Contract Drawings For

Mountain Home Air Force Base

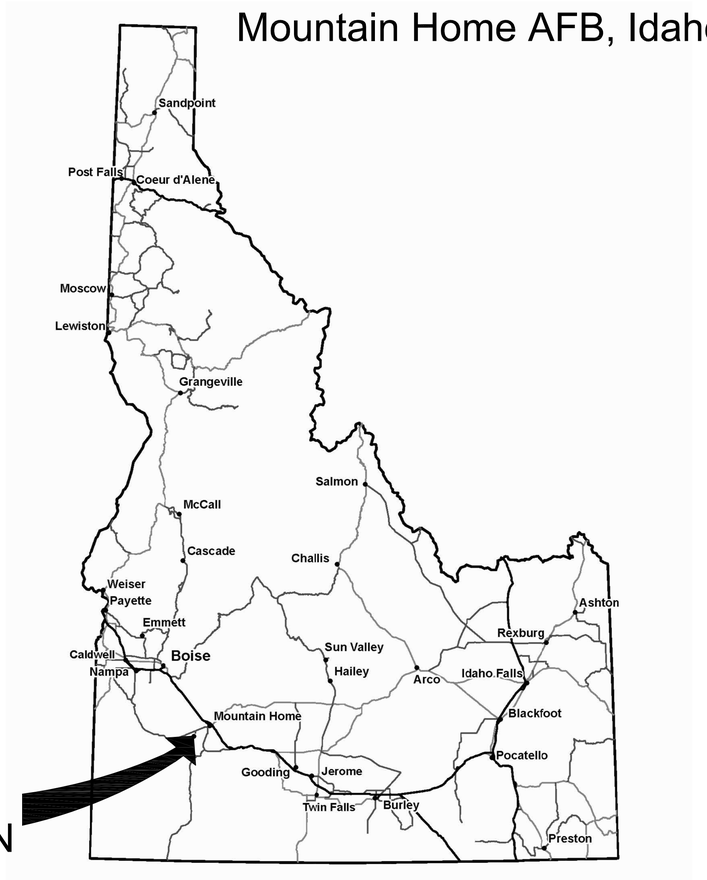
CHAPEL KITCHEN RENOVATION, FACILITY 2606

PROJECT NUMBER FA4897-19-C-A018

12 MARCH 2020

100% Submittal

Mountain Home AFB, Idaho



PROJECT LOCATION

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LICENSED ARCHITECT AR 985396
SCOTT R. OLCOTT
STATE OF IDAHO

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DESIGNED BY: DESIGN WEST
DWN BY: HARMISON
CKD BY: PEREZ
SUBMITTED BY: PEREZ
PLOT SCALE: AS NOTED
PLOT DATE: 3/12/2020
SIZE: ANSI D
FILE NAME: 101322065
DATE: 12 MARCH 2020
CONTRACT NO.: FA4897-19-C-A016
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CHAPEL KITCHEN RENOVATION, FACILITY 2606
MOUNTAIN HOME AIR FORCE BASE
IDAHO

COVER SHEET

G-001
SHEET 1 OF 30

AUTHORITY HAVING JURISDICTION: THE CONTRACTING OFFICER, & AIR FORCE BASE

PROJECT DESCRIPTION:
THE SCOPE OF WORK IS TO RENOVATE PORTIONS OF MOUNTAIN HOME AFB (MHAFB) – CHAPEL. SCOPE OF WORK INCLUDES REMOVING EXISTING BREAK ROOM KITCHENETTE UPDATING FINISHES IN THE KITCHEN, STORAGE, MECHANICAL AND MULTIPURPOSE ROOM WITH NEW DESIGN.

APPLICABLE CODES:
- UFC 1-200-01 DoD BUILDING CODE GENERAL BUILDING REQUIREMENTS (JUNE 20, 2016)
- UFC 3-410-01 HEATING, VENTILATING, AND AIR CONDITIONING SYSTEMS (CHANGE 4, NOVEMBER 2017)
- UFC 3-420-01 PLUMBING SYSTEMS (CHANGE 10, OCTOBER 26, 2015)
- UFC-3-600-01 FIRE PROTECTION ENGINEERING FOR FACILITIES (CHANGE 2, MARCH 25, 2018)
- UFC 3-601-02 OPERATION AND MAINTENANCE: INSPECTION, TESTING, AND MAINTENANCE OF FIRE PROTECTION SYSTEMS (SEPTEMBER 8, 2010)
- UFC 4-010-01 MINIMUM ANTITERRORISM STANDARD (CHANGE 1, OCTOBER 1, 2013)
- UFC 4-021-01 MASS NOTIFICATION SYSTEMS (FEBRUARY 8, DRAFT 2017)
- 2015 INTERNATIONAL BUILDING CODE (ICC)
- 2015 INTERNATIONAL MECHANICAL CODE (ICC)
- 2017 NATIONAL ELECTRICAL CODE – NFPA 70
- 2015 INTERNATIONAL PLUMBING CODE (ICC)
- 2015 ABA ACCESSIBILITY STANDARD OF DOD FACILITIES
- 2018 LIFE SAFETY CODE – NFPA 101

CODE APPROACH:
FACILITIES, AS THEY EXIST, ARE REQUIRED (UFC 3-600-01, SECTION 34-1.1) TO MEET THE REQUIREMENTS OF NFPA 101, FOR EXISTING OCCUPANCIES. FACILITIES THAT DO NOT MEET THE REQUIREMENTS OF NFPA 101 FOR EXISTING OCCUPANCIES MUST CONFORM TO ONE OF THE FOLLOWING:

A. UPGRADE THE DEFICIENCY TO MEET THE EXISTING OCCUPANCY REQUIREMENTS; OR ESTABLISH MANAGEMENT PROTOCOLS TO PROVIDE A LEVEL OF LIFE SAFETY EQUIVALENT TO THAT REQUIRED BY NFPA 101 FOR EXISTING OCCUPANCIES, UNTIL AN UPGRADE PROJECT CAN BE COMPLETED. MANAGEMENT PROTOCOLS MUST BE IN WRITING AND APPROVED BY THE AHJ.

B. IMPLEMENTATION OF THE DOD MINIMUM ANTITERRORISM STANDARDS FOR BUILDINGS STANDARD TO BRING ENTIRE INHABITED BUILDINGS INTO COMPLIANCE IS MANDATORY FOR ALL DOD BUILDING RENOVATIONS, MODIFICATIONS, REPAIRS, REVITALIZATIONS, AND RESTORATIONS WHERE PROJECT COSTS EXCEED 50% OF THE PLANT REPLACEMENT VALUE OF THE EXISTING BUILDING IN ACCORDANCE WITH UFC 3-701-01 BASED ON A BUILDING OF THE SAME SIZE EXCEPT AS OTHERWISE STATED IN THESE STANDARDS. THE 50% COST IS EXCLUSIVE OF THE COSTS IDENTIFIED TO MEET THESE STANDARDS (UFC 4-010-01). THE SCOPE OF WORK FOR THIS PROJECT IS NOT EXPECTED TO EXCEED 50% OF THE BUILDING REPLACEMENT COST.

CODE COMPLIANCE SITE PLAN:
THE ENTIRE BUILDING PERIMETER MAINTAINS A MINIMUM OF 30 FEET OF OPEN SPACE AROUND THE BUILDING. THE FOOT PRINT OF THE BUILDING IS NOT INCREASED AS A PART OF THIS SCOPE OF WORK. THE BUILDING LOT AND ACCESS ROADS ARE MAINTAINED AS EXISTING CONDITIONS. CIVIL IMPROVEMENTS AS PART OF THIS SCOPE OF WORK. INCLUDE WATER SUPPLY TO NEW SPRINKLER SYSTEM AND SIDEWALK TO NEW EGRESS DOOR.

OCCUPANCY CLASSIFICATION:
EXISTING ASSEMBLY (A-3), KITCHEN (A-2) (NFPA 101 CH 13)

INCIDENTAL USE:	STORAGE (NFPA 101 SECTIONS 6.1.14.1.3) EXISTING BUSINESS (OFFICES)
TYPE OF CONSTRUCTION:	TYPE (V-B)
ALLOWABLE HEIGHT/STORIES:	40 FT / 1 STORY (TABLES 504.3 AND 504.4)
ACTUAL HEIGHT/STORIES:	20 FT /1 STORY

A-2 AND A-3 OCCUPANCY:

ALLOWABLE BUILDING AREA (PER STORY) (TABLE 506.2)	6,000 FT^2
ALLOWABLE FRONTAGE INCREASE (506.3) 1.75 X 6,000 FT^2 =	10,500 FT^2
ACTUAL TOTAL BUILDING AREA:	12,920 FT^2

EXISTING NON-CONFORMING CONDITION. BUILDING WILL BE CODE COMPLIANT WHEN BUILDING IS PROTECTED THROUGHOUT WITH A FIRE SPRINKLER SYSTEM.

ACTIVE FIRE RESISTANCE:

IDENTIFY FIRE RATED WALLS	IBC §703.7 REQUIRES FIRE RESISTIVE WALLS TO BE IDENTIFIED WITH SIGNS OR STENCILING.
STRUCTURAL FRAME (COLUMNS, BEAMS & GIRDERS CONNECTING TO COLUMNS, BEARING WALLS & DIAGONALS CARRYING GRAVITY LOADS)	0-HOUR (IBC TABLE 601)
INTERIOR AND EXTERIOR BEARING INTERIOR WALLS SEPARATING	0-HOUR (IBC TABLE 601) WALLS
SPRINKLERED TO NON-SPRINKLERED	2-HOUR (WALL ASSEMBLIES)
EXISTING SEPARATION CORRIDOR TO MULTIPURPOSE ROOM	1-HOUR
EXTERIOR WALL	0-HOUR; FIRE SEPARATION DISTANCE GREATER THAN 10 FEET. (IBC TABLE 602)
EXTERIOR NONBEARING WALLS	0-HOUR CONSTRUCTION (IBC TABLE 602)
ROOF CONSTRUCTION	0-HOUR (IBC TABLE 601)
ROOF COVERING	CLASS C (IBC TABLE 1505.4)
FLOOR CONSTRUCTION	0-HOUR (IBC TABLE 601)
EXTERIOR NONBEARING WALLS	0-HOUR CONSTRUCTION (IBC TABLE 602)
PERMANENT PARTITIONS	0-HOUR (IBC TABLE 601)

PROVIDE PROTECTION OF HAZARDS AS REQUIRED BY NFPA-101 8.7.

CORRIDORS	0-HOUR (NFPA 101 §13.3.6)
STORAGE ROOMS > 100 SQ. FT.	0-HOUR SMOKE PARTITION (NFPA 101 §8.7)
ELECTRICAL ROOM	0-HOUR SMOKE PARTITION (ASSUME NO TRANSFORMERS)
WALL PENETRATIONS	F RATING EQUAL TO THE RATING IF THE WALL PENETRATED (IBC §714.3)
FLOOR PENETRATIONS	F RATING: 0-HOURS AND T RATING: 0-HOURS (IBC §714.4)
CEILING PENETRATIONS	F RATING EQUAL TO THE RATING IF THE CEILING PENETRATED (IBC §714) AND PER UL-I503 CEILING ASSEMBLY LISTING REQUIREMENTS

INTERIOR FINISH:

WALL AND CEILING FINISH (NFPA 101 CH.10):	SMOKE DEVELOPED OF 450 OF LESS, AND,
INSIDE CORRIDORS	CLASS A OR B
INSIDE ROOMS	CLASS A, B OR C
FLOOR FINISH	DOC FF 1-70 "PILL TEST" (FEDERALLY MANDATED)
PLENUMS (IMC §602)	CLASS A AND SMOKE DEVELOPED OF 50 OF LESS.

ACTIVE FIRE PROTECTION:

AUTOMATIC SPRINKLER SYSTEM	REQUIRED FOR RENOVATED KITCHEN AREA. NO FIRE SPRINKLERS ABOVE CEILING ASSEMBLY
HYDRANT FLOW TEST DATA:	
HYDRANT B-98	SEPTEMBER 19, 2018: 4074 GPM AT 20 PSI RESIDUAL
REQUIRED FIRE FLOW	3,000 GPM FOR 3-HOURS (NFPA 1, TABLE 18.4.5.2.1 WITH SPRINKLER REDUCTION PER §18.4.5.3.2)
STANDPIPES	NOT REQUIRED
FIRE ALARM SYSTEM	VOICE EVAC REQUIRED (NFPA 101 §13.3.4.1.1 AND 13.3.4.3)
MASS NOTIFICATION SYSTEM	NOT REQUIRED FOR LOW OCCUPANCY BUILDING NOT ROUTINELY OCCUPIED (UFC 4-010-01)
SMOKE DETECTION	NOT REQUIRED (NFPA 101 §13.3.4.2.1) SMOKE DETECTOR PROVIDED ABOVE NEW NAC PANEL PER NFPA 72.
FIRE EXTINGUISHERS	NOT REQUIRED (NFPA 101 §13.3.5, UFC 3-600-01 C2 §19-7.1)

*** NOTE: FOR SYSTEMS REQUIRING UPGRADES, THE UPGRADES ARE ONLY REQUIRED WITHIN THE SCOPE OF WORK. AREAS OUTSIDE SCOPE OF WORK WILL BE ADDRESSED ON FUTURE RENOVATIONS/MODIFICATIONS ***

EMERGENCY POWER:

EXIT SIGNS	REQUIRED (NFPA 101 §7.10.5.1)
EGRESS ILLUMINATION	REQUIRED (NFPA 101 §13.2.9.1)

MINIMUM HEIGHT:

CORRIDORS AND ROOMS:	90 IN. (NFPA 101 §7.1.5.1)
DOOR	80 IN. (NFPA 101 §7.2.1.2.1.1(6))

EXITING:
OCCUPANT LOAD FACTORS (NFPA 101 TABLE 7.3.1.2) (SQUARE FEET PER PERSON)

OFFICE AREAS	100 (GROSS)
ASSEMBLY	
(TABLES AND CHAIRS)	15 (NET)
(STANDING ROOM)	5 (NET)
KITCHENS	200 (GROSS)
MECHANICAL/STORAGE ROOMS	500 (GROSS)

DOOR HARDWARE:
PANIC HARDWARE
- REQUIRED FOR ASSEMBLY OCCUPANT LOADS GREATER THAN 100
- REQUIRED ON ALL GROUND FLOOR EXIT DOORS.

PERMITTED EXIT DOOR HARDWARE	PANIC HARDWARE
DELAYED EGRESS LOCKS	NOT IN SCOPE
ACCESS-CONTROLLED EGRESS DOORS	NOT IN SCOPE
LOCKS ON THE MAIN DOOR	NOT IN SCOPE

DOOR SWING:
IN THE DIRECTION OF EGRESS IF SERVING AREA WITH 50 OR MORE (NFPA 101 §7.2.1.4.2)

DISTANCES (EXISTING BUILDINGS):

CORRIDOR DEAD ENDS	20 FEET IN ASSEMBLY OCCUPANCIES WITH GREATER THAN 50 OCCUPANTS (NFPA 101 TABLE A.7.6)
TRAVEL DISTANCE	200 FEET IN NON-SPRINKLERED ASSEMBLY OCCUPANCIES (NFPA 101 TABLE A.7.6)
COMMON PATH OF TRAVEL	75 FEET IN NON-SPRINKLERED ASSEMBLY OCCUPANCIES WITH GREATER THAN 50 OCCUPANTS (NFPA 101 TABLE A.7.6)

EXIT WIDTHS:

DOORS	0.2 IN PER PERSON (NFPA 101 TABLE 7.3.3.1)
MINIMUM DOOR WIDTH	32 IN CLEAR (NFPA 101 §7.2.1.3.2 (1))
MINIMUM CORRIDOR WIDTH	OCCUPANT LOAD / # EXITS (NFPA 101 §7.3.3.3)

*** SEE LIFE SAFETY PLAN FOR ACTUAL OCCUPANT LOAD AND PROVIDED EXIT CAPACITIES ***

NUMBER OF EXITS FROM SPACES:

ASSEMBLY/BUSINESS	ONE EXIT IS PERMITTED IF THE COMMON PATH OF TRAVEL IS NOT EXCEEDED. TWO EXITS ARE REQUIRED FROM EACH SPACE WHEN THE COMMON PATH OF TRAVEL IS EXCEEDED. THREE EXITS ARE REQUIRED WHEN THE POPULATION IS > 500 PEOPLE (NFPA 101 §7.4.1.2)
EXIT SEPARATION	SEPARATED BY NOT LESS THAN ONE-HALF THE DIAGONAL OF THE BUILDING OR AREA SERVED (NFPA 101 §7.5.1.3.3) WHEN NOT EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM.
EXITS AND CONTINUITY	THE REQUIRED NUMBER OF EXITS AND EXIT ACCESS SHALL BE MAINTAINED UNTIL ARRIVAL AT GRADE AND A PUBLIC WAY. (NFPA 101 §7.4.1.4)
NUMBER OF EXITS	2 EXITS FROM EACH STORY (NFPA 101 §13.2.4.1) SIDEWALK REQUIRED FROM EXTERIOR EXIT DOORS TO THE PUBLIC WAY.

*** SEE LIFE SAFETY PLAN FOR ACTUAL EXIT LOCATIONS AND ARRANGEMENT ***

LIGHTS:

EXIT SIGNS	REQUIRED IN SPACES WHERE TWO EXIT PATHS ARE REQUIRED (NFPA 101 §7.10.1)
EGRESS ILLUMINATION	1 FOOT-CANDLE ON NORMAL POWER THROUGHOUT (NFPA 101 §7.8.1.3 (2))
EGRESS ILLUMINATION	1 FOOT-CANDLE ON EMERGENCY POWER IN SPACES REQUIRED TO HAVE 2 WAYS OUT, CORRIDORS, AND EXTERIOR LANDINGS (NFPA 101 §13.2.9.1(3) AND 7.9.2.1)

MEANS OF EGRESS FOR THE DISABLED:

AREAS OF REFUGE	SHALL MEET NFPA §7.2.12.1.1 (NFPA 101 SECTION 13.2.2.12).

ACCESSIBLE MEANS OF EGRESS:
ACCESSIBLE MEANS OF EGRESS IN THIS BUILDING HAVE THE FOLLOWING REQUIREMENTS:

• SMOKE SEPARATION INTO TWO COMPARTMENTS	NOT REQUIRED
• TWO ACCESSIBLE MEANS OF EGRESS	REQUIRED

PROJECT LOCATION

VICINITY MAP

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LICENSED ARCHITECT AR 985396
SCOTT R. OLCOTT
STATE OF IDAHO

MARK	DESCRIPTION	DATE	APPR.
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MARK	DESCRIPTION	DATE	APPR.
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DESIGNED BY: PEREZ
DWN BY: GIANG
CKD BY: PEREZ
SUBMITTED BY: PEREZ
DATE: 12 MARCH 2020
CONTRACT NO.: FA4897-19-C-A016
PLOT SCALE: AS NOTED
PLOT DATE: 03/10/20
FILE NUMBER: 10132265
SIZE: ANSI D
FILE NAME: G-002 Code Analysis.dwg

366 CES/CEN
MOUNTAIN HOME AIR FORCE BASE

design west | architects
765 S 400 W
SALT LAKE CITY, UT 84101
(801) 534-0221

CHAPEL KITCHEN RENOVATION, FACILITY 2806
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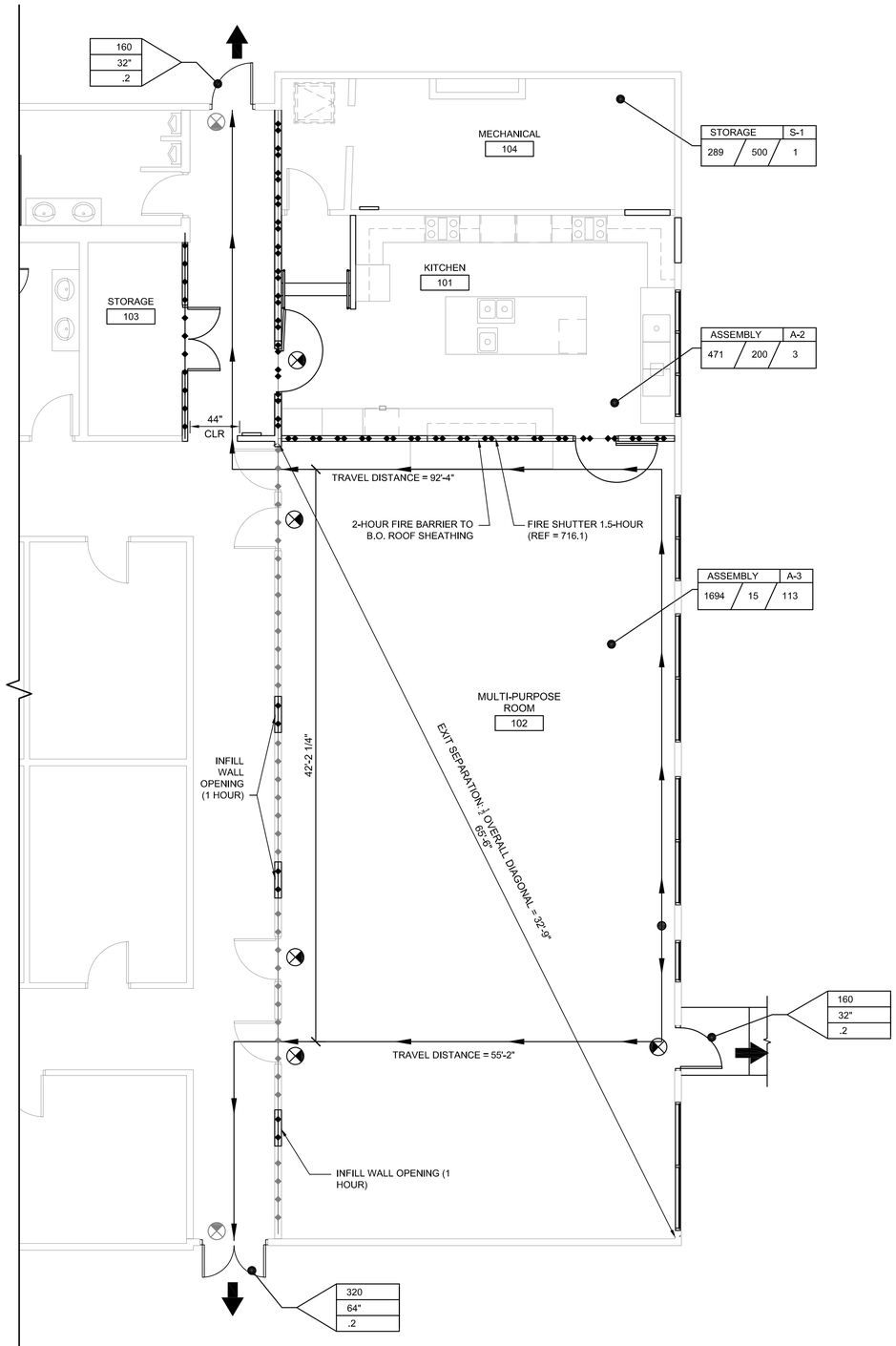
CODE ANALYSIS

G-002
SHEET 2 OF 30



LIFE SAFETY FLOOR PLAN

SCALE: 3/16"=1'-0"

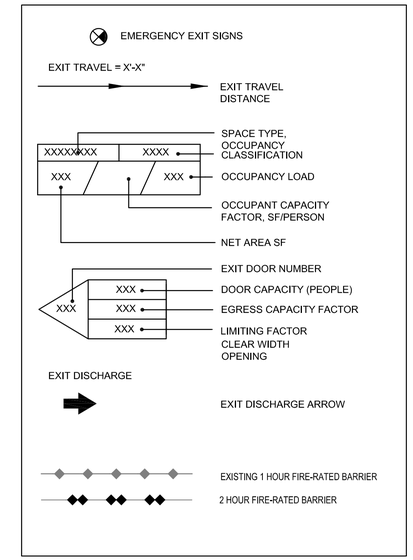
0 4' 8' 16'

N

LIFE SAFETY NOTES

1. MAINTAIN 32" MINIMUM CLEAR WIDTH AT ALL EGRESS DOORS.
2. MAINTAIN 44" CLEAR MINIMUM THROUGHOUT THE CORRIDOR
3. EXITS AND EXIT ACCESS DOORS SHALL BE MARKED BY AN APPROVED EXIT SIGN READILY VISIBLE FROM ANY DIRECTION OF EGRESS TRAVEL. THE PATH OF EGRESS TRAVEL TO EXITS AND WITHIN EXITS SHALL BE MARKED BY READILY VISIBLE EXIT SIGNS TO CLEARLY INDICATE THE DIRECTION OF EGRESS TRAVEL IN CASES WHERE THE EXIT OR THE PATH OF EGRESS TRAVEL IS NOT IMMEDIATELY VISIBLE TO THE OCCUPANTS.

LIFE SAFETY LEGEND



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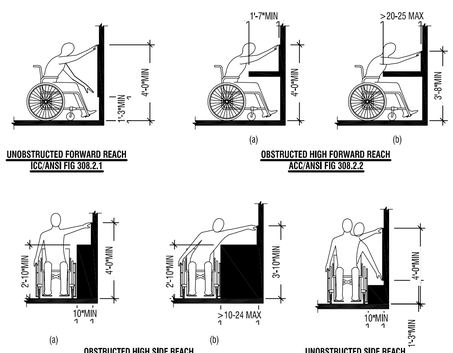
LIFE SAFETY PLAN

G-003
SHEET 3 OF 30

ADA GENERAL NOTES

THE PROJECT IS TO MEET THE 2015 IBC AND THE ICC/ANSI A117.1-2003 CODES FOR ACCESSIBILITY. THE MOST STRINGENT REQUIREMENTS SHALL BE UTILIZED IN THE CONSTRUCTION OF THIS PROJECT. THE FOLLOWING DIAGRAMS AND NOTES AREPROVIDED ONLY AS A GUIDE TO THIS PROJECT. THE CONTRACTOR SHALL BE FAMILIAR WITH ALL CODES AND NOTIFY THE ARCHITECT IF THESE NOTES AND DIAGRAMS ARE CONTRADICTORY TO THE ACTUAL CONSTRUCTION. CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE CODES. IF THERE IS A DISCREPANCY, THE ADOPTED CODES AND ENFORCED LAWS TAKE PRECEDENCE.



UNOBSTRUCTED FORWARD REACH
ICC/ANSI FIG 308.2.1

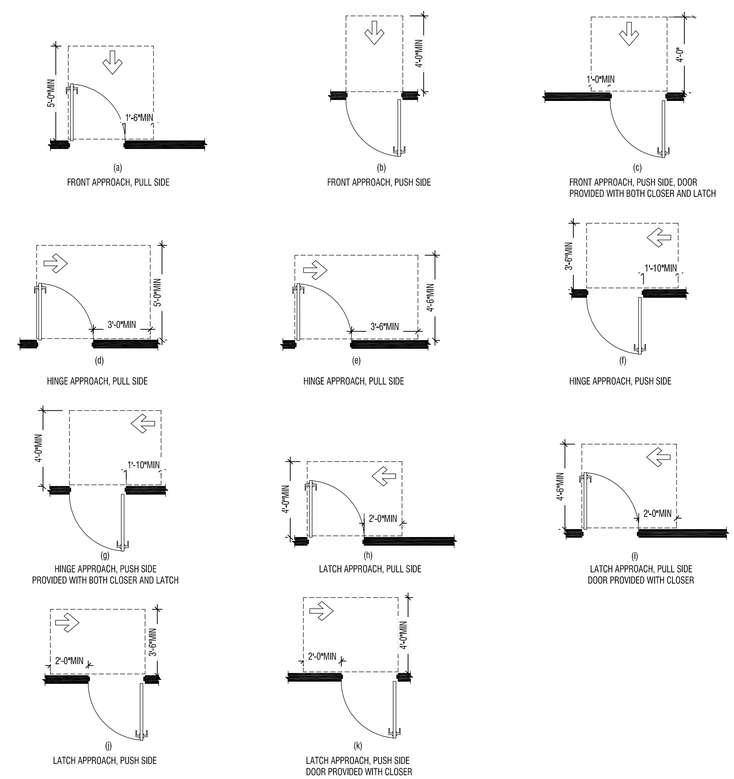
OBSTRUCTED HIGH FORWARD REACH
ACC/ANSI FIG 308.2.2

OBSTRUCTED HIGH SIDE REACH
ICC/ANSI FIG 308.3.2

UNOBSTRUCTED SIDE REACH
FIG 308.3.1

B1 REACH DETAIL

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



FRONT APPROACH, PULL SIDE

FRONT APPROACH, PUSH SIDE

FRONT APPROACH, PUSH SIDE, DOOR PROVIDED WITH BOTH CLOSER AND LATCH

HINGE APPROACH, PULL SIDE

HINGE APPROACH, PULL SIDE

HINGE APPROACH, PUSH SIDE

HINGE APPROACH, PUSH SIDE PROVIDED WITH BOTH CLOSER AND LATCH

LATCH APPROACH, PULL SIDE

LATCH APPROACH, PULL SIDE DOOR PROVIDED WITH CLOSER

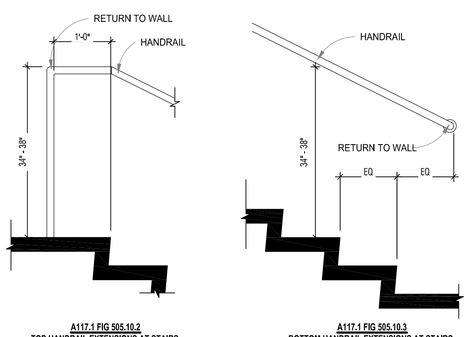
LATCH APPROACH, PUSH SIDE

LATCH APPROACH, PUSH SIDE DOOR PROVIDED WITH CLOSER

MANEUVERING CLEARANCES AT MANUAL SWINGING DOORS
ICC/ANSI FIG 404.2.3.1

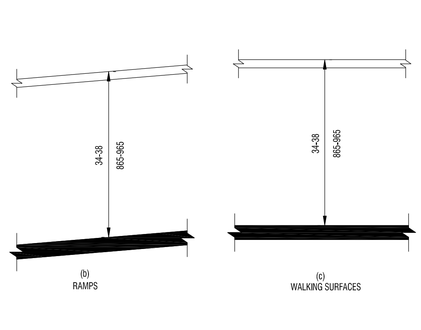
B2 DOOR SWING CLEARANCE

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

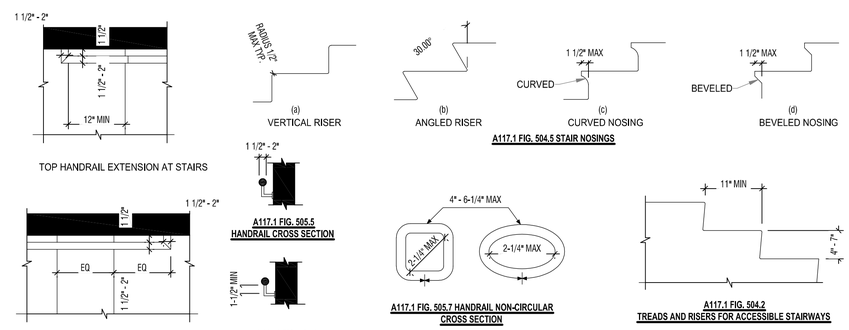


A117.1 FIG 505.10.2
TOP HANDRAIL EXTENSIONS AT STAIRS

A117.1 FIG 505.10.3
BOTTOM HANDRAIL EXTENSIONS AT STAIRS



HANDRAIL HEIGHT ICC/ANSI FIG 505.4



TOP HANDRAIL EXTENSION AT STAIRS

BOTTOM HANDRAIL EXTENSION AT STAIRS

A117.1 FIG. 505.5
HANDRAIL CROSS SECTION

A117.1 FIG. 505.6
HANDRAIL CLEARANCE

A117.1 FIG. 504.5 STAIR NOSINGS

A117.1 FIG. 505.7 HANDRAIL NON-CIRCULAR CROSS SECTION

A117.1 FIG. 504.2
TREADS AND RISERS FOR ACCESSIBLE STAIRWAYS

A1 ADA RAILING AND STAIRS

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

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765-1-60.1#
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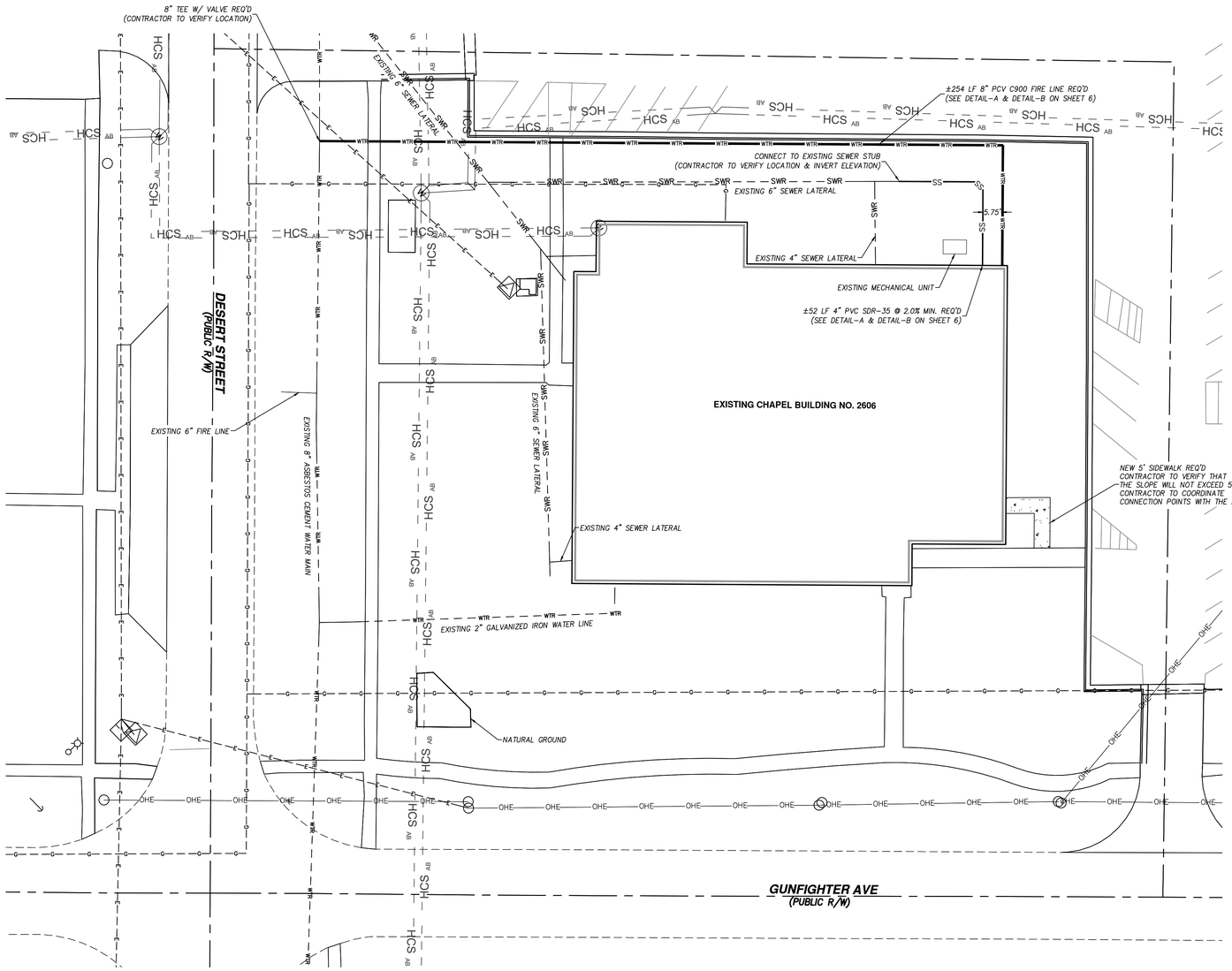
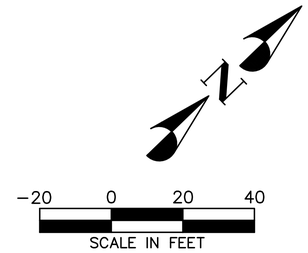
IDAHO

ADA DETAILS

G-004
SHEET 4 OF 30





LEGEND

- EXISTING BUILDING
- EXISTING CURB & GUTTER
- EXISTING CONCRETE
- EXISTING CENTERLINE
- EXISTING WATER LINE
- EXISTING SEWER LINE
- EXISTING GAS LINE
- EXISTING UNDERGROUND ELECTRICAL
- EXISTING OVERHEAD ELECTRICAL
- PROPOSED WATER LINE
- PROPOSED SEWER LINE

GENERAL NOTES

1. CONTRACTOR SHALL FIELD VERIFY LOCATIONS AND INVERT ELEVATIONS OF EXISTING MANHOLES AND OTHER UTILITIES BEFORE STAKING OR CONSTRUCTING ANY NEW SEWER LINES.
2. IT IS THE CONTRACTORS RESPONSIBILITY TO CONTACT BLUE STAKES OF UTAH PRIOR TO STARTING ANY ACTIVITIES. ALL EXISTING UTILITIES SHOWN ON THE PLANS ARE APPROXIMATIONS ONLY.
3. EXISTING UNDERGROUND UTILITIES AND IMPROVEMENTS ARE SHOWN IN THEIR APPROXIMATE LOCATIONS BASED UPON RECORD INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS. LOCATIONS MAY NOT HAVE BEEN VERIFIED IN THE FIELD AND NO GUARANTEE IS MADE AS TO THE ACCURACY OR COMPLETENESS OF THE INFORMATION SHOWN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXISTENCE AND LOCATION OF THE UTILITIES SHOWN ON THESE PLANS OR INDICATED IN THE FIELD BY LOCATION SERVICES. ANY ADDITIONAL COSTS INCURRED AS A RESULT OF THE CONTRACTOR'S FAILURE TO VERIFY THE LOCATIONS OF EXISTING UTILITIES PRIOR TO THE BEGINNING OF CONSTRUCTION IN THEIR VICINITY SHALL BE BORNE BY THE CONTRACTOR AND ASSUMED INCLUDED IN THE CONTRACT. THE CONTRACTOR IS TO VERIFY ALL CONNECTION POINTS WITH THE EXISTING UTILITIES. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE CAUSED TO THE EXISTING UTILITIES AND UTILITY STRUCTURES THAT ARE TO REMAIN. IF CONFLICTS WITH EXISTING UTILITIES OCCUR, THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO CONSTRUCTION TO DETERMINE IF ANY FIELD ADJUSTMENTS SHOULD BE MADE.
4. IF DURING THE CONSTRUCTION PROCESS, CONDITIONS ARE ENCOUNTERED WHICH INDICATE AN UNIDENTIFIED SITUATION IS PRESENT, THE CONTRACTOR SHALL CONTACT CONTRACTING OFFICER AND ENGINEER IMMEDIATELY.
5. DIMENSIONS FOR LAYOUT AND CONSTRUCTION ARE NOT TO BE SCALED FROM ANY DRAWING. IF PERTINENT DIMENSIONS ARE NOT SHOWN CONTACT ENGINEER FOR CLARIFICATION.

REGISTERED PROFESSIONAL ENGINEER
No. 7544732
RYAN KITCHEN
01-22-20
STATE OF UTAH

MARK	DESCRIPTION	DATE	APPR.	MARK	DESCRIPTION	DATE	APPR.
1				8			
2				9			
3				10			
4				11			
5				12			
6				13			
7				14			

DESIGNED BY: | DATE: 22 JANUARY 2020
DWN BY: ELC | CKD BY: RLK | CONTRACT NO.: FA4897-19-C-A016
SUBMITTED BY: | FILE NUMBER: 10132265
PLOT SCALE: AS NOTED | PLOT DATE: 09/11/20 | FILE NAME: UTIL-01
PLOT STYLE: NONE | XREF: NONE

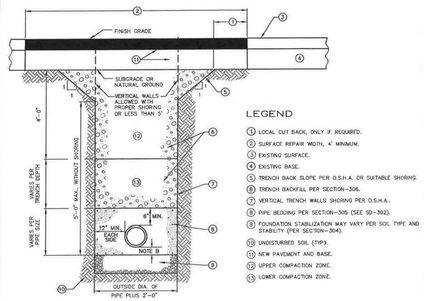
366 CES/CEN
MOUNTAIN HOME AIR FORCE BASE

design west | architects
795 N 400 W
SALT LAKE CITY, UTAH 84103
(801) 539-1271

CHAPEL KITCHEN RENOVATION, FACILITY 2606
MOUNTAIN HOME AIR FORCE BASE
IDAHO

C-101

SHEET 5 OF 31



LEGEND

1. LOCAL CUT BACK, ONLY IF REQUIRED.
2. SURFACE REPAIR WIDTH, 4' MINIMUM.
3. EXISTING SURFACE.
4. EXISTING BASE.
5. TRENCH BACK SLOPE PER O.S.H.A. OR SUITABLE SHORING.
6. TRENCH BACKFILL PER SECTION-306.
7. VERTICAL TRENCH WALLS SHORING PER O.S.H.A..
8. PIPE BEDDING PER SECTION-305 (SEE SD-302).
9. FOUNDATION STABILIZATION MAY VARY PER SOIL TYPE AND STABILITY (PER SECTION-304).
10. UNDISTURBED SOIL (TYP).
11. NEW PAVEMENT AND BASE.
12. UPPER COMPACTION ZONE.
13. LOWER COMPACTION ZONE.

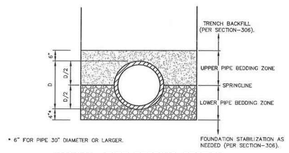
NOTES

A. TRENCH EXCAVATION PER SECTION-301.
B. PIPE BEDDING PER SECTION-305.
C. BACKFILL AND COMPACTION PER SECTION-306.
D. SURFACE REPAIR AND BASE PER SECTION-307. SEE SD-303.

2015

IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION	TYPICAL TRENCH	STANDARD DRAWING NO. SD-301

DETAIL-A
TRENCH DETAIL
(SEE DETAIL SD-301 IN ISPWC-2015)



* 6" FOR PIPE 30" DIAMETER OR LARGER.

TYPICAL PIPE BEDDING SECTION

BEDDING SYSTEM	BEDDING MATERIAL	
	LOWER BEDDING ZONE	UPPER BEDDING ZONE
CLASS A-1	TYPE I	TYPE I
CLASS A-2	TYPE I	TYPE I OR TYPE III
CLASS B-1	TYPE II	TYPE II
CLASS B-2	TYPE III	TYPE III
CLASS C-1 (CONCRETE CAP)	TYPE I	TYPE IV
CLASS C-2 (CONCRETE CRADLE)	TYPE IV	TYPE I
CLASS C-3 (CONCRETE ENCASEMENT)	TYPE IV	TYPE IV

NOTE

A. REFER TO SECTION-305 FOR MATERIAL AND COMPACTION REQUIREMENTS.

2015

IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION	TYPICAL PIPE BEDDING SECTION	STANDARD DRAWING NO. SD-302

DETAIL-B
PIPE BEDDING DETAIL
(SEE DETAIL SD-302 IN ISPWC-2015)

STATE OF UTAH
PROFESSIONAL ENGINEER
No. 7544732
RYAN KITCHEN
12-12-19

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1				8			
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C-102

SHEET 6 OF 31