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0502

JUNE 2006
100%
CONSTRUCTION
DOCUMENTS

ATE CENTER UTAH STATE PRISON VOCATIONAL CLASSROOMS

DRAPER, UTAH

OWNER

UTAH STATE DIVISION OF
FACILITIES CONSTRUCTION AND MANAGEMENT

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CIVIL
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STRUCTURAL

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PLUMBING

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VICINITY MAP

CODE ANALYSIS

APPLICABLE CODES			
	Year		Year
International Building Code	2003	National Electrical Code	2005
International Mechanical Code	2003	Uniform Code for Building Conservation	NA
International Plumbing Code	2003	ADA Accessibility Guidelines	1997 EDITION
International Fire Code	2003		
International Energy Conservation Code	2003		

A. Occupancy and Group: B OCCUPANCY
Change in Use: Yes ___ No ___ X ___ Mixed Occupancy: Yes ___ No ___ X ___
Special Use and Occupancy (e.g. High Rise, Covered Mall): ___ NO ___

B. Seismic Design Category: ___ I ___ II ___ III ___ IV ___ V ___ VI ___ VII ___ VIII ___ IX ___ X ___ XI ___ XII ___
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

NOTE: Includes existing building to be incorporated into new building

D. Fire Resistance Rating Requirements for the Exterior Walls based on the fire separation distance (in hours):
North: ___ 0 ___ South: ___ 0 ___ East: ___ 0 ___ West: ___ 0 ___

E. Mixed Occupancies: ___ NO ___ Nonseparated Uses: ___ NO ___

F. Sprinklers:
Required: ___ NO ___ Provided: ___ NO ___ Type of Sprinkler System: ___

G. Number of Stories: ___ 1 ___ Building Height: ___ 13 FEET ___

H. Actual Area per Floor (square feet): ___ 10,693 NEW CONSTRUCTION + 1,790 SF EXISTING BUILDING = 12,483 TOTAL SF

I. Tabular Area: ___ 9,000 SF

J. Area Modifications:

$$A_p = 9,000 \left[\frac{9,000 (75)}{100} \right] = 13,590 \text{ SF ALLOWABLE}$$

$$I_r = 100 \left[\frac{784}{984} - .25 \right] \frac{30}{30} = 51$$

b) Sum of the Ratio Calculations for Mixed Occupancies:
NA

c) Total Allowable Area for: NA

d) Unlimited Area Building: Yes ___ No ___ X ___ Code Section: ___ 507 ___

K. Fire Resistance Rating Requirements for Building Elements (hours).

Element	Hours	Assembly Listing	Element	Hours	Assembly Listing
Exterior Bearing Walls	0		Floors - Ceiling Floors	0	
Interior Bearing Walls	0		Roofs - Ceiling Roofs	0	
Exterior Non-Bearing Walls	0		Exterior Doors and Windows	0	
Structural Frame	0		Shaft Enclosures	NA	
Partitions - Permanent	0		Fire Walls	NA	
Fire Barriers	NA		Fire Partitions	NA	
			Smoke Partitions	NA	

L. Design Occupant Load: PER DPT. OF CORRECTIONS: 459 OCC.
MAX. OCCUPANT LOAD PER CLASSROOM = 45 PEOPLE
Exit Width Required (based on 459 occ.): 92' Exit Width Provided: 408'
Total occupant load factor = 94% male to 6% female

M. Minimum Number of Required Plumbing Facilities (based on 459 occ.)
Note: the required fixture count is proportionate to the male inmate population.

a) Water Closets - Required (m) ___ 8 ___ (f) ___ 1 ___ Provided (m) ___ 17 ___ (f) ___ 1 ___
b) Lavatories - Required (m) ___ 4 ___ (f) ___ 1 ___ Provided (m) ___ 9 ___ (f) ___ 1 ___
c) Bath Tubs or Showers: ___ 0 ___
d) Drinking Fountains - Required: ___ 5 ___ Provided ___ 6 ___
e) Service Sinks: ___ 2 ___

FOOTNOTES:
1) In case of conflict with the U.S. Department of Justice Federal Registers Parts I through X - ADA Guidelines and specific reference to the International Building Code Accessibility Chapters, the more restrictive requirement shall govern.
2) Additional Code Information shall be provided at the discretion of the Building Official for Complex Buildings. Including, but not limited to:
a) High Rise Requirements.
b) Atriums.
c) Performance Based Criteria.
d) Means or Egress Analysis.
e) Fire Assembly Locator Sheet.
f) Exterior and Interior Accessibility Route.
g) Fire Stopping, Including Tested Design Number.

base bid

ALL SITE WORK INCLUDING, BUT NOT LIMITED TO: SITE IMPROVEMENTS AND INFRASTRUCTURE. ALL EXCAVATION FOR UNDERGROUND UTILITIES AND CONCRETE SLABS, FOOTINGS, FOUNDATIONS AND DAMP-PROOFING, ALL UNDER-SLAB PLUMBING AND ELECTRICAL ROUGH-INS. ALL OTHER CONSTRUCTION INDICATED ON PLANS N.I.C AT THIS TIME.

add alternate #1

COMPLETE CONSTRUCTION AS SPECIFIED HEREIN FOR THE ENTIRE RESTROOM PORTION OF THE BUILDING LOCATED BETWEEN GRIDS 5 & 6 AS SHOWN ON FLOOR PLANS



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PROJECT DESCRIPTION
ATE CENTER AT
UTAH STATE PRISON
VOCATIONAL
CLASSROOMS

DRAPER, UTAH

SHEET NAME:
COVER SHEET

REVISIONS
MARK DATE DESCRIPTION

ISSUE DATA
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SHEET NUMBER:

G1001

GENERAL NOTES

1.1 COMPLIANCE

- ALL WORK TO CONFORM TO GOVERNING MUNICIPALITY'S STANDARDS, SPECIFICATIONS AND REQUIREMENTS.
- ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THESE CONTRACT DOCUMENTS AND THE MOST RECENT, ADOPTED EDITIONS OF THE FOLLOWING: INTERNATIONAL BUILDING CODE (IBC), THE INTERNATIONAL PLUMBING CODE, STATE DRINKING WATER REGULATIONS, APWA MANUAL OF STANDARD PLANS AND SPECIFICATIONS, ADA ACCESSIBILITY GUIDELINES.
- ALL CONSTRUCTION SHALL BE AS SHOWN ON THESE PLANS. ANY REVISIONS MUST HAVE PRIOR WRITTEN APPROVAL.

1.2 PERMITTING AND INSPECTIONS

- PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING SURE THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED THOROUGHLY REVIEWED PLANS AND OTHER DOCUMENTS APPROVED BY ALL OF THE PERMITTING AUTHORITIES.
- CONTRACTOR IS RESPONSIBLE FOR SCHEDULING AND NOTIFYING ARCHITECT/ENGINEER OR INSPECTING AUTHORITY 48 HOURS IN ADVANCE OF COVERING UP ANY PHASE OF CONSTRUCTION REQUIRING OBSERVATION.
- ANY WORK IN THE PUBLIC RIGHT-OF-WAY WILL REQUIRE PERMITS FROM THE APPROPRIATE, CITY, COUNTY OR STATE AGENCY CONTROLLING THE ROAD AND WITH APPROPRIATE INSPECTIONS.

1.3 COORDINATION & VERIFICATION

- ALL DIMENSIONS, GRADES & UTILITY DESIGNS SHOWN ON THE PLANS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH CONSTRUCTION FOR NECESSARY PLAN OR GRADE CHANGES. NO EXTRA COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR WORK HAVING TO BE REDONE DUE TO DIMENSIONS OR GRADES SHOWN INCORRECTLY ON THESE PLANS, IF NOT VERIFIED AND NOTIFICATION OF CONFLICTS HAVE NOT BEEN BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER.
- CONTRACTOR MUST VERIFY ALL EXISTING CONDITIONS BEFORE BIDDING AND BRING UP ANY QUESTIONS BEFOREHAND. NO ALLOWANCE WILL BE MADE FOR DISCREPANCIES OR OMISSIONS THAT CAN BE EASILY OBSERVED.
- CONTRACTOR TO COORDINATE WITH ALL OTHER DISCIPLINES, INCLUDING BUT NOT LIMITED TO: LANDSCAPE PLANS, SITE ELECTRICAL SITE LIGHTING PLANS AND ELECTRICAL SERVICE TO THE BUILDING(S), MECHANICAL PLANS FOR LOCATION OF SERVICES TO THE BUILDING(S), INCLUDING FIRE PROTECTION, ARCHITECTURAL SITE PLAN FOR DIMENSIONS, ACCESSIBLE ROUTES, ETC., NOT SHOWN ON CIVIL PLANS.
- CONTRACTOR IS TO COORDINATE LOCATION OF NEW TELEPHONE SERVICE, GAS SERVICE, CABLE, ETC. TO BUILDING WITH THE APPROPRIATE UTILITY COMPANY. FOR TELEPHONE, CONTRACTOR TO FURNISH CONDUIT, PLYWOOD BACKBOARD, AND GROUND WIRE, AS REQUIRED.

1.4 SAFETY AND PROTECTION

- CONTRACTOR IS SOLELY RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR THE SAFETY OF THE PROJECT AND SHALL MEET ALL OSHA REQUIREMENTS.
- CONTRACTOR IS RESPONSIBLE FOR CONFORMING TO LOCAL AND FEDERAL CODES GOVERNING SHORING AND BRACING OF EXCAVATIONS AND TRENCHES, AND FOR THE PROTECTION OR WORKERS AND PUBLIC.
- CONTRACTOR SHALL TAKE ALL MEASURES NECESSARY TO PROTECT ALL EXISTING PUBLIC AND PRIVATE PROPERTY, ROADWAYS, AND UTILITY IMPROVEMENTS. DAMAGE TO EXISTING IMPROVEMENTS CAUSED BY THE CONTRACTOR MUST BE REPAIRED BY THE CONTRACTOR AT HIS/HER EXPENSE TO THE SATISFACTION OF THE OWNER OF SAID IMPROVEMENTS.
- CONTRACTOR IS REQUIRED TO KEEP ALL CONSTRUCTION ACTIVITIES WITHIN THE APPROVED PROJECT LIMITS. THIS INCLUDES, BUT IS NOT LIMITED TO, VEHICLE AND EQUIPMENT STAGING, MATERIAL STORAGE AND LIMITS OF TRENCH EXCAVATION.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN PERMISSION AND/OR EASEMENTS FROM THE APPROPRIATE GOVERNMENT AGENCY AND/OR INDIVIDUAL PROPERTY OWNER(S) FOR WORK OR STAGING OUTSIDE OF THE PROJECT LIMITS.
- CONTRACTOR SHALL PROVIDE BARRICADES, SIGNS, FLASHERS, OTHER EQUIPMENT AND FLAG PERSONS NECESSARY TO INSURE THE SAFETY OF WORKERS AND VISITORS. ALL CONSTRUCTION SIGNING, BARRICADING, AND TRAFFIC DELINEATION SHALL CONFORM TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", LATEST EDITION.
- CONTRACTOR SHALL COMPLY WITH LOCAL NOISE ORDINANCE STANDARDS.
- CONTRACTOR IS RESPONSIBLE FOR DUST CONTROL ACCORDING TO GOVERNING AGENCY STANDARDS.
- CONTRACTOR SHALL TAKE ALL NECESSARY AND PROPER PRECAUTIONS TO PROTECT ADJACENT PROPERTIES FROM ANY AND ALL DAMAGE THAT MAY OCCUR FROM STORM WATER RUNOFF AND/OR DEPOSITION OF DEBRIS RESULTING FROM ANY AND ALL WORK IN CONNECTION WITH CONSTRUCTION. SUBMIT A STORM WATER POLLUTION PREVENTION PLAN, IF REQUIRED.
- WORK IN PUBLIC STREETS, ONCE BEGUN, SHALL BE PROSECUTED TO COMPLETION WITHOUT DELAY AS TO PROVIDE MINIMUM INCONVENIENCE TO ADJACENT PROPERTY OWNERS AND TO THE TRAVELING PUBLIC.
- CONTRACTOR SHALL PROVIDE ALL NECESSARY HORIZONTAL AND VERTICAL TRANSITIONS BETWEEN NEW CONSTRUCTION AND EXISTING SURFACES TO PROVIDE FOR PROPER DRAINAGE AND FOR INGRESS AND EGRESS TO NEW CONSTRUCTION.
- NATURAL VEGETATION AND SOIL COVER SHALL NOT BE DISTURBED PRIOR TO ACTUAL CONSTRUCTION OF A REQUIRED FACILITY OR IMPROVEMENT. MASS CLEARING OF THE SITE IN ANTICIPATION OF CONSTRUCTION SHALL BE AVOIDED. CONSTRUCTION TRAFFIC SHALL BE LIMITED TO ONE APPROACH TO THE SITE. THE APPROACH SHALL BE DESIGNATED BY THE OWNER OR GOVERNING AGENCY.
- THE CONTRACTOR SHALL TAKE REASONABLE MEASURE TO PROTECT EXISTING IMPROVEMENTS FROM DAMAGE AND ALL SUCH IMPROVEMENTS DAMAGED BY THE CONTRACTOR'S OPERATION SHALL BE REPAIRED OR RECONSTRUCTED TO THE ENGINEER/OWNER'S SATISFACTION AT THE EXPENSE OF THE CONTRACTOR.

GENERAL NOTES CONTINUED

1.5 MATERIALS

- SITE CONCRETE SHALL BE A MINIMUM 6.5 BAG MIX, 4000 P.S.I. @ 28 DAYS, 4" MAXIMUM SLUMP WITH 5 + OR - 1% AIR ENTRAINMENT, UNLESS SPECIFIED OTHERWISE. -SEE SPECIFICATION
 - SLABS-ON-GRADE WILL BE TYPICALLY SCORED (1/4 THE DEPTH) AT INTERVALS NOT TO EXCEED THEIR WIDTH OR 12 TIMES THEIR DEPTH, WHICHEVER IS LESS. SCORING WILL BE PLACED TO PREVENT RANDOM CRACKING. FULL DEPTH EXPANSION JOINTS WILL BE PLACED AGAINST ANY OBJECT DEEMED TO BE FIXED, CHANGES IN DIRECTION AND AT EQUAL INTERVALS NOT TO EXCEED 50 FEET.
 - CONCRETE WATERWAYS, CURB/WALLS, MOWSTRIPS, CURB AND GUTTER, ETC. WILL TYPICALLY BE SCORED (1/4 THE DEPTH AT INTERVALS NOT TO EXCEED 10 FEET AND HAVE FULL DEPTH EXPANSION JOINTS AT EQUAL SPACING NOT TO EXCEED 50 FEET.
 - UNLESS OTHERWISE NOTED, ALL SLABS-ON-GRADE WILL HAVE A MINIMUM 8" TURNED-DOWN EDGE TO HELP CONTROL FROST HEAVE.
 - UNLESS OTHERWISE NOTED, ALL ON-GRADE CONCRETE WILL BE PLACED ON A MINIMUM 4" GRAVEL BASE OVER A WELL COMPACTED (90%) SUBGRADE.
 - ALL EXPOSED SURFACES WILL HAVE A TEXTURED FINISH, RUBBED OR BROOMED. ANY "PLASTERING" OF NEW CONCRETE WILL BE DONE WHILE IT IS STILL "GREEN".
 - ALL JOINTS (CONTROL, CONSTRUCTION OR EXPANSION JOINTS, ETC.) WILL BE SEALED WITH A ONE PART POLYURETHANE SEALANT (SEE SPECIFICATION).
- ASPHALTIC CONCRETE PAVEMENT SHALL BE A MINIMUM 3" OVER 6" OF COMPACTED (95%) ROAD BASE OVER PROPERLY PREPARED AND COMPACTED (90%) SUBGRADE, UNLESS NOTED OTHERWISE. -SEE SPECIFICATIONS, AND DETAIL 'D1' SHEET C5.01
 - ASPHALT CONCRETE SHALL BE A MINIMUM 96% (MARSHALL DESIGN).
 - SURFACE COARSE SHALL BE 1/2" MINUS. MIX DESIGN TO BE SUBMITTED FOR APPROVAL AT LEAST TWO WEEKS PRIOR TO ANTICIPATED PAVING SCHEDULE.
 - AC PAVEMENT TO BE A 1/4" ABOVE LIP OF ALL GUTTER AFTER COMPACTION.
 - THICKNESSES OVER 3" WILL BE LAID IN TWO LIFTS WITH THE FIRST LIFT BEING AN APPROVED 3/4" MINUS DESIGN.

1.6 GRADING / SOILS

- SITE GRADING SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND THE RECOMMENDATIONS SET FORTH IN THE SOILS REPORT, WHICH BY REFERENCE ARE A PART OF THE REQUIRED CONSTRUCTION DOCUMENTS AND IN CASE OF CONFLICT SHALL TAKE PRECEDENCE, UNLESS SPECIFICALLY NOTED OTHERWISE ON THE PLANS, OR IN THE SPECIFICATIONS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCY BETWEEN THE SOILS REPORT AND THESE PLANS AND SPECIFICATIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND REPLACING ALL SOFT, YIELDING OR UNSUITABLE MATERIALS AND REPLACING WITH SUITABLE MATERIALS AS SPECIFIED IN THE SOILS REPORT.
- ALL EXCAVATED OR FILLED AREAS SHALL BE COMPACTED TO 95% OF MODIFIED PROCTOR MAXIMUM DENSITY PER ASTM TEST D-1557, EXCEPT UNDER BUILDING FOUNDATIONS WHERE IT SHALL BE 98% MIN. OF MAXIMUM DENSITY. MOISTURE CONTENT AT TIME OF PLACEMENT SHALL NOT EXCEED 2% ABOVE NOR 3% BELOW OPTIMUM.
- CONTRACTOR SHALL SUBMIT A COMPACTION REPORT PREPARED BY A QUALIFIED REGISTERED SOILS ENGINEER, VERIFYING THAT ALL FILLED AREAS AND SUBGRADE AREAS WITH THE BUILDING PAD AREA AND AREAS TO BE PAVED, HAVE BEEN COMPACTED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND THE RECOMMENDATIONS SET FORTH IN THE SOILS REPORT.
- SITE CLEARING SHALL INCLUDE THE LOCATING AND REMOVAL OF ALL UNDERGROUND TANKS, PIPES, VALVES, ETC.
- ALL EXISTING VALVES, MANHOLES, ETC. SHALL BE RAISED OR LOWERED TO GRADE AS REQUIRED.

1.7 UTILITIES

- THE LOCATIONS OF UNDERGROUND FACILITIES SHOWN ON THESE PLANS ARE BASED ON FIELD SURVEYS AND LOCAL UTILITY COMPANY RECORDS. IT SHALL BE THE CONTRACTOR'S FULL RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY COMPANIES EITHER DIRECT OR THROUGH BLUE STAKE TO LOCATE THEIR FACILITIES PRIOR TO STARTING CONSTRUCTION.
- CONTRACTOR TO VERIFY BY POT-HOLING BOTH THE VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UTILITIES PRIOR TO INSTALLING ANY NEW LINES. NO ADDITIONAL COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR DAMAGE AND REPAIR TO THESE FACILITIES CAUSED BY HIS WORK FORCE.
- CONTRACTOR MUST START AT LOW END OF ALL NEW GRAVITY UTILITY LINES. MECHANICAL SUB-CONTRACTOR MUST BE PROVIDED CIVIL SITE DRAWINGS FOR COORDINATION AND TO CHECK THE FLOW FROM THE LOWEST POINT IN BUILDING TO THE FIELD VERIFIED CONNECTION AT THE EXISTING MAIN. NO EXTRA COMPENSATION IS TO BE PAID TO THE CONTRACTOR FOR WORK HAVING TO BE REDONE DUE TO FAILURE TO COMPLY WITH THESE REQUIREMENTS.
- CONTRACTOR IS TO VERIFY LOCATION, DEPTH, SIZE, TYPE, AND OUTSIDE DIAMETERS OF UTILITIES IN THE FIELD BY POT-HOLING A MINIMUM OF 300 FEET AHEAD, PIPELINE CONSTRUCTION TO AVOID CONFLICTS WITH DESIGNED PIPELINE GRADE AND ALIGNMENT. EXISTING UTILITY INFORMATION SHOWN ON PLANS OR OBTAINED FROM UTILITY COMPANIES OR BLUE STAKED MUST BE ASSUMED AS APPROXIMATE, REQUIRING FIELD VERIFICATION.
- CULINARY WATER AND FIRE SERVICE LINES TO BE CONSTRUCTED IN ACCORDANCE WITH LOCAL GOVERNING MUNICIPALITY STANDARDS AND SPECIFICATIONS.
- SANITARY SEWER MAINS AND LATERALS TO BE CONSTRUCTED IN ACCORDANCE WITH LOCAL GOVERNING MUNICIPALITY SEWER DISTRICT STANDARDS AND SPECIFICATIONS.
- STORM SEWER TO BE CONSTRUCTED IN ACCORDANCE WITH THE GOVERNING MUNICIPALITY STANDARDS AND SPECIFICATIONS.
- ALL STORM DRAIN AND IRRIGATION CONDUITS SHALL BE INSTALLED WITH WATER TIGHT JOINTS AND CONNECTIONS.
- ALL STORM DRAIN PIPE PENETRATIONS INTO BOXES SHALL BE CONSTRUCTED WITH WATER TIGHT SEALS ON THE OUTSIDE AND GROUTED SMOOTH WITH A NON-SHRINK GROUT ON THE INSIDE. CONDUITS SHALL BE CUT OFF FLUSH WITH THE INSIDE OF THE BOX.
- NO CHANGE IN THE DESIGN OF UTILITIES AS SHOWN WILL BE MADE BY THE CONTRACTOR WITHOUT THE WRITTEN APPROVAL OF THE GOVERNING MUNICIPALITY, OR OTHER AUTHORITY HAVING JURISDICTION OVER THAT UTILITY.
- ALL STORM DRAIN CONDUITS AND BOXES SHALL BE CLEAN AND FREE OF ROCKS, DIRT, AND CONSTRUCTION DEBRIS PRIOR TO FINAL INSPECTION.

GENERAL NOTES CONTINUED

1.8 SURVEY CONTROL

- CONTRACTOR MUST PROVIDE A REGISTERED LAND SURVEYOR OR PERSONS UNDER THE SUPERVISION OF A REGISTERED LAND SURVEYOR TO SET STAKES FOR THE ALIGNMENT AND GRADE OF EACH MAIN AND/OR FACILITY AS SHOWN ON THE PLANS. THE STAKES SHALL BE MARKED WITH THE HORIZONTAL LOCATION (STATION) AND VERTICAL LOCATION (GRADE) WITH CUTS AND/OR FILLS TO THE APPROVED GRADE OF THE MAIN AND/OR FACILITY AS SHOWN ON THE PLANS.
- THE CONTRACTOR SHALL PROTECT ALL STAKES AND MARKERS FOR VERIFICATION PURPOSES.
- CONTRACTOR WILL BE RESPONSIBLE FOR FURNISHING, MAINTAINING, OR RESTORING ALL MONUMENTS AND REFERENCE MARKS WITHIN THE PROJECT SITE.

1.9 AMERICAN DISABILITIES ACT

- PEDESTRIAN / ADA ROUTES SHALL MEET THE FOLLOWING SPECIFICATIONS:
 - *ROUTES SHALL HAVE A 2.00% (1:50) MAXIMUM CROSS SLOPE.
 - *ROUTES SHALL HAVE A 5.00% (1:20) MAXIMUM RUNNING SLOPE.
 - *RAMPS SHALL HAVE A 8.33% (1:12) MAXIMUM RUNNING SLOPE.
- ADA PARKING STALLS AND ADJACENT ROUTES SHALL HAVE A 2.00% MAXIMUM SURFACE SLOPE IN ANY DIRECTION.
- THE CONTRACTOR SHALL ADHERE TO THE ABOVE SPECIFICATIONS, IN THE EVENT OF A DISCREPANCY IN THE CONSTRUCTION DOCUMENTS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER PRIOR TO ANY CONSTRUCTION.

NEW	EXISTING	LEGEND	NEW	EXISTING
---	---	MONUMENT LINE		SECTION CORNER (FOUND)
---	---	CENTER LINE		SECTION CORNER (NOT FOUND)
---	---	SUBJECT PROPERTY LINE		STREET MONUMENT
---	---	ADJACENT PROPERTY LINE		BRASS CAP MONUMENT
---	---	EASEMENT LINE		POWER POLE
-X-	-X-	FENCE LINE		UTILITY POLE
-P-	-P-	POWER LINE		GUY ANCHOR
-T-	-T-	TELEPHONE LINE		POWER TRANSFORMER
-ATMS-	-ATMS-	ATMS CABLE		TRAFFIC SIGNAL CABINET
-FO-	-FO-	FIBER-OPTIC CABLE		LIGHT POLE
-G-	-G-	NATURAL GAS LINE		TELEPHONE RISER
-W-	-W-	WATER LINE		TELEPHONE MANHOLE
-SW-	-SW-	SECONDARY WATER LINE		TRAFFIC SIGNAL BOX
-S-	-S-	SANITARY SEWER LINE		WATER MANHOLE
-SD-	-SD-	STORM DRAIN LINE		WATER VALVE
-IRR-	-IRR-	IRRIGATION LINE		WATER METER
-RD-	-RD-	ROOF DRAIN LINE		FIRE HYDRANT
---	---	DITCH FLOWLINE		SANITARY SEWER MANHOLE
---	---	CONTOUR LINE		SANITARY SEWER CLEANOUT
==	==	CURB & GUTTER (STD)		STORM DRAIN MANHOLE
==	==	CURB & GUTTER (OUTFALL)		STORM DRAIN CURB INLET
		CONCRETE PAVEMENT		STORM DRAIN CATCH BASIN
		STD. DUTY ASPHALT		STORM DRAIN CLEANOUT
		HEAVY DUTY ASPHALT		STORM DRAIN COMBO BOX
				SPOT ELEVATION
				FLOW DIRECTION
				CONIFEROUS TREE
				DECIDUOUS TREE
				MAILBOX
				SIGN

ABBREVIATIONS

AC	ACRE	IE	INVERT ELEVATION	SLB&M	SALT LAKE BASE & MERIDIAN
B&C	BAR & CAP	IRR	IRRIGATION	S	SOUTH
BM	BENCHMARK	LF	LINEAR FEET	SS	SANITARY SEWER
C	CENTERLINE	MAX	MAXIMUM	SD	STORM DRAIN
CP	CONTROL POINT	MIN	MINIMUM	SEC	SECTION
CU FT	CUBIC FOOT	MON	MONUMENT	SPEC	SPEC
CU YD	CUBIC YARD	N	NORTH	SQ	SQUARE
CONC	CONCRETE	NTS	NOT TO SCALE	SQ FT	SQUARE FEET
CONST	CONSTRUCTION	OG	ORIGINAL GROUND	SQ YD	SQUARE YARD
CMP	CORRUGATED METAL PIPE	PC	POINT OF CURVATURE	STA	STATION
DIA or Ø	DIAMETER	PCC	POINT OF COMPOUND CURVE	STD	STANDARD
E	EAST	PI	POINT OF INTERSECTION	STM	STORM
EOA	EDGE OF ASPHALT	PRC	POINT OF REVERSE CURVE	T	TOWNSHIP
ELEV	ELEVATION	PT	POINT OF TANGENCY	TBC	TOP BACK OF CURB
EX	EXISTING	POC	POINT OF CONNECTION	TOA	TOP OF ASPHALT
FFE	FINISHED FLOOR ELEVATION	PWR	POWER	TOC	TOP OF CONCRETE
FG	FINISHED GRADE	R	PROPERTY LINE	TOFW	TOP OF FOUNDATION WALL
FT	FEET	PVC	POLYVINYL CHLORIDE PIPE	TOS	TOP OF SIDEWALK
HDPE	HDPE	R	RANGE	TOW	TOP OF WALL
HW	HIGH WATER	RCP	REINFORCED CONCRETE PIPE	TRANS	TRANSFORMER
HWY	HIGHWAY	REV	REVISION	U.N.O.	UNLESS NOTED OTHERWISE
		ROW	RIGHT-OF-WAY	WTR	WATER
				WV	WATER VALVE
				W	WEST



McNEIL ENGINEERING AND LAND SURVEYING
PROFESSIONAL CIVIL ENGINEERING & LAND SURVEYING SERVICES



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ATE CENTER AT UTAH STATE PRISON VOCATIONAL CLASSROOMS

DRAPER, UTAH

SHEET NAME:
GENERAL NOTES, LEGEND AND ABBREVIATIONS

REVISIONS
MARK DATE DESCRIPTION

ISSUE DATE: MARCH 2006
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SHEET NUMBER:

CG101

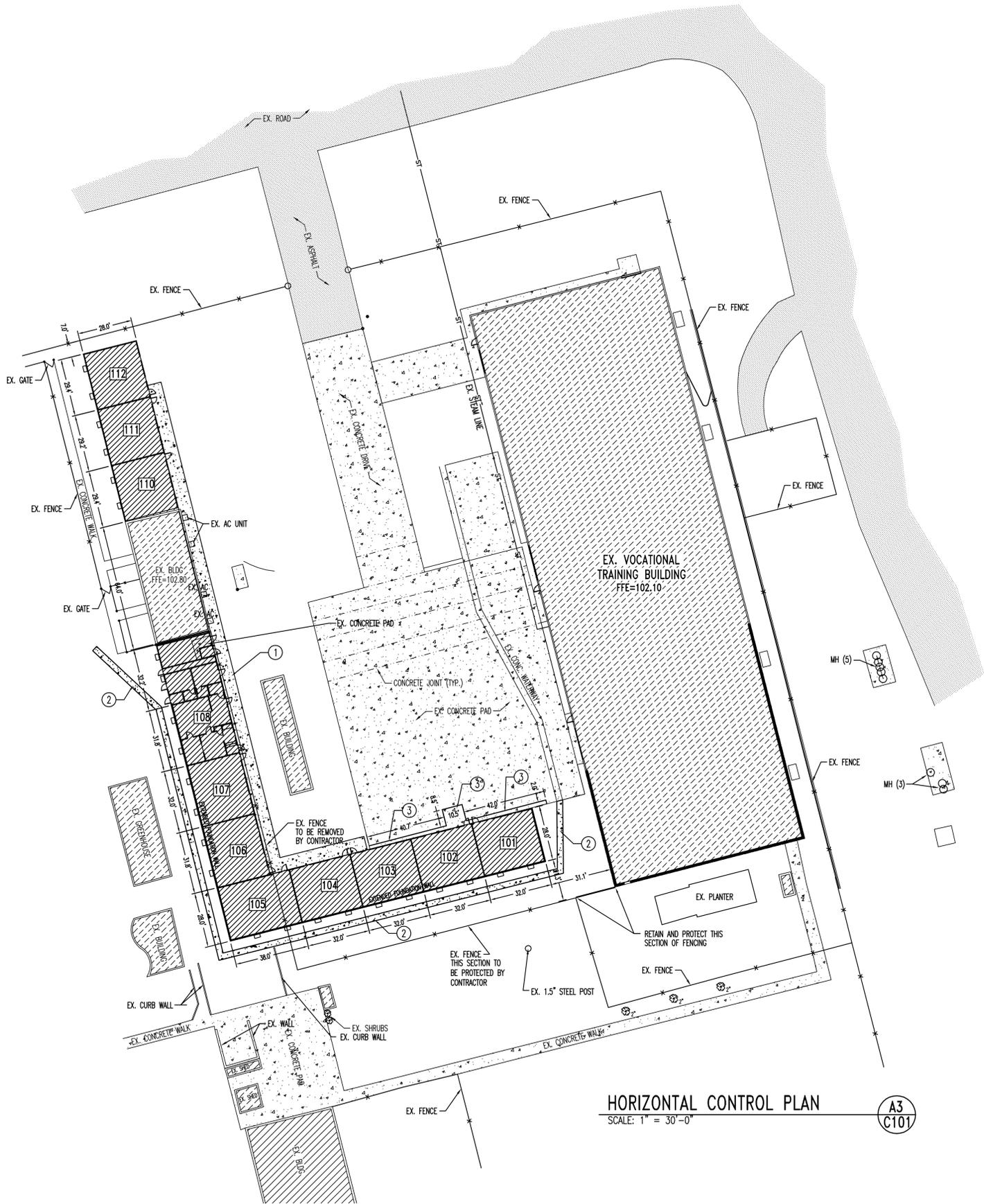
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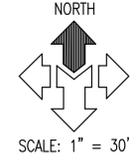
C

B

A



HORIZONTAL CONTROL PLAN
 SCALE: 1" = 30'-0"



GENERAL NOTES:
 ALL DIMENSIONS ARE TO THE FACE OF CURB, UNLESS OTHERWISE NOTED

SEE ARCHITECT'S SITE PLAN FOR ADDITIONAL DIMENSIONS AND INFORMATION

ALL WORK TO COMPLY WITH GOVERNING AGENCY'S STANDARDS AND SPECIFICATIONS

ALL IMPROVEMENTS MUST COMPLY WITH ADA STANDARDS AND RECOMMENDATIONS.

SCOPE OF WORK:
 PROVIDE, INSTALL AND/OR CONSTRUCT THE FOLLOWING PER THE SPECIFICATIONS GIVEN OR REFERENCED AND THE DETAILS NOTED AND AS SHOWN ON THE CONSTRUCTION DRAWINGS:

- 1 CONCRETE SIDEWALK PER DETAIL 'D1', SHEET C501.
- 2 CONCRETE WATERWAY WITH 5" GRANULAR BASE PER DETAIL 'C1', SHEET C501.
- 3 SAWCUT EXISTING CONCRETE PAVEMENT FOR FOUNDATION CONSTRUCTION AND SLUMP INSTALLATION AND PATCH MATCHING EXISTING THICKNESSES.

BASE BID:
 ALL SITE WORK INCLUDING, BUT NOT LIMITED TO: SITE IMPROVEMENTS AND INFRASTRUCTURE, ALL EXCAVATION FOR UNDERGROUND UTILITIES AND CONCRETE SLABS, FOOTINGS, FOUNDATIONS AND DAMP-PROOFING, ALL UNDER-SLAB PLUMBING AND ELECTRICAL ROUGH-INS. ALL OTHER CONSTRUCTION INDICATED ON PLANS N.I.C. AT THIS TIME

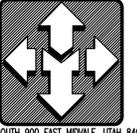
AJC PROJECT # 0502



ajc architects

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DRAPER, UTAH

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HORIZONTAL CONTROL PLAN

REVISIONS

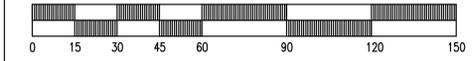
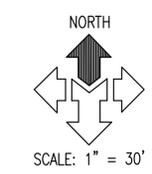
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C101

1 2 3 4 5



GRADING PLAN
SCALE: 1" = 30'-0"
A3
C201

GENERAL NOTES:

SITE GRADING SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND THE RECOMMENDATIONS SET FORTH IN THE SOILS REPORT THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND REPLACING ALL SOFT, YIELDING OR UNSUITABLE MATERIALS AND REPLACING WITH SUITABLE MATERIALS AS SPECIFIED IN THE SOILS REPORT. ALL EXCAVATED OR FILLED AREAS SHALL BE COMPACTED TO 95% OF MODIFIED PROCTOR MAXIMUM DENSITY PER ASTM TEST D-1557 EXCEPT UNDER BUILDING FOUNDATION WHERE IT SHALL BE 98% MIN. OF MAXIMUM DENSITY. MOISTURE CONTENT AT TIME OF PLACEMENT SHALL NOT EXCEED 2% ABOVE NOR 3% BELOW OPTIMUM. CONTRACTOR SHALL SUBMIT A COMPACTION REPORT PREPARED BY A QUALIFIED REGISTERED SOILS ENGINEER, VERIFYING THAT ALL FILLED AREAS AND SUBGRADE AREAS WITHIN THE BUILDING PAD AREA AND AREAS TO BE PAVED, HAVE BEEN COMPACTED IN ACCORDANCE WITH THESE PLANS & SPECS AND THE RECOMMENDATIONS SET FORTH IN THE SOILS REPORT.

THE CONTRACTOR IS TO USE BEST MANAGEMENT PRACTICES FOR PROVIDING EROSION CONTROL FOR CONSTRUCTION OF THIS PROJECT. SPECIFIC DETAILS SHOWN ON SHEET C2.02 SHALL BE USED IN COMBINATION WITH OTHER ACCEPTED LOCAL PRACTICES.

EXISTING UNDERGROUND UTILITIES AND IMPROVEMENTS ARE SHOWN IN THEIR APPROXIMATE LOCATIONS BASED UPON RECORD INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF PLANS. LOCATIONS MAY NOT HAVE BEEN VERIFIED IN THE FIELD AND NO GUARANTEE IS MADE AS TO ACCURACY OR COMPLETENESS OF THE INFORMATION SHOWN. IT SHALL BE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXISTENCE AND LOCATION OF THOSE UTILITIES SHOWN ON THESE PLANS OR INDICATED IN THE FIELD BY LOCATING SERVICES. ANY ADDITIONAL COSTS INCURRED AS A RESULT OF CONTRACTOR'S FAILURE TO VERIFY LOCATIONS OF EXISTING UTILITIES PRIOR TO BEGINNING OF CONSTRUCTION IN THEIR VICINITY SHALL BE BORNE BY THE CONTRACTOR AND ASSUMED INCLUDED IN THE CONTRACT.

SCOPE OF WORK:

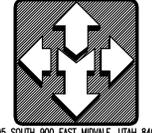
PROVIDE, INSTALL AND/OR CONSTRUCT THE FOLLOWING PER THE SPECIFICATIONS GIVEN OR REFERENCED AND THE DETAILS NOTED AND AS SHOWN ON THE CONSTRUCTION DRAWINGS:

- ① GRADE SITE TO ELEVATIONS AND CONTOURS SHOWN ON PLAN.
- ② CONCRETE PAVEMENT WITH UNTREATED BASE COURSE PER DETAIL 'D1', SHEET C501.
- ③ CONCRETE WATERWAY PER DETAIL 'C1', SHEET C501.
- ④ SUMP FOR AWNING DRAINAGE ONLY PER DETAIL 'C2', SHEET C5.01.

BASE BID:

ALL SITE WORK INCLUDING, BUT NOT LIMITED TO: SITE IMPROVEMENTS AND INFRASTRUCTURE, ALL EXCAVATION FOR UNDERGROUND UTILITIES AND CONCRETE SLABS, FOOTINGS, FOUNDATIONS AND DAMP-PROOFING, ALL UNDER-SLAB PLUMBING AND ELECTRICAL ROUGH-INS. ALL OTHER CONSTRUCTION INDICATED ON PLANS N.I.C AT THIS TIME

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DRAPER, UTAH

SHEET NAME:
GRADING PLAN

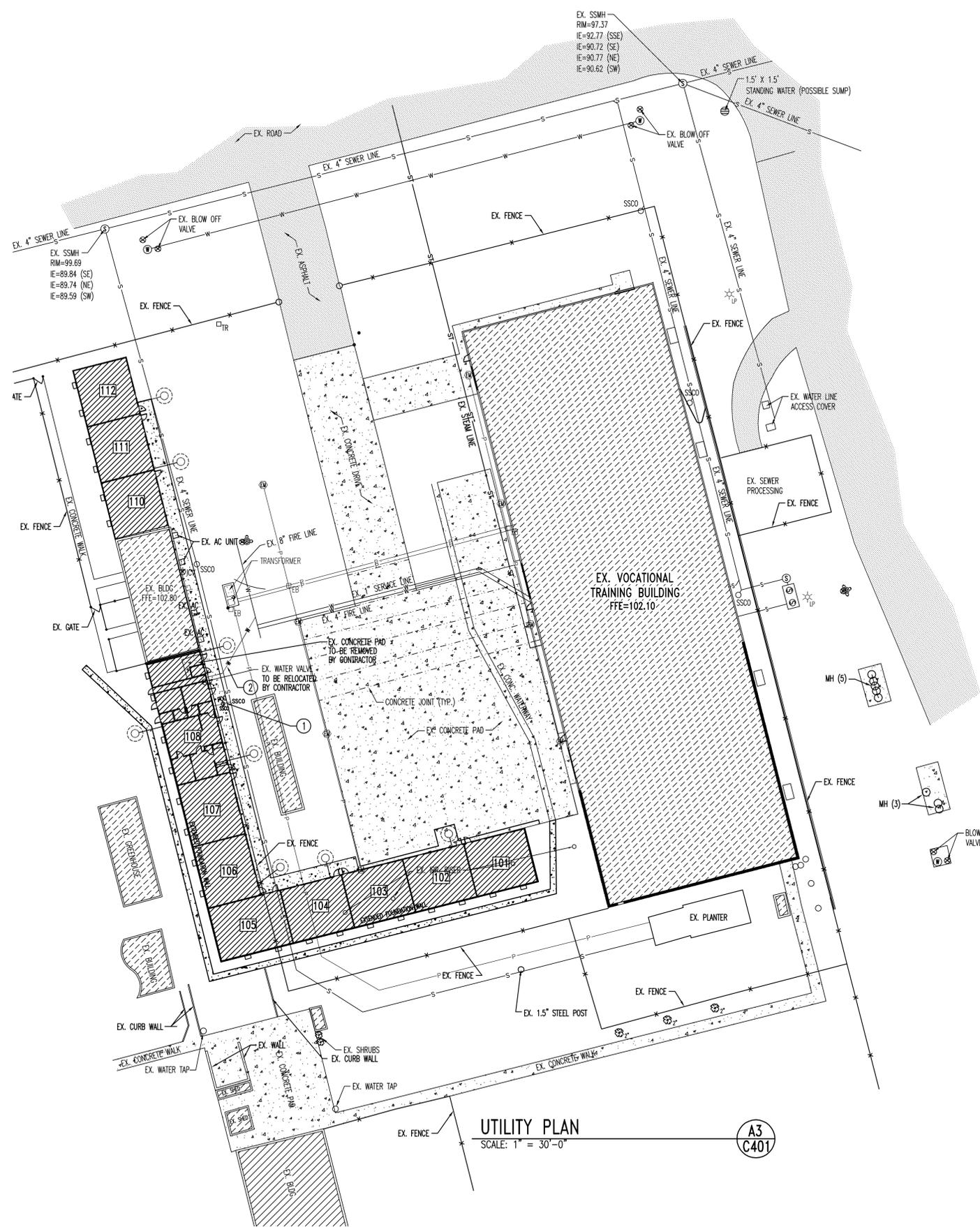
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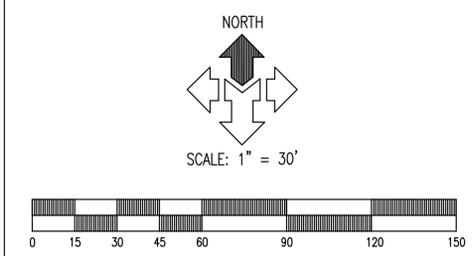
SHEET NUMBER:

C201



UTILITY PLAN
SCALE: 1" = 30'-0"

A3
C401



GENERAL NOTES:
CONTRACTOR IS TO COORDINATE ALL UTILITIES WITH MECHANICAL DRAWINGS.

ALL NEW WATER CONSTRUCTION TO BE DONE IN ACCORDANCE WITH LOCAL GOVERNING MUNICIPALITY STANDARDS & SPECIFICATIONS.

ALL NEW SANITARY SEWER CONSTRUCTION TO BE DONE IN ACCORDANCE WITH LOCAL GOVERNING MUNICIPALITY STANDARDS & SPECIFICATIONS.

CONTRACTOR IS TO COORDINATE LOCATIONS OF NEW TELEPHONE SERVICE TO BUILDING WITH QWEST. A PVC CONDUIT, PLYWOOD BACKBOARD, AND GROUND WIRE IS REQUIRED FOR SERVICE THROUGH PROPERTY, COORDINATE SIZES AND LOCATION WITH QWEST.

CONTRACTOR IS TO SUBMIT SITE PLAN TO QUESTAR GAS FOR DESIGN OF GAS LINE SERVICE TO BUILDING. CONTRACTOR TO COORDINATE WITH QUESTAR GAS FOR CONTRACTOR LIMITS OF WORK VERSES QUESTAR GAS LIMITS.

LOCATION OF ALL UNDERGROUND UTILITIES SHOWN ARE APPROXIMATE LOCATIONS. CONTRACTOR IS TO VERIFY CONNECTION POINTS WITH EXISTING UTILITIES. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE CAUSED TO EXISTING UTILITIES AND UTILITY STRUCTURE THAT ARE TO REMAIN.

UTILITY ALERT PHONE NUMBERS

WATER - DRAPER CITY ENGINEERING DEPT.	(801) 576-6385
WATER - JORDAN VALLEY WATER CONSERV. DIST.	(801) 565-4300
SEWER - SOUTH VALLEY SEWER DISTRICT	(801) 571-1166
NATURAL GAS - QUESTAR GAS	(801) 324-3970
ELECTRICAL POWER - UTAH POWER	(801) 364-1063
TELEPHONE - QWEST	(801) 964-8130

KEY NOTES:
PROVIDE, INSTALL AND/OR CONSTRUCT THE FOLLOWING PER THE SPECIFICATIONS GIVEN OR REFERENCED AND THE DETAILS NOTED AND AS SHOWN ON THE CONSTRUCTION DRAWINGS:

- ① 4" PVC SDR-35 SANITARY SEWER LATERAL, INCLUDING NEW CLEANOUTS AT 5- FEET FROM BUILDING. SEE DETAIL "C4", SHEET C501 FOR TRENCHING. SEE DETAIL "D4", SHEET C501 FOR CLEANOUTS.
- ② NEW 2 1/2" TYPE "K" COPPER WATER SERVICE LINE. CONNECT TO EXISTING 8" WATER LINE.
- ③ TELEPHONE LINE. CONTRACTOR TO PROVIDE TRENCHING 30" DEEP X 24" WIDE FOR QWEST AND THEN BACKFILL AS REQUIRED SEE DETAIL "D5", SHEET C501.

BASE BID:
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SHEET NAME:
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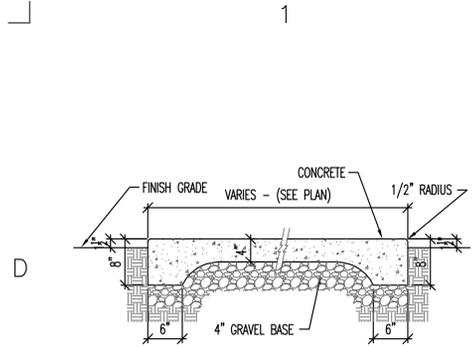
REVISIONS

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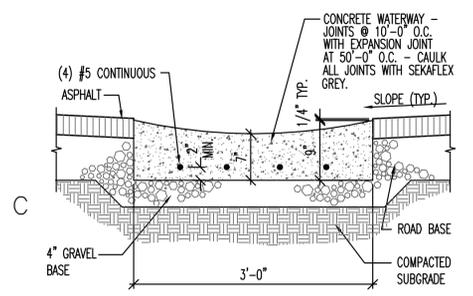
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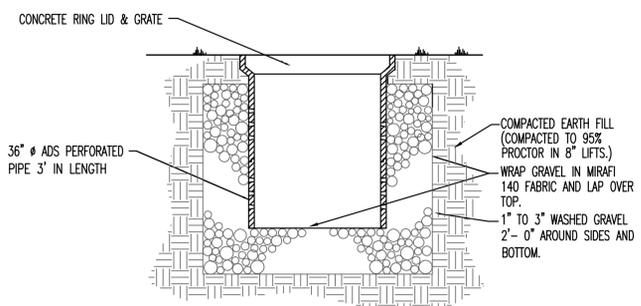


STD. SIDEWALK
N.T.S. (D1)

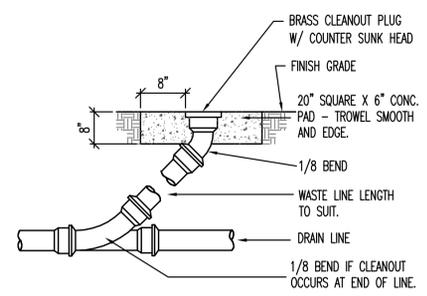


NOTE:
ASPHALT TO BE 1/4" HIGHER
THAN LIP OF CONCRETE

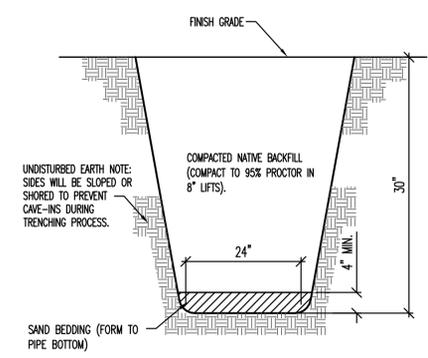
CONCRETE WATERWAY
SCALE: 1" = 1'-0" (C1)



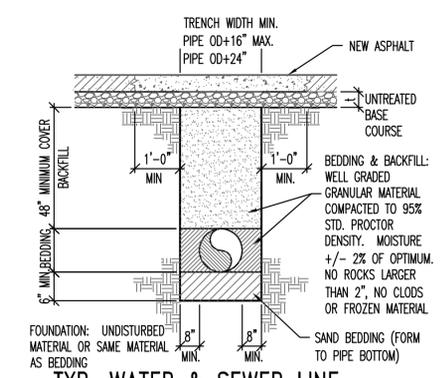
SUMP DETAIL
SCALE: N.T.S. (C2)



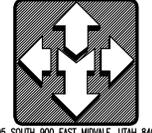
CLEANOUT DETAIL
N.T.S. (D4)



TYPICAL UTILITY TRENCH
N.T.S. (D5)



**TYP. WATER & SEWER LINE
TRENCH SECTION**
N.T.S. (C4)





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GENERAL STRUCTURAL NOTES

GENERAL

- Specific notes and details in the drawings shall govern over the structural notes and typical details.
- Typical details and sections shall apply where specific details are not shown.
- The contractor shall verify all site conditions and dimensions. If actual conditions differ from those shown in the contract drawings, the contractor shall immediately notify the architect/engineer before proceeding with the fabrication or construction of any affected elements.
- Only an authorized representative of Dunn Associates Inc may make changes to these contract drawings. Dunn Associates Inc. shall not be held responsible or liable for any claims arising directly or indirectly from changes made without written authorization by an authorized representative of Dunn Associates Inc.
- Omissions or conflicts between the contract drawings and/or specifications shall be brought to the attention of the architect/engineer before proceeding with any work involved. In case of conflict, follow the most stringent requirement as directed by the architect/engineer at no additional cost to the owner.
- The contractor shall submit a written request to the architect/engineer before proceeding with any changes, substitutions or modifications. Any work done by the contractor before receiving written approval will be at the contractor's risk.
- The contractor shall coordinate with all trades any items that are to be integrated into the structural system such as openings, penetrations, mechanical and electrical equipment, etc. Sizes and locations of mechanical and other equipment that differs from those shown on the contract drawings shall be reported to the architect/engineer.
- The contractor shall be responsible for means, methods, techniques, sequences, and procedures in order to comply with the contract drawings and specifications. The contractor shall provide adequate shoring and bracing as required for the chosen method of erection. Shoring and bracing shall remain in place until final connections for the permanent members are completed. The building shall not be considered stable until all connections are completed. Walls shall not be considered self-supporting and shall be braced until the floor/roof system is completed.
- Site observations by Dunn Associate's field representative shall not be construed as approval of construction, the procedures nor special inspection.
- Detailing and shop drawing production for structural elements will require information (including dimensions) contained in the architectural, structural and/or other consultants' drawings. The structural drawings shall be used in conjunction with the architectural and other consultants' drawings. Most dimensions and most non-structural elements such as elevations, depressions, slopes, mechanical housekeeping pads, etc. are not shown in the structural drawings. See the Architectural Drawings for dimensions, doors, windows, non-bearing interior and exterior walls, elevations, slopes, stairs, drains, recesses, depressions, railings, waterproofing, finishes, chamfers, kerfs, etc.
- Review of shop drawing submittals by Dunn Associates Inc's is for general compliance only and is not intended for approval. The shop drawing review shall not relieve the contractor from the responsibility of completing the project according to the contract documents.
- Shop drawings made from reproductions of the structural drawings will be rejected unless the contractor signs a release agreement prior to the shop drawings being reviewed. The contractor may also obtain electronic files of the plan sheets after signing a release agreement. Electronic files of the detail sheets and schedule sheets will not be made available.

BASIS OF DESIGN

- Governing Building Code: International Building Code 2003
- Roof Snow Load:
 - a. Ground Snow Load: P_g = 43 psf
 - b. Flat Roof Snow Load: P_f = 30 psf
 - c. Snow Exposure Factor: C_e = 1.0
 - d. Snow Load Importance Factor: I_s = 1.0
 - e. Thermal Factor: C_t = 1.0
- Wind Load:
 - a. Basic Wind Speed (3 Second Gust): 90 mph
 - b. Wind Importance Factor: 1.0
 - c. Wind Exposure: C
 - d. Internal Pressure Coefficient: ± 0.18
- Earthquake Design Data:
 - a. Seismic Use Group: I
 - b. Seismic Importance Factor: 1.0
 - c. Spectral Response Coefficients:
 - i. Short Period Acceleration: S_{DS} = 1.00
 - ii. 1-Second Acceleration: S_{D1} = 0.60
 - d. Site Class (Soil Profile): D
 - e. Basic Seismic Force Resisting System: Wall Shear Walls
 - f. Response Modification Coefficient: R = 6
 - g. System Over-Strength Factor: Ω_b = 4
 - h. Deflection Amplification Factor: C_d = 4
 - i. Effective Seismic Weight of the Structure: W
 - j. Design Base Shear: V = 0.167 W (Strength Design)
 - k. Analysis Procedure: Simplified Equivalent Lateral Force
 - l. Building Seismic Design Category: D

FOUNDATION

- Soils Investigation Report: None
- Soil bearing pressure: 1500 psf - Assumed for design.
- Frost Protection: 30 inches minimum.
- Clear excavations of debris and loose soil prior to placing footings. All footings shall be on undisturbed natural sub-grade or engineered compacted fill as noted in these drawings.

EARTHWORK

- Clearing: Remove all existing structures and associated foundations, slabs, fencing, asphalt, concrete, and incidental structures as necessary for project completion. The building area shall be stripped of all vegetation, topsoil and debris. Following stripping, all fill soils and any remaining loose natural soils shall be excavated to expose competent natural soils.
- Contractor shall employ a geotechnical engineer to verify the allowable soil bearing pressure to be 1,500 psf. The contractor is to follow the recommendations of the soils engineer.
- Proof roll the entire building pad area with normal compaction equipment to check for the presence of unsuitable fills, soft spots, or other undesirable materials or conditions. Remove sub-grade materials that are unsuitable and replace with compacted structural fill or 2,000 psi lean concrete.
- Compacted structural fill: All fill material shall be a well-graded granular material with a maximum size less than 3 inches and with not more than 15 percent passing a No. 200 sieve. It shall be compacted to at least 95 percent of the maximum laboratory density as determined by ASTM D 1557 for fill beneath footings and 90 percent for fill beneath floor slabs. All fill shall be tested. Compacted structural fill shall be placed in lifts not exceeding 8 inches in uncompacted thickness.
- Floor slabs thickness shall be required by the plans and underlain by a granular layer at least 4 inches thick. The granular layer shall have a maximum size less than 1 inch with not more than 5 percent passing a #200 sieve and shall be compacted to at least 90 percent of the maximum laboratory density as determined by ASTM D 1557.

CONCRETE

- Materials, unless noted otherwise:
 - a. Normal Weight Aggregates: ASTM C 33
 - b. Fly Ash, Class F Pozzolan: ASTM C618
 - c. Reinforcing Steel: ASTM 615 Grade 60 (F_y = 60 ksi)
 - i. Anchor Bolts:
 - All Columns UNO: ASTM F1554 Gr. 36 (equiv to A36 or A307) with ASTM A563 heavy hex nuts with hardened washers Grade A.
 - j. Admixtures:
 - Air-entraining admixtures shall comply with ASTM C 260 (when used).
 - Calcium chloride shall not be added to the concrete mix. Unreinforced concrete slabs on grade may have calcium chloride not exceeding one percent.
 - k. Type III cement complying with ASTM C-150 shall be used for all concrete.
 - l. The water/cement ratio for concrete 4000 psi and greater shall not exceed 0.50 (grout mixes are excluded).
 - m. The slump of all concrete shall be limited to 4" unless plasticizers are used.
 - n. Provide air entraining as recommended by ACI 318.
 - o. Air entrainment shall be adjusted for the use of admixtures and fly ash.
 - p. Fly Ash shall be a maximum of 20% of the cementitious material.
 - q. No aluminum conduit or product containing aluminum or any other material injurious to concrete shall be embedded in concrete.
- Compressive strengths of concrete at 28 days shall be as follows:
 - a. Footings: 3,000 psi
 - b. Interior Slabs on Grade: 3,500 psi
 - c. Foundation Walls: 4,000 psi
 - d. All Site Cast Concrete: 4,000 psi
- The contractor shall be responsible for the design, detailing, care, placement and removal of all formwork and shores:
 - a. Supporting forms and shoring shall not be removed until structural members have acquired sufficient strength to safely support their own weight and any construction load to which they may be subjected. In no case, however, shall forms and shoring be removed in less than 24 hours after concrete placement.
- Reinforcement shall have the following concrete cover:

Cast-in-place Concrete:	Clear Cover
a. Cast against and permanently exposed to earth or weather:	3"
b. Formed concrete exposed to earth or weather:	2"
#8 thru #18 bars:	2"
#5 and smaller bars:	1-1/2"
- Construction Joints and Control Joints:
 - a. Provide a beveled 2 x 4 x intermediate keyway that shall be installed in all horizontal and vertical construction joints including between top of footing and foundation walls. In addition, all joints shall be intentionally roughened to a full amplitude of approximately 1/4 inch.
 - b. Control joints shall be installed in slabs on as noted on plans. Control joints shall be completed within 12 hours of concrete placement. Control joints may be installed by:
 - i. Saw cut a depth of 1/4 the thickness of the slab
 - ii. Tooled joints a depth of 1/4 the thickness of the slab
 - c. Construction joints shall not exceed a distance of 125'-0" o.c. in any direction.
- Construction:
 - a. Use chairs or other support devices recommended by the CRSI to support bar and tie reinforcement bars and WWF prior to placing concrete. WWF shall be continuously supported at 36" o.c. maximum. Reinforcing steel for slabs on grade shall be adequately supported on precast concrete units. Lifting the reinforcing off the grade during placement of concrete is not permitted.
 - b. Contractor shall coordinate placement of all openings, curbs, dowels, sleeves, conduits, bolts, inserts and other embedded items prior to concrete placement.
 - c. All embeds and dowels shall be securely tied to formwork or to adjacent reinforcing prior to the placement of concrete.
 - d. No pipes, ducts, sleeves, etc. shall be placed in structural concrete unless specifically detailed or approved by the structural engineer. Penetrations through walls when approved shall be built into the wall prior to concrete placement. Penetrations will not be allowed in footings or grade beams unless detailed. Piping shall be routed around these elements and footings stepped to avoid piping.
 - e. Reinforcing Bars shall not be welded.
- Detailing:
 - a. Lap lengths shall be as follows:
 - i. #3 = 15" #6 = 30"
 - ii. #4 = 20" #7 = 35"
 - iii. #5 = 25" #8 = 40"
 - b. At joints provide reinforcing dowels to match the member reinforcing, unless noted otherwise.
 - c. At all discontinuous control or construction slab on grade joints, provide 2 - #4 x 48 inches.
 - d. Provide corner bars at intersecting wall corners using the same bar size and spacing as the horizontal wall reinforcing.

EPOXY

- Epoxy shall be "HIT RE 500" by Hill Corporation, "Anchor-It" by Adhesive Technology Corporation, "Epocon Injection System" by Ramset/Redhead, "Power-Fast" by Powers Rawl, or approved equal.
- All drilled holes shall be 1/8 inch larger than the bar or anchor bolt being installed.
- After drilling the proper size hole, clean the walls and bottom of the hole of all dust and debris using a nylon brush in conjunction with oil free compressed air. The hole shall be free of dust, debris and standing water.
- Follow all manufacturers' recommendations for epoxy installation.

WOOD

- Materials:
 - a. Dimension Lumber and Timbers (Sawn Lumber)
 - i. All dimensioned lumber shall comply with USDOC PS20.
 - ii. Visually graded dimension lumber shall be Douglas Fir-Larch #2 or better.
 - iii. Visually graded timbers (5" x 5" and larger) shall be Douglas Fir-Larch #1 or better.
 - iv. Machine stress rated (MSR) lumber shall be 1600F-1.6E or better.
 - v. Approved end jointed lumber may be used interchangeably with solid sawn members of the same species and grade.
 - b. Laminated Veneer Lumber (LVL) & Laminated Strand Lumber (LSL, Rim Board)
 - i. All rim boards shall be a minimum of 1 3/4" thick and shall be Versa-Strand Rim manufactured by Boise Cascade
 - ii. All LVL shall be a minimum of 1 3/4" thick and shall be Versa-Lam manufactured by Boise Cascade
 - iii. Handle, store and install all LVL per the manufacturer's guidelines.
 - iv. Connect multiple members together per the manufacturer's guidelines.
 - v. LVL, LSL and Rim Board of equal design properties as determined by ASTM D5456 may be substituted with written approval from Dunn Associates
- Wood Structural Panel Sheathing:
 - i. Wood structural panels shall conform to the requirements for its type in USDOC PS1 or USDOC PS2. The panels must be identified by the trademarks of the approving testing and inspection agency.
 - ii. Wood sheathing shall be APA rated sheathing Exposure 1 unless noted otherwise
 - iii. Wood sheathing shall have the following minimum properties, unless noted otherwise:

Roof	5/8", 19/32" thick	32/16 span rating
Walls	1/2", 15/32", 7/16" thick	24/0 span rating
- Nails:
 - i. All Nails shall conform with the tolerances specified in ASTM F1667, "Standard Specification or Driven Fasteners: Nails, Spikes and Staples."
 - ii. All nails shall be gun nails with the following properties:

Nail Size	Shank Diameter	Min. Penetration into Support Member
8d	0.113"	1.50"
10d	0.131"	1.63"
12d	0.131"	1.63"
16d	0.131"	1.75"
 - iii. Nails with properties less than those listed above shall not be used without prior written approval from Dunn Associates.
 - iv. Nails with "T", Brad, finish or casing heads are not permitted. Nails with Round (full), Offset, Oval, Clipped or Notched heads are acceptable.
 - v. Deformed shank nails shall have either a helical (screw) or an annular (ring) shank.
- Bolts:
 - ii. Anchor Bolts: ASTM F1554 Gr. 36 (or A307 of A36)
 - iii. Connection Bolts: ASTM A307 or A36
- Connection Hardware:
 - a. All connection hardware shown shall be supplied by Simpson Strong-Tie Incorporated or USP structural connectors.
 - b. Install all hardware per the manufacturer's guidelines.
 - c. Connection hardware of equal design properties by other manufacturer's may be substituted with written approval from Dunn Associates.
- All wood in contact with concrete, masonry or soil shall be pressure treated or be redwood.
- General framing and carpentry shall be connected as per "THE MINIMUM NAILING SCHEDULE" unless noted otherwise.
- Provide solid shaped blocking at least 2 in. (nominal) thick and full depth of joist at ends and at each support of joist. Provide approved bridging at an 8'-0" o.c. maximum between joist end supports. Solid blocking between joists shall be nailed to the wood plate at the top of the wall with one Simpson "A35" framing anchor per each piece of blocking. Fill all holes in the framing anchors with 8-d x 1-1/2" nails (12 nails per A35). Unless shown otherwise on the drawings.
- Built-up beams of 2X-member 12 in. or less in depth shall be spiked together with not less than 16-d spikes at twelve-inch (12 in.) centers, staggered. If the depth of beam is more than twelve inches (12 in.), the members shall be connected together with 1/2" O bolts @ 24 in. o.c. staggered. Bolts shall be placed 1/4 the depth of the member from the top and bottom of the member.
- All bearing and shear walls shall have a minimum of two top plates. Splices in top plates shall be staggered a minimum of four feet from the nearest splice in adjoining top plate.

PRE-FABRICATED WOOD TRUSSES

- The Pre-fabricated metal plate wood trusses shall be designed, signed, and sealed by a Professional Engineer registered in the same state as the project location. They shall be designed to support the concentrated and other distributed loads as shown on the framing plans in addition to the following uniform loads:
 - a. Dead Load (Top Chord) = 15 psf
 - b. Dead Load (Bottom Chord) = 10 psf
 - c. Snow Load (Top Chord) = 30 psf
 - d. Live Load (Bottom Chord) = 10 psf (Does not occur concurrently with top chord live load)
 - 50 psf Max Total Load

- Correlate the design with all mechanical equipment, fire sprinkling systems and hanging walls supported by the trusses. Provide extra trusses where required. Design all wood trusses and bearing attachments for wind uplift. Assume a dead load of 8 psf to resist uplift.
- No stress increase is allowed for snow loads.
 - All truss-to-truss connections shall be designed and provided by the truss manufacturer.
 - Design, handling, erection, and permanent bracing of metal plate connected wood trusses shall be in accordance with ANSI/TPI-1, National Design Standard for Metal Plated Connected Wood Truss Construction.
 - Steel Connector Plates: All steel gusset plates shall be galvanized and shall be approved by the "Research Committee for the International Conference of Building Officials". Submit a copy of the ICBO Report for the connector plate used. Values established by this committee must be indicated on the shop drawings.
 - a. The minimum size for any connector shall be 8 square inches.
 - b. All steel gusset plates shall be located on the joint as the stresses require and shall provide a minimum bite of 2.5" length on all tension members.
 - c. Plates shall be pressed or rolled into member to obtain full penetration without crushing the outer surfaces of wood.
 - d. All steel plate dimensions shall be increased by 10% above that required by analysis. Stress increases for steel connector plate values for duration of load are not allowed.
 - No wane, knots, skips, or other defects shall occur in the plated contact area or scarfed area of web members. Plates shall be centered with one required each side of wood truss.
 - The trusses shall be handled and stored in a manner to prevent moisture from being absorbed by the wood.
 - Requirements for truss stability and erection shall comply with the Truss Plate Institute publications entitled "Commentary and Recommendations for Bracing Wood Trusses" and "Commentary and Recommendations for Handling and Erecting Wood Trusses." The contractor shall have copies of these publications on site and shall be familiar with their contents.
 - Shop Drawings: Complete calculations and shop drawings indicating all member forces, stresses, duration factors, lumber grades, dimensions, truss to truss connections, steel truss plate sizes and locations shall be submitted and reviewed by the engineer before fabrication. Each connector shall be dimensioned on the shop drawings as to its exact location at the joint.

QUALITY ASSURANCE PLAN/ SPECIAL INSPECTION REQUIREMENTS

- Seismic force resisting systems: Building system is comprised of the following structural components:
 - a. Concrete foundation walls
 - b. Wood shear wall
- Special inspection, as required by section 1704 of the IBC, shall be provided by an independent agency employed by the owner unless waived by the building official. The contractor shall coordinate and cooperate with the required inspections. Special inspection is required for the following:
 - a. Earthwork:
 - i. Excavations, grading and compacted structural fill.
 - b. Concrete:
 - i. Continuous inspection of concrete placement is not required.
 - ii. Continuous inspection of concrete placement for concrete slab on grade is not required.
 - c. Reinforcing Steel, Bolts and Embeds Placed in Concrete:
 - i. Placement of reinforcing steel is not required.
 - ii. Bolts and embeds installed in concrete is not required.
 - d. Approved Fabricators (must submit certificate of compliance):
 - i. All offsite fabrication such as structural steel, wood glulams, precast concrete, etc.
 - ii. Placement and attachment of wall sheathing to studs is required.
 - iii. Placement and attachment of roof sheathing to structure is required.
 - iii. Verify APA stamp.
- Structural Observations:
 - a. Contractor shall notify the engineer at least 2 days prior to the following stages of construction so the engineer may have the opportunity to review the work:
 - i. Initial placement of any concrete including footings, slab on grade.
 - ii. Completion of structural wall sheathing and roof sheathing attachments
 - iii. Initial finish work
 - b. Observation reports shall be sent to architect and contractor.

LEGEND OF MARKS AND ABBREVIATIONS

AB	ANCHOR BOLT(S)	INT	INTERIOR
ABV	ABOVE	JT	JOINT
ALT	ALTERNATE	JST	JOIST
APPROX	APPROXIMATE		
ARCH	ARCHITECT(URAL)		
BF-x	BRACED FRAME MARK	K	KIPS(S) = 1000 POUNDS
BLDG	BUILDING	KLf	KIPS PER LINEAL FOOT
BLW	BELOW	KSF	KIPS PER SQUARE FOOT
BM	BEAM		
BN	BOUNDARY NAIL	LBS	POUNDS
BOT	BOTTOM	LF	LINEAL FOOT
BRG	BEARING	LSL	LAMINATED STRAND LUMBER
BTWN	BETWEEN	LVL	LAMINATED VENEER LUMBER
		MAS	MASONRY
CB-x	CONCRETE BEAM MARK	MAX	MAXIMUM
CC	CENTER TO CENTER	MCJ	MASONRY CONTROL JOINT
CC-x	CONCRETE COLUMN MARK	MC-x	MASONRY COLUMN MARK
CDP-x	CONC DRILLED PIER MARK	MECH	MECHANICAL
CFW-x	CONC FOUNDATION WALL	MFR	MANUFACTURER
CGB-x	CONC GRADE BEAM MARK	MF-x	MOMENT FRAME MARK
CJ	CONST OR CONTROL JOINT	MIN	MINIMUM
CJ-x	CONCRETE JOIST MARK	MISC	MISCELLANEOUS
CL-x	CONCRETE LINTEL MARK	ML-x	MASONRY LINTEL MARK
CMJ	CONCRETE MASONRY UNIT	MP-x	MASONRY PIER MARK
COL	COLUMN	MW-x	MASONRY WALL MARK
CONC	CONCRETE		
CONST	CONSTRUCTION	NIC	NOT IN CONTACT
CONT	CONTINUOUS	NTS	NOT TO SCALE
CONTR	CONTRACTOR		
CP-x	CONCRETE PIER MARK	O.C.	ON CENTER
CRW-1	CONCRETE RETAINING WALL	O.F.	OUTSIDE FACE
CS	COL STRAP	OPNG	OPENING
CSW-x	CONCRETE SHEAR WALL MARK	OPP	OPPOSITE
CTR	CENTER	OSB	ORIENTED STRAND BOARD
CW-x	CONCRETE WALL MARK	PCF	POUNDS PER CUBIC FOOT
		PHD	PRE-DEFLECTED HOLDOWN
DB	DECK BEARING	PFT	PREFABRICATED TRUSS
DBA	DEFORMED BAR ANCHOR	PL	PLATE
DBE	DECK BEARING ELEVATION	PLF	POUNDS PER LINEAL FOOT
DBL	DOUBLE	PNL	PANEL
DET	DETAIL	PSF	POUNDS PER SQUARE FOOT
DIA	DIAMETER	PSI	POUNDS PER SQUARE INCH
DIM	DIMENSION	PT	POINT
DN	DOWN		
DWG	DRAWING	REINF	REINFORCING
DWL	DOWEL	REQD	REQUIRED
		R.D.	ROOF DRAIN
EA	EACH	SAD	SEE ARCHITECTURAL DRAWINGS
E.F.	EACH FACE	SBP-x	STEEL BASE PLATE MARK
E.J.	EXPANSION JOINT	SCW	SEISMIC CRITICAL WELD
ELEC	ELECTRICAL	SC-x	STEEL COLUMN MARK
ELEV	ELEVATION	SCP-x	STEEL CAP PLATE MARK
EN	EDGE NAIL	SHT	SHEET
EQUIP	EQUIPMENT	SI	SPECIAL INSPECTION
EQ	EQUAL	SIM	SIMILAR
E.W.	EACH WAY	SOG	SLAB ON GRADE
EXIST	EXISTING	SQ	SQUARE
EXP	EXPANSION	STAG	STAGGERED
EXT	EXTERIOR	STD	STANDARD
		STIFF	STIFFENER
FC-x	FOOTING CONTINUOUS MARK	STL	STEEL
F.D.	FLOOR DRAIN	STR	STRUCTURAL
FDN	FOUNDATION		
F.F.	FINISH FLOOR		

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ATE CENTER AT UTAH STATE PRISON VOCATIONAL CLASSROOMS

DRAPER, UTAH

SHEET NAME:

GENERAL STRUCTURAL NOTES

REVISIONS

MARK	DATE	DESCRIPTION
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ISSUE DATA

ISSUE DATE: 4/13/06
ISSUE TYPE:
DRAWN BY: Ronnie M.
CHECKED BY: Chris Barker
PROJECT NUMBER: 26069

June 12, 2006

NOTE:
THESE STRUCTURAL DRAWINGS ARE BASED ON
ARCHITECTURAL DRAWINGS DATED 03/15/06

DIMENSIONS AND ELEVATIONS, AS THEY RELATE TO THE BUILDING IN GENERAL, I.E. GRID TO GRID DIMENSIONS OR DECK BEARING ELEVATIONS, ARE SUPPLIED BY THE ARCHITECT. THEY ARE PROVIDED ON THE STRUCTURAL PLANS AND DETAILS FOR THE CONVENIENCE OF THE CONTRACTOR. VERIFY DIMENSIONS AND ELEVATIONS WITH ARCHITECTURAL DRAWINGS.

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SHEET NAME:

**FOOTING AND
FOUNDATION
PLANS**

REVISIONS

MARK DATE DESCRIPTION

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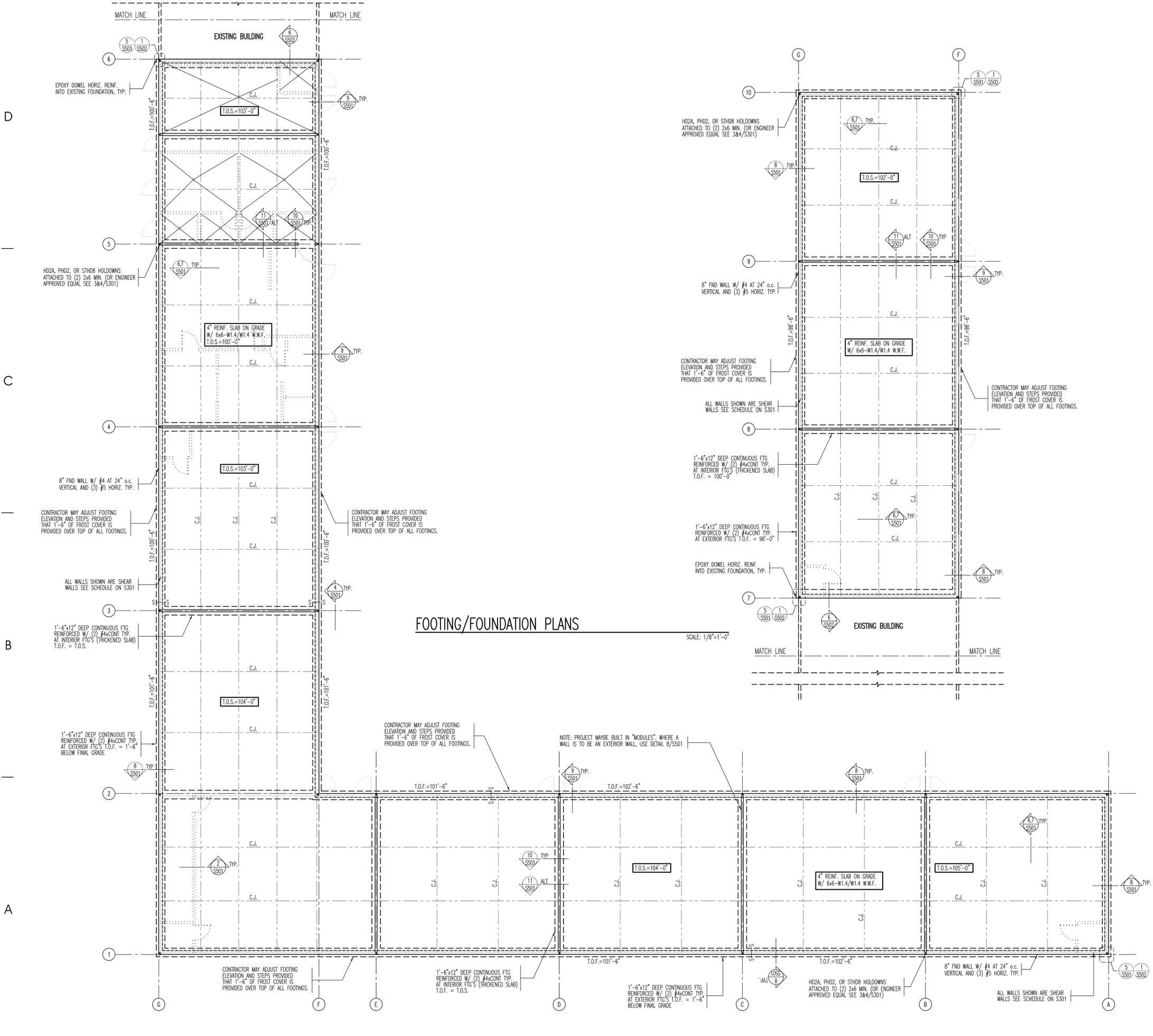
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CONTRACTOR. VERIFY DIMENSIONS AND ELEVATIONS
WITH ARCHITECTURAL DRAWINGS.

FOOTING AND FOUNDATION PLAN NOTES:

- COORDINATE LOCATION OF DEPRESSED SLABS, SLOPED SLABS AND FLOOR DRAINS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
- SEE ARCHITECTURAL DRAWINGS AND CIVIL DRAWINGS FOR EXTERIOR CONCRETE WORK AT DOORS, SIDEWALKS, ETC.
- SEE FOOTING AND FOUNDATION DETAILS ON SHEET (S501) FOR BURIED PIPES RUNNING PARALLEL AND PERPENDICULAR TO FOOTINGS.
- SEE FOOTING AND FOUNDATION DETAILS ON SHEET (S501) FOR TYPICAL CONSTRUCTION AND CONTROL JOINTS IN FLOOR SLAB.

MARKS & SYMBOLS LEGEND

- SECTION MARK SHEET NUMBER
- INDICATES NON-BEARING WALLS. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION AND ADDITIONAL INFORMATION.
- INDICATES SHEARWALL LOCATION. DASHED LINE INDICATES SIDE OF SHEATHING.
- INDICATES DEPRESSED SLAB, SEE ARCHITECTURAL PLANS FOR EXACT LOCATION AND ELEVATION.
- SW-x INDICATES WOOD SHEARWALL, SEE SCHEDULE ON (S301) FOR MORE INFORMATION.
- S-S INDICATES FOOTING STEP, SEE 4/S501



FOOTING/FOUNDATION PLANS

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

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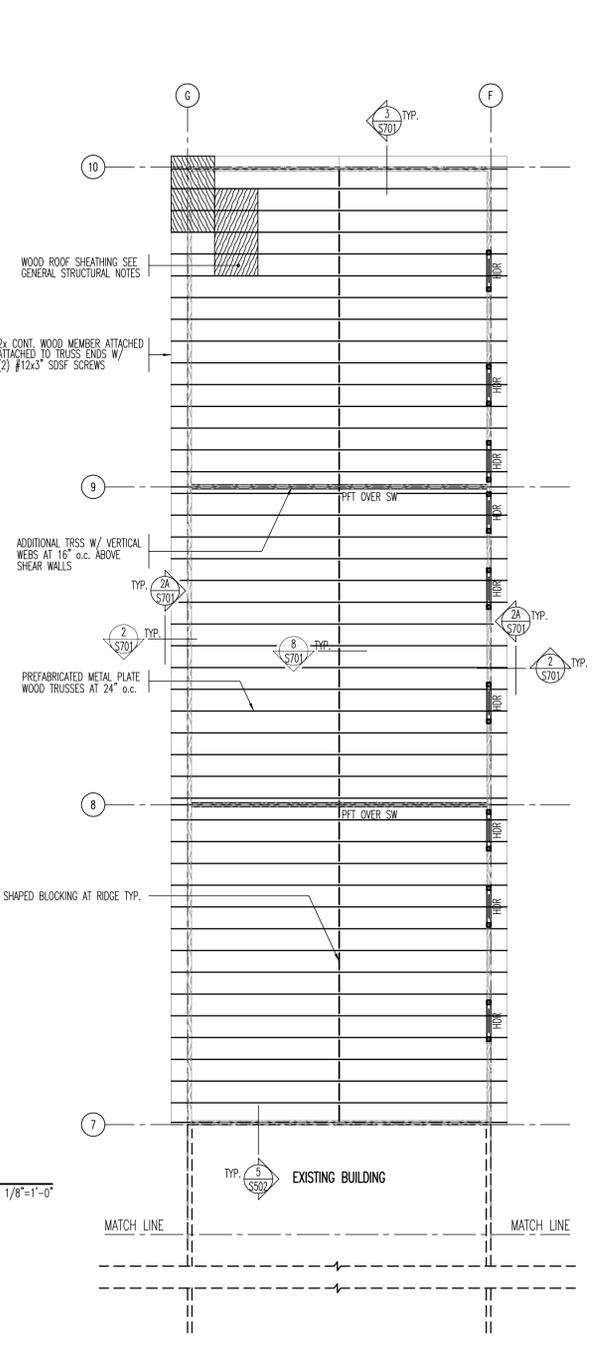
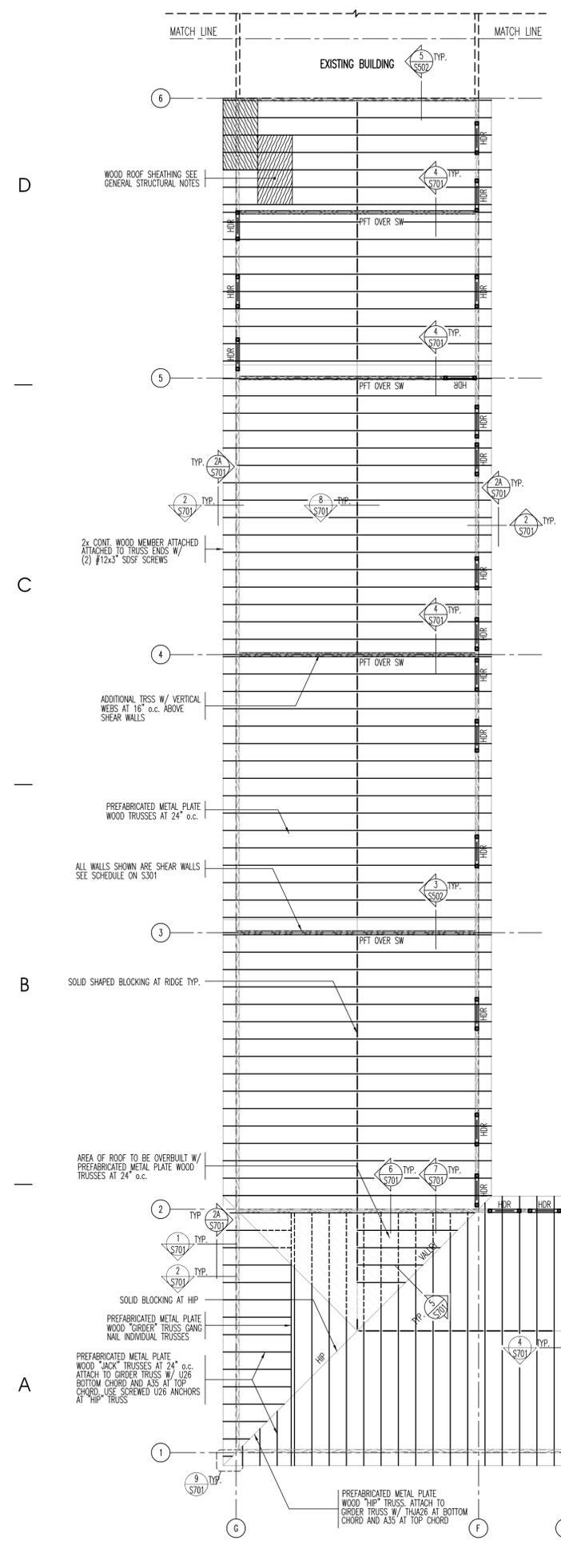
**ROOF FRAMING
PLANS**

REVISIONS
MARK DATE DESCRIPTION

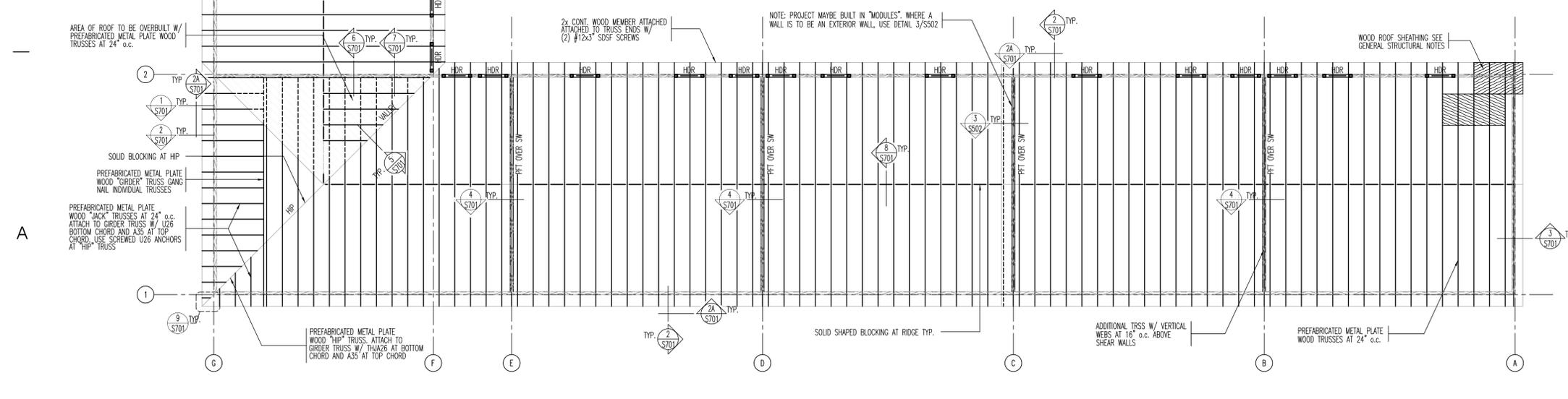
ISSUE DATA
ISSUE DATE: 4/13/06
ISSUE TYPE:
DRAWN BY: Ronnie M.
CHECKED BY: Chris Barker
PROJECT NUMBER: 26069

- ROOF FRAMING PLAN NOTES:**
1. VERIFY ROOF SLOPES, DRAINS, AND DECK BEARING ELEVATIONS WITH ARCHITECTURAL DRAWINGS.
 2. REFER TO ARCHITECTURAL DRAWINGS FOR ALL CEILING ELEVATIONS AND SOFFIT ELEVATIONS AND DETAILS.
 3. ALL ROOF SHEATHING SHALL HAVE FACE GRAIN PERPENDICULAR TO FRAMING MEMBERS.
 4. WEIGHTS AND LOCATIONS OF MECHANICAL EQUIPMENT SHALL BE SUBMITTED TO ARCHITECT IN WRITING FOR REVIEW PRIOR TO PLACEMENT OF ROOF FRAMING.
 5. TRUSS MANUFACTURER TO SUBMIT SHOP DRAWINGS FOR REVIEW OF ALL FRAMING MEMBERS.
 6. REFER TO GENERAL STRUCTURAL NOTES ON SHEET (S101) FOR DESIGN LOADS OF ROOF TRUSSES.
 7. ALL TRUSS DETAILS, AND TRUSS TO GIRDER TRUSS DETAILS SHALL BE PROVIDED BY THE TRUSS MANUFACTURER.
 8. TRUSS MANUFACTURER SHALL VERIFY ALL CEILING ELEVATIONS AND SPECIAL CONDITIONS PRIOR TO FABRICATION.
 9. ALL GIRDER TRUSS BEARING LOCATIONS SHALL BE MULTIPLE STUDS, AND SHALL BE OF CONTINUOUS FRAMING TO THE FOUNDATION LEVEL. SEE PLANS.
 10. CONTRACTOR SHALL BE RESPONSIBLE TO PROPERLY BRACE BEAMS, TRUSSES, ETC. AS REQUIRED DURING CONSTRUCTION.

- MARKS & SYMBOLS LEGEND**
- SECTION MARK SHEET NUMBER
 - INDICATES LOAD BEARING WALLS, DIRECTLY BELOW THIS LEVEL
 - INDICATES NON-BEARING WALLS. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION AND ADDITIONAL INFORMATION.
 - INDICATES BEARING OR SHEAR WALL BELOW
 - INDICATES WOOD POST.
 - INDICATES ROOF SHEATHING ORIENTATION. 19/32" THICK, WITH 32/16 APA SPAN RATING FASTEN W/ 8d NAILS 6" o.c. ON EDGES AND 12" o.c. IN THE FIELD. SEE GENERAL STRUCTURAL NOTES ON SHEET (S101) FOR MORE INFORMATION.
 - PFT. INDICATES PREFABRICATED TRUSSES SEE GENERAL NOTES ON SHEET (S101) FOR TRUSS LOADING REQUIREMENTS. SEE ARCHITECTURAL DRAWINGS FOR SPECIAL CEILING CONFIGURATION, ROOF SLOPES AND OVERHANG CONDITIONS.
 - PFT OVER SW INDICATES PRE-FABRICATED TRUSS OVER SHEAR WALL BELOW. TRUSS SHALL BE DESIGNED TO TRANSFER 200 PLF IN PLANE.



ROOF FRAMING PLANS
SCALE: 1/8"=1'-0"



June 12, 2006
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MINIMUM NAILING SCHEDULE	
CONNECTION	NAILING
SOLE PLATE TO JOIST OR BLOCKING, FACE NAIL	16d at 1'-4"cc.
BRIDGING TO JOIST, TOENAIL EACH END	(2) 8d
BLOCKING BETWEEN JOIST OR RAFTERS TO TOP PLATE, TOE NAIL	(3) 8d
RIM JOIST TO TOP PLATE, TOE NAIL	8d at 0'-6"cc.
COLLAR TIE TO RAFTER, FACE NAIL	(3) 10d
JACK RAFTER TO HIP, TOE NAIL	(2) 16d
FACE NAIL	(2) 16d
ROOF RAFTER TO 2x RIDGE BEAM, TOE NAIL	(2) 16d
FACE NAIL	(2) 16d
JOIST TO BAND JOIST, FACE NAIL	(2) 16d
LEADER STRIP, FACE NAIL	(2) 16d
TOP PLATE TO STUD, END NAIL	(2) 16d
STUD TO SOLE PLATE, END NAIL	(2) 16d
DOUBLE STUDS, FACE NAIL	16d at 2'-0"cc.
DOUBLED TOP PLATES, FACE NAIL	16d at 1'-4"cc.
TOP PLATES, LAPS & INTERSECTION, FACE NAIL	(2) 16d
CONTINUOUS HEADER, TWO PIECES	16d at 1'-4"cc. along ea edge
CEILING JOISTS TO PLATE, TOENAIL	(3) 8d
CONTINUOUS HEADER TO STUD, TOENAIL	(4) 8d
CEILING JOISTS, LAPS OVER PARTITIONS, FACE NAIL	(3) 16d
CEILING JOISTS TO PARALLEL RAFTERS, FACE NAIL	(3) 16d
RAFTER TO PLATE, TOENAIL	(3) 8d
1" BRACE TO EACH STUD & PLATE, FACE NAIL	(2) 8d
BUILT-UP CORNER STUDS	16d at 2'-0"cc.
BUILT-UP GIRDERS & BEAMS	20d at 3/2"cc. at top & bottom & staggered. (2) 20d at ea 1/2"cc. at ea. splice
* PLYWOOD & PARTICLEBOARD:	
SUBFLOOR, ROOF & WALL SHEATHING (TO FRAMING)	8d
1/2" AND LESS	8d or 10d
19/32" - 3/4"	8d
3/8" - 1"	10d or 8d
1 1/8" - 1 1/4"	10d or 8d
COMBINATION SUBFLOOR-UNDERLAYMENT (TO FRAMING)	
3/4" AND LESS	8d
3/8" - 1"	8d
1 1/8" - 1 1/4"	10d or 8d
* NAILS SPACED AT 6 INCHES ON CENTER AT EDGES, 12 INCHES AT INTERMEDIATE SUPPORTS, EXCEPT 6 INCHES AT ALL SUPPORTS WHERE SPANS ARE 48 INCHES OR MORE. FOR NAILING OF DIAPHRAGMS AND SHEAR WALLS, REFER TO SHEAR WALL SCHEDULE.	

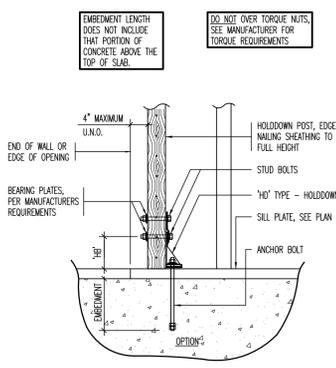
- MINIMUM NAILING NOTES:**
- NAILING SCHEDULE IS PER TABLE 2304.9.1 OF THE I.B.C. 2000.
 - NAILING REQUIREMENTS SHOWN HERE DO NOT REPLACE HARDWARE SHOWN ON THE PLANS OR DETAILS.
 - ALL NAILS USED ARE COMMON NAILS.

TABLE OF EQUIVALENT FASTENERS FOR STRUCTURAL WOOD SHEATHING			
ATTACHMENT OF SHEATHING 1/2" THICK OR THINNER			
ALTERNATE FASTENER	SPECIFIED NAILING 8d COMMON NAILS (0.131" x 2 1/2")		
	8d AT 4"cc.	8d AT 6"cc.	8d AT 12"cc.
0.092" x 2 1/4" NAIL	2"cc. (NOTE 7)	3"cc.	6"cc.
0.099" x 2 1/4" NAIL	2"cc. (NOTE 7)	4"cc.	8"cc.
0.113" x 2" NAIL	2"cc. (NOTE 7)	4"cc.	8"cc.
0.113" x 2 1/2" BOX NAIL	3"cc.	4"cc.	8"cc.
0.113" x 2 3/8" COOLER NAIL	3"cc.	4"cc.	8"cc.
0.120" x 3" NAIL	3"cc.	4"cc.	8"cc.
16 GAGE x 1 3/4" STAPLE	2"cc.	3"cc.	6"cc.
15 GAGE x 2" STAPLE	2"cc.	3"cc.	6"cc.
15 GAGE x 1 3/4" STAPLE	2"cc.	4"cc.	8"cc.
15 GAGE x 2 1/4" STAPLE	2"cc.	4"cc.	8"cc.
15 GAGE x 1 1/2" STAPLE	2"cc.	4"cc.	8"cc.
16 GAGE x 2 1/4" STAPLE	3"cc.	4"cc.	8"cc.
16 GAGE x 1 1/2" STAPLE	3"cc.	4"cc.	8"cc.
16 GAGE x 3" STAPLE	3"cc.	4"cc.	8"cc.

- NOTES:**
- FOR FASTENING OF WOOD STRUCTURAL PANEL HORIZONTAL DIAPHRAGMS (FLOOR OR ROOF) AND SHEAR WALLS.
 - NAILS WITH A DEFORMED (SCREW OR RING) SHANK MAY BE USED AT THE SAME SPACING SHOWN.
 - THE FOLLOWING NAIL HEADS ARE ALLOWED: ROUND, OFFSET, OVAL, CLIPPED AND NOTCHED.
 - NAILS WITH A T, BRAD, FINISH OR CASING HEADS ARE NOT ALLOWED FOR STRUCTURAL CONNECTIONS.
 - STAPLES SHALL HAVE A MINIMUM 7/16" CROWN WIDTH.
 - STAPLES AND NAILS MADE FROM ALUMINUM OR COPPER ARE NOT ALLOWED FOR STRUCTURAL CONNECTIONS.
 - FRAMING AT ADJOINING PANEL EDGES SHALL BE 3" NOMINAL OR WIDER AND NAILS SHALL BE STAGGERED WHERE NAILS ARE SPACED AT 2"cc.

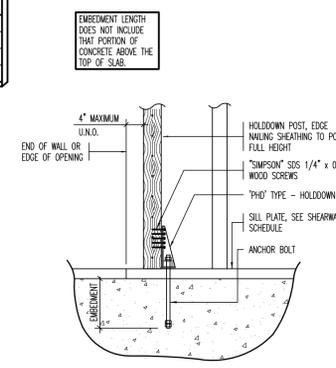
'HD' TYPE HOLDOWN SCHEDULE					
MARK	HOLDOWN POST	STUD BOLT	ANCHOR BOLT DIAMETER	'HD'	EMBEDMENT DEPTH
HD2A	(2) 2x	(2) 5/8"	5/8"	4 9/16"	0'-6"

- 'HD' TYPE HOLDOWN NOTES:**
- ANCHOR BOLTS SHALL INCLUDE A STANDARD "J" HOOK WITH 44 RETURN.
 - INCREASE FOOTING DEPTH WHERE EMBEDMENT LENGTH PLUS 3" IS GREATER THAN FOOTING DEPTH SPECIFIED.
 - ALL HOLDOWNS SPECIFIED ARE "SIMPSON - STRONG TIE", SEE GENERAL STRUCTURAL NOTES FOR SUBSTITUTIONS.
 - LAG SCREWS SHALL NOT BE USED.



'PHD' TYPE HOLDOWN SCHEDULE				
MARK	HOLDOWN POST	WOOD SCREWS 'SIMPSON' SCS 1/4" x 0'-3"	ANCHOR BOLT DIAMETER	EMBEDMENT DEPTH
PHD2	(2) 2x	(10)	5/8"	0'-6"

- 'PHD' TYPE HOLDOWN NOTES:**
- ANCHOR BOLTS SHALL INCLUDE A STANDARD "J" HOOK WITH 44 RETURN.
 - INCREASE FOOTING DEPTH WHERE EMBEDMENT LENGTH PLUS 3" IS GREATER THAN FOOTING DEPTH SPECIFIED.
 - ALL HOLDOWNS SPECIFIED ARE "SIMPSON - STRONG TIE", SEE GENERAL STRUCTURAL NOTES FOR SUBSTITUTIONS.
 - LAG SCREWS SHALL NOT BE USED.



1 MINIMUM NAILING SCHEDULE NO SCALE

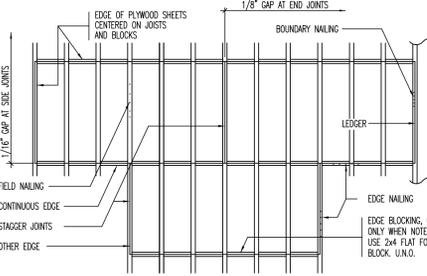
2 TABLE OF EQUIVALENT FASTENERS FOR STRUCTURAL WOOD SHEATHING NO SCALE

3 'HD' TYPE HOLDOWN SCHEDULE NO SCALE

4 'PHD' TYPE HOLDOWN SCHEDULE NO SCALE

ROOF SHEATHING SCHEDULE AT ROOF						
LOCATION	WOOD SHEATHING THICKNESS	NAIL SIZE	EDGE NAIL		FIELD NAIL	BOUNDARY NAIL
			CONT. EDGE	OTHER EDGE		
ROOF	19/32	10	6"	6"	12"	4"

- PLYWOOD SHEATHING NOTES:**
- MINIMUM NAIL PENETRATION INTO FRAMING 8d-1 1/2", 10d-1 5/8".
 - USE SCREW SHANK NAILS AT FLOOR PLYWOOD.
 - USE COMMON NAILS. (8d DIAMETER = 0.131", 10d DIAMETER = 0.148")



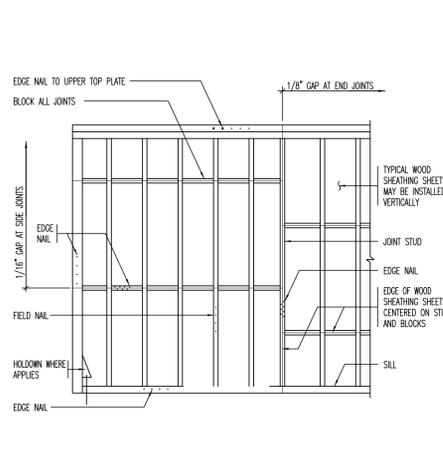
5 ROOF SHEATHING SCHEDULE AT ROOF NO SCALE

WOOD SHEATHING SHEARWALL SCHEDULE						
MARK	WOOD SHEATHING THICKNESS	NAIL SIZE	EDGE NAIL	FIELD NAIL	JOINT STUD, BLOCKING, SILL	SILL NAILING TO WOOD
ALL WALLS	7/16"	8d	6"cc.	12"cc.	2x	8d AT 4"cc. 5/8" AT 32"cc.

- WOOD SHEATHING SHEARWALL NOTES:**
- MINIMUM NAIL PENETRATION INTO FRAMING, 8d = 1 1/2", 10d = 1 5/8"
 - USE COMMON NAILS. (8d DIAMETER = 0.131", 10d DIAMETER = 0.148")

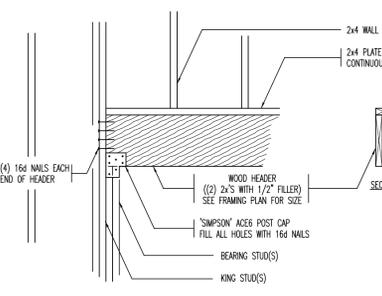


6 WOOD SHEATHING SHEARWALL SCHEDULE NO SCALE



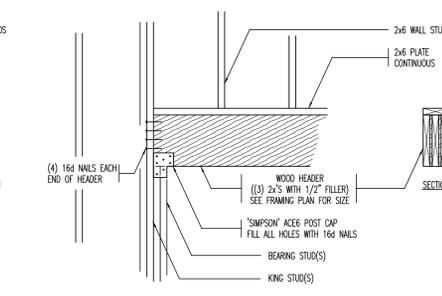
7 HEADER BEARING SCHEDULE FOR 2x4 STUD WALL NO SCALE

HEADER BEARING SCHEDULE FOR 2x4 STUD WALL					
HEADER SPAN	HEADER	BEARING STUD(S)	KING STUD(S)	COMMENTS:	
0'-0"-4'-0"	(2) 2x10	(2) 2x4	(2) 2x4		
4'-1"-6'-0"	(2) 1 3/4x6 1/4	(2) 2x4	(2) 2x4		
6'-1"-8'-0"	(2) 1 3/4x6 1/4	(3) 2x4	(3) 2x4		
8'-1"-10'-0"	(2) 1 3/4x6 1/4	(3) 2x4	(3) 2x4		



7 HEADER BEARING SCHEDULE FOR 2x4 STUD WALL NO SCALE

HEADER BEARING SCHEDULE FOR 2x6 STUD WALL					
HEADER SPAN	HEADER	BEARING STUD(S)	KING STUD(S)	COMMENTS:	
0'-0"-4'-0"	(3) 2x6	(2) 2x6	(1) 2x6		
4'-1"-6'-0"	(3) 2x10	(2) 2x6	(1) 2x6		
6'-1"-8'-0"	(3) 2x12	(2) 2x6	(2) 2x6		
8'-1"-10'-0"	(3) 1 3/4x6 1/4	(2) 2x6	(2) 2x6		



8 HEADER BEARING SCHEDULE FOR 2x6 STUD WALL NO SCALE

5 ROOF SHEATHING SCHEDULE AT ROOF NO SCALE

6 WOOD SHEATHING SHEARWALL SCHEDULE NO SCALE

7 HEADER BEARING SCHEDULE FOR 2x4 STUD WALL NO SCALE

8 HEADER BEARING SCHEDULE FOR 2x6 STUD WALL NO SCALE

D



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DRAPER, UTAH

SHEET NAME:
**STRUCTURAL
SCHEDULES**

REVISIONS
MARK DATE DESCRIPTION

ISSUE DATA
ISSUE DATE: 4/13/06
ISSUE TYPE:
DRAWN BY: Ronnie M.
CHECKED BY: Chris Barker
PROJECT NUMBER: 26069

June 12, 2006

NOTE:
THESE STRUCTURAL DRAWINGS ARE BASED ON ARCHITECTURAL DRAWINGS DATED 03/15/06
DIMENSIONS AND ELEVATIONS, AS THEY RELATE TO THE BUILDING IN GENERAL, I.E. GRID TO GRID DIMENSIONS OR DECK BEARING ELEVATIONS, ARE SUPPLIED BY THE ARCHITECT. THEY ARE PROVIDED ON THE STRUCTURAL PLANS AND DETAILS FOR THE CONVENIENCE OF THE CONTRACTOR. VERIFY DIMENSIONS AND ELEVATIONS WITH ARCHITECTURAL DRAWINGS.

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DRAPER, UTAH

STRUCTURAL DETAILS

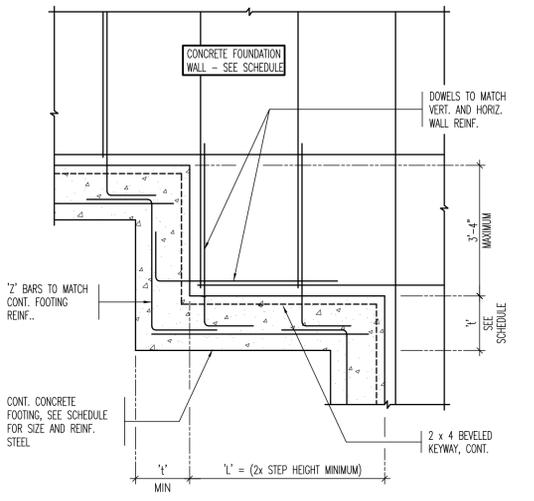
REVISIONS		
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ISSUE DATE:	4/13/06
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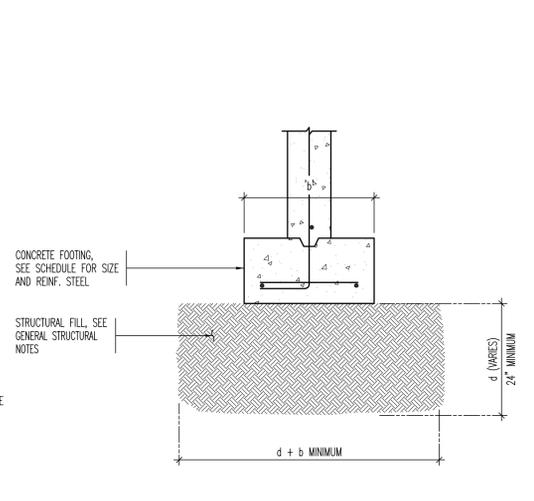
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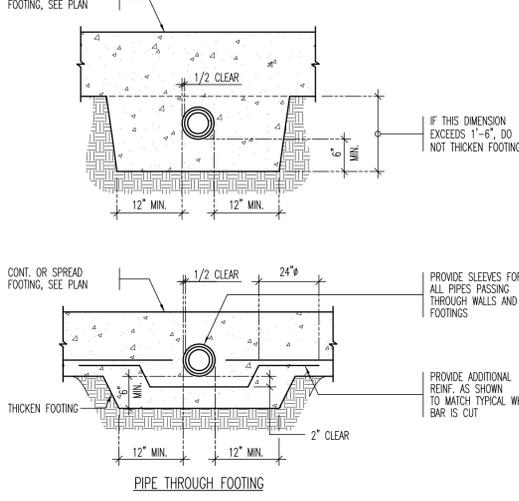
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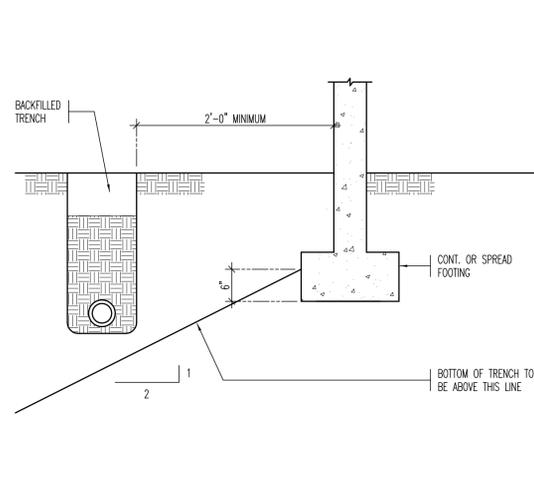
4 TYPICAL FOOTING STEP DETAIL AT CONCRETE FOUNDATION WALL NO SCALE



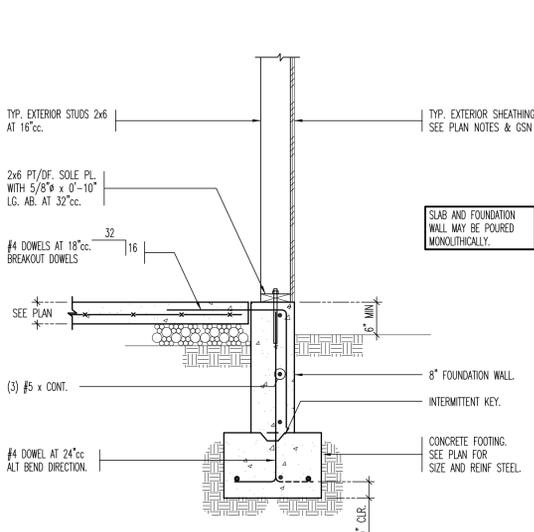
3 COMPACTED STRUCTURAL FILL DETAIL IF REQUIRED BY SITE CONDITIONS NO SCALE



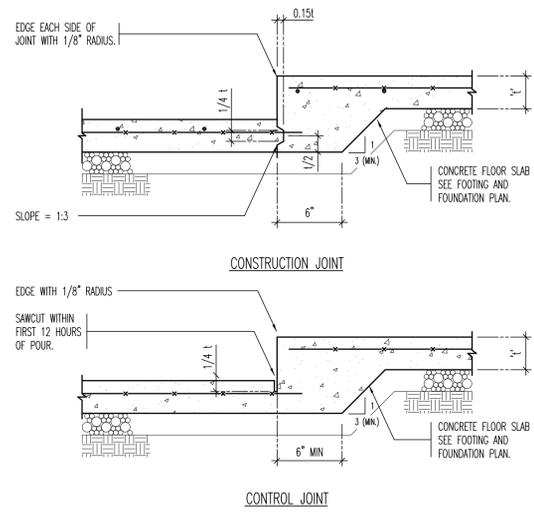
2 PIPE PERPENDICULAR TO FOOTING DETAIL NO SCALE



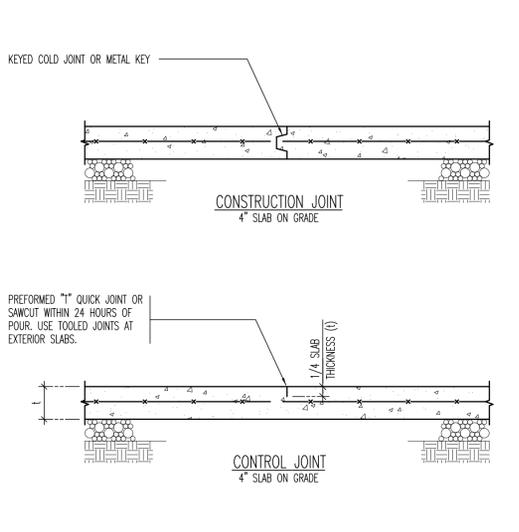
1 PIPE PARALLEL TO FOOTING DETAIL NO SCALE



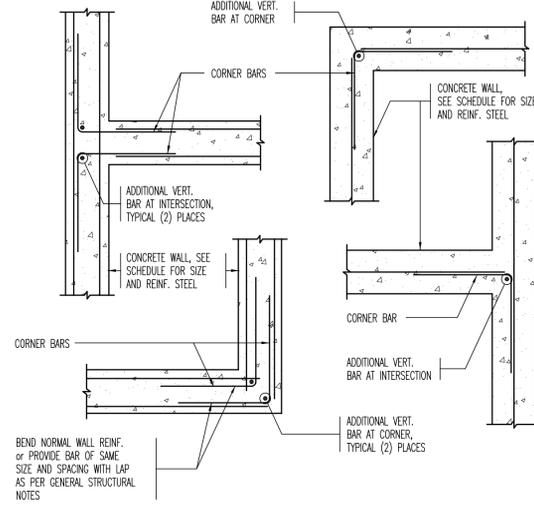
8 TYPICAL EXTERIOR FOOTING NO SCALE



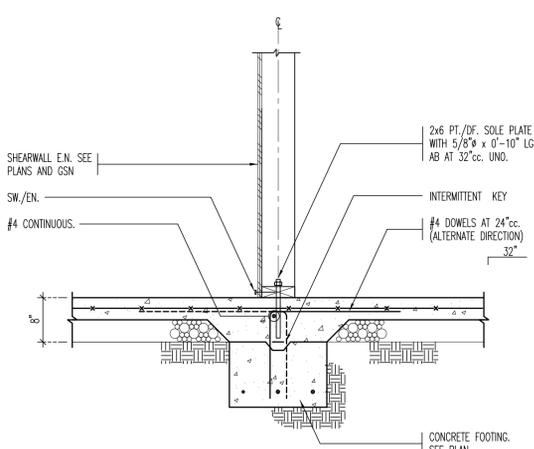
7 TYPICAL SLAB DEPRESSION DETAILS NO SCALE



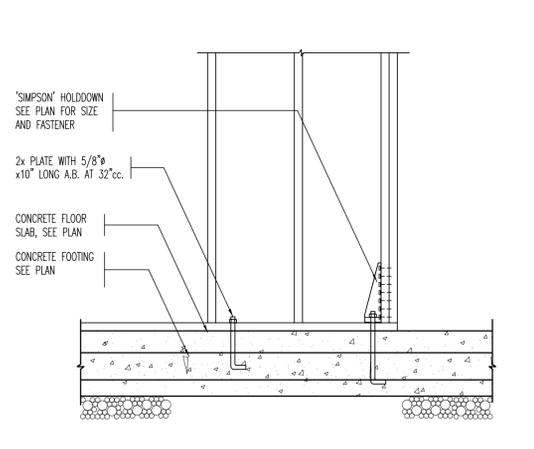
6 TYPICAL SLAB ON GRADE JOINT DETAILS NO SCALE



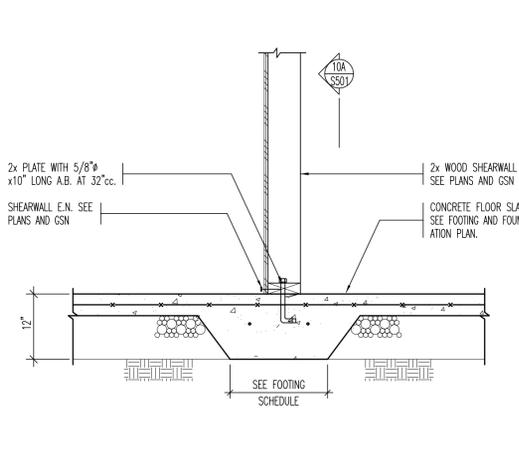
5 TYPICAL CORNER WALL REINF. DETAILS PLAN VIEW NO SCALE



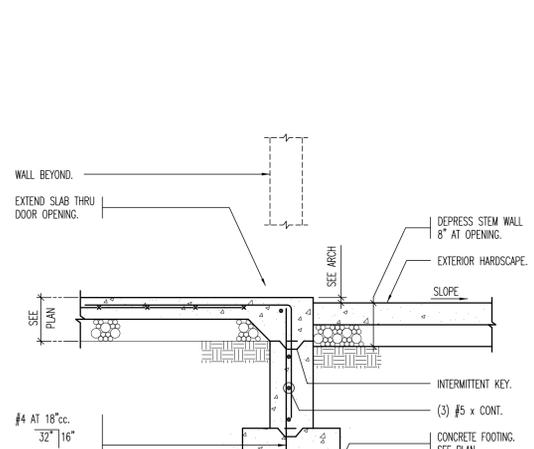
11 TYPICAL INTERIOR SHEARWALL (ALTERNATE) NO SCALE



10A TYPICAL INTERIOR SHEARWALL NO SCALE



10 TYPICAL INTERIOR SHEARWALL NO SCALE



9 DETAIL AT OPENINGS NO SCALE

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DRAPER, UTAH

SHEET NAME:

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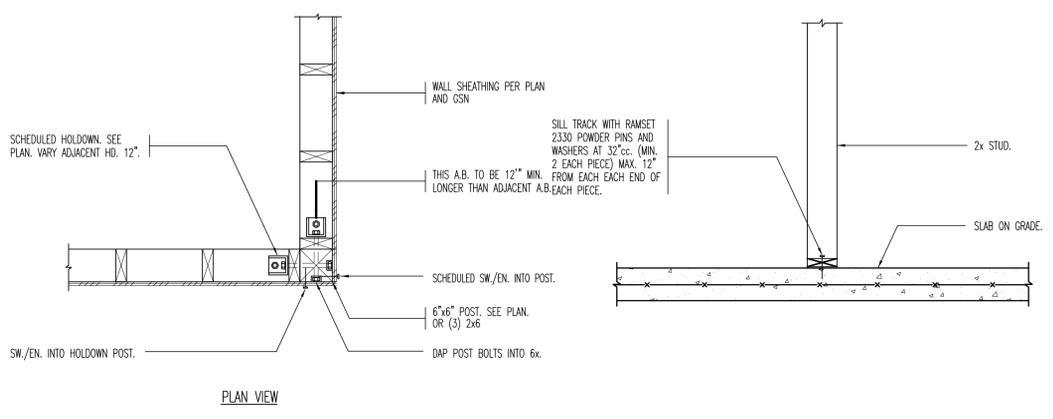
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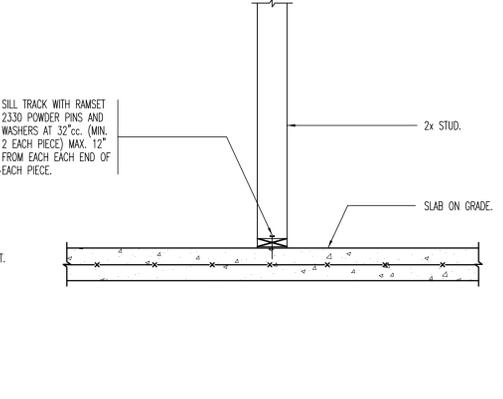
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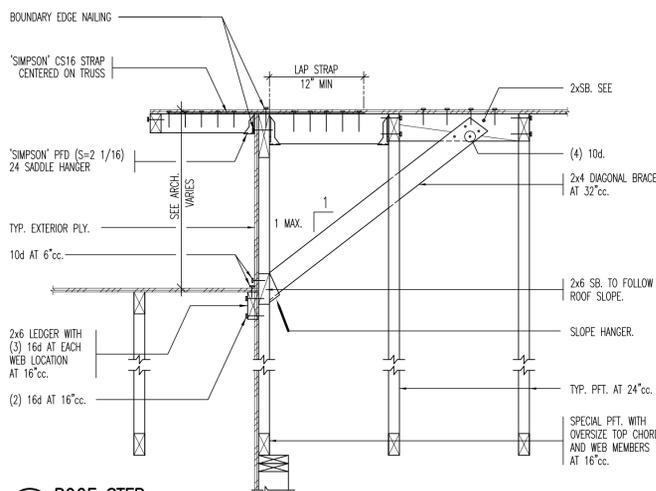
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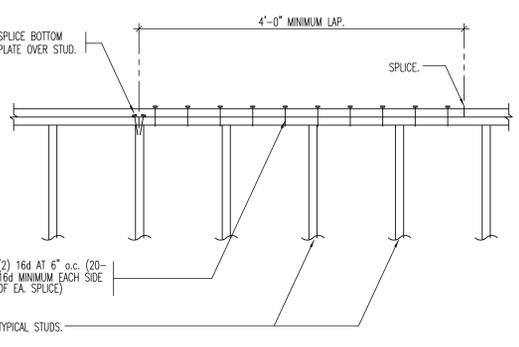
1 DETAIL AT HOLDDOWN
 NO SCALE



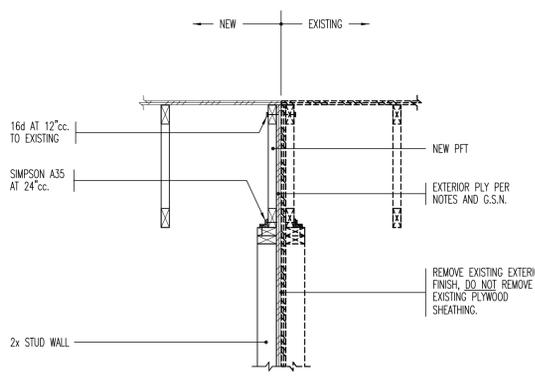
2 SLAB ON GRADE, NON-BEARING WALL, NON-SHEARWALL
 3/4" = 1'-0"



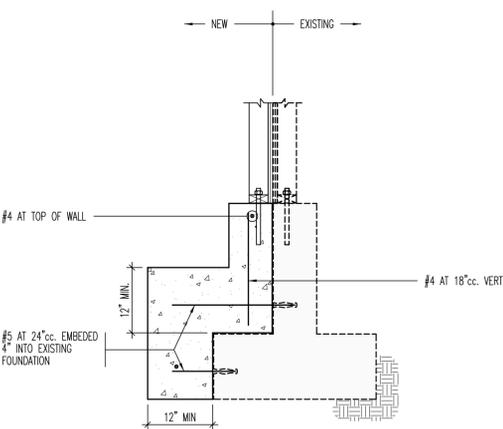
3 ROOF STEP
 NO SCALE



4 TYPICAL TOP PLATE SPLICE - EXTERIOR AND INTERIOR SHEARWALL.
 NO SCALE



5 NEW TO EXISTING ROOF DETAIL
 NO SCALE



6 NEW TO EXISTING FOUNDATION
 NO SCALE

D

C

B

A



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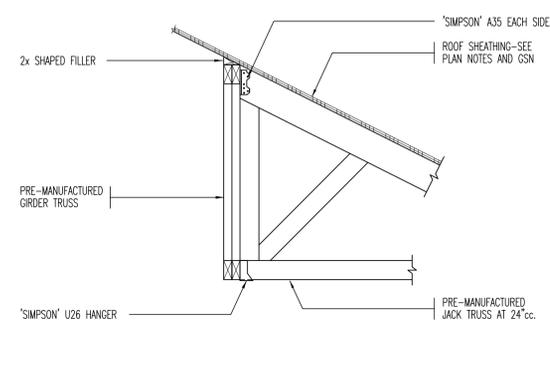
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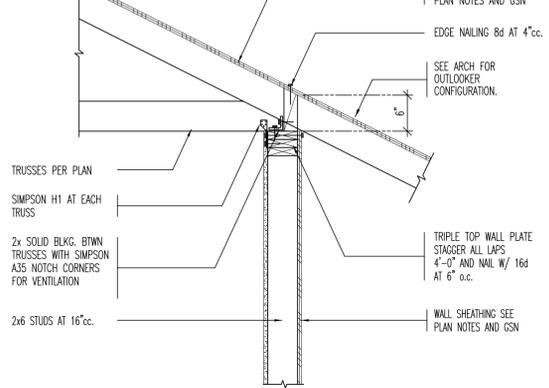
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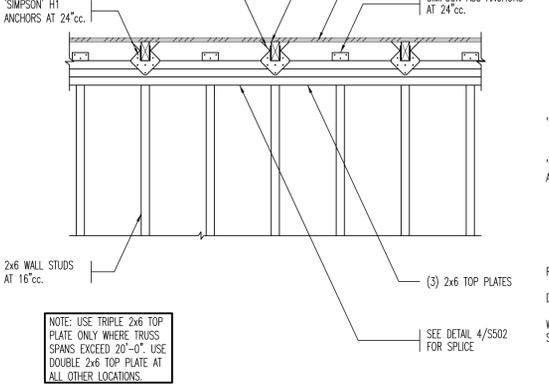
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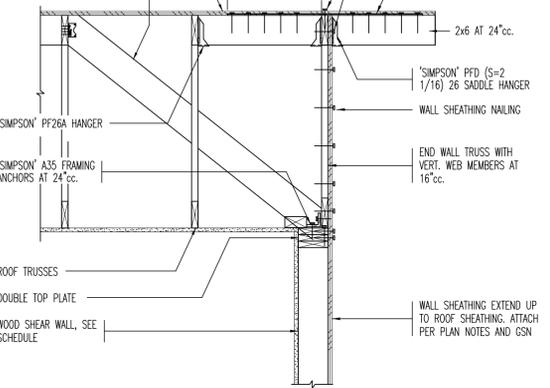
1 JACK TRUSS TO GIRDER TRUSS DETAIL
NO SCALE



2 TRUSS TO WALL CONNECTION
NO SCALE

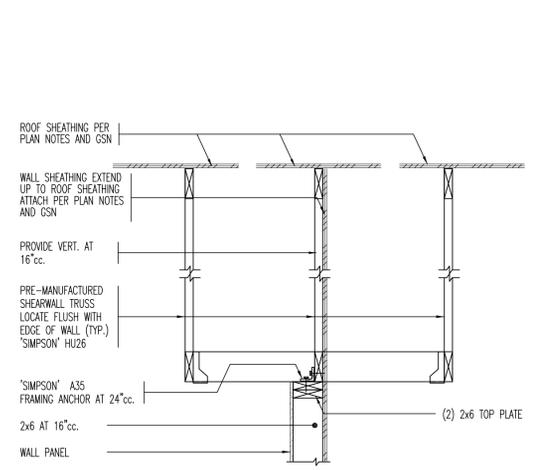


2A BLOCKING DETAIL AT BEARING WALLS
NO SCALE

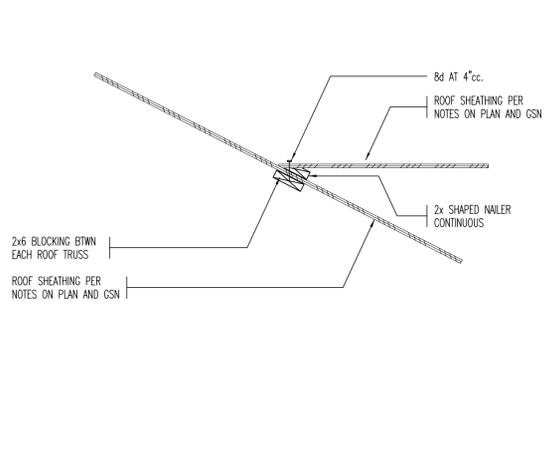


3 ROOF DIAPHRAGM CONNECTION AT EXTERIOR WALL
NO SCALE

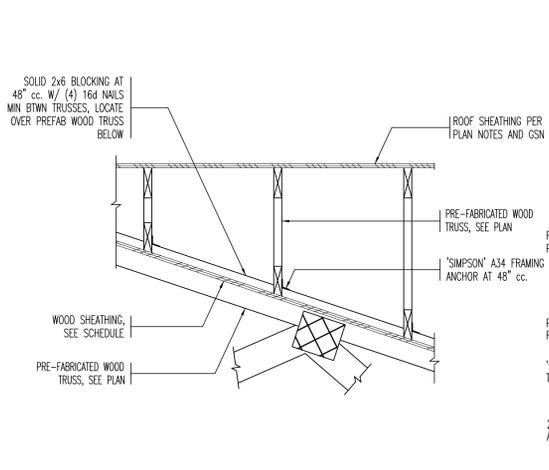
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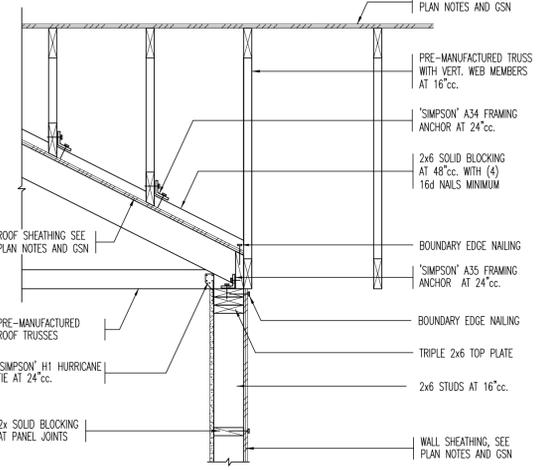
4 DETAIL AT TRUSS INTERIOR SHEAR WALL.
NO SCALE



5 OVERBUILD DETAIL
NO SCALE

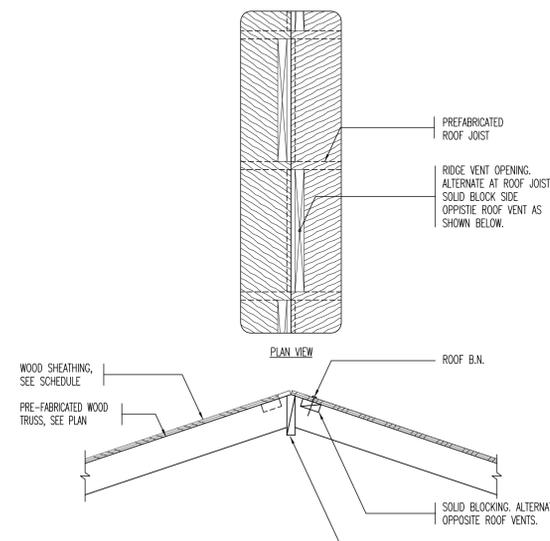


6 OVERBUILD DETAIL
NO SCALE

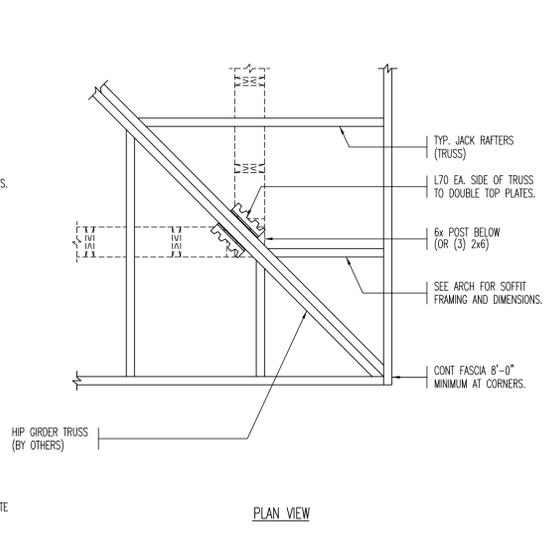


7 OVERBUILD DETAIL
NO SCALE

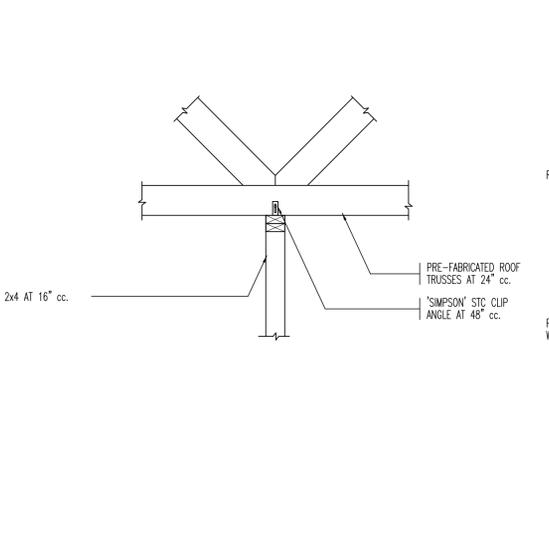
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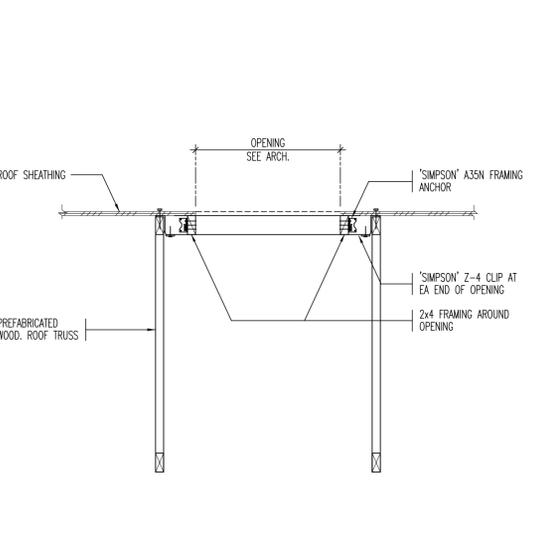
8 DETAIL AT RIDGE
NO SCALE



9 DETAIL AT CORNERS
NO SCALE



10 INTERIOR NON-BEARING PARTITION WALL SUPPORT DETAIL
NO SCALE



11 TYPICAL ROOF OPENING DETAIL
NO SCALE

A

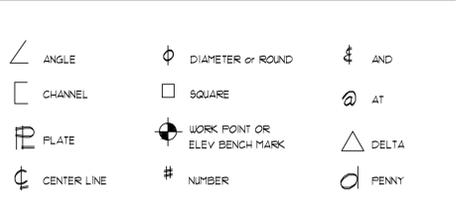


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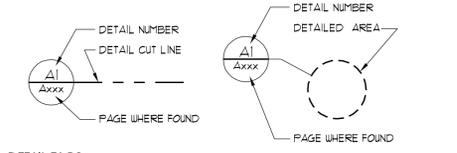
ABBREVIATIONS

Table of abbreviations with columns for abbreviations and full names. Includes categories like ANCHOR BOLTS, APPROVED, ACOUSTICAL, ASPHALT CONCRETE, AIR CONDITIONING, ACCESS DOOR, ABOVE FINISHED FLOOR, ALUMINUM, BOARD, BUILDING, BLOCK, BEAM, BOTTOM, CENTER TO CENTER, CERAMIC, CEILING HEIGHT, CEMENT, CEILING CLOSET, CLEAR, CONCRETE MASONRY UNIT, COLUMN, COMPOSITION, CONCRETE, CONNECTION, CONTINUOUS, CORRIDOR, COUNTERSINK, DELETE, DETAIL, DOUGLAS FIR, DRINKING FOUNTAIN, DIAMETER, DIAGONAL, DIMENSION, DIRECTION, DOUBLE, DOWN, DOOR OPENING, DRAIN, DRAWING, LAVATORY, LEVEL, LIGHTING, LIGHT WEIGHT, EACH, ELECTRICAL, ELEVATION, EQUAL, EQUIPMENT, EXISTING, EXPANSION JOINT, EXTERIOR, ELEC WATER COOLER, FINISH FLOOR, FIRE HOSE CABINET, FINISH, FLOOR, FINISHED OPENING, FACE OF CONCRETE, FACE OF STUD, FACE OF WALL, FOUNDATION, FIBER REINFORCED PLASTIC, FLOOR DRAIN, FLOOR SINK, FULL SIZE, FULL SIZE DETAIL, FEET, FULL HEIGHT, GAUGE, GENERAL CONTRACTOR, GLASS, GALVANIZED, GRADE, GYPSUM BOARD, GRANITE SCHOOL DISTRICT, HIGH, HARDWOOD, HORIZONTAL, HOLLOW METAL, HIGH POINT, INSIDE DIAMETER, INSULATION, INTERIOR, JANITOR, LAVATORY, LEVEL, LIGHTING, LIGHT WEIGHT, MAINTENANCE MATERIAL, MAXIMUM, MACHINE BOLT, MECHANICAL, METAL, MEZZANINE, MISCELLANEOUS, MASONRY OPENING, MINIMUM, MULLION, NEW, NOT IN CONTRACT, NUMBER, NOT TO SCALE, NON-RATED, PORTLAND CEMENT, PLASTER, PLYWOOD, PREPARATION, PROJECTION, PRESSURE TREATED, PRESSURE TREATED DOUGLAS FIR, QUARRY TILE, RISER, RADIUS, ROOF DRAIN, REFERENCE, REFLECTED, REINFORCE, REQUIRED, RESILIENT, ROOM, ROUGH OPENING, REDWOOD, SECTION SHEET, SIMILAR, SIMULATED SPECIFICATIONS, STAINLESS STEEL, STATION, STANDARD STEEL, SQUARE, STRUCTURAL, SUSPENDED, SYMMETRICAL, TREAD, TOP BACK OF CURB, TRAFFIC DECK COVERING, TONGUE & GROOVE, TEMPERED, TELEPHONE, THICK, TOP OF CONCRETE or CURB, TOP OF FOOTING, TOP OF PARAPET, TOP OF STEEL, TYPICAL, TOP OF WALL, UNLESS NOTED OTHERWISE, VERTICAL, WIDE WITH, WATER CLOSET, WOOD, WROUGHT IRON, WATER LEVEL, WORKING POINT, WATERPROOFING

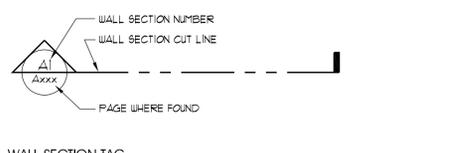
SYMBOLS



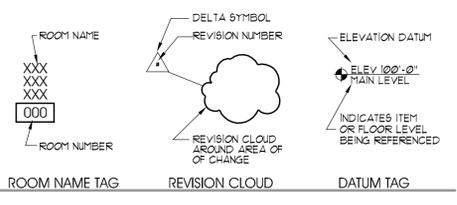
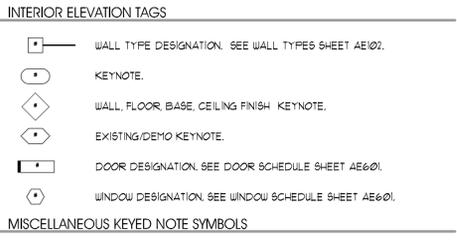
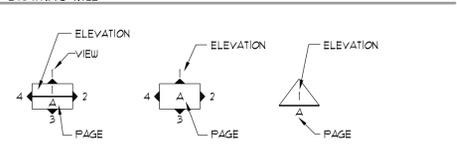
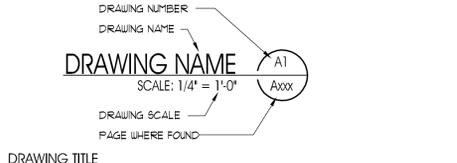
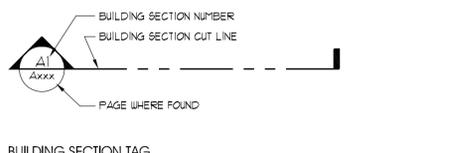
DETAIL TAGS



WALL SECTION TAG



BUILDING SECTION TAG



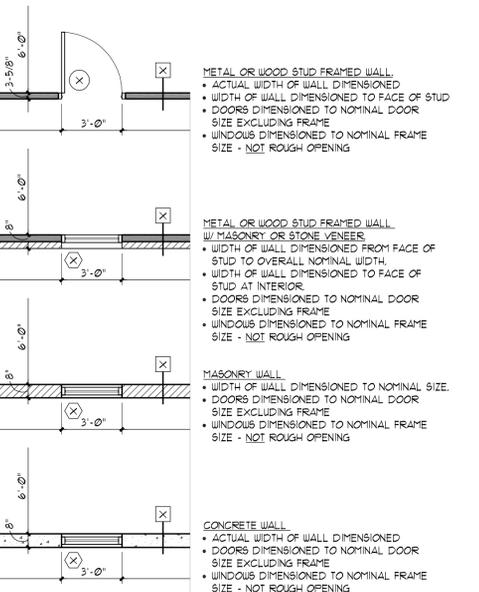
GENERAL NOTES:

- 01 THE GENERAL CONTRACTOR SHALL HEREFTER BE REFERRED TO AS "GENERAL CONTRACTOR" OR "GC". THE OWNER MAY HEREFTER BE REFERRED TO AS "OWNER"
02 PLEASE NOTE: THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL WORK REGARDLESS OF THE LOCATION OF THE INFORMATION IN THE DOCUMENTS. THE GENERAL CONTRACTOR SHALL UTILIZE THE CONSTRUCTION DRAWINGS AND WRITTEN SPECIFICATIONS FOR ALL REQUIRED INFORMATION TO PROVIDE COMPLETE CONSTRUCTION OF THIS PROJECT. ITEMS LISTED IN DRAWINGS MAY NOT BE INCLUDED IN SPECIFICATIONS. ITEMS LISTED IN SPECIFICATIONS MAY NOT BE INCLUDED IN DRAWINGS.
03 UNLESS OTHERWISE INDICATED IN THE CONSTRUCTION DOCUMENTS AS BEING NOT IN CONTRACT (N.I.C.) OR EXISTING, ALL ITEMS, MATERIALS AND INSTALLATION OF SAME ARE PART OF THE CONTRACT AS DEFINED BY THE CONSTRUCTION DOCUMENTS. THE GC SHALL PROVIDE AND INSTALL ALL ACCESSORIES, COMPONENTS AND ASSEMBLIES REQUIRED FOR THE WORK DEPICTED OR SPECIFIED.
04 THE GENERAL CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS AND DIMENSIONS PRIOR TO BEGINNING ANY WORK AND SHALL BE RESPONSIBLE FOR ALL WORK AND MATERIALS INCLUDING THOSE FURNISHED BY SUBCONTRACTORS. THE GC SHALL ACCEPT PREMISES AS FOUND. OWNER WILL MAINTAIN THE EXISTING CONDITION OF THE SITE AND EXISTING STRUCTURES AT THE TIME OF BIDDING.
05 DISCREPANCIES BETWEEN PORTIONS OF THE CONTRACT DOCUMENTS ARE NOT INTENDED. THE GENERAL CONTRACTOR IS TO CLARIFY WITH THE ARCHITECT ANY SUCH DISCREPANCIES PRIOR TO COMMENCING WORK.
06 DIMENSIONS TAKE PRECEDENCE OVER DRAWINGS. DO NOT SCALE DRAWINGS TO DETERMINE ANY LOCATIONS. THE ARCHITECT SHALL BE NOTIFIED OF ANY DISCREPANCY PRIOR TO CONTINUING WITH WORK.
07 ALL PLAN DIMENSIONS ARE FROM GRIDLINE OR FACE OF STUD UNLESS OTHERWISE INDICATED. SEE SECTION ON "DIMENSIONING" THIS SHEET.
08 THE CONTRACTOR SHALL REPORT TO THE ARCHITECT ALL CONDITIONS REQUIRING COORDINATION/ CHANGES WITH THE CONTRACT DOCUMENTS. COORDINATION / APPROVAL SHALL TAKE PLACE BEFORE THE WORK BEGINS. ALL CHANGES TO THE CONTRACT COST SHALL BE APPROVED THROUGH A CHANGE ORDER.
09 DETAILED DRAWINGS AND LARGER SCALE DRAWINGS TAKE PRECEDENCE OVER SMALL SCALE DRAWINGS.
010 THE ARCHITECT WILL REVIEW SHOP DRAWINGS AND SAMPLES FOR CONFORMANCE WITH DESIGN CONCEPT OF THE PROJECT. THE ARCHITECT'S REVIEW OF A SEPARATE ITEM SHALL NOT INDICATE APPROVAL OF AN ASSEMBLY IN WHICH THE ITEM FUNCTIONS. THE ARCHITECT WILL NOT REVIEW SHOP DRAWINGS UNTIL THE GC HAS REVIEWED AND STAMPED THE SHOP DRAWINGS/SUBMITTAL. THE GC IS RESPONSIBLE FOR FIELD VERIFYING ALL DIMENSIONS SHOWN ON THE SHOP DRAWINGS. THE ARCHITECT'S REVIEW OF THE SHOP DRAWINGS SHALL NOT OVERRIDE THE CONDITIONS DESCRIBED IN THE CONTRACT DOCUMENTS UNLESS SPECIFICALLY NOTED OTHERWISE BY THE ARCHITECT.
011 FOR CONSTRUCTION DETAILS NOT SHOWN, USE THE MANUFACTURER'S STANDARD DETAILS OR APPROVED SHOP DRAWINGS / DATA SHEETS IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
012 FOR GRADING, TRENCHING ETC. CONTACT THE ARCHITECT FOR INSTRUCTIONS PRIOR TO THE CONTINUATION OF WORK SHOULD ANY UNUSUAL CONDITIONS BECOME APPARENT DURING GRADING OR FOUNDATION CONSTRUCTION. EXISTING ELEVATIONS AND LOCATIONS TO BE JOINED SHALL BE VERIFIED BY THE GENERAL CONTRACTOR BEFORE CONSTRUCTION.
11 ALL WORK MATERIALS AND METHODS SHALL BE IN CONFORMANCE WITH THE CODES, ORDINANCES AND REGULATIONS OF ALL GOVERNMENTAL AGENCIES HAVING JURISDICTION AT THE PROJECT LOCATION. THE GENERAL CONTRACTOR MUST COMPLY WITH THE CONTRACTOR REGISTRATION REQUIREMENTS OF ALL GOVERNING AUTHORITIES.
12 ALL PROJECT CONSTRUCTION SHALL CONFORM WITH ANSI A-117.1-1998, AND THE AMERICANS WITH DISABILITIES ACT (ADA).
13 THE GENERAL CONTRACTOR SHALL NOTIFY ALL APPLICABLE LOCAL GOVERNING AUTHORITIES AND UTILITY COMPANIES PRIOR TO COVERING UP ANY WORK REQUIRING INSPECTION.
14 THE GENERAL CONTRACTOR SHALL MAINTAIN ALL REQUIRED EXITS AND FIRE LANES IN WORKING ORDER.

MATERIALS LEGEND (TYPICAL PLAN VIEWS)

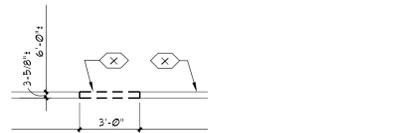
NEW CONSTRUCTION

ALL NEW CONSTRUCTION IS SHOWN HATCHED AS ILLUSTRATED BELOW. ALL NEW CONSTRUCTION IS FULLY NOTED AS SHOWN BELOW. ALL WORK IS NEW UNLESS LABELED "EXISTING". (NOT ALL CONSTRUCTION TYPES SHOWN APPLY)



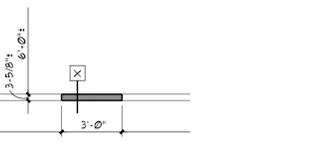
DEMOLITION AT EXISTING CONDITIONS

ALL EXISTING COMPONENTS SHOWN THIN LINE SOLID, NO HATCH. ALL COMPONENTS TO BE DEMOLISHED ARE SHOWN DASHED, THIN LINE

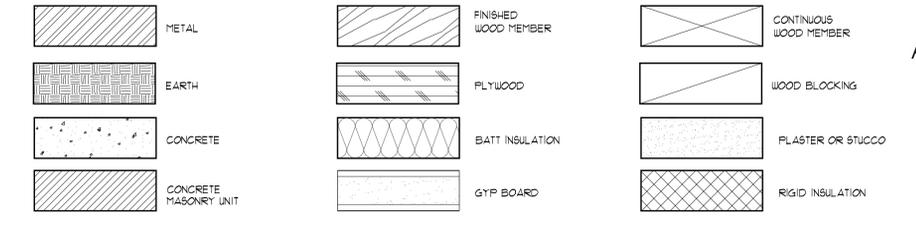


NEW CONSTRUCTION AT EXISTING

NEW CONSTRUCTION SHOWN HATCHED W/ THICKER LINE. ALL EXISTING COMPONENTS SHOWN THIN LINE SOLID, NO HATCH.



MATERIALS LEGEND (TYPICAL SECTION VIEWS)



OWNER INFORMATION

State of Utah
Department of Administrative Services



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PROJECT DESCRIPTION

ATE CENTER AT
UTAH STATE PRISON
VOCATIONAL
CLASSROOMS

DRAPER, UTAH

SHEET NAME:

GEN. NOTES, SYMBOLS,
LEGENDS AND
ABBREVIATIONS

REVISIONS

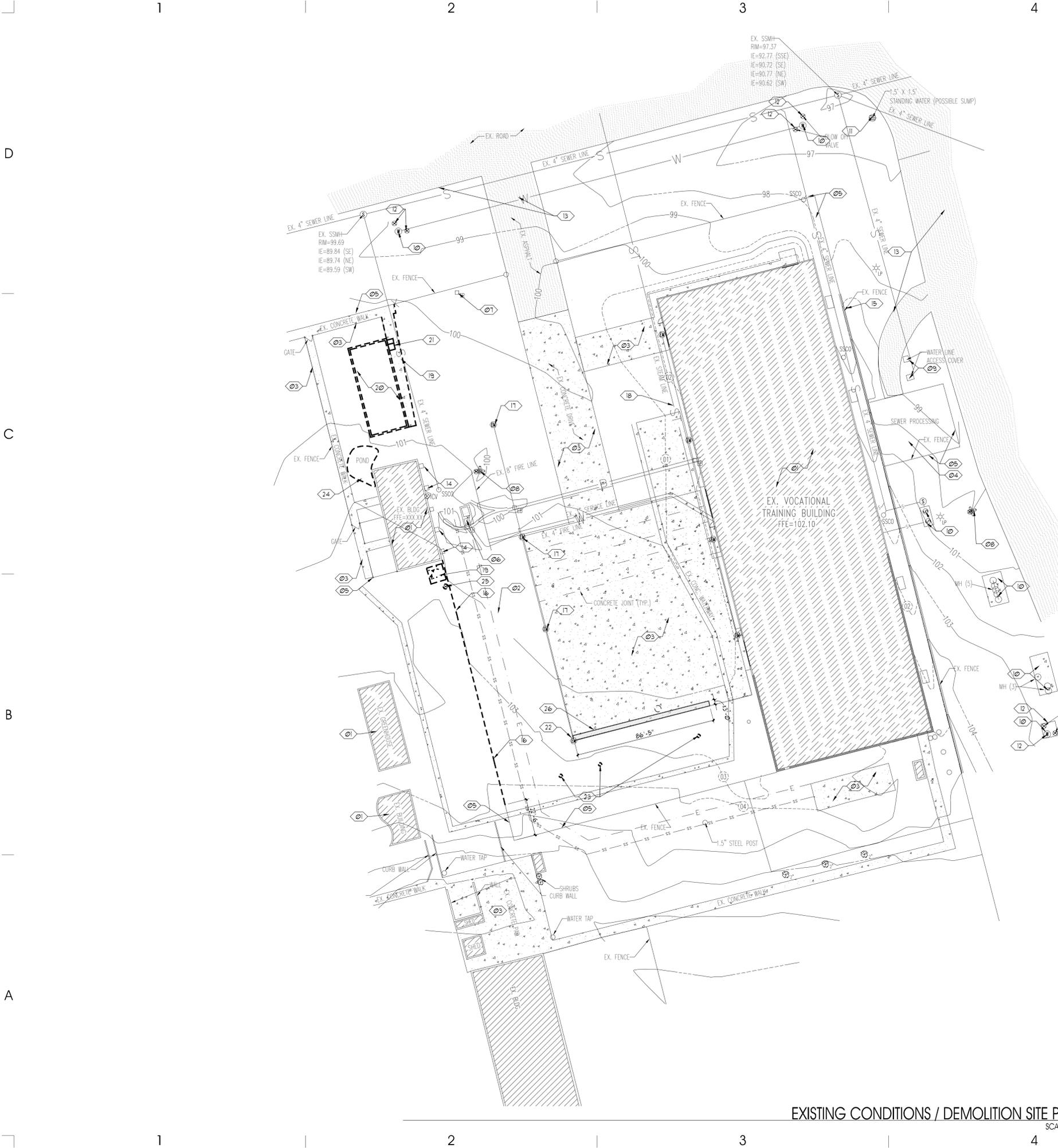
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G1002



GENERAL NOTES AND LEGEND:
FOR SHEET AS101 ONLY.

- SEE SHEET G1002 FOR GENERAL NOTES AND ALTERNATES.
- SEE COVER SHEET FOR DRAWING INDEX.
- DO NOT SCALE DRAWINGS.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE BEGINNING WORK AND SHALL REPORT TO THE ARCHITECT ANY ERRORS, INCONSISTENCIES OR OMISSIONS BEFORE BEGINNING WORK. SEE GENERAL NOTES AND SPECIFICATIONS.
- BASE BID: ALL SITE WORK INCLUDING, BUT NOT LIMITED TO: SITE IMPROVEMENTS AND INFRASTRUCTURE, ALL EXCAVATION FOR UNDERGROUND UTILITIES AND CONCRETE SLABS, FOOTINGS, FOUNDATIONS AND DAMP-PROOFING, ALL UNDER-SLAB PLUMBING AND ELECTRICAL ROUGH-INS, ALL OTHER CONSTRUCTION INDICATED ON PLANS N.I.C. AT THIS TIME.
- ADD ALTERNATE #1: COMPLETE CONSTRUCTION AS SPECIFIED HEREIN FOR THE ENTIRE RESTROOM PORTION OF THE BUILDING LOCATED BETWEEN GRIDS 3 & 4 AS SHOWN ON FLOOR PLANS.

EXISTING / DEMO KEYED NOTE LEGEND:
FOR SHEET AS101 ONLY.

- 01 EXISTING BUILDING TO REMAIN.
- 02 EXISTING STORAGE CONTAINER TO REMAIN.
- 03 EXISTING CONCRETE PAVING TO REMAIN - PROTECT.
- 04 EXISTING SEWAGE STATION TO REMAIN - PROTECT.
- 05 EXISTING FENCE TO REMAIN - PROTECT.
- 06 LOCATION OF EXISTING TRANSFORMER AND PAD- SEE ELECTRICAL SITE PLAN SHEET ES101.
- 07 EXISTING TELEPHONE TERMINAL RISER TO REMAIN - SEE ELECTRICAL SITE PLAN ES101.
- 08 EXISTING FIRE HYDRANT TO REMAIN - PROTECT.
- 09 EXISTING WATER LINE ACCESS COVER TO REMAIN - PROTECT.
- 10 EXISTING MAINTENANCE MANHOLE COVER TO REMAIN - PROTECT.
- 11 EXISTING SUMP TO REMAIN - PROTECT.
- 12 EXISTING BLOWOFF VALVE TO REMAIN - PROTECT.
- 13 EXISTING ASPHALT PAVING TO REMAIN - PROTECT.
- 14 EXISTING AIR UNIT TO REMAIN - PROTECT.
- 15 EXISTING LOW WALL TO REMAIN - PROTECT.
- 16 REMOVE PORTION OF EXISTING FENCE SHOWN DASHED.
- 17 EXISTING ELECTRICAL METER TO REMAIN - PROTECT
- 18 EXISTING STEAM LINE.
- 19 REMOVE EXISTING CONCRETE PAVING.
- 20 OWNER TO REMOVE EXISTING BUILDING.
- 21 OWNER TO REMOVE EXISTING STEPS.
- 22 REMOVE EXISTING ELECTRICAL METER - RELOCATE. SEE ELECTRICAL SITE PLAN SHEET ES101.
- 23 REMOVE EXISTING IRRIGATION RISER - CAP LINES.
- 24 REMOVE EXISTING POND - BACKFILL AS REQUIRED.
- 25 REMOVE EXISTING WATER VALVE - RELOCATE.
- 26 REMOVE EXISTING CONCRETE PAVING AND REPLACE FOR/ AFTER NEW FOOTING EXCAVATION/BACKFILL.



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PROJECT DESCRIPTION
ATE CENTER AT
UTAH STATE PRISON
VOCATIONAL
CLASSROOMS
DRAPER, UTAH

SHEET NAME:
EXISTING CONDITIONS /
DEMOLITION SITE PLAN

REVISIONS

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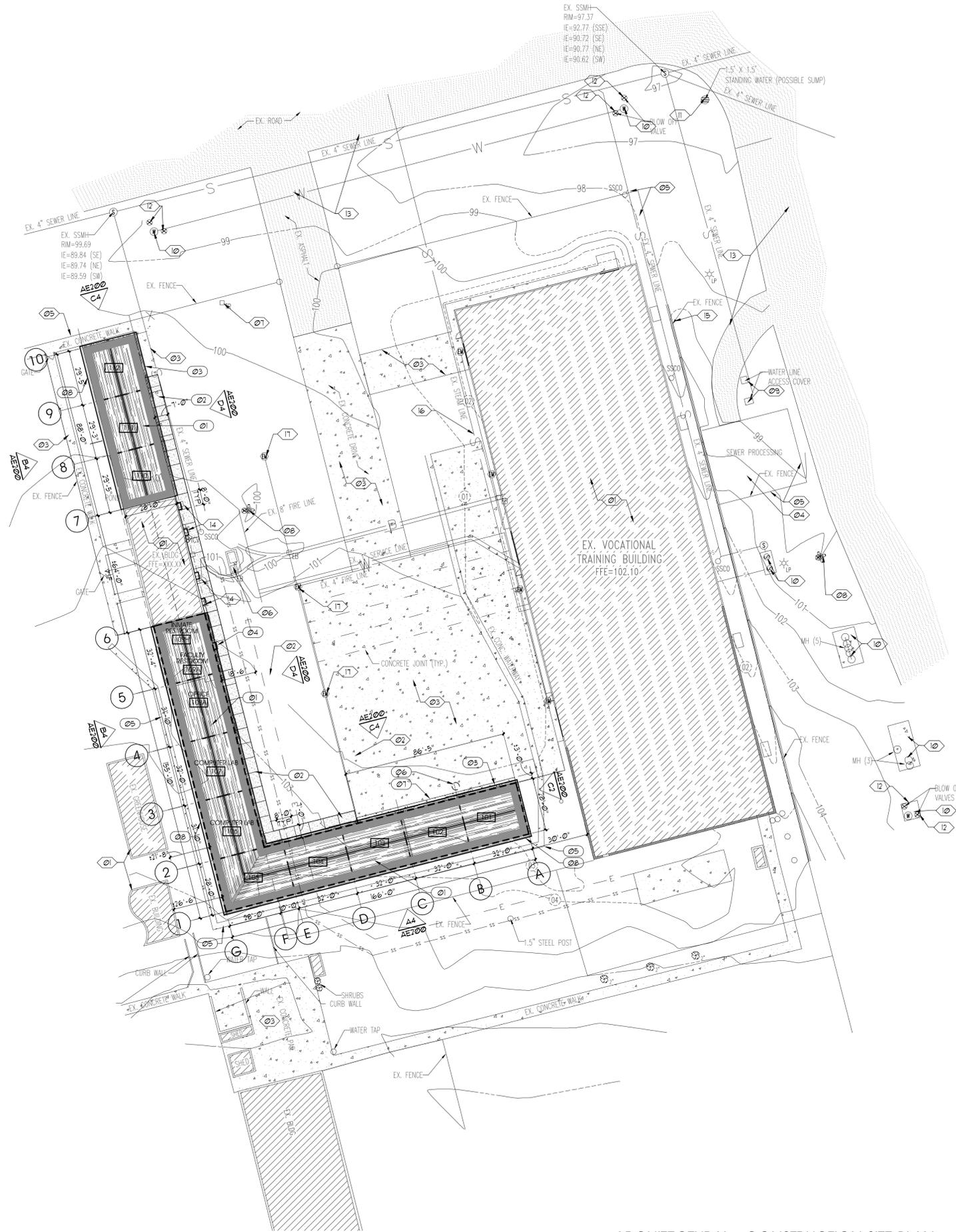
AS101

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B

A



GENERAL NOTES AND LEGEND:
FOR SHEET AS102 ONLY.

- SEE SHEET G1002 FOR GENERAL NOTES AND ALTERNATES.
- SEE COVER SHEET FOR DRAWING INDEX.
- DO NOT SCALE DRAWINGS.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE BEGINNING WORK AND SHALL REPORT TO THE ARCHITECT ANY ERRORS, INCONSISTENCIES OR OMISSIONS BEFORE BEGINNING WORK. SEE GENERAL NOTES AND SPECIFICATIONS.
- SEE ENLARGED PLANS FOR DIMENSIONS AND NOTES NOT SHOWN ON THIS OVERALL FLOOR PLAN.
- BASE BID:
ALL SITE WORK INCLUDING BUT NOT LIMITED TO: SITE IMPROVEMENTS AND INFRASTRUCTURE FOR UNDERGROUND UTILITIES AND CONCRETE SLABS, FOOTINGS, FOUNDATIONS AND DAMP-PROOFING, ALL UNDER-SLAB PLUMBING AND ELECTRICAL ROUGH-INS. ALL OTHER CONSTRUCTION INDICATED ON PLANS N.I.C. AT THIS TIME.
- ADD ALTERNATE #1:
COMPLETE CONSTRUCTION AS SPECIFIED HEREIN FOR THE ENTIRE RESTROOM PORTION OF THE BUILDING LOCATED BETWEEN GRIDS 5 & 6 AS SHOWN ON FLOOR PLANS

EXISTING / DEMO KEYED NOTE LEGEND:
FOR SHEET AS102 ONLY.

- 01 EXISTING BUILDING TO REMAIN.
- 02 EXISTING STORAGE CONTAINER TO REMAIN.
- 03 EXISTING CONCRETE PAVING TO REMAIN - PROTECT.
- 04 EXISTING SEWAGE STATION TO REMAIN - PROTECT.
- 05 EXISTING FENCE TO REMAIN - PROTECT.
- 06 LOCATION OF EXISTING TRANSFORMER AND PAD - SEE ELECTRICAL SITE PLAN SHEET ES101.
- 07 EXISTING TELEPHONE TERMINAL RIGER TO REMAIN - SEE ELECTRICAL SITE PLAN ES101.
- 08 EXISTING FIRE HYDRANT TO REMAIN - PROTECT.
- 09 EXISTING WATER LINE ACCESS COVER TO REMAIN - PROTECT.
- 10 EXISTING MAINTENANCE MANHOLE COVER TO REMAIN - PROTECT.
- 11 EXISTING SUMP TO REMAIN - PROTECT.
- 12 EXISTING BLOWOFF VALVE TO REMAIN - PROTECT.
- 13 EXISTING ASPHALT PAVING TO REMAIN - PROTECT.
- 14 EXISTING AIR UNIT TO REMAIN - PROTECT.
- 15 EXISTING LOW WALL TO REMAIN - PROTECT.
- 16 EXISTING STEAM LINE.
- 17 EXISTING ELECTRICAL METER TO REMAIN - PROTECT

KEYED NOTE LEGEND:
FOR SHEET AS102 ONLY.

- 01 NEW CLASSROOM BUILDING - SEE SHEET AE101 FOR FLOOR PLAN.
- 02 4\"/>

ARCHITECTAJC PROJECT # 0502



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PROJECT DESCRIPTION
**ATE CENTER AT
UTAH STATE PRISON
VOCATIONAL
CLASSROOMS**
DRAPER, UTAH

SHEET NAME:
**ARCHITECTURAL -
CONSTRUCTION
SITE PLAN**

REVISIONS
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AS102

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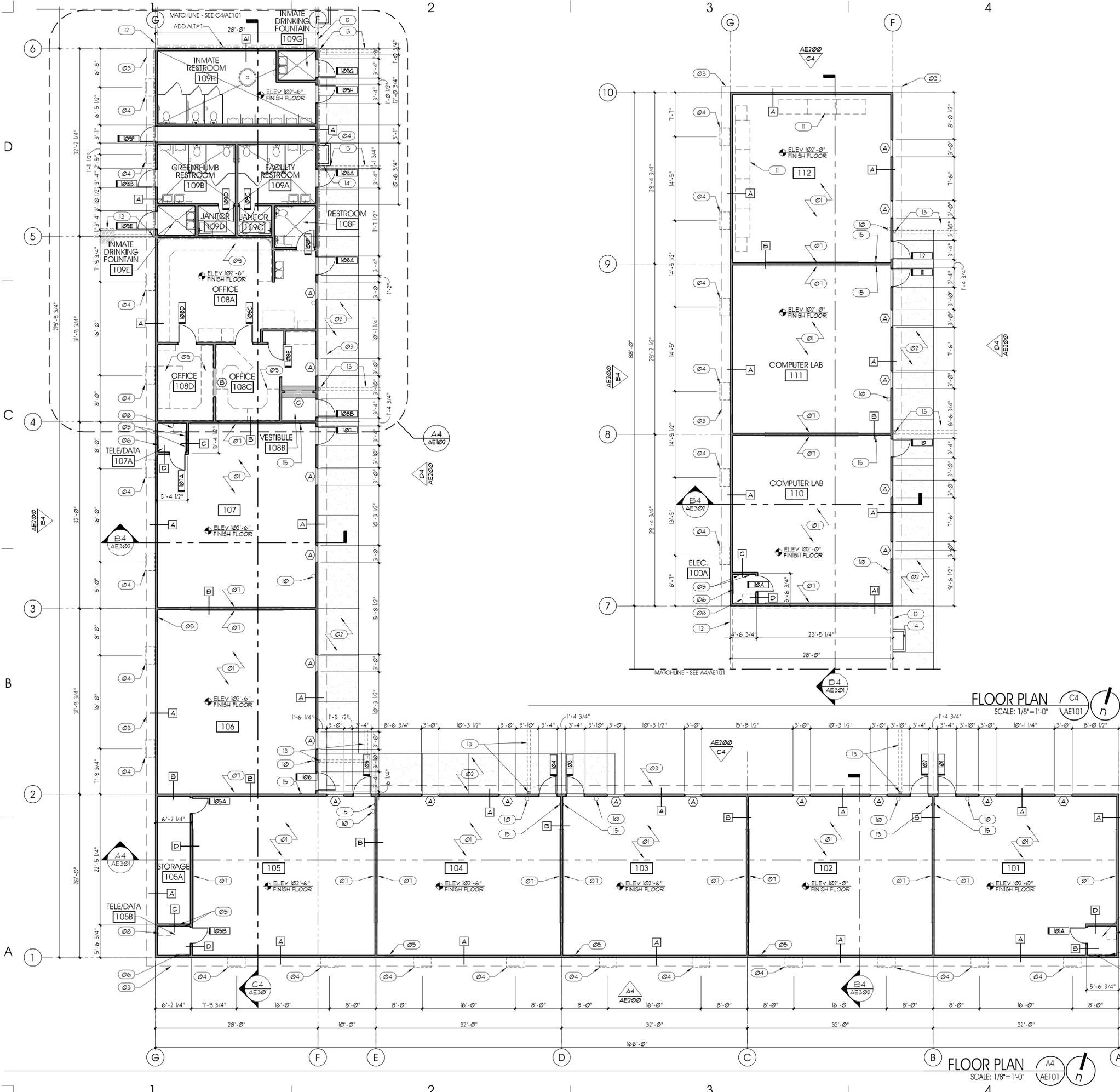
1

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5



GENERAL NOTES AND LEGEND:
FOR SHEET AE101 ONLY.

- SEE SHEET G1002 FOR GENERAL NOTES AND ALTERNATES.
- SEE COVER SHEET FOR DRAWING INDEX.
- DO NOT SCALE DRAWINGS.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE BEGINNING WORK AND SHALL REPORT TO THE ARCHITECT ANY ERRORS, INCONSISTENCIES OR OMISSIONS BEFORE BEGINNING WORK. SEE GENERAL NOTES AND SPECIFICATIONS.
- PROVIDE REQUIRED SOLID BLOCKING FOR ALL RESTROOM ACCESSORIES AS REQUIRED.
- SEE FINISH PLAN SHEET AE105 FOR CONC. SLAB ON GRADE CONTROL AND EXPANSION JOINT LOCATIONS.
- BASE BID: ALL SITE WORK INCLUDING, BUT NOT LIMITED TO: SITE IMPROVEMENTS AND INFRASTRUCTURE, ALL EXCAVATION FOR UNDERGROUND UTILITIES AND CONCRETE SLABS, FOOTINGS, FOUNDATIONS AND DAMP-PROOFING, ALL UNDER-SLAB PLUMBING AND ELECTRICAL ROUGH-INS. ALL OTHER CONSTRUCTION INDICATED ON PLANS N.I.C. AT THIS TIME.
- ADD ALTERNATE #1: - - - - - (CONSTRUCTION LIMIT LINE) COMPLETE CONSTRUCTION AS SPECIFIED HEREIN FOR THE ENTIRE RESTROOM PORTION OF THE BUILDING LOCATED BETWEEN GRIDS 5 & 6 AS SHOWN ON FLOOR PLANS

KEYED NOTE LEGEND:
FOR SHEETS AE101 ONLY.

- 01 SEALED CONCRETE SLAB ON GRADE - SEE STRUCTURAL DRAWINGS AND FINISH FLOOR PLANS.
- 02 CONCRETE WALK - SEE CIVIL DRAWINGS AND ARCHITECTURAL CONSTRUCTION SITE PLAN A510.
- 03 LINE OF ROOF OVERHANG - SEE ROOF PLAN.
- 04 WALL MOUNTED ELECTRIC HVAC UNIT - SEE ELECTRICAL DRAWINGS. PROVIDE REQUIRED ROUGH OPENING AND SOLID BLOCKING.
- 05 ELECTRICAL PANEL - PAINTED. SEE ELECTRICAL DRAWINGS.
- 06 PHONE TERMINAL ENCLOSED IN SECURE SEMI-RECESSED BOX - SEE ELECTRICAL DRAWINGS.
- 07 16"x4" MARKERBOARD WITH TRAY.
- 08 SERVER TO BE PROVIDED AND INSTALLED BY OWNER (N.I.C.).
- 09 MILLWORK SHOWN DASHED TO BE PROVIDED AND INSTALLED BY OWNER (N.I.C.).
- 10 FIRE EXTINGUISHER - G.C. TO COORDINATE EXACT LOCATION WITH OFFICIAL HAVING JURISDICTION.
- 11 WORKSTATION/FURNITURE SHOWN DASHED TO BE PROVIDED AND INSTALLED BY OWNER (N.I.C.).
- 12 EXISTING CLASSROOM BUILDING TO REMAIN - PROTECT. REMOVE EXISTING EXTERIOR SIDING AND BUILDING WRAP. REMOVE ROOF OVERHANG AT ENDWALLS AS REQUIRED. CONNECT NEW ROOF TO EXISTING ROOF IN ONE CONTINUOUS PLANE FOR SEAMLESS APPEARANCE.
- 13 DOWNSPOUT PIPED UNDER SIDEWALK TO GRAVEL SUMP. SEE ROOF PLAN FOR DOWNSPOUT/GUTTER LOCATIONS.
- 14 6" CONCRETE CURB BELOW HVAC UNIT.
- 15 OCCUPANT LIMIT SIGN (45 MAX. OCCUPANTS PER CLASSROOM). SEE SIGN NOTES ON AE601.

ARCHITECTA/C PROJECT # 0502



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PROJECT DESCRIPTION
**ATE CENTER AT
UTAH STATE PRISON
VOCATIONAL
CLASSROOMS**

DRAPER, UTAH

SHEET NAME:
FLOOR PLANS

REVISIONS

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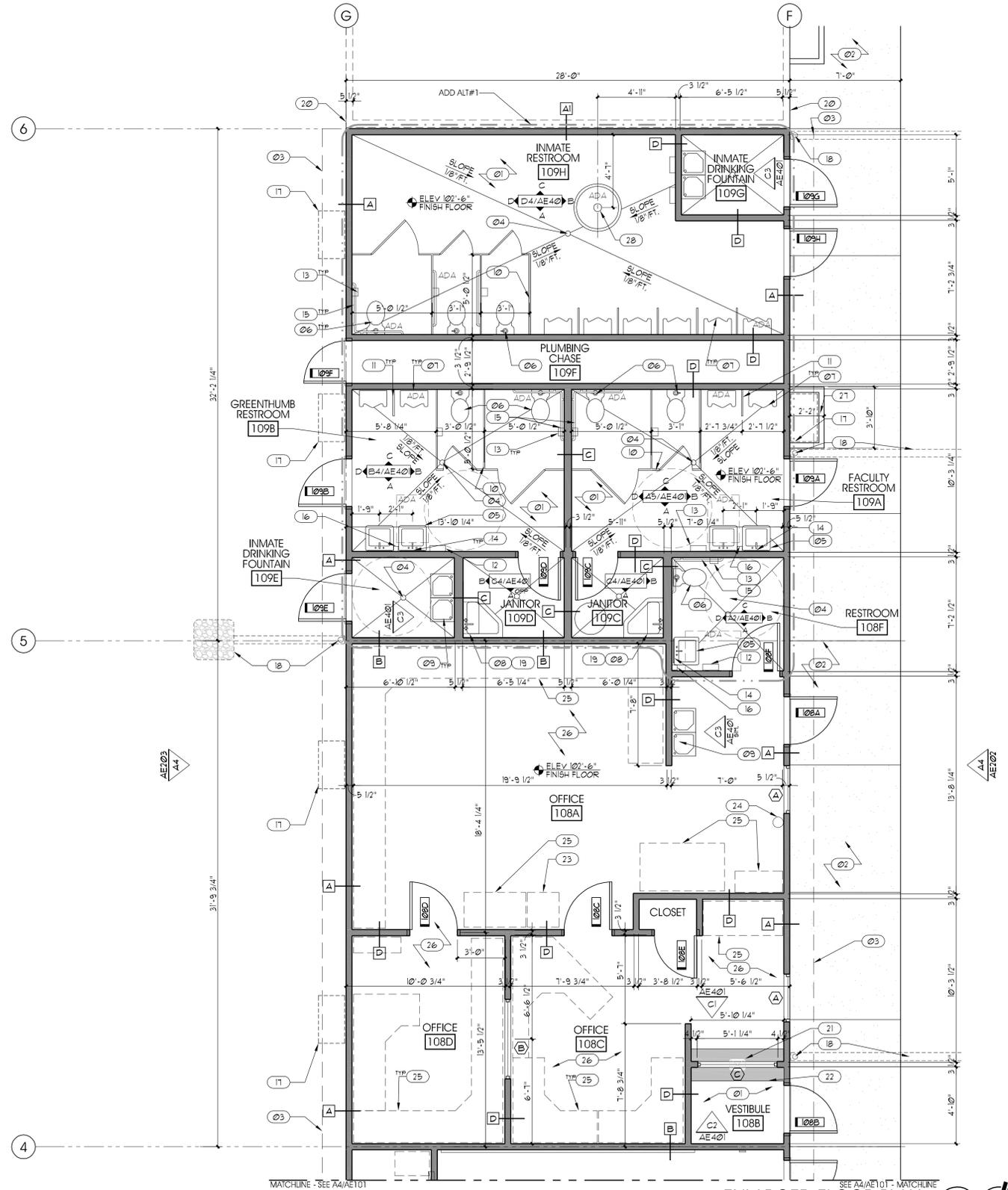
AE101

GENERAL NOTES AND LEGEND:
FOR SHEET AE102 ONLY.

- SEE SHEET G1002 FOR GENERAL NOTES AND ALTERNATES.
- SEE COVER SHEET FOR DRAWING INDEX.
- DO NOT SCALE DRAWINGS.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE BEGINNING WORK AND SHALL REPORT TO THE ARCHITECT ANY ERRORS, INCONSISTENCIES OR OMISSIONS BEFORE BEGINNING WORK. SEE GENERAL NOTES AND SPECIFICATIONS.
- PROVIDE REQUIRED SOLID BLOCKING FOR ALL RESTROOM ACCESSORIES AS REQUIRED.
- SEE FINISH PLAN SHEET AE105 FOR CONC. SLAB ON GRADE CONTROL AND EXPANSION JOINT LOCATIONS.
- BASE BID:
ALL SITE WORK INCLUDING, BUT NOT LIMITED TO: SITE IMPROVEMENTS AND INFRASTRUCTURE, ALL EXCAVATION FOR UNDERGROUND UTILITIES AND CONCRETE SLABS, FOOTINGS, FOUNDATIONS AND DAMP-PROOFING, ALL UNDER-SLAB PLUMBING AND ELECTRICAL ROUGH-INS. ALL OTHER CONSTRUCTION INDICATED ON PLANS N.I.C. AT THIS TIME.
- ADD ALTERNATE #1: - - - - - (CONSTRUCTION LIMIT LINE)
COMPLETE CONSTRUCTION AS SPECIFIED HEREIN FOR THE ENTIRE RESTROOM PORTION OF THE BUILDING LOCATED BETWEEN GRIDS 5 & 6 AS SHOWN ON FLOOR PLANS

KEYED NOTE LEGEND:
FOR SHEETS AE102 ONLY.

- ① SEALED CONCRETE SLAB ON GRADE - SEE STRUCTURAL DRAWINGS AND FINISH FLOOR PLANS.
- ② CONCRETE WALK - SEE CIVIL DRAWINGS AND ARCHITECTURAL CONSTRUCTION SITE PLAN A501.
- ③ LINE OF ROOF OVERHANG - SEE ROOF PLAN.
- ④ FLOOR DRAIN - SEE PLUMBING DRAWINGS.
- ⑤ LAVATORY - SEE PLUMBING DRAWINGS.
- ⑥ WATER CLOSET - SEE PLUMBING DRAWINGS.
- ⑦ URINAL - SEE PLUMBING DRAWINGS.
- ⑧ FLOOR SINK - SEE PLUMBING DRAWINGS.
- ⑨ ELECTRIC WATER COOLER - SEE PLUMBING DRAWINGS.
- ⑩ TOILET COMPARTMENTS - SEE ACCESSORY SCHEDULE.
- ⑪ URINAL SCREEN - SEE ACCESSORY SCHEDULE.
- ⑫ TOILET DISPENSER - SEE ACCESSORY SCHEDULE.
- ⑬ TOILET PAPER DISPENSER - SEE ACCESSORY SCHEDULE.
- ⑭ MIRROR - SEE ACCESSORY SCHEDULE.
- ⑮ GRAB BARS - SEE ACCESSORY SCHEDULE.
- ⑯ SOAP DISPENSER - SEE ACCESSORY SCHEDULE.
- ⑰ WALL MOUNTED ELECTRIC HVAC UNIT - SEE ELECTRICAL DRAWINGS. PROVIDE REQUIRED SOLID BLOCKING.
- ⑱ DOWNSPOUT INTO CAST IRON DRAIN BOOT AND BENEATH SIDEWALK W/ CAST IRON PIPE TO GRAVEL SUMP (30" x 30" x 36"). SEE ROOF PLAN FOR DOWNSPOUT/GUTTER LOCATIONS.
- ⑲ MOP RACK - SEE INTERIOR ELEVATIONS.
- ⑳ EXISTING CLASSROOM BUILDING TO REMAIN - PROTECT. REMOVE EXISTING EXTERIOR SIDING AND BUILDING WRAP. REMOVE ROOF OVERHANG AT ENDWALLS AS REQUIRED. CONNECT NEW ROOF TO EXISTING ROOF IN ONE CONTINUOUS PLANE FOR SEAMLESS APPEARANCE.
- ㉑ TRANSACTION TRAY/COMMUNICATION PORT - SEE INTERIOR ELEVATIONS.
- ㉒ MILLWORK SHOWN DASHED TO BE PROVIDED AND INSTALLED BY OWNER (N.I.C.).
- ㉓ REFRIGERATOR (N.I.C.) - SEE ELECTRICAL AND PLUMBING DRAWINGS.
- ㉔ FIRE EXTINGUISHER - G.C. TO COORDINATE EXACT LOCATION WITH OFFICIAL HAVING JURISDICTION.
- ㉕ WORKSTATION FURNITURE SHOWN DASHED TO BE PROVIDED AND INSTALLED BY OWNER (N.I.C.).
- ㉖ SEALED CONCRETE SLAB - COLOR BY OWNER.
- ㉗ 6" CONCRETE CURB.
- ㉘ WASHFOUNTAIN - SEE PLUMBING DRAWINGS.



ENLARGED FLOOR PLAN
SCALE: 1/4"=1'-0"
A4
AE102



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PROJECT DESCRIPTION
**ATE CENTER AT
UTAH STATE PRISON
VOCATIONAL
CLASSROOMS**

DRAPER, UTAH

SHEET NAME:
ENLARGED FLOOR PLAN

REVISIONS

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AE102



GENERAL NOTES AND LEGEND:
FOR SHEET AE103 ONLY.

- SEE SHEET G1002 FOR GENERAL NOTES AND ALTERNATES.
- SEE COVER SHEET FOR DRAWING INDEX.
- DO NOT SCALE DRAWINGS.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE BEGINNING WORK AND SHALL REPORT TO THE ARCHITECT ANY ERRORS, INCONSISTENCIES OR OMISSIONS BEFORE BEGINNING WORK. SEE GENERAL NOTES AND SPECIFICATIONS.
- BASE BID:
ALL SITE WORK INCLUDING, BUT NOT LIMITED TO: SITE IMPROVEMENTS AND INFRASTRUCTURE, ALL EXCAVATION FOR UNDERGROUND UTILITIES AND CONCRETE SLABS, FOOTINGS, FOUNDATIONS AND DAMP-PROOFING, ALL UNDER-SLAB PLUMBING AND ELECTRICAL ROUGH-INS. ALL OTHER CONSTRUCTION INDICATED ON PLANS NIC AT THIS TIME.
- ADD ALTERNATE #1: --- (CONSTRUCTION LIMIT LINE)
COMPLETE CONSTRUCTION AS SPECIFIED HEREIN FOR THE ENTIRE RESTROOM PORTION OF THE BUILDING LOCATED BETWEEN GRIDS 5 & 6 AS SHOWN ON FLOOR PLANS

SUSPENDED ACOUSTICAL CEILING PANELS - SEE FINISH SCHEDULE AE601 & DETAIL D4/AE302	
PREFINISHED STL. SOFFIT PANELS, PERFORATED FOR REQUIRED VENTILATION.	
PAINTED 1/2" GYPSUM BOARD CEILING FINISH - SEE FINISH SCHEDULE AE601 & DETAIL D4/AE302	
RECESSED LIGHT FIXTURE - SEE ELECTRICAL DRAWINGS	
CEILING MTD. LIGHT FIXTURE - SEE ELECTRICAL DRAWINGS	
WALL MTD. LIGHT FIXTURE - SEE ELECTRICAL DRAWINGS	
EXT. WALL MTD. LIGHT FIXTURE - SEE ELECTRICAL DRAWINGS	
EXIT SIGN - SEE ELECTRICAL DRAWINGS	
EXHAUST FAN - SEE ELECTRICAL DRAWINGS	
CONTINUOUS 4" SOFFIT VENT W/ BUG SCREEN.	

ARCHITECTA/C PROJECT # 0502

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CLASSROOMS**
DRAPER, UTAH

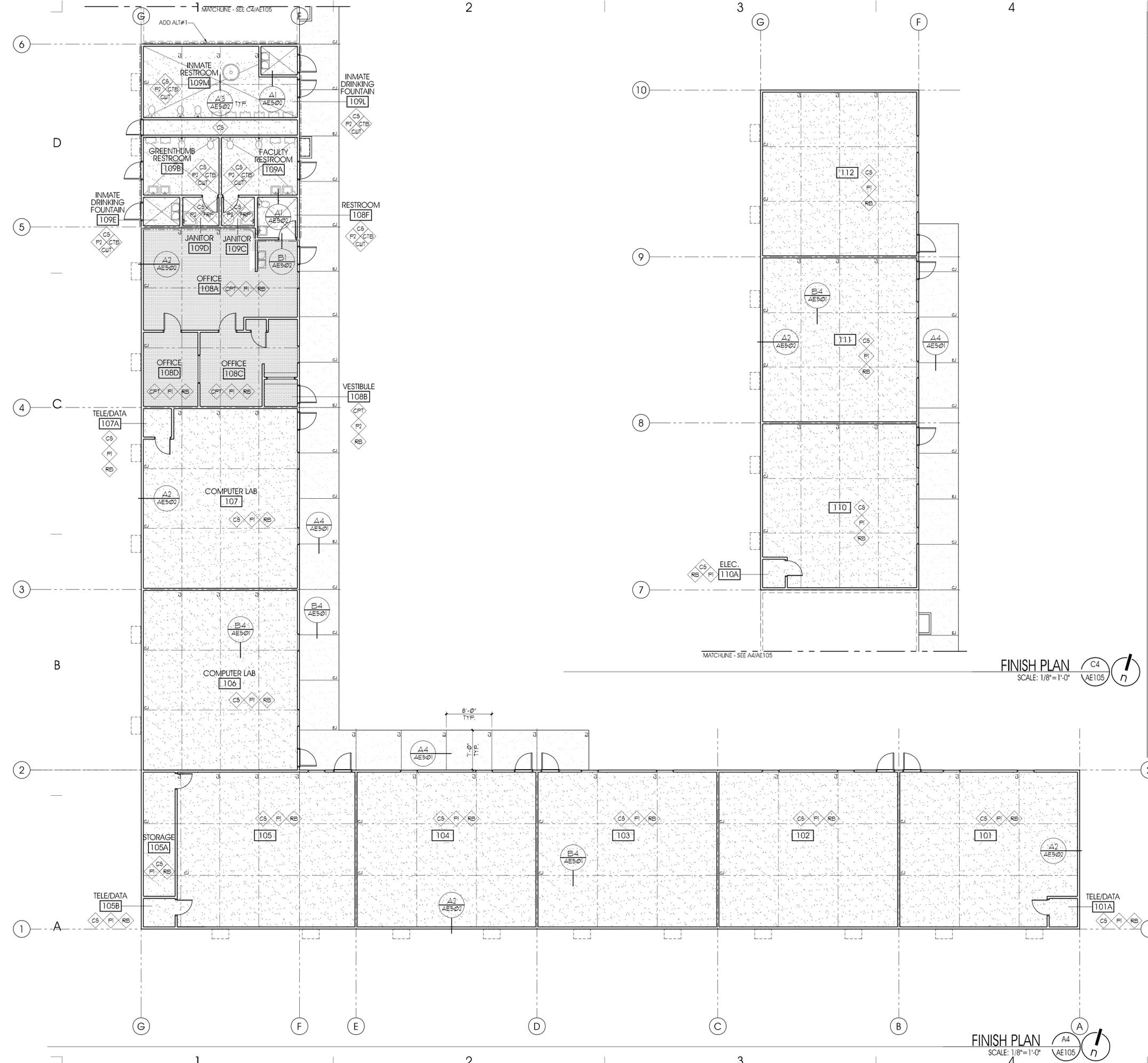
SHEET NAME:
B REFLECTED CEILING PLANS

REVISIONS

MARK	DATE	DESCRIPTION

ISSUE DATA
ISSUE DATE: JUNE 2006
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SHEET NUMBER:
AE103



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

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

GENERAL NOTES AND LEGEND:
FOR SHEET AE105 ONLY.

- SEE SHEET G1002 FOR GENERAL NOTES AND ALTERNATES.
- SEE COVER SHEET FOR DRAWING INDEX.
- DO NOT SCALE DRAWINGS.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE BEGINNING WORK AND SHALL REPORT TO THE ARCHITECT ANY ERRORS, INCONSISTENCIES OR OMISSIONS BEFORE BEGINNING WORK. SEE GENERAL NOTES AND SPECIFICATIONS.
- BASE BID: ALL SITE WORK INCLUDING, BUT NOT LIMITED TO, SITE IMPROVEMENTS AND INFRASTRUCTURE, ALL EXCAVATION FOR UNDERGROUND UTILITIES AND CONCRETE SLABS, FOOTINGS, FOUNDATIONS AND DAMP-PROOFING, ALL UNDER-SLAB PLUMBING AND ELECTRICAL ROUGH-INS. ALL OTHER CONSTRUCTION INDICATED ON PLANS N/C AT THIS TIME.
- ADD ALTERNATE #1: (CONSTRUCTION LIMIT LINE) COMPLETE CONSTRUCTION AS SPECIFIED HEREIN FOR THE ENTIRE RESTROOM PORTION OF THE BUILDING LOCATED BETWEEN GRIDS 5 & 6 AS SHOWN ON FLOOR PLANS

FLOOR FINISH: CARPET TILES OVER SEALED CONCRETE - SEE FINISH SCHEDULE THIS SHEET	
FLOOR FINISH: SEALED CONCRETE - SEE FINISH SCHEDULE THIS SHEET.	
CONTROL JOINT IN CONCRETE - SEE STRUCTURAL DRAWINGS	
EXPANSION JOINT IN CONCRETE - SEE STRUCTURAL DRAWINGS	

INTERIOR FINISH LEGEND

SYMBOL	FINISH	NOTE
FLOOR		
	EXPOSED CONCRETE, SEALED	SEE SPEC.
	CARPET TILES	SEE SPEC.
BASE		
	4" RUBBER BASE	ROPPE P-100 BLACK OR EQUAL
	CERAMIC TILE BASE - (4"x4") W/ SANITARY COVE	DAL TILE Ø100 WHITE OR EQUAL
WALLS		
	GYP-SUM BOARD, PAINTED	SEE SPEC.
	WR. GYP-SUM BOARD, PAINTED W/ EPOXY PAINT	SEE SPEC.
	FRP PANELS TO 48" AFF W/ EPOXY PAINT ABOVE.	SEE SPEC.
	CERAMIC WALL TILE TO 48" AFF W/ BULLNOSED EDGE TYP.	SEE SPEC.
CEILING		
	GYP-SUM BOARD, PAINTED	SEE SPEC.
	GYP-SUM BOARD, PAINTED W/ EPOXY PAINT	SEE SPEC.
	SUSPENDED ACOUSTICAL PANELS	SEE SPEC.

ROOM FINISH NOTES:

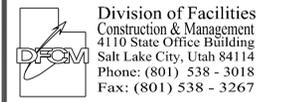
- PROVIDE FRP PANELS TO HEIGHT OF 4'-0" AFF. AT WET WALLS AND AS SHOWN ON INTERIOR ELEVATIONS (EXCEPT AT TOILET ROOMS).
- CERAMIC WALL TILE (CTW) SHALL BE TO 4'-0" AFF UNO. PAINT WALL FROM TOP OF TILE TO CEILING W/ EPOXY PAINT.
- PROVIDE CEMENTITIOUS BACKER BOARD @ ALL CERAMIC TILE & FRP AREAS.
- ALL RESTROOMS TO RECEIVE EPOXY PAINT.
- ALL COLORS TO BE SELECTED BY OWNER.
- ALL FLOOR TILE TO BE SLIP RESISTANT.

ARCHITECT/JC PROJECT # 0502



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OWNER INFORMATION
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Department of Administrative Services



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Fax: (801) 538 - 3267

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

PROJECT DESCRIPTION
**ATE CENTER AT
UTAH STATE PRISON
VOCATIONAL
CLASSROOMS**

DRAPER, UTAH

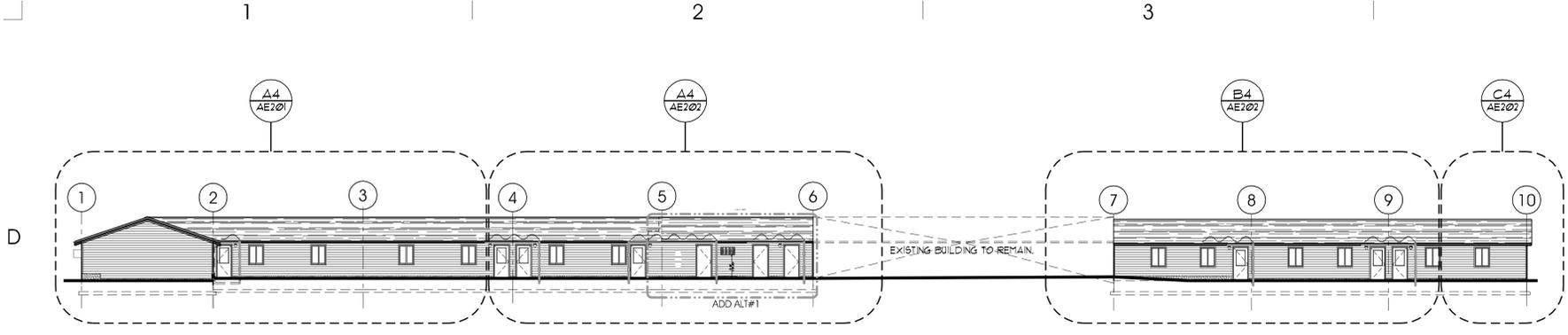
SHEET NAME:
FINISH PLAN & SCHEDULE

REVISIONS
MARK DATE DESCRIPTION

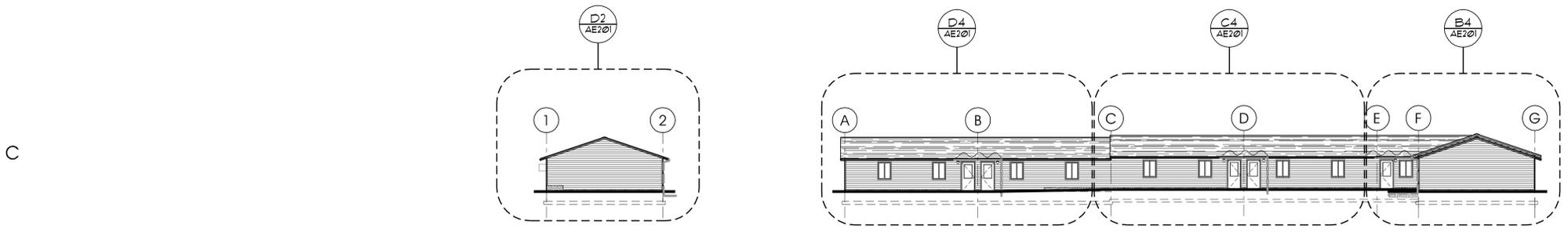
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SHEET NUMBER:

AE105

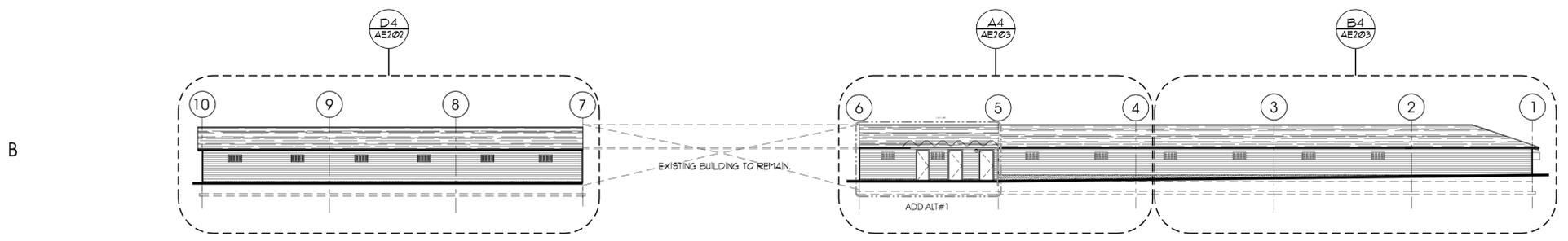


OVERALL SOUTH EXTERIOR ELEVATION
SCALE: 1/16"=1'-0"
D4 AE200

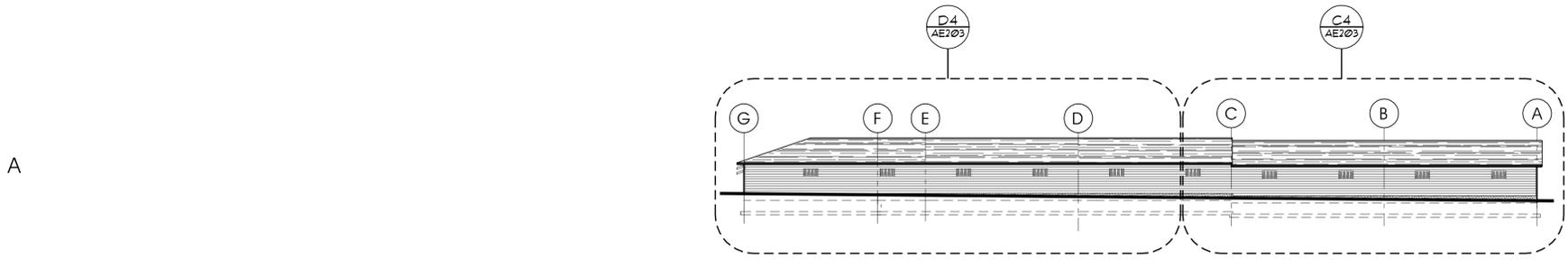


OVERALL EXTERIOR ELEVATION
SCALE: 1/16"=1'-0"
C2 AE200

OVERALL EXTERIOR ELEVATION
SCALE: 1/16"=1'-0"
C4 AE200



OVERALL EXTERIOR ELEVATION
SCALE: 1/16"=1'-0"
B4 AE200



OVERALL EXTERIOR ELEVATION
SCALE: 1/16"=1'-0"
A4 AE200

GENERAL NOTES AND LEGEND:
FOR SHEET AE200 ONLY.

- SEE SHEET G1002 FOR GENERAL NOTES AND ALTERNATES.
- SEE COVER SHEET FOR DRAWING INDEX.
- DO NOT SCALE DRAWINGS.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE BEGINNING WORK AND SHALL REPORT TO THE ARCHITECT ANY ERRORS, INCONSISTENCIES OR OMISSIONS BEFORE BEGINNING WORK. SEE GENERAL NOTES AND SPECIFICATIONS.
- SEE SHEETS AE201 THROUGH AE203 FOR ENLARGED ELEVATIONS.
- BASE BID:
ALL SITE WORK, INCLUDING, BUT NOT LIMITED TO: SITE IMPROVEMENTS AND INFRASTRUCTURE, ALL EXCAVATION FOR UNDERGROUND UTILITIES AND CONCRETE SLABS, FOOTINGS, FOUNDATIONS AND DAMP-PROOFING, ALL UNDER-SLAB PLUMBING AND ELECTRICAL ROUGH-INS. ALL OTHER CONSTRUCTION INDICATED ON PLANS N.I.C. AT THIS TIME.
- ADD ALTERNATE #1: --- (CONSTRUCTION LIMIT LINE)
COMPLETE CONSTRUCTION AS SPECIFIED HEREIN FOR THE ENTIRE RESTROOM PORTION OF THE BUILDING LOCATED BETWEEN GRIDS 5 & 6 AS SHOWN ON FLOOR PLANS

ARCHITECTAIC PROJECT # 0502



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PROJECT DESCRIPTION

**ATE CENTER AT
UTAH STATE PRISON
VOCATIONAL
CLASSROOMS**

DRAPER, UTAH

SHEET NAME:

OVERALL
EXTERIOR ELEVATIONS

REVISIONS

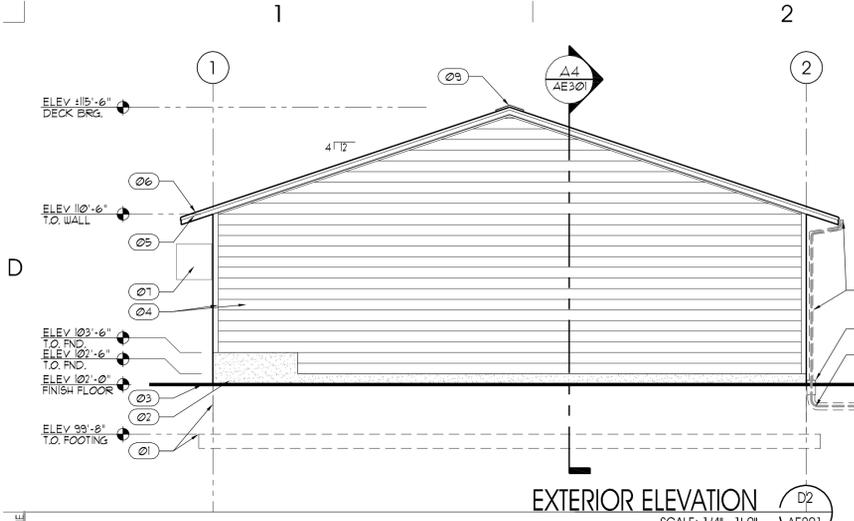
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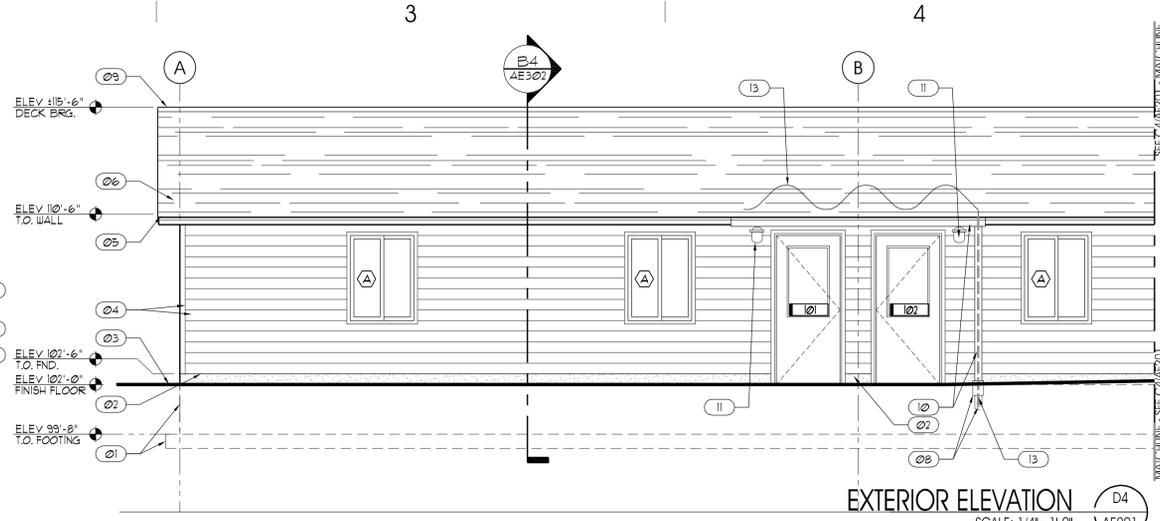
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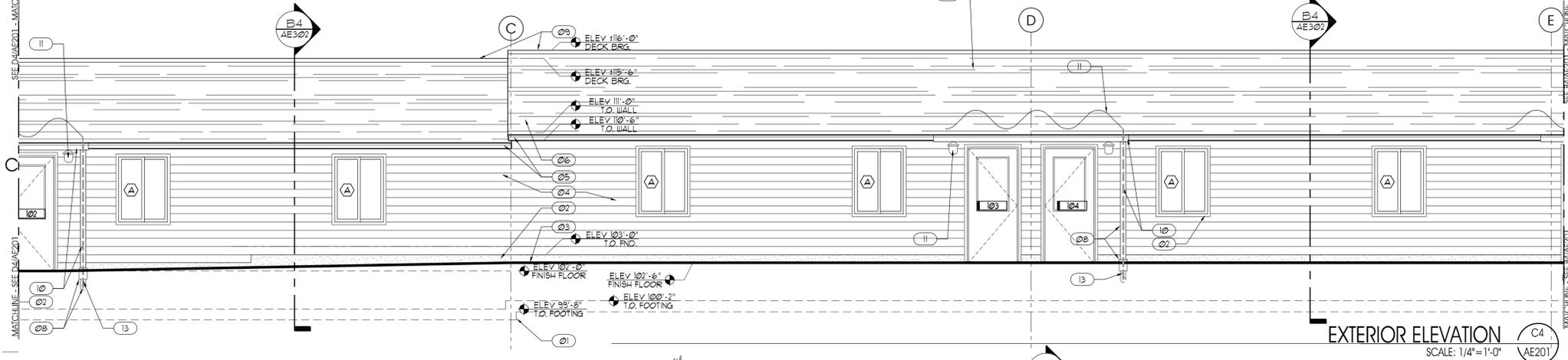
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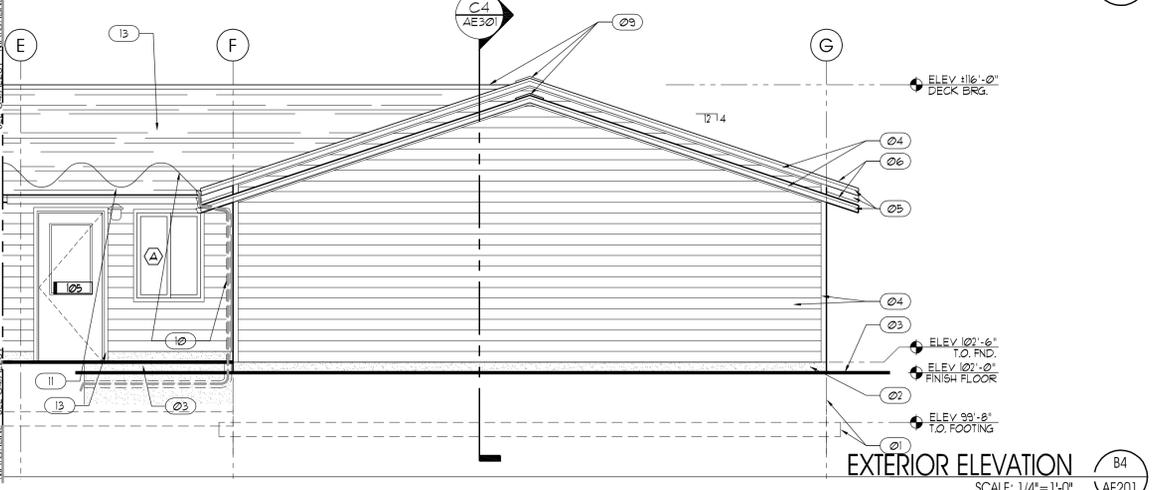
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SCALE: 1/4"=1'-0"
D2 AE201



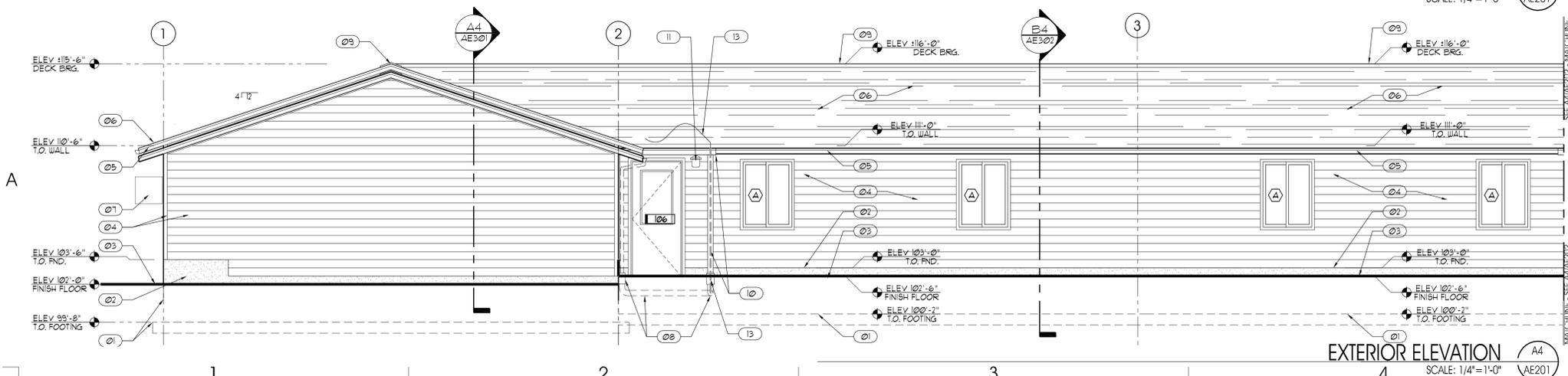
EXTERIOR ELEVATION
SCALE: 1/4"=1'-0"
D4 AE201



EXTERIOR ELEVATION
SCALE: 1/4"=1'-0"
C4 AE201



EXTERIOR ELEVATION
SCALE: 1/4"=1'-0"
B4 AE201



EXTERIOR ELEVATION
SCALE: 1/4"=1'-0"
A4 AE201

GENERAL NOTES AND LEGEND:
*FOR SHEET AE201 ONLY.

- SEE SHEET G1002 FOR GENERAL NOTES AND ALTERNATES.
- SEE COVER SHEET FOR DRAWING INDEX.
- DO NOT SCALE DRAWINGS.
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- ARCHITECTURAL FINISH FLOOR ELEVATION 100'-0" + 10/165' SITE ELEVATION
- BASE BID:
ALL SITE WORK INCLUDING BUT NOT LIMITED TO: SITE IMPROVEMENTS AND INFRASTRUCTURE, ALL EXCAVATION FOR UNDERGROUND UTILITIES AND CONCRETE SLABS, FOOTINGS, FOUNDATIONS AND DAMP-PROOFING, ALL UNDER-SLAB PLUMBING AND ELECTRICAL ROUGH-INS. ALL OTHER CONSTRUCTION INDICATED ON PLANS NIC AT THIS TIME.
- ADD ALTERNATE #1: - - - - - (CONSTRUCTION LIMIT LINE)
COMPLETE CONSTRUCTION AS SPECIFIED HEREIN FOR THE ENTIRE RESTROOM PORTION OF THE BUILDING LOCATED BETWEEN GRIDS 5 & 6 AS SHOWN ON FLOOR PLANS

KEYED NOTE LEGEND:
*FOR SHEETS AE201, AE202 AND AE203 ONLY.

- 01 LINE OF CONCRETE FOOTING AND FOUNDATION - SEE STRUCTURAL DRAWINGS.
- 02 EXPOSED FOUNDATION WALL TYP. - SEE STRUCTURAL DRAWINGS.
- 03 CONCRETE WALK / FINISHED GRADE TO SLOPE AWAY FROM BUILDING - SEE CIVIL DRAWINGS AND ARCHITECTURAL CONSTRUCTION SITE PLAN AS101.
- 04 VINYL SIDING AND TRIM - SEE FINISH SCHEDULE.
- 05 PREFINISHED GALV. STL. FASCIA AND DRIP FLASHING - SEE FINISH SCHEDULE. COLOR AS SELECTED BY OWNER.
- 06 ARCHITECTURAL GRADE ASPHALT SHINGLES - SEE ROOF PLAN.
- 07 WALL MOUNTED HVAC UNIT - SEE MECHANICAL DRAWINGS.
- 08 CAST IRON DRAIN BOOT AND PIPE.
- 09 RIDGE VENT CONTINUOUS - SEE ROOF PLAN.
- 10 PREFINISHED GALV. STL. GUTTER AND DOWNSPOUT. COLOR AS SELECTED BY OWNER. DOWNSPOUT PIPED UNDER SIDEWALK TO GRAVEL SUMP. SEE FLOOR PLAN FOR SUMP LOCATIONS.
- 11 LIGHT FIXTURE - SEE ELECTRICAL DRAWINGS.
- 12 EXISTING MODULAR BUILDING TO REMAIN. PROTECT DURING ALL PHASES OF CONSTRUCTION.
- 13 HEAT TAPE ON ROOF ABV. GUTTERS AND INTO DOWNSPOUTS AND THROUGH CAST IRON DRAIN PIPE UNDER SIDEWALK - SEE ELECTRICAL DRAWINGS.
- 14 6" CONCRETE CURB - SEE FLOOR PLAN FOR DIMENSIONS.

ARCHITECTA/JC PROJECT # 0502



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PROJECT DESCRIPTION
**ATE CENTER AT
UTAH STATE PRISON
VOCATIONAL
CLASSROOMS**

DRAPER, UTAH

SHEET NAME:
B EXTERIOR ELEVATIONS

REVISIONS

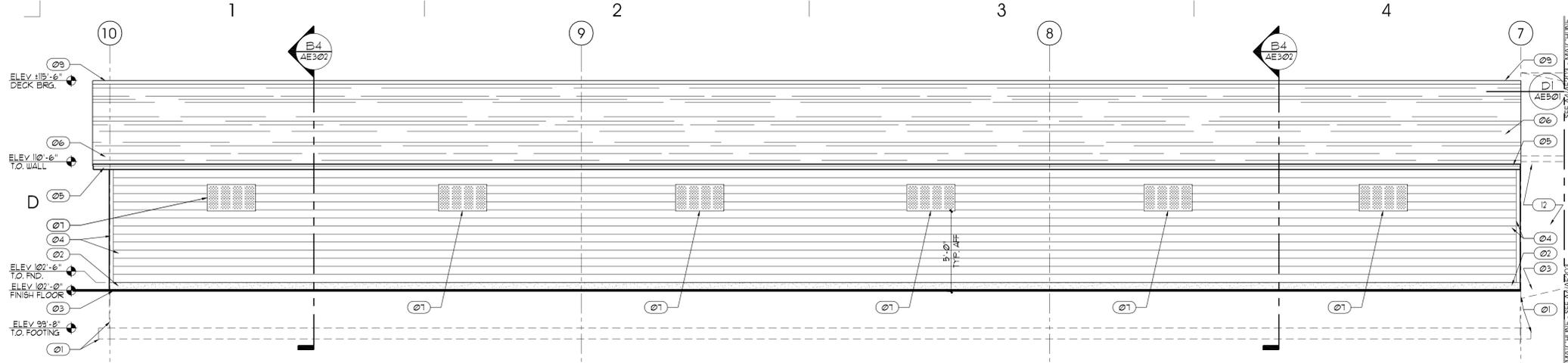
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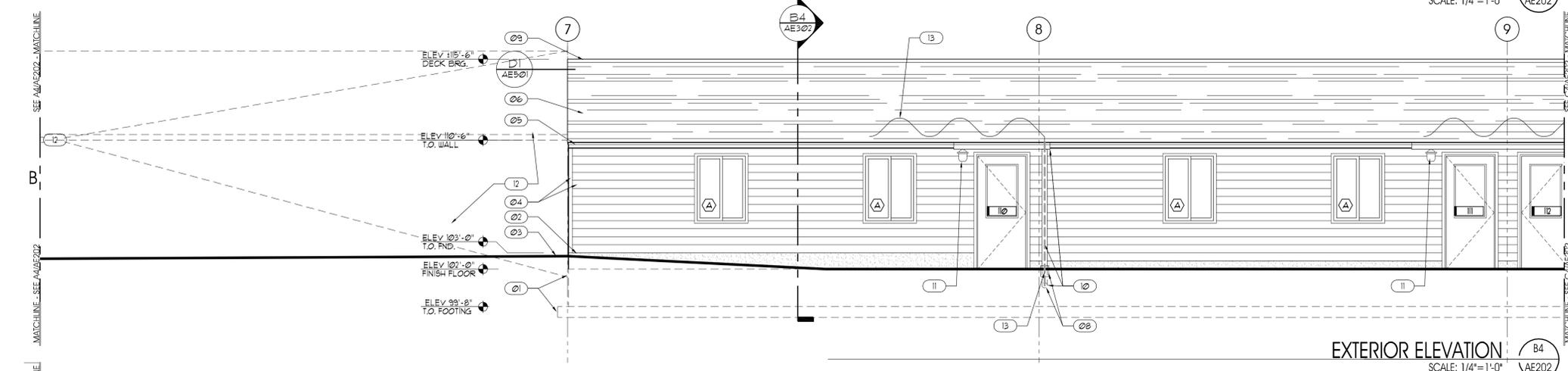
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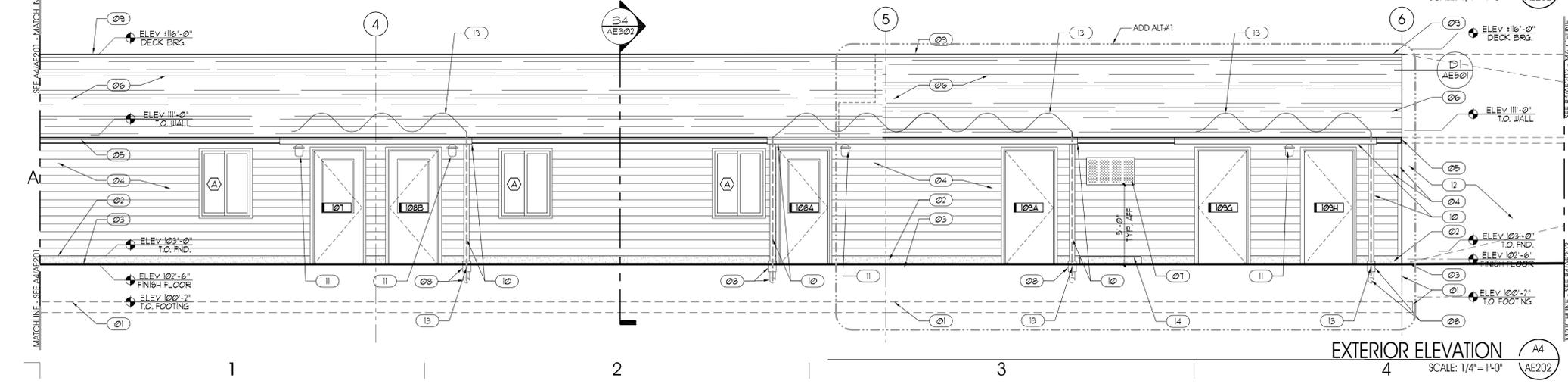
EXTERIOR ELEVATION
SCALE: 1/4"=1'-0"
D4
AE202



EXTERIOR ELEVATION
SCALE: 1/4"=1'-0"
C4
AE202



EXTERIOR ELEVATION
SCALE: 1/4"=1'-0"
B4
AE202



EXTERIOR ELEVATION
SCALE: 1/4"=1'-0"
A4
AE202

GENERAL NOTES AND LEGEND:
FOR SHEET AE202 ONLY.

- SEE SHEET G1002 FOR GENERAL NOTES AND ALTERNATES.
- SEE COVER SHEET FOR DRAWING INDEX.
- DO NOT SCALE DRAWINGS.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE BEGINNING WORK AND SHALL REPORT TO THE ARCHITECT ANY ERRORS, INCONSISTENCIES OR OMISSIONS BEFORE BEGINNING WORK. SEE GENERAL NOTES AND SPECIFICATIONS.
- ARCHITECTURAL FINISH FLOOR ELEVATION 100'-0" + 10'65" SITE ELEVATION
- BASE BID:
ALL SITE WORK INCLUDING BUT NOT LIMITED TO: SITE IMPROVEMENTS AND INFRASTRUCTURE, ALL EXCAVATION FOR UNDERGROUND UTILITIES AND CONCRETE SLABS, FOOTINGS, FOUNDATIONS AND DAMP-PROOFING, ALL UNDER-SLAB PLUMBING AND ELECTRICAL ROUGH-INS. ALL OTHER CONSTRUCTION INDICATED ON PLANS NOT AT THIS TIME.
- ADD ALTERNATE #1: - - - - - (CONSTRUCTION LIMIT LINE)
COMPLETE CONSTRUCTION AS SPECIFIED HEREIN FOR THE ENTIRE RESTROOM PORTION OF THE BUILDING LOCATED BETWEEN GRIDS 5 & 6 AS SHOWN ON FLOOR PLANS

KEYED NOTE LEGEND:
FOR SHEETS AE201, AE202 AND AE203 ONLY.

- ① LINE OF CONCRETE FOOTING AND FOUNDATION - SEE STRUCTURAL DRAWINGS.
- ② EXPOSED FOUNDATION WALL TYP. - SEE STRUCTURAL DRAWINGS.
- ③ CONCRETE WALK / FINISHED GRADE TO SLOPE AWAY FROM BUILDING - SEE CIVIL DRAWINGS AND ARCHITECTURAL CONSTRUCTION SITE PLAN A9101.
- ④ VINYL SIDING AND TRIM - SEE FINISH SCHEDULE.
- ⑤ PREFINISHED GALV. STL. FASCIA AND DRIP FLASHING - SEE FINISH SCHEDULE. COLOR AS SELECTED BY OWNER.
- ⑥ ARCHITECTURAL GRADE ASPHALT SHINGLES - SEE ROOF PLAN.
- ⑦ RIDGE VENT CONTINUOUS - SEE ROOF PLAN.
- ⑧ PREFINISHED GALV. STL. GUTTER AND DOWNSPOUT. COLOR AS SELECTED BY OWNER. DOWNSPOUT PIPED UNDER SIDEWALK TO GRAVEL SUMP. SEE FLOOR PLAN FOR SUMP LOCATIONS.
- ⑨ LIGHT FIXTURE - SEE ELECTRICAL DRAWINGS.
- ⑩ EXISTING MODULAR BUILDING TO REMAIN. PROTECT DURING ALL PHASES OF CONSTRUCTION.
- ⑪ HEAT TAPE ON ROOF ABV. GUTTERS AND INTO DOWNSPOUTS AND THROUGH CAST IRON DRAIN PIPE UNDER SIDEWALK - SEE ELECTRICAL DRAWINGS.
- ⑫ 6" CONCRETE CURB - SEE FLOOR PLAN FOR DIMENSIONS.

ARCHITECTA/JC PROJECT # 0502



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OWNER INFORMATION
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PROJECT DESCRIPTION
**ATE CENTER AT
UTAH STATE PRISON
VOCATIONAL
CLASSROOMS**
DRAPER, UTAH

SHEET NAME:
B EXTERIOR ELEVATIONS

REVISIONS

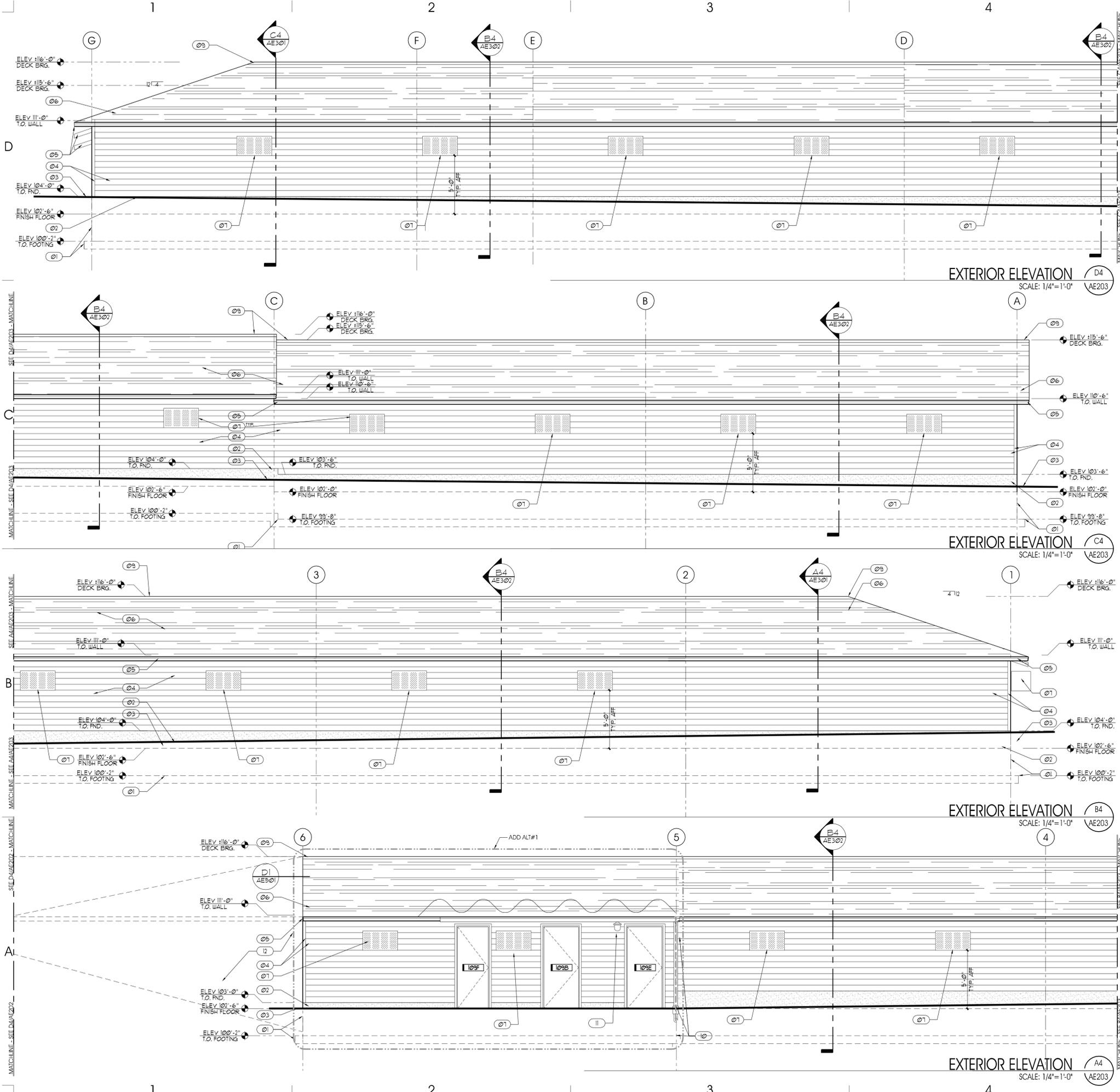
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SHEET NUMBER:

AE202



GENERAL NOTES AND LEGEND:
FOR SHEET AE203 ONLY.

- SEE SHEET G1002 FOR GENERAL NOTES AND ALTERNATES.
- SEE COVER SHEET FOR DRAWING INDEX.
- DO NOT SCALE DRAWINGS.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE BEGINNING WORK AND SHALL REPORT TO THE ARCHITECT ANY ERRORS, INCONSISTENCIES OR OMISSIONS BEFORE BEGINNING WORK. SEE GENERAL NOTES AND SPECIFICATIONS.
- ARCHITECTURAL FINISH FLOOR ELEVATION 100'-0" + 10/65' SITE ELEVATION
- BASE BID:
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COMPLETE CONSTRUCTION AS SPECIFIED HEREIN FOR THE ENTIRE RESTROOM PORTION OF THE BUILDING LOCATED BETWEEN GRIDS 5 & 6 AS SHOWN ON FLOOR PLANS

KEYED NOTE LEGEND:
FOR SHEETS AE201, AE202 AND AE203 ONLY.

- 01 LINE OF CONCRETE FOOTING AND FOUNDATION - SEE STRUCTURAL DRAWINGS.
- 02 EXPOSED FOUNDATION WALL TYP. - SEE STRUCTURAL DRAWINGS.
- 03 CONCRETE WALK / FINISHED GRADE TO SLOPE AWAY FROM BUILDING - SEE CIVIL DRAWINGS AND ARCHITECTURAL CONSTRUCTION SITE PLAN A910.
- 04 VINYL SIDING AND TRIM - SEE FINISH SCHEDULE.
- 05 PREFINISHED GALV. STL. FASCIA AND DRIP FLASHING - SEE FINISH SCHEDULE. COLOR AS SELECTED BY OWNER.
- 06 ARCHITECTURAL GRADE ASPHALT SHINGLES - SEE ROOF PLAN.
- 07 WALL MOUNTED HVAC UNIT - SEE MECHANICAL DRAWINGS.
- 08 CAST IRON DRAIN BOOT AND PIPE.
- 09 RIDGE VENT CONTINUOUS - SEE ROOF PLAN.
- 10 PREFINISHED GALV. STL. GUTTER AND DOWNSPOUT. COLOR AS SELECTED BY OWNER. DOWNSPOUT PIPED UNDER SIDEWALK TO GRAVEL SUMP. SEE FLOOR PLAN FOR SUMP LOCATIONS.
- 11 LIGHT FIXTURE - SEE ELECTRICAL DRAWINGS.
- 12 EXISTING MODULAR BUILDING TO REMAIN. PROTECT DURING ALL PHASES OF CONSTRUCTION.
- 13 HEAT TAPE ON ROOF ABV. GUTTERS AND INTO DOWNSPOUTS AND THROUGH CAST IRON DRAIN PIPE UNDER SIDEWALK - SEE ELECTRICAL DRAWINGS.
- 14 6" CONCRETE CURB - SEE FLOOR PLAN FOR DIMENSIONS.

ARCHITECTA/JC PROJECT # 0502



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DRAPER, UTAH

SHEET NAME:

B EXTERIOR ELEVATIONS

REVISIONS

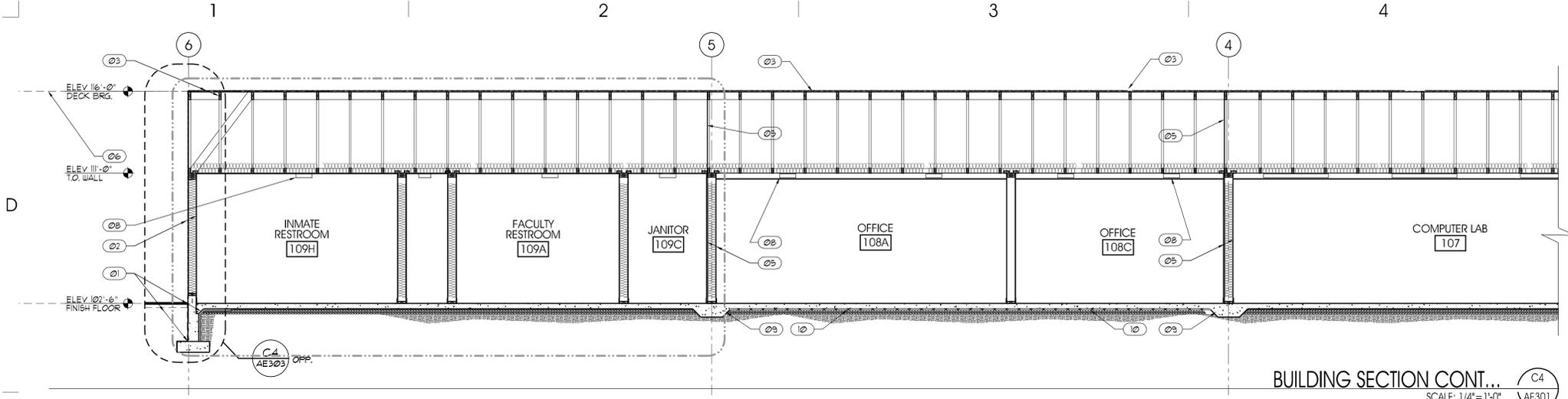
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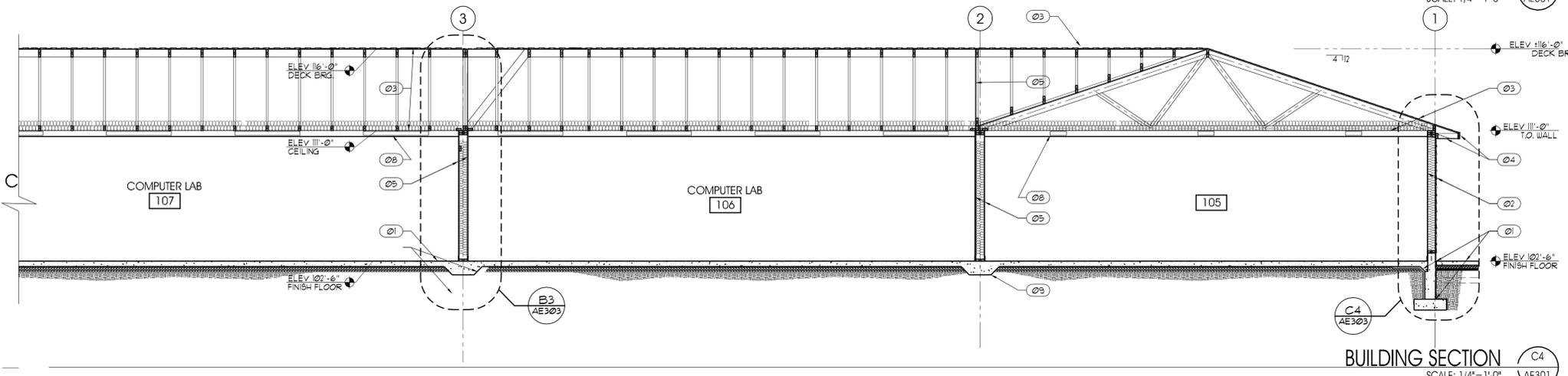
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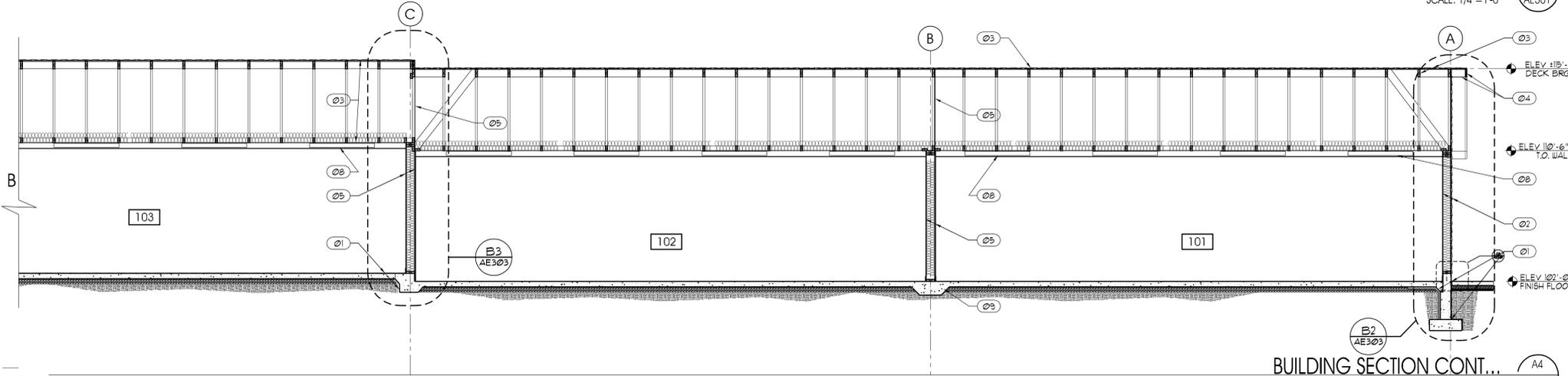
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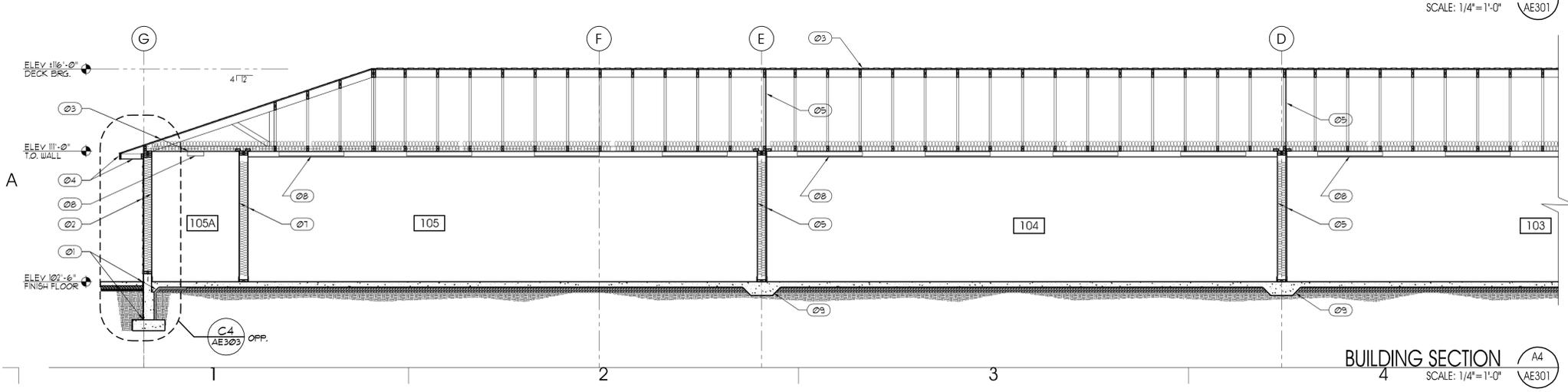
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C4 AE301



BUILDING SECTION
SCALE: 1/4"=1'-0"
C4 AE301



BUILDING SECTION CONT...
SCALE: 1/4"=1'-0"
A4 AE301



BUILDING SECTION
SCALE: 1/4"=1'-0"
A4 AE301

GENERAL NOTES AND LEGEND:
*FOR SHEET AE301 ONLY.

- SEE SHEET G1002 FOR GENERAL NOTES AND ALTERNATES.
- SEE COVER SHEET FOR DRAWING INDEX.
- DO NOT SCALE DRAWINGS.
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- SEE REFERENCED WALL SECTIONS FOR ADDITIONAL INFORMATION.
- BASE BID:
ALL SITE WORK INCLUDING, BUT NOT LIMITED TO: SITE IMPROVEMENTS AND INFRASTRUCTURE, ALL EXCAVATION FOR UNDERGROUND UTILITIES AND CONCRETE SLABS, FOOTINGS, FOUNDATIONS AND DAMP-PROOFING, ALL UNDER-SLAB PLUMBING AND ELECTRICAL ROUGH-INS. ALL OTHER CONSTRUCTION INDICATED ON PLANS N.I.C. AT THIS TIME.
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KEYED NOTE LEGEND:
*FOR SHEET AE301 ONLY.

- Ø1 REINFORCED CONCRETE FOOTING AND FOUNDATION - SEE STRUCTURAL DRAWINGS.
4" CONCRETE WALK / GRADE TO SLOPE AWAY FROM BUILDING - SEE CIVIL DRAWINGS AND ARCHITECTURAL CONSTRUCTION SITE PLAN A5101.
4" REINFORCED CONCRETE SLAB ON GRADE (SEALED) - SEE STRUCTURAL DRAWINGS.
1-1/2" PERIMETER SLAB/FND. INSULATION BOARD.
DAMP-PROOFING ON FOUNDATION WALL AND FOOTING CONT. TYP.
- Ø2 VINYL SIDING AND TRIM - SEE FINISH SCHEDULE.
AIR INFILTRATION BARRIER
APA RATED PLYWOOD SHEATHING - SEE STRUCTURAL DRAWINGS.
2x6 WOOD WALL FRAMING @ 16" O.C. - SEE STRUCTURAL DRAWINGS.
R-19 BATT INSULATION.
6 MIL POLYETHYLENE VAPOR BARRIER.
5/8" GYP. BD. - PAINT - SEE FINISH SCHEDULE.
- Ø3 ARCHITECTURAL GRADE ASPHALT SHINGLES OVER 30" ASPHALT PAPER - SEE ROOF PLAN. PROVIDE ICE & WATER SHIELD - SEE ROOF PLAN AE104 CONT. RIDGE VENT.
APA RATED ROOF SHEATHING - SEE STRUCTURAL DRAWINGS.
PREFABRICATED ROOF TRUSS - SEE STRUCTURAL DRAWINGS.
R-30 BATT INSULATION W/ VAPOR BARRIER.
1/2" GYP. BD. - PAINT / SUSP. ACoust. PANELS - SEE FINISH SCHEDULE.
- Ø4 PREFINISHED GALV. STL. FASCIA & DRIP FLASHING - SEE FINISH SCHEDULE.
COLOR BY OWNER.
PREFINISHED STL. PANELS W/ VENTING/BUG SCREEN.
PREFINISHED GALV. STL. DOWNSPOUT INTO CAST IRON DRAIN BOOT AND BENEATH SIDEWALK W/ CAST IRON PIPE TO GRAVEL SUMP (30"x30"x36").
SEE ROOF PLAN FOR DOWNSPOUT/GUTTER LOCATIONS.
- Ø5 APA RATED PLYWOOD SHEATHING CONT. TO ROOF DECK FOR DRAFTSTOP - SEE STRUCTURAL DRAWINGS.
2x6 WOOD WALL FRAMING @ 16" O.C. - SEE STRUCTURAL DRAWINGS.
5/12" SOUND ATTENUATION BLANKETS.
5/8" GYP. BD. BOTH SIDES - PAINT - SEE FINISH SCHEDULE.
- Ø6 EXISTING CLASSROOM BUILDING TO REMAIN - PROTECT. REMOVE EXISTING EXTERIOR SIDING AND BUILDING WRAP. REMOVE ROOF OVERHANG AT ENDWALLS AS REQUIRED. CONNECT NEW ROOF TO EXISTING ROOF IN ONE CONTINUOUS PLANE FOR SEAMLESS APPEARANCE.
- Ø7 2x6 WOOD WALL FRAMING @ 16" O.C. - SEE STRUCTURAL DRAWINGS.
5/12" SOUND ATTENUATION BLANKETS.
5/8" GYP. BD. BOTH SIDES - PAINT - SEE FINISH SCHEDULE.
- Ø8 SURFACE MTD. LIGHT FIXTURE - SEE ELECTRICAL DRAWINGS.
- Ø9 REINFORCED CONCRETE FOOTING AND FOUNDATION @ SHEAR WALL - SEE STRUCTURAL DRAWINGS.
- Ø10 VAPOR BARRIER BELOW CONC. SLAB ONLY AT CARPETED LOCATIONS.
- Ø11 PROVIDE 2" OF GRAVEL @ ROOF EDGE DRIP LINE TYP. @ SOUTH & WEST SIDES.

ARCHITECT/JC PROJECT # 0502



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

PROJECT DESCRIPTION
**ATE CENTER AT
UTAH STATE PRISON
VOCATIONAL
CLASSROOMS**

DRAPER, UTAH

SHEET NAME:
B BUILDING SECTIONS

REVISIONS

MARK	DATE	DESCRIPTION

ISSUE DATA

ISSUE DATE:	JUNE 2006
ISSUE TYPE:	100% CON. DOCS.
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SHEET NUMBER:

AE301

GENERAL NOTES AND LEGEND:
*FOR SHEET AE302 ONLY.

- SEE SHEET G1002 FOR GENERAL NOTES AND ALTERNATES.
- SEE COVER SHEET FOR DRAWING INDEX.
- DO NOT SCALE DRAWINGS.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE BEGINNING WORK AND SHALL REPORT TO THE ARCHITECT ANY ERRORS, INCONSISTENCIES OR OMISSIONS BEFORE BEGINNING WORK. SEE GENERAL NOTES AND SPECIFICATIONS.
- SEE REFERENCED WALL SECTIONS FOR ADDITIONAL INFORMATION.
- BASE BID:
ALL SITE WORK INCLUDING, BUT NOT LIMITED TO: SITE IMPROVEMENTS AND INFRASTRUCTURE, ALL EXCAVATION FOR UNDERGROUND UTILITIES AND CONCRETE SLABS, FOOTINGS, FOUNDATIONS AND DAMP-PROOFING, ALL UNDER-SLAB PLUMBING AND ELECTRICAL ROUGH-INS. ALL OTHER CONSTRUCTION INDICATED ON PLANS N.I.C. AT THIS TIME.
- ADD ALTERNATE #1:
COMPLETE CONSTRUCTION AS SPECIFIED HEREIN FOR THE ENTIRE RESTROOM PORTION OF THE BUILDING LOCATED BETWEEN GRIDS 5 & 6 AS SHOWN ON FLOOR PLANS.

KEYED NOTE LEGEND:
*FOR SHEET AE302 ONLY.

- 01 REINFORCED CONCRETE FOOTING AND FOUNDATION - SEE STRUCTURAL DRAWINGS.
4" CONCRETE WALK / GRADE TO SLOPE AWAY FROM BUILDING - SEE CIVIL DRAWINGS AND ARCHITECTURAL CONSTRUCTION SITE PLAN A9101.
4" REINFORCED CONCRETE SLAB ON GRADE (SEALED) - SEE STRUCTURAL DRAWINGS.
1-1/2" PERIMETER SLAB FND. INSULATION BOARD.
DAMP-PROOFING ON FOUNDATION WALL AND FOOTING, CONT. TYP.
- 02 VINYL SIDING AND TRIM - SEE FINISH SCHEDULE.
AIR INFILTRATION BARRIER.
APA RATED FLYWOOD SHEATHING - SEE STRUCTURAL DRAWINGS.
2x6 WOOD WALL FRAMING @ 16" O.C. - SEE STRUCTURAL DRAWINGS.
R-19 BATT INSULATION.
6 MIL POLYETHYLENE VAPOR BARRIER.
5/8" GYP. BD. - PAINT - SEE FINISH SCHEDULE.
- 03 ARCHITECTURAL GRADE ASPHALT SHINGLES OVER 70# ASPHALT PAPER - SEE ROOF PLAN. PROVIDE ICE & WATER SHIELD - SEE ROOF PLAN AE104 CONT. RIDGE VENT.
APA RATED ROOF SHEATHING - SEE STRUCTURAL DRAWINGS.
PREFABRICATED ROOF TRUSS - SEE STRUCTURAL DRAWINGS.
R-30 BATT INSULATION W/ VAPOR BARRIER.
1/2" GYP. BD. - PAINT / SUBP. ACOUST. PANELS - SEE FINISH SCHEDULE.
- 04 PREFINISHED GALV. STL. FASCIA & DRIP FLASHING - SEE FINISH SCHEDULE. COLOR BY OWNER.
PREFINISHED STL. PANELS W/ VENTING/BUG SCREEN.
PREFINISHED GALV. STL. DOWNSPOUT INTO CAST IRON DRAIN BOOT AND BENEATH SIDEWALK W/ CAST IRON PIPE TO GRAVEL SUMP (30"x30"x36"). SEE ROOF PLAN FOR DOWNSPOUT/GUTTER LOCATIONS.
- 05 APA RATED FLYWOOD SHEATHING CONT. TO ROOF DECK FOR DRAFTSTOP - SEE STRUCTURAL DRAWINGS.
2x6 WOOD WALL FRAMING @ 16" O.C. - SEE STRUCTURAL DRAWINGS.
5 1/2" SOUND ATTENUATION BLANKETS.
5/8" GYP. BD. BOTH SIDES - PAINT - SEE FINISH SCHEDULE.
- 06 EXISTING CLASSROOM BUILDING TO REMAIN - PROTECT. REMOVE EXISTING EXTERIOR SIDING AND BUILDING WRAP. REMOVE ROOF OVERHANG AT ENDWALLS AS REQUIRED. CONNECT NEW ROOF TO EXISTING ROOF IN ONE CONTINUOUS PLANE FOR SEAMLESS APPEARANCE.
- 07 2x6 WOOD WALL FRAMING @ 16" O.C. - SEE STRUCTURAL DRAWINGS.
5 1/2" SOUND ATTENUATION BLANKETS.
5/8" GYP. BD. BOTH SIDES - PAINT - SEE FINISH SCHEDULE.
- 08 SURFACE MTD. LIGHT FIXTURE - SEE ELECTRICAL DRAWINGS.
- 09 REINFORCED CONCRETE FOOTING AND FOUNDATION @ SHEAR WALL - SEE STRUCTURAL DRAWINGS.
- 10 VAPOR BARRIER BELOW CONC. SLAB ONLY AT CARPETED LOCATIONS.
- 11 PROVIDE 2" OF GRAVEL @ ROOF EDGE DRIP LINE TYP. @ SOUTH & WEST SIDES.

ARCHITECTA/JC PROJECT # 0502



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OWNER INFORMATION
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PROJECT DESCRIPTION
**ATE CENTER AT
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DRAPER, UTAH

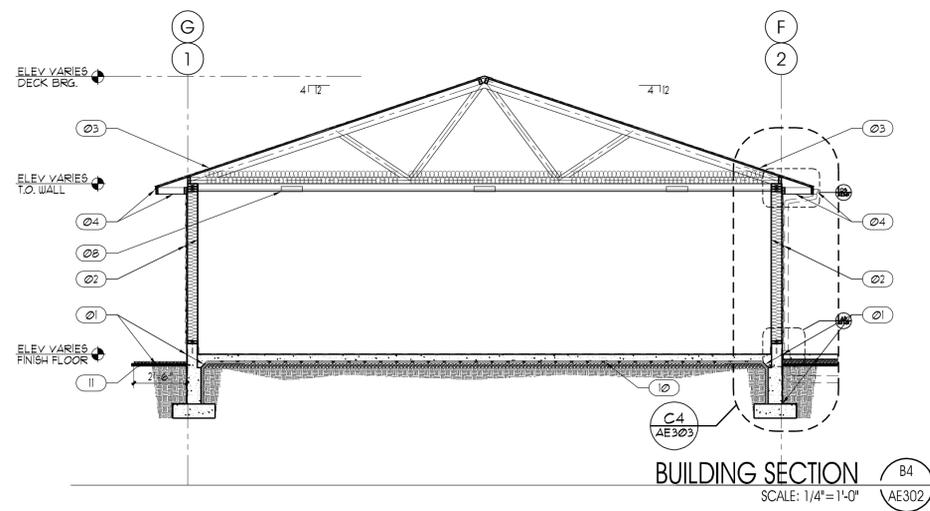
SHEET NAME:
BUILDING SECTIONS

REVISIONS
MARK DATE DESCRIPTION

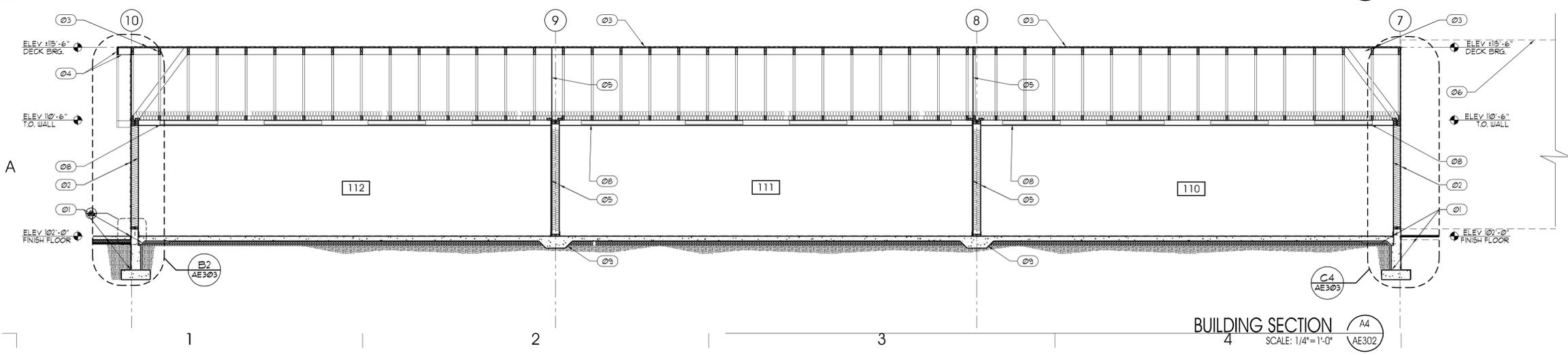
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ISSUE DATE: JUNE 2006
ISSUE TYPE: 100% CON. DOCS.
DRAWN BY: BJA
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CAD FILE NAME: 0502AE301
DFCM PROJECT # 04256100
STATE PROPERTY #
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SHEET NUMBER:

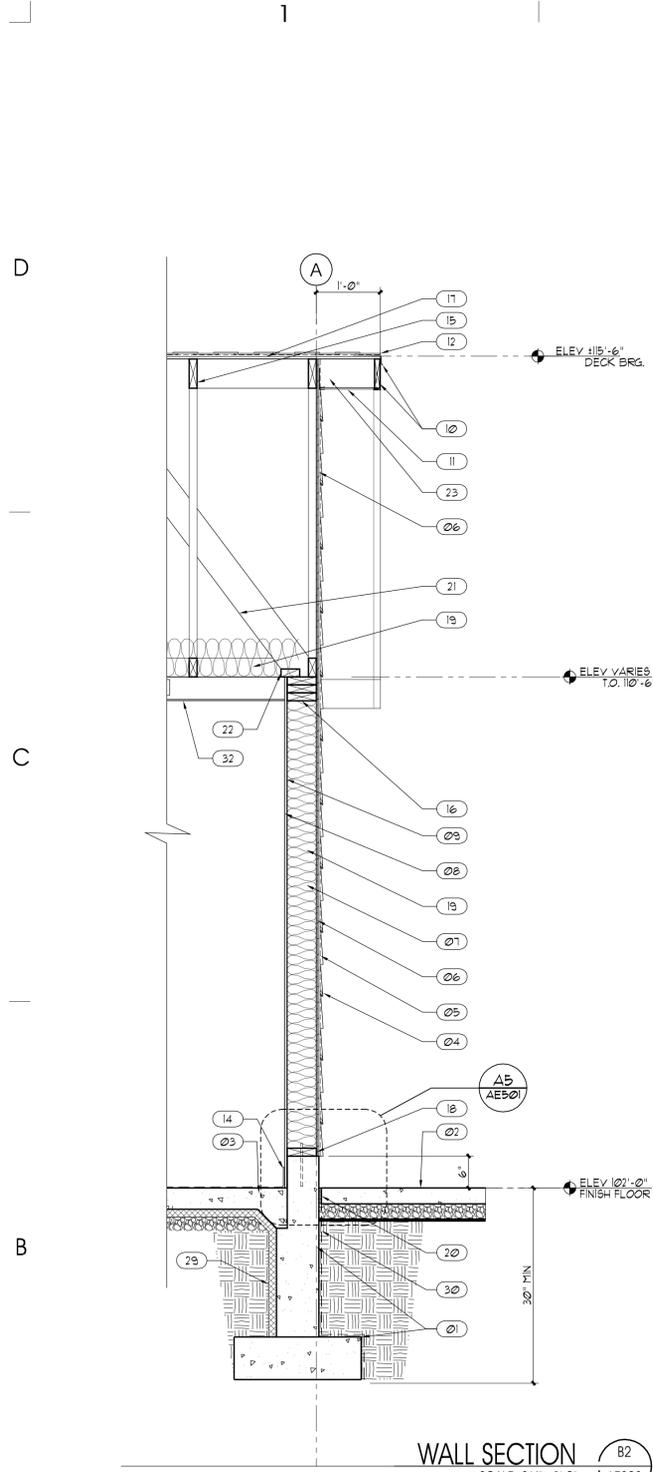
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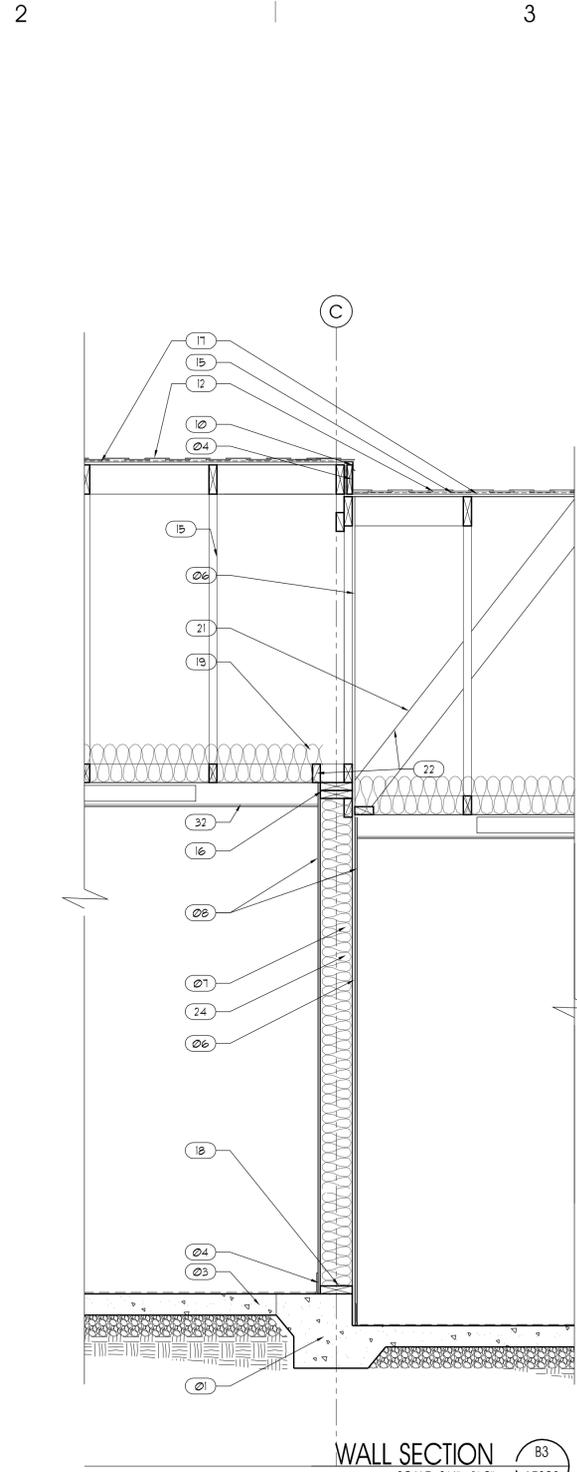
BUILDING SECTION B4
SCALE: 1/4"=1'-0"
AE302



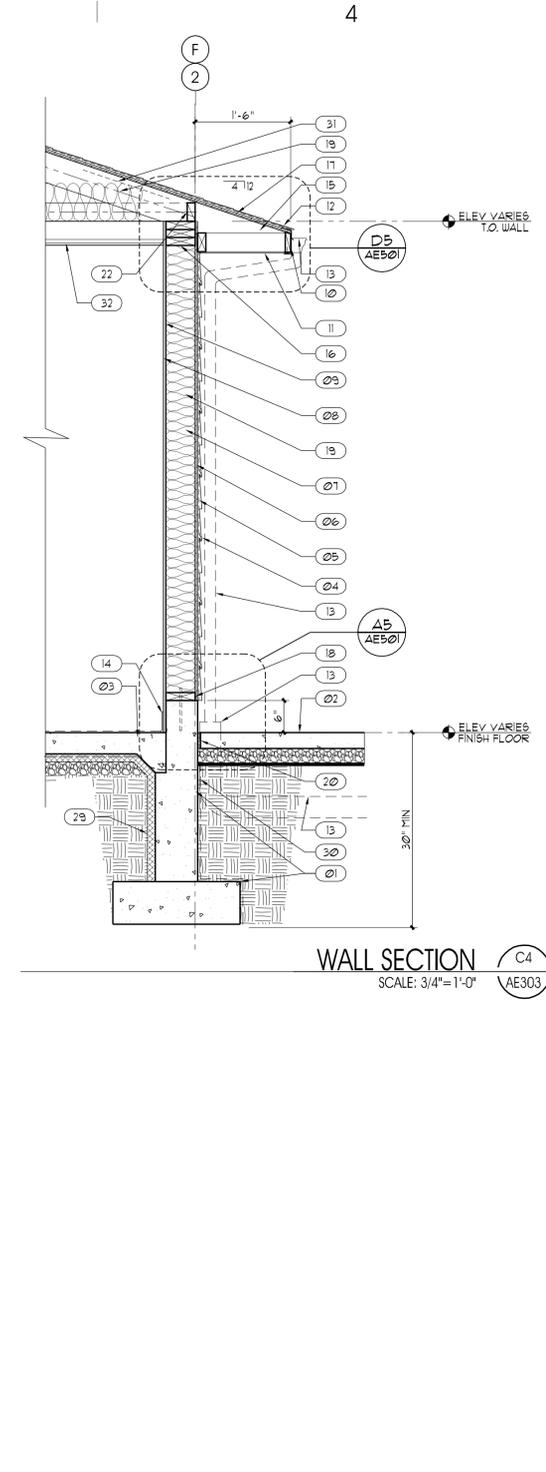
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SCALE: 1/4"=1'-0"
AE302



WALL SECTION B2
SCALE: 3/4"=1'-0"
AE303



WALL SECTION B3
SCALE: 3/4"=1'-0"
AE303



WALL SECTION C4
SCALE: 3/4"=1'-0"
AE303

GENERAL NOTES AND LEGEND:
*FOR SHEET AE303 ONLY.

- SEE SHEET G1002 FOR GENERAL NOTES AND ALTERNATES.
- SEE COVER SHEET FOR DRAWING INDEX.
- DO NOT SCALE DRAWINGS.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE BEGINNING WORK AND SHALL REPORT TO THE ARCHITECT ANY ERRORS, INCONSISTENCIES OR OMISSIONS BEFORE BEGINNING WORK. SEE GENERAL NOTES AND SPECIFICATIONS.
- ARCHITECTURAL FINISH FLOOR ELEVATION 100'-0" + 10/165' SITE ELEVATION
- BASE BID: ALL SITE WORK INCLUDING, BUT NOT LIMITED TO: SITE IMPROVEMENTS AND INFRASTRUCTURE, ALL EXCAVATION FOR UNDERGROUND UTILITIES AND CONCRETE SLABS, FOOTINGS, FOUNDATIONS AND DAMP-PROOFING, ALL UNDER-SLAB PLUMBING AND ELECTRICAL ROUGH-INS. ALL OTHER CONSTRUCTION INDICATED ON PLANS N.I.C. AT THIS TIME.
- ADD ALTERNATE #1: COMPLETE CONSTRUCTION AS SPECIFIED HEREIN FOR THE ENTIRE RESTROOM PORTION OF THE BUILDING LOCATED BETWEEN GRIDS 5 & 6 AS SHOWN ON FLOOR PLANS

KEYED NOTE LEGEND:
*FOR SHEET AE303 ONLY.

- 01 REINFORCED CONCRETE FOOTING AND FOUNDATION - SEE STRUCTURAL DRAWINGS.
- 02 4" CONCRETE WALK / GRADE TO SLOPE AWAY FROM BUILDING - SEE CIVIL DRAWINGS AND ARCHITECTURAL CONSTRUCTION SITE PLAN A5101.
- 03 4" REINFORCED CONCRETE SLAB ON GRADE (SEALED) - SEE STRUCTURAL DRAWINGS.
- 04 VINYL SIDING AND TRIM - COLOR BY OWNER.
- 05 AIR INFILTRATION BARRIER.
- 06 APA RATED PLYWOOD SHEATHING - SEE STRUCTURAL DRAWINGS.
- 07 2x6 WOOD WALL FRAMING @ 16" O.C. - SEE STRUCTURAL DRAWINGS.
- 08 1/2" GYP. BD. (PAINT FINISH) - SEE FINISH SCHEDULE.
- 09 6 MIL REINFORCED POLYETHYLENE VAPOR BARRIER CONT.
- 10 PREFINISHED ALUMINUM FASCIA AND DRIP FLASHING - SEE FINISH SCHEDULE. COLOR BY OWNER.
- 11 PREFINISHED STL. PANELS.
- 12 ARCHITECTURAL GRADE ASPHALT SHINGLES OVER 20" ASPHALT PAPER. PROVIDE ICE & WATER SHIELD - SEE ROOF PLAN.
- 13 PREFINISHED GALV. STL. DOWNSPOUT INTO CAST IRON DRAIN BOOT AND BENEATH SIDEWALK W/ CAST IRON PIPE TO GRAVEL SUMP (30"x30"x36"). SEE ROOF PLAN FOR DOWNSPOUT/GUTTER LOCATIONS.
- 14 RUBBER BASE - SEE FINISH SCHEDULE.
- 15 PREFABRICATED ROOF TRUSS - SEE STRUCTURAL DRAWINGS.
- 16 2x6 TOP PLATE - SEE STRUCTURAL DRAWINGS.
- 17 APA RATED ROOF SHEATHING - SEE STRUCTURAL DRAWINGS.
- 18 P.T. DF SILL PLATE - SEE STRUCTURAL DRAWINGS.
- 19 R-19 BATT INSULATION @ EXTERIOR WALLS / R-30 BATT INSULATION IN CEILING W/ VAPOR BARRIER.
- 20 CONT. EXPANSION JOINT MATERIAL W/ TRAFFIC TYPE SEALANT AND BACKER ROD.
- 21 2x6 WOOD BRACING - SEE STRUCTURAL DRAWINGS.
- 22 BLOCKING - SEE STRUCTURAL DRAWINGS. 1" NOTCH IN BLOCKING TO PROVIDE CONT. AIR FLOW (@ EXTERIOR WALL LOCATIONS).
- 23 2x6 OUTLOOKER @ 24" O.C. - SEE STRUCTURAL DRAWINGS.
- 24 5 1/2" SOUND ATTENUATION BLANKETS.
- 28 EXISTING CLASSROOM BUILDING TO REMAIN - PROTECT. REMOVE EXISTING EXTERIOR SIDING AND BUILDING WRAP. REMOVE ROOF OVERHANG AT ENDWALLS AS REQUIRED. CONNECT NEW ROOF TO EXISTING ROOF IN ONE CONTINUOUS PLANE FOR SEAMLESS APPEARANCE.
- 29 1-1/2" PERIMETER SLAB/FND. INSULATION BOARD.
- 30 DAMP-PROOFING ON FOUNDATION WALL AND FOOTING. CONT. TYP.
- 31 PROVIDE 1" AIR SPACE BETWEEN INSULATION AND SHEATHING.
- 32 SUSP. ACOUST. PANELS - SEE REFLECTED CEILING PLAN.



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PROJECT DESCRIPTION

**ATE CENTER AT
UTAH STATE PRISON
VOCATIONAL
CLASSROOMS**

DRAPER, UTAH

SHEET NAME:

**WALL
SECTIONS**

REVISIONS

MARK	DATE	DESCRIPTION

ISSUE DATA

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SHEET NUMBER:

AE303

GENERAL NOTES AND LEGEND:
FOR SHEET AE401 ONLY.

- SEE SHEET G002 FOR GENERAL NOTES.
- SEE COVER SHEET FOR DRAWING INDEX.
- DO NOT SCALE DRAWINGS.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE BEGINNING WORK AND SHALL REPORT TO THE ARCHITECT ANY ERRORS, INCONSISTENCIES OR OMISSIONS BEFORE BEGINNING WORK. SEE GENERAL NOTES AND SPECIFICATIONS.

ARCHITECTA/C PROJECT # 0502



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KEYED NOTE LEGEND:
FOR SHEET AE401 ONLY.

- Ø1 TRANSACTION TRAY/COMMUNICATION PORT - SEE MILLWORK DETAILS.
- Ø2 FRP PANEL WAJNSCOT W/ MTL TRIM - COLOR WHITE.
- Ø3 4" RUBBER BASE - COLOR SELECTED BY OWNER.
- Ø4 LAVATORY - SEE PLUMBING DRAWINGS.
- Ø5 TILE TO BE CONTINUOUS AROUND DISPENSER AND AT MIRRORS.
- Ø6 SEALED CONCRETE FLOOR - SEE FINISH SCHEDULE SHEET AE601.
- Ø7 CERAMIC TILE WAJNSCOT SEE FINISH SCHEDULE SHEET AE601. PROVIDE BULLNOSE EDGE - TYPICAL.
- Ø8 EPOXY PAINT OVER 5/8" TYP. "X" WR GYP. BD. FULL HEIGHT IN WET AREAS.
- Ø9 GYP. BD. PAINTED - SEE FINISH SHEET AE601.
- Ø10 FLOOR MOUNTED WATER CLOSET - SEE PLUMBING DRAWINGS.
- Ø11 PROTECTIVE PIPE WRAP/ INSULATION.
- Ø12 PAPER TOWEL DISPENSER - BOBRICK B-359 OR EQUAL.
- Ø13 TOILET PAPER DISPENSER - BOBRICK B-7888 OR EQUAL.
- Ø14 SOAP DISPENSER - BOBRICK B-211 OR EQUAL.
- Ø15 MIRROR - BOBRICK B-165 6036 OR EQUAL. RUN TILE CONT. BEHIND MIRROR.
- Ø16 MOP RACK - BOBRICK B-739 OR EQUAL.
- Ø17 JANITOR SINK - SEE PLUMBING DRAWINGS.
- Ø18 ELECTRIC WATER COOLER - SEE PLUMBING DRAWINGS.
- Ø19 47" GRAB BAR - BOBRICK B-6806x47" OR EQUAL.
- Ø20 36" GRAB BAR - BOBRICK B-6806x36" OR EQUAL.
- Ø21 URINAL - SEE PLUMBING DRAWINGS.
- Ø22 SOLID PHENOLIC TOILET PARTITION - CEILING HUNG COLOR SELECTED BY OWNER.
- Ø23 MILLWORK - BY OWNER.
- Ø24 WALL MOUNTED SOLID PHENOLIC URINAL SCREEN WITH CONT. BRACKETS.

OWNER INFORMATION

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

PROJECT DESCRIPTION

ATE CENTER AT UTAH STATE PRISON VOCATIONAL CLASSROOMS

DRAPER, UTAH

SHEET NAME:

B INTERIOR ELEVATIONS

REVISIONS

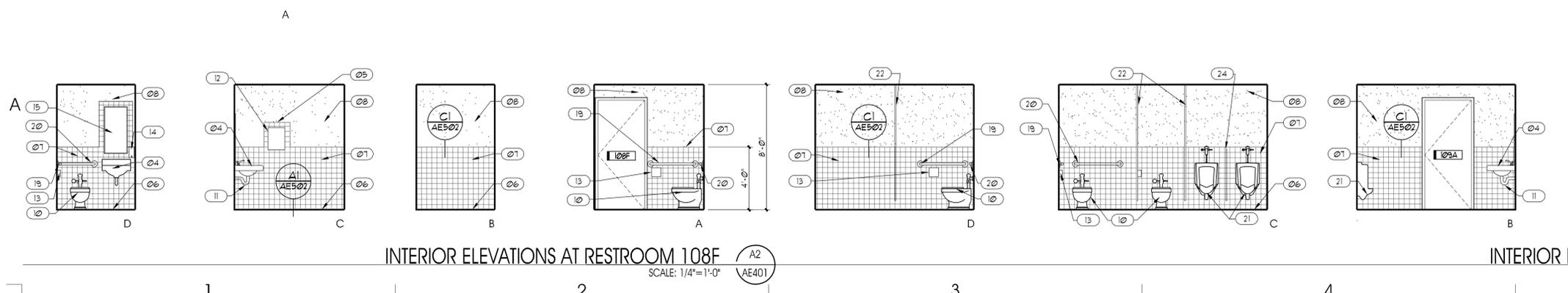
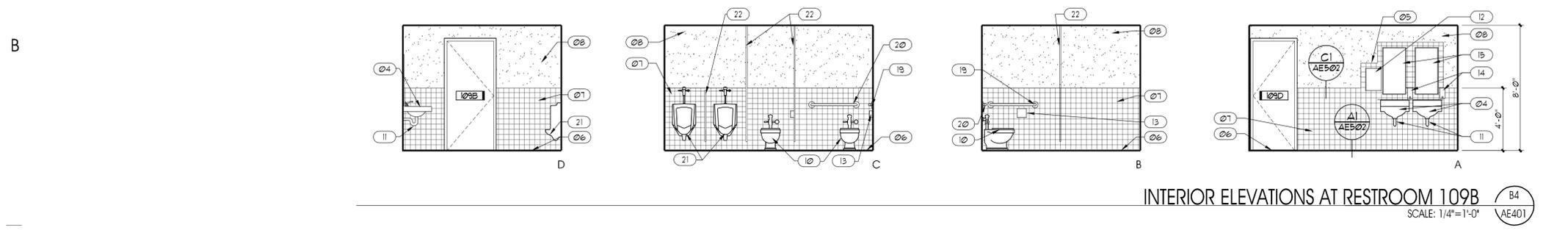
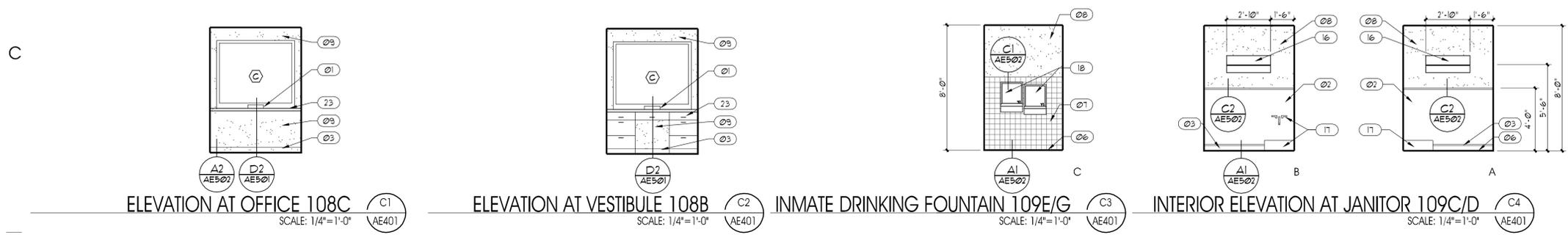
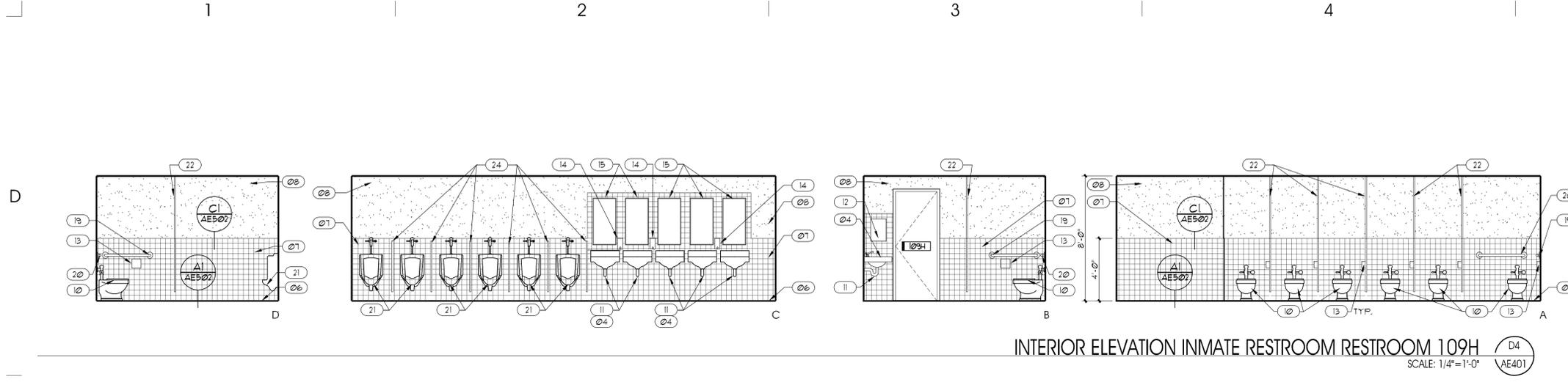
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ISSUE DATA

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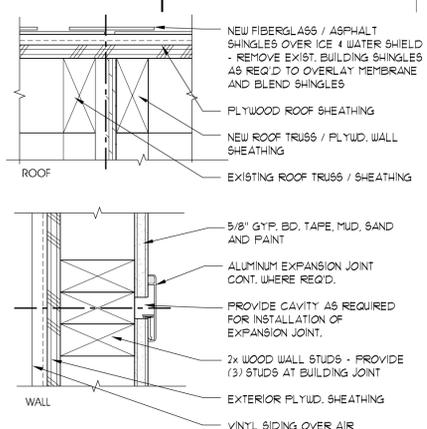
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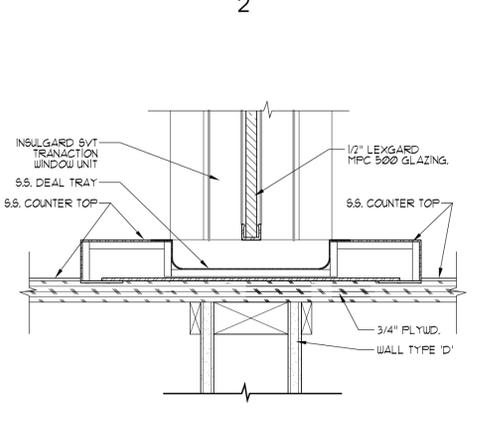




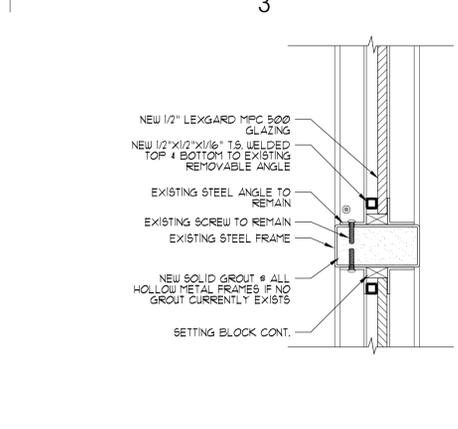
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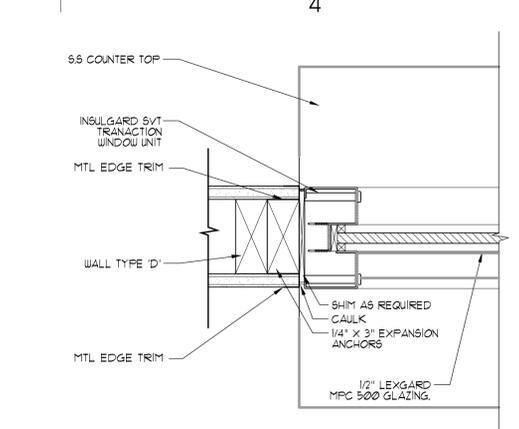
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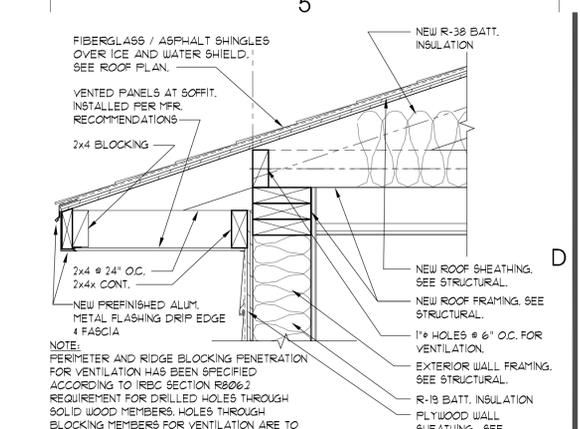
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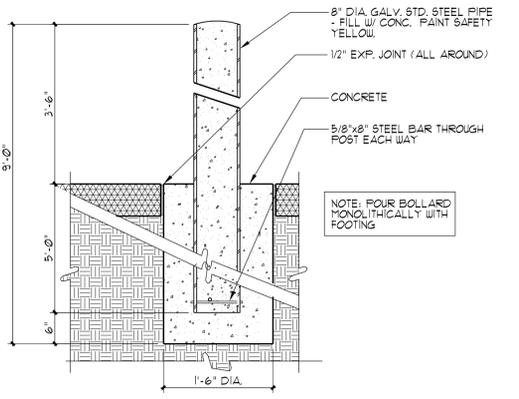
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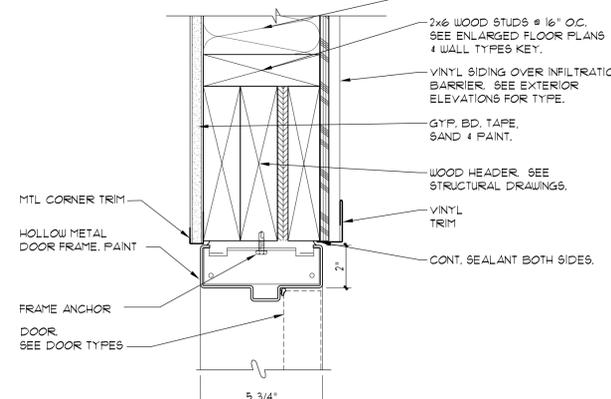
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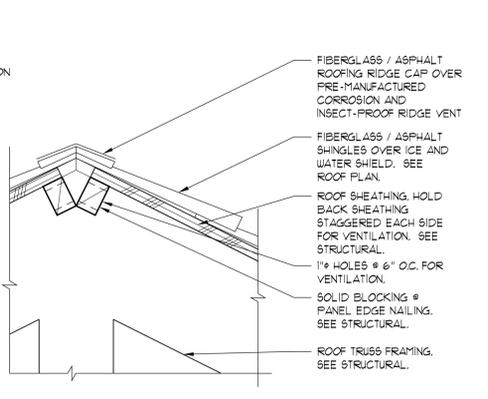
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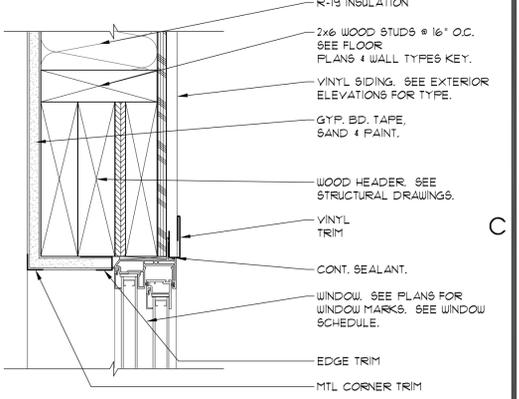
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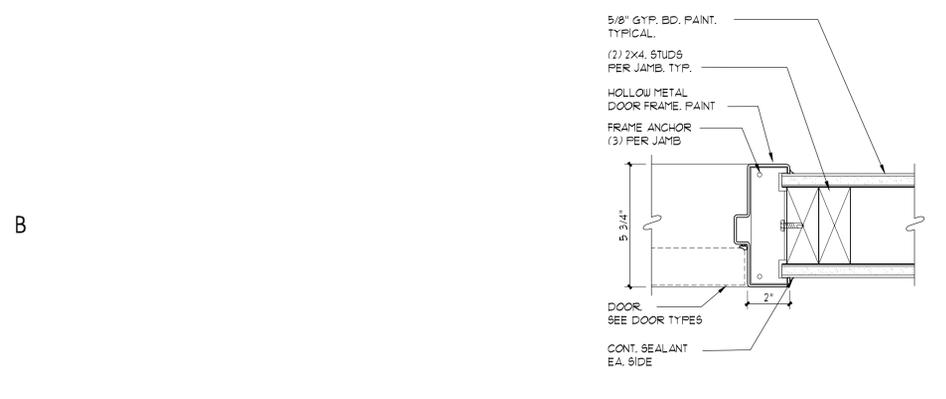
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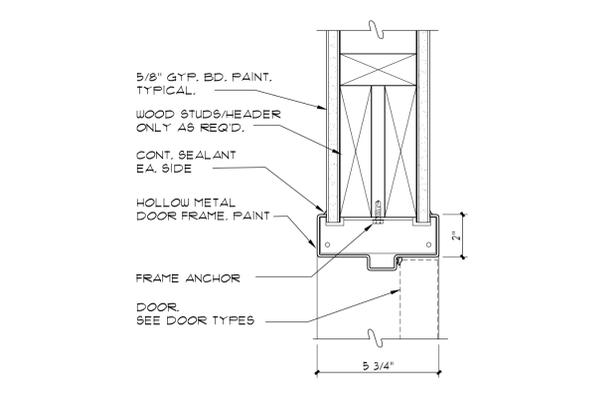
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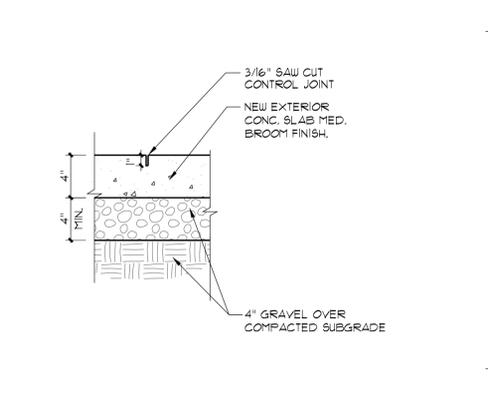
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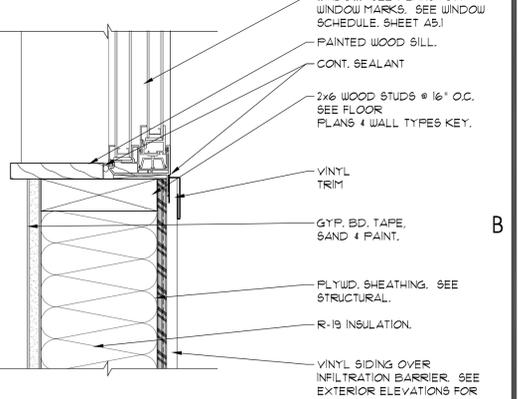
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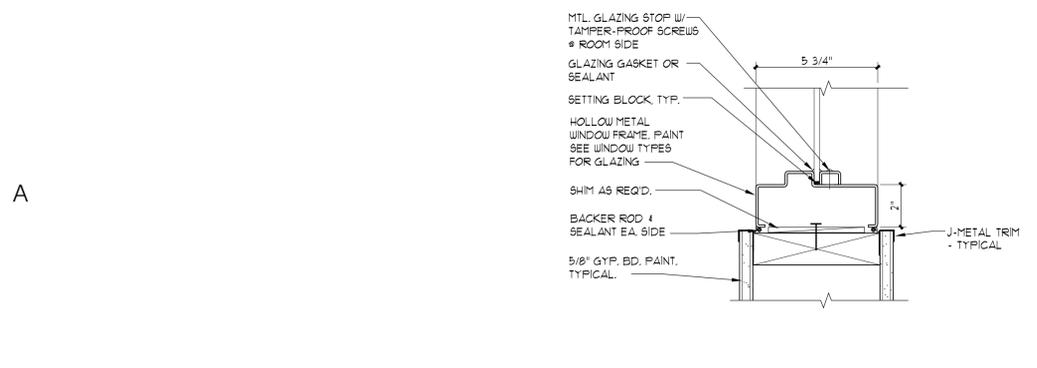
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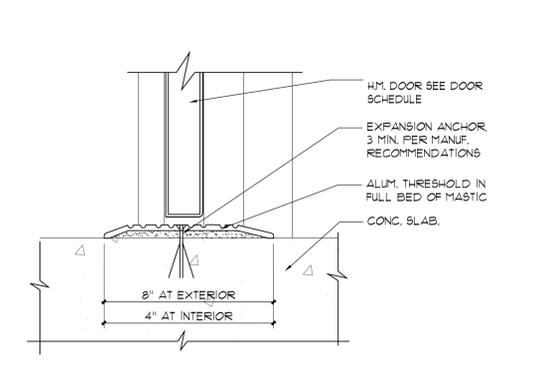
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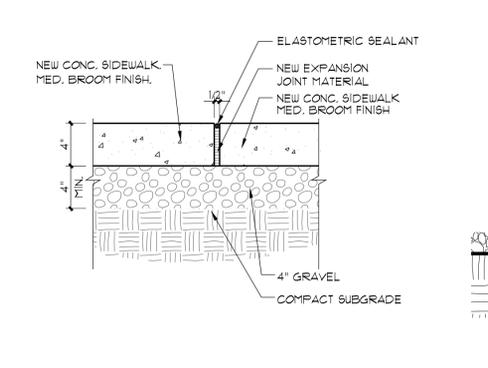
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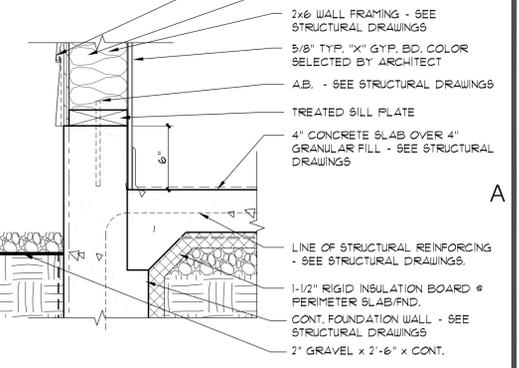
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SCALE: 3" = 1'-0" (AE501)



THRESHOLD (A3)
SCALE: 3" = 1'-0" (AE501)



EXPANSION JT. (A4)
SCALE: 1-1/2" = 1'-0" (AE501)



FOUNDATION (A5)
SCALE: 1-1/2" = 1'-0" (AE501)

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PROJECT DESCRIPTION
**ATE CENTER AT
UTAH STATE PRISON
VOCATIONAL
CLASSROOMS**
DRAPER, UTAH

SHEET NAME:
DETAILS

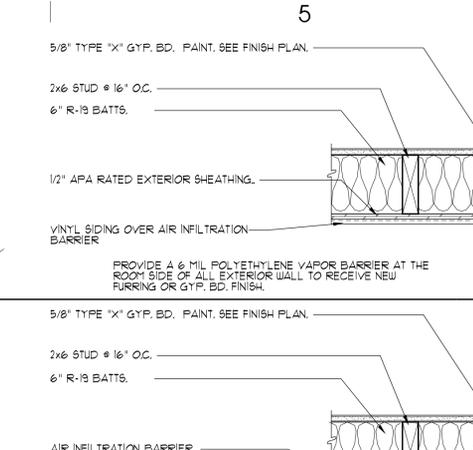
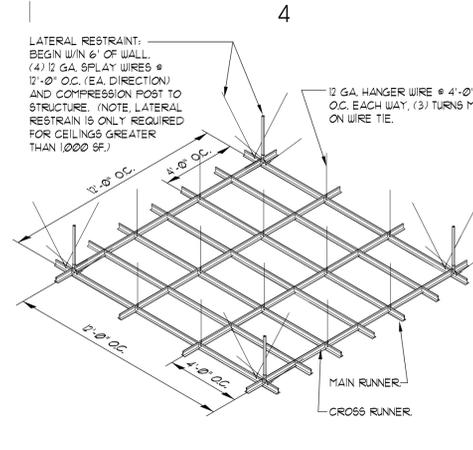
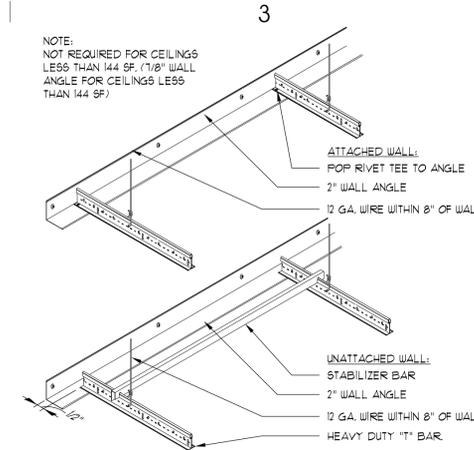
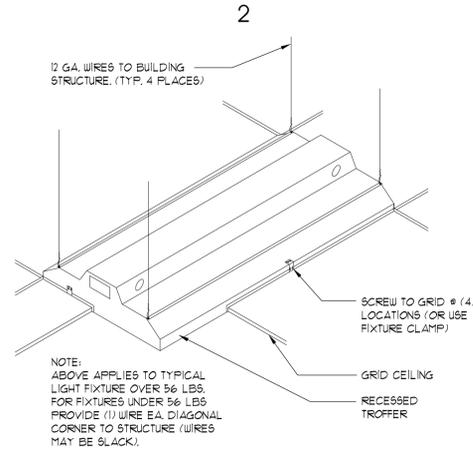
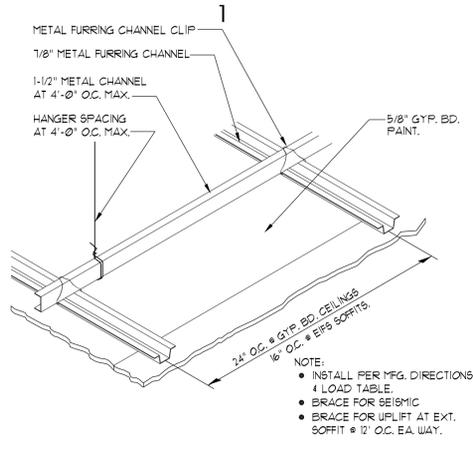
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MARK	DATE	DESCRIPTION
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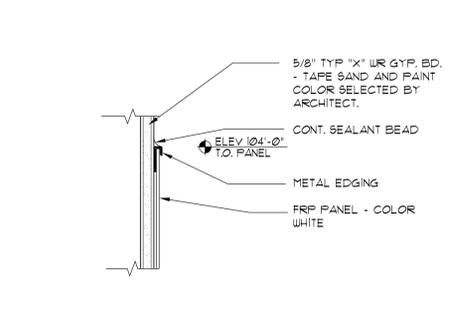
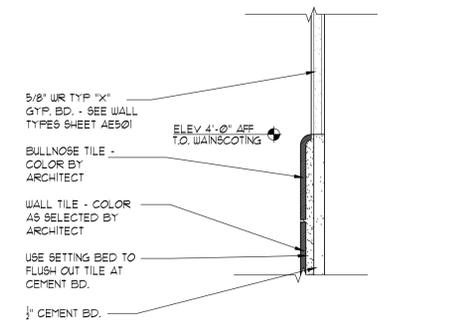
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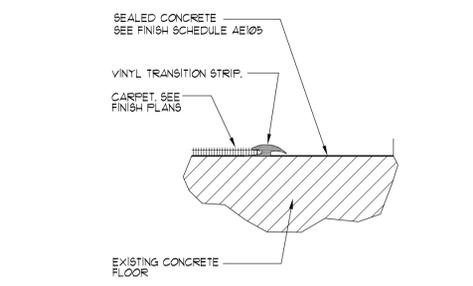


SUSPENDED ACOUSTIC PANEL CEILING AND LIGHTING DETAILS
SCALE: 3" = 1'-0"

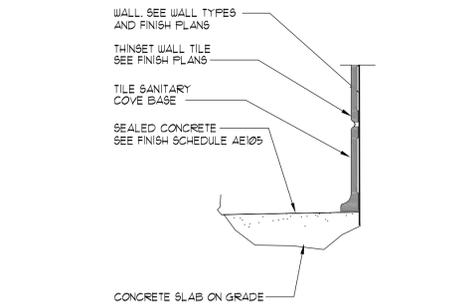


BULLNOSE TILE DETAIL
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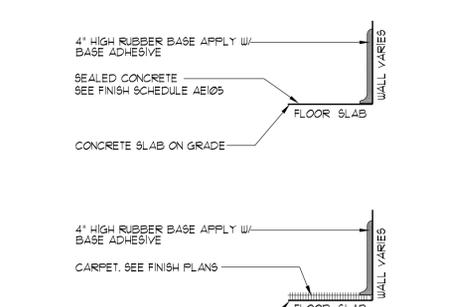
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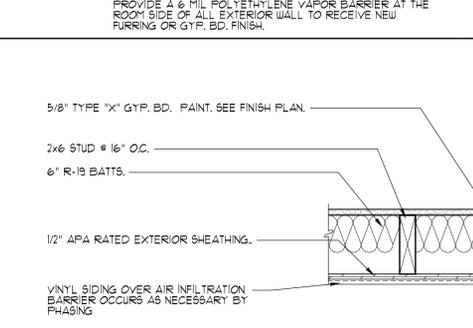
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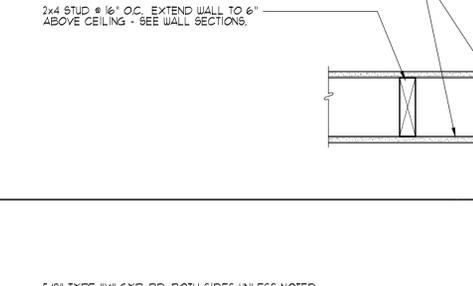
SANITARY COVE BASE
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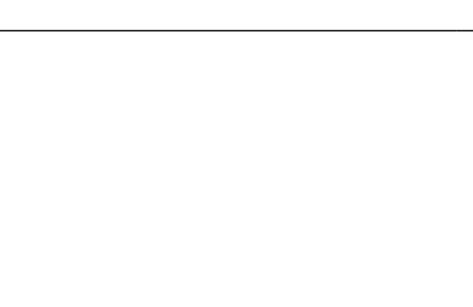
RUBBER BASE
SCALE: 3" = 1'-0" A2 AE502



WALL TYPES
SCALE: 1-1/2" = 1'-0" A5 AE502

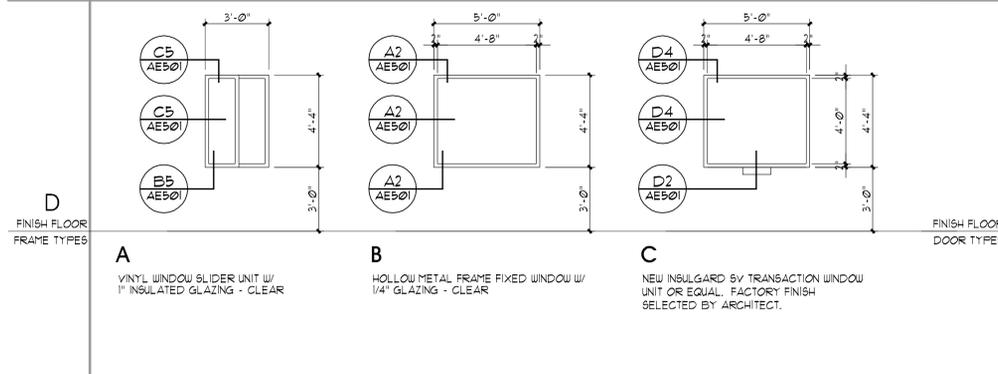


WALL TYPES
SCALE: 1-1/2" = 1'-0" A5 AE502

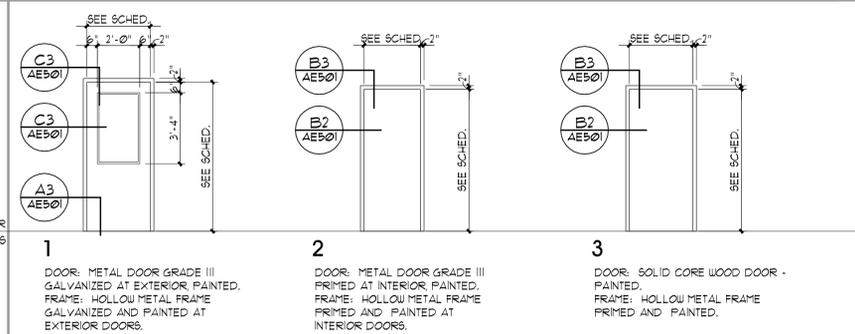


WALL TYPES
SCALE: 1-1/2" = 1'-0" A5 AE502

WINDOW SCHEDULE



DOOR TYPES



DOOR SCHEDULE

DOOR NO.	DOOR SIZE	FIRE RATING (MIN)	DOOR			FRAME		DOOR NOTES
			TYPE	MATERIAL	FINISH	MATERIAL	FINISH	
101	3'-0" x 1'-0"	-	1	HM	PT	HM	PT	1
101A	2'-8" x 6'-8"	-	2	HM	PT	HM	PT	4
102	3'-0" x 1'-0"	-	1	HM	PT	HM	PT	1
103	3'-0" x 1'-0"	-	1	HM	PT	HM	PT	1
104	3'-0" x 1'-0"	-	1	HM	PT	HM	PT	1
105	3'-0" x 1'-0"	-	1	HM	PT	HM	PT	1
105A	2'-8" x 6'-8"	-	2	HM	PT	HM	PT	4
105B	2'-8" x 6'-8"	-	2	HM	PT	HM	PT	4
106	3'-0" x 1'-0"	-	1	HM	PT	HM	PT	1
107	3'-0" x 1'-0"	-	1	HM	PT	HM	PT	1
107A	2'-8" x 6'-8"	-	2	HM	PT	HM	PT	4
108A	3'-0" x 1'-0"	-	1	HM	PT	HM	PT	1
108B	3'-0" x 1'-0"	-	1	HM	PT	HM	PT	1
108C	3'-0" x 6'-8"	-	3	WD	ST	HM	PT	5
108D	3'-0" x 6'-8"	-	3	WD	ST	HM	PT	5
108E	2'-8" x 6'-8"	-	2	HM	PT	HM	PT	4
108F	3'-0" x 6'-8"	-	3	WD	ST	HM	PT	7
109A	3'-0" x 1'-0"	-	2	HM	PT	HM	PT	2
109B	3'-0" x 1'-0"	-	2	HM	PT	HM	PT	3
109C	2'-8" x 6'-8"	-	2	HM	PT	HM	PT	6
109D	2'-8" x 6'-8"	-	2	HM	PT	HM	PT	6
109E	3'-0" x 1'-0"	-	2	HM	PT	HM	PT	3
109F	2'-6" x 1'-0"	-	2	HM	PT	HM	PT	3
109G	3'-0" x 1'-0"	-	2	HM	PT	HM	PT	3
109H	3'-0" x 1'-0"	-	2	HM	PT	HM	PT	3
110	3'-0" x 1'-0"	-	1	HM	PT	HM	PT	1
110A	2'-8" x 6'-8"	-	2	HM	PT	HM	PT	4
111	3'-0" x 1'-0"	-	1	HM	PT	HM	PT	1
112	3'-0" x 1'-0"	-	1	HM	PT	HM	PT	1

HARDWARE SCHEDULE

GROUP 1

DOORS: 101, 102, 103, 104, 105, 106, 107, 108A, 108B, 110, 111, 112

3 HINGES	T443386	4 1/2 X 4 1/2	NRP	32D	MC
1 LOCKSET	28 10G38	LB (MATCH EXISTING)	26D	5A	KEYWAY)
1 CLOSER	351	CP5H	EN	5A	
1 KICK PLATE	KP50	10" X 2" LDW	32D	MCKY	
1 WEATHERSTRIP	MCK290	AFK		MC	
1 WEATHERSTRIP	MCK289	AFK		MC	
1 DOOR BOTTOM	MCK315	CN		MC	

GROUP 2

DOORS: 109A

3 HINGES	T443386	4 1/2 X 4 1/2	NRP	32D	MC
1 LOCKSET	28 10G04	LB (MATCH EXISTING)	26D	5A	KEYWAY)
1 CLOSER	351	CP5H	EN	5A	
1 KICK PLATE	KP50	10" X 2" LDW	32D	MCKY	
1 SMOKE SEAL	MCK588			MC	

GROUP 3

DOORS: 109B, 109E, 109F, 109G, 109H

3 HINGES	T443386	4 1/2 X 4 1/2	NRP	32D	MC
1 DEADLOCK	481	(MATCH EXISTING KEYWAY)	26D	5A	
1 PUSH PLATE	P053	CFC	32D	MCKY	
1 FULL	DP103	X CFC	32D	MCKY	
1 CLOSER	351	CP5H	EN	5A	
1 KICK PLATE	KP50	10" X 2" LDW	32D	MCKY	
1 WALL STOP	WS02	(#105A)	32D	MCKY	
1 SMOKE SEAL	MCK588			MC	
1 DOOR BOTTOM	MCK315	CN		MC	

GROUP 4

DOORS: 101A, 105A, 105B, 107A, 108E, 110A

3 HINGES	MPB19	4 1/2 X 4 1/2	26D	MC	
1 LOCKSET	28 10G04	LB (MATCH EXISTING)	26D	5A	KEYWAY)
1 WALL STOP	WS02	(#105A)	32D	MCKY	
3 SILENCERS	S1M			MCKY	

GROUP 5

DOORS: 108C, 108D

3 HINGES	MPB19	4 1/2 X 4 1/2	26D	MC	
1 LOCKSET	28 10G38	LB (MATCH EXISTING)	26D	5A	KEYWAY)
1 CLOSER	351	CP5H	EN	5A	
1 KICK PLATE	KP50	10" X 2" LDW	32D	MCKY	
1 SMOKE SEAL	MCK588			MC	

GROUP 6

DOORS: 109C, 109D

3 HINGES	MPB19	4 1/2 X 4 1/2	26D	MC	
1 LOCKSET	28 10G04	LB (MATCH EXISTING)	26D	5A	KEYWAY)
1 WALL STOP	WS02		32D	MCKY	
3 SILENCERS	S1M			MCKY	

GROUP 7

DOORS: 108F

3 HINGES	MPB19	4 1/2 X 4 1/2	26D	MC	
1 PRIVACY SET	28 10U65	LB	26D	5A	
1 WALL STOP	WS02		32D	MCKY	
3 SILENCERS	S1M			MCKY	

DOOR SCHEDULE NOTES & ABBREVIATIONS:

SEE SPECIFICATION MANUAL FOR HARDWARE SCHEDULE

1 FIELD VERIFY OPENING

2 W/ ADA OPENER SUPPLIED AND INSTALLED BY OWNER

HM	HOLLOW METAL	ST	STAIN & FACTORY FINISHED
MTL	METAL	WD	WOOD
PT	PAINT	EX	EXISTING DOOR
FF	FACTORY FINISH		

WINDOW FRAME TYPE NOTES / LEGEND:

ALL GLASS WITHIN 24" HORIZONTALLY OF ANY DOOR SHALL BE TEMPERED

ALL GLASS WITHIN 18" OF FINISH FLOOR SHALL BE TEMPERED

ALUMINUM FRAME FINISH TO BE CLEAR ANODIZED (TO BE APPROVED BY ARCHITECT)

CLEAR GLASS TEMPERED

ALL HOLLOW METAL FRAMES TO BE PAINTED. SEE FINISH FLOOR PLANS.

DOOR TYPE NOTES / LEGEND:

A ALL GLASS WITHIN 24" OF ANY DOOR SHALL BE TEMPERED

B ALL GLASS WITHIN 18" OF FINISH FLOOR SHALL BE TEMPERED

C ALL HOLLOW METAL WINDOW FRAMES SHALL BE GALVANIZED AND PAINTED

D ALL HOLLOW METAL DOOR FRAMES SHALL BE FACTORY PRIMED

INDICATES TEMPERED GLAZING

INDICATES DIRECTION OF SWING (POINT INDICATES HINGE LOCATION)

SEE SPECIFICATIONS FOR HARDWARE SCHEDULE

SIGN NOTES:

- ALL SIGNAGE SHALL MEET ANSI REQUIREMENTS, INCLUDING (BUT NOT LIMITED TO) THE FOLLOWING:
 - A- CHARACTERS MUST CONTRAST FROM BACKGROUND BY AT LEAST 70%.
 - B- BRAILLE CHARACTERS MUST MEET STANDARD DIMENSIONS ACCORDING TO ADAAG A438.4. GRADE 2 BRAILLE.
 - C- CHARACTERS AND BACKGROUND SHALL BE NON-GLARE.
 - D- SIGNS SHALL BE INSTALLED ON THE WALL ADJACENT TO THE LATCH SIDE OF THE DOOR INCLUDING DOUBLE LEAF DOORS. IN THE EVENT THIS IS NOT POSSIBLE IN CERTAIN CONDITIONS, NOTIFY ARCHITECT AND WAIT FOR INSTRUCTIONS.
 - E- SUPPLY ONE SIGN FOR EACH RESTROOM DOOR MINIMUM.
 - F- SUBMIT SAMPLE, COLOR & LAYOUT OPTIONS AND SIGN SCHEDULE FOR REVIEW AND APPROVAL.
 - G- OCCUPANCY LIMIT SIGNS TO READ, TYP.: "45 OCCUPANTS MAXIMUM"



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OWNER INFORMATION

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PROJECT DESCRIPTION

ATE CENTER AT
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VOCATIONAL
CLASSROOMS

DRAPER, UTAH

SHEET NAME:

DOOR AND WINDOW
TYPES / DOOR SCHEDULE
/ HARDWARE SCHEDULE

REVISIONS

MARK	DATE	DESCRIPTION

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SHEET NUMBER:

AE601

MECHANICAL LEGEND					
SYMBOL	ABR.	DESCRIPTION	SYMBOL	ABR.	DESCRIPTION
AIR SIDE			WET SIDE		
		NEW AIR DUCT			UNION
		LINED DUCT		BV	BALL VALVE
		VOLUME DAMPER			ELBOW UP
		RETURN AIR, FRESH AIR, AND TRANSFER AIR			ELBOW DOWN
		CEILING MOUNTED EXHAUST FAN OR EXHAUST GRILLE			TEE UP
		EXHAUST AIR INTAKE UP			TEE DOWN
		NEW EQUIPMENT			NEW PIPING
		WALL MOUNTED THERMOSTAT			PIPE CAP OR PLUG
SA		SUPPLY AIR			FLEXIBLE CONNECTION
RA		RETURN AIR			CONDENSATE DRAIN
EA		EXHAUST AIR	GENERAL TERMINOLOGY		
OA		OUTSIDE AIR		A	SECTION LETTER DESIGNATION
FA		FRESH AIR		ME-501	SECTION DRAWN ON THIS SHEET
				A2	DETAIL NUMBER DESIGNATION
				AH	CORRESPONDING WITH GRID LOCATION
				1	MECHANICAL EQUIPMENT DESIGNATION
					EQUIPMENT ITEM DESIGNATION
				SG-1 CFM	REGISTER, GRILLE, DESIGNATION WITH BALANCING CFM LISTED BELOW
				R-1	GRILLE, OR LOUVER DESIGNATION WHERE BALANCING NOT REQUIRED
				1	REVISION DESIGNATOR AND NUMBER
				1	KEY NOTE DESIGNATOR AND NUMBER
			GC		GENERAL CONTRACTOR
			MC		MECHANICAL CONTRACTOR
			EC		ELECTRICAL CONTRACTOR

MECHANICAL GENERAL NOTES:

- G-1** MECHANICAL INFORMATION IS LIMITED TO THE MECHANICAL AND CONTROLS.
 - A - EACH DRAWING SHEET AND THE SPECIFICATIONS HAVE BEEN PREPARED TO SUPPLEMENT EACH OTHER AND THEY SHALL BE INTERPRETED AS AN INTEGRAL UNIT WITH ITEMS SHOWN AND NOTED ON ONE AND NOT THE OTHER BEING FURNISHED AND INSTALLED AS THOUGH SHOWN AND CALLED OUT IN ALL PLACES. ITEMS IN SPECIFICATIONS OR DRAWINGS LISTED WHICH ARE DIFFERING IN EFFICIENCY OR QUALITY SHALL BE HELD TO THE GREATEST OF: EFFICIENCY, QUALITY OR GOVERNING CODE.
 - B - THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR THE INSTALLATION OF THE SYSTEMS ACCORDING TO THE TRUE INTENT AND MEANING OF THE CONTRACT DOCUMENTS.
 - C - THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT WITH PROPER SERVICE ACCESS AND CLEARANCES ACCORDING TO MANUFACTURERS RECOMMENDATIONS. THE CONTRACTOR SHALL REVIEW SUPPLIERS BID PACKAGES FOR COMPLETENESS AND COMPLIANCE TO THE SPECIFICATIONS, SCHEDULES, AND DESIGN INTENT (ALL EQUIPMENT AND METHODS). THE CONTRACTOR SHALL REMOVE AND REINSTALL CORRECTLY AT HIS OWN EXPENSE ANY EQUIPMENT NOT IN COMPLIANCE.
 - D - THE CONTRACTOR SHALL CONSULT MANUFACTURERS INSTALLATION INSTRUCTIONS FOR SIZES, METHODS, ACCESSORIES, AND CLEARANCES IN SPACE AVAILABLE PRIOR TO BIDDING PROJECT.
 - E - ANYTHING NOT CLEAR OR IN CONFLICT WILL BE EXPLAINED BY MAKING APPLICATION TO THE ENGINEER IN WRITING.
- G-2** ANY AND ALL ALTERATIONS TO THE SYSTEM SHOWN SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR. ENGINEER SHALL BE NOTIFIED IN WRITING PRIOR TO CHANGES.
- G-3** CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND LOCATIONS.
- G-4** THE WORKING DRAWINGS ARE DIAGRAMMATIC. THEY DO NOT SHOW EVERY OFFSET, BEND, OR ELBOW NECESSARY FOR THE COMPLETE INSTALLATION IN THE SPACE PROVIDED. ALL LOCATIONS FOR MECHANICAL EQUIPMENT SHALL BE FIELD VERIFIED AND COORDINATED WITH ALL DRAWINGS.
- G-5** THE INSTRUCTION TO "PROVIDE" ALSO INCLUDES INSTALLATION.
- G-6** PROVIDE AND INSTALL BALANCING DAMPERS IN ALL SUPPLY AIR BRANCH DUCTS. BALANCE TO CFM SHOWN ON PLAN.
- G-7** THE CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY IN HANDLING AND DISPOSING OF REFRIGERANTS, OILS, ETC. ALL SUCH MATERIALS SHALL BE HANDLED, DISPOSED, AND USED ON ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL LAWS.
- G-8** C.F.M. LISTED IS ACTUAL AIR.
- G-9** SUPPLIERS SHALL REVIEW ALL DRAWINGS AND THE SPECIFICATIONS PRIOR TO SUBMITTING PRICES TO THE CONTRACTOR. ALL QUESTIONS AND DISCREPANCIES SHALL BE BROUGHT TO THE ENGINEERS ATTENTION PRIOR TO BIDDING.
- G-10** CONTRACTOR SHALL THOROUGHLY REVIEW AND SIGN SUBMITTALS FOR COMPLETENESS AND COMPLIANCE TO THE SPECIFICATIONS PRIOR TO ENGINEERS REVIEW. SUPPLIERS SHALL HIGHLIGHT OR MARK ALL INFORMATION REQUIRED TO SHOW COMPLIANCE TO THE SPECIFICATIONS. ALL REQUESTED EXCEPTIONS TO THE SPECIFICATIONS, OR SCHEDULES SHALL BE CLEARLY NOTED AND EXPLAINED. SUBMITTAL REVIEW AND ACCEPTANCE IS FOR DESIGN CONCEPT ONLY, AND DOES NOT AT ANY WAY RELIEVE THE CONTRACTOR OF RESPONSIBILITY TO MEET SPECIFICATIONS, CAPACITIES, SPACE ISSUES OR DESIGN INTENT.
- G-11** ALL MECHANICAL SHALL BE INSTALLED AND CONFORM TO THE 2003 EDITION OF THE IMC AND IPC WITH UTAH ANNOTATIONS.
- G-12** THIS CONTRACTOR SHALL BE RESPONSIBLE FOR CUTTING, PATCHING, PAINTING, AND REPAIRING WALLS, CEILINGS, FINISHES, ETC. AS NECESSARY TO ACCOMPLISH THE WORK CALLED OUT IN THE DRAWINGS AND SPECIFICATIONS. COORDINATE WITH GENERAL CONTRACTOR.
- G-13** COORDINATE WITH GENERAL CONTRACTOR FOR PATCHING/ FLASHING ALL NEW ROOF AND WALL PENETRATIONS AS REQUIRED.



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DRAPER, UTAH

**MECHANICAL GENERAL
 NOTES AND LEGEND**

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MECHANICAL
FLOOR PLANS

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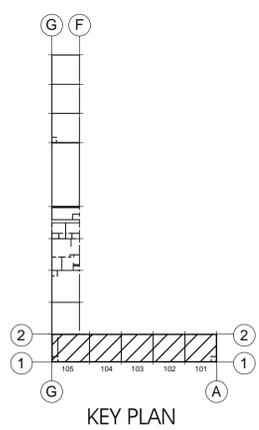
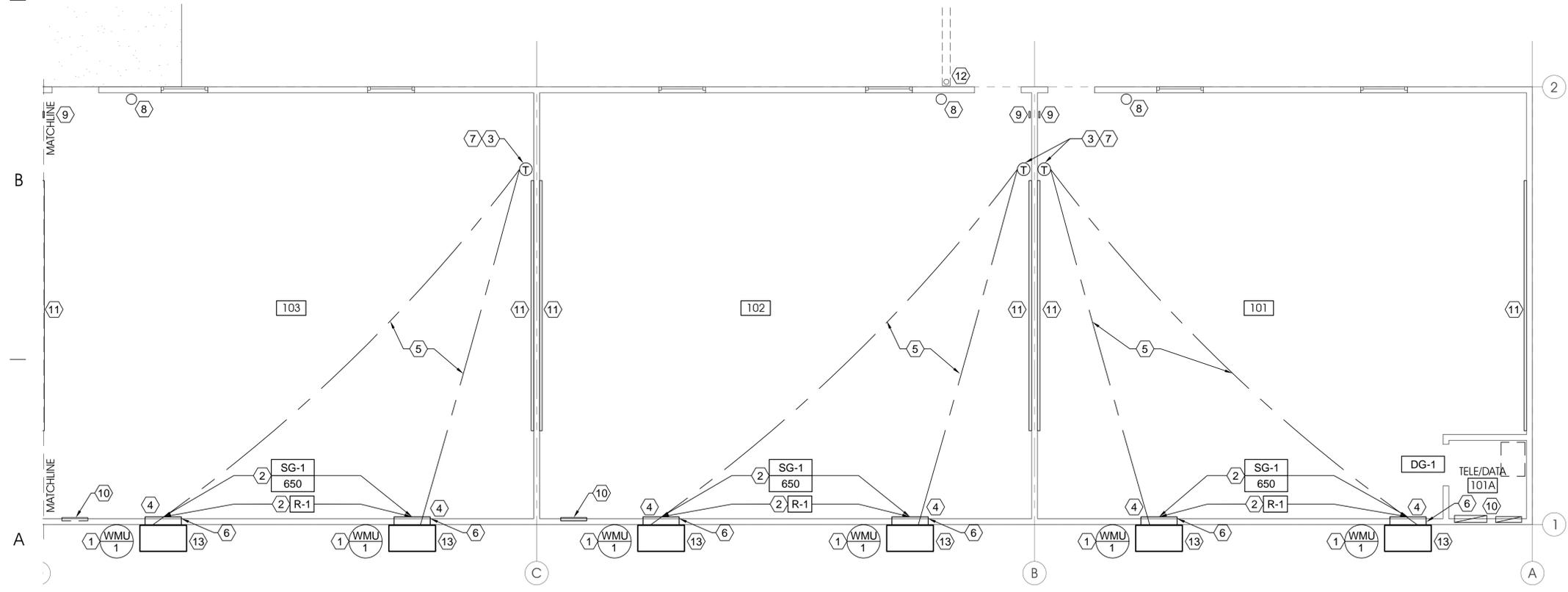
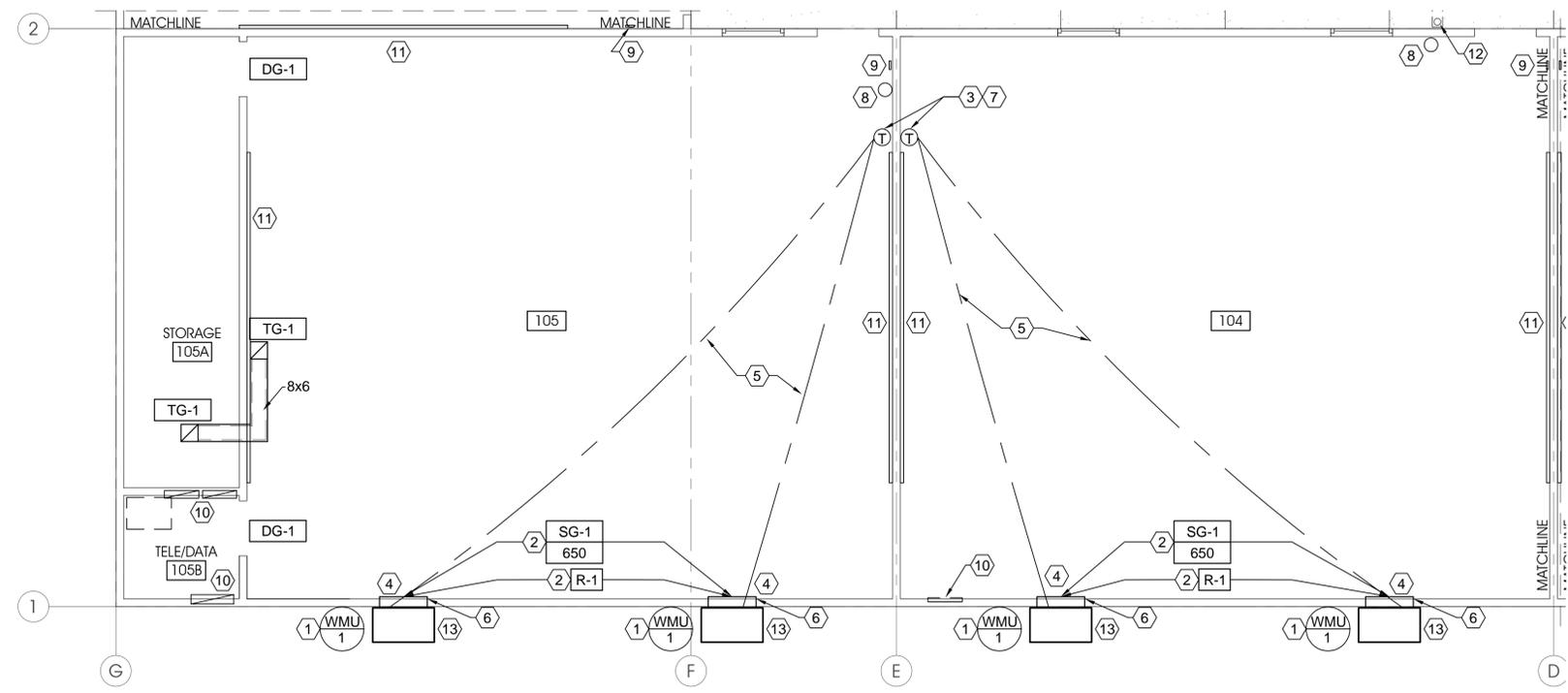
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ME101

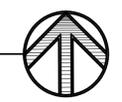
SHEET NOTES:

- 1 PROVIDE NEW EXTERIOR WALL MOUNTED ELECTRIC HEATING AND COOLING UNITS. INSTALL UNIT PER MANUFACTURERS INSTRUCTION. SEE SCHEDULE SHEET ME601.
- 2 PROVIDE SUPPLY AIR GRILLE HIGH AND RETURN AIR GRILLE (LOW). COORDINATE LOCATIONS WITH ARCHITECTURAL.
- 3 PROVIDE THERMOSTAT ONE(1) EACH ROOM TO CONTROL BOTH UNITS. COORDINATE WITH ARCHITECTURAL FOR AVAILABLE LOCATIONS.
- 4 COORDINATE WITH FURNITURE LAYOUT AND LOCATE HEATING AND COOLING UNITS TO AVOID FURNITURE, FIXTURES ETC.
- 5 ROUTE ALL CONTROL WIRING IN CONDUIT IN WALLS AND ABOVE CEILING.
- 6 ALL OPENINGS THRU THE WALLS FOR THE SUPPLY AND RETURN AIR SHALL BE SEALED AIR AND WATER TIGHT.
- 7 COORDINATE LOCATION OF THERMOSTATS WITH MARKER BOARDS, SIGNS, FIRE EXTINGUISHERS, ETC.
- 8 FIRE EXTINGUISHERS - SEE ARCHITECTURAL DRAWINGS - BY G.C.
- 9 OCCUPANCY SIGNS - SEE ARCHITECTURAL DRAWINGS - BY G.C.
- 10 ELECTRICAL PANEL - SEE ELECTRICAL DRAWINGS - BY E.C.
- 11 MARKER BOARD - SEE ARCHITECTURAL DRAWINGS - BY G.C.
- 12 OUTER DOWN SPOUT AND DRAIN PIPING TO SUMP. SEE ARCHITECTURAL DRAWINGS BY G.C.
- 13 CONDENSATE DRAIN FROM UNIT SHALL BE PIPED TO GRADE.
- 14 CEILING TRANSFER GRILLES AND LINED DUCT.



MECHANICAL FLOOR PLANS

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





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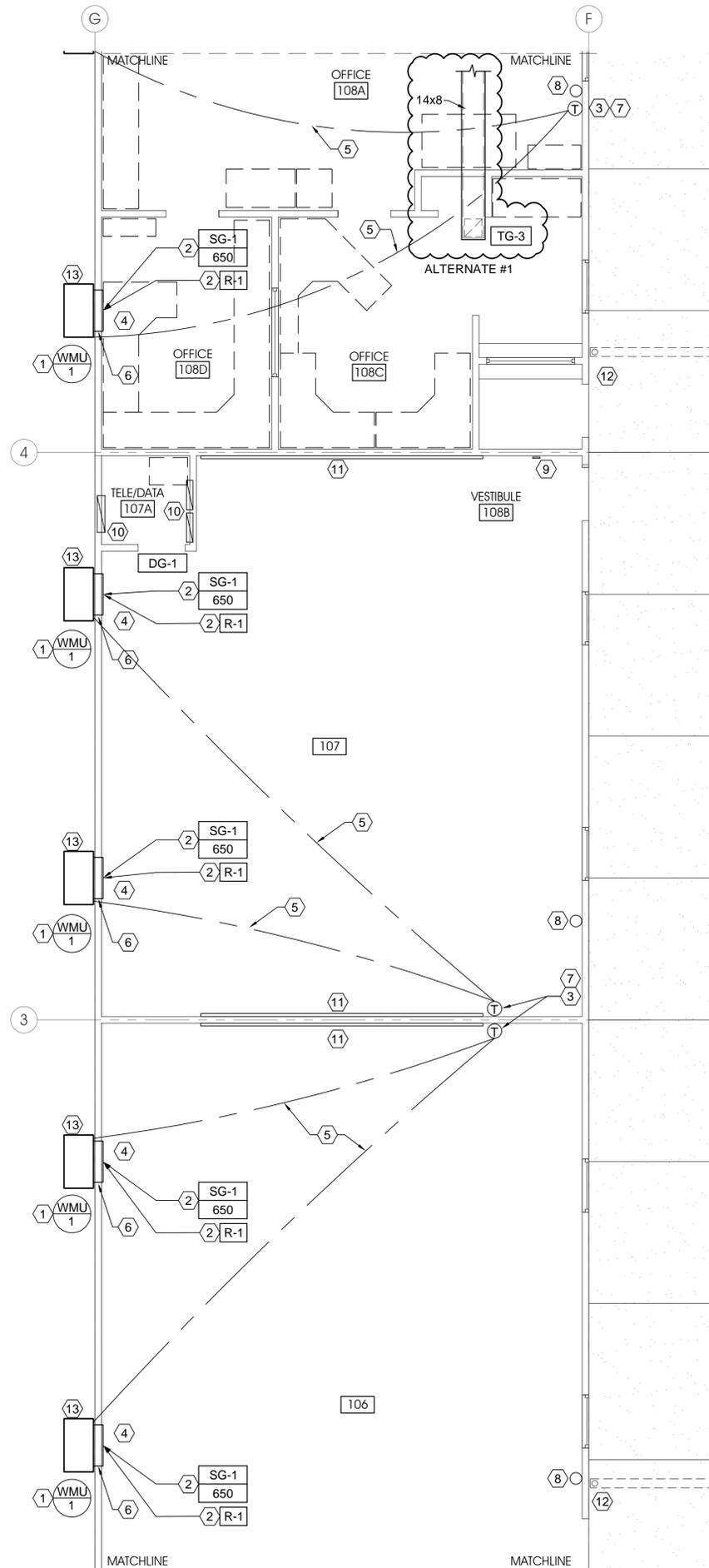
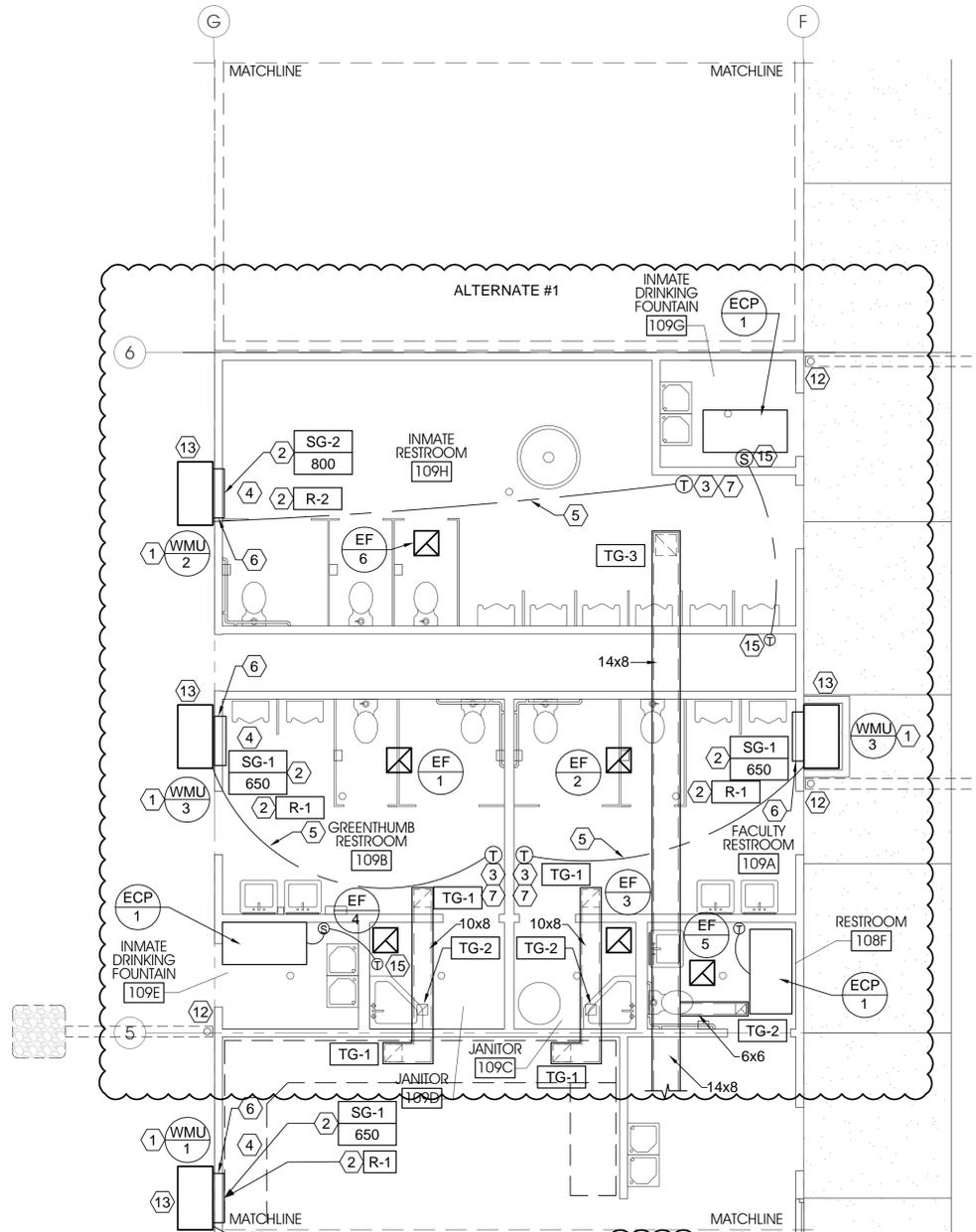
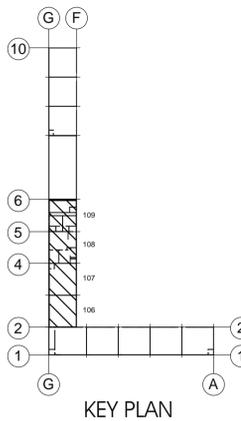
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ME102

SHEET NOTES:

- 1 PROVIDE NEW EXTERIOR WALL MOUNTED ELECTRIC HEATING AND COOLING UNITS. INSTALL UNIT PER MANUFACTURERS INSTRUCTION. SEE SCHEDULE SHEET ME601.
 - 2 PROVIDE SUPPLY AIR GRILLE HIGH AND RETURN AIR GRILLE (LOW).
 - 3 PROVIDE THERMOSTAT ONE(1) EACH ROOM TO CONTROL BOTH UNITS.
 - 4 COORDINATE WITH FURNITURE LAYOUT AND LOCATE HEATING AND COOLING UNITS TO AVOID FURNITURE, FIXTURES ETC.
 - 5 ROUTE ALL CONTROL WIRING IN CONDUIT IN WALLS AND ABOVE CEILING.
 - 6 ALL OPENINGS THRU THE WALLS FOR THE SUPPLY AND RETURN AIR SHALL BE SEALED AIR AND WATER TIGHT.
 - 7 COORDINATE LOCATION OF THERMOSTATS WITH MARKER BOARDS, SIGNS, FIRE EXTINGUISHERS, ETC.
 - 8 FIRE EXTINGUISHERS - SEE ARCHITECTURAL DRAWINGS - BY G.C.
 - 9 OCCUPANCY SIGNS - SEE ARCHITECTURAL DRAWINGS - BY G.C.
 - 10 ELECTRICAL PANEL - SEE ELECTRICAL DRAWINGS - BY E.C.
 - 11 MARKER BOARD - SEE ARCHITECTURAL DRAWINGS - BY G.C.
 - 12 OUTER DOWN SPOUT AND DRAIN PIPING TO SUMP. SEE ARCHITECTURAL DRAWINGS BY G.C.
 - 13 CONDENSATE DRAIN FROM UNIT SHALL BE PIPED TO GRADE.
- 14 TRANSFER AIR TO RESTROOMS SEE THIS SHEET FOR CONTINUATION. DUCT SHALL BE LINED.
 - 15 PROVIDE FLUSH, VANDLE PROOF SENSOR IN EACH INMATE DRINKING FOUNTAIN ROOMS 109G AND 109E. SENSORS SHALL BE TIED TO THERMOSTATS IN SECURE AREAS AS SHOWN.



MECHANICAL FLOOR PLANS

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





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MECHANICAL FLOOR PLANS

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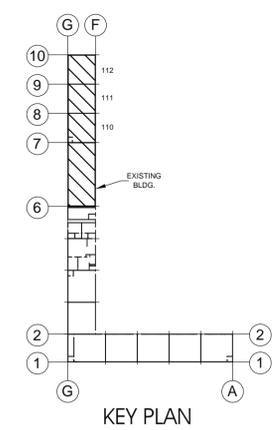
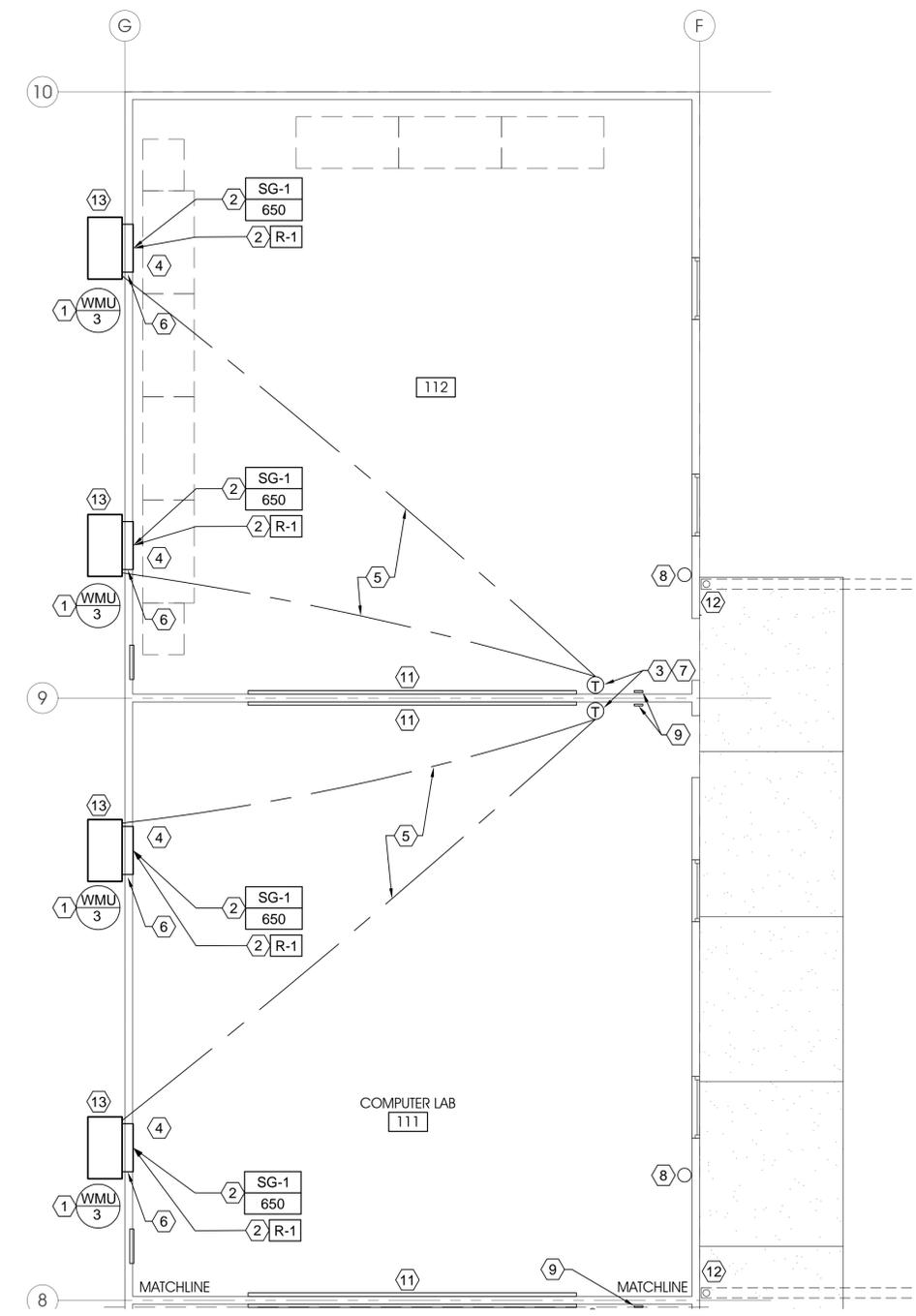
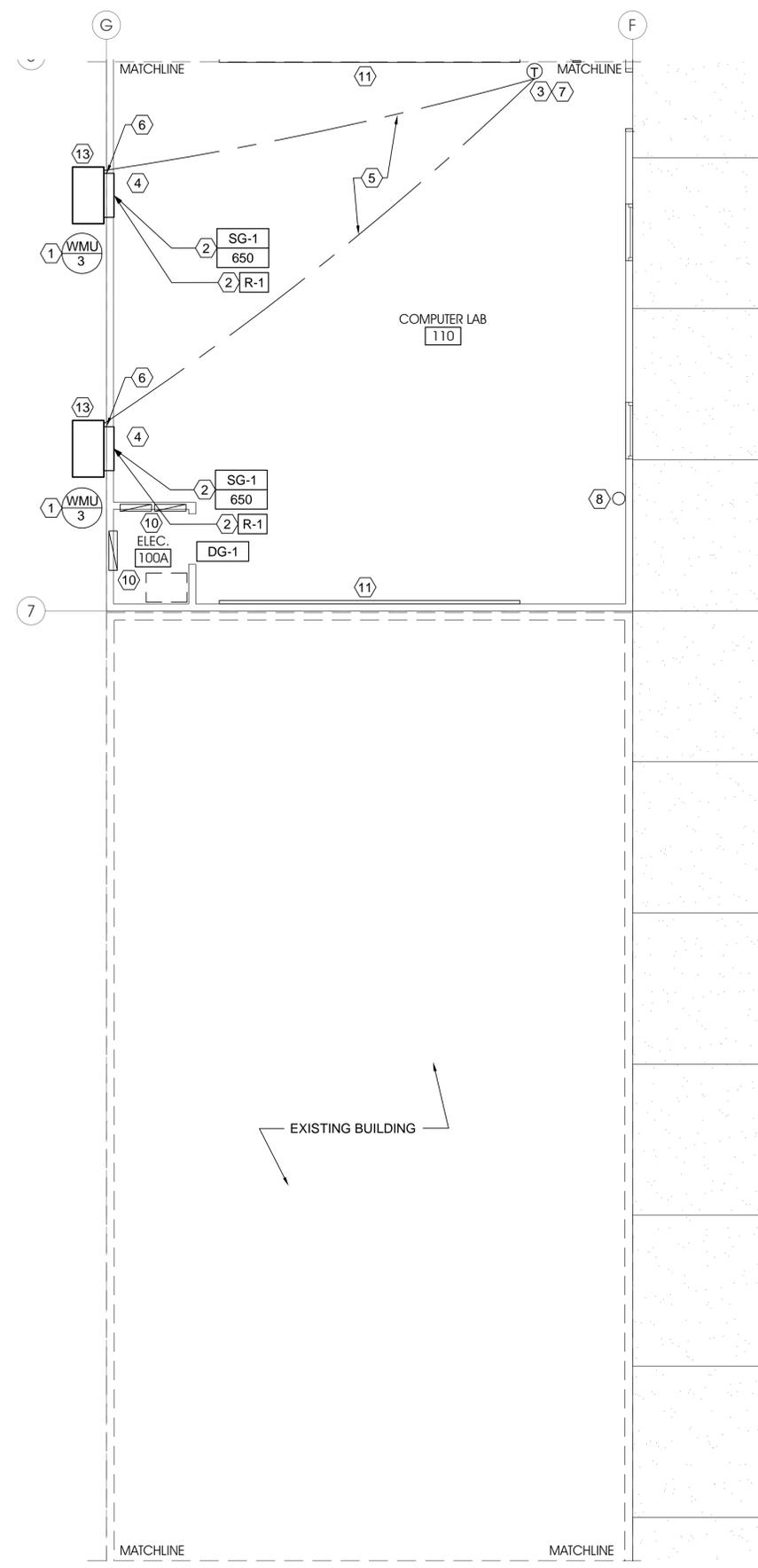
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ME103

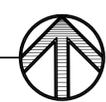
SHEET NOTES:

- 1 PROVIDE NEW EXTERIOR WALL MOUNTED ELECTRIC HEATING AND COOLING UNITS. INSTALL UNIT PER MANUFACTURERS INSTRUCTION. SEE SCHEDULE SHEET ME601.
- 2 PROVIDE SUPPLY AIR GRILLE HIGH AND RETURN AIR GRILLE (LOW).
- 3 PROVIDE THERMOSTAT ONE(1) EACH ROOM TO CONTROL BOTH UNITS.
- 4 COORDINATE WITH FURNITURE LAYOUT AND LOCATE HEATING AND COOLING UNITS TO AVOID FURNITURE, FIXTURES ETC.
- 5 ROUTE ALL CONTROL WIRING IN CONDUIT IN WALLS AND ABOVE CEILING.
- 6 ALL OPENINGS THRU THE WALLS FOR THE SUPPLY AND RETURN AIR SHALL BE SEALED AIR AND WATER TIGHT.
- 7 COORDINATE LOCATION OF THERMOSTATS WITH MARKER BOARDS, SIGNS, FIRE EXTINGUISHERS, ETC.
- 8 FIRE EXTINGUISHERS - SEE ARCHITECTURAL DRAWINGS - BY G.C.
- 9 OCCUPANCY SIGNS - SEE ARCHITECTURAL DRAWINGS - BY G.C.
- 10 ELECTRICAL PANEL - SEE ELECTRICAL DRAWINGS - BY E.C.
- 11 MARKER BOARD - SEE ARCHITECTURAL DRAWINGS - BY G.C.
- 12 OUTER DOWN SPOUT AND DRAIN PIPING TO SUMP. SEE ARCHITECTURAL DRAWINGS BY G.C.
- 13 CONDENSATE DRAIN FROM UNIT SHALL BE PIPED TO GRADE.



MECHANICAL FLOOR PLANS

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





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MECHANICAL DETAILS

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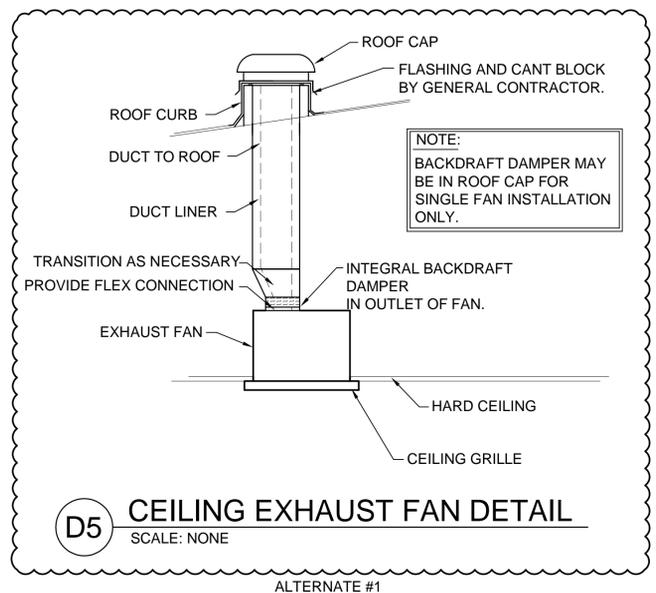
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ME501

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

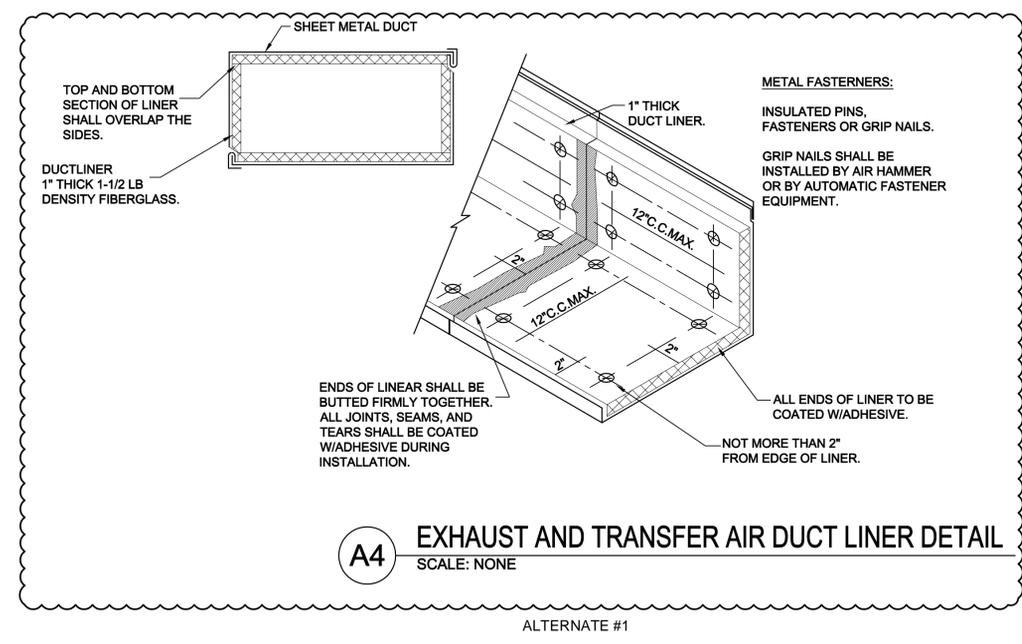
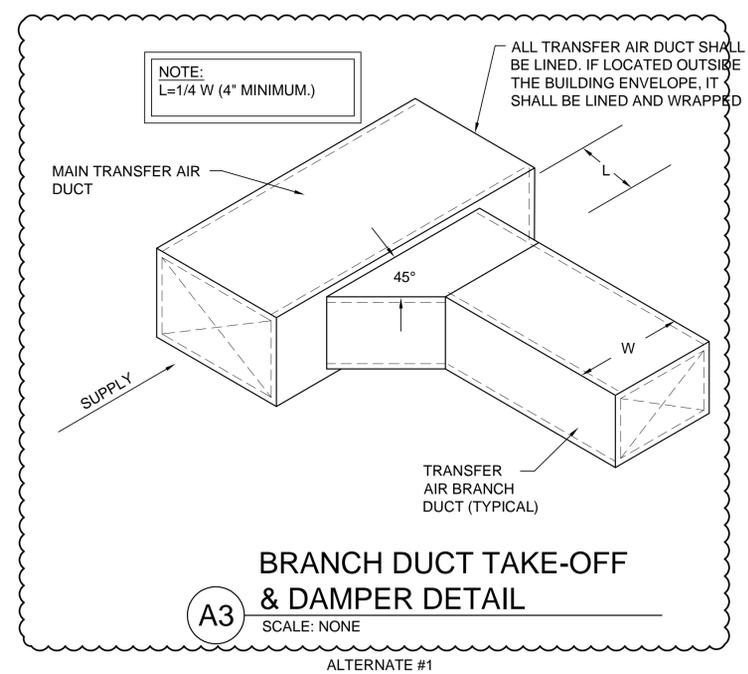
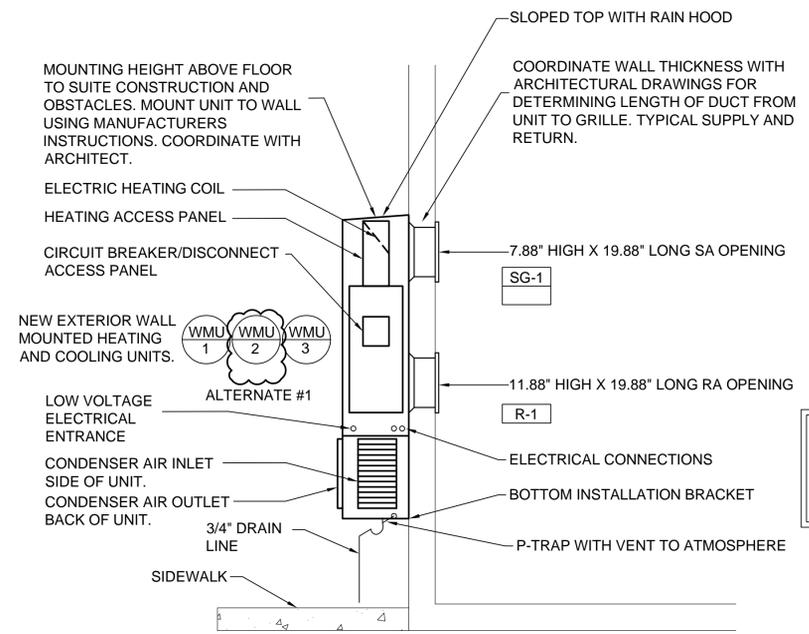
1. TRANSVERSE REINFORCING SIZE IS DETERMINED BY DIMENSION OF SIDE TO WHICH ANGLE IS APPLIED.

D3 DUCT CONSTRUCTION DETAIL
 SCALE: NONE



DUCT DIAMETER IN INCHES	LOW PRESSURE ROUND DUCT CONSTRUCTION SCHEDULE			
	MAXIMUM 2" W.G. STATIC POSITIVE		MAXIMUM 2" W.G. STATIC NEGATIVE	
	SPIRAL SEAM GAUGE	LONGITUDINAL SEAM GAUGE	SPIRAL SEAM GAUGE	LONGITUDINAL SEAM GAUGE
3 thru 8	28	28	28	24
9 thru 14	28	26	26	24
15 thru 26	26	24	24	22
27 thru 36	24	22	22	20
37 thru 50	22	20	20	18

B4 LOW PRESSURE ROUND DUCT CONSTRUCTION DETAIL
 SCALE: NONE





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ME601

WALL MOUNTED AIR CONDITIONING/HEATING UNIT

SYMBOL	MANUFACTURER & MODEL NUMBER	SA CFM	OSA CFM	E.S.P. IN W.G.	HEATING			COOLING			ELECTRICAL					EER	OPER. WT. (LBS)	COMMENTS	SCHEDULE NOTES
					TOT. MIN. INPUT MBH	AMB. AIR (DB)	AMB. AIR (WB)	MIN. TOTAL MBH	V - Ø - Hz	COMPRESSOR #	COMPRESSOR TOTAL RLA	COMPRESSOR TOTAL LRA	MCA	MOCP					
WMMU 1	BARD WA 182-A	650	25%	.4	20.5 6KW 28.8A	95	65	18.3	208-1-60	1	8.0	49	45	45	9.20	300	-	1,2,3,4	
WMMU 2	BARD WA 253-A	800	25%	.20	20.5 6KW 28.8A	95	65	23	208-1-60	1	8.6/9.5	54	45	45	9.8	300	-	1,2,3,4	
WMMU 3	BARD WA 182-A	650	25%	.20	20.5 6KW 28.8A	95	65	18.3	208-1-60	1	8.0	49	45	45	9.2	300	-	1,2,3,4	

- 1 E.S. P. DOES NOT INCLUDE LOSSES THROUGH ACCESSORIES.
- 2 RATED MINIMUM INPUT AT SEA LEVEL.
- 3 UNIT TO BE MOUNTED TO WALL USING BUILT IN SIDEWALL MOUNTING BRACKETS.
- 4 PROVIDE WITH INTEGRAL SIDEWALL SUPPLY AND RETURN GRILLES.

ALTERNATE #1

ELECTRIC CEILING PANEL SCHEDULE

SYMBOL	ELECTRICAL DATA 208 V				MANUFACTURER AND MODEL NUMBER	REMARKS
	BTUH	WATTS	PH	HZ		
ECP 1	1500	500	1φ	60	QMARK AZTEC ATL24488A	1,2,3

- 1. PROVIDE WITH RECESS MOUNTING KIT.
- 2. PROVIDE WITH PACKAGED THERMOSTAT AND CONTROLS.
- 3. PROVIDE WITH HEAVY DUTY PANELS/VANDALL PROOF.

ALTERNATE #1

EXHAUST FAN SCHEDULE

SYMBOL	MANUFACTURER & MODEL No.	SERVES	C.F.M.	STATIC PRESSURE IN. WG.	MAX NOISE SONES	MOTOR				OPER. WT. (LBS)	COMMENTS	SCHEDULE NOTES
						V - Ø - Hz	HP	WATTS	RPM			
EF 1	PENN ZEPHYR Z8H	FACULTY	370	.25	4.85	115-1-60	1/12	129	1550	20	CEILING MOUNT	2,3,4
EF 2	PENN ZEPHYR Z8H	GREENTHUMB	370	.25	4.85	115-1-60	1/12	129	1550	20	CEILING MOUNT	2,3,4
EF 3	PENN ZEPHYR ZT	JANITOR 109C	65	.25	3.24	115-1-60	0.022	48	1200	15	CEILING MOUNT	1,3,4
EF 4	PENN ZEPHYR ZT	JANITOR 109D	65	.25	3.24	115-1-60	0.022	48	1200	15	CEILING MOUNT	1,3,4
EF 5	PENN ZEPHYR Z5H	RESTROOM 108F	70	.25	2.82	115-1-60	0.016	79	1550	14	CEILING MOUNT	2,3,4
EF 6	PENN ZEPHYR Z121S	INMATE RESTROOM 109M	750	.25	5.86	115-1-60	1/5	368	1050	44	CEILING MOUNT	2,3,4

- 1. CONTROL WITH WALL SWITCH.
- 2. CONTROL WITH LIGHT SWITCH.
- 3. SEE SPECIFICATIONS FOR APPROVED MANUFACTURERS.
- 4. SEE DETAIL.

REGISTER, LOUVER & GRILLE SCHEDULE

SYMBOL	TYPE	SERVICE	MAX CFM	NOMINAL SIZE	THROAT SIZE	CEILING TYPE	COMMENTS	SCHEDULE NOTES
SG-1 CFM	SIDEWALL	SUPPLY	650	-	-	-	-	5
SG-2 CFM	SIDEWALL	SUPPLY	800	-	-	-	-	5
R-1	WALL	RETURN	-	-	-	-	-	5
R-2	WALL	RETURN	-	-	-	-	-	5
TG-1	CEILING	TRANSFER	300	10x10	10x10	HARD	PRICE 535	1,2,3,4
TG-2	CEILING	TRANSFER	150	6x6	6x6	LAY-IN & HARD	PRICE 535	1,2,3,4
TG-3	CEILING	TRANSFER	500	12x12	12x12	LAY-IN & HARD	PRICE 535	1,2,3,4
DG-1	DOOR	TRANSFER	60	12x12	-	-	PRICE STG1	2,4

REGISTER, LOUVER AND DIFFUSER SCHEDULE NOTES:

- 1. MAXIMUM NC = 25 @ MAXIMUM CFM NOTED.
- 2. SEE SPECIFICATIONS FOR APPROVED MANUFACTURERS.
- 3. FINISH SHALL BE OFF-WHITE BAKED ENAMEL.
- 4. BAKED ENAMEL FINISH WITH COLOR AS DIRECTED BY ARCHITECT.
- 5. SIDEWALL SUPPLY AND RETURN GRILLES SHALL BE FURNISHED INTEGRAL WITH WALL MOUNTED UNITS.

D

C

B

A

PLUMBING CONSTRUCTION NOTES:

- G-1** ALL PLUMBING SHALL BE INSTALLED AND CONFORM TO THE 2003 EDITION OF THE INTERNATIONAL PLUMBING CODE (IPC) WITH UTAH ANNOTATIONS AND DFCM REQUIREMENTS.
- G-2** ALL PIPING MATERIALS SHALL MEET ALL REQUIREMENTS OF IPC AND DFCM.
- G-3** ALL MATERIALS SHALL BE NEW AND SHALL BE DOMESTIC MADE UNLESS SPECIFICALLY APPROVED IN WRITING BY ENGINEER OR OWNER.
- G-4** PROVIDE VACUUM BREAKERS AND BACK FLOW PREVENTERS WHERE REQUIRED BY CODE OR WHERE THERE MAY BE ANY POSSIBLE CHANCE FOR CROSS CONTAMINATION. BACKFLOW PREVENTERS SHALL BE INSTALLED IN ACCORDANCE WITH IPC.
- G-5** ALL PLUMBING INFORMATION IS NOT LIMITED TO THE PLUMBING DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR INFORMATION ON ALL OTHER CONSTRUCTION DOCUMENTS INCLUDING ARCHITECTURAL DRAWING, STRUCTURAL DRAWINGS, MECHANICAL DRAWINGS, AND ELECTRICAL DRAWINGS.
- G-6** 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 PIPING SHALL BE COORDINATED WITH THE ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS. PIPING SHALL BE INSTALLED PARALLEL AND PERPENDICULAR WITH WALLS, FLOOR ETC. VERTICAL PIPING SHALL BE PLUMB.
- G-7** COORDINATE THE INSTALLATION OF ALL PIPING AND PLUMBING EQUIPMENT WITH ALL OTHER TRADES AND/OR CONTRACTORS PRIOR TO INSTALLATION.
- G-8** ANY AND ALL ALTERATIONS TO THE SYSTEM SHOWN SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR AND ARCHITECT/ENGINEER SHALL BE NOTIFIED IN WRITING PRIOR TO CHANGES.
- G-9** ALL WATER SYSTEMS SHALL MEET THE REQUIREMENTS OF ANS/NSF STANDARD 61 LATEST EDITION, CONCERNING METAL CONTAMINANTS IN THE WATER SYSTEM.
- G-10** WATER HAMMER ARRESTORS SHALL BE INSTALLED IN ALL WATER LINES WITH QUICK OPENING OR CLOSING VALVES.

WATER HAMMER ARRESTOR SCHEDULE:
TYPE A 01-11 FIXTURE UNITS
TYPE B 12-32 FIXTURE UNITS
TYPE C 33-60 FIXTURE UNITS
TYPE D 61-113 FIXTURE UNITS
- G-11** COORDINATE ALL UTILITY TIE-INS WITH OWNER. VERIFY ALL INVERT ELEVATIONS, CONDITIONS FOR TIE-INS, LOCATION OF OTHER UNDERGROUND UTILITIES. SEE CIVIL DRAWINGS AND SITE UTILITY DRAWINGS.

PLUMBING LEGEND			
MEANING	SYMBOL OR ABBREVIATION	MEANING	SYMBOL OR ABBREVIATION
HOT WATER LINE	----	WALL CLEAN-OUT	WCO
COLD WATER LINE	----	CLEANOUT	CO
VENT LINE	— V — — V —	CLEANOUT TO GRADE	COTG
WASTE LINE	----	FLOOR CLEAN-OUT	FCO
CONNECTION TO EXISTING PIPING	⊕	BALL VALVE	⊕
VENT THRU ROOF	VTR	UNION	— —

AJC PROJECT # 0502



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**PLUMBING GENERAL
NOTES AND LEGEND**

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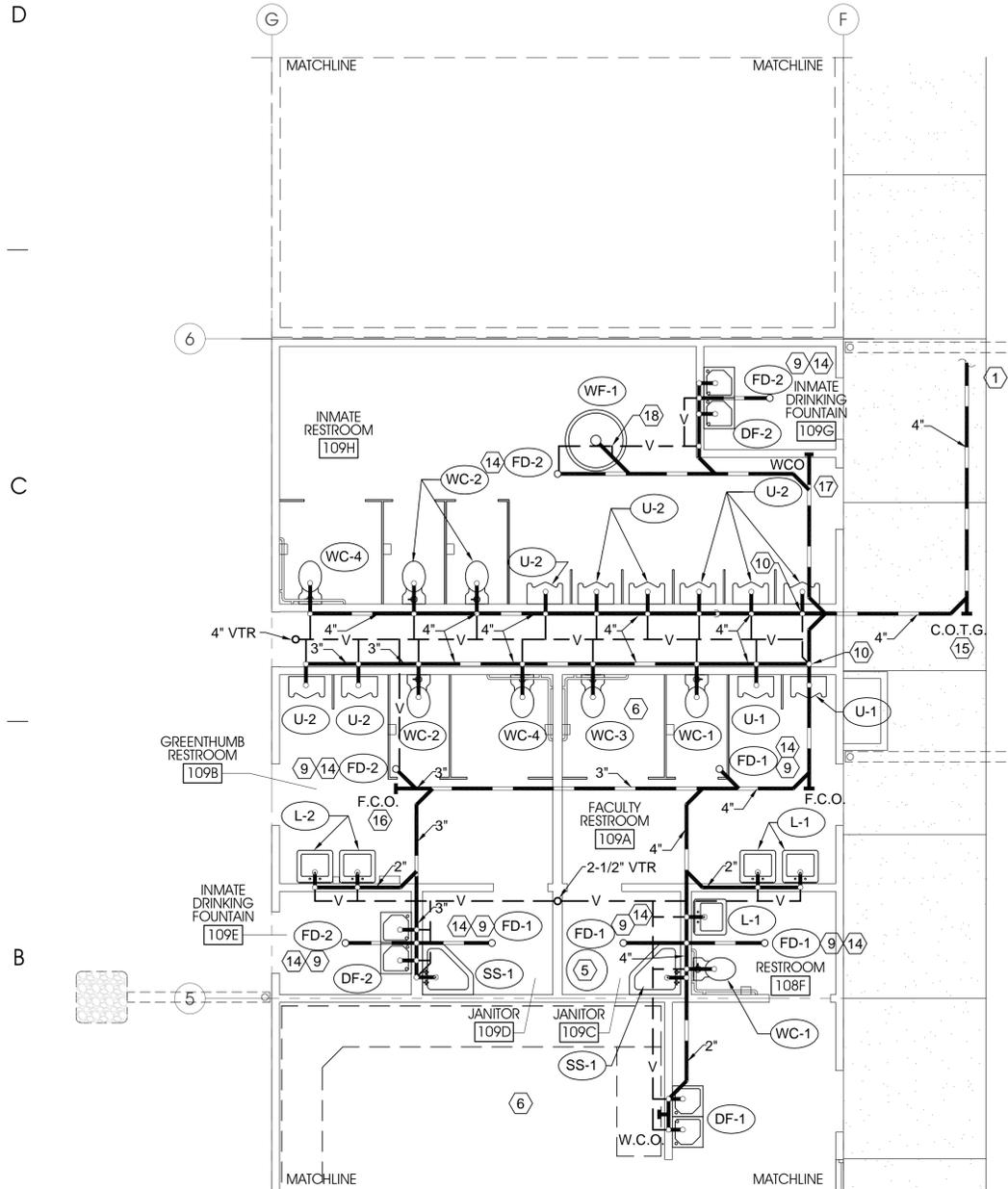
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PE101

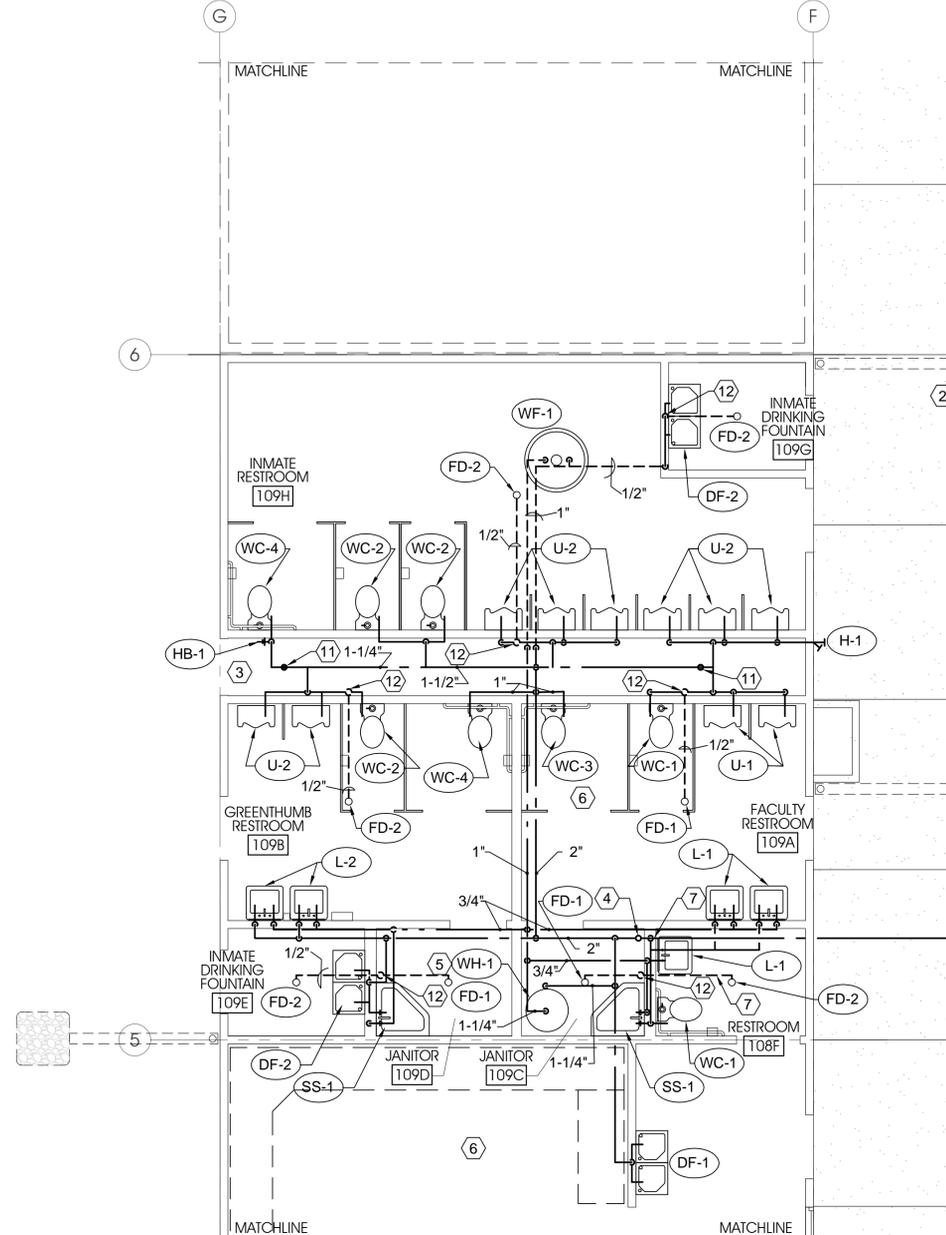
SHEET NOTES:

- BASE BID (1) EXTEND NEW 4" SEWER TO EXISTING MANHOLE. SEE SITE UTILITY PLAN FOR CONTINUATION. FIELD VERIFY INVERT ELEVATIONS.
- BASE BID (2) EXTEND 2-1/2" WATER SERVICE CONNECTION. SEE SITE UTILITY PLAN FOR CONTINUATION.
- BASE BID (3) ALL PIPING DROPS SHALL BE LOCATED INSIDE THE PIPE CHASES WHEREVER POSSIBLE.
- BASE BID (4) RISE 2-1/2" WATER SERVICE AT THIS LOCATION AND PROVIDE WATER HEADER PRV STATION. SEE HEADER DETAIL C1/PE501.
- ALTERNATE #1 (5) ELECTRIC WATER HEATER. SEE DETAIL C2/PE501.
- (6) SEE SHEET PE901 FOR PIPING ISOMETRICS OF WASTE, VENT, AND WATER PIPING.
- BASE BID (7) ROUTE 1/2" CW TRAP PRIMER LINE UNDER FLOOR TO RISER IN JANITORS ROOM (109C).
- ALTERNATE #1 (8) SEE PLUMBING FIXTURE SCHEDULE SHEET PE501 FOR INDIVIDUAL PIPE SIZE TO FIXTURES.
- BASE BID (9) COMBINATION WASTE AND VENT PIPING. VENT NOT REQUIRED IF DRAIN IS WITHIN 5' OF VENTED LINE.
- BASE BID (10) DROP 4" SEWER PIPING UNDER FLOOR AND ROUTE TO EXISTING MANHOLE. SEE SITE UTILITY PLAN FOR CONTINUATION.
- ALTERNATE #1 (11) TYPE C WATER HAMMER ARRESTORS.
- ALTERNATE #1 (12) SINGLE AND DOUBLE TRAP PRIMERS. SEE DETAIL A2/PE501.
- BASE BID (13) HOT AND COLD WATER PIPING UNDER FLOOR RISE UP TO WASH FOUNTAIN. ROUTE IN PVC SCH. 40 PIPE.
- ALTERNATE #1 (14) FLOOR DRAIN. SEE DETAIL A1/PE501.
- BASE BID (15) CLEAN OUT TO GRADE. SEE DETAIL B4/PE501.
- BASE BID (16) FLOOR CLEAN OUT. SEE DETAIL B4/PE501.
- ALTERNATE #1 (17) WALL CLEAN OUT. SEE DETAIL B1/PE501.
- BASE BID (18) CONNECT WASH FOUNTAIN VENT TO FLOOR DRAIN VENT UNDERFLOOR AND ROUTE TO WALL.



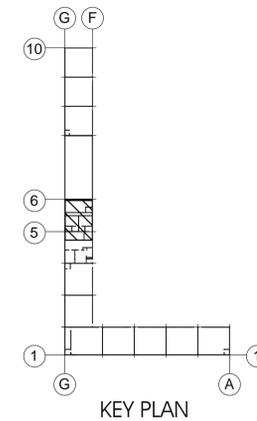
SEWER WASTE AND VENT PIPING PLAN

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



HOT AND COLD CULINARY WATER PIPING PLAN

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



KEY PLAN



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**PLUMBING DETAILS
 AND SCHEDULES**

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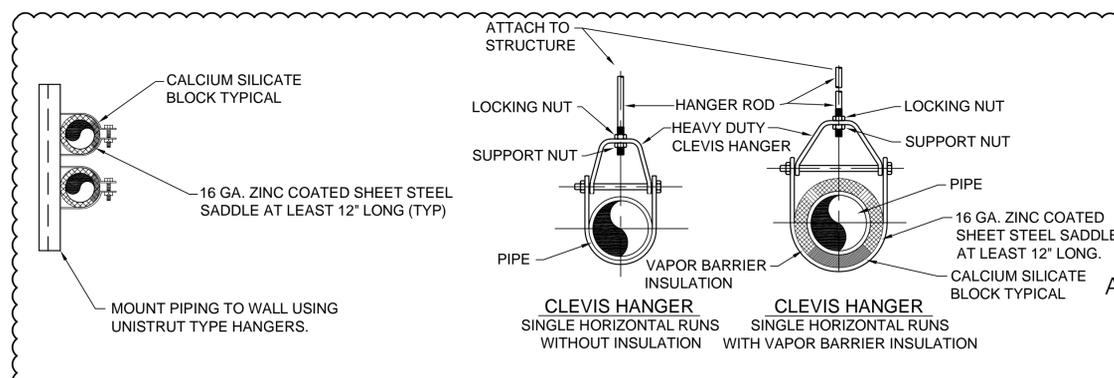
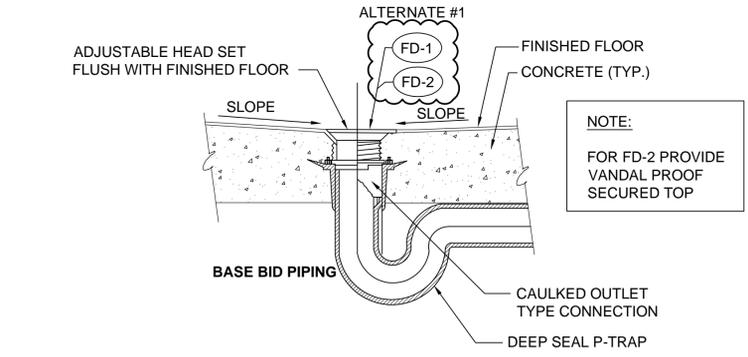
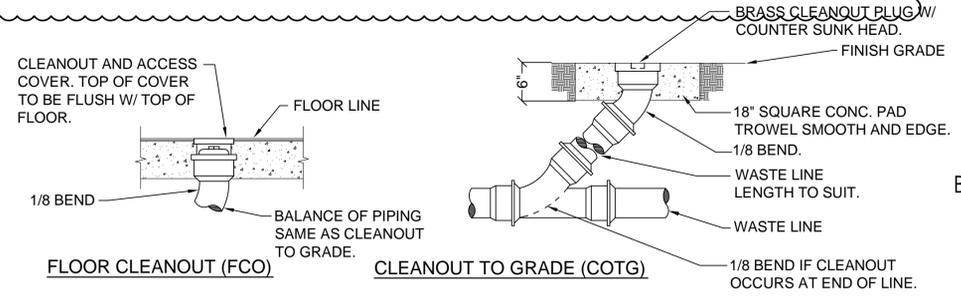
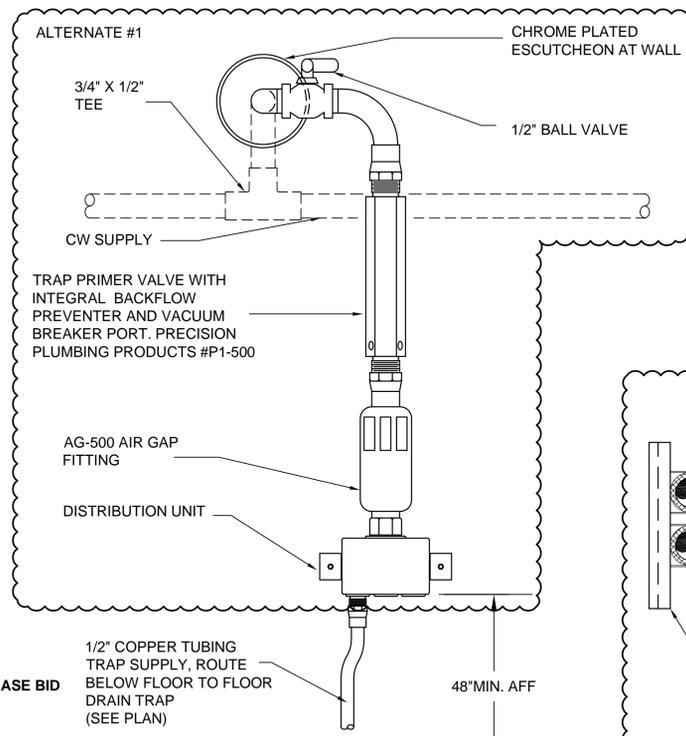
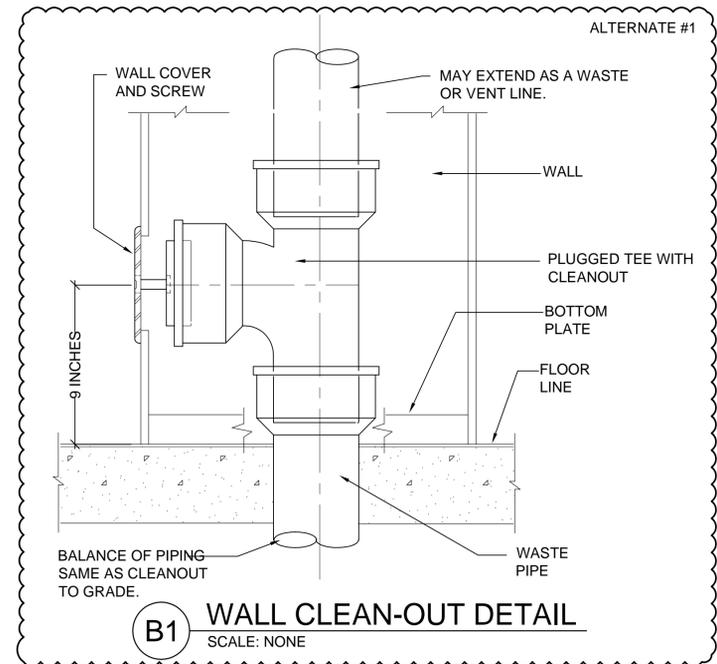
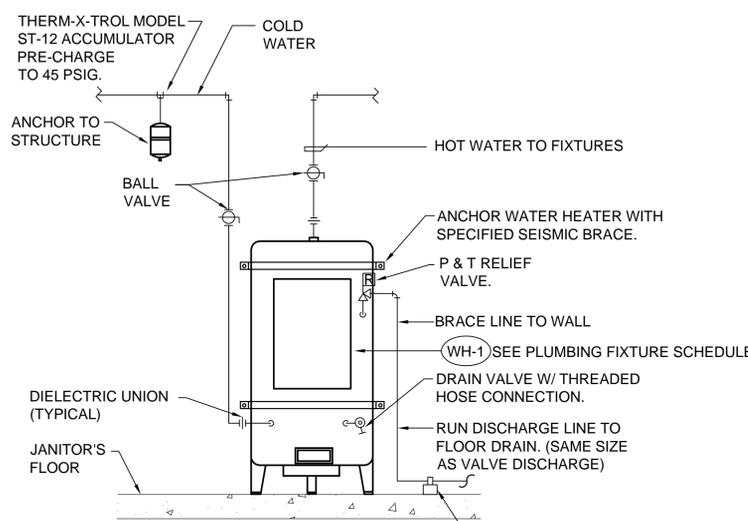
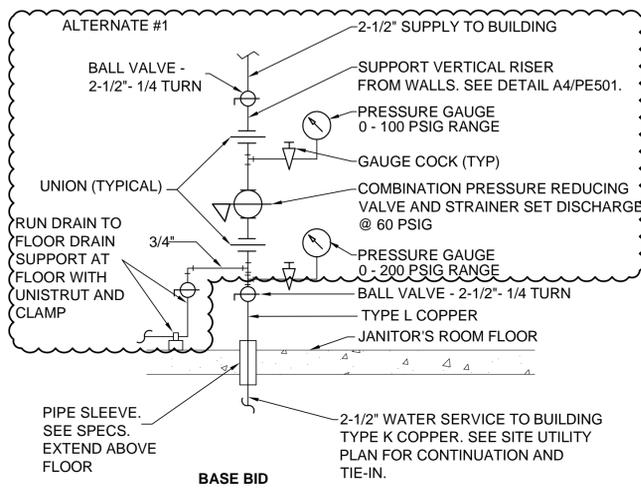
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PE501

ALTERNATE #1

PLUMBING FIXTURE SCHEDULE

SYMBOL	FIXTURE	INDIVIDUAL LINE SIZES					REMARKS
		TRAP	WASTE	VENT	COLD WATER	HOT WATER	
WC-1	WATER CLOSET	INT	4"	2"	1"	-	WALL HUNG, FLUSH VALVE
WC-2	WATER CLOSET	INT	4"	2"	1"	-	WALL HUNG, FLUSH VALVE IN CHASE
WC-3	ADA WATER CLOSET	INT	4"	2"	1"	-	ADA WALL HUNG, FLUSH VALVE
WC-4	ADA WATER CLOSET	INT	4"	2"	1"	-	ADA WALL HUNG, FLUSH VALVE IN CHASE
WF-1	WASH FOUNTAIN	2"	2"	1-1/2"	1"	1"	STAINLESS STEEL, FULL CIRCLE - 36"
U-1	URINAL	3"	3"	2"	3/4"	-	ADA WALL MOUNTED, AUTO FLUSH VALVE
U-2	URINAL	3"	3"	2"	3/4"	-	ADA WALL MOUNTED, AUTO FLUSH VALVE IN CHASE
L-1	LAVATORY	1-1/4"	1-1/2"	1-1/2"	1/2"	1/2"	WALL MOUNTED ADA - AUTO FAUCET
L-2	LAVATORY	1-1/4"	1-1/2"	1-1/2"	1/2"	1/2"	WALL MOUNTED ADA - AUTO FAUCET-VANDAL PROOF
FD-1	FLOOR DRAIN	3"	3"	2"	-	-	WITH DEEP SEAL P-TRAP, TRAP PRIMER
FD-2	FLOOR DRAIN	3"	3"	2"	-	-	WITH DEEP SEAL P-TRAP, TRAP PRIMER. VANDAL PROOF
WH-1	WATER HEATER	-	-	-	1-1/4"	1-1/4"	40 GALLON, 37 GPH RECOVERY @ 100° TEMPERATURE RISE. STATE MODEL SB6-40-9-IFE OR EQUAL
SS-1	SERVICE SINK	3"	3"	2"	3/4"	1/2"	FLOOR MOUNTED CORNER W/VACUUM BREAKER
HB-1	HOSE BIBB	-	-	-	1/2"	-	VACUUM BREAKER
H-1	HYDRANT	-	-	-	3/4"	-	FREEZE PROOF/VACUUM BREAKER-VANDAL PROOF STRAINER
DF-1	DRINKING FOUNTAIN	1-1/4"	1-1/2"	1-1/2"	1/2"	-	WALL HUNG-REFRIGERATED HI-LOW
DF-2	DRINKING FOUNTAIN	1-1/4"	1-1/2"	1-1/2"	1/2"	-	WALL HUNG-HI-LOW TYPE VANDAL PROOF



A2 TRAP PRIMER DETAIL
 SCALE: NONE

A4 PIPE HANGER DETAIL
 SCALE: NONE



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STATE CENTER AT
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DRAPER, UTAH

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ISSUE DATA

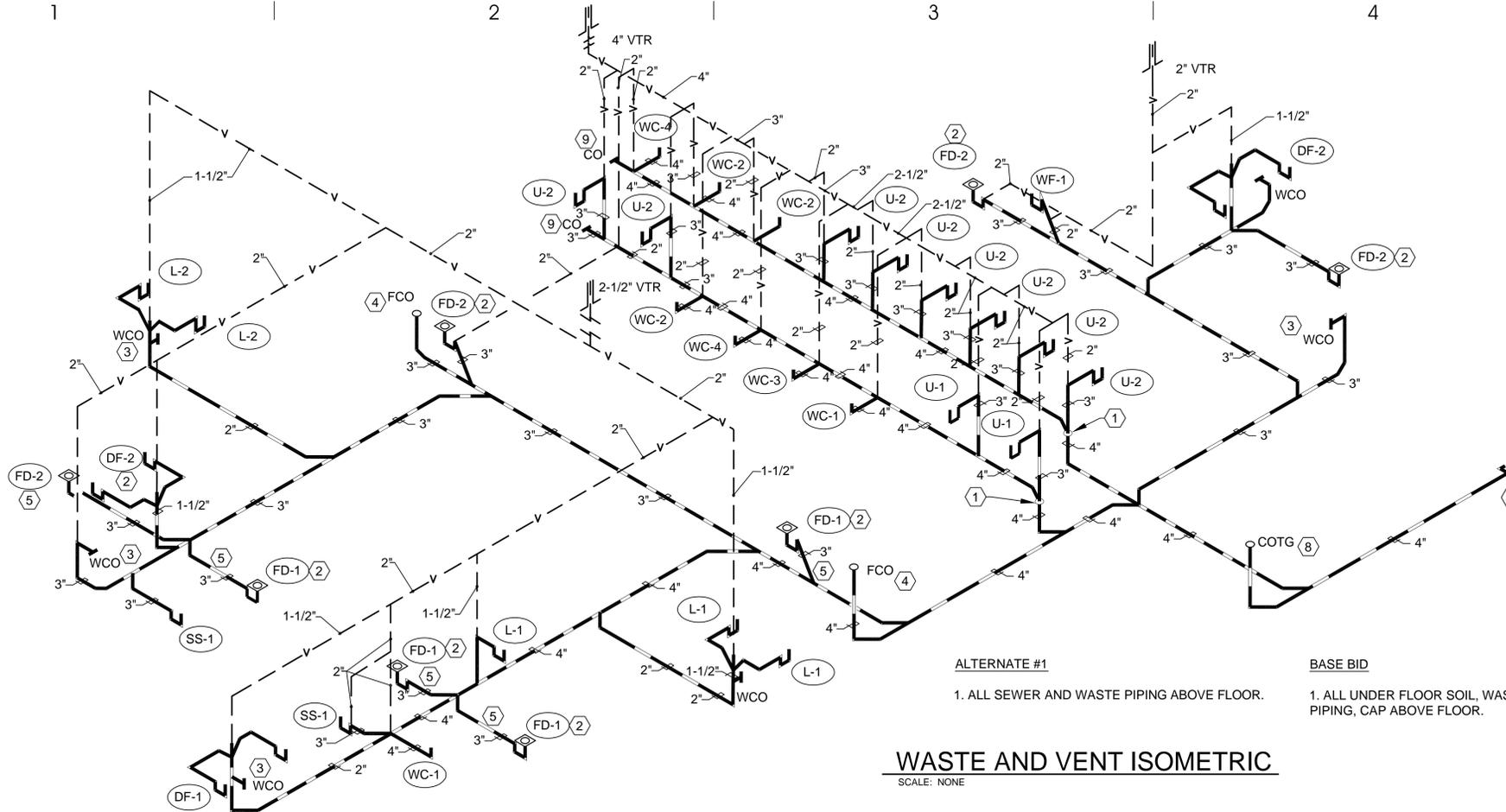
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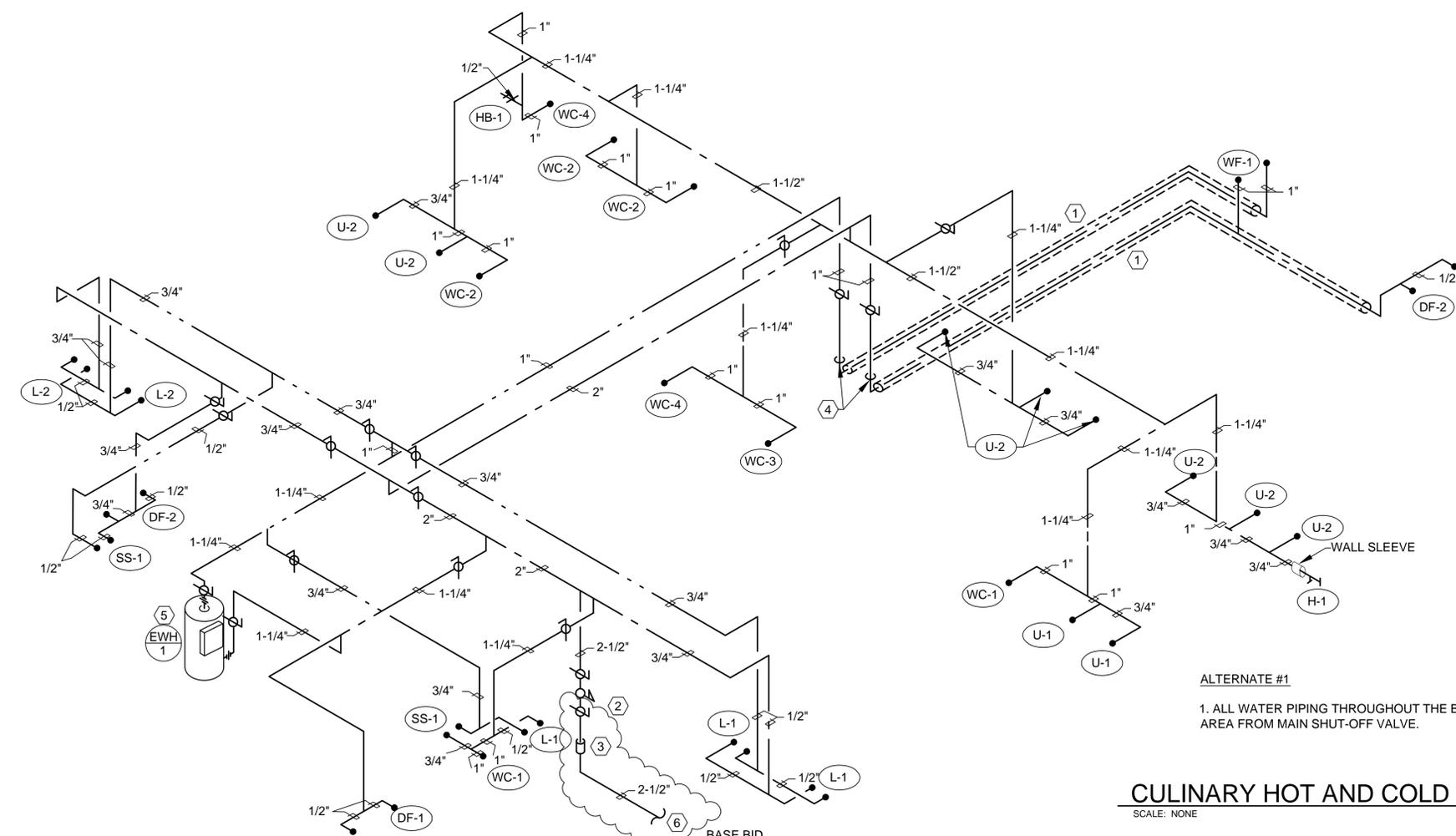
WASTE AND VENT NOTES:

- BASE BID ① DROP 4" SOIL PIPING UNDER FLOOR IN PIPE CHASE.
- ALTERNATE #1 ② SEE FLOOR DRAIN DETAIL B3/PE501.
- ALTERNATE #1 ③ SEE WALL CLEAN OUT DETAIL A1/PE501.
- BASE BID ④ FLOOR CLEAN OUT SEE DETAIL A3/PE501.
- BASE BID ⑤ FLOOR DRAINS WITHIN 5'-0" OF VENTED LINE (COMBINATION WASTE AND VENT) DO NOT NEED TO BE VENTED.
- BASE BID ⑥ SEE SITE UTILITY PLAN FOR CONTINUATION AND CONNECTION TO EXISTING SEWER LINE.
- ALTERNATE #1 ⑦ SEE PLUMBING FIXTURE SHEET PE501.
- BASE BID ⑧ SEE CLEAN OUT TO GRADE DETAIL A3/PE501.
- BASE BID ⑨ END OF MAIN CLEAN OUT.



WATER ISOMETRIC NOTES:

- BASE BID ① ROUTE HOT AND COLD WATER PIPING UNDER FLOOR. PLACE INSIDE PVC JACKET LARGE ENOUGH FOR 1" DIAMETER COPPER TYPE K PIPING WITH 1-1/2" OF INSULATION.
- ALTERNATE #1 ② 2-1/2" WATER HEADER PRV STATION. SEE DETAIL C1/PE501
- BASE BID ③ FLOOR PENETRATION. EXTEND SLEEVE ABOVE FLOOR.
- BASE BID ④ DROP UNDER FLOOR.
- ALTERNATE #1 ⑤ ELECTRIC WATER HEATER DETAIL C2/PE501.
- BASE BID ⑥ 2-1/2" WATER SERVICE TO BUILDING. SEE SITE UTILITY PLAN FOR CONTINUATION.
- ⑦ SEE SHEET PE101 FOR PLAN VIEW.



TELEPHONE KEYED NOTES:

- (T1) EXISTING TELEPHONE PEDESTAL TERMINAL TO REMAIN.
- (T2) EXISTING TELEPHONE TERMINAL CABINET MOUNTED ON EXISTING BUILDING TO REMAIN.
- (T3) EXISTING (2) 3" PVC UNDERGROUND FROM EXISTING TELEPHONE PEDESTAL TERMINAL TO EXISTING TELEPHONE TERMINAL CABINET TO REMAIN.
- (T4) EXISTING 3" PVC UNDERGROUND TELEPHONE CONDUIT FROM EXISTING TELEPHONE TERMINAL CABINET TO EXISTING TELE/DATA TERMINAL BOARD TO REMAIN.
- (T5) NEW 4" PVC UNDERGROUND FROM EXISTING TELEPHONE PEDESTAL TERMINAL TO NEW TELE/DATA CABINET #1.
- (T6) NEW 4" PVC UNDERGROUND FROM NEW TELE/DATA CABINET TO NEW TELE/DATA CABINET.
- (T7) NEW TELE/DATA CABINET, SEE TELE/DATA RISER DIAGRAM, SHEET E-001 FOR REQUIREMENTS.
- (T8) NEW TWO (2) 1" PVC FROM NEW FIRE ALARM SYSTEM LOOP TO NEW FIRE ALARM CONTROL PANEL 'FACP', SEE FIRE ALARM SYSTEM PLANS, SHEET FA101 FOR REQUIREMENTS.
- (T9) NEW ONE (1) 1" PVC FROM NEW FIRE ALARM CONTROL PANEL 'FACP' TO EXISTING TELEPHONE TERMINAL CABINET FOR FIRE ALARM NETWORK CONNECTION. SEE FIRE ALARM SYSTEM PLANS, SHEET FA101 FOR REQUIREMENTS.

GENERAL NOTES:

1. BURY ALL UNDERGROUND CONDUITS MINIMUM 24" BELOW FINISH GRADE WITH RED MAGNETIC WARNING TAPE STATING 'CAUTION - BURIED ELECTRICAL' 12 INCHES ABOVE THE CONDUIT.
2. USE GALVANIZED RIGID STEEL CONDUIT (GRC) FOR ALL CONDUIT THROUGH GRADE AND ELBOWS IN PVC CONDUIT RUNS. CORROSION PROTECT GRC CONDUIT IN ACCORDANCE WITH SPECIFICATION SECTION 16110.
3. PROVIDE MINIMUM 36" RADIUS GRC ELBOWS FOR NEW TELEPHONE SERVICE CONDUITS.
4. PROVIDE 1/4" NYLON FULL ROPE IN NEW TELEPHONE SERVICE CONDUITS.
5. COORDINATE ELECTRICAL SITE WORK WITH ARCHITECTURAL SITE PLAN, SHEET AS101, CIVIL PLANS, GENERAL CONTRACTOR, MECHANICAL CONTRACTOR AND LANDSCAPING CONTRACTOR. INSTALL UNDERGROUND CONDUITS SUCH THAT CONDUITS WILL NOT BE DAMAGED BY SUBSEQUENT INSTALLATION OF TREES AND SHRUBBERY.
6. COORDINATE INSTALLATION OF NEW TELEPHONE SERVICE WITH OWNER TELEPHONE VENDOR PRIOR TO BEGINNING WORK.
7. POWER OUTAGES TO THE EXISTING BUILDINGS WILL NOT BE ALLOWED EXCEPT AS DIRECTED BY OWNER. SUBMIT REQUESTS FOR POWER OUTAGES TO THE OWNER MINIMUM SEVEN (7) DAYS PRIOR TO ANY PROPOSED POWER OUTAGES. DO NOT TAKE ANY POWER OUTAGES WITHOUT OWNER'S PERMISSION.

DEMOLITION KEYED NOTES:

- (D1) REMOVE EXISTING PEDASTAL MOUNTED METER/PANEL AS REQUIRED TO ALLOW CONSTRUCTION OF NEW BUILDING. SALVAGE METER/PANEL FOR RELOCATION. SEE POWER KEYED NOTES.
- (D2) EXISTING 1" UNDERGROUND CONDUIT FROM EXISTING PANEL #2 TO EXISTING PEDASTAL MOUNTED METER/PANELS TO REMAIN. REMOVE EXISTING 3 # 1 # 8 GND FROM EXISTING CONDUIT TO ALLOW RELOCATION OF EXISTING PEDASTAL. FIELD VERIFY EXISTING CONDUCTOR SIZE.

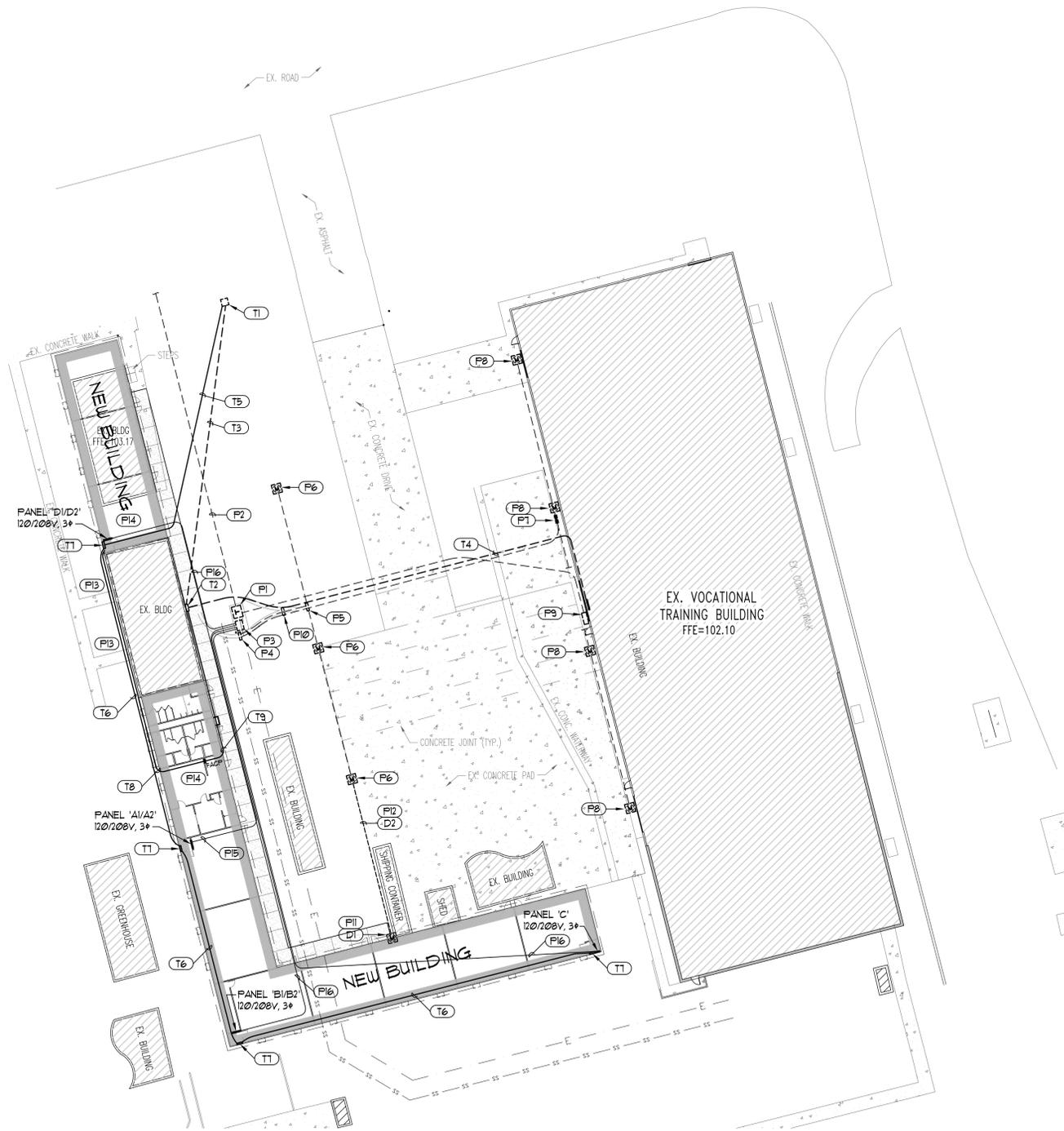
POWER KEYED NOTES:

- (F1) EXISTING PAD MOUNTED, OIL FILLED, DISTRIBUTION TRANSFORMER TO REMAIN. 500 KVA, 12,410GRDY/1200 TO 208Y/120 TO REMAIN.
- (F2) EXISTING UNDERGROUND PRIMARY ELECTRICAL SERVICE TO EXISTING PAD MOUNT TRANSFORMER TO REMAIN.
- (F3) EXISTING DISTRIBUTION PANEL, 1200 AMPERE, 120/208 V, 3#, TO REMAIN.
- (F4) EXISTING POWER PANEL #1, 225 AMPERE, 120/208 V, 3#, AND FEEDER TO EXISTING DISTRIBUTION PANEL TO REMAIN.
- (F5) EXISTING POWER PANEL #2 AND FEEDER TO EXISTING POWER PANEL #1 TO REMAIN.
- (F6) EXISTING PEDESTAL MOUNTED METER/PANEL AND FEEDER TO EXISTING POWER PANEL #2 TO REMAIN.
- (F7) EXISTING POWER PANEL #3 AND FEEDER TO EXISTING POWER PANEL #1 TO REMAIN.
- (F8) EXISTING PEDESTAL MOUNTED METER/PANEL AND FEEDER TO EXISTING POWER PANEL #3 TO REMAIN.
- (F9) EXISTING METERING SWITCHBOARD AND FEEDER TO TO EXISTING TRANSFORMER TO REMAIN.
- (F10) EXISTING 2-1/2" CONDUIT TO EXISTING DISTRIBUTION PANEL AND EXISTING 2" CONDUIT TO BLOCK 'A' STUB ARE TO REMAIN.
- (F11) INSTALL PEDASTAL MOUNTED METER/PANEL SALVAGED FROM DEMOLITION INCLUDED PEDASTAL SUPPORT. FIELD COORDINATE EXACT LOCATION WITH NEW BUILDING AND OWNER.
- (F12) INTERCEPT EXISTING 1" UNDERGROUND CONDUIT FROM PANEL #2 AND EXTEND TO RELOCATED METER/PANEL. PROVIDE NEW 3 # 1 # 8 GND FROM EXISTING PANEL #2 TO RELOCATED METER/PANEL. CONDUCTORS REMOVED FROM DEMOLITION MAY BE USED WHERE OF SUFFICIENT LENGTH. FIELD VERIFY CONDUCTOR SIZE TO MATCH EXISTING CONDUCTORS.
- (F13) HORIZONTAL BORE UNDER EXISTING CONCRETE DRIVEWAY FOR INSTALLATION OF NEW UNDERGROUND ELECTRICAL SERVICE CONDUITS.
- (F14) EXISTING FEEDERS FROM EXISTING DISTRIBUTION PANEL TO ADJACENT BUILDINGS INCLUDING GREENHOUSE ARE ROUTED UNDERGROUND THROUGH LOCATION OF NEW BUILDING. FIELD VERIFY LOCATION ON ALL UNDERGROUND UTILITIES PRIOR TO BEGINNING WORK.
- (F15) NEW 4 # 350 KCM, 1 # 2 GND, 3" PVC UNDERGROUND FROM EXISTING DISTRIBUTION PANEL TO NEW BRANCH PANEL.
- (F16) NEW 4 # 350 KCM, 1 # 2 GND, 3" PVC UNDERGROUND FROM EXISTING DISTRIBUTION PANEL TO NEW BRANCH PANEL.

BIDDING NOTES:

BASE BID:
ALL SITE WORK INCLUDING, BUT NOT LIMITED TO: SITE IMPROVEMENTS AND INFRASTRUCTURE, ALL EXCAVATION FOR UNDERGROUND UTILITIES AND CONCRETE SLABS, FOOTINGS, FOUNDATIONS AND DAMP-PROOFING, ALL UNDER-SLAB PLUMBING AND ELECTRICAL ROUGH-INS, ALL OTHER CONSTRUCTION INDICATED ON PLANS N.I.C. AT THIS TIME.

ADD ALTERNATE #1:
COMPLETE CONSTRUCTION AS SPECIFIED HEREIN FOR THE ENTIRE RESTROOM PORTION OF THE BUILDING LOCATED BETWEEN GRIDS 5 & 6 AS SHOWN ON FLOOR PLANS.



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



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PROJECT DESCRIPTION

ATE CENTER AT
UTAH STATE PRISON
VOCATIONAL
CLASSROOMS

DRAPER, UTAH

SHEET NAME:

ELECTRICAL
SITE PLAN

REVISIONS

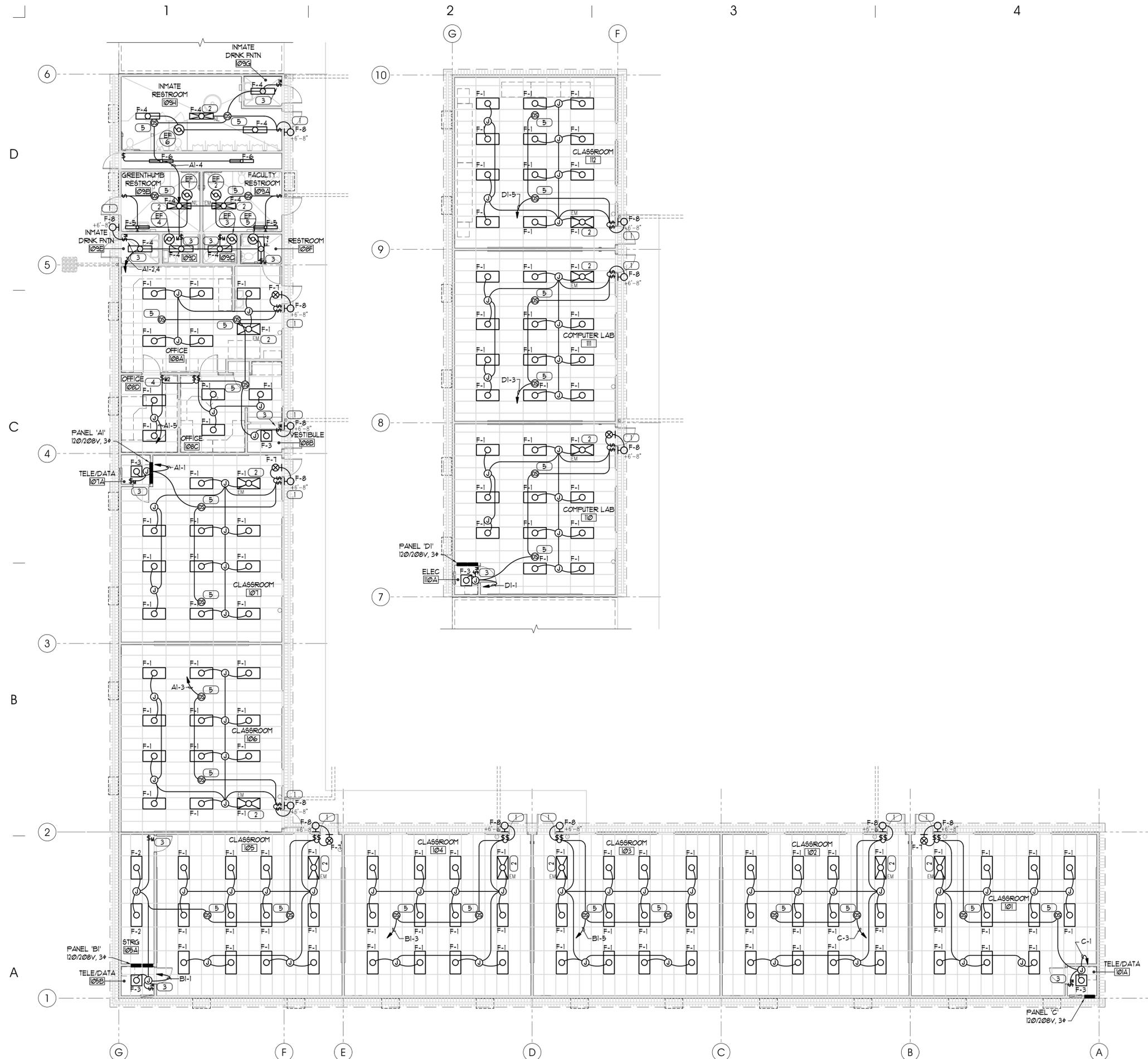
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ES101



GENERAL NOTES:
* FOR SHEET EL101 ONLY

- COORDINATE FIXTURE LOCATIONS WITH ARCHITECT'S REFLECTED CEILING PLAN, CEILING CONTRACTOR, BUILDING STRUCTURE, MECHANICAL EQUIPMENT & DUCTWORK LOCATIONS, ETC.
- WHERE BRANCH CIRCUIT HOMERINGS INDICATE WIRE SIZES, USE THAT SIZE WIRE THROUGHOUT THE BRANCH CIRCUIT, INCLUDING SWITCH LEGS, ETC.
- SECURE CEILING MOUNTED FIXTURES TO THE BOTTOM OF EXPOSED ROOF PURLINS OR TO UNISTRUT SPANS BETWEEN THE ROOF PURLINS AS REQUIRED.

KEYED NOTES:
* FOR SHEET EL101 ONLY

- FIXTURE WITH LOW TEMP EMERGENCY BALLAST, CONNECT TO SAME BRANCH CIRCUIT AS EXTERIOR LIGHTING, AHEAD OF PHOTOCELL.
- PROVIDE FIELD INSTALLED EMERGENCY BATTERY PACK IN FIXTURE INDICATED. CONNECT BATTERY PACK TO THE SAME BRANCH CIRCUIT AS THE LIGHT FIXTURE, AHEAD OF ANY LOCAL SWITCHES. SEE SPECIFICATION SECTION 16500 FOR BATTERY PACK REQUIREMENTS.
- PROVIDE MOTION SENSOR OCCUPANCY SWITCH WITH 300 SQ. FT. OF COVERAGE. INSTALL SWITCH PER MANUFACTURER'S WRITTEN INSTRUCTIONS. SET FOR AUTOMATIC OPERATION. ADJUST SENSITIVITY AND TIMING AS REQUIRED FOR PROPER OPERATION.
- PROVIDE DUAL LEVEL MOTION SENSOR OCCUPANCY SWITCH WITH 300 SQ. FT. OF COVERAGE. CONNECT OUTBOARD LAMPS TO SWITCH LEG AND CONNECT INBOARD LAMP TO OTHER SWITCH LEG. INSTALL SWITCH PER MANUFACTURER'S WRITTEN INSTRUCTIONS. SET FOR AUTOMATIC OPERATION. ADJUST SENSITIVITY AND TIMING AS REQUIRED FOR PROPER OPERATION.
- PROVIDE LARGE ROOM DUAL TECHNOLOGY MOTION SENSOR INCLUDING INTEGRAL SWITCH PACK WITH 4' DIA PASSIVE INFRARED BEAM AND 40'X40' ULTRASONIC COVERAGE FOR HALF-STEP MOTION. CONNECT MULTIPLE SENSORS IN PARALLEL. CONNECT SWITCHES TO LOAD SIDE OF SENSOR. CONNECT OUTBOARD LAMPS TO SWITCH LEG AND CONNECT INBOARD LAMP TO OTHER SWITCH LEG. INSTALL SENSOR PER MANUFACTURER'S SPECIFICATIONS. ADJUST SENSITIVITY, AIMING AND TIMING (30 MIN) AS REQUIRED FOR PROPER OPERATION.

BIDDING NOTES:

BASE BID:
ALL SITE WORK INCLUDING, BUT NOT LIMITED TO: SITE IMPROVEMENTS AND INFRASTRUCTURE, ALL EXCAVATION FOR UNDERGROUND UTILITIES AND CONCRETE SLABS, FOOTINGS, FOUNDATIONS AND DAMP-PROOFING, ALL UNDER-SLAB FLOORING AND ELECTRICAL ROUGH-INS, ALL OTHER CONSTRUCTION INDICATED ON PLANS N.I.C. AT THIS TIME

ADD ALTERNATE #1:
COMPLETE CONSTRUCTION AS SPECIFIED HEREIN FOR THE ENTIRE RESTROOM PORTION OF THE BUILDING LOCATED BETWEEN GRIDS 5 & 6 AS SHOWN ON FLOOR PLANS

ARCHITECT AJC PROJECT # 0502

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PROJECT DESCRIPTION

**ATE CENTER AT
UTAH STATE PRISON
VOCATIONAL
CLASSROOMS**

DRAPER, UTAH

SHEET NAME:

B LIGHTING PLANS

REVISIONS

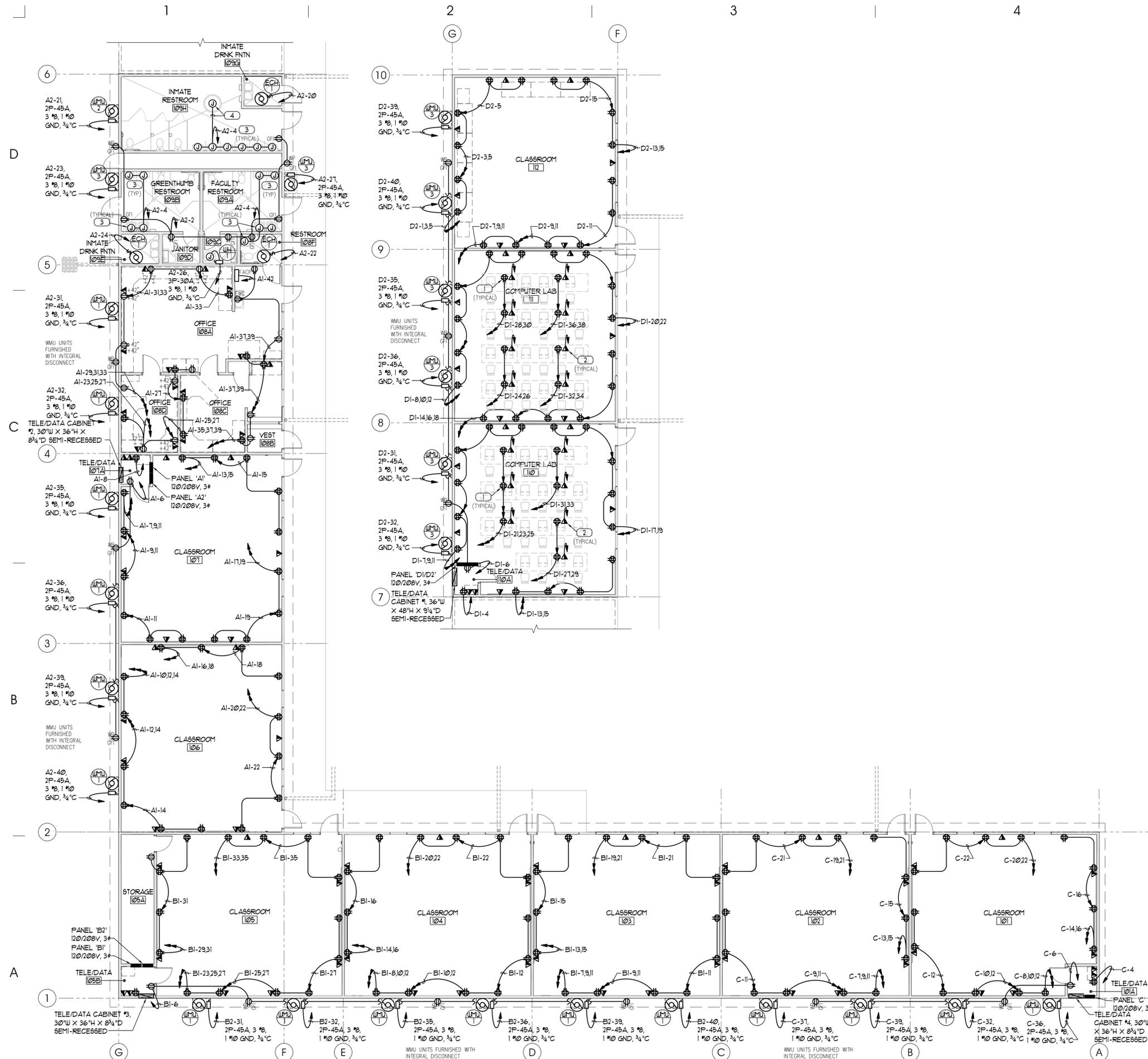
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GENERAL NOTES:
* FOR SHEET EP101 ONLY

- COORDINATE MECHANICAL EQUIPMENT LOCATIONS WITH MECHANICAL PLANS AND MECHANICAL CONTRACTOR.
- COORDINATE RECEPTACLE AND OUTLET LOCATIONS WITH MILLWORK AND OWNER'S FURNITURE LOCATIONS PRIOR TO ROUGHING IN.
- WHERE BRANCH CIRCUIT HOMERUNS INDICATE WIRE SIZES, THE BRANCH CIRCUIT SHALL BE THAT SIZE WIRE THROUGHOUT, INCLUDING SWITCH LEGS, ETC.

KEYED NOTES:
* FOR SHEET EP101 ONLY

- PROVIDE DOUBLE DUPLEX OUTLET FLUSH MOUNTED IN CEILING. RIGIDLY SUPPORT BOX FROM BUILDING STRUCTURE INDEPENDENT OF GRID CEILING. FIELD COORDINATE EXACT LOCATIONS WITH OWNER'S FURNITURE LAYOUT AND ARCHITECT.
- PROVIDE (1) 1" CONDUIT W/ FILL STRING TO CABINET IN TELE/DATA ROOM 100A. STUBBED CONDUIT TO ADJACENT FLUSH CEILING POWER OUTLET. COORDINATE EXACT LOCATIONS WITH OWNER'S FURNITURE LAYOUT AND ARCHITECT.
- LAVATORIES AND URINALS PROVIDED WITH AUTOMATIC VALVES. PROVIDE BRANCH CIRCUITS, RACEWAYS, CONDUCTORS, ETC. AS REQUIRED FOR COMPLETE ELECTRICAL CONNECTIONS TO VALVES. COORDINATE REQUIREMENTS WITH PLUMBING CONTRACTOR AND EQUIPMENT SUPPLIER.
- FLOOR STANDING WASH BASIN PROVIDED WITH AUTOMATIC VALVE(S). PROVIDE BRANCH CIRCUITS, RACEWAYS, CONDUCTORS, ETC. AS REQUIRED FOR COMPLETE ELECTRICAL CONNECTIONS TO VALVES. INSTALL RACEWAY UNDER FLOOR SLAB FROM ADJACENT WALL. COORDINATE REQUIREMENTS WITH PLUMBING CONTRACTOR AND EQUIPMENT SUPPLIER.

ARCHITECT AJC PROJECT # 0502



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PROJECT DESCRIPTION

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DRAPER, UTAH

SHEET NAME:

B POWER PLANS

REVISIONS

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



BIDDING NOTES:

BASE BID:
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SYMBOL LIST

SYMBOL	DESCRIPTION
○	CEILING MOUNTED FIXTURE
⊙	WALL MOUNTED FIXTURE
□	FLUORESCENT FIXTURE
⊗	EXIT LIGHT WITH ARROW INDICATING DIRECTION OF EXIT
⊗ NL	FIXTURE CONNECTED TO UNSWITCHED 'NIGHT LIGHT' BRANCH CIRCUIT
⊗ EM	FIXTURE WITH EMERGENCY BATTERY PACK
\$	SINGLE POLE SWITCH
\$3	THREE WAY SWITCH
\$u	AUTOMATIC OCCUPANCY SENSOR SWITCH
\$u2	AUTOMATIC DUAL LEVEL OCCUPANCY SENSOR SWITCH
⊙	CEILING MOUNTED OCCUPANCY SENSOR
⊙	JUNCTION BOX
⊕	DUPLEX RECEPTACLE
⊕	DOUBLE DUPLEX RECEPTACLE
⊕ GFI	RECEPTACLE WITH GROUND FAULT CIRCUIT INTERRUPTER
⊕ EWC	RECEPTACLE FOR ELECTRIC WATER COOLER
⊕ 14-30	SPECIAL PURPOSE RECEPTACLE INDICATING NEMA DESIGNATION
⊕	TELEPHONE/DATA OUTLET
■	POWER PANELBOARD, 120/208 VOLT, 3 PHASE
⊕	METER PEDESTAL
A-1352	3 PHASE, 4 WIRE HOMERUN INDICATING PANEL AND CIRCUIT NUMBERS
—	BRANCH CIRCUIT CONCEALED IN WALL, FLOOR, OR CEILING
- - -	BRANCH CIRCUIT EXPOSED ON WALL OR CEILING
- · - · -	EXISTING BRANCH CIRCUIT
⊕	MOTOR
⊕	MAGNETIC MOTOR STARTER OR CONTROL PANEL
⊕ F	DISCONNECT SWITCH, 'F' INDICATES FUSED, 'NF' INDICATES NON-FUSED
\$H	MANUAL MOTOR STARTING SWITCH W/ THERMAL OVERLOAD PROTECTION
⊕	THERMOSTAT
⊕	MECHANICAL EQUIPMENT SCHEDULE SYMBOL
F-2	FIXTURE SCHEDULE SYMBOL
2	KEYED NOTE SYMBOL
100	ROOM NUMBER
C4 E-601	DETAIL DESIGNATION BY SHEET COORDINATES SHEET ON WHICH DETAIL IS SHOWN
⊕	INDICATES ITEM IN WEATHERPROOF (NEMA 3R MINIMUM) ENCLOSURE

MECHANICAL EQUIPMENT SCHEDULE

EQUIP. NO.	DESCRIPTION	CIRCUIT NUMBER	VOLTS	PHASE	WATTS H.P.	BREAKER	STARTERS FURNISH	INSTALL	AUX. CONT.	LOCATION
EF 1	EXHAUST FAN	A1-2	120	1	1/2 HP	1P-20A	E	E	\$H	GREENTHUMB RESTROOM
EF 2	EXHAUST FAN	A1-2	120	1	1/2 HP	1P-20A	E	E	\$H	FACILITY RESTROOM
EF 3	EXHAUST FAN	A1-2	120	1	48 WATTS	1P-20A	E	E	\$H	JANITOR
EF 4	EXHAUST FAN	A1-2	120	1	48 WATTS	1P-20A	E	E	\$H	JANITOR
EF 5	EXHAUST FAN	A1-2	120	1	75 WATTS	1P-20A	E	E	\$H	RESTROOM
ECH 1	ELECTRIC CEILING HEATER (3)	A2-20, 22 & 24	120	1	500 WATTS	1P-20A	M	M	M	DRINKING FOUNTAIN & RESTROOM
WMU 1	WALL MOUNTED A/C & HEAT UNIT (16)	A5 NOTED	208	1	6 KW HEAT	2P-45A	M	M	M	CLASSROOMS & OFFICES
WMU 2	WALL MOUNTED A/C & HEAT UNIT	A5 NOTED	208	1	6 KW HEAT	2P-45A	M	M	M	INMATE RESTROOM
WMU 3	WALL MOUNTED A/C & HEAT UNIT (7)	A5 NOTED	208	1	6 KW HEAT	2P-45A	M	M	M	CLASSROOMS & COMPUTER LABS
WH 1	ELECTRIC WATER HEATER	A2-26	208	3	9 KW	3P-30A	M	M	M	JANITOR

E - ELECTRICAL CONTRACTOR
M - MECHANICAL CONTRACTOR

FIXTURE SCHEDULE

SYMBOL	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	LAMP
F-1	COLUMBIA DAY-BRITE LIGHTOLIER LITHONIA LSI MIDWEST METALUX	4PS24-332G-FSA12 125-3EB8-120 2DPG232-FS21-120-1/3-EB SPS2GFSV1332-120-03 2SPG632-A12125-1/3-120GEB L-A125-332-SD-SSO-120 2GC332-A125-120EB81	2' x 4', 3 LAMP, LAY-IN FLUORESCENT FIXTURE WITH FLAT STEEL DOOR, 0.125" THICK ACRYLIC PRISMATIC LENS AND ONE 3 LAMP, 120 VOLT, <20% THD ELECTRONIC BALLAST.	3F32T8/TL835
F-2	COLUMBIA DAY-BRITE LIGHTOLIER LITHONIA LSI MIDWEST METALUX	4PS24-332G-FSA12 125-EB8-120 2DPG232-FS21-120-1/2-EB SPS2GFSV1232U-120-SD 2SPG632-A12125-120GEB L-A125-232-SD-SSO-120 2GC232-A125-120EB81	2' x 4', 2 LAMP, LAY-IN FLUORESCENT FIXTURE WITH FLAT STEEL DOOR, 0.125" THICK ACRYLIC PRISMATIC LENS AND ONE 2 LAMP, 120 VOLT, <20% THD ELECTRONIC BALLAST.	2F32T8/TL835
F-3	COLUMBIA DAY-BRITE LIGHTOLIER LITHONIA LSI MIDWEST METALUX	4PS22-232UG-FSA12 125-EB8-120 2DPG231U6-FS21-120-1/2-EB SPS2GFSV1232U-120-SD 2SPG62U316-A12125-120GEB L-A125-2U32-SD-SSO-120 2GC2U6T8-A125-120EB81	2' x 2', 2 LAMP, LAY-IN FLUORESCENT FIXTURE WITH FLAT STEEL DOOR, 0.125" THICK ACRYLIC PRISMATIC LENS AND ONE 2 LAMP, 120 VOLT, <20% THD ELECTRONIC BALLAST.	2F32U6T8/TL835
F-4	COLUMBIA DAY-BRITE LIGHTOLIER LITHONIA LSI INDUSTRIES METALUX	W4-232-EB8-120 CAN-232-R-120-1/2-EB W4A-232-120-SD LB232-120GEB PR11-232-SSO-120 WS232A-120-EB81	4 FT. 2 LAMP SURFACE MOUNTED 'WRAPAROUND' FLUORESCENT FIXTURE WITH ACRYLIC PRISMATIC LENS AND ONE 2 LAMP, 120 VOLT, <20% THD ELECTRONIC BALLAST	2F32T8/TL835
F-5	COLUMBIA DAY-BRITE LIGHTOLIER LITHONIA LSI INDUSTRIES METALUX	W4-2UD32-EB8-120 CB232-WH-120-1/2-EB CWB232-120-SD WP-232-120GEB BR-232-SSO-120 BTU-232-120-EB81	4 FT. 2 LAMP WALL MOUNTED FLUORESCENT FIXTURE WITH ACRYLIC PRISMATIC LENS, UP & DOWNLIGHT, WHITE FINISH AND ONE 2 LAMP, 120 VOLT, <20% THD ELECTRONIC BALLAST.	2F32T8/TL835
F-6	COLUMBIA DAY-BRITE LIGHTOLIER LITHONIA LSI MIDWEST METALUX	CS-232-U-EB8-120 T-232-120-1/2-EB SW-232-120-SD C-232-120-GEB S2-232-SSO-120 SS-232-120-EB81	4 FT. 2 LAMP ROW, SURFACE MOUNTED FLUORESCENT STRIPLIGHT AND ONE 2 LAMP, <20% THD, 120 VOLT ELECTRONIC BALLAST	2F32T8/TL835
F-7	DUAL-LITE LIGHTGUARD LIGHTOLIER LITHONIA MCPHILBEN SURE-LITES	LX-S-G-W-E-I U-L-N-1-G-W-OT LT-N-1-G-W-SD LQM-S-W-1-G-120/120-ELN-SD CXXL-1-G-W LPX-7-0-G-WH-SD	UNIVERSAL MOUNTED, SINGLE FACE, LIGHT EMITTING DIODE (<LED>) EXIT LIGHT WITH WHITE THERMOPLASTIC HOUSING, GREEN LETTERS ON STENCIL FACE, 120/120 VOLT INPUT, NICKEL CADMIUM BATTERY, CHARGER AND SELF-DIAGNOSTIC CIRCUITRY WITH INDICATORS AND TEST SWITCH.	FURNISHED W/ FIXTURE
F-8	DAY-BRITE LSI MIDWEST LUMARK	CHWS-FTM-42CFL2-FPL-UE-BRZ-PC1120-BB PL-IP-T-42-MT-EM140-PE120	WALL MOUNTED COMPACT FLUORESCENT WITH CLEAR POLYCARBONATE LENS, ALUMINUM HOUSING, BRONZE FINISH, INTEGRAL PHOTOCELL AND MULTI-TAP HIGHPOWER FACTOR BALLAST WITH INTEGRAL LOW TEMP EMERGENCY BATTERY BALLAST. INSTALL FIXTURE A MINIMUM 6'-8" A.F.F. TO BOTTOM FOR ADA CLEARANCE.	2CF42PLT/35K



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PROJECT DESCRIPTION

ATE CENTER AT
UTAH STATE PRISON
VOCATIONAL
CLASSROOMS

DRAPER, UTAH

SHEET NAME:

RISER DIAGRAMS
SYMBOL LIST
FIXTURE SCHEDULE

REVISIONS

MARK DATE DESCRIPTION

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D

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C

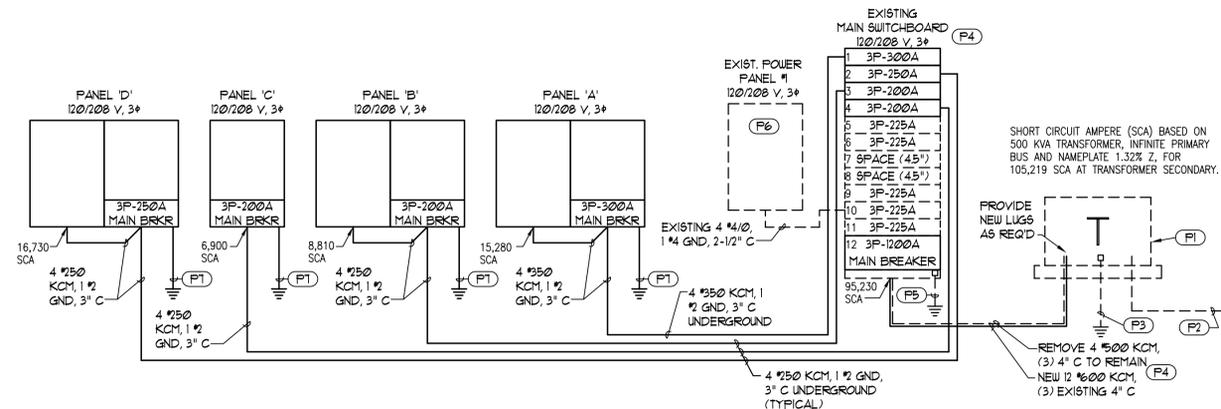
C

B

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A

A



POWER RISER GENERAL NOTES:

- BURY UNDERGROUND ELECTRICAL SERVICE CONDUITS MINIMUM 24" BELOW FINISH GRADE WITH RED MAGNETIC WARNING TAPE STATING "CAUTION - BURIED ELECTRICAL" 12 INCHES ABOVE THE CONDUIT.
- USE GALVANIZED RIGID STEEL CONDUIT (GRC) FOR ALL CONDUIT THROUGH GRADE AND ELBOWS IN PVC CONDUIT RUNS. CORROSION PROTECT GRC CONDUIT IN ACCORDANCE WITH SPECIFICATION SECTION 16110.
- COORDINATE INSTALLATION OF NEW ELECTRICAL SERVICE AND METERING WITH OWNER PRIOR TO BEGINNING WORK.

POWER RISER KEYED NOTES:

- (P1) EXISTING PAD MOUNTED, OIL FILLED, DISTRIBUTION TRANSFORMER 500 KVA, 12,410GRDY/1200 TO 208Y/120, 1.32% IMPEDANCE, TO REMAIN.
- (P2) EXISTING UNDERGROUND PRIMARY ELECTRICAL SERVICE TO EXISTING PAD MOUNT TRANSFORMER TO REMAIN.
- (P3) EXISTING TRANSFORMER GROUND TO REMAIN.
- (P4) EXISTING 1200 AMPERE, 120/208 V, 3P, DISTRIBUTION PANEL TO REMAIN. PROVIDE NEW MAIN BREAKER (BACK FEED), BRANCH BREAKERS AND FEEDER.
- (P5) EXISTING DISTRIBUTION PANEL GROUND TO REMAIN.
- (P6) EXISTING PANEL #1 TO REMAIN.
- (P7) PROVIDE GROUNDING ELECTRODE SYSTEM AND BONDING JUMPER CONNECTIONS PER NEC III INCLUDING TWO (2) 3/4" x 8'-0" COPPER RODS NEC 250.52(A)(5), FOOTING ELECTRODE NEC 250.52(A)(3) AND WATER MAIN(S) NEC 250.52(A)(1).

POWER RISER DIAGRAM
SCHEMATIC E-601

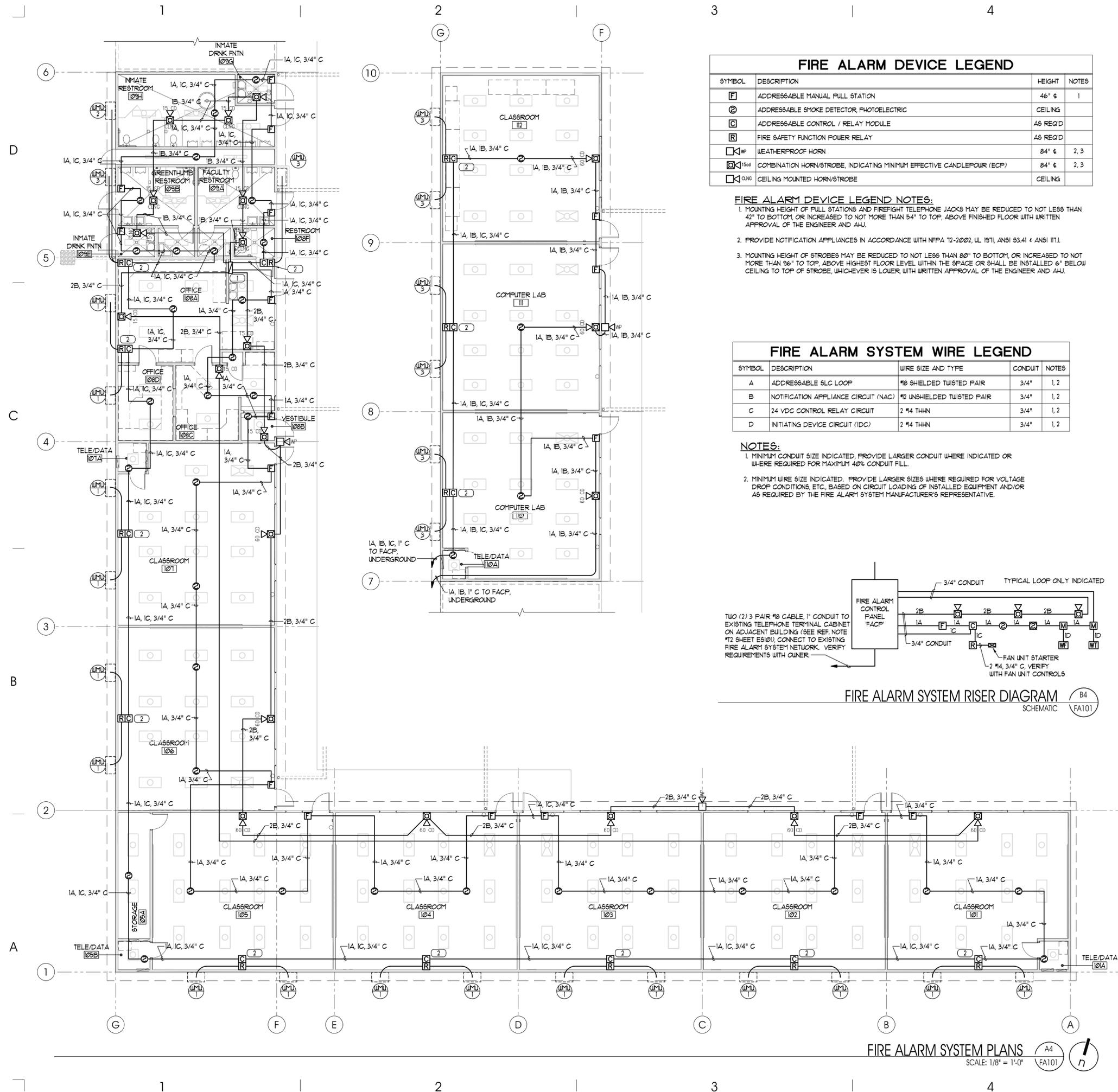
TELE/DATA RISER KEYED NOTES:

- (T1) TELE/DATA CABINET #1, 36"W x 48"H x 9 1/4"D SEMI-RECESSED WITH 3/4" PLYWOOD EQUIPMENT MOUNTING PANEL, MOUNT 6'-0" TO TOP. FINISH PLYWOOD WITH 2 COATS OF WHITE FIRE-RETARDANT PAINT.
- (T2) TELE/DATA CABINET #2/3/4, 30"W x 36"H x 8 3/4"D SEMI-RECESSED WITH 3/4" PLYWOOD EQUIPMENT MOUNTING PANEL, MOUNT 6'-0" TO TOP. FINISH PLYWOOD WITH 2 COATS OF WHITE FIRE-RETARDANT PAINT.
- (T3) GROUND BUS SUITABLE FOR (6) #10-#6 AWG COPPER CONDUCTORS.
- (T4) #6 AWG INSULATED GROUND CONDUCTOR TO GROUND BUS IN PANEL.
- LEAVE 6 FEET OF #6 AWG INSULATED GROUND CONDUCTOR COILED AT TERMINAL BOARD FOR CONNECTION TO TELEPHONE SURGE PROTECTION EQUIPMENT.
- EXTEND CONDUIT TO TELEPHONE CABINET. PROVIDE GRC CONDUIT ABOVE GRADE.
- TERMINATE ALL STATION CONDUITS WITH INSULATED BUSHING AT TELEPHONE CABINET
- TYPICAL TELE/DATA STATION OUTLET. SEE POWER PLANS FOR LOCATIONS AND QUANTITY.

TELE/DATA RISER GENERAL NOTES:

- BURY UNDERGROUND CONDUITS MINIMUM 24" BELOW FINISH GRADE WITH RED MAGNETIC WARNING TAPE STATING "CAUTION - BURIED ELECTRICAL" 12 INCHES ABOVE THE CONDUIT.
- USE GALVANIZED RIGID STEEL CONDUIT (GRC) FOR ALL CONDUIT THROUGH GRADE AND ELBOWS IN PVC CONDUIT RUNS. CORROSION PROTECT GRC CONDUIT IN ACCORDANCE WITH SPECIFICATION SECTION 16110.
- PROVIDE 1/4" NYLON FULL ROPE IN 3" TELEPHONE SERVICE CONDUIT. PROVIDE FULL STRING IN 1" FIRE ALARM SYSTEM CONDUITS.
- TELEPHONE/DATA CABLES AND EQUIPMENT WILL BE FURNISHED AND INSTALLED BY THE OWNER.
- DO NOT APPLY POWER TO ANY TELEPHONE/ DATA SYSTEM EQUIPMENT EXCEPT UNDER SUPERVISION OF THE OWNER.
- COORDINATE LOCATION OF ALL OUTLETS, EQUIPMENT, ETC., FOR THE TELEPHONE/DATA SYSTEM WITH THE OWNER PRIOR TO ROUGHING IN.
- COORDINATE INSTALLATION OF NEW TELEPHONE SERVICE WITH OWNER PRIOR TO BEGINNING WORK.

TELEPHONE/DATA CONDUIT RISER DIAGRAM
SCHEMATIC E-601



FIRE ALARM DEVICE LEGEND

SYMBOL	DESCRIPTION	HEIGHT	NOTES
[F]	ADDRESSABLE MANUAL PULL STATION	46" \pm	1
[C]	ADDRESSABLE SMOKE DETECTOR, PHOTOELECTRIC	CEILING	
[R]	ADDRESSABLE CONTROL / RELAY MODULE	AS REQ'D	
[R]	FIRE SAFETY FUNCTION POWER RELAY	AS REQ'D	
[W]	WEATHERPROOF HORN	84" \pm	2, 3
[K]	COMBINATION HORN/STROBE, INDICATING MINIMUM EFFECTIVE CANDLEPOWER (ECP)	84" \pm	2, 3
[LNG]	CEILING MOUNTED HORN/STROBE	CEILING	

FIRE ALARM DEVICE LEGEND NOTES:

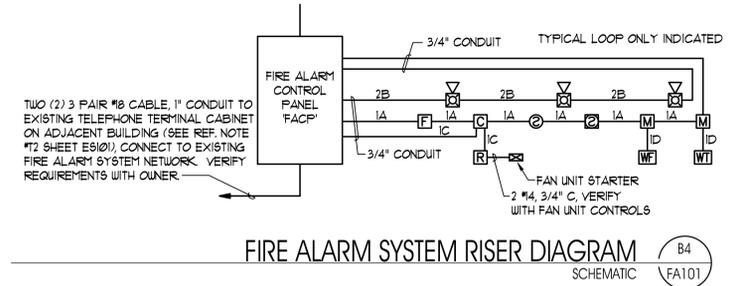
- MOUNTING HEIGHT OF PULL STATIONS AND FIREFIGHT TELEPHONE JACKS MAY BE REDUCED TO NOT LESS THAN 42" TO BOTTOM, OR INCREASED TO NOT MORE THAN 54" TO TOP, ABOVE FINISHED FLOOR WITH WRITTEN APPROVAL OF THE ENGINEER AND AHJ.
- PROVIDE NOTIFICATION APPLIANCES IN ACCORDANCE WITH NFPA 72-2002, UL 1971, ANSI 93.41 4 ANSI I111.
- MOUNTING HEIGHT OF STROBES MAY BE REDUCED TO NOT LESS THAN 80" TO BOTTOM, OR INCREASED TO NOT MORE THAN 96" TO TOP, ABOVE HIGHEST FLOOR LEVEL WITHIN THE SPACE OR SHALL BE INSTALLED 6" BELOW CEILING TO TOP OF STROBE, WHICHEVER IS LOWER, WITH WRITTEN APPROVAL OF THE ENGINEER AND AHJ.

FIRE ALARM SYSTEM WIRE LEGEND

SYMBOL	DESCRIPTION	WIRE SIZE AND TYPE	CONDUIT	NOTES
A	ADDRESSABLE SLC LOOP	#8 SHIELDED TWISTED PAIR	3/4"	1, 2
B	NOTIFICATION APPLIANCE CIRCUIT (NAC)	#12 UNSHIELDED TWISTED PAIR	3/4"	1, 2
C	24 VDC CONTROL RELAY CIRCUIT	2 #14 THHN	3/4"	1, 2
D	INITIATING DEVICE CIRCUIT (IDC)	2 #14 THHN	3/4"	1, 2

NOTES:

- MINIMUM CONDUIT SIZE INDICATED. PROVIDE LARGER CONDUIT WHERE INDICATED OR WHERE REQUIRED FOR MAXIMUM 40% CONDUIT FILL.
- MINIMUM WIRE SIZE INDICATED. PROVIDE LARGER SIZES WHERE REQUIRED FOR VOLTAGE DROP CONDITIONS, ETC., BASED ON CIRCUIT LOADING OF INSTALLED EQUIPMENT AND/OR AS REQUIRED BY THE FIRE ALARM SYSTEM MANUFACTURER'S REPRESENTATIVE.



GENERAL NOTES:
* FOR SHEET FA101 ONLY

- INSTALL FIRE ALARM SYSTEM IN STRICT COMPLIANCE WITH APPLICABLE SECTIONS OF THE NATIONAL ELECTRICAL CODE (NEC ARTICLE 760), NATIONAL FIRE ALARM CODE, NFPA 72-2002, INTERNATIONAL FIRE CODE 2003, INTERNATIONAL BUILDING CODE 2003, OTHER APPLICABLE NFPA STANDARDS, REGULATIONS OF LOCAL AUTHORITY HAVING JURISDICTION (AHJ) AND THE CONTRACT DOCUMENTS.
- FIRE ALARM SYSTEM INSTALLATION SHALL BE APPROVED BY THE LOCAL AHJ.
- FIRE ALARM SIGNALING LINE CIRCUITS (SLC) SHALL BE CLASS 'A', STYLE '6' IN ACCORDANCE WITH NFPA 72.
- FIRE ALARM NOTIFICATION APPLIANCE CIRCUITS (NAC) SHALL BE CLASS 'A', STYLE '2' IN ACCORDANCE WITH NFPA 72.
- PROVIDE AN EARTH GROUND TO THE FIRE ALARM CONTROL PANEL FOR GROUND FAULT DETECTION AND LIGHTNING PROTECTION OF THE DEVICES.
- INSTALL CABLE SHIELD CONTINUOUS THROUGH-OUT EACH CIRCUIT AND ISOLATE SHIELD FROM GROUND. TERMINATE CABLE SHIELD AT FIRE ALARM CONTROL PANEL ONLY.
- COORDINATE WIRE AND CONDUIT SIZES AND QUANTITIES WITH FIRE ALARM SYSTEM MANUFACTURER'S REPRESENTATIVE PRIOR TO INSTALLATION.
- VERIFY THAT ALL FIRE ALARM SYSTEM WIRING IS CLEAR OF SHORTS, OPENS AND GROUNDS PRIOR TO MAKING CONNECTIONS TO THE FIRE ALARM CONTROL PANEL.
- COORDINATE FAN SHUT DOWN CONNECTIONS WITH MECHANICAL CONTRACTOR.
- COORDINATE DEVICE LOCATIONS WITH REFLECTED CEILING PLANS, BUILDING STRUCTURE, MECHANICAL EQUIPMENT, DUCTWORK, ETC. LOCATE SMOKE DETECTORS MINIMUM 3 FEET FROM SUPPLY AIR GRILLS.

KEYED NOTES:
* FOR SHEET FA101 ONLY

- FIRE ALARM CONTROL PANEL (FACP) INCLUDING POWER SUPPLIES NECESSARY FOR NOTIFICATION APPLIANCE CIRCUITS, AND DIGITAL ALARM COMMUNICATION TRANSMITTER FOR REMOTE SUPERVISING STATION MONITORING.
- PROVIDE ADDRESSABLE RELAY MODULES AND/OR FIRE SAFETY FUNCTION POWER RELAYS FOR FAN SHUT DOWN OF ALL WALL MOUNTED A/C UNIT. INSTALL IN ACCESSIBLE CEILING SPACE. INTERLOCK RELAY(S) WITH UNIT CONTROLS TO SHUT DOWN UNIT UPON ACTIVATION OF THE ASSOCIATED AREA SMOKE DETECTORS. COORDINATE INTERLOCK REQUIREMENTS WITH UNIT SUPPLIER.

SIGNALING LINE CIRCUITS (SLC)

CKT. NO.	DESCRIPTION
SLC-1	ATE CLASSROOM BUILDINGS

NOTIFICATION APPLIANCE CIRCUITS (NAC)

CKT. NO.	DESCRIPTION
NAC-1	SO. BLDG. OFFICE/CLASSROOMS
NAC-2	SO. BLDG. RESTROOMS
NAC-3	NO. BLDG. CLASSROOMS
NAC-4	SPARE

BIDDING NOTES:

BASE BID:
ALL SITE WORK INCLUDING, BUT NOT LIMITED TO: SITE IMPROVEMENTS AND INFRASTRUCTURE, ALL EXCAVATION FOR UNDERGROUND UTILITIES AND CONCRETE SLABS, FOOTINGS, FOUNDATIONS AND DAMP-PROOFING, ALL UNDER-SLAB FUMING AND ELECTRICAL ROUGH-INS, ALL OTHER CONSTRUCTION INDICATED ON PLANS N.I.C. AT THIS TIME.

ADD ALTERNATE #1:
COMPLETE CONSTRUCTION AS SPECIFIED HEREIN FOR THE ENTIRE RESTROOM PORTION OF THE BUILDING LOCATED BETWEEN GRIDS 5 & 6 AS SHOWN ON FLOOR PLANS.



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PROJECT DESCRIPTION
**ATE CENTER AT
UTAH STATE PRISON
VOCATIONAL
CLASSROOMS**
DRAPER, UTAH

SHEET NAME:
**B FIRE ALARM SYSTEM
PLANS, NOTES AND
SCHEDULES**

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