

CODE ANALYSIS

APPLICABLE CODES

Code	Year	Code	Year
International Building Code	2003	National Electrical Code	2003
International Mechanical Code	2003	Uniform Code for Building Conservation	2003
International Plumbing Code	2003	ADA Accessibility Guidelines	ICC/ANSI 117.1.1998
International Fire Code	2003		
International Energy Conservation Code	2003		

- A. Occupancy and Group: UNLIMITED COVERED MALL BUILDING
 Change in Use: Yes No Mixed Occupancy: Yes No
 Special Use and Occupancy (e.g. High Rise, Covered Mall): UNLIMITED MALL BUILDING
- B. Seismic Design Category: D Design Wind Speed: 90 mph
- C. Type of Construction (circle one):
 I/A I/B II/A **II/B** III/A III/B IV/HT V/A V/B
- D. Fire Resistance Rating Requirements for the Exterior Walls based on the fire separation distance (in hours):
 North: EXISTING South: EXISTING East: EXISTING West: EXISTING
- E. Mixed Occupancies: Nonseparated Uses: 0
- F. Sprinklers:
 Required: Provided: Type of Sprinkler System: _____
- G. Number of Stories: 3 Building Height: 34'
- H. Actual Area per Floor (square feet): 3,500 SF
- I. Tabular Area: UNLIMITED MALL BUILDING
- J. Area Modifications:

$$A_s = A_1 + \left[\frac{A_1 I_r}{100} \right] + \left[\frac{A_1 I_s}{100} \right] \quad I_r = 100 \left[\frac{F}{P} - 0.25 \right] \frac{W}{30}$$
- 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: _____
 2) Two Story: $A_n(2)$ _____
 3) Three Story: $A_n(3)$ _____
- d) Unlimited Area Building: Yes No Code Section: 401
- K. Fire Resistance Rating Requirements for Building Elements (hours).
- | Fire-Resistive Requirements: | Type: II-B |
|------------------------------|------------|
| Bearing walls - Interior: | 0 |
| Exterior Non-Bearing Walls: | 0 |
| Structural Frames: | 0 |
| Partitions: | 1 |
| Shafts: | 1 Hr. |
| Floors - Ceilings: | 0 |
| Roofs - Ceilings: | 0 |
- L. Design Occupant Load: EXIST. BLDG: 471 ADDITION: 120
 Exit Width Required: 118" Exit Width Provided: 432"
- M. Minimum Number of Required Plumbing Facilities:
 a) Water Closets - Required (m) _____ (f) _____ Provided (m) 12 (f) 12
 b) Lavatories - Required (m) _____ (f) _____ Provided (m) 12 (f) 12
 c) Bath Tubs or Showers: 0
 d) Drinking Fountains: 3 Service Sinks: _____

FOOTNOTES:
 1) In case of conflict with the U.S. Department of Justice Federal Registers Parts I through V - 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.
 b) Atriums.
 c) Performance Based Criteria.
 d) Means of Egress Analysis.
 e) Fire Assembly Locator Sheet.
 f) Exterior and Interior Accessibility Route.
 g) Fire Stopping, Including Tested Design Number.

PROJECT TEAM

OWNER:
 DFCM
 S'ejan Crawford
 Project Manager
 4110 State Office Bldg.
 Salt Lake City, Utah 84114
 phone (801) 538-3174

USER:
 UVSC
 James L. Michaelis
 Associate Vice President
 Facilities Planning
 800 West University Parkway
 Orem, Utah 84058-5999
 phone (801)863-8776

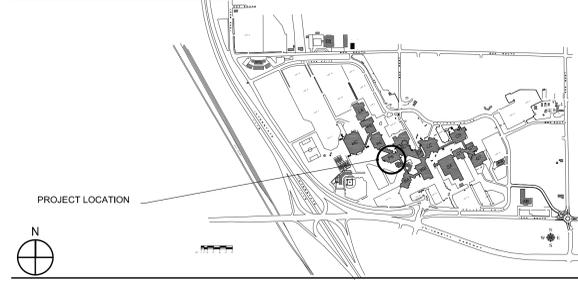
ARCHITECT:
 AXIS ARCHITECTS
 Pierre O. Langue AIA
 352 S. Denver St.
 Salt Lake City, UT 84111
 801.355.3003

STRUCTURAL:
 Bsumek Mu
 Reinhardt Bsumek
 345 South 400 East
 Salt Lake City, Utah 84111
 phone (801)575-8223
 fax (801)532-3778

MECHANICAL:
 Spectrum Engineers
 Jonathan Jensen
 175 South Main Street
 Salt Lake City, Utah 84111
 phone (801)328-5151

ELECTRICAL:
 BNA Consulting
 Elaine Fawson
 635 S. State Street
 Salt Lake City, Utah 84111
 phone (801)355-3003
 fax (801)355-8578

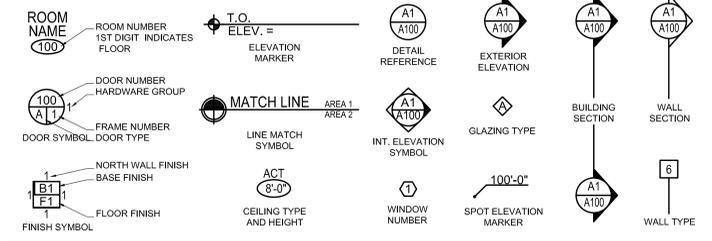
VICINITY MAP



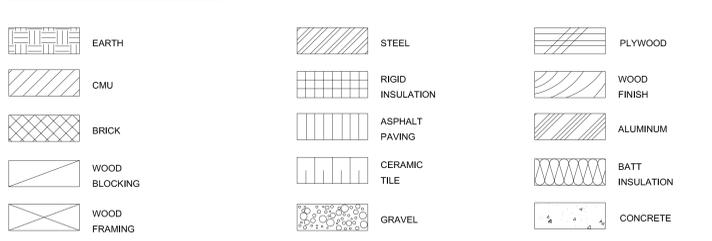
OVERALL SITE PLAN



SYMBOL LEGEND



GRAPHIC SYMBOLS



DRAWING INDEX

GENERAL	ARCHITECTURAL	STRUCTURAL	MECHANICAL	ELECTRICAL
GH01 GENERAL INFORMATION	AD100 LEVEL 0 DEMOLITION PLAN AD101 LEVEL 1 DEMOLITION PLAN AD102 LEVEL 2 DEMOLITION PLAN AE100 LEVEL 0 FLOOR PLAN AE101 LEVEL 1 FLOOR PLAN AE102 LEVEL 2 FLOOR PLAN AE103 ROOF PLAN AE110 LEVEL 0 REFLECTED CEILING PLAN AE111 LEVEL 1 REFLECTED CEILING PLAN AE112 LEVEL 2 REFLECTED CEILING PLAN AE201 BUILDING ELEVATIONS AE301 BUILDING SECTIONS AE302 BUILDING SECTIONS AE501 INTERIOR ELEVATIONS AE601 DETAILS	SE001 STRUCTURAL GENERAL NOTES SE101 LEVEL 1 FLOOR PLAN SE102 LEVEL 2 FLOOR PLAN SE103 ROOF PLAN SE301 STRUCTURAL DETAILS SE302 STRUCTURAL DETAILS SE501 TYPICAL STRUCTURAL DETAILS	ME001 MECHANICAL SYMBOLS, NOTES AND INDEX ME501 MECHANICAL DETAILS ME501 MECHANICAL SCHEDULES MD100 LEVEL 0 MECHANICAL DEMOLITION PLAN MD101 LEVEL 1 MECHANICAL DEMOLITION PLAN MD102 LEVEL 2 MECHANICAL DEMOLITION PLAN MH100 LEVEL 0 MECHANICAL PLAN MH101 LEVEL 1 MECHANICAL PLAN MH102 LEVEL 2 MECHANICAL PLAN MP101 LEVEL 1 MECHANICAL PIPING PLAN MP102 LEVEL 2 MECHANICAL PIPING PLAN PE001 PLUMBING SYMBOLS, NOTES AND INDEX PE001 PLUMBING DETAILS AND SCHEDULES PL100 LEVEL 0 PLUMBING PLAN PL101 LEVEL 1 PLUMBING PLAN PL102 LEVEL 2 PLUMBING PLAN	E000 ELECTRICAL SYMBOLS, SCHEDULES, NOTES E200 LEVEL 0 LIGHTING PLAN E201 LEVEL 1 LIGHTING PLAN E202 LEVEL 2 LIGHTING PLAN E300 LEVEL 0 POWER PLAN E301 LEVEL 1 POWER PLAN E302 LEVEL 2 POWER PLAN E500 ELECTRICAL DIAGRAMS

NOTE: THE SHEETS LISTED ABOVE REPRESENT A FULL SET OF CONSTRUCTION DOCUMENTS AND INCLUDE A DETAIL BOOK AND A PROJECT MANUAL AND SHALL NOT BE SEPERATED. ANY CONTRACTOR, SUBCONTRACTOR, VENDOR OR ANY OTHER PERSON PARTICIPATING IN OR BIDDING ON THIS PROJECT SHALL BE RESPONSIBLE FOR REVIEWING ALL THE CONSTRUCTION DOCUMENTS INCLUDING BUT NOT LIMITED TO DRAWINGS, DETAILS, PROJECT MANUAL, SPECIFICATIONS AND ANY AND ALL ADDENDA ISSUED.

UTAH VALLEY STATE COLLEGE SCIENCE BLDG. REMODEL III Orem, Utah

DFCM PROJECT # 06317790

March 22, 2007



State of Utah
 Department of Administrative Services
 Division of Facilities
 Construction & Management
 4110 State Office Building
 Salt Lake City, Utah 84114
 Phone: (801) 538 - 3018
 Fax: (801) 538 - 3267

APPROVALS	
Prime Agency	Date
DFCM	Date
APPROVAL DOES NOT RELIEVE A/E OF DESIGN LIABILITY	

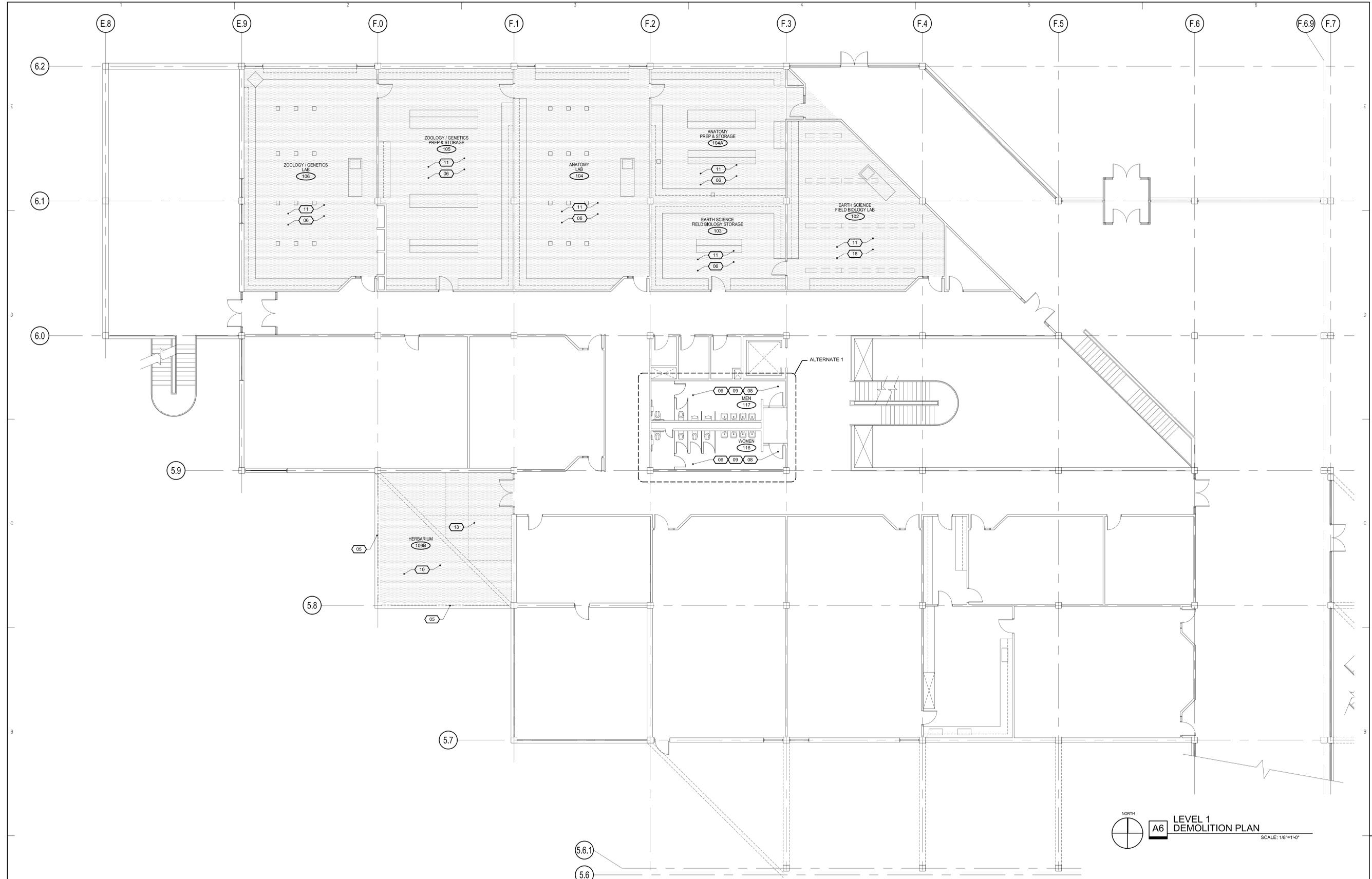
UVSC Science Building
 Phase III
 Utah Valley State College
 Schematic Design

Revision #	Date

Axis Job #	0626
Owner #	06317790
Date	01-11-07
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Checked	

INFORMATION SHEET
 x

GI101



NORTH
A6 LEVEL 1 DEMOLITION PLAN
 SCALE: 1/8"=1'-0"

DEMOLITION KEYNOTE LEGEND

- | | |
|---|---|
| <ul style="list-style-type: none"> 01 REMOVE WALL 02 REMOVE CARPET 03 REMOVE DOOR AND FRAME AND REUSE ON THIS PROJECT
SEE AE201 - SALVAGE THE REST FOR THE OWNER. 04 REMOVE WINDOW 05 REMOVE GUARD RAIL 06 REMOVE CEILING PANELS 07 REMOVE CEILING TILE AND GRID 08 REMOVE TOILET COMPARTMENT PARTITION 09 REMOVE EXISTING FLOOR TILE AND WALL TILE 10 REMOVE BRICK PAVERS AND SUBSTRATE 11 REMOVE EXISTING FLOOR FINISH | <ul style="list-style-type: none"> 12 REMOVE EXISTING SEATING AND REINSTALL AFTER REPLACING CARPET 13 REMOVE WOOD TRELLIS ABOVE 14 REMOVE GREENHOUSE GLAZING AND STEEL MULLIONS 15 REMOVE CARPET TILES AND SALVAGE FOR INSTALLATION ON THIS PROJECT. 16 REMOVE EXISTING LIGHT FIXTURES 17 REMOVE WOOD SLATS PANELS FROM WALLS AND SALVAGE FOR OWNER 18 REMOVE WOOD SLATS PANELS FROM ENTIRE CEILING - SALVAGE FOR RE-INSTALLATION. 19 REMOVE LIGHT FIXTURE - PATCH AND PAINT GYP. BOARD 20 REMOVE WALK-OFF MAT |
|---|---|
- DEMOLISH ITEMS SHOWN IN DASHED LINES

NOTES

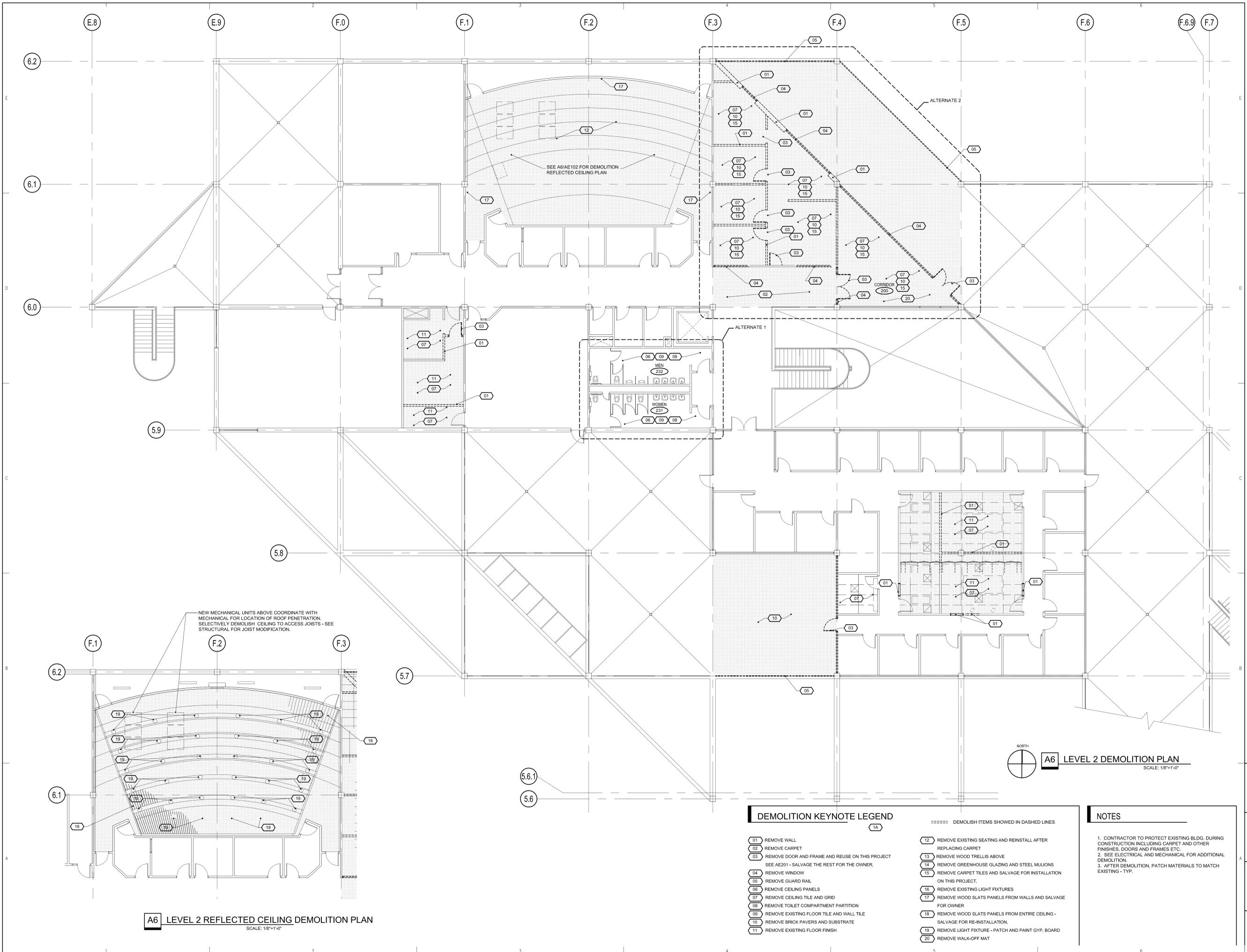
1. CONTRACTOR TO PROTECT EXISTING BLDG. DURING CONSTRUCTION INCLUDING CARPET AND OTHER FINISHES, DOORS AND FRAMES ETC.
2. SEE ELECTRICAL AND MECHANICAL FOR ADDITIONAL DEMOLITION.
3. AFTER DEMOLITION, PATCH MATERIALS TO MATCH EXISTING - TYP.

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Demolition Plan
 Level 1



A6 LEVEL 2 REFLECTED CEILING DEMOLITION PLAN
SCALE: 1/8"=1'-0"

DEMOLITION KEYNOTE LEGEND

- | | |
|---|---|
| <ul style="list-style-type: none"> 01 REMOVE WALL 02 REMOVE CARPET 03 REMOVE DOOR AND FRAME AND REUSE ON THIS PROJECT SEE AE201 - SALVAGE THE REST FOR THE OWNER. 04 REMOVE WINDOW 05 REMOVE GUARD RAIL 06 REMOVE CEILING PANELS 07 REMOVE CEILING TILE AND GRID 08 REMOVE TOILET COMPARTMENT PARTITION 09 REMOVE EXISTING FLOOR TILE AND WALL TILE 10 REMOVE BRICK PAVERS AND SUBSTRATE 11 REMOVE EXISTING FLOOR FINISH | <ul style="list-style-type: none"> 12 REMOVE EXISTING SEATING AND REINSTALL AFTER REPLACING CARPET 13 REMOVE WOOD TRELLIS ABOVE 14 REMOVE GREENHOUSE GLAZING AND STEEL MULLIONS 15 REMOVE CARPET TILES AND SALVAGE FOR INSTALLATION ON THIS PROJECT. 16 REMOVE EXISTING LIGHT FIXTURES 17 REMOVE WOOD SLATS PANELS FROM WALLS AND SALVAGE FOR OWNER 18 REMOVE WOOD SLATS PANELS FROM ENTIRE CEILING - SALVAGE FOR RE-INSTALLATION. 19 REMOVE LIGHT FIXTURE - PATCH AND PAINT GYP. BOARD 20 REMOVE WALK-OFF MAT |
|---|---|
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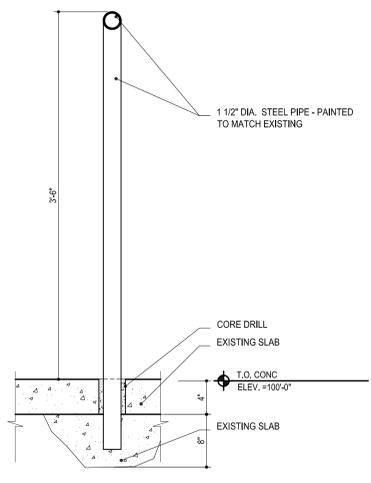
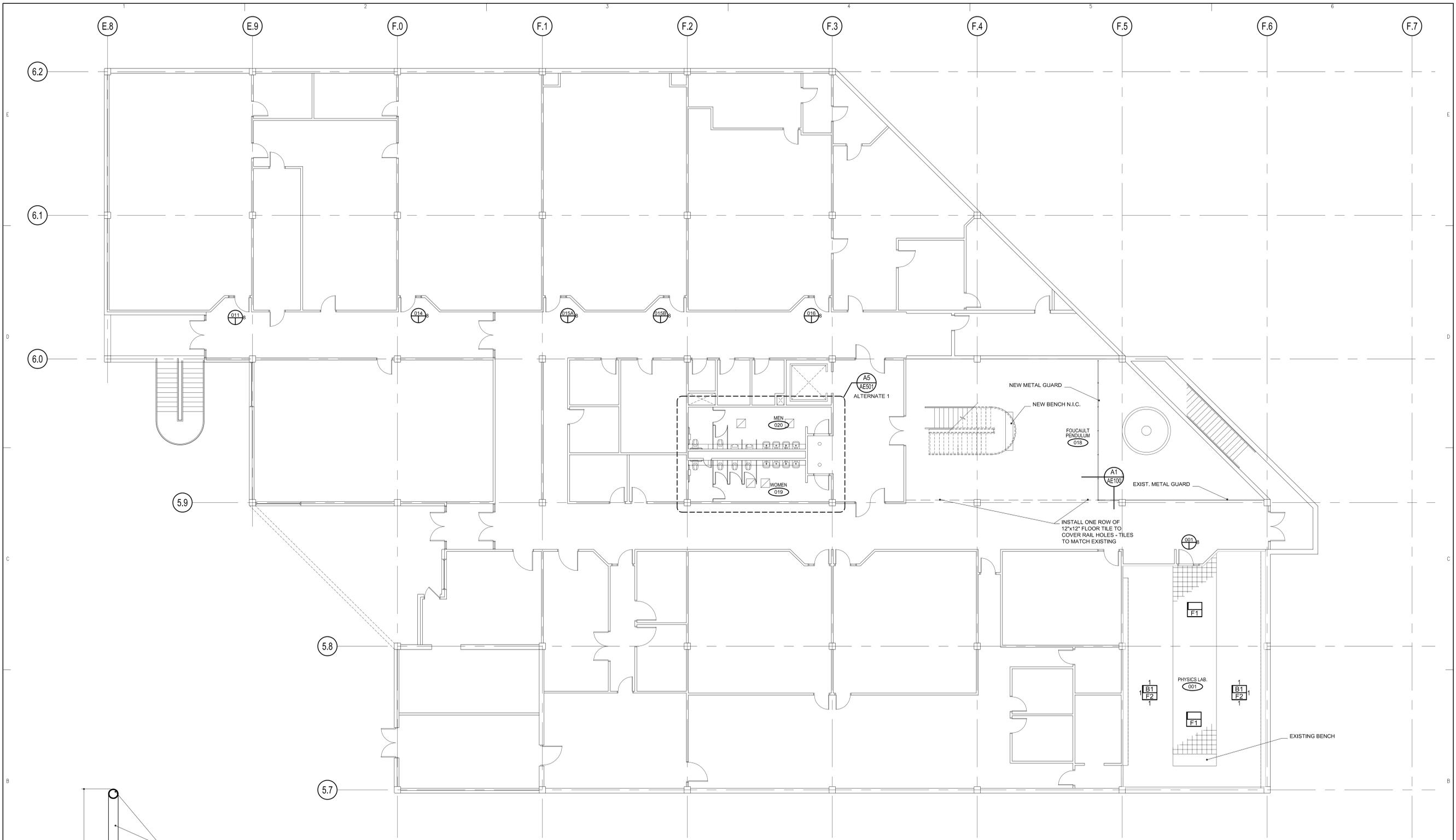
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Demolition Plan
Level 2



SYMBOL LEGEND	
ROOM NAME 100	ROOM NUMBER 1ST DIGIT INDICATES FLOOR
DOOR 100 A1	DOOR NUMBER HARDWARE GROUP FRAME NUMBER DOOR SYMBOL DOOR TYPE
FINISH 1 BT FT	NORTH WALL FINISH BASE FINISH FLOOR FINISH FINISH SYMBOL
T.O. CONC ELEV. = 100'-0"	ELEVATION MARKER
MATCH LINE AREA 1 AREA 2	LINE MATCH SYMBOL
ACT 8'-0"	CILING TYPE AND HEIGHT
A1 A100	DETAIL REFERENCE
A1 A100	EXTERIOR ELEVATION
A1 A100	INT. ELEVATION SYMBOL
ACT 8'-0"	GLAZING TYPE
1	WINDOW NUMBER
100'-0"	SPOT ELEVATION MARKER
A1 A100	BUILDING SECTION
A1 A100	WALL SECTION
6	WALL TYPE

- ### GENERAL NOTES
- CONTRACTOR TO VERIFY EXISTING CONDITIONS PRIOR TO BID.
 - CONTRACTOR TO VERIFY FIELD DIMENSION PRIOR TO FABRICATING.
 - PATCH WALLS AND CEILINGS AFTER DEMOLITION AS REQUIRED FOR NEW FINISH.
 - WALLS ARE CENTERED ON 5' GRID UNLESS NOTED OTHERWISE.
 - PROTECT ALL EXISTING WORK DURING CONSTRUCTION.
 - SEE A4/AE302 FOR CONSTRUCTION OF INTERIOR STUD WALL AT DECK.

WALL TYPES

	EXISTING WALL TO REMAIN
	1 HOUR RATED 3 5/8" METAL STUDS @ 16" O.C. - EXTEND TO DECK, BATT INSULATION AND SCHEDULED FINISH
	EXTERIOR WALL 6" (16 GA.) METAL STUDS @ 16" O.C. W/ R19 BATT INT: PAINTED GYP. BOARD EXT: EXT. SHEATHING - INFILTRATION BARRIER - ATLAS BRICK VENEER.
	FURRED OUT EXISTING WALL - 5 /8" GYP. BOARD OVER 7 /8" FURRING STRIP

FINISH LEGEND

WALL:	1 PAINTED GYP. BOARD 2 CERAMIC TILE - FULL HEIGHT 3 PAINTED G.W.B. - ACCENT COLOR
FLOOR:	F1 VCT F2 CARPET F3 SEALED CONCRETE F4 PORCELAIN TILE F5 WALK-OFF MAT
BASE:	B1 RUBBER BASE B2 COVED PORCELAIN TILE B3 4" V.G. FIR BASE TO MATCH EXIST.

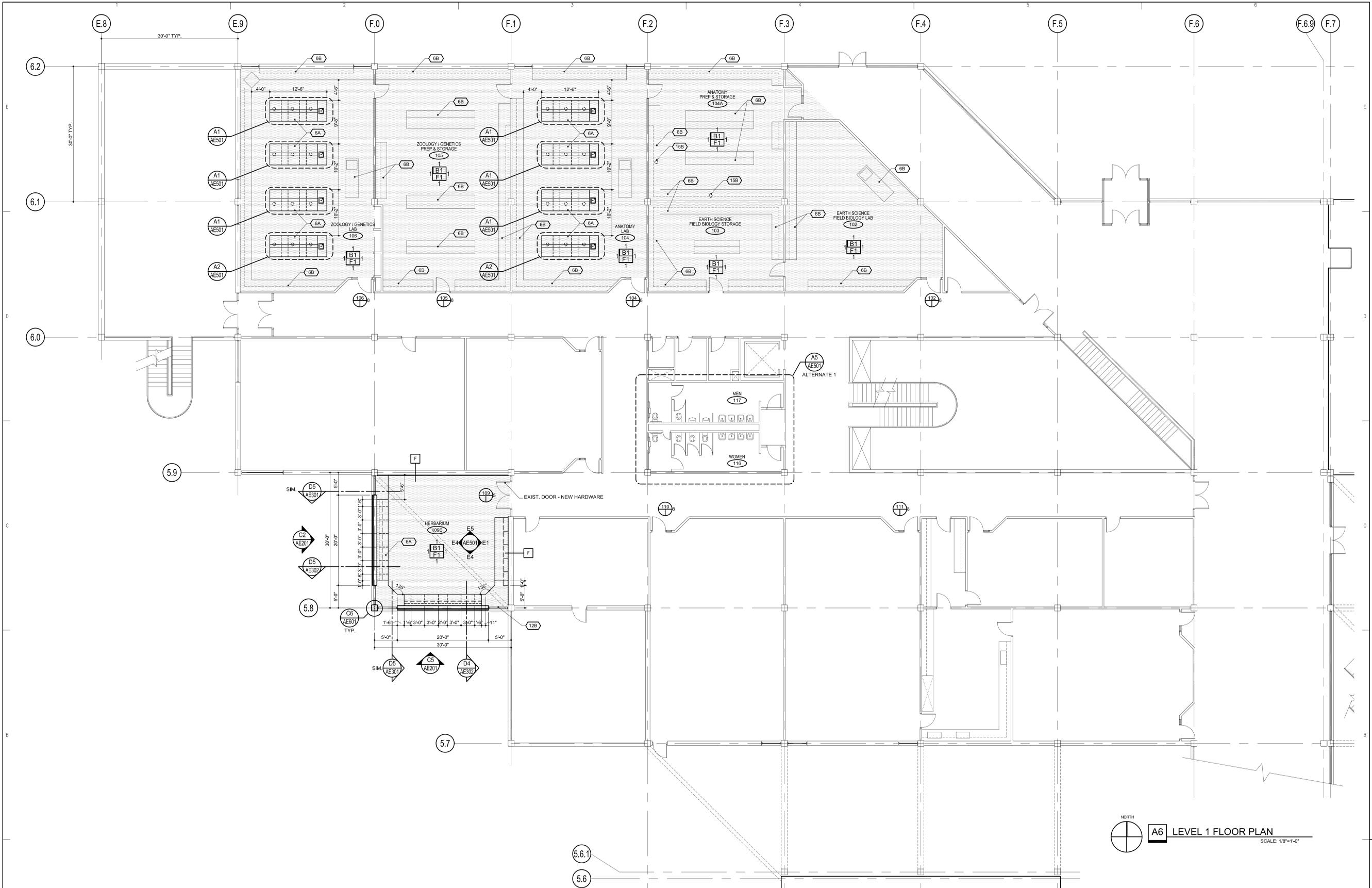
1. MATERIALS IN SIMILAR LOCATIONS ARE NOT KEYNOTED AT EVERY OCCURRENCE.
 2. PROVIDE CONCRETE MOISTURE SEALER ALL AREAS TO RECEIVE VCT, CARPET, SHEET VINYL, WALK-OFF MAT AND/OR RUBBER FLOORING.
 3. NO BASE AT STOREFRONT WALLS TYP.
 4. SCHEDULED BASE TO BE PROVIDED AT ALL MILLWORK LOCATIONS, NEW AND EXISTING, INCLUDING ISLANDS.

A6 LEVEL 0 FLOOR PLAN
SCALE: 1/8"=1'-0"

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Phase III**
Utah Valley State College
Schematic Design

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Floor Plan	Level 0



NORTH
A6 LEVEL 1 FLOOR PLAN
 SCALE: 1/8"=1'-0"

SYMBOL LEGEND	
	ROOM NUMBER 1ST DIGIT INDICATES FLOOR
	DOOR NUMBER HARDWARE GROUP
	FRAME NUMBER DOOR SYMBOL DOOR TYPE
	NORTH WALL FINISH BASE FINISH
	FLOOR FINISH FINISH SYMBOL
	T.O. ELEV. = ELEVATION MARKER
	MATCH LINE LINE MATCH SYMBOL
	ACT CEILING TYPE AND HEIGHT
	DETAIL REFERENCE
	EXTERIOR ELEVATION
	INT. ELEVATION SYMBOL
	WINDOW NUMBER
	SPOT ELEVATION MARKER
	BUILDING SECTION
	WALL SECTION
	GLAZING TYPE
	SPOT ELEVATION MARKER
	WALL TYPE

KEYNOTE LEGEND	
	6 - MILLWORK: 6A NEW MILLWORK. 6B EXISTING MILLWORK TO REMAIN 6C EPOXY RESIN COUNTER TOP
	7 - THERMAL AND MOISTURE PROTECTION: 7A SINGLE PLY ROOFING MEMBRANE W/ BALLAST. 7B NO INSULATION IN THIS WALL 7C TAPERED INSULATION
	8 - DOORS AND WINDOWS: 8D ADD LIGHT KIT TO EXISTING DOOR.
	9 - FINISHES 9D WHITE EPOXY PAINT ON WALLS
	12 - FURNISHINGS 12A FURNITURE N.I.C. 12B INSTALL BLINDS AT ALL NEW EXTERIOR WINDOWS 12C SIGN: THIS DOOR TO REMAIN UNLOCK DURING BUSINESS HOURS' NEXT TO DOOR AT 5' A.F.F.
	15 - MECHANICAL: 15A PLUMBING FIXTURE - SEE MECH. 15B SNORKEL VENT ABOVE - SEE MECH.

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	3 5/8" METAL STUDS @ 16" O.C. - BRACE TO STRUCT. 5/8" GYP. BOARD ON EA. SIDE, BATT INSULATION AND SCHEDULED FINISH EXTEND GWB 6" ABOVE CEILING.
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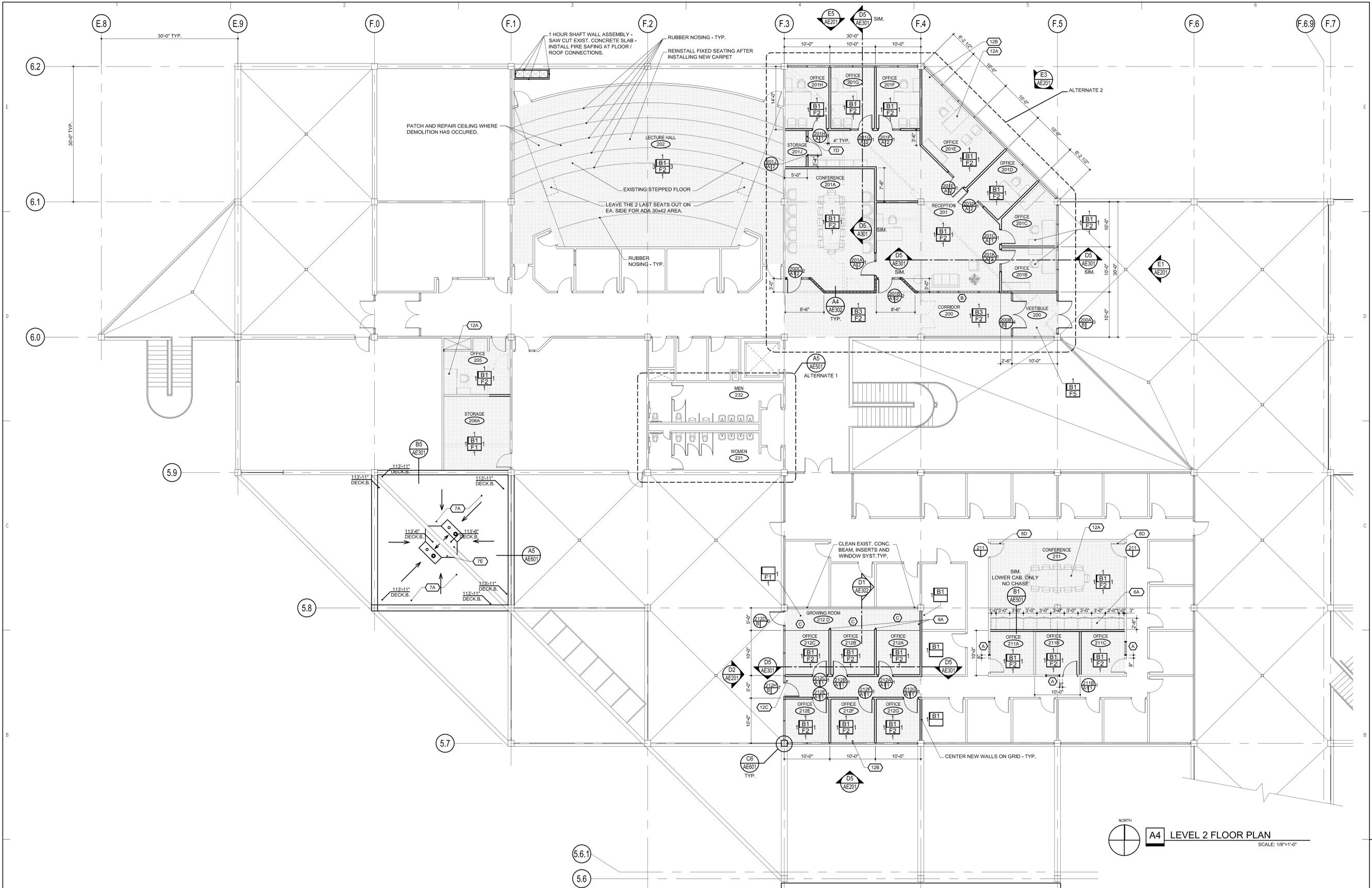
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Level 1	
Floor plan	

AE101

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A4 LEVEL 2 FLOOR PLAN
SCALE: 1/8"=1'-0"

SYMBOL LEGEND	
	ROOM NUMBER 1ST DIGIT INDICATES FLOOR
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Axis Architects
352 SOUTH DENVER STREET (405) 645-7171
SALT LAKE CITY, UTAH 84111
P: 352-5003 F: 352-6113

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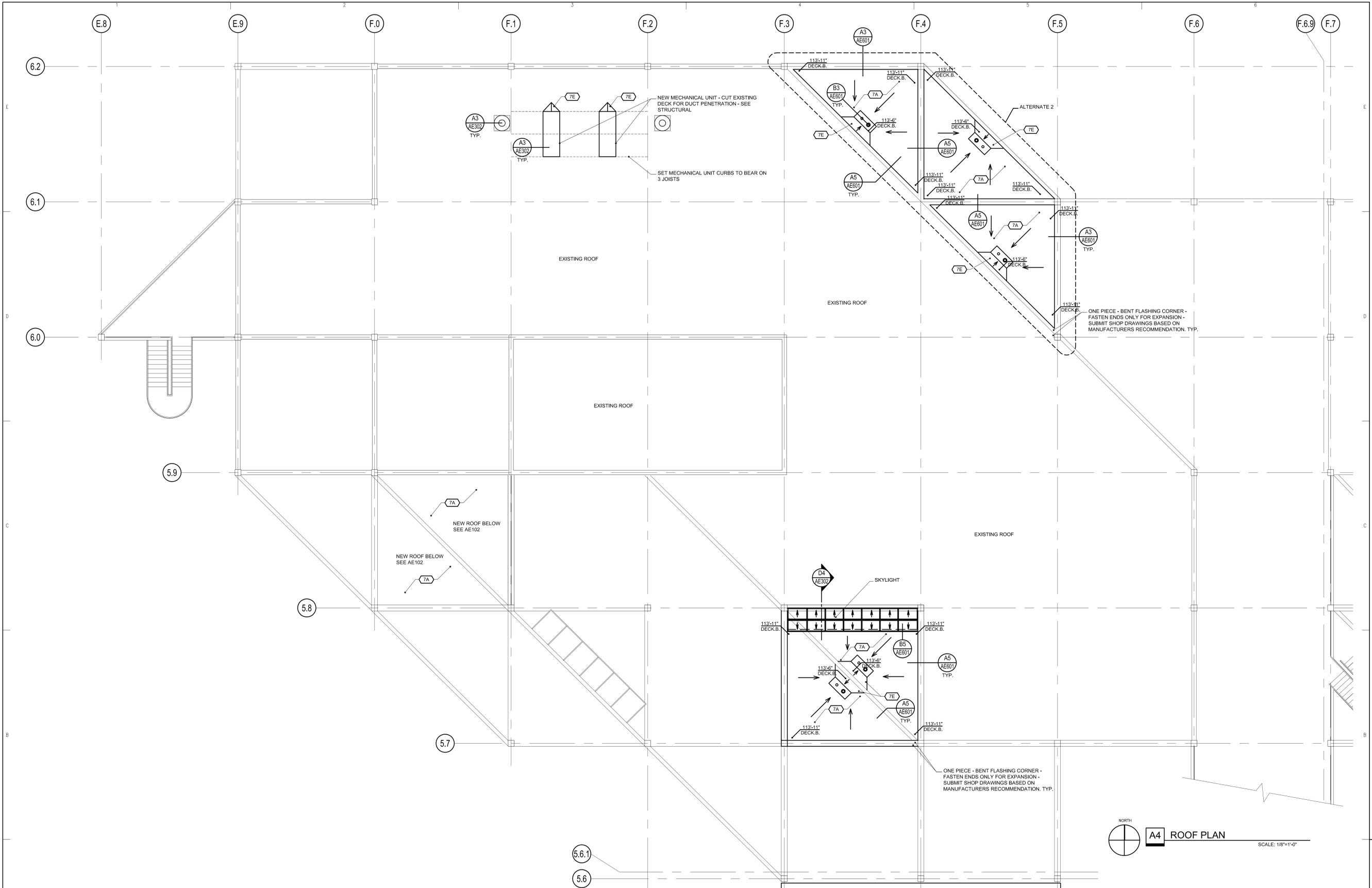
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Floor Plan
Level 2

AE102



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

KEYNOTE LEGEND	
6 - MILLWORK:	9 - FINISHES
6A NEW MILLWORK.	9D WHITE EPOXY PAINT ON WALLS
6B EXISTING MILLWORK TO REMAIN	12 - FURNISHINGS
6C EPOXY RESIN COUNTER TOP	12A FURNITURE N.I.C.
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7D NO INSULATION IN THIS WALL	15 - MECHANICAL:
7E TAPERED INSULATION	15A PLUMBING FIXTURE - SEE MECH.
8 - DOORS AND WINDOWS:	15B SNORKEL VENT ABOVE - SEE MECH.
8D ADD LIGHT KIT TO EXISTING DOOR.	

- ROOF NOTES**
1. PROVIDE TAPERED INSULATION AS REQUIRED.
 2. REPAIR EXISTING ROOFING MEMBRANE 5' PAST PARAPETS - TYP.
 3. DECK BEARING HEIGHT ARE CALCULATED ASSUMING SLAB BELOW AS 100'-0"
 4. USE FLOOR PLANS DIMENSIONS FOR TAKE-OFF. DO NOT SCALE DRAWINGS

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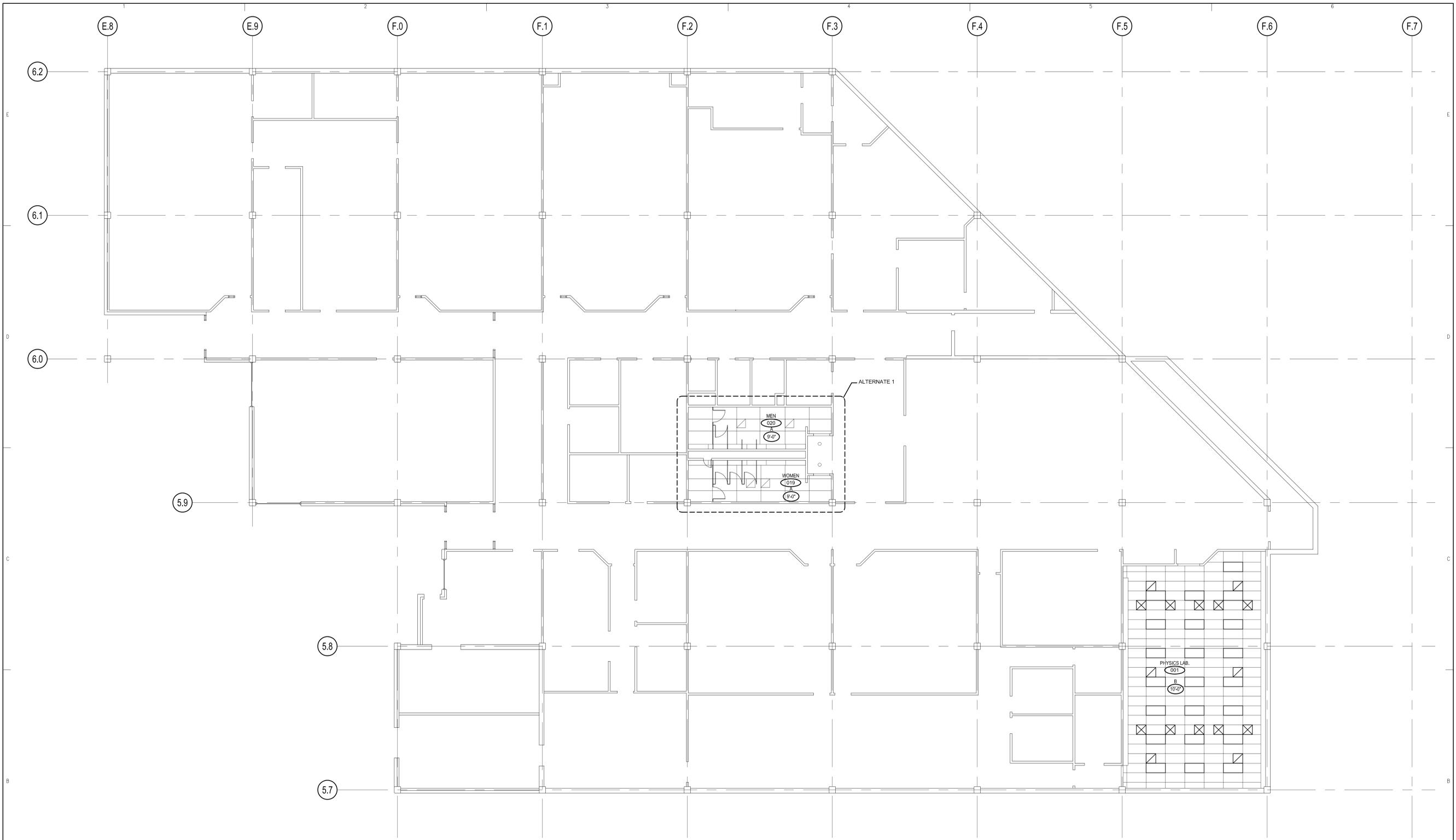
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ROOF PLAN

AE103



NORTH
A6 LEVEL 0 REFLECTED CEILING PLAN
 SCALE: 1/8"=1'-0"

NOTES

- ALL EXPOSED MECHANICAL DUCTS, PIPES, ELECTRICAL CONDUIT AND FIRE SPRINKLER LINES TO BE PAINTED WITH CAMPUS COLOR CODED SYSTEM.
- UVSC STANDARD COLORS ARE:
 Java Green: HVAC Duct AC098N
 Sunburry Low Hide: cold water supply AC105Y
 El Sol low hide: cold water return AC109Y
 serengeti sun low hide: Hot water supply AC108Y
 Fire King Red low hide: Hot water return AC110Y
 Lime Burst: Domestic water supply and return 7205A
 Blue Brilliance: Control compressed air AC070N
 Sizzling Haute: Electrical Supply & Sprinkler line AC119R

CEILING SYMBOL LEGEND

- 2 X 2 FLUORESCENT LIGHT FIXTURE. REFER TO ELECTRICAL DRAWINGS.
 - 2 X 4 FLUORESCENT LIGHT FIXTURE. REFER TO ELECTRICAL DRAWINGS.
 - 1 X 4 FLUORESCENT LIGHT FIXTURE. REFER TO ELECTRICAL DRAWINGS.
 - RECESSED DOWNLIGHT FIXTURE. REFER TO ELECTRICAL DRAWINGS.
 - WALL-WASHED LUMINAIRE. REFER TO ELECTRICAL DRAWINGS.
 - PENDANT FIXTURE
 - WALL SCONCE
 - WALL MOUNTED FIXTURE
 - EMERGENCY EXIT LIGHTING
 - RETURN AIR REGISTER. REFER TO MECHANICAL DRAWINGS.
 - SUPPLY AIR DIFFUSER. REFER TO MECHANICAL DRAWINGS.
 - ACCESS PANEL-SEE MECH. FOR FINAL SIZE AND LOCATION. NOTE: ADDITIONAL ACCESS PANELS MAY BE REQUIRED-COORD. WITH MECH. AND ELECT.
- ALSO REFER TO ELECTRICAL AND MECHANICAL DRAWINGS

CEILING SCHEDULE

- | | | | |
|--|---|--|--|
| | SUPPLY OR RETURN AIR GRILL OR DIFFUSER | | NEW 2.5 X 5 ACOUSTIC PANEL - CLEAN EXISTING GRID - REPLACE DAMAGED SECTIONS TO MATCH EXISTING |
| | SPRINKLER HEAD IN CENTER OF TILE | | PAINTED GYP. BOARD |
| | SUSPENDED CEILING PANEL PENETRATION DETAIL: NTS | | EXISTING WOOD SLATS TO BE CLEANED AND REINSTALLED EXIST. GYP CEILING TO BE PATCHED AND PAINTED WHITE |
| | NEW 2.5 X 5 ACOUSTIC PANEL - CLEAN EXISTING GRID - REPLACE DAMAGED SECTIONS TO MATCH EXISTING | | OPEN TO STRUCTURE. PAINTED UNO. INCLUDES ALL EXPOSED ITEMS INCLUDING THOSE ITEMS ABOVE ACOUSTIC CLOUDS |
| | NEW 2x4 LAY-IN ACOUSTIC PANEL AND GRID | | |

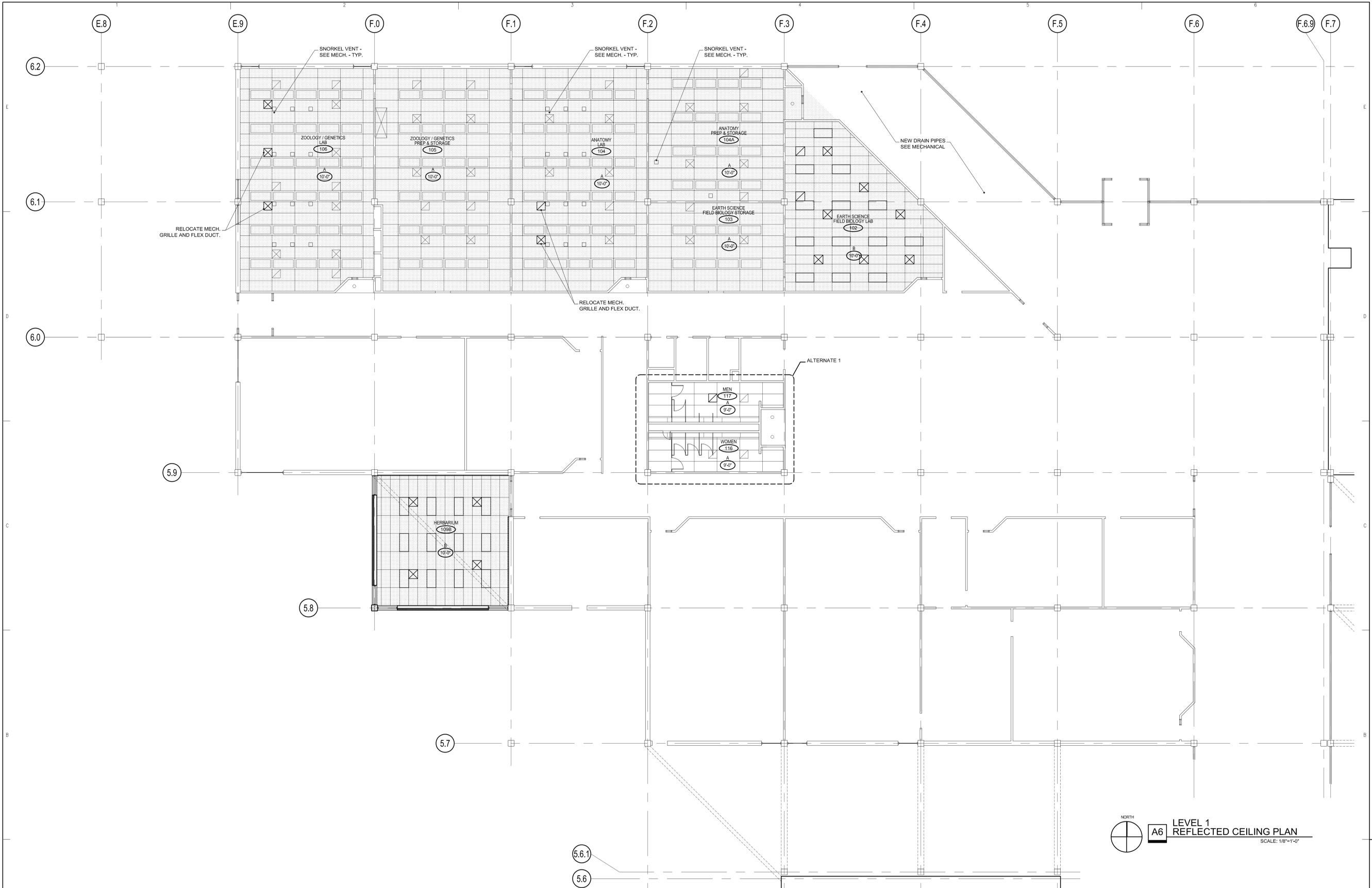
**UVSC Science Building
 Phase III**
 Utah Valley State College
 Schematic Design

Revision #	Date

Axis Job # 0626
 Owner # 06317790
 Date 01-11-07
 Drawn
 Checked

Reflected Ceiling Plan
 Level 0

AE110



NOTES

1 ALL EXPOSED MECHANICAL DUCTS, PIPES, ELECTRICAL CONDUIT AND FIRE SPRINKLER LINES TO BE PAINTED WITH CAMPUS COLOR CODED SYSTEM.

2 UVSC STANDARD COLORS ARE:
 Java Green: HVAC Duct AC098N
 Sunburry Low Hide: cold water supply AC105Y
 El and low hide: cold water return AC109Y
 serengetti sun low hide: Hot water supply AC108Y
 Fire King Red low hide: Hot water return AC110Y
 Lime Burst: Domestic water supply and return 7205A
 Blue Brilliance: Control compressed air AC107N
 Sizzling Haute: Electrical Supply & Sprinkler line AC119R

CEILING SYMBOL LEGEND

	2 X 2 FLUORESCENT LIGHT FIXTURE. REFER TO ELECTRICAL DRAWINGS.		WALL SCONE
	2 X 4 FLUORESCENT LIGHT FIXTURE. REFER TO ELECTRICAL DRAWINGS.		WALL MOUNTED FIXTURE
	1 X 4 FLUORESCENT LIGHT FIXTURE. REFER TO ELECTRICAL DRAWINGS.		EMERGENCY EXIT LIGHTING
	RECESSED DOWNLIGHT FIXTURE. REFER TO ELECTRICAL DRAWINGS.		RETURN AIR REGISTER. REFER TO MECHANICAL DRAWINGS.
	WALL-WASHED LUMINAIRE. REFER TO ELECTRICAL DRAWINGS.		SUPPLY AIR DIFFUSER. REFER TO MECHANICAL DRAWINGS.
	PENDANT FIXTURE		ACCESS PANEL-SEE MECH. FOR FINAL SIZE AND LOCATION. NOTE: ADDITIONAL ACCESS PANELS MAY BE REQUIRED-COORD. WITH MECH. AND ELECT.

ALSO REFER TO ELECTRICAL AND MECHANICAL DRAWINGS

CEILING SCHEDULE

	SUPPLY OR RETURN AIR GRILL OR DIFFUSER		NEW 2x2 LAY-IN ACOUSTIC PANEL AND GRID
	SPRINKLER HEAD IN CENTER OF TILE		PAINTED GYP. BOARD
SUSPENDED CEILING PANEL PENETRATION DETAIL: NTS			
	NEW 2.5 x 5 ACOUSTIC PANEL - CLEAN EXISTING GRID - REPLACE DAMAGED SECTIONS TO MATCH EXISTING		EXISTING WOOD SLATS TO BE CLEANED AND REINSTALLED EXIST. GYP CEILING TO BE PATCHED AND PAINTED WHITE
	NEW 2x4 LAY-IN ACOUSTIC PANEL AND GRID		OPEN TO STRUCTURE. PAINTED UNO. INCLUDES ALL EXPOSED ITEMS INCLUDING THOSE ITEMS ABOVE ACOUSTIC CLOUDS

NORTH
A6 LEVEL 1 REFLECTED CEILING PLAN
 SCALE: 1/8"=1'-0"

**UVSC Science Building
 Phase III**
 Utah Valley State College
 Schematic Design

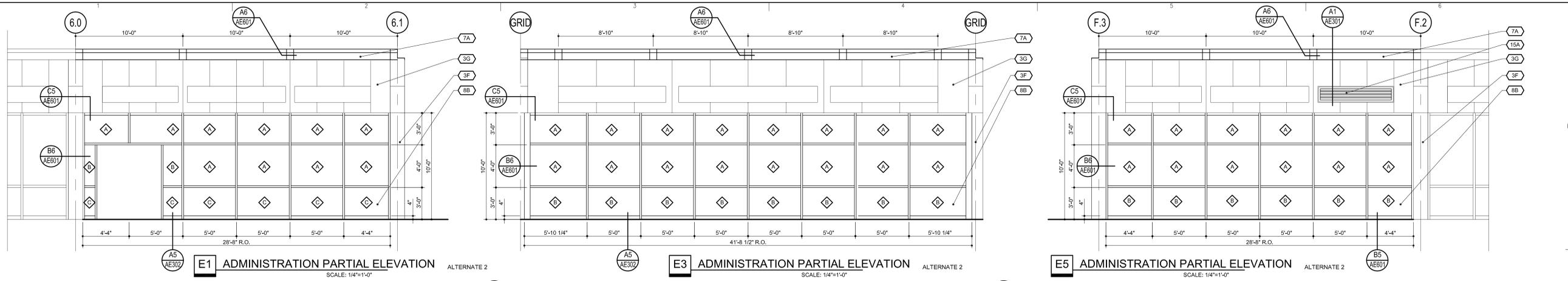
Revision # Date

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Axis Job # 0626
 Owner # 06317790
 Date 01-11-07
 Drawn
 Checked

Level 1
 Reflected Ceiling Plan

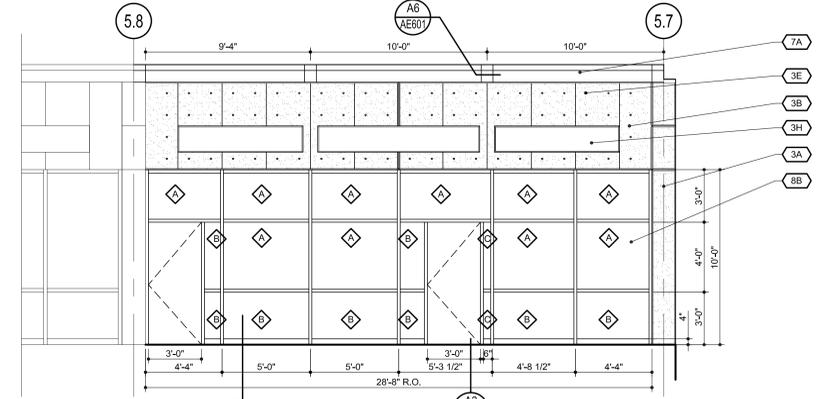
AE111



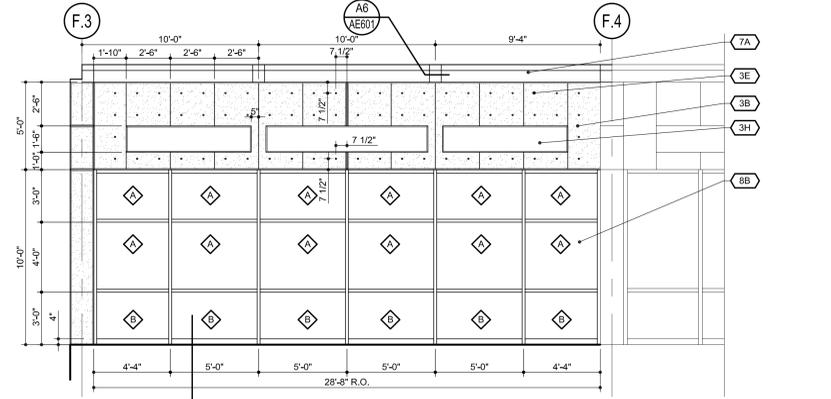
E1 ADMINISTRATION PARTIAL ELEVATION
SCALE: 1/4"=1'-0" ALTERNATE 2

E3 ADMINISTRATION PARTIAL ELEVATION
SCALE: 1/4"=1'-0" ALTERNATE 2

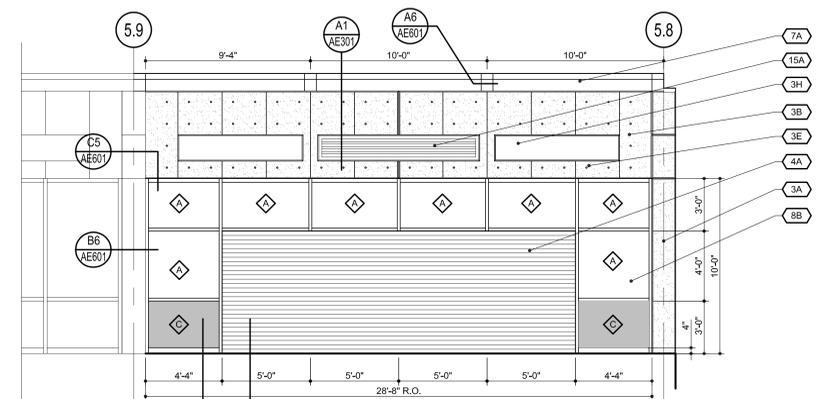
E5 ADMINISTRATION PARTIAL ELEVATION
SCALE: 1/4"=1'-0" ALTERNATE 2



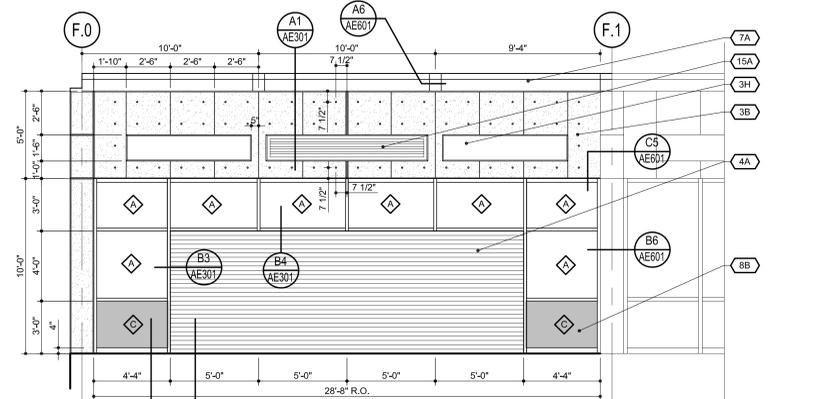
D2 OFFICE SUITE PARTIAL ELEVATION
SCALE: 1/4"=1'-0"



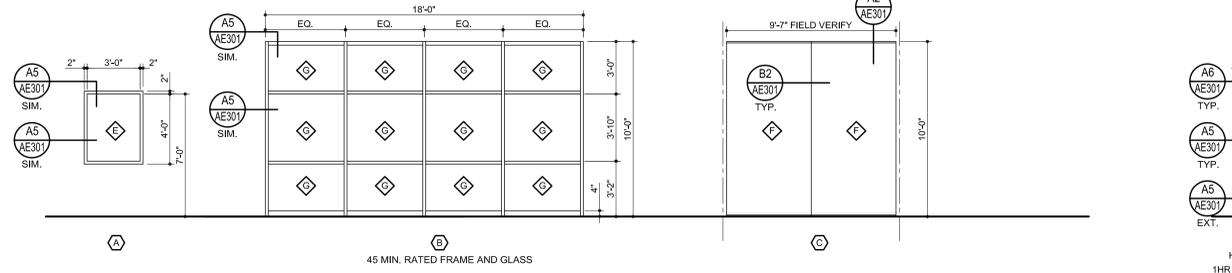
D5 OFFICE SUITE PARTIAL ELEVATION
SCALE: 1/4"=1'-0"



C2 HERBARIUM PARTIAL ELEVATION
SCALE: 1/4"=1'-0"



C5 HERBARIUM PARTIAL ELEVATION
SCALE: 1/4"=1'-0"

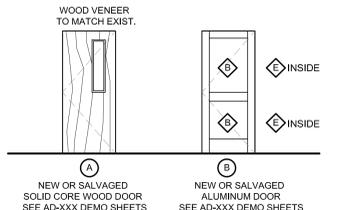


B1 WINDOW - HOLLOW METAL FRAME
SCALE: 1/4"=1'-0"

B3 WINDOW - FRAMELESS
SCALE: 1/4"=1'-0"

B4 FRAME TYPES - HM
SCALE: 1/4"=1'-0"

B5 FRAME TYPES - ALUMINUM
SCALE: 1/4"=1'-0"



B6 DOOR TYPES
SCALE: 1/4"=1'-0"

KEYNOTE LEGEND
ELEVATIONS

- 3 - CONCRETE:
 - 3A NEW CONCRETE COLUMN - SEE STRUCT.
 - 3B NEW CONCRETE BEAM - SEE STRUCT.
 - 3C CONTROL JOINT
 - 3D FORM JOINT
 - 3E CONCRETE TIE
 - 3F EXISTING CONC. COLUMN TO REMAIN
 - 3G EXISTING CONC. BEAM TO REMAIN
 - 3H RECESS IN CONC. PAINTED TO MATCH WINDOWS
 - 3J NEW CONCRETE SLAB - SEE STRUCT.
- 4 - MASONRY
 - 4A BRICK VENER
- 7 - THERMAL AND MOISTURE PROTECTION:
 - 7A CONT. PRE-FINISHED METAL FLASHING
 - 7B RIGID INSULATION - SEE ROOF DETAILS
- 8 - DOORS AND WINDOWS:
 - 8A SCHEDULED DOOR AND FRAME
 - 8B SCHEDULED WINDOW SYSTEM
- 15 - MECHANICAL:
 - 15A MECH. LOUVER - PAINTED WITH UVSC COLORS.
- 16 - ELECTRICAL:
 - 16A LIGHT FIXTURE - SEE SCHEDULE

GLAZING SCHEDULE

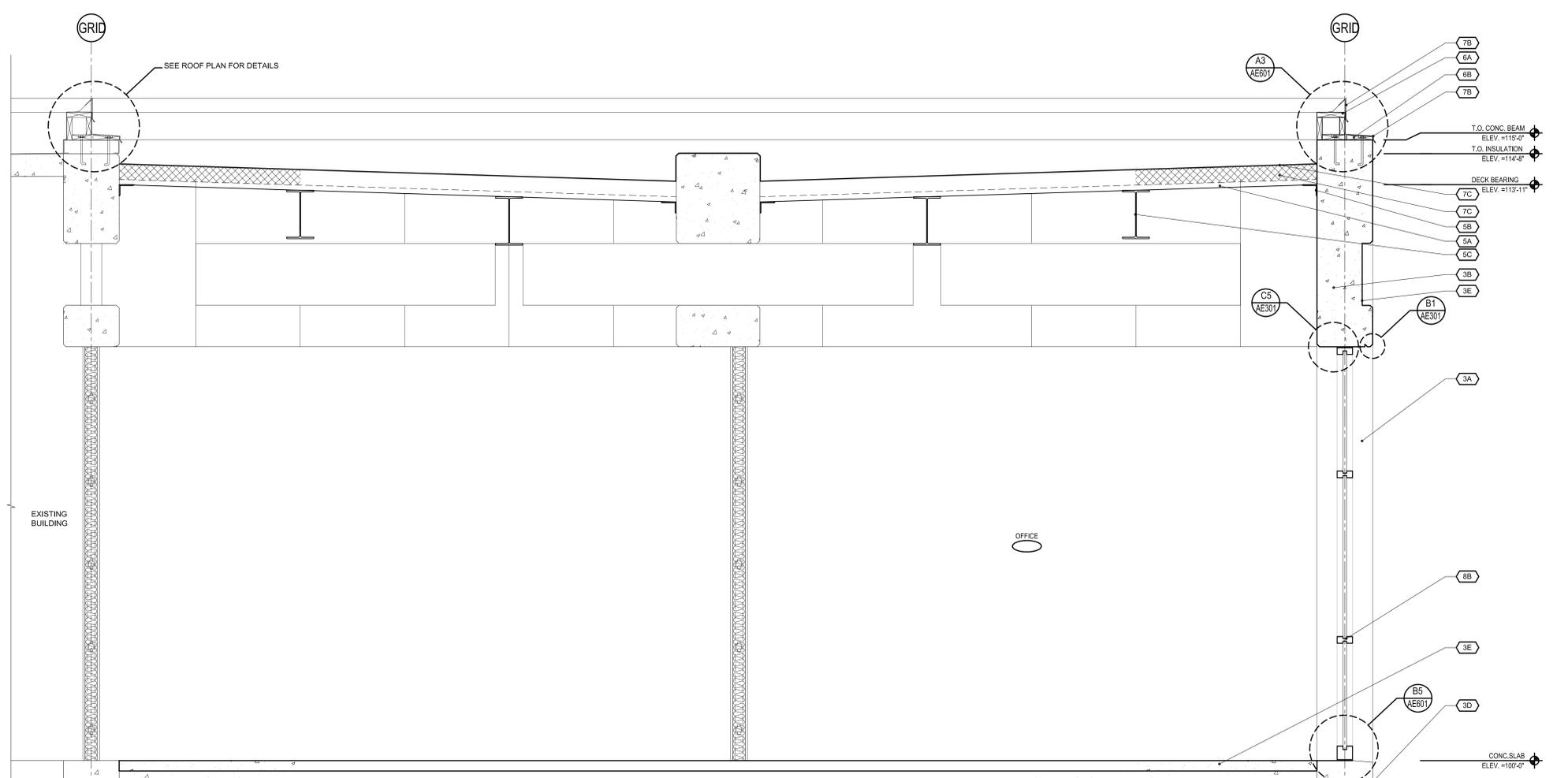
- ◇ NEW 1" INSULATED GLASS - BRONZE TINT
- ◇ NEW 1" INSULATED TEMPERED GLASS - BRONZE TINT
- ◇ NEW 1" INSULATED ALUMINUM PANEL - BRONZE ANODIZED
- ◇ 1/4" CLEAR GLASS
- ◇ 1/4" CLEAR TEMPERED GLASS
- ◇ 1/2" CLEAR TEMPERED GLASS
- ◇ 45 MIN. RATED GLASS

1. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS AND ANGLES PRIOR TO FABRICATION.
2. SOME DETAILS MAY BE REVERSED.
3. ALL MULLIONS ARE 2" U.N.O.

Revision # Date

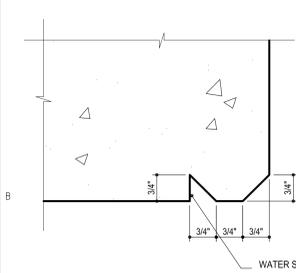
Axis Job # 0626
Owner # 06317790
Date 01-11-07
Drawn
Checked

ELEVATIONS

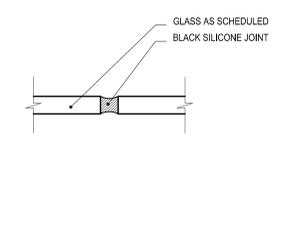


- KEYNOTE LEGEND** 1A
WALL SECTIONS
- 3 - CONCRETE:
 - 3A NEW CONCRETE COLUMN - SEE STRUCT.
 - 3B NEW CONCRETE BEAM - SEE STRUCT.
 - 3C EXISTING CONC. COLUMN TO REMAIN
 - 3D EXISTING CONC. BEAM TO REMAIN
 - 3E RECESS IN CONC. BEAM - PAINTED
 - 3F NEW LIGHTWEIGHT CONCRETE TOP SLAB - SEE STRUCT.
 - 4 - MASONRY:
 - 4A BRICK VENEER
 - 4B WHEEL HOLES AT 2' O.C.
 - 4C BRICK TIES 16" HORIZONTALLY AND VERT.
 - 5 - METALS:
 - 5A 1/2" STEEL DECK - SEE STRUCT.
 - 5B STEEL ANGLE - PAINTED - SEE STRUCT.
 - 5C STEEL BEAM - PAINTED - SEE STRUCT.
 - 5D BRACE TO STRUCTURE.
 - 6 - WOOD:
 - 6A 2x TREATED WOOD BLOCKING
 - 6B SHAPED 2x TREATED WOOD BLOCKING
 - 6C INFILTRATION BARRIER OVER EXTERIOR SHEATHING
 - 7 - THERMAL AND MOISTURE PROTECTION:
 - 7A SINGLE PLY ROOFING MEMBRANE W/ BALLAST
 - 7B CONT. PRE-FINISHED METAL FLASHING
 - 7C R-30 POLY-ISOCYANURATE INSULATION - SEE ROOF DETAILS
 - 7E R-19 BATT INSULATION
 - 7F VAPOR BARRIER
 - 8 - DOORS AND WINDOWS:
 - 8A SCHEDULED DOOR AND FRAME
 - 8B SCHEDULED WINDOW SYSTEM
 - 8C GLASS SKYLIGHT SYSTEM.
 - 9 - FINISHES:
 - 9A PAINTED G. B.
 - 9B SCHEDULED FLOOR FINISH
 - 9C SCHEDULED CEILING SYSTEM
 - 15 - MECHANICAL:
 - 15A MECH. LOUVER - PAINTED WITH UVSC COLORS.
 - 16 - ELECTRICAL:
 - 16A LIGHT FIXTURE - SEE SCHEDULE

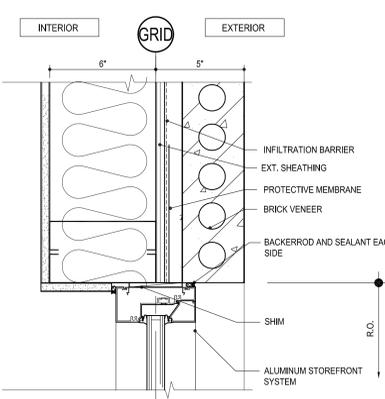
D5 BUILDING SECTION
SCALE: 3/4"=1'-0"



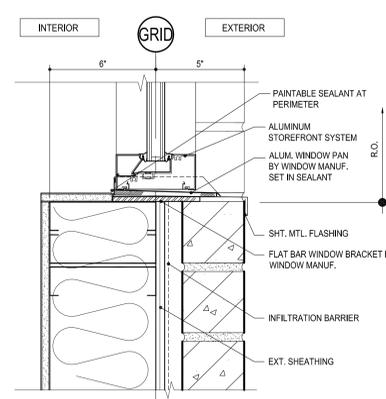
B1 CONCRETE DRIP DETAIL
SCALE: 3/4"=1'-0"



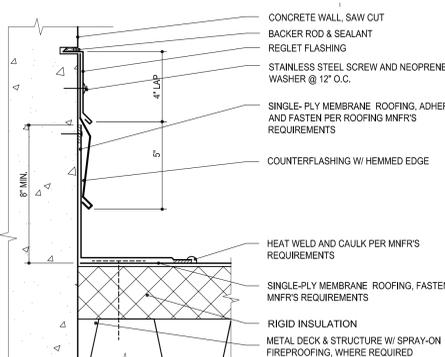
B2 GLASS WALL DETAIL
SCALE: 3/4"=1'-0"



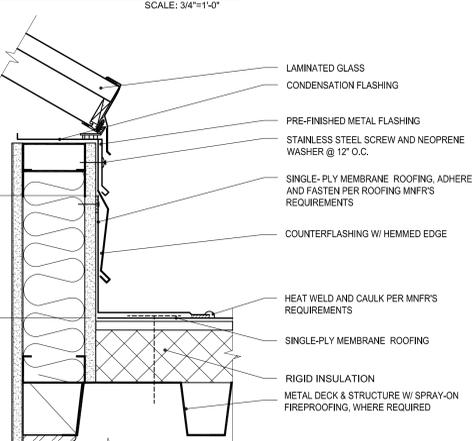
B3 WINDOW JAMB DETAIL
SCALE: 3/4"=1'-0"



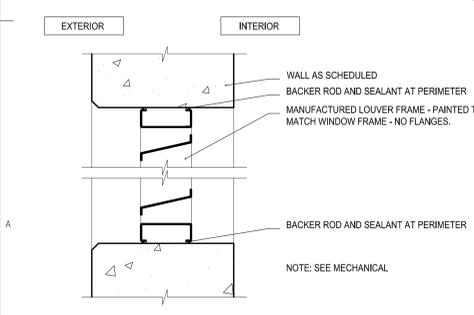
B4 WINDOW SILL DETAIL
SCALE: 3/4"=1'-0"



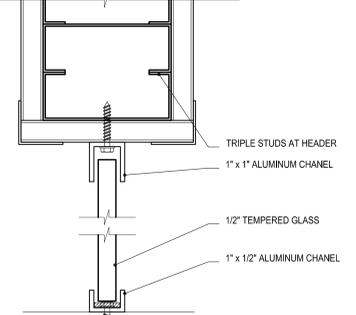
B5 ROOF DETAIL
SCALE: 3/4"=1'-0"



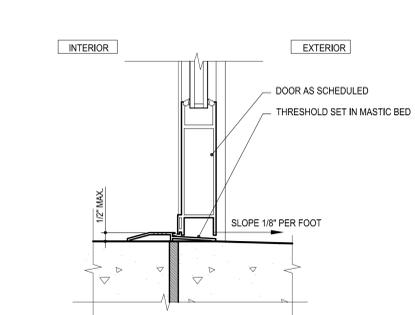
B6 SKYLIGHT DETAIL
SCALE: 3/4"=1'-0"



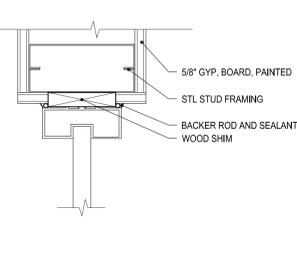
A1 LOUVER DETAIL
SCALE: 1/2"=1'-0"



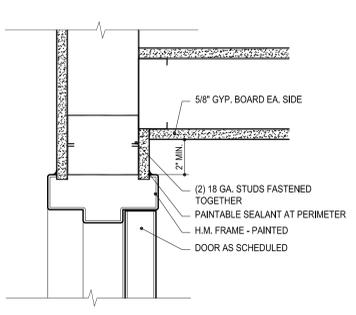
A2 GLASS WALL DETAIL
SCALE: 3/4"=1'-0"



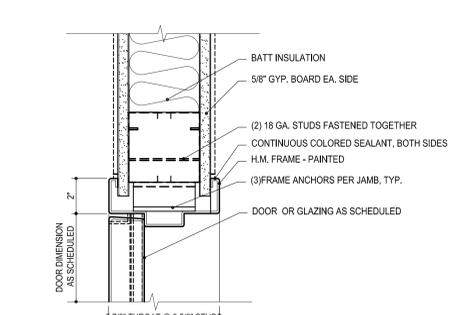
A3 DOOR DETAIL
SCALE: 3/4"=1'-0"



A4 DOOR DETAIL
SCALE: 3/4"=1'-0"



A5 DOOR DETAIL
SCALE: 3/4"=1'-0"



A6 DOOR DETAIL
SCALE: 3/4"=1'-0"

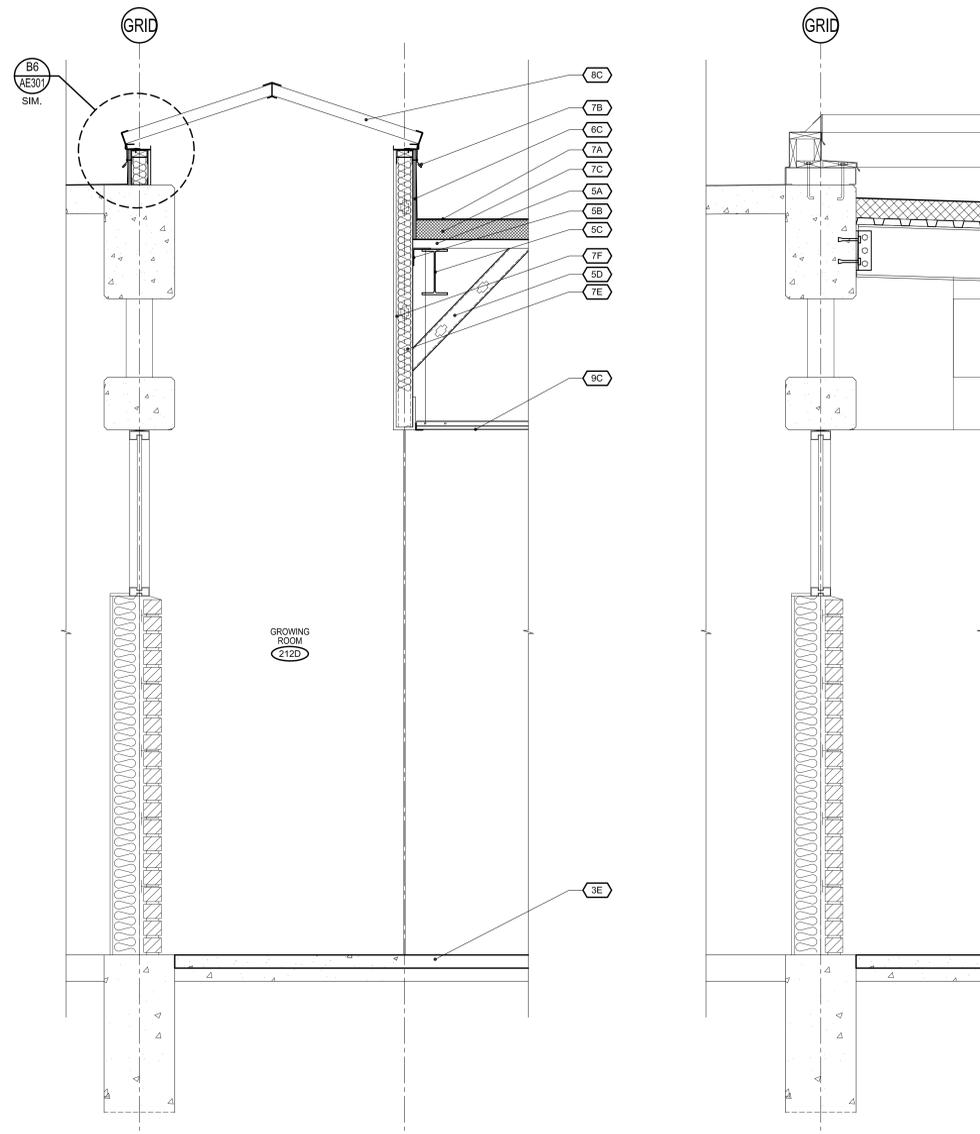
**UVSC Science Building
Phase III**
Utah Valley State College
Schematic Design

Revision #	Date

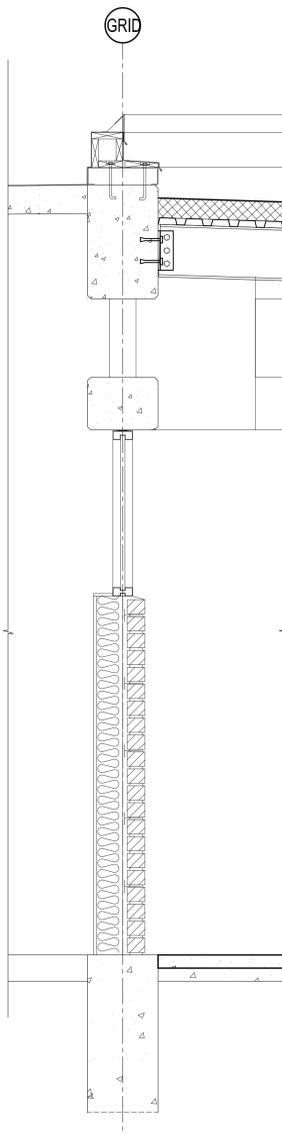
Axis Job #	0626
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Date	01-11-07
Drawn	
Checked	

AE301

Axis Architects
 382 SOUTH DENVER STREET (405) 645-7171
 SALT LAKE CITY, UTAH 84111
 P: 355-5003 F: 355-6113

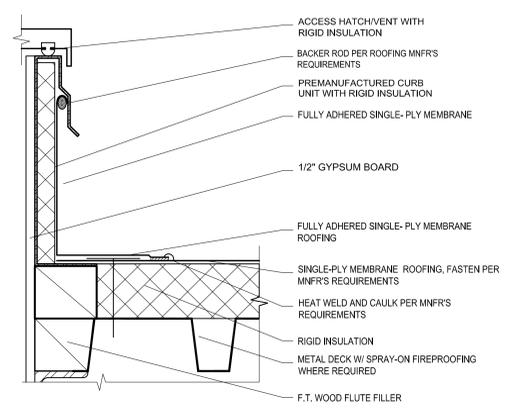


D1 PARTIAL BUILDING SECTION
SCALE: 3/4"=1'-0"

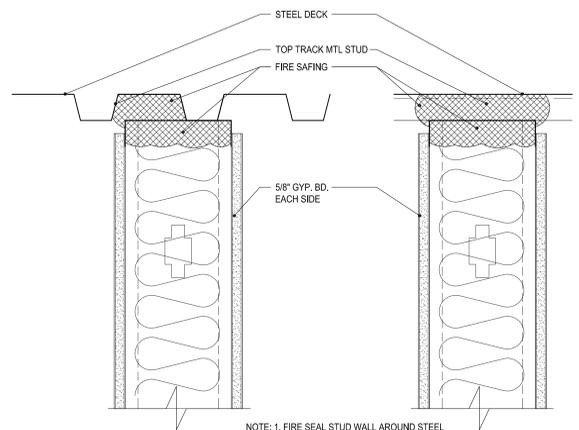


D5 PARTIAL BUILDING SECTION
SCALE: 3/4"=1'-0"

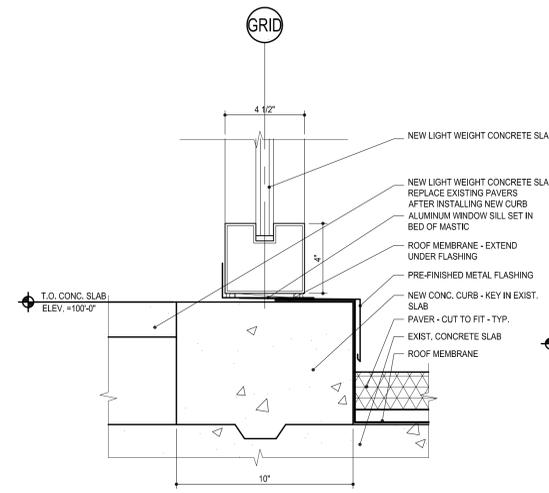
- KEYNOTE LEGEND** 1A
WALL SECTIONS
- 3 - CONCRETE:
 - 3A NEW CONCRETE COLUMN - SEE STRUCT.
 - 3B NEW CONCRETE BEAM - SEE STRUCT.
 - 3C EXISTING CONC. COLUMN TO REMAIN
 - 3D EXISTING CONC. BEAM TO REMAIN
 - 3E RECESS IN CONC. BEAM - PAINTED
 - 3F NEW LIGHTWEIGHT CONCRETE TOP SLAB - SEE STRUCT.
 - 4 - MASONRY:
 - 4A BRICK VENEER
 - 4B WHEEP HOLES AT 2' O.C.
 - 4C BRICK TIES 16" HORIZONTALLY AND VERT.
 - 5 - METALS:
 - 5A 1/2" STEEL DECK - SEE STRUCT.
 - 5B STEEL ANGLE - PAINTED - SEE STRUCT.
 - 5C STEEL BEAM - PAINTED - SEE STRUCT.
 - 5D BRACE TO STRUCTURE.
 - 6 - WOOD:
 - 6A 2x TREATED WOOD BLOCKING
 - 6B SHAPED 2x TREATED WOOD BLOCKING
 - 6C INFILTRATION BARRIER OVER EXTERIOR SHEATHING
 - 7 - THERMAL AND MOISTURE PROTECTION:
 - 7A SINGLE PLY ROOFING MEMBRANE W/ BALLAST
 - 7B CONT. PRE-FINISHED METAL FLASHING
 - 7C R-30 POLY-ISOCYANURATE INSULATION - SEE ROOF DETAILS
 - 7E R-19 BATT INSULATION
 - 7F VAPOR BARRIER
 - 8 - DOORS AND WINDOWS:
 - 8A SCHEDULED DOOR AND FRAME
 - 8B SCHEDULED WINDOW SYSTEM
 - 8C GLASS SKYLIGHT SYSTEM.
 - 9 - FINISHES:
 - 9A PAINTED G. B.
 - 9B SCHEDULED FLOOR FINISH
 - 9C SCHEDULED CEILING SYSTEM
 - 15 - MECHANICAL:
 - 15A MECH. LOUVER - PAINTED WITH UVSC COLORS.
 - 16 - ELECTRICAL:
 - 16A LIGHT FIXTURE - SEE SCHEDULE



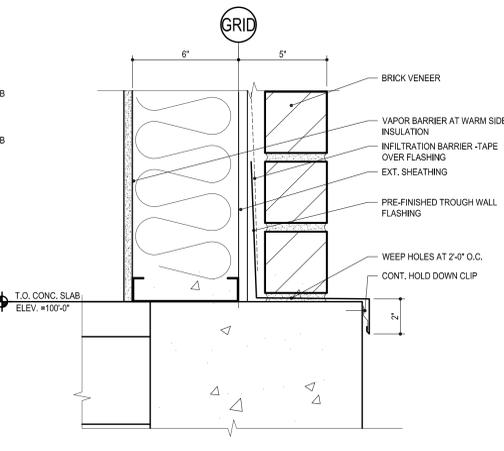
A3 MECHANICAL UNIT CURB
SCALE: 3"=1'-0"



A4 STUD WALL AT DECK
SCALE: 3"=1'-0"



A5 WINDOW SILL DETAIL
SCALE: 3"=1'-0"



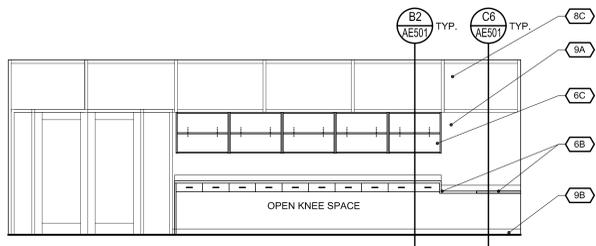
A6 WALL BASE DETAIL
SCALE: 3"=1'-0"

**UVSC Science Building
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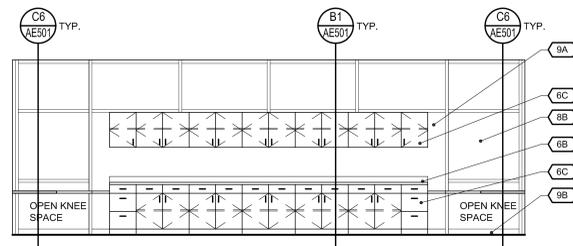
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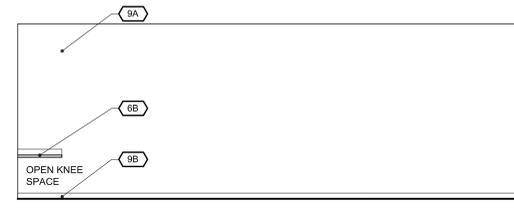
SECTIONS



E1 HERBARIUM INTERIOR ELEVATION
SCALE: 1/4"=1'-0"



E4 HERBARIUM INTERIOR ELEVATION
SCALE: 1/4"=1'-0"

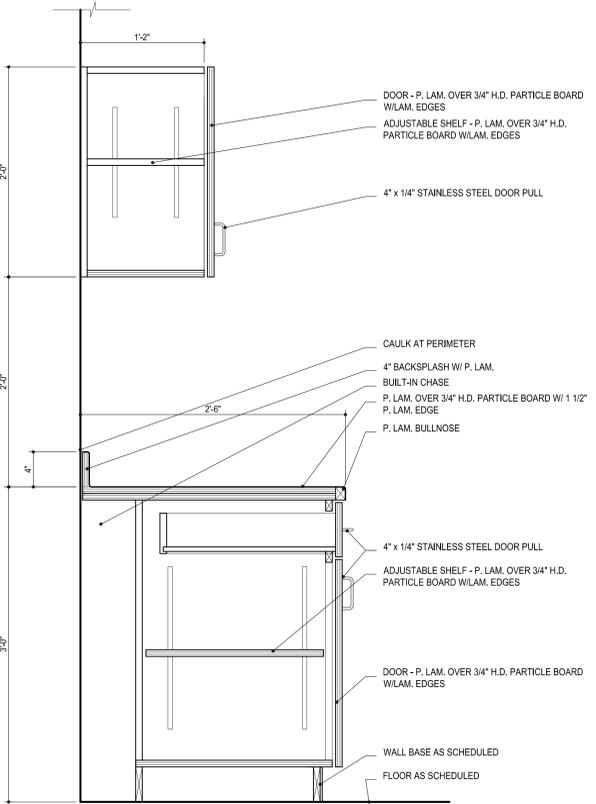


E5 HERBARIUM INTERIOR ELEVATION
SCALE: 1/4"=1'-0"

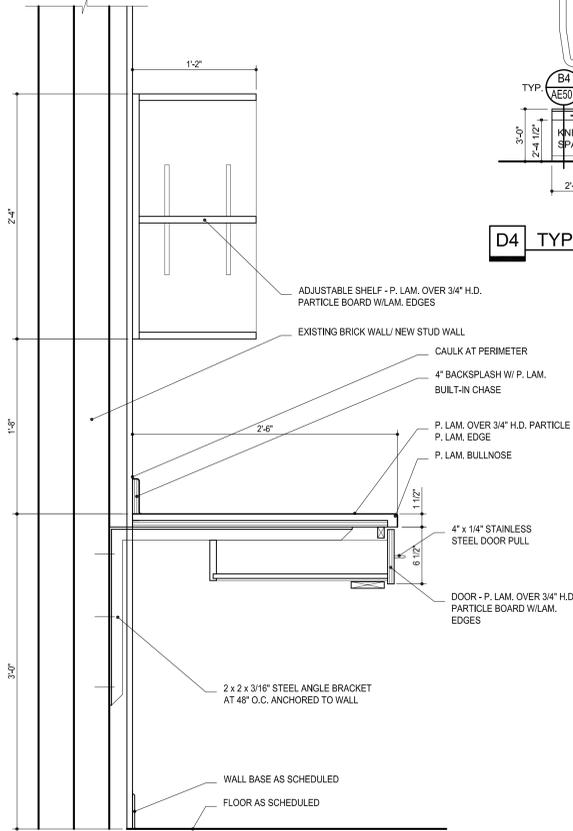
KEYNOTE LEGEND (1A)

CASEWORK

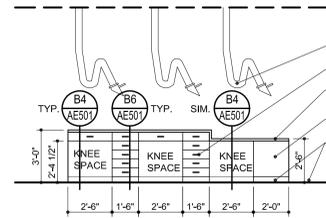
- 6 - WOOD:
 - 6A EPOXY RESIN COUNTER TOP
 - 6B PLASTIC LAMINATE COUNTER TOP AND BACKSPLASH
 - 6C NEW MILLWORK - W/ LOCKS AT ALL DOORS AND DRAWERS
 - 6D END PANEL TO MATCH CASEWORK
- 8 - DOORS AND WINDOWS:
 - 8A SCHEDULED DOOR AND FRAME
 - 8B SCHEDULED WINDOW SYSTEM
 - 8C EXISTING WINDOWS TO REMAIN
- 9 - FINISHES:
 - 9A PAINTED G. B.
 - 9B SCHEDULED BASE
- 15 - MECHANICAL:
 - 15A MECH. SNORKEL VENT



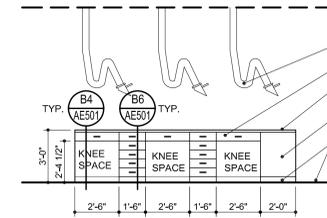
B1 MILLWORK SECTION
SCALE: 1 1/2"=1'-0"



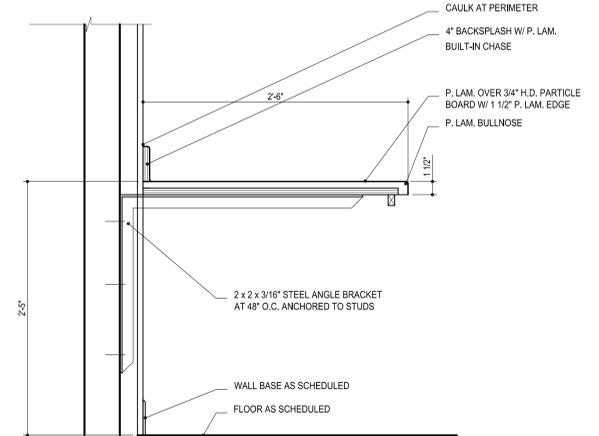
B2 MILLWORK SECTION
SCALE: 1 1/2"=1'-0"



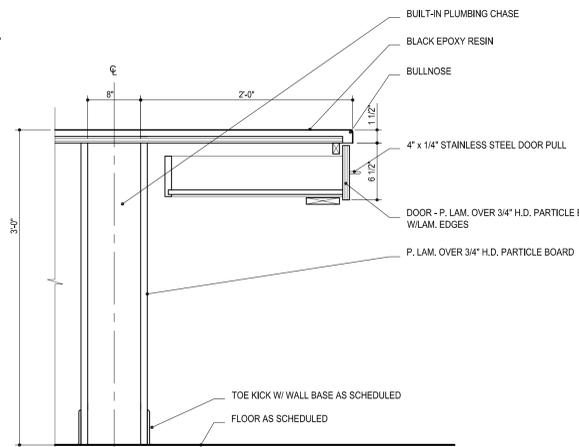
D4 TYPICAL LAB ELEVATION AT ADA STATION
SCALE: 1/4"=1'-0"



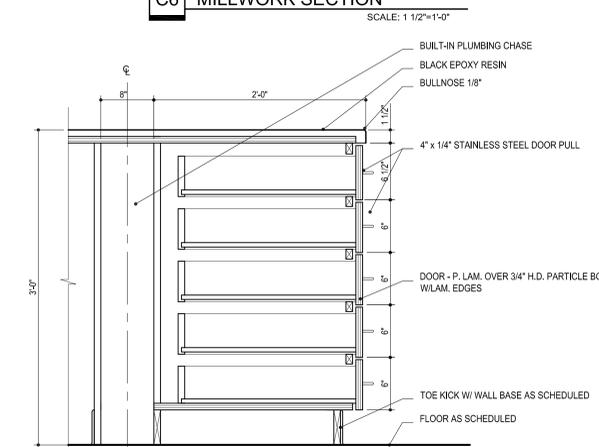
D5 TYPICAL LAB ELEVATION
SCALE: 1/4"=1'-0"



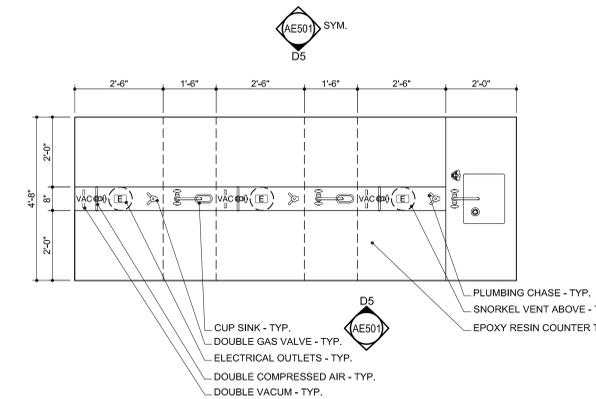
C6 MILLWORK SECTION
SCALE: 1 1/2"=1'-0"



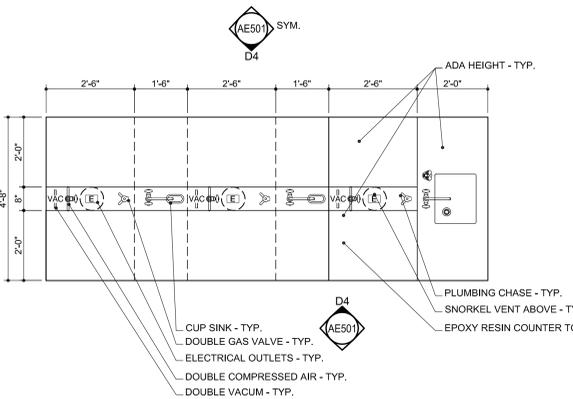
B4 MILLWORK SECTION
SCALE: 1 1/2"=1'-0"



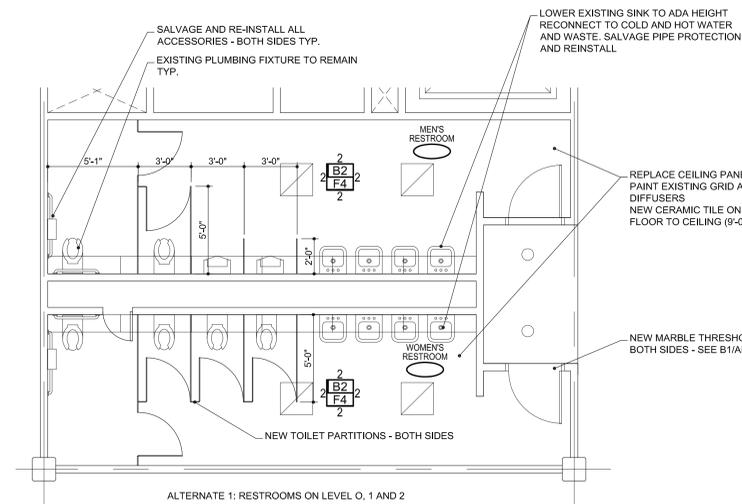
B6 MILLWORK SECTION
SCALE: 1 1/2"=1'-0"



A1 ENLARGED LAB BENCH PLAN
SCALE: 1/2"=1'-0"



A2 ENLARGED ADA LAB BENCH PLAN
SCALE: 1/2"=1'-0"



A5 ENLARGED RESTROOM PLAN
SCALE: 1/4"=1'-0"

FINISH LEGEND

WALL:

- 1 PAINTED GYP. BOARD
- 2 CERAMIC TILE - FULL HEIGHT
- 3 PAINTED G.W.B. - ACCENT COLOR

FLOOR:

- F1 VCT
- F2 CARPET
- F3 SEALED CONCRETE
- F4 PORCELAIN TILE
- F5 WALK-OFF MAT

BASE:

- B1 RUBBER BASE
- B2 COVED PORCELAIN TILE
- B3 4" V.G. FIR BASE TO MATCH EXIST.

1. MATERIALS IN SIMILAR LOCATIONS ARE NOT KEYNOTED AT EVERY OCCURRENCE.

2. PROVIDE CONCRETE MOISTURE SEALER ALL AREAS TO RECEIVE VCT, CARPET, SHEET VINYL, WALK-OFF MAT AND/OR RUBBER FLOORING.

3. NO BASE AT STOREFRONT WALLS TYP.

4. SCHEDULED BASE TO BE PROVIDED AT ALL MILLWORK LOCATIONS, NEW AND EXISTING, INCLUDING ISLANDS.

GENERAL NOTES

1. CONTRACTOR TO VERIFY EXISTING CONDITIONS PRIOR TO BID AND CONSTRUCTION
2. CONTRACTOR TO VERIFY FIELD DIMENSION PRIOR TO FABRICATING.
3. ADD BLOCKING AND FILLER TO MATCH CABINET AT ADJACENT WALLS.
4. PROVIDE SCHEDULED BASE AT ALL CABINETS U.N.O.
5. PROVIDE MATCHING BACKSPLASH AT BACK AND SIDE OF ALL COUNTERTOPS ADJACENT TO A WALL.

UVSC Science Building
Phase III
Utah Valley State College
Schematic Design

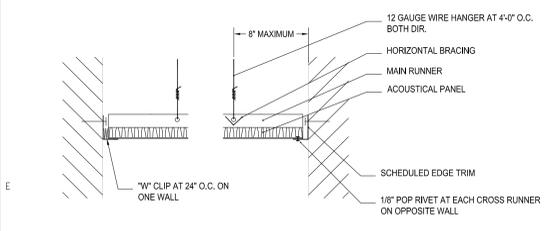
Revision # Date

Axis Job #	0626
Owner #	06317790
Date	01-11-07
Drawn	
Checked	

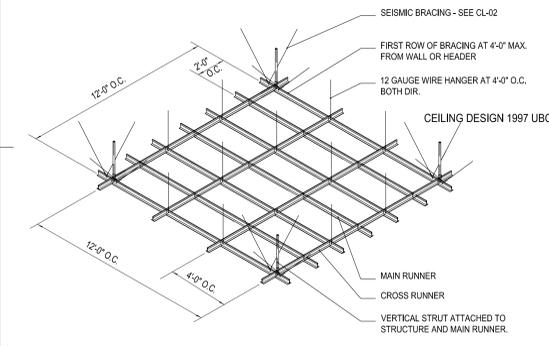
INTERIOR ELEVATIONS

AE501

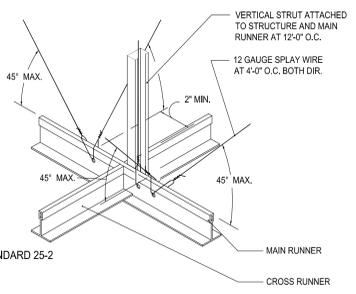
Axis Architects
382 SOUTH DENVER STREET (405) 645-7171
SALT LAKE CITY, UTAH 84111
P. 355-5003 F. 355-0113



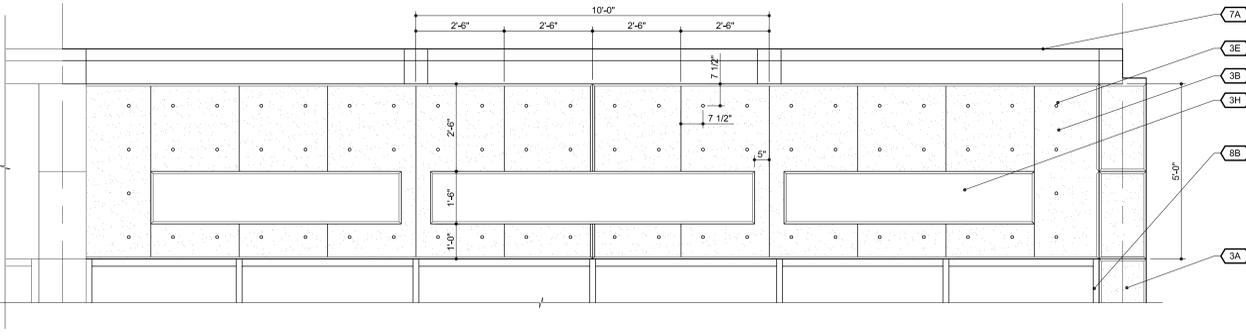
NOTE:
 1. NO SPLAY WIRE SHOULD BEND AROUND EQUIPMENT, DUCTS OR OTHER WIRES.
 2. ALL SPLAY WIRES TO BE IN LINE WITH ATTACHED RUNNER.
 3. ADDITIONAL SPLAY WIRE ARE REQUIRED WITHIN 3" OF EACH CORNER OF LIGHT FIXTURES.
 4. NO SPLAY WIRE SHALL BE CLOSER THAN 6" FROM ANY UNBRACED DUCT OR PIPE.
 5. ATTACH SPLAY WIRES TO JOISTS AND RUNNERS W/ 4 TIGHT TURNS IN 2 INCHES



E1 SUSPENDED CEILING DETAIL
 SCALE: N.T.S.



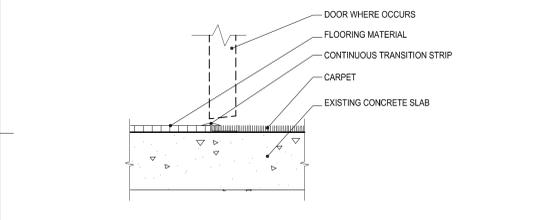
E2 SUSPENDED CEILING DETAIL
 SCALE: 3/4"=1'-0"



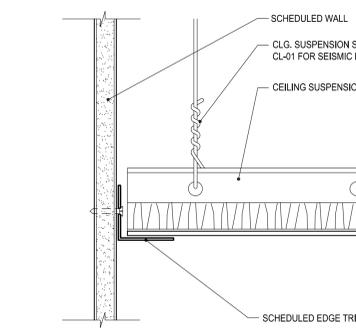
E5 CONCRETE BEAM ELEVATION
 SCALE: 1/2"=1'-0"

KEYNOTE LEGEND 1A
 ELEVATIONS

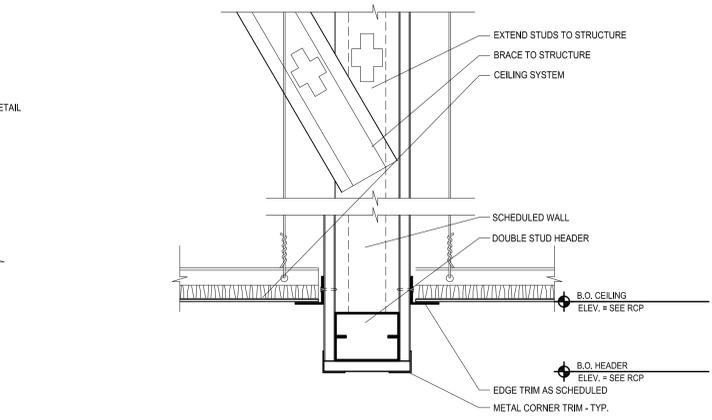
- 3 - CONCRETE:
 - 3A NEW CONCRETE COLUMN - SEE STRUCT.
 - 3B NEW CONCRETE BEAM - SEE STRUCT.
 - 3C CONTROL JOINT
 - 3D FORM JOINT
 - 3E CONCRETE TIE
 - 3F EXISTING CONC. COLUMN TO REMAIN
 - 3G EXISTING CONC. BEAM TO REMAIN
 - 3H RECESS IN CONC. PAINTED TO MATCH WINDOWS
 - 3I NEW CONCRETE SLAB - SEE STRUCT.
- 4 - MASONRY
 - 4A BRICK VENER
- 7 - THERMAL AND MOISTURE PROTECTION:
 - 7A CONT. PRE-FINISHED METAL FLASHING
 - 7B RIGID INSULATION - SEE ROOF DETAILS
- 8 - DOORS AND WINDOWS:
 - 8A SCHEDULED DOOR AND FRAME
 - 8B SCHEDULED WINDOW SYSTEM
- 15 - MECHANICAL:
 - 15A MECH. LOUVER - PAINTED WITH UVSC COLORS.
- 16 - ELECTRICAL:
 - 16A LIGHT FIXTURE - SEE SCHEDULE



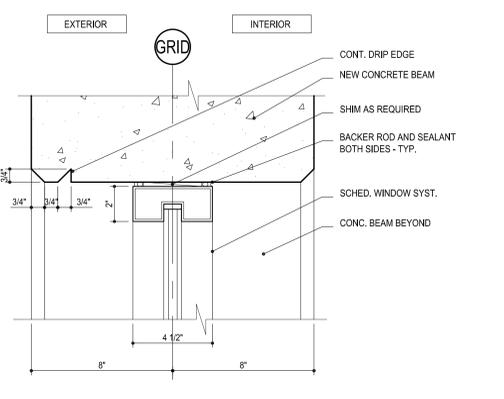
D1 TRANSITION DETAIL
 SCALE: 3/4"=1'-0"



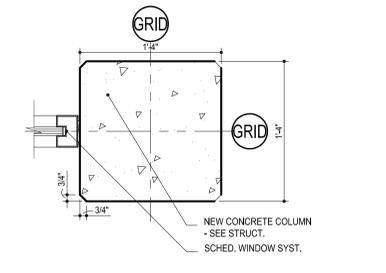
C2 SUSPENDED CEILING DETAIL
 SCALE: 3/4"=1'-0"



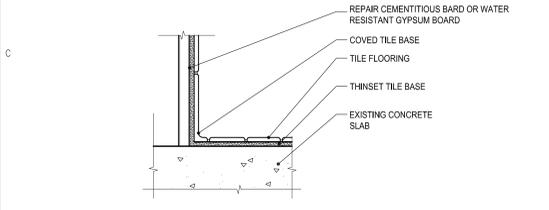
C3 CEILING DETAIL
 SCALE: 3/4"=1'-0"



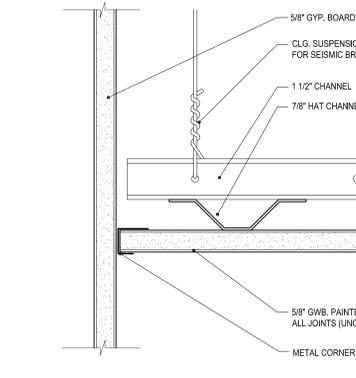
C5 WINDOW HEAD DETAIL
 SCALE: 3/4"=1'-0"



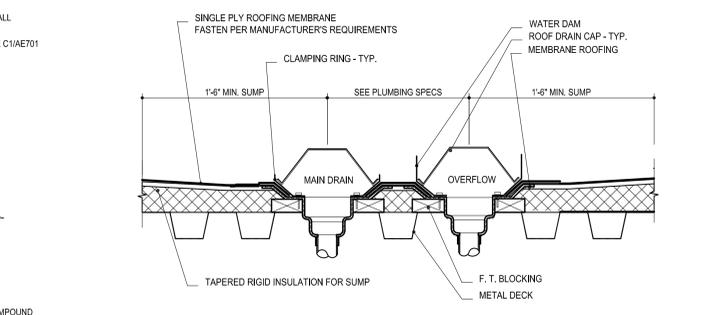
C6 CONCRETE COLUMN DETAIL
 SCALE: 1/2"=1'-0"



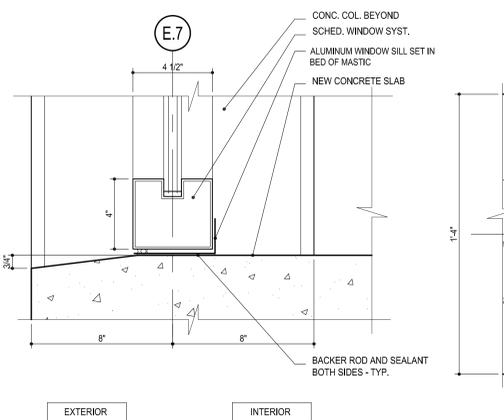
C1 TILE BASE DETAIL
 SCALE: 3/4"=1'-0"



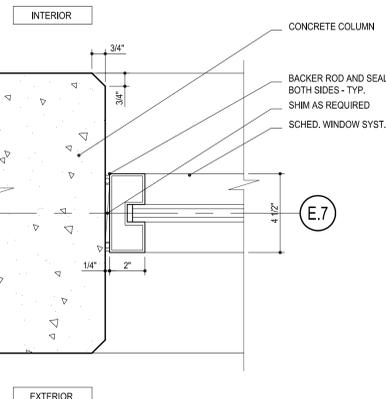
B2 GYP. BOARD CEILING DETAIL
 SCALE: 3/4"=1'-0"



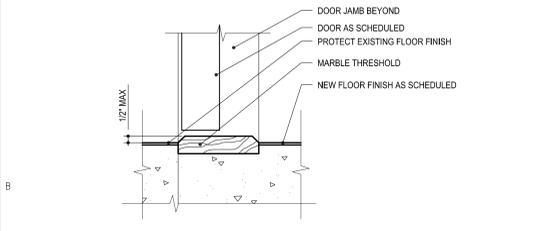
B3 ROOF DRAIN DETAIL
 SCALE: 1/2"=1'-0"



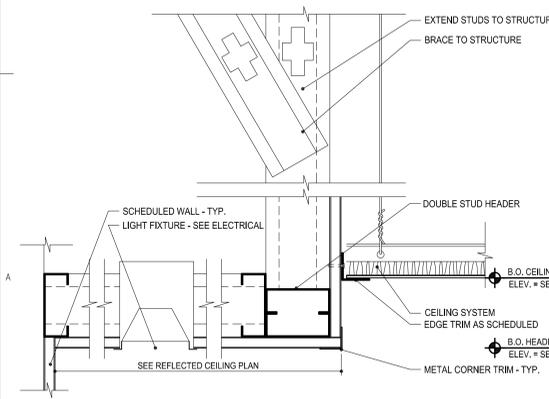
B5 WINDOW SILL DETAIL
 SCALE: 3/4"=1'-0"



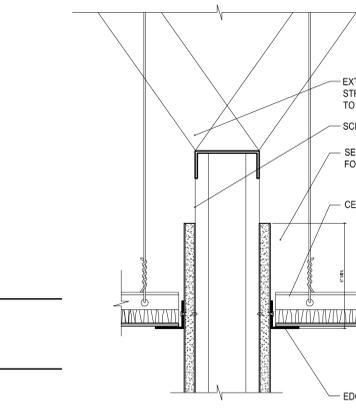
B6 WINDOW JAMB DETAIL
 SCALE: 3/4"=1'-0"



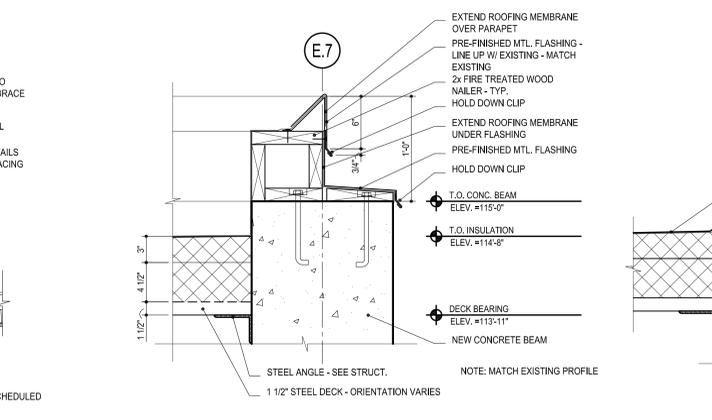
B1 THRESHOLD DETAIL
 SCALE: 3/4"=1'-0"



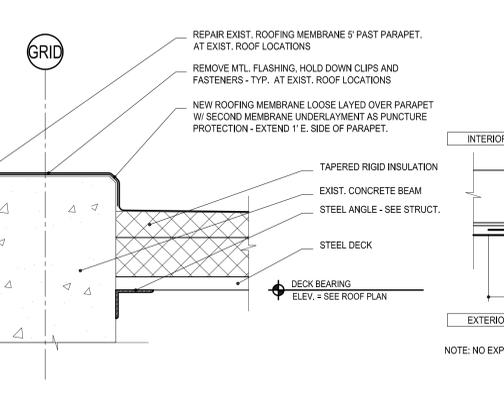
A1 CEILING DETAIL
 SCALE: 1/2"=1'-0"



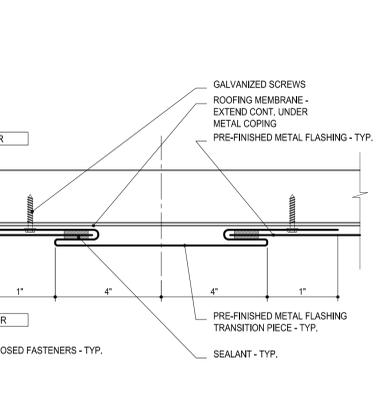
A2 CEILING DETAIL
 SCALE: 1/2"=1'-0"



A3 ROOF EDGE DETAIL
 SCALE: 1/2"=1'-0"



A5 ROOF DETAIL
 SCALE: 1/2"=1'-0"



A6 ROOF EDGE DETAIL
 SCALE: N.T.S.

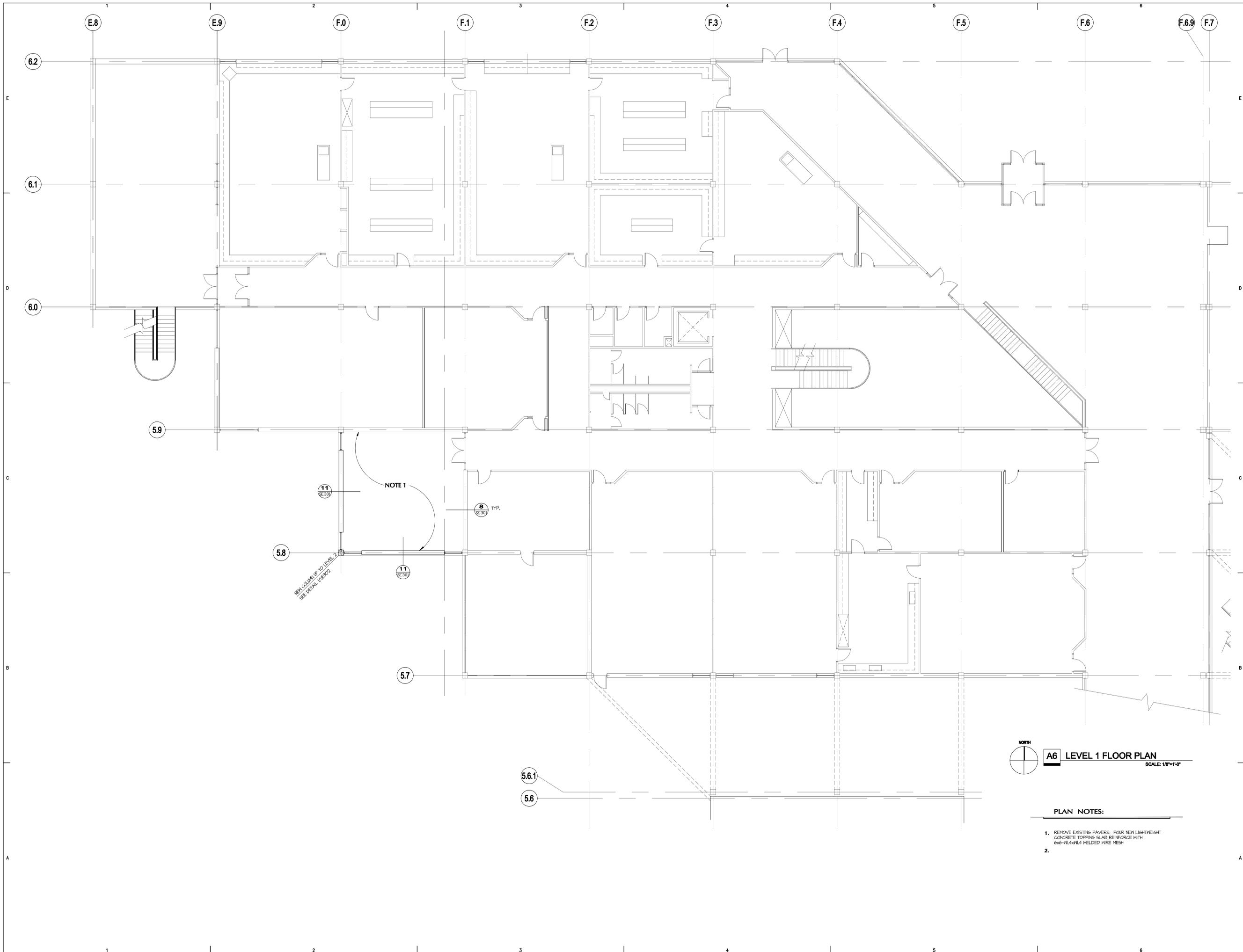
UVSC Science Building
Phase III
 Utah Valley State College
 Schematic Design

Revision #	Date

Axis Job #	0626
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Drawn	
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AE601

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 362 SOUTH BENDERS STREET (405) 465-7111
 SALT LAKE CITY, UTAH 84111
 F 355-5003



A6 LEVEL 1 FLOOR PLAN
SCALE: 1/8"=1'-0"

PLAN NOTES:

1. REMOVE EXISTING PAVERS. POUR NEW LIGHTWEIGHT CONCRETE TOPPING SLAB REINFORCE WITH 6x6-W4xW4 WELDED WIRE MESH
- 2.

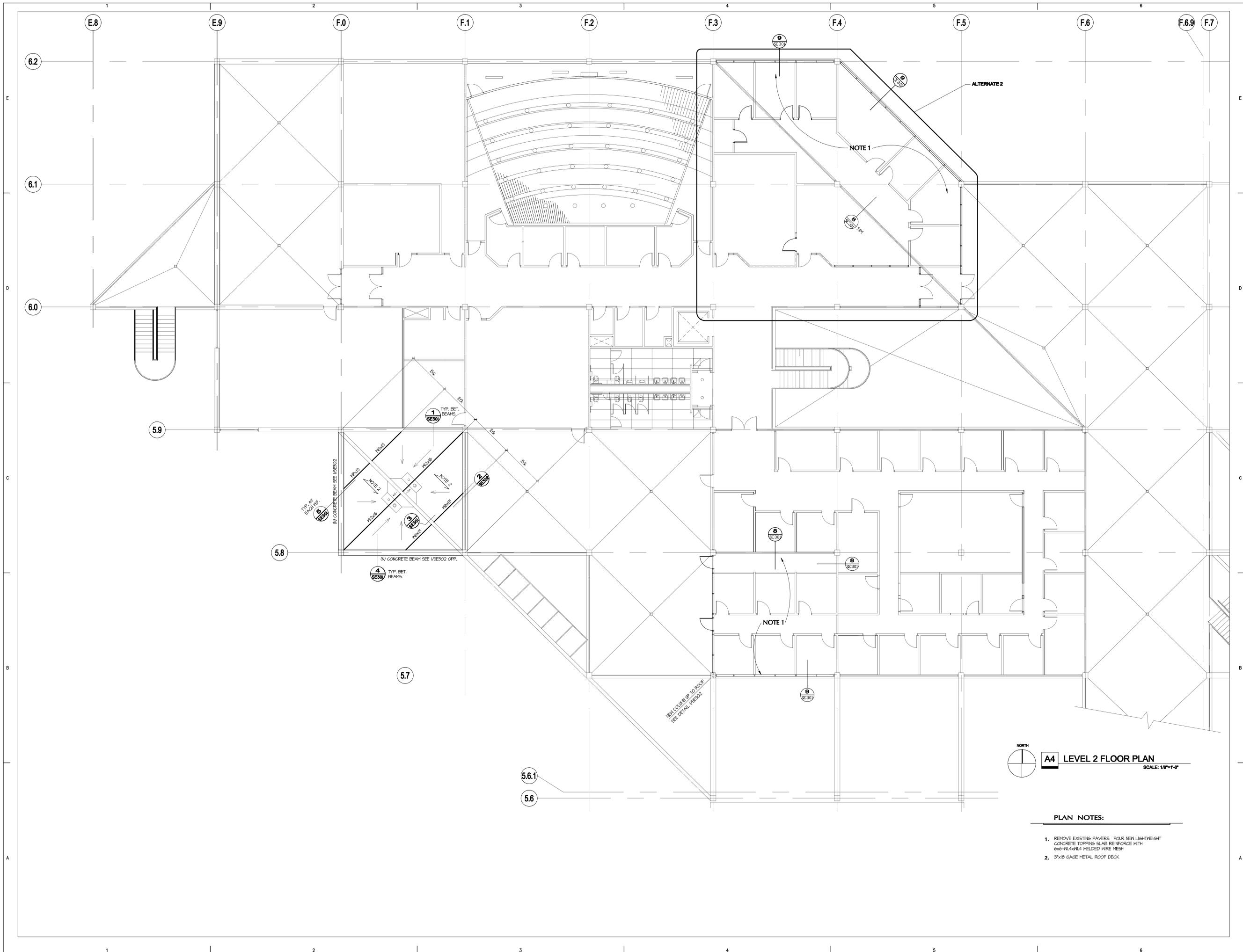
**UVSC Science Building
Phase III**
Utah Valley State College

Revision # Date

Axis Job #
Owner #
Date **03-22-2007**
Drawn **BRENT**
Checked **PETER**

Floor Plan
Level 1

SE101



A4 LEVEL 2 FLOOR PLAN
SCALE: 1/8"=1'-0"

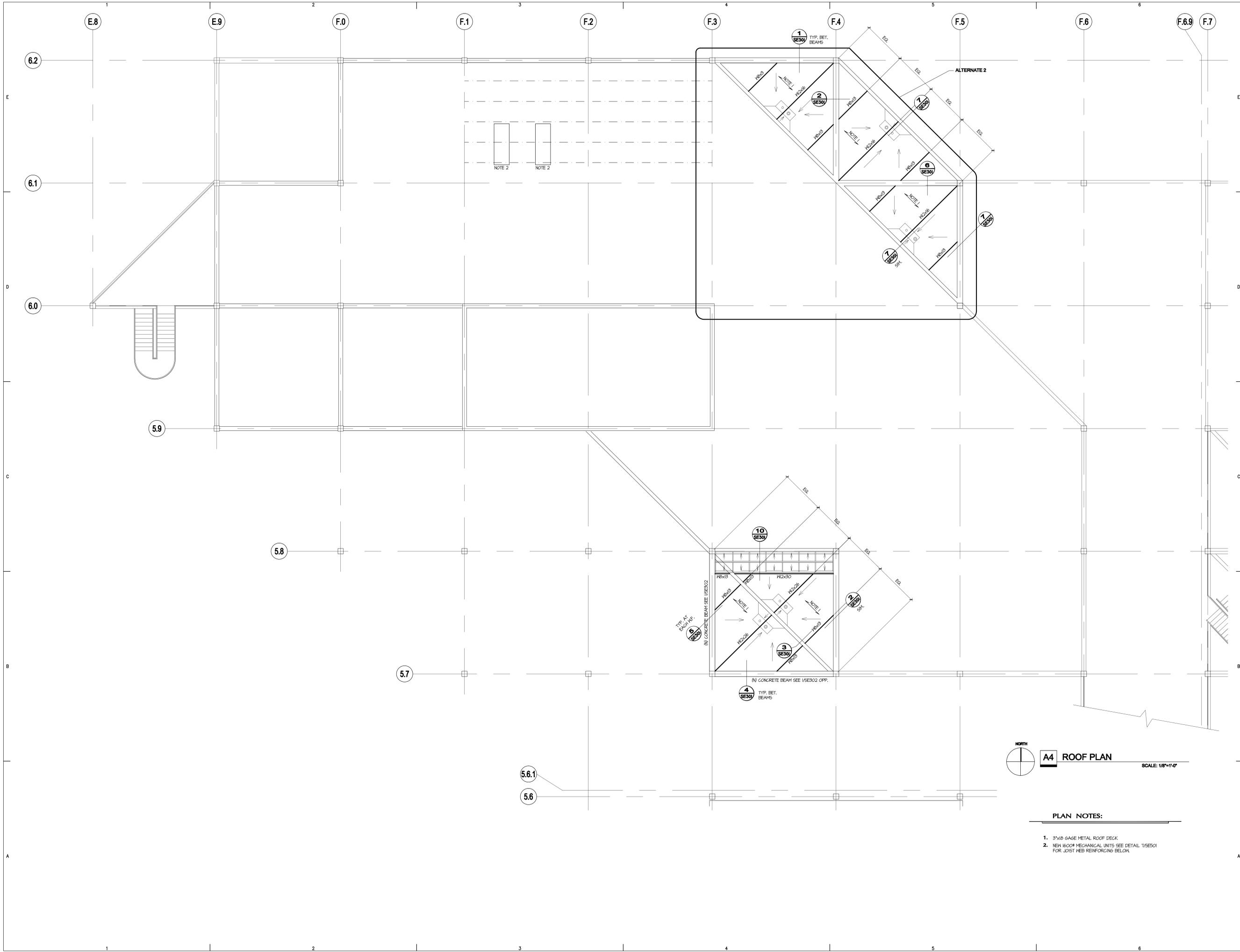
- PLAN NOTES:**
1. REMOVE EXISTING PAVERS, POUR NEW LIGHTWEIGHT CONCRETE TOPPING SLAB REINFORCE WITH 6x6x1/4" W/4" WELDED WIRE MESH
 2. 3"x18" GAGE METAL ROOF DECK

**UVSC Science Building
Phase III**
Utah Valley State College

Revision # Date

Axis Job #
Owner #
Date **03-22-2007**
Drawn **BRENT**
Checked **PETER**

Floor Plan
Level 2



NORTH
A4 ROOF PLAN
 SCALE: 1/8"=1'-0"

PLAN NOTES:

1. 3"x18" GAGE METAL ROOF DECK
2. NEW 1600R MECHANICAL UNITS SEE DETAIL 1/SE301 FOR JOIST WEB REINFORCING BELOW.

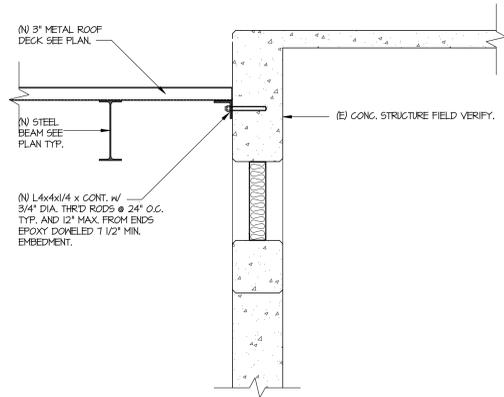
**UVSC Science Building
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 Utah Valley State College

Revision # Date

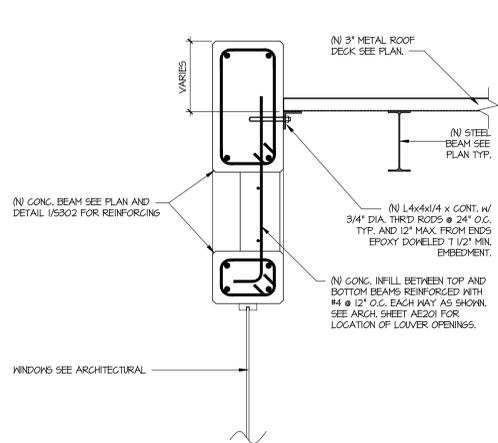
Axis Job #
 Owner #
 Date **03-22-2007**
 Drawn **TR**
 Checked **PETER**

ROOF PLAN

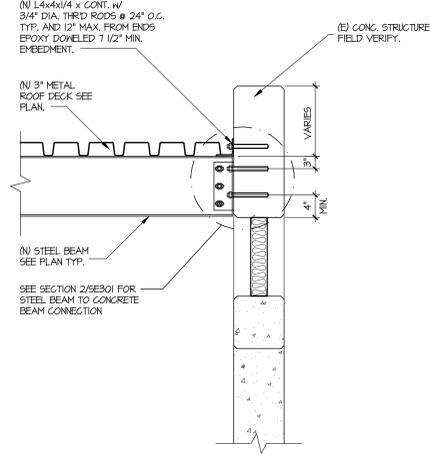
SE103



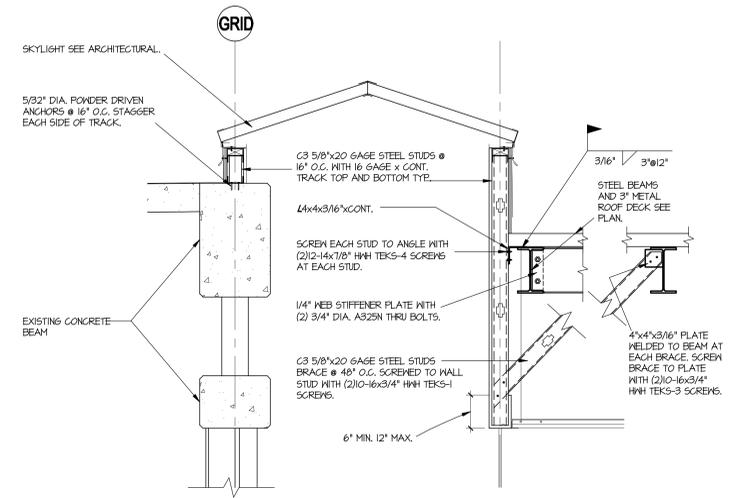
1
SCALE: 3/4" = 1'-0" SE301



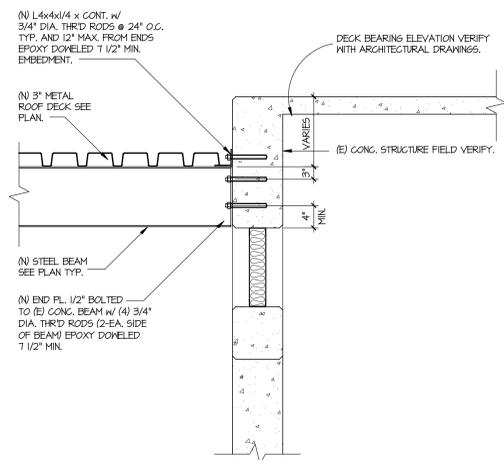
4
SCALE: 3/4" = 1'-0" SE301



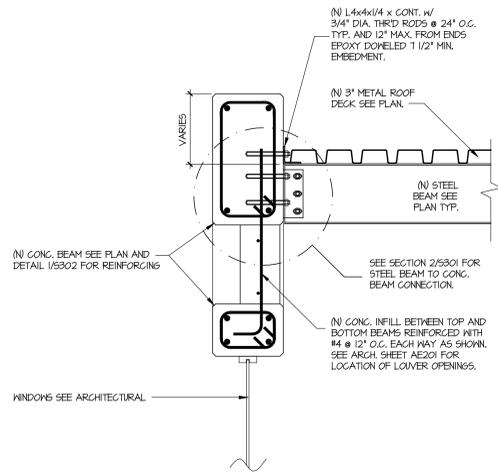
7
SCALE: 3/4" = 1'-0" SE301



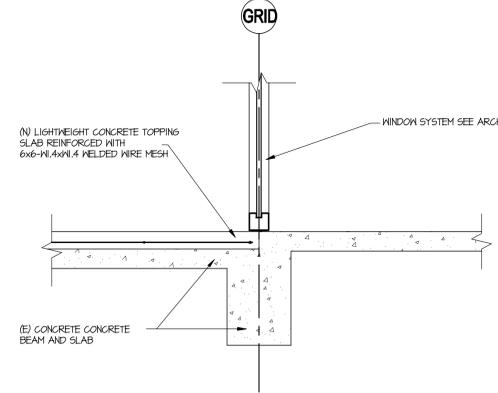
10
SCALE: 3/4" = 1'-0" SE301



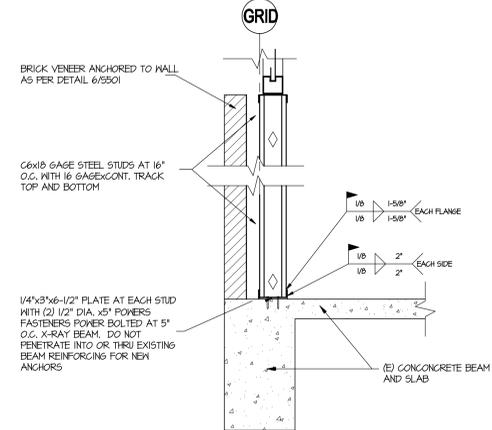
2
SCALE: 3/4" = 1'-0" SE301



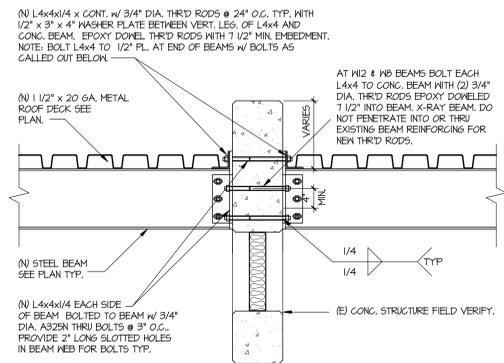
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SCALE: 3/4" = 1'-0" SE301



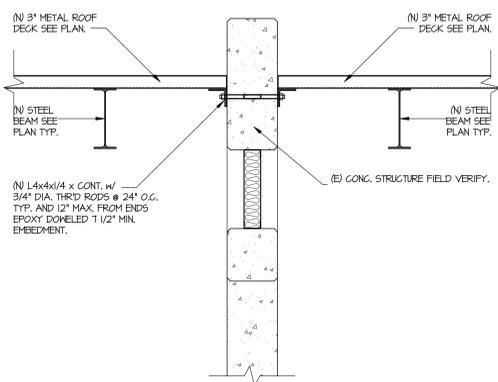
8
SCALE: 3/4" = 1'-0" SE301



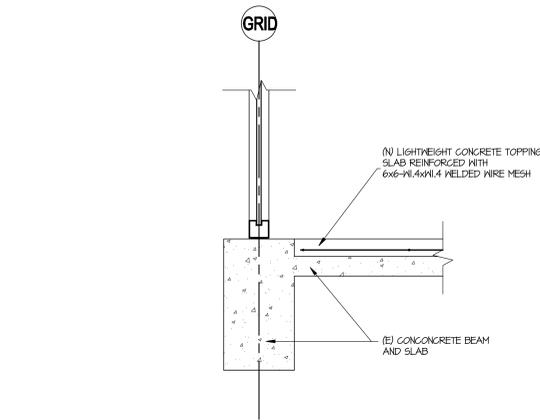
11
SCALE: 3/4" = 1'-0" SE301



3
SCALE: 3/4" = 1'-0" SE301



6
SCALE: 3/4" = 1'-0" SE301

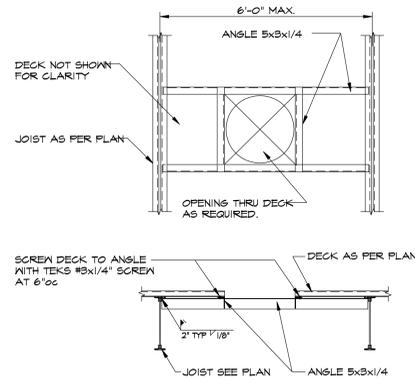


9
SCALE: 3/4" = 1'-0" SE301

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Utah Valley State College

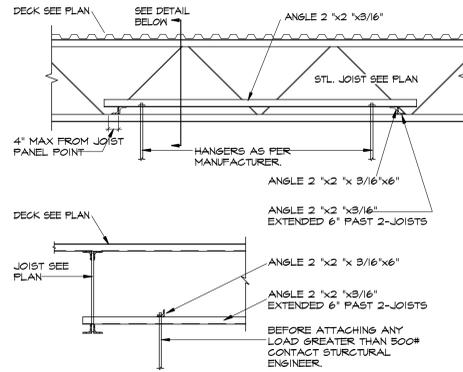
Revision #	Date
Axis Job #	
Owner #	
Date	03-22-2007
Drawn	BRENT
Checked	PETER

STRUCTURAL DETAILS



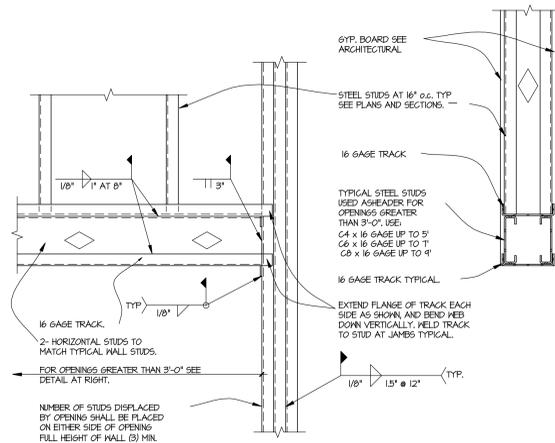
TYPICAL CONDITION REQUIRED AT ROOF AREA WITH LOADS OF 150# OR LESS AND AT ALL ROOF DRAINS.

1
SCALE: N.T.S. = 1'-0" SE501

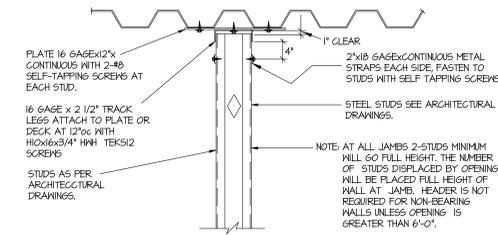


THIS ATTACHMENT IS TO BE USED FOR HANGING UNITS WEIGHING 100# UP TO 500# MAXIMUM.

2
SCALE: N.T.S. = 1'-0" SE501

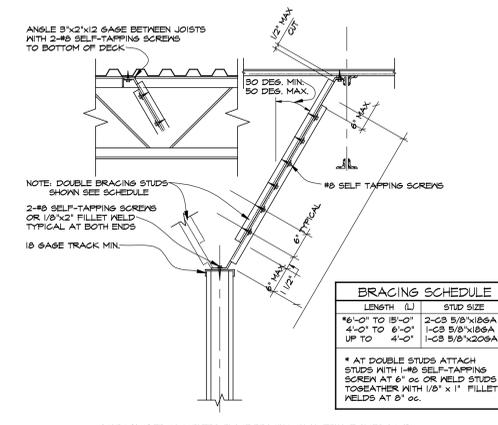


3
SCALE: N.T.S. = 1'-0" SE501



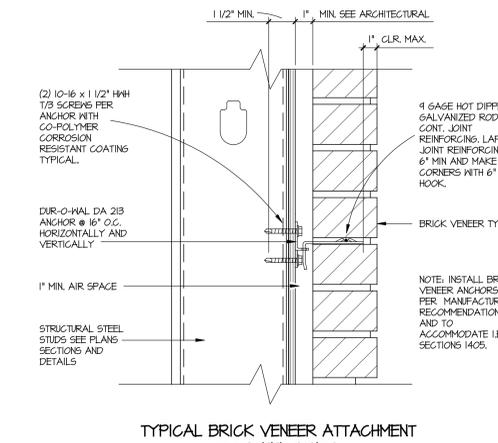
SUPPORT OF NON-BEARING STUD WALLS

4
SCALE: N.T.S. = 1'-0" SE501



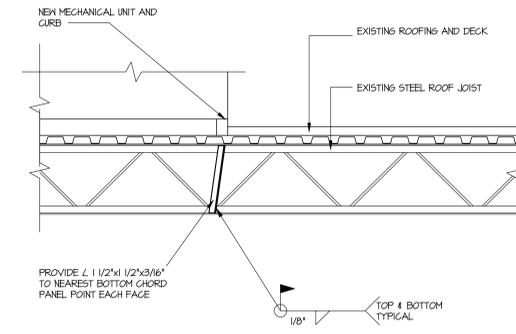
TYPICAL BRACING OF A NON-BEARING STEEL STUD PARTITION WALL

5
SCALE: N.T.S. = 1'-0" SE501



TYPICAL BRICK VENEER ATTACHMENT TO STEEL STUDS

6
SCALE: N.T.S. = 1'-0" SE501



7
SCALE: N.T.S. = 1'-0" SE501

SYMBOL LEGEND	
SYMBOL	DESCRIPTION
REFERENCE AND LINE SYMBOLS	
	DETAIL INDICATOR: # INDICATES DETAIL NUMBER, SHEET INDICATES DRAWING SHEET WHERE DETAIL IS SHOWN.
	ELEVATION OR SECTION INDICATOR, EXTERIOR: # INDICATES ELEVATION OR SECTION NUMBER, SHEET INDICATES DRAWING SHEET WHERE ELEVATION OR SECTION IS SHOWN.
	ELEVATION OR SECTION INDICATOR, INTERIOR: # INDICATES ELEVATION OR SECTION NUMBER, SHEET INDICATES DRAWING SHEET WHERE ELEVATION OR SECTION IS SHOWN.
	ROOM OR SPACE NUMBER.
	KEYNOTE INDICATOR.
	REVISION INDICATOR.
	EQUIPMENT INDICATOR.
	PLUMBING FIXTURE INDICATOR.
	DIFFUSER/GRILLE INDICATOR.
	DIFFUSER/GRILLE INDICATOR.
	BREAK, STRAIGHT.
	BREAK, ROUND.
	MATCH LINE INDICATOR
	HIDDEN FEATURES LINE: HIDDEN, THIN LINE.
	CONTRACT LIMIT LINE: DASHDOT, WIDE LINE.
	NEW CONNECTION POINT TO EXISTING

SYMBOL LEGEND	
SYMBOL	DESCRIPTION
HVAC SYMBOLS	
	THERMOSTAT
	TEMPERATURE SENSOR
	HUMIDISTAT
HVAC PIPING	
	HIGH PRESSURE STEAM
	MEDIUM PRESSURE STEAM
	LOW PRESSURE STEAM
	HIGH PRESSURE RETURN
	MEDIUM PRESSURE RETURN
	LOW PRESSURE RETURN
	PUMP DISCHARGE
	HOT WATER SUPPLY
	HOT WATER RETURN
	TEMPERED WATER SUPPLY
	CHILLED WATER SUPPLY
	CHILLED WATER RETURN
	REFRIGERANT LIQUID
	REFRIGERANT SUCTION
	CONDENSER WATER SUPPLY
	CONDENSER WATER RETURN
	DRAIN LINE
	HOT GAS BYPASS
	GLYCOL SUPPLY
	GLYCOL RETURN
	FUEL OIL SUCTION
	FUEL OIL RETURN
	FUEL OIL VENT
	EXISTING PIPE
	EXISTING PIPE TO BE REMOVED

DEFINITIONS	
NOTE: ALL DEFINITIONS MAY NOT BE USED.	
INDICATED: THE TERM "INDICATED" REFERS TO GRAPHIC REPRESENTATIONS, NOTES, OR SCHEDULES ON THE DRAWINGS, OTHER PARAGRAPHS OR SCHEDULES IN THE SPECIFICATIONS, AND SIMILAR REQUIREMENTS IN THE CONTRACT DOCUMENTS, WHERE TERMS SUCH AS "SHOWN", "NOTED", "SCHEDULED", AND "SPECIFIED" ARE USED, IT IS TO HELP THE READER LOCATE THE REFERENCE, NO LIMITATION ON LOCATION IS INTENDED.	
DIRECTED: TERMS SUCH AS "DIRECTED", "REQUESTED", "AUTHORIZED", "SELECTED", "APPROVED", "REQUIRED", AND "PERMITTED" MEAN "DIRECTED BY THE ENGINEER", "REQUESTED BY THE ENGINEER", AND SIMILAR PHRASES.	
APPROVE: THE TERM "APPROVED", WHEN USED IN CONJUNCTION WITH THE ENGINEER'S ACTION ON THE CONTRACTOR'S SUBMITTALS, APPLICATIONS, AND REQUESTS, IS LIMITED TO THE ENGINEER'S DUTIES AND RESPONSIBILITIES AS STATED IN GENERAL AND SUPPLEMENTARY CONDITIONS.	
FURNISH: THE TERM "FURNISH" IS USED TO MEAN "SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS."	
INSTALL: THE TERM "INSTALL" IS USED TO DESCRIBE OPERATIONS AT PROJECT SITE INCLUDING THE ACTUAL "UNLOADING, UNPACKING, ASSEMBLY, ERECTION, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS TO MAKE THE ITEM FULLY OPERATIONAL."	
PROVIDE: THE TERM "PROVIDE" MEANS "TO FURNISH AND INSTALL COMPLETE AND READY FOR THE INTENDED USE."	
INSTALLER: AN "INSTALLER" IS THE CONTRACTOR OR AN ENTITY ENGAGED BY THE CONTRACTOR, EITHER AS AN EMPLOYEE, SUBCONTRACTOR, OR SUB-SUBCONTRACTOR, FOR PERFORMANCE OF A PARTICULAR CONSTRUCTION ACTIVITY, INCLUDING INSTALLATION, ERECTION, APPLICATION, AND SIMILAR OPERATIONS. INSTALLERS ARE REQUIRED TO BE EXPERIENCED IN THE OPERATIONS THEY ARE ENGAGED TO PERFORM.	

SYMBOL LEGEND		
SYMBOL	DESCRIPTION	
DUCTWORK		
	DOUBLE LINE	DESCRIPTION
		RECTANGULAR SUPPLY DUCT UP
		RECTANGULAR SUPPLY DUCT DOWN
		RECTANGULAR RETURN DUCT UP
		RECTANGULAR RETURN DUCT DOWN
		RECTANGULAR EXHAUST DUCT UP
		RECTANGULAR EXHAUST DUCT DOWN
		ROUND DUCT UP
		ROUND DUCT DOWN
		ACOUSTICALLY LINED RECTANGULAR DUCT
		90° RECTANGULAR ELBOW WITH TURNING VANES
		90° RADIUS ELBOW R=1.5
		DUCT SIZE OR SHAPE TRANSITION
		OPPOSED BLADE BALANCING DAMPER (O.B.D.) IN RECT DUCT
		BUTTERFLY BALANCING DAMPER IN ROUND DUCTS
		COMBINATION TEE
		SPLITTER DAMPER
		SQUARE OR RECTANGULAR CEILING DIFFUSER
		ROUND CEILING DIFFUSER
		SIDEWALL REGISTER SUPPLY OR RETURN
		ROUND FLEXIBLE DUCT
		RETURN GRILLE
		EXHAUST GRILLE
		FIRE/SMOKE DAMPER
		FIRE DAMPER
		SMOKE DAMPER
		FLEXIBLE CONNECTION
		EXISTING DUCT
		DUCT TO BE REMOVED

- ### GENERAL MECHANICAL NOTES (CONT.)
- THE DIVISION 15 CONTRACTOR SHALL, DURING CONSTRUCTION, MAINTAIN A SET OF AS-BUILT, REDLINED RECORD DRAWINGS AT THE PROJECT SITE. ALL CHANGES IN LAYOUT, ROUTING, EQUIPMENT, COMPONENTS, AND ACCESSORIES SHALL BE RECORDED. THESE REDLINES SHALL BE GIVEN TO THE ARCHITECT/ENGINEER AFTER THE FINAL INSPECTION.
 - ALL CEILING DIFFUSERS SHOWN AS SUCH ARE CD-1, CFM AS NOTED, UNLESS OTHERWISE NOTED. REFER TO DETAIL 2/ME501.
 - ALL CEILING RETURN GRILLES SHOWN AS SUCH ARE RG-1 UNLESS OTHERWISE NOTED.
 - DO NOT ROUTE DUCTS AND PIPES ABOVE ELECTRICAL PANELS. ALL ELECTRICAL PANELS MUST HAVE CLEAR ACCESS SPACE IN FRONT OF PANEL 4'-0" DEEP AND 6'-6" HIGH. DO NOT ROUTE DUCTS AND PIPES IN ELECTRICAL ROOMS, EXCEPT DUCTS AND PIPES SERVING THE ROOM.
 - COORDINATE EXACT LOCATIONS OF CEILING DIFFUSERS AND GRILLES WITH ARCHITECTURAL REFLECTED CEILING PLAN.
 - REFER TO REHEAT BOX DETAIL 4/ME501 & 5/ME501.
 - ALL DUCT DIMENSIONS ARE INSIDE FREE AREA DIMENSIONS. ADJUST SHEET METAL DIMENSION FOR LINED DUCT.
 - ALL FIRE DAMPERS SHOWN ARE 1-1/2 HOUR UNLESS OTHERWISE NOTED.
 - IF CONTRACTOR ENCOUNTERS MATERIAL WHICH MAY CONTAIN ASBESTOS IMMEDIATELY STOP WORK IN THIS AREA AND NOTIFY THE OWNER.
 - PROVIDE CEILING ACCESS PANELS AS REQUIRED WHERE MECHANICAL EQUIPMENT, VALVES, VAV BOXES, FIRE DAMPERS, ETC. ARE LOCATED ABOVE INACCESSIBLE CEILINGS.
 - ALL DUCT AND FLUE PENETRATIONS THRU 1 HOUR ROOF ASSEMBLY TO BE ENCLOSED WITH 2 SHEET ROCK LAYERS FROM SHEET ROCK AT BOTTOM OF ROOF TRUSSES TO ROOF DECK.
 - STEEL ROOF DECK SHALL NOT BE USED TO SUPPORT LOADS FROM PIPING, DUCTWORK OR EQUIPMENT, UNLESS NOTED OTHERWISE. HANGER LOADS LESS THAN 50 LBS. MAY BE HUNG FROM THE STEEL ROOF DECK IN CASES WHEN HANGING FROM THE STEEL ROOF DECK CANNOT BE AVOIDED; THE ATTACHMENT METHOD MUST DISTRIBUTE THE LOAD ACROSS THE DECK AS APPROVED BY THE STRUCTURAL ENGINEER.
 - THE EQUIPMENT INSTALLER IS TO APPLY AND SIGN A CERTIFICATION LABEL TO EACH GAS-FIRED APPLIANCE. STARTING THE APPLIANCE HAS BEEN ADJUSTED OR MODIFIED PER MANUFACTURER'S REQUIREMENTS FOR OPERATION AT THE PROJECT ALTITUDE AND WITH THE BTU-CONTENT OF THE AVAILABLE FUEL-GAS.

- ### GENERAL MECHANICAL NOTES
- PROVIDE ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY TO CONSTRUCT A COMPLETE, OPERATIONAL HVAC SYSTEM FOR THE ENTIRE PROJECT AS SHOWN ON THESE DRAWINGS, INCLUDING ALL NECESSARY FEES AND PERMITS.
 - THE ENTIRE INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF THE MOST RECENTLY ADOPTED BUILDING CODE, MECHANICAL CODE, PLUMBING CODE, ELECTRICAL CODE, AND ALL OTHER APPLICABLE CITY, COUNTY, SCHOOL DISTRICT, STATE, AND FEDERAL CODES AND REGULATIONS IN EFFECT AT THE DATE OF THE BID. CONFORM TO ANY CODES, RULES, REGULATIONS AND REQUIREMENTS THAT THE PROJECT OWNER HAS.
 - PRIOR TO FABRICATION AND INSTALLATION, COORDINATE THE INSTALLATION OF ALL HVAC PIPING, DUCTWORK, AND EQUIPMENT WITH PLUMBING, PLUMBING EQUIPMENT, REFRIGERATION TRENCHES AND PIPING, FIRE PROTECTION PIPING AND ALL OTHER TRADES INCLUDING BUT NOT LIMITED TO THE MECHANICAL CONTRACTOR, REFRIGERATION CONTRACTOR, ELECTRICAL CONTRACTOR, FIRE PROTECTION CONTRACTOR, GENERAL CONTRACTOR, AND ANY CONTRACTOR HIRED DIRECTLY BY THE OWNER. WHERE CONFLICTS MAY OCCUR, THEY SHALL BE RESOLVED PRIOR TO INSTALLATION.
 - THE DRAWINGS SHOW THE GENERAL DESIGN, ARRANGEMENTS AND THE EXTENT OF THE SYSTEM. IT SHALL BE THE WORK OF THE CONTRACTOR TO MAKE SUCH SLIGHT ALTERATIONS AS MAY BE NECESSARY TO MAKE THE SYSTEM COMPLETE AND OPERATIONAL IN ACCORDANCE WITH THE DESIGN INTENT. MAJOR DEVIATIONS SUCH AS CHANGES IN COMPONENT SIZES, WEIGHTS, QUANTITIES, OR MATERIAL REQUIRE PRIOR APPROVAL BY THE CONSULTING ENGINEER.
 - ALL HVAC INFORMATION IS NOT SHOWN ON THE HVAC DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING INFORMATION ON ALL OTHER CONSTRUCTION DOCUMENTS INCLUDING ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL AND REFRIGERATION DRAWINGS.
 - THE WORKING DRAWINGS ARE DIAGRAMMATIC. BECAUSE OF THE SMALL SCALE OF THE DRAWINGS, THEY DO NOT SHOW EVERY OFFSET, BEND OR ELBOW NECESSARY FOR THE COMPLETE INSTALLATION IN THE SPACE PROVIDED. ALL LOCATIONS FOR HVAC EQUIPMENT AND PIPING SHALL BE CHECKED AND COORDINATED WITH THE ARCHITECTURAL, MECHANICAL, STRUCTURAL AND ELECTRICAL DRAWINGS.
 - SPACE ABOVE ALL CEILINGS IS LIMITED. CAREFUL COORDINATION IS REQUIRED WITH ALL TRADES BEFORE ANY PIPE, DUCT, OR EQUIPMENT IS ORDERED AND/OR INSTALLED. ANY CONFLICTS AND/OR CHANGES FOUND DURING INSTALLATION THAT RESULT FROM LACK OF COORDINATION ARE THE RESPONSIBILITY OF THE CONTRACTOR DURING THE SHOP DRAWING PROCESS ARE THE RESPONSIBILITY OF THE CONTRACTOR.
 - THE DRAWINGS AND SPECIFICATIONS HAVE BEEN PREPARED TO SUPPLEMENT EACH OTHER AND THEY SHALL BE INTERPRETED AS AN INTEGRAL UNIT WITH THE ITEMS SHOWN ON ONE AND NOT THE OTHER BEING FURNISHED AND INSTALLED AS THOUGH SHOWN AND CALLED OUT IN BOTH.
 - DETAILS: THE CONTRACTOR IS RESPONSIBLE TO REVIEW AND USE WHERE APPROPRIATE ALL OF THE MECHANICAL DETAILS SHOWN ON THE DRAWINGS. DETAILS MAY OR MAY NOT BE CALLED OUT ON THE DRAWINGS WITH SYMBOLS OR KEYS. ANY CHANGES RESULTING FROM FAILURE TO INSTALL THE MECHANICAL SYSTEM WITHOUT USING THE INCLUDED DETAILS IS THE RESPONSIBILITY OF THE CONTRACTOR.
 - PIPING SCHEMATICS: THE CONTRACTOR IS RESPONSIBLE TO REVIEW THE PIPING SCHEMATICS INCLUDED WITH THE DRAWINGS FOR PIPING CONNECTIONS TO ALL MECHANICAL EQUIPMENT. THE PIPING SCHEMATICS SHOW DETAILED CONNECTIONS INCLUDING NECESSARY VALVES, FITTINGS, PRESSURE AND TEMPERATURE GAUGES, ETC., THAT ARE NOT SHOWN ON THE PIPING PLANS. ANY CHANGES RESULTING FROM FAILURE TO INSTALL THE MECHANICAL SYSTEM WITHOUT USING THE INCLUDED PIPING SCHEMATICS IS THE RESPONSIBILITY OF THE CONTRACTOR.
 - THE STRUCTURE SHOWN ON ALL DETAILS MAY OR MAY NOT PERTAIN TO A PORTION OR ANY PORTION OF THE BUILDING. COORDINATE MOUNTING REQUIREMENTS WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS.
 - ANY PART OF THIS INSTALLATION THAT FAILS, IS UNFIT, OR BECOMES DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
 - COORDINATE THE RETURN OF ALL MECHANICAL EQUIPMENT REMOVED DURING DEMOLITION WITH THE OWNER'S REPRESENTATIVE.
 - ALL EQUIPMENT SHALL PROVIDE THE SCHEDULED PERFORMANCE AT THE SITE ALTITUDE.
 - ALL EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S RECOMMENDATIONS. PROVIDE ALL FITTINGS, TRANSITIONS, VALVES, DAMPERS, AND OTHER DEVICES AND ACCESSORIES REQUIRED FOR A COMPLETE, WORKABLE INSTALLATION.
 - THE DIVISION 15 CONTRACTOR SHALL FURNISH ALL REQUIRED MOTORS. ALL MOTOR STARTING EQUIPMENT, WHEN NOT A PART OF THE EQUIPMENT, WILL BE FURNISHED BY THE ELECTRICAL CONTRACTOR.
 - EXISTING INTERIOR PIPING, EQUIPMENT, AND DUCTWORK HAS BEEN LOCATED IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL VERIFY LOCATIONS AND POINTS OF CONNECTION AND PIPE ROUTING THROUGH EXISTING CONDITIONS PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL PERFORM THE WORK IN A MANNER THAT WILL CAUSE A MINIMUM DISRUPTION TO BUILDING TENANT USE AND SHALL COORDINATE THE WORK WITH THE BUILDING OWNER'S REPRESENTATIVE.
 - THE CONTRACTOR IS RESPONSIBLE FOR HVAC EQUIPMENT CHECK-IN, SAFETY, AND DAMAGE. DO NOT ROUTE DUCTS AND PIPES ABOVE ELECTRICAL PANELS. ALL ELECTRICAL PANELS MUST HAVE CLEAR ACCESS SPACE IN FRONT OF PANEL 4'-0" DEEP AND 6'-6" HIGH. DO NOT ROUTE DUCTS AND PIPES IN ELECTRICAL ROOMS, EXCEPT DUCTS AND PIPES SERVING THE ROOM.
 - DO NOT ROUTE DUCTS AND PIPES ABOVE ELECTRICAL PANELS. ALL ELECTRICAL PANELS MUST HAVE CLEAR ACCESS SPACE IN FRONT OF PANEL 4'-0" DEEP AND 6'-6" HIGH. DO NOT ROUTE DUCT AND PIPES IN ELECTRICAL ROOMS, EXCEPT DUCTS AND PIPES SERVING THE ROOM.
 - COORDINATE EXACT LOCATIONS OF CEILING DIFFUSERS AND GRILLES WITH ARCHITECTURAL REFLECTED CEILING PLAN.
 - ALL FIRE DAMPERS SHOWN ARE 1-1/2 HOUR UNLESS OTHERWISE NOTED.
 - IF CONTRACTOR ENCOUNTERS MATERIAL WHICH MAY CONTAIN ASBESTOS, IMMEDIATELY STOP WORK IN THIS AREA AND NOTIFY THE OWNER.
 - PROVIDE CEILING ACCESS PANELS AS REQUIRED WHERE MECHANICAL EQUIPMENT, VALVES, VAV BOXES, FIRE DAMPERS, ETC. ARE LOCATED ABOVE INACCESSIBLE CEILINGS.
 - ENCLOSE ALL DUCT AND FLUE PENETRATIONS THROUGH 1 HOUR ROOF ASSEMBLY WITH 2 SHEET ROCK LAYERS FROM SHEET ROCK CEILING AT BOTTOM OF ROOF TRUSSES TO ROOF DECK.
 - DO NOT USE STEEL ROOF DECK TO SUPPORT LOADS FROM PIPING, DUCTWORK OR EQUIPMENT. HANGER LOADS LESS THAN 50 LBS. MAY BE HUNG FROM THE STEEL ROOF DECK IN CASES WHERE HANGING FROM THE STEEL ROOF DECK CANNOT BE AVOIDED. THE ATTACHMENT METHOD MUST DISTRIBUTE THE LOAD ACROSS THE DECK AS APPROVED BY THE STRUCTURAL ENGINEER.
 - PROPERLY LUBRICATE ALL PIECES OF EQUIPMENT BEFORE TURNING THE SYSTEM OVER TO THE OWNER.
 - PREPARE 6 COPIES OF SUBMITTALS IN AN INDEXED, LABELED FOLDER CONTAINING FULL PERFORMANCE, MATERIAL AND INSTALLATION INFORMATION ABOUT ALL EQUIPMENT, PIPING, COMPONENTS AND ACCESSORIES TO BE USED. SUBMITTALS WILL BE CHECKED AT MOST TWICE (SUBSEQUENT) ON SUBSEQUENT SUBMITTALS WILL BE BILLED TO THE CONTRACTOR BY THE ENGINEER AT ITS CURRENT HOURLY RATES.
 - TWO OPERATING AND MAINTENANCE MANUALS SHALL BE PROVIDED IN HARD BACK LOOSE LEAF BINDERS. MANUALS SHALL CONTAIN PRODUCT CUT SHEETS AND OPERATING AND MAINTENANCE INSTRUCTIONS ON ALL EQUIPMENT, ACCESSORIES, FIXTURES, VALVES, ETC., PROVIDED FOR THE PROJECT.
 - UPON COMPLETION OF THE WORK, REMOVE ALL SURPLUS MATERIALS AND RUBBISH. MAKE ALL REQUIRED PATCHING AND REPAIRS OF OTHER TRADES' WORK DAMAGED BY THE DIVISION 15 CONTRACTOR, AND LEAVE THE PREMISES IN A CLEAN, ORDERLY CONDITION.
 - THE DIVISION 15 CONTRACTOR SHALL OPERATE THE SYSTEM AND DEMONSTRATE ALL ASPECTS TO THE ENGINEER AND/OR OWNER, TO PROVE ITS OPERATION. ALL FILTERS USED DURING CONSTRUCTION SHALL BE REPLACED PRIOR TO THE TEST RUN PERIOD.
 - THE DIVISION 15 CONTRACTOR SHALL GUARANTEE THE HVAC SYSTEM FOR A PERIOD OF ONE YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION.

MECHANICAL SHEET INDEX	
SHEET NO	SHEET TITLE
ME001	MECHANICAL SYMBOLS, NOTES AND SHEET INDEX
ME501	MECHANICAL DETAILS
ME601	MECHANICAL SCHEDULES
MD100	LEVEL 0 MECHANICAL DEMOLITION PLAN
MD101	LEVEL 1 MECHANICAL DEMOLITION PLAN
MD102	LEVEL 2 MECHANICAL DEMOLITION PLAN
MH100	LEVEL 0 MECHANICAL PLAN
MH101	LEVEL 1 MECHANICAL PLAN
MH102	LEVEL 2 MECHANICAL PLAN
MP101	LEVEL 1 MECHANICAL PIPING PLAN
MP102	LEVEL 2 MECHANICAL PIPING PLAN

ABBREVIATIONS			
NOTE: ALL ABBREVIATIONS MAY NOT BE USED			
AD	ACCESS DOOR	MCA	MINIMUM CIRCUIT AMPS
AIR COND	AIR CONDITION(-ING, -ED)	MFR	MANUFACTURER
APD	AIR PRESSURE DROP	N/A	NOT APPLICABLE
BD	BALANCING DAMPER	NC	NORMALLY CLOSED
BHP	BRAKE HORSE POWER	NO	NOISE CRITERIA
BTU	BRITISH THERMAL UNIT	NO	NOT IN CONTRACT
BTUH	BTU/HOUR	NO	NORMALLY OPEN
CFM	CUBIC FEET PER HOUR	NPISH	NET POSITIVE SUCTION HEAD
CFM	CUBIC FEET PER MINUTE	NTS	NOT TO SCALE
CLG	COOLING	OD	OUTSIDE AIR
COMP	COMPONENT	OD	OUTSIDE DIAMETER
COND	CONDENSE(-ER, -ING, -ATION)	OZ	OUNCE
CV	CONTROL VALVE	PD	PRESSURE DROP OR DIFFERENCE
CW	COLD WATER	PG	PROPYLENE GLYCOL
DIA	DIAMETER	PH	PHASE
DISCH	DISCHARGE	PFM	PARTS PER MILLION
DEPTH	DEPTH OR DEEP	PRESS	PRESSURE
DB	DRY BULB TEMPERATURE	PSF	POUNDS PER SQUARE FOOT
(E)	EXISTING	PSI	POUNDS PER SQUARE INCH
EFF	EFFICIENCY	PSI	POUNDS PER SQUARE INCH
EG	ETHYLENE GLYCOL	PSIA	PSI ABSOLUTE
ELEC	ELECTRIC	PSIG	PSI GAUGE
ELEV	ELEVATION	R	THERMAL RESISTANCE
ENT	ENTERING	RA	RETURN AIR
EVAP	EVAPORAT(-E, -ING, -ED, -OR)	RECIRC	RECIRCULATE
EWT	ENTERING WATER TEMPERATURE	REFR	REFRIGERATION
EXT	EXTERNAL	REQD	REQUIRED
(F)	FUTURE	RLA	RATED --- AMPS
F	Fahrenheit	RPM	REVOLUTIONS PER MINUTE
FC	FLEXIBLE CONNECT(-OR, -ION)	RW	RAINWATER
FD	FIRE DAMPER	SA	SUPPLY AIR
FLA	FULL LOAD AMPS	SC	SHADING COEFFICIENT
FPI	FEET PER INCH	SCFM	STANDARD CUBIC FEET PER MINUTE
FPM	FEET PER MINUTE	SCW	SOFT COLD WATER
FPS	FEET PER SECOND	SF	SAFETY FACTOR
FSD	FIRE SMOKE DAMPER	SH	SENSIBLE HEAT
FT	FEET	SL	SEA LEVEL
GAL	GALLON(S)	SP	STATIC PRESSURE
GPH	GALLONS PER HOUR	SPEC(S)	SPECIFICATION(S)
GPM	GALLONS PER MINUTE	SO	SQUARE
HT	HEIGHT	STD	STANDARD
HG	MERCURY	STM	STEAM
HR	HOUR	TEMP	TEMPERATURE
HT	HEIGHT	TD	TEMP DROP OR DIFF.
HTG	HEATING	THERM	THERMAL
HP	HORSE POWER	TOT	TOTAL
HZ	HERTZ(FREQUENCY)	TSTAT	THERMOSTAT
ID	INSIDE DIAMETER	V	VOLT
IN	INCH	VAC	VACUUM
KW	KILOWATT	VAV	VARIABLE AIR VOLUME
LAT	LEAVING AIR TEMPERATURE	VEL	VELOCITY
LBS	POUNDS	VENT	VENTILATION
LG	LENGTH	VERT	VERTICAL
LH	LATENT HEAT	VFD	VARIABLE FREQUENCY DRIVE
LRA	LOAD ROTOR AMPS	VOL	VOLUME
LVG	LEAVING WATER TEMPERATURE	WC	WATER COLUMN
LWT	LEAVING WATER TEMPERATURE	WG	WATER GAUGE
MAX	MAXIMUM	WPD	WATER PRESSURE DROP
MBH	THOUSAND BTU PER HOUR	WTR	WATER
		WT	WEIGHT
		WB	WET BULB TEMP
		YR	YEAR

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Construction Documents

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Axis Job #
Owner #
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Mechanical Symbols, Notes and Sheet Index

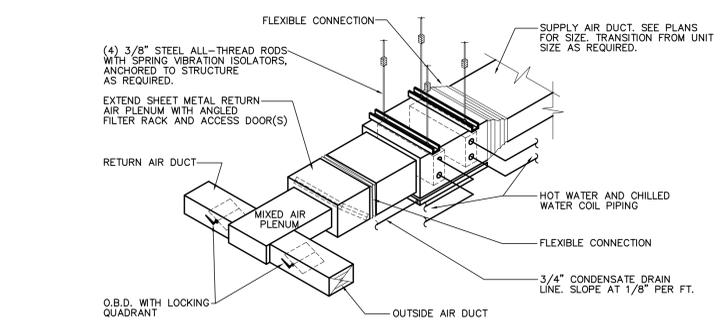
ME001

Axis Architects
352 SOUTH DENVER STREET (440 EAST)
SALT LAKE CITY
P. 355-3003
F. 355-0113
UTAH 84111

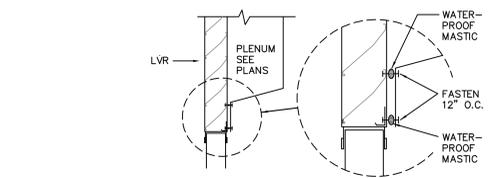
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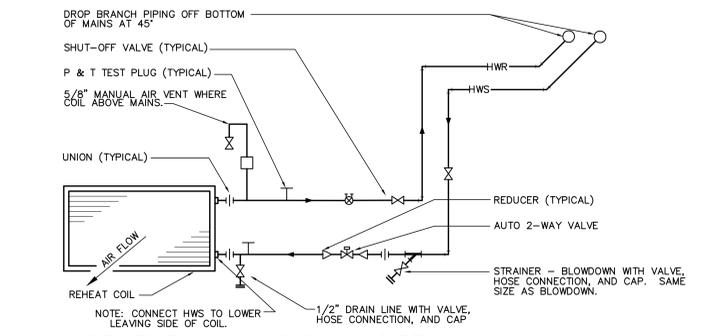
Mechanical Details



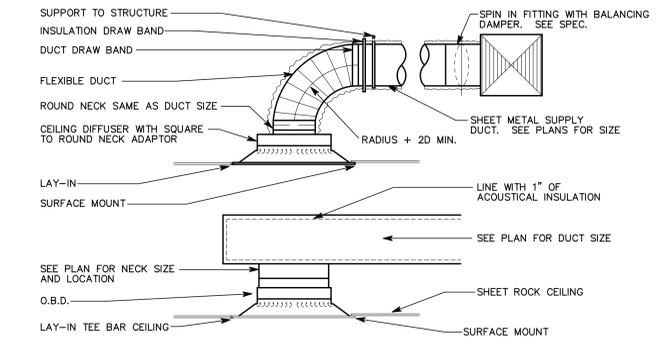
6 FAN COIL UNIT DETAIL
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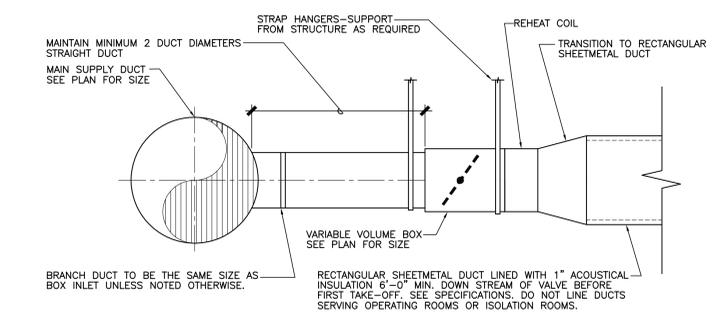
3 LOUVER CONNECTION
SCALE:



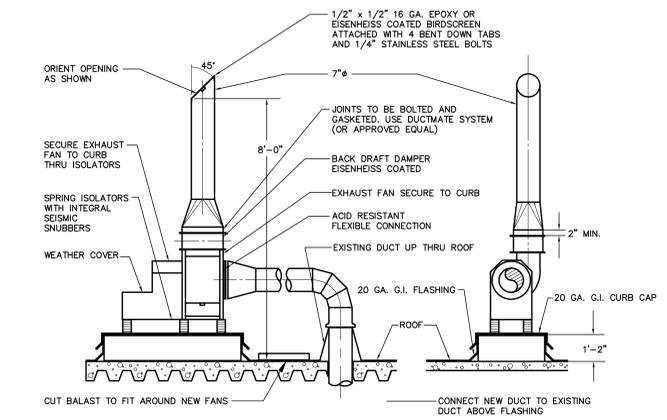
5 REHEAT COIL PIPING DETAIL
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2 CEILING DIFFUSER DETAIL
SCALE: NOT TO SCALE



4 VARIABLE VOLUME BOX DETAIL
SCALE: NTS

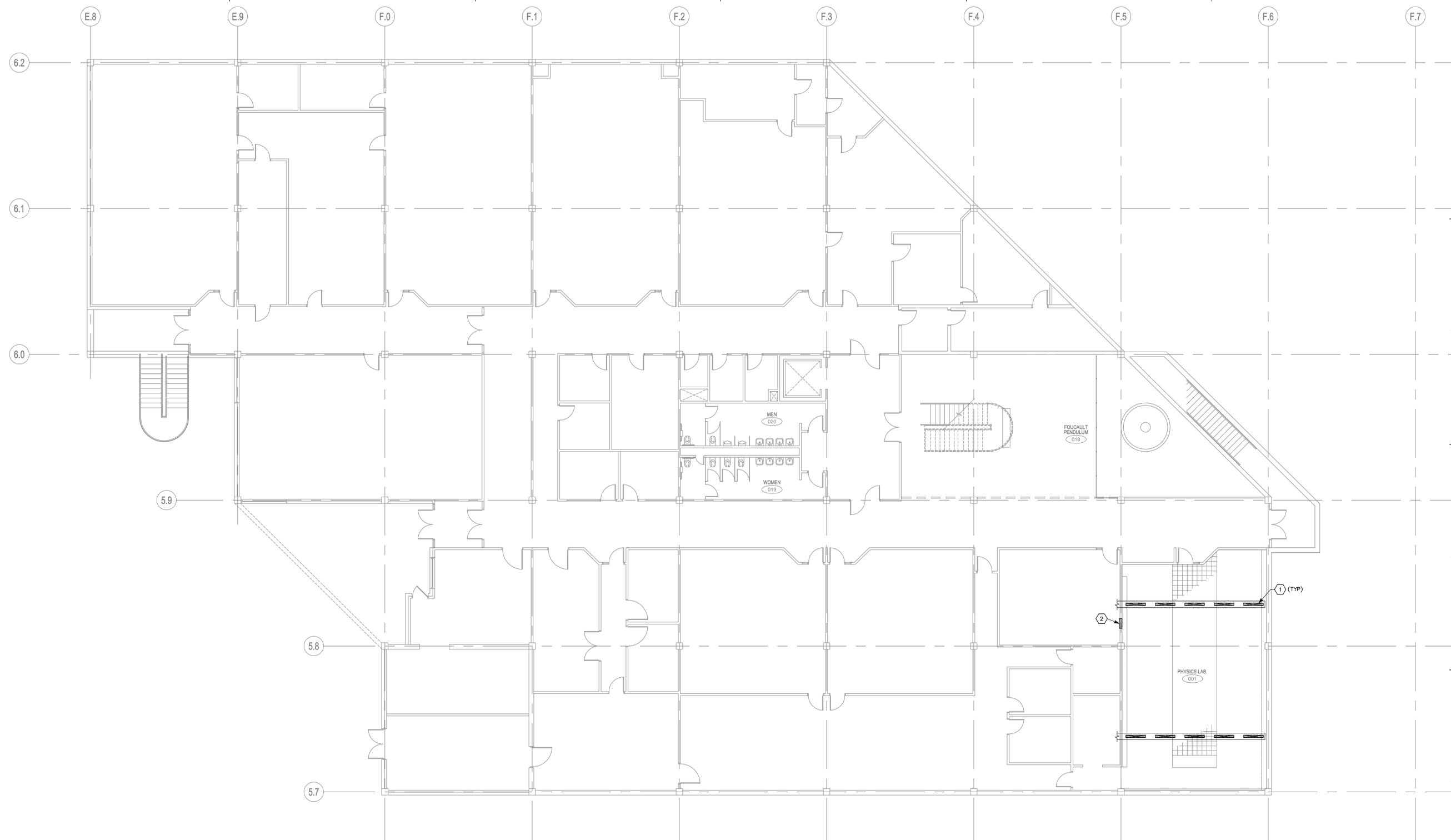


1 ROOF MOUNTED EXHAUST FAN DETAIL
NOT TO SCALE

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A6 LEVEL 0 MECHANICAL DEMOLITION PLAN
SCALE: 1/8"=1'-0"

SHEET KEYNOTES

1. REMOVE EXISTING DIFFUSERS FROM DUCTWORK. LEAVE DUCTWORK IN PLACE WITH OPENINGS.
2. REMOVE EXISTING RETURN AIR GRILLE.

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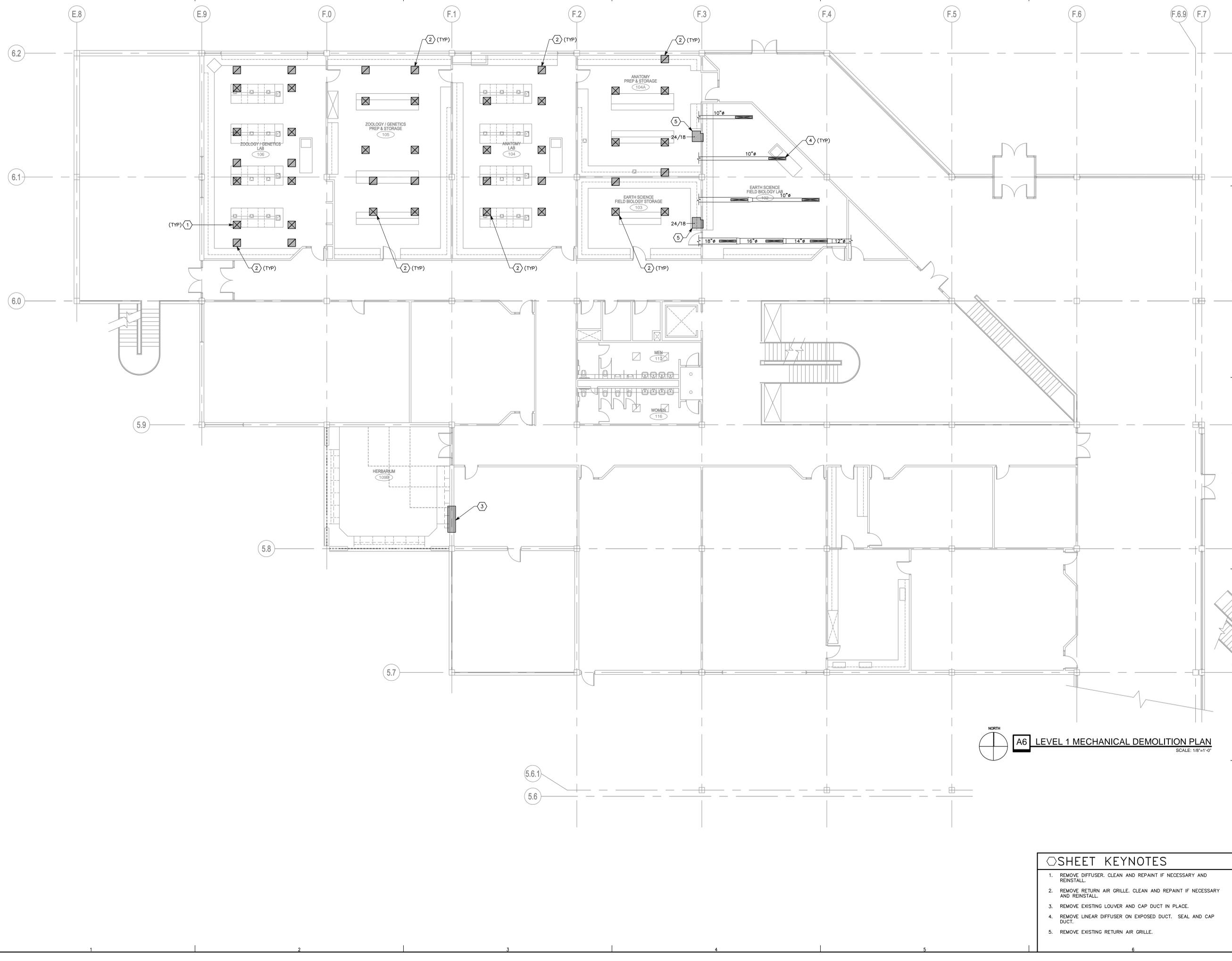
Mechanical Demolition Plan
Level 0

MD100

Axis Architects

352 SOUTH DENVER STREET (440 EAST) SALT LAKE CITY UTAH 84111 P. 305-3003 F. 305-0113

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A6 LEVEL 1 MECHANICAL DEMOLITION PLAN
SCALE: 1/8"=1'-0"

- SHEET KEYNOTES**
1. REMOVE DIFFUSER. CLEAN AND REPAINT IF NECESSARY AND REINSTALL.
 2. REMOVE RETURN AIR GRILLE. CLEAN AND REPAINT IF NECESSARY AND REINSTALL.
 3. REMOVE EXISTING LOUVER AND CAP DUCT IN PLACE.
 4. REMOVE LINEAR DIFFUSER ON EXPOSED DUCT. SEAL AND CAP DUCT.
 5. REMOVE EXISTING RETURN AIR GRILLE.

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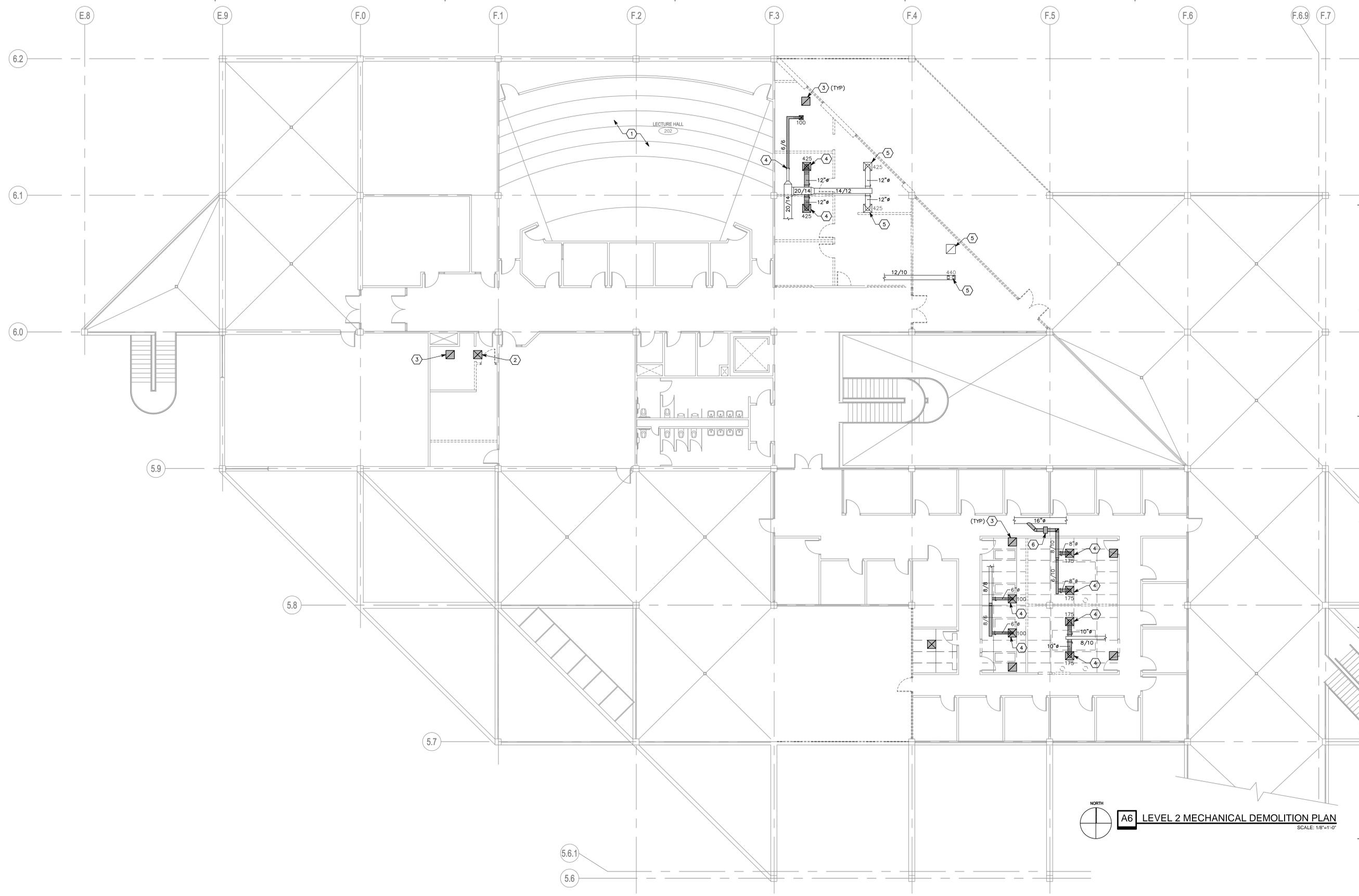
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Mechanical Demolition Plan
Level 1

MD101

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A6 LEVEL 2 MECHANICAL DEMOLITION PLAN
SCALE: 1/8"=1'-0"

SHEET KEYNOTES

1. EXISTING DUCT AND DIFFUSERS TO REMAIN IN LECTURE HALL.
2. REMOVE EXISTING DIFFUSER. CAP DUCT IN PLACE.
3. REMOVE EXISTING RETURN AIR GRILLE.
4. REMOVE EXISTING DIFFUSER AND DUCT TO POINT INDICATED. CAP AND SEAL DUCT.
5. REMOVE EXISTING DIFFUSER OR RETURN GRILLE. CLEAN AND REPAINT IF NECESSARY AND REINSTALL.
6. REMOVE EXISTING VAV BOX.

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Mechanical Demolition Plan
Level 2

MD102

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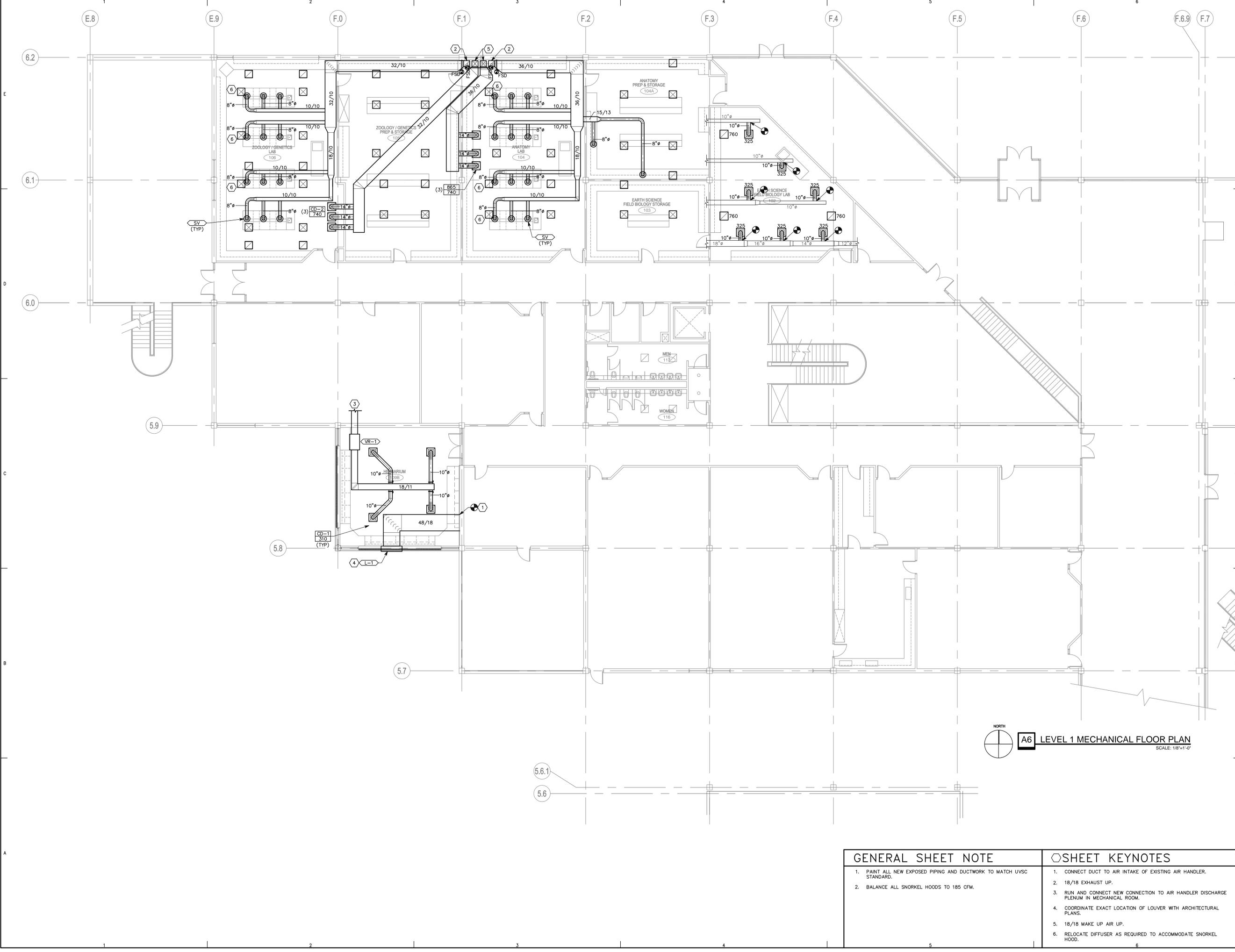


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Mechanical Floor Plan
Level 1

MH101



A6 LEVEL 1 MECHANICAL FLOOR PLAN
SCALE: 1/8"=1'-0"

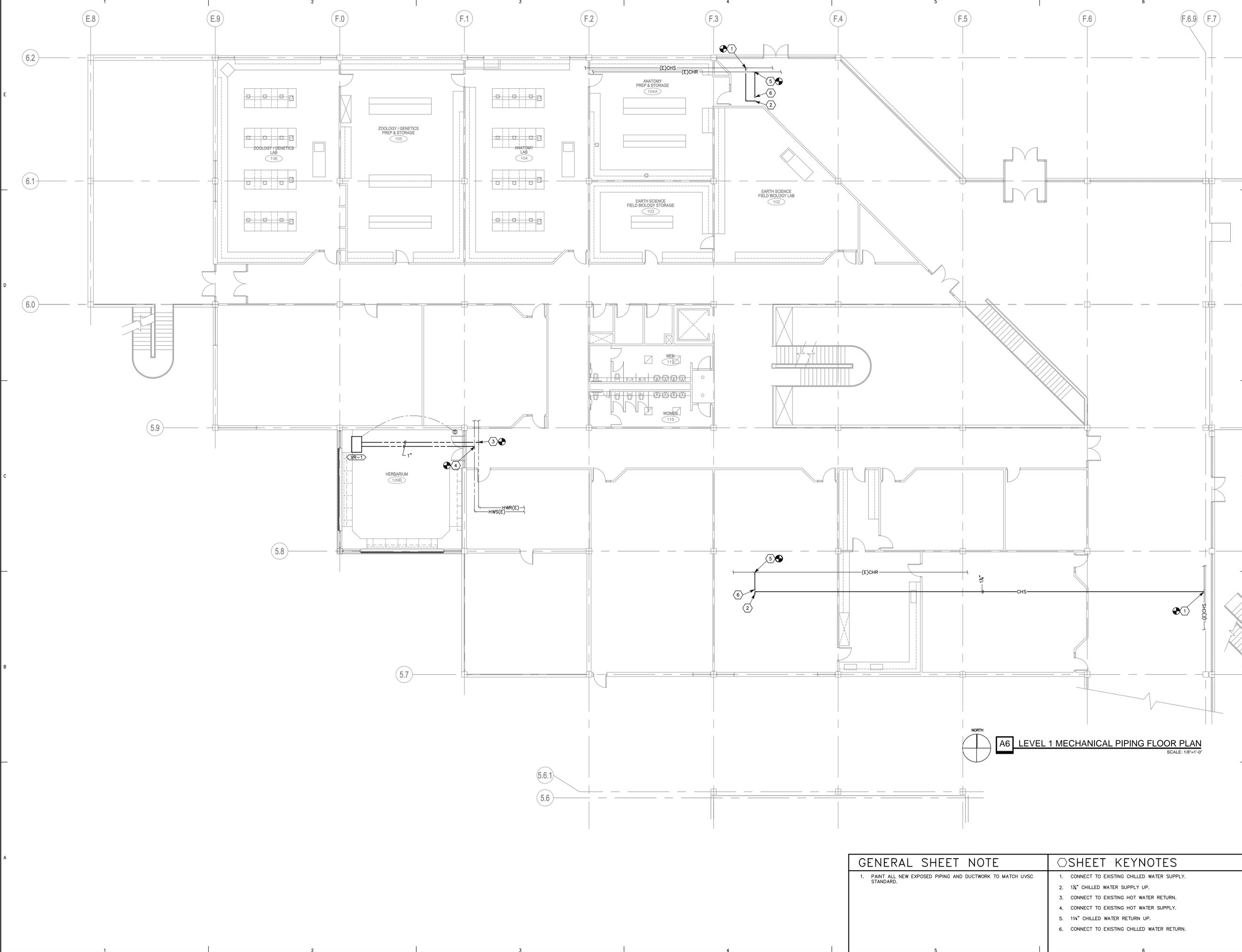
GENERAL SHEET NOTE

1. PAINT ALL NEW EXPOSED PIPING AND DUCTWORK TO MATCH UVSC STANDARD.
2. BALANCE ALL SNORKEL HOODS TO 185 CFM.

SHEET KEYNOTES

1. CONNECT DUCT TO AIR INTAKE OF EXISTING AIR HANDLER.
2. 18/18 EXHAUST UP.
3. RUN AND CONNECT NEW CONNECTION TO AIR HANDLER DISCHARGE PLENUM IN MECHANICAL PLANS.
4. COORDINATE EXACT LOCATION OF LOUVER WITH ARCHITECTURAL PLANS.
5. 18/18 MAKE UP AIR UP.
6. RELOCATE DIFFUSER AS REQUIRED TO ACCOMMODATE SNORKEL HOOD.

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A6 LEVEL 1 MECHANICAL PIPING FLOOR PLAN
SCALE: 1/8"=1'-0"

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Mechanical Piping Floor Plan
Level 1

MP101

GENERAL SHEET NOTE

1. PAINT ALL NEW EXPOSED PIPING AND DUCTWORK TO MATCH UVSC STANDARD.

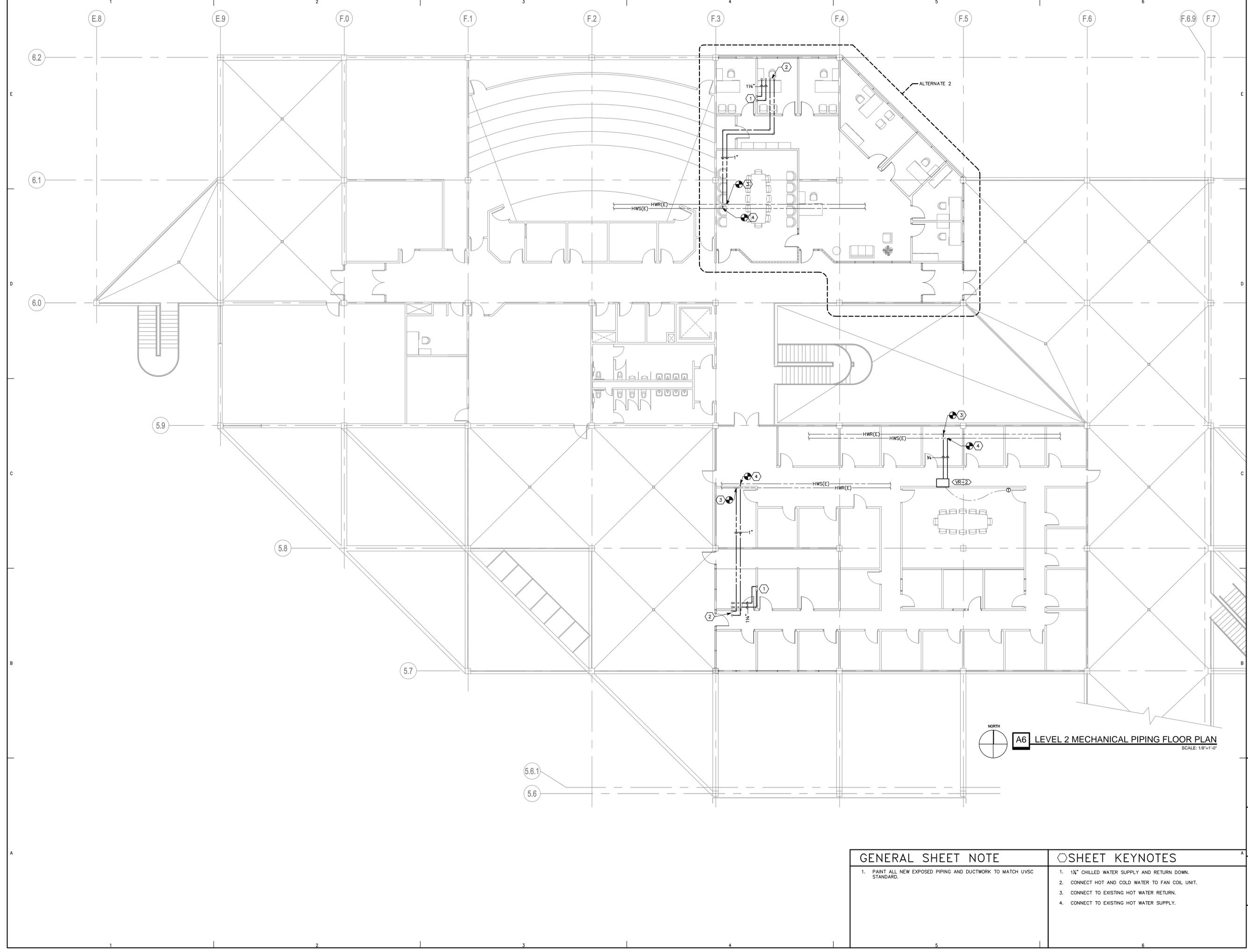
SHEET KEYNOTES

1. CONNECT TO EXISTING CHILLED WATER SUPPLY.
2. 1 1/2" CHILLED WATER SUPPLY UP.
3. CONNECT TO EXISTING HOT WATER RETURN.
4. CONNECT TO EXISTING HOT WATER SUPPLY.
5. 1 1/2" CHILLED WATER RETURN UP.
6. CONNECT TO EXISTING CHILLED WATER RETURN.

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UVSC Science Building Phase III

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A6 LEVEL 2 MECHANICAL PIPING FLOOR PLAN
SCALE: 1/8"=1'-0"

GENERAL SHEET NOTE

1. PAINT ALL NEW EXPOSED PIPING AND DUCTWORK TO MATCH UVSC STANDARD.

SHEET KEYNOTES

1. 1 1/2" CHILLED WATER SUPPLY AND RETURN DOWN.
2. CONNECT HOT AND COLD WATER TO FAN COIL UNIT.
3. CONNECT TO EXISTING HOT WATER RETURN.
4. CONNECT TO EXISTING HOT WATER SUPPLY.

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Mechanical Piping Floor Plan
Level 2

MP102

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SYMBOL LEGEND	
SYMBOL	DESCRIPTION
PLUMBING PIPING	
—C/W—	COMBINATION WASTE AND VENT
—	SOIL, WASTE — ABOVE GRADE
—	SOIL, WASTE — BELOW GRADE
—GW—	GREASE WASTE — ABOVE GRADE
—GW—	GREASE WASTE — BELOW GRADE
----	VENT
----	ACID VENT
—AW—	ACID WASTE — ABOVE GRADE
—AW—	ACID WASTE — BELOW GRADE
—	COLD WATER
—	HOT WATER
—	HOT WATER CIRCULATE
—180—	180°F HOT WATER
—180R—	180° HOT WATER RETURN
—160—	160° HOT WATER
—160R—	160° HOT WATER RETURN
—RW—	RAINWATER — ABOVE GRADE
—RW—	RAINWATER — BELOW GRADE
—ORW—	OVERFLOW RAINWATER ABOVE GRADE
—ORW—	OVERFLOW RAINWATER BELOW GRADE
—SD—	STORM DRAIN
VTR	VENT THRU ROOF
—/—	NON POTABLE WATER
(E)	EXISTING PIPE
////(E)////	EXISTING PIPE TO BE REMOVED
—IW—	IRRIGATION WATER
—SS—	SANITARY SEWER
—W—	WATER
—PWS—	PURE WATER SUPPLY
—PWR—	PURE WATER RETURN
—G—	GAS
—LPG—	PROPANE
—VAC—	VACUUM
—A—	COMPRESSED AIR
—MA—	MEDICAL AIR
—O—	OXYGEN
—NO—	NITROUS OXIDE
—N—	NITROGEN
—CO2—	CARBON DIOXIDE
—EVAC—	EVACUATION

SYMBOL LEGEND	
SYMBOL	DESCRIPTION
VALVES, METERS, AND GAUGES	
—	SHUT OFF VALVE
—	GATE VALVE
—	CHECK VALVE
—	AUTO 2-WAY VALVE
—	AUTO 3-WAY VALVE
—	GLOBE VALVE
—	BALL VALVE
—	RELIEF VALVE
—	CHAIN OPERATED GATE VALVE
—	PRESSURE REDUCING VALVE
—	BUTTERFLY VALVE
—	SOLENOID VALVE
—	ANGLE VALVE
—	VENTURI
—	BALANCING OR PLUG COCK
—	FLOW SETTER
—	EXPANSION VALVE (REFRIG.)
—	GAS COCK
—MAV	MANUAL AIR VENT
—	STRAINER
—	GAUGE COCK
—	FLEXIBLE CONNECTION
—	PRESSURE GAUGE
—	THERMOMETER
—	VICTUALIC COUPLING
—	REDUCER CONCENTRIC
—	REDUCER ECCENTRIC
—	REFRIGERANT SITE GLASS
—	REFRIGERANT STAINER
—	REFRIGERANT FILTER DRIER
—	90° ELBOW UP
—	90° ELBOW DOWN
—	90° TEE UP
—	90° TEE DOWN
—	UNION
—	CAPPED PIPE
—	ANCHOR
—	FLOAT AND THERMOSTATIC TRAP
PLUMBING SYMBOLS	
—	C.B. CATCH BASIN
—	M.H. MANHOLE
—	W.H. WALL HYDRANT
—	H.B. HOSE BIBB
—	CLEANOUT TO GRADE
—	FLOOR CLEANOUT
—	WALL CLEANOUT
—	1/2 GRATE
—	3/4 GRATE
—	FULL GRATE

GENERAL PLUMBING NOTES (CONT)

- THE PLUMBING CONTRACTOR SHALL GUARANTEE THE PLUMBING SYSTEM FOR A PERIOD OF ONE YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION.
- THE PLUMBING CONTRACTOR SHALL, DURING CONSTRUCTION, MAINTAIN A SET OF AS-BUILT REDLINED RECORD DRAWINGS AT THE PROJECT SITE. ALL CHANGES IN LAYOUT, ROUTING, EQUIPMENT, COMPONENTS, AND ACCESSORIES SHALL BE RECORDED. THESE REDLINES SHALL BE GIVEN TO THE ARCHITECT/ENGINEER AFTER THE FINAL INSPECTION.

PLUMBING SHEET INDEX

SHEET NO	SHEET TITLE
PE001	PLUMBING SYMBOLS, NOTES AND SHEET INDEX
PE501	PLUMBING DETAILS AND SCHEDULES
PL100	LEVEL 0 PLUMBING PLAN
PL101	LEVEL 1 PLUMBING PLAN
PL102	LEVEL 2 PLUMBING PLAN

DEFINITIONS

NOTE: ALL DEFINITIONS MAY NOT BE USED.

INDICATED: THE TERM "INDICATED" REFERS TO GRAPHIC REPRESENTATIONS, NOTES, OR SCHEDULES ON THE DRAWINGS, OTHER PARAGRAPHS OR SCHEDULES IN THE SPECIFICATIONS, AND SIMILAR REQUIREMENTS IN THE CONTRACT DOCUMENTS. WHERE TERMS SUCH AS "SHOWN", "NOTED", "SCHEDULED", AND "SPECIFIED" ARE USED, IT IS TO HELP THE READER LOCATE THE REFERENCE, NO LIMITATION ON LOCATION IS INTENDED.

DIRECTED: TERMS SUCH AS "DIRECTED", "REQUESTED", "AUTHORIZED", "SELECTED", "APPROVED", "REQUIRED", AND "PERMITTED" MEAN "DIRECTED BY THE ENGINEER", "REQUESTED BY THE ENGINEER", AND SIMILAR PHRASES.

APPROVE: THE TERM "APPROVED" WHERE USED IN CONJUNCTION WITH THE ENGINEER'S ACTION ON THE CONTRACTOR'S SUBMITTALS, APPLICATIONS, AND REQUESTS, IS LIMITED TO THE ENGINEER'S DUTIES AND RESPONSIBILITIES AS STATED IN GENERAL AND SUPPLEMENTARY CONDITIONS.

FURNISH: THE TERM "FURNISH" IS USED TO MEAN "SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS." COMPLETE AND READY FOR THE INTENDED USE.

INSTALL: THE TERM "INSTALL" IS USED TO DESCRIBE OPERATIONS AT PROJECT SITE INCLUDING THE ACTUAL "UNLOADING, UNPACKING, ASSEMBLY, ERECTION, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS TO MAKE THE ITEM FULLY OPERATIONAL."

PROVIDE: THE TERM "PROVIDE" MEANS "TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE."

INSTALLER: AN "INSTALLER" IS THE CONTRACTOR OR AN ENTITY ENGAGED BY THE CONTRACTOR, EITHER AS AN EMPLOYEE, SUBCONTRACTOR, OR SUB-SUBCONTRACTOR, FOR PERFORMANCE OF A PARTICULAR CONSTRUCTION ACTIVITY, INCLUDING INSTALLATION, ERECTION, APPLICATION, AND SIMILAR OPERATIONS. INSTALLERS ARE REQUIRED TO BE EXPERIENCED IN THE OPERATIONS THEY ARE ENGAGED TO PERFORM.

GENERAL PLUMBING NOTES

- PROVIDE ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY TO CONSTRUCT A COMPLETE OPERATIONAL PLUMBING SYSTEM FOR THE ENTIRE PROJECT AS SHOWN ON THESE DRAWINGS, INCLUDING ALL NECESSARY FEES AND PERMITS.
- THE ENTIRE INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF THE MOST RECENTLY ADOPTED BUILDING CODE, MECHANICAL CODE, PLUMBING CODE, ELECTRICAL CODE, AND ALL OTHER APPLICABLE CITY, COUNTY, SCHOOL DISTRICT, STATE, AND FEDERAL CODES AND REGULATIONS IN EFFECT AT THE DATE OF THE BID. CONFORM TO ANY CODES, RULES, REGULATIONS AND REQUIREMENTS THAT THE PROJECT OWNER HAS.
- PRIOR TO FABRICATION AND INSTALLATION, THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL PLUMBING WORK WITH ALL OTHER TRADES, INCLUDING BUT NOT LIMITED TO: THE MECHANICAL CONTRACTOR, ELECTRICAL CONTRACTOR, GENERAL CONTRACTOR, AND ANY CONTRACTOR HIRED DIRECTLY BY THE OWNER. WHERE CONFLICTS MAY OCCUR, THEY SHALL BE RESOLVED PRIOR TO INSTALLATION.
- THE DRAWINGS SHOW THE GENERAL DESIGN, ARRANGEMENTS AND THE EXTENT OF THE SYSTEM. IT SHALL BE THE WORK OF THE CONTRACTOR TO MAKE SUCH SLIGHT ALTERATIONS AS MAY BE NECESSARY TO MAKE THE SYSTEM COMPLETE AND OPERATIONAL IN ACCORDANCE WITH THE DESIGN INTENT. MAJOR DEVIATIONS SUCH AS CHANGES IN COMPONENT SIZES, WEIGHTS, QUANTITIES, OR MATERIAL REQUIRE PRIOR APPROVAL BY THE CONSULTING ENGINEER.
- ALL PLUMBING INFORMATION IS NOT SHOWN ON THE PLUMBING DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING INFORMATION ON ALL OTHER CONSTRUCTION DOCUMENTS INCLUDING ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS.
- THE WORKING DRAWINGS ARE DIAGRAMMATIC. BECAUSE OF THE SMALL SCALE OF THE DRAWINGS, THEY DO NOT SHOW EVERY OFFSET, BEND OR ELBOW NECESSARY FOR THE COMPLETE INSTALLATION IN THE SPACE PROVIDED. ALL LOCATIONS FOR PLUMBING EQUIPMENT AND PIPING SHALL BE CHECKED AND COORDINATED WITH THE ARCHITECTURAL, MECHANICAL, STRUCTURAL AND ELECTRICAL DRAWINGS.
- EXACT ROUTING OF WASTE, GAS, AND WATER SERVICE IS DEPENDENT ON LOCAL SITE CONDITIONS AND MODIFICATIONS IN EQUIPMENT CONNECTIONS. EXACT LOCATION OF EQUIPMENT MAY VARY DEPENDING ON LOCAL CODE, HEALTH DEPARTMENT AND CITY REQUIREMENTS.
- DETAILS: THE CONTRACTOR IS RESPONSIBLE TO REVIEW AND USE WHERE APPROPRIATE ALL OF THE PLUMBING DETAILS SHOWN ON THE DRAWINGS. DETAILS MAY OR MAY NOT BE CALLED OUT ON THE DRAWINGS WITH SYMBOLS OR KEYED NOTES. ANY CHANGES RESULTING FROM FAILURE TO INSTALL THE PLUMBING SYSTEM WITHOUT USING THE INCLUDED DETAILS IS THE RESPONSIBILITY OF THE CONTRACTOR.
- PIPING SCHEMATICS: THE CONTRACTOR IS RESPONSIBLE TO REVIEW THE PIPING SCHEMATICS INCLUDED WITH THE DRAWINGS FOR PIPING CONNECTIONS TO ALL PLUMBING EQUIPMENT. THE PIPING SCHEMATICS SHOW DETAILED CONNECTIONS INCLUDING NECESSARY VALVES, FITTINGS, PRESSURE AND TEMPERATURE GAUGES, ETC., THAT ARE NOT SHOWN ON THE DRAWINGS. ANY CHANGES RESULTING FROM FAILURE TO INSTALL THE PLUMBING SYSTEM WITHOUT USING THE INCLUDED PIPING SCHEMATICS IS THE RESPONSIBILITY OF THE CONTRACTOR.
- THE DRAWINGS AND SPECIFICATIONS HAVE BEEN PREPARED TO SUPPLEMENT EACH OTHER AND THEY SHALL BE INTERPRETED AS AN INTEGRAL UNIT WITH THE ITEMS SHOWN ON ONE AND NOT THE OTHER BEING FURNISHED AND INSTALLED AS THOUGH SHOWN AND CALLED OUT IN BOTH.
- THE STRUCTURE SHOWN ON ALL DETAILS MAY OR MAY NOT PERTAIN TO A PORTION OR ANY PORTION OF THE BUILDING. COORDINATE MOUNTING REQUIREMENTS WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS.
- ANY PART OF THIS INSTALLATION THAT FAILS, IS UNFIT, OR BECOMES DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- COORDINATE THE RETURN OF ALL PLUMBING ITEMS REMOVED DURING DEMOLITION, WITH THE OWNER'S REPRESENTATIVE.
- ALL EQUIPMENT SHALL PROVIDE THE SCHEDULED PERFORMANCE AT THE SITE ALTITUDE.
- ALL EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S RECOMMENDATIONS. PROVIDE ALL FITTINGS, TRANSITIONS, VALVES, AND OTHER DEVICES AND ACCESSORIES REQUIRED FOR A COMPLETE, WORKABLE INSTALLATION.
- THE DIVISION 15 CONTRACTOR SHALL PROVIDE ALL REQUIRED MOTORS. ALL MOTOR STARTING EQUIPMENT, WHEN NOT A PART OF THE PLUMBING EQUIPMENT, WILL BE PROVIDED BY THE ELECTRICAL CONTRACTOR.
- EXISTING INTERIOR PIPING AND EQUIPMENT HAS BEEN LOCATED IN AN APPROXIMATE MANNER ONLY. THE CONTRACTOR SHALL VERIFY LOCATIONS AND POINTS OF CONNECTION AND PIPE ROUTING THROUGH EXISTING CONDITIONS PRIOR TO COMMENCING WORK.
- THE CONTRACTOR SHALL PERFORM THE WORK IN A MANNER THAT WILL CAUSE A MINIMUM DISRUPTION TO BUILDING TENANT USE AND SHALL COORDINATE THE WORK WITH THE BUILDING OWNER'S REPRESENTATIVE.
- THE PLUMBING CONTRACTOR IS RESPONSIBLE FOR PLUMBING EQUIPMENT CHECK-IN, SAFEKEEPING, AND DAMAGE.
- PROVIDE WALL CLEANOUTS IN ALL VENTS FOR COMBINATION WASTE AND VENT SYSTEMS AS REQUIRED BY LOCAL AND NATIONAL CODES.
- ALL VENT FITTINGS FOR WASTE SYSTEMS BELOW OVERFLOWS OF FIXTURES SHALL BE DRAINAGE TYPE.
- CONTRACTOR TO COMPLY WITH THE LATEST ADOPTED PLUMBING CODES WHEN SIZING TRAP ARMS ON COMBINATION WASTE AND VENT SYSTEMS. THE DRAWINGS INDICATE THE WASTE LINE SIZE AND THE SIZE OF THE TRAP REQUIRED.
- PROVIDE CLEANOUTS IN ACCORDANCE WITH THE REQUIREMENTS OF APPLICABLE CODES. FLOOR CLEANOUTS SHALL BE LOCATED OUT OF TRAFFIC AREAS.
- LOCATE ALL PLUMBING VENTS AT LEAST 3 FEET ABOVE OR 10 FEET AWAY FROM ALL OUTSIDE AIR INTAKES INTO THE BUILDING. FOR HEALTHCARE APPLICATION, VENTS SHALL BE 25 FT AWAY FROM AIR INTAKES.
- SEE "PLUMBING FIXTURE SCHEDULE" FOR FIXTURE MAKE AND TYPE, AND SIZE OF INDIVIDUAL WASTE, VENT, AND DOMESTIC WATER PIPING TO FIXTURES.
- ALL PLUMBING EQUIPMENT SHALL BE LISTED AND LABELED BY AN APPROVED TESTING AGENCY.
- EQUIPMENT AND INSTALLATION SHALL MEET NATIONAL SANITATION FOUNDATION (NSF) STANDARDS, OR EQUIVALENT.
- PROVIDE PROPER PROVISIONS FOR EXPANSION OR MOVEMENT OF ALL PIPING.
- ALL PIPE SHALL BE SECURED BY DOUBLE NUTTING AT THE HANGER ROD ATTACHMENT TO THE STRUCTURE, AND AT THE PIPE HANGER.
- PROVIDE WATER HAMMER ARRESTORS (SHOCK ABSORBERS) AT ALL PIPE LOCATIONS WHERE VALVE CLOSURES (SUCH AS FLUSH VALVES) MAY CAUSE WATER HAMMER OR RESULT IN EXCESSIVE PIPE VIBRATION OR MOVEMENT.
- PROPERLY LUBRICATE ALL PIECES OF EQUIPMENT BEFORE TURNING THE SYSTEM OVER TO THE OWNER.
- PREPARE 6 COPIES OF SUBMITTALS IN AN INDEXED, LABELED FOLDER CONTAINING FULL PERFORMANCE, MATERIAL AND INSTALLATION INFORMATION ABOUT ALL EQUIPMENT, PIPING, COMPONENTS AND ACCESSORIES TO BE USED. SUBMITTALS WILL BE CHECKED AT MOST TWICE. TIME SPENT ON SUBSEQUENT SUBMITTALS WILL BE BILLED TO THE CONTRACTOR BY THE ENGINEER AT ITS CURRENT HOURLY RATES.
- TWO OPERATING AND MAINTENANCE MANUALS SHALL BE PROVIDED IN HARD BACK LOOSE LEAF BINDERS. MANUALS SHALL CONTAIN PRODUCT CUT SHEETS AND OPERATING AND MAINTENANCE INSTRUCTIONS ON ALL EQUIPMENT, ACCESSORIES, FIXTURES, VALVES, ETC., PROVIDED FOR THE PROJECT.
- UPON COMPLETION OF THE WORK, REMOVE ALL SURPLUS MATERIALS AND RUBBISH. MAKE ALL REQUIRED PATCHING AND REPAIRS OF OTHER TRADES' WORK DAMAGED BY THE PLUMBING CONTRACTOR, AND LEAVE THE PREMISES IN A CLEAN, ORDERLY CONDITION.
- THE PLUMBING CONTRACTOR SHALL OPERATE THE SYSTEM AND DEMONSTRATE ALL ASPECTS TO THE ENGINEER AND/OR OWNER, TO PROVE IT'S OPERATION.

**UVSC Science Building
Phase III**
Utah Valley State College
Construction Documents

Revision #	Date

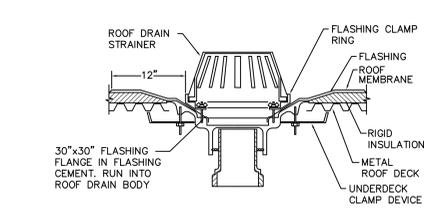
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Owner #	
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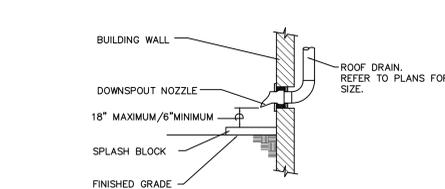
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P. 355-3003 F. 355-0113

PLUMBING FIXTURE SCHEDULE							
SYMBOL	FIXTURE	CW	HW	WASTE	VENT	NATURAL GAS	COMMENTS
LS	LAB SINK	1/2"	1/2"	1 1/2"	1 1/4"	-	
CS	CUP SINK	1/2"	1/2"	1 1/2"	1 1/4"	-	
GC	GAS COCK	-	-	-	-	1/2"	
CA	COMPRESSED AIR OUTLET	-	-	-	-	-	
V	VACUUM INLET	-	-	-	-	-	



2 ROOF DRAIN
SCALE: NTS



1 DOWNSPOUT NOZZLE
SCALE: NTS

**UVSC Science Building
Phase III**
Utah Valley State College
Construction Documents

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Plumbing Details

PE501

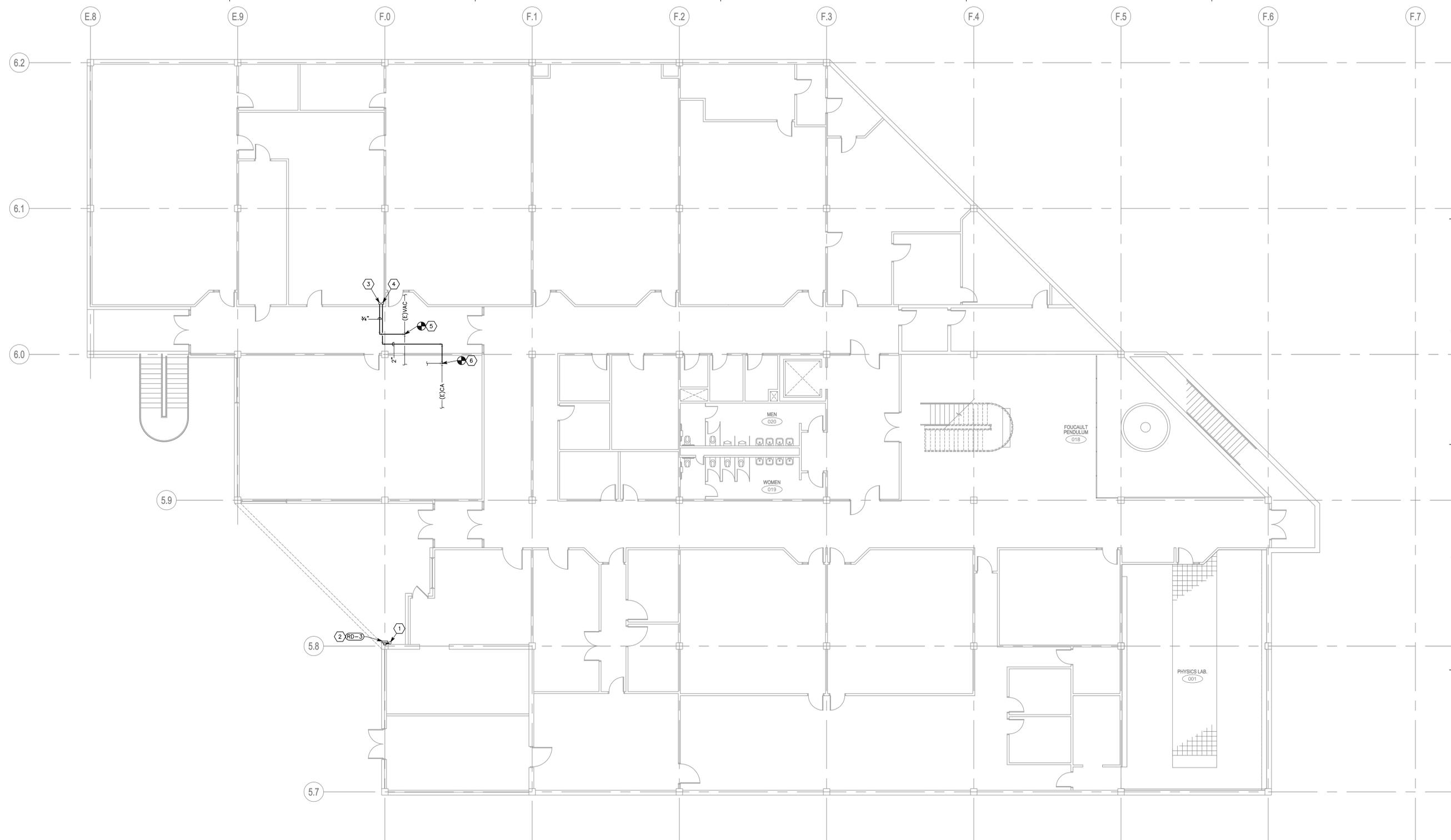
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A6 LEVEL 0 PLUMBING FLOOR PLAN
 SCALE: 1/8"=1'-0"

GENERAL SHEET NOTE

1. PAINT ALL NEW EXPOSED PIPING AND DUCTWORK TO MATCH UVSC STANDARD.

SHEET KEYNOTES

1. 3" SECONDARY ROOF DRAINAGE UP.
2. INSTALL DOWNSPOUT 18" ABOVE GRADE.
3. 2" VACUUM UP.
4. 3/4" COMPRESSED AIR UP.
5. CONNECT TO EXISTING VACUUM LINE.
6. CONNECT TO EXISTING COMPRESSED LINE.

**UVSC Science Building
 Phase III**
 Utah Valley State College
 Construction Documents

Revision #	Date

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 Date 03-22-07
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Plumbing Floor Plan
 Level 0

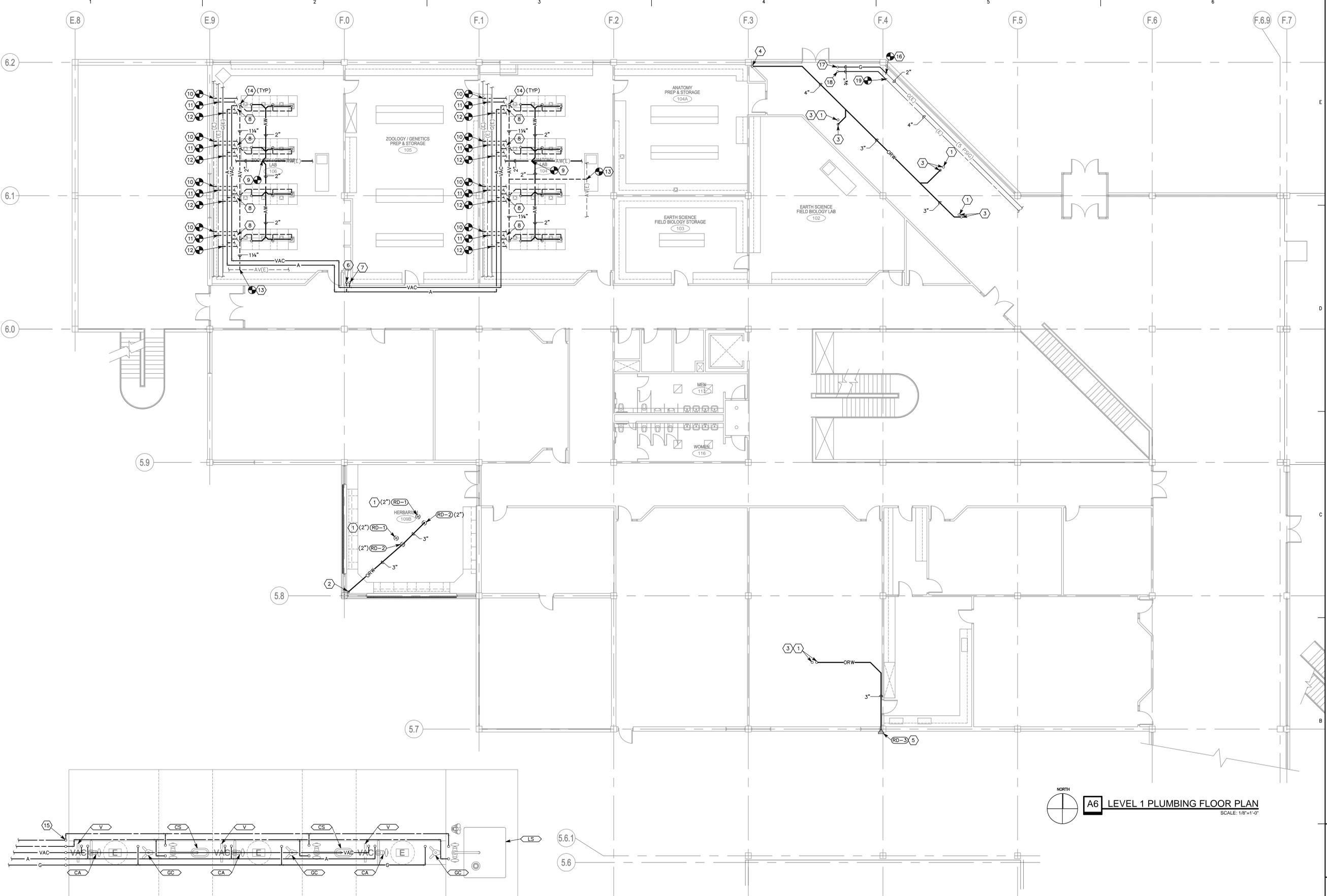
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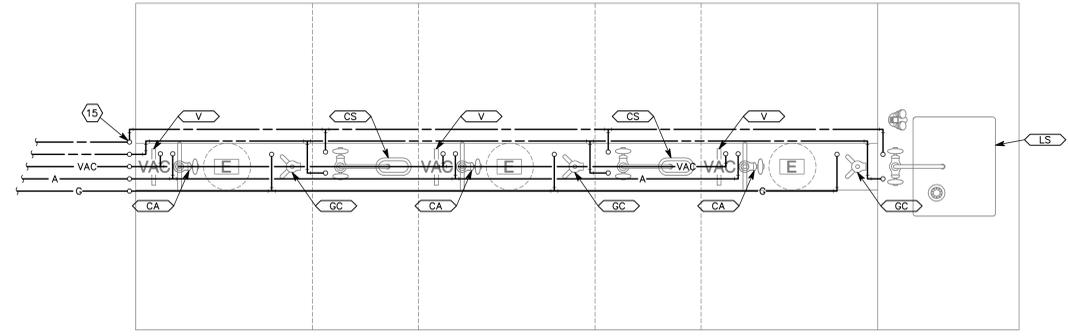
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Plumbing Floor Plan
Level 1



A6 LEVEL 1 PLUMBING FLOOR PLAN
SCALE: 1/8"=1'-0"



A1 ENLARGED PLUMBING PLAN
SCALE: 1"=1'-0"

GENERAL SHEET NOTE
1. PAINT ALL NEW EXPOSED PIPING AND DUCTWORK TO MATCH UVSC STANDARD.

SHEET KEYNOTES

- DROP HOT WATER, COLD WATER, VACUUM, AIR, AND GAS DOWN TO LAB BENCH. EXTEND THROUGH PIPING CHASE AND CONNECT TO OUTLETS AND FIXTURES.
- CONNECT TO EXISTING GAS.
- 94" GAS UP.
- 94" COLD WATER UP.
- CONNECT TO EXISTING COLD WATER.

SHEET KEYNOTES

- SEE LARGE SCALE PLUMBING PLAN FOR CONTINUATION.
- CONNECT TO EXISTING ACID WASTE.
- CONNECT TO EXISTING COLD WATER.
- CONNECT TO EXISTING HOT WATER.
- CONNECT TO EXISTING GAS.
- CONNECT TO EXISTING ACID VENT.
- DROP ACID VENT DOWN TO LAB BENCH. EXTEND THROUGH PIPING CHASE AND CONNECT TO FIXTURES.

SHEET KEYNOTES

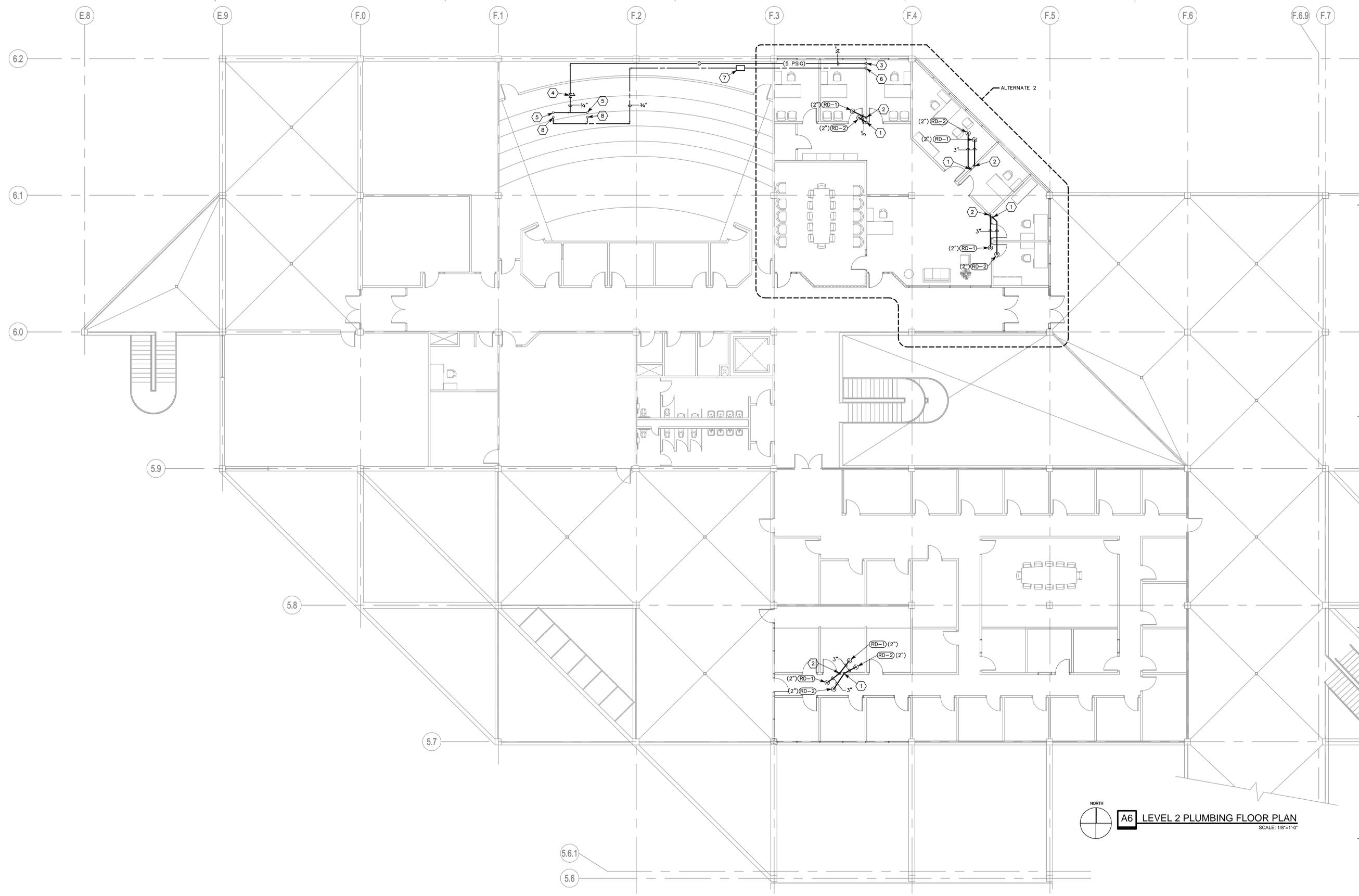
- CONNECT TO EXISTING ROOF DRAIN LINE.
- 2" ROOF DRAINAGE DOWN.
- 2" ROOF DRAINAGE UP.
- CONNECT TO EXISTING OVERFLOW DRAIN LINE.
- INSTALL DOWNSPOUT 18" ABOVE GRADE.
- 94" COMPRESSED AIR DOWN.
- 2" VACUUM DOWN.

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NORTH
A6 LEVEL 2 PLUMBING FLOOR PLAN
 SCALE: 1/8"=1'-0"

SHEET KEYNOTES	
8.	CONNECT TO WATER INLET CONNECTION OF MAKE UP AIR UNIT. SEE MECHANICAL PLANS.
GENERAL SHEET NOTE	
1.	PAIN ALL NEW EXPOSED PIPING AND DUCTWORK TO MATCH UVSC STANDARD.

SHEET KEYNOTES	
1.	2" OVERFLOW ROOF DRAINAGE DOWN.
2.	2" PRIMARY ROOF DRAINAGE DOWN.
3.	3/4" GAS DOWN.
4.	FURNISH 5 PSIG TO 7 INWG GAS PRESSURE REGULATOR. VENT TO OUTSIDE.
5.	CONNECT TO MAKE UP AIR UNIT. SEE MECHANICAL PLANS.
6.	3/4" COLD WATER DOWN.
7.	REDUCED PRESSURE BACKFLOW PREVENTER.

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Plumbing Floor Plan
 Level 2

PL102

**UVSC Science Building
 Phase III**
 Utah Valley State College
 Construction Documents

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352 SOUTH DENVER STREET(440 EAST) SALT LAKE CITY UTAH 84111 P. 305-3003 F. 305-0113

FIXTURE SCHEDULE

TYPE	DESCRIPTION	CATALOG NUMBER	VOLTS	LAMPS
A	2 X 4 LAY-IN PARABOLOID, 3-LAMPS, 3" SEMI SPECULAR LOUVERS, 18 CELL, 2 BALLAST COVERS	LITHONIA 2PM3NG 332 18 LD 277 EB GLR (2 BALLAST COVERS)	277	(3) F32 TB 835
B	2 X 4 LAY-IN, A12.125 ACRYLIC LENS; 2-LAMPS; COM LATCHES	LITHONIA 2SP8G 232 A12125 277 EB GLR	277	(2) F32 TB 835
C	RECESSED FLUORESCENT DOWNLIGHT; CLEAR ALZAK REFLECTOR; DIMMING BALLAST	LITHONIA AF 142 6AR LD 277 DM8B GLR	277	(1) 42WTT 835
D	8' LINEAR PENDANT; AIRCRAFT CABLE SUSPENSION	LITHONIA IB24 B 1TB/1TB 277 NS PEL CXX BW FU SC EB 8	277	(2) F32 TB 835 PER 4'
E	4' DIRECT/INDIRECT PENDANT; AIRCRAFT CABLE SUSPENSION DUAL LEVEL SWITCHING; DIMMING BALLAST ON UPLIGHT	LITHONIA IB24 B 1TB/1TB 277 NS PEL CXX BW FU SC EB/EDDM 4	277	(2) F32 TB 835
G	4' UNDERCABINET LIGHT	LITHONIA 2UC 32 277 GLR EB	277	(1) F32 TB 835
H	4' WALL LIGHT	LITHONIA WC 232 A12 MWLT EB	277	(1) F32 TB 835
J	AIRCRAFT CABLE PENDANT MOUNTED LINEAR FLUORESCENT 1/2 X 1/2 ACRYLIC EGGRATE LOUVER 4' LENGTH; PENDANT LENGTH PER ARCHITECT BLACK FINISH TO MATCH EXISTING HALLWAY LIGHTING	LITHONIA S0661-D-2-277-ET8-277-SPL-SXX-BLACK-FU-20	277	(2) F32 TB 835
K	EMERGENCY WALL LIGHT COLOR BY ARCHITECT FROM MANUFACTURER'S STANDARD COLORS	LITHONIA AFN	277	INCLUDED
X1	SINGLE FACE LED DIE CAST EXIT LIGHT GREEN FACE, WHITE LETTERS	LITHONIA LES W 1G 277	277	INCLUDED
X2	DOUBLE FACE LED DIE CAST EXIT LIGHT GREEN FACE, WHITE LETTERS	LITHONIA LES W 2G 277	277	INCLUDED

EQUIPMENT SCHEDULE

UNIT #	FUNCTION	LOAD	VOLT	PHASE	FULL LOAD AMPS	CONDUIT SIZE	WIRES			OCPD	REF. NOTES	REMARKS
							NO. SETS	NO.	SIZE			
AH-1	AIR HANDLER	5.6 FLA	208	1	5.60	3/4"	1	2	12	12	CB 15	2A
AH-3	AIR HANDLER	5.8 FLA	208	1	5.80	3/4"	1	2	12	12	CB 15	2A
AH-2	AIR HANDLER	5.6 FLA	208	1	5.60	3/4"	1	2	12	12	CB 15	2A
EF-1	EXHAUST FAN	3 HP	208	3	10.60	3/4"	1	3	12	12	CB 20 7A 1B	P
EF-2	EXHAUST FAN	3 HP	208	3	10.60	3/4"	1	3	12	12	CB 20 7A 1B	
EF-3	EXHAUST FAN	17.5 VA	120	1	1.44	3/4"	1	2	12	12	CB 15	1B
MAU-1	MAKE UP AIR UNIT	2 HP	208	3	7.50	3/4"	1	3	12	12	CB 20 7A	
MAU-2	MAKE UP AIR UNIT	2 HP	208	3	7.50	3/4"	1	3	12	12	CB 20 7A	

NOTES:
1. NON-FUSED DISCONNECT SWITCH
2. FUSED DISCONNECT SWITCH
3. BREAKER IN ENCLOSURE
4. MANUAL STARTER W/THERMAL OVERLOAD
5. MAGNETIC STARTER
6. MAGNETIC STARTER/NON-FUSED DISCONNECT COMBINATION
7. MAGNETIC STARTER/FUSED DISCONNECT COMBINATION
8. MAGNETIC STARTER/BREAKER COMBINATION
9. VARIABLE FREQUENCY DRIVE
10. REDUCED VOLTAGE STARTER
11. DIRECT CONNECTION
12. RECEPTACLE/SPECIAL PURPOSE OUTLET/ETC.
13. TWO-SPEED STARTER, COORDINATE W/MOTOR TYPE

A. FURNISHED, INSTALLED, AND CONNECTED UNDER DIVISION 16
B. FURNISHED AND INSTALLED UNDER ANOTHER DIVISION REQUIRING CONNECTION UNDER DIVISION 16.
C. FURNISHED UNDER ANOTHER DIVISION BUT INSTALLED AND CONNECTED UNDER DIVISION 16.
D. FURNISHED, INSTALLED AND CONNECTED UNDER ANOTHER DIVISION.

CB = CIRCUIT BREAKER - THERMAL MAGNETIC
CKW = CHILLER KILOWATTS

NOTE 1: PER 250.122(A), EQUIPMENT GROUND IS NOT REQUIRED TO BE LARGER THAN PHASE CONDUCTOR.

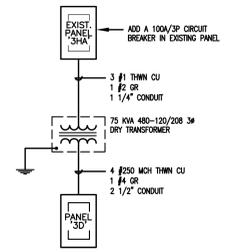
PANELBOARD SCHEDULE

PANEL 30 TYPE NDDO 120/208 VOLTS 3 PH 4 W

MOUNTING FLUSH DIMENSIONS 20 W 6 D (in) LOCATION AMP 225

ITEM	AMPS	POLE	WIRE SIZE	DR. NO.	LEFT PHASE LOAD			RIGHT PHASE LOAD			DR. NO.	AMPS	POLE	WIRE SIZE	ITEM		
					A	B	C	A	B	C							
CONF CO'S	20	1	12	1	720			1272			4						
OFFICE 201H, 201G	20	1	12	3			1260			1272							
OFFICE 201F, 201E	20	1	12	5			1080			1272							
OFFICE 201D, 201C	20	1	12	7			1080			1272							
OFFICE 201B, REC. 201	20	1	12	9			1080			1272							
RECEPTION 201	20	1	12	11			900			1272							
ROOFTOP UNIT CO'S	20	1	12	13			360			696			14	20	2	12	AH-2
OFFICE 212B, 212C	20	1	12	15			1080			696			18				
OFFICE 212A, 212D	20	1	12	17			1260			696			18	20	2	12	AH-3
OFFICE 212E, 212F	20	1	12	19			1260			696			20				
OFFICE 211A, 211B	20	1	12	21			1080			900			22	20	3	12	MAU-1
OFFICE 211C	20	1	12	23			540			900			24				
CONF CO'S	20	1	12	25			720			900			26				
OFFICE 205	20	1	12	27			900			900			28	20	3	12	MAU-2
SPARE	20	1	12	29						900			30				
SPARE	20	1	12	31						900			32				
SPARE	20	1	12	33						175			34	20	1	12	EF-3
SPARE	20	1	12	35						50			36	20	1	12	SMOKE/FIRE DAMPERS
SPARE	20	1	12	37						38			38	20	1		SPARE
SPARE	20	1	12	39						40			40	20	1		SPARE
SPARE	20	1	12	41						42			42	20	1		SPARE
					4140	5400	3960	5736	5215	5090							
					9876	10615	9050	TOTAL									
					82.30	88.46	75.42	AMPS/PHASE									

CONNECTED LOAD TOTAL 29541 VA
EQUIP RATING 10,000 AMPS RMS SYM.



1 ONE-LINE DIAGRAM
NO SCALE

ELECTRICAL SYMBOL SCHEDULE

1. SEE FIXTURE SCHEDULE FOR TYPE, MOUNTING AND WATTAGE.
2. HEIGHT MEASURED TO CENTER LINE OF THE BOX FROM THE FINISH FLOOR.
3. COORDINATE WITH MILLWORK SHOP DRAWINGS AND ELEVATIONS FOR HEIGHT.
4. SUBSCRIPT KEYS SWITCH TO FIXTURES CONTROLLED.
5. NEMA TYPE 'ND' NON-FUSED UNLESS NOTED 'F' (FUSED). USE 'HD' 480 V.
6. HEIGHT TO BE THE LOWER OF EITHER 80' A.F.F. OR 6' BELOW CEILING.

7. PROVIDE H.O.A. AND S.S. PUSHBUTTONS AS REQUIRED.
8. DOUBLE ARROWS DENOTE A DOUBLE FACE UNIT.
9. COORDINATE WITH MILLWORK SHOP DRAWINGS AND ELEVATIONS FOR HEIGHT.
10. SUBSCRIPT DENOTES NEMA CONFIGURATION.
11. HEIGHT MEASURED TO BOTTOM OF THE BOX FROM FINISH FLOOR.
* TYPICAL SYMBOL SCHEDULE. SOME SYMBOLS MAY NOT BE USED IN THIS SET OF DRAWINGS.

STANDARD MOUNTING HEIGHT UNLESS OTHERWISE NOTED ON PLANS		STANDARD MOUNTING HEIGHT UNLESS OTHERWISE NOTED ON PLANS	
DESCRIPTION	MOUNTING HEIGHT	SYMBOL	DESCRIPTION
ONE CIRCUIT, TWO WIRE HOME RUN TO PANEL		⊙	LUNCTION BOX ("F" IN FLOOR)
2 CIRCUIT, 3 WIRE, COMMON NEUTRAL HOME RUN		⊙	MOTOR OUTLET
3 CIRCUIT, 4 WIRE, COMMON NEUTRAL HOME RUN		⊙	PHOTO-ELECTRIC CONTROL
CONDUIT RUN CONCEALED IN WALL OR CEILING		⊙	TIME CLOCK
CONDUIT RUN CONCEALED IN FLOOR OR GROUND		⊙	PUSHBUTTON
CONDUIT UP		⊙	NON-FUSED DISCONNECT SWITCH
CONDUIT DOWN		⊙	FUSED DISCONNECT SWITCH
CONDUIT STUB LOCATION		⊙	MANUAL STARTER THERMAL OVERLOAD SWITCH WITH PILOT LIGHT
CABLE TRAY	AS NOTED	⊙	MAGNETIC STARTER
CEILING LIGHT FIXTURE	CEILING 1.	⊙	MAGNETIC STARTER / DISCONNECT COMBINATION
WALL LIGHT FIXTURE	AS NOTED 1.	⊙	VARIABLE FREQUENCY DRIVE
RECESSED DOWNLIGHT FIXTURE	CEILING 1.	⊙	PANEL BOARD
FLUORESCENT LIGHT FIXTURE	AS NOTED 1	⊙	MAIN DISTRIBUTION PANEL
FLUORESCENT EGRESS LIGHT FIXTURE	AS NOTED UNSWITCHED	⊙	TELEPHONE TERMINAL BOARD
AREA LIGHT POLE AND FIXTURE	CONCRETE BASE SEE DIAGRAM	⊙	BELL
FLOOR OR TRACK FIXTURE	AS NOTED	⊙	CHIME
CEILING MOUNTED EXIT LIGHT	CEILING 1.3.8.	⊙	FIRE ALARM MANUAL STATION
WALL MOUNTED EXIT LIGHT	AS NOTED 1.3.8.	⊙	FIRE ALARM SIGNAL HORN/STROBE PROJECTORS
SINGLE POLE SWITCH	+4'-0"	⊙	FIRE ALARM SIGNAL HORN/STROBE
SINGLE POLE SWITCH	+4'-0"	⊙	FIRE ALARM SIGNAL SPEAKER/STROBE
THREE-WAY SWITCH	+4'-0"	⊙	SMOKE DETECTOR
FOUR-WAY SWITCH	+4'-0"	⊙	DUCT SMOKE DETECTOR
KEY OPERATED SWITCH	+4'-0"	⊙	HEAT DETECTOR
SWITCH WITH PILOT LIGHT	+4'-0"	⊙	FIRE/SMOKE DAMPER
DIMMER SWITCH	+4'-0"	⊙	DOOR HOLDER
TIMER SWITCH	+4'-0"	⊙	FLOW SWITCH
MOMENTARY CONTACT SWITCH, CENTER POSITION OFF	+4'-0"	⊙	TAMPER SWITCH
OCCUPANCY SENSOR	CEILING	⊙	WATER FLOOD INDICATOR
OCCUPANCY SENSOR	+4'-0"	⊙	O.S. & Y. VALVE
POWER PACK	CEILING SEE DIAGRAM, SPEC.	⊙	FIRE ALARM RELAY
AUTOMATIC RELAY PACK	CEILING SEE DIAGRAM, SPEC.	⊙	FIRE ALARM CONTROL MODULE
LOW VOLTAGE TRANSFORMER		⊙	FIRE ALARM MONITOR MODULE
DUPLEX RECEPTACLE UPPER OUTLET SWITCH CONTROLLED	+16" OR AS NOTED 9. 11.	⊙	FIRE ALARM STROBE
SIMPLEX RECEPTACLE	+16" OR AS NOTED 9. 11.	⊙	DURESS PUSHBUTTON
DUPLEX RECEPTACLE	+16" OR AS NOTED 9. 11.	⊙	SECURITY SYSTEM DOOR SWITCH
DUPLEX RECEPTACLE	SEE DIAGRAM	⊙	SECURITY SYSTEM OVERHEAD DOOR SWITCH
ELECTRIC WATER COOLER RECEPTACLE	SEE DIAGRAM	⊙	MAGNETIC SHEAR LOCK
WEATHERPROOF RECEPTACLE	+24" OR AS NOTED 2. 9.	⊙	SECURITY SYSTEM KEYED ACCESS SWITCH
ISOLATED GROUND RECEPTACLE	+16" OR AS NOTED 9. 11.	⊙	INFRARED SENSOR
GROUND FAULT INTERRUPTER DUPLEX RECEPTACLE	+16" OR AS NOTED 9. 11.	⊙	SECURITY MOTION DETECTOR
DUPLEX RECEPTACLE EMERGENCY POWER (RED)	+16" OR AS NOTED 9. 11.	⊙	GLASS BREAK DETECTOR
FOURPLEX RECEPTACLE	+16" OR AS NOTED 9. 11.	⊙	ELECTRIC DOOR STRIKE
FOURPLEX RECEPTACLE EMERGENCY POWER (RED)	+16" OR AS NOTED 9. 11.	⊙	ACCESS CONTROL CARD READER
FLOOR OUTLET WITH 20A DEVICE	FLOOR	⊙	CLOSED CIRCUIT TELEVISION CAMERA
MULTIPLE SERVICE FLOOR BOX	FLOOR	⊙	DOOR POSITION INDICATING SWITCH
SPECIAL PURPOSE OUTLET	+16" OR AS NOTED 10. WITH CAP. 11.	⊙	SOUND SYSTEM SPEAKER
CORD DROP	SEE DIAGRAM	⊙	INTERCOM SPEAKER
PLUGMOLD	+48" OR AS NOTED	⊙	VOLUME CONTROL
TELEVISION OUTLET	+16" OR AS NOTED 11.	⊙	MICROPHONE OUTLET
DATA OUTLET	+16" OR AS NOTED 9. 11.	⊙	MICROPHONE FLOOR OUTLET
TELEPHONE OUTLET	+16" OR AS NOTED 9. 11.	⊙	MICROPHONE CEILING OUTLET
TELEPHONE/DATA OUTLET	+16" OR AS NOTED 9. 11.	⊙	SOUND EQUIPMENT CABINET
TELEPHONE OUTLET	FLOOR	⊙	ARCHITECTURAL ROOM NUMBER
CALL SWITCH	+4'-0"	⊙	LIGHT FIXTURE (LETTER DESIGNATES TYPE)
CLOCK OUTLET	+7'-6"	⊙	EQUIPMENT NUMBER
CLOCK/SPEAKER COMBINATION	+7'-6"	⊙	

- ### DEMOLITION NOTES
- COORDINATE ALL NEW ELECTRICAL EQUIPMENT REQUIREMENTS AND MAKE CONNECTION TO EXISTING SYSTEMS. THIS INCLUDES LIGHTING, POWER, SIGNAL, RACEWAY AND OTHER SYSTEMS INCLUDED UNDER DIVISION 16.
 - RELOCATE, REWIRE AND/OR RECONNECT EXISTING ELECTRICAL DEVICES AND/OR EQUIPMENT THAT FOR ANY REASON OBSTRUCTS CONSTRUCTION.
 - CONCEAL ALL RACEWAY AND WIRING IN EXISTING WALLS, CEILINGS, FLOORS, ETC. EXCEPT WHERE THE USE OF SURFACE METAL RACEWAYS (E.G. WIRE MOLD) IS INDICATED ON DRAWINGS OR IN SPEC.
 - LEAVE ALL EXISTING EQUIPMENT, IN PORTIONS OF THE BUILDING NOT BEING REMODELED, IN WORKING CONDITION, RESTORE ALL INTERRUPTED BRANCH CIRCUITS, FEEDERS, ETC. TO WORKING CONDITION.
 - EXISTING RACEWAYS MAY BE REUSED (IN PLACE) WHERE POSSIBLE, AND WHERE IN COMPLIANCE WITH THE SPECIFICATIONS AND THE INTENT OF THE CONTRACT DOCUMENTS. INSURE INTEGRITY OF EXISTING RACEWAY BEFORE REUSE.
 - REMOVE ALL RACEWAYS, CONDUCTORS, BOXES, DEVICES, EQUIPMENT, ETC. THAT ARE NOT TO BE REUSED.
 - REMOVE EXISTING LIGHT FIXTURES WHICH ARE NOT TO BE REUSED, PLACE IN CARTON, LABEL APPROPRIATELY, AND RETURN TO OWNER, OR PROPERLY DISPOSE OF FIXTURES THAT THE OWNER CHOOSES NOT TO KEEP.
 - DO NOT PENETRATE STRUCTURAL ELEMENTS OF FLOORS, WALLS, CEILINGS, ROOFS, ETC.
 - DISCONNECT AND RECONNECT ANY/ALL FIXTURES, DEVICES, EQUIPMENT, ETC. REQUIRED FOR PROPER COMPLETION OF THE WORK.

- ### GENERAL NOTES
- CONSULT ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF ALL LIGHTING FIXTURES.
 - VERIFY ALL EQUIPMENT DIMENSIONS AND LOCATIONS BEFORE BEGINNING ROUGH IN. CONSULT ALL APPLICABLE CONTRACT DRAWINGS AND SHOP DRAWINGS TO INSURE NEC CODE CLEARANCES REQUIRED AROUND ALL ELECTRICAL EQUIPMENT.
 - CONTRACTOR SHALL VERIFY ALL ELECTRICAL LOADS (VOLTAGE, PHASE, CONNECTION REQUIREMENTS, ETC.) OF EQUIPMENT FURNISHED UNDER DIVISION 15 WITH APPROVED MECHANICAL SHOP DRAWINGS BEFORE BEGINNING ROUGH IN.
 - SEE SECTION 16510 OF THE SPECIFICATION REQUIRED COORDINATION MEETINGS WITH MECHANICAL AND CEILING CONTRACTORS.
 - SEE APPLICABLE SHOP DRAWINGS FOR ROUGH IN LOCATION OF ALL EQUIPMENT, WIRING DEVICES, ETC. WHERE APPLICABLE MOUNT ALL WIRING DEVICES ABOVE BACK SPLASH EXCEPT THOSE SERVING UNDER COUNTER EQUIPMENT.
 - SEE SPECIFICATION FOR ENERGY SAVING LAMP AND BALLAST REQUIREMENTS.
 - FINISHES OF ALL LIGHT FIXTURES SHALL BE AS SELECTED BY ARCHITECT.
 - THE ELECTRICAL CONTRACTOR SHALL NOTIFY AND COOPERATE WITH THE MECHANICAL CONTRACTOR SUCH THAT NO PIPING, DUCTS, OR EQUIPMENT FOREIGN TO THE OPERATION OF THE ELECTRICAL EQUIPMENT SHALL BE PERMITTED TO BE INSTALLED IN, ENTER OR PASS THRU ELECTRICAL ROOMS OR SPACES, OR ABOVE OR BELOW ELECTRICAL EQUIPMENT IN OTHER AREAS.
 - ELECTRICAL BOXES SHALL NOT BE LOCATED IN MASONRY COLUMNS IN BRICK WALLS OR IN GROUTED CELLS ADJACENT TO OPENINGS. COORDINATE LOCATION OF BOXES WITH MASONRY CONTRACTOR.
 - ALL PENETRATIONS OF FIRE RATED FLOORS, WALLS, AND CEILINGS SHALL BE SEALED WITH APPROVED MATERIAL TO MAINTAIN FIRE RATING OF SURFACE PENETRATED.
 - CIRCUITS EXTENDING OVER 70' FOR 120 VOLT AND 165' FOR 277 VOLT 20 AMP CIRCUITS SHALL BE RUN WITH MINIMUM #10 CONDUCTORS.

INDEX OF ELECTRICAL DRAWINGS

E000	SYMBOLS, SCHEDULES, AND NOTES
E200	LEVEL 0 LIGHTING PLAN
E201	LEVEL 1 LIGHTING PLAN
E202	LEVEL 2 LIGHTING PLAN
E300	LEVEL 0 POWER PLAN
E301	LEVEL 1 POWER PLAN
E302	LEVEL 2 POWER PLAN
E500	ELECTRICAL DIAGRAMS

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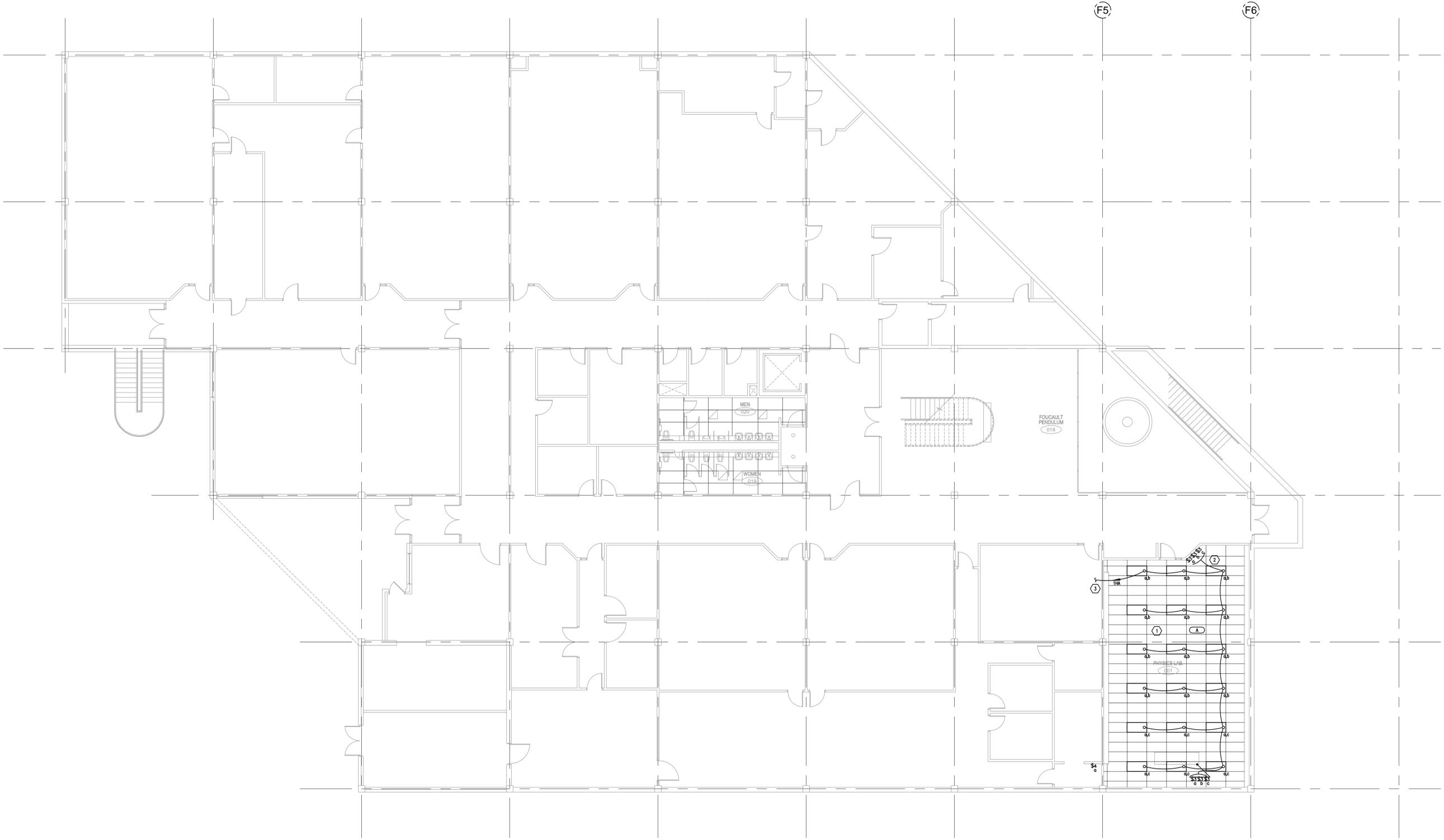
Revision # Date

Axis Job # 07072A Owner # 03-14-07 Date Drawn BNA Checked EF

E000

SHEET KEYNOTES

- ① REMOVE EXISTING LIGHT FIXTURES AND WIRING IN THIS AREA.
- ② SWITCH INSIDE LAMPS WITH FIRST SWITCH AND OUTSIDE LAMPS WITH SECOND SWITCH.
- ③ CIRCUIT TO EXISTING 277 VOLT LIGHTING CIRCUIT PREVIOUSLY FEEDING THIS ROOM.



PLAN NORTH
LEVEL 0 LIGHTING PLAN
 SCALE: 1/8" = 1'-0"
 0 4' 8' 16'

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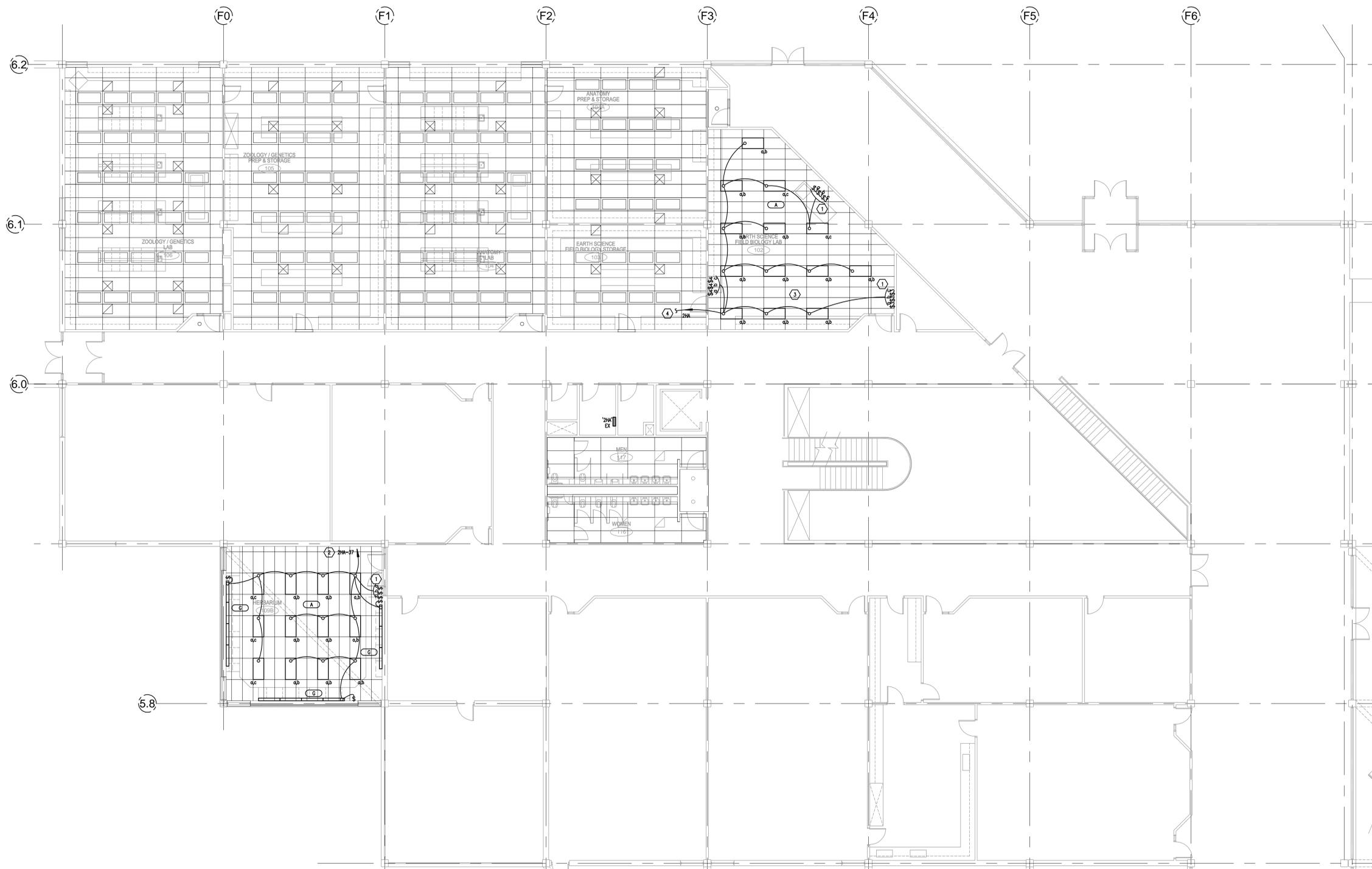
LEVEL 0
 LIGHTING PLAN

E200

By: Revit, Mar 21, 2007 - 5:21 pm
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SHEET KEYNOTES

- ① SWITCH INSIDE LAMPS WITH FIRST SWITCH AND OUTSIDE LAMPS WITH SECOND SWITCH.
- ② CIRCUIT TO A NEW 20 AMP 1 POLE CIRCUIT BREAKER IN EXISTING PANEL '2HA'.
- ③ REMOVE EXISTING LIGHT FIXTURES AND WIRING IN THIS ROOM.
- ④ CIRCUIT TO EXISTING LIGHTING CIRCUIT PREVIOUSLY FEEDING THIS ROOM.



PLAN NORTH
LEVEL 1 LIGHTING PLAN
 SCALE: 1/8" = 1'-0"
 0 4' 8' 16'

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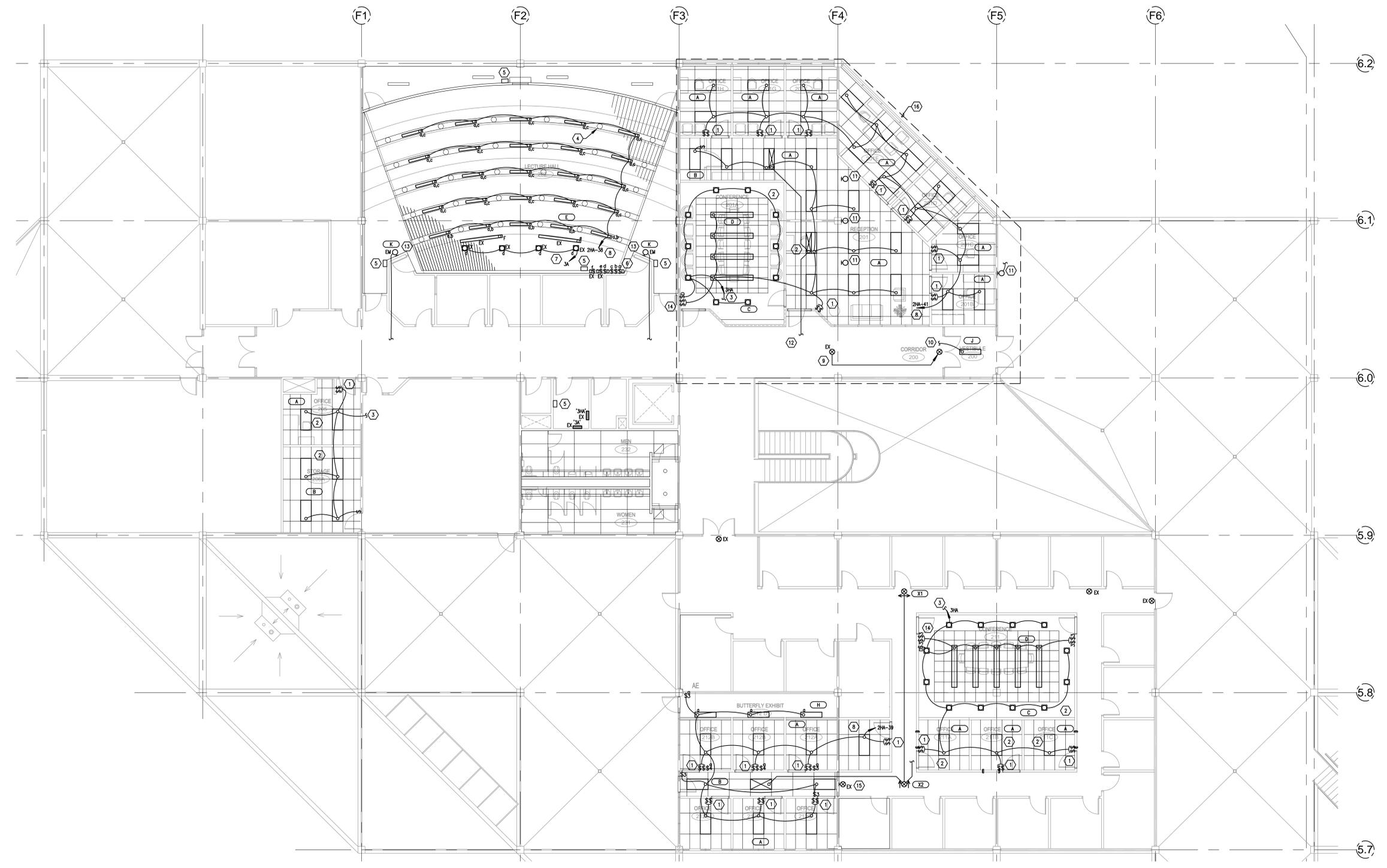
LEVEL 1
 LIGHTING PLAN

E201

By: Paul, Mar 21, 2007 - 5:21 pm
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SHEET KEYNOTES

- 1 SWITCH INSIDE LAMPS WITH FIRST SWITCH AND OUTSIDE LAMPS WITH SECOND SWITCH.
- 2 REMOVE EXISTING LIGHT FIXTURES AND WIRING IN THIS ROOM.
- 3 CIRCUIT NEW LIGHTS TO EXISTING 277 VOLT LIGHTING CIRCUIT PREVIOUSLY FEEDING THIS ROOM.
- 4 REMOVE EXISTING DOWNLIGHTS AND WIRING.
- 5 REMOVE EXISTING DIMMING SYSTEM, CONTROL SWITCHES, AND PROVIDE BLANK COVERPLATE.
- 6 CIRCUIT UPLIGHT ON SWITCH "a" AND DOWNLIGHTS ON SWITCH "b" OR SWITCH "c" AS SHOWN.
- 7 REMOVE DIMMING SYSTEM WIRING AND CIRCUIT EXISTING DOWNLIGHTS TO A 20 AMP 1 POLE CIRCUIT BREAKER IN EXISTING 120 VOLT PANEL.
- 8 CIRCUIT TO A 20 AMP 1 POLE CIRCUIT BREAKER IN EXISTING 277 VOLT PANEL INDICATED.
- 9 RELOCATE EXISTING EXIT LIGHT TO NEW LOCATION.
- 10 CONNECT TO EXISTING HALLWAY LIGHTING CIRCUIT.
- 11 REMOVE EXISTING EXTERIOR WALL FIXTURES. RELOCATE 1 FIXTURE TO GRID F5 AS SHOWN. CONNECT TO EXISTING EXTERIOR WALL LIGHTING CIRCUIT. RETURN TWO REMAINING FIXTURES TO OWNER.
- 12 CONNECT 1 BALLAST (1 LAMP) TO EXISTING HALLWAY EMERGENCY LIGHTING CIRCUIT.
- 13 CIRCUIT EMERGENCY LIGHT TO CORRIDOR EMERGENCY LIGHTING OUTLET. FIXTURES SHALL ONLY OPERATE ON UPON LOSS OF POWER.
- 14 SWITCH UPLIGHT WITH FIRST SWITCH AND DOWNLIGHT WITH SECOND SWITCH IN PENDANT FIXTURE.
- 15 REMOVE EXISTING EXIT SIGN. CONNECT NEW HALLWAY EMERGENCY LIGHT AND NEW EXIT SIGN TO EXISTING HALLWAY EMERGENCY LIGHTING CIRCUIT.
- 16 ADD ALTERNATE



PLAN NORTH
LEVEL 2 LIGHTING PLAN
 SCALE: 1/8" = 1'-0"
 0 4' 8' 16'

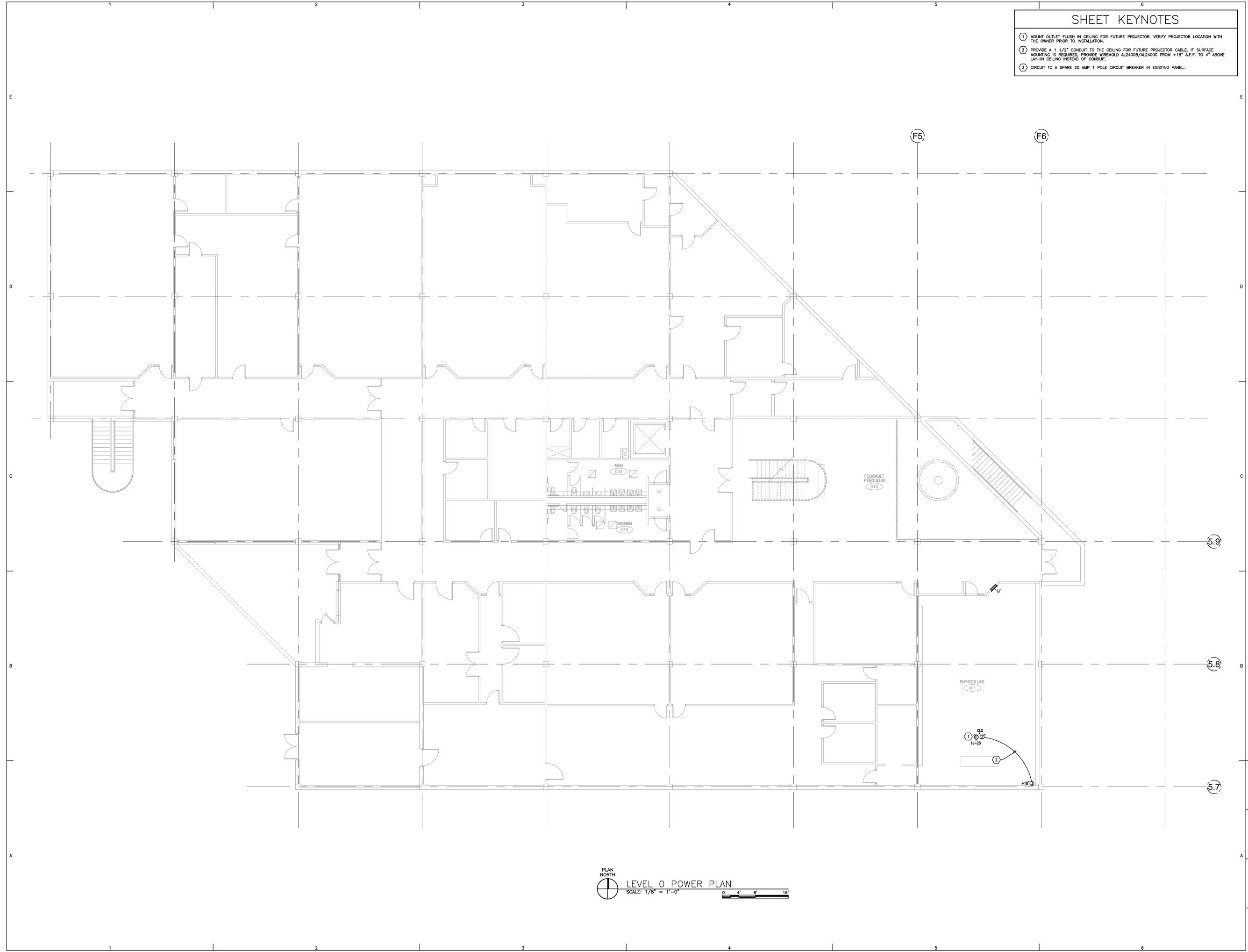
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Drawn	BNA
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SHEET KEYNOTES

- ① MOUNT OUTLET FLUSH IN CEILING FOR FUTURE PROJECTOR. VERIFY PROJECTOR LOCATION WITH THE OWNER PRIOR TO INSTALLATION.
- ② PROVIDE A 1 1/2" CONDUIT TO THE CEILING FOR FUTURE PROJECTOR CABLE. IF SURFACE MOUNTING IS REQUIRED, PROVIDE WIREMOLD AL2400B/AL2400C FROM +18" A.F.F. TO 4" ABOVE LAY-IN CEILING INSTEAD OF CONDUIT.
- ③ CIRCUIT TO A SPARE 20 AMP 1 POLE CIRCUIT BREAKER IN EXISTING PANEL.



PLAN NORTH
LEVEL 0 POWER PLAN
 SCALE: 1/8" = 1'-0"
 0 4' 8' 16'

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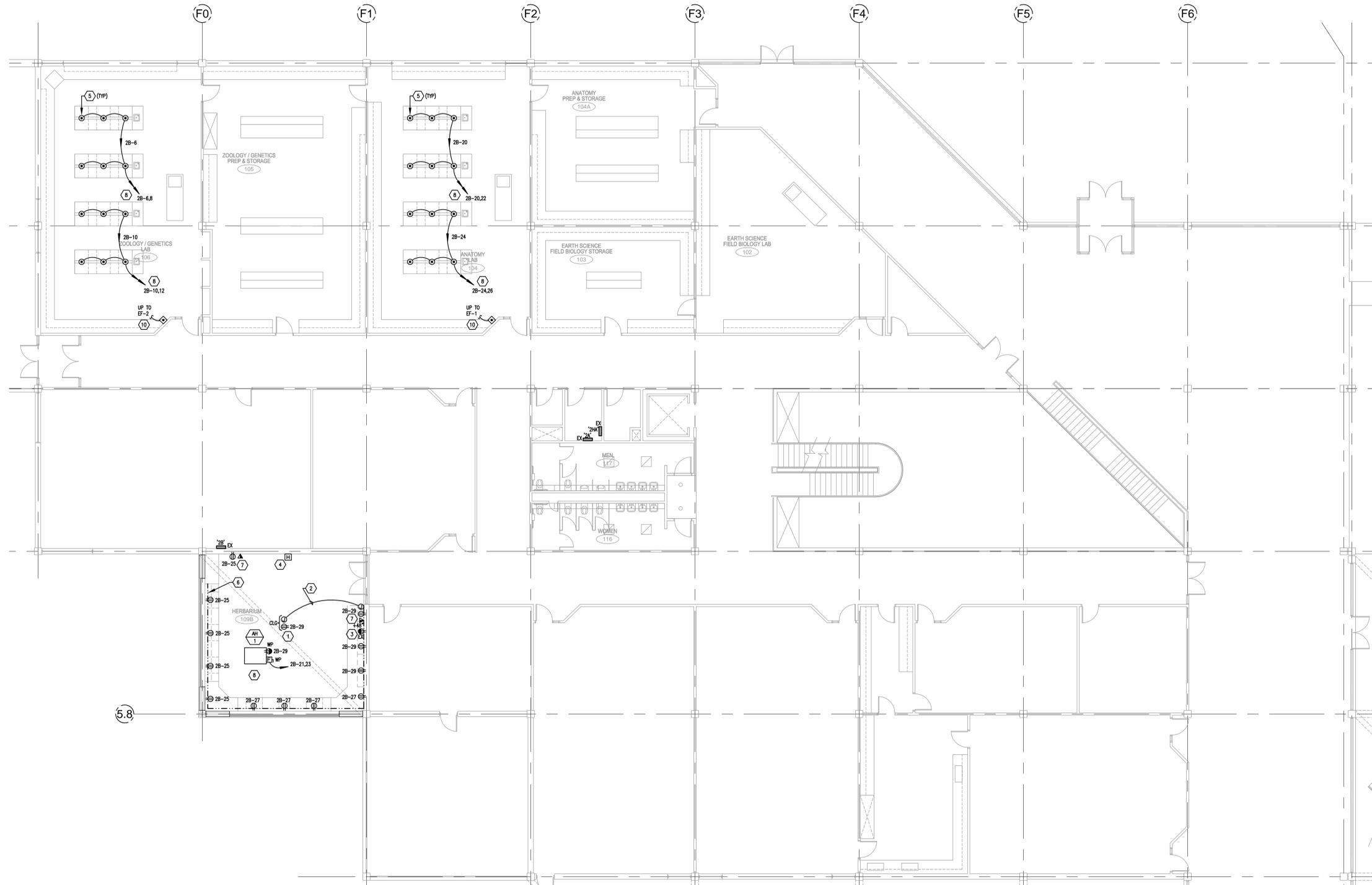
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LEVEL 0
 POWER PLAN
E300

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SHEET KEYNOTES

- ① MOUNT OUTLET FLUSH IN CEILING FOR FUTURE PROJECTOR. VERIFY PROJECTOR LOCATION WITH THE OWNER PRIOR TO INSTALLATION.
- ② PROVIDE A 1 1/2" CONDUIT TO THE CEILING FOR FUTURE PROJECTOR CABLE. IF SURFACE MOUNTING IS REQUIRED, PROVIDE WIREMOLD AL2400B/AL2400C FROM +18" A.F.F. TO 4" ABOVE LAY-IN CEILING INSTEAD OF CONDUIT.
- ③ REMOVE EXISTING OUTLET AND WIRING.
- ④ CONNECT NEW HORN/STROBE INTO EXISTING FIRE ALARM INDICATING LOOP.
- ⑤ PROVIDE HUBBELL FR80A-(2)SS309DS WITH (2) 20 AMP GFCI OUTLETS. MOUNT TO TOP OF COUNTER PER ARCHITECT'S INSTRUCTIONS. CIRCUIT TO A 20 AMP 1 POLE CIRCUIT BREAKER IN EXISTING PANEL. PROVIDE A SEPARATE NEUTRAL FOR EACH CIRCUIT.
- ⑥ PROVIDE WIREMOLD G-4000 RACEWAY ABOVE BACK SPLASH WITH OUTLETS LOCATED AS SHOWN.
- ⑦ PROVIDE A 3/4" CONDUIT FROM VOICE/DATA OUTLET TO THE CORRIDOR CABLE TRAY.
- ⑧ CIRCUIT TO 20 AMP 1 POLE CIRCUIT BREAKERS IN EXISTING PANEL INDICATED.
- ⑨ CIRCUIT TO A 2 POLE CIRCUIT BREAKER IN EXISTING PANEL INDICATED.
- ⑩ PROVIDE CONTROL WIRING IN 3/4" CONDUIT (WIREMOLD IF SURFACE MOUNTING IS REQUIRED), FROM START/STOP SWITCH TO EXHAUST FAN ON ROOF.



PLAN NORTH
LEVEL 1 POWER PLAN
 SCALE: 1/8" = 1'-0"
 0 4' 8' 16'

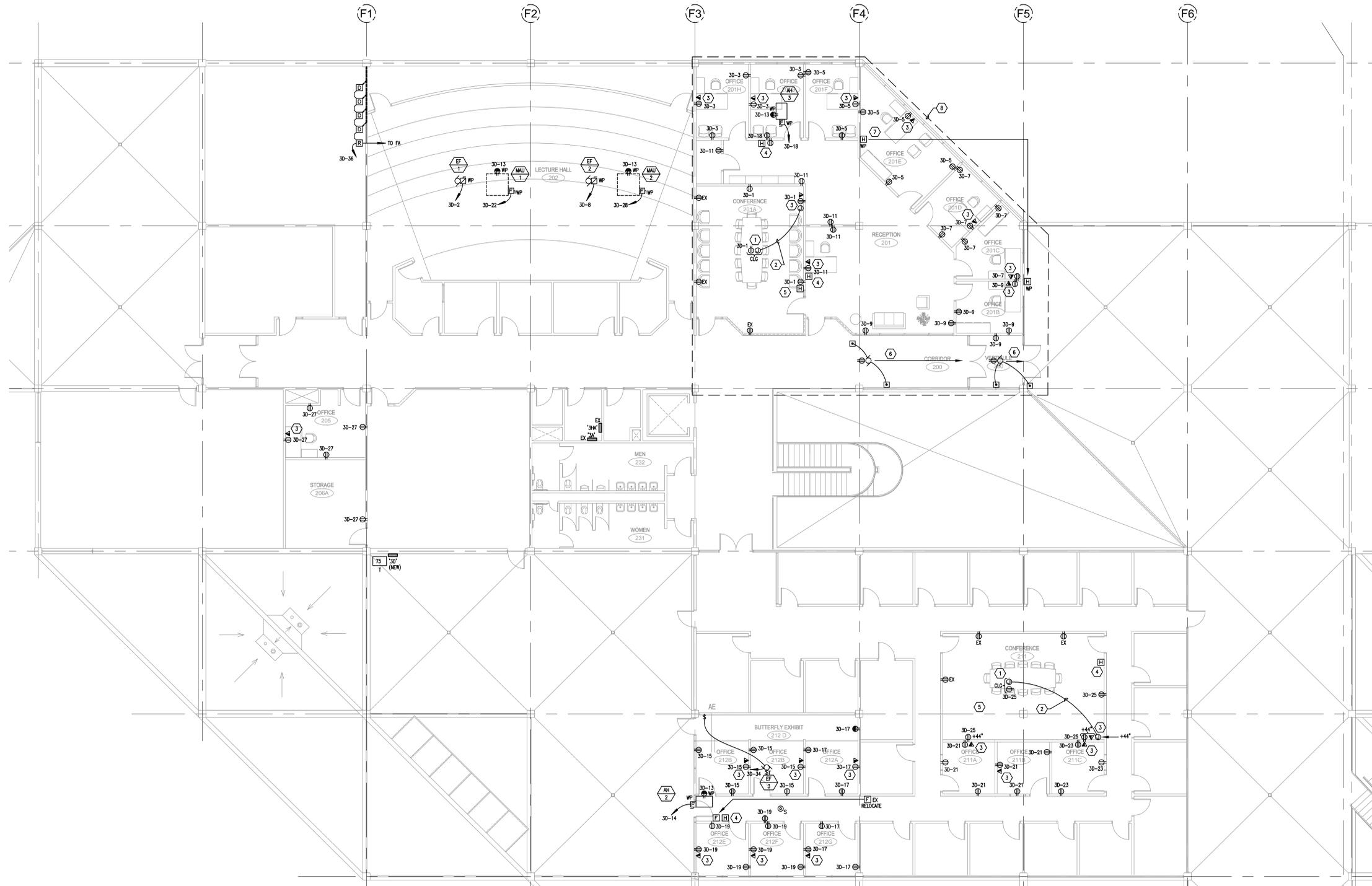
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SHEET KEYNOTES

- ① MOUNT OUTLET FLUSH IN CEILING FOR FUTURE PROJECTOR. VERIFY PROJECTOR LOCATION WITH THE OWNER PRIOR TO INSTALLATION.
- ② PROVIDE A 1 1/2" CONDUIT TO THE CEILING FOR FUTURE PROJECTOR CABLE. IF SURFACE MOUNTING IS REQUIRED, PROVIDE WIREMOLD AL2400B/AL2400C FROM +18" A.F.F. TO 4" ABOVE LAY-IN CEILING INSTEAD OF CONDUIT.
- ③ PROVIDE A 3/4" CONDUIT FROM THE VOICE/DATA OUTLET TO THE CABLE TRAY.
- ④ CONNECT NEW HORN/STROBE TO THE EXISTING FIRE ALARM INDICATING LOOP.
- ⑤ REMOVE EXISTING OUTLETS IN DEMOLISHED WALLS.
- ⑥ RELOCATE POWER AND CONTROL WIRING FOR DOOR OPERATORS TO NEW DOOR LOCATIONS.
- ⑦ RELOCATE EXISTING EXTERIOR FIRE ALARM HORN TO NEW LOCATION SHOWN.
- ⑧ ADD ALTERNATE.



PLAN NORTH
LEVEL 2 POWER PLAN
 SCALE: 1/8" = 1'-0"
 0 4' 8' 16'

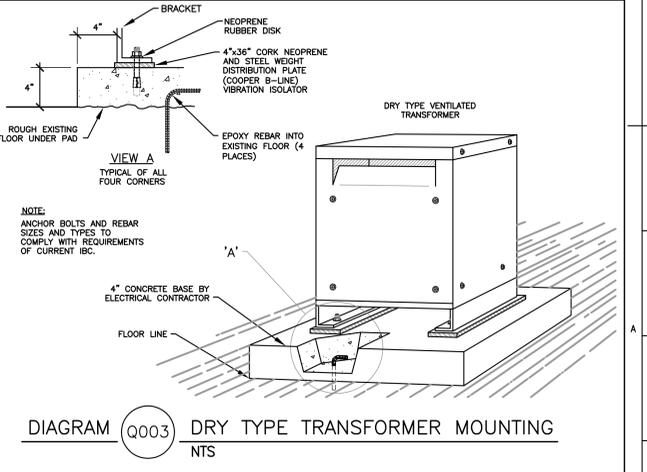
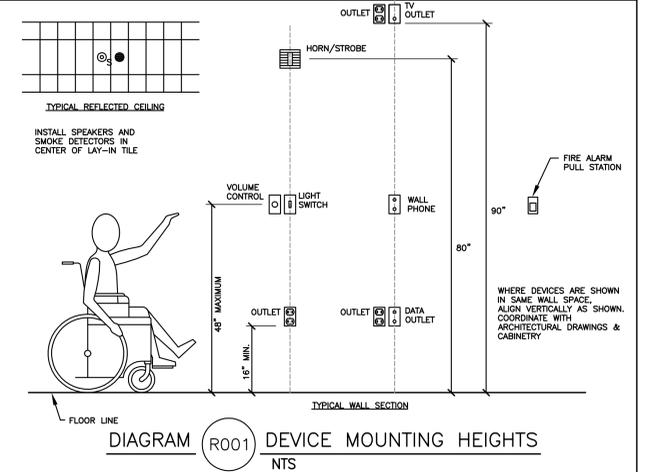
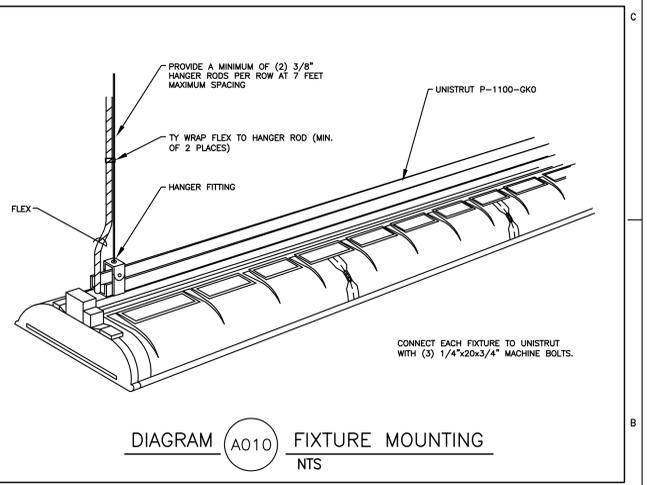
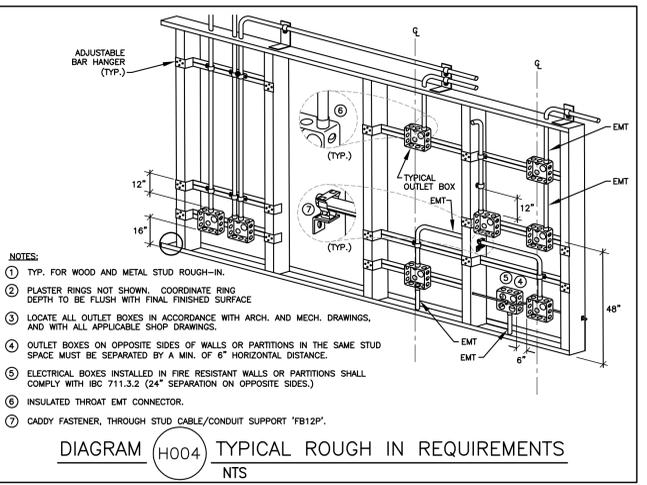
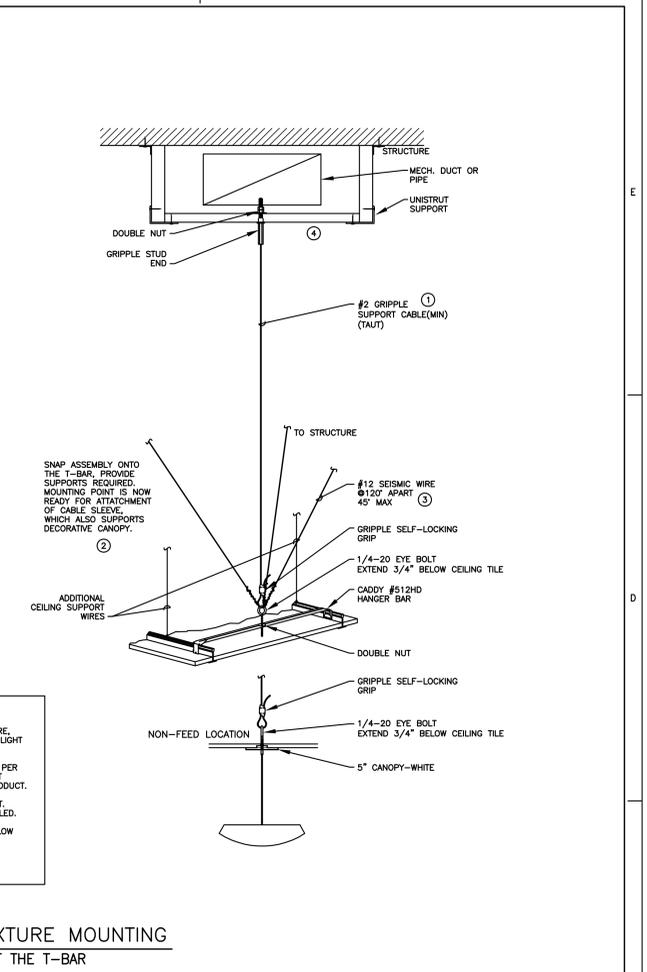
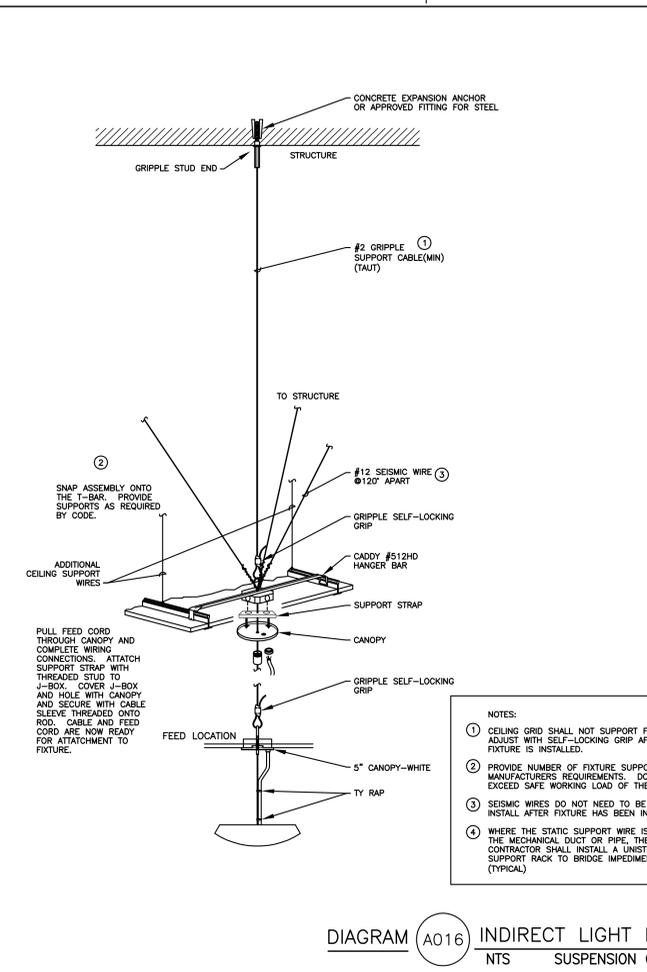
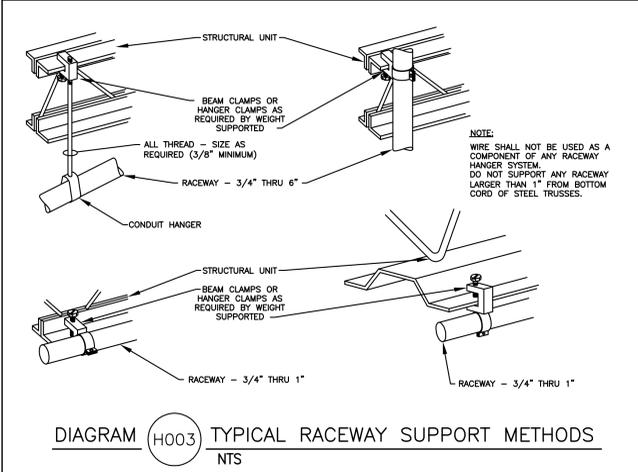
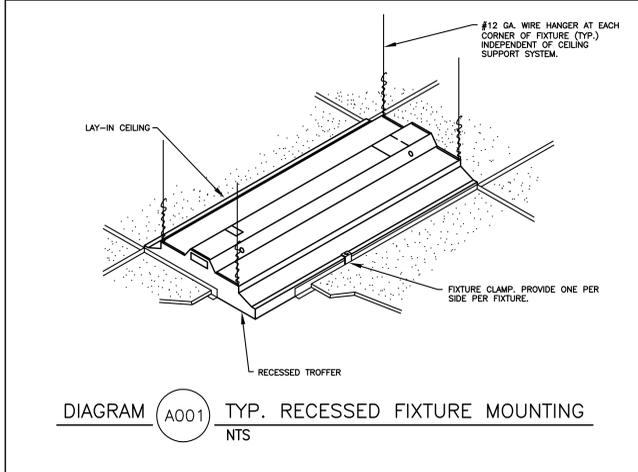
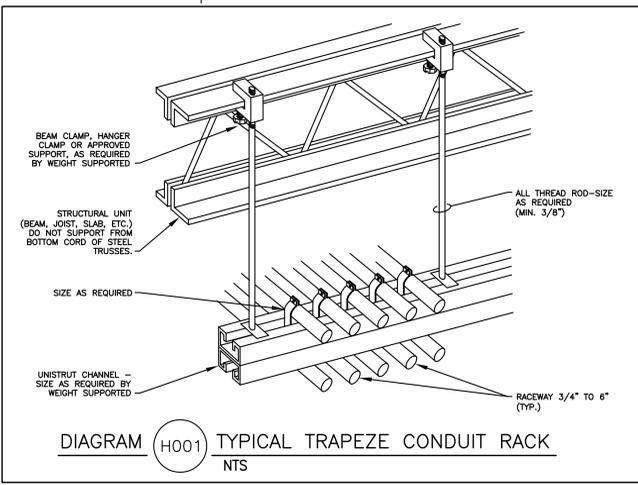
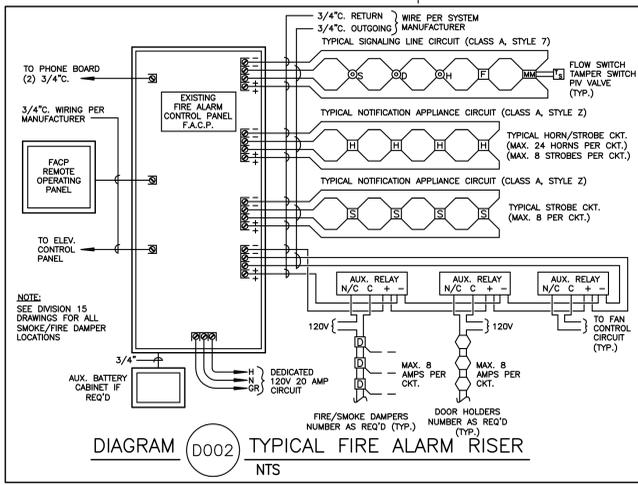
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**LEVEL 2
 POWER PLAN**

E302

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635 South State Street
Salt Lake City, Utah 84111
P: 801.532.2196
F: 801.532.2305
www.axisarchitects.com

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ELECTRICAL
DIAGRAMS

E500