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OWNER INFORMATION

State of Utah
Department of Administrative Services

Division of Facilities
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4110 State Office Building
Salt Lake City, Utah 84114
Phone: (801) 538 - 3018
Fax: (801) 538 - 3267

Internet: <http://www.dfm.utah.gov>

PROJECT DESCRIPTION

**UTAH NATIONAL
GUARD 144th
COMPANY
READINESS
CENTER**

CAMP WG WILLIAMS
RIVERTON, UTAH

SHEET NAME:

DETAILS

REVISIONS

MARK	DATE	DESCRIPTION

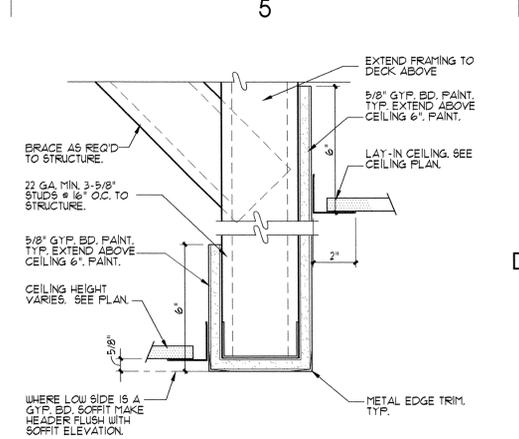
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ISSUE DATE: DEC. 2005
ISSUE TYPE: CONDOCS
DRAWN BY: BJA
CHECKED BY: KRR
CAD FILE NAME: 0470AE501
DFCM PROJECT # 04042480

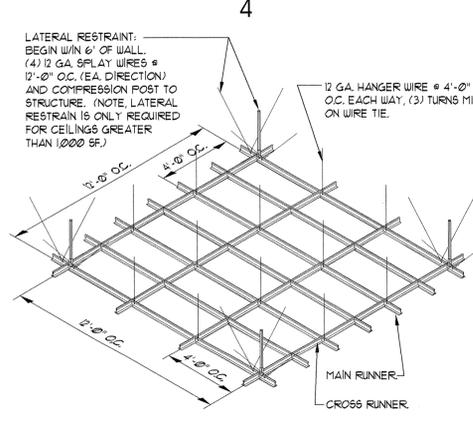
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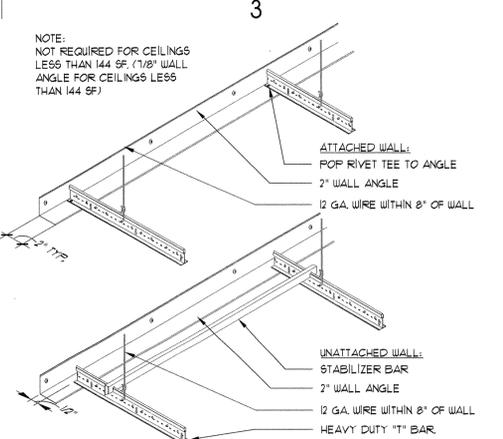
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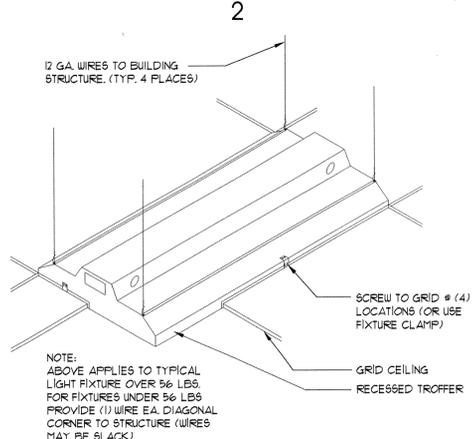
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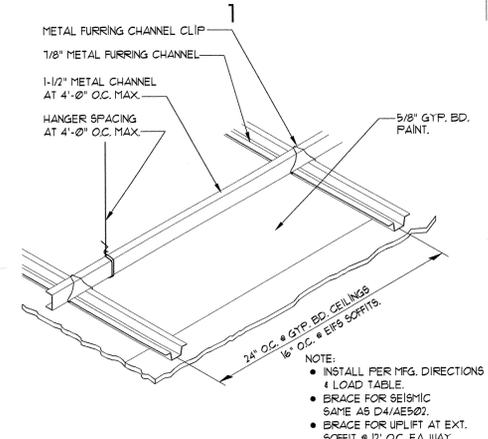
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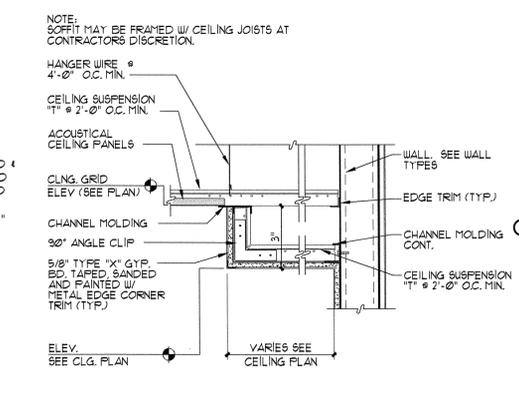
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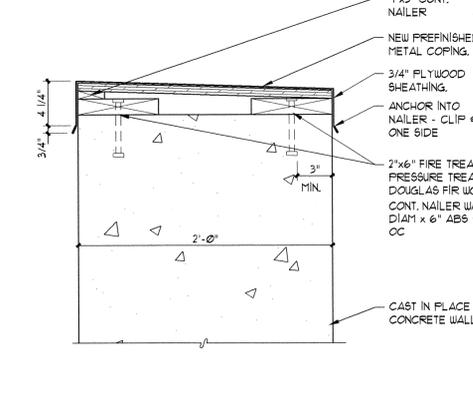
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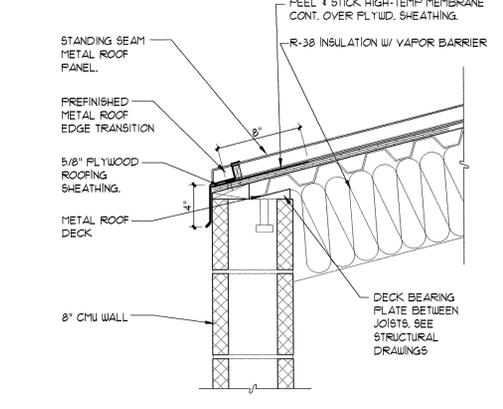
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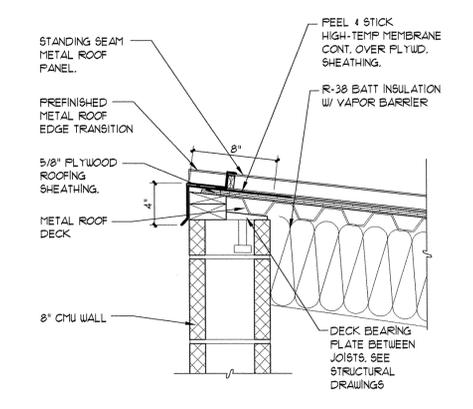
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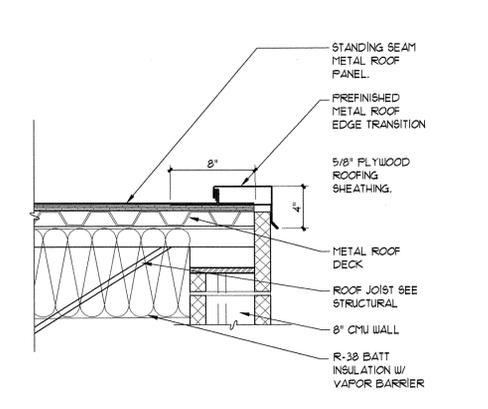
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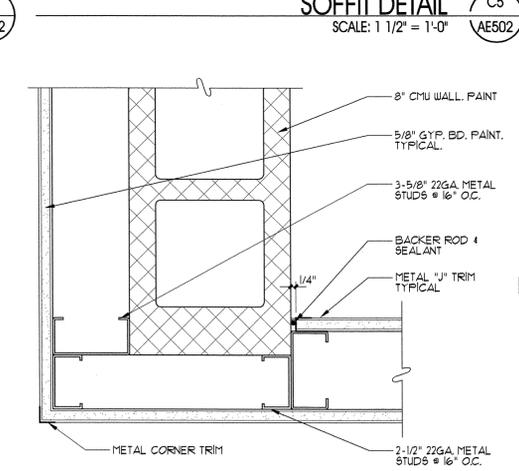
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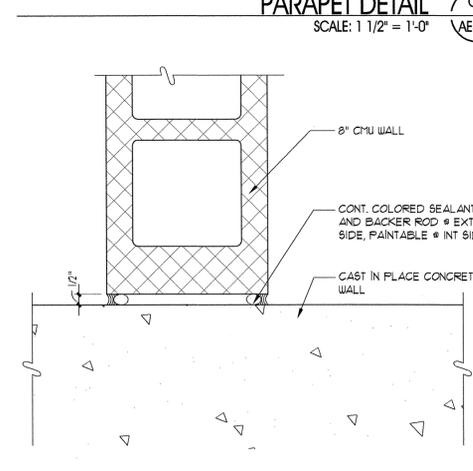
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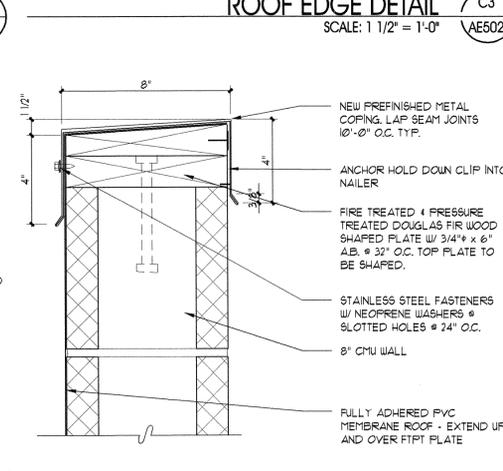
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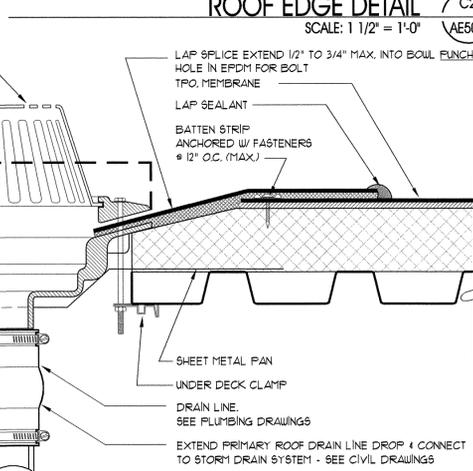
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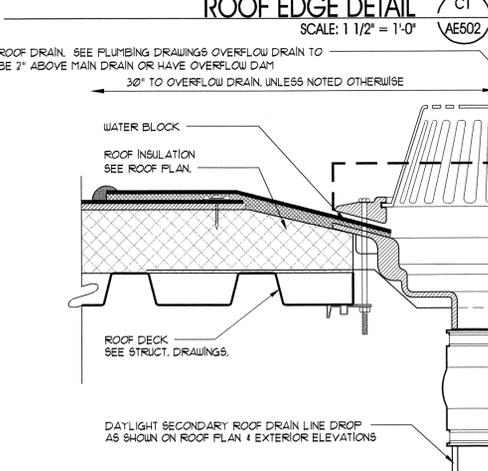
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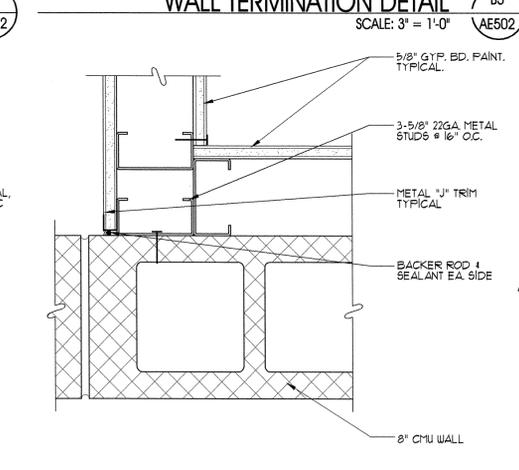
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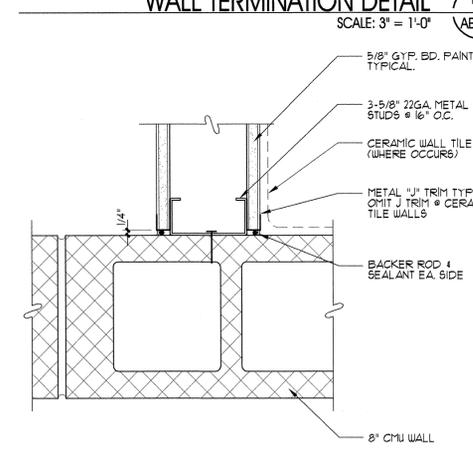
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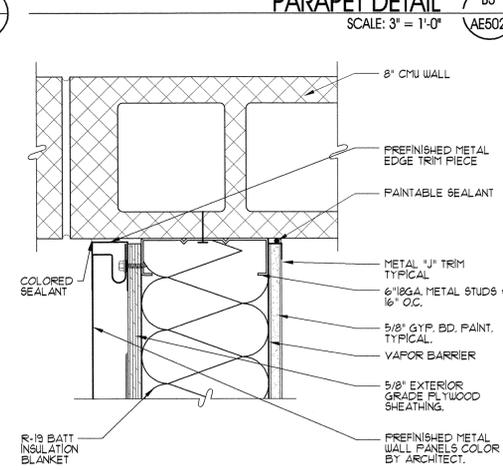
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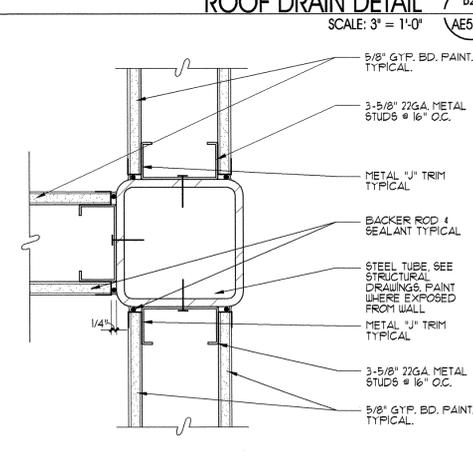
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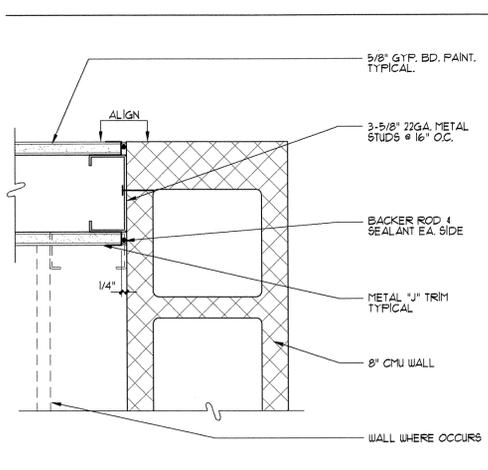
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WALL TERMINATION DETAIL (A3)
SCALE: 3" = 1'-0" AE502



COLUMN & WALL DETAIL (A2)
SCALE: 3" = 1'-0" AE502



WALL TERMINATION DETAIL (A1)
SCALE: 3" = 1'-0" AE502



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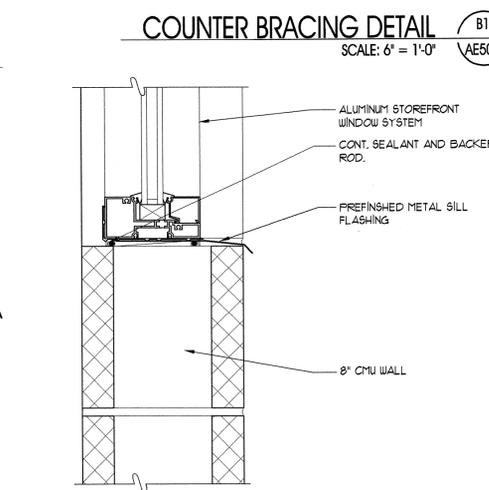
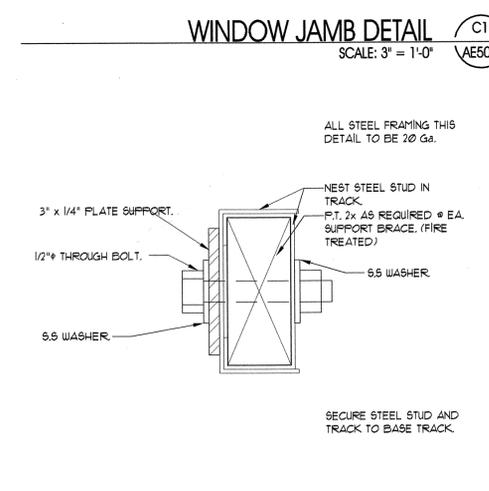
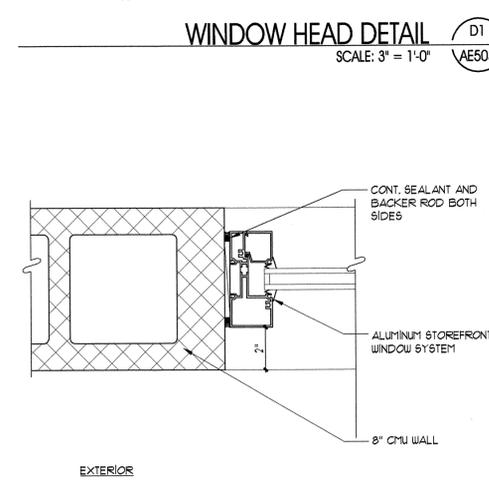
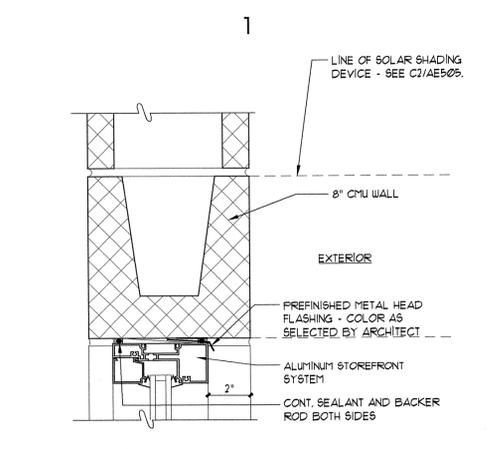
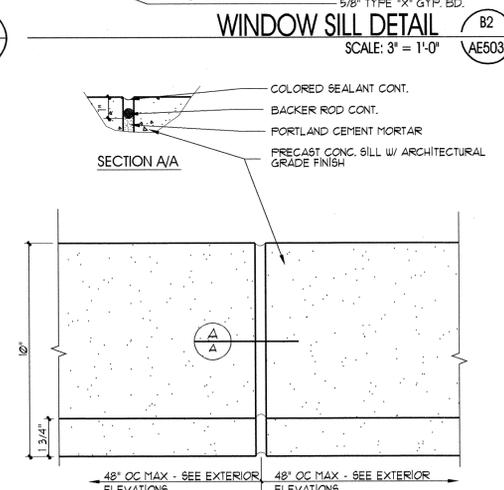
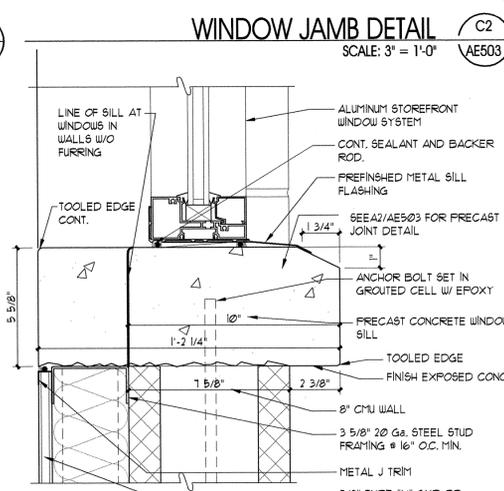
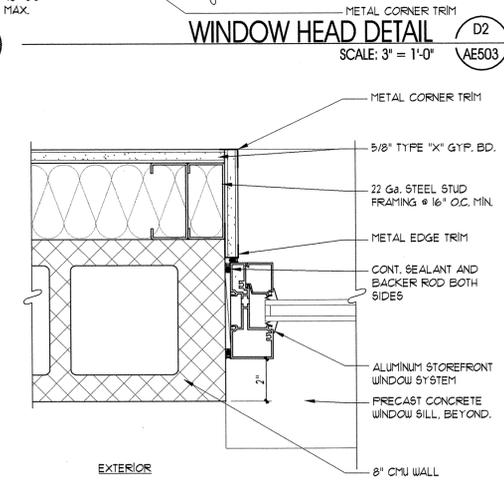
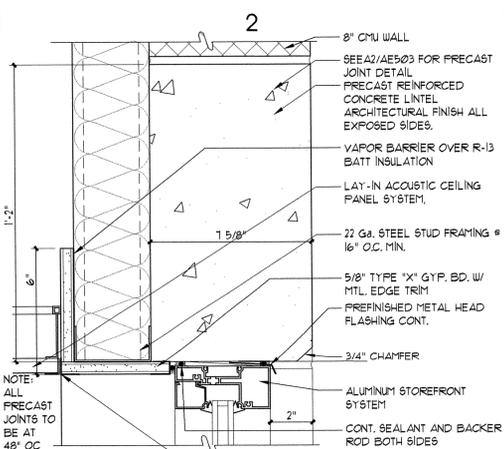
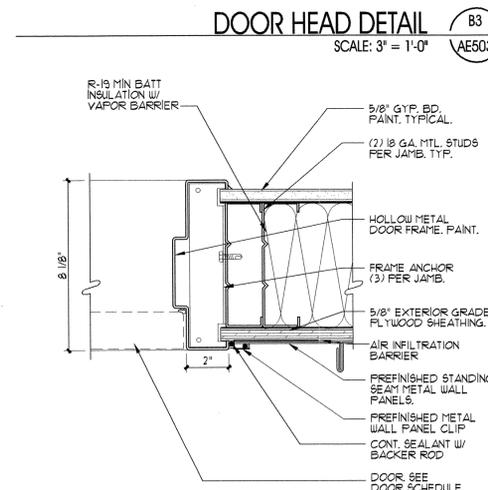
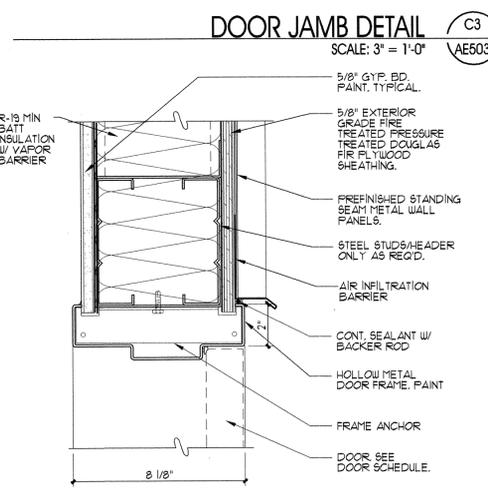
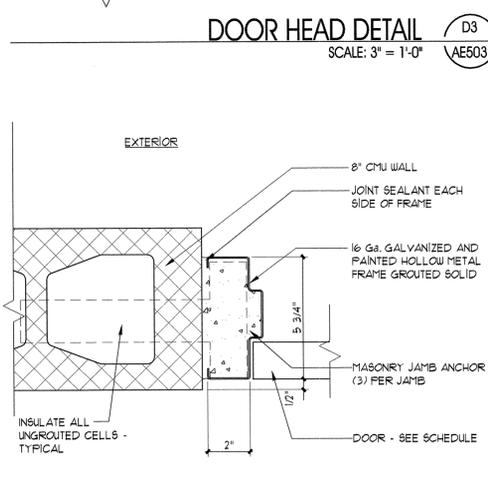
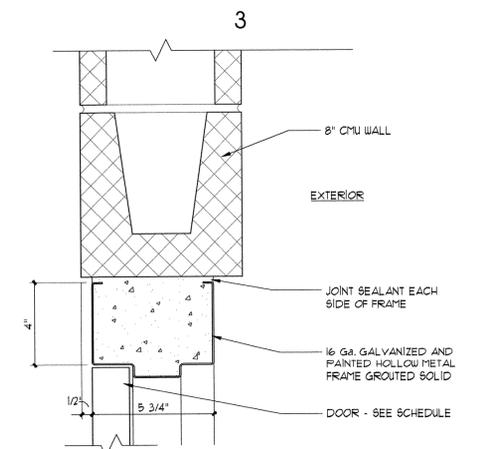
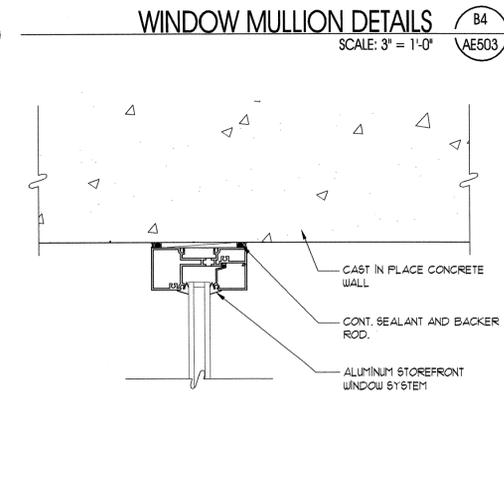
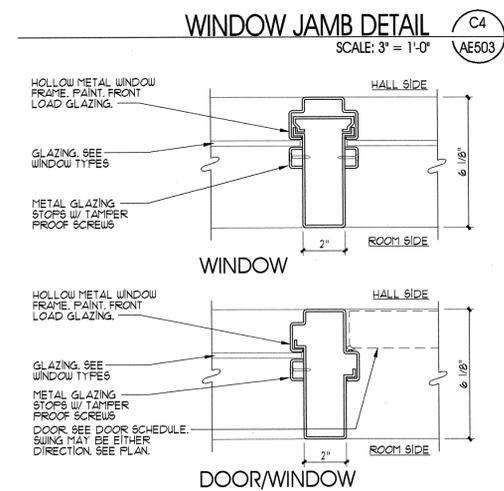
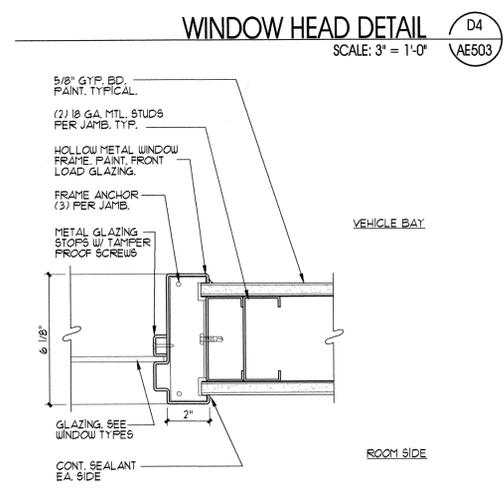
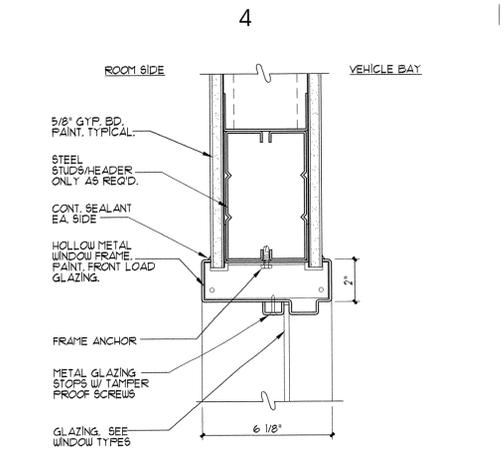
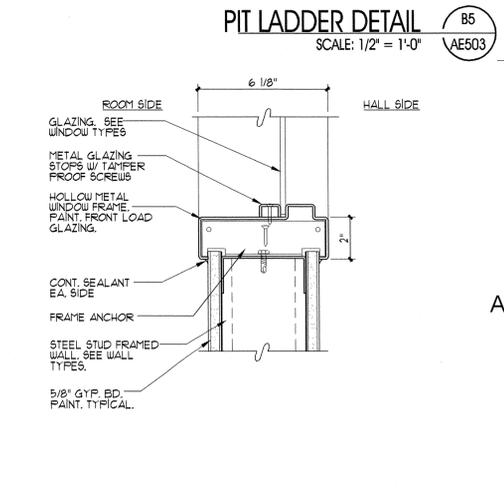
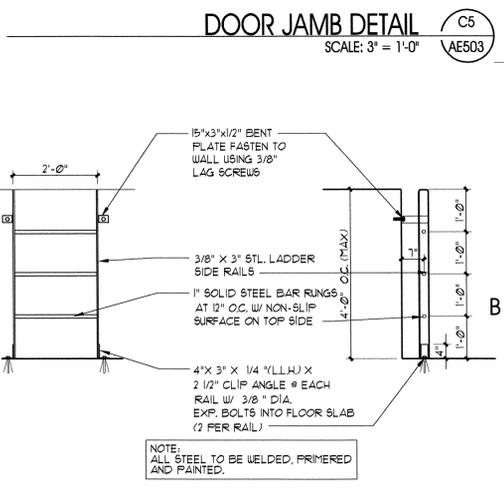
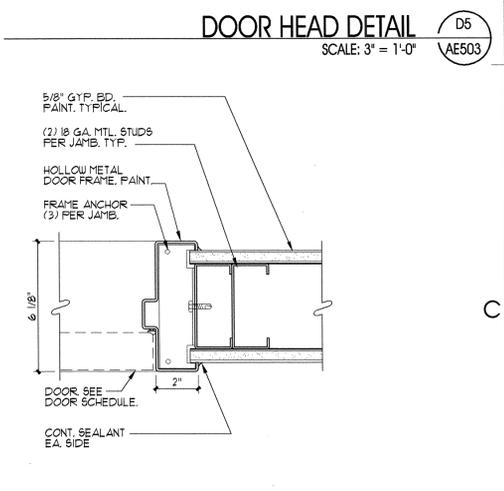
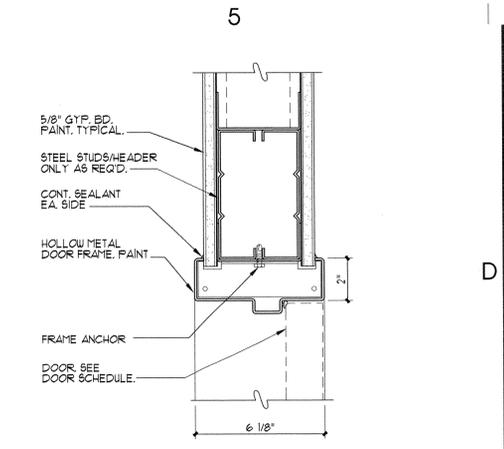
ISSUE DATA

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 DFCM PROJECT # 04042480

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SHEET NUMBER:

AE503



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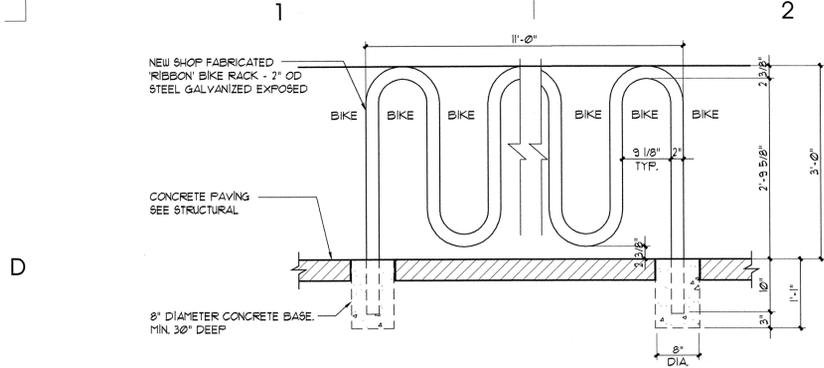
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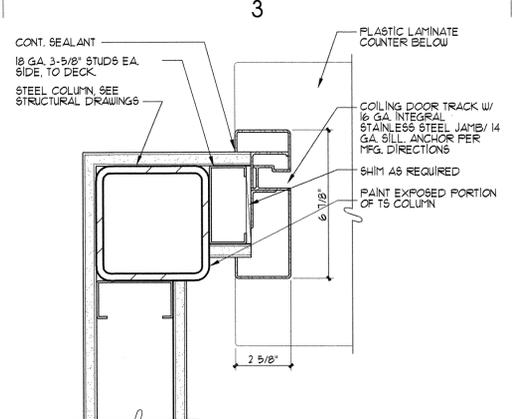
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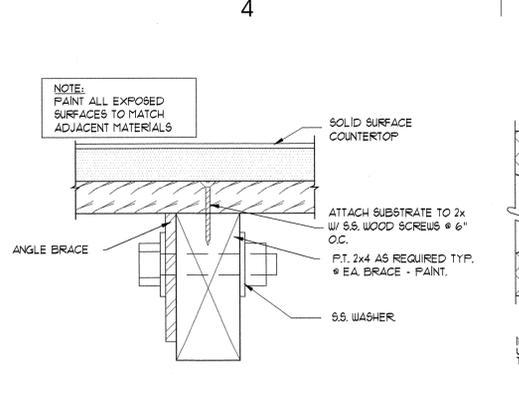
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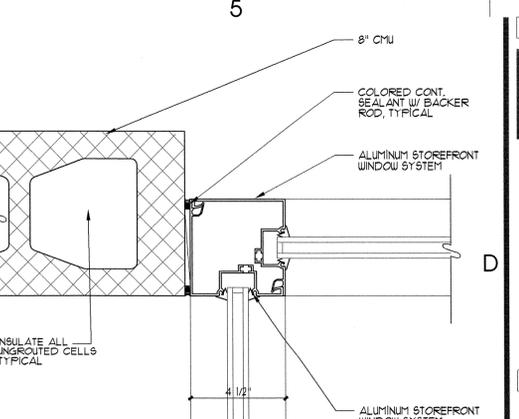
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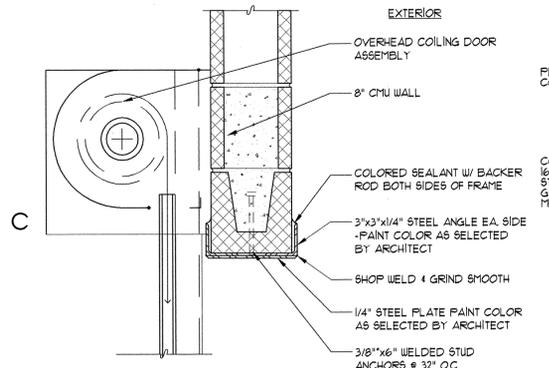
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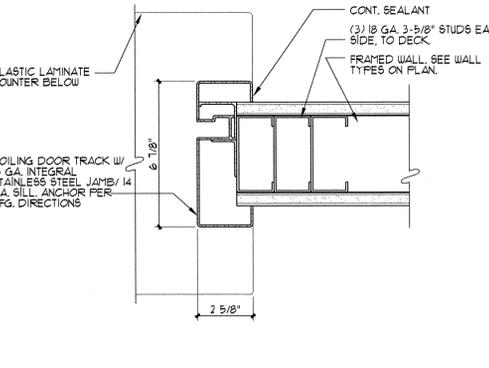
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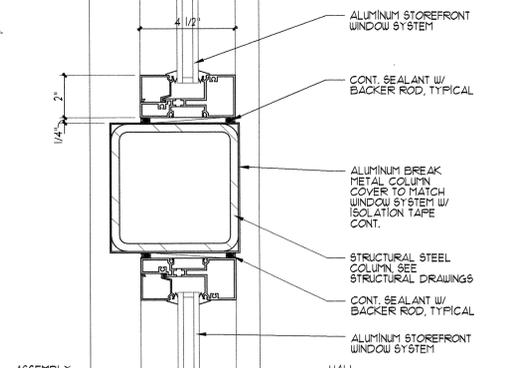
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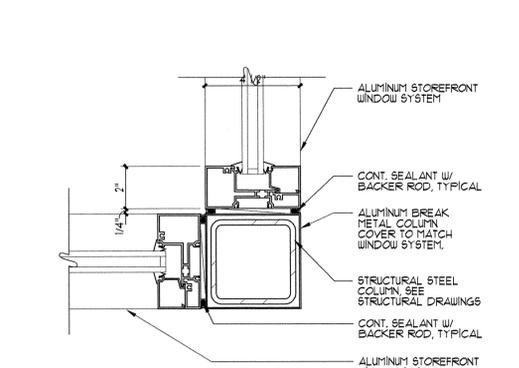
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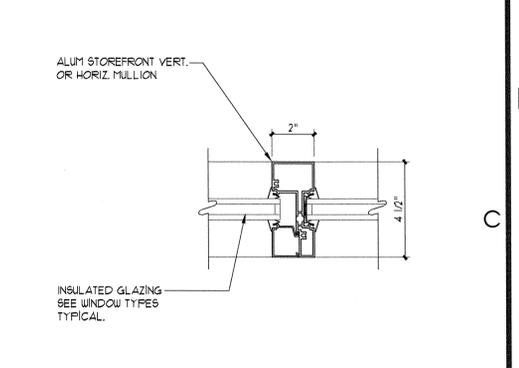
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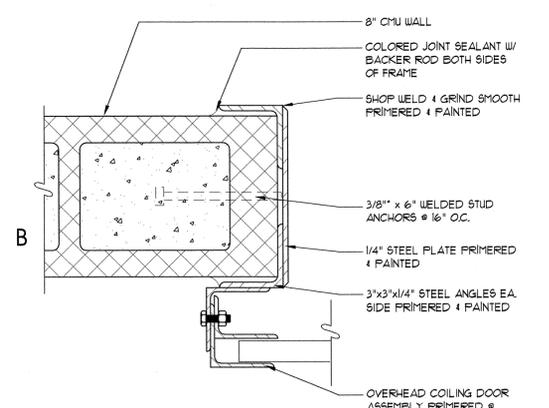
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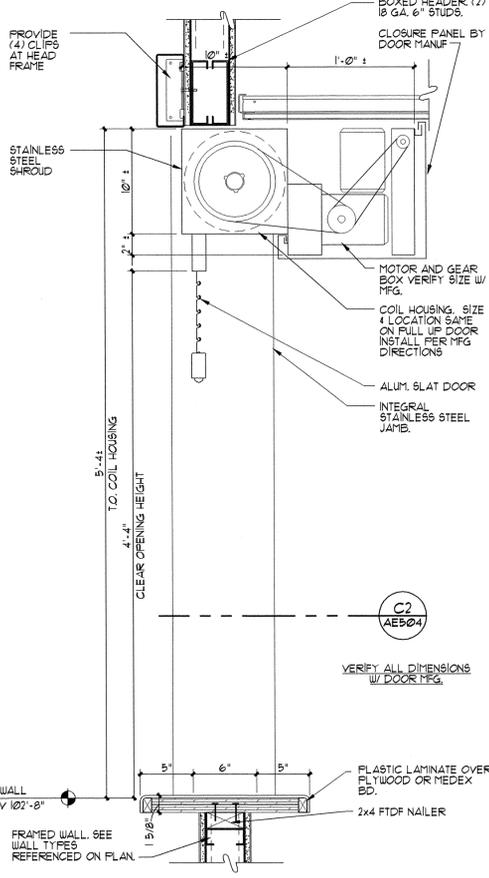
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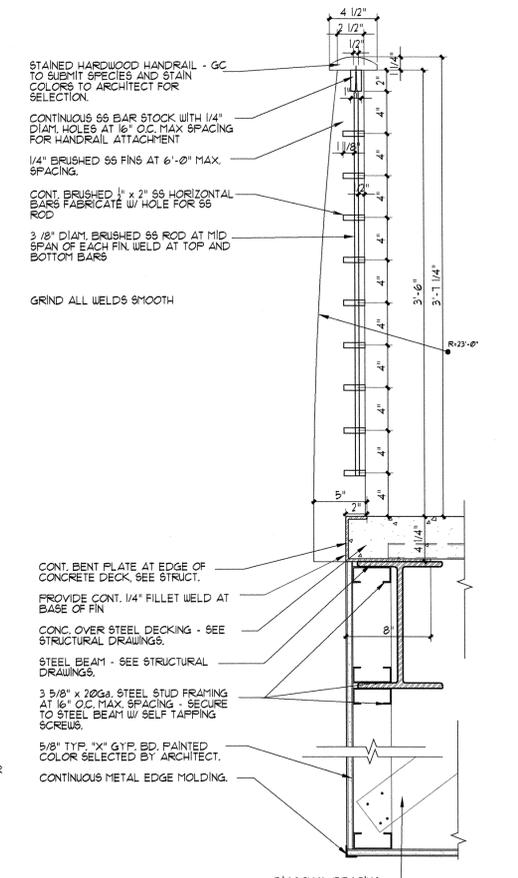
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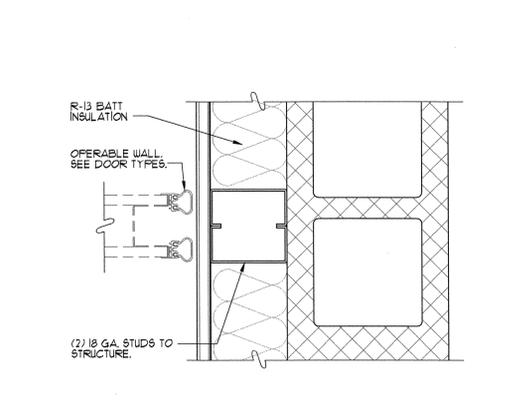
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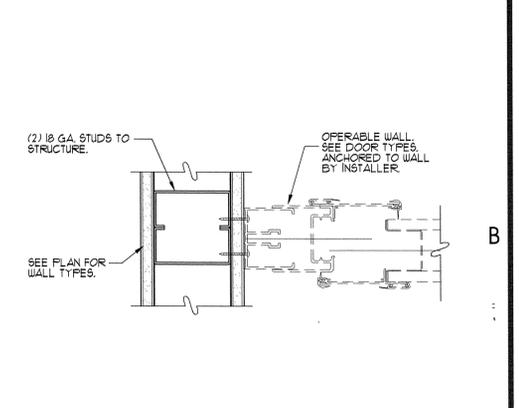
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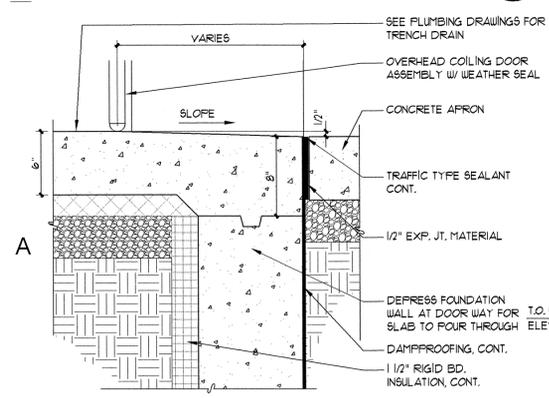
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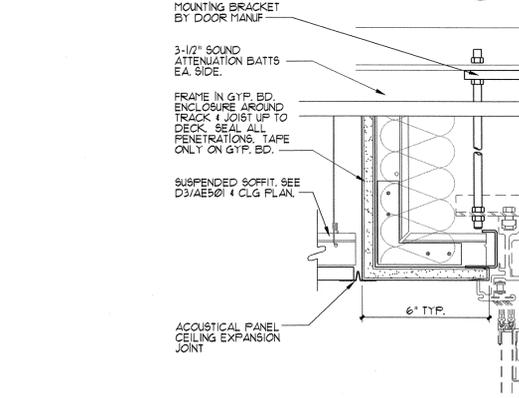
DOOR JAMB DETAIL (B4)
SCALE: 3" = 1'-0" AE504



DOOR JAMB DETAIL (B5)
SCALE: 3" = 1'-0" AE504



DOOR THRESHOLD DETAIL (A1)
SCALE: 1 1/2" = 1'-0" AE504



DOOR HEAD DETAIL (A5)
SCALE: 3" = 1'-0" AE504



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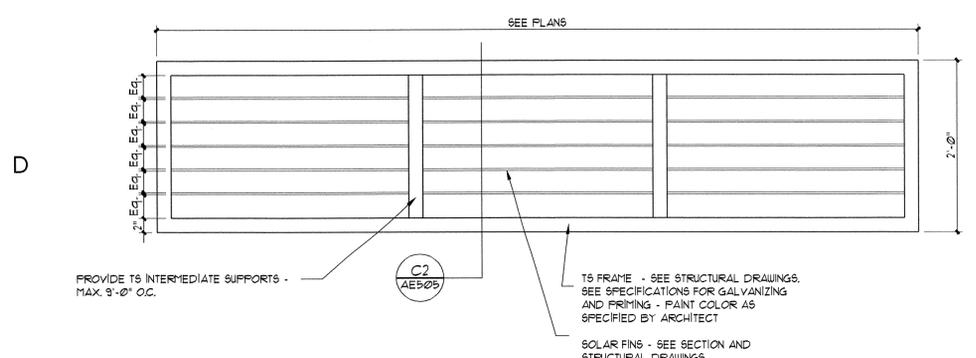
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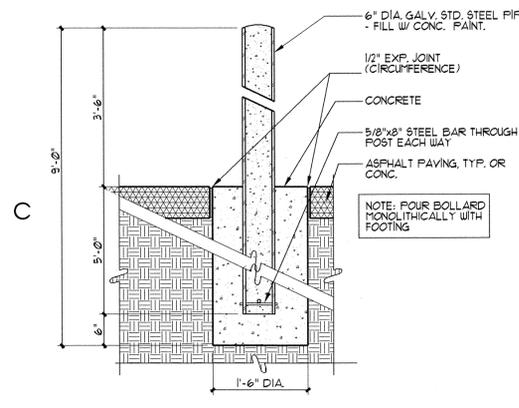
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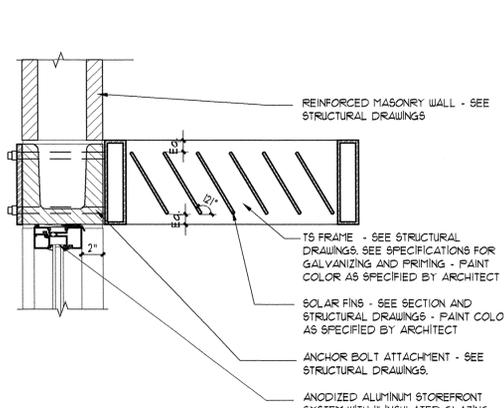
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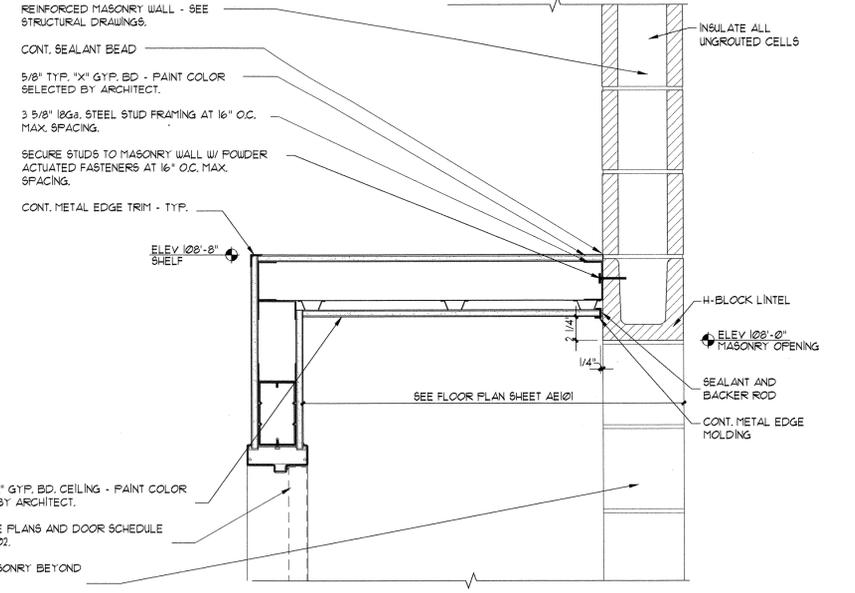
LOUVERED SHADE DEVICE PLAN
SCALE: 1" = 1'-0" (D2) AE505



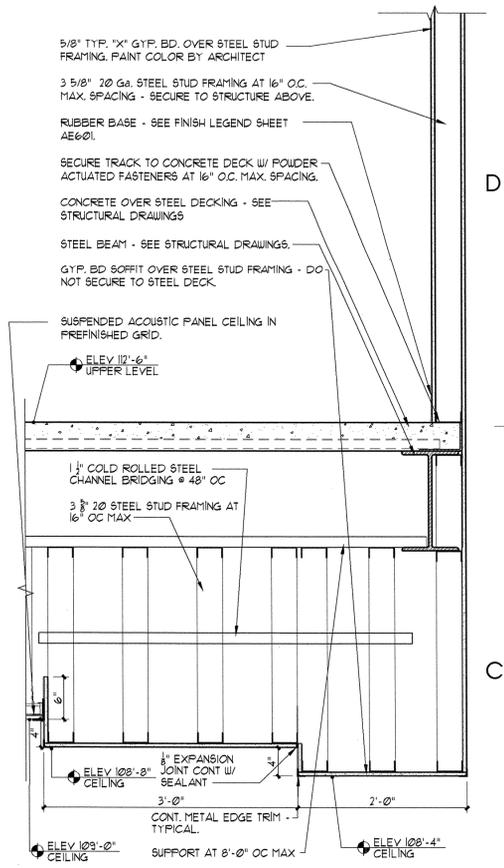
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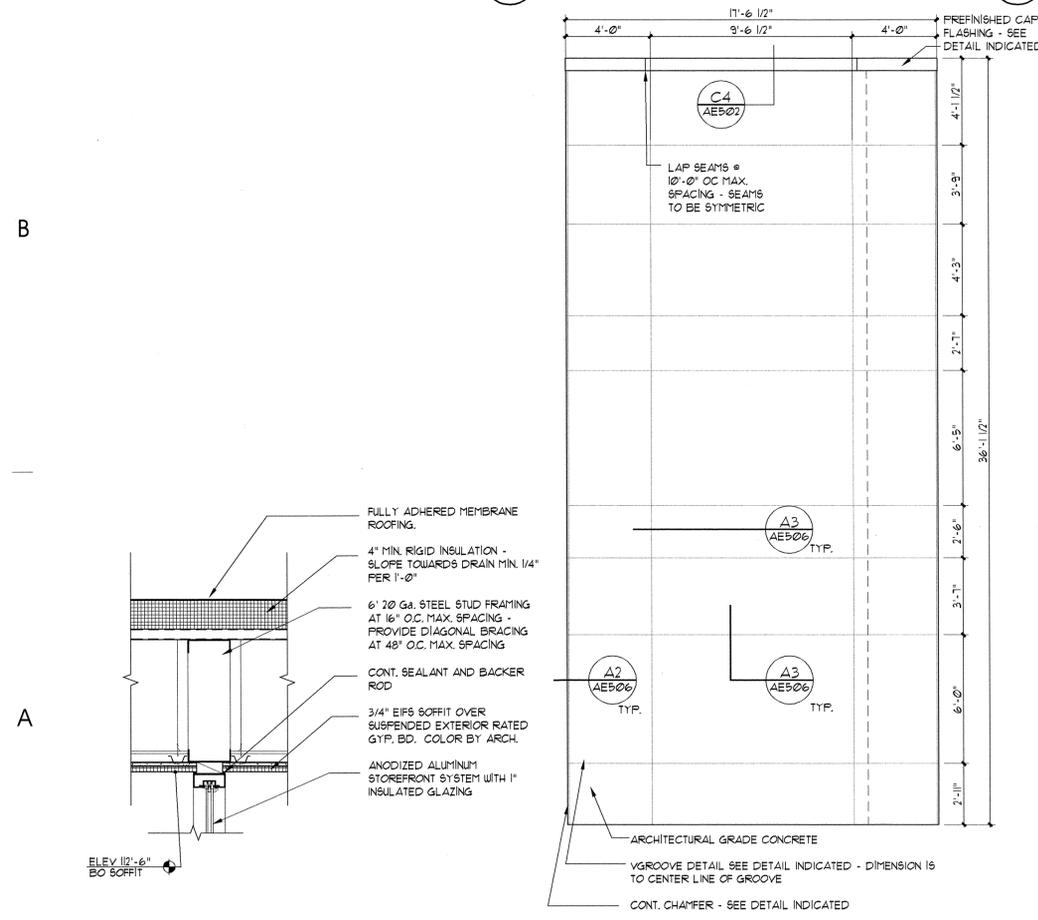
LOUVERED SHADE DEVICE DETAIL
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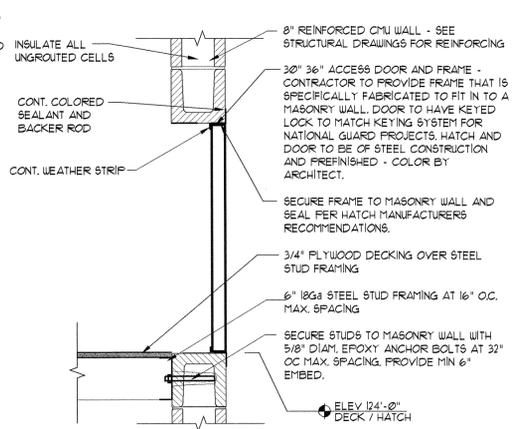
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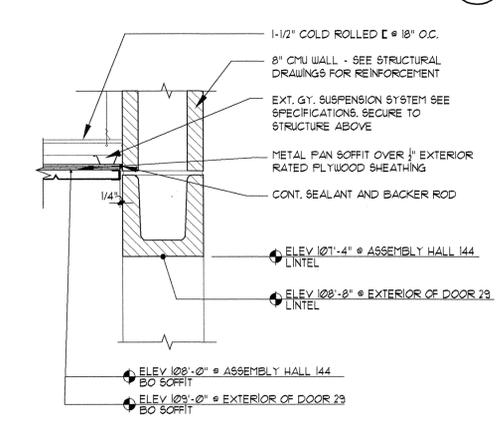
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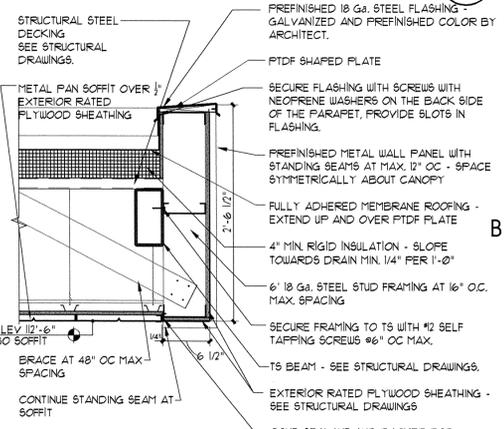
CONC. WALL ELEVATION
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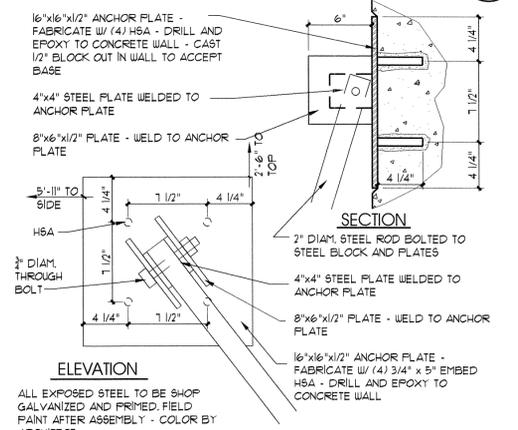
ACCESS DOOR DETAIL
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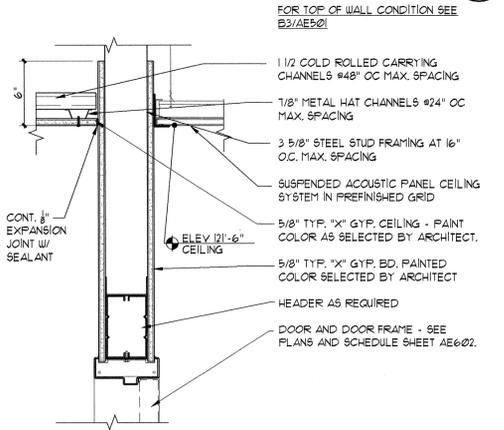
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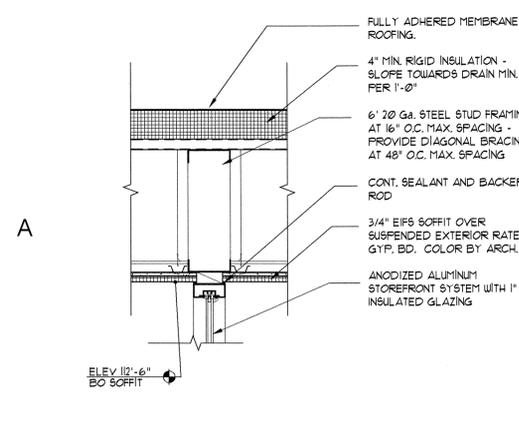
PARAPET DETAIL
SCALE: 1" = 1'-0" (B5) AE505



TIE ROD DETAIL
SCALE: 1 1/2" = 1'-0" (A3) AE505



WINDOW SILL / HEAD DETAIL
SCALE: 1" = 1'-0" (A5) AE505



WINDOW HEAD DETAIL
SCALE: 1" = 1'-0" (A1) AE505



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**UTAH NATIONAL
GUARD 144th
COMPANY
READINESS
CENTER**

CAMP WG WILLIAMS
RIVERTON, UTAH

SHEET NAME:
DETAILS

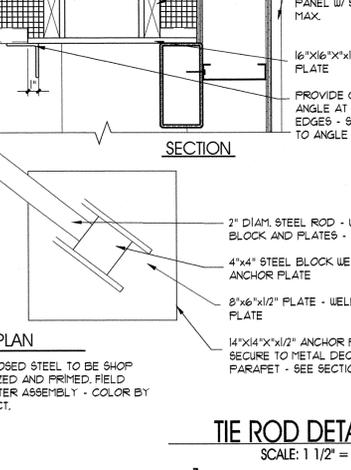
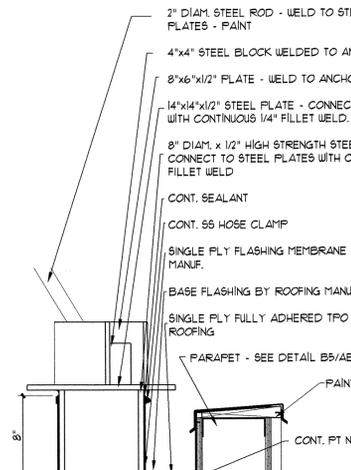
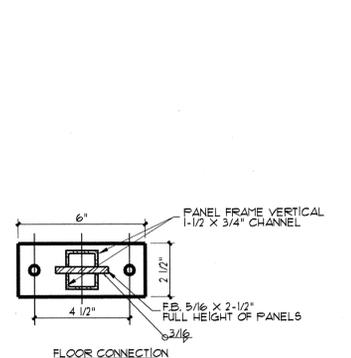
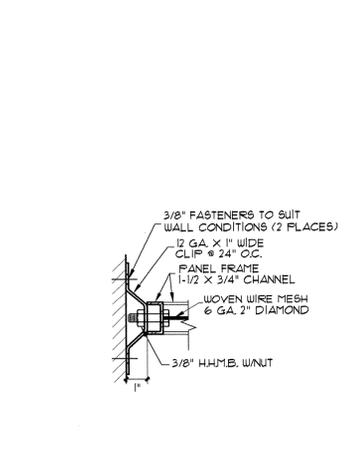
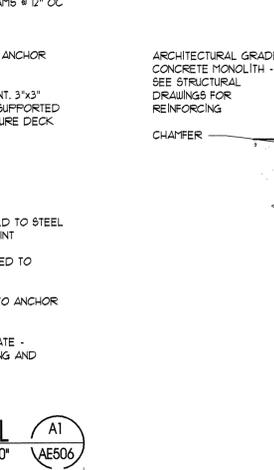
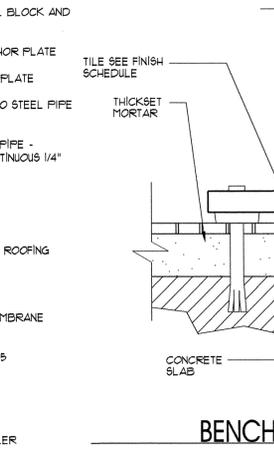
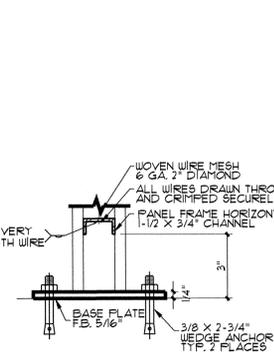
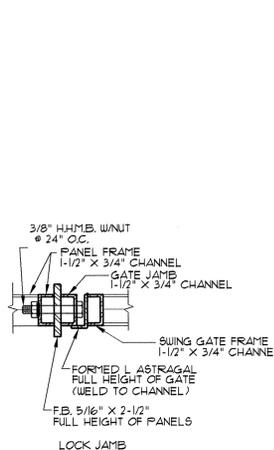
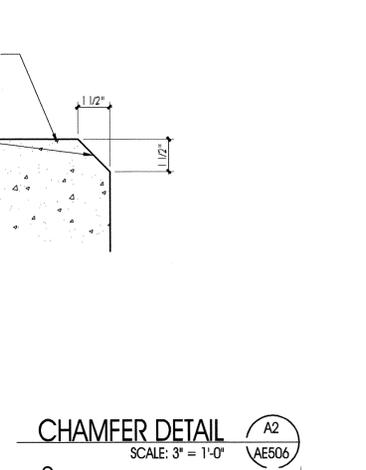
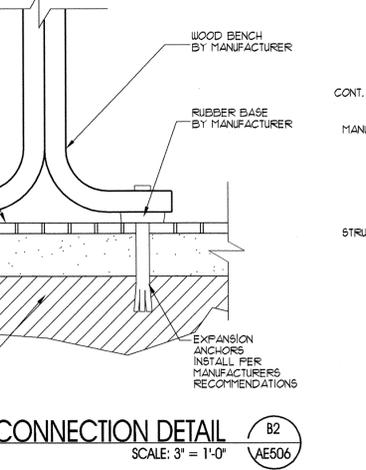
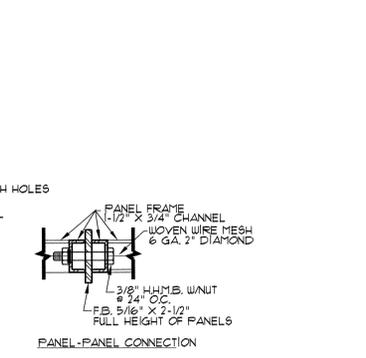
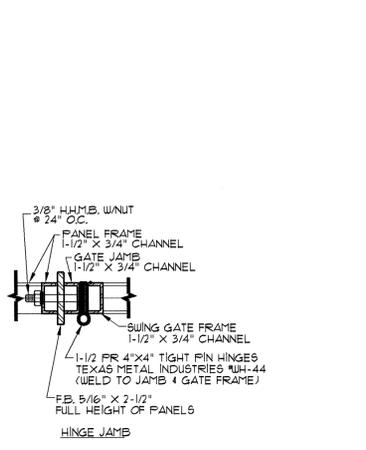
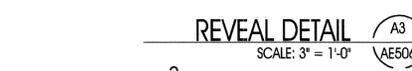
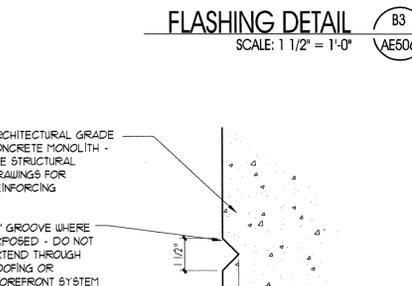
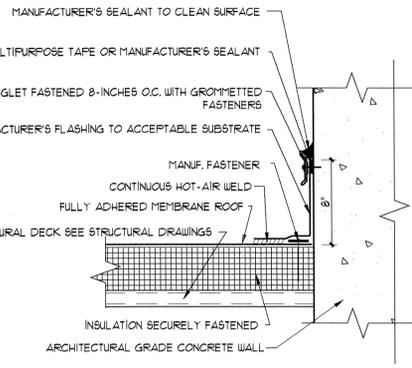
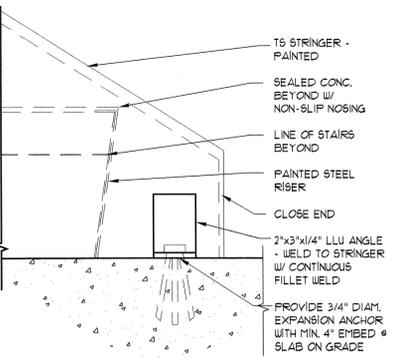
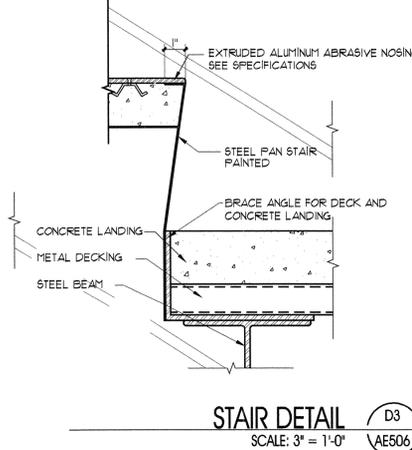
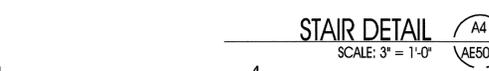
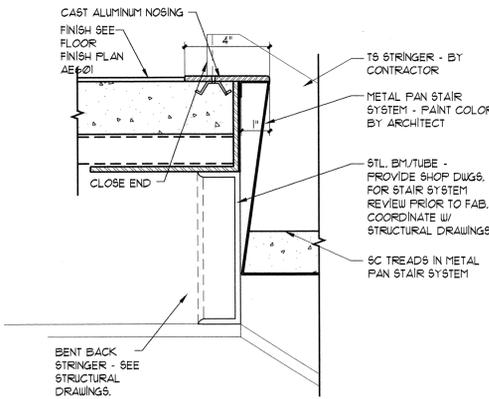
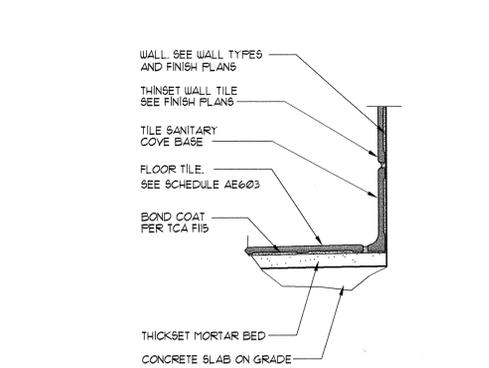
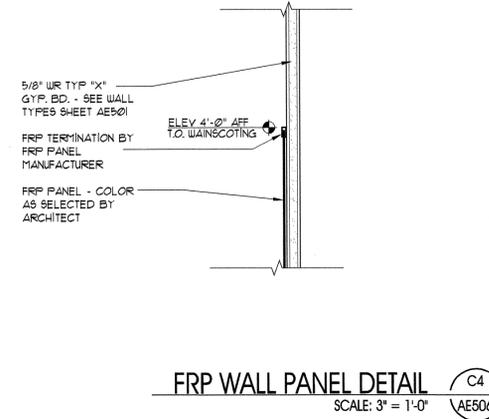
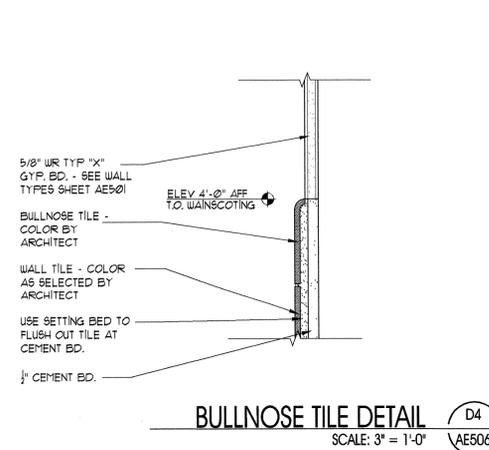
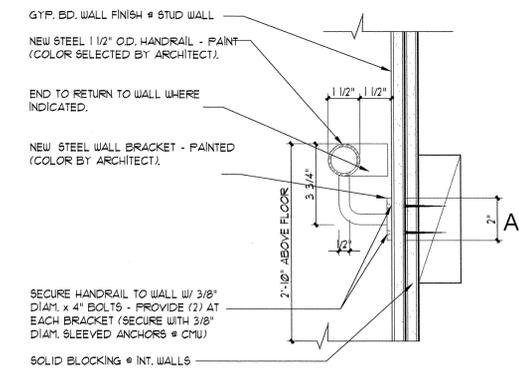
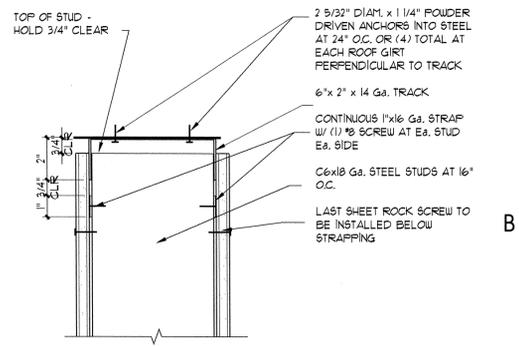
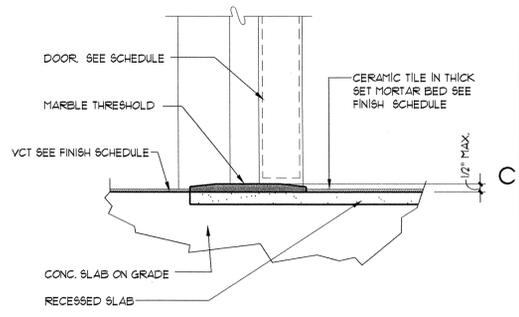
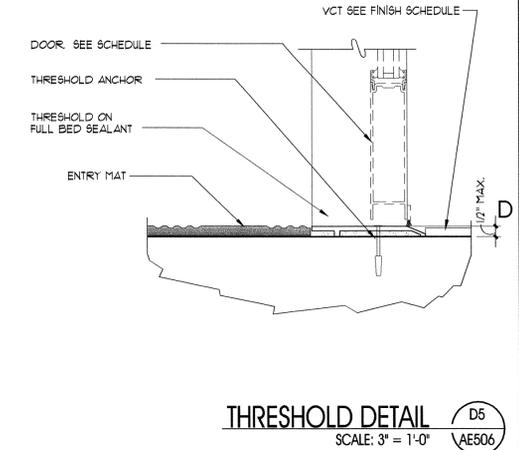
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ISSUE DATE: DEC. 2005
ISSUE TYPE: CONDOCS
DRAWN BY: BJA
CHECKED BY: KRR
CAD FILE NAME: 0470AE501
DFCM PROJECT # 04042480

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SHEET NUMBER:

AE506



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5

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PROJECT DESCRIPTION
**UTAH NATIONAL
GUARD 144th
COMPANY
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CENTER**

CAMP WG WILLIAMS
RIVERTON, UTAH

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REVISIONS		
MARK	DATE	DESCRIPTION

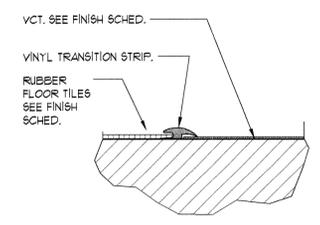
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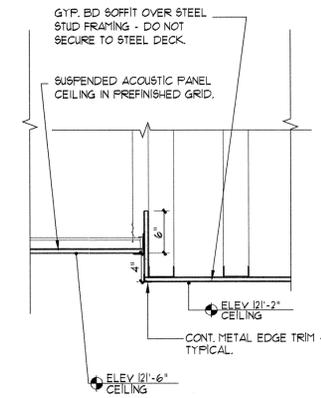
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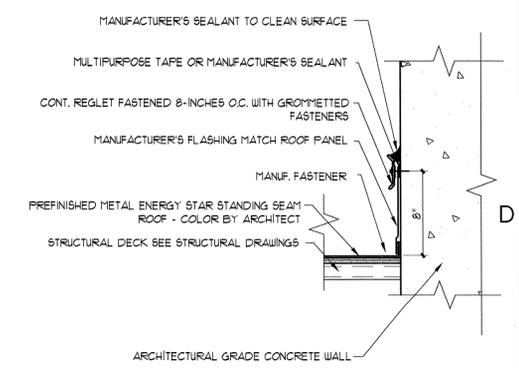
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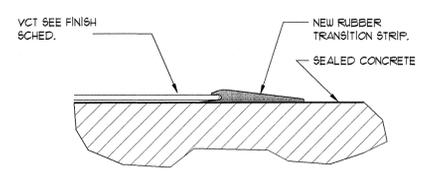
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SCALE: 3" = 1'-0" AE507



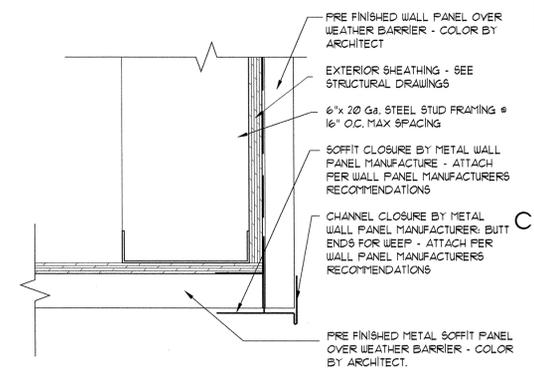
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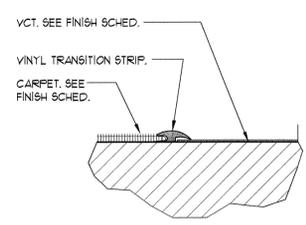
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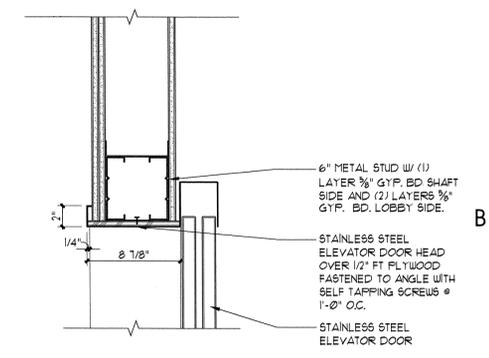
TRANSITION DETAIL C4
SCALE: 3" = 1'-0" AE507



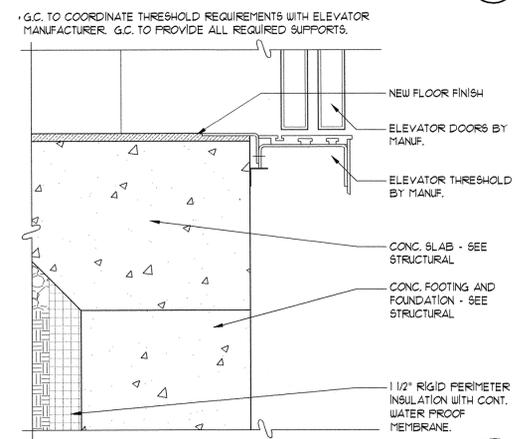
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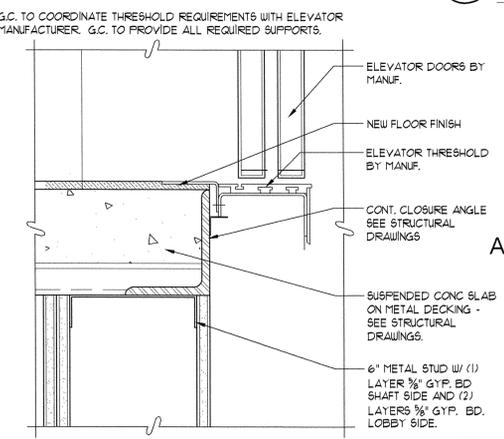
TRANSITION DETAIL B4
SCALE: 3" = 1'-0" AE507



ELEVATOR DOOR HEAD JAMB SIM. B5
SCALE: 1 1/2" = 1'-0" AE507



ELEVATOR DOOR THRESHOLD A4
SCALE: 3" = 1'-0" AE507



ELEVATOR DOOR THRESHOLD A5
SCALE: 3" = 1'-0" AE507

D

C

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A

ROOM FINISH NOTES:

1. PROVIDE FRP PANELS TO HEIGHT OF 4'-0" AFF. AT WET WALLS AND AS SHOWN ON INTERIOR ELEVATIONS.
2. SEE FLOOR FINISH PLANS FOR ADDITIONAL CLARIFICATION OF FINISH EXTENT.
3. CERAMIC WALL TILE (CTW) SHALL BE TO 4'-8" AFF. PAINT WALL FROM TOP OF TILE TO CEILING W/ EPOXY PAINT.
4. GYPSUM BOARD TO BE WATER RESISTANT @ ALL CERAMIC TILE & FRP AREAS. CEMENT BOARD @ SHOWERS
5. ALL RESTROOMS TO RECEIVE EPOXY PAINT.
6. ALL COLORS TO BE SELECTED BY ARCHITECT.
7. ALL FLOOR TILE TO BE SLIP RESISTANT.
8. WALL TILE PATTERN TO CONTINUE AND ENCOMPASS ALL WALLS IN ROOMS INDICATED.

SIGN NOTES:

- PROVIDE & INSTALL SIGNS FOR NEW CONSTRUCTION.
- A. ALL SIGNAGE SHALL MEET ANSI REQUIREMENTS, INCLUDING (BUT NOT LIMITED TO):
 - B. CHARACTERS MUST CONTRAST FROM BACKGROUND BY AT LEAST 10%.
 - C. BRAILLE CHARACTERS MUST MEET STANDARD DIMENSIONS ACCORDING TO ADAAG A430.4. GRADE 2 BRAILLE.
 - D. CHARACTERS AND BACKGROUND SHALL BE NON-GLARE.
 - E. SIGNS SHALL BE INSTALLED ON THE WALL ADJACENT TO THE LATCH SIDE OF THE DOOR INCLUDING DOUBLE LEAF DOORS. IN THE EVENT THIS IS NOT POSSIBLE IN CERTAIN CONDITIONS, NOTIFY ARCHITECT AND WAIT FOR INSTRUCTIONS.
 - F. SUPPLY ONE SIGN FOR EACH DOOR MINIMUM. 5/4 SIGNS MIN AT BLDG.
 - G. ROOM NAME AND NUMBER SHALL BE LISTED ON SIGN AS PER SPECIFICATIONS.
 - H. SUBMIT SAMPLE, COLOR & LAYOUT OPTIONS AND SIGN SCHEDULE FOR REVIEW AND APPROVAL.

SIGN SCHEDULE:

1. PROVIDE AND INSTALL ONE SIGN FOR EVERY DOOR AS FOLLOWS.
 - SIGNS A & B - (2) FOR EACH EXISTING AND DESIGNATED MENS AND WOMENS RESTROOMS. INSTALL ONE AT HALL SIDE OF VESTIBULE WALL AND (1) AT LATCH SIDE OF RESTROOM DOOR.
 - SIGN E - INSTALL AT ALL OTHER ROOMS NOT LISTED ABOVE. (1) AT EACH DOOR W/O.
 2. COLORS: BACKGROUND AND RAISED LETTER COLOR FIELD BLACK LETTERS AND SYMBOLS WHITE
-

INTERIOR FINISH LEGEND

SYMBOL	FINISH	NOTE
FLOOR		
EC	EXPOSED CONCRETE, SEALED	
VCT-1	VINYL COMPOSITION TILE	ARMSTRONG ARTEFFECTS COLOR BY ARCHITECT
VCT-2	VINYL COMPOSITION TILE	ARMSTRONG ARTEFFECTS COLOR BY ARCHITECT
CP-1	CARPET TILES WITH INTEGRAL PAD	INTERFACE KAMALA (23 OZ) COLOR BY ARCHITECT
CF1	CERAMIC FLOOR TILE 2"x2"	DAL TILE OR AMERICAN OLEAN COLOR BY ARCH.
WM	WALK OFF MATT	MAPEI COLOR BY ARCHITECT
RF1	RUBBER FLOOR TILES	WATERHOG CLASSIC TILE FILE HT. @ 1/4" COLOR CHARCOAL COLOR AS SELECTED BY ARCHITECT
BASE		
RB	RUBBER BASE	ROPPE BLACK/BROWN P-193
CTB	CERAMIC TILE BASE WITH SANITARY COVE	TO MATCH CWT-1
	GROUT	MAPEI WHITE
WALLS		
CWT-1	CERAMIC WALL TILE 4"x4" FRIGE GROUP 2 SPECKLE	UNITED STATES CERAMIC TILE
	GROUT	MAPEI WHITE
CWT-2	CERAMIC WALL TILE 4"x4" FRIGE GROUP 2 BRIGHT AND MATTE	UNITED STATES CERAMIC TILE
EMP	EXPOSED MASONRY PAINTED	
EMS	EXPOSED MASONRY SEALED	
CEILING		
MTL	METAL SOFFIT (FACTORY FINISH)	COLOR BY ARCHITECT
ACT-1	ACOUSTICAL PANEL-1, LAY-IN (2'x2')	ARMSTRONG DUNE W/ REGULAR EDGE
EXP	EXPOSED STRUCTURE	PAINT P-5
GCI	GYPSUM BOARD, PAINTED	PAINT P-4
EFS	EIPS SOFFIT	COLOR BY ARCHITECT
MISC.		
	INTERIOR STEEL GUARDRAIL/HANDRAIL	BRUSHED STAINLESS STEEL
	INTERIOR GUARDRAIL WOOD CAP	CHERRY WOOD STAIN AS SELECTED BY ARCHITECT
FL-1	PLASTIC LAMINATE MILLWORK UPPER AND BASE CABINETS	COLOR AS SELECTED BY ARCHITECT
FL-2	PLASTIC LAMINATE COUNTERS	COLOR AS SELECTED BY ARCHITECT
	SOLID SURFACE COUNTERS (RESTROOMS)	COLOR AS SELECTED BY ARCHITECT
	WOOD AT DOORS	CHERRY WOOD STAIN AS SELECTED BY ARCHITECT
	PHENOLIC TOILET PARTITIONS	COLOR AS SELECTED BY ARCHITECT
	MINI BLINDS	COLOR AS SELECTED BY ARCHITECT
	BLACKOUT SHADES	COLOR AS SELECTED BY ARCHITECT

ROOM NAMES AND NUMBERS FOR INTERIOR SIGNAGE:

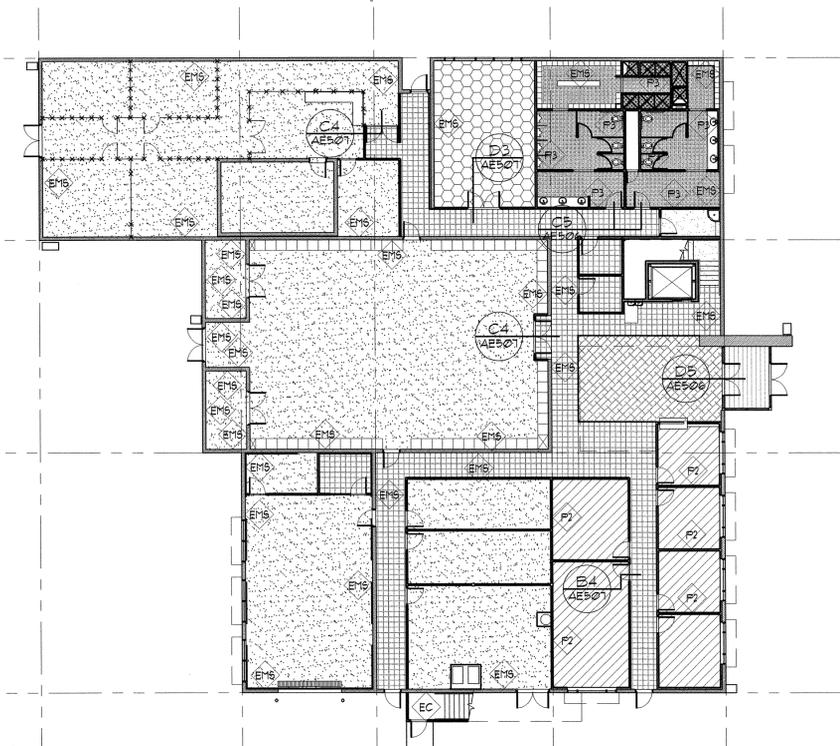
OFFICE	104	BREAK	201
OFFICE	105	WORK AREA	202
OFFICE	106	TOILET ROOM	203
OFFICE	107	STORAGE	204
CONFERENCE	108	STORAGE	205
DISTRIBUTION	109	CLASSROOM	206
TELECOM./DATA	110	CLASSROOM	207
ELECTRICAL	111	LIBRARY	208
MECHANICAL	112	TOILET ROOM	210
VEHICLE TRAINING BAY	113		
STORAGE	113 A		
OFFICE	113 B		
ASSEMBLY HALL	114		
UNIT STORAGE	115		
VAULT	115 A		
STORAGE OFFICE	115 B		
FITNESS	116		
MEN'S LOCKER	117		
WOMEN'S LOCKER	118		
JANITOR	119		
STORAGE	120		
ELEVATOR EQUIPMENT	121		

SYMBOL	FINISH	NOTE
PAINT		
P-1	PAINT (WALLS) FIELD	COLOR AS SELECTED BY ARCHITECT
P-2	PAINT (WALLS) ACCENT	COLOR AS SELECTED BY ARCHITECT
P-3	PAINT (WALLS) LOCKERS/RESTROOMS	COLOR AS SELECTED BY ARCHITECT
P-4	PAINT (GYP. BD. CEILINGS)	COLOR AS SELECTED BY ARCHITECT
P-5	PAINT (EXPOSED UNDERSIDE OF METAL DECKING)	COLOR AS SELECTED BY ARCHITECT
P-6	PAINT (HM FRAMES) INTERIOR INTERIOR RAILINGS AT STAIRS	COLOR AS SELECTED BY ARCHITECT
P-7	PAINT (HM FRAMES) EXTERIOR	COLOR AS SELECTED BY ARCHITECT
P-8	HOLLOW METAL DOORS INTERIOR SURFACES	COLOR AS SELECTED BY ARCHITECT
P-9	HOLLOW METAL DOORS EXTERIOR SURFACES	COLOR AS SELECTED BY ARCHITECT
P-10	EXPOSED STEEL COLUMNS/BEAMS/JOISTS/STRUCTURE	COLOR AS SELECTED BY ARCHITECT
EXTERIOR FINISHES		
	CMU COLOR #1	SMOOTH FACED COLOR AS SELECTED BY ARCHITECT
	CMU COLOR #2	SMOOTH FACED COLOR AS SELECTED BY ARCHITECT
	STANDING SEAM METAL ROOF	ENERGY STAR COLOR AS SELECTED BY ARCHITECT
	MEMBRANE ROOFING	SEE SPECIFICATIONS
	ALUMINUM STOREFRONT SYSTEM	DARK BRONZE
	INSULATED GLASS	AFG BRONZE CLEAR
	ARCHITECTURAL CONCRETE	NATURAL
	METAL COPING	SEE SPECIFICATIONS COLOR AS SELECTED BY ARCHITECT
	PRECAST CONCRETE SILLS	SEE SPECIFICATIONS COLOR AS SELECTED BY ARCHITECT

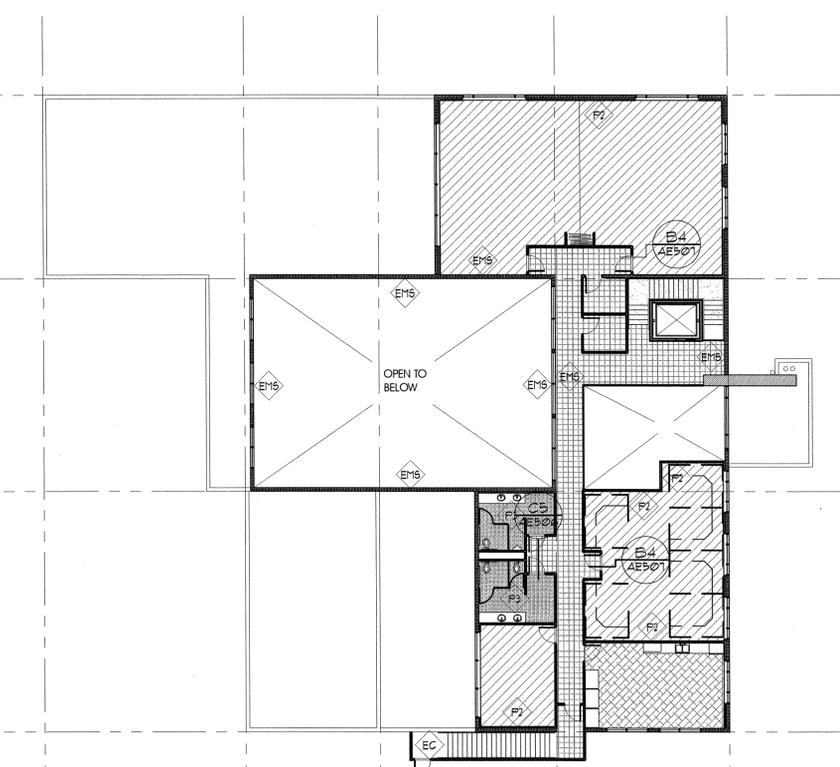
FLOORING GENERAL NOTES AND LEGEND:

FOR SHEET AE601 ONLY.

- ALL WALL COLORS P-1 UNLESS NOTED OTHERWISE.
- PROVIDE BLACK OUT SHADES IN CLASSROOMS 206 AND 207
- PROVIDE MINI BLINDS AT ALL EXTERIOR WINDOWS



MAIN LEVEL FLOOR FINISH AND PAINT PLAN B5 AE601
SCALE: 1/16" = 1'-0"



UPPER LEVEL FLOOR FINISH AND PAINT PLAN A5 AE601
SCALE: 1/16" = 1'-0"

ARCHITECTA/JC PROJECT #0470

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Internet: <http://www.dfcm.utah.gov>

PROJECT DESCRIPTION

**UTAH NATIONAL
GUARD 144th
COMPANY
READINESS
CENTER**

CAMP WG WILLIAMS
RIVERTON, UTAH

SHEET NAME:

**FLOOR FINISH
PLANS
LEGEND AND
NOTES**

REVISIONS

MARK	DATE	DESCRIPTION

ISSUE DATA

ISSUE DATE: DEC. 2005
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SHEET NUMBER:

AE601

SHEET 33 OF

GROUP 13			
6 EA.	HINGE	5BB1 4.5x4.5	652 HB IVES
1 EA.	MULLION	KR4954	689 VON DUFRIN
1 EA.	PANIC HARDWARE	98L 996L	626 VON DUFRIN
1 EA.	RIM CYLINDER	IE12-RP	626 BEST
1 EA.	MTSE CYL. STRIGHT CAM	IE14-C4	626 BEST
1 EA.	SURFACE CLOSER	4111 EDA	689 LCN
1 EA.	KICKPLATE	8400 10" x 2" LDW	630 HB IVES
1 EA.	WALL STOP	US407CCV	630 HB IVES
2 EA.	SILENCER	5R64	GRY NATIONAL GUARD

GROUP 3			
2 EA.	HINGE	5BB1 4.5x4.5 NRP	630 HB IVES
1 EA.	MULLION	KR4954	689 VON DUFRIN
1 EA.	PANIC HARDWARE	98L 996L	626 VON DUFRIN
1 EA.	RIM CYLINDER	IE12-RP	626 BEST
1 EA.	MTSE CYL. STRIGHT CAM	IE14-C4	626 BEST
1 EA.	SURFACE CLOSER	4111 AVB CUSH	689 LCN
1 EA.	SECURITY FLOOR STOP	F9185	BLK HB IVES
1 SET	SEALS	7005A	AL NATIONAL GUARD
1 EA.	DOOR SWEEP	95 WH	AL NATIONAL GUARD
1 EA.	THRESHOLD	896V	AL NATIONAL GUARD

GROUP 4			
2 EA.	HINGE	5BB1 4.5x4.5 NRP	630 HB IVES
2 EA.	MANUAL FLUSH BOLT	5BB1 4.5x4.5 NRP	626 HB IVES
1 EA.	STOREROOM LOCK	93KTD 1BC 53	626 BEST
1 EA.	LOCK GUARD	LG1	630 HB IVES
1 SET	ASTRAGAL	9115A	AL NATIONAL GUARD
2 EA.	SURFACE CLOSER	4111 AVB EDA	689 LCN
2 EA.	C W	8400 10" x 2" LDW	630 HB IVES
1 EA.	SECURITY FLOOR STOP	F9185	BLK HB IVES
1 SET	SMOKE SEALS	7005A	AL NATIONAL GUARD
1 EA.	DOOR SWEEP	95 WH	AL NATIONAL GUARD
1 EA.	THRESHOLD	896V	AL NATIONAL GUARD

GROUP 5			
3 EA.	HINGE	5BB1 4.5x4.5	630 HB IVES
1 EA.	ENTRANCE LOCK	93K1AB 1BC 53	626 BEST
1 EA.	WALL STOP	US407CCV	630 HB IVES
3 EA.	SILENCER	5R64	GRY HB IVES

GROUP 6			
3 EA.	HINGE	5BB1 4.5x4.5	652 HB IVES
1 EA.	CLASSROOM LOCK	93KTR 1BC 53	626 BEST
1 EA.	SURFACE CLOSER	4041	689 LCN
1 EA.	WALL STOP	US407CCV	630 HB IVES
1 SET	SEALS	5020B	BRN NATIONAL GUARD

GROUP 7			
3 EA.	HINGE	5BB1 4.5x4.5	652 HB IVES
1 EA.	CLASSROOM LOCK	93KTR 1BC 53	626 BEST
1 EA.	SURFACE CLOSER	4041	689 LCN
1 EA.	WALL STOP	US407CCV	630 HB IVES
1 SET	SEALS	5020B	BRN NATIONAL GUARD

GROUP 8			
3 EA.	HINGE	5BB1 4.5x4.5	652 HB IVES
1 EA.	STOREROOM LOCK	93KTD 1BC 53	626 BEST
1 EA.	WALL STOP	US407CCV	630 HB IVES
3 EA.	SILENCER	5R64	GRY HB IVES

GROUP 9			
3 EA.	HINGE	5BB1 4.5x4.5	652 HB IVES
1 EA.	PANIC HARDWARE	98L 996L	626 VON DUFRIN
1 EA.	RIM CYLINDER	IE12-RP	626 BEST
1 EA.	SURFACE CLOSER	4111 AVB CUSH	689 LCN
1 EA.	WALL STOP	US407CCV	630 HB IVES
3 EA.	SILENCER	5R64	GRY HB IVES

GROUP 10			
2 EA.	HINGE	5BB1 4.5x4.5 NRP	652 HB IVES
1 EA.	PUSH PLATE	2200 4"x16"	630 HB IVES
1 EA.	PULL PLATE	2200-0 4"x16"	630 HB IVES
1 EA.	SURFACE CLOSER	4010	689 LCN
1 EA.	MOP PLATE	8400 5" x 2" LDW	630 HB IVES
1 EA.	WALL STOP	US407CCV	630 HB IVES
3 EA.	SILENCER	5R64	GRY NATIONAL GUARD

GROUP 11			
6 EA.	HINGE	5BB1 4.5x4.5	652 HB IVES
1 SET	CONST. LATCHING BOLT	FB61P	630 HB IVES
1 EA.	DUST PROOF STRIKE	DP2	626 HB IVES
1 EA.	ENTRANCE LOCK	93K1AB 1BC 53	626 BEST
1 EA.	SURFACE CLOSER	4010 H	689 LCN
2 EA.	KICKPLATE	8400 10" x 2" LDW	630 HB IVES
1 EA.	SILENCER	5R64	GREY HB IVES

GROUP 12			
3 EA.	HINGE	5BB1 4.5x4.5	652 HB IVES
1 SET	CONST. LATCHING BOLT	FB61P	630 HB IVES
1 EA.	DUST PROOF STRIKE	DP2	626 HB IVES
1 EA.	STOREROOM LOCK	93KTD 1BC 53	626 BEST
1 EA.	SILENCER	5R64	GREY HB IVES

DOOR SCHEDULE

DOOR NO.	DOOR SIZE	FIRE RATING (MIN)	DOOR			FRAME		SEE DOOR TYPES FOR TYPICAL DETAILS; SEE BELOW FOR NON-TYP. DETAILS				DOOR NOTES	
			TYPE	MATERIAL	FINISH	TYPE	FINISH	HEAD	JAMB	JAMB	THRESHOLD		HARDWARE
MAIN LEVEL													
1	(2) 3'-0" x 7'-0"	-	F	AL	AN	-	AN	-	-	-	-	1	SEE WINDOW TYPE E
2	(2) 3'-0" x 7'-0"	-	F	AL	AN	-	AN	-	-	-	-	1	SEE WINDOW TYPE E
3	3'-0" x 7'-0"	-	B	WD	ST	1	FT	-	-	-	-	5	SEE WINDOW TYPE G
4	3'-0" x 7'-0"	-	B	WD	ST	1	FT	-	-	-	-	5	
5	3'-0" x 7'-0"	-	B	WD	ST	1	FT	-	-	-	-	5	
6	3'-0" x 7'-0"	-	B	WD	ST	1	FT	-	-	-	-	5	
7	3'-0" x 7'-0"	-	D	HM	FT	3	FT	-	-	-	-	2	
8	3'-0" x 7'-0"	-	A	WD	ST	1	FT	-	-	-	-	5	
9	3'-0" x 7'-0"	-	A	WD	ST	1	FT	-	-	-	-	5	
10	(2) 3'-0" x 7'-0"	1 HR	E	HM	FT	4	FT	-	-	-	-	5	
11	3'-0" x 7'-0"	-	D	HM	FT	1	FT	-	-	-	-	2	
12	3'-0" x 7'-0"	-	D	HM	FT	3	FT	-	-	-	-	2	
13	3'-0" x 7'-0"	-	B	WD	ST	1	FT	-	-	-	-	1	
14	3'-0" x 7'-0"	-	B	WD	ST	1	FT	-	-	-	-	1	
15	3'-0" x 7'-0"	-	B	WD	ST	1	FT	-	-	-	-	1	
16	3'-0" x 7'-0"	-	A	WD	ST	3	FT	-	-	-	-	9	
17	3'-0" x 7'-0"	-	B	WD	ST	3	FT	-	-	-	-	6	
18	3'-0" x 7'-0"	-	A	WD	ST	-	FT	-	-	-	-	5	SEE WINDOW TYPE G
19	3'-0" x 7'-0"	-	A	WD	ST	1	FT	-	-	-	-	5	
20	12'-0" x 10'-0"	-	H	MTL	FT	5	FT	-	-	-	-	-	
21	(2) 3'-0" x 7'-0"	-	C	WD	ST	4	FT	-	-	-	-	12	
22	(2) 3'-0" x 7'-0"	-	E	HM	FT	4	FT	-	-	-	-	3	
23	(2) 3'-0" x 7'-0"	-	C	WD	ST	4	FT	-	-	-	-	12	
24	3'-0" x 7'-0"	-	E	HM	FT	4	FT	-	-	-	-	4	
25	3'-0" x 7'-0"	-	M	-	-	6	FT	CLASS 5 VAULT DOOR W/O GATE	-	-	-	-	
26	3'-0" x 7'-0"	-	B	WD	ST	1	FT	-	-	-	-	5	
27	3'-0" x 7'-0"	-	K	WD	ST	3	FT	-	-	-	-	9	
28	(2) 3'-0" x 7'-0"	-	C	WD	ST	2	FT	-	-	-	-	11	(1) LEAF 180 SWING
29	3'-0" x 7'-0"	-	D	HM	FT	3	FT	-	-	-	-	2	
30	(2) 3'-0" x 7'-0"	-	N	WD	ST	2	FT	-	-	-	-	11	
31	3'-0" x 7'-0"	-	D	HM	FT	1	FT	-	-	-	-	10	
32	3'-0" x 7'-0"	-	D	HM	FT	1	FT	-	-	-	-	10	
33	3'-0" x 7'-0"	-	B	WD	ST	1	FT	-	-	-	-	1	
34	3'-0" x 7'-0"	-	B	WD	ST	3	FT	-	-	-	-	8	
35	3'-0" x 7'-0"	-	B	WD	ST	1	FT	-	-	-	-	8	
36	3'-0" x 7'-0"	-	L	WD	ST	4	FT	-	-	-	-	13	
41	2'-2" x 7'-0"	-	D	HM	FT	1	FT	-	-	-	-	13	
49	4'-10" x 5'-4"	-	J	HM	FT	7	FT	-	-	-	-	-	
UPPER LEVEL													
31	3'-0" x 7'-0"	-	B	WD	ST	3	FT	-	-	-	-	8	
38	3'-0" x 7'-0"	-	B	WD	ST	1	FT	-	-	-	-	8	
39	3'-0" x 7'-0"	-	A	WD	ST	1	FT	-	-	-	-	5	
40	3'-0" x 7'-0"	-	D	WD	ST	1	FT	-	-	-	-	9	
41	3'-0" x 7'-0"	-	A	WD	ST	1	FT	-	-	-	-	5	
42	3'-0" x 7'-0"	-	A	WD	ST	1	FT	-	-	-	-	10	
43	3'-0" x 7'-0"	-	A	WD	ST	1	FT	-	-	-	-	10	
44	3'-0" x 7'-0"	-	A	WD	ST	1	FT	-	-	-	-	9	
45	3'-0" x 7'-0"	-	A	WD	ST	1	FT	-	-	-	-	9	
46	3'-0" x 7'-0"	-	A	WD	ST	1	FT	-	-	-	-	9	
48	3'-0" x 7'-0"	-	A	WD	ST	1	FT	-	-	-	-	9	

DOOR SCHEDULE NOTES & ABBREVIATIONS:

HM	HOLLOW METAL	ST	STAIN
MTL	METAL	WD	WOOD
FT	PAINT	AL	ALUMINUM
FA	FACTORY FINISH		

NOTE: GC TO PROVIDE CONSTRUCTION CORES AND FINAL CORES AND UTAH NATIONAL GUARD WILL BE RESPONSIBLE FOR KEYING THE FINAL CORES.

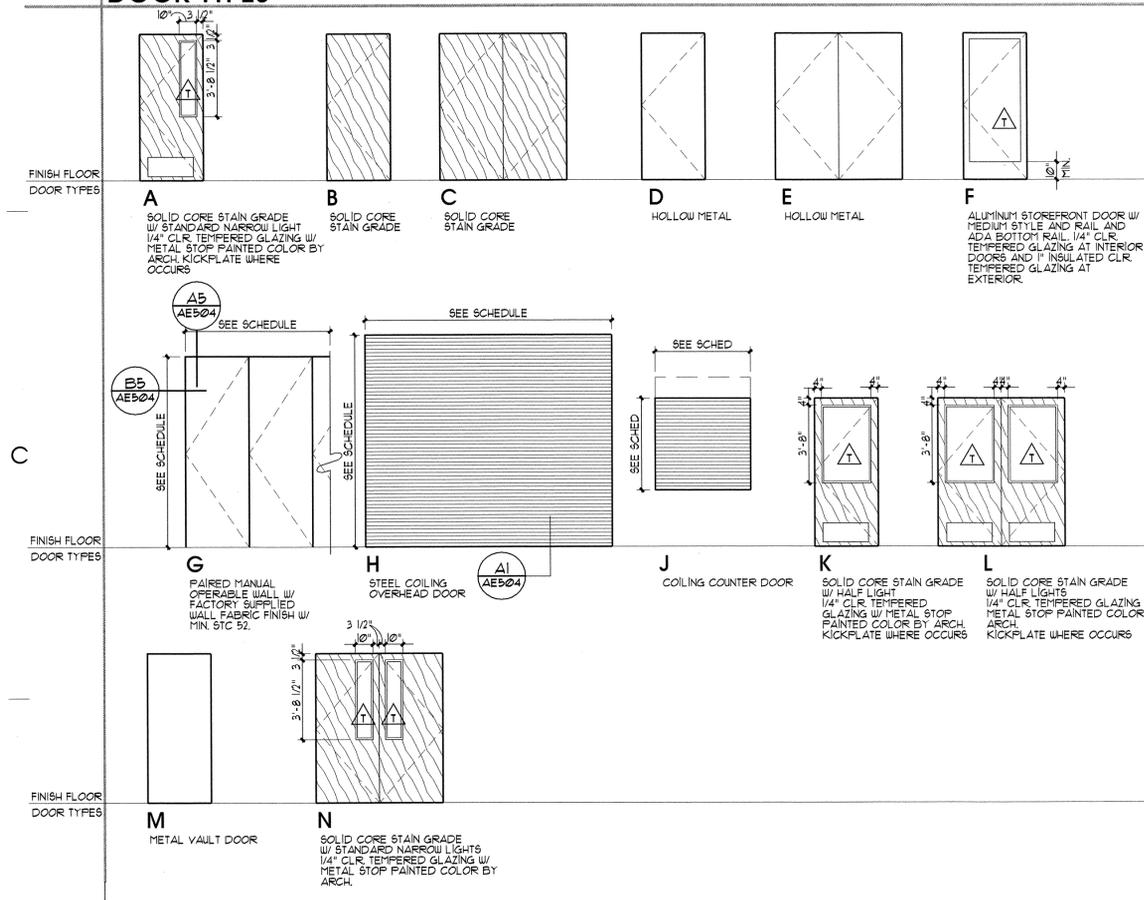
WINDOW TYPE NOTES / LEGEND:

A	ALL GLASS WITHIN 24" OF ANY DOOR SHALL BE TEMPERED
B	ALL GLASS WITHIN 18" OF FINISH FLOOR SHALL BE TEMPERED
C	ALL HOLLOW METAL WINDOW FRAMES SHALL BE GALVANIZED AND PAINTED
D	ALL HOLLOW METAL DOOR FRAMES SHALL BE FACTORY PRIMED
△	INDICATES TEMPERED GLAZING
▽	INDICATES DIRECTION OF SWING (POINT INDICATES HINGE LOCATION)

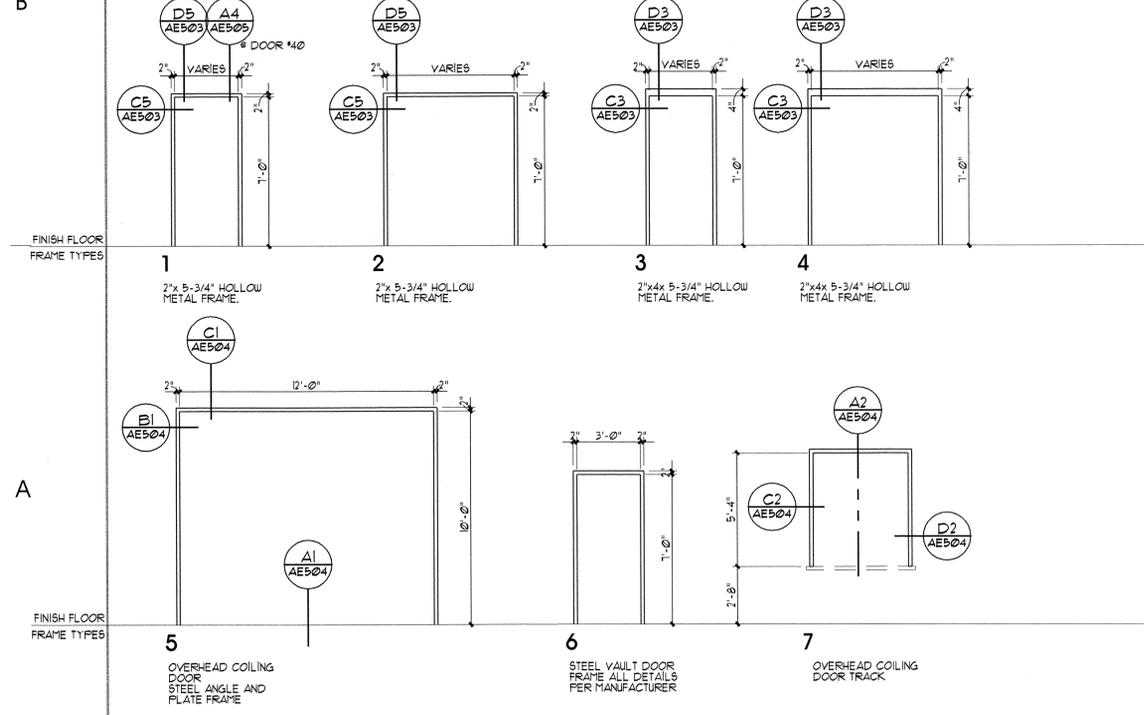
HARDWARE SCHEDULE

QTY	ITEM	MODEL	FINISH	MANUFACTURER
GROUP 1				
1 EA.	CYLINDER	A5 REQUIRED	-	
1 EA.	BALANCE OF HARDWARE	BY DOOR MANUFACTURER		
GROUP 2				
2 EA.	HINGE	5BB1 4.5x4.5 NRP	630	HB IVES
1 EA.	PANIC HARDWARE	98L 996L	626	VON DUFRIN
1 EA.	RIM CYLINDER	IE12-RP	626	BEST
1 EA.	SURFACE CLOSER	4111 AVB CUSH	689	LCN
1 EA.	SECURITY FLOOR STOP	F9185	BLK	HB IVES
1 SET	SMOKE SEALS	7005A	AL	NATIONAL GUARD
1 EA.	DOOR SWEEP	95 WH	AL	NATIONAL GUARD
1 EA.	THRESHOLD	896V	AL	NATIONAL GUARD

DOOR TYPES



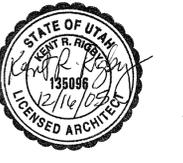
FRAME TYPES



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PROJECT DESCRIPTION

**UTAH NATIONAL
GUARD 144th
COMPANY
READINESS
CENTER**

CAMP WG WILLIAMS
RIVERTON, UTAH

SHEET NAME:

**DOOR AND
FRAME TYPES
SCHEDULES
& NOTES**

REVISIONS

MARK	DATE	DESCRIPTION

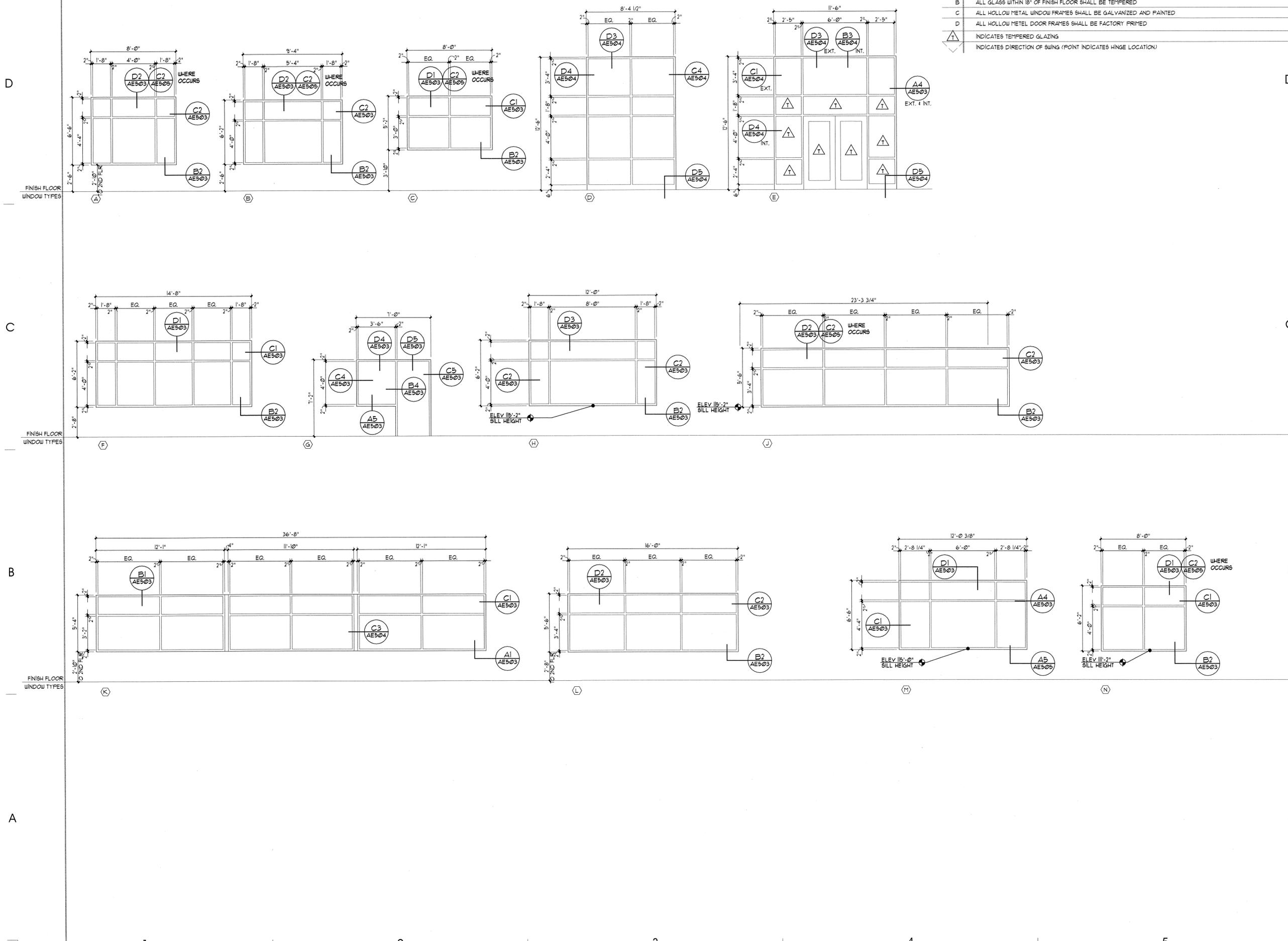
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DFCM PROJECT # 04

WINDOW TYPES SEE WINDOW TYPE NOTES / LEGEND

WINDOW TYPE NOTES / LEGEND:

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 - C ALL HOLLOW METAL WINDOW FRAMES SHALL BE GALVANIZED AND PAINTED
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- △ INDICATES TEMPERED GLAZING
 ↕ INDICATES DIRECTION OF SWING (POINT INDICATES HINGE LOCATION)



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SHEET NAME:

**WINDOW TYPES
 & NOTES**

REVISIONS

MARK	DATE	DESCRIPTION

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DRAWINGS INDEX

SHEET NUMBER	SHEET TITLE	DRAWING ISSUES				
		CONDOCS 12/05				
MH001	LEGEND AND INDEX SHEET	•				
MH101	MAIN LEVEL MECHANICAL FLOOR PLAN	•				
MH102	UPPER LEVEL MECHANICAL FLOOR PLAN	•				
MH103	MECHANICAL/PLUMBING ROOF PLAN	•				
MH501	MECHANICAL DETAILS	•				
MH502	MECHANICAL DETAILS	•				
MH601	MECHANICAL SCHEDULES	•				
MP101	MAIN LEVEL MECHANICAL PIPING PLAN	•				
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MP201	MECHANICAL PIPING SCHEMATICS	•				
PL101	MAIN LEVEL PLUMBING FLOOR PLAN	•				
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PL401	ENLARGED PLUMBING FLOOR PLANS	•				
PL501	PLUMBING DETAILS	•				
PL502	PLUMBING DETAILS	•				
PL601	PLUMBING SCHEDULES	•				

ABBREVIATIONS

φ	ROUND OR DIAMETER	MBH	THOUSAND BRITISH THERMAL UNITS/HOUR
AF	AIRFOIL	MECH	MECHANICAL
AFF	ABOVE FINISHED FLOOR	MFS	MAXIMUM FUSE SIZE
BOD	BOTTOM OF DUCT	MIN	MINIMUM
BOP	BOTTOM OF PIPE	MVD	MANUAL VOLUME DAMPER
BTU/H	BRITISH THERMAL UNITS PER HOUR	NA	NOT APPLICABLE
CFM	CUBIC FEET PER MINUTE	NC	NOISE CRITERIA OR NORMALLY CLOSED
CV	CONSTANT VOLUME	NIC	NOT IN CONTRACT
DB	DRY BULB	NOM	NOMINAL
DIA	DIAMETER	NTS	NOT TO SCALE
DSN	DOWN SPOUT NOZZLE	OA	OUTSIDE AIR
(E)	EXISTING	OBD	OPPOSED BLADE DAMPER
EAT	ENTERING AIR TEMPERATURE	OD	OVERFLOW DRAIN
EFF	EFFICIENCY	PD	PRESSURE DROP
ELEV	ELEVATION	PRV	PRESSURE REDUCING VALVE
ESP	EXTERNAL STATIC PRESSURE	PSI	POUNDS PER SQUARE INCH
ET	EXPANSION TANK	PSIG	POUNDS PER SQUARE INCH GAUGE
EWC	ELECTRIC WATER COOLER	RA	RETURN AIR
EWT	ENTERING WATER TEMPERATURE	RD	ROOF DRAIN
FCO	FLOOR CLEANOUT	RBPB	REDUCED PRESSURE BACKFLOW PREVENTER
FD	FLOOR DRAIN	SA	SUPPLY AIR
FFM	FEET PER MINUTE	SEN	SENSIBLE
FS	FLOOR SINK	SL	SEA LEVEL
FT	FEET	SP	STATIC PRESSURE
FV	FACE VELOCITY	SQ FT	SQUARE FEET
GA	GAUGE	SS	SERVICE SINK OR STAINLESS STEEL
GAL	GALLON	TSP	TOTAL STATIC PRESSURE
GPM	GALLONS PER MINUTE	U	URINAL
HP	HORSEPOWER	VAV	VARIABLE AIR VOLUME
HR	HOUR	VFD	VARIABLE FREQUENCY DRIVE
HT	HEIGHT	VTR	VENT THROUGH ROOF
IN.	INCH	W/	WITH
INWC	INCHES OF WATER COLUMN	W/O	WITHOUT
IPG	INHIBITED PROPYLENE GLYCOL	WB	WET BULB
L	LAVATORY	WC	WATER CLOSET
LAT	LEAVING AIR TEMPERATURE	WCO	WALL CLEANOUT
LBS	POUNDS	WPD	WATER PRESSURE DROP
LWT	LEAVING WATER TEMPERATURE	WT	WEIGHT
		MAX	MAXIMUM

SITE ELEVATION = 4,500'

MECHANICAL LEGEND

NOTE: ALL ITEMS MAY NOT APPEAR ON DRAWINGS

GATE VALVE		ROOF DRAIN PIPING	
OS & Y PATTERN GATE VALVE		OVERFLOW DRAIN PIPING	
BALL VALVE		ROOF DRAIN PIPING ABOVE GRADE	
BUTTERFLY VALVE		ROOF DRAIN PIPING BELOW GRADE	
MOTORIZED VALVE OR DAMPER OPERATOR		FIRE SERVICE	
GAS COCK		NATURAL GAS	
CHECK VALVE (SWING OR LIFT AS REQ'D)		CLEAN DRY AIR	
SOLENOID VALVE		NITROGEN GAS	
AUTOMATIC CONTROL VALVE (2-WAY)		VACUUM	
AUTOMATIC CONTROL VALVE (3-WAY)		CHILLED WATER SUPPLY	
P & T RELIEF VALVE		CHILLED WATER RETURN	
AIR VENT (AUTOMATIC)		PROCESS CHILLED WATER SUPPLY	
STRAINER		PROCESS CHILLED WATER RETURN	
CALIBRATED BALANCE VALVE		HEATING WATER SUPPLY	
VENTURI FLOW METER		HEATING WATER RETURN	
REDUCER		DUCT SIZE, FIRST FIGURE IS SIDE SHOWN	
PET COCK OR GAUGE COCK		BURIED OR UNDERFLOOR DUCT	
PRESSURE GAUGE W/GAUGE COCK		FLEXIBLE DUCT (HELICAL)	
THERMOMETER		SPIN-IN FITTINGS W/MVD	
TEMPERATURE & PRESSURE TEST PLUG		FLEXIBLE DUCT CONNECTION	
IN-LINE PUMP		SUPPLY DIFFUSER	
FLOW SWITCH		RETURN GRILLE	
HOSE BIBB OR SILLCOCK		RADIAL SUPPLY DIFFUSERS	
FLOOR DRAIN		RETURN AIR DUCT SECTION	
FLOOR SINK		RETURN AIR DUCT UP	
WALL CLEANOUT		RETURN AIR DUCT DOWN	
FLOOR OR GRADE CLEANOUT		SUPPLY AIR DUCT SECTION	
VENT THROUGH ROOF		SUPPLY AIR DUCT UP	
WALL TYPE FDC CONNECTION		SUPPLY AIR DUCT DOWN	
FIRE DEPT. HORN & LIGHT		EXHAUST AIR DUCT SECTION	
REDUCED PRESSURE BACKFLOW PREVENTER		EXHAUST AIR DUCT UP	
DIRECTION OF FLOW		EXHAUST AIR DUCT DOWN	
ELBOW DOWN		ACCESS PANEL	
ELBOW UP		MANUAL VOLUME DAMPER	
PIPE CAP		GRAVITY BACKDRAFT DAMPER	
TEE DOWN		MOTORIZED DAMPER	
UNION		DUCT TRANSITION	
DOMESTIC COLD WATER		ELBOW W/ TURNING VANES	
DOMESTIC HOT WATER		TEE W/ 45° ENTRY	
HOT WATER CIRC.		WYE W/ 45° ENTRY	
TEMPERED WATER 78°		THERMOSTAT OR TEMP SENSOR	
SANITARY (PLBG) VENT		CARBON DIOXIDE SENSOR	
ACID VENT PIPING		POINT OF REMOVAL FROM EXISTING	
SANITARY SEWER ABOVE GRADE		POINT OF CONNECTION TO EXISTING	
SANITARY SEWER BELOW GRADE		DETAIL TAG	
SANITARY SEWER BELOW GRADE		DETAIL NO.	
DRAIN		DRAWING NO.	
INDUSTRIAL WATER, COLD (NON-POTABLE)		NOTE NO.	
		KEYED NOTE	
		SECTIONS NO.	
		SECTION CUT LINE	
		DRAWING NO.	



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SHEET NAME:
LEGEND AND
INDEX SHEET

REVISIONS
 MARK DATE DESCRIPTION



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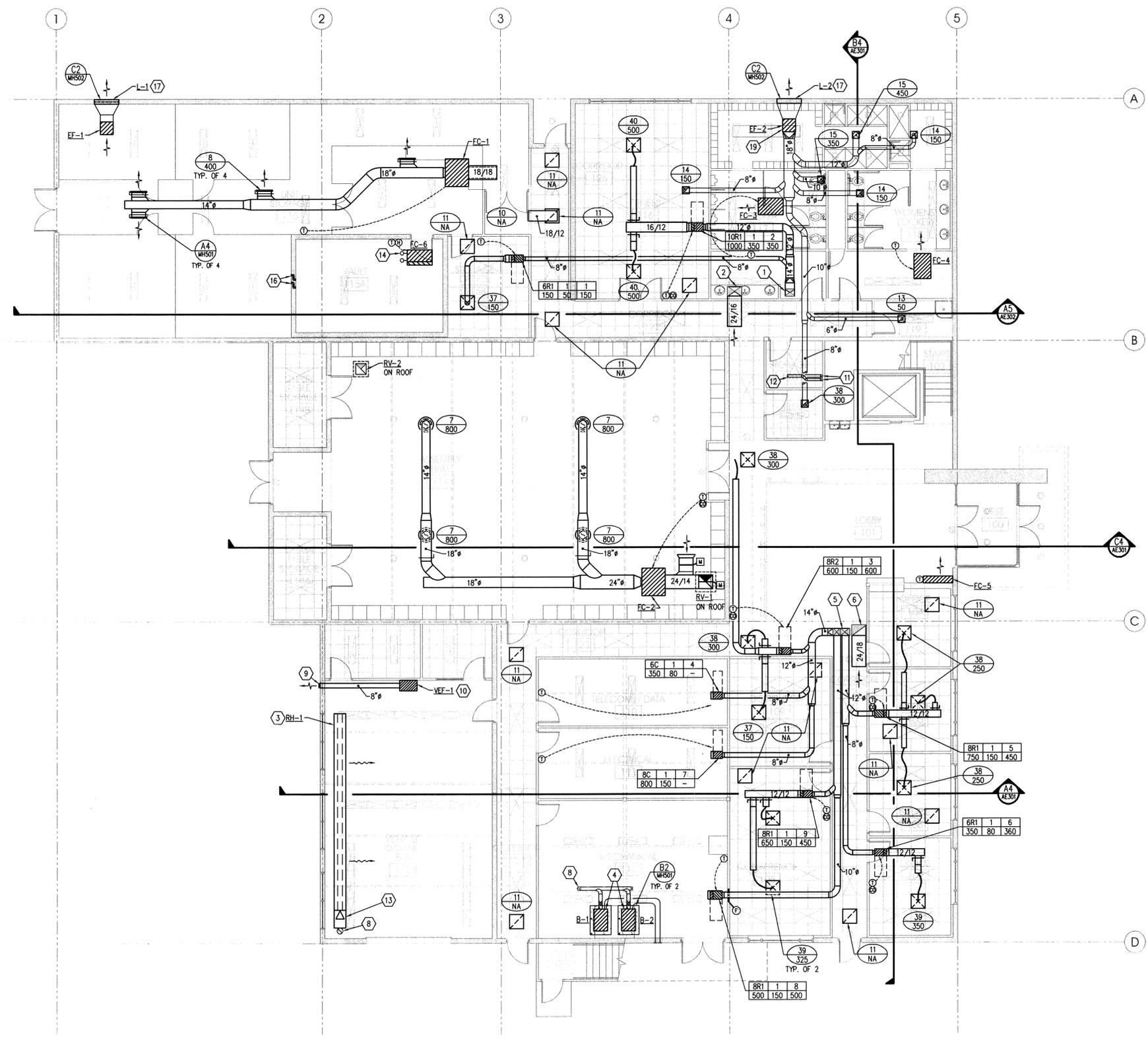
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MH001

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- ### KEYED NOTES
- 1 16"x12" SUPPLY AIR UP.
 - 2 24"x16" RETURN AIR UP.
 - 3 MOUNT RADIANT HEATER @ 45° ANGLE.
 - 4 REFER TO PIPING DIAGRAM ON SHEET MP201. HOUSEKEEPING PAD SHALL BE 6" WIDER THAN EQUIPMENT ON ALL SIDES.
 - 5 28"x12" SUPPLY AIR UP. SPLIT FLOW AFTER TAKING OFF (2) 12" DUCTS WITH A RECTANGULAR, SINGLE VANED DUCT SPLITTER. ALL DUCTS IN THIS SYSTEM TO BE RUN IN JOIST SPACE.
 - 6 24"x18" RETURN AIR UP.
 - 7 24"x14" RETURN AIR.
 - 8 6" COMMON BOILER FLUE THRU ROOF (CATAGORY IV).
 - 9 8" WALL CAP.
 - 10 MOUNT UNIT AT 13' ABOVE FINISHED FLOOR.
 - 11 5" COMBUSTION AND FLUE PIPES UP.
 - 12 CONNECT COMBUSTION AND FLUE TO WATER HEATER. SEE PLUMBING PLANS FOR LOCATION.
 - 13 SEE SHEET PL101 FOR GAS PIPING.
 - 14 REFRIGERANT LINES UP THRU ROOF TO CUI-1.
 - 15 HANG UNIT TIGHT TO CEILING WITH VIBRATION ISOLATORS. UNISTRUT AND ALL THREAD ROD.
 - 16 PROVIDE (2) 1-1/2" Z-DUCTS THRU WALL FROM VAULT TO UNIT STORAGE. LOCATE Z-DUCTS AT 12" AFF AND 12" BELOW VAULT CEILING. CENTER SECTION TO BE MINIMUM 6" LONG.
 - 17 LOCATE LOUVER AS HIGH AS POSSIBLE, MINIMUM 10'-0" ABOVE FINISHED GRADE.
 - 18 (2) 4" BOILER COMBUSTION AIR PIPES. TERMINATE WITH 4" WALL CAPS.
 - 19 PROVIDE 20"x20" ACCESS DOOR FOR FAN MOTOR AND DRIVE SERVICE.

A2 MAIN LEVEL MECHANICAL FLOOR PLAN
 MH101 SCALE: 1/8" = 1'-0"



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MAIN LEVEL
MECHANICAL
FLOOR PLAN

REVISIONS

MARK	DATE	DESCRIPTION



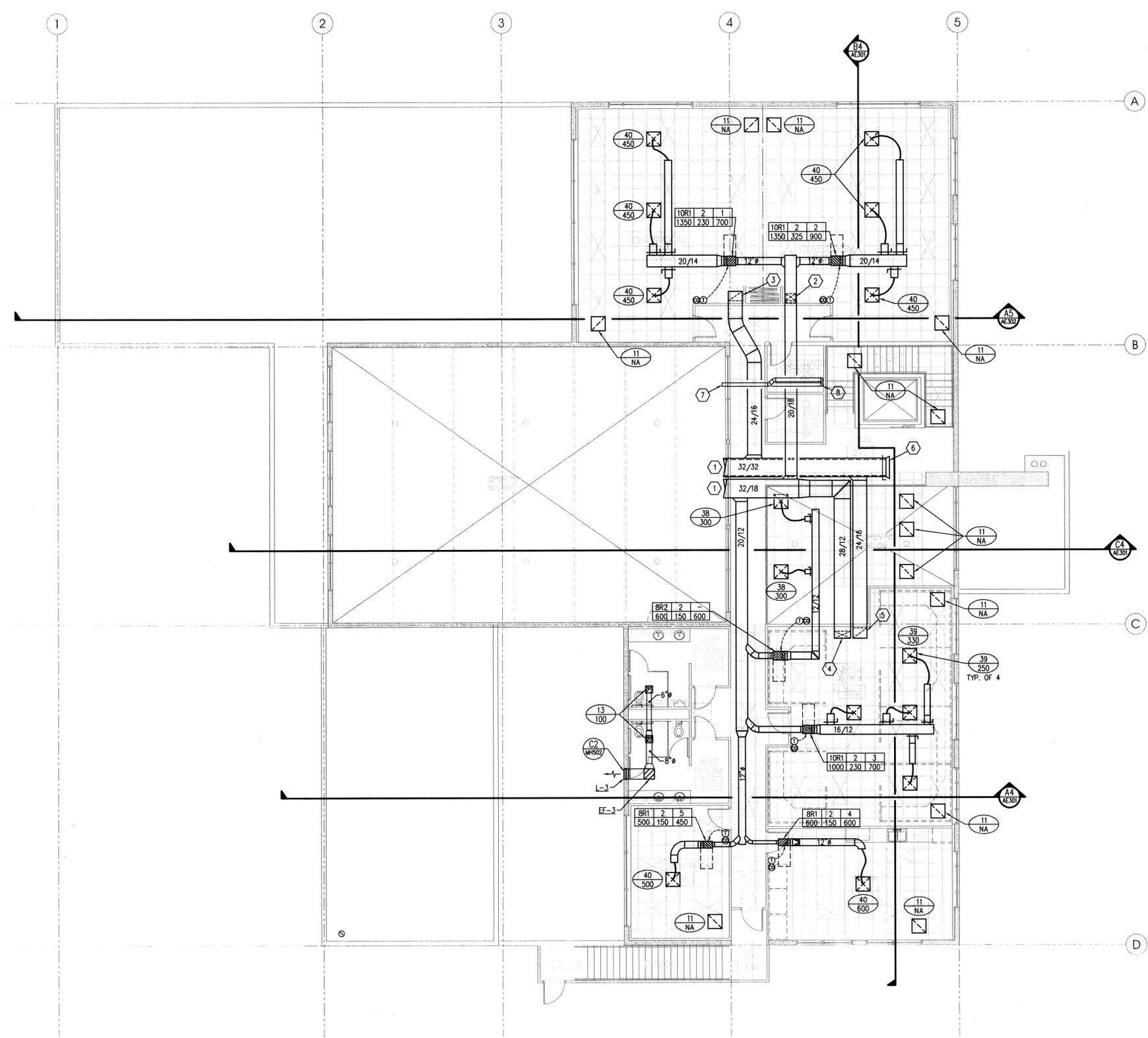
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- KEYED NOTES**
- 1 SEE SHEET MH103 FOR CONTINUATION.
 - 2 16"x12" SUPPLY AIR DOWN.
 - 3 24"x16" RETURN AIR DOWN.
 - 4 28"x12" SUPPLY AIR DOWN.
 - 5 24"x18" RETURN AIR DOWN AIR DOWN.
 - 6 6", 60" BELLMOUTH AND MANUAL VOLUME DAMPER.
 - 7 5" CATEGORY IV COMBUSTION AND FLUE PIPES. TERMINATE ABOVE CONVENTION HALL ROOF, WITH COMBUSTION AIR @ 3'-0" BELOW FLUE PIPE.
 - 8 5" CATEGORY IV COMBUSTION AND FLUE PIPES DOWN.

A2
 MH102
 SCALE: 1/8" = 1'-0"
 6' 0' 4' 8' 12' 16'

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PROJECT DESCRIPTION
**UTAH NATIONAL
 GUARD 144th
 COMPANY
 READINESS
 CENTER**
 CAMP WG WILLIAMS
 RIVERTON, UTAH

SHEET NAME:
 UPPER LEVEL
 MECHANICAL
 FLOOR PLAN

REVISIONS

MARK	DATE	DESCRIPTION



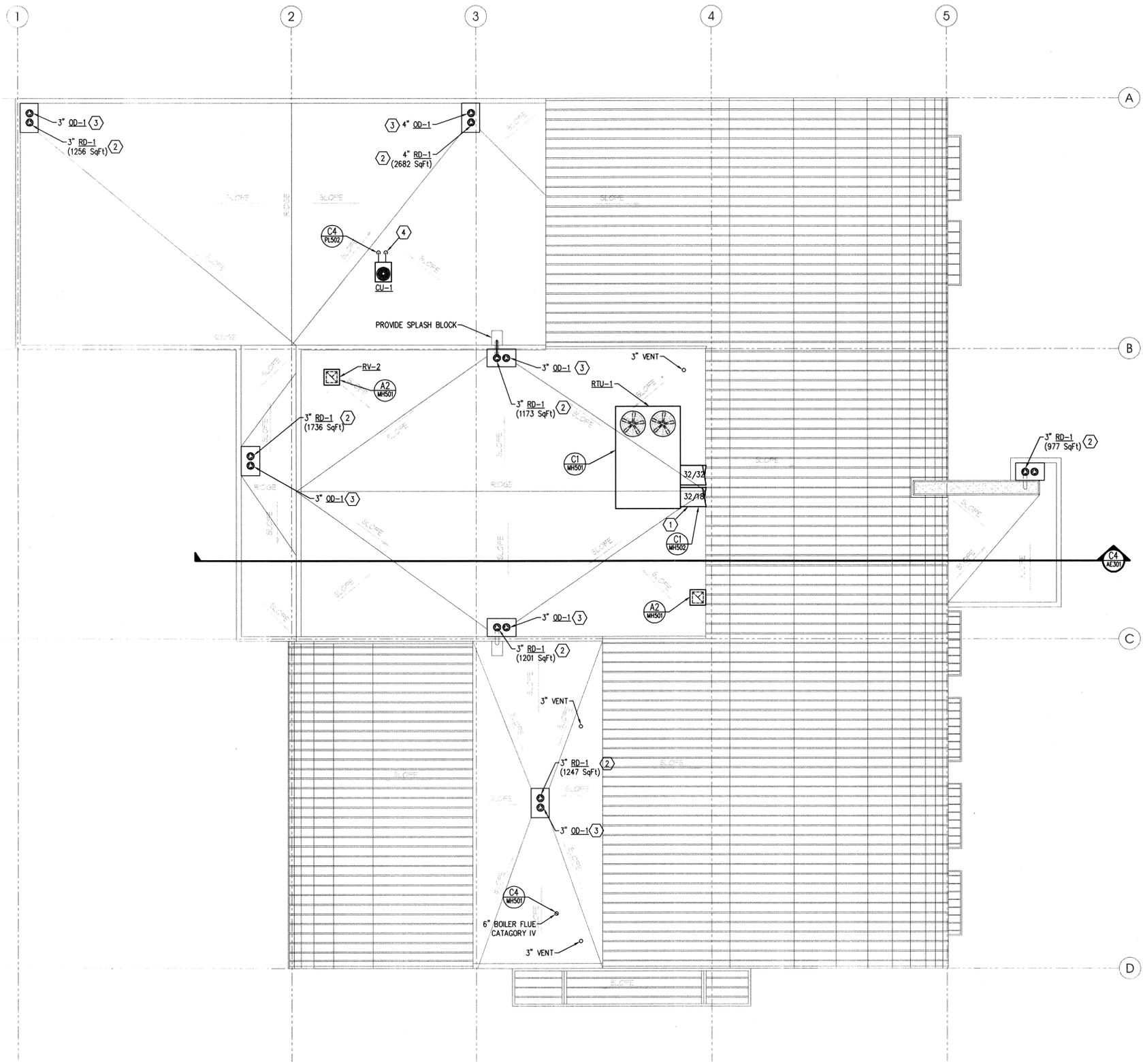
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MH102

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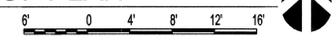
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KEYED NOTES

- ① ROOF MOUNTED DUCTS TO BE DOUBLE WALL WITH 2" INSULATION. CANT TOP OF DUCT TO ALLOW FOR RUNOFF. STANDING SEAMS SHALL NOT BE ACCEPTABLE.
- ② ROOF DRAIN TO BE ROUTED TO LANDSCAPE.
- ③ OVERFLOW ROOF DRAIN TO BE ROUTED TO 6" ABOVE FINISHED GRADE.
- ④ REFRIGERANT LINES DOWN TO EC-3.

A2
MH103 MECHANICAL/PLUMBING ROOF PLAN
 SCALE: 1/8" = 1'-0"



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PROJECT DESCRIPTION
UTAH NATIONAL
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COMPANY
READINESS
CENTER
 CAMP WG WILLIAMS
 RIVERTON, UTAH

SHEET NAME:
MECHANICAL/
PLUMBING
ROOF PLAN

REVISIONS

MARK	DATE	DESCRIPTION



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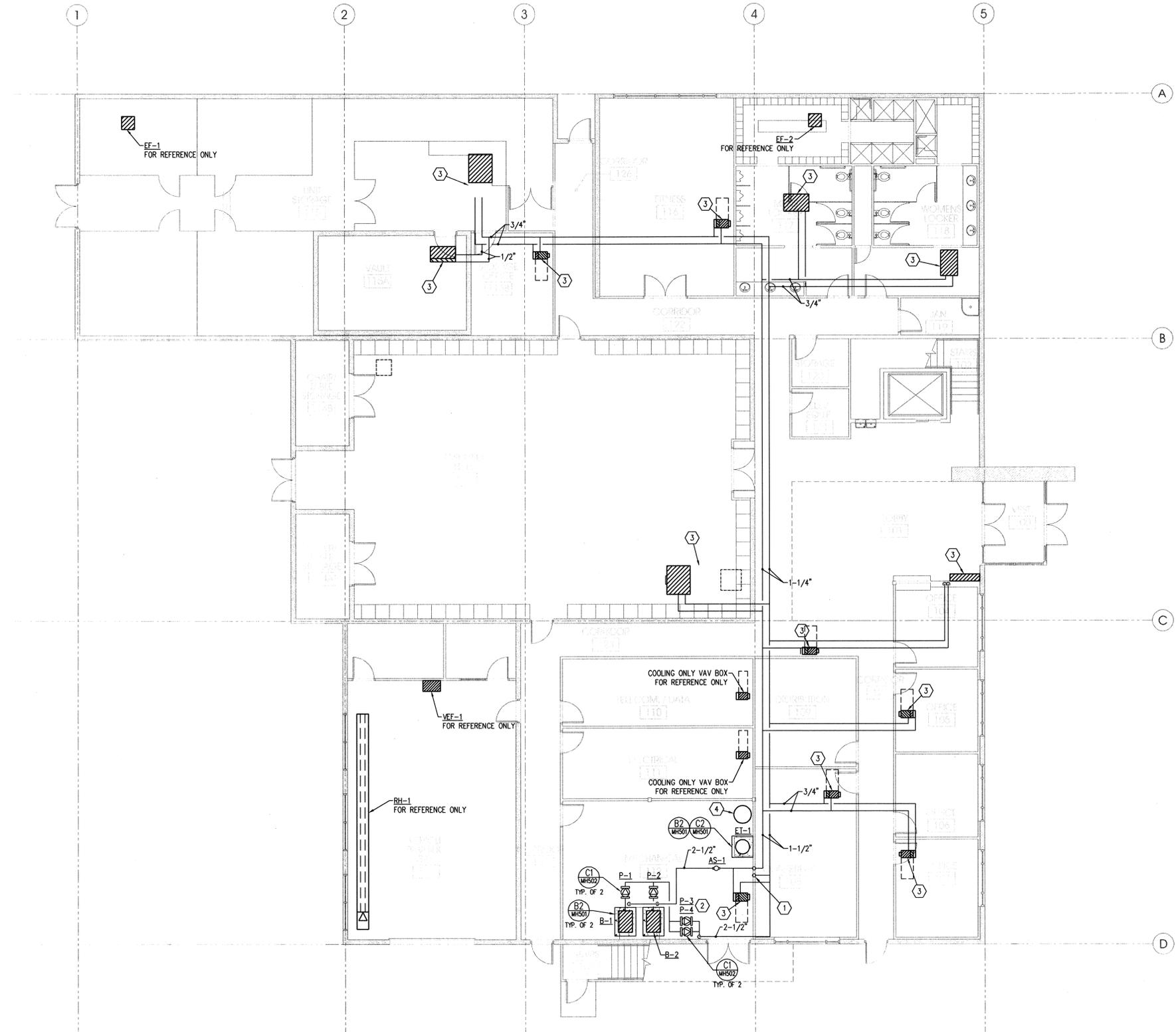
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MH103

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1 | 2 | 3 | 4 | 5



- KEYED NOTES**
- ① 2" HEATING WATER UP.
 - ② MOUNT PUMPS P-3 AND P-4 ON WALL. SEE PIPING DIAGRAM ON SHEET MP201.
 - ③ SEE SHEET MH101 FOR EQUIPMENT CALLOUTS.
 - ④ GLYCOL TANK AND FILL SYSTEM. SEE A3/MP201.

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PROJECT DESCRIPTION

**UTAH NATIONAL
 GUARD 144th
 COMPANY
 READINESS
 CENTER**
 CAMP WG WILLIAMS
 RIVERTON, UTAH

SHEET NAME:

**MAIN LEVEL
 MECHANICAL
 PIPING PLAN**

REVISIONS

MARK	DATE	DESCRIPTION



ISSUE DATA

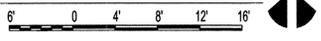
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SHEET NUMBER:

MP101

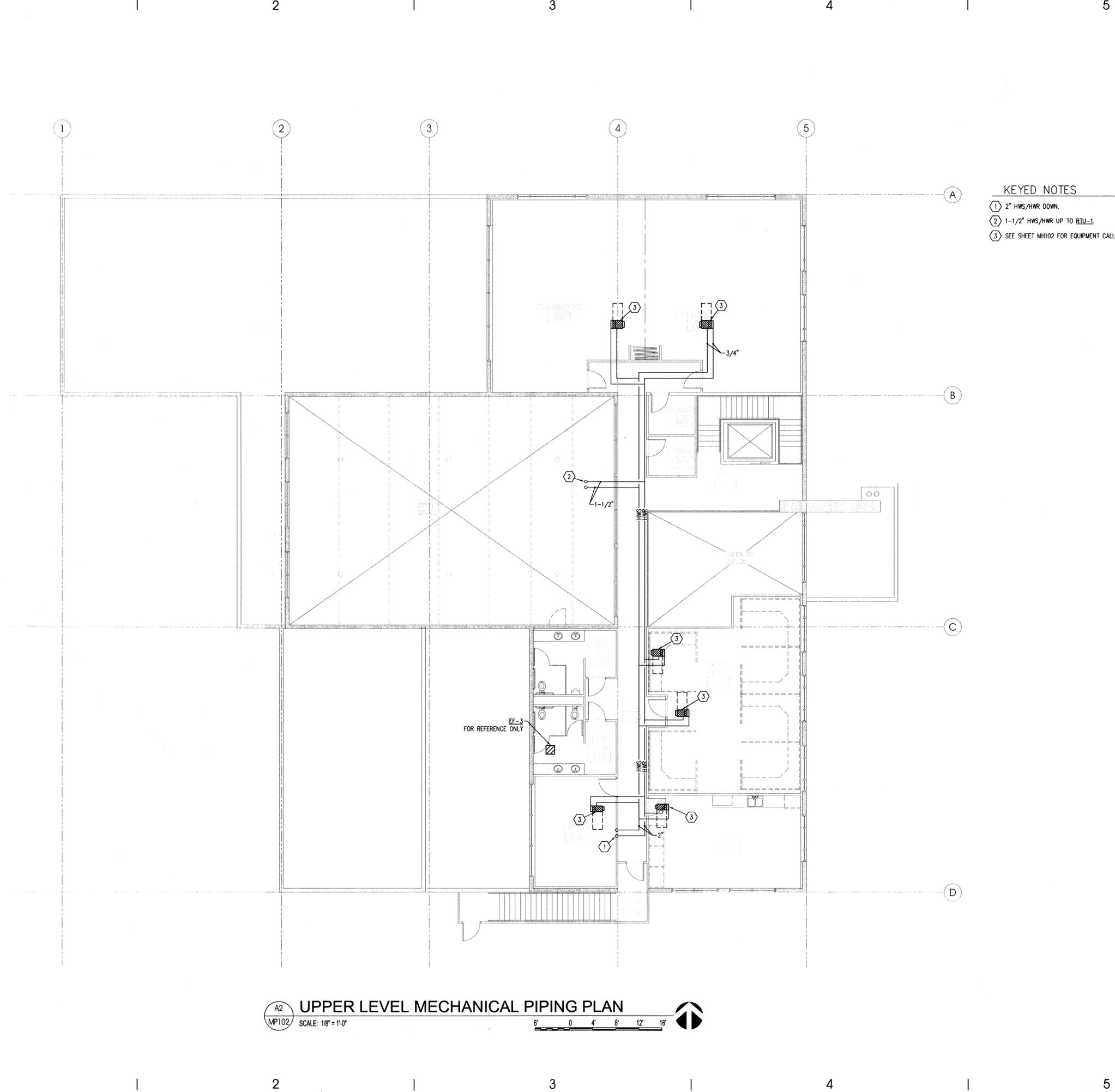
A2 MAIN LEVEL MECHANICAL PIPING PLAN
 MPI01 SCALE: 1/8" = 1'-0"



1 | 2 | 3 | 4 | 5

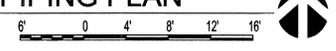
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- KEYED NOTES**
- ① 2" HWS/HWR DOWN.
 - ② 1-1/2" HWS/HWR UP TO RTU-1.
 - ③ SEE SHEET MH102 FOR EQUIPMENT CALLOUTS.

A2 **UPPER LEVEL MECHANICAL PIPING PLAN**
 MP102 SCALE: 1/8" = 1'-0"



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PROJECT DESCRIPTION
UTAH NATIONAL
GUARD 144th
COMPANY
READINESS
CENTER

 CAMP WG WILLIAMS
 RIVERTON, UTAH

SHEET NAME:
 UPPER LEVEL
 MECHANICAL
 PIPING PLAN

REVISIONS
 MARK DATE DESCRIPTION



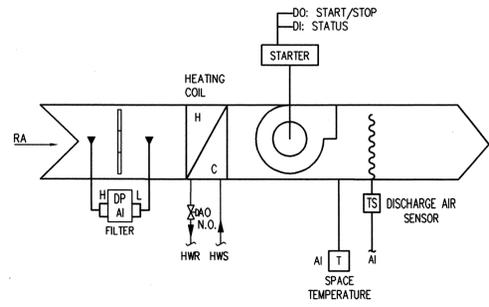
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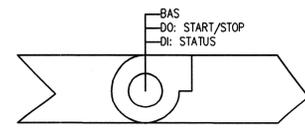
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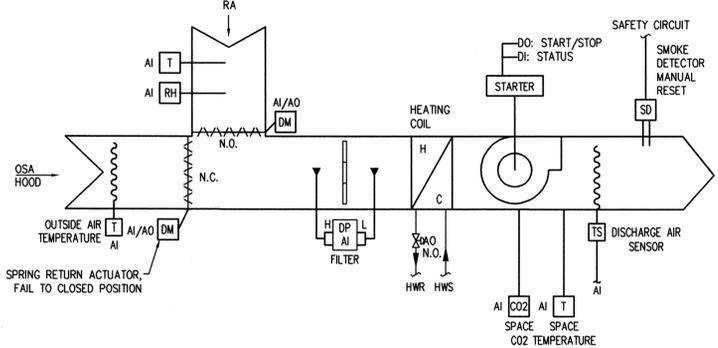
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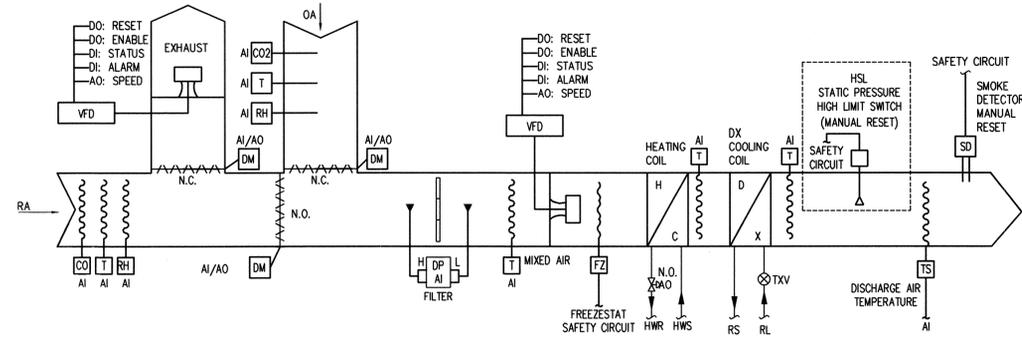
D1 FC-1 DDC CONTROL SCHEMATIC
NO SCALE



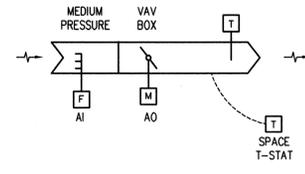
D3 TYP. EXHAUST DDC CONTROL SCHEMATIC
NO SCALE



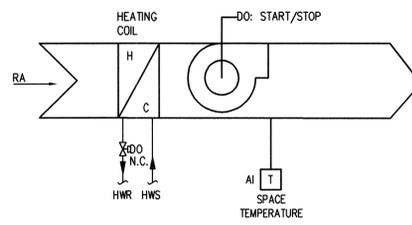
C1 FC-2 DDC CONTROL SCHEMATIC
NO SCALE



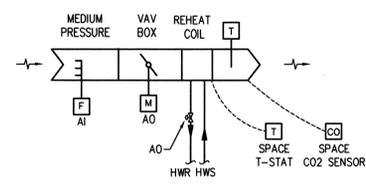
C3 RTU-1 DDC CONTROL SCHEMATIC
NO SCALE



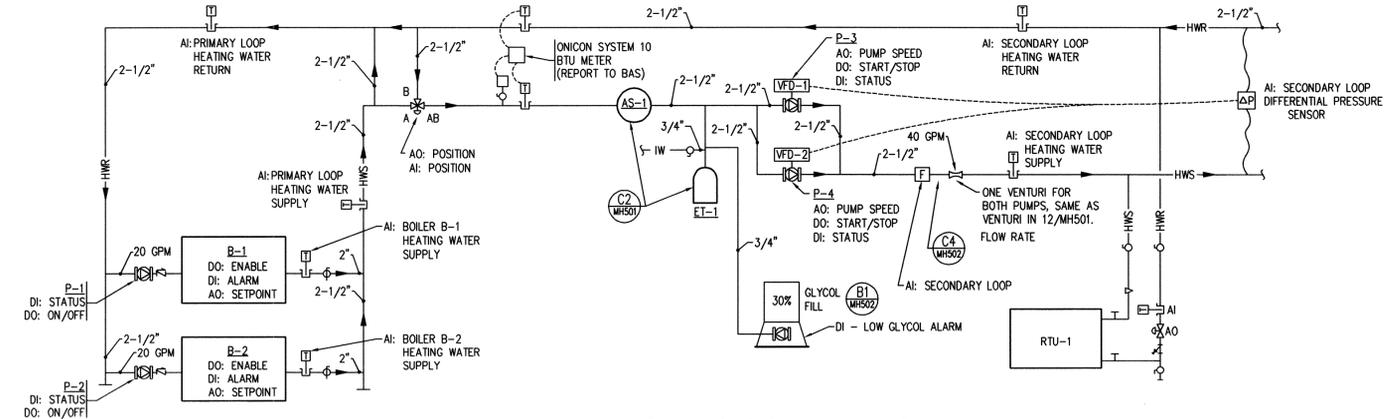
B1 COOLING VAV BOX DDC CONTROL SCHEMATIC
NO SCALE



A1 REHEAT VAV BOX DDC CONTROL SCHEMATIC
NO SCALE



B3 FC-3/FC-4/FC-5 DDC CONTROL SCHEMATIC
NO SCALE



A3 HEATING WATER PIPING DDC SCHEMATIC
NO SCALE



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PROJECT DESCRIPTION
**UTAH NATIONAL
GUARD 144th
COMPANY
READINESS
CENTER**

CAMP WG WILLIAMS
RIVERTON, UTAH

SHEET NAME:
**MECHANICAL
PIPING
SCHEMATICS**

REVISIONS		
MARK	DATE	DESCRIPTION



ISSUE DATA
ISSUE DATE: DEC. 2005
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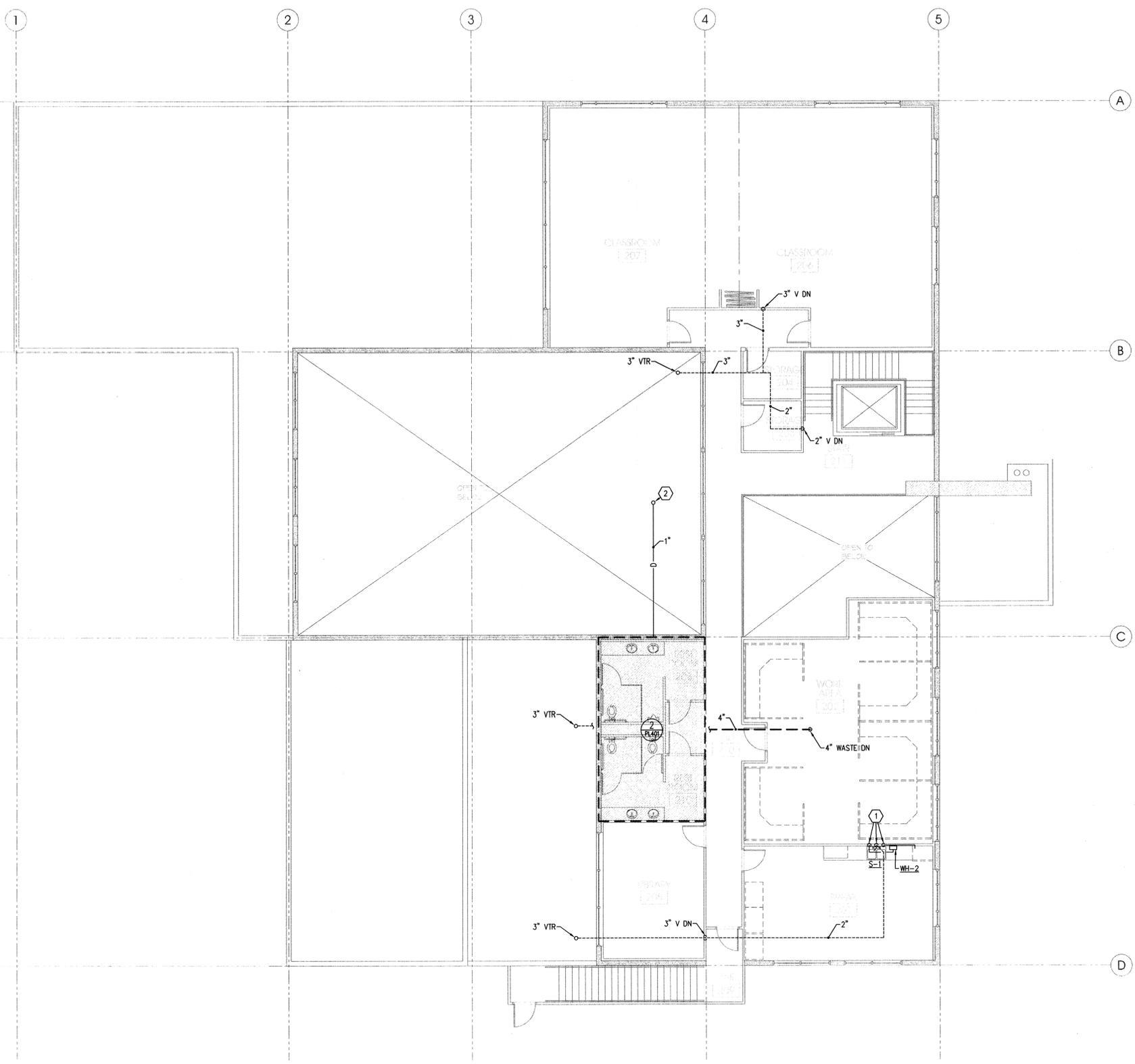
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MP201

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- KEYED NOTES**
- ① 2" WASTE AND 1/2" CW DOWN. 2" VENT UP. CONNECT 1/2" HW/CW TO S-1.
 - ② 1" CONDENSATE DRAIN WITH P-TRAP UP TO RTU-1.

A2
PL102 **UPPER LEVEL PLUMBING FLOOR PLAN**
 SCALE: 1/8" = 1'-0"

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PROJECT DESCRIPTION

**UTAH NATIONAL
 GUARD 144th
 COMPANY
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 CENTER**
 CAMP WG WILLIAMS
 RIVERTON, UTAH

SHEET NAME:

**UPPER LEVEL
 PLUMBING
 FLOOR PLAN**

REVISIONS

MARK	DATE	DESCRIPTION

ISSUE DATA

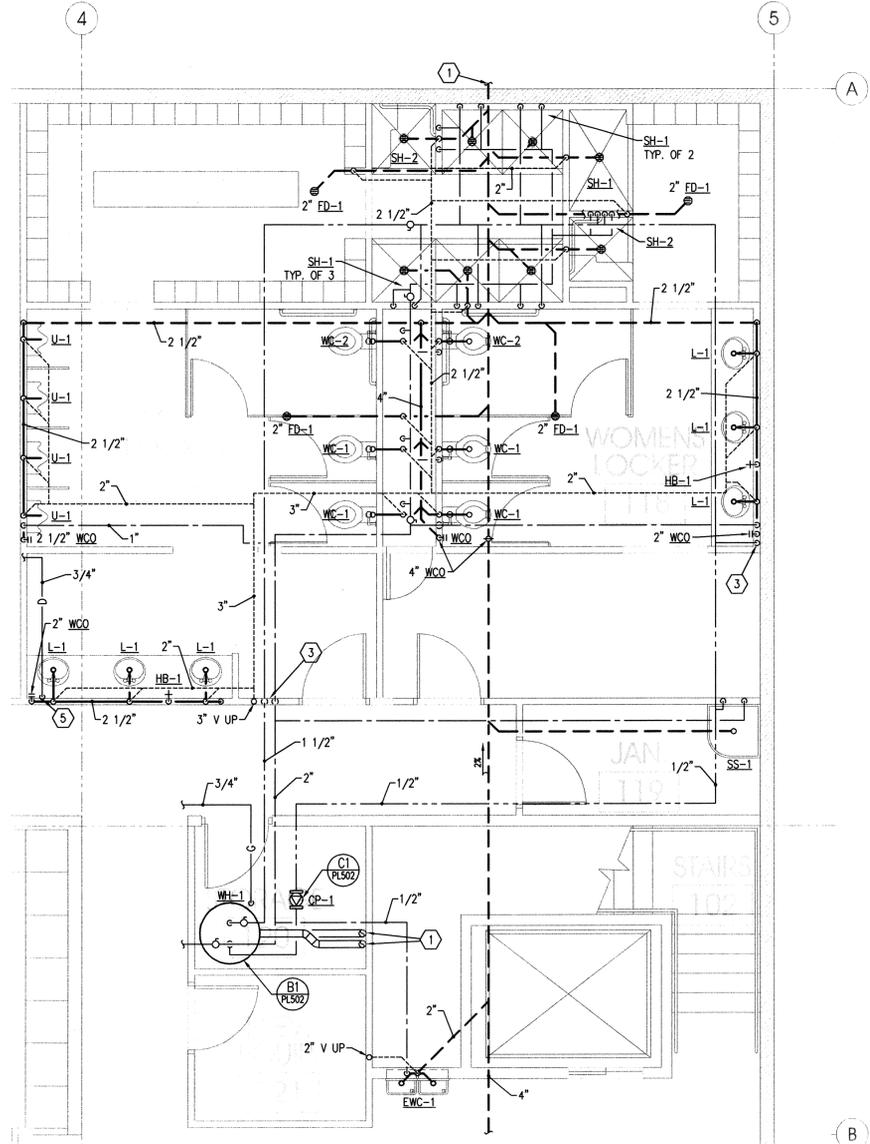
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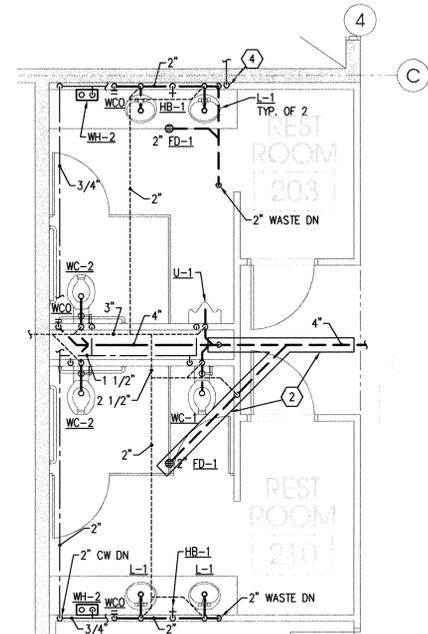
PL102

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B2
PL401 MAIN LEVEL ENLARGED REST ROOM PLUMBING PLAN
 SCALE: 1/4" = 1'-0"



A2
PL401 UPPER LEVEL ENLARGED REST ROOM PLUMBING PLAN
 SCALE: 1/4" = 1'-0"

KEYED NOTES

- 1 SEE CIVIL PLAN FOR CONTINUATION OF PIPING.
- 2 PROVIDE DRIP PAN UNDER WASTE PIPING IN TELECOM/DATA AND ELECTRICAL ROOMS.
- 3 1" CW AND 3/4" HW HEADERS DOWN. PROVIDE MIXING VALVE MV- FOR HOT WATER. CONNECT 1/2" HW/CW TO THREE (3) LAVATORIE CONNECT 3/4" CW TO HOSE BIBB. PROVIDE ISOLATION VALVES FOR HOT AND COLD HEADERS UPSTREAM OF MIXING VALVE.
- 4 1" CONDENSATE DRAIN DOWN TO LAVATORY TAILPIECE.
- 5 3/4" CONDENSATE DRAIN DOWN TO LAVATORY TAILPIECE.



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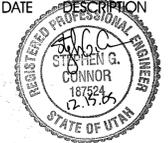
Internet: <http://www.dfem.utah.gov>

PROJECT DESCRIPTION
**UTAH NATIONAL
 GUARD 144th
 COMPANY
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CAMP WG WILLIAMS
 RIVERTON, UTAH

SHEET NAME:
**ENLARGED
 REST ROOM
 PLUMBING PLANS**

REVISIONS		
MARK	DATE	DESCRIPTION



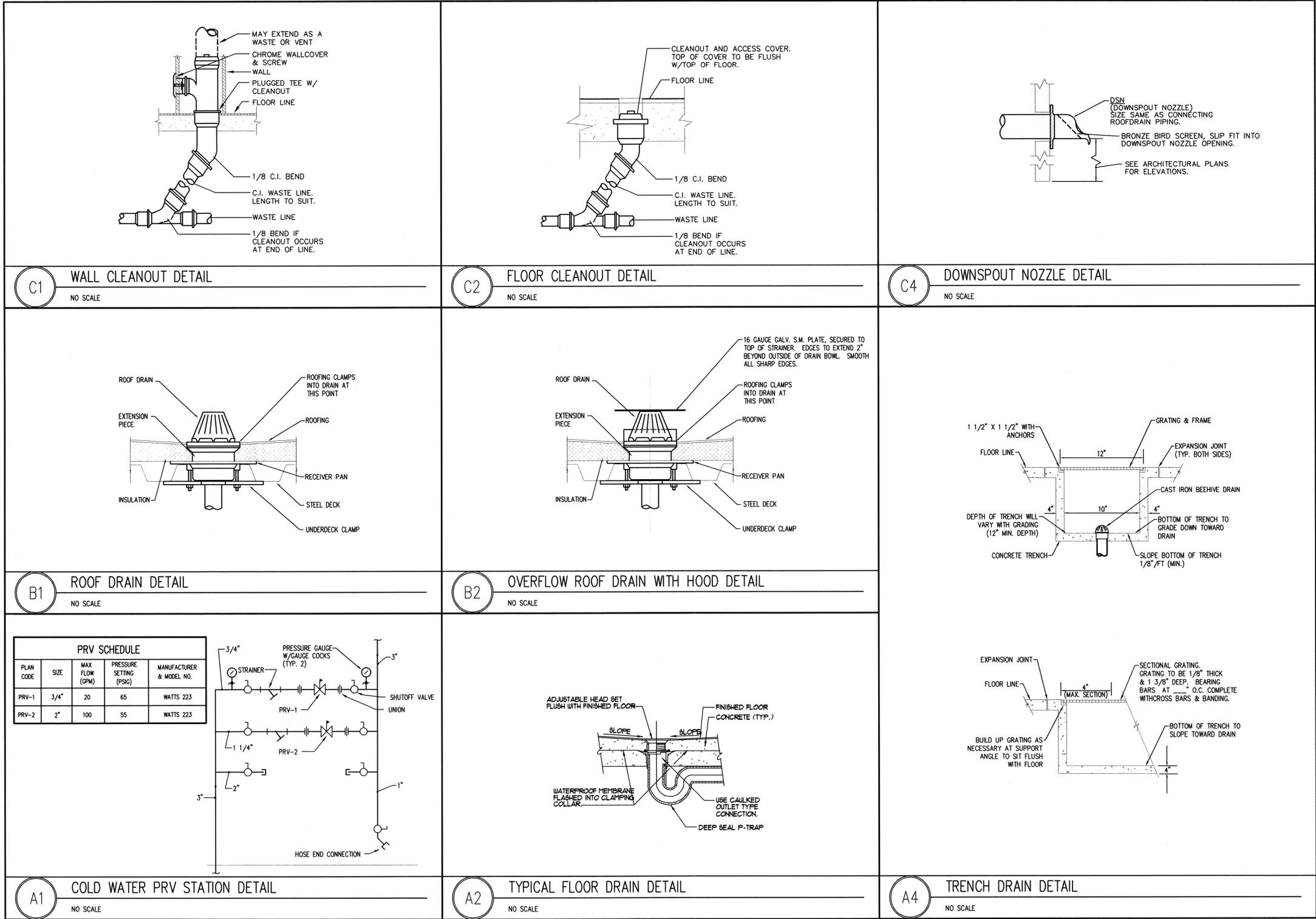
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1 | | 2 | | 3 | | 4 | | 5



PRV SCHEDULE				
PLAN CODE	SIZE	MAX FLOW (GPM)	PRESSURE SETTING (PSIG)	MANUFACTURER & MODEL NO.
PRV-1	3/4"	20	65	WATTS 223
PRV-2	2"	100	55	WATTS 223

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Internet: <http://www.dfcu.utah.gov>

PROJECT DESCRIPTION

UTAH NATIONAL GUARD 144th COMPANY READINESS CENTER

CAMP WG WILLIAMS
RIVERTON, UTAH

SHEET NAME:

PLUMBING DETAILS

REVISIONS

MARK	DATE	DESCRIPTION

REGISTERED PROFESSIONAL ENGINEER
STEPHEN G. CONNOR
187524
12-14-05
STATE OF UTAH

ISSUE DATA

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ISSUE TYPE: CONDOCS
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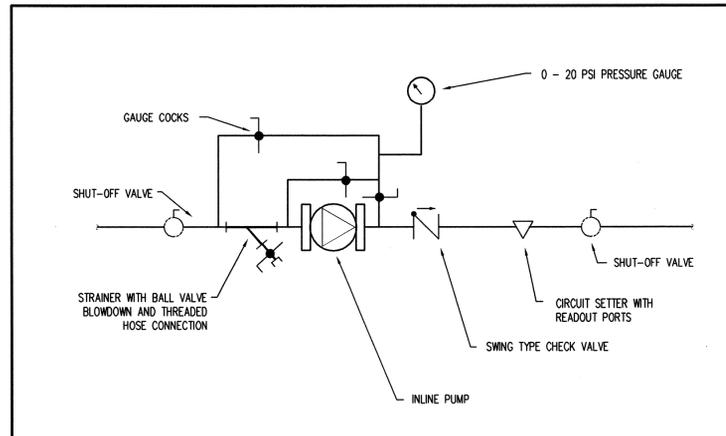
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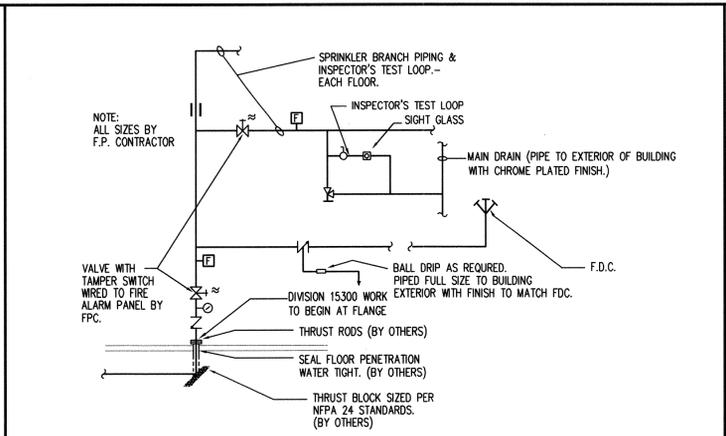
PL501

1 | | 2 | | 3 | | 4 | | 5

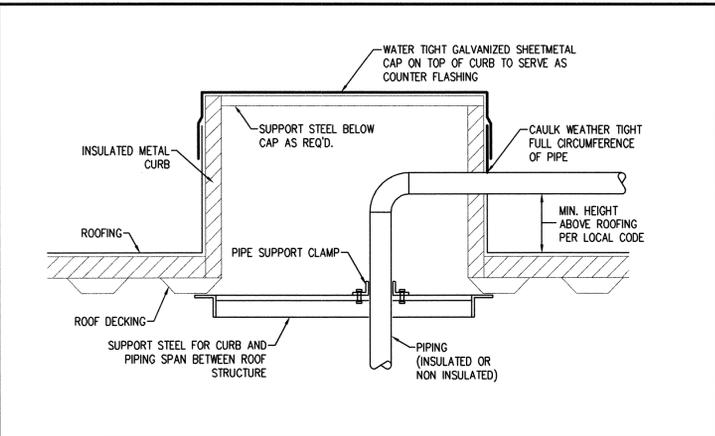
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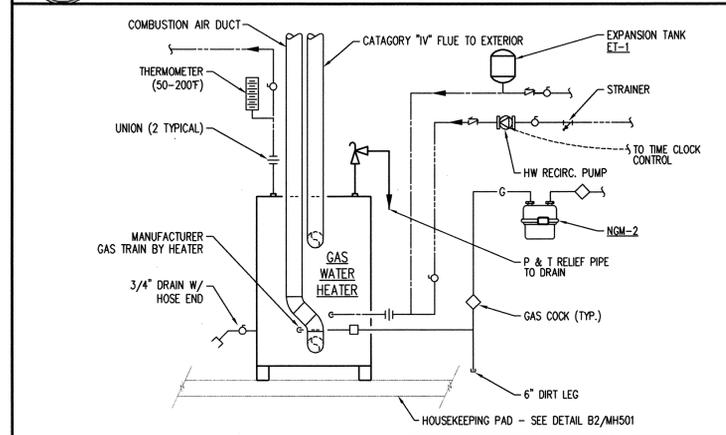
C1 IN-LINE PUMP PIPING DETAIL
NO SCALE



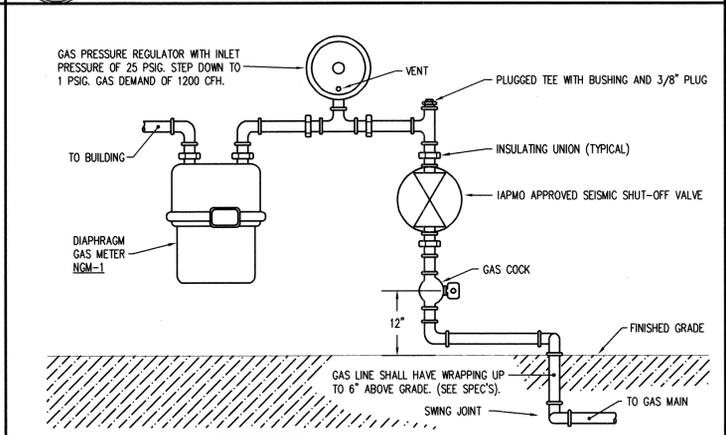
C2 TYPICAL FIRE SPRINKLER SERVICE ENTRY DETAIL
NO SCALE



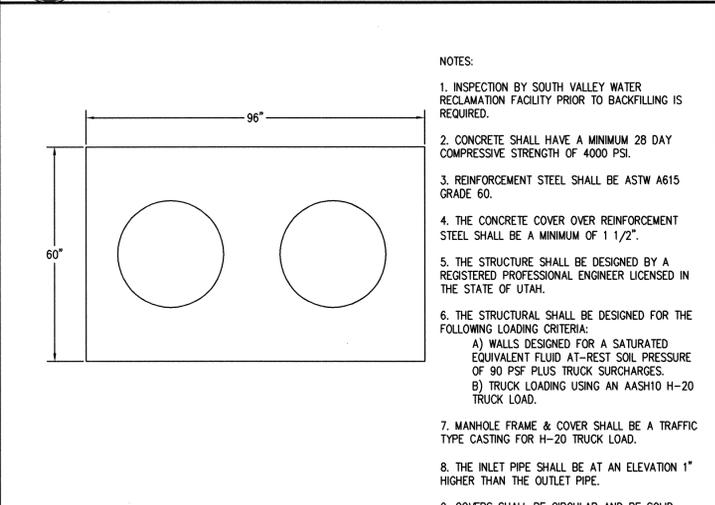
C4 PIPE PENETRATION THRU ROOF DETAIL
NO SCALE



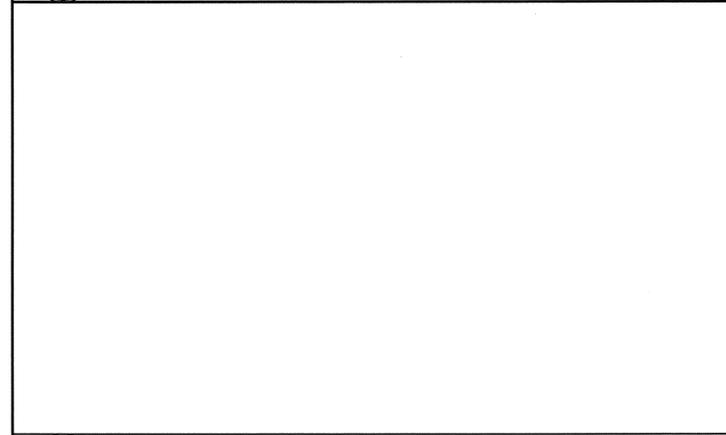
B1 GAS WATER HEATER PIPING DETAIL
NO SCALE



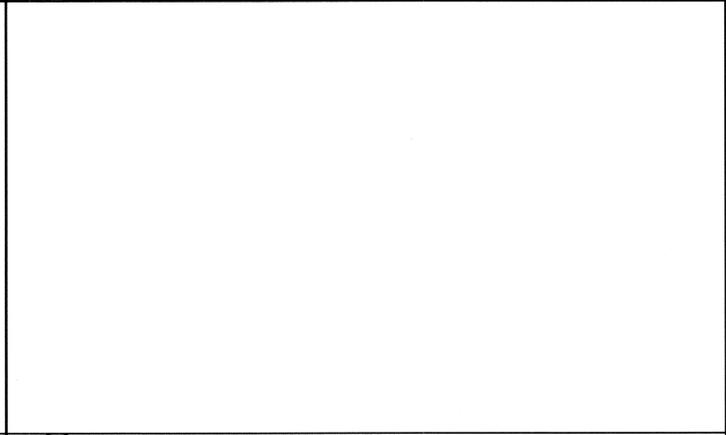
B2 GAS METER SERVICE CONNECTION DETAIL
NO SCALE



A4 GREASE TRAP DETAIL
NO SCALE



A1 NO SCALE



A2 NO SCALE

ARCHITECT 0470

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PROJECT DESCRIPTION

**UTAH NATIONAL
GUARD 144th
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CAMP WG WILLIAMS
RIVERTON, UTAH

SHEET NAME:
**PLUMBING
DETAILS**

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NATURAL GAS METER SCHEDULE (NGM)							
PLAN CODE	SERVICE	RATED CFH	TURNDOWN WITH <1% ERROR	INLET PRESSURE "WC	PRESSURE DROP "WC	MAX. DIMENSIONS (W x L x H) (N)	MANUFACTURER & MODEL NO.
NGM-1	BUILDING	1400	100:1	7	0.5	15 x 16 x 28	DIAPHRAGM AMERICAN METER AL1400
NGM-2	DOMESTIC WATER HEATER	425	100:1	7	0.5	10 x 10 x 15	DIAPHRAGM AMERICAN METER AL425
NGM-3	BOILERS	630	100:1	7	0.5	10 x 10 x 15	DIAPHRAGM AMERICAN METER AC630

CIRCULATION PUMP SCHEDULE (CP)														
PLAN CODE	TYPE	DUTY	FLOW (GPM)	PRESSURE (FT)	PUMP SPEED (RPM)	MIN. EFF. (%)	FLUID	MOTOR				PUMP & MOTOR WT (LB)	MANUFACTURER & MODEL NO.	REMARKS
								LOAD (HP)	SIZE (HP)	EFF. (%)	VOLTAGE & PHASE			
CP-1	INLINE	HOT WATER	3	5	1750	30	WATER	.06	1/12	30	120/1	7	B&G NBF-BS	ALL BRONZE

GAS FIRED WATER HEATER SCHEDULE (WH)														
PLAN CODE	INPUT (MBH)	OUTPUT (MBH)	EFFICIENCY %	FUEL	CAP. (GAL)	RECOVERY RATE (GPH)	TEMP. RISE (°F)	FLUE DIA.	FLUE TYPE	MAX. DIMENSIONS		VOLTAGE & PHASE	MANUFACTURER & MODEL NO.	REMARKS
										DIAMETER (IN)	HEIGHT (N)			
WH-1	300	297	99	NG	130	360	100	4" PVC	PVC	34	74	120/1	AO SMITH BTH-300	DIRECT VENT SEALED COMBUSTION

PLUMBING FIXTURE SCHEDULE							
PLAN CODE	DESCRIPTION	ROUGH-IN SIZE					COMMENTS
		C.W.	H.W.	TEMPERED	WASTE	VENT	
WC-1	WATER CLOSET, STANDARD WALL MOUNT, MANUAL FLUSH VALVE, SIPHON JET, VITREOUS CHINA 1.6 GPF	1"	-	-	3"	2"	KOHLER STRATTON K-4450-C SEAT: BEMIS 1955C FLUSH VALVE: ZURN Z-6000-WS1 COLOR: WHITE FLOOR TO RIM: 15"
WC-2	WATER CLOSET, ADA COMPLIANT, WALL MOUNT, MANUAL FLUSH VALVE, SIPHON JET, VITREOUS CHINA 1.6 GPF	1"	-	-	3"	2"	KOHLER STRATTON K-4450-C SEAT: BEMIS 1955C FLUSH VALVE: ZURN Z-6000-WS1 COLOR: WHITE FLOOR TO RIM: 17"
U-1	URINAL, ADA COMPLIANT, VITREOUS CHINA, SIPHON JET, MANUAL FLUSH VALVE, 1.0 GPF	3/4"	-	-	2"	1 1/2"	KOHLER FRESHMAN K-4989-T FLUSH VALVE: ZURN Z-6003-WS1 BATTERY POWERED SENSOR OPERATED, 0.5 GPF COLOR: WHITE FLOOR TO RIM: 17"
L-1	OVAL, VITREOUS CHINA, COUNTERTOP MOUNTED LAVATORY, LEVER FAUCET, TEMPERATURE LIMIT STOPS, GRID DRAIN, 0.5 GPM	1/2"	-	1/2"	1 1/2"	1 1/2"	KOHLER PENNINGTON K-2196 FAUCET: ZURN Z86500 METERING, 0.25 GPC
S-1	DOUBLE COMPARTMENT, RECTANGULAR STAINLESS STEEL, COUNTERTOP MOUNT SINK, GOOSENECK SWING SPOUT WITH WING HANDLES, SIDE SPRAY NOZZLE, 18 GA.	1/2"	1/2"	-	1 1/2"	1 1/4"	BOWL: ELKAY LR-3322 FAUCET: ELKAY LK-232-S-BH-5 STRAINER: ELKAY LK-35 DISPOSER: IN-SINK-ERATOR 555SS, 3/4 HP (WITH 120V 20AMP CORD AND PLUG)
SH-1	THERMOSTATIC MIXING VALVE WITH LEVER HANDLE, DIVERTER WITH INTEGRAL VOLUME CONTROL, FLEX METAL HOSE SLIDE ROD WITH HAND SHOWER, ADA COMPLIANT, TEMPERATURE LIMIT STOPS, CHECK STOPS	1/2"	1/2"	-	-	-	LEONARD LVC-FS VALVE WITH LEONARD 31SA HEAD
SS-1	CAST IRON 28" LONG, 28" WIDE, 8" HIGH SIDES, 3" GRID DRAIN AND FAUCET WITH VACUUM BREAKER, STOPS, TOP BRACE, CHROME FINISH	3/4"	3/4"	-	3"	2"	SINK: KOHLER WHITBY K-6710 FAUCET: KOHLER K-8928 STRAINER: KOHLER K-9142
EWC-1	BI-LEVEL, SURFACE MOUNT ELECTRIC WATER COOLER	3/8"	-	-	1 1/4"	1 1/4"	OASIS P8AMSL
SC-1	SILLCOCK	3/4"	-	-	-	-	ZURN Z-1320 FREEZE PROOF, VACUUM BREAKER, LOCKABLE WALL BOX
HB-1	BRASS HOSE BIBB, CHROME PLATE FINISH, VACUUM BREAKER, WALL FLANGE	1/2"	-	-	-	-	CHICAGO FAUCETS 952 LOOSE KEY HANDLE 293-6
FD-1	FLOOR DRAIN	-	-	-	2"	1 1/2"	J.R. SMITH FIG. 2005Y-B-P050-CP CAST IRON FLOOR DRAIN. PROVIDE NICKEL BRONZE STRAINER, VANDAL PROOF SCREWS, DEEP SEAL TRAP. SEE DETAIL A2/PL501
FD-2	MECHANICAL ROOM FLOOR DRAIN	-	-	-	SEE PLANS	2"	J.R. SMITH FIG. 2120Y-B-P050-M-XP CAST IRON FLOOR DRAIN. DUCTILE IRON GRATE. TRAP PRIMER CONNECTION AND CLOSURE PLUG. SEE DETAIL A2/PL501
FS-1	FLOOR SINK	-	-	-	SEE PLANS	2"	J.R. SMITH FIG. 3150-Y-ASB 12"x12"x8" SQUARE CAST IRON FLOOR SINK, ENAMEL INTERIOR FINISH, HEAVY DUTY NICKEL BRONZE GRATE, SEDIMENT BUCKET
TD-1	TRENCH DRAIN	-	-	-	SEE PLANS	1 1/2"	J.R. SMITH FIG. 2810 PROVIDE GALVANIZED CAST IRON H-20 GRATE
RD-1	ROOF DRAIN	-	-	-	SEE PLANS	-	J.R. SMITH FIG. 1340T-E-R-C-OD-U SEE DETAIL B1/PL501
OD-1	OVERFLOW DRAIN	-	-	-	SEE PLANS	-	J.R. SMITH FIG. 1340T-WD02-R-C-OD-U SEE DETAIL B2/PL501
DSN-1	DOWNSPOUT NOZZLE	-	-	-	SEE PLANS	-	J.R. SMITH FIG. 1770-BB BRONZE DOWNSPOUT NOZZLE WITH BIRD SCREEN. SEE DETAIL C4/PL501
FCO	ADJUSTABLE FLOOR CLEANOUT	-	-	-	NOTED	-	MIFAB C1100-R SEE DETAIL C2/PL501
WCO	BRONZE LINE CLEANOUT	-	-	-	NOTED	-	MIFAB C1430 SEE DETAIL C1/PL501
COTG	GRADE CLEANOUT, HEAVY DUTY CAST IRON CLEANOUT HOUSING, CAST IRON OR DUCTILE IRON COVER, CAST IRON FERRULE, ABS PLUG, VANDAL PROOF SECURITY SCREWS	-	-	-	NOTED	-	MIFAB C1300-MF PROVIDE SYSTEM IDENTIFICATION CAST INTO COVER. "SAN" FOR SANITARY WASTE AND "STORM" FOR STORM DRAINAGE.

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PROJECT DESCRIPTION
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 CAMP WG WILLIAMS
 RIVERTON, UTAH

SHEET NAME:
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ELECTRICAL
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E101

12/14/05

Table with 4 columns: SYMBOL, DESCRIPTION, MOUNTING, REMARKS. Contains Lighting Symbols including light fixture symbols, wall-mounted fixtures, and emergency lighting.

Table with 4 columns: SYMBOL, DESCRIPTION, MOUNTING, REMARKS. Contains Gear and Control Symbols including manual starters, motors, disconnect switches, and control panels.

Table with 4 columns: SYMBOL, DESCRIPTION, MOUNTING, REMARKS. Contains Wiring Device Symbols including switches, receptacles, dimmers, and sensors.

Table with 4 columns: SYMBOL, DESCRIPTION, MOUNTING, REMARKS. Contains Fire Alarm Symbols including detectors, manual stations, and control modules.

Table with 4 columns: SYMBOL, DESCRIPTION, MOUNTING, REMARKS. Contains Sound System Symbols including speakers, microphones, and control panels.

Table with 3 columns: SYMBOL, DESCRIPTION, REMARKS. Contains Branch Circuiting Symbols including circuit types, conduit stub-ins, and junction boxes.

Table with 4 columns: SYMBOL, DESCRIPTION, MOUNTING, REMARKS. Contains Telephone / Data Symbols including telephone outlets and data outlets.

Table with 4 columns: SYMBOL, DESCRIPTION, MOUNTING, REMARKS. Contains Access Control Symbols including motion detectors, door strikes, locks, and readers.

Table with 4 columns: ABBREVIATION, DESCRIPTION, ABBREVIATION, DESCRIPTION. Contains Abbreviation Schedule for various electrical terms and symbols.



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PROJECT DESCRIPTION
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CAMP WG WILLIAMS
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ELECTRICAL
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E102

LIGHT FIXTURE SCHEDULE

TYPE	MANUFACTURER	SERIES	DESCRIPTION	VOLTAGE	LOAD (VA)	MOUNTING	LAMPS				REMARKS	
							NUMBER	TYPE	HOURS	COLOR (KELVIN)		CRI
AB	McGRAH-EDISON	GL SERIES (FIXTURE) 999 SERIES (POLE)	HIGH PRESSURE SODIUM AREA LIGHT FLAT GLASS LENS TYPE III DISTRIBUTION 20' STEEL POLE 100 MPH WIND LOADING 1/3 GUST FACTOR COLOR SELECTED BY ARCHITECT	208	465	POLE	1	HIGH PRESSURE SODIUM	250	2100	21	
AH	McHILBEN	101	HALL MOUNTED AREA LIGHT MEDIUM THROU DISTRIBUTION IES FULL CUT OFF W/ PHOTOCCELL COLOR SELECTED BY ARCHITECT	208	216	WALL	1	HIGH PRESSURE SODIUM	150	2100	21	
AHE	McHILBEN	101	HALL MOUNTED AREA LIGHT MEDIUM THROU DISTRIBUTION IES FULL CUT OFF W/ PHOTOCCELL COLOR SELECTED BY ARCHITECT	208	216	WALL	1	HIGH PRESSURE SODIUM	150	2100	21	
C42	METALUX	99 SERIES	COMMERCIAL WIDE STRIP LIGHT 48" LONG X 4" WIDE X 4" DEEP (1) ELECTRONIC BALLAST	120	64	SURFACE	2	48" LINEAR T8 FLUORESCENT	32	3500	82	
DF1	POTFOLIO	PD6 SERIES	COMPACT FLUORESCENT DOWNLIGHT 6" DIAMETER CLEAR ALZAK REFLECTOR 18" LONG X 11" WIDE X 9" DEEP VERTICAL LAMP ORIENTATION DAMP LOCATION RATED (UNDER CANOPY) (1) ELECTRONIC BALLAST	120	32	RECESSED	1	COMPACT FLUORESCENT 4-PIN SOCKET AVALGAN1	32	3500	82	
DF2	PORTFOLIO	H2F SERIES	COMPACT FLUORESCENT DOWNLIGHT 10" CEILING OPENING WITH GLASS DROP OPAL SPLAT 14" LONG X 18" WIDE X 6" DEEP HORIZONTAL LAMP ORIENTATION HET LOCATION RATED (SHOWER) (1) ELECTRONIC BALLAST	120	52	RECESSED	2	COMPACT FLUORESCENT 4-PIN SOCKET AVALGAN1	26	3500	82	
DH	PORTFOLIO	M1800T-630	HIGH PRESSURE SODIUM DOWNLIGHT 1" DIAMETER CLEAR ALZAK REFLECTOR 21" LONG X 16.75" WIDE X 10.125" DEEP VERTICAL LAMP ORIENTATION QUARTZ RESTRIKE	120	40	RECESSED	1	HIGH PRESSURE SODIUM	10	2100	21	
DHE	PORTFOLIO	M1800T-630	HIGH PRESSURE SODIUM DOWNLIGHT 1" DIAMETER CLEAR ALZAK REFLECTOR 21" LONG X 16.75" WIDE X 10.125" DEEP VERTICAL LAMP ORIENTATION QUARTZ RESTRIKE	120	100	RECESSED	1	HIGH PRESSURE SODIUM QUARTZ HALOGEN	10	2100	21	
GA2	METALUX	26P SERIES	RECESSED STATIC TROFFER 125" THICK #2 PATTERN ACRYLIC LENS 48" LONG X 24" WIDE X 4" DEEP (1) ELECTRONIC BALLAST	120	64	LAY-IN GRID	2	48" LINEAR T8 FLUORESCENT	32	3500	82	
GA3	METALUX	26P SERIES	RECESSED STATIC TROFFER 125" THICK #2 PATTERN ACRYLIC LENS 48" LONG X 24" WIDE X 4" DEEP (2) ELECTRONIC BALLAST	120	46	LAY-IN GRID	3	48" LINEAR T8 FLUORESCENT	32	3500	82	
GA3D	METALUX	26P SERIES	RECESSED STATIC TROFFER 125" THICK #2 PATTERN ACRYLIC LENS 48" LONG X 24" WIDE X 4" DEEP (1) ELECTRONIC DIMMING BALLAST	120	46	LAY-IN GRID	3	48" LINEAR T8 FLUORESCENT	32	3500	82	
GF3	METALUX	2EP3GAX SERIES	RECESSED STATIC TROFFER LOW IRIDESCENT, SEMI-SPECULAR SILVER, 18 CELL LOUVER 48" LONG X 24" WIDE X 6" DEEP (2) ELECTRONIC BALLAST	120	46	LAY-IN GRID	3	48" LINEAR T8 FLUORESCENT	32	3500	82	
GF3D	METALUX	2EP3GAX SERIES	RECESSED STATIC TROFFER LOW IRIDESCENT, SEMI-SPECULAR SILVER, 18 CELL LOUVER 48" LONG X 24" WIDE X 6" DEEP (1) ELECTRONIC DIMMING BALLAST	120	46	LAY-IN GRID	3	48" LINEAR T8 FLUORESCENT	32	3500	82	
HF1	HOLOPHANE	FRISHTRON FRISHLO AURORA SERIES	PENDANT POINT LOW BAY FIXTURE GLASS REFLECTOR 25" CORD W/HP CONTINUOUS DIMMING BALLAST MASTER WITH BALLAST & SLAVE (2) FIXTURES	208	416	PENDANT	2	METAL HALIDE	320	3500	82	
HFIE	HOLOPHANE	FRISHTRON FRISHLO AURORA SERIES	PENDANT POINT LOW BAY FIXTURE GLASS REFLECTOR 25" CORD W/HP CONTINUOUS DIMMING BALLAST MASTER WITH BALLAST & SLAVE (2) FIXTURES QUARTZ RESTRIKE	208	416	PENDANT	1	METAL HALIDE BAYONET TUNGSTEN HALOGEN	320	3500	82	
HF2	PORTFOLIO	PD6	METAL HALIDE DOWN LIGHT 6" DIAMETER CLEAR ALZAK REFLECTOR 26" LONG X 11" WIDE X 9" DEEP VERTICAL LAMP ORIENTATION (1) ELECTRONIC BALLAST	120	45	RECESSED	1	METAL HALIDE MEDIUM BASE SOCKET UNIVERSAL BURN COATED	10	3500	65	
TS	HALO	L652	8" MINIATURE TRACK LINE VOLTAGE SINGLE CIRCUIT COLOR SELECTED BY ARCHITECT	120	75W/FT	SURFACE	1	PAR 30 CAP NARROW FLOOD 25 DEGREE BEAM SPREAD	150	2100	100	
TH	HALO	L401 SERIES (TRACK HEAD) MINIATURE SINGLE CIRCUIT SERIES (TRACK)	ROUNDBACK CYLINDER WITH BLACK BAFFLE 7" LONG X 6" WIDE X 10" DEEP SATIN WHITE FIXTURE BODY AND TRACK	120	75	HEAD (TRACK)	1	PAR 30 CAP NARROW FLOOD 25 DEGREE BEAM SPREAD	75	2100	100	
SH2	METALUX	H5 SERIES	SURFACE W/RAPOUND ACRYLIC PRISMATIC DIFFUSER 48" LONG X 10" WIDE X 3" DEEP (1) ELECTRONIC BALLAST	120	64	SURFACE	2	48" LINEAR T8 FLUORESCENT	32	3500	82	
HF1	METALUX	BE SERIES	HALL BRACKET ACRYLIC PRISMATIC DIFFUSER 44" LONG X 8" WIDE X 4" DEEP (1) ELECTRONIC BALLAST	120	64	SURFACE	2	48" LINEAR T8 FLUORESCENT	32	3500	82	
VF	NRL	IFEF32F	VARIABLE ENCLOSED AND GASKETED WITH GUARD & FEED THRU J-BOX CORROSION RESISTANT	120	40	SURFACE	1	TRIPLE TUBE COMPACT FLUORESCENT	32	4100	80	
XI	SURE-LITES	LPX SERIES	POLYCARBONATE LED EXIT SIGN PREMIUM DEEP GREEN LETTERS SELF-POWERED WITH SEALED NICKEL CADMIUM BATTERY WHITE BODY	120	10	UNIVERSAL	1	LAMP INCLUDED	4	N/A	N/A	

LIGHT FIXTURE ABBREVIATION SCHEDULE

NOTE: NOT ALL ABBREVIATIONS WILL NECESSARILY BE USED.

A.F.F. ABOVE FINISHED FLOOR

WALL@CLG. WALL MOUNT AT CORNER OF WALL AND CEILING

COBA CUSTOM PAINTED COLOR AS SELECTED BY THE ARCHITECT

SOBA STANDARD PAINTED COLOR AS SELECTED BY THE ARCHITECT

CFBA CUSTOM FINISH AS SELECTED BY THE ARCHITECT

SFBA STANDARD FINISH AS SELECTED BY THE ARCHITECT

MOD MODIFY STANDARD LIGHT FIXTURE AS INDICATED

ELECTRICAL DRAWING SET GENERAL NOTES

- REFER TO THE ARCHITECTURAL REFLECTED CEILING PLANS FOR LOCATIONS OF LIGHT FIXTURES. BRING ALL DISCREPANCIES OF LOCATIONS AND QUANTITIES TO THE ATTENTION OF THE ARCHITECT AND ELECTRICAL ENGINEER PRIOR TO BIDDING.
- REFER TO ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHTS AND LOCATIONS OF LIGHT FIXTURES. BRING ALL DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT PRIOR TO BIDDING.
- REFER TO THE SPECIFICATIONS FOR OTHER LIGHT FIXTURE, BALLAST, AND LAMP REQUIREMENTS AND ACCEPTABLE MANUFACTURERS.
- COORDINATE LOCATION & MOUNTING HEIGHTS OF ALL LIGHT FIXTURES WITH ARCHITECTURAL INTERIOR DRAWINGS.

BIDDING REQUIREMENTS

- BID ONLY PRODUCTS THAT ARE SPECIFIED OR APPROVED BY ADDENDUM.
- PACKAGING OF LIGHT FIXTURES WITH OTHER SYSTEMS IS NOT ALLOWED.
- WHEN ONLY ONE PRODUCT IS APPROVED FOR BIDDING, THE PRICE FOR THAT ITEM SHALL BE BROKEN OUT SEPARATELY WHEN SUBMITTING PRICINGS TO VARIOUS DISTRIBUTORS AND/OR CONTRACTORS.
- WHEN A CONTRADICTION EXISTS BETWEEN A SPECIFIC MODEL NUMBER AND THE DESCRIPTION, THE DESCRIPTION SHALL GOVERN.

PRIOR APPROVAL REQUIREMENTS

- PRIOR APPROVAL IS REQUIRED BEFORE BIDDING THIS PROJECT.
- PRIOR APPROVALS SHALL BE SUBMITTED TO THE ELECTRICAL ENGINEER'S OFFICE AT LEAST (8) EIGHT WORKING DAYS BEFORE THE BID. PRIOR APPROVALS RECEIVED AFTER THIS TIME PERIOD SHALL BE REJECTED.
- PRIOR APPROVALS SHALL BE SIGNED BY A PRINCIPAL OF THE SUBMITTING ORGANIZATION STATING THAT THEY HAVE PREPARED AND/OR REVIEWED THE SUBMITTAL AND THAT THE PRODUCTS PROPOSED ARE EQUIVALENT TO THOSE SPECIFIED. ANY EXCEPTIONS SHALL BE SO NOTED.
- ITEMS THAT ARE SUBMITTED AND HAVE BEEN APPROVED WILL BE LISTED IN THE ADDENDUM(S). VERBAL APPROVAL WILL NOT BE GIVEN ON ANY ITEM.
- IT IS NOT THE RESPONSIBILITY OF THE ELECTRICAL ENGINEER TO NOTIFY THE SUBMITTING PARTY OF ERRORS IN THE SUBMITTAL. NOTIFICATION OF ERRORS BY THE ELECTRICAL ENGINEER PRIOR TO ISSUANCE OF THE ADDENDUM(S) MAY NOT BE GIVEN.
- PRIOR APPROVALS SHALL CONSIST OF TWO SETS OF CUT SHEETS DESCRIBING THE PRODUCTS BEING SUBMITTED AS EQUIVALENTS. FAXES ARE NOT ACCEPTABLE. ALL SPECIFICATION INFORMATION SHALL BE CLEARLY MARKED, WITH NON-APPLICABLE INFORMATION CROSSED OUT. COMPLETE PHOTOMETRIC DATA SHALL BE PROVIDED. PRODUCTS WITHOUT PHOTOMETRIC DATA WILL BE NOT BE APPROVED.
- PARKING LOT LIGHTS, BOLLARDS AND CROCK NECK WALL FIXTURES, SHOWROOM TRACK AND TRACK HEADS SHALL BE PROVIDED AS SPECIFIED, NO EQUALS SHALL BE ALLOWED.
- POINT BY POINT LAY-OUTS ARE REQUIRED FOR THE FOLLOWING AREAS: ASSEMBLY HALL AND WALL PACKS.

LIGHTING RELAY PANEL SCHEDULE

Panel Address: _____
Front Name: LCP
Panel Capacity: 24
Installed Relays: 16

Relay	Circuit	Load Controlled	Poles	Switch/VOL	Channel											
					A	B	C	D	E	F	G	H				
1	L-11	LOBBY TRACK LIGHTING	1	SWITCH												
2	L-15	MAIN LEVEL CORRIDOR LIGHTING	1	SWITCH	X											
3	L-21	HALL PACKS	2	SWITCH		X										
4	L-6	2ND LEVEL CORRIDOR LIGHTING	1	SWITCH	X											
5	L-12	LOBBY LIGHTING	1	SWITCH	X											
6	L-24	SITE LIGHTING	2	SWITCH		X										
7	L-3	ASSEMBLY HALL LIGHTS	2	SWITCH	X											
8	L-9	ASSEMBLY HALL LIGHTS	2	SWITCH	X											
9	L-16	MAIN ENTRY CANOPY LIGHTS	1	SWITCH		X										
10	L-18	HALL PACKS	2	SWITCH	X											
12	L-22	DISPLAY CABINETS	1	SWITCH	X											
13		SPARE	1	SWITCH	X											
14																
15																
16																
17																
18																
19																
20		PROVIDE EMERGENCY BARRIER														
21	EP2-16	HALL PACKS	1			X										
22	EP2-4	BT LIGHTING 1ST LEVEL	1				X									
23	EP2-6	ASSEMBLY HALL EGRESS LIGHTS	2					X								
24	EP2-10	BT LIGHTING 2ND LEVEL	1						X							

Channel	Description
A	TIMED ON, TIMED OFF, OVERRIDE SWITCH ON. LIGHTS TURN ON DURING NORMAL BUSINESS HOURS
B	PHOTOCCELL ON/OFF, TIMED ON/OFF
C	TIMED ON, TIMED OFF. LIGHTS TURN ON DURING NORMAL BUSINESS HOURS, LIGHTS ON DURING LOSS OF POWER
D	TIMED ON, TIMED OFF. LIGHTS TURN ON DURING NORMAL BUSINESS HOURS
E	
F	
G	
H	

LIGHTING AND APPLIANCE PANELBOARD SCHEDULE

PANEL NAME: L TYPE: N00D CIRCUIT BREAKERS: BOLT ON / PLUG ON 120 / 208 VOLTAGE 3 PH 4 W

ENGRAVED NAME TAGS BUS MATERIAL: ALUM BUS / CU BUS GROUND: GROUND BUS / ISOL GND BUS NEUTRAL: 100% / 200% LUGS: MAIN / SUB-FEED / FEED-THROUGH MAIN BREAKER: AFPS / BUS AFPS: 225

BRANCH BREAKERS

NOTES	ITEM	A/F/P	POLE	WIRE SIZE	CIR. NO.	LEFT PHASE LOAD			RIGHT PHASE LOAD			CIR. NO.	A/F/P	WIRE SIZE	ITEM	NOTES
						A	B	C	A	B	C					
	UNIT STORAGE AREA LTG	20	1	12	1	830			460			2	20	1	12	CLASS RM 201 LTG
	ASSEMBLY HALL LTG	20	2	12	3		1000				460	4	20	1	12	CLASS RM 206 LTG
	SPARE	20	1	12	5						460	6	20	1	12	LVL 2 CORRIDOR LTG
	VEHICLE TRAINING BAY LTG	20	1	12	7	1568		1000			460	8	20	1	12	WORK AREA 202 LTG
	ELECTRICAL TEL LTG	20	1	12	9		640			1024	10	20	1	12	LIBRARY LTG	
	104, 105 LTG	20	1	12	11			152			400	12	20	1	12	LOBBY LTG
	104, 105, 106, 107	20	1	12	13	1088			446		14	20	1	12	BREAK RM LTG	
	LVL 1 CORRIDOR LTG	20	1	12	15		1088			150	16	20	1	12	MAIN ENTRY CANOPY LTG	
	TRACK LTG	20	1	12	17			1200		162	18	20	2	10	HALL PACKS	
	ELEV. EQ. RM LTG	20	1	12	19	64					20	20	1	12	LOBBY DISPLAY CABINETS	
	ELEV. PIT LTG C.O.	20	1	12	21		280			360	22	20	1	12	LOBBY DISPLAY CABINETS	
	MEN'S, WOMEN'S LOCKERS LTG	20	1	12	23			152			24	20	1	12	SPARE	
	FITNESS LTG	20	1	12	25	516					26	20	1	12	SPARE	
	HALL PACKS	20	2	12	27		188				28	20	1	12	SPARE	
	POLE LTS	20	2	12	31			188			30	20	1	12	SPARE	
	SPARE	20	1	12	33						32	20	1	12	SPARE	
	SPARE	20	1	12	35						34	20	1	12	SPARE	
	SPARE	20	1	12	37						36	20	1	12	SPARE	
	SPARE	20	1	12	39						38	20	1	12	SPARE	
	SPARE	20	1	12	41						40	20	1	12	SPARE	
	SPARE	20	1	12	43						42	20	1	12	SPARE	
	SPARE	20	1	12	45						44	20	1	12	SPARE	
	SPARE	20	1	12	47						46	20	1	12	SPARE	
	SPARE	20	1	12	49						48	20	1	12	SPARE	
	SPARE	20	1	12	51						50	20	1	12	SPARE	
	SPARE	20	1	12	53						52	20	1	12	SPARE	
	SPARE	20	1	12	55						54	20	1	12	SPARE	
	SPARE	20	1	12	57						56	20	1	12	SPARE	
	SPARE	20	1	12	59						60	20	1	12	SPARE	
	SPARE	20	1	12	61						62	20	1	12	SPARE	
	SPARE	20	1	12	63						64	20	1	12	SPARE	
	SPARE	20	1	12	65						66	20	1	12	SPARE	
	SPARE	20	1	12	67						68	20	1	12	SPARE	
	SPARE	20	1	12	69						70	20	1	12	SPARE	
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	SPARE	20	1	12	75						76	20	1	12	SPARE	
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	SPARE	20	1	12	133						134	20	1	12	SPARE	
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	SPARE	20	1	12	137						138	20	1	12	SPARE	
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	SPARE	20	1	12	211						212	20	1	12	SPARE	
	SPARE	20	1	12	213						214	20	1	12	SPARE	
	SPARE	20	1	12	215						216	20	1	12	SPARE	
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	SPARE	20	1	12	233						234	20	1	12	SPARE	
	SPARE	20	1	12	235						236	20	1	12	SPARE	
	SPARE	20	1	12	237						238	20	1	12	SPARE	
	SPARE															

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PROJECT DESCRIPTION

UTAH NATIONAL
GUARD 144th
COMPANY
READINESS
CENTER

CAMP WG WILLIAMS
RIVERTON, UTAH

ELECTRICAL
PANEL SCHEDULES

REVISIONS

MARK DATE DESCRIPTION

ISSUE DATA

ISSUE DATE: DEC. 2005
ISSUE TYPE: CONDOCS
DRAWN BY: JB
CHECKED BY: JRO

DFCM PROJECT # 04042480

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E104

LIGHTING AND APPLIANCE PANELBOARD SCHEDULE
PANEL NAME: EP1 TYPE: N300
CIRCUIT BREAKERS: BOLT ON PLUG ON
120 / 208 VOLTAGE 3 PH 4 W
 ENGRAVED NAME TAGS
BUS MATERIAL: ALUM BUS GROUND BUS CU BUS
GROUND: GROUND BUS ISOL GND BUS
NEUTRAL: 100% 200%
LUGS: MAIN SUB-FEED FEED-THROUGH
MAIN BREAKER: A/FPS
BUS A/FPS: 100

BRANCH BREAKERS

NOTES	ITEM	A/FPS	POLE	WIRE SIZE	CIR. NO.	LEFT PHASE LOAD			RIGHT PHASE LOAD			CIR. NO.	A/FPS	POLE	WIRE SIZE	ITEM	NOTES
						A	B	C	A	B	C						
	WORK AREA 20216 C.O.	20	1	12	1	540			540			2	20	1	12	G.O.S CLASSR1 201	
	WORK AREA 20216 C.O.	20	1	12	3	540			540			4	20	1	12	G.O.S CLASSR1 201	
	SYSTEMS FURNITURE	20	1	12	5			1000		540		6	20	1	12	G.O.S CLASSR1 206	
	FRIDGE	20	1	12	7	1000			540		8	20	1	12	G.O.S CLASSR1 206		
	OFFICE 104, 105 16 C.O.	20	1	12	9		360			540		10	20	1	12	CONF RM 108	
	OFFICE 106, 107 16 C.O.	20	1	12	11			360		540		12	20	1	12	ROOM 104	
	VEHICLE SH. ROOM 16 C.O.	20	1	12	13	360			1000		14	20	1	12	SOUND SYSTEM		
	PHONE BOARD	20	1	12	15		120			280		16	20	1	12	ELEV. EQUIP. LIGHT	
	IDS PANEL	20	1	12	17					64		18	20	1	12	ELEV. PIT LIGHT	
	ASSEMBLY HALL C.O.#	20	1	12	19	540					20	20	1		SPARE		
	ASSEMBLY HALL C.O.#	20	1	12	21		540				22	20	1		SPARE		
	ASSEMBLY HALL C.O.#	20	1	12	23			360			24	20	1		SPARE		
	SPARE	20	1		25						26	20	1		SPARE		
	SPARE	20	1		27						28	20	1		SPARE		
	SPARE	20	1		29						30	20	1		SPARE		
						2440	2160	2080	2080	1360	1144						
						4520	3520	3224									
						38	21	21									

FEEDER ENTRY: TOP BOTTOM
FRONT: STANDARD HINGED DOOR-IN-DOOR

MOUNTING: FLUSH SURFACE SURFACE W/ SKIRT ABOVE SURFACE W/ SKIRT BELOW

TVSS: NONE CATEGORY "1" CATEGORY "2" CATEGORY "A"

NEHA RATINGS: NEHA I NEHA 3R NEHA 4X NEHA 12 STAINLESS STEEL

TOTAL CONNECTED LOAD: 11264
SHORT CIRCUIT RATING: SERIES - RATED FULLY - RATED
42,000 A/FPS R15 97M

REFER TO ONE-LINE DIAGRAM FOR FEEDER, CONDUIT AND CONDUCTOR SIZES

LIGHTING AND APPLIANCE PANELBOARD SCHEDULE
PANEL NAME: EP2 TYPE: N300
CIRCUIT BREAKERS: BOLT ON PLUG ON
120 / 208 VOLTAGE 3 PH 4 W
 ENGRAVED NAME TAGS
BUS MATERIAL: ALUM BUS GROUND BUS CU BUS
GROUND: GROUND BUS ISOL GND BUS
NEUTRAL: 100% 200%
LUGS: MAIN SUB-FEED FEED-THROUGH
MAIN BREAKER: A/FPS
BUS A/FPS: 100

BRANCH BREAKERS

NOTES	ITEM	A/FPS	POLE	WIRE SIZE	CIR. NO.	LEFT PHASE LOAD			RIGHT PHASE LOAD			CIR. NO.	A/FPS	POLE	WIRE SIZE	ITEM	NOTES
						A	B	C	A	B	C						
	PANEL LCP	20	1	12	1	500			512			2	20	1	12	UNIT STOR. AREA EM LIGHTING	
	SPACE	20	1		3				868			4	20	1	12	LVL 1 CORR. EM LIGHTING	
	SPACE	20	1		5					216		6	20	2	12	ASSEMBLY HALL EM LIGHTING	
	SPACE	20	1		7							8					
	SPACE	20	1		9				842			10	20	1	12	LVL 2 EM LIGHTING	
	SPACE	20	1		11					180		12	20	1	12	FACP	
	SPACE	20	1		13				120			14	20	1	12	ELEC. ROOM EM LIGHTS	
	SPACE	20	1		15					200		16	20	1	10	UNDER CANOPY LIGHTS	
	SPACE	20	1		17							18	20	1	12	EXIT SIGNS	
	SPACE	20	1		19							20	20	1		SPARE	
	SPACE	20	1		21							22	20	1		SPARE	
	SPACE	20	1		23							24	20	1		SPARE	
	SPACE	20	1		25							26	20	1		SPARE	
	SPACE	20	1		27							28	20	1		SPARE	
	SPACE	20	1		29							30	20	1		SPARE	
						500	0	0	928	1460	546						
						1408	1460	546									
						12	16	5									

FEEDER ENTRY: TOP BOTTOM
FRONT: STANDARD HINGED DOOR-IN-DOOR

MOUNTING: FLUSH SURFACE SURFACE W/ SKIRT ABOVE SURFACE W/ SKIRT BELOW

TVSS: NONE CATEGORY "1" CATEGORY "2" CATEGORY "A"

NEHA RATINGS: NEHA I NEHA 3R NEHA 4X NEHA 12 STAINLESS STEEL

TOTAL CONNECTED LOAD: 3464
SHORT CIRCUIT RATING: SERIES - RATED FULLY - RATED
42,000 A/FPS R15 97M

REFER TO ONE-LINE DIAGRAM FOR FEEDER, CONDUIT AND CONDUCTOR SIZES

EQUIPMENT SCHEDULE

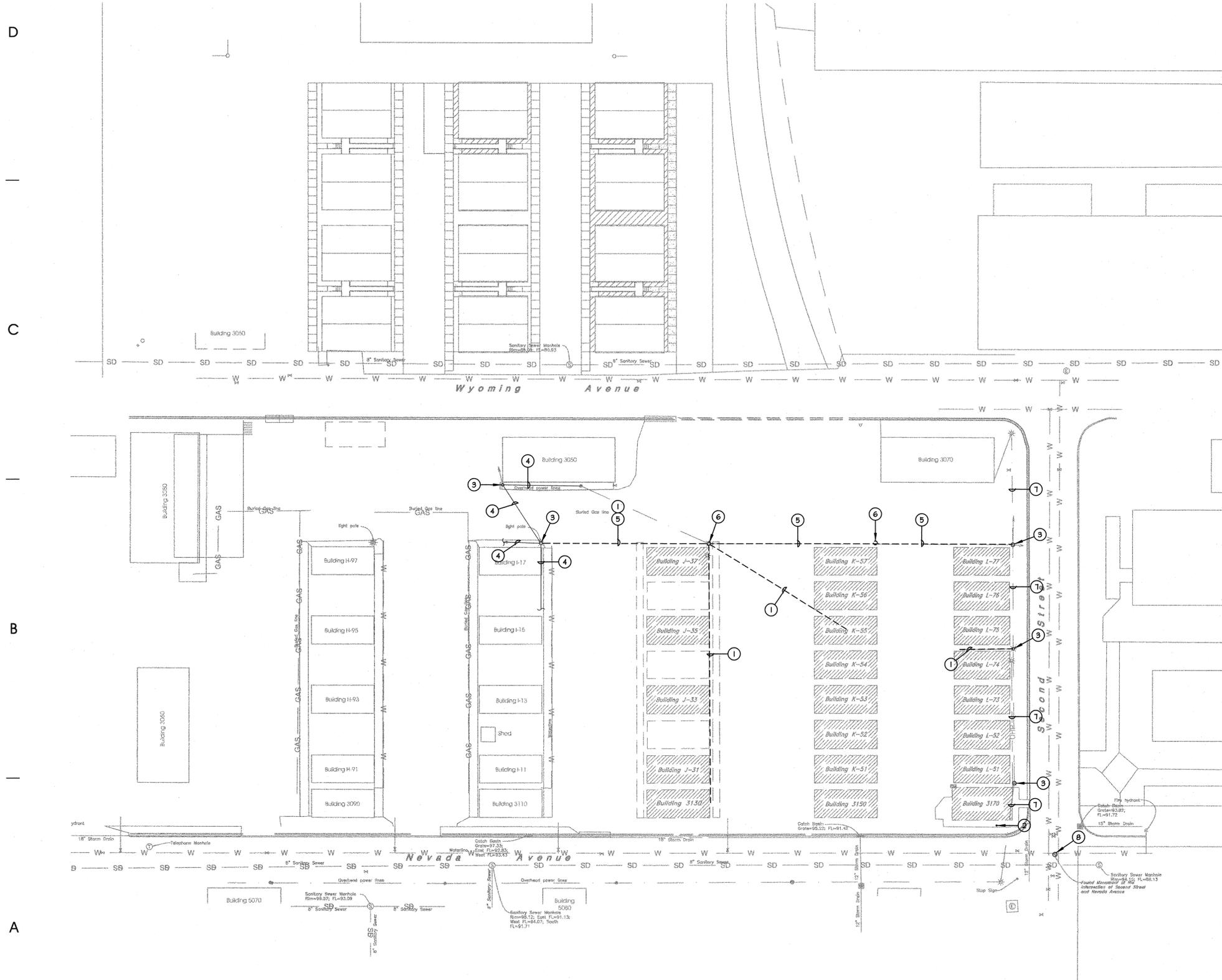
UNIT NAME	DESCRIPTION	LOAD	TYPE	VOLTAGE	PHASE	AMPERAGE	CONDUIT SIZE	WIRES		STARTER / DISCONNECT / CONNECTION AT UNIT	REMARKS
								NO.	SIZE		
B-1	CONDENSING BOILER	5	A/FPS	120	1	5	3/4"	2	12	16A	
B-2	CONDENSING BOILER	5	A/FPS	120	1	5	3/4"	2	12	16A	
C-1	COMPRESSOR	1/3	HP	120	1	1.2	3/4"	2	12	1A	
CP-1	CIRCULATING PUMP	1/2	HP	120	1	0.6	3/4"	2	12	1A	
CU-1	CONDENSING UNIT	11	MCA	208	1	4.4	3/4"	2	12	4A	NEHA O
EF-1	EXHAUST FAN	1/4	HP	120	1	5.8	3/4"	2	12	1A	
EF-2	EXHAUST FAN	1/4	HP	120	1	5.8	3/4"	2	12	1A	
EF-3	EXHAUST FAN	1/6	HP	120	1	4.4	3/4"	2	12	1A	
EV-1	ELEVATOR	20	HP	208	3	6.2J	1-1/2"	3	210	10A	
FC-1	FAN COIL UNIT	1 1/2	HP	208	3	6.9	3/4"	3	12	4A	NEHA O
FC-2	FAN COIL UNIT	3/4	HP	208	3	3.7	3/4"	3	12	4A	NEHA O
FC-3	FAN COIL UNIT	1/6	HP	120	1	0.4	3/4"	2	12	1A	
FC-4	FAN COIL UNIT	1/6	HP	120	1	0.4	3/4"	2	12	1A	
FC-5	FAN COIL UNIT	1/6	HP	120	1	0.4	3/4"	2	12	1A	
FC-6	FAN COIL UNIT	1/20	HP	208	1	0.3	3/4"	2	12	4A	NEHA O
F-1	FUPP	1/2	HP	208	3	2.5	3/4"	3	12	4A	NEHA O
F-2	FUPP	1	HP	208	3	4.8	3/4"	3	12	4A	NEHA O
F-3	FUPP	1	HP	208	3	4.8	3/4"	3	12	5B, 12A	
F-4	FUPP	1	HP	208	3	4.8	3/4"	3	12	5B, 12A	
RH-1	RADIANT HEATER	0.3	FLA	120	1	0.3	3/4"	2	12	1A	
RU-1	ROOF TOP UNIT	11	MCA	208	3	16.4	2"	3	310	5B, 12A	
VEH-1	VEHICLE EXHAUST	1	HP	208	3	4.8	3/4"	3	12	4A	NEHA O
WH-1	WATER HEATER	6.25	A/FPS	120	1	6.25	3/4"	2	12	16A	
WH-2	WATER HEATER	8.32	KH	208	3	25J	3/4"	3	10	14A	

SIZE ALL FUSES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

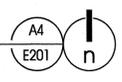
STARTER / DISCONNECT NOTES:
1. MANUAL STARTER WITH THERMAL OVERLOAD
2. MANUAL STARTER WITH THERMAL OVERLOAD PROTECTION & LOH VOLTAGE RELAY / CONTACTOR FOR ATC CONTROL
3. COMBINATION MAGNETIC STARTER / FUSED DISCONNECT
4. COMBINATION MAGNETIC STARTER / MOTOR CIRCUIT PROTECTOR (MCP)
5. COMBINATION VARIABLE FREQUENCY DRIVE / MOTOR CIRCUIT PROTECTOR (MCP)
6. REDUCED VOLTAGE STARTER
7. COMBINATION THO-SPEED STARTER / FUSED DISCONNECT
8. COMBINATION THO-SPEED STARTER / MOTOR CIRCUIT PROTECTOR (MCP)

INSTALLATION NOTES:
A. FURNISHED, INSTALLED, & CONNECTED UNDER DIVISION 16.
B. FURNISHED & INSTALLED UNDER ANOTHER DIVISION REQUIRING CONNECTIONS UNDER DIVISION 16.
C. FURNISHED UNDER ANOTHER DIVISION BUT INSTALLED AND CONNECTED UNDER DIVISION 16.
D. FURNISHED, INSTALLED, & CONNECTED UNDER ANOTHER DIVISION
E. FURNISHED BY OWNER, INSTALLED & CONNECTED BY DIVISION 16

R:\2004-127.00 - Camp Williams Med Unit Readiness Response - AJC\ElectE201.dwg, 12/14/2005 8:41:33 AM, dwg, Owen & Associates LC.



ELECTRICAL SITE DEMOLITION PLAN
SCALE: 1" = 30'-0"



5
GENERAL NOTES AND LEGEND:
FOR SHEET E201 ONLY.

1. COORDINATE ALL UTILITY DEMOLITION WORK WITH THE OWNER PRIOR TO WORK.

KEYED NOTE LEGEND:
FOR SHEET E201 ONLY.

- ① DISCONNECT AND REMOVE EXISTING ARIAL SERVICE CONDUCTORS FEEDING EXISTING BUILDINGS WHICH WILL BE DEMOLISHED.
- ② REMOVE EXISTING COMMUNICATIONS CABLE BACK TO THE SOURCE (VIA TELECOMMUNICATIONS MANHOLE) FEEDING BUILDING 3170. EXISTING 4" CONDUIT WILL BE USED FOR NEW COMMUNICATIONS SERVICE. REFER TO SITE PLAN.
- ③ EXISTING UTILITY POLE TO REMAIN.
- ④ EXISTING ARIAL SERVICE CONDUCTORS SHALL REMAIN.
- ⑤ DISCONNECT AND REMOVE EXISTING PRIMARY ARIAL CONDUCTORS INTERFERING WITH NEW CONSTRUCTION. REFER TO SITE PLAN FOR NEW REQUIREMENTS.
- ⑥ DISCONNECT AND REMOVE UTILITY POLE COMPLETE.
- ⑦ EXISTING PRIMARY CONDUCTORS TO REMAIN.
- ⑧ EXISTING TELECOMMUNICATIONS MANHOLE SHOWN FOR REFERENCE.

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PROJECT DESCRIPTION
UTAH NATIONAL
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CENTER

CAMP WG WILLIAMS
RIVERTON, UTAH

ELECTRICAL
SITE DEMOLITION PLAN

REVISIONS

MARK	DATE	DESCRIPTION

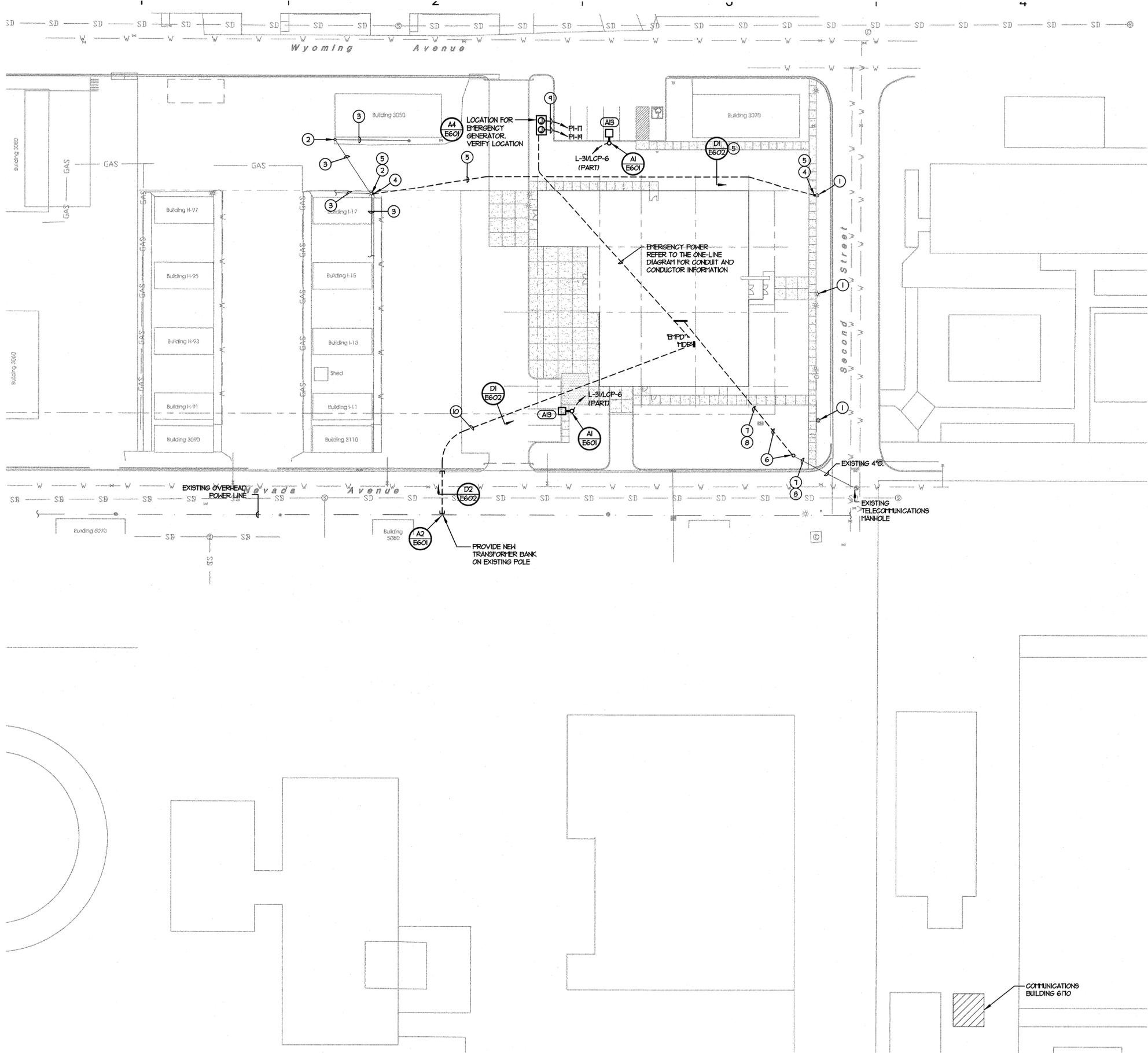
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ISSUE DATE: DEC. 2005
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E201





ELECTRICAL SITE PLAN
SCALE: 1" = 30'-0"

GENERAL NOTES AND LEGEND:
FOR SHEET E202 ONLY.

KEYED NOTE LEGEND:
FOR SHEET E202 ONLY.

- 1 EXISTING UTILITY POLE AND AERIAL LINES RUNNING NORTH AND SOUTH ALONG SECOND STREET TO REMAIN. REFER TO ELECTRICAL SITE DEMOLITION PLAN.
- 2 EXISTING UTILITY POLES PROVIDING ELECTRICAL SERVICE TO BUILDINGS, WHICH WILL NOT BE DEMOLISHED, SHALL REMAIN. REFER TO ELECTRICAL SITE DEMOLITION PLAN.
- 3 EXISTING AERIAL SERVICE CONDUCTORS SHALL REMAIN.
- 4 PROVIDE 4" POWER RISER COMPLETE WITH STAND OFFS ON EXISTING UTILITY POLE TO ROUTE NEW HV CABLE VIA DUCT BANK. PROVIDE 15KV EPR COPPER CABLE IN SIZE TO MATCH EXISTING OVERHEAD LINES. CONNECT CABLE TO EXISTING HV OVERHEAD LINE ON BOTH ENDS. THREE CONDUCTORS SHALL BE PROVIDED TO REPLACE THREE OVERHEAD LINES WHICH ARE TO BE REMOVED DURING DEMOLITION. COIL UNUSED CONDUCTORS FOR FUTURE USE.
- 5 CONCRETE ENCASED DUCT BANK WITH HV CABLE TO RESTORE INTERRUPTED SERVICE TO BUILDINGS WEST OF THE PROJECT BUILDINGS. PROVIDE RIGID ELBOWS AT BASE OF UTILITY POLES. STUB UP AND GAP SPARE CONDUIT 6" ABOVE FINISHED GRADE.
- 6 EXISTING 4" CONDUIT STUB UP LOCATION. REMOVE ELBOW AND EXTEND CONDUIT TO TELEPHONE TERMINAL BOARD.
- 7 PROVIDE (4) 1" INNER DUCTS FROM EXISTING TELECOMMUNICATIONS MANHOLE INDICATED IN NEW AND EXISTING CONDUIT. PROVIDE FULL ROPE IN (1) INNER DUCT FOR FUTURE USE.
- 8 EXTEND (1) 50 PAIR PLUS (1) 4 PAIR COPPER TELEPHONE, (1) 12 PAIR FIBER TO COMMUNICATIONS BUILDING 6110 VIA (3) INNER DUCTS (INDICATED BY KEYED NOTE 7) TO EXISTING MANHOLE SHOWN AND OTHER TELECOMMUNICATIONS MANHOLES ON SECOND STREET. CABLES SHALL BE WEATHER RESISTANT. THE 4 PAIR COPPER CABLE SHALL BE ROUTED TO THE GUARD SHACK. VERIFY LOCATION WITH THE GUARD.
- 9 CIRCUITS FOR ENGINE BLOCK HEATER AND CHARGER.
- 10 ELECTRICAL SERVICE CONDUITS; REFER TO THE ONE-LINE DIAGRAM FOR CONDUIT AND CONDUCTOR REQUIREMENTS.

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PROJECT DESCRIPTION

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CAMP WG WILLIAMS
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**ELECTRICAL
SITE PLAN**

REVISIONS

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E202

5
GENERAL NOTES AND LEGEND:
 FOR SHEET E301 ONLY.

1. ALL SENSOR LOCATIONS ARE APPROXIMATE. REFER TO MANUFACTURERS INSTALLATION INSTRUCTIONS PRIOR TO INSTALLATION.
2. ULTRASONIC CEILING MOUNT SENSORS REQUIRE THEY BE LOCATED NO CLOSER THAN 6' TO AIR SUPPLY RETURN REGISTERS.
3. LIGHTING CONTROL SHALL BE COMMISSIONED BY FACTORY AUTHORIZED PERSONELL ON SITE. (4) HOURS OF OWNER TRAINING SHALL ALSO BE INCLUDED.

KEYED NOTE LEGEND:
 FOR SHEET E301 ONLY.

- ① NOT USED.
- ② PHOTOCELL FOR EXTERIOR LIGHTING.
- ③ WATTSTOPPER LS-4C LIGHT SAVER WALL SWITCH.



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PROJECT DESCRIPTION

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CAMP WG WILLIAMS
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MAIN LEVEL
 FLOOR PLAN -
 LIGHTING

REVISIONS

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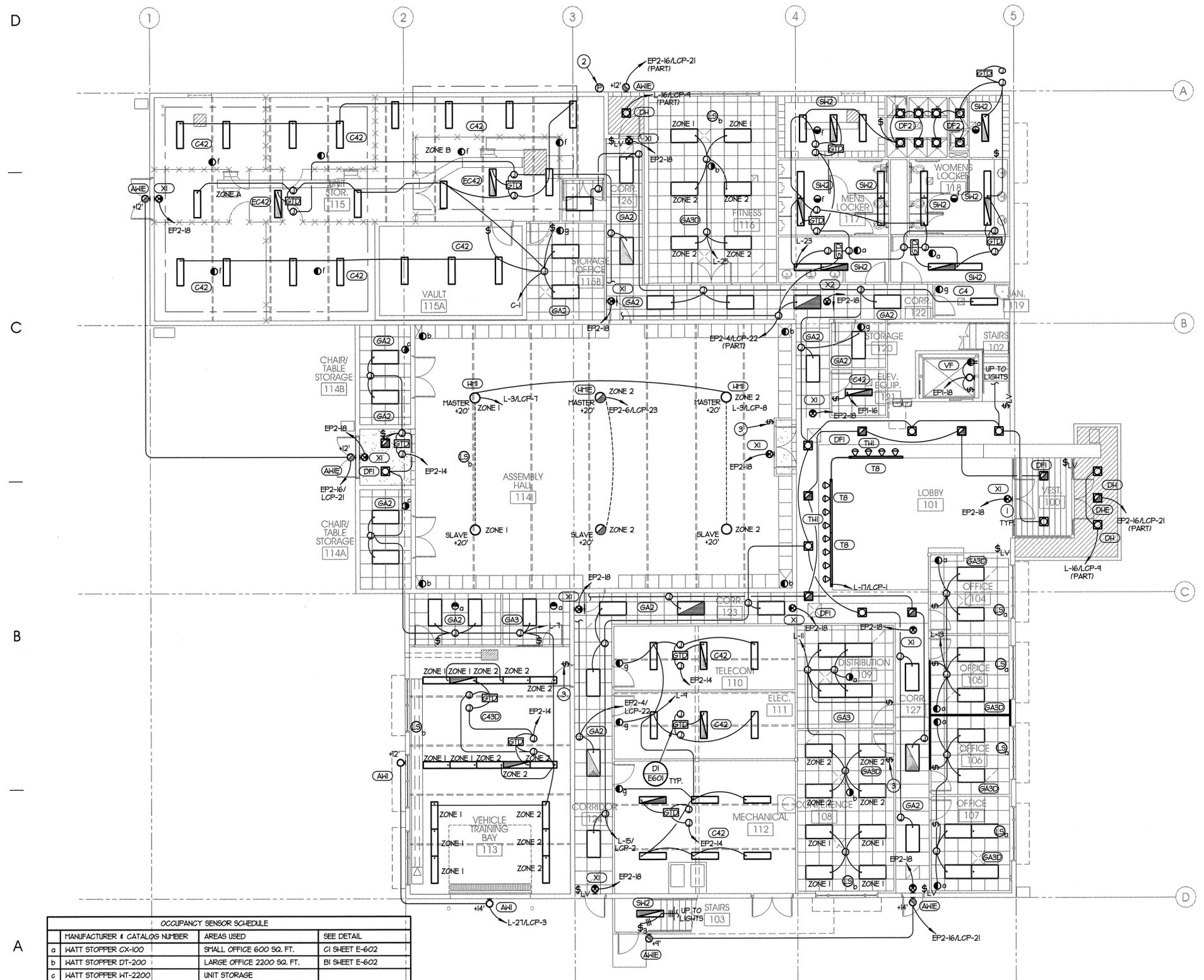
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E301



MAIN LEVEL ELECTRICAL LIGHTING PLAN
 SCALE: 1/8" = 1'-0"

OCCUPANCY SENSOR SCHEDULE

MANUFACTURER # CATALOG NUMBER	AREAS USED	SEE DETAIL
a WATT STOPPER CX-100	SMALL OFFICE 600 SQ. FT.	CI SHEET E-602
b WATT STOPPER DT-200	LARGE OFFICE 2200 SQ. FT.	BI SHEET E-602
c WATT STOPPER WT-2200	UNIT STORAGE	
d WATT STOPPER WT-2255	HALLWAYS LONG AND NARROW	
f WATT STOPPER WT-1105	RESTROOMS	
g WATT STOPPER TS-400	ELECTRONIC TIMER - STORAGE	

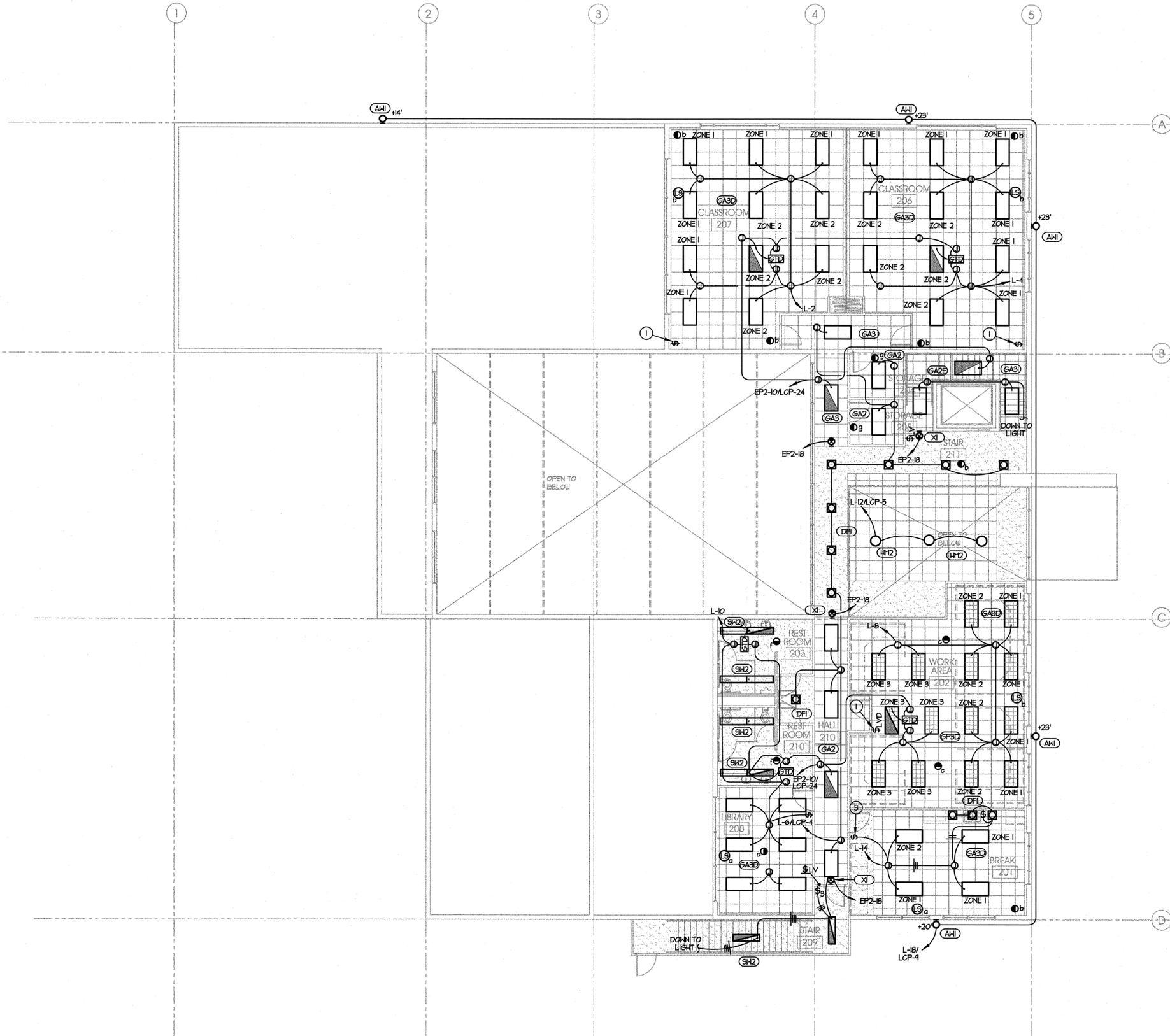
LIGHT SENSOR SCHEDULE

MANUFACTURER # CATALOG NUMBER	AREAS USED	SEE DETAIL
a WATT STOPPER LS-901	DIMMING PHOTO SENSOR	AI SHEET E-602
b WATT STOPPER LS-290C	PHOTOCELL	I SHEET E-602

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D
C
B
A



UPPER LEVEL ELECTRICAL LIGHTING PLAN
SCALE: 1/8" = 1'-0"

A4
E302
1

GENERAL NOTES AND LEGEND:
FOR SHEET E302 ONLY.

1. LIGHTING CONTROL SHALL BE COMMISSIONED BY FACTORY AUTHORIZED PERSONNEL ON SITE. 141 HOURS OF OWNER TRAINING SHALL ALSO BE INCLUDED.

KEYED NOTE LEGEND:
FOR SHEET E302 ONLY.

① MATSTOPPER STOPPER LS-4C LIGHT SAVER HALL SWITCH.

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PROJECT DESCRIPTION

**UTAH NATIONAL
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CAMP WG WILLIAMS
RIVERTON, UTAH

**UPPER LEVEL
FLOOR PLAN -
LIGHTING**

REVISIONS

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E302

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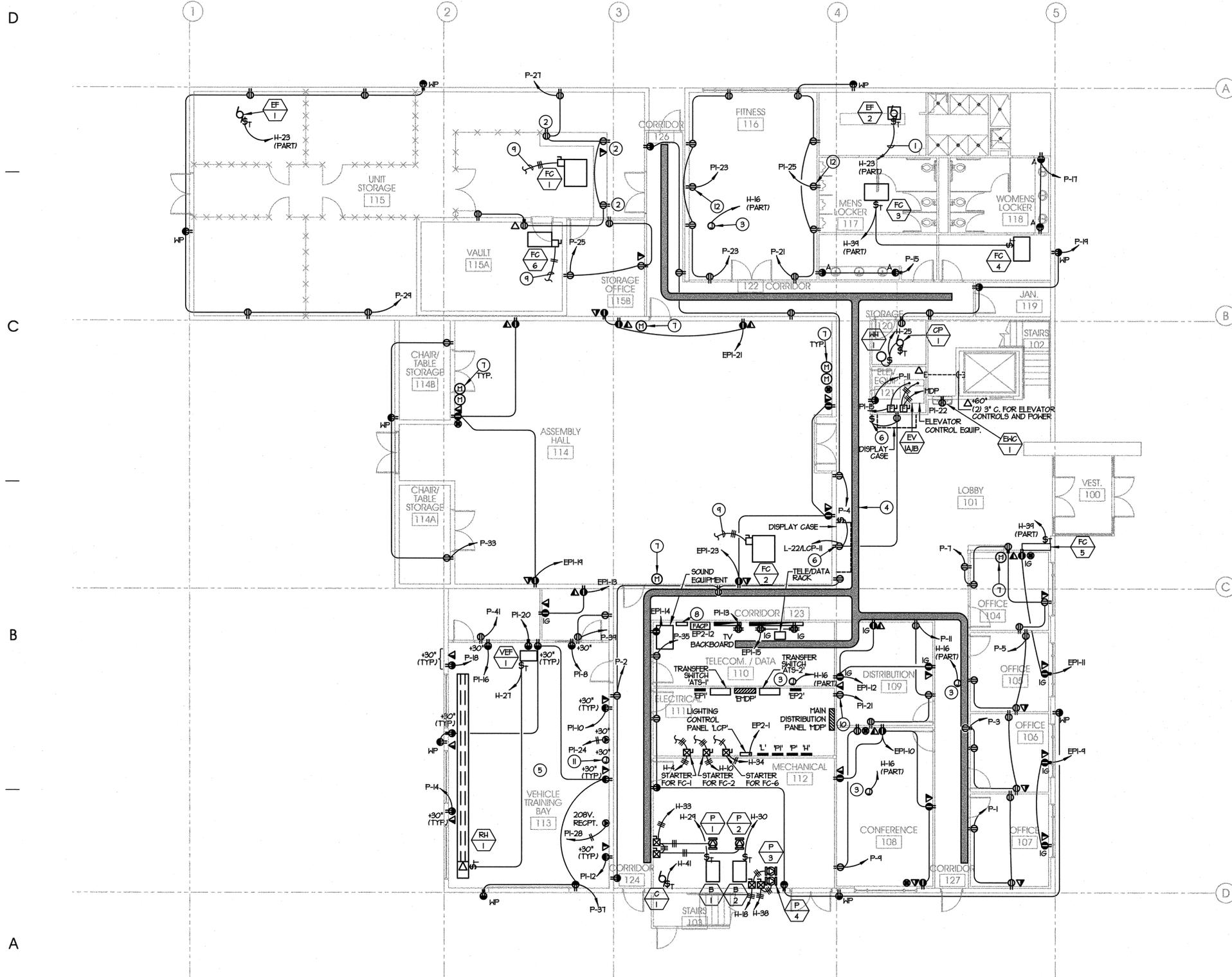
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MAIN LEVEL FLOOR PLAN ELECTRICAL
SCALE: 1/8" = 1'-0"

GENERAL NOTES AND LEGEND:
FOR SHEET E401 ONLY.

KEYED NOTE LEGEND:
FOR SHEET E401 ONLY.

- 1 SWITCH FAN WITH BOTH LOCKER ROOM LIGHTS.
- 2 COORDINATE EXACT LOCATION WITH MILLWORK INSTALLER IN THE FIELD.
- 3 PROVIDE A 6 X 6 X 6 NEMA 1 JUNCTION BOX WITH 120-24V 100VA TRANSFORMER FOR VAV BOXES. 120V CONNECTIONS BY DIVISION 16. LOW VOLTAGE CONNECTIONS BY DIVISION 15. COORDINATE EXACT LOCATION WITH DIVISION 15.
- 4 PROVIDE A 12" CABLE TRAY, B-LINE #4-A-D9-12-144. PROVIDE ALL MOUNTING HARDWARE FOR A COMPLETE INSTALLATION. COORDINATE INSTALLATION WITH DIVISION 15 IN THE FIELD. PROVIDE REQUIRED OFFSETS TO ALLOW MECHANICAL EQUIPMENT AND DUCT INSTALLATION.
- 5 THIS ROOM SHALL BE RATED CLASS 1 DIVISION 2 FROM FINISH FLOOR TO 48". PROVIDE INSTALLATION IN ACCORDANCE TO NEC REQUIREMENTS FOR THIS RATING. MOUNT ALL WIRING DEVICES AT +30" AFF.
- 6 COORDINATE INSTALLATION OF DISPLAY CASE CONVENIENCE OUTLET WITH THE CASE WORK INSTALLER IN THE FIELD. VERIFY EXACT LOCATION OF HALL SWITCH WITH THE USER PRIOR TO ROUGH-IN.
- 7 COORDINATE ROUGH-IN OF SOUND DEVICE BOXES WITH SOUND SYSTEM 1 PLANS.
- 8 REMOTE ANNUNCIATOR PANEL. REFER TO ONE-LINE DIAGRAM.
- 9 CONTINUE TO STARTER LOCATION IN ELECTRICAL ROOM.
- 10 PROVIDE DEDICATED CIRCUIT FOR COPIER. CONFIRM LOCATION WITH THE USER PRIOR TO ROUGH-IN.
- 11 PROVIDE JUNCTION BOX FOR OWNER PROVIDED CONVERTER. VERIFY LOCATION AND REQUIREMENTS WITH THE USER PRIOR TO ROUGH-IN.
- 12 PROVIDE DEDICATED CIRCUIT WITH DEDICATED NEUTRAL FOR TREADMILL EQUIPMENT. CONFIRM LOCATION WITH THE USER PRIOR TO ROUGH-IN.

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PROJECT DESCRIPTION

UTAH NATIONAL
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MAIN LEVEL
FLOOR PLAN -
ELECTRICAL

REVISIONS

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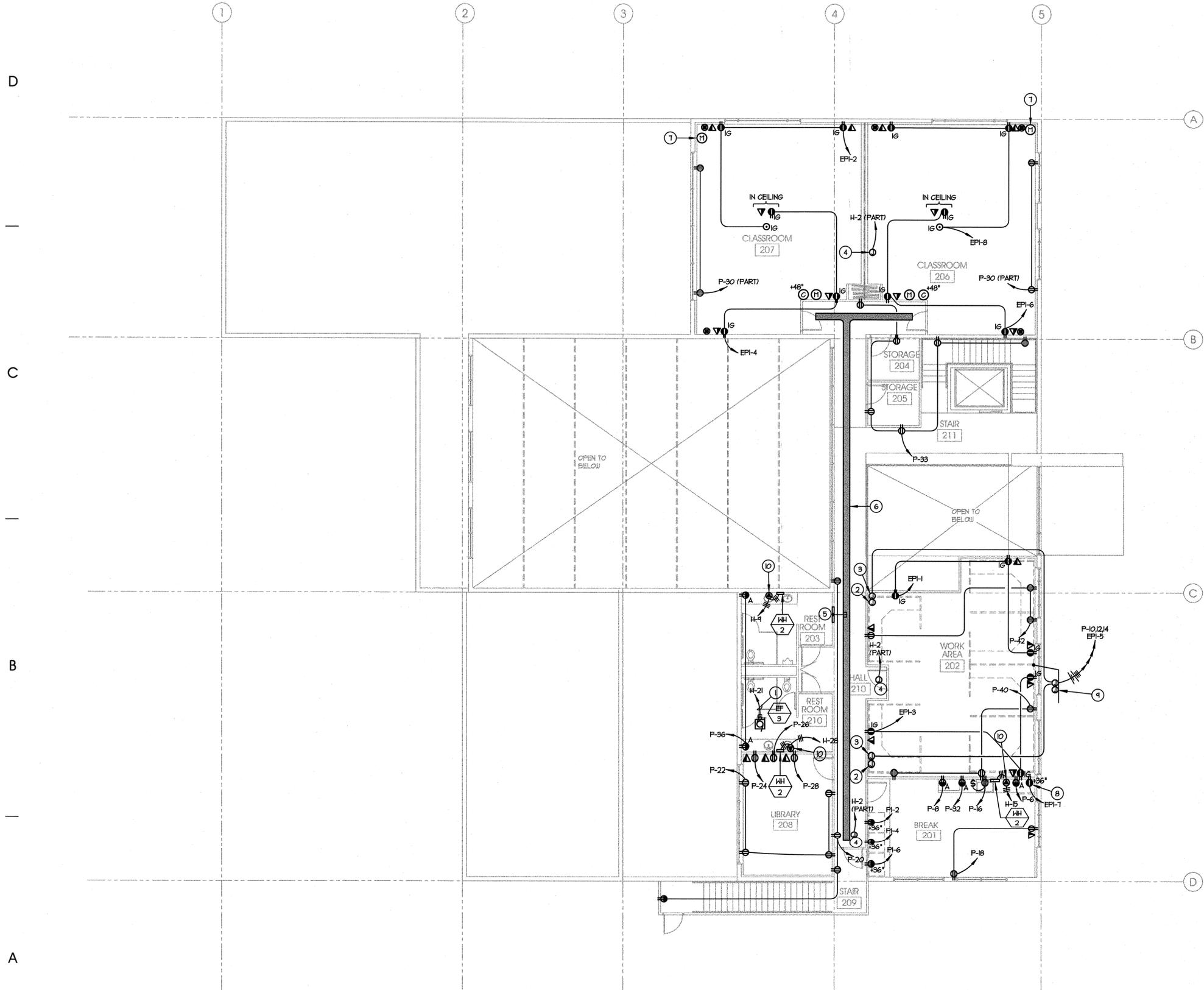
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E401

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

A4
E402
n

GENERAL NOTES AND LEGEND:
FOR SHEET E402 ONLY.

KEYED NOTE LEGEND:
FOR SHEET E402 ONLY.

- ① SWITCH FAN WITH BOTH LOCKER ROOM LIGHTS.
- ② PROVIDE A 4 SQUARE JUNCTION BOX FOR DATA/COMM. EXTEND 3/4" CONDUIT WITH COMMUNICATION CABLES TO OWNER FURNISHED SYSTEMS FURNITURE. PROVIDE ALL MATERIALS AND LABOR FOR A COMPLETE INSTALLATION. CONFIRM EXACT LOCATION PRIOR TO ROUGH-IN.
- ③ PROVIDE A 4 SQUARE JUNCTION BOX. EXTEND A 3/4" CONDUIT WITH CONDUCTORS TO OWNER FURNISHED SYSTEMS FURNITURE. PROVIDE ALL MATERIALS AND LABOR FOR A COMPLETE INSTALLATION. CONFIRM EXACT LOCATION PRIOR TO ROUGH-IN.
- ④ PROVIDE A 6 X 6 X 6 NEMA 1 JUNCTION BOX WITH 120-24V 100VA TRANSFORMER FOR VAV BOXES. 120V CONNECTIONS BY DIVISION 16. LOW VOLTAGE CONNECTIONS BY DIVISION 15. COORDINATE EXACT LOCATION WITH DIVISION 15. CONFIRM EXACT LOCATIONS PRIOR TO ROUGH-IN.
- ⑤ LOCATION FOR COMMUNICATION CONDUITS REFER TO THE COMMUNICATION RISER FOR CONDUIT AND SIZE REQUIREMENTS.
- ⑥ PROVIDE A 12" CABLE TRAY, B-LINE #4-A-D4-12-144. PROVIDE ALL MOUNTING HARDWARE FOR A COMPLETE INSTALLATION.
- ⑦ COORDINATE ROUGH-IN OF SOUND DEVICE BOXES WITH SOUND SYSTEM PLANS.
- ⑧ CONFIRM WIRING DEVICE HEIGHT WITH ARCHITECT'S INTERIOR ELEVATION PLANS PRIOR TO ROUGH-IN.
- ⑨ EXTEND 1/2" 1/4" CONDUITS WITH COMMUNICATION CABLES TO CABLE TRAY FOR SYSTEMS FURNITURE.
- ⑩ PROVIDE 30A TWIST LOCK SPECIAL PURPOSE OUTLET AND MATCHING GORD CAP.

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PROJECT DESCRIPTION
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UPPER LEVEL
FLOOR PLAN -
ELECTRICAL

REVISIONS

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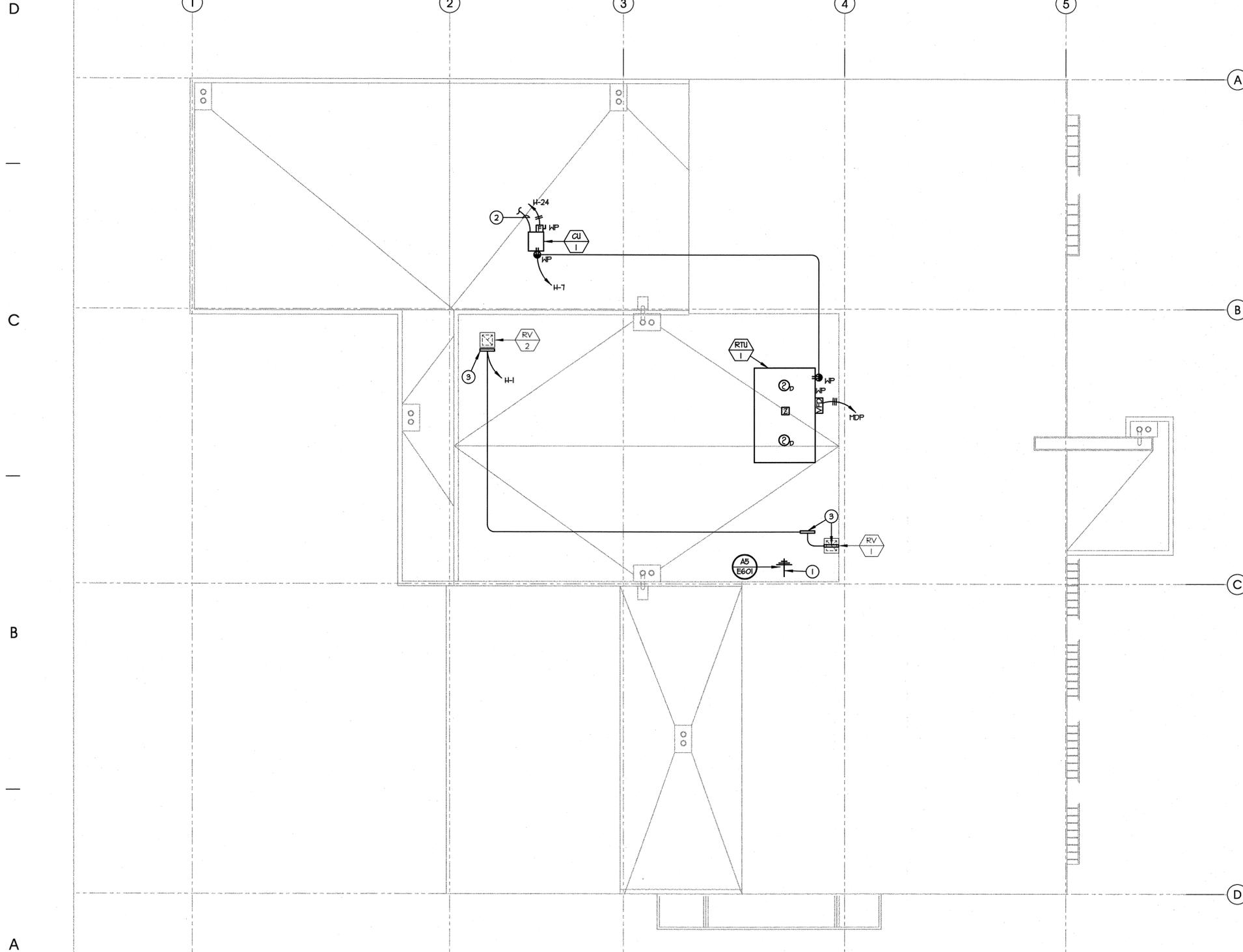
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E402

1 | 2 | 3 | 4 | 5



GENERAL NOTES AND LEGEND:
FOR SHEET E403 ONLY.

KEYED NOTE LEGEND:
FOR SHEET E403 ONLY.

- ① COORDINATE EXACT LOCATION OF ANTENNA WITH OWNER PRIOR TO ROUGH-IN.
- ② EXTEND A 3/4" CONDUIT FOR CONTROLS TO LOCATION DESIGNATED BY DIVISION 5. COORDINATE IN THE FIELD.
- ③ PROVIDE 120VAC POWER FOR MOTORIZED DAMPERS. CONFIRM ALL LOCATIONS AND COORDINATE WITH DIVISION 5 IN THE FIELD.

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ROOF PLAN
ELECTRICAL

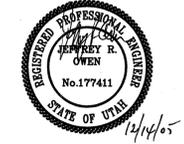
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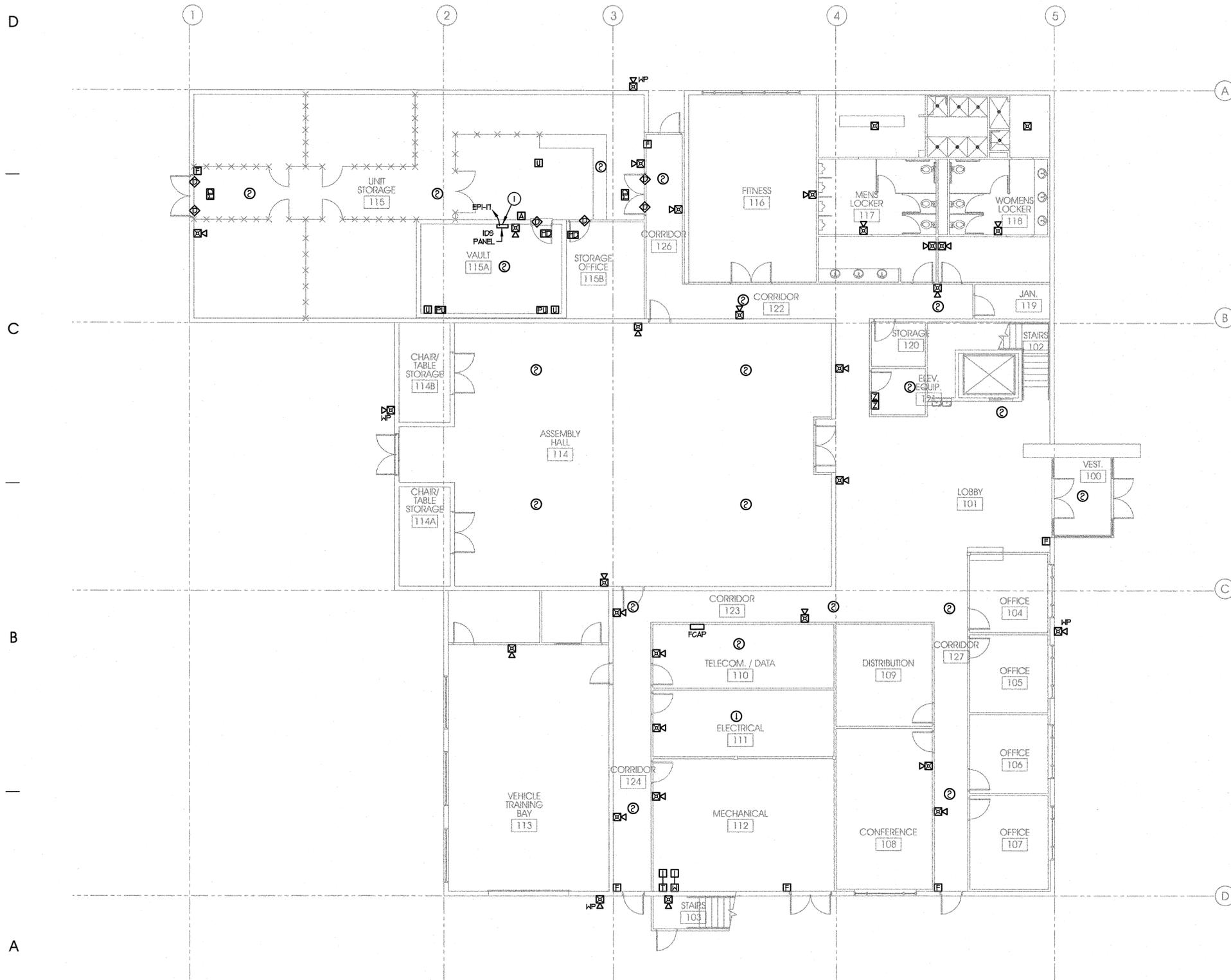


ROOF PLAN ELECTRICAL
SCALE: 1/8" = 1'-0"
A4
E403
n

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MAIN LEVEL AUXILIARY PLAN

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



GENERAL NOTES AND LEGEND:
FOR SHEET E501 ONLY.

KEYED NOTE LEGEND:
FOR SHEET E501 ONLY.

① REFER TO THE INTRUSION DETECTION SYSTEM RISER ON SHEET E102 FOR IDS SYSTEM REQUIREMENTS.

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PROJECT DESCRIPTION

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MAIN LEVEL
FLOOR PLAN -
AUXILIARY

REVISIONS

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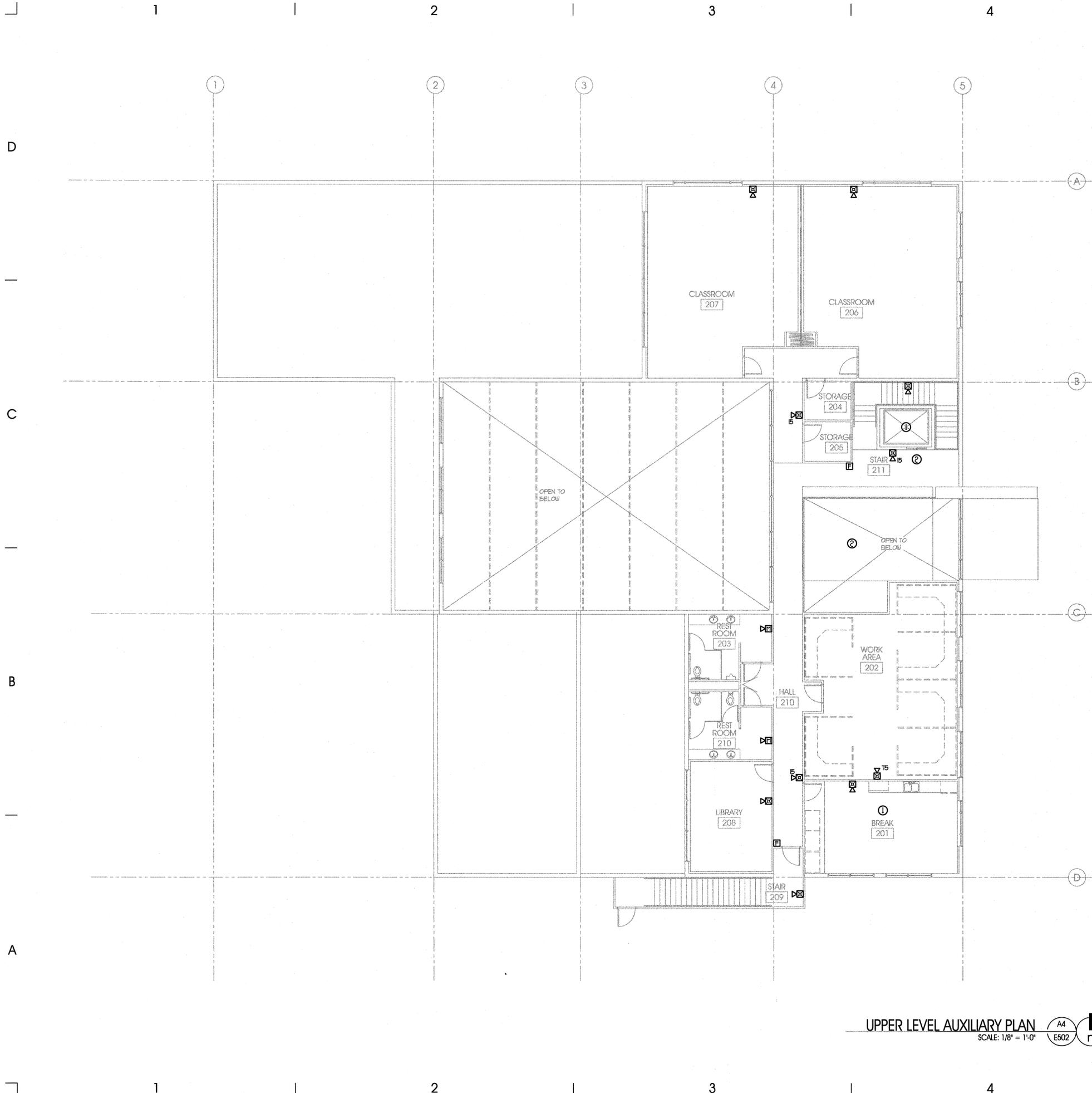
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UPPER LEVEL AUXILIARY PLAN
SCALE: 1/8" = 1'-0"

GENERAL NOTES AND LEGEND:
FOR SHEET E502 ONLY.

KEYED NOTE LEGEND:
FOR SHEET E502 ONLY.

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UPPER LEVEL
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ELECTRICAL
DETAILS

REVISIONS

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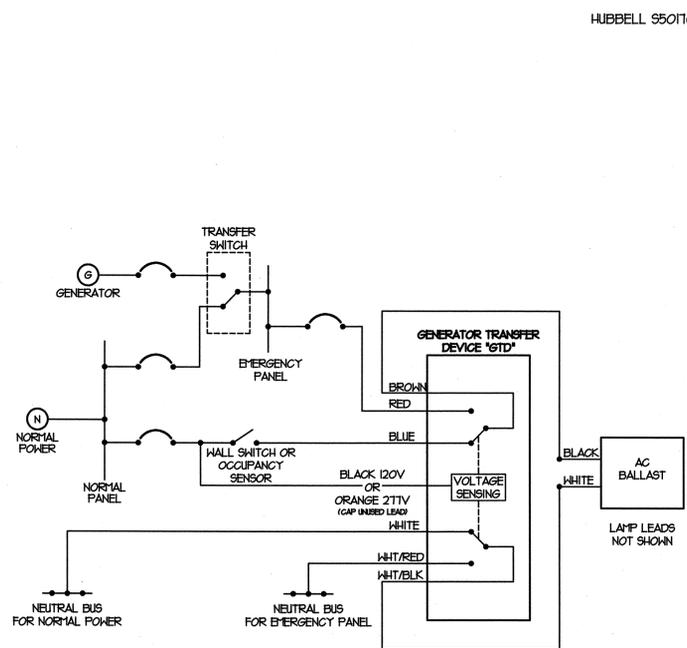
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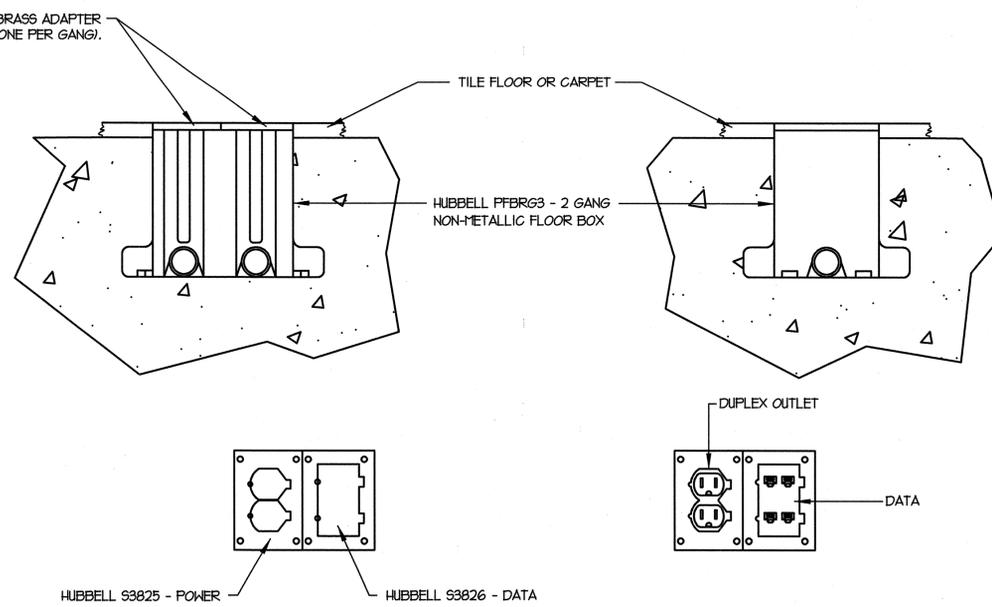
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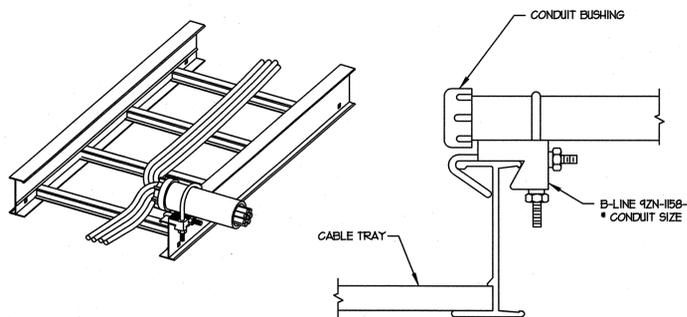
E601



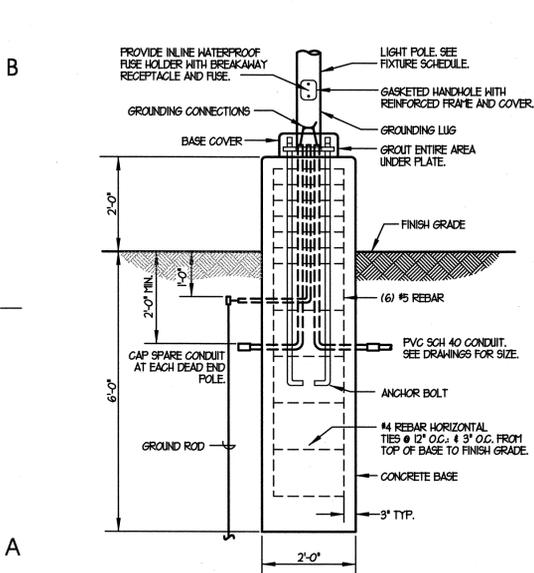
D1 GENERATOR TRANSFER DEVICE (GTD) DETAIL
SCALE: NONE



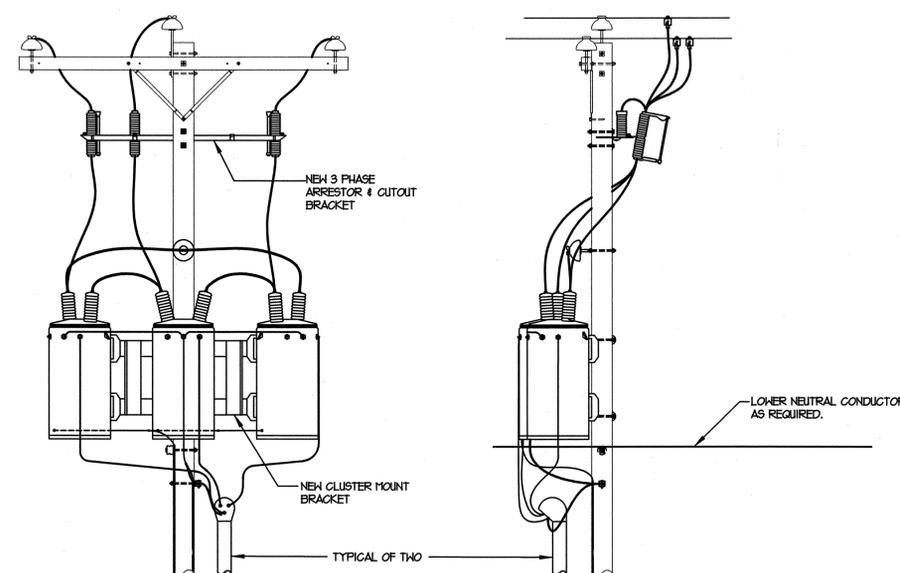
C3 TILE FLOOR BOX DETAIL
SCALE: NONE



C5 CONDUIT TO TRAY ADAPTER
SCALE: NONE

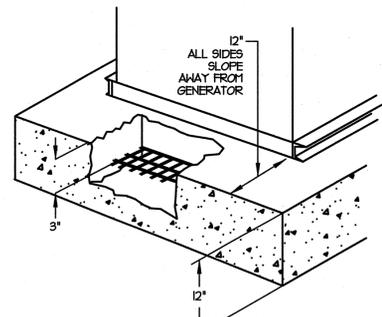


A1 POLE BASE DETAIL
SCALE: NONE

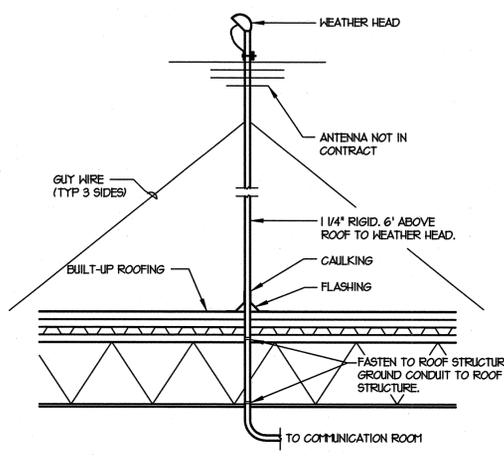


A2 TRANSFORMER BANK DETAIL
SCALE: NONE

- MIXTURE OF CONCRETE (BY VOLUME) IS 1:3:4 OF CEMENT, SAND, AND AGGREGATE WITH A MAXIMUM FOUR INCH SLUMP WITH A 28 DAY COMPRESSION STRENGTH OF 3000 PSI (200MPa).
- REINFORCEMENT METHOD IS TO PLACE NO. 6 REINFORCING BARS ON 12 INCH CENTERS HORIZONTALLY. BARS SHALL CLEAR THE FOUNDATION SURFACE A MINIMUM OF 3 INCHES.
- PROVIDE PLAN DIMENSIONS INSIDE AS RECOMMENDED BY THE GENERATOR SUPPLIER.



A4 GENERATOR PAD DETAIL
SCALE: NONE



A5 ANTENNA MOUNTING DETAIL
SCALE: NONE



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PROJECT DESCRIPTION

UTAH NATIONAL
GUARD 144th
COMPANY
READINESS
CENTER

CAMP WG WILLIAMS
RIVERTON, UTAH

ELECTRICAL
DETAILS

REVISIONS

MARK	DATE	DESCRIPTION

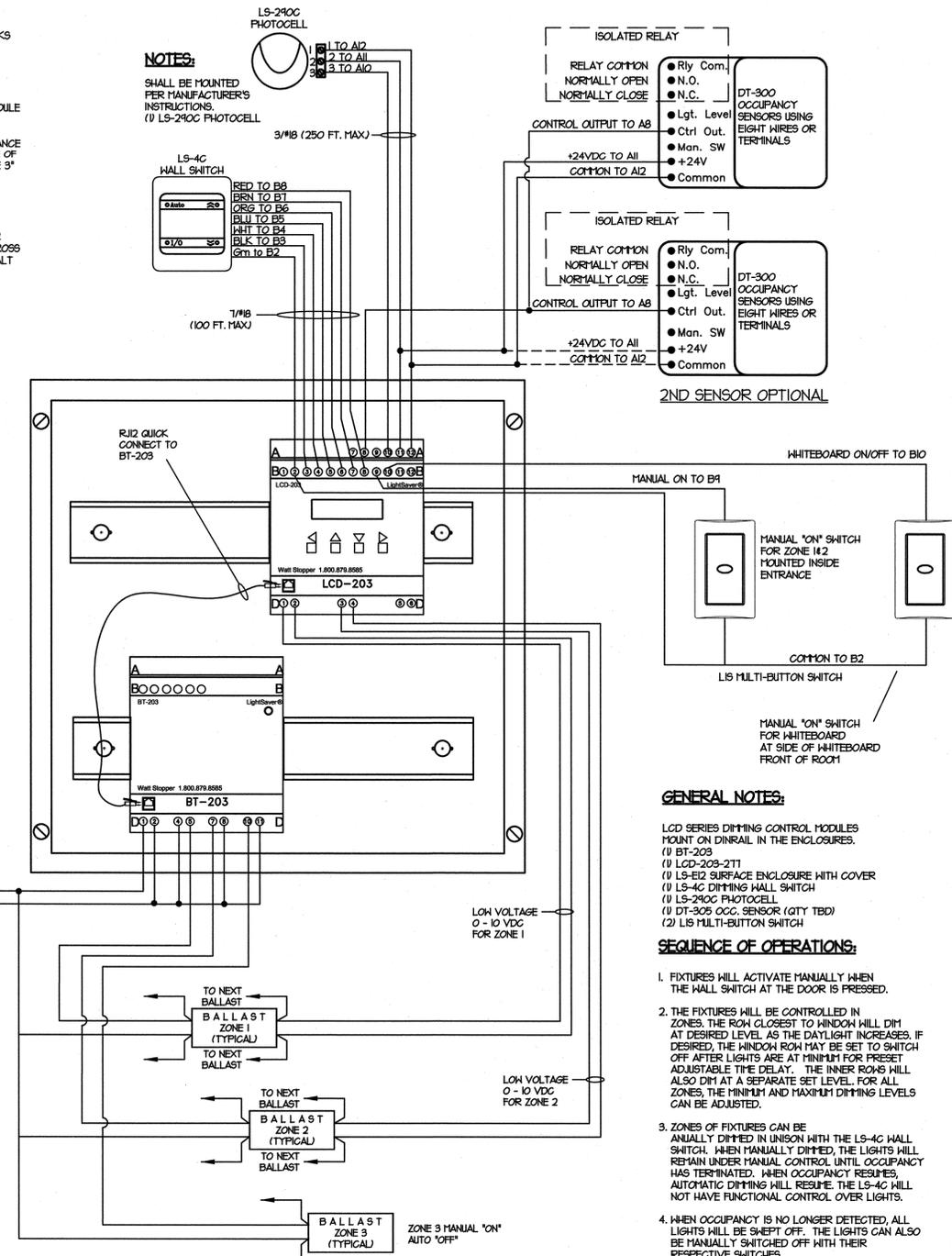
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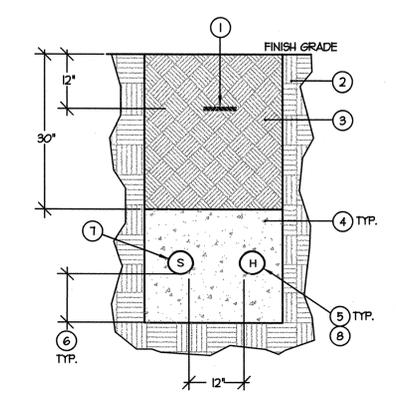
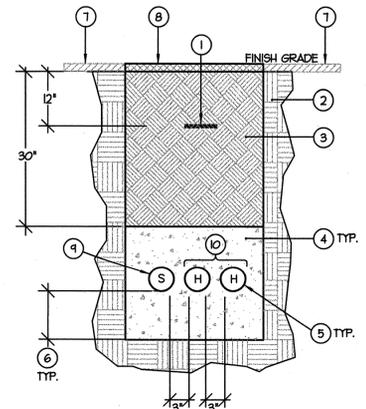
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E602

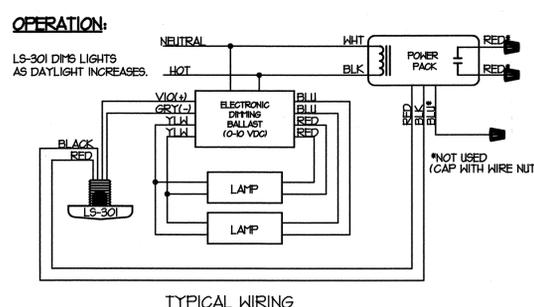
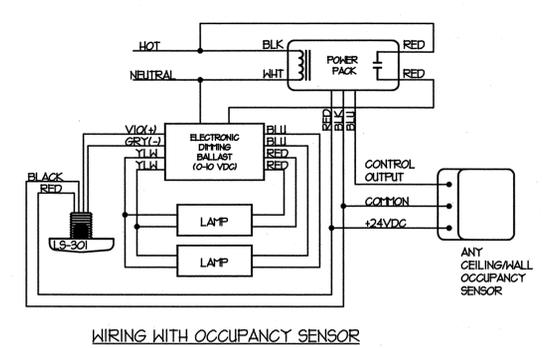
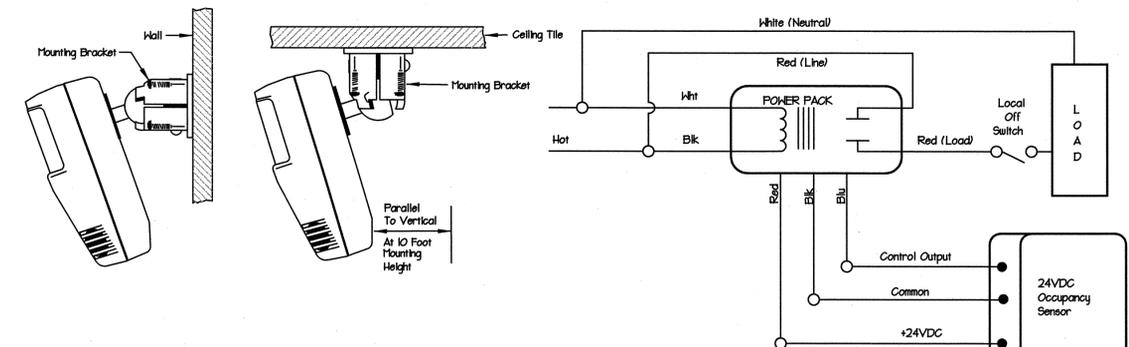
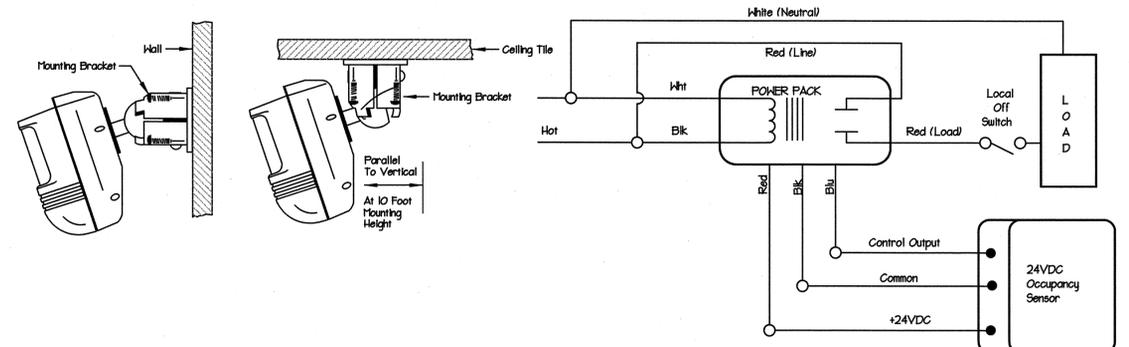


A4 LIGHTSAVER DAYLIGHT CONTROLLER
SCALE: NONE

- KEYED NOTES:**
- MARKER TAPE WITH THE WORDS "CAUTION BURIED ELECTRIC CONDUITS BELOW" DIRECTLY OVER EACH GROUP OF POWER CONDUITS.
 - UNDISTURBED EARTH.
 - CLEAN BACKFILL CONTAINING NO ROCKS LARGER THAN 4" DIA.
 - CONCRETE ENCASED DUCT BANK. CONCRETE SHALL BE DYED RED.
 - ALL CONDUITS SHOWN SHALL BE SCHEDULE 40 PVC.
 - THE VERTICAL AND HORIZONTAL DISTANCE FROM THE DUCT TO THE OUTSIDE EDGE OF THE CONCRETE ENCASEMENT SHALL BE 3" MINIMUM.
 - EXISTING ASPHALT SURFACE.
 - SAW CUT AND REMOVING SECTIONS OF EXISTING PAVEMENT AS REQUIRED FOR INSTALLATION OF NEW DUCT BANK ACROSS ROADWAY. PATCH AND REPAIR ASPHALT SURFACE MATCH EXISTING PAVEMENT SECTION.
 - SPARE CONDUIT WITH FULL ROPE.
 - REFER TO ONE-LINE FOR CONDUCTOR REQUIREMENTS.



- KEYED NOTES:**
- MARKER TAPE WITH THE WORDS "CAUTION BURIED ELECTRIC CONDUITS BELOW" DIRECTLY OVER EACH GROUP OF POWER CONDUITS.
 - UNDISTURBED EARTH.
 - CLEAN BACKFILL CONTAINING NO ROCKS LARGER THAN 4" DIA.
 - CONCRETE ENCASED DUCT BANK. CONCRETE SHALL BE DYED RED.
 - ALL CONDUITS SHOWN SHALL BE SCHEDULE 40 PVC.
 - THE VERTICAL AND HORIZONTAL DISTANCE FROM THE DUCT TO THE OUTSIDE EDGE OF THE CONCRETE ENCASEMENT SHALL BE 3" MINIMUM.
 - SPARE CONDUIT WITH FULL ROPE.
 - REFER TO SITE PLAN FOR CONDUCTOR REQUIREMENTS.



OPERATION:
OCCUPANCY SENSOR SWITCHES LIGHTS ON/OFF WHEN OCCUPIED. THE LS-301 DIMS THE LIGHTS AS DAYLIGHT INCREASES.

A1 THE WATT STOPPER WIRING SCHEMATIC
SCALE: NONE



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PROJECT DESCRIPTION

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CENTER**

CAMP WG WILLIAMS
RIVERTON, UTAH

ONE-LINE
DIAGRAM

REVISIONS
MARK DATE DESCRIPTION

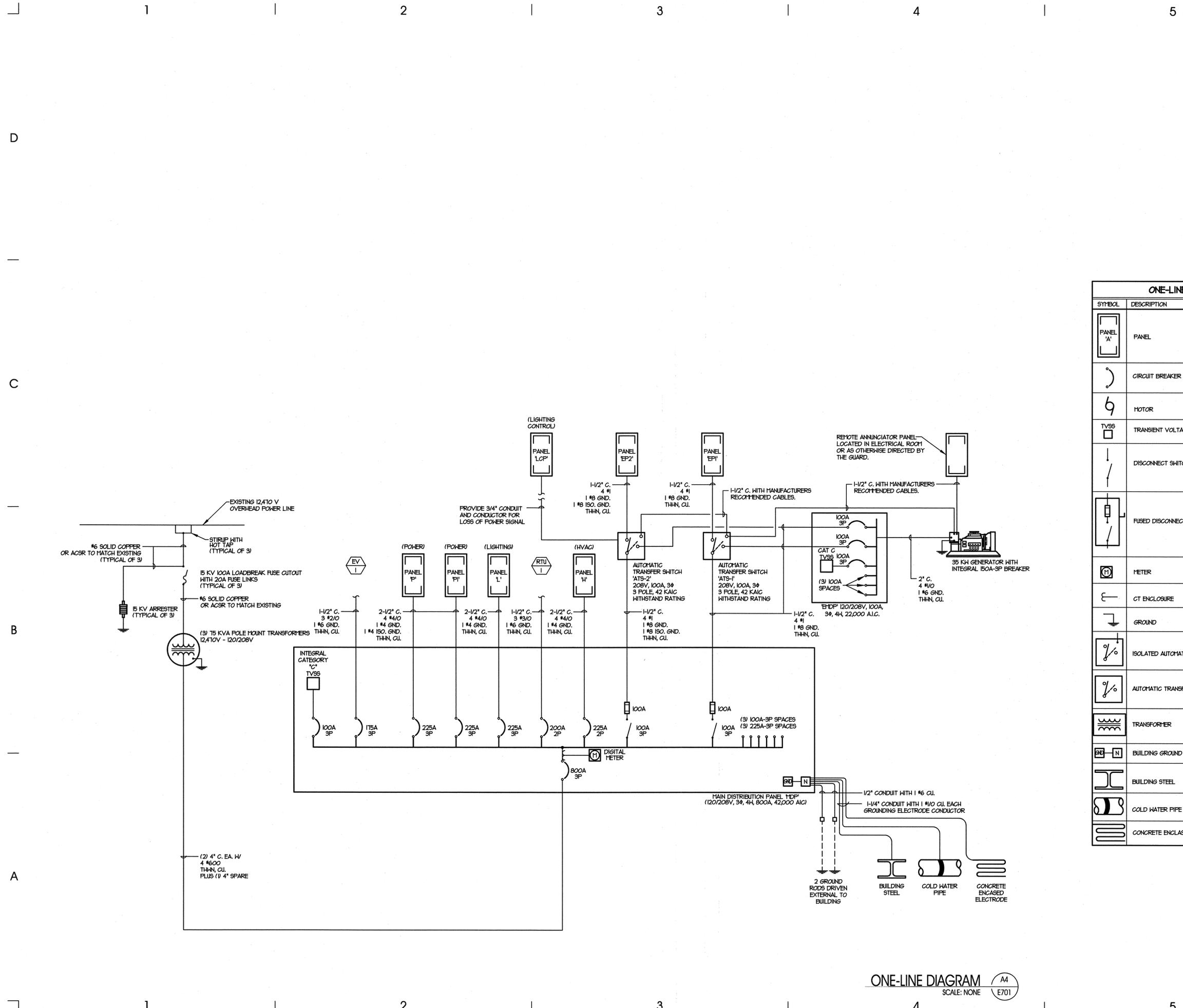
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E701

ONE-LINE SYMBOLS	
SYMBOL	DESCRIPTION
	PANEL
	CIRCUIT BREAKER
	MOTOR
	TRANSIENT VOLTAGE SURGE SUPPRESSOR
	DISCONNECT SWITCH
	FUSED DISCONNECT SWITCH
	METER
	CT ENCLOSURE
	GROUND
	ISOLATED AUTOMATIC TRANSFER SWITCH
	AUTOMATIC TRANSFER SWITCH
	TRANSFORMER
	BUILDING GROUND
	BUILDING STEEL
	COLD WATER PIPE
	CONCRETE ENCLOSED ELECTRODE



ONE-LINE DIAGRAM
SCALE: NONE



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ONE-LINE DIAGRAM

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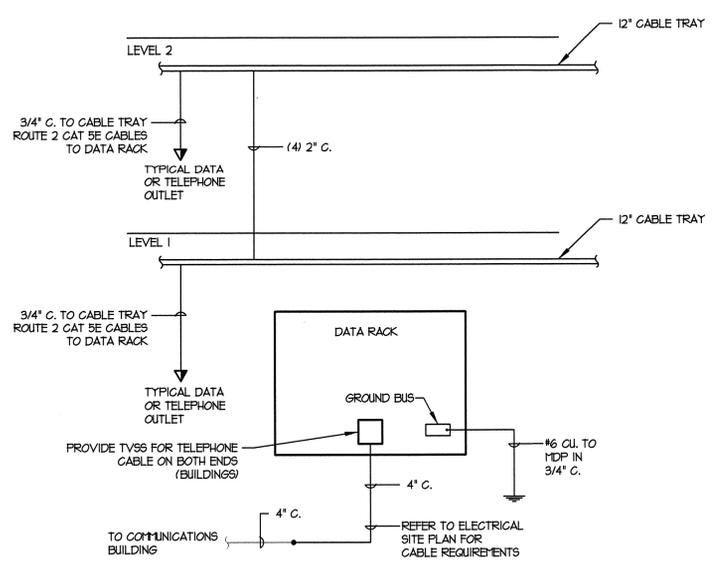
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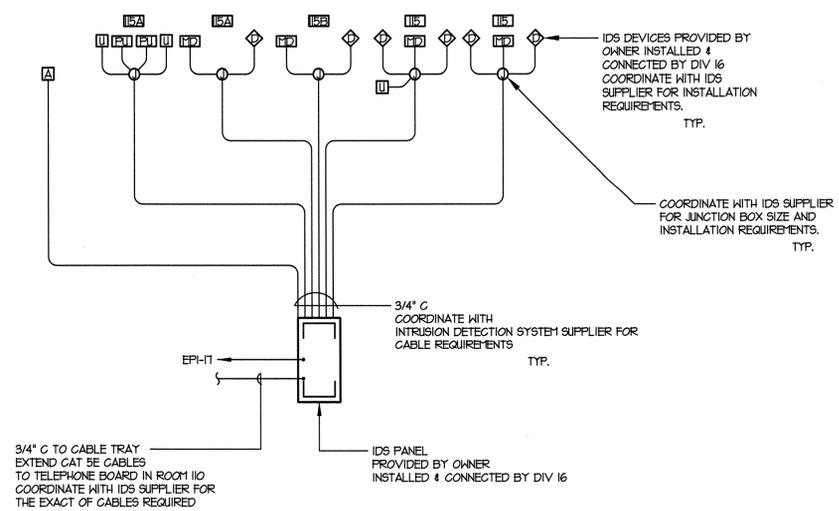
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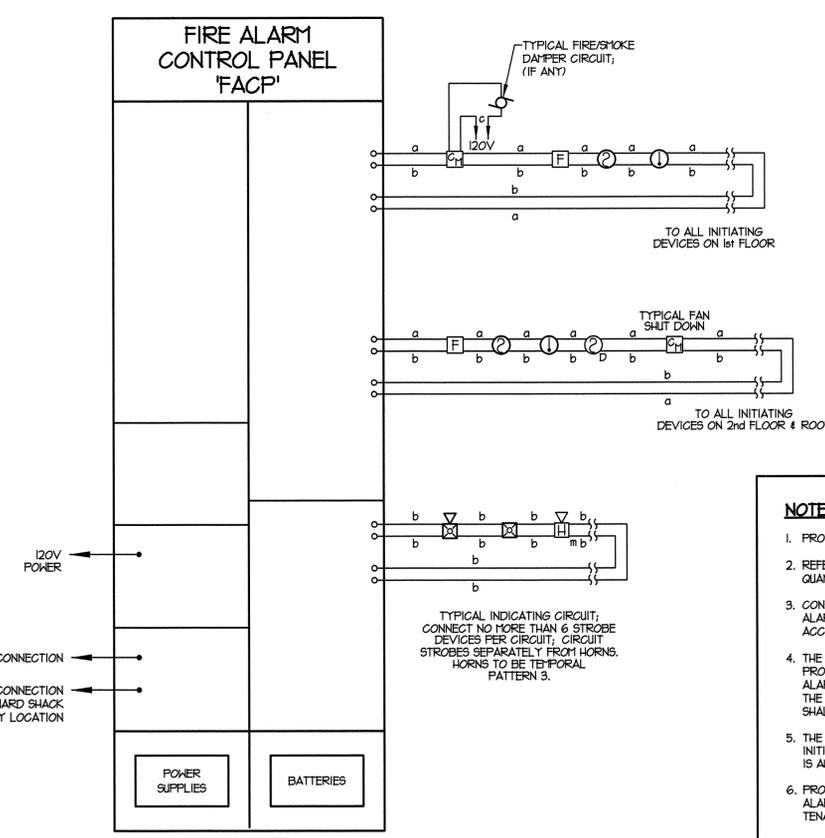
E702



COMMUNICATIONS RISER
SCALE: NONE
A4
E702

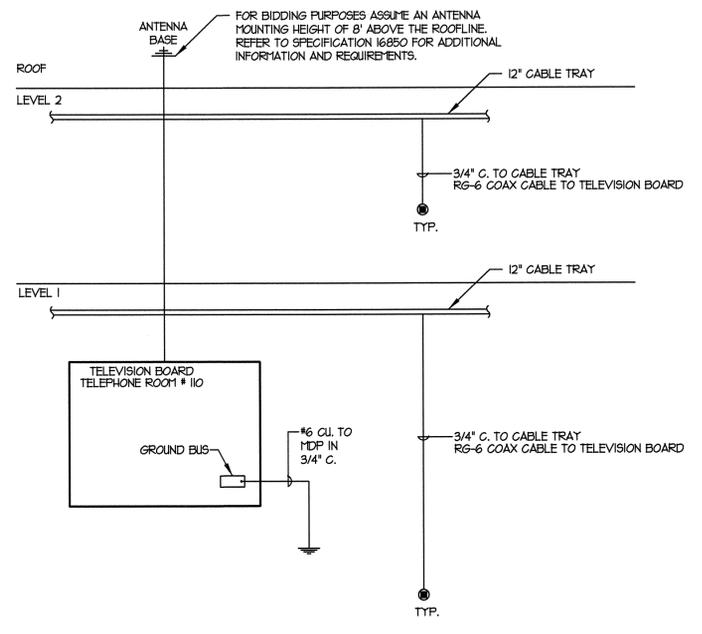


INTRUSION DETECTION SYSTEM RISER
SCALE: NONE
C4
E702



- NOTE!!!**
1. PROVIDE ANALOG/ADDRESSABLE FIRE ALARM SYSTEM.
 2. REFER TO POWER PLANS FOR EXACT LOCATION & QUANTITY OF ALL FIRE ALARM DEVICES.
 3. CONFIRM ALL WIRING REQUIREMENTS WITH FIRE ALARM SYSTEM SUPPLIER AND PROVIDE IN ACCORDANCE THEREWITH.
 4. THE SUCCESSFUL FIRE ALARM SYSTEM SUPPLIER SHALL PROVIDE A COMPUTER DRAFTED PLAN OF THE FIRE ALARM SYSTEM USING FLOOR PLANS PROVIDED BY THE ARCHITECT. COMPLETE RISER & WIRING DIAGRAMS SHALL BE INCLUDED.
 5. THE SYSTEM SHALL BE PROGRAMMED SO THAT IF ANY INITIATION DEVICE IS ACTUATED, AN ALARM SIGNAL WHICH IS AUDIBLE THROUGHOUT THE BUILDING WILL BE ACTIVATED.
 6. PROVIDE SUFFICIENT SPARE INDICATING MODULES IN FIRE ALARM CONTROL PANEL FOR FUTURE MAIN LEVEL TENANTS.

ONE-LINE DIAGRAM
SCALE: NONE
FIRE ALARM SYSTEM



ANTENNA BASE/TV RISER
SCALE: NONE
A4
E702

ENR004-E702.dwg - Camp Williams Readiness Response - AJC/Elec/E702.dwg, 3/22/2006 9:30:37 AM, james, E702.dwg, 12/14/05



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PROJECT DESCRIPTION

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CAMP WG WILLIAMS
RIVERTON, UTAH

**MAIN LEVEL REFLECTED
CEILING PLAN -
SPEAKER LAYOUT**

REVISIONS

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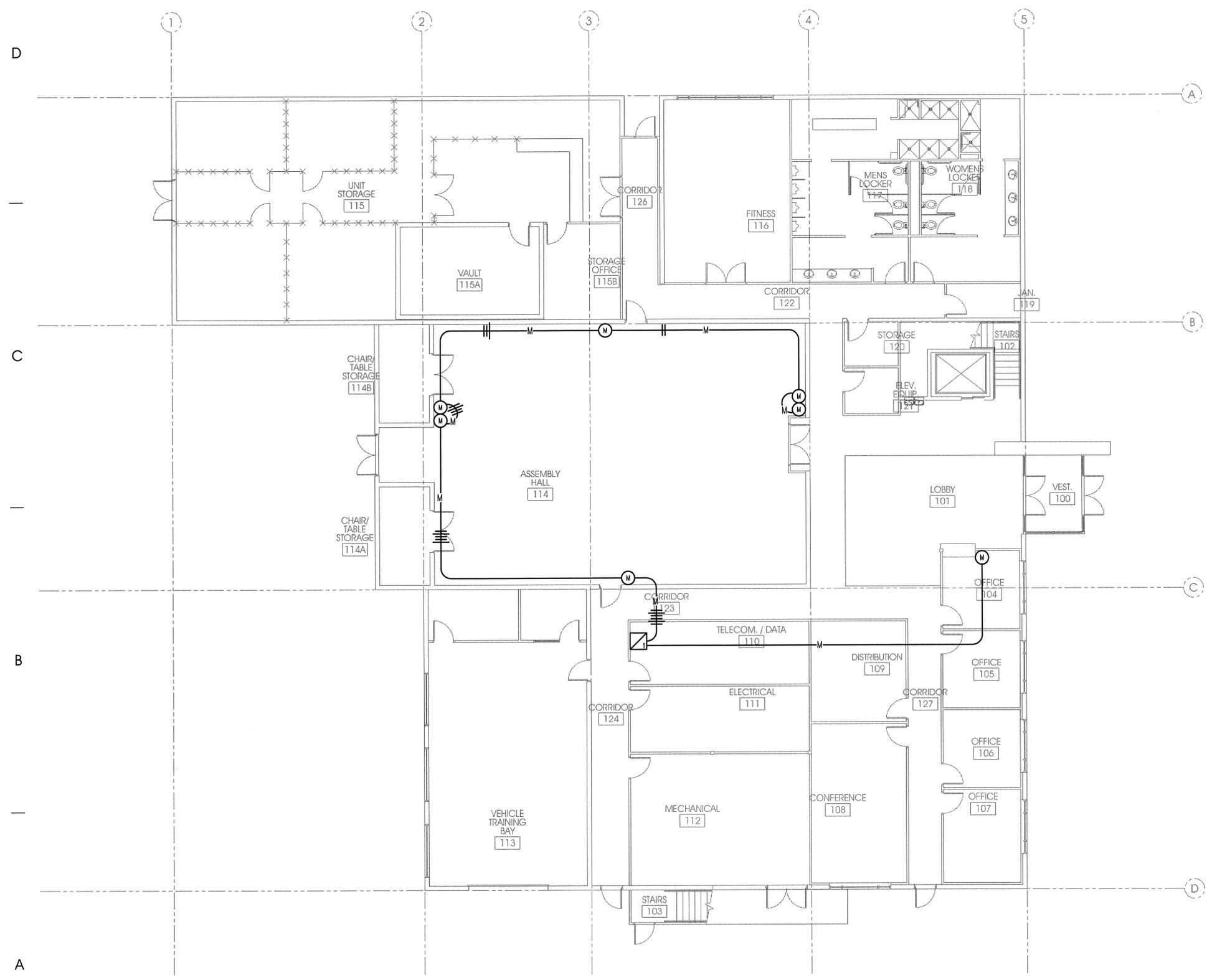
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MAIN LEVEL MICROPHONE LAYOUT
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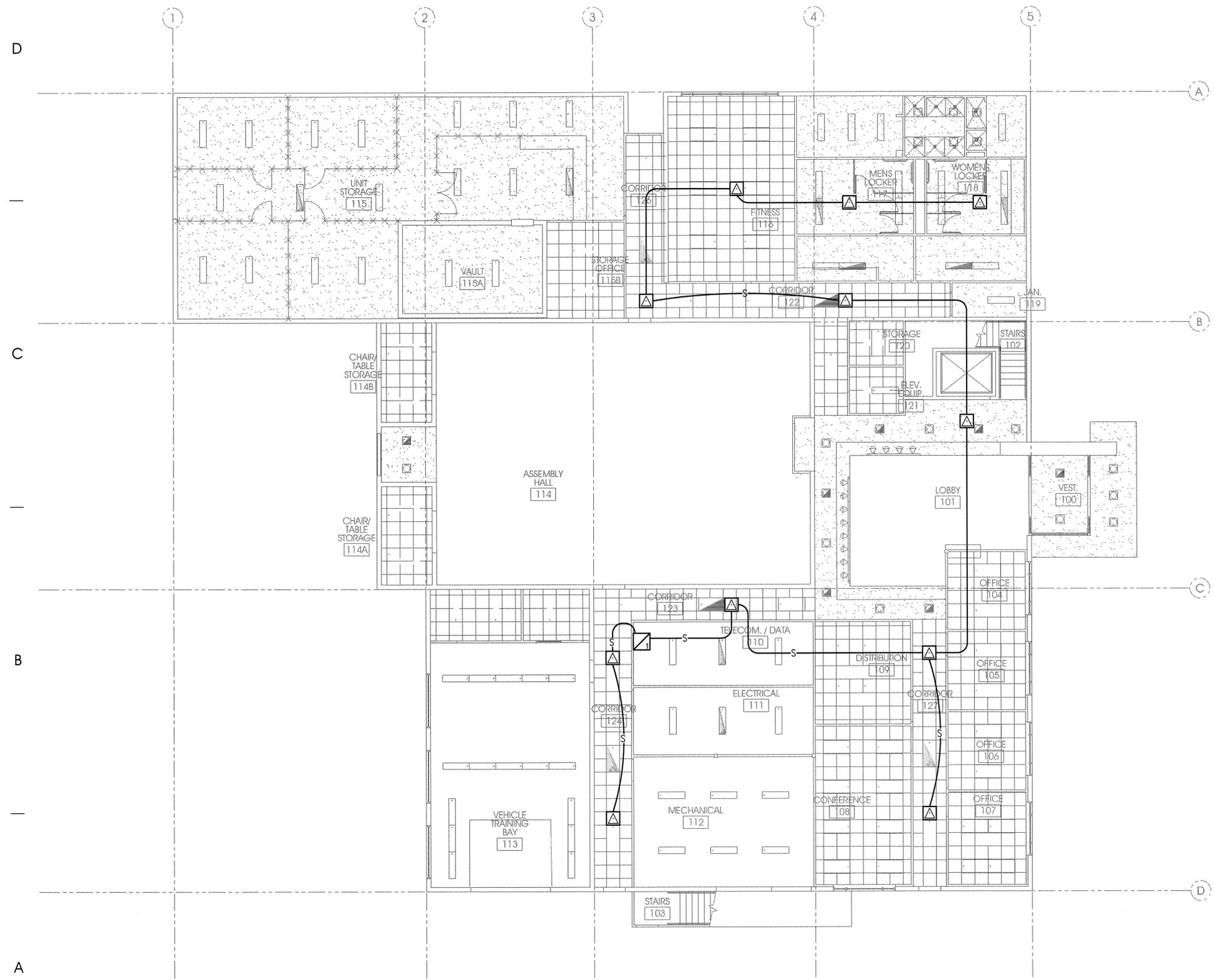
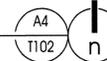


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MAIN LEVEL SPEAKER LAYOUT

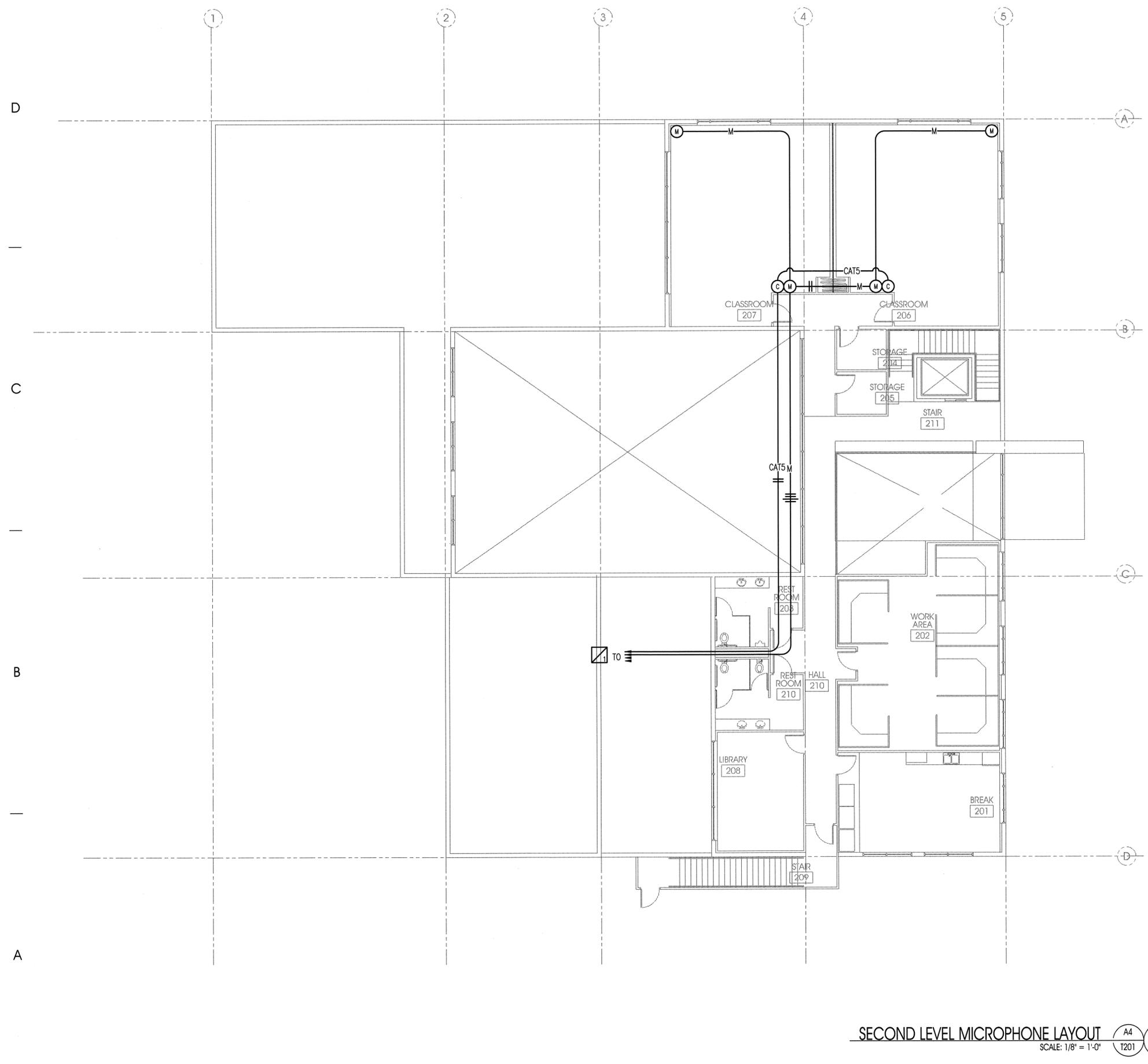
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T102

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SECOND LEVEL MICROPHONE LAYOUT
 SCALE: 1/8" = 1'-0"
 A4 T201 n

AJC PROJECT #0470

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MAIN LEVEL REFLECTED
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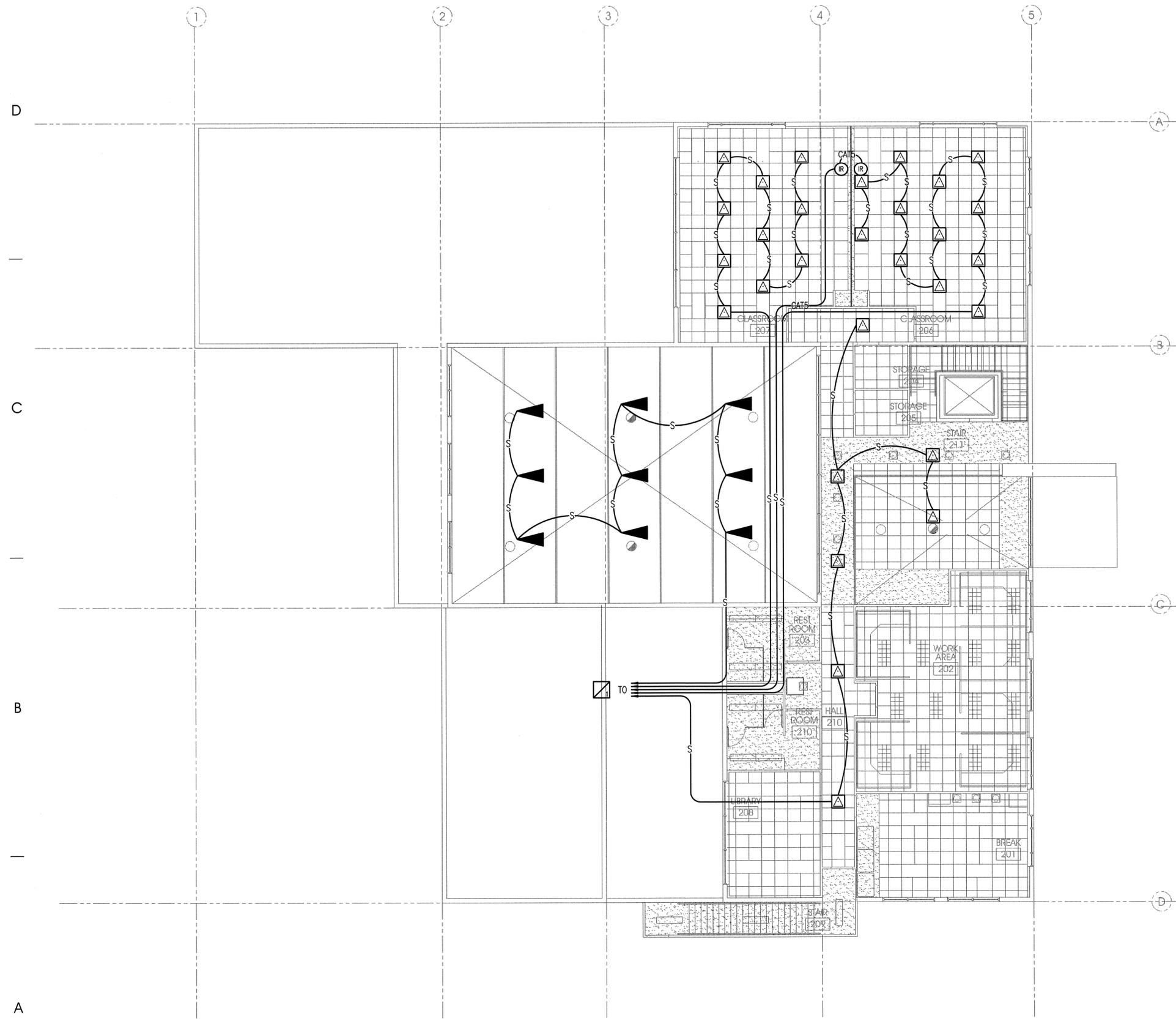
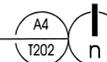


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MAIN LEVEL SPEAKER LAYOUT

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



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T301

ELECTRICAL EQUIPMENT LIST

SPEC SECTION 16811

SYM	DESCRIPTION	QTY	MANUFACTURER & MODEL NUMBER
—	Conduit & Microphone cable 22 AWG Cross lines indicate # of cables if more than one 1/2" conduit = 6 cables, 3/4" = 12, 1" = 19	A/R	Belden 8451 West Penn 454*
—	Conduit & Speaker cable 16 AWG Cross lines indicate # of cables if more than one 1/2" conduit = 3 cables, 3/4" = 6, 1" = 11	A/R	Belden 8471 West Penn 225*
CATS	Conduit & cable CAT5 Cross lines indicate # of cables if more than one 1/2" conduit = 3 cables, 3/4" = 5, 1" = 8		
	Sound System Power	1	110 VAC 20 amp duplex power receptacle located inside cabinet
M	Microphone input 3" deep single gang box, not on horizontal surface Electrical outlet height*	A/R	
IR	Infrared detectors 3" deep single gang box mounted in header, Install 6" off center*	A/R	
□	Equipment cabinet 45" w/ front door #1 Paint cabinet to match wall	1	Atlas Sound 320-42B-972 & B399A Keyed lock (beige finish) Middle Atlantic DWR-24-22-FD-24 (putty powder finish)*
C	Remote Control 3" deep single gang box Electrical switch height	A/R	
△	Speaker enclosure, 8" recessed with insulation	A/R	Atlas Sound T95-8-10 with t-bar supports as required
▶	Speaker, full range 3" deep single gang box	A/R	

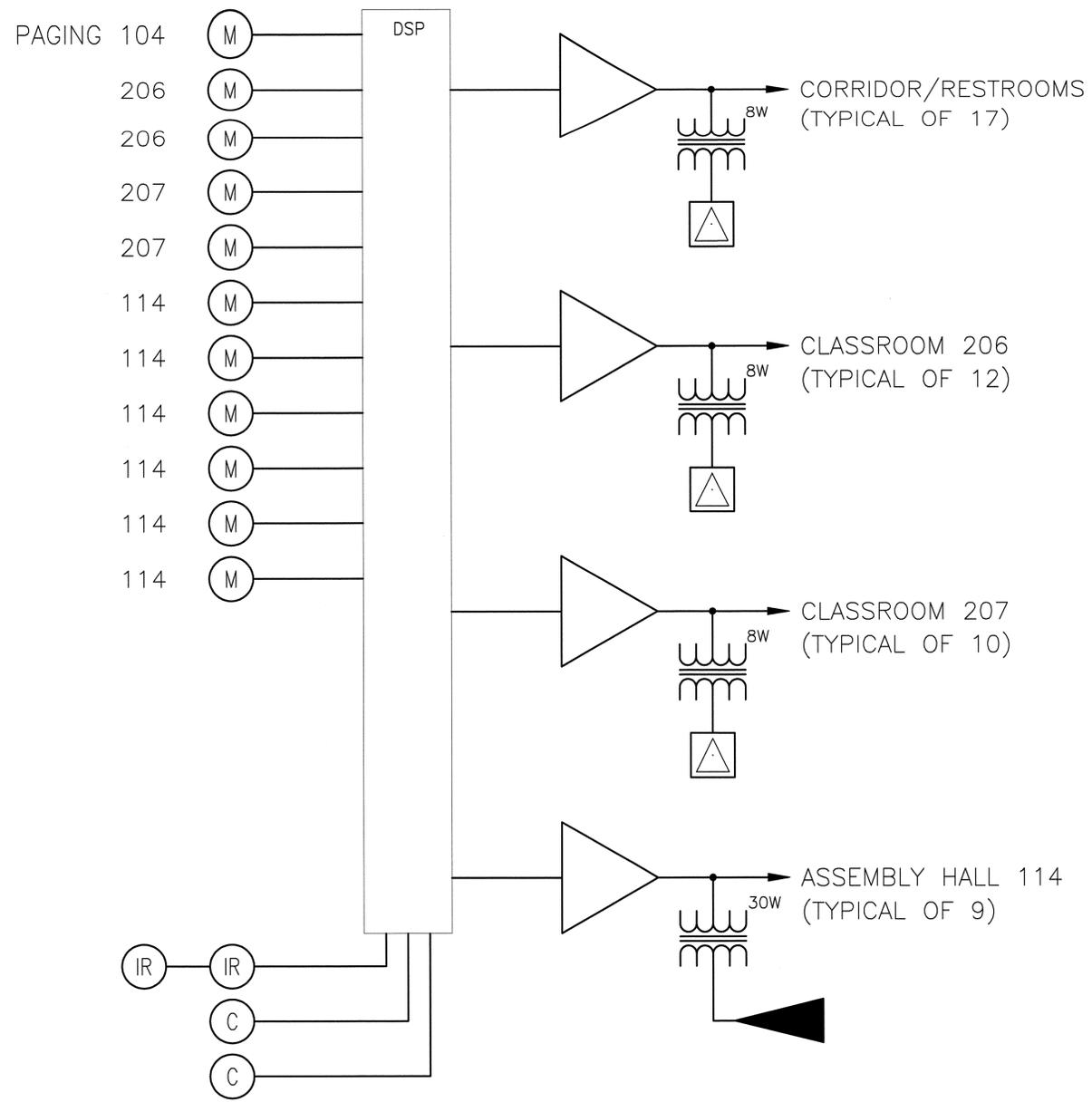
A/R = As Required per drawing, 0 = Existing equipment to be used, B = Brown device and cover plate

SOUND EQUIPMENT LIST

SPEC SECTION 13376

SYM	DESCRIPTION	QTY	MANUFACTURER & MODEL NUMBER
	Microphone, paging	1	Shure MX 412D/S Provide phantom power
	Microphone, multipurpose	4	Audio Technica ATM-61HE Electro-Voice N/D 767A Shure BETA 57A
	Lapel Microphone	1	Electro-Voice RE90 LAT
	25' Microphone cord	2	Conquest B84-25 Pro Co M-25
	50' Microphone cord	2	Conquest B84-50 Pro Co M-50
	Microphone stand, floor	4	AtlasSound MS-20E
	Multi-input adaptor box	2	EMtech EJ-8
M	Microphone Input	A/R	EMtech MSC-M
C	Remote Control	A/R	Symnet ARC-K1
IR	Infrared detectors	A/R	IVIE IR-1
	Digital Signal Processor	1	Symnet Express 12x4
▶	*Amplifier, 200 watt + rmk, dual channel PA*	A/R	Crown CTs 600
	Module	A/R	TOA B-01S
△	Speaker, 8" recessed with transformer	A/R	Altec Lansing CD408-8T Atlas Sound GD87 CDK MX 802 Electro-Voice 309-8T
	Speaker grille, round	A/R	Atlas Sound T720-8A Lowell CN-8M
▶	Speaker, full range	A/R	JBL Control 28T w/ MTC-28CM
TVSS	Transient voltage surge suppressor	A/R	PSP Products V1500S or equal

A/R = As Required per drawing, 0 = Existing equipment to be used, B = Brown device and cover plate



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