISC. DOUBLE ANGLE CONNECTIONS ARE PREFERRED WHEN POSSIBLE.

11. ALL GALVANIZED MEMBERS SHALL BE GALVANIZED BY THE "DRY GALVANIZING PROCESS" AS DEFINED BY AGA (FLUX AND GALVANIZING APPLIED IN SEPARATE STEPS). PROVIDE ALTERNATE COST TO GALVANIZE PER THE "WET" METHOD (FLUX AND GALVANIZING IN ONE STEP). GALVANIZED MEMBERS SHALL NOT BE QUENCH COOLED.

12. ALL HOLLOW ENCLOSED STEEL MEMBERS SHALL HAVE WEEP HOLES AS REQUIRED. HOLES SHALL BE LOCATED IN THE CENTER OF THE LONGER WALLS OF RECTANGULAR TUBES AND PLACED TO FACE THE INSIDE OR AWAY FROM PUBLIC VIEW WHEN POSSIBLE. INDICATE WEEP HOLE LOCATIONS ON SHOP DRAWINGS.

13. ALL CONNECTION BOLTING IS TO BE WITH ¾"ø A-325N BOLTS UNLESS NOTED OTHERWISE. BOLTS NEED ONLY BE TIGHTENED TO THE SNUG-TIGHT CONDITION. SNUG-TIGHT IS DEFINED AS THE TIGHTNESS OBTAINED BY A FEW IMPACTS OF AN IMPACT WRENCH OR THE FULL EFFORT OF A PERSON USING AN ORDINARY SPUD WRENCH.

14. ALL CONNECTIONS BOLTING DENOTED AS SLIP CRITICAL "SC" SHALL BE FULLY TIGHTENED BOLTS WITH HARDENED WASHERS. SECTIONS CONNECTED WITH SLIP CRITICAL CONNECTIONS SHALL NOT BE PRIMED OR PAINTED PRIOR TO INSTALLATION. LOAD INDICATOR BOLTS ARE REQUIRED FOR ALL SC CONNECTIONS.

15. STUD ANCHORS ARE TO BE NELSON STUDS OR EQUIVALENT.

16. ALL WELDING OF NEW STEEL TO BE WITH E70XX ELECTRODES.

17. ALL WELDING SHALL COMPLY WITH THE AWS STRUCTURAL WELDING CODES. ALL WELDING TO BE PERFORMED BY AWS PRE-QUALIFIED WELDERS CERTIFIED FOR THE GIVEN APPLICATION.

18. ALL WELDING OF GALVANIZED MATERIAL SHALL BE PERFORMED IN SUCH A MANOR AS TO SATISFY ALL OSHA AND AWS REQUIREMENTS. ALL FIELD WELDED LOCATIONS SHALL BE PREPARED AND PRIMED WITH A ZINC RICH PRIMER PRIOR TO PAINTING PER THE MANUFACTURER'S RECOMMENDATIONS. THE SPECIFIC PRIMER TO BE USED SHALL BE TNEMEC SERIES 90-97 Tneme-Zinc @ 3.0-4.0 mils DFT OR APPROVED EQUAL.

19. ALL EXTERIOR EXPOSED STEEL SHALL BE PRIMED WITH A ZINC RICH PRIMER AND PAINTED WITH AN APPROPRIATE EXTERIOR PAINT. ALL PAINTING AND STEEL PREP SHALL BE IN CONFORMANCE WITH THE MANUFACTURES SPECIFICATIONS.

20. SUBMIT PRODUCT DATA FOR EACH TYPE OF PRODUCT SPECIFIED. SUBMIT MIL TEST REPORTS SIGNED BY MANUFACTURES CERTIFYING THAT THEIR PRODUCTS COMPLY WITH REQUIREMENTS.

21. SUBMIT SHOP DRAWINGS DETAILING FABRICATION OF STRUCTURAL STEEL COMPONENTS.

COLD-FORMED STEEL:

1. STUDS LISTED ARE MINIMUM SIZES AND ARE TO BE USED ONLY AS AN AID IN BIDDING. EXACT SIZES AND SPACINGS OF ALL COLD-FORMED METAL FRAMING SHALL BE DETERMINED BY THE COLD-FORMED FRAMING DESIGNER. SHOP DRAWINGS AND SUPPORTING CALCULATIONS SHALL BE SEALED AND SIGNED BY A PROFESSIONAL ENGINEER IN THE STATE OF WISCONSIN. SEE COLD-FORMED METAL FRAMING NOTES FOR ADDITIONAL INFORMATION

2. THE COLD-FORMED METAL FRAMING SHALL BE COMPLETELY DESIGNED AND SUPPLIED BY THE CONTRACTOR FOR ALL GRAVITY, LATERAL, AND OTHER LOADS INDUCED BY THE BUILDING MATERIALS SHOWN ON THE PROJECT DRAWINGS, AND THE DESIGN LOADS APPLIED IN ACCORDANCE WITH THE BUILDING CODE LISTED IN THE DESIGN DATA.

3. MEMBER SECTION PROPERTIES AND ALLOWABLE STRESSES SHALL BE CALCULATED IN ACCORDANCE WITH THE PROVISIONS OF THE LATEST EDITION OF THE A.I.S.I. "SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS."

4. SHOP DRAWINGS AND SUPPORTING CALCULATIONS FOR THE COLD-FORMED METAL FRAMING SYSTEM, INCLUDING ALL STUDS, JOISTS, HEADERS, JAMBS, SILLS, AND ASSOCIATED CONNECTION DETAILS, SHALL BE SEALED & SIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF WISCONSIN.

5. HEADERS AND JAMBS AT OPENINGS MAY CONSIST OF BUILT-UP COLD-FORMED METAL SECTIONS OR HOT ROLLED STEEL SECTIONS (TUBES, ANGLES, ETC.) SOME CONDITIONS MAY NECESSITATE HOT-ROLLED STEEL SECTIONS, AND ARE TO BE SUPPLIED AND INSTALLED BY THE COLD-FORMED METAL CONTRACTOR.

6. MECHANICAL BRIDGING SHALL BE INSTALLED PRIOR TO THE ATTACHMENT OF FACING MATERIALS AND SHALL BE SECURED IN A MANNER TO PREVENT STUD ROTATION AND BE SPACED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS. MAXIMUM SPACING SHALL BE 6'-0" ON CENTER FOR LATERALLY LOADED WALLS AND 4'-0" ON CENTER FOR AXIALLY LOADED WALLS.

7. PROVIDE WEB STIFFENERS AT HORIZONTAL AND VERTICAL REACTION POINTS.

8. PROVIDE ALL HORIZONTAL AND VERTICAL ATTACHMENT MECHANISMS WHERE REQUIRED.

9. PROVIDE JACK STUDS OR CRIPPLES BELOW WINDOW SILLS, AND ABOVE WINDOW AND DOOR HEADS. THESE SHALL BE SECURELY ATTACHED TO SUPPORTING MEMBERS.

10. ALL WELDING SHALL BE PERFORMED BY AWS D1.3 CERTIFIED WELDERS IN ACCORDANCE WITH THE PROVISIONS OF THE LATEST EDITION OF AWS D1.3, "SPECIFICATIONS FOR WELDING SHEET STEEL IN STRUCTURES."

11. TEMPORARY BRACING SHALL BE PROVIDED AND REMAIN IN PLACE UNTIL THE STRUCTURE IS COMPLETELY STABILIZED. PRIOR TO ATTACHMENT OF WALL SHEATHING, PROVIDE TEMPORARY BRACING TO RESIST BUCKLING OF LOAD-BEARING STUDS, TEMPORARY X-BRACING TO RESIST LATERAL WIND AND SEISMIC LOADS AND ANY OTHER TEMPORARY BRACING DEEMED NECESSARY DURING CONSTRUCTION. TEMPORARY BRACING IS THE RESPONSIBILITY OF THE COLD-FORMED METAL INSTALLER.

12. ALL FIELD CUTTING OF STUDS MUST BE DONE BY SAWING OR SHEARING. TORCH CUTTING OF COLD-FORMED MEMBERS IS UNACCEPTABLE.

13. STUDS SHALL NOT DEVIATE FROM PLUMB, LEVEL AND TRUE TO LINE OF 1/8" IN 10'-0" OR IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

14. MAXIMUM DEFLECTIONS FOR STUDS BACKING UP EXTERIOR BUILDING SKIN MATERIALS SHALL BE LIMITED TO THE FOLLOWING:

BRICK / STONE	L/600
EIFS / STUCCO	L/360
METAL PANELS / WOOD SIDING	L/240

15. ALL COLD-FORMED METAL FRAMING SHALL CONFORM TO:

PAINTED SECTIONS: 10, 12, 14 & 16 GA – A570	Fy=50,000 PSI
PAINTED SECTIONS: 18 & 20 GA – A611 GD C	Fy=33,000 PSI
GALVANIZED SECTIONS: 10, 12, 14 & 16 GA – A446 GD D	Fy=50,000 PSI
GALVANIZED SECTIONS: 18 & 20 GA – A446 GD A	Fy=33,000 PSI

16. REFER TO PLANS AND DETAILS FOR GAUGE AND SIZE REQUIREMENTS OF COLD-FORMED METAL FRAMING MEMBERS.

17. ALL FRAMING PRODUCTS SHALL BE FORMED FROM STEEL POSSESSING A COATING CORRESPONDING TO THE MINIMUM REQUIREMENTS OF ASTM C955.

18. ALL SIDE CLIPS, SUPPORT CLIPS, AND CLIP ANGLES ARE 50 ksi, UNLESS NOTED OTHERWISE.

19. NOMENCLATURE: CONFORMS TO SSMA STANDARDS, PRODUCT TECHNICAL INFORMATION, PAGE 5 (www.SSMA.com), FOR "GENERIC" FRAMING MANUFACTURER.

20. GALVANIZING: ALL FRAMING TO BE GALVANIZED, G60 COATING MINIMUM, UNLESS NOTED OTHERWISE.

21. SUGGESTED WELD METAL AND PROCESS FOR SHOP WELDING ARE: 60 ksi WELD MATERIAL STRENGTH (MINIMUM). SUGGESTED METHODS FOR FIELD WELDING: 1/8" UNLESS NOTED OTHERWISE, E60XX (MINIMUM) ELECTRODE- SMAW – OR "GASLESS" MIG. MINIMUM WELD THROAT THICKNESS (t) MUST MATCH OR EXCEED THE BASE STEEL THICKNESS OF THE THINNEST CONNECTED PART UNLESS NOTED OTHERWISE.

22. ZINC RICH PAINT: FOR WELD TOUCH-UP USE PAINT 20 TYPE II ORGANIC ZINC RICH.

23. FASTENERS: SHALL BE CORROSION-RESISTANT CADMIUM OR ZINC PLATED SCREWS, NUTS, BOLTS, WASHERS AND OTHER FASTENERS.

24. UNLESS NOTED OTHERWISE, REFER TO LITERATURE PUBLISHED BY HILTI FASTENING SYSTEMS, INC. FOR EXPANSION BOLT, OR POWDER ACTUATED FASTENER (P.A.F.) INFORMATION, AND ITW BUILDEX, INC. FOR TEKS SCREW DATA. ALTERNATE MANUFACTURER'S FASTENERS OF COMPARABLE SPECIFICATIONS AND LOAD CAPACITIES ARE ACCEPTABLE WITH APPROVAL. ALL FASTENER'S SUBJECT TO TENSION SHALL HAVE 15MM (MINIMUM) DIAMETER STEEL WASHERS.

25. ALL CONCRETE SCREW FASTENERS SHALL BE THOSE AS MANUFACTURED AND TESTED BY TAPCON CONCRETE ANCHORS OR APPROVED EQUAL, OR AS INDICATED ON THE DRAWINGS.

PRE-ENGINEERED, PRE-FABRICATED COLD-FORMED STEEL ROOF TRUSSES:

1. ALL LIGHT GAGE STEEL SHALL BE PERFORMANCE DESIGNED PER THE SPECIFICATIONS OF THE LATEST EDITION OF THE AMERICAN IRON AND STEEL INSTITUTE (AISI) NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS, INCLUDING SUPPLEMENTS.

2. PROPORTION LOADS PER THE LATEST EDITION OF THE WISCONSIN ENROLLED COMMERCIAL BUILDING CODE BASED ON THE INTERNATIONAL BUILDING CODE.

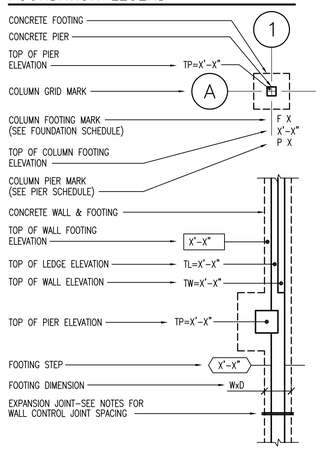
3. PROVIDE METAL STUDS, ROOF TRUSSES, AND JOISTS AS INDICATED ON THE STRUCTURAL AND ARCHITECTURAL DRAWINGS, AS SPECIFIED HEREIN, AND AS NEEDED FOR A COMPLETE AND PROPER INSTALLATION.
3.1. STRUCTURAL PERFORMANCE: DESIGN, FABRICATE, AND ERECT COLD-FORMED STEEL TRUSSES TO WITHSTAND SPECIFIED DESIGN LOADS WITHIN LIMITS AND UNDER CONDITIONS REQUIRED.
DESIGN LOADS: AS SPECIFIED.
DEFLECTIONS: AS SPECIFIED.
3.2. DESIGN FRAMING SYSTEMS TO PROVIDE FOR MOVEMENT OF FRAMING MEMBERS WITHOUT DAMAGE OR OVERSTRESSING, SHEATHING FAILURE, CONNECTION FAILURE, UNDUE STRAIN ON FASTENERS AND ANCHORS, OR OTHER DETRIMENTAL EFFECTS WHEN SUBJECT TO A MAXIMUM AMBIENT TEMPERATURE CHANGE (RANGE) OF 120 DEG F (67 DEG C).
3.3. SUBMIT DETAILED ROOF TRUSS LAYOUTS INDICATING PLACEMENT OF TRUSSES.
3.4. SUBMIT INDIVIDUAL TRUSS DRAWINGS, SEALED AND SIGNED BY A QUALIFIED REGISTERED PROFESSIONAL ENGINEER, VERIFYING ACCORDANCE WITH LOCAL BUILDING CODE AND DESIGN REQUIREMENTS. INCLUDE:
DESCRIPTION OF DESIGN CRITERIA.
ENGINEERING ANALYSIS DEPICTING MEMBER STRESSES AND TRUSS DEFLECTION.
TRUSS MEMBER SIZES AND THICKNESS AND CONNECTIONS AT TRUSS JOINTS.
TRUSS SUPPORT REACTIONS.
TOP CHORD, BOTTOM CHORD AND WEB BRACING REQUIREMENTS.
3.5. SUBMIT FINAL ROOF AND FLOOR PLAN DRAWINGS SEALED AND SIGNED BY A QUALIFIED REGISTERED PROFESSIONAL ENGINEER DEPICTING FINAL INSTALLED TRUSS ASSEMBLY. INCLUDE:
ALL TRUSS TO TRUSS CONNECTIONS
ALL TRUSS TO STRUCTURE (BEARING) CONNECTIONS
PLAN AND DETAILS FOR THE LOCATION OF ALL PERMANENT LATERAL AND DIAGONAL BRACING AND/OR BLOCKING REQUIRED IN THE TOP CHORD, WEB, AND BOTTOM CHORD PLANES.

4. MATERIALS:
4.1. FOR ALL CHORD AND WEB MEMBERS : FABRICATE COMPONENTS OF STRUCTURAL QUALIT

PLAN NOTES

1. SEE SHEET S001 FOR ADDITIONAL NOTES.
2. CONTROL JOINTS: ALL CONCRETE SLABS SHALL BE SAW CUT AS SOON AS THE CONCRETE WILL SUPPORT THE SAWING EQUIPMENT AND DOES NOT RAVEL DURING THE SAWING OPERATION. ALL SAW CUTTING SHALL BE PERFORMED THE SAME DAY THE CONCRETE IS PLACED. SAW CUTS SHALL BE ¼" WIDE WITH DEPTHS OF AT LEAST 25% OF THE SLAB THICKNESS. JOINTING PATTERN SHALL BE IN A SQUARE PATTERN, WITH MAXIMUM SPACINGS OF 10'-0"OC. SEE DETAIL 6/S601.
3. CURING: ALL CONCRETE FLAT WORK SHALL BE COVERED IMMEDIATELY FOLLOWING SAW CUTTING AND MAINTAINED CONTINUOUSLY WET FOR A MINIMUM OF 7 DAYS AFTER PLACING. CURING SHEETS SHALL BE USED, AND ARE TO REMAIN IN PLACE, DURING THIS PERIOD. CURING COMPOUND MAY BE USED AND MUST BE APPLIED PER MANUFACTURER'S RECOMMENDATIONS.
4. SEE SHEET S601 DETAIL 1 FOR ANCHOR BOLT REQUIREMENTS.
5. SEE SHEET S601 DETAILS 2 & 3 FOR FOOTING & WALL CORNER REINFORCING.
6. SEE SHEET S601 DETAILS 4 & 5 FOR ADDED REINFORCING AT ROUND & RECTANGULAR OPENINGS.
7. SEE SHEET S601 DETAILS 6 & 7 FOR SLAB & WALL JOINT REQUIREMENTS.
8. SEE SHEET S601 DETAIL 8 FOR ADDED REINFORCING AT RE-ENTRANT CORNERS WITHOUT CONTROL JOINTS.
9. SEE SHEET S601 DETAIL 9 FOR FOOTING STEP REQUIREMENTS.
10. TOP OF FOOTING ELEVATION = 96'-0" UNO.
11. (1) – PROVIDE SIMPSON S/HDU9 HOLDOWN @ BASE w/ ⅛"ø PAB7 ANCHOR BOLT.

FOUNDATION LEGEND

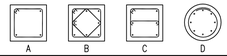


FOOTING SCHEDULE

FOOTING MARK	FOOTING DIMENSION (W x L x D)	FOOTING REINFORCING EACH WAY, BOTTOM
F1	3'-0" x 3'-0" x 1'-0"	(3) #5's EW

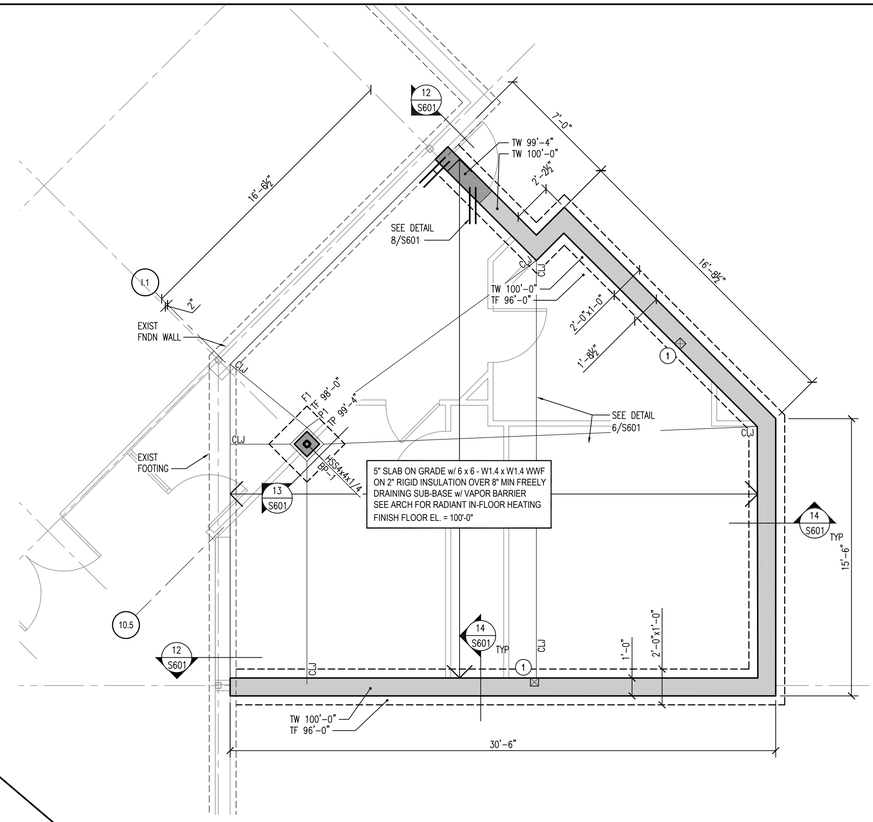
1. CENTER FOOTING UNDER COLUMN AND/OR PIER.

PIER SCHEDULE



PIER MARK	PIER DIMENSION (W x L)	PIER REINFORCING	TYPE	REMARKS
P1	1'-0" x 1'-0"	4-#6 VERT W/ #3 TIES @ 10"OC	A	TP 99'-4" UNO

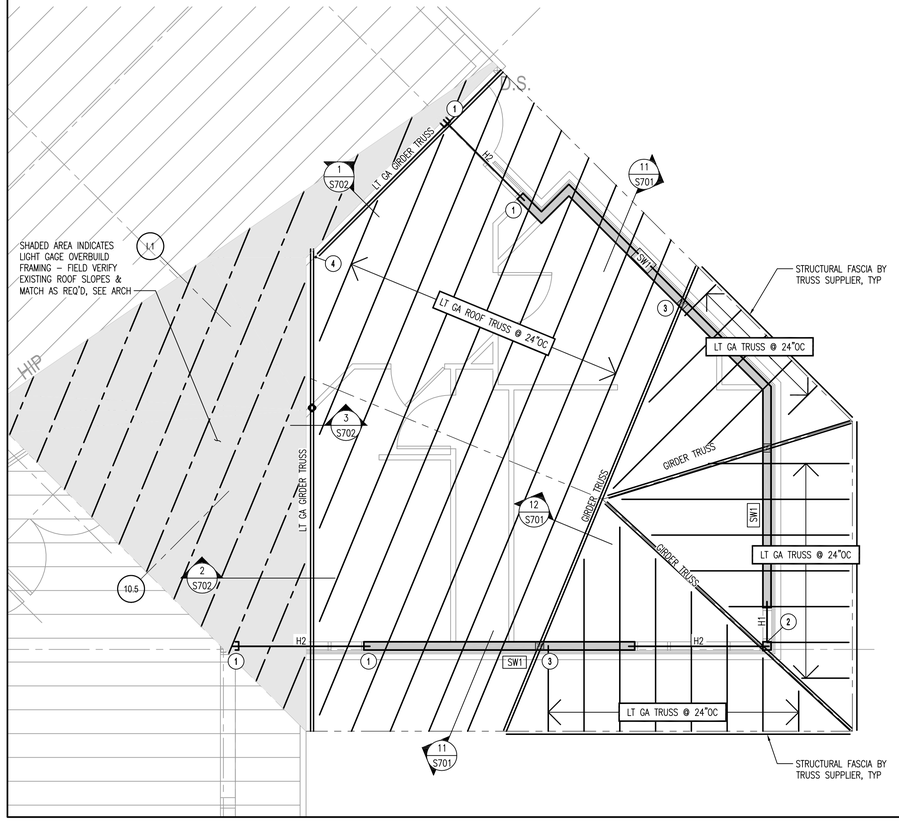
1. CENTER PIER UNDER COLUMN OR UNDER BEAM BEARING UNLESS NOTED OTHERWISE.
2. SEE DETAIL 11/S6.1 FOR TYPICAL PIER / COLUMN BASEPLATE.



N

1 S100 FOUNDATION PLAN

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



PLAN NOTES

1. SEE SHEET S001 FOR ADDITIONAL NOTES.
2. METAL ROOF SHEATHING NOT IN CONTRACT. GENERAL CONTRACTOR TO COORDINATE FASTENING SCHEDULE IN FIELD w/ SEPARATE RE-ROOFING PROJECT CONTRACTOR OF EXISTING BUILDING. MIN. REQUIREMENTS: FASTEN TO LIGHT GA w/ #12 TEKS IN 30/4 PATTERN (3-#10 TEKS @ SIDELAP)
3. LIGHT GAGE METAL ROOF TRUSSES SHALL BE PERFORMANCE DESIGNED PER STRUCTURAL NOTES ON SHEET S001.
4. EXTERIOR WALL SHEATHING SHALL CONSIST OF DENSGLASS, SEE ARCH. FASTEN TO STUDS PER 10/S701.
5. SEE SHEET S701 DETAIL 8 FOR TRUSS BRACING REQUIREMENTS.
6. TRUSS-TO-TRUSS CONNECTIONS SHALL BE DESIGNED AND SUPPLIED BY TRUSS SUPPLIER.
7. SWx DENOTES SHEAR WALL LOCATION, SEE 10/701.
8. EXTERIOR WALLS TO BE SW1 SHEAR WALLS UNO.
9. (1) – PROVIDE SIMPSON MSTA24 STRAP TIES @ EA END OF HEADER
10. (2) – PROVIDE HEADER HANGER TO FACE OF STUD BY SUPPLIER, SEE DETAIL 8/S701
11. (3) – PROVIDE SIMPSON GIRDER TIEDOWN – SIZE BY TRUSS SUPPLIER
12. (4) – GIRDER TO GIRDER CONNECTION BY SUPPLIER
13. SEE SHEET S701 FOR TYPICAL DETAILS NOT CUT ON PLAN.
14. H1 – (2)-600S162-43 (BOXED) w/ 600T125-43 (MIN)
15. H2 – (2)-600S162-54 (BACK TO BACK) w/ 600T125-54 (MIN)

ROOF TRUSS LOADING

DEAD LOAD: TOP CHORD DL = 10 PSF
BOTTOM CHORD DL = 5 PSF

LIVE LOAD: 20 PSF REDUCIBLE

SNOW LOAD: BALANCED SNOW = 23.1 PSF
UNBALANCED SNOW = 30/0 ACROSS RIDGE

WIND LOAD: 4.3 PSF GROSS UPLIFT FIELD
4.9 PSF GROSS UPLIFT CORNERS
13.3 PSF GROSS UPLIFT OVERHANGS

DEFLECTION: L/240 LIVE/SNOW
L/180 TOTAL

N

2 S100 ROOF FRAMING PLAN

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

COLD-FORMED METAL PRODUCT IDENTIFICATION

PRODUCT GEOMETRIES MUST MEET OR EXCEED THE MINIMUM PROPOSED BY THE STEEL STUD MANUFACTURERS ASSOCIATION FOR INDUSTRY STANDARDIZATION. FOR SSMA DESIGNATIONS SEE TABLES BELOW.

MEMBER SECTION TABLE

SECTION	SSMA IDENTIFICATION	FLANGE WIDTH
STUDS	S137	1 3/8"
	S162	1 5/8"
	S200	2"
	S250	2 ½"
TRACKS	T125	1 ¼"
	T200	2"

MEMBER THICKNESS TABLE

MILS	GAUGE	MINIMUM DELIVERED THICKNESS	DESIGN THICKNESS
33	20	0.0329"	0.0346"
43	18	0.0428"	0.0451"
54	16	0.0538"	0.0566"
68	14	0.0677"	0.0713"
97	12	0.0966"	0.1017"
118	10	0.1180"	0.1242"

MEMBER DEPTH (WEB SIZE) TABLE

SSMA IDENTIFICATION	MEMBER DEPTH
600	6"
362	3 5/8"
800	8"
1000	10"

SSMA PRODUCT IDENTIFICATION

800S162-43 (50ksi)

- 800 – MEMBER DEPTH
- S – SHAPE
- 162 – FLANGE WIDTH
- 43 – MIL THICKNESS
- (50ksi) – YIELD STRENGTH (IF GREATER THAN 33ksi)

COLD FORMED METAL STUD FRAMING SCHEDULE

WALL TYPE	STUD SIZE	TRACK
EXTERIOR WALLS	600S162-43 @ 16"oc	600T125-43
INTERIOR NON-LOAD BEARING WALLS	362S162-33 @ 24"oc MAX (SEE ARCH)	362T162-33

BEARING WALL SCHEDULE NOTES:

1. STUD SIZES, GAGES, AND SPACINGS SHOWN ARE MINIMUM VALUES. CONDITIONS AT HEADERS, JAMBS, ETC. WILL REQUIRE ADDITIONAL FRAMING AND IS TO BE ACCOUNTED FOR DURING BIDDING. COLD-FORMED METAL STEEL SUPPLIER TO VERIFY STUD SIZE, GAUGE & SPACING.
2. FOR CONDITIONS WHERE STUD SPACING DOES NOT MATCH ROOF TRUSS FRAMING SPACING, STRUCTURAL COLD-FORMED TOP TRACKS OR HOT-ROLLED STEEL SECTIONS SHALL BE USED TO TRANSFER OFFSET POINT LOADS, AND ARE TO BE DESIGNED, SUPPLIED, AND INSTALLED BY THE COLD-FORMED CONTRACTOR.
3. PROVIDE HORIZONTAL STRAP BLOCKING AT ALL SHEATHING EDGES. PROVIDE SOLID BLOCKING BETWEEN THE FIRST TWO END STUDS AND AT 10'-0" O.C. SEE DETAIL 10/S701 – SHEARWALL NOTES FOR ADDITIONAL REQUIREMENTS.

DESTREE architecture & design
222 West Washington Ave, Suite 310, Madison, WI 53703
ph: 608.268.1499 fax: 608.268.1498 www.destreearchitects.com

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(mp)² STRUCTURAL ENGINEERS, LLC
583 D'onofrio Drive, Suite 201
Madison, WI 53719
Office: 608-821-4770
Fax: 608-821-4780

HEIN Engineering Group

OLBRICH GARDENS RESTROOM ADDITION

3330 ATWOOD AVENUE
MADISON, WI

ISSUANCES:

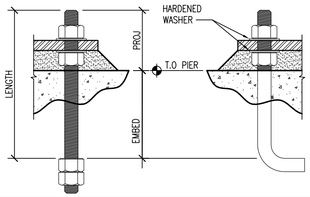
CD'S	12.21.2012
-	-

PROJECT:

NUMBER:	120410.00
DATE:	12.21.2012
REV:	-
	-

SHEET:

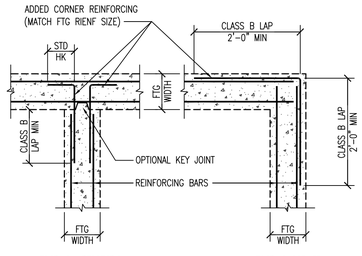
S100



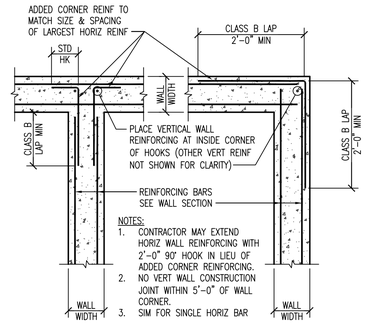
DIMENSION CHART				
DIAMETER	LENGTH	HOOK	PROJECTION	NOTES
1/2	10	2	4	1,2
5/8	13	2 1/2	4	1,2
3/4	16	3	4	1,2
7/8	19	3 1/2	4	1,2
1	19	4	4	1,2

NOTES:
1. ALL ANCHORS F1554, GRADE 36.
2. LENGTH = 1'-0" AT INTERIOR COLUMN FOOTINGS WITH 12" DEPTH.

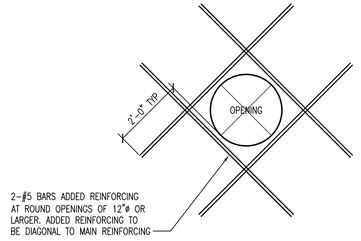
1 S601 ANCHOR BOLT DIMENSION CHART
SCALE: NTS



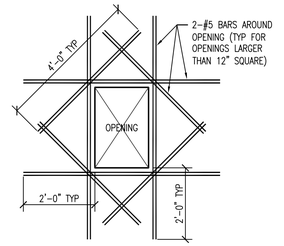
2 S601 FOOTING CORNER REINFORCING
SCALE: 3/4"=1'-0"



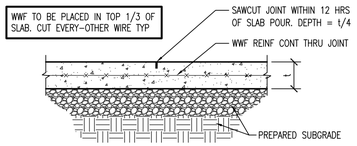
3 S601 WALL CORNER REINFORCING
SCALE: 3/4"=1'-0"



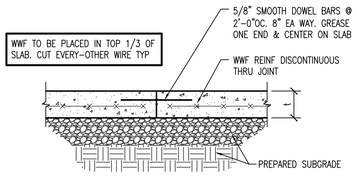
4 S601 ADDED REINFORCING AT ROUND OPENINGS
SCALE: 1/2"=1'-0"



5 S601 ADDED REINFORCING AT RECTANGULAR OPENINGS
SCALE: 1/2"=1'-0"



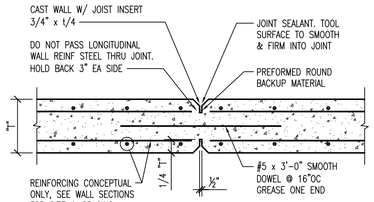
CONTROL JOINT



CONSTRUCTION JOINT

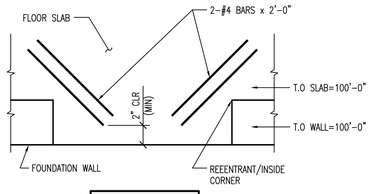
CONTRACTOR OPTION: SUBSTITUTE FIBERMESH 350 IN PLACE OF WWF

6 S601 SLAB JOINTS
SCALE: 3/4"=1'-0"



SEE PLAN & CONCRETE CONSTRUCTION NOTES FOR LOCATION REQUIREMENTS.

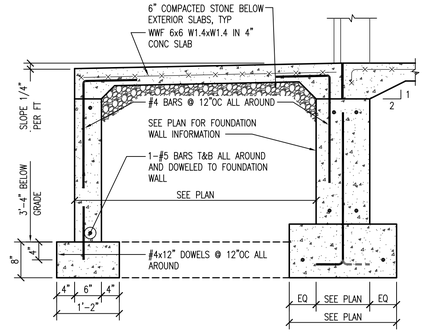
7 S601 WALL CONTROL JOINT
SCALE: 3/4"=1'-0"



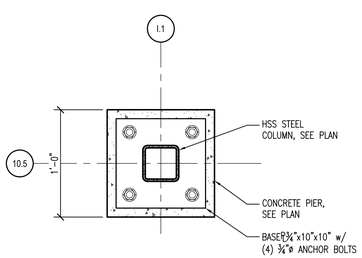
TYPICAL FOR EXTERIOR DOOR LOCATIONS.

8 S601 SLAB REINF AT REENTRANT CORNERS W/O CONTROL JTS
SCALE: 3/4"=1'-0"

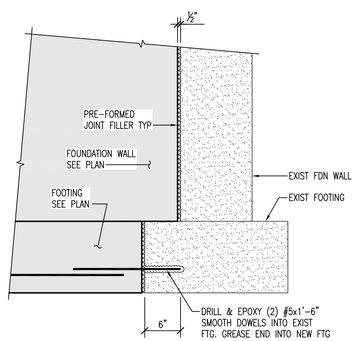
9 S601 NOT USED
SCALE: 3/4"=1'-0"



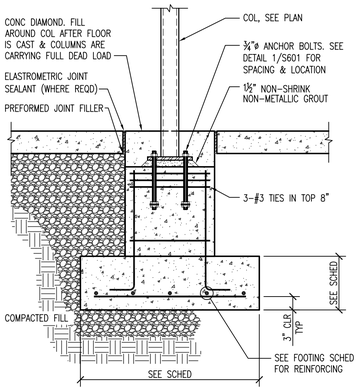
10 S601 STOOP AT DOOR/WINDOW
SCALE: 3/4"=1'-0"



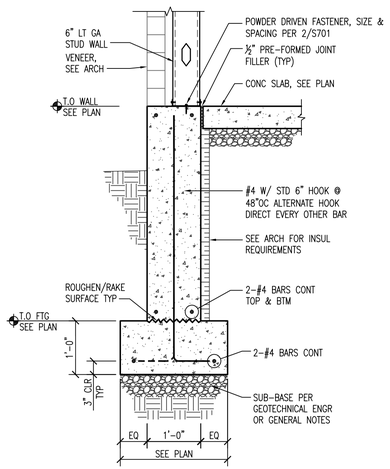
11 S601 BP-1 BASEPLATE & PIER
SCALE: 1 1/2"=1'-0"



12 S601 SECTION AT NEW TO EXISTING FOOTING
SCALE: 1"=1'-0"



13 S601 INTERIOR COLUMN FOOTING
SCALE: 3/4"=1'-0"



14 S601 FOUNDATION WALL SECTION
SCALE: 3/4"=1'-0"

DESTREE architecture & design
222 West Washington Ave, Suite 310, Madison, WI 53703
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(mp)² STRUCTURAL ENGINEERS, LLC
583 D'onofrio Drive, Suite 201
Madison, WI 53719
Office: 608-821-4778
Fax: 608-821-4780

HEIN Engineering Group

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ISSUANCES:	
CD'S	12.21.2012
-	-

PROJECT:	
NUMBER:	120410.00
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REV:	-
	-

SHEET: S601

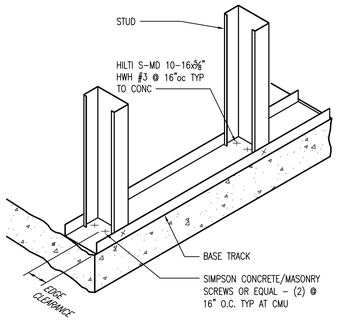
STEEL STUD SCHEDULE

550 S 162-43

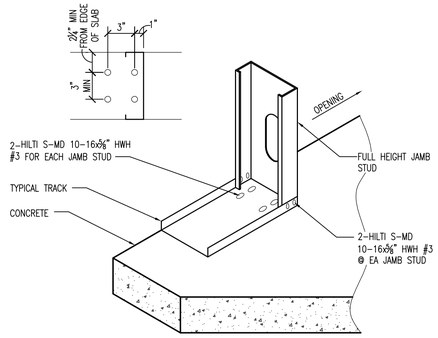
- 550 — MEMBER THICKNESS (1/1000 in)
- 162 — FLANGE WIDTH (in)
- S=STUD, T=TRACK
- 43 — WEB DEPTH (in)

MEMBER THICKNESS (mils)	DESIGN THICKNESS (in)	REFERANCE ONLY GAGE No.
18	0.0188	25
27	0.0283	22
30	0.0312	20 – DRYWALL
33	0.0346	20 – STRUCTURAL
43	0.0451	18
54	0.0566	16
68	0.0713	14
97	0.1017	12

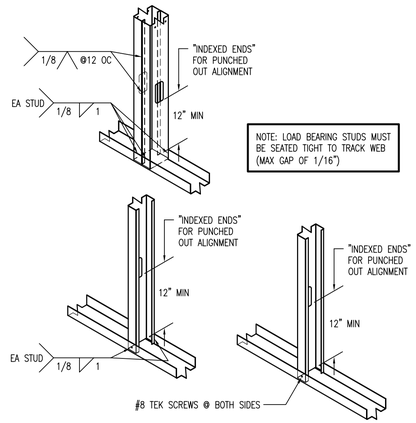
1 S701 STEEL STUD SCHEDULE
SCALE: NTS



2 S701 BOTTOM TRACK ANCHORAGE
SCALE: 1"=1'-0"



3 S701 JAMB ANCHORAGE
SCALE: NTS



3 S701 TYP STUD TO TRACK CONN
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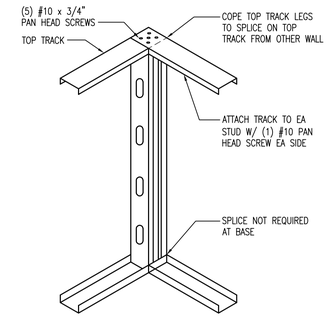
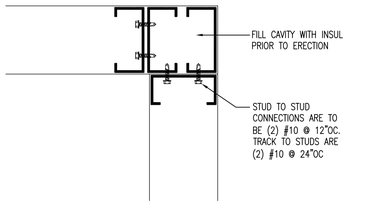
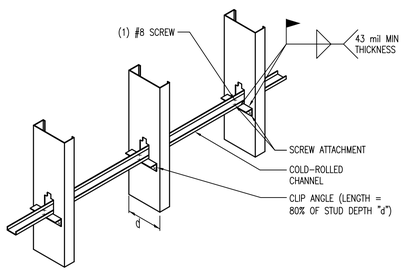


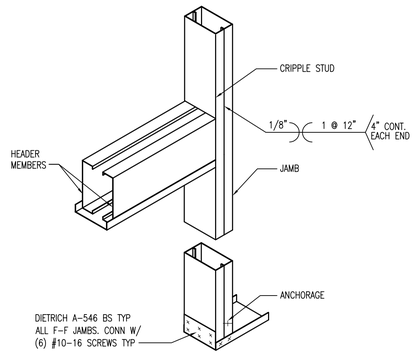
4 S701 WALL CORNER FRAMING
SCALE: NTS



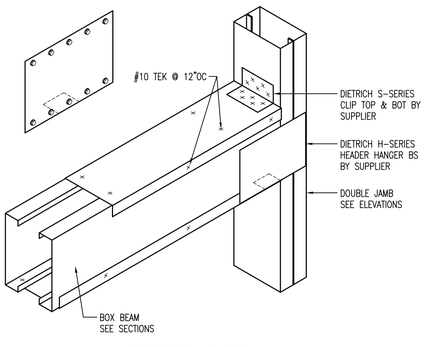
5 S701 TYPICAL CORNER FRAMING
SCALE: NTS



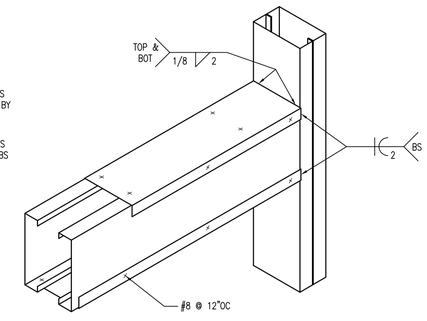
BRIDGING COLD-ROLLED CHANNEL WITH CLIP ANGLE
6 S701 SCALE: 1"=1'-0"



7 S701 FACE TO FACE JAMB
SCALE: 1"=1'-0"

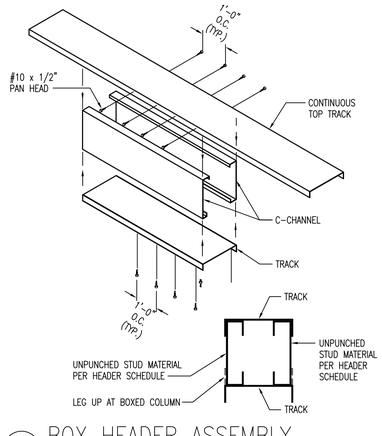


SCREWED HEADER

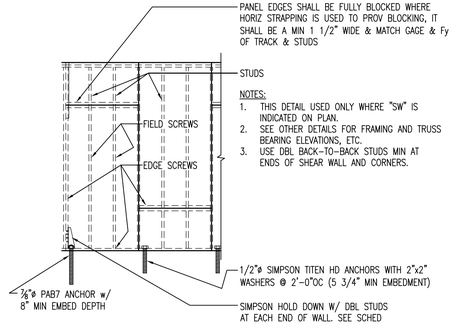


WELDED HEADER

8 S701 BOXED HEADER CONNECTION
SCALE: 1"=1'-0"



9 S701 BOX HEADER ASSEMBLY
SCALE: NTS



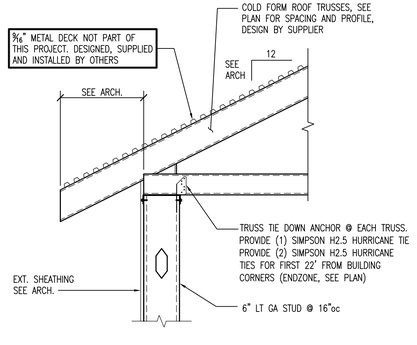
SHEAR WALL SCHEDULE

WALL LOC	SHEATHING	FASTENER SIZE	EDGE SPACING	FIELD SPACING	HOLD DOWN
SW1	½" GYPSUM BOARD, BOTH SIDES OF WALL	#6x1" SELF-TAPPING w/ MIN 0.292"ø HEAD	4"OC	4"OC	SIMPSON S/HDU9

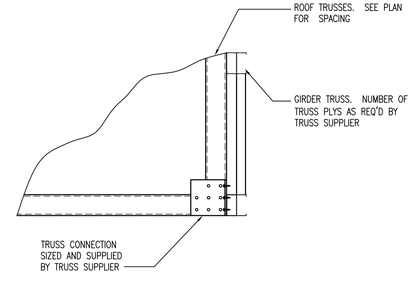
10 S701 SHEAR WALL DETAIL
SCALE: NTS

COLD-FORMED METAL SHEARWALL NOTES

1. ALL WALLS USED AS SHEAR WALLS FOR RESISTING WIND & SEISMIC LATERAL FORCES SHALL CONFORM TO THE FOLLOWING MINIMUM REQUIREMENTS PER THE WECBC 2002, SECTION 2211.
2. FOR SCREWED CONNECTIONS, SCREWS SHALL BE OF SUFFICIENT LENGTH TO PENETRATE THROUGH THE COLD-FORMED STEEL FRAMING MEMBER BY AT LEAST THREE EXPOSED THREADS.
3. STUDS SHALL BE A MINIMUM 1 ⅝"x3 ½" WITH A ⅜" RETURN LIP. AS A MINIMUM, STUDS SHALL BE DOUBLED (BACK TO BACK) AT SHEAR WALL ENDS.
4. TRACK SHALL BE A MINIMUM 1 ¼"x3 ½", SAME GAUGE AS STUD.
5. BOTH STUDS AND TRACK SHALL HAVE A MINIMUM UNCOATED BASE METAL THICKNESS OF 0.033 INCH (0.84mm) AND SHALL BE OF THE FOLLOWING GRADES OF STRUCTURAL QUALITY STEEL: ASTM A653 SS GRADE 33, ASTM A792 SS GRADE 33, OR ASTM A875 SS GRADE 33.
6. FASTENERS ALONG THE EDGES IN SHEAR PANELS SHALL BE PLACED NOT LESS THAN ⅜" IN FROM PANEL EDGES.
7. ALL PANEL EDGES SHALL BE FULLY BLOCKED. WHERE HORIZONTAL STRAPPING IS USED TO PROVIDE SUCH BLOCKING, IT SHALL BE A MINIMUM 1 ½" WIDE AND OF THE SAME MATERIAL & THICKNESS AS THE TRACK & STUDS. PANELS LESS THAN 12" WIDE SHALL NOT BE USED.
8. GYPSUM BOARD PANEL SHEATHING:
   - 8.1. LIGHT FRAMED COLD FORMED STEEL WALL SYSTEMS SHEATHED WITH GYPSUM BOARD ARE PERMITTED TO RESIST HORIZONTAL FORCES PROVIDED BY WIND.
   - 8.2. WALL IS TO BE SHEATHED BOTH SIDES OF WALL.
   - 8.3. GYPSUM BOARD SHALL BE APPLIED PERPENDICULAR TO STUDS IN ACCORDANCE WITH TABLE 2211.1(2). END JOINTS SHALL NOT OCCUR OVER THE SAME STUD.
   - 8.4. SCREWS USED TO ATTACH GYPSUM BOARD SHALL BE A MINIMUM OF NO. 6 IN ACCORDANCE WITH ASTM C 954, AND SHALL BE OF SUFFICIENT LENGTH TO PENETRATE INTO THE COLD FORMED STEEL FRAMING MEMBERS BY AT LEAST 3 EXPOSED THREADS.



11 S701 ROOF TRUSS BEARING DETAIL
SCALE: 1"=1'-0"



TRUSS TO GIRDER TRUSS CONNECTION
12 S701 SCALE: 1"=1'-0"

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583 D'onofrio Drive, Suite 201
Madison, WI 53717
Office: 608-821-4770
Fax: 608-821-4780

HEIN Engineering Group

OLBRICH GARDENS RESTROOM ADDITION
3330 ATWOOD AVENUE
MADISON, WI

ISSUANCES:

CD'S	12.21.2012
-	-

PROJECT:

NUMBER:	120410.00
DATE:	12.21.2012
REV:	-
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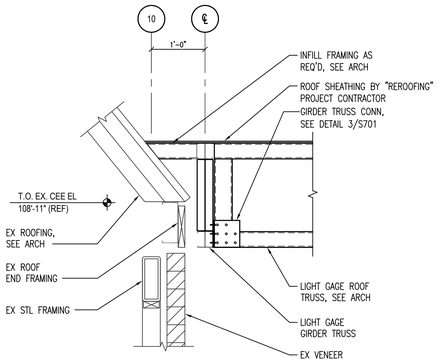
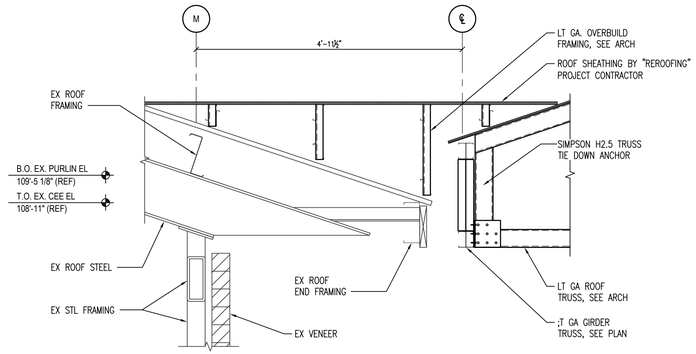
SHEET: S701



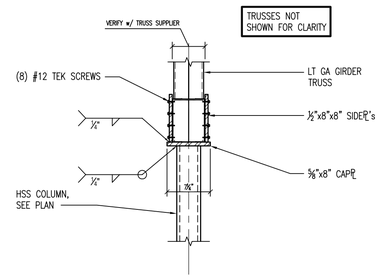
1 S702 SECTION @ EXISTING

SCALE: 3/4"=1'-0"



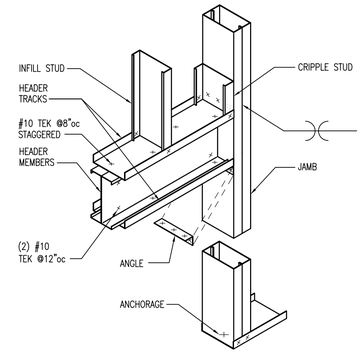
2 S702 SECTION @ EXISTING

SCALE: 3/4"=1'-0"



3 S702 COLUMN / GIRDER CONN

SCALE: 1"=1'-0"



4 S702 BACK TO BACK HEADER

SCALE: 1"=1'-0"

5 S702 WINDOW HEADER CONN

SCALE: 3/4"=1'-0"

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Madison, WI 53719
Office: 608-821-4770
Fax: 608-821-4780

HEIN Engineering Group

OLBRICH GARDENS RESTROOM ADDITION

3330 ATWOOD AVENUE
MADISON, WI

ISSUANCES:

CD'S	12.21.2012
-	-

PROJECT:

NUMBER:	120410.00
DATE:	12.21.2012
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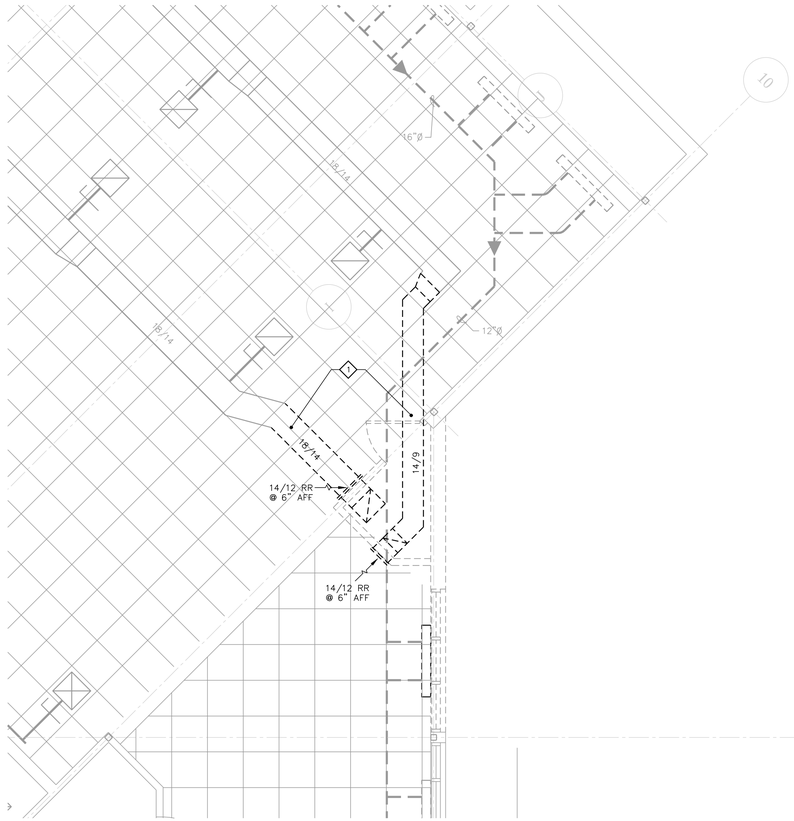
	-

SHEET: S702



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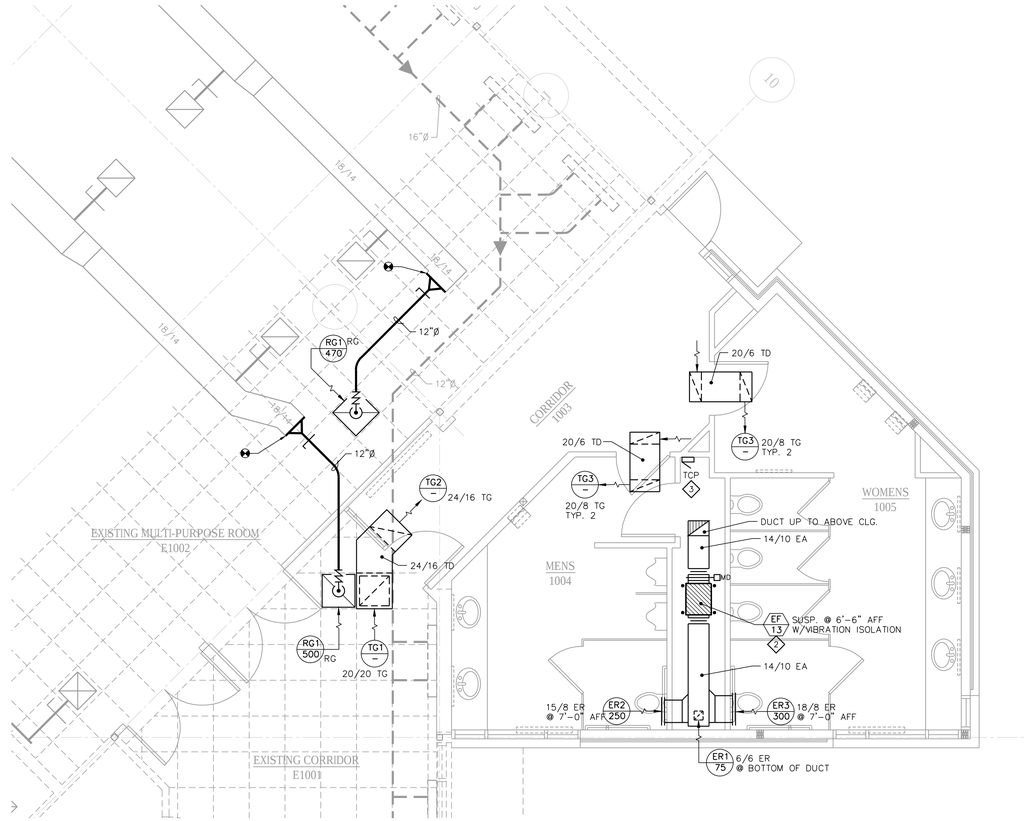
1 HVAC DEMOLITION PLAN - DUCTWORK
1/4" = 1'-0"



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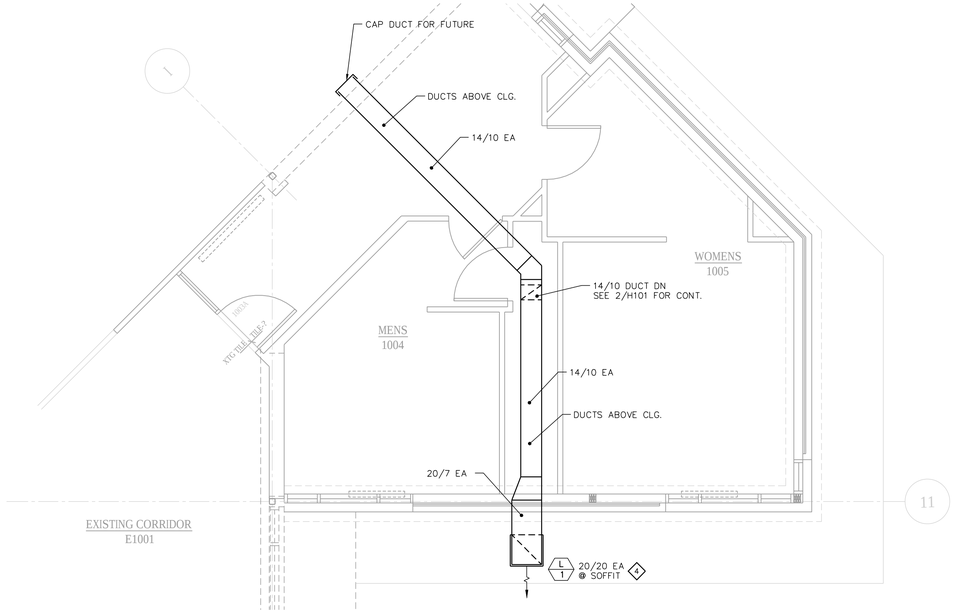
2 HVAC PLAN - DUCTWORK
1/4" = 1'-0"



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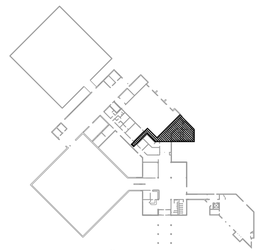
3 HVAC ABOVE CEILING PLAN - DUCTWORK
1/4" = 1'-0"

HVAC GENERAL NOTES:

1. HVAC CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF HVAC WORK WITH OTHER TRADES.
2. COORDINATE PROVISIONS FOR OPENINGS IN NEW CONSTRUCTION WITH THE GENERAL CONTRACTOR FOR APPROVAL PRIOR TO STARTING WORK.
3. HVAC CONTRACTOR IS RESPONSIBLE FOR CUTTING AND PATCHING WALLS, FLOORS & CEILINGS FOR NEW HVAC WORK, IF REQUIRED.
4. COORDINATE FINAL CEILING REGISTER AND GRILLE LOCATIONS WITH OTHER TRADES.
5. CONCEAL ALL CONTROL WIRING IN FINISHED AREAS.
6. COORDINATE DUCTWORK ROUTING WITH OTHER TRADES TO MAINTAIN SCHEDULED CEILING HEIGHTS.
7. PROVIDE PROPER SERVICE CLEARANCES AND ACCESS SPACE FOR ALL NEW EQUIPMENT.
8. PROVIDE ACCESS PANELS AT INACCESSIBLE CEILINGS FOR EQUIPMENT, WHERE REQUIRED.
9. COORDINATE DUCT ROUTING AND WALL PENETRATION LOCATIONS WITH GENERAL CONTRACTOR AND OTHER TRADES.

HVAC PLAN NOTES:

1. DISCONNECT & REMOVE DUCTWORK & RETURN REGISTER BACK TO MAIN DUCT. PROTECT FOR CONTINUATION WITH NEW PLAN.
2. INTERLOCK EF-13 OPERATION WITH OCCUPIED BUILDING SCHEDULE BY TEMPERATURE CONTROL CONTRACTOR.
3. TEMPERATURE CONTROL PANEL.
4. COORDINATE LOUVER OPENING WITH GENERAL CONTRACTOR.



N KEY PLAN

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Madison, WI 53719
Office: 608-821-4775
Fax: 608-821-4780

HEIN Engineering Group
319 W. Beltline Hwy, Suite 111
Madison, WI 53713
Phone: (608) 288-9260
email: hein@chorus.net
Project No. H1222

OLBRICH GARDENS RESTROOM ADDITION
3330 ATWOOD AVENUE
MADISON, WI

ISSUANCES:	
CD'S	12.21.12
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PROJECT:	
NUMBER:	120410.00
DATE:	12.21.12
REV:	----

SHEET: H101

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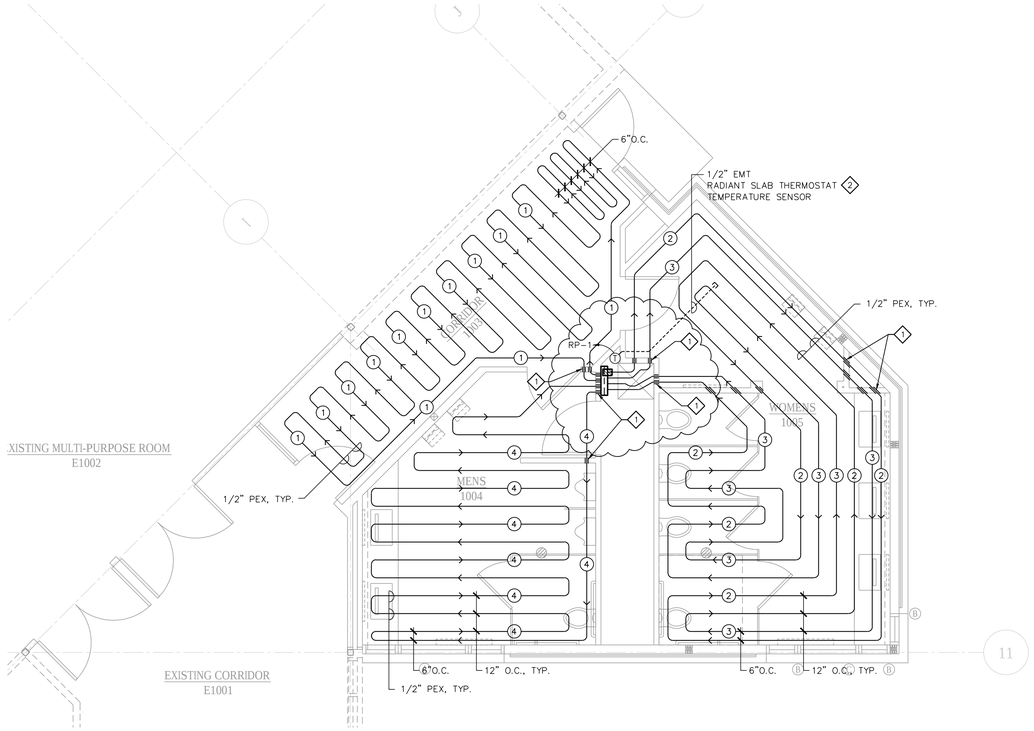


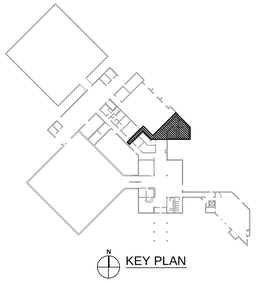
1 RADIANT FLOOR PLAN
1/4" = 1'-0"

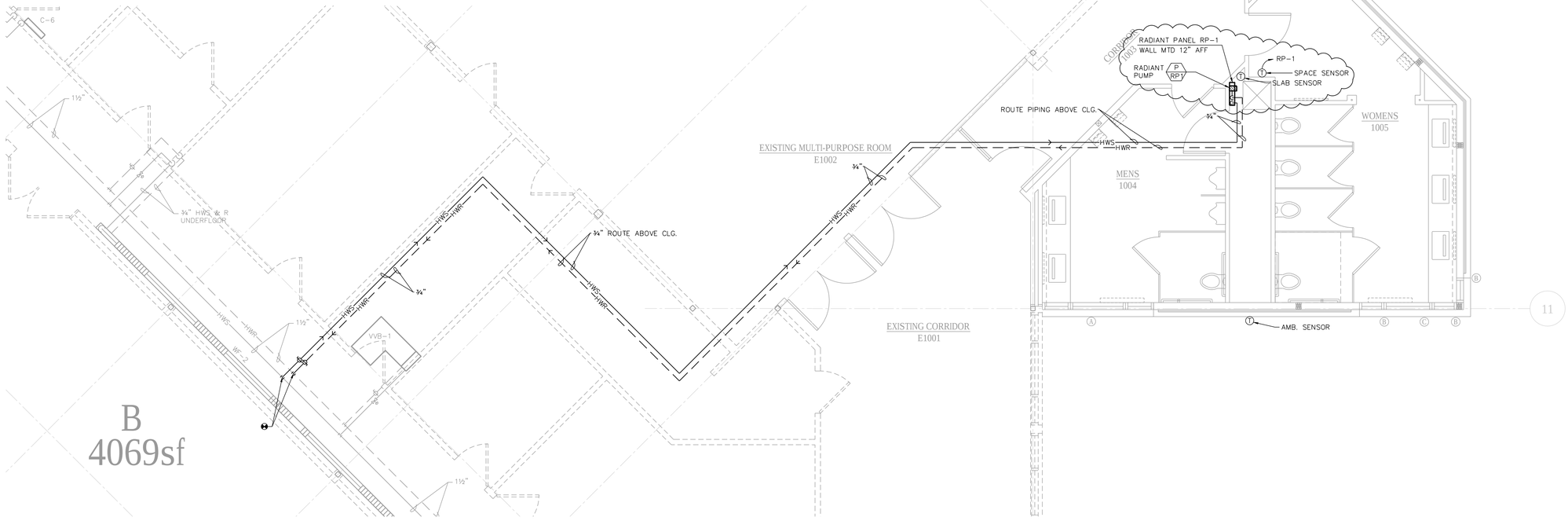
HVAC GENERAL NOTES:

1. HVAC CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF HVAC WORK WITH OTHER TRADES.
2. COORDINATE PROVISIONS FOR OPENINGS IN NEW CONSTRUCTION WITH THE GENERAL CONTRACTOR FOR APPROVAL PRIOR TO STARTING WORK.
3. HVAC CONTRACTOR IS RESPONSIBLE FOR CUTTING AND PATCHING WALLS, FLOORS & CEILINGS FOR NEW HVAC WORK, WHERE REQUIRED.
4. CONCEAL ALL CONTROL WIRING IN FINISHED AREAS.
5. COORDINATE PIPING ROUTING WITH OTHER TRADES TO MAINTAIN SCHEDULED CEILING HEIGHTS.
6. PROVIDE PROPER SERVICE CLEARANCES AND ACCESS SPACE FOR ALL NEW EQUIPMENT.
7. PROVIDE ACCESS PANELS AT INACCESSIBLE CEILINGS FOR EQUIPMENT, WHERE REQUIRED.
8. COORDINATE RADIANT FLOOR PIPE ROUTING LOCATIONS WITH GENERAL CONTRACTOR AND OTHER TRADES.

HVAC PLAN NOTES:

1. ROUTE RADIANT FLOOR PEX PIPING THROUGH PROTECTIVE METAL SLEEVE (SCH 40 PIPE) UNDER INTERIOR WALLS. REFER TO DETAILS.
2. EXTEND REMOTE TEMPERATURE SENSOR INTO SLAB INSIDE 1/2" EMT ELECTRICAL CONDUIT WITH END PLUGGED.
3. ALL RADIANT FLOOR PIPING AT TYPICALLY 12" O.C. UNLESS NOTED OTHERWISE ON PLAN.





2 HVAC PLAN - PIPING
1/4" = 1'-0"

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583 D'onofrio Drive, Suite 201
Madison, WI 53719
Office: 608-821-4775
Fax: 608-821-4780

HEIN Engineering Group
319 W. Beltline Hwy, Suite 111
Madison, WI 53713
Phone: (608) 288-9260
email: hein@chorus.net
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OLBRICH GARDENS RESTROOM ADDITION
3330 ATWOOD AVENUE
MADISON, WI

ISSUANCES:	
CD'S	12.21.12
CB# 1001	05.08.13

PROJECT:	
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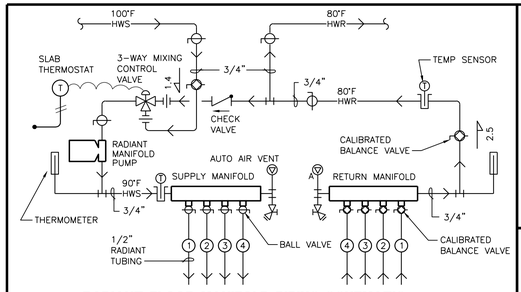
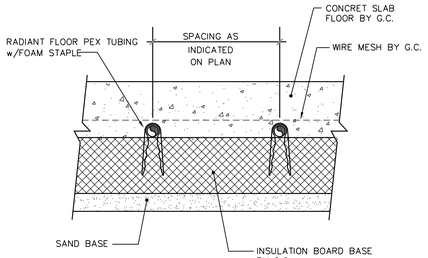
REV:	----

SHEET:
H102



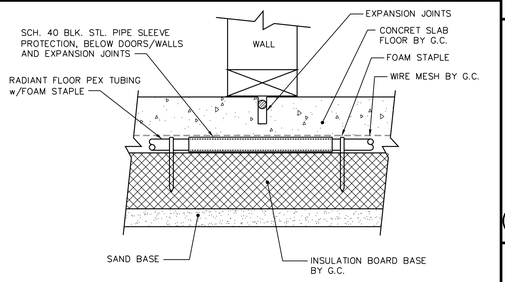
1 RADIANT FLOOR MANIFOLD PIPING SCHEMATIC

NTS



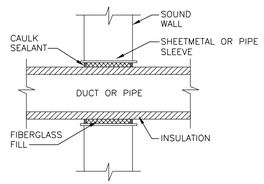
2 TYPICAL RADIANT SLAB SECTION

N.T.S.

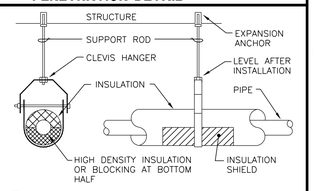


3 TYPICAL RADIANT TUBE PROTECTION SLEEVE

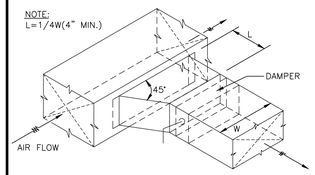
N.T.S.



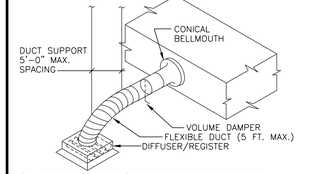
4 PIPE/DUCT SOUND WALL PENETRATION DETAIL



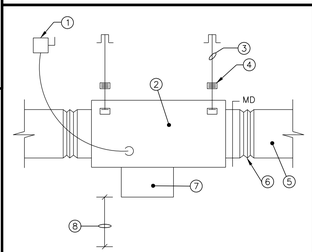
5 PIPE HANGER DETAIL



6 BRANCH DUCT TAKEOFF DETAIL-RECTANGLE



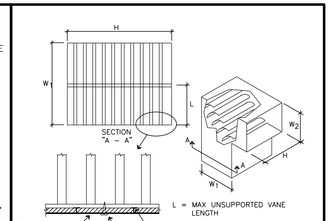
7 BRANCH DUCT TAKEOFF DETAIL-ROUND FLEXIBLE



INSTALLATION NOTES:

1. ELECT. DISCONNECT BY E.C.
2. INLINE FAN
3. SUPPORT RODS
4. SPRING VIBRATION ISOLATOR HANGER SUPPORTS
5. EXHAUST DUCTWORK
6. FLEXIBLE DUCT CONNECTION
7. MOTOR DRIVE & GUARD
8. PROVIDE SERVICE ACCESS
9. MOTORIZED BACKDRAFT DAMPER

8 INLINE EXHAUST FAN DETAIL



NOTES:

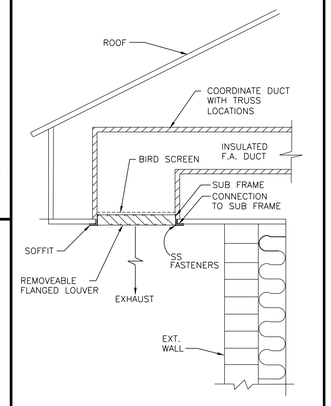
1 INSTALL VANES IN SECTIONS OR USE TIE RODS TO LIMIT UNBRACED VANE LENGTH

2 SECURELY FASTEN VANES TO RUNNERS TO ELIMINATE VIBRATION

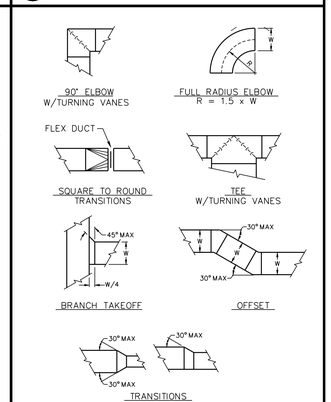
3 PREVENT LINING DAMAGE WHEN INSTALLING VANES IN LINED OR FIBROUS GLASS DUCT

9 TURNING VANES IN ELBOW

N.T.S.



10 SOFFIT EXHAUST AIR LOUVER DETAIL



11 STANDARD DUCT FITTINGS

DIFFUSERS, REGISTERS AND GRILLES SCHEDULE

TAG	MFGR	MODEL	SIZE NECK (WxH)	SIZE FACE (L)	MOUNTING	SERVICE	CFM	REMARKS
RG1	CARNES	RALMH-T	12"ø (20"x20")	24"x24"	T-BAR/CLG	RETURN	470-500	①③④ ALUM. RETURN GRILLE
TG1	CARNES	RALMH-T	20"x20"	24"x24"	T-BAR/CLG	TRANSFER	–	①③ ALUM. TRANSFER GRILLE
TG2	CARNES	RALMH-C	24"x16"	–	SURFACE/CLG	TRANSFER	–	①⑤ ALUM. TRANSFER GRILLE
TG3	CARNES	RALMH-C	20"x8"	–	SURFACE/CLG	TRANSFER	–	①⑤ ALUM. TRANSFER GRILLE
ER1	CARNES	RNJMH	6"x6"	–	DUCT	EXHAUST	75	①② ALUM. EXHAUST REGISTER
ER2	CARNES	RNJMH	15"x8"	–	SURFACE/WALL	EXHAUST	250	①②⑤ ALUM. EXHAUST REGISTER
ER3	CARNES	RNJMH	18"x8"	–	SURFACE/WALL	EXHAUST	300	①②⑤ ALUM. EXHAUST REGISTER

REMARKS:
① WHITE FINISH.
② OPPOSED BLADE DAMPER.
③ T-BAR PANEL.
④ SQUARE TO ROUND TRANSITION.
⑤ CONCEALED HANGER.

ER = EXHAUST REGISTER
TG = TRANSFER GRILLE
RG = RETURN GRILLE
RR = RETURN REGISTER

LOUVER SCHEDULE

TAG	MANUFACTURER	MODEL	TYPE	METAL	LOUVER DEPTH x W x HT	FREE AREA S.F.	SERVICE	REMARKS
L-1	VENT PRODUCTS	2730-31-34	STAT.	EXT. ALUM.	2" x 20" x 20"	1.01	EXHAUST AIR	①②③

① BIRD SCREEN - ALUM.
② FLANGED FRAME WITH BUCK FRAME.
③ POWDER COAT BAKED ENAMEL FINISH; FINAL COLOR SELECTION BY ARCHITECT.

PUMP SCHEDULE

TAG	P-RP1
MANUFACTURER	GRUNDFOS
MODEL NO.	UP15-42F
TYPE	INLINE
LOCATION	BASEMENT MECH.
SERVICE	HW RADIANT PANEL-RP-1
GPM	3
TDH (FT)	10
BHP (WATTS)	(85)
EFFICIENCY (%)	N.A.
SUCTION I.D.	3/4"ø
OUTLET I.D.	3/4"ø
MOTOR: HORSEPOWER	1/25
VOLTAGE/PHASE	115/1
FLA	0.74
REMARKS:	RADIANT FLR RP-1

RP-1 RADIANT FLOOR SCHEDULE

LOOP #	①	②	③	④
SERVICE	CORRIDOR 1003	WOMEN'S 1005	WOMEN'S 1005	MEN'S 1004
UPWARD LOAD(BTUH/FT²)	16	16	16	16
TOTAL LOAD(BTUH/FT²)	20	20	20	20
TOTAL LOAD(BTU/HR)	2900	3200	3200	2600
FLR COVERING R-VALUE	0.25	0.25	0.25	0.25
PNL SURFACE TEMP(°F)	80	80	80	80
AREA (FT)	144	162	130	130
TUBE SIZE (IN)	1/2"	1/2"	1/2"	1/2"
ROOM LOOP LENGTH(FT)	177	128	125	146
LEADER LENGTH (FT)	10	10	10	10
TOTAL LOOP LENGTH(FT)	187	138	135	156
EWT (°F)	90	90	90	90
FLOW (GPM)	0.6	0.7	0.7	0.5
LOOP WPD (FT)	2.7	2.8	2.8	1.7

MANIFOLD TOTALS:
SUPPLY WATER TEMP (°F) = 100
RETURN WATER TEMP (°F) = 80
MANIFOLD FLOW (GPM) = 1.2
MANIFOLD SUPPLY FLOW (GPM) = 2.5
ROOM SPACE TEMP (°F) = 70
MANIFOLD SIZE = 1"ø
MANIFOLD HEATING CAP (MBH) = 11.9

EXHAUST FAN SCHEDULE

TAG	EF-13
MANUFACTURER	GREENHECK
MODEL NO.	SQ-100-VG
AREA SERVED	TOILETS & MECH.
CFM	625
ESP "WG	1/2"
RPM	1249
MOUNTING	SPRING VIB. HANGERS
DRIVE	DIRECT
SONES (INLET/RADIATED)	6.3/3.0
ELECTRICAL: MOTOR HP (BHP)	1/4 (0.06)
FAN F.L.A.	5.8
VOLTAGE/PHASE	115/1
CONTROL	OCCUPIED BLDG MODE
REMARKS:	INLINE EF ①②③④⑤⑥⑦

NOTE: ALL EF LINE VOLTAGE CONTROLS WIRED BY E.C.
① INTERLOCK EF-13 WITH TEMPERATURE CONTROL BUILDING OCCUPIED MODE SCHEDULE.
② ECM MOTOR WITH UNIT-MOUNTED POTENTIOMETER FOR BALANCING.
③ SPRING/NEOPRENE VIBRATION ISOLATION HANGERS.
④ MOTORIZED (115V) OPPOSED BLADE, LOW-LEAKAGE DAMPER.
⑤ DIRECT-COUPLED EXTERNAL ACTUATOR (BELIMO).
⑥ NEMA 1 DISCONNECT SWITCH UNIT-MOUNTED.
⑦ CLOSED-CELL INSULATED HOUSING.

HVAC SYMBOL SCHEDULE

SYMBOL	DESCRIPTION
	PIPING
HWS	HOT WATER SUPPLY PIPING
HWR	HOT WATER RETURN PIPING
C	CONDENSATE PIPING
	PIPE UP
	PIPE DOWN
	BALL VALVE
	DRAIN VALVE
	TWO WAY TEMP CONTROL VALVE
	THREE WAY TEMP CONTROL VALVE
	CALIBRATED BALANCING VALVE
	INLINE STRAINER
	UNION
	THERMOMETER
	FLEXIBLE CONNECTION
	ANCHOR
	T & P TEST WELL
A	AIR VENT A = AUTOMATIC M = MANUAL
	REDUCER, CONCENTRIC
	IMMERSION WELL
	SQUARE/RECTANGULAR SUPPLY DIFFUSER, GRILLE OR REGISTER-HORIZONTAL MOUNT
	SQUARE/RECTANGULAR RETURN/EXHAUST REGISTER OR GRILLE-HORIZONTAL MOUNT
	SUPPLY REGISTER OR GRILLE VERT. MOUNT
	RETURN/EXHAUST REGISTER OR GRILLE VERT. MOUNT
	VERTICAL SUPPLY DUCT DOWN
	VERTICAL RETURN/EXHAUST DUCT DOWN
	VOLUME DAMPER
MD	MOTORIZED DAMPER
	FLEXIBLE CONNECTION
	SQUARE ELBOW W/TURNING VANES
R	RADIUS ELBOW,R/D = 1.5
W	RADIUS TAKEOFF R/D = 1.5 "X"=TAKE-OFF WIDTH
D	DUCT RISE(R) OR DROP(D)
A / 100	DIFFUSER/REGISTER/GRILLE TYPE / CFM
100	EXHAUST CFM
	EQUIPMENT SYMBOL NO.
T	THERMOSTAT
	EQUIPMENT SYMBOLS
AP	ACCESS PANEL
EF	EXHAUST FAN
L	LOUVER
P	PUMP
	ABBREVIATIONS
ACD	AUTOMATIC CONTROL DAMPER
EA	EXHAUST AIR
FA	FRESH AIR
RA	RETURN AIR
SA	SUPPLY AIR
AFF	ABOVE FINISHED FLOOR
BOD	BOTTOM OF DUCT
ø	DIAMETER
TG	TRANSFER GRILLE
TD	TRANSFER DUCT

DESTREE architecture & design
222 West Washington Ave, Suite 310, Madison, WI 53703
ph: 608.268.1499 fax: 608.268.1498 www.desfreearchitects.com

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(mp)² STRUCTURAL ENGINEERS, LLC
583 D'onofrio Drive, Suite 201
Madison, WI 53719
Office: 608-821-4776
Fax: 608-821-4780

HEIN Engineering Group
319 W. Beltline Hwy, Suite 111
Madison, WI 53713
Phone: (608) 288-9260
email: hein@chorus.net
Project No. H1222

OLBRICH GARDENS RESTROOM ADDITION

3330 ATWOOD AVENUE
MADISON, WI

ISSUANCES:

CD'S	12.21.12
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PROJECT:

NUMBER:	120410.00
DATE:	12.21.12
REV:	----

SHEET: H103

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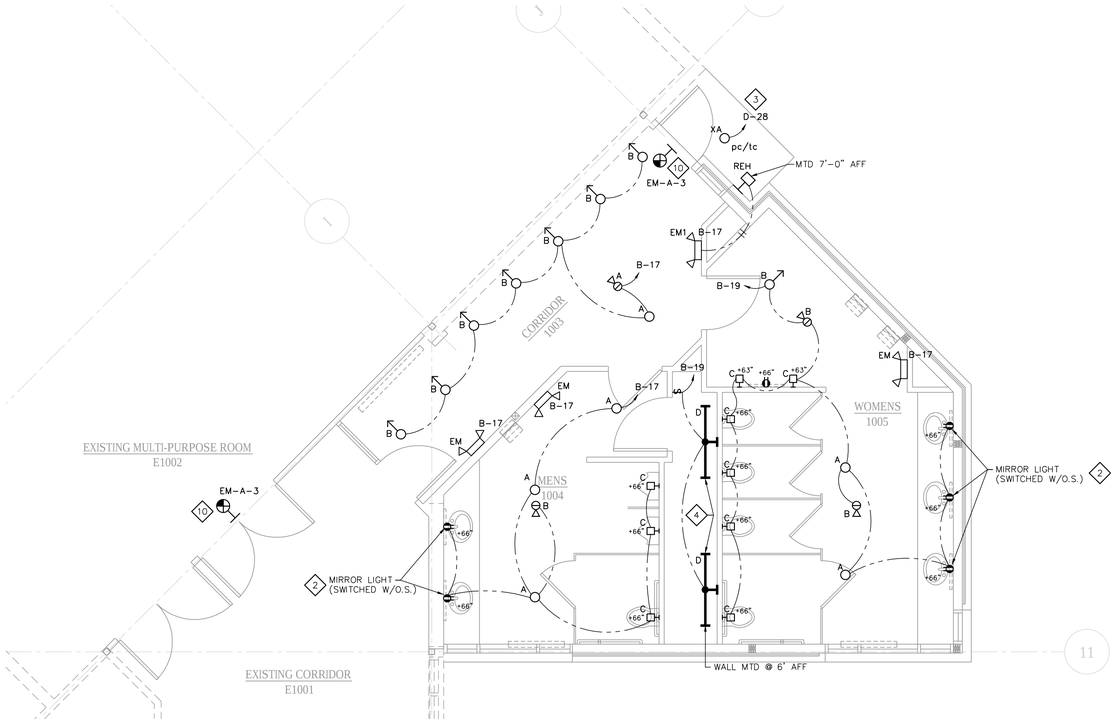
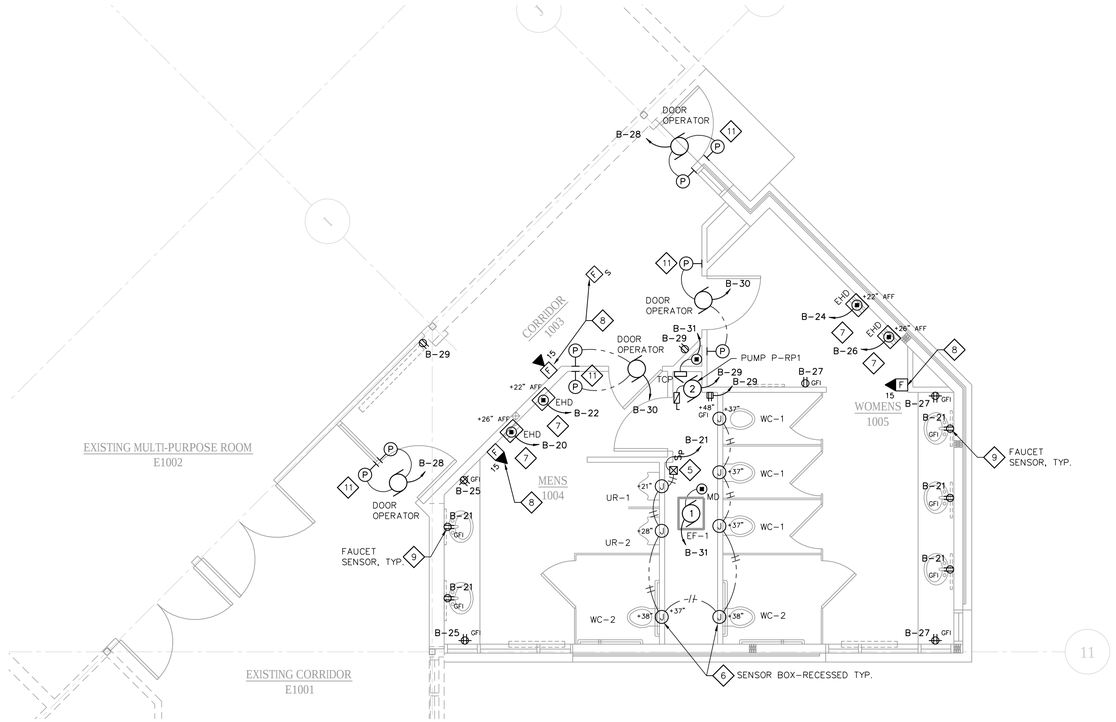
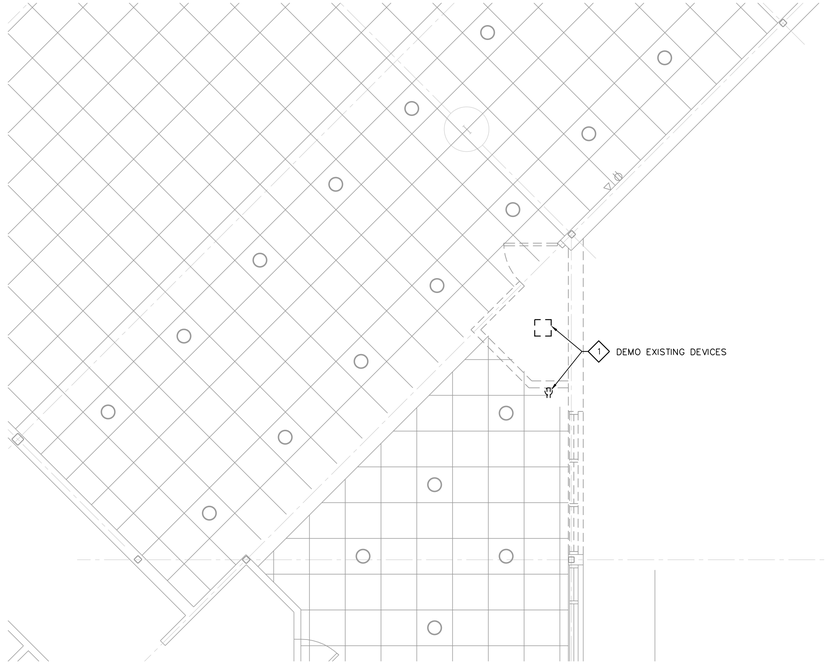


1 ELECTRICAL LIGHTING PLAN
1/4" = 1'-0"



2 ELECTRICAL POWER/LV PLAN
1/4" = 1'-0"



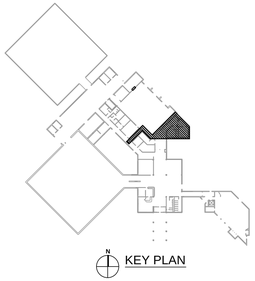
3 ELECTRICAL DEMOLITION PLAN
1/4" = 1'-0"

ELECTRICAL GENERAL NOTES:

1. COORDINATE LIGHTING LAYOUT WITH GENERAL CONTRACTOR AND OTHER TRADES FOR CEILING-MOUNTED EQUIPMENT.
2. ALL RACEWAYS ARE TO BE CONCEALED IN FINISHED AREAS. MECHANICAL & UTILITY AREAS (121) MAY USE SURFACE CONDUIT SYSTEMS.
3. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL EXISTING CONDITIONS.
4. COORDINATE AND SCHEDULE ALL WORK WITH THE GENERAL CONTRACTOR AND LOW-VOLTAGE CABLING PRIOR TO STARTING.
5. EXTEND LIGHTING AND POWER CIRCUITS AS INDICATED FROM PANEL 'B (SQUARE 'D' – NQ) IN STORAGE 33 AS LOCATED BY BUILDING PLAN ON SHEET E102. PROVIDE NEW 20A/1P CIRCUIT BREAKERS (SQUARE 'D' QOB120) FOR NEW CURCUITS.
6. EXTEND EXIT LIGHT TO NEAREST EXIST CIRCUIT FROM EMERGENCY PANEL 'EMA' CIRCUIT #3.

ELECTRICAL POWER/LV PLAN NOTES:

1. DISCONNECT AND REMOVE EXISTING RECEPTACLE AND LIGHT FIXTURE . REMOVE CONDUCTORS AND RACEWAY SYSTEM BACK TO FIRST JUNCTION BOX OR DEVICE BOX.
2. COORDINATE SWITCH RECEPTACLE FINAL LOCATION WITH ILLUMINATED MIRROR REPLACEMENT BY THE GENERAL CONTRACTOR.
3. EXTEND EXTERIOR SOFFIT LIGHT TO NEAREST EXTERIOR LIGHTING CIRCUIT (D-28) OUTSIDE MULTIPURPOSE RM12.
4. COORDINATE MOUNTING SURFACE OF LIGHT FIXTURES WITH PIPING, DUCTWORK AND OTHER EQUIPMENT FOR CONFLICTS.
5. COORDINATE POWER TO LOW-VOLTAGE TRANSFORMER FOR FLUSH VALVES BY PLUMBING TRADE. PROVIDE MASTER PILOT LIGHT SWITCH FOR POWER TO FLUSH VALVES AND LABEL. ROUTE ALL LV CABLING IN RACEWAY.
6. PROVIDE 4"x4"x2⅛" RECESSED BOX WITH PLASTER RING FOR SENSOR MOUNTING HEIGHT TO CENTER OF BOX. COORDINATE INSTALLATION WITH PLUMBING TRADE. COORDINATE FINAL MOUNTING HEIGHT LOCATION WITH GENERAL CONTRACTOR.
7. PROVIDE 4"x4"x2⅛" RECESSED BOX WITH PLASTER RING FOR SENSOR MOUNTING. NOTE – MOUNTING HEIGHT TO CENTER OF BOX. COORDINATE INSTALLATION WITH PLUMBING TRADE. PROVIDE POWER CONNECTION TO HAND DRYERS (1400W, 120V/1Ø). COORDINATE FINAL MOUNTING HEIGHT LOCATION WITH GENERAL CONTRACTOR.
8. EXTEND EXISTING FIRE ALARM SYSTEM INITIATION AND ANNUCIATION CIRCUITS TO NEW FA DEVICES. REFER TO BUILDING PLAN ON SHEET E102 FOR FA EQUIPMENT LOCATIONS.
9. COORDINATE FINAL RECEPTACLE LOCATION WITH PLUMBING TRADE FOR FAUCET SENSOR POWER.
10. EXTEND EXIT LIGHT POWER TO NEAREST EXISTING EXIT LIGHT CIRCUIT (PANEL 'EMA' CKT#3).
11. COORDINATE POWER AND CONTROL WIRING AND RACEWAY REQUIREMENTS FOR DOOR OPERATORS WITH GENERAL CONTRACTOR. DOOR OPERATOR IN DOOR FRAME, WHERE INDICATED.



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architecture & design
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ph: 608.268.1499 fax: 608.268.1496 www.desireearchitects.com
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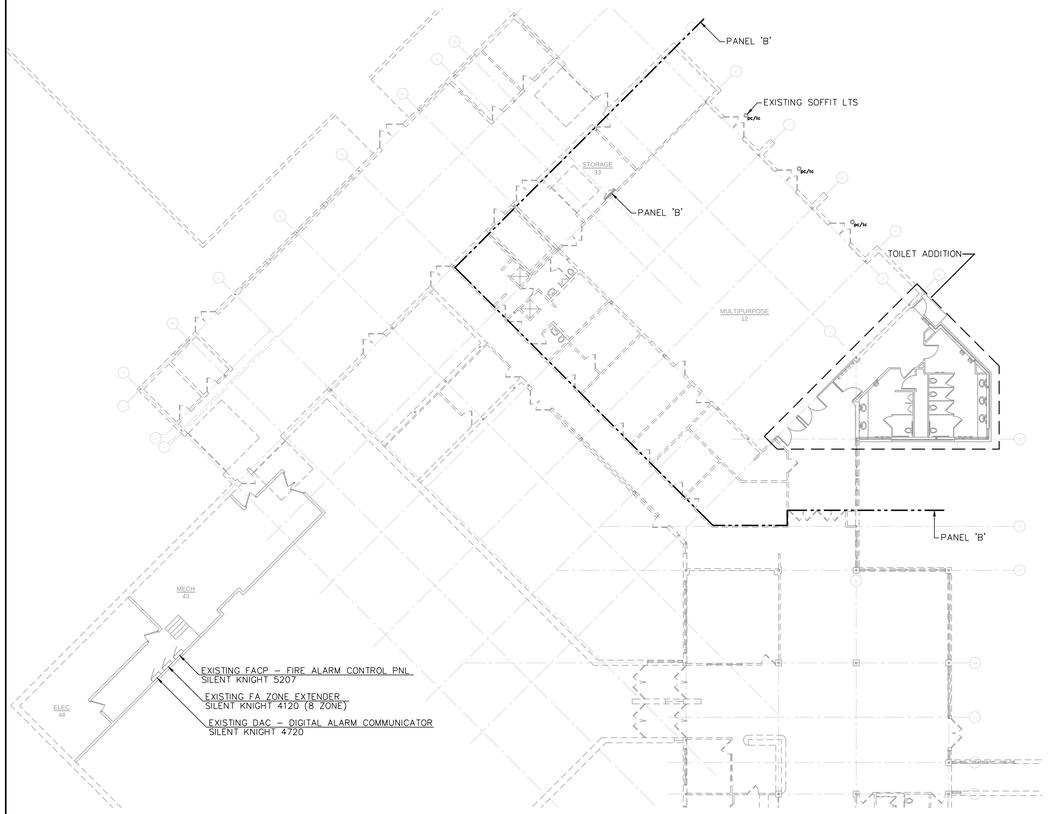


N

1 ELECTRICAL BUILDING PLAN
1/16" = 1'-0"

OCCUPANCY SENSOR SCHEDULE

SYMBOL	MOUNTING	VOLTAGE	RATED CURRENT /LOAD	SENSOR TYPE	SENSOR COVERAGE	MFGR. & MODEL	REMARKS
A	RECESSED/ CLG	120 VAC	800 Watt	PIR	360° 48'x48'	SENSOR SWITCH RMR-10	(1) RECESSED CLG PIR LINE VOLTAGE - EXTENDED RANGE
B	RECESSED/ CLG	120 VAC	800 Watt	PIR	360° 24'x24'	SENSOR SWITCH RMR-PDT-9	RECESSED CLG DT LINE VOLTAGE
OS	WALL SWITCH	120 VAC	800 Watt	PIR	160° 20'	SENSOR SWITCH WSD	WALL SWITCH

ABBREVIATIONS:
PIR=PASSIVE INFRARED
U=ULTRASONIC
DT=DUAL TECHNOLOGY (PIR+U)

REMARKS:
(1) EXTENDED RANGE COVERAGE.

LIGHTING FIXTURE SCHEDULE

TAG	NO.	TYPE	WATTS	DESCRIPTION	MOUNTING	MFGR. & MODEL	REMARKS
A	1	LED	21	W/FIXTURE	RECESSED/ CLG.	MAXILUME - HV6-LED-21W-DIM10-120-FL-41K(HOUSING)+LED-6114-SHZ-WH(TRIM)	(2) 6"ø DOWNLIGHT FLOOD FROSTED LENS
B	-	LED	21	W/FIXTURE	RECESSED/ CLG.	MAXILUME - HV6-LED-21W-DIM10-120-FL-FL-41K(HOUSING)+LED-6107-WH(TRIM)	(2) 6"ø WALL WASHER FLOOD
C	-	LED	10	W/FIXTURE	SURFACE/ WALL	TECH LIGHTING - 700WSCOS-Y-Z-LED	(2) WALL SCONCE ACRYLIC LENS - ANTIQUE BRONZE
D	2	F	28	F28T5/841	SURFACE	LITHONIA - WC-22815-A12-MVOLT-GEB10PS	(1) 2L 4FT LENSED UTILITY
XA	1	LED	14	W/FIXTURE	RECESSED/ SOFFIT	ELITE LED LIGHTING - B6IC-LED-14W-120V-FL-40K-AT(HOUSING)+L659CL-WH (TRIM)	(2)(4) EXT. 6"ø RECESSED CAN W/PRISMATIC LENS
EM	2	TH	5.4	6V	SURFACE/ WALL	LITHONIA - ELM2	EMERGENCY EGRESS LIGHT w/ BATTERY BACK-UP
EM1	2	TH	9	6V	SURFACE/ WALL	LITHONIA - ELM654 (54 WATTS, 6V)	(6) EMERGENCY EGRESS LIGHT w/BATTERY BACK-UP & ADD'L REMOTE HEAD
REH	2	TH	6	6V	SURFACE/ WALL	LITHONIA - ELA-AFNR-DB	(6) WALL-MTD @ 7'-0" REMOTE EXT. EM HEAD-DUAL LAMPS
	-	LED	-	w/FIXTURE	SURFACE	LITHONIA - TLE-W-1-G-ELN	(5) EXIT LIGHT w/BATTERY BACK-UP

LAMP ABBREVIATIONS:
LED=LIGHT EMITTING DIODE
CF=COMPACT FLUORESCENT
F=FLUORESCENT
IN=INCANDESCENT
TH=TUNGSTEN HALOGEN
HPS=HIGH PRESSURE SODIUM
MH=METAL HALIDE

REMARKS:
(1) ELECTRONIC PROGRAM START BALLAST - REFER TO SPECIFICATIONS.
(2) LED LIGHTING.
(3) GWB CEILING FLANGE KIT.
(4) WET LOCATION UL LISTED.
(5) CONTRACTOR TO PROVIDE EXIT FIXTURE MOUNTING AS INDICATED ON DRAWING.
(6) EXTEND REMOTE HEADS TO BATTERY PACK.
(7) FINAL FINISH COLOR TO BE SELECTED BY OWNER/ARCHITECT.

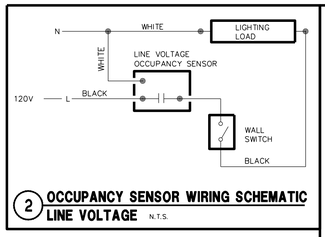
ALL FIXTURE VOLTAGES ARE 120 VOLT UNLESS INDICATED OTHERWISE.

ELECTRICAL MOTOR/EQUIPMENT SCHEDULE

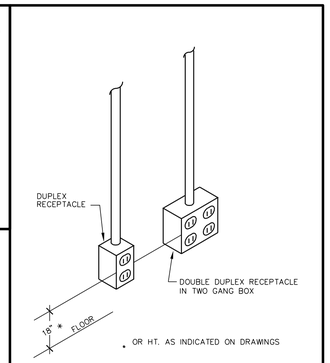
TAG	1	2	3	4	5
PANEL NO.	B(b)	B(a)			
CIRCUIT	31	29			
BREAKER	15	20			
POLE	1	1			
WIRING NO. ①	2+G (#12)	2+G (#12)			
TYPE	THHN	THHN			
SIZE	#12	#12			
COND.	1/2"	1/2"			
ELECTRICAL HP	1/4	1/25			
VOLT	115	115			
PHASE	1	1			
FLA (MCA)	5.8 (7.3)	0.74 (0.0)			
STARTER TYPE	N.R.	N.R.			
SIZE	-	-			
BY	-	-			
CONTROL TYPE	T.C.C. OCCUPIED MODE	T.C.C. HTG MODE			
BY	T.C.C.	T.C.C.			
DISCONNECT TYPE	w/UNIT	NEMA 1 M.S.			
SIZE	-	15			
FUSE	-	T.U.			
BY	H.C.	E.C.			
REMARKS	EXHAUST FAN EF-1	RADIANT FLOOR PUMP			

E.C. = ELECTRICAL CONTRACTOR
H.C. = HVAC CONTRACTOR
T.C.C. = TEMPERATURE CONTROL CONTRACTOR
P.C. = PLUMBING CONTRACTOR
G.C.=GENERAL CONTRACTOR
N.R.= NOT REQUIRED
G.D.= GENERAL DUTY
H.D.= HEAVY DUTY
M.S.= MANUAL STARTER (FRAC & HP)
T.U.= THERMAL UNIT

① PROVIDE GREEN WIRE GROUND TO ALL MOTORS AND EQUIPMENT PER NEC 250-95.



2 OCCUPANCY SENSOR WIRING SCHEMATIC LINE VOLTAGE N.T.S.



3 BACKBOX INSTALLATION DETAIL RECEPTACLE
N.T.S.

Rev'd 5-09

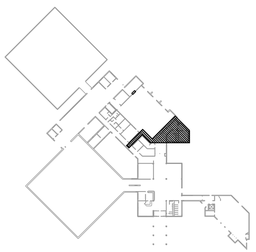
ELECTRICAL SYMBOL SCHEDULE

MOUNTING HGT.	SYMBOL	DESCRIPTION
	PANEL/CIRC.# TYPE SWITCHING	
		LIGHTING FIXTURES
		LED: SURFACE/ PENDANT
		LED: RECESSED
		LED: SURFACE/WALL MTD
		FLUORESCENT: SURFACE, CEILING MOUNTED
		FLUORESCENT: SURFACE, WALL MOUNTED
		EXIT LIGHT: ARROWS, FACES & MOUNTING AS SHOWN ON DRAWINGS
		EMERGENCY LIGHT W/ BATTERY PACK: WALL MOUNTED
		REMOTE EMERGENCY HEAD
		SWITCHES
48"	$	SINGLE POLE
48"	$OS	OCCUPANCY SENSOR CONTROLLED WALL SWITCH
		RECEPTACLES
	GFI	DUPLEX: RECESS MOUNTED W/GROUND FAULT INTERRUPTION PROTECTION
18"		DUPLEX: SURFACE MTD
		DUPLEX RECEPT. MOUNTED ABOVE CASEWORK BACKSPLASH
18"		DUPLEX: RECESS SWITCHED
		EQUIPMENT AND WIRING
		DIRECT EQUIPMENT CONNECTION
		MOTOR CONNECTION-SEE EQUIP. SCHEDULE FOR TYPE, WIRING, ETC.
	J	JUNCTION BOX-CONCEALED IN FINISHED AREAS, SURFACE IN UNFINISHED AREAS
	P	PUSH PLATE - DOOR OPERATOR CONTROL
		SAFETY DISCONNECT SWITCH WITH COVER INTERLOCK-W.P. INDICATES WATERPROOF (NON-FUSED UNLESS INDICATED BY 'F'-FUSED)
		ELECTRICAL POWER PANEL
	#	OCCUPANCY SENSOR
		CEILING MTD TYPE
		FIRE ALARM SYSTEMS
90"	F	FIRE ALARM HORN/VISUAL STROBE CANDELA-ILLUMINATION LEVEL
90"	F	FIRE ALARM STROBE CANDELA-ILLUMINATION LEVEL
90"	F S	FIRE ALARM SMOKE DETECTOR- CLG. MTD.
	FACP	FIRE ALARM CONTROL PANEL
	DAC	FIRE ALARM DIGITAL ALARM COMMUNICATOR

ABBREVIATIONS

SUBSCRIPTS
AFF=ABOVE FINISH FLOOR
GFI=GROUND FAULT INTERRUPTER
NL=NIGHT LIGHT-24 HOURS
PC=PHOTOCELL CONTROLLED
PC/TC=PHOTOCELL ON/ TIMECLOCK OFF
TC=TIMECLOCK CONTROLLED
WP=WEATHERPROOF

EQUIPMENT
EF=EXHAUST FAN
WH= WATER HEATER
EWH=ELECT. WALL HEATER



KEY PLAN

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ph: 608.268.1499 fax: 608.268.1496 www.desireearchitects.com
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(mp)2 STRUCTURAL ENGINEERS, LLC
583 D'onofrio Drive, Suite 201
Madison, WI 53719
Office: 608-821-4770
Fax: 608-821-4780

HEIN Engineering Group
319 W. Beltline Hwy, Suite 111
Madison, WI 53713
Phone: (608) 288-9260
email: hein@chorus.net
Project No. H1222

OLBRICH GARDENS RESTROOM ADDITION
3330 ATWOOD AVENUE
MADISON, WI

ISSUANCES:

CD'S	12.21.12
----	----

PROJECT:

NUMBER:	120410.00
DATE:	12.21.12
REV:	----

SHEET:
E102

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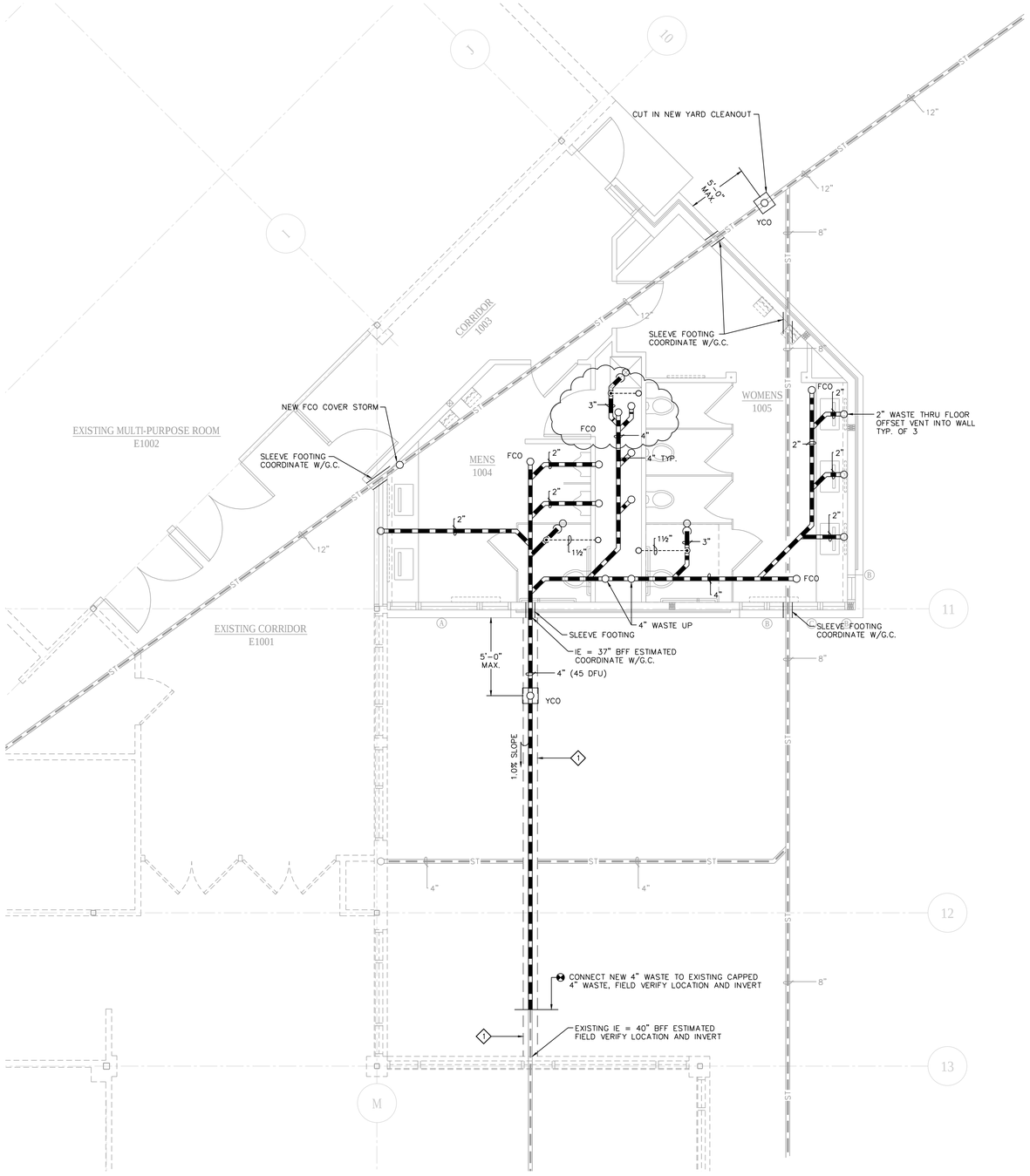

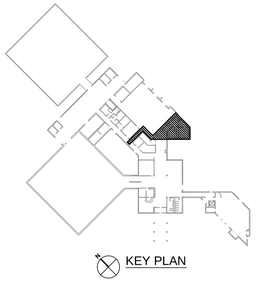

PLUMBING GENERAL NOTES:

1. PLUMBING CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL EXISTING CONDITIONS.
2. COORDINATE CUTTING AND PATCHING OF EXISTING SURFACES WITH GENERAL CONTRACTOR FOR APPROVAL PRIOR TO STARTING WORK.
3. PLUMBING CONTRACTOR IS RESPONSIBLE FOR CUTTING AND PATCHING EXISTING WALLS, FLOORS & CEILINGS FOR NEW PLUMBING WORK.
4. PATCH ALL EXISTING SURFACES TO ORIGINAL CONDITION.
5. FIRE PROOF AND CAULK ALL FIRE RATED PENETRATION AND ASSEMBLIES.
6. OWNER SHALL ABATE AND REMOVE ALL ASBESTOS MATERIALS, IF PRESENT.
7. COORDINATE PIPING ROUTING WITH OTHER TRADES TO MAINTAIN SCHEDULED CEILING HEIGHTS.

PLUMBING PLAN NOTES:

1. INSULATE EXTERIOR WASTE PIPING PER DETAIL 3/P102 & SPS 382.30(11)c(3).

N

1 UNDERGROUND PLUMBING PLAN
1/4" = 1'-0"

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222 West Washington Ave, Suite 310, Madison, WI 53703
ph: 608.268.1499 fax: 608.268.1498 www.destreearchitects.com

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(mp)² STRUCTURAL ENGINEERS, LLC
583 D'onofrio Drive, Suite 201
Madison, WI 53719
Office: 608-821-4770
Fax: 608-821-4780

HEIN Engineering Group
319 W. Beltline Hwy, Suite 111
Madison, WI 53713
Phone: (608) 288-9260
email: hein@chorus.net
Project No. H1222

OLBRICH GARDENS RESTROOM ADDITION
3330 ATWOOD AVENUE
MADISON, WI

ISSUANCES:	
CD'S	12.21.12
CB# 1001	05.08.13

PROJECT:	
NUMBER:	120410.00
DATE:	12.21.12
REV:	----

SHEET: P100

PLUMBING GENERAL NOTES:

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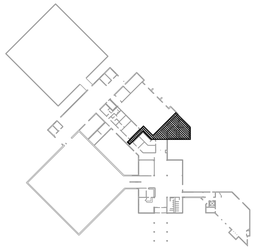
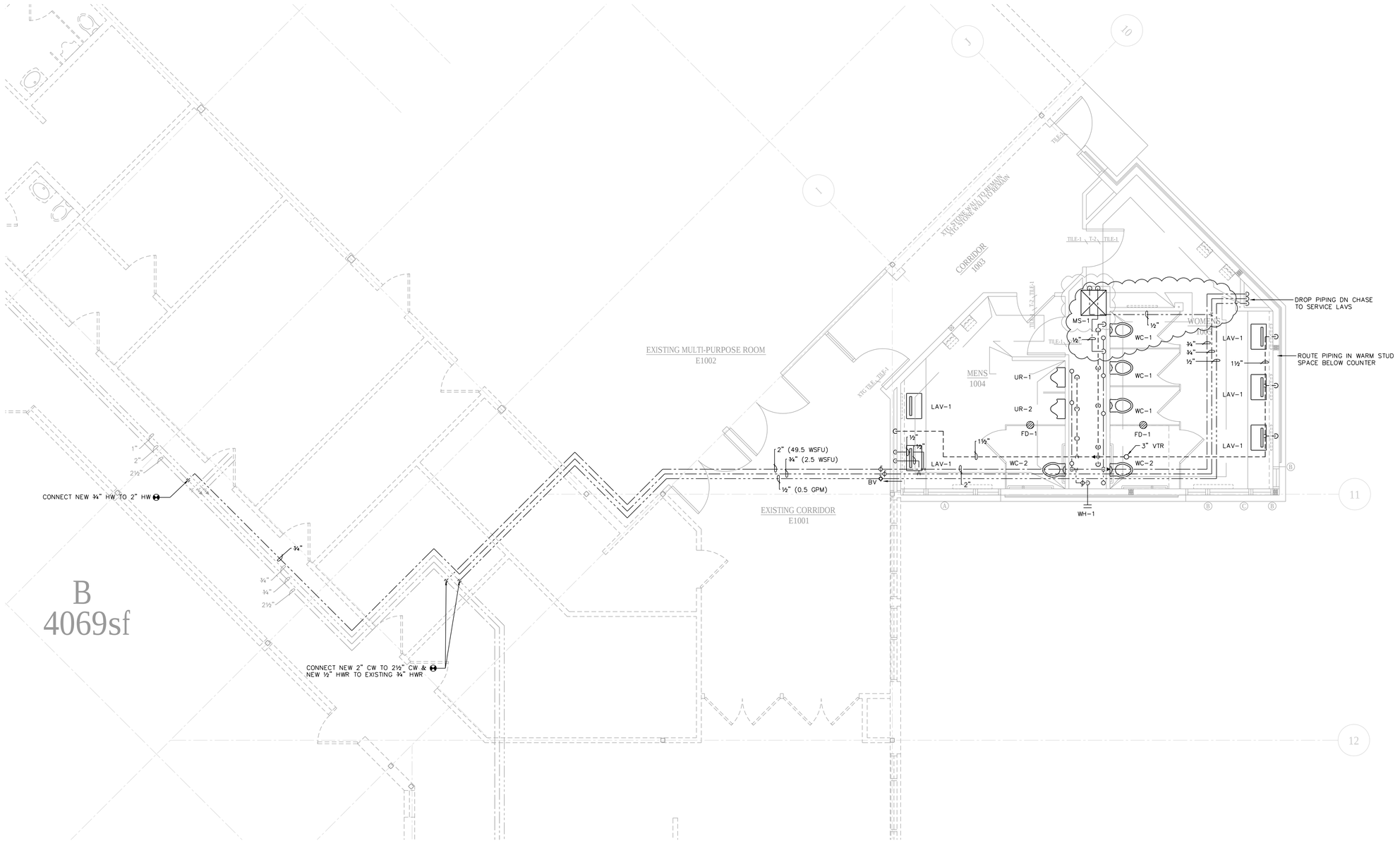


KEY PLAN



N

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

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architecture & design
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ph: 608.268.1499 fax: 608.268.1498 www.destreearchitects.com

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(mp)² STRUCTURAL ENGINEERS, LLC
581 Donofro Drive, Suite 201
Madison, WI 53717
Office: 608-821-4770
Fax: 608-821-4780

HEIN Engineering Group
319 W. Beltline Hwy, Suite 111
Madison, WI 53713
Phone: (608) 288-9260
email: hein@chorus.net
Project No. H1222

OLBRICH GARDENS RESTROOM ADDITION

3330 ATWOOD AVENUE
MADISON, WI

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CB# 1001	05.08.13

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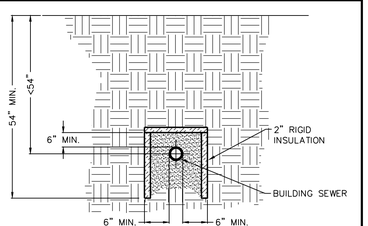
SHEET: P101



3 EXTERIOR WASTE PIPE INSULATION
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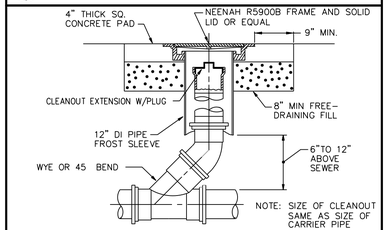

4 CLEANOUT W/FROST SLEEVE DETAIL
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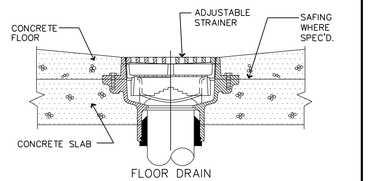
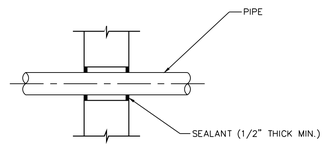
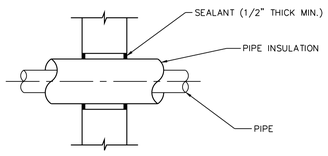


5 FLOOR DRAIN (FD-1)
N.T.S.



WITHOUT PIPE INSULATION



WITH PIPE INSULATION

6 PIPE THRU NON-RATED INTERIOR WALL
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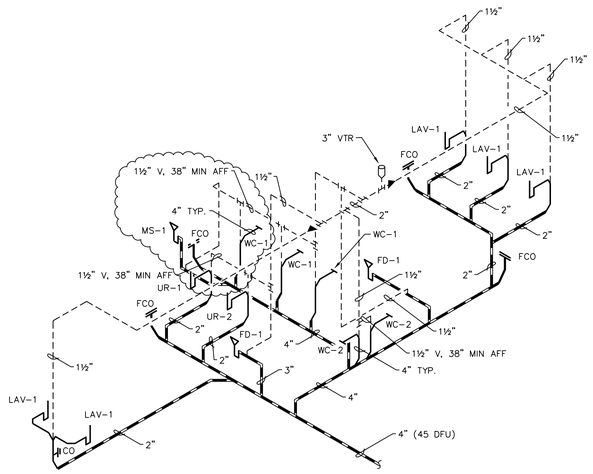
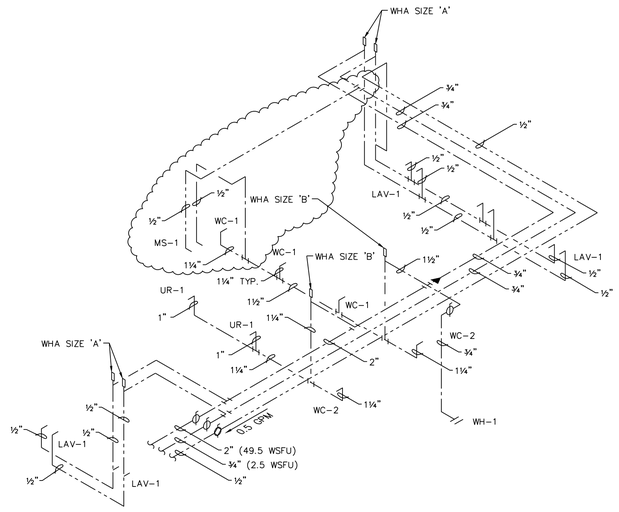


1 WASTE & VENT RISER
N.T.S.



2 WATER PIPING RISER
N.T.S.

PLUMBING FIXTURE SCHEDULE

P#	FIXTURE	WASTE	VENT	CW.	HW.	DESCRIPTION
WC-1	WATER CLOSET	4"	1-1/2"	1"	--	VITREOUS CHINA, WHITE, WALL-MTD. ELONGATED BOWL, REAR SPUD, RIM @ 16" AFF FIXTURE EQUAL TO KOHLER KINGSTON K-4323, SLOAN OPTIMA 152-1.6 ES-S SENSOR OPERATED FLUSH VALVE (1.6 GPF) & BEMIS 1955-SSC OPEN FRONT SEAT. PROVIDE EL-154 (120v) TRANSFORMER & VERTICAL ADJ. WALL CARRIERS EQUAL TO SMITH 0230 SERIES.
WC-2	WATER CLOSET ADA	4"	1-1/2"	1"	--	SAME AS WC-1 EXCEPT RIM MTD @ 17" ADA COMPLIANT.
UR-1	URINAL	2"	1-1/2"	3/4"	--	VITREOUS CHINA, WHITE, WALL HUNG, REAR SPUD, RIM MTD. @ 24" AFF. KOHLER BARDON MODEL K-4904-ER WITH SLOAN 195-1.0 ES-S SENSOR-CONTROLLED FLUSH VALVE (1.0 GPF), S.S. BEEHIVE STRAINER. PROVIDE EL-154 (102V) TRANSFORMER & VERTICAL ADJ. WALL CARRIER EQUAL TO SMITH 0630 SERIES.
UR-2	URINAL ADA	2"	1-1/2"	3/4"	--	SAME AS UR-1 EXCEPT RIM MTD @ 17" ADA COMPLIANT.
LAV-1	LAVATORY ADA	1-1/4"	1-1/2"	1/2"	1/2"	INTEGRAL BOWL, (2-HOLE 4" O.C.) W/BRADLEY AERADA 1200 SERIES CS FAUCET, S53-315, w/BRADLEY PLUG-IN ADAPTER 153-443 & S59-4004XS MIXING VALVE, PROWRAP 2000 INSULATION GUARDS, KOHLER 8998 P-TRAP WITH CLEANOUT. ADA COMPLIANT.
WH-1	WALL HYDRANT	--	--	3/4"	--	KEY-OPERATED, FREEZELESS, AUTOMATIC DRAINING WITH ANTI-SIPHON VB & FLUSH TAMPER-PROOF BOX W/HINGED COVER. EQUAL TO WOODFORD MODEL B65-PB. (ASSE 1011)
FD-1	FLOOR DRAIN	3"	1-1/2"	--	--	POLISHED BRONZE ADJ. SQUARETOP W/PROSET TRAP GUARD EQUAL TO SMITH MODEL 2005Y-B-PB (NO HUB), 2010C-B-PB (CAULKED OUTLET).
FCO	FLOOR CLEANOUT	SEE PLAN	--	--	--	POLISHED BRONZE FLOOR ACCESS COVER w/SQUARE FRAME & SECURED COVER EQUAL TO SMITH MODEL 4930-PB.
MS-1	MOP SINK	3"	1-1/2"	1/2"	1/2"	FLOOR-MOUNTED MOLDED STONE EQUAL TO MUSTEE MODEL #63M WITH #63.700 HOSE & HOSE HOLDER, #65.600 MOP HANGER & #67.2424 WALLGUARDS, CHICAGO 897 FAUCET WITH HOSE CONN. VB (WATTS 8A-ASSE 1011).

PLUMBING SYMBOL SCHEDULE

SYMBOL	DESCRIPTION
	EXISTING WASTE UNDERGROUND
ST	EXISTING WASTE UNDERGROUND
	EXISTING COLD WATER
	EXISTING HOT WATER
	EXISTING HOT WATER RETURN
	EXISTING VENT
	UNDERGROUND WASTE PIPING
	COLD WATER
	HOT WATER
	HOT WATER RETURN
	VENT
	PIPE UP
	PIPE DOWN
CO	CLEAN OUT
WCO	WALL CLEAN OUT

WATER SERVICE SIZING:

HOT WATER DISTRIBUTION SIZING:

PERMISSABLE UNIFORM PRESSURE LOSS FOR FRICTION (A):
(P.S.I./100' OF PIPE)

1) 80.0 PSI AVAILABLE PRESSURE REDUCING VALVE

2) 4 FT DIFFERENCE IN ELEVATION FROM MAIN TO METER.

WHERE: $A = \frac{B - (C + D + E)}{F} \times 100$

3) 2 IN SIZE OF WATER METER.

A. 19.0 PERMISSIBLE PRESSURE LOSS FOR FRICTION. (PSI/100' OF PIPE).

B. 80.0 PSI AVAILABLE PRESSURE AFTER WATER METER (AT PRESSURE REDUCING VALVE)

C. 8 PSI PRESSURE NEEDED AT CONTROLLING FIXTURE.

D. 0 PSI DIFFERENCE IN ELEVATION BETWEEN WATER METER (PRESSURE REDUCING VALVE) AND CONTROLLING FIXTURE IN FEET 0 x .434 PSI/FT.

E. 15 PSI PRESSURE LOSS DUE TO WATER HEATER, FUTURE WATER TREATMENT DEVICES AND BACKFLOW PREVENTERS.

F. 300 FT DEVELOPED LENGTH FROM WATER METER (PRESSURE REDUCING VALVE) TO CONTROLLING FIXTURE IN FEET 200 x 1.25.

COLD WATER DISTRIBUTION SIZING:

PERMISSABLE UNIFORM PRESSURE LOSS FOR FRICTION (A);
(P.S.I./100' OF PIPE)

WHERE: $A = \frac{B - (C + D + E)}{F} \times 100$

A. 20.0 PERMISSIBLE PRESSURE LOSS FOR FRICTION. (PSI/100' OF PIPE).

B. 80.0 PSI AVAILABLE PRESSURE AFTER WATER METER (AT PRESSURE REDUCING VALVE)

C. 20 PSI PRESSURE NEEDED AT CONTROLLING FIXTURE.

D. 0 PSI DIFFERENCE IN ELEVATION BETWEEN WATER METER (PRESSURE REDUCING VALVE) AND CONTROLLING FIXTURE IN FEET 0 x .434 PSI/FT.

E. 0 PSI PRESSURE LOSS DUE TO WATER HEATER, WATER TREATMENT DEVICES AND BACKFLOW PREVENTERS.

F. 300 FT DEVELOPED LENGTH FROM WATER METER (PRESSURE REDUCING VALVE) TO CONTROLLING FIXTURE IN FEET 200 x 1.25.

DESTREE architecture & design
222 West Washington Ave, Suite 310, Madison, WI 53703
ph: 608.268.1499 fax: 608.268.1498 www.destreearchitects.com

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(mp)² STRUCTURAL ENGINEERS, LLC
583 D'onofrio Drive, Suite 201
Madison, WI 53711
Office: 608-821-4776
Fax: 608-821-4780

HEIN Engineering Group
319 W. Beltline Hwy, Suite 111
Madison, WI 53713
Phone: (608) 288-9260
email: hein@chorus.net
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DIMENSION IV
Madison Design Group
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6515 Grand Teton Plaza, Suite 120, Madison, Wisconsin 53719
p608.829.4444 f608.829.4445 dimensionivmadison.com

CITY OF MADISON
DEPARTMENT OF PUBLIC WORKS
CITY ENGINEERING DIVISION
CITY-COUNTY BUILDING, ROOM 115
210 MARTIN LUTHER KING JR BLVD
MADSION, WI 53703

OLBRICH BOTANICAL GARDENS ROOF REPLACEMENT

3300 ATWOOD AVENUE
MADISON, WI

CITY OF MADISON CONTRACT # 6828

Architecture: **Dimension IV Madison Design Group**
6515 Grand Teton Plaza, Suite 120, Madison WI 53719
p608.829.4444 www.dimensionivmadison.com

Structural Engineering: **OTIE**
5100 Eastpak Blvd., Suite 200 Madison, WI 53718
p608.241.6717 www.otie.com

Landscape Architect: **Thomas Dunbar, FASLA**
2628 Blue Aster Blvd. Sun Prairie, WI 53590
p608.381.0828 dunbar.tom@gmail.com

LIST OF DRAWINGS

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G0.2 PROJECT INFORMATION

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C1.0 TEMPORARY FACILITIES AND CONTROL SITE PLAN

LANDSCAPE
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L2.0 LANDSCAPE DEMOLITION/ CLEARING, GRUBBING & PROTECTION PLAN

STRUCTURAL
S1.0 STRUCTURAL NOTES
S1.1 ROOF PLAN
S1.2 DETAILS

ARCHITECTURAL
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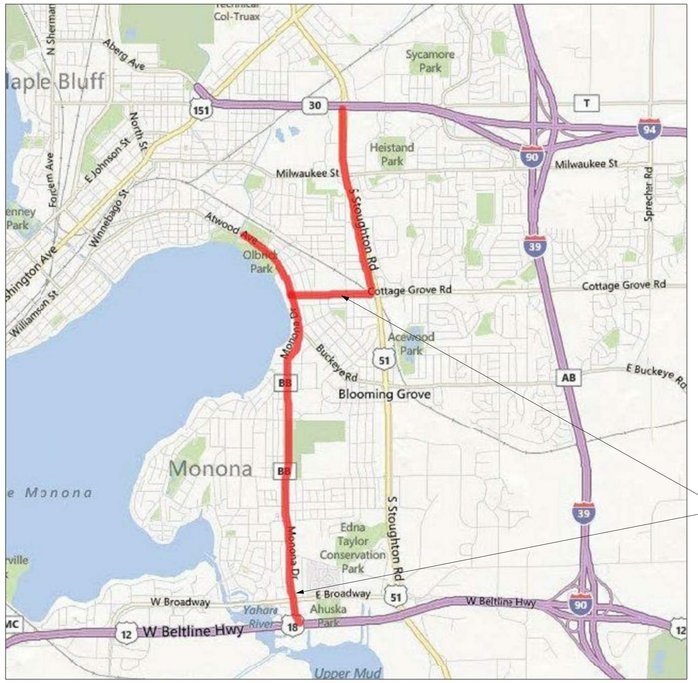
A1.1 FIRST FLOOR PLAN
A1.3 ROOF PLAN
A2.0 EXTERIOR ELEVATIONS
A3.0 ROOF SECTIONS & DETAILS
A3.1 ROOF SECTIONS & DETAILS
A3.2 ROOF SECTIONS & DETAILS
A8.0 DETAILS
A8.1 DETAILS

BID SET

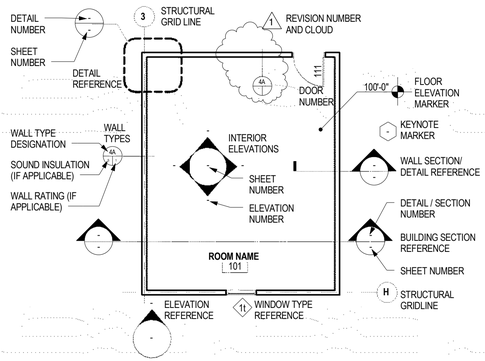
PROJECT # 12017

12/11/2012

G0.1

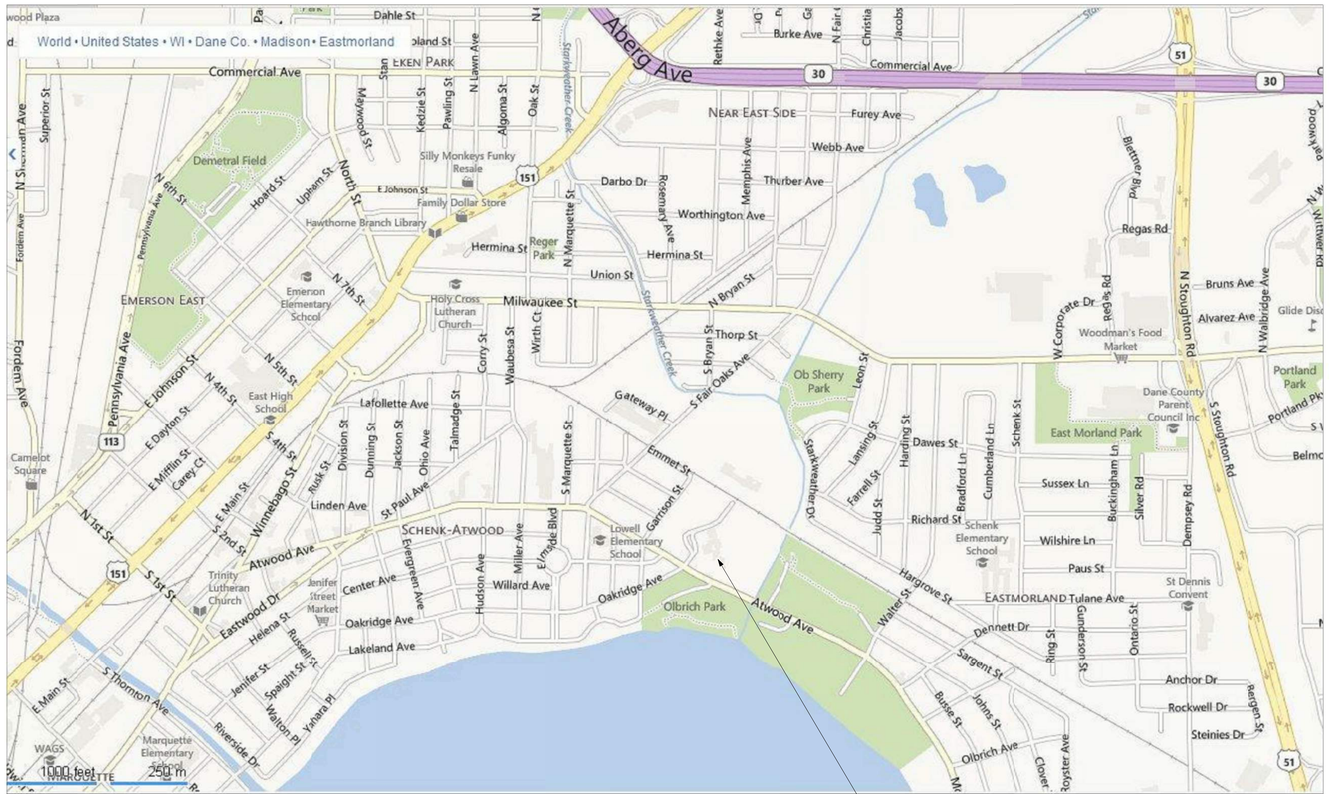


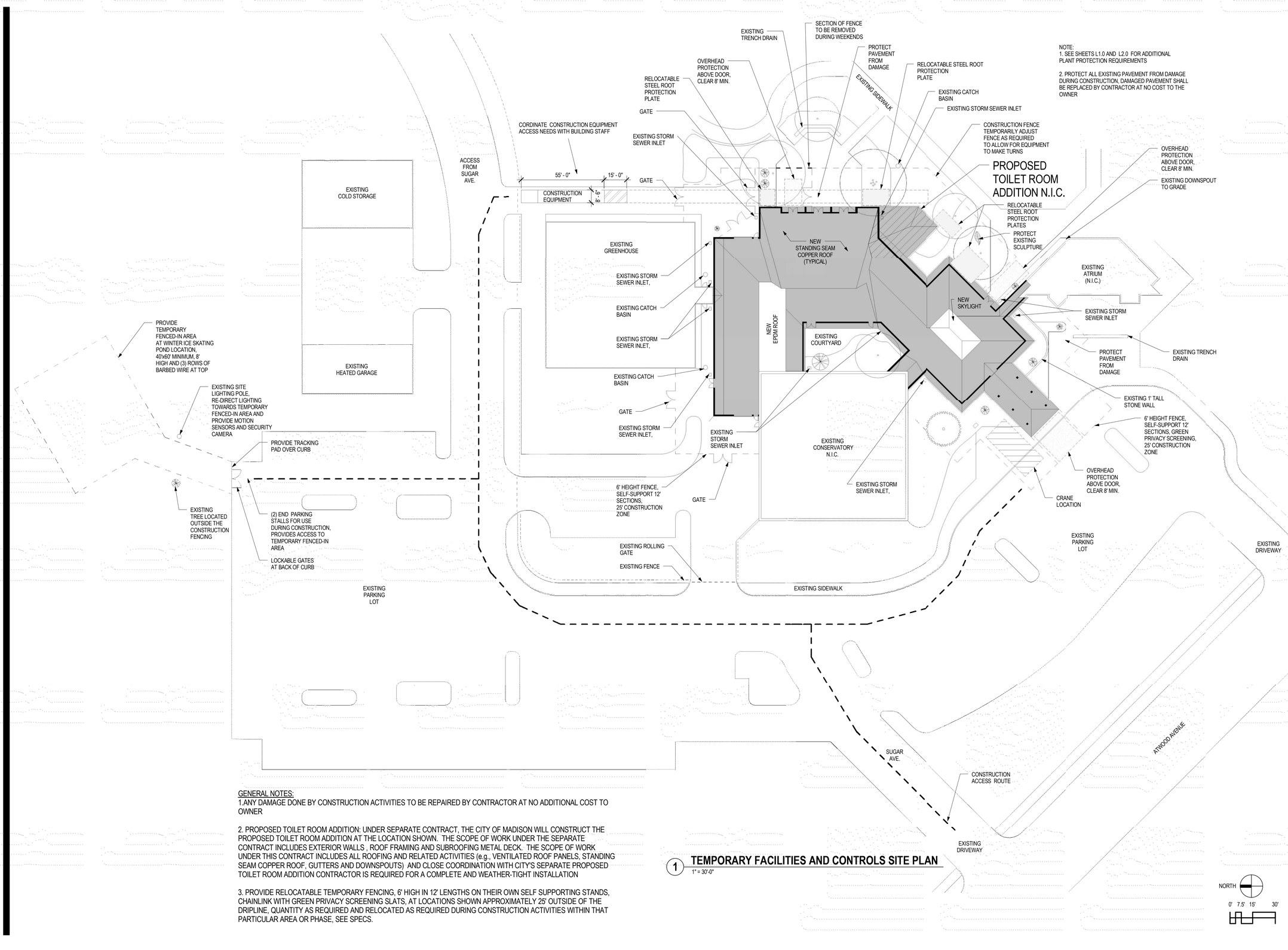
TRUCK ROUTES



ARCHITECTURAL ABBREVIATIONS LEGEND

+ - AND	FIN - FINISH	PREFAB - PREFABRICATED
@ - AT	FLR - FLOOR	PERIM - PERIMETER
AB - ANCHOR BOLT	FND - FOUNDATION	PC - PLUMBING CONTRACTOR
AFF - ABOVE FINISH FLOOR	FOM - FACE OF MASONRY	P/C - PRECAST / PRESTRESSED
ALT - ALTERNATE	FOS - FACE OF STUD	P/T - POST TENSIONED
ALUM - ALUMINUM	FTG - FOOTING	PT - PRESSURE TREATED
ARCH - ARCHITECT / ARCHITECTURAL	FUT - FUTURE	
	FV - FIELD VERIFY	R - RADIUS
BRD - BOARD		RD - ROOF DRAIN
BLK - BLOCK (CMU)	GA - GAUGE	REINF - REINFORCING
BOT - BOTTOM	GALV - GALVANIZED	REQD - REQUIRED
	GB - GRAB BAR	RM - ROOM
CB - CATCH BASIN	GC - GENERAL CONTRACTOR	
CIP - CAST-IN-PLACE	GYP - GYPSUM	SCHED - SCHEDULE
CJ - CONSTRUCTION JOINT		SHT - SHEET
CL - CENTERLINE	HC - HVAC CONTRACTOR	SIM - SIMILAR
CLG - CEILING	HM - HOLLOW METAL	SOG - SLAB ON GRADE
CLJ - CONTROL JOINT	HORIZ - HORIZONTAL	SPEC - SPECIFICATION
CLR - CLEAR DISTANCE	HT - HEIGHT	SQ - SQUARE
CMU - CONCRETE MASONRY UNIT	HVAC - HEATING, VENTILATION & AIR CONDITIONING	SS - STAINLESS STEEL
CO - CASED OPENING	HR - HOUR	STL - STEEL
COL - COLUMN		STR - STRUCTURAL
CONC - CONCRETE	ID - INSIDE DIAMETER	
CONT - CONTINUOUS	I.F. - INSIDE FACE	THK - THICKNESS
CU - CUBIC	INSUL - INSULATION	TOL - TOP OF LEDGE ELEVATION
	INT - INTERIOR	TOP - TOP OF PIER ELEVATION
DBL - DOUBLE		TP - TOILET PAPER DISPENSER
DF - DRINKING FOUNTAIN	JBE - JOIST BEARING ELEVATION	TS - (SEE HIGH STRENGTH STEEL DESIGNATION)
DIM - DIAMETER	JT - JOINT	TYP - TYPICAL
DN - DOWN		TOW - TOP OF WALL ELEVATION
DS - DOWN SPOUT	L - STEEL ANGLE DESIGNATION	
DTL - DETAIL	LAM - LAMINATE	UL - UNDERWRITERS LAB
DWG - DRAWING	LVL - LAMINATED VENEER LUMBER	UNO - UNLESS NOTED OTHERWISE
EA - EACH	MAX - MAXIMUM	VB - VAPOR BARRIER
EC - ELECTRICAL CONTRACTOR	MBW - MASONRY BEARING WALL	VERT - VERTICAL
EIFS - EXTERIOR INSULATION FINISH SYSTEM	MFG - MANUFACTURER	VIF - VERIFY IN FIELD
EL - ELEVATION	MIN - MINIMUM	
ELEV - ELEVATOR	MO - MASONRY OPENING	W - WIDTH
ENG - ENGINEER	MTL - METAL	W/ - WITH
EQ - EQUAL		W/O - WITHOUT
EXIST - EXISTING	NIC - NOT IN CONTRACT	WC - WATER CLOSET
EXP - EXPANSION	NOM - NOMINAL	WD - WOOD
EXT - EXTERIOR	NTS - NOT TO SCALE	WRB - WEATHER RESISTANT BARRIER
	NO - NUMBER	WWF - WELDED WIRE FABRIC
FD - FLOOR DRAIN		
FND - FOUNDATION	OC - ON CENTER	
FE - FIRE EXTINGUISHER	OD - OUTSIDE DIAMETER	
FEC - FIRE EXTINGUISHER CABINET	O.F. - OUTSIDE FACE	
FF - FINISH FLOOR	OH - OVERHEAD	
	OPCI - OWNER PROVIDED, CONTRACTOR INSTALLED	
	OPOI - OWNER PROVIDED, OWNER INSTALLED	
	OPNG - OPENING	
	OPP - OPPOSITE	


World • United States • WI • Dane Co. • Madison • Eastmorland
Aberg Ave
Commercial Ave
Dahle St
Burke Ave
NEAR EAST SIDE
Furey Ave
Webb Ave
Thurber Ave
Worthington Ave
Darbo Dr
Hermina St
Union St
Milwaukee St
EMERSON EAST
Demetral Field
Emerson Elementary School
Holy Cross Lutheran Church
Reger Park
Hawthorne Branch Library
Silly Monkeys Funky Resale
Family Dollar Store
East High School
Lafollette Ave
Gateway Pl
Emmet St
SCHENK-ATWOOD
Lowell Elementary School
Trinity Lutheran Church
Jenifer Street Market
Olbrich Park
Atwood Ave
Oakridge Ave
Lakeland Ave
Eastwood Dr
Willard Ave
Center Ave
Ob Sherry Park
East Morland Park
Schenk Elementary School
EASTMORLAND
Tulane Ave
Dane County Parent Council Inc
Woodman's Food Market
St Dennis Convent
Regas Rd
Bruns Ave
Alvarez Ave
Wilshire Ln
Sussex Ln
Richard St
Dawes St
Paus St
Dennett Dr
Sargent St
Anchor Dr
Rockwell Dr
Steinies Dr
Olbrich Ave
Portland Park
Camelot Square
WAGS
Marquette Elementary
1000 feet
250 m
Stoughton Rd
Pennsylvania Ave
Fordem Ave
Superior St
Rethke Ave
Starkweather Creek
Memphis Ave
Rosemary Ave
Bliettner Blvd
Regas Rd
Bryan St
Thorp St
Corry St
Waubesa St
Wirth Ct
Marquette St
Jackson St
Dunning St
Division St
Rusk St
Ohio Ave
Talmadge St
Harding St
Lansing St
Farrell St
Judd St
Bradford Ln
Cumberland Ln
Schenk St
Buckingham Ln
Silver Rd
Dempsey Rd
Hargrove St
Walter St
Gunderson St
Ontario St
Ring St
Johns St
Busse St
Royster Ave
Bergen St
Glide Disc
Portland Pk
Belmo
Hudson Ave
Miller Ave
Everglen Ave
Garrison St
Oak St
Algoma St
Kedzie St
Pawling St
N Lawn Ave
Keyes Ave
Rethke Ave
Christia
Jacobs
Parkwood
Thorp St
Ob Sherry Park
Leon St
Starkweather Creek
Yahara Pl
Walton Pl
Spaight St
Russell Ct
Jenifer St
Helena St
Riverside Dr
Thornton Ave
E Main St
Carey Ct
E Mifflin St
E Dayton St
E Johnson St
N 4th St
S 4th St
N 5th St
N 7th St
N 8th St
Howard St
Upham St
North St
Winnebago St
S 2nd St
N 1st St
S 1st St
Pennsylvania Ave
Forest Ave
Fordem Ave
Superior St
N Sherman Ave
Abbey Rd
Glenway St
Mayfield Rd
Stanley St
Algoma St
Oak St
N Lawn Ave
Pawling St
Kedzie St
Keyes Ave
Rethke Ave
Bur



NOTE:
1. SEE SHEETS L1.0 AND L2.0 FOR ADDITIONAL PLANT PROTECTION REQUIREMENTS

2. PROTECT ALL EXISTING PAVEMENT FROM DAMAGE DURING CONSTRUCTION. DAMAGED PAVEMENT SHALL BE REPLACED BY CONTRACTOR AT NO COST TO THE OWNER

GENERAL NOTES:
1.ANY DAMAGE DONE BY CONSTRUCTION ACTIVITIES TO BE REPAIRED BY CONTRACTOR AT NO ADDITIONAL COST TO OWNER

2. PROPOSED TOILET ROOM ADDITION: UNDER SEPARATE CONTRACT, THE CITY OF MADISON WILL CONSTRUCT THE PROPOSED TOILET ROOM ADDITION AT THE LOCATION SHOWN. THE SCOPE OF WORK UNDER THE SEPARATE CONTRACT INCLUDES EXTERIOR WALLS , ROOF FRAMING AND SUBROOFING METAL DECK. THE SCOPE OF WORK UNDER THIS CONTRACT INCLUDES ALL ROOFING AND RELATED ACTIVITIES (e.g., VENTILATED ROOF PANELS, STANDING SEAM COPPER ROOF, GUTTERS AND DOWNSPOUTS) AND CLOSE COORDINATION WITH CITY'S SEPARATE PROPOSED TOILET ROOM ADDITION CONTRACTOR IS REQUIRED FOR A COMPLETE AND WEATHER-TIGHT INSTALLATION

3. PROVIDE RELOCATABLE TEMPORARY FENCING, 6' HIGH IN 12' LENGTHS ON THEIR OWN SELF SUPPORTING STANDS, CHAINLINK WITH GREEN PRIVACY SCREENING SLATS, AT LOCATIONS SHOWN APPROXIMATELY 25' OUTSIDE OF THE DRIPLINE, QUANTITY AS REQUIRED AND RELOCATED AS REQUIRED DURING CONSTRUCTION ACTIVITIES WITHIN THAT PARTICULAR AREA OR PHASE, SEE SPECS.

1 TEMPORARY FACILITIES AND CONTROLS SITE PLAN
1" = 30'-0"

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CITY OF MADISON
DEPARTMENT OF PUBLIC WORKS
CITY ENGINEERING DIVISION

CITY-COUNTY BUILDING, ROOM 115
210 MARTIN LUTHER KING JR BLVD
MADSION, WI 53703

OLBRICH BOTANICAL GARDENS ROOF REPLACEMENT

3300 ATWOOD AVENUE
MADISON, WI

DATE OF ISSUE: 12/11/2012

PROJECT # 12017

TEMPORARY FACILITIES AND CONTROL SITE PLAN

C1.0

PHOTO A

PHOTO B

PHOTO C

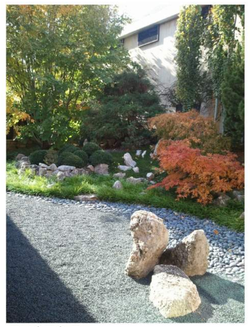
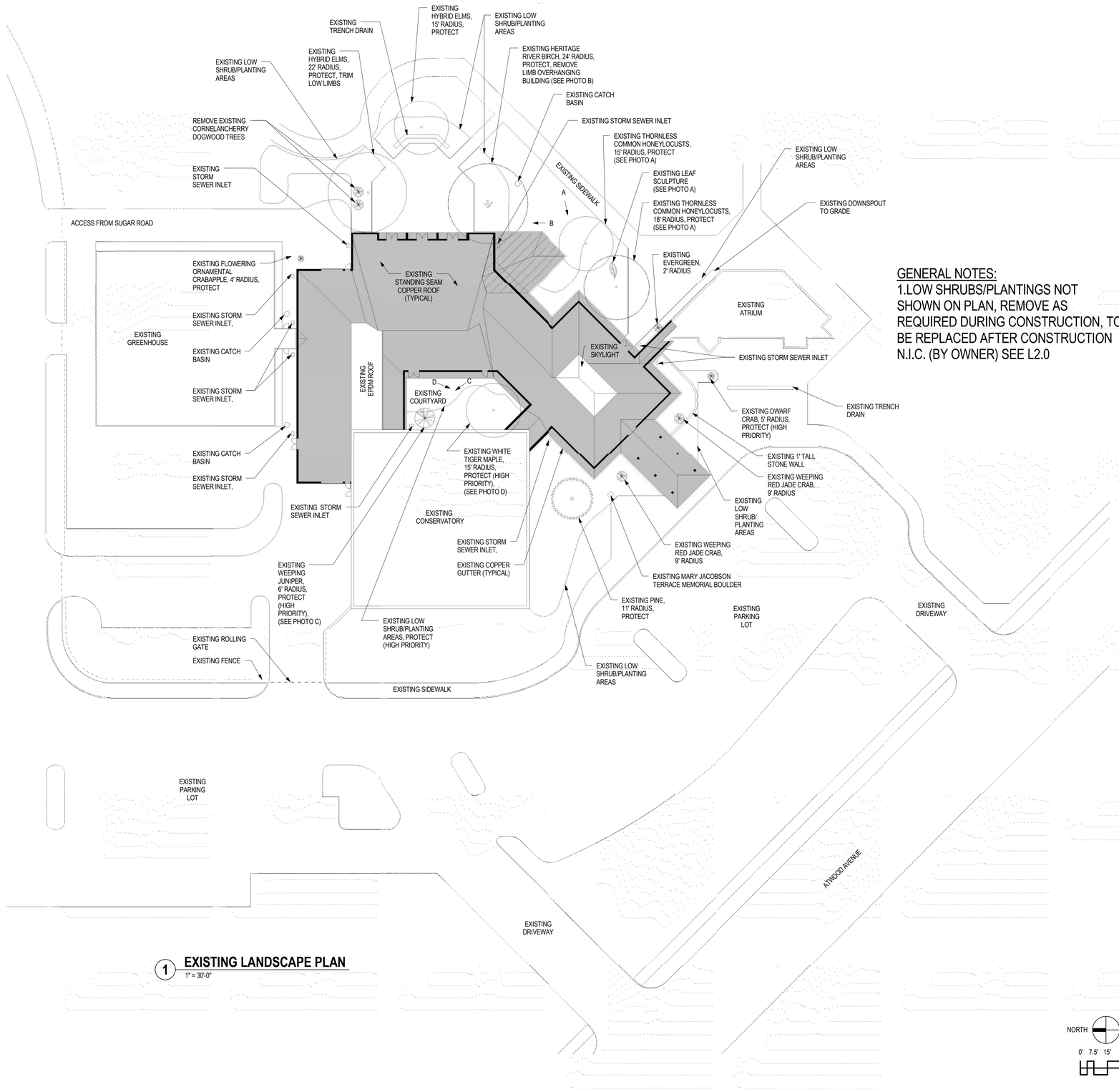


PHOTO D



1 **EXISTING LANDSCAPE PLAN**
1" = 30'-0"

GENERAL NOTES:
1.LOW SHRUBS/PLANTINGS NOT SHOWN ON PLAN, REMOVE AS REQUIRED DURING CONSTRUCTION, TO BE REPLACED AFTER CONSTRUCTION N.I.C. (BY OWNER) SEE L2.0

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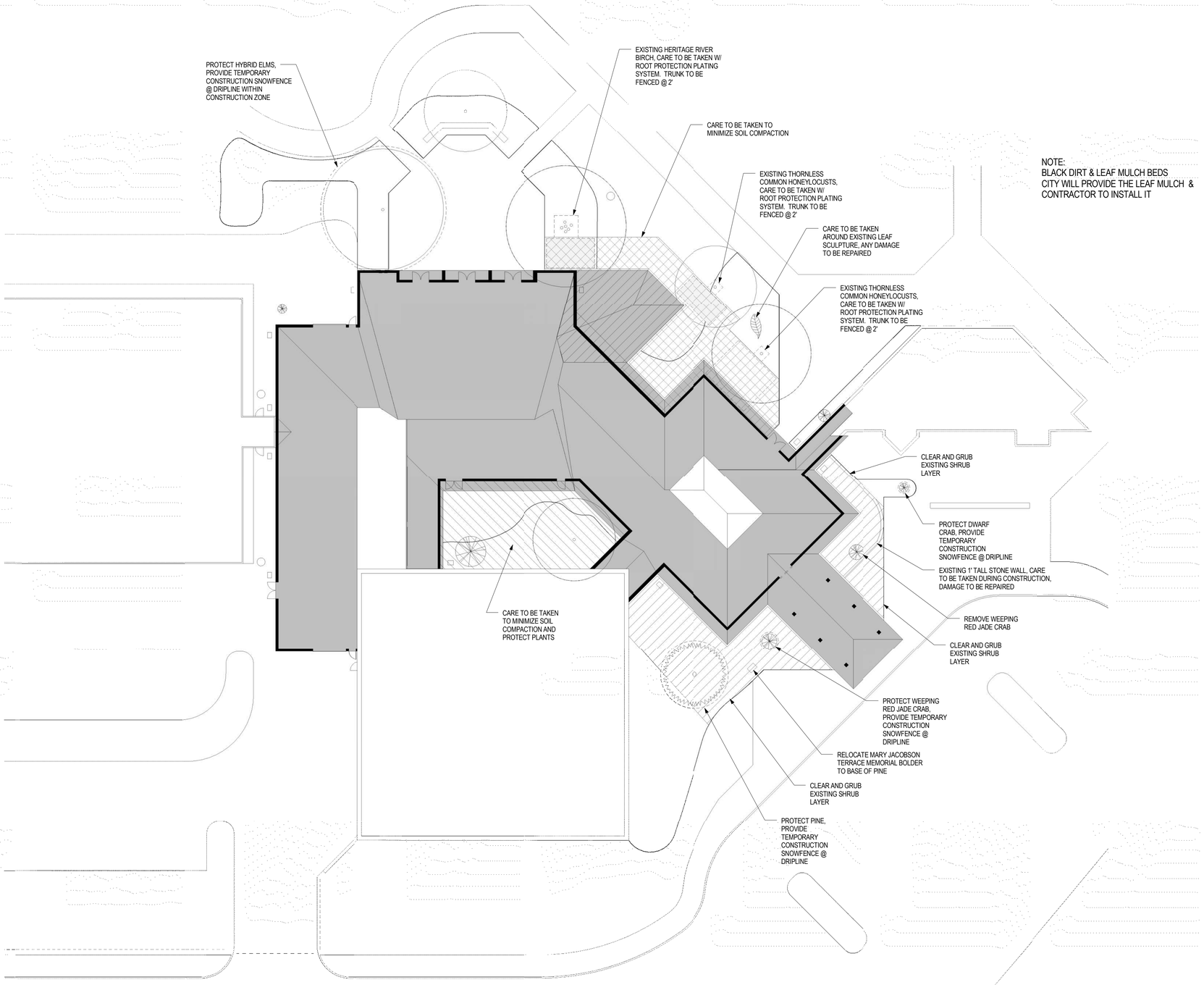
EXISTING LANDSCAPE PLAN

NORTH
0' 7.5' 15' 30'

L1.0



NOTE:
BLACK DIRT & LEAF MULCH BEDS
CITY WILL PROVIDE THE LEAF MULCH &
CONTRACTOR TO INSTALL IT

1 LANDSCAPE DEMOLITION/CLEARING, GRUBBING AND PROTECTION
1" = 20'-0"

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LANDSCAPE DEMOLITION/ CLEARING, GRUBBING & PROTECTION PLAN

L2.0

NORTH
0' 5' 10' 20'

STRUCTURAL DESIGN CRITERIA

1) THESE NOTES SUPPLEMENT THE SPECIFICATIONS. PROJECT SPECIFICATIONS SHALL BE REFERRED TO FOR CLARIFICATIONS AND ADDITIONAL INFORMATION. IN CASE OF CONFLICT BETWEEN PROJECT SPECIFICATIONS AND THESE NOTES, THESE NOTES SHALL GOVERN.

2) GOVERNING BUILDING CODE: 2009 IBC AS AMENDED BY THE STATE OF WISCONSIN.

3) DESIGN LOADS

ROOF
- LIVE LOAD
  - SNOW — 30 PSF + DRIFTING
- SUPERIMPOSED DEAD LOAD
  - TOP CHORD — 10 PSF
  - BOTTOM CHORD — 10 PSF

SNOW LOADS
- GROUND SNOW (P_g) — 30 PSF
- SNOW LOAD IMPORTANCE FACTOR (I_s) — 1.0
- SNOW LOAD EXPOSURE FACTOR (C_e) — 1.0
- ROOF THERMAL LOAD FACTOR (C_t) AT BUILDING — 1.1
- BASE ROOF SNOW LOAD AT BUILDING — 23.1 PSF

WIND LOADS
- BASIC WIND SPEED — 90 MPH
- BUILDING OCCUPANCY CATEGORY — II
- WIND LOAD IMPORTANCE FACTOR (I_w) — 1.0
- WIND EXPOSURE CATEGORY — C
- INTERNAL PRESSURE COEFFICIENT — ± .18

MAIN WINDFORCE-RESISTING SYSTEM:
- MWFRS SELECTED EDGE STRIP DISTANCE, (2a) — 23.2 FT
- CALCULATED HORIZONTAL LOADS

	END ZONE WALL	END ZONE ROOF	INTERIOR ZONE WALL	INTERIOR ZONE ROOF
TRANSVERSE CASE #1:	19.2 psf	-5.6 psf	12.8 psf	-3.1 psf
TRANSVERSE CASE #2:	N/A psf	N/A psf	N/A psf	N/A psf
LONGITUDINAL:	14.3 psf	-7.5 psf	9.5 psf	-4.5 psf

- CALCULATED VERTICAL LOADS

	END ZONE WINDWARD	END ZONE LEEWARD	INTERIOR ZONE WINDWARD	INTERIOR ZONE LEEWARD
TRANSVERSE CASE #1:	-17.2 psf	-11.7 psf	-12.0 psf	-8.9 psf
TRANSVERSE CASE #2:	N/A psf	N/A psf	N/A psf	N/A psf
LONGITUDINAL:	-17.2 psf	-9.9 psf	-12.0 psf	-7.6 psf

COMPONENTS AND CLADDING:
(SEE ASCE/SEI 7-SECTION 6 FOR ZONE DEFINITIONS AND DIAGRAMS)
- COMPONENT AND CLADDING SELECTED EDGE STRIP DISTANCE, (a) — 11.6 FT

TRIBUTARY WIND LOAD AREAS	10 ft²	50 ft²	100 ft²
ROOF (MONOSLOPE):			
ZONE 1 (NEGATIVE)	14.9 psf	14.0 psf	13.6 psf
ZONE 2 (NEGATIVE)	26.0 psf	21.2 psf	19.0 psf
ZONE 3 (NEGATIVE)	38.4 psf	32.6 psf	30.1 psf
WALLS:			
ZONE 4 (NEGATIVE)	17.7 psf	16.0 psf	15.2 psf
ZONE 5 (NEGATIVE)	21.8 psf	18.5 psf	16.9 psf
ZONE 4&5 (POSITIVE)	16.4 psf	14.6 psf	13.9 psf

SEISMIC LOADS
- SEISMIC USE GROUP / OCCUPANCY CATEGORY — II
- SEISMIC IMPORTANCE FACTOR (I_E) — 1.0
- SEISMIC SITE CLASS — D
- SPECTRAL RESPONSE COEFFICIENT (S_{DS}) — 0.128
- SPECTRAL RESPONSE COEFFICIENT (S_{D1}) — 0.08
- SEISMIC DESIGN CATEGORY — B

BASIC SEISMIC FORCE RESISTING SYSTEM:
STRUCTURAL STEEL SYSTEM
NOT DETAILED FOR SEISMIC

R = 3.0 Ω_o = 3.0 C_d = 3.0

ANALYSIS PROCEDURE:
EQUIVALENT LATERAL FORCE PROCEDURE

4) FOUNDATIONS AND EARTHWORK
- ALLOWABLE SOIL BEARING PRESSURE FOR FOOTINGS — 3,000 PSF (FROM ORIGINAL DESIGN)

5) CONCRETE
- MINIMUM 28 DAY COMPRESSIVE STRENGTH (f'C)
  - FOOTINGS — 3,000 PSI
  - PIERS, WALLS — 4,000 PSI
  - SLAB-ON GRADE (INTERIOR) — 3,500 PSI
  - SLAB-ON-GRADE (EXTERIOR) — 4,500 PSI

COVER ON MILD STEEL REINFORCEMENT
- CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH — 3"
- CONCRETE EXPOSED TO EARTH OR WEATHER
  - #5 BARS AND SMALLER — 1 1/2"
  - #6 BARS AND LARGER — 2"
- CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND — 1"

CONCRETE REINFORCEMENT YIELD STRENGTH (Fy)
- ALL DEFORMED MILD STEEL — 60,000 PSI
- WELDED WIRE FABRIC — 65,000 PSI

6) CONCRETE MASONRY
- DESIGN STRESSES
  - MASONRY (NORMAL WEIGHT) MEETING ASTM C90 — f'm = 2250 PSI
  - GROUT: MIN COMPRESSIVE STRENGTH AT 28 DAYS MEETING ASTM C476 — 3000 PSI

7) STRUCTURAL STEEL
- STRUCTURAL STEEL YIELD STRENGTH (FY)
  - TUBES — 46,000 PSI
  - WF BEAMS — 50,000 PSI
  - WF COLUMNS — 50,000 PSI
- BOLTS FOR STANDARD FRAME CONNECTIONS — 3/4" DIAMETER A325
- BOLTS FOR SINGLE SHEAR TAB CONNECTIONS — 3/4" DIAMETER A325
- ANCHOR RODS — F1554
- WELDING ELECTRODES — E70

8) MISCELLANEOUS

VERIFY OPENINGS THROUGH FLOOR AND WALLS WITH ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL REQUIREMENTS. CHANGES IN SIZE, LOCATION OR NUMBER OF OPENINGS SHOWN ON THE STRUCTURAL DRAWINGS SHALL NOT BE PERMITTED WITHOUT WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER. NOT ALL OPENINGS ARE SHOWN ON THE STRUCTURAL DRAWINGS.

GENERAL NOTES

1. STRUCTURAL DRAWINGS ARE INTENDED TO BE USED WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR COORDINATING SUCH REQUIREMENTS INTO THE SHOP DRAWINGS AND WORK.

2. NO OPENING SHALL BE MADE IN ANY STRUCTURAL BEAM, COLUMN, SUPPORT FLOOR, LOAD BEARING WALL, FOOTING, OR FOUNDATION WALL WITHOUT THE WRITTEN APPROVAL OF THE ARCHITECT/ ENGINEER. OPENINGS IN NON-LOAD BEARING WALLS REQUIRE THE ARCHITECT'S APPROVAL.

3. THE CONTRACTOR IS RESPONSIBLE FOR LIMITING THE AMOUNT OF CONSTRUCTION LOAD IMPOSED UPON NEW STRUCTURAL FRAMING. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN CAPACITY OF THE FRAMING AT THE TIME THE LOADS ARE IMPOSED.

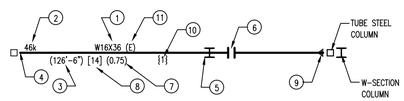
4. THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION. THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL TEMPORARY BRACING AND/OR SUPPORT THAT MAY BE REQUIRED AS THE RESULT OF THE CONTRACTOR'S CONSTRUCTION METHODS AND/OR SEQUENCES. THE STRUCTURAL ENGINEER ASSUMES NO LIABILITY FOR THE STRUCTURE DURING CONSTRUCTION.

5. FIREPROOFING METHODS AND MATERIALS FOR STRUCTURAL DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR RATING REQUIREMENTS, FIREPROOFING METHODS AND MATERIALS.

6. ALL SECTIONS, DETAIL AND NOTES SHOWN ON THE STRUCTURAL DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL APPLY TO SIMILAR SITUATIONS ELSEWHERE UNLESS OTHERWISE NOTED.

7. WHEN CONFLICTS ARE NOTED ON THE DRAWINGS, THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE A/E FOR RESOLUTION PRIOR TO FABRICATION OR INSTALLATION.

STEEL BEAM NOMENCLATURE



1. INDICATES BEAM SIZE
2. INDICATES CONNECTION DESIGNED BY FABRICATOR TO DELIVER 46K VERTICAL LOAD TO CL. OF COL. OR CONNECTING MEMBERS
3. INDICATES T/ STEEL EL = 126'-6"
4. INDICATES BEAM FRAMING INTO FACE OF COLUMN
5. INDICATES BEAM CONTINUOUS OVER COLUMN
6. INDICATES TYPICAL BEAM SHEAR SPLICE
7. INDICATES REQUIRED UPWARD CAMBER IN BEAM (INCHES)
8. INDICATES NUMBER OF 3/4" X 5" SHEAR STUDS FULLY WELDED TO TOP OF BEAM PER SPAN
9. INDICATES MOMENT CONNECTION
10. INDICATES TYPE OF STUD CONFIGURATION. SEE DETAIL
11. INDICATES THE BEAM IS EXISTING

ABBREVIATIONS

T/ PIER	TOP OF PIER
T/ FTG	TOP OF FOOTING
T/ WALL	TOP OF WALL
T/ LEDGE	TOP OF LEDGE
T/ CONC	TOP OF CONCRETE
T/ STEEL	TOP OF STEEL, TOP OF SLAB
FND	FOUNDATION
FX	FOOTING CALL-OUT
BPXX	BASE PLATE CALL-OUT
PX	PIER CALL-OUT
CJ	CONTROL JOINTS
T/ SLAB	TOP OF SLAB
EL	ELEVATION
T/ PC	TOP OF PRECAST
WWF	WELDED WIRE FABRIC
JBE	JOIST BEARING ELEVATION
T/ DECK	TOP OF (METAL) DECK
T/ CAISSON	TOP OF CAISSON
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE

NOTE:
INFORMATION PERTAINING TO EXISTING CONDITIONS GIVEN ON THESE STRUCTURAL DRAWINGS REPRESENTS TO THE BEST OF OUR KNOWLEDGE THE ACTUAL EXISTING FIELD CONDITIONS. OTIE MAKES NO WARRANTY AS TO THEIR ACCURACY. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS IMPERATIVE TO THE NEW WORK. REPORT DISCREPANCIES BETWEEN THE DRAWINGS AND FIELD CONDITIONS TO THE A/E FOR REVIEW. ANY WORK PERFORMED PRIOR TO RESOLUTION OF DISCREPANCIES BY THE A/E IS SUBJECT TO REMOVAL AND REPLACEMENT AT NO ADDITIONAL COST TO THE CONTRACT.

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3300 ATWOOD AVENUE
MADISON, WI

OTIE
Oneida Total Integrated Enterprises

5100 Eastpark Blvd, Suite 200
Madison, Wisconsin 53718
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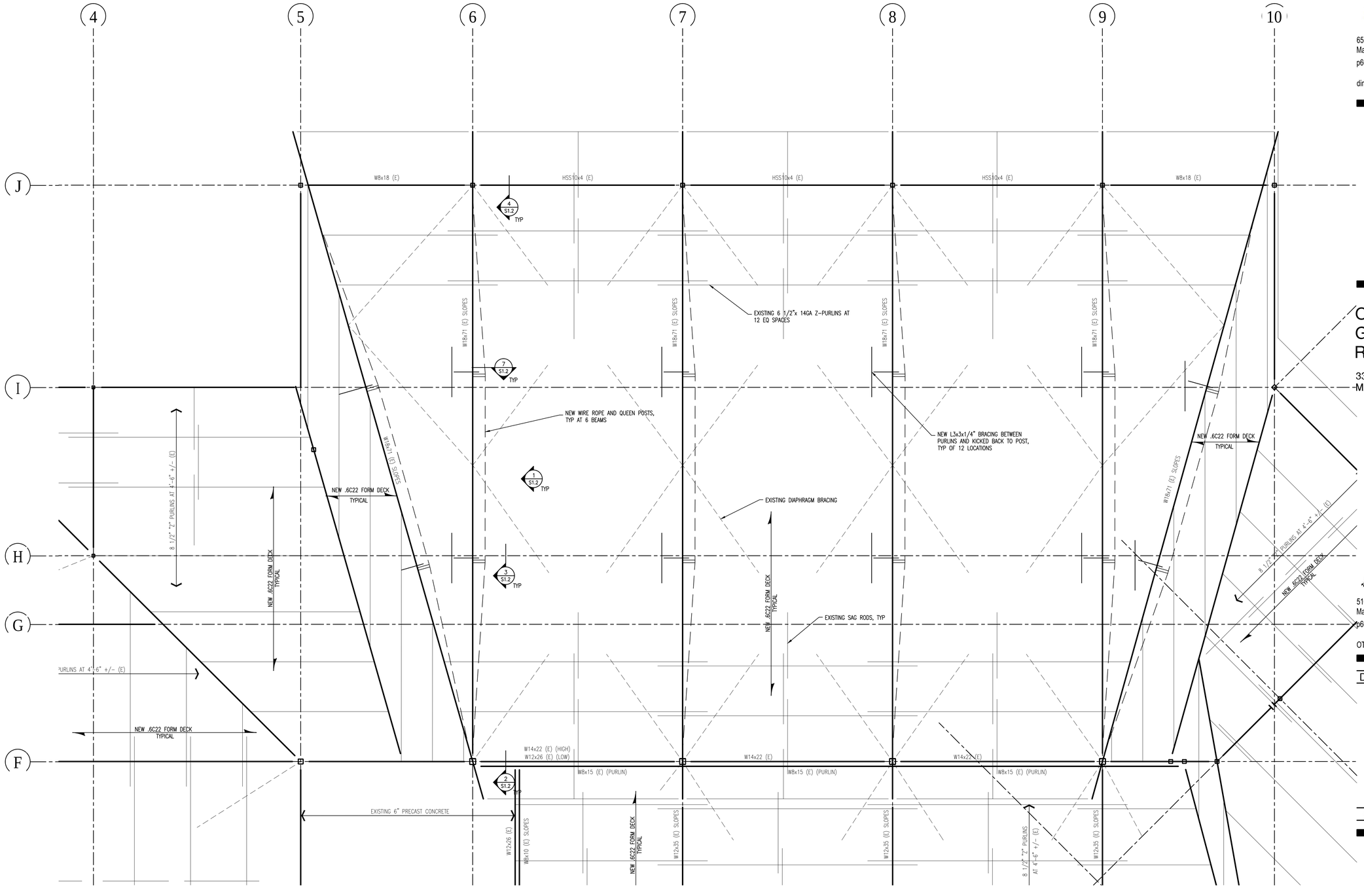
OTIE PROJECT # 2012080

STRUCTURAL DESIGN CRITERIA

S1.0



1 S1.1 ROOF FRAMING PLAN OVER THE COMMONS

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

NORTH

0' 2.5' 5' 10'

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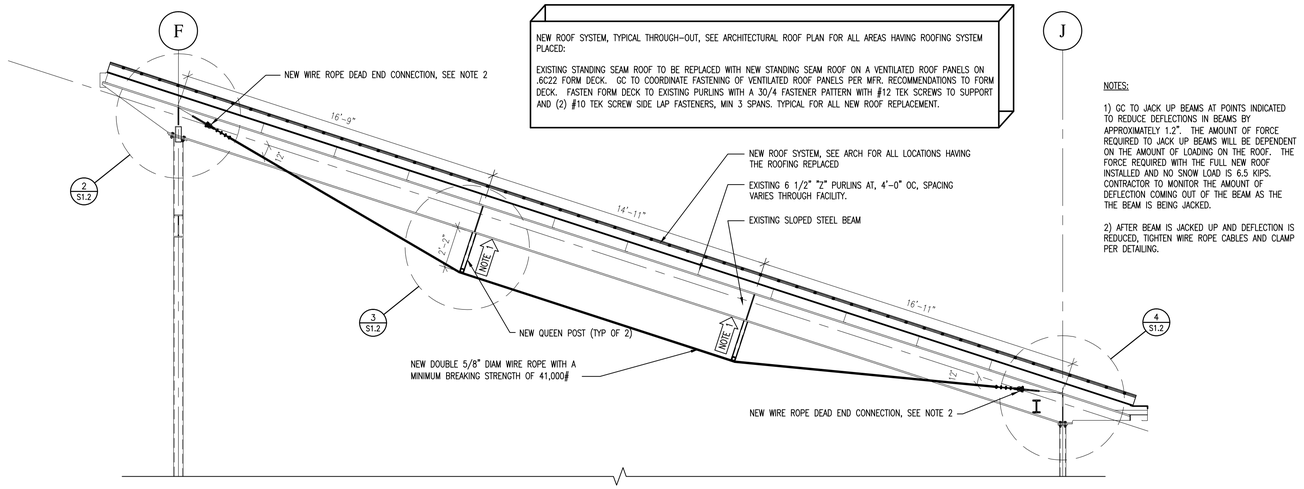
ROOF PLAN

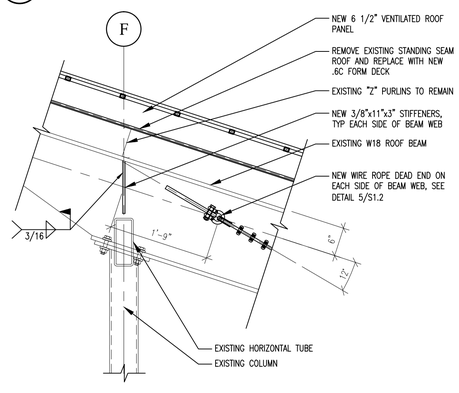
S1.1



1 S1.2 SECTION THRU THE COMMONS

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

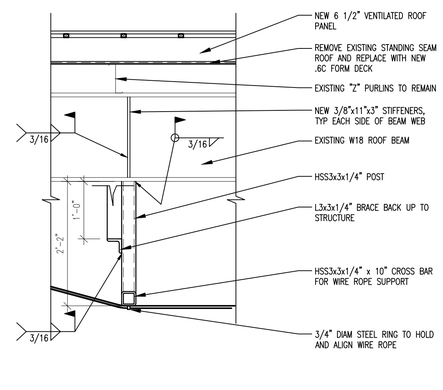
SDETAIL 001 (16)



2 S1.2 WIRE ROPE CONNECTION AT HIGH POINT

SCALE: 3/4"=1'-0"

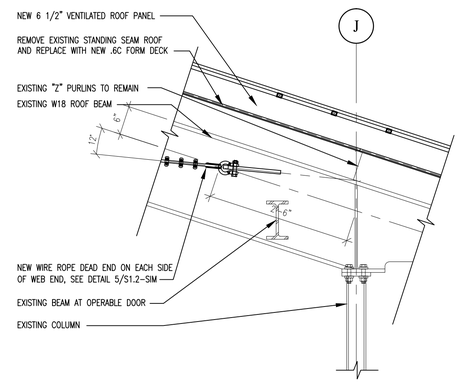
SDETAIL 002 (16)



3 S1.2 WIRE ROPE / POST CONNECTION

SCALE: 3/4"=1'-0"

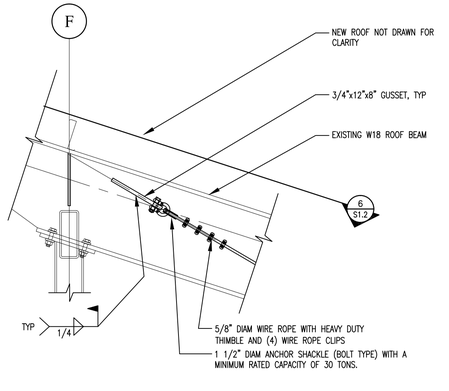
SDETAIL 002 (16)



4 S1.2 WIRE ROPE CONNECTION AT LOW POINT

SCALE: 3/4"=1'-0"

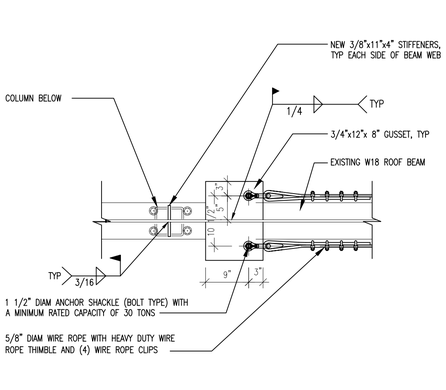
SDETAIL 002 (16)



5 S1.2 WIRE ROPE DEAD END DETAIL

SCALE: 3/4"=1'-0"

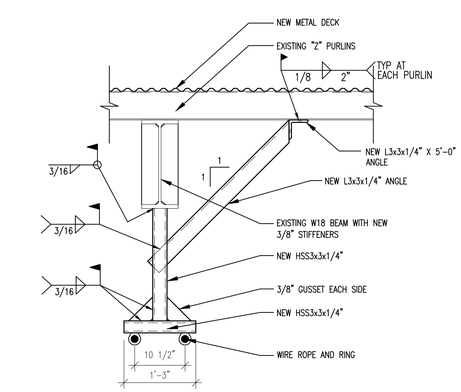
SDETAIL 002 (16)



6 S1.2 PLAN VIEW OF WIRE ROPE DEAD END

SCALE: 3/4"=1'-0"

SDETAIL 002 (16)



7 S1.2 NEW POST DETAIL

SCALE: 3/4"=1'-0"

SDETAIL 002 (16)

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OLBRICH BOTANICAL GARDEN ROOFING REPLACMENT

3300 ATWOOD AVENUE
MADISON, WI

OTIE
Oneida Total Integrated Enterprises

5100 Eastpark Blvd, Suite 200
Madison, Wisconsin 53718
p608.241.6717 f608.241.3914

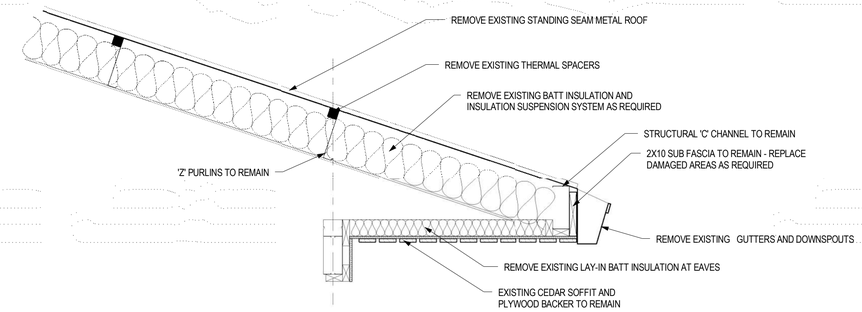
OTIE.com

DATE OF ISSUE: 12/11/2012

OTIE PROJECT # 2012080

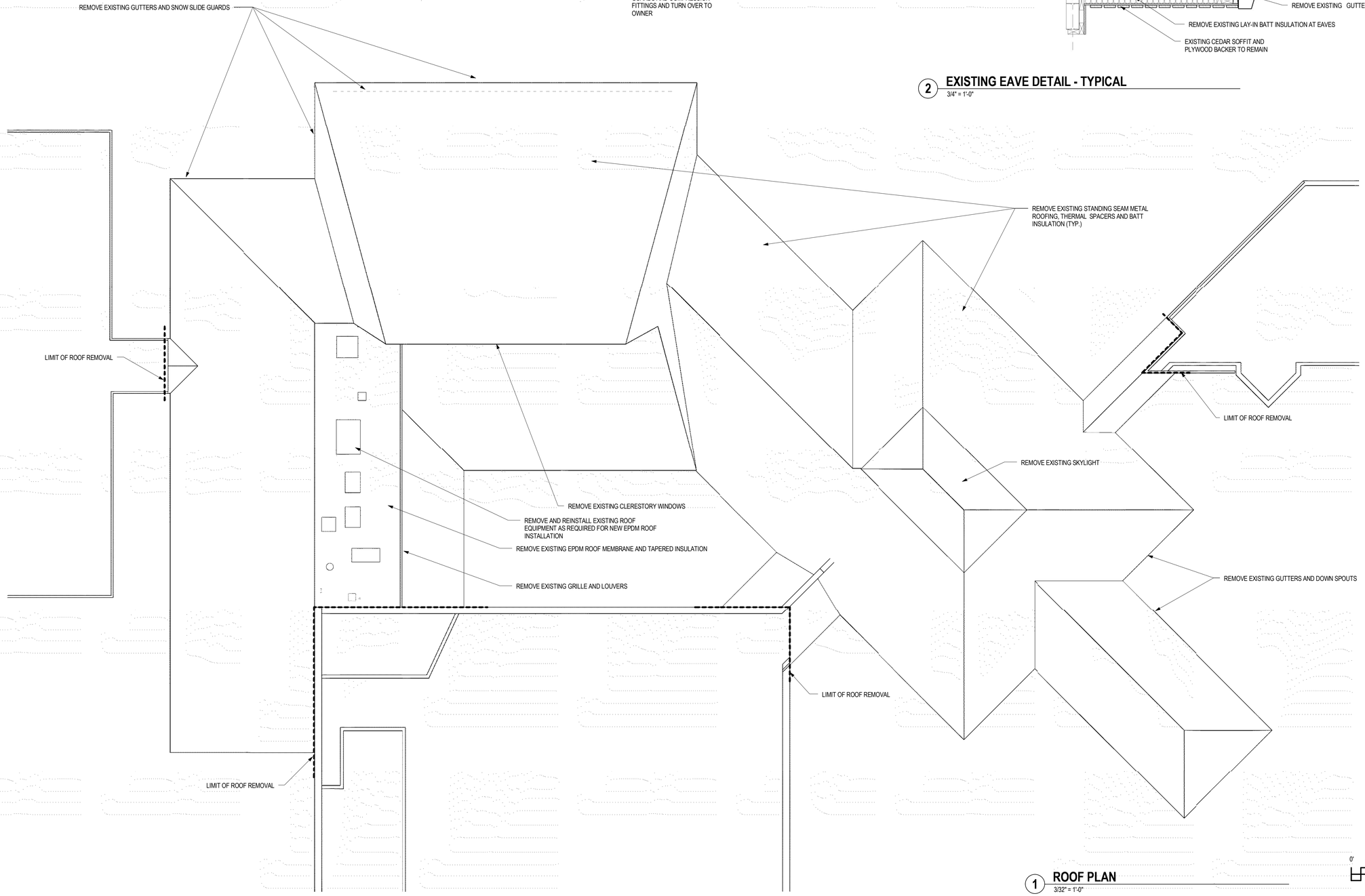
DETAILS

S1.2



2 EXISTING EAVE DETAIL - TYPICAL
3/4" = 1'-0"

NOTE:
SALVAGE EXISTING SNOW SLIDE GUARDS AND COMPRESSION FITTINGS AND TURN OVER TO OWNER



1 ROOF PLAN
3/32" = 1'-0"

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CITY-COUNTY BUILDING, ROOM 115
210 MARTIN LUTHER KING JR BLVD
MADSION, WI 53703

OLBRICH BOTANICAL GARDENS ROOF REPLACEMENT

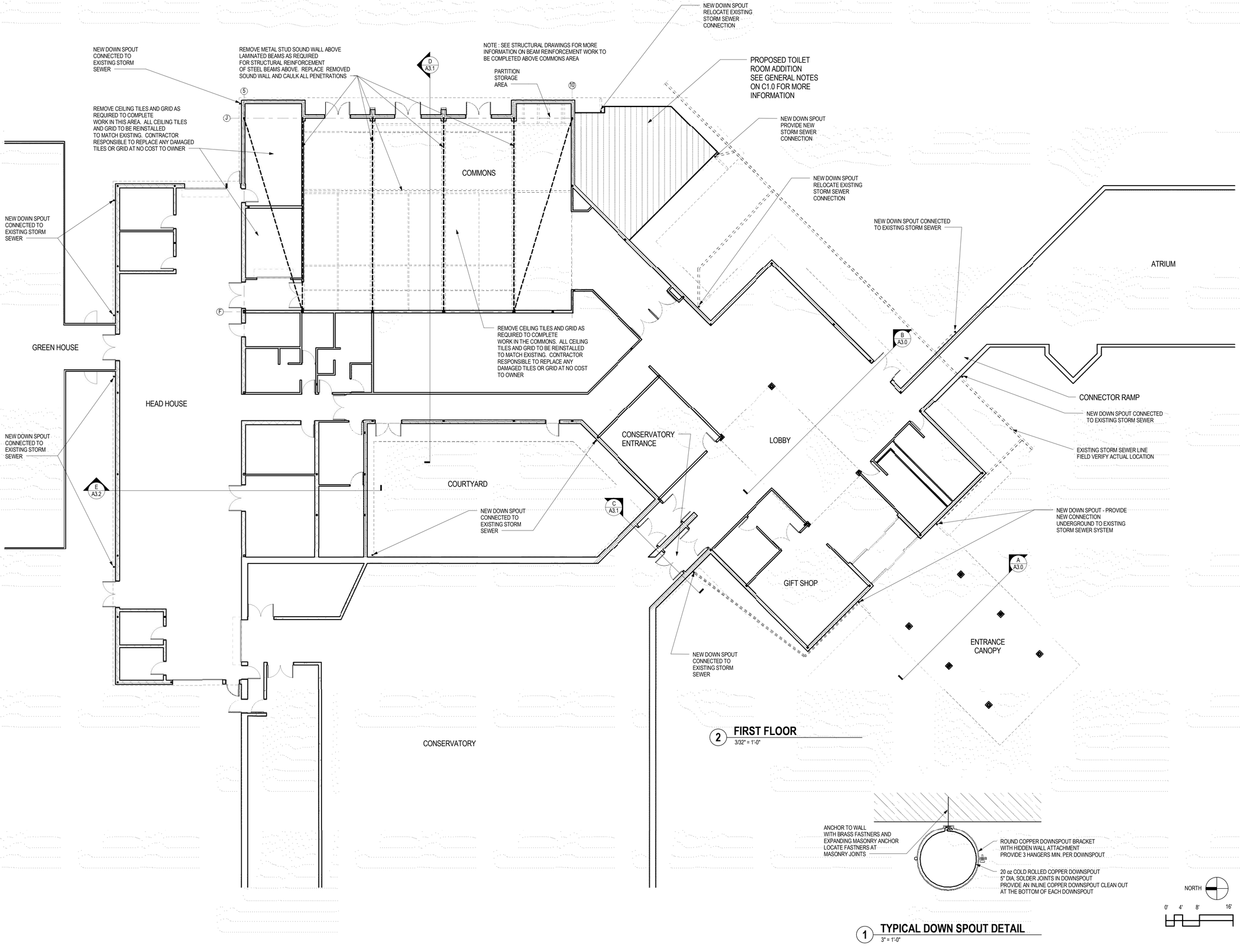
3300 ATWOOD AVENUE
MADISON, WI

DATE OF ISSUE: 12/11/2012

PROJECT # 12017

ROOF DEMOLITION PLAN

D1.3



2 FIRST FLOOR
3/32" = 1'-0"

1 TYPICAL DOWN SPOUT DETAIL
3" = 1'-0"

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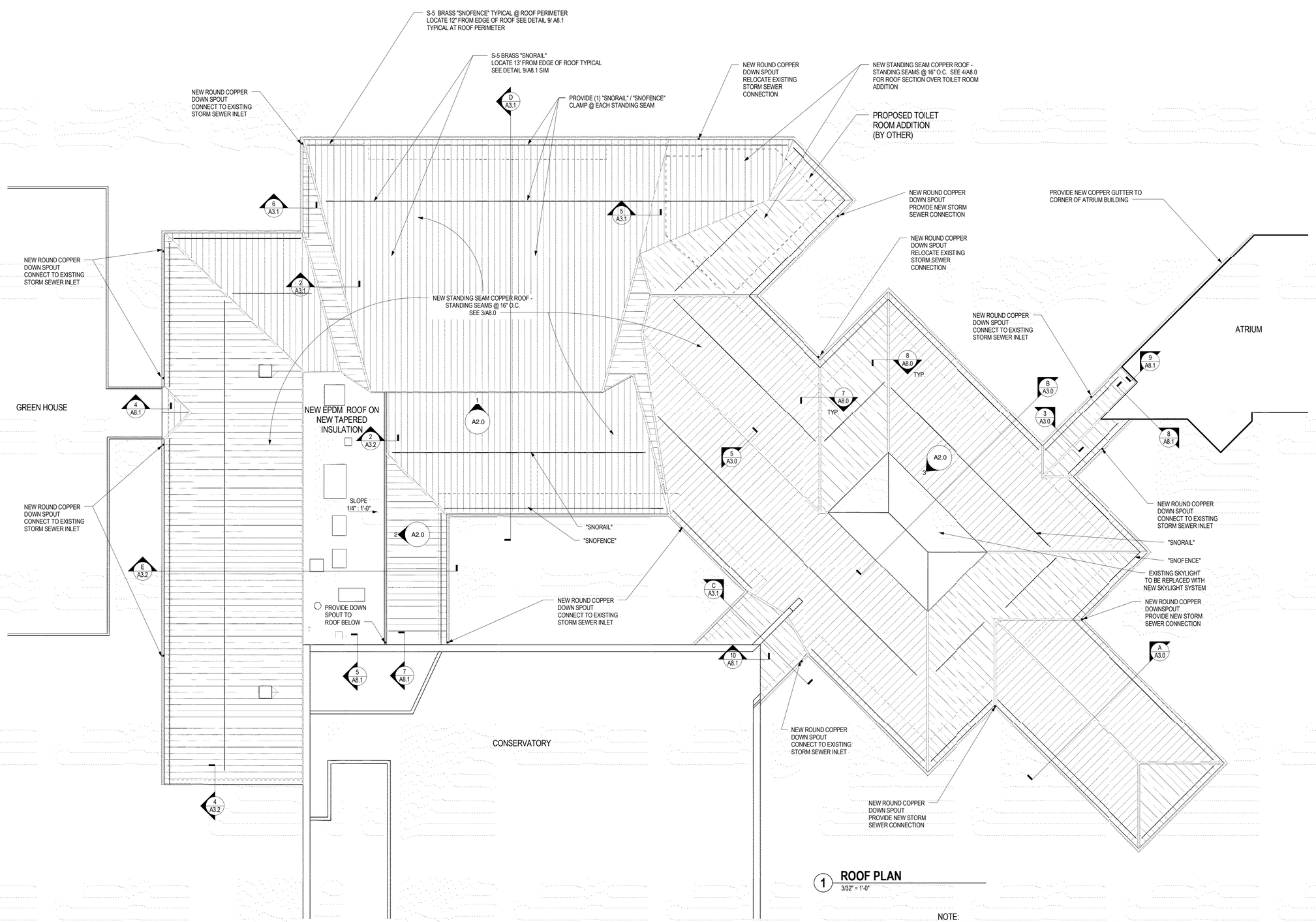
FIRST FLOOR PLAN

NORTH
0' 4' 8' 16'

A1.1



1 ROOF PLAN
3/32" = 1'-0"

NOTE:
1. PROVIDE A MINIMUM OF 1 "SNORAIL" /"SNOFENCE" CLAMP AT EVERY OTHER STANDING SEAM EXCEPT AS NOTED ON PLAN

NORTH

0' 4' 8' 16'

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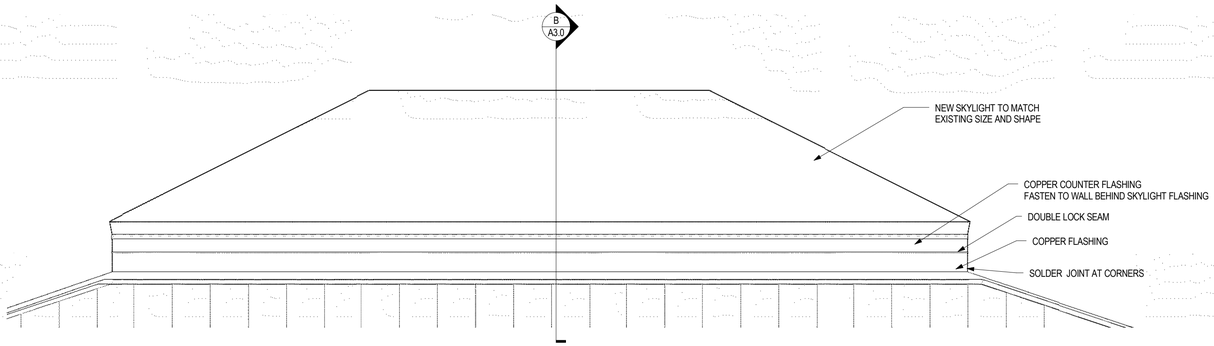
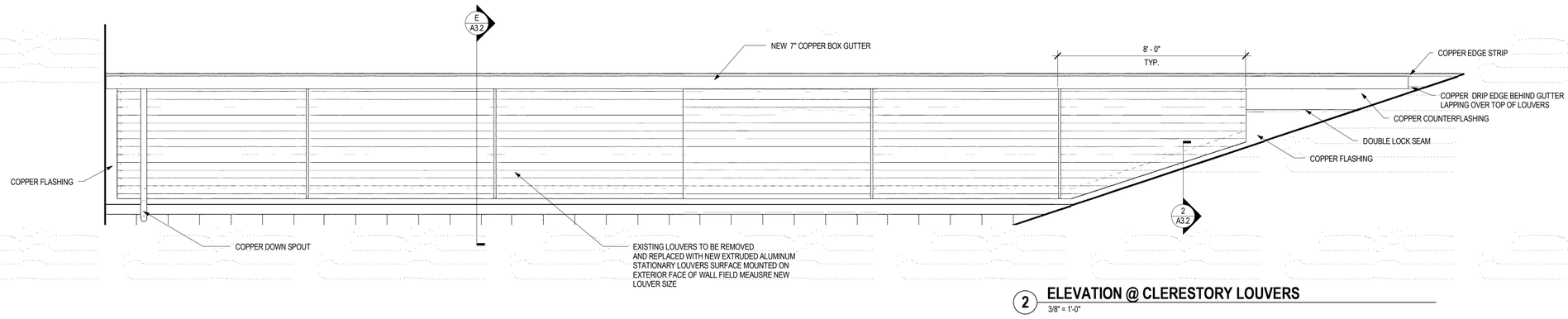
ROOF PLAN

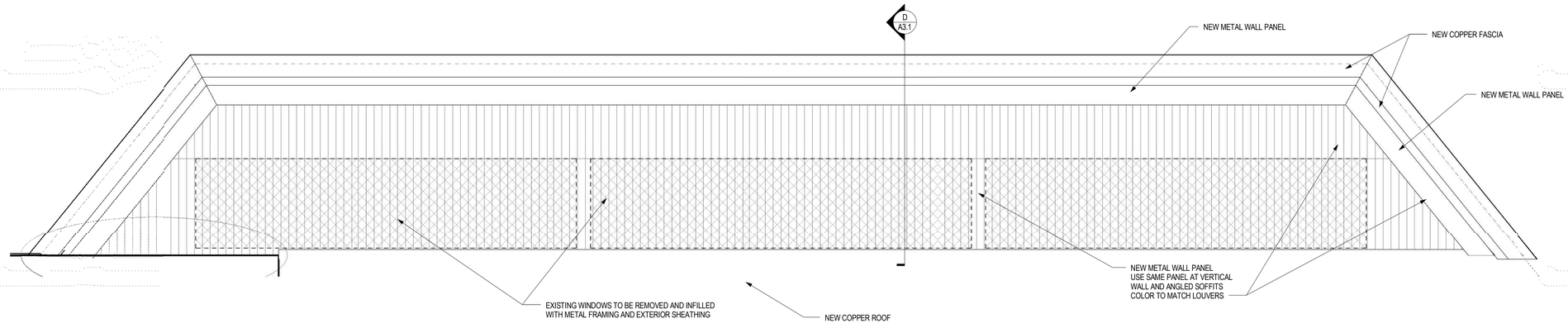
A1.3



3 **ELEVATION @ SKYLIGHT**
3/8" = 1'-0"



2 **ELEVATION @ CLERESTORY LOUVERS**
3/8" = 1'-0"



1 **ELEVATIONS @ CLERESTORY WINDOWS**
3/8" = 1'-0"

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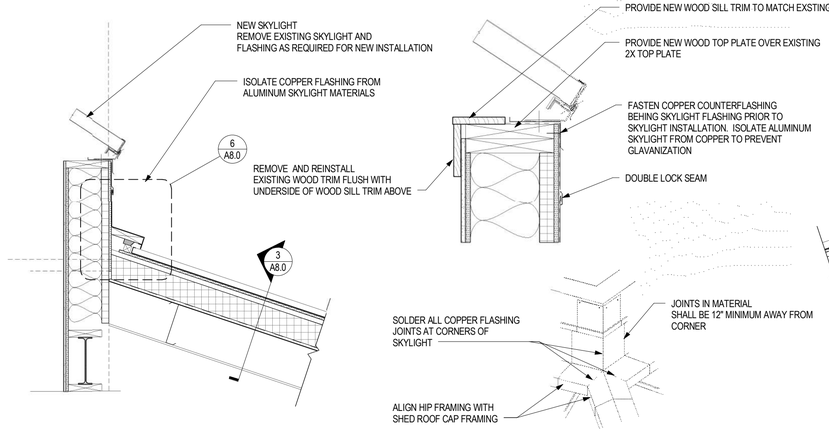
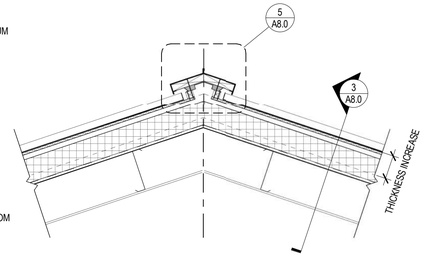
EXTERIOR ELEVATIONS

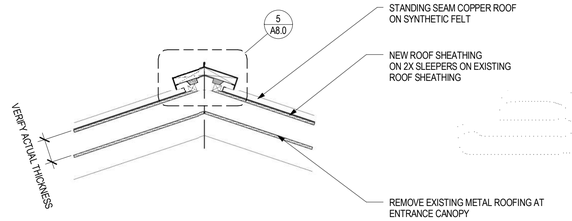
A2.0



6 ROOF TRANSITION @ SKYLIGHT
3/4" = 1'-0"

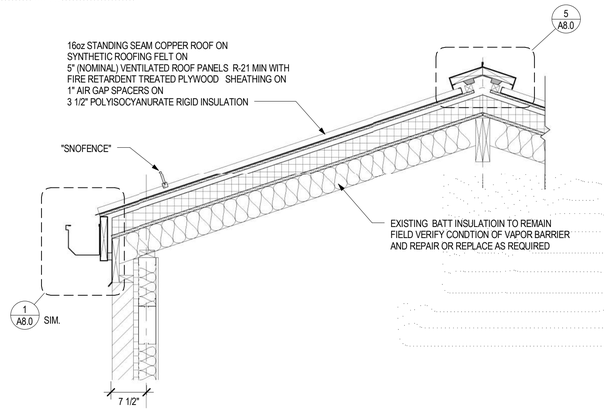


5 RIDGE DETAIL - TYPICAL
3/4" = 1'-0"

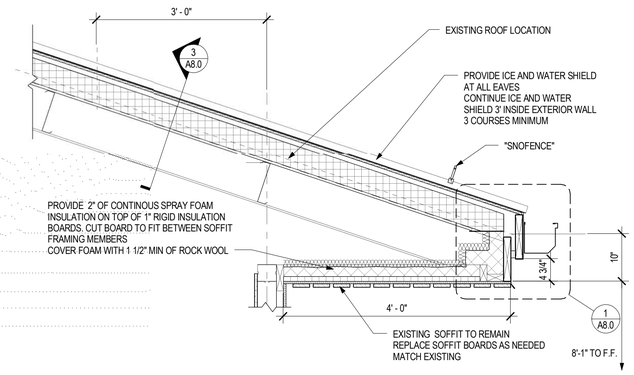


NOTE: 2X SLEEPER WIDTH SHOULD BE ADJUSTED SO THAT
THE OVERALL THICKNESS INCREASE OF THE ENTRANCE ROOF MATCHES
THE OVERALL THICKNESS OF THE ADJACENT BUILDING ROOF

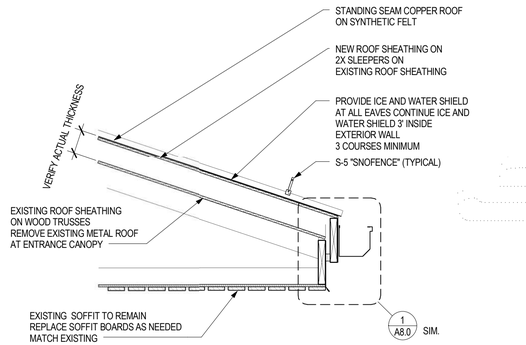
4 RIDGE DETAIL @ ENTRANCE CANOPY
3/4" = 1'-0"



3 EAVE DETAIL @ CONNECTION RAMP
3/4" = 1'-0"

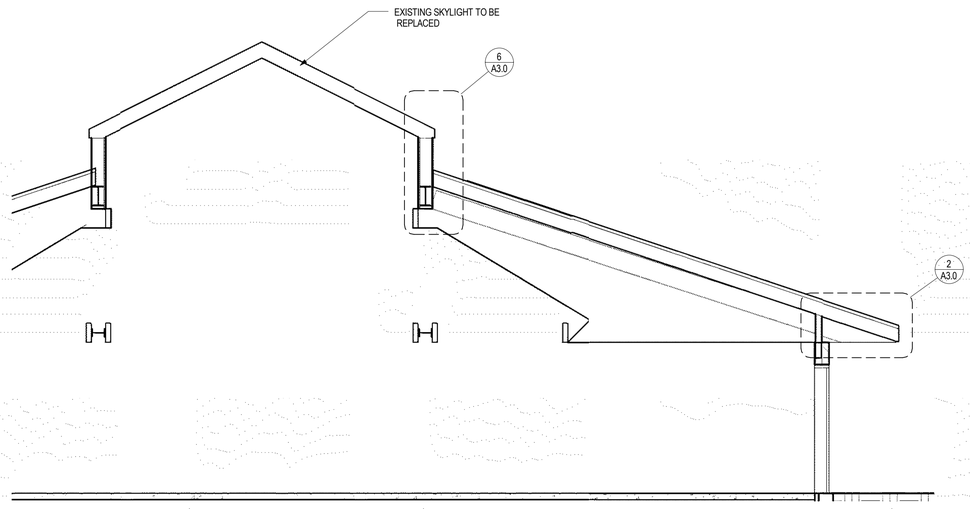


2 EAVE DETAIL @ TYPICAL OVERHANG
3/4" = 1'-0"

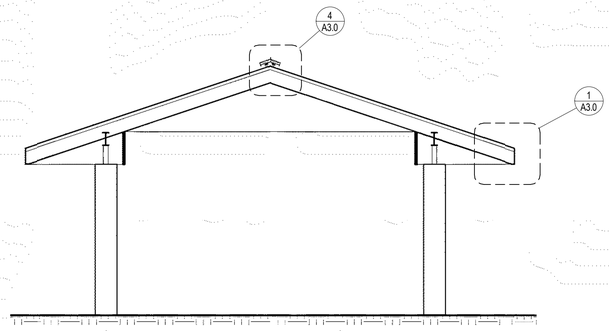


NOTE: 2X SLEEPER WIDTH SHOULD BE ADJUSTED SO THAT
THE OVERALL THICKNESS INCREASE OF THE ENTRANCE ROOF MATCHES
THE OVERALL THICKNESS OF THE ADJACENT BUILDING ROOF

1 EAVE DETAIL @ ENTRANCE CANOPY
3/4" = 1'-0"



B BUILDING SECTION @ LOBBY
1/4" = 1'-0"



A BUILDING SECTION @ ENTRANCE CANOPY
1/4" = 1'-0"

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OLBRICH BOTANICAL GARDENS ROOF REPLACEMENT

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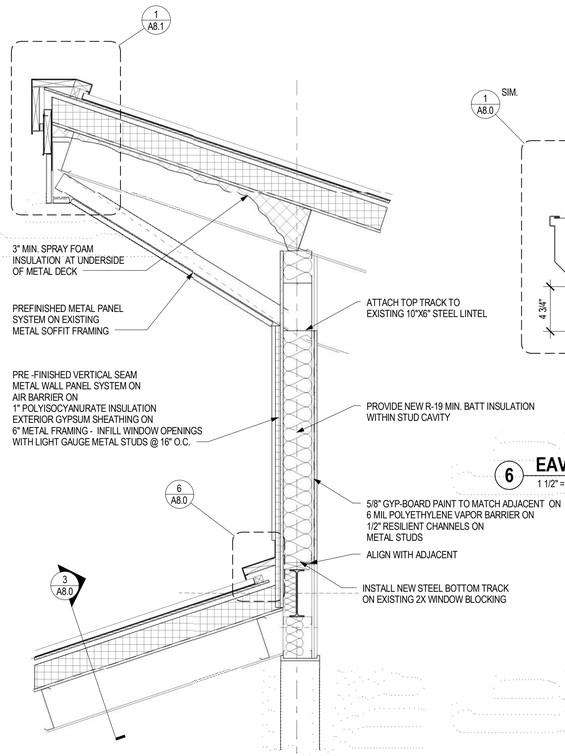
DATE OF ISSUE: 12/11/2012

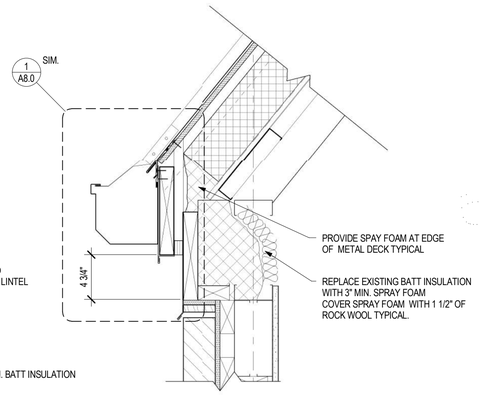
PROJECT # 12017

ROOF SECTIONS & DETAILS

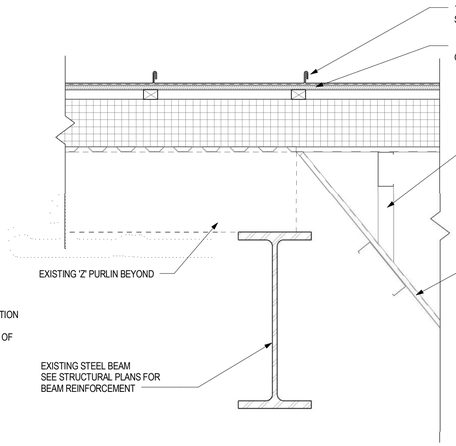
A3.0



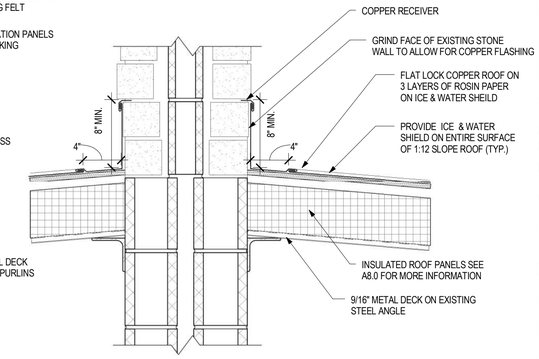
3 ROOF DETAIL @ CLERESTORY
3/4" = 1'-0"



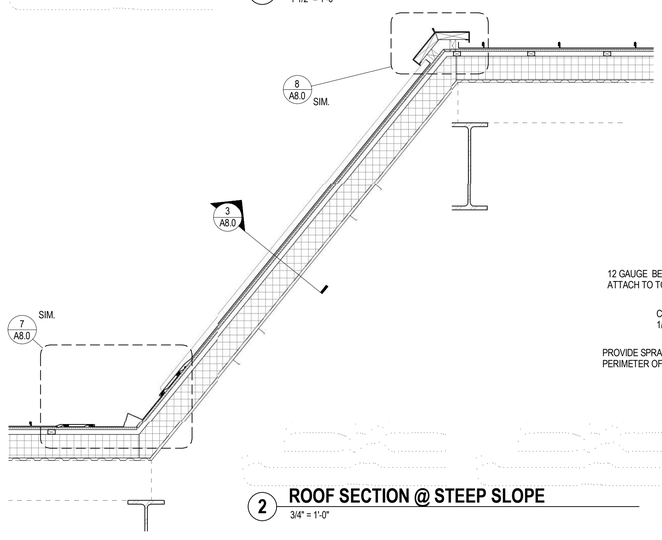
6 EAVE DETAIL @ STEEP PITCH
1 1/2" = 1'-0"



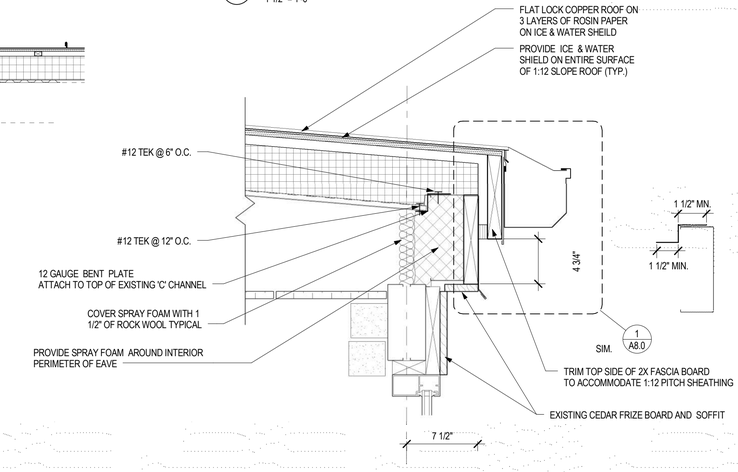
5 ROOF TRANSITION - EXISTING TO NEW
1 1/2" = 1'-0"



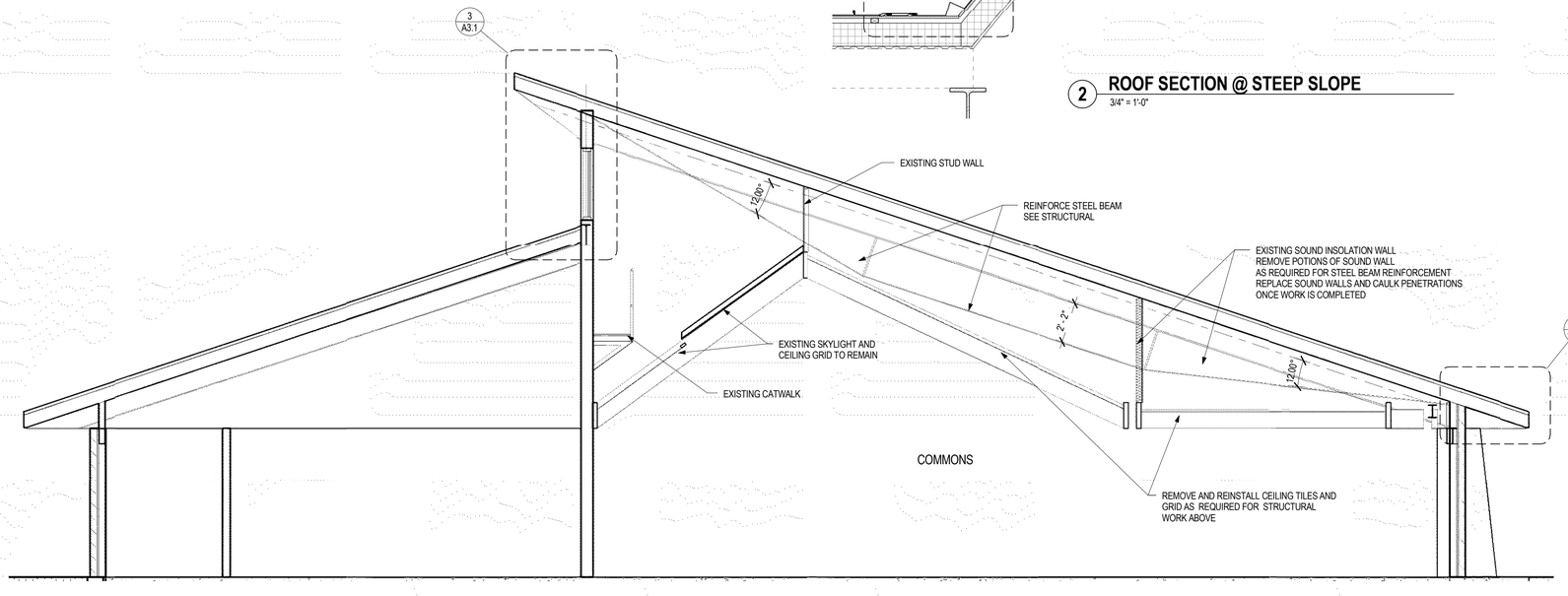
4 RIDGE DETAIL @ CONSERVATORY ENTRANCE
1 1/2" = 1'-0"



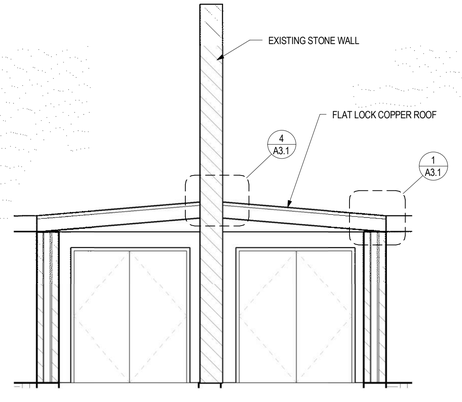
2 ROOF SECTION @ STEEP SLOPE
3/4" = 1'-0"



1 EAVE DETAIL @ CONSERVATORY ENTRANCE
1 1/2" = 1'-0"



D BUILDING SECTION @ COMMONS
1/4" = 1'-0"



C BUILDING SECTION @ CONSERVATORY ENTRANCE
1/4" = 1'-0"

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OLBRICH BOTANICAL GARDENS ROOF REPLACEMENT

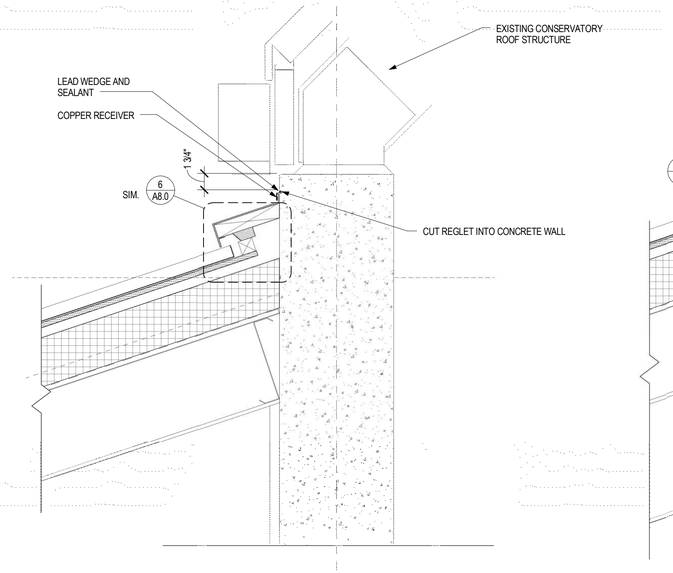
3300 ATWOOD AVENUE
MADISON, WI

DATE OF ISSUE: 12/11/2012

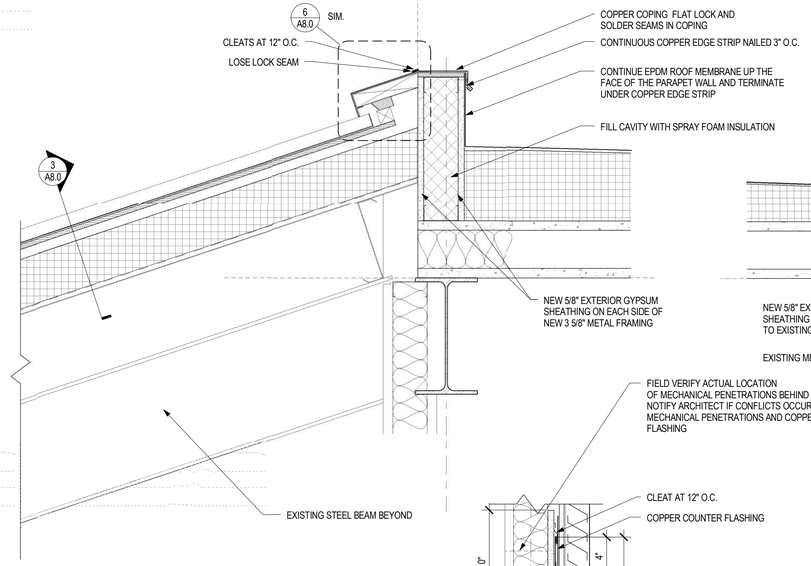
PROJECT # 12017

ROOF SECTIONS & DETAILS

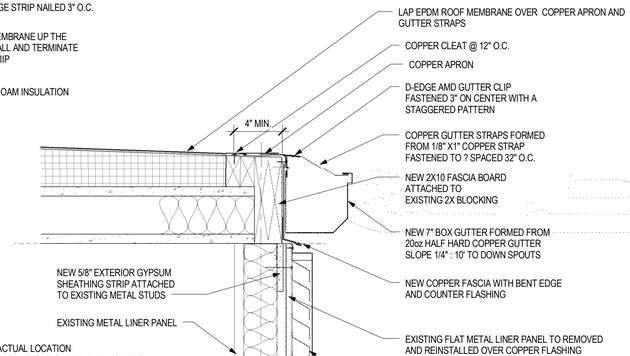
A3.1

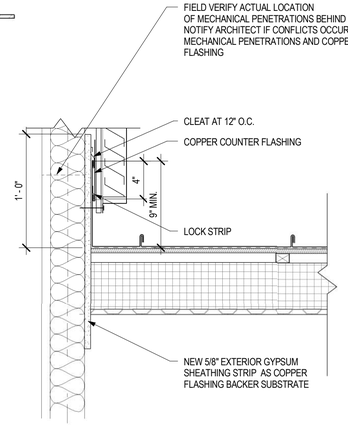


6 ROOF TRANSITION @ CONSERVATORY
1 1/2" = 1'-0"

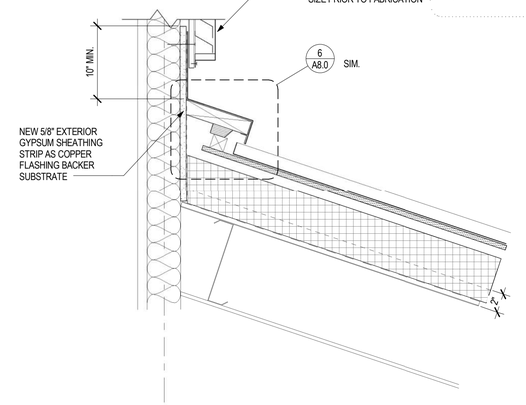


5 ROOF TRANSITION DETAIL
1 1/2" = 1'-0"

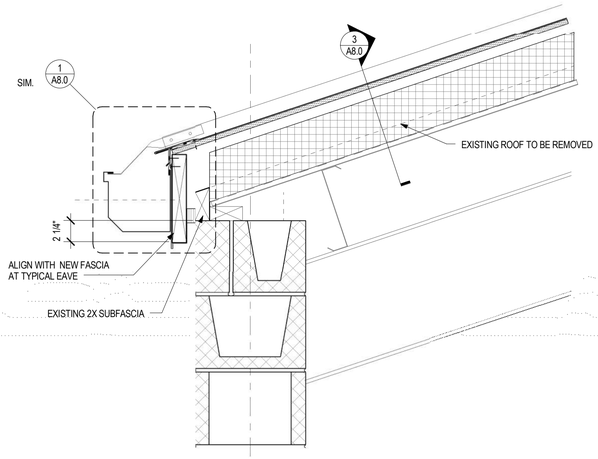


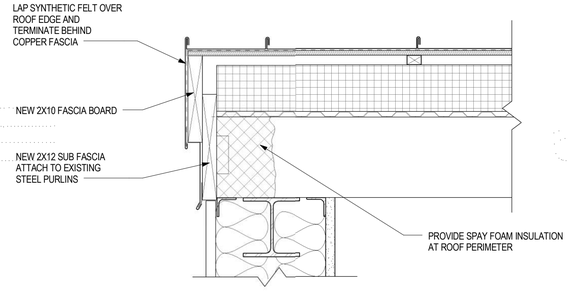


2 VALLEY DETAIL @ LOUVERS
1 1/2" = 1'-0"



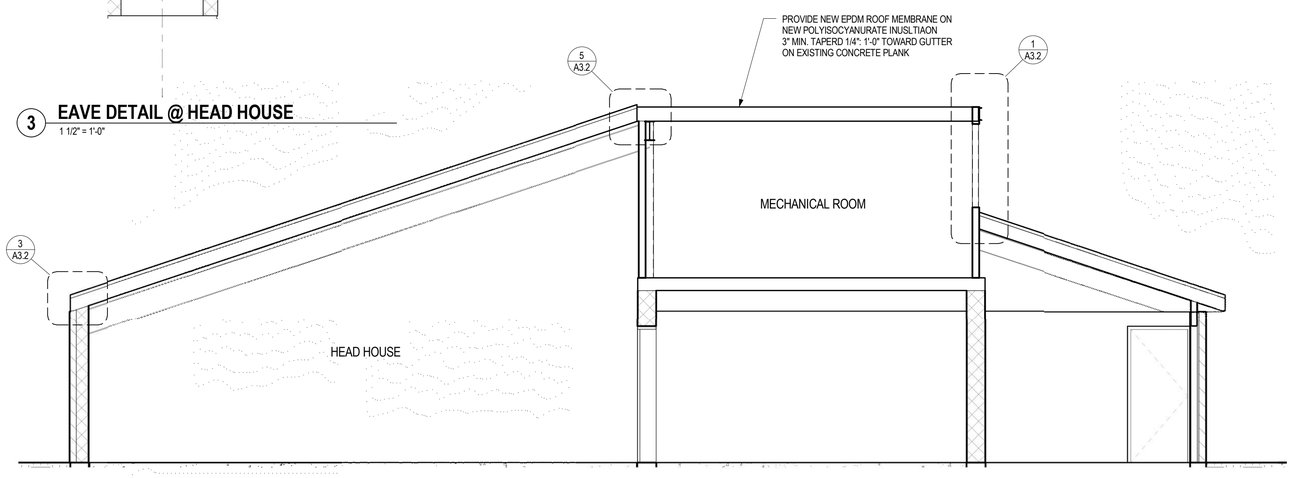
1 ROOF DETAIL @ LOUVERS
1 1/2" = 1'-0"





4 RAKE DETAIL
1 1/2" = 1'-0"

3 EAVE DETAIL @ HEAD HOUSE
1 1/2" = 1'-0"



E BUILDING SECTION @ HEAD HOUSE
1/4" = 1'-0"

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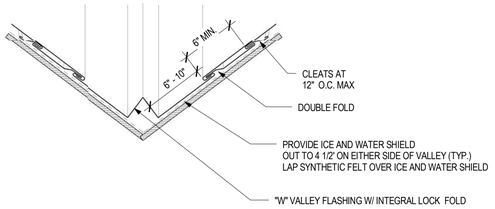
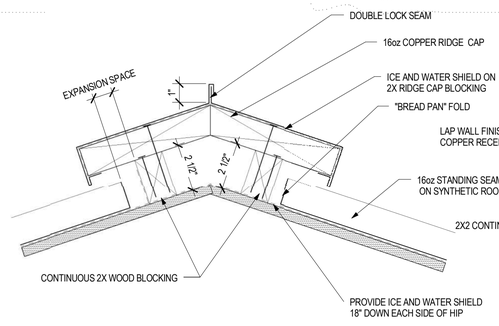
ROOF SECTIONS & DETAILS

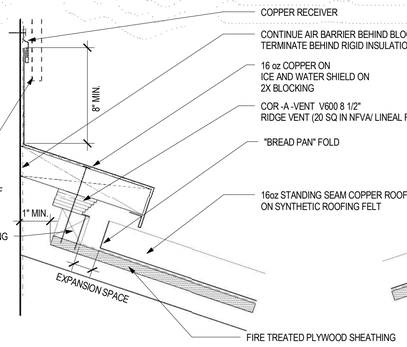
A3.2



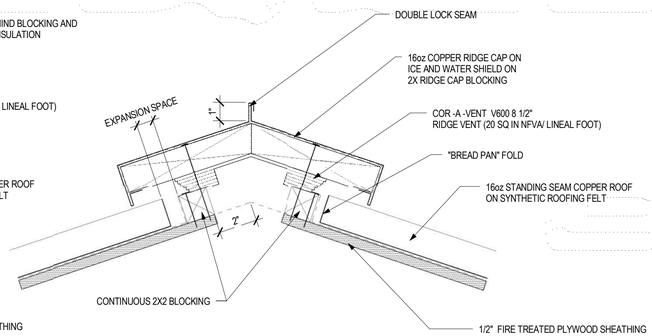
7 TYPICAL VALLEY DETAIL
1 1/2" = 1'-0"



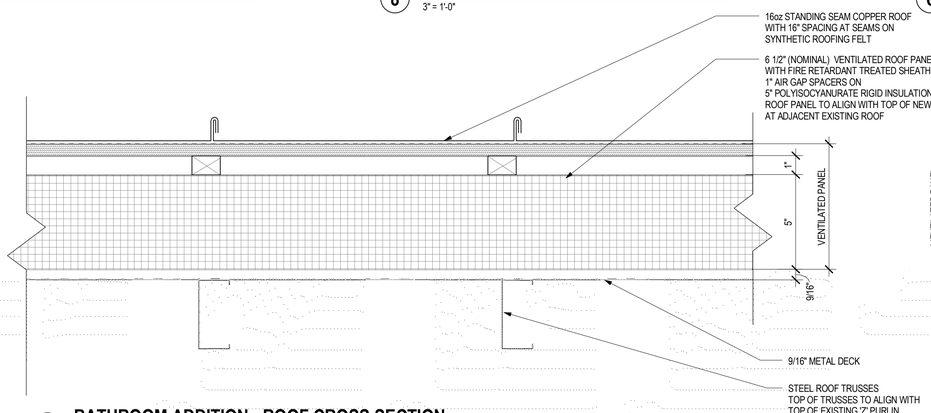
8 TYPICAL HIP DETAIL
3" = 1'-0"



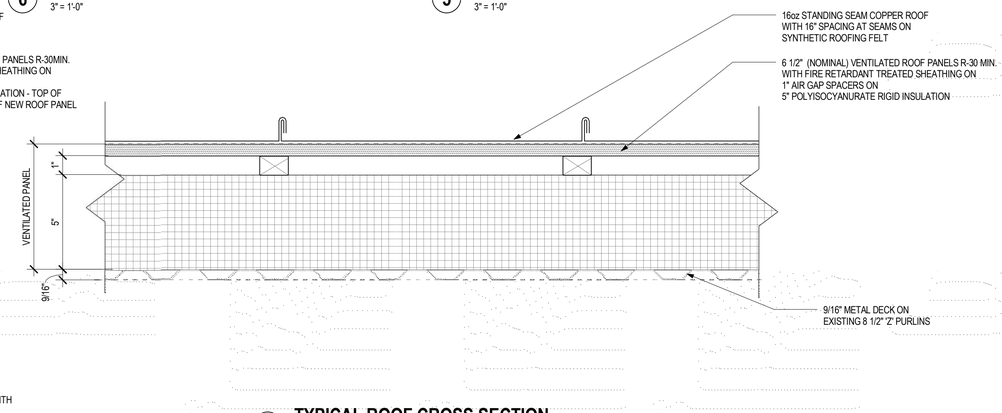
6 SHED ROOF VENT DETAIL
3" = 1'-0"



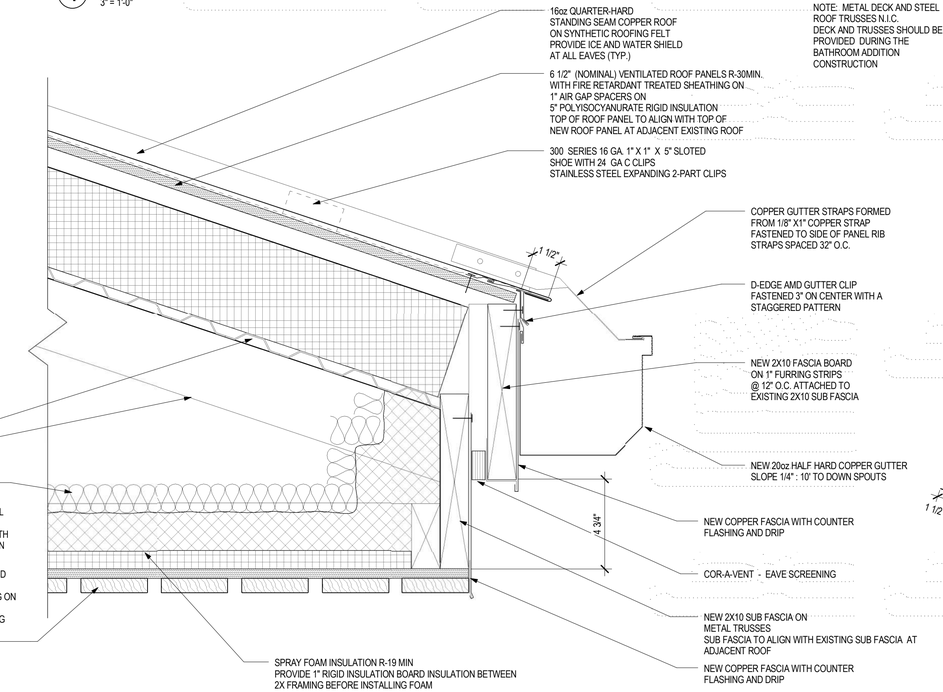
5 RIDGE CAP
3" = 1'-0"



4 BATHROOM ADDITION - ROOF CROSS SECTION
3" = 1'-0"



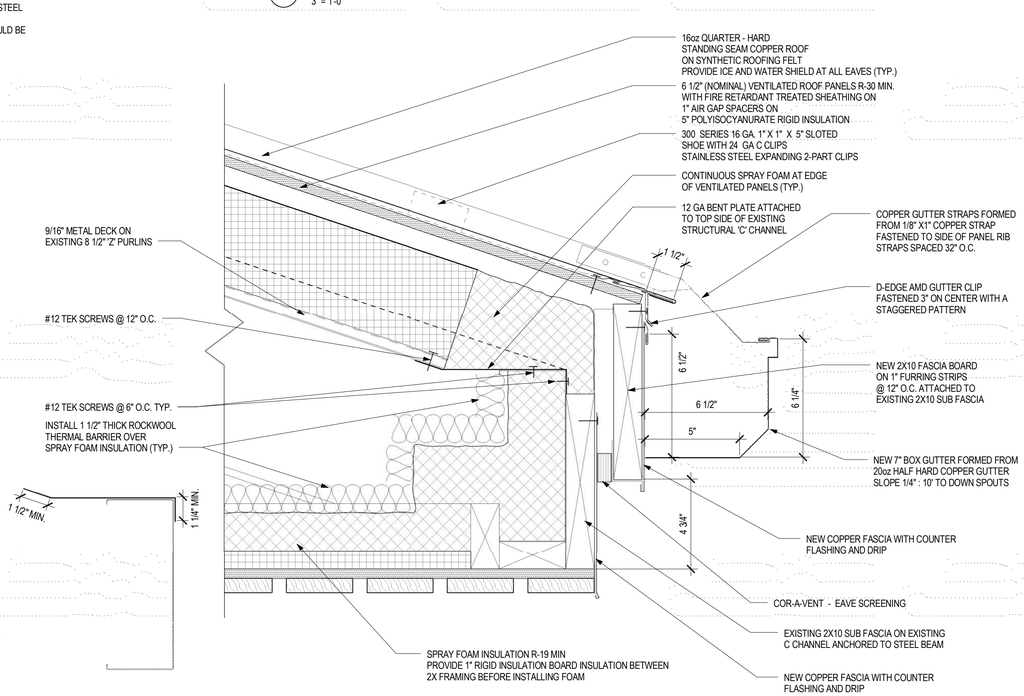
3 TYPICAL ROOF CROSS SECTION
3" = 1'-0"



2 BATHROOM ADDITION - EAVE DETAIL
3" = 1'-0"

NOTE:
METAL DECK, STEEL ROOF TRUSSES , 2X10 SUBFASCIA, SOFFIT MATERIALS AND OTHER BLOCKING
ARE TO BE PROVIDED AS PART OF THE BATHROOM ADDITION CONSTRUCTION.

NOTE: METAL DECK AND STEEL
ROOF TRUSSES N.I.C.
DECK AND TRUSSES SHOULD BE
PROVIDED DURING THE
BATHROOM ADDITION
CONSTRUCTION



1 TYPICAL GUTTER DETAIL
3" = 1'-0"

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CITY ENGINEERING
DIVISION

CITY-COUNTY BUILDING, ROOM 115
210 MARTIN LUTHER KING JR BLVD
MADSION, WI 53703

OLBRICH BOTANICAL GARDENS ROOF REPLACEMENT

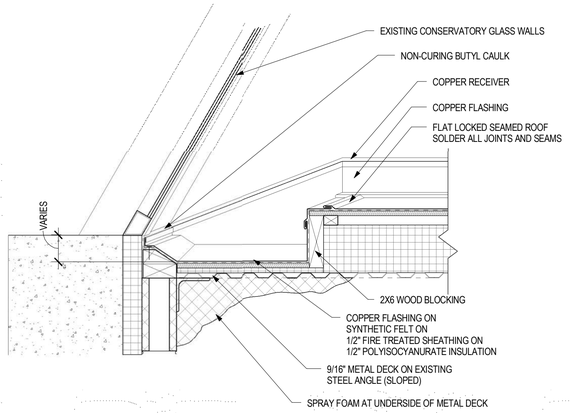
3300 ATWOOD AVENUE
MADISON, WI

DATE OF ISSUE: 12/11/2012

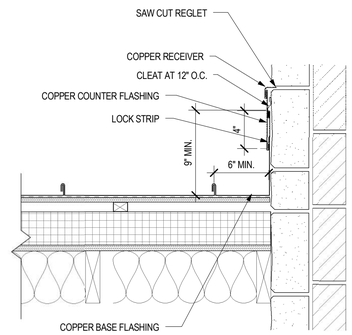
PROJECT # 12017

DETAILS

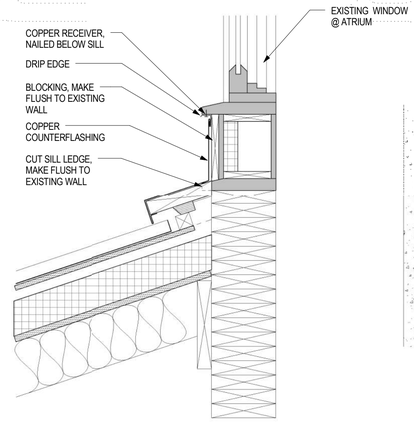
A8.0



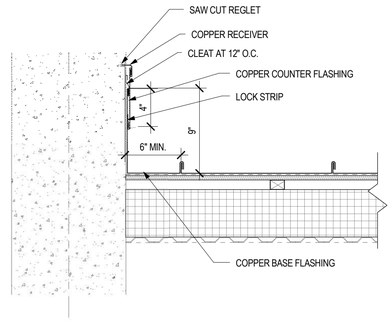
10 VALLEY GUTTER @ CONSERVATORY
1 1/2" = 1'-0"



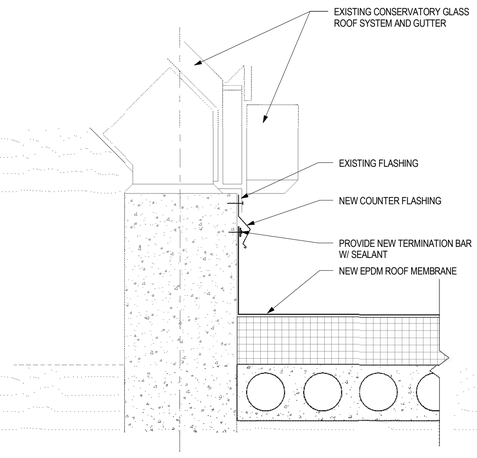
9 STEPPED FLASHING @ ATRIUM
1 1/2" = 1'-0"



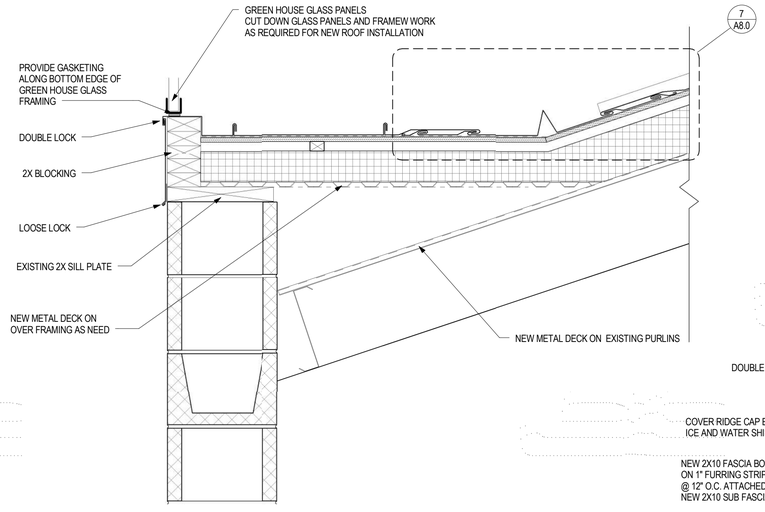
8 ROOF TRANSITION @ ATRIUM
1 1/2" = 1'-0"



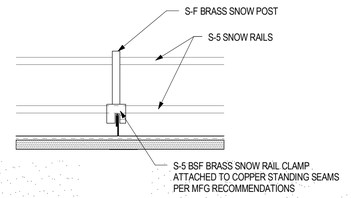
7 STEPPED FLASHING @ CONCRETE WALL
1 1/2" = 1'-0"



5 ROOF TRANSITION @ FLAT ROOF
1 1/2" = 1'-0"

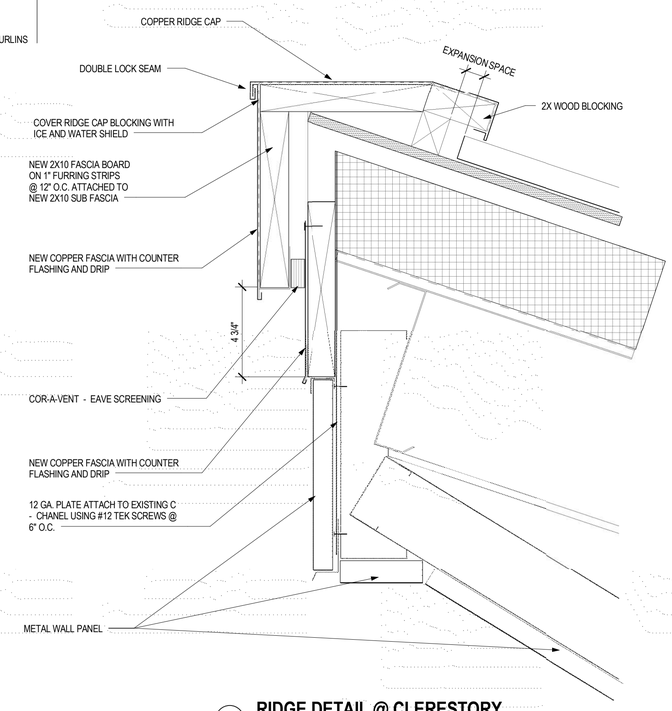


4 RAKE DETAIL @ GREEN HOUSE
1 1/2" = 1'-0"

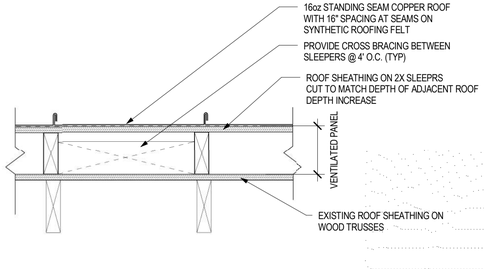


6 "SNOFENCE" DETAIL
3" = 1'-0"

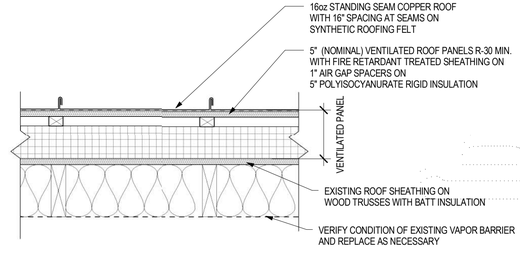
"SNORAIL" DETAIL SIMILAR WITHOUT TOP RAIL AND SNOW POST.



1 RIDGE DETAIL @ CLERESTORY
3" = 1'-0"



3 ROOF CROSS SECTION @ ENTRANCE CANOPY
1 1/2" = 1'-0"



2 ROOF CROSS SECTION @ CONECTOR RAMP
1 1/2" = 1'-0"

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DETAILS

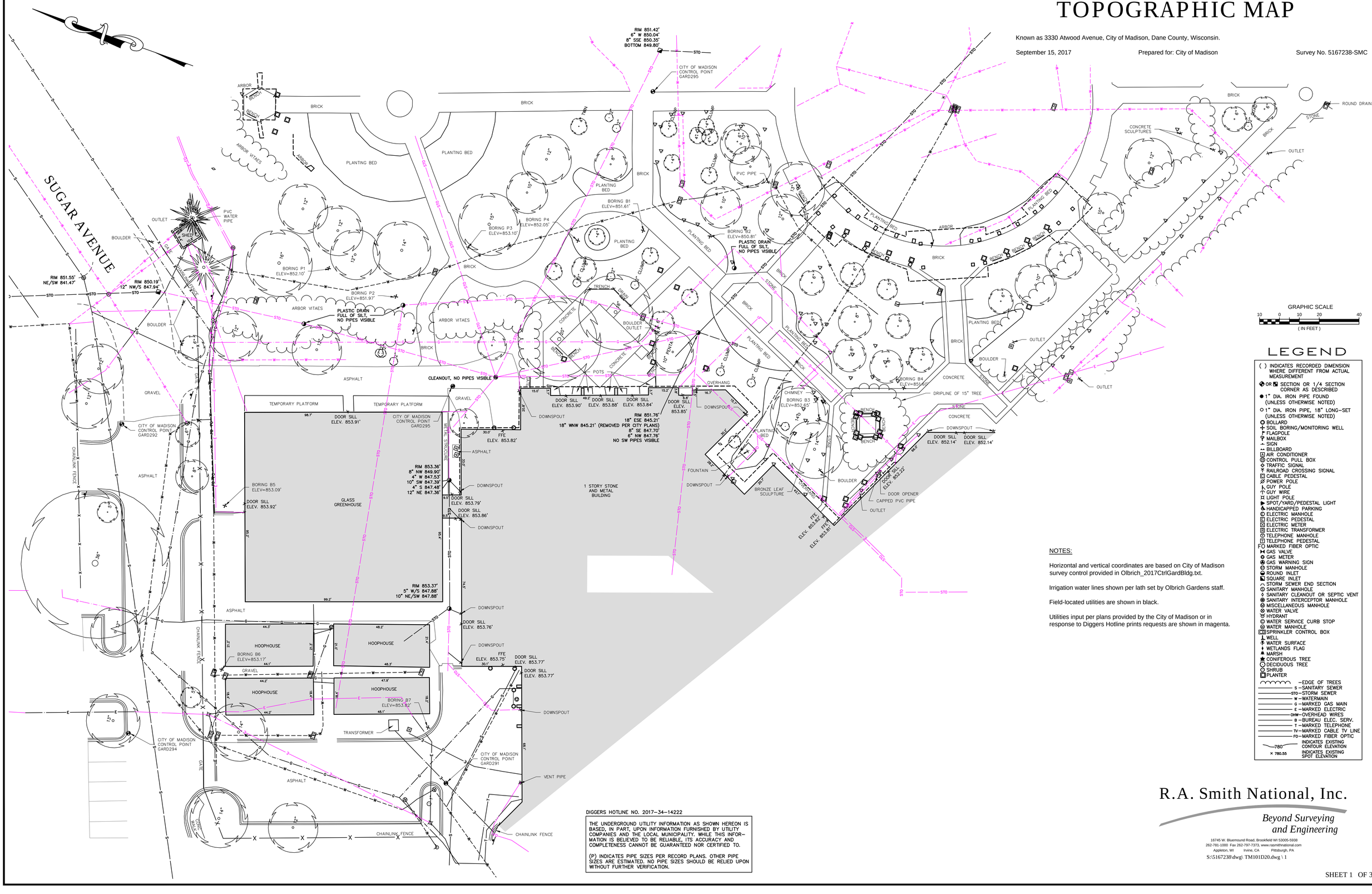
A8.1

TOPOGRAPHIC MAP

Known as 3330 Atwood Avenue, City of Madison, Dane County, Wisconsin.

September 15, 2017 | Prepared for: City of Madison | Survey No. 5167238-SMC

R.A. Smith National, Inc.



LEGEND

( ) INDICATES RECORDED DIMENSION WHERE DIFFERENT FROM ACTUAL MEASUREMENT
OR SECTION OR 1/4 SECTION CORNER AS DESCRIBED
● 1" DIA. IRON PIPE FOUND (UNLESS OTHERWISE NOTED)
○ 1" DIA. IRON PIPE, 18" LONG–SET (UNLESS OTHERWISE NOTED)
BOLLARD
SOIL BORING/MONITORING WELL
FLAGPOLE
MAILBOX
SIGN
BILLBOARD
AIR CONDITIONER
CONTROL PULL BOX
TRAFFIC SIGNAL
RAILROAD CROSSING SIGNAL
CABLE PEDESTAL
POWER POLE
GUY POLE
GUY WIRE
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TELEPHONE MANHOLE
TELEPHONE PEDESTAL
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GAS VALVE
GAS METER
GAS WARNING SIGN
STORM MANHOLE
ROUND INLET
SQUARE INLET
STORM SEWER END SECTION
SANITARY MANHOLE
SANITARY CLEANOUT OR SEPTIC VENT
SANITARY INTERCEPTOR MANHOLE
MISCELLANEOUS MANHOLE
WATER VALVE
HYDRANT
WATER SERVICE CURB STOP
WATER MANHOLE
SPRINKLER CONTROL BOX
WELL
WATER SURFACE
WETLANDS FLAG
MARSH
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DECIDUOUS TREE
SHRUB
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B –BUREAU ELEC. SERV.
T –MARKED TELEPHONE
TV–MARKED CABLE TV LINE
FO–MARKED FIBER OPTIC
780 INDICATES EXISTING CONTOUR ELEVATION
× 780.55 INDICATES EXISTING SPOT ELEVATION

NOTES:

Horizontal and vertical coordinates are based on City of Madison survey control provided in Olbrich_2017CtrlGardBldg.txt.

Irrigation water lines shown per lath set by Olbrich Gardens staff.

Field-located utilities are shown in black.

Utilities input per plans provided by the City of Madison or in response to Diggers Hotline prints requests are shown in magenta.

DIGGERS HOTLINE NO. 2017–34–14222

THE UNDERGROUND UTILITY INFORMATION AS SHOWN HEREON IS BASED, IN PART, UPON INFORMATION FURNISHED BY UTILITY COMPANIES AND THE LOCAL MUNICIPALITY. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, ITS ACCURACY AND COMPLETENESS CANNOT BE GUARANTEED NOR CERTIFIED TO.

(P) INDICATES PIPE SIZES PER RECORD PLANS. OTHER PIPE SIZES ARE ESTIMATED. NO PIPE SIZES SHOULD BE RELIED UPON WITHOUT FURTHER VERIFICATION.

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262-781-1000 Fax 262-797-7373, www.rasmithnational.com
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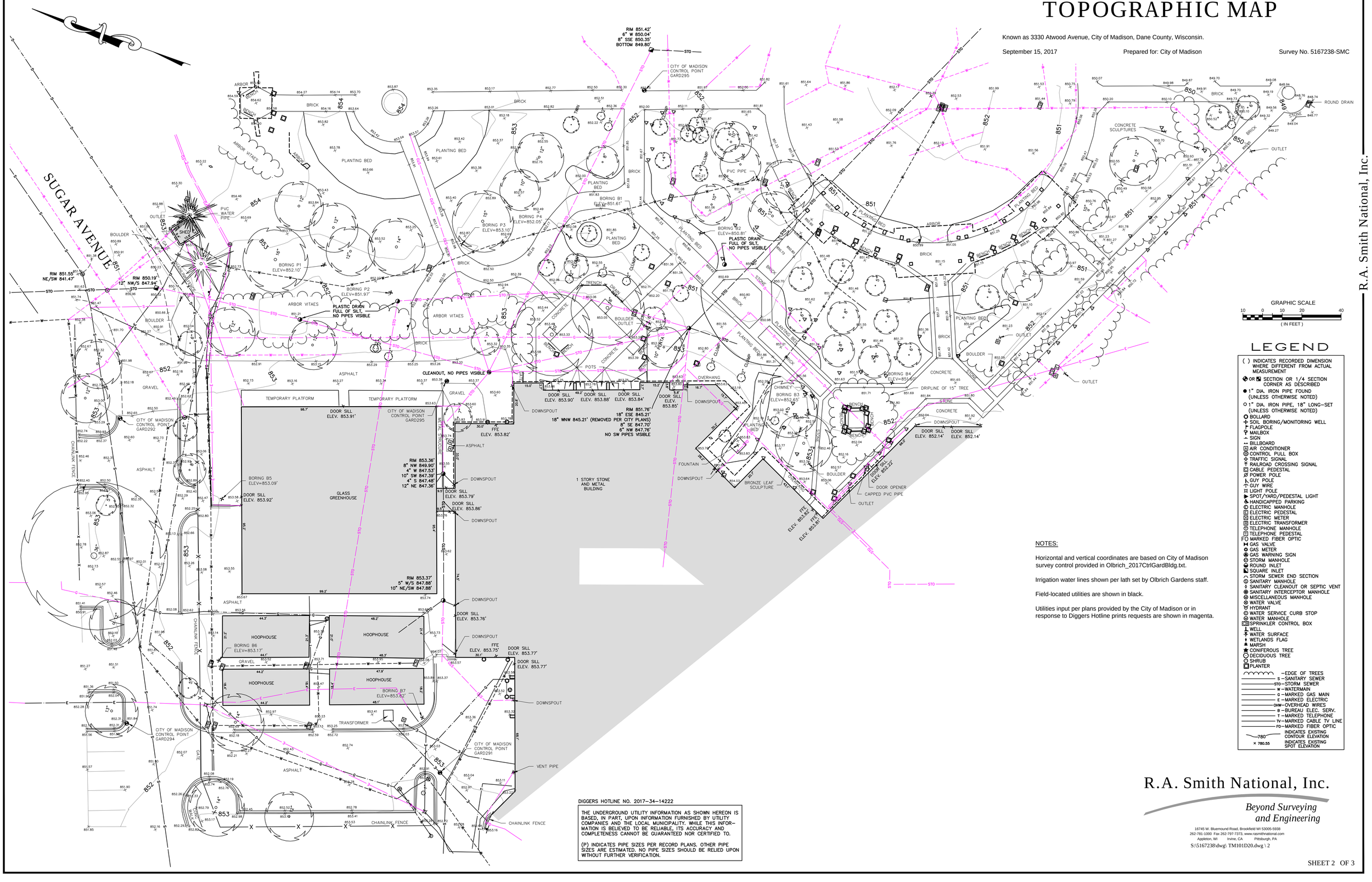

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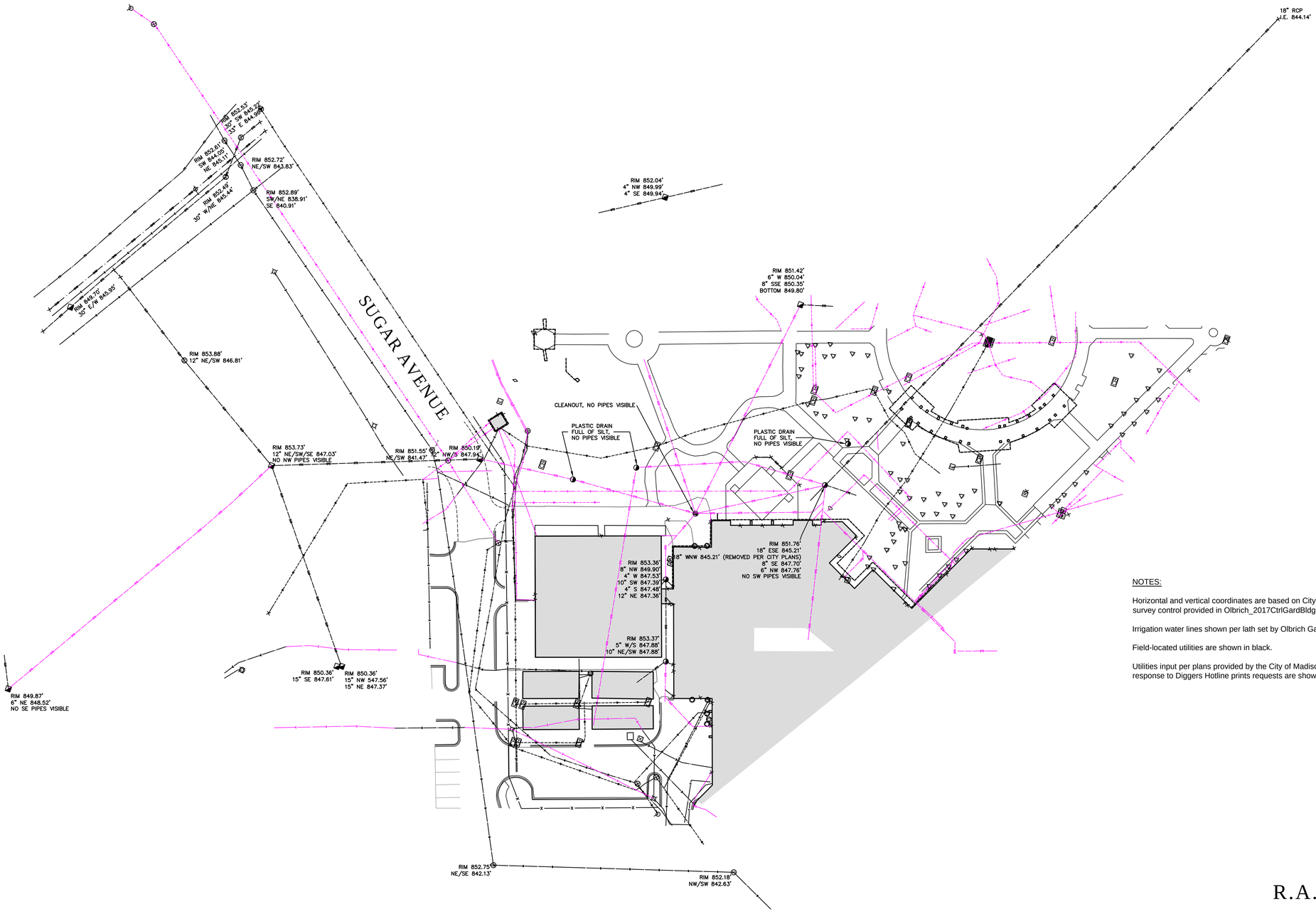

GRAPHIC SCALE

20 0 20 40 80

(IN FEET)

LEGEND

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