

BID	Elk Horn Fire Station-DD Budget						
BID DATE	4.4.2016						
		CODE	QTY	UNITS	TYPE	RATE	TOTAL
	<i>Division One</i>						\$ 31,257
	<i>Interior Demo</i>		1	EA		\$ 7,269.00	\$ 7,269
	<i>Interior Framing, gyp</i>		1	EA		\$ 10,430.00	\$ 10,430
	<i>Painting</i>		1	EA		\$ 4,230.00	\$ 4,230
	<i>Doors, frames, hardware</i>		8	EA		\$ 625.00	\$ 5,000
	<i>Floor Coverings and Tile</i>		2065	sqft		\$ 6.89	\$ 14,236
	<i>Drop Ceiling</i>		1	EA		\$ 7,000.00	\$ 7,000
	<i>Electrical</i>		1	LS		\$ 21,090.00	\$ 21,090
	<i>Plumbing, sawcutting, patching concrete</i>		1	LS		\$ 24,000.00	\$ 24,000
	<i>HVAC</i>		1	LS		\$ 31,625.00	\$ 31,625
	<i>Casework</i>		1	LS		\$ 14,860.00	\$ 14,860
	<i>Bath Accessories</i>		1	LS		\$ 750.00	\$ 750
	<i>Exterior Stucco</i>		1	LS		\$ 7,800.00	\$ 7,800
	<i>Storefront Windows</i>		1	LS		\$ 4,500.00	\$ 4,500
						COST SUB TOTAL	\$ 179,547
						PROFIT AND OH	\$ 37,026
						TOTAL PROJECT COST	\$ 216,573



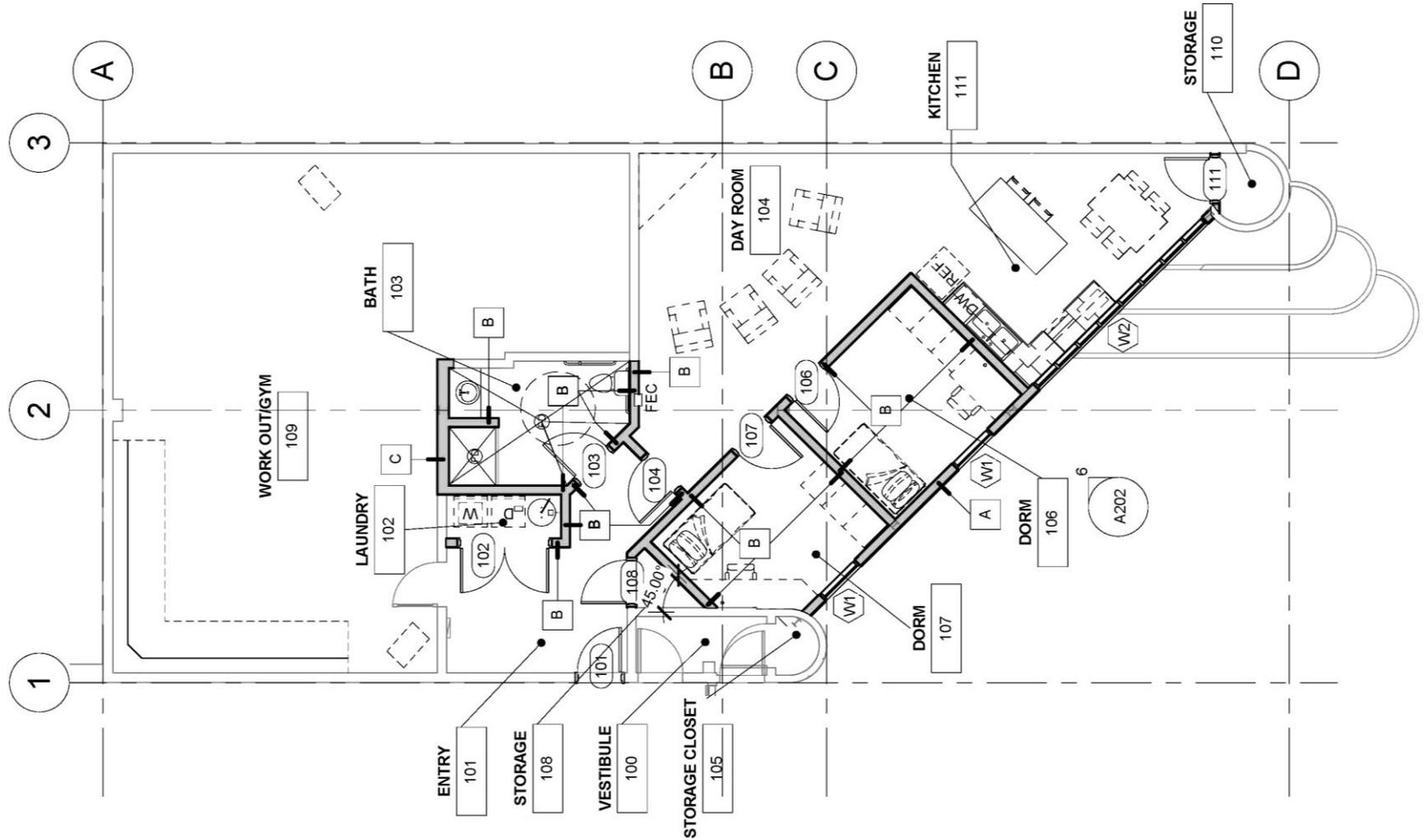
ELKHORN FIRE STATION REMODEL

COLE ARCHITECTS

ELKHORN FIRE STATION REMODEL

COLE ARCHITECTS

FLOOR PLAN



MARK GUHO CONSTRUCTION

BID	Elk Horn Fire Station-DD Budget						
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<i>Electrical</i>			1	LS		21,090.00	\$ 21,090
<i>Plumbing, sawcutting, patching concrete</i>			1	LS		24,000.00	\$ 24,000
<i>HVAC</i>			1	LS		31,625.00	\$ 31,625
<i>Casework</i>			1	LS		14,860.00	\$ 14,860
<i>Bath Accessories</i>			1	LS		750.00	\$ 750
<i>Exterior Stucco</i>			1	LS		7,800.00	\$ 7,800
<i>Storefront Windows</i>			1	LS		4,500.00	\$ 4,500
						COST SUB TOTAL	\$ 179,547
						PROFIT AND OH	\$ 37,026
						TOTAL PROJECT COST	\$ 216,573



ARCHITECT:



COLE ARCHITECTS, PLLC | 802 W. BANNOCK SUITE 205
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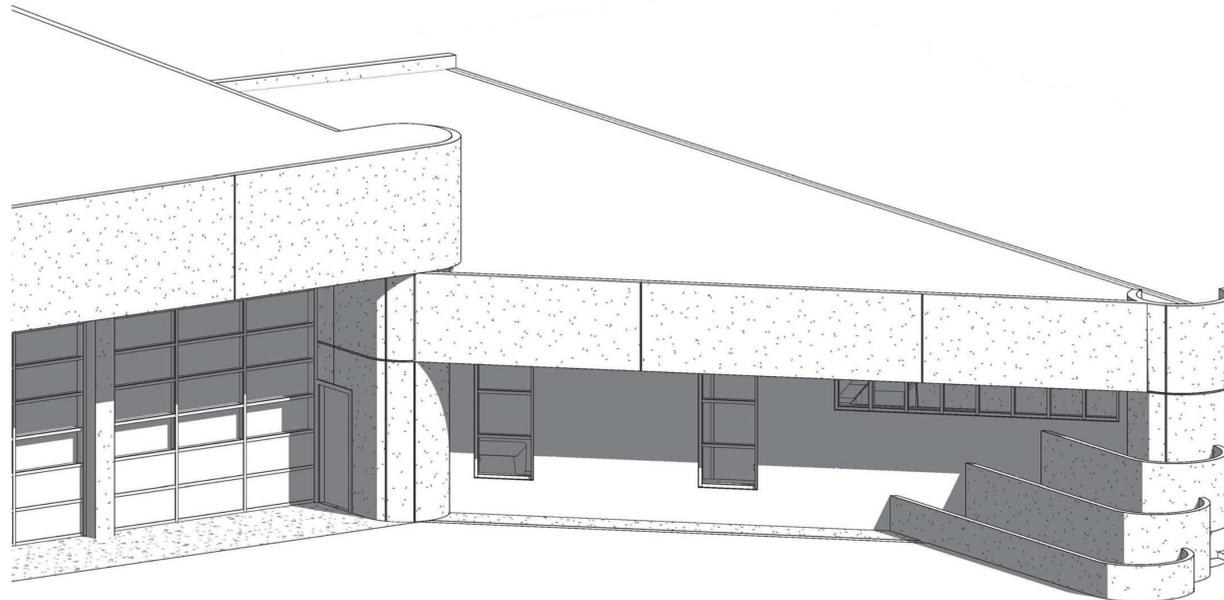
Sun Valley Elkhorn Fire Station

CONTRACT DRAWINGS FOR:

Sun Valley Elkhorn Fire Station

PROJECT PHASE:
CD

ARCHITECTURAL
STRUCTURAL
ELECTRICAL
MECHANICAL
PLUMBING



SUN VALLEY, IDAHO

PROJECT NO. 15-92
PROJECT DATE: 03.01.16

PROJECT CONTACT INFORMATION:

OWNER
CITY OF SUN VALLEY
81 ELKHORN RD
P.O. BOX 416
SUN VALLEY, ID 83353

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STAN COLE
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ARCHITECT DESIGN CONSULTANT
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6211 ROOSEVELT WAY NE.
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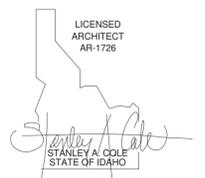
STRUCTURAL
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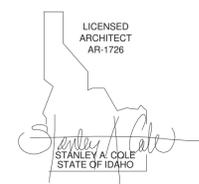


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COLE ARCHITECTS | 802 W. BANNOCK SUIT 208
Boise, ID 83702 | (208) 345-1800

STAMP:



CONSULTANT:

PROJECT INFORMATION:

PROJECT NAME:
**ELKHORN FIRE STATION
REMODEL - SLEEPING
QUARTERS**

CITY OF SUN VALLEY

100 ARROWLEAF RD., SUN VALLEY, ID 83353

REVISIONS:

MARK	DATE	DESCRIPTION

PROJECT PHASE	CD
PROJECT NUMBER	15-92
PROJECT MANAGER	R.TeBeau
PROJECT ARCHITECT	R.Stewart
DESIGN	R.TeBeau
DRAWN BY	R.Stewart

SHEET NAME:

SHEET LEGEND & PROJECT INFORMATION

SHEET NUMBER:

G001

SHEET INDEX:

SHEET INDEX	
Sheet Number	Sheet Name
G000	COVER SHEET
G001	SHEET LEGEND & PROJECT INFORMATION
G002	ACCESSIBLE CLEARANCES AND REQUIREMENTS
G003	1ST FLOOR CODE ANALYSIS & LIFE SAFETY PLAN
A101	SITE PLAN
A202	KEY/DEMO/1ST FLOOR PLAN
A206	ENLARGED PLANS
A207	DETAILS
A602	METAL STUD WALL TYPES
A800	1ST FLOOR REFLECTED CEILING PLAN
A900	INTERIOR ELEVATIONS AND DETAILS
ID100	1ST FLOOR FINISH PLAN
M000	MECHANICAL COVER SHEET
M001	MECHANICAL COMCHECK
M100	1ST FLOOR MECHANICAL DEMO PLAN
M200	1ST FLOOR HVAC PLAN
M201	HVAC ROOF PLAN
M300	HVAC DETAILS
M400	HVAC SCHEDULES
P100	1ST FLOOR PLUMBING DEMO PLAN
P200	FOUNDATION PLUMBING PLAN
P201	1ST FLOOR PLUMBING PLAN
P300	PLUMBING DETAILS
P400	PLUMBING SCHEDULES
E000	ELECTRICAL COVER SHEET
E001	LIGHTING COMPLIANCE REPORT
E002	LIGHTING COMPLIANCE REPORT
E200	1ST FLOOR MECHANICAL POWER / POWER PLAN
E201	ELECTRICAL DEMO / LIGHTING / SPECIAL SYSTEMS PLAN
E202	ROOF ELECTRICAL PLAN
E300	ONE-LINE / DETAILS
E400	ELECTRICAL SCHEDULES

VICINITY MAP:



MATERIAL LEGEND:

	CONCRETE (SECTION)
	GRANULAR FILL
	CONCRETE MASONRY UNITS
	BRICK
	RIGID INSULATION (SECTION)
	ACOUSTIC/THERMAL INSULATION (SECTION)
	STUD WALL (PLAN & SECTION)
	EXISTING WALL TO REMAIN (PLAN & SECTION)
	DEMO WALL (PLAN & SECTION)
	STEEL (SECTION)
	ALUMINUM (SECTION)
	WOOD - FINISH (SECTION)
	DIMENSIONAL LUMBER CONTINUOUS (SECTION)
	DIMENSIONAL LUMBER BLOCKING (SECTION)
	LUMBER - FINISH (SECTION)
	EARTHWORK (SECTION)

PROJECT INFORMATION

ADDRESS: 100 ARROWLEAF RD, SUN VALLEY, ID 83353

PROPERTY LEGAL DESCRIPTION: SUN VALLEY FR SWSW TL 6139 SEC 16 4N 18E FIRE STATION-SURVEY 228534

PARCEL NUMBER: RPS0000000071A

LOT SIZE: 43,560 SF (1 ACRE)

NUMBER OF STORIES: 1

SQUARE FOOTAGE: WHOLE BUILDING: 8,790 S.F. ; TENANT IMPROVEMENT: 1,225 S.F.

CONSTRUCTION TYPE: VB

OCCUPANCY: GROUP B-BUSINESS, R-3 - DORMS, A3 - ASSEMBLY, S1 - STORAGE

LAND USE CODE: EXEMPT @ TIME OF CONSTRUCTION

FIRE SPRINKLERS: NO

IECC COMPLIANCE: ALTERATION TO BUILDING ENVELOPE IS LIMITED TO THE UPGRADING OF WINDOWS AND EXTERIOR WALL CONSTRUCTION TO EXCEED CURRENT ENERGY CODE.

GENERAL PROJECT NOTES:

A. GENERAL PROJECT NOTES APPLY TO ALL SHEETS & SPECIFICATIONS. CONTRACTOR AND SUB-CONTRACTORS ARE TO REVIEW ALL CONTRACT DOCUMENTS AND COORDINATE THEIR SCOPE OF WORK WITH THE GENERAL CONTRACTOR AND OTHER SUB-CONTRACTORS. INFORMATION COMMON TO SEVERAL DRAWINGS MAY BE NOTED ON ONLY ONE. CONTRACTOR IS RESPONSIBLE FOR ENTIRE SET OF DOCUMENTS.

B. IF INFORMATION ON SEPARATE SHEETS OR DETAILS INDICATE CONFLICTING INFORMATION OR QUESTIONS ABOUT THE SCOPE OF WORK OR DESIGN INTENT, THE CONTRACTOR IS TO NOTIFY THE ARCHITECT IMMEDIATELY BEFORE BIDS ARE FINALIZED TO CLARIFY SCOPE OF WORK. IF THE SCOPE OF WORK REMAINS UNCLEAR THEN THE CONTRACTOR OR SUB-CONTRACTOR IS INSTRUCTED TO PRICE AND PROVIDE THE MOST EXPENSIVE SCOPE OF WORK OPTION IN THEIR BID.

C. WHERE CONFLICTING DIRECTION IS GIVEN WITHIN THE SPECIFICATIONS AND DRAWINGS THE CONTRACTOR IS TO NOTIFY THE ARCHITECT IMMEDIATELY BEFORE BIDS ARE FINALIZED TO CLARIFY SCOPE OF WORK. IF THE SCOPE OF WORK REMAINS UNCLEAR THEN THE CONTRACTOR OR SUB-CONTRACTOR IS INSTRUCTED TO PRICE AND PROVIDED THE MOST EXPENSIVE SCOPE OF WORK OPTION IN THEIR BID.

D. COORDINATE CONSTRUCTION ACTIVITY WITH PROJECT SPECIFICATIONS. ALL SPECIFICATIONS, REFERENCED IN DRAWINGS OR NOT, SHALL BE PART THIS PROJECTS SCOPE OF WORK. MISNUMBERED (OR MISLABELED) SPECIFICATIONS OR REFERENCES ARE ALSO PART OF THIS PROJECTS SCOPE OF WORK AND SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT. THE CONTRACTOR IS RESPONSIBLE TO INCORPORATE ALL SPECIFICATIONS INTO THE PROJECTS SCOPE OF WORK.

E. ALL BUILDING COMPONENTS & PRODUCTS ARE TO BE INSTALLED PER THE MANUFACTURER INTENDED USE AND WRITTEN RECOMMENDATIONS. THIS INCLUDES, BUT IS NOT LIMITED TO: REQUIRED CLEARANCES, REQUIRED ATTACHMENT TECHNIQUES, FASTENING METHODS & APPROVED SUBSTRATES. CONTACT ARCHITECT IMMEDIATELY BEFORE PROCEEDING WITH INSTALLATION OF COMPONENTS THAT DO NOT MEET THE MANUFACTURER'S RECOMMENDATIONS.

F. WHEN APPLICABLE, PROTECT ITEMS THAT ARE TO BE SALVAGED TO THE OWNER. THESE INCLUDE BUT NOT LIMITED TO: WINDOWS, FRAMES, LIGHT FIXTURES, CEILING COMPONENTS, EQUIPMENT, MILLWORK, FIRE EXTINGUISHERS, CABINETS, AND CARPET. COORDINATE LOCATION AND TIME OF DELIVERY OF ITEMS TO BE RETURNED WITH THE OWNER.

G. WHERE APPLICABLE ADJUST AND SUPPLEMENT EXISTING FIRE SPRINKLER SYSTEM AS REQUIRED TO COMPLY WITH APPLICABLE FIRE CODE. FIELD VERIFY EXISTING LOCATIONS PRIOR TO SUBMITTING SHOP DRAWINGS.

H. SCREEN MECHANICAL SYSTEMS FROM TRANSFERRING DUST AND DEBRIS FROM PROJECT AREA TO THE REMAINDER OF THE BUILDING.

I. DO NOT SCALE DRAWINGS. IF SPECIFIC DIMENSIONS ARE NEEDED CONSULT ARCHITECT.

J. FIGURED DIMENSIONS TAKE PRECEDENCE OVER SCALED DRAWINGS. WHERE DISCREPANCIES OCCUR, THEY SHALL BE REPORTED TO ARCHITECT FOR RESOLUTION.

K. DETAILED DRAWINGS AND LARGER SCALE DRAWINGS TAKE PRECEDENCE OVER SMALLER SCALE DRAWINGS.

L. PROVIDE BLOCKING OR ATTACHMENT PLATES OR ANCHORS OR FASTENERS OF ADEQUATE SIZE AND NUMBER TO SECURELY ANCHOR EACH COMPONENT IN PLACE, ACCURATELY LOCATED AND ALIGNED WITH OTHER PORTIONS OF THE WORK. WHERE SIZE AND TYPE OF ATTACHMENTS ARE NOT INDICATED, VERIFY SIZE AND TYPE REQUIRED FOR LOAD CONDITIONS.

M. PROVIDE WALL BACKING FOR ALL WALL MOUNTED BUILDING COMPONENTS, SUCH AS BUT NOT LIMITED TO MILLWORK, BATHROOM ACCESSORIES, HANDRAILS, LADDERS, SHELVING & ELECTRICAL DEVICES. PROVIDE BACKING OF ADEQUATE SIZE AND NUMBER TO SECURELY ANCHOR EACH COMPONENT IN PLACE. WHERE SIZE AND TYPE OF ATTACHMENTS ARE NOT INDICATED, VERIFY SIZE AND TYPE REQUIRED WITH ARCHITECT FOR LOAD CONDITIONS.

N. THE DRAWINGS INDICATE LOCATION, DIMENSIONS, REFERENCE, AND TYPICAL DETAILS OF CONSTRUCTION. THE DRAWINGS DO NOT INDICATE EVERY CONDITION. WORK THAT IS NOT SPECIFICALLY DETAILED SHALL BE OF CONSTRUCTION SIMILAR TO PARTS THAT ARE DETAILED.

O. SUBCONTRACTORS FOR EACH TRADE ARE ADVISED THAT INFORMATION PERTINENT TO THEIR TRADE IS TO BE PROVIDED IN THE CONTRACT DOCUMENTS. ALL NOTES ARE TO BE REVIEWED AND APPLIED TO RELATED BUILDING DOCUMENTS.

P. WHERE NO MATERIAL NOTES OCCUR, THE GRAPHIC MATERIAL INDICATION SHALL INDICATE MATERIAL TYPES AND ITEMS. SEE SYMBOL AND MATERIALS LIST ON THIS SHEET.

Q. THE U. S. ENVIRONMENTAL PROTECTION AGENCY MUST BE NOTIFIED 10 WORKING DAYS IN ADVANCE FOR ALL RENOVATIONS THAT DISTURB 260 L.F. /160 SQ. FT. /35 CU. FT. OF ASBESTOS CONTAINING MATERIALS.

R. ALL NEW CONSTRUCTION TO COMPLY WITH THE AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES.

S. UNLESS OTHERWISE INDICATED ALL DRAWINGS, NOTES WHICH DO NOT READ "N.I.C.", "EXISTING", OR "EXISTING TO REMAIN", OR "BY OTHERS" SHALL INDICATE NEW WORK WHICH SHALL BE CONTRACTOR FURNISHED AND CONTRACTOR INSTALLED.

T. THE CONTRACTOR(S) SHALL KEEP ALL AREAS OF CONSTRUCTION CLEAN AND FREE OF DEBRIS. AFTER CONSTRUCTION IS COMPLETE, THE GENERAL CONTRACTOR SHALL PROVIDE FINAL CLEAN UP. ENFORCE REQUIREMENTS STRICTLY. DISPOSE OF MATERIALS LAWFULLY.

U. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS FOR ACCURACY PRIOR TO COMMENCING WITH THE WORK. ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.

V. FIELD MEASUREMENTS: TAKE FIELD MEASUREMENTS AS REQUIRED TO FIT THE WORK PROPERLY. RECHECK MEASUREMENTS BEFORE INSTALLING EACH PRODUCT. WHERE PORTIONS OF THE WORK ARE INDICATED TO FIT TO OTHER CONSTRUCTION, VERIFY DIMENSIONS OF OTHER CONSTRUCTION BY FIELD MEASUREMENTS BEFORE FABRICATION. COORDINATE FABRICATION SCHEDULE WITH CONSTRUCTION PROGRESS TO AVOID DELAYING THE WORK.

W. THIS PROJECT MAY NOT BE OCCUPIED UNTIL IT RECEIVES A CERTIFICATE OF OCCUPANCY AND FIRE DEPARTMENT APPROVAL FROM GOVERNING JURISDICTION.

X. COORDINATE STRUCTURAL, MECHANICAL, ELECTRICAL, AND FIRE PROTECTION REQUIREMENTS, ROUTING, AND FIELD VERIFY.

Y. WHERE NEW CONSTRUCTION JOINS WITH EXISTING CONSTRUCTION, ALIGN FINISHED SURFACE OF NEW CONSTRUCTION WITH EXISTING CONSTRUCTION.

Z. WHEN REQUIRED PROVIDE COPY OF FIRE-RESISTANCE RATING ASSEMBLIES TO THE STRUCTURAL INSPECTOR FOR VERIFICATION OF TESTING LISTING COMPLIANCE AND TO INSPECT ASSEMBLY CONSTRUCTION THEREWITH.

AA. ALL CONSTRUCTION ADDENDA, CHANGE ORDERS, OR DESIGN CLARIFICATIONS TO THOSE ITEMS REGULATED BY THE CODES MUST BE SUBMITTED TO THE FIELD INSPECTOR FOR REVIEW AND APPROVAL PRIOR TO COMMENCING WITH ANY OF THE PROPOSED WORK RELATED TO THE PROPOSED FIELD CHANGE.

BB. EXAMINATION AND ACCEPTANCE OF CONDITIONS: BEFORE PROCEEDING WITH EACH COMPONENT OF THE WORK, EXAMINE SUBSTRATES, AREAS, AND CONDITIONS WITH INSTALLER OR APPLICATOR PRESENT WHERE INDICATED, FOR COMPLIANCE WITH REQUIREMENTS FOR INSTALLATION TOLERANCES AND OTHER CONDITIONS AFFECTING PERFORMANCE. RECORD OBSERVATIONS.

CC. EXAMINE ROUGHING-IN FOR MECHANICAL AND ELECTRICAL SYSTEMS TO VERIFY ACTUAL LOCATIONS OF CONNECTIONS BEFORE EQUIPMENT AND FIXTURE INSTALLATION. EXAMINE WALLS, FLOORS, AND ROOFS FOR SUITABLE CONDITIONS WHERE PRODUCTS AND SYSTEMS ARE TO BE INSTALLED. VERIFY COMPATIBILITY WITH AND SUITABILITY OF SUBSTRATES, INCLUDING COMPATIBILITY WITH EXISTING FINISHES OR PRIMERS.

DD. PROCEED WITH INSTALLATION ONLY AFTER UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED. PROCEEDING WITH THE WORK INDICATES ACCEPTANCE OF SURFACES AND CONDITIONS.

EE. MAKE JOINTS OF UNIFORM WIDTH. WHERE JOINT LOCATIONS IN EXPOSED WORK ARE NOT INDICATED, ARRANGE JOINTS FOR THE BEST VISUAL EFFECT. FIT EXPOSED CONNECTIONS TOGETHER TO FORM HAIRLINE JOINTS.

FF. GRAPHIC PATTERNS OR HATCHES SHOWN IN DRAWINGS REPRESENT CONSTRUCTION MATERIALS AND ARE NOT TO BE USED AS LITERAL CONSTRUCTION GUIDELINES. CONTRACTOR IS TO COORDINATE ALL MATERIAL LAYOUT PRIOR TO CONSTRUCTION AND PROVIDE WORK BASED ON MANUFACTURER'S RECOMMENDATIONS AND STANDARD CONSTRUCTION TECHNIQUES. IF QUESTIONS ARISE CONTACT ARCHITECT FOR INTERPRETATION PRIOR TO CONSTRUCTION.

ARCHITECTURAL SYMBOLS

	COLUMN GRID LINE (EXISTING - HALF-TONE)
	COLUMN GRID LINE (NEW)
	CENTER LINE
	DIMENSION LINE TO FACE OF STUD, FACE OF CONCRETE, COLUMN LINE, OR AS NOTED.
	ROOM TAG
	ROOM NAME
	ROOM NUMBER
	AREA OR VOLUME
	WALL TYPE TAG
	WINDOW TAG
	DRAWING REVISION
	KEYNOTE
	NORTH ARROW
	LEVEL DATUM
	LEVEL NAME
	LEVEL ELEVATION
	SPOT ELEVATION
	DETAIL - SECTION
	POSITION ON SHEET SHEET NUMBER
	DETAIL - PLAN
	POSITION ON SHEET SHEET NUMBER
	BUILDING SECTION
	POSITION ON SHEET SHEET NUMBER
	WALL SECTION
	POSITION ON SHEET SHEET NUMBER
	EXTERIOR ELEVATION
	POSITION ON SHEET SHEET NUMBER
	INTERIOR ELEVATION
	POSITION ON SHEET SHEET NUMBER
	VIEW TITLE
	DRAWING NUMBER
	DRAWING SCALE

ABBREVIATIONS:

ABBREVIATION	DESCRIPTION
AB	ANCHOR BOLT
AFF	ABOVE FINISH FLOOR
ALUM	ALUMINUM
APPROX	APPROXIMATELY
BD	BOARD
BLDG	BUILDING
BM	BEAM
BOT	BOTTOM
BOS	BOTTOM OF STEEL
BRG	BEARING
CB	CONTROL/CONSTRUCTION JOINT
CLG	CEILING
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONT	CONTINUOUS
CONTR	CONTRACTOR
CTR	CENTER
DRL	DOUBLE
DEMO	DEMOLITION
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DN	DOWN
DWG	DRAWING
EX	EXISTING
EA	EACH
ELEV	ELEVATION
EMB	EMBEDDED
EQ	EQUAL
EXP	EXPANSION
FJ	FUTURE
FB	FLAT BAR
FD	FLOOR DRAIN
FEC	FIRE EXTINGUISHER CABINET
FIN	FINISH
FLASH	FLASHING
FLR	FLOOR
FOB	FACE OF BRICK
FOF	FACE OF FOUNDATION
FOM	FACE OF MASONRY
FOS	FACE OF STUD
FT	FOOT/FEET
GA	GAUGE
GALV	GALVANIZED
GI	GALVANIZED IRON
GRD	GROUND
GYP	GYPSPUM
H	HIGH
HB	HOSE BIB
HM	HOLLOW METAL OF HERMAN MILLER
HORIZ	HORIZONTAL
HP	HIGH POINT
HR	HOUR
HS	HIGH STRENGTH
HT	HEIGHT
ID	INSIDE DIAMETER
INSUL	INSULATION
JT	JOINT
LG	LONG
LLV	LONG LEG VERTICAL
MAX	MAXIMUM
MB	MECHANICAL BOLT
MECH	MECHANICAL
MET	METAL
MFR	MANUFACTURER
MIN	MINIMUM
MO	MASONRY OPENING
N	NEW
NIC	NOT IN CONTRACT
NO	NUMBER
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OH	OPPOSITE HAND
OPNG	OPENING
OPP	OPPOSITE
PL	PLATE
PROJ	PROJECTION
PT	POINT
R	RISER
(R)	RELOCATED
RAD	RADIUS
RD	ROOF DRAIN
REF	REFERENCE
REIN	REINFORCEMENT, REINFORCED
REQ	REQUIREMENT
RO	ROUGH OPENING
RWC	RAIN WATER CONDUCTOR OR DOWNSPOUT
SECT	SECTION
SIM	SIMILAR
SHT	SHEET
SPEC	SPECIFICATION
SQ	SQUARE
STD	STANDARD
STL	STEEL
STR	STRUCTURAL
TEL	TELEPHONE
TO	TOP OF
TOC	TOP OF CURB
TOJ	TOP OF JOIST
TOS	TOP OF STEEL
TOW	TOP OF WALL
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
W	WIDE
W	WITH
WD	WOOD
WO	WIDTH OF OPENING
WR	WEATHERROOF
WR	WATER RESISTENT
WS	WOOD SCREW
WS	WORKSURFACE
WT	WEIGHT
WWF	WELDED WIRE FABRIC



PROJECT NAME:
**ELKHORN FIRE STATION
REMODEL - SLEEPING
QUARTERS**

CITY OF SUN VALLEY

100 ARROWLEAF RD., SUN VALLEY, ID 83353

MARK	DATE	DESCRIPTION

PROJECT PHASE: **CD**

PROJECT NUMBER: 15-92

PROJECT MANAGER: R.TeBeau

PROJECT ARCHITECT: R.Stewart

DESIGN: R.TeBeau

DRAWN BY: R.Stewart

**1ST FLOOR CODE
ANALYSIS & LIFE
SAFETY PLAN**

G003

CODE REVIEW:

ADDRESS:
100 ARROW LEAF ROAD,
SUN VALLEY, ID 83353

APPLICABLE CODES:
2012 INTERNATIONAL BUILDING CODE, INCLUDING APPENDICES A, B, C,
E, F, G, H, I, AND J, EXCLUDING SECTION 101.4.3; (Ord. 467, 1-6-2014)
2012 INTERNATIONAL RESIDENTIAL CODE, PARTS I THROUGH VI AND
PART IX, INCLUDING APPENDICES A, B, D, E, F, G, H, J, K, AND M; (Ord.
474, 2-5-2015)
2012 INTERNATIONAL ENERGY CONSERVATION CODE (Ord. 474, 2-5-2015)
IDAHO STATE PLUMBING CODE
2014 NATIONAL ELECTRIC CODE
2012 INTERNATIONAL FIRE CODE, INCLUDING APPENDICES B, C, D, and I,
(Ord. 474, 2-5-2015)
2009 INTERNATIONAL MECHANICAL CODE, INCLUDING APPENDIX A
2009 INTERNATIONAL FUEL GAS CODE CODE, INCLUDING APPENDICES
A, B, C, and D; (Ord. 439, 12-16-2010, eff. 1-1-2011)
2012 INTERNATIONAL EXISTING BUILDING CODE, (Ord. 467, 1-6-2014)
2009 INTERNATIONAL PROPERTY MAINTENANCE CODE, AND (Ord. 439, 12-
16-2010, eff. 1-1-2011)

TYPE OF CONSTRUCTION:
CONSTRUCTION TYPE: EXISTING BUILDING TYPE VB

FIRE SPRINKLER AND FIRE ALARM
FIRE SPRINKLER SYSTEM - NO
FIRE ALARM SYSTEM - YES

FIRE ALARM PER SECTION 907

ALLOWABLE SQUARE FOOTAGE:
IBC TABLE 503:
OCCUPANCY CLASSIFICATION (IBC CHAPTER 3): **B-BUSINESS**

ALLOWABLE HEIGHT = 2 STORIES
ALLOWABLE SQUARE FOOTAGE PER STORY= **9,000 SF**

TOTAL BUILDING AREA: **8,970 SF**
TENANT IMPROVEMENT AREA: **2,100 SF**

OCCUPANT LOAD
SEE CODE PLAN & 'OCCUPANCY SCHEDULE' THIS SHEET.
TOTAL: **21 OCCUPANTS**

EXITS
1014.3 THE COMMON PATH OF EGRESS TRAVEL SHALL NOT EXCEED
THE COMMON PATH OF EGRESS TRAVEL DISTANCE. MAXIMUM
TRAVEL DISTANCE = 75'-0"

TRAVEL DISTANCE = **65'-4"** (SEE CODE REVIEW PLAN)

1015.1.1 (1) EXITS SHALL BE PROVIDED
(1) REQUIRED - (1) PROVIDED

PLUMBING FIXTURE REQUIREMENTS:
SEE "PLUMBING FIXTURE REQUIREMENTS" (THIS SHEET) FOR
DETAILED BREAKDOWN OF REQUIRED FIXTURES AND PROVIDED
FIXTURES.

GENERAL NOTES CODE PLAN:

A. ALL CONSTRUCTION ADDENDA, CHANGE ORDERS, OR DESIGN
CLARIFICATIONS MUST BE SUBMITTED TO THE BUILDING DEPARTMENT
OFFICE STAFF FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION
IN THE FIELD. THE FIELD INSPECTOR WILL NOT APPROVE CHANGES TO
THESE APPROVED PLANS AND SPECIFICATIONS.

B. ABBREVIATIONS OR PARTIAL CODE SECTIONS NOTED ON THE
PLAN AND PLAN REVIEW LIST ARE INTENDED TO INDICATE THE
NATURE OF THE PLAN DEFICIENCY OR GIVE ADDITIONAL INFORMATION.
THE FULL TEXT OF THE CODE, AS INDICATED BY THE CODE SECTION
REFERENCED, ALWAYS APPLIES.

C. THE ISSUANCE OR GRANTING OF A PERMIT OR APPROVAL OF
PLANS, SPECIFICATIONS, AND COMPUTATIONS SHALL NOT BE
CONSTRUED TO BE A PERMIT FOR, OR AN APPROVAL OF, ANY
VIOLATION OF ANY OF THE PROVISIONS OF THE IBC OR ANY OTHER
ORDINANCE OF THIS JURISDICTION. PERMITS PRESUMING TO GIVE
AUTHORITY TO VIOLATE OR CANCEL THE PROVISIONS OF THE IBC OR
OTHER ORDINANCES OF THIS JURISDICTION SHALL NOT BE VALID.

D. APPROVAL AS A RESULT OF AN INSPECTION SHALL NOT BE
CONSTRUED TO BE AN APPROVAL OF VIOLATIONS OF THE PROVISIONS
OF THE IBC OR OF OTHER ORDINANCES OF THIS JURISDICTION.
INSPECTIONS PRESUMING TO GIVE AUTHORITY TO VIOLATE OR
CANCEL THE PROVISIONS OF THE IBC OR OF OTHER ORDINANCES OF
THIS JURISDICTION SHALL NOT BE VALID.

E. ALTERATIONS OR REPAIRS TO ANY BUILDING OR STRUCTURE
SHALL CONFORM WITH THE REQUIREMENTS OF THE PLAN REVIEW
COMMENTS. ADDITIONS OR ALTERATIONS SHALL NOT BE MADE TO AN
EXISTING STRUCTURE WHICH WILL CAUSE THE EXISTING BUILDING OR
STRUCTURE TO BE IN VIOLATION OF ANY PROVISIONS APPLICABLE IN
THE IBC.

LIFE SAFETY LEGEND

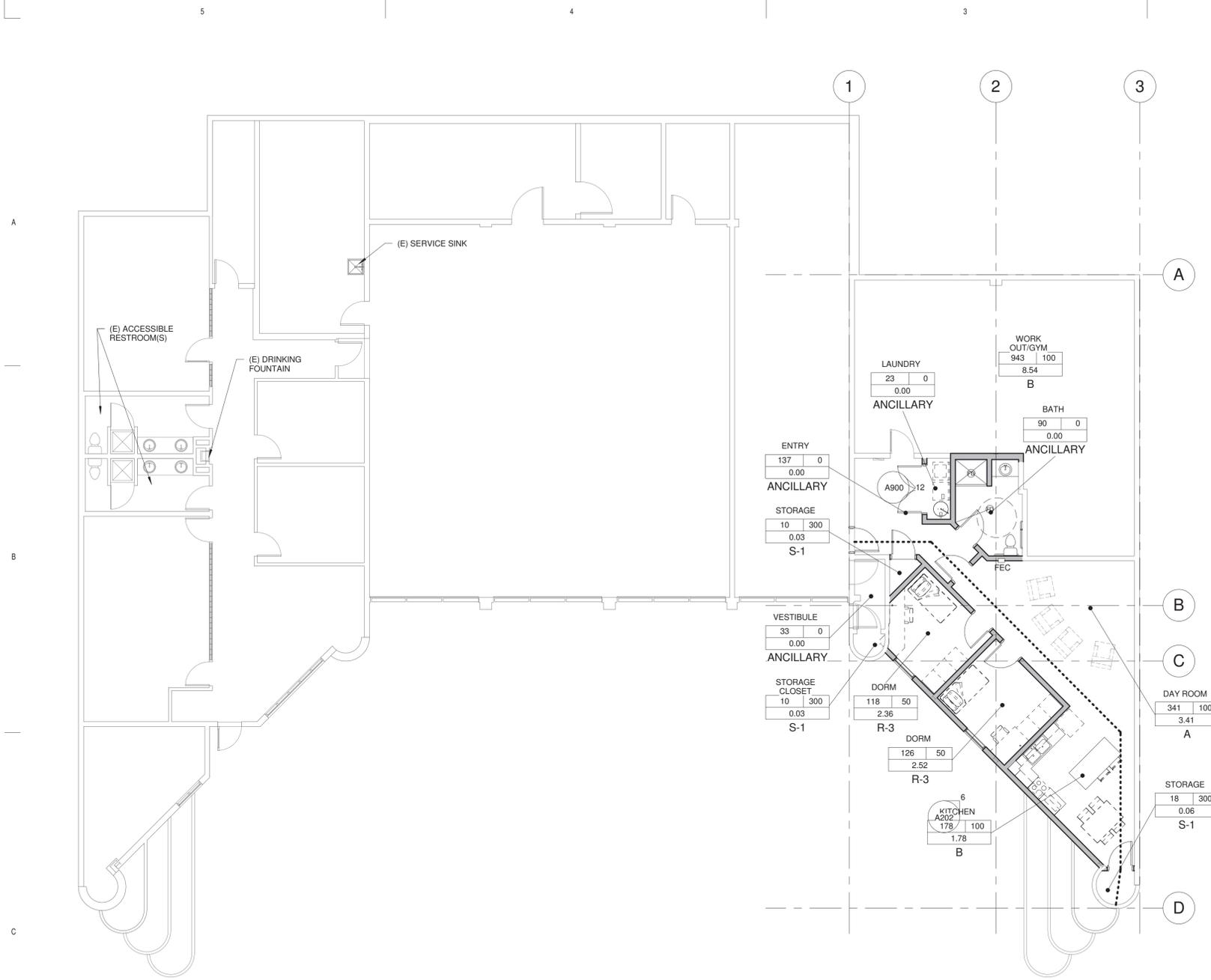
XXX	NAME
XXX	ROOM AREA
XXX	OCCUPANCY LOAD FACTOR
XXX	OCCUPANT LOAD
XXX	OCCUPANCY TYPE
EXIT	BUILDING EXIT & OVERHEAD EXIT SIGNAGE PER JURISDICTION REQUIREMENTS
FEC	FIRE EXTINGUISHER - PROVIDE LARSEN'S MP10 FIRE EXTINGUISHER W/ VERTICAL DUO 2-1/2" SEMI-RECESSED CABINET OR APPROVED EQUAL
CPOET	CPOET = COMMON PATH OF EGRESS TRAVEL
-----	ACCESSIBLE ROUTE OF TRAVEL

OCCUPANT LOAD

NAME	AREA	OCCUPANCY TYPE	OCCUPANCY LOAD FACTOR	OCCUPANCY LOAD
1ST FLOOR				
WORK OUT/GYM	943 SF	B	100	8.54
VESTIBULE	33 SF	ANCILLARY	0	0.00
STORAGE CLOSET	10 SF	S-1	300	0.03
DORM	118 SF	R-3	50	2.36
DORM	126 SF	R-3	50	2.52
KITCHEN	178 SF	B	100	1.78
ENTRY	137 SF	ANCILLARY	0	0.00
BATH	90 SF	ANCILLARY	0	0.00
STORAGE	10 SF	S-1	300	0.03
DAY ROOM	341 SF	A	100	3.41
LAUNDRY	23 SF	ANCILLARY	0	0.00
STORAGE	18 SF	S-1	300	0.06
				18.74

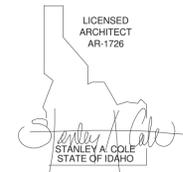
Used Group	Description	No. of Occupants	Required water closet		Required lavatories		Required bath or shower	Required drinking fountain	
			Male:	Female:	Male:	Female:	Total:	Total:	Other
B	Building for the transaction of business, professional services, other services involving merchandise, office building, banks, light industrial and similar uses	11	1 per 25 for the first 50 and 1 per 50 for the remainder exceeding 50	1 per 25 for the first 50 and 1 per 50 for the remainder exceeding 50	1 per 40 for the first 80 and 1 per 80 for the remainder exceeding 80	1 per 40 for the first 80 and 1 per 80 for the remainder exceeding 80		1 per 100	1 Service sink
A-3	Auditoriums without permanent seating, art galleries, exhibition halls, museums, lecture halls, libraries, arcades and gymnasiums	4	1 per 125	1 per 65	1 per 200	1 per 200		1 per 500	1 Service sink
R-3	Congregate living facilities with 16 or fewer persons	5	1 per 10	1 per 10	1 per 10	1 per 10	1 per 8	1 per 100	1 Service sink
S-1 & S-2	Structure for storage of goods, warehouses, storehouse and freight depots, low and moderate hazard	1	1 per 100	1 per 100	1 per 100	1 per 100		1 per 1000	1 Service sink
Total =			1	1	1	1	2	1	

NOTE:
1. DRINKING FOUNTAIN PROVIDED IN EXISTING BUILDING.
2. SERVICE SINK PROVIDED IN EXISTING BUILDING.



1ST FLOOR CODE PLAN
1/8" = 1'-0"





PROJECT NAME:
**ELKHORN FIRE STATION
REMODEL - SLEEPING
QUARTERS**

CITY OF SUN VALLEY

100 ARROWLEAF RD., SUN VALLEY, ID 83353

MARK	DATE	DESCRIPTION
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PROJECT PHASE CD

PROJECT NUMBER 15-92

PROJECT MANAGER R.TeBeau

PROJECT ARCHITECT R.Stewart

DESIGN R.TeBeau

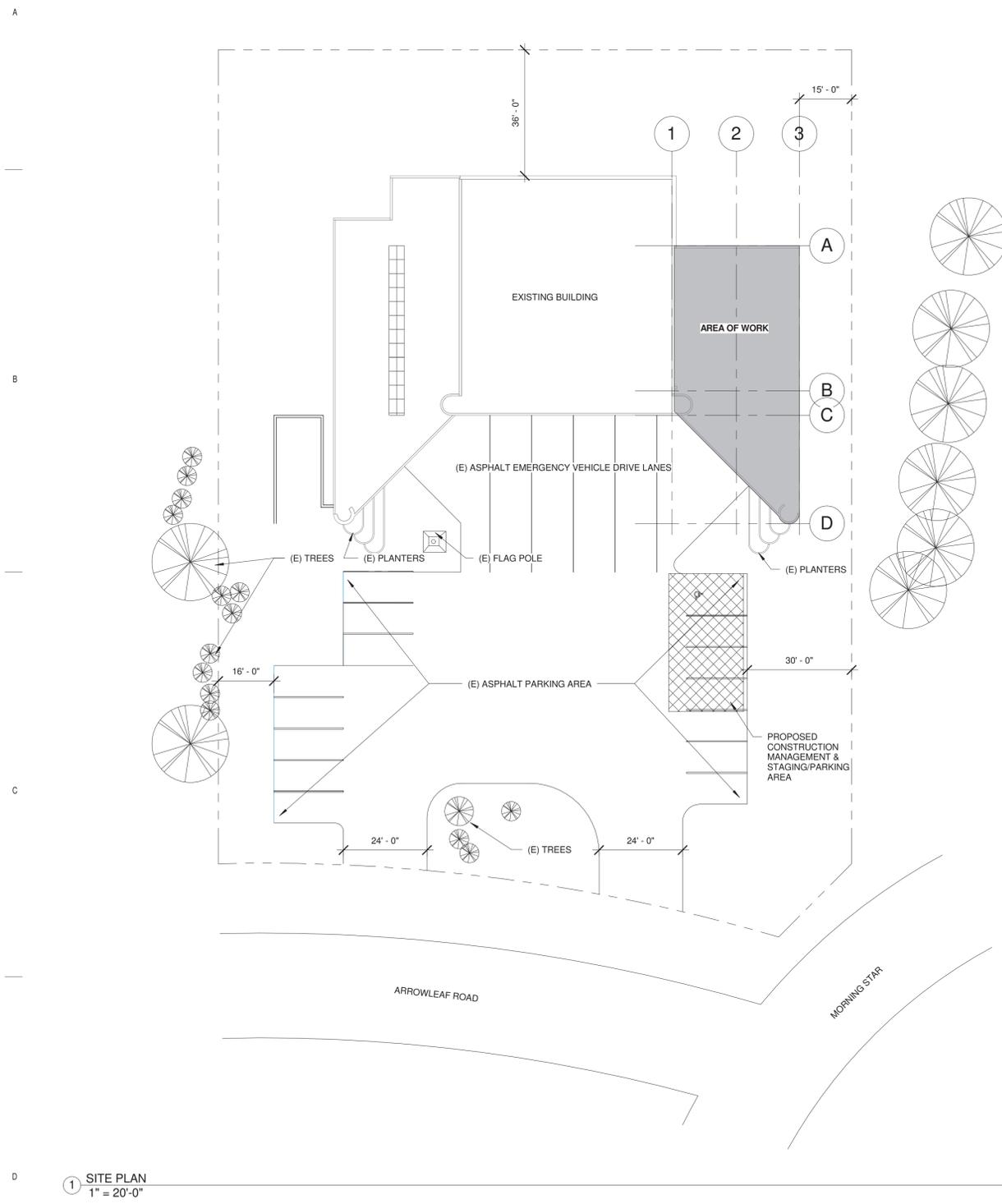
DRAWN BY Author

SITE PLAN

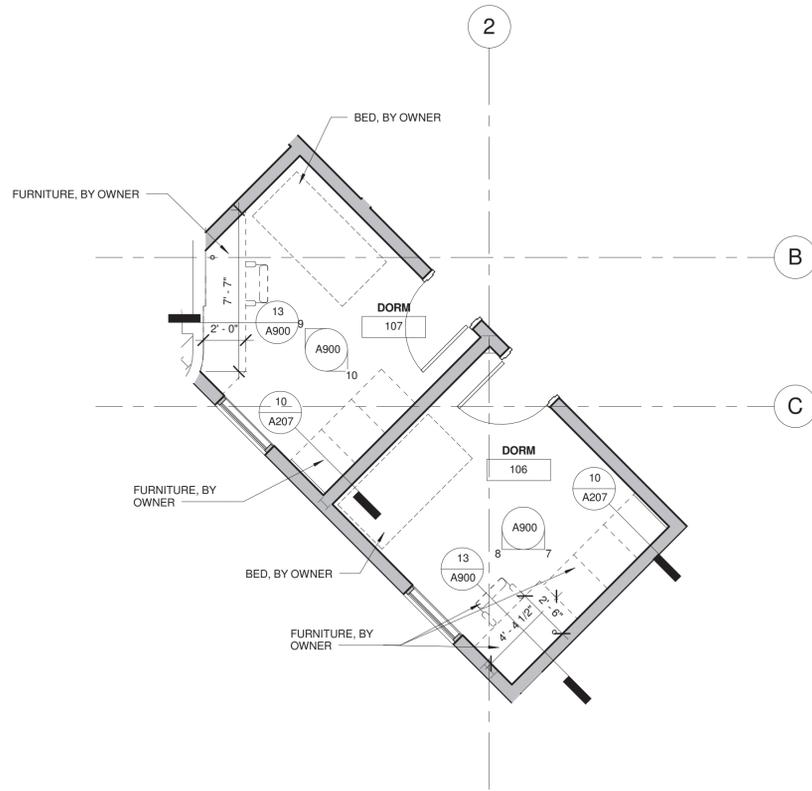
A101

GENERAL NOTES SITE PLAN:

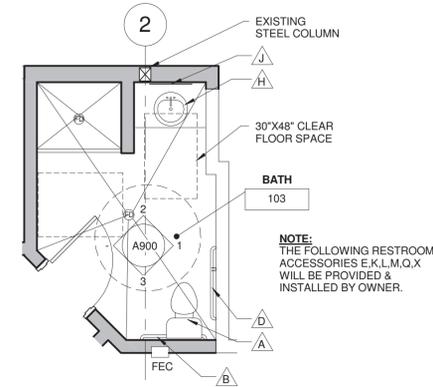
- A. BEFORE PROCEEDING TO LAY OUT THE WORK, VERIFY LAYOUT INFORMATION SHOWN ON DRAWINGS, IN RELATION TO THE PROPERTY SURVEY AND EXISTING BENCHMARKS. IF DISCREPANCIES ARE DISCOVERED, NOTIFY ARCHITECT PROMPTLY.
- B. ENGAGE A LAND SURVEYOR OR PROFESSIONAL ENGINEER TO LAY OUT THE WORK USING ACCEPTED SURVEYING PRACTICES.
- C. ESTABLISH BENCHMARKS AND CONTROL POINTS TO SET LINES AND LEVELS AT EACH STORY OF CONSTRUCTION AND ELSEWHERE AS NEEDED TO LOCATE EACH ELEMENT OF PROJECT.
- D. ESTABLISH LIMITS ON USE OF PROJECT SITE. IF STAGING AREA IS NOT DESIGNATED ON PLANS, THEN COORDINATE LOCATION WITH OWNER.
- E. ESTABLISH DIMENSIONS WITHIN TOLERANCES INDICATED. DO NOT SCALE DRAWINGS TO OBTAIN REQUIRED DIMENSIONS.
- F. INFORM SUBCONTRACTORS OF LINES AND LEVELS TO WHICH THEY MUST COMPLY.
- G. CHECK THE LOCATION, LEVEL AND PLUMB, OF EVERY MAJOR ELEMENT AS THE WORK PROGRESSES.
- H. LOCATE AND LAY OUT CONTROL LINES AND LEVELS FOR STRUCTURES, BUILDING FOUNDATIONS, COLUMN GRIDS, AND FLOOR LEVELS, INCLUDING THOSE REQUIRED FOR MECHANICAL AND ELECTRICAL WORK. TRANSFER SURVEY MARKINGS AND ELEVATIONS FOR USE WITH CONTROL LINES AND LEVELS. LEVEL FOUNDATIONS AND PIERS FROM TWO OR MORE LOCATIONS.



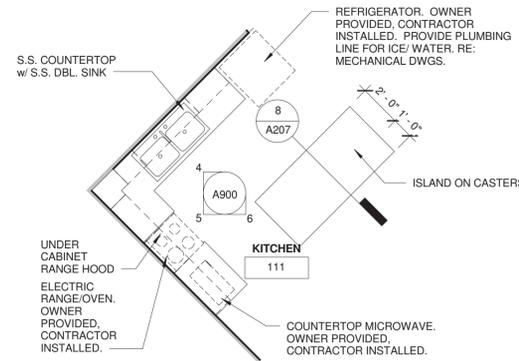
1 SITE PLAN
1" = 20'-0"



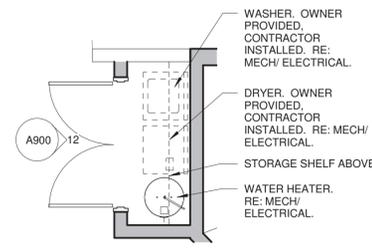
1 DORMS - ENLARGED PLANS
1/4" = 1'-0"



2 BATH - ENLARGED PLAN
1/4" = 1'-0"



3 KITCHEN - ENLARGED PLAN
1/4" = 1'-0"



4 LAUNDRY - ENLARGED PLAN
1/4" = 1'-0"

GENERAL NOTES ENLARGED PLANS:
A. REFERENCE SHEET A900 FOR PLUMBING FIXTURE MOUNTING HEIGHTS.

STAMP:
LICENSED ARCHITECT
AR-1726
Stanley A. Cole
STANLEY A. COLE
STATE OF IDAHO

CONSULTANT:

PROJECT INFORMATION:
PROJECT NAME:
**ELKHORN FIRE STATION
REMODEL - SLEEPING
QUARTERS**
CITY OF SUN VALLEY
100 ARROWLEAF RD., SUN VALLEY, ID 83353

REVISIONS:

MARK	DATE	DESCRIPTION
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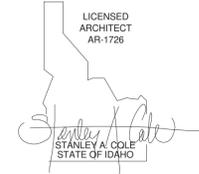
PROJECT PHASE	CD
PROJECT NUMBER	15-92
PROJECT MANAGER	R.TeBeau
PROJECT ARCHITECT	R.Stewart
DESIGN	R.TeBeau
DRAWN BY	R.Stewart

SHEET NAME:

ENLARGED PLANS

SHEET NUMBER:

A206



PROJECT NAME:
**ELKHORN FIRE STATION
REMODEL - SLEEPING
QUARTERS**

CITY OF SUN VALLEY

100 ARROWLEAF RD., SUN VALLEY, ID 83353

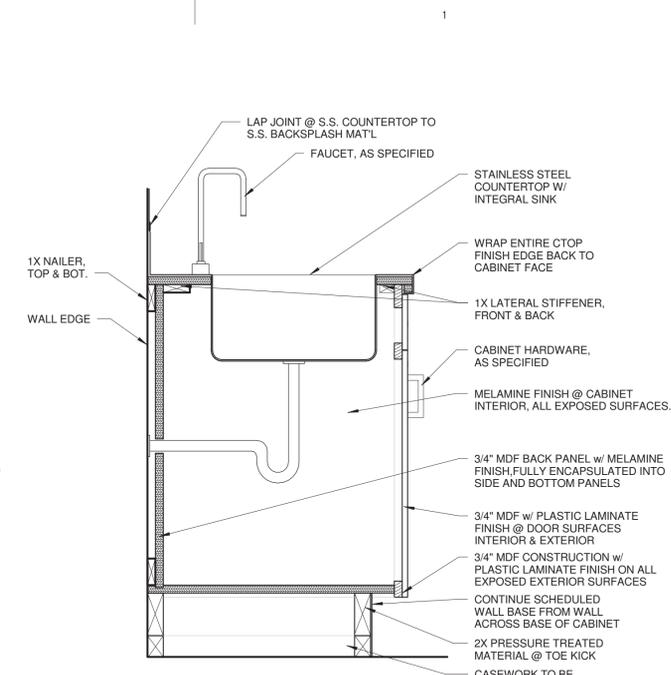
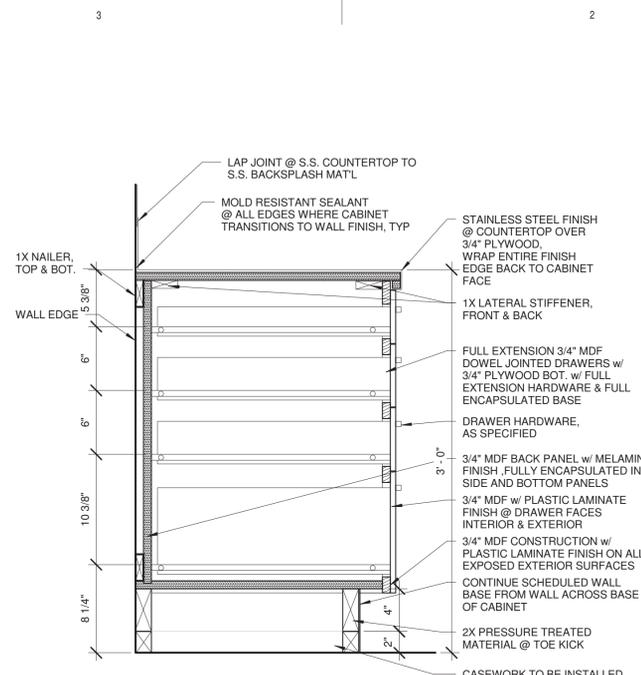
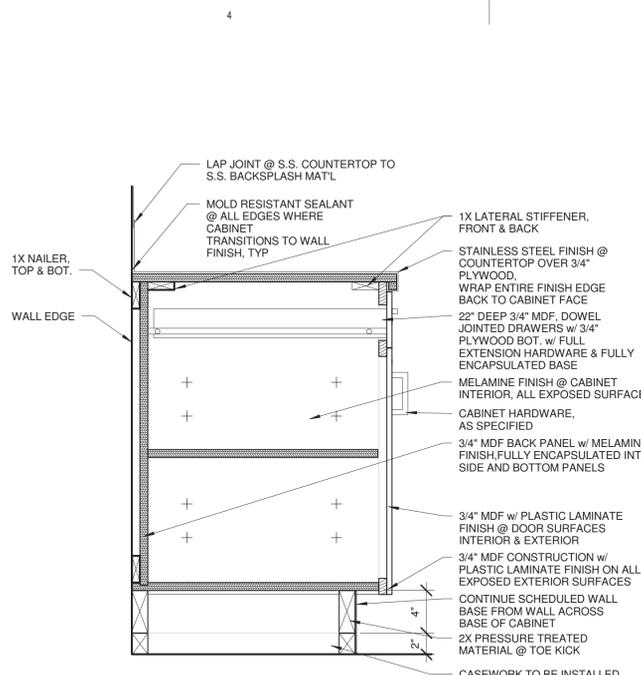
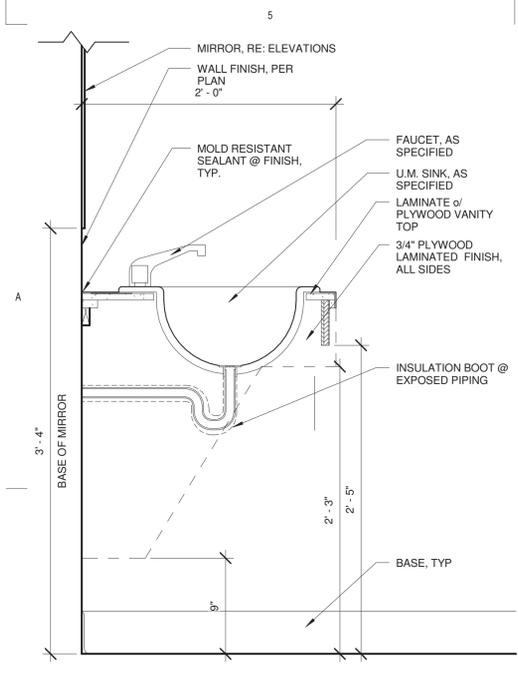
MARK	DATE	DESCRIPTION

PROJECT PHASE **CD**

PROJECT NUMBER 15-92
PROJECT MANAGER R.TeBeau
PROJECT ARCHITECT R.Stewart
DESIGN R.TeBeau
DRAWN BY R.Stewart

DETAILS

A207

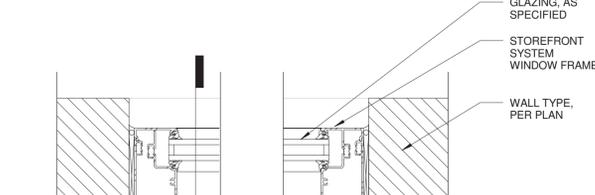
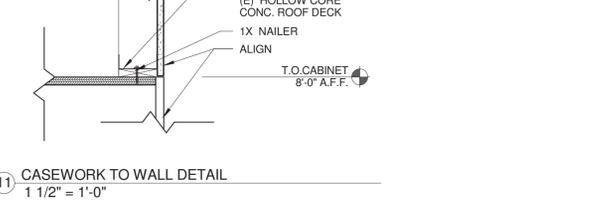
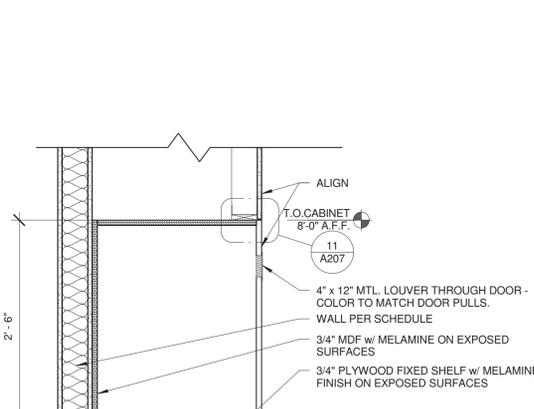
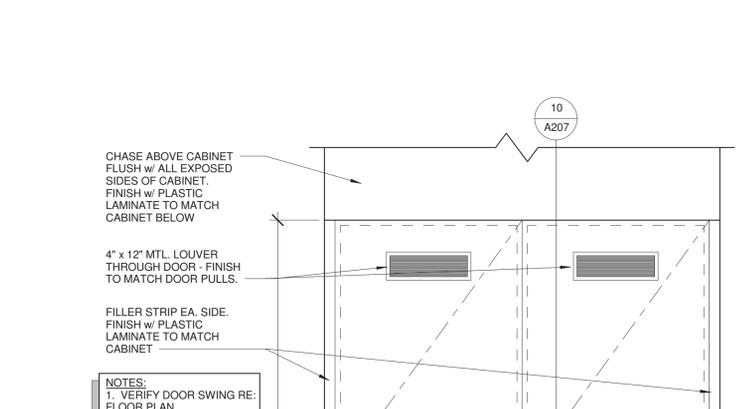
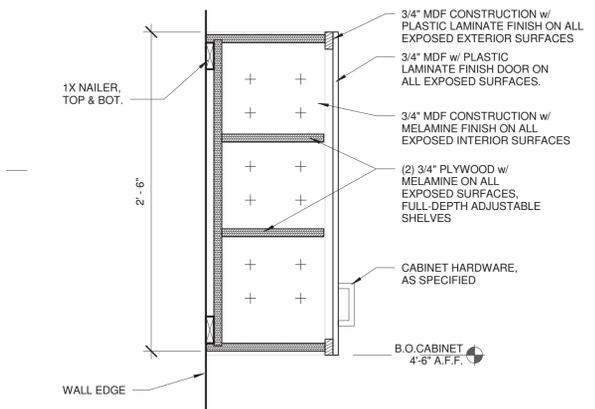


1 RESTROOM VANITY - ADA
1 1/2" = 1'-0"

2 BASE CABINET SECTION
1 1/2" = 1'-0"

3 BASE CABINET W/ DRAWERS SECTION
1 1/2" = 1'-0"

4 BASE CABINET W/ SINK SECTION
1 1/2" = 1'-0"



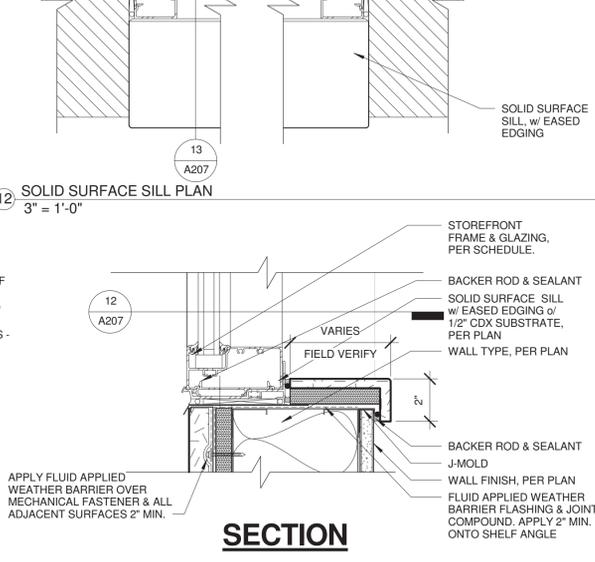
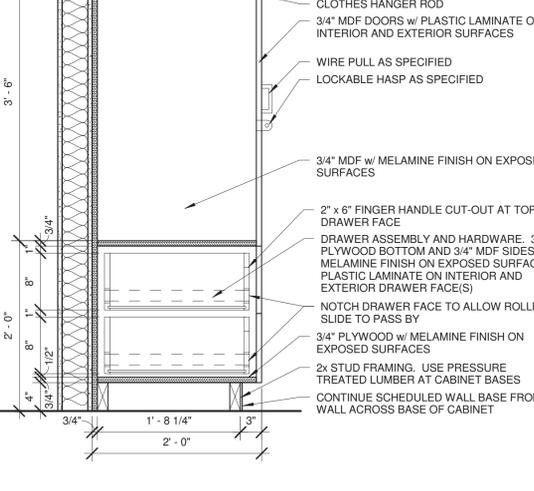
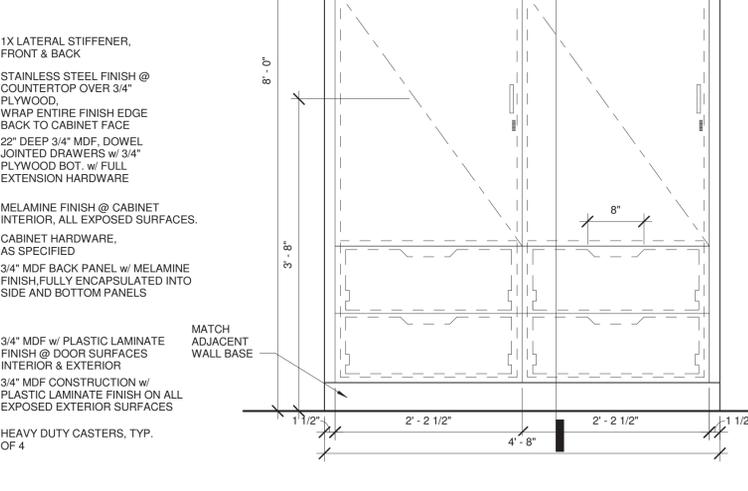
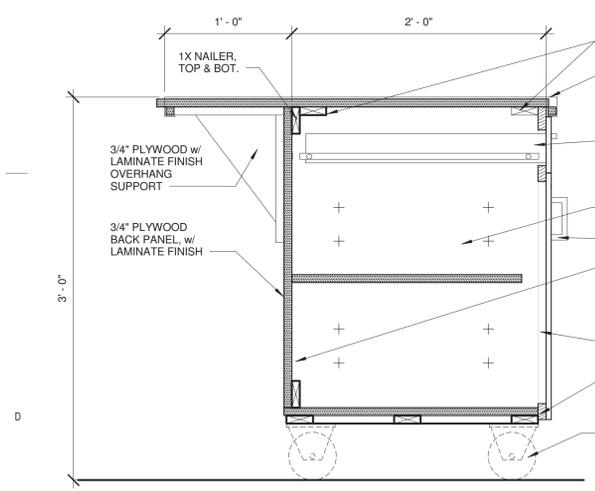
7 TYPICAL WALL CABINET SECTION
1 1/2" = 1'-0"

10 CLOTHING STORAGE CABINET SECTION
1" = 1'-0"

10 CLOTHING STORAGE CABINET SECTION
1" = 1'-0"

11 CASEWORK TO WALL DETAIL
1 1/2" = 1'-0"

12 SOLID SURFACE SILL PLAN
3" = 1'-0"



8 TYPICAL ISLAND CABINET SECTION
1 1/2" = 1'-0"

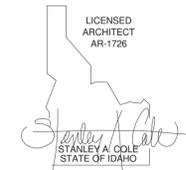
9 CLOTHING STORAGE CABINET SECTION
1" = 1'-0"

10 CLOTHING STORAGE CABINET SECTION
1" = 1'-0"

13 SOLID SURFACE SILL DETAIL
3" = 1'-0"

BY OWNER, N.I.C. - FOR REFERENCE ONLY

BY OWNER, N.I.C. - FOR REFERENCE ONLY



PROJECT NAME:
**ELKHORN FIRE STATION
REMODEL - SLEEPING
QUARTERS**

CITY OF SUN VALLEY

100 ARROWLEAF RD., SUN VALLEY, ID 83353

MARK	DATE	DESCRIPTION

PROJECT PHASE **CD**

PROJECT NUMBER 15-92

PROJECT MANAGER R.TeBeau

PROJECT ARCHITECT R.Stewart

DESIGN R.TeBeau

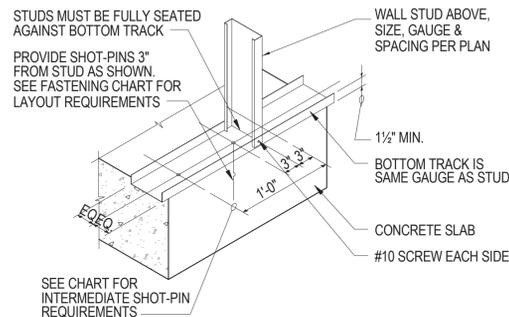
DRAWN BY R.Stewart

METAL STUD WALL TYPES

A602

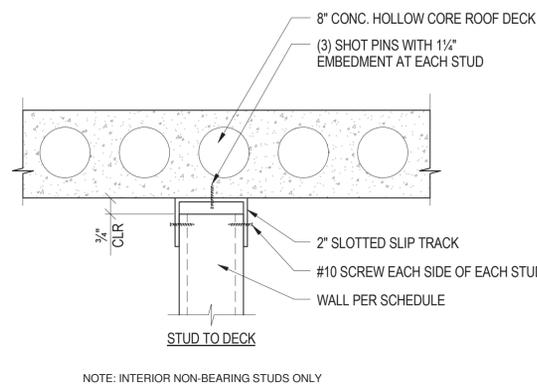
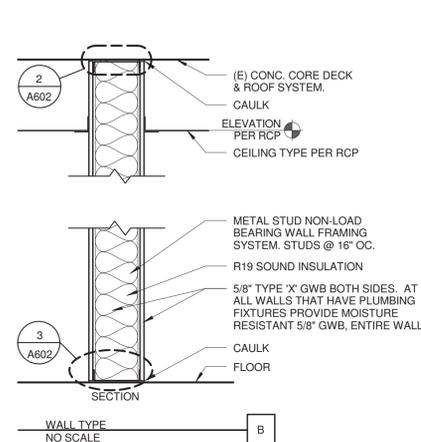
FASTENING CHART	
WALL CONDITION	FASTENING REQUIREMENT
FULL HEIGHT STUD WALLS	(1) SHOT-PIN @ 24" O.C., PROVIDE (1) SHOT-PIN WITHIN 9" OF WALL END OR JAMB

- NOTES:
1. All "shot-pins" shall be low velocity type fasteners as manufactured by Hilti corporation. Attach light-gage material to concrete with Hilti X-U 27 P8-S15 (ERS-2269)



GENERAL NOTES WALL TYPES:

- A. REFERENCE WALL TYPES FROM FLOOR PLANS.
B. CONSTRUCT WALLS PER TYPICAL DETAILS, THIS SHEET.
1. STEEL STUD CONNECTION SCHEDULE.
2. JAMB AT VERTICAL OPENINGS.
3. WALL INTERSECTIONS.
4. SILL AT FRAMED OPENINGS.
5. BOX HEADER.
6. COLD ROLLED CHANNEL BRIDGING.



NOTE: INTERIOR NON-BEARING STUDS ONLY

1 WALL TYPES - METAL STUD
1" = 1'-0"

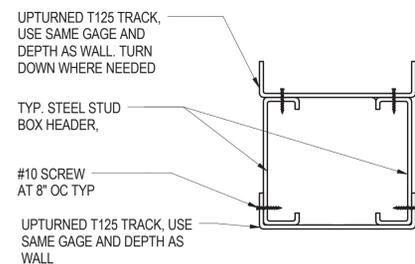
STUD SIZE SUGGESTIONS:

1. FOR EXTERIOR NON-BEARING STUD FRAMING, USE 6"X16 GA. @ 16" OC (600S162-54 STUDS @ 16" OC)
2. FOR INTERIOR NON-BEARING STUDS, USE MIN 3-5/8" X 20 GA STUDS @ 16" OC (358S162-33)
3. ALL TRACKS TO MATCH SIZE AND GAUGE OF VERTICAL STUDS

DEPTH OF TRACK OR STUDS	STUD SCREWS TO JAMB	TRACK SCREWS TO JAMB
12 INCHES	2-ROWS OF 4 EACH SIDE 16-TOTAL	1-ROW OF 4 TOP AND BOTTOM 8-TOTAL
10 INCHES	2-ROWS OF 3 EACH SIDE 12-TOTAL	1-ROW OF 4 TOP AND BOTTOM 8-TOTAL
8 INCHES	2-ROWS OF 3 EACH SIDE 12-TOTAL	1-ROW OF 3 TOP AND BOTTOM 6-TOTAL
6 INCHES	2-ROWS OF 3 EACH SIDE 12-TOTAL	1-ROW OF 3 TOP AND BOTTOM 6-TOTAL
4 INCHES	2-ROWS OF 2 EACH SIDE 8-TOTAL	1-ROW OF 3 TOP AND BOTTOM 6-TOTAL

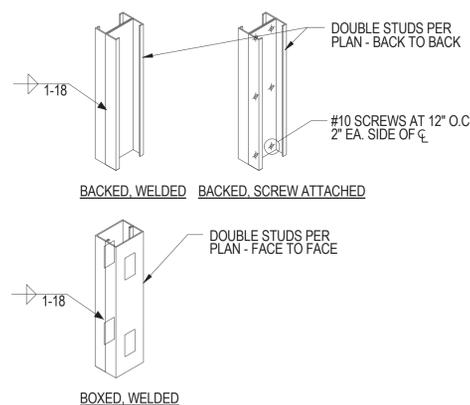
- NOTE:
1. All connections are to be made with #10 screws.

4 CONNECTION SCHEDULE
3/4" = 1'-0"

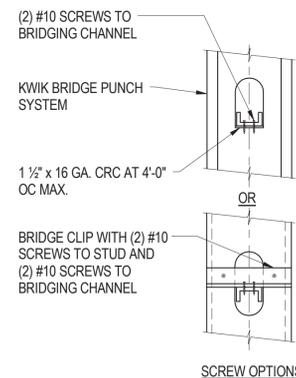


8 METAL STUD BOX HEADER
3/4" = 1'-0"

2 SLIP TRACK CONNECTION
3/4" = 1'-0"

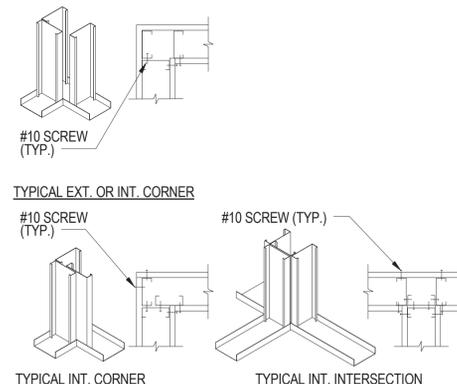


5 METAL STUD JAMBS
3/4" = 1'-0"

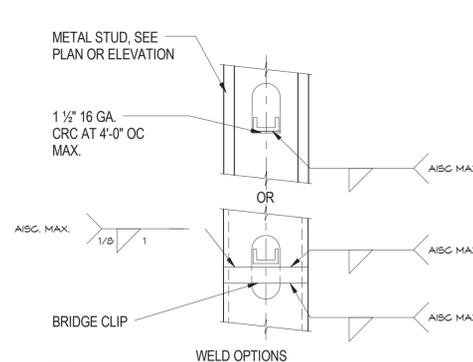


9 STEEL STUD BRIDGING
1/2" = 1'-0"

3 METAL SLIP TRACK ANCHORAGE
3/4" = 1'-0"

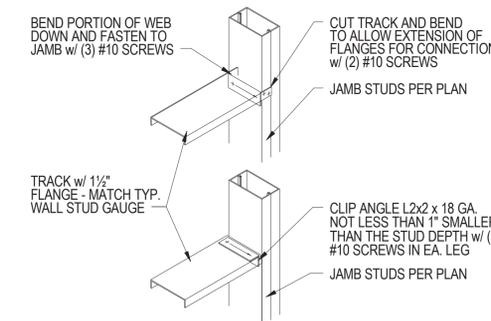


6 METAL STUD FRAMING
3/4" = 1'-0"

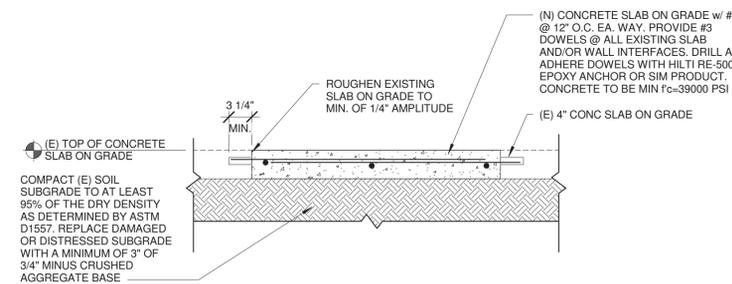


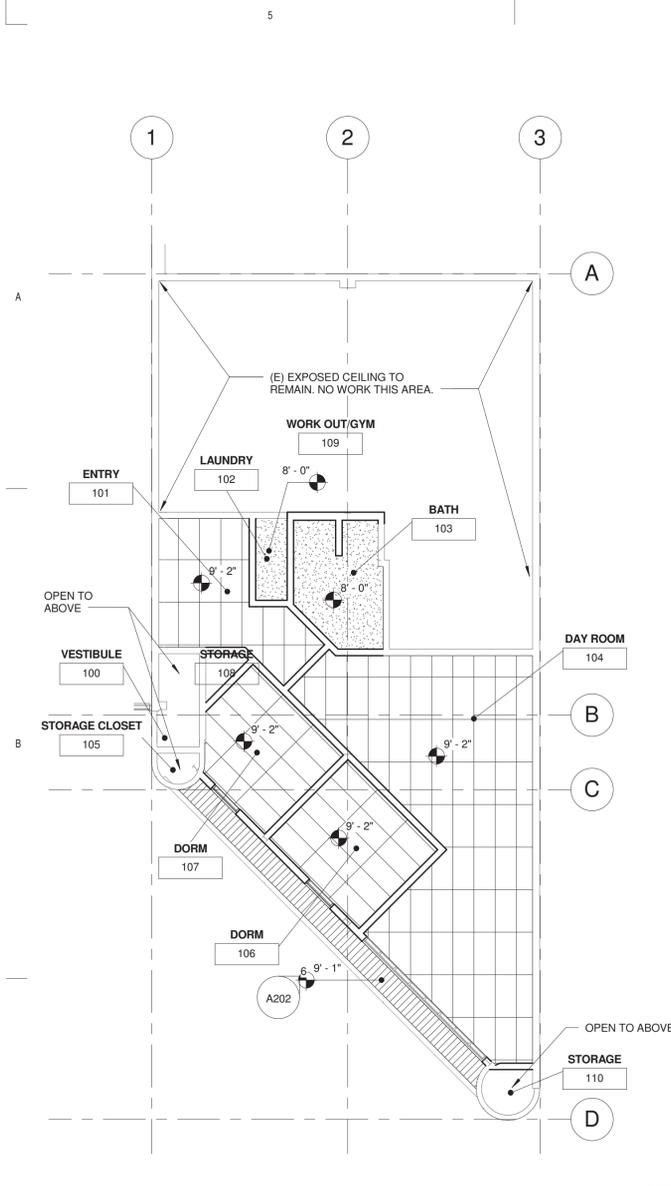
- NOTE:
1. See steel stud manufacturers association (SSMA) for bridging requirements at interior non-structural walls.

7 METAL STUD FRAMING
3/4" = 1'-0"

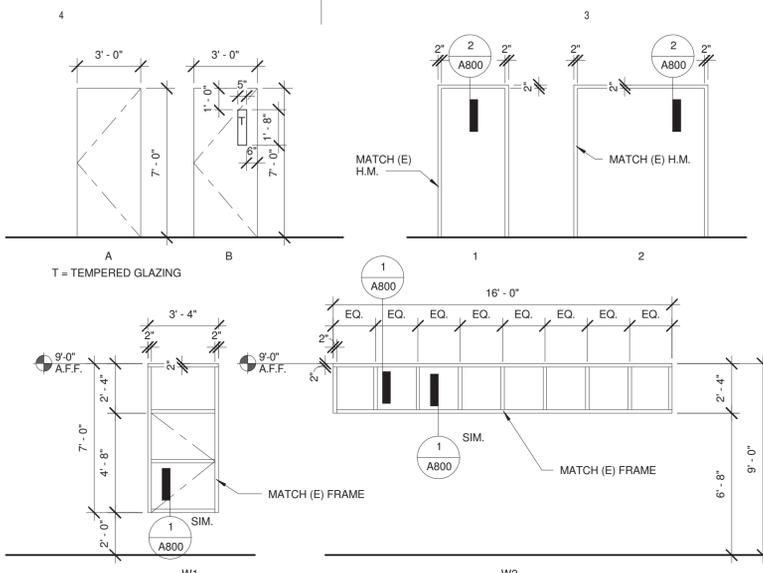


10 CONCRETE SLAB DETAIL
1" = 1'-0"

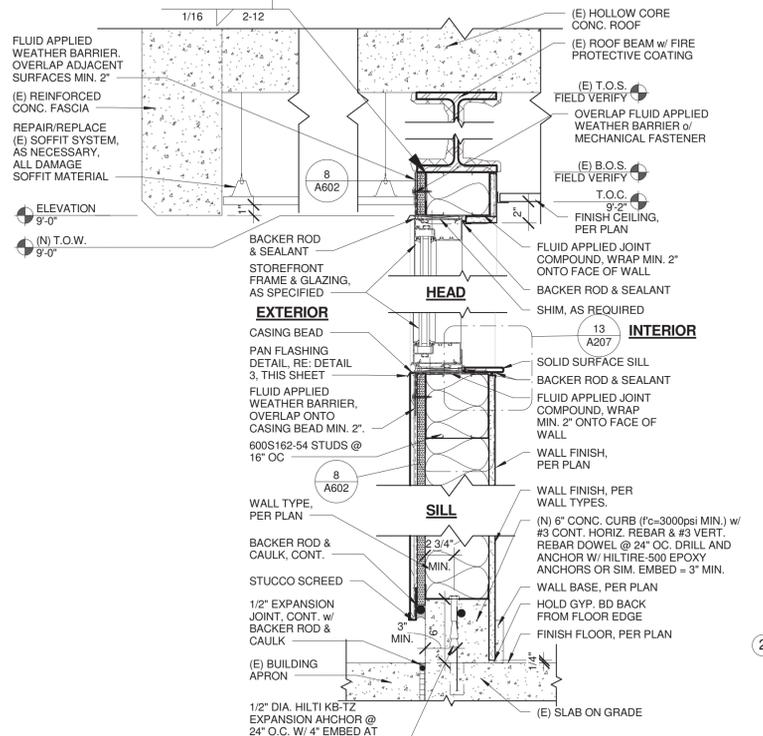




1ST FLOOR REFLECTED CEILING
1/8" = 1'-0"



WINDOW/DOOR ELEVATIONS
1/4" = 1'-0"



WINDOW DETAIL @ EXT. WALL
1 1/2" = 1'-0"

Suspended Ceiling Seismic Provisions from CISC A-2 for Design Class C

- Each individual fixture and attachments with a combined weight of 56 lbs. or less shall have two No. 12 gauge wire hangers attached at diagonal corners of the fixture. These wires must be slack. Any fixtures and attachments with a combined weight greater than 56 lbs. must be independently supported from the structure.
- The main runner/cross runner intersections and all grid splices must have an average ultimate test strength of 60 lbs. or more in both tension and compression. The tensile test must allow for a 5" offset of the connection in any direction.
- The actual average weight of the ceiling system, including grid, panels or tile, light fixtures, and air terminals must be 2.5 psf or less. All other services must be supported independently from the ceiling system. For ceilings that have an average weight greater than 2.5 psf, the ceiling may be installed as specified in CISC A Zone 3-4 provisions, taking into account the design lateral force factor appropriate for Zone 2. Other deviations or variations must be substantiated by verifiable engineering data.
- The ceiling system cannot be used to provide lateral support for walls or partitions. Walls or partitions may be attached to the ceiling grid provided they allow the ceiling membrane to move laterally to accommodate the required clearance as specified below.
- All perimeter closure angles or channels must provide a support ledge of approximately 1/8 in. or greater. A terminal end of a grid member (or tile) must rest on the ledge or mauling with at least 3/8 in. clearance from an edge or wall.

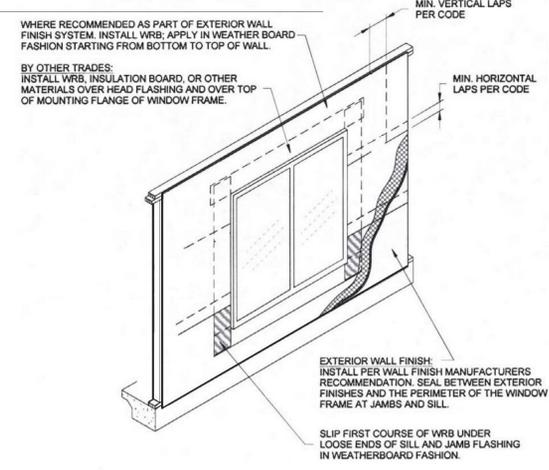
For perimeter closure angles that provide a support ledge of less than noted above, the terminal ends of each cross runner or main runner shall be independently supported within 8 in. from each wall or ceiling discontinuity. This support may be a No. 12 gauge hanger wire or other support that prevents the grid from falling. This wire does not need to be vertical but should not have a slope greater than 1 in 6 out-of-plumb. A 3/8 in. grid end clearance from a wall should be maintained.

All ceiling penetrations (columns, sprinklers, etc.) and independently supported fixtures or services are to be considered as perimeter closures that also must allow the noted clearances by using suitable escutcheons or closure details.

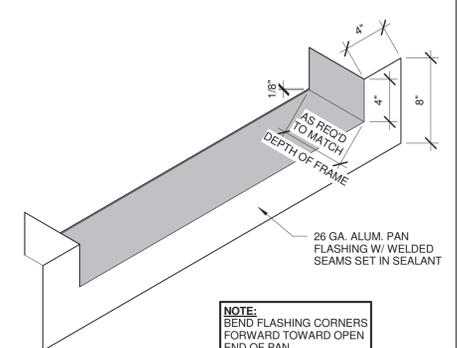
All wall closure ledges, the cross runner and main runner ends shall be prevented from spreading apart from each other. Permanent attachments (i.e. pop rivets) for grid alignment purposes shall not be permitted.

GENERAL NOTE: ACoustical SUSPENDED CEILINGs TO ALSO BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS, IBC 2006 AND ASTM C 635 AND ASTM C 636.

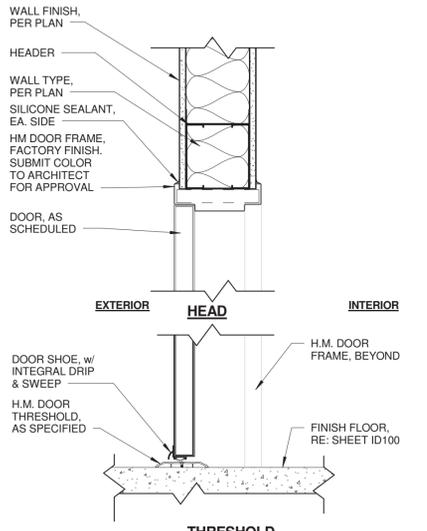
SUSPENDED CEILING
3" = 1'-0"



WINDOW - EXTERIOR WEATHER BARRIER
3/4" = 1'-0"



DOOR/WINDOW/LOUVER PAN FLASHING
1 1/2" = 1'-0"



DOOR HEAD @ MTL STUD WALL
1 1/2" = 1'-0"

DOOR AND FRAME SCHEDULE

ROOM NO.	ROOM NAME	DOOR NO.	DOOR				FRAME			HW GROU P	REMARKS			
			W	H	T	TYPE	MAT L	FINISH	GLAZING			TYPE	MATL	FINISH
101	ENTRY	101	3'-0"	7'-0"	0'-1 3/4"	B	HM	PT	T	1	HM	PT	2	90 MIN. RATING
102	LAUNDRY	102	3'-0"	7'-0"	0'-1 3/4"	A	SCWD	VEEN-1	2	HM	PT	4		
103	BATH	103	3'-0"	7'-0"	0'-1 3/4"	A	SCWD	VEEN-1	1	HM	PT	3		
104	DAY ROOM	104	3'-0"	7'-0"	0'-1 3/4"	A	SCWD	VEEN-1	1	HM	PT	2		
106	DORM	106	3'-0"	7'-0"	0'-1 3/4"	A	SCWD	VEEN-1	1	HM	PT	1		
107	DORM	107	3'-0"	7'-0"	0'-1 3/4"	A	SCWD	VEEN-1	1	HM	PT	1		
108	STORAGE	108	3'-0"	7'-0"	0'-1 3/4"	A	SCWD	VEEN-1	1	HM	PT	5		
110	STORAGE	111	3'-0"	7'-0"	0'-1 3/4"	A	SCWD	VEEN-1	1	HM	PT	5		

DOOR SCHEDULE ABBREVIATIONS:
HM HOLLOW METAL
PT PAINT
T TEMPERED GLASS
SCWD SOLID CORE WOOD
VEEN-1 WOOD VENEER
* SEE SPECIFICATIONS FOR DOOR HARDWARE SCHEDULE

GENERAL NOTES REFLECTED CEILING:

- SUBCONTRACTORS FOR EACH TRADE ARE ADVISED THAT INFORMATION PERTINENT TO THEIR WORK MAY OCCUR IN OTHER PORTIONS OF THE CONTRACT DOCUMENTS. ALL NOTES ARE TO BE REVIEWED AND APPLIED TO RELATED BUILDING DOCUMENTS.
- FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS. NOTIFY ARCHITECT IMMEDIATELY IF ANY CONFLICTS OR DISCREPANCIES OCCUR BEFORE AND/OR DURING CONSTRUCTION.
- CROSS REFERENCES SHOWN ON DRAWINGS DO NOT NECESSARILY INDICATE ALL LIKE CONDITIONS AND DO NOT LIMIT APPLICATION OF ANY DRAWING OR DETAIL. WHERE SPECIFIC DIMENSIONS, DETAILS, OR DESIGN INTENT CANNOT BE DETERMINED, CONSULT THE ARCHITECT PRIOR TO PROCEEDING WITH WORK.
- REVIEW SPECIFICATIONS FOR INSTRUCTIONS NOT SHOWN ON DRAWINGS. INFORMATION COMMON TO SEVERAL DRAWINGS MAY BE NOTED ON ONLY ONE. CONTRACTOR IS RESPONSIBLE FOR ENTIRE SET OF DOCUMENTS.
- COORDINATE WITH MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL ITEMS NOT SHOWN TO BE PROVIDED AT THE CEILING PLANE AND IN THE SCOPE OF WORK. COORDINATE WITH DRAWINGS AND SPECIFICATIONS FOR PHYSICAL SIZE OF ALL CEILING GRILLS, DIFFUSERS, FIXTURES, LIGHTS AND ALL RELATED ITEMS.
- DIMENSIONS ARE TO STRUCTURAL GRIDLINE OR FACE OF STUD UNLESS NOTED OTHERWISE.
- CENTER ALL CEILING GRID, LIGHT FIXTURES AND SPRINKLER HEADS IN THEIR RESPECTIVE CEILING PANEL. IF NOT DIMENSIONED LOCATE EVENLY AND CENTER IN SPACES. IF UNCLEAR, CONSULT ARCHITECT FOR LOCATION.
- INSTALL ALL SUSPENSION SYSTEMS FOR ACOUSTICAL PANEL CEILING PER THE SPECIFICATION AND C.I.S.C.A. RECOMMENDATIONS FOR DIRECT-HUNG SEISMIC DESIGN CATEGORY C. REFER TO IBC SECTION 803.9.1.1: SUSPENDED ACOUSTICAL CEILINGs. COMPLY WITH ASTM C635 AND C136.
- INSTALL ALL SUSPENSION SYSTEMS FOR GYPSUM BOARD CEILINGs PER THE SPECIFICATIONS AND ASTM C754.
- REFER TO ELECTRICAL & MECHANICAL DRAWINGS FOR QUANTITY AND TYPE OF LIGHTS, SPEAKERS, DETECTORS, POWER OUTLETS, DIFFUSERS, RETURN AIR GRILLES, EXHAUST GRILLES, ETC. SCRIBE CEILING MATERIALS CAREFULLY FOR A TIGHT FIT.
- REFER TO MECHANICAL DRAWINGS FOR QUANTITY AND TYPE OF. SCRIBE CEILING MATERIALS CAREFULLY FOR A TIGHT FIT.
- COORDINATE ALL ACCESS PANEL LOCATIONS WITH STRUCTURAL FRAMING AND CEILING SYSTEMS TO ACCOMMODATE SIZES INDICATED.
- ALL GYPSUM BOARD CEILINGs TO BE TEXTURED AND PAINTED UNLESS NOTED OTHERWISE.
- ALL EXPOSED METAL DECK, CONDUIT, DUCTWORK, JOISTS, AND MISCELLANEOUS ITEMS AND TO BE PAINTED, UNLESS OTHERWISE NOTED.
- REFER TO ROOM FINISH SCHEDULE FOR CEILING HEIGHTS AND MATERIAL LOCATIONS.
- PROVIDE GYPSUM WALL BOARD AND METAL STUD BULKHEADS WHERE CEILINGs OF DIFFERENT HEIGHTS ABUT. DO NOT BUILD BULKHEADS OF ACOUSTICAL CEILING MATERIALS UNLESS SPECIFICALLY DETAILED.

RCP SYMBOL LEGEND

	2X4 2ND LOOK ACOUSTICAL TILE CEILING & GRID
	GYPSUM CEILING - TEXTURED & PAINTED
	FACTORY FINISHED PAINTED METAL SOFFIT, MATCH EXISTING
	LIGHT FIXTURE 2X4, RE: ELECTRICAL DRAWINGS
	LIGHT FIXTURE 2 X 2, RE: ELECTRICAL DRAWINGS
	RECESSED LIGHT, RE: ELECTRICAL DRAWINGS
	SMOKE DETECTOR, RE: ELECTRICAL DRAWINGS
	SPEAKER, RE: ELECTRICAL DRAWINGS
	EXIT LIGHT, RE: ELECTRICAL DRAWINGS
	HVAC/DIFFUSER, RE: MECHANICAL DRAWINGS
	HVAC RETURN, RE: MECHANICAL DRAWINGS

ARCHITECT:

COLE ARCHITECTS

COLE ARCHITECTS | 802 W. BANNOCK SUIT 208
Boise, ID 83702 | (208) 345-1800

STAMP:

LICENSED ARCHITECT
AR-1726

STANLEY A. COLE
STATE OF IDAHO

CONSULTANT:

PROJECT INFORMATION:

PROJECT NAME:
**ELKHORN FIRE STATION
REMODEL - SLEEPING
QUARTERS**

CITY OF SUN VALLEY

100 ARROWLEAF RD., SUN VALLEY, ID 83353

REVISIONS:

MARK	DATE	DESCRIPTION
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PROJECT PHASE: **CD**

PROJECT NUMBER: 15-92

PROJECT MANAGER: R.TeBeau

PROJECT ARCHITECT: R.Stewart

DESIGN: R.TeBeau

DRAWN BY: R.Stewart

SHEET NAME:
**1ST FLOOR
REFLECTED CEILING
PLAN**

SHEET NUMBER:
A800

STAMP:

LICENSED ARCHITECT
AR-1726
Stanley A. Cole
STANLEY A. COLE
STATE OF IDAHO

CONSULTANT:

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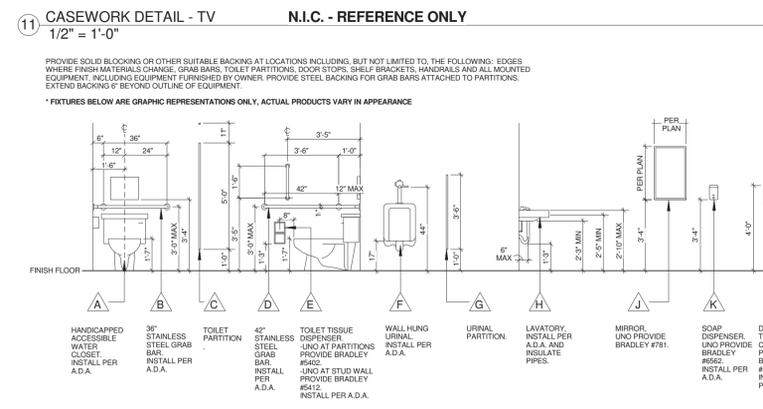
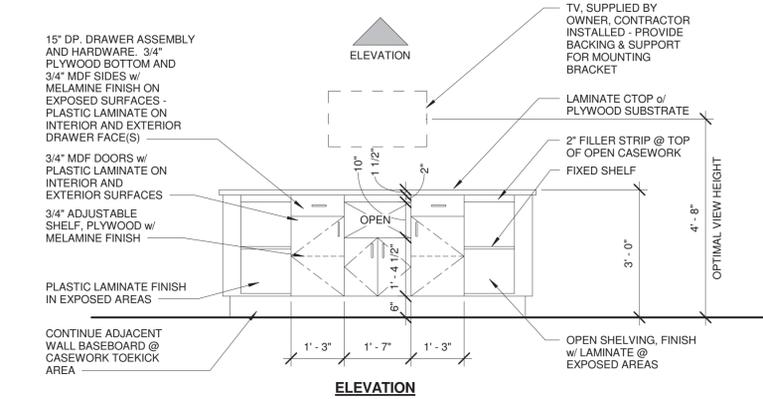
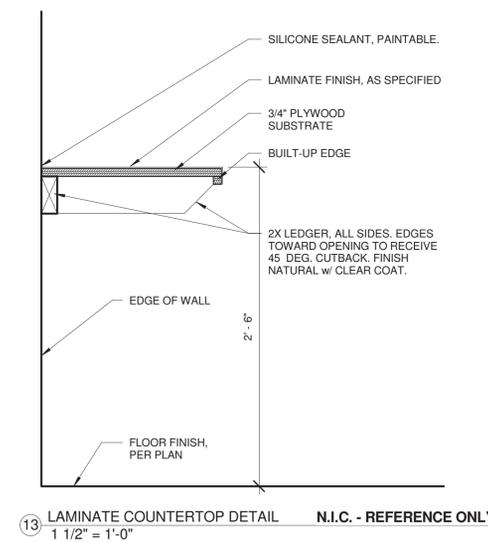
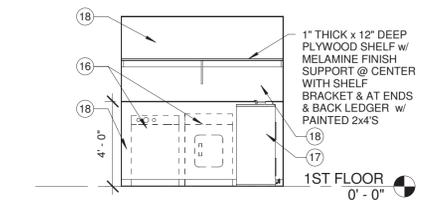
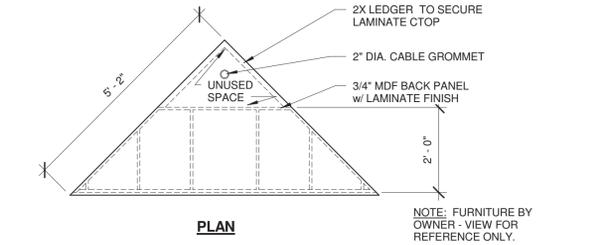
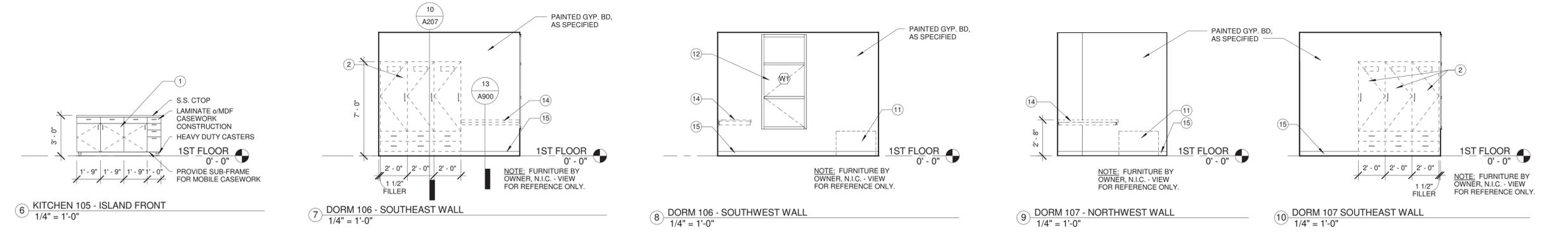
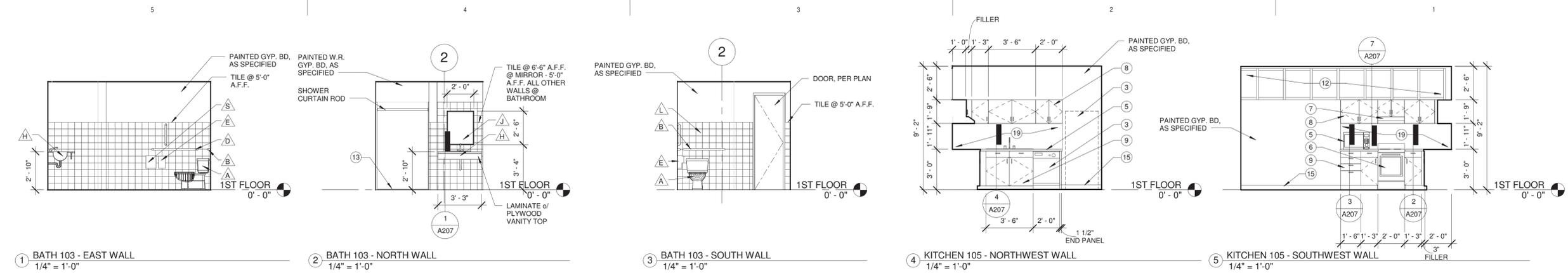
PROJECT PHASE	CD
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DESIGN	R.TeBeau
DRAWN BY	R.Stewart

SHEET NAME:

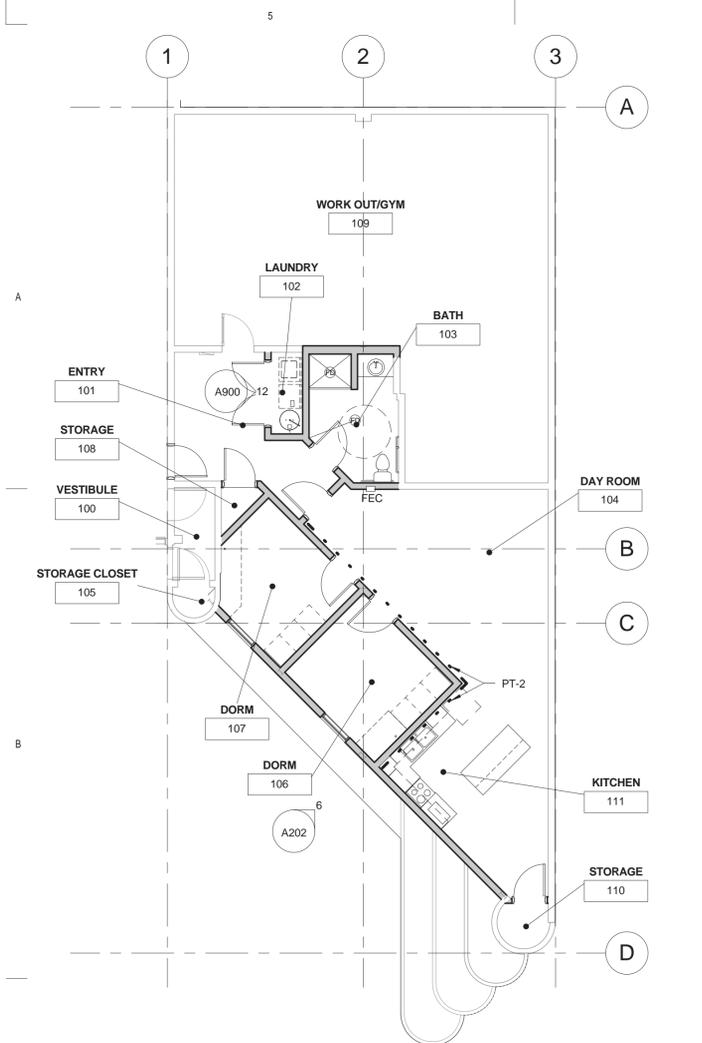
**INTERIOR
ELEVATIONS AND
DETAILS**

SHEET NUMBER:

A900



- KEY NOTES: #**
- KITCHEN ISLAND (BASE CABINET ON CASTERS w/ SUBFRAME TO SUPPORT)
 - CLOTHING CASEWORK, N.I.C.
 - REFRIGERATOR. OWNER FURNISHED, CONTRACTOR INSTALLED. PROVIDE WATER CONNECTION FOR ICE/ WATER.
 - DISHWASHER. OWNER FURNISHED, CONTRACTOR INSTALLED.
 - COUNTERTOP MICROWAVE. OWNER FURNISHED, CONTRACTOR INSTALLED.
 - ELECTRIC RANGE/STOVE. OWNER FURNISHED, CONTRACTOR INSTALLED.
 - UNDER CABINET VENT HOOD
 - WALL CABINET
 - BASE CABINET
 - S.S. COUNTERTOP w/ S.S. DBL. BASIN SINK, RE: MECHANICAL DWGS
 - FURNITURE, N.I.C.
 - STOREFRONT WINDOW SYSTEM. RE: WINDOW SCHEDULE.
 - FIBERGLASS SHOWER INSERT w/ LOW THRESHOLD, 36"X36"X78" (ADA)
 - LAMINATE C.T.O.P w/ WALL LEDGER SUPPORT & 2" DIA. CABLE GROMMET ACCESS.
 - WALL BASE, PER FINISH SCHEDULE.
 - WASHER/DRYER PROVIDED BY OWNER, INSTALLED BY CONTRACTOR. RE: MECHANICAL & ELECTRICAL.
 - WATER HEATER, AS SPECIFIED. RE: MECHANICAL DWGS.
 - SMOOTH FRP WALL COVERING OVER GYPSUM @ LAUNDRY ROOM - ALL WALLS.
 - S.S. BACKSPLASH



1ST FLOOR FINISH PLAN
1/8" = 1'-0"



ROOM FINISH SCHEDULE														
NO.	NAME	FLOOR		WALLS								CEILING		NOTES
		FINISH	BASE	NORTH		EAST		SOUTH		WEST		MATERIAL	FINISH	
				MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH			
100	VESTIBULE	CONC-1	RB-1	GYPBD	PT-1	GYPBD	PT-1	GYPBD	PT-1	GYPBD	PT-1			
101	ENTRY	CONC-1	RB-1	GYPBD	PT-1	GYPBD	PT-1	GYPBD	PT-1	GYPBD	PT-1			
102	LAUNDRY	CONC-1	RB-1	GYPBD/FRP	PT-1	GYPBD/FRP	PT-1	GYPBD/FRP	PT-1	GYPBD/FRP	PT-1	GYPBD	PT-1	7
103	BATH	CONC-1	--	GYPBD	T-1, EPOXY ABOVE	GYPBD	PT-1	3, 6						
104	DAY ROOM	CONC-1	RB-1	GYPBD	PT-1	GYPBD	PT-1	GYPBD	PT-2	GYPBD	PT-1	ACT		4
105	STORAGE CLOSET	CONC-1	RB-1	GYPBD	PT-1	GYPBD	PT-1	GYPBD	PT-1	GYPBD	PT-1	ACT		2, 4, 8
106	DORM	CONC-1	RB-1	GYPBD	PT-1	GYPBD	PT-1	GYPBD	PT-1	GYPBD	PT-1	ACT		2, 4, 8
107	DORM	CONC-1	RB-1	GYPBD	PT-1	GYPBD	PT-1	GYPBD	PT-1	GYPBD	PT-1	ACT		2, 4, 8
108	STORAGE	CONC-1	RB-1	GYPBD	PT-1	GYPBD	PT-1	GYPBD	PT-1	GYPBD	PT-1			
109	WORK OUT/GYM	-	RB-1	-	-	-	-	GYPBD	PT-1	-	-			
110	STORAGE	CONC-1	RB-1	GYPBD	PT-1	GYPBD	PT-1	GYPBD	PT-1	GYPBD	PT-1	ACT		
111	KITCHEN	CONC-1	RB-1	GYPBD	PT-2	GYPBD	PT-1	GYPBD	PT-1	GYPBD	PT-1	ACT		1, 4, 7

FINISH SPECIFICATIONS:

FINISH ABBREVIATIONS

RB-1: (GYP BD WALLS ONLY)
MANUFACTURER: ARMSTRONG
COLOR: 63 BURNT UMBER B
SIZE: 6"

PT-1
MANUFACTURER: SHERWIN WILLIAMS
COLOR: SW 7070 SITE WHITE
FINISH: LOW LUSTER

PT-2
MANUFACTURER: SHERWIN WILLIAMS
COLOR: SW 6220 INTERESTING AQUA
FINISH: LOW LUSTER

LAM-1
MANUFACTURER: WILSONART
COLOR: 7939-38 NEW AGE OAK

CTOP-1 - KITCHEN
STAINLESS STEEL
ALTERNATE: LAMINATE
MANUFACTURER: WILSONART
COLOR: 4830K-18 SATIN STAINLESS

CTOP-2 - BATHROOM
SOLID SURFACE
ALTERNATE: LAMINATE
MANUFACTURER: WILSONART
COLOR: 4830K-18 SATIN STAINLESS

CONC-1
POLISHED CONCRETE (POLISH & PENETRATING SEALER)
ALTERNATE: PATCH & SEAL

T-1
MANUFACTURER: ROCA TILE
NAME: U081-410 COLOR COLLECTION CERAMIC WALL TILE
COLOR NAME: WHITE ICE GLOSS
SIZE: 4" X 10"
INSTALLATION: BRICK PATTERN
GROUT: 1/8" JOINT; TEC, POWER GROUT, COLOR MAPEI / PEARL GRAY #19

WINDOW COVERING
RE: SPECIFICATIONS

SILL
SOLID SURFACE - PER ARCHITECT FROM FULL MANUFACTURER'S STANDARD PRODUCTS

MATERIAL FINISH ALTERNATES:

A. ALTERNATE 1 - DEDUCT ALTERNATE: LAMINATE WALL FINISH IN BATHROOM.

1. BASE BID: PROVIDE CERAMIC TILE WALL FINISH IN BATHROOM AS INDICATED ON ID100 1ST FLOOR FINISH PLAN AND AS SPECIFIED IN SECTION 09 30 13 "TILING."
2. ALTERNATE BID: PROVIDE PLASTIC LAMINATE IN PLACE OF CERAMIC TILE.

B. ALTERNATE 2 - DEDUCT ALTERNATE: COUNTERTOP FINISH IN BATHROOM 103

1. BASE BID: PROVIDE SOLID SURFACE COUNTERTOP FINISH IN BATHROOM 103 AS SPECIFIED IN SECTION 06 40 23 "INTERIOR ARCHITECTURAL WOODWORK."
2. ALTERNATE BID: PROVIDE PLASTIC LAMINATE COUNTERTOP FINISH IN BATHROOM 103 IN LIEU OF SOLID SURFACE MATERIAL.

C. ALTERNATE 3 - DEDUCT ALTERNATE: COUNTERTOP AND BACKSPLASH FINISH IN KITCHEN 111.

1. BASE BID: STAINLESS STEEL COUNTERTOPS AND BACKSPLASH IN KITCHEN 111 AS SPECIFIED IN SECTION 06 40 23 "INTERIOR ARCHITECTURAL WOODWORK."
2. ALTERNATE BID: PROVIDE PLASTIC LAMINATE COUNTERTOP AND BACKSPLASH AND NOSING IN LIEU OF STAINLESS STEEL.

D. ALTERNATE 4 - DEDUCT ALTERNATE: INTERIOR CONCRETE SLAB FINISH

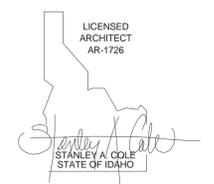
1. BASE BID: MACHINE POLISH EXISTING AND NEW INTERIOR CONCRETE SLAB AS SPECIFIED IN SECTION 03 35 19 "SPECIAL CONCRETE FINISHES."
2. ALTERNATE BID: AT EXISTING AND NEW AREAS OF CONCRETE FLOORING PROVIDE NECESSARY PATCHING, REPAIR, PROVIDE CONCRETE SEALER AS FINISH.

GENERAL NOTES FINISH PLAN:

- A. REFER TO ARCHITECTURAL FLOOR, ELEVATION AND FINISH PLANS.
- B. ALL TILE TO BE INSTALLED PER RECOMMENDATIONS ESTABLISHED BY THE TILE COUNCIL OF NORTH AMERICA.
- C. UNLESS NOTED OTHERWISE, CASEWORK TO BE CONSTRUCTED AS FOLLOWS: VERTICAL ELEMENTS TO BE 3/4" MDF w/ MELAMINE FINISH (INTERIOR) & PLASTIC LAMINATE FINISH (EXTERIOR). DOORS/DRAWERS (ALL SURFACES) TO BE 3/4" MDF w/ PLASTIC LAMINATE ALL SIDES. ALL HORIZONTAL ELEMENTS TO BE 3/4" PLYWOOD CONSTRUCTION w/ MELAMINE FINISH (INTERIORS). S.S. AT COUNTERTOPS, INCLUDING BACKSPLASHES, U.N.O. PROVIDE MIN. 3MM EDGE BANDING. REFER TO ELEVATIONS FOR MILLWORK FINISH LOCATIONS.
- D. NOT USED.
- E. PROVIDE CONTROL JOINTS AT TRANSITION BETWEEN WALL AND GYP BOARD SOFFIT.
- F. PAINT THE FOLLOWING TO MATCH WALL ON WHICH THEY OCCUR: MISCELLANEOUS METALS, FIRE EXTINGUISHER CABINETS, CABINET UNIT HEATERS, ELECTRICAL PANELS, ACCESS PANELS LOCATED IN GYP BOARD CEILINGS.
- G. PROVIDE A THIN, CLEAR, SILICONE BEAD (1/8") AT PERIMETER OF ALL DOOR FRAMES AND BORROWED GLASS LITES AFTER INSTALLATION OF SCHEDULED WALL COVERINGS. DOOR FRAMES ON PAINTED WALLS SHOULD RECEIVE THIN, PAINTABLE SILICONE BEAD (1/8") AT PERIMETER PRIOR TO PAINTING, ONLY WHERE THE FRAME DOES NOT MEET THE WALL.
- H. AT NEW WALLS AND AT AREAS OF NEW CONSTRUCTION, PATCH PLASTER AND/OR GYP BOARD WALLS TO MATCH EXISTING.
- I. PATCH INTERIOR FINISH MATERIALS AND COLORS (I.E. PAINT, WALL BASE, FLOOR FINISH) TO MATCH EXISTING.
- J. PROVIDE OWNER'S STOCK IN THE FLOWING QUANTITIES:
* CERAMIC TILE/PORCELAIN TILE: 1/2 CARTON OF EACH TYPE AND COLOR OF TILE SPECIFIED
* ACOUSTICAL CEILING TILE: 100 SQUARE FEET OF EACH TYPE OF ACOUSTICAL UNIT SPECIFIED, PLUS 20 LINEAL FEET OF EXPOSED SUSPENSION SYSTEM COMPONENTS.
* PAINT: 1 GALLON OF EACH COLOR.
- K. PROVIDE SHOWER CURTAIN AT SHOWERS.
- L. WINDOW SILLS TO RECEIVE SOLID SURFACE MATERIAL.
- M. AT ROOMS WITH NEW OR EXISTING EXPOSED CEILING, PAINT WALLS TO UNDERSIDE OF STRUCTURE ABOVE. PAINT EXPOSED DECK, STRUCTURAL MEMBERS, DUCTWORK, CONDUIT AND RELATED ITEMS.
- N. ALL INTERIOR FINISHES MUST BE INSTALLED BY A CERTIFIED INSTALLER/SUBCONTRACTOR PER MANUFACTURER'S INSTRUCTIONS. USE MANUFACTURER'S APPROVED ADHESIVES AND SEAM SEALERS.
- O. ALL FLOORING TRANSITIONS OCCUR UNDER THE CENTER OF THE DOOR UNLESS OTHERWISE NOTED. PROVIDE MANUFACTURER RECOMMENDED FLOORING TRANSITIONS AT DISSIMILAR FLOORING MATERIALS.

COLE ARCHITECTS | 802 W. BANNOCK SUIT 208
Boise, ID 83702 | (208) 345-1800

STAMP:



CONSULTANT:

PROJECT INFORMATION:

PROJECT NAME:
**ELKHORN FIRE STATION
REMODEL - SLEEPING
QUARTERS**

CITY OF SUN VALLEY

100 ARROWLEAF RD., SUN VALLEY, ID 83353

REVISIONS:

MARK	DATE	DESCRIPTION

PROJECT PHASE	CD
PROJECT NUMBER	15-92
PROJECT MANAGER	R.TeBeau
PROJECT ARCHITECT	R.Stewart
DESIGN	R.TeBeau
DRAWN BY	R.Stewart

SHEET NAME:

**1ST FLOOR FINISH
PLAN**

SHEET NUMBER:

ID100

MECHANICAL ABBREVIATIONS

A/C or AC	AIR CONDITIONING	IFGC	INTERNATIONAL FUEL GAS CODE
AFF	ABOVE FINISHED FLOOR	IMC	INTERNATIONAL MECHANICAL CODE
AHU	AIR HANDLING UNIT	IPC	INTERNATIONAL PLUMBING CODE
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATION, AND AIR CONDITIONING ENGINEERS	KW	KILOWATT
AV	ACID VENT LINE	KWH	KILOWATT HOUR
AW	ACID WASTE LINE	L	LIQUID REFRIGERANT LINE
BTU	BRITISH THERMAL UNITS	LAT	LAUNDRY
BTUH	BTUS PER HOUR	LED	LEADERSHIP IN ENERGY & ENVIRONMENTAL DESIGN
CA	COMBUSTION AIR	LWT	LEAVING WATER TEMPERATURE
CD	CONDENSATE DRAIN LINE	M	MOTORIZED DAMPER
CDR	CONDENSER WATER RETURN	MAX	MAXIMUM
CDS	CONDENSER WATER SUPPLY	MCA	MINIMUM CIRCUIT AMPS
CFM	AIR FLOW RATE (CUBIC FEET PER MINUTE)	MIN	MINIMUM
CLG	CEILING	MOPP	MAXIMUM OVERCURRENT PROTECTION
CW	DOMESTIC COLD WATER	MPG	MEDIUM PRESSURE NATURAL GAS
CWR	CHILLED WATER RETURN	NC	NOISE CRITERIA
CWS	CHILLED WATER SUPPLY	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
DEG or °	DEGREE	NTS	NOT TO SCALE
DIA or ∅	DIAMETER	OD	OVERFLOW DRAIN LINE
DB	DRY BULB	OSA	OUTSIDE AIR
DWR	DOMESTIC HOT WATER RETURN	PD	PRESSURE DROP
EA	EXHAUST AIR	PH or ∅	PRESSURE REDUCING VALVE
EAT	ENTERING AIR TEMPERATURE	PRV	PRESSURE REDUCING VALVE
EEER	ENERGY EFFICIENCY RATIO	RA	RETURN AIR
ESP	EXTERNAL STATIC PRESSURE	RD	ROOF DRAIN LINE
EWT	ENTERING WATER TEMPERATURE	RPM	REVOLUTIONS PER MINUTE
F	FIRE SPRINKLER LINE	RTU	ROOFTOP UNIT
FCO	FLOOR CLEANOUT	S	SUCTION REFRIGERANT LINE
FD	FIRE DAMPER	SA	SUPPLY AIR
FLA	FULL LOAD AMPS	SD	STORM DRAIN LINE
FLR	FLOOR	SEER	SEASONAL ENERGY EFFICIENCY RATIO
FRM	FEET PER MINUTE	SFD	COMBINATION SMOKE/FIRE DAMPER
FS	FLOW SWITCH	SP	STATIC PRESSURE
FT	FEET	SYM	SYMBOL
G	LOW PRESSURE NATURAL GAS	T & P	TEMPERATURE AND PRESSURE
GA	GAUGE	TEMP	TEMPERATURE
GCO	GRADE CLEANOUT	TYP	TYPICAL
GPM	GALLONS PER MINUTE	UPC	UNIFORM PLUMBING CODE
GWR	GEOTHERMAL WATER RETURN	U	URINAL
GWS	GEOTHERMAL WATER SUPPLY	VTR	VENT THROUGH ROOF
HC	HEATING COIL	V	VOLTS
HP	HORSE POWER	WB	WET-BULB
HVAC	HEATING, VENTILATING, AIR CONDITIONING	WC	WATER CLOSET
HWC	DOMESTIC HOT WATER	WCO	WALL CLEANOUT
HWR	HEATING WATER RETURN	WH	WATER HEATER
HWS	HEATING WATER SUPPLY		
IBC	INTERNATIONAL BUILDING CODE		
IECC	INTERNATIONAL ENERGY CONSERVATION CODE		
IFC	INTERNATIONAL FIRE CODE		

NOTE: THIS IS A STANDARD LIST OF COMMONLY USED MECHANICAL ABBREVIATIONS. SOME OF THE ABBREVIATIONS SHOWN ABOVE MAY NOT BE USED IN THIS DRAWING PACKAGE.

MECHANICAL GENERAL NOTES

- ALL MECHANICAL EQUIPMENT AND SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE INTERNATIONAL MECHANICAL CODE (IMC) LATEST EDITION, AND ALL LOCAL & STATE CODES.
- ALL PLUMBING EQUIPMENT AND SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE IDAHO STATE PLUMBING CODE, LATEST EDITION, AND ALL LOCAL & STATE CODES.
- ALL MECHANICAL AND PLUMBING EQUIPMENT SHALL BE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS.
- MECHANICAL CONTRACTORS SHALL RECEIVE PRIOR APPROVAL FROM THE STRUCTURAL ENGINEER BEFORE MAKING CUTS THROUGH ANY STRUCTURAL MEMBER.
- MECHANICAL CONTRACTORS SHALL COORDINATE INSTALLATION WITH CONSTRUCTION SUPERVISOR AND WITH ALL OTHER TRADES TO AVOID CONFLICTS.
- THE MECHANICAL CONTRACTORS SHALL VERIFY MOTOR VOLTAGES WITH THE ELECTRICAL DRAWINGS BEFORE ORDERING MOTORIZED EQUIPMENT AND CONTROLS.
- SEE SHEET M400 FOR SCHEDULED CAPACITIES OF ALL MECHANICAL EQUIPMENT AND MATERIALS SPECIFIED.
- DOMESTIC WATER SERVICE IS PROVIDED WITH A DOUBLE CHECK BACKFLOW PREVENTER.
- ALL MECHANICAL EQUIPMENT TO BE PROPOSED MUST BE ON THE APPROVED LIST PRIOR TO SUBMITTALS. ALL APPROVED MANUFACTURERS MUST BE CAPABLE OF MEETING THE REQUIREMENTS OF THE SPECIFIED EQUIPMENT.
- RUNOUT AND HOOKUP SIZES TO INDIVIDUAL PLUMBING FIXTURE CAN BE FOUND ON THE PLUMBING FIXTURE SCHEDULES, SHEET P400.
- PROVIDE REMOTE CEILING ACCESS BALANCE DAMPERS WITH CONCEALED CHROME PLATE COVERS FOR BALANCE DAMPERS LOCATED ABOVE HARD CEILINGS.
- INSULATED FLEXIBLE DUCTWORK MAY BE USED FOR RUNOUTS TO GRILLES AND DIFFUSERS, IN LENGTHS OF 6'-0" OR LESS.
- MAINTAIN MINIMUM OF 10'-0" DISTANCE BETWEEN ALL FRESH AIR INTAKES AND EXHAUST OR GAS FLUE DISCHARGES.
- THE PLUMBING CONTRACTOR IS RESPONSIBLE FOR ALL BACKFLOW DEVICES TO BE INSPECTED BY A CERTIFIED BACKFLOW TECHNICIAN BEFORE THE USE OF THE BUILDING POTABLE WATER SYSTEM.
- LOCATE ACCESS HATCHES SO AS TO PROVIDE OPTIMUM SERVICEABILITY TO EQUIPMENT AND/OR VALVING. SEE ARCHITECTURAL SPECIFICATION FOR TYPE AND COLOR. COORDINATE LOCATION WITH STRUCTURAL & LIGHTING.
- WHenever there is a discrepancy between the runout duct size shown on the plans and that shown in the schedule, always use the larger of the two duct sizes.
- THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR VERIFICATION OF EXISTING JOB CONDITIONS PRIOR TO BID. NO ADDITIONAL COST SHALL BE AWARDED TO THE SUCCESSFUL CONTRACTOR (OR THEIR SUBCONTRACTORS) AFTER BIDS HAVE BEEN SUBMITTED AND CONTRACTS AWARDED FOR FAILURE TO VERIFY EXISTING FIELD CONDITIONS. DISCREPANCIES BETWEEN ACTUAL FIELD CONDITIONS AND CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE ENGINEERS ATTENTION FOR ALTERNATIVE METHODS OF INSTALLATION PRIOR TO THE BIDDING OF THIS PROJECT.
- UNLESS OTHERWISE NOTED ALL EXISTING MECHANICAL EQUIPMENT, PIPING, ETC. TO BE REMOVED SHALL BE DISPOSED OF BY THE CONTRACTOR UNDER THIS CONTRACT. THE OWNER SHALL RETAIN THE RIGHT TO KEEP ANY REMOVED ITEMS.
- ALL DOMESTIC COLD AND HOT WATER LINES IN THE AREA OF WORK WHICH ARE NO LONGER IN USE DUE TO THIS PROJECT SHALL BE REMOVED BACK TO THE MAINS AND CAPPED.
- HOLES IN EXISTING WALL OR FLOORS SHALL BE PATCHED TO MATCH EXISTING WHERE PIPING, DUCTWORK, ETC. WERE REMOVED OR ADDED DURING THIS PROJECT.
- DAMAGE TO THE EXISTING FACILITY DURING THE CONSTRUCTION SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO COST TO THE OWNER.

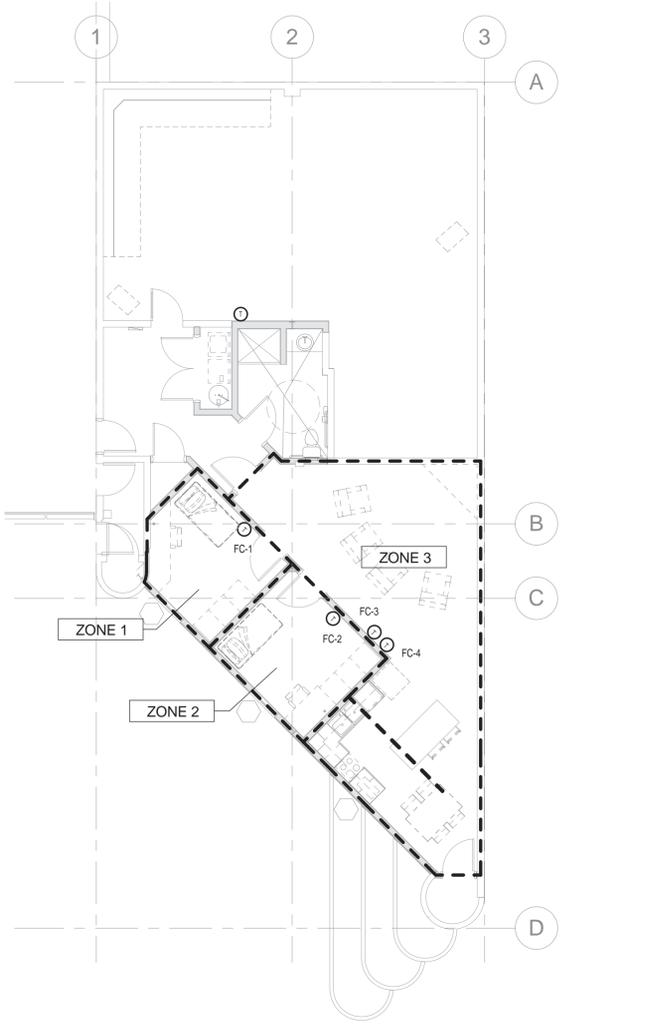
MECHANICAL AND PLUMBING DRAWINGS LEGEND

	FLEXIBLE DUCTWORK		BALL VALVE
	DUCTWORK		CHECK VALVE
	DUCTWORK BREAK		FLOOR CLEANOUT
	DUCTWORK OR PIPING RISE		WALL CLEANOUT
	CONCENTRIC SQUARE TO ROUND TRANSITION		GRADE CLEANOUT
	MANUAL VOLUME DAMPER		FLOOR DRAIN
	SPIN-IN FITTING W/ AIR EXTRACTOR AND HAND DAMPER		FLOOR SINK
	HIGH EFFICIENCY FITTING W/ HAND DAMPER		GAS PRESSURE REGULATOR W/ GAS COCK
	THERMOSTAT		PRESSURE RELIEF VALVE
	EQUIPMENT CALLOUT		VENT-THROUGH-ROOF
	TURNING VANES		VENT
	INTAKE OR EXHAUST		SOIL, WASTE, OR SANITARY SEWER
	DIRECTION OF AIRFLOW		CONDENSATE DRAIN LINE
	SUPPLY DIFFUSER		DOMESTIC COLD WATER (CW)
	RETURN GRILLE		DOMESTIC HOT WATER (HW)
	EXHAUST GRILLE		SLOPE PIPE IN DIRECTION OF ARROW
	FLOOR GRILLE		CAP
	CEILING EXHAUST FAN		EXISTING
	TEMPERATURE GAUGE		FUTURE
	PRESSURE GAUGE (LIQUID FILLED W/ ISOLATION VALVE)		NEW
	TEMPERATURE SENSOR (DUCT OR PIPING)		REDUCED PRESSURE BACKFLOW PREVENTER
	FLOW DIRECTION		DOUBLE CHECK BACKFLOW PREVENTER
	DEMOLITION / EQUIPMENT TO BE REMOVED		UNION
	NEW TO EXISTING CONNECTION POINT		

NOTE: THIS IS A LIST OF COMMONLY USED MECHANICAL AND PLUMBING SYMBOLS. SOME TO THE SYMBOLS SHOWN ABOVE MAY NOT BE USED IN THIS DRAWING PACKAGE.

ENERGY CODE COMPLIANCE

- A. COMPLIANCE WITH THE LATEST ADOPTED EDITION OF THE INTERNATIONAL ENERGY CONSERVATION CODE IS REQUIRED FOR THIS PROJECT. THESE NOTES COVER MANDATORY REQUIREMENTS OF THE CODE. ADDITIONAL REQUIREMENTS ARE NOTED ON THE DRAWINGS AND IN THE SPECIFICATIONS.
- B. MINIMUM REQUIREMENTS FOR SUPPLY AND RETURN DUCTWORK INSULATION:
- R-5: DUCTS LOCATED IN UNCONDITIONED SPACES (SPACE NEITHER HEATED NOR COOLED SUCH AS ABOVE CEILING SPACES, WALL SPACES, DUCT CHASES, SOFFITS, ATTICS, CRAWL SPACES, UNHEATED BASEMENTS, AND UNHEATED GARAGES).
 - R-8: DUCTS LOCATED OUTSIDE OF THE BUILDING'S INSULATION ENVELOPE (SUCH AS ABOVE THE ATTIC INSULATION).
- TYPICAL INSULATION THICKNESS REQUIRED TO MEET THESE REQUIREMENTS:
- FIBERGLASS DUCT WRAP: R-5 (2'), R-8 (3').
 - FIBERGLASS DUCT LINER: R-5 (1 1/2'), R-8 (2').
- C. CONTRACTOR SHALL VERIFY WITH THE MANUFACTURER, THE R-VALUES OF THE ACTUAL INSULATION USED. R-VALUES SHALL BE INSTALLED VALUES.
- D. WHERE DUCTS USED FOR COOLING ARE EXTERNALLY INSULATED, THE INSULATION SHALL BE COVERED WITH A VAPOR RETARDER HAVING A MAXIMUM PERMEANCE OF 0.05 PERM OR ALUMINUM FOIL HAVING A MINIMUM THICKNESS OF 2 MILS. INSULATION HAVING A PERMEANCE OF 0.05 PERMS OR LESS SHALL NOT BE REQUIRED TO BE COVERED. ALL JOINTS AND SEAMS SHALL BE SEALED TO MAINTAIN THE CONTINUITY OF THE VAPOR RETARDER.
- E. ALL DUCT JOINTS, SEAMS, AND CONNECTIONS SHALL BE FASTENED AND SEALED WITH WELDS, GASKETS, ADHESIVES, MASTIC-PLUS-EMBEDDED-FABRIC SYSTEMS, OR TAPES. TAPES AND MASTICS SHALL BE LISTED AND LABELED PER UL181A OR UL181B. DUCT TAPE IS NOT PERMITTED AS A SEALANT ON ANY METAL DUCTS. DUCT CONNECTIONS TO FLANGES OR EQUIPMENT SHALL BE SEALED AND MECHANICALLY FASTENED.
- F. MINIMUM REQUIREMENTS (THICKNESS) FOR PIPING INSULATION SHALL BE AS FOLLOWS:
- FLUID NOMINAL PIPE DIAMETER
- | | |
|----------------|---------------|
| 1/2" TO 1 1/2" | 2" AND ABOVE |
| 1. REFRIGERANT | 1 1/2" 1 1/2" |
- THE ABOVE INSULATION IS BASED ON HAVING A CONDUCTIVITY NOT EXCEEDING 0.27 BTU-INCH-HOUR-FT2-F.
- G. DOMESTIC HOT WATER PIPING SYSTEMS SHALL BE INSULATED WITH 1" INSULATION HAVING A CONDUCTIVITY NOT EXCEEDING 0.27 BTU-INCH-HOUR-FT2-F.
- H. DOMESTIC WATER HEATERS WHICH ARE NOT PROVIDED WITH INTEGRAL HEAT TRAPS AND SERVE NONCIRCULATING SYSTEMS SHALL BE PROVIDED WITH HEAT TRAPS ON THE SUPPLY AND DISCHARGE PIPING AT THE WATER HEATER.
- I. AN OPERATING AND MAINTENANCE MANUAL SHALL BE PROVIDED PRIOR TO ISSUANCE OF A CERTIFICATE OF OCCUPANCY. THE O&M MANUAL SHALL CONTAIN THE FOLLOWING INFORMATION AS A MINIMUM:
- EQUIPMENT CAPACITY (INPUT & OUTPUT).
 - EQUIPMENT OPERATING AND MAINTENANCE INSTRUCTIONS.
 - CONTROL SYSTEM MAINTENANCE AND CALIBRATION INFORMATION, INCLUDING WIRING DIAGRAMS, SCHEMATICS, AND CONTROL SEQUENCES.
 - A COMPLETE WRITTEN NARRATIVE ON HOW EACH MECHANICAL SYSTEM IS INTENDED TO OPERATE.



MECHANICAL ZONING PLAN

1/8" = 1'-0"



MUSGROVE ENGINEERING, PA

234 S. WHISPERWOOD WAY BOISE, IDAHO 83709

Zone Summary									
PROJECT:	Design Conditions			Winter		Summer		85	
	COMPUTED BY:	DATE:	16-Feb-16	Sensible	Total	CHK BY:	LAR		
			Load	Load					Unit Selection
Zone Reference	FLOOR SQ. FT.	BTUH	kw	BTUH	BTUH	NOMINAL TON (12000-BTU/TON)	SQ. FT PER NOMINAL TON	NUMBER OF PEOPLE	OSA TONS
1. ZONE #1 - Dorm 107	117	4,978	1	3,728	4,009	0.3	350.3	1	15
2. ZONE #2 - Dorm 108	128	4,803	1	3,614	3,895	0.3	388.2	1	16
3. ZONE #3 - Dayroom 104 / Kitchen 105	520	34,557	10	17,140	18,262	1.5	341.7	4	64
Total Loads =	763	44,335	13	24,482	26,165	2.2	350	6	95

Energy Compliance Calculations (Not Equipment Schedule)
Equipment is selected based on next available size



COLE ARCHITECTS | 802 W. BANNOCK SUIT 208
Boise, ID 83702 | (208) 345-1800

STAMP:



CONSULTANT:



PROJECT INFORMATION:

PROJECT NAME:
**ELKHORN FIRE STATION
REMODEL - SLEEPING
QUARTERS**

CITY OF SUN VALLEY
100 ARROW LEAF RD., SUN VALLEY, ID 83353

REVISIONS:

MARK	DATE	DESCRIPTION

PROJECT PHASE: **CD**

PROJECT NUMBER: 15-92

PROJECT MANAGER: R.TeBeau

PROJECT ARCHITECT: R.Stewart

DESIGN: R.TeBeau

DRAWN BY: LR

SHEET NAME:

MECHANICAL COVER SHEET

SHEET NUMBER:

M000

COMcheck Software Version 4.0.2.1
Mechanical Compliance Certificate

Project Information

Energy Code: 2012 IECC
 Project Title: ELKHORN FIRE STATION REMODEL
 Location: Sun Valley, Idaho
 Climate Zone: 6b
 Project Type: Alteration

Construction Site: 100 ARROW LEAF RD., SUN VALLEY, ID 83353
 Owner/Agent:
 Designer/Contractor: Musgrove Engineering P.A.
 234 S. Whisperwood Way
 Boise, ID 83709
 (208) 384-0585

Mechanical Systems List

Quantity **System Type & Description**

2 7.5 Ton Heat Pump (Single Zone):
 Split System Heat Pump
 Heating Mode: Capacity = 11 kBtu/h,
 Proposed Efficiency = 12.50 HSPFF, Required Efficiency = 7.70 HSPFF
 Cooling Mode: Capacity = 9 kBtu/h,
 Proposed Efficiency = 20.00 SEER, Required Efficiency = 13.00 SEER
 Fan System: None

2 1.5 Ton Heat Pump (Single Zone):
 Split System Heat Pump
 Heating Mode: Capacity = 18 kBtu/h,
 Proposed Efficiency = 12.50 HSPFF, Required Efficiency = 7.70 HSPFF
 Cooling Mode: Capacity = 15 kBtu/h,
 Proposed Efficiency = 20.00 SEER, Required Efficiency = 13.00 SEER
 Fan System: None

Mechanical Compliance Statement

Compliance Statement: The proposed mechanical alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2012 IECC requirements in COMcheck Version 4.0.2.1 and to comply with the mandatory requirements listed in the Inspection Checklist.

Laura Rasmussen - Mechanical Designer Signature Date: 02/18/16

Project Title: ELKHORN FIRE STATION REMODEL Report date: 02/18/16
 Data filename: \\10.0.0.12\projectFiles\2016\16027\CALCS\16027 MEP_Compliance.cck Page 1 of 8

Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C403.2.4.5 [ME5]3	VAV fan motors >= 7.5 hp to be driven by variable speed drive, have a vane axial fan with variable pitch blades, or have controls to limit fan motor demand.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C403.4.2 [ME6]3	VAV fan motors >= 7.5 hp to be driven by variable speed drive, have a vane axial fan with variable pitch blades, or have controls to limit fan motor demand.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C403.2.6 [ME3]7	Exhaust air energy recovery on systems meeting Table C403.2.6	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C403.2.1.1 [ME1]7	Unenclosed spaces that are heated use only radiant heat.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.

Additional Comments/Assumptions:

1 | High Impact (Tier 1) 2 | Medium Impact (Tier 2) 3 | Low Impact (Tier 3)

Project Title: ELKHORN FIRE STATION REMODEL Report date: 02/18/16
 Data filename: \\10.0.0.12\projectFiles\2016\16027\CALCS\16027 MEP_Compliance.cck Page 5 of 8

COMcheck Software Version 4.0.2.1
Inspection Checklist
 Energy Code: 2012 IECC

Requirements: 100.0% were addressed directly in the COMcheck software
 Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
C103.2 [PR2]1	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the mechanical systems and equipment and document where exceptions to the standard are claimed. Load calculations per acceptable engineering standards and handbooks.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: Sheet M001.

Additional Comments/Assumptions:

1 | High Impact (Tier 1) 2 | Medium Impact (Tier 2) 3 | Low Impact (Tier 3)

Project Title: ELKHORN FIRE STATION REMODEL Report date: 02/18/16
 Data filename: \\10.0.0.12\projectFiles\2016\16027\CALCS\16027 MEP_Compliance.cck Page 2 of 8

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C403.2.4 [FI4]7	Heating and cooling to each zone is controlled by a thermostat control. Minimum one humidity control device per installed humidification/dehumidification system.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: Sheet M200, Sheet M400
C403.2.4.1 [FI4]7	Heating and cooling to each zone is controlled by a thermostat control. Minimum one humidity control device per installed humidification/dehumidification system.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: Sheet M200, Sheet M400
C403.2.4.2 [FI3]8	Thermostatic controls have a 5 °F deadband.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Manual changeover thermostats. Location on plans/spec: Sheet M400
C403.2.4.2 [FI2]0	Temperature controls have setpoint overlap restrictions.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: Sheet M400
C403.2.4.3 [FI3]9	Each zone equipped with setback controls using automatic time clock or programmable control system.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: Sheet M400
C403.2.4.3 [FI4]0	Automatic Controls: Setback to 55°F (heat) and 65°F (cool); 7-day clock; 2-hour occupant override; 10-hour backup	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C403.2.4.3.1 [FI4]2	Heat pump controls prevent supplemental electric resistance heat from coming on when not needed.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C403.2.4.3.1 [FI4]2	Heat pump controls prevent supplemental electric resistance heat from coming on when not needed.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C408.2.5.1 [FI7]7	Furnished HVAC as-built drawings submitted within 90 days of system acceptance.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: Specification Section 230100
C408.2.5.3 [FI8]8	Furnished O&M manuals for HVAC systems within 90 days of system acceptance.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C408.2.5.3 [FI4]3	An air and/or hydronic system balancing report is provided for HVAC systems.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: Specification Section 230100
C408.2.3.3 [FI1]0	HVAC control systems have been tested to ensure proper operation, calibration and adjustment of controls	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: Specification Section 230100

1 | High Impact (Tier 1) 2 | Medium Impact (Tier 2) 3 | Low Impact (Tier 3)

Project Title: ELKHORN FIRE STATION REMODEL Report date: 02/18/16
 Data filename: \\10.0.0.12\projectFiles\2016\16027\CALCS\16027 MEP_Compliance.cck Page 6 of 8

Section # & Req.ID	Footing / Foundation Inspection	Complies?	Comments/Assumptions
C403.2.4.5 [FO9]1	Freeze protection and snow/ice melting system sensors for future connection to controls.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.

Additional Comments/Assumptions:

1 | High Impact (Tier 1) 2 | Medium Impact (Tier 2) 3 | Low Impact (Tier 3)

Project Title: ELKHORN FIRE STATION REMODEL Report date: 02/18/16
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Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C403.2.2 [FI2]7	HVAC systems and equipment capacity does not exceed calculated loads.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: Sheet M001
C408.2.1 [FI2]8	Commissioning plan developed by registered design professional or approved agency.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: Requirement does not apply
C408.2.4 [FI2]9	Preliminary commissioning report completed and certified by registered design professional or approved agency.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: Requirement does not apply
C408.2.5.4 [FI3]0	Final commissioning report due to building owner within 90 days of receipt of certificate of occupancy.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: Requirement does not apply
C408.2.3.1 [FI3]1	HVAC equipment has been tested to ensure proper operation.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: Specification Section 230100
C406 [FI3]4	Efficient HVAC performance, efficient lighting system, or on-site supply of renewable energy consistent with what is shown the approved plans.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 | High Impact (Tier 1) 2 | Medium Impact (Tier 2) 3 | Low Impact (Tier 3)

Project Title: ELKHORN FIRE STATION REMODEL Report date: 02/18/16
 Data filename: \\10.0.0.12\projectFiles\2016\16027\CALCS\16027 MEP_Compliance.cck Page 7 of 8

Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C403.2.3 [ME3]5	HVAC equipment efficiency verified.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Mechanical Systems list for values.
C403.2.5.1 [ME9]1	Demand control ventilation provided for spaces >500 sq ft. and >23 people/1000 sq ft. occupant density and served by systems with air side economizer, auto modulating outside air damper control, or design airflow >=3.000 cfm.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C403.2.7 [ME6]0	HVAC ducts and plenums insulated. Where ducts or plenums are installed in or under a slab, verification may need to occur during Foundation Inspection.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C403.2.8 [ME6]1	HVAC piping insulation thickness. Where piping is installed in or under a slab, verification may need to occur during Foundation Inspection.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: Sheet M000
C403.2.8 [ME6]1	HVAC piping insulation thickness. Where piping is installed in or under a slab, verification may need to occur during Foundation Inspection.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: Sheet M000
C403.2.8 [ME7]1	Piping Insulation exposed to weather is protected from damage (due to sun, moisture, wind, etc.).	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: Specification Section 230100
C403.2.8 [ME4]1	Thermally ineffective panel surfaces of sensible heating panels have insulation >= R-3.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C403.3.1.1 [NA]7	Total cooling capacity without economizers must be less than 'nvarMaxkBtuPerHr'.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: Sheet M400
C403.2.7 [ME1]0	Ducts and plenums sealed based on static pressure and location.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.2.7 [ME1]1	Ductwork operating >3 in. water column requires air leakage testing.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: Specification Section 230100
C403.2.7 [ME1]1	Ductwork operating >3 in. water column requires air leakage testing.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: Specification Section 230100
C408.2.2 [ME3]3	Air outlets and zone terminal devices have means for air balancing.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: Specification Section 230100

1 | High Impact (Tier 1) 2 | Medium Impact (Tier 2) 3 | Low Impact (Tier 3)

Project Title: ELKHORN FIRE STATION REMODEL Report date: 02/18/16
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Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C403.2.4.5 [ME5]3	VAV fan motors >= 7.5 hp to be driven by variable speed drive, have a vane axial fan with variable pitch blades, or have controls to limit fan motor demand.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C403.4.2 [ME6]3	VAV fan motors >= 7.5 hp to be driven by variable speed drive, have a vane axial fan with variable pitch blades, or have controls to limit fan motor demand.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C403.2.6 [ME3]7	Exhaust air energy recovery on systems meeting Table C403.2.6	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C403.2.1.1 [ME1]7	Unenclosed spaces that are heated use only radiant heat.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.

1 | High Impact (Tier 1) 2 | Medium Impact (Tier 2) 3 | Low Impact (Tier 3)

Project Title: ELKHORN FIRE STATION REMODEL Report date: 02/18/16
 Data filename: \\10.0.0.12\projectFiles\2016\16027\CALCS\16027 MEP_Compliance.cck Page 5 of 8

1 | High Impact (Tier 1) 2 | Medium Impact (Tier 2) 3 | Low Impact (Tier 3)

Project Title: ELKHORN FIRE STATION REMODEL Report date: 02/18/16
 Data filename: \\10.0.0.12\projectFiles\2016\16027\CALCS\16027 MEP_Compliance.cck Page 6 of 8

1 | High Impact (Tier 1) 2 | Medium Impact (Tier 2) 3 | Low Impact (Tier 3)

Project Title: ELKHORN FIRE STATION REMODEL Report date: 02/18/16
 Data filename: \\10.0.0.12\projectFiles\2016\16027\CALCS\16027 MEP_Compliance.cck Page 7 of 8

1 | High Impact (Tier 1) 2 | Medium Impact (Tier 2) 3 | Low Impact (Tier 3)

Project Title: ELKHORN FIRE STATION REMODEL Report date: 02/18/16
 Data filename: \\10.0.0.12\projectFiles\2016\16027\CALCS\16027 MEP_Compliance.cck Page 8 of 8

ARCHITECT:



COLE ARCHITECTS | 802 W. BANNOCK SUIT 208
 Boise, ID 83702 | (208) 345-1800

STAMP:



CONSULTANT:



PROJECT INFORMATION:

PROJECT NAME:
**ELKHORN FIRE STATION
 REMODEL - SLEEPING
 QUARTERS**

CITY OF SUN VALLEY

100 ARROW LEAF RD., SUN VALLEY, ID 83353

REVISIONS:

MARK	DATE	DESCRIPTION
------	------	-------------

PROJECT PHASE CD

PROJECT NUMBER 15-92

PROJECT MANAGER R.TeBeau

PROJECT ARCHITECT R.Stewart

DESIGN R.TeBeau

DRAWN BY LR

SHEET NAME:

**MECHANICAL
 COMCHECK**

SHEET NUMBER:

M001

03/01/16

Keynote Notes

- SYMBOL USED FOR NOTE CALLOUT
- 101 EXISTING ELECTRIC UNIT HEATER TO REMAIN.
 - 107 EXISTING T-STAT ASSOCIATED WITH ELECTRIC UNIT HEATERS TO BE RELOCATED. REFER TO 1ST FLOOR HVAC PLAN FOR NEW WORK.
 - 108 EXISTING ELECTRIC WALL HEATER AND ASSOCIATED CONTROLS TO BE REMOVED.
 - 109 EXISTING ELECTRIC UNIT HEATER AND ASSOCIATED CONTROLS TO BE REMOVED.



COLE ARCHITECTS | 802 W. BANNOCK SUIT 208
Boise, ID 83702 | (208) 345-1800



PROJECT NAME:
**ELKHORN FIRE STATION
REMODEL - SLEEPING
QUARTERS**

CITY OF SUN VALLEY

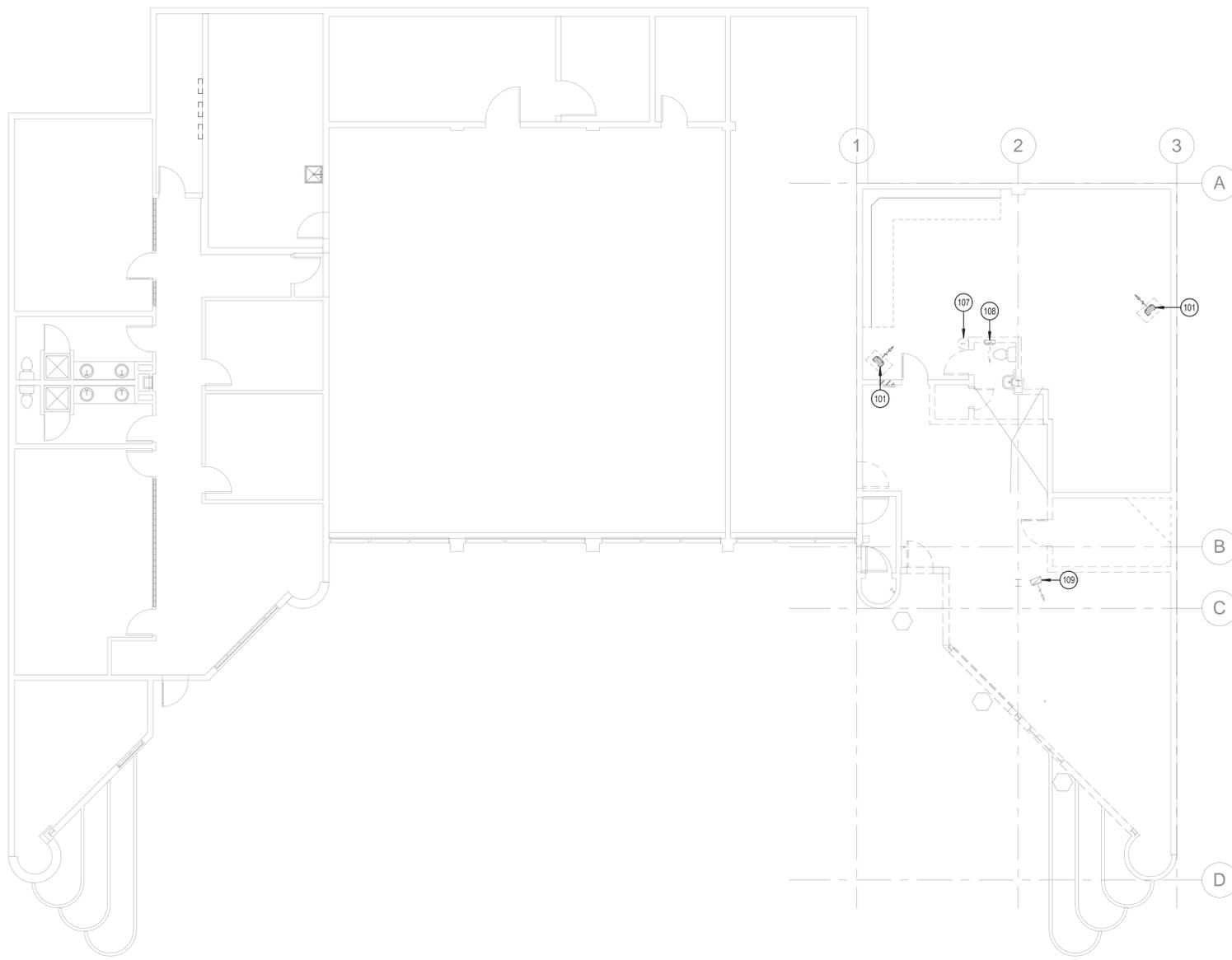
100 ARROW LEAF RD., SUN VALLEY, ID 83353

MARK	DATE	DESCRIPTION
------	------	-------------

PROJECT PHASE	CD
PROJECT NUMBER	15-92
PROJECT MANAGER	R.TeBeau
PROJECT ARCHITECT	R.Stewart
DESIGN	R.TeBeau
DRAWN BY	LR

1ST FLOOR MECHANICAL DEMO PLAN

M100

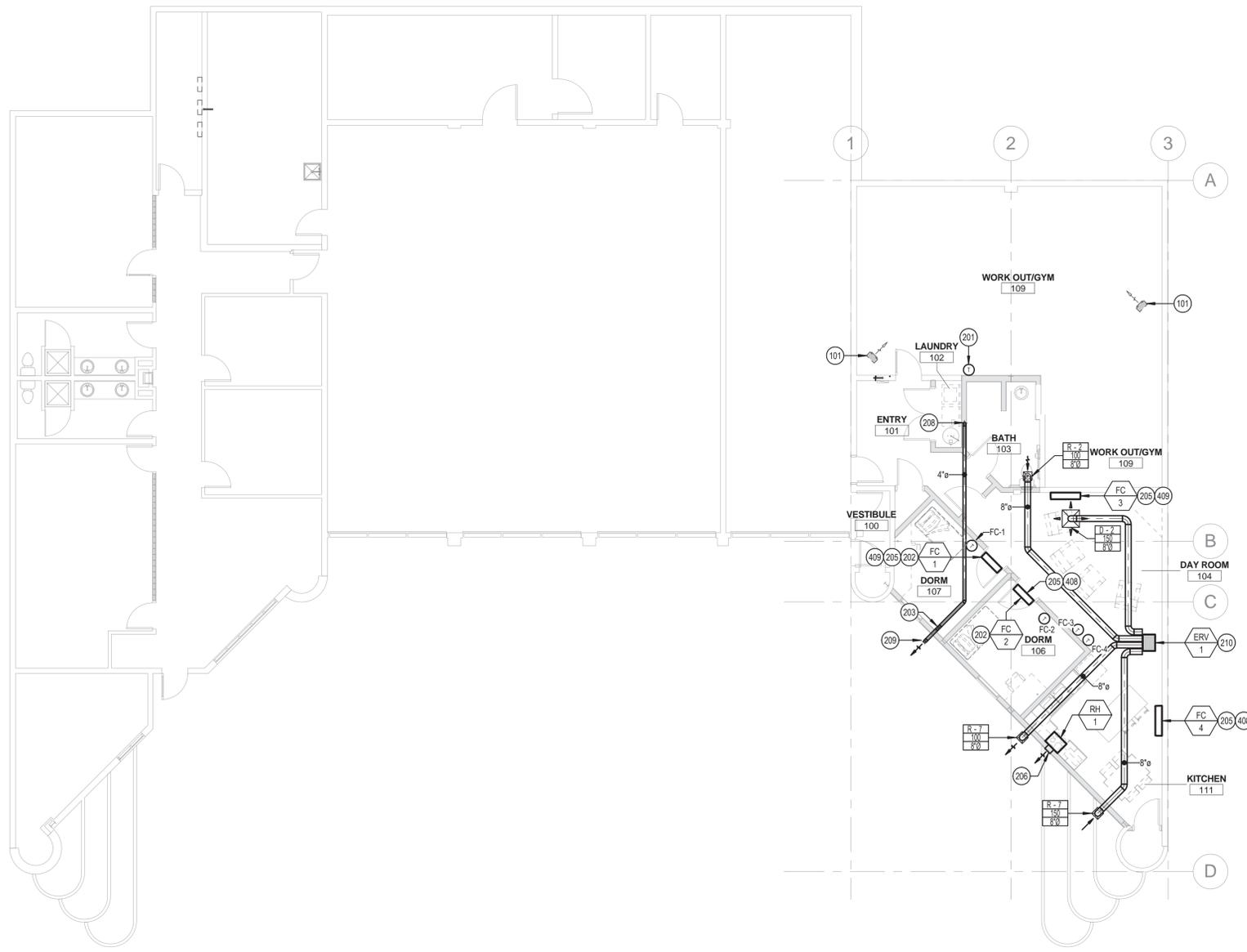


**1ST FLOOR HVAC DEMO
PLAN**
1/8" = 1'-0"



Keynote Notes

- SYMBOL USED FOR NOTE CALLOUT
- 101 EXISTING ELECTRIC UNIT HEATER TO REMAIN.
- 201 RELOCATED T-STAT.
- 202 DUCTLESS FAN COIL UNIT LOCATED ABOVE DOOR. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
- 203 INDICATES RISER/DROP IN DUCTWORK.
- 205 ROUTE REFRIGERANT LINES PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. REFER TO TYPICAL PIPING THRU ROOF DETAIL ON SHEET M300.
- 206 ROUTE 3-1/4"X10" EXHAUST DUCT THROUGH EXTERIOR WALL AND TERMINATE WITH WALL CAP. 4" DIAMETER SPIRAL GALVANIZED DRYER VENT. ROUTE UP TO CEILING SPACE. DUCT SHALL NOT BE CONNECTED OR INSTALLED USING SHEET METAL SCREWS OR OTHER FASTENERS THAT WILL OBSTRUCT THE EXHAUST FLOW. PROVIDE CLEANOUT IN VERTICAL RISER. PROVIDE OUTLET WITH BOOSTER FAN AND BACKDRAFT DAMPER. SCREENS SHALL NOT BE INSTALLED AT THE DUCT TERMINATION. PROVIDE 100 SQ. IN. OF FREE AREA VENTILATION TO LAUNDRY 102. CONTRACTOR SHALL COORDINATE WITH ARCHITECT.
- 209 TERMINATE DRYER VENT WITH BUILDER'S BEST SOFFIT VENT OR EQUAL. PROVIDE WITH BACKDRAFT DAMPER. ARCHITECT TO SELECT COLOR.
- 210 ENERGY RECOVERY UNIT LOCATED IN CEILING SPACE. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
- 408 ROUTE PUMPED CONDENSATE LINE FULL SIZE TO NEAREST SINK TAILPIECE. REFER TO DETAIL ON SHEET P300.
- 409 ROUTE PUMPED CONDENSATE LINE FULL SIZE TO FLOOR SINK LOCATED IN LAUNDRY 102.



1ST FLOOR HVAC PLAN
 1/8" = 1'-0"



ARCHITECT:



COLE ARCHITECTS | 802 W. BANNOCK SUIT 208
 Boise, ID 83702 | (208) 345-1800

STAMP:



CONSULTANT:



PROJECT INFORMATION:

PROJECT NAME:
**ELKHORN FIRE STATION
 REMODEL - SLEEPING
 QUARTERS**

CITY OF SUN VALLEY
 100 ARROW LEAF RD., SUN VALLEY, ID 83353

REVISIONS:

MARK	DATE	DESCRIPTION
------	------	-------------

PROJECT PHASE	CD
PROJECT NUMBER	15-92
PROJECT MANAGER	R.TeBeau
PROJECT ARCHITECT	R.Stewart
DESIGN	R.TeBeau
DRAWN BY	LR

SHEET NAME:

**1ST FLOOR HVAC
 PLAN**

SHEET NUMBER:

M200

1

2

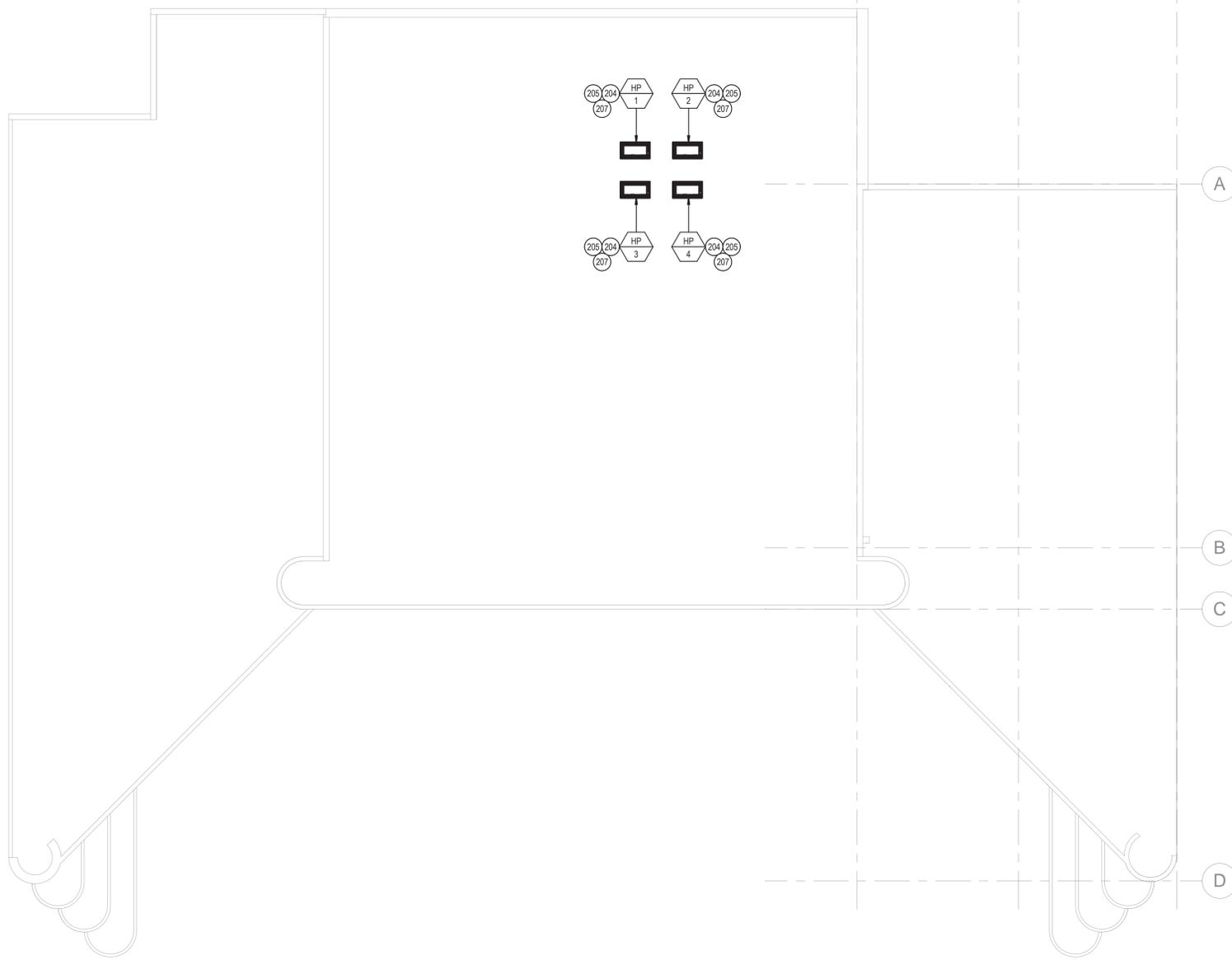
3

A

B

C

D



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



Keynote Notes

○ SYMBOL USED FOR NOTE CALLOUT

- 204 HEAT PUMP TO BE MOUNTED ON PLATFORM. REFER TO ROOFTOP HEAT PUMP UNIT PLATFORM DETAIL ON SHEET M300.
- 205 ROUTE REFRIGERANT LINES PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. REFER TO TYPICAL PIPING THRU ROOF DETAIL ON SHEET M300.
- 207 PROVIDE HEAT TAPE AT HEAT PUMP UNIT. COORDINATE WITH ELECTRICAL.

ARCHITECT:

COLE ARCHITECTS

COLE ARCHITECTS | 802 W. BANNOCK SUIT 208
 Boise, ID 83702 | (208) 345-1800

STAMP:



CONSULTANT:



PROJECT INFORMATION:

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CITY OF SUN VALLEY
 100 ARROW LEAF RD., SUN VALLEY, ID 83353

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PROJECT PHASE	CD
PROJECT NUMBER	15-92
PROJECT MANAGER	R.TeBeau
PROJECT ARCHITECT	R.Stewart
DESIGN	R.TeBeau
DRAWN BY	LR

SHEET NAME:

HVAC ROOF PLAN

SHEET NUMBER:

M201

STAMP:



CONSULTANT:



PROJECT INFORMATION:

PROJECT NAME:
**ELKHORN FIRE STATION
 REMODEL - SLEEPING
 QUARTERS**
CITY OF SUN VALLEY
 100 ARROW LEAF RD., SUN VALLEY, ID 83353

REVISIONS:

MARK	DATE	DESCRIPTION

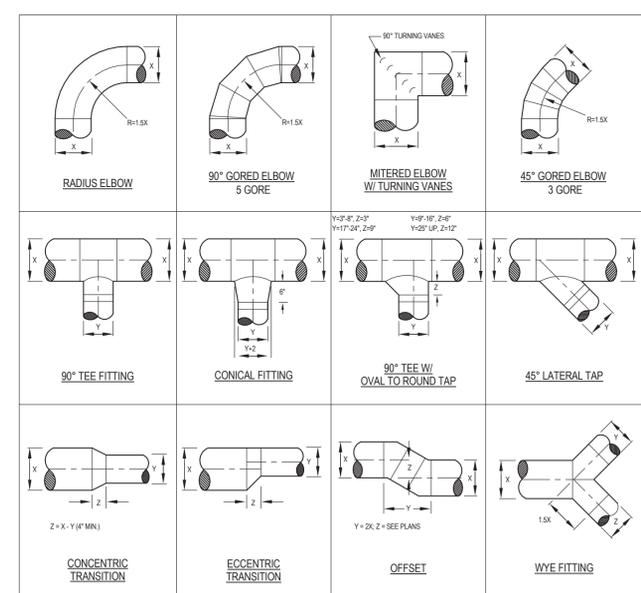
PROJECT PHASE	CD
PROJECT NUMBER	15-92
PROJECT MANAGER	R.TeBeau
PROJECT ARCHITECT	R.Stewart
DESIGN	R.TeBeau
DRAWN BY	LR

SHEET NAME:

HVAC DETAILS

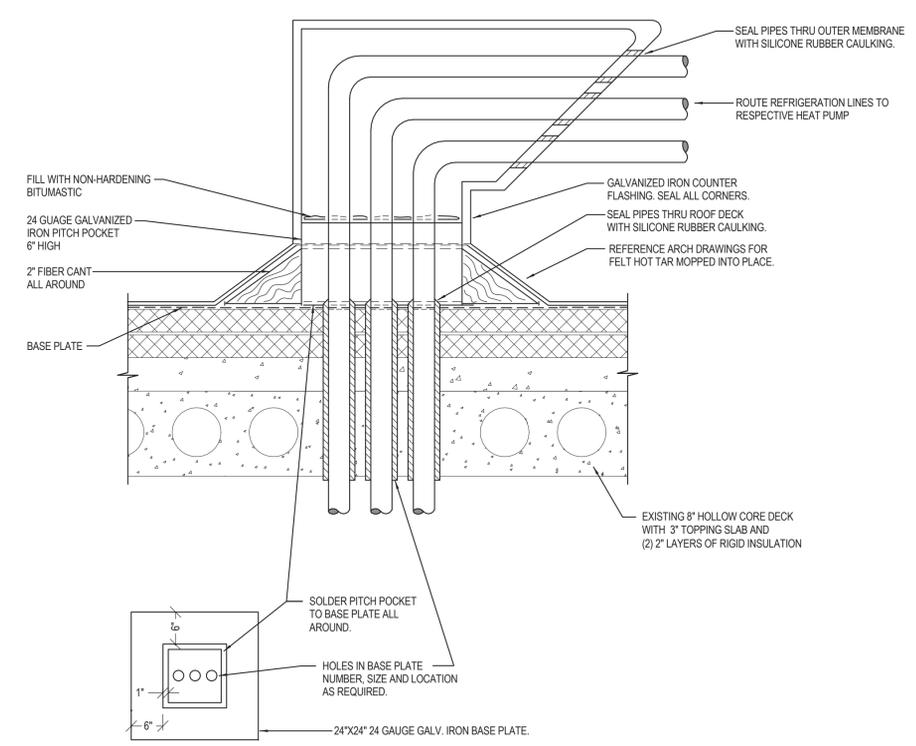
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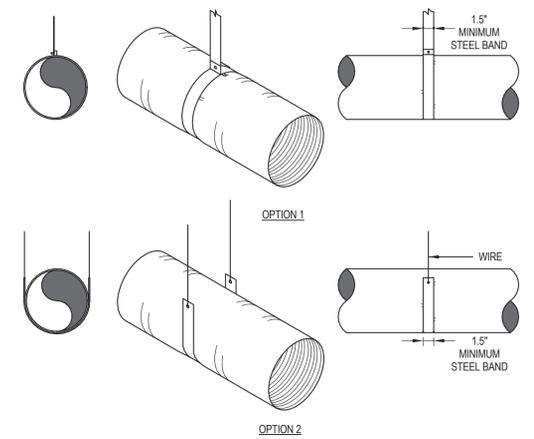


NOTE:
 ALL DUCTWORK TRANSITIONS SHALL BE CONSTRUCTED AND INSTALLED TO SMACNA, SPECIFICATIONS AND THE ABOVE NOTED STANDARDS. ANY DEVIATIONS SHALL BE COORDINATED WITH THE ENGINEER.

③ ROUND DUCT FITTING DETAIL
 NTS

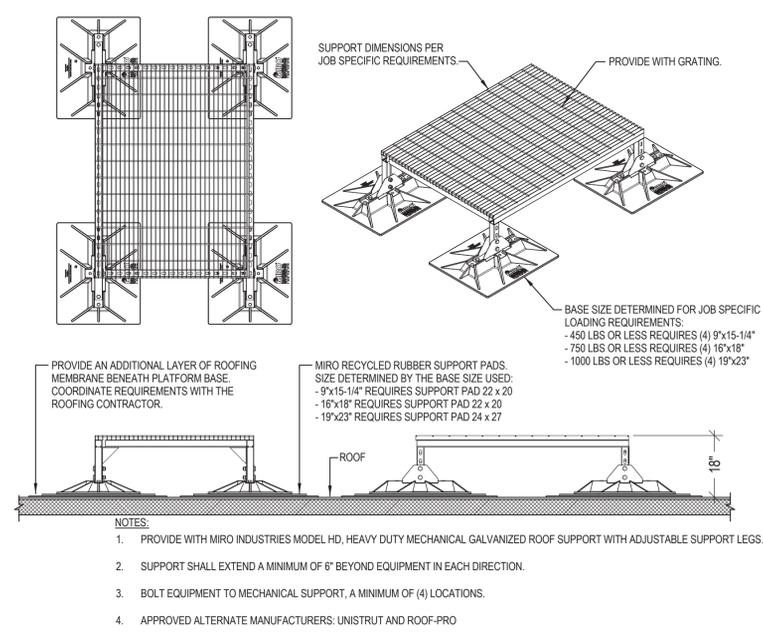


② TYPICAL PIPING THRU ROOF DETAIL
 NTS

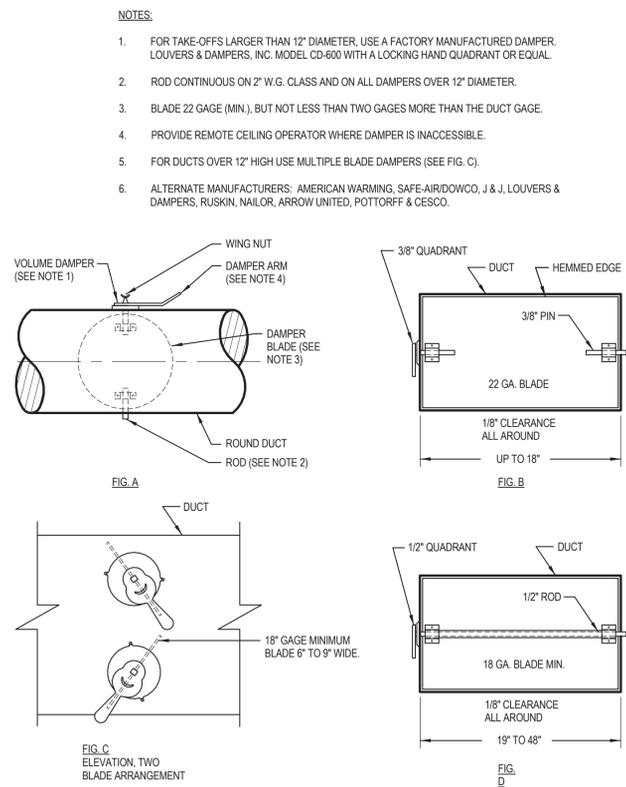


- NOTES:
- SUPPORT SYSTEM SHALL NOT DAMAGE, CRIMP, OR INHIBIT DUCT FREE AREA IN ANY WAY.
 - FLEX DUCT MUST NOT EXCEED 6'-0" FROM CONNECTION TO TERMINATION.
 - MAXIMUM LENGTH BETWEEN SUPPORTS MUST NOT EXCEED 3'-0" O.C.
 - ATTACH BANDS OR WIRES TO SUPPORT STRUCTURE ABOVE.
 - FLEXIBLE DUCTWORK SHALL BE FLEXMASTER 8-M, THERMAFLEX MK-E OR AN APPROVED EQUAL.
 - FLEXIBLE DUCTWORK SHALL BE INSULATED WITH A MINIMUM R-VALUE OF 5.
 - FLEXIBLE DUCT IS FOR INDOOR USE ONLY; DO NOT INSTALL OR STORE PRODUCT WHERE EXPOSURE TO DIRECT SUNLIGHT CAN OCCUR. PROLONGED EXPOSURE TO SUNLIGHT MAY CAUSE DETERIORATION OF VAPOR BARRIER.
 - TERMINAL DEVICES SHALL BE SUPPORTED INDEPENDENTLY OF THE FLEXIBLE DUCT.
 - REPAIR TORN OR DAMAGED VAPOR BARRIER/JACKET WITH DUCT TAPE LISTED AND LABELED TO UL 181B; IF INTERNAL CORE IS PENETRATED, REPLACE FLEXIBLE DUCT.
 - AVOID BENDING DUCT ACROSS SHARP CORNERS OR INCIDENTAL CONTACT WITH METAL FIXTURES, PIPES OR CONDUITS.
 - SHALL NOT BE INSTALLED WITHIN 4 INCHES OF HOT EQUIPMENT (FURNACES, BOILERS, STEAM PIPES, ETC.) THAT IS ABOVE 250° F.
 - SHALL NOT BE INSTALLED IN CONCRETE, BURIED BELOW GRADE OR IN CONTACT WITH THE GROUND.

⑤ FLEXIBLE DUCTWORK SUPPORT DETAIL
 NTS



① ROOFTOP HEAT PUMP UNIT PLATFORM DETAIL
 NTS



④ BALANCE DAMPER DETAIL
 NTS

RETURN & EXHAUST GRILLE SCHEDULE				
SYMBOL	NOMINAL SIZE	NECK / RUNOUT SIZE	CFM RANGE	REMARKS
R-1 6"Ø	8X8	6"Ø	0-80	1, 2, 3, 4, 5, 6
R-2 8"Ø	10X10	8"Ø	80-180	1, 2, 3, 4, 5, 6
R-3 10"Ø	12X12	10"Ø	180-300	1, 2, 3, 4, 5, 6
R-4 6"Ø	22X10	6"Ø	0-80	1, 2, 3, 4, 5, 6
R-5 8"Ø	22X10	8"Ø	80-180	1, 2, 3, 4, 5, 6
R-6 10"Ø	22X10	10"Ø	180-300	1, 2, 3, 4, 5, 6
R-7 8"Ø	10X10	8"Ø	80-180	2, 3, 4, 5, 7, 8

REMARKS:

- SIZES BASED ON TITUS MODEL 50F, ALUMINUM EGGRATE RETURN GRILLE. 1/2" x 1/2" x 1" SPACING (SINGLE CORE). PROVIDE SQUARE TO ROUND TRANSITION (WHERE ROUND RUN-OUT INDICATED). APPROVED ALTERNATE MANUFACTURERS INCLUDE ANEMOSTAT, CARNES, PRICE, NAILOR, METAL-AIRE, TUTTLE & BAILEY, KRUEGER, J&J REGISTER, AND UNITED ENERTECH.
- SIZES BASED ON A MAXIMUM NC LEVEL OF 25.
- ALL GRILLES LOCATED IN LAY-IN CEILING AREAS SHALL HAVE BORDER #3, UNLESS OTHERWISE INDICATED. ALL GRILLES LOCATED IN HARD CEILING AREAS SHALL HAVE BORDER #1, UNLESS OTHERWISE INDICATED. REFER TO ARCHITECTURAL PLANS FOR LOCATIONS OF VARIOUS CEILING TYPES. SHEET METAL DUCTWORK VISIBLE BEHIND GRILLE SHALL BE PAINTED FLAT BLACK.
- ALL OF THE GRILLES SHOWN IN THIS SCHEDULE MAY NOT BE USED. REFERENCE THE HVAC PLAN FOR GRILLE CALL-OUTS AND THE QUANTITY OF EACH SIZE REQUIRED.
- WHENEVER THERE IS A DISCREPANCY BETWEEN THE RUNOUT DUCT SIZE SHOWN ON THE PLANS AND THAT SHOWN IN THE SCHEDULE, ALWAYS USE THE LARGER OF THE TWO DUCT SIZES.
- WHITE FINISH.
- SOFFIT GRILLE SIZES BASED ON TITUS MODEL 355FL, ALUMINUM CONSTRUCTION, 35° DEFLECTION, 1/2" SPACING, WITH ALUMINUM MESH INSECT SCREEN. APPROVED ALTERNATE MANUFACTURERS INCLUDE ANEMOSTAT, CARNES, PRICE, NAILOR, TUTTLE & BAILEY, KRUEGER, J&J REGISTER, AND UNITED ENERTECH.
- PAINT GRILLE TO MATCH COLOR OF SOFFIT.

DIFFUSER SCHEDULE				
SYMBOL	NOMINAL SIZE	NECK / RUNOUT SIZE	CFM RANGE	REMARKS
D-1 6"Ø	6X6	6"Ø	0 - 90	1, 2, 3, 4, 5, 6
D-2 8"Ø	9X9	8"Ø	90 - 200	1, 2, 3, 4, 5, 6

REMARKS:

- SIZES BASED ON TITUS MODEL TDC SERIES. APPROVED ALTERNATE MANUFACTURERS INCLUDE ANEMOSTAT, J&J REGISTER, NAILOR, METAL-AIRE, TUTTLE & BAILEY, KRUEGER, PRICE, AND UNITED ENERTECH.
- SIZES BASED ON A MAXIMUM NC LEVEL OF 25.
- ALL DIFFUSERS LOCATED IN LAY-IN CEILING AREAS SHALL BE BORDER TYPE 3 AND BE MOUNTED IN MANUFACTURER PROVIDED 24"X24" PANELS. ALL DIFFUSERS LOCATED IN HARD CEILING AREAS SHALL BE BORDER TYPE 6 (BEVELED) SURFACE MOUNTED. SEE ARCHITECTURAL PLANS FOR LOCATIONS OF VARIOUS CEILING TYPES.
- SEE HVAC FLOOR PLANS FOR DIRECTIONAL THROW REQUIREMENTS FOR EACH DIFFUSER.
- WHENEVER THERE IS A DISCREPANCY BETWEEN THE RUNOUT DUCT SIZE SHOWN ON THE PLANS AND THAT SHOWN IN THE SCHEDULE, ALWAYS USE THE LARGER OF THE TWO DUCT SIZES.
- WHITE FINISH.

VENTILATOR / ENERGY RECOVERY UNIT SCHEDULE												
SYMBOL	GROSS AIR DELIVERY AT 0.1" WG		ELECTRICAL		TOTAL RECOVERY EFFICIENCY (%)		APPARENT SENSIBLE EFFECTIVENESS (%)		MAX. SONES	WEIGHT (LBS)	MANUFACTURER & MODEL	REMARKS
	SUPPLY (CFM)	EXHAUST (CFM)	V/I	W	HEATING	COOLING	HEATING	COOLING				
ERV-1	150	100	120/1	132	N/A	53	87	N/A	1	51	LIFEBREATH 120ERV	1, 2

REMARKS:

- PROVIDE WITH MANUFACTURER'S PRE-FILTERS FOR BOTH EXHAUST AND SUPPLY AIR STREAMS, ADJUSTABLE 1" BRACKETS, TEMPERATURE SENSOR FOR FROST PREVENTION, AND WEATHERHOODS.
- UNIT TO RUN CONTINUOUSLY.

DUCTLESS SPLIT SYSTEM AIR CONDITIONING UNIT SCHEDULE (HEAT PUMP)																
SYMBOL	AREA SERVED	NOMINAL TONS	UNIT TYPE	SUPPLY FAN			COOLING REQUIRED AT 95°F OSA, 80°F EDB, 62°F EWB		HEATING REQUIRED AT 70°F OSA	ELECTRICAL OUTDOOR UNIT			MINIMUM SEER	INDOOR/ OUTDOOR OPERATING WEIGHT (LBS)	MANUFACTURER AND MODEL	REMARKS
				CFM	HP	V/Ø	TOTAL MBH	SENSIBLE MBH	TOTAL MBH	MCA	MOCP	V/Ø				
EC-1_HP-1	DORM 107	0.75	HIGH WALL COOLING/HEAT PUMP UNIT	400	NA	THROUGH OUTDOOR UNIT	10.9	9.0	10.9	9.5	15	208/1	20.0	18 / 60	DAIKIN FAN COIL MODEL FTX09NMVJU HEAT PUMP UNIT MODEL RXL09QMVJU	1, 2, 3, 4, 5, 6, 7
EC-2_HP-2	DORM 106	0.75	HIGH WALL COOLING/HEAT PUMP UNIT	400	NA	THROUGH OUTDOOR UNIT	10.9	9.0	10.9	9.5	15	208/1	20.0	18 / 60	DAIKIN FAN COIL MODEL FTX09NMVJU HEAT PUMP UNIT MODEL RXL09QMVJU	1, 2, 3, 4, 5, 6, 7
EC-3_HP-3	DAYROOM 104	1.5	HIGH WALL COOLING/HEAT PUMP UNIT	600	NA	THROUGH OUTDOOR UNIT	18.4	15.0	18.3	13.0	15	208/1	20.0	27 / 108	DAIKIN FAN COIL MODEL FTX15NMVJU HEAT PUMP UNIT MODEL RXL15QMVJU	1, 2, 3, 4, 5, 6, 7
EC-4_HP-4	KITCHEN 105	1.5	HIGH WALL COOLING/HEAT PUMP UNIT	600	NA	THROUGH OUTDOOR UNIT	18.4	15.0	18.3	13.0	15	208/1	20.0	27 / 108	DAIKIN FAN COIL MODEL FTX15NMVJU HEAT PUMP UNIT MODEL RXL15QMVJU	1, 2, 3, 4, 5, 6, 7

REMARKS:

- APPROVED ALTERNATE MANUFACTURERS: MITSUBISHI, PANASONIC, LG, CARRIER, OR APPROVED EQUAL BY ENGINEER.
- PROVIDE MANUFACTURER'S CRANKCASE HEATER, LOW AMBIENT CONTROLS & (TO 0°F) WIND BAFFLES, SNOW HOOD, DRAIN PAN HEATER, REFRIGERATION LINE SET SIZED BY MANUFACTURER, AND TAMPER PROOF PORT CAPS.
- CONTROL UNIT WITH MANUFACTURER'S HARD-WIRED WALL MOUNTED THERMOSTAT (WITH AUTO CHANGEOVER FOR HEAT PUMP VERSION ONLY).
- PROVIDE WITH MIRO INDUSTRIES HEAVY DUTY MECHANICAL GALVANIZED ROOF SUPPORT WITH ADJUSTABLE SUPPORT LEGS. SUPPORT SHALL EXTEND A MINIMUM OF 2" BEYOND EQUIPMENT IN EACH DIRECTION. BOLT EQUIPMENT TO MECHANICAL SUPPORT.
- PROVIDE WITH LITTLE GIANT MINI CONDENSATE PUMP. CONCEAL PUMP BEHIND UNIT WITHIN MOUNTING BRACKET ASSEMBLY. REFERENCE PLUMBING FIXTURE SCHEDULE FOR CONDENSATE PUMP SPECIFICATIONS.
- ELECTRICAL TO PROVIDE DISCONNECT.
- PROVIDE HEAT TAPE AT OUTDOOR HEAT PUMP UNIT. COORDINATE WITH ELECTRICAL.

KITCHEN EXHAUST HOOD SCHEDULE													
SYMBOL	AREA SERVED	UNIT TYPE	HOOD DIMENSIONS		EXHAUST AIR			MAKE-UP AIR			HOOD HANGING WEIGHT (LBS)	MANUFACTURER AND MODEL	REMARKS
			LENGTH	WIDTH	AIRFLOW CFM	DUCT CONNECTION	MAX S.P. LOSS	AIRFLOW CFM	DUCT CONNECTION	MAX S.P. LOSS			
RH-1	KITCHEN / DINING 205	RESIDENTIAL RANGE HOOD	2' - 0"	17.5'	200	3-1/4" X 10"	-0.10"	N/A	N/A	N/A	N/A	GE MODEL JV248PSS	1, 2, 3

REMARKS:

- APPROVED ALTERNATE MANUFACTURERS: BROAN, JENNAIR, AND KENMORE.
- ELECTRICAL SPECIFICATIONS - 120V/1 PHASE, 3.5 AMPS. PROVIDE WITH DISHWASHER SAFE ALUMINUM FILTERS, (1) 40W TYPE A-15 APPLIANCE BULB, REAR EXHAUST VENTING OPTION WITH ADAPTOR, BACKDRAFT DAMPER AND GE JXHC1 CORD KIT. UNIT SHALL BE STAINLESS STEEL.
- PROVIDED BY OTHERS, INSTALLED BY CONTRACTOR.

ARCHITECT:

COLE ARCHITECTS

COLE ARCHITECTS | 802 W. BANNOCK SUIT 208
Boise, ID 83702 | (208) 345-1800

STAMP:

CONSULTANT:

MUSGROVE ENGINEERING, P.A.
214 S. Washington St.
Boise, Idaho 83721
(208) 344-1100
www.musgrove.com
LICENSE NO. 15048-01-0001-0001
Professional Engineer No. 14147

PROJECT INFORMATION:

PROJECT NAME:
**ELKHORN FIRE STATION
REMODEL - SLEEPING
QUARTERS**

CITY OF SUN VALLEY

100 ARROW LEAF RD., SUN VALLEY, ID 83353

REVISIONS:

MARK	DATE	DESCRIPTION

PROJECT PHASE	CD
PROJECT NUMBER	15-92
PROJECT MANAGER	R.TeBeau
PROJECT ARCHITECT	R.Stewart
DESIGN	R.TeBeau
DRAWN BY	LR

SHEET NAME:

HVAC SCHEDULES

SHEET NUMBER:

M400



PROJECT NAME:
**ELKHORN FIRE STATION
REMODEL - SLEEPING
QUARTERS**

CITY OF SUN VALLEY

100 ARROW LEAF RD., SUN VALLEY, ID 83353

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PROJECT PHASE CD

PROJECT NUMBER 15-92

PROJECT MANAGER R.TeBeau

PROJECT ARCHITECT R.Stewart

DESIGN R.TeBeau

DRAWN BY LR

**1ST FLOOR
PLUMBING DEMO
PLAN**

P100

Keynote Notes

○ SYMBOL USED FOR NOTE CALLOUT

- 102 EXISTING WATER CLOSET TO BE REMOVED. CAP EXISTING WASTE, VENT AND WATER PIPING BACK AT MAINS.
- 103 EXISTING LAVATORY TO BE REMOVED. CAP EXISTING WASTE, VENT AND WATER PIPING BACK AT MAINS.
- 104 EXISTING FLOOR DRAIN TO BE REMOVED. CAP EXISTING WASTE AND VENT PIPING BACK AT MAINS.
- 105 EXISTING SHOWER TO BE REMOVED. CAP EXISTING WASTE, VENT AND WATER PIPING BACK AT MAINS.
- 106 EXISTING HOSE BIBB TO BE REMOVED. CAP EXISTING WATER PIPING BACK AT MAIN.
- 110 EXISTING SANITARY SEWER LINE SERVING EXISTING PLUMBING FIXTURES. CONTRACTOR TO VERIFY EXACT SIZE, LOCATION AND INVERT ELEVATION.
- 111 EXISTING 50 GALLON ELECTRIC WATER HEATER LOCATED ON PLATFORM ABOVE RESTROOM TO BE RELOCATED. CONTRACTOR TO DEMO ALL WATER SUPPLY LINES BACK TO MAINS AS REQUIRED. REFER TO 1ST FLOOR PLUMBING PLAN FOR NEW WORK.
- 112 CONTRACTOR TO DEMO 3/4" CW MAIN BACK TO APPARATUS BAY. REFER TO 1ST FLOOR PLUMBING PLAN FOR NEW WORK.



1ST FLOOR PLUMBING DEMO PLAN

1/8" = 1'-0"



Keynote Notes

- SYMBOL USED FOR NOTE CALLOUT
- 401 REFER TO DISHWASHER CONNECTION DETAIL ON SHEET P300.
- 402 2" VENT UP. REFER TO 1ST FLOOR PLUMBING PLAN FOR CONTINUATION.
- 403 CONNECT NEW 4" SANITARY SEWER TO EXISTING SANITARY SEWER PIPING. CONTRACTOR TO VERIFY EXACT LOCATION, SIZE AND INVERT ELEVATION.



COLE ARCHITECTS | 802 W. BANNOCK SUIT 208
Boise, ID 83702 | (208) 345-1800



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CITY OF SUN VALLEY

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PROJECT PHASE **CD**

PROJECT NUMBER 15-92

PROJECT MANAGER R.TeBeau

PROJECT ARCHITECT R.Stewart

DESIGN R.TeBeau

DRAWN BY LR

FOUNDATION PLUMBING PLAN

P200



FOUNDATION PLUMBING PLAN

1/8" = 1'-0"





PROJECT NAME:
**ELKHORN FIRE STATION
REMODEL - SLEEPING
QUARTERS**

CITY OF SUN VALLEY
100 ARROW LEAF RD., SUN VALLEY, ID 83353

MARK	DATE	DESCRIPTION
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PROJECT PHASE | CD

PROJECT NUMBER | 15-92

PROJECT MANAGER | R.TeBeau

PROJECT ARCHITECT | R.Stewart

DESIGN | R.TeBeau

DRAWN BY | Author

**1ST FLOOR
PLUMBING PLAN**

P201

Keynote Notes

○ SYMBOL USED FOR NOTE CALLOUT

- 404 RELOCATED 50 GALLON ELECTRIC WATER HEATER.
- 405 CONNECT NEW 1" CW LINE TO EXISTING CW SERVICE LOCATED IN APPARATUS BAY. CONTRACTOR TO VERIFY EXACT LOCATION.
- 406 2" VENT UP FROM BELOW.
- 407 CONNECT NEW 2" VENT LINE TO EXISTING VTR. CONTRACTOR TO VERIFY EXACT LOCATION AND SIZE.



1ST FLOOR PLUMBING PLAN

1/8" = 1'-0"



STAMP:



CONSULTANT:



PROJECT INFORMATION:

PROJECT NAME:
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CITY OF SUN VALLEY
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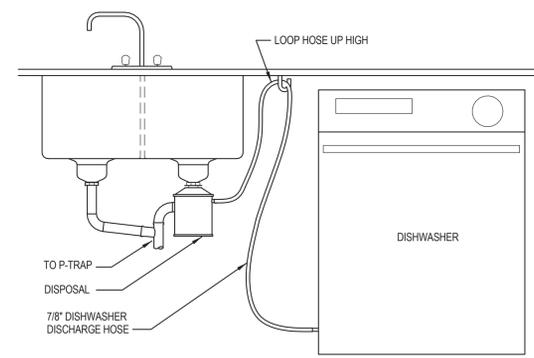
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PLUMBING DETAILS

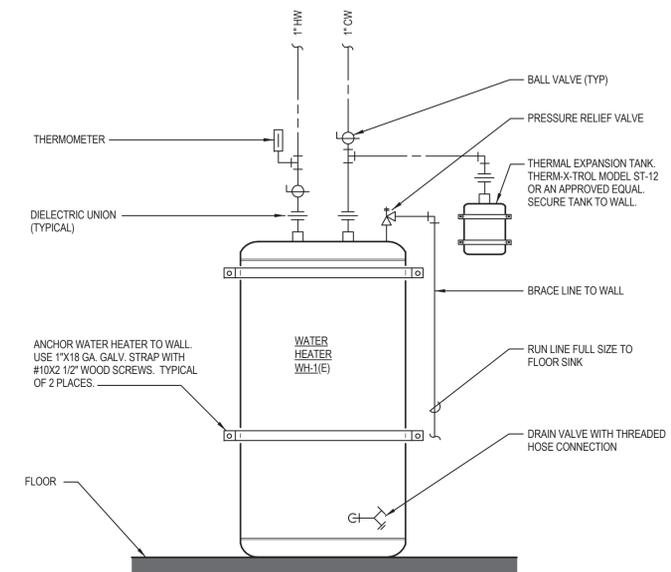
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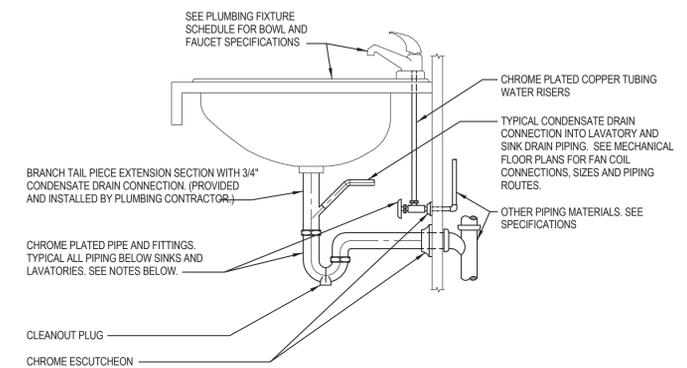
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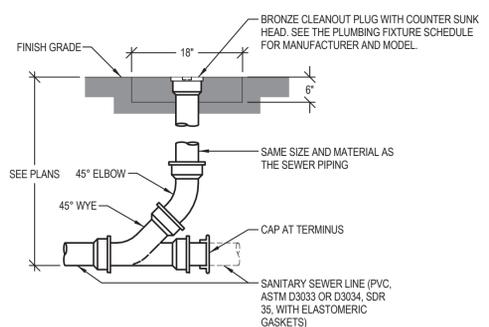
① DISHWASHER CONNECTION DETAIL
 12" = 1'-0"



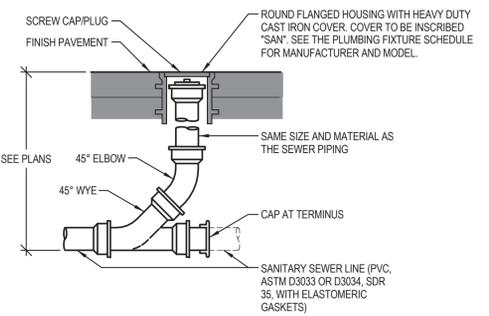
② ELECTRIC WATER HEATER PIPING DETAIL
 12" = 1'-0"



③ SINK/LAVATORY TAILPIECE CONDENSATE DETAIL
 12" = 1'-0"



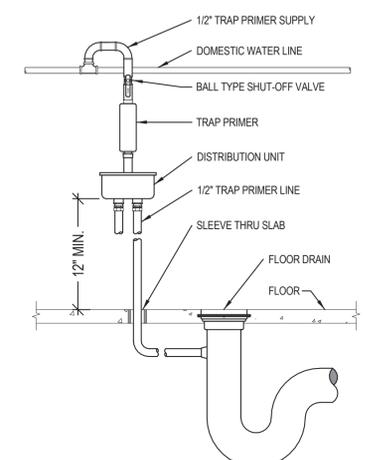
PEDESTRIAN TRAFFIC AREAS / NON-PAVED AREAS



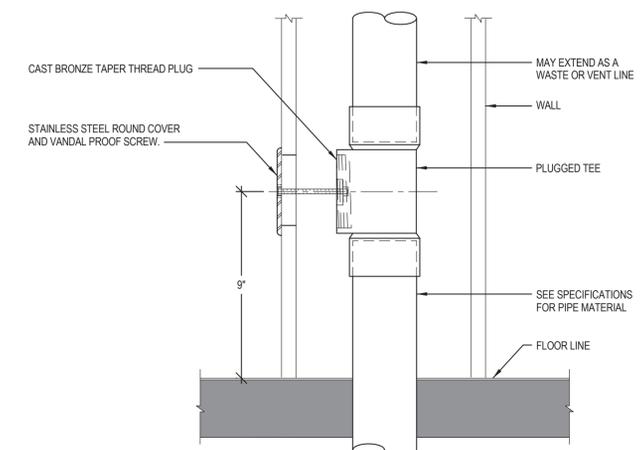
VEHICULAR TRAFFIC AREAS / PAVED AREAS

④ GRADE CLEANOUT (GCO) DETAIL
 12" = 1'-0"

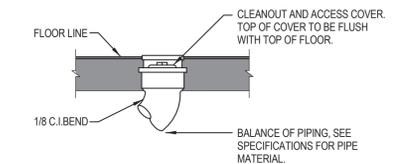
- PRESSURE ACTIVATED PRIMER NOTES:**
1. THE PRIMING VALVE MUST BE INSTALLED ON A FRESH COLD WATER LINE OF 1/2" TO 1-1/2" DIAMETER.
 2. DISTRIBUTION UNIT MUST BE INSTALLED LEVEL WITH AN ACCESS DOOR FOR PERIODIC INSPECTION.
 3. DO NOT SUBJECT TRAP PRIMER VALVE TO ROUGH-IN PRESSURE TEST.
 4. DISTANCE FROM DISTRIBUTION UNIT TO FLOOR MUST BE 12" FOR EVERY 20' HORIZONTALLY.
 5. TRAP PRIMER SHALL BE PRECISION PLUMBING PRODUCTS MODEL CPO-500 WITH DU DISTRIBUTION UNIT IF REQUIRED. APPROVED ALTERNATES: MIFAB, SIOUX CHIEF, AND ZURN.



⑤ TRAP PRIMER CONNECTION DETAIL
 12" = 1'-0"



⑥ WALL CLEANOUT (WCO) DETAIL
 12" = 1'-0"



⑦ FLOOR CLEANOUT (FCO) DETAIL
 12" = 1'-0"

NOTE: CLEANOUTS SHALL BE PROVIDED AT EACH HORIZONTAL DRAINAGE PIPE AT ITS UPPER TERMINAL AND EACH RUN OF PIPING WHICH IS MORE THAN 100 FEET, AND SHALL BE PROVIDED FOR EACH 100 FEET DEVELOPED LENGTH, OR FRACTION THEREOF OF SUCH PIPING. AN ADDITIONAL CLEANOUT SHALL BE PROVIDED FOR EACH AGGREGATE HORIZONTAL CHANGE OF DIRECTION EXCEEDING ONE HUNDRED THIRTY-FIVE DEGREES, PER APPLICABLE PLUMBING CODE. THIS SHALL BE PROVIDED REGARDLESS OF WHAT IS SHOWN ON THE DRAWINGS.



COLE ARCHITECTS | 802 W. BANNOCK SUIT 208
Boise, ID 83702 | (208) 345-1800

STAMP:



CONSULTANT:



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REMODEL - SLEEPING
QUARTERS**

CITY OF SUN VALLEY

100 ARROW LEAF RD., SUN VALLEY, ID 83353

REVISIONS:

MARK	DATE	DESCRIPTION
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PROJECT PHASE **CD**

PROJECT NUMBER 15-92

PROJECT MANAGER R.TeBeau

PROJECT ARCHITECT R.Stewart

DESIGN R.TeBeau

DRAWN BY LR

SHEET NAME:

**PLUMBING
SCHEDULES**

SHEET NUMBER:

P400

PLUMBING FIXTURE SCHEDULE

SYMBOL	FIXTURE DESCRIPTION	CONNECTION SIZE					MANUFACTURER / MODEL NUMBER / DESCRIPTION / ADDITIONAL COMMENTS
		WASTE	VENT	TRAP	CW	HW	
CP-1	CONDENSATE PUMP (5 TONS OR LESS - SINGLE UNIT) (ABOVE CEILING APPLICATION)	1/2 TUBE	--	--	--	--	LITTLE GIANT MODEL EC-400, 2 GPH @ 2' HEAD, 3 FT. SUCTION LIFT, SELF PRIMING AND FLOAT CONTROL. .24 AMPS, 115/60.
D-1	DISPOSER	2	1 1/2	1 1/2	--	--	INSINK ERATOR MODEL BADGER 1: 1/3 HORSEPOWER, 120 VOLTS, 6.7 AMPS, CONTROLLED BY WALL SWITCH. PROVIDE WITH PRE-WIRED POWER CORD.
DW-1	DISHWASHER	--	--	--	--	1/2	PROVIDED BY OTHERS, CONNECT WASTE TO DISPOSAL. SEE DETAIL SHEET P300.
ET-1	EXPANSION TANK	--	--	--	3/4	--	AMTROL THERM-X-TROL ST-12, OR APPROVED EQUAL, NON ASME SERIES THERMAL EXPANSION ABSORBER, ANTIMICROBIAL LINER, AND 5 YEAR WARRANTY.
FCQ	FLOOR CLEANOUT	SEE PLANS	--	--	--	--	JAY R. SMITH 4020 SERIES WITH ADJUSTABLE TOP AND ABS PLUG. PROVIDE WITH FIGURE NUMBER 9912 FOR HEIGHT ADJUSTMENT AFTER CONCRETE POUR.
FD-1	FLOOR DRAIN (CONCRETE FLOOR)	2	2	2	--	--	JAY R. SMITH FIGURE NUMBER 2005Y-A05NB: NO-HUB OUTLET, 5" ROUND, NICKEL BRONZE FINISH, WITH ADJUSTABLE STRAINER AND TRAP PRIMER. INSTALL TOP OF DRAIN 1/8" BELOW FINISH FLOOR AND CAULK EDGE.
FS-1	FLOOR SINK (6" DEEP) (HALF GRATE) (FOOT TRAFFIC RATED) COMMERCIAL KITCHEN, BAR, OR PROCESSING LOCATIONS	2	2	2	--	--	JAY R. SMITH FIGURE NUMBER 3002, STAINLESS STEEL RECEPTOR, STEEL DOME STRAINER AND GRATE WITH TRAP PRIMER. INSTALL TOP OF SINK 1/8" BELOW FINISH FLOOR AND CAULK EDGE.
GCO	GRADE CLEANOUT (NON-PAVED AREAS)	SEE PLANS	--	--	--	--	JAY R. SMITH 4220 SERIES WITH ABS PLUG.
GCO	GRADE CLEANOUT (PAVED AREAS) (VEHICULAR TRAFFIC)	SEE PLANS	--	--	--	--	JAY R. SMITH 4250 SERIES, ROUND FLANGED HOUSING WITH HEAVY DUTY CAST IRON COVER. FURNISH WITH ABS PLUG. COVER TO BE INSCRIBED "SAN".
LAV-1	LAVATORY (COUNTERTOP / CABINET MOUNTED) (ADA COMPLIANT)	1 1/2	1 1/2	1 1/4	1/2	1/2	KOHLER PENNINGTON MODEL K-2196-4: VITREOUS CHINA, COUNTERTOP MOUNTED, HOLES ON 4" CENTERS, AND GRID STRAINER. KOHLER CORALAIS MODEL K-15198: 4 1/2" LONG, SINGLE LEVER FAUCET WITH .5 GPM AERATOR. PROVIDE WITH WATTS SERIES USG-B THERMOSTATIC MIXING VALVE, ASSE STANDARD 1070 LISTED, BRONZE BODY, INTEGRAL CHECK VALVES, AND SELECTABLE TEMPERATURE RANGE FROM 80°F TO 120°F. PROVIDE WITH PIPING INSULATION, TRUEBRO LAV GUARD, PLUMBEREX HANDI-SHIELD, OR EQUAL.
S-1	SINK - DOUBLE COMPARTMENT (13" X 16" X 6 1/2" - EACH) (ADA COMPLIANT)	2	1 1/2	1 1/2	1/2	1/2	ELKAY LUSTERTONE MODEL LRAD-3322: 6 1/2" DEEP STAINLESS STEEL SINK. ELKAY MODEL LK-3001 SINGLE LEVER FAUCET, SWING SPOUT, AND HOSE SPRAY. PROVIDE WITH ELKAY MODEL LK-35 CHROME PLATED TAILPIECE AND STAINLESS STEEL BASKET.
SHR-1	SHOWER (36" X 37" X 80") (INSERT STYLE) (PUBLIC STANDARD)	2	1 1/2	2	1/2	1/2	BEST BATH SYSTEMS MODEL LC353636P WITH A 5" THRESHOLD, CLASSIC TILE ONE PIECE SHOWER MODULE SHALL BE CONSTRUCTED OF GEL COAT FIBERGLASS WITH FULL INTEGRAL PLYWOOD BACKING IN THE WALLS AND FLOOR, FOR STRENGTH AND CUSTOMIZED INSTALLATION OF ACCESSORIES. SIOUX CHIEF CAULKLESS BRASS DRAIN #827-2B WITH CHROME SCREEN, MOEN 8375 1 HANDLE PRESSURE BALANCING SHOWER ONLY, POSI-TEMP, 4 PORT CYCLING VALVE WITHOUT VOLUME CONTROL, ADJUSTABLE TEMPERATURE LIMIT STOP, 1/4" TURN STOPS, POLISHED CHROME FINISH, AND VANDAL RESISTANT HEAD, ARM, AND FLANGE.
TP-1	TRAP PRIMER (PRESSURE ACTIVATED) (1 TO 4 TRAPS)	--	--	--	1/2"	--	PRECISION PLUMBING PRODUCTS MODEL CPO-500 WITH DU DISTRIBUTION UNIT IF REQUIRED FOR SERVING MORE THAN ONE TRAP. APPROVED ALTERNATES: MIFAB, SIOUX CHIEF, SLOAN, AND ZURN
WB-1	WALL BOX (WATER SUPPLY TO ICE MAKER)	--	--	--	1/2	--	OATEY FIREMASTER MODEL 39121 WITH FACEPLATE, ADJUSTABLE METAL SUPPORT BRACKET, AND WATER HAMMER ARRESTOR. FIRE-RATED, LOW LEAD, OR APPROVED EQUAL.
WB-2	WALL BOX (SUPPLY TO AND DRAIN FROM WASHING MACHINE)	2	1 1/2	2	1/2	1/2	OATEY FIREMASTER MODEL 38478 WITH ADJUSTABLE METAL SUPPORT BRACKET, AND WATER HAMMER ARRESTORS. FIRE RATED, OR APPROVED EQUAL.
WC-1	WATER CLOSET (FLUSH TANK) (FLOOR MOUNTED) (COMFORT HEIGHT / ADA)	4	2	INT.	1/2	--	KOHLER CIMARRON MODEL K-3589 (LEFT LEVER) / K-3589-RA (RIGHT LEVER), FLOOR MOUNTED, GRAVITY FLUSH TANK WITH ELONGATED BOWL. KOHLER LUSTRA MODEL K-4650 ELONGATED, OPEN FRONT SEAT WITH CHECK-HINGE AND NO COVER. APPROVED ALTERNATES: TOTO-DALTON, MANSFIELD-MAVERICK, ZURN Z5551, ELJER-TITAN, AND AMERICAN STANDARD - CHAMPION.
WCQ	WALL CLEANOUT	SEE PLANS	--	--	--	--	JAY R. SMITH 4472T SERIES WITH CAST BRONZE TAPER THREAD PLUG, STAINLESS STEEL ROUND COVER, AND A STAINLESS STEEL VANDAL PROOF SCREW.

NOTES:

- ALL ADA COMPLIANT FIXTURES MUST COMPLY WITH ICC/ANSI A117.1. SEE ARCHITECTURAL PLANS FOR HANDICAPPED FIXTURE DESIGNATIONS, LOCATIONS, CLEARANCES, AND MOUNTING HEIGHTS.
- ALL EXPOSED HW PIPING, CW PIPING, AND DRAIN LINES BENEATH ALL LAVATORIES AND ALL ADA COMPLIANT SINKS MUST BE INSULATED TO PREVENT INJURY. REFER TO ARCHITECTURAL PLANS. INSULATE WITH MOLDED CLOSED CELL VINYL INSULATION - TRUEBRO, PLUMBEREX, OR EQUAL.
- PROVIDE P-TRAP PRIMERS FOR ALL FLOOR DRAINS AND FLOOR SINKS. PROVIDE A BALL TYPE SHUT-OFF VALVE UPSTREAM OF PRIMER VALVE. SEE SPECIFICATIONS.
- SEE SPECIFICATIONS FOR ALTERNATE APPROVED MANUFACTURERS.
- BACKFLOW PREVENTION: THIS BUILDING IS PROVIDED WITH A BACKFLOW PREVENTION DEVICE ON THE MAIN WATER SERVICE.

ELECTRICAL LEGEND - LIGHTING

- REFERENCE FIXTURE SCHEDULE FOR MOUNTING TYPE, MOUNTING HEIGHT, AND FIXTURE TYPE.
- DOUBLE FACE EXIT SIGN, CEILING MOUNTED, PROVIDE UNSWITCHED CONDUCTOR.
 - WALL MOUNTED DOUBLE FACE EXIT SIGN PROVIDE UNSWITCHED CONDUCTOR. MOUNT AT +8'-0" UNO.
 - SINGLE FACE EXIT SIGN, CEILING MOUNTED PROVIDE UNSWITCHED CONDUCTOR.
 - WALL MOUNTED SINGLE FACE EXIT SIGN PROVIDE UNSWITCHED CONDUCTOR. MOUNT AT +8'-0" UNO.
 - ARROW INDICATES DIRECTION TO BE SHOWN ON SIGN.
 - 1X1 LIGHT FIXTURE.
 - 1X1 LIGHT FIXTURE, PROVIDE EMERGENCY BALLAST CONNECTED TO AN UNSWITCHED CONDUCTOR.
 - TRACK LIGHT
 - 1X4 LIGHT FIXTURE.
 - 1X4 LIGHT FIXTURE, PROVIDE EMERGENCY BALLAST CONNECTED TO AN UNSWITCHED CONDUCTOR.
 - 2X4 LIGHT FIXTURE.
 - 2X4 LIGHT FIXTURE, PROVIDE EMERGENCY BALLAST CONNECTED TO AN UNSWITCHED CONDUCTOR.
 - 2X2 LIGHT FIXTURE.
 - 2X2 LIGHT FIXTURE, PROVIDE EMERGENCY BALLAST CONNECTED TO AN UNSWITCHED CONDUCTOR.
 - DIRECT/INDIRECT LIGHT FIXTURE. SEE SCHEDULE FOR LENGTH.
 - DIRECT/INDIRECT LIGHT FIXTURE. SEE SCHEDULE FOR LENGTH. PROVIDE EMERGENCY BALLAST CONNECTED TO AN UNSWITCHED CONDUCTOR.
 - STRIP FLUORESCENT LIGHT FIXTURE. SEE SCHEDULE FOR LENGTH.
 - STRIP FLUORESCENT LIGHT FIXTURE. SEE SCHEDULE FOR LENGTH. PROVIDE EMERGENCY BALLAST CONNECTED TO AN UNSWITCHED CONDUCTOR.
 - WALL MOUNTED LIGHT FIXTURE.
 - WALL MOUNTED LIGHT FIXTURE, PROVIDE EMERGENCY BALLAST CONNECTED TO AN UNSWITCHED CONDUCTOR.
 - RECESSED LIGHT FIXTURE
 - RECESSED LIGHT FIXTURE, PROVIDE EMERGENCY BALLAST CONNECTED TO AN UNSWITCHED CONDUCTOR.
 - ROUND LIGHT FIXTURE
 - ROUND EMERGENCY LIGHT FIXTURE
 - WALL MOUNTED LIGHT FIXTURE.
 - WALL MOUNTED EMERGENCY LIGHT FIXTURE.
 - POLE LIGHT 1 HEAD WITH POLE
 - TIME CLOCK
 - PHOTO CONTROL CELL LOCATED 12" ABOVE ROOF FACING NORTH.
 - OCCUPANCY SENSOR. PROVIDE RELAYS AND POWER PACKS AS REQUIRED
 - LED DRIVER
 - EMERGENCY EGRESS LIGHTING WITH OUT FIXTURE HEADS. CONNECT TO AN UNSWITCHED CONDUCTOR.
 - EMERGENCY EGRESS LIGHTING. CONNECT TO AN UNSWITCHED CONDUCTOR.
 - EXTERIOR WALL PACK
 - EMERGENCY EXTERIOR WALL PACK, PROVIDE EMERGENCY BALLAST CONNECTED TO AN UNSWITCHED CONDUCTOR

DEVICES

- SWITCH, TYPE AS INDICATED. +46" AFF
- DOUBLE POLE
- 3-WAY
- 4-WAY
- KEYED
- PILOT LIGHT
- DIMMER
- HORSEPOWER RATED TO THERMAL OVERLOAD
- LOW VOLTAGE
- OCCUPANCY SENSOR
- LOW VOLTAGE, MOMENTARY OVERRIDE
- VACANCY SENSOR
- SUPERSRIPT INDICATES LIGHTS TO BE SWITCHED TOGETHER
- DUAL LEVEL SWITCHING, INSIDE AND OUTSIDE LAMPS OF FIXTURE TO BE SWITCHED SEPARATELY.
- DUAL LEVEL SWITCHING WITH OCCUPANCY SENSOR, INSIDE AND OUTSIDE LAMPS OF FIXTURE TO BE SWITCHED SEPARATELY.
- SINGLE CONVENIENCE OUTLET, +18" AFF UNO
- DUPLEX CONVENIENCE OUTLET, +18" AFF UNO
- FLOOR MOUNT DUPLEX CONVENIENCE OUTLET
- EMERGENCY DUPLEX CONVENIENCE OUTLET, +18" AFF UNO
- SWITCHED DUPLEX CONVENIENCE OUTLET, +18" AFF UNO
- FLOOR MOUNTED SWITCHED DUPLEX CONVENIENCE OUTLET
- FOURPLEX CONVENIENCE OUTLET, +18" AFF UNO
- FLOOR MOUNT FOURPLEX CONVENIENCE OUTLET
- FLOOR MOUNTED CONNECTION POINT, SEE NOTE ABOVE FOR REQUIREMENTS
- FLOOR MOUNTED JUNCTION BOX
- JUNCTION BOX
- WALL MOUNTED PUSH BUTTON, MOUNT AT SWITCH HEIGHT UNO
- WALL MOUNTED PUSH BUTTON, HANDICAPPED MOUNT AT SWITCH HEIGHT UNO
- WALL MOUNTED PUSH BUTTON, MOUNT AT SWITCH HEIGHT UNO
- MOTOR STARTER/CONTACTOR, SIZE/POLES NEMA 1 UNO AS INDICATED
- COMBINATION STARTER AND DISCONNECT, SIZE/POLES, STARTER SIZE AS INDICATED, NEMA 1 UNO
- FUSED DISCONNECT SWITCH, SIZE/POLES, FUSE SIZES AS INDICATED, NEMA 1 UNO
- NON-FUSED DISCONNECT SIZE/ POLES AS INDICATED, NEMA 1 UNO
- THERMOSTAT, +46" AFF PROVIDE CONDUIT, J-BOX, CONDUCTORS AS REQUIRED TO CONTROL ASSOCIATED UNITS. UNO COORDINATE WITH DIVISION 15.
- POWER POLE - DUAL CHANNEL
- TRANSFORMER
- PANELBOARD, SEE SCHEDULE FOR TYPE.
- EQUIPMENT CABINET, SURFACE MOUNTED
- EQUIPMENT CABINET FLUSH MOUNTED
- SURFACE MULTI-OUTLET RACEWAY
- MECHANICAL EQUIPMENT CALL OUT
- KITCHEN EQUIPMENT CALLOUT

NOTE: THIS IS A STANDARD LIST OF COMMONLY USED ELECTRICAL SYMBOLS. SOME OF THE SYMBOLS SHOWN MAY NOT HAVE BEEN USED IN THIS DRAWING PACKAGE.

ONE LINE

- DELTA WYE TRANSFORMER UNO
- PANEL BOARD, SEE SCHEDULE FOR TYPE AND SIZE
- CIRCUIT BREAKER, SIZE AND POLES INDICATED
- FUSE, SIZE AND TYPE INDICATED, PROVIDE FUSE FOR EACH POLE
- INTERRUPTER SWITCH, SIZE AND POLES INDICATED
- FUSED SWITCH, SIZE/POLES AND FUSE SIZE INDICATED
- DRAW OUT CIRCUIT BREAKER, SIZE AND POLES INDICATED
- INDIVIDUAL BREAKER WITH SHUNT TRIP, SIZE AND POLES INDICATED, NEMA 1 UNO
- INDIVIDUAL BREAKER, SIZE AND POLES INDICATED, NEMA 1 UNO
- GROUND FAULT PROTECTION
- TRANSIENT VOLTAGE SURGE SUPPRESSION
- ADJUSTABLE BREAKER SETTINGS (PER SPECIFICATIONS):
L'-LONG TIME
S'-SHORT TIME
I'-INSTANTANEOUS
G'-GROUND FAULT
R'-ENERGY REDUCING MAINTENANCE SWITCH W/STATUS INDICATOR
- SHUNT TRIP COIL
- MOTOR
- DISCONNECT SWITCH, SIZE AND POLES INDICATED, NEMA 1 UNO
- OVERHEAD SERVICE DROP
- GENERATOR SET, MAIN BREAKER SIZE INDICATED
- AUTOMATIC TRANSFER SWITCH (ATS)
- METER AND BASE
- NEUTRAL
- TRANSFORMER
- PAD MOUNT TRANSFORMER

FIRE ALARM

- PULL STATION, +44" AFF WITH PRE-ALARM COVER
- FIRE ALARM HORN, +84" AFF UNO
- FIRE ALARM STROBE, +84" AFF UNO, STROBE INTENSITY INDICATED. 'C' INDICATES CEILING MOUNTED
- FIRE ALARM HORN/STROBE +84" AFF, UNO, STROBE INTENSITY INDICATED. 'C' INDICATES CEILING MOUNTED
- FIRE ALARM BELL, +84" AFF UNO. 'C' INDICATES CEILING MOUNTED
- FIRE ALARM CHIME, +84" AFF UNO. 'C' INDICATES CEILING MOUNTED
- FIRE ALARM CHIME/STROBE, +84" AFF UNO, STROBE INTENSITY INDICATED. 'C' INDICATES CEILING MOUNTED
- SPEAKER STROBE, +84" AFF UNO. 'C' INDICATES CEILING MOUNTED
- END OF LINE RESISTOR
- FLOW SWITCH, PROVIDE MONITOR MODULE AS REQUIRED
- TAMPER SWITCH, PROVIDE MONITOR MODULE AS REQUIRED
- PRESSURE SWITCH, PROVIDE MONITOR MODULE AS REQUIRED
- FIRE SYSTEM ANNUCIATOR, FLUSH MOUNTED +54" UNO
- POST INDICATOR VALVE, PROVIDE MONITOR MODULE AS REQUIRED
- ELECTROMAGNETIC DOOR HOLDER
- RELAY
- CONTROL MODULE
- MONITOR MODULE
- FIRE ALARM KNOX BOX
- FIRE ALARM CONTROL PANEL
- NAC EXTENDER PANEL
- FIRE/SMOKE DAMPER
- LED INDICATOR LIGHT, CEILING MOUNTED UNO
- LED INDICATOR LIGHT WITH TEST SWITCH, CEILING MOUNTED UNO
- DUCT-MOUNTED SMOKE DETECTOR
- SMOKE DETECTOR, CEILING MOUNTED UNO
- H HEAT
I IONIZATION
ID IN DUCT
P PHOTOELECTRIC
R RELAY
WG PROVIDE PROTECTIVE WIRE GUARD
- BS, BR BEAM DETECTOR, SENDER & RECEIVER

COMMUNICATIONS

- TELEPHONE/DATA OUTLET, +18" AFF UNO, FOUR-SQUARE DEEP TYPE BOX WITH SINGLE GANG MUDRING, WITH QUANTITY OF DATA (RD) AND TELEPHONE (FT) CABLES INDICATED
- FLOOR MOUNTED TELEPHONE/DATA OUTLET
- INTERCOM
- CEILING MOUNTED SPEAKER WITH BACKBOX
- WALL MOUNTED SPEAKER, WITH BACKBOX +80" UNO
- VOLUME CONTROL, MOUNT AT SWITCH HEIGHT UNO, FOUR-SQUARE DEEP TYPE BOX WITH SINGLE GANG MUDRING
- TELEVISION OUTLET, +18" AFF UNO, FOUR-SQUARE TYPE BOX WITH SINGLE GANG MUDRING
- CEILING MOUNTED TELEVISION OUTLET
- TELEPHONE TERMINAL BOARD

ELECTRICAL ABBREVIATIONS

A	AMPERES
AC	8" ABOVE BACKSPLASH
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AF	AMP FRAME
AIC	AMPS INTERRUPTING CAPACITY
AT	AMP TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
BD	BOTTOM OF DECK
BS	BOTTOM OF STRUCTURE
C	CEILING MOUNTED
C	CONDUIT
CB	CIRCUIT BREAKER
CF	COMPACT FLUORESCENT
CKT	CIRCUIT
CO	CONDUIT ONLY, PROVIDE PULL-LINE
CT	CURRENT TRANSFORMER
CTL	CONTROL
DC	DIRECT CURRENT
D	DEMOLITION
DEMO	DEMOLITION
DET	DETAIL
DTT	DOUBLE TWIN TUBE
E	EMERGENCY
(E)	EXISTING
EC	ELECTRICAL CONTRACTOR
EL	EMERGENCY LIGHT
F	FUSE
(F)	FUTURE
FACP	FIRE ALARM CONTROL PANEL
G/GND	GROUND
GFI	GROUND FAULT CIRCUIT INTERRUPTER
GFI	GROUND FAULT INTERRUPTER
NH	HAND HOLE
HID	HIGH INTENSITY DISCHARGE
HOA	HAND-OFF-AUTO
HPS	HIGH PRESSURE SODIUM
HVAC	HEATING, VENTILATION, & AIR CONDITIONING
IG	ISOLATED GROUND
IPCO	IDAHO POWER COMPANY
J-BOX	JUNCTION BOX
KA	KILOAMP
KVA	KILO VOLT-AMP
KW	KILOWATT
KWH	KILOWATT HOUR
LCP	LIGHTING CONTROL PANEL
MB	MAIN BREAKER
MBR	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MDP	MAIN DISTRIBUTION PANEL
MLO	MAIN LUGS ONLY
MMC	MODULAR METERING CENTER
MH	METAL HALIDE
MSB	MAIN SWITCH BOARD
MTG	MOUNTING
N	NEUTRAL
(N)	NEW
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OH	OVERHEAD
OS	OCCUPANCY SENSOR
P	POLES
PC	PHOTO-CONTROL
PVC	POLYVINYL CHLORIDE
PWR	POWER
RE:	REFERENCE
REC	RECEPTACLE
(R)	RELOCATED
SF	SQUARE FEET
TBD	TO BE DETERMINED
TDR	TIME DELAY RELAY
TK	TOE KICK
TSP	TWISTED SHIELDED PAIR
TRT	TRIPLE TUBE
TTB	TELEPHONE TERMINAL BOARD
(TYP.)	TYPICAL
UC	UNDERCABINET
UG	UNDERGROUND
U.N.O.	UNLESS NOTED OTHERWISE
V	VOLT
VA	VOLT-AMPERE
W	WATT
WG	WIRE GUARD
WP	WEATHER PROOF/NEMA 3R
PROVIDE/ PROVIDE BY INSTALLED/ INSTALL	PROVIDE AND INSTALL / PROVIDED AND INSTALLED BY / PROVIDE AND INSTALL
NOTE:	THIS IS A STANDARD LIST OF COMMONLY USED ELECTRICAL ABBREVIATIONS. SOME OF THE ABBREVIATIONS SHOWN ABOVE MAY NOT BE USED IN THIS DRAWING PACKAGE.

ELECTRICAL SHEET INDEX

Sheet Number	Sheet Name
E000	ELECTRICAL COVER SHEET
E001	LIGHTING COMPLIANCE REPORT
E002	LIGHTING COMPLIANCE REPORT
E200	1ST FLOOR MECHANICAL POWER / POWER PLAN
E201	ELECTRICAL DEMO / LIGHTING / SPECIAL SYSTEMS PLAN
E202	ROOF ELECTRICAL PLAN
E300	ONE-LINE / DETAILS
E400	ELECTRICAL SCHEDULES

ARCHITECT:



COLE ARCHITECTS | 802 W. BAINBOCK SUIT 208
Boise, ID 83702 | (208) 345-1800

STAMP:



CONSULTANT:



PROJECT INFORMATION:

PROJECT NAME:
**ELKHORN FIRE STATION
REMODEL - SLEEPING
QUARTERS**

CITY OF SUN VALLEY

100 ARROW LEAF RD., SUN VALLEY, ID 83353

REVISIONS:

MARK	DATE	DESCRIPTION
------	------	-------------

PROJECT PHASE | **CD**

PROJECT NUMBER | 15-92

PROJECT MANAGER | R.TeBeau

PROJECT ARCHITECT | R.Stewart

DESIGN | R.TeBeau

DRAWN BY | Author

SHEET NAME:

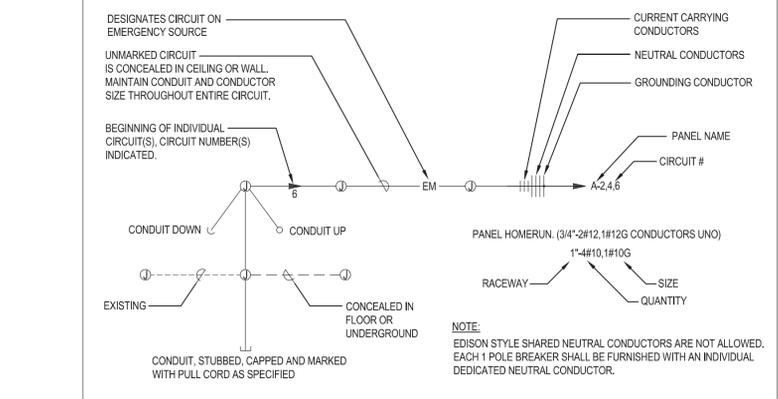
**ELECTRICAL COVER
SHEET**

SHEET NUMBER:

E000

03/01/16

CIRCUITING SYMBOLS



COMcheck Software Version 4.0.2.3
Interior Lighting Compliance Certificate

Project Information
 Energy Code: 2012 IECC
 Project Title: ELKHORN FIRE STATION REMODEL
 Project Type: Alteration
 Construction Site: 100 ARROW LEAF RD, SUN VALLEY, ID 83353
 Owner/Agent:
 Designer/Contractor: Musgrove Engineering P.A., 234 S. Whisperwood Way Boise, ID 83709 (208) 384-0585

Allowed Interior Lighting Power

A Area Category	B Floor Area (#2)	C Allowed Watts /ft2	D Allowed Watts (B X C)
1-Fire Stations-Sleeping quarters	250	0.30	75
2-Common Space Types-Family dining area	620	1.39	728
3-Common Space Types-Corridor / Transition	137	0.70	96
4-Common Space Types-Restroom	82	1	82
5-Common Space Types-Storage	33	0.80	26
Total Allowed Watts =			1007

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Watt	E (C X D)
Fire Stations-Sleeping quarters (250 sq ft.)				
LED 4: GF2: 2X2: Other	1	2	20	40
LED 7: WB1: WALL SCONCE: Other	1	2	9	18
Common Space Types-Family dining area (620 sq ft.)				
LED 3: GF1E: 2X2: Other	1	7	20	140
Common Space Types-Corridor / Transition (137 sq ft.)				
LED 3 copy 1: GF1E: 2X2: Other	1	3	20	60
Common Space Types-Restroom (82 sq ft.)				
LED 5: RC1E: ROUND RECESSED CAN: Other	1	2	26	52
LED 6: WB1: WALL BRACKET: Other	1	1	18	18
Common Space Types-Storage (33 sq ft.)				
LED 1 copy 1: BL1: 4' STRIP: Other	1	1	42	42
LED 2: BL2: 2' STRIP: Other	1	1	34	34
Total Proposed Watts =				424

Project Title: ELKHORN FIRE STATION REMODEL Report date: 03/01/16
 Data filename: P:\Files\2016\16027\CALCS\16027 MEP_Compliance.cck Page 1 of 8

Interior Lighting PASSES
Interior Lighting Compliance Statement
 Compliance Statement: The proposed interior lighting alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2012 IECC requirements in COMcheck Version 4.0.2.3 and to comply with the mandatory requirements listed in the Inspection Checklist.
 Thad Mason Signature: *Thad Mason* Date: 3/1/16

Project Title: ELKHORN FIRE STATION REMODEL Report date: 03/01/16
 Data filename: P:\Files\2016\16027\CALCS\16027 MEP_Compliance.cck Page 2 of 8

② LIGHTING COMPLIANCE REPORT 1
 NTS

COMcheck Software Version 4.0.2.3
Exterior Lighting Compliance Certificate

Project Information
 Energy Code: 2012 IECC
 Project Title: ELKHORN FIRE STATION REMODEL
 Project Type: Alteration
 Exterior Lighting Zone: 0 (Unspecified)
 Construction Site: 100 ARROW LEAF RD, SUN VALLEY, ID 83353
 Owner/Agent:
 Designer/Contractor: Musgrove Engineering P.A., 234 S. Whisperwood Way Boise, ID 83709 (208) 384-0585

Allowed Exterior Lighting Power

A Area/Surface Category	B Quantity	C Allowed Watts / Unit	D Tradable Wattage	E Allowed Watts (B X C)
Total Tradable Watts (a) =				0
Total Allowed Watts =				0
Total Allowed Supplemental Watts (b) =				600

(a) Wattage tradeoffs are only allowed between tradable areas/surfaces.
 (b) A supplemental allowance equal to 500 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

Proposed Exterior Lighting Power
 Exterior Lighting TBD: Exterior lighting zone not specified (see project screen)

Project Title: ELKHORN FIRE STATION REMODEL Report date: 03/01/16
 Data filename: P:\Files\2016\16027\CALCS\16027 MEP_Compliance.cck Page 3 of 8

COMcheck Software Version 4.0.2.3
Inspection Checklist

Energy Code: 2012 IECC
 Requirements: 100.0% were addressed directly in the COMcheck software
 Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req. ID	Plan Review	Complies?	Comments/Assumptions
C103.2 (PR4)1	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment, and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	<input checked="" type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: #201, #300

Additional Comments/Assumptions:

1 | High Impact (Tier 1) | 2 | Medium Impact (Tier 2) | 3 | Low Impact (Tier 3)
 Project Title: ELKHORN FIRE STATION REMODEL Report date: 03/01/16
 Data filename: P:\Files\2016\16027\CALCS\16027 MEP_Compliance.cck Page 4 of 8

ENERGY CODE COMMISSIONING COMPLIANCE NOTES

SECTION 408 SYSTEM COMMISSIONING
 IT SHALL BE THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL BELOW NOTED DOCUMENTS WITHIN 90 DAYS OF CERTIFICATE OF OCCUPANCY:

A. **AS-BUILT DRAWINGS** - DRAWINGS SHALL INCLUDE THE LOCATION AND PERFORMANCE DATA OF ALL PIECES OF MECHANICAL EQUIPMENT.

B. **OPERATING AND MAINTENANCE MANUALS** - MANUALS SHALL INCLUDE THE FOLLOWING:

- SUBMITTAL DATA ON ALL PIECES OF EQUIPMENT REQUIRING MAINTENANCE.
- MANUFACTURER'S OPERATIONS AND MAINTENANCE DATA ON ALL PIECES OF EQUIPMENT. ROUTINE MAINTENANCE ACTIONS SHALL BE CLEARLY IDENTIFIED.
- NAME AND ADDRESS AND PHONE NUMBER OF AT LEAST ONE (1) SERVICE PROVIDER.
- LIGHTING CONTROL SYSTEMS MAINTENANCE AND CALIBRATION INFORMATION INCLUDING WIRING DIAGRAMS, EQUIPMENT AND SYSTEM SCHEMATICS, AND CONTROL SEQUENCES OF OPERATIONS. DESIRED OR FIELD DETERMINED SETPOINTS SHALL BE PERMANENTLY RECORDED ON CONTROL DRAWINGS AT ALL CONTROL DEVICES, OR FOR DIGITAL CONTROL SYSTEMS, IN THE SYSTEM PROGRAMMING INSTRUCTIONS.
- A NARRATIVE ON HOW EACH LIGHTING SYSTEM IS INTENDED TO OPERATE, INCLUDING RECOMMENDED SETPOINTS.

C. **LIGHTING SYSTEM FUNCTIONAL TESTING REQUIREMENTS**

FUNCTIONAL TESTING - ALL AUTOMATIC LIGHTING CONTROL SYSTEM SHALL BE FULLY TESTED TO ENSURE THE CONTROL HARDWARE AND SOFTWARE ARE CALIBRATED, ADJUSTED, PROGRAMMED, AND IN PROPER WORKING CONDITION IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS AND MANUFACTURER'S INSTALLATION INSTRUCTIONS.

THE APPROVED PARTY THAT WILL CONDUCT THE FUNCTIONAL TESTING ON THE AUTOMATIC LIGHTING CONTROL SYSTEM SHALL BE **DEFERRED**

WHERE OCCUPANT SENSORS, TIME SWITCHES, PROGRAMMABLE CONTROLS, PHOTOSENSORS OR DAYLIGHTING CONTROLS ARE INSTALLED, THE FOLLOWING PROCEDURES SHALL BE PERFORMED:

- CONFIRM THAT THE PLACEMENT, SENSITIVITY AND TIME-OUT ADJUSTMENTS FOR OCCUPANT SENSORS YIELD ACCEPTABLE PERFORMANCE.
- CONFIRM THAT THE TIME SWITCHES AND PROGRAMMABLE SCHEDULE CONTROLS ARE PROGRAMMED TO TURN THE LIGHTS OFF.
- CONFIRM THAT THE PLACEMENT AND SENSITIVITY ADJUSTMENTS FOR PHOTOSENSOR CONTROLS REDUCE ELECTRIC LIGHT BASED ON THE AMOUNT OF USABLE DAYLIGHT IN THE SPACE AS SPECIFIED.

D. **FINAL LIGHTING SYSTEM FUNCTIONAL REPORT** - A REPORT OF TEST PROCEDURES AND RESULTS IDENTIFIED AS THE "FINAL LIGHTING CONTROL REPORT" SHALL BE DELIVERED TO THE BUILDING OWNER. THE REPORT SHALL INCLUDE THE FOLLOWING:

- LIST OF FUNCTIONAL TESTS USED DURING THE COMMISSIONING PROCESS ON EACH PIECE OF EQUIPMENT.
- RESULTS OF ALL FUNCTIONAL TESTS ON ALL PIECES OF EQUIPMENT.
- LIST OF DEFICIENCIES FOUND AND CORRESPONDING CORRECTIVE MEASURES EITHER IMPLEMENTED OR PROPOSED ON EACH PIECE OF EQUIPMENT.
- LIST OF EQUIPMENT NOT ABLE TO BE FUNCTIONALLY TESTED DUE TO CURRENT CLIMATE CONDITIONS. THESE PIECES OF EQUIPMENT WILL FUNCTIONALLY TESTED ONCE CLIMATE CHANGES ALLOW.

① COMMISSIONING COMPLIANCE NOTES
 12" = 1'-0"

ARCHITECT:



COLE ARCHITECTS | 802 W. BAINOCK SUIT 208
 Boise, ID 83702 | (208) 345-1800

STAMP:



CONSULTANT:



PROJECT INFORMATION:

PROJECT NAME:
ELKHORN FIRE STATION REMODEL - SLEEPING QUARTERS
 CITY OF SUN VALLEY
 100 ARROW LEAF RD., SUN VALLEY, ID 83353

REVISIONS:

MARK	DATE	DESCRIPTION
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PROJECT PHASE	CD
PROJECT NUMBER	15-92
PROJECT MANAGER	R.TeBeau
PROJECT ARCHITECT	R.Stewart
DESIGN	R.TeBeau
DRAWN BY	AN

SHEET NAME:

LIGHTING COMPLIANCE REPORT

SHEET NUMBER:

E001

03/01/16



PROJECT NAME:
**ELKHORN FIRE STATION
REMODEL - SLEEPING
QUARTERS**

CITY OF SUN VALLEY

100 ARROW LEAF RD., SUN VALLEY, ID 83353

MARK	DATE	DESCRIPTION
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PROJECT PHASE | **CD**

PROJECT NUMBER | 15-92

PROJECT MANAGER | R.TeBeau

PROJECT ARCHITECT | R.Stewart

DESIGN | R.TeBeau

DRAWN BY | AN

LIGHTING COMPLIANCE REPORT

E002

Section # & Req ID	Rough-in Electrical Inspection	Complies?	Comments/Assumptions
C405.2.2 [EL22]	Automatic controls to shut off all building lighting installed in all buildings.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: E201
C405.2.1 [EL23]	Independent lighting controls installed per approved lighting plans and all manual controls readily accessible and visible to occupants.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: E201
C405.2.1 [EL15]	Lighting controls installed to uniformly reduce the lighting load by at least 50%.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Sleeping units. Location on plans/spec: E201
C405.2.4 [EL16]	Daylight zones provided with individual controls that control the lights independent of general area lighting.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C405.2.3 [EL17]	Sleeping units have at least one master switch at the main entry door that controls wired luminaires and switched receptacles.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: E201
C405.2.2 [EL18]	Occupancy sensors installed in required spaces.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: E201
C405.2.2 [EL20]	Primary sidelighted areas are equipped with required lighting controls.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: E201
C405.2.2 [EL21]	Enclosed spaces with daylight area under skylights and rooftop monitors are equipped with required lighting controls.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C405.2.2 [EL4]	Separate lighting control devices for specific uses installed per approved lighting plans.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: E201
C405.3 [EL19]	Fluorescent luminaires with odd numbered lamp configurations that are within 10 feet center to center (if recess mounted) or are within 1 foot edge to edge (if pendant or surface mounted) shall be tandem wired.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C405.4 [EL6]	Exit signs do not exceed 5 watts per face.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: E300
C405.2.3 [EL5]	Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1) | 2 Medium Impact (Tier 2) | 3 Low Impact (Tier 3)

Project Title: ELKHORN FIRE STATION REMODEL
Data filename: P:\Files\2016\16027\CALCS\16027 MEP_Compliance.cck
Report date: 03/01/16
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Section # & Req ID	Final Inspection	Complies?	Comments/Assumptions
C408.2.5 [F116]	Furnished as-built drawings for electric power systems within 30 days of system acceptance.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C303.3 [F117]	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.5.2 [F118]	Interior installed lamp and fixture lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Interior Lighting fixture schedule for values.
C408.3 [F133]	Lighting systems have been tested to ensure proper calibration, adjustment, programming, and operation.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C406 [F134]	Efficient HVAC performance, efficient lighting system, or on-site supply of renewable energy consistent with what is shown the approved plans.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1) | 2 Medium Impact (Tier 2) | 3 Low Impact (Tier 3)

Project Title: ELKHORN FIRE STATION REMODEL
Data filename: P:\Files\2016\16027\CALCS\16027 MEP_Compliance.cck
Report date: 03/01/16
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1 High Impact (Tier 1) | 2 Medium Impact (Tier 2) | 3 Low Impact (Tier 3)

Project Title: ELKHORN FIRE STATION REMODEL
Data filename: P:\Files\2016\16027\CALCS\16027 MEP_Compliance.cck
Report date: 03/01/16
Page 6 of 8

1 LIGHTING COMPLIANCE REPORT 2
NTS



PROJECT NAME:
**ELKHORN FIRE STATION
REMODEL - SLEEPING
QUARTERS**

CITY OF SUN VALLEY
100 ARROW LEAF RD., SUN VALLEY, ID 83353

MARK	DATE	DESCRIPTION
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PROJECT PHASE | CD

PROJECT NUMBER | 15-92

PROJECT MANAGER | R.TeBeau

PROJECT ARCHITECT | R.Stewart

DESIGN | R.TeBeau

DRAWN BY | AN

**1ST FLOOR
MECHANICAL POWER
/ POWER PLAN**

E200

General Notes

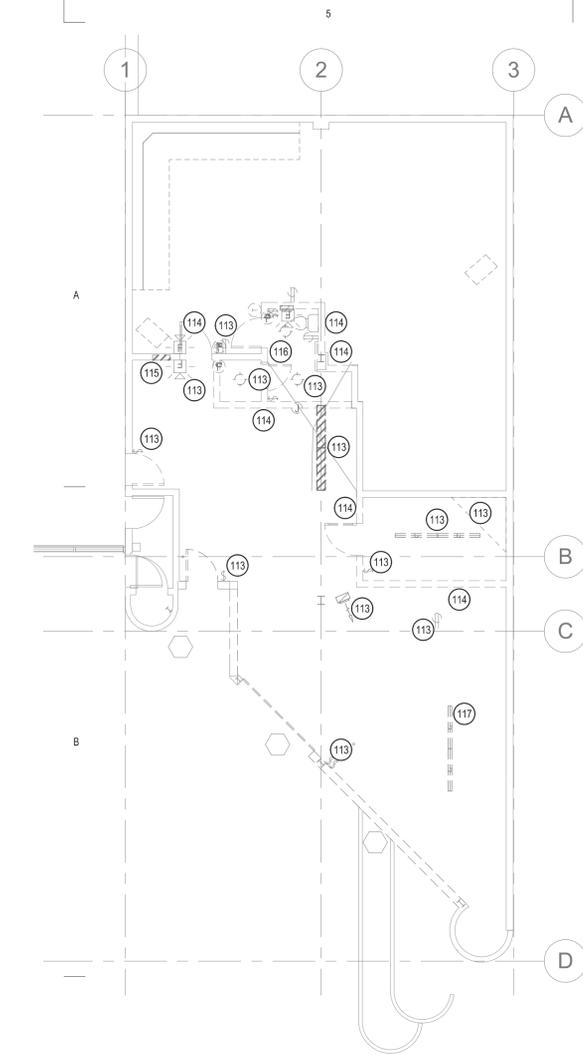
- A. CONTRACTOR SHALL COORDINATE WITH AN UNDERGROUND LOCATING SERVICE PRIOR TO COMMENCING WORK. COORDINATE WITH OTHER SITE DISCIPLINES.
- B. SEE ARCHITECTURAL AND CIVIL DRAWINGS FOR ADDITIONAL INFORMATION.
- C. SITE LIGHTING AND UTILITY EQUIPMENT SHOWN IN APPROXIMATE LOCATION. COORDINATE EXACT LOCATION WITH CIVIL DRAWINGS, PROPERTY LINES AND UTILITY COMPANIES PRIOR TO ROUGH-IN.
- D. PROVIDE PULL-LINE IN ALL EMPTY CONDUITS.

Keynote Notes

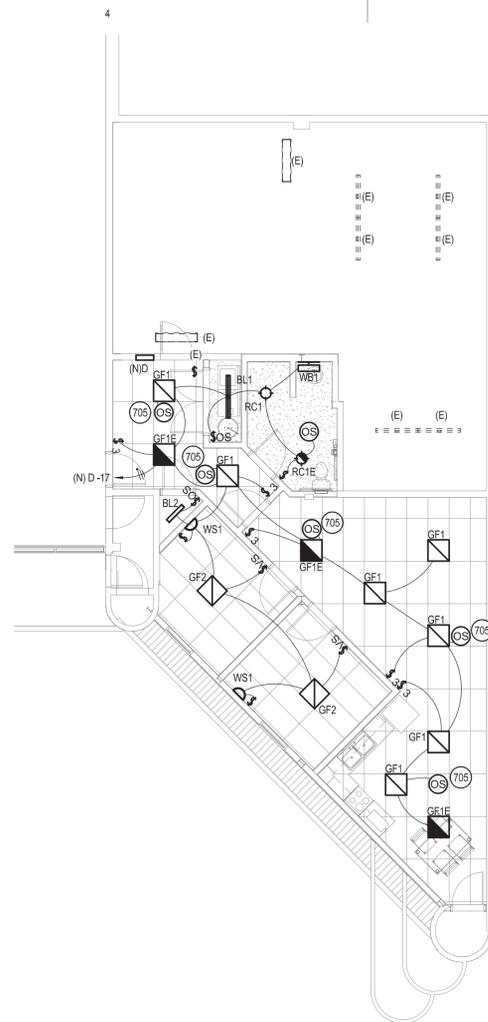
- SYMBOL USED FOR NOTE CALLOUT
- 801 ROUTE CONDUIT(S) AT STRUCTURE LEVEL FOR THE NEW PANEL D FEEDER, (1/2" FOR COMMUNICATIONS AND (2)1" FROM EXISTING PANEL EM TO THE CEILING ABOVE ENTRY 101 FUTURE USE. CORE-DRILL EXISTING WALLS AND FIRE CAULK TO MAINTAIN THE EXISTING FIRE RATING. LABEL EACH CONDUIT WITH THE SOURCE AND DESTINATION AT EACH END.
- 802 CONNECTION FOR RANGE. COORDINATE WITH EQUIPMENT INSTALLER.
- 803 CONNECTION FOR DRYER. COORDINATE WITH EQUIPMENT INSTALLER.
- 902 12" X 12" X 6'D JUNCTION BOX WITH COVER FOR COMMUNICATIONS. ROUTE (2)1" CONDUITS TO THE CEILING SPACE OF THE REMODEL AREA. ROUTE (1/2" TO THE EXISTING TT'B. FOLLOW THE SAME ROUTE AS THE NEW FEEDER FOR (N) PANEL D. KEEP AT LEAST 18" OF SEPARATION.
- 1001 1/2" CONDUIT TO CORRESPONDING MECHANICAL UNIT. BOX, CONDUIT, AND CONDUITORS TO BE PROVIDED BY DIVISION 26. LEAVE 12" SLACK AT BOX AND MECHANICAL UNIT. DIVISION 23 TO MAKE FINAL CONNECTIONS. COORDINATE BOX SIZE AND QUANTITY OF CONDUCTOR(S) WITH DIVISION 23. COORDINATE EXACT LOCATION WITH DIVISION 23.



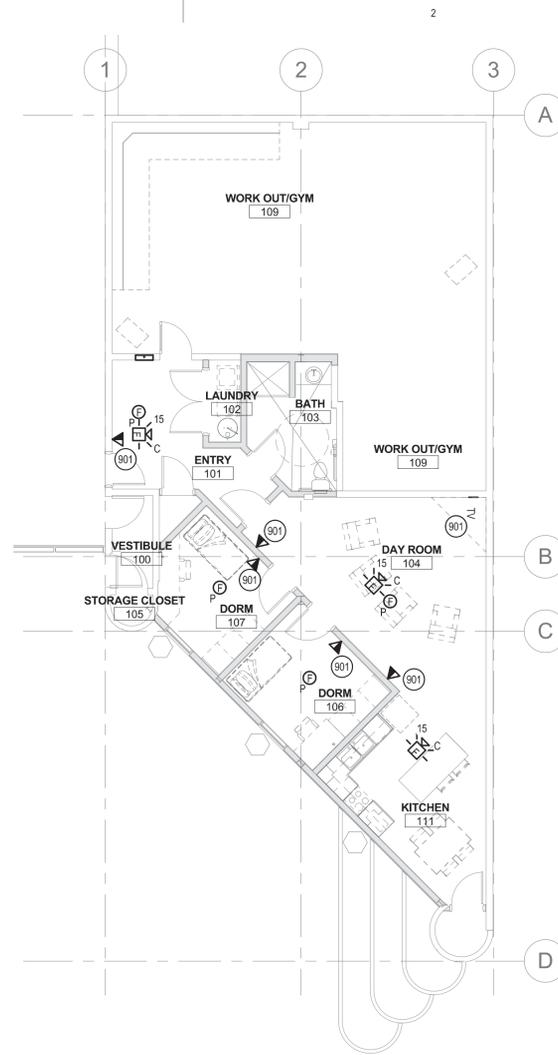
① 1ST FLOOR MECHANICAL POWER / POWER PLAN
1/8" = 1'-0"



1 1ST FLOOR ELECTRICAL DEMO PLAN
1/8" = 1'-0"



2 1ST FLOOR LIGHTING PLAN
1/8" = 1'-0"



3 1ST FLOOR SPECIAL SYSTEMS / FIRE ALARM PLAN
1/8" = 1'-0"

General Notes

- A. THESE DEMOLITION DRAWINGS ARE INTENDED TO ASSIST THE ELECTRICAL CONTRACTOR IN ESTABLISHING AREAS REQUIRING DISCONNECTION, REMOVAL, OR RELOCATION OF ELECTRICAL EQUIPMENT, OUTLETS, WIRING, DEVICES, FIXTURES, ETC. AND MAY NOT INDICATE ALL OUTLETS, EXACT QUANTITIES OR EXTENT OF DEMOLITION AND RECONNECTION WHICH MAY BE REQUIRED. THE ELECTRICAL CONTRACTOR SHALL VISIT THE JOB SITE AND THOROUGHLY EXAMINE ALL REQUIRED DEMOLITION WORK AND INCLUDE ALL LABOR AND INCIDENTALS WHICH MAY BE NECESSARY TO PERFORM DEMOLITION RECONNECTION AND TEMPORARY POWER CONNECTIONS IN THE BID.
- C. ALL EXISTING WALLS AND DEVICES TO REMAIN U.N.O.
- D. THESE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE. THEREFORE THE DIVISION 16 CONTRACTOR SHALL COORDINATE ALL ELECTRICAL EQUIPMENT AND DEVICE LOCATIONS WITH ARCHITECTURAL, MECHANICAL, AND PLUMBING DIVISIONS PRIOR TO ROUGH-IN. REFER TO AND COORDINATE WITH ARCHITECTURAL, MECHANICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL WORK THAT IS REQUIRED BY THE CONTRACTOR.
- E. ALL CONDUIT AND JUNCTION BOXES ARE TO BE CONCEALED IN NEW WALLS, EXISTING FURRED OUT WALLS AND EXISTING ACCESSIBLE CEILINGS USE OF SURFACE MOUNTED RACEWAYS MUST BE APPROVED BY THE ARCHITECT FOR EACH LOCATION. WHERE APPROVED UTILIZE WIREMOLD OR APPROVED EQUAL SURFACE MOUNTED RACEWAYS PAINTED TO MATCH SURROUNDING WALLS.
- F. INSTALL PLENUM RATED FIRE ALARM CONDUCTORS FROM DEVICES INDICATED TO FIRE ALARM CONTROL PANEL OR NAC EXTENDER PANEL(S) AS REQUIRED. STUB 3/4" CONDUIT FROM DEVICE TO VOID ABOVE CEILING. PROVIDE NAC EXTENDER PANEL(S) QUANTITY AS REQUIRED IN LOCATIONS INDICATED AND CIRCUITS AS REQUIRED FOR A COMPLETE INSTALLATION. CIRCUIT THE FIRE ALARM NOTIFICATION AND INITIATION DEVICES PER THE ELECTRICAL SPECIFICATIONS. FURNISH AND INSTALL ALL APPURTENANCES AND PROGRAMMING REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM. REFER TO ELECTRICAL FIRE ALARM SPECIFICATIONS FOR SYSTEM REQUIREMENTS AND SUBMITTAL PROCEDURES.
- G. REFER TO ARCHITECTURAL ELEVATIONS FOR OUTLET HEIGHTS WHERE THE SPECIFIC OUTLET HEIGHT IS NOT INDICATED ON THIS SHEET. REFER TO THE ELECTRICAL LEGEND FOR THE DEFAULT OUTLET HEIGHT WHEN NOT INDICATED ON ELEVATIONS OR ON THIS SHEET.
- H. INSTALL PULL-LINE IN ALL EMPTY CONDUITS FOR FUTURE CABLE PULL.
- I. TERMINATE ALL CONDUITS WITH INSULATED THROAT BUSHING.

Keynote Notes

- SYMBOL USED FOR NOTE CALLOUT
- 113 EXISTING DEVICE TO BE REMOVED. REMOVE CONDUIT, CONDUCTORS, CONNECTIONS AND RELATED DEVICES BACK TO SOURCE. MAINTAIN POWER TO DOWNSTREAM DEVICES TO REMAIN.
- 114 EXISTING WALL TO BE REMOVED. REMOVE ALL DEVICES, CONDUIT, CONDUCTORS, CONNECTIONS AND RELATED DEVICES BACK TO SOURCE. MAINTAIN POWER TO DOWNSTREAM DEVICES TO REMAIN.
- 115 EXISTING PANEL TO BE REMOVED AND REPLACED. REMOVE ALL EXISTING CONDUIT, CONDUCTORS AND UNUSED BRANCH CIRCUITS BACK TO SOURCE. ALL EXISTING CIRCUITS TO REMAIN SHALL BE INTERCEPTED AND EXTENDED TO THE (N) PANEL D.
- 116 EXISTING WATER HEATER TO BE RELOCATED.
- 117 EXISTING LIGHT FIXTURE TO BE RELOCATED.
- 705 CONNECT SUCH THAT EITHER OCCUPANCY SENSOR WILL CONTROL THE LIGHTING IN THIS ROOM.
- 901 STUB 3/4" CONDUIT ABOVE ACCESSIBLE CEILING. TERMINATE WITH INSULATED THROAT BUSHING.

ARCHITECT:

COLE ARCHITECTS

COLE ARCHITECTS | 802 W. BAINBOCK SUIT 208
Boise, ID 83702 | (208) 345-1800

STAMP:



CONSULTANT:



PROJECT INFORMATION:

PROJECT NAME:
**ELKHORN FIRE STATION
REMODEL - SLEEPING
QUARTERS**

CITY OF SUN VALLEY

100 ARROW LEAF RD., SUN VALLEY, ID 83353

REVISIONS:

MARK	DATE	DESCRIPTION
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PROJECT PHASE | **CD**

PROJECT NUMBER | 15-92

PROJECT MANAGER | R.TeBeau

PROJECT ARCHITECT | R.Stewart

DESIGN | R.TeBeau

DRAWN BY | Author

SHEET NAME:

**ELECTRICAL DEMO /
LIGHTING / SPECIAL
SYSTEMS PLAN**

SHEET NUMBER:

E201

03/01/16



PROJECT NAME:
**ELKHORN FIRE STATION
REMODEL - SLEEPING
QUARTERS**

CITY OF SUN VALLEY

100 ARROW LEAF RD., SUN VALLEY, ID 83353

MARK	DATE	DESCRIPTION
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PROJECT PHASE | CD

PROJECT NUMBER | 15-92

PROJECT MANAGER | R.TeBeau

PROJECT ARCHITECT | R.Stewart

DESIGN | R.TeBeau

DRAWN BY | AN

**ROOF ELECTRICAL
PLAN**

E202

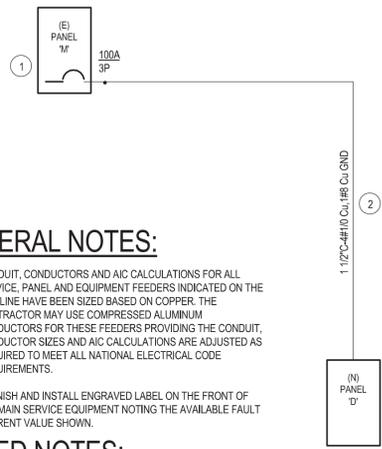
General Notes

- A. REFER TO ARCHITECTURAL ELEVATIONS FOR OUTLET HEIGHTS WHERE THE SPECIFIC OUTLET HEIGHT IS NOT INDICATED ON THIS SHEET. REFER TO THE ELECTRICAL LEGEND FOR THE DEFAULT OUTLET HEIGHT WHEN NOT INDICATED ON ELEVATIONS OR ON THIS SHEET.
- B. INSTALL PULL-LINE IN ALL EMPTY CONDUITS FOR FUTURE CABLE PULL.
- C. TERMINATE ALL CONDUITS WITH INSULATED THROAT BUSHING.
- D. ALL CONDUIT AND JUNCTION BOXES ARE TO BE CONCEALED IN NEW WALLS, EXISTING FURRED OUT WALLS AND EXISTING ACCESSIBLE CEILINGS USE OF SURFACE MOUNTED RACEWAYS MUST BE APPROVED BY THE ARCHITECT FOR EACH LOCATION. WHERE APPROVED UTILIZE WIREMOLD OR APPROVED EQUAL SURFACE MOUNTED RACEWAYS PAINTED TO MATCH SURROUNDING WALLS.

Keynote Notes

- SYMBOL USED FOR NOTE CALLOUT
- 1004 MOUNT RECEPTACLE ON RIGID CONDUIT 12" ABOVE ROOF DECK OR ON MECHANICAL UNIT WHERE APPLICABLE.
- 1005 FIELD COORDINATE DISCONNECT AND CONDENSER LOCATION WITH DIVISION 23 TO MAINTAIN ALL REQUIRED CLEARANCES.

① ELECTRICAL ROOF PLAN
1/8" = 1'-0"



GENERAL NOTES:

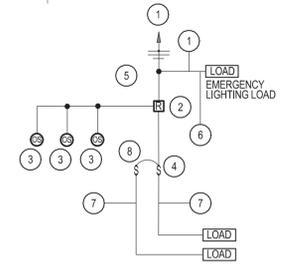
A. CONDUIT, CONDUCTORS AND AIC CALCULATIONS FOR ALL SERVICE, PANEL AND EQUIPMENT FEEDERS INDICATED ON THE ONE-LINE HAVE BEEN SIZED BASED ON COPPER. THE CONTRACTOR MAY USE COMPRESSED ALUMINUM CONDUCTORS FOR THESE FEEDERS PROVIDING THE CONDUIT, CONDUCTOR SIZES AND AIC CALCULATIONS ARE ADJUSTED AS REQUIRED TO MEET ALL NATIONAL ELECTRICAL CODE REQUIREMENTS.

B. FURNISH AND INSTALL ENGRAVED LABEL ON THE FRONT OF THE MAIN SERVICE EQUIPMENT NOTING THE AVAILABLE FAULT CURRENT VALUE SHOWN.

KEYED NOTES:

- # SYMBOL USED FOR NOTE CALLOUT.
- 1. REMOVE EXISTING 2-POLE BREAKER AND REPLACE WITH 3-POLE BREAKER AS INDICATED
- 2. REFER TO E200 FOR CONDUIT ROUTING

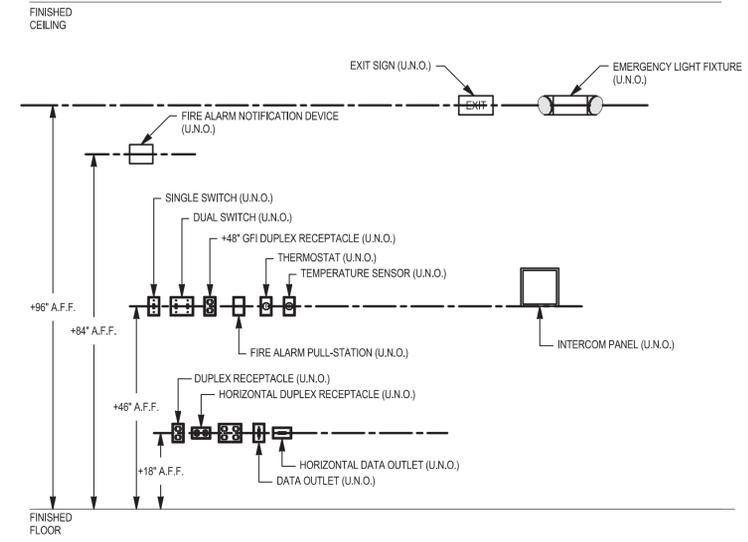
① ONE LINE DETAIL
12" = 1'-0"



DETAIL KEYED NOTES:

- # SYMBOL USED FOR NOTE CALLOUT.
- 1. UNSWITCHED LINE VOLTAGE POWER FEED FROM LOCAL PANEL.
- 2. POWER/RELAY PACK RATED FOR UP TO 3 SENSORS AND 15A LINE VOLTAGE SWITCHING. PROVIDE QUANTITY AS REQUIRED FOR A COMPLETE INSTALLATION.
- 3. LOW VOLTAGE OCCUPANCY SENSOR, UP TO 3 PER POWER PACK. PROVIDE WITH ISOLATED NO/NC AUXILIARY CONTACTS FOR HVAC INTERLOCK. QUANTITY AS INDICATED ON PLANS. LOCATION PER THE MANUFACTURERS RECOMMENDATIONS.
- 4. WALL MOUNTED LINE VOLTAGE SNAP SWITCH(ES). QUANTITY AND LOCATION AS INDICATED ON PLANS.
- 5. LOW VOLTAGE POWER AND CONTROL CONDUCTORS AS REQUIRED FOR A COMPLETE INSTALLATION.
- 6. LINE VOLTAGE SWITCHED LEG FROM RELAY PACK TO LOCAL WALL SWITCHES.
- 7. LINE VOLTAGE SWITCHED LEG FROM SWITCHES TO LIGHTING LOAD.
- 8. SECOND SWITCH FOR DUAL LEVEL LIGHTING WHERE INDICATED ON PLANS.

② OCCUPANCY SENSORS DETAIL
12" = 1'-0"



DETAIL GENERAL NOTES:

- 1. PROVIDE FRAMING AS REQUIRED.
- ③ STANDARD MOUNTING HEIGHT DETAIL
12" = 1'-0"



COLE ARCHITECTS | 802 W. BAINBOCK SUIT 208
Boise, ID 83702 | (208) 345-1800



PROJECT INFORMATION:

PROJECT NAME:
**ELKHORN FIRE STATION
REMODEL - SLEEPING
QUARTERS**

CITY OF SUN VALLEY

100 ARROW LEAF RD., SUN VALLEY, ID 83353

REVISIONS:

MARK	DATE	DESCRIPTION
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PROJECT PHASE	CD
PROJECT NUMBER	15-92
PROJECT MANAGER	R.TeBeau
PROJECT ARCHITECT	R.Stewart
DESIGN	R.TeBeau
DRAWN BY	AN

SHEET NAME:

ONE-LINE / DETAILS

SHEET NUMBER:

E300

LIGHTING FIXTURE SCHEDULE								
Type Mark	Description	Mounting	Wattage Comments	Lamp	Manufacturer	Model	Or Equal By	Notes
BL1	4' LENSED LED STRIPLIGHT, 3000 LUMENS, 35K COLOR TEMP	SURFACE	42W	42W LED, 3000 LUMENS	LITHONIA	ZL2N-L48-3000LM-MDD-MVOLT-35K-80CRI-WH	LIGHTOLIER/LITHONIA /H.E. WILLIAMS	○
BL2	2' LENSED LED STRIP LGHT, 2000 LUMENS, 35K COLOR TEMP	SURFACE	34W	34W LED, 2000 LUMENS	LITHONIA	ZL2N-L24-2000LM-MDD-MVOLT-35K-80CRI-WH	LIGHTOLIER/LITHONIA /H.E. WILLIAMS	○
EL1	ARCHITECTURAL EMERGENCY LIGHTING UNIT, INTEGRAL BATTERY, COLD-WEATHER TYPE, DARK BRONZE FINISH	WALL MOUNTED +9'-0" AFF	12W	12W	LITHONIA	AFN-DB-EXT	LIGHTOLIER/LITHONIA /H.E. WILLIAMS	○
GF1	2'X2' VT SERIES VOLUMETRIC RECESSED LED TROFFER	CEILING RECESSED	20W	20W LED, 2000 LUMENS	LITHONIA	2VTL2-20-ADP-EZ1-LP835	LIGHTOLIER/LITHONIA /H.E. WILLIAMS	○
GF1E	2'X2' VT SERIES VOLUMETRIC RECESSED LED TROFFER	CEILING RECESSED	20W	20W LED, 2000 LUMENS	LITHONIA	2VTL2-20-ADP-EZ1-LP835	LIGHTOLIER/LITHONIA /H.E. WILLIAMS	○
GF2	2'X2' VT SERIES VOLUMETRIC RECESSED LED TROFFER	CEILING RECESSED	20W	20W LED, 2000 LUMENS	LITHONIA	2VTL2-20-ADP-EZ1-LP835	LIGHTOLIER/LITHONIA /H.E. WILLIAMS	○
RC1	ROUND RECESSED, 6" APERTURE, DIMMING	CEILING RECESSED	26W	26W LED, 1500 LUMENS	LITHONIA	LDN6-35/15-L06-AR-120-EL	LIGHTOLIER/PORTFO LIO	○
RC1E	ROUND RECESSED, 6" APERTURE, WITH EMERGENCY BATTERY PACK, DIMMING	CEILING RECESSED	26W	26W LED, 1500 LUMENS	LITHONIA	LDN6-35/15-L06-AR-120-EL	LIGHTOLIER/PORTFO LIO	○
WB1	2' WALL BRACKET	WALL MOUNTED	17.5W	17.5W LED, 1796 LUMENS	LITHONIA	WL2-18L-EZ1-LP835	LIGHTOLIER/LITHONIA /H.E. WILLIAMS	○
WS1	WALL SCONCE	WALL MOUNTED	9W	9W LED, 803 LUMENS	MODERN FORMS	WS-11807-WT	LIGHTOLIER/LITHONIA /H.E. WILLIAMS	○

LIGHTING FIXTURE SCHEDULE NOTES	
1	SUBSTITUTIONS WILL BE ALLOWED IF SUBMITTED PRIOR TO BID DATE BY THE GREATER OF 7 BUSINESS DAYS OR THE TIME PERIOD SPECIFIED BY DIVISION 1 SPECIFICATIONS, AND IF DEEMED EQUAL BY THE ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING SUBSTITUTED MEET OR EXCEED THE SPECIFICATIONS OF THE FIXTURES SPECIFIED.

Branch Panel: (E) M1													
Location: Space 7				Volts: 120/208 Wye				A.I.C. Rating: Mains Type: Mains Rating: 100 A MCB Rating:					
Supply From:				Phases: 3									
Mounting: Surface				Wires: 4									
Enclosure: Type 1													
Notes:													
CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT			
1	EXISTING	20 A	1	0 VA	0 VA			1	20 A	EXISTING	2		
3	EXISTING	20 A	1		0 VA	0 VA		1	20 A	EXISTING	4		
5	EXISTING	20 A	1			0 VA	0 VA	1	20 A	EXISTING	6		
7	EXISTING	20 A	1	0 VA	0 VA			1	20 A	EXISTING	8		
9	EXISTING	20 A	1		0 VA	0 VA		1	20 A	EXISTING	10		
11	EXISTING	20 A	1			0 VA	0 VA	1	20 A	EXISTING	12		
13	BLANK	--	--	0 VA	0 VA			1	20 A	EXISTING	14		
15	EXISTING	40 A	2		0 VA	0 VA		1	20 A	EXISTING	16		
17	--	--	--			0 VA	0 VA	1	20 A	EXISTING	18		
19	EXISTING	35 A	3	0 VA	0 VA			1	20 A	EXISTING	20		
21	--	--	--		0 VA	0 VA		1	20 A	EXISTING	22		
23	--	--	--			0 VA	0 VA	1	20 A	EXISTING	24		
25	EXISTING	60 A	3	0 VA	8444...			3	100 A	(N) D	26		
27	--	--	--			0 VA	7340...	--	--	--	28		
29	--	--	--			0 VA	7340...	0 VA	5600...	--	30		
31	(E)ROOF AC	60 A	2	0 VA	0 VA			3	20 A	(E)WASHER	32		
33	--	--	--		0 VA	0 VA		--	--	--	34		
35	BLANK	--	--			0 VA	0 VA	--	--	--	36		
Total Load:				8444 VA	7340 VA	5600 VA							
Total Amps:				73 A	63 A	47 A							
Legend:													

Branch Panel: (N) D													
Location: Space 13				Volts: 120/208 Wye				A.I.C. Rating: Mains Type: Mains Rating: 100 A MCB Rating:					
Supply From: (E) M1				Phases: 3									
Mounting: FLUSH				Wires: 4									
Enclosure: Type 1													
Notes:													
ALL CIRCUITS INDICATED AS (E) SAHLL BE INTERCEPTED AND EXTENDED FROM THE (D)PANEL D TO THE (N)PANEL D													
CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT			
1	HOOD, REC-COUNTER	20 A	1	1080...	720 VA			1	20 A	MICROWAVE	2		
3	RANGE	50 A	2		250 VA	540 VA		1	20 A	REC-COUNTER GENERAL	4		
5	--	--	--			250 VA	180 VA	1	20 A	DISPOSAL	6		
7	REC-DISHWASHER	20 A	1	540 VA	720 VA			1	20 A	REC-REFRIGERATOR	8		
9	REC-DORMS	20 A	1		720 VA	720 VA		1	20 A	DAY ROOM, TV	10		
11	ERV-1	20 A	1			132 VA	180 VA	1	20 A	REC-BATH, MECHANICAL	12		
13	REC-WASHER	20 A	1	180 VA	250 VA			2	20 A	REC-DRYER	14		
15	REC-ROOF	20 A	1		180 VA	250 VA		--	--	--	16		
17	LTS-REMODEL AREA	20 A	1			662 VA	2250...	2	30 A	WATER HEATER	18		
19	Spare	20 A	1	0 VA	2250...			--	--	--	20		
21	HP-1	15 A	2		988 VA	988 VA		2	15 A	HP-2	22		
23	--	--	--			988 VA	988 VA	--	--	--	24		
25	HP-3	15 A	2	1352...	1352...			2	15 A	HP-4	26		
27	--	--	--		1352...	1352...		--	--	--	28		
29	(E) HEATER - WORKOUT/GYM	30 A	2			0 VA	0 VA	1	20 A	(E) WORKOUT/GYM LTS	30		
31	--	--	--	0 VA	0 VA			1	20 A	(E) N & E WALL REC	32		
33	(E) HEATER - WORKOUT/GYM	30 A	2		0 VA	0 VA		1	20 A	(E) TV/STEREO CABINET	34		
35	--	--	--			0 VA	0 VA	1	20 A	(E) PUMP	36		
37	Spare	20 A	1	0 VA	0 VA			1	20 A	Spare	38		
39	Spare	20 A	1		0 VA	0 VA		1	20 A	Spare	40		
41	Spare	20 A	1			0 VA	0 VA	1	20 A	Spare	42		
Total Load:				8444 VA	7340 VA	5630 VA							
Total Amps:				73 A	63 A	47 A							
Legend:													

Branch Panel: (E) M1													
Location: Space 7				Volts: 120/208 Wye				A.I.C. Rating: Mains Type: Mains Rating: 100 A MCB Rating:					
Supply From:				Phases: 3									
Mounting: Surface				Wires: 4									
Enclosure: Type 1													
Notes:													
CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT			
1	EXISTING	20 A	1	0 VA	0 VA			1	20 A	EXISTING	2		
3	EXISTING	20 A	1		0 VA	0 VA		1	20 A	EXISTING	4		
5	EXISTING	20 A	1			0 VA	0 VA	1	20 A	EXISTING	6		
7	EXISTING	20 A	1	0 VA	0 VA			1	20 A	EXISTING	8		
9	EXISTING	20 A	1		0 VA	0 VA		1	20 A	EXISTING	10		
11	EXISTING	20 A	1			0 VA	0 VA	1	20 A	EXISTING	12		
13	BLANK	--	--	0 VA	0 VA			1	20 A	EXISTING	14		
15	EXISTING	40 A	2		0 VA	0 VA		1	20 A	EXISTING	16		
17	--	--	--			0 VA	0 VA	1	20 A	EXISTING	18		
19	EXISTING	35 A	3	0 VA	0 VA			1	20 A	EXISTING	20		
21	--	--	--		0 VA	0 VA		1	20 A	EXISTING	22		
23	--	--	--			0 VA	0 VA	1	20 A	EXISTING	24		
25	EXISTING	60 A	3	0 VA	8444...			3	100 A	(N) D	26		
27	--	--	--			0 VA	7340...	--	--	--	28		
29	--	--	--			0 VA	7340...	0 VA	5600...	--	30		
31	(E)ROOF AC	60 A	2	0 VA	0 VA			3	20 A	(E)WASHER	32		
33	--	--	--		0 VA	0 VA		--	--	--	34		
35	BLANK	--	--			0 VA	0 VA	--	--	--	36		
Total Load:				8444 VA	7340 VA	5600 VA							
Total Amps:				73 A	63 A	47 A							
Legend:													

Branch Panel: (N) D													
Location: Space 13				Volts: 120/208 Wye				A.I.C. Rating: Mains Type: Mains Rating: 100 A MCB Rating:					
Supply From: (E) M1				Phases: 3									
Mounting: FLUSH				Wires: 4									
Enclosure: Type 1													
Notes:													
ALL CIRCUITS INDICATED AS (E) SAHLL BE INTERCEPTED AND EXTENDED FROM THE (D)PANEL D TO THE (N)PANEL D													
CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT			
1	HOOD, REC-COUNTER	20 A	1	1080...	720 VA			1	20 A	MICROWAVE	2		
3	RANGE	50 A	2		250 VA	540 VA		1	20 A	REC-COUNTER GENERAL	4		
5	--	--	--			250 VA	180 VA	1	20 A	DISPOSAL	6		
7	REC-DISHWASHER	20 A	1	540 VA	720 VA			1	20 A	REC-REFRIGERATOR	8		
9	REC-DORMS	20 A	1		720 VA	720 VA		1	20 A	DAY ROOM, TV	10		
11	ERV-1	20 A	1			132 VA	180 VA	1	20 A	REC-BATH, MECHANICAL	12		
13	REC-WASHER	20 A	1	180 VA	250 VA			2	20 A	REC-DRYER	14		
15	REC-ROOF	20 A	1		180 VA	250 VA		--	--	--	16		
17	LTS-REMODEL AREA	20 A	1			662 VA	2250...	2	30 A	WATER HEATER	18		
19	Spare	20 A	1	0 VA	2250...			--	--	--	20		
21	HP-1	15 A	2		988 VA	988 VA		2	15 A	HP-2	22		
23	--	--	--			988 VA	988 VA	--	--	--	24		
25	HP-3	15 A	2	1352...	1352...			2	15 A	HP-4	26		
27	--	--	--		1352...	1352...		--	--	--	28		
29	(E) HEATER - WORKOUT/GYM	30 A	2			0 VA	0 VA	1	20 A	(E) WORKOUT/GYM LTS	30		
31	--	--	--	0 VA	0 VA			1	20 A	(E) N & E WALL REC	32		
33	(E) HEATER - WORKOUT/GYM	30 A	2		0 VA	0 VA		1	20 A	(E) TV/STEREO CABINET	34		
35	--	--	--			0 VA	0 VA	1	20 A	(E) PUMP	36		
37	Spare	20 A	1	0 VA	0 VA			1	20 A	Spare	38		
39	Spare	20 A	1		0 VA	0 VA		1	20 A	Spare	40		
41	Spare	20 A	1			0 VA	0 VA	1	20 A	Spare	42		
Total Load:				8444 VA	7340 VA	5630 VA							
Total Amps:				73 A	63 A	47 A							
Legend:													

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