BP4 - IHS HOSPITAL PUMP HOUSE

IHS REVIEW AND APPROVAL

REVIEWED BY	DATE
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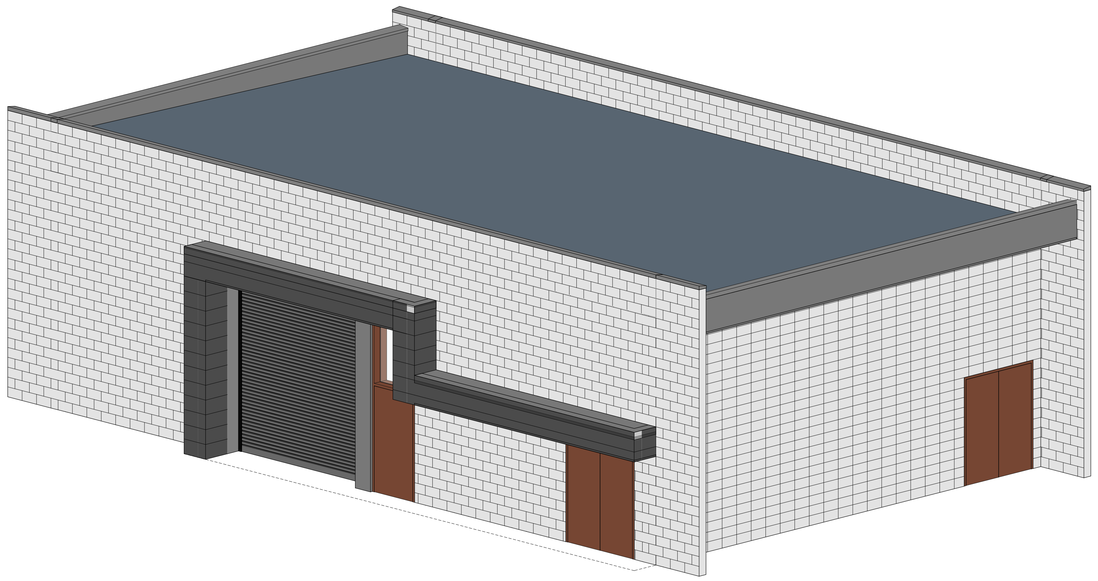

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VOLUME I OF I

ISSUED FOR:
FINAL CONSTRUCTION DOCUMENTS

ISSUE DATE:
03/05/2026

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Plot Date: 2/26/2026 2:58:12 PM

PROJECT SHEET INDEX

Current Revision	Current Revision Date	SHEET NUMBER	SHEET NAME
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		G2.1.1 PH	BUILDING CODE SUMMARY
		G2.2.1 PH	PUMPHOUSE LIFE SAFETY AND CONTROL AREA PLAN
Structural			
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		S1.0.1	GENERAL STRUCTURAL NOTES
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		S2.1.2	ELEVATION AND SECTION VIEWS
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PROJECT SUSTAINABILITY STATEMENT

THIS PROJECT IS REGISTERED UNDER THE LEED ® GREEN BUILDING PROGRAM ADMINISTERED BY THE GREEN BUILDING CERTIFICATION INSTITUTE (GBCI). THE PROJECT MANUAL SECTION TITLED "SUSTAINABLE DESIGN REQUIREMENTS" OUTLINES THE SPECIFIC CRITERIA TO BE ACHIEVED IN THIS PROJECT TO OBTAIN LEED [insert certification level here] CERTIFICATION BASED ON GBCI's "insert LEED version and program here]"

SmithGroup is a member in good standing of the USGBC

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PROJECT GENERAL NOTES

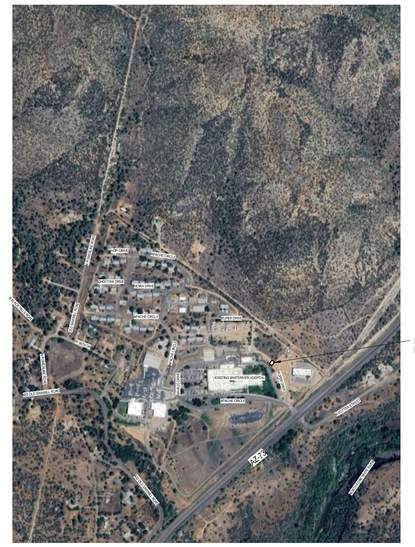
THE FOLLOWING PROJECT GENERAL NOTES APPLY TO THE ENTIRE DRAWING SET AND ARE NOT SPECIFIC TO ANY ONE DISCIPLINE, UNLESS OTHERWISE NOTED:

1. THE DRAWING SET AND SPECIFICATIONS (PROJECT MANUAL) ARE COMPLEMENTARY AND ESTABLISH DETAILED MINIMUM REQUIREMENTS FOR THE DESIGN AND CONSTRUCTION OF THE PROJECT.
2. THE DRAWING SET CONSISTS OF ALL SHEETS LISTED BY THE SHEET INDEX. THE WORK DESCRIBED BY THE DRAWINGS OF ANY ONE DISCIPLINE MAY BE AFFECTED BY THE WORK DESCRIBED ON DRAWINGS OF ANOTHER DISCIPLINE AND MAY REQUIRE REFERENCE TO DRAWINGS OF ANOTHER DISCIPLINE. AS SUCH, DO NOT DISTRIBUTE OR UTILIZE PARTIAL SETS OF DRAWINGS.
3. COLUMN GRID LINES IDENTIFIED BY A LETTER DESIGNATION ARE PARALLEL, UNLESS OTHERWISE NOTED. COLUMN GRID LINES IDENTIFIED BY A NUMBER DESIGNATION ARE PARALLEL AND ARE PERPENDICULAR TO THOSE WITH LETTER DESIGNATIONS, UNLESS OTHERWISE NOTED.
4. DISCIPLINE GENERAL NOTES, SYMBOLS AND DEFINITIONS APPLICABLE TO EACH DISCIPLINE'S DRAWINGS MAY BE FOUND AT THE FRONT OF EACH DISCIPLINE'S PORTION OF THE DRAWING SET AND ARE LISTED IN THE SHEET INDEX.
5. UNLESS INDICATED OTHERWISE, THE 'ARCHITECTURAL' SERIES DRAWINGS TAKE PRECEDENCE FOR THE FINISHED APPEARANCE AND LOCATION OF ALL EXPOSED ELEMENTS OF THE WORK OF ALL TRADES, INCLUDING THAT WORK WHICH IS ILLUSTRATED PRIMARILY ON DRAWINGS OF OTHER DISCIPLINES.
6. THE DRAWINGS MAY MAKE REFERENCE TO OR ILLUSTRATE ITEMS WHICH ARE NOT PART OF THE WORK OF THE CONTRACT. THESE "NOT IN CONTRACT" ITEMS AS INDICATED ARE REFERENCED OR ILLUSTRATED FOR THE CONTRACTOR'S REFERENCE, INFORMATION AND COORDINATION ONLY.
7. EXISTING CONDITIONS, IF SHOWN, ARE FROM AVAILABLE RECORD DRAWINGS AND/OR VISUAL FIELD SURVEYS. VERIFY ACTUAL EXISTING CONDITIONS AT THE SITE PRIOR TO SUBMITTING A BID. NOTIFY THE ARCHITECT, IN WRITING AND PRIOR TO SUBMITTING A BID, OF ANY DISCREPANCIES.
8. TAKE PRECAUTIONS TO MAINTAIN AND PROTECT NEW WORK AS WELL AS EXISTING SYSTEMS AND ELEMENTS, IF ANY, WHICH ARE TO REMAIN OR BE SALVAGED. ANY DAMAGE TO SUCH SYSTEMS AND ELEMENTS SHALL BE IMMEDIATELY REPAIRED IN A MANNER ACCEPTABLE TO THE ARCHITECT. IF SATISFACTORY REPAIRS CANNOT BE MADE, REPLACE SYSTEMS AND ELEMENTS WITH "LIKE NEW" QUALITY ACCEPTABLE TO THE ARCHITECT, ALL AT NO ADDITIONAL COST.
9. ALL PARTS OF THE WORK, INCLUDING BUT NOT LIMITED TO MATERIALS, METHODS, OR ASSEMBLIES, MUST COMPLY WITH THE REQUIREMENTS OF THE GOVERNING CODES AND REGULATIONS OF ALL FEDERAL, STATE AND LOCAL AUTHORITIES HAVING JURISDICTION OVER THE PROJECT, AS WELL AS THOSE GREATER REQUIREMENTS INDICATED BY THE CONTRACT DOCUMENTS. NO PART OF THE CONTRACT DOCUMENTS MAY BE CONSTRUED TO REQUIRE OR ALLOW WORK CONTRARY TO A GOVERNING CODE OR REGULATION.
10. IDENTIFY AND NOTIFY THE ARCHITECT OF CONFLICTS BETWEEN THE WORK OF DIFFERENT PARTIES AT THE EARLIEST POSSIBLE DATE SO AS TO ALLOW REASONABLE AND ADEQUATE TIME FOR THE CONFLICT TO BE RESOLVED WITHOUT DELAYING THE WORK. ALL DEVIATIONS FROM THE CONTRACT DOCUMENTS MUST BE APPROVED IN ADVANCE BY THE ARCHITECT AND OWNER.

PROJECT DESCRIPTION

PUMP HOUSE FOR THE WHITERIVER HOSPITAL

VICINITY MAP


PROPOSED PROJECT LOCATION
EXISTING WHITERIVER HOSPITAL
PUMP HOUSE
TUNNEL ENTRY
TUNNEL EXIT
TUNNEL
PUMPHOUSE
ADMIN BLDG
DIALYSIS BLDG
ER
OPTOMETRY
DENTAL
PHARMACY
LAB
X-RAY
PUMP HOUSE
EXISTING WHITERIVER HOSPITAL
PUMP HOUSE
TUNNEL EXIT
TUNNEL ENTRY
TUNNEL
TUNNEL
TUNNEL

PROJECT CODE SUMMARY

BUILDING CLASSIFICATION:

OCCUPANCY CLASSIFICATION AND CONSTRUCTION TYPES PER IBC CHAPTERS 3, 4, 5, AND 6, NFPA 101 CHAPTERS 6, 40, AND 42

BASIC OCCUPANCY GROUP(S) : *[PER IBC CHAPTER 3, NFPA 101 CHAPTER 6]*

○ GROUP A-1 ○ GROUP A-2/ASSEMBLY ○ GROUP A-3/ASSEMBLY
○ GROUP A-4 ○ GROUP A-5 ○ GROUP B/BUSINESS
○ GROUP E ● GROUP F-1/INDUSTRIAL ○ GROUP F-2
○ GROUP H-1 ○ GROUP H-2 ○ GROUP H-3
○ GROUP H-4 ○ GROUP H-5 ○ GROUP I-1
○ GROUP I-2/HEALTH CARE ○ GROUP I-3 ○ GROUP I-4
○ GROUP M ○ GROUP R-1 ○ GROUP R-2
○ GROUP R-3 ○ GROUP R-4 ○ GROUP S-1
● GROUP S-2/STORAGE ○ GROUP U

MIXED USE AND OCCUPANCY : *[PER IBC SECTION 508 & 509, NFPA 101 SECTION 6.1.14]*

○ ACCESSORY OCCUPANCIES *[IBC 508.2]*
[Accessory Occupancies <10% of Story]
○ INCIDENTAL USES *[IBC SECTION 509, NFPA 101 Section 6.1.14.1.3]*
● NONSEPARATED OCCUPANCIES* *[IBC 508.3, NFPA 101 Section 6.1.14.2.2]*
○ SEPARATED OCCUPANCIES *[IBC 508.4, NFPA 101 Section 6.1.14.4]*
*REFER TO FIRE AND LIFE SAFETY PLANS FOR SEPARATION REQUIREMENTS

TYPE(S) OF CONSTRUCTION : *[PER IBC CHAPTER 6*

TYPE I : ○ A ○ B
TYPE II : ○ A ● B TYPE II (000)
TYPE III : ○ A ○ B
TYPE IV : ○ HT
TYPE V : ○ A ○ B

SPECIAL DETAILED REQUIREMENTS :

○ HIGH-RISE BUILDING *[PER IBC SECTION 403]*
○ ATRIUM *[PER IBC SECTION 404]*
○ OPEN PARKING GARAGE *[PER IBC SECTION 406.5]*
○ GROUP I-2: *[PER IBC SECTION 407, NFPA 101 CHAPTER 18]*
- SMOKE COMPARTMENTS
- REFUGE AREA
● HAZARDOUS MATERIALS: *[PER IBC SECTION 414 AND NFPA 400]*
- CONTROL AREAS
○ MEZZANINE *[PER IBC SECTION 505]*
○ EQUIPMENT PLATFORM *[PER IBC SECTION 505]*

DESIGN INCLUDES NONSEPARATED GROUP F-1 AND GROUP S-2 OCCUPANCIES.

BUILDING AREA CALCULATIONS:

PER IBC CHAPTER 5

○ UNLIMITED AREA ALLOWED *(PER IBC TABLE 506.2)*
○ UNLIMITED HEIGHT ALLOWED *PER IBC TABLES 504.3 AND 504.4)*

○ AUTOMATIC SPRINKLER SYSTEM INCREASE USED FOR ALLOWABLE HEIGHT MODIFICATION *(PER IBC TABLES 504.3 AND 504.4)*

● NO ALLOWABLE HEIGHT OR AREA MODIFICATIONS USED

ALLOWABLE AREA MODIFICATIONS USED PER THE ALLOWABLE AREA CALCULATIONS ON THIS SHEET:

AUTOMATIC SPRINKLER SYSTEM INCREASE *(PER IBC TABLE 506.2)*
FRONTAGE INCREASE *(PER IBC EQUATION 5-3)*

MINIMUM FIRE-RESISTANCE REQUIREMENTS:

FIRE-RESISTIVE RATING REQUIREMENTS FOR BUILDING ELEMENTS : *[PER IBC TABLE 601]*

TYPE OF CONSTRUCTION: *IIB* TYPE II (000)

PRIMARY STRUCTURAL FRAME : *0 HOURS*
BEARING WALLS (EXT) : *0 HOURS*
BEARING WALLS (INTR) : *0 HOURS*
NON-BRG WALLS AND PARTITIONS (EXT) *0 HOURS*
PER IBC TABLE 601:
NON-BRG WALLS AND PARTITIONS (INTR) : *0 HOURS*
FLOOR CONSTR AND SECONDARY MEMBERS : *0 HOURS*
ROOF CONSTR AND SECONDARY MEMBERS : *0 HOURS*

FIRE-RESISTANCE RATING FOR EXTERIOR WALLS BASED ON FIRE SEPARATION DISTANCE [X] : *[PER IBC TABLE 705.5]*

CONSTRUCTION TYPE / OCCUPANCY	*IIB / F-1*	*IIB / S-2*
X < 5 FT	*2 HOURS*	*1 HOURS*
5 FT ≤ X < 10 FT	*1 HOURS*	*1 HOURS*
10 FT ≤ X < 30 FT	*0 HOURS*	*0 HOURS*
X ≥30 FT	*0 HOURS*	*0 HOURS*

MAXIMUM AREA OF EXTERIOR WALL OPENINGS BASED ON FIRE SEPARATION DISTANCE: *[PER IBC TABLE 705.9]*

FIRE SEPARATION DISTANCE	DEGREE OF PROTECTION (UP, NS)	(UP, S)	(P)
0 < 3 FT	NP	NP	NP
3 < 5 FT	NP	15%	15%
5 < 10 FT	10%	25%	25%
10 < 15 FT	15%	45%	45%
15 < 20 FT	25%	75%	75%
20 < 25 FT	45%	NL	NL
25 < 30 FT	70%	NL	NL
30 FT >	NL	NR	NR

THE FIRE SEPARATION DISTANCE IS GREATER THAN 30 FEET. DESIGN DOES NOT REQUIRE OR PROVIDE EXTERIOR WALL RATINGS.

FIRE DOOR AND FIRE SHUTTER FIRE PROTECTION RATINGS (hours): *[PER IBC TABLE 716.1(2), NFPA 101, TABLE 8.3.4.2]*

TYPE OF ASSEMBLY	REQ'D ASSEMBLY RATING	MIN. FIRE DOOR AND FIRE SHUTTER ASSEMBLY RATING
Fire walls and fire barriers having a required fire-resistance rating greater than 1 hour	4 3 2 1 1/2	3 3 1 1/2 1 1/2
Fire barriers having a required fire-resistance rating of 1 hour Shaft, exit enclosure and exit passageway walls: Other fire barriers:	1 1	1 3/4
Fire partitions Corridor walls: Other fire partitions:	1 0.5 1 0.5	1/3 1/3 3/4 1/3
Exterior Walls	3 2 1 1	1 1/2 1 1/2 3/4 1
Smoke Barriers	1	1/3

MEANS OF EGRESS:

*REFER TO THE LIFE SAFETY PLANS FOR ACTUAL MEASURED DISTANCES.

DOORS :

[PER IBC 1010.1.1, NFPA 101 Section 7.2.1.2.3.2]
THE MINIMUM CLEAR WIDTH AND HEIGHT OF A DOOR SHALL NOT BE LESS THAN 32 INCHES AND 80 INCHES RESPECTIVELY.

[PER IBC 1010.1.2.1, NFPA 101 Section 7.2.1.4.2]
DOORS SHALL SWING IN THE DIRECTION OF EGRESS TRAVEL, WHERE SERVING AN OCCUPANT LOAD OF 50 OR MORE PERSONS OR A GROUP H OCCUPANCY.

COMMON PATH OF EGRESS TRAVEL (IBC TABLE 1006.2.1, NFPA 101 Table A.7.6)

OCCUPANCY	SPRINKLERED	MAX. DISTANCE
F-1/INDUSTRIAL	YES	100' - 0"
S-2/STORAGE	YES	100' - 0"

EXIT ACCESS TRAVEL DISTANCE (IBC TABLE 1017.2, NFPA 101 Table A.7.6)

OCCUPANCY	SPRINKLERED	MAX. DISTANCE
F-1/INDUSTRIAL	YES	250'-0"
S-2/STORAGE	YES	400'-0"

DEAD ENDS (IBC 1020.5, NFPA 101 Table A.7.6)

OCCUPANCY	SPRINKLERED	MAX. DISTANCE
F-1/INDUSTRIAL	YES	50'-0"
S-2/STORAGE	YES	50'-0"

EXIT CAPACITY FACTORS:

[PER IBC 1005.3, NFPA 101 Table 7.3.3.1]

MINIMUM REQUIRED EGRESS WIDTH :
STAIRWAYS *0.3*
OTHER EGRESS COMPONENTS *0.2*

● SPRINKLERED
○ EMERGENCY VOICE/ALARM COMMUNICATION SYSTEM

*REFER TO THE LIFE SAFETY PLANS FOR COMPLIANCE WITH MEANS OF EGRESS WIDTH REQUIREMENTS.

LIFE SAFETY SYSTEMS:

(PER IBC AND IFC CHAPTER 9)

AUTOMATIC SPRINKLER SYSTEM : ● PROVIDED PER NFPA 13
ALTERNATIVE AUTOMATIC FIRE-EXTINGUISHING SYSTEMS : ○ PROVIDED - REFER TO FIRE PROTECTION DRAWINGS
STANDPIPE SYSTEM : ○ PROVIDED PER NFPA 14
PORTABLE FIRE EXTINGUISHERS : ● PROVIDED PER NFPA 10
FIRE ALARM SYSTEM : ● PROVIDED PER NFPA 72

MIN. NUMBER OF EXITS FOR OCCUPANT LOAD (IBC TABLE 1006.3.3 / NFPA 101 SECTION 7.4.1.2)

OCCUPANT LOAD	MIN. # OF EXITS PER STORY
1-500	2
501-1,000	3
MORE THAN 1,000	4

ROOMS, AREAS, AND SPACES COMPLYING WITH THE COMMON PATH OF TRAVEL DISTANCE IN TABLE 1006.2.1 WITH EXITS DISCHARGING DIRECTLY TO THE EXTERIOR AT THE LEVEL OF EXIT DISCHARGE ARE PERMITTED TO HAVE ONE EXIT OR ACCESS TO A SINGLE EXIT PER IBC 1006.3.4 AND BASED ON OCCUPANCY CLASSIFICATION PER NFPA 101, 7.4.1.1(1).

CODES / STANDARDS

APPLICABLE CODES/CRITERIA/DESIGN POLICY:

AUTHORITY HAVING JURISDICTION:
U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES
INDIAN HEALTH SERVICE

REFER TO BUILDING PACKAGE 1 DRAWINGS FOR APPLICABLE CODES AND STANDARDS.

CODE COMPLIANCE APPROACH NARRATIVE

THE PROPOSED BUILDING IS A WASTEWATER TREATMENT PLANT TO SUPPORT THE WHITERIVER HOSPITAL CAMPUS. REFER TO SHEET G1.1 FOR GENERAL PROJECT INFORMATION.

CODE-REQUIRED SIGNAGE

REFER TO ARCHITECTURAL AND SIGNAGE DRAWINGS FOR DETAILS OF THE CODE-REQUIRED SIGNAGE INDICATED BELOW.

ACCESSIBLE SIGNAGE
DESIGN INCLUDES SIGNAGE WITH RAISED CHARACTERS BRAILLE, AND VISUAL CHARACTERS THAT COMPLY WITH *ICC A117.1*, AS REQUIRED BY *NFPA 101 7.10.1.3. AND IBC 1009.9* FOR THE FOLLOWING CODE-REQUIRED SIGNAGE TYPES:
- TACTILE EXIT SIGNAGE
- DIRECTIONAL SIGNAGE

TACTILE EXIT SIGNAGE
DESIGN INCLUDES TACTILE EXIT SIGNS INDICATING "EXIT" WITH RAISED VISUAL CHARACTERS AND BRAILLE THAT COMPLY WITH *ICC A117.1*, AS REQUIRED BY *NFPA 101 7.10.1.3.* AND 1013.4, AT THE FOLLOWING LOCATIONS:
- EACH EXIT DISCHARGE DOOR.
- EACH DOOR TO EXTERIOR AREAS FOR ASSISTED RESCUE.

DIRECTIONAL SIGNAGE
DESIGN INCLUDES DIRECTIONAL SIGNAGE INDICATING LOCATION OF OTHER MEANS OF EGRESS AND ACCESSIBLE MEANS OF EGRESS, PER *IBC 1009.10*. DESIGN INCLUDES THESE SIGNS AT:
- EACH EXIT WHICH IS NOT AN ACCESSIBLE EGRESS PATH

GRAPHIC LEGEND

PROJECT CODE SUMMARY SYMBOLS

○ ITEM NOT SELECTED
● ITEM SELECTED

GENERAL FIRE AND LIFE SAFETY SHEET NOTES

A. THE PURPOSE OF THE FIRE AND LIFE SAFETY DRAWINGS IS TO ILLUSTRATE IN SCHEMATIC FASHION, THE APPLICABLE EXITING, FIRE-RESISTANCE, AND LIFE SAFETY CONCEPTS UTILIZED BY THIS PROJECT, INCLUDING, BUT NOT LIMITED TO:
- OCCUPANCY CLASSIFICATIONS
- OCCUPANCY LOAD FACTORS
- EXIT LOCATIONS, EXIT PATHS & CAPACITY - FUNCTION OF SPACE
- FIRE-RESISTANCE RATED CONSTRUCTION
- AND OTHER STRATEGIES RELATED TO THE CODE COMPLIANCE APPROACH OF THIS PROJECT.

B. ADDITIONAL DETAILED REQUIREMENTS APPLY TO THE CONSTRUCTION OF PARTITIONS, FIRE RATED DOOR ASSEMBLIES, INTERIOR GLAZED OPENINGS, DUCTS, SMOKE AND FIRE DAMPERS AND THROUGH PENETRATION FIRE STOPPING. REFER TO THE DRAWINGS OF EACH DISCIPLINE AND THE SPECIFICATIONS FOR THESE REQUIREMENTS.

C. ADDITIONAL DETAILED REQUIREMENTS SHOWN ELSEWHERE MAY REQUIRE CONSTRUCTION HAVING GREATER FIRE RATINGS, MORE EXTENSIVE FIRE-RATED CONSTRUCTION,OR MORE COMPLEX ASSEMBLIES THAN INDICATED BY THE DIAGRAMS ON THIS SHEET. WHEN PROVIDED, THE ADDITIONAL DETAILED REQUIREMENTS SHALL GOVERN.

D. FIRE BARRIERS SHALL EXTEND FROM THE TOP OF THE FOUNDATION OR FLOOR/CEILING ASSEMBLY BELOW TO THE UNDERSIDE OF THE FLOOR OR ROOF SHEATHING, SLAB OR DECK ABOVE AND SHALL BE SECURELY ATTACHED THERETO. SUCH FIRE BARRIERS SHALL BE CONTINUOUS THROUGH CONCEALED SPACES.

PROJECT FIRE AND LIFE SAFETY SHEET NOTES

A. INTERIOR WALL & CEILING FINISHES SHALL HAVE A FLAME SPREAD INDEX RATING OF CLASS B AT VERTICAL EXITS & EXIT PASSAGEWAYS AND EXIT ACCESS CORRIDORS AND OTHER EXITWAYS.

B. INTERIOR WALL & CEILING FINISHES SHALL HAVE A FLAME SPREAD INDEX RATING OF NO MORE THAN CLASS C AT ROOMS AND ENCLOSED SPACES.

C. ALL MATERIALS EXPOSED WITHIN DUCTS OR PLENUMS SHALL HAVE A FLAME SPREAD RATING INDEX NOT MORE THAN 25 AND A SMOKE DEVELOPED RATING OF NOT MORE THAN 50.

D. FIRE EXTINGUISHERS SHALL BE LOCATED SUCH THAT A MAXIMUM TRAVEL DISTANCE OF 75' OR THE NFPA 10 TRAVEL DISTANCE LIMIT BASED ON THE PROTECTED HAZARD, WHICHEVER IS SHORTER, SHALL NOT BE EXCEEDED.

E. LEVEL/AREA MAIN OCCUPANCY EXIT SIGN LOCATIONS MAY NOT BE SHOWN. REFERENCE ELECTRICAL SHEETS FOR ALL EXIT SIGN LOCATIONS.

F. FIRE RESISITIVE ASSEMBLY DETAILS, IF APPLICABLE, ARE LOCATED ELSEWHERE IN THIS DRAWING SET PER THE SHEET INDEX.

BUILDING HEIGHT AND AREA CALCULATION

ALLOWABLE HEIGHT AND AREA DETERMINATION METHOD
HEIGHT AND AREA ARE BASED ON THE MOST RESTRICTIVE REQUIREMENTS OF THE PRIMARY OCCUPANCIES.

ALLOWABLE AREA PER FLOOR SHALL BE CALCULATED AS:

$A_a = [A_t + (NS*I_f)]$

A_a ALLOWABLE AREA PER FLOOR
A_t TABULAR ALLOWABLE AREA IN ACCORDANCE WITH TABLE 506.2
NS TABULAR ALLOWABLE AREA FOR NON-SPRINKLERED BUILDING
I_f AREA FACTOR INCREASE FOR FRONTAGE

HEIGHT AND AREA INCREASES FOR SPRINKLERS
DESIGN DOES NOT UTILIZE THE AREA OR HEIGHT NCREASE FOR SPRINKLERS. THE VALUES SHOWN FOR BUILDING AREA, HEIGHT, AND NUMBER OF STORIES ARE FOR AN UNSPRINKLERED BUILDING.

AREA INCREASES FOR FRONTAGE
DESIGN DOES NOT REQUIRE OR UTILIZE THE FRONTAGE INCREASE.

BUILDING HEIGHT AND AREA *[IBC TABLES 504.3, 504.4 & 506.2]*

	BUILDING HEIGHT *FEET/STORIES*		BUILDING AREA PER FLOOR *SQUARE FEET*			BUILDING TOTAL AREA *SQUARE FEET*	
OCCUPANCY	ALLOWABLE	ACTUAL	NS	W/ FRONTAGE	ACTUAL	ALLOWABLE	ACTUAL
F-1 S-2	55 / 2 55 / 3	17'-6" / 1	15,500 26,000	N/A	1,828	15,500	1,828

FIRE PROTECTION AND LIFE SAFETY SYSTEMS

FIRE ALARM SYSTEM
DESIGN INCLUDES AN ADDRESSABLE FIRE ALARM SYSTEM. THE SYSTEM IS DESIGNED IN ACCORDANCE WITH IBC 907 AND NFPA 72.

FIRE SUPPRESSION
AN AUTOMATIC WET-PIPE SPRINKLER SYSTEM SHALL BE PROVIDED THROUGHOUT THE BUILDING. THE SPRINKLER SYSTEM SHALL BE MONITORED BY THE BUILDING FIRE ALARM SYSTEM. THE SYSTEM SHALL BE DESIGNED, INSTALLED, AND TESTED IN ACCORDANCE WITH IBC 903 AND NFPA 13.

NOTE
SYSTEMS ARE NOTED ABOVE FOR REFERENCE. REFER TO THE RESPECTIVE SYSTEM DRAWINGS AND SPECIFICATIONS FOR REQUIREMENTS.

PORTABLE FIRE EXTINGUISHERS

DESIGN INCLUDES CABINETS AND WALL BRACKETS FOR PO RTABLE FIRE EXTINGUISHERS LOCATED AS REQUIRED BY *IBC 906*. DESIGN LOCATES EXTINGUISHERS ALONG NORMAL PATHS OF TRAVEL THAT ARE NOT OBSTRUCTED OR OBSCURED FROM VIEW. DESIGN INCLUDES CABINETS LISTED FOR USE IN RATED CONSTRUCTION WHEN INSTALLED IN FIRE-RESISTANCE RATED WALLS.

REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF FIRE EXTINGUISHERS AND FIRE EXTINGUISHER CABINETS.

REFER TO THE TABLES BELOW FOR MINIMUM EXTINGUISHER SIZES, MAXIMUM FLOOR AREAS, AND MAXIMUM TRAVEL DISTANCES.

SIZE AND DISTRIBUTION - CLASS A FIRE HAZARDS *(NFPA 10 TABLE 6.2.1.1, IBC TABLE 906.3(1))*

HAZARD OCCUPANCY	LIGHT (LOW)	ORDINARY (MODERATE)	EXTRA (HIGH)
MINIMUM SINGLE EXTINGUISHER RATING	2-A	2-A	4-A
MAXIMUM FLOOR AREA PER UNIT OF A	3,000 SF	1,500 SF	1,000 SF
MAXIMUM FLOOR AREA PER EXTINGUISHER	11,250 SF	11,250 SF	11,250 SF
MAXIMUM TRAVEL DISTANCE TO EXTINGUISHER [2]	75 FT	75 FT	75 FT

SIZE AND DISTRIBUTION - CLASS B FIRE HAZARDS [1] *(NFPA 10 TABLE 6.3.1.1, IBC TABLE 906.3(2))*

HAZARD OCCUPANCY	LIGHT (LOW) < 1 GAL		ORDINARY (MODERATE) 1-5 GAL		EXTRA (HIGH) > 5 GAL	
MINIMUM EXTINGUISHER RATING	5-B	10-B	10-B	20-B	40-B	80-B
MAXIMUM TRAVEL DISTANCE TO EXTINGUISHER [2]	30 FT	50 FT	30 FT	50 FT	30 FT	50 FT

[1] EXTINGUISHER REQUIREMENTS SHOWN ARE VALID FOR FLAMMABLE AND COMBUSTIBLE LIQUIDS WITH A DEPTH OF 0.25 INCHES OR LESS.
[2] TRAVEL DISTANCE TO FIRE EXTINGUISHERS SHALL BE MEASURED ALONG NORMAL PATHS OF TRAVEL.

INTERIOR FINISHES

DESIGN INCLUDES INTERIOR FINISHES THAT COMPLY WITH *IBC CHAPTER 8* AND THE MINIMUM CLASSIFICATIONS NOTED BELOW. MATERIALS EXPOSED WITHIN DUCTS OR PLENUMS ARE LIMITED TO A FLAME SPREAD RATING INDEX OF ≤25 AND A SMOKE DEVELOPED RATING OF ≤50.

DESIGN INCLUDES A FULLY-SPRINKLERED BUILDING. CLASS II MATERIALS ARE THEREFORE PERMITTED IN ANY AREA WHERE CLASS I MATERIALS ARE REQUIRED AND MATERIALS COMPLYING WITH DOC FF-1 "PILL TEST" OR WITH ASTM D2859 ARE PERMITTED IN ANY AREA WHERE CLASS II MATERIALS ARE REQUIRED. TABLE BELOW REFLECTS VALUES FOR A FULLY-SPRINKLERED BUILDING.

OCCUPANCY	FLOORS	INTERIOR EXIT ENCLOSURES	CORRIDORS AND EXIT ACCESS ENCLOSURES	ROOMS AND ENCLOSED SPACES
F-1	II	CLASS C	CLASS C	CLASS C
S-2	II	CLASS C	CLASS C	CLASS C

INDIAN HEALTH SERVICE · IHS · 1955 · DEPARTMENT OF HEALTH & HUMAN SERVICES · USA

IHS Whiteriver Hospital

200 W Hospital Drive
Whiteriver, Arizona, 85941

IHS Project #: 131445
IHS Contract #: 75H70123R00008
IHS Award Date: 02/02/2024

BUILDING PACKAGE 4 (BP4)
IHS HOSPITAL PUMP HOUSE

BASED ON PROGRAM OF REQUIREMENTS DATED [**03/26/22**], POR AMENDMENT DATED [**02/03/25**], AND ON SCHEMATIC DRAWINGS APPROVED [**11/19/24**].

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ISSUED FOR	DATE
FINAL CONSTRUCTION DOCUMENTS	23JAN26

SEALS AND SIGNATURES

Registered Professional Engineer (Structural) CERTIFICATE NO. 74163 ANDREW J. OCHSANKEHL 2026-01-23 ARIZONA U.S.A.

BUILDING CODE SUMMARY

Drawn By: NIGAM
Checked By: OCHSANKEHL

14904.00
PROJECT NUMBER

BP4 **G2.1.1 PH**
SHEET NUMBER

Plot Date: 1/15/2026 10:43:08 AM NIGAM

HAZARDOUS MATERIAL APPROACH

A DEDICATED CHLORINE STORAGE AREA WILL BE PROVIDED FOR PURPOSES OF WATER TREATMENT. THE CHLORINE STORAGE AREA WILL COMPLY WITH IBC SECTION 414, IFC CHAPTER 50, AND NFPA 400 CHAPTERS 4-6. SODIUM HYPOCHLORITE (CHLORINE) AND CITRIC ACID WILL BE STORED WITHIN THE CHLORINE STORAGE AREA, AND WILL NOT EXCEED THOSE VALUES FOUND IN IBC TABLES 307.1(1) AND 307.1(2) AND NFPA 400 TABLE 5.2.1.1.3. SODIUM HYPOCHLORITE IS CLASSIFIED AS A CORROSIVE. CITRIC ACID IS NOT CLASSIFIED AS TOXIC, HIGHLY TOXIC, OR CORROSIVE.

THE ENTIRE BUILDING WILL BE CONSIDERED A SINGLE CONTROL AREA CONTAINING CORROSIVES CLASSIFIED AS HIGH-HAZARD CONTENT LEVEL 4 IN ACCORDANCE WITH NFPA 400, 4.2.1.2.4. 100% OF THE MAQ IS ALLOWED PER CONTROL AREA PER IBC TABLE 414.2.2 AND NFPA 400, TABLE 5.2.2.1.

MECHANICAL EXHAUST VENTILATION WILL BE PROVIDED IN ACCORDANCE WITH IBC 414.3. THE ROOM WILL BE PROVIDED WITH AUTOMATIC FIRE SPRINKLERS. APPROPRIATE SIGNAGE WILL BE PROVIDED FOR ALL STORAGE AND USE OF HAZARDOUS MATERIALS. CONTAINERS, CYLINDERS, TANKS, AND OTHER MEANS USED FOR CONTAINMENT OF HAZARDOUS MATERIALS SHALL BE OF AN APPROVED TYPE.

THE ANTICIPATED QUANTITY OF SODIUM HYPOCHLORITE IS 135 GALLONS. THE ANTICIPATED QUANTITY OF CITRIC ACID IS 65 GALLONS.

BUILDING OCCUPANT LOAD

FUNCTION OF SPACE	AREA/OCC	OCC LOAD	AREA
LEVEL 1 - PUMP HOUSE			
ACCESSORY MECHANICAL AND STORAGE AREAS	300 GSF	2	317 SF
INDUSTRIAL USE	100 GSF	16	1511 SF
		18	1828 SF

NOTE: AREAS USED ON LIFE SAFETY DRAWINGS ARE FOR CALCULATION OF OCCUPANT LOADS ONLY. AREAS SHOWN MAY DIFFER FROM GROSS BUILDING AREA.

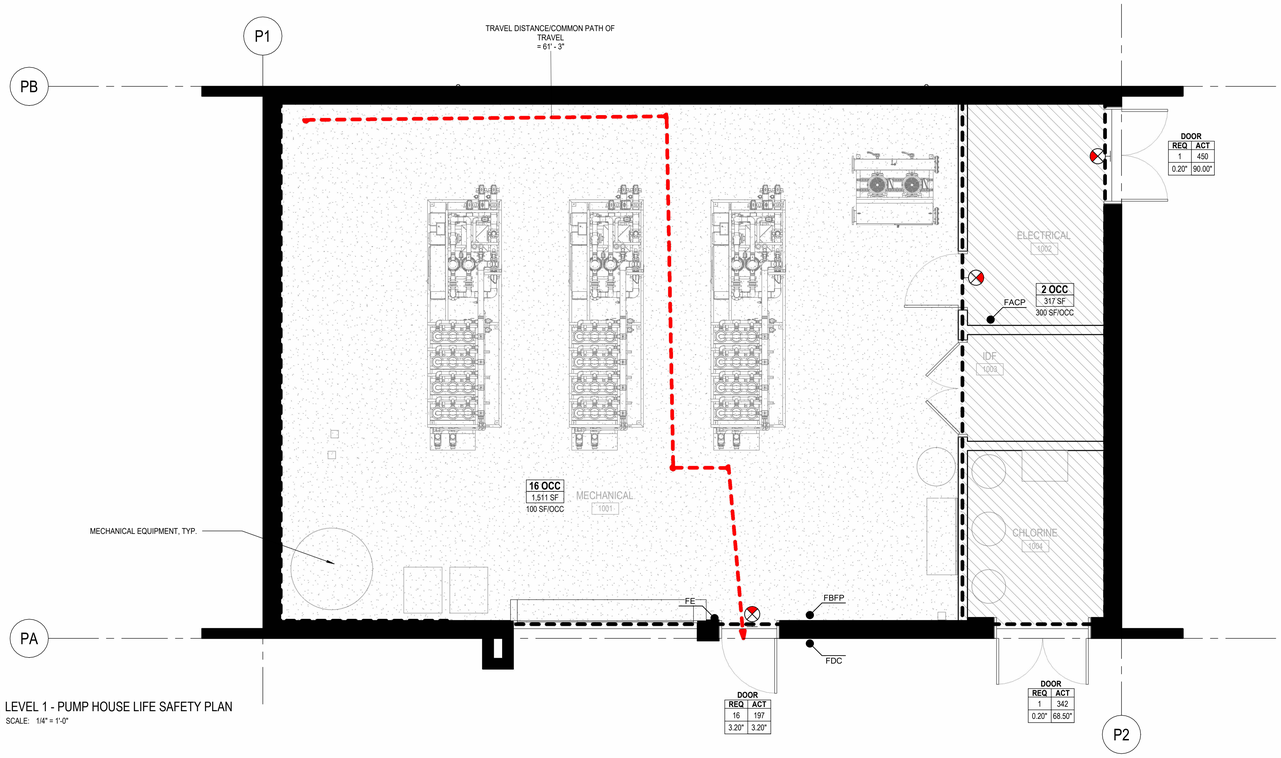
OCCUPANCY CLASSIFICATION	GROSS AREA	% OF FLOOR
LEVEL 1 - PUMP HOUSE		
FACTORY INDUSTRIAL (F-1)	1511 SF	83%
STORAGE (S-2)	317 SF	17%
	1828 SF	100%

NFPA 400 TABLE 5.2.1.1.3 MAXIMUM ALLOWABLE QUANTITY OF HAZARDOUS MATERIALS PER CONTROL AREA			
Level 1	First Story Above Grade		
Max. No. of Control Areas is	4	Fully-Sprinklered?	Yes
Fraction of MAQ Permitted is	100.0%	Storage in Approved Cabinets?	Yes

			Storage			Use in Closed Systems			Use in Open Systems	
Material	Class	High Hazard Protection Level	Solid Pounds / Cubic Feet	Liquid Gallons / Pounds	Gas Cu. Ft. at NTP	Solid Pounds / Cubic Feet	Liquid Gallons / Pounds	Gas Cu. Ft. at NTP	Solid Pounds / Cubic Feet	Liquid Gallons / Pounds
Physical Hazard Materials										
Cryogenic Fluid	Flammable	2	N/A	45	N/A	N/A	45	N/A	N/A	45
	Oxidizing	3	N/A	180	N/A	N/A	180	N/A	N/A	180
Flammable Gas	Gaseous	2	N/A	N/A	4000	N/A	N/A	4000	N/A	N/A
	Liquefied		N/A	N/A	600	N/A	600	N/A	N/A	N/A
	Liquefied Petroleum (LP)		N/A	N/A	300	N/A	300	N/A	N/A	N/A
Ignitable (Flammable or Combustible Liquid)	1A	3	N/A	120	N/A	N/A	N/A	N/A	N/A	N/A
	1B and 1C	3	N/A	480	N/A	N/A	N/A	N/A	N/A	N/A
	Combination (1A, 1B, 1C)	3	N/A	480	N/A	N/A	N/A	N/A	N/A	N/A
	II	3	N/A	480	N/A	N/A	N/A	N/A	N/A	N/A
	IIIA	3	N/A	1320	N/A	N/A	N/A	N/A	N/A	N/A
	IIIB	N/A	N/A	Unlimited	N/A	N/A	N/A	N/A	N/A	N/A
Flammable Solid	N/A	3	500	N/A	N/A	250	N/A	N/A	100	N/A
Organic Peroxide	I	2	64	64	N/A	32	32	N/A	16	16
	IIA	3	400	400	N/A	400	400	N/A	100	100
	IIB	3	1600	1600	N/A	1600	1600	N/A	400	400
	III	3	3360	3360	N/A	3360	3360	N/A	1680	1680
	IV	N/A	Unlimited	Unlimited	N/A	Unlimited	Unlimited	N/A	Unlimited	Unlimited
	V	N/A	Unlimited	Unlimited	N/A	Unlimited	Unlimited	N/A	Unlimited	Unlimited
Oxidizer	4	1	2	2	N/A	0.25	0.25	N/A	0.25	0.25
	3	2 or 3	40	40	N/A	4	4	N/A	4	4
	2	3	1000	1000	N/A	500	500	N/A	100	100
	1	N/A	Unlimited	Unlimited	N/A	Unlimited	Unlimited	N/A	Unlimited	Unlimited
Oxidizing Gas	Gaseous	3	N/A	N/A	6000	N/A	N/A	6000	N/A	
	Liquefied			600	N/A		600	N/A		
Pyrophoric	N/A	2	8	8	N/A	1	1	N/A	NP	NP
Pyrophoric gas	Gaseous	2	N/A	N/A	100	N/A	N/A	100	N/A	N/A
	Liquefied	2	N/A	N/A	8	N/A	N/A	8	N/A	N/A
Unstable (Reactive)	4	1	2	2	N/A	0.25	0.25	N/A	0.25	0.25
	3	1 or 2	20	20	N/A	2	2	N/A	2	2
	2	2	200	200	N/A	100	100	N/A	20	20
	1	N/A	Unlimited	Unlimited	N/A	Unlimited	Unlimited	N/A	Unlimited	Unlimited
Unstable (Reactive) Gas	Gasesous 4 or 3 detonable	1	N/A	N/A	20	N/A	N/A	20	N/A	N/A
	3 non detonable	2	N/A	N/A	200	N/A	N/A	200	N/A	N/A
	2	3	N/A	N/A	3000	N/A	N/A	3000	N/A	N/A
	1	N/A	N/A	N/A	Unlimited	N/A	N/A	Unlimited	N/A	N/A
Unstable (Reactive) Gas	Liquefied 4 or 3 detonable	1	N/A	N/A	2	N/A	N/A	2	N/A	N/A
	3 non detonable	2	N/A	N/A	8	N/A	N/A	8	N/A	N/A
	2	3	N/A	N/A	600	N/A	N/A	600	N/A	N/A
	1	N/A	N/A	N/A	Unlimited	N/A	N/A	Unlimited	N/A	N/A
Water Reactive	3	2	20	20	N/A	10	10	N/A	2	2
	2	3	200	200	N/A	100	100	N/A	20	20
	1	N/A	Unlimited	Unlimited	N/A	Unlimited	Unlimited	N/A	Unlimited	Unlimited
Health Hazard Materials										
Corrosive	N/A	4	20,000	2000		20,000	2000		2,000	200
Corrosive Gas	Gaseous	4	N/A	N/A	3240	N/A	N/A	3240	N/A	N/A
	Liquefied	4	N/A	N/A	600	N/A	N/A	600	N/A	N/A
Highly Toxic	N/A	4	40	40		20	20		6	6
Highly Toxic Gas	Gaseous	4	N/A	N/A	40	N/A	N/A	40	N/A	N/A
	Liquefied	4	N/A	N/A	8	N/A	N/A	8	N/A	N/A
Toxic	N/A	4	2000	2000		1000	1000		250	250
Toxic Gas	Gaseous	4	N/A	N/A	3240	N/A	N/A	3240	N/A	N/A
	Liquefied	4	N/A	N/A	600	N/A	N/A	600	N/A	N/A

NOTES

1. All quantities shown here are based on 2025 NFPA 400, and include applicable increases for sprinkler protection and storage in appropriate containers or cabinets, if presence of sprinklers and use of such containers is indicated at the top of this table.
2. Combustible metals and explosives have been omitted as they are not governed by NFPA 400. No combustible dusts or explosives are anticipated within the building.
3. Inert gases and inert cryogenics have been omitted as they have unlimited quantities in all forms. All quantities shown here are based on 2025 NFPA 400.
4. Underlined values represent the alternate unit.



1 LEVEL 1 - PUMP HOUSE LIFE SAFETY PLAN
SCALE: 1/4" = 1'-0"

GENERAL SHEET NOTES

A. THE PURPOSE OF THE FIRE AND LIFE SAFETY DRAWINGS IS TO ILLUSTRATE IN SCHEMATIC FASHION, THE APPLICABLE EXITING, FIRE-RESISTANCE, AND LIFE SAFETY CONCEPTS UTILIZED BY THIS PROJECT; INCLUDING, BUT NOT LIMITED TO:
- OCCUPANCY CLASSIFICATIONS
- OCCUPANCY LOAD FACTORS AND OCCUPANT LOADS
- EXIT LOCATIONS, EGRESS PATHS, AND EGRESS CAPACITY
- FIRE-RESISTANCE RATED COMPARTMENTATION
- OTHER ELEMENTS RELATED TO THE CODE-COMPLIANCE STRATEGY FOR THIS PROJECT

B. ADDITIONAL DETAILED REQUIREMENTS APPLY TO THE CONSTRUCTION OF ELEMENTS INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING ELEMENTS:
- PARTITIONS AND FIRE-RATED DOOR ASSEMBLIES
- INTERIOR AND EXTERIOR GLAZED OPENINGS
- DUCTS, SMOKE DAMPERS, AND FIRE DAMPERS
- THROUGH-PENETRATION FIRE STOPPING
- FLOORS AND SUPPORTING STRUCTURE

REFER TO THE DRAWINGS OF EACH DISCIPLINE AND THE SPECIFICATIONS FOR THESE REQUIREMENTS.

C. ADDITIONAL DETAILED REQUIREMENTS SHOWN ELSEWHERE MAY REQUIRE MORE EXTENSIVE FIRE-RATED CONSTRUCTION, MORE COMPLEX ASSEMBLIES, OR CONSTRUCTION HAVING GREATER FIRE RESISTANCE THAN INDICATED BY THE DIAGRAMS ON THIS SHEET. WHEN PROVIDED, THE ADDITIONAL DETAILED REQUIREMENTS SHALL GOVERN.

GRAPHIC LEGEND

DEAD ENDS, COMMON PATH, AND EXIT ACCESS TRAVEL DISTANCES

DEAD END CORRIDOR/AISLE
COMMON PATH OF TRAVEL
EXIT ACCESS TRAVEL DISTANCE
PATH ID LENGTH — PATH IDENTIFIER (TYP, ALL TYPES)

OCCUPANT LOAD SYMBOLS

10 OCC — OCCUPANT LOAD
95,000 SF — AREA OF SPACE
XX — OCCUPANT LOAD FACTOR (SF/OCC)

EGRESS CAPACITY SYMBOLS

DOOR
REQ ACT
RCP ACP
RWP AWP
REQUIRED CAPACITY — ACTUAL CAPACITY
CALCULATED CLEAR WIDTH (IN.) — ACTUAL CLEAR WIDTH (IN.)

EXIT SIGN SYMBOLS

EXIT SIGN - WALL/CEILING MOUNTED SHADING INDICATES ILLUMINATED FACE. REFER TO ELECTRICAL DRAWINGS FOR LOCATIONS.

LIFE SAFETY SYMBOLS

FE — FIRE EXTINGUISHER
FDC — FIRE DEPARTMENT CONNECTION
FBFP — FIRE BACKFLOW PREVENTER
FACP — FIRE ALARM CONTROL PANEL

FUNCTION OF SPACE LEGEND

ACCESSORY MECHANICAL AND STORAGE AREAS (300 GSF/PERSON)
INDUSTRIAL USE (100 GSF/PERSON)

EGRESS TRAVEL SUMMARY

LEVEL 1 - PUMP HOUSE	
TRAVEL DISTANCE/COMMON PATH OF TRAVEL	61' - 3"

4' 2' 0' 4' 8'
GRAPHIC SCALE: 1/4" = 1'-0"

INDIAN HEALTH SERVICE · IHS · 1955 · DEPARTMENT OF HEALTH & HUMAN SERVICES, USA

IHS Whiteriver Hospital

200 W Hospital Drive
Whiteriver, Arizona, 85941

IHS Project #: 131445
IHS Contract #: 75H70123R00008
IHS Award Date: 02/02/2024

BUILDING PACKAGE 4 (BP4)
IHS HOSPITAL PUMP HOUSE

BASED ON PROGRAM OF REQUIREMENTS DATED [**03/26/22**], POR AMENDMENT DATED [**02/03/25**], AND ON SCHEMATIC DRAWINGS APPROVED [**11/19/24**].

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ISSUED FOR	DATE
FINAL CONSTRUCTION DOCUMENTS	23JAN26

SEALS AND SIGNATURES

Registered Professional Engineer (Fire) CERTIFICATE NO. 74163 ANDREW J. OCHSANKEHL 2026-01-23 ARIZONA U.S.A.

KEYPLAN

NORTH

PUMPHOUSE LIFE SAFETY AND CONTROL AREA PLAN

Drawn By: NIGAM
Checked By: OCHSANKEHL
14904.00
PROJECT NUMBER

BP4 **G2.2.1 PH**
SHEET NUMBER

Plot Date: 1/15/2026 10:43:21 AM NIGAM