PROJECT:

REMODEL AND ADDITION TO SCIF (SENSITIVE COMPARTMENTED INFORMATION FACILITY) LOCATED IN THE OGDEN DEFENSE DEPOT WAREHOUSE JLTC FACILITY

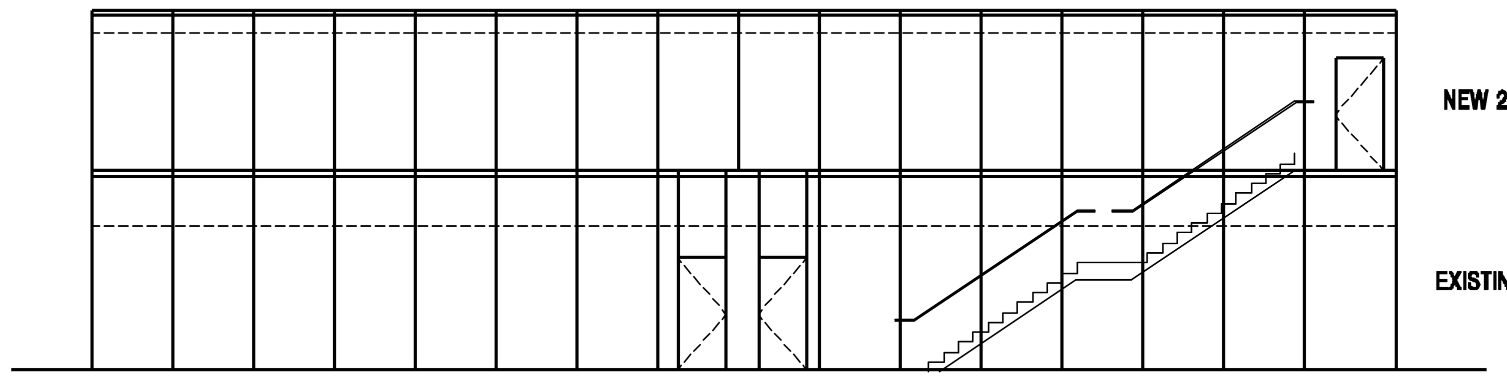
FOR THE

UTAH NATIONAL GUARD

OGDEN, UTAH

CONSTRUCTION DOCUMENTS - SEPT. 8, 2004

DFCM PROJECT NO. 03220480



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contact: Newt Peterson

ELECTRICAL

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Salt Lake City, Utah 84101
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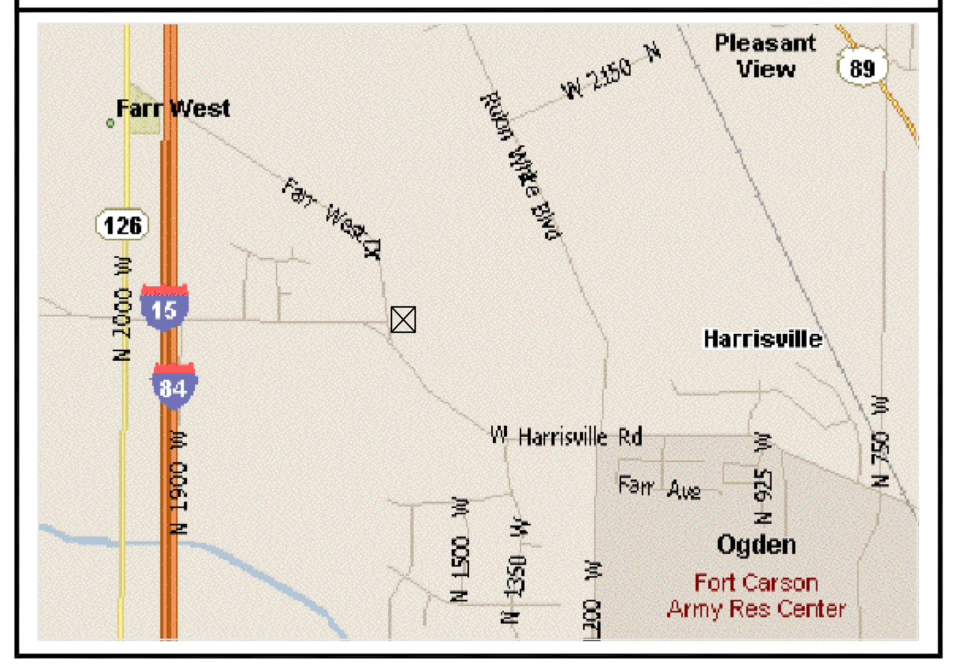
VICINITY MAP



ABBREVIATIONS

#	NUMBER	EXT.	EXTERIOR	O.C.	ON CENTER
@	AT	E.W.C.	ELECTRIC WATER COOLER	O.D.	OUTSIDE DIAMETER
℄	CENTER LINE	F.D.	FLOOR DRAIN	O.F.	OUTSIDE FACE
Ø	DIAMETER	FDN.	FOUNDATION	O.H.	OVERHEAD
L	ANGLE	FDTN.	FOUNDATION	OHD	OVERHEAD DOOR
3L	THREE LAYERS	F.E.	FIRE EXTINGUISHER	OPP.	OPPOSITE
A.B.	ANCHOR BOLT	F.E.C.	FIRE EXTINGUISHER CABINET	O.W.S.J.	OPEN WEB STEEL JOIST
ABV.	ABOVE	F.F.	FINISH FLOOR	PART.	PARTITION
ADJ.	ADJUSTABLE	FIN.	FINISH	P.C.F.	POUNDS PER CUBIC FOOT
A.F.F.	ABOVE FINISH FLOOR	FLR.	FLOOR	PERP.	PERPENDICULAR
A.I.A.	AMERICAN INSTITUTE OF ARCH.	FT.	FEET	PL.	PLATE
ALUM.	ALUMINUM	FTG.	FOOTING	P.L.F.	POUNDS PER LINEAL FOOT
APPROX.	APPROXIMATE	GA.	GAGE/GAUGE	PNTD.	PAINTED
ARCH.	ARCHITECTURAL	GAL.	GALLON	PROT.	PROTECTION
A.S.T.M.	AMERICAN SOCIETY FOR TESTING MATERIALS	GALV.	GALVANIZED	P.S.F.	POUNDS PER SQUARE FOOT
D.B.A.	DEFORMED BAR ANCHOR	GFCI	GROUND FAULT CIRCUIT INTREPETER	P.S.I.	POUNDS PER SQUARE INCH
BD.	BOARD	GPM	GALLONS PER MINUTE	QTY.	QUANTITY
BITUM.	BITUMINOUS	GND.	GROUND	(R)	RELOCATE - SAVE
BLDG.	BUILDING	GOVT.	GOVERNMENT	RD.	ROOF DRAIN
BM.	BENCHMARK	GWB.	GYPSUM WALL BOARD	RAD.	RADIUS
B.O.	BOTTOM OF	GYP. BD.	GYPSUM WALL BOARD	REINF.	REINFORCED
BOT.	BOTTOM	HC.	HANDICAPPED	REQ'D	REQUIRED
B.P.	BASE PLATE	HDW.	HARDWARE	RM.	ROOM
BRG.	BEARING	HM.	HOLLOW METAL	R.O.	ROUGH OPENING
BTWN.	BETWEEN	HORIZ.	HORIZONTAL	SCHED.	SCHEDULE
CER.	CERAMIC	HR.	HOUR	S.D.I.	STEEL DECK INSTITUTE
C.J.	CONSTRUCTION JOINT	H.S.A.	HEADED STUD ANCHOR	SHR.	SHOWER
CLG.	CEILING	HT.	HEIGHT	SHT.	SHEET
CLR.	CLEAR	HVAC	HEATING/VENTILATION/ AIR CONDITIONING	SIM.	SIMILAR
CMU	CONCRETE MASONRY UNIT	HYD	HYDRANT	S.J.I.	STEEL JOIST INSTITUTE
COL.	COLUMN	I.D.	INSIDE DIAMETER	SPEC.	SPECIFICATION
CONC.	CONCRETE	I.F.	INSIDE FACE	STC	SOUND TRANSMISSION COEFF.
CONT.	CONTINUOUS	IN.	INCHES	STD.	STANDARD
CONST.	CONSTRUCTION	INFO.	INFORMATION	STIFF.	STIFFENER
COORD.	COORDINATE	INSUL.	INSULATION	STR.	STRUCTURAL
C.P.	CAP PLATE	LAV.	LAVATORY	SUPER.	SUPERVISER
C.T.J.	CONTRACTION JOINT	LT.	LIGHT	SUSP.	SUSPENDED
DBL.	DOUBLE	LT. WT.	LIGHT WEIGHT	THRU	THROUGH
DEPT	DEPARTMENT	MAINT.	MAINTENANCE	T.O.	TOP OF
DET.	DETAIL	MANUF.	MANUFACTURER	T.O.A.	TOP OF ASPHALT
DIA.	DIAMETER	MAX.	MAXIMUM	T.O.C.	TOP OF CURB
DTL.	DETAIL	MAT.	MATERIAL	T.O.F.	TOP OF FOOTING
DWGS.	DRAWINGS	M.C.J.	MASONRY CONTROL JOINT	T.O.S.	TOP OF SLAB OR SIDEWALK
EA.	EACH	MECH.	MECHANICAL	T.O.W.	TOP OF WALL
E.F.	EACH FACE	MFR.	MANUFACTURER	TYP.	TYPICAL
E.J.	EXPANSION JOINT	MIN.	MINIMUM	U.N.O.	UNLESS NOTED OTHERWISE
EL.	ELEVATION	MISC.	MISCELLANEOUS	VCT	VINYL COMPOSITION TILE
ELEV.	ELEVATION	M.O.	MASONRY OPENING	VERT.	VERTICAL
EQ.	EQUAL	MTL.	METAL	VEST.	VESTIBULE
E.S.	EACH SIDE	(N)	NEW	VNR.	VENEER
E.W.	EACH WAY	N.I.C.	NOT IN CONTRACT	W/	WITH
(E)	EXISTING	NO.	NUMBER	WD.	WOOD
EXPAN.	EXPANSION	N.T.S.	NOT TO SCALE	W.W.F.	WELDED WIRE FABRIC

MATERIALS LEGEND / SYMBOLS

- DOOR NUMBER
- WINDOW NUMBER
- FIXTURE TAG
- REVISION TAG
- ELEVATION
- CENTER LINE
- DIAMETER
- KEY NOTE
- DETAIL
- BUILDING OR WALL ELEVATION
- WALL SECTION
- BUILDING SECTION
- EARTH
- GRAVEL
- CONCRETE
- BRICK
- CONCRETE MASONRY UNIT
- BATT INSULATION
- RIGID INSULATION
- ROUGH WOOD FRAMING (CONTINIOUS)
- FINISH WOOD
- PLYWOOD
- SAND, MORTAR, GYPSUM BOARD
- WOOD BLOCKING
- ALUMINUM (LARGE SCALE)
- STEEL (LARGE SCALE)
- QUARRY / CERAMIC TILE
- STEEL (SMALL SCALE)
- BITUMINOUS PAVING

PROJECT GENERAL NOTES

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE 2000 INTERNATIONAL BUILDING CODE (I.B.C.). THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL SUB CONTRACTORS TO MEET THESE REQUIREMENTS.
2. THE CONTRACTOR SHALL BE RESPONSIBLE TO FIELD VERIFY ALL EXISTING CONDITIONS, UTILITIES, MEASUREMENTS, CONNECTIONS, ETC.
3. THE CONTRACTOR SHALL COMPLY WITH ALL NATIONAL, STATE, LOCAL, AND RELATED CODES AND STANDARD CONSTRUCTION PRACTICES.
4. CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH GENERAL ENERGY NOTES AND/OR MODEL ENERGY CODE.
5. CONTRACTOR SHALL REPORT ANY DISCREPANCIES IN THE PLANS TO THE ARCHITECT PRIOR TO COMMENCING RELATED WORK.

1A. IF CONTRACTOR SELECTS ALTERNATE OPTIONS, CONTRACTOR IS RESPONSIBLE TO COORDINATE CHANGE THROUGHOUT PLANS.

4A. ARCHITECT IS SOLE INTERPRETER OF THE CONSTRUCTION DOCUMENT DRAWINGS. ARCHITECT IS TO BE CONTACTED FOR MISSING OR UNCLEAR INFORMATION ON THESE DOCUMENTS REQUIRING FURTHER INFORMATION.

5A. CONTRACTOR IS RESPONSIBLE FOR ALL DETAILS AND INFORMATION IN THE CONTRACT DOCUMENTS WHETHER REFERENCED OR NOT.

6A. ALL WALLS. ARE SOUND WALLS U.N.O. A SOUND WALL SHALL BE PROVIDED WITH SOUND INSULATION NO EXCEPTIONS.

19. THE CONTRACTOR SHALL COORDINATE AND INSTALL SOLID BLOCKING FOR THE INSTALLATION OF ALL FIXTURE, CABINETS, EQUIPMENT, FINISH HARDWARE, ETC. THAT REQUIRE SUCH.

21. COORDINATE WITH MECHANICAL AND PLUMBING PLANS FOR ALL EQUIPMENT AND FIXTURE LOCATIONS. COORDINATE WITH MECHANICAL AND PLUMBING FIXTURE SCHEDULES. COORDINATE WITH MECHANICAL AND PLUMBING KEY NOTES, INTERNATIONAL BUILDING CODE AND RELATED CODES FOR INSTALLATION REQUIREMENTS.

22. COORDINATE WITH ELECTRICAL PLANS FOR ALL ELECTRICAL SWITCHES, SCHEMATIC WIRING, EQUIPMENT AND FIXTURE LOCATIONS. COORDINATE WITH ELECTRICAL FIXTURE SCHEDULES. COORDINATE WITH ELECTRICAL KEY NOTES, INTERNATIONAL BUILDING CODE AND RELATED CODES FOR INSTALLATION REQUIREMENTS.

23. PROVIDE CAULKING AT INTERIOR AND EXTERIOR AT ALL JOINTS BETWEEN DISSIMILAR MATERIALS WITH CONTINUOUS BEAD OF SILICON BASE CAULK.

ALTERNATE - EXISTING STAIR TO BE MODIFIED TO MEET 1994 UBC CODE OTHERWISE IF ALL NEW STAIRS REPLACE EXISTING USE 2000 IBC AS FOLLOWS:

16. STAIR CONSTRUCTION SHALL MEET THE FOLLOWING REQUIREMENTS. SEE I.B.C. SECTION 1003.3.3.

A) THE MINIMUM STAIRWAY WIDTH SHALL NOT BE LESS THAN THE LARGEST WIDTH REQUIRED BY ONE OF THE FOLLOWING: 36" FOR OCCUPANT LOADS LESS THAN 50, OTHERWISE 44" (IBC 1003.3.3.1). WIDTH BY CALCULATION OF OCCUPANT LOADS SERVED MULTIPLIED BY THE FACTORS IN TABLE 1003.2.3, OR IF STAIRWAY IS REQUIRED FOR ACCESSIBLE EGRESS THEN IT SHALL BE 48" CLEAR WIDTH MINIMUM EXCEPT AS PERMITTED IN IBC 1003.2.13.2.
FOR ADDITION WIDTH REQUIREMENTS OR FOR SPIRAL, CIRCULAR, WINDING STAIRS, ETC. REQUIREMENTS SEE I.B.C. SECTION 1003.3.3.3 EXCEPTIONS.

B) HANDRAILS MAY PROJECT INTO THE REQUIRED WIDTH A DISTANCE OF 4 1/2" FROM EACH SIDE OF A STAIRWAY (IBC 1003.3.3.11.7). FOR ADDITION WIDTH REQUIREMENTS OR FOR SPIRAL, CIRCULAR, WINDING STAIRS, ETC. REQUIREMENTS SEE I.B.C. SECTION 1003.3.3.3 EXCEPTIONS.

C) THE MAXIMUM STAIR RISER HEIGHT SHALL BE NOT LESS THAN 4" AND SHALL NOT EXCEED 7" AND THE MINIMUM STAIR TREAD DEPTH SHALL BE 11" EXCEPT AS PERMITTED, SEE THE I.B.C. 1003.3.3.3 EXCEPTIONS. THE TREAD DEPTH SHALL BE MEASURED HORIZONTALLY BETWEEN THE VERTICAL PLANES OF THE FOREMOST PROJECTION OF ADJACENT TREADS. THE GREATEST RISER HEIGHT OR TREAD DEPTH SHALL NOT EXCEED THE SMALLEST BY MORE THAN 3/8". SEE I.B.C. SECTION 1003.3.3.3.1

D) LANDINGS: EVERY LANDING SHALL HAVE A DIMENSION NOT LESS THAN THE STAIRWAY. EVERY LANDING SHALL HAVE A MINIMUM DIMENSION OF 36 INCHES MEASURED IN THE DIRECTION OR TRAVEL. (I.B.C. 1003.3.3.4) FOR LANDINGS WITH ADJOINING DOORS, SEE I.B.C. 1000.3.3.3.4 EXCEPTION 2.

D) A FLIGHT OF STAIRS SHALL HAVE A MAXIMUM VERTICAL RISE OF 12'. IBC 1003.3.3.6

E) HEADROOM: EVERY STAIRWAY SHALL HAVE A MINIMUM HEADROOM CLEARANCE IN ALL PARTS OF THE STAIR OF NOT LESS THAN 6 FEET 8 INCHES. SUCH CLEARANCES SHALL BE MEASURED VERTICALLY FROM THE SLOPED PLANE ADJOINING THE TREAD NOSING OR FROM THE FLOOR SURFACE OF THE LANDING. (IBC 1003.3.3.2)

F) PROVIDE 5/8" TYPE-X GYPSUM BOARD ON THE UNDERSIDE OF ENCLOSED STAIRWAYS. IBC 1005.3.2.2

17. HANDRAILS SHALL MEET THE FOLLOWING REQUIREMENTS. SEE I.B.C. SECTION 1003.3.3.11.

A) HANDRAILS MOUNTED A MINIMUM OF 34" AND A MAXIMUM OF 38" ABOVE THE NOSING OF THE TREAD SHALL BE PROVIDED ON EACH SIDES OF STAIRWAYS UNLESS EXCEPTED PER I.B.C. 1003.3.3.11. HANDRAILS SHALL RETURN TO A WALL, GUARD OR THE WALKING SURFACE OR SHALL BE CONTINUOUS TO THE HANDRAIL OF AN ADJACENT STAIR FLIGHT. WHERE HANDRAILS ARE NOT CONTINUOUS BETWEEN FLIGHTS, THE HANDRAILS SHALL EXTEND HORIZONTALLY AT LEAST 12" BEYOND THE TOP RISER AND CONTINUE TO SLOPE FOR THE DEPTH OF ONE TREAD BEYOND THE BOTTOM RISER, UNLESS EXEMPT PER I.B.C. 1003.3.3.11.5 EXCEPTIONS.

B) THE HAND GRIP PORTION OF HANDRAILS SHALL HAVE A CIRCULAR CROSS SECTION OF 1 1/4" MINIMUM TO 2" MAXIMUM. OTHER HANDRAIL SHAPES THAT HAVE AN EQUIVALENT GRASP ABILITY ARE PERMISSIBLE, SEE BUILDING CODE. EDGES SHALL HAVE A MINIMUM RADIUS OF 1/8". SEE I.B.C. 1003.3.3.11.3.

C) HANDRAILS ADJACENT TO A WALL SHALL HAVE A SPACE OF NOT LESS THAN 1 1/2" BETWEEN THE WALL AND THE HANDRAIL. I.B.C. 1003.3.3.11.6.

18. GUARD RAILS SHALL MEET THE FOLLOWING REQUIREMENTS. SEE I.B.C. SECTION 1003.2.12.

A) GUARDRAILS ARE REQUIRED AT ALL PORCHES, BALCONIES, OPEN SIDED WALKING SURFACES, MEZZANINES, RAMPS, AND LANDINGS LOCATED MORE THAN 30" ABOVE THE FLOOR OR GRADE BELOW AND SHALL BE NOT LESS THAN 42" IN HEIGHT. OPEN SIDES OF STAIRS WITH A TOTAL RISE OF MORE THAN 30" ABOVE THE FLOOR OR GRADE BELOW SHALL HAVE GUARDS NOT LESS THAN 42" IN HEIGHT MEASURED VERTICALLY FROM THE NOSING OF THE TREAD, SEE I.B.C. 1003.2.12.1 FOR EXCEPTION.

B) REQUIRED GUARDS ON OPEN SIDES OF STAIRWAYS, RAISED FLOOR AREA, BALCONIES, ETC. SHALL HAVE INTERMEDIATE RAILS OR ORNAMENTAL CLOSURES THAT DO NOT ALLOW PASSAGE OF A SPHERE 4" IN DIAMETER UP TO 34" HEIGHT, BETWEEN 34" & 42" IN HEIGHT, A SPHERE 8" SHALL NOT PASS. SEE I.B.C. 1003.2.12.2 FOR EXCEPTIONS AND ADDITIONAL INFO.

C) THE TRIANGLE OPENINGS FORMED BY THE RISER, TREAD AND BOTTOM RAIL OF A GUARD AT THE OPEN SIDE OF A STAIRWAY ARE PERMITTED TO BE OF SUCH A SIZE THAT A SPHERE 6" IN DIAMETER CANNOT PASS THROUGH.

PROJECT INFORMATION

CODE COMPLIANCE

GOVERNING CODE: 2000 INTERNATIONAL BUILDING CODE (I.B.C.) FOR NEW PORTION PER I.B.C. CHAPTER 34: FOR EXISTING PORTIONS USE 1994 UBC

OCCUPANCY GROUP: B

BUILDING TYPE: VA

NEW SQUARE FOOTAGE: 2,210 SQ. FT. SCIF & 186 S.F. MECH PLATFORM

EXITING

AS IT EXISTS, NO CHANGE

NEW EXIT LOAD CALCS

49 new OCCUPANTS/ TWO EXITS X # = EXIT WIDTH

25 X .2 FOR HALLWAYS = 5"

25 X .2 FOR STAIRS IN SPRINKLERED SPACE = 5"

Add handrail to increase useable exit width at stair

DRAWING INDEX

INC.	SHEET	SHEET TITLE
☐	G001	COVER SHEET
☐	G101	~~BUILDING SCHEMATICS~~
☐	G102	NEW BUILDING SCHEMATICS (revision 1)
STRUCTURAL		
☐	S001	GENERAL STRUCTURAL NOTES
☐	S101	FLOOR FRAMING PLAN
☐	S102	ROOF FRAMING PLAN
☐	S801	STRUCTURAL DETAILS
ARCHITECTURAL		
☐	D101	EXISTING MAIN LEVEL PLAN
☐	D102	DEMOLITION ROOF PLAN
☐	D103	EXISTING REFLEC. CLG. PLAN
☐	D201	EXISTING ELEVATION
☐	A101	SECOND LEVEL FLOOR PLAN
☐	A102	SECOND FLOOR REFLECTED CEILING PLAN
☐	A103	SECOND FLOOR ROOF PLAN
☐	A201	SCIF ELEVATIONS (revision 1)
☐	A301	~~CONCEPTUAL BUILDING SECTION~~
☐	A302	NEW CORRIDOR PLAN, SECT, & DETAILS
☐	A401	~~WALL SECTIONS~~
☐	A501	STAIR DETAILS & LADDER DTLS
☐	A502	WALL TYPES, DETAILS, & SCHEDULES
☐	A701	FIXTURE FURNITURE & EQUIP. LAYOUT
MECHANICAL		
☐	M0.1	MECHANICAL SCHEDULES
☐	M2.1	NEW SECOND LEVEL MECHNICAL PLAN
☐	M5.1	MECHANICAL SPECIFICATIONS
☐	M5.2	MECHANICAL SPECIFICATIONS (revision 1)
ELECTRICAL		
☐	E001	DETAILS, NOTES, AND SCHEDULE
☐	E200	FLOOR PLAN - NEW PANEL FEED
☐	E201	SECOND FLOOR PLANS - ELECTRICAL
☐		
☐		
☐		

NOTE: FOR WALL TYPES SEE SHEET A-502

jsa architecture planning interiors
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BUILDING NAME: JLTC

JLTC WAREHOUSE SCIF O. D. D. OGDEN, UTAH

PROJECT TITLE: SCIF

OGDEN, UTAH JLTC FACILITY AT OGDEN DEFENSE DEPOT

MARK	DATE	DESCRIPTION
1	9-20-04	REVISION 1

ISSUE TYPE: BID SET

ISSUE DATE: SEPTEMPBER 8, 2004

DFCM PROJECT NO: 03220480
JSA PROJECT NO: 0358
DRAWN BY: JRR
CHK'D BY:
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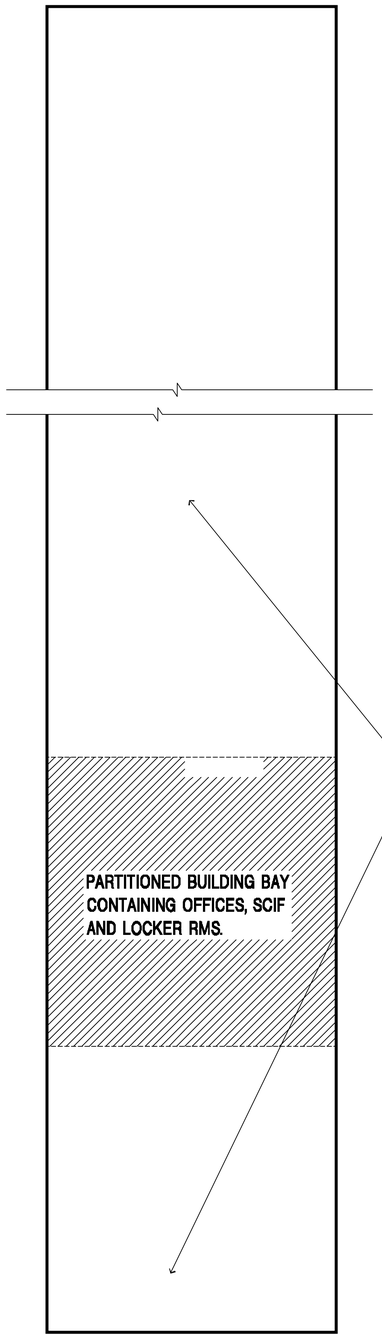
SHEET TITLE

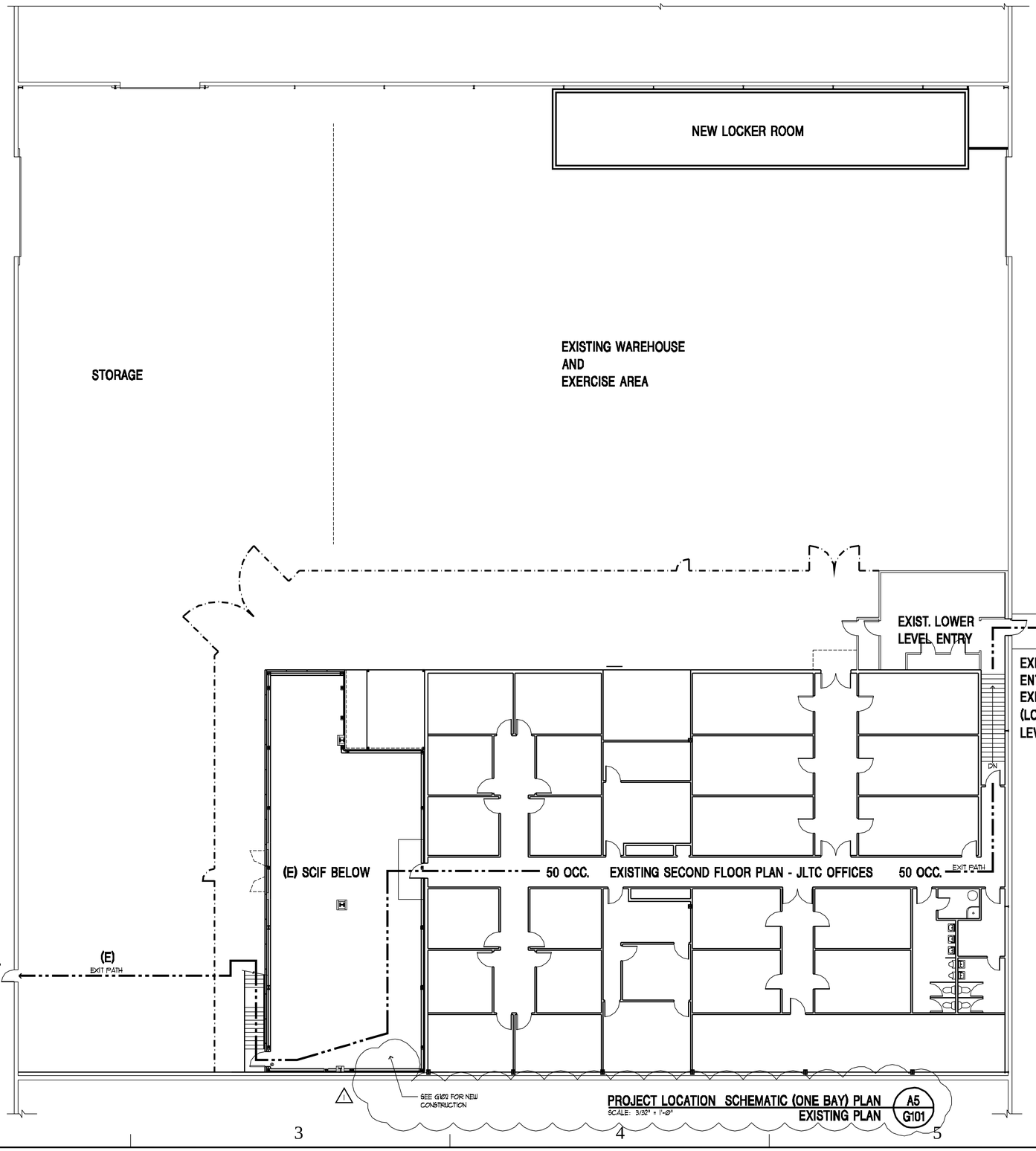
COVER SHEET

SHEET NUMBER

G001



OVERALL BUILDING PLAN SCHEMATICS (A2 / G101)
SCALE: N.T.S= 1'-0"



PROJECT LOCATION SCHEMATIC (ONE BAY) PLAN (A5 / G101)
SCALE: 3/32" = 1'-0"
EXISTING PLAN

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BUILDING NAME: JLTC

JLTC
WAREHOUSE
SCIF
O. D. D.
OGDEN, UTAH

PROJECT TITLE: SCIF

OGDEN, UTAH
JLTC FACILITY
AT
OGDEN
DEFENSE
DEPOT

MARK	DATE	DESCRIPTION
1	9/29/04	REVISION 1

ISSUE TYPE: BID SET

ISSUE DATE:
SEPTEMPBER 8, 2004

DFCM PROJECT NO: 03220480
JSA PROJECT NO: 0358
DRAWN BY: JRR
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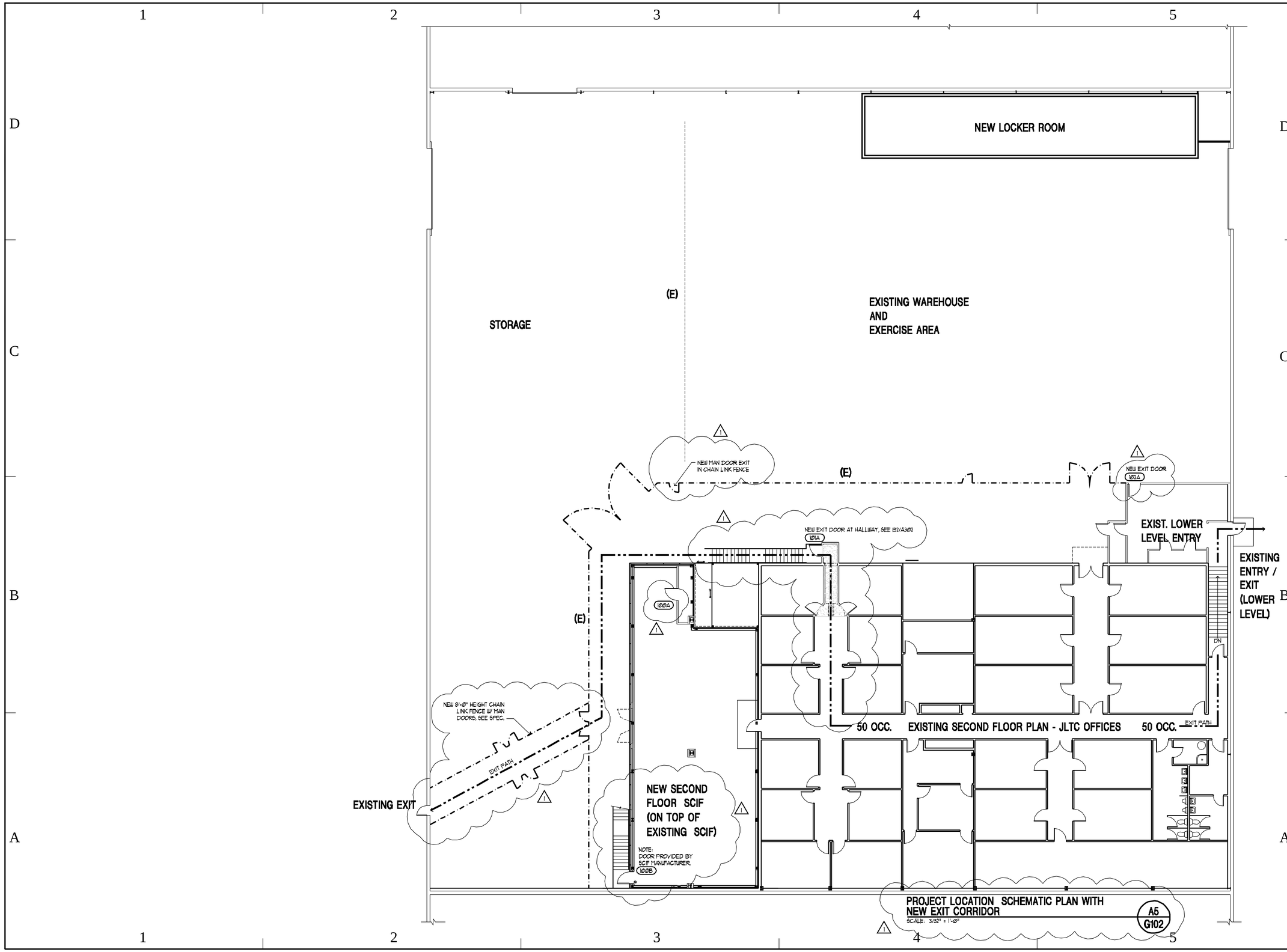
SHEET TITLE
BUILDING
SCHEMATICS

SHEET NUMBER
G101

SHEET 002 OF 28



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BUILDING NAME: JLTC

JLTC
WAREHOUSE
SCIF
O. D. D.
OGDEN, UTAH

PROJECT TITLE: SCIF

OGDEN, UTAH
JLTC FACILITY
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MARK	DATE	DESCRIPTION
1	9/29/04	REVISION 1

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SHEET TITLE

NEW BUILDING
SCHEMATICS

SHEET NUMBER

G102

SHEET 003 OF 28

GENERAL:

ALL CODES STANDARDS AND SPECIFICATIONS REFERRED TO IN THESE NOTES ARE TO BE PART OF THESE NOTES AS IF FULLY SET FORTH HEREIN. UNLESS NOTED OTHERWISE, THESE SHALL BE THE LATEST EDITION AND SUPPLEMENTS.

ALL DETAILS AND NOTES ON DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL APPLY TO SIMILAR SITUATIONS ELSEWHERE UNLESS NOTED OR SHOWN OTHERWISE. CONSTRUCTION NOT SPECIFICALLY SHOWN, SHALL BE ACCOMPLISHED PER MINIMUM REQUIREMENTS OF UBC.

CONTRACTOR SHALL COMPARE ALL DIMENSIONS AND CONDITIONS ON CONTRACT DOCUMENTS AND AT THE SITE. ANY OMISSION OR CONFLICT SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND/OR ENGINEER. IN CASE OF ANY CONFLICT FOLLOW THE MOST STRINGENT REQUIREMENT AS DIRECTED BY ARCHITECT AND/OR ENGINEER.

CONTRACTOR SHALL NOTIFY ENGINEER AT LEAST TWENTY FOUR HOURS PRIOR TO: PLACING CONCRETE IN ANY FOOTING OR SLAB OR BEAM OR COLUMN, CLOSING ANY WALL FORMS, GROUTING ANY MASONRY, COMPLETING NAILING OF ANY PLYWOOD WALL OR DECK, COMPLETING THE WELDING OF ANY MAJOR SECTION OF STEEL DECKING.

CONTRACTOR SHALL COORDINATE WITH ALL TRADES ALL ITEMS THAT ARE TO BE INTEGRATED INTO THE STRUCTURAL SYSTEM. ORDER OF CONSTRUCTION TO BE THE RESPONSIBILITY OF THE CONTRACTOR. HE SHALL PROVIDE ALL ITEMS NECESSARY FOR HIS CHOSEN PROCEEDURE.

UNTIL ALL PERMANENT MEMBERS, INCLUDING WALLS, SLABS, FLOORS & ROOF ARE IN PLACE AND ALL CONNECTIONS ARE COMPLETED, STABILITY OF STRUCTURE AND ALL PARTS THEREOF SHALL BE CONTRACTOR'S RESPONSIBILITY. DURING CONSTRUCTION CONTRACTOR SHALL KEEP CONSTRUCTION LOADS WITHIN THE DESIGN FLOOR AND ROOF LOAD LIMITS SHOWN ON DRAWING. AFTER CONSTRUCTION IS COMPLETED BUILDING MANAGER SHALL KEEP LOADS ON ROOF AND FLOOR WITHIN DESIGN LIMITS SHOWN ON DRAWINGS.

ANY DEVIATION FROM CONTRACT DOCUMENTS SHALL BE APPROVED BY ARCHITECT AND SHALL BE SO DOCUMENTED. THIS DOCUMENTATION SHALL BECOME PART OF CONTRACT DOCUMENTS. DEVIATION FROM CONTRACT DOCUMENTS SHALL NOT BE ALLOWED ON SHOP DRAWINGS.

CONTRACTOR SHALL REVIEW AND VERIFY ALL SHOP DRAWINGS TO ASSURE THEY COMPLY WITH REQUIREMENTS OF THE CONTRACT DOCUMENTS. ENGINEER WILL REVIEW THE SHOP DRAWINGS FOR GENERAL CONFORMANCE WITH DESIGN CONCEPT. THIS REVIEW BY THE ENGINEER SHALL NOT BE CONSTRUED AS APPROVAL.

THERMAL OR MOISTURE PROTECTION, FURNISHINGS, DOORS, WINDOWS, EQUIPMENT, MECHANICAL, ELECTRICAL, FINISHES, SIDING, PANELING, VENEERS ARE NOT PART OF THE RESPONSIBILITY OF THE STRUCTURAL ENGINEER.

OBSERVATION VISITS TO THE SITE BY STRUCTURAL ENGINEER'S FIELD REPRESENTATIVES SHALL NOT BE CONSTRUED AS INSPECTION OR APPROVAL OF CONSTRUCTION.

STRUCTURAL CONCRETE:

ALL CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH EQUAL TO 3000 PSI WITHIN 28 DAYS AFTER PLACING OWNER WILL HIRE A TESTING LABORATORY TO TEST ALL CONCRETE. SUBMIT A COPY OF TEST REPORTS FOR REVIEW. CONCRETE DESIGNED @ 2,500 PSI.

NORMAL WEIGHT AGGREGATES SHALL COMPLY WITH ASTM C-33 AND SHALL PRODUCE CONCRETE WEIGHING WITHIN 145 TO 155 POUNDS PER CUBIC FOOT. WATER USED IN CONCRETE SHALL BE POTABLE. CALCIUM CHLORIDE, ALUMINUM CONDUIT, PRODUCT CONTAINING ALUMINUM OR ANY OTHER MATERIAL INJURIOUS TO CONCRETE SHALL NOT BE USED IN CONCRETE.

METAL REINFORCEMENT SHALL BE DEFORMED TYPE BARS AND SHALL CONFORM TO ASTM A-615 GRADE 60 WITH MINIMUM YIELD STRENGTH OF 60 KSI. ALL REINFORCEMENT BARS SHALL BE DETAILED, BOLSTERED AND SUPPORTED IN ACCORDANCE WITH ACI STANDARD 315. SUBMIT SHOP DRAWINGS FOR REVIEW PRIOR TO FABRICATION. PROVIDE CONCRETE COVER FOR REBAR AS FOLLOWS:

CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH		3.00 INCHES
CONCRETE EXPOSED TO EARTH OR WEATHER,	# 5 BARS AND SMALLER	1.50 INCHES
CONCRETE EXPOSED TO EARTH OR WEATHER,	# 6 BARS AND LARGER	2.00 INCHES
CONCRETE NOT EXPOSED TO EARTH OR WEATHER, SLABS, WALLS & JOISTS		0.75 INCHES
CONCRETE NOT EXPOSED TO EARTH OR WEATHER, BEAMS AND COLUMNS		1.50 INCHES

ALL FORMWORK SHALL COMPLY WITH REQUIREMENTS OF ACI STANDARD PUBLICATION NO 347. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN, CARE, DETAILING, PLACEMENT AND REMOVAL OF ALL FORMWORK AND SHORING.

TEMPERATURE REINFORCEMENT SPLICES IN WALLS, CONTINUOUS FOOTINGS AND SLABS SHALL LAP 30 BAR DIAMETER. ALL OTHER SPLICES SHALL BE AS SHOWN OR NOTED ON DRAWINGS. ADDITIONAL SPLICES, IF REQUIRED, SHALL COMPLY WITH REQUIREMENTS OF SECTION 2612 OF UBC, AND SHALL BE APPROVED BY ENGINEER.

STRUCTURAL STEEL:

ALL FABRICATION AND ERECTION SHALL COMPLY WITH REQUIREMENTS OF FOLLOWING CODES AND SPECIFICATIONS. PROVIDE SHOP DRAWINGS FOR REVIEW PRIOR TO FABRICATION.

AISC SPECIFICATION FOR THE DESIGN FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS, WITH COMMENTARY. AISC CODE OF STANDARD PRACTICE, EXCLUDING SECTIONS 1.5.1, 3.3, 4.2 AND 7.115 AISC SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A-325 OR A-490 BOLTS AWS STRUCTURAL WELDING CODE, EXCLUDING ITEMS CONFLICTING AISC REQUIREMENTS

MATERIAL SHALL COMPLY WITH FOLLOWING STANDARDS EXCEPT WHERE NOTED OTHERWISE.

WIDE FLANGE SHAPES	ASTM A-992
TYPICAL BOLTS	ASTM A-307 GRADE A
HIGH STRENGTH BOLTS	ASTM A-325
ANCHOR BOLTS	ASTM A-307 GRADE A
NUTS FOR ANCHOR BOLTS	ASTM A-563 GRADE A
STEEL TUBES	ASTM A-500 GRADE B WITH YIELD STRENGTH EQUAL TO 46 KSI
STEEL PIPES	ASTM A-53 GRADE B TYPE E OR S
DEFORMED BAR ANCHORS	MANUFACTURED BY NELSON STUD CO. OR EQUAL
HEADED STUD ANCHORS	ASTM A-108 MANUFACTURED BY NELSON STUD CO. OR EQUAL
ALL OTHER STEEL SHAPES	ASTM A-36 WITH YIELD STRENGTH EQUAL TO 36 KSI.

USE HIGH STRENGTH BOLTS FOR STEEL TO STEEL CONNECTIONS WHERE CALLED OUT ON DRAWINGS. TIGHTEN THESE BOLTS BY THE TURN OF THE NUT OR DIRECT TENSION METHOD. PROVIDE HARDENED WASHERS UNDER ALL TURNED ELEMENTS. PROVIDE STANDARD WASHERS UNDER ALL NUTS AND ANCHOR BOLTS.

ALL HEADED STUD AND DEFORMED BAR ANCHOR WELDING SHALL CONFORM TO SPECIFICATIONS PROVIDED BY MANUFACTURER. THESE WELDS SHALL BE FIELD TESTED TO COMPLY WITH THE REQUIREMENTS OF UBC STANDARD NO 27-6LL.

ALL WELDING SHALL BE EXECUTED BY AWS CERTIFIED WELDERS. CERTIFICATION SHALL BE CONSIDERED CURRENT IF DATED WITHIN PAST 12 MONTHS. UNLESS NOTED OTHERWISE WELD E-70 XX ELECTRODES AS FOLLOWS:

COLUMNS TO BASE PLATES AND CAP PLATES	1/4 INCH FILLET	ALL AROUND	
STIFFENER PLATES TO WEB AND FLANGES	1/4 INCH FILLET	ALL AROUND	BOTH SIDES
STIFFENER PLATES TO COLUMNS	1/4 INCH FILLET	ALL AROUND	BOTH SIDES
STIFFENER PLATES TO BASE AND CAP PLATES	1/4 INCH FILLET	ALL AROUND	BOTH SIDES
JOISTS TO GIRDERS AND BEARING PLATES	1/4 INCH FILLET	TWO INCHES	BOTH SIDES
MISC. STEEL TO STEEL(ANGLES,CHANNELS,ETC)	1/4 INCH FILLET	TWO INCHES	BOTH SIDES

THE OWNER MAY TEST ANY OR ALL WELDS BY MEANS OF X-RAY, ULTRASONIC OR ANY OTHER APPROPRIATE NON-DESTRUCTIVE PROCEDURE. DEFICIENT WELDS SHALL BE CORRECTED AND RETESTED AT CONTRACTOR'S EXPENSE.

STRUCTURAL TIMBER:

STRUCTURAL LUMBER SHALL BE DOUGLAS FIR LARCH NUMBER 2 OR BETTER AND SHALL HAVE MINIMUM ALLOWABLE UNIT STRESSES AS FOLLOWS:

EXTREME FIBER STRESS IN BENDING, SINGLE MEMBER USE	875 PSI.
EXTREME FIBER STRESS IN BENDING, REPETITIVE MEMBER USE	1006 PSI.
TENSION STRESS PARALLEL TO GRAIN	575 PSI.
HORIZONTAL SHEAR STRESS	95 PSI.
COMPRESSION STRESS PERPENDICULAR TO GRAIN	625 PSI.
COMPRESSION STRESS PARALLEL TO GRAIN	1300 PSI.
MODULUS OF ELASTICITY	1600 KSI.

STEEL DECKS:

ALL STEEL JOISTS AND GIRDERS, WITH THEIR ASSOCIATED HARDWARE, SHALL BE DESIGNED. FABRICATED & INSTALLED PER REQUIREMENTS OF STEEL JOIST INSTITUTE SPECIFICATION.

FLOOR STEEL DECK SHALL BE 1 1/2" DEEP GALVANIZED VERCO B FORMLOCK DECK MANUFACTURED BY VERCO. PROVIDE 1/2" DIAMETER FUSION WELDS @ 24" O/C.

SUBSTITUTION OF FLOOR STEEL DECK SHALL BE APPROVED BY ARCHITECT AND ENGINEER. IT SHALL HAVE CAPACITY FOR GRAVITY AND SHEAR LOADS EQUAL TO OR BETTER THAN SPECIFIED STEEL DECKS AND SHALL BE ICBO APPROVED.

IBC 2000 CRITERIA :

1. ROOF LIVE LOAD = (INTERIOR) 20 psf
2. FLOOR LIVE LOAD = 50 psf
3. BASIC WIND SPEED (3) SECOND GUST) AND EXPOSURE = NO WIND (PROJECT INSIDE BLDG.)
4. SEISMIC DESIGN CATAGORY = D
5. SITE CLASS = D
6. SEISMIC USE GROUP = III ESSENTIAL FACILATY
7. SPECTRAL RESPONCE COEFFICIENT
   SDS = 1.02
   SDI = 0.62
8. BASIC -SEISMIC FORCE -RESISTING SYSTEM = X-BRACE
9. DESIGN BASE SHEAR = SEE CALC'S
10. SEISMIC ANALYSIS PROCEDURE = ASD
11. SNOW LOAD EXPOSURE FACTOR = N/A
12. SNOW LOAD IMPORTANCE FACTOR = N/A

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BUILDING NAME: JLTC

RM# N/A
JLTC WAREHOUS
SCIF
O. D. D.
OGDEN, UTAH

PROJECT TITLE: SCIF

OGDEN, UTAH
JLTC FACILITY
AT
OGDEN DEFENSE
DEPOT

MARK	DATE	DESCRIPTION

ISSUE TYPE: BID SET

ISSUE DATE: SEPT. 8, 2004

03220480 00XXXXXX
CAD PROJECT NO: 02-XXX
CAD DWG FILE: --
DRAWN BY: GGH
CHK'D BY:
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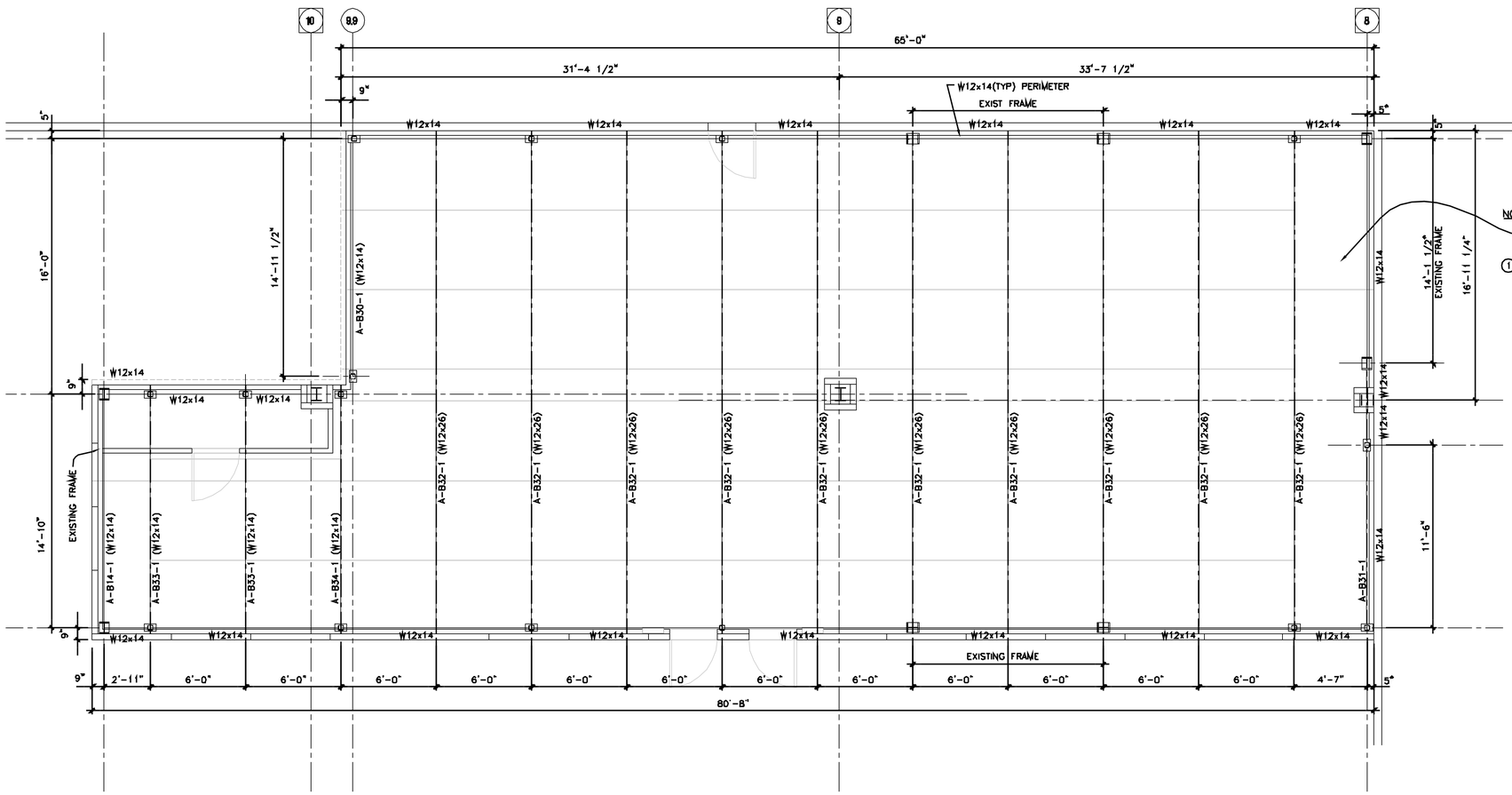
SHEET TITLE

STRUCTURAL
GENERAL
NOTES

SHEET NUMBER

S001



2nd LEVEL FRAMING

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

DN
SN

FLOOR CRITERIA	
DL	39 PSF.
LL	50 PSF.
TOTAL LOAD:	89 PSF.

NOTE:

① (2) LAYERS 3/4" PLYWOOD
(1) 1st LAYER SCREW W #10-24x1 1/2" LONG WAFER HEAD SELF TAPPING SCREWS @ 6" O.C. AT PLYWOOD EDGES AND 10" O.C. TO INTERMEDIATE SUPPORTS INSIDE PANEL (THEY ARE AT 24" O.C.) ORIENT PARALLEL TO LONG SIDE OF EXIST STEEL PANELS.

(2) 2nd LAYER 3/4" PLYWOOD TO BE PERPENDICULAR TO 1st STAGGARED PROVIDE #10-24x1 1/4" LONG WAFER HEAD SELF TAPPING SCREWS @ 6"O.C. @ PLYWOOD EDGES 12" O.C. IN FIELD (EVERY 16").

NOTE !

EXIST DRAWING E-9516-461-1 INDICATE EXISTING CONSTRUCTION ADDITION OF 50 psf. LIVE LOAD FLOOR & 10 psf. ROOF & WALLS & SEISMIC ZONE 3. DWG ISSUED 1995 .:. (1995 UBC). IF THIS STRUCTURE (EXISTING) NEEDS VERIFICATION - NEW CONTRACT IS REQUIRED. NEW CONSTRUCTION PER 2000 IBC.

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O. D. D.
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JLTC FACILITY
AT
OGDEN DEFENSE
DEPOT

MARK	DATE	DESCRIPTION

ISSUE TYPE: BID SET

ISSUE DATE: SEPT. 8, 2004

DFCM PROJECT NO: 03220480
CAD PROJECT NO: 02-XXX
CAD DWG FILE: --
DRAWN BY: GGH
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SHEET TITLE

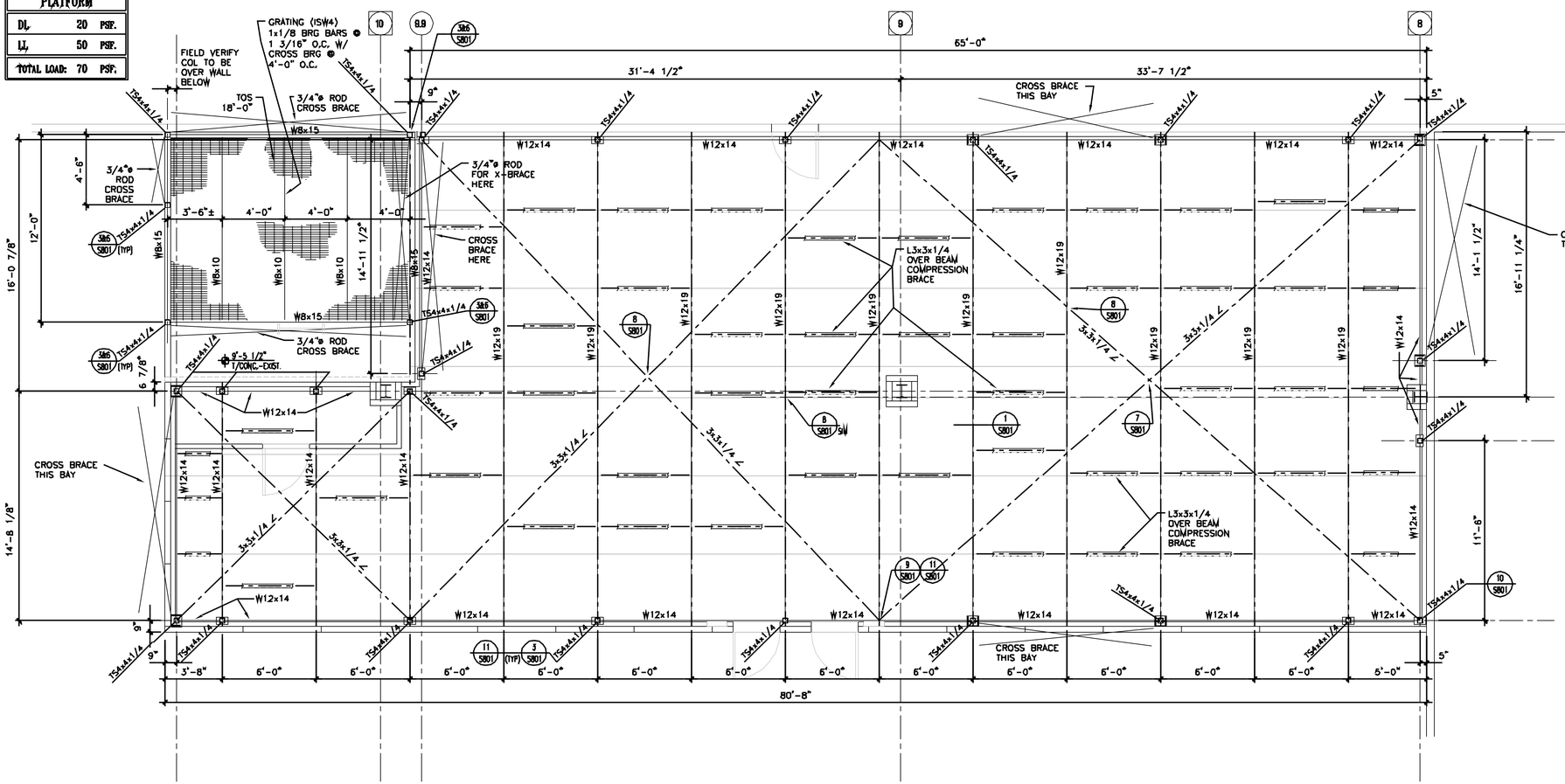
FOOTING &
FOUNDATION
PLAN

SHEET NUMBER

S101

SHEET 05 OF 28

MECHANICAL PLATFORM		
DL	20	PSF.
LL	50	PSF.
TOTAL LOAD:	70	PSF.



ROOF CRITERIA		
DL	14	PSF.
LL	20	PSF.
TOTAL LOAD:	34	PSF.

ROOF FRAMING PLAN

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

DN
SN

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JLTC FACILITY
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DFCM PROJECT NO: 03220480
CAD PROJECT NO: 02-XXX
CAD DWG FILE: --
DRAWN BY: GGH
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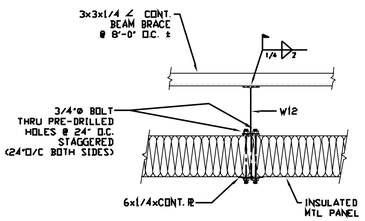
SHEET TITLE

ROOF
FRAMING
PLAN

SHEET NUMBER

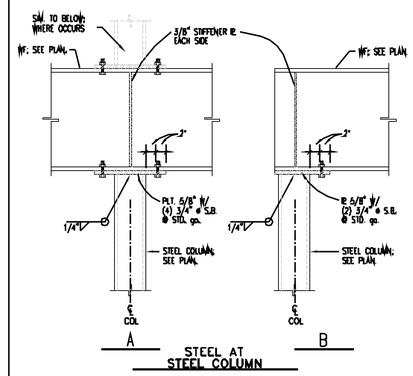
S102



1 S801 DETAIL
SCALE: NTS

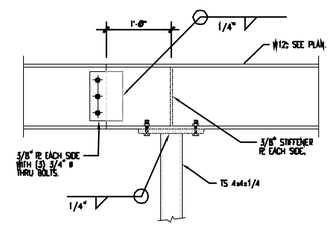
NOT USED

2 S801 FLOOR DETAILS
SCALE: NTS



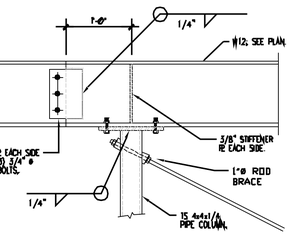
STEEL AT
STEEL COLUMN

3 S801 DETAIL
SCALE: NTS



STEEL BEAM AT
STEEL PIPE COLUMN

4 S801 DETAIL
SCALE: NTS



STEEL BEAM AT
STEEL PIPE COLUMN

5 S801 DETAIL
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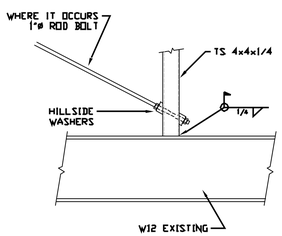

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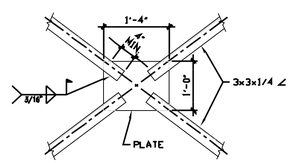

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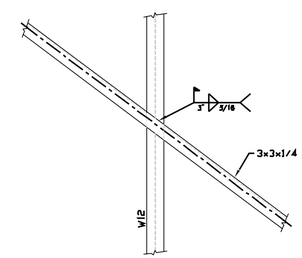

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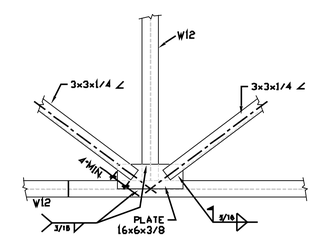

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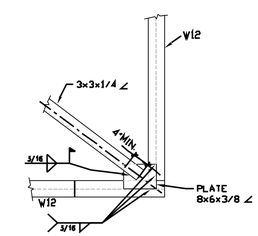

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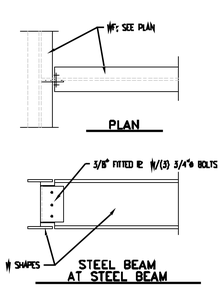

11 S801 DETAIL
SCALE: NTS

12 S801 DETAIL
SCALE: NTS

13 S801 DETAIL
SCALE: NTS

14 S801 DETAIL
SCALE: NTS

15 S801 DETAIL
SCALE: NTS

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BUILDING NAME: JLTC

RM# N/A
JLTC WAREHOUS
SCIF
O. D. D.
OGDEN, UTAH

PROJECT TITLE: SCIF

OGDEN, UTAH
JLTC FACILITY
AT
OGDEN DEFENSE
DEPOT

MARK	DATE	DESCRIPTION

ISSUE TYPE: BID SET

ISSUE DATE: SEPT. 8, 2004

DFCM PROJECT NO: 03220480
CAD PROJECT NO: 02-XXX
CAD DWG FILE: --
DRAWN BY: GGH
CHK'D BY:
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SHEET TITLE

STRUCT
DETAILS

SHEET NUMBER

S801

LEGEND

	EXISTING WALLS TO BE REMOVED		KEY NOTE TAG
	EXISTING WALLS TO REMAIN		REVISION TAG
(E)	EXISTING		INTERIOR ELEVATIONS
(N)	NEW		BUILDING SECTION TAG
(R)	REMOVE, SEE REUSE LEGEND		WALL SECTION TAG
	DOOR TAG		BUILDING GRID TAG
	WINDOW TAG		
	DETAIL TAG		

KEY NOTES

1. VERIFY ALL BEARING. DO NOT REMOVE BEARING WITHOUT FIRST PROVIDING TEMPORARY SHORING.
2. EXISTING TO REMAIN.
3. REMOVE AND REPLACE EXISTING, PATCH WALL OR FLOOR AS REQUIRED.
4. NOT USED
5. NOT USED
6. EXISTING CEILING TO REMAIN.
7. EXISTING DOOR & FRAME TO REMAIN, PATCH & FINISH AS REQUIRED.

GENERAL NOTES

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2. EXISTING BUILDING - CONTRACTOR TO FIELD VERIFY LOCATION FOR ACCURACY PRIOR TO BEGINNING WORK.

3. EXISTING STRUCTURE - EXPOSE EXISTING STRUCTURE AND FIELD VERIFY IT MEETS REQUIREMENTS FOR REMODEL AS DESIGNED. ANY EXISTING FIRE PROTECTION OR SOUND INSULATION SHALL BE MAINTAINED, ANY DAMAGE SHALL BE REQUIRED TO BE REPLACED.

4. REMOVE, DISPOSE OF OR STORE BUILDING MATERIALS AS PER OWNER OR ARCHITECT.

5. PROTECT ALL FINISHES TO REMAIN. EXAMINE ALL FINISH SURFACES AFTER COMPLETION OF WORK AND PROCEED WITH "TOUCH UP" TO RESTORE TO LIKE NEW CONDITION.

6. CONTRACTOR SHALL BE RESPONSIBLE FOR ALLOWING FOR DELIVERY OF OWNER F.F.H.E. WITHIN THE CONSTRUCTION SCHEDULE. CONTRACTOR SHALL ALSO COORDINATE WORK BY OTHERS DURING CONSTRUCTION SCHEDULE. ALL DELIVERY TIMES MUST BE CONFIRMED AND ANY EXCESSIVE LEAD TIME MUST BE BROUGHT TO THE ARCHITECT'S/DESIGNER'S ATTENTION IMMEDIATELY TO ALLOW FOR RE-SPECIFICATION IF NECESSARY.

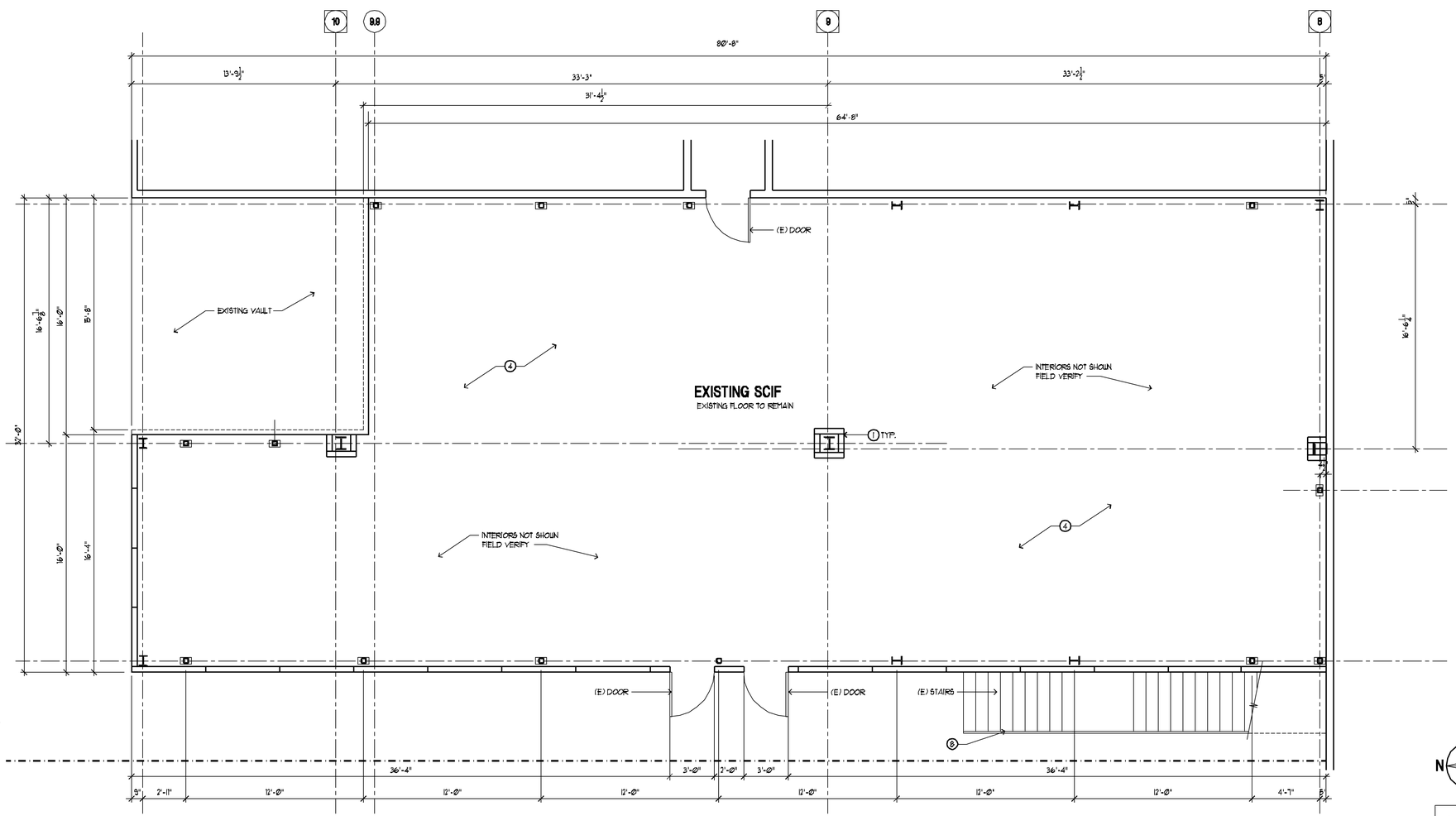
7. COORDINATE WITH OWNER ALL CONSTRUCTION ACTIVITIES: PARKING, STAGING AREAS, REST ROOMS, ETC.

8. KEEP SITE CLEAN AT ALL TIMES

9. BARRICADE OR TAPE OFF FOR PEDESTRIAN PROTECTION FENCE.

10. COORDINATE WITH MECHANICAL AND ELECTRICAL PLANS FOR EQUIPMENT SPECIFICATIONS AND REQUIREMENTS.

11. REPAIR ALL DAMAGES TO ADJACENT CONSTRUCTION THAT OCCURS DUE TO NEW WORK.



EXISTING 1ST FLOOR PLAN
SCALE: 1/4" = 1'-0"

1 / D2.1

NOTE:
FOR REFERENCE ONLY

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JLTC
WAREHOUSE
SCIF
O. D. D.
OGDEN, UTAH

PROJECT TITLE: SCIF

OGDEN, UTAH
JLTC FACILITY
AT
OGDEN
DEFENSE
DEPOT

MARK	DATE	DESCRIPTION
1	9-20-04	REVISION 1

ISSUE TYPE: BID SET

ISSUE DATE:
SEPTEMPBER 8, 2004

DFCM PROJECT NO: 03220480
JSA PROJECT NO: 0358
DRAWN BY: JRR
CHK'D BY:
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SHEET TITLE

EXISTING MAIN LEVEL PLAN

SHEET NUMBER

D101

SHEET 08 OF 28

LEGEND

	EXISTING WALLS TO BE REMOVED		KEY NOTE TAG
	EXISTING WALLS TO REMAIN		REVISION TAG
(E)	EXISTING		INTERIOR ELEVATIONS
(N)	NEW		BUILDING SECTION TAG
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5. NOT USED
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4. REMOVE, DISPOSE OF OR STORE BUILDING MATERIALS AS PER OWNER OR ARCHITECT.

5. PROTECT ALL FINISHES TO REMAIN. EXAMINE ALL FINISH SURFACES AFTER COMPLETION OF WORK AND PROCEED WITH "TOUCH UP" TO RESTORE TO LIKE NEW CONDITION.

6. CONTRACTOR SHALL BE RESPONSIBLE FOR ALLOWING FOR DELIVERY OF OWNER FF&E WITHIN THE CONSTRUCTION SCHEDULE. CONTRACTOR SHALL ALSO COORDINATE WORK BY OTHERS DURING CONSTRUCTION SCHEDULE. ALL DELIVERY TIMES MUST BE CONFIRMED AND ANY EXCESSIVE LEAD TIME MUST BE BROUGHT TO THE ARCHITECT'S/DESIGNER'S ATTENTION IMMEDIATELY TO ALLOW FOR RE-SPECIFICATION IF NECESSARY.

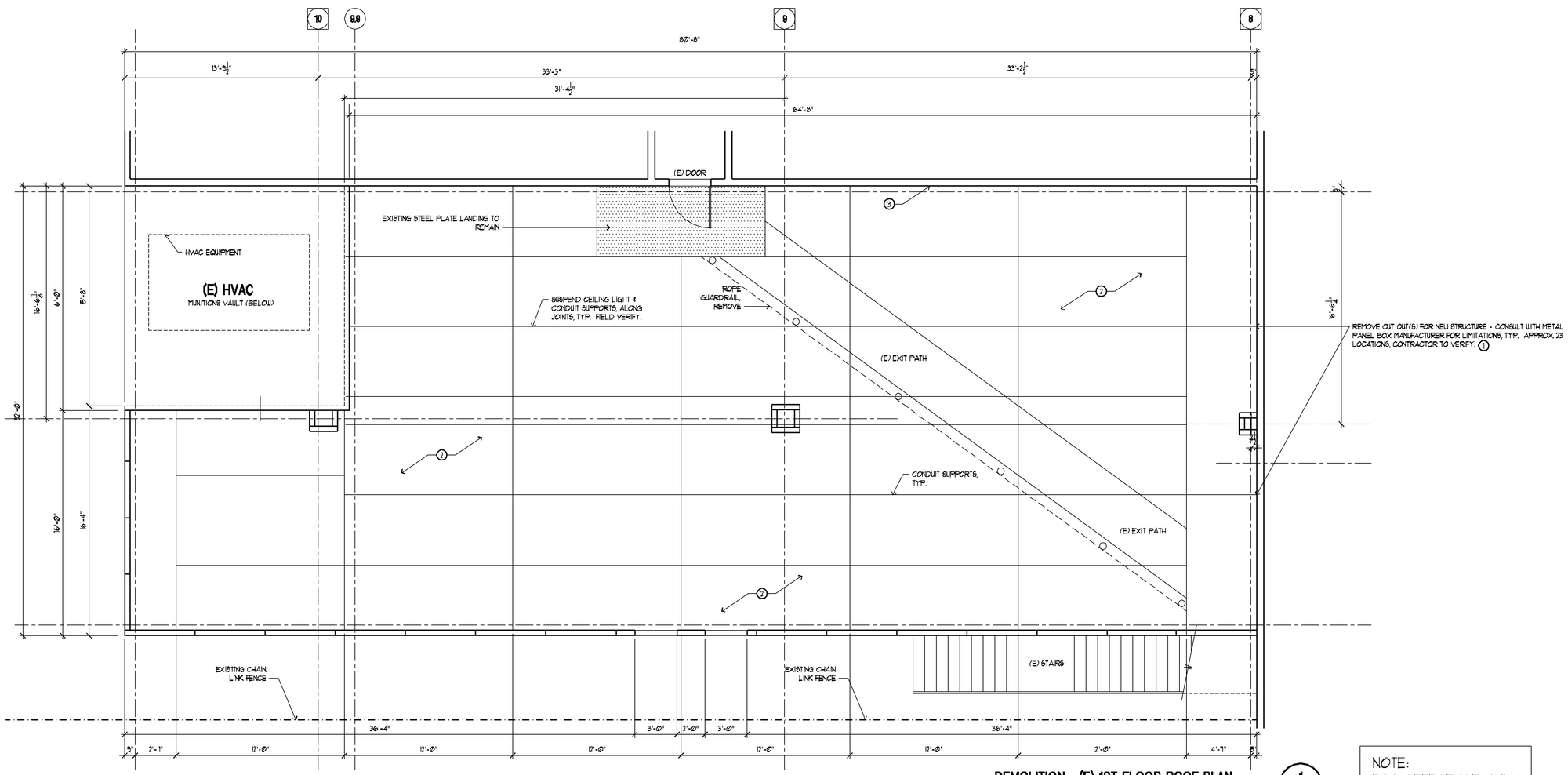
7. COORDINATE WITH OWNER ALL CONSTRUCTION ACTIVITIES: PARKING, STAGING AREAS, REST ROOMS, ETC.

8. KEEP SITE CLEAN AT ALL TIMES

9. BARRICADE OR TAPE OFF FOR PEDESTRIAN PROTECTION FENCE.

10. COORDINATE WITH MECHANICAL AND ELECTRICAL PLANS FOR EQUIPMENT SPECIFICATIONS AND REQUIREMENTS.

11. REPAIR ALL DAMAGES TO ADJACENT CONSTRUCTION THAT OCCURS DUE TO NEW WORK.



DEMOLITION - (E) 1ST FLOOR ROOF PLAN (1 / D2.1)

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

NOTE:
FOR REFERENCE ONLY

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3115 e. lion lane suite 300
salt lake city utah 84121

801. 278. 8151 fax 801. 278. 8661

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BUILDING NAME: JLTC

JLTC WAREHOUSE SCIF O. D. D. OGDEN, UTAH

PROJECT TITLE: SCIF

OGDEN, UTAH JLTC FACILITY AT OGDEN DEFENSE DEPOT

MARK	DATE	DESCRIPTION
1	9-20-04	REVISION 1

ISSUE TYPE: BID SET

ISSUE DATE: SEPTEMPBER 8, 2004

DFCM PROJECT NO: 03220480
JSA PROJECT NO: 0358
DRAWN BY: JRR
CHK'D BY:
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SHEET TITLE

DEMOLITION ROOF PLAN - (SELECTIVE DEMOLITION)

SHEET NUMBER

D102

SHEET 09 OF 28

LEGEND

	EXISTING WALLS TO BE REMOVED	1	KEY NOTE TAG
	EXISTING WALLS TO REMAIN	1	REVISION TAG
(E)	EXISTING	1 2 3 4	INTERIOR ELEVATIONS
(N)	NEW		BUILDING SECTION TAG
(R)	REMOVE, SEE REUSE LEGEND		WALL SECTION TAG
	DOOR TAG	#	BUILDING GRID TAG
1	WINDOW TAG		
	DETAIL TAG		

KEY NOTES

1. VERIFY ALL BEARING. DO NOT REMOVE BEARING WITHOUT FIRST PROVIDING TEMPORARY SHORING.
2. EXISTING TO REMAIN.
3. REMOVE AND REPLACE EXISTING, PATCH WALL OR FLOOR AS REQUIRED.
4. NOT USED
5. NOT USED
6. EXISTING CEILING TO REMAIN.
7. EXISTING DOOR & FRAME TO REMAIN, PATCH & FINISH AS REQUIRED.

GENERAL NOTES

1. DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS GOVERN ALL PARTITION LOCATIONS SHALL BE AS SHOWN ON PLANS. IN CASE OF CONFLICT, NOTIFY ARCHITECT.

2. EXISTING BUILDING - CONTRACTOR TO FIELD VERIFY LOCATION FOR ACCURACY PRIOR TO BEGINNING WORK.

3. EXISTING STRUCTURE - EXPOSE EXISTING STRUCTURE AND FIELD VERIFY IT MEETS REQUIREMENTS FOR REMODEL AS DESIGNED. ANY EXISTING FIRE PROTECTION OR SOUND INSULATION SHALL BE MAINTAINED, ANY DAMAGE SHALL BE REQUIRED TO BE REPLACED.

4. REMOVE, DISPOSE OF OR STORE BUILDING MATERIALS AS PER OWNER OR ARCHITECT.

5. PROTECT ALL FINISHES TO REMAIN. EXAMINE ALL FINISH SURFACES AFTER COMPLETION OF WORK AND PROCEED WITH "TOUCH UP" TO RESTORE TO LIKE NEW CONDITION.

6. CONTRACTOR SHALL BE RESPONSIBLE FOR ALLOWING FOR DELIVERY OF OWNER FRAME WITHIN THE CONSTRUCTION SCHEDULE. CONTRACTOR SHALL ALSO COORDINATE WORK BY OTHERS DURING CONSTRUCTION SCHEDULE. ALL DELIVERY TIMES MUST BE CONFIRMED AND ANY EXCESSIVE LEAD TIME MUST BE BROUGHT TO THE ARCHITECTS/DESIGNER'S ATTENTION IMMEDIATELY TO ALLOW FOR RE-SPECIFICATION IF NECESSARY.

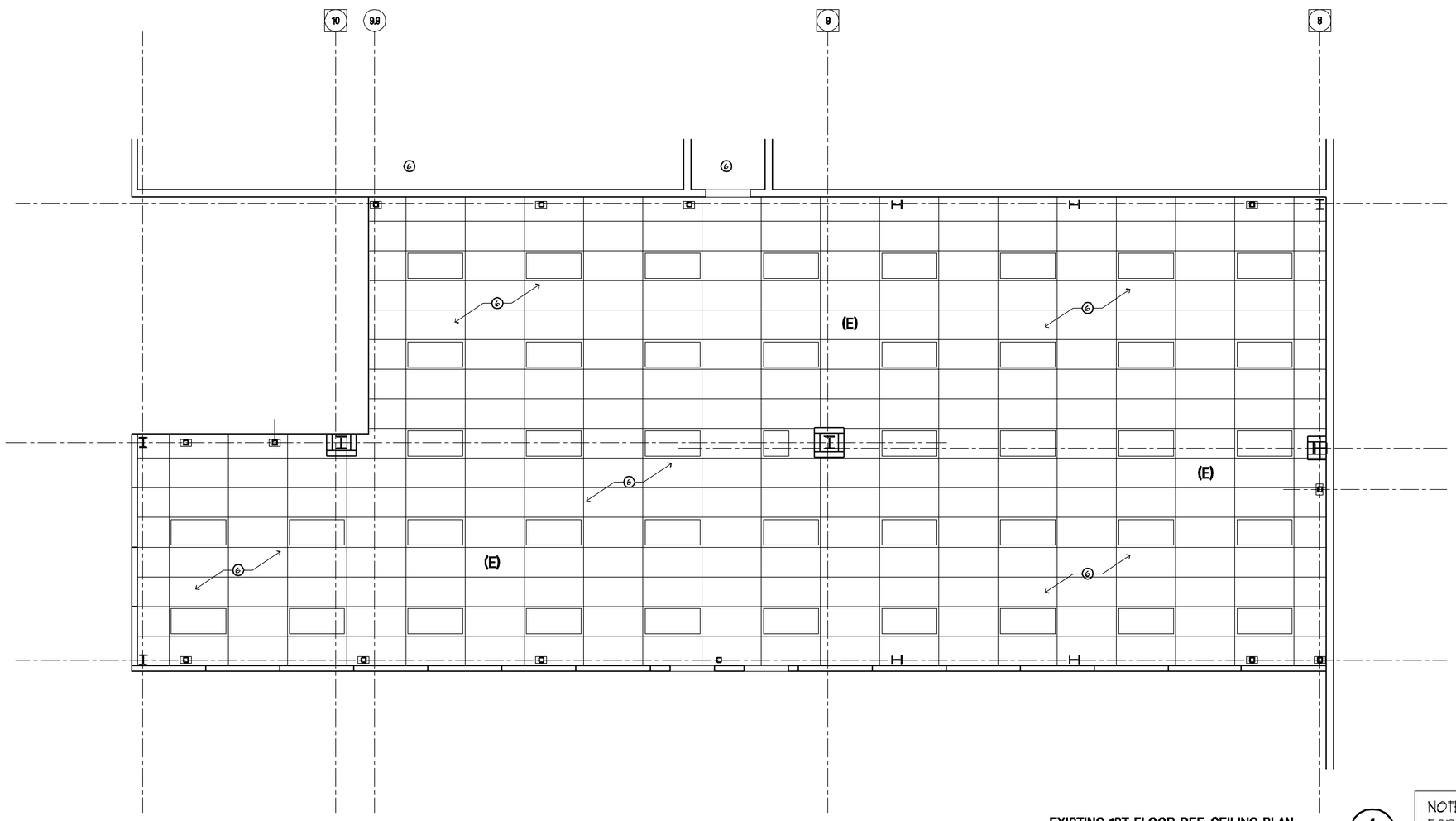
7. COORDINATE WITH OWNER ALL CONSTRUCTION ACTIVITIES: PARKING, STAGING AREAS, REST ROOMS, ETC.

8. KEEP SITE CLEAN AT ALL TIMES

9. BARRICADE OR TAPE OFF FOR PEDESTRIAN PROTECTION FENCE.

10. COORDINATE WITH MECHANICAL AND ELECTRICAL PLANS FOR EQUIPMENT SPECIFICATIONS AND REQUIREMENTS.

11. REPAIR ALL DAMAGES TO ADJACENT CONSTRUCTION THAT OCCURS DUE TO NEW WORK.



EXISTING 1ST FLOOR REF. CEILING PLAN
SCALE: 1/4" = 1'-0"

1 / D2.1

NOTE:
FOR REFERENCE ONLY

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salt lake city utah 84121

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BUILDING NAME: JLTC

JLTC
WAREHOUSE
SCIF
O. D. D.
OGDEN, UTAH

PROJECT TITLE: SCIF

OGDEN, UTAH
JLTC FACILITY
AT
OGDEN
DEFENSE
DEPOT

MARK	DATE	DESCRIPTION
1	9-20-04	REVISION 1

ISSUE TYPE: BID SET

ISSUE DATE:
SEPTEMPBER 8, 2004

DFCM PROJECT NO: 03220480
JSA PROJECT NO: 0358
DRAWN BY: JRR
CHK'D BY:
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SHEET TITLE

EXISTING
REFLECTED
CEILING PLAN

SHEET NUMBER

D103

LEGEND

	EXISTING WALLS TO BE REMOVED		KEY NOTE TAG
	EXISTING WALLS TO REMAIN		REVISION TAG
(E)	EXISTING		INTERIOR ELEVATIONS
(N)	NEW		BUILDING SECTION TAG
(R)	REMOVE, SEE REUSE LEGEND		WALL SECTION TAG
	DOOR TAG		BUILDING GRID TAG
	WINDOW TAG		
	DETAIL TAG		

KEY NOTES

1. VERIFY ALL BEARING. DO NOT REMOVE BEARING WITHOUT FIRST PROVIDING TEMPORARY SHORING.
2. EXISTING TO REMAIN.
3. REMOVE AND REPLACE EXISTING, PATCH WALL OR FLOOR AS REQUIRED.
4. NOT USED
5. NOT USED
6. EXISTING CEILING TO REMAIN.
7. EXISTING DOOR & FRAME TO REMAIN, PATCH & FINISH AS REQUIRED.

GENERAL NOTES

1. DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS GOVERN ALL PARTITION LOCATIONS SHALL BE AS SHOWN ON PLANS. IN CASE OF CONFLICT, NOTIFY ARCHITECT.

2. EXISTING BUILDING - CONTRACTOR TO FIELD VERIFY LOCATION FOR ACCURACY PRIOR TO BEGINNING WORK.

3. EXISTING STRUCTURE - EXPOSE EXISTING STRUCTURE AND FIELD VERIFY IT MEETS REQUIREMENTS FOR REMODEL AS DESIGNED. ANY EXISTING FIRE PROTECTION OR SOUND INSULATION SHALL BE MAINTAINED. ANY DAMAGE SHALL BE REQUIRED TO BE REPLACED.

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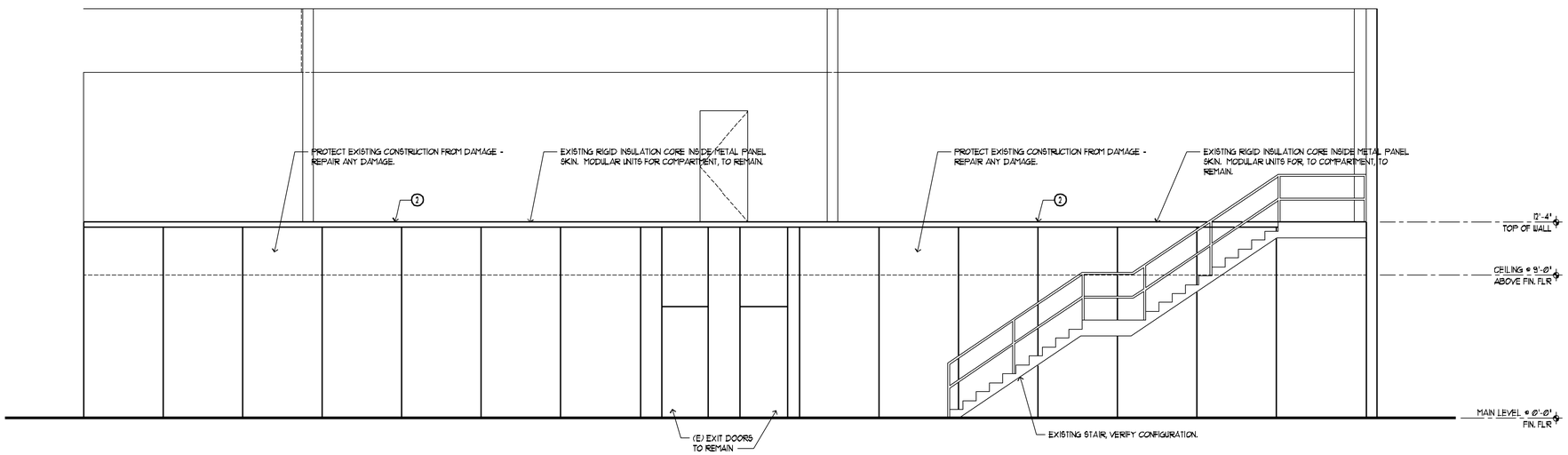
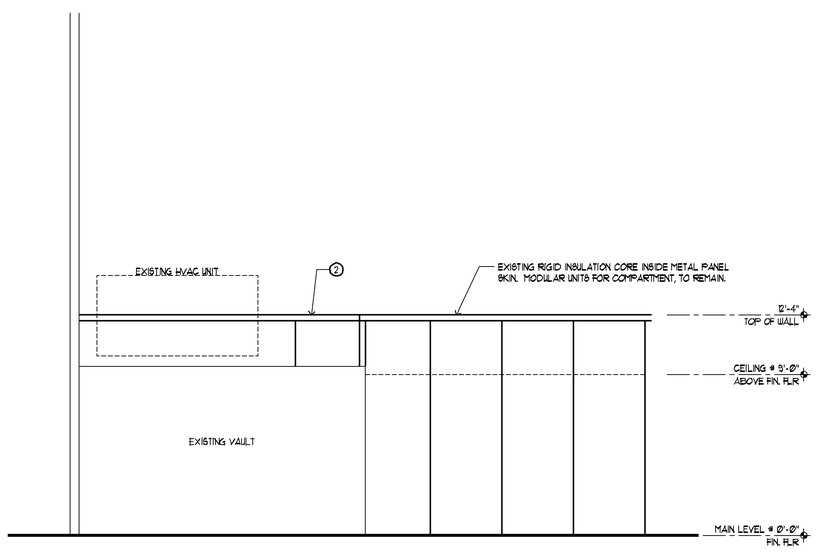
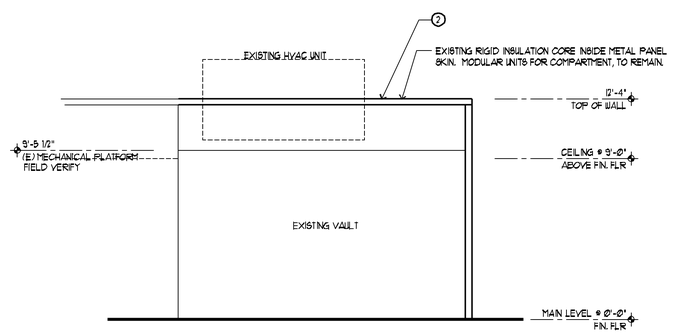


(E) WEST ELEVATION — B4 / D201
SCALE: 1/4" = 1'-0"



(E) PARTIAL NORTH ELEVATION — A2 / D201
SCALE: 1/4" = 1'-0"



(E) PARTIAL EAST ELEVATION — A4 / D201
SCALE: 1/4" = 1'-0"

NOTE:
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FIELD VERIFY

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BUILDING NAME: JLTC

JLTC WAREHOUSE SCIF O. D. D. OGDEN, UTAH

PROJECT TITLE: SCIF

OGDEN, UTAH JLTC FACILITY AT OGDEN DEFENSE DEPOT

MARK	DATE	DESCRIPTION
1	9-20-04	REVISION 1

ISSUE TYPE: BID SET

ISSUE DATE: SEPTEMPBER 8, 2004

DFCM PROJECT NO: 03220480
JSA PROJECT NO: 0358
DRAWN BY: JRR
CHK'D BY:
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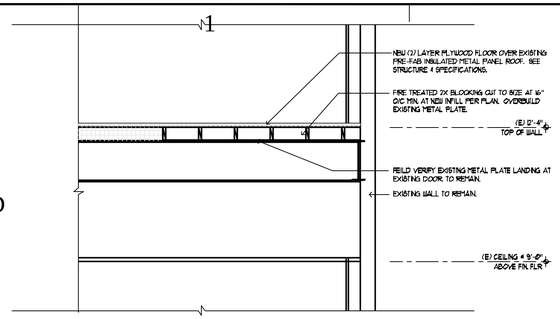
SHEET TITLE

EXISTING ELEVATION PLAN

SHEET NUMBER

D201

SHEET 11 OF 28



INFILL AT EXISTING METAL PLATE FLOOR

SCALE: NTS= 1'-0" — 1D / A101

LEGEND

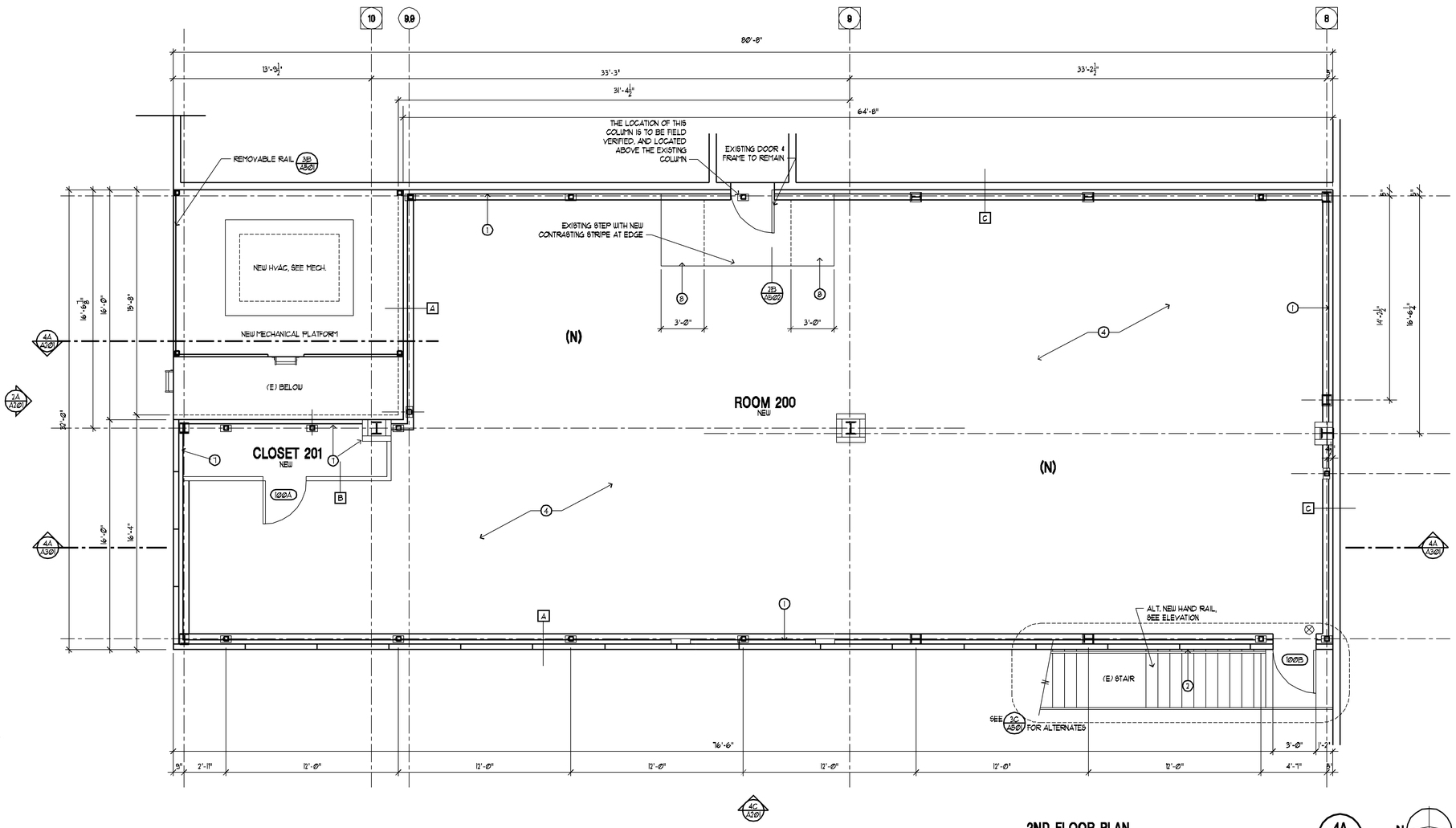
	EXISTING WALLS TO BE REMOVED	1	KEY NOTE TAG
	EXISTING WALLS TO REMAIN	A	REVISION TAG
(E)	EXISTING	1 2 3 4	INTERIOR ELEVATIONS
(N)	NEW		BUILDING SECTION TAG
(R)	REMOVE, SEE REUSE LEGEND		WALL SECTION TAG
#	DOOR TAG	#	BUILDING GRID TAG
7	WINDOW TAG		
# / #	DETAIL TAG		
#	WALL TYPE TAG SEE SHEET A-502		

KEY NOTES

1. FURR OUT ALL INSIDE WALLS AS SHOWN. STUD WALL FURRING TO BE INSTALLED INSIDE OUTER PANELIZED BOX AND ON EXISTING WALL. COORDINATE INSTALLATION OF PANELS, ELECTRICAL, AND DATA.
2. REVISED HANDRAILS @ STAIR. SEE DETAILS SHEET A801.
3. PROTECT ITEMS TO BE REUSED. VERIFY STRUCTURAL DURING DEMOLITION.
4. (2) LAYERS OF PLYWOOD OVER EXISTING PRE-FAB. INSULATION PANEL PER MANUFACTURER.
5. EXPOSED NEW STEEL BEAMS ABOVE PRE-FAB. METAL INSUL. PANELS.
6. EXISTING PRE-FAB. INSULATION PANEL PER MANUFACTURER.
7. ATTACH 3/4" AC FIRE TREATED PLYWOOD OVER PRE-FAB. INSULATION PANEL BY OTHERS. PAINT WITH 2 COATS OF FLAME RETARDANT AS REQUIRED PER CODE.
8. INFILL EXISTING STEP WITH SLEEPERS AND RUSH OUT NEW PLYWOOD FLOOR WITH EXISTING METAL PANEL ROOF SEE DETAIL 1D/A101.

GENERAL NOTES

1. COORDINATE W/ MECHANICAL & ELECTRICAL PLANS FOR EQUIPMENT SPECIFICATIONS & REQUIREMENTS.
2. CONTRACTOR TO COORDINATE EXACT SIZE AND LOCATION OF EXISTING STEEL COLUMNS AND BEAMS.
3. ALL PAINT TOUCH UP ON ANY WALL SHALL BE THE ENTIRE WALL, CORNER TO CORNER. NO SPOT PAINT ALLOWED.
4. NEW CONCRETE FLOOR. SEE STRUCTURAL.
5. FIELD VERIFY ALL DIMENSIONS, TYP.
6. OUTSIDE OVERALL WAREHOUSE STRUCTURE NOT SHOWN FOR CLARITY.



2ND FLOOR PLAN

SCALE: 1/4" = 1'-0" — 4A / A101

N

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BUILDING NAME: JLTC

JLTC WAREHOUSE SCIF O. D. D. OGDEN, UTAH

PROJECT TITLE: SCIF

OGDEN, UTAH JLTC FACILITY AT OGDEN DEFENSE DEPOT

MARK	DATE	DESCRIPTION
1	9-20-04	REVISION 1

ISSUE TYPE: BID SET

ISSUE DATE: SEPTEMPBER 8, 2004

DFCM PROJECT NO: 03220480
JSA PROJECT NO: 0358
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SHEET TITLE

SECOND LEVEL FLOOR PLAN

SHEET NUMBER

A101

SHEET 12 OF 28

LEGEND

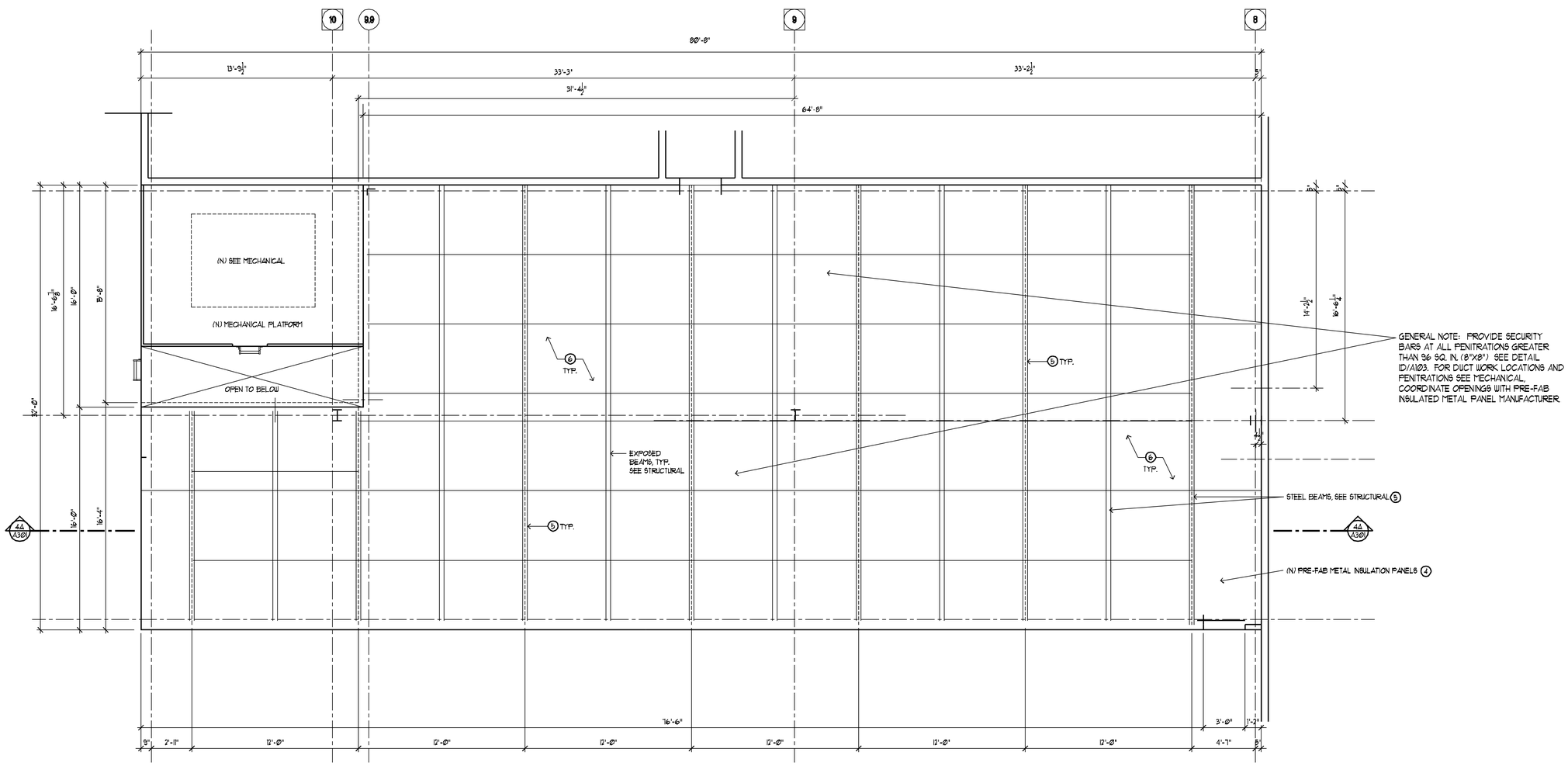
	EXISTING WALLS TO BE REMOVED	1	KEY NOTE TAG
	EXISTING WALLS TO REMAIN	A	REVISION TAG
(E)	EXISTING		
(N)	NEW		INTERIOR ELEVATIONS
(R)	REMOVE, SEE REUSE LEGEND		
	DOOR TAG		BUILDING SECTION TAG
7	WINDOW TAG		
	DETAIL TAG		WALL SECTION TAG
#	WALL TYPE TAG SEE SHEET A-502	#	BUILDING GRID TAG

KEY NOTES

1. FURR OUT ALL INSIDE WALLS AS SHOWN. STUD WALL FURRING TO BE INSTALLED INSIDE OUTER PANELIZED BOX AND ON EXISTING WALL. COORDINATE INSTALLATION OF PANELS, ELECTRICAL, AND DATA.
2. REVISED HANDRAILS @ STAIR. SEE DETAILS SHEET A501.
3. PROTECT ITEMS TO BE REUSED. VERIFY STRUCTURAL DURING DEMOLITION.
4. (2) LAYERS OF PLYWOOD OVER EXISTING PRE-FAB. INSULATION PANEL PER MANUFACTURER.
5. EXPOSED NEW STEEL BEAMS ABOVE PRE-FAB. METAL INSUL. PANELS.
6. EXISTING PRE-FAB. INSULATION PANEL PER MANUFACTURER.
7. ATTACH 3/4" AC FIRE TREATED PLYWOOD OVER PRE-FAB. INSULATION PANEL BY OTHERS. PAINT WITH 2 COATS OF FLAME RETARDANT AS REQUIRED PER CODE.
8. INFILL EXISTING STEP WITH SLEEPERS AND FLUSH OUT NEW PLYWOOD FLOOR WITH EXISTING METAL PANEL ROOF SEE DETAIL 10/A101.

GENERAL NOTES

1. COORDINATE W/ MECHANICAL & ELECTRICAL PLANS FOR EQUIPMENT SPECIFICATIONS & REQUIREMENTS.
2. CONTRACTOR TO COORDINATE EXACT SIZE AND LOCATION OF EXISTING STEEL COLUMNS AND BEAMS.
3. ALL PAINT TOUCH UP ON ANY WALL SHALL BE THE ENTIRE WALL, CORNER TO CORNER. NO SPOT PAINT ALLOWED.
4. NEW CONCRETE FLOOR. SEE STRUCTURAL.
5. FIELD VERIFY ALL DIMENSIONS, TYP.
6. OUTSIDE OVERALL WAREHOUSE STRUCTURE NOT SHOWN FOR CLARITY.



2ND FLOOR ROOF PLAN
SCALE: 1/4" = 1'-0"

4A
A102

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BUILDING NAME: JLTC

JLTC WAREHOUSE SCIF O. D. D. OGDEN, UTAH

PROJECT TITLE: SCIF

OGDEN, UTAH JLTC FACILITY AT OGDEN DEFENSE DEPOT

MARK	DATE	DESCRIPTION
A	9-20-04	REVISION 1

ISSUE TYPE: BID SET

ISSUE DATE: SEPTEMPBER 8, 2004

DFCM PROJECT NO: 03220480
JSA PROJECT NO: 0358
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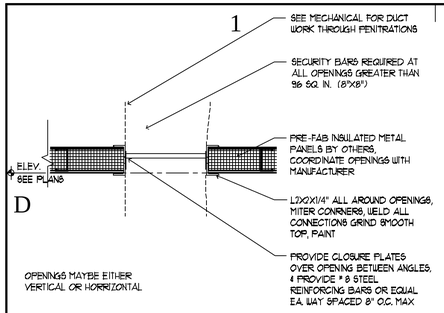
SHEET TITLE

SECOND LEVEL ROOF PLAN

SHEET NUMBER

A102



REQUIRED SECURITY BARS AT OPENINGS > 8"
SCALE: 1" = 1'-0" DT-CL-05 ID A103

LEGEND

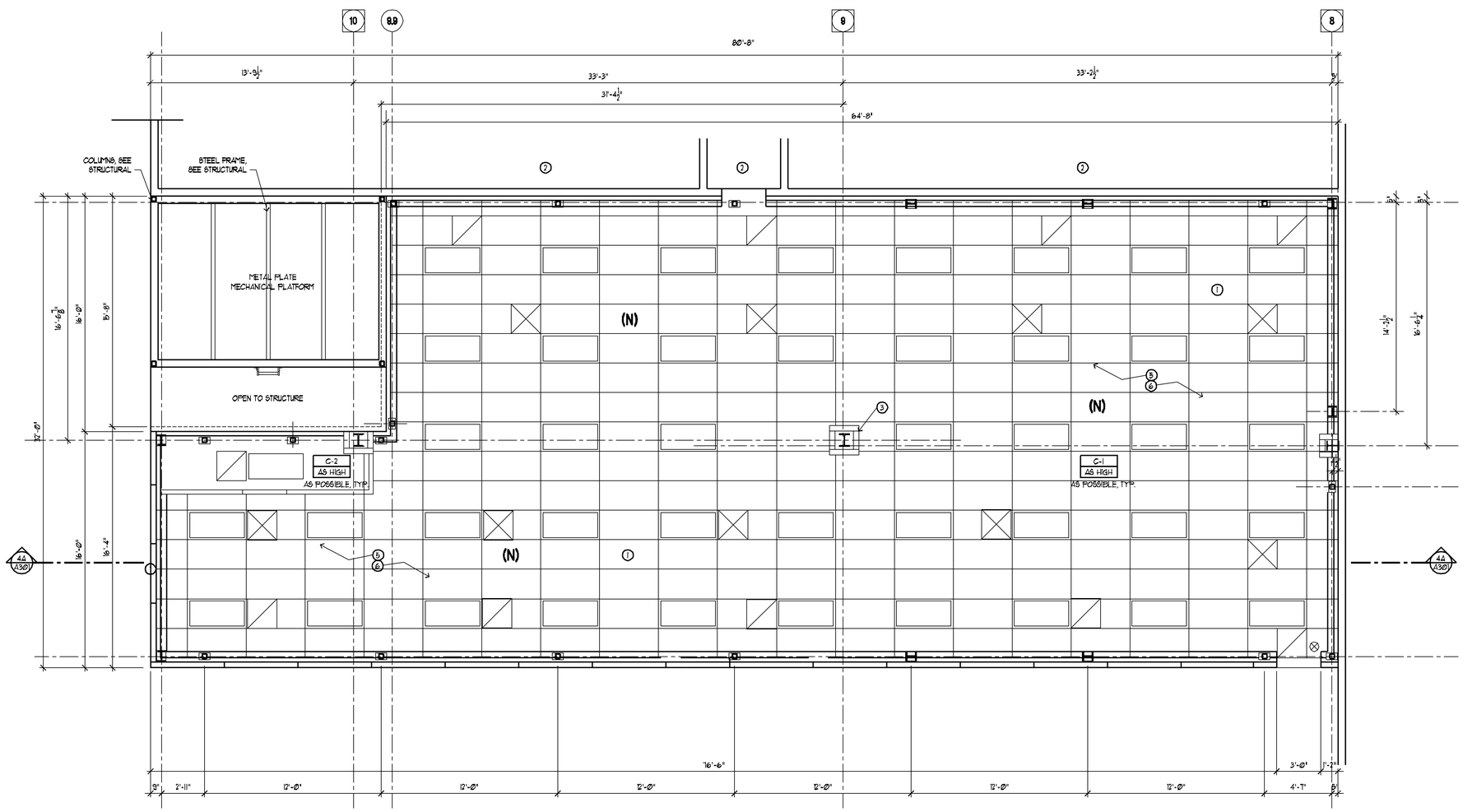
1	KEY NOTE TAG		SUSPENDED OR SURFACE MOUNT LIGHT
A	REVISION TAG		MECH. SUPPLY DIFFUSER, COORD. W/ MECHANICAL
C1 / 9'-0"	CEILING FINISH - SEE FINISH SCHEDULE / FINISHED CEILING HEIGHT		MECH. RETURN DIFFUSER, COORD. W/ MECHANICAL
	LAY-IN LIGHT FIXTURE, COORD. W/ ELECTRICIAN		FIRE SPRINKLER
	EXIT LIGHT. COORD. W/ ELECT.		

CEILING TYPES

C1	2 X 4 ACOUSTICAL TILE, PROVIDE SAMPLE FOR APPROVAL PRIOR TO INSTALLATION
C2	OPEN TO PRE-FAB INSULATED METAL PANELS ABOVE

KEYNOTES / GENERAL NOTES

1. SET CEILING HEIGHT AS HIGH AS POSSIBLE. REPORT ALL CONFLICTS TO ARCHITECT PRIOR TO INSTALLING CEILING.
2. EXISTING BUILDING CONSTRUCTION - NOT IN CONTRACT.
3. COORDINATE W/ PRE-FAB. METAL INSULATION PANEL MANUFACTURER.
4. CONTRACTOR SHALL FIELD VERIFY ALL ELEMENTS OF SPACE PRIOR TO COMMENCEMENT OF CONSTRUCTION
5. SEE DETAILS SHEET A502 FOR CEILING & SPECS.
6. SEE ELECTRICAL FOR LIGHTING AND SEE MECHANICAL FOR HVAC CEILING GRILLES.



GENERAL NOTE: PROVIDE SECURITY BARS AT ALL PENITRATIONS GREATER THAN 96 SQ. IN. (8"X8") SEE DETAIL ID/A103.

2ND FLOOR REFLECTED CEILING PLAN 4A A103
SCALE: 1/4" = 1'-0"

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JLTC
WAREHOUSE
SCIF
O. D. D.
OGDEN, UTAH

PROJECT TITLE: SCIF

OGDEN, UTAH
JLTC FACILITY
AT
OGDEN
DEFENSE
DEPOT

MARK	DATE	DESCRIPTION
A	9-20-04	REVISION 1

ISSUE TYPE: BID SET

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SEPTEMPBER 8, 2004

DFCM PROJECT NO: 03220480
JSA PROJECT NO: 0358
DRAWN BY: JRR
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SHEET TITLE

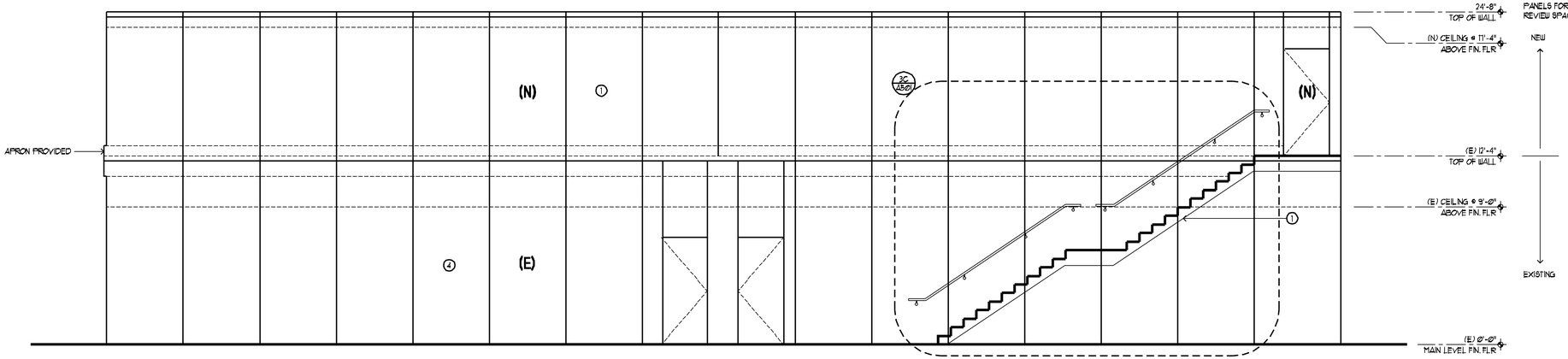
SECOND LEVEL
REFLECTED
CEILING PLAN

SHEET NUMBER

A103

SHEET 14 OF 28

EXTERIOR FINISH & REPAIR LEGEND	KEY NOTES	GENERAL NOTES
ALL NEW EXPOSED EXTERIOR WALLS ARE FOAM FILLED METAL PANEL SYSTEM	1. REVISE HANDRAIL AND EXISTING STAIRS, SEE DETAILS SHEET A801 2. FIELD VERIFY EXISTING CONSTRUCTION TO ENSURE NEW MECHANICAL PLATFORM INSTALLATION PER PLANS. 3. NEW LADDER, SEE DETAILS.	1. OUTER ENCLOSING WAREHOUSE AND EXISTING INNER OFFICE COMPLEX NOT SHOWN. FIELD VERIFY ALL EXISTING CONSTRUCTION AS NECESSARY TO PERFORM THE NEW CONSTRUCTION WORK.

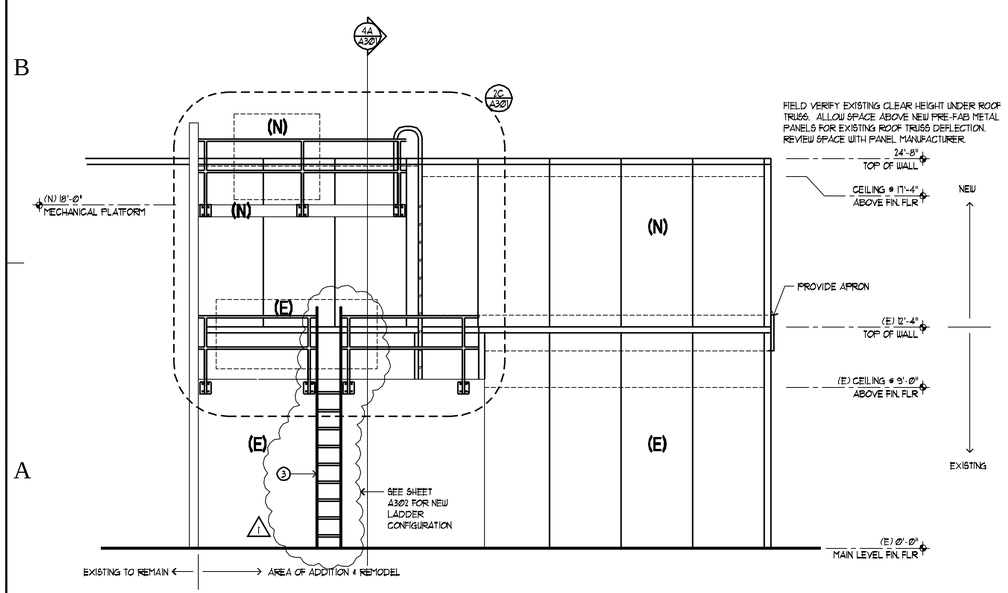


FIELD VERIFY EXISTING CLEAR HEIGHT UNDER ROOF TRUSS. ALLOW SPACE ABOVE NEW PRE-FAB METAL PANELS FOR EXISTING ROOF TRUSS DEFLECTION. REVIEW SPACE WITH PANEL MANUFACTURER.

WEST ELEVATION — 4C A201

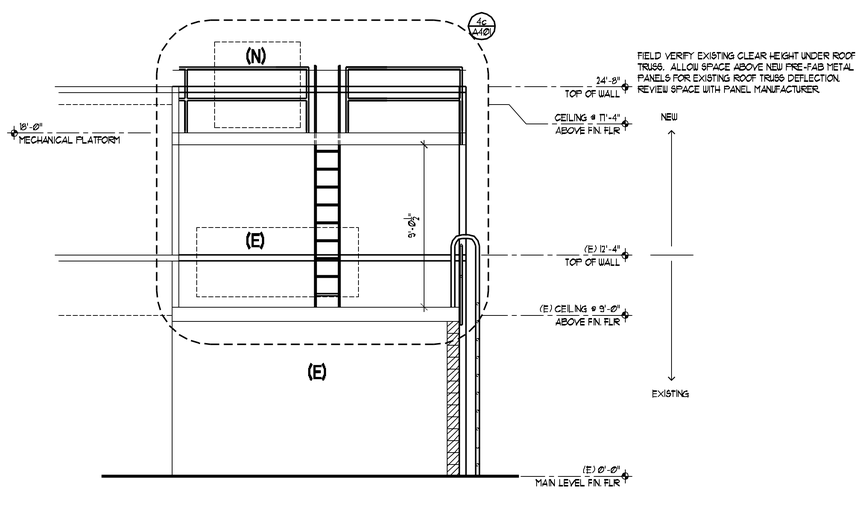
SCALE: 1/4" = 1'-0"

SCIF SHOWN ONLY. OUTER JLTC WAREHOUSE IS NOT SHOWN



PARTIAL SECTION / NORTH ELEVATION — 2A A201

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



PARTIAL SECTION / NORTH ELEVATION — 4A A201

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

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BUILDING NAME: JLTC

JLTC
WAREHOUSE
SCIF
O. D. D.
OGDEN, UTAH

PROJECT TITLE: SCIF

OGDEN, UTAH
JLTC FACILITY
AT
OGDEN
DEFENSE
DEPOT

MARK	DATE	DESCRIPTION
1	9-20-04	REVISION 1

ISSUE TYPE: BID SET

ISSUE DATE:
SEPTEMPBER 8, 2004

DFCM PROJECT NO: 03220480
JSA PROJECT NO: 0358
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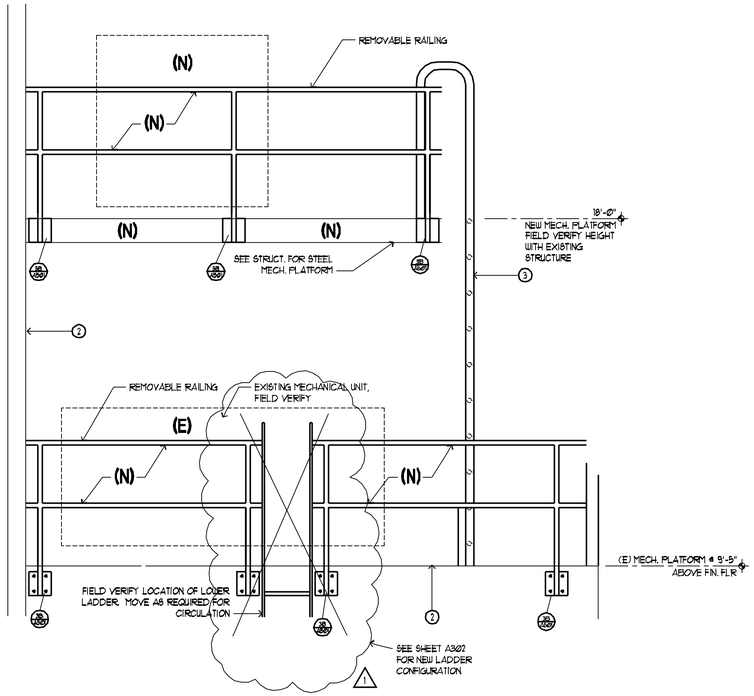
SHEET TITLE

SCIF
ELEVATIONS

SHEET NUMBER

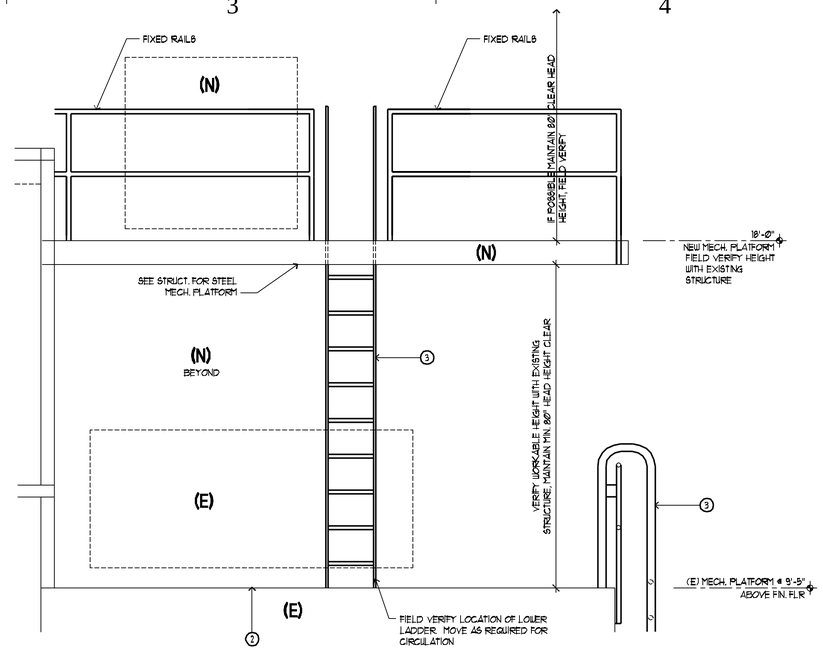
A201



ENLARGE MECHANICAL PLATFORM

SCALE: 1/2" = 1'-0"

2C
A301



ENLARGED MECH. PLATFORM

SCALE: 1/2" = 1'-0"

4C
A301

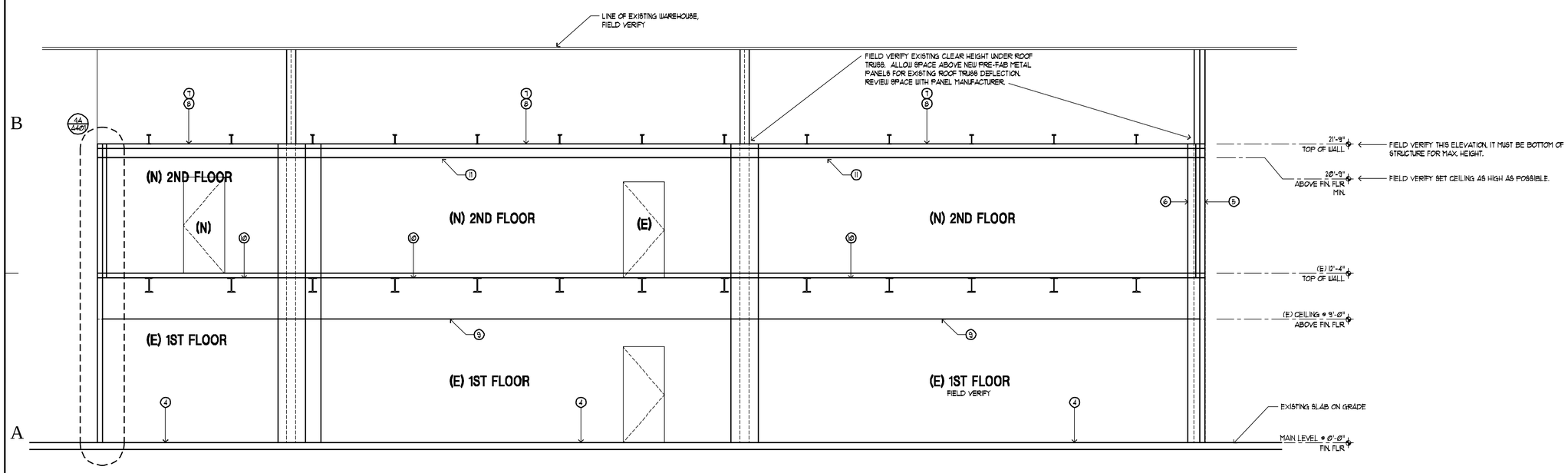
LEGEND

ALL NEW EXPOSED EXTERIOR WALLS ARE FOAM FILLED METAL PANEL SYSTEM, BY OTHERS.

INSULATION INSIDE FOAM FILLED METAL PANEL SYSTEM, BY OTHERS.

KEY NOTES

1. DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS GOVERN. ALL PARTITION LOCATIONS SHALL BE AS SHOWN ON PLANS. IN CASE OF CONFLICT, NOTIFY ARCHITECT.
2. FIELD VERIFY EXISTING CONSTRUCTION TO ENSURE NEW MECHANICAL PLATFORM INSTALLATION PER PLANS.
3. NEW LADDER, SEE DETAILS.
4. EXISTING CONCRETE FLOOR SLAB.
5. OUTER ENCLOSING WAREHOUSE SECTION NOT SHOWN - FIELD VERIFY. COORDINATE WITH STRUCTURE AND EXISTING ELEVATIONS AS REQUIRED. REPORT DISCREPANCIES TO ARCHITECT FOR RESOLUTION.
6. STUD WALL FURRING TO BE INSTALLED INSIDE OUTER PANELIZED BOX AND ON EXISTING WALL. COORDINATE INSTALLATION OF PANELS, ELECTRICAL, AND DATA.
7. PRE-FAB METAL INSULATION PANEL.
8. COORDINATE INSTALLATION WITH PRE-FAB. METAL INSULATION PANELS MANUFACTURER.
9. EXISTING CEILING TILES.
10. NEW (2) LAYER PLYWOOD FLOOR OVER EXISTING PRE-FAB INSULATED METAL PANELS, VERIFY REQUIREMENTS WITH MANUFACTURER AND SEE STRUCTURAL.
11. NEW SUSPENDED ACOUSTIC CEILING TILES, SEE DETAILS AND SPECS.



SCHEMATIC SCIF SECTION

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

4A
A301

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JSA PROJECT NO: 0358
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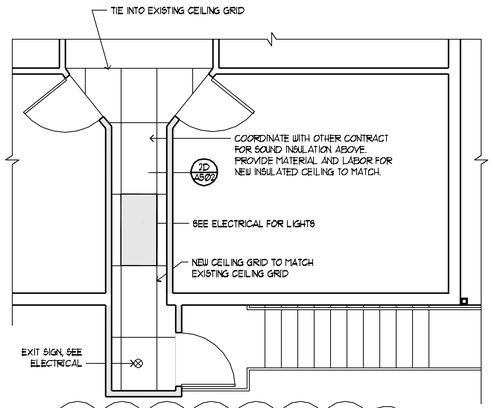
SHEET TITLE

CONCEPTUAL
BUILDING
SECTIONS

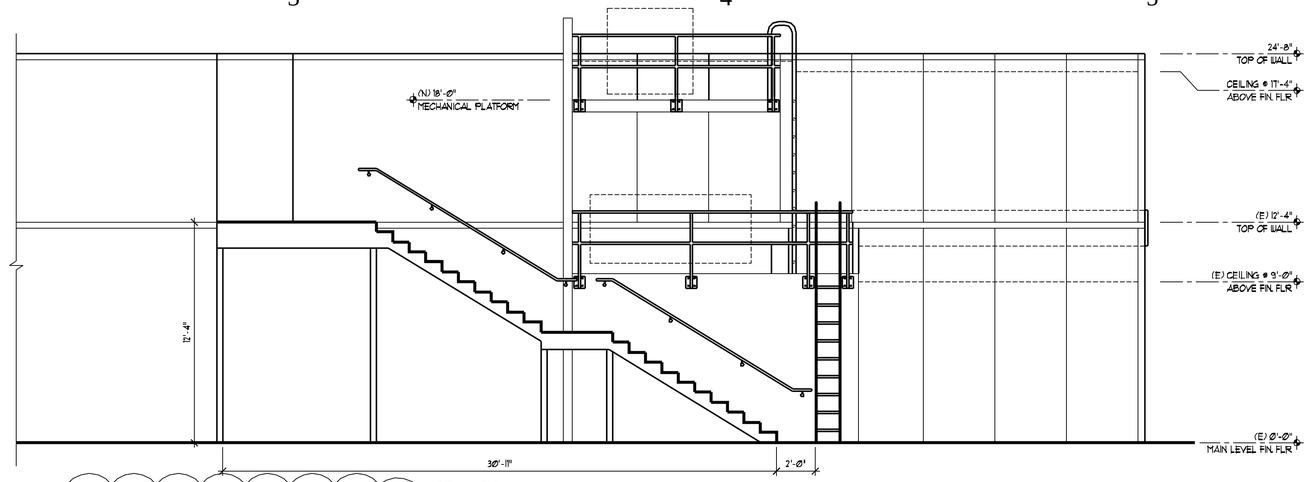
SHEET NUMBER

A301

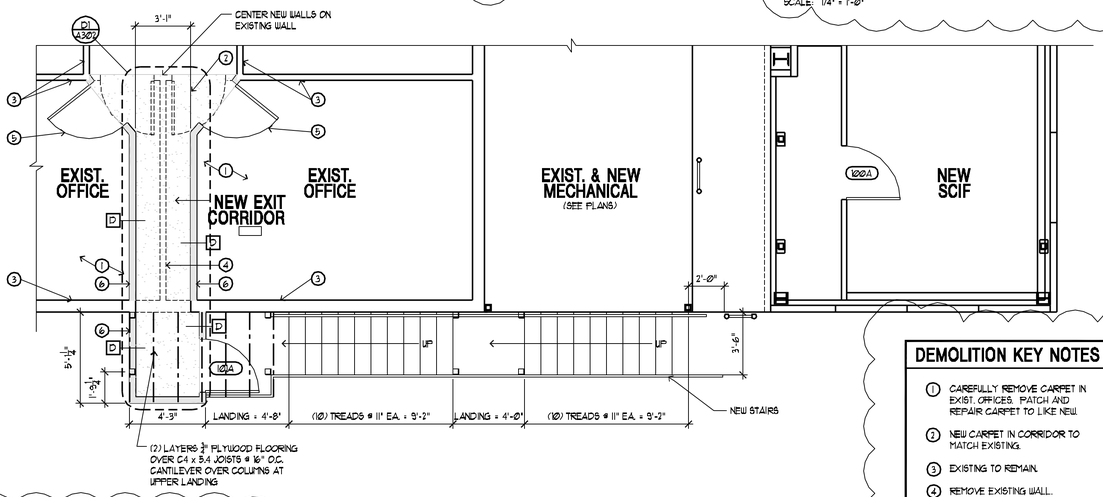
SHEET 16 OF 28



HALLWAY REFLECTED CEILING PLAN — D1 / A3.2
SCALE: 1/4" = 1'-0"



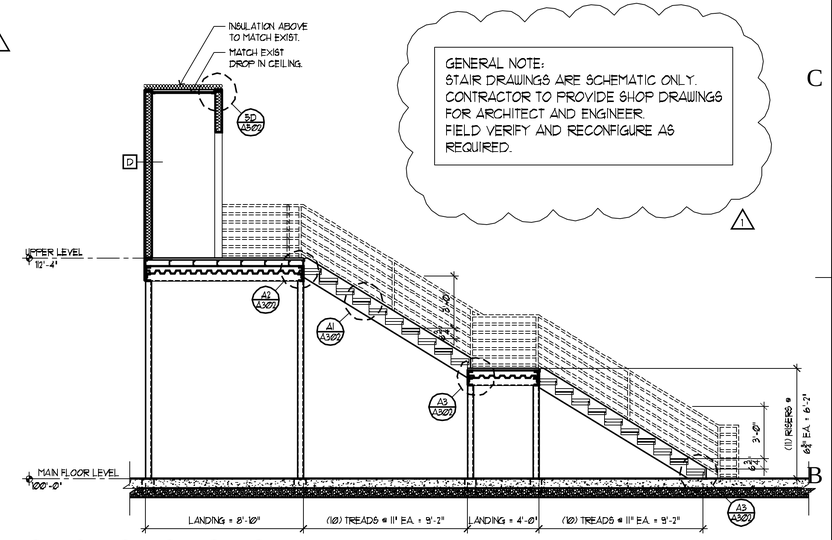
WEST ELEVATION — C1 / A3.2
SCALE: 1/4" = 1'-0"



STAIR PLAN AND NEW HALLWAY PLAN — B2 / A3.2
SCALE: 1/4" = 1'-0"

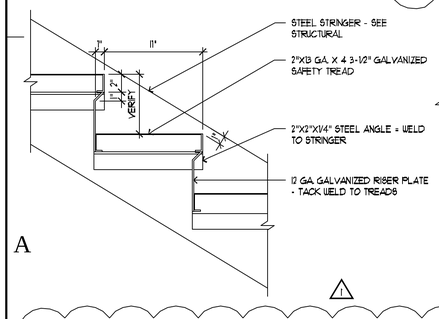
DEMOLITION KEY NOTES

1. CAREFULLY REMOVE CARPET IN EXIST. OFFICES. PATCH AND REPAIR CARPET TO LIKE NEW.
2. NEW CARPET IN CORRIDOR TO MATCH EXISTING.
3. EXISTING TO REMAIN.
4. REMOVE EXISTING WALL.
5. REUSE DOOR AND FRAMES.
6. NEW WALL.

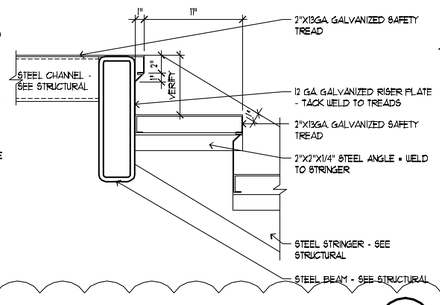


GENERAL NOTE:
STAIR DRAWINGS ARE SCHEMATIC ONLY. CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR ARCHITECT AND ENGINEER. FIELD VERIFY AND RECONFIGURE AS REQUIRED.

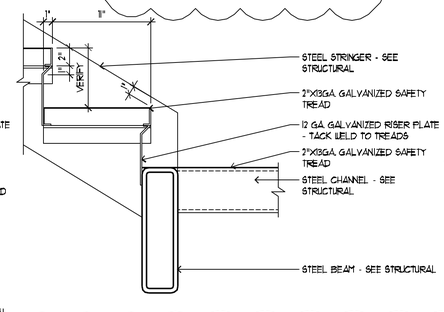
STAIR SECTION — B4 / 3.2
SCALE: 1/4" = 1'-0"



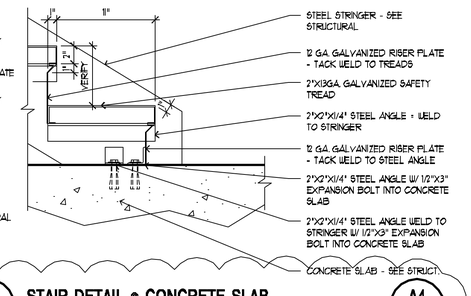
TYPICAL STAIR DETAIL — A1 / A302
SCALE: 1½" = 1'-0" DA-SR-01



STAIR DETAIL @ LANDING — A2 / A302
SCALE: 1½" = 1'-0" DA-SR-02



STAIR DETAIL @ LANDING — A3 / A302
SCALE: 1½" = 1'-0" DA-SR-03



STAIR DETAIL @ CONCRETE SLAB — A4 / A302
SCALE: 1½" = 1'-0" DA-SR-06

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AT
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MARK	DATE	DESCRIPTION
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ISSUE TYPE: BID SET

ISSUE DATE: SEPTEMPBER 8, 2004

DFCM PROJECT NO: 03220480
JSA PROJECT NO: 0358
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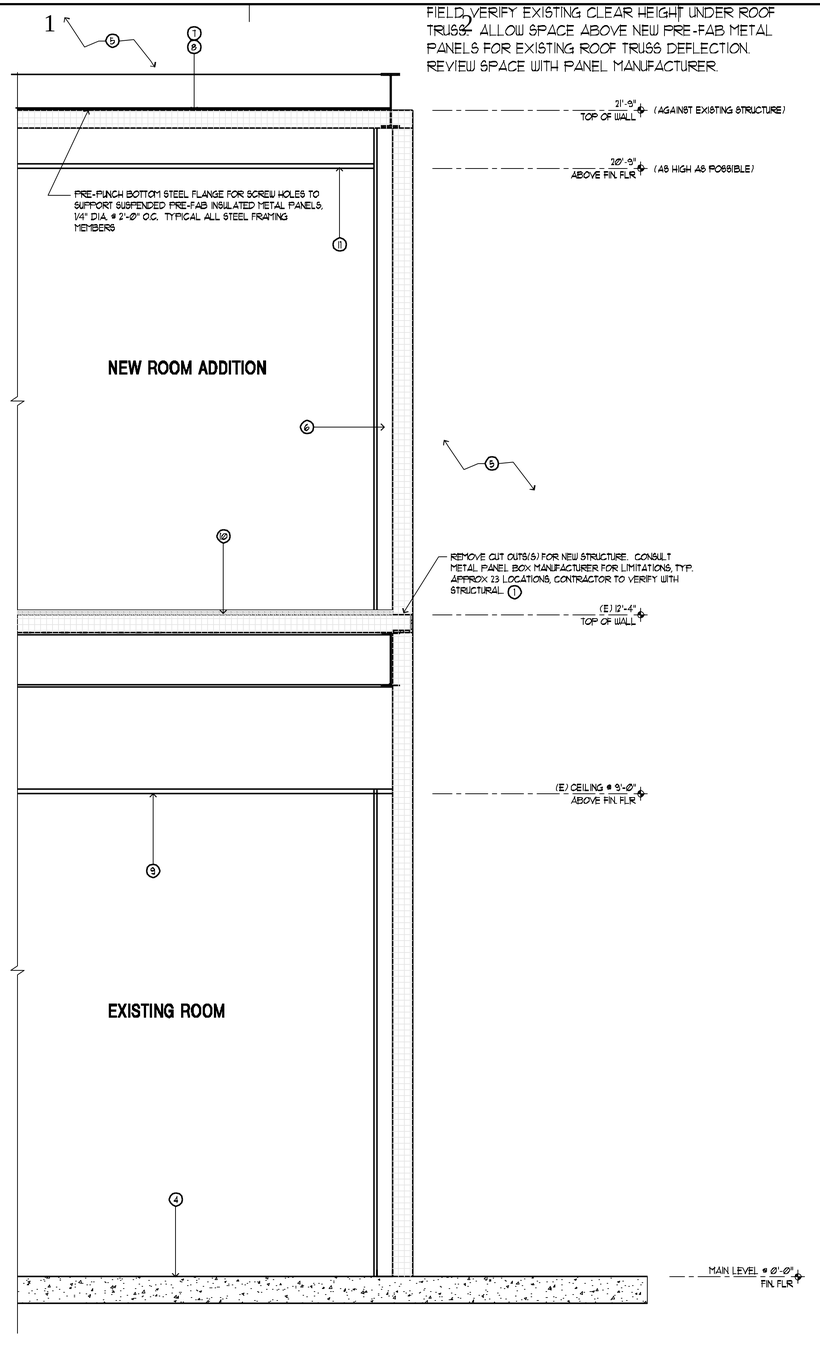
SHEET TITLE

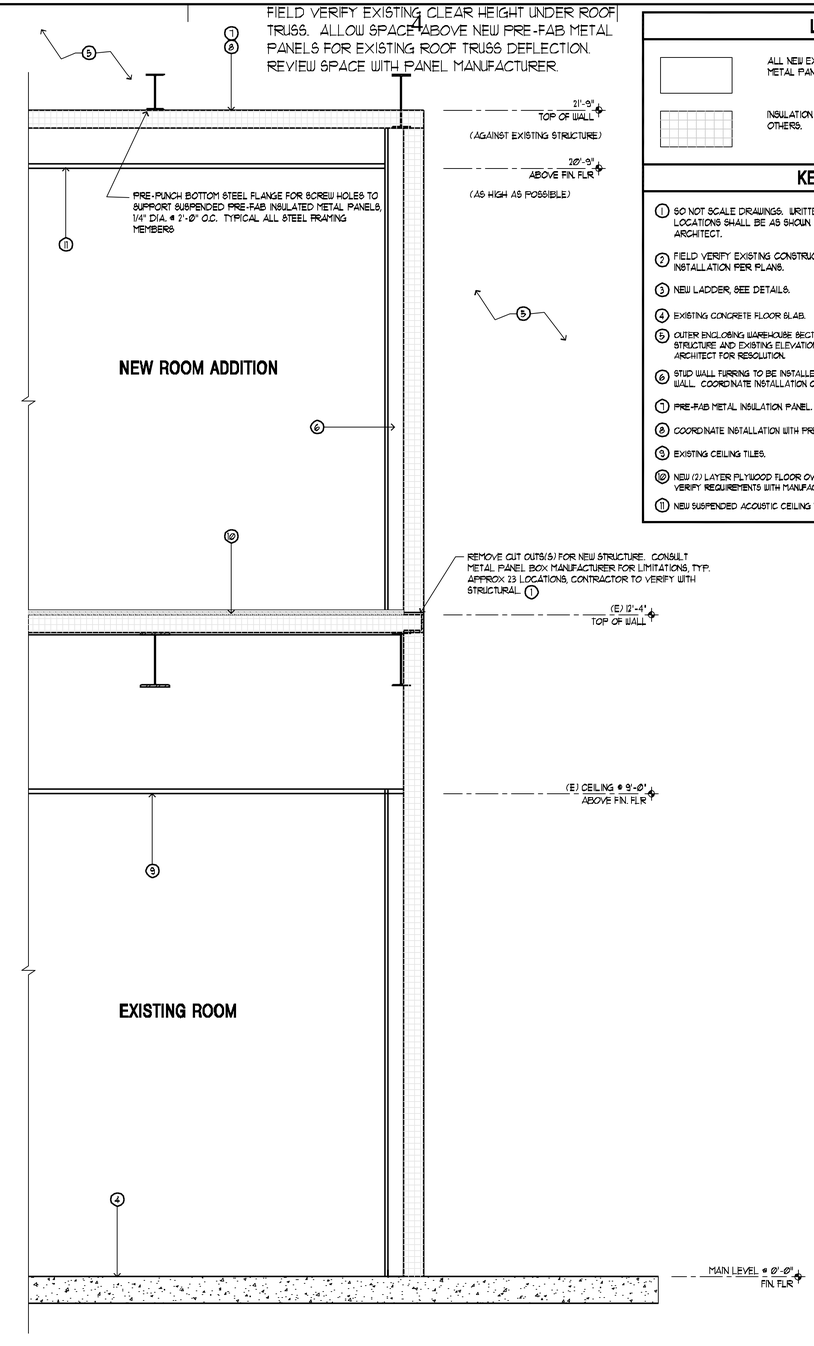
STAIR PLAN AND SECTION

SHEET NUMBER

A302



WALL SECTION 2A A401
SCALE: 1/2" = 1'-0"



WALL SECTION 4A A401
SCALE: 1/2" = 1'-0"

LEGEND

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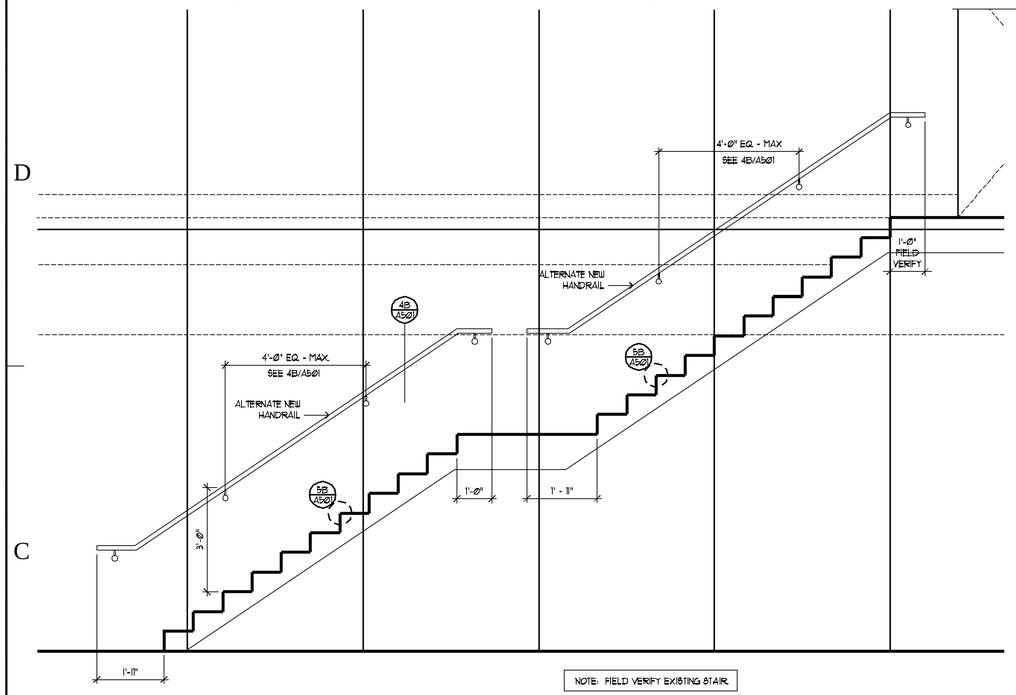
SHEET TITLE

WALL
SECTIONS

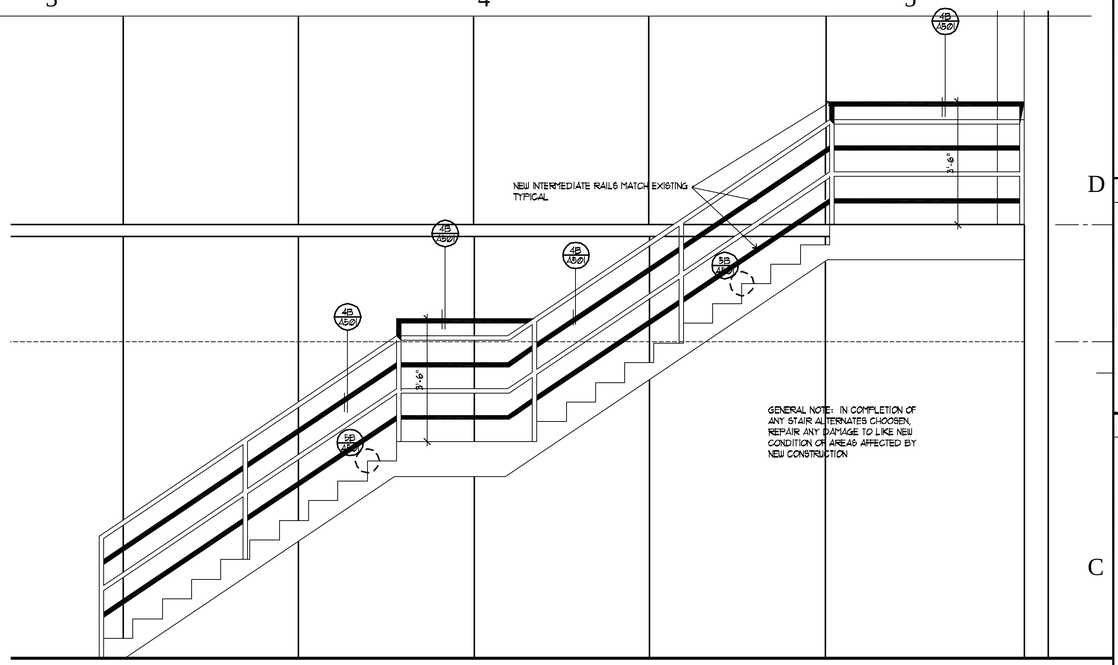
SHEET NUMBER

A401



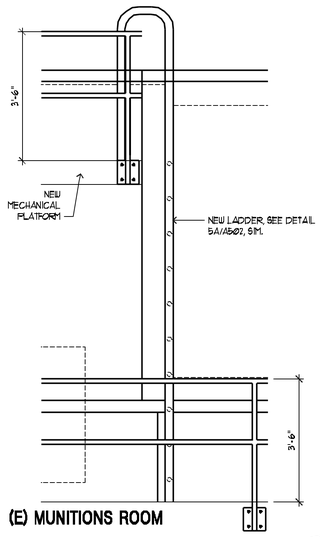
NOTE: FIELD VERIFY EXISTING STAIR.

STAIR SECT. ALT ADD 2ND HANDRAIL 3C A501
SCALE: 1/2" = 1'-0"

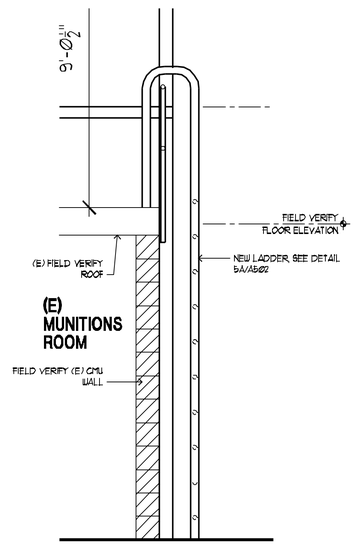


NOTE: FIELD VERIFY EXISTING STAIR.

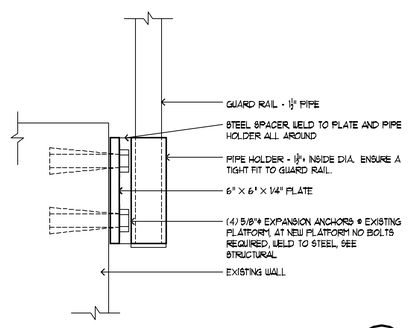
ALTERNATE - SEE SPECS.
STAIR ELEV. OPTION ADD INTERMEDIATE RAILS 3C A501
SCALE: 1/2" = 1'-0"



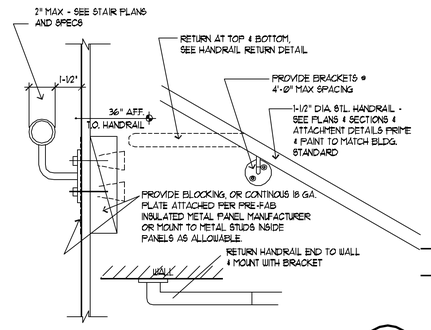
UPPER LEVEL LADDER SECTION 1A A501
SCALE: 1/2" = 1'-0"



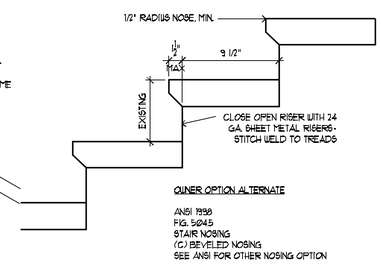
LOWER LEVEL LADDER SECTION 5B A501
SCALE: 1/2" = 1'-0"



REMOVABLE GUARD RAIL DETAIL 3B A501
SCALE: 3" = 1'-0"



HAND RAILING 4B A501
SCALE: 1½" = 1'-0"
DT-RL-04



ALT UPGRADE TO (E) STAIR TREADS AND RISERS 5B A501
SCALE: 1½" = 1'-0"

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JLTC WAREHOUSE SCIF O. D. D. OGDEN, UTAH

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OGDEN, UTAH JLTC FACILITY AT OGDEN DEFENSE DEPOT

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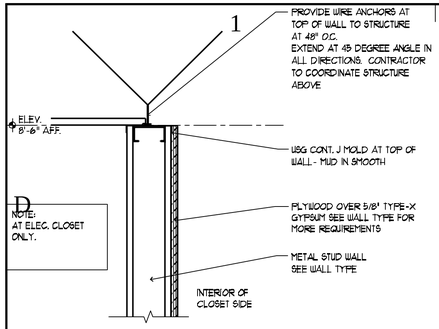
SHEET TITLE

STAIR AND LADDER DETAILS

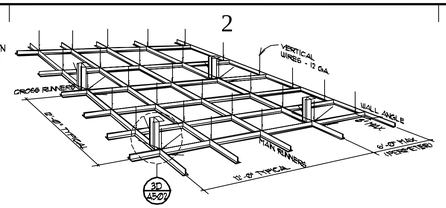
SHEET NUMBER

A501



CEILING DETAIL AT WALL TO CLG. GRID (ALT.) — 1D / A502

SCALE: 1" = 1'-0" DT-CL-01

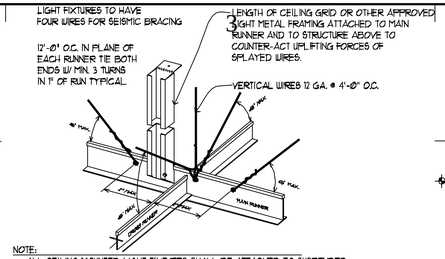


STANDARD NOTES: MODIFY AS REQ'D FOR PRE-FAB METAL PANELS (MATCH EXISTING)

1) CEILING AREAS OF 144 SQ. FT. OR LESS SURROUNDED BY WALLS WHICH CONNECT DIRECTLY TO THE STRUCTURE ABOVE SHALL NOT REQUIRE THE DIAGONAL BRACING WIRES.
2) EACH VERTICAL WIRE SHALL BE ATTACHED EACH END WITH MIN. 5 TURNS.
3) CEILING GRID SHALL BE INSTALLED LEVEL TO WITHIN 1/8" IN 12 FEET.
4) LOCAL KINKS OR BENDS SHALL NOT BE MADE IN HANGER WIRES AS A MEANS OF LEVELING MAIN RUNNERS.
5) ALL WIRE LOOPS SHALL BE TIGHTLY WRAPPED AND SHARPLY BENT.

SUSPENDED CEILING DETAIL — 2D / A502

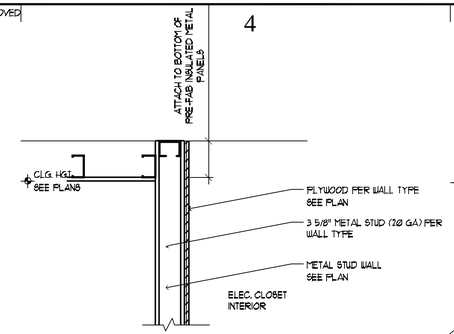
SCALE: 1" = 1'-0" DT-CL-02



NOTE:
ALL CEILING MOUNTED LIGHT FIXTURES SHALL BE ATTACHED TO SUSPENDED CEILING GRID. IN ADDITION 12 GA. HANGER WIRES SHALL BE ATTACHED TO THE GRID WITHIN 3" OF EACH CORNER OF THE FIXTURE. TWO ADDITIONAL WIRES SHALL BE CONNECTED TO THE LIGHT HOUSING AND TO THE STRUCTURE ABOVE.
WIRES SHALL NOT ATTACH TO OR BEND AROUND INTERFEARING MATERIAL OR EQUIPMENT, NOR SHALL THEY BE CLOSER THAN 6" FROM ANY UN-BRACED HORIZONTAL PIPING OR DUCTWORK. A TRAPEZE OR SIMILAR DEVICE SHALL BE USED WHERE OBSTRUCTIONS OCCUR.

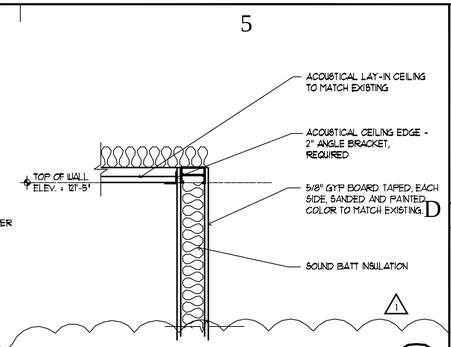
SUSPENDED CEILING DETAIL — 3D / A502

SCALE: 1" = 1'-0" DT-CL-03



CEILING DETAIL AT WALL TO CLG. GRID (ALT.) — 4D / A502

SCALE: 1" = 1'-0" DT-CL-04

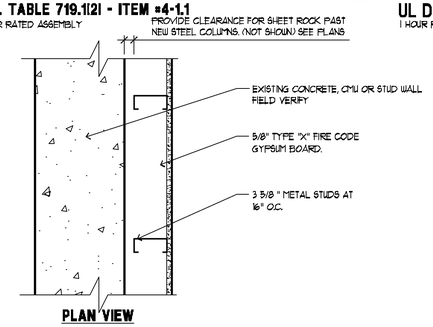


CEILING DETAIL — 5D / A502

SCALE: 1" = 1'-0" DT-CG-06

I.B.C. TABLE 719.1(2) - ITEM #4-1.1

3 HOUR RATED ASSEMBLY

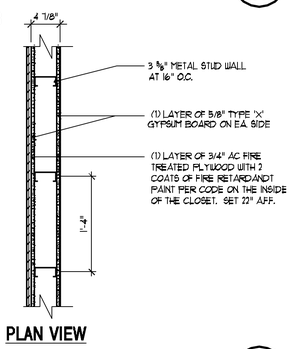


WALL TYPE 'A' - STUD WALL FURR OUT ON CONCRETE WALL — 1C / A502

SCALE: 1 1/2" = 1'-0"

UL DESIGN # U423

1 HOUR RATED ASSEMBLY

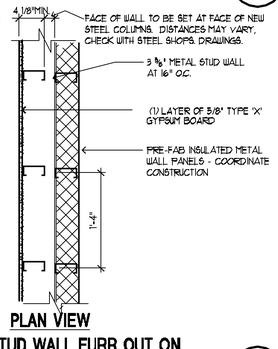


WALL TYPE 'B' METAL (OR WOOD) STUD WALL — 2C / A502

SCALE: 1" = 1'-0" A81-02

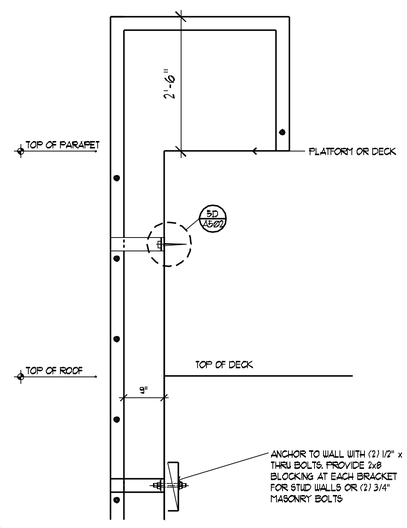
UL DESIGN # U423

1 HOUR RATED ASSEMBLY



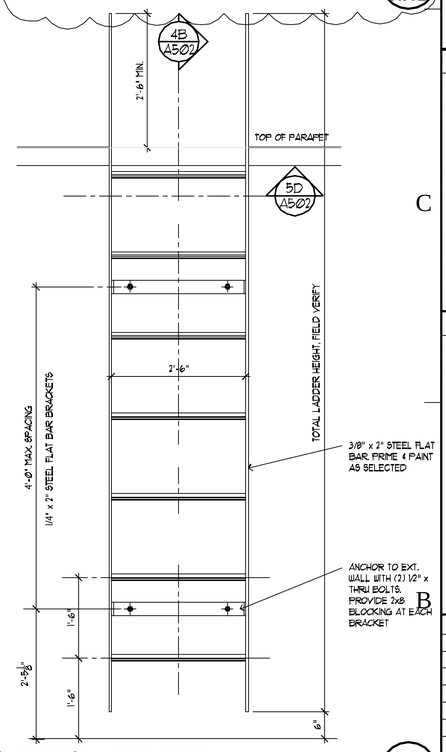
WALL TYPE 'C' - STUD WALL FURR OUT ON PRE-FAB. INSULATION WALL PANEL — 3C / A502

SCALE: 1" = 1'-0"



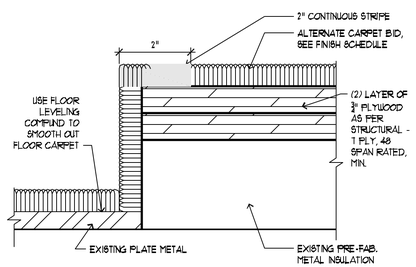
EXTERIOR LADDER SECTION — 4B / A502

SCALE: 3/4" = 1'-0" DA-MB-05



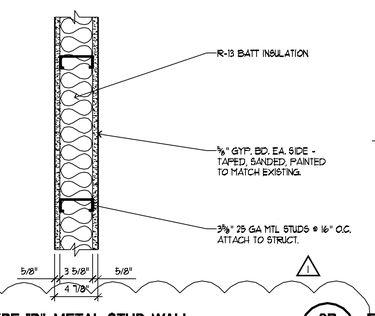
EXTERIOR LADDER DETAIL — 5B / A502

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



STEP DETAIL — 1B / A502

SCALE: 6" = 1'-0"



WALL TYPE "D", METAL STUD WALL — 2B / A502

SCALE: 1 1/2" = 1'-0" DT-LL-04

NON ACCESSIBLE

ACCESSIBLE SIGNAGE FOR PERSONS WITH DISABILITIES

1 ACCESSIBLE SIGNS SHOULD IDENTIFY PERMANENT ROOMS AND SPACES, INCLUDING ROOM NUMBERS, EMERGENCY EXITS, AND TOILET FACILITIES. IF ROOM NUMBERS ARE NOT USED, SIGNS SUCH AS "CAFETERIA" MUST BE ACCESSIBLE.

A. LETTERS AND NUMERALS: RAISED 1/32 IN. MINIMUM, UPPERCASE, SANS SERIF, 5/8 TO 2 IN. IN HEIGHT, AND ACCOMPANIED BY GRADE 2 BRAILLE.

B. PICTOGRAM BORDERS SHOULD BE AT LEAST 6 IN. HIGH.

C. SURFACES SHOULD HAVE A NONGLARE FINISH; LEVEL OF SHEEN MUST BE "EGGSHELL" OR LESS.

D. PROVIDE CONTRAST BETWEEN THE CHARACTERS AND BACKGROUND.

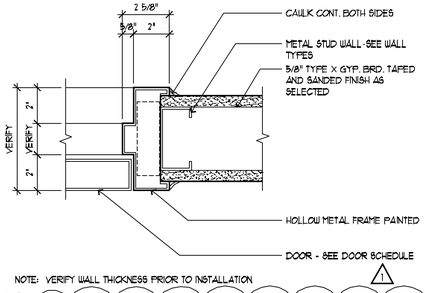
E. MOUNTING: 60 IN. ABOVE FINISHED FLOOR TO CENTERLINE OF SIGN, PREFERABLY ON THE LATCH SIDE OF DOOR OR THE CLOSEST WALL SPACE. DO NOT MOUNT WITHIN THE SWINGING PATH OF A DOOR OR WHERE A PERSON CANNOT APPROACH WITHIN 3 IN. OF THE SIGN.

2 DIRECTIONAL AND INFORMATIONAL SIGNS FOR PERMANENT FUNCTIONAL SPACES (SUCH AS SIGNS TO AUDITORIUMS OR ELEVATORS) SHOULD BE ACCESSIBLE. A. CHARACTER PROPORTIONS SHOULD COMPLY WITH ADAAG 4.30.2. B. CHARACTERS SHOULD BE AT LEAST 3 IN. HIGH; INCREASE CHARACTER HEIGHT AS VIEWING DISTANCE INCREASES.

3 IDENTIFY SUCH ACCESSIBLE FEATURES AS ASSISTIVE LISTENING DEVICES, PARKING, AND TEXT TELEPHONES. WHEN NOT ALL SUCH FEATURES ARE ACCESSIBLE, IDENTIFY THE ACCESSIBLE ONES (E.G., TOILET ROOMS AND PARKING) AND PROVIDE DIRECTIONAL SIGNAGE FROM INACCESSIBLE ONES. USE PICTOGRAMS AT LEAST 6 IN. HIGH ACCOMPANIED BY A VERBAL DESCRIPTION.

SIGNAGE DETAILS AND NOTES — 1A / A502

SCALE: NTS = 1'-0" A810-14



NOTE: VERIFY WALL THICKNESS PRIOR TO INSTALLATION

DOOR DETAIL — 2A / A502

SCALE: 3" = 1'-0"

DOOR SCHEDULE - Alternate - (BASE BID DOORS UNDER SEPARATE CONTRACT)

MARK	DOOR SIZE WIDTH	DOOR SIZE HEIGHT	DOOR THICKNESS	DOOR MATERIAL	DOOR TYPE	DOOR FINISH	FRAME DETAILS HEAD	FRAME DETAILS JAMB	FRAME DETAILS SILL	FRAME MATERIAL	FRAME TYPE	FRAME FINISH	FIRE RATING	HARDWARE	REMARKS
100A	3'-0"	7'-0"	1-3/4"	WD	-	MATCH (E)	-	-	-	WD	-	-	-	SEE SPEC	-
100B	3'-0"	7'-0"	1-3/4"	HM	-	MATCH (E)	-	-	-	HM	-	-	20 MIN.	SEE SPEC	SOLID GROUT JAMB, SPECIAL SOUND DOOR STC 55
101A	3'-0"	7'-0"	1-3/4"	WD	-	MATCH (E)	2A/A502	2A/A502	-	HM	-	-	20 MIN.	SEE SPEC	
102A	3'-0"	7'-0"	1-3/4"	WD	-	MATCH (E)	2A/A502	2A/A502	-	HM	-	-	20 MIN.	SEE SPEC	

FINISH SCHEDULE

ALTERNATE	FLOOR	MARK	MATERIAL	MANUFACTURER	DESCRIPTION	DETAIL	REMARKS
		F-1	CARPET	ALTERNATE	BY STATE CONTRACT	-	NOTE: STEP DETAIL 2B/A502
ALTERNATE	BASE	MARK	MATERIAL	MANUFACTURER	DESCRIPTION	DETAIL	REMARKS
		B-1	TOP SET RUBBER BASE	BY STATE CONTRACT	-	-	-
	WALLS	MARK	MATERIAL	MANUFACTURER	DESCRIPTION	DETAIL	REMARKS
		W-1	PAINTED GYP. BD.	PRATT & LAMBERT	WATER BASED, 2 COATS	-	TO MATCH EXISTING
	CEILING	MARK	MATERIAL	MANUFACTURER	DESCRIPTION	DETAIL	REMARKS
		C-1	ACOUSTICAL TILE CEILING	ARMSTRONG	SUSPENDED CEILING TILE	2D/A502	TO MATCH EXISTING

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SCIF
O. D. D.
OGDEN, UTAH

PROJECT TITLE: SCIF

OGDEN, UTAH
JLTC FACILITY
AT
OGDEN
DEFENSE
DEPOT

MARK	DATE	DESCRIPTION
1	9-20-04	REVISION 1

ISSUE TYPE: BID SET

ISSUE DATE:
SEPTEMPBER 8, 2004

DFCM PROJECT NO: 03220480
JSA PROJECT NO: 0358
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SHEET TITLE

WALL TYPES & ARCHITECTURAL DETAILS

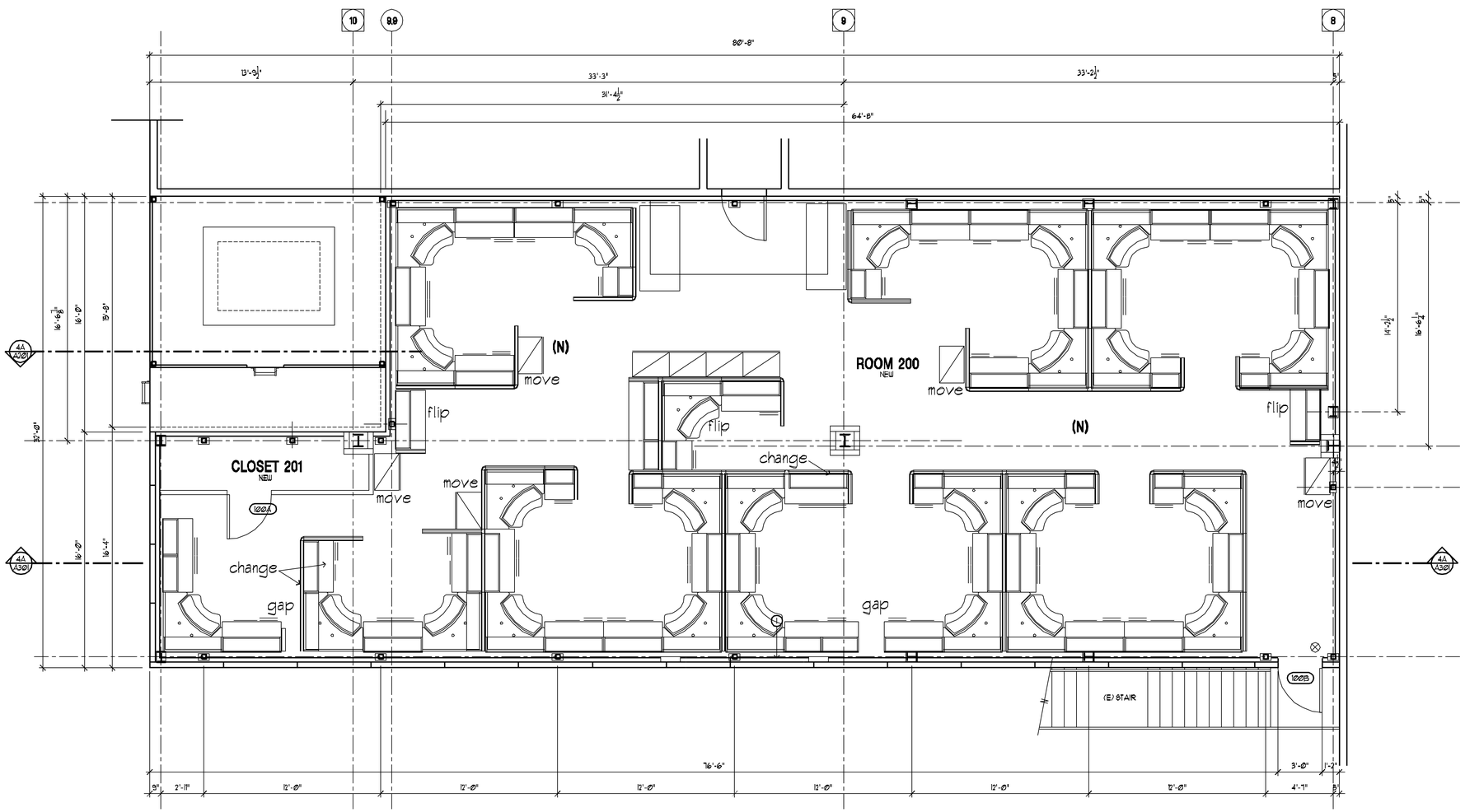
SHEET NUMBER

A502

SHEET 20 OF 28

GENERAL NOTES

1. SYSTEMS FUNITURE INSTALLED UNDER SEPARATE CONTRACT.
2. SYSTEMS FURNITURE REQUIREMENTS - ELECTRICAL, DATA, AND PHONE.



FIXTURE, FURNITURE, & EQUIPMENT LAYOUT PLAN 4A A701
SCALE: 1/4" = 1'-0"

N

NOTE:
FOR REFERENCE ONLY

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1	9-20-04	REVISION 1

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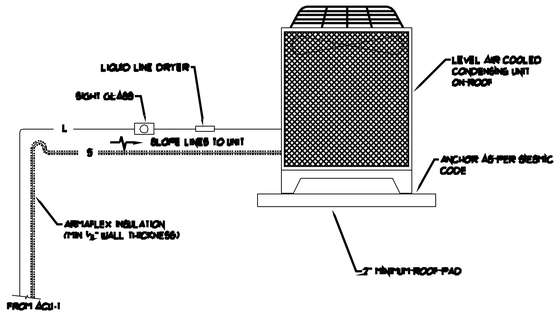
SHEET TITLE

FIXTURE,
FURNITURE, &
EQUIP. LAYOUT

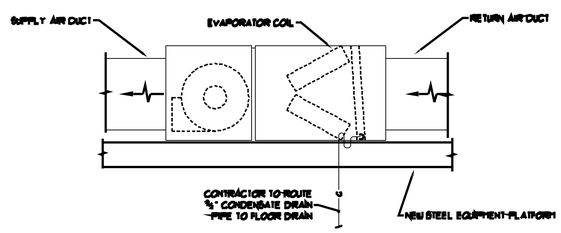
SHEET NUMBER

A701

SHEET 21 OF 28



1 / M0.1 CONDENSING UNIT INSTALLATION DETAIL



2 / M0.1 AIR HANDLER DETAIL

GENERAL NOTES:

1. (S) INDICATES POINT OF CONNECTION OF NEW TO EXISTING MECHANICAL EQUIPMENT, PIPING OR DUCTWORK.
2. COORDINATE ALL FIRE SPRINKLER HEADS AND AIR DEVICE LOCATIONS WITH REFLECTED CEILING PLANS AND ELECTRICAL DRAWINGS.
3. ALL RIGID ROUND DUCTWORK SHALL RECEIVE 1-1/2" - 0.75 LB/SQ.FT. FIBERGLASS DUCT WRAP. ALL LOW PRESSURE RECTANGULAR DUCT SHALL RECEIVE 1" - 1.5 LB/SQ.FT. DUCT LINER. ATTACH TO DUCT WITH MECHANICAL FASTENERS AND TRIM AND SEAL JOINTS. LOW PRESSURE ROUND FLEXIBLE DUCT TO BE 1-1/2" THICK INSULATED AND A MAXIMUM OF 6 FT. LONG. ALL INSULATION TO MEET NFPA 90 PER UL 181-CLASS 1.
4. DUCTWORK AND PIPE ROUTING AS SHOWN ON DRAWINGS IS DIAGRAMMATIC AND IS NOT TO BE SCALED. WHERE ALTERNATE ROUTING, OFFSETS AND TRANSITIONS ARE REQUIRED FOR COORDINATION OF WORK, THE CONTRACTOR SHALL MAKE CHANGES WITHOUT ADDITIONAL COSTS.
5. THE CONTRACTOR SHALL CLOSELY COORDINATE NEW MECHANICAL WITH NEW AND EXISTING MECHANICAL, ELECTRICAL, ARCHITECTURAL AND BUILDING STRUCTURE.
6. THE CONTRACTOR SHALL FIELD VERIFY ALL MECHANICAL ITEMS PRIOR TO STARTING NEW WORK. ADDITIONAL COST WILL NOT BE ALLOWED FOR CONTRACTOR'S FAILURE TO BECOME FAMILIAR WITH EXISTING SITE CONDITIONS.
7. THE CONTRACTOR SHALL USE SMACNA DUCT CONSTRUCTION STANDARDS FOR SHEET METAL DUCTS. ALL HIGH PRESSURE DUCTWORK UPSTREAM OF VAV TERMINAL BOXES SHALL BE CONSTRUCTED FOR 2" W.G. STATIC PRESSURE, SEAL CLASS "A". ALL OTHER DUCTWORK (UNLESS OTHERWISE NOTED ON FLOOR PLANS) SHALL BE CONSTRUCTED OF 1" W.G. SEAL CLASS "B"
8. ALL MECHANICAL SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE CURRENT ADOPTED EDITION OF THE BUILDING CODES, FIRE CODES, MECHANICAL CODES AND PLUMBING CODES.
9. THE CONTRACTOR SHALL PROVIDE SUBMITTALS ON ITEMS LISTED IN MECHANICAL EQUIPMENT LIST TO THE ENGINEER FOR REVIEW PRIOR TO THE ORDER, PURCHASE OR INSTALLATION.
10. ALL VAV BOXES WATER FLOW RATES AND DIFFUSERS MUST BE BALANCED TO THE VALUES INDICATED ON THE FLOOR PLANS. PROVIDE BALANCE REPORT TO ENGINEER PRIOR TO PROJECT CLOSEOUT.
11. DUCT DIMENSIONS SHOWN ARE INSIDE CLEAR DIMENSIONS.
12. CONTROLS SHALL MATCH THE CONTROLS USED IN THE SHELL BUILDING. (CONTROLS BY STAEFA) COORDINATE WITH OWNER'S CONSTRUCTION GUIDELINES.
13. ALL DOMESTIC AND HEATING WATER PIPING SHALL BE TYPE "L" COPPER. ALL WASTE AND VENT PIPING SHALL BE CAST IRON.
14. VENT THE HIGH POINTS OF NEW MECHANICAL PIPING.
15. ——— INDICATES EXISTING, ——— INDICATES NEW MATERIAL.
16. THE CONTRACTOR SHALL NOT SHUTOFF/ PUT OUT OF SERVICE ANY SYSTEMS/SERVICES WITHOUT FIRST COORDINATING ALL DOWNTIME WITH THE OWNER'S PERSONNEL.

ABBREVIATIONS

ø	ROUND OR DIAMETER	MBH	THOUSAND BRITISH THERMAL UNITS/HOUR
AD	ACCESS DOOR	MECH	MECHANICAL
AF	AIRFOIL	MIN	MINIMUM
AFF	ABOVE FINISHED FLOOR	NC	NOISE CRITERIA OR NORMALLY CLOSED
ALT	ALTERNATE	NIC	NOT IN CONTRACT
BI	BACKWARD INCLINED	NO.	NUMBER
BOD	BOTTOM OF DUCT	NOM	NOMINAL
BOP	BOTTOM OF PIPE	NTS	NOT TO SCALE
BTUH	BRITISH THERMAL UNITS PER HOUR	OA	OUTSIDE AIR
CAP.	CAPACITY	OBD	OPPOSED BLADE DAMPER
CFM	CUBIC FEET PER MINUTE	OD	OVERFLOW DRAIN
CV	CONSTANT VOLUME	OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
DB	DRY BULB	OFOI	OWNER FURNISHED, OWNER INSTALLED
DIA	DIAMETER	PD	PRESSURE DROP
DSN	DOWN SPOUT NOZZLE	POC	POINT OF CONNECTION
DW	DISHWASHER	PRV	PRESSURE REDUCING VALVE
(E)	EXISTING	PSI	POUNDS PER SQUARE INCH
EAT	ENTERING AIR TEMPERATURE	PSIG	POUNDS PER SQUARE INCH GAUGE
EFF	EFFICIENCY	RA	RETURN AIR
ELEV	ELEVATION	RAD	RADIUS
ENCL	ENCLOSURE	RD	ROOF DRAIN
ESP	EXTERNAL STATIC PRESSURE	RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
ET	EXPANSION TANK	SA	SUPPLY AIR
EWC	ELECTRIC WATER COOLER	SEN	SENSIBLE
EWT	ENTERING WATER TEMPERATURE	SIM	SIMILAR
FCO	FLOOR CLEANOUT	SL	SEA LEVEL
FD	FLOOR DRAIN	SP	STATIC PRESSURE
FPM	FEET PER MINUTE	SQ FT	SQUARE FEET
FS	FLOOR SINK	SS	SERVICE SINK OR STAINLESS STEEL
FT	FEET	TOD	TOP OF DUCT
FV	FACE VELOCITY	TSP	TOTAL STATIC PRESSURE
GA	GAUGE	U	URINAL
GAL	GALLON	VAV	VARIABLE AIR VOLUME
GD	GARAGE DRAIN	VD	VOLUME DAMPER
GPM	GALLONS PER MINUTE	VFD	VARIABLE FREQUENCY DRIVE
HP	HORSEPOWER	VOL	VOLUME
HR	HOUR	VTR	VENT THROUGH ROOF
HT	HEIGHT	W/	WITH
IN.	INCH	W/O	WITHOUT
INWC	INCHES OF WATER COLUMN	WB	WET BULB
INWG	INCHES OF WATER GAUGE	WC	WATER CLOSET
L	LAVATORY	MVD	MANUAL VOLUME DAMPER
LAT	LEAVING AIR TEMPERATURE	WCO	WALL CLEANOUT
LBS	POUNDS	WPD	WATER PRESSURE DROP
LWT	LEAVING WATER TEMPERATURE	WT	WEIGHT
MAX	MAXIMUM		

MECHANICAL LEGEND

- RETURN OR EXHAUST DUCT DOWN
- RETURN OR EXHAUST DUCT UP
- SUPPLY AIR DUCT DOWN
- SUPPLY AIR DUCT UP
- SPIN-IN FITTING-SPIVD
- FLEXIBLE DUCT CONNECTION
- CEILING SLOT DIFFUSER
- CEILING DIFFUSER
- CEILING EXHAUST GRILLE
- CEILING GRILLE
- ACCESS PANEL
- MANUAL VOLUME DAMPER
- MOTORIZED DAMPER
- FIRE DAMPER
- COMBINATION FIRE/SMOKE DAMPER
- TRANSITION (SINGLE LINE DUCTWORK)
- THERMOSTAT OR TEMP SENSOR
- POINT OF CONNECTION TO EXISTING
- DETAIL TAG — DETAIL NO. / DRAWING NO.
- KEYED NOTE — NOTE NO.
- SECTION CUT LINE — SECTION NO. / DRAWING NO.

AIR DEVICE SCHEDULE

PLAN CODE	TYPE & DUTY	NECK SIZE	CEILING TYPE	N.C. LEVEL MAX	MAX. CFM	MANUFACTURER & MODEL NO.	REMARKS
1	SQUARE SUPPLY	12"Ø	LAY-IN	25	300	KRUEGER 842	PROVIDE WITH OBD
2	SQUARE RETURN	N/A	LAY-IN	25	500	KRUEGER 884	.

AIR HANDLER SCHEDULE AH-

PLAN CODE	CFM (ALT.)	ESP (ALT.) IN.	MIN. O.A. CFM	WINTER EAT DB	WINTER LAT DB	ELECTRIC HEAT (KW)	SUMMER EAT DB	SUMMER EAT WB	SUMMER LAT DB	TOTAL COOLING CAPACITY MBH	CONTROL	FAN HP	VOLT/PH	MANUFACTURER & MODEL NO	ACCESSORIES
AH-1 AH-2	1750	0.6	N/A	55	95	ECS75-10 (10.0)	80	67	55	170	TXV	1/2	208/1	LENNOX CBX27M-036-P WITH COIL: CX36BXM6-4817	PROVIDE 7 DAY PROGRAMMABLE THERMOSTAT AND LINE BLOCK. CONDENSING UNITS TO PROVIDE FACTORY INSTALLED HIGH AND LOW PRESSURE SWITCHES, FACTORY INSTALLED ACCUMULATOR, SIDE DISCHARGE, MAXIMUM SOUND LEVEL 70dB.

CONDENSING UNIT CU-

PLAN CODE	WEIGHT (LBS.)	COND. FAN (RPM)	TOTAL COOLING CAPACITY (MBH)	ENTERING AIR (°F)	SEER	MCA (AMP.)	VOLT/PH	FAN HP	MANUFACTURER & MODEL NO	ACCESSORIES
CU-1 CU-2	305	820	60.	95	13	23.5	208/1	½	LENNOX HSS6-036-Y	

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RM# N/A
JLTC WAREHOUS
SCIF
O. D. D.
OGDEN, UTAH

PROJECT TITLE: SCIF

OGDEN, UTAH
JLTC FACILITY
AT
OGDEN DEFENSE DEPOT

MARK	DATE	DESCRIPTION

ISSUE TYPE: BID SET

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CAD DWG FILE: 0358
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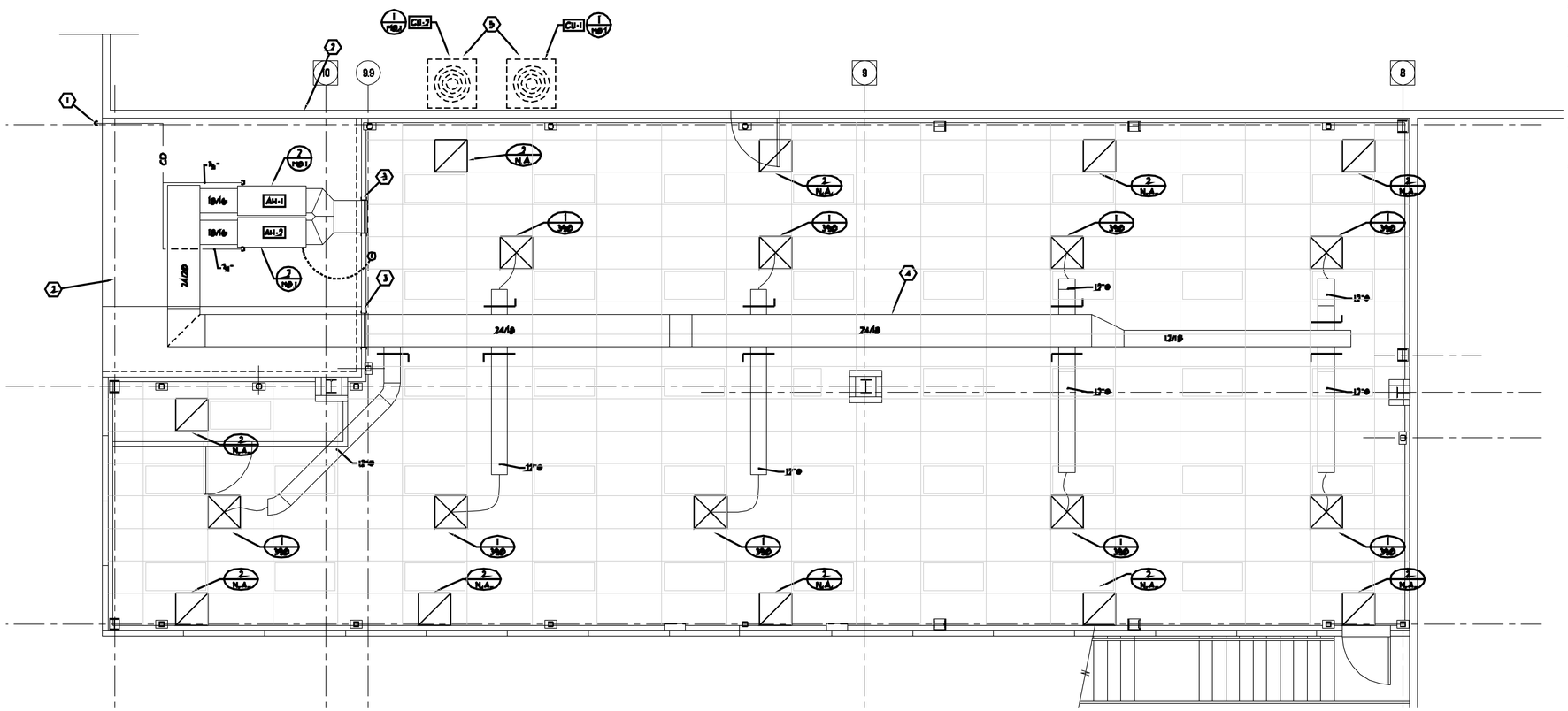
MECHANICAL SCHEDULES

SHEET NUMBER

M0 01



2ND FLOOR MECHANICAL PLAN

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

1 / M21

KEYED NOTES

1. DROP ¾" CONDENSATE DRAIN DOWN TO FLOOR DRAIN IN THE APPROXIMATE LOCATION.
2. NEW AIR HANDLING UNITS SHALL BE PLACED ON NEW STRUCTURAL STEEL PLATFORM.
3. 5/8" SECURITY BARS WELDED TO 1/4" WALL FLANGE SHALL BE PROVIDED AND INSTALLED AT ROOF PENETRATION. SEE EXISTING LOWER LEVEL SECURITY BAR FOR BUILDING AND INSTALL FOR DETAILS.
4. ALL DUCTWORK SHALL BE ROUTED ABOVE STRUCTURE FOR NEW ROOM LID. SEE ARCHITECTURAL PLANS FOR LID DETAILS.
5. CONDENSING UNITS SHALL LOCATED ON ROOF AS CLOSE TO AIR HANDLING UNIT AS POSSIBLE. ROOF SHALL BE REPAIRED AT LINE SET PENETRATION TO MAINTAIN WATER TIGHT, SEE DETAIL 1/M3.1 FOR CONDENSING UNIT PIPE CONFIGURATION.

File name: K:\PROJECTS\2003\0305100\NATIONAL GUARD SKIFF\M2-1.DWG Last edited: 09/08/03 @ 07:35

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MECHANICAL FLOOR PLAN

SHEET NUMBER

M2 01

DIVISION 15 - MECHANICAL

SECTION 15000
MECHANICAL GENERAL PROVISIONS

A. GENERAL CONDITIONS

1. DRAWINGS AND GENERAL PROVISIONS OF CONTRACT, INCLUDING GENERAL AND SUPPLEMENTARY CONDITIONS AND ALL OTHER SPECIFICATION SECTIONS ARE A PART OF THIS CONTRACT AND APPLY TO THIS AND THE OTHER SECTIONS OF DIVISION 15.

2. THE CONTRACTOR FOR THIS WORK IS REQUIRED TO READ THE ENTIRE SPECIFICATIONS AND REVIEW DRAWINGS FOR ALL OTHER TRADES.

3. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING HIS SUBCONTRACTORS WITH A FULL SET OF BID SET DOCUMENTS (INCLUDING SPECIFICATIONS) AND THE COORDINATION OF HIS WORK AND INSPECTIONS AND THE WORK AND INSPECTIONS OF HIS SUBCONTRACTORS WITH ALL OTHER TRADES ON SITE CONFORMING TO THE GENERAL CONTRACTOR'S TIME SCHEDULE.

4. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMITTING HIS BID TO DETERMINE CONDITIONS AFFECTING THE WORK. BIDS SHALL SERVE AS EVIDENCE REQUIRED TO MEET THE INTENT OF THE DRAWINGS AND SPECIFICATIONS. FAILURE TO VISIT THE SITE DOES NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY IN PERFORMANCE OF WORK.

5. WHEN USED, THE TERM "PROVIDED BY CONTRACTOR" SHALL BE INTERPRETED AS MEANING "FURNISHED AND INSTALLED" WITH THE EXCEPTION WHERE ITEMS ARE "PROVIDED BY TENANT" WHICH MEANS "FURNISHED ONLY" (INSTALLED BY CONTRACTOR), EXCEPT AS SPECIFICALLY NOTED OTHERWISE.

B. GENERAL REQUIREMENTS

1. THE CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIAL, EQUIPMENT, SERVICES, TOOLS, TRANSPORTATION, INCIDENTALS AND DETAILS NECESSARY TO PROVIDE A COMPLETE AND FULLY FUNCTIONAL MECHANICAL SYSTEM AS SHOWN ON THE DRAWINGS, CALLED FOR THE SPECIFICATIONS, AND AS REQUIRED BY JOB CONDITIONS. ALL WORK NOT SPECIFICALLY NOTED AS BEING BY THE LANDLORD SHALL BE PROVIDED BY THE MECHANICAL CONTRACTOR. CLOSELY COORDINATE THE ENTIRE INSTALLATION WITH THE LANDLORD, AS REQUIRED. FIELD VERIFY THE EXACT TYPE, SIZE AND LOCATION, ETC. OF EXISTING PIPE AND DUCTS IN THE TENANT SPACE PRIOR TO BID.

2. THE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO SUPPLEMENT EACH OTHER AND ANY MATERIAL OR LABOR CALLED FOR IN ONE SHALL BE PROVIDED EVEN THOUGH NOT SPECIFICALLY MENTIONED IN BOTH. ANY MATERIAL OR LABOR WHICH IS NEITHER SHOWN ON THE DRAWINGS NOR CALLED FOR IN THE SPECIFICATIONS, BUT WHICH IS OBVIOUSLY NECESSARY TO COMPLETE THE WORK, AND WHICH IS USUALLY INCLUDED IN WORK OF SIMILAR CHARACTER, SHALL BE PROVIDED AS PART OF CONTRACT.

3. WHERE THE DRAWINGS OR SPECIFICATIONS CALL FOR ITEMS WHICH EXCEED CODES OR THE LANDLORD'S TENANT CRITERIA, THE CONTRACTOR IS STILL RESPONSIBLE FOR PROVIDING THE SYSTEM AS DESIGNED AND DESCRIBED ON THESE DRAWINGS, UNLESS SPECIFICALLY NOTED OTHERWISE.

4. ALL MECHANICAL WORK SHALL BE INSTALLED SO AS TO BE READILY ACCESSIBLE FOR OPERATING, SERVICING, MAINTAINING, AND REPAIRING. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING SUFFICIENT ACCESS TO ALL EQUIPMENT FOR SERVICE.

5. THE CONTRACTOR SHALL DO ALL CUTTING, CORE DRILLING, CHASING OR CHANNELING AND PATCHING REQUIRED FOR ANY WORK UNDER THIS DIVISION. CUTTING SHALL HAVE PRIOR APPROVAL BY THE TENANT'S CONSTRUCTION MANAGER AND THE LANDLORD. PATCHING SHALL MATCH FINISH OF SURROUNDING AREA.

C. CODES

1. ALL WORK SHALL BE PERFORMED IN A NEAT PROFESSIONAL MANNER USING GOOD ENGINEERING PRACTICES. ALL WORK SHALL CONFORM TO THE LANDLORD'S ORDINANCES, SAFETY AND HEALTH CODES, NFPA CODES, ENERGY CODES, AND ALL OTHER APPLICABLE CODES AND REQUIREMENTS. THE CONTRACTOR SHALL INQUIRE INTO AND COMPLY WITH ALL APPLICABLE CODES, ORDINANCES, AND REGULATIONS. AFTER CONTRACT IS ISSUED, NO ADDITIONAL COST DUE TO CODE ISSUES SHALL BE REIMBURSED BY THE TENANT TO THE CONTRACTOR.

D. LICENSES, PERMITS, INSPECTIONS & FEES

1. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL LICENSES, PERMITS, INSPECTIONS, AND FEES REQUIRED OR RELATED TO HIS WORK.

2. FURNISH TO THE TENANT'S CONSTRUCTION MANAGER ALL CERTIFICATES OF INSPECTION AND FINAL INSPECTION APPROVAL AT SUBSTANTIAL COMPLETION DATE OF PROJECT.

E. DRAWINGS

1. DRAWINGS (PLANS, SPECIFICATIONS, AND DETAILS) ARE DIAGRAMMATIC AND INDICATE THE GENERAL LOCATION AND INTENT OF THE MECHANICAL SYSTEMS. BECAUSE OF THE SMALL SCALE OF THE DRAWINGS, IT IS NOT POSSIBLE TO INDICATE ALL DUCT AND PIPING OFFSETS, FITTINGS AND ACCESSORIES THAT MAY BE REQUIRED.

2. THE LAYOUT SHOWN ON THE DRAWINGS IS BASED ON A PARTICULAR MAKE OF EQUIPMENT. IF ANOTHER MAKE OF EQUIPMENT IS USED WHICH REQUIRES MODIFICATION OR CHANGE OF ANY DESCRIPTION FROM THE DRAWINGS OR SPECIFICATIONS, THE CONTRACTOR SHALL BE RESPONSIBLE AS PART OF THIS WORK FOR MAKING ALL SUCH MODIFICATIONS AND CHANGES, INCLUDING THOSE INVOLVING OTHER TRADES WITH THE COST THEREOF INCLUDED IN HIS BID. IN SUCH CASE, CONTRACTOR SHALL SUBMIT DRAWINGS AND SPECIFICATIONS PRIOR TO STARTING WORK SHOWING ALL SUCH MODIFICATIONS AND CHANGES. HIS PROPOSAL SHALL BE SUBJECT TO THE APPROVAL OF THE TENANT'S CONSTRUCTION MANAGER.

F. EXISTING SHELL SPACE CONDITIONS

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF THE DEMOLITION OF EXISTING MECHANICAL WORK SHOWN ON THE MECHANICAL DRAWINGS AND THE MECHANICAL DEMOLITION SHOWN ON THE ARCHITECTURAL DRAWINGS.

2. THE CONTRACTOR SHALL INCLUDE, AND WILL BE HELD RESPONSIBLE FOR THE REMOVAL OF ALL EXISTING FIRE PROTECTION, PLUMBING FIXTURES, PIPING, HVAC UNITS, REFRIGERANT RECAPTURE, EXHAUST FAN, ETC. AND ASSOCIATED ROOF CURBS NOT TO BE REUSED ON THIS PROJECT, UNLESS SPECIFICALLY NOTED OTHERWISE. CONTRACTOR MUST VERIFY WITH THE LANDLORD ALL PRESUMED ABANDONED EQUIPMENT, PIPES, DUCTWORK, AND EQUIPMENT PRIOR TO REMOVAL. ROOF CURBS SHALL BE REMOVED AND THE ROOF PATCHED UNLESS NOTED FOR REUSE OR RECONFIGURATION ON PLANS. ROOF PATCHING SHALL BE PERFORMED AT THE CONTRACTOR'S EXPENSE BY A ROOFING CONTRACTOR APPROVED BY THE LANDLORD. ALL EXTRANEOUS ITEMS IN THE SPACE OR ON THE ROOF (ABOVE THIS SPACE) NOT APPLICABLE TO THE NEW WORK OR PART OF THE LANDLORD'S OR ANOTHER TENANT'S ACTIVE SYSTEM MUST BE REMOVED AND ROOF/WALL/FLOOR/PATCHED/REPAIRED TO MATCH EXISTING STRUCTURE. EXISTING ABANDONED PIPES, DUCTS, OR EQUIPMENT IN THE FLOOR, EMBEDDED IN CONCRETE, OR OTHERWISE INACCESSIBLE ARE TO BE CUT OFF AND SEALED BELOW OR WITHIN FLOOR OR WALL LEVEL WHEN THEY ARE NOT TO BE REUSED IN THIS PROJECT. IF REQUIRED BY LANDLORD OR CODES, ABANDONED PIPING AND/OR DUCTWORK MUST BE REMOVED TO POINT OF ORIGIN. CONFIRM THE EXTENT OF DEMOLITION PRIOR TO BID AND INCLUDE IN BID PROPOSAL.

3. ACTIVE LANDLORD OR OTHER TENANT SERVICES ENCOUNTERED IN WORK SHALL BE PROTECTED AND SUPPORTED. IF EXISTING SERVICES NOT ANTICIPATED REQUIRE RELOCATION, CONTACT THE TENANT'S CONSTRUCTION MANAGER IMMEDIATELY. ALL COSTS FOR REPAIR OF DAMAGES TO ACTIVE LANDLORD OR OTHER TENANT SERVICES DURING CONSTRUCTION SHALL BE PAID FOR BY THE CONTRACTOR CAUSING THE DAMAGE.

4. TIE-INS AND MODIFICATIONS TO EXISTING LANDLORD SERVICES MUST BE DONE WITH MINIMUM INTERRUPTION OF LANDLORD OPERATION AND DURING HOURS SPECIFIED BY THE LANDLORD. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING EXACT WORKING HOURS OF THIS WORK WITH THE LANDLORD PRIOR TO SUBMITTING HIS BID. THE CONTRACTOR SHALL INCLUDE IN HIS BID, ALL PREMIUM TIME REQUIRED TO PERFORM MODIFICATIONS DURING OTHER THAN NORMAL WORKING HOURS. ALL SUCH WORK MUST BE COORDINATED WITH THE LANDLORD.

G. DISCREPANCIES IN DOCUMENTS

1. DRAWINGS (PLANS, SPECIFICATIONS, AND DETAILS) ARE DIAGRAMMATIC AND INDICATE THE GENERAL LOCATION AND INTENT OF THE MECHANICAL SYSTEMS. WHERE DRAWINGS, EXISTING SITE CONDITIONS, SPECIFICATIONS OR OTHER TRADES CONFLICT OR ARE UNCLEAR, ADVISE THE GENERAL CONTRACTOR IN WRITING, PRIOR TO SUBMITTAL OF BID. THE GENERAL CONTRACTOR IS RESPONSIBLE TO ADVISE THE TENANT'S CONSTRUCTION MANAGER, IN WRITING, OTHERWISE, TENANT'S CONSTRUCTION MANAGER'S INTERPRETATION OF CONTRACT DOCUMENTS OR CONDITIONS SHALL BE FINAL WITH NO ADDITIONAL COMPENSATION PERMITTED.

H. TRADE NAMES AND MANUFACTURERS

1. WHERE TRADE NAMES AND MANUFACTURERS ARE USED ON THE DRAWINGS OR IN THE SPECIFICATIONS, THE EXACT EQUIPMENT SHALL BE USED AS A MINIMUM STANDARD FOR THE BASE BID. MANUFACTURERS CONSIDERED AS AN EQUAL OR BETTER IN ALL ASPECTS TO THAT SPECIFIED WILL BE SUBJECT TO APPROVAL IN WRITING BY THE TENANT'S CONSTRUCTION MANAGER PRIOR TO ACCEPTANCE. THE USE OF ANY UNAUTHORIZED EQUIPMENT SHALL BE SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.

I. SHOP DRAWINGS

1. SUBMIT SIX COPIES OF MATERIAL LISTS AND SHOP DRAWINGS FOR ALL EQUIPMENT AND DUCT FABRICATION DRAWINGS TO THE TENANT'S CONSTRUCTION MANAGER FOR APPROVAL PRIOR TO ORDERING EQUIPMENT. SUBMISSIONS MUST BE EARLY ENOUGH TO ALLOW THE TENANT'S CONSTRUCTION MANAGER EIGHT WORKING DAYS FOR REVIEW WITHOUT CAUSING DELAYS OR CONFLICTS TO THE JOB'S PROGRESS. SUBMITTALS SHALL BE IN ACCORDANCE WITH THE GENERAL CONDITIONS USING THE MANUFACTURER'S LISTED ON THE DRAWINGS. SHOP DRAWINGS SHALL INCLUDE ALL DATA THAT PERTAINS TO THE REQUIREMENTS SET FORTH ON THE DRAWINGS AND IN THE SPECIFICATIONS. THE SUBMITTAL SHALL INCLUDE BUT NOT LIMITED TO CUTS OR CATALOGS INCLUDING DESCRIPTIVE LITERATURE AND CHARACTERISTICS OF EQUIPMENT SHALL SHOW MAJOR DIMENSIONS, ROUGHING-IN DATA, CAPACITY, CURVES, PRESSURE DROP, CODE COMPLIANCE, MOTOR AND DRIVE DATA AND ELECTRICAL DATA. OBSERVE SPECIAL INSTRUCTIONS WHEN REQUIRED. SUBMITTALS SHALL BEAR THE STAMP OF THE GENERAL AND SUB-CONTRACTOR SHOWING THAT HE HAS REVIEWED AND CONFIRMED THAT THEY ARE IN CONFORMANCE WITH THE CONTRACT DRAWINGS AND SPECIFICATIONS OR INDICATE WHERE EXCEPTIONS TAKE PLACE. LACK OF SUCH CONTRACTOR'S REVIEW AND APPROVAL WILL BE CAUSE FOR REJECTION WITHOUT REVIEW BY TENANT'S CONSTRUCTION MANAGER. ALL SHOP DRAWINGS MUST APPEAR IN THE OPERATION AND MAINTENANCE MANUALS LEFT ON SITE AT JOB COMPLETION.

2. TENANT'S CONSTRICTION MANAGER'S REVIEW OF SHOP DRAWINGS OR SCHEDULES SHALL NOT RELIEVE THE CONTRACTOR FROM RESPONSIBILITY FOR ERRORS, OMISSIONS OR OTHER DEFICIENCIES OR DEVIATIONS IN THE SHOP DRAWING FROM THE CONTRACT DRAWINGS AND SPECIFICATIONS.

J. RECORD DRAWINGS

1. THE CONTRACTOR SHALL MAINTAIN ONE COPY OF DRAWINGS AND SPECIFICATIONS ON THE JOB SITE TO RECORD DEVIATIONS FROM CONTRACT DRAWINGS, SUCH AS:

A. LOCATION OF CONCEALED PIPING-VALVES AND DUCTS.
B. REVISIONS, ADDENDUMS, AND CHANGE ORDERS.
C. SIGNIFICANT DEVIATIONS MADE NECESSARY BY FIELD CONDITIONS, APPROVED EQUIPMENT SUBSTITUTIONS, AND CONTRACTOR'S COORDINATION WITH OTHER TRADES.
D. EXACT ROUTING OF ALL SANITARY AND DOMESTIC WATER PIPING UNDER FLOOR.

2. AT COMPLETION OF THE PROJECT AND BEFORE FINAL APPROVAL, THE CONTRACTOR SHALL MAKE ANY FINAL CORRECTIONS TO DRAWINGS AND CERTIFY THE ACCURACY OF EACH PRINT BY SIGNATURE THEREON. THE DRAWINGS ARE TO BE TURNED OVER TO THE TENANT.

K. GUARANTEE

1. THE CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORK UNDER HIS CONTRACT AND SHALL MAKE GOOD, REPAIR OR REPLACE AT HIS OWN EXPENSE, ANY DEFECTIVE WORK, MATERIAL, OR EQUIPMENT WHICH MAY BE DISCOVERED WITHIN A PERIOD OF 12 MONTHS FROM THE DATE OF ACCEPTANCE (IN WRITING) OF THE INSTALLATION BY THE TENANT'S CONSTRUCTION MANAGER. PROVIDE EXTENDED WARRANTIES AS SPECIFIED WITH INDIVIDUAL EQUIPMENT. IN CASE OF REPLACEMENT OR REPAIR OR EQUIPMENT DUE TO FAILURE WITHIN GUARANTEE PERIOD, GUARANTEE ON THAT PORTION OF WORK SHALL BE EXTENDED FOR A PERIOD OF ONE (1) YEAR FROM DATE OF SUCH REPLACEMENT OR REPAIR.

L. OPERATIONS MANUALS

1. ONE COPY OF EACH OPERATION AND MAINTENANCE MANUAL FOR ALL EQUIPMENT FURNISHED ON JOB SHALL BE COLLECTED AND INSERTED IN A 3" THREE-RING BINDER AND TURNED OVER TO THE TENANT. EACH NOTEBOOK SHALL INCLUDE BUT NOT BE LIMITED TO INSTALLATION, MAINTENANCE AND OPERATING INSTRUCTIONS, PAMPHLETS OR BROCHURES APPROVED SHOP DRAWINGS AND WARRANTIES OBTAINED FROM EACH MANUFACTURER OF PRINCIPAL ITEMS OF EQUIPMENT.

M. SLEEVES

1. THE CONTRACTOR SHALL PROVIDE SLEEVES TO PROTECT EQUIPMENT OR FACILITIES IN THE INSTALLATION. EACH SLEEVE SHALL EXTEND THROUGH IT'S RESPECTIVE FLOOR, WALL OR PARTITION AND SHALL BE CUT FLUSH WITH EACH SURFACE EXCEPT SLEEVES THAT PENETRATE THE FLOOR, WHICH SHALL EXTEND 2" ABOVE THE FLOOR.

2. ALL SLEEVES AND OPENINGS THROUGH FIRE RATED WALLS AND/OR FLOORS SHALL BE FIRE SEALED WITH CALCIUM SILICATE, SILICONE "RTV" FOAM, "3M" FIRE RATED SEALANTS OR EQUAL SO AS TO RETAIN THE FIRE RATING OF THE FLOOR OR WALL. CONFORM TO U.L. ASSEMBLY RATING OF FLOOR OR WALL.

3. SLEEVES IN BEARING AND MASONRY WALLS, FLOORS, AND PARTITIONS SHALL BE STANDARD WEIGHT STEEL PIPE FINISHED WITH SMOOTH EDGES. FOR OTHER THAN MASONRY PARTITIONS, THROUGH SUSPENDED CEILINGS, OR FOR CONCEALED VERTICAL PIPING, SLEEVES SHALL BE NO. 22 U.S.G. GALVANIZED STEEL MINIMUM.

4. DUCT SLEEVES TO BE MINIMUM 14 GAUGE STEEL.

N. HANGERS

1. HANGERS SHALL INCLUDE ALL MISCELLANEOUS STEEL SUCH AS ANGLE IRON, BANDS, C-CLAMPS WITH RETAINING CLIPS, CHANNELS, HANGER RODS, ETC., NECESSARY FOR THE INSTALLATION OF WORK.

2. HANGER SHALL BE FASTENED TO BUILDING STEEL, CONCRETE, OR MASONRY, BUT NOT TO PIPING OR DUCTWORK. HANGING FROM METAL DECK IS NOT PERMITTED. HANGERS MUST BE ATTACHED TO UPPER CHORD OF BAR JOIST. WHERE INTERFERENCE'S OCCUR, IN ORDER TO SUPPORT DUCTWORK OR PIPING, THE CONTRACTOR MUST INSTALL TRAPEZE TYPE HANGERS OR SUPPORTS WHICH SHALL BE LOCATED WHERE THEY DO NOT INTERFERE WITH ACCESS TO FIRE DAMPERS, VALVES, ACCESS DOORS AND OTHER EQUIPMENT SERVICE REQUIREMENTS AND/OR OTHER TRADES. HANGER TYPES AND INSTALLATION METHODS ARE SUBJECT TO LANDLORD CRITERIA.

3. HANGERS FOR ALL INSULATED PIPING SHALL BE SIZED AND INSTALLED FOR THE OUTER DIAMETER OF INSULATION. INSTALL 6" LONG SPLIT CIRCLE GALVANIZED SADDLE BETWEEN THE HANGER AND THE PIPE INSULATION.

4. HANGERS AND PIPING OF DISSIMILAR METALS SHALL BE DI-ELECTRICALLY SEPARATED FROM ONE ANOTHER.

O. ACCESS DOORS

1. FURNISH STEEL ACCESS DOORS AND FRAMES, MIN 16" X 20" OR AS SHOWN ON DRAWINGS, TO GENERAL CONTRACTOR FOR ALL LOCATIONS WHERE NECESSARY TO PROVIDE ACCESS TO CONCEALED VALVES, AND OTHER EQUIPMENT REQUIRING SERVICE OR INSPECTION. LOCATION, TYPE, SIZE AND NUMBER AS DETERMINED BY CONTRACTOR AND APPROVED BY TENANT CONSTRUCTION MANAGER TO SUIT EQUIPMENT REQUIREMENTS. GENERAL CONTRACTOR WILL INSTALL ACCESS DOORS AND FRAMES.

2. ACCESS DOORS LOCATED IN FIRE-RATED WALL, FLOOR, CEILING-FLOOR OR CEILING-ROOF ASSEMBLIES SHALL BE FIRE-RATED, UNDERWRITER'S LABORATORIES, INC., LISTED AND LABELED.

3. ACCESS DOORS SHALL BE FLUSH TYPE, MANUFACTURED FROM NO. 14 GAUGE STEEL, COMPLETE WITH FLUSH FLANGE TYPE FRAMES MANUFACTURED FROM NO. 16 GAUGE STEEL, PROVIDED WITH ANCHORS. ACCESS DOORS SHALL BE SUITABLE FOR INSTALLATION IN WALL OR CEILING MATERIALS SHOWN IN ROOM FINISH SCHEDULES.

P. ELECTRICAL MOTORS

1. FURNISH, INSTALL AND ALIGN ALL MOTORS REQUIRED FOR THE EQUIPMENT. UNLESS THEY ARE FACTORY INSTALLED ON THE UNIT, ALL STARTERS AND ASSOCIATED WIRING AND SAFETY SWITCHES FOR SUCH MOTORS SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR. STARTERS SHALL MEET ALL REQUIREMENTS AS DEFINED IN THE ELECTRICAL DIVISION OF THE SPECIFICATIONS.

2. DESIGN, CONSTRUCTION AND PERFORMANCE CHARACTERISTICS OF MOTORS SHALL CONFORM TO ALL APPLICABLE PROVISIONS OF LATEST NEMA, ANSI, IEEE STANDARDS FOR ELECTRICAL EQUIPMENT. ALL MOTORS SHALL BE SUITABLE FOR OPERATION ON VOLTAGE, VARIATION OF PLUS OR MINUS 10%, 40 DEGREES C AMBIENT TEMPERATURE; HAVE A SERVICE FACTOR OF NOT LESS THAN 1.15.

Q. LOW VOLTAGE (24 VOLT) WIRING

1. THE CONTRACTOR IS TO INSTALL ALL LOW VOLTAGE WIRING REQUIRED FOR HIS EQUIPMENT. THIS WORK INCLUDES ALL TRANSFORMERS AND DEVICES TO MAKE THIS A COMPLETE FUNCTIONAL SYSTEM.

2. ALL WORK IS TO CONFORM TO THE LATEST ADDITION N.E.C. AND TO DIVISION 16 ELECTRICAL SPECIFICATIONS.

3. ANY CONDUIT REQUIRED BY CODE OR THE LANDLORD WILL BE INSTALLED BY THE ELECTRICAL SUBCONTRACTOR.

DIVISON 15 - MECHANICAL

SECTION 15500
HEATING, VENTILATION, AND AIR CONDITIONING

A. SCOPE OF WORK

1. THE HVAC CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, EQUIPMENT, SERVICES, TOOLS, TRANSPORTATION AND FACILITIES NECESSARY FOR REASONABLY IMPLIED AND INCIDENTAL TO, THE FURNISHING, INSTALLATION, COMPLETIONS AND TESTING OF ALL THE WORK FOR THE MECHANICAL SYSTEMS AS SHOWN ON THE DRAWINGS, CALLED FOR IN THE SPECIFICATIONS, AND AS REQUIRED BY JOB CONDITIONS, TO INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING: (REFER TO RESPONSIBILITY SCHEDULE FOR EXACT RESPONSIBILITIES)

A. HVAC UNITS, EQUIPMENT, AND APPURTENANCES.
B. DUCTWORK, FITTINGS, DAMPERS, AND INSULATION.
C. HYDRONIC PIPING AND INSULATION (AS APPLICABLE, REFER TO PLANS).
D. REFRIGERANT PIPING (AS APPLICABLE, REFER TO PLANS).
E. DIFFUSERS, GRILLS, AND REGISTERS.
F. CURBS AND STEEL FRAMING FOR SUPPORT (AS APPLICABLE, REFER TO PALNS).
G. TESTING, ADJUSTING, AND BALANCING.
H. OPERATIONS MANUALS.
I. TEMPERATURE CONTROLS AND RELATED DIAGRAMS.
J. SEQUENCE OF OPERATION.
K. CONNECTION TO ANY LANDLORD ENERGY MANAGMENT SYSTEM.

3. BEFORE STARTING WORK, THIS CONTRACTOR SHALL EXAMINE THE ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL PLANS AND SPECIFICATIONS TO SEQUENCE, COORDINATE, AND ITEGRATE THE VARIOUS ELEMENTS OF THE HVAC SYSTEM, MATERIALS, AND EQUIPMENT WITH OTHER CONTRACTORS TO AVOID INTERFERENCES AND CONFRONTATIONS.

B. HVAC EQUIPMENT

1. PRIMARY HEATING, VENTILATION AND AIR CONDITIONING UNITS.

A. PRIMARY HEATING, VENTILATION AND AIR CONDITIONING UNITS ARE TO BE AS SCHEDULED. ALL COMPRESSORS ARE TO INCLUDE A 5-YEAR EXTENDED WARRANTY.
B. EQUAL EQUIPMENT FROM OTHER MANUFACTURES ARE ACCEPTABLE. ALL EQUIPMENT SHALL BE COMPLETE IN EVERY RESPECT WITH ALL DEVICES, APPURTENANCES, AND
C. ACCESSORIES PROVIDED TO MEET THE DESIGN INTENT AND OPERATION OF THE SYSTEMS SHOWN ON THE DRAWINGS AND SPECIFIED HERIN. EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. ALL AIR
D. CONDITIONING EQUIPMENT MUST HAVE A CONDENSATE DRAIN AND BE TRAPPED IN ACCORDANCE WITH MANUFACTURERS DATA. SEE DRAWINGS FOR ADDITIONAL DETAILS. SECONDARY DRAIN PANS ARE REQUIRED TO BE INSTALLED BENEATH ALL INDOOR AIR CONDITIONING
E. EQUIPMENT WITH THE EXCEPTION OF VAV BOXES. SECOCONDARY PANS ARE TO PROTECT ENTIRE UNIT, PROVIDE CONDENSATE PUMPS, AS REQUIRED. CONDENSATE SHALL BE DIRECTED TO MOP SINK OR AS SPECIFIED ON PLANS.

4. BASEBOARDS, CABINET, AND UNIT HEATERS

A. WHERE SHOWN ON DRAWINGS, PROVIDE ELECTRIC HEATERS COMPLETE WITH ELECTRIC HEATING COIL, CONTROLS, AND INTEGRAL THERMOSTAT.

6. VIBRATION ISOLATION DEVICES

A. VIBRATION ISOLATION DEVICES SHALL BE PROVIDED IN ALL SUPPORTS BETWEEN VIBRATING EQUIPMENT (FANS, ROOFTOP UNITS, AIR HANDLERS, FAN POWERED VAV BOXES, ETC.) AND STRUCTURE.
B. VIBRATING EQUIPMENT HUNG FROM STRUCTURE SHALL BE ISOLATED WITH RUBBER AND SPRING DEVICES. VIBRATING EQUIPMENT SUPPORTED FROM FLOOR OR DECK SHALL BE ISOLATED WITH HOUSED SPRING MOUNT DEVICES.
C. EXAMINE DEAD LOAD AND OPERATING LOAD CONDITIONS WHEN SELECTING DEVICES. ADJUST FOR PROPER ALIGNMENT AND LOADING. AVOID "GROUNDING" THE ISOLATOR.
D. CHECK HANGER ROD SIZE FOR ALLOWABLE LOADS AT THE ISOLATING DEVICE AND AT THE UPPER AND LOWER ATTACHMENTS TO STRUCTURES, DUCTS, EQUIPMENT, ETC.
E. CONSULT MANUFACTURER FOR APPLICATION DATA.

7. CURBS AND STEEL FRAMING FOR SUPPORT

A. THIS CONTRACTOR WILL PROVIDE ALL NECESSARY CURBS AND STEEL FRAMING REQUIRED TO INSTALL ALL HVAC EQUIPMENT AS DESCRIBED OR IMPLIED ON THE DRAWINGS. CURBS SHALL BE A MINIMUM OF 14" HIGH, OF THE SAME MANUFACTURER OF THE EQUIPMENT SUPPORTED. INSULATE UNDER THE COMPRESSOR SECTION TO PREVENT CONDENSATION. ALL CURBS MUST BE INSTALLED SO THAT TOP OF CURBS ARE "DEAD" LEVEL. ALL PENETRATIONS OF EXISTING STRUCTURE SHALL BE DONE IN ACCORDANCE TO THE LANDLORD'S GUIDLINES AT THIS CONTRACTOR'S EXPENSE.

C. METAL DUCTWORK - NO FIBERGLASS DUCT ALLOWED

1. NO DUCTWORK SHALL BE FABRICATED PRIOR TO APPROVAL BY THE TENANT'S CONSTRUCTION MANAGER. SIGNIFICANT DEVIATIONS FROM DESIGN MUST BE APPROVED BY TENANT'S CONTRUCTION MANAGER PRIOR TO FABRICATION OR INSTALLATION. ALL DUCT MAINS ARE TO BE RECTANGULAR UNLESS NOTES OTHERWISE. ALL DUCT BRANCHES TO DIFFUSERS ARE TO BE ROUND RIGID DUCT. (FLEXIBLE DUCT CONNECTIONS TO THE DIFFUSER ARE NOT TO EXCEED 5' - 0").

2. EXCEPT AS OTHERWISE INDICATED, FABRICATE AND INSTALL RECTANGULAR DUCTS WITH GALVANIZED SHEET STEEL, IN ACCORDANCE WITH SMACNA "HVAC DUCT CONSTRUCTION STANDARDS" OF THIS LATEST EDITION. CONFORM TO THE REQUIREMENTS IN THE REFERENCED STANDARD FOR METAL THICKNESS, REINFORCING TYPES AND INTERVALS, THE ROD APPLICATIONS, AND JOINT TYPES AND INTERVALS.

3. EXCEPT WHERE OTHERWISE INDICATED, CONSTRUCT DUCT SYSTEMS TO THE FOLLOWING PRESSURE CLASSIFICATIONS: (VERIFY WHETHER RETURN OR EXHAUST DUCT IS POSITIVE OR NEGATIVE PRESSURE)

A. SUPPLY DUCTS: 2 INCHES WATER GAUGE, POSITIVE PRESSURE.
B. RETURN AND EXHAUST DUCTS: 2 INCHES WATER GAUGE, NEGATIVE PRESSURE.

PRESSURE TEST DUCTS FOR LEAKAGE. REMAKE LEAKING JOINTS AND APPLY SEALANTS AS REQUIRED TO FABRICATE A SYSTEM THAT DOES NOT EXCEED 5% LEAKAGE OR LESS AS STATED BY PRESSURE CLASS RATINGS IN SMACNA STANDARDS.

4. AS A MINIMUM, CROSSBREAK ALL FLAT SURFACES OR REINFORCE WITH A BEAD APPROXIMATELY $\frac{3}{8}$" WIDE x $\frac{3}{16}$" DEEP ON 12" CENTERS TO PREVENT VIBRATIONS.

5. INSTALL DOUBLE THICKNESS TURNING VANES IN ALL RIGHT ANGLE ELBOWS.

6. INSTALL RIGID ROUND AND RECTANGULAR METAL DUCT WITH SUPPORT SYSTEMS INDICATED IN SMACNA STANDARDS. SUPPORT HORIZONTAL DUCTS WITH 2 FEET OF EACH ELBOW AND WITHIN 4 FEET OF EACH BRANCH INTERSECTION USING DOUBLE STRAP HANGERS ON EACH SIDE OF FITTING. SUPPORT VERTICAL DUCTS AT A MAXIMUM INTERVAL OF 16 FEET AND AT EACH FLOOR. NO WOOD SHALL BE USED TO SUPPORT OF BRACE DUCTS. PROVIDE SWAY AND SEISMIC BRACING AS REQUIRED BY STATE AND LOCAL CODES OR BY LANDLORD.

7. WHERE DUCTS PASS THROUGH ROOFS AND FLOORS, PROVIDE AS MINIMUM 1-$\frac{1}{2}$"x1-$\frac{1}{2}$"x$\frac{1}{8}$" STEEL ANGLE FRAMES AT EACH SIDE OF OPENING. THE ANNULAR SPACE BETWEEN DUCT AND ANGLE FRAMES SHALL BE CAULKED WITH SILICONE SEALANT OR FIREPROOFED AS REQUIRED BY ASSEMBLY FIRE RATING.

8. ALL TRAVERSE JOINTS AND SEAMS IN SUPPLY AIR DUCT SHALL BE SEALED AIR TIGHT WITH DAP CMC DUCT SEALER. JOINTS ALSO SHALL BE RIVETED OR CONNECTED WITH SHEET METAL SCREWS.

9. SOFT ELASTOMER BUTYL GASKET WITH ADHESIVE BACKING SHALL BE USED TO SEAL FLANGED JOINTS.

10. DUCT TRANSITIONS SHALL NOT EXCEED 30 DEGREES SLOPE EXCEPT AS SPECIFICALLY NOTED OTHERWISE.

11. PROVIDE ACCESS TO ALL MOTORIZED DAMPERS, FIRE DAMPERS, CONTROLS, AND OTHER ITEMS IN DUCTWORK THAT REQUIRE SERVICE OR INSPECTION. IF THE ACCESS PANEL LOCATION IS EXPOSED TO THE SALES AREA, IT MUST BE APPROVED BY THE TENANT'S CONSTRUCTION MANAGER PRIOR TO INSTALLATION. LAY-IN SUPPLY AND RETURN AIR DIFFUSERS, GRILLES AND REGISTERS WITH PLASTER FRAMES MAY BE USED AS ACCESS LOCATIONS.

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BUILDING NAME: JLTC

RM# N/A
JLTC WAREHOUS
SCIF
O. D. D.
OGDEN, UTAH

PROJECT TITLE: SCIF

OGDEN, UTAH
JLTC FACILITY
AT
OGDEN DEFENSE
DEPOT

MARK	DATE	DESCRIPTION

ISSUE TYPE: BID SET

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SHEET TITLE
MECHANICAL SPECIFICATIONS

SHEET NUMBER
MS 01

12. FLEXIBLE CONNECTIONS

A. FLEXIBLE COLLARS SHALL BE PROVIDED IN ALL CONNECTIONS BETWEEN VIBRATING EQUIPMENT (FANS, ROOFTOP UNITS, AIR HANDLERS, FAN POWERED VAV BOXES, ETC.) AND DUCTS OR CASINGS. ALSO PROVIDE
B. FLEXIBLE CONNECTIONS WHERE DUCTS CROSS BUILDING EXPANSION JOINTS.
FLEXIBLE CONNECTIONS SHALL CONSTRUCTED OF NEOPRENE-COATED FLAMPROOF FABRIC. PROVIDE ADEQUATE JOINT FLEXIBILITY TO ALLOW FOR MOVEMENT AND PREVENT THE TRANSMISSION OF VIBRATION.
C. FLEXIBLE CONNECTION IS TO BE-RATED FOR THE OPERATING-PRESSURE OF THE SYSTEM.

13. FLEXIBLE AIR DUCT

A. FLEXIBLE AIR DUCT SHALL BE 1" INSULATED CLASS 1 AND RATED FOR THE OPERATING-PRESSURE OF THE SYSTEM. DUCT CONSTRUCTION MATERIAL (PLASTIC, CLOTH, ALUMINUM) MUST ADHERE TO LOCAL CODES AND LANDLORD'S REQUIREMENTS AND BE INCLUDED AS SUCH IN THE BID.
B. FLEXIBLE AIR DUCT MAY ONLY BE USED IN VERTICAL APPLICATIONS WITH PRIOR APPROVAL FROM TENANT'S CONSTRUCTION MANAGER.
C. FLEXIBLE DUCT SHALL NOT EXTEND OVER 5'-0" IN LENGTH AT ANY ONE LOCATION.

14. SUPPLY AIR TAKE-OFF FITTINGS

A. PROVIDE CONICAL OR "BELL-MOUTH" TAKE-OFFS FROM MAIN DUCTWORK TO ROUND BRANCHES. INSTALL PER MANUFACTURER'S INSTRUCTIONS.
B. PROVIDE 45° RETANGULAR TAKE-OFFS FROM MAIN DUCTWORK TO RECTANGULAR BRANCHES.

15. DAMPERS

A. PROVIDE MANUAL LOCKING QUADRANT VOLUME CONTROL DAMPERS WITH HANDLE OPERATORS IN EACH BRANCH DUCT AND AS SHOWN ON PLANS TO FACILITATE AIR BALANCING.
B. WHERE ACCESS TO BALANCING DAMPER IS RESTRICTED, YOUNG'S REGULATORS SHALL BE USED.
C. ALL RECTANGULAR DAMPERS IN OUTSIDE AIR-RELIEF AIR, OR-RETURN AIR DUCTS ARE TO BE OF OPPOSED BLADE TYPE. ALL OUTSIDE AIR DUCT DAMPERS MUST ALSO BE OF THE LOW LEAKAGE TYPE.
D. ALL MOTORIZED DAMPERS NOT FURNISHED WITH EQUIPMENT ARE TO BE HONEYWELL DAMPERS.

16. DIFFUSERS, GRILLES, AND REGISTERS

A. PROVIDE DIFFUSERS, GRILLES AND REGISTERS AS SCHEDULED. DEVICES TO BE COMPLETE WITH DAMPERS FRAMES AND ALL ACCESSORIES. FINISH AS INDICATED.
B. INSTALL ALL AIR DEVICES AS LOCATED ON TEN ARCHITECTURAL REFLECTED CEILING PLAN.
C. APPROVED MANUFACTURERS: TITUS IS SPECIFIED, EQUALS BY METALAIRE OR KRUEGER IS ACCEPTABLE.

17. MEDIUM PRESSURE DUCT

A. WHERE DUCTWORK IS SPECIFICALLY NOTED AS MEDIUM PRESSURE, IT SHALL BE CONSTRUCTED IN ACCORDANCE WITH SMACNA STANDARDS FOR A PRESSURE RATING OF 3 INCHES WATER COLUMN MINIMUM OR LARGER AS REQUIRED BY LANDLORD.
B. ALL GAUGES AND REINFORCEMENT MUST MEET WITH THE LATEST EDITION OF SMACNA STANDARDS FOR MEDIUM PRESSURE DUCT AND WITH THE LANDLORD'S CRITERIA.
C. ALL OTHER ITEMS FROM METAL DUCTWORK SPECIFICATION SECTION APPLY TO THIS SECTION.

18. DUCTWORK INSULATION

A. INSTALL INSULATION PRODUCTS IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS, AND IN ACCORDANCE WITH RECOGNIZED INDUSTRY PRACTICES. INSULATION MUST COMPLY WITH NFPA 90A.
B. DUCT SIZES SHOWN ON DRAWINGS ARE INSIDE CLEAR DIMENSIONS. INSULATE SUPPLY AND RETURN AIR RECTANGULAR DUCTWORK WHERE SHOWN ON PLAN. DUCTWORK SHALL BE INTERNALLY INSULATED WITH 1" THICK, 1-½ LB. DENSITY LINER (C+0.28 @ 75°F). LINER IS TO HAVE A COATED SURFACE EXPOSED TO AIRSTREAM TO PREVENT EROSION. APPLY ADHESIVES AND MECHANICAL FASTENERS AS RECOMMENED BY SMACNA AND THE MANUFACTURER TO PREVENT LINER SEPARATION FROM THE DUCT. ALL TRANSVERSE EDGES TO BE COATED WITH ADHESIVE.
C. ALL ROUND AND OUTSIDE AIR DUCTWORK ABOVE THE CEILING SHALL BE EXTERNALLY INSULATED WITH A MINIMUM OF 1" THICK, 1-½ LB. DENSITY (R-3.0) DUCT WRAP WITH VAPOR BARRIER. VAPOR BARRIER IS TO BE MAINTAINED THROUGHOUT DUCT SYSTEM. ALL JOINTS MUST BE TAPED SO THAT NO INSULATION FIBER IS VISIBLE. EXTEND DUCTWORK INSULATION WITHOUT INTERRUPTION THROUGH WALLS, FLOORS, AND SIMILAR PENETRATIONS.
D. ALL INSULATION SHALL HAVE A FLAME SPREAD RATING OF NOT MORE THAN 25 AND A SMOKE DEVELOPED RATING OF NO HIGHER THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM C411, OR AS REQUIRED BY LOCAL CODES.

19. SYSTEM CLEANOUT

A. DUCTWORK AND AIR HANDLING EQUIPMENT IS TO BE CLEANED OUT AND BLOWN OUT BEFORE PAINTING IS STARTED BY THE GENERAL CONTRACTOR.
FILTERS MUST BE IN UNITS AT ANY TIME FANS ARE OPERATED.

E. 1. REFRIGERANT PIPING

1. PROVIDE A COMPLETE REFRIGERANT PIPING SYSTEM BETWEEN INDOOR FAN UNITS AND OUTDOOR CONDENSING UNITS. IF APPLICABLE. PROVIDE OIL, REFRIGERANT CHARGE AND TEST SYSTEM. REFER TO PLANS TO DETERMINE IF A REFRIGERANT PIPING SYSTEM IS REQUIRED.

2. MATERIALS

A. REFRIGERANT PIPING SHALL BE TYPE "L" DRAWN COPPER TUBING (ASTM B88), WROUGHT COPPER OR CAST BRONZE FITTINGS (ANSI B16.22) WITH SILFOS-5 SOLDERED JOINTS.
B. SERVICE VALVES, CHARGING PORTS, FILTER-DRIER, SIGHT GLASS, AND A THERMOSTATIC EXPANSION VALVE (TXV) SHALL BE INSTALLED FOR EACH SYSTEM AS A MINIMUM.

3. INSTALLATION

A. SIZE LINES WITH ADEQUATE LIFT TRAPS AND DOUBLE SUCTION RISERS AS NECESSARY TO MEET THE NEEDS OF EQUIPMENT SPECIFIED, FIELD CONDITIONS, AND EQUIPMENT MANUFACTURER'S RECOMMENDATIONS.
B. PRESSURE TEST FOR LEAKS WITH AN INERT GAS AT 250 PSIG. REDO LEAKING JOINTS AND RETEST UNTIL SYSTEM IS TIGHT. EVACUATE GAS AND CHARGE SYSTEM. RE-TEST SYSTEM AND CHECK FOR LEAKS WITH HALIDE LEAK DETECTOR. ALL LEAKING JOINTS MUST BE COMPLETELY RE-DONE UNTIL NO LEAKS EXIST.
C. UPON COMPLETION OF TESTING, BUT BEFORE INSULATION IS APPLIED, PIPING MUST BE INSPECTED BY A REPRESENTATIVE OF THE LOCAL GOVERNING AUTHORITY AS NECESSARY.
D. REFRIGERANT LINES SHALL BE INSULATED WITH 1 INCH THICK RUBATEX OR ARMSTRONG REFRIGERANT PIPE INSULATION IN ACCORDANCE WITH INDUSTRY STANDARDS.

F. 2. SYSTEM TESTING, ADJUSTING, AND BALANCING

1. TESTING, ADJUSTING AND BALANCING OF ALL WORK SHALL BE MADE BY AN INDEPENDENT CONTRACTOR WHO IS CURRENTLY LICENSED ASSOCIATED AIR BALANCING COUNCIL (AABC) OR NATIONAL ENVIRONMENTAL BALANCING BUREAU (NEBB) BALANCING CONTRACTOR. NO OTHER BALANCE REPORTS WILL BE REVIEWED OR ACCEPTED. ALL BALANCING WORK MUST BE COMPLETE AND DONE IN ACCORDANCE WITH THE MOST RECENT STANDARDS OF THEIR SOCIETY. PAYMENT OF ALL COSTS FOR TESTING SHALL BE MADE BY THE HVAC CONTRACTOR.

2. THE HVAC CONTRACTOR SHALL INSTALL NEW FILTERS IN ALL UNITS PRIOR TO THE AIR BALANCE. THE COMPLETE AIR BALANCE SHALL TAKE PLACE WITH OUTSIDE AIR DAMPERS IN MINIMUM POSITION.

3. BALANCE AIR AND WATER QUANTITIES TO WITHIN +5% OF THAT INDICATED ON THE DRAWINGS. ANY REQUIRED CHANGES IN SHEAVES, BELTS, PULLEYS, OR THE ADDITION OF DAMPERS REQUIRED TO ACHIEVE SPECIFIED FLOW RATES SHALL BE PERFORMED BY THE HVAC CONTRACTOR WITH NO ADDITIONAL COST TO THE TENANT.

4. THE BALANCE REPORT SHALL INCLUDE AS A MINIMUM THE FOLLOWING INFORMATION:
A. AABC OR NEBB CERTIFICATION NUMBER AND SIGNATURE OF BALANCING CONTRACTOR.
B. INSTRUMENTATION LIST WITH LAST CALIBRATION DATES.
C. MAKE AND MODEL NUMBERS OF ALL HVAC EQUIPMENT TESTED.
D. AIR CFM AND STATIC PRESSURE READINGS (DISCHARGED AND SUCTION) AS MEASURED BY PITOT TUBE DUCT TRAVERSE AT THE UNIT.
E. MOTOR NAMEPLATE DATA WITH ACTUAL FIELD VOLTAGE AND AMPERAGE READINGS FOR EACH LEG.
F. MOTOR AND FAN RPMS, SHEAVE SIZES AND BELT SIZES.
G. OUTSIDE RETURN, MIXED AND SUPPLY AIR TEMPERATURES AT FULL COOLING.
H. WATER BALANCE DATA INCLUDING GPM WITH INLET AND OUTLET TEMPERATURE AND PRESSURE READINGS (WHERE APPLICABLE).
I. MAKE AND MODEL NUMBERS OF ALL AIR DISTRIBUTION EQUIPMENT.
J. FINAL BALANCED AIR VOLUMES AT ALL OUTLETS (INCLUDING RETURNS WHERE DUCTED).
K. INDEXED PLAN WITH DIFFUSER AND RETURN LOCATIONS.

5. ALL CONTROL SEQUENCES SHALL BE TESTED (INTERLOCKED EQUIPMENT, SMOKE DETECTORS, SMOKE EVACUATION, ECONOMIZER, ETC.) AND OPERATING STATUS RECORDED IN THE REPORT.

6. THREE COPIES OF THE BALANCE REPORT SHALL BE SUBMITTED THROUGH THE GENERAL CONTRACTOR TO THE TENANT'S CONSTRUCTION MANAGER FOR APPROVAL.

7. THE BALANCING CONTRACTOR SHALL PERFORM ALL APPLICABLE TESTING AND BALANCING FUNCTIONS REQUIRED FOR THE SYSTEM DESIGNED IN THESE DRAWINGS. THE BALANCING CONTRACTOR SHALL RECHECK ANY ITEMS THAT THE TENANT DEEMS NECESSARY AT NO ADDITIONAL COST TO THE TENANT.

8. FINAL BALANCE REPORT SHALL BE INCLUDED IN THE OPERATION AND MAINTENANCE MANUALS.

G. FINAL HVAC INSPECTIONS

1. ASIDE FROM NORMAL INTERIM INSPECTIONS OF WORK IN-PLACE, THE TENANT SHALL HAVE THE RIGHT TO AN INDEPENDENT HVAC CONTRACTOR INSPECT THE FINISHED HVAC INSTALLATION UPON COMPLETION FOR COMPLIANCE WITH THE PLANS, SPECIFICATIONS, AND CODES. THE INSTALLING CONTRACTOR WILL BE RESPONSIBLE TO BRING ALL ITEMS REPORTED BY THE INDEPENDENT HVAC CONTRACTOR UP TO PLANS AND SPECIFICATION REQUIREMENTS AT NO COST TO TENANT.

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BUILDING NAME: JLTC

RM# N/A
JLTC WAREHOUS
SCIF
O. D. D.
OGDEN, UTAH

PROJECT TITLE: SCIF

OGDEN, UTAH
JLTC FACILITY
AT
OGDEN DEFENSE
DEPOT

MARK	DATE	DESCRIPTION

ISSUE TYPE: BID SET

ISSUE DATE: SEPT. 8, 2004

DFCM PROJECT NO: 03220480
CAD PROJECT NO: 02-XXX
CAD DWG FILE: 0358
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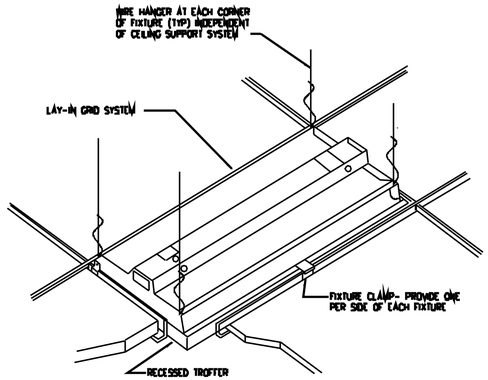
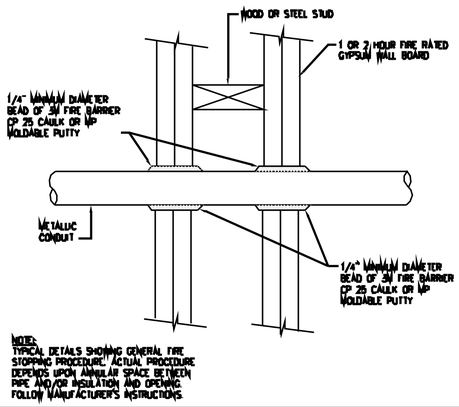
SHEET TITLE
MECHANICAL SPECIFICATIONS

SHEET NUMBER
MS 02

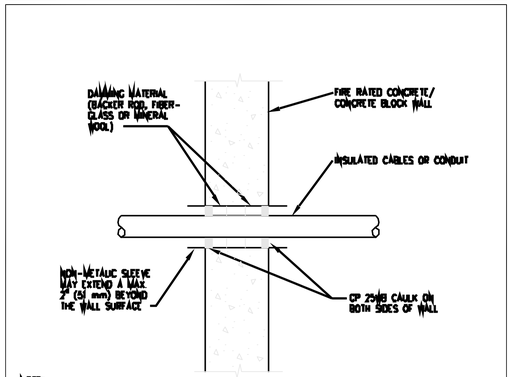


SCALE: N.T.S. — TYPICAL RECESSED FIXTURE MOUNTING DETAIL



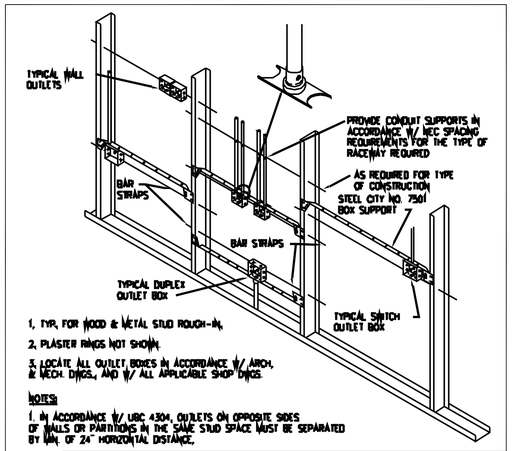
NOTE:
TYPICAL DETAILS SHOWING GENERAL FIRE STOPPING PROCEDURE. ACTUAL PROCEDURE DEPENDS UPON ANNULAR SPACE BETWEEN PIPE AND/OR INSULATION AND OPENING. FOLLOW MANUFACTURER'S INSTRUCTIONS.

SCALE: N.T.S. — FIRESTOP FOR METAL CONDUIT THROUGH GYPSUM WALL BOARD



NOTE:
TYPICAL DETAILS SHOWING GENERAL FIRE STOPPING PROCEDURE. ACTUAL PROCEDURE DEPENDS UPON ANNULAR SPACE BETWEEN PIPE AND/OR INSULATION AND OPENING. FOLLOW MANUFACTURER'S INSTRUCTIONS.

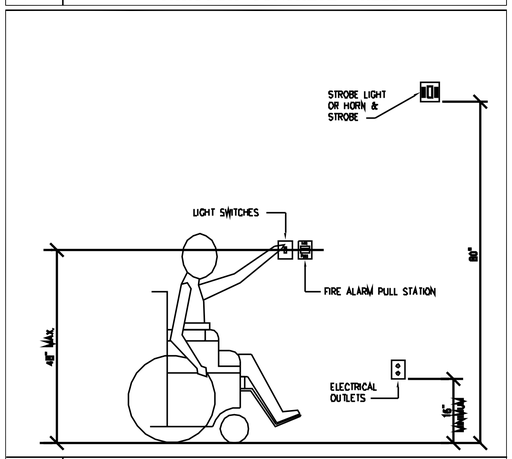
SCALE: N.T.S. — TYPICAL FIRESTOP FOR CABLES/CONDUIT THROUGH CONCRETE WALLS



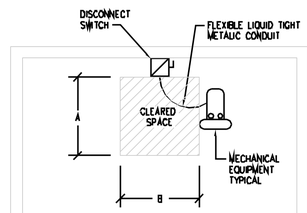
1. TYP. FOR WOOD & METAL STUD ROUGH-IN.
2. PLASTER RINGS NOT SHOWN.
3. LOCATE ALL OUTLET BOXES IN ACCORDANCE W/ ARCH. & MECH. DWGS., AND W/ ALL APPLICABLE SHOP DWGS.

NOTES:
1. IN ACCORDANCE W/ UBC 4304, OUTLETS ON OPPOSITE SIDES OF WALLS OR PARTITIONS IN THE SAME STUD SPACE MUST BE SEPARATED BY MIN. OF 24" HORIZONTAL DISTANCE.

SCALE: N.T.S. — TYPICAL ROUGH-IN REQUIREMENTS DETAIL



SCALE: N.T.S. — STANDARD HEIGHTS FOR HANDICAPPED ACCESS



NOTE:
1. THE CONTRACTOR MUST COORDINATE EXACT LOCATION OF THE DISCONNECT WITH THE MECHANICAL CONTRACTOR TO ELIMINATE ANY OBSTACLE (PIPE, CONCRETE PAD, ETC.) IN FRONT OF THE DISCONNECT. IF THERE ARE ANY OBSTACLES, PROVIDE UNISTRUT AND INSTALL THE DISCONNECT NEXT TO MECHANICAL EQUIPMENT IN ORDER TO PROVIDE THE REQUIRED CLEARANCE.

2. PROVIDE MINIMUM CLEARANCE AS FOLLOWS:

SYSTEM VOLTAGE	A	B
480	42"	30"
208	36"	30"

SCALE: N.T.S. — TYPICAL DISCONNECT CLEARANCE REQUIREMENTS

ELECTRICAL SYMBOL LIST

SYMBOL	DESCRIPTION
	LIGHTING SYMBOLS
	RECESSED FLUORESCENT FIXTURE
X	REFERENCE NOTE CALLOUT
$3	3-WAY TOGGLE SWITCH - 20 AMP - LETTER INDICATES SWITCH ASSIGNMENT
$	TOGGLE SWITCH - 20 AMP
	POWER SYMBOLS
	DUPLEX CONVENIENCE OUTLET - 20 AMP
	FLUSH VOICE/DATA OUTLET
$t	THERMAL OVERLOAD SWITCH - SIZE AS REQUIRED
J	JUNCTION BOX - SIZE AND FUNCTION AS REQUIRED
	CONDUITS CONCEALED IN FLOOR OR BELOW GRADE
	CONDUITS CONCEALED IN CEILING AND WALLS
	ARROWS INDICATE HOME RUNS - LINES INDICATE NUMBER CONDUCTORS
	FUSED DISCONNECT SWITCH - SIZE AS REQUIRED
FACP	FIRE ALARM CONTROL PANEL
	SPECIAL SYSTEMS SYMBOLS
H	FIRE ALARM SYSTEM COMBINATION HORN-STROBE - 75 CANDELA, 90 dB MIN.

MECHANICAL EQUIPMENT SCHEDULE

NAME OF MECHANICAL EQUIPMENT	AIR HANDLING UNIT	AIR HANDLING UNIT	CONDENSING UNIT	CONDENSING UNIT					
EQUIPMENT NO.	AH-1	AH-2	CU-1	CU-2	--	--	--	--	--
RATING/WATTS	1/2 HP 10 KW	1/2 HP 10 KW	--	--	--	--	--	--	--
VOLTAGE	208	208	208	208	--	--	--	--	--
PHASE	1	1	1	1	--	--	--	--	--
AMPS	53	53	75.8 MCA	75.8 MCA	--	--	--	--	--
WIRE SIZE	2 #4	2 #4	2 #8	2 #8	--	--	--	--	--
GROUND WIRE	1 #8	1 #8	1 #10	1 #10	--	--	--	--	--
CONDUIT SIZE	3/4"	3/4"	3/4"	3/4"	--	--	--	--	--
FUSE DISC. SW.	100	100	30	30	--	--	--	--	--
TYPE RK1 FUSES	70	70	30	30	--	--	--	--	--
NON-FUSE SW.	--	--	--	--	--	--	--	--	--
CAPACITOR(KVAR)	--	--	--	--	--	--	--	--	--
NOTES	1	1	1	1	--	--	--	--	--

MOTOR DATA

NOTES:
1. STARTER IS FURNISHED WITH THE UNIT, PROVIDE SITE DISCONNECT.
2. PROVIDE THERMAL OVERLOAD SWITCH.
3. PROVIDE COMBINATION STARTER & DISCONNECT (HOA) W/ (2) N.O. & N.C. CONTACTS.
4. UNIT FURNISHED WITH VFD, PROVIDE SITE FUSED DISCONNECT WITH ELECTRICAL INTERLOCK (FACTORY INSTALLED).

GENERAL NOTES:

1. IN AREAS WHERE CIRCUIT CONTINUITY IS INTERRUPTED, BUT MUST BE MAINTAINED BECAUSE OF THE NATURE OF THE FACILITY, MAKE ALL THE NECESSARY MODIFICATIONS TO THE CIRCUITS IN ORDER TO MAINTAIN THE CIRCUIT INTEGRITY IN THE SAME WORKING DAY AND MAY NEED TO BE COMPLETED DURING OFF HOURS.

2. MINIMUM SIZE OF CONDUIT TO BE 3/4".

3. USE RIGID STEEL SET SCREW TYPE FITTINGS ONLY. DIE CAST FITTINGS SHALL NOT BE USED.

4. ALL NEW WORK MUST MEET THE MOST CURRENT ADOPTED NATIONAL ELECTRICAL CODE.

5. NOT MORE THAN THREE (3) CIRCUITS, SHALL BE INSTALLED IN A CONDUIT.

6. THE SIZE OF THE NEUTRAL CONDUCTORS SHALL BE NO. 10 AWG FOR ALL HOME RUNS WITH COMMON NEUTRALS (LIGHTING AND POWER CIRCUITS).

7. THE MINIMUM SIZE OF CONDUCTORS ARE TO BE #12 AWG THHN COPPER, UNLESS INDICATED OTHERWISE ON THE DRAWINGS.

8. ALL FIRE ALARM DEVICES SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR AND SHALL BE TIED TO THE FIRE ALARM CONTROL PANEL. ALL FIRE ALARM WIRING SHALL BE IN CONDUIT. PROVIDE CONDUITS, CONDUCTORS, J-BOXES, ETC., FOR A COMPLETE INSTALLATION. THE EXACT LOCATIONS OF ANY FIRE ALARM DEVICE MUST BE COORDINATED WITH THE ARCHITECT PRIOR TO ANY RACEWAY SYSTEM INSTALLATION OR ROUGH-IN.

9. ALL J-BOXES SHALL HAVE MINIMUM DEPTH OF 2-1/8" UNLESS OTHERWISE SPECIFIED. SECURE ALL J-BOXES AS SHOWN IN THE DETAILS. FURNISH AND INSTALL PROPER MUD RINGS. ALL J-BOXES MUST BE ACCESSIBLE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ACCESS DOORS FOR J-BOXES LOCATED ABOVE THE HARD CEILING OR BEHIND HARD WALLS. LOCATION OF THE DOOR MUST BE COORDINATED WITH THE ARCHITECT.

10. ALL NEW EXPOSED CONDUIT MUST RUN AGAINST THE WALLS OR CEILINGS. DO NOT PENDANT MOUNT ANY CONDUIT FROM THE CEILING.

11. ALL THE HOME RUNS MUST BE ACCESSIBLE ON THE CEILING PLENUM, DO NOT CARRY A HOME RUN FROM ONE DEVICE TO ANOTHER WHICH IS TIED TO A SEPARATE HOME RUN INSIDE THE WALL. MARK ON ALL THE J-BOXES THE CIRCUIT NAMES AND NUMBERS. USE NO. 10 THHN CONDUCTORS FOR HOME RUNS OVER 100 FEET, NO. 8 THHN OVER 200 FEET, NO. 6 THHN OVER 300 FEET AND NO. 4 THHN OVER 400 FEET LENGTH.

12. PAINT ALL THE J-BOXES FOR THE FIRE ALARM SYSTEM WITH RED PAINT. MARK ALL THE CONDUITS FOR THE FIRE ALARM SYSTEM EVERY 8' WITH RED TAPE.

13. COORDINATE WITH THE OWNER AND ARCHITECT FOR THE EXACT LOCATION OF ALL DEVICES INCLUDING OUTLETS, AND LIGHT SWITCHES.

14. SEAL AROUND ALL CONDUIT PENETRATIONS THROUGH WALLS AND CEILINGS WITH FIRE RATED MATERIAL. 3M IS AN APPROVED MANUFACTURER.

15. ALL MATERIALS USED IN THIS INSTALLATION SHALL BE U.L. APPROVED AND NEW.

16. ALL ELECTRICAL WIRING MUST BE IN CONDUIT (ROMEX AND MC CABLE ARE NOT PERMITTED).

17. FLEXIBLE CONDUITS CAN ONLY BE USED FOR SHORT RUNS (6' MAXIMUM).

18. NO CONDUITS SHALL RUN IN DUCT WORK.

19. PRIOR TO SUBMITTING A BID THE ELECTRICAL CONTRACTOR SHALL INSPECT THE SITE AND INCLUDE IN HIS BID PACKAGE ALL CHARGES DUE TO EXISTING CONDITIONS. SHOP DRAWINGS ARE REQUIRED, ALL LABOR, MATERIAL AND WORKMANSHIP SHALL BE GUARANTEED FOR A PERIOD OF 1 YEAR FROM THE DATE OF ACCEPTANCE BY THE TENANT. REPLACE OR REPAIR ALL DEFECTS DURING THE GUARANTEED PERIOD.

20. THE ELECTRICAL CONTRACTOR SHALL TERMINATE THE ELECTRICAL CONNECTIONS TO ALL THE EQUIPMENT.

21. ALL DUPLEX OUTLETS AND SWITCHES SHALL BE 20 AMP., HEAVY DUTY SPECIFICATION GRADE. HUBBELL AND PASS & SEYMOUR AND LEVITON ARE APPROVED MANUFACTURERS.

22. ELECTRICAL CONTRACTOR SHALL VERIFY ALL ELECTRICAL LOADS (VOLTAGE, PHASE, CONNECTION REQUIREMENT, ETC.) OF EQUIPMENT FURNISHED UNDER OTHER DIVISIONS WITH APPROVED SHOP DRAWINGS PRIOR TO BEGINNING ROUGH-IN.

23. THE CONTRACTOR SHALL INFORM THE ARCHITECT/ENGINEER IN WRITING OF ANY DISCREPANCIES FOUND BETWEEN THE INTENDED FUNCTION OF EQUIPMENT AND EQUIPMENT SPECIFIED IN THE CONTRACT DOCUMENTS GIVE A MINIMUM OF (5) WORKING DAYS PRIOR TO ISSUANCE OF THE FINAL ADDENDUM. FAILURE TO REPORT ANY DISCREPANCY (CATALOG NUMBERS, DISCONTINUED ITEMS, ETC.) DOES NOT RELIEVE THE CONTRACTOR FROM PROVIDING EQUIPMENT WHICH SHALL CONFORM TO AND FULFILL THE INTENT OF THE CONTRACT DOCUMENTS. NOR SHALL IT BE USED AS A CONDITION TO OBTAIN ADDITIONAL FUNDS FROM THE OWNER AFTER THE CONTRACT IS AWARDED. THE CONTRACTOR SHALL REQUEST ALL CLARIFICATIONS OF CONTRACT DOCUMENT REQUIREMENTS IN WRITING TO THE ARCHITECT/ENGINEER A MINIMUM OF FIVE WORKING DAYS PRIOR TO ISSUANCE OF THE FINAL ADDENDUM.

24. PROVIDE A TYPED NAME TAG FOR EACH OUTLET AND LIGHT SWITCH TO INDICATE CIRCUIT NUMBER AND PANELBOARD THE DEVICE IS TIED TO.

25. PROVIDE ENGRAVED NAME TAG FOR ALL NEW DISCONNECTS, TO INDICATE NAME OF DEVICE AND WHERE EACH DEVICE IS TIED TO.

26. PROVIDE NEW TYPED AND DATED PANEL SCHEDULES FOR NEW AND EXISTING PANELBOARDS SHOWING THE CHANGES MADE UNDER THIS CONTRACT.

LIGHTING FIXTURE SCHEDULE

SYMBOL	DESCRIPTION	LAMPS	APPROVED MANUFACTURERS	CATALOG NUMBER
1-1	2'x4' LAY-IN FLUORESCENT FIXTURE, FLUSH STEEL DOOR, A12 .125" PRISMATIC ACRYLIC LENS, TWO BALLASTS	(4) 32W T8	COLUMBIA	STB24-4S20-FSA12 125-(2)CBBLM120

NOTES:
1. ALL FLUORESCENT LIGHTS SHALL HAVE ELECTRONIC PROGRAMMABLE START BALLASTS, 10% TOTAL HARMONIC DISTORTION. UNIVERSAL, ADVANCE AND HOWARD ARE APPROVED MANUFACTURERS. BALLASTS TO HAVE 5 YEAR WARRANTY.
2. ALL FLUORESCENT LAMPS SHALL HAVE COLOR TEMPERATURE TO MATCH EXISTING.
3. FIELD VERIFY ALL LIGHTING VOLTAGES PRIOR TO PLACING ANY ORDER.
4. THE WRITTEN CRITERIA OF THE FIXTURE DESCRIPTION TAKES PRECEDENCE OVER THE CATALOG NUMBER.

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CREATED BY: JSA ARCHITECTS

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BUILDING NAME: JLTC

RM# N/A
JLTC WAREHOUS
SCIF
O. D. D.
OGDEN, UTAH

PROJECT TITLE: SCIF

OGDEN, UTAH
JLTC FACILITY
AT
OGDEN DEFENSE
DEPOT

MARK	DATE	DESCRIPTION

ISSUE TYPE: BID SET

ISSUE DATE: SEPT. 8, 2004

DFCM PROJECT NO: 00XXXXXX
ECE PROJECT NO: 03220480
CAD DWG FILE:
DRAWN BY: DBS
CHK'D BY: DBS
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SHEET TITLE

DETAILS, NOTES, AND SCHEDULES

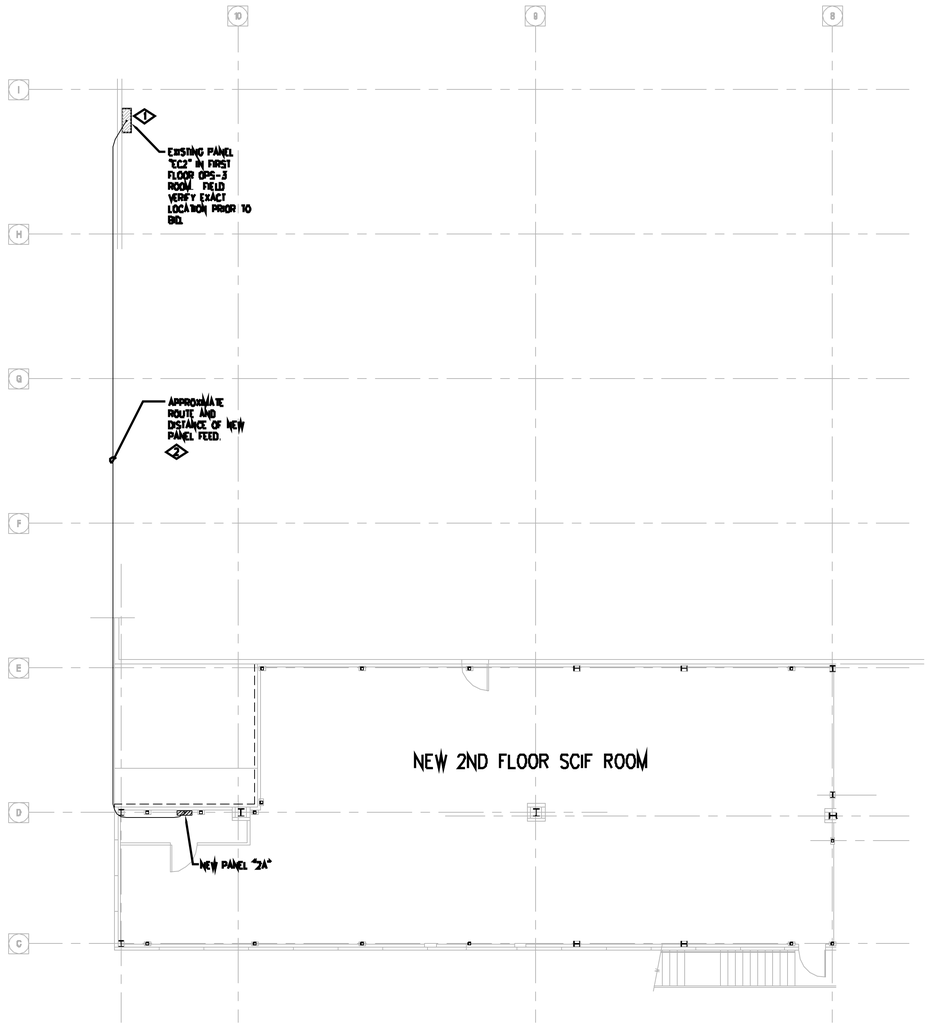
SHEET NUMBER

E001

SHEET 26 OF 28

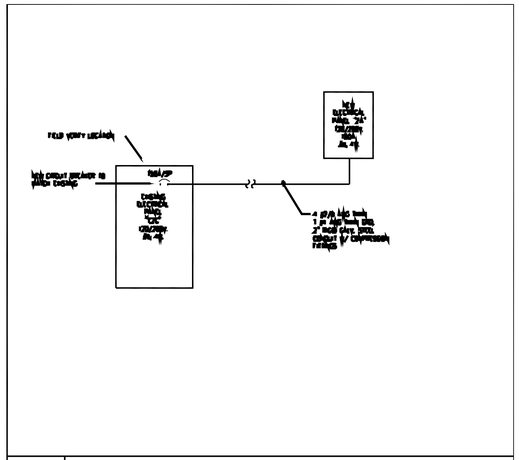
REFERENCE NOTES:

1. EXISTING PANEL IS A GE NLAB STYLE PANEL. PROVIDE A NEW 150A/3P CIRCUIT BREAKER IN THE EXISTING SPARE LOCATION (REMOVE THE EXISTING 30A/3P CIRCUIT BREAKER AND RETURN TO THE OWNER). NEW CIRCUIT BREAKER SHALL EXACTLY MATCH EXISTING IN AIC RATING AND MANUFACTURER.
2. ROUTE THE NEW CONDUIT FOR THE PANEL FEED OUTSIDE THE WALL OF THE EXISTING SCIF AREA (INSIDE THE WAREHOUSE), THEN STUB THE CONDUIT BACK INTO THE OPS-3 ROOM WHERE PANEL "E2C" IS LOCATED. FIELD VERIFY THE EXACT ROUTE PRIOR TO BID. PROVIDE ALL LABOR AND MATERIALS REQUIRED FOR A COMPLETE INSTALLATION.



N

FLOOR PLAN - ELECTRICAL PANEL FEED
SCALE: 1/8" = 1'-0"



SCALE: N.T.S.

PARTIAL POWER SINGLE LINE DIAGRAM

PANEL NO. "2A" VOLTAGE 120/208 4 WIRE x
SURFACE x FLUSH ___ MOUNTED. TYPE NOOD MAIN BREAKER ___
MAINS ONLY 150 A. FEED SEE PSLD LOCATION AS SHOWN

AREA SERVED	LOAD	CCT	BKR	A	B	C	BKR	CCT	LOAD	AREA SERVED
OUTLETS	720	1	20				20	2	1800	LIGHTS
	720	3	20				20	4	1800	LIGHTS
	540	5	20				20	6	1800	LIGHTS
	540	7	20					8		
	540	9	20				50	10	4850	CU-1
	540	11	20					12		
	540	13	20				50	14	4850	CU-2
	540	15	20					16		
	540	17	20				50	18	11 K	AH-1
	540	19	20					20		
	720	21	20				50	22	11 K	AH-2
POWER POLES	500	23	20				20	24		SPARE
	500	25	20				20	26		
	500	27	20				20	28		
	500	29	20				20	30		
SPARE		31	20				20	32		
		33	20				20	34		
		35	20				20	36		
		37	20				20	38		
		39	20				20	40		
		41	20				20	42		

SN _____
EG _____

jsa architecture planning interiors
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CREATED BY: JSA ARCHITECTS

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BUILDING NAME: JLTC

RM# N/A
JLTC WAREHOUS
SCIF
O. D. D.
OGDEN, UTAH

PROJECT TITLE: SCIF

OGDEN, UTAH
JLTC FACILITY
AT
OGDEN DEFENSE
DEPOT

MARK	DATE	DESCRIPTION

ISSUE TYPE: BID SET

ISSUE DATE: SEPT. 8, 2004

DFCM PROJECT NO: 03220480
ECE PROJECT NO: 2490
CAD DWG FILE:
DRAWN BY: DBS
CHK'D BY: DBS
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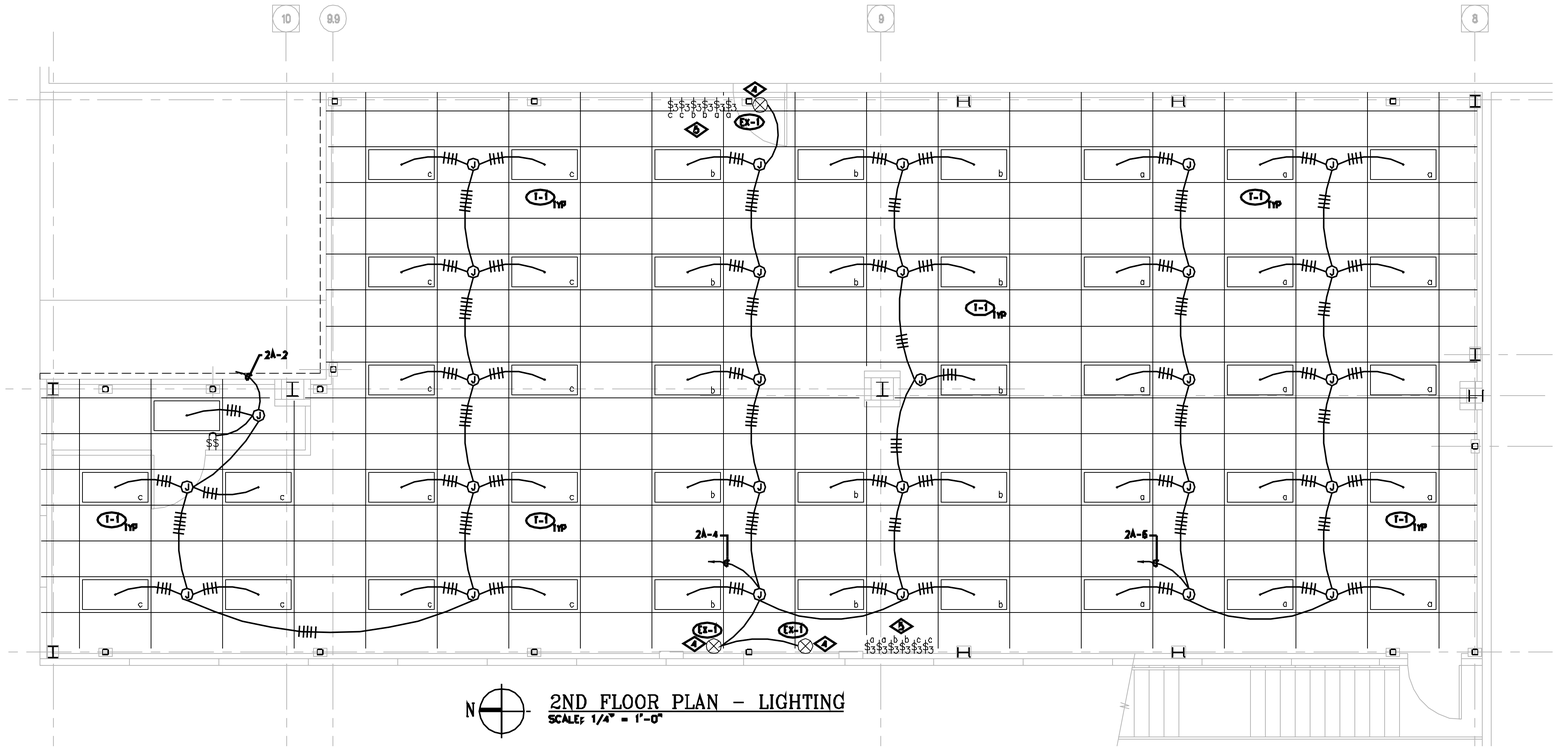
SHEET TITLE

FLOOR PLAN -
NEW PANEL
FEED

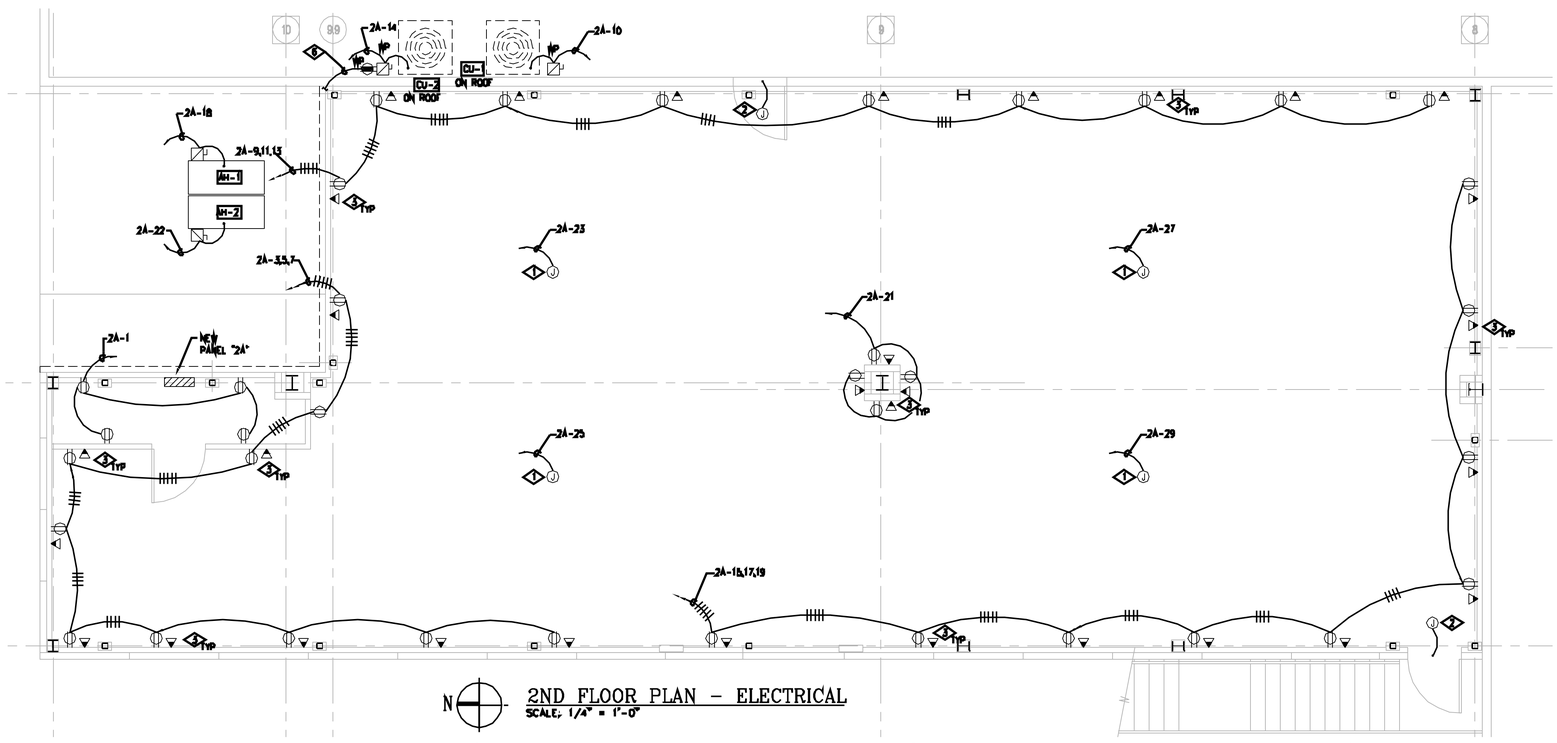
SHEET NUMBER

E200

SHEET 27 OF 28



N 2ND FLOOR PLAN – LIGHTING
SCALE: 1/4" = 1'-0"



N 2ND FLOOR PLAN – ELECTRICAL
SCALE: 1/4" = 1'-0"

REFERENCE NOTES:

1. FURNISH AND INSTALL J-BOXES IN THE CEILING SPACE TO EXTEND 120V POWER TO POWER POLES. POWER POLES TO BE FURNISHED AND INSTALLED BY THE OWNER AT THE END OF THE PROJECT.
2. FURNISH AND INSTALL A J-BOX IN THE CEILING SPACE FOR INSTRUSION DETECTION CABLING (FURNISHED AND INSTALLED BY THE OWNER). RUN A 3/4" CONDUIT FROM THE J-BOX TO THE DOOR FRAME. COORDINATE THIS WORK CLOSELY WITH THE OWNER.
3. FURNISH AND INSTALL FLUSH J-BOXES WITH SINGLE-GANG MUD RINGS FOR VOICE/DATA OUTLETS. RUN (2) 3/4" CONDUITS FROM EACH J-BOX TO THE CEILING SPACE. INSERT PULL STRINGS AND LABEL. PROVIDE PROTECTIVE BUSHINGS ON THE CONDUIT ENDS.

   TIE THE EXIT SIGNS TO UNSWITCHED POWER IN THE ROOM. ENTIRE ROOM IS ON EMERGENCY GENERATOR POWER.
4. FURNISH AND INSTALL THE SWITCHES TO CONTROL THE CENTER LAMPS OF EACH FIXTURE SEPARATELY FROM THE OUTBOARD LAMPS.
5. TIE THE ROOF TOP CONVENIENCE OUTLET TO THE NEAREST 120V CONVENIENCE OUTLET CIRCUIT WITH SPARE CAPACITY.
6.

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SHEET TITLE

2ND FLOOR
PLANS -
ELECTRICAL

SHEET NUMBER

E201

SHEET 28 OF 28