

CAMP WILLIAMS UTES EAST REMODEL DESIGN

Utah National Guard
Camp Williams



State of Utah—Department of Administrative Services

**DIVISION OF FACILITIES CONSTRUCTION
AND MANAGEMENT**

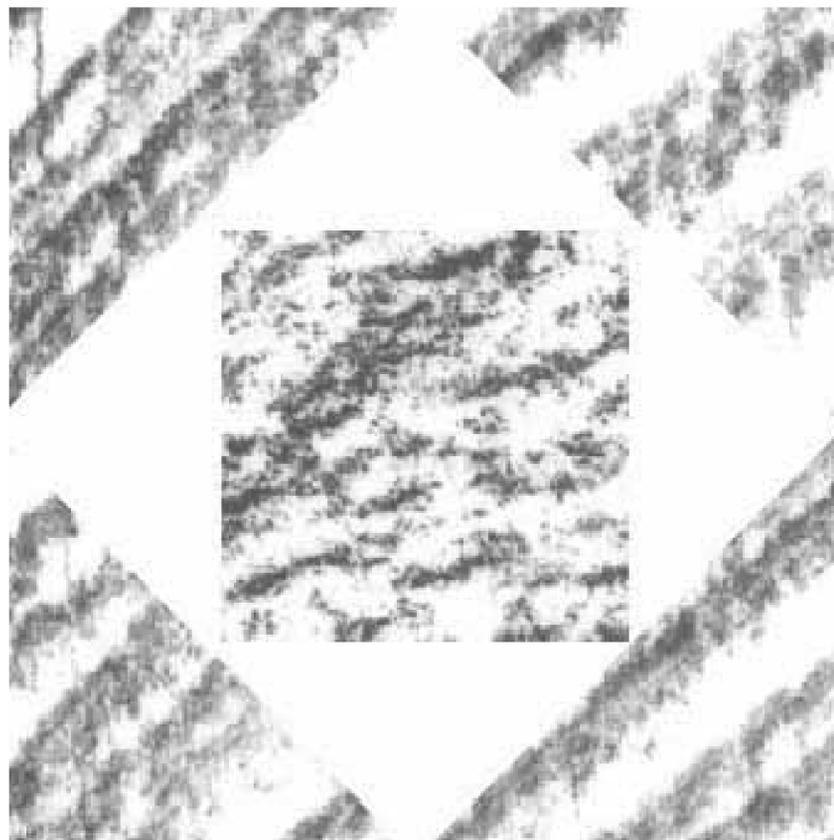
4110 State Office Building / Salt Lake City, Utah 84114 / 538-3018

HFS Architects

ARCHITECTURE
INTERIORS
PLANNING

1484 South State Street
Salt Lake City, Utah 84115
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www.hfsa.com

CONSULTANT



GENERAL ABBREVIATIONS

Act.	Acoustic Ceiling Tile	Galv.	Galvanized	G.T.	Quarry Tile
Alt.	Alternate	G.I.	Galvanized Iron	Rad.	Radius
Alum.	Aluminum	Ga.	Gauge	R.B.	Rubber Base
A.B.	Anchor Bolt	Gl.	Glass	R.W.L.	Rain Water Leader
And	And	Gr.	Grade	R.F.F.	Reference Finish Floor
Arch.	Architectural	Grnd.	Ground	Reinf.	Reinforcing
@	At or At The	Gyp. Bd.	Gypsum Board	Reinf.	Reinforcing
Bm.	Beam	GWB	Gypsum Waterproof Board	Rog.	Roughed
Bkg.	Block	H.D.P.E.	High Density Polyethylene	Ret.	Retaining
Bldg.	Building	HGF	Hardware Group #	Riv.	Riveted
Blk.	Blocking	Hdwd.	Hardware	Riser	Riser
Bo.	Bottom	Ht.	Height	R.D.	Roof Drain
Bldg.	Building	H.P.	High Point	Rm.	Room
Cmp.	Carpet	Horiz.	Horizontal	R.O.	Rough Opening
Ckg.	Caulking	H.B.	How-Bolt	Sched.	Schedule
Cls.	Cast Iron	H.M.	Hollow Metal	Sol.	Solids
Cg.	Celling	Hr.	Hours (Fire Rating)	Sect.	Section
Com.	Comments	In.	Inch	S.Sk.	Service Sink
Ctr.	Center	I.D.	Inside Diameter	Sht.	Sheet
C	Center Line	Insul.	Insulation	Sim.	Similar
Cer.	Ceramic	Int.	Interior	Slp.	Slope
C.T.	Ceramic Tile	I.E.	Invert Elevation	S.C.	Solid Core
Cr.	Clear (ance)	Inv.	Invert Elevation	Spec.	Specifications
Col.	Color	Jan.	Janitor	Sq.	Square
Col.	Column	Jt.	Joint	Std.	Standard
Conc.	Concrete	J-Box	Junction Box	Stl.	Steel
CMU	Concrete Masonry Unit	Kit.	Kitchen	Stor.	Storage
CMF	Corrugated Metal Pipe	Lam.	Laminated	Struct.	Structural/Structure
Comp.	Competition	Law.	Laboratory	Sym.	Symmetrical
Constr.	Construction	Lt.	Light	T.B.R.	To Be Removed
Cont.	Continue/Continuous	L.P.	Low Point	Tel.	Telephone
Contr.	Contractor	Matl.	Material	Temp.	Temporary/Tempered
C.J.	Control Joint	Mas.	Masonry	Thk.	Thick (ness)
Cor.	Corridor	Maint.	Maintenance	T&G	Tongue and Groove
Cr.	Counter	Mfr.	Manufacturer	T/Cnc	Top of Concrete
Cr.	Countersunk	M.H.	Manhole	T/Curb	Top of Curb
Det.	Detail	M.G.	Masonry Opening	T.O. FTG.	Top of Footing
Dept.	Department	Max.	Maximum	T.O.P.	Top of Plate
Dia.	Diameter	Mech.	Mechanical	T.P.	Top of Wall
Dm.	Down	Mem.	Membrane	Tread	Tread
Drs.	Dimension	Men	Men's Toilets	Typ.	Typical
Dn.	Down	Mt./Met.	Metal	Unf.	Unfinished
Dwg.	Drawing	Min.	Minimum	U.N.O.	Unless Noted Otherwise
D.F.	Drinking Fountain	Mir.	Mirror	Var.	Vary or Varies
E.	East	Misc.	Miscellaneous	Vert.	Vertical
Ea.	Each	Mtd.	Mounted	V.T.R.	Vent Through Roof
Elev./EL	Elevation	Mul.	Mulch	W.C.	Wrought Iron
Exist.	Existing	Nom.	Nominal	w/	With
Eq.	Equipment	N.	North	W.A.S.	Welded Anchor Stud
Equip.	Equipment	N.I.C.	Not In Contract	Wd.	Wood
Exist.	Existing	N.T.S.	Not To Scale	Wp.	Waterproof
Exp.	Expansion	No. or #	Number	Wtct.	Wainscot
Ext.	Exterior	Off.	Office	With.	Without
Fin.	Finish	O.C.	On Center	W.P.	Working Point
F.A.	Fire Alarm	Opp.	Opposite	W.R.	Water Resistant
F.E.	Fire Extinguisher	Opp.H.	Opposite Hand	Wl.	Wrought Iron
F.E.C.	F.E. Cabinet	O.D.	Outside Diameter		
Flr./FL	Floor	O.R.D.	Overflow Roof Drain		
F.D.	Floor Drain				
F.O.S.	Face of Stud				
F.O.W.	Face of Wall				
Ftg.	Footing				
Fdn.	Foundation				
F.F.	Finish Floor				

MATERIALS LEGEND

	EARTH		GRAVEL
	SAND		CONCRETE
	CONCRETE W/ ARCH. FINISH		CAST STONE
	CMU		MARBLE
	BRICK		GRANITE
	LIMESTONE		STONE
	WOOD (BLOCKING)		PLYWOOD
	WOOD FRAMING		WOOD FINISH
	STEEL		ALUMINUM
	RIGID INSULATION		BATT INSULATION
	PLASTER		ACOUSTICAL TILE
	COMPRESSIBLE FILLER		BACKER ROD AND FILLER
	METAL LATH		GYPSUM BOARD
	FENCE		TO REMOVE

CODE ANALYSIS

APPLICABLE CODES		
Code	Year	Year
International Building Code	2009	2009
International Mechanical Code	2009	2009
International Plumbing Code	2009	2009
International Fire Code	2009	2009
International Energy Conservation Code	2009	1994
National Electrical Code	2008	2008
Uniform Code for Building Conservation	2009	2009
Dept. of Justice ADA Standards for Accessible Design	2009	1994
ICC/ANSI A117.1-2003		

A. Occupancy and Group: S1
 Change in Use: Yes No X Mixed Occupancy: Yes No X
 Special Use and Occupancy (e.g. High Rise, Covered Mall): NO
 B. Seismic Design Category: 1 Design Wind Speed: 90 mph
 C. Type of Construction (circle one):
 I A I B I C I D I E I F I G I H I J I K I L I M I N I O I P I Q I R I S I T I U I V I W I X I Y I Z
 D. Fire Resistance Rating Requirements for the Exterior Walls based on the fire separation distance (in hours):
 North: N.A. South: N.A. East: N.A. West: N.A.
 E. Mixed Occupancies: NO Nonseparated Uses: NO
 F. Sprinklers:
 Required: NO Provided: NO Type of Sprinkler System: N.A.
 G. Number of Stories: ONE Building Height: 21'-0"
 H. Actual Area per Floor (square feet): 17,500 SF
 I. Tabular Area: 17,500 SF
 J. Area Modifications:

$$A_a = A_1 + [A_1 I_1] + [A_1 I_2]$$

$$I_1 = \left[\frac{F}{P} - 0.25 \right] \frac{W}{30}$$

$$30,625 = 17,500 + [(17,500)(0.75)] + [(17,500)(0)]$$

$$0.75 = [542542 - 0.25] \frac{30,625}{30}$$
 b) Sum of the Ratio Calculations for Mixed Occupancies:

$$\frac{\text{Actual Area}}{\text{Allowable Area}} \leq 1$$
 c) Total Allowable Area for:
 1) One Story: 30,625 SF
 2) Two Story: N.A.
 3) Three Story: N.A.
 d) Unlimited Area Building: Yes No X Code Section:
 K. Fire Resistance Rating Requirements for Building Elements (Hours):

Element	Hours	Assembly Listing	Element	Hours	Assembly Listing
Exterior Bearing Walls	N/A	N/A	Floors - Ceiling Floors	N/A	N/A
Interior Bearing Walls	N/A	N/A	Roofs - Ceiling Roofs	N/A	N/A
Exterior Non-Bearing Walls	N/A	N/A	Exterior Doors and Windows	N/A	N/A
Structural Frame	N/A	N/A	Shaft Enclosures	N/A	N/A
Partitions - Permanent	N/A	N/A	Fire Walls	N/A	N/A
Fire Barriers	N/A	N/A	Fire Partitions	N/A	N/A
			Smoke Partitions	N/A	N/A

 L. Design Occupant Load: 61 Exit Width Provided: 180'
 Exit Width Required: 122' Minimum Number of Required Plumbing Facilities:
 a) Water Closets - Required (m) 1 (f) 1 Provided (m) 2 (f) 2 (u) 1
 b) Lavatories - Required (m) 1 (f) 1 Provided (m) 2 (f) 2 (u) 1
 c) Bath Tubs or Showers: 5
 d) Drinking Fountains: 2 Service Sinks: 2
 FOOTNOTES:
 1) In case of conflict with the U.S. Department of Justice Federal Registers Parts I through X - ADA Guidelines and specific reference to the International Building Code Accessibility Chapters, the more restrictive requirement shall govern.
 2) Additional Code Information shall be provided at the discretion of the Building Official for Complex Buildings. Including, but not limited to:
 a) High Rise Requirements. e) Fire Assembly Locator Sheet.
 b) Atriums. f) Exterior and Interior Accessibility Route.
 c) Performance Based Criteria. g) Fire Stopping, Including Tested Design Number.
 d) Means of Egress Analysis.

PROJECT DIRECTORY

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STRUCTURAL ENGINEER
WCA Structural Engineering 442 North Main Street, Bountiful, Utah 84010 (801) 298-1118
MECHANICAL ENGINEER
Olsen & Peterson Consulting Engineers, Inc. 14 East 2700 South, Salt Lake City, Utah 84115 (801) 486-4646
ELECTRICAL ENGINEER
Electrical Engineering & Electrical Design 220 South 300 West, Salt Lake City, Utah 84101 (801) 486-2222

GRAPHIC SYMBOLS

	BLDG. ELEV. SYMB.		R.M. NAME
	BLDG. SECT. SYMB.		R.M. NAME/NUMB.
	WALL SECT. SYMB.		R.M. FINISH SYMB.
	KEYED NOTE SYMB.		CEIL. FINISH/ELEV. SYMB.
	DATUM PT. SYMB.		DETAIL REF. SYMB.
	SPOT ELEV. SYMB.		INTR. ELEV. SYMB.
	DOOR/HDWR. SYMB.		WINDOW SYMB.

DRAWING INDEX

MARK	DATE	DESCRIPTION
G100		TITLE SHEET, GENERAL INFO, & SHEET INDEX
AS100		EXISTING CONDITIONS & UTILITY SITE PLAN
AS101		SITE DEMOLITION PLAN
AS102		NEW SITE PLAN
AD101		DEMOLITION PLAN
AD111		REFLECTED CEILING DEMOLITION PLAN
AE101		NEW FLOOR PLAN
AE111		NEW REFLECTED CEILING PLAN
AE120		NEW ROOF PLAN & ROOFING DETAILS
AE201		BUILDING ELEVATIONS
AE301		BUILDING SECTIONS & WALL SECTIONS
AE302		BUILDING SECTIONS & WALL SECTIONS
AE401		ENLARGED PLANS & INTERIOR ELEVATIONS
AE501		CEILING & ADA DETAILS
AE601		DOOR SCHEDULE & DOOR DETAILS
AE701		CASEWORK DETAILS
GE101		STRUCTURAL GENERAL NOTES
SE100		STRUCTURAL GENERAL NOTES
SE101		FOUNDATION PLAN
SE102		ROOF FRAMING PLAN
SE501		DETAILS
SE502		DETAILS
P101		PLUMBING DEMOLITION PLAN
P201		PLUMBING REMODEL PLAN
P401		PLUMBING LARGE SCALE PLAN
P501		PLUMBING DETAILS
P601		PLUMBING SCHEDULE & LEGEND
M101		MECHANICAL DEMOLITION PLAN
M201		MECHANICAL REMODEL PLAN
M401		MECHANICAL LARGE SCALE PLAN
M501		MECHANICAL DETAILS
M502		REFRIGERANT DETAILS
M601		MECHANICAL SCHEDULES
M602		MECHANICAL SCHEDULES
ME101		MECHANICAL CONTROLS
EE101		PANEL SCHEDULE, DETAILS, SYMBOLS LIST
ED101		MAIN LEVEL FLOOR PLAN - DEMOLITION
EP101		MAIN LEVEL FLOOR PLAN - POWER
EL101		MAIN LEVEL FLOOR PLAN - LIGHTING

CAMP WILLIAMS UTES EAST REMODEL DESIGN

UTAH NATIONAL GUARD
CAMP WILLIAMS

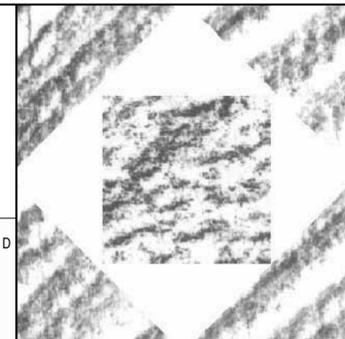
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		HFS PROJECT NO: 1022.01
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		CHECKED BY: MDP
		DESIGNED BY: RLS
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		ARCHITECTURAL PHASE:
		CONSTRUCTION DOCUMENTS BID SET
		SHEET TITLE

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TITLE SHEET,
GENERAL INFO,
& SHEET INDEX

G100

SHEET 1 OF 16



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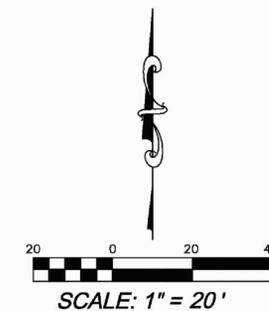
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**EXISTING CONDITIONS
 & UTILITY
 SITE PLAN**

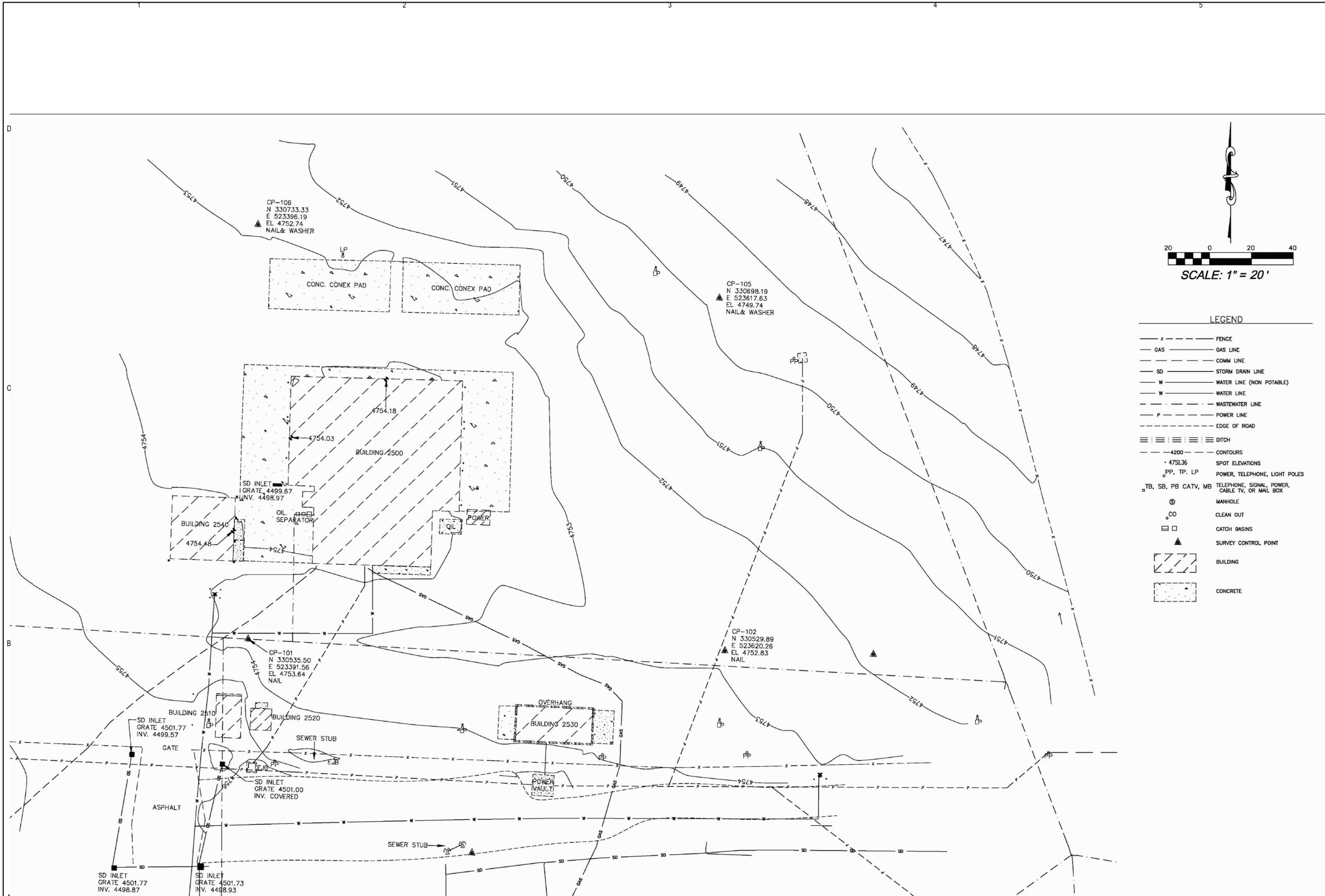
AS100

SHEET 2 OF 16



LEGEND

---	FENCE
---	GAS LINE
---	COMM LINE
---	STORM DRAIN LINE
---	WATER LINE (NON POTABLE)
---	WATER LINE
---	WASTEWATER LINE
---	POWER LINE
---	EDGE OF ROAD
---	DITCH
---	CONTOURS
4751.36	SPOT ELEVATIONS
PP, TP, LP	POWER, TELEPHONE, LIGHT POLES
TB, SB, PB, CATV, MB	TELEPHONE, SIGNAL, POWER, CABLE TV, OR MAIL BOX
⊙	MANHOLE
⊙	CLEAN OUT
⊠	CATCH BASINS
▲	SURVEY CONTROL POINT
▨	BUILDING
▤	CONCRETE



383 West Vine Street, Suite 400
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 www.stanleygroup.com

BUILDING 2500 - EXISTING CONDITIONS MAP
 UTAH NATIONAL GUARD
 17800 S. CAMP WILLIAMS ROAD
 RIVERTON, UTAH 84062

NO.	REVISIONS	DWN	APVD	DATE

SECTION 26 TOWNSHIP 4 SOUTH, RANGE 1 WEST SALT LAKE BASE & MERIDIAN	
DESIGNED _____	SCALE: AS NOTED NO. 1 OF 1
DRAWN <u>TDL</u>	
CHECKED <u>MBH</u>	
APPROVED <u>CRY</u>	
STANLEY JOB NO. _____ DATE <u>JUNE 2010</u>	

A3 EXIST. CONDITIONS & UTILITY SITE PLAN
 N.T.S.

GENERAL NOTES

1. ALL DIMENSIONS & EXISTING CONDITIONS IN AREAS OF WORK ARE TO BE FIELD VERIFIED PRIOR TO COMMENCING WORK - ANY DISCREPANCIES ARE TO BE REPORTED TO THE ARCHITECT OR ENGINEER OF RECORD PRIOR TO COMMENCING WORK.
2. PROTECT ALL AREAS & SURFACES ADJACENT TO DEMOLITION & CONSTRUCTION. PATCH & REPAIR ANY DAMAGE RESULTING FROM THE DEMOLITION OF EXISTING ITEMS OR THE CONSTRUCTION OF NEW ITEMS.
3. NOTED AREAS INDICATED THE GENERAL EXTENT OF DEMOLITION. THE CONTRACTOR'S CHOICE OF MEANS & METHODS OF CONSTRUCTION MAY REQUIRE MORE OR LESS DEMOLITION. THE MEANS & METHODS OF DEMOLITION & CONSTRUCTION MUST BE ACCOUNTED FOR IN THE CONTRACTORS BID. ANY DEMOLITION & REPAIR TO ADJACENT SURFACES BEYOND THE AREAS INDICATED IN THE CONTRACT DOCUMENTS WILL NOT BE COMPENSATED FOR AFTER THE BID OPENING.
4. 72-HOUR NOTICE IS REQUIRED FOR ANY UTILITY SHUT DOWN.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL EXISTING SITE IMPROVEMENTS WHICH ARE TO REMAIN FREE FROM DAMAGE DURING CONSTRUCTION BOTH INSIDE AND OUTSIDE THE CONTRACT LIMIT LINE.
6. CONTRACTOR SHALL VERIFY EXACT LOCATION OF ALL UTILITIES & SITE IMPROVEMENTS WHICH ARE AFFECTED BY OR WHICH TIE IN WITH NEW CONSTRUCTION.
7. PROVIDE TEMPORARY 6'-0" HIGH CHAIN LINK FENCE @ PROJECT LIMIT LINE, COMPLETE W/GATES AS REQUIRED, UNLESS NOTED OTHERWISE.
8. EXISTING ROADS, PARKING, SERVICE DRIVES, & SIDEWALKS SHALL REMAIN ACCESSIBLE & KEPT CLEAR OF CONSTRUCTION EQUIPMENT, MATERIALS, DIRT AND DEBRIS.

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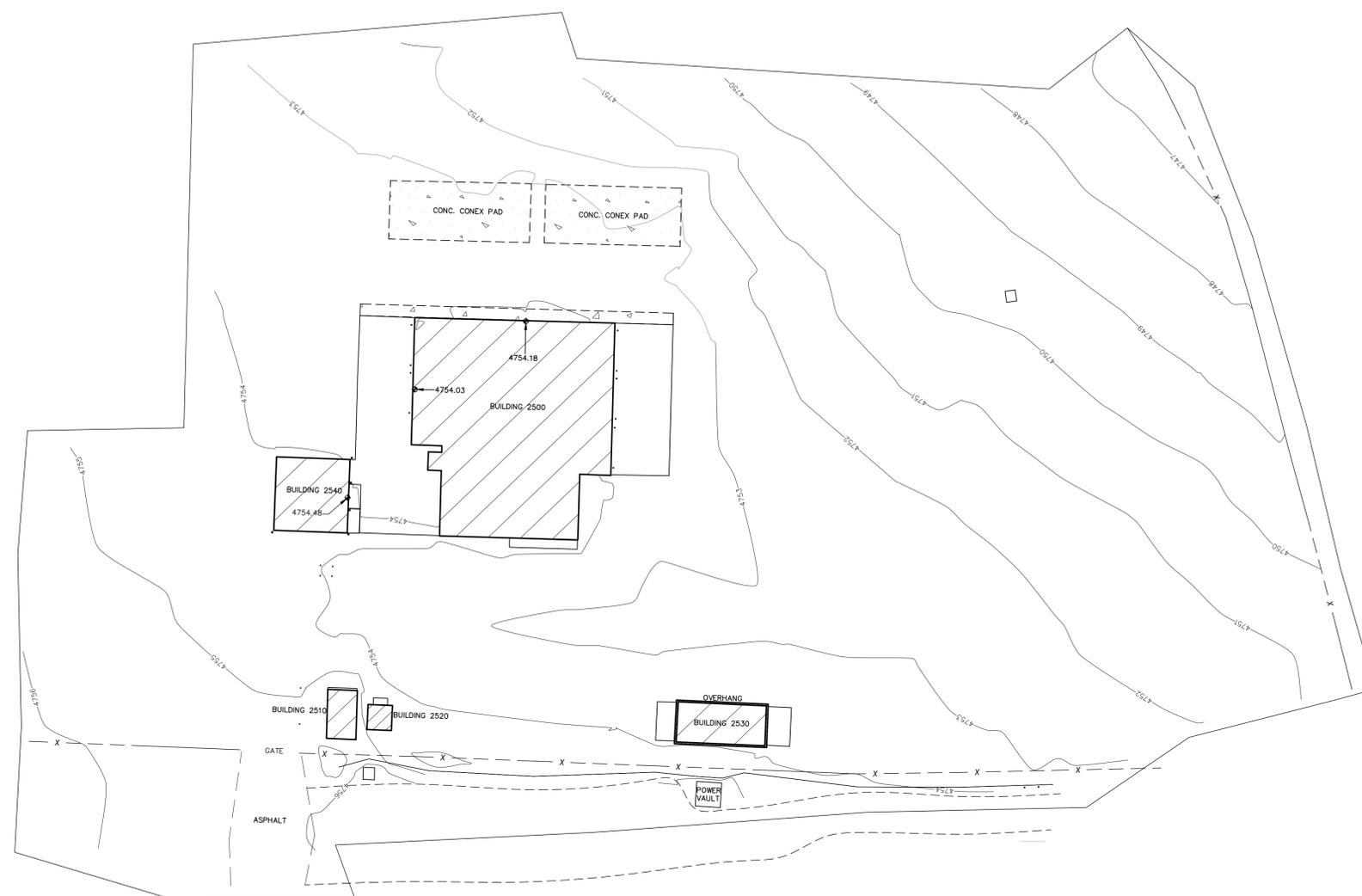
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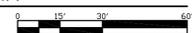
SITE
DEMOLITION PLAN

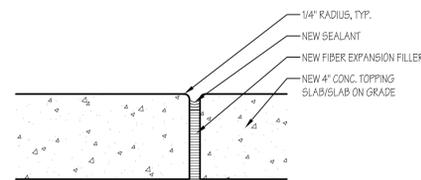
AS101

SHEET 3 OF 16

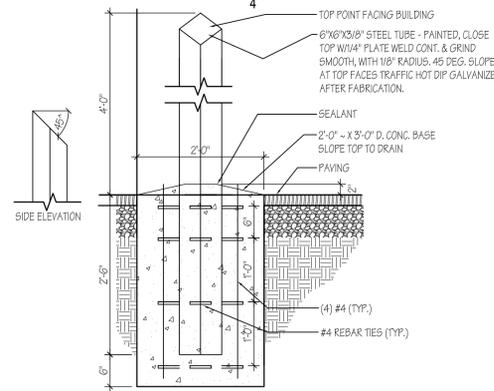


A2 SITE DEMOLITION PLAN
1" = 30'-0"





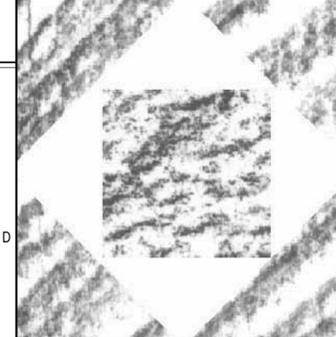
D3 CONCRETE JOINT DETAIL
N.T.S.



D4 BOLLARD DETAIL
3/4"=1'-0"

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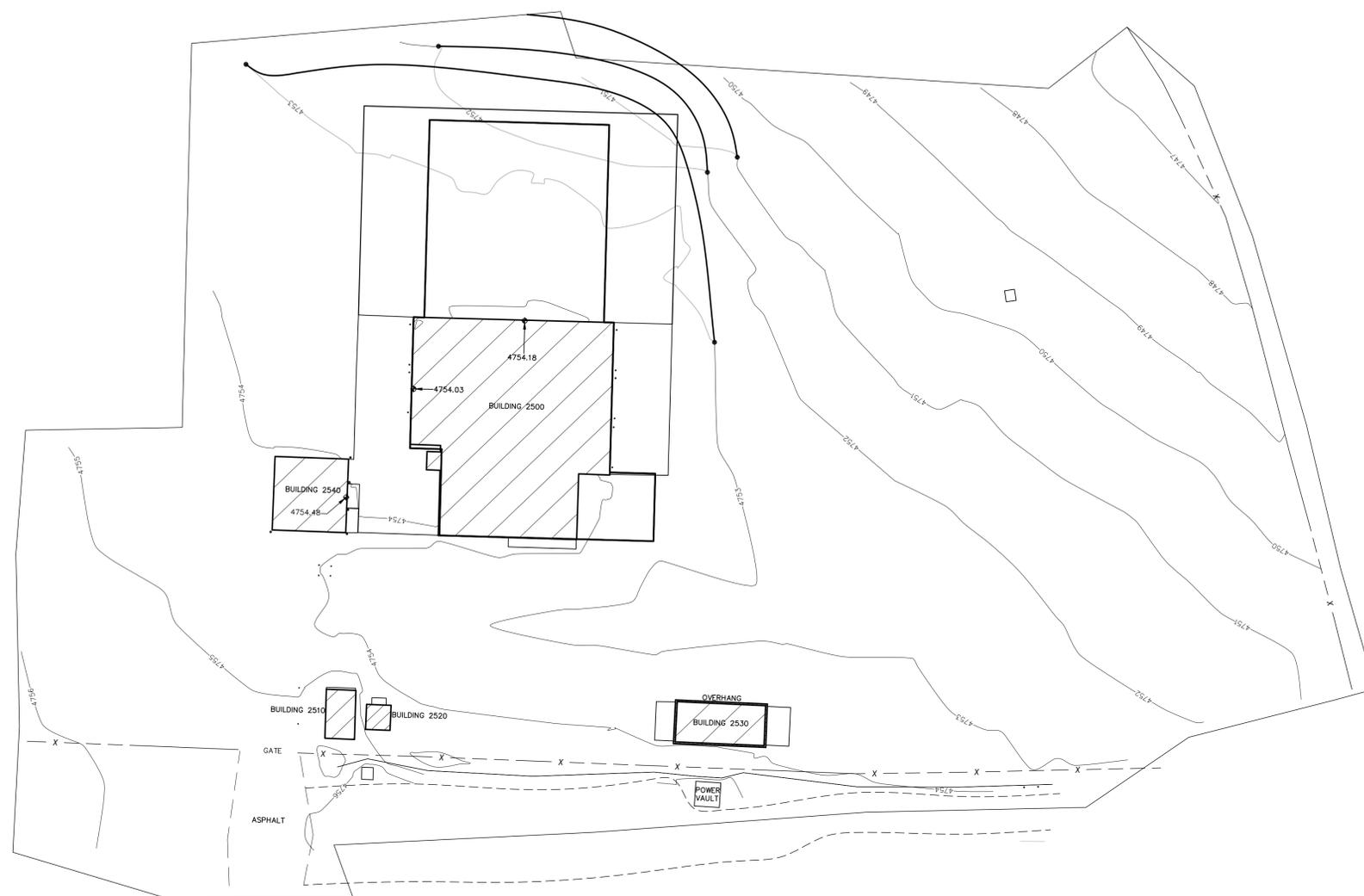
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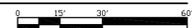
**NEW SITE PLAN
& SITE PLAN**

AS102

SHEET 4 OF 16



A2 NEW SITE PLAN
1"=30'-0"



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DEMOLITION KEYED NOTES

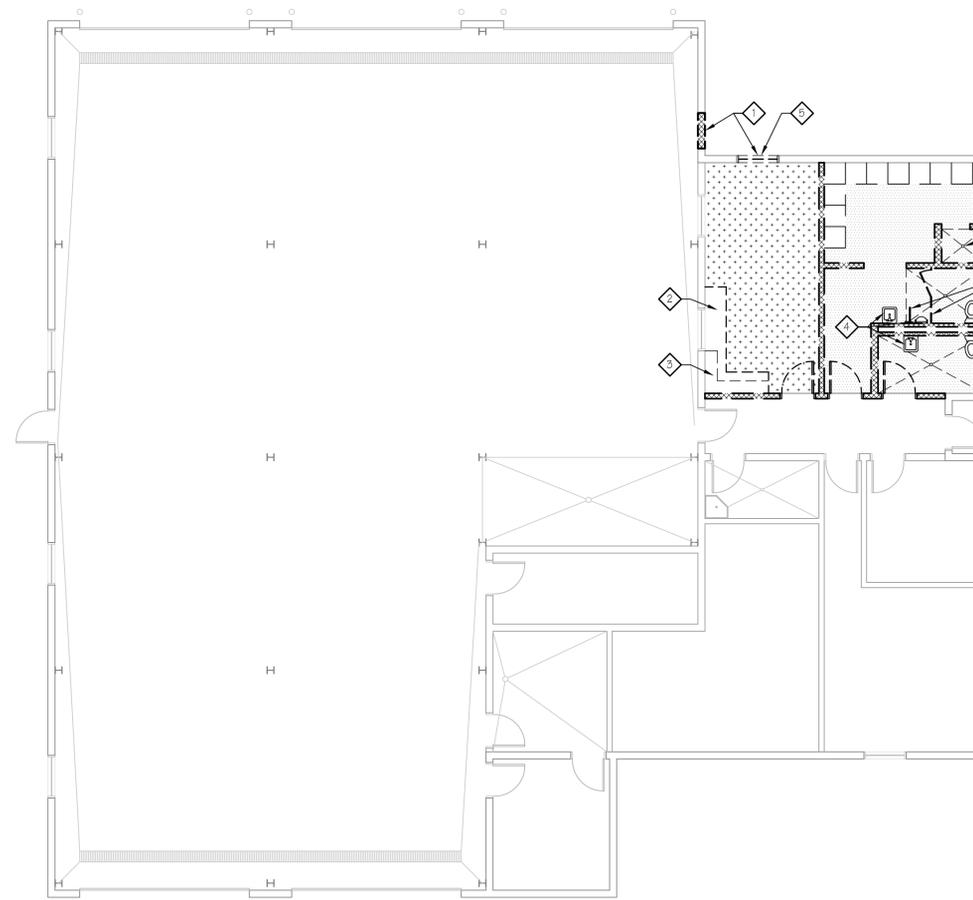
- ◇ EXISTING CMU BLOCK TO BE REMOVED AND PREPARED FOR NEW DOOR, SEE DOOR SCHEDULE AA/AE60L.
- ◇ EXISTING COUNTERTOP AND CABINET BASE TO BE DEMOLISHED.
- ◇ EXISTING WALL CABINETS AND SHELVING TO BE DEMOLISHED.
- ◇ EXISTING PLUMBING FIXTURES TO BE DEMOLISHED.
- ◇ EXISTING WINDOW TO BE DEMOLISHED.
- ◇ EXISTING SHOWER TO BE DEMOLISHED.
- ◇ EXISTING TOILET PARTITION & URINAL SCREEN TO BE DEMOLISHED.

PLAN DEMOLITION LEGEND

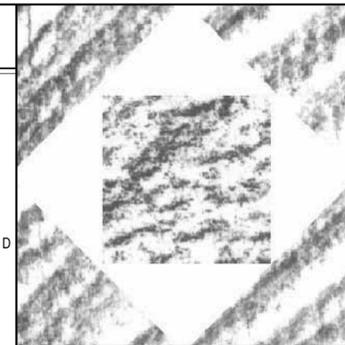
-  DEMOLISH EXISTING VCT.
-  DEMOLISH EXISTING CERAMIC FLOOR TILE.
-  DEMOLISH EXISTING METAL DOOR AND FRAME.
-  DEMOLISH EXISTING METAL LOCKERS.

PARTITION LEGEND

-  EXISTING WALL TO REMAIN, TYPICAL
-  EXISTING CMU WALL TO BE DEMOLISHED.
-  NEW 3-5/8" METAL STUD WALL W/ 5/8" GYPSUM BOARD BOTH SIDES TO 6" ABOVE FINISH CEILING, BRACED TO STRUCTURE ABOVE @ 4'-0" O.C.
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-  PREFABRICATED METAL BUILDING SYSTEM.



A3 DEMOLITION PLAN
1/8"=1'-0"



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CAMP WILLIAMS UTES
EAST REMODEL DESIGN

UTAH NATIONAL GUARD
CAMP WILLIAMS

MARK	DATE	DESCRIPTION

DATE:	30 AUGUST 2010
AGENCY PROJECT NO:	10207480
HFSA PROJECT NO:	1022.01
CAD DWG FILE NO:	
DRAWN BY:	RLS
CHECKED BY:	MDP
DESIGNED BY:	RLS
DWG TYPE:	ARCHITECTURAL

ARCHITECTURAL PHASE:
CONSTRUCTION DOCUMENTS BID SET
SHEET TITLE

DEMOLITION PLAN

AD101

SHEET 5 OF 16

GENERAL NOTES

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CEILING DEMOLITION LEGEND

-  EXISTING GYPSUM BOARD CEILING TO BE DEMOLISHED.
-  EXISTING LIGHT FIXTURE TO BE DEMOLISHED.
-  EXISTING LIGHT FIXTURE TO BE DEMOLISHED.
-  EXISTING LIGHT FIXTURE TO BE DEMOLISHED.
-  EXISTING CEILING GRID AND PANELS TO BE DEMOLISHED.

PARTITION LEGEND

-  EXISTING WALL TO REMAIN, TYPICAL
-  EXISTING CMU WALL TO BE DEMOLISHED.
-  NEW 3-5/8" METAL STUD WALL W/ 5/8" GYPSUM BOARD BOTH SIDES TO 6" ABOVE FINISH CEILING, BRACED TO STRUCTURE ABOVE @ 4'-0" O.C.
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CAMP WILLIAMS UTES EAST REMODEL DESIGN

UTAH NATIONAL GUARD
CAMP WILLIAMS

MARK	DATE	DESCRIPTION

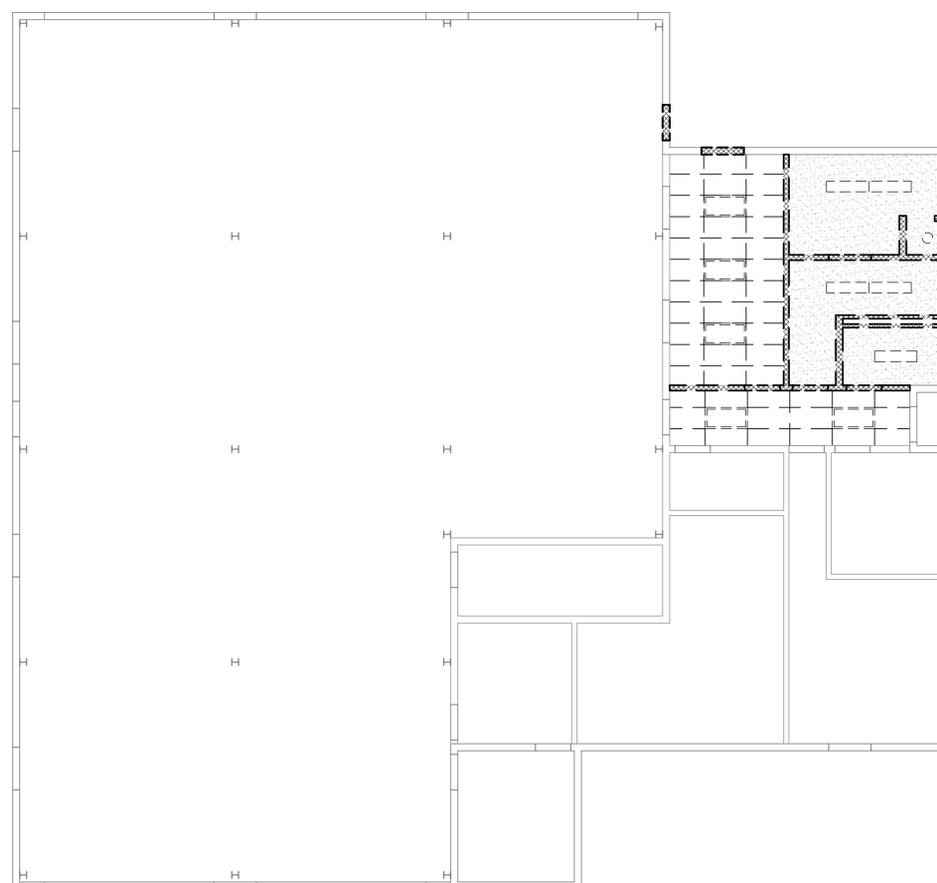
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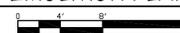
REFLECTED CEILING
DEMOLITION PLAN

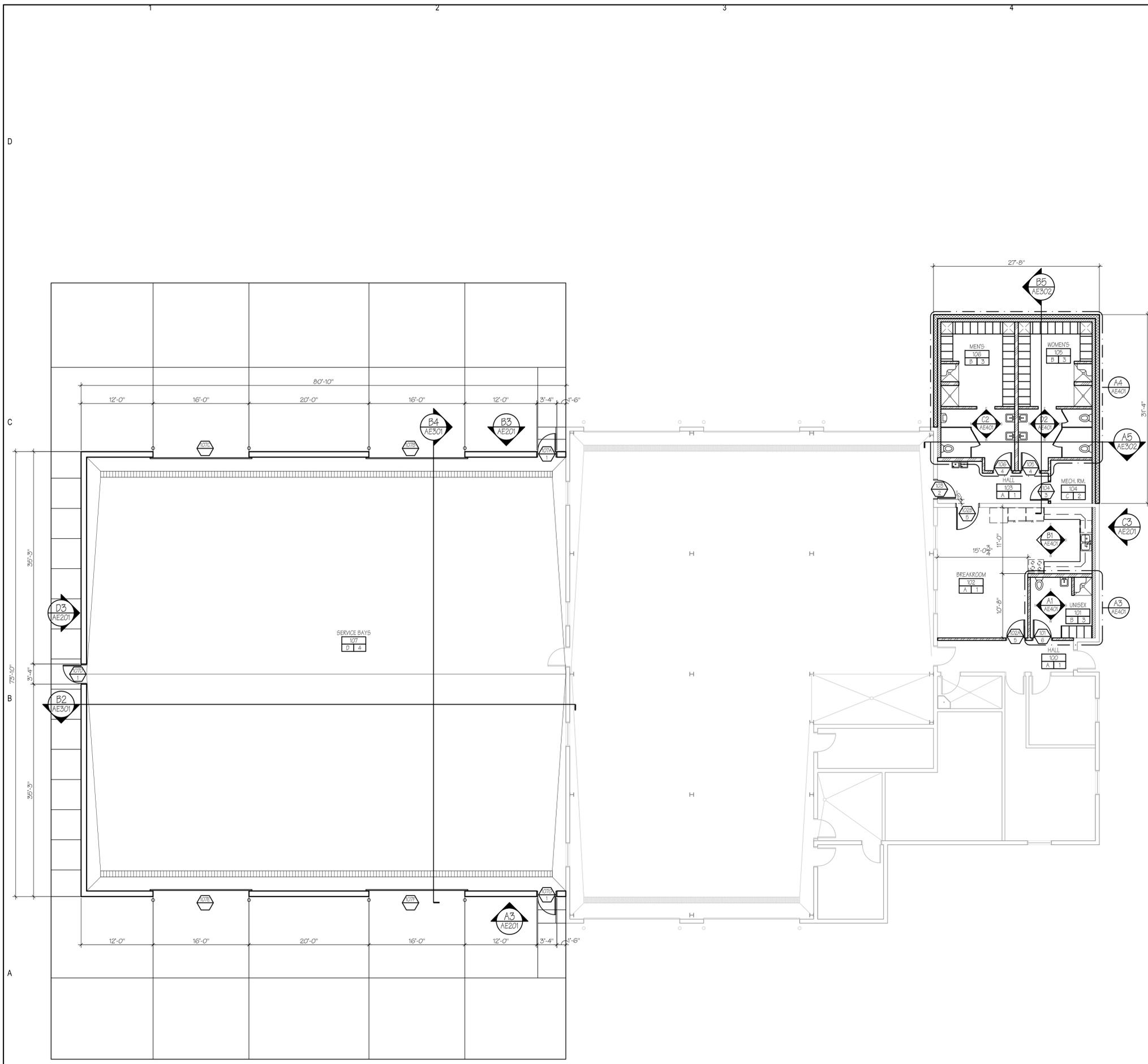
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SHEET 6 OF 16



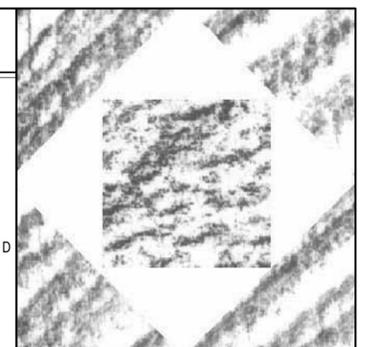
A3 REFLECTED CEILING DEMOLITION PLAN
1/8"=1'-0"





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FINISH LEGEND

ROOM NAME	
FLOOR / BASE	WALL / WAINSCOT
A. NEW VINYL COMPOSITE TILE.	1. EXISTING CMU WALLS TO BE PAINTED & NEW GYPSUM BOARD WALLS TO BE PAINTED.
B. NEW CERAMIC FLOOR TILE & 4" RUBBER BASE.	2. NEW GYPSUM BOARD WALLS TO BE PAINTED.
C. SEALED CONCRETE & 4" RUBBER BASE.	3. NEW GYPSUM BOARD WALLS WITH FRP PANELS.
D. SEALED CONCRETE.	4. NEW CDX PLYWOOD TO 8'-0" TO BE PAINTED.

PARTITION LEGEND

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- PREFABRICATED METAL BUILDING SYSTEM.

CAMP WILLIAMS UTES EAST REMODEL DESIGN

UTAH NATIONAL GUARD
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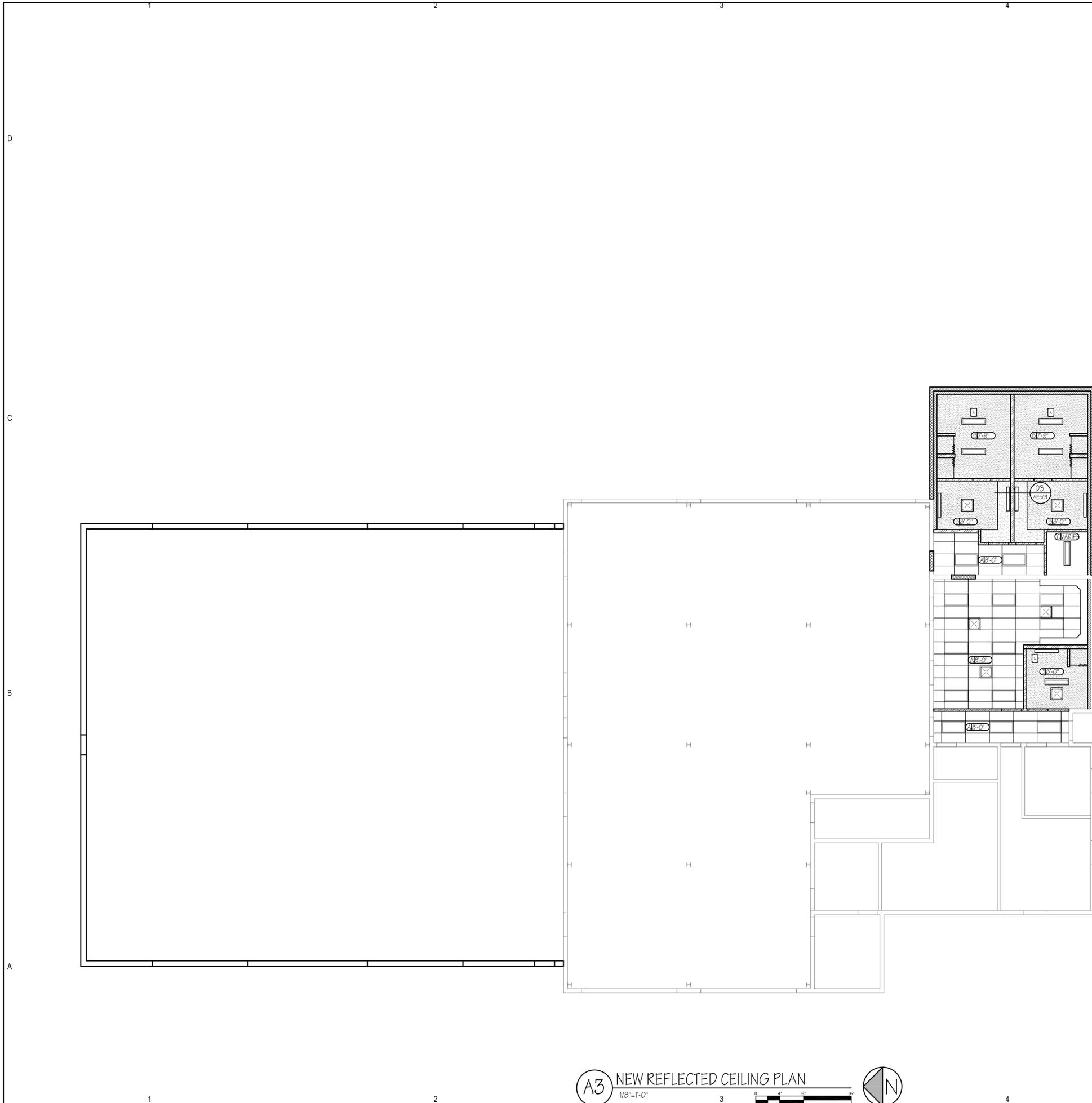
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ARCHITECTURAL PHASE:	CONSTRUCTION DOCUMENTS BID SET
SHEET TITLE	

NEW FLOOR PLAN

AE101
 SHEET 7 OF 16

A3 NEW FLOOR PLAN
 1/8"=1'-0"



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CEILING PLAN LEGEND

- NEW 2x4 LIGHT FIXTURES, SEE ELECTRICAL DRAWINGS.
- NEW 1x4 LIGHT FIXTURES, SEE ELECTRICAL DRAWINGS.
- NEW 6'x4' WALL MOUNTED LIGHT FIXTURES, SEE ELECTRICAL DRAWINGS.
- NEW MECHANICAL SUPPLY GRILLE, SEE MECHANICAL DRAWINGS.
- NEW EXHAUST FAN, SEE MECHANICAL DRAWINGS.

CEILING FINISH LEGEND

- CEILING FINISH CEILING ELEVATION
- A. NEW SUSPENDED 2x4 CEILING GRID SYSTEM WITH ACOUSTICAL PANELS
 - B. NEW GYPSUM BOARD CEILING TO BE PAINTED WITH POLYURETHANE PAINT
 - C. OPEN TO STRUCTURE ABOVE

PARTITION LEGEND

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UTAH NATIONAL GUARD
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 DRAWN BY: RLS
 CHECKED BY: MDP
 DESIGNED BY: RLS
 DWG TYPE: ARCHITECTURAL

ARCHITECTURAL PHASE:
 CONSTRUCTION DOCUMENTS BID SET

NEW REFLECTED CEILING PLAN

AE111
 SHEET 8 OF 16

GENERAL NOTES

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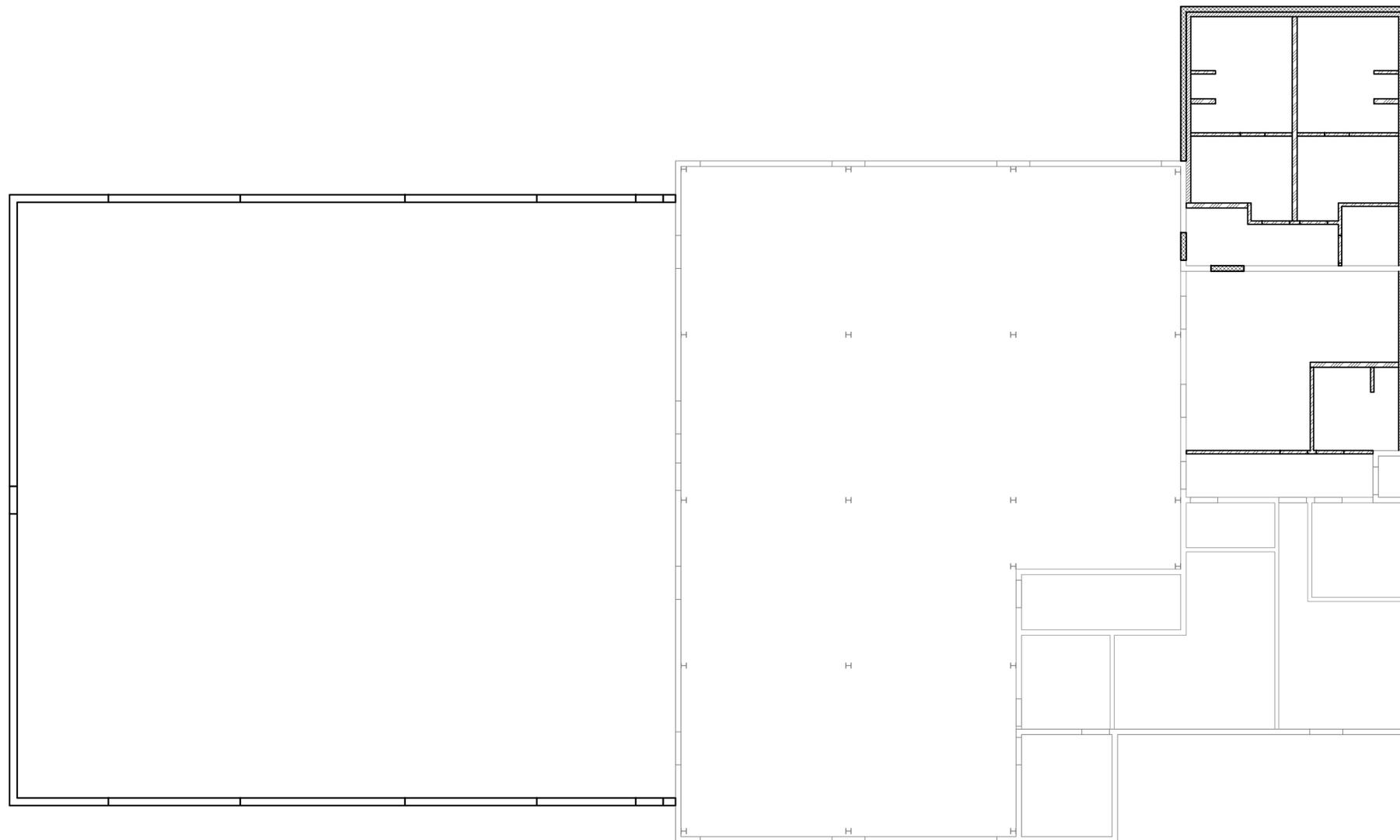
ARCHITECTURAL PHASE:
CONSTRUCTION DOCUMENTS BID SET

SHEET TITLE

ROOF PLAN

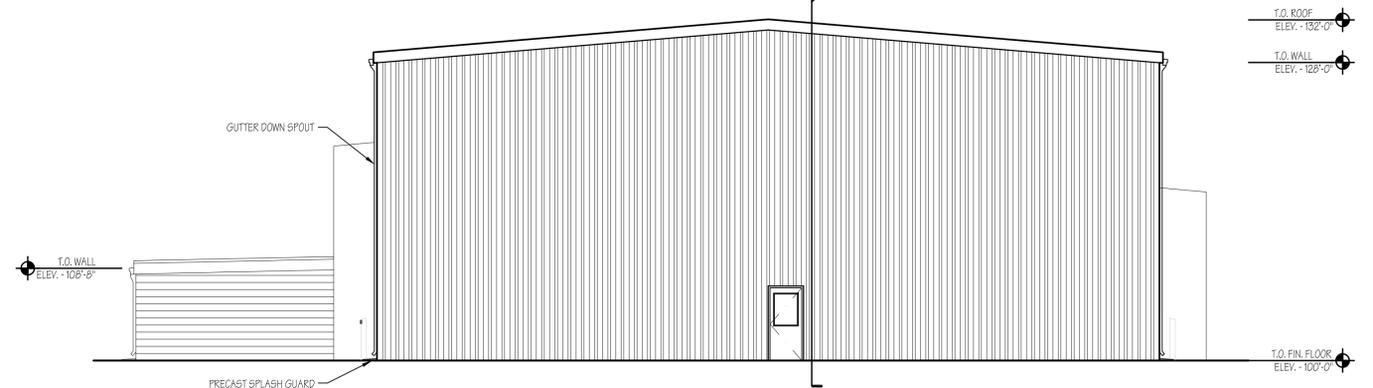
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SHEET 9 OF 16

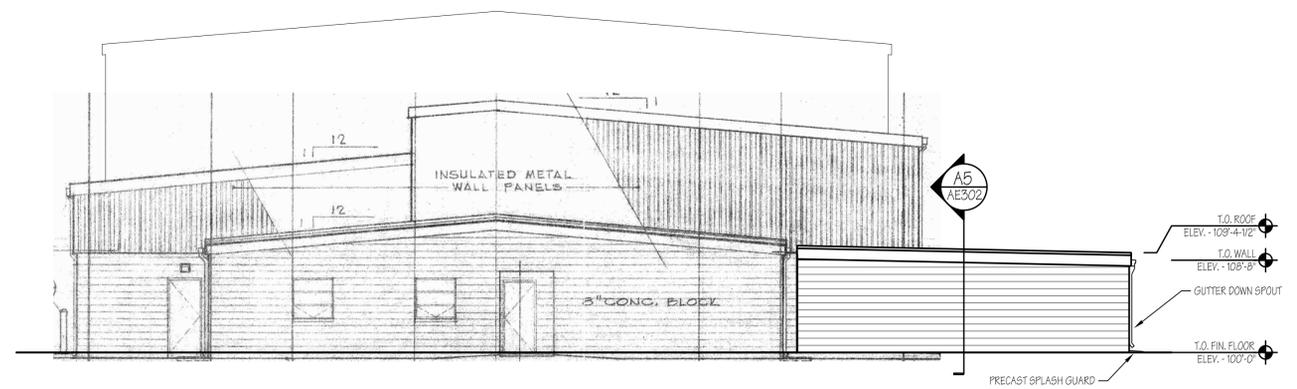


A3 NEW ROOF PLAN
1/8"=1'-0"

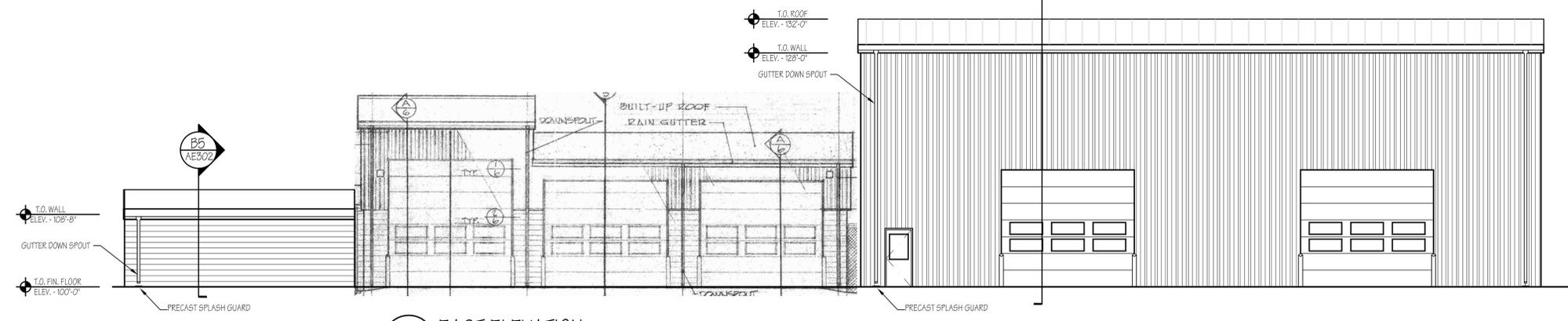




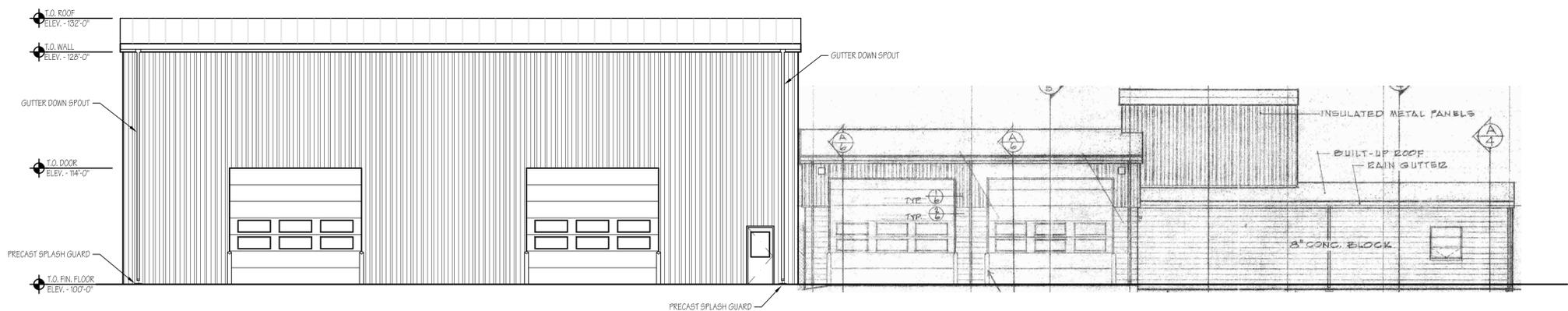
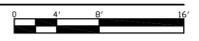
D3 NORTH ELEVATION
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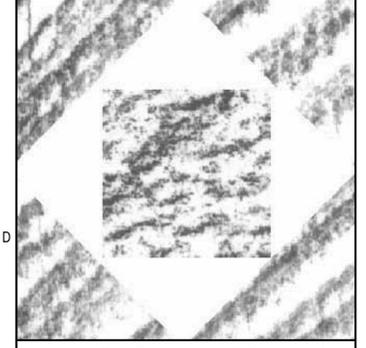
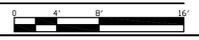
C3 SOUTH ELEVATION
1/8"=1'-0"



B3 EAST ELEVATION
1/8"=1'-0"



A3 WEST ELEVATION
1/8"=1'-0"



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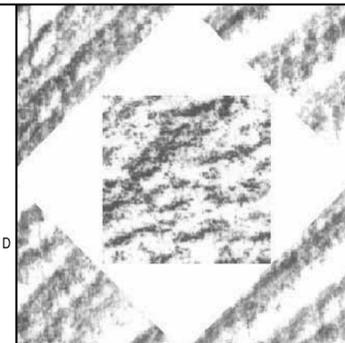
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ARCHITECTURAL PHASE:	CONSTRUCTION DOCUMENTS BID SET
SHEET TITLE	

BUILDING ELEVATIONS

AE201

SHEET 10 OF 16



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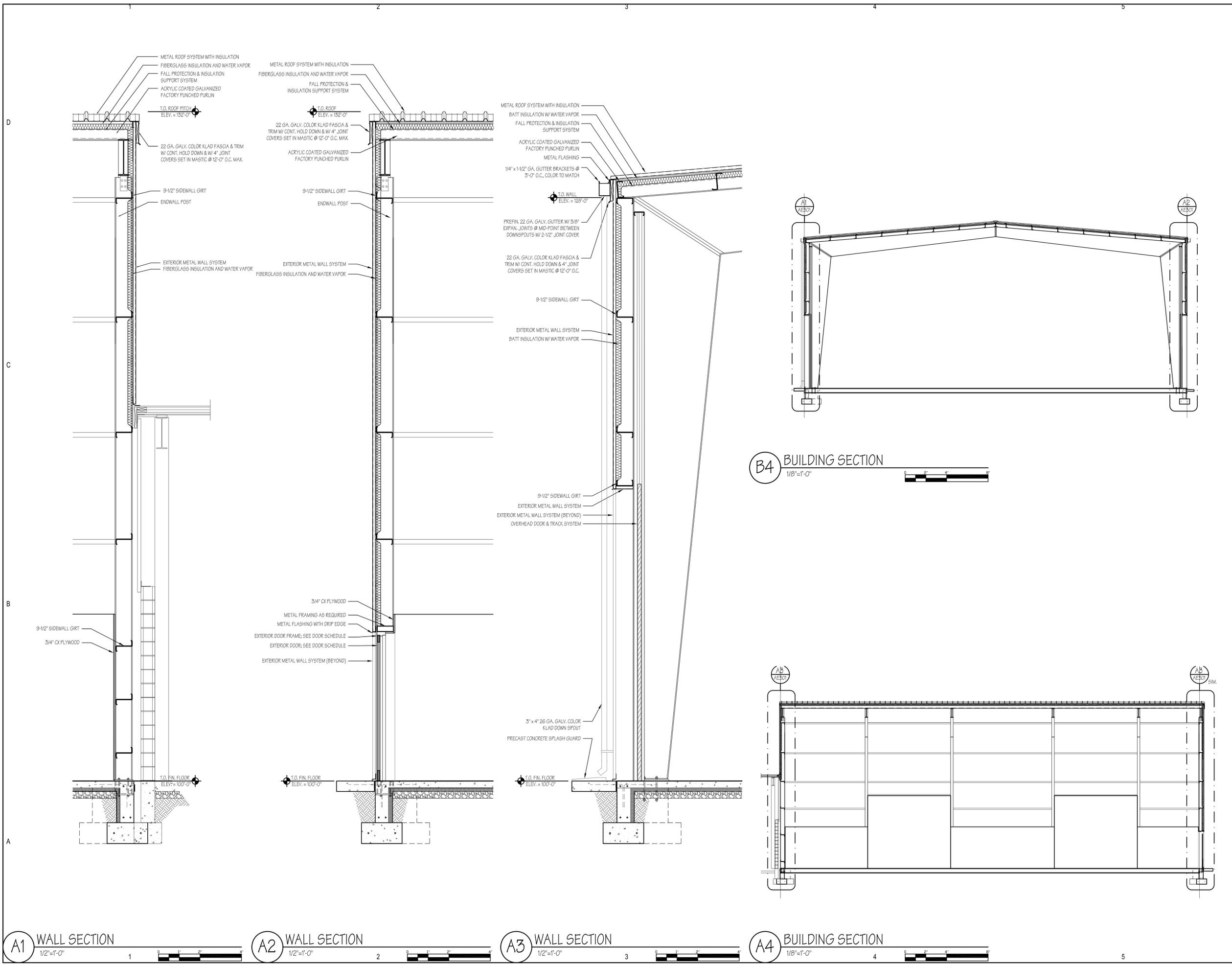
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**BUILDING SECTIONS
 & WALL SECTIONS**

AE301
 SHEET 11 OF 16



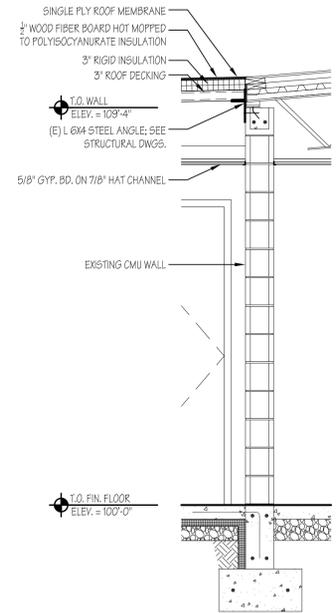
A1 WALL SECTION
 1/2"=1'-0"

A2 WALL SECTION
 1/2"=1'-0"

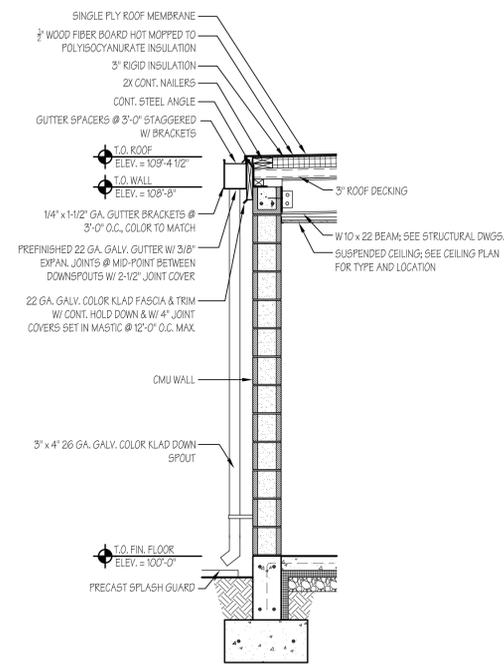
A3 WALL SECTION
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A4 BUILDING SECTION
 1/8"=1'-0"

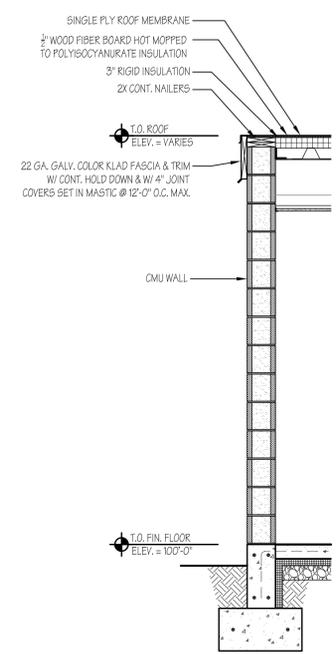
B4 BUILDING SECTION
 1/8"=1'-0"



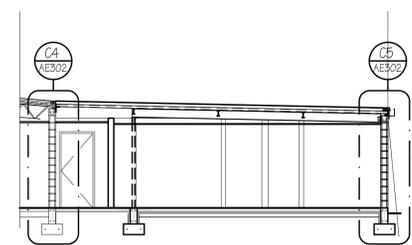
C4 WALL SECTION
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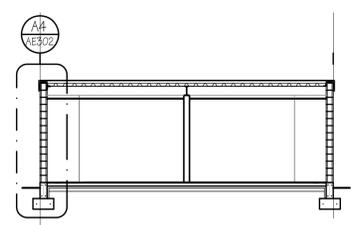
C5 WALL SECTION
1/2" = 1'-0"



A3 WALL SECTION
1/2" = 1'-0"



B5 BUILDING SECTION
1/8" = 1'-0"



A4 WALL SECTION
1/2" = 1'-0"



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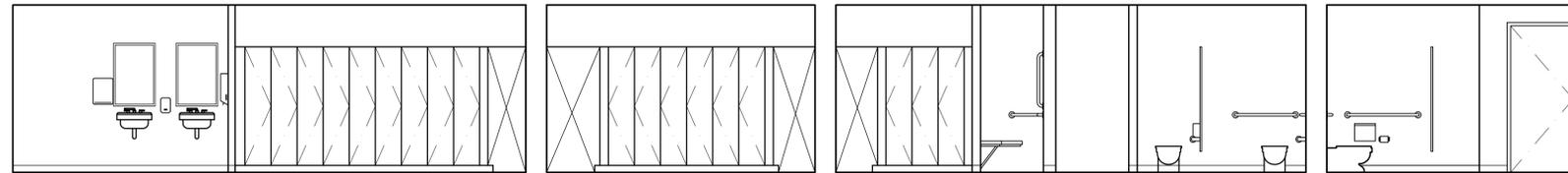
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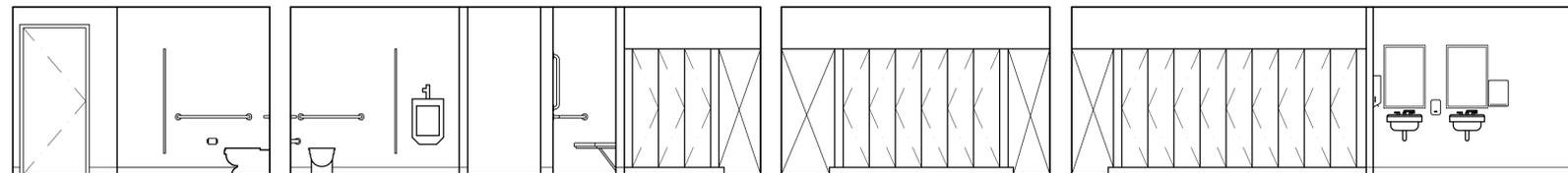
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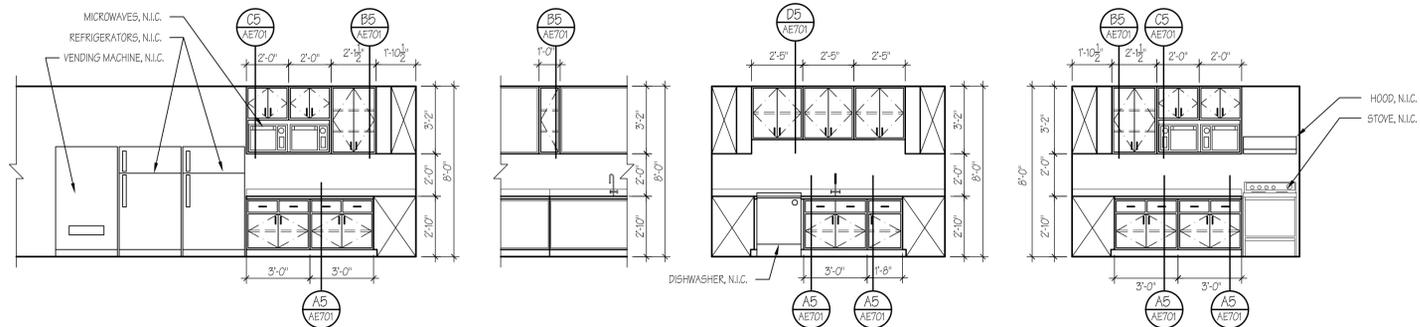
**BUILDING SECTIONS
& WALL SECTIONS**



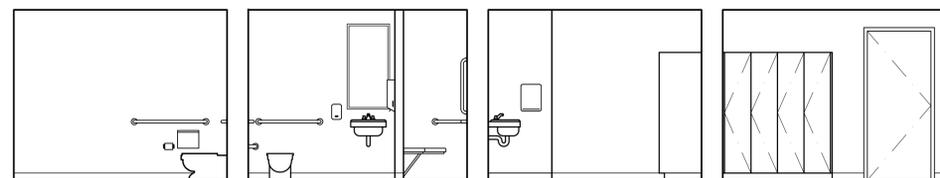
D3 WOMEN'S ROOM INTERIOR ELEVATIONS
SCALE: 1/4"=1'-0"



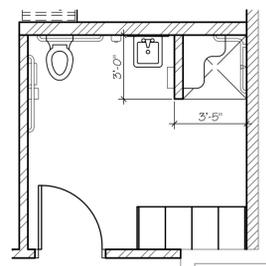
C3 MEN'S ROOM INTERIOR ELEVATIONS
SCALE: 1/4"=1'-0"



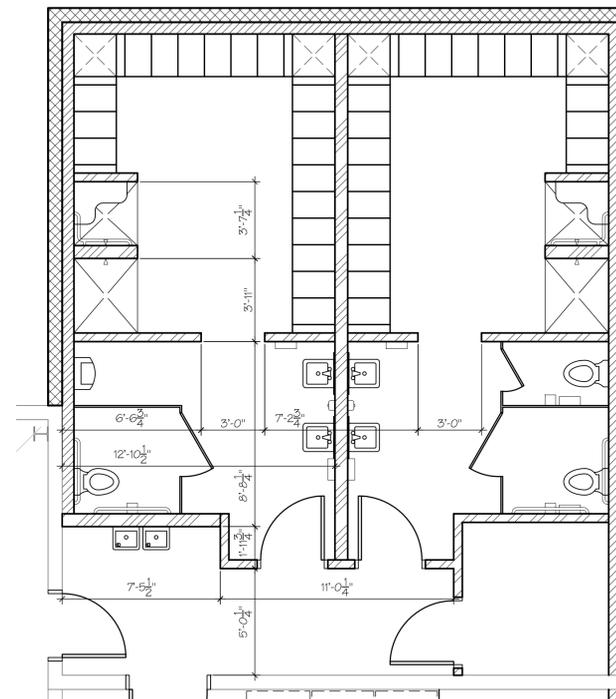
B2 BREAKROOM INTERIOR ELEVATIONS
SCALE: 1/4"=1'-0"



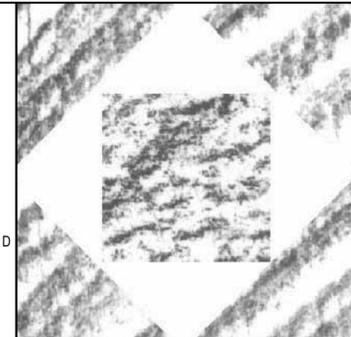
B2 UNISEX RESTROOM INTERIOR ELEVATIONS
SCALE: 1/4"=1'-0"



A3 ENLARGED RESTROOM PLAN
SCALE: 1/4"=1'-0"



A4 ENLARGED RESTROOM PLAN
SCALE: 1/4"=1'-0"



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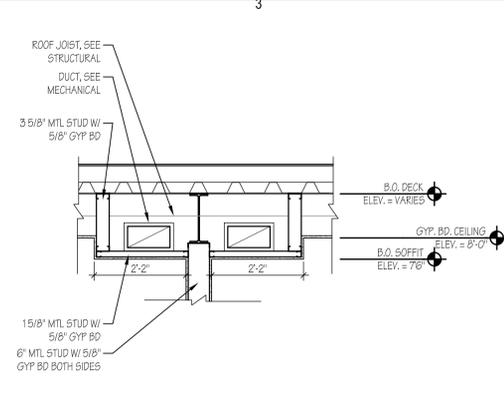
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DATE: 30 AUGUST 2010
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 HFS PROJECT NO: 1022.01
 CAD DWG FILE NO:
 DRAWN BY: RLS
 CHECKED BY: MDP
 DESIGNED BY: RLS
 DWG TYPE: ARCHITECTURAL
 ARCHITECTURAL PHASE:
 CONSTRUCTION DOCUMENTS BID SET
 SHEET TITLE

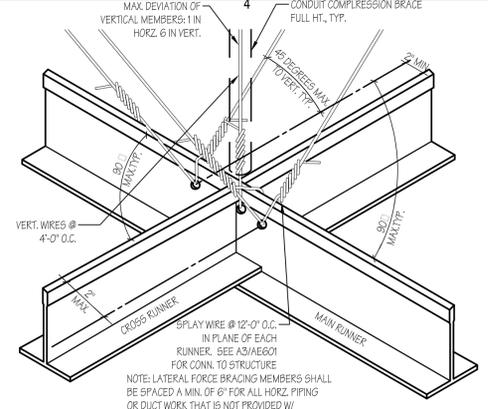
ENLARGED PLANS & INTERIOR ELEVATIONS

AE401

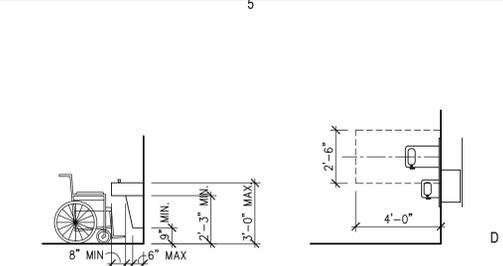
SHEET 13 OF 16



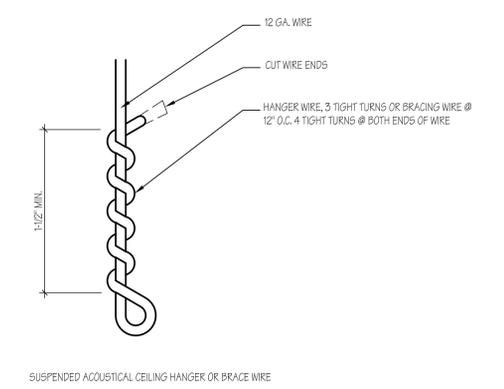
D3 SOFFIT DETAIL
1/2"=1'-0"



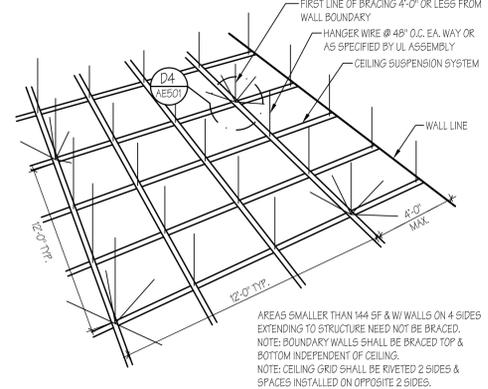
D4 CEILING DETAIL
N.T.S.



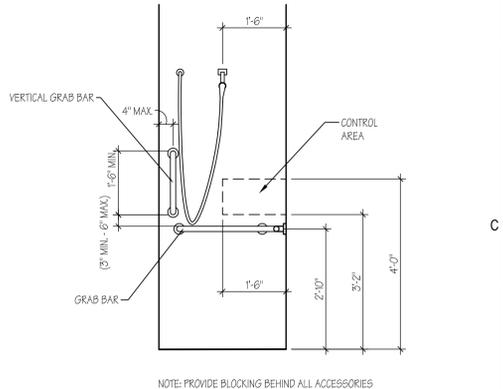
D5 ADA DRINKING FOUNTAIN DETAIL
1/4"=1'-0"



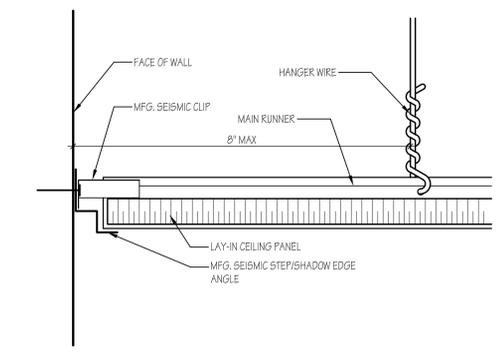
C3 CEILING DETAIL
1"=1"



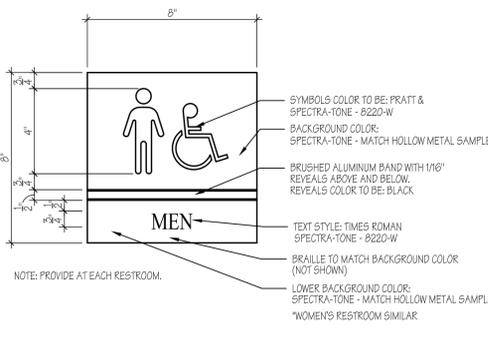
C4 CEILING DETAIL
N.T.S.



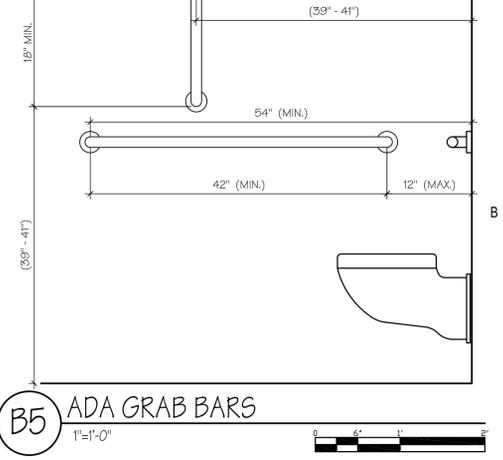
C5 ADA SHOWER DETAIL
1/2"=1'-0"



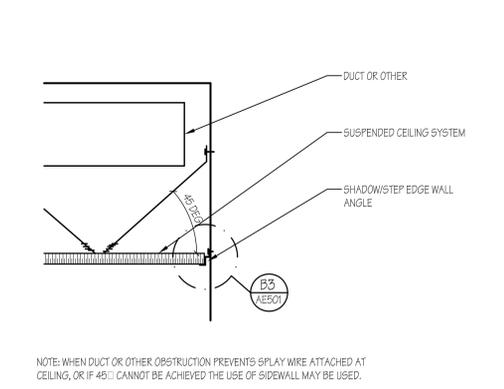
B3 CEILING DETAIL
1"=6"



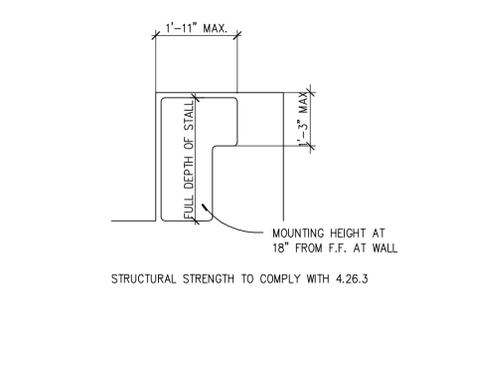
B4 ADA SIGN DETAIL
SCALE: 3/8"=1'-0"



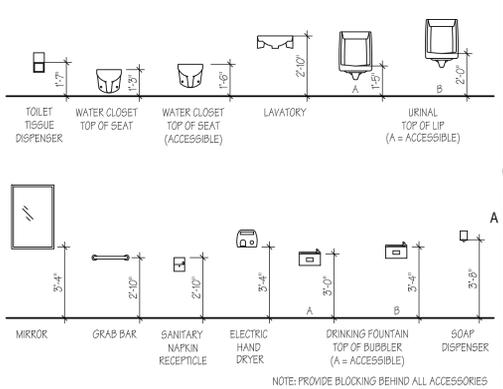
B5 ADA GRAB BARS
1"=1'-0"



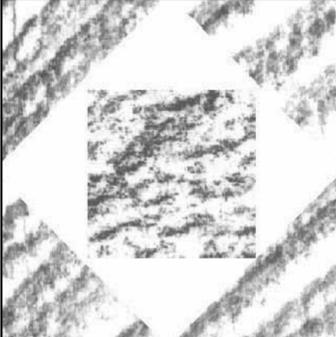
A3 CEILING DETAIL
1"=4"



A4 ADA SHOWER SEAT
1/4"=1'-0"



A5 MOUNTING HEIGHTS
1/4"=1'-0"



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**CAMP WILLIAMS UTES
EAST REMODEL DESIGN**

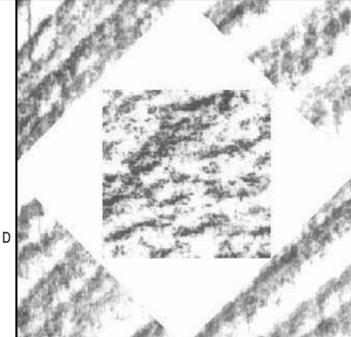
**UTAH NATIONAL GUARD
CAMP WILLIAMS**

MARK	DATE	DESCRIPTION

DATE:	30 AUGUST 2010
AGENCY PROJECT NO:	10207480
HFSA PROJECT NO:	1022.01
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DESIGNED BY:	RLS
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ARCHITECTURAL PHASE:	CONSTRUCTION DOCUMENTS BID SET
SHEET TITLE	

**CEILING &
ADA DETAILS**

AE501
SHEET 14 OF 16



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**CAMP WILLIAMS UTES
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UTAH NATIONAL GUARD
 CAMP WILLIAMS

MARK DATE DESCRIPTION

MARK	DATE	DESCRIPTION

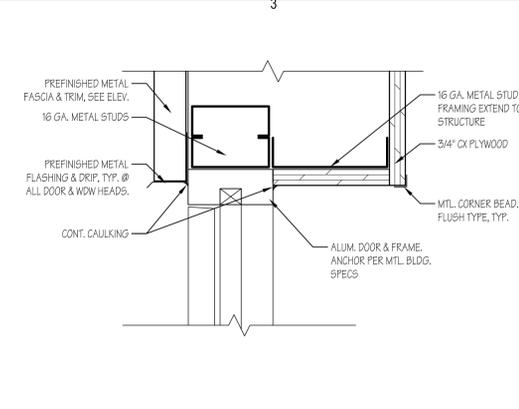
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ARCHITECTURAL PHASE:
 CONSTRUCTION DOCUMENTS BID SET

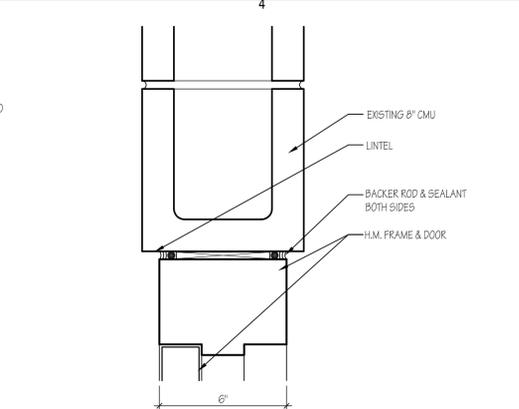
SHEET TITLE

**DOOR SCHEDULE
 & DOOR DETAILS**

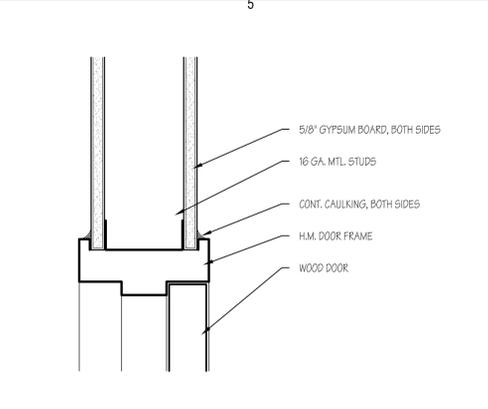
AE601
 SHEET 15 OF 16



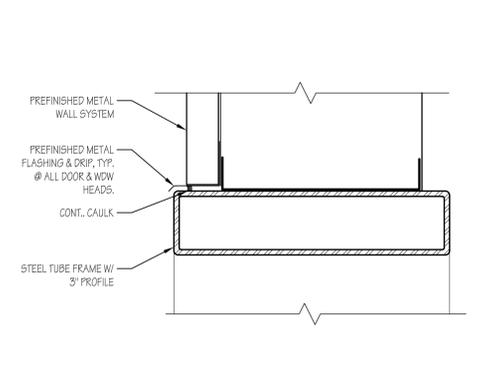
D3 DOOR HEAD (METAL WALL)
 SCALE: 3/8"=1'-0"



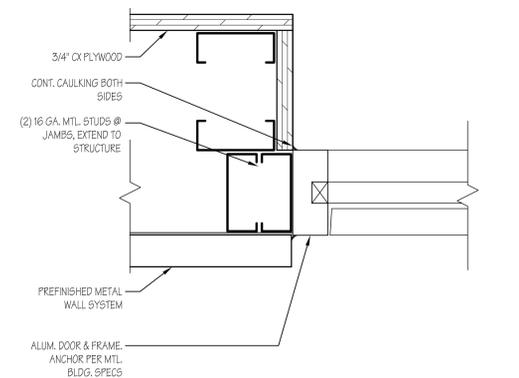
D4 DOOR HEAD (MASONRY WALL)
 SCALE: 3/8"=1'-0"



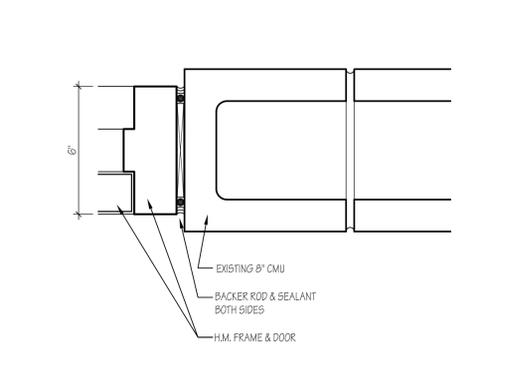
D5 DOOR HEAD (STUD WALL)
 SCALE: 3/8"=1'-0"



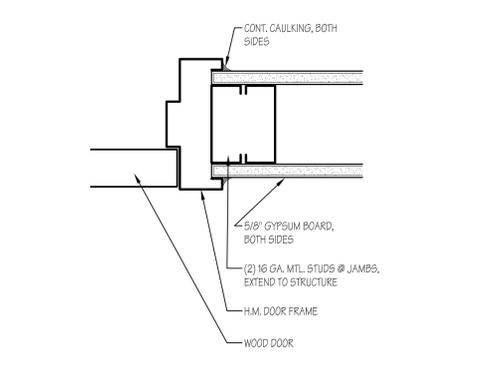
C2 OVERHEAD DOOR HEAD
 SCALE: 3/8"=1'-0"



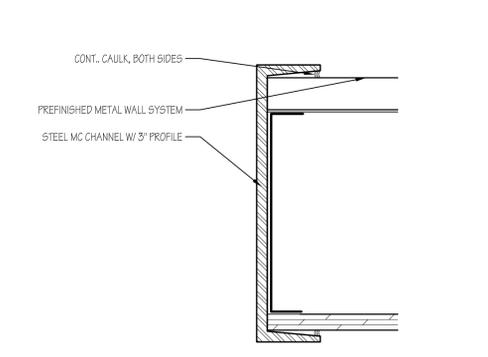
C3 DOOR JAMB (METAL WALL)
 SCALE: 3/8"=1'-0"



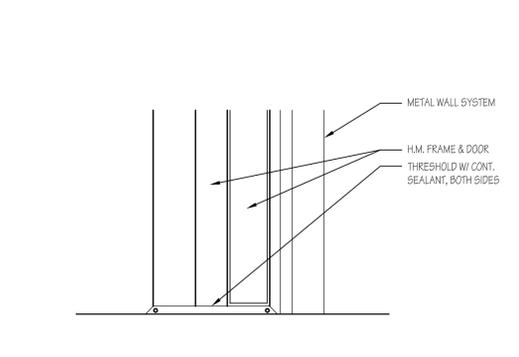
C4 DOOR JAMB (MASONRY WALL)
 SCALE: 3/8"=1'-0"



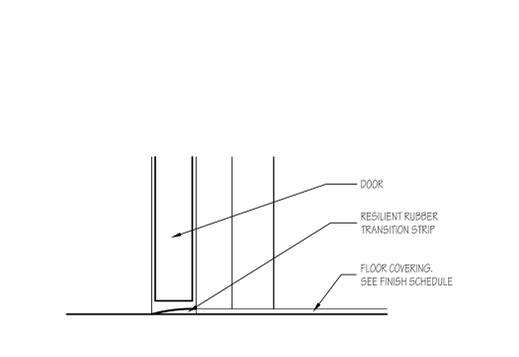
C5 DOOR JAMB (STUD WALL)
 SCALE: 3/8"=1'-0"



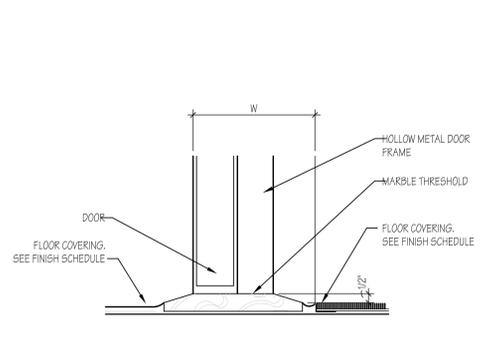
B2 OVERHEAD DOOR JAMB
 SCALE: 3/8"=1'-0"



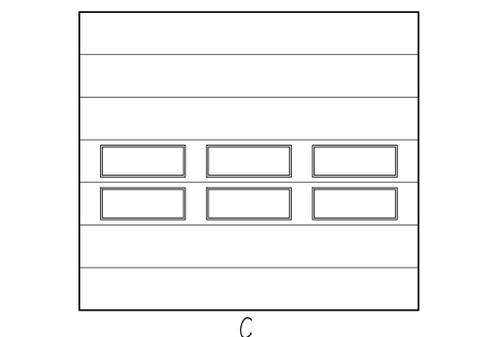
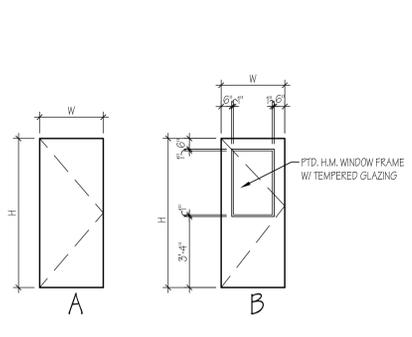
B3 ALUMINUM THRESHOLD
 SCALE: 3/8"=1'-0"



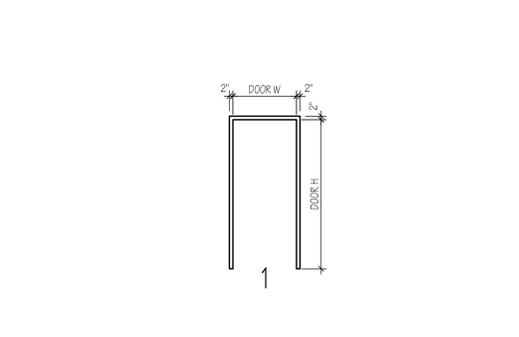
B4 REDUCER STRIP THRESHOLD
 SCALE: 3/8"=1'-0"



B5 MARBLE THRESHOLD DETAIL
 SCALE: 3/8"=1'-0"



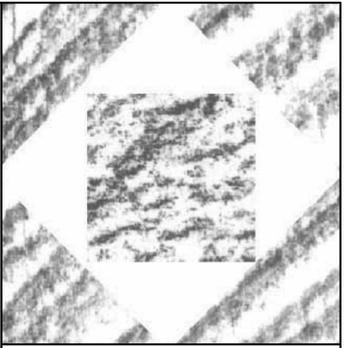
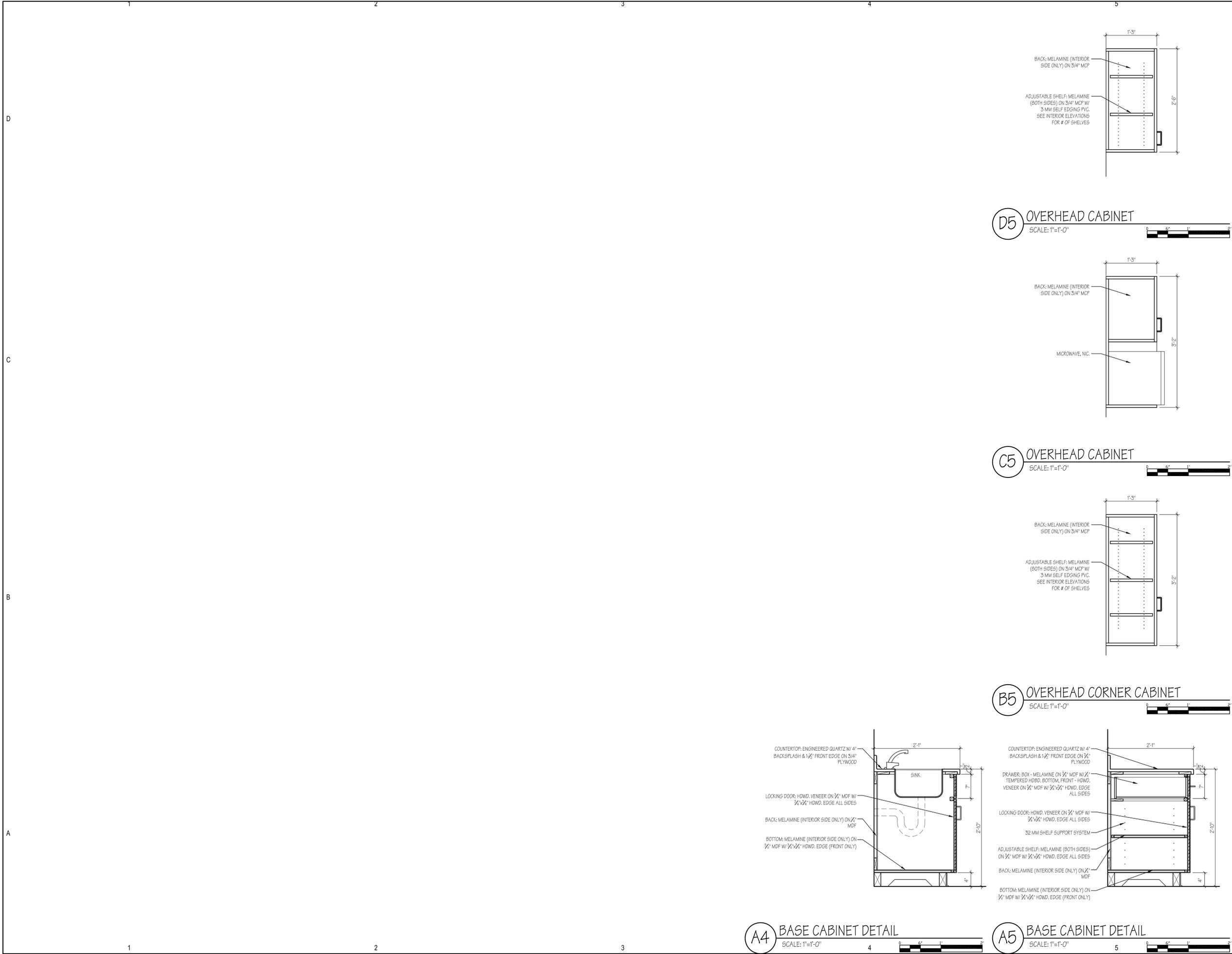
A2 DOOR TYPES
 SCALE: 1/4"=1'-0"



A3 FRAME TYPES
 SCALE: 1/4"=1'-0"

DOOR NUMB.	DOOR SCHEDULE												
	DOOR				FRAME								
	TYPE	MATERIAL	FINISH	DOOR SIZE			TYPE	MATERIAL	FINISH	UL LABEL	DETAILS		
			W	H	T						H	J	T
101	A	H.M.	PAINTED	3'-0"	7'-0"	1-3/4"	1	H.M.	PAINTED	--	D5/AE601	C5/AE601	B5/AE601
102A	A	H.M.	PAINTED	3'-0"	7'-0"	1-3/4"	1	H.M.	PAINTED	--	D5/AE601	C5/AE601	--
102B	A	H.M.	PAINTED	3'-0"	7'-2"	1-3/4"	1	H.M.	PAINTED	--	D5/AE601	C5/AE601	--
103	B	H.M.	PAINTED	3'-0"	7'-2"	1-3/4"	1	H.M.	PAINTED	--	D4/AE601	C4/AE601	B4/AE601
104	A	H.M.	PAINTED	3'-0"	7'-0"	1-3/4"	1	H.M.	PAINTED	--	D5/AE601	C5/AE601	B4/AE601
105	A	H.M.	PAINTED	3'-0"	7'-0"	1-3/4"	1	H.M.	PAINTED	--	D5/AE601	C5/AE601	B5/AE601
106	A	H.M.	PAINTED	3'-0"	7'-0"	1-3/4"	1	H.M.	PAINTED	--	D5/AE601	C5/AE601	B5/AE601
107A	B	INSUL. H.M.	PAINTED	3'-0"	7'-0"	1-3/4"	1	H.M.	PAINTED	--	D3/AE601	C3/AE601	B3/AE601
107B	C	STEEL	PAINTED	18'-0"	14'-0"	--	--	--	--	--	C2/AE601	B2/AE601	--
107C	C	STEEL	PAINTED	18'-0"	14'-0"	--	--	--	--	--	C2/AE601	B2/AE601	--
107D	B	INSUL. H.M.	PAINTED	3'-0"	7'-0"	1-3/4"	1	H.M.	PAINTED	--	D3/AE601	C3/AE601	B3/AE601
107E	C	STEEL	PAINTED	18'-0"	14'-0"	--	--	--	--	--	C2/AE601	B2/AE601	--
107F	C	STEEL	PAINTED	18'-0"	14'-0"	--	--	--	--	--	C2/AE601	B2/AE601	--
107G	B	INSUL. H.M.	PAINTED	3'-0"	7'-0"	1-3/4"	1	H.M.	PAINTED	--	D3/AE601	C3/AE601	B3/AE601

A4 DOOR SCHEDULE
 N.T.S.



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EAST REMODEL DESIGN

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SHEET TITLE	

CASEWORK DETAILS

AE701
SHEET 16 OF 16

GENERAL NOTES FOR STRUCTURAL SHEETS (CONT.)

STATEMENT OF SPECIAL INSPECTIONS

- The inspection requirements as noted on this sheet are required for the items that are specifically noted, designed and detailed in the structural documents. Refer to the current IBC, Chapter 17, the architectural drawings, and the geotechnical report for additional information and additional inspection requirements for non-structural items.
- The project owner shall employ one or more special inspectors to provide inspections during construction on the types of work listed below. The special inspector shall be a qualified person who shall demonstrate competence, to the satisfaction of the building official and/or EOR, for inspection of the particular type of construction or operation requiring special inspection. These inspections are in addition to the inspections required by the building department of the local jurisdiction.
- Special inspectors shall keep records of inspections. The special inspector shall furnish inspection reports to the building official and to the EOR in responsible charge. Reports shall indicate that work inspected was done in conformance with approved construction documents. Discrepancies shall be brought to the immediate attention of the contractor for correction. If the discrepancies are not corrected, the discrepancies shall be brought to the attention of the building official and to the EOR in responsible charge prior to the completion of that phase of the work. A final report documenting required special inspections and correction of any discrepancies noted in the inspections shall be submitted at a point in time agreed upon by the permit applicant and the building official prior to the start of work.
- Special inspections for each task shall be carried out in compliance with requirements per the current IBC and other material standards.
- FABRICATION SHOP REQUIREMENTS**
 - Where fabrication of structural load bearing members and assemblies are being performed on the premises of a fabricators shop, special inspections required shall be provided in the shop during the fabrication process. This requirement may be exempted if the work is done on the premises of a fabricator registered and approved to perform such work without special inspection. A certificate shall be required to verify such approval. At completion of the fabrication, the approved fabricator shall submit a certificate of compliance to the building official stating that the work was performed in accordance with the approved construction drawings
- TESTING:** The owner will provide testing by qualified testing personnel for the following types of construction:
 - Bolting: installation and correct torque and/or tension.
 - Concrete: strength, slump, air, and temperature. (see Concrete Notes 3(E) on GSN for concrete items that require testing)
 - Masonry: strength of mortar, grout, block, and prisms.
 - Soils: compaction.
 - Welding: type, size, length, and quality of shop and all field welds by approved methods. Ultrasonically test complete penetration welds. Drill and epoxy anchors: load test 10% of anchors, with a minimum of (2) anchors tested
- THE CONTRACTOR SHALL:**
 - Coordinate testing. DO NOT proceed with subsequent work until inspections and testing has been approved.
 - Copy inspection reports/testing results to the Arch/EOR and owner before work proceeds.
 - Correct deficient work at no additional cost to the owner.

STRUCTURAL OBSERVATIONS

- WCA Structural Engineering, Inc. shall be notified by the contractor 5 business days before the completion of the items listed in this section so that structural observations may be performed in accordance with IBC Section 1709. The observations will be performed at the discretion of WCA Structural Engineering, Inc.
 - Structural observations by WCA Structural Engineering, Inc. are not required for this project.

SPECIAL INSPECTION AND TESTING (IBC 1704)

Indicate required Special inspections for project by checking the appropriate boxes:

FABRICATORS (IBC1704.2)

<input type="checkbox"/> Approved Fabricator	Fabricators Name:
<input type="checkbox"/> Unapproved Fabricator	Fabricators Name:
In-plant inspections	
<input type="checkbox"/> Steel Construction	<input type="checkbox"/> Welding
<input type="checkbox"/> Details	

STEEL (IBC1704.3)

Item	Continuous	Periodic	Reference/Comments
High Strength Bolting(1704.3.3)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
WELDING (1704.3.1)			
Details (1704.3.2)			
Complete & partial penetration groove welds	<input type="checkbox"/>	<input type="checkbox"/>	
Multipass fillet welds	<input type="checkbox"/>	<input type="checkbox"/>	
Single-pass fillet welds > 5/16"	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Single-pass fillet welds ≤ 5/16"	<input type="checkbox"/>	<input type="checkbox"/>	
Floor & roof deck welds	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
REINFORCEMENT STEEL	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Verification of weldability	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Shear wall and shear reinforcement	<input type="checkbox"/>	<input type="checkbox"/>	
Other reinforcement	<input type="checkbox"/>	<input type="checkbox"/>	
Steel frame joint details	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

CONCRETE CONSTRUCTION (IBC1704.4)

Item	Continuous	Periodic	Reference/Comments
Materials (1704.4.1)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Steel placement	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Steel welding	<input type="checkbox"/>	<input type="checkbox"/>	
Bolts prior & during placement	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Use of required design mix	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Concrete sampling for strength test, slump, air content, and temperature of concrete	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Concrete & shotcrete placement	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Curing temperature and techniques	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Pre-stressed concrete	<input type="checkbox"/>	<input type="checkbox"/>	
Pre-cast concrete	<input type="checkbox"/>	<input type="checkbox"/>	
Posttensioned concrete	<input type="checkbox"/>	<input type="checkbox"/>	
Form work	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

MASONRY CONSTRUCTION (IBC1704.5)

Item	Reference/Comments
As masonry construction begins:	

Page 1 of 4

Item	Continuous	Periodic	Reference/Comments
Site prepared mortar	<input type="checkbox"/>	<input type="checkbox"/>	
Construction of mortar joints	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Location of reinforcement, connectors, pre-stressing tendons and anchorages	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Pre-stressing technique	<input type="checkbox"/>	<input type="checkbox"/>	
Grade and size of pre-stressing tendons and anchorages	<input type="checkbox"/>	<input type="checkbox"/>	
Inspection program verify:			
Size and location of structural elements	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Type, size and location of anchors	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Size, grade and type of reinforcement	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Welding of reinforcement	<input type="checkbox"/>	<input type="checkbox"/>	
Cold and hot weather protection	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Application and measurement of pre-stressing force	<input type="checkbox"/>	<input type="checkbox"/>	
Prior to grouting verify			
Clean grout space	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Placement of reinforcement	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Grout mix	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Mortar joints	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Grout placement	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Grout and mortar specimens and prisms	<input type="checkbox"/>	<input type="checkbox"/>	
Construction and submittal compliance verification	<input type="checkbox"/>	<input type="checkbox"/>	
Empirical masonry – Cat. I-III (1708.1.1)	<input type="checkbox"/>	<input type="checkbox"/>	
Empirical masonry – Cat. IV (1708.1.1)	<input type="checkbox"/>	<input type="checkbox"/>	
Engineered masonry – Cat. I-III (1708.1.1)	<input type="checkbox"/>	<input type="checkbox"/>	
Engineered masonry – Cat. IV (1708.1.1)	<input type="checkbox"/>	<input type="checkbox"/>	
Engineering & pre-stressing steel (1708.3)	<input type="checkbox"/>	<input type="checkbox"/>	
Structural steel (1708.4)	<input type="checkbox"/>	<input type="checkbox"/>	
Qualification of mechanical & electrical equipment (1708.5)	<input type="checkbox"/>	<input type="checkbox"/>	
Seismically isolated structures (1708.6)	<input type="checkbox"/>	<input type="checkbox"/>	
Testing for seismic resistance is	<input type="checkbox"/>	<input type="checkbox"/>	

WOOD CONSTRUCTION (IBC1704.6)

Item	Continuous	Periodic	Reference/Comments
Prefabricated elements & assembly	<input type="checkbox"/>	<input type="checkbox"/>	

SOILS CONSTRUCTION (IBC1704.7)

Item	Continuous	Periodic	Reference/Comments
Site preparation	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Page 2 of 4

Item	Continuous	Periodic	Reference/Comments
Structural fill material	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Structural fill lift thickness	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Structural fill soil densities	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Backfill soils materials	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Backfill soil densities	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Fill material under side walks and parking	<input type="checkbox"/>	<input type="checkbox"/>	
Fill soil densities under side walks and parking	<input type="checkbox"/>	<input type="checkbox"/>	

PILE FOUNDATIONS (IBC1704.8)

Item	Continuous	Periodic	Reference/Comments
Observe driving operation and reporting	<input type="checkbox"/>	<input type="checkbox"/>	
Verify placement & installation data	<input type="checkbox"/>	<input type="checkbox"/>	

PIER FOUNDATIONS (IBC1704.9)

Item	Continuous	Periodic	Reference/Comments
Observe drilling operation and reporting	<input type="checkbox"/>	<input type="checkbox"/>	
Verify placement & installation data	<input type="checkbox"/>	<input type="checkbox"/>	

SPRAYED FIRE-RESISTANT MATERIALS (IBC1704.10)

Item	Continuous	Periodic	Reference/Comments
Structural member surface conditions	<input type="checkbox"/>	<input type="checkbox"/>	
Material application	<input type="checkbox"/>	<input type="checkbox"/>	
Material thickness	<input type="checkbox"/>	<input type="checkbox"/>	
Material density	<input type="checkbox"/>	<input type="checkbox"/>	
Bonding strength	<input type="checkbox"/>	<input type="checkbox"/>	

MASTIC AND INTUMESCENT FIRE-RESISTANT COATINGS (IBC1704.11)

Item	Continuous	Periodic	Reference/Comments
Material and installation	<input type="checkbox"/>	<input type="checkbox"/>	

EXTERIOR INSTULATION AND FINISH SYSTEMS (EIFS) (IBC1704.12)

Item	Continuous	Periodic	Reference/Comments
Material and installation	<input type="checkbox"/>	<input type="checkbox"/>	

ALTERNATIVE CONSTRUCTION METHODS OR MATERIALS (IBC1704.13)

Item	Continuous	Periodic	Reference/Comments
Material and installation	<input type="checkbox"/>	<input type="checkbox"/>	

EPOXY (IBC1704.13)

Item	Continuous	Periodic	Reference/Comments
Material and installation	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

SMOKE CONTROL (IBC1704.14)

Item	Continuous	Periodic	Reference/Comments
Material	<input type="checkbox"/>	<input type="checkbox"/>	

Page 3 of 4

Item	Continuous	Periodic	Reference/Comments
Instillation	<input type="checkbox"/>	<input type="checkbox"/>	

Special inspection for seismic resistance (IBC1707)

Item	Continuous	Periodic	Reference/Comments
Structural Steel (1707.2)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Structural Wood (1707.3)	<input type="checkbox"/>	<input type="checkbox"/>	
Cold-formed steel framing (1707.4)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Pier foundations (1707.5)	<input type="checkbox"/>	<input type="checkbox"/>	
Storage racks & access floors (1707.6)	<input type="checkbox"/>	<input type="checkbox"/>	
Architectural components (1707.7)	<input type="checkbox"/>	<input type="checkbox"/>	
Mechanical & electrical items (1707.8)	<input type="checkbox"/>	<input type="checkbox"/>	
Designated systems verification (1707.9)	<input type="checkbox"/>	<input type="checkbox"/>	
Seismic isolation systems (1707.10)	<input type="checkbox"/>	<input type="checkbox"/>	
Inspection of seismic resistance are not required per IBC 1705.3	<input type="checkbox"/>		

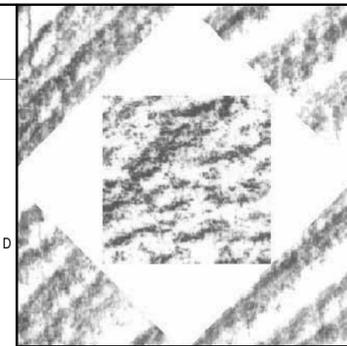
OTHER

Item	Continuous	Periodic	Reference/Comments
	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	

Special Inspectors Shall:

- Be approved by the Building Official prior to performing any duties;
- Provide proof of licensure as a special inspector by the State of Utah for each type of inspection;
- Inspection reports are to meet the requirements of IBC 1704.1.2 and DFCM standards;
- Inspection reports are to be submitted to the code consultant, architect, DFCM project manager, and the State of Utah Building Official within 48 hrs. of inspections;
- A final inspection report shall be submitted following completion of the project documenting the types of special inspections performed and a statement indicating that the structure is in compliance with the drawings, specifications and applicable codes. IBC 1704.1.2

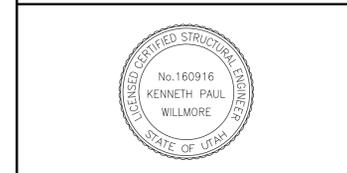
Page 4 of 4



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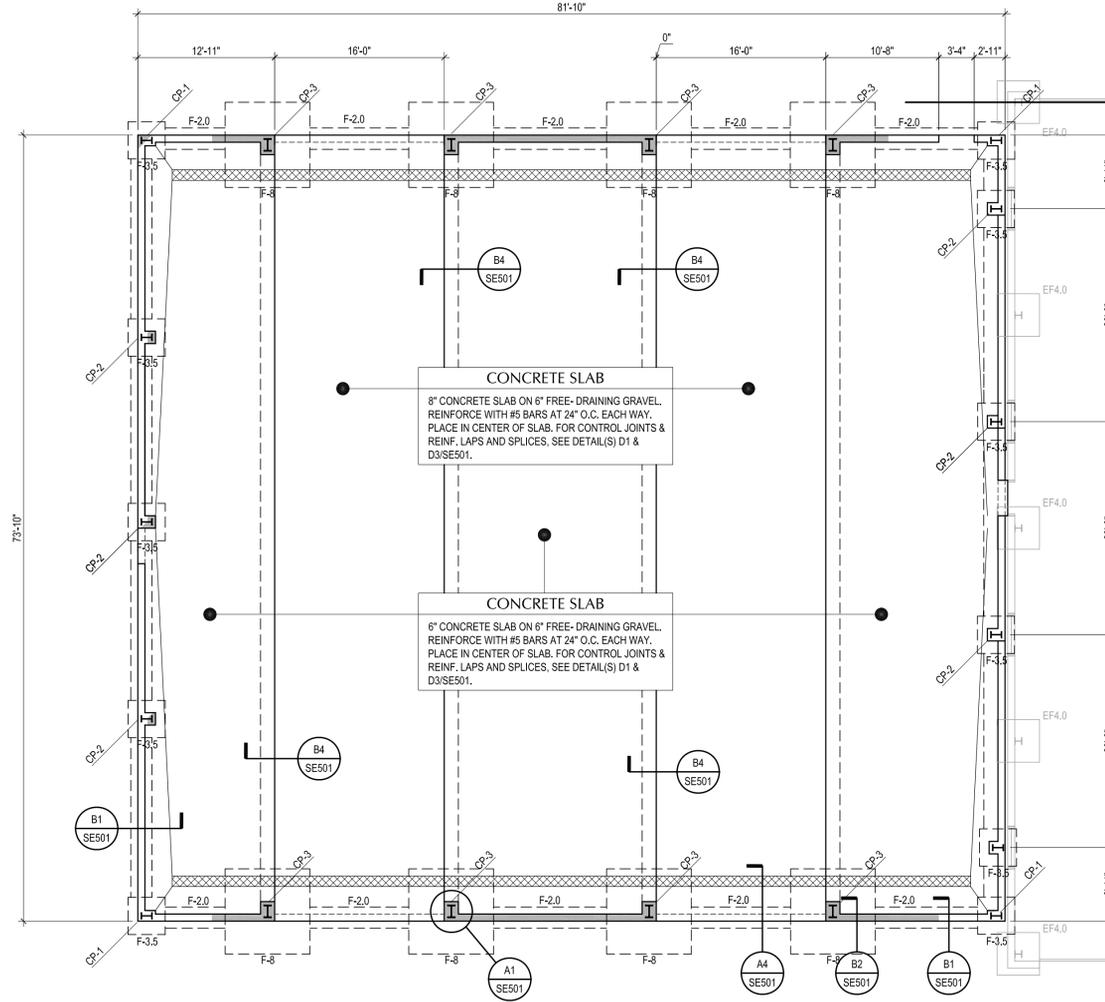
**CAMP WILLIAMS UTES
 EAST REMODEL DESIGN**
 UTAH NATIONAL GUARD
 CAMP WILLIAMS

MARK	DATE	DESCRIPTION

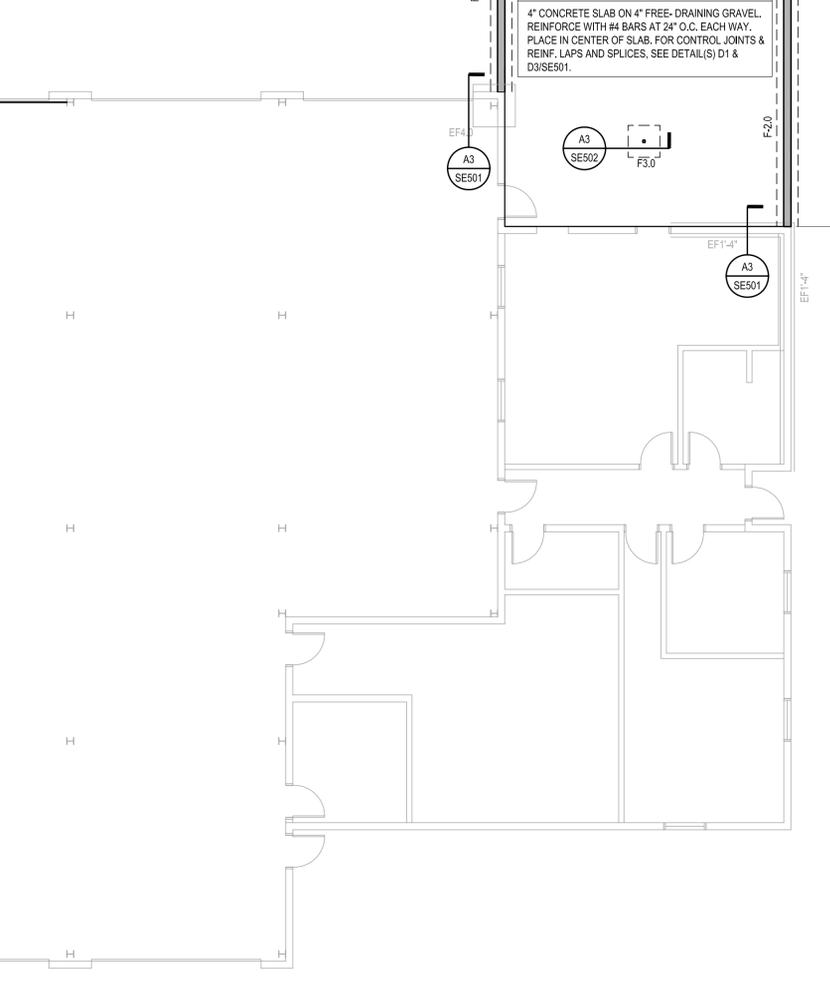
DATE:	30 AUGUST 2010
AGENCY PROJECT NO:	10207480
WCA PROJECT NO:	10119
CAD DWG FILE NO:	
DRAWN BY:	WCA
CHECKED BY:	KPW
DESIGNED BY:	KPW
DWG TYPE:	ARCHITECTURAL
ARCHITECTURAL PHASE:	CONSTRUCTION DOCUMENTS

SHEET TITLE
**STRUCTURAL GENERAL
 NOTES (GSN)**

GE101
 SHEET OF ?



NEW METAL BUILDING - FOUNDATION PLAN SCALE: 1/8" = 1'-0"



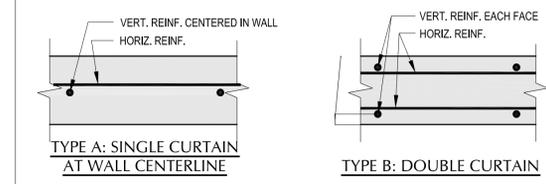
EXISTING BUILDING W/ ADDITION SCALE: 1/8" = 1'-0"

MARK	SIZE			BOTTOM REINFORCING	TOP REINFORCING	NOTES
	WIDTH	LENGTH	THICK			
F-2.0	2'-0"	CONT.	12"	(2) #5 CONTINUOUS	NONE	
F-3.0	3'-0"	3'-0"	12"	(3) #4 E.W.		
F-3.5	3'-6"	3'-6"	12"	(4) #4 E.W.		
F-4.5	3'-0"	4'-6"	12"	(5) #4 E.W.		
F-8.0	8'-0"	8'-0"	18"	(8) #6 E.W.	(2) #6 E.W.	

- C.W. = CROSSWISE E.W. = EACH WAY L.W. = LENGTHWISE
- ALL FOOTINGS ARE MARK F-1, U.N.O.
 - BEAR FOOTINGS ON PROPERLY PREPARED MATERIAL.
 - BEAR EXTERIOR FOOTINGS BELOW THE EFFECTS OF FROST.
 - CENTER FOOTINGS BELOW THE WALL AND/OR COLUMN ABOVE. TYPICAL U.N.O.
 - PROVIDE 2x4 BEVELED KEYWAYS IN CONTINUOUS WALL FOOTINGS. U.N.O.
 - PROVIDE 3" CLEAR CONCRETE COVER AT BOTTOM REINF. U.N.O.
 - PROVIDE DOWELS WITH STANDARD HOOK FROM FOOTINGS TO ANY REINFORCED ELEMENT ABOVE. DOWEL SIZE TO MATCH VERTICAL REINFORCING IN ELEMENT ABOVE. U.N.O.
 - ANY INCREASE IN THE SIZE OF FOOTINGS FOR CONSTRUCTION CONVENIENCE, MAY REQUIRE ADDITIONAL REINFORCING. COORDINATE WITH THE EOR.
 - S - S DENOTES AN ELEVATION STEP IN FOOTING. SEE DETAIL D4/SE501
 - ALL FOOTINGS TO BEAR ON ENGINEERED FILL. SEE SOILS REPORT.

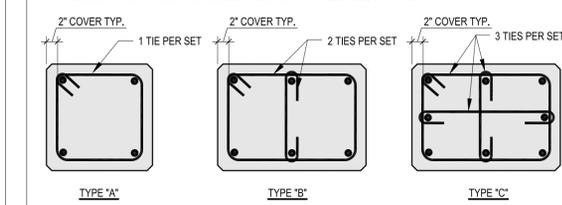
MARK	THICKNESS	REINFORCING		NOTES
		VERTICAL REINF.	HORIZONTAL REINF.	
CW-1	8"	#4 @ 18" O.C.	#4 @ 12" O.C.	(2) #5 TOP & BOTTOM, TYPE 'A'

- ALL WALLS ARE MARK CW-1, U.N.O.
- CONTRACTOR TO VERIFY ALL WALL THICKNESS W/ ARCHITECT.
- PROVIDE CORNER BARS AT ALL CORNERS AND INTERSECTING WALLS. SEE DETAIL D2/SE501.
- WHEN A SINGLE CURTAIN OF REINFORCING IS SPECIFIED, PLACE THE VERTICAL REINFORCING IN THE CENTER OF THE WALL, TYPICAL, U.N.O.
- WHEN A DOUBLE CURTAIN OF REINFORCING IS SPECIFIED, PLACE EACH CURTAIN OF STEEL AT THE FACE OF THE WALL WITH MINIMUM COVER AS SPECIFIED IN THE GENERAL NOTES. PLACE THE VERTICAL REINFORCING CLOSEST TO THE FORMS, TYPICAL, U.N.O.
- PROVIDE DOWELS WITH STANDARD HOOKS TO THE STRUCTURE BELOW WITH SIZE AND SPACING TO ATTACH THE VERTICAL REINFORCING IN THE WALL ABOVE.
- SPLICE VERTICAL REINFORCING AT FLOOR LEVELS ONLY, TYPICAL, U.N.O.
- SPLICES IN HORIZONTAL REINFORCING IN ONE CURTAIN SHALL BE STAGGERED FROM SPLICES IN THE OPPOSITE CURTAIN A MINIMUM OF FOUR FEET.



MARK	WIDTH	LENGTH	VERTICAL REINF.	TIE SETS		NOTES
				#	@	
CP-1	12"	20"	(8) #5	#3 @ 6" O.C. W/ (3) @ 2" O.C. TOP		SEE B2/SE501
CP-2	14"	20"	(8) #5	#3 @ 6" O.C. W/ (3) @ 2" O.C. TOP		SEE B2/SE501
CP-3	16"	20"	(8) #5	#3 @ 6" O.C. W/ (3) @ 2" O.C. TOP		SEE B2/SE501

- VERTICAL BARS SHALL TERMINATE IN A STANDARD 90 DEGREE HOOK UNLESS APPROVED OTHERWISE BY THE STRUCTURAL ENGINEER.
- VERTICAL REINFORCING SHALL SPLICE AT FLOOR LEVELS ONLY, TYP., U.N.O.
- WHEN USED, THE MAXIMUM OFFSET FOR INCLINED BARS SHALL BE 3 INCHES. THE MAXIMUM SLOPE FOR INCLINED BARS SHALL BE 1:6.
- PROVIDE DOWELS WITH STANDARD HOOKS TO THE STRUCTURE BELOW TO MATCH THE VERTICAL REINFORCING IN THE COLUMN ABOVE, TYP., U.N.O.
- PROVIDE A MINIMUM OF TWO SETS OF TIES IN THE TOP FIVE INCHES OF EVERY COLUMN, TYP., U.N.O. PROVIDE TIE SETS AT ONE-HALF THE SPACING SHOWN IN THE SCHEDULE FOR A MINIMUM OF 1/8 THE CLEAR SPAN, THE MAXIMUM CROSS SECTIONAL DIMENSION OF THE COLUMN, OR 18 INCHES, TOP AND BOTTOM, TYP., U.N.O.
- COLD JOINTS SHALL OCCUR AT FLOOR LEVELS ONLY, TYP., U.N.O.
- PROVIDE CHAMFERS AT ALL CORNERS OF ALL COLUMNS, TYP., U.N.O.
- PENETRATIONS THROUGH CONCRETE COLUMNS IS NOT ALLOWED, TYP., U.N.O.



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**CAMP WILLIAMS UTES
EAST REMODEL DESIGN**

UTAH NATIONAL GUARD
CAMP WILLIAMS

MARK	DATE	DESCRIPTION

DATE: 30 AUGUST 2010

AGENCY PROJECT NO: 10207480

WCA PROJECT NO: 10119

CAD DWG FILE NO:

DRAWN BY: WCA

CHECKED BY: KPW

DESIGNED BY: KPW

DWG TYPE: ARCHITECTURAL

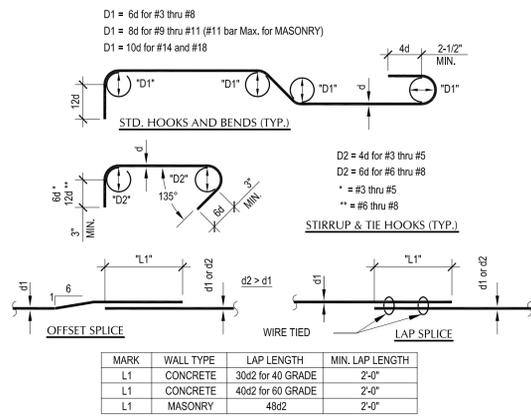
ARCHITECTURAL PHASE:
CONSTRUCTION DOCUMENTS

SHEET TITLE

FOUNDATION PLAN

SE101

SHEET OF ?



MARK	WALL TYPE	LAP LENGTH	MIN. LAP LENGTH
L1	CONCRETE	30d2 for 40 GRADE	2'-0"
L1	CONCRETE	40d2 for 60 GRADE	2'-0"
L1	MASONRY	48d2	2'-0"

D1 TYPICAL HOOKS & BENDS

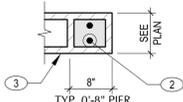
NO SCALE

KEYNOTES:

- CLOSED TIES AS SHOWN, SEE SCHEDULE
- VERTICAL BARS WITH MATCHING DOWELS INTO FOOTINGS/FOUNDATION, SEE SCHEDULE
- CMU PIER, SEE PLAN

NOTES:

- PROVIDE OPENED END UNITS TYPICAL AT ALL PIERS



D1 CMU PIER - 8"

NO SCALE

KEYNOTES:

- CONCRETE WALL, SEE PLAN
- (2) #5 x CONT. TOP AND BOTTOM
- CONCRETE SLAB ON GRADE, SEE PLAN
- #4 by 30" DRILL AND EPOXY DOWELS @ 24" O.C., PROVIDE 6" MIN. EMBEDMENT (CONTRACTOR OPTION TO USE J-BARS, CONTACT EOR FOR SIZE)
- FOOTING, SEE PLAN AND SCHEDULE FOR SIZE AND REINF.
- STRUCTURAL FILL, SEE SOILS REPORT
- METAL BUILDING CURTAIN WALL

B1 WALL - SLAB ON GRADE DETAIL

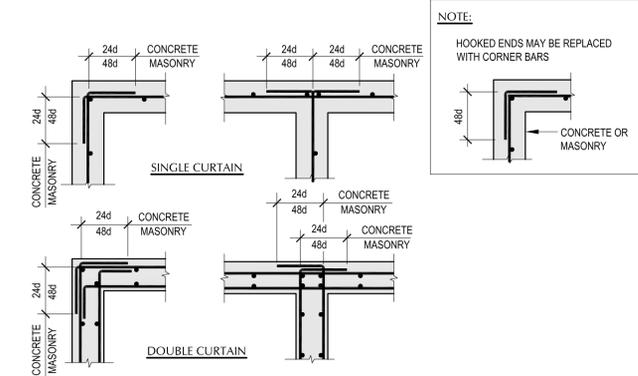
NO SCALE

KEYNOTES:

- CONCRETE PIER, SEE PLAN AND SCHEDULE
- ANCHOR BOLTS, PER BLDG. MANUF.
- PIER REINF., SEE SCHEDULE
- CONC. WALL, SEE PLAN

A1 PIER REINFORCEMENT

NO SCALE



D2 CONCRETE OR MASONRY WALL CORNER REINF.

NO SCALE

C2 MASONRY WALL CORNERS (TYP) - PLAN VIEW

NO SCALE

KEYNOTES:

- STEEL COLUMN, SEE BUILDING MANUF.
- BASE PLATE
- ANCHOR BOLTS, PER BLDG. MANUF. W/ 3/8x3/32" PLATE WASHER W/ NUTS TIGHT AGAINST PLATE
- HAIRPIN AROUND ANCHOR BOLTS, SEE DETAIL 11/S401 & 12/S401
- CONCRETE SLAB ON GRADE, SEE PLAN
- CONCRETE PIER, SEE PLAN AND SCHEDULE
- FOUNDATION WALL BEYOND, SEE PLAN
- (2) #5 x CONT. TOP AND BOTTOM
- FOUNDATION WALL STEEL RUNS THRU PIERS
- FOOTING, SEE PLAN AND SCHEDULE FOR SIZE AND REINF.
- STRUCTURAL FILL, SEE SOILS REPORT

B2 METAL BUILDING FRAME TO FOUNDATION

NO SCALE

KEYNOTES:

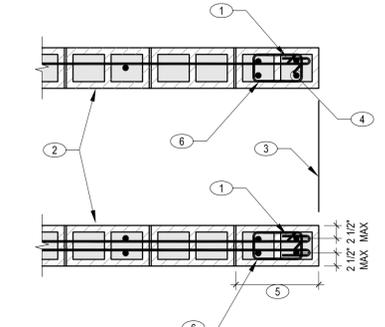
- CONCRETE WALL, SEE PLAN
- BASE PLATE, SEE BUILDING MANUFACTURE

A2 END WALL COLUMN TO FOUNDATION

NO SCALE

D3 SLAB ON GRADE JOINT

NO SCALE



C3 VERTICAL MASONRY WALL JAMBS (TYP) - PLAN VIEW

NO SCALE

KEYNOTES:

- CONCRETE PIER, SEE SCHEDULE
- BASE PLATE
- #6 HAIRPIN AROUND ANCHOR BOLTS
- CONC. WALL, SEE PLAN
- CONT. TENSION BARS BETWEEN BENTS, SEE DETAIL 12/S401, CENTERED IN FOOTING

B3 PIER TIE - U BARS

NO SCALE

KEYNOTES:

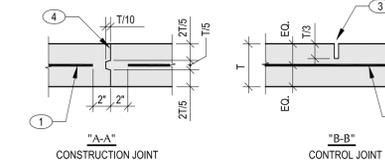
- EXISTING WALL
- NEW #5 x 24" HORIZ DOWELS, TO MATCH NEW FOUNDATION AND STEM WALL STEEL, DRILL & EPOXY 6" MIN. INTO EXISTING FOOTING OR FOUNDATION
- NEW FOOTING, SEE PLAN
- EXISTING FOUNDATION
- NEW CONCRETE WALL, SEE PLAN

A3 DETAIL

NO SCALE

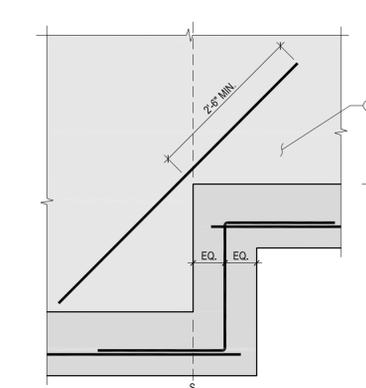
KEYNOTES:

- SLAB REINFORCING
- MAX. WIDTH OF POUR = 20'-0"
- 1/8" FIBERBOARD STRIP, ZIP STRIP, OR SAW CUT. SEE SPECIFICATIONS. AT EXPOSED SLOT WITH SLAB, USE 1/4" JOINT SEALER.
- FOR SLABS LEFT EXPOSED, PROVIDE 1/4" WIDE SLOT FILLED WITH JOINT SEALER.
- MAX. LENGTH OF POUR WITHOUT CONTROL JOINT = 10'-0". COORDINATE JOINT LOCATIONS WITH ARCHITECTS REQUIREMENTS



D4 TYP. FOOTING STEP

NO SCALE



C4 VERTICAL MASONRY WALL CONTROL JOINT - PLAN VIEW

NO SCALE

KEYNOTES:

- CONCRETE SLAB ON GRADE, SEE PLAN
- (2) #6 CONT. BETWEEN BENTS (MIN. LAP 48"), CENTERED IN FOOTING
- SLAB REINFORCING
- TYP. GRID LINE AT BENT FRAMES
- FOOTING, SEE PLAN AND SCHEDULE FOR SIZE AND REINF.
- STRUCTURAL FILL, SEE SOILS REPORT

B4 TENSION TIE

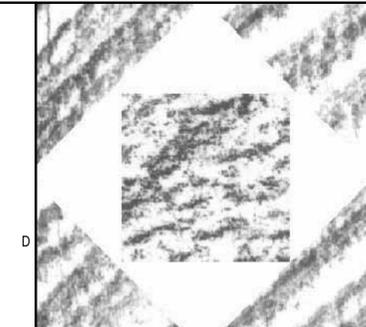
NO SCALE

KEYNOTES:

- EXTERIOR SLAB, SEE ARCH
- (2) #5 CONT. BOTTOM
- #4 DOWELS @ 24" O.C. 2'-0"
- CONCRETE SLAB ON GRADE, SEE PLAN
- CONCRETE FOUNDATION WALL, SEE PLAN
- (2) #5 EXTEND 2'-0" PAST EDGE OF OPENING, EACH SIDE
- FOOTING, SEE PLAN AND SCHEDULE FOR SIZE AND REINF.
- #4x4'-0" LONG DOWELS @ 24" O.C. IF EXTERIOR SLAB IS CONC. OTHERWISE OMIT.
- (2) GALVANIZED 1-3/4x1-1/4x5/16" x CONT. WITH 1/2"x3" WELDED STUD ANCHORS @ 18" O.C.
- #4 x CONT. @ 8" O.C.
- #4 DOWELS @ 12" O.C.
- 1-1/2x3/8" BARS @ 2" O.C. @ DRIVE LANE.
- 1-1/2x1/4" BARS @ 2" O.C. @ 6" SLAB AREAS

A4 DETAIL

NO SCALE



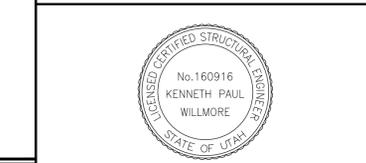
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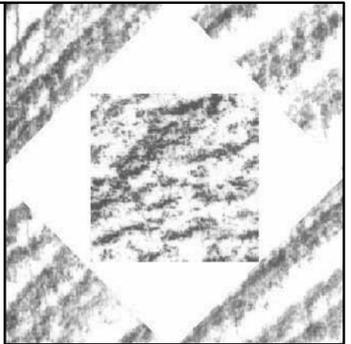
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WCA PROJECT NO:	10119
CAD DWG FILE NO:	
DRAWN BY:	WCA
CHECKED BY:	KPW
DESIGNED BY:	KPW
DWG TYPE:	ARCHITECTURAL
ARCHITECTURAL PHASE:	CONSTRUCTION DOCUMENTS
SHEET TITLE	

DETAILS

SE501

SHEET OF ?



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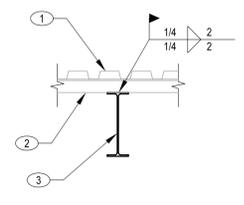
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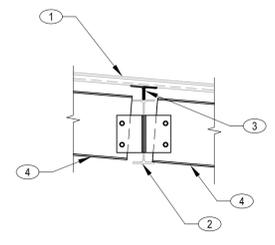
SE502
 SHEET OF ?

- KEYNOTES:**
- (E) B-DECK
 - (E) \perp 2-1/2x2-1/2x3/16" OUTRIGGERS
 - NEW ROOF BEAM, SEE PLANS



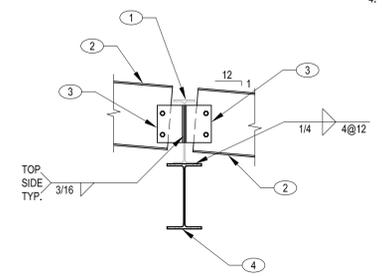
D5
 DETAIL
 NO SCALE

- KEYNOTES:**
- (E) B-DECK
 - (E) ROOF BEAM, SEE PLAN
 - (E) \perp 2-1/2x2-1/2x3/16" OUTRIGGERS
 - NEW ROOF BEAM, SEE PLAN
 - SEE DETAIL D2/SE502 FOR CONNECTION



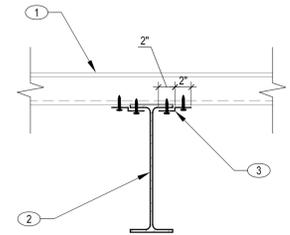
D4
 DETAIL
 NO SCALE

- KEYNOTES:**
- (E) ROOF BEAM, SEE PLAN
 - NEW ROOF BEAM, SEE PLAN
 - \perp 5x3x1/4" BY 7" WITH (2) 5/8"Ø A325
 - NEW BEAM, UNDER (E) BEAM



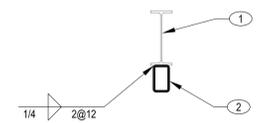
D2
 DETAIL
 NO SCALE

- KEYNOTES:**
- (E) B-DECK 22 GAGE
 - NEW STEEL BEAM, SEE PLAN
 - 14 GAGE 4x6 BENT PLATE WITH (2) #12 TEC SCREWS INTO BOTH BEAM FLANGE AND (E) N-DECK BOTH SIDES. FIELD INSTALL 4'-0"Ø.C. MAX. SPACING



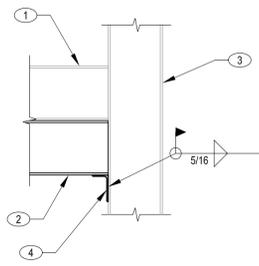
D1
 DETAIL
 NO SCALE

- KEYNOTES:**
- (E) STEEL BEAM, SEE PLAN
 - NEW HSS5x3x1/4" CONT.



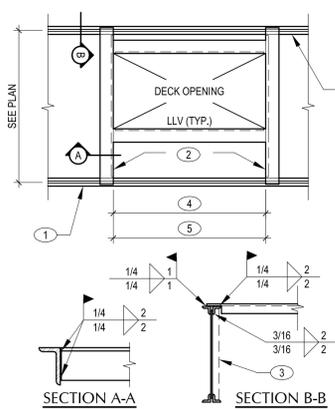
C4
 DETAIL
 NO SCALE

- KEYNOTES:**
- (E) BEAM, SEE PLAN
 - NEW BEAM, SEE PLAN
 - (E) COL.
 - NEW BEAM SEAT L5x3x5/8" BY 6"



C3
 DETAIL
 NO SCALE

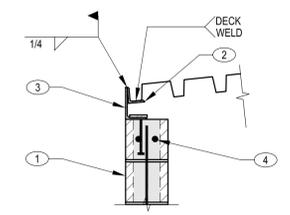
- KEYNOTES:**
- STEEL ROOF JOIST (TYP.)
 - 6x4x5/16" ANGLE (LLV)
 - 2x2x1/4" ANGLE BRACE FROM ANGLE BEARING TO BOTTOM CHORD PANEL POINT (NOT REQ'D IF ANGLE BEARS AT TOP CHORD PANEL POINT)
 - L3x3x1/4 FROM 1'-0" TO 3'-0" SPAN
 - L6x4x5/16 FROM 3'-0" TO 10'-0" SPAN.



C2
 TYP. DECK OPENING REINFORCEMENT
 NO SCALE

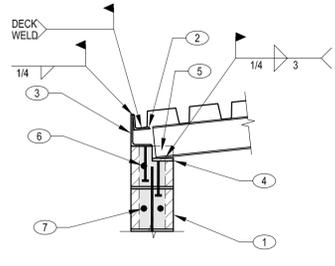
- NOTE:**
- USE THIS DETAIL AT OPENINGS 12' OR GREATER. OPENINGS LESS THAN 12' SHALL BE REINFORCED WITH 16 GAUGE PLATE, 10" LARGER THAN OPENING IN ALL DIRECTIONS & FASTENED TO DECK @ 6"Ø.C.
 - IF ROOF TOP UNITS ARE NOT SHOWN ON THE FRAMING PLAN, CONTRACTOR IS TO COORDINATE WEIGHTS AND LOCATIONS WITH JOIST SUPPLIER.

- KEYNOTES:**
- NEW 8" CMU WALL
 - L3x3x3/16" CONT.
 - L6x4x5/16" BY 12" WITH (2) 5/8"Ø BY 6" STUDS (LLV) SPACE @ 4'-0"Ø.C.
 - BEARING PLATE 1/2"x4x8" WITH (2) 5/8"Ø BY 6" STUDS
 - GROUT BEAM POCKET SOLID AFTER BEAM PLACEMENT
 - (1) #4 BY 4'-0"
 - (2) #4 CONT.



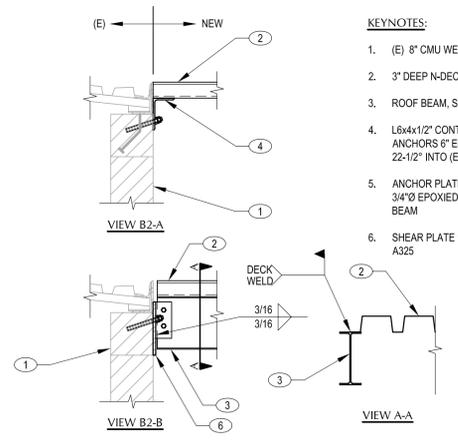
C4
 DETAIL
 NO SCALE

- KEYNOTES:**
- NEW 8" CMU WALL
 - L3x3x3/16" CONT.
 - L6x4x5/16" BY 12" WITH (2) 5/8"Ø BY 6" STUDS (LLV) SPACE @ 4'-0"Ø.C.
 - BEARING PLATE 1/2"x4x8" WITH (2) 5/8"Ø BY 6" STUDS
 - GROUT BEAM POCKET SOLID AFTER BEAM PLACEMENT
 - (1) #4 BY 4'-0"
 - (2) #4 CONT.



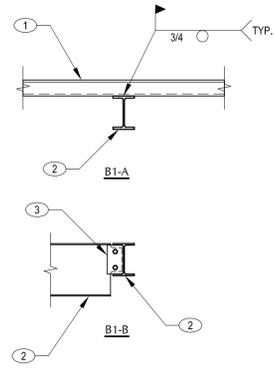
C3
 DETAIL
 NO SCALE

- KEYNOTES:**
- (E) 8" CMU WEST WALL
 - 3" DEEP N-DECK
 - ROOF BEAM, SEE PLAN FOR SIZE
 - L6x4x1/2" CONT. WITH (2) 3/4"Ø EPOXIED ANCHORS 6" EMBEDMENT, SLANT BOLTS 22-1/2" INTO (E) GROUTED CELL
 - ANCHOR PLATE 3/8x10x12" WITH (2) 3/4"Ø EPOXIED ANCHORS INTO (E) BOND BEAM
 - SHEAR PLATE 14x3x7" WITH (2) 5/8"Ø A325



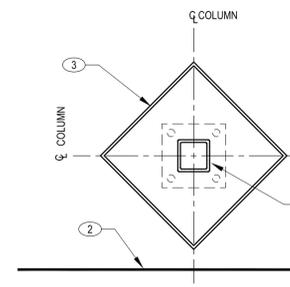
B2
 DETAIL
 NO SCALE

- KEYNOTES:**
- 3" DEEP N-DECK
 - ROOF BEAM, SEE PLAN
 - 1/4" SHEAR PLATE WITH (2) 5/8"Ø A325



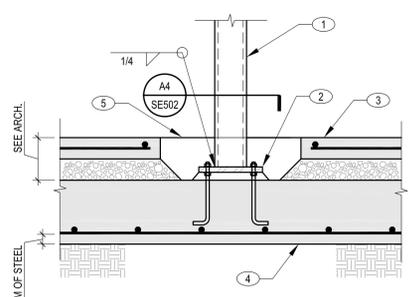
B1
 DETAIL
 NO SCALE

- KEYNOTES:**
- INTERIOR COLUMNS, SEE PLAN
 - (2) #5x4'-0" WHEN NO CONTROL JOINT OCCURS @ CORNER
 - ISOLATION JOINT



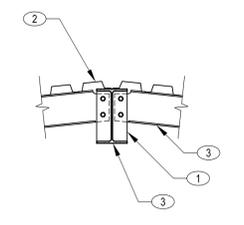
A4
 ISOLATION JOINT
 NO SCALE

- KEYNOTES:**
- STEEL COLUMN, SEE PLAN
 - 3/4" BASE PLATE COL. WIDTH + 6" x COL. DEPTH + 6" WITH (4) 3/4"Ø ANCHOR RODS ON 1-1/2" NON SHRINK GROUT WITH LEVELING NUTS. EXTEND ANCHOR RODS TO BOTTOM STEEL IN FOOTINGS.
 - CONCRETE SLAB ON GRADE, SEE PLAN
 - FOOTING, SEE PLAN AND SCHEDULE FOR SIZE AND REINF.
 - 2'-4" SQUARE ISOLATION NO REINF. REQ'D. POUR AFTER DEAD LOADS ARE IN PLACE



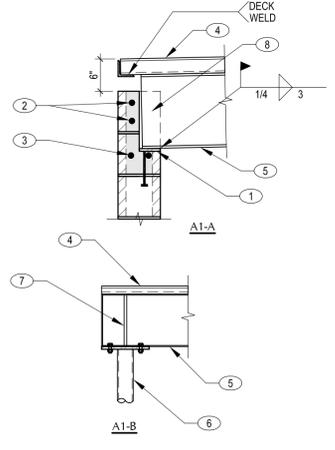
A3
 DETAIL
 NO SCALE

- KEYNOTES:**
- WEB PLATE 1/4" WITH 2" 5/8"Ø A325 BOLTS
 - 3" DEEP N-DECK
 - ROOF BEAM, SEE PLAN
 - RIDGE BEAM, SEE PLAN



A2
 DETAIL
 NO SCALE

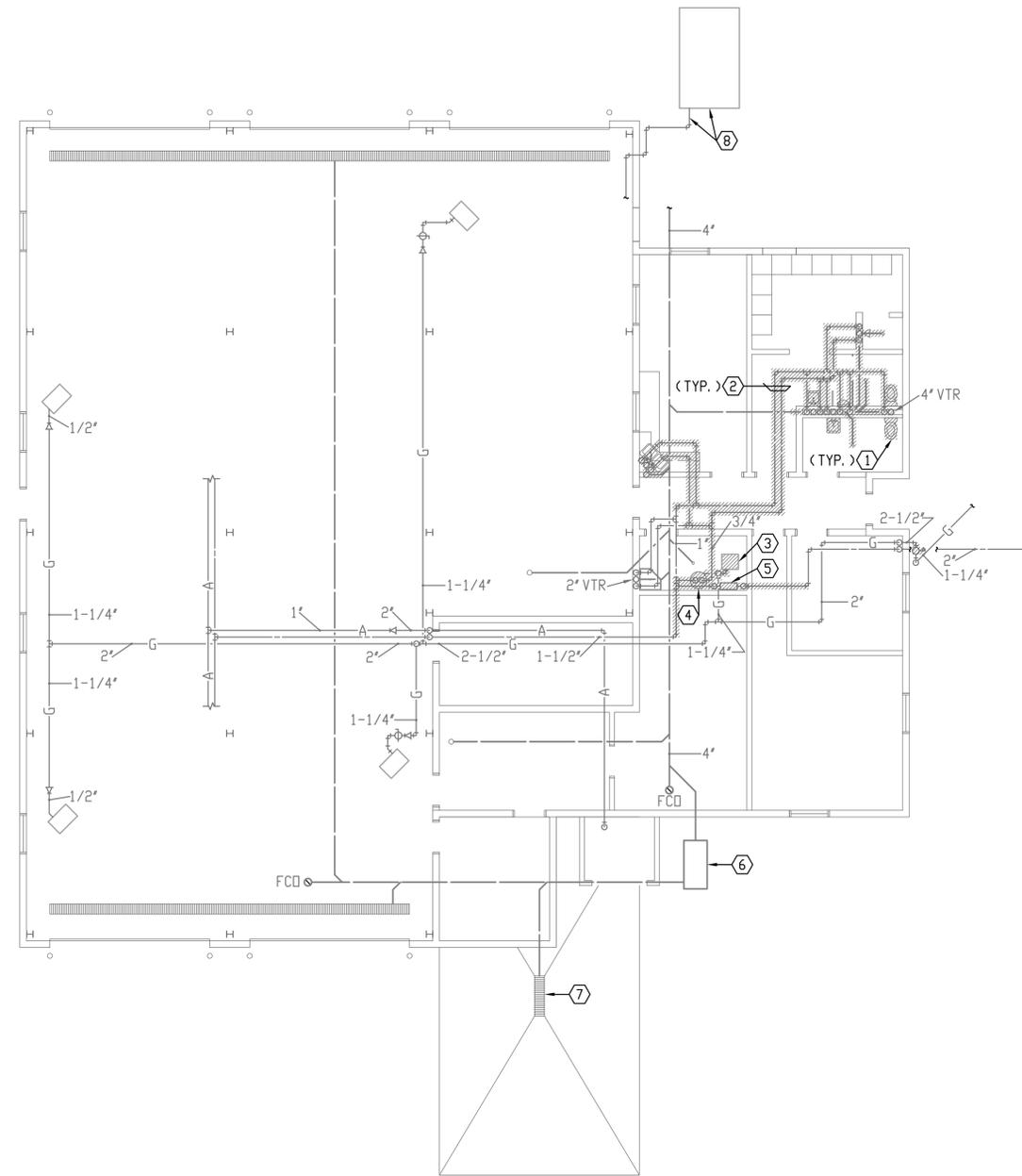
- KEYNOTES:**
- BEARING PLATE 3/4x4x12" WITH (2) 5/8"Øx6" STUDS
 - (2) #4 CONT.
 - (2) #4 BY 4'-0"
 - STEEL DECK
 - RIDGE BEAM
 - STEEL COL. WITH CAP PLATE 5/8x5x9-1/2" WITH (4) 5/8"Ø A325 BOLTS
 - WEB STIFFENERS, SEE DETAIL A2/SE502
 - GROUT BEAM POCKET SOLID AFTER BEAM PLACEMENT



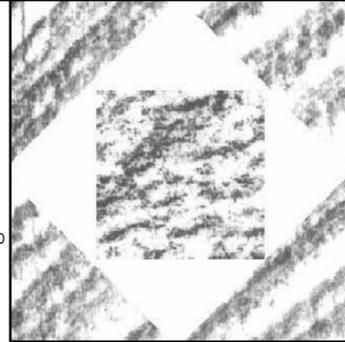
A1
 DETAIL
 NO SCALE

KEYED NOTES FOR SHEET P101

- ① REMOVE HATCHED PLUMBING FIXTURES AND ASSOCIATED PIPING.
- ② REMOVE HATCHED PIPING BACK TO WITHIN 6 INCHES OF MAIN.
- ③ REMOVE FURNACE AND GAS PIPE.
- ④ REMOVE WATER HEATER AND ASSOCIATED PIPING.
- ⑤ REMOVE EXISTING PRV STATION.
- ⑥ EXISTING GREASE TRAP TO REMAIN.
- ⑦ EXISTING SAND TRAP AND DRAIN TO REMAIN.
- ⑧ GREASE AND ANTIFREEZE REMOTE STORAGE STRUCTURE TO BE RELOCATED BY OWNER. ALL HOSES, PIPING, ETC. WILL ALSO BE RELOCATED BY OWNER.



A3 PLUMBING DEMOLITION PLAN
SCALE: 1/8"=1'-0"



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**CAMP WILLIAMS UTES
EAST REMODEL DESIGN**

UTAH NATIONAL GUARD
CAMP WILLIAMS

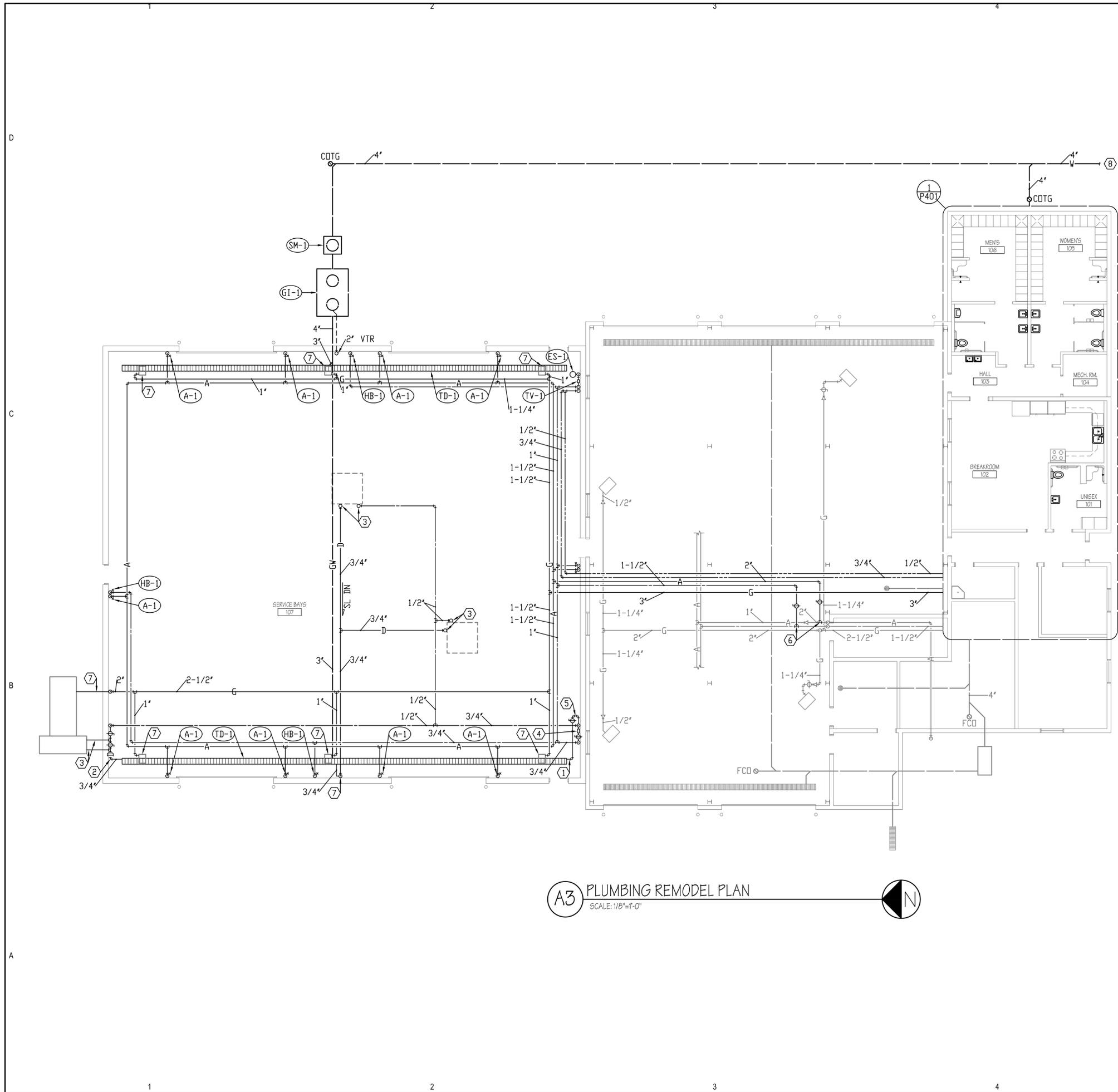
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HFSA PROJECT NO:	1022.01
CAD DWG FILE NO:	10089
DRAWN BY:	BDA
CHECKED BY:	HLA
DESIGNED BY:	HLA
DWG TYPE:	MECHANICAL
ARCHITECTURAL PHASE:	CONSTRUCTION DOCUMENTS

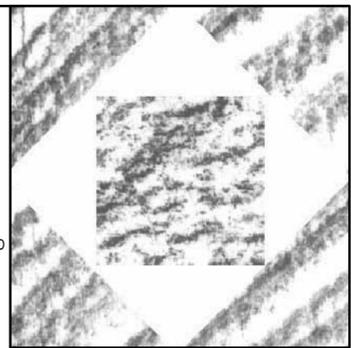
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**PLUMBING
DEMOLITION
PLAN**

P101
SHEET 1 OF 13

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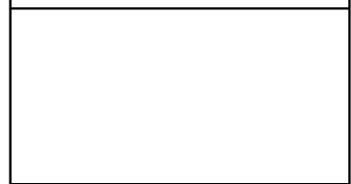


- KEYED NOTES FOR SHEET P201
- ① 3/4" DRAIN FROM BACKFLOW PREVENTER, DRAIN AND EVAPORATIVE COOLER FILL STATION DRAIN.
 - ② EXTEND GRAVITY DRAIN FROM EVAPORATIVE COOLER SUMP PUMP SIDE DISCHARGE TO TRENCH DRAIN.
 - ③ RISE 1/2" WATER TO EVAPORATIVE COOLER SUMP VALVE AND 3/4" DRAIN TO SUMP PUMP SIDE DISCHARGE.
 - ④ 3/4" REDUCED PRESSURE BACKFLOW PREVENTER ON WALL MOUNTED AT 42" A. F. F.
 - ⑤ EVAPORATIVE COOLER FILL STATION DRAIN.
 - ⑥ CONNECT TO EXISTING PIPING.
 - ⑦ CONNECT TO GAS APPLIANCE WITH ISOLATION VALVE AND FLEX PIPE WITH UNION, SEE DETAIL.
 - ⑧ SEE SITE PLAN FOR CONTINUATION.



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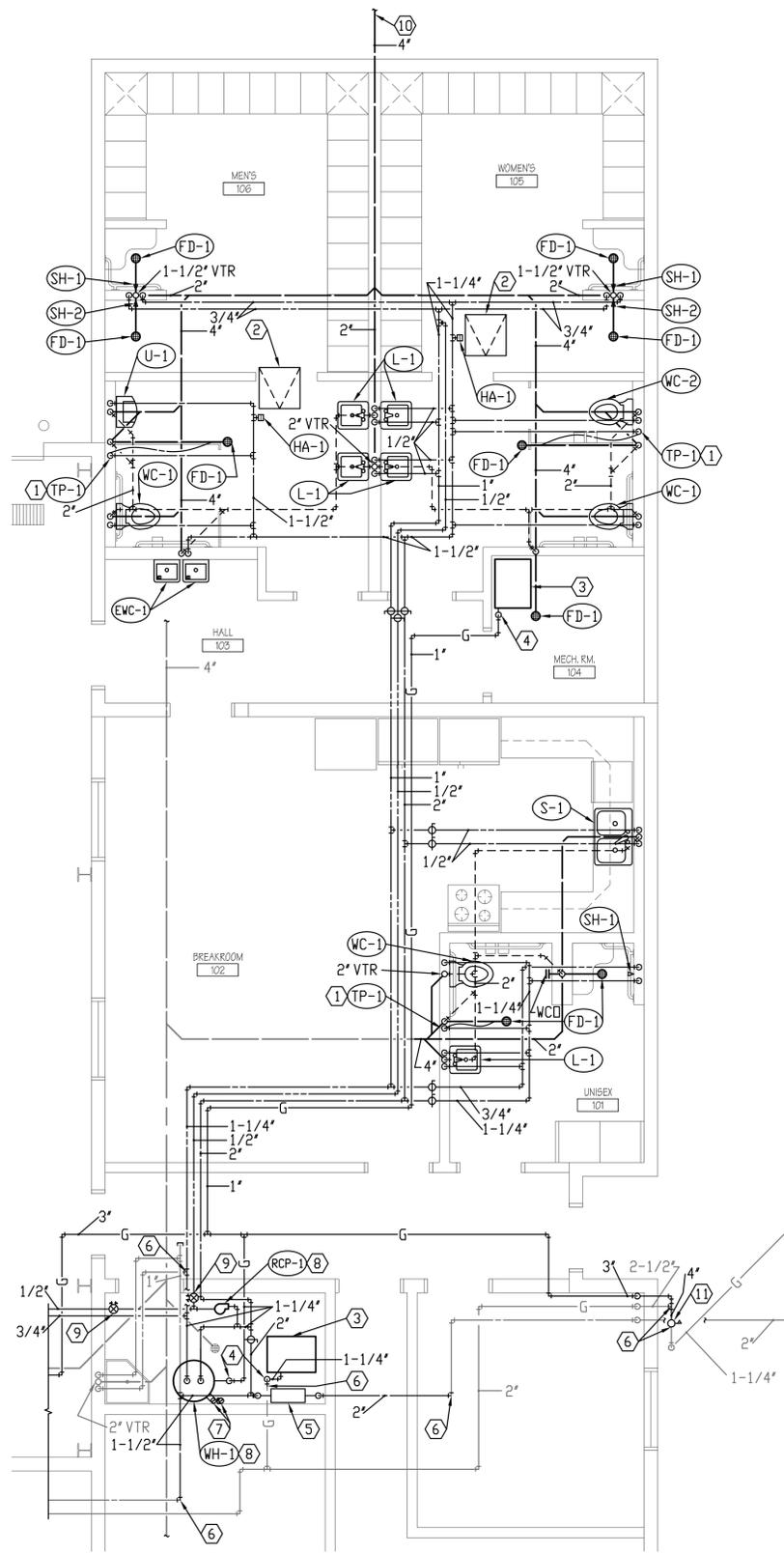
**PLUMBING
 REMODEL
 PLAN
 P201**

SHEET 2 OF 13

A3 PLUMBING REMODEL PLAN
 SCALE: 1/8"=1'-0"



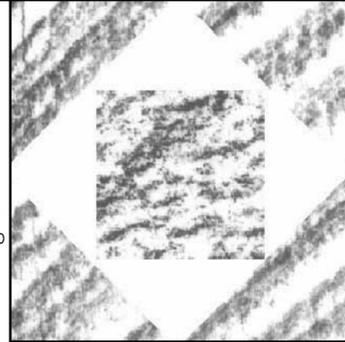
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1 PLUMBING LARGE SCALE PLAN
SCALE: 1/4"=1'-0"

KEYED NOTES FOR SHEET P401

- ① PROVIDE AND INSTALL STAINLESS STEEL LOCKING WALL ACCESS DOOR TO SERVICE TRAP PRIMER.
- ② PROVIDE AND INSTALL 24"X24" CEILING ACCESS DOOR FOR HAMMER ARRESTOR.
- ③ EXTEND DRAIN FROM COOLING COIL TO FLOOR DRAIN.
- ④ INSTALL ISOLATION VALVE, DIRT LEG, FLEX HOSE AND UNION AND CONNECT TO APPLIANCE. SEE DETAIL.
- ⑤ NEW 2" PRV.
- ⑥ CONNECT TO EXISTING PIPE.
- ⑦ RISE WATER HEATER GAS VENTS THROUGH ROOF.
- ⑧ SEE DETAIL FOR WATER HEATER, EXPANSION TANK AND RECIRCULATION PUMP PIPING.
- ⑨ BALANCE CIRCUIT SETTER TO 3 GPM.
- ⑩ SEE SHEET P201 FOR CONTINUATION.
- ⑪ NEW GAS REGULATOR 20 LB TO 4 DUNCE AT 1,907 MBH.



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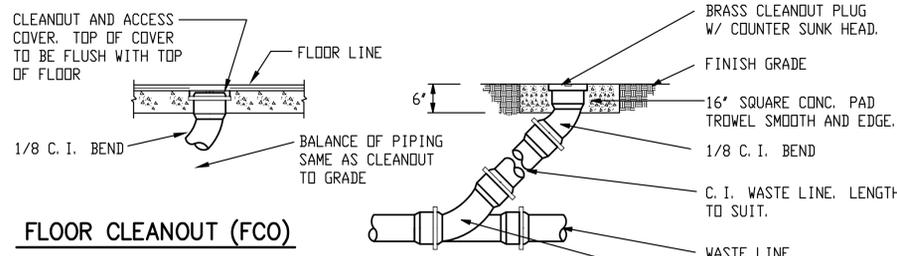
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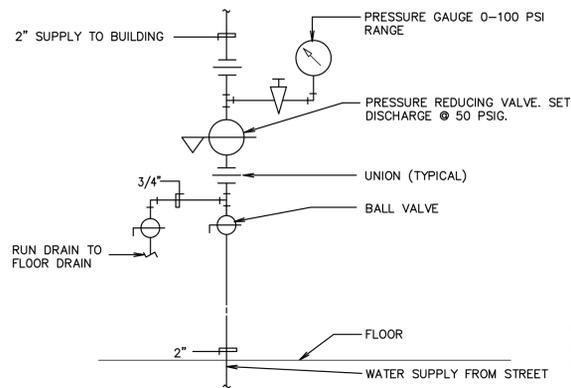
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ARCHITECTURAL PHASE:	CONSTRUCTION DOCUMENTS

SHEET TITLE
**PLUMBING
LARGE SCALE
PLAN**

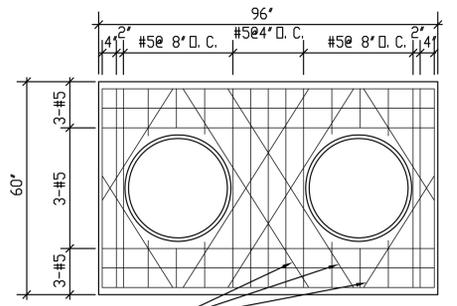
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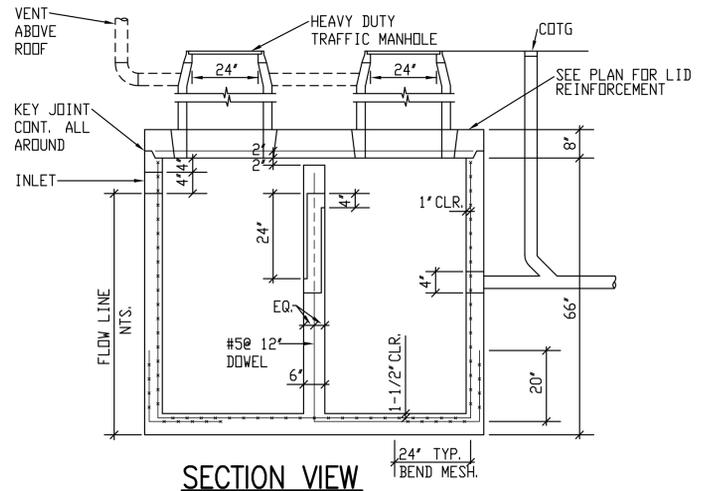
7 CLEANOUT DETAILS
SCALE NONE



4 VERTICAL WATER PRESSURE REDUCING STATION DETAIL
SCALE NONE

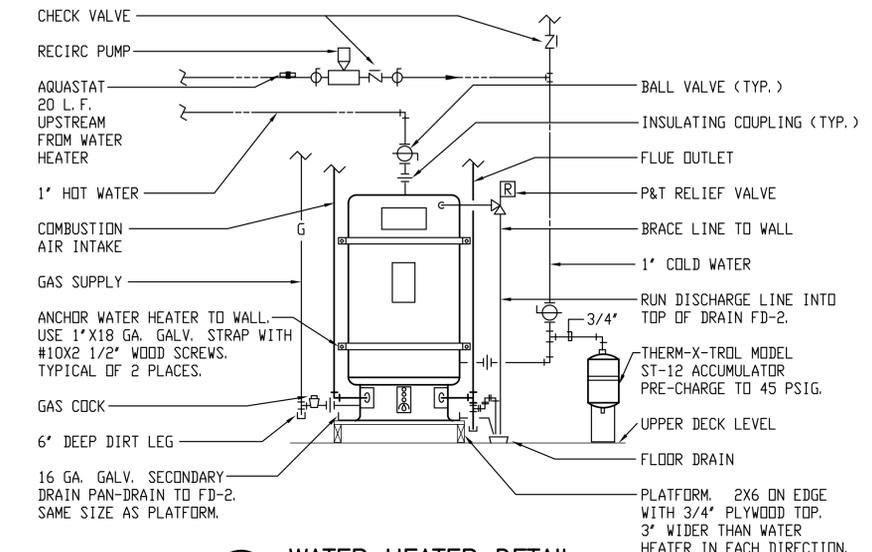


PLAN VIEW

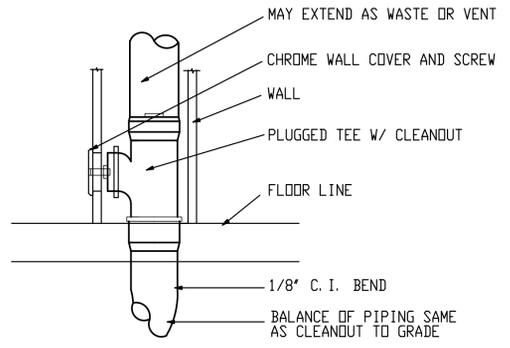


SECTION VIEW

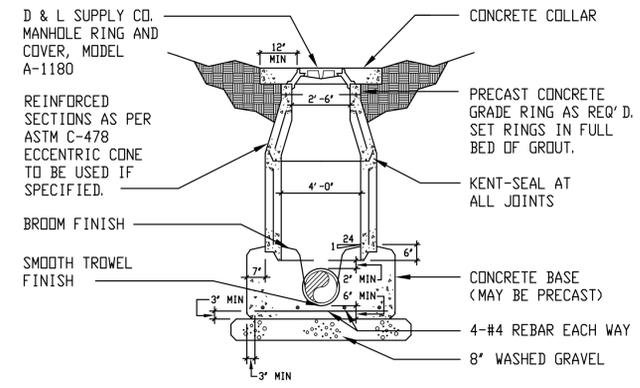
1 800 GALLON SAND AND OIL INTERCEPTOR
SCALE NONE



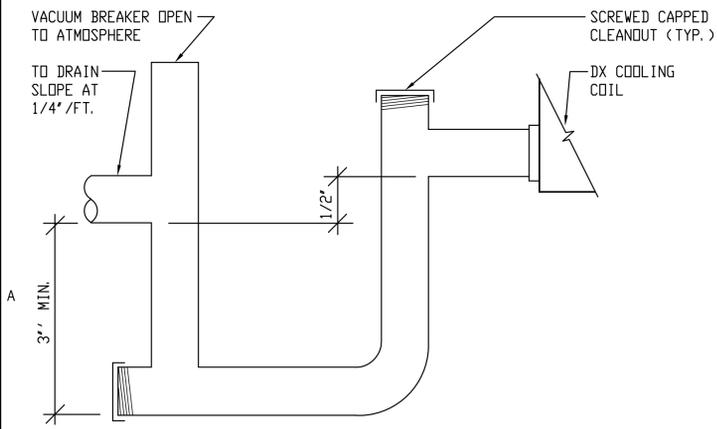
8 WATER HEATER DETAIL
SCALE NONE



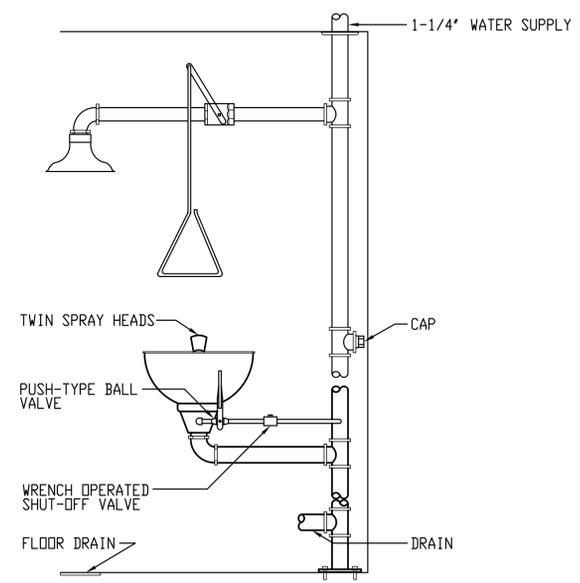
5 WALL CLEANOUT DETAIL
SCALE NONE



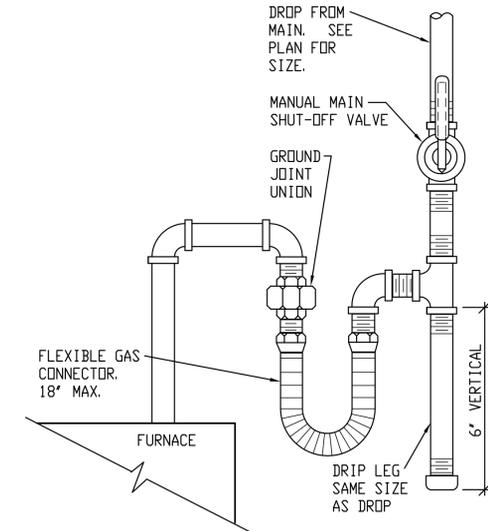
2 MANHOLE DETAIL
SCALE NONE



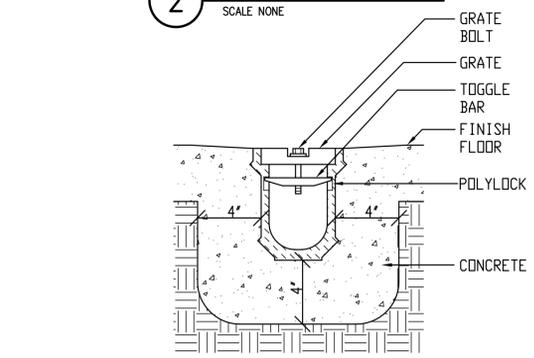
10 COOLING COIL CONDENSATE DRAIN DETAIL
SCALE NONE



9 EMERGENCY EYE WASH/SHOWER DETAIL
SCALE NONE



6 GAS LINE CONNECTION DETAIL
SCALE NONE



3 TRENCH DRAIN DETAIL
SCALE NONE

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SHEET TITLE	

**PLUMBING
DETAILS**

P501

SHEET 4 OF 13

PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE	PIPE SIZE						REMARKS
		TRAP	WASTE	VENT	CW	HW	AIR	
WC-1	WATER CLOSET (ADA)	INT	4	2	1			FLOOR MTD, FLUSH VALVE
WC-2	WATER CLOSET	INT	4	2	1			FLOOR MTD, FLUSH VALVE
U-1	URINAL	INT	3	2	3/4			
L-1	LAVATORY (ADA)	1-1/4	1-1/2	1-1/2	1/2	1/2		WALL HUNG ⑤
SH-1	SHOWER (ADA)				1/2	1/2		
SH-2	SHOWER				1/2	1/2		
FD-1	FLOOR DRAIN	2	2	2				③
TP-1	TRAP PRIMER				1/2			
EW-1	ELECTRIC WATER COOLER	1-1/4	1-1/2	1-1/2	1/2			BI-LEVEL (ADA)
S-1	BREAK ROOM SINK	1-1/2	1-1/2	1-1/2	1/2	1/2		
TD-1	TRENCH DRAIN		3					75 FT LONG X 6 INCHES WIDE ④
GI-1	GREASE INTERCEPTOR		4	2				
SM-1	SAMPLING MANHOLE		4					
HB-1	HOSE BIBB				1/2			②
A-1	AIR OUTLET						1/2	
WH-1	WATER HEATER				1-1/4	1-1/4		199 MBH, 100 GALLON
RCP-1	RECIRCULATION PUMP					1/2		6 GPM @ 15 FT HEAD ①
HA-1	HAMMER ARRESTOR							SIZE AS PER MANUFACTURER
○								

- ① PROVIDE 24 HOUR WALL TIMER WITH OVERRIDE SWITCH. POWER REQUIREMENT IS 115 VOLT, 1/6 HP.
- ② PROVIDE WITH VACUUM BREAKER AND MALE HOSE THREAD.
- ③ PROVIDE WITH TRAP PRIMER CONNECTION WHERE SHOWN.
- ④ SLOPE DRAIN TO CENTER.
- ⑤ PROVIDE WITH TEMPERING VALVE.

PLUMBING LEGEND

HOT WATER LINE	_____
COLD WATER LINE	_____
RECIRC LINE	_____
VENT LINE	-----
ABOVE GRADE WASTE LINE	_____
UNDER GRADE WASTE LINE	_____
GAS LINE	_____G_____
DRAIN LINE	_____D_____
VENT THRU ROOF	VTR
WALL CLEAN OUT	WCO
CLEAN OUT	CO
CLEAN OUT TO GRADE	COTG
FLOOR CLEAN OUT	FCO
BALL VALVE	⊕
UNION	+
GAS COCK VALVE	⊞
PRESSURE REGULATOR	P
DROP	⊖ ⊕
RISE	⊕ ⊖
ROOF DRAIN	RD
SECONDARY ROOF DRAIN	SRD
ROOF DRAIN (BELOW GRADE)	RD

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CHECKED BY: HLA
DESIGNED BY: HLA
DWG TYPE: MECHANICAL
ARCHITECTURAL PHASE:
CONSTRUCTION DOCUMENTS

SHEET TITLE

PLUMBING SCHEDULE AND LEGEND

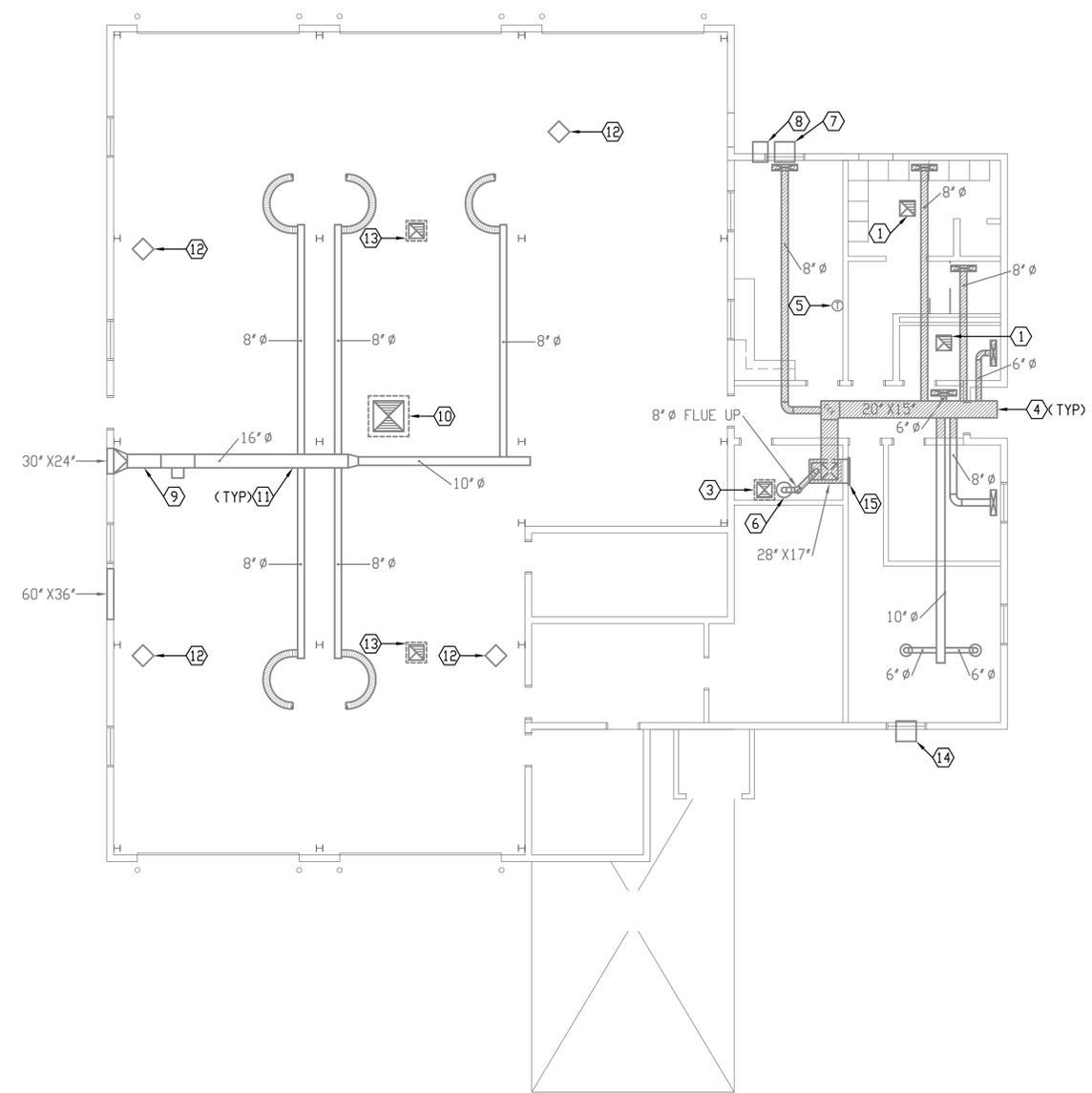
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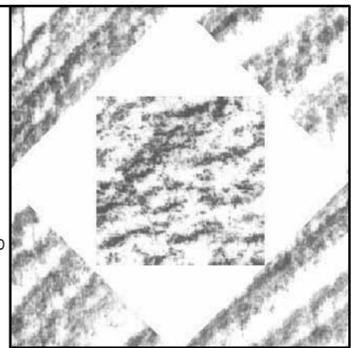
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KEYED NOTES FOR SHEET M101

- ① REMOVE CEILING EXHAUST FAN.
- ② REMOVE FURNACE AND RETURN DUCT.
- ③ COMBUSTION AIR TO REMAIN.
- ④ REMOVE HATCHED DUCT.
- ⑤ REMOVE THERMOSTAT.
- ⑥ WATER HEATER TO REMAIN.
- ⑦ REMOVE WINDOW A/C UNIT.
- ⑧ REMOVE THROUGH THE WALL A/C UNIT.
- ⑨ REMOVE DISCHARGE DUCT AND LOUVER FROM VEHICLE EXHAUST FAN.
- ⑩ EVAPORATIVE COOLER TO REMAIN.
- ⑪ VEHICLE EXHAUST SYSTEM TO REMAIN.
- ⑫ UNIT HEATER TO REMAIN.
- ⑬ ROOFTOP EXHAUST TO REMAIN.
- ⑭ WINDOW A/C UNIT TO REMAIN.
- ⑮ WALL GRILLE TO REMAIN.



A3 MECHANICAL DEMOLITION PLAN
SCALE: 1/8"=1'-0"



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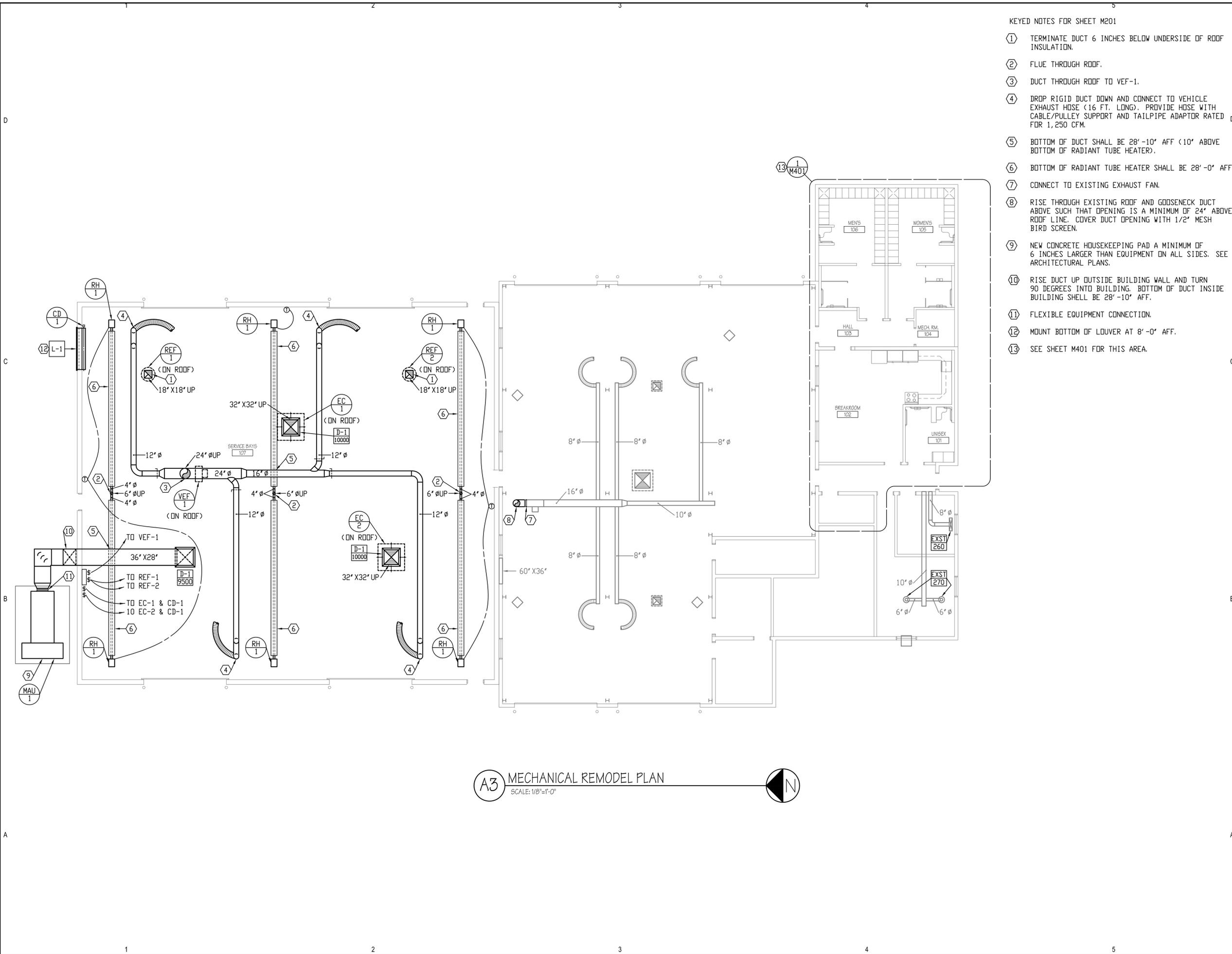
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**MECHANICAL
DEMOLITION
PLAN**

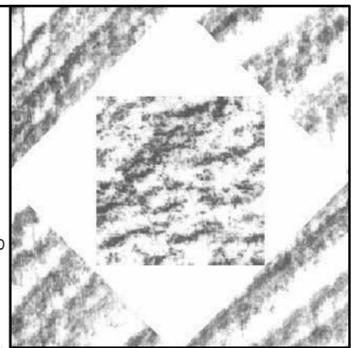
M101

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KEYED NOTES FOR SHEET M201

- ① TERMINATE DUCT 6 INCHES BELOW UNDERSIDE OF ROOF INSULATION.
- ② FLUE THROUGH ROOF.
- ③ DUCT THROUGH ROOF TO VEF-1.
- ④ DROP RIGID DUCT DOWN AND CONNECT TO VEHICLE EXHAUST HOSE (16 FT. LONG). PROVIDE HOSE WITH CABLE/PULLEY SUPPORT AND TAILPIPE ADAPTOR RATED FOR 1,250 CFM.
- ⑤ BOTTOM OF DUCT SHALL BE 28'-10" AFF (10' ABOVE BOTTOM OF RADIANT TUBE HEATER).
- ⑥ BOTTOM OF RADIANT TUBE HEATER SHALL BE 28'-0" AFF.
- ⑦ CONNECT TO EXISTING EXHAUST FAN.
- ⑧ RISE THROUGH EXISTING ROOF AND GOOSENECK DUCT ABOVE SUCH THAT OPENING IS A MINIMUM OF 24" ABOVE ROOF LINE. COVER DUCT OPENING WITH 1/2" MESH BIRD SCREEN.
- ⑨ NEW CONCRETE HOUSEKEEPING PAD A MINIMUM OF 6 INCHES LARGER THAN EQUIPMENT ON ALL SIDES. SEE ARCHITECTURAL PLANS.
- ⑩ RISE DUCT UP OUTSIDE BUILDING WALL AND TURN 90 DEGREES INTO BUILDING. BOTTOM OF DUCT INSIDE BUILDING SHELL BE 28'-10" AFF.
- ⑪ FLEXIBLE EQUIPMENT CONNECTION.
- ⑫ MOUNT BOTTOM OF LOUVER AT 8'-0" AFF.
- ⑬ SEE SHEET M401 FOR THIS AREA.



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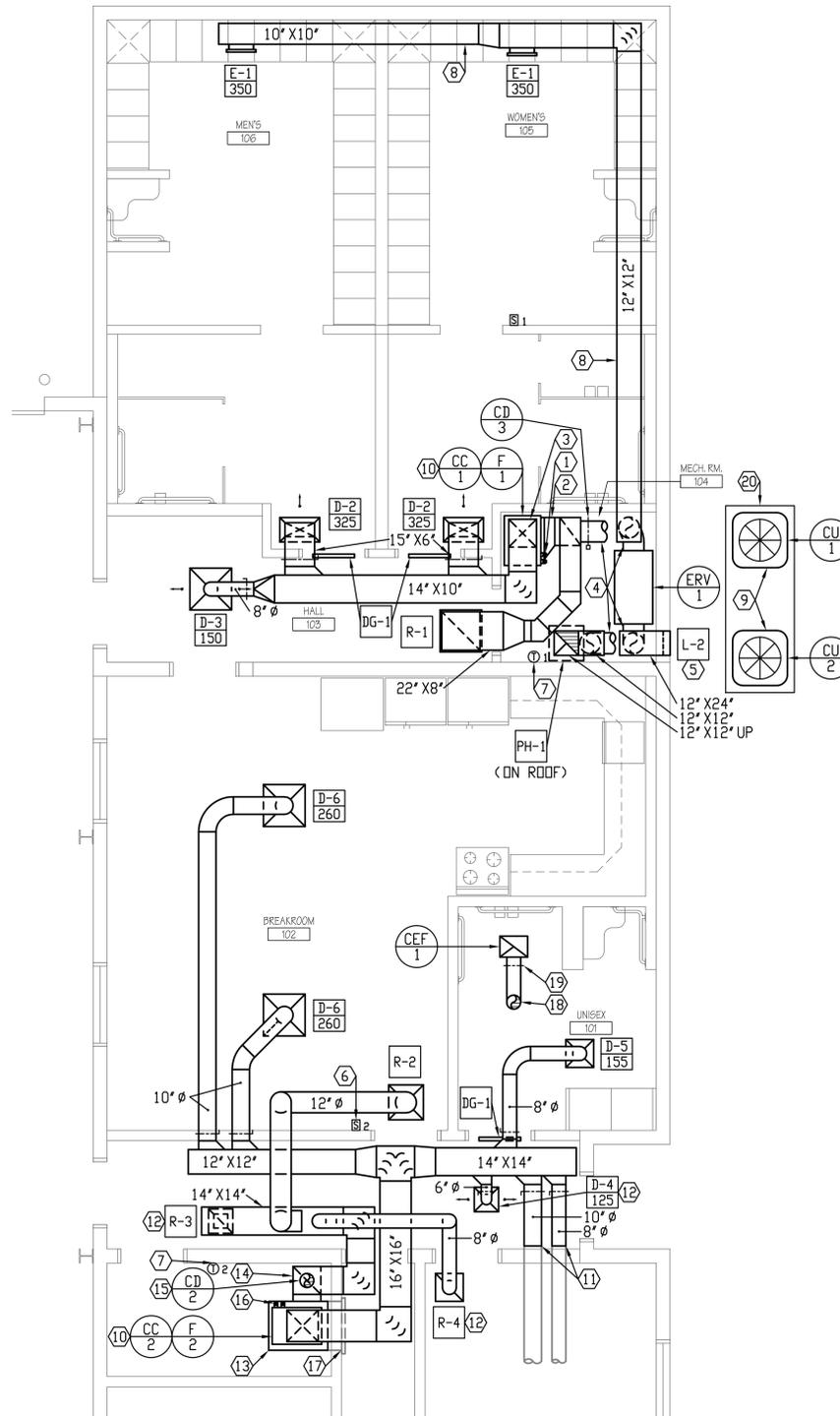
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**MECHANICAL
 REMODEL
 PLAN
 M201**

A3 MECHANICAL REMODEL PLAN
 SCALE: 1/8"=1'-0"



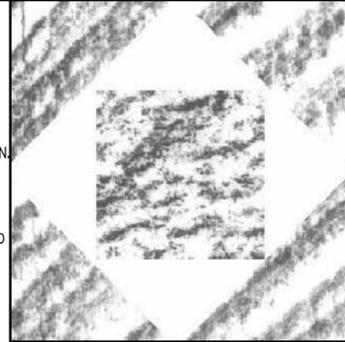
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1 MECHANICAL LARGE SCALE PLAN
SCALE: 1/4"=1'-0"

KEYED NOTES FOR SHEET M401

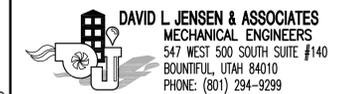
- 1 RISE GAS VENTS THROUGH ROOF, SEE DETAIL.
- 2 TRANSITION TO FURNACE INLET AND INSTALL FLEX DUCT AT CONNECTION.
- 3 TRANSITION DUCT TO COOLING COIL AND INSTALL FLEX DUCT AT CONNECTION.
- 4 CONNECT 12" Ø DUCT TO ERV WITH FLEXIBLE DUCT.
- 5 MOUNT LOUVER AS HIGH AS POSSIBLE ON WALL.
- 6 REMOTE TEMPERATURE SENSOR.
- 7 THERMOSTAT.
- 8 RUN DUCT IN SOFFIT.
- 9 MAINTAIN 36" CLEARANCE ON ALL SIDES OF CONDENSING UNIT.
- 10 RUN REFRIGERANT PIPING FROM COOLING COIL TO CONDENSING UNIT, SEE DETAILS.
- 11 CONNECT TO EXISTING DUCT.
- 12 INSTALL IN EXISTING CEILING, VERIFY TYPE.
- 13 SHEET METAL PLENUM UNDER FURNACE.
- 14 DROP 14" X 14" DUCT DOWN AND CONNECT TO RETURN AIR PLENUM BELOW FURNACE.
- 15 RISE 8" Ø OUTSIDE AIR UP THROUGH ROOF AND TERMINATE WITH ROOF CAP. INSTALL CONTROL DAMPER IN RISE AND CONNECT TO FURNACE CONTROLS.
- 16 RISE GAS VENTS UP THROUGH ROOF AND EXTEND 36" ABOVE OUTSIDE AIR VENT.
- 17 CONNECT TO EXISTING WALL GRILLE.
- 18 RISE 8" Ø EXHAUST DUCT THROUGH ROOF AND TERMINATE WITH ROOF CAP.
- 19 BACKDRAFT DAMPER.
- 20 NEW CONCRETE PAD TO EXTEND 4' BEYOND EQUIPMENT ON ALL SIDES, SEE ARCHITECTURAL.



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CAMP WILLIAMS UTES
EAST REMODEL DESIGN

UTAH NATIONAL GUARD
CAMP WILLIAMS

MARK	DATE	DESCRIPTION

DATE:	30 AUGUST 2010
AGENCY PROJECT NO:	10207480
HFSA PROJECT NO:	1022.01
CAD DWG FILE NO:	10089
DRAWN BY:	BDA
CHECKED BY:	HLA
DESIGNED BY:	HLA
DWG TYPE:	MECHANICAL

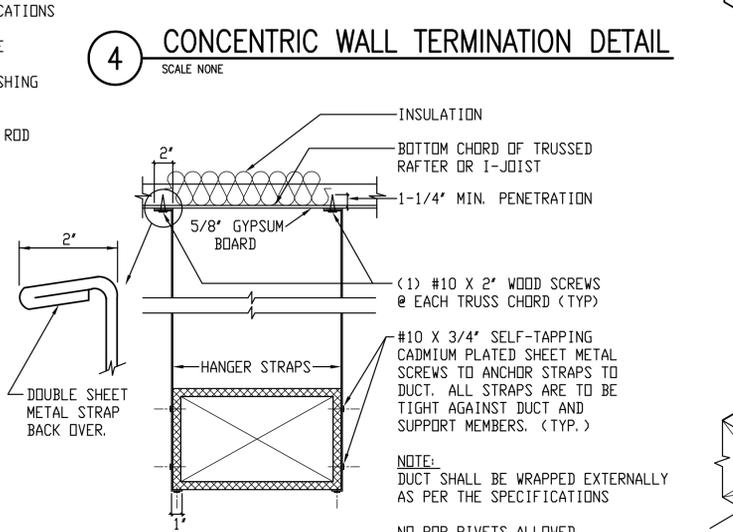
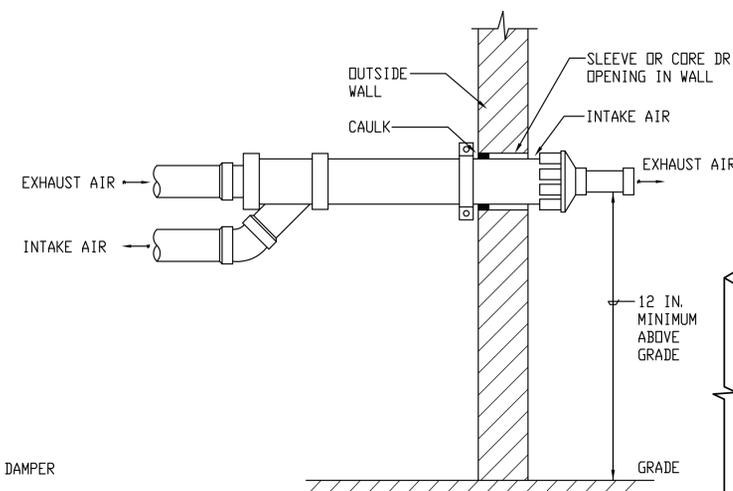
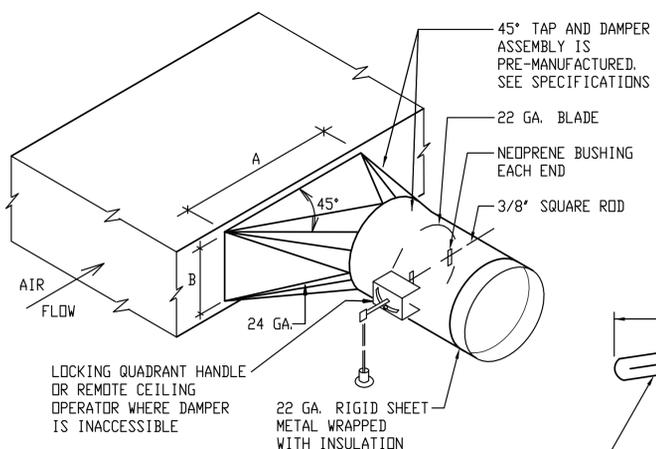
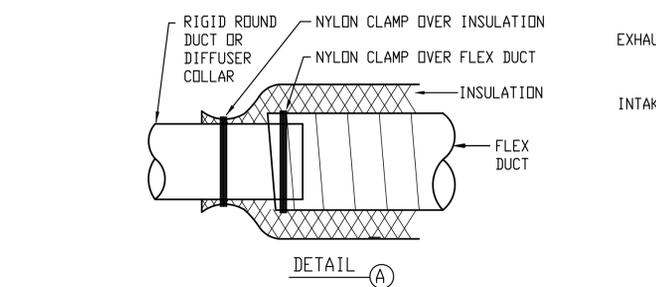
ARCHITECTURAL PHASE:
CONSTRUCTION DOCUMENTS

SHEET TITLE

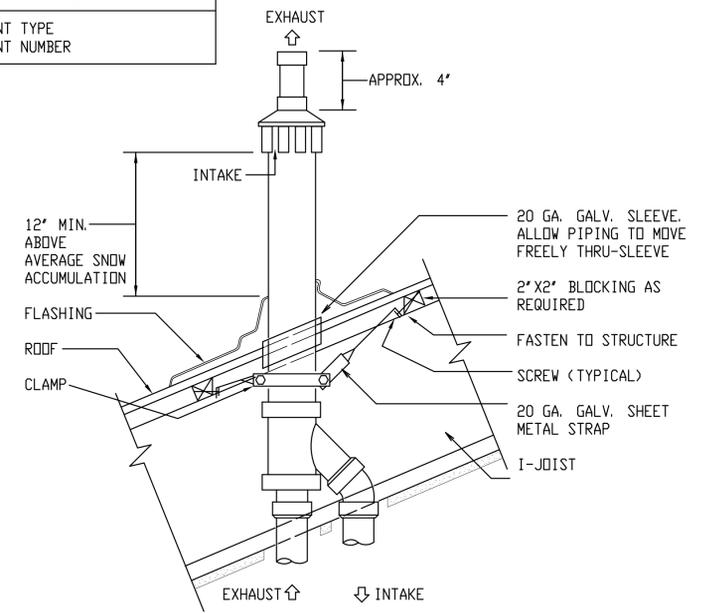
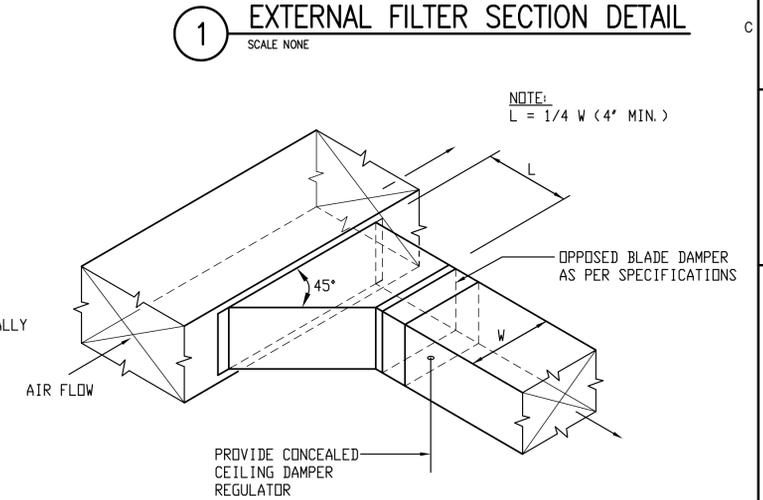
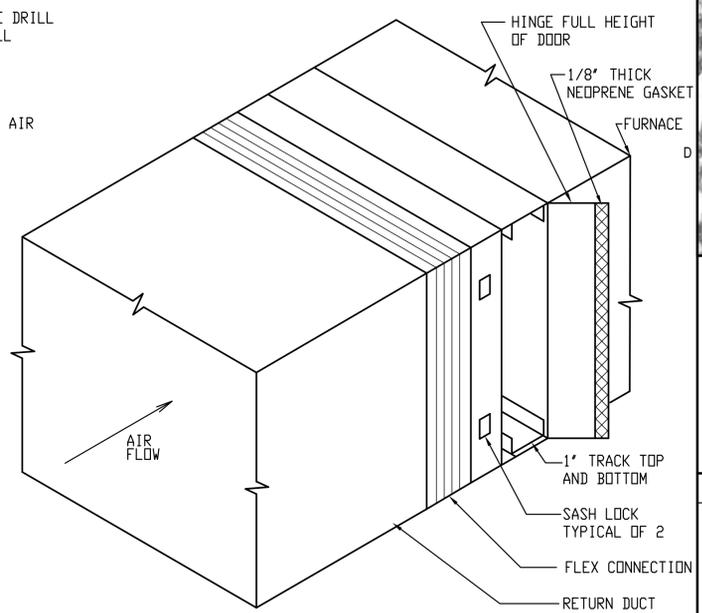
MECHANICAL
LARGE SCALE
PLAN

M401

H.V.A.C. LEGEND		
SYMBOL	ABBREVIATION	DESCRIPTION
		BRANCH DUCT TAKE-OFF
		DUCT FLEXIBLE CONNECTION
		TURNING VANES
		DUCT TEE CONNECTION
		DUCT TRANSITION
		SQUARE TO ROUND DUCT TRANSITION
		AUTOMATIC DAMPER
		OPPOSED BLADE VOLUME DAMPER W/ CONCEALED CEILING DPR REGULATOR
		BACK-DRAFT DAMPER
		DUCT ACCESS DOOR
	RA	RETURN AIR, RISE AND DROP
	SA	SUPPLY AIR, RISE AND DROP
	EA	EXHAUST AIR, RISE AND DROP
	OA	OUTSIDE AIR, RISE AND DROP
	ATC	AUTOMATIC TEMP. CONTROL
	FD	FIRE DAMPER
	FSD	FIRE SMOKE DAMPER
		THERMOSTAT
		SENSOR
	X-#	AIR DEVICE
	X-# #	AIR DEVICE CFM
	#	REFERENCE NOTE
	X S#	DETAIL NUMBER SHEET DETAIL APPEARS
	X #	EQUIPMENT TYPE EQUIPMENT NUMBER



MAX. SIDE	HANGER	HORIZONTAL SUPPORT ANGLE	MAXIMUM SPACING
UP TO 34"	1"X18 GAUGE STRAP	NONE REQUIRED	8'-0"

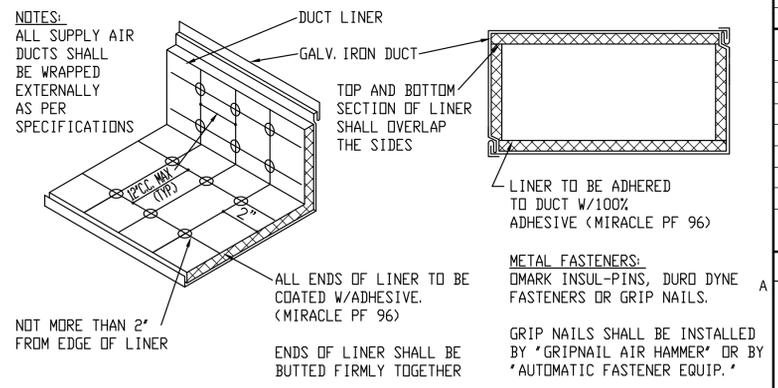


NOTE: USE EXTENSION KIT NECESSARY TO ACHIEVE CLEARANCE ABOVE SNOW LEVEL.

DIMENSION OF LONGEST SIDE, INCHES	SHEET METAL GAUGE (ALL FOUR SIDES)	MINIMUM REINFORCING ANGLE SIZE AND MAXIMUM LONGITUDINAL SPACING BETWEEN TRANSVERSE JOINTS &/OR INTERMEDIATE REINFORCING	TRANSVERSE REINFORCING (1)			
			AT JOINTS			
			DRIVE SLIP	HEMMED S SLIP	ALTER' NT BAR SLIP	REIN-FORCED BAR SLIP
			MIN. H. IN.	RECOM-MENDED GAUGE	RECOM-MENDED GAUGE	RECOM-MENDED GAUGE
UP THRU 12	26	NONE REQUIRED	1	26	26	24
13 - 18	24	NONE REQUIRED	1	24	24	24
19 - 30	24	1"X1"X1/8" @ 60 IN (3)	1	-	24	24
31 - 36	22	1"X1"X1/8" @ 60 IN (3)	1	-	-	22

- TRANSVERSE REINFORCING SIZE IS DETERMINED BY DIMENSION OF SIDE TO WHICH ANGLE IS APPLICABLE
- LONGITUDINAL JOINTS TO BE PITTSBURGH OR SNAP LOCK TYPE.
- IF BAR SLIP OR REINFORCED BAR SLIP JOINTS ARE USED, ANGLE IRON REINFORCING SHALL NOT BE REQUIRED.

6 DUCT CONSTRUCTION DETAIL
SCALE NONE



3 DUCT LINER DETAIL
SCALE NONE

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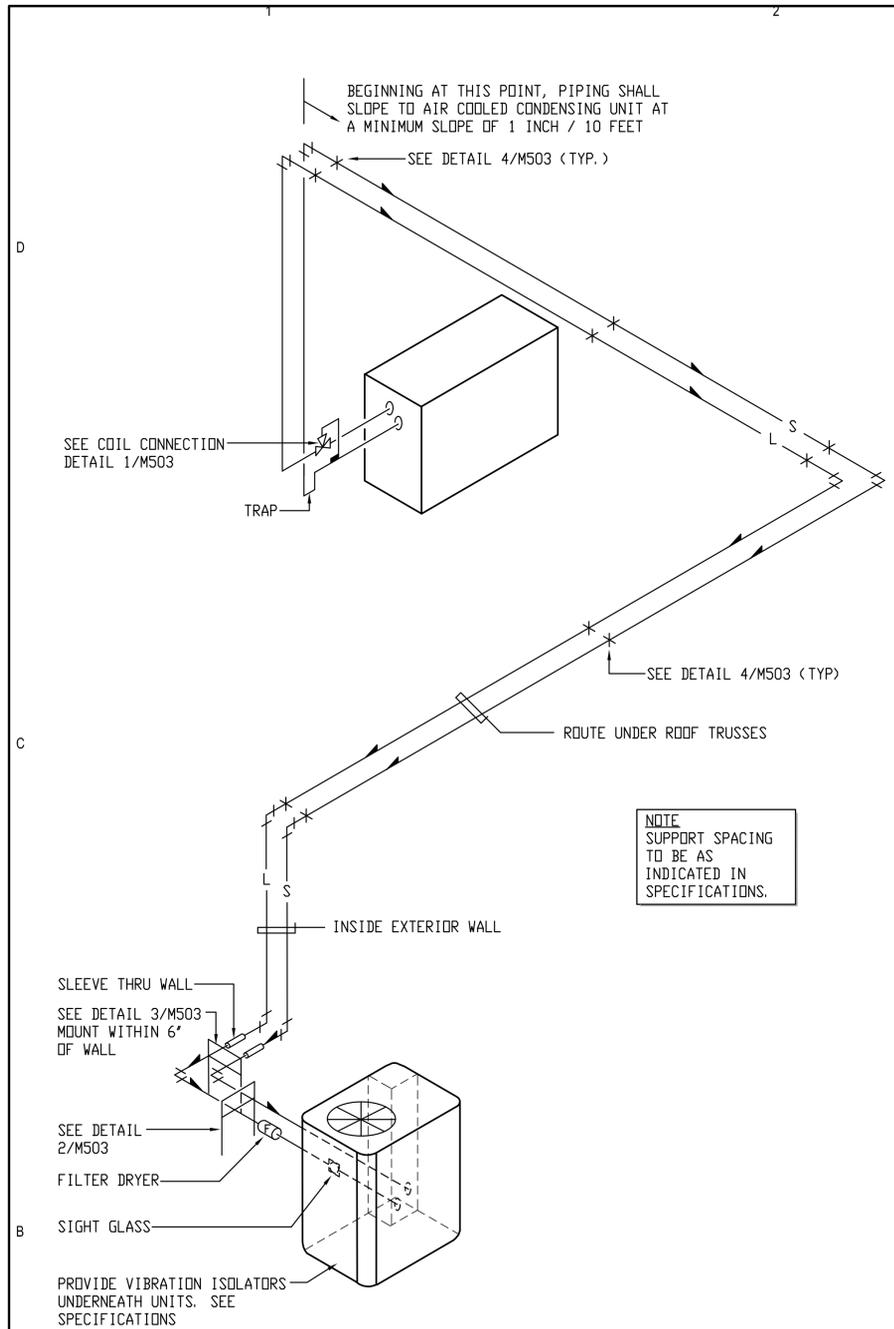
UTAH NATIONAL GUARD
CAMP WILLIAMS

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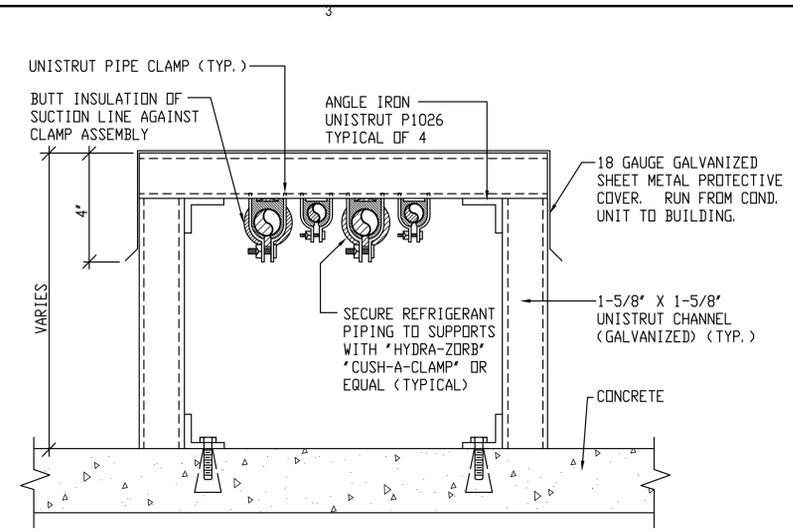
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MECHANICAL
DETAILS

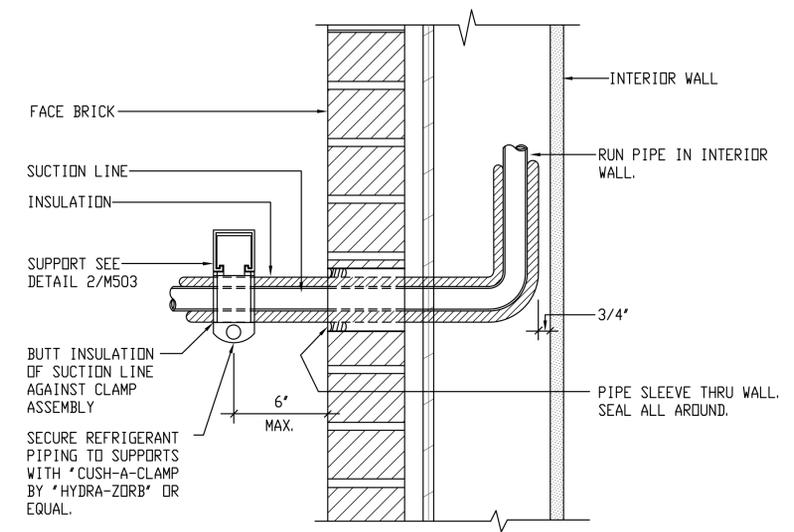
M501
SHEET 9 OF 13



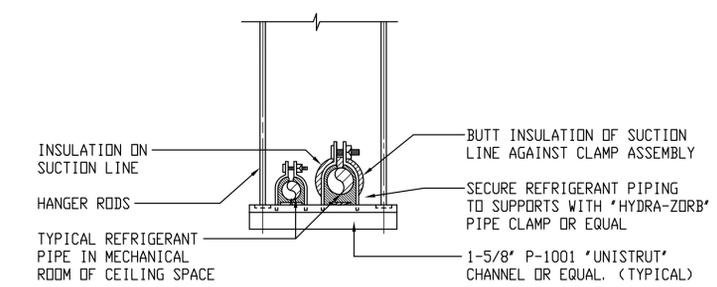
5 TYPICAL REFRIGERANT SCHEME
SCALE NONE



2 EXTERIOR REFRIGERANT PIPE SUPPORT DETAIL
SCALE NONE



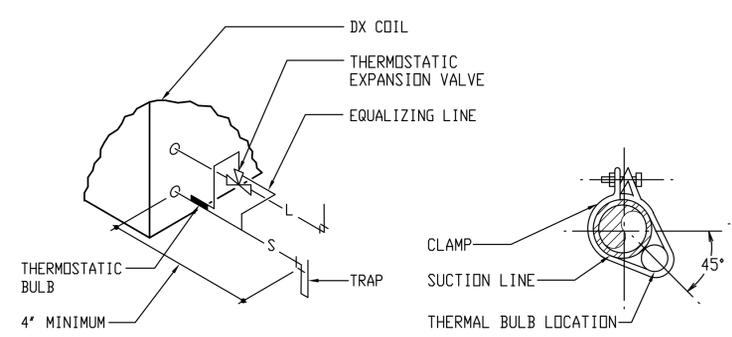
3 REFRIGERANT PIPE SUPPORT AT WALL
SCALE NONE



4 SUSPENDED REFRIGERANT PIPE SUPPORT AT CEILING
SCALE NONE

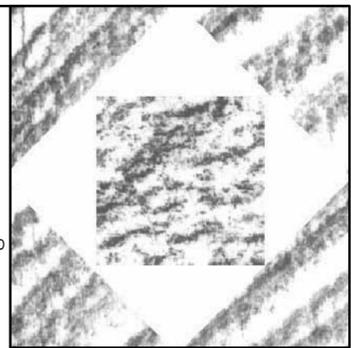
REFRIGERANT LINE SIZES			
UNIT	LIQUID	SUCTION	REMARKS
CC 1	3/8"	5/8"	
CC 2	3/8"	7/8"	

REFRIGERANT PIPING LEGEND	
SYMBOL	DESCRIPTION
	EXPANSION VALVE. SEE DETAIL 1 (M502)
	MOISTURE INDICATING SIGHT GLASS
	FLEXIBLE CONNECTION
	FILTER DRIER
	PIPE SUPPORT. SEE DETAILS 3 (M502) 4 (M502)
	EXTERIOR PIPE SUPPORT. SEE DETAIL 2 (M502)
	TRAP. ONE PIECE FACTORY FABRICATED
	DIRECTION OF SLOPE DOWN
	SUCTION LINE
	LIQUID LINE



1 REFRIGERANT COIL CONNECTION DETAIL
SCALE NONE

NOTES:
1. THERMOSTATIC BULB TO BE AS CLOSE TO COIL AS POSSIBLE NOT ALLOWED ON VERTICAL LINES.
2. EQUALIZING LINE SHALL BE CONNECTED IN STRAIGHT SECTION OF SUCTION LINE AFTER THERMAL BULB. (NOT ALLOWED ON VERTICAL LINES.)



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**REFRIGERANT
DETAILS**

M502
SHEET 10 OF 13

COOLING COIL SCHEDULE ① ②							
MARK	MIN REQ'D CAP		COND ENT EVAP		CFM	MAX ③ PR. DR. IN W. G.	REMARKS
	TOT. MBH	SENS MBH	DB DEG F	WB DEG F			
CC 1	20.5	19.0	80	62	800	0.18	④
CC 2	44.8	40.4	78	62	1600	0.21	④
○							

- ① COMPLETE WITH FACTORY COIL BOX AND COIL.
- ② SEE SPECIFICATIONS FOR APPROVED MANUFACTURERS.
- ③ WET COIL.
- ④ VALUES GIVEN ARE AT 95 DEG F OUTDOOR AIR TEMPERATURE.

NOTES:
1. THE MECHANICAL CONTRACTOR SHALL VERIFY MOTOR VOLTAGES WITH THE ELECTRICAL DRAWINGS BEFORE ORDERING MOTORIZED EQUIPMENT AND CONTROLS.

AIR COOLED CONDENSING UNIT SCHEDULE ① ③ ④				
MARK	MIN ② NOMINAL SIZE	COMPRESSOR RATED LOAD AMPS	FAN FULL LOAD AMPS	REMARKS
CU 1	2	13.5	1.2	⑤
CU 2	4	19.9	1.2	⑤
○				

- ① REFRIGERANT R-410A.
- ② AT DESIGN CONDITIONS AND 105 DEGREES ENTERING AIR TEMPERATURE TO CONDENSER.
- ③ CONDENSING UNIT MARKS CORRESPOND WITH COOLING COIL AND FURNACE MARKS.
- ④ SEE SPECIFICATIONS FOR APPROVED MANUFACTURERS.
- ⑤ ELECTRICAL CHARACTERISTICS - COMPRESSOR: 208V/1 PHASE/60 HZ.

FURNACE SCHEDULE ② ③							
MARK	INPUT BTU/HR	OUTPUT ① BTU/HR	CFM	EXT S. P. IN W. C.	MOTOR		REMARKS
					HP	SPEED	
F 1	60,000	56,000	800	0.70	1/3	MED	④ ⑤
F 2	100,000	94,000	1600	0.70	3/4	MED/HIGH	④ ⑤
○							

- ① SEA LEVEL RATING.
- ② FURNACE MARKS CORRESPOND COOLING AND CONDENSING UNITS.
- ③ SEE SPECIFICATIONS FOR OTHER APPROVED MANUFACTURER.
- ④ ELECTRICAL CHARACTERISTICS - MOTOR: 115V/1 PHASE/60 HZ.
- ⑤ SET FAN MOTOR SPEED TAP TO LOWEST POSSIBLE SETTING REQUIRED TO ACHIEVE DESIGN AIR FLOW.

CONTROL DAMPER SCHEDULE				
MARK	SIZE, INCHES	AIRFLOW, CFM	DUTY	REMARKS
CD 1	96 X 84	25,000	RELIEF AIR	① ②
CD 2	8' DIA.	185	OUTSIDE AIR	
CD 3	12' DIA.	700	OUTSIDE AIR	
○				

- ① INTERLOCK TO OPEN IF EITHER EC-1 AND/OR EC-2 ARE RUNNING.
- ② PROVIDE TIGHT CLOSED OFF EDGE SEALS.

EVAPORATIVE COOLER SCHEDULE ① ②												
MARK	AIRFLOW, CFM	EXTERNAL STATIC, INCHES W. G.	MOTOR HP	PUMP GPM	HEAD, FT.	WATTS	ELECTRICAL REQUIREMENTS				OPERATING WEIGHT	ARCTIC CIRCLE MODEL
							VOLTS	HZ	PHASE	AMPS		
EC 1	10,000	0.30	2	5	5	80	230	60	3	6.8	1,250 LBS	ED213
EC 2	10,000	0.30	2	5	5	80	230	60	3	6.8	1,250 LBS	ED213
○												

- ① UNIT IS DOWN DISCHARGE.
- ② PROVIDE WITH 6 POSITION CONTROL SWITCH.

OUTDOOR DIRECT FIRED MAKE UP AIR UNIT ①											
MARK	CFM	EXTERNAL STATIC IN. WC	HEATING REQUIREMENT			POWER REQUIREMENT				OPERATING WEIGHT	GREENHECK MODEL NUMBER
			INPUT MBH	OUTPUT MBH	EAT	VOLTS	HZ	PH	HP		
MAU 1	9500	0.75'	608	560	6 DEG.	208	60	3	7-1/2	2400 LBS.	DGX
○											

- ① UNIT SHALL BE PROVIDED WITH
- A) FRESH AIR HOOD.
- B) DISCHARGE AIR TEMPERATURE CONTROL.
- C) ALUMINUM MESH FILTER SECTION.
- D) EVAPORATIVE PAD SECTION.
- E) BLOWER SECTION.
- F) HEAT EXCHANGER SECTION.
- G) FRONT DISCHARGE.
- H) VFD FOR 2-SPEED FAN OPERATION. HIGH SPEED = 9,500 CFM, LOW SPEED = 4,500 CFM.
- I) ROOF CURB TO BE MOUNTED ON CONCRETE PAD.
- J) CONTROL PANEL TO OPERATE VFD, MAU-1, REF-1, REF-2, VEF-1.

RADIANT HEATING UNIT SCHEDULE ①								
MARK	CAPACITY BTU/HR	TUBE DIA.	ELECTRICAL REQUIREMENTS				CONTROL	ROBERTS GORDON
			VOLTS	HZ	PHASE	CURRENT AMPS		
RH 1	80,000	4"	120	60	1	5	PROGRAMMABLE LINE VOLTAGE THERMOSTAT	VANTAGE II CTH2-80
○								

- ① BOTTOM OF UNIT SHALL BE 28 FEET ABOVE FINISH FLOOR.

ROOF UPBLAST EXHAUST FAN SCHEDULE ①							
MARK	CFM	EXT. STATIC	BHP	MOTOR HP	REMARKS	OPERATING WEIGHT	GREECHECK MODEL
REF 1	2250	0.375	0.62	3/4 ②	BELT DRIVE	100 LBS	141
REF 2	2250	0.375	0.62	3/4 ③	BELT DRIVE	100 LBS	141
○							

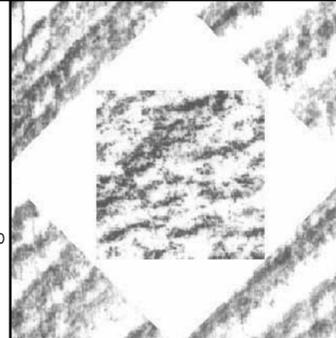
- ① PROVIDE WITH BACKDRAFT DAMPER.
- ② PROVIDE WITH ROOF CURB.
- ③ POWER SHALL BE 120/60/1.

CEILING EXHAUST FAN SCHEDULE ① ②				
MARK	MIN SCFM	STATIC PRESSURE ③ IN W. G.	MAX. WATTS	REMARKS
CEF 1	185	0.25	75	
○				

- ① VOLTAGE IS 115/1 PHASE/60.
- ② CONTROL BY DIVISION 26.
- ③ STATIC PRESSURE GIVEN AT SEA LEVEL.

VEHICLE EXHAUST FAN SCHEDULE ②					
MARK	MIN. ① C. F. M.	STATIC PRESSURE IN W. G.	HP ①	OPERATING WEIGHT	REMARKS
VEF 1	5,000	5.0	7-1/2	1,200 LBS	
○					

- ① VOLTAGE IS 230/3 PHASE/60.
- ② CONTROL BY DIVISION 23.
- ③ UTILITY SET STYLE FAN.



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SHEET TITLE
MECHANICAL SCHEDULES

M601
SHEET 11 OF 13

DIFFUSER SCHEDULE ① ②									
MARK	TYPE	SERVICE	CEILING TYPE	NECK SIZE, INCHES	CFM RANGE	BLOW	PATTERN	MODEL	REMARKS
D-1	DUCT MTD	SUPPLY	NONE	48 X 48	9,500-10,000	4-WAY		TITUS TDCA	③ ④ ⑤
D-2	CEILING	SUPPLY	HARD	15 X 6	325	1-WAY		TITUS TDC	
D-3	CEILING	SUPPLY	LAY-IN	8' DIA.	130-240	2-WAY		TITUS TDC	
D-4	CEILING	SUPPLY	HARD	6' DIA.	125	2-WAY		TITUS TDC	
D-5	CEILING	SUPPLY	HARD	8' DIA.	130-240	4-WAY		TITUS TDC	
D-6	CEILING	SUPPLY	LAY-IN	10' DIA.	245-335	4-WAY		TITUS TDC	

- ① MAXIMUM NC=26 CFM UNLESS OTHERWISE NOTED.
- ② FINISH SHALL BE BAKED ENAMEL WITH COLOR AS SELECTED BY ARCHITECT.
- ③ MAXIMUM NC=39.
- ④ PROVIDE WITH ADJUSTABLE VERTICAL DISCHARGE.
- ⑤ ALUMINUM CONSTRUCTION.

GRILLE AND LOUVER SCHEDULE								
MARK	TYPE	SERVICE	TYPE	CFM RANGE	FACE SIZE, INCHES	NECK SIZE, INCHES	MODEL	REMARKS
R-1	CEILING	RETURN	LAY-IN	800	24 X 24	22 X 22	TITUS 355	
R-2	CEILING	RETURN	LAY-IN	520	24 X 24	12' DIA.	TITUS 355	
R-3	CEILING	RETURN	HARD	125	10 X 10	8 X 8	TITUS 355	
R-4	CEILING	RETURN	HARD	260	12 X 12	8' DIA.	TITUS 355	
E-1	CEILING	EXHAUST	WALL MTD.	350	14 X 10	12 X 8	TITUS 355	③
DG-1	DOOR	TRANSFER	DOOR	0-350	24 X 12	22 X 10	TITUS T700	④
L-1	WALL	RELIEF	N/A	25,000	96	84	AERDLITE	
L-2	WALL	EXHAUST	N/A	700	14 X 26	12 X 24	AERDLITE	

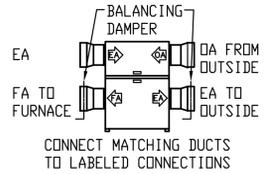
- ① MAXIMUM NC=26 @ MAXIMUM CFM.
- ② FINISH SHALL BE BAKED ENAMEL WITH COLOR AS SELECTED BY ARCHITECT.
- ③ PROVIDE WITH OPPOSED BLADE DAMPER IN FACE.
- ④ CUT DOOR AND INSTALL GRILLE.

VEHICLE EXHAUST HOSE AND NOZZLE SCHEDULE						
MARK	AIRFLOW, CFM	PRESSURE DROP, INCHES WC	LENGTH, FT	DIAMETER, INCHES	NOZZLE ①	REMARKS
VH 1	1,250	2.9	16	8	GALVANIZED STEEL	

- ① PROVIDE DAMPER WITH NOZZLE.
- ② RATING SHALL BE FOR FUMES UP TO 1,200 DEG F.
- ③ BASED ON NEDERMAN NFC-6.5 HOSE.
- ④ MAXIMUM NEGATIVE PRESSURE RATING OF 16 IN. W.G.

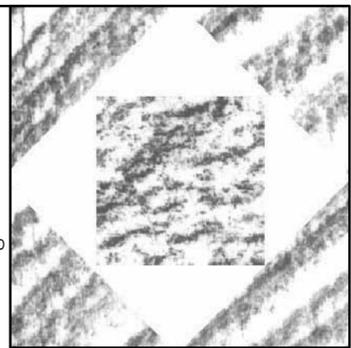
ENERGY RECOVERY VENTILATOR ① ② ③						
MARK	CFM	ELECTRICAL				REMARKS
		WATTS	VOLTS	HERTZ	PHASE	
ERV 1	700	2064	115	60	1	

- ① RENEWAIRE MODEL HE1XINV
- ② MINIMUM EXTERNAL STATIC PRESSURE OF 0.40" AT CFM INDICATED.
- ③ SEA LEVEL RATING.



GENERAL NOTES:
 1. THE MECHANICAL CONTRACTOR SHALL VERIFY MOTOR VOLTAGES WITH THE ELECTRICAL DRAWINGS BEFORE ORDERING MOTORIZED EQUIPMENT AND CONTROLS. MOTOR NAME PLATE VOLTAGE SHALL BE NEMA STANDARD 200 VOLT FOR 208 VOLT THREE PHASE SYSTEM AND SHALL BE NEMA STANDARD 230 VOLT FOR 240 VOLT THREE PHASE OR SINGLE PHASE SYSTEM. STARTER HEATERS INSTALLED SHALL BE COORDINATED WITH THE NAME PLATE DATA.

2. S. C. F. M. LISTED IS STANDARD AIR.



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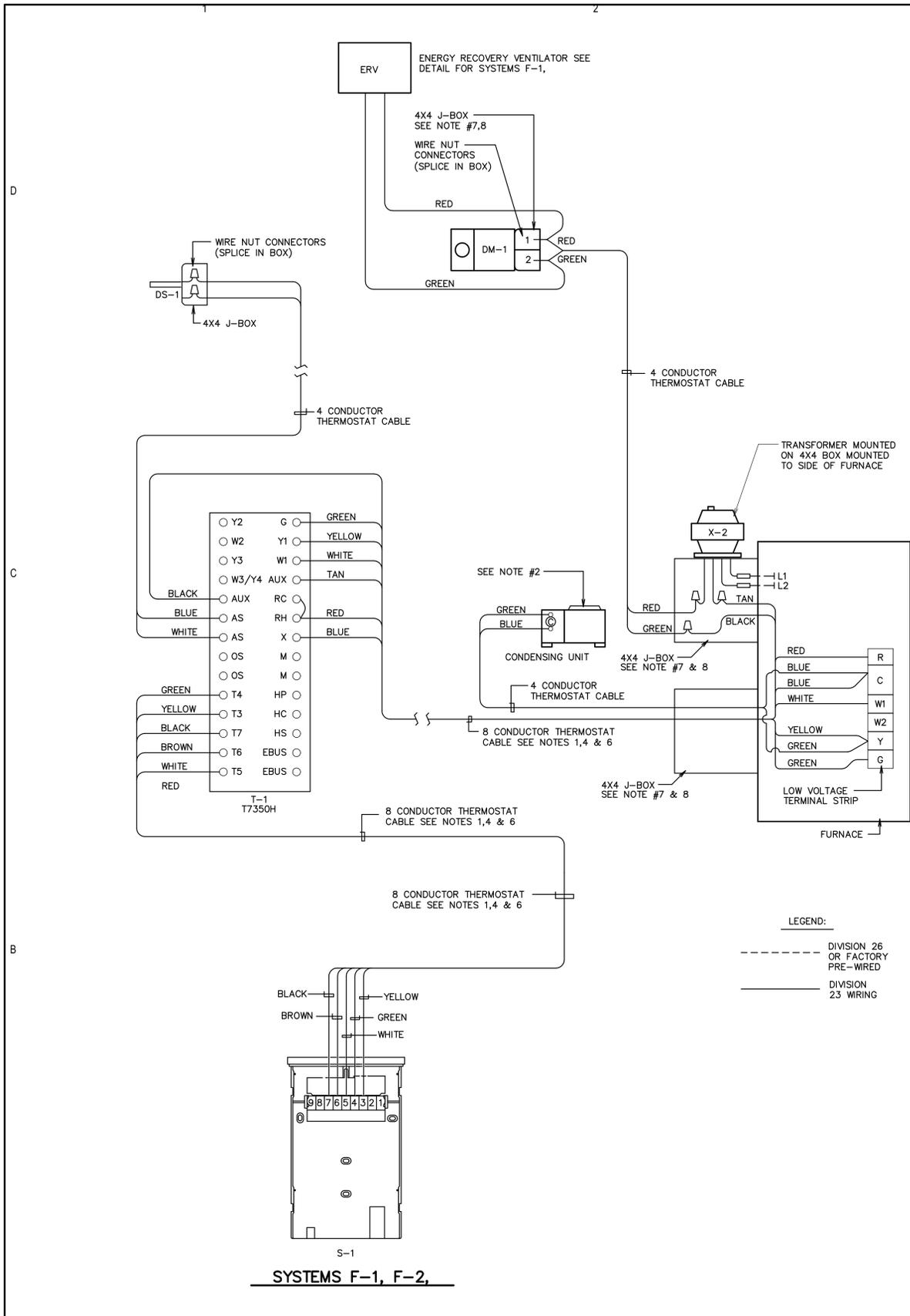
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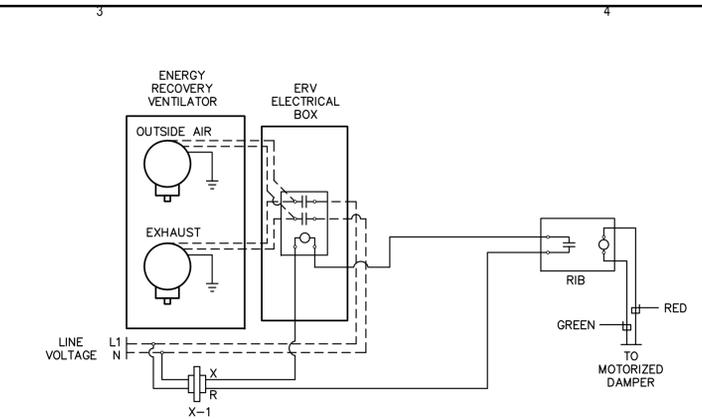
SHEET TITLE
**MECHANICAL
 SCHEDULES**

M602
 SHEET 12 OF 13

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WIRING DIAGRAM CLASSROOM SYSTEM
SYSTEMS: F-1, F-2



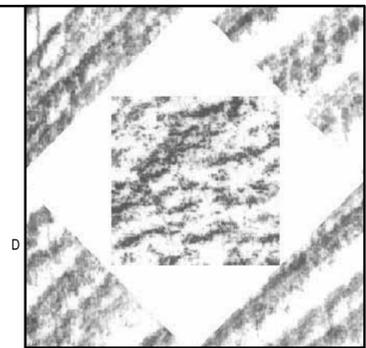
(A) ENERGY RECOVERY VENTILATOR WIRING
SYSTEMS: F-1

- SYMBOLS**
- (T) THERMOSTAT/SUBBASE OUTLET (DIV 23). PROVIDE J-BOX MOUNT TOP OF THERMOSTAT 5'-6" ABOVE FLOOR.
 - (S) REMOTE SENSOR OUTLET (DIV 26)
 - CD COMMAND DISPLAY (DIV 23) SEE DETAIL B/ME1.1
 - RP-1 RELAY PANEL (DIV 23) MOUNT 5'-0" TO BOTTOM OF CABINET
 - RP-5 RELAY PANEL (DIV 23) MOUNT 5'-0" TO BOTTOM OF CABINET

- NOTES:**
1. THERMOSTAT CABLE-- 4, 8 OR 12 CONDUCTOR-- 18 AWG SOLID COPPER WIRE INSULATED WITH HIGH DENSITY POLYETHYLENE. CONDUCTORS PARALLEL. ENCLOSED IN BROWN PVC JACKET. (NO 22 AWG CABLE ALLOWED).
 2. IF CONDENSING UNITS HAVE THEIR OWN POWER SUPPLY IT MAY BE NECESSARY TO ADD ADDITIONAL RELAYS IN CONDENSING UNIT TO PROPERLY INTERFACE CONTROLS.
 3. USE WIRE NUT CONNECTORS FOR SPLICING CONDUCTORS IN SPECIFIED LOCATIONS. AND TYTON TYPE CRIMP CONNECTORS FOR TERMINAL CONNECTIONS. NO TERMINAL CONNECTORS REQUIRED AT THERMOSTAT OR SENSOR.
 4. DO NOT RUN ANY OTHER WIRING IN THIS CONDUIT EXCEPT THERMOSTAT CABLE.
 5. VERIFY THAT FURNACE FAN SPEED CONTROL WIRING IS SET TO MATCH SCHEDULE SHEET AND THAT FAN OPERATES AT COOLING SPEED ONLY.
 6. DO NOT SPLICE WIRE IN RUNS FROM SENSOR TO THERMOSTAT, THERMOSTAT TO FURNACE, AND THERMOSTAT TO DISCHARGE AIR SENSOR.
 7. PROVIDE CHASE NIPPLE W/PLASTIC BUSHING WHEN ATTACHING J-BOX TO EQUIPMENT.
 8. PROVIDE CABLE CLAMP SO THAT CABLES CANNOT BE PULLED OUT OF J-BOX.
 9. BOXES FOR REMOTE SENSOR OUTLETS SHALL BE 2"x4" WITH LONG DIMENSION VERTICAL.
 10. J-BOXES IN MECHANICAL AREAS SHALL BE 4"x4".
 11. CONDUIT TO BE 1/2" UNLESS NOTED OTHERWISE.
 12. TEMPERATURE CONTROL WIRING THAT IS NOT IN CONDUIT SHALL BE RUN PARALLEL AND PERPENDICULAR TO BUILDING CONSTRUCTION LINES. SEE SPECIFICATIONS FOR ACCEPTABLE FASTENING METHODS AND MAXIMUM ALLOWABLE SPACING BETWEEN FASTENERS.
 13. TEMPERATURE CONTROL WIRING THAT IS NOT IN CONDUIT SHALL BE LABELED. PROVIDE A LABEL AT ALL POINTS WHERE TEMPERATURE CONTROL WIRING ENTERS CONDUIT AND AT CONNECTIONS TO DEVICES. SEE SPECIFICATIONS FOR LABEL TYPE AND SIZE.

CONTROL EQUIPMENT		
MARK	DESCRIPTION	CAT. NO. (1)
T-1	THERMOSTAT	T7350H1009
S-1	REMOTE TEMPERATURE SENSOR SELECTABLE 10K OHM OR 20K OHM	T7771A1005
DS-1	DISCHARGE AIR SENSOR	C7041B2005
DM-1	DAMPER MOTOR TWO POSITION	MS8105A1008
X-2	TRANSFORMER 120V/24V 50VA	AT150F1002
G-2	NOT USED	

(1) ALL CATALOG NUMBERS SHOWN ARE HONEYWELL UNLESS NOTED OTHERWISE.



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**CAMP WILLIAMS UTES
EAST REMODEL DESIGN**

UTAH NATIONAL GUARD
CAMP WILLIAMS

MARK	DATE	DESCRIPTION

DATE:	30 AUGUST 2010
AGENCY PROJECT NO:	10207480
HFSA PROJECT NO:	1022.01
CAD DWG FILE NO:	10089
DRAWN BY:	BDA
CHECKED BY:	HLA
DESIGNED BY:	HLA
DWG TYPE:	MECHANICAL
ARCHITECTURAL PHASE:	CONSTRUCTION DOCUMENTS
SHEET TITLE	

**MECHANICAL
CONTROLS**

ME101

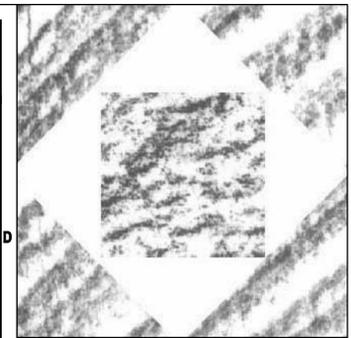
SHEET 13 OF 13

REFERENCE NOTES:

- ① EXISTING DEVICES TO BE REMOVED. TRACE AND REMOVE CONDUITS BACK TO ORIGIN.

DEMOLITION NOTES:

1. IN THE EXISTING SPACE TO BE RENOVATED, THE CONTRACTOR SHALL REMOVE ALL LIGHT FIXTURES, SWITCHES, WIRING, WIRING DEVICES, CONDUITS, FIRE ALARM DEVICES, SPEAKERS, VOLUME CONTROLS, ETC. AS REQUIRED WHETHER OR NOT SHOWN ON THE DRAWINGS. COORDINATE WITH THE GENERAL CONTRACTOR PRIOR TO ANY DEMOLITION WORK AND REINSTALL DEVICES ON THE NEW CEILING IF NECESSARY.
2. ALL MATERIALS THAT ARE TO BE REMOVED FROM THE PREMISES SHALL BE RETURNED TO THE OWNER. MATERIALS WHICH THE OWNER DECIDES NOT TO KEEP SHALL BE SALVAGED AND REMOVED FROM THE SITE BY THE CONTRACTOR.
3. ALL CONCEALED CONDUITS THAT CANNOT BE REMOVED SHALL BE CUT FLUSH WITH THE FINISHED SURFACES AND CAPPED OFF AFTER THE WIRING HAS BEEN DISCONNECTED AT THE PANEL AND REMOVED FROM THE CONDUIT.
4. IN AREAS WHERE CIRCUIT CONTINUITY IS INTERRUPTED, BUT MUST BE MAINTAINED BECAUSE OF THE NATURE OF THE FACILITY, MAKE ALL THE NECESSARY MODIFICATIONS TO THE CIRCUITS IN ORDER TO MAINTAIN THE CIRCUIT'S INTEGRITY.



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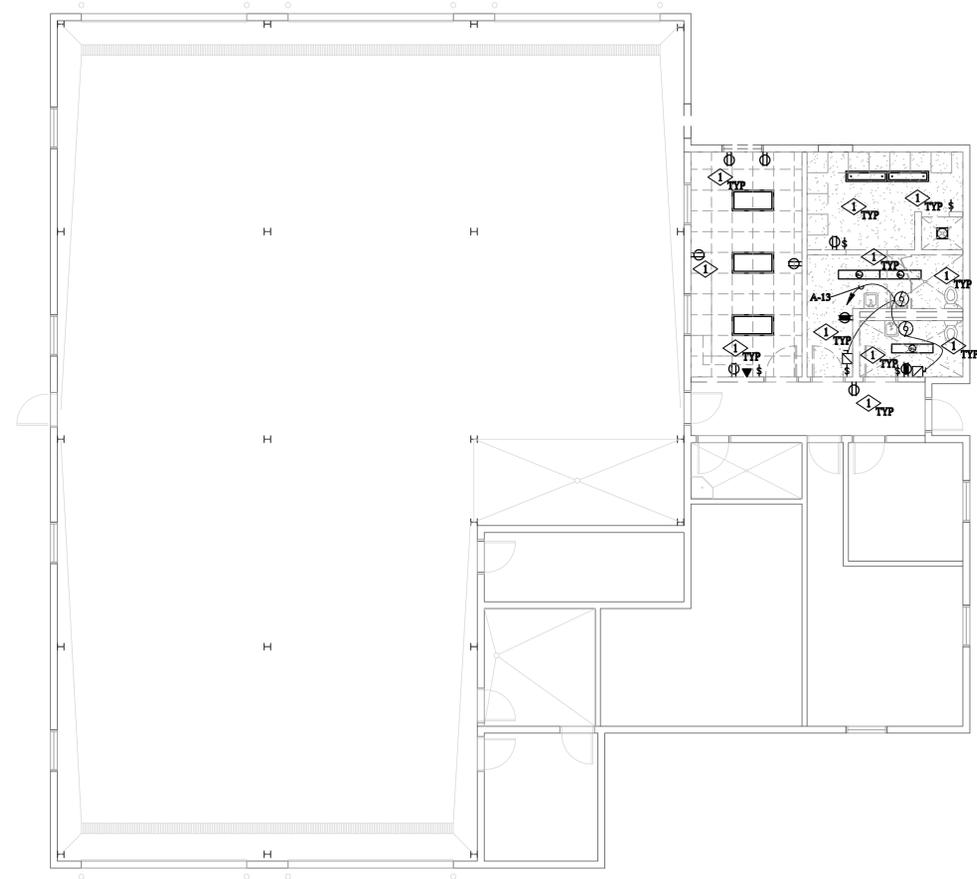
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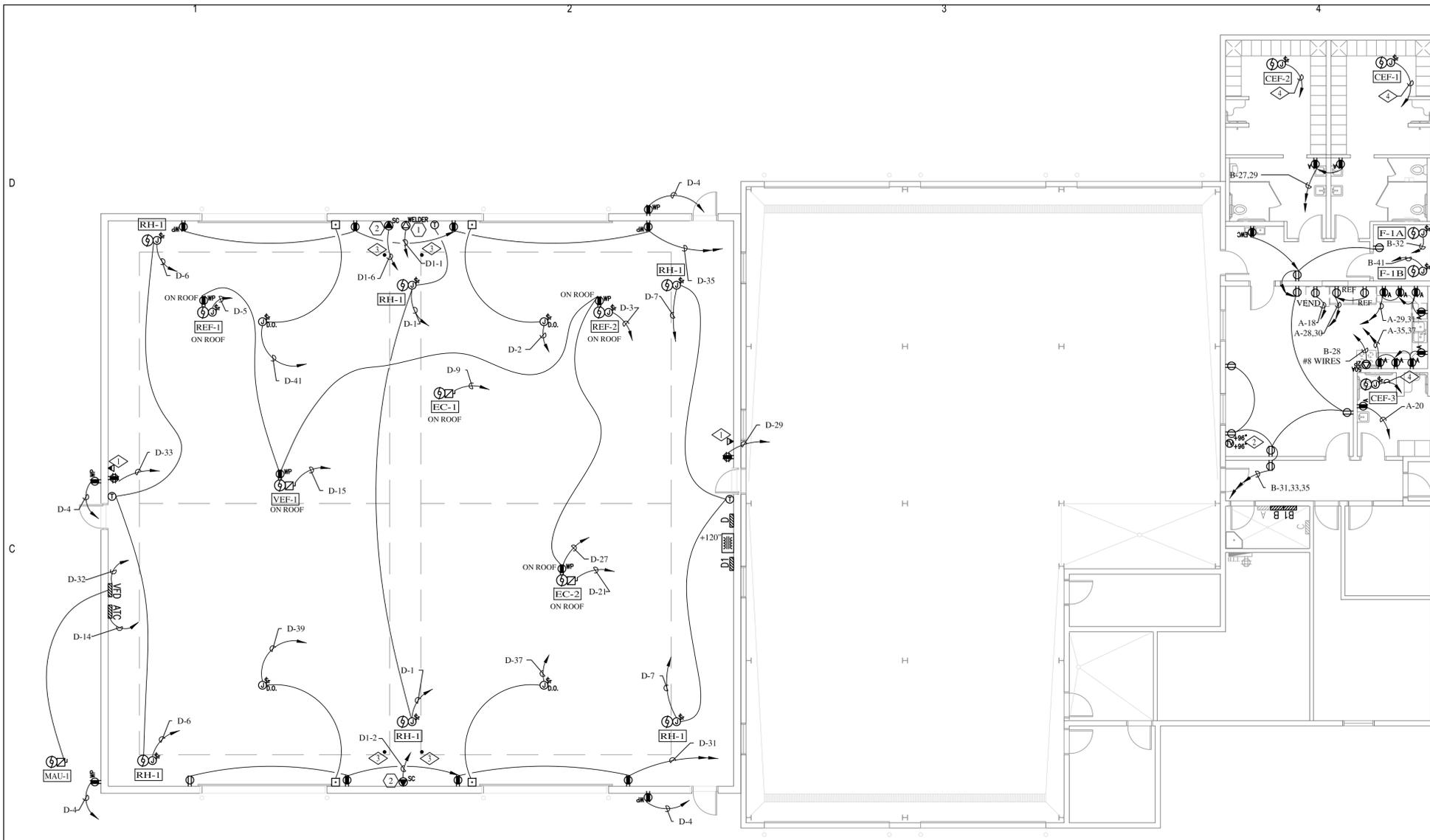
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**MAIN LEVEL
 FLOOR PLAN -
 DEMOLITION**

ED-101
 SHEET 2 OF 4



MAIN LEVEL FLOOR PLAN - DEMOLITION
 SCALE 1/8"=1'-0"
 NORTH



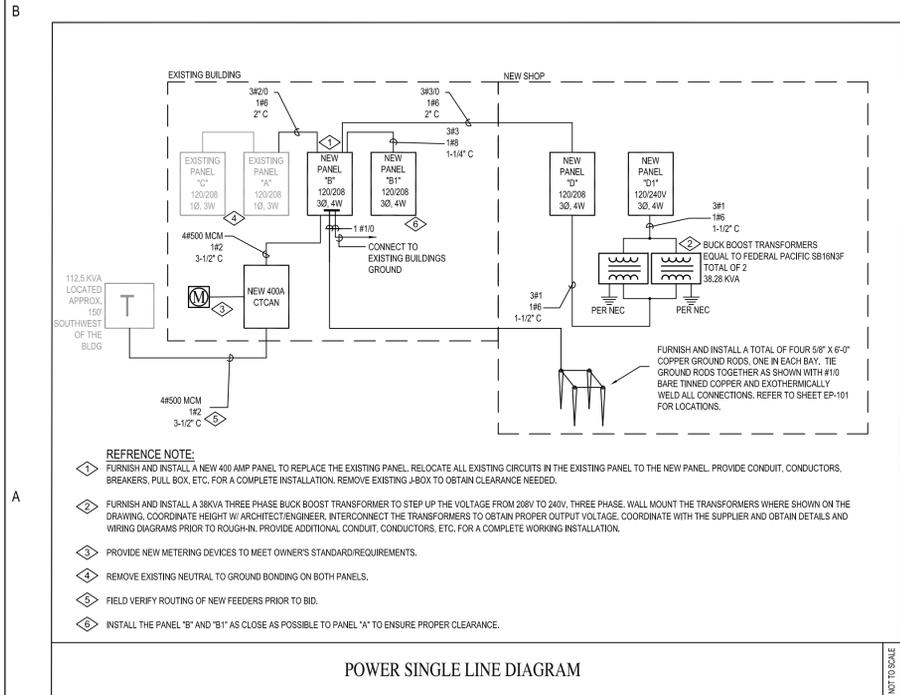
REFERENCE NOTES: POWER

- FURNISH AND INSTALL A 4"X4"X2-1/8" J-BOX IN THE APPROXIMATE LOCATION SHOWN FOR VOICE/DATA. RUN A 3/4" CONDUIT WITH TWO CAT6 CABLES FROM THE J-BOX TO THE TT.B. MAKE FINAL CONNECTION. COORDINATE WITH THE OWNER/ARCHITECT FOR EXACT LOCATION PRIOR TO ROUGH-IN. COORDINATE THIS WORK WITH MIKE HANSEN, (801) 716-9000, PRIOR TO ROUGH-IN.
- PROVIDE J-BOX AND RUN 3/4" CONDUIT TO NEAREST ACCESSIBLE CEILING WITH PULL STRING FOR TV. INSTALL OUTLET NEXT TO J-BOX. COORDINATE WITH ARCHITECT/ OWNER FOR EXACT LOCATION AND HEIGHT.
- FURNISH AND INSTALL AN AIRCRAFT GROUNDING RECEPTACLE EQUAL TO STORM COPPER COMPONENTS YGT275 FLUSH IN THE CONCRETE. PROVIDE A 5/8"X6" GROUND ROD AND INSTALL PER MANUFACTURERS INSTRUCTIONS. REFER TO POWER SINGLE LINE DIAGRAM. COORDINATE THIS WORK AND EXACT LOCATION WITH OWNER.
- TIE THE FANS TO THE LIGHTING CIRCUIT IN THE ROOM. THE FANS SHALL BE CONTROLLED BY THE MOTION SENSOR IN THE ROOM.

SPECIAL NOTE

- INSTALL ALL OUTLETS IN THE SHOP AREA AT 24" AFF.

MAIN LEVEL FLOOR PLAN - POWER
SCALE 1/8"=1'-0"
NORTH



REFERENCE NOTE:

- FURNISH AND INSTALL A NEW 400 AMP PANEL TO REPLACE THE EXISTING PANEL. RELOCATE ALL EXISTING CIRCUITS IN THE EXISTING PANEL TO THE NEW PANEL. PROVIDE CONDUIT, CONDUCTORS, BREAKERS, PULL BOX, ETC. FOR A COMPLETE INSTALLATION. REMOVE EXISTING J-BOX TO OBTAIN CLEARANCE NEEDED.
- FURNISH AND INSTALL A 380V/3 PHASE BUCK BOOST TRANSFORMER TO STEP UP THE VOLTAGE FROM 208V TO 240V. THREE PHASE. WALL MOUNT THE TRANSFORMERS WHERE SHOWN ON THE DRAWING. COORDINATE HEIGHT W/ ARCHITECT/ENGINEER. INTERCONNECT THE TRANSFORMERS TO OBTAIN PROPER OUTPUT VOLTAGE. COORDINATE WITH THE SUPPLIER AND OBTAIN DETAILS AND WIRING DIAGRAMS PRIOR TO ROUGH-IN. PROVIDE ADDITIONAL CONDUIT, CONDUCTORS, ETC. FOR A COMPLETE WORKING INSTALLATION.
- PROVIDE NEW METERING DEVICES TO MEET OWNERS STANDARD REQUIREMENTS.
- REMOVE EXISTING NEUTRAL TO GROUND BONDING ON BOTH PANELS.
- FIELD VERIFY ROUTING OF NEW FEEDERS PRIOR TO BID.
- INSTALL THE PANEL "B" AND "B1" AS CLOSE AS POSSIBLE TO PANEL "A" TO ENSURE PROPER CLEARANCE.

POWER SINGLE LINE DIAGRAM

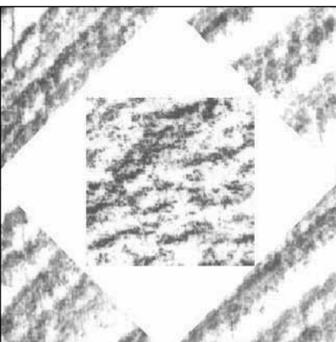
MECHANICAL EQUIPMENT SCHEDULE											
NAME OF MECHANICAL EQUIPMENT	AIR COOLED COMPENSATING UNIT	FURNACE	CEILING EXHAUST FAN	CEILING EXHAUST FAN	VEHICLE EXHAUST FAN	ROOF UPRAJEST EXHAUST FAN	RADIANT HEATING UNIT	OUTDOOR MAKE UP AIR MAKE UP AIR UNIT	EVAPORATIVE COOLER		
EQUIPMENT NO.	CU-1A,1B	F-1A,1B	CEF-1,2	CEF-3	VEF-1	REF-1,2	RH-1	MAU-1	EC-1,2		
RATING/WATTS	208	372 W	75 W	7.5 HP	7.5 HP	120	208	208	208		
VOLTAGE	208	120	120	120	208	120	120	208	208		
PHASE	1	1	1	1	3	1	1	3	3		
AMPS	1.2	13.8	3.1	1	25.3	13.8	5	25.3	8.8		
WIRE SIZE	2 # 12	2 # 12	2 # 12	2 # 12	3 # 10	2 # 12	2 # 12	3 # 10	3 # 12		
GROUND WIRE	1 # 12	1 # 12	1 # 12	1 # 12	1 # 10	1 # 12	1 # 12	1 # 10	1 # 12		
CONDUIT SIZE	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"		
FUSE DISC. SW.	30				60			60	30		
TYPE RFI FUSES	20				35			35	20		
BREAKER	20	20	20	20	35	20	20	35	20		
NOTES	1	2	2	2	1	2	2.5	1.4	1		

NOTES:

- STARTER IS FURNISHED WITH THE UNIT. PROVIDE SITE DISCONNECT.
- PROVIDE THERMAL OVERLOAD SWITCH.
- PROVIDE DUPLEX OUTLETS.
- PROVIDE A DISCONNECT SWITCH W/ ALUX CONTACT. TIE ALUX CONTACT TO CORRESPONDING VFD. COORDINATE W/ VFD SUPPLIER FOR MORE INFO.
- RLA 2#12, 1#12 GND WIRING TO THE THERMOSTAT FOR CONTROL.

EQUIPMENT SCHEDULE													
EQUIP. NO.	EQUIPMENT NAME	EQUIPMENT DESCRIPTION	ELECTRICAL CHARACTERISTIC									COMMENTS	
			VOLTS	PHASE	AMPS	KW	MINIMUM WIRE	MINIMUM CONDUIT SIZE	DISC SWITCH	RFI FUSE	BREAKER SIZE		QUANTITY (VERIFY)
(1)	WELDER		230	3	74.00		3 # 4	1 # 8	1"		95		NOTE 1
(2)	STEAM CLEANER		230	1	39.50		2 # 8	1 # 10	3/4"		50		NOTE 1

1. PROVIDE APPROPRIATE OUTLET TYPE.



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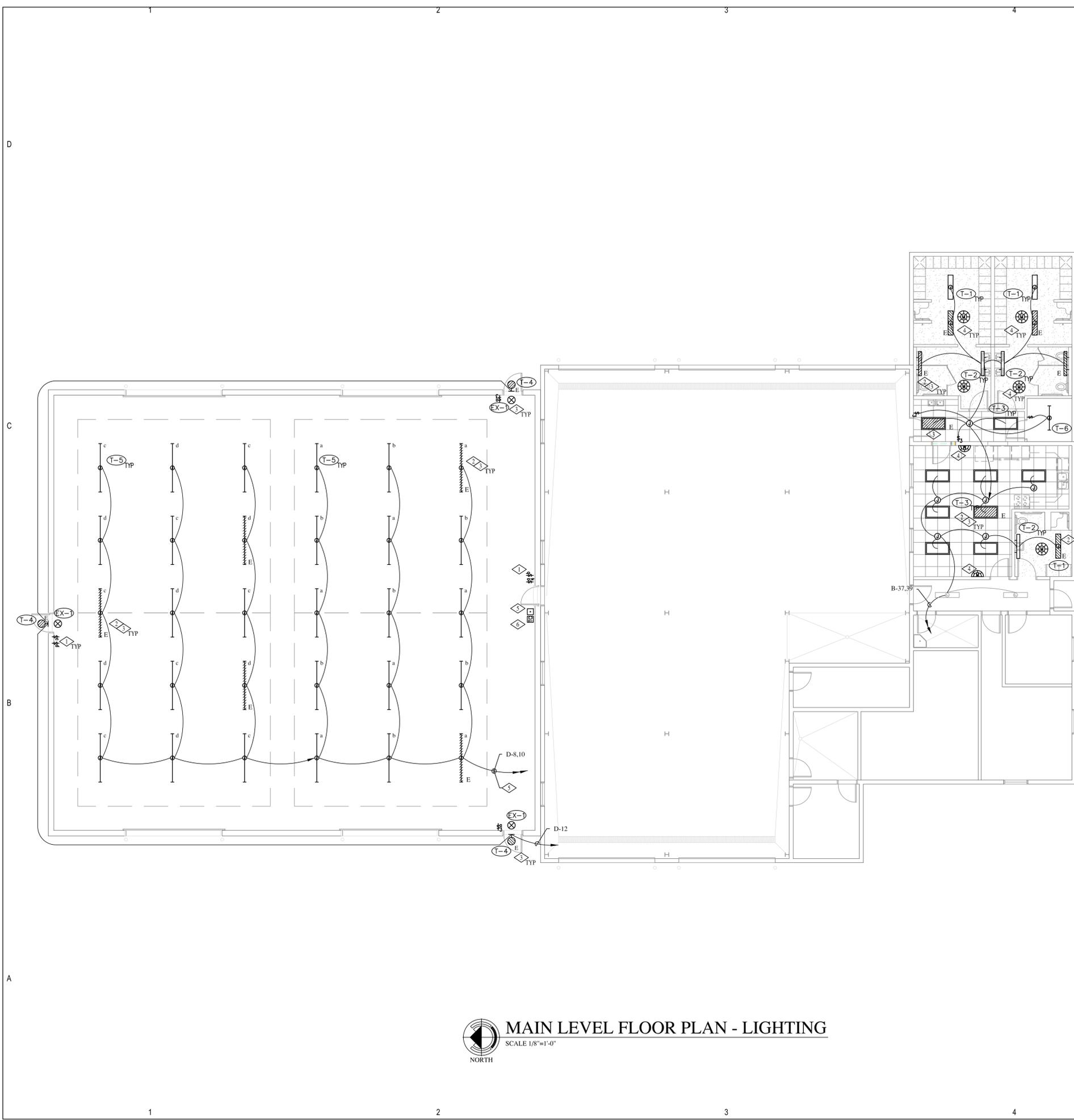
**CAMP WILLIAMS UTES
EAST REMODEL DESIGN**

UTAH NATIONAL GUARD
CAMP WILLIAMS

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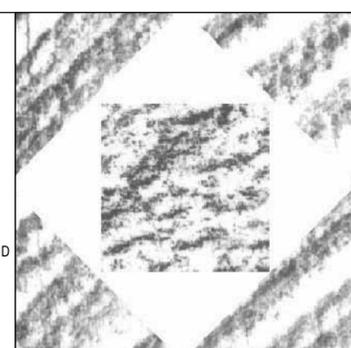
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**MAIN LEVEL
FLOOR PLAN -
POWER**
EP-101
SHEET 3 OF 4



REFERENCE NOTES: LIGHTING

- 1. TIE ALL FIXTURES INDICATED WITH A LOWER CASE LETTER TO ITS CORRESPONDING SWITCHES). PROVIDE CONDUITS, CONDUCTORS, LIGHTING CONTACTORS, ETC. FOR A COMPLETE INSTALLATION.
- 2. EMERGENCY LIGHT FIXTURES INDICATED WITH THE LETTER "E" SHALL BE PROVIDED WITH A SEPARATE BALLAST FOR THE CENTER LAMP. ONE LAMP WITH 1100 LUMENS IN THE LIGHT FIXTURE SHALL BE TIED TO THE EMERGENCY BATTERY PACK AND TURN ON WHEN THE COMMERCIAL POWER FAILS REGARDLESS OF THE POSITION OF THE CONTROL SWITCH. ALL THE LAMPS IN THE FIXTURE SHALL BE CONTROLLED BY THE INDICATED SWITCH. PROVIDE CONDUITS, CONDUCTORS, ETC. FOR A COMPLETE INSTALLATION. PROVIDE AN UNSWITCHED LIGHTING CIRCUIT TO THE BATTERY PACK.
- 3. TIE EMERGENCY LIGHT FIXTURES AND EXIT SIGNS TO AN UNSWITCHED EMERGENCY LIGHTING CIRCUIT. PROVIDE CONDUITS, CONDUCTORS, RELAY BALLASTS, ETC. FOR A COMPLETE INSTALLATION.
- 4. FURNISH AND INSTALL A WALL/CEILING MOUNTED DUAL-TECHNOLOGY OCCUPANCY SENSOR TO CONTROL THE LIGHT FIXTURES IN THE ROOM. SET THE TIME DELAY FOR 30 MINUTES. WATT STOPPER, LITHONIA, LEVITON, & SENSOR SWITCH ARE THE APPROVED MANUFACTURERS.
- 5. RUN ALL THE LIGHTING CIRCUITS THROUGH LIGHTING CONTACTORS. FURNISH AND INSTALL AN OVER-RIDE SWITCH IN THE APPROXIMATE LOCATION SHOWN AND TIE TO THE LIGHTING CONTACTORS. PROVIDE CONDUITS, CONDUCTORS, ETC. FOR A COMPLETE INSTALLATION. COORDINATE WITH THE OWNER FOR THE EXACT LOCATIONS OF OVER-RIDE SWITCH.
- 6. FURNISH AND INSTALL A 2 ZONE DIGITAL ASTRONOMICAL TIME CLOCK WITH BATTERY BACKUP IN THE APPROXIMATE LOCATION SHOWN TO CONTROL THE INTERIOR LIGHTING. PROGRAM THE TIME CLOCK AS PER OWNER'S REQUIREMENT. PROVIDE CONDUIT, CONDUCTORS, ETC. FOR A COMPLETE INSTALLATION. THE TIME CLOCK SHALL BE EQUAL TO LEVITON EZMAX-RE4BD-104 (120VOLT).



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**MAIN LEVEL
 FLOOR PLAN -
 LIGHTING**

EL-101
 SHEET 4 OF 4

MAIN LEVEL FLOOR PLAN - LIGHTING
 SCALE 1/8"=1'-0"
 NORTH