REMODEL FOR:

DPW 22511 ISP NEW DISTRICT #6 FACILITY

1155 FOOTE DRIVE IDAHO FALLS, IDAHO 83402

- REFLECTED CEILING PLAN - REQUIRED

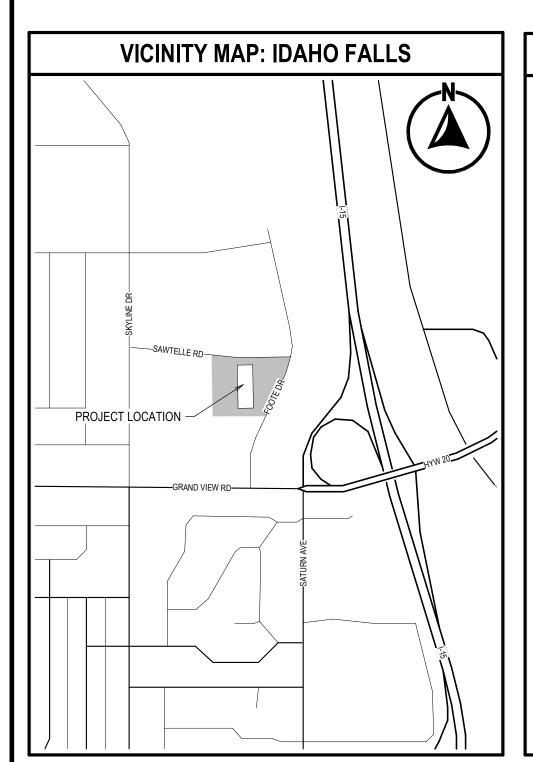
- UNLESS NOTED OTHERWISE

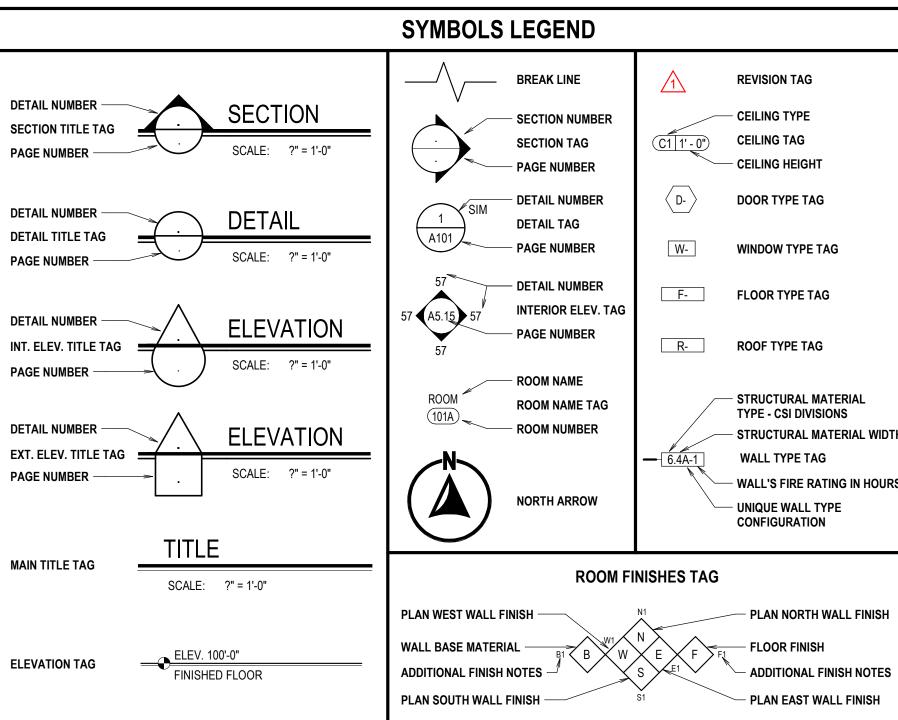
- SIMILAR - SINGLE PLY MEMBRANE - STORAGE

SPM - SINGLE PLY MI STOR. - STORAGE STRUCT. - STRUCTURAL

- TOP OF - TYPICAL

- WITH - WATER CLOSET - WOOD







ABBREVIATIONS			DESI	GN TEAM
# & A.F.F. AL ALUM. B.O.	- NUMBER OR POUND - AND - ABOVE FINISH FLOOR - ALUMINUM - ALUMINUM - BOTTOM OF		OWNER	DPW 502 NORTH 4TH ST. BOISE, IDAHO 83720 PHONE: (208) 332-1900 FAX: (208) 334-4031
CONC. CONT. DEMO. DIA. DN	- BOTTOM OF - CONCRETE MASONRY UNIT - CONCRETE - CONTINUOUS - DEMOLITION OR DEMOLISH - DIAMETER - DOWN		ARCHITECT	NBW ARCHITECTS, P.A. 990 JOHN ADAMS PARKWAY IDAHO FALLS, IDAHO 83401 PHONE: (208) 522-8779 FAX: (208) 522-8785
EA. EIFS ELEC. ELEV. EQ.	- EACH - EXTERIOR INSULATION & FINISHING SYSTEM - ELECTRICAL - ELEVATION - EQUAL		CIVIL ENGINEERS	HORROCKS ENGINEERS 2194 SNAKE RIVER PKWY SUITE 2 IDAHO FALLS, IDAHO 83402 PHONE: (208) 522-1223
EQUIP. EXT. F.F. FRP GA.	- EQUIPMENT - EXTERIOR - FINISH FLOOR - FIBERGLASS REINFORCED PLASTIC - GAUGE		LANDSCAPE ARCHITECT	HORROCKS ENGINEERS 2194 SNAKE RIVER PKWY SUITE 2 IDAHO FALLS, IDAHO 83402 PHONE: (208) 522-1223
GYP. H.M. HR HVAC I.D. I.M.P.	- GYPSUM - HOLLOW METAL - HOUR - HEATING, VENTILATING, & AIR CONDITION - INSIDE DIAMETER - INSULATED METAL PANEL		STRUCTURAL ENGINEERS	G&S STRUCTURAL ENGINEERS 505 LINDSAY BOULEVARD IDAHO FALLS. IDAHO 83402 PHONE: (208) 523-6918 FAX: (208) 523-6922
INSUL. INT. MAX. MECH. MFR	- INSULATION - INTERIOR - MAXIMUM - MECHANICAL - MANUFACTURER		MECHANICAL ENGINEERS	ES2 NOW IMEG 4943 N 29TH E SUITE A IDAHO FALLS, IDAHO 83401 PHONE: (208) 552-9874
MANUF. MIN. N.I.C. NO. O.C.			ELECTRICAL ENGINEERS	MUSGROVE ENGINEERING 645 W. 25TH ST. IDAHO FALLS, IDAHO 83402 PHONE: (208) 523-2862
O.D. PLY PLUM. PVC	- ON CENTER - OUTSIDE DIAMETER - PLYWOOD - PLUMBING - POLYVINYL CHLORIDE		TECHNOLOGY	TLC ENGINEERING SOLUTIONS 255 S ORANGE AVE SUITE 1600 ORLANDO, FLORIDA 32801 PHONE: (407) 841-9050

D ALTERNATES					
	SNOW GUARDS				
	PRE-ENGINEERED FOUNDATION				
	PRE-ENGINEERED BUILDING				
	FIRE ALARM DRAWINGS				
	FIRE SPRINKLER DRAWINGS				

DEFERRED SUBMITTAL CHECKLIST

STRUCTURAL SHORING FOR ROOF

ADD ALTERNATE #001 - ROLLING ASSETS BUILDING PRE-ENGINEERED METAL BUILDING. SEE SHEETS AA00, AA01, AA02, AA03, M1.30, P1.30, F1.20, T301, EE-100.
ADD ALTERNATE #002 - CHIP AND SEAL ASPHALT CHIP AND SEAL ASPHALT FROM FOOTE DRIVE TO SOUTH ACCESS GATE
ADD ALTERNATE #003 - CHIP AND SEAL ASPHALT CHIP AND SEAL ASPHALT FROM SAWTELLE ST INTO THE BACK PARKING LOT AND EXTERIOR STORAGE YARD

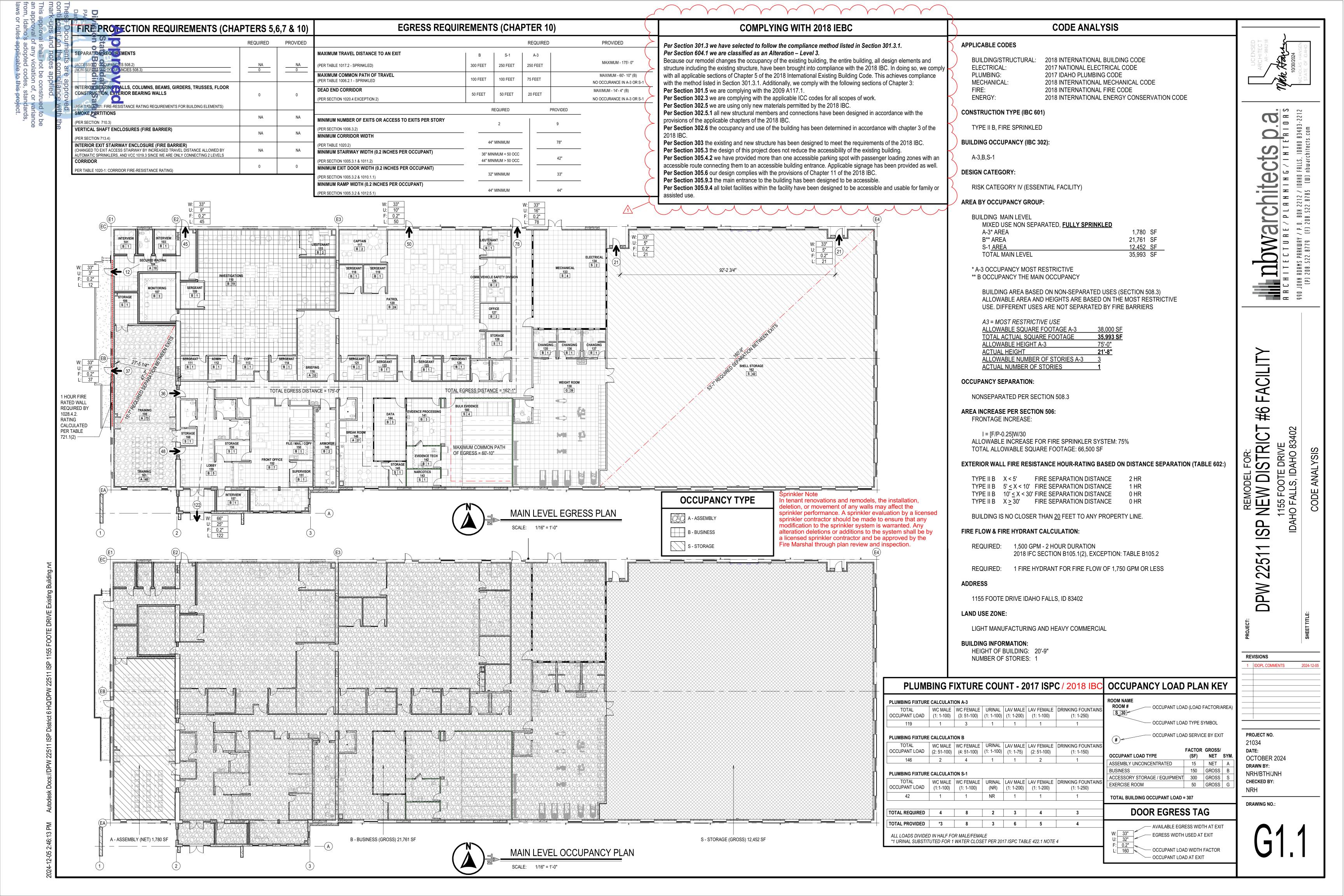
	Thursday, Oct 31, 2024
Agency Construction App	proval
CONSTRUCTION APPROVAL BY	RESPONSIBLE CHIEF OFFICER OF INSTITUTION OR AGENCY
(IDAHO CODE 67-5710)	
Final Plans & Specs have been Reviewed for:	2022511 ISP: Dist 6 Facility
DPW Project No.	2022511
	red program elements within the funding limitations authorized, and authorize the Division of Public ne project. If acceptable bids are received, I will approve awarding a contract and construction of the ans and specifications.
Agency:	ISP
Agency Signature Authority:	Marc French
Approval (Approved)	Marc French (Agency - Signature Authority) Approved
	Sep 26, 2024 09:54 AM MST
Role	Elaine Hill (Project Manager) Approved Sep 26, 2024 10:06 AM MST Approved
Role	Kelly Berard (SR PM) (Project Manager Senior) Approved Oct 18, 2024 05:09 PM MST
Role	Pat Donaldson (DPW Administrator) Approved

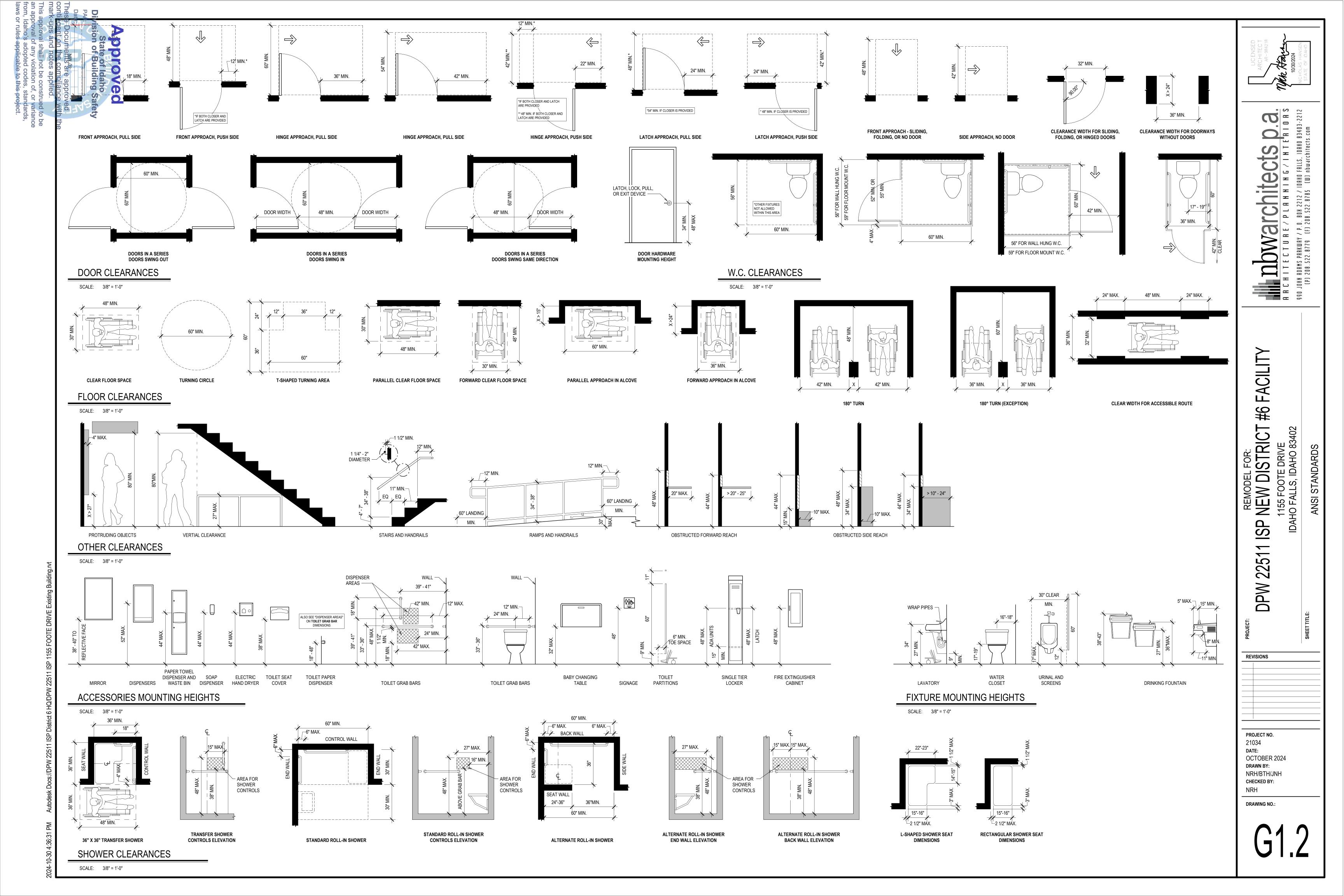
SENERAL	
G1.0	GENERAL INFORMATION
G1.1	CODE ANALYSIS
G1.2	ANSI STANDARDS
CIVIL	loover.
C.1.0 C.1.1	COVER
C.1.1 C.1.2	GENERAL NOTES LEGEND
C.2.0	EXISTING CONDITIONS & DEMO
C.3.0	SITE PLAN
C.3.1	SITE PLAN DETAILS
C.4.0	GRADING PLAN
C.5.0	DRAINAGE & UTILITIES
C.5.1	DRAINAGE & UTILITIES DETAILS
C.6.0 ANDSCAPE	EROSION CONTROL
L.1.0	LANDSCAPE PLAN
L.2.0	LANDSCAPE DETAILS
L.3.0	IRRIGATION PERFORMANCE SPECIFICATIONS
ITE DESIGN	
SD1.1	SITE DESIGN
SD1.2	SITE ENLARGED PLANS
SD1.3	SITE DETAILS
SD1.4 RCHITECTU	SITE DETAILS
A0.0	WALL TYPES AND SPECIALTY ASSEMBLIES LEGEND
A0.0	EXISTING BUILDING
A0.2	DEMOLITION PLAN
A0.3	DEMOLITION ROOF PLAN AND ELEVATIONS
A1.0	MAIN FLOOR PLAN
A1.1	MAIN FLOOR PLAN PART 1
A1.2	MAIN FLOOR PLAN PART 2
A2.1 A3.1	BUILDING ELEVATIONS BUILDING SECTIONS
A3.1 A3.2	WALL SECTIONS
A3.3	WALL SECTIONS WALL SECTIONS
A3.4	WALL SECTIONS
A3.5	WALL SECTIONS
A3.6	WALL SECTIONS
A3.7	WALL SECTIONS
A4.1	ENLARGED TOILET ROOM PLANS AND ELEVATIONS
A4.2 A4.3	ENLARGED TOILET ROOM PLANS AND ELEVATIONS INTERIOR ELEVATIONS
A4.3 A4.4	INTERIOR ELEVATIONS INTERIOR ELEVATIONS
A5.1	MILLWORK DETAILS
A5.2	MILLWORK DETAILS
A5.3	FIX EQUIPMENT SCHEDULE
A5.4	FLOOR PLAN DETAILS
A6.1	DOOR & WINDOW SCHEDULE
A6.2 A6.3	DOOR DETAILS DOOR & WINDOW DETAILS
A6.4	FINISH SCHEDULE
A7.1	REFLECTED CEILING PLAN PART 1
A7.2	REFLECTED CEILING PLAN PART 2
A7.3	CEILING DETAILS
A8.1	ROOF PLAN
A8.2	ROOF DETAILS
AA00	ROLLING ASSETS ADD ALTERNATE #1
AA01	ROLLING ASSETS ADD ALTERNATE #1 ROLLING ASSETS ADD ALTERNATE #1
AA02 AA03	ROLLING ASSETS ADD ALTERNATE #1 ROLLING ASSETS ADD ALTERNATE #1 DETAILS
TRUCTURAL	
S1.1	STRUCTURAL NOTES AND TYPICAL DETAILS
S1.2	SPECIAL INSPECTIONS
S1.3	SCHEDULES & TYPICAL DETAILS
S2.1	FOUNDATION PLAN
S2.2	FOUNDATION PLAN AREA ONE
S2.3 S3.1	FOUNDATION PLAN AREA TWO WALL FRAMING PLAN
S3.1	WALL FRAMING PLAN WALL FRAMING PLAN AREA 1
S3.3	WALL FRAMING PLAN AREA 2
S3.4	MASONRY WALL ELEVATIONS
S3.5	MASONRY WALL ELEVATIONS
S3.6	MASONRY WALL ELEVATIONS
S4.1	ROOF FRAMING PLAN
S4.2	ROOF FRAMING PLAN AREA 2
S4.3 S5.1	ROOF FRAMING PLAN AREA 2
S5.1 S5.2	WALL SECTIONS WALL SECTIONS
S5.2 S5.3	WALL SECTIONS WALL SECTIONS
S5.4	WALL SECTIONS
S6.1	STRUCTURAL SECTIONS
S6.2	STRUCTURAL SECTIONS
S6.3	STRUCTURAL SECTIONS

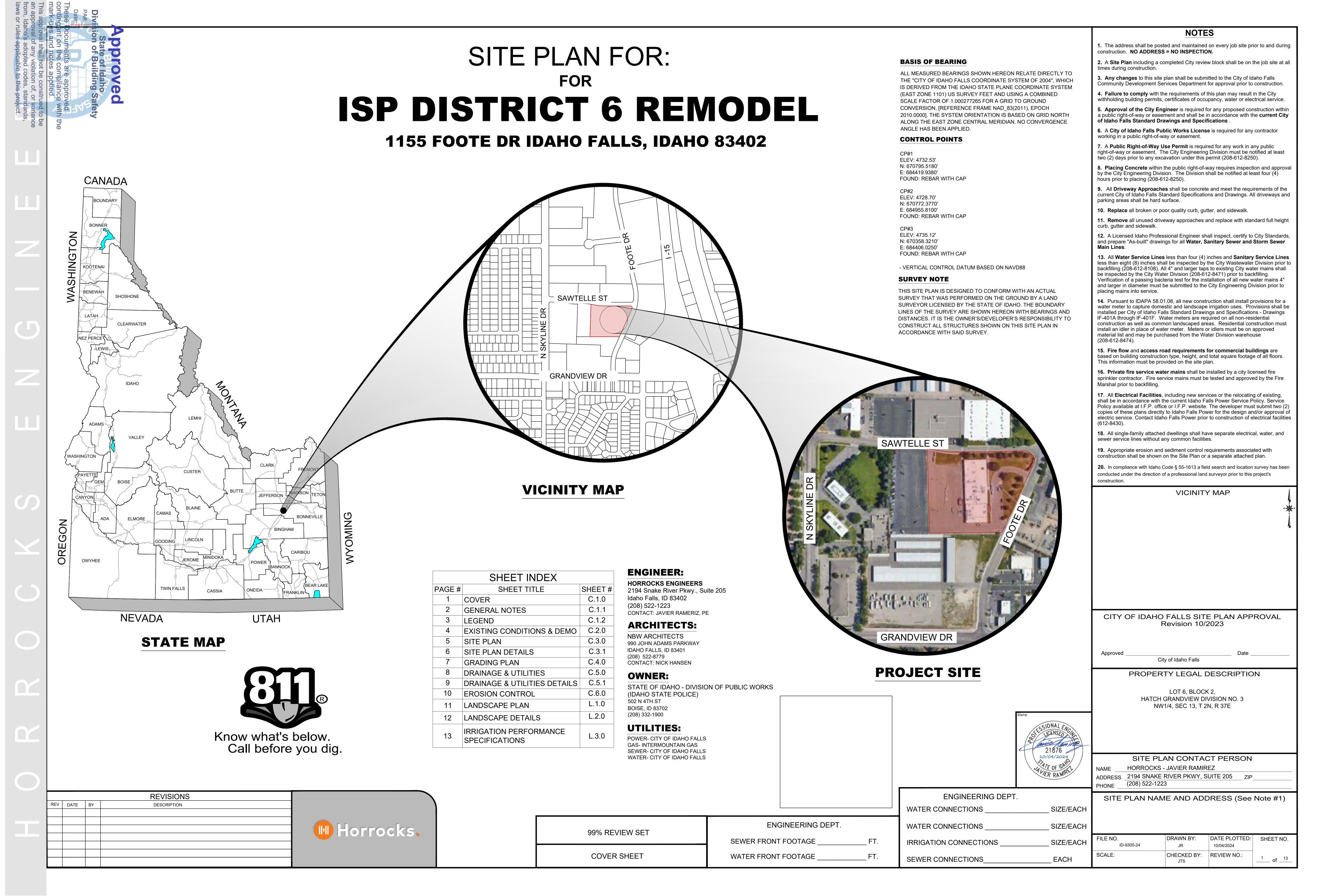
MECHANICAL M0.00 M0.10 MD1.10 MD1.12 MD1.20 MD1.21 M1.10 M1.11 M1.20 M1.21 M1.30 M2.00 M2.10 M3.00 M4.10	MECHANICAL DEMOLITION FLOOR PLAN - SHELL MECHANICAL DEMOLITION ROOF PLAN - MAIN BUILDING MECHANICAL DEMOLITION ROOF PLAN - SHELL MECHANICAL FLOOR PLAN - MAIN BUILDING MECHANICAL FLOOR PLAN - MAIN BUILDING VRF PIPING MECHANICAL FLOOR PLAN - SHELL MECHANICAL ROOF PLAN - MAIN BUILDING MECHANICAL ROOF PLAN - SHELL MECHANICAL ROOF PLAN - SHELL MECHANICAL FLOOR PLAN - ROLLING ASSET BUILDING (A ALTERNATE #1)
M0.10 MD1.10 MD1.12 MD1.20 MD1.21 M1.10 M1.11 M1.22 M1.20 M1.21 M1.30 M2.00 M2.10 M3.00	ENERGY CODE COMPLIANCE MECHANICAL DEMOLITION FLOOR PLAN - MAIN BUILDING MECHANICAL DEMOLITION FLOOR PLAN - SHELL MECHANICAL DEMOLITION ROOF PLAN - MAIN BUILDING MECHANICAL DEMOLITION ROOF PLAN - SHELL MECHANICAL FLOOR PLAN - MAIN BUILDING MECHANICAL FLOOR PLAN - MAIN BUILDING VRF PIPING MECHANICAL FLOOR PLAN - SHELL MECHANICAL ROOF PLAN - MAIN BUILDING MECHANICAL ROOF PLAN - SHELL MECHANICAL ROOF PLAN - SHELL MECHANICAL FLOOR PLAN - ROLLING ASSET BUILDING (A ALTERNATE #1)
MD1.10 MD1.12 MD1.20 MD1.21 M1.10 M1.11 M1.22 M1.20 M1.21 M1.30 M2.00 M2.10 M3.00	MECHANICAL DEMOLITION FLOOR PLAN - MAIN BUILDING MECHANICAL DEMOLITION FLOOR PLAN - SHELL MECHANICAL DEMOLITION ROOF PLAN - MAIN BUILDING MECHANICAL DEMOLITION ROOF PLAN - SHELL MECHANICAL FLOOR PLAN - MAIN BUILDING MECHANICAL FLOOR PLAN - MAIN BUILDING VRF PIPING MECHANICAL FLOOR PLAN - SHELL MECHANICAL ROOF PLAN - MAIN BUILDING MECHANICAL ROOF PLAN - SHELL MECHANICAL ROOF PLAN - SHELL MECHANICAL FLOOR PLAN - ROLLING ASSET BUILDING (A ALTERNATE #1)
MD1.12 MD1.20 MD1.21 M1.10 M1.11 M1.22 M1.20 M1.21 M1.30 M2.00 M2.10 M3.00	MECHANICAL DEMOLITION FLOOR PLAN - SHELL MECHANICAL DEMOLITION ROOF PLAN - MAIN BUILDING MECHANICAL DEMOLITION ROOF PLAN - SHELL MECHANICAL FLOOR PLAN - MAIN BUILDING MECHANICAL FLOOR PLAN - MAIN BUILDING VRF PIPING MECHANICAL FLOOR PLAN - SHELL MECHANICAL ROOF PLAN - MAIN BUILDING MECHANICAL ROOF PLAN - SHELL MECHANICAL ROOF PLAN - SHELL MECHANICAL FLOOR PLAN - ROLLING ASSET BUILDING (A ALTERNATE #1)
MD1.20 MD1.21 M1.10 M1.11 M1.20 M1.21 M1.30 M2.00 M2.10 M3.00	MECHANICAL DEMOLITION ROOF PLAN - MAIN BUILDING MECHANICAL DEMOLITION ROOF PLAN - SHELL MECHANICAL FLOOR PLAN - MAIN BUILDING MECHANICAL FLOOR PLAN - MAIN BUILDING VRF PIPING MECHANICAL FLOOR PLAN - SHELL MECHANICAL ROOF PLAN - MAIN BUILDING MECHANICAL ROOF PLAN - SHELL MECHANICAL FLOOR PLAN - SHELL MECHANICAL FLOOR PLAN - ROLLING ASSET BUILDING (AALTERNATE #1)
MD1.21 M1.10 M1.11 M1.12 M1.20 M1.21 M1.30 M2.00 M2.10 M3.00	MECHANICAL FLOOR PLAN - MAIN BUILDING MECHANICAL FLOOR PLAN - MAIN BUILDING VRF PIPING MECHANICAL FLOOR PLAN - SHELL MECHANICAL ROOF PLAN - MAIN BUILDING MECHANICAL ROOF PLAN - SHELL MECHANICAL FLOOR PLAN - ROLLING ASSET BUILDING (FALTERNATE #1)
M1.11 M1.12 M1.20 M1.21 M1.30 M2.00 M2.10 M3.00	MECHANICAL FLOOR PLAN - MAIN BUILDING VRF PIPING MECHANICAL FLOOR PLAN - SHELL MECHANICAL ROOF PLAN - MAIN BUILDING MECHANICAL ROOF PLAN - SHELL MECHANICAL FLOOR PLAN - ROLLING ASSET BUILDING (AALTERNATE #1)
M1.12 M1.20 M1.21 M1.30 M2.00 M2.10 M3.00	MECHANICAL FLOOR PLAN - SHELL MECHANICAL ROOF PLAN - MAIN BUILDING MECHANICAL ROOF PLAN - SHELL MECHANICAL FLOOR PLAN - ROLLING ASSET BUILDING (AALTERNATE #1)
M1.20 M1.21 M1.30 M2.00 M2.10 M3.00	MECHANICAL ROOF PLAN - MAIN BUILDING MECHANICAL ROOF PLAN - SHELL MECHANICAL FLOOR PLAN - ROLLING ASSET BUILDING (A ALTERNATE #1)
M1.21 M1.30 M2.00 M2.10 M3.00	MECHANICAL ROOF PLAN - SHELL MECHANICAL FLOOR PLAN - ROLLING ASSET BUILDING (A ALTERNATE #1)
M1.30 M2.00 M2.10 M3.00	MECHANICAL FLOOR PLAN - ROLLING ASSET BUILDING (A ALTERNATE #1)
M2.10 M3.00	,
M3.00	CONTROLS SCHEMATICS
	VRF SCHEMATICS
	MECHANICAL SECTIONS
	MECHANICAL DETAILS
M5.10 M5.11	MECHANICAL DETAILS MECHANICAL DETAILS
M6.10	MECHANICAL SCHEDULES
M6.11	MECHANICAL SCHEDULES
PLUMBING	
P0.00	GENERAL NOTES, SHEET INDEX, LEGEND
PD1.10	PLUMBING DEMOLITION FLOOR PLAN - MAIN BUILDING
PD1.11 PD1.20	PLUMBING DEMOLITION FLOOR PLAN - SHELL PLUMBING DEMOLITION ROOF PLAN - MAIN BUILDING
P1.10	PLUMBING FLOOR PLAN - MAIN BUILDING
P1.11	PLUMBING FLOOR PLAN - SHELL
P1.20	PLUMBING ROOF PLAN - MAIN BUILDING
P1.21	PLUMBING ROOF PLAN - SHELL
P1.30	PLUMBING FLOOR PLAN - ROLLING ASSETS BUILDING (AUDITOR ALTERNATE #1)
P2.00	PLUMBING SCHEMATICS
P4.10	ENLARGED PLUMBING PLANS
P5.10	PLUMBING DETAILS
P5.11	PLUMBING DETAILS
P6.10	PLUMBING SCHEDULES
P6.11 FIRE PROTEC	PLUMBING SCHEDULES
F1.10	FIRE SPRINKLER FLOOR PLAN - MAIN BUILDING
F1.20	FIRE SPRINKLER FLOOR PLAN - ROLLING ASSETS BUILDI
	(ADD ALTERNATE #1)
TECHNOLOGY	
T001 T051	TECHNOLOGY SYMBOLS, LEGEND, NOTES AND INDEX TECHNOLOGY SITE PLAN
T101	VOICE/DATA MAIN LEVEL FLOOR PLAN
T201	AUDIO/VISUAL AND SECURITY LEVEL 01 FLOOR PLAN
T301	ROLLING ASSETS STORAGE BUILDING - ADD ALTERNATE
T401	ENLARGED PLANS
T631	SECURITY RISER DIAGRAMS
T711	VOICE/DATA DETAILS
T712 T721	VOICE/DATA DETAILS AUDIO/VISUAL DETAILS
T731	SECURITY DETAILS
T732	SECURITY DETAILS
T733	SECURITY DETAILS
ELECTRICAL	Tel = 0== 0 == 0 == 0
E-000	ELECTRICAL COVER SHEET
E-001 E-002	ELECTRICAL SITE PLAN ELECTRICAL SITE DETAILS
ED-100	LIGHTING DEMOLITION PLAN - PART 1
ED-101	LIGHTING DEMOLITION PLAN - PART 2
ED-102	ELECTRICAL DEMOLITION PLAN - PART 1
ED-103	ELECTRICAL DEMOLITION PLAN - PART 2
E-100	LIGHTING PLAN - PART 1
E-101	LIGHTING PLAN - PART 2
E-200 E-201	POWER PLAN - PART 1 POWER PLAN - PART 2
E-300	MECHANICAL POWER PLAN - PART 1
E-301	MECHANICAL POWER PLAN - PART 2
E-302	ROOF MECHANICAL POWER PLAN - PART 1
E-303	ROOF MECHANICAL POWER PLAN - PART 2
E-304	ENLARGED MECHANICAL HEAT TRACE POWER PLAN
E-400 E-401	ONE-LINE DIAGRAM PANEL SCHEDULES
E-401 E-402	PANEL SCHEDULES PANEL SCHEDULES
E-402 E-500	ELECTRICAL DETAILS
E-600	LIGHTING DETAILS

DPW 22511 ISP NEW DISTRICT #6 FACILITY

PROJECT NO. 21034 DATE: OCTOBER 2024 DRAWN BY: NRH/BTH/JNH CHECKED BY:







GENERAL NOTES

TIONS AND DRAWINGS USED FOR THIS PROJECT ARE CITY OF IDAHO FALLS ENGINEERING DETARTMENT STANDARD DRAWINGS AND SPECIFICATIONS(2022). AND IDAHO STANDARDS ON PUBLIC WORKS CONTRUCTION(ISPWC, 2020).

USEX EAVARD SHALL BE PLACED ON SITE AND DISPOSED OF AT AN APPROVED LOCATION. ON OPER, SEWER AND STORM SHALL BE TO THE CITY OF IDAHO FALLS STANDARDS. THE SPECIFICATIONS AND DRAWINGS ARE AVAILABLE ONLINE AT: http://www.idahofallsidaho.gov/

ALL CONSTRUCTION OF STREETS LOCATED WITHIN THE CITY RIGHT-OF-WAY SHALL BE TO THE CITY OF

- THE CONTRACTOR SHALL LOCATE, RETAIN, AND PROTECT ALL EXISTING UTILITIES UNLESS DESIGNATED TO BE REMOVED.
- 7. ALL UTILITIES ADJUSTMENT OF MANHOLES, WATER VALVES, ETC. SHALL BE ADJUSTED TO FINISH GRADE BY THE CONTRACTOR AFTER PAVING AND LANDSCAPING ARE COMPLETE.
- 8. CONTRACTOR IS REQUIRED TO HAVE A SWPPP IN PLACE PRIOR TO ANY EARTH WORK OR CONSTRUCTION. 9. CONTRACTOR IS REQUIRED TO MAINTAIN THE SWPPP UNTIL THE NOTICE OF TERMINATION (NOT) IS FILED.
- 10. ANY MODIFICATION TO THE CONSTRUCTION, TO THE CONSTRUCTION SCHEDULE, OR TO THE CONSTRUCTION PHASE LIMITS SHALL BE APPROVED BY THE CITY ENGINEER. PRIOR TO SAID APPROVAL ALL IMPROVEMENT DRAWINGS SHALL BE RE-SUBMITTED TO THE CITY ENGINEER DEPT. SHOWING THE PROPOSED CHANGES.
- 11. CONTRACTOR IS RESPONSIBLE TO CONTROL ALL TEMPORARY STORM WATER POLLUTION AND DUST ABATEMENT DURING THE CONSTRUCTION PHASE AS REQUIRED BY THE FEDERAL CLEAN WATER ACT.
- 12. ALL STORM PIPE AND SANITARY SEWER PIPE SHALL BE TO THE CITY OF IDAHO FALLS STANDARDS.
- 13. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR ASSUMES ALL RESPONSIBILITY FOR ANY AND ALL DAMAGES CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.
- 14. THE CONTRACTOR SHALL MAINTAIN ALL EXISTING DRAINAGE FACILITIES WITHIN THE CONSTRUCTION AREA UNTIL THE DRAINAGE IMPROVEMENTS ARE IN PLACE AND FUNCTIONING.
- 15. ALL CONTRACTORS WORKING WITHIN THE PROJECT BOUNDARIES ARE RESPONSIBLE FOR COMPLIANCE WITH ALL APPLICABLE SAFETY LAWS OF ANY JURISDICTIONAL BODY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL BARRICADES, SAFETY DEVICES AND CONTROL OF TRAFFIC WITHIN AND AROUND THE CONSTRUCTION AREA.
- 16. THE CONTRACTOR SHALL KEEP ON SITE AT ALL TIMES A COPY OF THE APPROVED CONSTRUCTION PLANS ON WHICH IS RECORDED THE ACTUAL LOCATIONS OF THE CONSTRUCTED UTILITIES AND ANY OTHER UTILITIES ENCOUNTERED. THE CONTRACTOR SHALL PROVIDE THESE LOCATIONS TO THE DESIGN FNGINFFR
- 17. THE CONTRACTOR(S) SHALL REMOVE ALL OBSTRUCTIONS, BOTH ABOVE AND BELOW GROUND, AS REQUIRED FOR THE CONSTRUCTION OF THE PROPOSED IMPROVEMENTS. THIS SHALL INCLUDE CLEARING AND GRUBBING WHICH CONSISTS OF CLEARING THE GROUND SURFACE OF ALL TREES, STUMPS, BRUSH, UNDERGROWTH, HEDGES, HEAVY GROWTH OF GRASS OR WEEDS, FENCES, STRUCTURES, DEBRIS, RUBBISH, AND SUCH MATERIAL WHICH IN THE OPINION OF THE ENGINEER, IS UNSUITABLE FOR THE FOUNDATION OF PAVEMENTS. ALL MATERIAL NOT SUITABLE FOR FUTURE USE ON SITE SHALL BE DISPOSED
- 18. CONTRACTOR IS REQUIRED TO CALL DIG LINE OF IDAHO 1-800-342-1585 AT LEAST (2) BUSINESS DAYS PRIOR TO CONSTRUCTION, TO DETERMINE LOCATION OF UNDERGROUND UTILITIES.
- 19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL RECOMMENDATIONS WITHIN THE GEOTECHNICAL REPORT
- 20. GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF WORK AND BETWEEN TRADES. SUB-CONTRACTORS ARE ALSO RESPONSIBLE FOR COORDINATION WITH OTHER TRADES AND DISCIPLINES INCLUDED IN THE CONTRACT DOCUMENTS, IF ANY DISCREPANCIES ARE FOUND. THE GENERAL CONTRACTOR IS TO NOTIFY ENGINEER IMMEDIATELY BEFORE COMMENCEMENT OF WORK. NO EXTRA COSTS TO THE PROJECT WILL BE INCURRED DUE TO FAILURE OF GENERAL CONTRACTOR AND/OR SUB-CONTRACTORS TO REVIEW CONTRACT DOCUMENTS AND COORDINATE WITH OTHER TRADES.
- 21. ALL TRAFFIC CONTROL SHALL CONFORM TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND CITY STANDARDS.
- 22. THE CONTRACTOR MUST OBTAIN A PERMIT FROM THE BUILDING DEPARTMENT FOR ANY WALLS GREATER THAN 4' IN HEIGHT CONSTRUCTED WITHIN THE PROJECT. ALL ROCK WALLS CONSTRUCTED WITHIN THE PROJECT MUST BE CERTIFIED AND INSPECTED BY A LICENSED ENGINEER PRIOR TO THE CITY'S FINAL ACCEPTANCE

UTILITY NOTES

- 1. ALL WATER MAINLINES SHALL BE D.I. CLASS 50.
- 2. THE WATER LINE CONSTRUCTION SHALL CONFORM TO CITY OF IDAHO FALLS STANDARD DRAWINGS & SPECIFICATIONS AND THE DEPARTMENT OF ENVIRONMENTAL QUALITY REGULATIONS OF PUBLIC DRINKING WATER SYSTEMS AND DISINFECTION SPECIFICATIONS SHOULD BE TO ANSI/AWWA C 651-92: DISINFECTION OF WATER MAINS STANDARDS.
- 3. THE CONTRACTOR SHALL MAINTAIN 10' HORIZ. AND 18" VERT. SEPARATION BETWEEN WATER AND SEWER

- 1. ALL SANITARY SEWER PIPE SHALL BE TO THE PROJECT STANDARDS.
- 2. CONTRACTOR SHALL INSTALL ALL SANITARY SEWER MAINS AND SERVICE LINES PRIOR TO INSTALLING ANY WATER SYSTEM IMPROVEMENTS. ADJUST WATER LINES AS PER PLANS TO MAINTAIN SEPARATION OF MAIN LINES AND TO AVOID SANITARY SEWER SERVICE LINES.
- 3. THE CONTRACTOR SHALL MAINTAIN 10' HORIZ. AND 18" VERT. SEPARATION BETWEEN WATER AND SEWER
- 4. ALL NEW AND EXISTING SEWER SYSTEMS WILL BE MANDREL AND AIR TESTED.
- 5. SEWER LENGTHS AND SLOPES ON THE PROFILE VIEWS ARE MEASURED FROM CENTER-CENTER OF
- 6. ALL REMOVED EXISTING SEWER OR WATER UTILITIES SHALL EITHER BE SALVAGED OR PROPERLY DISPOSED OF ACCORDING TO GOVERNING REGULATIONS.
- 7. ALL ABANDONED OR UNUSED SEWER MANHOLES SHALL BE COMPLETELY REMOVED.
- 8. SEWER MAINS ABANDONED IN PLACE SHALL BE CUT AT EACH END, AND SHALL EITHER BE PLUGGED OR CAPPED WITH A PLASTIC OR CONCRETE CAP.
- 9. SEWER LATERALS MAY EITHER BE COMPLETELY REMOVED OR ABANDONED IN PLACE. LATERALS TO BE REMOVED SHALL BE CUT AT THE MAIN AND CAPPED ON BOTH ENDS AS INDICATED IN NOTE 6 ABOVE.

IRRIGATION

- 1. IRRIGATION SLEEVES SHALL BE INSTALLED AS SHOWN.
- 2. ALL PRESSURE IRRIGATION PIPE SHALL BE INSTALLED AND AIR TESTED IN THE SAME MANNER AS THE CULINARY WATER SYSTEM PER THE "IDAHO FALLS STANDARDS"
- 3. ALL IRRIGATION PIPING INCLUDING SERVICE MATERIALS MUST BE PER CITY OF IDAHO FALLS STANDARDS.
- 4. ALL LANDSCAPE IRRIGATION SERVICES MUST HAVE A METER WITH METER PIT.

1. THE FIRE SPRINKLER UNDERGROUND WATER SUPPLY IS TO BE INSTALLED BY, OR UNDER THE SUPERVISION OF A STATE AND CITY OF IDAHO FALLS LICENSED SPRINKLER CONTRACTOR INSTALLATION CANNOT BEGIN UNTIL THE STATE FIRE MARSHAL APPROVES AND STAMPS PLANS. OR GIVES WRITTEN PERMISSION TO ADVANCE ON THE PROJECT, AND THIS INFORMATION HAS BEEN RECEIVED BY THE FIRE PREVENTION DIVISION OF THE IDAHO FALLS FIRE DEPARTMENT. THE PRIVATE FIRE SERVICE MAIN MUST MEET THE REQUIREMENTS OF NFPA 24 AND PASS ALL INSPECTION POINTS. ALL JOINTS AND CONNECTIONS MUST BE INSPECTED PRIOR TO COVERING, DEPTH OF COVER FOR OUR AREA IS 6' MINIMUM

ELECTRICAL NOTES

- 1. ALL NEW ELECTRICAL FACILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT IDAHO FALLS POWER SERVICE POLICY. COORDINATE ALL ELECTRICAL CONSTRUCTION WITH IDAHO
- 2. PRIMARY SECTIONALIZING CABINETS, TRANSFORMER GROUND SLEEVES, SECONDARY PEDESTALS, FIBER BOXES, AND GROUND RODS SHALL BE PROVIDED BY IFP, BUT SHALL BE PICKED UP AT THE IFP WAREHOUSE AND/OR WEST SIDE YARD AND INSTALLED BY THE CONTRACTOR.
- 3. ALL PVC ELECTRIC CONDUITS SHALL BE PVC SCHEDULE 40 (SEE NOTE 5 AND 6 FOR EXCEPTIONS). ALL ELBOWS SHALL BE PVC SCHEDULE 40 LARGE RADIUS SWEEP (36") OR AS OTHERWISE SPECIFIED BY IFP (SEE NOTE 5 AND 6 FOR EXCEPTIONS). RGS CONDUIT MUST BE USED AT RISER POLES. CONDUITS MUST BE CAPPED AND LABELED TO IDENTIFY ROUTING.
- 4. THE MINIMUM POWER TRENCH SHALL HAVE A MINIMUM DEPTH OF FIFTY-FOUR INCHES (54") AND MAXIMUM DEPTH OF SIXTY INCHES (60") BELOW FINISH GRADE (CONDUIT TO BE INSTALLED 48" BELOW FINISH GRADE). INCLUDING 6" OF SAND BEDDING BELOW AND ABOVE TOP OF CONDUITS. MINIMUM TRENCH WIDTH SHALL BE TWENTY-FOUR INCHES (24"), UNLESS OTHERWISE NOTED. ALL PRIMARY CONDUIT MUST HAVE A MINIMUM OF ONE (1) FOOT SEPARATION BETWEEN OTHER CONDUITS IN TRENCH. BOTTOM OF TRENCHES MUST BE LEVEL FOR CONDUIT INSTALLATION. ALL TRENCHES AND CONDUITS (INCLUDING ROAD CROSSINGS) MUST BE INSPECTED BY IDAHO FALLS POWER PRIOR TO BACK-FILLING. BACKFILL AND COMPACT ALL TRENCHES TO A MINIMUM OF 95% OF MAX DENSITY. (SECONDARY CONDUITS CAN BE REDUCED TO 30" OF COVER)
- 5. MINIMUM CONDUIT DEPTH CAN BE REDUCED TO EIGHTEEN INCHES (18") OF COVER BELOW FINAL GRADE THROUGH BASALT OR OTHER ROCK UPON PRIOR APPROVAL OF IFP. RIGID GALVANIZED STEEL (RGS) CONDUIT SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR. IFP WILL SPECIFY THE CONDUIT SIZE.
- 6. 2" HDPE SDR 13.5 CONTINUOUS DUCT CAN BE UTILIZED BY THE CONTRACTOR INSTEAD OF 2 1/2" PVC SCHEDULE 40 AS SPECIFIED ON THE CONTRACTOR MAP FOR PROPOSED 1/0 SINGLE PHASE PRIMARY CONDUCTOR. CONDUIT TO BE RED IN COLOR OR BLACK WITH RED STRIPES (RED CONDUIT PREFERRED). IF POSSIBLE HDPE TO BE ORDERED WITH "IFP" STAMPED ON CONDUIT. THE HDPE CAN BE TURNED UP INSIDE OF GROUND SLEEVES OR CONTRACTOR MAY TRANSITION TO 2" PVC SCHEDULE 40 LARGE RADIUS SWEEP (36") WITH PERMA-GUARD/UL FITTINGS BY ARNCO SHUR-LOCK II OR APPROVED EQUAL BY IFP.
- 7. CONTRACTOR / DEVELOPER TO INSTALL A 2500 LB MULE TAPE STRING THROUGH EACH PRIMARY POWER CONDUIT RUN MORE THAN 75 LF, ALL SERVICES FROM THE METER BASE TO THE TRANSFORMER / SECONDARY PEDESTAL, AND INSTALL PULL STRING FOR FIBER OPTIC CONDUIT
- 8. THE DEVELOPER/CONTRACTOR SHALL PROVIDE ALL STAKING AND LAYOUT OF NEW ELECTRICAL AND FIBER FACILITIES INCLUDING POWER POLES. ALL LOT CORNERS ADJACENT TO ALL POWER TRENCHES MUST BE CLEARLY MARKED FOR INSTALLATION OF ELECTRICAL FACILITIES.
- 9. THE CONTRACTOR SHALL RETAIN AND PROTECT ALL EXISTING CITY POWER POLES AND ELECTRICAL AND FIBER FACILITIES DURING CONSTRUCTION. ALSO, REPAIR / REPLACE ALL CONCRETE, ASPHALT, AND LANDSCAPING THAT IS DISTURBED DURING CONSTRUCTION.
- 10. IT SHALL BE THE CUSTOMER OR CONTRACTOR'S RESPONSIBILITY TO PROVIDE ILLUMINATION (STREET LIGHTS) ALONG OR WITHIN THE PUBLIC RIGHTS-OF-WAY CONTAINED WITHIN A NEW DEVELOPMENT
- 11. ALL NEW LIGHT POLE FOUNDATIONS AND LIGHTING CONDUITS SHALL BE CONSTRUCTED BY THE CONTRACTOR IN ACCORDANCE WITH CURRENT CITY OF IDAHO FALLS STANDARD DRAWINGS AND SPECIFICATIONS. IFP WILL FURNISH TO THE CONTRACTOR A BOLT HOLE TEMPLATE (PENDING AVAILABILITY), ANCHOR BOLTS, NUTS, WASHERS, GROUNDING BUTT PLATE, AND GROUND WIRE NEEDED FOR THE INSTALLATION OF THE LIGHT POLES.
- 12. IFP WILL INSTALL POLES AND LUMINAIRES WITH THE COST OF MATERIALS PAID BY THE CONTRACTOR PRIOR TO INSTALLATION.
- 13. ON ALL SUBDIVISIONS THE PADMOUNTED EQUIPMENT (INCLUDING GROUND SLEEVES / PEDESTALS, ETC.) WILL NOT BE PROVIDED OR SET UNTIL CURB AND GUTTER HAS BEEN INSTALLED. IDAHO FALLS POWER WILL PROVIDE GROUND RODS AND CONTRACTOR WILL INSTALL GROUND RODS PRIOR TO INSTALLATION OF CONDUIT.
- 14. ON BUILDINGS SERVING 3 UNITS OR MORE, METER SOCKETS AND UNITS MUST BE PERMANENTLY LABELED PRIOR TO METERS BEING ENERGIZED. ELECTRICIAN WILL BE REQUIRED TO COORDINATE WITH IDAHO FALLS POWER IN ORDER TO VERIFY METER SOCKET IS CONNECTED TO CORRECT UNIT (208-612-8207).

UTILITY NOTES

ELECTRICAL NOTES

- 1. ALL NEW ELECTRICAL FACILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT IDAHO FALLS POWER SERVICE POLICY. COORDINATE ALL ELECTRICAL CONSTRUCTION WITH IDAHO FALLS POWER.
- PRIMARY SECTIONALIZING CABINETS, TRANSFORMER GROUND SLEEVES, SECONDARY PEDESTALS, FIBER BOXES, AND GROUND RODS SHALL BE PROVIDED BY IFP, BUT SHALL BE PICKED UP AT THE IFP WAREHOUSE AND/OR WEST SIDE YARD AND INSTALLED BY THE CONTRACTOR.
- 3. ALL PVC ELECTRIC CONDUITS SHALL BE PVC SCHEDULE 40 (SEE NOTE 5 AND 6 FOR EXCEPTIONS). ALL ELBOWS SHALL BE PVC SCHEDULE 40 LARGE RADIUS SWEEP (36") OR AS OTHERWISE SPECIFIED BY IFP (SEE NOTE 5 AND 6 C. FOR EXCEPTIONS). RGS CONDUIT MUST BE USED AT RISER POLES. CONDUITS MUST BE CAPPED AND LABELED TO IDENTIFY ROUTING.
- 4. THE MINIMUM POWER TRENCH SHALL HAVE A MINIMUM DEPTH OF FIFTY-FOUR INCHES (54") AND MAXIMUM DEPTH OF SIXTY INCHES (60") BELOW FINISH GRADE (CONDUIT TO BE INSTALLED 48" BELOW FINISH GRADE). INCLUDING 6" OF SAND BEDDING BELOW AND ABOVE TOP OF CONDUITS. MINIMUM TRENCH WIDTH SHALL BE TWENTY-FOUR INCHES (24"), UNLESS OTHERWISE NOTED. ALL PRIMARY CONDUIT MUST HAVE A MINIMUM OF ONE (1) FOOT SEPARATION BETWEEN OTHER CONDUITS IN TRENCH. BOTTOM OF TRENCHES MUST BE LEVEL FOR CONDUIT INSTALLATION. ALL TRENCHES AND CONDUITS (INCLUDING ROAD CROSSINGS) MUST BE INSPECTED BY IDAHO FALLS POWER PRIOR TO BACK-FILLING. BACKFILL AND COMPACT ALL TRENCHES TO A MINIMUM OF 95% OF MAX DENSITY. (SECONDARY CONDUITS CAN BE REDUCED TO 30" OF COVER)
- MINIMUM CONDUIT DEPTH CAN BE REDUCED TO EIGHTEEN INCHES (18") OF COVER BELOW FINAL GRADE THROUGH BASALT OR OTHER ROCK UPON PRIOR APPROVAL OF IFP. RIGID GALVANIZED STEEL (RGS) CONDUIT SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR. IFP WILL SPECIFY THE CONDUIT SIZE.
- 6. 2" HDPE SDR 13.5 CONTINUOUS DUCT CAN BE UTILIZED BY THE CONTRACTOR INSTEAD OF 2 ½" PVC SCHEDULE 40 AS SPECIFIED ON THE CONTRACTOR MAP FOR PROPOSED 1/0 SINGLE PHASE PRIMARY CONDUCTOR. CONDUIT TO BE RED IN COLOR OR BLACK WITH RED STRIPES (RED CONDUIT PREFERRED). IF POSSIBLE HDPE TO BE ORDERED WITH "IFP" STAMPED ON CONDUIT. THE HDPE CAN BE TURNED UP INSIDE OF GROUND SLEEVES OR CONTRACTOR MAY TRANSITION TO 2" PVC SCHEDULE 40 LARGE RADIUS SWEEP (36") WITH PERMA-GUARD/UL FITTINGS BY ARNCO SHUR-LOCK II OR APPROVED EQUAL BY IFP.
- 7. CONTRACTOR / DEVELOPER TO INSTALL A 2500 LB MULE TAPE STRING THROUGH EACH PRIMARY POWER CONDUIT RUN MORE THAN 75 LF, ALL SERVICES FROM THE METER BASE TO THE TRANSFORMER / SECONDARY PEDESTAL, AND INSTALL PULL STRING FOR FIBER OPTIC CONDUIT RUNS.
- 8. THE DEVELOPER/CONTRACTOR SHALL PROVIDE ALL STAKING AND LAYOUT OF NEW ELECTRICAL AND FIBER FACILITIES INCLUDING POWER POLES. ALL LOT CORNERS ADJACENT TO ALL POWER TRENCHES MUST BE
- CLEARLY MARKED FOR INSTALLATION OF ELECTRICAL FACILITIES. 9. THE CONTRACTOR SHALL RETAIN AND PROTECT ALL EXISTING CITY POWER POLES AND ELECTRICAL AND FIBER FACILITIES DURING CONSTRUCTION. ALSO, REPAIR / REPLACE ALL CONCRETE, ASPHALT, AND LANDSCAPING
- 10. IT SHALL BE THE CUSTOMER OR CONTRACTOR'S RESPONSIBILITY TO PROVIDE ILLUMINATION (STREET LIGHTS) ALONG OR WITHIN THE PUBLIC RIGHTS-OF-WAY CONTAINED WITHIN A NEW DEVELOPMENT.

THAT IS DISTURBED DURING CONSTRUCTION.

- 11. ALL NEW LIGHT POLE FOUNDATIONS AND LIGHTING CONDUITS SHALL BE CONSTRUCTED BY THE CONTRACTOR IN ACCORDANCE WITH CURRENT CITY OF IDAHO FALLS STANDARD DRAWINGS AND SPECIFICATIONS. IFP WILL FURNISH TO THE CONTRACTOR A BOLT HOLE TEMPLATE (PENDING AVAILABILITY), ANCHOR BOLTS, NUTS, WASHERS, GROUNDING BUTT PLATE, AND GROUND WIRE NEEDED FOR THE INSTALLATION OF THE LIGHT POLES.
- 12. IFP WILL INSTALL POLES AND LUMINAIRES WITH THE COST OF MATERIALS PAID BY THE CONTRACTOR PRIOR TO
- 13. ON ALL SUBDIVISIONS THE PADMOUNTED EQUIPMENT (INCLUDING GROUND SLEEVES / PEDESTALS, ETC.) WILL NOT BE PROVIDED OR SET UNTIL CURB AND GUTTER HAS BEEN INSTALLED. IDAHO FALLS POWER WILL PROVIDE GROUND RODS AND CONTRACTOR WILL INSTALL GROUND RODS PRIOR TO INSTALLATION OF CONDUIT.
- 14. ON BUILDINGS SERVING 3 UNITS OR MORE, METER SOCKETS AND UNITS MUST BE PERMANENTLY LABELED PRIOR TO METERS BEING ENERGIZED. ELECTRICIAN WILL BE REQUIRED TO COORDINATE WITH IDAHO FALLS POWER IN ORDER TO VERIFY METER SOCKET IS CONNECTED TO CORRECT UNIT (208-612-8207).

GRADING & DRAINAGE NOTES

- A. HORROCKS ENGINEERS HAS PREPARED GRADING PLANS AND SIZED DRAINAGE FACILITY SHOWN ON THIS PLAN TO CONTAIN THE RUNOFF FROM THE IDAHO FALLS CITY SPECIFIED DESIGN STORM EVENT FOR THE PROPOSED CITY R.O.W. ONLY.
- DEVELOPER WILL CAUSE THE OWNERS OF THE LOTS TO DESIGN AND CONSTRUCT A RETENTION POND FOR THE CITY STANDARD ON EACH LOT. THE POND SHALL COMPLY WITH THE CITY STANDARD FOR RETENTION POND WITHOUT OUTLET. POND SHALL BE MAINTAINED ON SITE BY OWNER. POND SHALL BE DESIGNED BY A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF IDAHO AND THE ENGINEER SHALL CERTIFY THAT THE VOLUME HAS BEEN CONSTRUCTED PRIOR TO ISSUANCE OF OCCUPANCY PERMIT
- IT IS THE PROPERTY OWNER'S RESPONSIBILITY (DEVELOPER, HOMEOWNER, HOMEOWNERS ASSOC, ETC.) TO COMPLETE AND MAINTAIN THE FINAL GRADING ON THEIR PROPERTY IN ACCORDANCE WITH THE DRAINAGE CONCEPT IDENTIFIED IN THE GRADING AND DRAINAGE PLAN AND GEOTECHNICAL ENGINEER'S RECOMMENDATIONS. THE PROPERTY OWNER IS RESPONSIBLE, IN PERPETUITY, FOR INSPECTING AND MAINTAINING PROPER DRAINAGE DURING CONSTRUCTION AND WHEN RE-GRADING OR MAKING MODIFICATIONS TO DRAINAGE FACILITIES THAT EFFECTS THEIR PROPERTY.
- ALL IMPORTED STRUCTURAL FILL, IF REQUIRED, SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO DELIVERY TO THE SITE
- THE GRADING AND DRAINAGE PLANS DO NOT IDENTIFY THE CONSTRUCTION METHODS, EQUIPMENT, PROCEDURES, AND OR SEQUENCING TO BE EMPLOYED BY THE CONTRACTOR. ALL GRADING OPERATIONS INCLUDING BUT NOT LIMITED TO SITE PREPARATION. SCARIFICATION. EXCAVATION. OVER-EXCAVATION. PLACEMENT OF FILLS. AND COMPACTION OF FILLS. SHALL BE PERFORMED BY THE CONTRACTOR IN CONFORMANCE WITH THE GEOTECHNICAL REQUIREMENTS FOR THE SITE AND ONSITE FIELD OBSERVATIONS AS REQUIRED BY THE GEOTECHNICAL FIRM
- IT IS THE CONTRACTORS RESPONSIBILITY TO NOTIFY HORROCKS IMMEDIATELY IF THERE ARE ANY CONFLICTS BETWEEN THE REQUIREMENTS OF THE GRADING AND DRAINAGE PLANS AND THE REQUIREMENTS OF THE GEOTECHNICAL REPORT OR GEOTECHNICAL FIELD OBSERVATIONS.
- ALL EXCAVATION, GRADING, AND FILL OPERATIONS WITHIN THE BUILDING AREA SHOULD BE OBSERVED BY THE GEOTECHNICAL ENGINEER TO VERIFY SUBSOIL CONDITIONS AND DETERMINE ADEQUACY OF SITE PREPARATION, SUITABILITY OF FILL MATERIALS AND COMPLIANCE WITH COMPACTION REQUIREMENTS.
- THE CONTRACTOR SHALL PROVIDE SUITABLE METHODS & EQUIPMENT TO CONTROL DUST AND AIR POLLUTION CAUSED BY CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL ALSO PROVIDE SUITABLE MUD AND DIRT CONTAINMENT TO MAINTAIN THE WORK SITE. ACCESS ROADWAYS AND ADJACENT
- ALL EXCAVATION AND GRADING SHALL BE IN ACCORDANCE WITH THE CURRENT REQUIREMENTS OF IDAHO CITY CODES, UNIFORM BUILDING CODES, AND THE GEOTECHNICAL INVESTIGATION STUDY.
- THE GEOTECHNICAL ENGINEER SHALL PROVIDE A FINAL GRADING REPORT TO CONFIRM WORK HAS BEEN PERFORMED IN CONFORMANCE WITH THEIR RECOMMENDATIONS.

PROJECT SPECIFICATIONS AND STANDARDS

CONTRACTOR SHALL MAINTAIN A CURRENT COPY OF ALL PROJECT SPECIFICATION AND STANDARDS AT THE

CITY OF IDAHO FALLS ENGINEERING DEPARTMENT STANDARD SPECIFICATIONS (2022).

IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION (ISPWC, 2020).

GEOTECHNICAL REPORT E240445G DATED APRIL 10, 2024

JOBSITE DURING CONSTRUCTION.

UTILITY CONTACTS

CITY OF IDAHO FALLS PUBLIC WORKS 308 CONSTITUTION WAY IDAHO FALLS, IDAHO 83402 (208) 612-8471

CITY OF IDAHO FALLS, IDAHO FALLS POWER 308 CONSTITUTION WAY IDAHO FALLS, IDAHO 83402 (208) 612-8430

> NATURAL GAS INTERMOUNTAIN GAS COMPANY 1527 HOLLIPARK DR. IDAHO FALLS, IDAHO 83401 (208) 542-6600

SEWER CITY OF IDAHO FALLS PUBLIC WORKS 308 CONSTITUTION WAY IDAHO FALLS, IDAHO 83402 (208) 612-8258

ENGINEER'S NOTICE TO CONTRACTOR

THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES OR STRUCTURES SHOWN ON THESE DRAWINGS ARE OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. TO THE BEST OF OUR KNOWLEDGE THERE ARE NO EXISTING UTILITIES EXCEPT AS SHOWN AND WE ASSUME NO RESPONSIBILITY AS TO THE ACCURACY OF THEIR DEPICTED LOCATION ON THESE DRAWINGS. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN, AND ALL OTHER LINES NOT OF RECORD OR NOT SHOWN ON THESE DRAWINGS BY VERIFICATION OF THEIR LOCATION IN THE FIELD PRIOR TO THE START OF CONSTRUCTION ACTIVITIES. THE CONTRACTOR WILL NOTIFY HORROCKS ENGINEERS OF ANY FOUND CONFLICTS PRIOR TO ANY WORK BEING DONE RELATED

TO THE ISSUE.

USE OF THE INFORMATION CONTAINED IN THIS INSTRUMENT FOR OTHER THAN THE SPECIFIC PURPOSE FOR WHICH IT WAS INTENDED AND FOR OTHER THAN THE CLIENT FOR WHOM IT WAS PREPARED IS FORBIDDEN UNLESS EXPRESSLY PERMITTED IN WRITING IN ADVANCE TO HORROCKS ENGINEERS, AND HORROCKS ENGINEERS SHALL HAVE NO LIABILITY TO ANY USE OF THIS INFORMATION WITHOUT THEIR WRITTEN CONSENT

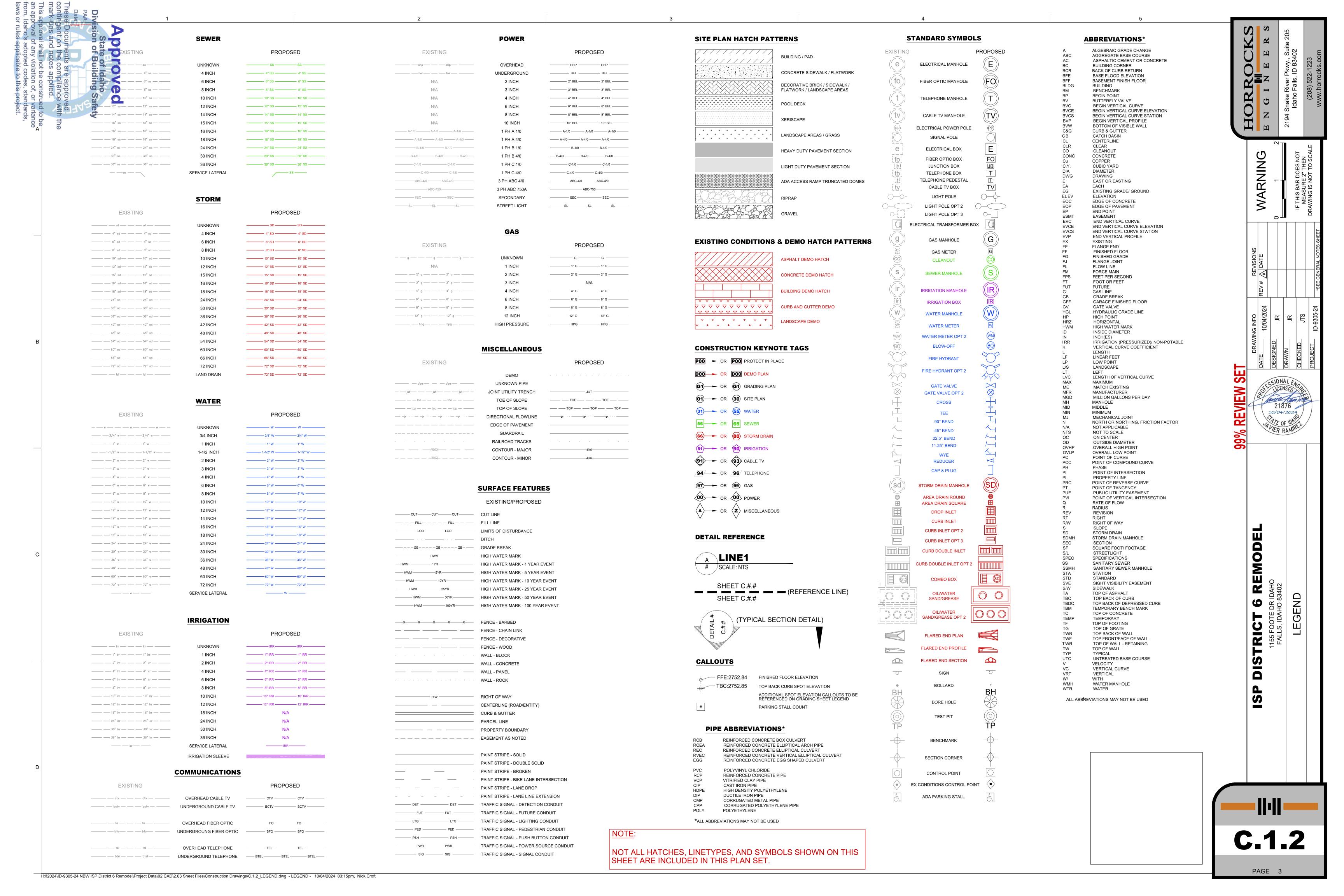
LEGAL NOTICE TO CONTRACTOR

H:\!2024\ID-9305-24 NBW ISP District 6 Remodel\Project Data\02 CAD\2.03 Sheet Files\Construction Drawings\C.1.1 GENERAL NOTES.dwg - GENERAL NOTES - 10/04/2024 03:15pm, Nick.Croft

ੋਂ|<੍#||

S

6



PROTECT IN PLACE NOTES:

- P01 EXISTING APPROACH
- P02 EXISTING ASPHALT
- P03 EXISTING CONCRETE SIDEWALK
- P04 EXISTING CURB

ELECTRICAL BOX TO BE RELOCATED. SEE ELECTRICAL PLANS FOR DETAILS

A=27.43~

R=15.000 D=104°46'09"

C=23.76

EXISTING PROPERTY LINE

-PROPOSED PROPERTY LINE

LOCATION OF DEMO ITEMS WITHIN ISLANDS PRIOR TO REMOVAL. DO NOT REMOVE IF NO CONFLICT

CONTRACTOR TO FIELD VERIFY

EXISTS WITH IMPROVEMENTS.

CB=S37° 32' 27"E

R=565.000

D=8°41'09" C=85.57

CB=S20° 03' 54"W

TN89°55'00"W 348.50';

12

- **P05** EXISTING WATER MAINLINE
- **P06** EXISTING WATER SERVICE LINE
- P07 EXISTING WATER GATE VALVE
- **P08** EXISTING FIRE HYDRANT
- **P09** EXISTING SANITARY SEWER MAINLINE
- P10 EXISTING SANITARY SEWER SERVICE LINE
- P11 EXISTING SANITARY SEWER MANHOLE
- P12 EXISTING ELECTRICAL BOX
- P13 EXISTING FIBER OPTICS BOX
- P14 EXISTING BURIED FIBER OPTICS LINE
- P15 EXISTING TELECOMMUNICATIONS MANHOLE
- P16 EXISTING POWER POLE
- P17 EXISTING LIGHT POLE
- P18 EXISTING IRRIGATION BOX
- P19 EXISTING FENCE
- P20 EXISTING BUILDING
- P21 EXISTING SIGN
- P22 EXISTING TREE
- P23 EXISTING MONUMENT SIGN

DEMOLITION KEY NOTES:

- **D01** EXISTING ASPHALT
- DO2 EXISTING CONCRETE SIDEWALK
- **D03** EXISTING CONCRETE CURB
- **D04** EXISTING ELECTRICAL BOX (REMOVE AND RELOCATE)
- **D05** EXISTING FIBER OPTICS BOX (REMOVE AND RELOCATE)
- **D06** EXISTING FENCE
- **D07** EXISTING GUARDRAIL
- **D08** EXISTING PARKING STRIPING
- D09 EXISTING TREE
- D10 EXISTING CLEANOUT
- D11 EXISTING SIGN
- D13 EXISTING APPROACH

D12 EXISTING SANITARY SEWER SERVICE LINE

- REMOVE EXISTING TRANSFORMERS & ELECTRICAL (SEE ELECTRICAL PLANS FOR UPDATED DESIGN)
- **D15** EXISTING POST INDICATOR VALVE
- P16 REMOVE AND RELOCATE EXISTING SIGN. REFER TO SITE PLAN
- **D17** EXISTING WHEEL STOP
- D18 EXISTING WATER SERVICE LINE
- D19 EXISTING WATER GATE VALVE
- EXISTING BOLTED DOWN GUARDRAIL. REMOVE AND SALVAGE FOR FUTURE REINSTALLATION
- ASPHALT DEMO HATCHING

NOTE:

CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL ITEMS LISTED UNDER THE DEMOLITION KEY NOTES UNLESS MARKED AS 'REMOVE AND RELOCATE.' INFORMATION ON ITEMS THAT ARE TO BE REMOVED AND RELOCATED IS FOUND ON SUBSEQUENT SHEETS. NOTIFY ENGINEER OF ANY DIFFERING CONDITIONS OR DISCREPANCIES.

BASIS OF BEARING ALL MEASURED BEARINGS SHOWN HEREON RELATE DIRECTLY TO THE "CITY OF IDAHO FALLS COORDINATE SYSTEM OF 2004", WHICH

ANGLE HAS BEEN APPLIED.

IS DERIVED FROM THE IDAHO STATE PLANE COORDINATE SYSTEM

2010.0000]. THE SYSTEM ORIENTATION IS BASED ON GRID NORTH

ALONG THE EAST ZONE CENTRAL MERIDIAN. NO CONVERGENCE

(EAST ZONE 1101) US SURVEY FEET AND USING A COMBINED

SCALE FACTOR OF 1.000277265 FOR A GRID TO GROUND

CONVERSION, [REFERENCE FRAME NAD_83(2011), EPOCH

SURVEY NOTE

ACCORDANCE WITH SAID SURVEY.

N89°58'01"W 398.90'

A=165.73-

R=758.390

D=12°31'16" C=165.41

CB=S83° 49' 06"E

A=23.55 R=703.850×

C=23.55

D=1°55'01"

CB=S78° 14' 51"E

SAWTELLE ST.

MAXXX

THIS SITE PLAN IS DESIGNED TO CONFORM WITH AN ACTUAL SURVEY THAT WAS PERFORMED ON THE GROUND BY A LAND SURVEYOR LICENSED BY THE STATE OF IDAHO. THE BOUNDARY LINES OF THE SURVEY ARE SHOWN HEREON WITH BEARINGS AND DISTANCES. IT IS THE OWNER'S/DEVELOPER'S RESPONSIBILITY TO CONSTRUCT ALL STRUCTURES SHOWN ON THIS SITE PLAN IN

CONTROL POINTS • CP#

ELEV: 4732.53' N: 670795.5180' E: 684419.9380' FOUND: REBAR WITH CAP

EXISTING 20' P.U.E.

EXISTING BUILDING

ELEV: 4728.70' N: 670772.3770' E: 684955.8100'

ELEV: 4735.12' N: 670358.3210' E: 684406.0250' FOUND: REBAR WITH CAP

FOUND: REBAR WITH CAP

SHEET NOTE

1. CONTRACTOR TO VERIFY ALL UTILITY SIZES, LOCATIONS & ELEVATIONS PRIOR TO ORDERING MATERIALS FOR CONSTRUCTION.

2. ALL SUBSURFACE ITEMS DESIGNATED FOR REMOVAL SHALL BE REPLACED WITH FILL MATERIAL PER PROJECT GEOTECHNICAL REPORT. CONTRACTOR TO VERIFY AREAS WHERE UNCONTROLLED FILL MAY NEED TO BE FURTHER MITIGATED BY RECOMPACTION. SAID MATERIAL SHALL BE COMPACTED PER SPECIFICATIONS SET FORTH IN PROJECT GEOTECHNICAL REPORT BY MTI, FILE NUMBER E240445G AND DATED 04/10/2024.

4. CONTOURS ARE SHOWN AT 1' AND 5' INTERVALS.

₩ ₩

S

0

S

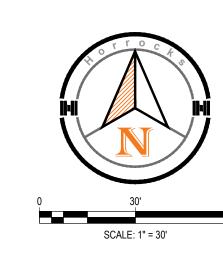
DEMO ∞୪ ONDITIONS

9

XISTING

PAGE 4

- VERTICAL CONTROL DATUM BASED ON NAVD88 H:\!2024\ID-9305-24 NBW ISP District 6 Remodel\Project Data\02 CAD\2.03 Sheet Files\Construction Drawings\C.2.0 EXISTING CONDITIONS & DEMO.dwg - EXISTING CONDITIONS & DEMO - 10/04/2024 03:16pm, Nick.Croft



SAWTELLE ST. PROPOSED BUILDING **EXISTING BUILDING** ± 37,615 SF

SITE PLAN KEYNOTES

- INSTALL HEAVY DUTY ASPHALT (SEE FLEXIBLE PAVEMENT SECTION SUMMARY TABLE SHEET C.3.1)
- 02 INSTALL STANDARD 2.5' CURB & GUTTER PER SD IF-701A
- INSTALL 4" THICK SIDEWALK, (WIDTH PER PLAN) PER ISPWC SD-709, 714, 714A, 714B (2020) UNLESS OTHERWISE NOTED.
- (04) INSTALL LANDSCAPE PER LANDSCAPE PLANS.
- (05) STRIPING PER MUTCD STANDARDS.
- (06) INSTALL FENCE. SEE ARCHITECTURAL PLANS.
- (07) INSTALL GATE PER ARCHITECTURAL PLANS.
- 1NSTALL TRASH ENCLOSURE PAD PER DETAIL 2 SHEET C.3.1. SEE ARCHITECTURAL PLANS FOR ADDITIONAL DETAILS.
- (09) INSTALL TRANSFORMER PAD PER ELECTRICAL PLANS.
- (10) INSTALL COMMUNICATION ANTENNA PAD.
- (11) INSTALL 10" RIBBON CURB SEE DETAIL 3 SHEET C.3.1
- (12) INSTALL CARD READER & KEYPAD PER ARCHITECTURAL DETAILS.
- 13 INSTALL ADA RAMP WITH TRUNCATED DOMES PER STD IF 712A (2022)
- (14) INSTALL ADA SIGN SEE DETAIL 4 SHEET C.3.1
- INSTALL "NO PARKING FIRE LANE" SIGN PER INTERNATIONAL FIRE CODE (15) APPENDIX "D" SECTION 103.6 SIGN TYPE "D" WITH SIGN POST PER DETAIL 6
- SHEET C.3.5. INSTALL IN PIPE BOLLARDS WHERE APPLICABLE
- **16** INSTALL BOLLARD. DETAILS TO BE PROVIDED BY NBW.
- (17) INSTALL DEPRESSED CURB & GUTTER PER ISPWC SD-706
- **18** INSTALL THICKENED EDGE WITH SIDEWALK SEE DETAIL 5 SHEET C.3.1
- (19) INSTALL CONCRETE PAD PER PCCP TABLE ON SHEET C.3.1
- PORTION OF EXISTING 6' CHAIN LINK FENCE TO REMAIN. TIE INTO PROPOSED GATE PER ARCHITECTURAL DETAILS
- INSTALL DEPRESSED CONCRETE TO ALLOW FOR SLIDING GATE PER DETAIL 1
- (21) SHEET C.3.1. REFER TO ARCHITECTURAL DETAILS FOR SLIDING GATE INSTALLATION.
- (22) INSTALL VALLEY GUTTER APPROACH PER SD IF-708A
- install concrete pad for flag poles. See architectural plans for flag pole installation details.
- (24) INSTALL WHEEL BLOCKS PER CITY OF IDAHO FALLS STANDARDS IF-400-3
- **25** INSTALL ALLEY GUTTER PER SD IF-708B
- (26) TRANSITION TO DEPRESSED CURB AND GUTTER



CHIP SEAL ASPHALT IN HATCHED AREAS

WAKK	-		IF THIS BAR DOE MFASIIRF 2" TI	DRAWING IS NOT TO
DATE				
REV# 🗥				

	JR	ַ	አ	E	ח	יל כל	
	DESIGNED	DRAWN		CHECKED		PROJECT	
101/	SION	A	RA	GI	ACE BOOK	\	
10	218			1			

REMOD 9 ISTRICT

C.3.0

PAGE 5

FLEXIBLE PAVEMENT SECTION SUMMARY LIGHT DUTY **HEAVY DUTY** IC CONCRETE 2.5" 3.0" CRUSHED AGGREGATE BASE STRUCTURAL SUBBASE 12.0" SUBGRADE PREPARATION (MAX SEE PAVEMENT SUBGRADE SEE PAVEMENT SUBGRADE LIFT PER GEOTECHNICAL STRUCTURAL SUBBASE: PREPARATION SECTION PREPARATION SECTION REPORT)

-FLEXIBLE PAVEMENT SPECIFICATIONS ARE PER GEOTECHNICAL REPORT PREPARED BY ATLAS, FILE NUMBER

-IT WILL BE REQUIRED FOR ATLAS PERSONNEL TO VERIFY SUBGRADE COMPETENCY AT THE TIME OF CONSTRUCTION

MATERIAL SPECIFICATIONS: ASPHALTIC CONCRETE:

ASPHALT MIX SHALL MEET THE REQUIREMENTS OF THE ISPWC, SECTION 810 CLASS III PLANT MIX. MATERIALS SHALL BE PLACED IN ACCORDANCE WITH ISPWC STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION. AGGREGATE BASE:

MATERIAL COMPLYING WITH ISPWC STANDARDS FOR CRUSHED AGGREGATE MATERIALS

GRANULAR STRUCTURAL FILL MATERIAL COMPLYING WITH THE REQUIREMENTS DETAILED IN THE THE STRUCTURE FILL SECTION OF THE GEOTECHINCAL REPORT (PREPARED BY ATLAS DATED APRIL 10, 2024) EXCEPT THAT THE MAXIMUM MATERIAL DIAMETER IS NO MORE THAN $\frac{2}{3}$ THE COMPONENT THICKNESS. GRADATION AND SUITABILITY REQUIREMENTS SHALL BE PER ISPWC SECTION 801, TABLE 1.

PARKING ANALYSIS				
REQUIREMENTS	REQUIRED	PROVIDED		
PARKING STALLS	55	47		
ADA STALLS	5	5		
UNMARKED STREET PARKING	-	15		
TOTAL	60	67		
NOTES:				
1 STALLS/600 SF OF BUILDING 1 ADA STALL/25 PARKING STALLS				

PARKING STALL COUNT

ADA PARKING STALL

PCCP PAVEMENT SECTION SUMMARY			
PORTLAND CEMENT CONCRETE PAVEMENT	6.0 INCHES		
CRUSHED AGGREGATE BASE	6.0 INCHES		
STRUCTURAL SUBBASE	NOT REQUIRED		
COMPACTED SUBGRADE	SEE PAVEMENT SUBGRADE PREPARATION SECTION		

E240445G AND DATEDAPRIL 10, 2024

CURB & GUTTER

ASPHALT -

-FLEXIBLE PAVEMENT SPECIFICATIONS ARE PER GEOTECHNICAL REPORT PREPARED BY ATLAS, FILE NUMBER E240445G AND DATED APRIL 10, 2024 -IT WILL BE REQUIRED FOR ATLAS PERSONNEL TO VERIFY SUBGRADE COMPETENCY AT THE TIME OF CONSTRUCTION

RIGID PAVEMENT SECTION:
THE AASHTO PAVEMENT DESIGN METHOD WAS USED TO DEVELOP THE FOLLOWING RIGID CONCRETE PAVEMENT SECTION. CONCRETE PAVEMENT SHALL BE BATCHED AND CONSTRUCTED IN ACCORDANCE WITH THE MOST CURRENT AMERICAN CONCRETE INSTITUTE STANDARDS AND IN ACCORDANCE WITH IDAHO TRANSPORTATION DEPARTMENT STANDARD DRAWINGS C-1-A AND C-1-B. NATIVE SUBGRADE SOILS ON THE SITE ARE FROST SUSCEPTIBLE, AND THEREFORE, REQUIRE JOINTS SEALERS OR UNDER-DRAINS.

REQUIREMENTS

MATERIAL SPECIFICATIONS:
PORTLAND CEMENT CONCRETE: 4,000 PSI CONCRETE WITH A MODULUS OF RUPTURE GREATER THAN 650 PSI GENERALLY COMPLYING WITH ITD REQUIREMENT FOR URBAN CONCRETE.

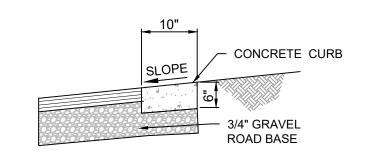
CRUSHED AGGREGATE BASE: MATERIAL COMPLYING WITH ITD STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION SECTION 303 AND 703 FOR AGGREGATES.

GRANULAR STRUCTURAL FILL MATERIAL COMPLYING WITH THE REQUIREMENTS DETAILED IN STRUCTURAL SUBBASE:

THE THE STRUCTURE FILL SECTION OF THE ORIGINAL GEOTECHINCAL REPORT (PREPARED BY ATLAS DATED APRIL 10, 2024) EXCEPT THAT THE MAXIMUM MATERIAL DIAMETER IS NO MORE THAN 3/3 THE COMPONENT THICKNESS. GRADATION AND SUITABILITY SHALL BE PER TABLE 1, ISPWC.

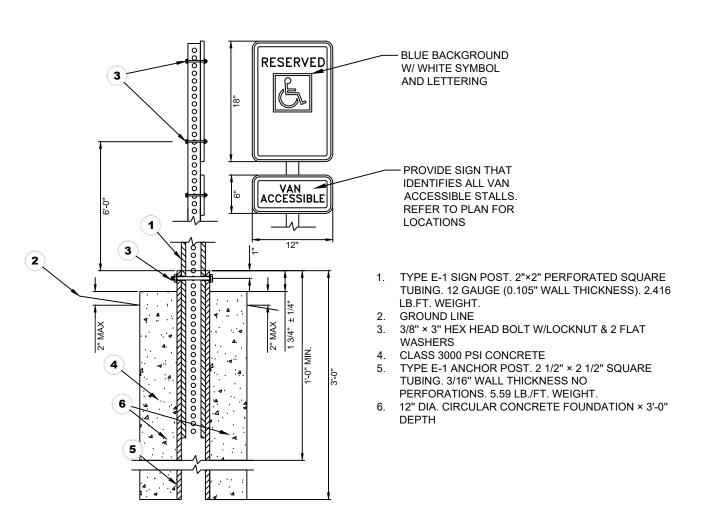
SLIDING GATE REFER TO ARCHITECTURAL DETAILS	BUILDING WALL
CONCRETE SIDEWALK —	CONCRETE DEPRESSION REFER TO PLAN VIEW

DEPRESSED CONCRETE FOR SLIDING GATE

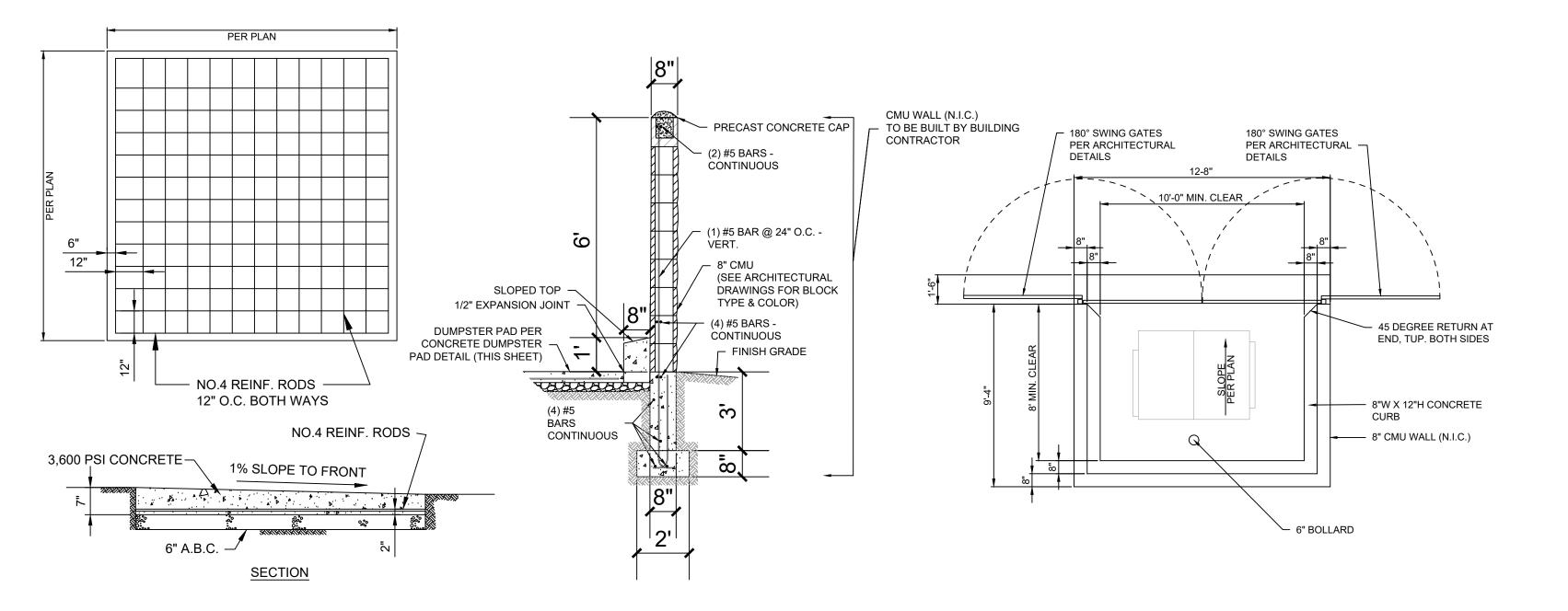


FLOW LINE -

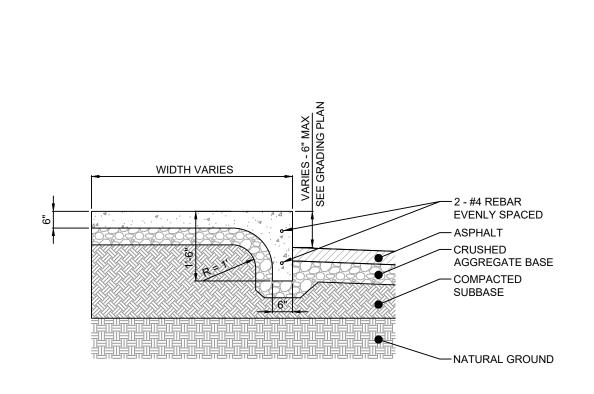
RIBBON CURB



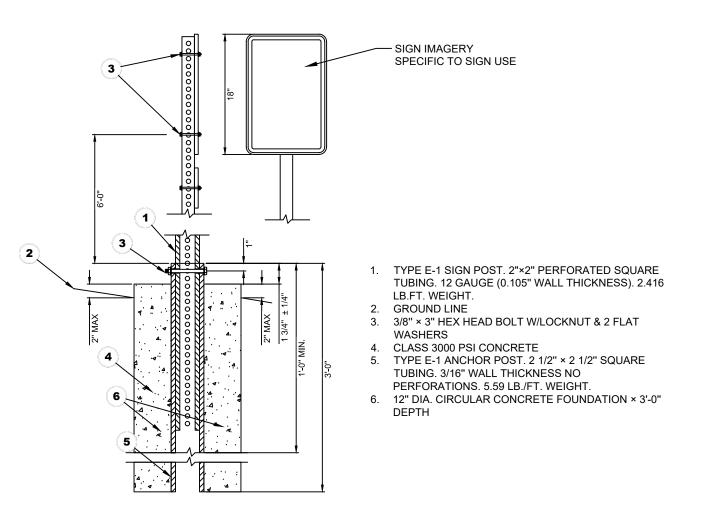
TYPICAL HANDICAP SIGN DETAIL



TRASH ENCLOSURE PLAN (SINGLE BIN)



6" THICKENED EDGE SIDEWALK



6 TYPICAL SIGN DETAIL C.3.1 SCALE: NTS

C.3.1

WARNING

||||

%6(

REMODE

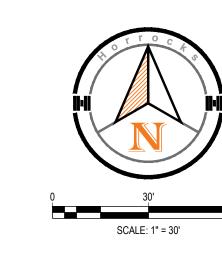
9

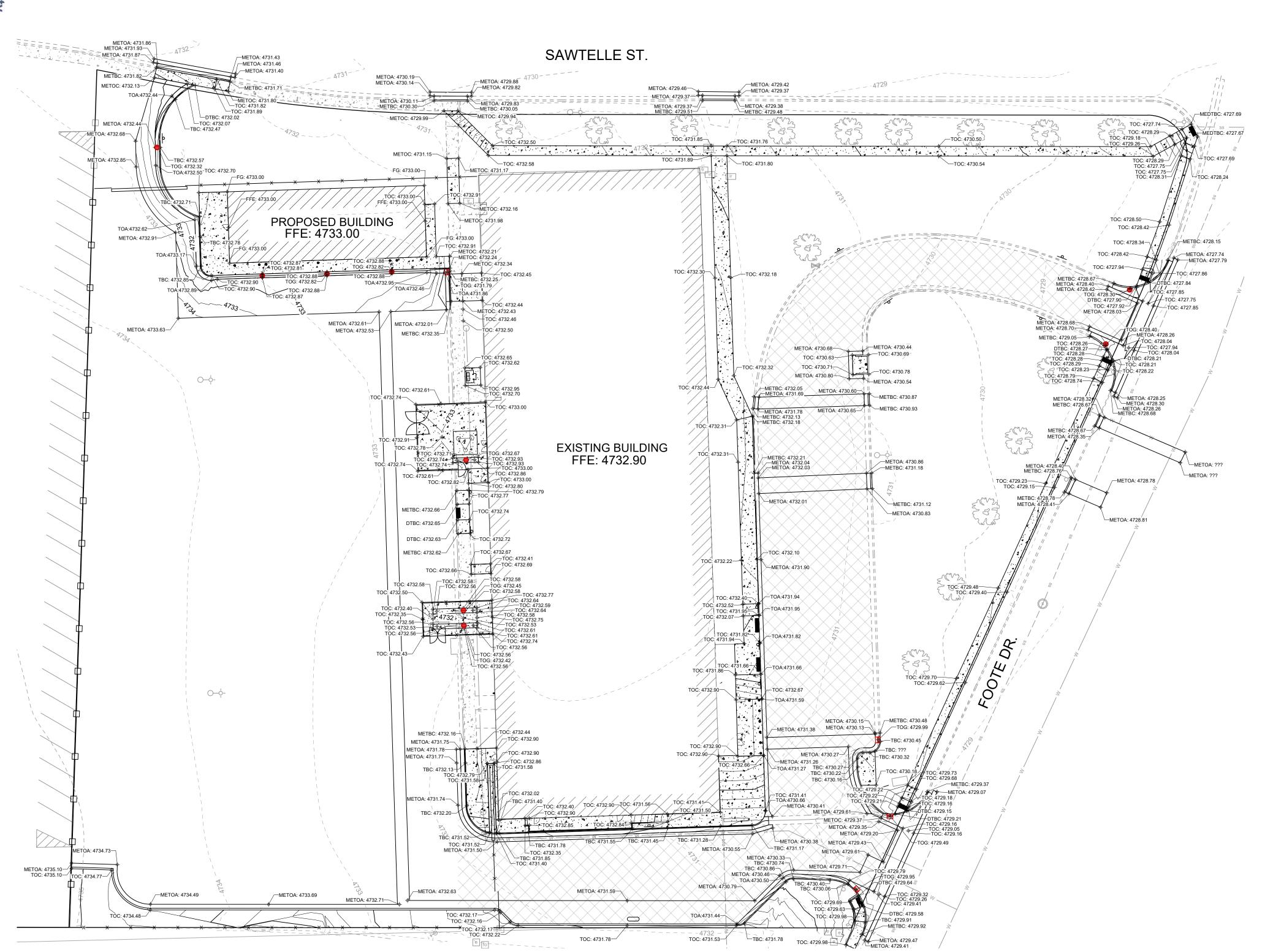
ISTRICT

SITE

H:\!2024\ID-9305-24 NBW ISP District 6 Remodel\Project Data\02 CAD\2.03 Sheet Files\Construction Drawings\C.3.1 SITE PLAN DETAILS.dwg - SITE PLAN DETAILS - 10/04/2024 03:17pm, Nick.Croft

PAGE 6





LEGEND

TOA: TOP OF ASPHALT

METOA: MATCH EXISTING TOP OF ASPHALT

TOC: TOP OF CONCRETE

FG: FINISH GRADE

MEDTBC: MATCH EXISTING DEPRESSED TOP BACK OF CURB

SHEET NOTE

-CONTOURS SHOWN AT 1.0' AND 5.0' INTERVALS -ALL ELEVATIONS ARE FG -NOT ALL LABELS LISTED ABOVE ARE USED

TBC: TOP BACK OF CURB

DTBC: DEPRESSED TOP BACK OF CURB

METBC: MATCH EXISTING TOP BACK CURB

METOC: MATCH EXISTING TOP OF CONCRETE

FFE: FINAL FLOOR ELEVATION

FL: FLOW LINE

TOG: TOP OF GRATE

S 10/04/2024

REVISION
DATE

%66

6 REMODE GRADING DISTRICT ISP

C.4.0

PAGE 7

H:\!2024\ID-9305-24 NBW ISP District 6 Remodel\Project Data\02 CAD\2.03 Sheet Files\Construction Drawings\C.4.0 GRADING PLAN.dwg - GRADING PLAN - 10/04/2024 03:28pm, Nick.Croft

RIM: 4732.17 **76**INV IN: 4727.97 12" (S)

© INV OUT: 4727.87 12" (E)

69LF OF 12" SD @ 0.22% **66**

RIM: 4732.85 INV IN: 4728.22 12" (E) INV OUT: 4728.12 12" (N)

35LF OF 12" SD @ 0.22%

RIM: 4732.81 INV IN: 4728.40 12" (E) INV OUT: 4728.30 12" (W)

66 7LF OF 12" SD @ 0.20%

SAWTELLE ST.

RIM: 4732.19 53 70LF OF 4" SS @ 2.00% 51 INV IN: 4726.62 4" (W) 53 70LF OF 4" SS @ 2.00%

51 70LF OF 4" SS @ 2.00%

SS PLUG - 1 RIM: 4732.55 **54**

RIM: 4732.78 INV IN: 4727.54 12" (S) INV IN: 4727.54 12" (N) INV OUT: 4727.54 12" (E)

27LF OF 12" SD @ 0.40% (66)

30LF OF 12" SD @ 0.40% **(66)**

66 52LF OF 12" SD @ 0.40%

20LF OF 12" SD @ 0.40% **(66)**

RIM: 4731.51 INV IN: 4727.85 12" (W) INV IN: 4727.85 12" (N)

INV OUT: 4724.90 4" (E)

EXISTING BUILDING

± 37,615 SF

STRUCTURE - (41) 53 RIM: 4731.92 INV IN: 4728.02 4" (SW)

53 RIM: 4732.25 INV IN: 4728.71 4" (SW) INV OUT: 4728.71 4" (N)

SD INLET - B RIM: 4731.80 INV OUT: 4728.80 12" (W)

66 29LF OF 12" SD @ 0.22%

SD PLUG - A RIM: 4732.81 INV OUT: 4728.40 12" (W)

66 – 28LF OF 12" SD @ 0.40%

SD PLUG - C RIM: 4731.90 INV OUT: 4727.86 12" (S)

67 INV IN: 4728.06 12" (W) INV IN: 4728.06 12" (N) INV OUT: 4728.06 12" (E)

RIM: 4731.82 INV IN: 4728.46 4" (S) INV OUT: 4728.46 4" (NE)

/ ,4LF OF 4" SS @ 2.00% **51** /

8LF OF 12" SD @ 0.40% **66**

RIM: 4732.19 INV IN: 4728.37 12" (E)

27LF OF 12" SD @ 0.46% **66**

RIM: 4732.23 INV IN: 4728.25 12" (N)

RIM: 4731.89 INV IN: 4728.17 12" (NW)

INV OUT: 4728.25 12" (SE)

INV OUT: 4728.37 12" (S)

33LF OF 12" SD @ 0.22% 66 RIM: 4731.68 54 INV OUT: 4728.80 4" (NE)

SD CATCH BASIN - C RIM: 4732.82 INV IN: 4728.74 12" (E)

INFILTRATOR BASIN 1

RIM: 4732.82 V INV IN: 4728.57 12" (E) INV OUT: 4728.47 12" (W)

RIM: 4731.08 INV IN: 4723.25 4" (W) **53**

RIM: 4731.02 INV IN: 4725.94 12" (S)

66 65LF OF 12" SD @ 0.40%

(INV OUT: 4725.84 12" (NE)

INV IN: 4723.25 4" (W. INV OUT: 4723.25 4" (E)

RIM: 4730.92

. · INV OUT: 4728.40 12" (E)

RIM: 4731.92 INV IN: 4728.32 12" (W)

66 5LF OF 12" SD @ 1.50%

RIM: 4732.16 INV IN: 4727.62 12" (SW)

51 100LF OF 4" SS @ 2.00%

SS CO - 6 RIM: 4730.32 INV IN: 4723.22 4" (W)

172 INFILTRATOR BASIN 2

39LF OF 12" SD @ 0.22% (66)

51 81LF OF 4" SS @ 2.00%

00/E

RIM: 4729.49 INV IN: 4725.61 12" (SW) INV OUT: 4725.51 12" (E)

66 114LF OF 12" SD @ 0.22%

INV OUT: 4726.19 12" (N)

(66)13LF OF 12" SD @ 0.22%

¬ RIM: 4728.95

RIM: 4729.95 INV OUT: 4726.70 12" (NE)

69 INV IN: 4726.42 12" (S)

-/ INV IN: 4727.28 12" (W)

INV OUT: 4726.32 12" (NE)

66 39LF OF 12" SD @ 0.22%

SD INLET - D

RIM: 4729.49 INV IN: 4726.61 12" (SW)

37LF OF 24" SD @ 0.22% (66)_

INV IN: 4725.26 24" (SW) INV OUT: 4725.16 24" (N)

30LF OF 24" SD @ 0.23% 66

SD INLET - G RIM: 4728.29 **76**

\$\$ CO-2 RIM: 4730.11 INV IN: 4721.62 4" (W)

51 27LF OF 4" SS @ 2.00%

INV IN. 4723.22 4 (W)

INV OUT: 4723.22 4 (E)

INV OUT: 4723.22 4 (E)

INV OUT: 4723.22 4 (E)

SS CO - 5 RIM: 4731.32 INV IN: 4725.22 4" (W)

WATER KEYNOTES

- (31) APPROXIMATE). TIE INTO EXISTING WATER SERVICE. TIE-IN POINT TO BE
- OF CONNECTION. INSTALL ANY ADDITIONAL 2" WATER SERVICE PER STD IF - 401B (2022). CAP AND MARK (TO SURFACE) SEE ARCHITECTS PLANS FOR CONTINUATION
- MARK (TO SURFACE) SEE ARCHITECTS PLANS FOR CONTINUATION
- POTABLE & NON-POTABLE VERTICAL LINE CROSSING PER ISPWC SD-407,
 MINIMUM 1.5' VERTICAL SEPARATION MINIMUM 1.5' VERTICAL SEPARATION
- (36) INSTALL 90° 6" DI ELBOW W/ THRUST BLOCK PER ISPWC SD-403
- (37) CONNECT TO EXISTING FIRE SERVICE LINE.

- INSTALL 4" SANITARY SEWER SERVICE PER STD IF-511 (2022), PIPE LENGTH |51| AND SLOPE PER PLANS. INSTALL CAP AND MARK (TO SURFACE) SEE ARCHITECTS PLANS FOR CONTINUATION
- INSTALL CAP AND MARK (TO SURFACE) SEE ARCHITECTS PLANS FOR CONTINUATION

- (67) INSTALL STORM DRAIN TEE, SIZE PER PLAN
- (2010) INSTALL STORM DRAIN CURB CATCH BASIN PER STD IF-604-A
- (71) INSTALL STORM DRAIN MANHOLE PER ISPWC SD-501A

- INSTALL VRF UNIT CONDENSATE DRY WELL PER DETAIL 2 SHEET C.5.1
- (75) INSTALL 48" MANHOLE WITH SLOTTED GRATE PER ISPWC SD-501A.

DRY UTILITY KEY NOTES:

- LOCATION OF PROPOSED TRANSFORMER. SEE ELECTRICAL PLANS FOR DETAILS.
- UNDERGROUND POWER. SEE ELECTRICAL PLANS FOR DETAILS.
- INSTALLATION PRIOR TO CONSTRUCTION WITH INTERMOUNTAIN GAS.

STRUCTURE - (46)

53 RIM: 4729.13 INV IN: 4721.24 4" (W)

STRUCTURE - (17) RIM: 4728.80 INV IN: 4725.08 24" (S)

23LF OF 4" SS @ 2.00% **51**

- POT HOLE TO VERIFY LOCATION OF EXISTING WATER SERVICE (SHOWN BEHIND EXISTING CURB.
- INSTALL 2" COMMERCIAL WATER SERVICE PER STD IF-401B AND IF-401D (32) OPT 4, CAP AND MARK TO SURFACE, SEE ARCHITECTS PLANS FOR CONTINUATION (INCLUDES CURB STOP AND METER PIT)
- RE-ROUTE EXISTING WATER SERVICE AS NEEDED TO UPDATED POINT
- INSTALL 6" FIRE SERVICE WATER LINE PER STD IF-401D (2022). CAP AND

SEWER KEYNOTES

- CONNECT TO EXISTING SANITARY SEWER MAIN. CONTRACTOR TO FIELD VERIFY LOCATION.
- 53 INSTALL SEWER CLEANOUT PER IF 508B (2022)
- 55 INSTALL 45° 4" SDR 35 PVC BEND

STORM DRAIN KEYNOTES

- INSTALL STORM DRAIN PIPE. LENGTH, SIZE AND SLOPE OF PIPE PER PLANS
- 68 INSTALL MARK AND PLUG FOR ROOF DRAIN & BUILDING CONNECTIONS PER DETAIL 1, SHEET C.5.1
- INSTALL STORM DRAIN CLEAN OUT WITH TRAFFIC RATED LID WHEN IN ASPHALT
- INSTALL STORMTECH MC-4500 UNDERGROUND INFILTRATOR BED PER DETAILS AND DIMENSIONS SHOWN
- INSTALL 30" STORM DRAIN CATCH BASIN W/ REINFORCED CONCRETE COLLAR AND CIRCULAR SLOTTED GRATE
- INSTALL 48" MANHOLE WITH SLOTTED GRATE PER ISPWC SD-501A. INCLUDE INVERTED SNOUT PER SHEET C.5.1 DETAIL 3

- PROPOSED GAS METER. SEE MECHANICAL PLANS FOR DETAILS.
- GAS SERVICE (BY OTHERS). LOCATION SHOWN IS APPROXIMATE. COORDINATE

C.5.0

MOD

9

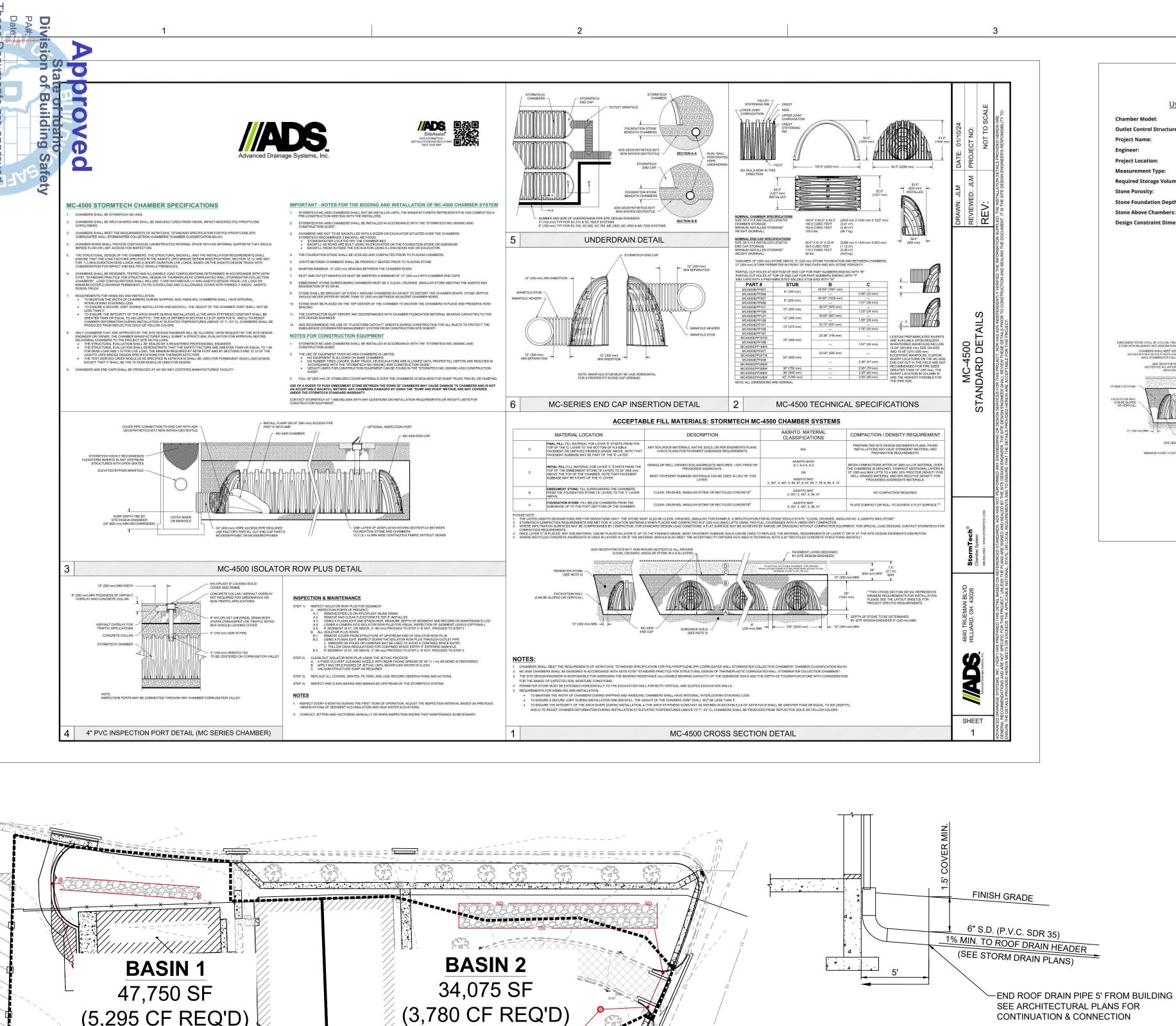
DRAINAG

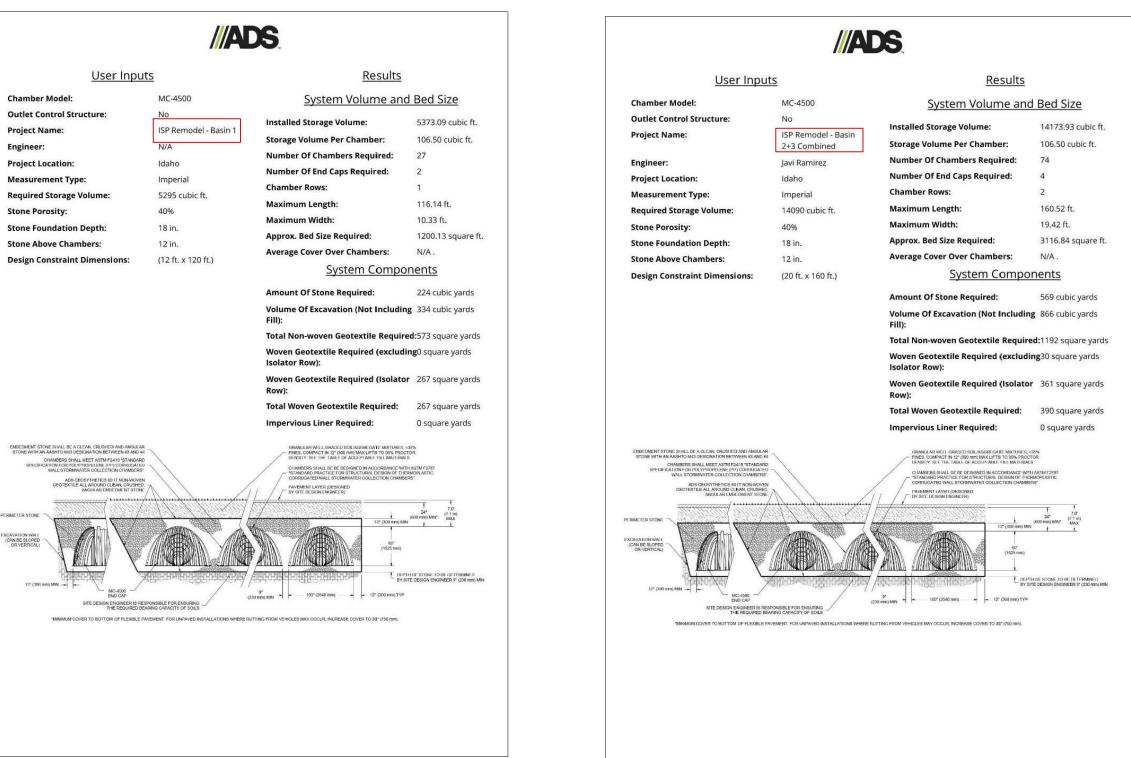
S

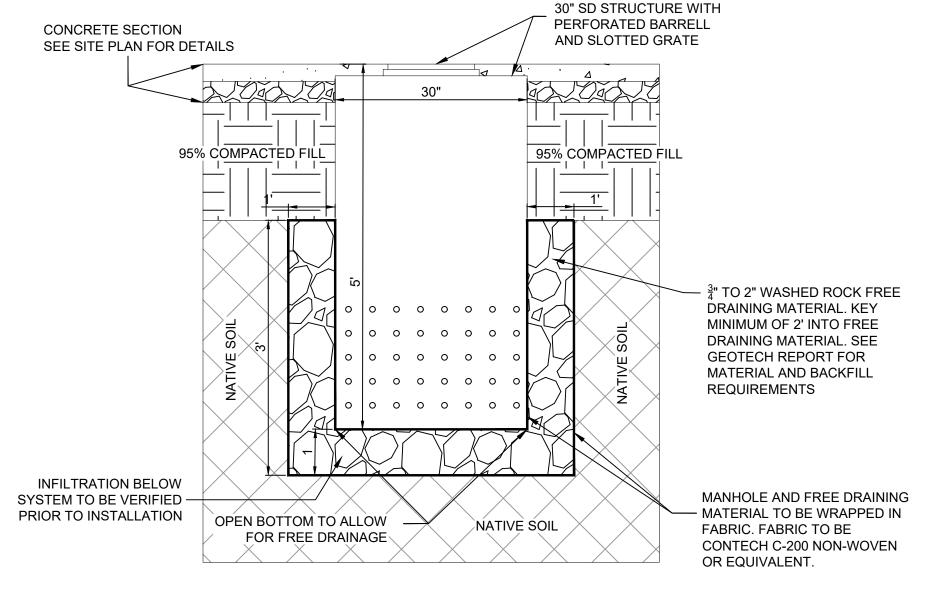
10/04/2024

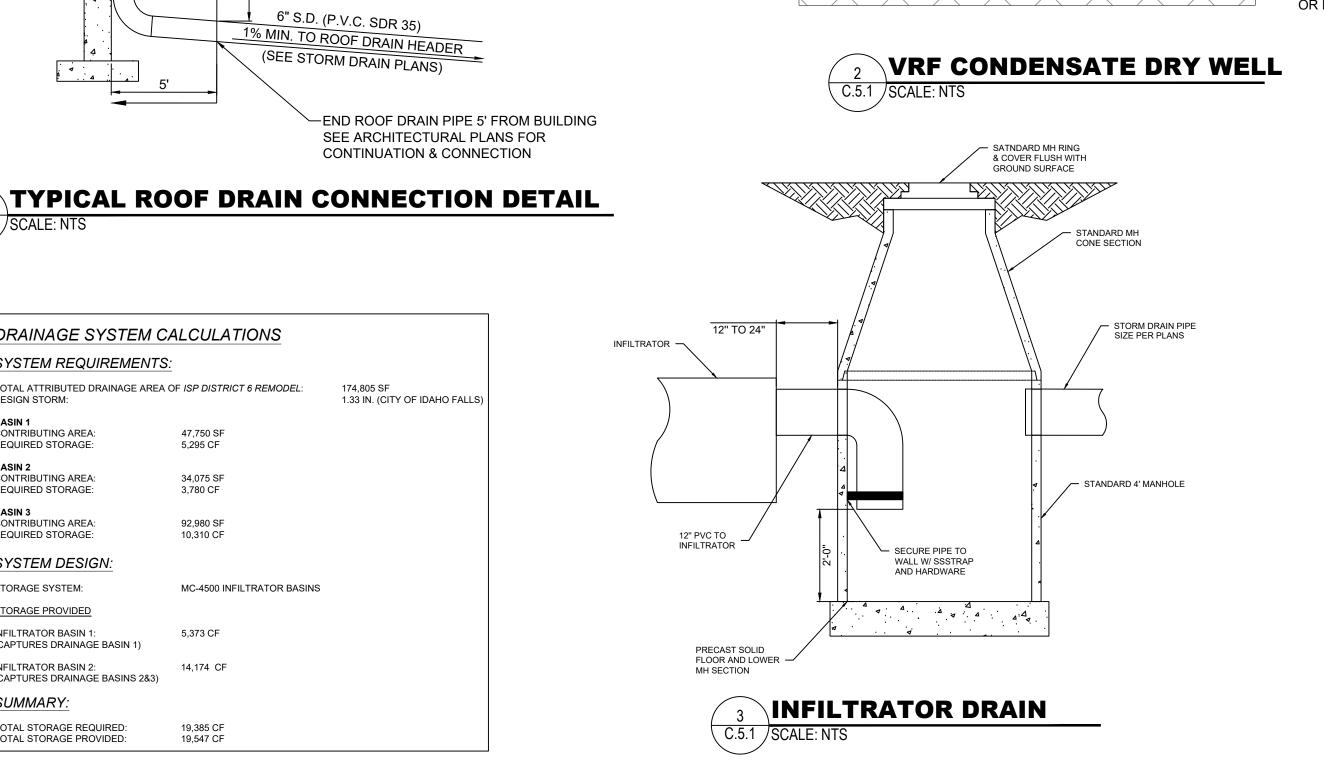
PAGE 8

H:\!2024\ID-9305-24 NBW ISP District 6 Remodel\Project Data\02 CAD\2.03 Sheet Files\Construction Drawings\C.5.0_DRAINAGE & UTILITIES.dwg - DRAINAGE & UTILITIES - 10/21/2024 04:21pm, Nick.Croft









ੜ|(≰|| S

10/04/2024

MOD

<u>S</u>

C.5.1

PAGE 9

H:\!2024\ID-9305-24 NBW ISP District 6 Remodel\Project Data\02 CAD\2.03 Sheet Files\Construction Drawings\C.5.1_DRAINAGE & UTILITIES DETAILS.dwg - DRAINAGE & UTILITIES DETAILS - 10/04/2024 03:19pm, Nick.Croft

(5,295 CF REQ'D)

BASIN 3

92,980 SF

(10,310 CF REQ'D)

SYSTEM DESIGN: STORAGE SYSTEM: MC-4500 INFILTRATOR BASINS STORAGE PROVIDED INFILTRATOR BASIN 1: (CAPTURES DRAINAGE BASIN 1) **INFILTRATOR BASIN 2:** (CAPTURES DRAINAGE BASINS 2&3) SUMMARY TOTAL STORAGE REQUIRED: TOTAL STORAGE PROVIDED:

5,295 CF

34,075 SF

92,980 SF

10,310 CF

3,780 CF

174,805 SF 1.33 IN. (CITY OF IDAHO FALLS)

DRAINAGE SYSTEM CALCULATIONS

TOTAL ATTRIBUTED DRAINAGE AREA OF ISP DISTRICT 6 REMODEL:

SYSTEM REQUIREMENTS:

DESIGN STORM:

BASIN 2

BASIN 3

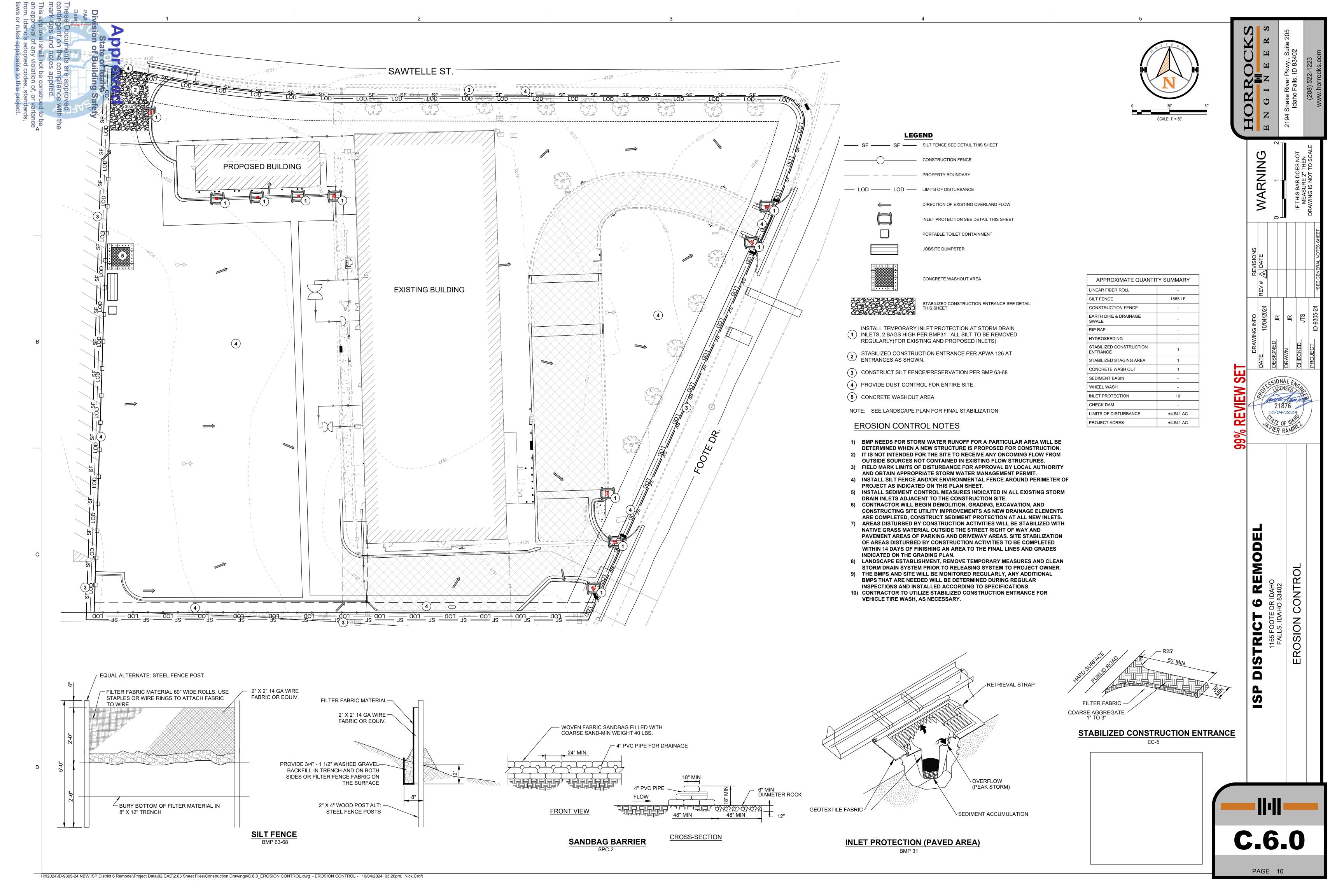
REQUIRED STORAGE:

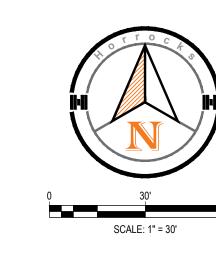
CONTRIBUTING AREA:

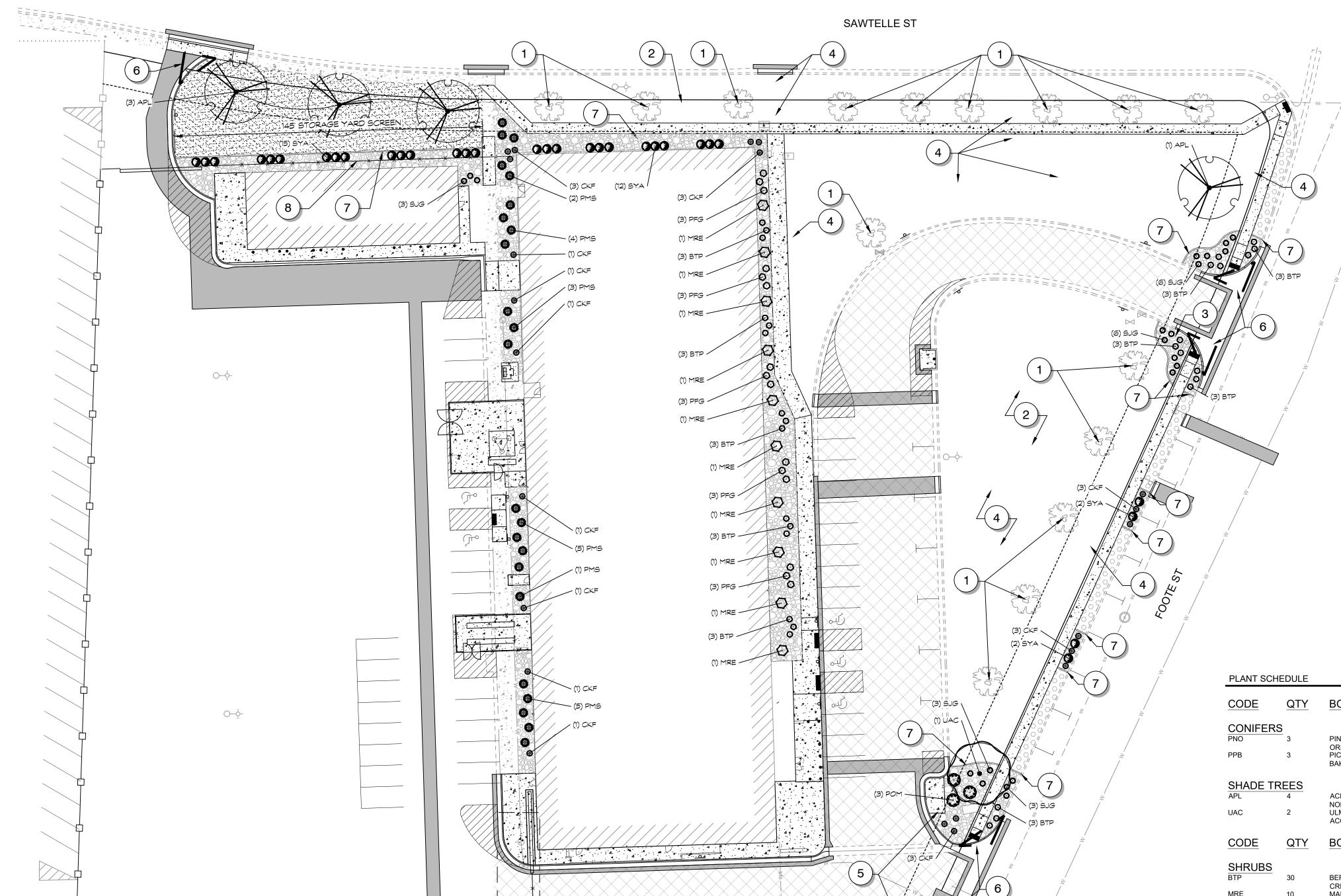
REQUIRED STORAGE:

CONTRIBUTING AREA:

REQUIRED STORAGE:







SAWTELLE ST

GENERAL LANDSCAPE NOTES

- 1. LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR VERIFYING QUANTITIES OF ALL MATERIALS FOR BIDDING AND INSTALLATION PURPOSES. IF DISCREPANCIES EXIST, THE PLAN SHALL DICTATE QUANTITIES TO BE USED.
- 2. PLANT MATERIAL TO BE INSTALLED PER PLANT LEGEND. IF SUBSTITUTIONS ARE WANTED, PROPOSED CHANGES MUST BE SUBMITTED TO THE LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO PLANTING.
- 3. TOPSOIL TO BE IMPLEMENTED AT THE FOLLOWING DEPTHS:
- 3.1. 6" DEPTH IN ALL PLANTER BED AREAS 3.2. 4" DEPTH IN ALL TURF SOD AREAS
- 3.3. 4" DEPTH IN ALL <u>NEW</u> SEED AREAS.
- **3.4.** 2" DEPTH IN ALL RESTORATION AREAS THAT WERE PREVIOUSLY VEGETATED.
- 4. EDGING SHALL BE IMPLEMENTED BETWEEN ALL VARYING LANDSCAPE MATERIALS SUCH AS TURF GRASS AND BARK MULCH, BARK MULCH AND ROCK MULCH, TURF GRASS AND BROADCAST SEED, ETC. EXACT TYPE OF EDGING SHALL BE INDICATED ON THE PLANS. IF NO EDGING IS INDICATED ON THE PLANS A 6" X 6" SLIP FORMED, SQUARE CONCRETE CURB SHALL BE USED.
- 5. LANDSCAPE ROCK AND BARK MULCH COLOR AND TYPE TO BE APPROVED BY OWNER. SUBMIT SAMPLES FOR APPROVAL PRIOR TO INSTALLATION. MULCH MATERIAL SHALL BE IMPLEMENTED IN ALL PLANTER BED AREAS INDICATED ON THE PLANS AT THE FOLLOWING DEPTHS:
- 5.1. 1-2" DIAMETER FRACTURED STONE : 4"
- 5.2. 2-4" DIAMETER FRACTURED STONE: 4" 5.3. STONE LARGER THAN 4" IN DIAMETER: DEPTH SHALL BE TWICE THE DIAMETER OF THE SMALLEST STONE IN THE SPECIFIED GRADATION.
- **5.4.** 1-2" COBBLE MULCH: 4" **5.5.** 4-6" COBBLE MULCH: 6"
- 5.6. PULL MULCH MIN. OF 3" AWAY FROM BASE OF ALL PERENNIALS AND SHRUBS AND MIN. 6" AWAY FROM ALL TREES.
- 6. INSTALLATION SHALL COMPLY WITH ALL NATIONAL, STATE AND LOCAL LAWS AND ORDINANCES.
- 7. ALL MATERIALS SHALL BE NEW AND WITHOUT FLAWS OR DEFECTS OF THE QUALITY AND PERFORMANCE SPECIFIED, AND SHALL MEET THE REQUIREMENTS OF THIS SYSTEM. USE MATERIALS AS SPECIFIED, NO SUBSTITUTIONS SHALL BE PERMITTED WITHOUT WRITTEN PERMISSION OF THE OWNER OR LANDSCAPE ARCHITECT
- 8. BASE PLAN & LOCATION OF EXISTING EQUIPMENT ARE SCHEMATIC IN NATURE. FIELD VERIFY ALL BASE & EXISTING ELEMENTS PRIOR TO CONSTRUCTION & PROVIDE NECESSARY ADJUSTMENTS.
- 9. ALL PLANTS SHALL BE WATERED THOROUGHLY TWICE DURING THE FIRST 24 HOUR PERIOD AFTER PLANTING. ALL PLANTS SHALL THEN BE WATERED ON A REGULAR SCHEDULE DURING THE FIRST GROWING SEASON.
- 10. THE CONTRACTOR SHALL WARRANTY ALL PLANT MATERIAL FOR ONE-YEAR AFTER DATE OF FINAL ACCEPTANCE.
- 11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION AND AVOIDANCE OF ALL UNDERGROUND UTILITIES DURING THE INSTALLATION OF LANDSCAPE AND IRRIGATION ELEMENTS. SHOULD ANY DAMAGE OCCUR TO UNDERGROUND UTILITIES THE CONTRACTOR SHALL REPLACE OR REPAIR THE DAMAGE AT NO ADDITIONAL COST TO THE OWNER.

SECTION 11-4-4 LANDSCAPING, BUFFERS, AND SCREENING	REQUIRED	PROVIDED	
MINIMUM LANDSCAPE REQUIREMENTS (% OF TOTAL LOT AREA)	20% (40,558 S.F.)	27% (55,381 S.F.)	
202,788 S.F. (TOTAL LOT AREA) x 20% = 40,558 S.F.	120% (40,556 S.F.)	21 /0 (99,901 S.F.)	
MINIMUM LANDSCAPED SETBACK CONTIGUOUS TO A STREET (IN WIDTH)	15' LANDSCAPE BUFFER	MIN. 15' LANDSCAPE BUFFER	
COMMERCIAL AND MULTI-UNIT RESIDENTIAL MINIMUM LANDSCAPED BUFFER FROM CONTIGUOUS SINGLE-UNIT RESIDENTIAL ZONES AND USES	N/A (NO RES. ADJACENCY)	N/A	
TREES WITHIN MINUMUM LANDSCAPED SETBACK CONTIGUOUS TO A STREET SHALL BE SPACED AT NO MORE THAN FOURTY-FOOT (40') CENTERS. TREES SHALL BE MINIMUM OF TWO-INCH (2") CALIPER.			
FOOTE ST: 326 LINEAR FT / 40 = 8 TREES	8 STREET TREES	8 STREET TREES	
SAWTELLE ST: 486 LINEAR FT / 40 = 12 TREES	12 STREET TREES	12 STREET TREES	
MINIMUM ONE (1) TREE PER 5,000 S.F. OF REQUIRED INTERNAL LANDSCAPE AREA	6 SITE TREES	7 SITE TREES	
29,452 S.F. (REQUIRED LANDSCAPE AREA) / 5,000 S.F. = 6 TREES	O SITE TIVELS		
MINIMUM TWO (2) SHRUBS PER EACH REQUIRED INTERNAL TREE	12 SITE SHRUBS	163 SITE SHRUBS	
6 (REQUIRED LANDSCAPE TREES) x 2 = 12 SHRUBS	12 SHE SHROBS	100 SHE SHROBS	
OPEN STORAGE AREAS WITHIN 30' OF THE RIGHT-OF-WAY SHALL BE SCREENED WITH A MINIMUM 10'-WIDE PLANTING STRIP WITH TREES, GROUNDCOVER, AND OPAQUE FENCE AT LEAST SIX FEET (6') IN HEIGHT.	145 LINEAR FT	145 LINEAR FT	

PLANT SCHEDULE						
CODE	QTY	BOTANICAL / COMMON NAME	SIZE	CAL.		
CONIFERS PNO PPB	3	PINUS NIGRA 'OREGON GREEN' OREGON GREEN AUSTRIAN PINE PICEA PUNGENS 'BAKERI' BAKERI SPRUCE	B&B B&B	6`-7` HT 6`-7` HT		
SHADE TRI APL UAC	<u>EES</u> 4	ACER PLATANOIDES NORWAY MAPLE ULMUS X 'ACCOLADE' ACCOLADE ELM	B&B B&B	2" 2"		
CODE	QTY	BOTANICAL / COMMON NAME	SIZE			
SHRUBS BTP MRE PFG PMS POM SJG	30 10 15 23 3 26	BERBERIS THUNBERGII 'CRIMSON PYGMY' CRIMSON PYGMY JAPANESE BARBERRY MAHONIA REPENS CREEPING MAHONIA POTENTILLA FRUTICOSA 'GOLD DROP' GOLD DROP BUSH CINQUEFOIL PINUS MUGO 'SLOWMOUND' SLOWMOUND MUGO PINE PHYSOCARPUS OPULIFOLIUS 'MONLO' DIABOLO NINEBARK SPIRAEA JAPONICA 'GOLDFLAME' GOLDFLAME JAPANESE SPIREA	2 GAL			
ANNUALS/PERENNIALS						
SYA	31	SALVÍA YANGII RUSSIAN SAGE	1 GAL			
ORNAMEN [*] CKF	TAL GRA ²⁵	SSES CALAMAGROSTIS X ACUTIFLORA 'KARL FOERSTER' FEATHER REED GRASS	1 GAL			
SYMBOL	QTY	BOTANICAL / COMMON NAME	SIZE			
SOD/SEED F 284 SE POA PRATENSIS SOD						
	5 294 SE	FUA FINATEINOIO	COD			

REFERENCE NOTES SCHEDULE					
SYMBOL	DESCRIPTION	QTY			
1	EXISTING TREES, TO BE PRESERVED AND PROTECTED (SEE DETAIL 1/L.2.0)				
(2)	EXISTING LANDSCAPING, TO BE PRESERVED AND PROTECTED				
(3)	EXISTING IRRIGATION BACKFLOW PREVENTER, TO BE PROTECTED AND PRESERVED.				
4	REPAIR AND REPLACE SOD GRASS (TO MATCH EXISTING) IN DISTRUBED AREAS				
5	EXISTING TREES AND EVERGREEN SHRUBS TO BE REMOVED AND HAULED OFF. BACKFILL AND COVER WITH WEED BARRIER AND RIVER ROCK (PER DETAILS) TO MATCH EXISTING.				
6	15' X 15' VISIBILITY TRIANGLE				
$\overline{7}$	6" X 6" CONCRETE MOWCURB	276 LF			
8	6' HT OPAQUE FENCE (REF. ARCH.)				
	4" DEPTH OF 1-2" WASHED, RAINBOW RIVER ROCK.	120 CY			
	4" DEPTH OF 4-6" RAINBOW RIVER COBBLE	70.2 CY			



%66

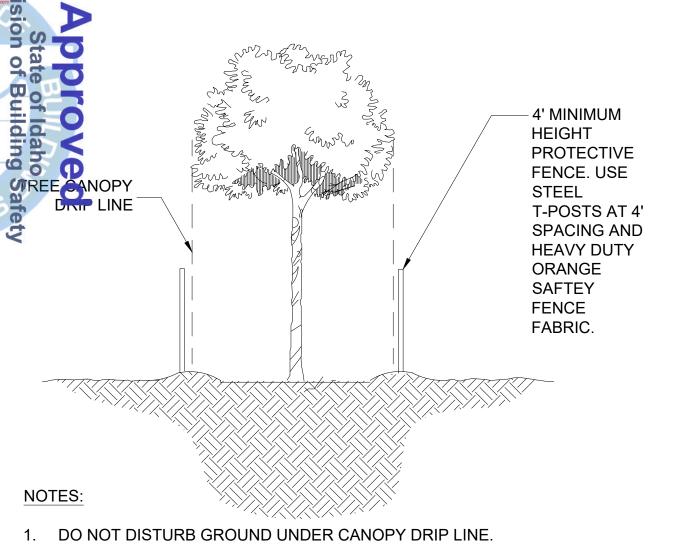
6 REMODE LANDSCAPE

DISTRICT SP

L.1.0

H:\!2024\ID-9305-24 NBW ISP District 6 Remodel\Project Data\02 CAD\2.03 Sheet Files\Construction Drawings\L.1.0 LANDSCAPE PLAN.dwg - LANDSCAPE PLAN - 10/16/2024 04:18pm, kendall.hancey

5,284 SF POA PRATENSIS KENTUCKY BLUEGRASS



- 2. DO NOT PLACE FILL IN AREA UNDER THE CANOPY DRIP LINE.
- 3. MAINTAIN FENCE THROUGHOUT CONSTRUCTION.

TREE PROTECTION

TOPSOIL

TAPER DOWN DEPTH-

OF PLANT

AREA

MULCH-

PLANTING SOIL-

OF MULCH AT CROWN

PREPARED PLANTING-

LAYING OF TURF SOD.

NOTES:

INSTALL GRASS /

EVEN WITH FINISH

GRADE AND KEEP

BASE OF PLANT

MULCH AWAY FROM

CONSTRUCT 2-3" TALL

EDGE OF PLANTING PIT

- SCARIFY SIDES OF

PLANTING HOLE

WATERING RING AROUND

PERENNIAL ROOT BALL

CLEAN TOPSOIL, IMPORTED OR

PLANTING DETAILS

1. LANDSCAPE CONTRACTOR SHALL CONFIRM SUBBASE FINISH GRADE WITH

GRADE AT THE CORRECT LEVEL TO ACCOMMODATE TURFGRASS OR

SETTLING OF TOPSOIL AND SUB-GRADE PRIOR TO PLANTING, SEEDING, OR

GENERAL CONTRACTOR PRIOR TO INSTALLATION OF TOPSOIL

MULCH AND STILL BE $\frac{1}{2}$ "BELOW ADJACENT HARDSCAPES.

2. LANDSCAPE CONTRACTOR RESPONSIBLE TO LEAVE TOPSOIL FINISH

3. LANDSCAPE CONTRACTOR RESPONSIBLE TO COMPACT AND ALLOW

STOCKPILED. DEPTH PER PLANS AND

UNDISTURBED SUBGRADE

MIX LOWER 2" OF

TILL UPPER 6" OF

SUBGRADE PRIOR

TO INSTALLATION

OF TOPSOIL

TOPSOIL AND

UPPER 2" OF

SUB-GRADE.

TILLED

- FLEX STRAP™ TREE TIE. NOTES: TIGHTEN ONLY ENOUGH TO KEEP RUBBER STRAP FROM PLANT PIT SLIPPING. DEPTH TO BE 1" LESS FOR FLAT AREAS PLACE THAN STAKES PARALLEL TO ROOTBALL PREVAILING WINDS. DEPTH. FOR SLOPE AREAS PLACE CROWN STAKES PARALLEL TO **BOTTOM OF** CONTOUR. PIT SO THAT LODGEPOLE PINE STAKES TREE WILL 2" DIAMETER SIT AT 3" **ABOVE** -6" TALL BERM TO MAKE GRADE. WATER BASIN. MULCH PER PLANS UNDISTURBED NATIVE OR COMPACTED **IMPORT** HOLE DIRECTLY UNDER COMPACTED ROOTBALL CUT CIRCLED AND MATTED **ROOTS FROM NURSERY DECIDUOUS TREE ROOTBALL**

REMOVE NURSERY STAKE & PREPARED PLANTING AREA SCARIFY SIDES OF PLANTING PLANTING SOIL FIRM BUT NOT

H-PLT-TR-27

EVERGREEN TREE PER PLAN, REMOVE NURSERY STAKE IMMEDIATELY. 1 GALVANIZED VINYL COATED GUY WIRES WITH TURN BUCKLES FOR ADJUSTMENT. ARRANGE IN A TRIANGULAR PATTERN AROUND TREE. WONDER CINCH TIES. ROOTBALL, SCORE SIDES WITH VERTICAL CUTS 1/2" DEEP AT 6" O.C., SET TOP OF ROOTBALL FLUSH WITH OR SLIGHTLY ABOVE FINISH GRADE, PLACE ON UNDISTURBED SOIL. GRANITE, ROCK, MULCH, GRASS OR OTHER GROUND COVER PER PLANS. DO NOT ALLOW TO TOUCH TRUNK. TILL SOIL TO A DEPTH EQUAL TO THE ROOTBALL DEPTH, REMOVE ROCKS LARGER THAN 2" DIA., ADD AMENDMENTS PER SOIL PREPARATION SPECIFICATIONS, UNDISTURBED SOIL TO HAVE SLOPING ROUGH SIDES.

1. KEEP TOP OF DECORATIVE ROCK 1/2" BELOW ADJACENT WALKS AND

2. CONTRACTOR TO ENSURE THAT TOP OF WEED BARRIER FABRIC IS

FREE OF SOILS AND DEBRIS PRIOR TO PLACING MULCH.

3. ROCK/STONE MULCH COLOR AND SIZE PER LEGEND AND

CURBS. DO NOT ALLOW MULCH TO TOUCH THE TRUNK OF ANY PLANT.

INSTALL MULCH AFTER INSTALLATION OF WEED BARRIER FABRIC AND

CONIFER TREE

PLANT MATERIAL

SPECIFICATIONS.

H-PLT-TR-21

ADJACENT

EDGING.

HARDSCAPE OR

BOULDER, IF APPLICABLE

DECORATIVE LANDSCAPE

PER NOTES AND LEGENDS.

ROCK. TYPE AND DEPTH

EXISTING SUBGRADE

DEWITT 5OZ WEED

APPROVED EQUAL

BARRIER OR OWNER

NOTES:

INSTALL SHRUB TAPER DOWN **ROOT BALL EVEN DEPTH OF** WITH FINISH MULCH AT **GRADE AND KEEP CROWN OF MULCH AWAY** PLANT FROM BASE OF PLANTING SOIL PLANT **EXISTING CONSTRUCT 2-3"** SUBGRADE TALL WATERING MULCH -RING AROUND EDGE OF PLANTING PIT SCARIFY SIDES OF PLANTING HOLE 2 X ROOTBALL

1. EXCAVATE SHRUB PITS AS ROUND PLANTING HOLES.

SHRUB AND PERENNIAL

2. LANDSCAPE ARCHITECT OR OWNER'S REPRESENTATIVE SHALL APPROVE PLANT MATERIAL HEALTH AND CONDITION PRIOR TO PLANTING.

DIAMETER

H-PLT-SHR-26

NOTES:

1. EXCAVATE ORNAMENTAL GRASS/PERENNIAL PITS AS ROUND HOLES.

2 X CONTAINER

DIAMETER

ORNAMENTAL GRASS

SEE PLAN. SOD ROOT AREA TOPSOIL. WWWWWWWWWWWW **CROSS RIP OR TILL** SUBGRADE.

NOTES:

1. ROOT MAT THICKNESS WILL VARY ENSURE TOP OF ROOT MAT IS 1" BELOW TOP OF CURB, WALK, OR EDGING. ADJUST DEPTHS AND DIMENSIONS SHOWN AS NECESSARY.

2. SOD SHALL BE 100% KENTUCKY BLUEGRASS OR BIO GRASS BIO-NATIVE AS SPECIFIED ON PLANS.

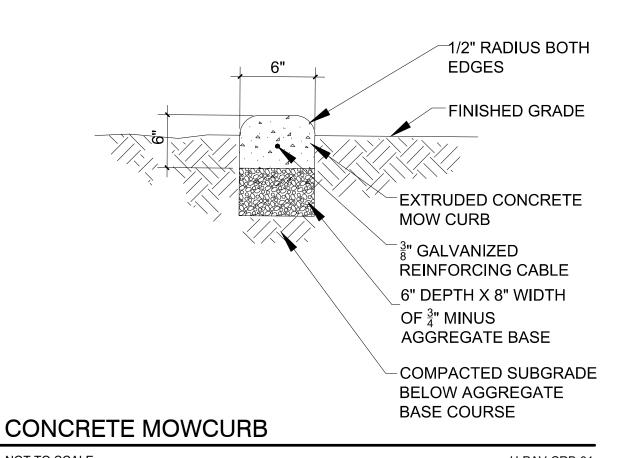
DECORATIVE LANDSCAPE ROCK

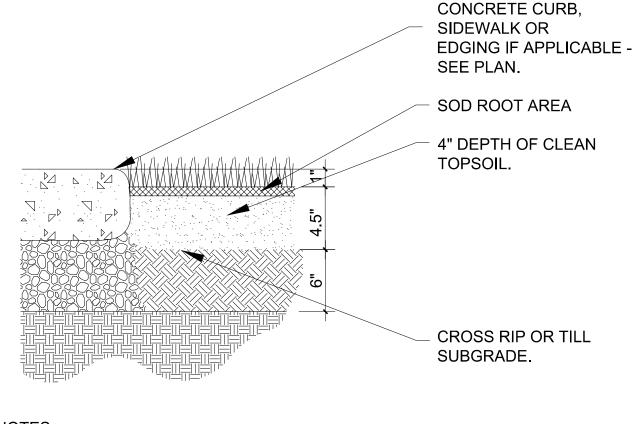
NOTES:

NOTES:

1. WHEN INSTALLING CONCRETE MOWCURB FOR CURVED PLANTER BEDS MAKE

SURE THAT CURVES ARE SMOOTH AND EVEN. 2. LANDSCAPE ARCHTIECT TO APPROVE PRIOR TO BACKFILL.





H-PLT-GRS-29

H-PAV-MLC-22

L.2.0

PAGE

%6 REMOD 6 CAP TRIC ANDS(<u>S</u>

WARNING

||||

S

H-PAV-CRB-31

SITE WORK

EXAMINATION A. SITE VERIFICATION OF CONDITIONS

1. 48 HOURS MINIMUM PRIOR TO PERFORMING ANY WORK ON SITE, CONTACT IDAHO DIGLINE OR OTHER LOCALLY RECOGNIZED AND REPUTABLE UNDERGROUND UTILITY LOCATOR SERVICE COMPANY TO ARRANGE FOR UTILITY LOCATION

POTHOLE TO VERIFY LOCATION OF EXISTING VARIOUS UNDERGROUND FACILITIES AT SUFFICIENT LOCATIONS TO ASSURE THAT NO CONFLICT WITH THE PROPOSED WORK EXISTS AND SUFFICIENT CLEARANCE IS AVAILABLE TO AVOID DAMAGE TO EXISTING FACILITIES. PERFORM POTHOLING AT LEAST 10 WORKING DAYS IN ADVANCE OF PERFORMING

ANY EXCAVATION OR UNDERGROUND WORK. UPON DISCOVERY OF CONFLICTS OR PROBLEMS WITH EXISTING FACILITIES, NOTIFY ARCHITECT BY PHONE OF FAX WITHIN 24 HOURS, FOLLOW TELEPHONE OR FAX NOTIFICATION WITH LETTER AND DIAGRAMS INDICATING CONFLICT OR PROBLEM AND SUFFICIENT MEASUREMENTS AND DETAILS TO EVALUATE

B. PROTECTION

1. AVOID SPILLAGE BY COVERING AND SECURING LOADS WHEN HAULING ON OR ADJACENT TO PUBLIC STREETS OR HIGHWAYS. 2. REMOVE SPILLAGE AND SWEEP, WASH, OR OTHERWISE CLEAN PROJECT, STREETS, AND HIGHWAYS.

DUST CONTROL-3.1. TAKE PRECAUTIONS NECESSARY TO PREVENT DUST NUISANCE, BOTH ON-SITE AND ADJACENT TO PUBLIC AND PRIVATE PROPERTIES. 3.2. CORRECT OR REPAIR DAMAGE CAUSED BY DUST.

EROSION CONTROL-TAKE PRECAUTIONS NECESSARY TO PREVENT EROSION AND 3.3.1. TRANSPORTATION OF SOIL DOWNSTREAM, TO ADJACENT PROPERTIES, AND INTO ON-SITE OR OFF-SITE DRAINAGE SYSTEMS. DEVELOP, INSTALL AND MAINTAIN AN EROSION CONTROL PLAN IF

REPAIR AND CORRECT DAMAGE CAUSED BY EROSION.

C. IF SPECIFIED PRECAUTIONS ARE NOT TAKEN OR CORRECTIONS AND REPAIRS MADE PROMPTLY, OWNER MAY TAKE SUCH STEPS AS MAY BE DEEMED NECESSARY AND DEDUCT COSTS OF SUCH FROM MONIES DUE TO CONTRACTOR, SUCH ACTION OR LACK OF ACTION ON OWNER'S PAR DOES NOT RELIEVE CONTRACTOR FROM RESPONSIBILITY FOR PROPER PROTECTION OF THE WORK.

ADJUST EXISTING COVERS, BOXES, AND VAULTS TO GRADE.

REPLACE BROKEN OR DAMAGED COVERS, BOXES AND VAULTS. INDEPENDENTLY CONFIRM SIZE, LOCATION, AND NUMBER OF COVERS, BOXES AND VAULTS WHICH REQUIRE ADJUSTMENT.

D. FIELD QUALITY CONTROL

1. IF WORK HAS BEEN INTERRUPTED BY WEATHER, SCHEDULING, OR OTHER REASON NOTIFY ARCHITECT 24 HOURS MINIMUM PRIOR TO INTENDED RESUMPTION OF GRADING OR COMPACTING.

2. OWNER RESERVES THE RIGHT TO REQUIRE ADDITIONAL TESTING TO RE-AFFIRM SUITABILITY OF COMPLETED WORK INCLUDING COMPACTING SOILS WHICH HAVE BEEN EXPOSED TO ADVERSE WEATHER CONDITIONS.

LANDSCAPE FINISH GRADING

SUMMARY

A. INCLUDES BUT NOT LIMITED TO

1. PERFORM FINISH GRADING WORK REQUIRED TO PREPARE SITE FOR INSTALLATION OF LANDSCAPING AS DESCRIBED IN CONTRACT DOCUMENTS

A. IMPORTED TOPSOIL TO MEET THE FOLLOWING CRITERIA: 1. FERTILE, LOOSE, FRIABLE SOIL MEETING FOLLOWING CRITERIA CHEMICAL CHARACTERISTICS-

1.1.1. ACIDITY/ALKALINITY RANGE - PH 5.5 TO 7.7 SOLUBLE SALTS - LESS THAN 2.0 MMHOS/CM

SODIUM ABSORPTION RATIO (SAR) - LESS THAN 3.0 ORGANIC MATTER - GREATER THAN ONE PERCENT PHYSICAL CHARACTERISTICS-

GRADATION AS DEFINED BY USDA TRIANGLE OF PHYSICAL CHARACTERISTICS 1.2.1. AS MEASURED BY HYDROMETER. SAND - 15 TO 60 PERCENT SILT - 10 TO 60 PERCENT CLAY - 5 TO 30 PERCENT

CLEAN AND FREE FROM TOXIC MINERALS AND CHEMICALS. NOXIOUS WEEDS. ROCKS LARGER THAN $1\frac{1}{2}$ INCH IN ANY DIMENSION, AND OTHER OBJECTIONABLE MATERIALS.

SOIL SHALL NOT CONTAIN MORE THAN 2 PERCENT OF PARTICLES MEASURING VER 2.0 MM IN LARGEST SIZE

PREPARATION

A. PRIOR TO GRADING, DIG OUT WEEDS FROM PLANTING AREAS BY THEIR ROOTS AND REMOVE FROM SITE. BEFORE PLACING TOP SOIL IN LANDSCAPE AREAS, REMOVE ROCKS LARGER THAN 1 INCH IN SIZE AND FOREIGN MATTER SUCH AS BUILDING RUBBLE WIRE

CANS. STICKS. CONCRETE. ETC. B. PRIOR TO PLACING TOPSOIL, REMOVE ANY IMPORTED BASE MATERIAL PRESENT IN PLANTING AREAS DOWN TO NATURAL SUBGRADE OR OTHER MATERIAL ACCEPTABLE TO

PERFORMANCE

A. SITE TOLERANCES 1. TOTAL TOPSOIL DEPTH-

LAWN PLANTING AREAS - 4 INCHES MINIMUM SHRUB & GROUNDCOVER PLANTING AREAS - 12 INCHES MINIMUM HROUGHOUT ENTIRE SHRUB BED AREA. 2. ELEVATION OF TOPSOIL RELATIVE TO WALKS, CURBS OR OTHER PAVEMENTS BEFORE PLANTING AND AFTER ADDITION OF SOIL AMENDMENTS

SODDED LAWN AREAS - 2 INCHES BELOW SHRUB & GROUNDCOVER AREAS - 2 INCHES BELOW B. DO NOT EXPOSE OR DAMAGE EXISTING SHRUB OR TREE ROOTS.

C. DISTRIBUTE IMPORTED TOPSOIL REQUIRED TO BRING SURFACE TO SPECIFIED ELEVATION RELATIVE TO WALK OR CURB.

SLOPE GRADE AWAY FROM BUILDING FOR 12 FEET MINIMUM FROM WALLS AT SLOPE OF \$ INCH PER FT MINIMUM UNLESS OTHERWISE NOTED. HIGH POINT OF FINISH GRADE AT BUILDING FOUNDATION SHALL BE 6 INCHES MINIMUM BELOW FINISH FLOOR LEVEL. DIRECT SURFACE DRAINAGE IN MANNER INDICATED ON DRAWINGS BY MOLDING SURFACE TO FACILITATE NATURAL RUN OFF OF WATER. FILL LOW SPOTS AND POCKETS WITH TOP SOIL AND GRADE TO DRAIN PROPERLY.

IRRIGATION SYSTEMS

A. THIS SECTION INCLUDES PIPING, VALVES, SPRINKLERS, LAWN SPRINKLER SPECIALTIES,

SYSTEM DESCRIPTION

A. PROVIDE UNDERGROUND IRRIGATION SYSTEM DESIGN AND INSTALLATION AS REQUIRED FOR ALL LANDSCAPING. DESIGN SYSTEM AS REQUIRED TO ACHIEVE FULL, EVEN COVERAGE

B. CONTRACTOR SHALL VERIFY AVAILABLE PRESSURE (PSI) AND FLOW (GPM).

WITHOUT SPRAYING ONTO BUILDINGS, SIDEWALKS, FENCES, ETC.

A. CIRCUIT PIPING: DOWNSTREAM FROM CONTROL VALVES TO SPRINKLERS, SPECIALTIES, AND DRAIN VALVES. PIPING IS UNDER PRESSURE DURING FLOV

B. DRAIN PIPING: DOWNSTREAM FROM CIRCUIT-PIPING DRAIN VALVES. PIPING IS NOT UNDER PRESSURE.

C. IRRIGATION MAIN PIPING: DOWNSTREAM FROM POINT OF CONNECTION TO WATER DISTRIBUTION PIPING TO INCLUDING CONTROL VALVES PIPING IS UNDER WATER

DISTRIBUTION SYSTEM PRESSURE. SYSTEM PERFORMANCE REQUIREMENTS

A. MINIMUM WATER COVERAGE: 100 PERCENT OF TURF AND PANTING AREAS. B. LOCATION OF SPRINKLERS AND SPECIALTIES: DESIGN LOCATION WILL BE APPROXIMATE MADE MINOR ADJUSTMENTS NECESSARY TO AVOID PLANTINGS AND OBSTRUCTIONS SUCH AS SIGNS AND LIGHT STANDARDS C. MINIMUM WORKING PRESSURES: THE FOLLOWING ARE MINIMUM PRESSURE REQUIREMENTS

FOR PIPING, VALVES, AND SPECIALTIES, UNLESS OTHERWISE INDICATED: 1. IRRIGATION MAIN PIPING: 200 PSIG 1380 KPA. 2. CIRCUIT PIPING: 150 PSIG 1035 KPA.

H:\!2024\ID-9305-24 NBW ISP District 6 Remodel\Project Data\02 CAD\2.03 Sheet Files\Construction Drawings\L.1.0 LANDSCAPE PLAN.dwg - IRRIGATION SPECS - 10/16/2024 04:20pm, kendall.hancey

GUARANTEE

SUBMIT 1-YEAR WRITTEN GUARANTEE SIGNED BY UNDERGROUND SPRINKLER CONTRACTOR, AGREEING TO REPAIR OR REPLACE ALL DEFECTS IN MATERIAL, FOLIPMENT AND WORKMANSHIP

B. GUARANTEE SHALL ALSO COVER REPAIR OF DAMAGE TO ANY PART OF THE PREMISES RESULTING FROM LEAKS OR OTHER DEFECTS IN MATERIAL, EQUIPMENT AND WORKMANSHIP TO THE SATISFACTION OF THE OWNER. REPAIRS, IF REQUIRED, SHALL BE DONE PROMPTLY AT NO COST TO THE OWNER.

A. PRODUCT DATA: INCLUDE PRESSURE RATING, RATED CAPACITY, SETTINGS, AND ELECTRICAL DATA OF SELECTED MODELS FOR THE FOLLOWING: 1. VALVES: INCLUDE ABOVEGROUND AND UNDERGROUND; GENERAL-DUTY, MANUAL AND AUTOMATIC CONTROL, AND QUICK-COUPLER TYPES.

> 3. SPRINKLERS 4. SPECIALTIES

VALVE BOXES.

5. CONTROLLERS. INCLUDE WIRING DIAGRAMS.

B. SHOP DRAWINGS: COMPLETE IRRIGATION DESIGN. SHOW IRRIGATION PIPING, INCLUDING PLAN LAYOUT AND LOCATIONS, TYPES SIZES CAPACITIES, AND FLOW CHARACTERISTICS OF PIPING AND PIPE COMPONENTS, VALVES, SPRINKLERS, ROTORS AND DRIP SYSTEMS. LIGHTING PROTECTION, ACCESSORIES SUCH AS AIR RELIEF VALVE. DRAINS ETC AND IRRIGATION CONTOLLER(S) AND CONTROLLER WIRING. SHOW AREAS OF SPRINKLER SPRAY AND OVERSPRAY

COORDINATION DRAWINGS: SHOW PIPING AND MAJOR SYSTEM COMPONENTS, INDICATE INTERFACE AND SPATIAL RELATIONSHIP BETWEEN PIPING, SYSTEM

COMPONENTS, ADJACENT UTILITIES, AND PROXIMATE STRUCTURES. D. MAINTENANCE DATA: TO INCLUDE IN MAINTENANCE MANUALS SPECIFIED IN DIVISION 1. INCLUDE DATA FOR THE FOLLOWING

> 1. SUBMIT THREE (3) COPIES OF TYPEWRITTEN INSTRUCTIONS, BOUND IN SUITABLE SIZED RING BINDERS, RECOMMENDING PROCEDURES TO BE ESTABLISHED BY THE OWNER FOR THE MAINTENANCE OF THE SYSTEM FROM YEAR TO YEAR. THIS SHALL INCLUDE COMPLETE INSTRUCTIONS FOR SYSTEM OPERATION AND MAINTENANCE INCLUDING WINTERIZING AND COMPLETE INSTRUCTIONS ON HOW TO DRAIN ENTIRE BACKFLOW PREVENTER TO PREVENT FREEZING. SUBMIT MANUALS WITH RECORD DRAWINGS. THE MANUAL SHALL ALSO CONTAIN:

1.1 IDENTIFICATION READABLE FROM THE OUTSIDE OF THE COVER STATING BY WHOM THE INFORMATION WAS COMPILED. 1.2 NEATLY TYPEWRITTEN INDEX NEAR THE FRONT OF THE MANUAL, FURNISHING IMMEDIATE INFORMATION AS TO THE LOCATION IN THE

MANUAL OF ALL EMERGENCY DATA REGARDING THE INSTALLATION. 1.3 COMPLETE NOMENCLATURE OF ALL REPLACEABLE PARTS, THEIR PART NUMBERS, CURRENT COST, AND NAME AND ADDRESS OF THE NEAREST VENDOR OF REPLACEMENT PARTS.

1.4 COMPLETE OUTLINE OF FUTURE WATERING SCHEDULES AND WHEN THEY SHOULD BE CHANGED FROM THE INITIAL INSTALLATION SCHEDULE. THE INITIAL SCHEDULE IS CALCULATED FOR A WATERING RATE TO ESTABLISH 1.5 COPY OF ALL GUARANTEES AND WARRANTIES ISSUED ON THE

E. RECORD DRAWINGS:

1. AS INSTALLATION OCCURS, PREPARE ACCURATE RECORD DRAWING TO BE SUBMITTED PRIOR TO FINAL INSPECTION, INCLUDING:

INSTALLATION, SHOWING ALL DATES OF EXPIRATION

DETAIL AND DIMENSION CHANGES MADE DURING CONSTRUCTION. SIGNIFICANT DETAILS AND DIMENSIONS NOT SHOWN IN THE APPROVED

CONTRACT DOCUMENTS. 1.3 FIELD DIMENSIONED LOCATIONS OF VALVE BOXES, MANUAL DRAINS, AUTOMATIC DRAIN VALVES, QUICK-COUPLER VALVES, CONTROL WIRE

RUNS NOT IN MAINLINE DITCH, AND BOTH ENDS OF SLEEVES. 1.4 TAKE DIMENSIONS FROM PERMANENT CONSTRUCTED SURFACES OR EDGES LOCATED AT OR ABOVE FINISH GRADE.

TAKE AND RECORD DIMENSIONS AT TIME OF INSTALLATION

2. THE RECORD DRAWINGS SHALL BE PROVIDED ELECTRONICALLY IN AUTOCAD (OR IN SOFTWARE COMPATIBLE WITH AUTOCAD) AND ON REPRODUCIBLE MATERIAL

3. PROVIDE REDUCED COPY OF RECORD DRAWING AT HALF-SIZE WITH COLOR KEY CIRCUITS, AND LAMINATE BOTH SIDES WITH 5 MIL THICK OR HEAVIER PLASTIC. MOUNT ON \$\frac{1}{6}\$ INCH PLYWOOD BOARD. DRILL TWO 1/2-INCH HOLES AT TOP OF BOARD AND HANG ON HOOKS IN ELECTRICAL ROOM OR AS DIRECTED BY ARCHITECT OR OWNER.

QUALITY ASSURANCE

PRODUCT OPTIONS: DRAWINGS SHALL INDICATE SIZE, PROFILES, AND DIMENSIONAL REQUIREMENTS OF IRRIGATION PIPING AND COMPONENTS BASED ON SPECIFIC TYPES AND MODELS INDICATED.

IALS SHALL BE IN ACCORDANCE WITH LATEST RULES AND REGULATIONS, AND OTHER APPLICABLE STATE OR LOCAL LAWS. NOTHING IN APPROVED CONTRACT DOCUMENTS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES.

C. PRE-INSTALLATION MEETING: SCHEDULE MEETING AFTER EXCAVATION OF TRENCHES AND INSTALLATION OF SLEEVES, BUT PRIOR TO INSTALLATION OF PIPE.

PROJECT CONDITIONS

A. INVESTIGATE AND DETERMINE AVAILABLE WATER SUPPLY, WATER PRESSURE, WATER QUALITY AND FLOW CHARACTERISTICS. REPORT ANY DISCREPANCIES FROM DESIGN

SEQUENCING AND SCHEDULING

A MAINTAIN UNINTERRUPTED WATER SERVICE TO BUILDING DURING NORMAL WORKING HOURS, ARRANGE FOR TEMPORARY WATER SHUTOFF WITH OWNER

B. COORDINATE IRRIGATION PIPING WITH UTILITY WORK.

EXTRA MATERIALS

A. FURNISH EXTRA MATERIALS DESCRIBED BELOW THAT MATCH PRODUCTS INSTALLED AND THAT ARE PACKAGED WITH PROTECTIVE COVERING FOR STORAGE AND IDENTIFIED WITH LABELS DESCRIBING CONTENTS. DELIVER EXTRA MATERIALS TO OWNER.

1 TWO VALVE BOX COVER KEYS

2. TWO QUICK COUPLER KEYS WITH BRASS HOSE SWIVEL. TWO MANUAL DRAIN VALVE KEYS.

4. TWO SETS OF SPRINKLER WRENCHES FOR ADJUSTING, CLEANING OR DISASSEMBLY OF EACH TYPE OF SPRINKLER. 5. TWO OF ANY OTHER TOOLS REQUIRED FOR ANY OTHER EQUIPMENT.

MATERIALS

A. BACKFILL MATERIAL

1. BACKFILL MATERIAL SHALL CONSIST OF SAND, NATIVE MATERIAL OR TOPSOIL WITH NO ROCKS LARGER THAN $\frac{1}{4}$ INCH IN ANY DIMENSION. ARCHITECT SHALL APPROVE ON-SITE MATERIAL FOR BACKFILL OPERATION

2. IMPORTED BACKFILL MATERIAL, AS REQUIRED, SHALL BE CLEAN SOIL, FREE FORM ORGANIC MATERIAL, TRASH, DEBRIS, RUBBISH, BROKEN CEMENT, ASPHALT MATERIAL, OR OTHER OBJECTIONABLE SUBSTANCES AND APPROVED BY THE

B. DRAINAGE FILL MATERIAL

1. WASHED, EVENLY GRADED MIXTURE OF CRUSHED STONE, OR CRUSHED OR UNCRUSHED GRAVEL, WITH 100% PASSING A 1-1/2" SIEVE AND NOT MORE THAN 5% PASSING A NO. 4 SIEVE.

COMPONENTS

A. PIPE AND FITTINGS:

1 PIPE SHALL BE CONTINUOUSLY AND PERMANENTLY MARKED WITH MANUFACTURER'S NAME, SIZE, SCHEDULE, TYPE AND WORKING PRESSURE

2. ALL IRRIGATION PIPING SHALL BE SCHEDULE 40 PVC FOR PIPES \(\frac{3}{4}\)" THROUGH 3" AND CLASS 200 FOR PIPE SIZES 4" AND LARGER OR APPROVED EQUAL PIPE. 3. MAINLINE SHALL HAVE PVC SCHEDULE 40 FITTING FOR PIPE SIZES 3/4" THOUGH 1 3/2"

PVC SCHEDULE 80 FOR PIPE SIZES 2" THROUGH 3" AND PUSH ON DUCTILE OR MECHANICAL CAST IRON FITTINGS ON PVC MAINLINE FITTING 4" AND LARGER. 4. REMOTE CONTROL VALVE CONNECTION TO MAINLINE SHALL BE PVC SST TEE, EPOXY COATED DOUBLE STRAP SADDLE, M.J. TEE, OR HARDCO DUCTILE IRON

SERVICE TEES. B. SLEEVES: 1. SLEEVES DIAMETER SHALL BE TWO TIMES LARGER THAN PIPE THAT IS TO BE INSTALLED IN SLEEVE SLEEVES UNDER 4" DIAMETER SHALL BE PVC SCHEDULE

40. SLEEVES 4" AND LARGER SHALL BE CLASS 200 PVC SEWER PIPE. 2. WIRE SLEEVES SHALL BE PVC PIPE OR ELECTRICAL TUBING. WIRE SLEEVES SHALL BE 2" UP TO 40 WIRES AND 2 1 INCH FOR 41 TO 56 WIRES AND 3" FOR 57 TO 88

C. SPRINKLER HEADS: 1. SPRAY HEADS: HUNTER MP ROTATOR OR MP ROTATOR SR SERIES FOR ALL SPRAY SPRINKLER HEADS OR APPROVED EQUAL.

D. SPRINKLER RISERS:

1. QUICK COUPLING VALVES SHALL HAVE AN ADJUSTABLE RISER. THREE ELL SWING JOINT ASSEMBLY LINESS DETAILED OTHERWISE ON THE DRAWINGS. THESE SWING JOINT FITTINGS SHALL BE SCHEDULE 80 GRAY PVC FOR NIPPLES AND ELBOWS UNLESS OTHERWISE APPROVED. HORIZONTAL NIPPLE PARALLEL TO SIDE OF LATERAL LINE SHALL BE 8 INCHES LONG MINIMUM. ALL OTHER NIPPLES ON SWING JOINT RISER SHALL BE OF LENGTH REQUIRED FOR PROPER INSTALLATION OF QUICK COUPLING VAI VE

2. STATIONARY SPRAY POP-UP SPRINKLER HEADS, SHRUB SPRAY HEADS, STATIONARY

SPRAY SPRINKLER HEADS AND ROTORS HEADS SHALL HAVE RISERS MADE UP ONE OF

2.1 RISERS FOR IRRIGATION SPRAY HEADS WITH INLET SIZE OF ½ INCH SHALL BE SWING PIPE 14 INCHES LONG MINIMUM AND 24 INCHES MAXIMUM. SWING PIPE WITH SPIRAL BARB FITTINGS AND STREET ELBOWS SHALL BE ASSEMBLED ACCORDING TO PAN DETAILS. EQUAL AS APPROVED BY ARCHITECT BEFORE

2.2 RISER FOR IRRIGATION ROTOR HEADS WITH 3 TO 1 INCH INLETS SHALL HAVE A SWING JOINT ASSEMBLY. INSTALL ACCORDING TO DETAILS ON DRAWINGS

1. HOSE BIBS: 3" ANGLE TYPE HOSE BIB. INSTALL ON MAIN LINE IN VALVE BOXES ON THREE-ELL SWING JOINT ASSEMBLY

2. CONTROL VALVES: HUNTER PGV-151 VALVES. . MANUAL DRAIN VALVES: NIBCO BRASS BALL GAS COCK WITH TEFLON SEAT OR APPROVED EQUAL. BRASS BALL VALVE SHALL BE "T" HANDLE ON MAIN LINES AND SHALL BE IN VALVE BOXES ON LATERAL LINES

I. AUTOMATIC DRAIN VALVES - KING DRAIN OR APPROVED EQUAL 5. ISOLATION VALVES: APOLLO INTERNATIONAL, FULL PORT BRASS BALL VALVE OR APPROVED EQUAL AS SHOWN ON DRAWINGS

F. DRIP IRRIGATION: 1. DRIP IRRIGATION VALVES: HUNTER ICZ 1" LF OR APPROVED EQUAL.

2. DRIP TUBING SHALL BE: 2.1 HUNTER HDL-06-12-CV 3. DRIP TUBING FITTINGS SHALL BE:

> 3.1 HUNTER "HDL-LOC" FITTINGS 4. DRIP LINE TIE DOWNS STAKE SHALL BE BENT 12 GAUGE GALVANIZED STEEL STAPLE OR

H. EXPANSION CURLS:

1. EXPANSION CURLS SHALL BE PROVIDED WITHIN THREE (3) FEET OF EACH WIRE CONNECTION TO SOLENOID AND AT LEAST EVERY THREE HUNDRED (300) FEET IN LENGTH, (EXPANSION CURLS ARE FORMED BY WRAPPING AT LEAST 5 TURNS OF WIRE AROUND A ROD OR PIPE 1" OR MORE IN DIAMETER. THEN WITHDRAWING THE ROD).

I. VALVE BOXES: 1. FOR MANUAL DRAIN BALL VALVE - 12" DIAMETER VALVE BOX WITH APPROPRIATE LID.

LARGER SIZE OR SQUARE IF REQUIRED FOR ACCESS TO VALVE HANDLES. 2. FOR CIRCUIT AND ISOLATION VALVES - CARSON JUMBO BOX OR APPROVED EQUAL. 8. VALVE BOX SUPPORTS - STANDARD SIZE FIRED CLAY PAVING BRICKS WITHOUT HOLES.

J. AUTOMATIC CONTROLLER:

1. AUTOMATIC CONTROLLER: HUNTER HC INCLUDING PROGRAMS AND CONNECTIONS REQUIRED FOR OPERATION. 2. INCLUDE ANY WIRING, COMMUNICATION LINKS, AND COMPUTER PROGRAMS TO MAKE

WEATHER STATION AND CONTROLLER OPERATIONAL K. BACKFLOW PREVENTER: WILKINS 375 REDUCED-PRESSURE BACKFLOW ASSEMBLY OR

1. SUBMIT OTHER COMPONENTS RECOMMENDED BY MANUFACTURER FOR ARCHITECT'S REVIEW AND ACCEPTANCE PRIOR TO INSTALLATION. 2. PROVIDE COMPONENTS NECESSARY TO COMPLETE AND MAKE SYSTEM OPERATIONAL.

L. CONTROLLER: 1. CONTROLLER SHALL BE HUNTER HCC HYDRAWISE ENABLED MODEL WITH SUFFICIENT STATIONS TO ACCOMODATE LAYOUT AND PROVIDE 5 ADDITIONAL STATIONS FOR FUTURE

M. OTHER COMPONENTS:

1. SUBMIT OTHER COMPONENTS RECOMMENDED BY MANUFACTURER FOR ARCHITECT'S REVIEW AND ACCEPTANCE PRIOR TO INSTALLATION.

PROVIDE COMPONENTS NECESSARY TO COMPLETE AND MAKE SYSTEM OPERATIONAL 3. IF REQUIRED, PROVIDE PRESSURE BOOSTER PUMP AND ALL ASSOCIATED EQUIPMENT AS REQUIRED TO MAKE PUMP OPERATIONAL.

A. CONCRETE FOR THRUST BLOCKS:

1. ONE CU. FT. CEMENT, 2 CU. FT. SAND, 4 CU. FT. GRAVEL, AND 5 GALLONS MINIMUM TO 6 GALLONS MAXIMUM WATER. 2. MIX THOROUGHLY BEFORE PLACING.

EXAMINATION

PREPARATION

A. SITE VERIFICATION OF CONDITIONS: PERFORM PRESSURE TEST AT STUB-OUT ON MAIN WATER LINE PROVIDED FOR IRRIGATION SYSTEM, OR AT NEAR-BY FIRE HYDRAN

A. DURING CONSTRUCTION AND STORAGE, PROTECT MATERIALS FROM DAMAGE AND PROLONGED EXPOSURE TO SUNLIGHT

B. WORK DAMAGED DURING COURSE OF WORK OF THIS SECTION SHALL BE REPLACED OR REPAIRED AT NO ADDITIONAL COST TO OWNER. IF DAMAGED WORK IS NEW, REPAIR OR REPLACEMENT SHALL BE PERFORMED BY INSTALLER OR ORIGINAL WORK

C. ALL LATERAL LINES SHALL RUN AS IS POSSIBLE WITHIN PLANTING AREAS AND AVOID CONFLICT WITH THE LOCATION OF PLANT MATERIALS. WHERE TRENCHING IS REQUIRED IN PROXIMITY TO PLANT MATERIALS CARE SHALL BE TAKEN TO AVOID DAMAGE TO ROOTS. DO NOT CUT EXISTING TREE ROOTS MEASURING OVER 2 INCHES IN DIAMETER.

INSTALLATION

A. TRENCHING AND BACKFILLING

1. PULLING OF PIPE IS NOT PERMITTED. 2. OVER-EXCAVATE TRENCHES 2 INCHES AND BRING BACK TO INDICATED DEPTH BY FILLING WITH BACKFILL MATERIAL AS SPECIFIED UNDER PART 2 - PRODUCTS SEPARATE OUT ROCKS LARGER THAN 1-1/2 INCH IN ANY DIRECTION LINCOVERED IN TRENCHING OPERATION FROM EXCAVATED MATERIAL AND REMOVE FROM AREAS TO RECEIVE

3. COVER PIPE BOTH TOP AND SIDES WITH 2 INCHES OF BACKFILL MATERIAL AS SPECIFIED UNDER PART 2 - PRODUCTS, PLACE AND COMPACT REMAINDER OF BACKFILL TO WITHIN 5 INCHES OF FINISH GRADE SHALL BE AS SPECIFIED IN RELATED SECTIONS. TOP 5 INCHES OF BACKFILL SHALL BE TOPSOIL AS SPECIFIED IN RELATED SECTION.

4. DO NOT COVER PRESSURE MAIN, SPRINKLER PIPE, OR FITTINGS UNTIL PRESSURE TEST HAS BEEN COMPLETED AND ARCHITECT HAS INSPECTED AND APPROVED THE SYSTEM.

EXPENSE OF THE CONTRACTOR.

B. EXCAVATION BEYOND EXCAVATION LIMITS 1. WHERE IT BECOMES NECESSARY TO EXCAVATE BEYOND THE LIMITS OF NORMAL EXCAVATION LINES IN ORDER TO REMOVE ROCK OR OTHER INTERFERING OBJECTS. THE VOID REMAINING AFTER THE REMOVAL OF THE OBJECT SHALL BE BACKFILLED. WITH SUITABLE MATERIAL AND COMPACTED AS PER THE "EARTHWORK" SECTION AND THIS SPECIFICATION SECTION. THE REMOVAL OF ALL ROCK OR OTHER INTERFERING OBJECTS AND THE BACKFILLING OF VOIDS LEFT BY SUCH REMOVALS SHALL BE AT THE

C. SLEEVING

1. CONTRACTOR IS RESPONSIBLE TO COORDINATE THE INSTALLATION OF THE SLEEVING WITH THE WORK OF OTHER TRADES. (I.E., CONCRETE, ASPHALT PAVING, ETC.). 2. SLEEVE WATER LINES AND CONTROL WIRES UNDER WALKS AND PAVING EXTEND

SLEEVES 6 INCHES MINIMUM BEYOND WALK OR PAVEMENT EDGE. CAP SLEEVES UNTIL PIPES AND WIRES ARE INSTALLED TO KEEP SLEEVE CLEAN AND FREE OF DIRT AND

3. USE ONE WATER PIPE MAXIMUM PER SLEEVE. SLEEVE CONTROL WIRING IN SEPARATE 4. POSITION SLEEVES WITH RESPECT TO BUILDINGS AND OTHER OBSTRUCTIONS SO PIPE

CAN BE EASILY REMOVED. D. GRADES AND DRAINING

> 1. GRADE PIPING SO SYSTEM CAN BE COMPLETELY DRAINED. 1.1 SLOPE PIPE TO DRAIN TO CONTROL VALVE BOX WHERE POSSIBLE 1.2 WHERE THIS IS NOT POSSIBLE, SLOPE PIPE TO A MINIMUM NUMBER OF LOW POINTS AT THESE LOW POINTS INSTALL AN AUTOMATIC KING DRAIN

FINISH GRADE. 1.4 DO NOT USE AUTOMATIC DRAIN VALVES ON MAINLINES. 1.5 SLOPE PIPES UNDER PARKING AREAS OR DRIVEWAYS TO DRAIN OUTSIDE THESE

1.6 PROVIDE AND INSTALL QUICK-COUPLING VALVE OR VALVES IN LOCATION FOR EASY **BLOWOUT OF ENTIRE SYSTEM**

1.3 INSTALL 2 INCH CLASS 200 PVC PIPE OVER TOP OF MANUAL DRAIN AND CUT AT

E. PIPE INSTALLATION

1. INSTALL PIPE IN MANNER TO PROVIDE FOR EXPANSION AND CONTRACTION AS RECOMMENDED BY MANUFACTURER

2. UNLESS OTHERWISE INDICATED ON APPROVED DRAWINGS, INSTALL MAIN LINES AND LATERAL LINES CONNECTING ROTOR POP-UP SPRINKLERS WITH MINIMUM COVER OF 18 INCHES BASED ON FINISHED GRADE. INSTALL REMAINING LATERAL LINES WITH MINIMUM OF 12 INCHES OF COVER BASED ON FINISH GRADE.

3. INSTALL PIPE AND WIRES UNDER DRIVEWAYS OR PARKING AREAS IN SPECIFIED SLEEVES 18 INCHES MINIMUM BELOW FINISH GRADE OR AS SHOWN ON APPROVED DRAWINGS 4. LOCATE SPRINKLER HEADS NO CLOSER THAN 12 INCHES FROM BUILDING FOUNDATION. HEADS IMMEDIATELY ADJACENT TO MOWSTRIPS, WALKS, OR CURBS SHALL BE ONE INCH BELOW TOP OF MOWSTRIP, WALK OR CURB AND HAVE ONE TO 3 INCHES CLEARANCE BETWEEN HEAD AND

MOWSTRIP, WALK, OR CURB. 5. CUT PLASTIC PIPE SQUARE. REMOVE BURRS AT CUT ENDS PRIOR TO INSTALLATION SO UNOBSTRUCTED FLOW WILL RESULT.

6. MAKE SOLVENT WELD JOINTS AS FOLLOWS 6.1 DO NOT MAKE SOLVENT WELD JOINTS IF AMBIENT TEMPERATURE IS BELOW 4 DEG. F. 6.2 CLEAN MATING PIPE AND FITTING WITH CLEAN, DRY CLOTH AND APPLY ONE COAT OF P-70 PRIMER TO EACH. 6.3 APPLY UNIFORM COAT OF 711 SOLVENT TO OUTSIDE OF PIPE.

6.4 APPLY SOLVENT TO FITTING IN A SIMILAR MANNER.
6.5 RE-APPLY LIGHT COAT OF SOLVENT TO PIPE AND QUICKLY INSERT INTO FITTING.
6.6 GIVE PIPE OR FITTING A QUARTER TURN TO INSURE EVEN DISTRIBUTION OF SOLVENT AND MAKE SURE PIPE IS INSERTED TO FULL DEPTH OF FITTING SOCKET. 6.7 HOLD IN POSITION FOR 15 SECONDS MINIMUM OR LONG ENOUGH TO SECURE JOINT 6.8 WIPE OFF SOLVENT APPEARING AT OUTER SHOULDER OF FITTING.

6.9 DO NOT USE EXCESSIVE AMOUNT OF SOLVENT THEREBY CAUSING OBSTRUCTION TO FORM ON INSIDE OF PIPE. 6.10 ALLOW JOINTS TO SET AT LEAST 24 HOURS BEFORE APPLYING PRESSURE TO PVC PIPE. 3.11 TAPE THREADED CONNECTIONS WITH TEFLON TAPE. 6.12 IF PIPE IS LARGER THAN 2 INCHES, INSTALL CONCRETE THRUST BLOCKS WHEREVER CHANGE OF DIRECTION OCCURS ON PVC MAIN PRESSURE LINES, UNLESS OTHERWISE

F. BACKFLOW PREVENTER INSTALLATION

1. INSTALL BACKFLOW PREVENTER ACCORDING TO MANUFACTURER'S RECOMMENDATION AND STATE 2. SET THE HEIGHT OF THE BACKFLOW PREVENTER TO PROVIDE A MINIMUM CLEARANCE OF 12 INCHES

BETWEEN THE BOTTOM OF THE BACKFLOW PREVENTER AND THE GROUND BELOW. G. IRRIGATION CONTROLLER

. INSTALL IRRIGATION CONTROLLER ACCORDING TO MANUFACTURER'S RECOMMENDATION AND WITH PROPER GROUNDING FOR SURGE AND LIGHTNING PROTECTION.

H. REMOTE CONTROL VALVES AND VALVE BOXES

DETAILED ON APPROVED DRAWINGS.

1. INSTALL CONTROL WIRES, VALVES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND ACCORDING TO ELECTRICAL CODE. 2. INSTALL VALVES, PLASTIC BOXES WITH LOCKING REINFORCED HEAVY DUTY PLASTIC COVERS LOCATE VALVE BOX TOPS AT FINISH GRADE. DO NOT INSTALL MORE THAN TWO VALVES IN A

3. PLACE PEA GRAVEL A MINIMUM OF 6 INCHES DEEP BELOW VALVE FOR DRAINAGE. EXTEND PEA

GRAVEL 3 INCHES MINIMUM BEYOND LIMITS OF VALVE BOX AND MAINTAIN 4 INCHES MINIMUM

RETWEEN BOTTOM OF VALVE AND TOP OF PEA GRAVEL SET VALVE BOXES OVER VALVE SO ALL

PARTS OF VALVE CAN BE REACHED FOR SERVICE. SET COVER OF VALVE BOX EVEN WITH FINISH

USE WATERPROOF WIRE CONNECTORS AT SPLICES AND LOCATE ALL SPLICES WITHIN VALVE BOXES

EXTRA WIRE. EXTEND EXTRA CONTROL WIRES 24 INCHES AND LEAVE COILED IN EACH VALVE BOX.

3. USE WHITE OR GRAY COLOR FOR COMMON WIRE AND OTHER COLORS FOR ALL OTHER WIRE. EACH

GRADE. VALVE BOX SHALL BE REASONABLY FREE FOR DIRT AND DEBRIS.

1. TAPE CONTROL WIRE TO SIDE OF MAIN LINE EVERY 10 FEET. WHERE CONTROL WIRE LEAVES MAIN OR LATERAL LINE, ENCLOSE IT IN CLASS 200 PVC CONDUIT

COMMON WIRE MAY SERVE ONLY ONE CONTROLLER, PROVIDE 12 INCHES OF EXPANSION LOOP SLACK WIRE AT ALL CONNECTIONS INSIDE VALVE BOX. 4. RUN ONE EXTRA CONTROL WIRE FROM PANEL CONTINUOUSLY FROM VALVE TO VALVE THROUGHOUT SYSTEM SIMILAR TO COMMON WIFE FOR USE IF A WIRE FAILS. WIRE SHALL BE DIFFERENT COLOR THAN ALL OTHER WIRES AND SHALL BE MARKED IN CONTROL BOX AS AN

. INSTALL (1) QUICK COUPLING VALVES IN APPROPRIATE LOCATIONS IN VALVE BOXES. 2. ISOLATION VALVES, AND ANY OTHER EQUIPMENT REQUIRED BY LOCAL AUTHORITIES SHALL BE INSTALLED ACCORDING TO LOCAL CODES AND REQUIREMENTS IN ORDER TO MAKE THIS SYSTEM

4. INSTALL ANY OTHER EQUIPMENT REQUIRED BY LOCAL AUTHORITIES ACCORDING TO LOCAL CODES AND REQUIREMENTS IN ORDER TO MAKE THIS SYSTEM COMPLETE.

3. INSTALL ISOLATION VALVES TO SEGMENT THE SYSTEM FOR MAINTENANCE.

1. PRIOR TO INSTALLATION OF SPRINKLER HEADS, OPEN CONTROL VALVES AND USE FULL HEAD OF WATER TO FLUSH OUT SYSTEM. 2. SET SPRINKLER HEADS AND QUICK-COUPLING VALVES PERPENDICULAR TO FINISH GRADE.

3. DO NOT INSTALL SPRINKLERS USING SIDE INLETS; INSTALL USING BASE INLETS ONLY. SET SPRINKLER HEADS AT A CONSISTENT DISTANCE FROM EXISTING WALKS, CURBS AND OTHER PAVES AREAS AND TO GRADE, SEE "PIPE INSTALLATION" SECTION. 5. SHRUB SPRAY HEADS SHALL BE INSTALLED ON RISERS A MINIMUM OF 12 INCHES ABOVE FINISH

GRADE OF PLANTING AREA WHERE NOT ADJACENT TO PEDESTRIAN AREAS. AT SHRUB AREAS ADJACENT TO PEDESTRIAN ACCESS USE POP-UP SPRAY HEADS.

L. DRIP IRRIGATION 1. POINT SOURCE DRIP LINE TUBING SHALL BE INSTALLED TO CONFORM TO THE FOLLOWING: 1.1 PLACE TUBING ON TOP OF LANDSCAPE FABRIC AND UNDER PLANTING BED MULCH

1.2 ALL DRIP LINE TUBING SHALL BE HELD IN PLACE BY SOIL STAPLES. SOILD STAPLES SHALL CONFORM TO THE FOLLOWING 1.2.1 SANDY SOIL: ONE STAPLE EVERY THREE (3) FEET AND TWO (2) STAPLES ON EACH CHANGE OF DIRECTION (TEE, ELBOW OR CROSS). 1.2.2 LOAM SOIL: ONE STAPLE EVERY FOUR (4) FEET AND TWO (2) STAPLES ON EACH

CHANGE OF DIRECTION (TEE, ELBOW OR CROSS). 1.2.3 CLAY SOIL: ONE STAPLE EVERY FIVE (5) FEET AND TWO (2) STAPLES ON EACH CHANGE OF DIRECTION (TEE, ELBOW OR CROSS). 1.3 JOIN TOGETHER ALL ENDS OF TUBING WHEN POSSIBLE. INSTALL A REMOVABLE FLUSHING

CAP AT POINTS ON THE SYSTEM TO DRAIN THE TUBING. AT ENDS NOT USED FOR FLUSHING INSTALL A FIGURE EIGHT CLOSURE. 2. POINT SOURCE DRIP LINE EMITTERS INSTALLATION SHALL CONFORM TO THE FOLLOWING:

2.4 SPACE THE POINT OF WATER APPLICATION EVENLY AROUND THE PLANTS.

2.1 ALL DRIP TUBING SHALL HAVE BUG CAP AT END OF \$\frac{1}{4}\$ INCH DISTRIBUTION TUBING. 2.2 ALL DRIP TUBING SHALL BE HELD ABOVE MULCH BY \$\frac{1}{4}\$ INCH TUBING STAKE. 2.3 THE FOLLOWING EMITTERS SHALL BE INSTALLED FOR EACH PLANT: 2.3.1 SMALL SHRUB: TWO (2) 0.5 GPH EMITTERS.

2.3.2 LARGE SHRUB: TWO (2) 0.5 GPH EMITTERS 2.3.3 SMALL TREE: FOUR (4) 0.5 GPH EMITTERS. 2.3.4 LARGE TREE: FOUR (4) 0.5 GPH EMITTERS.

HOLD THE WATER SO IT CAN ADEQUATELY SOAK IN 1. NOTIFY ARCHITECT TWO WORKING DAYS MINIMUM PRIOR TO TESTING. 2. TEST PRESSURE LINES AT 100 PSI MINIMUM FOR 6 HOURS MINIMUM AND MAKE CERTAIN THERE ARE NO LEAKS BEFORE BACKFILLING.

3. AFTER BACKFILLING, PERFORM AN OPERATING TEST OF THE ENTIRE SYSTEM. OPERATE THE ENTIRE

SYSTEM THROUGH ONE CYCLE OF THE CONTROLLER FOR THE PURPOSE OF CHECKIN

COVERAGE AND ASSURING THE ABSENCE OF LEAKS. REPAIR WATER LINES, VALVES, OR

2.5 FOR TREES REQUIRING EMITTER FLOWS GREATER THAN 2 GPH INSTALL A WATER WELL TO

CONNECTIONS WHICH SHOW EVIDENCE OF LEAKAGE 4. ANY PORTION OF THE SYSTEM WHICH SHOWS DEFECTS OR LEAKAGE SHALL BE REPAIRED TO THE SATISFACTION OF THE ARCHITECT AND THE OWNER OR BE REPLACED. AFTER ALL REPAIRS OR REPLACEMENTS HAVE BEEN MADE AND APPROVED BY THE ARCHITECT, THE ABOVE REQUIRED

TEST SHALL BE MADE AGAIN.

1. ADJUST HEADS TO PROPER GRADE WHEN TURF IS SUFFICIENTLY ESTABLISHED TO ALLOW WALKING ON IT WITHOUT APPRECIABLE HARM. SUCH LOWERING OR RAISING OF HEADS SHALL BE PART OF ORIGINAL CONTRACT WITH NO ADDITIONAL COST TO OWNER. 2. ADJUST SPRINKLER HEADS FOR PROPER DISTRIBUTION AND TRIM SO SPRAY DOES NOT FALL ON

3. ADJUST WATERING TIME OF VALVES TO PROVIDE PROPER AMOUNTS OF WATER TO ALL PLANTS.

1. REMOVE FROM SITE ALL DEBRIS RESULTING FROM WORK OF THIS SECTION.

≱|≪||

6

S

0 PE

6 2

ORMANC IRRIGATION

S

ட

CIFICATION

(2) CONCRETE SIDEWALK - SEE CIVIL

(3) EXISTING CONCRETE SIDEWALK (4) CANTILEVERED SLIDING GATE - SEE F / SD1.3

5 GATE OPERATOR

(6) DECORATIVE FENCING - SEE E / SD1.3

(7) CONCRETE FLAG POLE BASE

(8) CHAIN LINK FENCE WITH PRIVACY SLATS - SEE D / SD1.3

(9) BACKUP GENERATOR WITH FUEL SUPPLY

(10) RADIO TOWER

(11) STAINLESS STEEL AND CONCRETE BOLLARDS - SEE ENLARGED PLANS

(12) DOWNSPOUTS (13) CONCRETE PAD

(14) EXISTING LANDSCAPE

(15) CONCRETE RAMP AND LANDING

(16) DUMPSTER ENCLOSURE

(17) NOT USED

(18) CHAIN LINK SWING GATE - SEE B / SD1.4

(19) TRANSFORMER - SEE ELECTRICAL AND CIVIL

(20) MECHANICAL EQUIPMENT

(21) LANDSCAPE ISLAND

22) ASPHALT STRIPING

(23) HANDICAP PARKING SIGNS - SEE CIVIL

24) PROTECT EXISTING MONUMENT SIGN (25) STORAGE YARD AREA

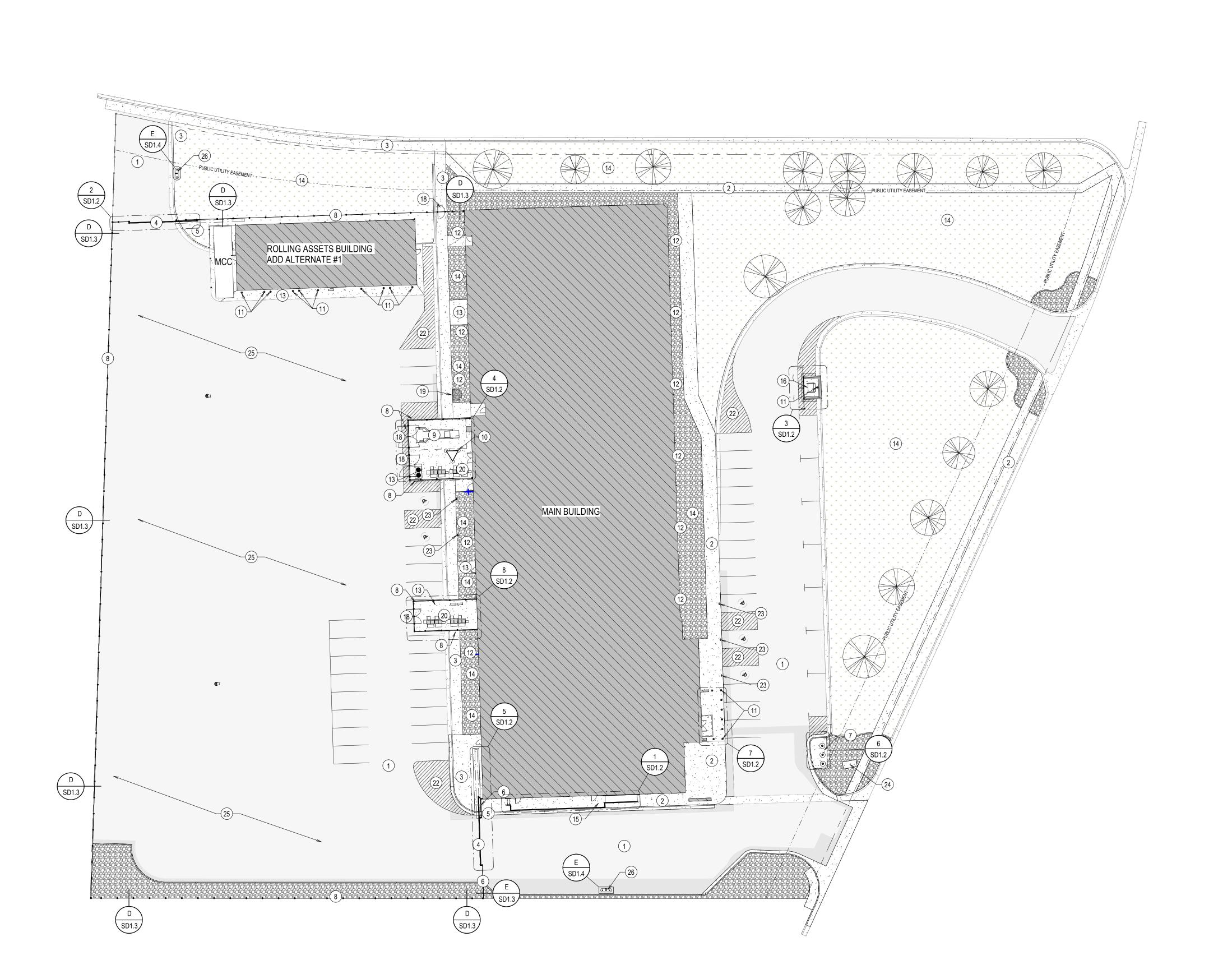
(26) CARD READER AND KEYPAD ON PEDESTAL

ISP NEW DISTRICT #6 FACILITY
1155 FOOTE DRIVE
IDAHO FALLS, IDAHO 83402 SP DPW 22511

REVISIONS

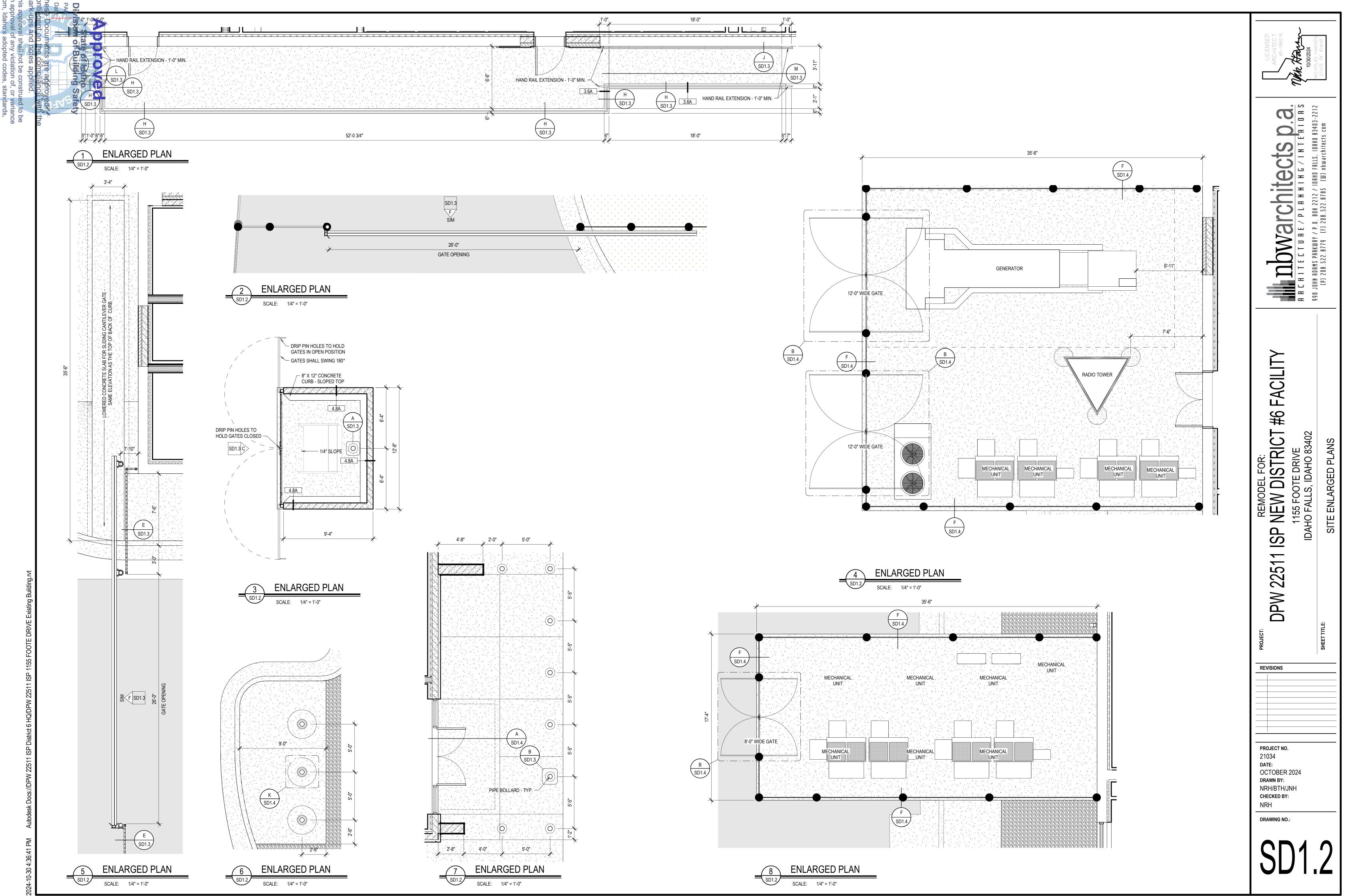
PROJECT NO. 21034 DATE: OCTOBER 2024 DRAWN BY: NRH/BTH/JNH CHECKED BY:

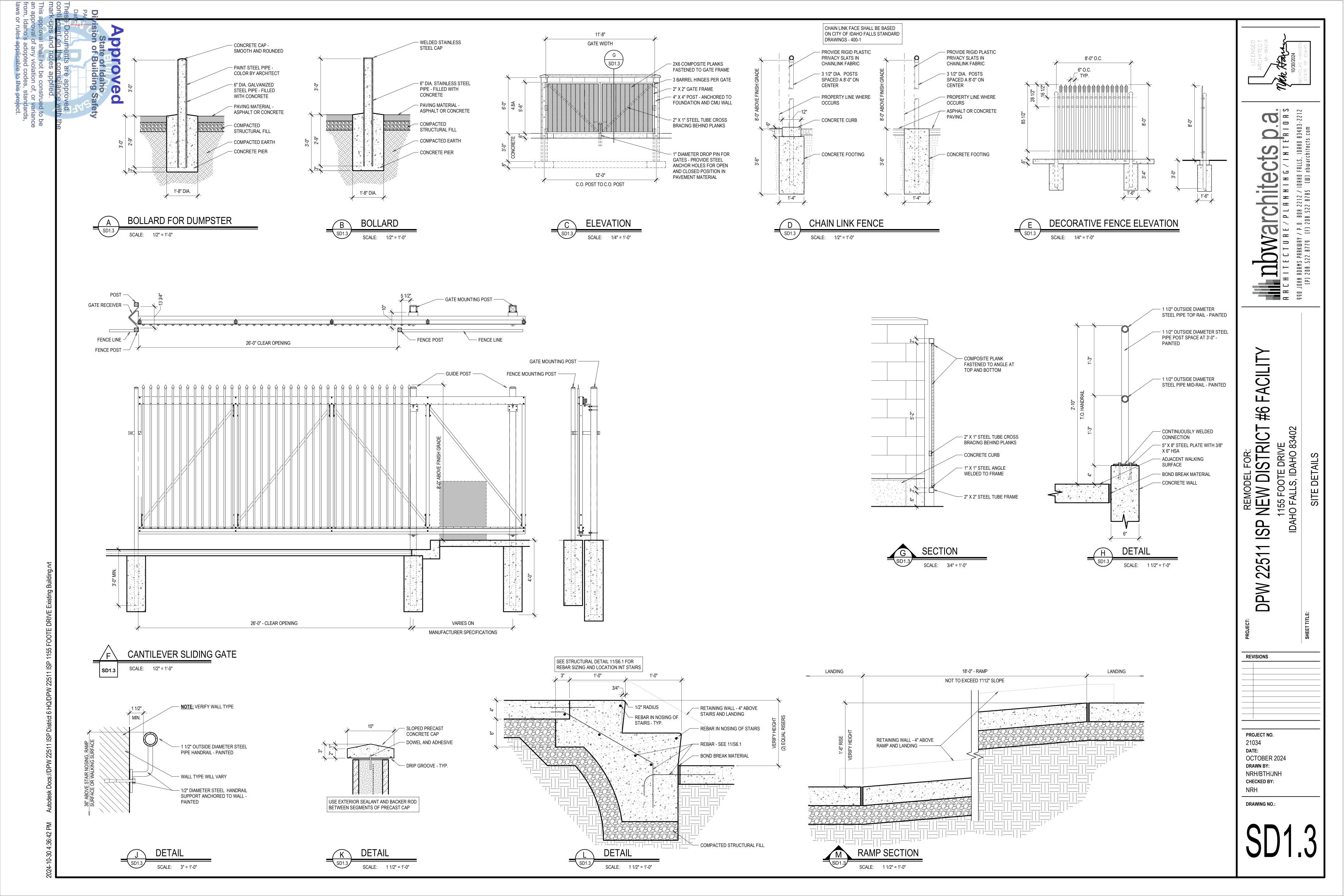
DRAWING NO.:





SITE PLAN

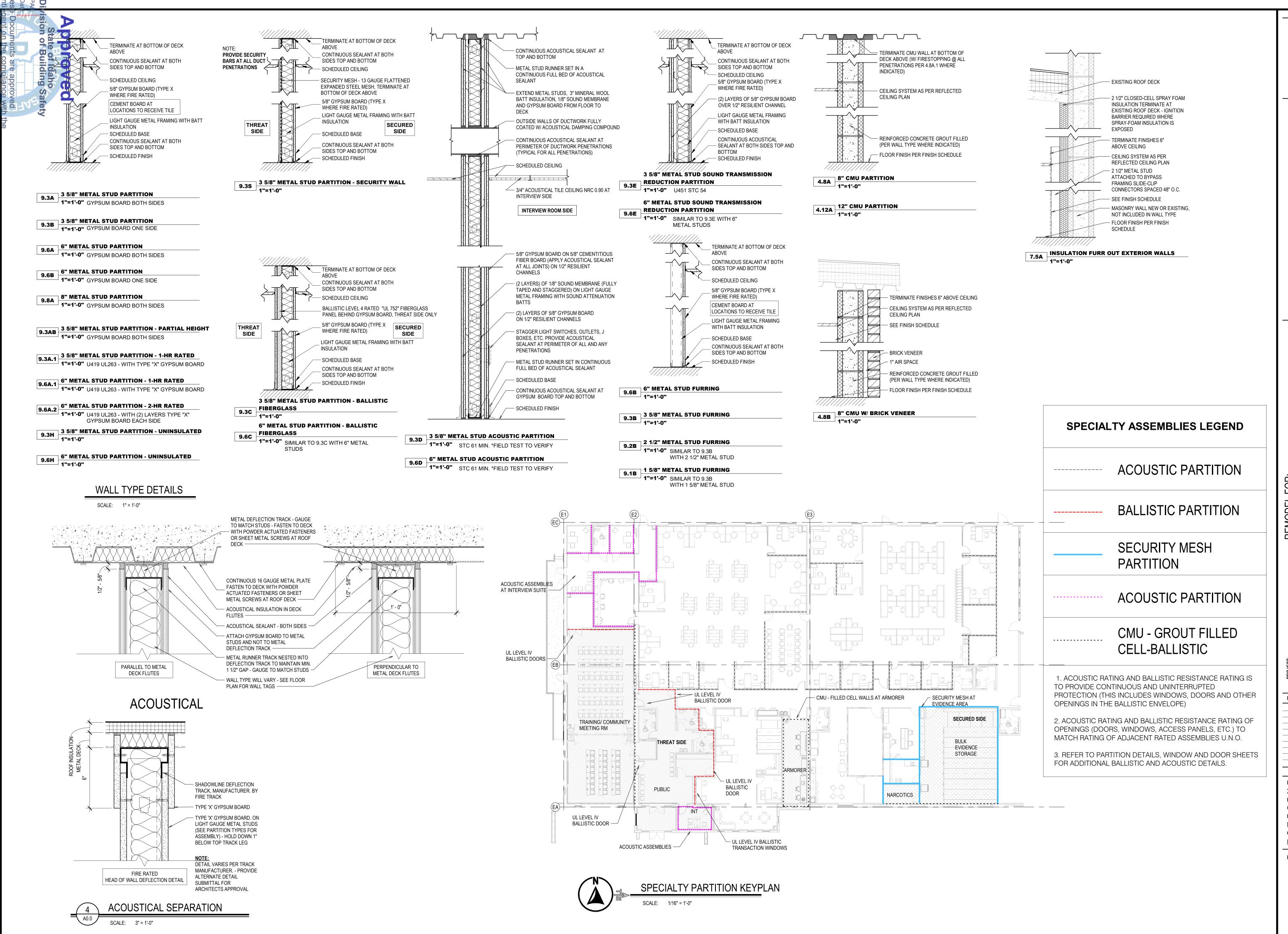




ISP NEW DISTRICT #6 FACILITY
1155 FOOTE DRIVE
IDAHO FALLS, IDAHO 83402 SP SP DPW 2251

REVISIONS

PROJECT NO. 21034 DATE: OCTOBER 2024 DRAWN BY: NRH/BTH/JNH



FACILI 9#

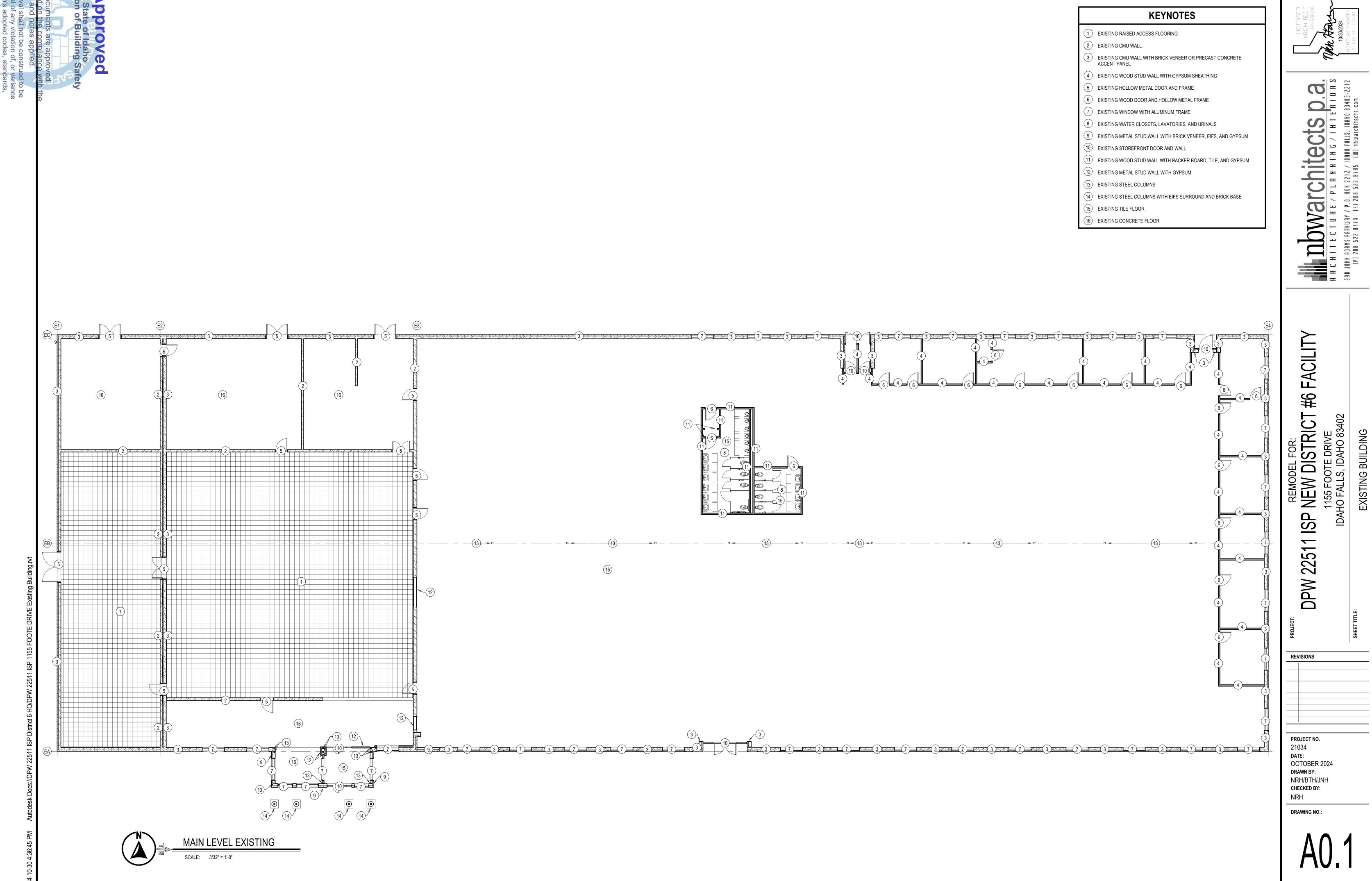
SP NEW DIST 1155 FOOTE DR IDAHO FALLS, IDAH

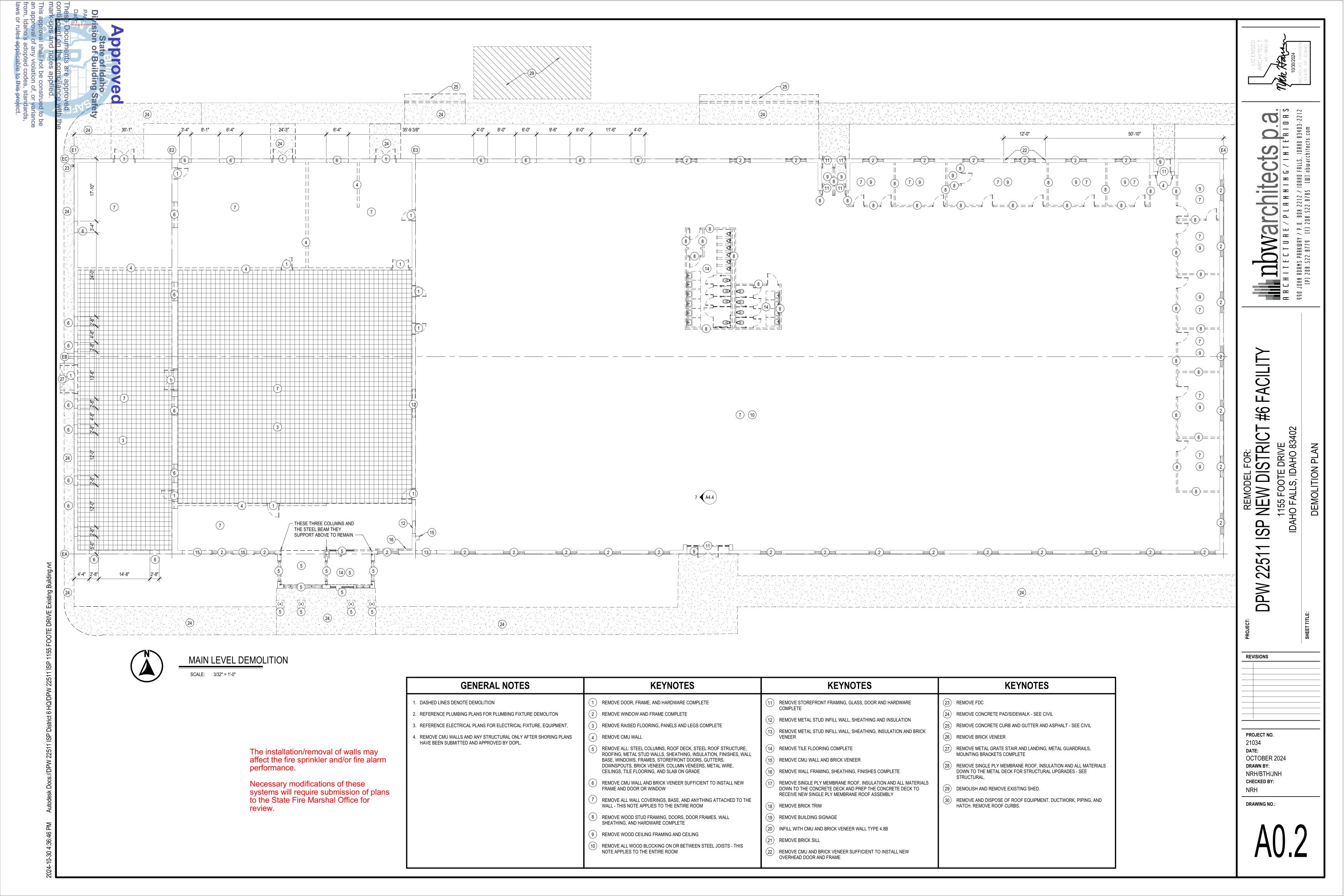
<u>S</u> 225 DPW

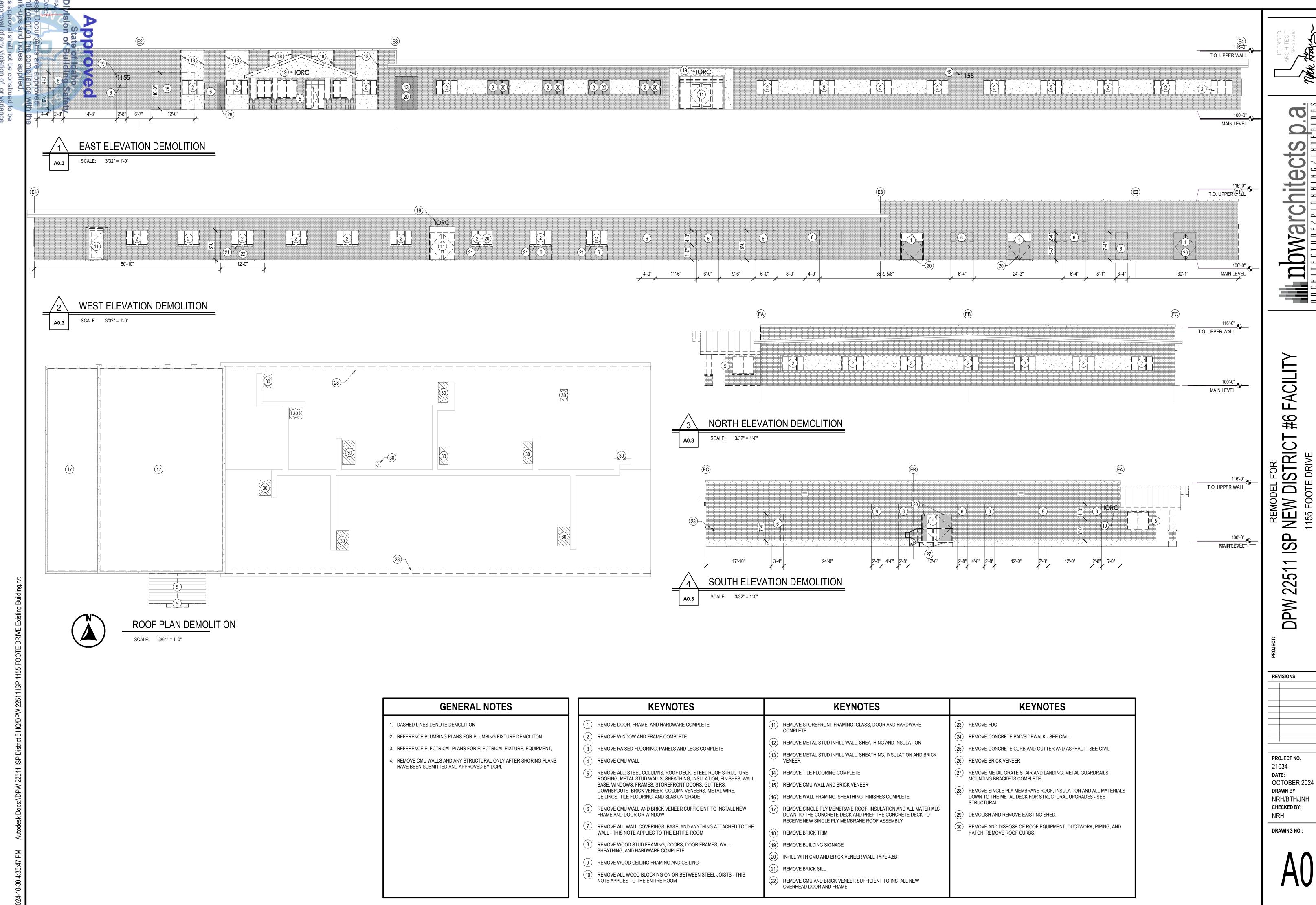
REVISIONS

PROJECT NO.

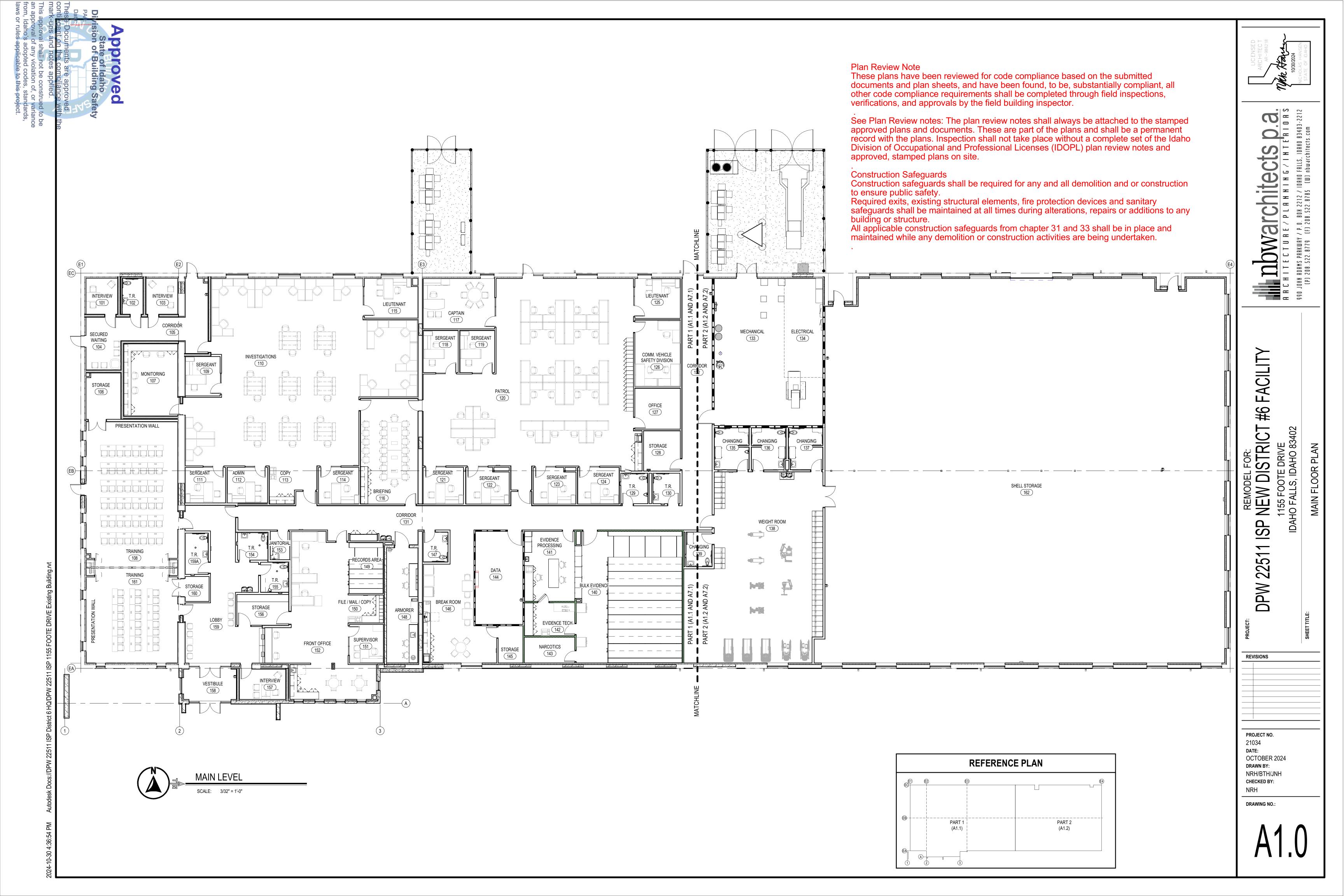
21034 DATE: OCTOBER 2024 DRAWN BY: NRH/BTH/JNH CHECKED BY: NRH







NRH/BTH/JNH



FACILITY 9# ISP NEW DISTRICT # 1155 FOOTE DRIVE IDAHO FALLS, IDAHO 83402 DRIVE AHO 83402 ISP DPW 2251

REVISIONS

PROJECT NO. 21034 DATE: OCTOBER 2024 NRH/BTH/JNH CHECKED BY:

. CONTRACTOR SHALL RESOLVE ALL DIMENSIONAL OR OTHER DISCREPANCIES, DURING LAYOUT WITH ARCHITECT, PRIOR TO BEGINNING CONSTRUCTION.

2. ALL WALL-MOUNTED CASEWORK, MILLWORK, GRAB BARS, HARDWARE, EQUIPMENT, ETC. SHALL BE ANCHORED TO WOOD BLOCKING BETWEEN STUDS, U.N.O. COORDINATE BLOCKING PRIOR TO WALL FINISHES, INCLUDING OWNER FURNISHED ITEMS.

3. CAULK ALL INTERIOR JOINTS, U.N.O.

4. ALL WORK TO BE IN ACCORDANCE WITH ALL CODES & ACCESSIBILITY

5. EXTEND NON-INSULATED STUD WALLS & GYP. BOARD 12" MIN. ABOVE SUSPENDED CEILING. U.N.O.

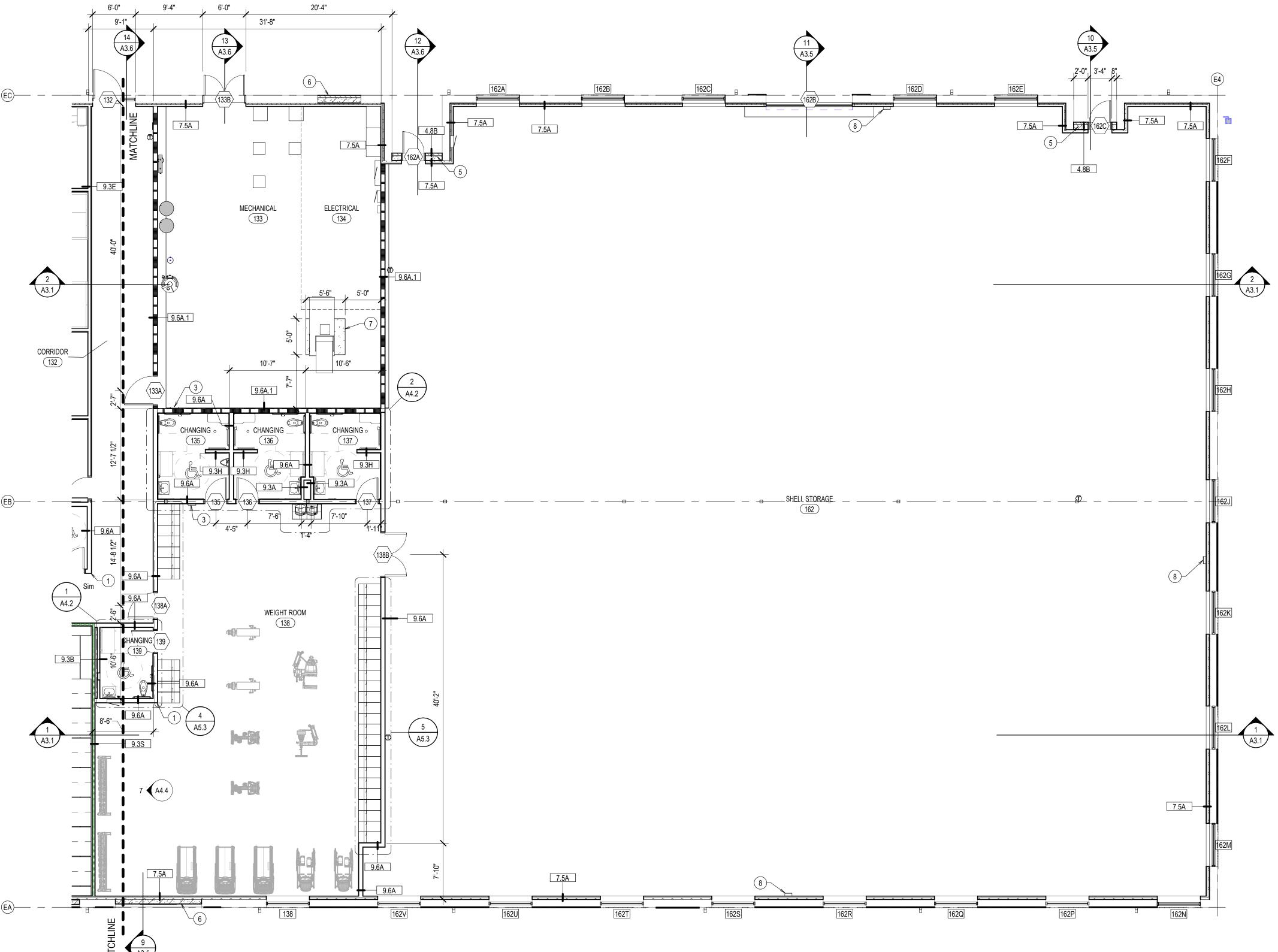
6. ALL INSULATED INTERIOR WALLS TO EXTEND TO UNDERSIDE OF SECOND FLOOR METAL DECK OR UNDERSIDE OF ROOF METAL DECK FOR SPEECH

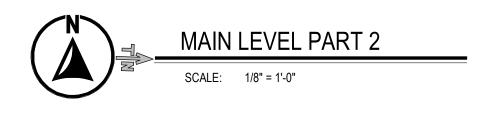
7. USE ISOLATION TAPE BETWEEN ALL DIS-SIMILAR METALS.

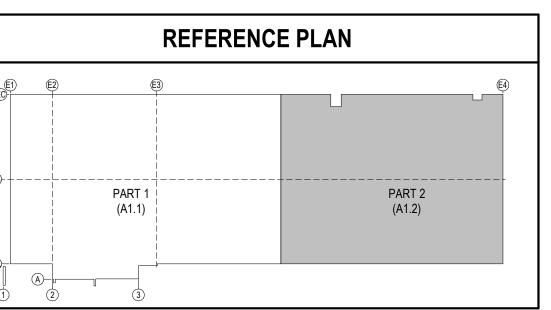
8. DIMENSION - FACE OF BRICK FOR EXTERIOR WALLS , DOORS, AND WINDOWS. FACE OF FRAMING FOR INTERIOR WALLS.

KEYNOTES

- (1) 48" TALL VINYL CORNER GUARD
- (2) 48" TALL STAINLESS STEEL CORNER GUARD
- (3) SEMI RECESSED FIRE EXTINGUISHER CABINETS
- (4) ROOF DRAIN CHASE 12" X 12" MIN. INSIDE DIMENSION 9.3B WALL TYPE
- (5) BRICK AND CMU INFILL
- (6) CMU INFILL
- 7) 6" CONCRETE HOUSE KEEPING PAD
- 8 SURFACE MOUNTED FIRE EXTINGUISHER CABINETS







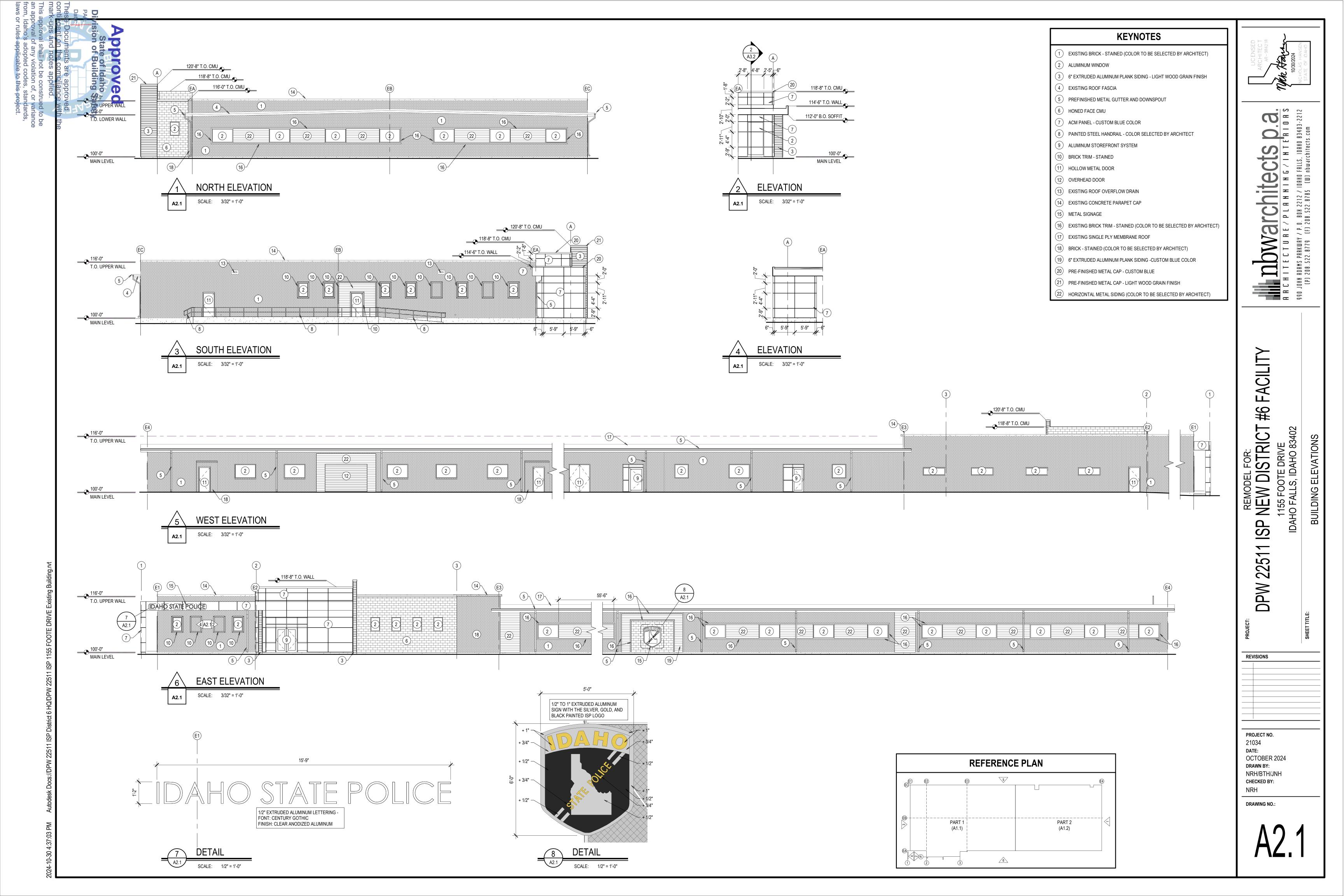
FACILITY 9# DPW 22511 ISP NEW DISTRICT # 1155 FOOTE DRIVE IDAHO 83402

REVISIONS

PROJECT NO. 21034 DATE: OCTOBER 2024 NRH/BTH/JNH

DRAWING NO.:

CHECKED BY:



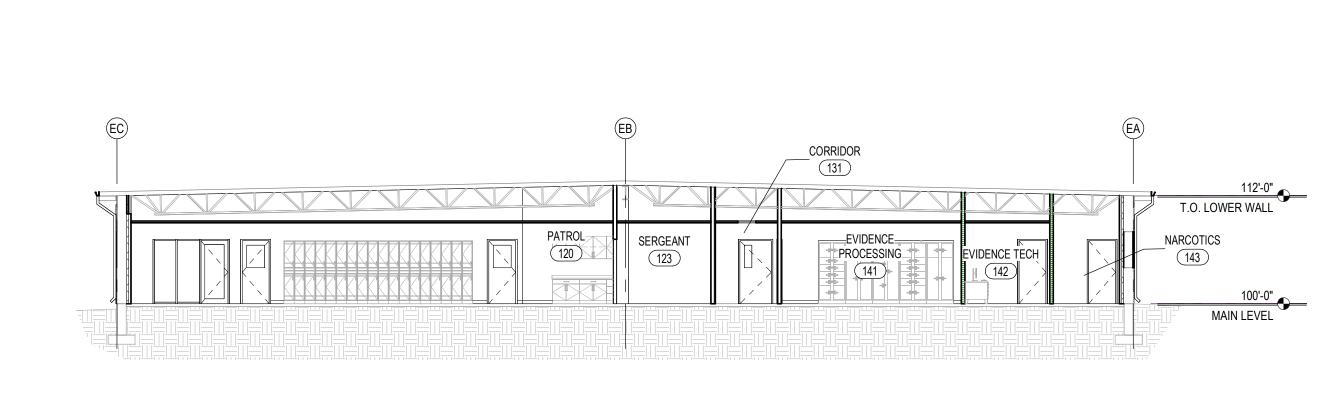
BREAK ROOM DATA 144 EVIDENCE PROCESSING 141 WEIGHT ROOM BULK EVIDENCE FRONT OFFICE SHELL STORAGE

SERGEANT 118

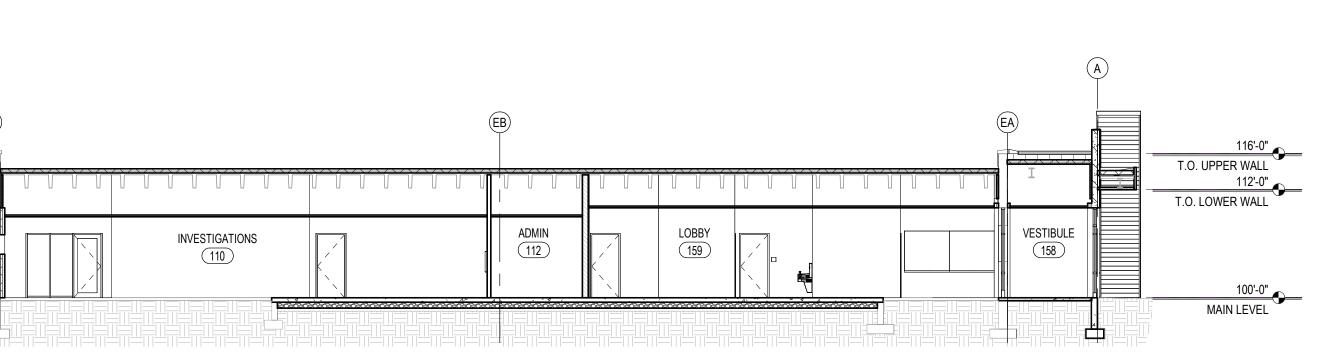
SERGEANT 119

PATROL 120

COMM. VEHICLE SAFETY DIVISION 126



SHELL STORAGE



INVESTIGATIONS 110

MECHANICAL 133

REFERENCE PLAN PART 2 (A1.2) PART 1 (A1.1)

HILD DWarchitects D.a. RRCHITECTURE/PLANNING/INTERIORS 990 JOHN ROAMS PARKWAY / P.O. BOX 2212 / IORHO FALLS, IORHO 83403-2212 (P) 208.522.8779 (F) 208.522.8785 (W) nbwarchitects.com

T.O. UPPER WALL

112'-0"

T.O. LOWER WALL

MAIN LEVEL

T.O. UPPER WALL

112'-0"

T.O. LOWER WALL

MAIN LEVEL

T.O. LOWER WALL

DPW 22511 ISP NEW DISTRICT #6 FACILITY
1155 FOOTE DRIVE
IDAHO FALLS, IDAHO 83402

BUILDING SECTIONS

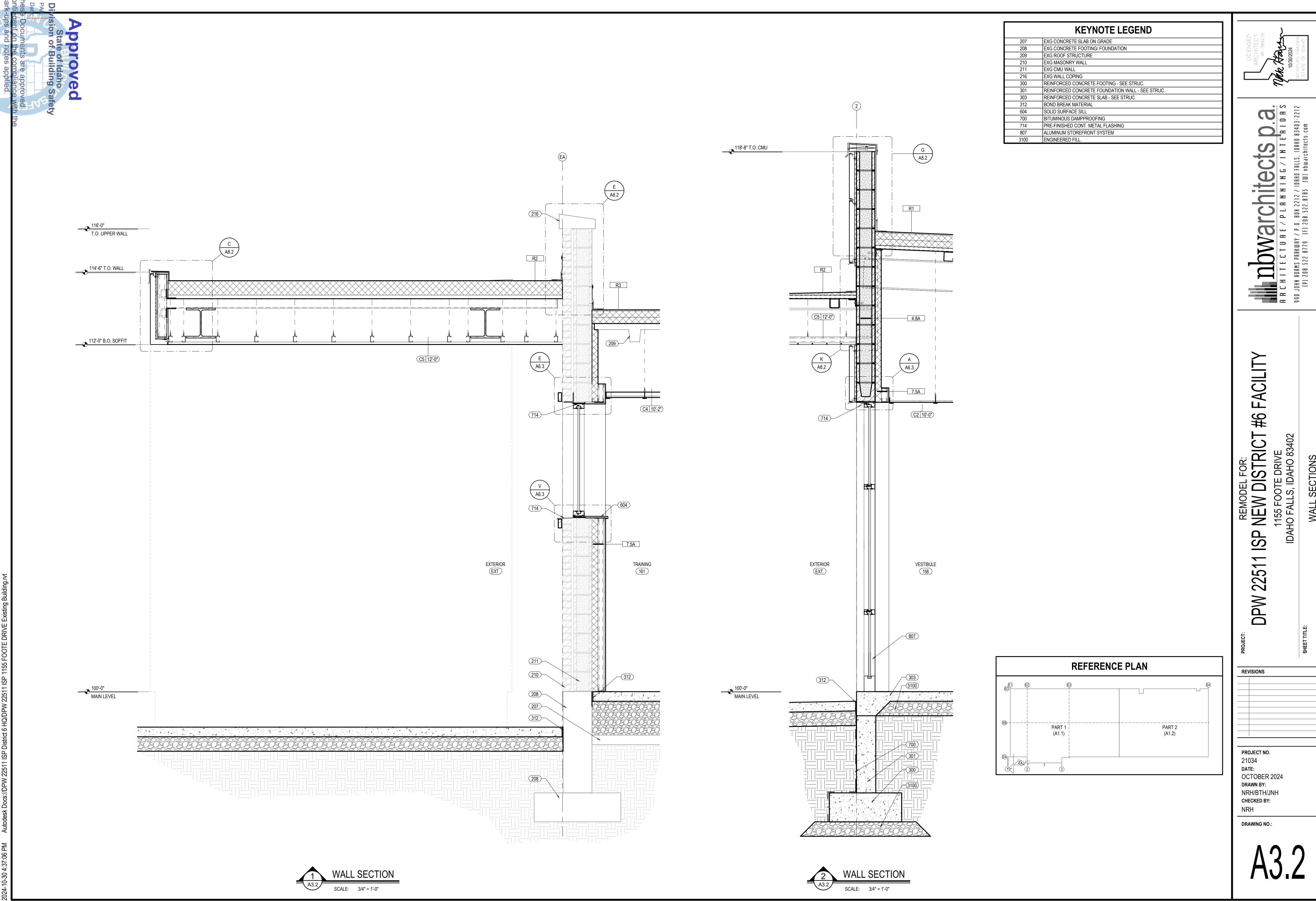
PROJECT NO. 21034 DATE: OCTOBER 2024 DRAWN BY: NRH/BTH/JNH CHECKED BY:

REVISIONS

DRAWING NO.:

SECURED— WAITING \ 104

SERGEANT

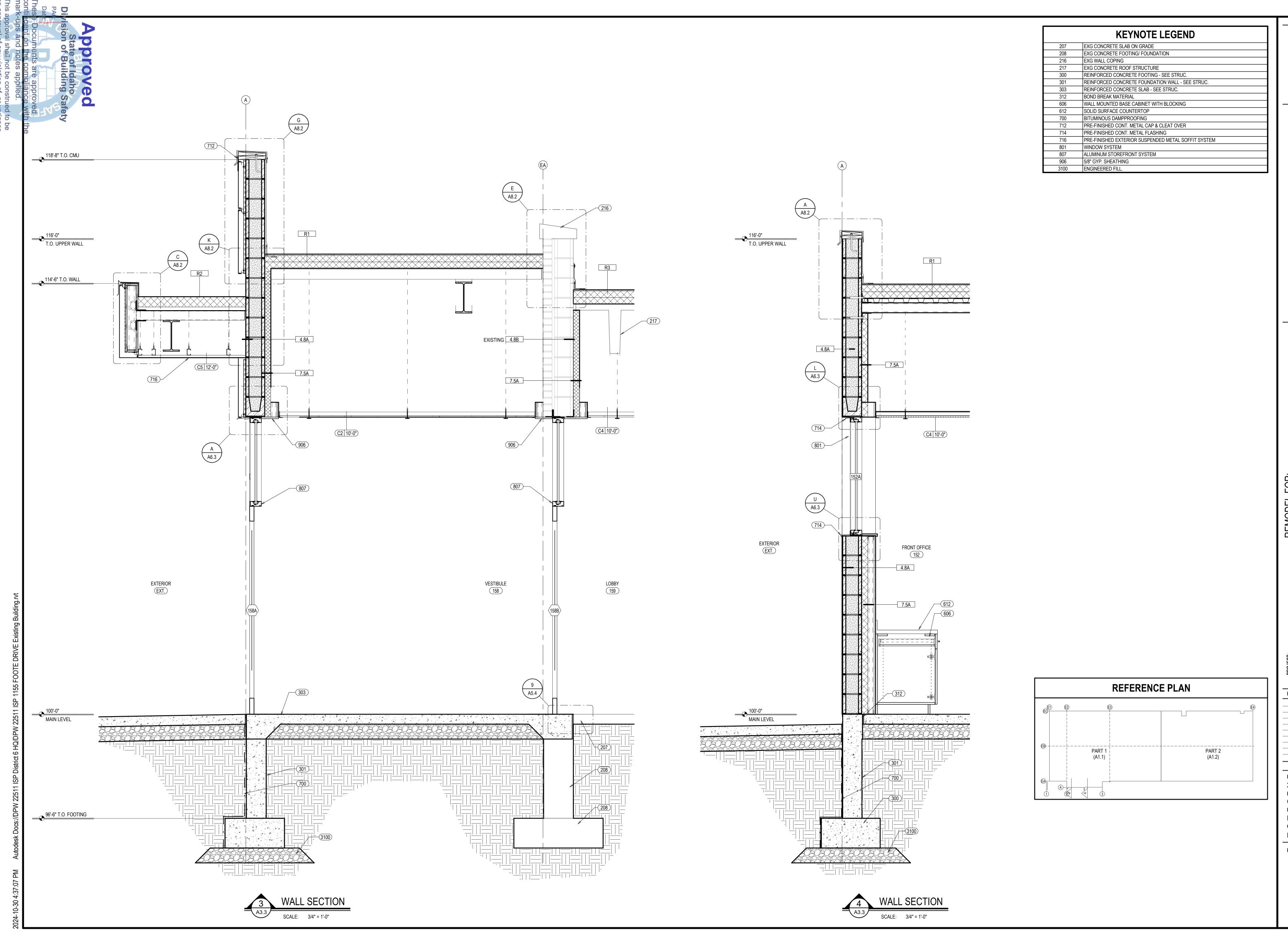


REVISIONS

DPW 22511 ISP NEW DISTRICT #6 FACILITY
1155 FOOTE DRIVE
IDAHO FALLS, IDAHO 83402

IONS

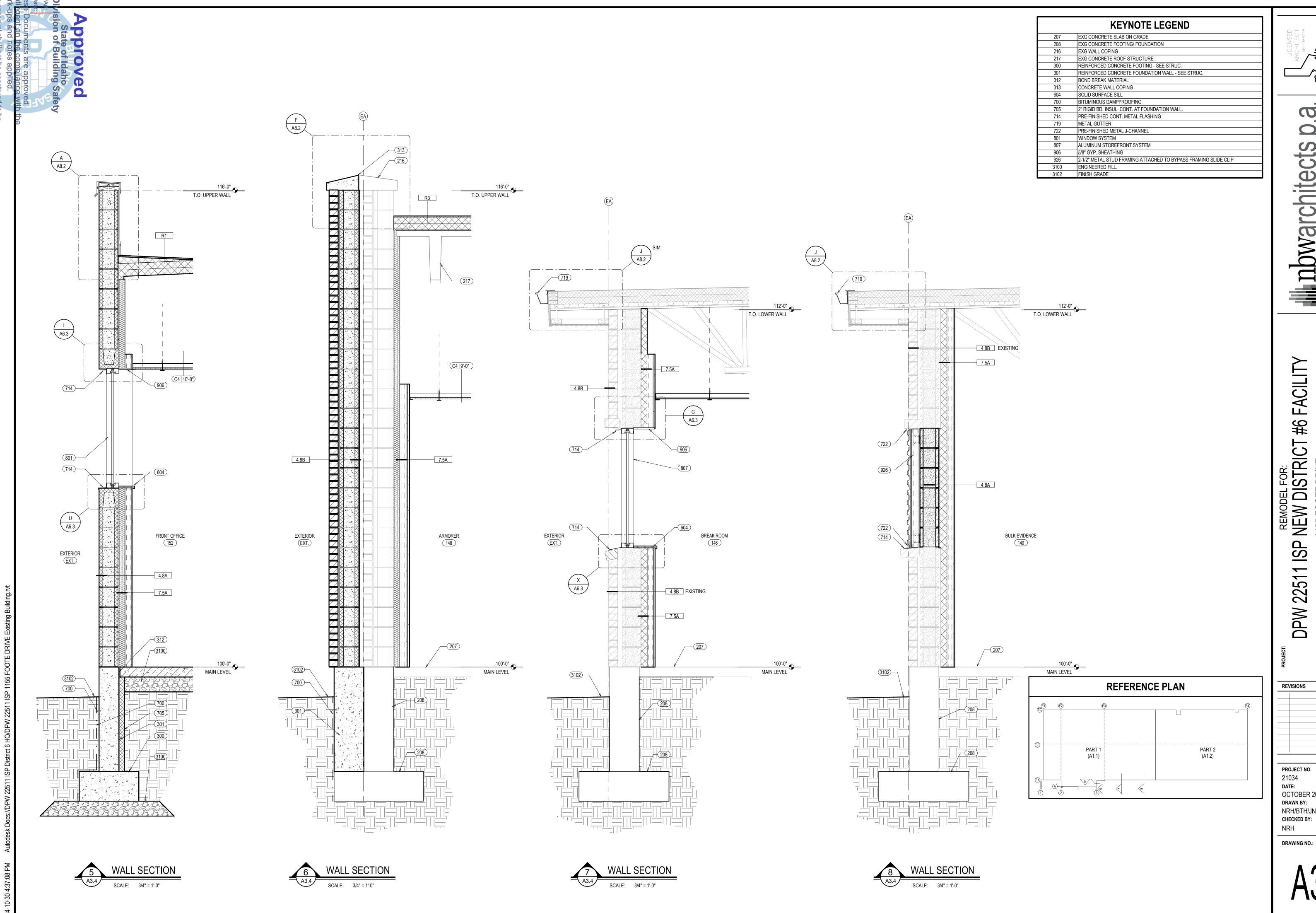
PROJECT NO. 21034 OCTOBER 2024 DRAWN BY: NRH/BTH/JNH CHECKED BY:



1 ISP NEW DISTRICT #6 FACILITY
1155 FOOTE DRIVE
IDAHO FALLS, IDAHO 83402 **DPW 22511**

REVISIONS PROJECT NO. 21034 DATE:

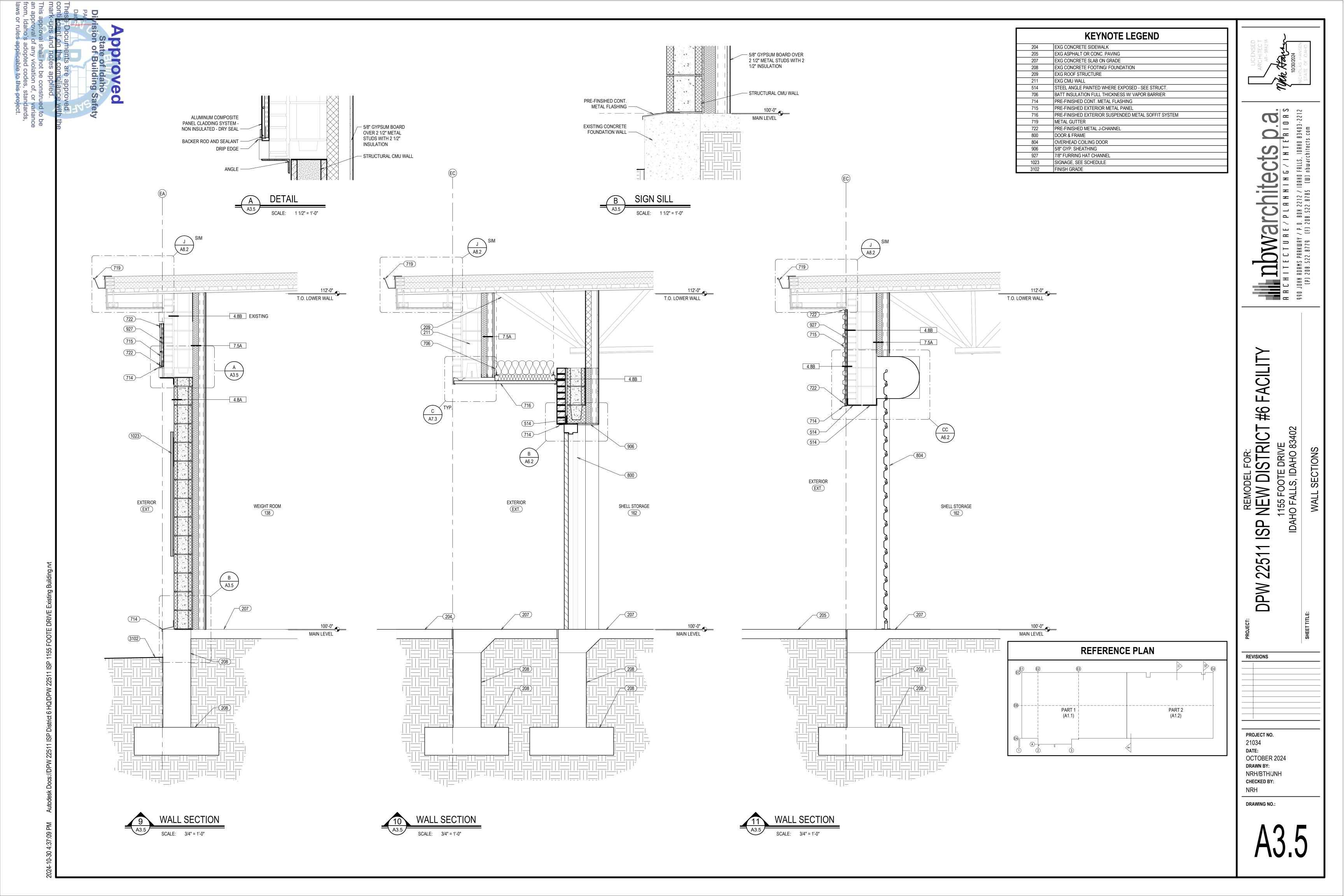
OCTOBER 2024 DRAWN BY: NRH/BTH/JNH CHECKED BY:

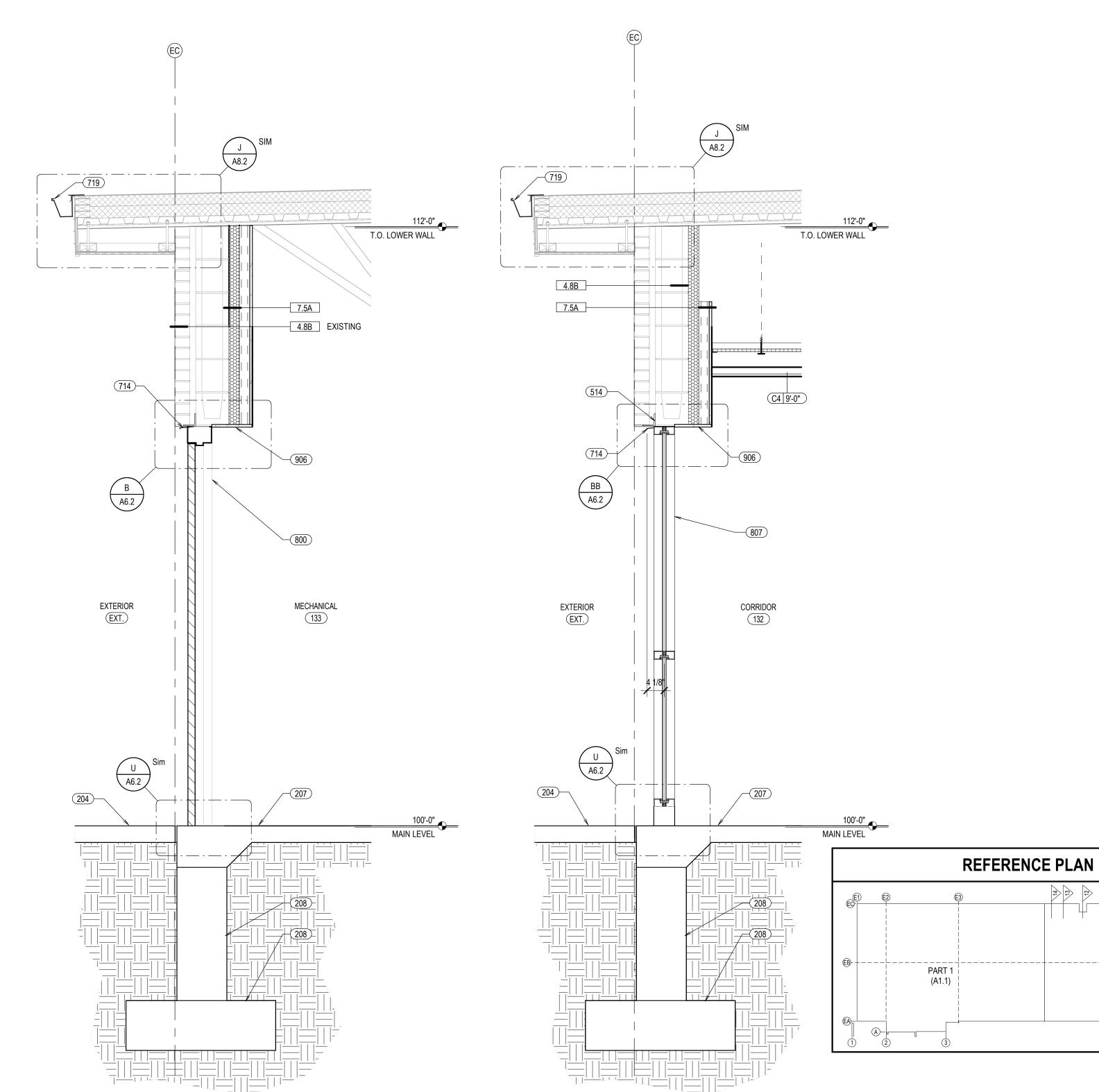


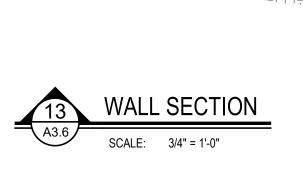
FACILITY 9# DPW 22511 ISP NEW DISTRICT #(1155 FOOTE DRIVE IDAHO 83402

PROJECT NO. OCTOBER 2024 DRAWN BY: NRH/BTH/JNH

CHECKED BY:







T.O. LOWER WALL

MAIN LEVEL

4.8B

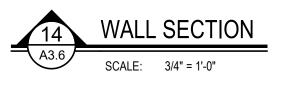
SHELL STORAGE

162

B A6.2

Sim A6.2

EXTERIOR EXT.



DPW 22511 ISP NEW DISTRICT #6 FACILITY
1155 FOOTE DRIVE
IDAHO FALLS, IDAHO 83402

REVISIONS

PROJECT NO. 21034 DATE: OCTOBER 2024 DRAWN BY: NRH/BTH/JNH

PART 2 (A1.2)

DRAWING NO.:

CHECKED BY:

C A7.3

WALL SECTION

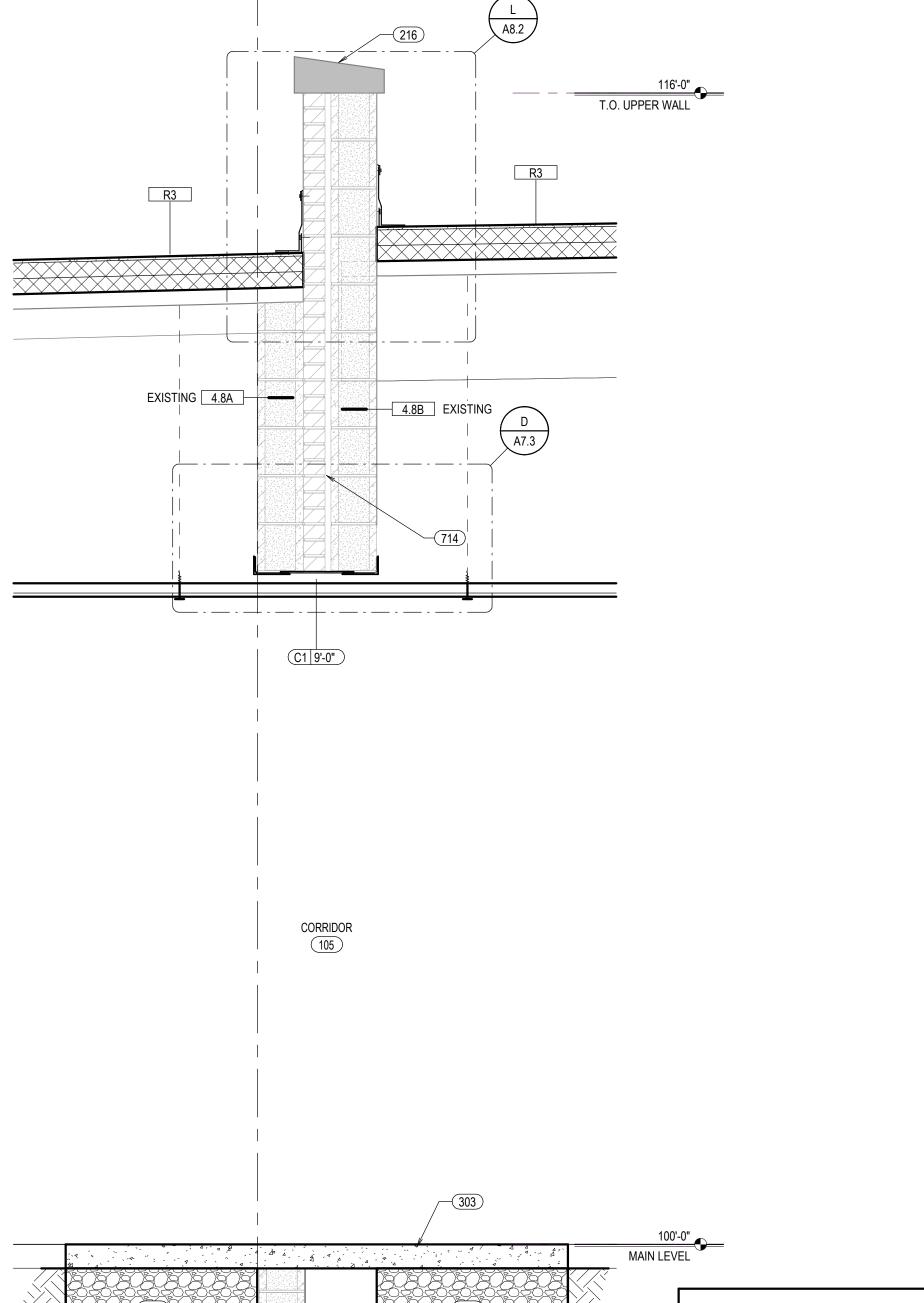
SCALE: 3/4" = 1'-0"

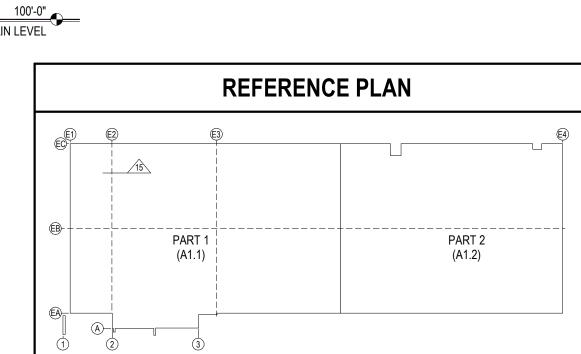
KEYNOTE LEGEND EXG CONCRETE FOOTING/ FOUNDATION
EXG MASONRY WALL EXG WALL COPING

REINFORCED CONCRETE FOOTING - SEE STRUC.

REINFORCED CONCRETE SLAB - SEE STRUC.

PRE-FINISHED CONT. METAL FLASHING







DPW 22511 ISP NEW DISTRICT #6 FACILITY
1155 FOOTE DRIVE
IDAHO FALLS, IDAHO 83402

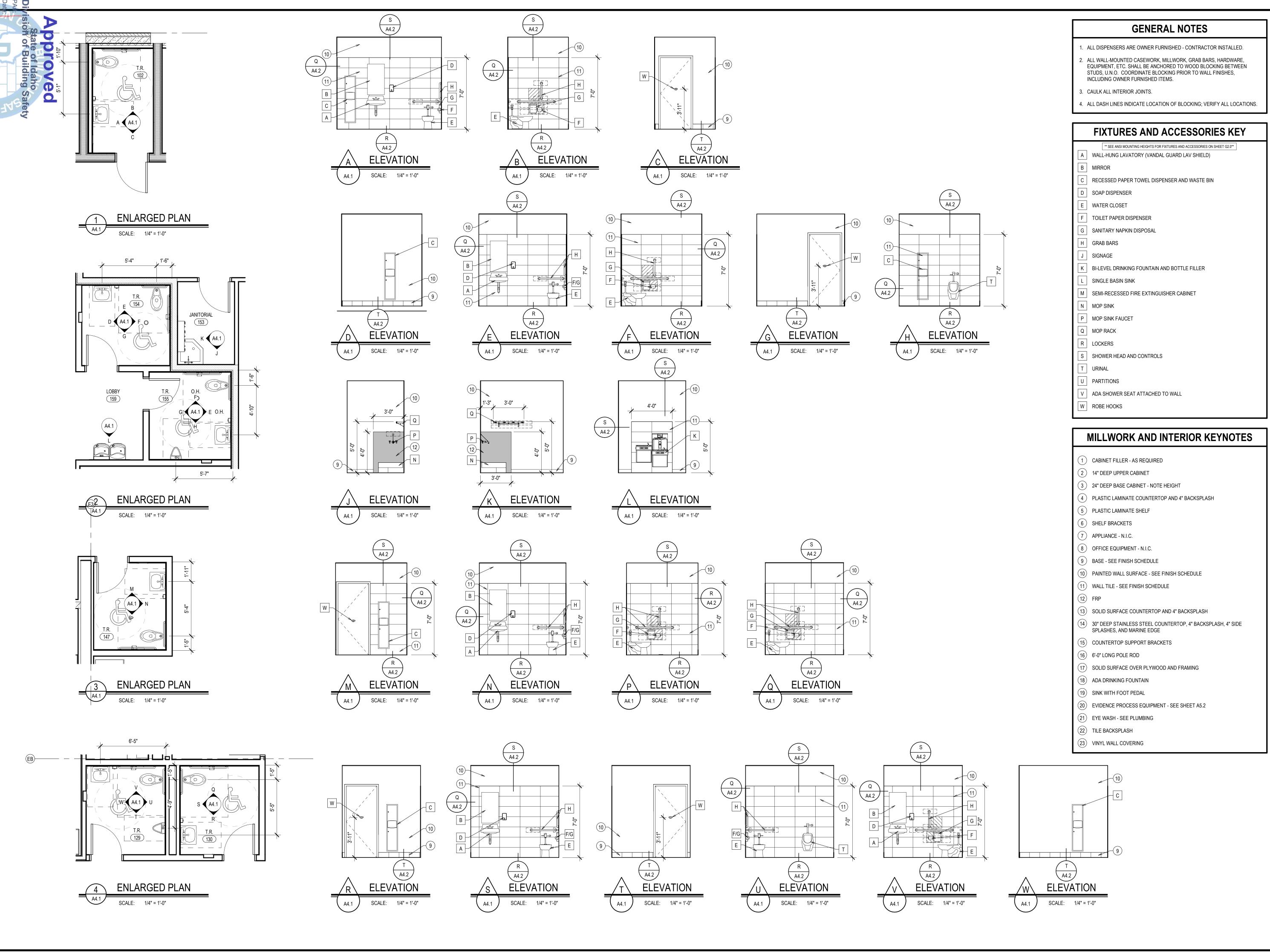
Thowarchitects D.a.

RRCHITECTURE/PLANNING/INTERIORS
990 JOHN RDRMS PARKWAY / P.O. BOX 2212 / IDRHO FALLS, IDRHO 83403-2212
(P) 208.522.8779 (F) 208.522.8785 (W) nbwarchitects.com

SNOL

REVISIONS

PROJECT NO. 21034 DATE: OCTOBER 2024 DRAWN BY: NRH/BTH/JNH CHECKED BY:



RECHITECTURE/

FACILITY

9#

REMODEL FOR:

ISP NEW DISTRICT #

1155 FOOTE DRIVE
IDAHO FALLS, IDAHO 83402

SP

DPW 22511

REVISIONS

PROJECT NO.

DRAWN BY: NRH/BTH/JNH

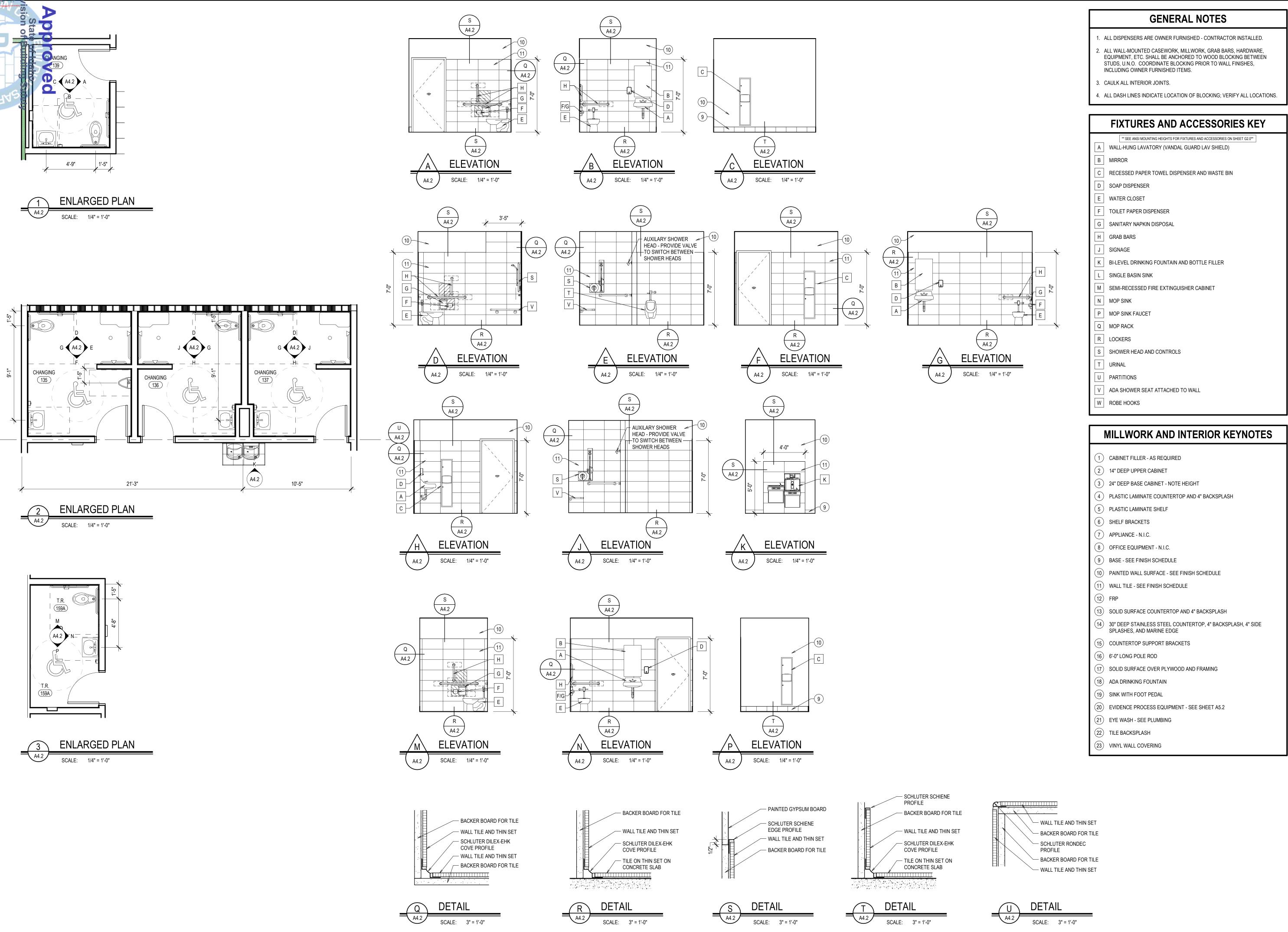
CHECKED BY:

OCTOBER 2024

21034

DATE:

ROOM PL



EB-

A B C H I T E C T U B E /

FACILITY

9#

REMODEL FOR:

ISP NEW DISTRICT #

1155 FOOTE DRIVE
IDAHO FALLS, IDAHO 83402

SP

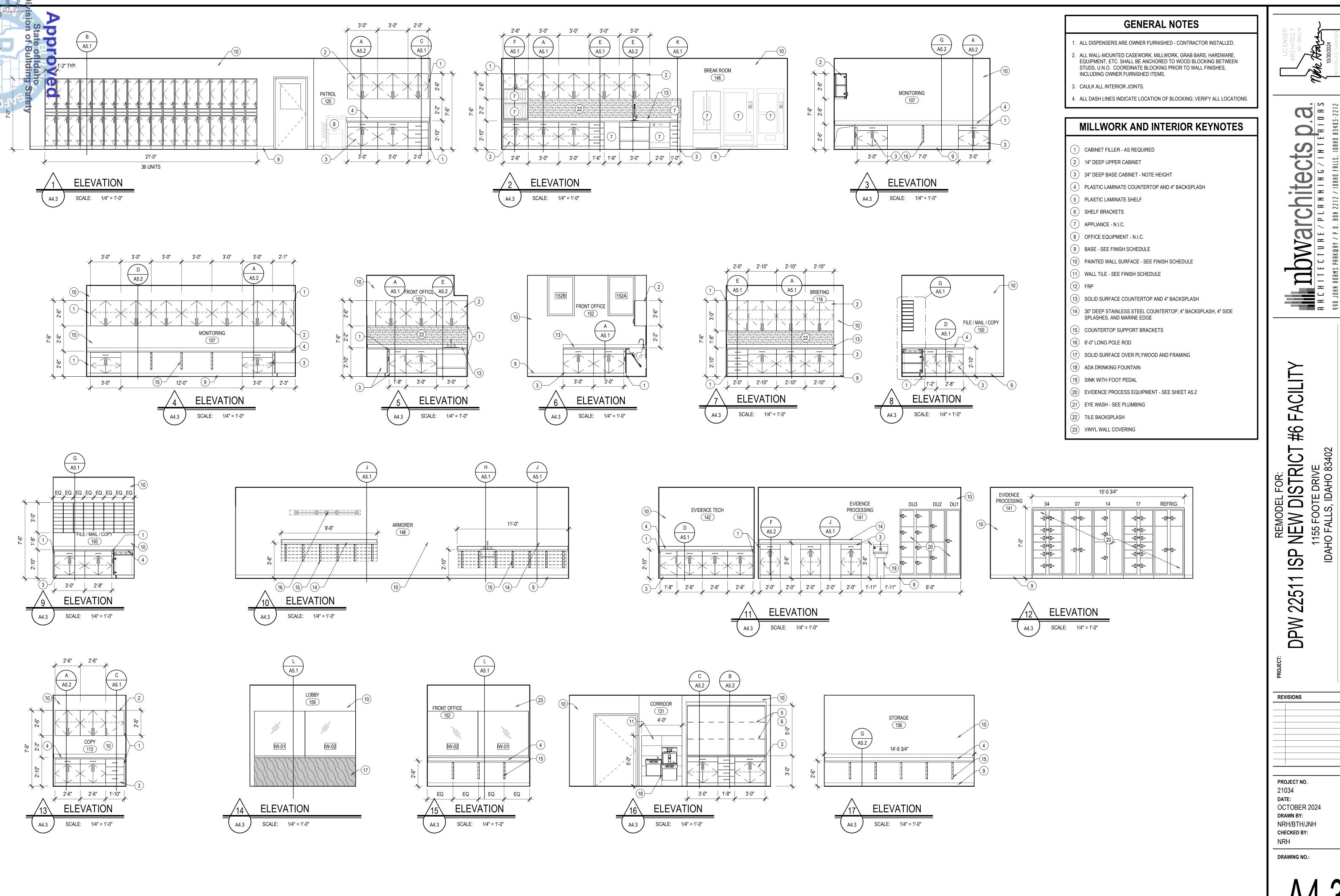
2251

DPW

REVISIONS

ROOM

PROJECT NO. 21034 DATE: OCTOBER 2024 DRAWN BY: NRH/BTH/JNH CHECKED BY:



Who Have

architects A P L R N N N G A I N T E

ARCHITECTURE/
990 JOHN RORMS PARKWAY / P.O.
(P) 208.522.8779 (F) 20

FACILITY

9#

DPW 22511

REVISIONS

PROJECT NO. 21034

DRAWN BY:

CHECKED BY:

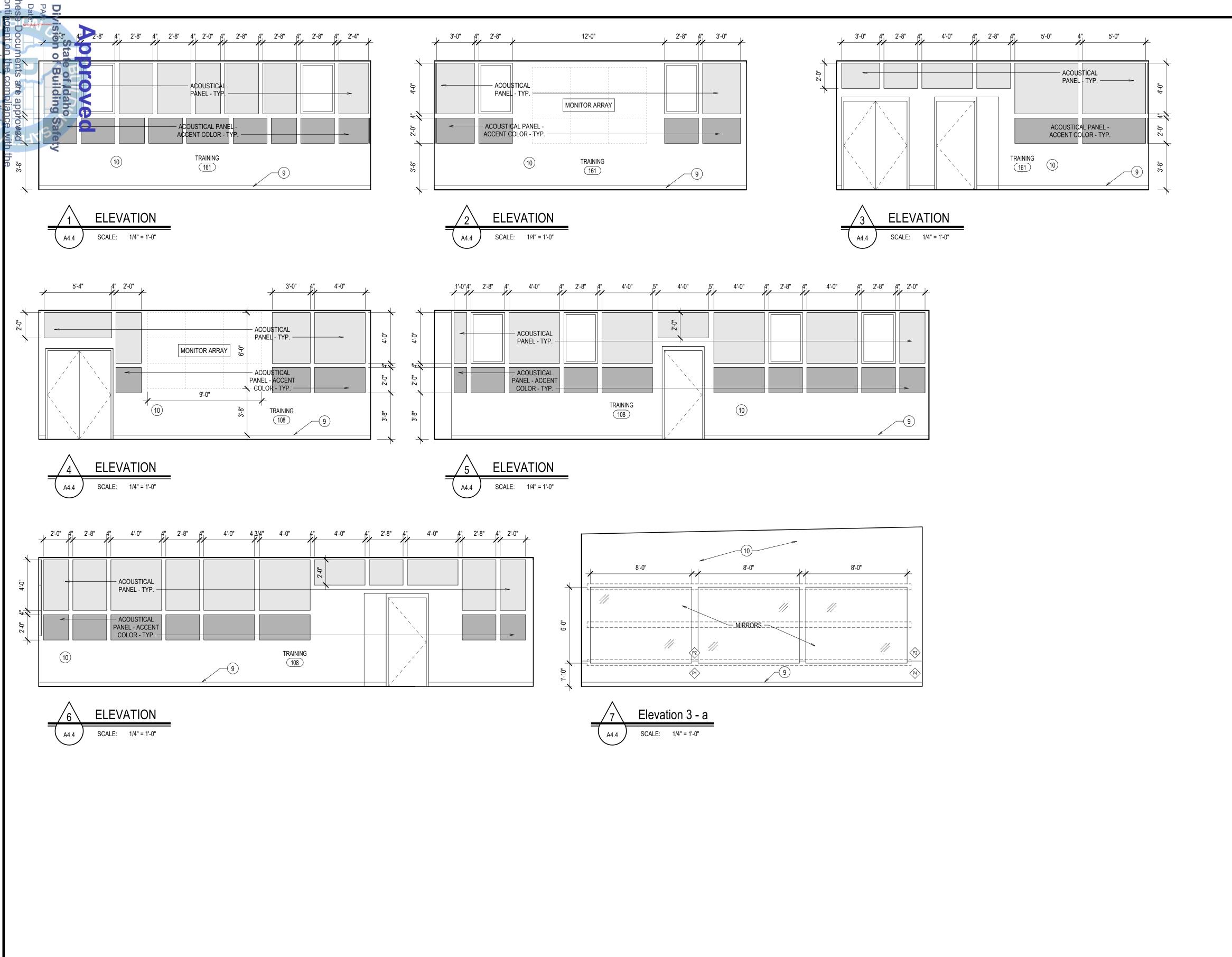
DRAWING NO.:

OCTOBER 2024

NRH/BTH/JNH

DATE:

INTERIOR ELE



GENERAL NOTES

- 1. ALL DISPENSERS ARE OWNER FURNISHED CONTRACTOR INSTALLED.
- 2. ALL WALL-MOUNTED CASEWORK, MILLWORK, GRAB BARS, HARDWARE, EQUIPMENT, ETC. SHALL BE ANCHORED TO WOOD BLOCKING BETWEEN STUDS, U.N.O. COORDINATE BLOCKING PRIOR TO WALL FINISHES, INCLUDING OWNER FURNISHED ITEMS.
- 3. CAULK ALL INTERIOR JOINTS.
- 4. ALL DASH LINES INDICATE LOCATION OF BLOCKING; VERIFY ALL LOCATIONS.

MILLWORK AND INTERIOR KEYNOTES

- (1) CABINET FILLER AS REQUIRED
- (2) 14" DEEP UPPER CABINET
- (3) 24" DEEP BASE CABINET NOTE HEIGHT
- (4) PLASTIC LAMINATE COUNTERTOP AND 4" BACKSPLASH
- (5) PLASTIC LAMINATE SHELF
- (6) SHELF BRACKETS
- (7) APPLIANCE N.I.C.
- (8) OFFICE EQUIPMENT N.I.C.
- (9) BASE SEE FINISH SCHEDULE
- (10) PAINTED WALL SURFACE SEE FINISH SCHEDULE
- (11) WALL TILE SEE FINISH SCHEDULE
- (13) SOLID SURFACE COUNTERTOP AND 4" BACKSPLASH
- (14) 30" DEEP STAINLESS STEEL COUNTERTOP, 4" BACKSPLASH, 4" SIDE SPLASHES, AND MARINE EDGE
- (15) COUNTERTOP SUPPORT BRACKETS
- (16) 6'-0" LONG POLE ROD
- (17) SOLID SURFACE OVER PLYWOOD AND FRAMING
- (18) ADA DRINKING FOUNTAIN
- (19) SINK WITH FOOT PEDAL
- (20) EVIDENCE PROCESS EQUIPMENT SEE SHEET A5.2
- (21) EYE WASH SEE PLUMBING
- 22) TILE BACKSPLASH
- (23) VINYL WALL COVERING

architects D.a.

E / P L A N N I N G / I N T E R I D R S

P.D. BOX 2212 / IDAHO FALLS, IDAHO 83403-2212

[F] 208.522.8785 [W] nbwarchitects.com HE DDWar RECHITECTURE / 990 JOHN RORMS PARKWAY / P.O. (P) 208.522.8779 (F) 20

FACILITY

9#

INTERIOR ELE

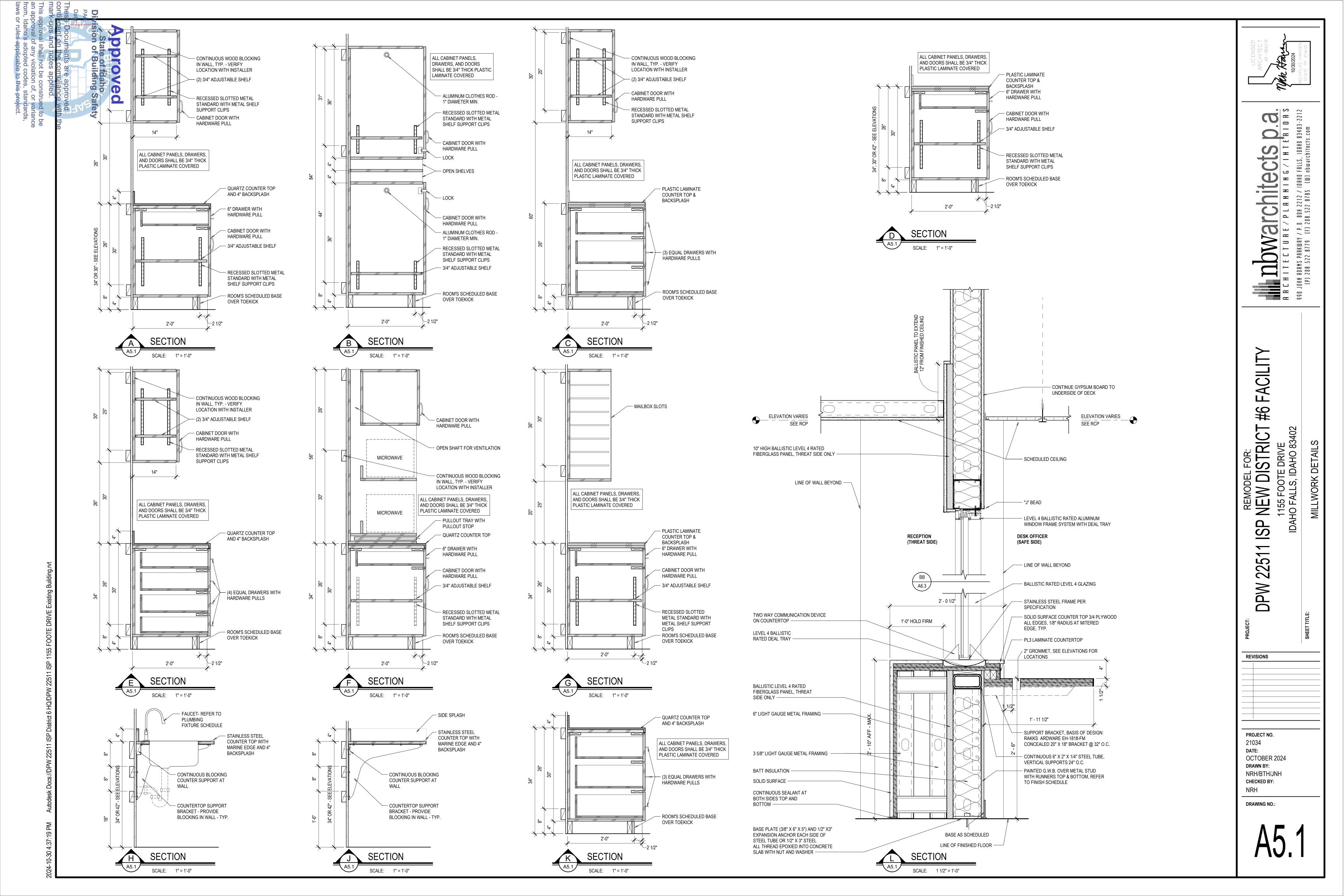
REMODEL FOR:

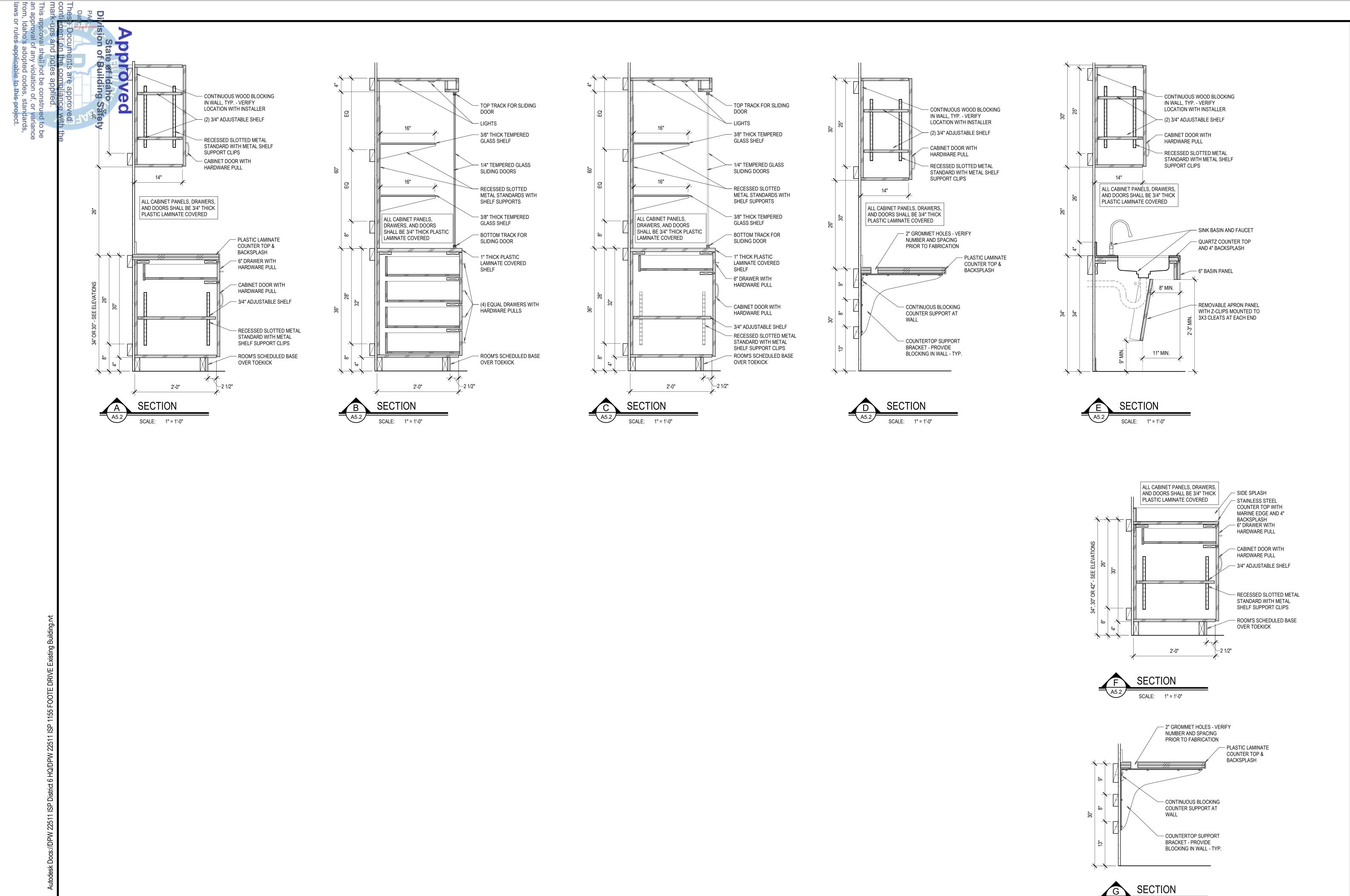
1 ISP NEW DISTRICT #

1155 FOOTE DRIVE
IDAHO FALLS, IDAHO 83402

DPW 2251'

PROJECT NO. 21034 DATE: OCTOBER 2024 NRH/BTH/JNH CHECKED BY:

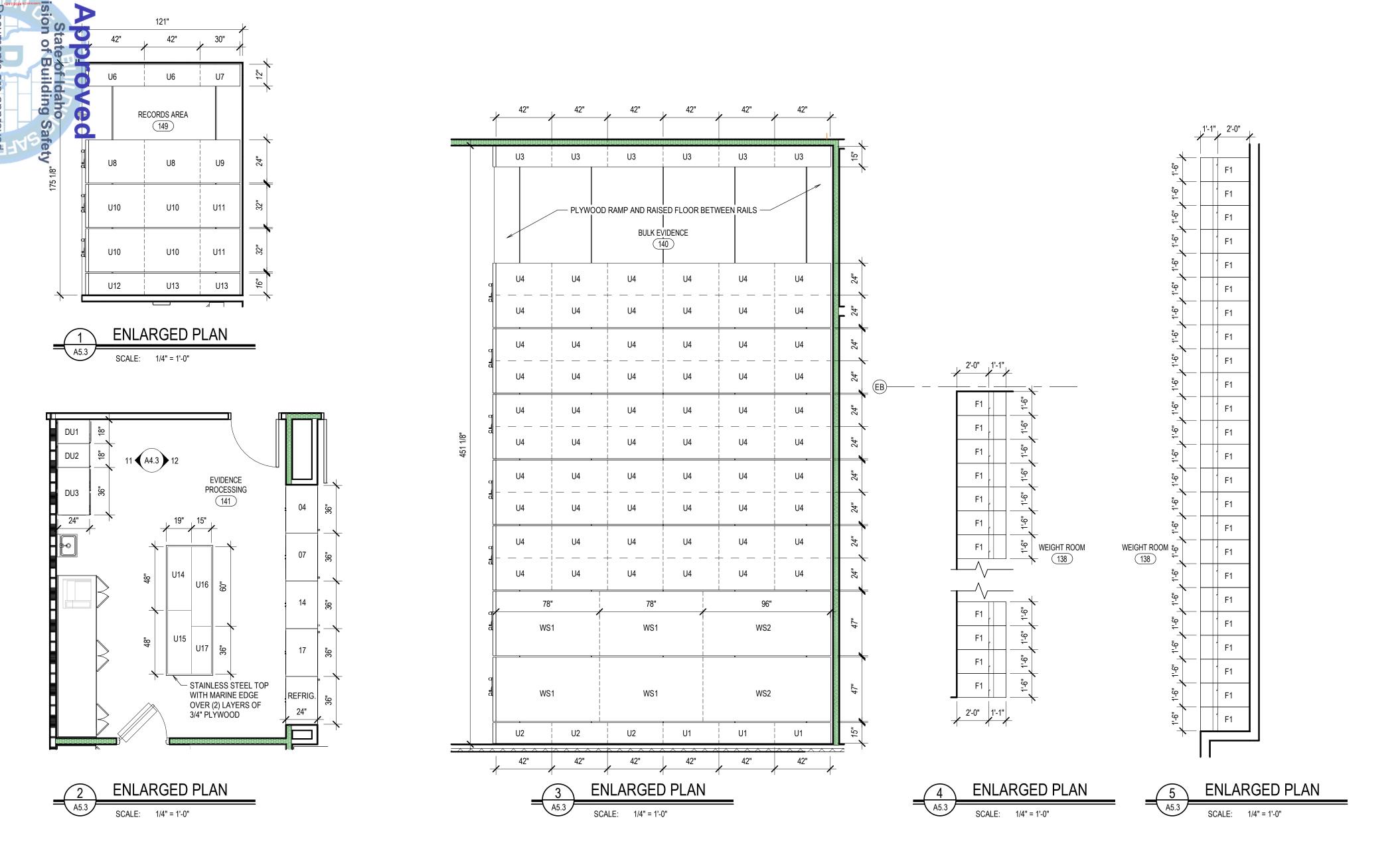




FACILITY 9# ISP NEW DISTRICT # 1155 FOOTE DRIVE IDAHO FALLS, IDAHO 83402 ISP 225 DPW

REVISIONS PROJECT NO. 21034 DATE:

OCTOBER 2024 DRAWN BY: NRH/BTH/JNH CHECKED BY: NRH



U 8-B

U 9-B

H80" 72" x 18" x 24"

U 10-B

(2) HOOKS ON SIDES OF MODULAR SHELF, (1) HOOK ON THE INSIDE OF EACH DOOR.

NO POWER OR HVAC NEEDED

U 11-B

ROUSSEAU DRAWERS NO LOCKS —

78" x 47"

WS 1

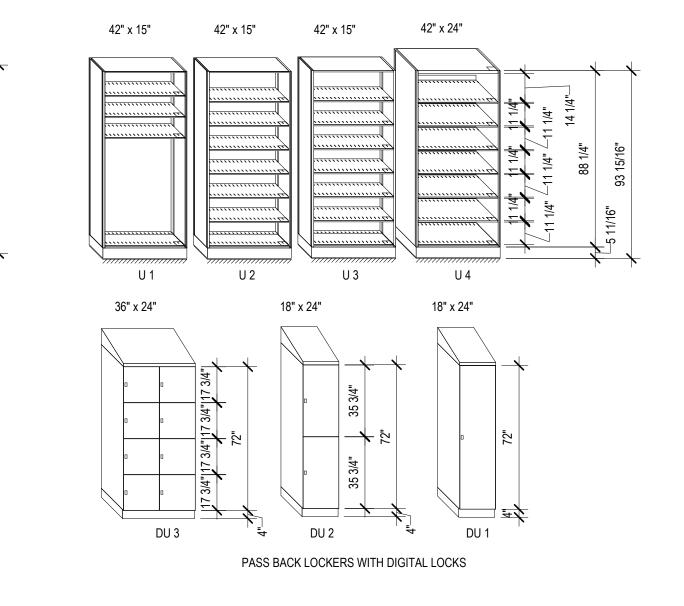
U 15

U 16

84" x 47"

WS 2

36" x 15"



DPW 22511 ISP NEW DISTRICT #6 FACILITY
1155 FOOTE DRIVE
IDAHO FALLS, IDAHO 83402 FIX EQUIPMENT REVISIONS PROJECT NO. 21034 DATE: OCTOBER 2024 DRAWN BY: NRH/BTH/JNH CHECKED BY: NRH DRAWING NO.:

42" x 24"

U 9-F

36" x 24"

U 10-F

36" x 24"

14 9/16"

U 11-F

30" x 12"

36" x 24"

42" x 12"

42" x 16"

U 12

36" x 24"

32 9/16"

17

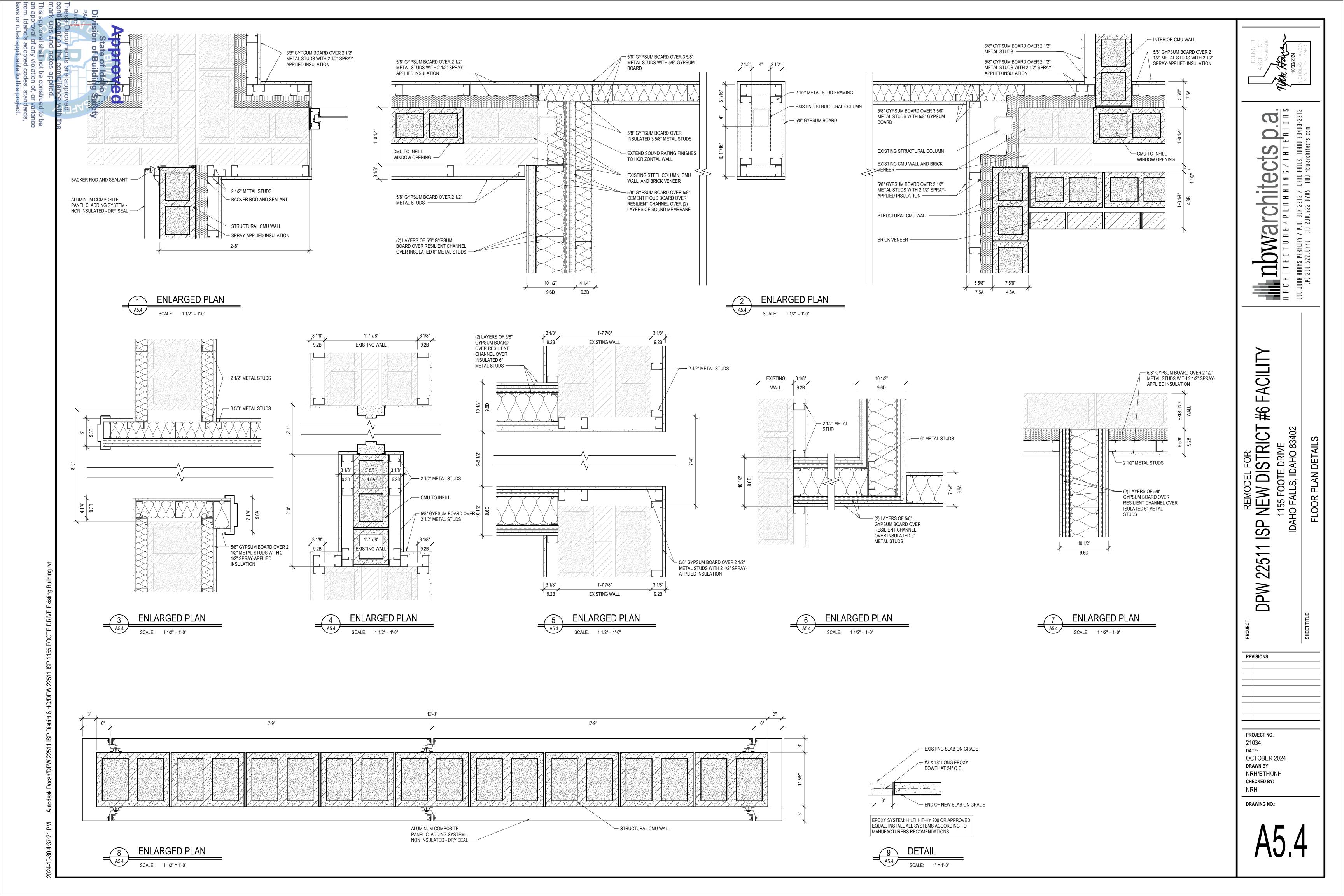
30" x 16"

U 13

36" x 24"

REFRIGERATED

SCHEDULE



Dat nes	PA	2															
12/17/2024	4 BLD2410-00070																
OCIII	000	S				DOOR	SC	HE	DU	E							
-	0	AT	LOCATI	ION		IZE				MATE	-RIAI_	FR/	AME	Γ	<u> </u>	Γ	ТВ
DOOR NUMBER	7	O FIO		TO			PAIR	TYPE	TYPE	IVII V.	-1 \(1 \)		NVIL.		DIING		HARDWARE GROUP
NUM NUM		9	#_	ш	Ē '	봈	용	ŘΤΥ	 - -	씽	ME	AD	AB	SILL	HAN	REMARKS	
900R	ROOM#	NAME D	ROOM	NAME	WIDTH	HEIGHT	SINGLE	DOOR	FRAME	DOOR	FRAME	HEAD	JAMB		DOOR HANDING		MQ?
20			<u>~</u>		<u> </u>	<u> </u>	S								۵		HAF
MAIN L 5 101	EVEL C		104	SECURED WAITING	3'-0"	7'-0"	S	Α	3	WD	НМ	A/A6.2	M/A6.2	T/A6.2		ACOUSTIC - STC 52	
\$ 102	102		105	CORRIDOR	3'-0"	7'-0"	S	A	3	WD	HM	A/A6.2	M/A6.2	T/A6.2		ACOUSTIC - STC 52	
2103	103 (1		105	CORRIDOR	3'-0"	7'-0"	S	A	3	WD	HM	A/A6.2	M/A6.2	T/A6.2		ACOUSTIC - STC 52	
104	EXT.	EXTERIOR EXTERIOR	104 105	SECURED WAITING CORRIDOR	3'-0" 3'-0"	7'-0" 7'-0"	S	A	1	HM HM	HM HM	B/A6.2 B/A6.2	G/A6.2 G/A6.2	U/A6.2 U/A6.2		45 MINUTE FIRE RATING	
106	106	STORAGE	108	TRAINING	2'-6"	7'-0"	Р	A	3	WD	НМ	C/A6.2	H/A6.2	V/A6.2		BALLISTIC UL LEVEL IV	
107	107	MONITORING	110	INVESTIGATIONS	3'-0"	7'-0"	S	A	1	WD	HM	C/A6.3	K/A6.3	W/A6.2		45 MAIN ITE CIDE DATING	
108A 108B	EXT. 108	EXTERIOR TRAINING	108 159	TRAINING LOBBY	3'-0" 3'-0"	7'-0" 7'-0"	S	A	1	HM WD	HM HM	L/A6.2 C/A6.3	S/A6.2 K/A6.3	U/A6.2 V/A6.2		45 MINUTE FIRE RATING	
109	109	SERGEANT	110	INVESTIGATIONS	3'-0"	7'-0"	S	D	8	AL	AL	N/A6.2	P/A6.2	F/A6.2			
110A	105	CORRIDOR INVESTIGATIONS	110	INVESTIGATIONS CORRIDOR	3'-0" 3'-6"	7'-0" 7'-0"	S	A	3	WD	HM HM	A/A6.2 D/A6.2	M/A6.2 J/A6.2	T/A6.2 W/A6.2		ACOUSTIC - STC 52	
110B 111	110 110	INVESTIGATIONS	131 111	SERGEANT	3'-0"	7'-0"	S	A D	8	AL	AL	D/A6.2 N/A6.2	J/A6.2 P/A6.2	F/A6.2			
112	110	INVESTIGATIONS	112	ADMIN	3'-0"	7'-0"	S	D	8	AL	AL	N/A6.2	P/A6.2	F/A6.2			
114	110	INVESTIGATIONS	114	SERGEANT	3'-0"	7'-0"	S	D	8	AL	AL	N/A6.2	P/A6.2	F/A6.2			
115 116A	110 110	INVESTIGATIONS INVESTIGATIONS	115 116	LIEUTENANT BRIEFING	3'-0" 3'-0"	7'-0" 7'-0"	S	D A	7	AL WD	AL HM	N/A6.2 AA/A6.2	P/A6.2 HH/A6.2	F/A6.2 W/A6.2			
116B	116	BRIEFING	120	PATROL	3'-0"	7'-0"	S	A	1	WD	НМ	B/A6.3	J/A6.3	W/A6.2			
116C	116	BRIEFING	131	CORRIDOR	3'-0"	7'-0"	S	A	3	WD	HM	AA/6.2	HH/A6.2	W/A6.2			
117 118	117 118	CAPTAIN SERGEANT	120 120	PATROL PATROL	3'-0" 3'-0"	7'-0" 7'-0"	S	D D	8	AL AL	AL AL	N/A6.2 N/A6.2	P/A6.2 P/A6.2	F/A6.2 F/A6.2			
119	119	SERGEANT	120	PATROL	3'-0"	7'-0"	S	D	8	AL	AL	N/A6.2	P/A6.2	F/A6.2			
120A	EXT.	EXTERIOR	120	PATROL	3'-0"	7'-0"	S	D	6	AL	AL	BB/A6.2	JJ/A6.2	X/A6.2			
120B 121	120 120	PATROL PATROL	131 121	CORRIDOR SERGEANT	3'-6" 3'-0"	7'-0" 7'-0"	S	A D	8	WD AL	HM AL	D/A6.2 N/A6.2	J/A6.2 P/A6.2	W/A6.2 F/A6.2			
122	120	PATROL	122	SERGEANT	3'-0"	7'-0"	S	D	8	AL	AL	N/A6.2	P/A6.2	F/A6.2			
123	120	PATROL	123	SERGEANT	3'-0"	7'-0"	S	D	8	AL	AL	N/A6.2	P/A6.2	F/A6.2			
124 125	120 125	PATROL LIEUTENANT	124 120	SERGEANT PATROL	3'-0" 3'-0"	7'-0" 7'-0"	S	D D	7	AL AL	AL AL	N/A6.2 N/A6.2	P/A6.2 P/A6.2	F/A6.2 F/A6.2			
126	120	PATROL	126	COMM. VEHICLE SAFETY DIVISION	3'-0"	7'-0"	S	С	3	WD	HM	D/A6.2	J/A6.2	W/A6.2			
127	120	PATROL	127	OFFICE	3'-0"	7'-0"	S	С	3	WD	HM	D/A6.2	J/A6.2	W/A6.2			
128 129	128 129	STORAGE T.R.	132 131	CORRIDOR CORRIDOR	3'-0" 3'-0"	7'-0" 7'-0"	S	C	3	WD	HM HM	AA/6.2 E/A6.2	HH/A6.2 K/A6.2	W/A6.2 W/A6.2			
130	130	T.R.	131	CORRIDOR	3'-0"	7'-0"	S	A	3	WD	HM	E/A6.2	K/A6.2	W/A6.2			
131	131	CORRIDOR	159	LOBBY	3'-0"	7'-0"	S	Α	3	WD	НМ	C/A6.2	H/A6.2	V/A6.2		BALLISTIC UL LEVEL IV	
132 133A	EXT. 132	EXTERIOR CORRIDOR	132 133	CORRIDOR MECHANICAL	4'-0" 4'-0"	7'-0" 7'-0"	S	D A	5	AL WD	AL HM	BB/A6.2 E/A6.2	JJ/A6.2 K/A6.2	X/A6.2 W/A6.2		45 MINUTE FIRE RATING	
133A	EXT.	EXTERIOR	133	MECHANICAL	2'-10"	7'-10"	P	A	3	HM	HM	B/A6.2	G/A6.2	U/A6.2		40 IVIIIVOTETTILETVATIA	
135	135	CHANGING	138	WEIGHT ROOM	3'-0"	7'-0"	S	Α	3	WD	НМ	E/A6.2	K/A6.2	W/A6.2			
136 137	136 137	CHANGING CHANGING	138 138	WEIGHT ROOM WEIGHT ROOM	3'-0" 3'-0"	7'-0" 7'-0"	S	A	3	WD	HM HM	E/A6.2 E/A6.2	K/A6.2 K/A6.2	W/A6.2 W/A6.2			
138A	137	CORRIDOR	138	WEIGHT ROOM WEIGHT ROOM	3'-6"	7'-0"	S	В	3	WD	HM	E/A6.2 E/A6.2	K/A6.2	W/A6.2 W/A6.2			
138B	138	WEIGHT ROOM	162	SHELL STORAGE	3'-0"	7'-0"	Р	В	3	WD	НМ	E/A6.2	K/A6.2	W/A6.2			
139 140	138 131	WEIGHT ROOM CORRIDOR	139 140	CHANGING BULK EVIDENCE	3'-0" 4'-0"	7'-0" 7'-0"	S	A	3	WD	HM HM	E/A6.2 Y/A6.3	K/A6.2 Z/Z6.3	W/A6.2 W/A6.2			
141	131	CORRIDOR	140	EVIDENCE PROCESSING	3'-0"	7'-0"	S	В	3	WD	HM	D/A6.2	J/A6.2	W/A6.2			
142A	141	EVIDENCE PROCESSING	142	EVIDENCE TECH	3'-0"	7'-0"	S	Е	3	WD	НМ	Y/A6.3	Z/Z6.3	W/A6.2		DUTCH DOOR	
142B 143	140 140	BULK EVIDENCE BULK EVIDENCE	142 143	EVIDENCE TECH NARCOTICS	3'-0" 3'-0"	7'-0" 7'-0"	S	Α	3	HM HM	HM HM	Y/A6.3 Y/A6.3	Z/Z6.3 Z/Z6.3	W/A6.2 W/A6.2			
143	131	CORRIDOR	143	DATA	4'-0"	7'-0"	S	A	3	WD	HM	P/A6.3 D/A6.2	J/A6.2	W/A6.2 W/A6.2		45 MINUTE FIRE RATING	
145	145	STORAGE	146	BREAK ROOM	3'-0"	7'-0"	S	Α	3	WD	НМ	D/A6.2	J/A6.2	W/A6.2			
147 148	131 131	CORRIDOR CORRIDOR	147 148	T.R. ARMORER	3'-0" 4'-0"	7'-0" 7'-0"	S	A	3	WD	HM HM	E/A6.2 Z/A6.2	K/A6.2 FF/A6.2	W/A6.2 W/A6.2			
151	151	SUPERVISOR	152	FRONT OFFICE	3'-0"	7-0"	S	D	7	AL	AL	N/A6.2	P/A6.2	F/A6.2			
152	131	CORRIDOR	152	FRONT OFFICE	3'-0"	7'-0"	S	A	3	WD	НМ	D/A6.2	J/A6.2	W/A6.2			
153	131 159	CORRIDOR LOBBY	153 154	JANITORIAL T.R.	3'-0" 3'-0"	7'-0" 7'-0"	S	A	3	WD	HM HM	D/A6.2 E/A6.2	J/A6.2 K/A6.2	W/A6.2 W/A6.2			
154 155	159	T.R.	154	LOBBY	3'-0"	7'-0"	S	A	3	WD	HM	E/A6.2 E/A6.2	K/A6.2 K/A6.2	W/A6.2 W/A6.2			
156A	156	STORAGE	159	LOBBY	3'-6"	7'-0"	S	A	3	WD	НМ	D/A6.2	J/A6.2	W/A6.2			
156B	152	FRONT OFFICE	156	STORAGE	3'-6"	7'-0"	S	A	3	WD	HM	C/A6.2	H/A6.2	V/A6.2		BALLISTIC UL LEVEL IV	
157 158A	159 EXT.	LOBBY EXTERIOR	157 158	INTERVIEW VESTIBULE	3'-0" 3'-0"	7'-0" 7'-0"	S P	A D	4	WD AL	HM AL	Q/A6.3 A/A6.3	R/A6.3 H/A6.3	W/A6.2 X/A6.2		ACOUSTIC - STC 52	
158B	158	VESTIBULE	159	LOBBY	3'-0"	7'-0"	Р	D	4	AL	AL	DD/A6.2	LL/A6.2	F/A6.2			
159A	159A	T.R.	159	LOBBY	3'-0"	7'-0"	S	Α	3	WD	HM	E/A6.2	K/A6.2	W/A6.2			

2'-6" 7'-0" P A 1 WD HM C/A6.3 D/A6.3 W/A6.2

3'-0" 7'-0" S A 1 HM HM C/A6.3 K/A6.3 W/A6.2

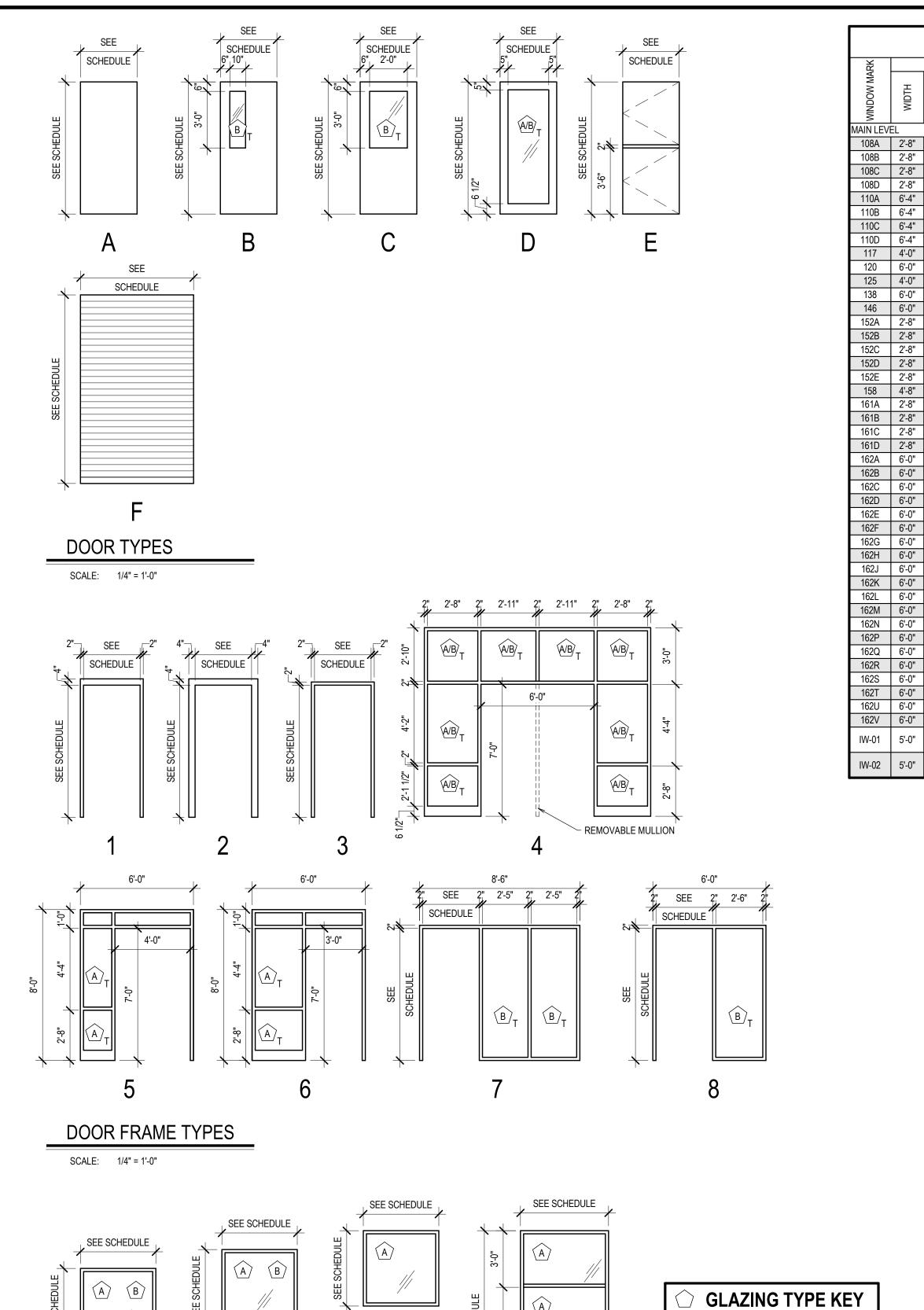
12'-0" 8'-0" S F N/A MTL MTL CC/A6.2 KK/A6.2 N/A

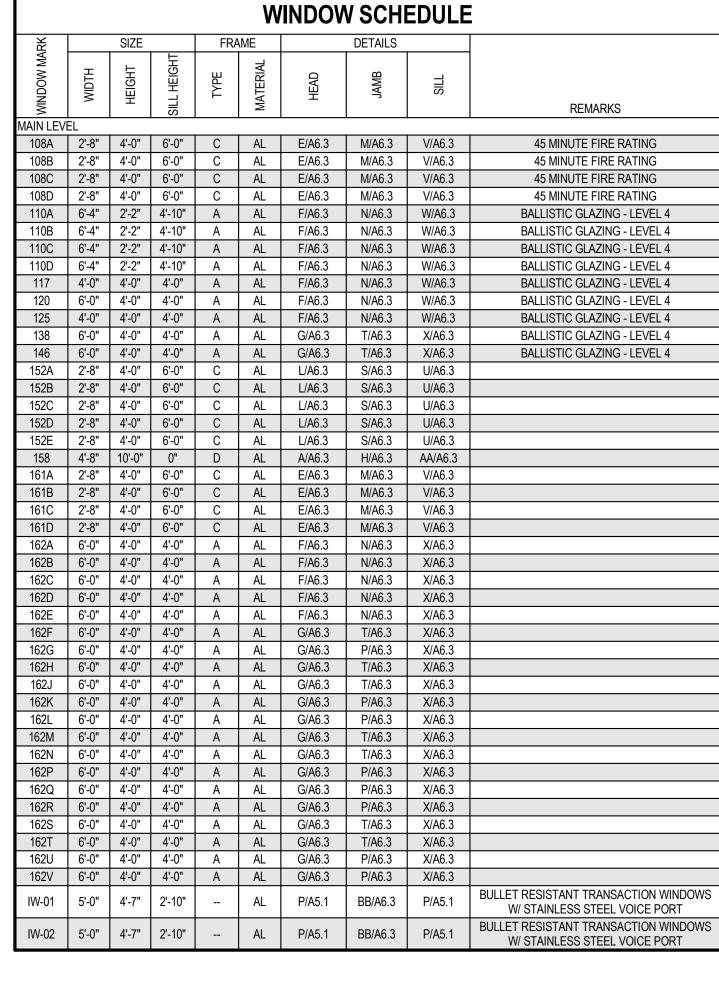
STEEL COILING DOOR

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

3'-0" 7'-0" S A 1 HM HM B/A6.2 G/A6.2 U/A6.2

3'-0" 7'-0" S A 1 HM HM B/A6.2 G/A6.2 U/A6.2





GENERAL NOTES

- REFER TO FINISH SCHEDULE FOR ALL FINISH MATERIAL AND FINISH
- HOLLOW METAL FRAMES IN CMU/CONCRETE WALLS TO BE BITUMINOUS BACK COATED AND GROUT FILLED. PROVIDE CONDUIT RACEWAYS FOR ELECTRONIC WIRING PRIOR TO FRAME GROUTING. PROVIDE ADDITIONAL STIFFENING / SUPPORT AS RECOMMENDED BY THE DOOR / FRAME MANUFACTURER.
 - REFER TO TECHNOLOGY SHEETS FOR EXACT LOCATIONS OF CARD
- 4. ALL DOORS TO BE 1 3/4" UNLESS NOTED OTHERWISE.
- 5. FIELD VERIFY ALL DIMENSIONS.
- 6. FIRE RATED GLAZING SHALL NOT BE WIRED GLASS. 7. SOUND ATTENUATED DOORS TO HAVE A MINIMUM STC 50 RATING UNLESS NOTED OTHERWISE.
- 8. FOR SOUND ATTENUATED DOORS DO NOT UNDERCUT MORE THAN 3/4". SEE SPECIFICATIONS. 9. CONTRACTOR TO COORDINATE DOORS & FRAMES WITH HARDWARE,
- SECURITY DEVICES, POWER AND RELATED ITEMS TO ENSURE COMPLETE INSTALLATION AND FUNCTIONAL OPERATION. 10. ALL MOTORIZED OVERHEAD COILING DOORS TO HAVE MANUAL OVERRIDE.
- 11. REFER TO SITE PLAN SHEET SD1.1 FOR GATE LOCATIONS

DOOR SCHEDULE ABBREVIATIONS

- AL = ALUMINUM
- ANOD = ANODIZED BR = BIOMETRIC READER ACCESS CONTROL
- CR = CARD READER ACCESS CONTROL CK = CARD READER KEY PAD ACCESS CONTROL
- DBL = DOUBLE DOORS
- DPS = DOOR POSITION SWITCH EM = ELECTRIC MORTISE LOCK
- F = FLUSH
- FG = FULL GLASS FR = FIRE RATED
- G = GATE
- GLZ = GLAZING
- HM = HOLLOW METAL L = LOUVER
- MTL = METAL, SEE MANUFACTURER NOTES N/A = NOT APPLICABLE
- OHC = OVERHEAD COILING DOOR OHSD = OVERHEAD SECTIONAL DOOR
- PLAM = PLASTIC LAMINATE PT = PAINT
- STL = GALVANIZED STEEL
- SC = SOLID CORE WOOD DOOR SG = SLIDE GATE
- STC = SOUND TRANSMISSION COEFFICIENT WD = WOOD
- X = INDICATES LABEL, CLOSER OR ELECT. LOCK IS INCLUDED

PROJECT NO. 21034

architects

E / P L A N N I N G / I N
P.O. BOX 2212 / IDAHO FALLS, 10

RECHITECTUR

990 JOHN ROAMS PARKWAY 7

(P) 208.522.8779 (

FACILI

9#

ISP NEW DISTRICT # 1155 FOOTE DRIVE IDAHO FALLS, IDAHO 83402

ISP

 $\overline{}$

5

22

 \mathbb{A}

REVISIONS

DRIVE AHO 83402

SCF

DATE: OCTOBER 2024 DRAWN BY: NRH/BTH/JNH **CHECKED BY:** NRH

DRAWING NO.:

A 1" CLEAR INSULATED GLAZING (B) BULLET RESISTANT INSULATED GLAZING (C) 1/4" CLEAR GLAZING TEMPERED GLAZING WINDOW TYPES

STORAGE

LOBBY

EXTERIOR

162C EXT. EXTERIOR 162

EXTERIOR 162

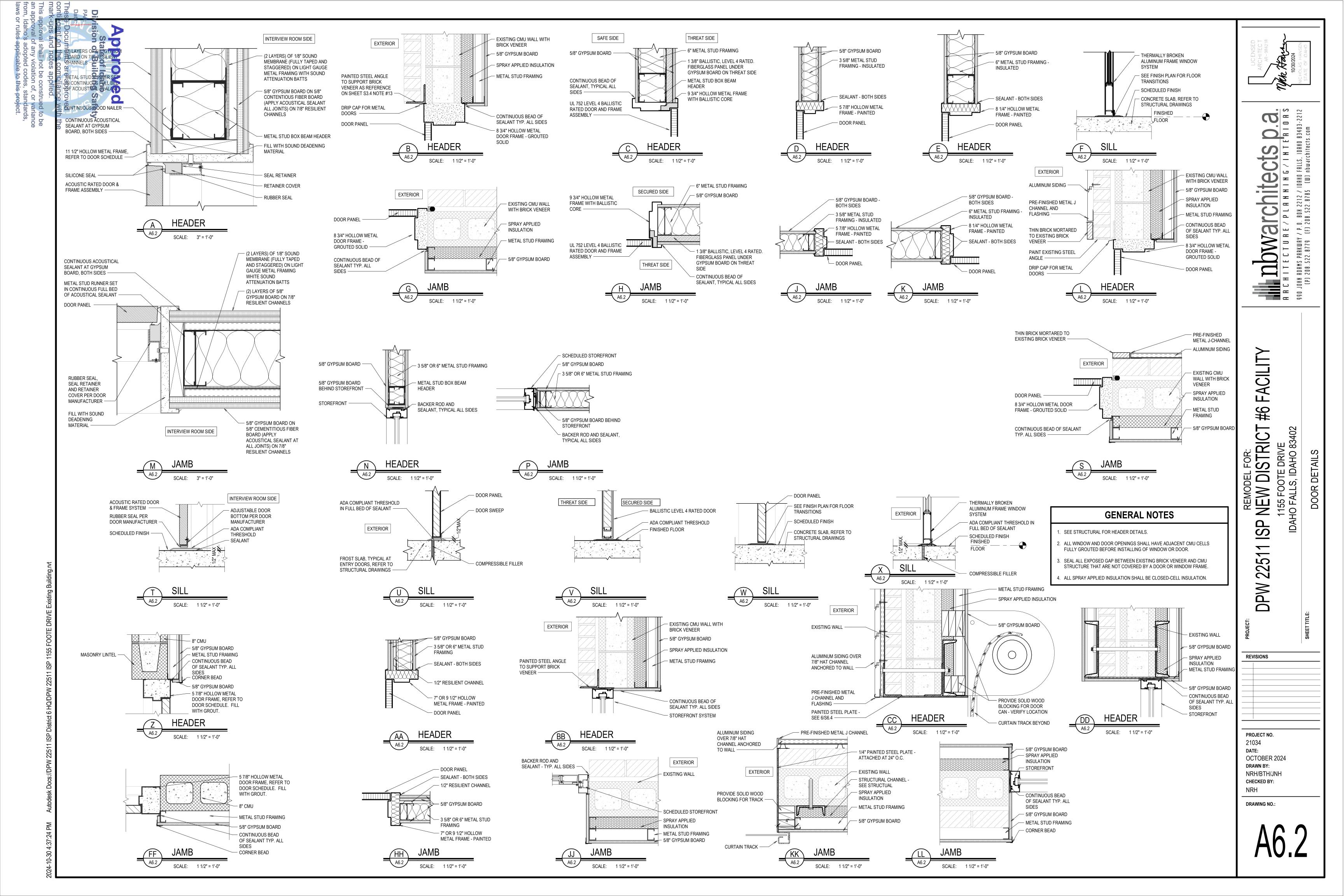
TRAINING

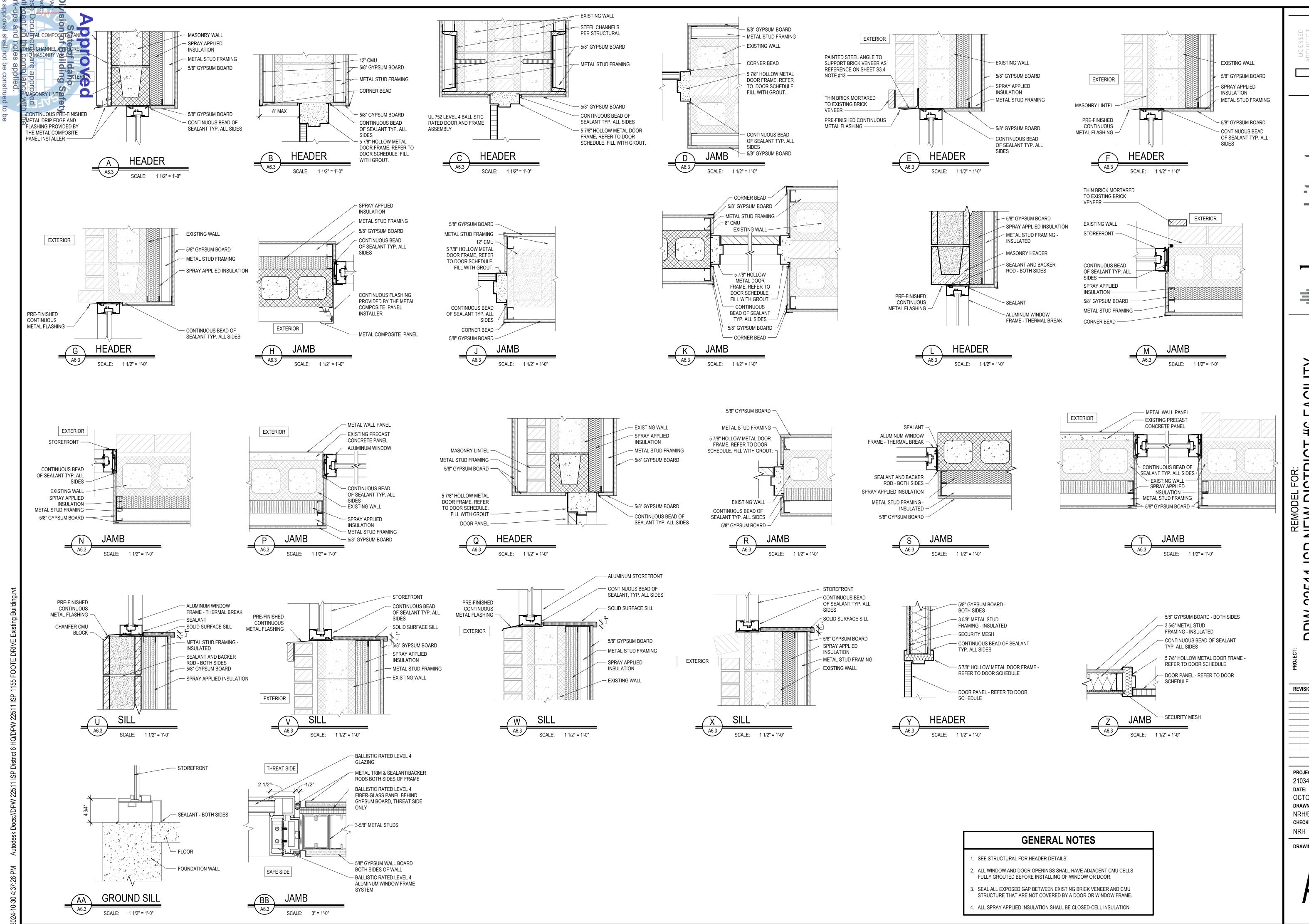
TRAINING

SHELL STORAGE

SHELL STORAGE

SHELL STORAGE





FACILITY 9# ISP NEW DISTRICT : 1155 FOOTE DRIVE IDAHO FALLS, IDAHO 83402 TRICT SP 225

DPW

REVISIONS

PROJECT NO. 21034 OCTOBER 2024 DRAWN BY: NRH/BTH/JNH CHECKED BY:

THIS FINISH SCHEDULE IS BASED ON PLAN NORTH NOT TRUE NORTH THIS FINISH SCHEDULE IS BASED ON PLAN NORTH NOT TRUE NORTH SEMISH SCHEDULE KEY **ROOM FINISH SCHEDULE ROOM FINISH SCHEDULE** <u>CARPET TILE - J&J INVISION</u> CP1 - TABBY 7802 - 3632 LAPIS 18X36 CONCRETE FLOOR
C1 - POLISHED AND SEALED CONCRETE ACCOUSTIC PANELS - MDC AP1 - ZINTRA - SMOKE TILE - AMERICAN OLEAN T1 - CONRAD BRICK - MARINE CB96 2X8 FLOOR BASE WALLS FLOOR BASE T2 - COLOR STORY - MATTE STORM GRAY 0017 12X24 CP2 - QUILL 7801 - 3632 LAPIS 18X36 AP2 - ZINTRA - MIX OF FROST, SLATE, SKY, AND ECRU |NORTH| EAST |SOUTH| WEST CP3 - KINETICS GAMECHANGER 1851 UPHEAVAL 3443 24X24 BASE - ROPPE B1 - 4" COVE BASE - DARK GRAY FT1 - COLOR STORY - MATTE SHADOW 0016 12X12 MANUFACTURED STONE VENEER B2 - 4" COVE BASE - BLACK FB - CULTURED STONE - HANDMADE BRICK - CARBON 2X2 IN SHOWER WALK-OFF MAT - MOHAWK B3 - 6" CERAMIC TILE WITH SCHULTER TRIM WM - STEP UP II - 989 OBSIDIAN 24X24 **ROOM NAME** NO. **ROOM NAME** NO. 101 INTERVIEW 133 MECHANICAL AP1 AP1 AP1 L1 - KORLOK SELECT - BALTIC LIMED OAK RKP8111 9X56 RUBBER TILE FLOOR - ROPPE R1 - MARBELIZED RUBBER - M139 DEEP NAVY 12X12 VINYL WALLCOVERING 134 ELECTRICAL V1 - NATIONAL WALLCOVERING - METEOR - MOON Y47085MR R1 B1 AP1 AP1 AP1 AP1 WM B1 P1 P3 P1 P1 WM B1 P1 P1 P3 5 P1
 FT1
 B3
 T2
 2
 T2
 3
 P1

 FT1
 B3
 T2
 2
 T2
 2
 P1

 FT1
 B3
 T2
 2
 T2
 3
 P1

 FT1
 B3
 T2
 2
 T2
 3
 P1
 135 CHANGING R2 - RECOIL - 378 COBALT LIGHT GRAY/100 BLACK 36X36 V2 - MDC - VERTEX - BLUESMOBILE BBVT20 103 INTERVIEW 136 CHANGING 104 SECURED WAITING 137 CHANGING 105 CORRIDOR 138 WEIGHT ROOM R2 B1 P1 P1 P2 106 STORAGE • FINISH SCHEDULE NOTES **KEYNOTES** 107 MONITORING 139 CHANGING FT1 B3 P1 T2 2 T2 2 P1 140 BULK EVIDENCE C1 B1 P1 P1 P1 108 TRAINING | CP2 | 5 | B1 | | V2 | | P3 | | P2 | | P3 | 141 EVIDENCE PROCESSING B1 P1 P1 P1 109 SERGEANT B1 P1 P1 1. 8" TALL WHITE VINYL WALL GUARD - MOUNTED AT 3'-0" A.F.F. (1) SOLID SURFACE THRESHOLD 142 EVIDENCE TECH B1 P1 P1 110 INVESTIGATIONS 143 NARCOTICS
144 DATA 111 SERGEANT 2. 7'-0" TILE WAINSCOT WITH P1 ABOVE (2) ROPPE #42 CUSTOM CARPET EDGING 3/16" 112 ADMIN 3. FULL HEIGHT TILE IN SHOWERS - SEE ELEVATIONS (3) SCHLUTER SCHIENE 145 STORAGE 146 BREAK ROOM 147 T.R. 114 SERGEANT (4) SCHLUTER VINPRO U 4. SEE ELEVATIONS FOR LOCATION OF FRP 115 LIEUTENANT 148 ARMORER 116 BRIEFING . MULTIPLE FINISHS - SEE FINISH PLAN FOR LOCATION 149 RECORDS AREA 117 CAPTAIN | B1 | P1 | P1 | 118 SERGEANT 150 | FILE / MAIL / COPY B1 P1 P1 119 SERGEANT 151 SUPERVISOR CP2 B1 P1 P1 P1 CP2 5 B1 P1 P1 P1 P1 5 152 FRONT OFFICE 120 PATROL B1 P1 P1 P1 4 P1 4 121 SERGEANT B1 P1 P1 153 JANITORIAL 122 SERGEANT 154 T.R. FT1 B3 T2 2 T2 2 P1
 CP2
 B1
 P1
 P1
 P1
 P1
 P1
 155 T.R. 123 SERGEANT FT1 B3 T2 2 T2 2 T2 2 P1 CP2 B1 P1 P1 124 SERGEANT 156 STORAGE | B1 | P1 | R1 B1 AP1 AP1 AP1 157 INTERVIEW B1 P1 P1 P1 P1 125 LIEUTENANT
 R1
 B1
 AP1
 AP1
 AP1

 WM
 B2
 P1
 P1
 P1

 L1
 B1
 P1
 P1
 5
 P1

 FT1
 B3
 T2
 2
 T2
 2
 P1

 CP2
 B1
 P1
 P1
 P1
 P1

 CP2
 5
 B1
 P3
 P3
 P3
 B1 P1 P1 B1 P1 P1 B1 P1 P1 126 COMM. VEHICLE SAFETY DIVISION 158 VESTIBULE 159 LOBBY 128 STORAGE 160 STORAGE B1 P1 P1 P1 P1
 B1
 P1
 1
 P1
 1
 P1
 1
 P1
 1

 B2
 P1
 1
 P1
 1
 P1
 1
 P1
 1
 162 SHELL STORAGE 131 CORRIDOR 132 CORRIDOR LIEUTENANT INTERVIEW LIEUTENANT 115 CAPTAIN (125) 117 B1 P1 P1 CP2 4 P1 CORRIDOR B1 P1 P1 WM (105) MECHANICAL ELECTRICAL 133 134 SECURED SERGEANT SERGEANT WAITING (119) COMM. VEHICLE II P1 P1 CP2 II SAFETY DIVISION 126 SERGEANT PATROL 120

B1 P1 P1 CP2 5 MONITORING STORAGE 116 SHELL STORAGE SERGEAN 124 **EVIDENCE** PROCESSING 144 d Bi Pipi Ci BREAK ROOM 142 SUPERVISOR 143

FINISH PLAN

SCALE: 3/32" = 1'-0"

=

5

Q

WALLS

AP1

NORTH | EAST | SOUTH | WEST

A B C H I T E C T U B GOOD JOHN ROAMS PARKWAY 2 FACILITY 9#

TRICT DRIVE AHO 834

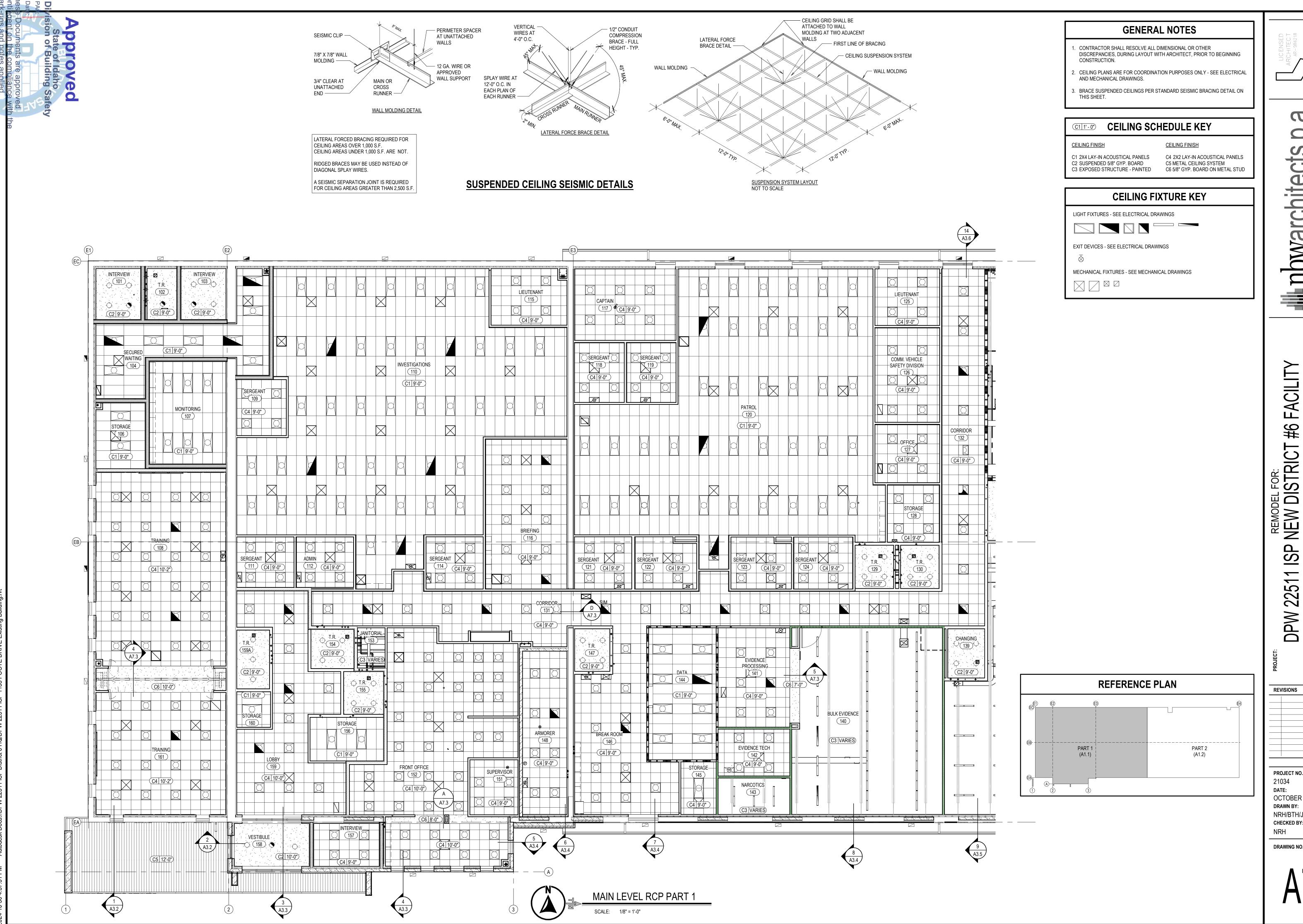
SP NEW DIST 1155 FOOTE DR IDAHO FALLS, IDAH

<u>S</u> DPW 2251

REVISIONS

PROJECT NO.

21034 DATE: OCTOBER 2024 DRAWN BY: NRH/BTH/JNH CHECKED BY:



itect

HE DDWal

CEILING

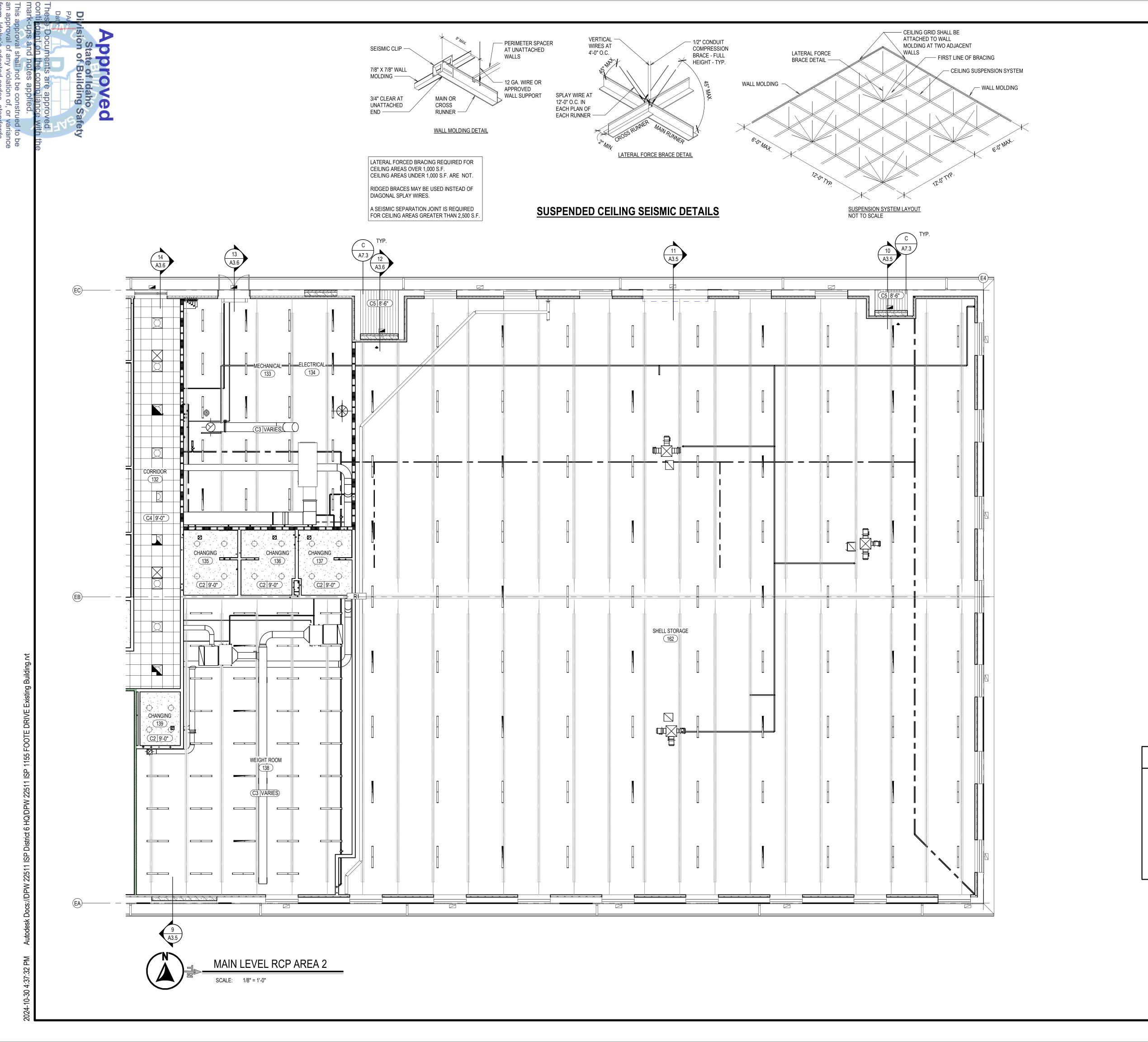
REMODEL FOR:

1 ISP NEW DISTRICT #
1155 FOOTE DRIVE
IDAHO FALLS, IDAHO 83402

FLECTED (

PROJECT NO.

DATE: OCTOBER 2024 DRAWN BY: NRH/BTH/JNH CHECKED BY:



GENERAL NOTES

CONTRACTOR SHALL RESOLVE ALL DIMENSIONAL OR OTHER DISCREPANCIES, DURING LAYOUT WITH ARCHITECT, PRIOR TO BEGINNING CONSTRUCTION.

2. CEILING PLANS ARE FOR COORDINATION PURPOSES ONLY - SEE ELECTRICAL AND MECHANICAL DRAWINGS.

BRACE SUSPENDED CEILINGS PER STANDARD SEISMIC BRACING DETAIL ON

CEILING SCHEDULE KEY

CEILING FINISH

CEILING FINISH

C1 2X4 LAY-IN ACOUSTICAL PANELS C2 SUSPENDED 5/8" GYP. BOARD C3 EXPOSED STRUCTURE - PAINTED

C4 2X2 LAY-IN ACOUSTICAL PANELS C5 METAL CEILING SYSTEM C6 5/8" GYP. BOARD ON METAL STUD

CEILING FIXTURE KEY

LIGHT FIXTURES - SEE ELECTRICAL DRAWINGS

EXIT DEVICES - SEE ELECTRICAL DRAWINGS

PART 1

MECHANICAL FIXTURES - SEE MECHANICAL DRAWINGS

> FACILITY 9# DPW 22511 ISP NEW DISTRICT # 1155 FOOTE DRIVE IDAHO 83402

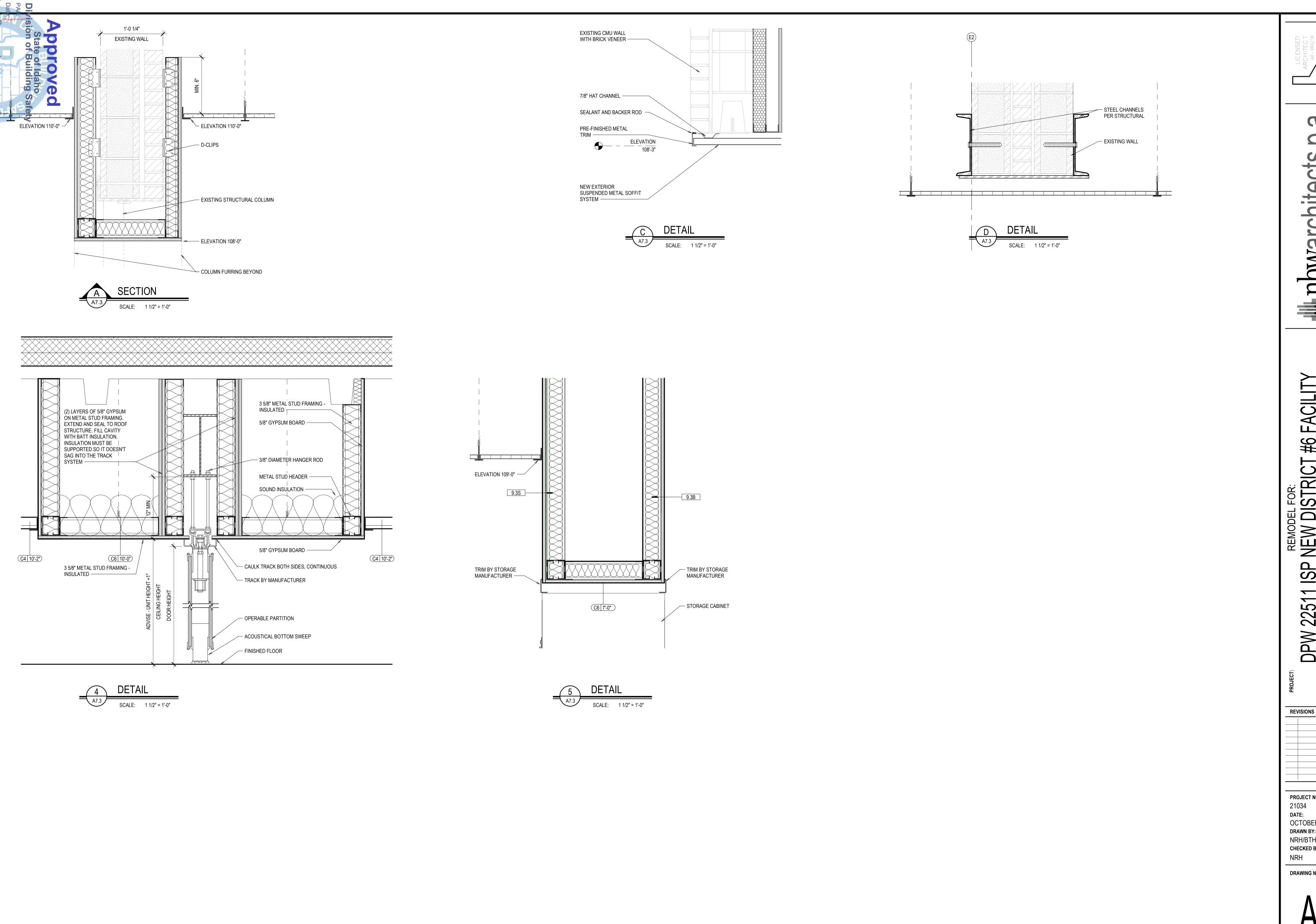
REVISIONS

PROJECT NO. 21034 DATE: OCTOBER 2024 DRAWN BY: NRH/BTH/JNH CHECKED BY:

DRAWING NO.:

REFERENCE PLAN

PART 2 (A1.2)

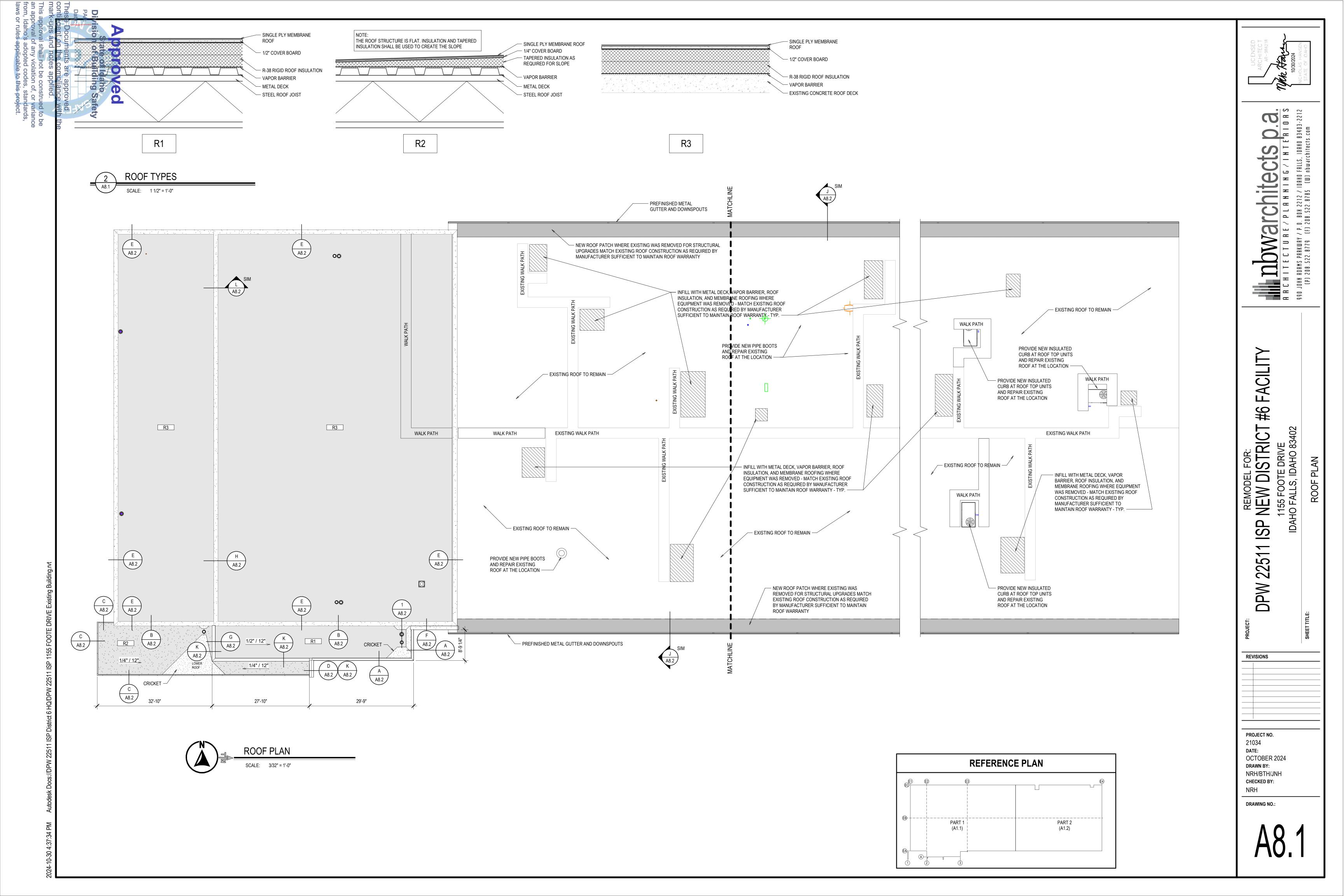


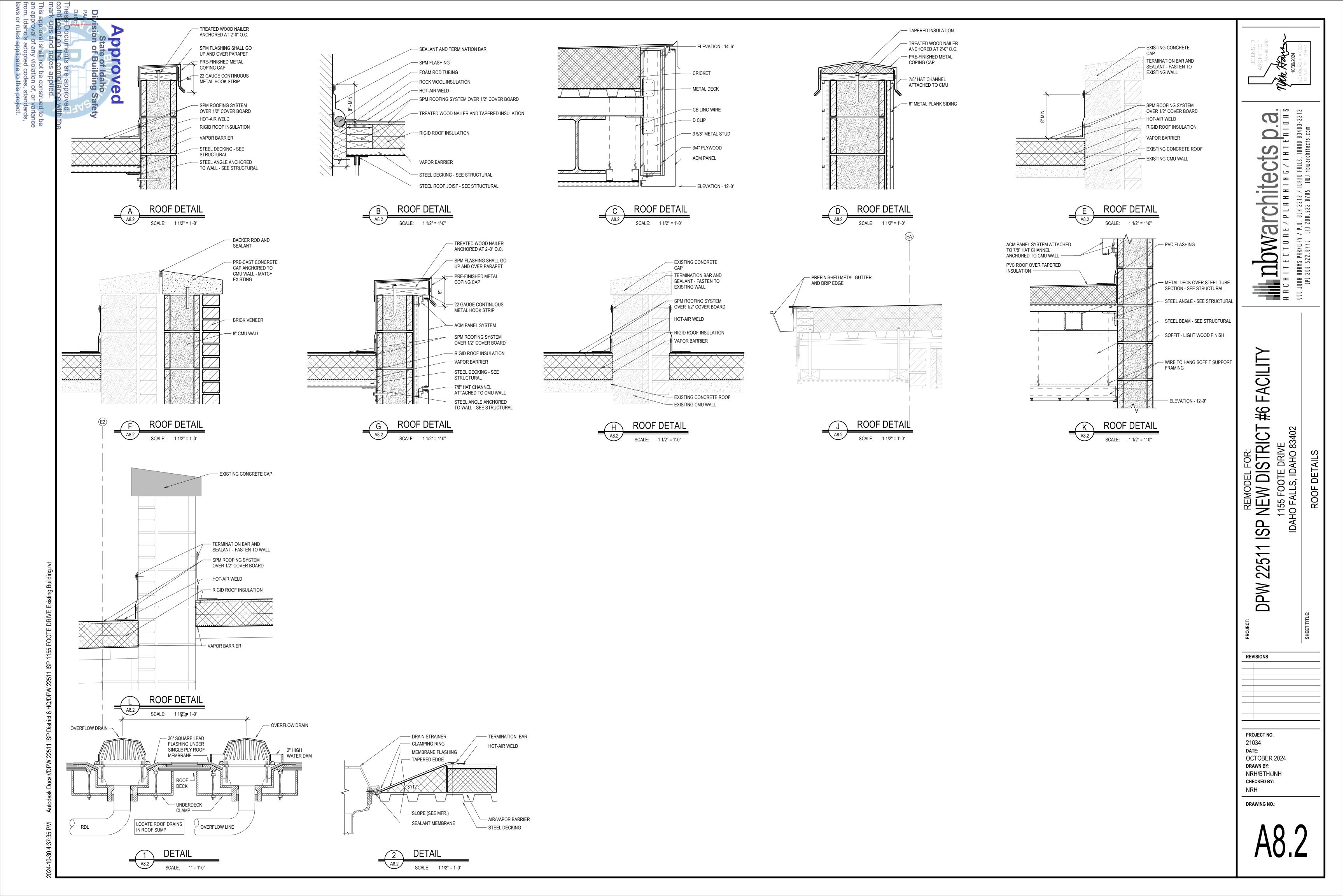
1 ISP NEW DISTRICT #6 FACILITY
1155 FOOTE DRIVE
IDAHO FALLS, IDAHO 83402

DPW 22511

PROJECT NO.

21034 DATE: OCTOBER 2024 DRAWN BY: NRH/BTH/JNH **CHECKED BY:** NRH





CODE ANALYSIS

CODE ANALYSIS

INTERNATIONAL BUILDING CODE 2018 IBC 2017 NEC NATIONAL ELECTRICAL CODE: 2018 IMC INTERNATIONAL MECHANICAL CODE: INTERNATIONAL FUEL GAS CODE: INTERNATIONAL ENERGY CONSERVATION CODE: INTERNATIONAL FIRE CODE: **IDAHO STATE PLUMBING CODE:** 2017

CONSTRUCTION TYPE:

TYPE II B, FIRE SPRINKLED

BUILDING OCCUPANCY:

S1 - STORAGE

DESIGN CATEGORY:

RISK CATEGORY IV (ESSENTIAL FACILITY)

AREA BY OCCUPANCY GROUP:

MAIN LEVEL

3,600 SF

NON SEPARATED USES PER SECTION 508.3

BUILDING AREA BASED ON NON-SEPARATED USES (SECTION 508.3) ALLOWABLE AREA AND HEIGHTS ARE BASED ON THE MOST RESTRICTIVE

USE. DIFFERENT USES ARE NOT SEPARATED BY FIRE BARRIERS

S1 = MOST RESTRICTIVE USE

ALLOWABLE SQUARE FOOTAGE S1 70,000 SF TOTAL ACTUAL SQUARE FOOTAGE 3,600 SF ALLOWABLE HEIGHT ACTUAL HEIGHT ALLOWABLE NUMBER OF STORIES

NR 3 3

OCCUPANCY SEPARATION:

NONSEPARATED PER SECTION 508.3

1 1 NR 1

ACTUAL NUMBER OF STORIES

FIRE RESISTANCE HOUR-RATING FOR BUILDING ELEMENTS (TABLE 601):

TYPE II B, ALL ELEMENTS - 0 -HR

EXTERIOR WALL FIRE RESISTANCE HOUR-RATING BASED ON DISTANCE SEPARATION (TABLE 602:)

TYPE II B X < 5' FIRE SEPARATION DISTANCE TYPE II B 5' < X < 10' FIRE SEPARATION DISTANCE 0 HR TYPE II B 10' ≤ X < 30' FIRE SEPARATION DISTANCE TYPE II B X > 30' FIRE SEPARATION DISTANCE O HR

BUILDING IS NO CLOSER THAN 35 FEET TO ANY PROPERTY LINE.

OCCUPANT LOAD: AREA FACTOR OCCUPANTS

3,600 300 STORAGE

TRAVEL DISTANCE 300' MAXIMUM - 61'-0" ACTUAL

FIRE FLOW & FIRE HYDRANT CALCULATION:

BUILDING TOTAL

REQUIRED: 1,000 GPM - 2 HOUR DURATION

2018 IFC SECTION B105.2, TABLE B105.2

REQUIRED: 1 FIRE HYDRANT FOR FIRE FLOW OF 1,750 GPM OR LESS

LOT & BLOCK DESCRIPTION

1400-1450 FOOTE DRIVE

LAND USE ZONE:

LIGHT MANUFACTURING AND HEAVY COMMERCIAL

BUILDING INFORMATION:

HEIGHT OF BUILDING: 20'-0" NUMBER OF STORIES: 1

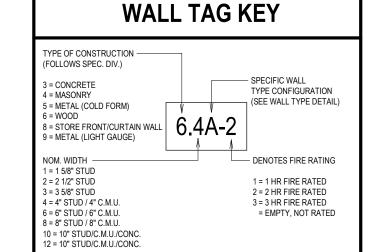
FINISH SCHEDULE KEY

PAINT - SHERWIN WILLIAMS P1 - SW7006 EXTRA WHITE M1 - METAL LINER PANEL TO FIRST GIRT WITH VINYL SCRIM ABOVE M2 - METAL LINER PANEL FULL HEIGHT

CONCRETE FLOOR C1 - POLISHED/SEALED CONCRETE

TILE - AMERICAN OLEAN T2 - COLOR STORY - MATTE STORM GRAY 0017 12X24

BASE - ROPPE B2 - 4" COVE BASE - BLACK B3 - 6" CERAMIC TILE WITH SCHULTER TRIM



GENERAL NOTES

THE CONTRACTOR OR PEMB MANUFACTURER IS RESPONSIBLE FOR THE DESIGN OF THE BUILDING STRUCTURE.

THE CONTRACTOR OR PEMB MANUFACTURER IS RESPONSIBLE FOR THE DESIGN OF ALL FOOTINGS, FOUNDATIONS, AND SLABS RELATED TO THE BUILDING

FLOOR, WALL, ROOF, AND CEILING TYPES

F1 4" CONCRETE SLAB-ON-GRADE

F2 6" CONCRETE SLAB-ON-GRADE

4.4A 4"X8"X16" CMU

4.8A 8"X8"X16" CMU

5.8A BYPASS R-30 PRE-FINISHED 26 GA. METAL WALL PANEL VINYL REINFORCED FIBERGALSS BAG INSULATION 8" 'Z' GIRT BYPASS FRAMING SYSTEM VINYL FACED FIBERGLASS BATT INSULATION AND METAL STRAPPING

9.3S 3 5/8" METAL STUD FRAMING EXPANDED METAL MESH 5/8" GYPSUM BOARD

INTERIOR LINER PANEL

9.6A 6" METAL STUD PARTITION WITH GYPSUM BOARD ON BOTH SIDES

C1 SUSPENDED ACOUSTICAL CEILING - 2X4 PANEL SIZE

C2 SUSPENDED GYPSUM CEILING

C3 EXPOSED STRUCTURE - PAINTED

STANDING SEAM METAL ROOF - DOUBLE LOCK SEAM VINYL REINFORCED FIBERGALSS BAG INSULATION 8" 'Z' GIRT BYPASS FRAMING SYSTEM VINYL FACED FIBERGLASS BATT INSULATION AND METAL STRAPPING FACILITY 9#

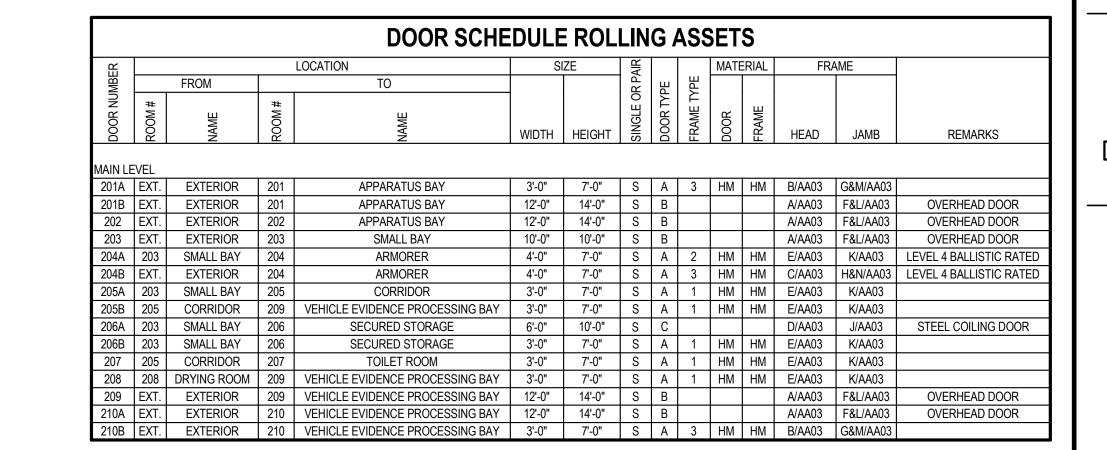
REMODEL FO ISP

REVISIONS

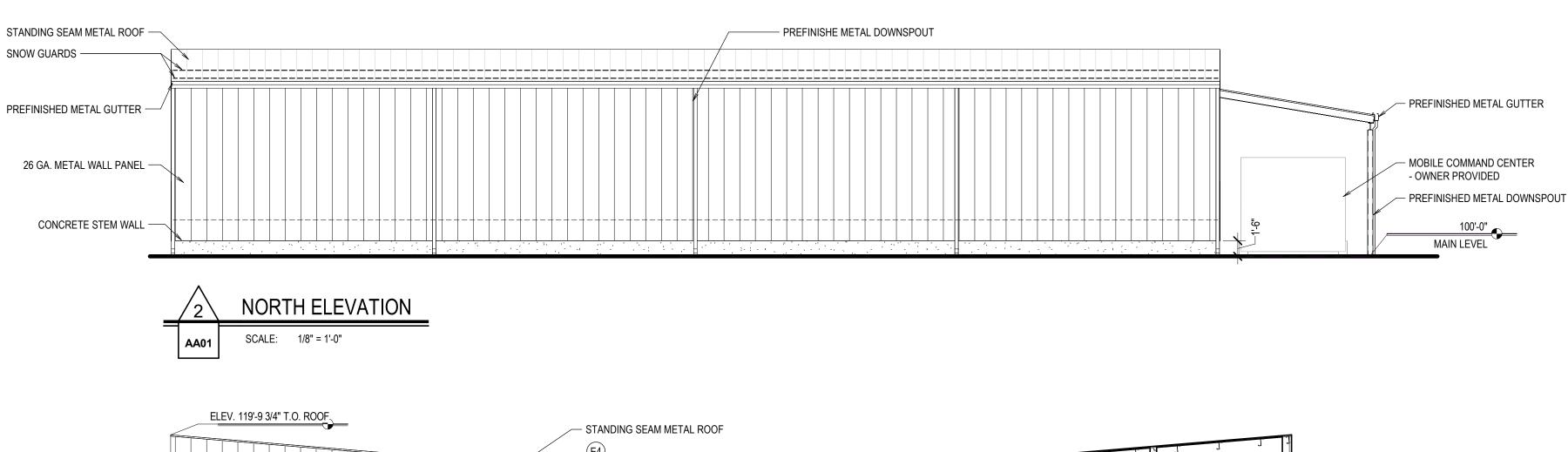
225

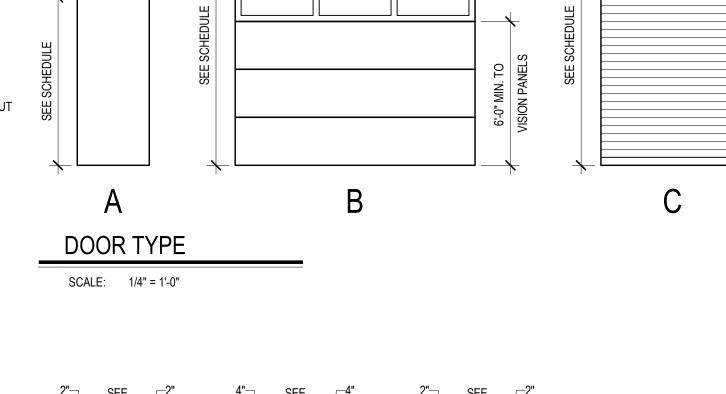
M

PROJECT NO. 21034 DATE: OCTOBER 2024 DRAWN BY: NRH/BTH/JNH CHECKED BY: DRAWING NO.:



SEE SCHEDULE





SEE SCHEDULE

SEE SCHEDULE

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

ELEV. 119'-9 3/4" T.O. ROOF

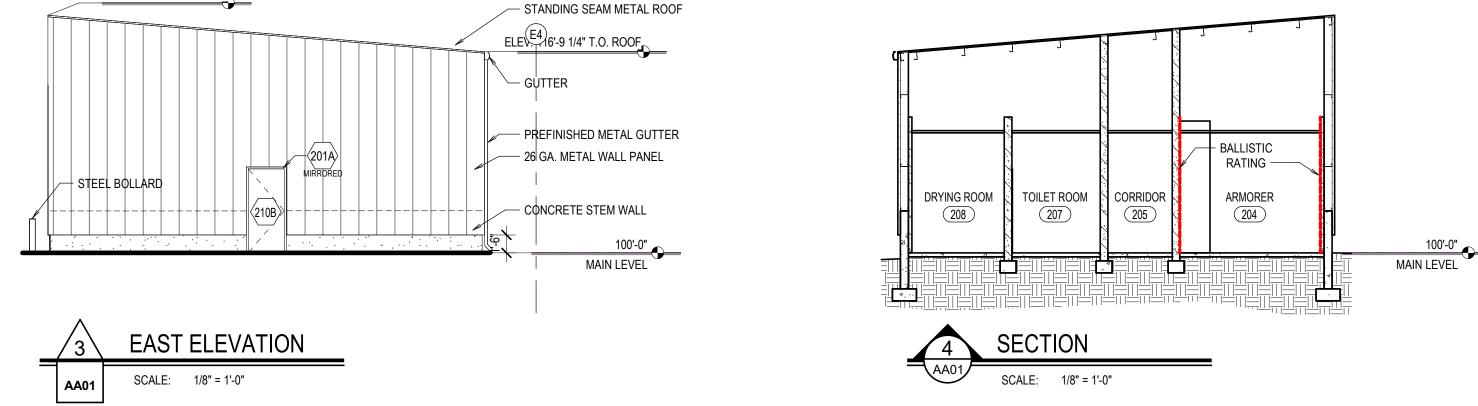
26 GA. METAL WALL PANEL

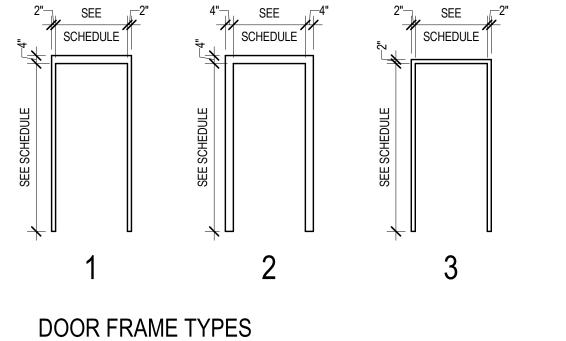
- VISION PANELS - TYP.

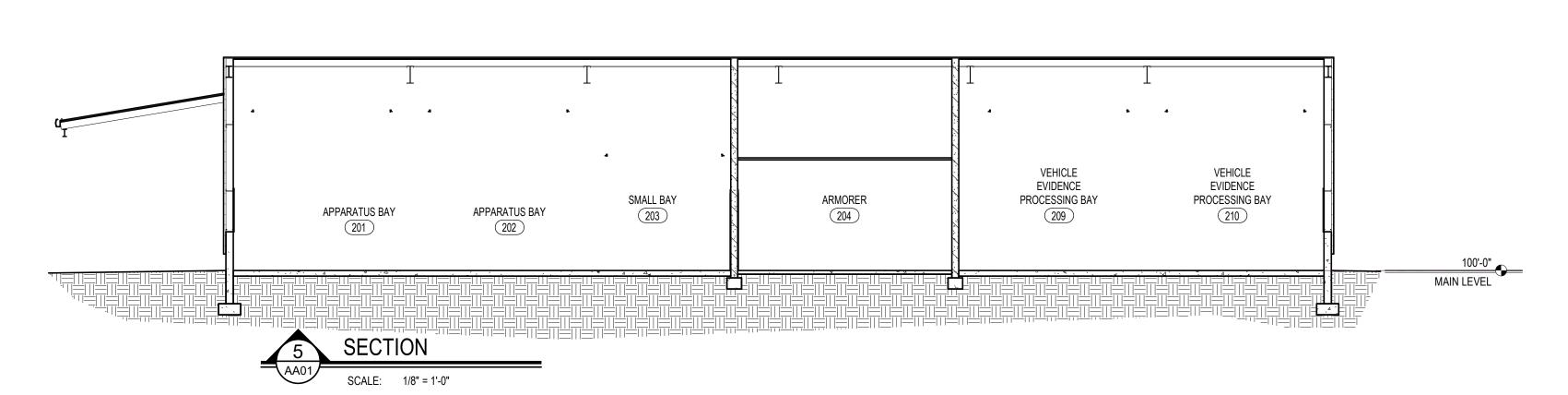
CONCRETE STEM WALL

100'-0"

MAIN LEVEL







REVISIONS

PROJECT NO.

21034
DATE:
OCTOBER 2024
DRAWN BY:
NRH/BTH/JNH
CHECKED BY:

DRAWING NO.:

AA01

REMODEL FOR:

DPW 22511 ISP NEW DISTRICT #6 FACILITY

1155 FOOTE DRIVE
IDAHO FALLS, IDAHO 83402

k Docs://DPW 22511 ISP District 6 HQ/DPW 22511 ISP 1155 FOOTE DRIVE Existing Buildin

KEYNOTE LEGEND BOND BREAK MATERIAL

J3 AIR INFILTRATION BARRIER

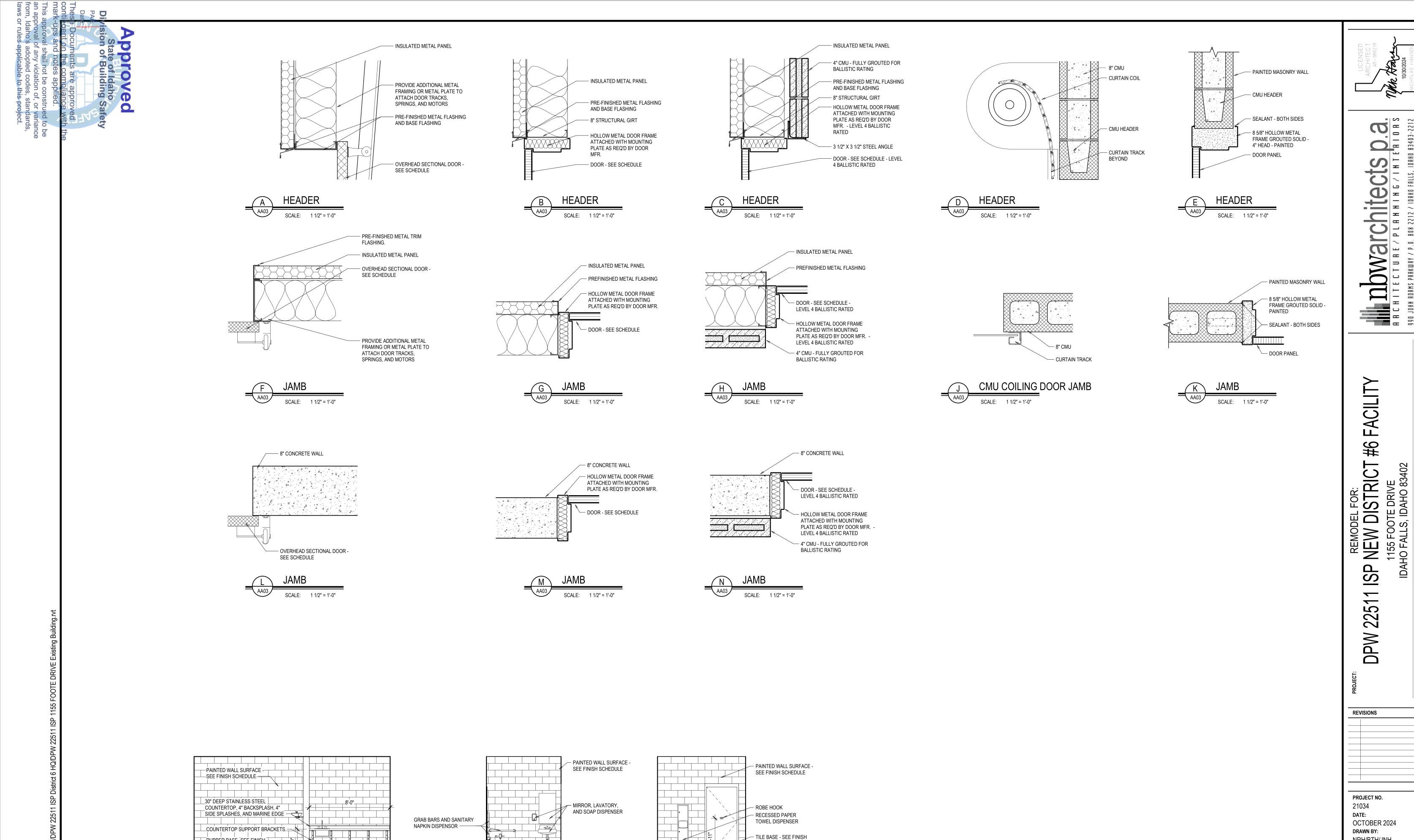
719 METAL GUTTER

3100 ENGINEERED FILL. 119'-8" T.O. RIGID FRAME 119'-8" T.O. RIGID FRAME 116'-0" T.O. RIGID FRAME 5.8A 5.8A 111'-4" T.O. CMU 107'-5" T.O. LINER 4.4A 1'-6" 48" TALL STEEL FLOOR MOUNTED DOOR TRACK GUARD - TYP. AT EVERY OVERHEAD SECTIONAL DOOR 103'-6" T.O. WALL 103'-6" T.O. WALL 101'-6" B.O. IMP 101'-6" B.O. IMP REVISIONS REINFORCED CONCRTE FOUNDATION WALL 100'-0" MAIN LEVEL MAIN LEVEL MAIN LEVEL REINFORCED CONCRTE REINFORCED CONCRTE FOUNDATION WALL REINFORCED CONCRTE
FOUNDATION WALL REINFORCED CONCRETE FOOTING REINFORCED
CONCRET FOOTING REINFORCED CONCRET FOOTING

REMODEL FOR:

ISP NEW DISTRICT #6 FACILITY
1155 FOOTE DRIVE
IDAHO FALLS, IDAHO 83402 SP DPW 22511

PROJECT NO. 21034 DATE: OCTOBER 2024 DRAWN BY: NRH/BTH/JNH CHECKED BY:



- TILE BASE - SEE FINISH

SCHEDULE

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

WATER CLOSET AND

TOILET PAPER DISPENSOR

SCHEDULE

ELEVATION - RESTROOM 207 S

RUBBER BASE- SEE FINISH

PROJECT NO. 21034 DATE: OCTOBER 2024 DRAWN BY: NRH/BTH/JNH CHECKED BY:

DRAWING NO.:

FACILITY

9#

DPW 2251

DETAILS

drawings must be used in conjunction with the architectural drawings to m define the requirements for construction.

B. Seismic

The Contractor, any items that appear to be deficiencies. missions, contradictions or ambiguities in the drawings, should be brought to the ttention or the Architect and/or G&S Structural Engineers.

CODES AND SPECIFICATIONS A. International Building Code (IBC) - 2018 Edition

SS = 37.80%g

III. DESIGN CRITERIA 3 Second Gust Wind Speed = 120 MPH (Ultimate) A. Wind 93 MPH (Nominal)

Risk Category IV Exposure = C Enclosure Classification-Enclosed

Components and Cladding Pressure (ASD loads): 20 psf typical and 25 psf at edge strips (5'-0" from each corner).

SDS = 0.328g

SI = 14.00%gSDI = 0.140g Risk Category = IV Seismic Design Category = D Site Class = C V = Cs W = 0.098WBearing Wall System, Special Reinforced Masonry Shear Walls Equivalent Lateral Force Analysis Method Percentage of roof snow used for design = 20% Design Base Shear (ult): North-South = 192.5 kips East-West = 198.8 kips

C. Live Loads per IBC Sec. 1607 Concentrated (lbs.) Ground snow: Pg Roof

39.5 a. Snow Load: Pf i. Ce = 1.0 ii. Is = 1.2 iii. Ct = 1.0 b. Live Load 20 (Non-concurrent with snow load) 3. Slab on grade

D. Dead Loads 18 (@ Steel roof system) 1. Framing system 58 (@ Monowing roof system) 53 (@ DBL TEE roof system)

E. Design Assumptions

4. Interior wall lateral pressure

1. Soil bearing pressure used is 2000 psf for columns and wall footings as per the Geotechnical Investigation_report, by Atlas Technical Consultants dated April 10, 2024. (File #E240445g). Any variation encountered, different from this report, shall be brought to the attention of G&S Structural Engineers before proceeding.

20 (@ New roof system)

F. Allowable Stresses (unless otherwise noted)

1. Concrete (Reference ACI 318-14, section 19.3-Concrete Durability Requirements) a. Existing Concrete f'c

b. Footings (and interior foundation walls) i. Per ACI Table 19.3.1.1 - F0,S0,W0,C1 ii. Minimum f'c @ 28 days iii. W/C ratio

4 - 8 inches with verified max slump of 3" iv. Slump limit before admixtures, (± 1") v. Air entrainmentv. 3% (± 1%) Total air content

c. Exterior/perimeter foundation walls i. Per ACI Table 19.3.1.1 - F2,S0,W0,C1

ii. Minimum f'c @ 28 days iii. W/C ratio 0.45 max

4 - 8 inches with verified max slump of 4" iv. Slump limit before admixtures, (± 1") 6% (± 1%) Total air content v. Air entrainment

d. Interior slabs on grade not exposed to freeze thaw i. Per ACI Table 19.3.1.1 - F0,S0,W0,C1 ii. Minimum f'c @ 28 days

iii. W/C ratio 0.55 max iv. Slump limit 4 - 8 inches with verified max slump of 3" before admixtures. (± 1")

v. Air entrainment No air additive vi. Coordinate concrete design with special slab finish requirements, see arch. drawings and/or specifications. Use the more restrictive requirements.

2. Concrete masonry 1500 psi a. Masonry Wall (f'm) 1900 psi b. Masonry Units c. Mortar (@ 28 days) 2500 psi i. Type M ii. Type S

1800 psi d. Grout (@ 28 days) 2000 psi 3. Reinforcing steel ASTM A615 Grade 60 a. Typical

ASTM A706 Grade 60 b. Weldable 4. Structural steel a. W-shapes ASTM A36 i. Existing ASTM A992 ii. New c. Channels ASTM A36 ASTM A36 d. Angles ASTM A53 Grade B e. Steel pipe

ASTM A36 f. Miscellaneous plates & bars ASTM A500 Grade B g. HSS shapes 5. Deformed Bar Anchors (DBA) ASTM A496

IV. SPECIAL INSPECTIONS A. See sheet S1.2 for statement of special inspection and quality control as well as required special inspections and frequency.

shall have prior approval from the Architect.

V. GENERAL STRUCTURAL NOTES

A. All footings shall bear on undisturbed soil or rock. The foundation shall bear on the same soil type throughout the entire structure. A minimum distance of 3'-0" shall be maintained from finished grade to the bottom of all concrete footings. Use Typical Stepped Footing Detail 1/S1.1 at change in footing elevations.

B. Caution shall be taken not to undermine existing footings. See Allowable

Trenching and Utility Placement Detail 2/S1.1. C. Contractor shall verify all dimensions in the field: any variation from the drawings shall be brought to the attention of the Architect. Any proposed field changes

D. Adequate shoring and bracing of all structural members during construction shall be provided.

F. Backfill under slabs and footings shall be with approved material per the geotechnical

VI. CONCRETE A. Unless otherwise noted, all concrete is to be made with Portland Cement -ASTM C150 with a maximum aggregate size less than or equal to one inch.

B. Concrete shall be of ready-mix type conforming to ASTM C94.

C. When the average daily temperature is expected to drop below 40° F for 3 or more successive days, the concrete shall comply with the Cold Weather Concreting Standard (ACI 306). Place no concrete against frozen earth.

D. All vertical reinforcement in piers and walls shall be doweled from the footing or structure below with rebar of the same size and spacing as required above. All footing dowels shall have at least 40 diameters embedment into concrete above and shall have a 6" hook in footing below unless specified otherwise.

E. Provide corner bars at all intersecting corners. Use same bar size and spacing as horizontal wall reinforcement. Where horizontal reinforcing bars join concrete columns the reinforcing shall run continuous through columns. Where continuous

horizontal reinforcement terminates, use a 90° return or separate corner bar. F. Splices of reinforcement at points of maximum stress shall be avoided. All longitudinal reinforcement in beams and headers shall be continuous without splices

between supports. Minimum overlap for lapped splices shall be as follows: **#5-30" #6-36"** G. Reinforce all concrete walls as shown on the Concrete Wall Schedule

H. All exterior vertical concrete surfaces below finished grade, where in contact with earth, shall be protected with an asphaltic coating.

J. No aluminum products shall be embedded in the concrete.

K. All construction joints shall be located so as not to impair the strength of the structure. Unless noted on the drawings, all reinforcement shall be continuous through the joints. Each construction joint shall be keyed.

L. Construction joints in large areas of slab on grade shall be placed in long strip construction fashion in widths as required. Control joints at 10 feet maximum shall be saw-cut longitudinal and transverse to the length. See Concrete Slab on Grade Details S1.3.

VII. MASONRY

A. All concrete masonry units shown on the drawings shall conform to TMS 602/ACI 530/ ASCE6. Net area compressive strength of concrete masonry unit to be 1900 psi. Net area compressive strength masonry f'm = 1500 psi.

B. The mortar used shall conform to TMS 602/ACI 530/ ASCE6 with minimum compressive strength at 28 days of 2500 psi for Type M and 1800 psi for Type S mortar. Reference ASTM C270 for mix proportions.

C. Grout shall comply with Article 2.2 of TMS 602/ACI 530/ ASCE6. Grout shall be proportioned by volume and shall have sufficient water to produce a consistency for pouring without separation. Also, grout shall have a minimum compressive strength at 28 days of 2000 psi. Reference ASTM C476 for mix proportions.

D. When the average daily temperature is expected to drop below 40° F, the masonry shall comply with the Cold Weather Construction requirements of the Building Code Requirements for Masonry Structures (ACI 530). Use no masonry units having surface ice or snow.

E. All masonry units shall be placed in a running bond orientation. Cells shall be aligned to preserve unobstructed vertical cavities. All cells with reinforcement, anchor bolts, embed plates and areas to receive drilled in anchors shall be arouted full.

F. All vertical reinforcement in piers and walls shall be doweled from the footing or structure below with rebar of the same size and spacing as required above. All footing dowels shall have at least 40 diameters embedment into masonry above and shall have a 6" hook in footing below unless specified otherwise. Provide two reinforced and grouted vertical cells at all corners, ends and each side of control joints. (See Typical Masonry Details 3/S1.1 & 4/S1.1).

G. High lift grouting is acceptable at the Contractor's option. The Contractor must coordinate with the special inspection agency and follow the extra requirements necessary for the inspection of the high lift grouting prior to constructing any areas that will be grouted as a high lift. All high lift grouting requirements must be followed. Do not allow grout to free fall more than 48".

H. All horizontal reinforcement shall be in a bond beam. Where horizontal reinforcing bars join concrete or masonry columns the reinforcing shall run continuous through columns. Where continuous horizontal reinforcement terminates, use a 90° return or separate corner bar.

I. Splices of reinforcement at points of maximum stress shall be avoided. All longitudinal reinforcement in beams and headers shall be continuous without splices between supports. Minimum overlap for lapped splices for reinforcing bars shall be as follows unless otherwise noted.

#5-40"

K. Reinforce all masonry walls as shown on the Masonry Wall Schedule and wall elevations.

L. All masonry below finished grade shall be grouted solid. Where exposed to earth, the exterior face of the masonry shall be protected with an asphaltic surface coating.

A. Welding or tack welding of reinforcing bars to other bars, plates, angles, etc. is prohibited unless ASTM A706 (weldable) rebar is utilized.

B. All detailing, fabrication and placing of reinforcing bars shall conform to the ACI Manual of Standard Practice for Detailing Reinforcing Concrete Structures (ACI 315).

C. Reinforcement shall be accurately placed as indicated on the drawings and adequately supported to prevent displacement before concrete or masonry

D. The following minimum concrete cover for reinforcement shall be provided, unless otherwise noted.

Cast against and permanently exposed to earth......3" Exposed to earth or weather - #5 and smaller... 1-1/2" - #6 thru #18 bars..... 2" Not exposed to earth or weather - slabs, walls... 3/4"

IX. ARCHITECTURAL VENEER ATTACHMENTS A. All architectural veneer and wall coverings are to be attached to the supporting wall system. See the architectural specifications for the veneer attachment requirements.

X. STRUCTURAL STEEL

A. All structural steel and structural steel work shall comply with the "Specification for Structural Steel Buildings" (AISC 360) and the "Seismic Provisions for Structural Steel Buildings" (AISC 341).

B. All steel shall be shop fabricated to the greatest extent possible per AISC. All steel members shall be given one shop coat of approved paint. Surfaces to be embedded in concrete shall not be painted.

C. All welding must conform to the AISC and the AWS Structural Welding Code-Steel. All welders shall have current certification by tests per American Welding Society (AWS) to perform the type of work required. All welds shall be made using a minimum 70 ksi electrode meeting Charpy V-Notch toughness of 20 ft-lbs @ 20° F as determined by

D. All structural steel shall be temporarily braced until all of the structural frame is complete.

E. All steel column base plates bearing on concrete shall have non-shrink structural grout under the entire base plate. The grout shall be placed as soon as possible before the structural column is loaded.

F. All high strength bolts are to be tightened to the snug tight condition unless otherwise

XI. STEEL ROOF DECKING

A. Steel deck shall be formed from sheets conforming to the requirements of the Steel Deck Institute.

B. Steel deck shall comply with the latest requirements of the Steel Deck Institute. Submit ICC report with vertical load and lateral shear capacities with shop drawings if supplied deck will be different than that specified.

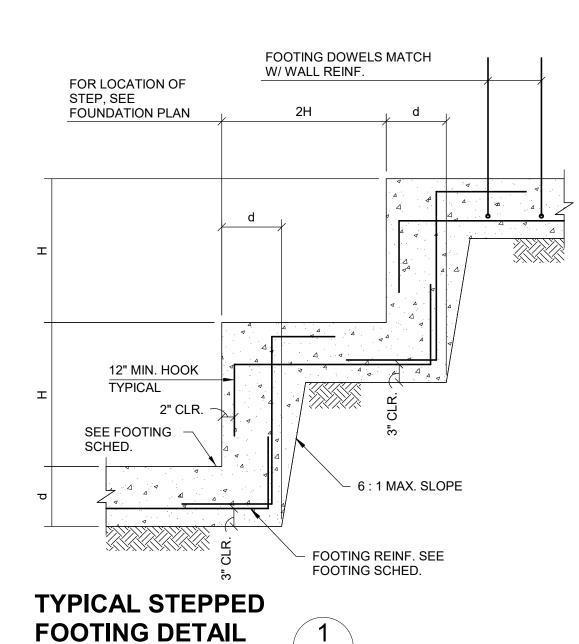
C. Provide a 2" minimum bearing and a 4" lap at the splice points of all pieces of decking.

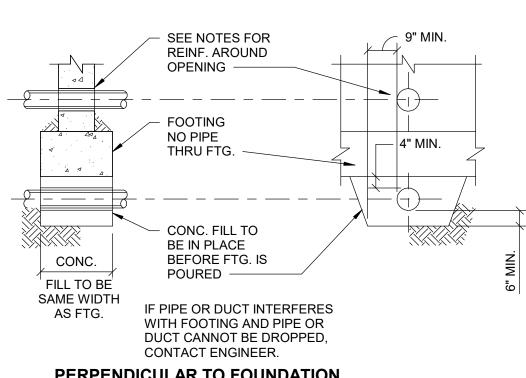
D. Steel deck shall be 3-span continuous minimum.

E. See the Steel Deck Schedule for deck size, type and fastening requirements. Substitutions in deck and/or attachments are allowed provided they meet or exceed those specified.

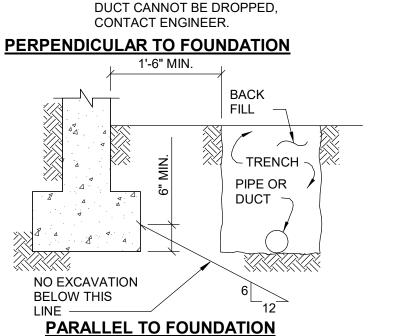
F. All puddle welds shall be made with a minimum 60 ksi electrode

XII. EXISTING PRECAST PRESTRESSED CONCRETE A. No modifications, alterations or drilling of holes are allowed unless detailed within the structural and/or architectural plans.

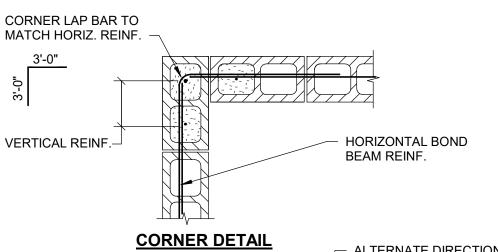


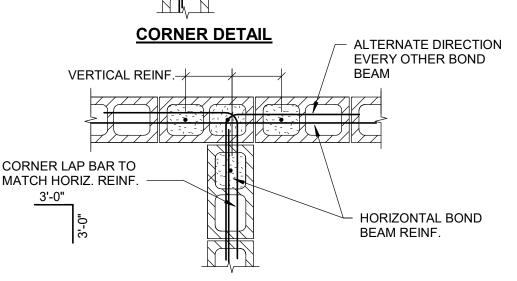


S1.1

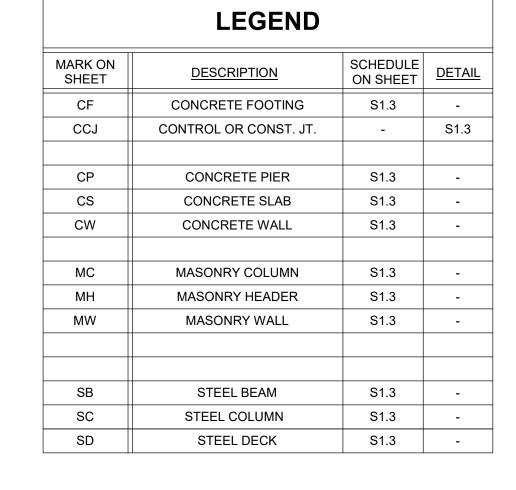


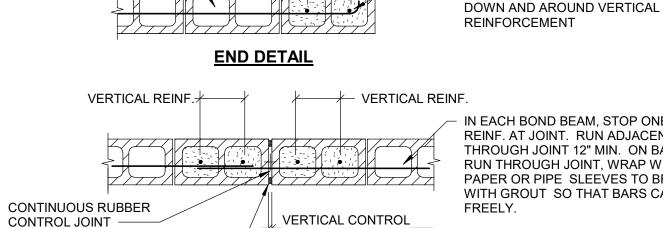






→ VERTICAL REINF.





JOINT FULL HEIGHT

INTERSECTION DETAIL

HORIZONTAL BOND

BEAM REINF.

SEALANT OVER BACKER ROD

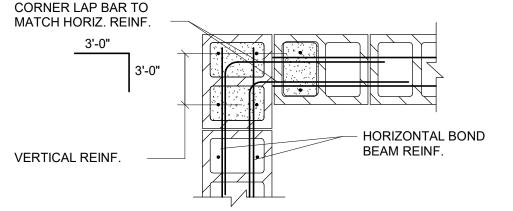
IN EACH BOND BEAM, STOP ONE SET OF REINF. AT JOINT. RUN ADJACENT REINF THROUGH JOINT 12" MIN. ON BARS THAT RUN THROUGH JOINT, WRAP WITH BUILDING PAPER OR PIPE SLEEVES TO BREAK BOND WITH GROUT SO THAT BARS CAN MOVE FREELY.

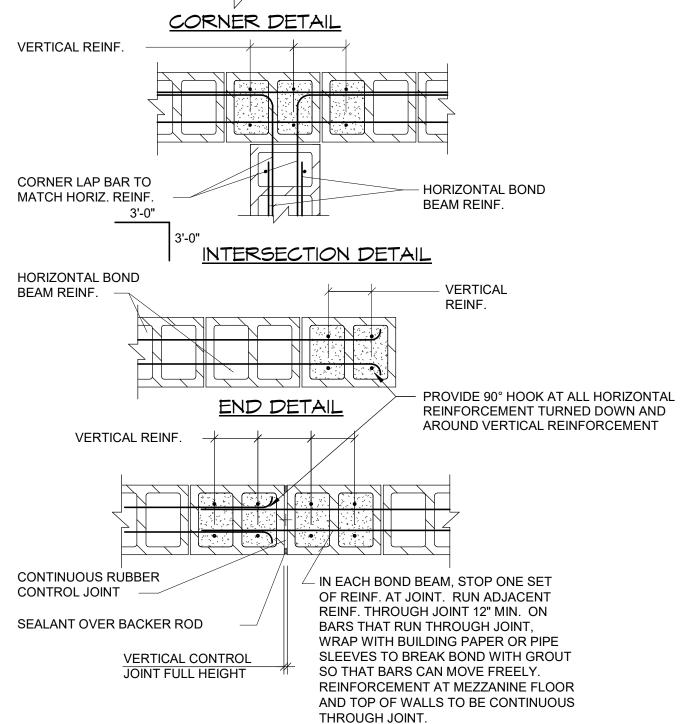
PROVIDE 90 DEGREE HOOK AT ALL

HORIZONTAL REINFORCEMENT TURNED



CONTROL JOINT





CONTROL JOINT TYPICAL MASONRY **DETAIL**

3/4" = 1'-0"





10-7-2024 S

ACILIT

LL.

9#

NEW DIS 1155 FOOTE D HO FALLS, IDA

5

22

 \mathbb{R}

REVISIONS

PROJECT NO.

OCTOBER 2024

24024

DRAWN BY:

CHECKED BY:

DRAWING NO.:

DATE:

2	
STATE	IENT OF SPECIAL INSPECTION AND QUALITY CONTROL
wher or the ow hand in the 20	wner's agent shall employ independent special inspector(s) to perform the special inspection described 018 IBC chapter 17 "SPECIAL INSPECTIONS AND TESTS".
0	
des desires	S OF THE SPECIAL INSPECTOR
aho	Each Special inspector shall submit qualification showing competency to the Building Official for approval prior to specified duties.
Q	The special inspector shall observe the work assigned to be certain it conforms to the approved contract drawings.
	The special inspector shall furnish inspection reports to the Building Official and to the architect and engineer of record. All discrepancies shall be brought to the immediate attention of the contractor for correction.
PONSIBILITIE	S OF THE CONTRACTOR
	The contractor shall submit a written statement of responsibility to the owner and the building official pric to the commencement of the work in accordance with 2018 IBC section 1704.4.
	The contractor shall notify the designated special inspector that work is ready for inspection.
	The contractor shall notify the engineer of record at the milestone intecals decribed in the "Structural Observation Program".
	The contractor shall keep all construction or work requiring special inspection or testing accessible and exposed for the inspection and testing purposes until completion of the required inspections or tests.
	Where fabrication of structural members is being conducted on the premises of a fabricator's shop, special inspections of the fabricated items shall be performed during the fabrication, except where the fabricator has been approved to perform work withour special inspections in accordance with IBC section 1704.2.5.1.

STRUCTURAL OBSERVATION PROGRAM

The structural observations, if required per IBC section 1704.6, will be performed by the engineer of record or an approved subordinate at the milestone stages of consturction listed below. At the conclusion of the project the designated structural observer shall submit to the building official a written statement that the site visits have been made and identify any reported deficiencies that, to the best of the structural observer's knowledge, have not been resolved.

	rations Program required by IBC code	YES	NO
section 1704.6:		Х	
STRUCTURAL C	DBSERVATION CONSTRUCTION MILESTON	NES	
Concrete			
	After and/or during the construction of the	foundation system	
Steel			
	After substantial portion of the roof framing	յ is erected	
Masonry			
	At various times during the construction of	the masonry walls	

COLD-FORMED STEEL DECK CONSTRUCTION INSPECTIONS

Inspection of cold-formed steel deck per 2018 IBC section 1705.2.2

INSPECTION TASK	CONTINUOUS INSPECTION	PERIODIC INSPECTION	COMMENTS
Material verification of steel deck		X	Verify steel deck type and gage per the approved contract drawings
Placement and installation of steel deck		Х	Verify steel deck type and gage per the approved contract drawings and shop drawings
Steel deck fastening (prior to concrete topping)		Х	Verify size and spacing of welds/fasteners to the supporting structure and the type and spacing of the side-seam attachments

SOILS CONSTRUCTION INSPECTIONS

Inspection of soils per 2018 IBC section 1705.6

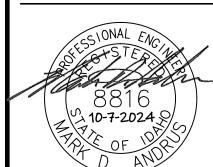
INSPECTION TASK	CONTINUOUS INSPECTION	PERIODIC INSPECTION	COMMENTS
Verify conditions match the approved geotechnical report (if one is available)		Х	Follow all recommendations contained in the geotechnical report
Verify material below footings are adequate to achieve the design bearing capacity		х	
Verify excavations are extended to proper depth and have reached proper material		Х	
Perform classification and testing of compacted fill materials		Х	
Verify use of proper material, densities and lift thickness during placement and compaction of compacted fill		Х	
Prior to placement of compacted fill, inspect subgrade and verify that the site has been prepared properly		Х	

Per 2018 IBC section 1705.2, 1705.12.1, 1705.	13.1 and AISC 360-16	6 Chapter N.	
<u> </u>		'	
INSPECTION TASK	CONTINUOUS INSPECTION	PERIODIC INSPECTION	COMMENTS
INSPECTION TASKS PRIOR TO WELDING			
Welder Qualifications		Χ	
Manufacture certifications for welding consumables available		X	
Material identification (type/grade)		Χ	
Fit up Grove and CJP grove welds		Х	Includes joint geometry, preparation, dimensions, cleanliness, tracking and backing type
Configuration and finish of access holes		Χ	
Fit-up of fillet welds		Х	Includes alignment, gaps at root, dimensions, cleanliness and tracking
Checking welding equipment		Х	
INSPECTION TASKS DURING WELDING			
Using qualified welders		Х	
Control and handling of welding consumables		Х	Packaging and exposure control
No welding over cracked tack welds		Х	
Environmental conditions		X	Wind speed within limits, precipitation and temperature
WPS followed		X	Settings on welding equipment, travel speed, selected welding materials, shielding gas type/flow rate, preheat applied, interpass temperature maintained (min./max>), preper position (F, V, H, OH)
Welding techniques		Х	Interpass and final cleaning, each pass within profile limitations and meets quality requirements
Placement and installation of steel header stud anchors	х		
INSPECTION TASKS AFTER WELDING			1
Welds cleaned		X	
Size, length and location criteria	Х		
Welds meet visual acceptance criteria	X		Includes crack prohibition, weld/base-metal fusion, crater cross section, weld profiles, weld size, undercut, porosity
Arc strikes, k-area, weld access holes, backing plates and weld tabs removed, repair activities	х		When welding of doubler plates, continuity plates or stiffeners has been performed in the k-area, visually inspect the web k-area for cracks within 3" of weld.

CONCRETE C	ONSTRUCT	TON INSPE	CTIONS
Per 2018 IBC section 1705.3 and Table 1705.3			
INSPECTION TASK	CONTINUOUS INSPECTION	PERIODIC INSPECTION	
Inspect reinforcement		Х	Includes prestressing tendons and verification of placement
Reinforcing bar welding		х	Verify weldability of reinforcing bar (ASTM A706 only), inspect welds
Inspect anchors cast in concrete		Х	
Inspect post installed concrete anchors	Х		Adhesive anchors: inspect either continuous or periodic per the requirements of the ICC-ES report
	X	Х	Mechanical anchors: inspect periodic per the ICC-ES report
Verify use of approved design mix		Х	
Prior to concrete placement, fabricate specimens for strength test, perform slump, air content and temperature tests	Х		
Inspect concrete and shotcrete placement for proper application techniques	Х		
Verify maintanance of specified curing temperature and techniques		Х	
Inspect prestressed concrete for application of prestressing forces and grouting of bonded prestressing tendons	х		
Ispect erection of precast concrete members		Х	
Verify in-situ concrete strength prior to stressing of tendons in post-tensioned concrete and prior to removal of shores and forms from beams and structural slabs		Х	
Inspect formwork for shape, location and dimensions of the concrete member being formed		Х	

			- CONSTRU	STEEL BOLTED
Per 2018		6 Chapter N.	13.1 and AISC 360-1	Per 2018 IBC section 1705.2, 1705.12.1, 1705.
	COMMENTS	PERIODIC INSPECTION	CONTINUOUS INSPECTION	INSPECTION TASK
VERIFIC				INSPECTION TASKS PRIOR TO BOLTING
Verificat			X	Manufacturer's certifications available for
Verificati				fastener materials
Verificat	Marked in accordance with ASTM requirements	X		Fasteners
	Including grade, type, bolt length if threads are to be excluded from shear plane	Х		Correct fasteners selected for joint detail
5000 sq.	onear plane	X		Correct bolting procedure selected for joint detail
delivered	Including the appropriate faying surface condition and hole preparation	х		Connecting elements
	Not required for snug tight joints per AISC 360-16 section N6 (a)	х		Pre-installation verification testing by installation personnel observed and documented for fastener assemblies and
Verify the				methods used
ts, a. Prop	Proper storage for bolts, nuts, washers and other fastenercomponents	X		Fastener storage
c. Sam				INSPECTION TASKS DURING BOLTING
in all	Verify fasteners are placed in all			
Prior to o	holes and washers and nuts are positioned as required	X		Fastener assemblies
a. Grou	Verify joint is brought to a snug-			
b. Place	tight condition prior to pretensioning	X		Joint
c. Prop			X	Fastener component not turned by the wrench prevented from rotating
ioned in Verify co	Verify fasteners are pretensioned i accordance with the RCSC Specification, progressing	X		Pretensioned fasteners
	systematically from the most rigid point towards the free edges			
ontact D. Place	Verify all plies in the connection have been pulled into firm contact by the bolts and the bolts have	V		
	been tightened sufficiently to prevent removal of the nuts withou a wrench	X		Snug-tight joints
d. Type				
	I		Г	INSPECTION TASKS AFTER BOLTING
e. Weld			Х	Document acceptance or rejection of bolted connections
masc				

	STRUCTURAL MASO	ONRY CONS	TRUCTION	INSPECTIONS
	Per 2018 IBC section 1705.4 and TMS 602-16.			
	INSPECTION TASK	CONTINUOUS INSPECTION	PERIODIC INSPECTION	COMMENTS
	VERIFICATION REQUIREMENTS			
	Verification of compliance of submittals		X	Prior to construction
	Verification of f'm and f'AAC		Х	Prior to construction
It length if	Verification of slump flow and Visual Stability Index (VSI) when self-consolidating grout is delivered to the project site		х	During construction
ed from	Verification of f'm and f'AAC for every 5000 sq. ft.		Х	During construction
faying le	Verification of proportions of materials as delivered to the project sire for premixed mortar, prestressing grout and grout other than self-consolidating grout		Х	During construction
nt joints N6 (a)	INSPECTION TASKS REQUIRED			
	Verify the following are in complience:			1
nuts,	a. Proportions of site prepared mortar		X	
	b. Grade, type & size of reinforcement, connectors, anchor bolts		Х	
	c. Sample panel construction		Х	
ed in all nuts are	Prior to grouting verify the following are in comp	liance:		
a snug-	a. Grout space	Х		
a snug-	b. Placement of reinforcement, connectors and anchor bolts	Х		
	c. Proportions of site-prepared grout		Х	
ensioned in SC g	Verify compliance of the following during constru	uction:		
nost rigid ges	Material and procedures with the approved submittals		X	
nection n contact s have	b. Placement of masonry units and mortar joint construction		х	
y to uts without	c. Size and location of structural members		Х	
	d. Type, size and location of anchors	Х		Including other details of anchorage to masonry to structural members, frames or other construction
	e. Welding of reinforcement	Х		
	f. Preparation, construction and protection of masonry during cold or hot weather			Cold weather = below 40°F Hot weather = above 90°F
	Preparation of grout & mortar specimens and/or prisms	X		



FACILITY

REMODEL FOR

1 ISP NEW DISTRICT #

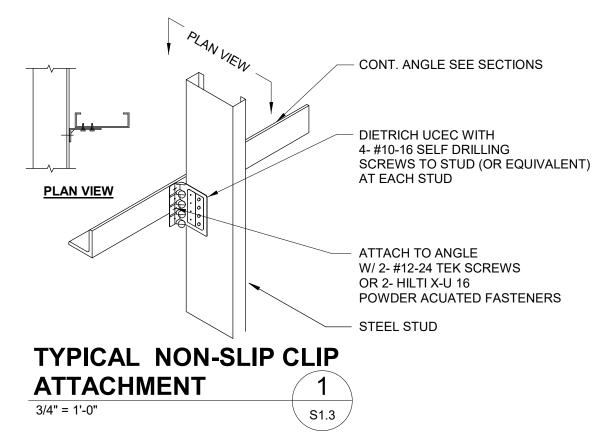
1155 FOOTE DRIVE
IDAHO FALLS, IDAHO 83402

DPW 22511

REVISIONS

PROJECT NO. 24024 DATE: OCTOBER 2024 DRAWN BY: CHECKED BY:



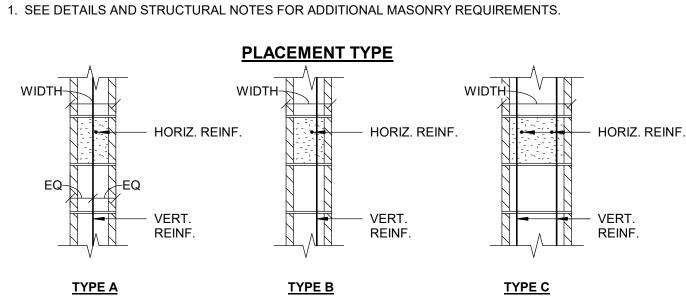


			CC	DLUMI	N SCHEDULE		
MARK	SIZE	SIZE REINFORCEMENT		CEMENT	REMARKS		
IVIARK	(WxL)	TYPE	VERTICAL	TIES	REWARRS		
MC1	12"x24"	A&B	6-#5	#3 @ 8"			
		+	W		₩ ∤		
				_			
			7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
			TYPE A		TYPE B		
		(WI	TYPE A THIN A WAL	L)	TYPE B (AT END OF WALL)		

	,	STEEL DE	ECK SCH	EDULE			
MARK	DECK SIZE		FASTENING REMARKS				
SD1	1 1/2" HSB-36 VERCO DECK 20 GAUGE GRADE 50 STEEL	PERPENDICULAR TO SUPPORT: 5/8"Ø PUDDLE WELD @ 36/4 PATTERN PARALLEL TO SUPPORT: 5/8"Ø PUDDLE WELD @ 12" O.C. SIDE LAP CONNECTION: BUTTON PUNCH @ 12" O.C.					
	VERCO STEEL D	ECK DESIGN	N PROPERTI	ES PER FO	OT OF WIDTH		
	DECK TYPE	+ld in ⁴	-ld in ⁴	+S in ³	-S in ³		
	1 1/2" HSB-36 VERCO DECK 20 GAUGE GRADE 50 STEEL	0.219	0.231	0.230	0.237		

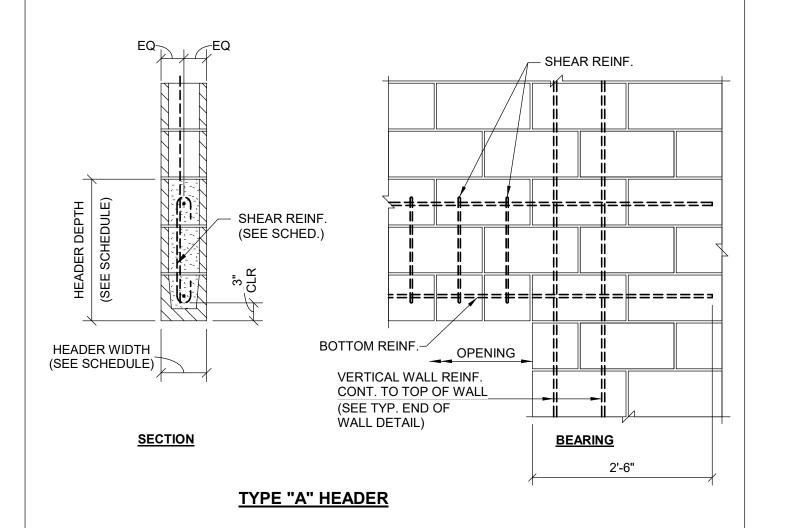
		C	ONCR	RETE FOOTING SCHE ON PLAN DENOTES TOP OF FOOTING						
MAADIA	DEDTU	WIDTH	LENGT	REINFORCEMENT						
MARK	DEPIN	חוטוא	LENGTH	LONGITUDINAL	TRANSVERSE					
CF1	12"	2'-0"	CONT.	3- #4	-					
CF2	12"	2'-6"	CONT.	4- #4	#4 @ 8" O.C.					
CF3	18"	2'-8"	CONT.	SEE SEC	CTIONS					
CF4	12"	3'-6"	3'-6"	6- #4	6- #4					
CF5	12"	5'-0"	5'-0"	8- #4	8- #4					
CF6	12"	3'-0"	3'-0"	5- #4	5- #4					
CF7	12"	1'-6"	CONT.	2- #4	-					
CF1E	17"	6'-6"	6'-6"	EXISTIN	G FOOTING					
CF2E	12"	6'-0"	6'-0"	EXISTIN	G FOOTING					
CF3E	12"	5'-6"	5'-6"	EXISTIN	G FOOTING					
CF4E	12"	3'-0"	CONT.	EXISTING FOOTING						
CF5E	12"	3'-0"	CONT.	EXISTING FOOTING						
CF6E	UNKNOV	VN FOO	TING SIZE	EXISTIN	G FOOTING					
CF7E	12"	2'-0"	CONT.	EXISTIN	G FOOTING					

	MASONRY WALL SCHEDULE								
IADIC	WIDTH	TYPE -	REINFOR	CEMENT	REMARKS				
IARK			HORIZONTAL	VERTICAL					
/W1	8"	Α	#5 @ 48" O.C.	#5 @ 32" O.C.					
/W2	8"	Α	#4 @ 8" O.C.	#5 @ 8" O.C.					
MW3	12"	С	#5 @ 48" O.C. EACH FACE	#5 @ 24" O.C. EACH FACE					
OTES:	1		1	1	-				



MASONRY HEADER SCHEDULE							
MARK	RK HEADER DEPTH	HEADER WIDTH	HEADER TYPE	HEADER REINFORCEMENT			REMARKS
IVIAIN				TOP	воттом	SHEAR	REWARNS
MH1	16"	8"	А	NOT REQ'D	1- #5	NOT REQ'D.	
MH2	24"	8"	А	1-#5	1- #5	NOT REQ'D.	
МН3	32"	8"	А	1- #6	1- #6	NOT REQ'D.	
MH4	8"	8"	А	NOT REQ'D	1- #5	NOT REQ'D.	

- 1. NO SPLICES OF HORIZONTAL REINFORCEMENT PERMITTED WITHIN BEAM SPAN. HEADER REINFORCEMENT SHALL EXTEND 2'-6" MINIMUM PAST OPENING.
- SHEAR REINFORCEMENT SHALL BE A SINGLE BAR WITH A 180 DEGREE HOOK AT EACH END. SHEAR REINFORCEMENT SHALL BE HOOKED AROUND THE LONGITUDINAL REINFORCEMENT.
- GROUT EACH MASONRY HEADER MONOLITHICALLY.
- 6. HORIZONTAL WALL REINFORCING SHALL RUN CONTINUOUS THROUGH MASONRY HEADERS. WHERE BOTH HORIZONTAL WALL REINFORCING AND HEADER REINFORCING WOULD OCCUR IN THE SAME COURSE, THE LARGER BARS ARE TO REPLACE THE SMALLER BARS.

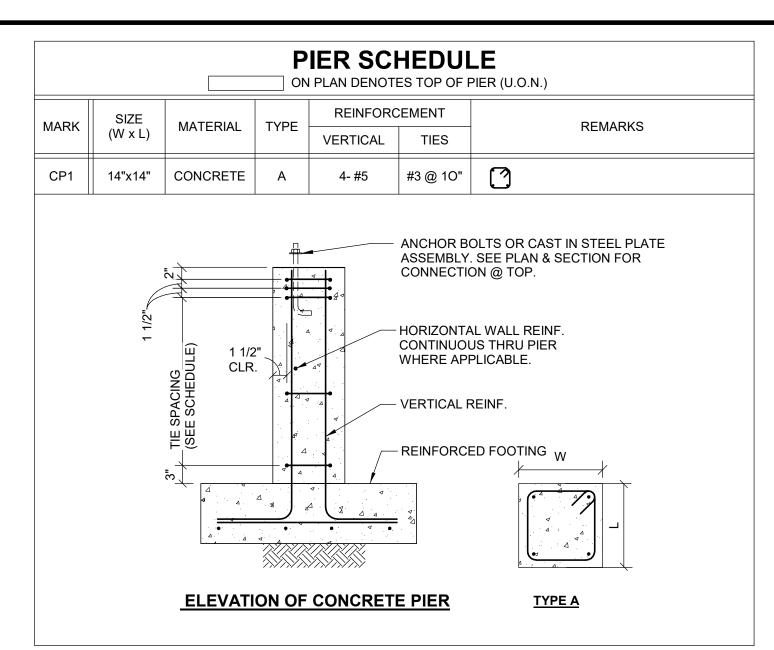


TYPICAL MASONRY HEADER DETAIL

COLUMN SCHEDULE							
MARK	COLUMN SIZE	MATERIAL	REMARKS				
SC1	HSS5x5x1/4	ASTM A500 GRADE B					
SC1E	HSS5x5x1/4	ASTM A500 GRADE B	EXISTING STEEL COLUMN				

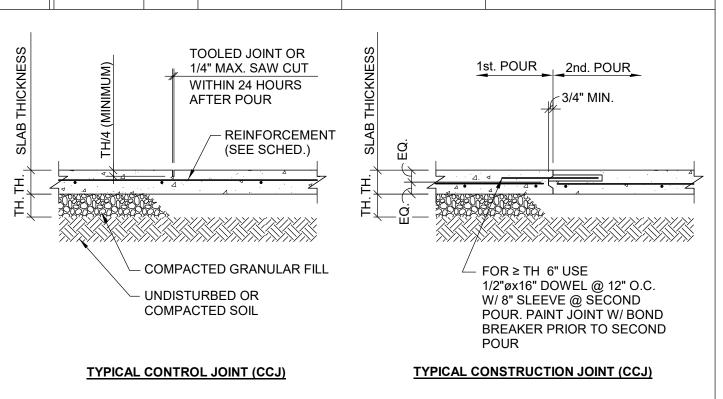
RFAM	SCHEDULE
	SCHEDULE

	DE/ WY 901123922						
MARK	BEAM SIZE	MATERIAL	REMARKS				
SB1	HSS4x4x1/4	ASTM A500 GRADE B					
SB2	W12x35	ASTM A992					
SB3	W12x79	ASTM A992					
SB4	W12x26	ASTM A992	CURTAIN/ FOLDING PARTITION BEAM				



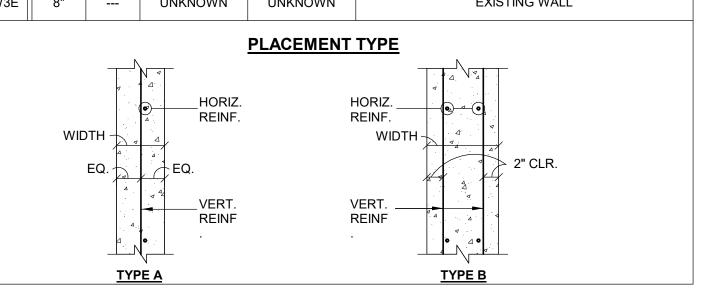
CONCRETE SLAB SCHEDULE

ON PLAN DENOTES TOP OF SLAB (U.O.N.)							
MARK	SLAB THICKNESS (TH)	TH/4	REINFOR	CEMENT	DEMARKS		
			LONGITUDINAL	TRANSVERSE	REMARKS		
CS1	4"	1"	#4 @ 24" O.C.	#4 @ 24" O.C.			
CS2	6"	1 1/2"	#4 @ 18" O.C.	#4 @ 18" O.C.	ADD DOWELS W/ SLEEVES @ CONSTRUCTION JOINTS		
CS3	1 1/2"	-	-	-			



CONCRETE SLAB ON GRADE DETAILS

	ON PLAN DENOTES TOP OF WALL (U.O.N.)							
MARK	WIDTH	TYPE	REINFORCEMENT		DEMARKO			
MARK			HORIZONTAL	VERTICAL	REMARKS			
CW1	8"	Α	#4 @ 12" O.C.	#4 @ 18" O.C.				
CW2	12"	В	#4 @ 16" O.C. EACH FACE	#4 @ 18" O.C. EACH FACE				
CW3	6"	Α	#4 @ 16" O.C.	#4 @ 18" O.C.				
CW1E	12"		2-#5 T & B	#4 @ 24" O.C.	EXISTING WALL			
CW2E	12"		UNKNOWN	UNKNOWN	EXISTING WALL			
CW3E	8"		UNKNOWN	UNKNOWN	EXISTING WALL			





FACILITY 9# SP NEW DISTRICT # 1155 FOOTE DRIVE IDAHO FALLS, IDAHO 83402

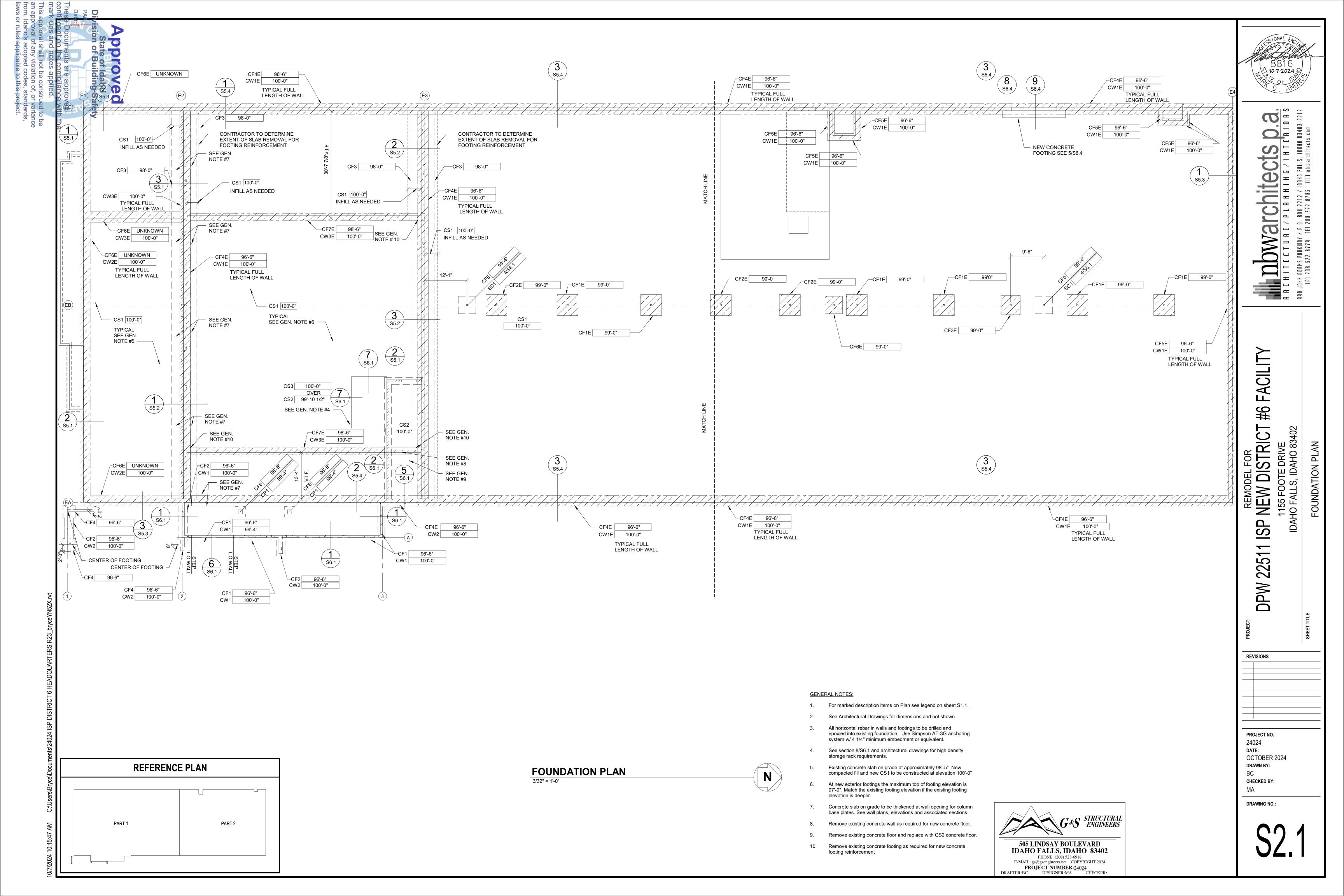
SCHEDULES

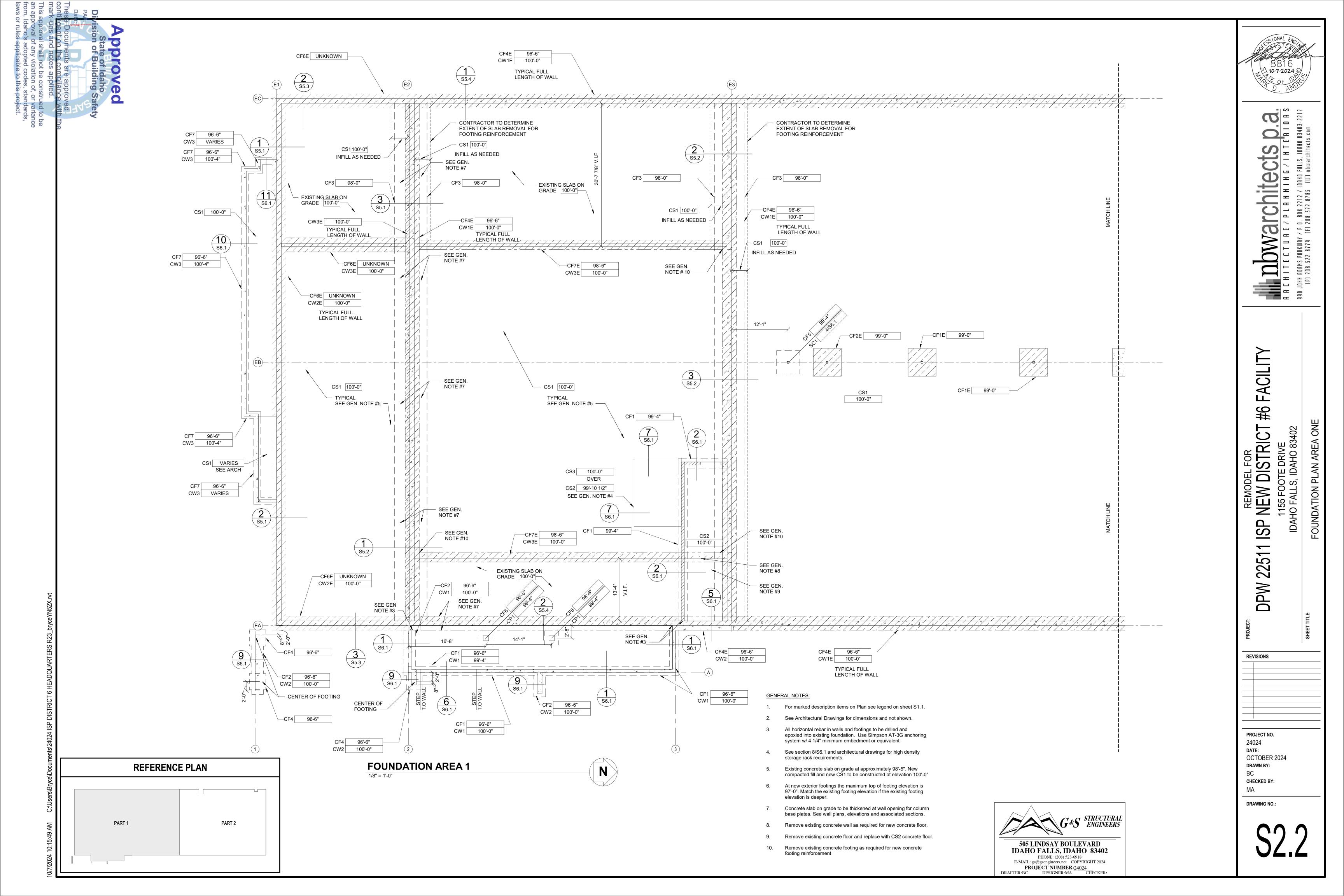
SP

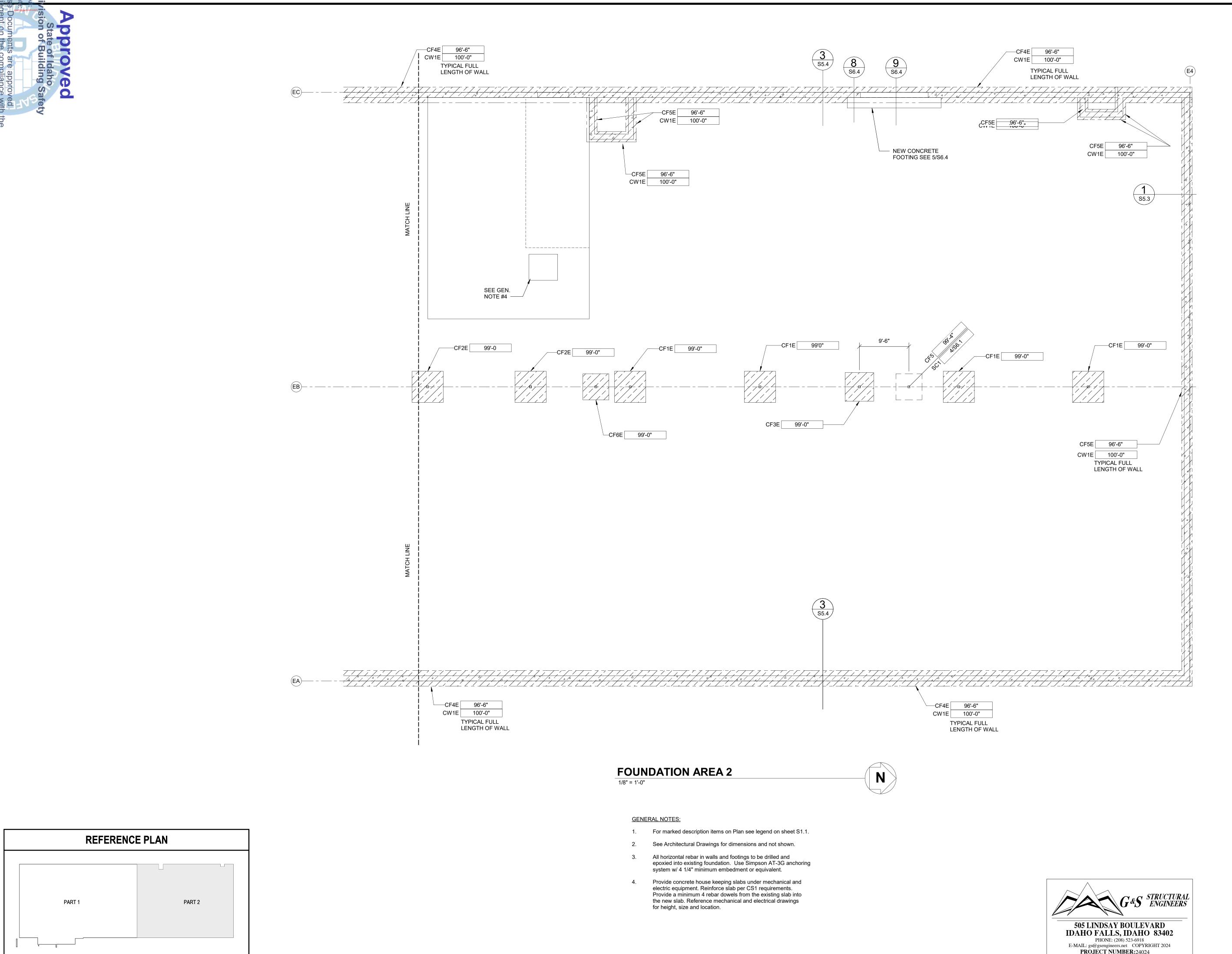
DPW 2251

REVISIONS

PROJECT NO. 24024 DATE: OCTOBER 2024 DRAWN BY: BC CHECKED BY:







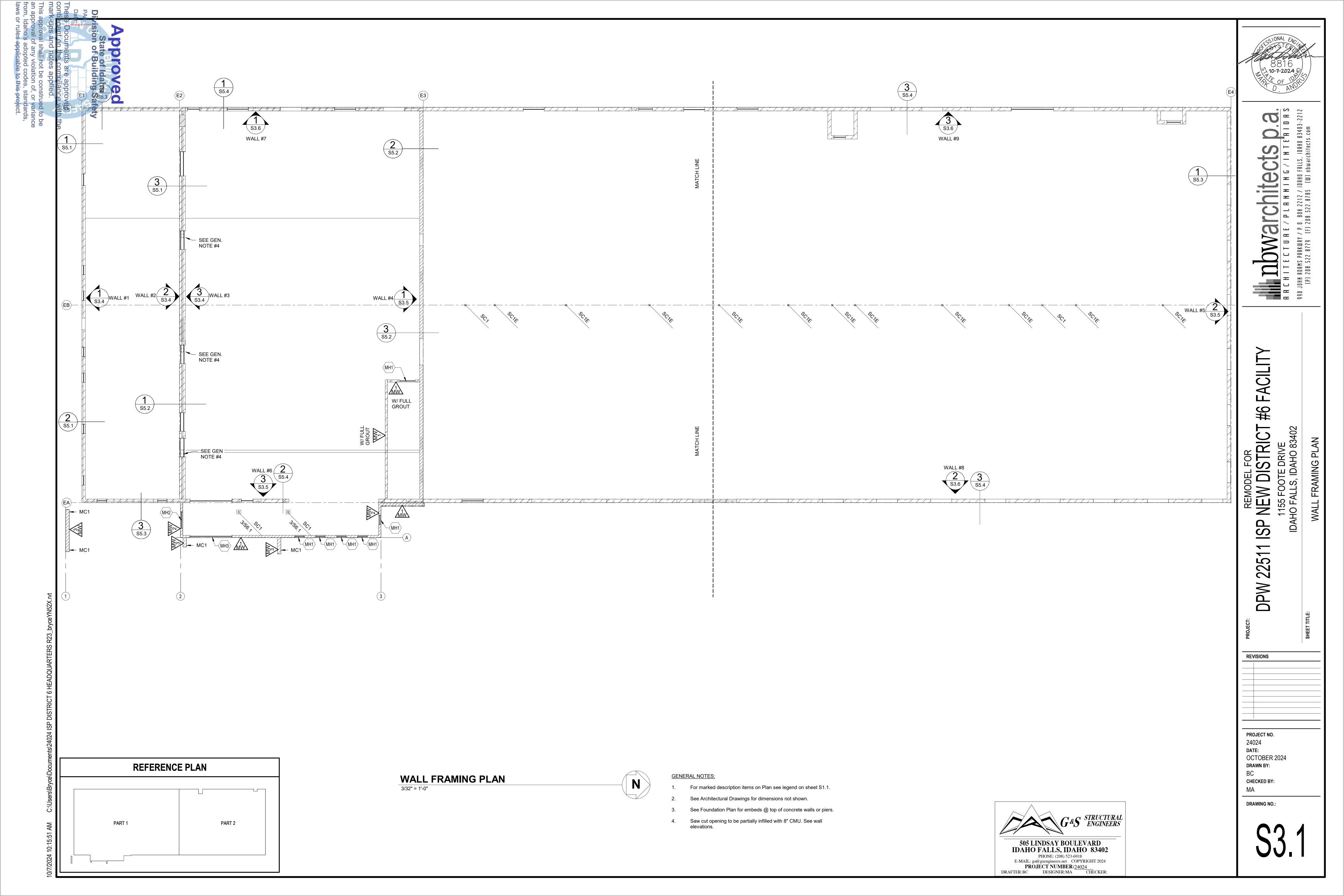
REVISIONS PROJECT NO. 24024 DATE: OCTOBER 2024 DRAWN BY: BC **CHECKED BY:** DRAWING NO.:

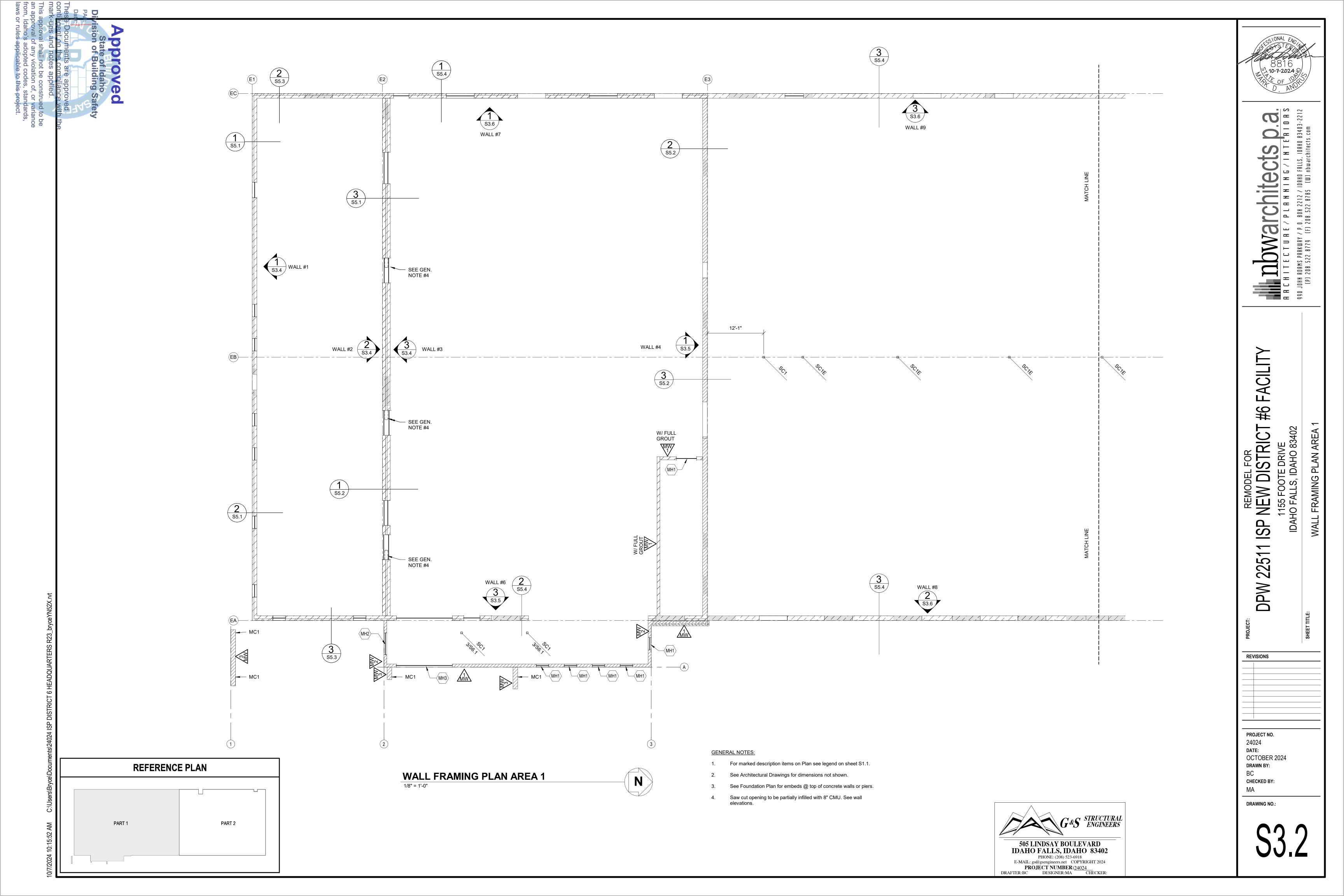
ISP NEW DISTRICT #6 FACILITY
1155 FOOTE DRIVE
IDAHO FALLS, IDAHO 83402

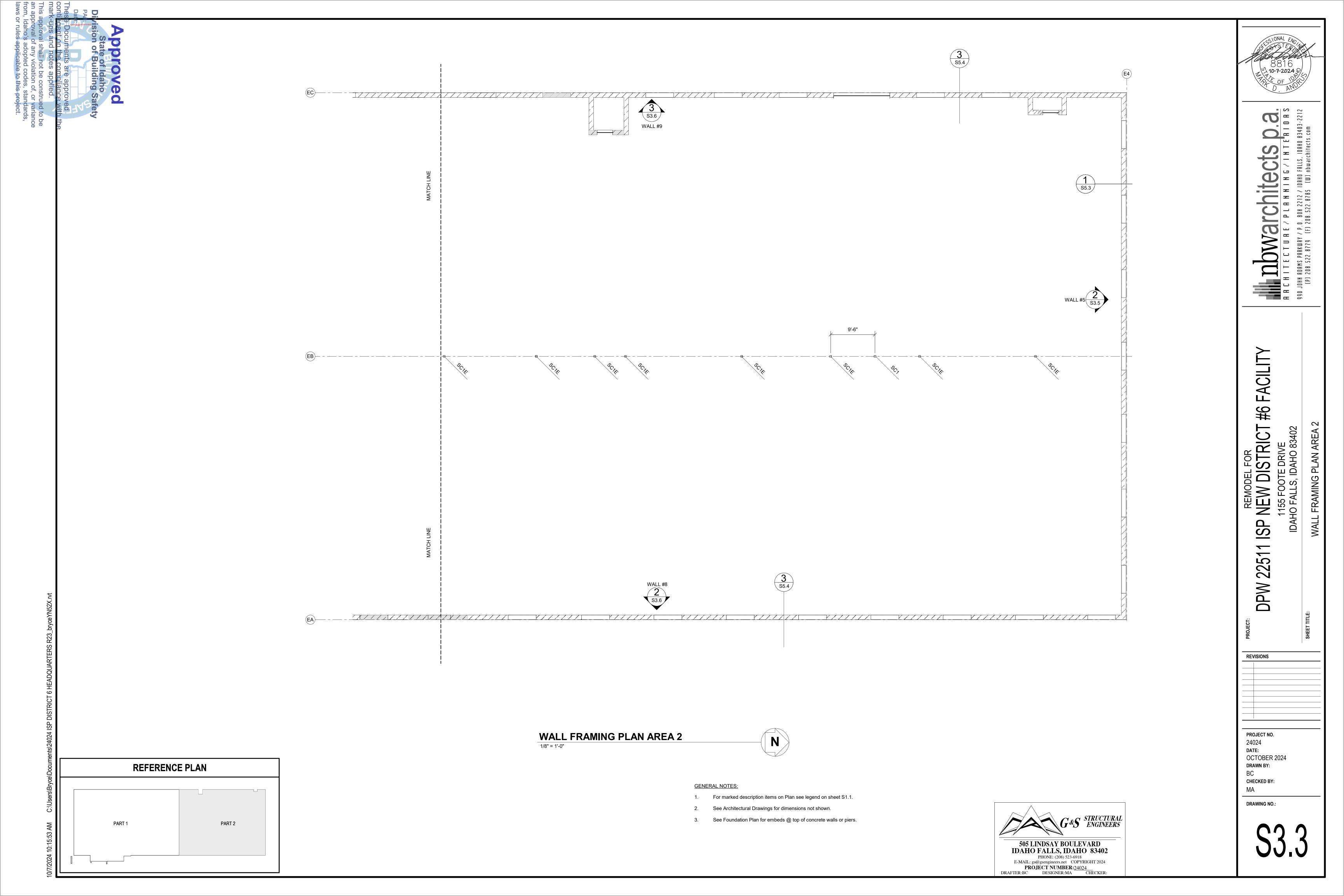
DPW 2251

PROJECT NUMBER: 24024

DRAFTER: BC DESIGNER: MA CHECKER:

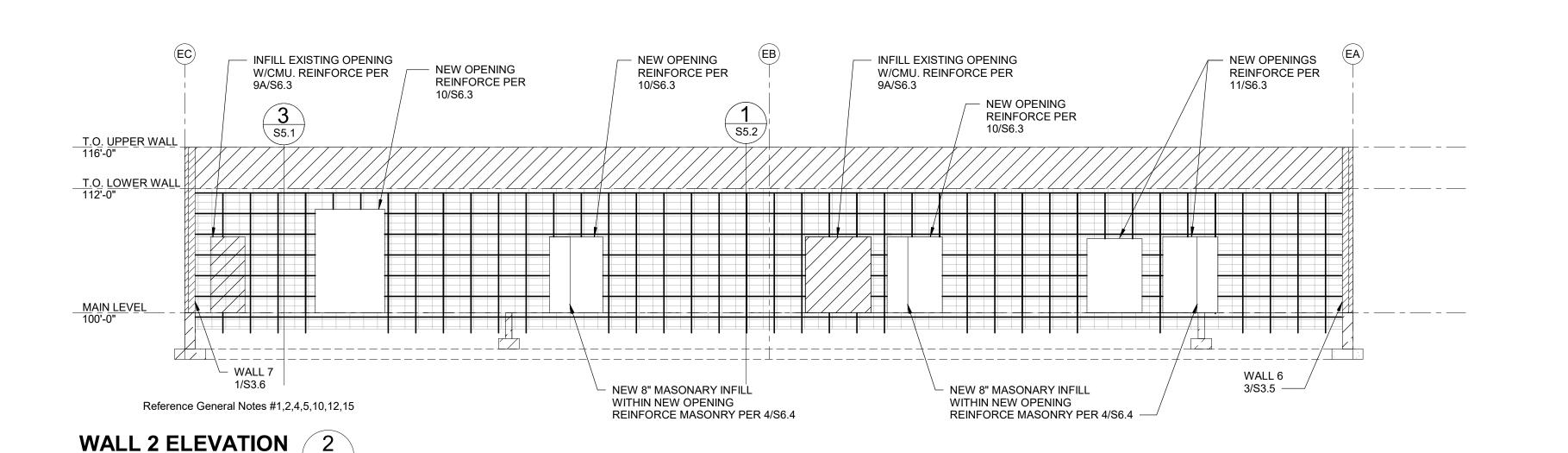


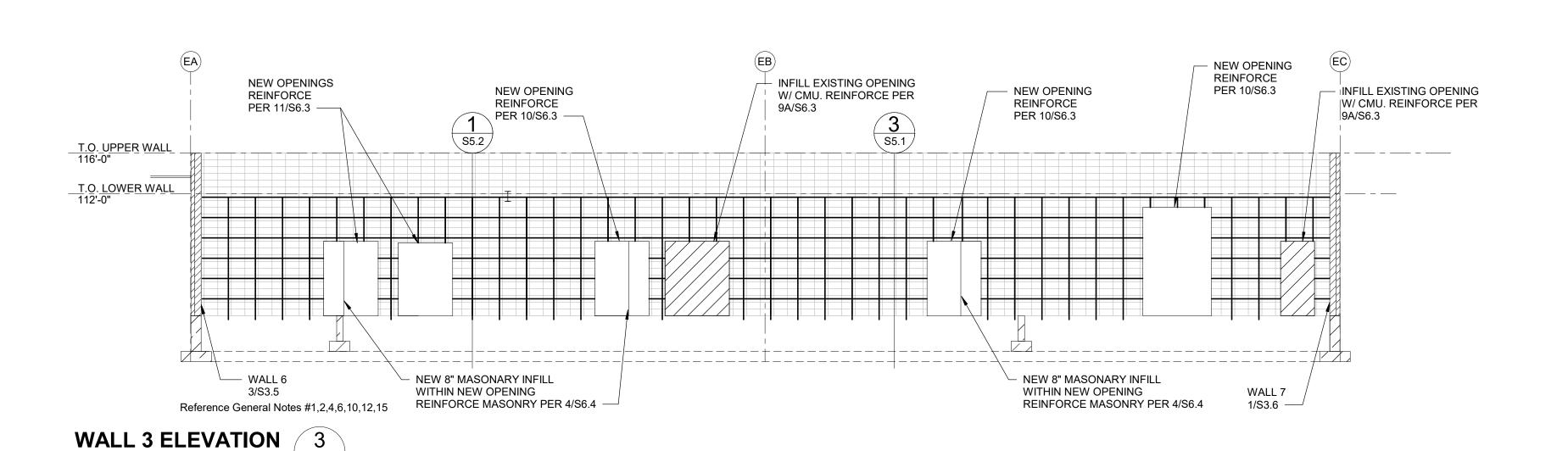




WALL 1 ELEVATION (1)

Reference General Notes #1,2,4,5,10,12





MASONRY WALL ELEVATIONS

GENERAL NOTES:

- It is the contractors responsibility to verify the extents of the existing vertical and horizontal rebar and add rebar as specified. The wall is to be saw cut as necessary to install the specified vertical and horizontal rebar in grout filled cells or fully grouted walls. New vertical rebar is to extend from the foundation to the underside of the roof structure. The new vertical rebar is to be anchored to the foundation wall below with Simpson AT-3G adhesive with 4 1/4" embed (or equivalent). New openings in the existing wall shall have 1-#5 vertical on each side of the opening.
- The existing masonry wall is constructed with a stack bond lay-up. The minimum rebar requirements are #5 vertical at 24" o.c. and #4 horizontal @ 24" o.c. All stack bond walls are to be grouted solid.
- The existing masonry wall is constructed with a running bond lay-up. The minimum requirements are #5 vertical at 32" o.c. and #5 horizontal at 48" o.c. All rebar to be in grouted cells.
- Based upon limited testing the existing vertical rebar is predicted to be #5 vertical at 32" o.c. Contractor to add #5 vertical at 32" o.c. between the existing. The spacing/location of the new vertical rebar is shown as a reference only and shall be verified by the contractor. Wall is to be grouted solid.
- Based upon limited testing the existing horizontal rebar is predicted to be in bond beams located 4', 8' and 12' above finished floor. Contractor to verify and add #4 horizontal rebar as required to ensure a 24" o.c. maximum spacing. Wall is to be
- Based upon limited testing the existing horizontal rebar is predicted to be 2- #4 in lintel block bond beams located at 9' and 12' above finished floor. Contractor to verify and add #4 horizontal as required to ensure a 24" o.c. maximum spacing. Wall is to be grouted solid.
- Based upon limited testing the existing horizontal rebar is predicted to be 2- #4 in lintel block bond beams located at 9' above finished floor. Contractor to verify and add #4 horizontal as required to ensure a 24" o.c. maximum spacing. Wall is to be grouted solid.
- Based upon limited testing the existing vertical rebar is predictd to be #5 vertical at 32" o.c. Contractor to verify and add #5 vertical as required to ensure a 32" o.c. spacing. Rebar to be in grouted cells.
- Based upon limited testing the existing horizontal rebar is predicted to be 2-#4 in lintel block bond beams located at 4', 9' and 12' above finished floor. Contractor to verify and add #5 horizontal at or near 7'-8" and as required to ensure a 48" o.c. maximum spacing. Rebar is to be in grouted cells.
- 'E' within an opening space denotes an existing opening to remain. Hatched areas denote an existing opening to be infilled or partially infilled with new masonry see sections 8 & 8A/S6.3 and 9 & 9A/S6.3
- Existing opening and header. Contractor to verify rebar and grout above existing and report findings to architect of record and/or engineer of record. Provide as part of the bid the same process described in notes #4 and #6.
- Contractor is responsible to shore the existing roof and wall structure as required untill the wall and new openings are reinforced, grouted and cured. Any and all design for the shoring shall be done by the contractor and/or an engineer hired by the contractor
- New opening to recieve a L4x4x1/4 veneer lintel angle for the exterior veneer. Lintel angle to be cut into the veneer with 5" minimum bearing at each end. Veneer to be patched as necessary.
- Add 1-#5 horizontal above opening and extend a minimum 2'-6" past the edge of the opening on each side.
- All reinforcing placement and grouting efforts of the exisiting walls are to receive special inspection per the "Structural Masonry Construction Inspections" on

505 LINDSAY BOULEVARD IDAHO FALLS, IDAHO 83402

E-MAIL: gs@gsengineers.net COPYRIGHT 2024 PROJECT NUMBER: 24024
DRAFTER: BC DESIGNER: MA CHECKER: كم 10-7-2024 *كم*

nbw.

FACILIT

9#

REMODEL FO

ISP

DPW 2251

REVISIONS

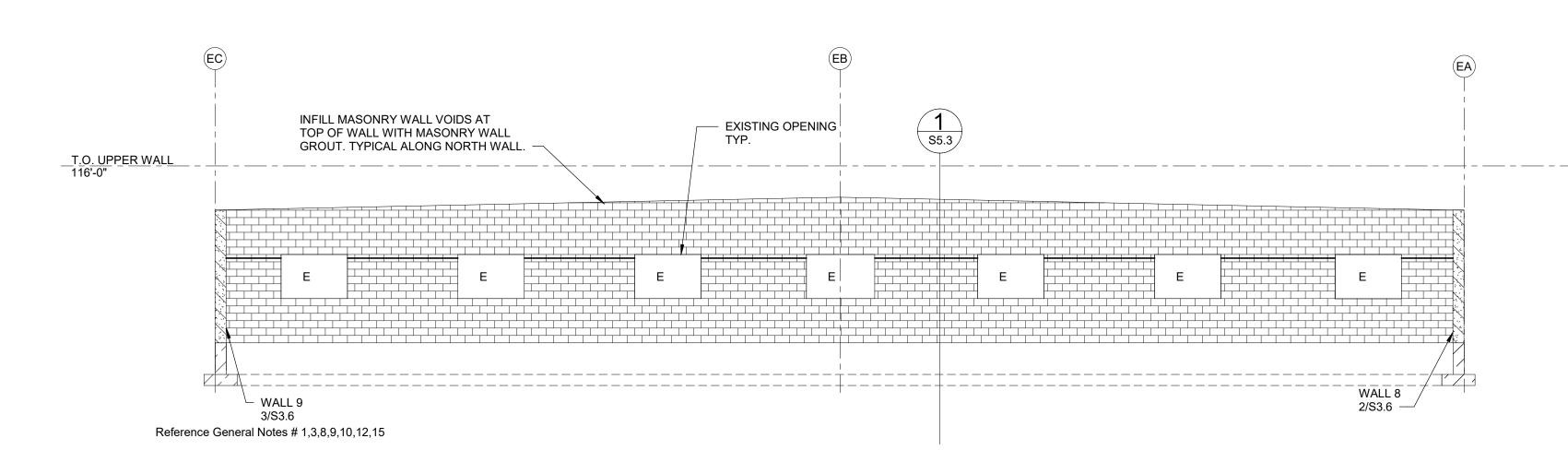
PROJECT NO.

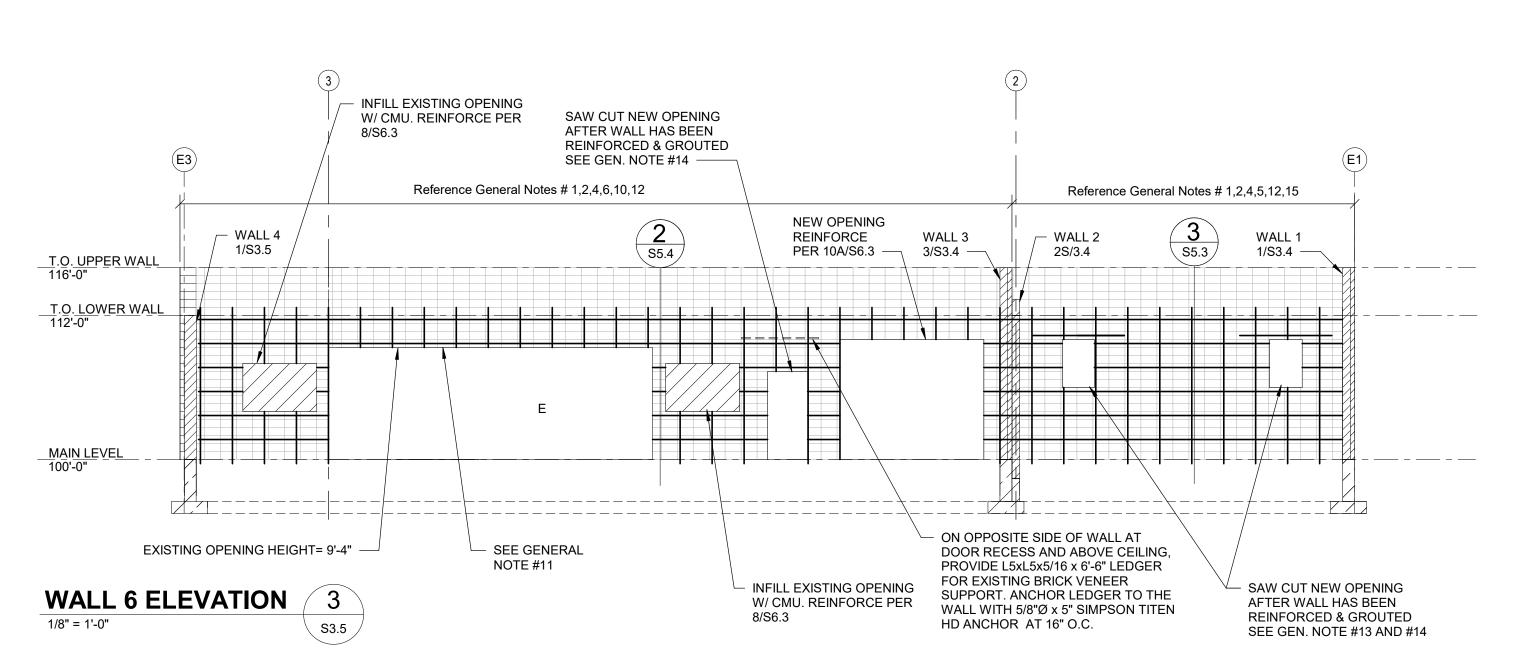
24024 DATE: OCTOBER 2024 DRAWN BY: BC CHECKED BY:

Reference General Notes # 1,2,4,7,10,12,15 **WALL 4 ELEVATION**

WALL 5 ELEVATION 2

S3.5





MASONRY WALL ELEVATIONS

GENERAL NOTES:

3/S3.5 -

- It is the contractors responsibility to verify the extents of the existing vertical and horizontal rebar and add rebar as specified. The wall is to be saw cut as necessary to install the specified vertical and horizontal rebar in grout filled cells or fully grouted walls. New vertical rebar is to extend from the foundation to the underside of the roof structure. The new vertical rebar is to be anchored to the foundation wall below with Simpson AT-3G adhesive with 4 1/4" embed (or equivalent). New openings in the existing wall shall have 1-#5 vertical on each side of the opening.
- The existing masonry wall is constructed with a stack bond lay-up. The minimum rebar requirements are #5 vertical at 24" o.c. and #4 horizontal @ 24" o.c. All stack bond walls are to be grouted solid.
- The existing masonry wall is constructed with a running bond lay-up. The minimum requirements are #5 vertical at 32" o.c. and #5 horizontal at 48" o.c. All rebar to be in grouted cells.
- Based upon limited testing the existing vertical rebar is predicted to be #5 vertical at 32" o.c. Contractor to add #5 vertical at 32" o.c. between the existing. The spacing/location of the new vertical rebar is shown as a reference only and shall be verified by the contractor. Wall is to be grouted solid.
- Based upon limited testing the existing horizontal rebar is predicted to be in bond beams located 4', 8' and 12' above finished floor. Contractor to verify and add #4 horizontal rebar as required to ensure a 24" o.c. maximum spacing. Wall is to be
- Based upon limited testing the existing horizontal rebar is predicted to be 2- #4 in lintel block bond beams located at 9' and 12' above finished floor. Contractor to verify and add #4 horizontal as required to ensure a 24" o.c. maximum spacing. Wall is to be grouted solid.
- Based upon limited testing the existing horizontal rebar is predicted to be 2- #4 in lintel block bond beams located at 9' above finished floor. Contractor to verify and add #4 horizontal as required to ensure a 24" o.c. maximum spacing. Wall is to be grouted solid.
- Based upon limited testing the existing vertical rebar is predictd to be #5 vertical at 32" o.c. Contractor to verify and add #5 vertical as required to ensure a 32" o.c.
- spacing. Rebar to be in grouted cells. Based upon limited testing the existing horizontal rebar is predicted to be 2- #4 in lintel block bond beams located at 4', 9' and 12' above finished floor. Contractor to verify and add #5 horizontal at or near 7'-8" and as required to ensure a 48" o.c.
- 'E' within an opening space denotes an existing opening to remain. Hatched areas denote an existing opening to be infilled or partially infilled with new masonry see sections 8 & 8A/S6.3 and 9 & 9A/S6.3

maximum spacing. Rebar is to be in grouted cells.

505 LINDSAY BOULEVARD IDAHO FALLS, IDAHO 83402

E-MAIL: gs@gsengineers.net COPYRIGHT 2024 PROJECT NUMBER: 24024
DRAFTER: BC DESIGNER: MA CHECKER:

- Existing opening and header. Contractor to verify rebar and grout above existing and report findings to architect of record and/or engineer of record. Provide as part of the bid the same process described in notes #4 and #6.
- Contractor is responsible to shore the existing roof and wall structure as required untill the wall and new openings are reinforced, grouted and cured. Any and all design for the shoring shall be done by the contractor and/or an engineer hired by the contractor
- New opening to recieve a L4x4x1/4 veneer lintel angle for the exterior veneer. Lintel angle to be cut into the veneer with 5" minimum bearing at each end. Veneer to be patched as necessary.
- Add 1-#5 horizontal above opening and extend a minimum 2'-6" past the edge of the opening on each side.
- All reinforcing placement and grouting efforts of the exisiting walls are to receive special inspection per the "Structural Masonry Construction Inspections" on

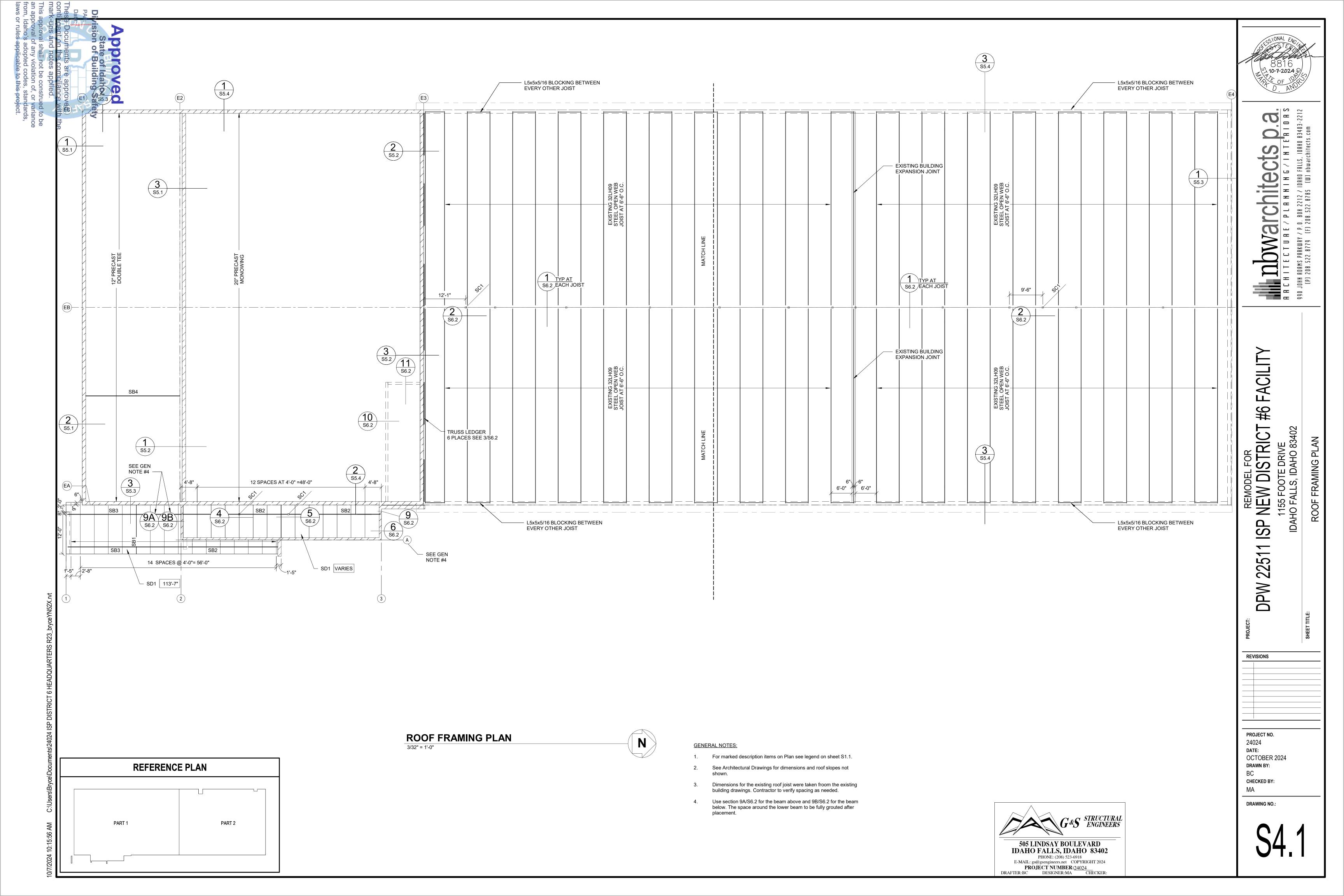
10-7-2024 S

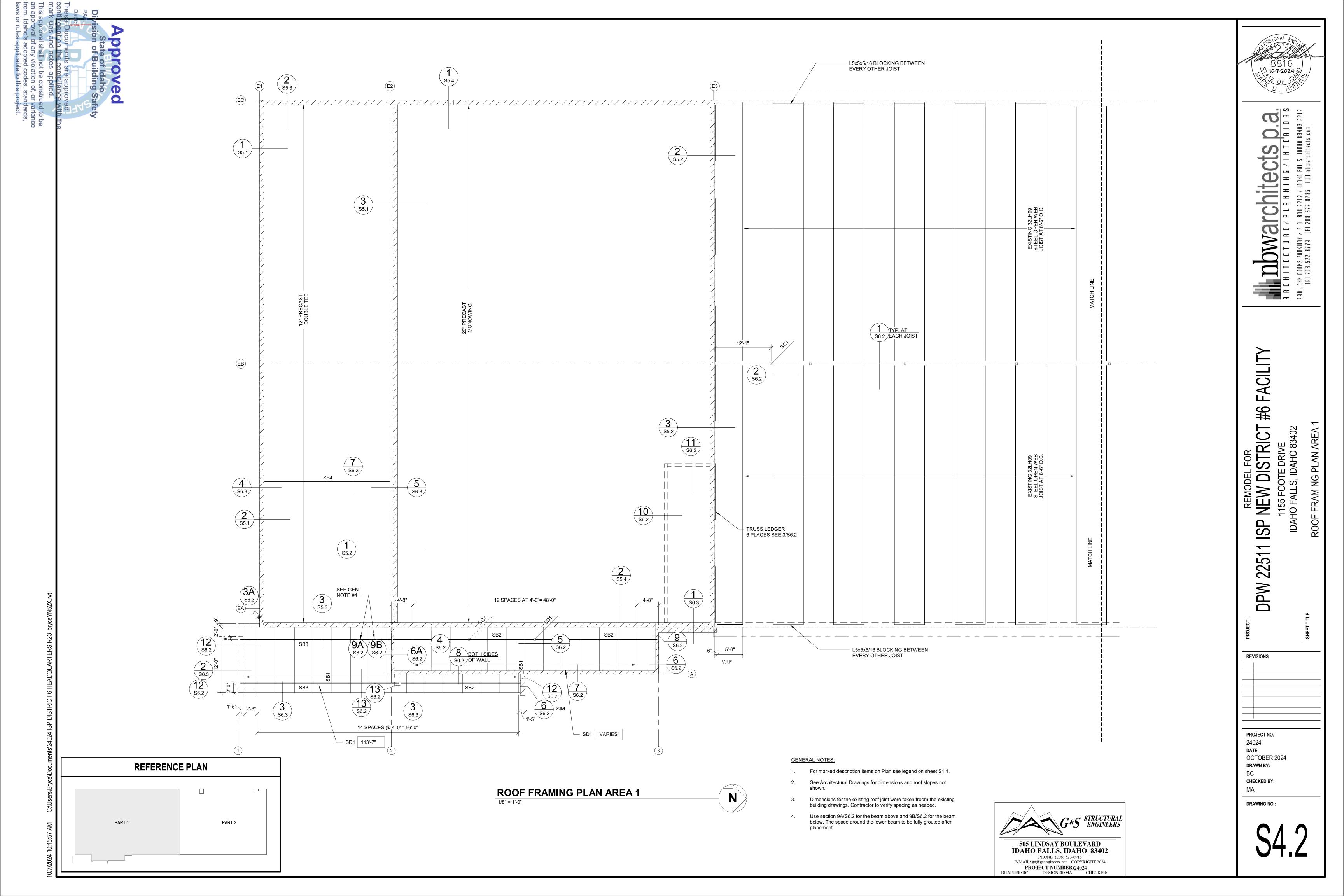
FACILIT 9# REMODEL FC SP

REVISIONS

DPW 2251

PROJECT NO. 24024 DATE: OCTOBER 2024 DRAWN BY: BC CHECKED BY:





- L5x5x5/16 BLOCKING BETWEEN EVERY OTHER JOIST S5.3 EXISTING BUILDING EXPANSION JOINT EXISTING 32LH09 STEEL OPEN WEB JOIST AT 6'-6" O.C. EXISTING 32LH09 STEEL OPEN WEB JOISTS AT 6'-6" O.C. 1 S6.2 TYP AT EACH JOIST ISP NEW DISTRICT #6 FACILITY
1155 FOOTE DRIVE
IDAHO FALLS, IDAHO 83402 9'-6" <u>2</u> S6.2 EXISTING 32LH09 STEEL OPEN WEB JOISTS AT 6'-6" O.C. EXISTING 32LH0 STEEL OPEN WE JOIST AT 6'-6" O. EXISTING BUILDING **EXPANSION JOINT** SP **DPW 22511** 3 S5.4 - L5x5x5/16 BLOCKING BETWEEN EVERY OTHER JOIST REVISIONS **ROOF FRAMING PLAN AREA 2** N 1/8" = 1'-0" PROJECT NO. 24024 **GENERAL NOTES:** DATE: 1. For marked description items on Plan see legend on sheet S1.1. **REFERENCE PLAN** DRAWN BY: 2. See Architectural Drawings for dimensions and roof slopes not BC CHECKED BY: Dimensions for the existing roof joist were taken froom the existing building drawings. Contractor to verify spacing as needed. DRAWING NO.: PART 2 505 LINDSAY BOULEVARD IDAHO FALLS, IDAHO 83402 PHONE: (208) 523-6918
E-MAIL: gs@gsengineers.net COPYRIGHT 2024
PROJECT NUMBER: 24024
DRAFTER: BC DESIGNER: MA CHECKER:

OCTOBER 2024

— - — /////// - — - — - — - — - — - — - — -EXISTING 12" PRECAST DBL TEE EXISTING 12" PRECAST DOUBLE TEE - EXISTING 20" PRECAST MONOWING - EXISTING 12" PRECAST DBL TEE NEW #5 VERTICAL REBAR @ 32" O.C. NEW #5 VERTICAL REBAR @32" O.C. — - NEW #5 VERTICAL REBAR @ 32" O.C. - NEW #5 VERTICAL REBAR @ 32" O.C. NEW #4 HORIZONTAL REBAR @ 24" O.C. - NEW #4 HORIZONTAL REBAR @ 24" O.C. NEW #4 HORIZONTAL REBAR @ 24" O.C. NEW #4 HORIZONTAL REBAR @ 24" O.C. EXISTING BRICK FACILITY EXISTING 8" MASONRY WALL MASONRY WALL EXISTING 8" MASONRY WALL EXISTING 8" MASONRY WALL REMODEL FOR

ISP NEW DISTRICT #

1155 FOOTE DRIVE
IDAHO FALLS, IDAHO 83402 2 1/2" MIN 2 1/2" MIN REBAR DOWEL
 SEE GEN. NOTE #1 **REBAR DOWEL** REBAR DOWEL SEE GEN. NOTE #1 SEE GEN. NOTE #1 NEW CONCRETE SLAB ON ON SHEET S3.4 ON SHEET S3.4 ON SHEET S3.4 GRADE OVER COMPACTED FILL TYPICAL EACH SIDE OF WALL — EXISTING CONCRETE SLAB ON GRADE REMOVE EXISTING SLAB NEW CONCRETE SLAB ON ON GRADE AS NECESSARY GRADE OVER COMPACT FILL FOR FOOTING ADDITION 2'-8" TYPICAL EACH SIDE OF WALL 225 EXISTING MASONRY WALL MAIN LEVEL 100'-0" MAIN LEVEL 100'-0" <u>MAIN LEVEL</u> 100'-0" DPW EXISTING CONCRETE WALL EXISTING CONCRETE WALL EXISTING CONCRETE FOOTING EXISTING CONCRETE FOOTING -#4 @ 48" O.C. DRILLED & EPOXIED INTO EXISTING EXISTING CONCRETE FOUNDATION WALL MIN 4" REVISIONS SLAB ON GRADE EACH SIDE #6 @ 24" O.C. DRILLED THROUGH BOTH WALLS AND EXPOXIED - REBAR TO BE CONTINUOUS THROUGH WALL 4-#4 LONGITUDINAL TOP AND BOTTOM EACH SIDE -**EXISTING CONCRETE FOOTING** NEW CONCRETE REINFORCING FOOTINGS SEE PLAN PROJECT NO. 24024 1. USE SIMPSON AT-3G ADHESIVE (OR EQUAL) WHERE EPOXY IS SPECIFIED DATE: OCTOBER 2024 DRAWN BY: 2 BC **SECTION SECTION** 3 **SECTION** CHECKED BY: 3/4" = 1'-0" 3/4" = 1'-0" 3/4" = 1'-0" S5.1 S5.1 S5.1 DRAWING NO.: 505 LINDSAY BOULEVARD IDAHO FALLS, IDAHO 83402 PHONE: (208) 523-6918 E-MAIL: gs@gsengineers.net COPYRIGHT 2024 PROJECT NUMBER: 24024

DRAFTER: BC DESIGNER: MA CHECKER:

— 2-#4 HORIZONTAL AT TOP OF WALL (EXISTING) SAW CUT PENETRATIONS THOUGH VENEER FOR HSS SPACER -— 1/4" END PLATE 4 5/8" V.I.F BRICK VENNER TO BE CUT HSS 3x3x3/16 @ 32" O.C. VENEER SPACER. AND REMOVED @ EACH HSS FIELD VERIFY LENGTH — 5/8"Ø THREADED ROD W/NUT WELDED TO BACK SIDE OF END PLATE L4x4x1/4x CONT. - VERIFY EMBED PLATES IN PRECAST ARE WELDED TO ANCHOR PLATES IN THE WALL (48" O.C.) PROVIDE 3x3x1/4 PLATE WASHER EXISTING 1 1/2" STEEL DECKING 1/4" FILLET WÈLD IF NÓ WELD 3/16 / 3 2-#4 HORIZONTAL AT STEEL DECKING EXISTING 12" PRECAST DBL TEE TOP OF WALL (EXISTING) — EXISTING 12" PRECAST DBL TEE **ELEVATION OF DECK VARIES** - EXISTING ROOF JOIST STEEL ROOF JOIST $_$ 3/16 T.O. LOWER WALL 112'-0" ✓ VERIFY EMBED PLATES IN PRECAST ARE WELDED TO ANCHOR PLATES
IN ADJACENT PRECAST PANEL (48" O.C.)
PROVIDE 1/4" FILLET WELD IF NO WELD STEEL BEAM VERIFY EMBED PLATES IN PRECAST ARE WELDED TO ANCHOR PLATES IN ADJACENT PRECAST PANEL (48" O.C.)
PROVIDE 1/4" FILLET WELD IF NO WELD — - NEW #5 VERTICAL REBAR @ 32" O.C. NEW #5 VERTICAL REBAR @ 32" O.C. - VERIFY EMBED PLATES IN PRECAST ARE WELDED TO ANCHOR PLATES IN THE WALL (48" O.C.) PROVIDE 1/4" FILLET WÈLD IF NO WELD - NEW #4 HORIZONTAL REBAR @ 24" O.C. NEW #4 HORIZONTAL REBAR @ 24" O.C. FACILIT 2-#4 HORIZONTAL AT +- 9'-0" (EXISTING) EXISTING BRICK VENEER -EXISTING MASONRY 9# EXISTING 8" - NEW #5 HORIZONTAL MASONRY WALL REMODEL FOR

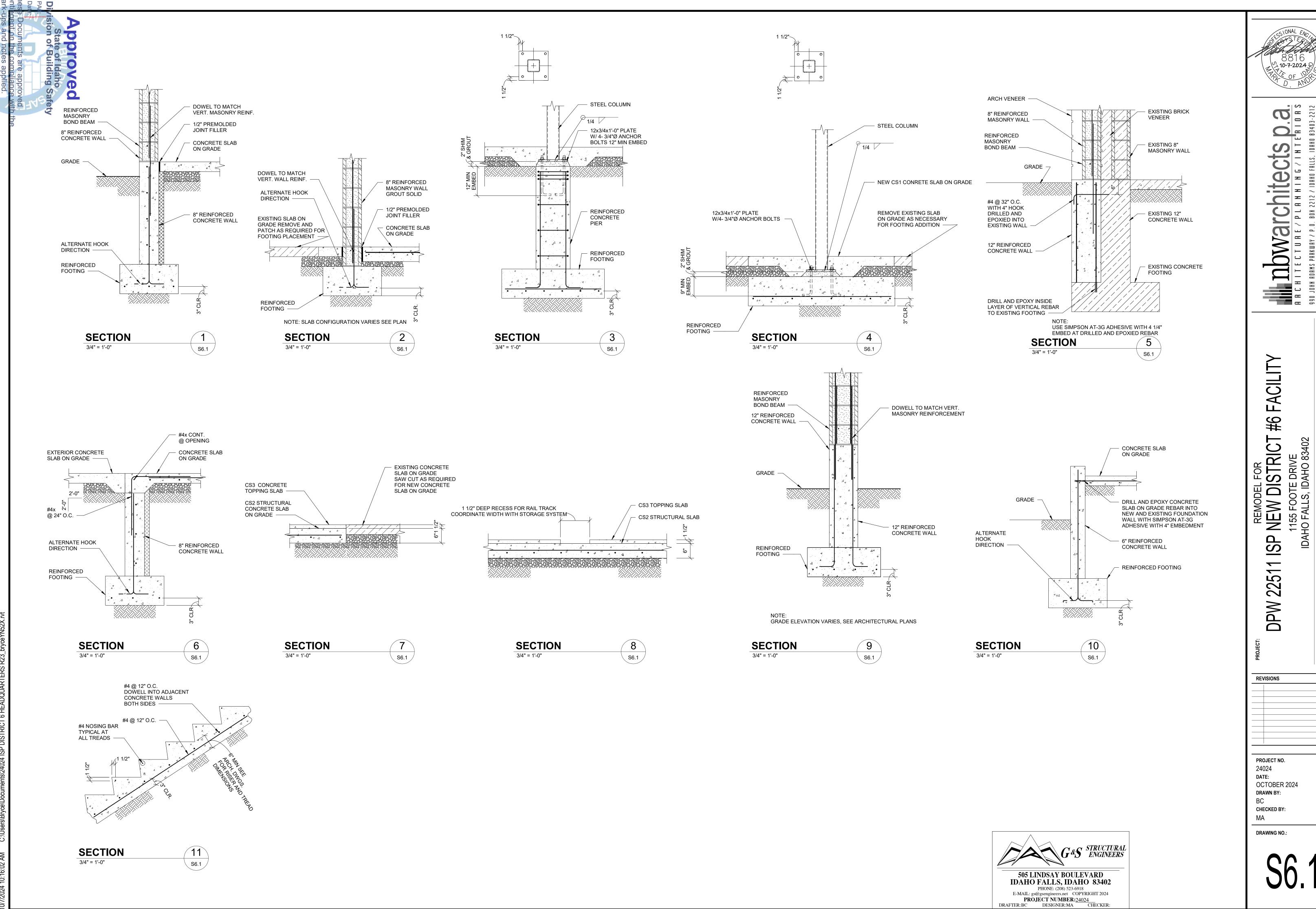
ISP NEW DISTRICT #

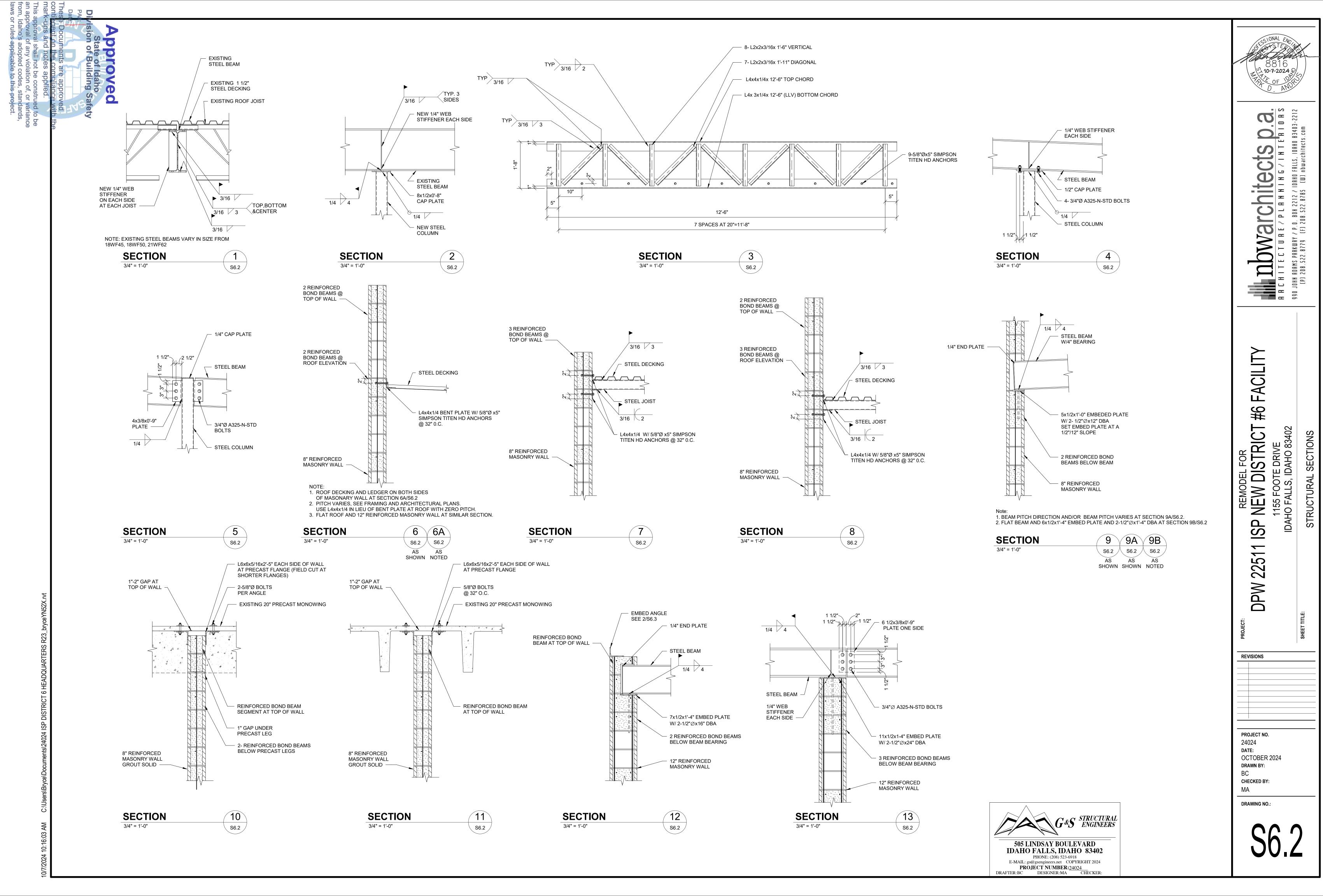
1155 FOOTE DRIVE
IDAHO FALLS, IDAHO 83402 REBAR WITH GROUT - EXISTING 8" MASONRY WALL ___2 1/2" MIN WITH #5 VERTICAL AT 32" O.C. REBAR DOWEL SEE GEN. NOTE #1 REBAR DOWEL ON SHEET S3.6 SEE GEN. NOTE #1 ON SHEET S 3.5 — 2-#4 HORIZONTAL AT +- 4'-0" (EXISTING) EXISTING CONCRETE SLAB ON GRADE NEW CONCRETE SLAB ON GRADE OVER COMPACTED FILL 2251 EXISTING CONCRETE SLAB ON GRADE <u>MAIN LEVEL</u> 100'-0" DPW EXISTING CONCRETE WALL EXISTING CONCRETE WALL EXISTING CONCRETE WALL EXISTING CONCRETE FOOTING REVISIONS EXISTING CONCRETE SLAB ON GRADE EXISTING CONCRETE FOOTING EXISTING CONCRETE FOOTING PROJECT NO. 24024 DATE: OCTOBER 2024 DRAWN BY: **SECTION SECTION SECTION** BC 3/4" = 1'-0" 3/4" = 1'-0" S5.3 S5.3 **CHECKED BY:** 3/4" = 1'-0" S5.3 / DRAWING NO.: **505 LINDSAY BOULEVARD** IDAHO FALLS, IDAHO 83402 PHONE: (208) 523-6918 E-MAIL: gs@gsengineers.net COPYRIGHT 2024 PROJECT NUMBER: 24024

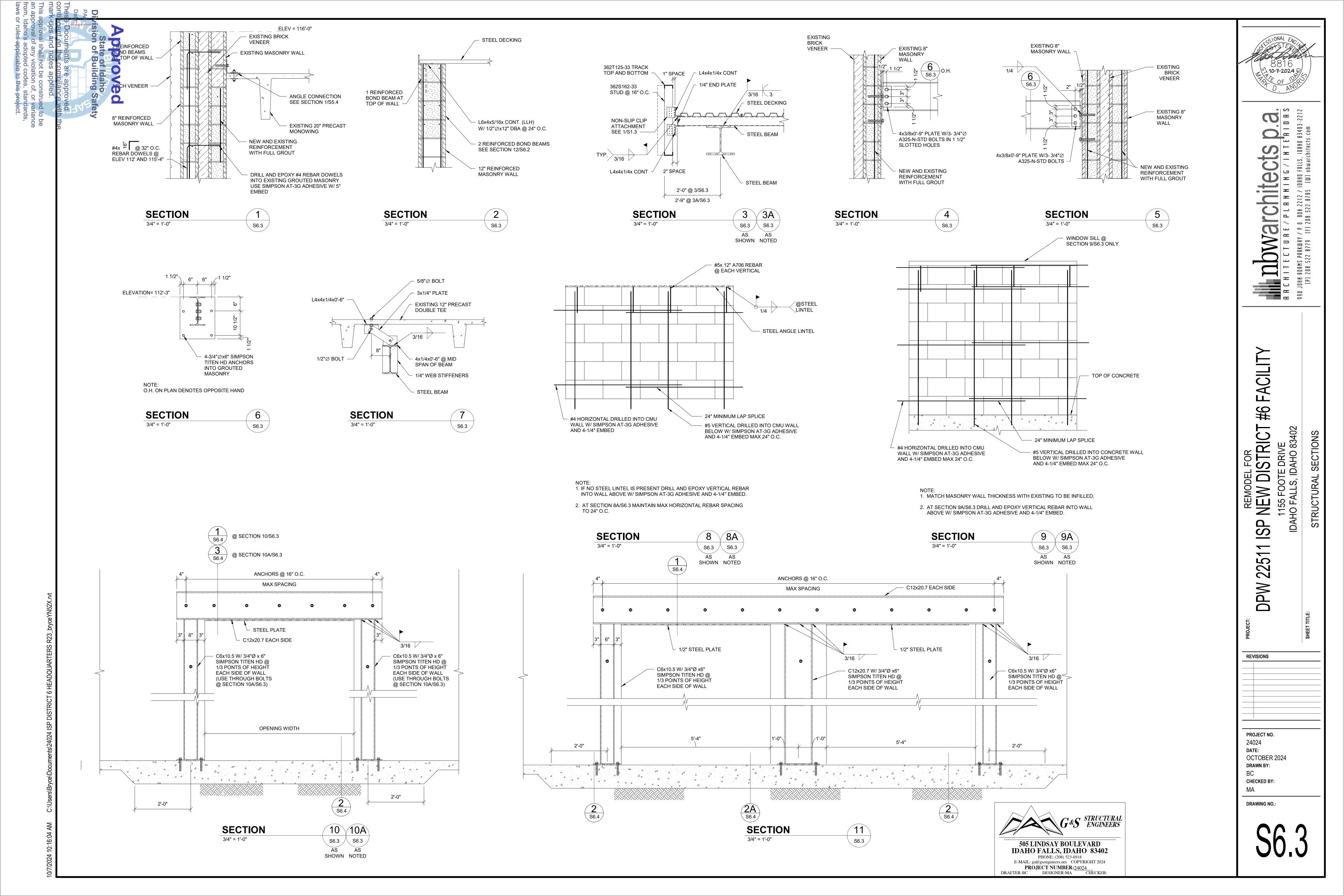
DRAFTER: BC DESIGNER: MA CHECKER:

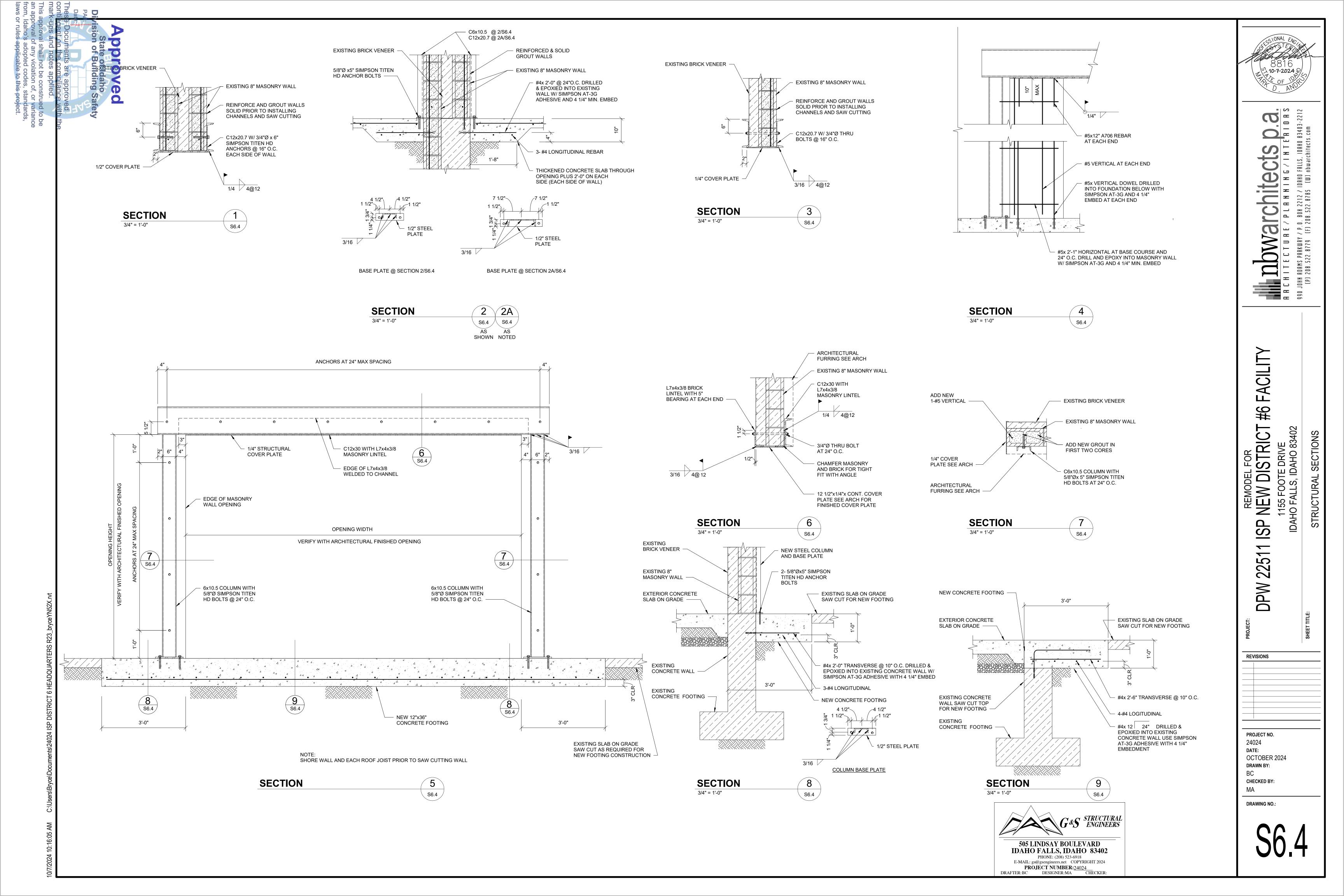
2-#4 HORIZONTAL AT TOP OF WALL (EXISTING) 1/4" END PLATE SAW CUT PENETRATIONS THROUGH 5/8"Ø THREADED ROD W/NUT WELDED VENEER FOR HSS SPACER -TO BACK SIDE OF END PLATE HSS 3x3x3/16 @ 32" O.C. VENEER SPACER 2-#4 HORIZONTAL AT - 3x3x1/4 PLATE WASHER TOP OF WALL (EXISTING) FIELD VERIFY LENGTH L4x4x1/4x - 5/8" Ø HEADED BOLT GROUTED - 5/8" Ø HEADED BOLT GROUTED CONT. — INTO MASONRY OR SIMPSON INTO MASONRY OR SIMPSON TITEN HD ANCHORS WITH 5" EMBED TITEN HD ANCHORS WITH 5" EMBED _AT 32" O.C. INTO GROUTED CORES._ AT 32" O.C. INTO GROUTED CORES. SLOT BOLT HOLES VERTICALLY IN 3/16 / 3 SLOT BOLT HOLES VERTICALLY IN VERTICAL LEG (1 1/4" WITH BOLT CENTERED) 3/16 2 VERTICAL LEG (1 1/4" WITH BOLT CENTERED) ATTACH STEEL DECK TO NEW ANGLE STEEL DECKING $^{/}$ EXISTING 20" PRECAST MONOWING $\,-\,$ WITH 5/8"Ø PUDDLE WELD AT 6"O.C. L6x6x5/16xCONTINUOUS EXISTING 20" PRECAST MONOWING L5x5x5/16 BLOCKING BETWEEN 5/8"Ø BOLTS **EVERY OTHER JOIST** @ 48" O.C. 〔3/16 ✓ - 5/8"Ø BOLTS - 1 1/2"x20 GAGE STEEL AT 48" O.C. DECK (EXISTING) STEEL BEAM -STEEL ROOF JOIST T.O. LOWER WALL 112'-0" T.O. LOWER WALL 112'-0" BRICK VENEER TO BE CUT AND REMOVED @ EACH HSS L6x6x5/16xCONTINUOUS EXISTING L4x3x5/16 EMBED ANGLE AT EACH JOIST — - NEW #5 VERTICAL REBAR @ 32" O.C. 2-#4 HORIZONTAL AT - NEW #5 VERTICAL REBAR @ 32" O.C. TOP OF WALL(EXISTING) NEW #4 HORIZONTAL REBAR @ 24" O.C. NEW #4 HORIZONTAL REBAR @ 24" O.C. EXISTING BRICK VENEER -32" LH09 STEEL JOIST WITH 10"x1"x0'-10" BEARING SEAT (EXISTING) — EXISTING BRICK VENEER MASONRY WALL FACILIT - 2-#4 HORIZONTAL AT EXISTING BRICK VENEER **EXISTING** +- 9'-0" (EXISTING) MASONRY WALL NEW #5 HORIZONTAL 9# REBAR WITH GROUT ISP NEW DISTRICT # 1155 FOOTE DRIVE IDAHO FALLS, IDAHO 83402 EXISTING 8" MASONRY WALL
 WITH #5 VERTICAL @ 32" O.C. REBAR DOWEL REBAR DOWEL SEE GEN. NOTE #1 SEE GEN. NOTE #1 ON SHEET S 3.5 ON SHEET S3.6 - 2-#4 HORIZONTAL AT +- 4'-0" (EXISTING) **EXISTING CONCRETE** SLAB ON GRADE - EXISTING CONCRETE SLAB ON GRADE - EXISTING CONCRETE SLAB ON GRADE 225 MAIN LEVEL 100'-0" MAIN LEVEL 100'-0" DPW ÉXISTING CONCRETE WALL EXISTING CONCRETE WALL EXISTING CÓNCRÉTÉ WÂLL REVISIONS EXISTING CONCRETE FOOTING EXISTING CONCRETE FOOTING EXISTING CONCRETE FOOTING PROJECT NO. 24024 1. IF THE EXISTING EMBED PLATE AT THE TOP OF THE WALL IS TOO SHORT TO ALLOW A MINIMUM 3" OF WELD NOTCH THE DATE: ANGLE UP AND OVER THE 1" THICK 10"x10" JOIST SEAT AND WELD OCTOBER 2024 TO THE TOP OF THE JOIST SEAT ALSO. VERIFY EXISTENCE OF 1/4" FILLET WELD BETWEEN EMBED PLATE AND JOIST SEAT ON EACH DRAWN BY: SIDE OF JOIST. ADD WELD AS REQUIRED. 2 **SECTION SECTION SECTION** CHECKED BY: 3/4" = 1'-0" 3/4" = 1'-0" 3/4" = 1'-0" S5.4 S5.4 S5.4 DRAWING NO.: **505 LINDSAY BOULEVARD** IDAHO FALLS, IDAHO 83402 PHONE: (208) 523-6918 E-MAIL: gs@gsengineers.net COPYRIGHT 2024 PROJECT NUMBER: 24024

DRAFTER: BC DESIGNER: MA CHECKER:









CLOSELY COORDINATE ALL MECHANICAL WITH ELECTRICAL, ARCHITECTURAL, AND STRUCTURAL. DUCTWORK AND PIPING IS APPROXIMATE AND DIAGRAMMATIC AND IS NOT TO BE SCALED. PROVIDE ALTERNATE ROUTING, OFFSETS, AND TRANSITIONS AS REQUIRED FOR COORDINATION OF ALL WORK WITHOUT ADDITIONAL COST TO

FIELD VERIFY ALL MECHANICAL PRIOR TO COMMENCING NEW WORK. DO NOT FABRICATE OR INSTALL ANY MECHANICAL BEFORE VERIFYING DIMENSIONS AND ROUTING WITH BUILDING CONDITIONS AND ALL OTHER TRADES.

CONTRACTOR IS RESPONSIBLE FOR ALL APPLICABLE PERMITS AND FEES.

IF DISCREPANCIES EXIST BETWEEN BUILDING CODES, DRAWINGS, NOTES, AND SPECIFICATIONS, THE MOST STRINGENT REQUIREMENT WILL BE REQUIRED UNLESS CLARIFIED BY PROJECT ENGINEER IN AN OFFICIAL ADDENDUM OR SUPPLEMENTAL

REQUESTS FOR INFORMATION: THE CONTRACTOR ACKNOWLEDGES ITS RESPONSIBILITY TO BE FAMILIAR WITH THE CONTRACT DOCUMENTS. REQUESTS FOR INFORMATION (RFI'S) WILL BE RESPONDED TO WITHIN FIVE WORKING DAYS OF RECEIPT. TIME SPENT REVIEWING RFI'S IN WHICH THE INFORMATION REQUESTED IS CLEARLY INCLUDED IN THE DRAWINGS OR SPECIFICATIONS WILL BE CHARGED TO THE CONTRACTOR AT ENGINEERING SYSTEM SOLUTIONS' STANDARD BILLING

EXISTING DUCTWORK LOCATIONS AND SIZES ARE SHOWN FOR REFERENCE AND ARE BASED ON PREVIOUS DRAWINGS AND SITE VISITS. VERIFY LOCATIONS AND

CONTRACTOR IS RESPONSIBLE TO REMOVE ALL HVAC EQUIPMENT, DUCTWORK, OR PIPING NECESSARY TO COMPLETE THEIR SCOPE OF WORK AND AS INDICATED ON

REMOVE AND DISPOSE OF ALL DUCT, SENSORS, CONTROL PANELS, THERMOSTATS, CONTROLLERS, CONDUIT TO THE POINT OF ORIGIN, AND WIRING TO THE POINT OF

INSTALLATION

PROVIDE SEISMIC RESTRAINTS FOR HVAC EQUIPMENT, DUCTWORK, AND PIPING. RESTRAINTS ARE TO COMPLY WITH SEISMIC DESIGN CRITERIA LISTED IN THE STRUCTURAL GENERAL NOTES AND IN ACCORDANCE WITH ASCE/SEI 7-10 AND BUILDING CODE. CONTRACTOR IS RESPONSIBLE TO PROVIDE INSTALLATION DETAILS THAT ARE STAMPED BY A PROFESSIONAL ENGINEER, LICENSED IN THE LOCAL JURISDICTION. DETAILS ARE TO ACCOUNT FOR SEISMIC, WIND, AND GRAVITY LOADING REQUIREMENTS. REFER TO STRUCTURAL GENERAL NOTES FOR SEISMIC DESIGN CATEGORY, SITE CLASS, RISK CATEGORY, SHORT PERIOD DESIGN SPECTRAL RESPONSE ACCELERATION COEFFICIENT (SDS), ONE SECOND PERIOD DESIGN SPECTRAL RESPONSE ACCELERATION COEFFICIENT (SD1), AND

PIPING, DUCTWORK, AND EQUIPMENT HANGERS CENTERED ON STEEL I-BEAMS (CONCENTRIC HANGERS) ARE PREFERRED OVER HANGERS SUPPORTED FROM A SINGLE SIDE OF THE BOTTOM I-BEAM FLANGE. IF USING HANGERS SUPPORTED FROM A SINGLE SIDE OF THE BOTTOM FLANGE, THE MAXIMUM WEIGHT LIMIT PER HANGER IS 200 POUNDS UNLESS DIRECTED OTHERWISE BY THE PROJECT STRUCTURAL ENGINEER.

CAULK AND SEAL ALL PENETRATIONS THROUGH CEILINGS. WALLS. AND FLOORS. PROVIDE ESCUTCHEON COVERS OR SHEET METAL FLANGES ON ALL VISIBLE PENETRATIONS.

ALL DETAILS INCLUDED IN DESIGN DRAWINGS MUST BE APPLIED TO ALL RELEVANT INSTALLATIONS REFERRED TO IN THE DETAIL. EACH DETAIL WILL NOT BE SPECIFICALLY REFERENCED ON THE DRAWINGS.

DUCTWORK AND PIPING MAY DIFFER IN DIMENSIONS THAN WHAT IS INDICATED ON DRAWINGS BASED ON EASIER PROCUREMENT, CONSISTENT SIZES, OR FIELD INSTALLATION CONDITIONS. PIPING MUST BE LARGER THAN WHAT IS INDICATED ON THE DRAWINGS AND THE CONTRACTOR MUST COORDINATE ROUTING OF LARGER PIPING WITH FIELD CONDITIONS. THE INSIDE FREE AREA FOR ALL DUCTWORK MUST MATCH OR EXCEED THE INSIDE FREE AREA OF THE DUCTWORK ON THE DRAWINGS AND EXHIBIT THE SAME OR BETTER PRESSURE LOSS CHARACTERISTICS. THE ASPECT RATIO OF MODIFIED DUCT MUST NOT EXCEED 3 TO 1 WITHOUT PRIOR ENGINEER APPROVAL. ROUTING FOR ALL MODIFIED DUCTWORK MUST BE COORDINATED WITH ALL FIELD CONDITIONS.

PROVIDE A MINIMUM OF THREE DUCT DIAMETERS OF STRAIGHT DUCT BEFORE EACH AIR DEVICE WHERE SPACE ALLOWS. AIR DEVICE PERFORMANCE DATA (PRESSURE, THROW, AND SOUND) AS SHOWN IN THE AIR DEVICE SCHEDULE IS BASED ON THREE DUCT DIAMETERS OF STRAIGHT DUCTWORK.

PROVIDE ACCESS PANELS, LOCKING QUADRANT HANDLE, OR REMOTE CEILING OPERATOR FOR ALL EQUIPMENT, DAMPERS, ACTUATORS, VALVES, FILTERS, SENSORS. AND CONTROLS LOCATED ABOVE INACCESSIBLE CEILINGS OR BEHIND WALLS. ENSURE ADEQUATE ACCESS TO ALL SYSTEM COMPONENTS FOR MAINTAINABILITY. ACCESS PANELS TO BE APPROVED BY ARCHITECT/ GENERAL CONTRACTOR AND MUST MATCH THE FINISH AND THE COLOR OF THE SURFACE IT IS BEING INSTALLED IN. PROVIDE DOUBLE WALL DUCT ACCESS DOORS FOR ALL MOTORIZED DAMPERS, FIRE/SMOKE DAMPERS, FIRE DAMPERS, FILTERS, DUCT COILS, TURNING VANES, DUCTWORK CONNECTIONS TO LOUVERS, AND OTHER DEVICES THAT REQUIRE ACCESS. ACCESS PANELS AND DUCT ACCESS DOORS TO BE MINIMUM 12" SQUARE FOR TWO HAND ACCESS AND MINIMUM 25"X14" FOR BODY ACCESS. COMPLY WITH MANUFACTURER RECOMMENDATIONS FOR REQUIRED ACCESS OPENING SIZE.

GENERAL REQUIREMENTS ALL MOTORS TO BE PREMIUM EFFICIENCY MOTORS. ALL MOTORS POWERED THROUGH A VFD TO CONFORM TO MG-1, PART 31 FOR INVERTER DUTY.

EQUIPMENT

PROVIDE ONE YEAR PARTS AND LABOR WARRANTY ON INSTALLATION.

PROVIDE SUBMITTALS ON ITEMS LISTED IN SCHEDULES TO ENGINEER FOR REVIEW PRIOR TO ORDER, PURCHASE, OR INSTALLATION. PROVIDE ALL HVAC CONSTRUCTION COSTS FOR ENGINEER DATA BASE AS PART OF SUBMITTALS.

ALL MANUFACTURER SUBSTITUTIONS MUST BE SUBMITTED THROUGH ARCHITECT AND APPROVED THROUGH AN ADDENDUM. PRIOR APPROVALS MUST BE SUBMITTED CLOSE ENDS OF DUCTWORK AND PIPING AND COVER FLOOR DRAINS DURING 10 DAYS PRIOR TO BID DATE.

PROVIDE OPERATIONS AND MAINTENANCE MANUAL INCLUDING ALL HVAC EQUIPMENT.

COORDINATE EXACT LOCATION OF THERMOSTATS/SENSORS WITH ARCHITECT PRIOR TO INSTALLATION. PROVIDE VENTILATED LOCKABLE COVERS FOR ALL THERMOSTATS AND SENSORS LOCATED IN PUBLIC ACCESSIBLE LOCATIONS. PROVIDE AND INSTALL CONTROL WIRING BETWEEN THERMOSTAT/SENSOR AND AIR DUCT DIMENSIONS SHOWN ARE CLEAR INSIDE DIMENSIONS. HANDLING EQUIPMENT. PROVIDE INSULATED BASE FOR ALL THERMOSTATS/SENSORS LOCATED ON AN EXTERIOR WALL.

MECHANICAL EQUIPMENT INSTALLED OUTDOORS TO BE LISTED AND LABELED FOR OUTDOOR INSTALLATION.

PROVIDE WATER LEVEL DETECTION DEVICE (WLDD) FOR ALL AIR CONDITIONING EQUIPMENT. DISABLE/SHUTDOWN CORRESPONDING EQUIPMENT UPON DETECTION OF THE FRAMING IS NOT LESS THAN 1.5". OF WATER/CONDENSATE. 1 - FOR EQUIPMENT THAT HAS SECONDARY DRAIN PAN, LOCATE WLDD IN

CONDENSATE OVERFLOW PIPING CONNECTION. 2 - FOR EQUIPMENT WITHOUT SECONDARY DRAIN PAN, PROVIDE VERTICAL STANDPIPE ON CONDENSATE PIPING THAT EXTENDS ABOVE BOTTOM OF DRAIN PAN TO JUST BELOW RIM LEVEL OF DRAIN PAN AND PROVIDE WLDD.

ALL FANS TO BE SELECTED WITH MEDIUM DRIVE LOSS.

CONTRACTOR IS RESPONSIBLE FOR FULLY FUNCTIONING AND COMPLETE MECHANICAL SYSTEMS INCLUDING ALL INSTALLATION REQUIREMENTS, SERVICE AND MAINTENANCE REQUIREMENTS, CONTROL AND OPERATION REQUIREMENTS,

CONTRACTOR TO MAKE AVAILBLE ALL MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR INSPECTOR REVIEW DURING CONSTRUCTION.

ELECTRICAL REQUIREMENTS

COORDINATE ALL ELECTRICAL AND CONTROL REQUIREMENTS WITH ELECTRICIAN.

PROVIDE STARTERS AND CONTACTORS NECESSARY TO OPERATE ALL MECHANICAL EQUIPMENT. COORDINATE ALL REQUIREMENTS WITH ELECTRICAL.

CONTRACTOR MUST COORDINATE ALL ELECTRICAL REQUIREMENTS FOR ALL EQUIPMENT WITH ELECTRICAL CONTRACTOR ONCE REVIEWED SUBMITTALS ARE

ALL MOTORIZED DAMPERS ARE TO BE 24V UNLESS NOTED OTHERWISE. CONTRACTOR TO COORDINATE CONTROL OF MOTORIZED DAMPERS WITH ASSOCIATED EQUIPMENT AND PROVIDE ALL CONTROL WIRING BETWEEN THE MOTORIZED DAMPER AND SERVING EQUIPMENT.

CONTRACTOR IS RESPONSIBLE FOR ALL LOW VOLTAGE WIRING CONDUIT. CONDUIT IS REQUIRED FOR ALL INACCESSIBLE LOCATIONS INCLUDING INSIDE WALLS, ABOVE HARD CEILINGS, AND IN FLOORS. REFER TO ELECTRICAL PLANS AND SPECIFICATIONS FOR ALL CONDUIT REQUIREMENTS. SOME LOW VOLTAGE CONDUIT MAY BE SPECIFIED IN ELECTRICAL DRAWINGS.

ALL AIR MOVING HVAC EQUIPMENT TO HAVE PRE-FILTER. ALL FILTERS TO BE

PROVIDE NEW FILTERS ON ALL FORCED AIR SYSTEMS AND NEW BELTS FOR ALL BELT DRIVEN EQUIPMENT WITHIN ONE WEEK PRIOR TO SUBSTANTIAL COMPLETION.

INSTALLATION

REFER TO PLUMBING DRAWINGS FOR CONDENSATE ROUTING AND REQUIREMENTS

ALL EQUIPMENT MOUNTED ON THE ROOF TO BE INSTALLED A MINIMUM OF 10' FROM THE EDGE OF THE ROOF.

PROVIDE VIBRATION ISOLATION FOR ALL FAN OR COMPRESSOR DRIVEN EQUIPMENT. ROUND FLEXIBLE DUCT TO BE THERMAFLEX PRO SERIES OR APPROVED EQUAL. PROVIDE FLEXIBLE CONNECTIONS TO EQUIPMENT.

ALL EQUIPMENT LOCATED ON ROOF TO BE SECURED TO A ROOF CURB OR MANUFACTURER AND ARCHITECTURAL REQUIREMENTS. MINIMUM CURB OR RAIL TO MEET UL 181 AND FASTENERS TO MEET UL181B. UNLISTED DUCT TAPE IS HEIGHT TO ENSURE 14" MINIMUM DISTANCE BETWEEN TOP OF ROOF AND BOTTOM PROHIBITED. OF EQUIPMENT (ROOF INSULATION ETC. THICKNESS TO BE ADDED TO 14" FOR CURB

REFRIGERATION

INSTALLATION

ONLY NON CFC REFRIGERANT MAY BE UTILIZED IN EQUIPMENT.

EQUIPMENT MANUFACTURER TO PROVIDE REFRIGERANT PIPING LAYOUT, SIZING, AND ALL REQUIRED COMPONENTS FOR ENGINEER REVIEW.

REFRIGERANT PIPING ON FLOOR PLANS IS SHOWN AS SINGLE LINE FOR CLARITY. INSTALL REFRIGERANT SUCTION, REFRIGERANT LIQUID, AND REFRIGERANT GAS PER MANUFACTURER RECOMMENDATIONS. ROUTE ALL PIPING IN CONCEALED LOCATIONS ABOVE CEILINGS AND WITHIN WALLS UNLESS NOTED OTHERWISE. RELEVANT FITTINGS.

OUTDOORS.

INSULATE REFRIGERANT PIPING PER MINIMUM MECHANICAL PIPING INSULATION THICKNESS TABLE. PROVIDE ALUMINUM JACKET ON ALL INSULATION LOCATED

SUPPORT ALL FLOOR, GROUND, OR ROOF SUPPORTED REFRIGERATION PIPING WITH UNISTRUT SUPPORTS. INSTALL DURA-BLOK ROOFTOP SUPPORT PADS OR EQUAL.

DUCTWORK

INSTALLATION INSTALL AND SUPPORT ALL DUCTWORK PER SMACNA AND INTERNATIONAL MECHANICAL CODE REQUIREMENTS.

COORDINATE ALL DIFFUSER AND GRILLE LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS AND ELECTRICAL DRAWINGS.

COORDINATE ALL STRUCTURAL PENETRATIONS FOR DUCT WORK WITH GENERAL CONTRACTOR AND STRUCTURAL ENGINEER. DUCT PENETRATIONS THROUGH ROOF ARE TO BE COORDINATED WITH JOIST LAYOUT.

CONSTRUCTION. CLEAN ALL EQUIPMENT, PIPING, AND DUCTWORK AT COMPLETION

CONSTRUCT ALL DUCT TEES, BENDS, AND ELBOWS WITH RADIUS NOT LESS THAN 1.5 TIMES THE WIDTH OF THE DUCT. WHERE PHYSICAL CONSTRAINTS PROHIBIT RADIUSED ELBOWS, PROVIDE RECTANGULAR ELBOW WITH TURNING VANES. ALL BRANCH TAKEOFFS TO BE CONSTRUCTED OF 90° WYE WITH 45° ENTRY.

PAINT DUCT INTERIORS VISIBLE THROUGH REGISTERS, GRILLES, DIFFUSERS, AND LOUVERS FLAT BLACK.

CONCEALED VENTS, DUCTS, AND ALL PIPING INSTALLED THROUGH FRAMING MEMBERS MUST BE PROTECTED FROM FASTENER PENETRATION BY A STEEL SHIELD PLATE (MINIMUM THICKNESS OF 1/16") UNLESS THE DISTANCE FROM THE FACE EDGE

PROVIDE MINIMUM 2.5 WHEEL DIAMETERS OF STRAIGHT DUCT BEFORE OFFSETS OR BENDS FOR ALL INLET AND OUTLET DUCTWORK FOR FANS.

ALL AIR DEVICE RUNOUTS TO MATCH NECK SIZE UNLESS NOTED OTHERWISE.

COMPLY WITH SMACNA REQUIREMENTS FOR ALL DUCT SUPPORT SIZING, SPACING, AND MATERIAL. ALL HANGERS IN CORROSIVE ENVIRONMENTS TO BE ELECTROGALVANIZED ALL-THREAD RODS.

PROVIDE EXPANSION JOINTS FOR ALL DUCT WORK PER SMACNA AND MECHANICAL CODE REQUIREMENTS BASED ON FINAL FIELD ROUTING.

INSTALL EXPANSION JOINTS IN ALL DUCTWORK CROSSING A BUILDING EXPANSION JOINT. EXPANSION JOINTS MUST MEET THE REQUIREMENTS FOR EXPANSION AS DESCRIBED IN THE STRUCTURAL DRAWINGS.

ALL ROUND EXPOSED DUCTWORK TO BE SPIRAL DUCT SUPPORTED WITH STEEL CABLE AND SADDLE SUPPORTS. CREATE SMOOTH AND UNIFORM EXPOSED SEALANT BEADS FOR CLEAN APPEARANCE.

SUPPORT ALL OUTDOOR DUCTWORK WITH UNISTRUT SUPPORT STANDS AND DURA-BLOK ROOFTOP SUPPORT PADS OR EQUAL. SLOPE TOP OF OUTDOOR DUCTS TO PREVENT MOISTURE ACCUMULATION.

SEAL CLASS B.

ALL DUCT TO BE CONSTRUCTED OF GALVANIZED METAL UNLESS NOTED OTHERWISE. ALL ROUND EXPOSED DUCT TO BE SPIRAL DUCT. CONSTRUCT ALL DUCT TO THE FOLLOWING SMACNA STANDARDS: 1. EXHAUST DUCT - 1" W.G. PRESSURE CLASS AND SEAL CLASS B. 2. LOW PRESSURE SUPPLY DUCT AND RETURN DUCT - 2" W.G. PRESSURE CLASS AND

ALL DUCTS ABOVE RATED CEILINGS TO BE MINIMUM 24-GAUGE SHEET METAL.

ALL DUCTWORK, HANGERS, ACCESSORIES, AND AIR DEVICES LOCATED IN AN INDOOR

POOL ROOM, POOL EQUIPMENT ROOM, AND ADJACENT SPACES TO BE ALUMINUM OR

STAINLESS STEEL.

INSULATION AND LINER LINE ALL LOW PRESSURE RECTANGULAR SUPPLY AND RETURN DUCT A MINIMUM OF 20 FEET FROM ALL AIR HANDLING EQUIPMENT. LINE ALL RETURN TRANSFERS AND GRILLE PLENUM BOXES. DUCT LINER TO BE KNAUF ATMOSPHERE DUCT LINER OR EQUAL AND MINIMUM R-4.2 (1"). TRIM AND SEAL ALL JOINTS AND INSTALL PER MANUFACTURER REQUIREMENTS.

INSTALL ALL EQUIPMENT AND DEVICES PER MANUFACTURER'S RECOMMENDATIONS. DUCT WRAP TO BE KNAUF ATMOSPHERE OR EQUAL WITH VAPOR BARRIER FOR ALL SUPPLY AND OUTSIDE AIR DUCT. INSULATE ALL CONCEALED UNLINED SUPPLY DUCT LOCATED IN CONDITIONED SPACE WITH MINIMUM R-4.5 (1-1/2" AT 25% COMPRESSION). INSULATE ALL SUPPLY AND RETURN DUCT, INCLUDING LINED DUCT, LOCATED IN UNCONDITIONED SPACE AND OUTDOORS WITH MINIMUM R-12 (4" AT 25% COMPRESSION). ALL DUCT LOCATED OUTDOORS TO BE DOUBLE WALL WITH SLOPED TOP AND ANNULAR INSULATION. INSULATE ALL OUTSIDE AIR DUCT WITH MINIMUM R-6 (2" AT 25% COMPRESSION).

FLEXIBLE SUPPLY DUCT IN CONDITIONED SPACE TO BE MINIMUM R-4.2. FLEXIBLE DUCT RUNS TO BE MAXIMUM 5 FEET IN LENGTH AND FREE OF KINKS AND TIGHT BENDS AND IS NOT TO BE USED IN LIEU OF RIGID ELBOWS OR FITTINGS EXCEPT IT EQUIPMENT RAIL. ROOF CURB OR EQUIPMENT RAIL TO BE INSTALLED PER ROOFING MAY BE PERMITTED FOR USE AS AN ELBOW AT A TERMINAL DEVICE. FLEXIBLE DUCT

> CONDITIONED SPACES INCLUDE ALL SPACES THAT ARE DIRECTLY HEATED OR COOLED WITHIN THE BUILDING THERMAL ENVELOPE. CONDITIONED SPACES ALSO INCLUDE AREAS THAT ARE INDIRECTLY HEATED OR COOLED WITHIN THE BUILDING THERMAL ENVELOPE WHERE THEY ARE SEPARATED FROM CONDITIONED SPACES BY UNINSULATED WALLS, FLOORS, OR CEILINGS. THESE SPACES INCLUDE AREAS ABOVE CEILINGS THAT ARE WITHIN THE BUILDING THERMAL ENVELOPE.

RATED ASSEMBLIES

PROVIDE FIRE, FIRE/SMOKE, SMOKE, AND CEILING RADIATION DAMPERS WHERE REQUIRED. INSTALL DAMPERS PER UL 555, UL 555S, AND UL 555C AND MANUFACTURER'S RECOMMENDATIONS. PROVIDE FIRE SAFING ON ALL PENETRATIONS THROUGH FIRE RATED SEPARATIONS WITH UL RATED FIRE SAFING MATERIAL. REFER TO ARCHITECTURAL DRAWINGS FOR RATED ASSEMBLY LOCATIONS AND DESCRIPTIONS.

PIPING TO MEET MANUFACTURER MAXIMUM LENGTH REQUIREMENTS INCLUDING ALL ALL RATED PENETRATIONS TO BE FIRE RATED PER 3M FIRE PROTECTION GUIDELINES OR APPROVED EQUAL. VISIT 3M'S WEBSITE AT 3M.COM/FIRESTOP FOR APPLICABLE INFORMATION ON FIRESTOPPING. REFER TO THE 3M FIRE PROTECTION PRODUCTS SPECIFIERS AND APPLICATORS GUIDE FOR FIRE RATED PENETRATION PROTECTION REQUIREMENTS AND DETAILS AT

https://multimedia.3m.com/mws/media/1302803O/3m-fire-protection-products-specifiers-guide.pdf

TEST AND BALANCE

PROVIDE BALANCE VALVES AND DAMPERS TO ALLOW COMPLETE BALANCE OF HVAC SYSTEMS (OPPOSED BLADE DAMPERS, OBD'S, THAT ARE INTEGRAL TO AIR DEVICES ARE NOT CONSIDERED BALANCE DAMPERS UNLESS NOTED OTHERWISE).

PROVIDE REMOTE CABLE OPERATED MANUAL BALANCE DAMPER FOR ALL AIR DEVICES THAT ARE NOT LOCATED IN AN ACT (ACOUSTICAL CEILING TILE) CEILING TYPE. CABLE TO BE CONTINUOUS FROM DAMPER TO THE FACE OF AIR DEVICE AND EASILY ACCESSIBLE AND INSTALLED PER MANUFACTURERS INSTALLATION INSTRUCTIONS. THE BASIS OF DESIGN IS THE 240 REMOTE CABLE CONTROL SYSTEM BY YOUNG REGULATOR. AN ALTERNATE SYSTEM IS THE 301 CONCEALED DAMPER REGULATOR WITH YOUNG REGULATOR BOWDEN CABLE CONTROL KIT, RIGHT ANGLES AND CONTROL DAMPERS. THE 301 REGULATOR IS TO BE EMBEDDED IN THE CEILING FLUSH WITH THE FINISHED SURFACE. ALL INSTALLED PARTS TO BE COMPATIBLE BASED ON MANUFACTURERS RECOMMENDATION AND INSTALLATION INSTRUCTIONS.

BALANCE ALL HVAC EQUIPMENT AND AIR DEVICES PER PLAN BY AN APPROVED INDEPENDENT TEST AND BALANCE CONTRACTOR. BALANCE REPORT TO BE GIVEN TO ENGINEER, OWNER, AND O&M MANUAL.

	STANDARD ABBREVIATIONS		MECHANICA	L LEGEND	
` '	EXISTING NEW		BALL VALVE		SUPPLY DIFFUSER
()	ABOVE FINISHED FLOOR		BUTTERFLY VALVE		RETURN GRILLE
	ANALOG INPUT	Ψ			
	ALTERNATE ANALOG INPUT		GATE VALVE		EXHAUST GRILLE
-	AIR PRESSURE DROP		GLOBE VALVE		RETURN AIR DUCT SECTION
	BOTTOM OF DUCT	M	MOTORIZED VALVE OPERATOR		RETURN AIR DUCT TURNED UP
	BOTTOM OF PIPE	IVI _			
	BRITISH THERMAL UNITS PER HOUR CAPACITY		CHECK VALVE (SWING OR LIFT AS REQ'D)		RETURN AIR DUCT DOWN
	CUBIC FEET PER MINUTE		SOLENOID VALVE		SUPPLY AIR DUCT SECTION
	CONSTANT VOLUME		AUTOMATIC CONTROL VALVE (2-WAY)		SUPPLY AIR DUCT TURNED UP
	DRY BULB DIGITAL INPUT	7	,		
	DIAMETER		AUTOMATIC CONTROL VALVE (3-WAY)		SUPPLY AIR DUCT DOWN
	DIGITAL OUTPUT		PRESSURE REDUCING VALVE		EXHAUST AIR DUCT SECTION
	EXHAUST AIR ENTERING AIR TEMPERATURE		P&TRELIEF VALVE		EXHAUST AIR DUCT TURNED UP
	EFFICIENCY	7	DET COOK OF CALLOE COOK		EVITATION AID DUOT DOMAI
	ELEVATION	Ψ	PET COCK OR GAUGE COCK		EXHAUST AIR DUCT DOWN
	EXTERNAL STATIC PRESSURE		AUTOMATIC FLOW CONTROL VALVE		ACCESS PANEL
	ENTERING WATER TEMPERATURE FREE AREA		WATER HAMMER ARRESTOR		MANUAL VOLUME DAMPER
	FEET PER MINUTE	P	AIR VENT (AUTOMATIC)	G	ODAN/ITY DAOMODDAET DAMPED
	FEET		7 III VERVI (NOTOMINTIO)	M	GRAVITY BACKDRAFT DAMPER
	FACE VELOCITY FRESH WATER		STRAINER		MOTORIZED DAMPER
	GAUGE		VENTURI FLOW METER	FD FD	FIRE DAMPER
	GALLON			,	
	GALLONS PER MINUTE HORSEPOWER	F	TEMPERATURE & PRESSURE TEST PLUG	FSD	COMBINATION FIRE/SMOKE DAMPER
	HOUR	<u>`</u>	FLOW SWITCH	18/12	DUCT SIZE (FIRST FIGURE IS SIZE SH
HT	HEIGHT	T	TEMPERATURE SENSOR	<u> </u>	BURIED OR UNDERFLOOR DUCT
	INDOOR AIR QUALITY	\bigcirc	PRESSURE GAUGE W/GAUGE COCK		DUCT W/ ACOUSTICAL LINING
	INCH INCHES OF WATER COLUMN	#			DUCT W/ ACOUSTICAL LINING
-	INCHES OF WATER GAUGE	<u> </u>	THERMOMETER	HHHHHHHHH	FLEXIBLE DUCT (HELICAL)
	LEAVING AIR TEMPERATURE		PUMP	<u> </u>	FLEXIBLE DUCT CONNECTION
	POUNDS LEAVING WATER TEMPERATURE		FLEGUADOMA		DUOT TRANSITION
	MAXIMUM		ELBOW DOWN		DUCT TRANSITION
	THOUSAND BRITISH THERMAL		ELBOW UP		ELBOW W/ TURNING VANES
	UNITS/HOUR MECHANICAL		TEE DOWN		TEE W/45 DEGREE ENTRY
	MINIMUM			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	MANE MILAG DEODEE ENTRY
	MANUAL VOLUME DAMPER	+	HOSE BIB OR SILLCOCK		WYE W/ 45 DEGREE ENTRY
	NOISE CRITERIA]	PIPE CAP	T	THERMOSTAT OR TEMP SENSOR
	NOT IN CONTRACT NUMBER		REDUCER VALVE	(H)	HUMIDISTAT OR HUMIDITY SENSOR
	NOMINAL		LINUON		POINT OF DEMOVAL FROM EVICTING
	NOT TO SCALE		UNION		POINT OF REMOVAL FROM EXISTING
	OPPOSED BLADE DAMPER OUTSIDE AIR		YARD HYDRANT/ROOF HYDRANT		POINT OF CONNECTION TO EXISTING
	PRESSURE DROP		FLOOR DRAIN	M##)	KEYED NOTE
	POUNDS PER SQUARE INCH		FLOOR SINK	(#/###)	AIR DEVICE TAG
	POUNDS PER SQUARE INCH GAUGE RETURN AIR		FLOOR SINK	(#/###)	MARK/CFM
	SUPPLY AIR	 	CLEANOUT TO GRADE (CTG)		
	SENSIBLE		FLOOR CLEANOUT (FCO)	SEC#	SECTION CUT LINE
	SEA LEVEL		WALL CLEANOUT (MCO)	SHEET#	
	STATIC PRESSURE SQUARE FEET	GII	WALL CLEANOUT (WCO)	DET#	
,	SERVICE SINK OR STAINLESS STEEL		EXPANSION JOINT	├	DETAIL TAG
TOD	TOP OF DUCT		FLEXIBLE PIPE CONNECTION	SHT#	
	TOTAL STATIC PRESSURE		DEDUCED DESCRIPE DACKELOW DDEVENTED		
	UNLESS NOTED OTHERWISE VARIABLE AIR VOLUME	RPBP——	REDUCED PRESSURE BACKFLOW PREVENTER	CHS——	CHILLED WATER SUPPLY
VFD	VARIABLE FREQUENCY DRIVE		DOUBLE CHECK BACKFLOW PREVENTER	CHR	CHILLED WATER RETURN
	VOLUME	— – —	DOMESTIC COLD WATER (DCW)	CD	CONDENSATE DRAIN
	WITH WITHOUT		DOMESTIC HOT WATER (DHW)		
	WET BULB			——cws——	CONDENSER WATER SUPPLY
	WATER PRESSURE DROP		DOMESTIC HOT WATER RECIRC. (DHWR)	CWR——	CONDENSER WATER RETURN
WT	WEIGHT	——(TEMP)°F——	DOMESTIC HOT WATER (SPECIFIED TEMP.)	FS	FIRE SPRINKLER SERVICE
			SANITARY VENT (VT)		
			, ,	HWS	HEATING WATER SUPPLY
			SANITARY SEWER ABOVE GRADE (SS)	HWR——	HEATING WATER RETURN
			SANITARY SEWER BELOW GRADE (SS)	LP	LIQUID PROPANE
		//////	HEAT TRACING	NG	NATURAL GAS
		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			
		*	PIPING BELOW GRADE (**SYS. ABR.)	OD-	OVERFLOW ROOF DRAIN
				RD	ROOF DRAIN
				RL	REFRIGERANT LIQUID
				RS	REFRIGERANT SUCTION
				s	STEAM
				SD	STORM DRAIN
		i	S MAY BE USED	_ JD	O LOUMI DIVAIN

	SHEET INDEX					
SHEET NO.	SHEET TITLE	REVISION				
M0.00	GENERAL NOTES, SHEET INDEX, LEGEND					
M0.10	ENERGY CODE COMPLIANCE					
MD1.10	MECHANICAL DEMOLITION FLOOR PLAN - MAIN BUILDING					
MD1.12	MECHANICAL DEMOLITION FLOOR PLAN - SHELL					
MD1.20	MECHANICAL DEMOLITION ROOF PLAN - MAIN BUILDING					
MD1.21	MECHANICAL DEMOLITION ROOF PLAN - SHELL					
M1.10	MECHANICAL FLOOR PLAN - MAIN BUILDING					
M1.11	MECHANICAL FLOOR PLAN - MAIN BUILDING VRF PIPING					
M1.12	MECHANICAL FLOOR PLAN - SHELL					
M1.20	MECHANICAL ROOF PLAN - MAIN BUILDING					
M1.21	MECHANICAL ROOF PLAN - SHELL					
M1.30	MECHANICAL FLOOR PLAN - ROLLING ASSETS BUILDING (ADD ALTERNATE #1)					
M2.00	CONTROLS SCHEMATICS					
M2.10	VRF SCHEMATICS					
M3.00	MECHANICAL SECTIONS					
M4.10	MECHANICAL ENLARGED FLOOR PLANS					
M5.11	MECHANICAL DETAILS					
M5.10	MECHANICAL DETAILS					
M6.10	MECHANICAL SCHEDULES					

M6.11 MECHANICAL SCHEDULES

TOTAL NO. OF SHEETS: 20



PROJECT NO. DATE: AUGUST 2024 DRAWN BY: CHECKED BY: DRAWING NO.:

Ш

5

22

 \mathbb{A}

REVISIONS

THIS DRAWING AND THE DATA SHOWN THEREON. SAID DRAWING AND/OR DATA ARE THE EXCLUSIVE PROPERTY OF IMEG AND SHALL NOT BE USED OR REPRODUCED FOR ANY OTHER PROJECT WITHOUT TH EXPRESS WRITTEN APPROVAL AND PARTICIPATION OF IMEG. PROJECT #24.3008 C23

n .ID	Footing / Foundation Inspection	Complies?	Comments/Assumptions			
	Snow/ice melting system and freeze protection systems have sensors and controls configured to limit service for pavement temperature above 50F and outdoor temperature above 40F.	□Complies □Does Not □Not Observable □Not Applicable				
ona	nal Comments/Assumptions:					

Quantity System Type & Description

ducted 48 (Single Zone):

1 Cassette 07 (Single Zone):

Cooling: 2 each - VRF Zone Fan Unit (duct 36), Capacity = 36 kBtu/h, No Economizer, Economizer exception: VRF

Fan Supply, Constant Volume, 1130 CFM, 0.5 motor nameplate hp, 0.00 fan energy index , fan exception: Single fan < 1 HP or < 0.89 kW

Cooling: 2 each - VRF Zone Fan Unit (duct 48), Capacity = 48 kBtu/h, No Economizer, Economizer exception: VRF systems installed with a DOAS

No minimum efficiency requirement applies

Fan System: 1305 -- Compliance (Motor nameplate HP and fan efficiency method): Passes

Fans:
Fan Supply, Constant Volume, 300 CFM, 0.5 motor nameplate hp, 0.00 fan energy index , fan exception: Single fan
< 1 HP or < 0.89 kW

Cooling: 2 each - VRF Zone Fan Unit (cassette 07), Capacity = 7 kBtu/h, No Economizer, Economizer exception: VRF systems installed with a DOAS No minimum efficiency requirement applies

Fan System: 305 CFM -- Compliance (Motor nameplate HP and fan efficiency method) : Fails: Fan : FAILS: Fan energy index must be 1.00 or higher

Fan Supply, Constant Volume, 305 CFM, 0.1 motor nameplate hp, 0.00 fan energy index , fan exception: Single fan

Cooling: 2 each - VRF Zone Fan Unit (cassette 12), Capacity = 12 kBtu/h, No Economizer, Economizer exception: VRF systems installed with a DOAS
No minimum efficiency requirement applies
Fan System: 350 -- Compliance (Motor nameplate HP and fan efficiency method): Passes

Fans:
Fan Supply, Constant Volume, 350 CFM, 0.5 motor nameplate hp, 0.00 fan energy index , fan exception: Single fan < 1 HP or < 0.89 kW

. Fan Supply, Constant Volume, 510 CFM, 0.5 motor nameplate hp, 0.00 fan energy index , fan exception: Single fan < 1 HP or < 0.89 kW

1 Cassette 18 (Single Zone): Cooling: 1 each - VRF Zone Fan Unit (cassette 18), Capacity = 18 kBtu/h, No Economizer, Economizer exception: VRF systems installed with a DOAS No minimum efficiency requirement applies Fan System: 510 -- Compliance (Motor nameplate HP and fan efficiency method): Passes

Gas Storage Water Heater, Capacity: 60 gallons, Input Rating: 199 kBtu/h w/ Circulation Pump Proposed Efficiency: 95.00 % Et, Required Efficiency: 80.00 % Et

Signature

Electric Storage Water Heater, Capacity: 36 gallons No minimum efficiency requirement applies

Project Title: IDAHO STATE POLICE DISTRICT #6

Project Title: IDAHO STATE POLICE DISTRICT #6

Data filename:

1 Cassette 05 (Single Zone): Cooling: 3 each - VRF Zone Fan Unit (cassette 05), Capacity = 5 kBtu/h, No Economizer, Economizer exception: VRF systems installed with a DOAS No minimum efficiency requirement applies Fan System: 300 -- Compliance (Motor nameplate HP and fan efficiency method): Passes

systems installed with a DOAS
No minimum efficiency requirement applies
Fan System: 1130 -- Compliance (Motor nameplate HP and fan efficiency method) : Passes

Section # Mechanical Rough-In Inspection Complies?

C403.7.1 Demand control ventilation provided for spaces >500 ft2 and >15 Deomand control ventilation provided for spaces >500 ft2 and >15 Deomand control for spaces >500 ft2 and >15 Deomand control

C403.7.2 [ME115]³ Enclosed parking garage ventilation has automatic contaminant detection and capacity to stage or modulate fans to 50% or less of design capacity.

| Not Observable | Not Applicable |

C403.7.4

Exhaust air energy recovery on Systems meeting Table C403.7.4(1) Does Not and C403.7.4(2).

C403.7.5 Kitchen exhaust systems comply with [ME116]³ replacement air and conditioned supply air limitations, and satisfy hood rating requirements and maximum exhaust rate criteria.

C403.5.1 Air economizers provided where required, meet the requirements for design capacity, control signal, ventilation controls, high-limit shut-off, integrated economizer control, and provide a means to relieve excess outside air during operation.

C403.5.3 Air economizers automatically reduce. □ Complies

C403.5.3. Air economizers automatically reduce
outdoor air intake to the design
minimum outdoor air quantity when
outdoor air intake will not reduce
cooling energy usage. See Table
C403.5.3.3 for applicable device types

and cimate zones.

C403.5.3. System capable of relieving excess
4 outdoor air during air economizer
operation to prevent over pressurizing
the building. The relief air outlet
located to avoid recirculation into the
building.

C403.5.3. deturn, exhaust/relief and outdoor air dampers used in economizers have motorized dampers that automatically shut when not in use and meet maximum leakage rates. Reference section C403.7.7 for details.

and climate zones.

Project Title: IDAHO STATE POLICE DISTRICT #6

C404.2.1 Gas-fired water-heating equipment installed in new buildings: where a singular piece of water-heating equipment >= 1,000 kBtu/h serves the entire building, thermal efficiency >= 92 Et. Where multiple pieces of water heating equipment >= 1,000 kBtu/h serves the entire building, thermal efficiency >= 92 Et. Where multiple pieces of water heating equipment >= 1,000 kBtu/h serves heating equipment >= 1,000 kBtu/h serves | Not Observable |

water-heating equipment serve the building with combined rating >= 1,000 kBtu/h, the combined input-capacity-weighted-average thermal efficiency >= 90 Et. Exclude input

rating of equipment in individual dwelling units and equipment <= 100 kBtu/h.

C408.2.2. Air outlets and zone terminal devices | Complies have means for air balancing. | Does Not

C403.11.3 Refrigerated display cases, walk-in Complies

Additional Comments/Assumptions:

Project Title: IDAHO STATE POLICE DISTRICT #6

C403.11.3 Retrigerated display cases, walk-in coolers or walk-in freezers served by remote compressors and remote condensers not located in a C403.11.3 condensing unit, have fan-powered condensers that comply with Sections (ME123)³ C403.11.3.1 and refrigeration compressor systems that comply with C403.11.3.2.

|2 | Low-voltage dry-type distribution electric transformers meet the minimum efficiency requirements of Table C405.6. | Complies | Does Not | Not Observable | Not Applicable |

C405.8

Electric motors meet the minimum efficiency requirements of Tables C405.7(1) through C405.7(4). Efficiency verified through certification under an approved certification program or the equipment efficiency ratings shall be provided by motor manufacturer (where certification program do not exist).

C405.9.1. Escalators and moving walks comply with ASME A17.1/C5A B44 and have automatic controls configured to reduce speed to the minimum permitted speed in accordance with ASME A17.1/C5A B44 or applicable local code when not conveying passengers.

| C405.1.1 | At least 90% of dwelling unit | C405.1.1 | permanently installed lighting shall have lamp efficacy >= 65 Im/W or luminaires with efficacy >= 45 Im/W or comply with C405.2.4 or C405.3. | Not Observable | Not Applicable | C405.1.5 | C405.1.5

C405.11, 50% of 15/20 amp receptacles installed in enclosed offices, conference rooms, copy rooms, break rooms, classrooms and workstations and > 25% of branch circuit feeders for modular furniture will have automatic receptacle control in accordance with C405.11.1.

Additional Comments/Assumptions:

Data filename:

guestrooms: Each guestroom is provided with controls that

■Not Observable

□Not Applicable

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

□Not Applicable

☐Not Observable

□Not Observable

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

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

Report date: 10/08/24

Page 11 of 14

Page 12 of 14

Data filename:

automatically manage temperature

Comments/Assumptions

Report date: 10/08/24

Comments/Assumptions

Final Inspection

C303.3, C408.2.5. Furnished O&M manuals for HVAC Systems within 90 days of system Does Not

capacity does not exceed calculated Does Not

C403.4.1
[Fl47]³ Heating and cooling to each zone is controlled by a thermostat control.
Minimum one humidity control device per installed humidification/dehumidification

Not Applicable

controls using automatic time clock or Does Not programmable control system.

C403.4.2. Automatic Controls: Setback to 55°F | Complies | C403.4.2. hour occupant override, 10-hour | Ccupant override, 10-hour | Chaples | Chapl

C404.4 All piping insulated in accordance with Complies section details and Table C403.12.3. Does Not

C404.6.1 Controls are installed that limit the operation of a recirculation pump installed to maintain temperature of a storage tank. System return pipe is a dedicated return pipe or a cold water

Final Inspection

| 1.1 Building operations and maintenance | documents will be provided to the owner. Documents will cover manufacturers' information, specifications, programming procedures and means of illustrating to owner how building, equipment and systems are intended to be installed, maintained, and operated.

completed and certified by registered design professional or approved agency.

Project Title: IDAHO STATE POLICE DISTRICT #6

C408.2.1 [FI28]¹ Commissioning plan developed by registered design professional or approved agency.

C408.2.3. HVAC equipment, systems and system-to-system relationships have

[FI31]¹ been tested to ensure proper operation.

C408.2.3. HVAC and service water heating

C408.2.5 Furnished HVAC as-built drawings submitted within 90 days of system acceptance.

C408.2.5. Final commissioning report due to 2 building owner within 90 days of receipt of certificate of occupancy.

Additional Comments/Assumptions:

Project Title: IDAHO STATE POLICE DISTRICT #6

System.

C403.4.1. Heat pump controls prevent supplemental electric resistance heat from coming on when not needed.

C403.4.1. Thermostatic controls have a 5 °F

C403.4.1. Temperature controls have setpoint overlap restrictions.

C403.4.2. Systems include optimum start

Complies?

☐Not Applicable

□Not Applicable

□Not Observable

□Does Not

□Complies □Does Not

■Not Observable

□Not Applicable

□Not Observable

■Not Observable

□Not Applicable

Complies?

□Not Observable

□Complies □Does Not

□Not Applicable

☐Not Observable

☐Not Applicable

□Not Observable

□Not Observable

□Not Applicable

☐Not Observable

□Complies □Does Not

☐Not Applicable

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

□Does Not

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

Not Applicable

□Not Observable

□Not Applicable

& Req.ID		·	•
,	Snow/ice melting system and freeze protection systems have sensors and controls configured to limit service for pavement temperature above 50F and outdoor temperature above 40F.	□Complies □Does Not □Not Observable □Not Applicable	
Additiona	al Comments/Assumptions:		

1 | High Impact (Tier 1) | 2 | Medium Impact (Tier 2) | 3 | Low Impact (Tier 3) Project Title: IDAHO STATE POLICE DISTRICT #6

Section # & Req.ID	Plumbing Rough-In Inspection	Complies?	Comments/Assumptions
C404.5, C404.5.1, C404.5.2 [PL6] ³	Heated water supply piping conforms to pipe length and volume requirements. Refer to section details.	□Complies □Does Not □Not Observable □Not Applicable	
C404.6.1, C404.6.2 [PL3] ¹	Automatic time switches installed to automatically switch off the recirculating hot-water system or heat trace.	□Complies □Does Not □Not Observable □Not Applicable	
C404.6.3 [PL7] ³	Pumps that circulate water between a heater and storage tank have controls that limit operation from startup to <= 5 minutes after end of heating cycle.	□Complies □Does Not □Not Observable □Not Applicable	
C404.6.1, C404.6.1. 1 [PL8] ³		□Complies □Does Not □Not Observable □Not Applicable	

Mechanical Compliance Statement Compliance Statement: The proposed mechanical design represented in this document is consistent with the building plans specifications, and other calculations submitted with this permit application. The proposed mechanical systems have beer designed to meet the 2021 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the inspection Checklist. Name - Title

Report date: 10/08/24

Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions	Section # & Req.ID	Plumbing Rough-In Inspection	Complies?	Comments/Assumptions
3.2 [ME121] ³	Closed-circuit cooling tower within heat pump loop have either automatic bypass valve or lower leakage positive closure dampers. Open-circuit tower within heat pump loop have automatic valve to bypass all heat pump water	□Not Observable		C404.5, C404.5.1, C404.5.2 [PL6] ³	Heated water supply piping conforms to pipe length and volume requirements. Refer to section details.	Complies Does Not Not Observable Not Applicable	
	flow around the tower. Open- or closed-circuit cooling towers used in conjunction with a separate heat exchanger have heat loss by shutting down the circulation pump on the				Automatic time switches installed to automatically switch off the recirculating hot-water system or heat trace.	□Complies □Does Not □Not Observable □Not Applicable	
	cooling tower loop. Open- or closed circuit cooling towers have a separate heat exchanger to isolate the cooling tower from the heat pump loop, and heat loss is controlled by shutting			C404.6.3 [PL7] ³	Pumps that circulate water between a heater and storage tank have controls that limit operation from startup to <= 5 minutes after end of heating cycle.		
	with integral heating include automatic controls that shut off the heating system when outdoor air temperatures > 45F. Vestibule	□Complies □Does Not □Not Observable □Not Applicable			Demand recirculation water systems have controls that start the pump upon receiving a signal from the action of a user of a fixture or appliance and limits the temperature of the water entering the cold-water piping to 104 °F.	□Complies □Does Not □Not Observable □Not Applicable	
	heating and cooling systems controlled by a thermostat in the vestibule with heating setpoint <= 60F and cooling setpoint >= 80F.			Addition	al Comments/Assumptions:		
C403.3.3 [ME35] ¹	Hot gas bypass limited to: <=240 kBtu/h - 50% >240 kBtu/h - 25%	□Complies □Does Not					
		□ Not Observable					

Project Title: IDAHO STATE POLICE DISTRICT #6

Data filename:

C404.6.1, C404.6.2 [PL3] ¹	Automatic time switches installed to automatically switch off the recirculating hot-water system or heat trace.	□Complies □Does Not □Not Observable □Not Applicable	
C404.6.3 [PL7] ³	Pumps that circulate water between a heater and storage tank have controls that limit operation from startup to <= 5 minutes after end of heating cycle.	□Complies □Does Not □Not Observable □Not Applicable	
C404.6.1, C404.6.1. 1 [PL8] ³		□Complies □Does Not □Not Observable □Not Applicable	
Addition	al Comments/Assumptions:		

Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C402.2.6 [ME41] ³	Thermally ineffective panel surfaces of sensible heating panels have	□Complies □Does Not	
	insulation >= R-3.5.	□Not Observable □Not Applicable	
C403.8.1	HVAC fan systems at design	Complies	See the Mechanical Systems list for values.
[ME65] ³	conditions do not exceed allowable fan system motor nameplate hp or fan	□Does Not	, , , , , , , , , , , , , , , , , , , ,
	system bhp.	□Not Observable □Not Applicable	
C403.8.3	Fans have a fan energy index (FEI) >=		
[ME117] ²	1.00. Variable volume fans will have an FEI >= 0.95.	□Does Not	
	an rei > = 0.33.	□Not Observable	
C403.8.3	Fans have a fan energy index (FEI) >=	□Not Applicable □Complies	
[ME117] ²	1.00. Variable volume fans will have	Does Not	
	an FEI >= 0.95.	□Not Observable	
		□Not Applicable	
C403.8.3 [ME117] ²	Fans have a fan energy index (FEI) >= 1.00. Variable volume fans will have	☐Complies ☐Does Not	
		□Not Observable	
		□Not Applicable	
C403.8.3 [ME117] ²	Fans have a fan energy index (FEI) >= 1.00. Variable volume fans will have an FEI >= 0.95.	□Does Not	
	diffEFF = 0.55.	☐Not Observable ☐Not Applicable	
C403.8.4	Motors for fans that are not less than	Complies	
[ME142] ²	1/12 hp and less than 1 hp are electronically commutated motors or	□Does Not	
	have a minimum motor efficiency of 70 percent. These motors have the means to adjust motor speed.	□Not Observable □Not Applicable	
C403.8.6	Each DX cooling system > 65 kBtu	☐Complies	
[ME143] ²	and chiller water/evaporative cooling system with fans > 1/4 hp are	□Does Not	
	designed to vary the indoor fan airflow	□Not Observable	
	as a function of load and comply with detailed requirements of this section.	□Not Applicable	
C403.9 [ME144] ²	Large diameter fans where installed shall be tested and labeled in	□Complies □Does Not	
[INCL 11]	accordance with AMCA 230.	□Not Observable	
		□Not Applicable	
C403.3 [ME55] ²	HVAC equipment efficiency verified.	□Complies □Does Not	See the Mechanical Systems list for values.
		□Not Observable □Not Applicable	
C403.5.5	Fault detection and diagnostics	Complies	
[ME113] ²	installed with air-cooled unitary DX	□Does Not	
	units or VRF units having economizers.	□Not Observable	
		□Not Applicable	

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

& Req.ID			
C402.2.6 [ME41] ³	Thermally ineffective panel surfaces of sensible heating panels have	□Complies □Does Not	
	insulation >= R-3.5.	□Not Observable □Not Applicable	
C403.8.1 [ME65] ³	ME65] ³ conditions do not exceed allowable		See the Mechanical Systems list for values.
		□Not Observable □Not Applicable	
C403.8.3 [ME117] ²		□Complies □Does Not	
an FEI >= 0.95.		□Not Observable □Not Applicable	
C403.8.3 [ME117] ²	Fans have a fan energy index (FEI) >= 1.00. Variable volume fans will have	□Complies □Does Not	
	an FEI >= 0.95.	□Not Observable □Not Applicable	
C403.8.3 [ME117] ²	Fans have a fan energy index (FEI) >=		
	an FEI >= 0.95.	□Not Observable □Not Applicable	
C403.8.3 [ME117] ²	Fans have a fan energy index (FEI) >=	Complies	
[MEII7]*	an FEI >= 0.95.	□Does Not □Not Observable	
C403.8.4	Motors for fans that are not less than	□Not Applicable □Complies	
[ME142] ²	1/12 hp and less than 1 hp are electronically commutated motors or	□Does Not	
	have a minimum motor efficiency of 70 percent. These motors have the means to adjust motor speed.	□Not Observable □Not Applicable	
C403.8.6 [ME143] ²		☐Complies ☐Does Not	
	system with fans > 1/4 hp are designed to vary the indoor fan airflow as a function of load and comply with detailed requirements of this section.	□Not Observable □Not Applicable	
C403.9 [ME144] ²	Large diameter fans where installed shall be tested and labeled in	□Complies □Does Not	
	accordance with AMCA 230.	□Not Observable □Not Applicable	
C403.3 [ME55] ²		□Complies □Does Not	See the Mechanical Systems list for values.
		□Not Observable □Not Applicable	
C403.5.5 [ME113] ²		□Complies □Does Not	
(units or VRF units having economizers.	□Not Observable □Not Applicable	
C403.2.2 [ME59] ¹		□Complies □Does Not	
	International Mechanical Code Chapter 4. Mechanical ventilation has capability to reduce outdoor air supply to minimum per IMC Chapter 4.	□Not Observable	

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

Page 9 of 14

Data filename:

▲ COM*check* Software Version COMcheckWeb **Inspection Checklist**

<u> </u>	Energy Code: 2021 IE		
kt in th Juireme	ent, the user certifies that a code re	n is provided by t equirement will be	Icheck software he user in the COMcheck Requirements screen. For each e met and how that is documented, or that an exception table, a reference to that table is provided.
ection # Req.ID	Plan Review	Complies?	Comments/Assumptions
03.2 2] ¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the mechanical and service water heating systems and document where exceptions to the standard are claimed. Load calculations per acceptable engineering standards and handbooks. Hot water system sized per manufacturer's sizing guide.	□Complies □Does Not □Not Observable □Not Applicable	
06 9]¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the additional energy	□Complies □Does Not □Not Observable □Not Applicable	

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

Data filename:

QuantitySystem Type & Description

Project Title: IDAHO STATE POLICE DISTRICT #6

1 Wall mount (Single Zone):

Data filename:

Project Information

Efficiency Packages

Mechanical Systems List

4 HP-1,4 (Unknown):

4 HP-2,3 (Unknown):

Credits: 5.0 Required 0.0 Proposed

Quantity System Type & Description

HP-5/ERV-1 (Single Zone):

Project Title: IDAHO STATE POLICE DISTRICT #6

Quantity System Type & Description

index must be 1.00 or higher

1 GUH (Single Zone w/ PerimeterSystem

1 ELECTRIC HEATER 2 (Single Zone w/ PerimeterSystem

1 ELECTRIC HEATER 1 (Single Zone w/ PerimeterSystem):

Recovery System No minimum efficiency requirement applies

1 Ducted 48 (Single Zone w/ PerimeterSystem):

1 RTU 1.2 (Single Zone w/ PerimeterSystem):

1 RTU 3 (Single Zone w/ PerimeterSystem):

Report date: 10/08/24

NF: 14 (Unitwolf):

VRF Condensing Unit, Air Cooled Heat Pump

Heating Mode: Capacity = 108 kBtu/h,

Proposed Efficiency = 3.50 COP, Required Efficiency = 3.30 COP

Cooling Mode: Capacity = 96 kBtu/h,

Proposed Efficiency = 11.20 EER, Required Efficiency = 11.00 EER

Proposed Part Load Efficiency = 18.70 IEER, Required Part Load Efficiency = 14.60 IEER

Fan System: None

NP-2.3 (UNRIGWN):
VRF Condensing Unit, Air Cooled Heat Pump
Heating Mode: Capacity = 135 kBtu/h,
Proposed Efficiency = 3.40 COP, Required Efficiency = 3.30 COP
Cooling Mode: Capacity = 120 kBtu/h,
Proposed Efficiency = 11.00 EER, Required Efficiency = 11.00 EER
Proposed Part Load Efficiency = 18.70 IEER, Required Part Load Efficiency = 14.60 IEER
Fan System: None

DOAS, Air Source Heat Pump
Heating Mode: Capacity = 60 kBtu/h,
Proposed Efficiency = 5.30 ISCOP, Required Efficiency = 2.70 ISCOP
Cooling Mode: Capacity = 88 kBtu/h,
Proposed Efficiency = 10.10 ISMRE, Required Efficiency = 4.00 ISMRE
Proposed Part Load Efficiency = 10.10, Required Part Load Efficiency = 0.00
Fan System: erv -- Compliance (Motor nameplate HP and fan efficiency method): Passes

Heating: 1 each - Central Furnace (F-A), Gas, Capacity = 66 kBtu/h
Proposed Efficiency = 96.00% Et, Required Efficiency: 80.00 % Et or 80% AFUE
Cooling: 1 each - Split System (CU-A), Capacity = 36 kBtu/h, Air-Cooled Condenser, No Ec
exception: None
Proposed Efficiency = 16.00 SEER2, Required Efficiency = 13.40 SEER2
Proposed Part Load Efficiency = 0.00, Required Part Load Efficiency = 0.00
Fan System: FURANCE -- Compliance (Motor nameplate HP and fan efficiency method):

Heating: 3 each - Unit Heater (GUH), Gas, Capacity = 105 kBtu/h Proposed Efficiency = 83.00% Ec, Required Efficiency: 80.00 % Ec Fan System: Unspecified

exhaust Exhaust, Constant Volume, 1000 CFM, 1.5 motor nameplate hp, 1.60 fan energy index

rails: Fan Supply, Constant Volume, 1380 CFM, 1.5 motor nameplate hp, 0.00 fan energy index , fan exception: Single fan <= 5HP

Heating: 2 each - Unit Heater (1.5 KW HEATER), Electric, Capacity = 5115 kBtu/h
No minimum efficiency requirement applies
Fan System: ELECTRICT HEATER - Compliance (Motor nameplate HP and fan efficiency method): Fails: Fan: FAILS:
Fan energy index must be 1.00 or higher

Fan Supply, Constant Volume, 160 CFM, 1.0 motor nameplate hp, 0.00 fan energy index , fan exception: Single fan <= 5HP

Heating: 1 each - Unit Heater (4 KW HEATER), Electric, Capacity = 14 kBtu/h
No minimum efficiency requirement applies
Fan System: ELECTRICT HEATER - Compliance (Motor nameplate HP and fan efficiency method) : Fails: Fan : FAILS:
Fan energy index must be 1.00 or higher

Fan Supply, Constant Volume, 160 CFM, 1.0 motor nameplate hp, 0.00 fan energy index , fan exception: Single fan <= 5HP

Cooling: 3 each - VRF Zone Fan Unit (Ducted 48), Capacity = 48 kBtu/h, No Economizer, Economizer exception: Heat

RTU 1.2 (Single Zone W/ PerimeterSystem):

Heating: I each - Central Furnace (RTU 1.2), Gas, Capacity = 150 kBtu/h

Proposed Efficiency = 80.00% Et. Required Efficiency: 80.00 % Et or 80% AFUE

Cooling: 1 each - Single Package DV Unit (RTU 1.2), Capacity = 56 kBtu/h, Air-Cooled Condenser, Air Economizer

Proposed Efficiency = 14.00 SEER2, Required Efficiency = 13.40 SEER2

Proposed Part Load Efficiency = 0.00, Required Part Load Efficiency = 0.00

Fan System: RTU 2000 I - Compliance (Motor nameplate HP and fan efficiency method): Fails: Fan : FAILS: Fan energy index must be 1.00 or higher

Fan Supply, Constant Volume, 2000 CFM, 1.0 motor nameplate hp, 0.00 fan energy index , fan exception: Single fan <= 5HP

R.U.3 (Single Zone W/ PerimeterSystem):
Heating: 1 each - Central Furnace (RTU 3), Gas, Capacity = 150 kBtu/h
Proposed Efficiency = 80.00% Et, Required Efficiency: 80.00 % Et or 80% AFUE
Cooling: 1 each - Single Package DX Unit (RTU 3), Capacity = 58 kBtu/h, Air-Cooled Condenser, Air Economizer
Proposed Efficiency = 14.00 SEER2, Required Efficiency = 13.40 SEER2
Proposed Part Load Efficiency = 0.00, Required Part Load Efficiency = 0.00
Fan System: rtu 2400 - Compliance (Motor nameplate HP and fan efficiency method): Fails: Fan: FAILS: Fan energy
index must be 1.00 or higher

Fans:
Fan Supply, Constant Volume, 2400 CFM, 2.0 motor nameplate hp, 0.00 fan energy index , fan exception: Single fan

Cooling: 3 each - VRF Zone Fan Unit (wall mount), Capacity = 2 kBtu/h, No Economizer, Economizer exception: VRF systems installed with a DOAS

No minimum efficiency requirement applies
Fan System: 635 -- Compliance (Motor nameplate HP and fan efficiency method): Passes

Fans: Fan Supply, Constant Volume, 635 CFM, 0.5 motor nameplate hp, 0.00 fan energy index , fan exception: Single fan < 1 HP or < 0.89 kW

Project Type:

Construction Site:

Description

Ducted 72 (Single Zone):

Cooling: 4 each - VRF Zone Fan Unit (duct 72), Capacity = 6 kBtu/h, No Economizer, Economizer exception: VRF systems installed with a DOAS

No minimum efficiency requirement applies Fan System: 2045 -- Compliance (Motor nameplate HP and fan efficiency method) : Passes

Fans:
Fan Supply, Constant Volume, 2045 CFM, 0.5 motor nameplate hp, 0.00 fan energy index , fan exception: Single fan < 1 HP or < 0.89 kW ducted 07 (Single Zone): Cooling: 1 each - VRF Zone Fan Unit (duct 07), Capacity = 7 kBtu/h, No Economizer, Economizer exception: VRF systems installed with a DOAS
No minimum efficiency requirement applies
Fan System: 280 -- Compliance (Motor nameplate HP and fan efficiency method): Passes

Fans:
Fan Supply, Constant Volume, 280 CFM, 0.5 motor nameplate hp, 0.00 fan energy index , fan exception: Single fan < 1 HP or < 0.89 kW 1 ducted 12 (Single Zone): Cooling: 1 each - VRF Zone Fan Unit (duct 12), Capacity = 12 kBtu/h, No Economizer, Economizer exception: VRF systems installed with a DOAS No minimum efficiency requirement applies Fan System: 335 -- Compliance (Motor nameplate HP and fan efficiency method): Passes

Fans: Fan Supply, Constant Volume, 335 CFM, 0.5 motor nameplate hp, 0.00 fan energy index , fan exception: Single fan < 1 HP or < 0.89 kW Cooling: 2 each - VRF Zone Fan Unit (duct 15), Capacity = 15 kBtu/h, No Economizer, Economizer exception: VRF systems installed with a DOAS
No minimum efficiency requirement applies
Fan System: 530 CFM -- Compliance (Motor nameplate HP and fan efficiency method): Passes

Fan Supply, Constant Volume, 530 CFM, 0.5 motor nameplate hp, 0.00 fan energy index , fan exception: Single fan < 1 HP or < 0.89 kWducted 18 (Single Zone):
Cooling: 1 each - VRF Zone Fan Unit (duct 15), Capacity = 18 kBtu/h, No Economizer, Economizer exception: VRF systems installed with a DOAS
No minimum efficiency requirement applies
Fan System: 600 -- Compliance (Motor nameplate HP and fan efficiency method): Passes

Fan Supply, Constant Volume, 600 CFM, 0.5 motor nameplate hp, 0.00 fan energy index , fan exception: Single fan $< 1 \, \text{HP}$ or $< 0.89 \, \text{kW}$ ducted 24 (Single Zone): Cooling: 1 each - VRF Zone Fan Unit (duct 24), Capacity = 24 kBtu/h, No Economizer, Economizer exception: VRF systems installed with a DOAS No minimum efficiency requirement applies Fan System: 740 -- Compliance (Motor nameplate HP and fan efficiency method): Passes

Fairs:
Fan Supply, Constant Volume, 740 CFM, 0.5 motor nameplate hp, 0.00 fan energy index , fan exception: Single fan
< 1 HP or < 0.89 kW 1 ducted 30 (Single Zone):

Cooling: 5 each - VRF Zone Fan Unit (duct 30), Capacity = 30 kBtu/h, No Economizer, Economizer exception: VRF systems installed with a DOAS No minimum efficiency requirement applies

Fan System: 810 -- Compliance (Motor nameplate HP and fan efficiency method) : Passes

Fans: Fan Supply, Constant Volume, 810 CFM, 0.5 motor nameplate hp, 0.00 fan energy index , fan exception: Single fan < 1 HP or < 0.89 kW Project Title: IDAHO STATE POLICE DISTRICT #6

****>IMEG** 4943 NORTH 29TH EAST, SUITE A IDAHO FALLS, ID 83401 208.552.9874 www.imegcorp.com IMEG RESERVES PROPRIETARY RIGHTS, INCLUDING COPYRIGHTS, TO THIS DRAWING AND THE DATA SHOWN THEREON. SAID DRAWING AND/OR DATA ARE THE EXCLUSIVE PROPERTY OF IMEG AND SHALL NOT BE USED OR REPRODUCED FOR ANY OTHER PROJECT WITHOUT THE EXPRESS WRITTEN APPROVAL AND PARTICIPATION OF IMEG. ©2024 IMEG CONSULTANTS CORP. PROJECT #24.3008 C23

↑ COM*check* Software Version COM*checkWeb* Mechanical Compliance Certificate 2021 IECC IDAHO STATE POLICE DISTRICT #6 Idaho Falls, Idaho New Construction 10/25/2024 Owner/Agent: Designer/Contractor:

- S **B** B 3-221

S

5 **⊕ Z** ~ ₹ _ z _____ 8 **| —** B C H 990 JOHN

 \ll

9#

 \circ

 \mathbb{A}

REVISIONS

NEW DIST 1155 FOOTE DE HO FALLS, IDAH 115 IDAHO <u>_</u> S ~ 7

Щ 33,

PROJECT NO. 21034 DATE:

AUGUST 2024 DRAWN BY: CHECKED BY:

FACILITY SP NEW DIS 1155 FOOTE DIDAHO FALLS, IDA <u>S</u>

REVISIONS

PROJECT NO. 21034 DATE: AUGUST 2024 DRAWN BY: CHECKED BY:

KEYNOTES

MD-6 REMOVE (E) HEATING UNIT COMPLETELY.

MECHANICAL YARDS

ISP NEW DISTRICT #6 FACILITY KEY PLAN (NOT TO SCALE)

MAIN BUILDING

SHELL

4943 NORTH 29TH EAST, SUITE A IDAHO FALLS, ID 83401 208.552.9874 www.imegcorp.com

IMEG RESERVES PROPRIETARY RIGHTS, INCLUDING COPYRIGHTS, TO THIS DRAWING AND THE DATA SHOWN THEREON. SAID DRAWING AND/OR DATA ARE THE EXCLUSIVE PROPERTY OF IMEG AND SHALL NOT BE USED OR REPRODUCED FOR ANY OTHER PROJECT WITHOUT THE EXPRESS WRITTEN APPROVAL AND PARTICIPATION OF IMEG. ©2024 IMEG CONSULTANTS CORP.

PROJECT #24.3008_C23

MD-8 (E) DUCT AND (E) THERMOSTAT TO BE REMOVED COMPLETELY.

MD-12 COORDINATE WITH GENERAL CONTRACTOR FOR ALL WALL AND ROOF PATCHING REQUIREMENTS. WALL PATCH AND REPAIR BY G.C.

PLAN NOTES

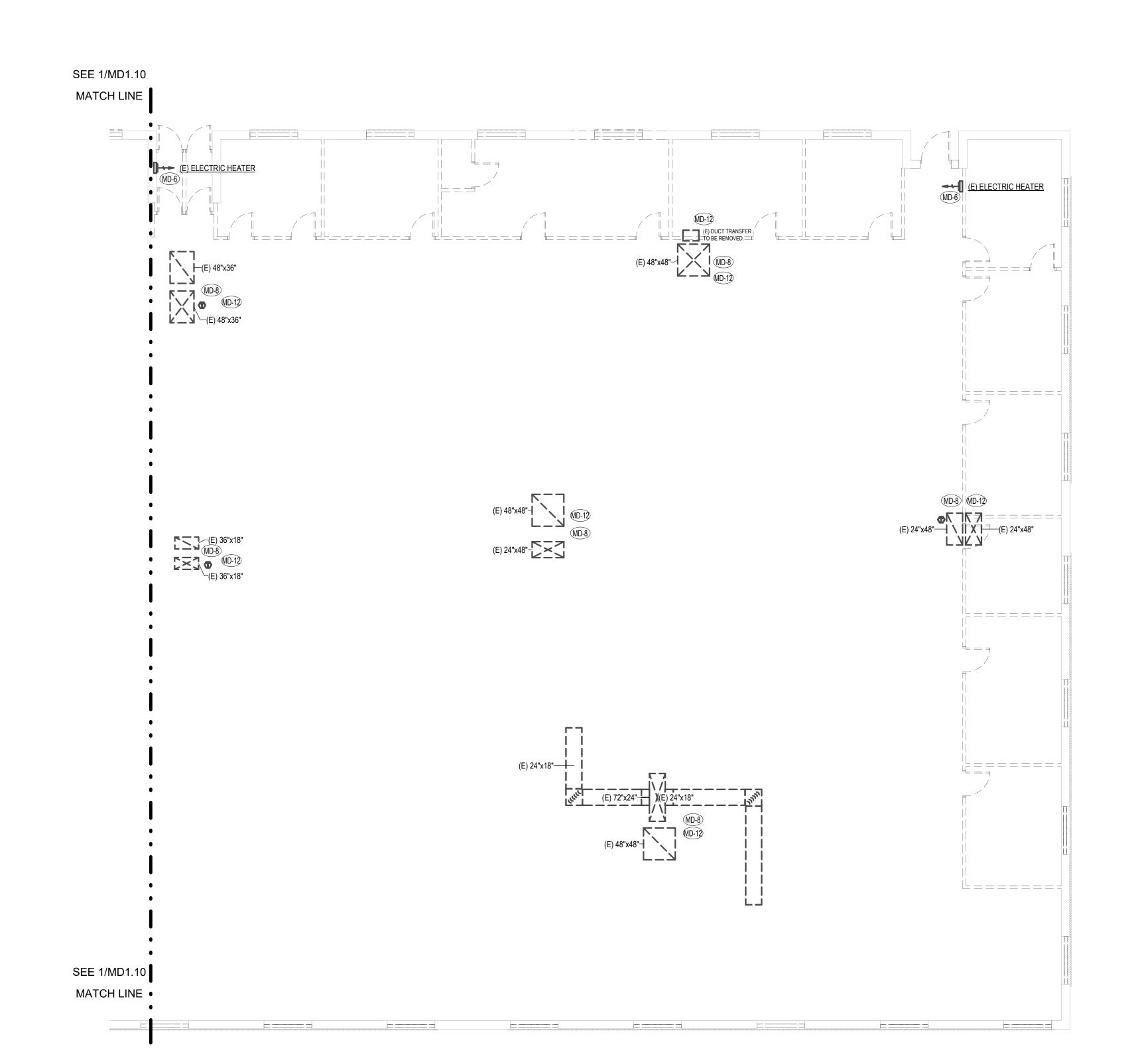
A. EXISTING DUCTWORK LOCATIONS AND SIZES ARE SHOWN FOR REFERENCE AND ARE BASED ON PREVIOUS DRAWINGS AND SITE VISITS. VERIFY LOCATIONS AND SIZES IN FIELD.

1 ISP NEW DISTRICT #6 FACILITY
1155 FOOTE DRIVE
IDAHO FALLS, IDAHO 83402 **DPW 22511**

REVISIONS

PROJECT NO. 21034 DATE: AUGUST 2024 DRAWN BY: CHECKED BY:

DRAWING NO.:



MECHANICAL DEMOLITION FLOOR PLAN - SHELL

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

PLAN NOTES

SEE 1/MD1.21

FACILITY 9# REMODEL FOR:

ISP NEW DISTRICT #

1155 FOOTE DRIVE
IDAHO FALLS, IDAHO 83402

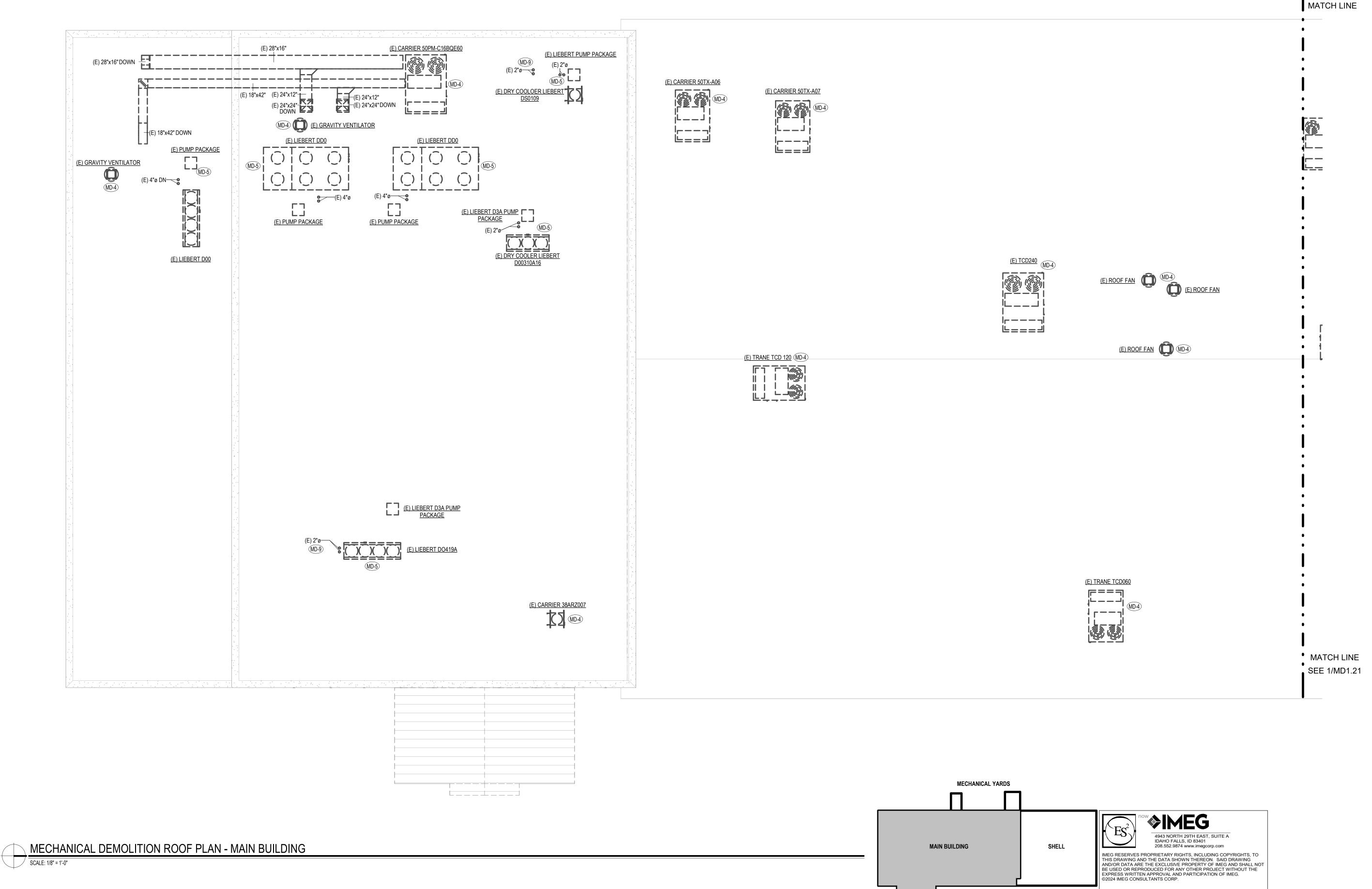
SP **DPW 22511**

REVISIONS

PROJECT NO. 21034 DATE: AUGUST 2024 DRAWN BY: CHECKED BY:

DRAWING NO.:

PROJECT #24.3008_C23



ISP NEW DISTRICT #6 FACILITY KEY PLAN (NOT TO SCALE)

MECHANICAL YARDS

ISP NEW DISTRICT #6 FACILITY KEY PLAN (NOT TO SCALE)

MAIN BUILDING

SHELL

MD-4 REMOVE (E) ROOF EQUIPMENT, (E) ASSOCIATED DUCTWORK, AND (E) ASSOCIATED PIPING COMPLETELY. COORDINATE ROOF CURB REMOVAL AND PATCH WORK WITH GC.

A. EXISTING DUCTWORK LOCATIONS AND SIZES ARE SHOWN FOR REFERENCE AND ARE BASED ON PREVIOUS DRAWINGS AND SITE VISITS. VERIFY LOCATIONS AND SIZES IN FIELD.

4943 NORTH 29TH EAST, SUITE A IDAHO FALLS, ID 83401 208.552.9874 www.imegcorp.com

IMEG RESERVES PROPRIETARY RIGHTS, INCLUDING COPYRIGHTS, TO THIS DRAWING AND THE DATA SHOWN THEREON. SAID DRAWING AND/OR DATA ARE THE EXCLUSIVE PROPERTY OF IMEG AND SHALL NOT BE USED OR REPRODUCED FOR ANY OTHER PROJECT WITHOUT THE EXPRESS WRITTEN APPROVAL AND PARTICIPATION OF IMEG. ©2024 IMEG CONSULTANTS CORP.

PROJECT #24.3008_C23

MD-11 REMOVE (E) GOOSENECK DUCTWORK. COORDINATE PATCH WORK WITH GC.

REMODEL FOR:

ISP NEW DISTRICT #6 FACILITY

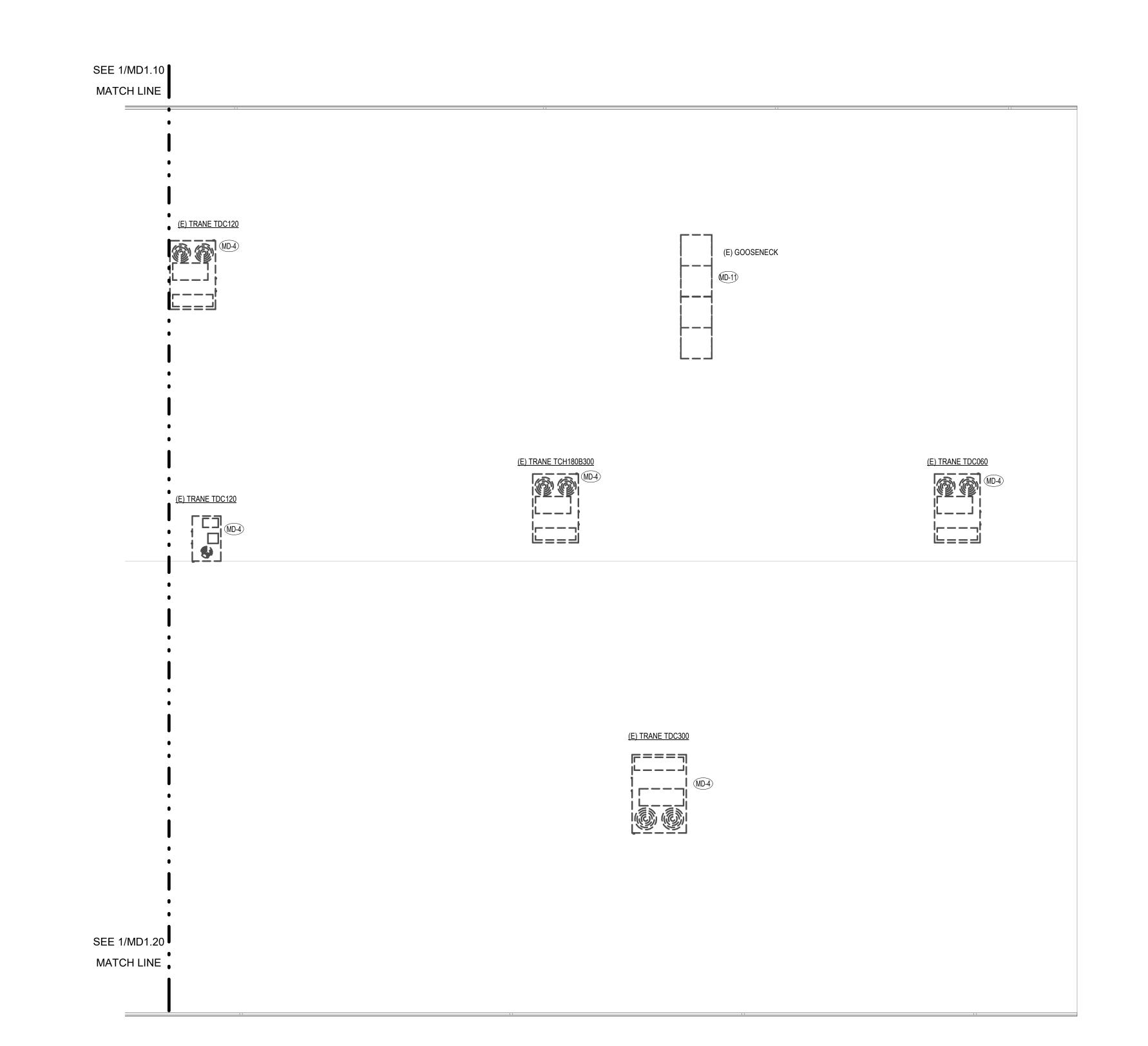
1155 FOOTE DRIVE
IDAHO FALLS, IDAHO 83402

REVISIONS

DPW 2251

PROJECT NO. 21034 date: AUGUST 2024 DRAWN BY: CHECKED BY:

DRAWING NO.:



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

MECHANICAL DEMOLITION ROOF PLAN - SHELL

10/25/2024

FACILITY 9# SP NEW DIS 1155 FOOTE DIDAHO FALLS, IDA SP

DPW 22511

REVISIONS

PROJECT NO. 21034 DATE: AUGUST 2024 DRAWN BY: CHECKED BY:

10/25/2024 3:40:43 PM Autodesk Docs://DPW 22511 ISP District 6 HQ/24.3008_Idaho State Police D6 HQ Revisions_MP.rv

KEYNOTES

PLAN NOTES

A. REFRIGERANT PIPING SIZES PER MANUFACTURER'S RECOMMENDATION BASED ON FINAL FIELD ROUTING. INSTALL PIPING PER MANUFACTURER'S RECOMMENDATIONS. ROUTE PIPING FROM OUTDOOR UNIT TO CORRESPONDING INDOOR UNIT ABOVE CEILINGS AND WITHIN WALLS. COORDINATE ROUTING WITH ALL TRADES PRIOR TO INSTALLATION.

B. DO NOT FABRICATE OR PURCHASE DUCTWORK OR EQUIPMENT PRIOR TO CONFIRMING ALL ROUTING AND INSTALLATION REQUIREMENTS WITH ALL

TRADES.

C. PROVIDE A SEPARATE DUCT RUNOUT FROM EACH AIR DEVICE TO THE NEAREST DUCT MAIN. DUCT RUNOUTS TO MATCH AIR DEVICE NECK SIZE UNLESS NOTED OTHERWISE.

REMODEL FOR:

ISP NEW DISTRICT #6 FACILITY

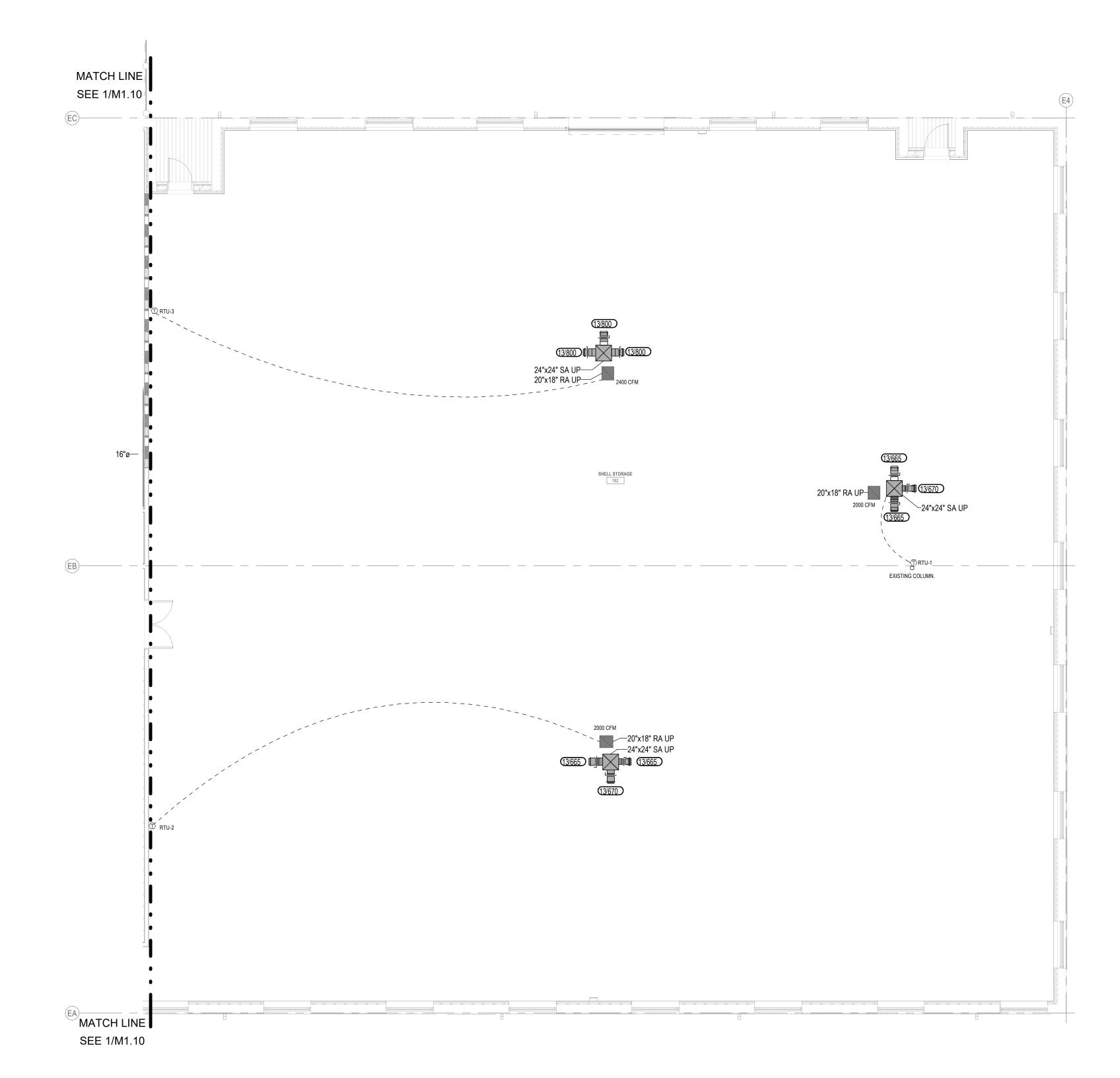
1155 FOOTE DRIVE
IDAHO FALLS, IDAHO 83402 **DPW 22511**

REVISIONS

PROJECT NO. 21034 DATE: AUGUST 2024 DRAWN BY:

DRAWING NO.:

CHECKED BY:



MECHANICAL YARDS

ISP NEW DISTRICT #6 FACILITY KEY PLAN (NOT TO SCALE)

MAIN BUILDING

SHELL

4943 NORTH 29TH EAST, SUITE A IDAHO FALLS, ID 83401 208.552.9874 www.imegcorp.com

IMEG RESERVES PROPRIETARY RIGHTS, INCLUDING COPYRIGHTS, TO THIS DRAWING AND THE DATA SHOWN THEREON. SAID DRAWING AND/OR DATA ARE THE EXCLUSIVE PROPERTY OF IMEG AND SHALL NOT BE USED OR REPRODUCED FOR ANY OTHER PROJECT WITHOUT THE EXPRESS WRITTEN APPROVAL AND PARTICIPATION OF IMEG. ©2024 IMEG CONSULTANTS CORP.

PROJECT #24.3008_C23

MECHANICAL FLOOR PLAN - SHELL

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

KEYNOTES PLAN NOTES A. REFRIGERANT PIPING SIZES PER MANUFACTURER'S RECOMMENDATION BASED ON FINAL FIELD ROUTING. INSTALL PIPING PER MANUFACTURER'S RECOMMENDATIONS. ROUTE PIPING FROM OUTDOOR UNIT TO CORRESPONDING M10 INSTALL VENT AND COMBUSTION AIR PIPING FROM WATER HEATER AND TERMINATE AT ROOF PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. FIELD VERIFY INDOOR UNIT ABOVE CEILINGS AND WITHIN WALLS. COORDINATE ROUTING WITH FINAL ROUTING. COORDINATE FINAL TERMINATION LOCATION WITH GENERAL ALL TRADES PRIOR TO INSTALLATION.

B. DO NOT FABRICATE OR PURCHASE DUCTWORK OR EQUIPMENT PRIOR TO CONTRACTOR TO MAINTAIN MIN 10' HORIZONTAL SEPARATION FROM FRESH AIR INTAKE INTO BUILDING AND MINIMUM 3' FROM OPERABLE OPENING INTO THE CONFIRMING ALL ROUTING AND INSTALLATION REQUIREMENTS WITH ALL BUILDING. PROVIDE UL LISTED FIRE COLLAR AT RATED ASSEMBLY PENETRATIONS. M11 ERV OSA INTAKE TO BE MINIMUM OF 20 FEET FROM ALL EXHAUST. MATCH LINE SEE 1/M1.21 00 <u>PH-2</u> 3"ø SA DN REMODEL FOR:

ISP NEW DISTRICT #6 FACILITY

1155 FOOTE DRIVE
IDAHO FALLS, IDAHO 83402 **DPW 22511** <u>EF-2</u> 00 MATCH LINE REVISIONS SEE 1/M1.21 PROJECT NO. 21034 DATE: AUGUST 2024 DRAWN BY: MECHANICAL YARDS CHECKED BY: *** IMEG MECHANICAL ROOF PLAN - MAIN BUILDING

SCALE: 1/8" = 1'-0" DRAWING NO.: 4943 NORTH 29TH EAST, SUITE A IDAHO FALLS, ID 83401 208.552.9874 www.imegcorp.com MAIN BUILDING IMEG RESERVES PROPRIETARY RIGHTS, INCLUDING COPYRIGHTS, TO THIS DRAWING AND THE DATA SHOWN THEREON. SAID DRAWING AND/OR DATA ARE THE EXCLUSIVE PROPERTY OF IMEG AND SHALL NOT BE USED OR REPRODUCED FOR ANY OTHER PROJECT WITHOUT THE EXPRESS WRITTEN APPROVAL AND PARTICIPATION OF IMEG. ©2024 IMEG CONSULTANTS CORP. ISP NEW DISTRICT #6 FACILITY KEY PLAN (NOT TO SCALE) PROJECT #24.3008_C23

PLAN NOTES

REMODEL FOR:

ISP NEW DISTRICT #6 FACILITY

1155 FOOTE DRIVE
IDAHO FALLS, IDAHO 83402 DPW 22511 I

PROJECT NO. 21034 DATE: AUGUST 2024 DRAWN BY: CHECKED BY:

DRAWING NO.:

ISP NEW DISTRICT #6 FACILITY KEY PLAN (NOT TO SCALE)

PROJECT #24.3008_C23

KEYNOTES

- M1 INSTALL VENT AND COMBUSTION AIR PIPING FROM UNIT HEATER. TERMINATE AT EXTERIOR WALL WITH CONCENTRIC ADAPTER PER MANUFACTURER'S I ERMINATION LOCATION WITH GENERAL CONTRACTOR TO MAINTAIN MIN 10'
 HORIZONTAL SEPARATION FROM FRESH AIR INTAKE INTO BUILDING AND MINIMUM 3'
 FROM OPERABLE OPENING INTO THE BUILDING.
- M5 INTERLOCK MOTORIZED DAMPER TO OPEN WHEN FAN COIL IS IN OPERATION. BALANCE ADJACENT MANUAL DAMPER TO PROVIDE NOTED OSA CFM NOTED.

PLAN NOTES A. REFRIGERANT PIPING SIZES PER MANUFACTURER'S RECOMMENDATION BASED ON FINAL FIELD ROUTING. INSTALL PIPING PER MANUFACTURER'S RECOMMENDATIONS. ROUTE PIPING FROM OUTDOOR UNIT TO CORRESPONDING INDOOR UNIT ABOVE CEILINGS AND WITHIN WALLS. COORDINATE ROUTING WITH

C. PROVIDE A SEPARATE DUCT RUNOUT FROM EACH AIR DEVICE TO THE NEAREST DUCT MAIN. DUCT RUNOUTS TO MATCH AIR DEVICE NECK SIZE UNLESS NOTED

REMODEL FOR:

ISP NEW DISTRICT #6 FACILITY

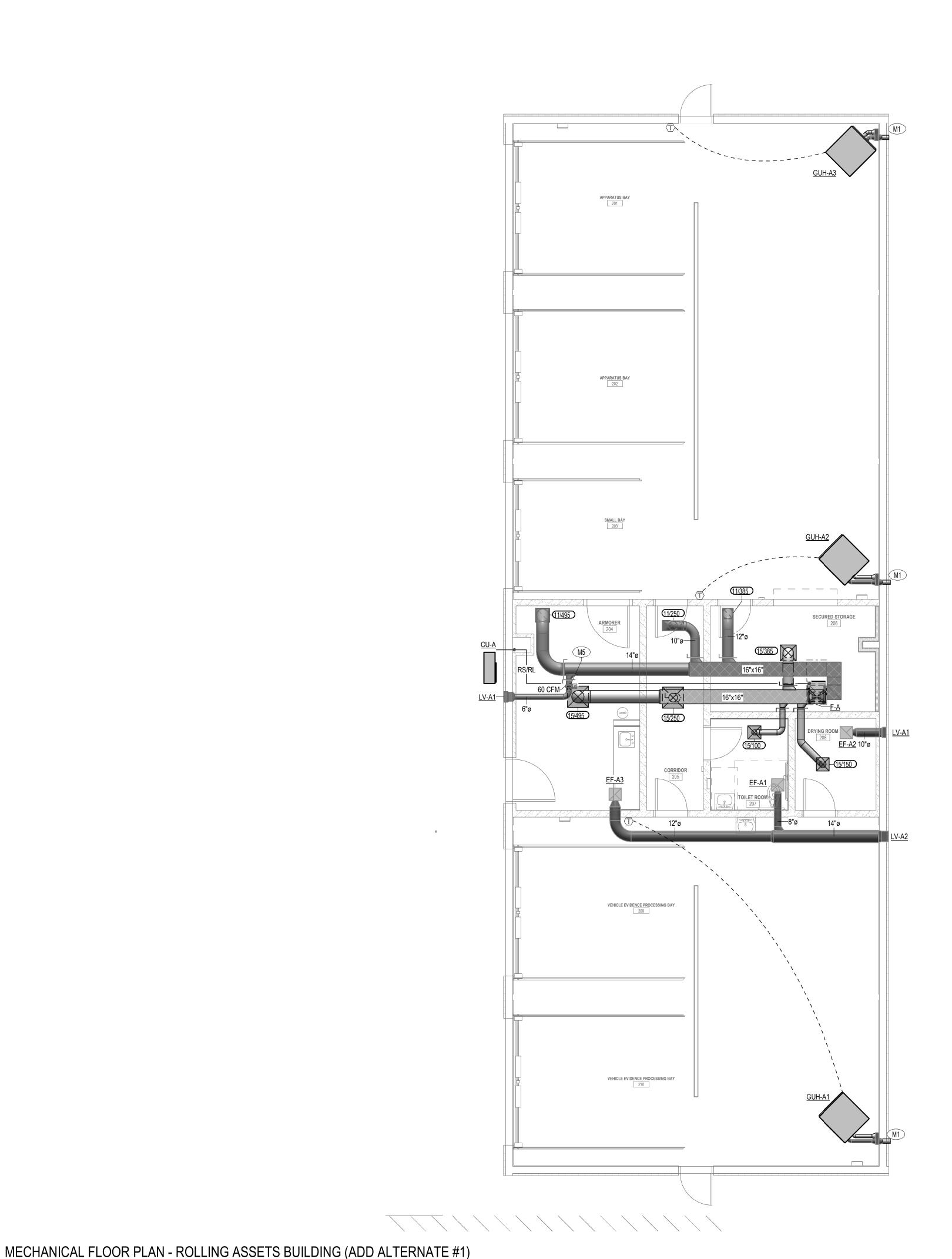
1155 FOOTE DRIVE
IDAHO FALLS, IDAHO 83402 **DPW 22511**

REVISIONS

PROJECT NO. 21034 DATE: AUGUST 2024 DRAWN BY:

DRAWING NO.:

CHECKED BY:



4943 NORTH 29TH EAST, SUITE A IDAHO FALLS, ID 83401 208.552.9874 www.imegcorp.com IMEG RESERVES PROPRIETARY RIGHTS, INCLUDING COPYRIGHTS, TO THIS DRAWING AND THE DATA SHOWN THEREON. SAID DRAWING AND/OR DATA ARE THE EXCLUSIVE PROPERTY OF IMEG AND SHALL NOT BE USED OR REPRODUCED FOR ANY OTHER PROJECT WITHOUT THE EXPRESS WRITTEN APPROVAL AND PARTICIPATION OF IMEG. ©2024 IMEG CONSULTANTS CORP. PROJECT #24.3008_C23

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

ENERGY RECOVERY CONTROL SCHEMATIC

SEQUENCE OF OPERATION

BOTH BUILDINGS TO BE EQUIPPED WITH A FULL HVAC BUILDING MANAGEMENT SYSTEM (BMS). THE SYSTEM TO BE INSTALLED BY ATS. THE MECHANICAL CONTRACTOR MUST INCLUDE ATS AS THE CONTROLS SUB-CONTRACTOR. THE BMS TO BE REMOTELY ACCESSIBLE AND INCORPORATE A FRONT END WITH DETAILED EQUIPMENT GRAPHICS AND FLOOR PLANS APPROVED BY IDAHO STATE POLICE PERSONNEL. CONTROL CONTRACTOR TO PROVIDE ALL HARDWARE, SOFTWARE, LICENSES, DEVICES, WIRING, CONTROLLERS, NETWORK, PROGRAMMING, ETC. FOR A COMPLETE AND FULLY FUNCTIONAL CONTROL SYSTEM. CONTROL CONTRACTOR IS RESPONSIBLE FOR ALL CONTROL CONDUIT. SOME CONTROL CONDUIT MAY BE INCLUDED IN THE ELECTRICAL DRAWINGS AND WILL BE PROVIDED BY THE ELECTRICIAN. INCORPORATE ALARMS WHEN ANY SENSOR READS PLUS OR MINUS 5 DEGREES FROM SET POINT. INITIATE TRENDING FOR ALL POINTS. ALL SET POINTS ARE TO BE ADJUSTABLE. ENSURE POTENTIAL FOR A SEPARATE OCCUPANCY SCHEDULE FOR EACH PIECE OF EQUIPMENT.

MAIN BUILDING

VRF SYSTEM TO BE COMPLETE WITH VRF MANUFACTURER CENTRALIZED CONTROLLER INCORPORATING BACNET INTERFACE FOR FULL BMS INTEGRATION. PROVIDE CENTRAL TOUCHSCREEN VRF CONTROLLER IN MECHANICAL ROOM. ALL CONTROL POINTS, SET POINTS, ALARMS, AND SCHEDULES TO BE DISPLAYED AND EDITABLE THROUGH THE BMS FRONT END.

ENERGY RECOVERY VENTILATOR

COMPLETE CONTROL OF ERV TO BE THROUGH BMS. ERV TO BE EQUIPPED WITH TERMINAL STRIPS AND VFDS WITH BACNET INTERFACE. CONTROL CONTRACTOR TO COORDINATE FINAL SEQUENCE WITH ERV MANUFACTURER AND ENSURE ALL MANUFACTURER REQUIREMENTS AND SETTINGS ARE FOLLOWED.

THE ERV OPERATES CONTINUOUSLY BASED ON OCCUPIED SCHEDULE. COORDINATE ALL OCCUPANCY SCHEDULES AND HOLIDAYS WITH OWNER AND INCORPORATE IN BMS.

CLOSE OUTSIDE AIR AND EXHAUST AIR MOTORIZED DAMPERS WHEN ERV IS DISABLED.

ENERGY RECOVERY WHEEL ROTATION SPEED TO BE CONSTANT UNLESS SLOWER SPEED IS REQUIRED FOR DEFROST. CONFIRM MANUFACTURER RECOMMENDED RPM.

MONITOR PRESSURE DROP ACROSS THE ENERGY RECOVERY WHEEL IN THE EXHAUST AIRSTREAM. WHEN THE PRESSURE DROP EXCEEDS MANUFACTURER RECOMMENDATIONS AND THE OUTSIDE AIR TEMPERATURE IS BELOW 10 DEGREES (DEFROST), SLOW WHEEL RPM TO DEFROST THE WHEEL BASED ON MANUFACTURER RECOMMENDED RPM CHANGES. MONITOR ALL SETTINGS AND ALARMS THROUGH BMS.

MODULATE HEAT PUMP COOLING OR HEATING TO MAINTAIN 70 DEGREE SUPPLY AIR TEMPERATURE. BMS TO FULLY CONTROL OUTDOOR HEAT PUMP UNITS PER MANUFACTURER RECOMMENDATIONS (FANS, COMPRESSORS, REVERSING VALVES, CAPACITY MODULATION, ETC.). MONITOR ALL SETTINGS AND ALARMS THROUGH BMS.

SECOND STAGE OF HEATING IS ELECTRIC HEATING COIL. MODULATE COIL TO MAINTAIN 70 DEGREE SUPPLY AIR TEMPERATURE.

ROOFTOP UNITS

SPACE COOLING SET POINT TO BE 85 DEGREES AND SPACE HEATING SET POINT TO BE 60 DEGREES.

CYCLE SUPPLY FAN ON CALL FOR COOLING OR HEATING.

MONITOR FAN STATUS AND ALARM WHEN I/O DO NOT MATCH.

FIRST STAGE OF COOLING IS OUTSIDE AIR (OSA) ECONOMIZER. MODULATE OSA ECONOMIZER DAMPERS TO MAINTAIN SPACE COOLING TEMPERATURE SET POINT. SET MINIMUM OSA CFM TO SCHEDULED VALUE. 1. WHEN OSA > SPACE TEMPERATURE COOLING SET POINT, MINIMUM OSA 2. WHEN OSA < SPACE TEMPERATURE COOLING SET POINT, MODULATE OSA BETWEEN 100% AND MINIMUM

SECOND STAGE OF COOLING IS DX COIL. ENABLE COMPRESSOR AND CONDENSER FAN TO MAINTAIN SPACE TEMPERATURE SET POINT.

ENABLE GAS HEAT TO MAINTAIN SPACE TEMPERATURE HEATING SET POINT.

COMPLY WITH ROOFTOP MANUFACTURER RECOMMENDATIONS FOR ALL CONTROL REQUIREMENTS. MONITOR ALL ALARMS.

EXHAUST FANS

ENABLE FAN DURING OCCUPIED SCHEDULE. MONITOR FAN STATUS.

NARCOTICS EXHAUST FAN TO OPERATE CONTINUOUSLY. MONITOR FAN STATUS.

ELECTRIC WALL HEATERS

ENABLE HEATER TO MAINTAIN SPACE HEATING TEMPERATURE (OCCUPIED/ UNOCCUPIED) SET POINT.

MONITOR HEATING ELEMENT STATUS.

SPLIT SYSTEMS

SPLIT SYSTEMS TO BE EQUIPPED WITH BACNET CONTROLLERS FOR FULL INTEGRATION WITH BMS. ENABLE SUPPLY FAN, CONDENSER FAN, COMPRESSOR, ETC ON CALL FOR COOLING.

MONITOR ALL SETTINGS AND ALARMS.

ROLLING ASSETS BUILDING (ADD ALTERNATE #1)

NATURAL GAS UNIT HEATER

ENABLE HEATER AND MODULATE GAS VALVE TO MAINTAIN SPACE HEATING TEMPERATURE (OCCUPIED/ UNOCCUPIED) SET POINT. MONITOR FAN STATUS AND ALL SAFETIES.

EXHAUST FANS

ENABLE FAN DURING OCCUPIED SCHEDULE. MONITOR FAN STATUS.

ENABLE SUPPLY FAN DURING OCCUPIED SCHEDULE. CYCLE THE SUPPLY FAN ON HEAT DURING UNOCCIPUED SCHEDULE. MONITOR FAN STATUS AND ALARM WHEN I/0 DO NOT MATCH.

OPEN VENTILATION AIR DAMPER DURING OCCUPIED SCHEDULE.

ENABLE CONDENSING UNIT FAN AND COMPRESSOR TO MAINTAION SPACE TEMPERATURE COOLING SET

ENABLE GAS HEAT TO MAINTAIN SPACE TEMPERATURE HEATING SET POINT.

COMPLY WITH FURNACE MANUFACTURER RECOMMENDATIONS FOR ALL CONTROLS.



ACILIT Щ SP NEW DIST 1155 FOOTE DR IDAHO FALLS, IDAH

5

22

M

REVISIONS

PROJECT NO. DATE: AUGUST 2024 DRAWN BY: CHECKED BY:

PLAN NOTES

- A. CONTRACTOR MUST COORDINATE ALL PIPE ROUTING AND EQUIPMENT LOCATIONS WITH ALL TRADES. COMPLETE A FINAL SCHEMATIC BASED ON ACTUAL LOCATIONS AND LINE LENGTHS WITH FINAL PIPING SIZES. PIPE SIZES ARE SHOWN AS REFERENCE AND MUST BE UPDATED BASED ON FINAL FIELD ROUTING.
 B. CONTRACTOR MUST STRICTLY ADHERE TO VRF MANUFACTURER INSTALLATION REQUIREMENTS AND RECOMMENDATIONS.
 C. VRF MANUFACTURER TO PROVIDE SYSTEM STARTUP AND COMMISSIONING.

SE FOR:

JISTRICT #6 FACILITY

TE DRIVE
IDAHO 83402

M

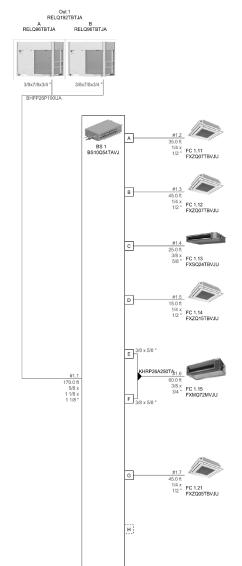
PROJECT NO.

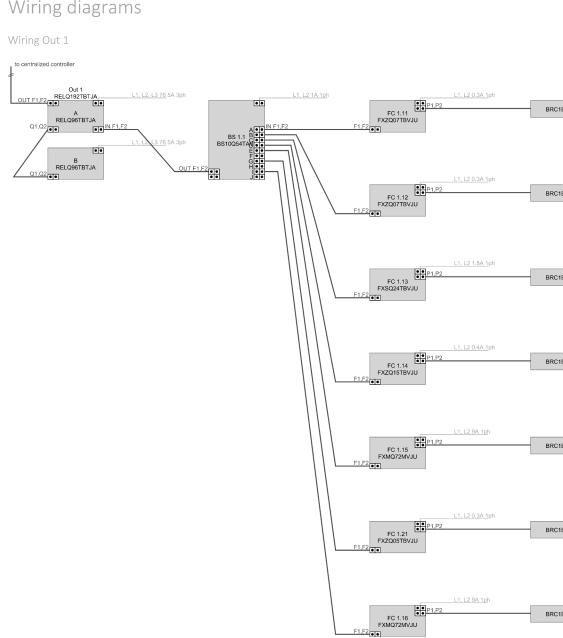
AUGUST 2024 DRAWN BY:

CHECKED BY:

DRAWING NO.:

DAIKIN

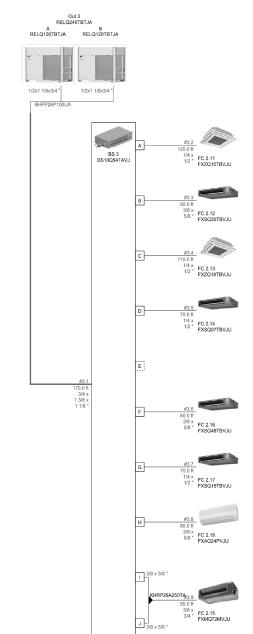




P1P2 = AWG 18-2 is required - however always refer to local code for further information.

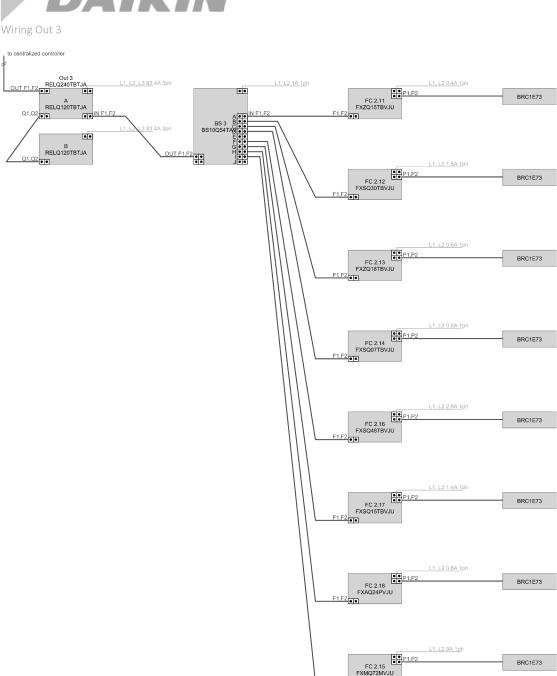
4943 NORTH 29TH EAST, SUITE A IDAHO FALLS, ID 83401 208.552.9874 www.imegcorp.com

DAIKIN



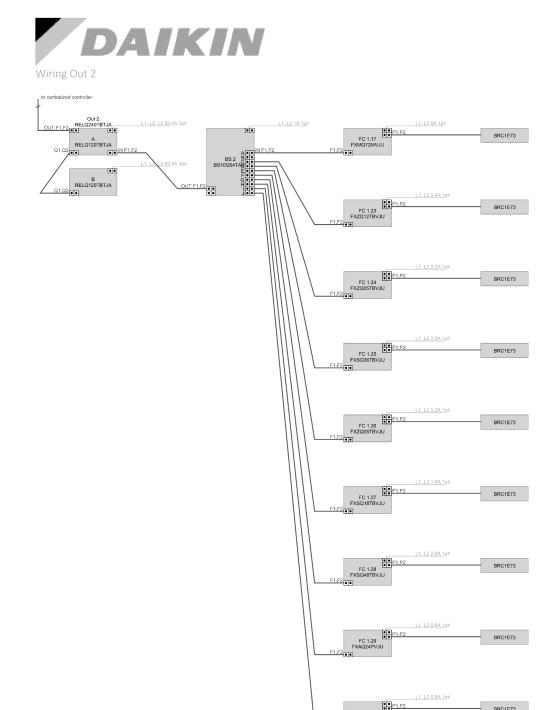
DAIKIN

DAIKIN



P1P2 = AWG 18-2 is required - however always refer to local code for further information. F1F2 IN/OUT = AWG 18-2 is required - however always refer to local code for further information

P1P2 = AWG 18-2 is required - however always refer to local code for further information. F1F2 IN/OUT = AWG 18-2 is required - however always refer to local code for further information



Remarks P1P2 = AWG 18-2 is required - however always refer to local code for further information. F1F2 IN/OUT = AWG 18-2 is required - however always refer to local code for further information

DAIKIN

DAIKIN

DAIKIN Wiring diagrams

Out 1 RELO1927BTJA. L1, L2, L3 76, 5A 3ph RELO967BTJA Q1, Q2 I N F1, F2 BS BS10Q	L1, L2 1A 1ph	FC 1.11 FXZQ07TBVJU	L1, L2 0.3A 1ph	BRC1E7
B RELO96TBTJA Q1.02	1.1 B 0 5 54TAG 0 5 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	FC 1.12 P1.P2 FXZQ07TBVJU	<u>L1, L2 0.3A 1</u> ph	BRC1E7
	F1.i	FC 1.13 FXSO24TBVJU	L1, L2 1.8A 1ph	BRC1E7
	F1.1	FC 1.14 FXZQ15TBVJU	L1, L2 0.4A 1ph	BRC1E7
	F1.	FC 1.15 FXMQ72MVJU	L1, L2 9A 1ph	BRC1E7
	F1.	FC 1.21 FXZQ05TBVJU	<u>L1, L2 0.3A 1</u> ph	BRC1E7
	F1.1	FC 1.16 FXMQ72MVJU	L1, L2 9A 1ph	BRC1E7

F1F2 IN/OUT = AWG 18-2 is required - however always refer to local code for further information

4 M3.00 ERV SECTION 1/4" = 1'-0"

RECOMMENDATIONS. ROUTE PIPING FROM OUTDOOR UNIT TO CORRESPONDING INDOOR UNIT ABOVE CEILINGS AND WITHIN WALLS. COORDINATE ROUTING WITH ALL TRADES PRIOR TO INSTALLATION.

B. DO NOT FABRICATE OR PURCHASE DUCTWORK OR EQUIPMENT PRIOR TO CONFIRMING ALL ROUTING AND INSTALLATION REQUIREMENTS WITH ALL

TRADES. C. PROVIDE A SEPARATE DUCT RUNOUT FROM EACH AIR DEVICE TO THE NEAREST

DUCT MAIN. DUCT RUNOUTS TO MATCH AIR DEVICE NECK SIZE UNLESS NOTED

PLAN NOTES

KEYNOTES

M13 DUCTWORK INTENDED TO BE ROUTED THROUGH TRUSSES.

4943 NORTH 29TH EAST, SUITE A IDAHO FALLS, ID 83401 208.552.9874 www.imegcorp.com

PROJECT #24.3008_C23

IMEG RESERVES PROPRIETARY RIGHTS, INCLUDING COPYRIGHTS, TO THIS DRAWING AND THE DATA SHOWN THEREON. SAID DRAWING AND/OR DATA ARE THE EXCLUSIVE PROPERTY OF IMEG AND SHALL NOT BE USED OR REPRODUCED FOR ANY OTHER PROJECT WITHOUT THE EXPRESS WRITTEN APPROVAL AND PARTICIPATION OF IMEG.

©2024 IMEG CONSULTANTS CORP.

FACILITY ISP NEW DISTRICT #6 F
1155 FOOTE DRIVE
IDAHO FALLS, IDAHO 83402 DRIVE AHO 83402 DPW 2251

REVISIONS

PROJECT NO. 21034 DATE: AUGUST 2024 DRAWN BY: JM CHECKED BY:

PLAN NOTES

- A. REFRIGERANT PIPING SIZES PER MANUFACTURER'S RECOMMENDATION BASED ON FINAL FIELD ROUTING. INSTALL PIPING PER MANUFACTURER'S RECOMMENDATIONS. ROUTE PIPING FROM OUTDOOR UNIT TO CORRESPONDING INDOOR UNIT ABOVE CEILINGS AND WITHIN WALLS. COORDINATE ROUTING WITH ALL TRADES PRIOR TO INSTALLATION.

 B. REFER TO VRF PIPING SCHEMATICS FOR ADDITIONAL ROUTING REQUIREMENTS.

#6 FACILITY

REMODEL FOR:

ISP NEW DISTRICT #

1155 FOOTE DRIVE
IDAHO FALLS, IDAHO 83402

DPW 22511

REVISIONS

PROJECT NO. 21034 DATE:

AUGUST 2024 DRAWN BY:

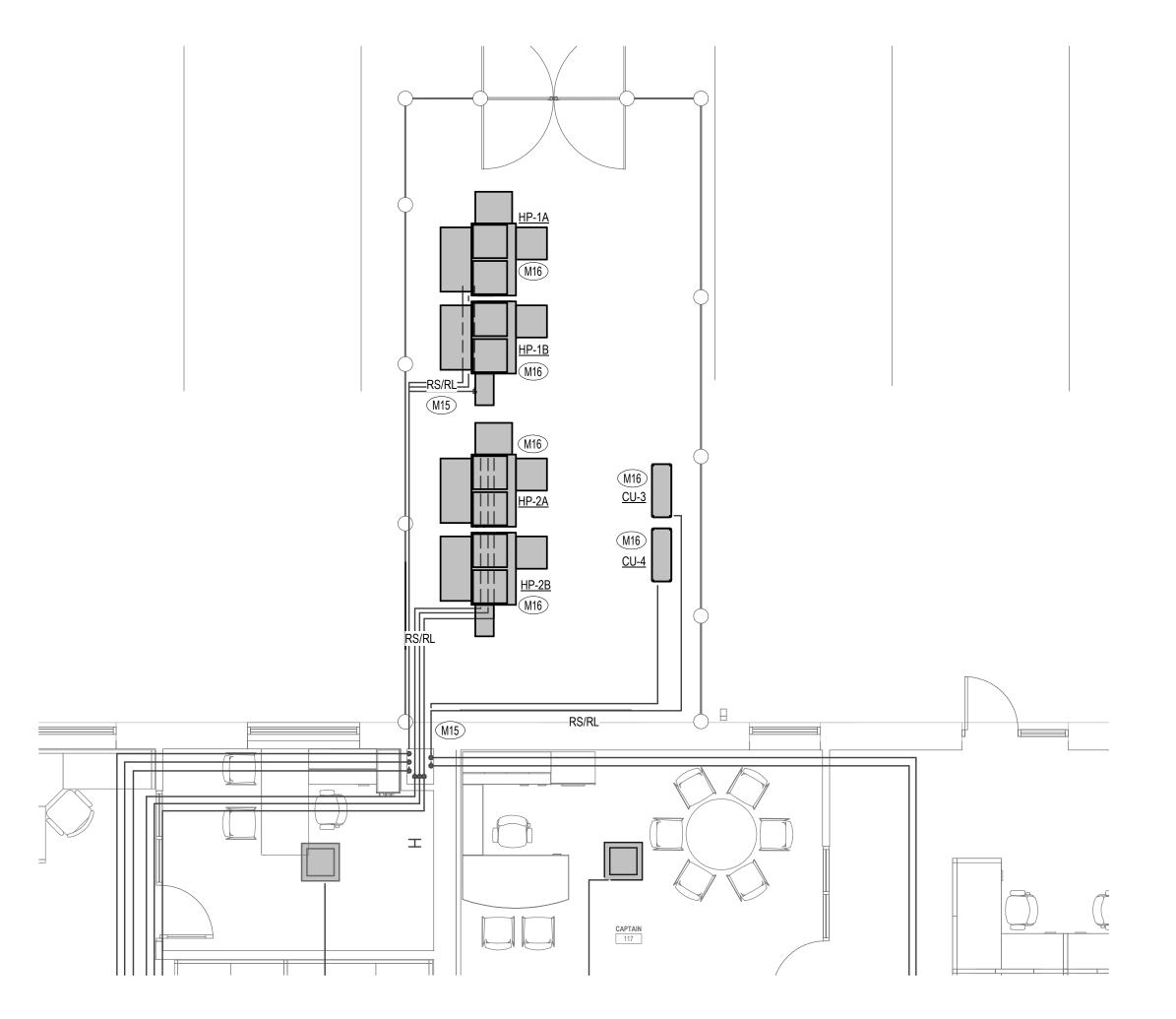
CHECKED BY:

DRAWING NO.:

ED FLOOR

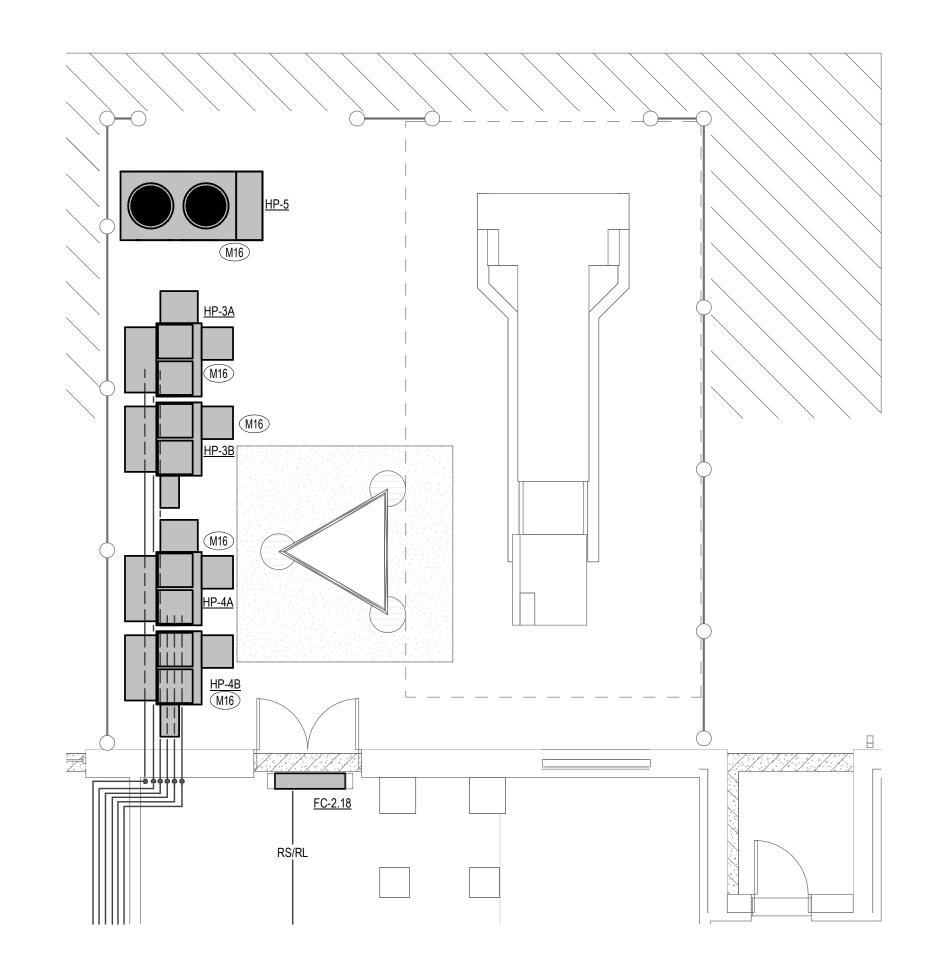
KEYNOTES

- M15 VRF PIPING TO BE STACKED 3 HIGH FOR HEAT RECOVERY UNITS AND 2 HIGH FOR COOLING ONLY UNITS.
- M16 PROVIDE 24" HIGH MIRO INDUSTRIES (OR APPROVED EQUAL)EQUIPMENT STANDS FOR ALL HP AND CU UNITS. ANCHOR EQUIPMENT TO STAND AND STAND TO CONCRETE PAD PER ENGINEER SEISMIC CALCULATIONS. COORDINATE STAND LOCATIONS WITH ELECTRICIAN AND G.C. FOR CONCRETE TRENCH AND ELECTRIC SNOWMELT PAD LOCATIONS AND SIZES.

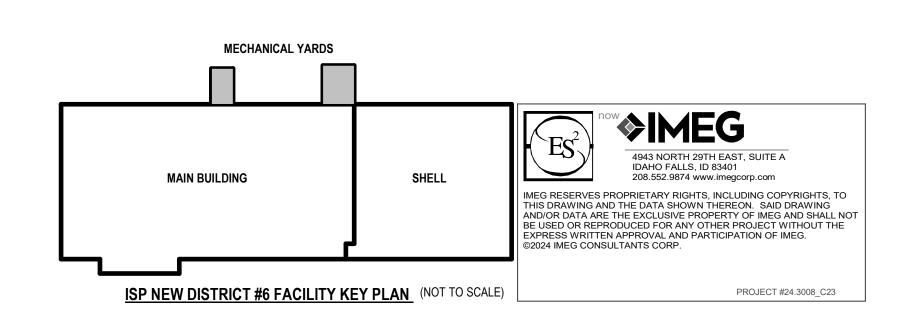


MECHANICAL ENLARGED FLOOR PLAN - MECHANICAL YARD

3/16" = 1'-0"



MECHANICAL ENLARGED FLOOR PLAN - GENERATOR YARD



	(6	TRANSVERSE REINFORCING (1)						
<u> </u>	SIDES)				AT JOIN	ΓS		
DIMENSION OF LONGEST SIDE (IN)	SHEET METAL GAGE (ALL FOUR §	MIN. REINFORCING ANGLE SIZE AND MAX. LONGITUDINAL SPACING BETWEEN TRANSVERSE		DRIVE SLIP PLAIN S SLIP	HEMMED S SLIP	ALTER'NT BAR SLIP	REIN- FORCED BAR SLIP	
DIMENSI SHEET ME	JOINTS AND OR INTERMEDIATE REINFORCING	MIN. H. IN.	RECOMMENDED GAGE	RECOMMENDED GAGE	RECOMMENDED GAGE	RECOMMENDED GAGE		
UP THRU 12	26	NONE REQUIRED	1	26	26	24	24	
13 THRU 18	24	NONE REQUIRED	1	24	24	24	24	
19 THRU 30	24	1"x1"x1/8" AT 60"	1	-	24	24	24	
31 THRU 36	22	1"x1"x1/8" AT 60"	1	-	-	22	22	

(1) TRANSVERSE REINFORCING SIZE IS DETERMINED BY DIMENSION OF SIDE TO WHICH ANGLE IS APPLIED (2) LONGITUDINAL JOINTS TO BE PITTSBURGH OR SNAP LOCK TYPE

24" MAX

KEYNOTES:

DIMENSION "D"

1. DISTANCE MUST BE LESS THAN 33% OF

NOTES:

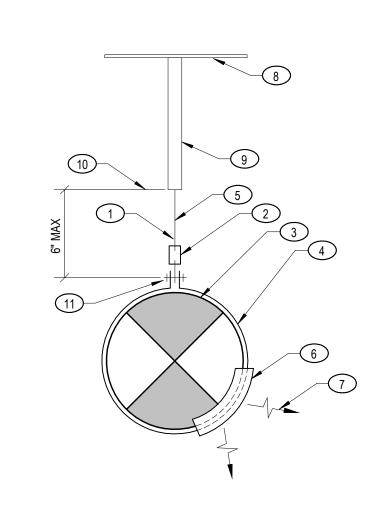
- THAN TWO DUCT WIDTHS TO ELBOWS OR
- INTERSECTIONS.

 B. AREA OF LXW SHALL BE EQUAL TO 1.5 x AREA BRANCH DUCT.
- C. FLEX DUCT IS NOT ALLOWED ABOVE HARD OR INACCESSIBLE CEILINGS.

KEYNOTES:

- A. TAKE-OFFS SHOULD NOT BE INSTALLED CLOSER 1. 45° TAP AND DAMPER ASSEMBLY IS PRE-MANUFACTURED (SEE SPECIFICATIONS FOR
 - APPROVED MANUFACTURES). DO NOT FABRICATE IN SHOP OR FIELD. 2. RIGID ROUND DUCTOR DIFFUSER COLLAR. CEILING DIFFUSER.
 - 4. LOCKING QUADRANT HANDLE OR REMOTE CEILING OPERATOR WHERE DAMPER IS INACCESSIBLE (OPERATOR EXTENSION WHERE INSULATED). 5. AIR FLOW.
 - 6. SEE SECTION A. FOR FLEX DUCT APPLICATIONS. 7. INSULATED FLEX DUCT MAX LENGTH 5' - 0" OR RIGID ROUND DUCT. FLEX DUCT MAY BE INSTALLED ABOVE ACCESS CEILINGS. RIGID DUCT MUST BE INSTALLED ABOVE HARD OR IN
 - ACCESSIBLE CEILINGS. 8. NYLON CLAMP OVER INSULATION.
 - 9. NYLON CLAMP OVER FLEX DUCT.
 10. INSULATION. 11. FLEX DUCT.

TYPICAL DUCT CONSTRUCTION



KEYNOTES:

- ALLTHREAD ROD.
 GRINNEL #114 TURNBUCKLE.
- 3. GALVANIZED SPIRAL DUCT. 4. 14 GAUGE WIDE STEEL STRAP INSTALLED TIGHT
- AROUND DUCT. 5. SEE DETAIL 10/ S5.1 TYPICAL SUSPENDED HVAC DISTRIBUTION ANCHORAGE FOR ANCHORAGE DETAILS.
- 6. DUCT MOUNTED AIR DEVICE
- 7. AIR THROW DIRECTION
- 8. PLYWOOD ROOF SHEATHING 9. 2X12 ROOF RAFTER (RJ1) 10. BOTTOM OF ROOF RAFTER
- 11. STEEL ROD CLEVIS KIT WITH RETAINER RINGS (SPEEDAIRE 5VKV7.)

- A. ALL EXPOSED DUCT TO BE GALVANIZED SPIRAL DUCT. HANG ALL DUCT WITH ALLTHREAD ROD DUCTSTRAP IS PROHIBITED. CONSTRUCT ALL
- SPIRAL DUCT WITH CLEAN APPEARANCE. B. ALL NEW AND EXPOSED DUCT TO BE PAINTED, COLOR BY ARCHITECT. REMOVE ALL DIRT, GREASE, AND LUBRICANT WITH "SIMPLE GREEN" OR APPROVED EQUAL. PAINT WITH HIGH QUALITY PAINT SUCH AS "SHERWIN WILLIAMS WATERBORNE ACRYLIC DRYFALL" OR APPROVED

TYPICAL EXPOSED DUCTWORK

8 TYPICAL REFRIGERANT PIPE SUPPORT

- 1. ATTACH TO STRUCTURE 2. BUTT INSULATION OF SUCTION LINE
- AGAINST CLAMP ASSEMBLY 3. SECURE REFRIGERANT PIIPING TO
- SUPPORTS WITH "HYDRA-ZORB" "CUSH-A-CLAMP" OR EQUAL (TYP)
- 4. UNISTRUT CHANNEL OR EQUAL (TYP)
- 5. TYPICAL REFRIGERANT PIPE HANGER RODS

TYPICAL FLEXIBLE DUCT SUPPORT

TYPICAL DUCT SLICE

6

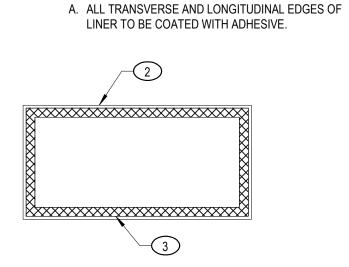
KEYNOTES:

1. 2' - 0" MAX

2. ATTACH TO STRUCTURE

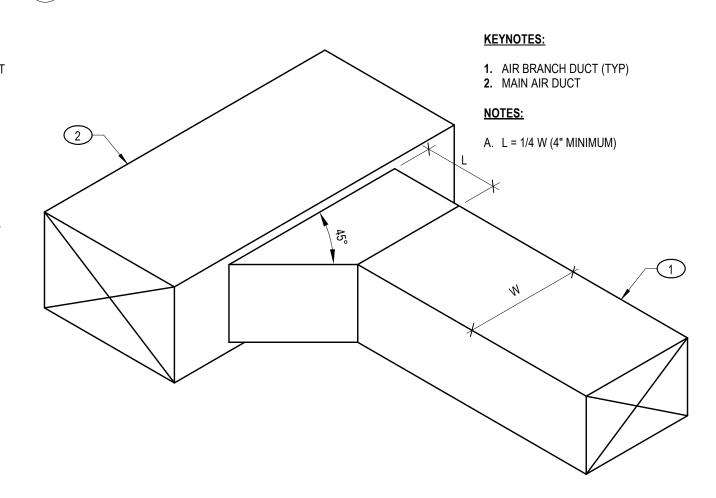
1" x 18" GAUGE BAND CLAMP
 MAX. SAG: 1/2" / FT. OF SUPPORT SPACING

- 1. 12" O.C. MAX IN DIRECTION OF AIR FLOW (IF DUCT IS FABRICATED ON AUTOMATED COIL LINE, THIS DEMENSION MAY BE INCREASED TO 14" MAX).
- 2. SHEET METAL DUCT. DUCT LINER.
- 4. NOT MORE THAN 2" FROM EDGE OF LINER. 5. FASTENERS (TYP). 6. 12" O.C. MAX (TYP).
- NOTES:



TYPICAL DUCT LINER 5 M5.10

TYPICAL BRANCH DUCT AND GRILLE



TYPICAL DUCT BRANCH CONNECTION



FACILITY

ISP NEW DISTRICT #6 F
1155 FOOTE DRIVE
IDAHO FALLS, IDAHO 83402

DPW 2251

REVISIONS

DRIVE AHO 83402

MECHANICAL

PROJECT NO. 21034 DATE: AUGUST 2024 DRAWN BY: JM CHECKED BY:

KEYNOTES: 1. ANGLE IRON UNISTRUT P1026 (TYP OF 4). 2. 18 GAUGE GALVANIZED SHEET METAL PROTECTIVE COVER. RUN FROM COND. UNIT TO BUILDING. 3. 1 5/8" x 1 5/8" UNISTRUT CHANNEL GALVANIZED (TYP). 4. CONCRETE. 5. SECURE REFRIGERANT PIPING TO SUPPORTS WITH "HYDRA-ZORB" "CUSH-A-CLAMP" OR EQUAL (TYP). 6. BUTT INSULATION OF SUCTION LINE AGAINST CLAMP ASSEMBLY. 7. UNISTRUT PIPE CLAMP (TYP).

KEYNOTES:

ROOF DECK

NOTES

INSTRUCTIONS

WITH INSULATION.

8. SUPPLY AND RETURN DUCT

. FLEX DUCT CONNECTION

CURB TO ROOF PER MANUFACTURERS

2. CONTINUOUS WOOD SHIM TO LEVEL CURB

PENETRATIONS (SUPPLY AND RETURN).

6. DUCT LINER PER SPECIFICATIONS AND GENERAL

7. FILL VOIDS WITH FIBERGLASS BATT INSULATION.

FOR HORIZONTAL DISCHARGE, FILL ENTIRE CURB

A. PROVIDE CONDENSATE DRAIN AND TRAP PER 1. ROOF CURB BY RTU MANUFACTURER. CONNECT

SUPPLIED DRAIN PAN AT POINT HIGHER THAN 5. EXPANSIVE FOAM TO BE USED TO SEAL DUCT

TYPICAL EXTERIOR REFRIGERANT PIPE SUPPORT

MANUFACTURER'S RECOMMENDATION. PROVIDE

WATER LEVEL DETECTION DEVICE IN

OVERFLOW RIM.

COMPLIANCE WITH UL 508. LOCATE WATER

LEVEL DETECTION DEVICE IN PRIMARY DRAIN

LINE, OVERFLOW DRAIN LINE, OR IN EQUIPMENT

PRIMARY DRAIN LINE CONNECTION AND BELOW

NOTES:

EXTERIOR WALL 6 HEAT PUMP UNIT____ GRADE

KEYNOTES:

1. ATTACH TO FAN

AND LENGTH OF CURB

2. ELASTOMERIC FOAM INSULATION FULL WIDTH

KEYNOTES (CONT.):

- 6. LOCATE UNIT AWAY FROM SLIDING SNOW AND ICE PATH WHERE APPLICABLE. 7. INSTALL REFRIGERANT PIPING PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. SUBMIT PIPING DIAGRAM INCLUDING ROUTING, SIZING, AND REQUIRED 2. FOR UNITS LARGER THAN 5-TONS, PROVIDE DEVICES TO ENGINEER FOR REVIEW FOR ALL UNITS LARGER THAN 5-TONS. AT A MINIMUM, AT COOLING COIL PROVIDE TXV AND SENSING BULB, SIGHT GLASS, AND FILTER DRIER FOR EACH CIRCUIT CLAMP SENSOR TO SUCTION LINE AND INSULATE. PROVIDE FLEXIBLE CONNECTION TO CONDENSING UNIT FOR ALL PIPING TO
- ALLOW FOR INDEPENDENT MOVEMENT OF UNIT. ALL COMPONENTS TO BE EASILY ACCESSED. 8. ROUTE PIPING FROM OUTDOOR UNIT TO CORRESPONDING INDOOR UNIT ABOVE CEILINGS AND WITHIN WALLS. COORDINATE ROUTING WITH ALL TRADES PRIOR TO INSTALLATION. 9. PROVIDE MINIMUM 3" OIL TRAP AT BASE OF EACH VERTICAL RISER.
- **KEYNOTES:**
- 1. MINIMUM 4" REINFORCED CONCRETE PAD. PAD TO EXTEND PAST EQUIPMENT 6" MINIMUM AND BE INSTALLED LEVEL. PROVIDE EQUIPMENT STANDS FOR VRF UNITS AS INDICATED ON DRAWINGS.
- SPRING ISOLATORS SECURED TO UNIT AND CONCRETE PAD TO MEET SEISMIC AND WIND REQUIREMENTS. FOR UNITS SMALLER THAN 5-
- TONS, PROVIDE MASON SMW 3/4" SUPER WAFFLE PAD OR EQUAL. SECURE UNIT TO CONCRETE PAD THROUGH WAFFLE PAD PER MANUFACTURER'S INSTRUCTIONS WITH MECHANICAL ANCHOR AND HOLD DOWN NUTS AND WASHERS TO MEET SEISMIC AND WIND

D B S

nbw.

FACILIT

9#

SP NEW DIS 1155 FOOTE I

DPW 2251

REVISIONS

PROJECT NO. 21034 DATE:

AUGUST 2024 DRAWN BY:

DRIVE AHO 83402

MECHANICAL

- REQUIREMENTS.
- 3. ALL REFRIGERANT SUCTION, LIQUID, AND HOT GAS PIPING LOCATED OUTDOORS TO BE INSULATED WITH A FULL ALUMINUM JACKET OR SHEET METAL COVER PER DETAIL. SUPPORT PIPING WITH UNISTRUT PIPE SUPPORTS AT 5'
- O.C. MINIMUM. 4. WHEN PIPING ROUTES VERTICALLY ON THE OUTSIDE OF AN EXTERIOR WALL MORE THAN 5' PROVIDE PAINTED SHEET METAL COVER (COLOR BY ARCHITECT). MOUNT COVER AND PIPING TO UNISTRUT SUPPORTS. SEAL COVER ON ALL SIDES TO EXTERIOR WALL AND SEAL PIPING PENETRATIONS IN TO COVER TO PREVENT ENTRY BY BIRDS AND INSECTS. 5. FLASH AND SEAL PENETRATIONS THROUGH

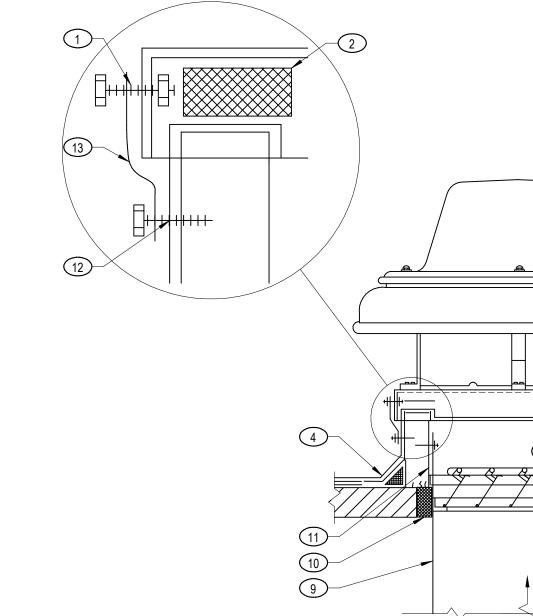
EXTERIOR WALL AND PROVIDE WALL SLEEVE

TYPICAL PAD-MOUNTED DX CONDENSING UNIT / HEAT PUMP UNIT DETAIL

- NOTES: A. SEAL AND CAULK ALL DUCT CONNECTIONS. B. INSTALL REFRIGERANT LINES PER MANUFACTURERS INSTALLATION INSTRUCTIONS. 3. SHEET METAL RETURN AIR PLENUM AND ROUTE REFRIGERANT LINES FROM INDOOR UNIT
- TO OUTDOOR UNIT. C. REFER TO MANUFACTURERS INSTALLATION INSTRUCTIONS FOR ADDITIONAL REQUIREMENTS.

KEYNOTES:

- 1. DUCT TRANSITION AS REQUIRED 2. FABRIC DUCT FLEXIBLE CONNECTION.
- MOUNTING STAND. SLOTTED CHANNEL FRAME SECURED TO FAN COIL AND FLOOR. 4. FILTER CABINET BY UNIT MANUFACTURER. PROVIDE MINIMUM MERV 8 FILTER UNLESS NOTED OTHERWISE. 5. PROVIDE BOTTOM AND SIDE RETURN TO
- ACHIEVE SCHEDULED AIRFLOW (PER MANUFACTURER). 6. ROUTE TRAPPED CONDENSATE PIPING TO NEAREST FLOOR DRAIN / SINK UNLESS NOTED OTHERWISE. PROVIDE CONDENSATE PUMP AS
- NECESSARY. 7. OUTSIDE AIR VENTILATION DUCT. PROVIDE 24 V MOTORIZED DAMPER, TRANSFORMER, AND MANUAL DAMPER. INTERLOCK DAMPER TO OPEN DURING OCCUPIED HOURS. BALANCE ADJACENT MANUAL DAMPER TO PROVIDE SCHEDULE OUTSIDE AIR AS NOTED IN EQUIPMENT SCHEDULE.



COIL 1 FAN RA SECTION SECTION 2

TYPICAL ROOFTOP UNIT

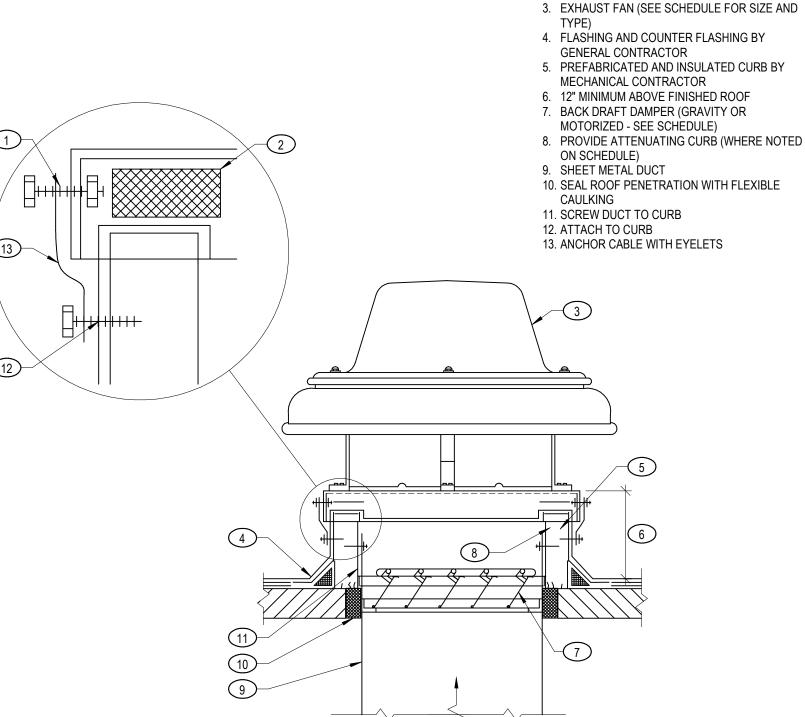
3 TYPICAL ROOF EXHAUST FAN

TYPICAL VERTICAL FAN COIL/FURNACE INSTALLATION

M5.11 M1.0.06



PROJECT #24.3008 C23



CHECKED BY: DRAWING NO.: OAON, COOK, SWEGON, TEMPEFF, TEMTROL, AND DAIKIN ARE APPROVED MANUFACTURERS.

WALL COMERUCTION 18 GAUGE GALVANIZED STEEL WITH 1 INCH FSK INSULATION, HINGED ACCESS DOORS, FAN ISOLATION, SUPPLY AND EXHAUST FAN VFD, ENTHALPY WHEEL WITH VFD, MERV 11 EXHAUST FILTER, MERV 13 SUPPLY THE REPORT OF THE REPORT OF THE PROPERTY OF TH

REFER TO SEQUENCE OF OPERATION FOR CONTROL REQUIREMENTS. MANUFACTURER TO ENSURE DEFROST STRATEGY IS ACCEPTABLE AT ALL CONDITIONS.

									ROO	FTOP	UNIT	(RTU)											
			OUTSIDE AIR	SUPPLY	ESP		COOLIN	IG COIL					GAS	S HEATING	G			ELECT	RICAL		UNIT I	DIMENSIO	ONS (IN)	UNIT WEIG
MARK	MANUFACTURER	MODEL NO.	CFM	CFM	(IN WC)	EAT (db °F)	EAT (wb °F)	LAT (db °F)	LAT (wb °F)	STAGES	SEER	EER	INPUT BTU/HR	EAT (db °F)	LAT (db °F)	% EFF	MCA	МОСР	VOLT	PH	LENGTH	WIDTH		(LBS)
RTU-1	DAIKIN	DFG	250	2000	0.50	77.0	62.0	55.0	55.0	1	14		140,000	60.0	115	80	29.6	45.0	208	3	74	48	40	550
RTU-2	DAIKIN	DFG	250	2000	0.50	77.0	62.0	55.0	55.0	1	14		140,000	60.0	115	80	29.6	45.0	208	3	74	48	40	550
RTU-3	DAIKIN	DFG	250	2400	0.50	77.0	62.0	55.0	55.0	2		11.2	140,000	62.0	108	80	31.6	45.0	208	3	74	48	44	630

- CARRIER, DAIKIN, TRANE AND YORK ARE APPROVED MANUFACTURERS. REFER TO MANUFACTURER AND MODEL FOR BASIS OF DESIGN. PROVIDE THE FOLLOWING: THROUGH-THE-BASE ELECTRICAL WITH FACTORY MOUNTED DISCONNECT, CONVENIENCE OUTLET FOR FIELD WIRE, VIBRATION ISOLATION CURB, FIXED ENTHALPY OSA ECONOMIZER, BAROMETRIC RELIEF,
- COMPLETE INTEGRAL CONTROL, ROOF CURB, AND WITH AN ECM MOTOR. PROVIDE WITH 2 STAGES OF HEATING.
- PROVIDE WITH MIN MERV-8 FILTER. ESP DOES NOT INCLUDE FILTER PD.
- PROVIDE WITH FACTORY MOUNTED SMOKE DETECTOR IN AIR STREAM FOR UNIT SHUTDOWN (LOCATION PER LOCAL JURISDICTION). PROVIDE RELAY FROM SMOKE DETECTOR TO FIRE CONTROL PANEL. PROVIDE ECONOMIZER FAULT DETECTION AND DIAGNOSTICS (FDD).
- PROVIDE WITH FOIL-FACED FIBERGLASS CABINET INSULATION OR CLOSED-CELL ELASTOMERIC INSULATION.
- REFER TO SEQUENCE OF OPERATIONS.

				V	RF OUTDO	OR UN	NIT (HP)									
MARK	MANUFACTURER	MODEL	CORRESPONDING	TYPE	NOM COOLING	EER	HEATING (MBH)	COP @		ELECTR				IMENSIC	NS (IN)	OPERATING WEIGH
			INDOOR UNIT	=	(MBH)			47°F	MCA	MOCP	VOLT	PH	D	W	H	(LBS)
HP-1A	DAIKIN	RELQ	BS-1	HEAT RECOVERY	96	11.2	108	3.5	76.5	80	208	3	55	71	94	950
HP-1B	DAIKIN	RELQ	BS-1	HEAT RECOVERY	96	11.2	108	3.5	76.5	80	208	3	55	71	94	950
HP-2A	DAIKIN	RELQ	BS-2	HEAT RECOVERY	120	11.0	135	3.4	83.4	90	208	3	55	71	94	950
HP-2B	DAIKIN	RELQ	BS-2	HEAT RECOVERY	120	11.0	135	3.4	83.4	90	208	3	55	71	94	950
HP-3A	DAIKIN	RELQ	BS-3	HEAT RECOVERY	120	11.0	135	3.4	83.4	90	208	3	55	71	94	950
HP-3B	DAIKIN	RELQ	BS-3	HEAT RECOVERY	120	11.0	135	3.4	83.4	90	208	3	55	71	94	950
HP-4A	DAIKIN	RELQ	BS-4	HEAT RECOVERY	96	11.2	108	3.5	76.5	80	208	3	55	71	94	950
HP-4B	DAIKIN	RELQ	BS-4	HEAT RECOVERY	96	11.2	108	3.5	76.5	80	208	3	55	71	94	950

MARK

FC-4

BS-4

MANUFACTURER

DAIKIN

INDOOR UNIT RECIEVES POWER FROM OUTDOOR UNIT

MANUFACTURER | CORR |

BMS READY TERMINAL STRIP. ALL CONTROL TO BE BY BMS.

DAIKIN DAIKIN

DAIKIN

PH-2

LV-A2

SAMSUNG, DAIKIN, TRANE, MITSUBISHI ARE APPROVED MANUFACTURERS.

MANUFACTURER

COOK

COOK

MODEL

CONDENSATE PUMP. TOUCHSCREEN PROGRAMMABLE CONTROLLER FOR EACH UNIT.

- TRANE, SAMSUNG, DAIKIN, AND MITSUBISHI ARE APPROVED MANUFACTURERS. REFER TO MANUFACTURER AND MODEL FOR BASIS OF DESIGN. MAX CAPACITY RATIO IS 110%.
- OUTDOOR COOLING DB (°F) = 100, OUTDOOR HEATING DB (°F) = -13.
- HAIL GUARDS, ISOLATION VALVES ON EACH MODULE, AND 24" STANDS FOR EACH OUTDOOR UNIT LOW AMBIENT COOLING KIT TO -10 DEGREES FOR ALL UNITS.
- LOW AMBIENT HEAT PUMP HEATING TO -22 DEGREES
- LOW AMBIENT COOLING KIT DIMENSIONS INCLUDED IN OVERALL UNIT DIMENSIONS.

			AIR	DEVICE S	CHEDUI	LE			
MARK	FLOW TYPE	FACE SIZE	NECK SIZE	CFM RANGE	MAX T.P.	N.C. MAX	THROW	MODEL	NOTES
		45" 45"	6" Ø	95 - 140	0.08	19	8 - 9		
		15" x 15"	8" Ø	141 - 185	0.08	17	9 - 11		
1	LOUVERED FACE CEILING SUPPLY		8" Ø	186 - 245	0.08	21	11 - 13	TITUS TDC / TDC-AA***	1, 2, 3, 4, 5
	OLILING GOIT LT	18" x 18"	10" Ø	246 - 305	0.08	19	12 - 14	150-744	
			12" Ø	306 - 410	0.10	20	12 - 15		
		8" x 8"	6"x 6"	0-150	0.08	19	11-18		
		10" x 8"	8" x 6"	151 - 210	0.08	21	13-21		
		12" x 8"	10" x 6"	211 - 270	0.08	23	20 - 23		
		14" x 8"	12" x 6"	271 - 330	0.08	23	23 - 26		
8	WALL SUPPLY	16" x 8"	14" x 6"	331 - 385	0.08	24	26 - 28	TITUS 272R	1, 2, 4, 6
		14" x 10"	12" x 8"	386 - 455	0.08	25	27 - 30		
		14" x 12"	12" x 10"	456 - 505	0.06	22	30 - 32		
		14" x 14"	12" x 12"	506 - 615	0.06	23	32 - 35		
		16" x 16"	14" x 14"	616 - 855	0.06	24	35 - 42		
		14" x 5"	12" x 3"	40 - 70	0.10	14	7 - 9		
		14" x 6"	12" x 4"	71 - 125	0.10	15	9 - 11		
9	SPIRAL DUCT	14" x 8"	12" x 6"	126 - 195	0.10	17	11 - 14	TITUS S300FS	2, 4, 6, 7
9	MOUNTED SUPPLY	14" x 10"	12" x 8"	196 - 260	0.10	18	14 - 16	11103 3300F3	2, 4, 0, 1
		14" x 12"	12" x 10"	261 - 330	0.10	19	16 - 18		
		14" x 14"	12" x 12"	331 - 440	0.10	20	18 - 21		
		12" x 8"	10" x 6"	0 - 205	0.10	20			
	WALL DETUDNIOD	14" x 10"	12" x 8"	206 - 300	0.10	20			
10	WALL RETURN OR EXHAUST	20" x 14"	18" x 12"	301 - 745	0.10	20	N/A	TITUS 355RL	1, 2
	2,41,1001	24" x 18"	22" x 16"	746 - 1130	0.09	20			
		24" x 22"	22" x 20"	1131 - 1450	0.08	20			
		8" x 8"	6" x 6"	0 - 135	0.08	17			
		12" x 12"	10" x 10"	136 - 415	0.08	18			
11	CEILING EGGCRATE RETURN OR	16" x 16"	14" x 14"	416 - 855	0.08	19	N/A	TITUS 50F	1, 2, 3
11	EXHAUST	20" x 20"	18" x 18"	856 - 1450	0.08	19	IN/A	11100 001	1, 2, 0
		24" x 12"	22" x 10"	0 - 960	0.08	19			
		24" x 24"	22" x 22"	961 - 2200	0.08	20			
		8" x 8"	6" x 6"	0 - 80	0.03	10			
		12" x 12"	10" x 10"	81 - 240	0.03	10			
12	CEILING EGGCRATE	16" x 16"	14" x 14"	241 - 495	0.03	10	N/A	TITUS 50F	1, 2, 3
12	TRANSFER	20" x 20"	18" x 18"	496 - 835	0.03	10		11100 301	1, 2, 0
		24" x 12"	22" x 10"	0 - 555	0.03	10			
		24" x 24"	22" x 22"	556 - 1260	0.03	10			
		22" x 12"	20" x 10"	0 - 670	0.08	16	18 - 46		
13	DRUM LOUVER	22" x 14"	20" x 12"	671 - 800	0.08	19	27 -53	TITUS DL	1, 2, 4
		10" x 10"	6" Ø	61 - 110	0.2	20			
			6" Ø	0 - 200	0.07	15	2 - 8		
			8" Ø	201 - 315	0.08	16	7 - 9		
15	SWIRL FACE	24"x24"	10" Ø	316 - 400	0.08	15	8 - 9	NAILOR TWR	1, 2, 4
			12" Ø	401 -500	0.08	16	10 - 13		
			14" Ø	501 - 650	0.08	23	13 - 14		

*REFER TO FLOOR PLANS FOR THROW PAT	TERN INDICATED BY A	ARROWS (3-WAY, 2-WA	Y, OR 1-WAY).	SUPPLY AIR
		•	•	

DEVICE INTENDED TO BE 4-WAY THROW IF ARROWS ARE NOT PRESENT. **NOT ALL AIR DEVICES IN THE AIR DEVICE SCHEDULE ARE USED.

1. PROVIDE FRAME COMPATIBLE WITH CEILING OR WALL TYPE. VERIFY FRAME TYPE OF ALL AIR DEVICES WITH ARCHITECTURAL

REFLECTED CEILING PLAN BEFORE ORDERING. COLOR BY ARCHITECT.

- 2. TITUS, CARNES, NAILOR, PRICE, METALAIRE, AND KRUEGER ARE APPROVED MANUFACTURERS. REFER TO MANUFACTURER AND MODEL FOR BASIS OF DESIGN.
- 3. ONLY 24" x 24" OR 24" x 12" FACE SIZE AIR DEVICES TO BE USED IN LAY-IN GRID CEILINGS. VERIFY CEILING TYPE WITH
- ARCHITECTURAL REFLECTED CEILING PLAN.
- . FACE SIZE TO CORRESPONDING CORE SIZE 15"x15" FACE : 9"x9" CORE, 18"x18" FACE: 12"x12" CORE, 24"x24" FACE: 18"x18" CORE.
- DOUBLE DEFLECTION GRILLE. PERFORMANCE IS BASED ON 22.5 DEGREE DEFLECTION.
- . PROVIDE ASD-AIR SCOOP DAMPER/ EXTRACTOR. MAX DUCT DIAMETER = 36". MIN DUCT DIAMETER: NECK SIZE HEIGHT 6":3", 8":4", 10":6", 12":8", 14":10", 16":12".

THROW VALUE RANGE IS FOR TERMINAL VELOCITIES OF 50 FPM BASED ON THE CFM RANGE. THROW VALUES BASED ON ISOTHERMAL CONDITIONS.

								, ,											
MARK	BUILDING	LOCATION		MANUFACTURER	MODEL	TYPE	AIRFLOW CFM	ESP (IN WC)	SOUND LEVEL	DAMPER GRAVITY OR	El	_ECTRIC#	AL	ECM MOTOR	CONTROL DESCRIPTION		PENING N)	OPERATING WEIGHT	
		RM NAME	RM#				CFIVI	(IN WC)	(SONE)	MOTOR	HP	VOLT	PH	MOTOR	DESCRIPTION	L	W	(LBS)	
EF-1	MAIN	ROOF	N/A	COOK	ACRUD	UPBLAST	745	0.5	11	GRAVITY	0.33	120	1	Yes	BMS	13	13	35	1
EF-2	MAIN	ROOF	N/A	COOK	ACED	DOWNBLAST	100	0.4	6	GRAVITY	0.13	120	1	Yes	BMS	18	18	25	
EF-A1	ASSET	TOILET ROOM	207	COOK	GC	CEILING CABINET	150	0.5	3	GRAVITY	0.20	120	1	Yes	BMS			20	
EF-A2	ASSET	DRYING ROOM	208	COOK	GC	CEILING CABINET	250	0.5	8	GRAVITY	0.20	120	1	Yes	BMS			20	
EF-A3	ASSET	ARMORER	204	COOK	GC	CEILING CABINET	550	0.5	4	GRAVITY	0.60	120	1	Yes	BMS			35	
NOTES:		_		_							·		·						

EXHAUST FAN (EF)

• COOK, CAPTIVEAIRE, GREENHECK, AND PANASONIC ARE APPROVED MANUFACTURERS. REFER TO MANUFACTURER AND MODEL FOR BASIS OF DESIGN.

- PROVIDE WITH VIBRATION ISOLATION KIT AND FAN SPEED CONTROLLER. REFER TO SEQUENCE OF OPERATION FOR REQUIREMENTS.
- ALUMINUM BIRD SCREEN AND ROOF CURB (UPBLAST, DOWNBLAST)

						ELECTRI	C HEATER	(EH)							
	LOCATION MANUFACTURER MODEL NO. TYPE ARRANGEMENT EAT(db)(°F) HEATING ELEMENT UNIT DIMENSIONS OPERATING LENGTH WIDTH HEIGHT A.F.F (IN) WEIGHT														
MARK			MANUFACTURER	MODEL NO.	TYPE	ARRANGEMENT	EAT(db)(°F)	POWER (W)	VOLT	PH	LENGTH		HEIGHT	A.F.F (IN)	WEIGHT
	RM NAME	RM#						. •=()	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	• • • •	(IN)	(IN)	(IN)		(LBS)
EH-1	CORRIDOR	132	QMARK	CWH	WALL	RECESSED	70	1500	120	1	16	4	18	10	25
EH-2	CORRIDOR	105	QMARK	CWH	WALL	RECESSED	70	1500	120	1	16	4	18	10	25
EH-3	VESTIBULE	158	QMARK	CWH	WALL	RECESSED	70	4000/2000	208	1	16	4	18	10	25

OPERATING

WEIGHT (LBS)

UNIT DIMENSIONS

VOLT PH MCA MOCP D W H

MCA | MOCP | VOLT | PH | D | W | H | (LBS)

15.0 | 208 | 1 | 19 | 33 | 11

1.00 | 15.0 | 208 | 1 | 19 | 33 | 11 | 105

 1.00
 15.0
 208
 1
 19
 33
 11

 1.00
 15.0
 208
 1
 19
 33
 11

HEIGHT (IN)

20.00

20.00

(SQ FT)

1.03

OPERATING WEIGHT

(LBS)

DIMENSIONS (IN) OPER W

DIMENSIONS (IN) OPER WT

THROAT DIMENSIONS (IN)

LENGTH

36

WIDTH HEIGHT

12 20

WIDTH

18

MIN FREE AREA PRESSURE DROP DIMENSIONS (IN)

(IN W.C.)

0.10

0.11

SPLIT SYSTEM INDOOR UNIT (FC)

PROVIDE WITH CONTROLLER AND BACNET PROTOCAL TO INTEGRATE WITH BMS. REFER TO SEQUENCE OF OPERATION FOR REQUIREMENTS. PROVIDE WITH

NG HEATING

CORRESPONDING

OUTDOOR UNIT

DAIKIN, CARRIER, AND MITSUBISHI ARE APPROVED MANUFACTURERS. REFER TO MANUFACTURER AND MODEL FOR BASIS OF DESIGN.

TRANE, CARRIER, DAIKIN, AND YORK ARE APPROVED MANUFACTURERS. REFER TO MANUFACTURER AND MODEL FOR BASIS OF DESIGN.

FC-1.17, 1.22 - 1.29

FC-2.11 - 2.18

FC-2.21 - 28

TRE

RUSKIN, GREENHECK, UNITED ENERTECH, AND COOK ARE APPROVED MANUFACTURERS.

ELF375DX

RUSKIN ELF375DX 800

PROVIDE WITH BIRD SCREEN AND ROOF CURB. COLOR BY ARCHITECT.

PROVIDE WITH BIRD SCREEN. COLOR BY ARCHITECT.

ESP INCLUDES EXTERNAL DUCTING ONLY. ESP DOES NOT INCLUDE PRESSURE DROP THROUGH EVAPORATOR COIL, HEAT EXCHANGER, OR AIR FILTER. PROVIDE CONCENTRIC VENT KIT, HIGH ALTITUDE ACCESSORIES, RETURN AIR BASE, FILTER CABINET, CONDENSATE NEUTRALIZATION KIT, CONDENSATE PUMP,

VRF BRANCH SELECTION BOX (BS)

MAX CAPACITY PER PORT IS 54 MBH. MAX CAPACITY PER MSB IS 290 MBH. FULL PORT ISOLATION VALVES ON EACH PORT. EACH BS TO HAVE AT MINIMUM

(CFM)

2,000

(CFM)

250

2,480

LOUVERED PENTHOUSES (PH)

AIRFLOW | PRESSURE DROP

LOUVER (LV)

RUSKIN, GREENHECK, NAILOR, AMERICAN WARMING & VENTILATION CO., AND ARROW UNITED ARE APPROVED MANUFACTURERS.

VELOCITY

(FPM)

778

(IN W.C.)

0.08

0.08

COOLING

915 | 24,860 Btu/h | 208 | 1

915 24,860 Btu/h

MIN SEN VOLT

ELECTRICAL

208

- QMARK, INDEECO, AND MARKEL ARE APPROVED MANUFACTURERS. REFER TO MANUFACTURER AND MODEL FOR BASIS OF DESIGN.
- PROVIDE WITH SURFACE MOUNTING KIT FOR CMU OR CONCRETE WALL INSTALLATIONS. REMOTE SENSOR CONTROL. SENSOR BY BMS AND RELAY BY HEATER MANUFACTURER.

l																	
					GAS FIRE	D UNI	T HEAT	ER (C	SUH)								
							TING CAPA	•			ELE	CTRICA	L	DIME	NSIONS	S (IN)	
MARK	MANUFACTURER & MODEL	BUILDING	CFM	MOUNTING	MOUNT HEIGHT (FT)	INPUT (MBH)	MIN OUTPUT (MBH)	% EFF	# STAGES	CA/VENT SIZE (IN)	НР	VOLT	PH	L	w	Н	OPER WT (LBS)
GUH-A1	REZNOR UDXC	ASSETS	1345	CEILING	14	105	87	83	2	4/4	0.25	120	1	29	27	24	150
GUH-A2	REZNOR UDXC	ASSETS	1345	CEILING	14	105	87	83	2	4/4	0.25	120	1	29	27	24	150
GUH-A3	REZNOR UDXC	ASSETS	1345	CEILING	14	105	87	83	2	4/4	0.25	120	1	29	27	24	150
NOTEC:																	

REZNOR, TRANE, AND MODINE ARE APPROVED MANUFACTURERS, REFER TO MANUFACTURER AND MODEL FOR BASIS OF DESIGN. PROVIDE WITH MOUNTING BRACKETS, CHAIN, SWAY BRACE, 30° FLOW NOZZLE, AND CONCENTRIC ADAPTER. REFER TO SEQUENCE OF OPERATION FOR CONTROL REQUIREMENTS.

					S	PLIT S	YSTEM	OU	TD	OOR U	NIT									
MARK	MANUFACTURER	MODEL	BUILDING	CORRESPONDING	TYPE	COOLING OUTDOOR	NOM COOLING	SEER	FFR	HEATING OUTDOOR	NOM HEATING	СОР		ELECTR	ICAL		UNIT	DIMEN (IN)	SIONS	OPERATING WEIGHT
	MAROTAGIORER	MODEL	Болевию	INDOOR UNIT	1112	AMBIENT (DB °F)	CAP (MBH)		LLIX	AMBIENT (DB °F)	CAP (MBH)		MCA	MOCP	VOLT	PH	L	w	Н	(LBS)
CU-3	DAIKIN	RK	MAIN	FC-3	CONDENSING	97.0	36	16.0	16.0				16.6	20	208	1	13	34	29	135
CU-4	DAIKIN	RK	MAIN	FC-4	CONDENSING	97.0	36	16.0	16.0				16.6	20	208	1	13	34	29	135
CU-A	DAIKIN	DZ	ASSET	F-A	CONDENSING	97.0	36	17.0	17.0				23.9	25	208	1	14	36	27	150
HP-5	AAON	CFA	MAIN	ERV-1	AIR SOURCE HEAT PUMP	97.0	108		12.2	2.0	51	5.3	38.0	50	208	3	94	47	57	1,060

- DAIKIN, CARRIER, AND MITSUBISHI ARE APPROVED MANUFACTURERS. REFER TO MANUFACTURER AND MODEL FOR BASIS OF DESIGN.
- PROVIDE HAIL GUARD KIT.
- PROVIDE LOW AMBIENT COOLING KIT TO -10 DEGREES FOR RK MODELS. CFA UNITS TO HAVE VARIABLE SPEED COMPRESSOR.

	OF A CHAILO TO THAT	- V/ II (II/ IDEE O	LEB COMITTECCOTA													
				V	RF INDO	OOR L	INIT (FC)									
MADIZ	MANUEACTURER	MODEL	CORRESPONDING	TVDE	AIRF	LOW	COOLING	HEATING		ELECT	RICAL		UNIT	DIMEN (IN)	SIONS	OPERATING WEIGHT
MARK	MANUFACTURER	MODEL	OUTDOOR UNIT	TYPE	CFM	ESP (IN WC)	MIN SEN	MIN CAPACITY	MCA	МОСР	VOLT	PH	L	W	Н	(LBS)
FC-1.11	DAIKIN	FXZQ	HP-1	CASSETTE	305	,	3,960 Btu/h	4,312 Btu/h	0.30	15	208	1	22	22	10	35
FC-1.12	DAIKIN	FXZQ	HP-1	CASSETTE	305		3,410 Btu/h	2,449 Btu/h	0.30	15	208	1	22	22	10	35
FC-1.13	DAIKIN	FXSQ	HP-1	DUCTED	740	0.50	11,253 Btu/h	18,618 Btu/h	1.80	15	208	1	32	40	10	85
FC-1.14	DAIKIN	FXZQ	HP-1	CASSETTE	405		6,226 Btu/h	1,449 Btu/h	0.40	15	208	1	22	22	10	40
FC-1.15	DAIKIN	FXMQ	HP-1	DUCTED	2,045	0.60	37,477 Btu/h	16,870 Btu/h	9.00	15	208	1	43	54	18	305
FC-1.16	DAIKIN	FXMQ	HP-1	DUCTED	2,045	0.60	30,943 Btu/h	14,662 Btu/h	9.00	15	208	1	43	54	18	305
FC-1.17	DAIKIN	FXMQ	HP-2	DUCTED	2,045	0.60	33,990 Btu/h	5,934 Btu/h	9.00	15	208	1	43	54	18	305
FC-1.21	DAIKIN	FXZQ	HP-1	CASSETTE	300		1,793 Btu/h	437 Btu/h	0.30	15	208	1	22	22	10	35
FC-1.22	DAIKIN	FXSQ	HP-2	DUCTED	335	0.50	5,720 Btu/h	1,299 Btu/h	0.80	15	208	1	32	22	10	55
FC-1.23	DAIKIN	FXZQ	HP-2	CASSETTE	350		5,852 Btu/h	3,222 Btu/h	0.40	15	208	1	22	22	10	40
FC-1.24	DAIKIN	FXZQ	HP-2	CASSETTE	300		2,046 Btu/h	621 Btu/h	0.30	15	208	1	22	22	10	35
FC-1.25	DAIKIN	FXSQ	HP-2	DUCTED	1,130	0.50	19,041 Btu/h	11,569 Btu/h	2.50	15	208	1	32	55	10	100
FC-1.26	DAIKIN	FXZQ	HP-2	CASSETTE	300		2,585 Btu/h	2,944 Btu/h	0.30	15	208	1	22	22	10	35
FC-1.27	DAIKIN	FXSQ	HP-2	DUCTED	600	0.50	9,592 Btu/h	3,588 Btu/h	1.60	15	208	1	32	40	10	80
FC-1.28	DAIKIN	FXSQ	HP-2	DUCTED	1,130	0.50	22,220 Btu/h	13,880 Btu/h	2.50	15	208	1	32	55	10	100
FC-1.29	DAIKIN	FXAQ	HP-2	WALL	635		24,860 Btu/h	,	0.60	15	208	1	10	42	12	30
FC-2.11	DAIKIN	FXZQ	HP-3	CASSETTE	405		6,171 Btu/h	4,450 Btu/h	0.40	15	208	1	22	22	10	40
FC-2.12	DAIKIN	FXSQ	HP-3	DUCTED	810	0.50	14,432 Btu/h	1,713 Btu/h	1.80	15	208	1	32	40	10	85
FC-2.13	DAIKIN	FXZQ	HP-3	CASSETTE	510		9,009 Btu/h	5,785 Btu/h	0.60	15	208	1	22	22	10	45
FC-2.14	DAIKIN	FXSQ	HP-3	DUCTED	280	0.50	3,685 Btu/h	851 Btu/h	0.80	15	208	1	32	22	10	55
FC-2.15	DAIKIN	FXMQ	HP-3	DUCTED	2,045	0.60	29,073 Btu/h	26,231 Btu/h	9.00	15	208	1	43	54	18	305
FC-2.16	DAIKIN	VMD	HP-3	DUCTED	1,305	0.50	24,860 Btu/h	5,589 Btu/h	2.80	15	208	1	32	55	10	105
FC-2.17	DAIKIN	FXSQ	HP-3	DUCTED	530	0.50	7,260 Btu/h	1,702 Btu/h	1.40	15	208	1	32	28	10	60
FC-2.18	DAIKIN	FXAQ	HP-3	WALL	635		24,860 Btu/h	34,100 Btu/h	0.60	15	208	1	10	42	12	30
FC-2.21	DAIKIN	FXSQ	HP-4	DUCTED	530	0.50	6,930 Btu/h	1,725 Btu/h	1.40	15	208	1	32	28	10	60
FC-2.22	DAIKIN	FXZQ	HP-4	CASSETTE	350		5,335 Btu/h	3,622 Btu/h	0.40	15	208	1	22	22	10	40
FC-2.23	DAIKIN	FXSQ	HP-4	DUCTED	810	0.50	16,357 Btu/h	18,124 Btu/h	1.80	15	208	1	32	40	10	85
FC-2.24	DAIKIN	FXSQ	HP-4	DUCTED	810	0.50	16,467 Btu/h	8,165 Btu/h	1.80	15	208	1	32	40	10	85
FC-2.25	DAIKIN	FXSQ	HP-4	DUCTED	810	0.50	16,500 Btu/h	8,165 Btu/h	1.80	15	208	1	32	40	10	85
FC-2.26	DAIKIN	FXSQ	HP-4	DUCTED	1,130	0.50	17,050 Btu/h	14,490 Btu/h	2.50	15	208	1	32	55	10	100
FC-2.27	DAIKIN	FXSQ	HP-4	DUCTED	810	0.50	14,322 Btu/h	8,924 Btu/h	1.80	15	208	1	32	40	10	85
	5, 41411			200122	0.0	0.00	11,022 5(0/11	0,021 Dtd/11		10		<u> </u>	1	10	1.0	+ 30

FC-2.28

- TRANE, SAMSUNG, DAIKIN, AND MITSUBISHI ARE APPROVED MANUFACTURERS. REFER TO MANUFACTURER AND MODEL FOR BASIS OF DESIGN. COOLING INDOOR TEMPERATURE = 75/63. HEATING INDOOR
- PROVIDE A WATER LEVEL DETECTION DEVICE CONFORMING TO UL 508 AT THE EQUIPMENT OVERFLOW DRAIN CONNECTION FOR ALL DUCTED UNITS.. WATER LEVEL DETECTION DEVICE TO SHUTDOWN EQUIPMENT UPON DETECTION OF WATER.
- PROVIDE WITH FILTER BOX FOR DUCTED UNITS

FXAQ

PROVIDE WITH CONTROLLER AND BACNET PROTOCAL TO INTEGRATE WITH BMS. REFER TO SEQUENCE OF OPERATION FOR REQUIREMENTS. PROVIDE WITH CONDENSATE PUMP, TOUCHSCREEN PROGRAMMABLE CONTROLLER FOR EACH UNIT.



PROJECT #24.3008 C23

FACILIT 9# SP NEW DIS 1155 FOOTE DIDAHO FALLS, IDA

<u>S</u>

225

DPW

REVISIONS

0.60 15 208 1 10 42 12

PROJECT NO.

DATE: AUGUST 2024 DRAWN BY: **CHECKED BY:**

UMC/IMC Ventilation, Exhaust, & Pressure Balance Table

	Room #	Room name	General Occupancy Type	Specific Occupancy Type	Area (FT²)	Total Ventilation (CFM)	Total Exhaust (CFM)
	101	INTERVIEW	Offices	Office spaces	93	20	0
	102	TOILET ROOM	Public_spaces	Toilet rooms - public (continuous exhaust)	61	0	50
	103	INTERVIEW	Offices	Office spaces	93	20	0
	104	SECURED WAITING	Offices	Main entry lobbies	149	25	0
	105	CORRIDOR	Public_spaces	Corridors	263	20	0
	106	STORAGE	Retail_stores_sales_floors_and_showroom_floors	Storage rooms	131	20	0
	107	MONITORING	Offices	Office spaces	318	30	0
	108	TRAINING	Offices	Conference rooms	1081	305	0
	109	SERGEANT	Offices	Office spaces	116	20	0
	110	INVESTIGATIONS	Offices	Office spaces	2800	180	0
	111	SERGEANT	Offices	Office spaces	117	20	0
	112	ADMIN	Offices	Office spaces Office spaces	117	20	0
	114	SERGEANT	Offices	Office spaces Office spaces	121	15	0
	115 116	LIEUTENANT BRIEFING	Offices		175	15	0
			Offices	Conference rooms Office spaces	449	130	0
	117 118	CAPTAIN SERGEANT	Offices Offices	Office spaces Office spaces	292	25 15	0
	119	SERGEANT SERGEANT	Offices	Office spaces Office spaces	118 119	15 15	0
	120	PATROL	Offices	Office spaces	2761	235	0
	121	SERGEANT	Offices	Office spaces	121	235 15	0
	122	SERGEANT	Offices	Office spaces	120	15	0
_	123	SERGEANT	Offices	Office spaces	120	15	0
BUILDING ERV	124	SERGEANT	Offices	Office spaces	125	15	0
Ш	125	LIEUTENANT	Offices	Office spaces	148	15	0
9	126	COMM.VECHICLE SAFETY DIVISION	Offices	Office spaces	250	25	0
	127	OFFICE	Offices	Office spaces	150	15	0
5	129	TOILET ROOM	Public_spaces	Toilet rooms - public (continuous exhaust)	68	0	50
5	130	TOILET ROOM	Public_spaces	Toilet rooms - public (continuous exhaust)	67	0	50
Ω	131	CORRIDOR	Public_spaces	Corridors	1000	60	0
MAIN	132	CORRIDOR	Public_spaces	Corridors	619	40	0
⋖	135	CHANGING	Public_spaces	Shower room (per shower head, continuous exhaust)	119	0	130
≥	136	CHANGING	Public_spaces	Shower room (per shower head, continuous exhaust)	117	0	130
	137	CHANGING	Public_spaces	Shower room (per shower head, continuous exhaust)	116	0	130
	138	WEIGHT ROOM	Sports_and_amusement	Health club/weight room	1906	375	0
	139	CHANGING	Public_spaces	Shower room (per shower head, continuous exhaust)	73	0	100
	140	BULK EVIDENCE	Retail_stores_sales_floors_and_showroom_floors	Storage rooms	1124	135	0
	141	EVIDENCE PROCESSING	Offices	Office spaces	303	30	0
	142	EVIDENCE TECH	Offices	Office spaces	136	15	0
	146	BREAK ROOM	Food_and_beverage_service	Dining rooms	545	160	60
	147	TOILET ROOM	Public_spaces	Toilet rooms - public (continuous exhaust)	61	0	50
	148	ARMORER PECONDS AREA	Offices Retail stores sales floors and showroom floors	Office spaces	294	25	0
	149	RECORDS AREA		Storage rooms Office spaces	147	20	0
	151 152	SUPERVISOR FRONT OFFICE	Offices Offices	Office spaces Office spaces	110	15 80	0 50
	153	JANITORIAL	Offices Public_spaces	Toilet rooms - public (continuous exhaust)	911 45	80 0	50
	154	PUBLIC RR	Public_spaces	Toilet rooms - public (continuous exnaust) Toilet rooms - public (continuous exhaust)	45 68	0	50
	155	PUBLIC RR	Public_spaces	Toilet rooms - public (continuous exhaust) Toilet rooms - public (continuous exhaust)	69	0	50
	156	STORAGE	Retail_stores_sales_floors_and_showroom_floors	Storage rooms	130	20	0 0
	157	INTERVIEW	Offices	Office spaces	114	20	0
	159	LOBBY	Offices	Main entry lobbies	649	75	0
	159A	T.R	Public_spaces	Toilet rooms - public (continuous exhaust)	75	0	50
	161	TRAINING	Offices	Conference rooms	700	165	0
		MAIN BUILDING ERV	Total		19974	2480	1000
	204	ARMORER	Offices	Office spaces	235	20	235
פַ עַפּ	205	CORRIDOR	Public_spaces	Corridors	104	10	0
	206	SECURED STORAGE	Retail_stores_sales_floors_and_showroom_floors	Storage rooms	161	20	0
ASSET UILDIN	207	TOILET ROOM	Public_spaces	Toilet rooms - public (intermittent exhaust)	65	0	70
ROLLING ASSET BUILDING	208	DRYING ROOM	Retail_stores_sales_floors_and_showroom_floors	Storage rooms	70	10	70
<u>.</u> Ф		ROLLING ASSET BUILDING	Total		635	60	375
ک هر	162	SHELL STORAGE	Storage	Warehouses	12475	749	0
RTU 1,2,3		RTU 1,2,3	Total		12475	749	0
					1/4/7	. ,49	

	MINIMUM N	IECHANICAL PIPIN	G INSULATION	THICK	(NESS			
	FLUID OPERATING	INSULATION COI	NDUCTIVITY		NOMINA	AL PIPE OR T	UBE SIZE	
SYSTEM TYPES	TEMPERATURE RANGE AND USAGE (°F)	CONDUCTIVITY (BTU * IN./ (H * FT. ² * °F))	MEAN RATING TEMPERATURE (°F)	<1	1 TO < 1 1/2	1 1/2 TO <4	4 TO < 8	≥ 8
HEAT PUMP, VRF/RV,	141 - 200	0.25 - 0.29	125	1.5	1.5	2.0	2.0	2.0
X CONDENSING UNIT	40 - 60	0.21 - 0.27	75	0.5	0.5	1.0	1.0	1.0

1. BASED ON THE 2021 INTERNATIONAL ENERGY CONSERVATION CODE (IECC).
2. PROVIDE ALUMINUM JACKETS ON ALL PIPING INSULATION LOCATED EXTERIOR OF THE BUILDING. PROVIDE PVC JACKET ON ALL EXPOSED PIPING INSULATION IN MECHANICAL 3. REFER TO SPECIFICATIONS FOR ADDITIONAL INSULATION REQUIREMENTS.

 99.6
 -27.3
 100.7
 -32.8
 102.2

 72.3
 -27.3
 73.6
 -32.7
 75.3

2021 ASHRAE	Handbook - Fo	undamentals (IP)												
						IDAHO FA	LLS, ID, USA (WMO: 725785))						
Lat:43	.519N	Long:1	12.064W	Elev:4733	StdP:	12.35	Tin	ne zone:-7.00 (N	AM)	Period	1:94-19	WBAN	N: 24145	Climate	zone:6B
Annual Heating	, Humidification	n, and Ventilatio	n Design Conditio	ons											
	TT4	ng DB		Hι	midification DP	MCDB and H	IR			Coldest mont	th WS/MCDB		MCW/PCW	'D to 99.6% DB	
Coldest Month	пеаш	ng DD		99.6%			99%		0	.4%	1	%	MCWS/PCW.	D to 99.0% DB	WSF
	99.6%	99%	DP	HR	MCDB	DP	HR	MCDB	WS	MCDB	WS	MCDB	MCWS	PCWD	1
1	-5.5	0.4	-10.7	3.7	-4.9	-5.0	5.0	1.4	29.2	33.6	26.7	31.4	5.4	0	0.671
Annual Cooling	, Dehumidificat	ion, and Enthalp	y Design Conditi	ons											
				Cooling DE	MCWB					Evaporation	WB/MCDB			MCMC/DCM	7D t- 0 49/ DD
Hottest Month	Hottest Month DB Range	0.	4%	1	%		2%	0	.4%	1	%	2	2%	1 MCWS/PCW	/D to 0.4% DB
	DD Range	DB	MCWB	DB	MCWB	DB	MCWB	WB	MCDB	WB	MCDB	WB	MCDB	MCWS	PCWD
7	35.8	92.2	60.9	89.7	60.5	86.9	59.7	64.9	83.6	63.1	82.0	61.6	81.5	10.3	200
			Dehumidifi	cation DP/MCD	B and HR						Enthalpy	MCDB			
	0.4%			1%			2%		0.	.4%	1	%	2	2%	Extreme Max WB
DP	HR	MCDB	DP	HR	MCDB	DP	HR	MCDB	Enth	MCDB	Enth	MCDB	Enth	MCDB] ""
58.8	88.5	71.4	56.5	81.1	69.1	54.3	75.0	68.0	32.3	83.3	30.8	81.8	29.6	81.4	74.3
Extreme Annua	l Design Condit	ions													
ъ.	streme Annual V	VS			Extreme Annua	l Temperature				n-Year Re	turn Period Value	es of Extreme Ter	mperature		
1 157	areme Alliuar v	v is	1	M	200	Standon	d darriation	m-5	******	n=10	770000	m-20) ****	m=50	710000

97.0 7.7 2.0 -18.5 98.4 -23.0 69.4 7.4 2.3 -18.8 71.0 -23.1

MECHANICAL PIPING MATERIAL SCHEDULE							
CATION	PIPE TYPE	ACCEPTABLE PIPING MATERIAL					
GERANT	•						

ALL ASTM B 88 TYPE L COPPER

REFER TO SPECIFICATIONS FOR ADDITIONAL PIPING REQUIREMENTS.
 PROVIDE DIELECTRIC FITTINGS FOR ALL DISSIMILAR METALS.

PROJECT #24.3008_C23

4943 NORTH 29TH EAST, SUITE A IDAHO FALLS, ID 83401 208.552.9874 www.imegcorp.com IMEG RESERVES PROPRIETARY RIGHTS, INCLUDING COPYRIGHTS, TO THIS DRAWING AND THE DATA SHOWN THEREON. SAID DRAWING AND/OR DATA ARE THE EXCLUSIVE PROPERTY OF IMEG AND SHALL NOT BE USED OR REPRODUCED FOR ANY OTHER PROJECT WITHOUT THE EXPRESS WRITTEN APPROVAL AND PARTICIPATION OF IMEG. ©2024 IMEG CONSULTANTS CORP. DPW 2251

PROJECT NO. DATE: AUGUST 2024 DRAWN BY: **CHECKED BY:**

CLOSELY COORDINATE ALL PLUMBING WITH ELECTRICAL, ARCHITECTURAL, AND STRUCTURAL. COORDINATE FIRE LINE STUB REQUIREMENTS IN FIRE RISER ROOM WITH GENERAL CONTRACTOR/FIRE PROTECTION CONTRACTOR. PIPING IS APPROXIMATE AND DIAGRAMMATIC AND IS NOT TO BE SCALED. PROVIDE ALTERNATE ROUTING, OFFSETS, AND TRANSITIONS AS REQUIRED FOR COORDINATION OF ALL WORK WITHOUT ADDITIONAL COST

FIELD VERIFY ALL PLUMBING PRIOR TO COMMENCING NEW WORK. DO NOT FABRICATE OR INSTALL ANY PLUMBING BEFORE VERIFYING DIMENSIONS AND ROUTING WITH BUILDING CONDITIONS AND ALL OTHER TRADES.

CONTRACTOR IS RESPONSIBLE FOR ALL APPLICABLE PERMITS AND FEES.

IF DISCREPANCIES EXIST BETWEEN BUILDING CODES, DRAWINGS, NOTES, AND SPECIFICATIONS, THE MOST STRINGENT REQUIREMENT WILL BE REQUIRED UNLESS CLARIFIED BY PROJECT ENGINEER IN AN OFFICIAL ADDENDUM OR SUPPLEMENTAL

ALL DETAILS INCLUDED IN DESIGN DRAWINGS MUST BE APPLIED TO ALL RELEVANT INSTALLATIONS REFERRED TO IN THE DETAIL. EACH DETAIL WILL NOT BE SPECIFICALLY REFERENCED ON THE DRAWINGS.

REQUESTS FOR INFORMATION: THE CONTRACTOR ACKNOWLEDGES ITS RESPONSIBILITY TO BE FAMILIAR WITH THE CONTRACT DOCUMENTS. REQUESTS FOR INFORMATION (RFI'S) WILL BE RESPONDED TO WITHIN FIVE WORKING DAYS OF RECEIPT. TIME SPENT REVIEWING RFI'S IN WHICH THE INFORMATION REQUESTED IS CLEARLY INCLUDED IN THE DRAWINGS OR SPECIFICATIONS WILL BE CHARGED TO THE CONTRACTOR AT ENGINEERING SYSTEM SOLUTIONS' STANDARD BILLING RATES.

EXISTING PIPING LOCATIONS AND SIZES ARE SHOWN FOR REFERENCE AND ARE BASED ON PREVIOUS DRAWINGS AND SITE VISITS. VERIFY LOCATIONS AND SIZES IN FIELD. CONTRACTOR IS RESPONSIBLE TO REMOVE ALL PIPING NECESSARY TO COMPLETE THEIR SCOPE OF WORK. CONTRACTOR IS TO COMPLETELY DRAIN ALL EXISTING PIPING IN THE BUILDING.

INSTALLATION

PROVIDE SEISMIC RESTRAINTS FOR PLUMBING EQUIPMENT AND PIPING. RESTRAINTS ARE TO COMPLY WITH SEISMIC DESIGN CRITERIA LISTED IN THE STRUCTURAL GENERAL NOTES AND IN ACCORDANCE WITH ASCE/SEI 7-10 AND BUILDING CODE. CONTRACTOR IS RESPONSIBLE TO PROVIDE INSTALLATION DETAILS THAT ARE STAMPED BY A PROFESSIONAL ENGINEER, LICENSED IN THE LOCAL JURISDICTION. DETAILS ARE TO ACCOUNT FOR SEISMIC, WIND, AND GRAVITY LOADING REQUIREMENTS. WHEN ENGINEERING SYSTEM SOLUTIONS (ES2) PROVIDES THE STRUCTURAL ENGINEERING, GENERIC INSTALLATION DETAILS MAY BE INCLUDED IN THE STRUCTURAL DOCUMENTS AND MAY BE FOLLOWED WHERE APPLICABLE REFER TO STRUCTURAL GENERAL NOTES FOR SEISMIC DESIGN CATEGORY, SITE CLASS, RISK CATEGORY, SHORT PERIOD DESIGN SPECTRAL RESPONSE ACCELERATION COEFFICIENT (SDS), ONE SECOND PERIOD DESIGN SPECTRAL RESPONSE ACCELERATION COEFFICIENT (SD1), AND IMPORTANCE FACTOR.

CLOSE ENDS OF PIPING AND COVER FLOOR DRAINS DURING CONSTRUCTION. CLEAN ALL EQUIPMENT AND PIPING AT COMPLETION OF PROJECT.

CAULK AND SEAL ALL PENETRATIONS THROUGH CEILINGS, WALLS, AND FLOORS. PROVIDE ESCUTCHEON COVERS OR SHEET METAL FLANGES ON ALL VISIBLE PENETRATIONS.

COORDINATE ALL STRUCTURAL AND TOP PLATE PENETRATIONS FOR PIPING WITH GENERAL CONTRACTOR AND STRUCTURAL ENGINEER.

CONCEALED VENTS, DUCTS, AND ALL PIPING INSTALLED THROUGH FRAMING MEMBERS MUST BE PROTECTED FROM FASTENER PENETRATION BY A STEEL SHIELD PLATE (MINIMUM THICKNESS OF 1/16") UNLESS THE DISTANCE FROM THE FACE EDGE OF THE FRAMING IS NOT LESS THAN 1.5".

PROVIDE AND INSTALL EXPANSION JOINTS FOR ALL PIPING SYSTEMS PER CODE AND LOCAL JURISDICTION REQUIREMENTS. AT A MINIMUM, PROVIDE EXPANSION JOINTS WHEN JOINING SEPARATE PIPING MATERIAL AND FOR ALL DWV AND ROOF DRAIN STACKS SERVING MORE

INSTALL EXPANSION JOINTS IN ALL PIPING CROSSING A BUILDING EXPANSION JOINT. EXPANSION JOINTS MUST MEET THE REQUIREMENTS FOR EXPANSION AS DESCRIBED IN THE STRUCTURAL DRAWINGS.

INSTALLING CONTRACTOR MUST INSTALL ALL PIPING TO MEET PIPING MANUFACTURER RECOMMENDATIONS FOR THERMAL EXPANSION. INSTALL EXPANSION LOOPS AND/ OR BENDS AS RECOMMENDED. AS A MINIMUM REQUIREMENT: ALL PIPING CONVEYING FLUIDS OF TEMPERATURES GREATER THAN 100 DEGREES, ALL PIPING WITH STRAIGHT RUNS LONGER THAN 100 FEET, ALL PEX-A PIPING, AND ALL OTHER MANUFACTURER RECOMMENDED APPLICATIONS TO INCORPORATE EXPANSION LOOPS AND/ OR BENDS TO MINIMIZE THERMAL EXPANSION STRESSES. ALL PEX-A PIPING LARGER THAN 3/4 IN DIA TO INCORPORATE PIPE SUPPORT CHANNEL PER MANUFACTURER RECOMMENDATIONS.

PROVIDE DRAIN PANS UNDER ALL PIPING LOCATED OVER ELECTRICAL PANELS AND UNDER ALL WATER HEATERS.

ANY PIPE THAT PASSES THROUGH A FOUNDATION WALL TO BE PROVIDED WITH A PIPE SLEEVE. THE SLEEVE TO BE TWO PIPE SIZES GREATER THAN THE PIPE PASSING THROUGH THE WALL. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL REQUIREMENTS. COORDINATE ANY PENETRATIONS NOT LISTED ON DRAWINGS WITH STRUCTURAL ENGINEER PRIOR TO INSTALLATION.

ALL RATED PENETRATIONS TO BE FIRE RATED PER 3M FIRE PROTECTION GUIDELINES OR APPROVED EQUAL. VISIT 3M'S WEBSITE AT 3M.COM/FIRESTOP FOR APPLICABLE INFORMATION ON FIRESTOPPING. REFER TO THE 3M FIRE PROTECTION PRODUCTS SPECIFIERS AND APPLICATORS GUIDE FOR FIRE RATED PENETRATION PROTECTION REQUIREMENTS AND

https://multimedia.3m.com/mws/media/1302803O/3m-fire-protection-products-specifiers-guide.pdf. REFER TO ARCHITECTURAL DRAWINGS FOR FIRE RATE ASSEMBLY LOCATIONS AND

PIPING MAY DIFFER IN DIMENSIONS THAN WHAT IS INDICATED ON DRAWINGS BASED ON EASIER PROCUREMENT OR CONSISTENT SIZES. PIPING MUST BE LARGER THAN WHAT IS INDICATED ON THE DRAWINGS AND THE CONTRACTOR MUST COORDINATE ROUTING OF LARGER PIPING WITH FIELD CONDITIONS.

PIPE SIZE RUNOUTS TO INDIVIDUAL PLUMBING FIXTURES TO MATCH SIZE SHOWN IN PLUMBING FIXTURE SCHEDULE UNLESS NOTED OTHERWISE.

SUPPORT

PIPING AND EQUIPMENT HANGERS CENTERED ON STEEL I-BEAMS (CONCENTRIC HANGERS) ARE PREFERRED OVER HANGERS SUPPORTED FROM A SINGLE SIDE OF THE BOTTOM I-BEAM FLANGE. IF USING HANGERS SUPPORTED FROM A SINGLE SIDE OF THE BOTTOM FLANGE, THE MAXIMUM WEIGHT LIMIT PER HANGER IS 200 POUNDS UNLESS DIRECTED OTHERWISE BY THE PROJECT STRUCTURAL ENGINEER.

HANGERS AND SUPPORTS TO BE DESIGNED AND MANUFACTURED IN CONFORMANCE WITH ANSI/MSS SP-58.

EQUIPMENT AND FIXTURES

GENERAL REQUIREMENTS ALL MANUFACTURER SUBSTITUTIONS MUST BE SUBMITTED THROUGH ARCHITECT AND APPROVED THROUGH AN ADDENDUM. PRIOR APPROVALS MUST BE SUBMITTED 10 DAYS

PROVIDE SUBMITTALS ON ITEMS LISTED IN SCHEDULES TO ENGINEER FOR REVIEW PRIOR TO ORDER, PURCHASE, OR INSTALLATION. PROVIDE ALL HVAC AND PLUMBING CONSTRUCTION COSTS FOR ENGINEER DATA BASE AS PART OF SUBMITTALS.

CONTRACTOR MUST COORDINATE ALL ELECTRICAL REQUIREMENTS FOR ALL EQUIPMENT WITH ELECTRICAL CONTRACTOR AFTER SUBMITTALS ARE REVIEWED.

PROVIDE OPERATIONS AND MAINTENANCE MANUAL INCLUDING ALL PLUMBING EQUIPMENT.

REFER TO ARCHITECTURAL FOR FINAL FIXTURE AND FIXTURE ACCESSORY LOCATIONS.

PROVIDE GARBAGE DISPOSAL FOR ALL APARTMENT KITCHEN SINKS.

PROVIDE ONE YEAR PARTS AND LABOR WARRANTY ON INSTALLATION.

EQUIPMENT VENT

PROVIDE ADEQUATE COMBUSTION, VENTILATION, AND DILUTION AIR FOR ALL GAS FIRED EQUIPMENT PER CALIFORNIA PLUMBING CODE AND IN ACCORDANCE WITH MANUFACTURER'S

ELECTRICAL REQUIREMENTS COORDINATE ALL ELECTRICAL AND CONTROL REQUIREMENTS WITH ELECTRICIAN.

CONDENSATE

PROVIDE CONDENSATE DRAINS PIPED FULL SIZE TO FLOOR DRAIN FOR ALL AIR CONDITIONING EQUIPMENT AND HIGH EFFICIENCY FURNACES AND BOILERS. SLOPE ALL CONDENSATE AT MIN 1/8" PER FT. ALL CONDENSATE PIPING TO BE MIN 3/4" DIA. UNLESS NOTED OTHERWISE. REFER TO MANUFACTURER 'S RECOMMENDATIONS FOR CONDENSATE TRAPPING REQUIREMENTS.

INSTALLATION

REFER TO ARCHITECTURAL FLOOR PLANS FOR EXACT FIXTURE LOCATIONS AND MOUNTING HEIGHTS.

PROVIDE BALANCE VALVES TO ALLOW COMPLETE BALANCE OF PLUMBING SYSTEMS AND ISOLATION VALVES FOR MAINTENANCE ON EACH PIECE OF EQUIPMENT.

INSTALL ALL EQUIPMENT AND FIXTURES PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE ONE YEAR PARTS AND LABOR WARRANTY ON INSTALLATION.

T&P RELIEF VALVE TO INDIRECT DRAIN AT FLOOR DRAIN.

SET ALL FIXTURE TEMPERATURE LIMIT STOPS TO 110°F UNLESS INDICATED OTHERWISE.

INSULATE HANDICAP LAVATORY TAIL PIECE, P-TRAP, TRAP ARM, HOT AND COLD WATER SUPPLY WITH HANDI LAV-GUARD.

ELECTRIC WATER HEATERS TO COMPLY WITH UL174 AND UL1453.

ALL DISHWASHERS TO BE PROTECTED AGAINST BACKFLOW BY AN AIR GAP OR BACKFLOW PREVENTER.

LOCATION OF IGNITION SOURCES FOR GAS FIRED EQUIPMENT LOCATED IN GARAGES TO BE 18" MINIMUM AFF.

IN ADDITION TO THE BUILDING BACKFLOW PREVENTER, PROVIDE AND INSTALL BACKFLOW PREVENTERS FOR THE FOLLOWING: IRRIGATION SYSTEMS CONNECTED TO THE DOMESTIC WATER PIPING, ICE MAKERS, COFFEE MAKERS, JUICE DISPENSERS, BEVERAGE DISPENSERS AND DCW/DHW SUPPLY LINES SERVING ALL CLOTHES WASHERS. BACKFLOW PREVENTERS TO MEET LOCAL JURISDICTION REQUIREMENTS.

ALL WATER HEATERS WITH AN INPUT ABOVE 199 MBH OR STORAGE CAPACITY GREATER THAN 119 GALLONS MUST COMPLY WITH LOCAL BOILER CODE AND ASME. WATER HEATERS MUST BE ASME CERTIFIED. INITIAL AND PERIODIC INSPECTIONS AND CERTIFICATIONS MUST BE ARRANGED. PROVIDE CARBON MONOXIDE DETECTOR IN WATER HEATER ROOM. PROVIDE EMERGENCY PUSH BUTTON SHUT OFF THAT CONTROLS GAS SHUT-OFF VALVE AT ENTRANCE TO WATER HEATER ROOM

PROVIDE CONCRETE HOUSEKEEPING PAD (MIN 3" ABOVE GROUND LEVEL) FOR ALL WATER

GAS PIPING

INSTALLATION

PRIME AND PAINT ALL GAS PIPING LOCATED ON ROOF. ALL PIPING TO BE INSTALLED 4" MINIMUM ABOVE ROOF SURFACE.

GAS CONNECTION TO APPLIANCES TO BE CSST AND GAS CONNECTION TO COMMERCIAL COOKING APPLIANCES TO COMPLY WITH ANSI Z21.69. CONNECTORS FOR RANGES AND DOMESTIC CLOTHES DRYERS TO HAVE A MAXIMUM LENGTH OF 6 FT. CONNECTORS FOR ALL OTHER APPLIANCES TO HAVE A MAXIMUM LENGTH OF 3 FT. SHUTOFF VALVES TO BE INSTALLED AHEAD OF CONNECTORS. CONNECTOR INSTALLATION TO COMPLY WITH MANUFACTURER REQUIREMENTS.

ALL PIPING LOCATED IN A RETURN AIR PLENUM TO BE WELDED.

TESTING THIS INSPECTION SHALL INCLUDE AN AIR, C02, OR NITROGEN PRESSURE TEST, AT WHICH TIME THE GAS PIPING SHALL STAND A PRESSURE OF NOT LESS THAN 10 PSI (69 kPa) GAUGE PRESSURE. TEST PRESSURES SHALL BE HELD FOR A LENGTH OF TIME SATISFACTORY TO THE AUTHORITY HAVING JURISDICTION, BUT IN NO CASE LESS THAN 15 MINUTES WITH NO PERCEPTIBLE DROP IN PRESSURE. FOR WELDED PIPING, AND FOR PIPING CARRYING GAS AT PRESSURES IN EXCESS OF 14 INCHES WATER COLUMN PRESSURE (3.5 kPa), THE TEST PRESSURE SHALL BE NOT LESS THAN 60 PSI (414 kPa) AND SHALL BE CONTINUED FOR A LENGTH OF TIME SATISFACTORY TO THE AUTHORITY HAVING JURISDICTION, BUT IN NO CASE FOR LESS THAN 30 MINUTES. FOR CSST CARRYING GAS AT PRESSURES IN EXCESS OF 14 INCHES WATER COLUMN (3.5 kPa) PRESSURE, THE TEST PRESSURE SHALL BE 30 PSI (207 kPa) FOR 30 MINUTES. THESE TESTS SHALL BE MADE USING AIR, CO2, OR NITROGEN PRESSURE AND SHALL BE MADE IN THE PRESENCE OF THE AUTHORITY HAVING JURISDICTION. NECESSARY APPARATUS FOR CONDUCTING TESTS SHALL BE FURNISHED BY THE PERMIT HOLDER. TEST GAUGES USED IN CONDUCTING TESTS SHALL BE IN ACCORDANCE WITH SECTION 318.0.

SANITARY SEWER

STANDARD ABBREVIATIONS

INSTALLATION WASTE PIPING SMALLER THAN 4" IS TO BE SLOPED AT 1/4" PER FOOT. ALL WASTE PIPING 4" AND LARGER MAY BE INSTALLED AT 1/8" SLOPE PER FOOT UPON RECEIVING WRITTEN

APPROVAL BY LOCAL JURISDICTION. VERIFY INVERT BEFORE INSTALLATION. PROVIDE CLEANOUTS ON INTERIOR SANITARY AND STORM PIPING ACCORDING TO LOCAL

JURISDICTION AND PLUMBING CODE REQUIREMENTS.

PROVIDE GRADE CLEANOUT WHERE BUILDING SEWER CONNECTS TO SEWAGE SYSTEM.

PROVIDE VENT FOR EVERY TRAP AND TRAPPED FIXTURE. ALL VTR'S TO BE 2" MINIMUM AND TERMINATE MINIMUM 10" ABOVE ROOF AND MINIMUM 24" FROM ROOF EDGE OR PARAPET, AND 25' FROM OUTSIDE AIR INTAKE INTO BUILDING.

INSTALL PRESSURE ACTIVATED TRAP PRIMERS ON ALL FLOOR DRAINS AND FLOOR SINKS UNLESS NOTED OTHERWISE. INSTALL TRAP PRIMERS COMPLYING WITH ALL MANUFACTURER REQUIREMENTS. PROVIDE ACCESS PANEL FOR ALL TRAP PRIMERS AND COORDINATE LOCATIONS WITH GENERAL CONTRACTOR/ ARCHITECT. TRAP PRIMERS ARE INTENDED TO BE INSTALLED ABOVE ACCESSIBLE CEILINGS, IN CLOSETS, OR BELOW COUNTERS. ALL TRAP PRIMERS TO BE INSTALLED ON BRANCH PIPING SERVING REGULARLY USED FIXTURES TO ENSURE CORRECT OPERATION. TRAP PRIMER TO OPERATE BASED ON A 5 PSI OR LESS PRESSURE DROP. PROVIDE MIFAB M-500 TRAP PRIMER OR APPROVED EQUAL.

PRESSURE TEST ALL SANITARY SEWER AND VENT AND STORM PIPING PER PLUMBING CODE REQUIREMENTS.

INSULATION

MACHINE.

INSULATE ALL ROOF DRAIN PIPING AND OVERFLOW DRAIN AND ROOF DRAIN BOWLS PER INSULATION TABLE. PROVIDE ALUMINUM JACKET ON ALL INSULATION LOCATED OUTDOORS. INSULATE ALL P-TRAPS AND DRAIN BODIES THAT RECEIVE DISCHARGE FROM AN ICE

DOMESTIC WATER

ACCESS

PROVIDE ACCESS PANELS FOR ALL VALVES LOCATED IN WALLS OR ABOVE HARD LID CEILINGS. PROVIDE A RATED ACCESS PANEL WHERE LOCATED IN OR ABOVE A FIRE RATED ASSEMBLY. COORDINATE FINAL LOCATION WITH GENERAL CONTRACTOR AND ARCHITECT. COORDINATE ACCESS PANEL COLOR WITH ARCHITECT.

INSTALLATION

CONTRACTOR TO PROVIDE FLOW TEST FOR DOMESTIC WATER SUPPLY ON SITE AT BEGINNING OF CONSTRUCTION TO ENGINEER TO CONFIRM AVAILABLE PRESSURE, PRIOR TO PURCHASE AND INSTALLATION OF BOOSTER PUMP/PRV.

PROVIDE AND INSTALL WATER METER PER LOCAL JURISDICTION REQUIREMENTS. COORDINATE LOCATION WITH CIVIL. INSTALL WATER METER READING DEVICE PER LOCAL JURISDICTION REQUIREMENTS.

PROVIDE AND INSTALL DOUBLE CHECK BACKFLOW PREVENTER THAT IS APPROVED BY LOCAL JURISDICTION ON DOMESTIC WATER SERVICE. COORDINATE LOCATION WITH CIVIL.

PROVIDE WATER HAMMER ARRESTOR IN EACH BRANCH LINE SERVING FIXTURES AND EQUIPMENT WITH AUTOMATIC VALVE OPERATORS. SIZE AND INSTALL PER MANUFACTURER'S

PROVIDE ISOLATION VALVES FOR ALL BRANCH LINES SERVING THREE OR MORE FIXTURES. PROVIDE BALANCING VALVES FOR EACH DOMESTIC HOT WATER RETURN PIPING OF TWO BRANCHES OR MORE.

ALL DOMESTIC WATER PIPING ROUTED BELOW SLAB TO HAVE MINIMAL TO NO JOINTS OR FITTINGS BELOW SLAB.

ROUTE WATER PIPING IN HEATED AREAS ONLY. DO NOT ROUTE PIPING IN NON-INSULATED ATTIC, CEILING AND WALL SPACES.

PRESSURE TEST ALL DOMESTIC WATER PIPING PER PLUMBING CODE REQUIREMENTS.

DISINFECT DOMESTIC WATER PIPING PER PLUMBING CODE REQUIREMENTS.

PROVIDE STEEL CHANNEL PIPE SUPPORT BETWEEN HANGERS FOR PEX PIPING TO AVOID

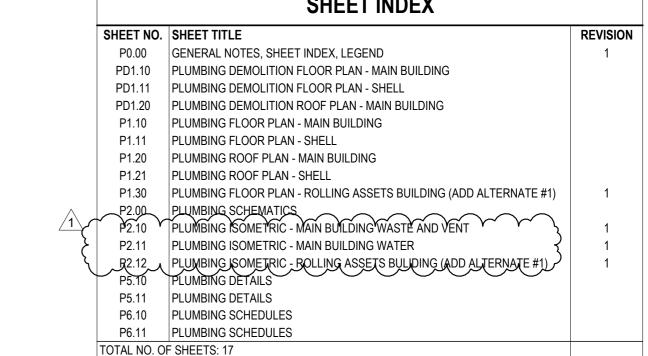
INSULATION

SAGGING.

INSULATE ALL DOMESTIC HOT WATER PIPING AND RECIRCULATION PIPING AND DOMESTIC COLD WATER PIPING PER INSULATION TABLE. PROVIDE ALUMINUM JACKET ON ALL INSULATION LOCATED OUTDOORS.

	STANDARD ADDREVIATIONS	PLUMDING LLGLIND				
(E) AFF	EXISTING ABOVE FINISHED FLOOR		BALL VALVE			DOMESTIC COLD WATER (DCW)
AFF	ANALOG INPUT	<u> </u>	BUTTERFLY VALVI	=		DOMESTIC HOT WATER (DHW)
ALT	ALTERNATE	Ψ	GATE VALVE			` '
AO BFF	ANALOG OUTPUT BELOW FINISHED FLOOR					DOMESTIC HOT WATER RECIRC. (DHWR)
CAP.	CAPACITY		GLOBE VALVE		S-DCW	SOFTENED DOMESTIC COLD WATER
CD CV	CONDENSATE DRAIN CONSTANT VOLUME	M	MOTORIZED VALVE OPERATOR		U-DCW	UNSOFTENED DOMESTIC COLD WATER
CWFU	COLD WATER FIXTURE UNITS		CHECK VALVE (SWING OR LIFT AS REQ'D)		FS-DCW	FUTURE SOFTENED DOMESTIC COLD WATER
DFU DI	DRAINAGE FIXTURE UNITS DIGITAL INPUT		SOLENOID VALVE		—— (TEMP)°F ——	DOMESTIC HOT WATER (SPECIFIED TEMP.)
DIA OR Ø	DIAMETER DIGITAL OUTPUT		AUTOMATIC CONTROL VALVE (2-WAY)		—DHWR (TEMP)°F—	DOMESTIC HOT WATER RECIRC. (DHWR-SPECIFIED TEMP.)
DSN	DOWNSPOUT NOZZLE		AUTOMATIC CONT	ROL VALVE (3-WAY)		SANITARY VENT (VT)
DW EFF	DISHWASHER EFFICIENCY		PRESSURE REDUC	CING VALVE		SANITARY SEWER ABOVE GRADE (SS)
ELEV	ELEVATION		P & T RELIEF VALVE			SANITARY SEWER BELOW GRADE (SS)
EWT FA	ENTERING WATER TEMPERATURE FREE AREA	4	PET COCK OR GAUGE COCK			HEAT TRACING
FCO FD	FLOOR CLEANOUT FLOOR DRAIN					
FPM	FEET PER MINUTE		AUTOMATIC FLOW CONTROL VALVE		——CHS——	CHILLED WATER SUPPLY
FS FT	FLOOR SINK FEET		WATER HAMMER ARRESTOR		——CHR——	CHILLED WATER RETURN
FW	FRESH WATER	—— <u> </u>	AIR VENT (AUTOMATIC)		———CD———	CONDENSATE DRAIN
GA GAL	GAUGE GALLON	——————————————————————————————————————	— STRAINER			CONDENSOR WATER SUPPLY
GD	GARAGE DRAIN		VENTURI FLOW MI	ETER	CWR	CONDENSOR WATER RETURN
GPM HP	GALLONS PER MINUTE HORSEPOWER		TEMPERATURE &	PRESSURE TEST PLUG	——FS——	FIRE SPRINKLER SERVICE
HR	HOUR	F	FLOW SWITCH		HWS	HEATING WATER SUPPLY
HT HWFU	HEIGHT HOT WATER FIXTURE UNITS		TEMPERATURE SENSOR		——HWR——	HEATING WATER RETURN
IAQ	INDOOR AIR QUALITY INCH	\bigcirc	PRESSURE GAUG		——————————————————————————————————————	LIQUID PROPANE
IN. INWC	INCH INCHES OF WATER COLUMN	#		L WIGAUGE COOK	NG	NATURAL GAS
INWG LBS	INCHES OF WATER GAUGE POUNDS		THERMOMETER		-	
LBS	LEAVING WATER TEMPERATURE		PUMP		——OD——	OVERFLOW ROOF DRAIN
MAX MBH	MAXIMUM THOUSAND BRITISH THERMAL UNITS/HOUR		ELBOW DOWN		——RD——	ROOF DRAIN OR EXTERIOR DRAIN
MECH	MECHANICAL	o	ELBOW UP		———RL———	REFRIGERANT LIQUID
MIN NC	MINIMUM NOISE CRITERIA		TEE DOWN		——RS——	REFRIGERANT SUCTION
NIC	NOT IN CONTRACT	——————————————————————————————————————	HOSE BIB OR SILL	COCK	s	STEAM
NO. NOM	NUMBER NOMINAL		PIPE CAP		——SD——	STORM DRAIN
NTS	NOT TO SCALE		REDUCER VALVE		**	PIPING BELOW GRADE (**SYS. ABR.)
OD L OSA	OVERFLOW DRAIN OUTSIDE AIR				0111	, ,
PD	PRESSURE DROP		UNION		— -GW- —	GREASE WASTE (GW)
PRV PSI	PRESSURE REDUCING VALVE POUNDS PER SQUARE INCH		YARD HYDRANT/R	OOF HYDRANT		POINT OF REMOVAL FROM EXISTING
PSIG RD	POUNDS PER SQUARE INCH GAUGE ROOF DRAIN		FLOOR DRAIN		$lackbox{}{lackbox{}}{lackbox{}{lackbox{}}{lackbox{}{lackbox{}}{lackbox{}{lackbox{}}{lackbox{}{lackbox{}}{la$	POINT OF CONNECTION TO EXISTING
RPBP	REDUCED PRESSURE BACKFLOW PREVENTER		FLOOR SINK		P##	KEYED NOTE
SL SP	SEA LEVEL STATIC PRESSURE		CLEANOUT TO GR	ADE (CTG)		
SQ FT	SQUARE FEET	– — — — —	FLOOR CLEANOUT (FCO)		SEC# SHEET#	SECTION CUT LINE
SR SS	STORY RISER SERVICE SINK OR STAINLESS STEEL	– ——GII	WALL CLEANOUT (WCO)			
TP	TRAP PRIMER		EXPANSION JOINT		4	DETAIL TAG
TSP UNO	TOTAL STATIC PRESSURE UNLESS NOTED OTHERWISE		FLEXIBLE PIPE CONNECTION		P5.1	
VAV	VARIABLE AIR VOLUME					
VFD VOL	VARIABLE FREQUENCY DRIVE VOLUME		REDUCED PRESSURE BACKFLOW PREVENTER			
VTR	VENT THROUGH ROOF		DOUBLE CHECK BACKFLOW PREVENTER			
W/ W/O	WITH WITHOUT		TRAP PRIMER			
wco	WALL CLEANOUT				NOTE: NOT ALL SYMBOLS MAY BE USED	
WPD WT	WATER PRESSURE DROP WEIGHT					
SHEET INDEX						
				SHEET INDEX		

PLUMBING LEGEND







ACIL щ 9# REMOE NEW

2

2

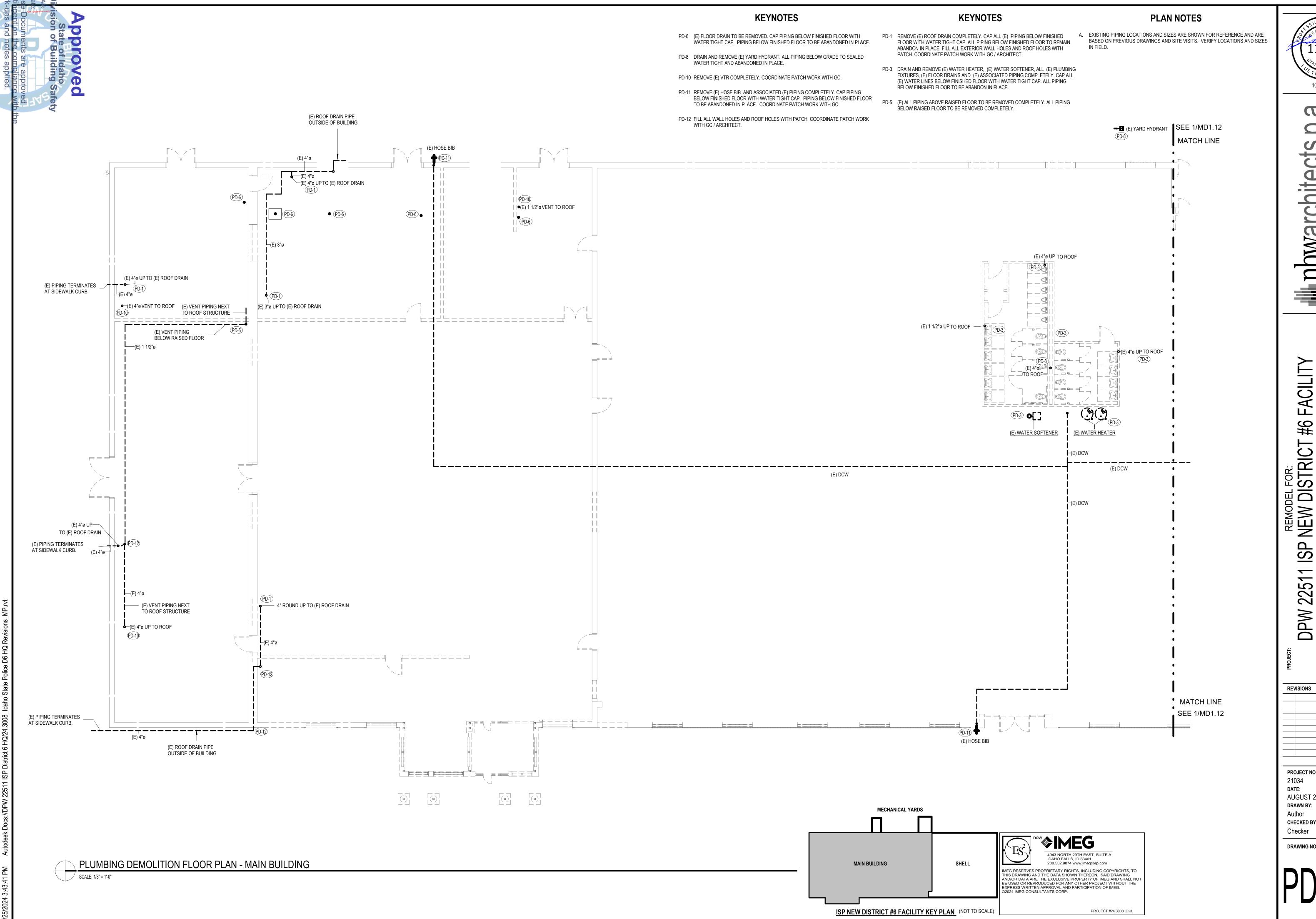
7

M

REVISIONS 1 IDOPL COMMENTS

PROJECT NO. 21034 DATE: AUGUST 2024 DRAWN BY: Author CHECKED BY:

Checker DRAWING NO.:



SP NEW DIST 1155 FOOTE DR IDAHO FALLS, IDAH

SP

DPW 2251

REVISIONS

PROJECT NO. AUGUST 2024 DRAWN BY: CHECKED BY: Checker

PD-11 REMOVE (E) HOSE BIB AND ASSOCIATED (E) PIPING COMPLETELY. CAP PIPING BELOW FINISHED FLOOR WITH WATER TIGHT CAP. PIPING BELOW FINISHED FLOOR TO BE ABANDONED IN PLACE. COORDINATE PATCH WORK WITH GC.

PLAN NOTES A. EXISTING PIPING LOCATIONS AND SIZES ARE SHOWN FOR REFERENCE AND ARE BASED ON PREVIOUS DRAWINGS AND SITE VISITS. VERIFY LOCATIONS AND SIZES IN FIELD.

REMODEL FOR:

1 ISP NEW DISTRICT #6 FACILITY
1155 FOOTE DRIVE
IDAHO FALLS, IDAHO 83402 **DPW 22511**

REVISIONS

PROJECT NO. 21034 DATE: AUGUST 2024 DRAWN BY: Author CHECKED BY:

Checker DRAWING NO.:

4943 NORTH 29TH EAST, SUITE A IDAHO FALLS, ID 83401 208.552.9874 www.imegcorp.com

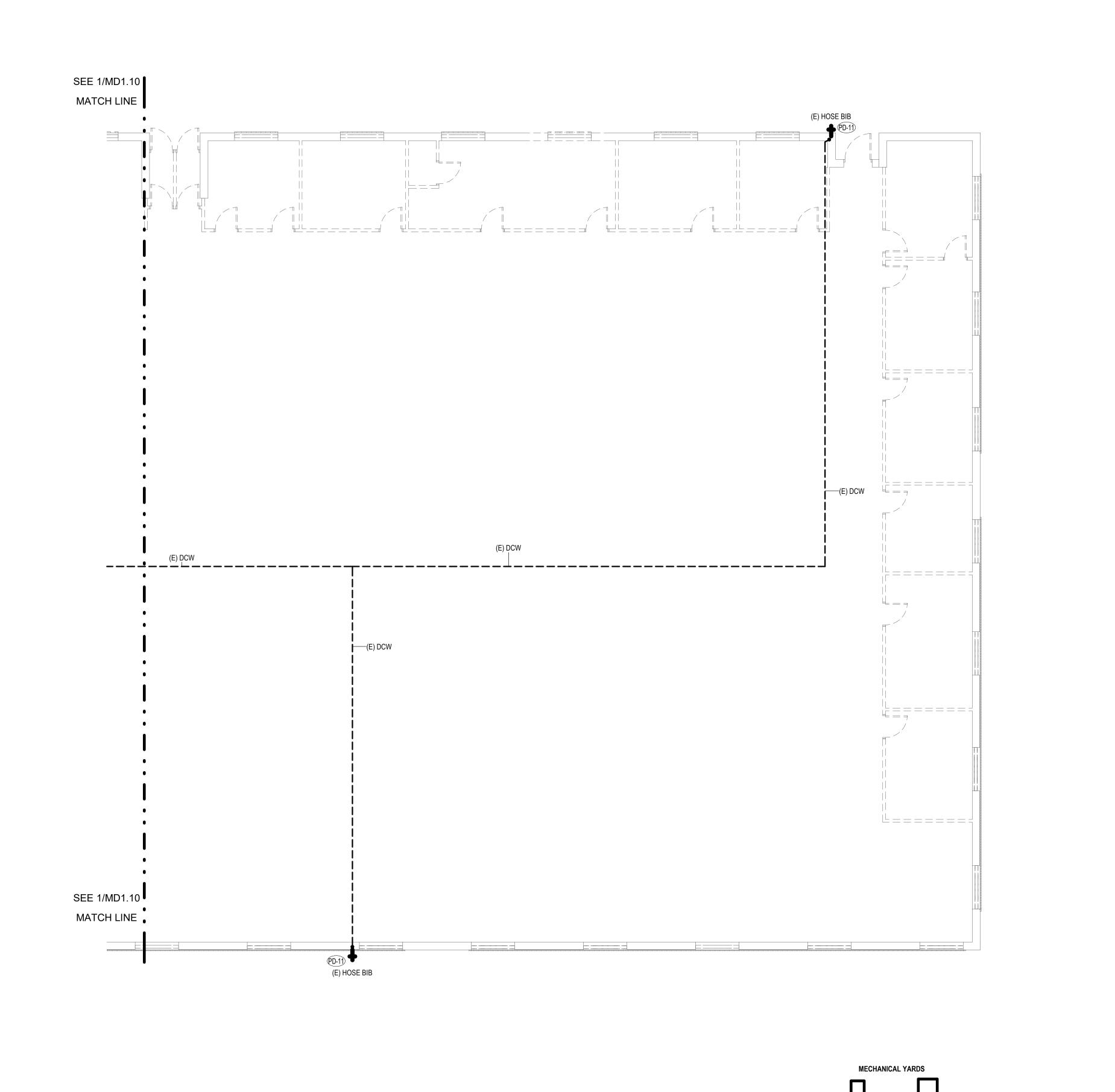
IMEG RESERVES PROPRIETARY RIGHTS, INCLUDING COPYRIGHTS, TO THIS DRAWING AND THE DATA SHOWN THEREON. SAID DRAWING AND/OR DATA ARE THE EXCLUSIVE PROPERTY OF IMEG AND SHALL NOT BE USED OR REPRODUCED FOR ANY OTHER PROJECT WITHOUT THE EXPRESS WRITTEN APPROVAL AND PARTICIPATION OF IMEG. ©2024 IMEG CONSULTANTS CORP.

PROJECT #24.3008_C23

SHELL

MAIN BUILDING

ISP NEW DISTRICT #6 FACILITY KEY PLAN (NOT TO SCALE)



PLUMBING DEMOLITION FLOOR PLAN - SHELL

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

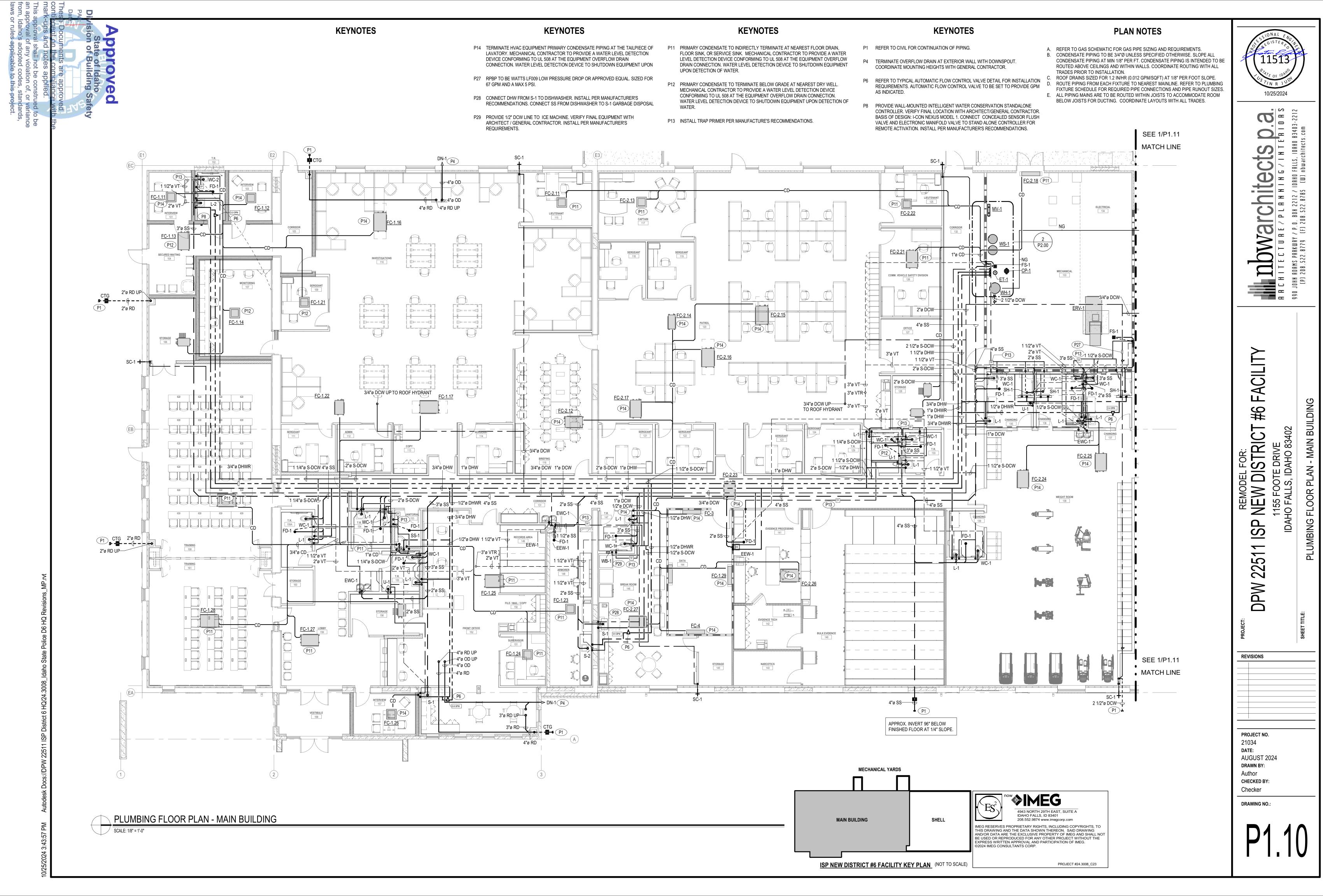
PLAN NOTES

A. EXISTING PIPING LOCATIONS AND SIZES ARE SHOWN FOR REFERENCE AND ARE BASED ON PREVIOUS DRAWINGS AND SITE VISITS. VERIFY LOCATIONS AND SIZES IN FIELD. **KEYNOTES** PD-9 REMOVE (E) ROOF DRAIN AND OVERFLOW COMPLETELY. COORDINATE PATCH WORK WITH GC. PD-10 REMOVE (E) VTR COMPLETELY. COORDINATE PATCH WORK WITH GC. SEE 1/MD1.21 MATCH LINE PD-10) P(E) 4"ø VTR PD-9 (E) RD (E) RD (E) 4"ø VTR PD-10 (E) 4"ø VTR REMODEL FOR:

ISP NEW DISTRICT #6 FACILITY

1155 FOOTE DRIVE
IDAHO FALLS, IDAHO 83402 (E) 4"ø VTR PD-9 (E) RD (E) RD DPW 22511 **•**(E) 4"ø VTR PD-10 REVISIONS SEE 1/MD1.21 MATCH LINE PROJECT NO. 21034 date: AUGUST 2024 DRAWN BY: MECHANICAL YARDS Author CHECKED BY: Checker 4943 NORTH 29TH EAST, SUITE A IDAHO FALLS, ID 83401 208.552.9874 www.imegcorp.com DRAWING NO.: PLUMBING DEMOLITION ROOF PLAN - MAIN BUILDING SHELL MAIN BUILDING IMEG RESERVES PROPRIETARY RIGHTS, INCLUDING COPYRIGHTS, TO THIS DRAWING AND THE DATA SHOWN THEREON. SAID DRAWING AND/OR DATA ARE THE EXCLUSIVE PROPERTY OF IMEG AND SHALL NOT BE USED OR REPRODUCED FOR ANY OTHER PROJECT WITHOUT THE EXPRESS WRITTEN APPROVAL AND PARTICIPATION OF IMEG. ©2024 IMEG CONSULTANTS CORP. SCALE: 1/8" = 1'-0" ISP NEW DISTRICT #6 FACILITY KEY PLAN (NOT TO SCALE) PROJECT #24.3008_C23

10/25/2024 3:43:45 PM Autodesk Docs://DPW 22511 ISP District 6 HQ/24.3008_Idaho State Police D6 HQ Revision



PLUMBING FLOOR PLAN - SHELL

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

KEYNOTES

P16 CAP STUB OUT FOR FUTURE EXPANSION. REFER TO GAS SCHEMATIC FOR SIZING REQUIREMENTS

PLAN NOTES

- A. REFER TO GAS SCHEMATIC FOR GAS PIPE SIZING AND REQUIREMENTS.
 B. CONDENSATE PIPING TO BE 3/4"Ø UNLESS SPECIFIED OTHERWISE. SLOPE ALL CONDENSATE PIPING AT MIN 1/8" PER FT. CONDENSATE PIPING IS INTENDED TO BE
- CONDENSATE PIPING AT MIN 1/8" PER FT. CONDENSATE PIPING IS INTENDED TO BE ROUTED ABOVE CEILINGS AND WITHIN WALLS. COORDINATE ROUTING WITH ALL TRADES PRIOR TO INSTALLATION.

 C. ROOF DRAINS SIZED FOR 1.2 IN/HR (0.012 GPM/SQFT) AT 1/8" PER FOOT SLOPE.

 D. ROUTE PIPING FROM EACH FIXTURE TO NEAREST MAINLINE. REFER TO PLUMBING FIXTURE SCHEDULE FOR REQUIRED PIPE CONNECTIONS AND PIPE RUNOUT SIZES.

 E. ALL PIPING MAINS ARE TO BE ROUTED WITHIN JOISTS TO ACCOMMODATE ROOM BELOW JOISTS FOR DUCTING. COORDINATE LAYOUTS WITH ALL TRADES.

FACILITY

REMODEL FOR:

ISP NEW DISTRICT #6 F

1155 FOOTE DRIVE
IDAHO FALLS, IDAHO 83402

DPW 22511

REVISIONS

PROJECT NO.

AUGUST 2024

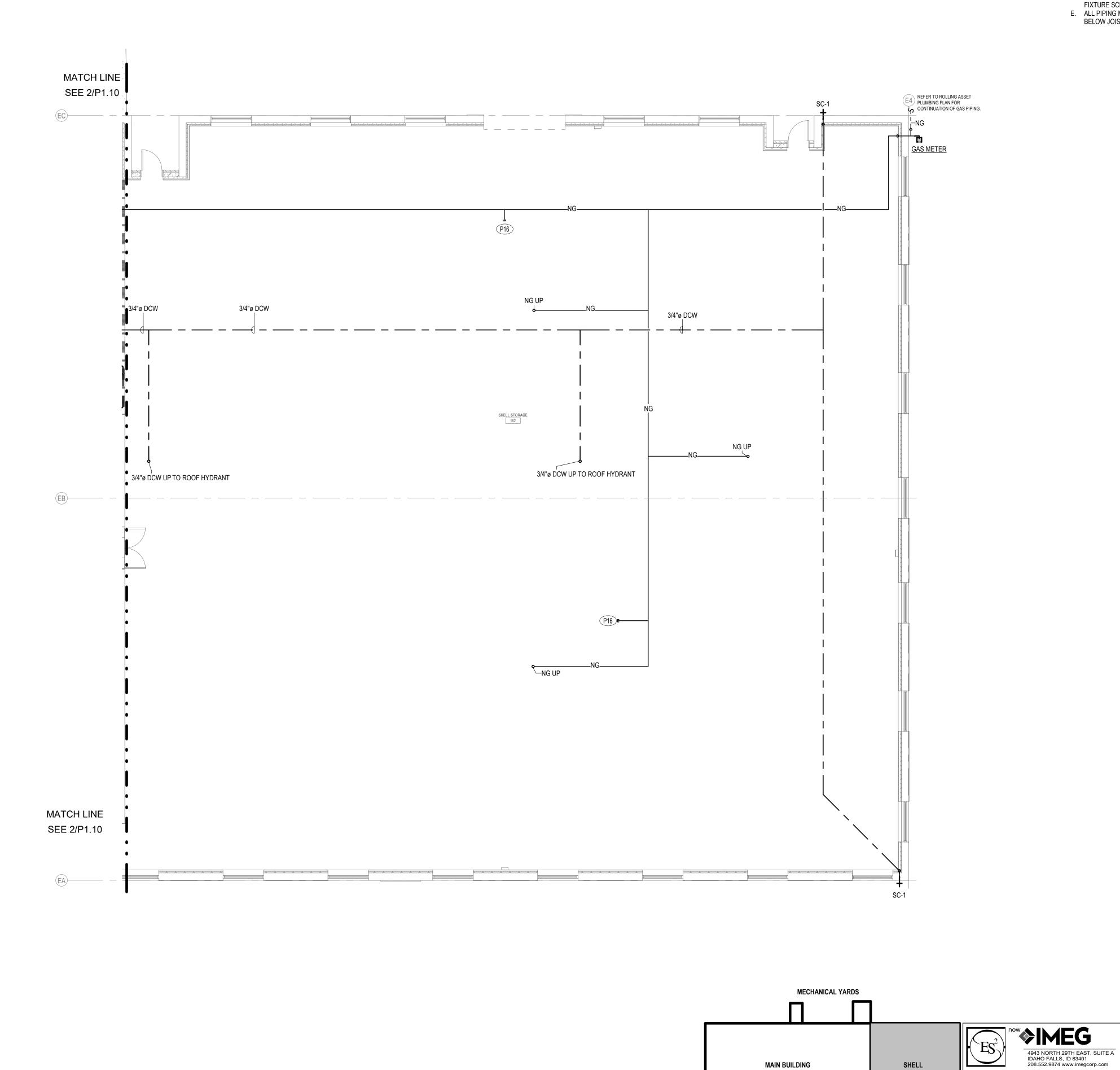
21034 DATE:

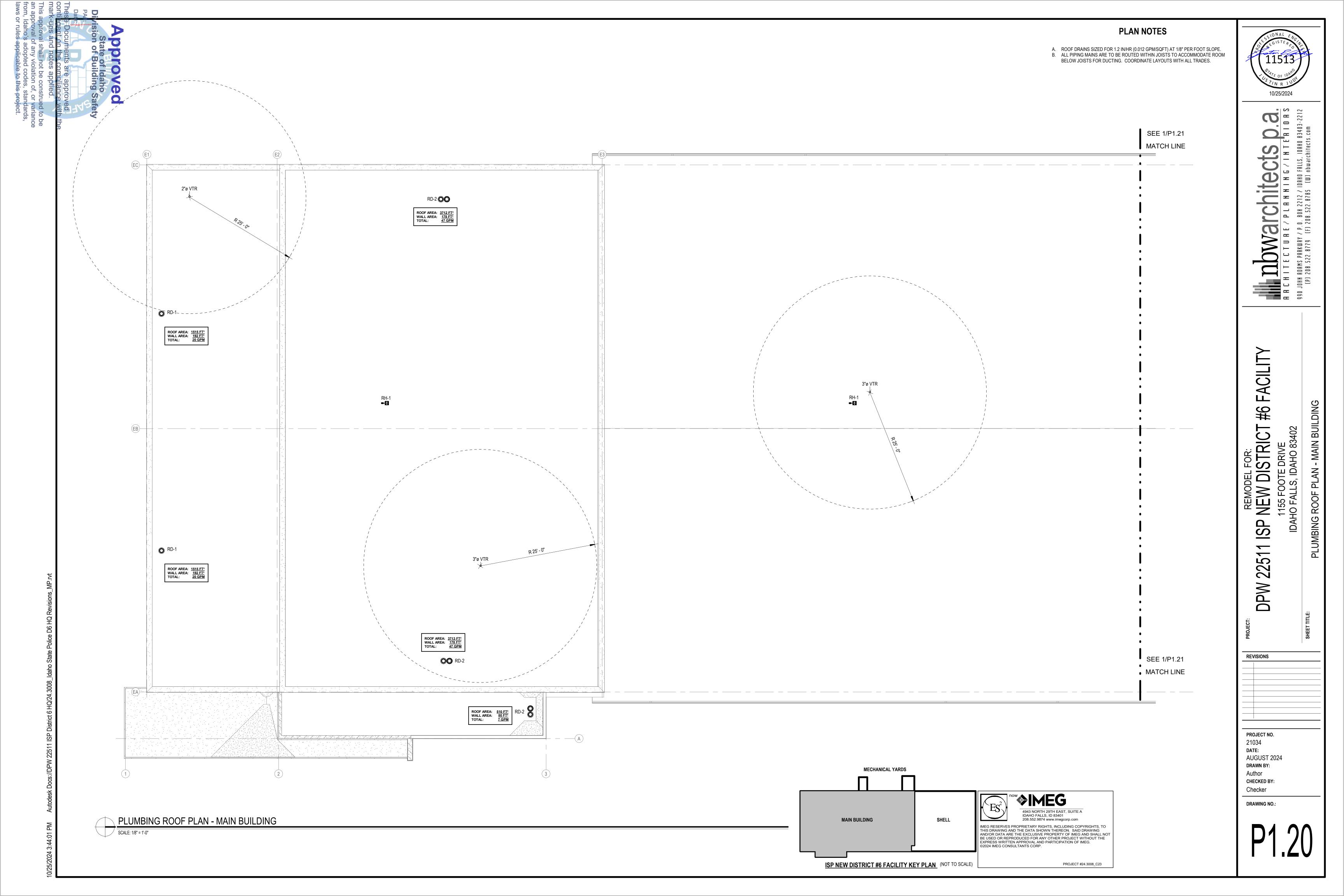
IMEG RESERVES PROPRIETARY RIGHTS, INCLUDING COPYRIGHTS, TO THIS DRAWING AND THE DATA SHOWN THEREON. SAID DRAWING AND/OR DATA ARE THE EXCLUSIVE PROPERTY OF IMEG AND SHALL NOT BE USED OR REPRODUCED FOR ANY OTHER PROJECT WITHOUT THE EXPRESS WRITTEN APPROVAL AND PARTICIPATION OF IMEG. ©2024 IMEG CONSULTANTS CORP.

PROJECT #24.3008_C23

ISP NEW DISTRICT #6 FACILITY KEY PLAN (NOT TO SCALE)

DRAWN BY: Author CHECKED BY: Checker DRAWING NO.:





A. ROOF DRAINS SIZED FOR 1.2 IN/HR (0.012 GPM/SQFT) AT 1/8" PER FOOT SLOPE.
 B. ALL PIPING MAINS ARE TO BE ROUTED WITHIN JOISTS TO ACCOMMODATE ROOM BELOW JOISTS FOR DUCTING. COORDINATE LAYOUTS WITH ALL TRADES.

11513 11513 11513

R R C H I T E C T U R E / P L R N N I N G / I N T E R I O R S 990 JOHN RORMS PRRKWRY / P.O. BOX 2212 / IORHO FRLLS, IORHO 83403-2213 (P) 208.522.8779 (F) 208.522.8785 (W) nbwarchitects.com

DPW 22511

REMODEL FOR:

1 ISP NEW DISTRICT #6 FACILITY

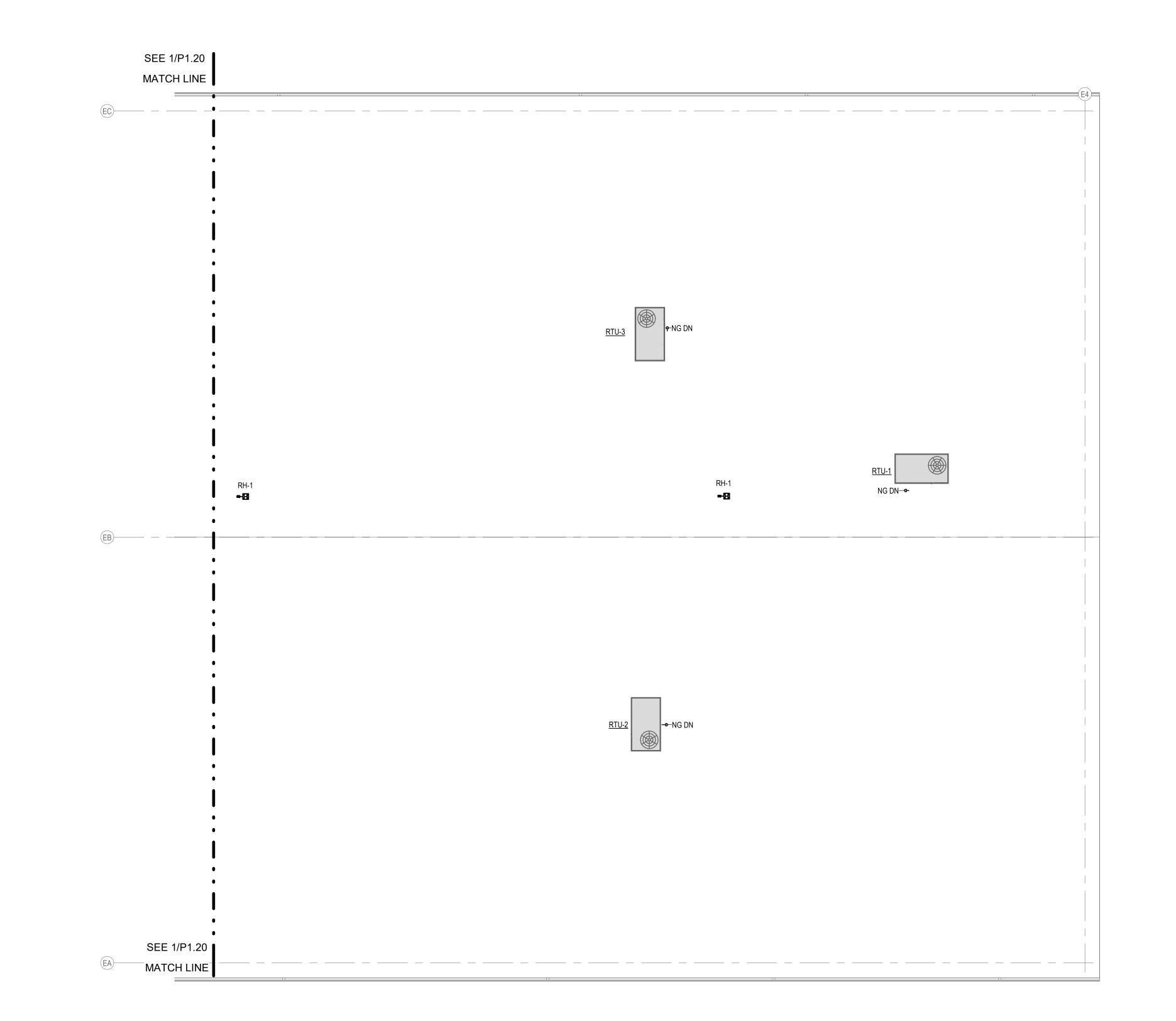
1155 FOOTE DRIVE
IDAHO FALLS, IDAHO 83402

PROJECT NO.
21034
DATE:
AUGUST 2024
DRAWN BY:
Author
CHECKED BY:

Checker

DRAWING NO.:

P1.21



MECHANICAL YARDS

ISP NEW DISTRICT #6 FACILITY KEY PLAN (NOT TO SCALE)

MAIN BUILDING

SHELL

4943 NORTH 29TH EAST, SUITE A IDAHO FALLS, ID 83401 208.552.9874 www.imegcorp.com

IMEG RESERVES PROPRIETARY RIGHTS, INCLUDING COPYRIGHTS, TO THIS DRAWING AND THE DATA SHOWN THEREON. SAID DRAWING AND/OR DATA ARE THE EXCLUSIVE PROPERTY OF IMEG AND SHALL NOT BE USED OR REPRODUCED FOR ANY OTHER PROJECT WITHOUT THE EXPRESS WRITTEN APPROVAL AND PARTICIPATION OF IMEG. ©2024 IMEG CONSULTANTS CORP.

PROJECT #24.3008_C23

PLUMBING ROOF PLAN - SHELL

KEYNOTES

- P1 REFER TO CIVIL FOR CONTINUATION OF PIPING. P7 PRIMARY CONDENSATE TO INDIRECTLY TERMINATE AT NEAREST FLOOR DRAIN,
- P9 COLD AND HOT WATER, AND VENT PIPING INTENDED TO BE ROUTED UNDER COUNTER TO SINK.
- P13 INSTALL TRAP PRIMER PER MANUFACTURE'S RECOMMENDATIONS.
- P26 RPBP TO BE WATTS LF009 LOW PRESSURE DROP OR APPROVED EQUAL. SIZED FOR 17 GPM AND A MAX 10 PSI.

PLAN NOTES

- A. REFER TO GAS SCHEMATIC FOR GAS PIPE SIZING AND REQUIREMENTS.
 B. CONDENSATE PIPING TO BE 3/4"Ø UNLESS SPECIFIED OTHERWISE. SLOPE ALL CONDENSATE PIPING AT MIN 1/8" PER FT. CONDENSATE PIPING IS INTENDED TO BE
 - ROUTED ABOVE CEILINGS AND WITHIN WALLS. COORDINATE ROUTING WITH ALL
- TRADES PRIOR TO INSTALLATION.

 C. ROOF DRAINS SIZED FOR 1.2 IN/HR (0.012 GPM/SQFT) AT 1/8" PER FOOT SLOPE.

 D. ROUTE PIPING FROM EACH FIXTURE TO NEAREST MAINLINE. REFER TO PLUMBING FIXTURE SCHEDULE FOR REQUIRED PIPE CONNECTIONS AND PIPE RUNOUT SIZES.



FACILITY

REMODEL FOR:

ISP NEW DISTRICT #

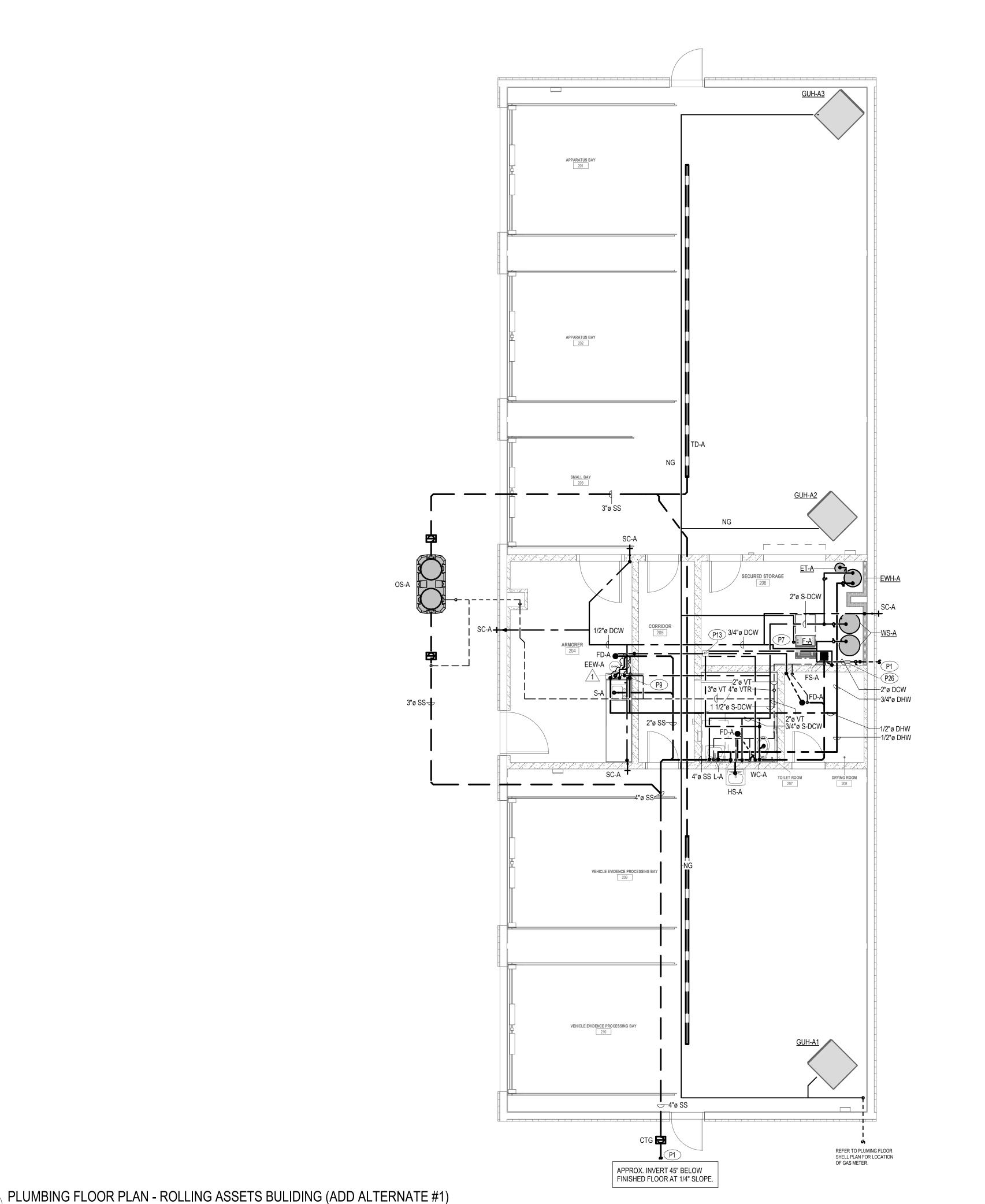
1155 FOOTE DRIVE
IDAHO FALLS, IDAHO 83402

DPW 22511

REVISIONS 1 IDOPL COMMENTS

PROJECT NO. 21034 DATE: AUGUST 2024 DRAWN BY: CHECKED BY:

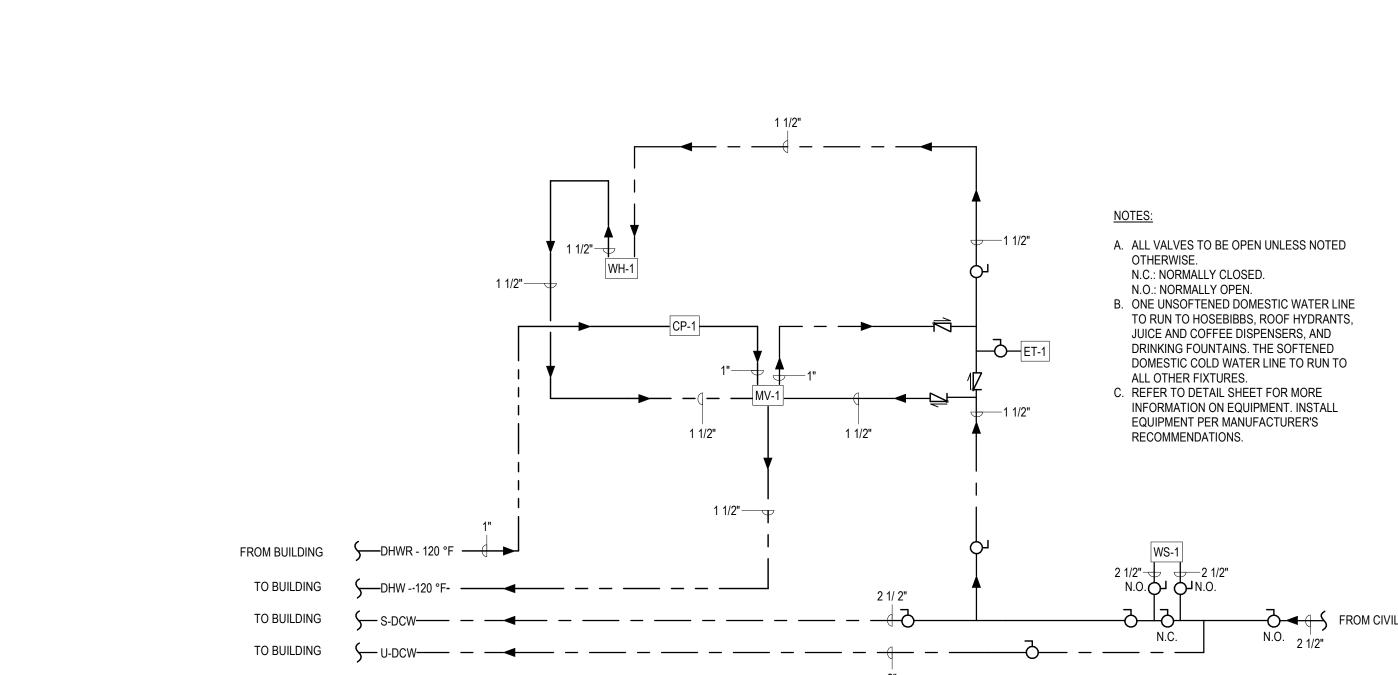
DRAWING NO.:

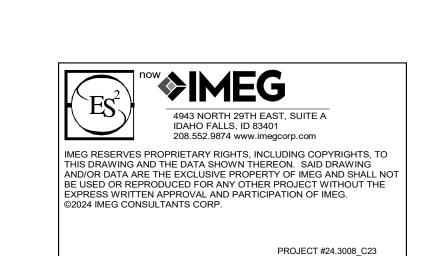


SCALE: 3/16" = 1'-0"

WATER SCHEMATIC

ROLLING ASSET BUILDING





DWarchitects D.a.

RRCHITECTURE/PLANNING/INTERIORS

990 JOHN RORMS PARKWAY / P.O. BOX 2212 / IDRHO FALLS, IDAHO 83403-2212

[P] 208.522.879 [F] 208.522.8785 [W] nbwarchitects.com

FACILITY

9#

REMODEL FOR:

ISP NEW DISTRICT #

1155 FOOTE DRIVE
IDAHO FALLS, IDAHO 83402

SP

DPW 2251

REVISIONS

PROJECT NO. 21034 DATE:

AUGUST 2024 DRAWN BY: Author CHECKED BY: Checker

REVISIONS

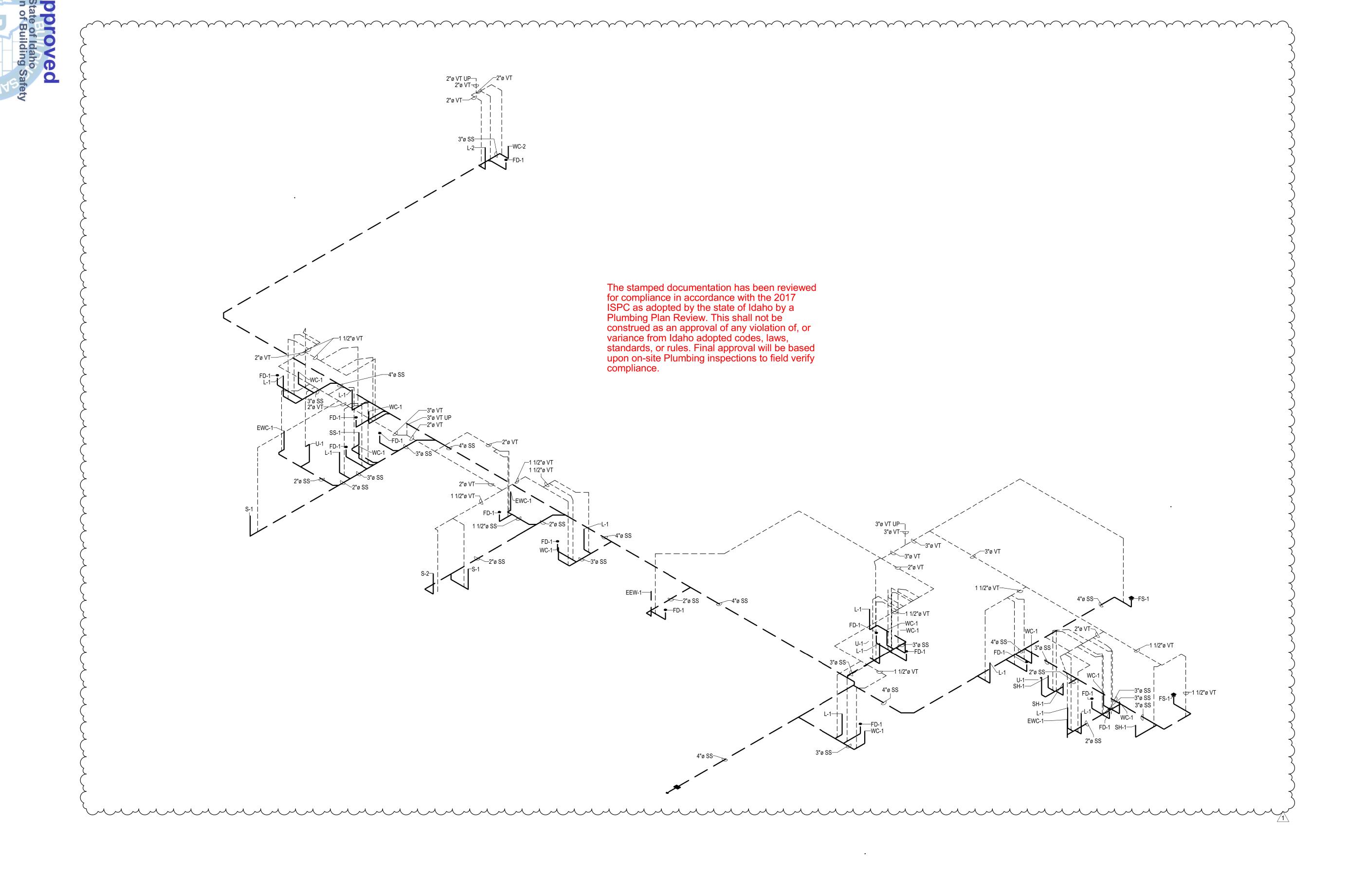
DRAWN BY:

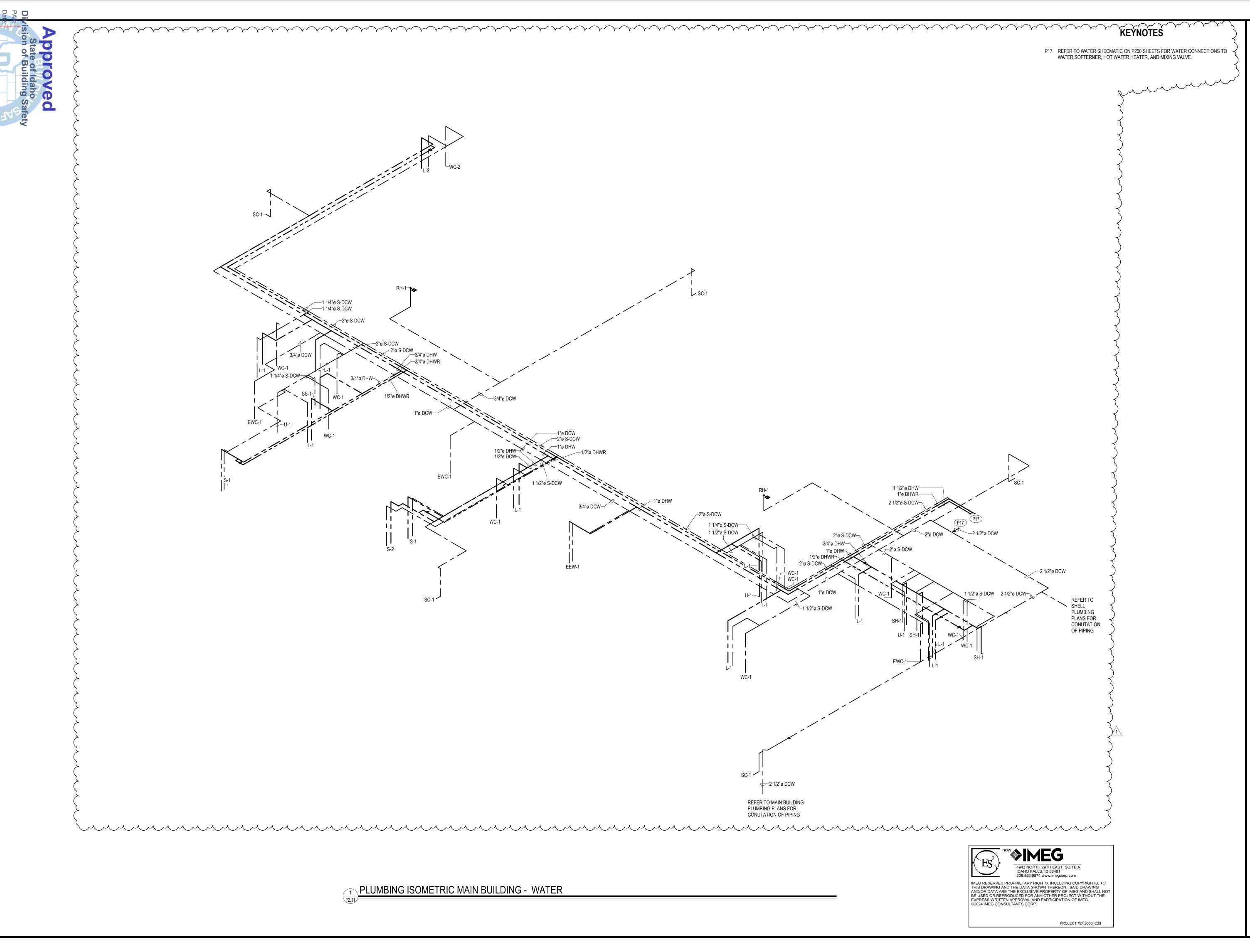
*** IMEG

IMEG RESERVES PROPRIETARY RIGHTS, INCLUDING COPYRIGHTS, TO THIS DRAWING AND THE DATA SHOWN THEREON. SAID DRAWING AND/OR DATA ARE THE EXCLUSIVE PROPERTY OF IMEG AND SHALL NOT BE USED OR REPRODUCED FOR ANY OTHER PROJECT WITHOUT THE EXPRESS WRITTEN APPROVAL AND PARTICIPATION OF IMEG. ©2024 IMEG CONSULTANTS CORP.

4943 NORTH 29TH EAST, SUITE A IDAHO FALLS, ID 83401 208.552.9874 www.imegcorp.com

PROJECT #24.3008_C23





12/09/2024

ISP NEW DISTRICT #6 FACILITY
1155 FOOTE DRIVE
IDAHO FALLS, IDAHO 83402

1 IDOPL COMMENTS

PROJECT NO. 21034 DATE: AUGUST 2024 DRAWN BY: Author

DPW 2251

REVISIONS

Checker DRAWING NO.:

CHECKED BY:



ISP NEW DISTRICT #6 FACILITY
1155 FOOTE DRIVE
IDAHO FALLS, IDAHO 83402

DPW 22511 REVISIONS 1 IDOPL COMMENTS

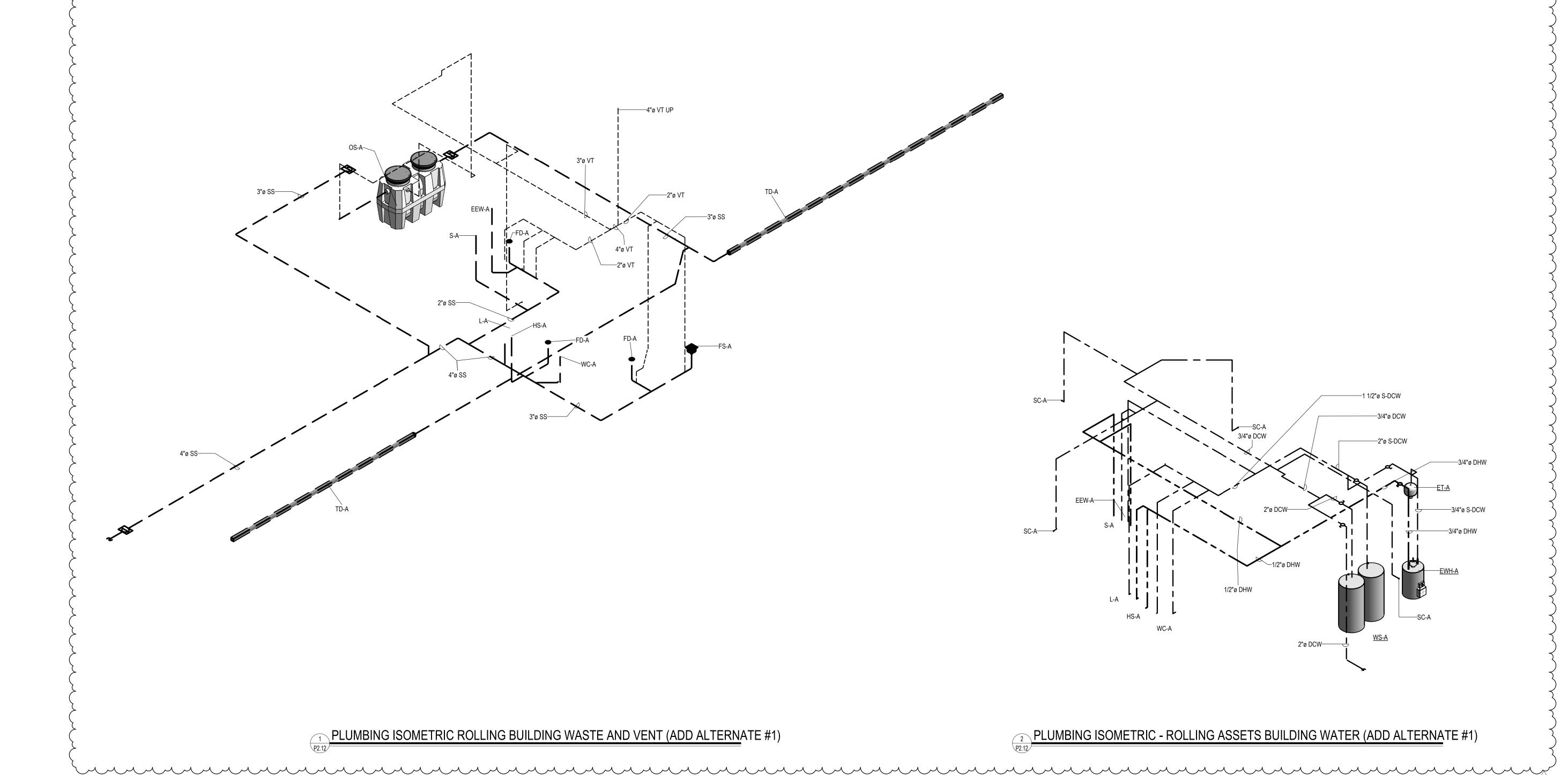
PROJECT NO. 21034 DATE: AUGUST 2024 DRAWN BY: Author

> CHECKED BY: Checker DRAWING NO.:

4943 NORTH 29TH EAST, SUITE A IDAHO FALLS, ID 83401 208.552.9874 www.imegcorp.com

PROJECT #24.3008_C23

IMEG RESERVES PROPRIETARY RIGHTS, INCLUDING COPYRIGHTS, TO THIS DRAWING AND THE DATA SHOWN THEREON. SAID DRAWING AND/OR DATA ARE THE EXCLUSIVE PROPERTY OF IMEG AND SHALL NOT BE USED OR REPRODUCED FOR ANY OTHER PROJECT WITHOUT THE EXPRESS WRITTEN APPROVAL AND PARTICIPATION OF IMEG. ©2024 IMEG CONSULTANTS CORP.



TYPICAL AIR GAP DEVICE FOR DISHWASHER

5

TYPICAL WATER HEATER

KEYNOTES:

1. DOMESTIC HOT WATER SUPPLY

6. SEISMIC STRAP - SECURE TO WALL. 7. P&T RELIEF VALVE - INDIRECT TO NEAREST FLOOR SINK/DRAIN.

8. DOMESTIC COLD WATER SUPPLY. 9. PROVIDE PIPING CONTINUATION TO ADDITIONAL WATER HEATERS AS REQUIRED PER WATER PIPING SCHEMATIC. INSTALL PIPING TO ADDITIONAL WATER HEATERS PER MANUFACTURER'S RECOMMENDATION. ARRANGE PIPING FOR EQUAL PRESSURE DROP TO EACH WATER HEATER IN A

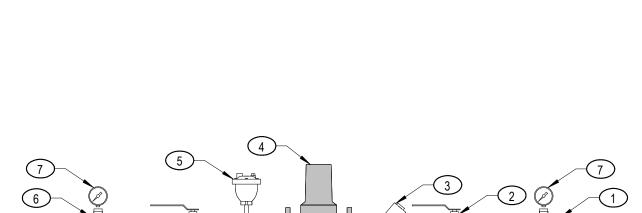
REVERSE RETURN CONFIGURATION FOR INLET AND OUTLET PIPING. 10. EXPANSION TANK - HANG OR LOCATE ON FLOOR. ONLY ONE EXPANSION TANK IS REQUIRED PER HOT WATER HEATING 11. PROVIDE A 90 DEGREE ELBOW TO WATER HEATER IF A SINGLE WATER HEATER IS INSTALLED.

NOTES:

B. PROVIDE THERMOWELL AT THE INLET AND OUTLET OF EACH CONNECTION TO

C. PIPING CONNECTION LOCATIONS SHOWN ON THE DETAIL REPRESENT A TYPICAL WATER HEATER AND MAY NOT CONVEY THE ACTUAL CONNECTION LOCATIONS OF THE SPECIFIED EQUIPMENT. INSTALL PIPING PER MANUFACTURERS RECOMMENDATIONS.

WATER HEATER PER ENERGY CODE REQUIREMENTS IF WATER HEATING SYSTEM IS NOT EQUIPPED WITH A HOT WATER RECIRCULATING SYSTEM. E. PROVIDE A WATER TIGHT DRAIN PAN



KEYNOTES:

KEYNOTES:

AIR GAP.

1. DISHWASHER DRAIN LINE.

GARBAGE DISPOSAL.

2. AIR GAP DEVICE ABOVE RIM OF SINK.

3. AIR GAP DEVICE ENLARGED INSIDE VIEW.

PUMP DISCHARGE - TO WATER HEATER / MIXING VALVE.
 BALL VALVE (TYP).

3. CHECK VALVE (TÝP). GIRC PUMP WITH INTEGRAL TEMPERATURE SENSOR.
 AUTOMATIC AIR VENT (TYP).

6. PUMP INLET.7. TEMPERATURE GAUGE.

OPERATION.

A. PUMP TO VARY FLOW TO MAINTAIN SETPOINT RETURN WATER TEMPERATURE. B. PUMPS TO ALTERNATE

TYPICAL HOT WATER RECIRCULATION PUMP

9 TYPICAL PRESSURE DROP ACTIVATED TRAP PRIMER

KEYNOTES:

1. AVOID DIRECT INSTALLATION TO PREVENT FOREIGN MATERIAL FROM ENTERING DIRECTLY INTO PRIMER. . LINE SHUT OFF VALVE.

UNION CONNECTION. TRAP PRIMER VALVE FILTER SCREEN. FOUR VIEW HOLES.

MI-GAP AIR GAP FITTING. 8. TRAP PRIMER VALVE SHOULD BE MOUNTED ONE FOOT ABOVE THE FINISHED FLOOR FOR EVERY 20 FEET OF PRIMER LINE. WATER TRAP.

10. SEWER GAS. 11. FLOOR DRAIN/ SINK TRAP PRIMER CONNECTION. 12. SHUTOFF VALVE.

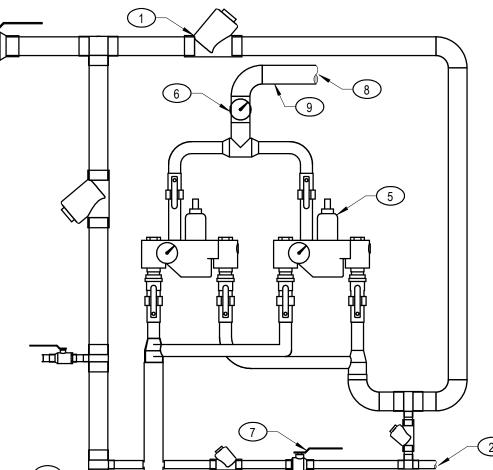
NOTES:

A. APPLIES TO ALL DRAINS/ FLOOR SINKS UNLESS NOTED OTHERWISE.

B. DO NOT INSTALL THE TRAP SEAL PRIMERS CLOSER THAN 40' APART WHEN USING THE SAME POTABLE WATER SUPPLY LINE. C. THE DEVICE SHOULD BE LOCATED WITHIN 20' OF THE VALVE OR FAUCET FOR OPTIMAL DISCHARGE.

D. INSTALL TRAP PRIMER IN ACCESSIBLE LOCATION. PROVIDE ACCESS PANEL IF NECESSARY. COORDINATE ACCESS PANEL WITH GENERAL CONTRACTOR/ ARCHITECT

CONNECT ONLY TO THE BRANCH PIPING OF FIXTURES THAT SEE FREQUENT USE. F. TRAP PRIMERS SHOULD BE CYCLED AT LEAST SIX TIMES AFTER INSTALLATION TO ENSURE OPTIMUM PERFORMANCE. G. USE ONLY TEFLON TAPE ON FITTINGS.



TYPICAL MIXING VALVE

KEYNOTES: 1. CHECK VALVE (TYP).

DHWR. 3. DHW FROM WATER HEATER(S). 4. DCW TO WATER HEATER(S) 5. MIXING VALVE (TYP).

6. THERMOSTAT. 7. BALANCING VALVE. 8. TEMPERED DHW TO BUILDING. 9. 124°F DHW. 10. DCW SUPPLY.

3. SLEEVE ROOF CONSTRUCTION AS REQUIRED

TYPICAL VENT THROUGH ROOF



KEYNOTES: BALL VALVE (TYP). 2. THERMOSTATIC FLOW CONTROL VALVE (NSF 61 CERTIFIED).
3. CHECK VALVE. NOTES: A. THERMOSTATIC FLOW CONTROL VALVE TO BE CALEFFI 01325/20 NA OR B. REFER TO DRAWINGS FOR LOCATIONS OF THERMOSTATIC FLOW CONTROL VALVES. C. GPM REQUIRED FOR EACH THERMOSTATIC FLOW CONTROL VALVE IS INDICATED ON DRAWINGS. D. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

TYPICAL THERMOSTATIC FLOW CONTROL VALVE

2. BALL VALVE (TYP).

3. UNION (TYP).

DRAIN PAN.

4. WATER HEATER.

12. FLOOR DRAIN.

A. PROVIDE CONDENSATE DRAIN IF REQUIRED. ROUTE TO NEAREST FLOOR

EQUIPMENT.

D. PROVIDE HEAT TRAPS FOR EACH

MADE OF CORROSION-RESISTANT MATERIAL BENEATH EACH WATER HEATER. PROVIDE A MINIMUM 3/4" DRAIN TO THE NEAREST FLOOR SINK/DRAIN.

FACILITY

9#

SP NEW DISTRICT # 1155 FOOTE DRIVE IDAHO FALLS, IDAHO 83402

<u>S</u>

225

DPW

5. 16" SQUARE CONC. PAD TROWEL SMOOTH AND EDGE 6. 1/8" C.I. BEND

1. CLEANOUT AND ACCESS COVER. TOP OF COVER TO BE FLUSH W/

3. BRASS CLEANOUT PLUG W/ COUNTER SUNK HEAD

TOP OF FLOOR

2. FLOOR LINE

4. FINISH GRADE

KEYNOTES:

C.I. WASTE LINE. LENGTH TO SUIT 8. WASTE LINE

9. 1/8" BEND IF CLEANOUT OCCURS AT END OF LINE

10. BALANCE OF PIPING SAME AS CLEANOUT TO GRADE A. CLEANOUT NOT TO BE LOCATED IN

CARPETED AREA

KEYNOTES: 1. CHROME WALL COVER AND SCREW

CLEANOUT TO GRADE (COTG)

5

2. MAY EXTEND AS A WASTE OR VENT LINE 3. WALL

4. PLUGGED TEE

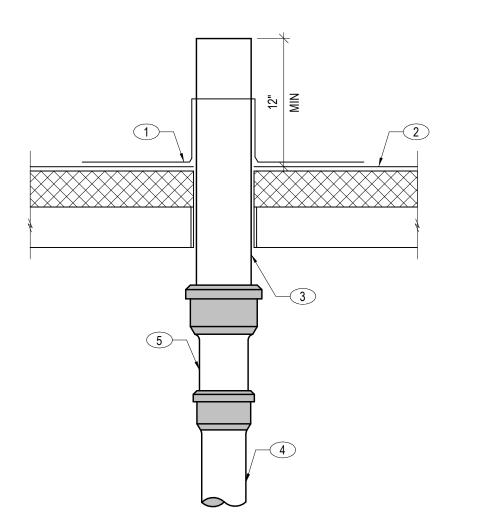
WASTE OR VENT PIPING FLOOR LINE

TYPICAL WALL CLEANOUT

FLOOR CLEANOUT (FCO)

TYPICAL CLEANOUT

1



KEYNOTES:

 SINGLE PLY ROOF JACK FURNISHED AND INSTALLED BY ROOFING CONTRACTOR. SEAL WATERTIGHT TO VENT STACK

ROOFING MATERIAL

VENT STACK

5. INCREASER WHEN REQUIRED

REVISIONS PROJECT NO.

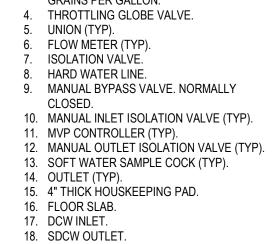
21034 DATE: AUGUST 2024 DRAWN BY: Author CHECKED BY: Checker

KEYNOTES:

BLENDING VALVE, CLA VAL NO. 20-01: RATIO OF HARD/SOFT WATER = 30% HARD WATER 70% SOFTENED WATER.

2. SENSING LINES.

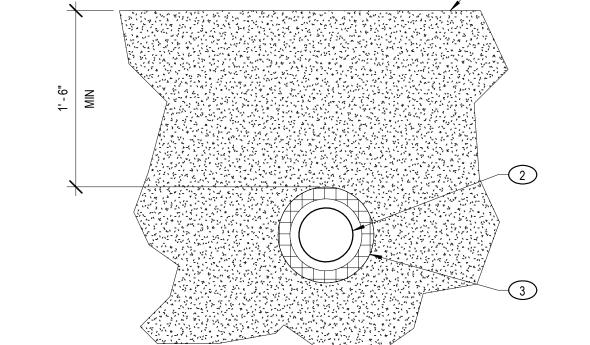
 SENSING LINES.
 SAMPLING COCK. WATER SOFTENING IN CONJUNCTION WITH BLENDING VALVE SHALL MAINTAIN HARDNESS OF 3 TO 5 GRAINS PER GALLON.
 THROTTLING GLOBE VALVE.
 UNION (TYP). FLOW METER (TYP). ISOLATION VALVE. HARD WATER LINE.



DRAIN PIPING FULLSIZE TO INDIRECT AT NEAREST DRAIN/ FLOOR SINK.

A. PIPING CONNECTION AND CONFIGURATION SHOWN ON THE DETAIL REPRESENT A TYPICAL SYSTEM (SINGLE OR MORE). INSTALL PER EQUIPMENT MANUFACTURERS INSTALLATION INSTRUCTIONS BASED ON QUANTITY FOR COMPLETE AND FUNCTIONAL OPERATION.

B. REFER TO EQUIPMENT SCHEDULE FOR QTY OF SOFTENERS.

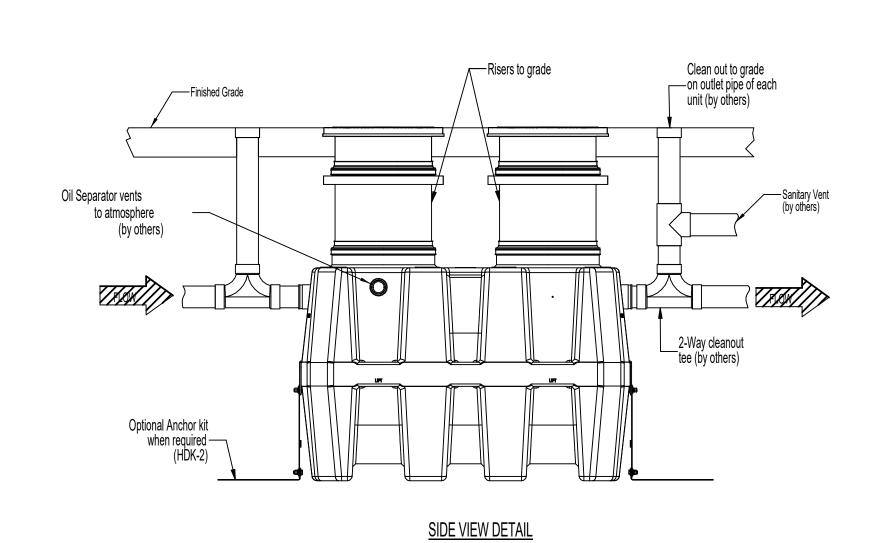


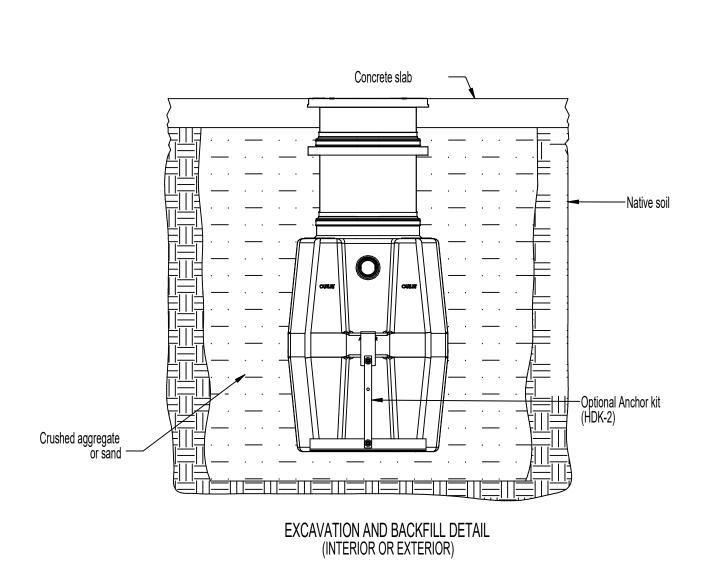
KEYNOTES:

GRADE.
 GAS PIPING.
 GALVANIZED STEEL PIPE SLEEVE.

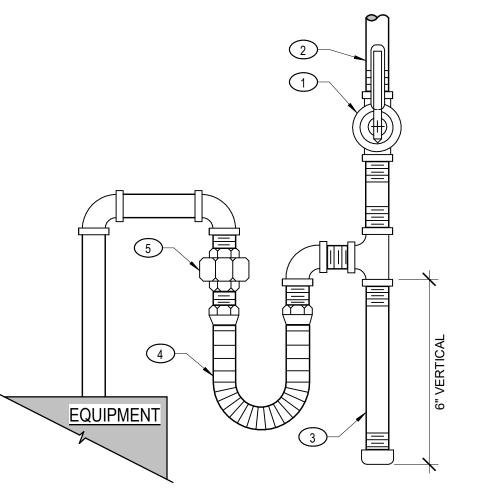
TYPICAL WATER SOFTENER 95.11

BRINE TANK

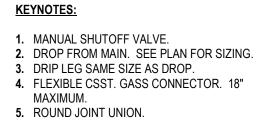




TYPICAL GREASE OR SAND/OIL INTERCEPTOR



TYPICAL GAS PIPING UNDERGROUND



TYPICALGAS LINE CONNECTION

- **KEYNOTES:** 1. WATER HEATER OR STORAGE TANK. 2. MINIMUM 3" CONCRETE
- HOUSEKEEPING PAD. 3. 2" WIDE 22 GA STEEL STRAP AROUND WATER HEATER. SECURE TO BLOCKING PER 4C/S5.02 WITH 3/8"Ø MB (2 PER STRAP)(2 STRAPS PER WATER HEATER). 4. STRAP EITHER HAS TO LOOP AROUND WATER HEATER 1.5 TIMES OR USE
- TWO STRAPS WITH THIS CONFIGURATION. 5. LINE CONNECTING POINTS OF SUPPORT MUST PASS THROUGH TANK
- AS SHOWN. 6. 3/4" X 22 GA METAL STRAP ENCIRCING THE TANK FROM FRONT AND BACK. 7. SECURE METAL STRAP BRACING TO WOOD STUD WITH 1/4" Ø X 3" LAG SCREW WITH FLAT WASHER.

A. PROVIDE A WATER TIGHT DRAIN PAN MADE OF CORROSION-RESISTANT MATERIAL BENEATH EACH TANK. PROVIDE A MINIMUM 3/4" DRAIN TO THE NEAREST FLOOR SINK/DRAIN.

PROJECT NO. 21034 DATE: AUGUST 2024 DRAWN BY: Author CHECKED BY: Checker

FACILITY

9#

REMODEL FOR:

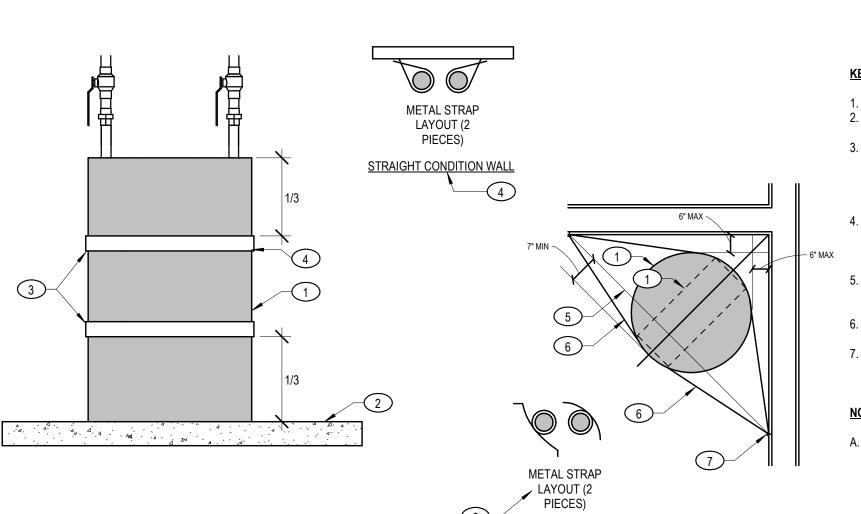
ISP NEW DISTRICT #

1155 FOOTE DRIVE
IDAHO FALLS, IDAHO 83402

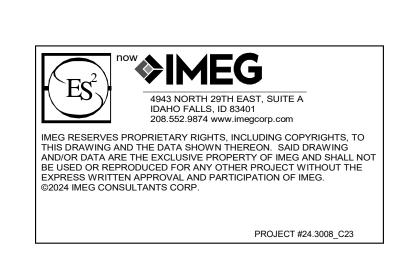
2251

DPW

REVISIONS







			STORA	GE		HEATIN	G ELEMENT	UNIT DIME	NSIONS (IN)	OPERATING	ELECT	RICAL
MARK	MANUFACTURER	MODEL NO.	RECOVERY (GAL/H)	VOL (GAL)	MAX TEMP RISE (°F)	QTY	KW	HEIGHT	DIAMETER	WEIGHT (LB)	VOLT	PH
EWH-A	A.O. SMITH	DEL-30	20	36	90	2	4.5	32	24	118	208	1

				MIXING V	ALVE (MV)									
MARK	MANUFACTURER	MODEL	FLOW	/ GPM	INLET SIZE (IN)	OUTLET SIZE (IN)	UNIT DIMENSIONS (IN)							
WARK	WANUFACTURER	WIODEL	MIN FLOW	DESIGN FLOW	INLET SIZE (IIV)	OUTLET SIZE (IIV)	LENGTH	LENGTH WIDTH HEIGHT						
MV-1	LEONARD	XL-20032-LF-BDT	1	12.0	1.5	1.5	18	6 35						

- ARMSTRONG, ACORN, BRADLEY, LEONARD, LAWLER, AND WATTS ARE APPROVED MANUFACTURERS. REFER TO MANUFACTURER AND MODEL FOR BASIS OF DESIGN. PROVIDE WITH HOUSING AND INTEGRAL THERMOSTATS.
- VALVE TO HAVE A MAX PRESSURE DROP OF 5 PSI AT THE SCHEDULED FLOW RATE.

PUMPS TO BE SUITABLE FOR POTABLE WATER.

WATER HEATER TO HAVE 2 ELEMENTS WITH ONLY ONE RUNNING AT A TIME (NON-SIMULTANEOUS).

			CIRCULAT	ING PUM	P (CP)				
MADIZ	DUTY	MANUFACTURED	MODEL NO	PU	PUMP ELECTRICAL			UNIT	
MARK	ווטט	MANUFACTURER	MODEL NO.	FLOW (GPM)	HEAD (FT)	HP	VOLT	PH	WEIGHT
CP-1	DHWR	GRUNDFOS	MAGNA	6.0	15.0	0.17	120	1	50

GRUNDFOS, TACO, AND BELL AND GOSSETT ARE APPROVED MANUFACTURERS. REFER TO MANUFACTURER AND MODEL FOR BASIS OF DESIGN. PROVIDE WITH AQUASTAT KIT.

	MINIMUM PLUM	BING PIPING	INSULATION	ON TH	ICKNESS	5	
SYSTEM TYPES	FLUID OPERATING TEMP RANGE AND USAGE (°F)	CONDUCTIVITY (BTU*IN/(h*FT2*°F))	MEAN RATING TEMP (°F)	≤ 1	1 1/4	1 1/2	2≤
DHW (120°F, 140°F), DHWR (120°F, 140°F)	105 - 140	0.22 - 0.28	100	1.0	1.25	1.5	2
DCW	40 - 60	0.21 - 0.27	75	0.5	0.5	1.0	1.0
ROOF DRAINS	ALL	0.27	N/A	0.5	0.5	0.5	0.5

BASED ON THE CURRENTLY ADOPTED INTERNATIONAL ENERGY CONSERVATION CODE.

- PROVIDE ALUMINUM JACKETS ON ALL PIPING INSULATION LOCATED EXTERIOR OF THE BUILDING. PROVIDE PVC JACKET ON ALL EXPOSED PIPING INSULATION INSULATE ALL ROOF DRAIN PIPING WITH MINIMUM 1/2" INSULATION. INSULATE ALL ROOF DRAIN AND OVERFLOW DRAIN BOWLS WITH MINIMUM 1" INSULATION.
- INSULATION TO BE 0.27 BTU*IN/(H*FT2*°F). PROVIDE PROTECTIVE SHIELDING PIPE COVERS ON ALL PIPES EXPOSED AT ADA PLUMBING FIXTURES. PROTECTIVE SHIELDING PIPE COVERS TO COMPLY
- WITH ADA REQUIREMENTS. PROVIDE 1 1/2" MINERAL FIBER, TYPE I, PREFORMED PIPE INSULATION FOR INDOOR HEAT TRACED SANITARY WASTE PIPING. PROVIDE 2" CELLULAR GLASS

PIPE INSULATION FOR OUTDOOR HEAT TRACED SANITARY WASTE PIPING. REFER TO SPECIFICATIONS FOR ADDITIONAL INSULATION REQUIREMENTS.

	PLUMBING	VALVE SCHEDULE	
ACTION	NPS ≤ 2"	2" < NPS < 4"	NPS ≥ 4"
SHUT-OFF SERVICE	BALL VALVE LEAD FREE BRONZE VALVE TWO-PIECE FULL PORT BASIS OF DESIGN: APOLLO 77FLF FOR GAS: APOLLO 80-100	GATE VALVE LEAD FREE IRON VALVE FULL PORT BASIS OF DESIGN: APOLLO 610FLF	BUTTERFLY VALVE LEAD FREE IRON VALVE ALUMINUM BRONZE DISC BASIS OF DESIGN: APOLLO LC149
CHECK VALVE	SWING VALVE LEAD FREE BRONZE VALVE BASIS OF DESIGN: APOLLO 161TLF	LEAD FREE IRON VALVE LEVER & WIEGHT OR SPRING BASIS OF DESIGN: APOLLO 910FLW-LF	SWING VALVE LEAD FREE IRON VALVE LEVER & WEIGHT OR SPRING BASIS OF DESIGN: APOLLO

1. PROVIDE SHUT-OFF VALVES & UNIONS AT INLETS & OUTLETS OF ALL EQUIPMENT FOR SERVICING PURPOSES.

- 2. USE DIELECTRIC UNIONS FOR ALL DISSIMILAR METALS. B. USE CORRECT ADAPTERS AND COUPLINGS FOR THE SPECIFIED PIPING MATERIALS.
- 4. ALL VALVES MUST BE COMPATIBLE WITH ANTICIPATED FLUID PRESSURES, FLUID TEMPERATURES, AND FLUID TYPES; INCLUDING GLYCOL CONCENTRATIONS

. PROVIDE DIELECTRIC FITTINGS FOR ALL DISSIMILAR METALS.

- AND POTABLE WATER REQUIREMENTS, ETC. 5. ALL VALVES MUST MEET A MINIMUM PRESSURE RATING OF 125 PSI AT A TEMPERATURE OF 200 °F.
- 6. BRONZE VALVES TO BE MADE WITH DEZINCIFICATION-RESISTANT MATERIALS.

	IBING PIPING MATERIAL SCHEDULE
LOCATION	PIPE TYPE
DOMESTIC WATER	
BELOW GRADE	ASTM B 88 TYPE K SOLDERED COPPER
ABOVE GRADE	ASTM B 88 TYPE L SOLDERED COPPER
WASTE	
BELOW GRADE	ASTM D 2665 PVC SCHEDULE 40, SOCKET FITTINGS DWV
ABOVE GRADE	ASTM A 888 CAST IRON, NO HUB SYSTEM
STORM DRAIN	
BELOW GRADE	ASTM D 2665 PVC SCHEDULE 40, SOCKET FITTINGS DWV
ABOVE GRADE	ASTM A 888 CAST IRON, NO HUB SYSTEM
VENT	
ALL	ASTM A 888 CAST IRON, NO HUB SYSTEM
GAS	
BELOW GRADE	ASTM D 2513 POLYETHYLENE
ABOVE GRADE	SCHEDULE 40 STEEL TO COMPLY WITH EITHER ASME B36.10, ASTM A 53, OR ASTM A 106
CONDENSATE	
NON-RATED AIR PLENUM	ASTM D 2665 PVC SCHEDULE 40, SOCKET FITTINGS DWV

PLUMBING FIXTURES PROVIDED TO SATISFY PLUMBING CODE REQUIREMENTS AND GENERAL CONFORMANCE WITH PROJECT. VERIFY ACCPETANCE OF ALL FIXTURES WITH ARCHITECT AND OWNER PRIOR TO PURCHASE AND INSTALLATION. VERIFY ACCEPTANCE OF ALL FIXTURE COLORS, SIZES, LOCATIONS, AND FINISHES. VERIFY FIXTURE MOUNTING TYPE AND ALL OTHER INSTALLATION REQUIREMENTS.

		PLUMBI	NG FI	X I UF	(ES			
\dashv	MARK	DESCRIPTION	C.W.	H.W.	WASTE	VENT	ELECTRICAL	
$\exists \bot$	EEW-1	WALL MOUNTED EYE / FACE WASH SINK, WITH STAINLESS STEEL BOWL. PROVIDE WITH MIXING VALVE (BRADLEY S19-2000)	1/2"	1/2"	1 1/2"	1 1/2"	-	BRADLEY S19-222B MIXING VALVE: BRADLEY S19-2000
	EEW-A	WALL MOUNTED EYE / FACE WASH SINK, WITH STAINLESS STEEL BOWL. PROVIDE WITH MIXING VALVE (BRADLEY S19-2000)	1/2"	1/2"	1 1/2"	1 1/2"	-	BRADLEY S19-222B MIXING VALVE: BRADLEY S19-2000
7	EWC-1	INDOOR BI-LEVEL ELECTRIC WATER COOLER, ADA, W/ BOTTLE FILLING STATION, FILTERED, REFRIGERATED, FILTERED, 120V, 1PH	1/2"	-	1 1/2"	1 1/2"	120V	ELKAY LZSTL8WSSP
	FD-1	FLOOR DRAIN, TRAP PRIMER CONNECTION, VANDAL-PROOF SECURED TOP	-	-	2"	1 1/2"	-	ZURN Z415
	FD-A	FLOOR DRAIN, TRAP PRIMER CONNECTION, VANDAL-PROOF SECURED TOP	-	-	4"	2"	-	ZURN Z415
	FS-1	FLOOR SINK, ALUMINUM DOME STRAINER, VERIFY GRATE SIZE W/ FLOOR SINK APPLICATION	-	-	3"	2"	-	ZURN 1910
┧┟	FS-A	FLOOR SINK, ALUMINUM DOME STRAINER, VERIFY GRATE SIZE W/ FLOOR SINK APPLICATION	-	-	3"	2"	-	ZURN 1910
1	HS-A	HAND SINK, SINGLE COMPARTMENT, WALL HUNG, W/ FAUCET, DRAIN ASSEMBLY	1/2"	1/2"	2"	1 1/2"		ELKAY EWS2520W4C MIXING VALVE: LEONARD 270-LF SET AT 110°F
	L-1	LAVATORY, WALL MOUNTED LAVATORY, ADA, BATTERY-POWERED FAUCET, MIXING VALVE (ASSE 1070), DRAIN ASSEMBLY	1/2"	1/2"	1 1/2"	1 1/2"	-	BASIN: ZURN Z5360-PED FAUCET: ZURN Z6915-XL MIXING VALVE: LEONARD 270-LF SET AT 110°F
] -	L-2	LAVATORY, WALL MOUNTED LAVATORY, ADA, BATTERY-POWERED FAUCET, W/ ELECTRONIC MANIFOLD LAVATORY VALVE, MIXING VALVE (ASSE 1070), DRAIN ASSEMBLY	1/2"	1/2"	1 1/2"	1 1/2"	BATTERY	BASIN: ZURN Z5360-PED FAUCET: I-CON COBALT ESSENTIAL 102664 ELECTRONIC MANIFOLD VALVE: I-CON ELEMENT MIXING VALVE: LEONARD 270-LF SET AT 110°F
$\left\ \cdot \right\ $	L-A	LAVATORY, WALL MOUNTED LAVATORY, ADA, BATTERY-POWERED FAUCET, MIXING VALVE (ASSE 1070), DRAIN ASSEMBLY	1/2"	1/2'	1 1/2"	1 1/2"		BASIN: ZURN Z5360-PED FAUCET: ZURN Z6915-XL MIXING VALVE: LEONARD 270-LF SET AT 110°F
$+\Box$	OS-A	OIL/SAND SEPARATOR			4"	3"		STRIEM OS-100
┧	RD-1	12" DIAMETER ROOF DRAIN	-	-	SEE PLAN	-	-	ZURN Z121
	RD-2	12" DIAMETER COMBINATION MAIN ROOF AND OVERFLOW DRAIN WITH LOW SILHOUETTE DOMES AND DOUBLE TOP-SET DECK PLATE	-	-	SEE PLAN	-	-	ZURN Z164
┚┖	RH-1	AUTO DRAIN ROOF HYDRANT, BACKFLOW PREVENTOR, ROOF FLUSH MOUNT, 3/4" HOSE CONNECTION	3/4"	-	-	-	-	WOORFORD SRH-MS
	S-1	BREAKROOM SINK, ADA, SINGLE COMPARTMENT, W/ FAUCET, DRAIN ASSEMBLY, 1/2 HP GARBAGE DISPOSER W/ CORD AND PLUG.	1/2"	1/2"	2"	1 1/2"	120	BASIN: ELKAY ELUHAD281655 FAUCET: ELKAY LKGT4083 DRAIN: ELKAY LK99 GARBAGE DISPOSER: BADGER 5
	S-2	SINK, ADA, SINGLE COMPARTMENT, W/ FAUCET, DRAIN ASSEMBLY	1/2"	1/2"	2"	1 1/2"	-	BASIN: ELKAY ELUHAD211555 FAUCET: ELKAY LKGT4083 DRAIN: ELKAY LK99
	S-A	SINK, ADA, SINGLE COMPARTMENT, W/ FAUCET, DRAIN ASSEMBLY	1/2"	1/2"	2"	1 1/2"	-	BASIN: ELKAY ELUHAD211555 FAUCET: ELKAY LKGT4083 MIXING VALVE LEONARD 270-LF SET AT 110°F
	SC-1	SILLCOCK, AUTO DRAIN, NON FREEZE WALL HYDRANT W/ INTEGRAL VACUUM BREAKER, CHROME PLATED BRASS, 3/4" HOSE CONNECTION, W/ LOOSE KEY, W/ BOX & DOOR	3/4"	ı	ı	-		WOODFORD B67
	SC-A	SILLCOCK, AUTO DRAIN, NON FREEZE WALL HYDRANT W/ INTEGRAL VACUUM BREAKER, CHROME PLATED BRASS, 3/4" HOSE CONNECTION, W/ LOOSE KEY, W/ BOX & DOOR	3/4"	-	-	-		WOODFORD B67
	SH-1	ADA, ROLL-IN SHOWER, PRESSURE BALANCING MIXING VALVE, TEMPERATURE LIMIT STOPS, TUB SPOUT, SHOWER HEAD, HAND HELD SHOWER W/ SHOWER HEAD, DIVERTER VALVE, DRAIN ASSEMBLY	1/2"	1/2"	2"	1 1/2"	-	TRIM & VALVE: DELTA T14267-LHD (LESS SHOWER HEAD), R10000-UNWS SHOWER HEAD: DELTA RP48590 HAND HELD SHOWER: DELTA 55424 LINEAR DRAIN: ZURN ZS880
	SS-1	SERVICE SINK, VACUUM BREAKER FAUCET, HOSE HOLDER, MOP HANGER, WALL GUARD	1/2"	1/2"	3"	2"	-	BASIN: E.L. MUSTEE & SONS 62M FAUCET: ZURN Z843M1-RC
┚┃	TD-A	TRENCH DRAIN, TRAFFIC RATED, PROVIDE P-TRAP AT TRENCH DRAIN OUTLET WITH TRAP PRIMER,	-	-	4"	2"	-	ZURN Z886
	U-1	URINAL W/ TOP SPUD, TOUCHLESS FLUSHOMETER	1"		2"	1 1/2"	BATTERY	BOWL: KOHLER K-4991 FLUSHOMETER: KOHLER K-10949
\dashv $lacksquare$	WB-1	ICE MAKER WALL BOX, GALVANIZED METAL	1/2"	-	-	-	-	OATEY 37684
$\left\ \cdot \right\ _{-}$	WC-1	ADA WATER CLOSET, FLOOR MOUNTED, BATTERY POWERED FLUSH VALVE, W/ OPEN SEAT W/O COVER	1"	-	3"	2"	BATTERY	BOWL: KOHLER K-96057 FLUSH VALVE: AMERICAN STANDARD 6065.121.002
	WC-2	ADA WATER CLOSET, FLOOR MOUNTED, CONCEALED SENSOR FLUSH VALVE, W/ OPEN SEAT W/O COVER	1"	-	3"	2"	BATTERY	BOWL: KOHLER K-96057 SENSOR FLUSH VALVE: I-CON COBALT PRO
	WC-A	ADA WATER CLOSET, FLOOR MOUNTED, BATTERY POWERED FLUSH VALVE, W/ OPEN SEAT W/O COVER	1"	-	3"	2"		BOWL: KOHLER K-96057 FLUSH VALVE: AMERICAN STANDARD 6065.121.002

1. REFER TO ARCHITECTURAL PLANS FOR FINAL LAVATORY AND SINK MOUNTING STYLES, SIZES, LOCATIONS, ADA REQUIREMENTS, AND NUMBER OF BOWLS.

3. REFER TO ARCHITECTURAL PLANS FOR FINAL URINAL AND WATER CLOSET MOUNTING STYLES, LOCATIONS, FLUSH STYLE (MANAUL OR SENSOR), FLUSHING LEVER LOCATION, AND ADA REQUIREMENTS.

4. THE FOLLOWING FLOOR SINK GRATES TO BE INSTALLED FOR THE APPROPRIATE APPLICATION: FULL GRATE: FLOOR SINK WITHOUT INDIRECT DRAIN PIPE. 3/4 GRATE: FLOOR SINK WITH ONE INDIRECT DRAIN PIPE, 1/2 GRATE: FLOOR SINK WITH MULTIPLE INDIRECT DRAIN PIPES, NO GRATE: FLOOR SINK WITH MORE THAN (5) INDIRECT DRAIN PIPES.

• AMTROL, WATTS, AND TACO ARE APPROVED MANUFACTURERS. REFER TO MANUFACTURER AND MODEL FOR BASIS OF DESIGN.

WATER SOFTENER (WS) CONTINUOUS # OF MINERAL TANKS INLET HARDNESS (GRAINS/GALLON) | MAX OUTLET HARDNESS (GRAINS/GAL) | VALVE SIZE (IN) | MCA | VOLT | PHASE | FLOW (GPM) PD (PSI) MINERAL TANKS DIA HEIGHT DIA HEIGHT WEIGHT MARK MANUFACTURER MODEL NO. (LBS) 63.0 15.0 5.0 120 1 30 72 30 48 1000 WS-1 WATER TECH 2 5.0 120 1 30 72 30 48 1000 WS-A WATER TECH 46.0 15.0 1 14.0

CULLIGAN, WATER TECH, AQUION, COLUMBIA WATER CONDITIONING, AND EVOQUA ARE APPROVED MANUFACTURERS. REFER TO MANUFACTURER AND MODEL FOR BASIS OF DESIGN.

				EXP#	ANSION TANK (E	T)					
MARK	MANUFACTURER	MODEL NO.	SYSTEM	VOL (GAL)	ACCEPTANCE VOL (GAL)	PRECHARGE PRESS (PSI)		UN DIMENSI DIA		, O. 2.0 (1111)	
ET-1	WATTS	DETA-20	DHW	8.0	5.3	40	140	12	20	50	
ET-A	WATTS	DETA 12	DHW	5.0	3.3	40	120	12	14	50	

					(GAS-I	FIRED W	/ATER	HEATE	R (WI	H)				
	MARK	MANUFACTURER	MODEL NO.	INPUT (BTU/H)	CAP (BTU/H)	EFF	FUEL TYPE	FLUE DIA (IN)	RECOVERY (GAL/H)	VOL (GAL)	MAX TEMP RISE (°F)	MIN GAS PRESSURE (IN W.C.)	UNIT DIME HEIGHT	DIAMETER	OPERATING WEIGHT (LBS)
I	WH-1	AO SMITH	BTH-120	199,000	189,050	95.0	NG	4	138	60	80	3.5	56	28	480
Г															

NOTES:

• RHEEM, AO SMITH, BOCK, BRADFORD WHITE, AND LOCHINVAR ARE APPROVED MANUFACTURERS. REFER TO MANUFACTURER AND MODEL FOR BASIS OF DESIGN. PROVIDE WITH CONDENSATE NEUTRALIZATION KIT. PROVIDE WITH ELECTRICAL SERVICE OF 120 V, 1 PH, 5 AMPS.

FIXTURE FLOW	FIXTURE FLOW RATE									
FIXTURE	MAX FLOW RATE									
SINKS	2.2 GPM									
LAVATORIES	2.2 GPM									
SHOWERS	2.5 GPM									
WATER CLOSET	1.6 GAL/FLUSH									

TO BE SUITABLE FOR POTABLE WATER.

A. FIXTURES EXCLUDED: CLINICAL SINKS, LAUNDRY TRAYS, AND

SERVICE SINKS. B. VERIFY MAXIMUM FIXTURE FLOW RATES WITH LOCAL JURISDICTION AMMENDMENTS/REQUIREMENTS. C. SHOWERS WITH MORE THAN ONE SHOWERHEAD TO HAVE A MAX 2.2 GPM COMBINED FLOWRATE OR DESIGNED TO ONLY

ALLOW OPERATION OF ONE SHOWERHEAD AT A TIME.

ALL EQUIPMENT SELECTED AT SITE ELEVATION (4700') UNLESS NOTED OTHERWISE.

PROJECT #24.3008 C23



FACILITY

9#

SP NEW DIS 1155 FOOTE DIDAHO FALLS, IDA

SP

2251

DPW

REVISIONS

PROJECT NO. 21034 DATE: AUGUST 2024 DRAWN BY: Author CHECKED BY: Checker

		JILL (IITOTTLO).						_			
			ROLLING	ASSETB	UILIDING V	NATER P	IPE SIZIN	IG CHART			
				PIPE	SIZES CALCULAT	ED BASED ON I	UPC				
SIZE: TYPE	L COPPER	DCW MA	X FLOW	CV	VFU	DHW MA	AX FLOW	HWFU		DHWR MAX FLO	W
NOMINAL DIAMETER	INTERNAL DIAMETER	GPM	FPS	FLUSH TANK	FLUSH VALVE	GPM	FPS	HOT WATER	GPM	FPS	FLOW LOSS (PSI/100 FT)
1/2"	0.545	2.5	3.5	2	0	2.5	3.5	2	2.2	3	3.9
3/4"	0.785	6.5	4.3	6	0	6.5	4.3	6	4.5	3	2.6
1"	1.025	13.2	5.1	18	5	12.9	5.0	18	7.7	3	1.9
1-1/4"	1.265	22.9	5.9	35	8	19.6	5.0	29	11.8	3	1.5
1-1/2"	1.505	36.2	6.5	74	22	27.7	5.0	46	16.6	3	1.2
2"	1.985	74.9	7.8	249	127	48.2	5.0	120	28.9	3	0.9

JOB NAME:	PROJECT IDA	AHO STATE POLICE D6 H	Q REVISIO	NS					DATE	: 09/05/24	
FIXTURE TYPE		OCCUPANCY	NO.	W	ASTE	COLD	WATER	нот и	VATER	TOTAL WATER	
				DFU	TOTAL	WSFU	TOTAL	WSFU	TOTAL	WSFU	
DRINKING FOUNTAIN		PUBLIC/PRIVATE	3	0.5	1.5	0.5	1.5	0		1.5	
SINGLE SHOWER HEAD		PUBLIC/PRIVATE	3	2	6	1.5	4.5	1.5	4.5	6	
LAVATORY		PUBLIC/PRIVATE	11	1	11	0.75	8.25	0.75	8.25	11	
KITCHEN SINK, DOMESTIC		PUBLIC/PRIVATE	3	2	6	1.125	3.375	1.125	3.375	4.5	
SERVICE SINK OR MOP BASIN		PUBLIC/PRIVATE	1	3	3	1.125	1.125	1.125	1.125	1.5	
URINAL		PRIVATE	2	2	4	3	6	0		6	
URINAL		PUBLIC	1	2	2	4	4	0		4	
WATER CLOSET, FLUSH VALVE		PRIVATE	11	3	33	5	55	0		55	
HOSE BIBB 1ST		PUBLIC/PRIVATE	1	0		2.5	2.5	0		2.5	
HOSE BIBB ADDITIONAL		PUBLIC/PRIVATE	10	0		1	10	0		10	
FLOOR DRAIN		PUBLIC/PRIVATE	14	2	28	0		0			
FLOOR SINK, 3" DRAIN		PUBLIC/PRIVATE	2	6	12	0		0			
% FLUSH VALVE	100%	TOTAL	62		106.500		96.250		17.250	102.000	
EQUIVALENT WATER FLOW RATE (0	SPM):				DCW (GPM)	68.5	DHW (GPM)	12.2	OVERALL	RUNNING PRESSURE	
PRESSURE AVAILABLE AT METER (I	PSI):						•		70	70	
METER LOSS (PSI):					-				3	67	
BACKFLOW PREVENTER LOSS (PSI)	:								5	62	
MAIN TO BUILDING LOSSES (PSI):									3	59	
							DCW	RUNNING PRESSURE	DHW	RUNNING PRESSURE	
EQUIPMENT LOSSES - WATER SOFT	ENER (PSI):						15	44	15	44	
ELEVATION RISE (FT):							10	40	10	35	
MINIMUM REQUIRED FIXTURE PRES	SURE (PSI):						25	15	25	10	
EQUIVALENT PIPE LENGTH TO MOS		JRE (FT):					460	-	460		
MAXIMUM ALLOWABLE FRICTION LO		• •					3.2		2.1		
MINIMUM REQUIRED WATER MAIN P						MATERIAL	TYPE L	COPPER	2	-1/2"	
IMUM REQUIRED WATER MAIN PIPE SIZE (INCHES):				SLOPE	1/4"/FT MATERIAL PVC			/C	4"		

	MAIN BUILDING WATER PIPE SIZING CHART													
				PIPE	SIZES CALCULATI	ED BASED ON	UPC							
SIZE: TYPE	L COPPER	DCW MA	X FLOW	CW	/FU	DHW MA	AX FLOW	HWFU		DHWR MAX FLO	OW			
NOMINAL DIAMETER	INTERNAL DIAMETER	GPM	FPS	FLUSH TANK	FLUSH VALVE	GPM	FPS	HOT WATER	GPM	FPS	FLOW LOSS (PSI/100 FT)			
1/2"	0.545	1.9	2.7	3	0	1.6	2.1	2	2.2	3	3.9			
3/4"	0.785	5.1	3.4	4	0	4.1	2.7	4	4.5	3	2.6			
1"	1.025	10.2	4.0	13	5	8.2	3.2	10	7.7	3	1.9			
1-1/4"	1.265	17.8	4.5	26	6	14.2	3.6	20	11.8	3	1.5			
1-1/2"	1.505	28.1	5.1	47	11	22.4	4.0	34	16.6	3	1.2			
2"	1.985	58.2	6.0	165	67	46.4	4.8	112	28.9	3	0.9			
2-1/2"	2.465	102.7	6.9	388	258	74.4	5.0	246	44.6	3	0.7			

#6 FACILITY

REMODEL FOR:

ISP NEW DISTRICT #

1155 FOOTE DRIVE
IDAHO FALLS, IDAHO 83402

DPW 2251

REVISIONS

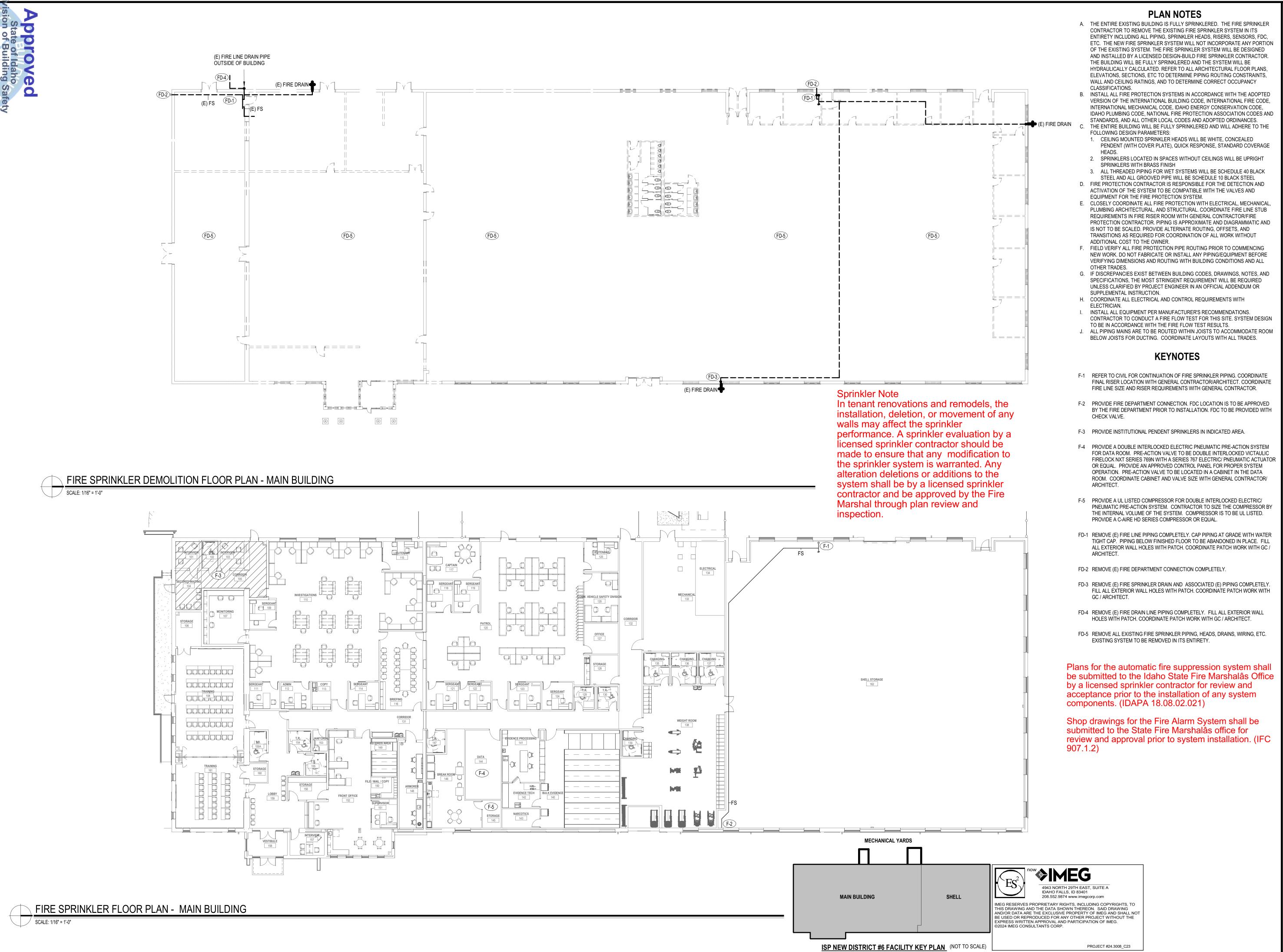
PROJECT NO. 21034 DATE:

AUGUST 2024 DRAWN BY: Author CHECKED BY: Checker

DRAWING NO.:

4943 NORTH 29TH EAST, SUITE A IDAHO FALLS, ID 83401 208.552.9874 www.imegcorp.com IMEG RESERVES PROPRIETARY RIGHTS, INCLUDING COPYRIGHTS, TO THIS DRAWING AND THE DATA SHOWN THEREON. SAID DRAWING AND/OR DATA ARE THE EXCLUSIVE PROPERTY OF IMEG AND SHALL NOT BE USED OR REPRODUCED FOR ANY OTHER PROJECT WITHOUT THE EXPRESS WRITTEN APPROVAL AND PARTICIPATION OF IMEG. ©2024 IMEG CONSULTANTS CORP.

PROJECT #24.3008_C23



© = 5

ACILIT

9#

DEL FC

225

DPW

REVISIONS

SP NEW DIS 1155 FOOTE I

PROJECT NO. 21034 DATE: AUGUST 2024 DRAWN BY: CHECKED BY:

- F-1 REFER TO CIVIL FOR CONTINUATION OF FIRE SPRINKLER PIPING. COORDINATE FINAL RISER LOCATION WITH GENERAL CONTRACTOR/ARCHITECT. COORDINATE FIRE LINE SIZE AND RISER REQUIREMENTS WITH GENERAL CONTRACTOR.
- F-2 PROVIDE FIRE DEPARTMENT CONNECTION. FDC LOCATION IS TO BE APPROVED BY B. INSTALL ALL FIRE PROTECTION SYSTEMS IN ACCORDANCE WITH THE ADOPTED THE FIRE DEPARTMENT PRIOR TO INSTALLATION. FDC TO BE PROVIDED WITH

- **PLAN NOTES** A. THE FIRE SPRINKLER SYSTEM WILL BE DESIGNED AND INSTALLED BY A LICENSED DESIGN-BUILD FIRE SPRINKLER CONTRACTOR. THE BUILDING WILL BE FULLY SPRINKLERED AND THE SYSTEM WILL BE HYDRAULICALLY CALCULATED. REFER TO ALL ARCHITECTURAL FLOOR PLANS, ELEVATIONS, SECTIONS, ETC TO DETERMINE PIPING ROUTING CONSTRAINTS, WALL AND CEILING RATINGS, AND TO DETERMINE CORRECT OCCUPANCY CLASSIFICATIONS.
- VERSION OF THE INTERNATIONAL BUILDING CODE, INTERNATIONAL FIRE CODE, INTERNATIONAL MECHANICAL CODE, INTERNATONAL ENERGY CONSERVATION CODE, IDAHO PLUMBING CODE, NATIONAL FIRE PROTECTION ASSOCIATION CODES AND STANDARDS, AND ALL OTHER LOCAL CODES AND ADOPTED
- C. THE ENTIRE BUILDING WILL BE FULLY SPRINKLERED AND WILL ADHERE TO THE FOLLOWING DESIGN PARAMETERS: 1. CEILING MOUNTED SPRINKLER HEADS WILL BE WHITE, CONCEALED PENDENT (WITH COVER PLATE), QUICK RESPONSE, STANDARD COVERAGE
- 2. SPRINKLERS LOCATED IN SPACES WITHOUT CEILINGS WILL BE UPRIGHT SPRINKLERS WITH BRASS FINISH
- 3. ALL THREADED PIPING FOR WET SYSTEMS WILL BE SCHEDULE 40 BLACK STEEL AND ALL GROOVED PIPE WILL BE SCHEDULE 10 BLACK STEEL D. FIRE PROTECTION CONTRACTOR IS RESPONSIBLE FOR THE DETECTION AND ACTIVATION OF THE SYSTEM TO BE COMPATIBLE WITH THE VALVES AND
- EQUIPMENT FOR THE FIRE PROTECTION SYSTEM. E. CLOSELY COORDINATE ALL FIRE PROTECTION WITH ELECTRICAL, MECHANICAL, PLUMBING ARCHITECTURAL, AND STRUCTURAL. COORDINATE FIRE LINE STUB REQUIREMENTS IN FIRE RISER ROOM WITH GENERAL CONTRACTOR/FIRE PROTECTION CONTRACTOR. PIPING IS APPROXIMATE AND DIAGRAMMATIC AND IS NOT TO BE SCALED. PROVIDE ALTERNATE ROUTING, OFFSETS, AND TRANSITIONS AS REQUIRED FOR COORDINATION OF ALL WORK WITHOUT ADDITIONAL COST TO THE OWNER.
- F. FIELD VERIFY ALL FIRE PROTECTION PIPE ROUTING PRIOR TO COMMENCING NEW WORK. DO NOT FABRICATE OR INSTALL ANY PIPING/EQUIPMENT BEFORE VERIFYING DIMENSIONS AND ROUTING WITH BUILDING CONDITIONS AND ALL OTHER TRADES. G. IF DISCREPANCIES EXIST BETWEEN BUILDING CODES, DRAWINGS, NOTES, AND
- SPECIFICATIONS, THE MOST STRINGENT REQUIREMENT WILL BE REQUIRED UNLESS CLARIFIED BY PROJECT ENGINEER IN AN OFFICIAL ADDENDUM OR SUPPLEMENTAL INSTRUCTION.
- H. COORDINATE ALL ELECTRICAL AND CONTROL REQUIREMENTS WITH ELECTRICIAN.
- I. INSTALL ALL EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. J. CONTRACTOR TO CONDUCT A FIRE FLOW TEST FOR THIS SITE. SYSTEM DESIGN TO BE IN ACCORDANCE WITH THE FIRE FLOW TEST RESULTS.

REMODEL FOR:

ISP NEW DISTRICT #

1155 FOOTE DRIVE
IDAHO FALLS, IDAHO 83402

FACILITY

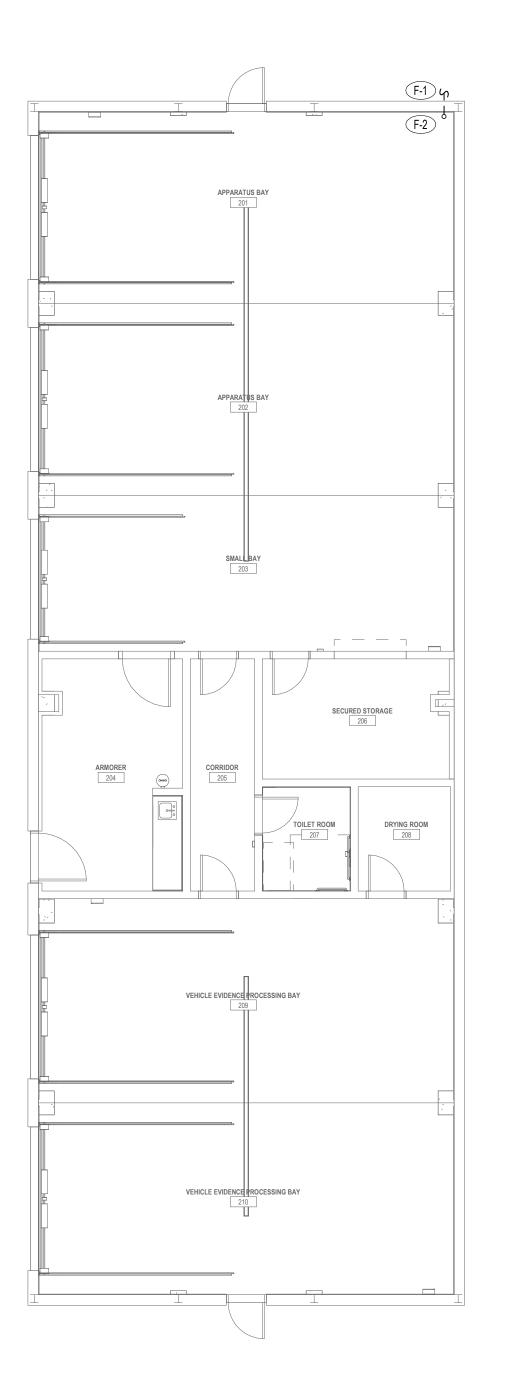
9#

DPW 2251'

PROJECT NO. 21034 DATE: AUGUST 2024 DRAWN BY:

CHECKED BY:

DRAWING NO.:



4943 NORTH 29TH EAST, SUITE A IDAHO FALLS, ID 83401 208.552.9874 www.imegcorp.com IMEG RESERVES PROPRIETARY RIGHTS, INCLUDING COPYRIGHTS, TO THIS DRAWING AND THE DATA SHOWN THEREON. SAID DRAWING AND/OR DATA ARE THE EXCLUSIVE PROPERTY OF IMEG AND SHALL NOT BE USED OR REPRODUCED FOR ANY OTHER PROJECT WITHOUT THE EXPRESS WRITTEN APPROVAL AND PARTICIPATION OF IMEG.

PROJECT #24.3008_C23

BASIC MATERIALS VIDEO SURVEILLANCE SYSTEMS PAN/TILT/ZOOM CCTV CAMERA, WALL MOUNTED $_{\rm X.C}$ X= CAMERA TYPE (1,2,3), SEE DETAIL SHEETS FOR MORE INFORMATION, C = CAMERA NUMBER — CONDUIT TURNED UP CONDUIT TURNED DOWN PAN/TILT/ZOOM CCTV CAMERA, CEILING MOUNTED $_{X,C}$ X= CAMERA TYPE (1,2,3), SEE DETAIL SHEETS FOR MORE INFORMATION, C = CAMERA NUMBER ——II CAPPED CONDUIT FIXED CCTV CAMERA, WALL MOUNTED ——] CONDUIT STUBBED AND BUSHED INTO ACCESSIBLE CEILING CAVITY $\bigcup_{X,C} X = CAMERA TYPE (1,2,3)$, SEE DETAIL SHEETS FOR MORE INFORMATION, C = CAMERA NUMBER — CONDUIT CONTINUED FIXED CCTV CAMERA, CEILING MOUNTED $\bigcup_{X,C} X$ = CAMERA TYPE (1,2,3), SEE DETAIL SHEETS FOR MORE INFORMATION, C = CAMERA NUMBER 180° CCTV CAMERA, WALL MOUNTED Y= SIZE OF CONDUITS SLEEVES PENETRATING WALL ABOVE CEILING SPACE. $igsplus_{\mathsf{X},\mathsf{C}}\mathsf{X}$ = CAMERA TYPE (1,2,3), SEE DETAIL SHEETS FOR MORE INFORMATION, $\,\mathsf{C}$ = CAMERA NUMBER 180° CCTV CAMERA, CEILING MOUNTED $_{\rm X,C}$ X= CAMERA TYPE (1,2,3), SEE DETAIL SHEETS FOR MORE INFORMATION, C = CAMERA NUMBER IF NO QUANTITY INDICATED USE AS MANY SLEEVES AS REQUIRED TO MATCH CROSS SECTIONAL AREA OF CABLE TRAY NEXT TO SLEEVE. 180° MULTI-IMAGER CCTV CAMERA, WALL MOUNTED X,C X= CAMERA TYPE (1,2,3), SEE DETAIL SHEETS FOR MORE INFORMATION, C = CAMERA NUMBER TUBULAR RUNWAY, HUNG ABOVE CEILING OR AS NOTED 180° MULTI-IMAGER CCTV CAMERA, CEILING MOUNTED X,C X= CAMERA TYPE (1,2,3), SEE DETAIL SHEETS FOR MORE INFORMATION, C = CAMERA NUMBER CABLE TRAY (TYPE), HUNG ABOVE CEILING OR AS NOTED SURFACE MOUNTED ENCLOSED TECHNOLOGY SYSTEMS. SEE SHEETS WITH DETAILS FOR \bigcirc 360° CCTV CAMERA, WALL MOUNTED $_{X,C}$ X= CAMERA TYPE (1,2,3), SEE DETAIL SHEETS FOR MORE INFORMATION, C = CAMERA NUMBER 360° CCTV CAMERA, WALL MOUNTED JUNCTION BOX WALL MOUNTED. SIZE PER NEC IF NOT INDICATED ON DRAWING. NEMA 1 FOR INTERIOR, NEMA 4X FOR EXTERIOR USE WITH HINGED COVER AND LOCKING COVER 360° CCTV CAMERA, CEILING MOUNTED $_{\rm X,C}$ X= CAMERA TYPE (1,2,3), SEE DETAIL SHEETS FOR MORE INFORMATION, C = CAMERA NUMBER JUNCTION BOX CEILING MOUNTED. SIZE PER NEC IF NOT INDICATED ON DRAWING. NEMA 1 FOR INTERIOR, NEMA 4X FOR EXTERIOR USE WITH HINGED COVER AND LOCKING COVER 360° MULTI-IMAGER CCTV CAMERA, WALL MOUNTED X,C X= CAMERA TYPE (1,2,3), SEE DETAIL SHEETS FOR MORE INFORMATION, C = CAMERA NUMBER TELECOMMUNICATIONS GROUND VAULT. SEE DETAILS AND SPECS FOR MORE INFORMATION 360° MULTI-IMAGER CCTV CAMERA, CEILING MOUNTED X= BOX TYPE. IF NOT SHOWN, ONLY ONE TYPE IN PROJECT $\bigotimes_{X,C}$ X= CAMERA TYPE (1,2,3), SEE DETAIL SHEETS FOR MORE INFORMATION, C = CAMERA NUMBER TELECOMMUNICATIONS PULLBOX. SEE DETAILS AND SPECS FOR MORE INFORMATION X= BOX TYPE. IF NOT SHOWN, ONLY ONE TYPE IN PROJECT CCTV FLAT PANEL DISPLAY WITH MOUNT XX XX= SCREEN SIZE TP TECHNOLOGY POLE. SEE SHEETS WITH DETAILS FOR ADDITIONAL INFORMATION +YY YY= HEIGHT TO CENTER OF SCREEN SECURITY SYSTEM WORKSTATION, DESK MOUNTED **GENERAL** X= TYPE NEW EQUIPMENT EXISTING WORK AND/OR EQUIPMENT REFERENCE, SHOWN ON MULTIPLE DRAWINGS - DEVICE TO BE REMOVED (DEMO PLANS) UNDERFLOOR CONDUIT (NEW PLANS) — - - — MATCH LINE REFERENCING CONTINUATION ON OTHER DRAWINGS - - DETAIL AND/OR SECTION REFERENCE CABLE ROUTING BOUNDARY — FUTURE WORK DRAWING NOTES AND DESIGNATIONS AUDIO VISUAL EQUIPMENT (x) DRAWING KEYED NOTES CEILING MOUNTED SPEAKER CABLE ROUTING NOTES X= SPEAKER TYPE Y= SPEAKER ZONE
Y-Z Z= DENOTES SPEAKER # IN ZONE DETAIL OR SECTION REFERENCE TAG W W= DENOTES SPEAKER WATTAGE TAP **VOICE AND DATA SYSTEM** NO ZONE INDICATES LOCAL ZONE FOR A/V SYSTEM IN ROOM WALL MOUNTED SPEAKER **TELECOMMUNICATION OUTLET** X= SPEAKER TYPE X= MOUNTING: (E= EXISTING, F= FLUSH, S= SURFACE, M= MODULAR FURNITURE ADAPTER. Y= SPEANEN ZONE
Y-Z Z= DENOTES SPEAKER # IN ZONE Y= SPEAKER ZONE P= POLE, L= FLOOR, R= RACEWAY) N= NUMBER OF DATA CABLES IN THE FACEPLATE W. W= DENOTES SPEAKER WATTAGE TAP Y= NOT USED +H= MOUNTING HEIGHT IN INCHES AT CENTER OF DEVICE Z= NUMBER OF FIBER OPTIC STRANDS IN THE FACEPLATE NO ZONE INDICATES LOCAL ZONE FOR A/V SYSTEM IN ROOM U= USER(IF APPLICABLE) VOLUME CONTROL, WALL MOUNTED +H= INSTALLATION HEIGHT IN INCHES AT CENTER OF OUTLET, COORDINATE WITH +H = MOUNTING HEIGHT IN INCHES AT CENTER OF OUTLET, IF NOT SHOWN, INSTALL AT 4'-0" AFF ELECTRICAL. IF NOT SHOWN INSTALL AT TYPICAL RECEPTACLE HEIGHT. W= WALL TELEPHONE FACEPLATE WITH SUPPORT STUDS, INSTALLED AT 48" AFF AT CENTER FT FLIP TOP DEVICE MOUNTED ON TABLE OF OUTLET AND 12" FROM EDGE OF WALL. SENS MICROPHONE FOR AMBIENT NOISE, WALL MOUNTED WP=WEATHERPROOF +H = MOUNTING HEIGHT IN INCHES AT CENTER OF OUTLET, IF NOT SHOWN, INSTALL AT 8'-0" AFF EXAMPLE: F2 = TWO DATA JACKS IN A SINGLE FACEPLATE, FLUSH MOUNTED SM SENS MICROPHONE FOR AMBIENT NOISE, CEILING MOUNTED MECH OUTLET FOR MECHANICAL/ ELECTRICAL/ FIRE ALARM/ ELEVATOR/ STAR CONNECTION MICROPHONE, DESK MOUNTED Y: AS DESCRIBED FOR TELECOMMUNICATIONS OUTLET X= TYPE, IF NOT SHOWN, ONLY ONE TYPE IN PROJECT U: AS DESCRIBED FOR TELECOMMUNICATIONS OUTLET MICROPHONE, WALL MOUNTED +H= IF NOT SHOWN, COORDINATE EXACT LOCATION WITH DEVICE I_{+H} X= DENOTES TYPE OF OUTLET, IF NOT SHOWN, ONLY ONE TYPE CEILING MOUNTED INFORMATION OUTLET, MOUNTED ON FINISHED CEILING +H= MOUNTING HEIGHT IN INCHES AT CENTER OF OUTLET XY: AS DESCRIBED FOR TELECOMMUNICATIONS OUTLET MICROPHONE, CEILING MOUNTED MICROPHONE, CEILING MICROST ZZ U: AS DESCRIBED FOR TELECOMMUNICATIONS OUTLET WAP OUTLET FOR WIRELESS ACCESS POINT, WALL MOUNTED WIRELESS ANTENNA FOR WIRELESS MICRPHONE, WALL MOUNTED Y: AS DESCRIBED FOR TELECOMMUNICATIONS OUTLET U: AS DESCRIBED FOR TELECOMMUNICATIONS OUTLET +H= MOUNTING HEIGHT IN INCHES AT CENTER OF OUTLET, IF NOT SHOWN, INSTALL AT 8'-0" AFF +H= MOUNTING HEIGHT IN INCHES AT CENTER OF OUTLET, IF NOT SHOWN, INSTALL AT 8'-0" AFF TOUCH SCREEN FOR AUDIO/VIDEO CONTROL, DESK MOUNTED WAP OUTLET FOR WIRELESS ACCESS POINT, MOUNTED ON FINISHED CEILING X= DENOTES TYPE OF OUTLET, SEE RISER FOR MORE INFO, IF NOT SHOWN, ONLY ONE TYPE XY: AS DESCRIBED FOR TELECOMMUNICATIONS OUTLET TOUCH SCREEN FOR AUDIO/VIDEO CONTROL, WALL MOUNTED, INCLUDES BACK BOX U: AS DESCRIBED FOR TELECOMMUNICATIONS OUTLET X= DENOTES TYPE OF OUTLET, SEE RISER FOR MORE INFO, IF NOT SHOWN, ONLY ONE TYPE +H +H= MOUNTING HEIGHT IN INCHES AT CENTER OF OUTLET, IF NOT SHOWN, INSTALL AT 4'-0" AFF FYZ FLOORBOX SCHEDULE FOR MORE INFORMATION FLOOR BOX FOR TECHNOLOGY SYSTEMS AND POWER OUTLETS. REFER TO POKE-THRU/ CAMERA FOR AV SYSTEM, WALL MOUNTED X= DENOTES TYPE OF OUTLET, SEE RISER FOR MORE INFO, IF NOT SHOWN, ONLY ONE TYPE F= FLOOR CONDITION: (C= CONCRETE TYPE, G= GRADE, R= RAISED FLOOR, W= WOOD) ^{+H} +H= MOUNTING HEIGHT IN INCHES AT CENTER OF OUTLET CAMERA FOR AV SYSTEM, CEILING MOUNTED

X= DENOTES TYPE OF OUT IT OF THE PROPERTY OF THE PROPER Y= DENOTES # OF GANGS (1,2,3...) Z= DENOTES PLATE TYPE (A,B,C....), A= NO AUDIO/VISUAL X= DENOTES TYPE OF OUTLET, SEE RISER FOR MORE INFO, IF NOT SHOWN, ONLY ONE TYPE LN= AS DESCRIBED FOR TELECOMMUNICATIONS OUTLET U: AS DESCRIBED FOR TELECOMMUNICATIONS OUTLET ASSISTED LISTENING TRANSMITTER, WALL MOUNTED ASSISTED LISTEINING TO TO THE HEAD OF OUTLET POKE-THRU FOR TECHNOLOGY SYSTEMS AND POWER OUTLETS. REFER TO POKE-THRU & ROOM SCHEDULING PANEL, WALL MOUNTED, INCLUDES BACK BOX FLOOR BOX SCHEDULE FOR MORE INFORMATION X= DENOTES TYPE OF OUTLET, SEE RISER FOR MORE INFO, IF NOT SHOWN, ONLY ONE TYPE +H +H= MOUNTING HEIGHT IN INCHES AT CENTER OF OUTLET, IF NOT SHOWN, INSTALL AT 4'-0" AFF Y= DENOTES POKE-THRU SIZE (4=4", 6=6" 8=8"..... Z= DENOTES PLATE TYPE (A,B,C....), A= NO AUDIO/VISUAL OCCUPANCY SENSOR, CEILING MOUNTED X= TYPE, C= CRESNET, E= ETHERNET LN= AS DESCRIBED FOR TELECOMMUNICATIONS OUTLET U: AS DESCRIBED FOR TELECOMMUNICATIONS OUTLET AUDIO VISUAL DISPLAY TT TT= DISPLAY TYPE WITH MOUNT WALL MOUNTED FURNITURE FEED USED TO FEED CABLES TO MODULAR FURNITURE OR CABLES +YY XX= SCREEN SIZE FLOOR BOX USED TO FEED CABLES TO MODULAR FURNITURE, REFER TO DETAIL SHEET FLOOR BOX USED TO FEED CABLES 10 MODULAR FURI X= TYPE, IF NOT SHOWN, ONLY ONE TYPE IN PROJECT YY= HEIGHT TO CENTER OF SCREEN INTERACTIVE WHITEBOARD POKE-THRU USED TO FEED CABLES TO MODULAR FURNITURE, REFER TO DETAIL SHEET TT= DISPLAY TYPE WITH MOUNT X= TYPE, IF NOT SHOWN, ONLY ONE TYPE IN PROJECT +YY XX= SCREEN SIZE AV BACKBOX, INSTALLED BEHIND DISPLAY/ CREDENZA RACK, COORDINATE BACKBOX PRIOR TO AV BACKBOA, INSTALLED BLITTING DIGI EATH COLUMN AND ROUGH-IN. REFER TO DETAIL & SCHEDULE FOR MORE INFORMATION YY= HEIGHT TO CENTER OF SCREEN OVERHEAD PROJECTOR WITH MOUNT U G= DENOTES # OF GANGS +H XY= AS DESCRIBED FOR TELECOMMUNICATIONS OUTLET X X X= TYPE U: AS DESCRIBED FOR TELECOMMUNICATIONS OUTLET Y= LENS THROW RATIO +H= MOUNTING HEIGHT IN INCHES AT CENTER OF DEVICE PULLDOWN PROJECTION SCREEN X= DIAGONAL DIMENSION IN INCHES RECESS IN-WALL STORAGE BOX, INSTALLED BEHIND DISPLAY, COORDINATE BACKBOX PRIOR TO ROUGH-IN. REFER TO DETAIL & SCHEDULE FOR MORE INFORMATION MOTORIZED PROJECTION SCREEN U G= DENOTES # OF GANGS X= DIAGONAL DIMENSION IN INCHES *H XY= AS DESCRIBED FOR TELECOMMUNICATIONS OUTLET U: AS DESCRIBED FOR TELECOMMUNICATIONS OUTLET WALL SWITCH FOR MOTORIZED SCREEN +H= MOUNTING HEIGHT IN INCHES AT CENTER OF DEVICE PODIUM FOR AV EQUIPMENT, REFER TO DETAIL SHEETS POWER POLE FOR COMBINED USE - TECHNOLOGY SYSTEMS AND POWER. X= DENOTES TYPE OF OUTLET, IF NOT SHOWN, ONLY ONE TYPE IN PROJECT X= TYPE, IF NOT SHOWN, ONLY ONE TYPE IN PROJECT AV PLATE OUTLET, REFER TO DETAIL SHEETS X= DENOTES TYPE OF OUTLET, SEE DETAIL FOR MORE INFO, IF NOT SHOWN, ONLY ONE TYPE FIBER OPTICS ROUTING TAG FOR BACKBONE CABLING +H +H= MOUNTING HEIGHT IN INCHES AT CENTER OF OUTLET, IF NOT SHOWN, INSTALL AT 1'-6" AFF N= DENOTES CONNECTION TYPE (P=PRIMARY, S=SECONDARY) XX= DENOTES FIBER STAND QUANTITY SOUND BAR WITH CAMERA, WALL MOUNTED +H = MOUNTING HEIGHT IN INCHES AT CENTER OF OUTLET, IF NOT SHOWN, INSTALL AT 8'-0" AFF Z= DENOTES RUN NUMBER

REFER TO FIBER OPTICS RISER FOR MORE INFORMATION.

ELECTRONIC SECURITY SYSTEM CR CARD READER, WALL MOUNTED CK CARD READER WITH INTEGRATED KEYPAD, WALL MOUNTED BIOMETRIC ACCESS CONTROL DEVICE, WALL MOUNTED KP KEYPAD, WALL MOUNTED WIRED IP LOCK, DOOR MOUNTED WM WIRELESS MORTISE LOCK, DOOR MOUNTED WIRELESS CYLINDRICAL LOCK, DOOR MOUNTED IK INTRUSION ALARM KEYPAD ELECTRIC MORTISE LOCK OR ELECTRIC TRIM DELAYED EGRESS LATCH LOCK DELAYED EGRESS MAG LOCK E ELECTRIC CYLINDRICAL LOCK (E) ELECTRIC LATCH RETRACTION LOCK ELECTROMAGNETIC LOCK ELECTRONIC DETENTION LOCK ELECTRIC DOOR STRIKE ELECTRIC DOOR OPERATOR (ACTUATOR ARM) DPS DOOR POSITION SWITCH BMS BALANCED MAGNETIC SWITCH PIM MODULE FOR WIRELESS LOCKS, WALL MOUNTED +H= MOUNTING HEIGHT IN INCHES AT CENTER OF OUTLET, IF NOT SHOWN, INSTALL AT 7'-0" AFF ALARM, BLUE LIGHT, WALL MOUNTED +H= MOUNTING HEIGHT IN INCHES AT CENTER OF OUTLET, IF NOT SHOWN, INSTALL AT 7'-0" AFF LOCAL ALARM - HORN/STROBE, WALL MOUNTED +H= MOUNTING HEIGHT IN INCHES AT CENTER OF OUTLET, IF NOT SHOWN, INSTALL AT 7'-0" AFF SIREN ALARM FOR INTRUSION DETECTION, WALL MOUNTED +H= MOUNTING HEIGHT IN INCHES AT CENTER OF OUTLET, IF NOT SHOWN, INSTALL AT 7'-0" AFF ASSISTANCE STATION, WALL MOUNTED X= TYPE, IF NOT SHOWN, ONLY ONE TYPE IN PROJECT, REFER TO SPECIFICATION FOR TYPE +H +H= MOUNTING HEIGHT IN INCHES AT CENTER OF OUTLET, IF NOT SHOWN, INSTALL AT 4'-0" AFF ASSISTANCE STATION (BLUE LIGHT), TOWER STATION X= TYPE, IF NOT SHOWN, ONLY ONE TYPE IN PROJECT, REFER TO SPECIFICATION FOR TYPE NTERCOM SUBSTATION (DOOR STATION), WALL MOUNTED X= TYPE, IF NOT SHOWN, ONLY ONE TYPE IN PROJECT, REFER TO RISER FOR TYPE +H +H= MOUNTING HEIGHT IN INCHES AT CENTER OF OUTLET, IF NOT SHOWN, INSTALL AT 4'-0" AFF INTERCOM MASTER STATION, DESK MOUNTED X= TYPE, IF NOT SHOWN, ONLY ONE TYPE IN PROJECT, REFER TO RISER FOR TYPE NTERCOM MASTER STATION, WAII MOUNTED X= TYPE, IF NOT SHOWN, ONLY ONE TYPE IN PROJECT, REFER TO RISER FOR TYPE +H +H= MOUNTING HEIGHT IN INCHES AT CENTER OF OUTLET, IF NOT SHOWN, INSTALL AT 4'-0" AFF CALL STATION (THROUGH PHONE LINE) FOR BUILDING ENTRY, WALL MOUNTED +H= MOUNTING HEIGHT IN INCHES AT CENTER OF OUTLET, IF NOT SHOWN, INSTALL AT 4'-0" AFF DOOR TYPE IDENTIFIER X= TYPE (A1,C3,B6..) REFER TO SECURITY DOOR DETAILS DOOR RELEASE BUTTON, WALL MOUNTED X= A: ADA ACCESSIBLE - (PALM ACTUATOR), W: HAND WAVE, NO TYPE: REGULAR PUSH BUTTON DOOR RELEASE BUTTON, DESK MOUNTED REQUEST TO EXIT DEVICE (IR SENSOR), MOUNT CENTERED ABOVE DOOR FRAME GLASS BREAK SENSOR, WALL MOUNTED +H = MOUNTING HEIGHT IN INCHES AT CENTER OF OUTLET, IF NOT SHOWN, INSTALL AT 7'-0" AFF GLASS BREAK SENSOR, CEILING MOUNTED GP GATE PEDESTAL GO ELECTRIC GATE OPERATOR DURESS PANIC BUTTON, WALL MOUNTED +H = MOUNTING HEIGHT IN INCHES AT CENTER OF OUTLET, IF NOT SHOWN, INSTALL AT 4'-0" AFF D DURESS PANIC BUTTON, MOUNTED UNDER DESK MOTION DETECTOR, WALL MOUNTED, MOUNT 6" BELOW CEILING OR 8'-0" AFF MAX MOTION DETECTOR, 360 DEGREE SENSOR, CEILING MOUNTED INFANT ABDUCTION SYSTEM, WALL MOUNTED +H= MOUNTING HEIGHT IN INCHES AT CENTER OF OUTLET, IF NOT SHOWN, INSTALL AT 8'-0" AFF INFANT ABDUCTION SYSTEM, CEILING MOUNTED ABOVE DOOR LINE BETWEEN SECURITY DEVICES, INDICATES ASSOCIATED EQUIPMENT CONTROLLED DOOR INTERLOCK GROUP. PROGRAMMED SO ONLY ONE DOOR CAN BE OPEN AT A ____TIME. ACCESS CONTROL DOOR DIRECTION, A1/A2 - REPRESENTS ACCESS CONTROL PATH FREE - NO ACCESS CONTROL CR - CARD READER CR/KP - CARD READER AND KEYPAD MONITORED - DOOR MONITORED SHEET MANAGER Sheet Number Sheet Name CHNOLOGY SYMBOLS, LEGEND, NOTES AND INDEX ECHNOLOGY SITE PLAN VOICE/DATA MAIN LEVEL FLOOR PLAN AUDIO/VISUAL AND SECURITY LEVEL 01 FLOOR PLAN ROLLING ASSETS STORAGE BUILDING FNI ARGED PLANS SECURITY RISER DIAGRAM VOICE/DATA DETAILS SECURITY DETAILS SECURITY DETAILS



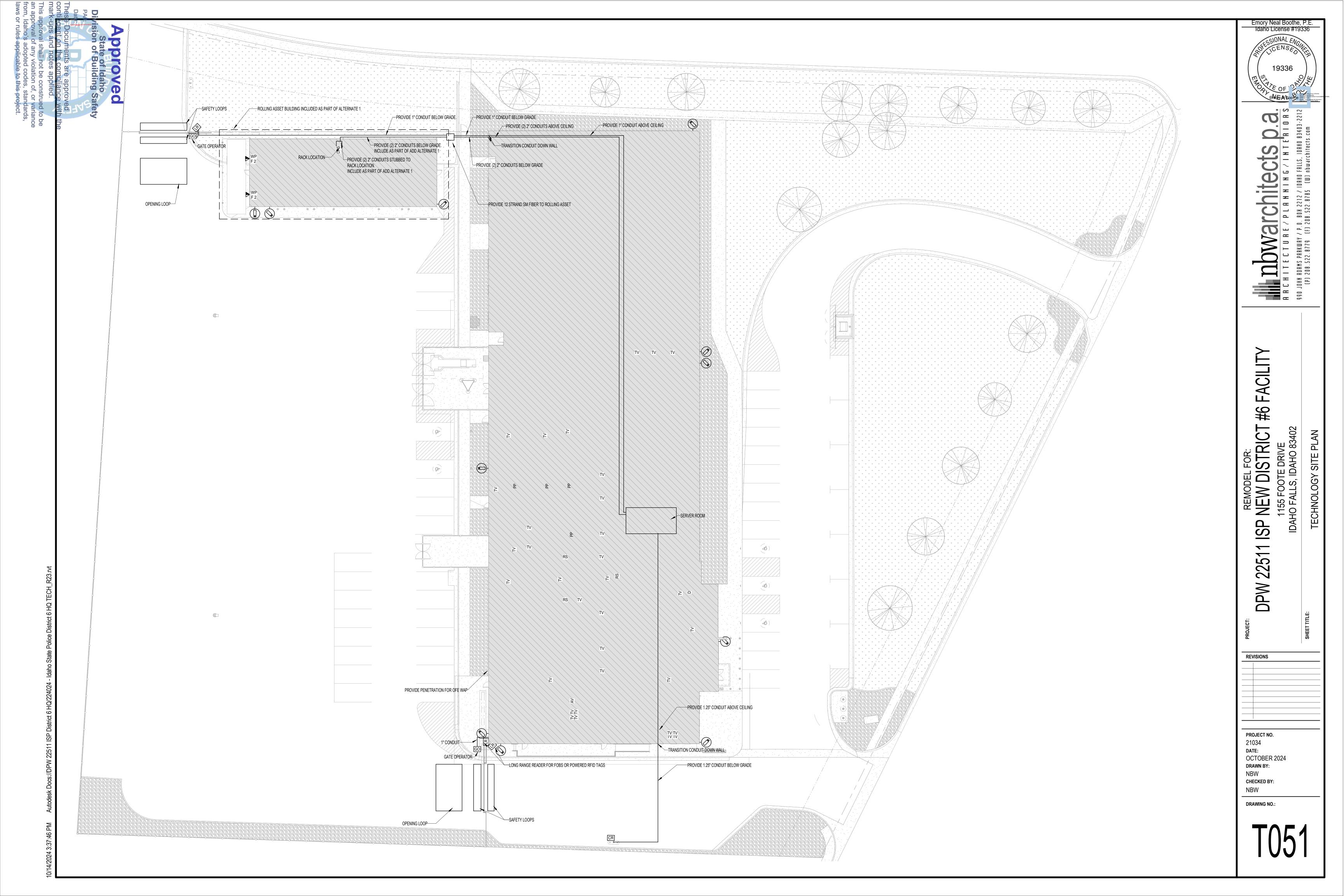
ACIL #

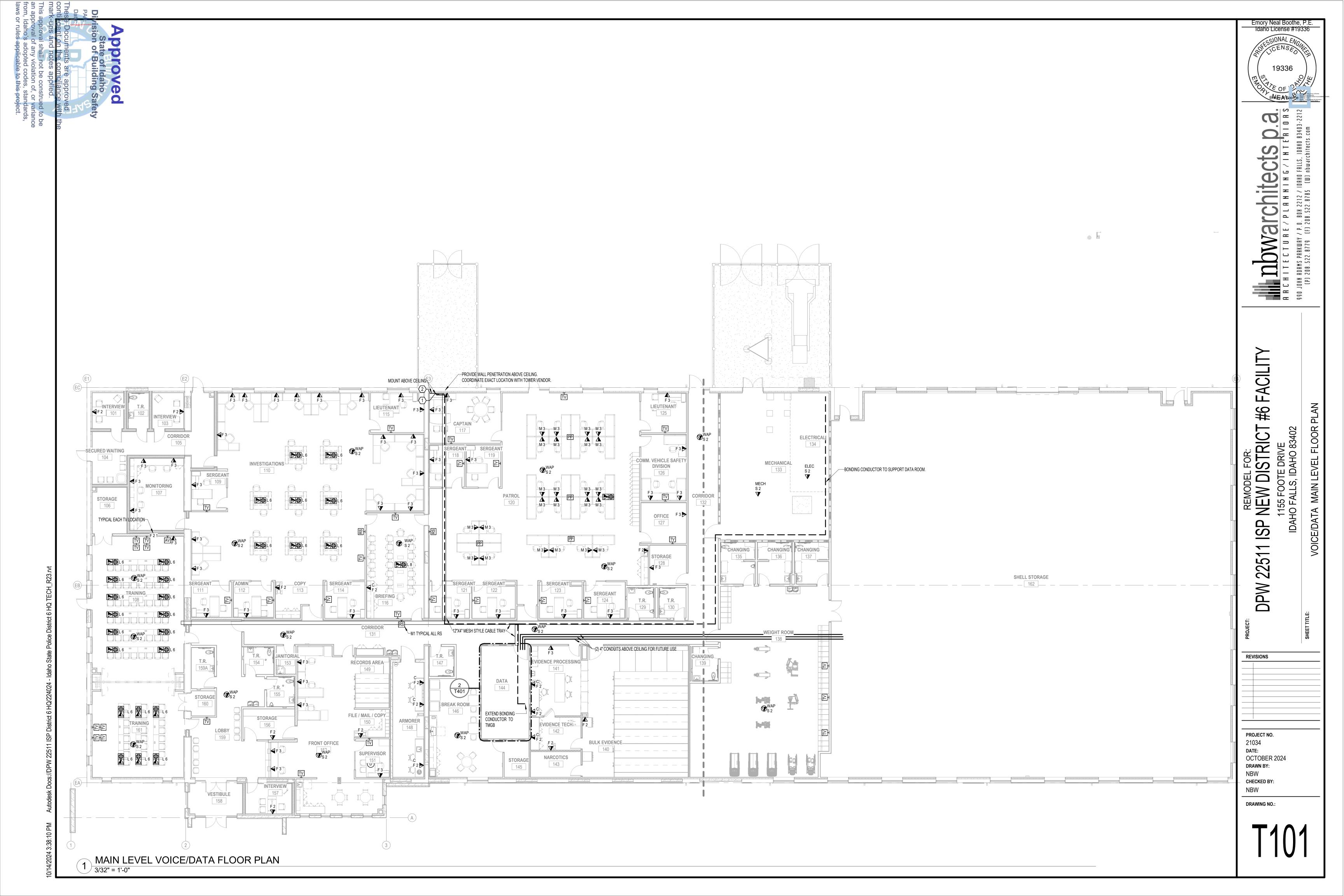
~

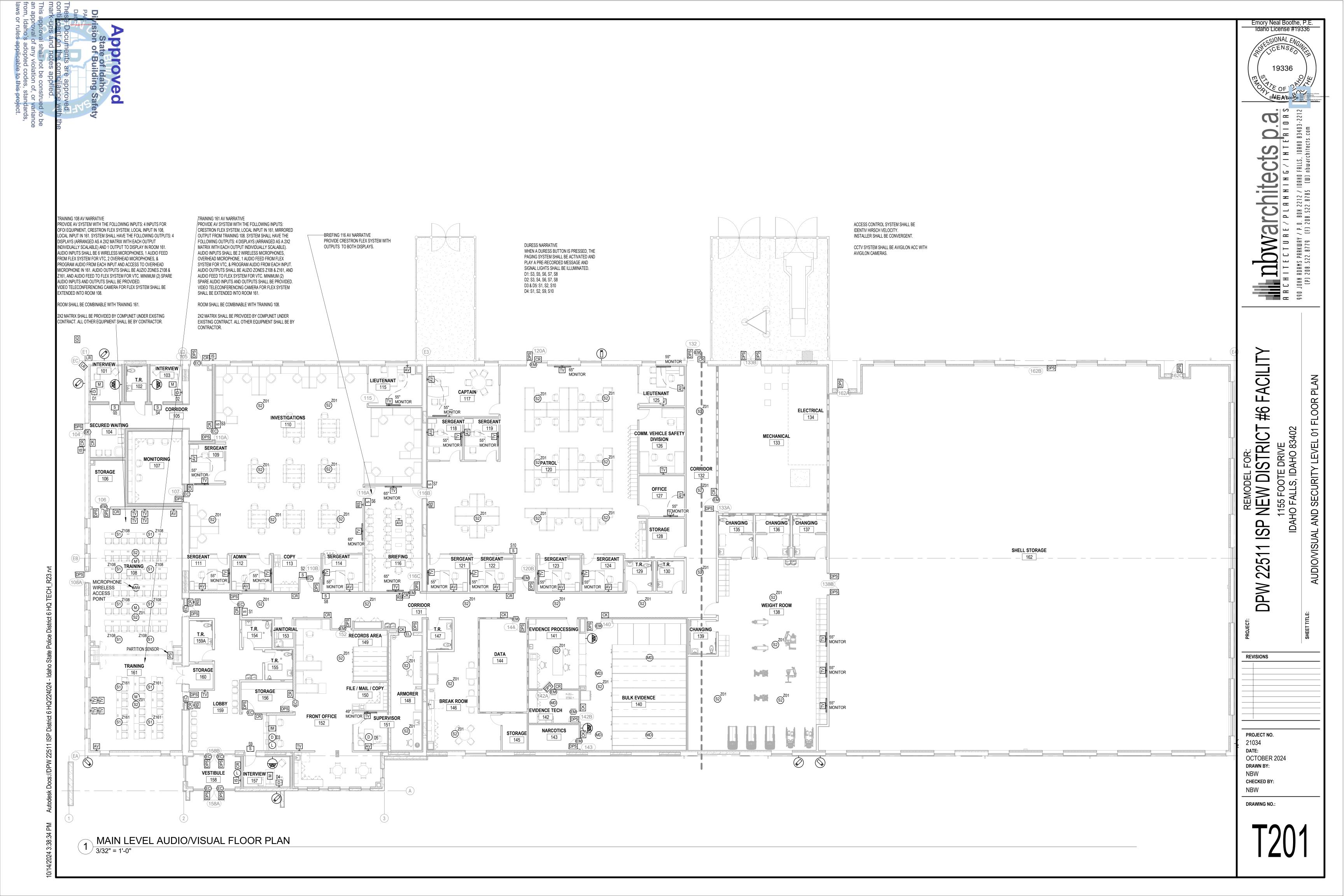
 \mathbb{R}

REVISIONS

PROJECT NO. OCTOBER 2024 DRAWN BY **CHECKED BY:**







APPARATUS BAY APPARATUS BAY -WALL MOUNTED PULL OUT RACK ARMORER 204 TOILET ROOM VEHICLE EVIDENCE
PROCESSING BAY

209

ADD ALTERNATE 1 - ROLLING ASSET TECHNOLOGY FLOOR PLAN
3/32" = 1'-0"

DPW 22511 ISP NEW DISTRICT #6 FACILITY
1155 FOOTE DRIVE
IDAHO FALLS, IDAHO 83402

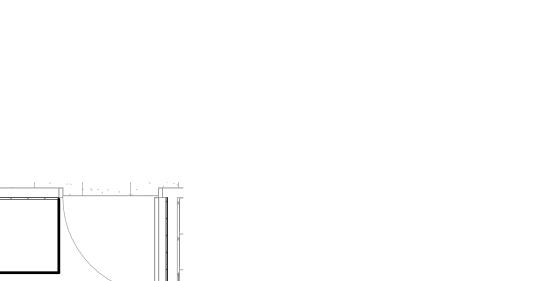
RAGE BUILDING

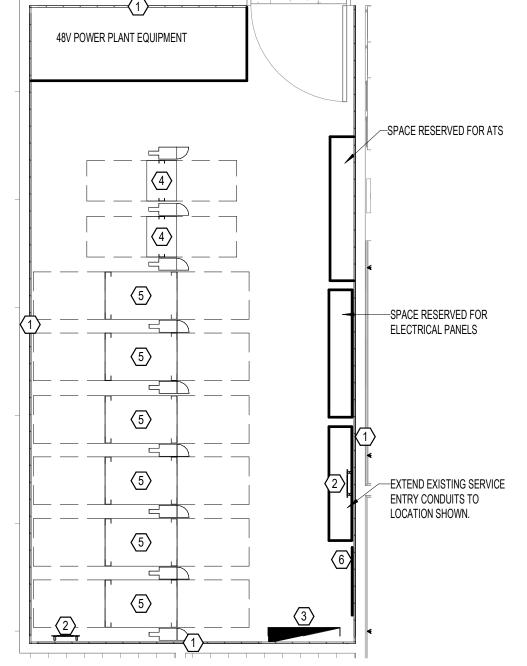
Emory Neal Boothe, P.E. Idaho License #19336

RECHITECTURE / PLANNING / INTERIORS 990 JOHN ADAMS PARKWAY / P.O. BOX 2212 / IDAHO FALLS, IDAHO 83403-2212 (P) 208.522.8779 (F) 208.522.8785 (W) nbwarchitects.com

OCTOBER 2024 CHECKED BY:

2 ENLARGED PLAN - DATA 144 - CABLE TRAY





1 ENLARGED PLAN - DATA 144 - EQUIPMENT PLAN 1/4" = 1'-0"

KEYNOTES

- PROVIDE A/C PLYWOOD BACKBOARD WITH ALL VOIDS FILLED AND SANDED. PAINT WITH (2) COATS OF INTUMESCENT PAINT AND MOUNT WITH "A" SIDE OUT. PROVIDE GROUND BAR COMPLYING WITH R56 REQUIREMENTS. CONNECT TO
- FACILITY MASTER GROUND BAR USING BONDING CONDUCTOR SIZED PER R56. PROVIDE ACCESS CONTROL PANEL MATCHING OWNER'S STANDARD. PROVIDE DEDICATED 125V, 20 AMP CIRCUIT. PROVIDE 2-POST RACK WITH VERTICAL CABLE MANAGERS, (2) VERTICAL PDUS CONNECTED TO OUTLETS OVERHEAD. PROVIDE HORIZONTAL GROUND BAR.
- COORDINATE PDU SELECTION WITH ELECTRICAL. PROVIDE 4-POST RACK WITH VERTICAL CABLE MANAGERS, (2) VERTICAL PDUS CONNECTED TO OUTLETS OVERHEAD. PROVIDE HORIZONTAL GROUND BAR. COORDINATE PDU SELECTION WITH ELECTRICAL.

PROVIDE CATV DISTRIBUTION EQUIPMENT. COORDINATE WITH ELECTRICAL TO PROVIDE A QUAD OUTLET AT LOCATION SHOWN.

FACILITY

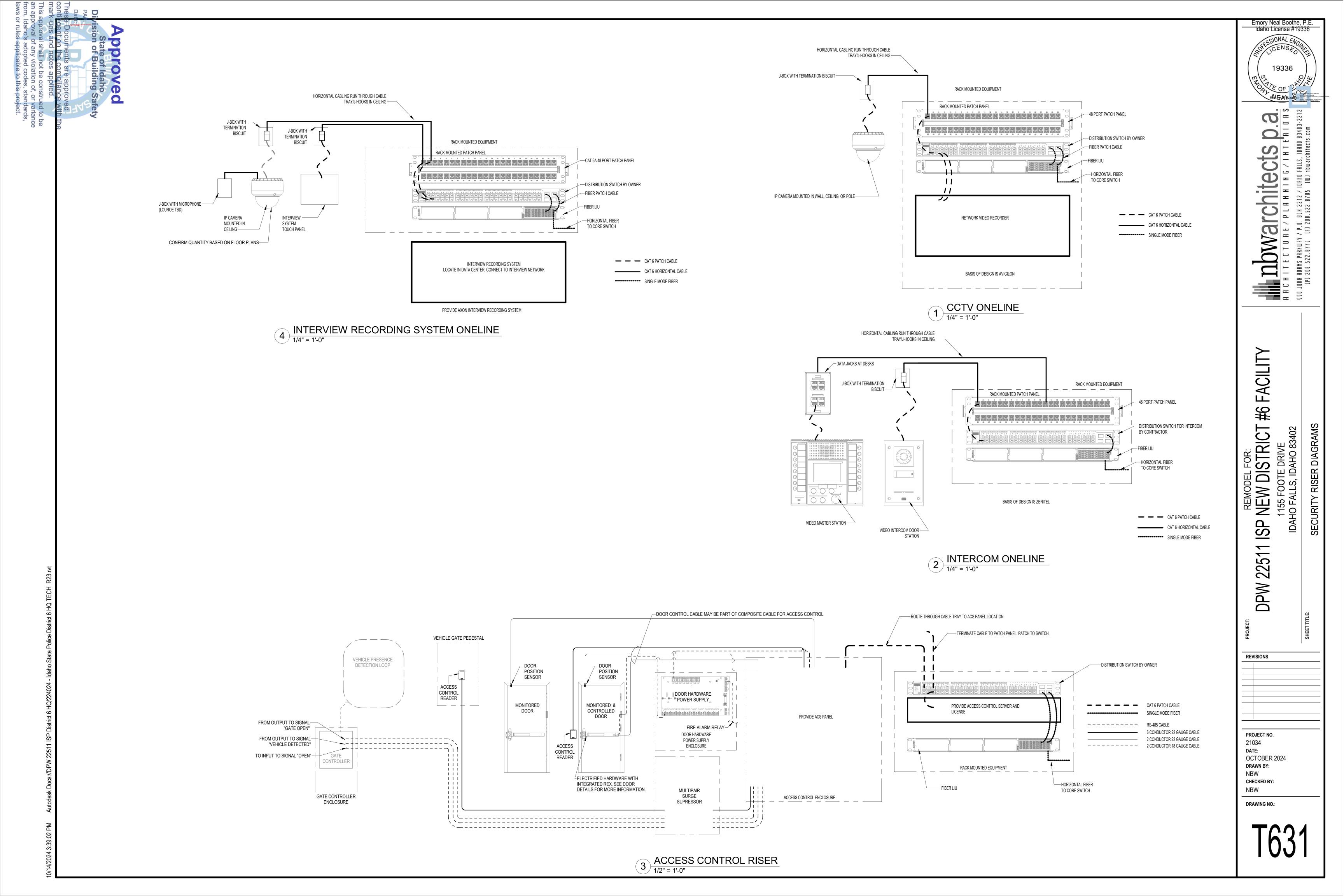
9#

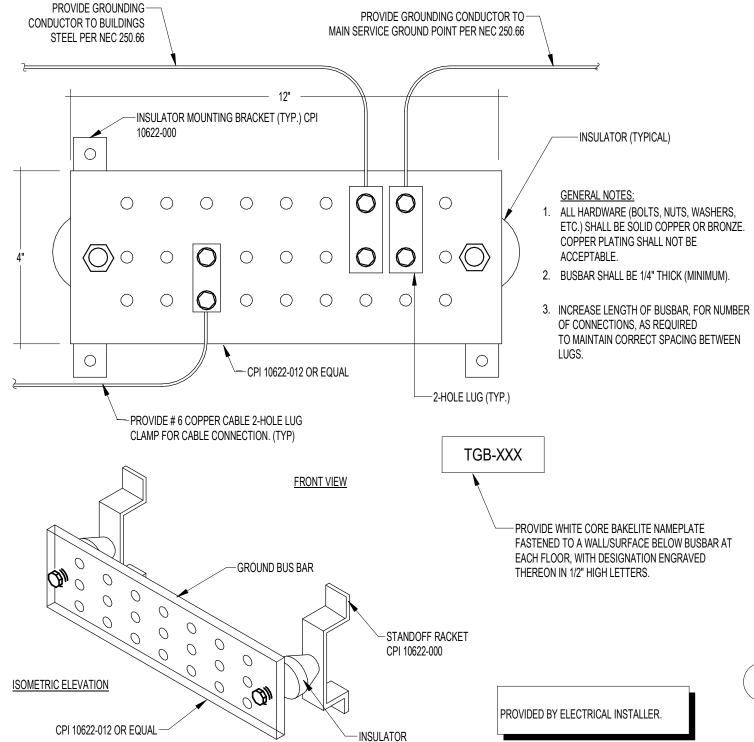
Emory Neal Boothe, P.E.

19336

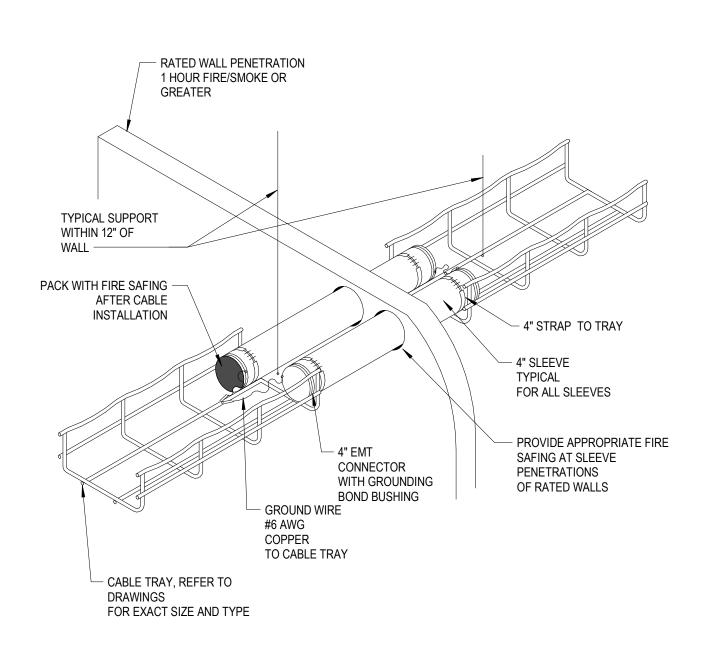
DPW 22511 ISP NEW DISTRICT # 1155 FOOTE DRIVE IDAHO 83402

OCTOBER 2024 DRAWN BY: NBW CHECKED BY:



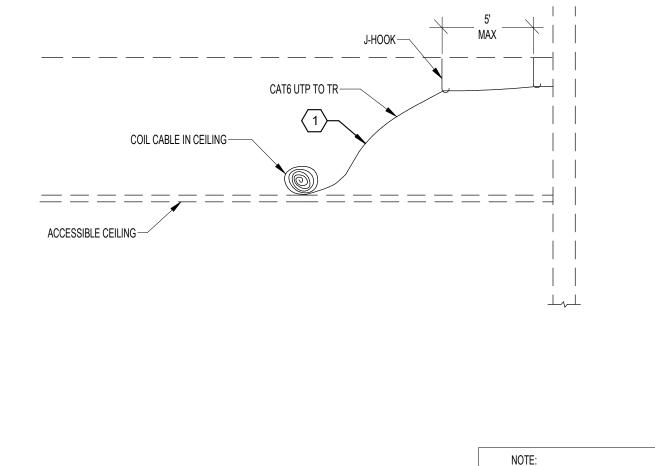


GROUND BUSBAR (TYPICAL FOR ALL TR'S)



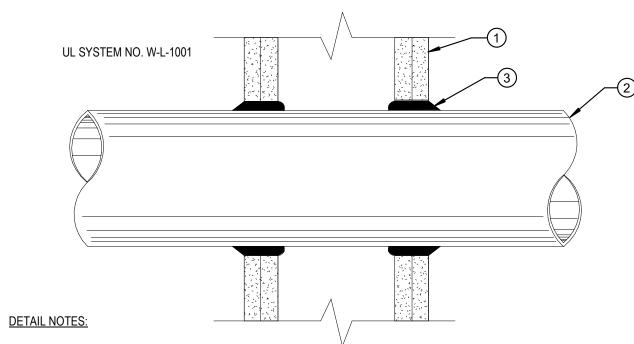
PROVIDE NUMBER OF SLEEVE AS REQUIRED TO MATCH CABLE TRAY CROSS SECTIONAL AREA. UL W-L 3112

6 CABLE TRAY WALL PENETRATION
12" = 1'-0"



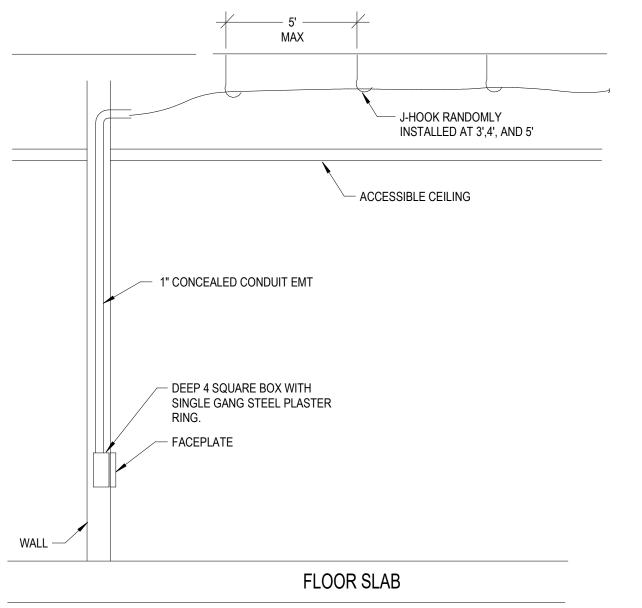
NOTE: WIRELESS ACCESS POINT AND ANTENNA NOT IN CONTRACT. DETAIL NOTE: (BY SCS CONTRACTOR) (1) COIL 20' LOOP IN CEILING.

OUTLET MOUNTING FOR WIRELESS ACCESS POINT 2 12" = 1'-0"

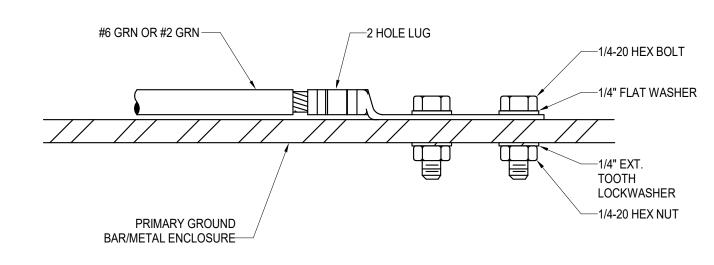


- (1) WALL ASSEMBLY THE 1, 2, 3, OR 4 HOUR FIRE RATED GYPSUM WALLBOARD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL U300 OR U400 SERIES WALL OR PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY.
- (2) CONDUIT NOM 4" DIAMETER OR SMALLER STEEL ELECTRICAL METALLIC TUBING. A MAXIMUM OF ONE CONDUIT IS PERMITTED IN THE FIRE STOP SYSTEM. CONDUIT TO BE INSTALLED NEAR CENTER OF STUD CAVITY WIDTH AND TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY.
- 3 FILL VOID OR CAVITY MATERIAL CAULK FILL MATERIAL BEARING THE UL CLASSIFICATION MARKING INSTALLED TO COMPLETELY FILL ANNULAR SPACE BETWEEN PIPE OR CONDUIT AND GYPSUM WALLBOARD AND WITH A MIN. 1/4" DIAMETER BEAD OF CAULK APPLIED TO PERIMETER OF CONDUIT AT ITS EGRESS FROM THE WALL. CAULK INSTALLED SYMMETRICALLY ON BOTH SIDES OF WALL ASSEMBLY. THE HOURLY F RATING OF THE FIRE STOP SYSTEM IS DEPENDENT UPON THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS SHOWN IN THE FOLLOWING TABLE. THE HOURLY T RATING OF THE FIRE STOP SYSTEM IS DEPENDENT UPON THE TYPE OR SIZE OF THE CONDUIT AND THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS TABULATED BELOW:

MAXIMUM CONDUIT	ANNULAR SPACE	FIRE RATING	T RATING
DIAMETER IN INCHES	IN INCHES	IN HOURS	IN HOURS
1	0 TO 3/16	1 OR 2	0, 1 OR 2
1	1/4 TO 1/2	3 OR 4	3 OR 4
4	0 TO 1-1/2	1 OR 2	0
6	1/4 TO 1/2	3 OR 4	0
12	3/16 TO 3/8	1 OR 2	0



TYPICAL FLUSH MOUNT OUTLET (CONCEALED CONDUIT) 1) 12" = 1'-0"



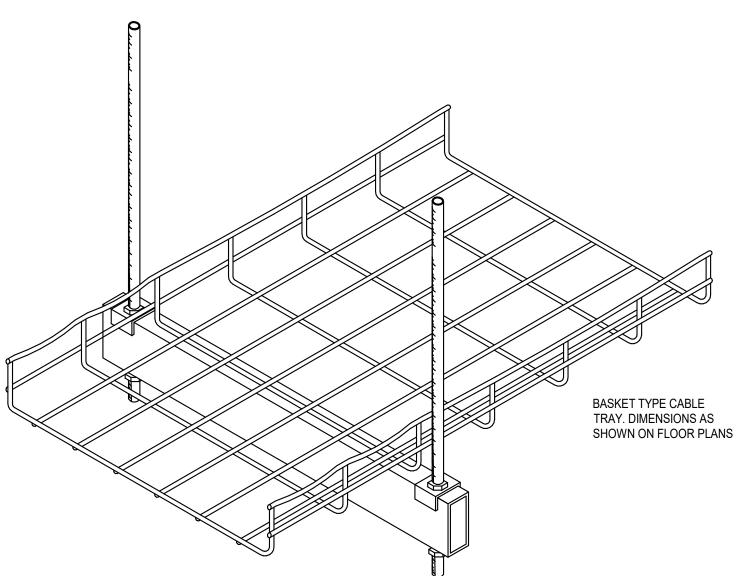
#6 OR #2 GRN TO GROUND BAR OF FLAT SURFACE. #6 IS USED PRIMARILY AS CABINET TO BUS LINK.

INSTALLATION NOTES:

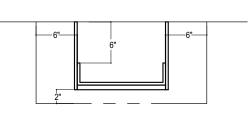
- A. SELECT BOLT LENGTH TO PROVIDE A MINIMUM OF TWO EXPOSED THREADS.
- B. BURNISH MOUNTING SURFACE TO REMOVE PAINT IN THE AREA OF LUG CONTACT. C. APPLY ANTI-OXIDANT COMPOUND TO MATING SURFACE OF LUG AND WIPE CLEAN EXCESS COMPOUND.
- GROUND BAR 2-LUG TERMINATION

 1" = 1'-0"

D. USE SOLID COPPER WIRE AND MECHANICAL 2-HOLE LUG FOR ALL EXTERIOR GROUNDING.



CABLETRAY MINIMUM CLEARANCES



7 CABLE TRAY

SIDES HANGER SUSPENSION METHOD 21034 DATE: OCTOBER 2024 DRAWN BY: NBW CHECKED BY: NBW DRAWING NO.:

Emory Neal Boothe, P.E. Idaho License #19336

FACILITY

9#

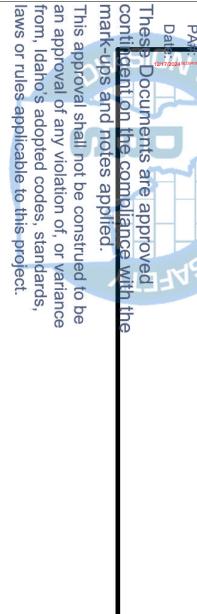
ISP NEW DISTRICT # 1155 FOOTE DRIVE IDAHO FALLS, IDAHO 83402

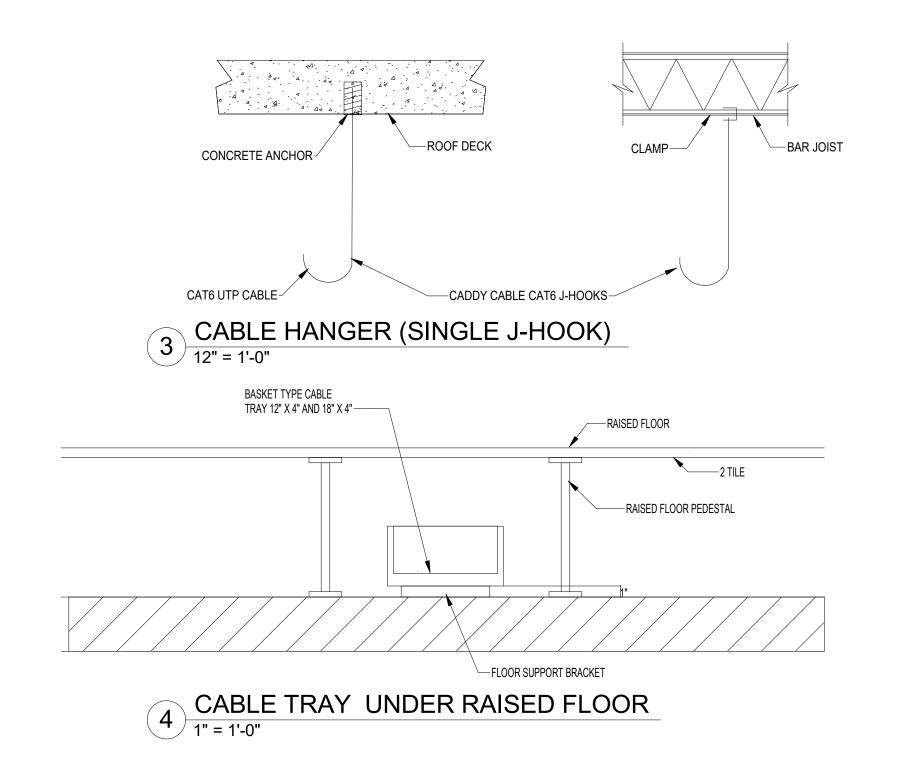
SP

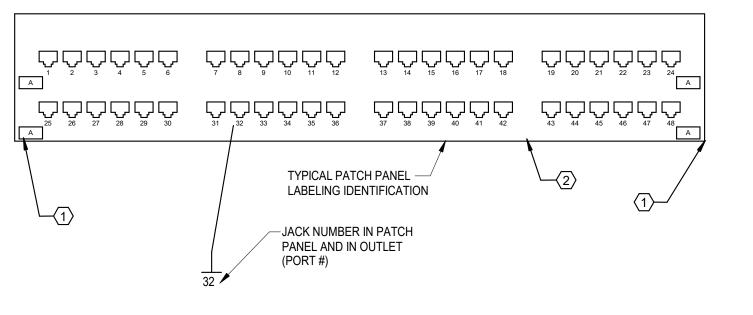
DPW 2251

REVISIONS

PROJECT NO.

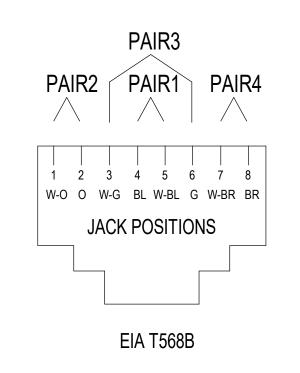






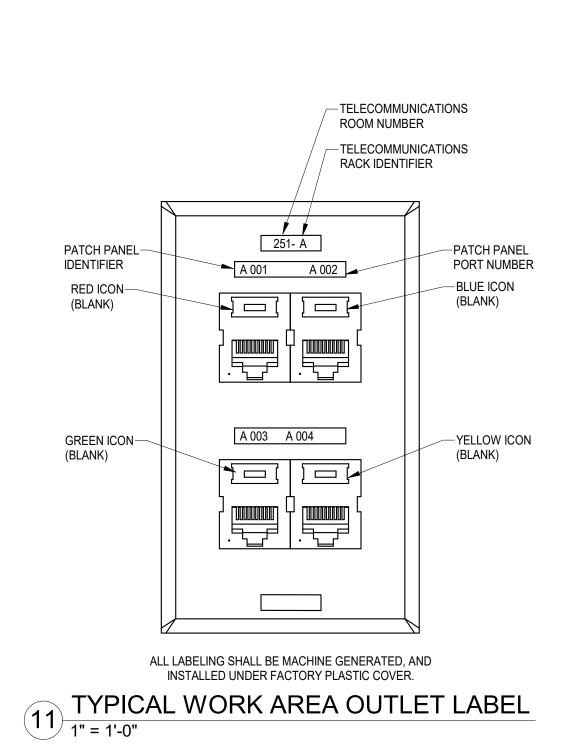
1 PATCH PANELS WILL BE # A,B,C, ETC. FOR THE NUMBER OF PANEL REQUIRED PER RACK. PROVIDE 2RU HORIZONTAL WIRE MANAGER BETWEEN EACH PATCH PANEL.

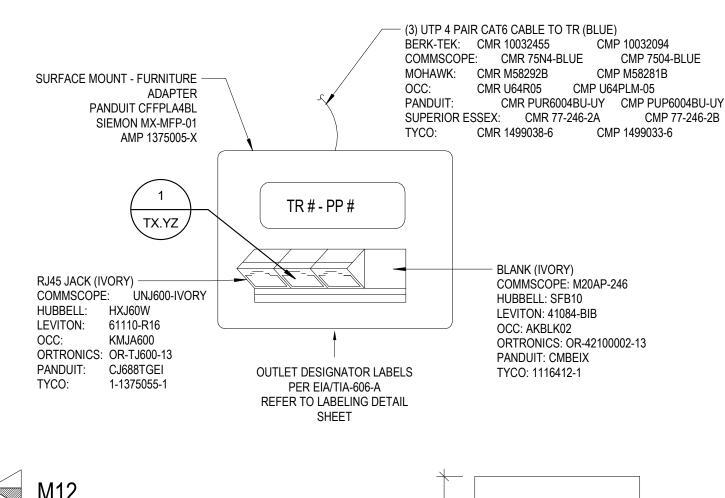
8 PATCH PANEL
1" = 1'-0"



MODULAR JACK WIRING (FRONT VIEW)

MODULAR JACK WIRING DETAIL





M12 NOTE: COORDINATE WITH INTERIOR DESIGN ARCHITECT FOR PANEL CUTOUT 3.44" REQUIREMENTS. PANEL CUT OUT REQUIREMENTS

MODULAR FURNITURE OUTLET - VOICE/DATA 12" = 1'-0"

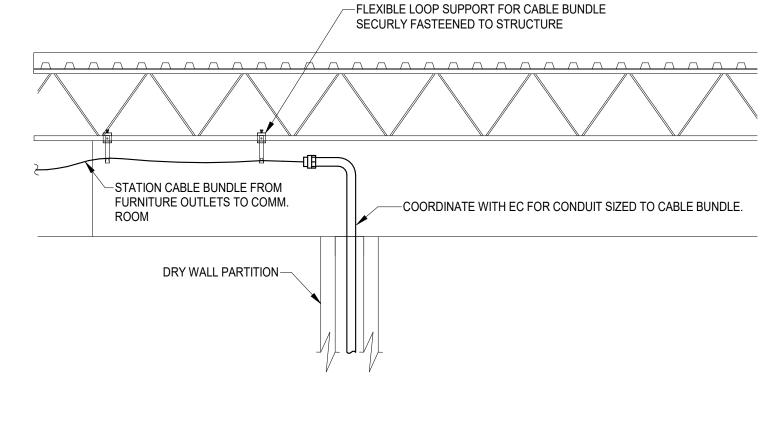
GROUNDING RISER NOTES

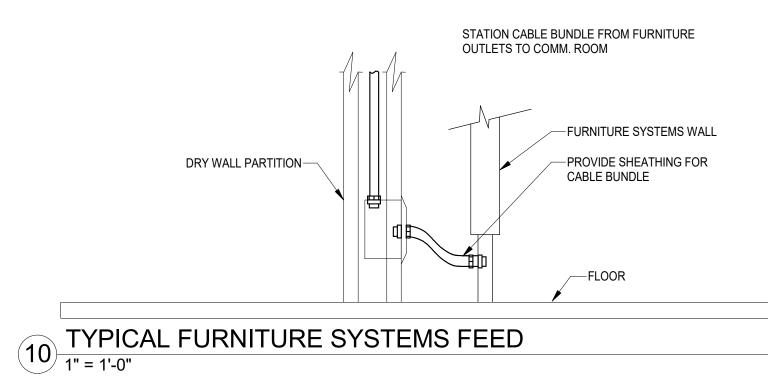
ALL COURMENT CHALL BE COOLINDED ACCORDING TO MOTOROLA DESCENADADOS

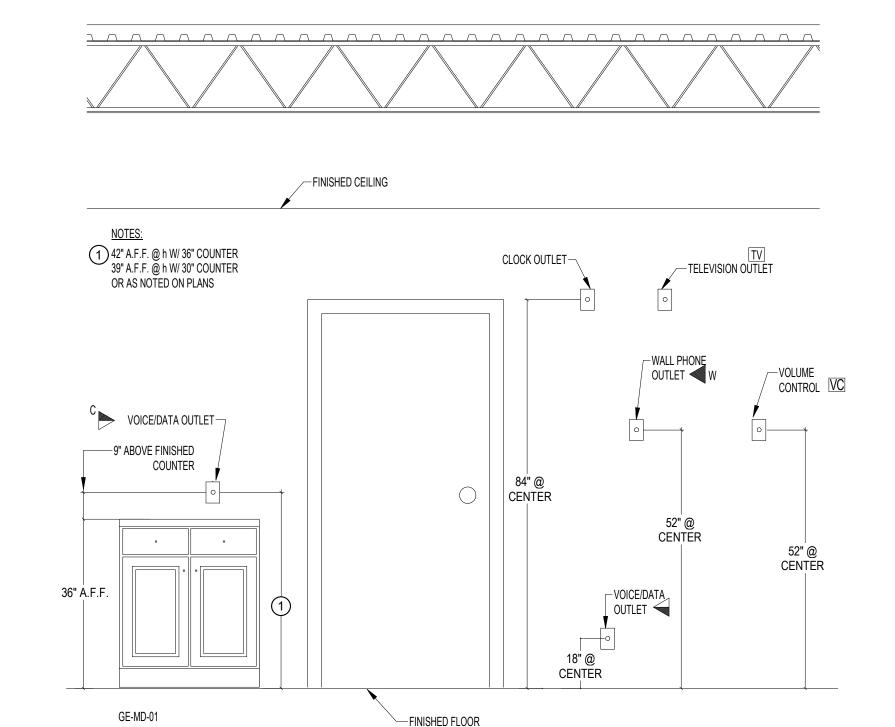
	IENT SHALL BE GROUNDED ACCORDING TO MOTOROLA R56 STANDARDS D CABLE SHALL BE PLENUM RATED	
	D CABLE SHALL BE OF APPROPRIATE GAUGE FOR THE DISTANCE IT IS RUN. REFERI	ENCE
TABLE FOR	LENGTHS AND GAUGES.	

TBB LENGTH LINEAR M (FT)	TBB SIZE AWG
LESS THAN 13	6
14-20	4
21-26	3
27-33	2
34-41	1
42-52	1/0
53-66	2/0
66	3/0

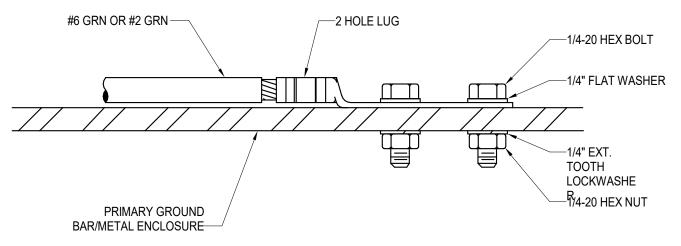
6 GROUNDING CABLE DISTANCE CHART







TYPICAL SYSTEMS OUTLET MOUNTING HEIGHTS



#6 OR #2 GRN TO GROUND BAR OF FLAT SURFACE

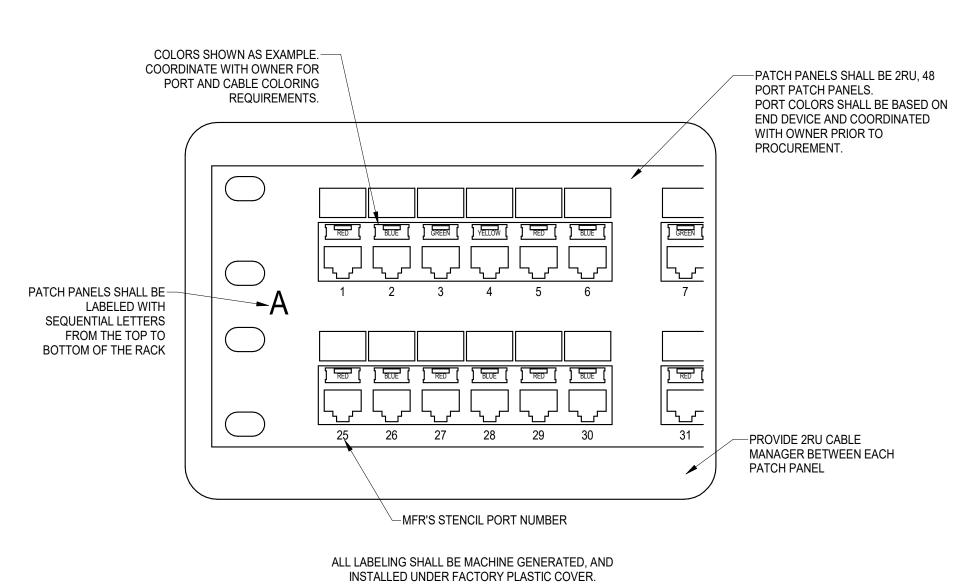
INSTALLATION NOTES:

- SELECT BOLT LENGTH TO PROVIDE A MINIMUM OF TWO EXPOSED THREADS.
- B. BURNISH MOUNTING SURFACE TO REMOVE PAINT IN THE AREA OF LUG CONTACT. C. APPLY ANTI-OXIDANT COMPOUND TO MATING SURFACE OF LUG AND WIPE CLEAN EXCESS COMPOUND.

#6 IS USED PRIMARILY AS CABINET TO BUS LINK.

D. USE SOLID COPPER WIRE AND MECHANICAL 2-HOLE LUG FOR ALL EXTERIOR GROUNDING.

GROUND BAR 2-LUG TERMINATION1



9 TYPICAL COOPER PATCH PANEL LABELING
1" = 1'-0"

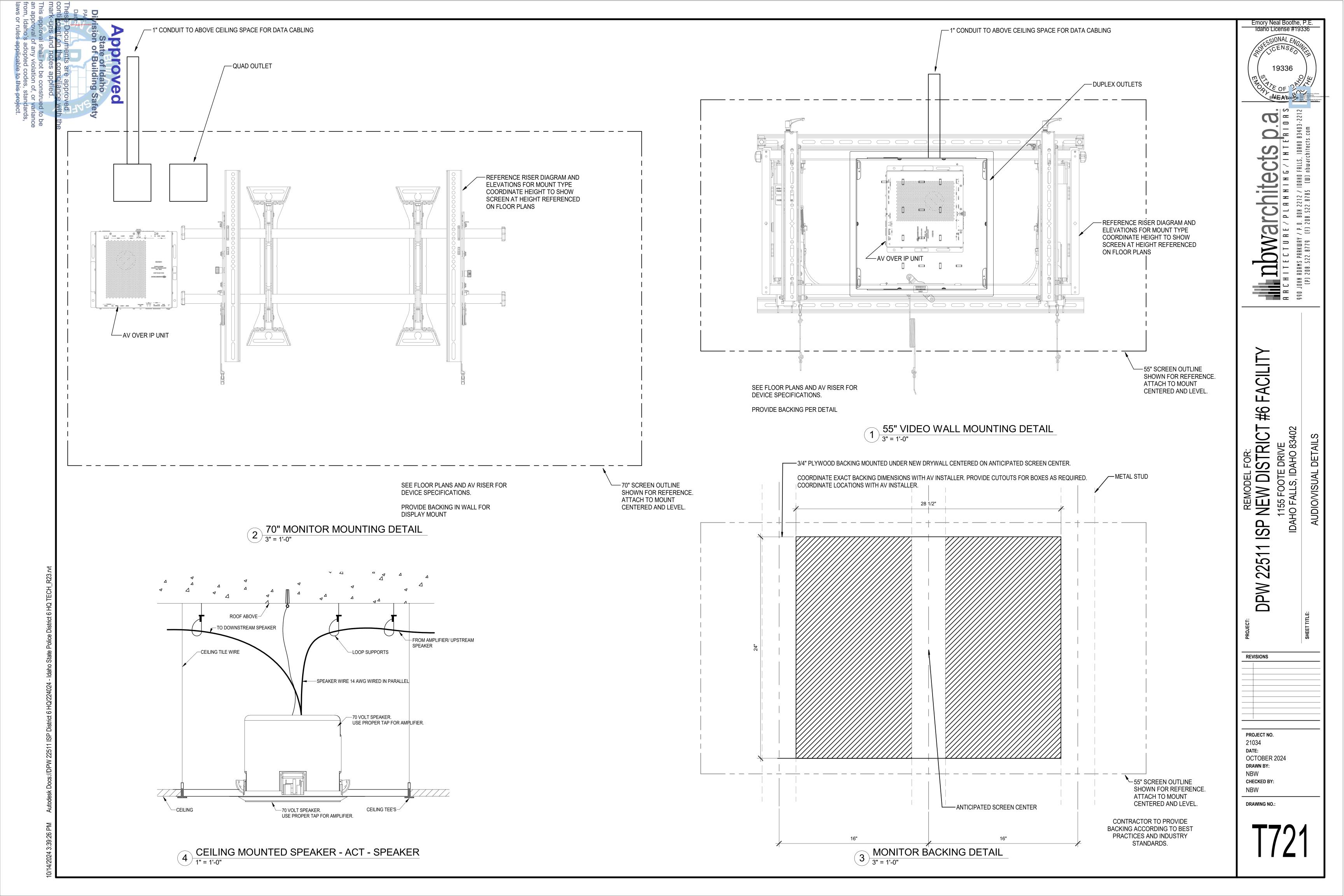
Emory Neal Boothe, P.E.

FACILITY 9# REMODEL FOR:
NEW DISTRICT ; 1155 FOOTE DRIVE IDAHO FALLS, IDAHO 83402

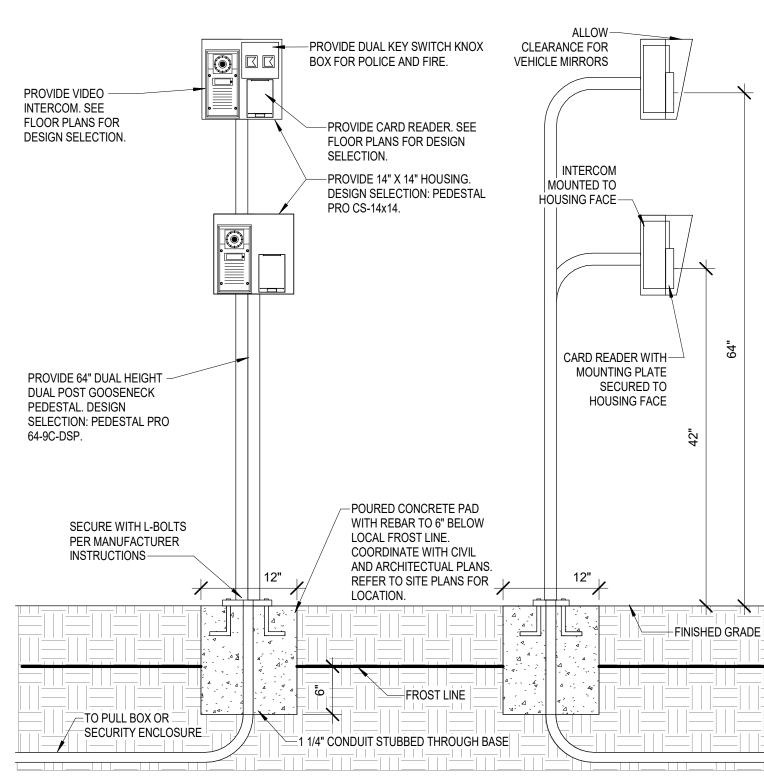
225 DPW

REVISIONS

PROJECT NO. 21034 DATE: OCTOBER 2024 DRAWN BY: NBW CHECKED BY: NBW



ROLL-UP DOOR WITH DPS 1" = 1'-0"



DUAL HEIGHT VEHICLE PEDESTAL

1" = 1'-0"

(1) #16 AWG STRANDED TINNED COPPER WIRE WITH CROSSLINKED POLYETHYLENE (XLPE) INSULATION. CAUTION: DO NOT FRACTURE WIRE INSULATION. LOOPS SHORTED TO GROUND WILL CAUSE — LOOP LEADS DETECTOR MALFUNCTION. WHEN PLACING WIRE IN SLOT, DO NOT USE SCREWDRIVER - 3/4" CONDUIT OR OTHER SHARP TOOLS. PAVEMENT LOOP DETECTOR AT VEHICLE GATES

NOTES:

- 1. LOOP LEADS SHALL NOT EXCEED 100'
- 2. LOOP LEADS MUST HAVE (6) TWIST PER FOOT.
- 3. LOOP & LOOP LEADS MUST BE LOCATED AT LEAST 18" FROM ANY ELECTRICAL POWER SERVICE OR OR STEEL REINFORCING
- 4. LOOP LEADS MUST BE IN SEPARATE CONDUIT BETWEEN LOOP

AND DETECTOR. THEY MUST NOT SHARE CONDUIT WITH OTHER

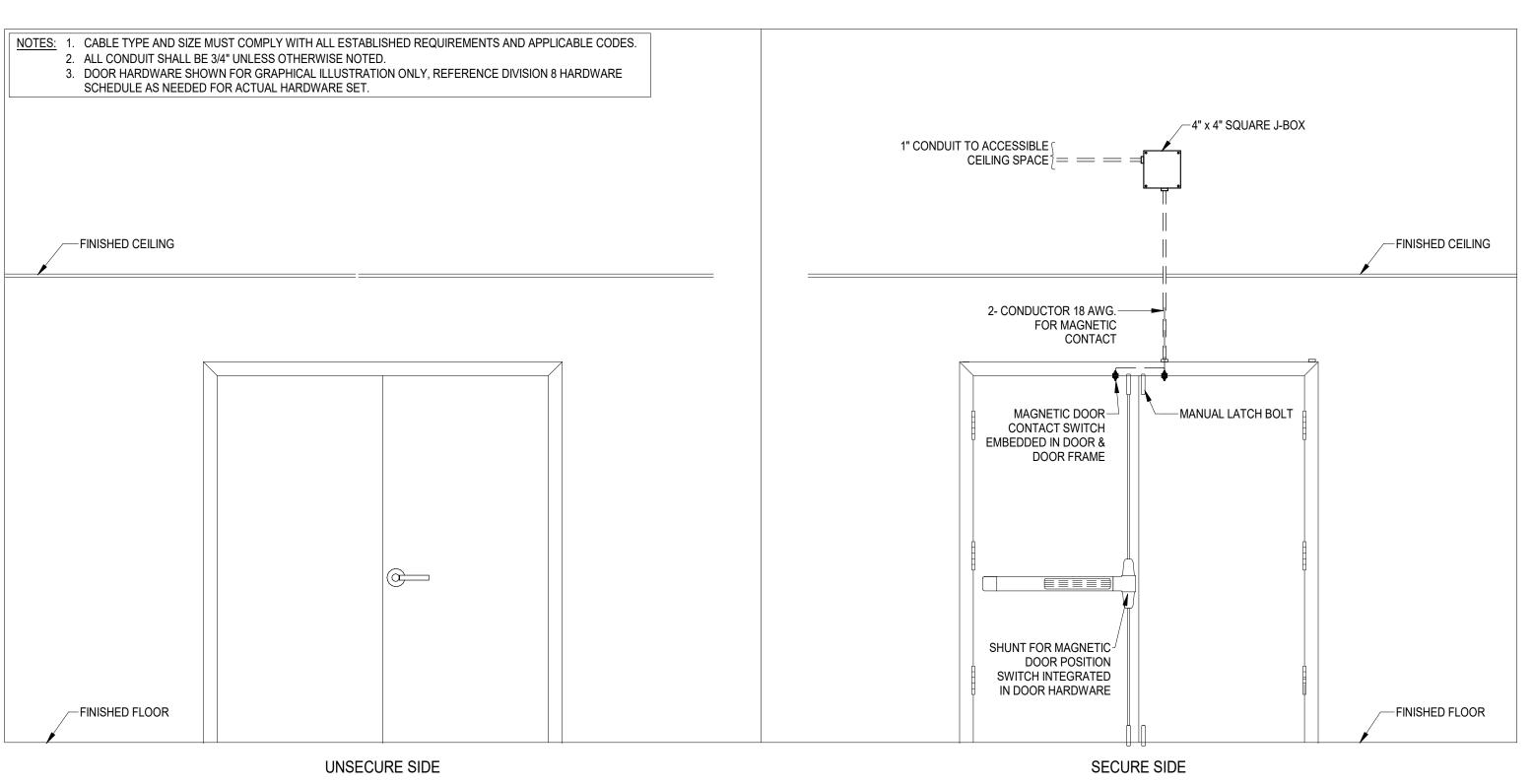
- 5. VERY ALL MANUFACTURER WIRE RECOMMENDATIONS.
- 6. ALL WIRE SHALL BE CONTINUOUS WITHOUT SPLICING.

WIRING OR LEADS FROM OTHER LOOPS.

7. SUBMIT SHOP DRAWINGS FOR REVIEW AND APPROVAL PRIOR TO PROCEEDING WITH WORK.

TYPICAL LAYOUT NOTES:

- 1. SAW SLOT 1/4" WIDE 1" DEEP. MAKE RECTANGULAR
- 2. SHAPE TO SPECIFIC LOOP DIMENSIONS PLUS SLOT FOR LEAD
- 3. GROUT WITH NO. 202 WEATHER BAN SEALANT. A PRODUCT OF THE 3M COMPANY" OR EQUIVALENT.



SECURITY DOUBLE DOOR - DOOR POSITION SWITCH (DPS)

Emory Neal Boothe, P.E. Idaho License #19336

FACILIT 9#

ISP NEW DISTRICT 1155 FOOTE DRIVE IDAHO FALLS, IDAHO 83402

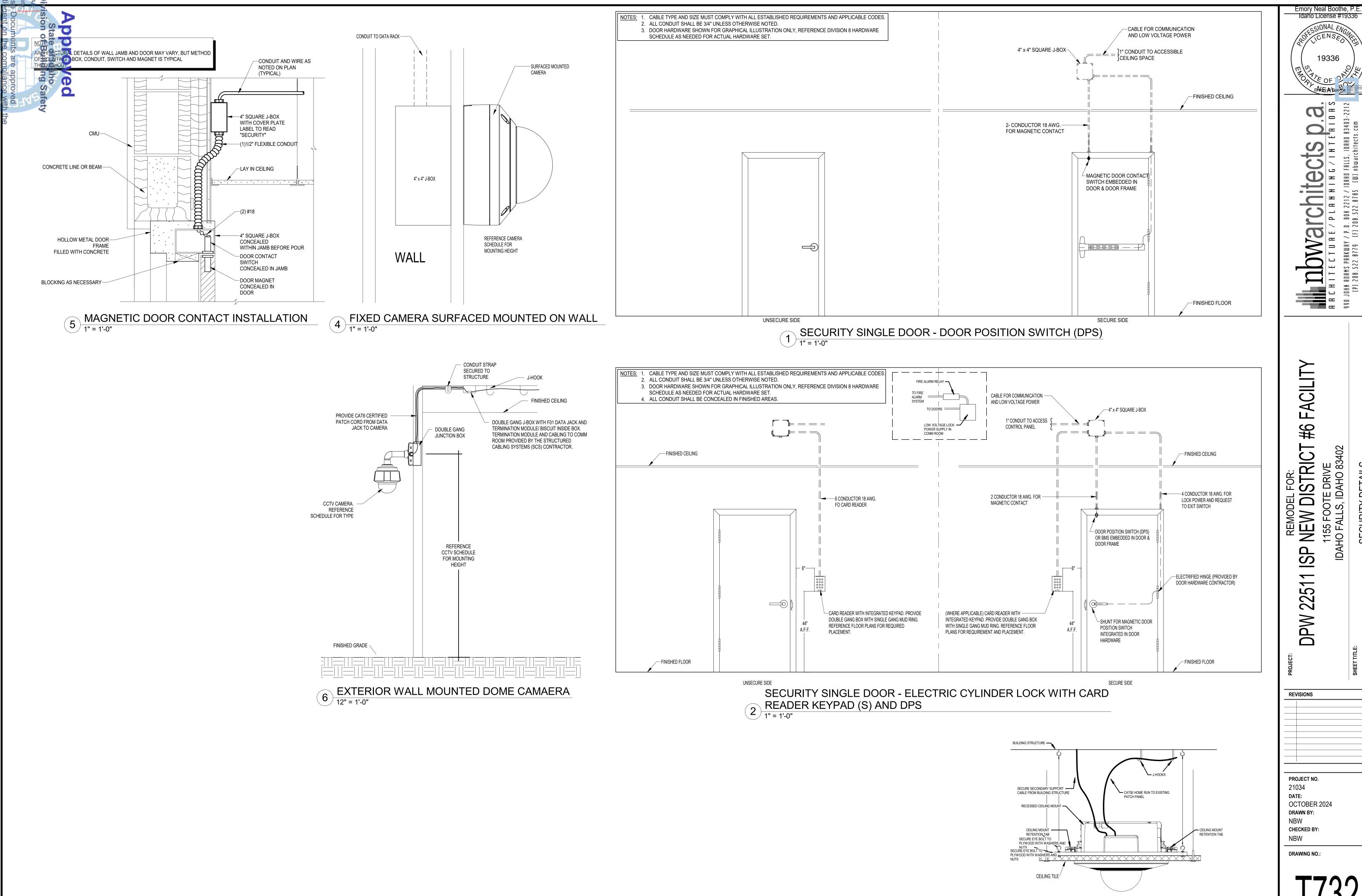
DPW 2251

SP BD

REVISIONS

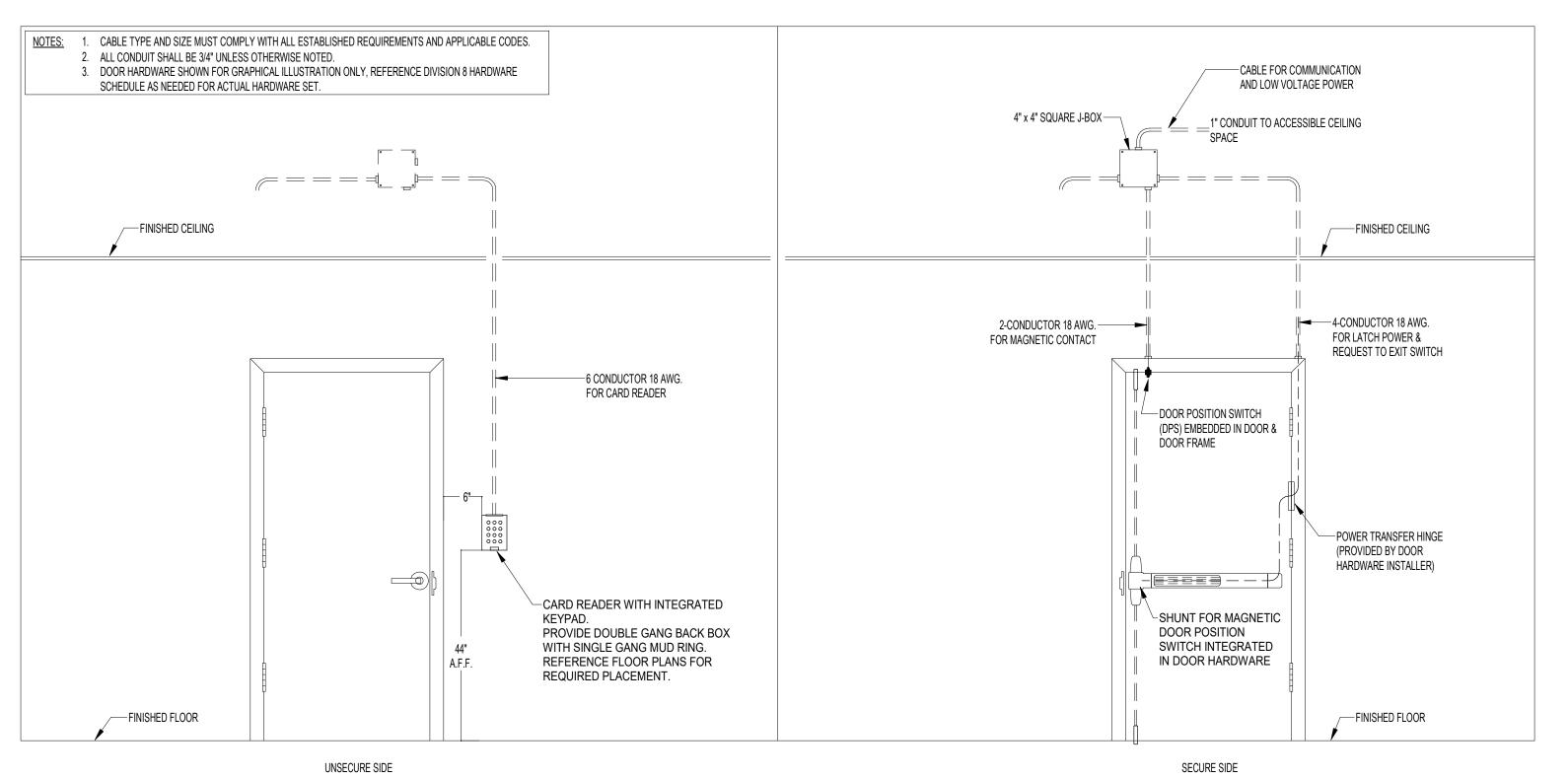
PROJECT NO.

21034 DATE: OCTOBER 2024 DRAWN BY: NBW CHECKED BY: NBW

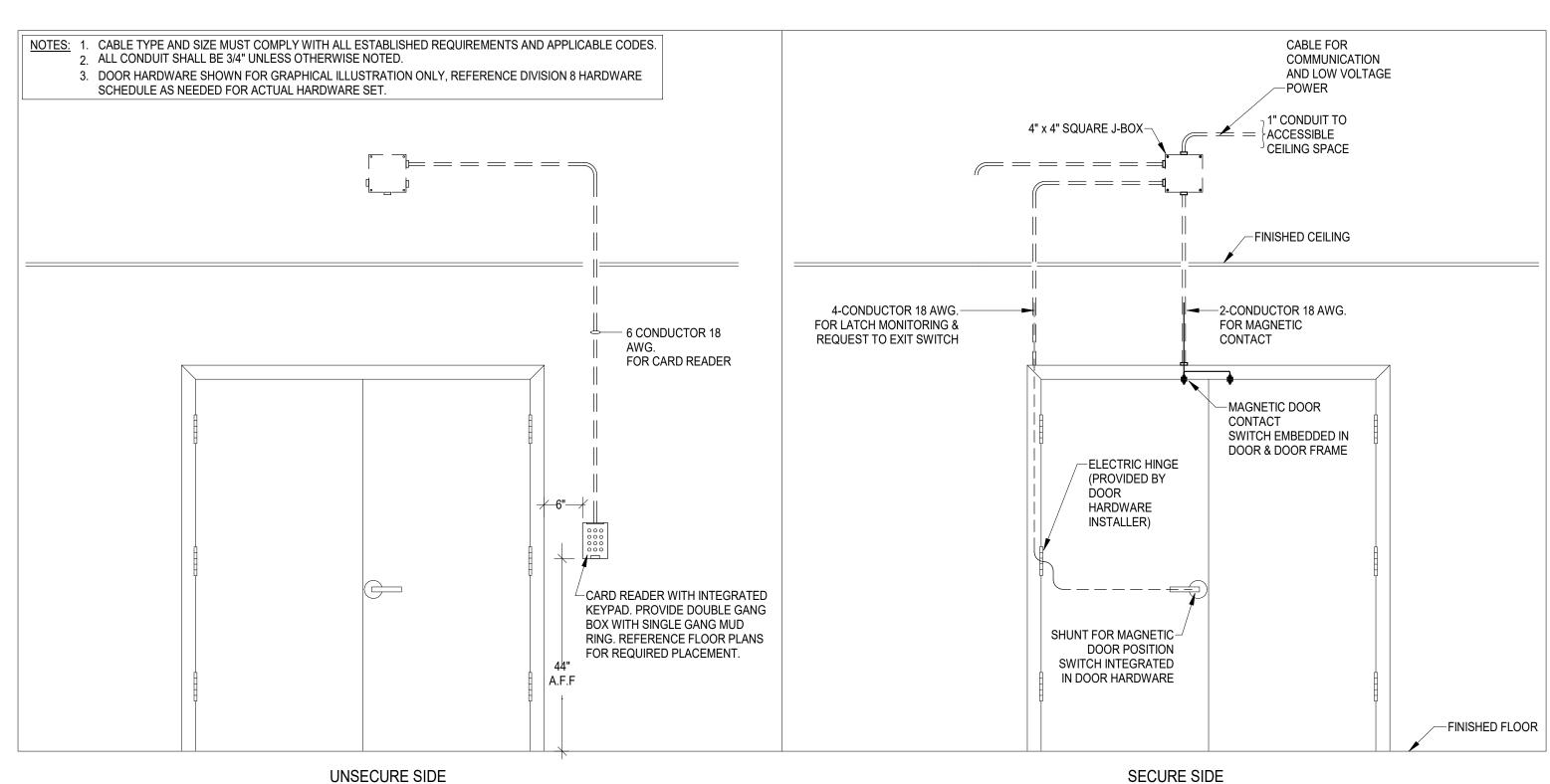


ISP NEW DISTRICT # 1155 FOOTE DRIVE IDAHO FALLS, IDAHO 83402

CEILING MOUNTED CAMERA - DROP CEILING



SECURITY SINGLE DOOR - QEL ELECTRIC LATCH WITH CARD READER AND DPS 1" = 1'-0"



SECURITY DOUBLE DOOR - ELECTRIC CYLINDER LOCK WITH

CARD READER KEYPAD

1" = 1'-0"

Indiana parkung y. p. 0. 80% 2212 / 108H0 FALLS, 108H0 83403-2212

Emory Neal Boothe, P.E.

DPW 22511 ISP NEW DISTRICT #6 FACILITY
1155 FOOTE DRIVE
IDAHO FALLS, IDAHO 83402

REVISIONS

REVISIONS

PROJECT NO.
21034
DATE:
OCTOBER 2024
DRAWN BY:
NBW
CHECKED BY:
NBW

DRAWING NO.:

T733

ALL MOUNTED DOUBLE FACE EXIT SIGN PROVIDE UNSWITCHED NDUCTOR. MOUNT AT +8'-0" UNO. SINGLE FACE EXIT SIGN, CEILING MOUNTED PROVIDE UNSWITCHED CONDUCTOR.

WALL MOUNTED SINGLE FACE EXIT SIGN PROVIDE UNSWITCHED CONDUCTOR. MOUNT AT +8'-0" UNO.

ARROW INDICATES DIRECTION TO BE SHOWN ON SIGN.

1'X1' LIGHT FIXTURE.

1'X1' LIGHT FIXTURE, PROVIDE EMERGENCY BATTERY BACKUP CONNECTED TO AN UNSWITCHED CONDUCTOR.

TRACK LIGHT

1'X4' LIGHT FIXTURE, PROVIDE EMERGENCY BATTERY BACKUP CONNECTED TO AN UNSWITCHED CONDUCTOR.

2'X4' LIGHT FIXTURE. PROVIDE EMERGENCY BATTERY BACKUP CONNECTED TO AN UNSWITCHED CONDUCTOR.

2'X2' LIGHT FIXTURE.

2'X2' LIGHT FIXTURE, PROVIDE EMERGENCY BATTERY BACKUP CONNECTED TO AN UNSWITCHED CONDUCTOR.

DIRECT/INDIRECT LIGHT FIXTURE. SEE SCHEDULE FOR LENGTH DIRECT/INDIRECT LIGHT FIXTURE. SEE SCHEDULE FOR LENGTH. PROVIDE EMERGENCY BATTERY BACKUP CONNECTED TO AN UNSWITCHED CONDUCTOR

STRIP LIGHT FIXTURE. SEE SCHEDULE FOR LENGTH. PROVIDE EMERGENCY BATTERY BACKUP CONNECTED TO AN UNSWITCHED CONDUCTOR

STRIP LIGHT FIXTURE. SEE SCHEDULE FOR LENGTH.

WALL MOUNTED LIGHT FIXTURE. WALL MOUNTED LIGHT FIXTURE, PROVIDE EMERGENCY BATTERY

BACKUP CONNECTED TO AN UNSWITCHED CONDUCTOR. RECESSED LIGHT FIXTURE

RECESSED LIGHT FIXTURE. PROVIDE EMERGENCY BATTERY BACKUP CONNECTED TO AN UNSWITCHED CONDUCTOR.

ROUND LIGHT FIXTURE

ROUND EMERGENCY LIGHT FIXTURE. PROVIDE EMERGENCY BATTERY BACKUP CONNECTED TO AN UNSWITCHED CONDUCTOR.

WALL MOUNTED LIGHT FIXTURE.

WALL MOUNTED EMERGENCY LIGHT FIXTURE. PROVIDE EMERGENCY BATTERY BACKUP CONNECTED TO AN UNSWITCHED CONDUCTOR.

POLE LIGHT 1 HEAD WITH POLE TIME CLOCK

PHOTO CONTROL CELL LOCATED 12" ABOVE ROOF FACING NORTH.

OCCUPANCY SENSOR. PROVIDE RELAYS AND POWER PACKS AS

LED DRIVER

EMERGENCY EGRESS LIGHTING WITH OUT FIXTURE HEADS. CONNECT TO AN UNSWITCHED CONDUCTOR.

EMERGENCY EGRESS LIGHTING. CONNECT TO AN UNSWITCHED CONDUCTOR.

WALL MOUNTED SINGLE FACE EXIT SIGN WITH EMERGENCY EGRESS LIGHTING. PROVIDE UNSWITCHED CONDUCTOR. MOUNT AT +8'-0" UNO.

CEILING MOUNTED. SINGLE FACE EXIT SIGN WITH EMERGENCY EGRESS LIGHTING. PROVIDE UNSWITCHED CONDUCTOR. CEILING MOUNTED. DOUBLE FACE EXIT SIGN WITH EMERGENCY

EGRESS LIGHTING. PROVIDE UNSWITCHED CONDUCTOR.

INDICATES FIXTURE TYPE. REFER TO FIXTURE SCHEDULE.

EXTERIOR WALL PACK

DESIGNATES CIRCUIT ON

THROUGHOUT ENTIRE CIRCUIT. ——

BEGINNING OF INDIVIDUAL CIRCUIT(S), CIRCUIT NUMBER(S) INDICATED. ——

CONDUIT DOWN

EXISTING -

UNMARKED CIRCUIT IS CONCEALED IN CEILING OR

WALL. MAINTAIN CONDUIT AND CONDUCTOR SIZE

EMERGENCY SOURCE—

EMERGENCY EXTERIOR WALL PACK. PROVIDE EMERGENCY BATTERY BACKUP CONNECTED TO AN UNSWITCHED CONDUCTOR

 $- \not\in - - - \not O$

CONDUIT, STUBBED, CAPPED AND MARKED WITH

PULL CORD AS SPECIFIED

· CONCEALED IN

UNDERGROUND

FLOOR OR

CIRCUITING SYMBOLS

DEVICES

SWITCH, TYPE AS INDICATED. +46"AFF DOUBLE POLE 3-\WAY 4-WAY

KEYED PILOT LIGHT DIMMER HP HORSEPOWER RATED

TO THERMAL OVERLOAD LV LOW VOLTAGE OS OCCUPANCY SENSOR

OR LOW VOLTAGE, MOMENTARY OVERRIDE VS VACANCY SENSOR SUPERSCRIPT INDICATES LIGHTS TO BE SWITCHED TOGETHER

DUAL LEVEL SWITCHING, INSIDE AND OUTSIDE LAMPS OF FIXTURE TO BE SWITCHED SEPARATELY.

DUAL LEVEL SWITCHING WITH OCCUPANCY SENSOR, INSIDE AND OUTSIDE LAMPS OF FIXTURE TO BE SWITCHED SEPARATELY. OCCUPANCY SENSOR WITH MANUAL DIMMING, SET FOR 50% AUTOMATIC ON, AUTOMATIC OFF, WITH MANUAL DIMMING.

SINGLE CONVENIENCE OUTLET, +18" AFF UNO

FLOOR MOUNT SINGLE CONVENIENCE OUTLET DUPLEX CONVENIENCE OUTLET, +18" AFF UNO

FLOOR MOUNT DUPLEX CONVENIENCE OUTLET

EMERGENCY DUPLEX CONVENIENCE OUTLET, +18" AFF UNO

SWITCHED DUPLEX CONVENIENCE OUTLET, +18" AFF UNO

FLOOR MOUNTED SWITCHED DUPLEX CONVENIENCE OUTLET USB DUPLEX CONVENIENCE OUTLET, +18" AFF UNO

USB FOURPLEX CONVENIENCE OUTLET, +18" AFF UNO

FOURPLEX CONVENIENCE OUTLET. +18"AFF UNO

FLOOR MOUNT FOURPLEX CONVENIENCE OUTLET CONNECTION POINT TO EQUIPMENT SPECIFIED, ELECTRICAL CONTRACTOR TO SUPPLY RACEWAY AND CONDUCTORS AND MAKE

FINAL CONNECTION TO EQUIPMENT UNDER THIS SECTION. UNO FLOOR MOUNTED CONNECTION POINT, SEE NOTE ABOVE FOR

REQUIREMENTS FLOOR MOUNTED JUNCTION BOX

WALL MOUNTED PUSH BUTTON, MOUNT AT SWITCH HEIGHT UNO WALL MOUNTED PUSH BUTTON, HANDICAPPED MOUNT AT SWITCH HEIGHT UNO

WALL MOUNTED PUSH BUTTON, MOUNT AT SWITCH HEIGHT UNO MOTOR STARTER/CONTACTOR, SIZE/POLES NEMA 1 UNO AS INDICATED COMBINATION STARTER AND DISCONNECT, SIZE/POLES, STARTER SIZE

AS INDICATED, NEMA 1 UNO FUSED DISCONNECT SWITCH, SIZE/POLES, FUSE SIZES AS INDICATED,

NON-FUSED DISCONNECT SIZE/ POLES AS INDICATED, NEMA 1 UNO THERMOSTAT, +46" AFF PROVIDE CONDUIT, J-BOX, CONDUCTORS AS REQUIRED TO CONTROL ASSOCIATED UNITS. UNO COORDINATE WITH

HUMIDISTAT, +46" AFF PROVIDE CONDUIT, J-BOX, CONDUCTORS AS REQUIRED TO CONTROL ASSOCIATED UNITS.

POWER POLE - DUAL CHANNEL RECESSED ENTERTAINMENT BOX

0

JUNCTION BOX

PANELBOARD. SEE SCHEDULE FOR TYPE

EQUIPMENT CABINET, SURFACE MOUNTED EQUIPMENT CABINET FLUSH MOUNTED

SURFACE MULTI-OUTLET RACEWAY

- CURRENT

CARRYING

CONDUCTORS

NEUTRAL CONDUCTORS

— GROUNDING CONDUCTOR

— CIRCUIT #

PANEL HOMERUN. (3/4"-2#12,1#12G CONDUCTORS UNO

EDISON STYLE SHARED NEUTRAL CONDUCTORS ARE NOT ALLOWED. EACH 1 POLE BREAKER SHALL BE FURNISHED WITH AN INDIVIDUAL DEDICATED NEUTRAL

MECHANICAL EQUIPMENT CALL OUT KITCHEN EQUIPMENT CALLOUT

SECURITY

ONE LINE

PANEL BOARD, SEE SCHEDULE FOR TYPE AND SIZE

CIRCUIT BREAKER, SIZE AND POLES INDICATED

INTERRUPTER SWITCH, SIZE AND POLES INDICATED

FUSED SWITCH, SIZE/POLES AND FUSE SIZE INDICATED

DRAW OUT CIRCUIT BREAKER, SIZE AND POLES INDICATED

INDIVIDUAL BREAKER WITH SHUNT TRIP, SIZE AND POLES

INDIVIDUAL BREAKER, SIZE AND POLES INDICATED. NEMA 1 UNO

'R'-ENERGY REDUCING MAINTENANCE SWITCH W/STATUS INDICATOR

DISCONNECT SWITCH, SIZE AND POLES INDICATED. NEMA 1 UNO

INDICATED. NEMA 1 UNO

GROUND FAULT PROTECTION

LSIGR — ADJUSTABLE BREAKER SETTINGS

'L'-LONG TIME

'S'-SHORT TIME

'I'-INSTANTANEOU

'G'-GROUND FAULT

(PER SPECIFICATIONS):

OVERHEAD SERVICE DROP

METER AND BASE

DRY TYPE TRANSFORMER

AD MOUNT TRANSFORMER

NEUTRAL

G/E/ GENERATOR SET, MAIN BREAKER SIZE INDICATED

AUTOMATIC TRANSFER SWITCH (ATS)

TRANSIENT VOLTAGE SURGE SUPPRESSION

FUSE, SIZE AND TYPE INDICATED, PROVIDE FUSE FOR EACH POLE

DELTA WYE TRANSFORMER UNO

CCTV CAMERA POWER SUPPLY

CCTV SYSTEM POWER SUPPLY ADJUSTABLE CAMERA (PAN/TILT/ZOOM)

FIXED CAMERA CAMERA IN OUTDOOR HOUSING

ADJUSTABLE CAMERA (PAN/TILT/ZOOM) IN OUTDOOR HOUSING

CCTV OUTLET, +18" UNO CEILING MOUNTED CCTV OUTLET

PANIC BUTTON - MOUNTED UNDER COUNTER

SECURITY SYSTEM KEYPAD CONTROLLER COORDINATE BOX SIZE AND MUDRING WITH VENDOR

CR CARD READER CEILING MOUNTED MOTION SENSOR

WALL MOUNTED MOTION SENSOR, MOUNTING HEIGHT INDICATED

FIRE ALARM - DESIGN BUILD NOTES

A. THE FIRE ALARM SYSTEM WILL BE DESIGN BUILD BY THE CONTRACTOR. THE FIRE ALARM CONTRACTOR SHALL PRODUCE A FIRE ALARM SUBMITTAL THAT INCLUDES ALL DRAWINGS, CALCULATIONS AND CUT SHEETS REQUIRED TO OBTAIN COMPLETE APPROVAL FROM ALL APPROVING AGENCIES.

THE FIRE ALARM CONTRACTOR SHALL PROVIDE FIRE ALARM SUBMITTALS TO THE ENGINEER OF RECORD FOR REVIEW PRIOR TO SUBMITTING TO THE AUTHORITY HAVING JURISDICTION AND AND SHALL NOT PROCEED UNTIL THESE SUBMITTALS HAVE BEEN REVIEWED, APPROVED AND RETURNED.

REFER TO THE ARCHITECTURAL CODE PLAN(S) FOR THE OCCUPANCY TYPES AND OCCUPANCY LOADS FOR EACH AREA.

D. UTILIZE CURRENTLY ADOPTED CODES AND AMENDMENTS FOR FIRE ALARM REQUIREMENTS.

E. THE BUILDING IS FULLY SPRINKLED WITH WET SPRINKLER SYSTEM.

THE FIRE ALARM CONTRACTOR SHALL PROVIDE AND INSTALL ALL FIRE ALARM INITIATING, MONITORING, INTERFACE AND RELATED DEVICES AND EQUIPMENT AS REQUIRED FOR A COMPLETE AND FUNCTIONING CODE COMPLIANT SYSTEM.

G. THE FIRE ALARM SYSTEM SHALL PROVIDE ALL REQUIRED NOTIFICATION THROUGH OUT THE FACILITY. COORDINATE THE MOUNTING HEIGHTS OF THE NOTIFICATION DEVICES WITH THE CEILING AND STRUCTURE HEIGHTS IN THE BUILDING. REFER TO ARCHITECTURAL PLANS FOR CEILING/STRUCTURE INFORMATION.

PROVIDE ALL IN-DUCT AND/OR DUCT SMOKE DUCT DETECTORS AS REQUIRED. COORDINATE THE FINAL QUANTITY AND LOCATIONS WITH MECHANICAL

THE FIRE ALARM CONTROL PANEL SHALL BE LOCATED IN THE FIRE RISER ROOM THE NOTIFICATION APPLIANCE CIRCUIT POWER SUPPLIES SHALL BE LOCATED IN ELECTRICAL ROOMS, STORAGE AND SIMILAR ROOMS ADJACENT TO ELECTRICAL

PROVIDE 120V POWER, CONTROL RELAYS AND IN-DUCT DETECTORS FOR ALL SMOKE AND SMOKE/FIRE DAMPERS. COORDINATE WITH MECHANICAL PLANS.

PROVIDE SMOKE DETECTORS, RELAYS AND RELATED CONNECTIONS FOR ALL DOOR HOLD OPENS AS REQUIRED.

PROVIDE ALL 120V CIRCUITS AS REQUIRED TO ACCOMMODATE FIRE ALARM CONTROL PANEL, DRY SYSTEM AIR COMPRESSOR(S), NITROGEN GENERATOR(S FIRE BELLS, NAC EXTENDER PANELS, AMPLIFIER PANELS AND RELATED ITEMS.

M. ALL FIRE ALARM CIRCUIT BREAKERS SHALL HAVE A RED HANDLE AND BE LOCKABLE TYPE.

N. THE FIRE ALARM SYSTEM SHALL INCLUDE A FLUSH MOUNTED REMOTE ANNUNCIATOR LOCATED IN AN OCCUPIED AREA IN THE LOBBY, RECEPTION OR SIMILAR AREA(S). THE LOCATION(S) SHALL BE COORDINATED WITH THE ARCHITECT AND OWNER PRIOR TO PREPARING THE REQUIRED SUBMITTALS.

O. FIRE ALARM CABLING SHALL BE CONCEALED. AREAS IN WALLS, ABOVE HARD CEILINGS AND SIMILAR (NON-ACCESSIBLE AREAS) SHALL BE IN CONDUIT. EXPOSED CABLING IS NOT ALLOWED.

PROVIDE ALL DETECTION, MONITOR AND CONTROL DEVICES AS REQUIRED FOR THE ELEVATOR(S).

Q. THE FIRE ALARM CONTRACTOR SHALL PRODUCE RECORD DOCUMENTS OF THE ACTUAL SYSTEM AS INSTALLED. THE RECORD DOCUMENTS SHALL BE PRODUCED TO THE ACCEPTANCE OF THE ARCHITECT AND ENGINEER. ONE COMPLETE SET OF PRINTED DOCUMENTS AND A PDF VERSION SHALL BE DELIVERED TO THE ARCHITECT.

R. INSTALL PLENUM RATED FIRE ALARM CONDUCTORS FROM ALL FIRE ALARM DEVICES INDICATED TO THE FIRE ALARM CONTROL PANEL OR NAC EXTENDER PANEL(S) AS REQUIRED. STUB 3/4" CONDUIT FROM DEVICE TO VOID ABOVE CEILING. PROVIDE NAC EXTENDER PANELS (QUANTITY AS REQUIRED) IN LOCATIONS INDICATED AND CIRCUITING AS REQUIRED FOR A COMPLETE INSTALLATION. CIRCUIT THE FIRE ALARM NOTIFICATION AND INITIATION DEVICES PER THE ELECTRICAL SPECIFICATIONS. FURNISH AND INSTALL ALL APPURTENANCES AND PROGRAMMING REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM. REFER TO ELECTRICAL FIRE ALARM SPECIFICATIONS FOR SYSTEM REQUIREMENTS AND SUBMITTAL PROCEDURES.

REFER TO THE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

COMMUNICATIONS

JUNCTION BOX FOR FUTURE TELEPHONE/DATA OUTLET. MOUNT AT 18" A.F.F. UNO. PROVIDE SINGLE-GANG MUD RING WITH BLANK COVER PLATE. PROVIDE 1" CONDUIT TO NEAREST ACCESSIBLE CEILING

TELEPHONE/DATA OUTLET. MOUNT AT 18" A.F.F. UNO. PROVIDE 1" CONDUIT TO NEAREST ACCESSIBLE CEILING. INSTALL QUANTITY OF DATA (#D) AND TELEPHONE (#T) CABLES INDICATED TO THE NEAREST DATA RACK. PROVIDE (2) DATA CABLES IF A CABLE QUANTITY IS NOT

FLOOR MOUNTED BOX FOR FUTURE TELEPHONE/DATA OUTLET. JUNCTION BOX WITH SINGLE-GANG MUD RING. PROVIDE 1" CONDUIT TO NEAREST ACCESSIBLE CEILING SPACE. PROVIDE BLANK COVER

FLOOR MOUNTED TELEPHONE/DATA OUTLET. PROVIDE 1" CONDUIT TO NEAREST ACCESSIBLE CEILING. INSTALL QUANTITY OF DATA (#D) AND TELEPHONE (#T) CABLES INDICATED TO THE NEAREST DATA RACK. PROVIDE (2) DATA CABLES IF A CABLE QUANTITY IS NOT INDICATED.

INTERCOM SYSTEM CALL BUTTON. +46" UNO.

CEILING MOUNTED SPEAKER WITH BACKBOX WALL MOUNTED SPEAKER, WITH BACKBOX +80" UNO

VOLUME CONTROL, +46" UNO

TELEVISION OUTLET, +18" AFF UNO. PROVIDE 1-1/4" CONDUIT TO NEAREST ACCESSIBLE CEILING SPACE

CEILING MOUNTED TELEVISION OUTLET TELEPHONE TERMINAL BOARD

CT-XX CABLE TRAY, 4" DEEP, WIRE BASKET STYLE, 'XX' INDICATES WIDTH PROVIDE ALL FITTINGS AND SUPPORT HARDWARE REQUIRED

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



ELECTRICAL ABBREVIATIONS

A AMPERES

AFG ABOVE FINISHED GRADE

AMPS INTERRUPTING CAPACITY

AMP TRIP

BOTTOM OF STRUCTUR

C CEILING MOUNTED

CB CIRCUIT BREAKER

CKT | CIRCUIT

CF COMPACT FLUORESCENT

DEMOLITION DEMOLITION

FÀĆP FIRE ALARM CONTROL PANEL

HIGH INTENSITY DISCHARGE

HVAC HEATING, VENTILATION, & AIR CONDITIONING

HIGH PRESSURE SODIUM

J-BOX JUNCTION BOX

LCP LIGHTING CONTROL PANE

NORMALLY CLOSE

NOT IN CONTRACT

NORMALLY OPEN

OCCUPANCY SENSOR

NTS NOT TO SCALE

P POLES
PC PHOTO-CONTROL

PVC POLYVINYL CHLORIDE PWR POWER

RECEPTACLE

RELOCATED

TOE KICK

UC UNDERCABINET UG UNDERGROUND

V VOLT
VA VOLT-AMPERE

INSTALLED/

INSTALL

TO BE DETERMINED

TIME DELAY RELAY

TSP TWISTED SHIELDED PAIR
TRT TRIPLE TUBE
TTB TELEPHONE TERMINAL BO.
(TYP.) TYPICAL

U.N.O. UNLESS NOTED OTHERWISE

WG WIRE GUARD
WP WEATHER PROOF/NEMA 3R

PROVIDED/ PROVIDE AND INSTALL / PROVIDED AND

PROVIDE BY INSTALLED BY / PROVIDE AND INSTALL

THIS IS A STANDARD LIST OF COMMONLY USED

ELECTRICAL ABBREVIATIONS. SOME OF THE

ABBREVIATIONS SHOWN ABOVE MAY NOT BE

USED IN THIS DRAWING PACKAGE.

TELEPHONE TERMINAL BOARD

SF SQUARE FEET

MAIN EUGS ONET
MODULAR METERING CENTER
METAL HALIDE
MAIN SWITCH BOARD

NATIONAL ELECTRICAL CODE

MUSGROVE ENGINEERING. P.A

234 S. Whisperwood Way Boise, ID 83709 208.384.0585 645 West 25th Street Idaho Falls, ID 83402 208.523.2862 www.musgrovepa.com

PROJECT NO. 24-091



_ ___ _

ACIL

9#

NEW DIS

2

22

 \mathbb{R}

OTE S, ID/

1155 FOO IDAHO FALLS

-

THESE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE: THEREFORE THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL ELECTRICAL EQUIPMENT AND DEVICE LOCATIONS WITH ARCHITECTURAL, MECHANICAL, AND PLUMBING DIVISIONS PRIOR TO ROUGH-IN. REFER TO AND COORDINATE WITH ARCHITECTURAL, MECHANICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL WORK THAT IS REQUIRED BY THE ELECTRICAL CONTRACTOR.

LOCATED WITHIN DEDICATED ELECTRICAL OR MECHANICAL ROOMS. USE OF SURFACE MOUNTED RACEWAYS IN ALL OTHER SPACES MUST BE APPROVED BY THE ARCHITECT FOR EACH LOCATION. WHERE SURFACE RACEWAYS ARE APPROVED. UTILIZE WIREMOLD. OR APPROVED EQUAL. SURFACE MOUNTED RACEWAYS PAINTED TO MATCH SURROUNDING

REFER TO ARCHITECTURAL ELEVATIONS FOR OUTLET HEIGHTS WHERE THE SPECIFIC OUTLIFT HEIGHT IS NOT INDICATED. REFER TO THE FLECTRICAL LEGEND FOR THE DEFAULT OUTLET HEIGHT WHEN NOT INDICATED ON ELEVATIONS OR ON AT THE DEVICES.

PROVIDE PULL-LINE IN ALL EMPTY CONDUITS.

MECHANICAL EQUIPMENT INDICATED IS SHOWN IN AN APPROXIMATE LOCATION. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR

ROUGH-IN. ALL NON-LOCKING, 120-V, 15 AND 20-AMP RECEPTACLES SHALL BE LISTED

H. CONTRACTOR SHALL COORDINATE WITH AN UNDERGROUND LOCATING SERVICE PRIOR TO COMMENCING WORK. SEE CIVIL DRAWINGS FOR ADDITIONAL SITE INFORMATION. COORDINATE WITH OTHER SITE

SITE LIGHTING AND UTILITY EQUIPMENT SHOWN IN APPROXIMATE LOCATION. COORDINATE EXACT LOCATION WITH CIVIL DRAWINGS, PROPERTY LINES, AND UTILITY COMPANIES PRIOR TO

ROUTE CONDUITS IN COMMON TRENCH WHERE POSSIBLE REFER TO

TRENCHING DETAIL.

DEMO: L. THE ELECTRICAL DEMOLITION DRAWING(S) PROVIDED ARE INTENDED TO ASSIST THE ELECTRICAL CONTRACTOR IN ESTABLISHING AREAS REQUIRING DISCONNECTION, REMOVAL, OR RELOCATION OF ELECTRICAL EQUIPMENT, OUTLETS, WIRING, DEVICES, FIXTURES, ETC. AND MAY NOT INDICATE ALL DEVICES OR THE FULL EXTENT OF DEMOLITION AND RECONNECTION WHICH MAY BE REQUIRED. THE ELECTRICAL CONTRACTOR SHALL VISIT THE JOB SITE AND THOROUGHLY EXAMINE ALL REQUIRED DEMOLITION WORK AND INCLUDE ALL LABOR AND INCIDENTALS THAT WILL BE NECESSARY TO PERFORM DEMOLITION RECONNECTION AND TEMPORARY POWER CONNECTIONS IN THE

DISTRIBUTED AMPLIFIER SYSTEM / BI DIRECTIONAL AMPLIFIER: INSTALL PLENUM RATED CONDUCTORS AND ANTENNAS CABLES FROM ALL DEVICES ASSOCIATED WITH DISTRIBUTED AMPLIFIER SYSTEM / BI DIRECTIONAL AMPLIFIER IF SYSTEM TESTING INDICATES NEED FOR THE SYSTEM TO BE INSTALLED. FURNISH AND INSTALL ALL APPURTENANCES AND PROGRAMMING REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM. REFER TO SPECIFICATIONS 285500 FOR SYSTEM TESTING REQUIREMENTS AND SPECIFICATION 285000 FOR INSTALLATION PERFORMANCE SPECIFICATIONS.

ELECTRICAL GENERAL NOTES

ALL CONDUIT AND JUNCTION BOXES ARE TO BE CONCEALED UNLESS

TERMINATE ALL LOW-VOLTAGE CONDUITS WITH INSULATED THROAT BUSHING.

TAMPER-RESISTANT RECEPTACLES PER NEC 406.12

ROUGH-IN. REFER TO POLE BASE DETAIL FOR SITE LIGHTING POLE BASE REQUIREMENTS.

M. ALL ELECTRICAL DEVICES AND WALLS INDICATED ON THE ELECTRICAL DEMOLITION DRAWING(S) ARE TO REMAIN UNLESS OTHERWISE

BUILDING SHALL BE TESTED FOR DISTRIBUTED AMPLIFIER SYSTEM / BI DIRECTIONAL AMPLIFIER IN CONFORMANCE WITH SPECIFICATIONS 285500 WHEN BUILDING SHELL IS COMPLETED. ALL EXTERIOR SURFACES, DOORS AND WINDOWS SHALL BE COMPLETELY INSTALLED AND INTERIOR WALL COVERINGS INSTALLED PRIOR TO TESTING.

CONTRACTORS BID PRICE. INCLUDE ESTIMATED COST PLUS +15% FOR PROCUREMENT AND INSTALLATION OF FULLY FUNCTIONAL DISTRIBUTED AMPLIFIER SYSTEM / BI DIRECTIONAL AMPLIFIER SYSTEM IN CONFORMANCE WITH SPECIFICATIONS 285000 AS A SEPARATE LINE ITEM OF THE ELECTRICAL CONTRACTORS BID

SPECIFICATIONS 285500 AS A SEPARATE LINE ITEM OF THE ELECTRICAL

INCLUDE COST FOR SYSTEM TESTING N CONFORMANCE WITH

REVISIONS

PROJECT NO. NOVEMBER 2024

DRAWING NO.:

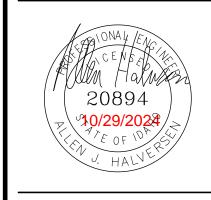
CHECKED BY:

DRAWN BY:

DH/AH



MUSGROVE ENGINEERING, P.A. 234 S. Whisperwood Way Boise, ID 83709 208.384.0585 645 West 25th Street Idaho Falls, ID 83402 208.523.2862 www.musgrovepa.com PROJECT NO. 24-091



FACILITY

9#

REMODEL FOR:

1 ISP NEW DISTRICT #

1155 FOOTE DRIVE
IDAHO FALLS, IDAHO 83402

DPW 22511

REVISIONS

PROJECT NO. 21034 DATE:

DRAWN BY: DH/AH CHECKED BY:

MNB

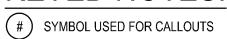
DRAWING NO.:

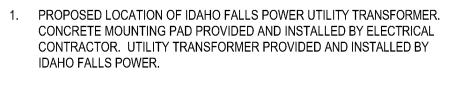
NOVEMBER 2024

LM-56,58

- 6. EXISTING SECTIONALIZING CABINET TO REMAIN.
- BY IDAHO FALLS POWER.
- CIRCUIT TO NEW LCP AND PANEL LM. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL NEW 2#10, 1#10G CONDUCTORS THROUGH EXISTING CONDUIT BACK TO A LIGHTING RELAY, PROVIDED AND
- 11. 2 1/2"C 4#4/0, 1#4G, 24" BELOW GRADE.
- 12. INTERCEPT EXISTING 4"C, 48" BELOW GRADE AND EXTEND TO NEW TRANSFORMER LOCATION.
- 13. NEW 4"C, 48" BELOW GRADE AND EXTEND TO NEW 3 PHASE SECTIONALIZING CABINET LOCATION.
- 14. NEW IDAHO FALLS POWER 3 PHASE SECTIONALIZING CABINET INSTALLED BY IDAHO FALLS POWER. MOUNTING BASE PROVIDED BY IDAHO FALLS
- CONTRACTOR, 48" BELOW GRADE.
- 1#10G CONDUCTORS THROUGH EXISTING CONDUIT BACK TO A LIGHTING RELAY, PROVIDED AND INSTALLED BY THE ELECTRICAL CONTRACTOR, IN THE ELECTRICAL ROOM. NEW LIGHTING RELAY TO BE CONTROLLED BY EXTERIOR LIGHTING CIRCUIT IN THE LIGHTING CONTROL PANEL. ELECTRICAL CONTRACTOR TO INTERCEPT EXISTING BURIED CONDUIT AND INSTALL AN

KEYED NOTES:





- 2. CT CABINET PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR, SEE DETAIL DRAWING E-400.
- 3. CT METER, SEE DETAIL DRAWING E-400.
- 4. GENERATOR DOCKING STATION MOUNTED TO GENERATOR.
- 5. EXISTING TRANSFORMER TO BE REMOVED.
- 7. EXISTING POWER POLE TO REMAIN.
- 8. EXISTING 4"C TO BE ABANDONED, CONDUCTORS TO BE REMOVED
- 9. EXISTING PARKING LOT LIGHT POLE TO REMAIN. CONNECT EXISTING INSTALLED BY THE ELECTRICAL CONTRACTOR, IN THE ELECTRICAL ROOM. NEW LIGHTING RELAY TO BE CONTROLLED BY EXTERIOR LIGHTING CIRCUIT IN THE LIGHTING CONTROL PANEL.
- 10. SEE ONE-LINE DIAGRAM DETAIL DRAWING E-400.

- POWER, INSTALLED BY ELECTRICAL CONTRACTOR.
- 15. NEW IDAHO FALLS POWER 4"PVC CONDUIT, INSTALLED BY ELECTRICAL
- 16. NEW SERVICE ENTRANCE RATED AUTOMATIC TRANSFER SWITCH PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR.
- 17. NEW LIGHT POLE AND FIXTURE. SEE SHEET E-002 FOR POLE BASE DETAILS.
- 18. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL NEW 2#10, ELECTRICAL SPLICE BOX FOR CONDUCTOR CONNECTION POINT.

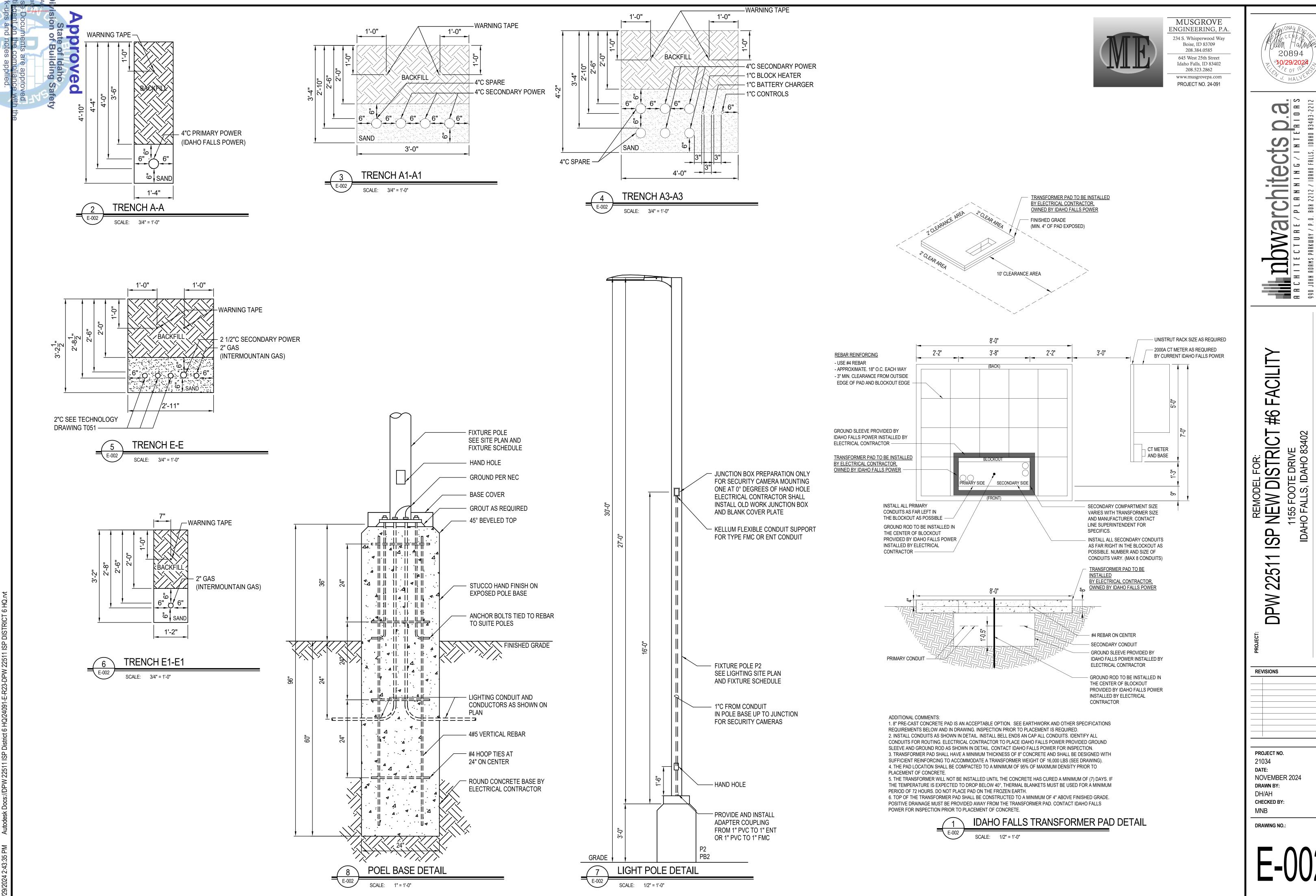


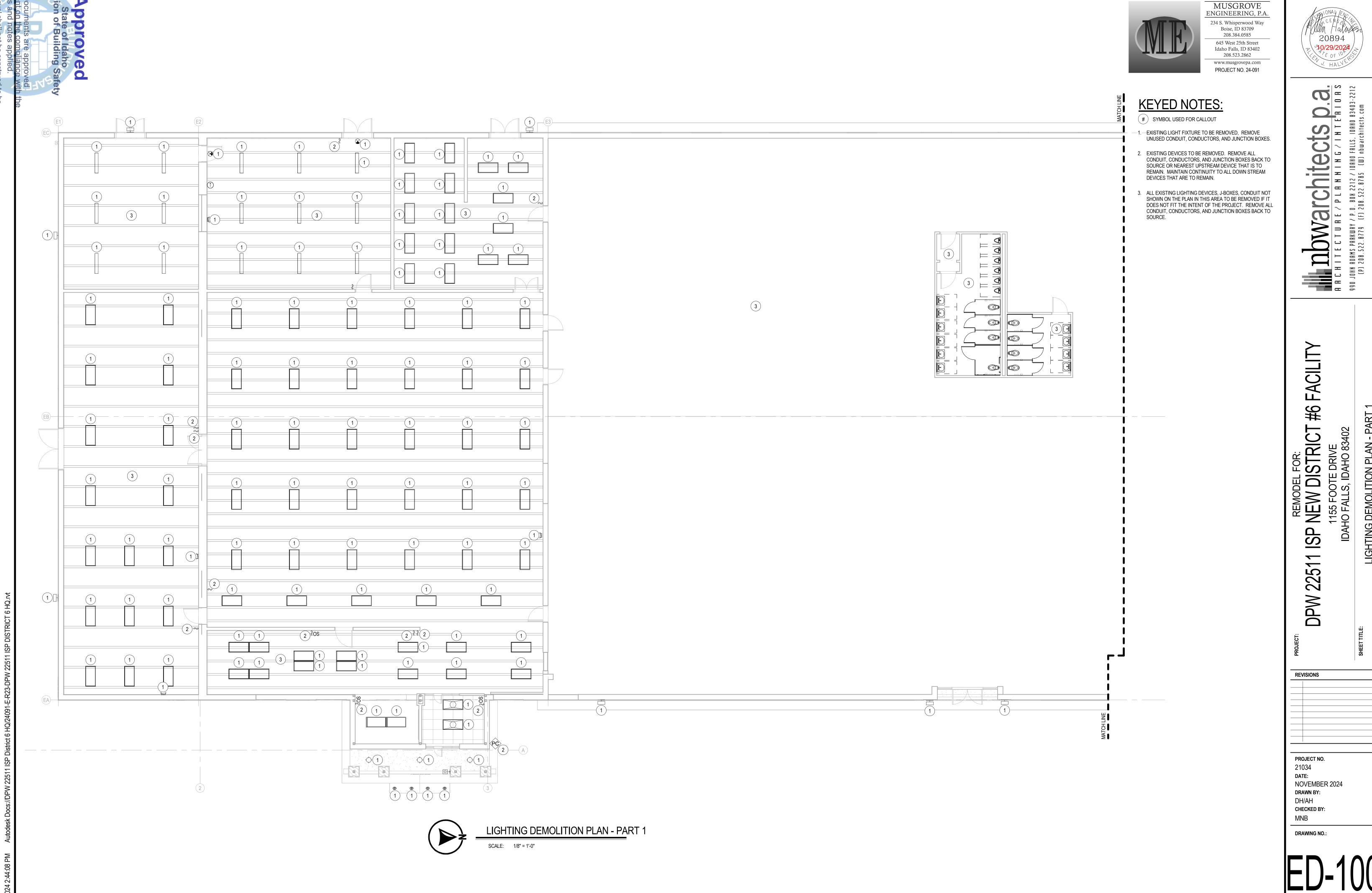
E-002

LOCATIONS

ELECTRICAL SITE PLAN

SCALE: 1" = 30'-0"



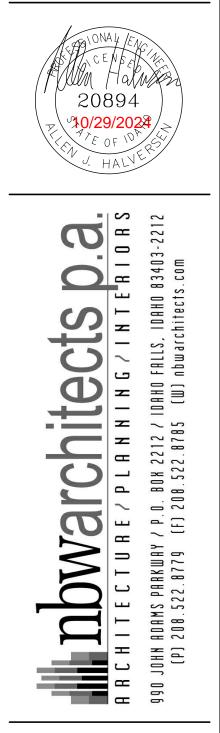


LIGHTING DEMOLITION PLAN

REVISIONS

PROJECT NO. NOVEMBER 2024

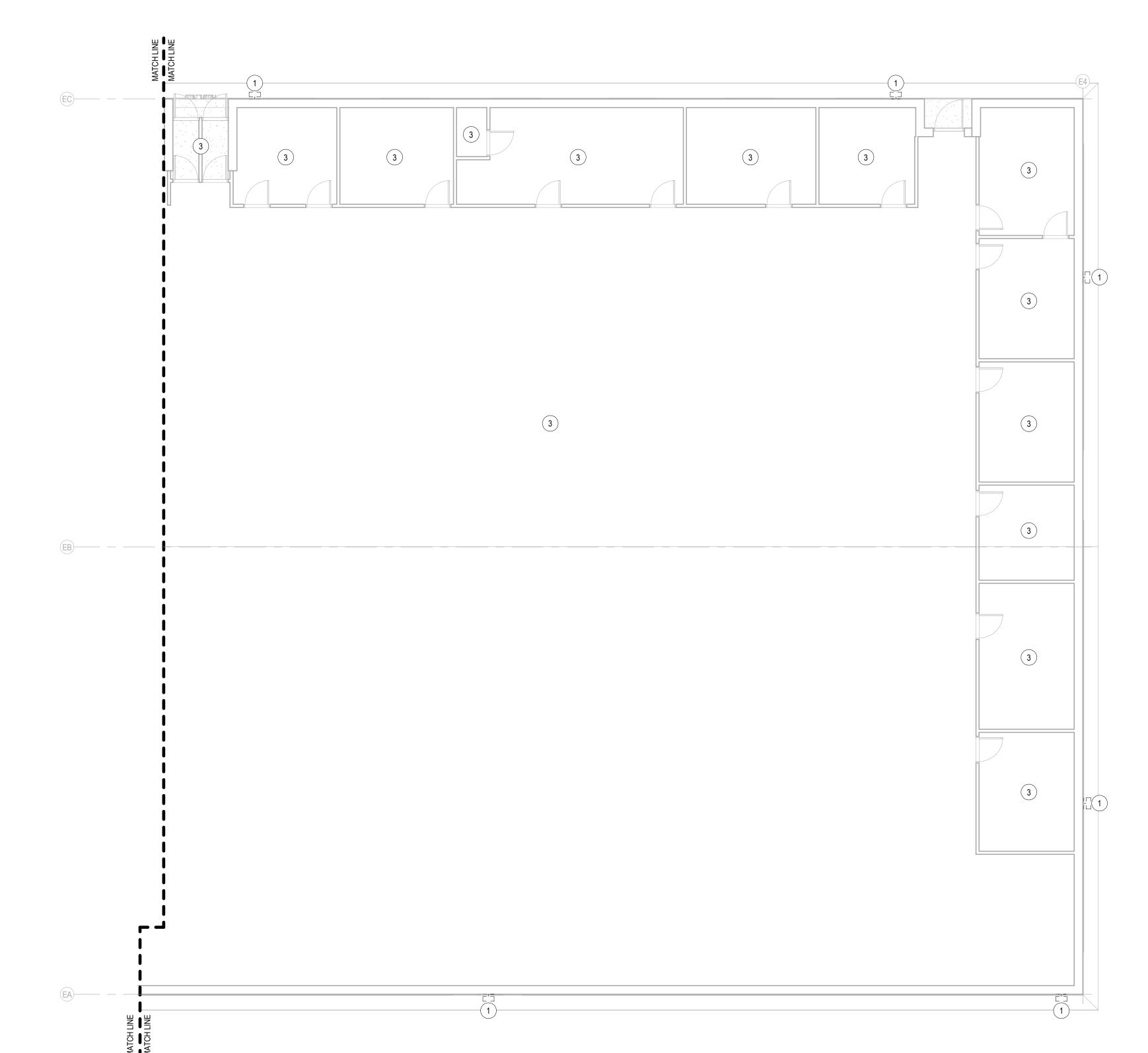
MUSGROVE ENGINEERING, P.A. 234 S. Whisperwood Way Boise, ID 83709 208.384.0585 645 West 25th Street Idaho Falls, ID 83402 208.523.2862 www.musgrovepa.com PROJECT NO. 24-091

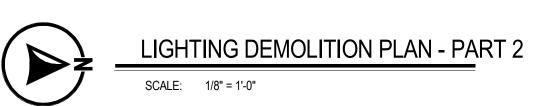


KEYED NOTES:

SYMBOL USED FOR CALLOUT

- EXISTING LIGHT FIXTURE TO BE REMOVED, REMOVE UNUSED CONDUIT, CONDUCTORS, AND JUNCTION BOXES.
- 2. EXISTING DEVICES TO BE REMOVED. REMOVE ALL CONDUIT, CONDUCTORS, AND JUNCTION BOXES BACK TO SOURCE OR NEAREST UPSTREAM DEVICE THAT IS TO REMAIN. MAINTAIN CONTINUITY TO ALL DOWN STREAM DEVICES THAT ARE TO REMAIN.
- ALL EXISTING LIGHTING DEVICES, J-BOXES, CONDUIT NOT SHOWN ON THE PLAN IN THIS AREA TO BE REMOVED IF IT DOES NOT FIT THE INTENT OF THE PROJECT. REMOVE ALL CONDUIT, CONDUCTORS, AND JUNCTION BOXES BACK TO SOURCE.



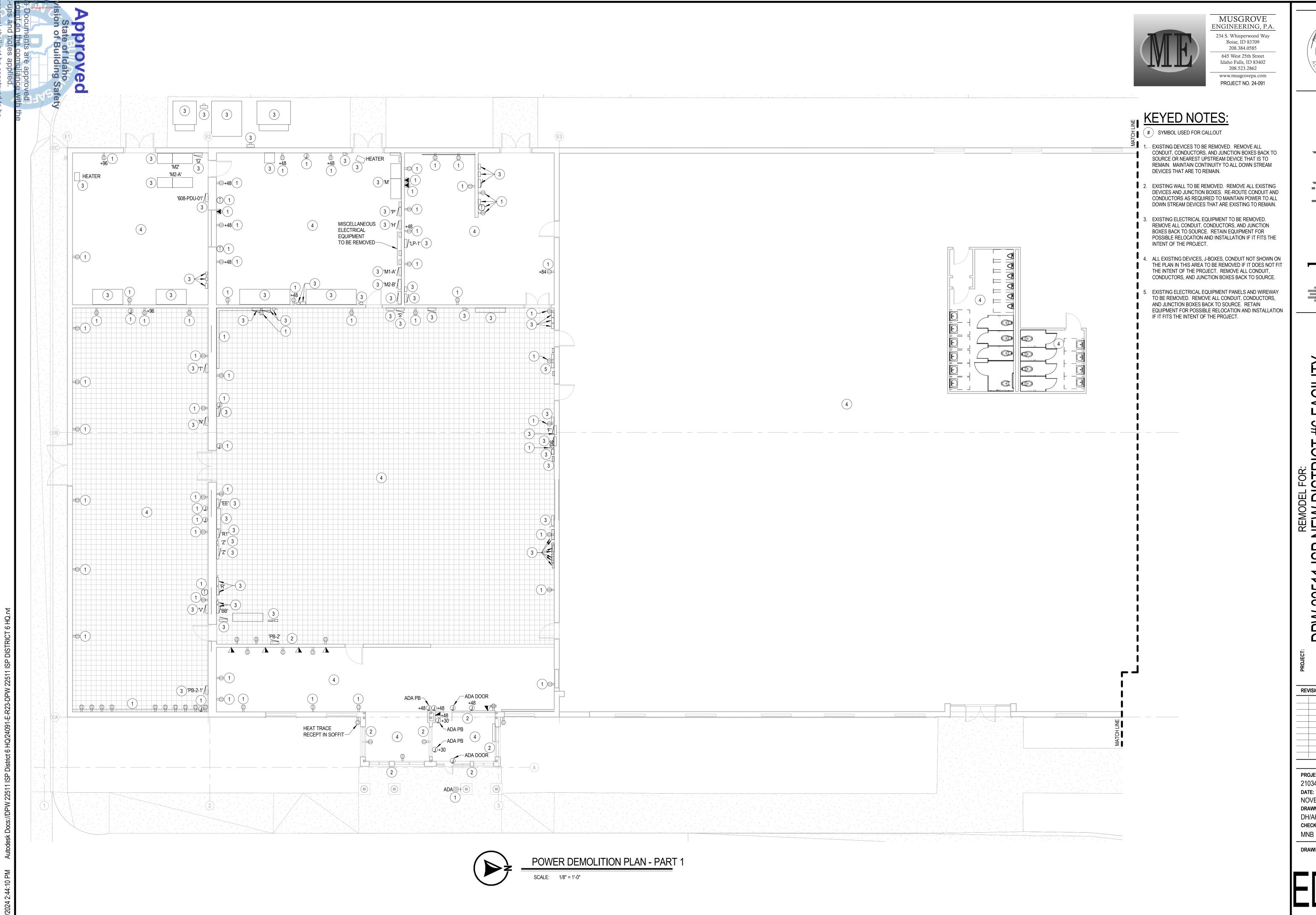


DPW 22511 ISP NEW DISTRICT #6 FACILITY
1155 FOOTE DRIVE
IDAHO FALLS, IDAHO 83402

REVISIONS

DH/AH CHECKED BY:

NOVEMBER 2024



DDWarchitects D.a.

RRCHITECTURE/PLANNING/INTERIORS

990 JOHN ROBRNS PARKWAY / P.O. BON 2212 / IDAHO FALLS, IDAHO B3403-2212

(P) 208.522.8779 (F) 208.522.8785 (W) nbwarchitects.com

#6 FACILITY DPW 22511 ISP NEW DISTRICT #1155 FOOTE DRIVE IDAHO 83402

REVISIONS

PROJECT NO. 21034
DATE:
NOVEMBER 2024
DRAWN BY:

DH/AH CHECKED BY:

MUSGROVE ENGINEERING, P.A. 234 S. Whisperwood Way Boise, ID 83709 208.384.0585 645 West 25th Street Idaho Falls, ID 83402 208.523.2862 www.musgrovepa.com

PROJECT NO. 24-091

(#) SYMBOL USED FOR CALLOUT

- 1. EXISTING DEVICES TO BE REMOVED. REMOVE ALL CONDUIT, CONDUCTORS, AND JUNCTION BOXES BACK TO
- EXISTING WALL TO BE REMOVED. REMOVE ALL EXISTING DEVICES AND JUNCTION BOXES. RE-ROUTE CONDUIT AND
- 4. ALL EXISTING DEVICES, J-BOXES, CONDUIT NOT SHOWN ON THE PLAN IN THIS AREA TO BE REMOVED IF IT DOES NOT FIT THE INTENT OF THE PROJECT. REMOVE ALL CONDUIT, CONDUCTORS, AND JUNCTION BOXES BACK TO SOURCE.

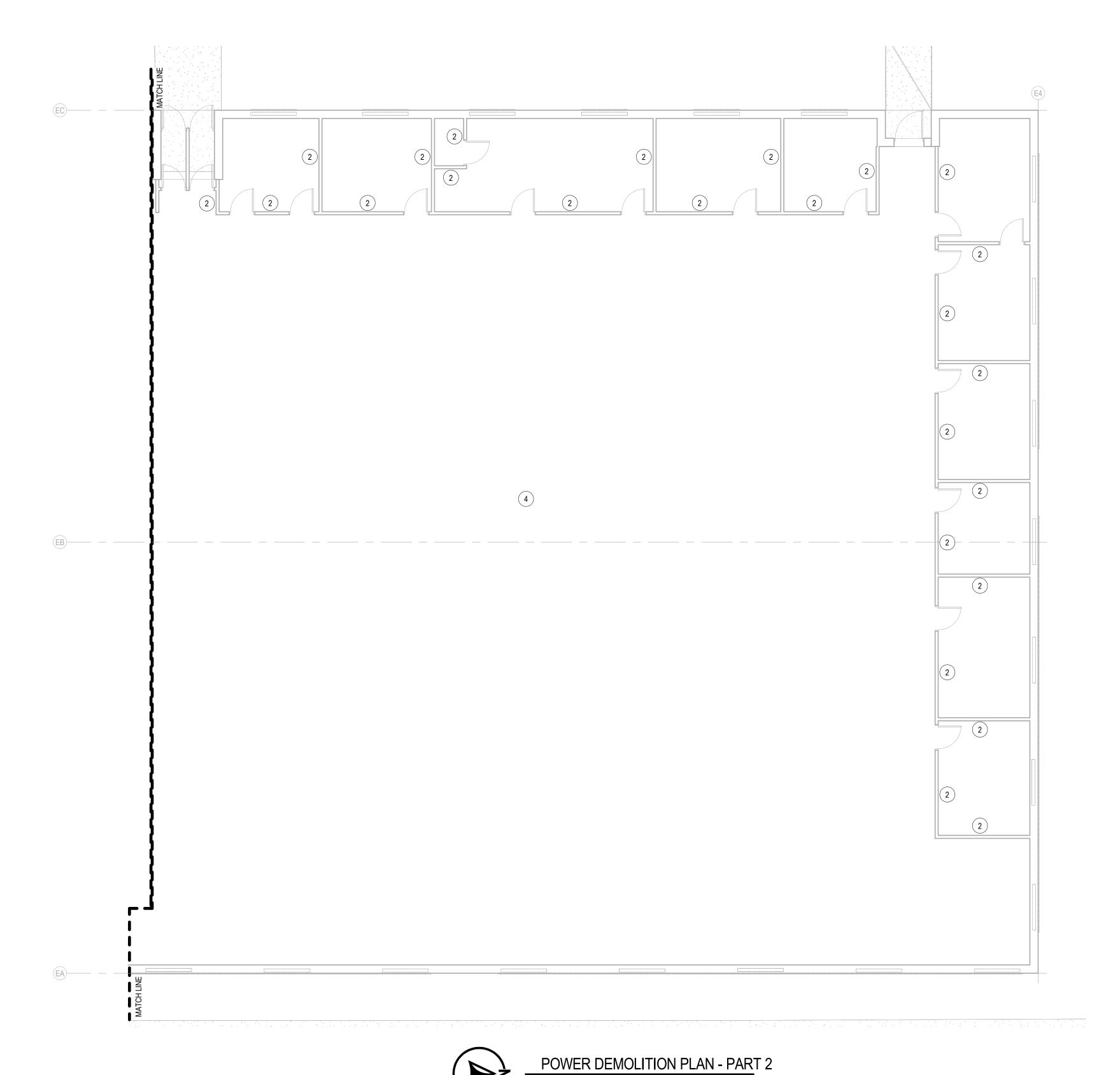


- SOURCE OR NEAREST UPSTREAM DEVICE THAT IS TO REMAIN. MAINTAIN CONTINUITY TO ALL DOWN STREAM DEVICES THAT ARE TO REMAIN.
- CONDUCTORS AS REQUIRED TO MAINTAIN POWER TO ALL DOWN STREAM DEVICES THAT ARE EXISTING TO REMAIN.
- 3. EXISTING ELECTRICAL EQUIPMENT TO BE REMOVED. REMOVE ALL CONDUIT, CONDUCTORS, AND JUNCTION BOXES BACK TO SOURCE. RETAIN EQUIPMENT FOR POSSIBLE RELOCATION AND INSTALLATION IF IT FITS THE INTENT OF THE PROJECT.
- 5. EXISTING ELECTRICAL EQUIPMENT PANELS AND WIREWAY TO BE REMOVED. REMOVE ALL CONDUIT, CONDUCTORS, AND JUNCTION BOXES BACK TO SOURCE. RETAIN EQUIPMENT FOR POSSIBLE RELOCATION AND INSTALLATION IF IT FITS THE INTENT OF THE PROJECT.

DPW 22511 ISP NEW DISTRICT #6 FACILITY
1155 FOOTE DRIVE
IDAHO FALLS, IDAHO 83402

NOVEMBER 2024 CHECKED BY:

DRAWING NO.:



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

INTERVIEW

SECURED WAITING

7 STORAGE

+144

106

INTERVIEW

B1 B1 B1 B1 MONITORING

SERGEANT 109

SERGEANT

STORAGE 160

INVESTIGATIONS

STORAGE

/LIEUTENANT

125

COMM. VEHICLE

SAFETY DIVISION

(8)

1 **OFFICE**127
A1 A1

STORAGE 128

BULK EVIDENCE 140

SERGEANT 124

T.R. 130 C1 C1

CORRIDOR

132

CHANGING

″∐H2E

_П4)—

MECHANICAL

133

CHANGING

/∐H2E

/∐H2E

CHANGING

MUSGROVE ENGINEERING, P.A. 234 S. Whisperwood Way Boise, ID 83709

208.384.0585 645 West 25th Street Idaho Falls, ID 83402 208.523.2862 www.musgrovepa.com PROJECT NO. 24-091

20894 10/29/2024 PE OF 10 C

GENERAL NOTES:

- A. THESE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE; THEREFORE, THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL ELECTRICAL EQUIPMENT AND DEVICE LOCATIONS WITH ARCHITECTURAL, _MECHANICAL, AND PLUMBING DIVISIONS PRIOR TO ROUGH-IN. REFER TO AND COORDINATE WITH ARCHITECTURAL, MECHANICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL WORK THAT IS REQUIRED BY THE CONTRACTOR.
- . ALL CONDUIT AND JUNCTION BOXES ARE TO BE CONCEALED IN NEW WALLS, EXISTING FURRED OUT WALLS AND EXISTING ACCESSIBLE CEILINGS. USE OF SURFACE MOUNTED RACEWAYS MUST BE APPROVED BY THE ARCHITECT FOR EACH LOCATION. WHERE APPROVED UTILIZE WIREMOLD OR APPROVED EQUAL SURFACE MOUNTED RACEWAYS PAINTED TO MATCH SURROUNDING WALLS.

) SYMBOL USED FOR CALLOUT

- INSTALL 0-10V DIMMING CONDUCTORS FROM SWITCH TO ALL LIGHTS CONTROLLED BY THIS SWITCH IN ACCORDANCE WITH MANUFACTURERS INSTALLATION INSTRUCTIONS. VERIFY INSTALLATION REQUIREMENTS WITH SUBMITTALS PRIOR TO INSTALLATION.
- THE ZONE AND LIGHTING CONTROL PANEL.
- CHAIN HUNG LIGHT FIXTURE BELOW STRUCTURE, 10 FEET ABOVE FINISHED FLOOR
- WITH MANUFACTURER'S INSTRUCTIONS.
- OUTPUT SETTING.
- LIGHT FIXTURE IN THIS ROOM TO BE SET AT MEDIUM LUMEN OUTPUT SETTING.

KEYED NOTES:

- LIGHTING CONTROL PANEL LOW VOLTAGE INTERCONNECTION CABLE, SEE DETAIL ON DRAWING E-600.
- LIGHTING ZONE TO BE CONNECTED TO NOTED CIRCUIT AND CONTROLLED VIA LIGHTING CONTROL PANEL, SEE DETAIL ON DRAWING E-600. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL 0-10V DIMMING WIRES BETWEEN ALL LIGHTS IN
- PROVIDE AND INSTALL 18/3C UTP 24 VOLT CABLE BETWEEN POWER PACK AND OCCUPANCY SENSORS IN ACCORDANCE
- DAYLIGHT ZONE. DAYLIGHT RESPONSIVE CONTROLS NOT REQUIRED DUE TO LESS THAN 150 WATTS WITHIN DAYLIGHT ZONE. SEE C405.2.3.1 FOR MORE INFORMATION.
- LIGHT FIXTURE IN THIS ROOM TO BE SET AT LOW LUMEN
- LIGHT FIXTURE IN THIS ROOM TO BE SET AT HIGH LUMEN OUTPUT SETTING.

= RECHITECTUR
990 JOHN RORMS PARKWAY /
[P] 208.522.8779 [

FACILIT

9#

STRICT

NEW DIST

DPW 22511 ISP

DRIVE AHO 83402 1155 FOOTE I IDAHO FALLS, IDA

REVISIONS

PROJECT NO. 21034 DATE: NOVEMBER 2024 DRAWN BY: DH/AH CHECKED BY:

DRAWING NO.:



A1 LIEUTENANT 8 115

A1 OS3

A1 OS3

BRIEFING

CAPTAIN

SERGEANT

PATROL 120

PROCESSING

8 141

EVIDENCE TECH 142

STORAGE

BREAK ROOM

SERGEANT

SERGEANT 121

MUSGROVE ENGINEERING, P.A.

234 S. Whisperwood Way Boise, ID 83709 208.384.0585 645 West 25th Street Idaho Falls, ID 83402 208.523.2862 www.musgrovepa.com

GENERAL NOTES:

- A. THESE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE; THEREFORE, THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL ELECTRICAL EQUIPMENT AND DEVICE LOCATIONS WITH ARCHITECTURAL, MECHANICAL, AND PLUMBING DIVISIONS PRIOR TO ROUGH-IN. REFER TO AND COORDINATE WITH ARCHITECTURAL, MECHANICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL WORK THAT IS REQUIRED BY THE CONTRACTOR.
- B. ALL CONDUIT AND JUNCTION BOXES ARE TO BE CONCEALED IN NEW WALLS, EXISTING FURRED OUT WALLS AND EXISTING ACCESSIBLE CEILINGS. USE OF SURFACE MOUNTED RACEWAYS MUST BE APPROVED BY THE ARCHITECT FOR EACH LOCATION. WHERE APPROVED UTILIZE WIREMOLD OR APPROVED EQUAL SURFACE MOUNTED RACEWAYS PAINTED TO MATCH SURROUNDING WALLS.

- 1. INSTALL 0-10V DIMMING CONDUCTORS FROM SWITCH TO ALL LIGHTS CONTROLLED BY THIS SWITCH IN ACCORDANCE WITH MANUFACTURERS INSTALLATION INSTRUCTIONS. VERIFY INSTALLATION REQUIREMENTS WITH SUBMITTALS PRIOR TO INSTALLATION.
- 2. DAYLIGHT ZONE. DAYLIGHT RESPONSIVE CONTROLS NOT ZONE. SEE C405.2.3.1 FOR MORE INFORMATION.
- 4. CHAIN HUNG LIGHT FIXTURE BELOW STRUCTURE, 10 FEET

KEYED NOTES:

(#) SYMBOL USED FOR CALLOUT

- REQUIRED DUE TO LESS THAN 150 WATTS WITHIN DAYLIGHT
- 3. ALL H3 AND H3E LIGHT FIXTURES IN THIS STORAGE SPACE WILL HAVE A BUILT-IN OCCUPANCY SENSOR. SEE FIXTURE SCHEDULE ON DRAWING E-600.
- ABOVE FINISHED FLOOR

PROJECT NO. 24-091

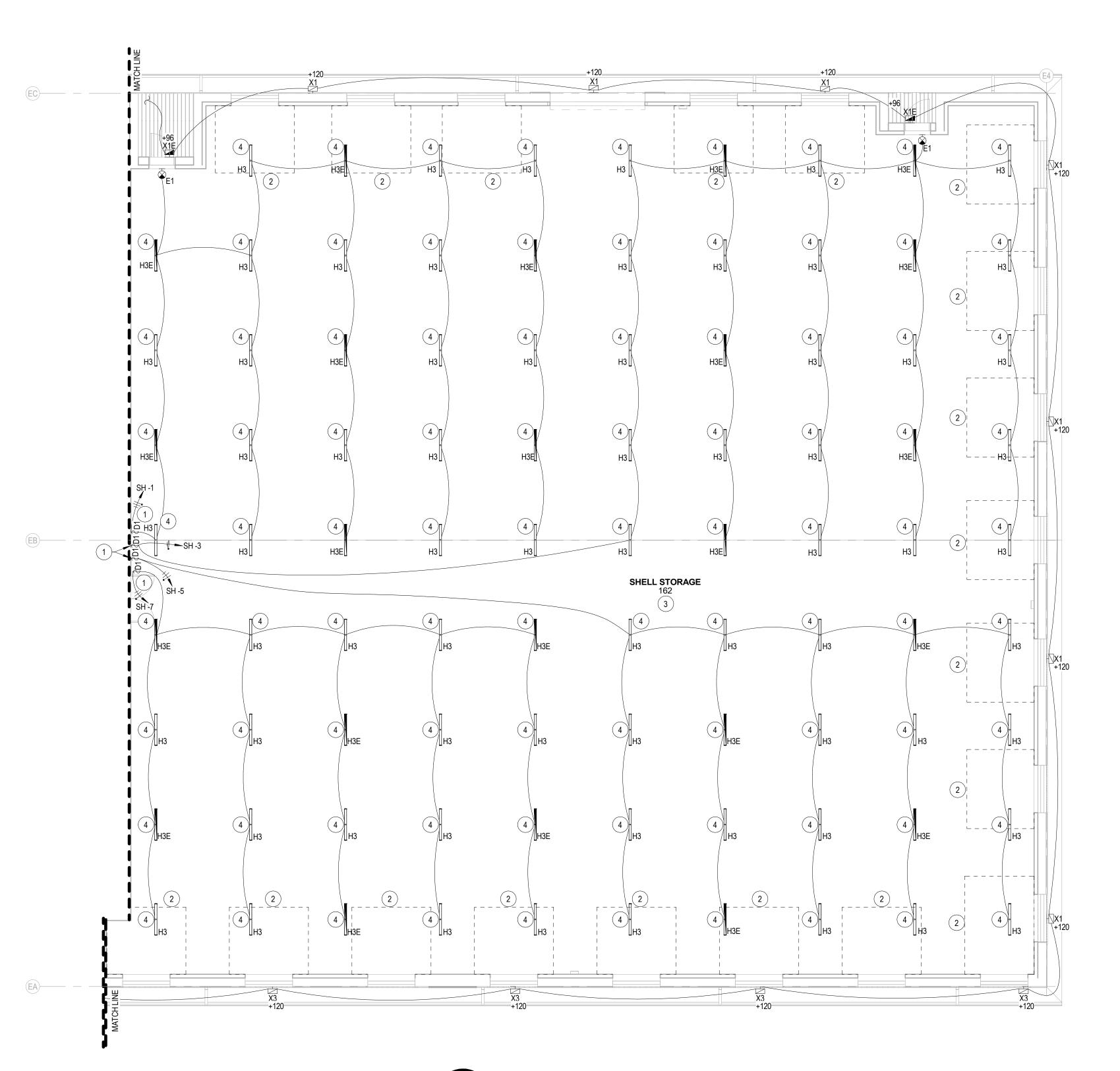
FACILIT 9# DPW 22511 ISP NEW DISTRICT #

1155 FOOTE DRIVE
IDAHO FALLS, IDAHO 83402

REVISIONS

PROJECT NO. 21034 DATE: NOVEMBER 2024 DRAWN BY: DH/AH CHECKED BY:

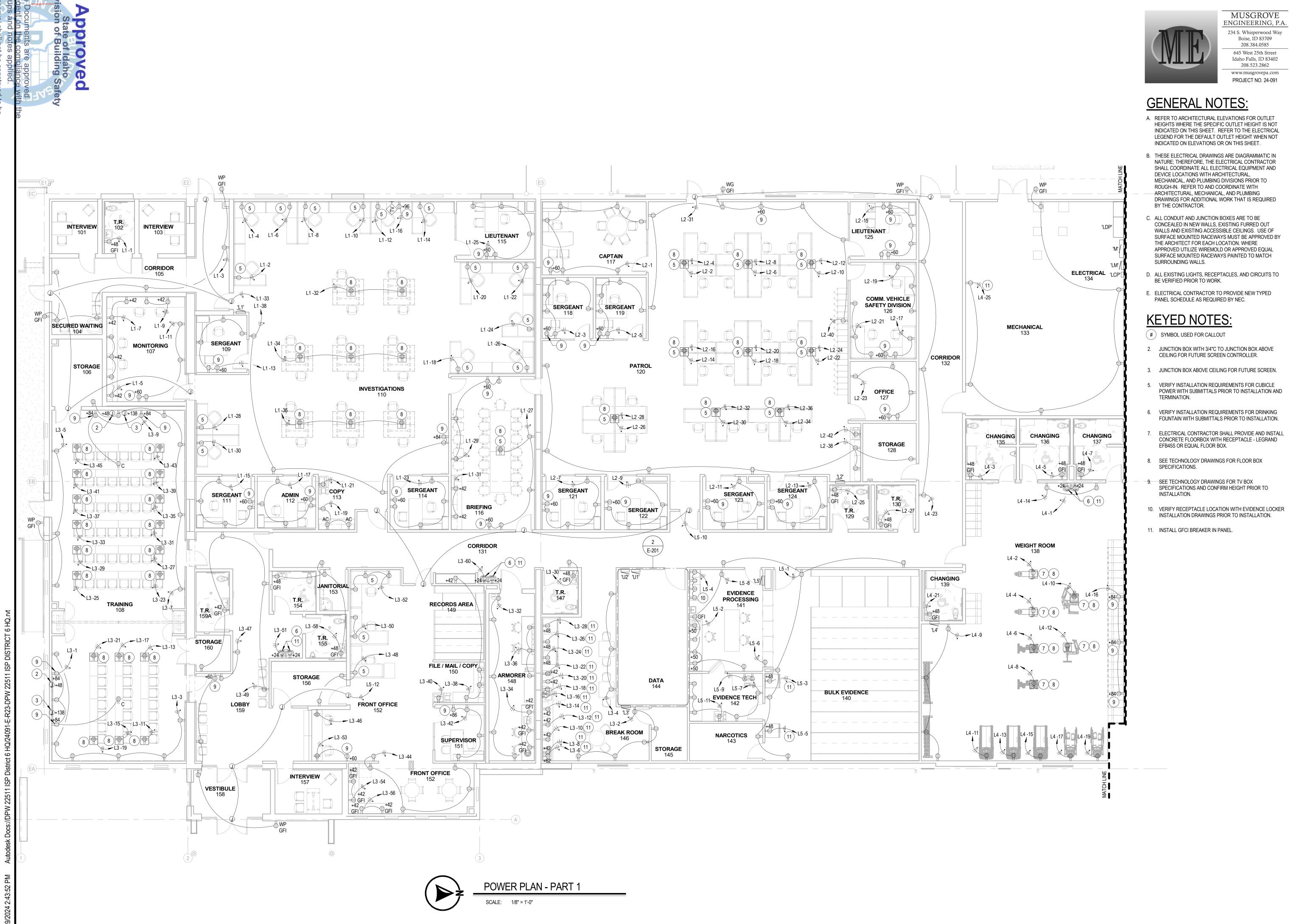
DRAWING NO.:





LIGHTING PLAN - PART 2

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



FACILITY 9# NEW DISTRICT 3 SP SP DPW 2251

1155 FOOTE DRIVE IDAHO FALLS, IDAHO 83402

REVISIONS

PROJECT NO. 21034 DATE:

NOVEMBER 2024 DRAWN BY: DH/AH CHECKED BY:

MUSGROVE ENGINEERING, P.A. Boise, ID 83709

234 S. Whisperwood Way 208.384.0585 645 West 25th Street Idaho Falls, ID 83402 208.523.2862 www.musgrovepa.com PROJECT NO. 24-091

FACILITY

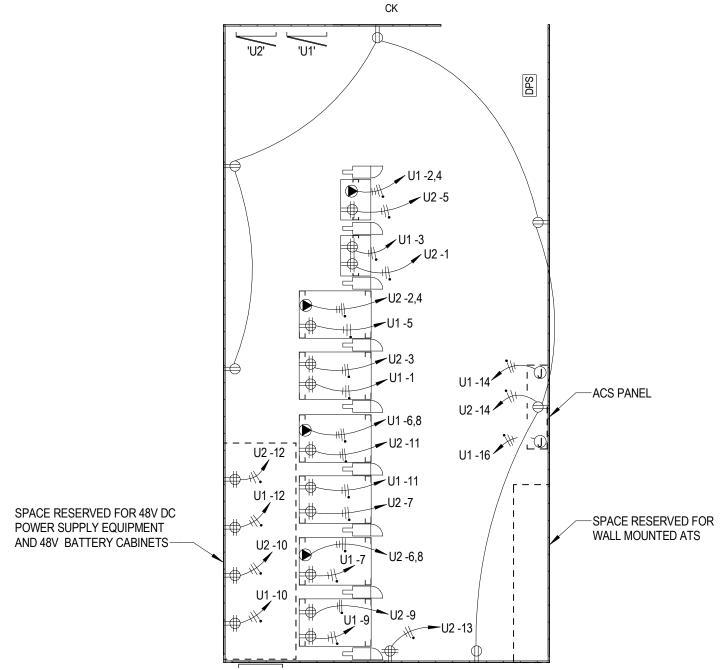
9#

NEW DISTRICT #

DPW 22511 ISP

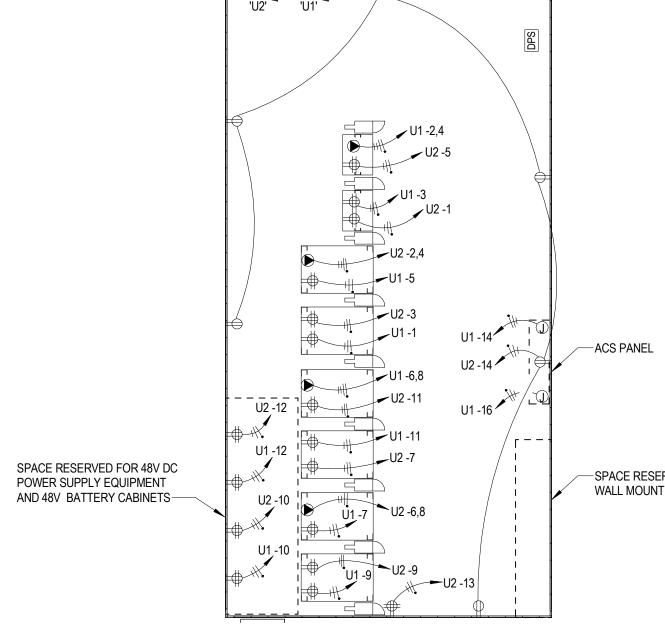
GENERAL NOTES:

- A. REFER TO ARCHITECTURAL ELEVATIONS FOR OUTLET HEIGHTS WHERE THE SPECIFIC OUTLET HEIGHT IS NOT INDICATED ON THIS SHEET. REFER TO THE ELECTRICAL LEGEND FOR THE DEFAULT OUTLET HEIGHT WHEN NOT INDICATED ON ELEVATIONS OR ON THIS SHEET.
- B. THESE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE; THEREFORE, THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL ELECTRICAL EQUIPMENT AND DEVICE LOCATIONS WITH ARCHITECTURAL, MECHANICAL, AND PLUMBING DIVISIONS PRIOR TO ROUGH-IN. REFER TO AND COORDINATE WITH ARCHITECTURAL, MECHANICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL WORK THAT IS REQUIRED BY THE CONTRACTOR.
- C. ALL CONDUIT AND JUNCTION BOXES ARE TO BE CONCEALED IN NEW WALLS, EXISTING FURRED OUT WALLS AND EXISTING ACCESSIBLE CEILINGS. USE OF SURFACE MOUNTED RACEWAYS MUST BE APPROVED BY THE ARCHITECT FOR EACH LOCATION. WHERE APPROVED UTILIZE WIREMOLD OR APPROVED EQUAL SURFACE MOUNTED RACEWAYS PAINTED TO MATCH SURROUNDING WALLS.
- D. ALL EXISTING LIGHTS, RECEPTACLES, AND CIRCUITS TO BE VERIFIED PRIOR TO WORK.
- E. ELECTRICAL CONTRACTOR TO PROVIDE NEW TYPED PANEL SCHEDULE AS REQUIRED BY NEC.







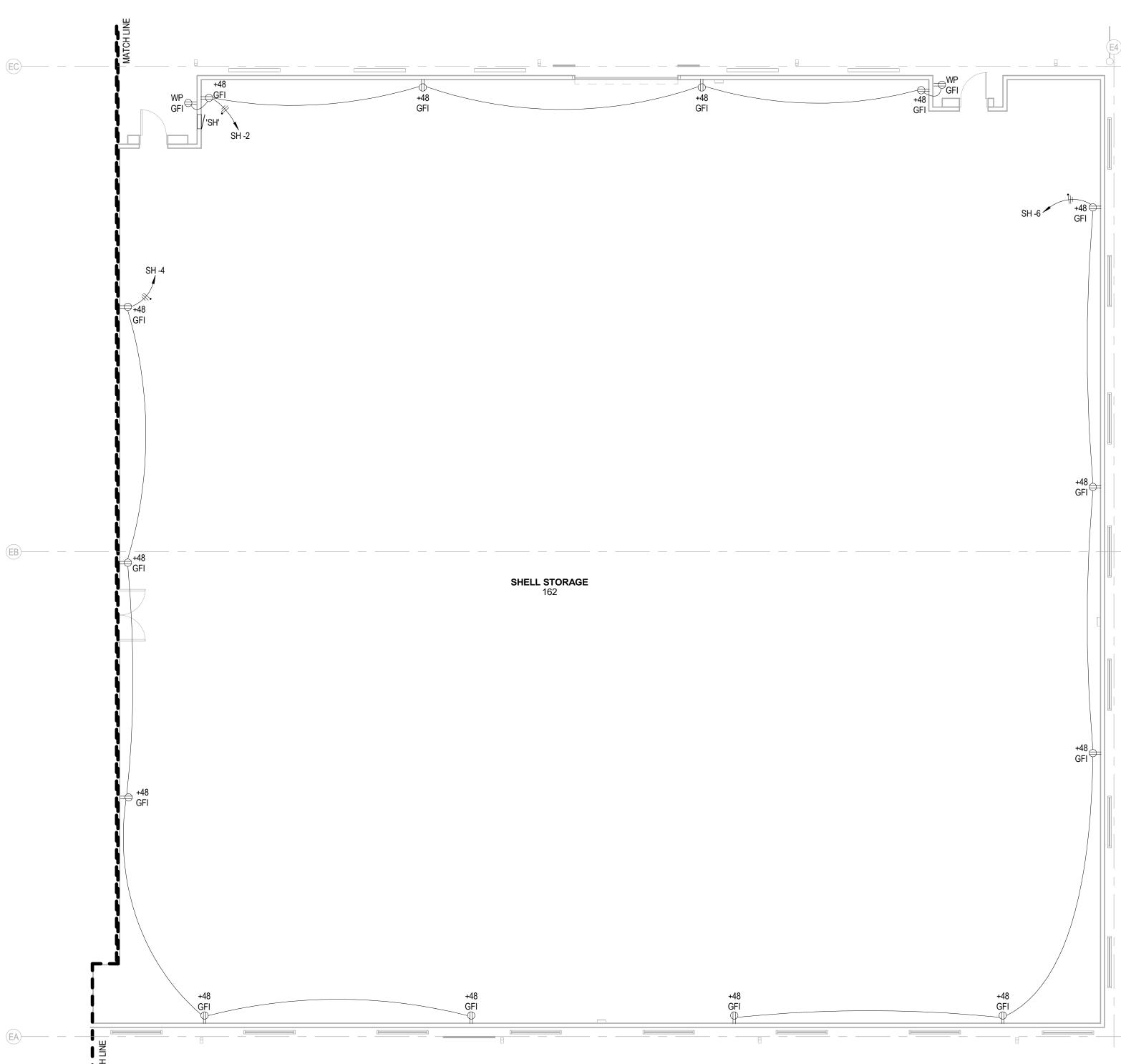




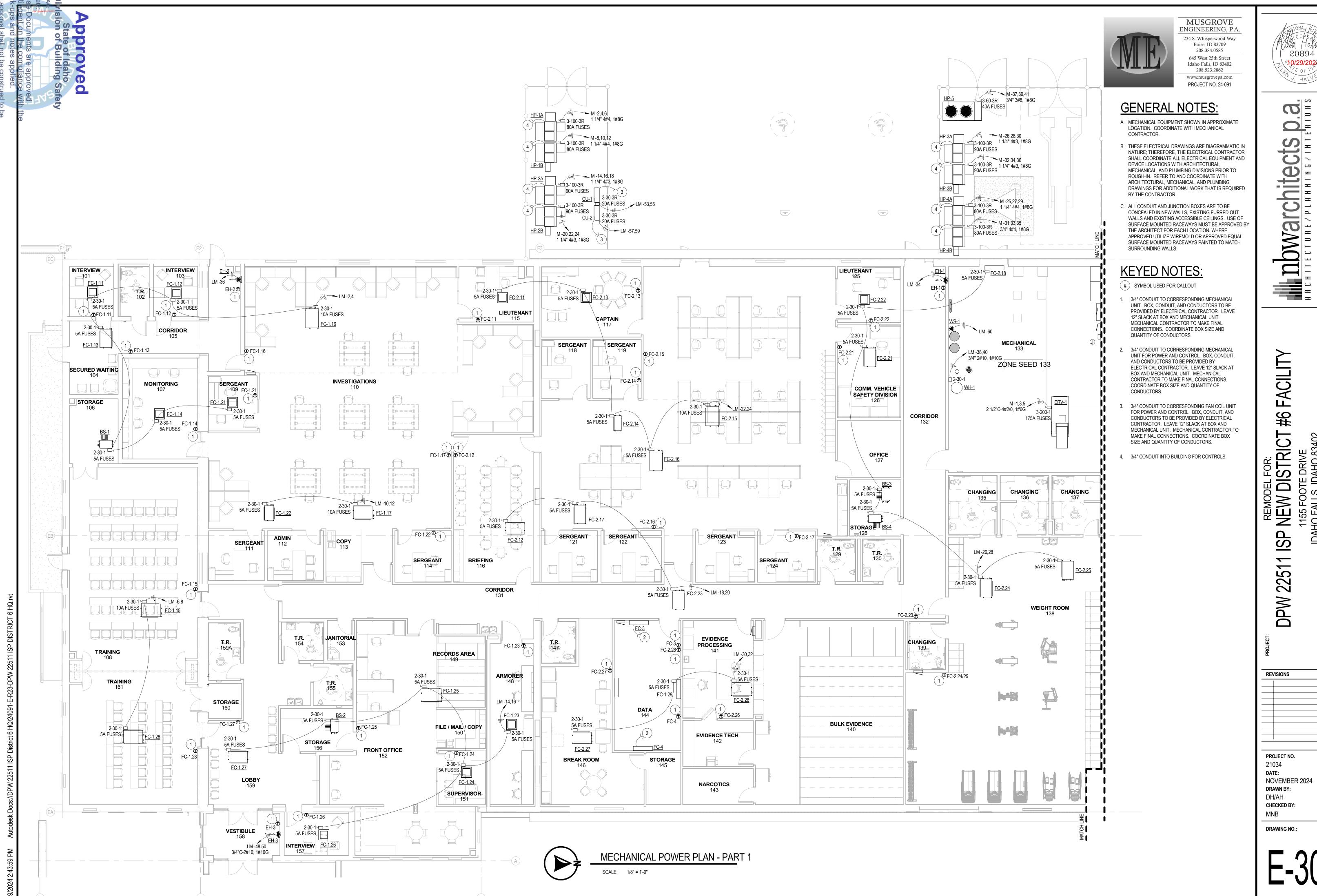
REVISIONS

NOVEMBER 2024 CHECKED BY:

DRAWING NO.:



POWER PLAN - PART 2



20894 10/29/2024 PE OF 10 P

9# DPW 22511 ISP NEW DISTRICT # 1155 FOOTE DRIVE IDAHO 83402

PROJECT NO.

NOVEMBER 2024 DRAWN BY: DH/AH CHECKED BY:

MUSGROVE ENGINEERING, P.A.

234 S. Whisperwood Way Boise, ID 83709 208.384.0585 645 West 25th Street Idaho Falls, ID 83402 208.523.2862 www.musgrovepa.com PROJECT NO. 24-091

GENERAL NOTES:

- A. MECHANICAL EQUIPMENT SHOWN IN APPROXIMATE LOCATION. COORDINATE WITH MECHANICAL CONTRACTOR. B. THESE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE; THEREFORE, THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL ELECTRICAL EQUIPMENT AND DEVICE LOCATIONS WITH ARCHITECTURAL, MECHANICAL, AND PLUMBING DIVISIONS PRIOR TO ROUGH-IN. REFER TO AND COORDINATE WITH ARCHITECTURAL, MECHANICAL, AND PLUMBING
- BY THE CONTRACTOR. C. ALL CONDUIT AND JUNCTION BOXES ARE TO BE CONCEALED IN NEW WALLS, EXISTING FURRED OUT WALLS AND EXISTING ACCESSIBLE CEILINGS. USE OF SURFACE MOUNTED RACEWAYS MUST BE APPROVED BY THE ARCHITECT FOR EACH LOCATION. WHERE APPROVED UTILIZE WIREMOLD OR APPROVED EQUAL SURFACE MOUNTED RACEWAYS PAINTED TO MATCH SURROUNDING WALLS.

DRAWINGS FOR ADDITIONAL WORK THAT IS REQUIRED

KEYED NOTES:

- (#) SYMBOL USED FOR CALLOUT
- 1. 3/4" CONDUIT TO CORRESPONDING MECHANICAL UNIT. BOX, CONDUIT, AND CONDUCTORS TO BE PROVIDED BY ELECTRICAL CONTRACTOR. LEAVE 12" SLACK AT BOX AND MECHANICAL UNIT. MECHANICAL CONTRACTOR TO MAKE FINAL CONNECTIONS. COORDINATE BOX SIZE AND QUANTITY OF CONDUCTORS.
- 2. 3/4" CONDUIT TO CORRESPONDING MECHANICAL UNIT FOR POWER AND CONTROL. BOX, CONDUIT, AND CONDUCTORS TO BE PROVIDED BY ELECTRICAL CONTRACTOR. LEAVE 12" SLACK AT BOX AND MECHANICAL UNIT. MECHANICAL CONTRACTOR TO MAKE FINAL CONNECTIONS. COORDINATE BOX SIZE AND QUANTITY OF CONDUCTORS.
- 3. 3/4" CONDUIT TO CORRESPONDING FAN COIL UNIT FOR POWER AND CONTROL. BOX, CONDUIT, AND CONDUCTORS TO BE PROVIDED BY ELECTRICAL CONTRACTOR. LEAVE 12" SLACK AT BOX AND MECHANICAL UNIT. MECHANICAL CONTRACTOR TO MAKE FINAL CONNECTIONS. COORDINATE BOX SIZE AND QUANTITY OF CONDUCTORS.
- 4. 3/4" CONDUIT INTO BUILDING FOR CONTROLS.



All DWarchitects CARCHITECT CARCHITECT CARCHITECT OF THE ARCHITECTURE A PLANNING AINTER

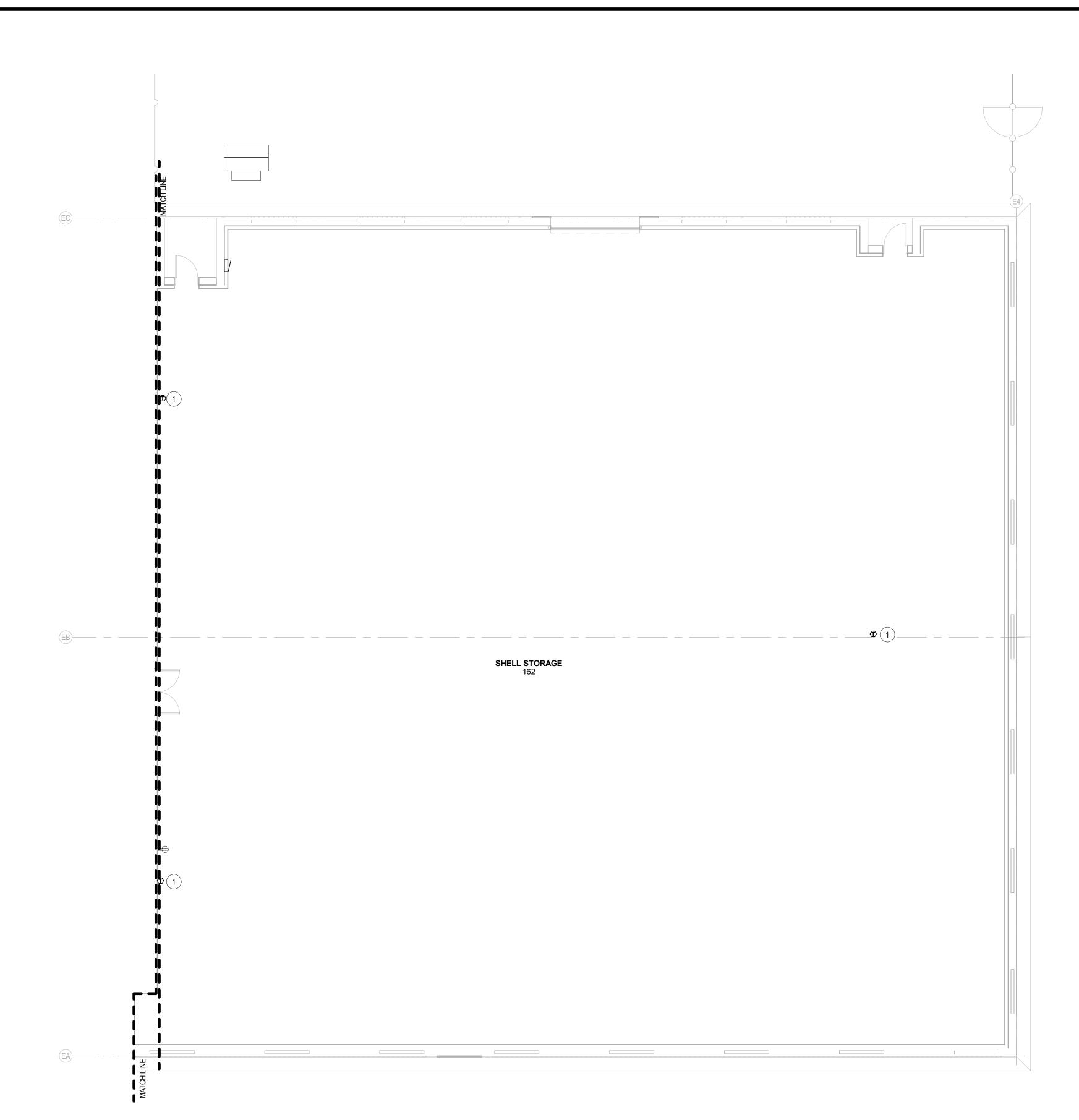
FACILIT

9#

DPW 22511 ISP NEW DISTRICT

NOVEMBER 2024 CHECKED BY:

DRAWING NO.:





MECHANICAL POWER PLAN - PART 2

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

LM -41,43 3/4"C-3#10, 1#10G

HEAT TRACE
IN GUTTER
4

8 <u>EF-1</u>

HEAT TRACE 4

HEAT TRACE
IN GUTTER

DOWN SPOUT-

-DOWN SPOUT

DDWarchitects | R C H I T E C T U R E / P L R N N I N G / I N T E | 990 JOHN RORMS PRRKWRY / P.O. BOX 2212 / IORHO FALLS, IORHO 8 (P) 208.522.8779 (F) 208.522.8785 (W) nbwarchitects.

FACILITY 9# DPW 22511 ISP NEW DISTRICT #

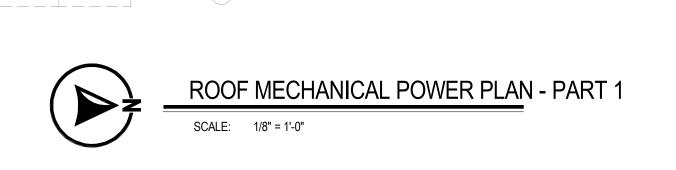
1155 FOOTE DRIVE
IDAHO FALLS, IDAHO 83402

VER PLAN

REVISIONS

PROJECT NO. 21034 DATE: NOVEMBER 2024 DH/AH CHECKED BY:

DRAWING NO.:



8 <u>EF-2</u>

LM -49,51 3/4"C-3#10, 1#10G

1 2

1 2 6

MUSGROVE ENGINEERING, P.A. 234 S. Whisperwood Way Boise, ID 83709 208.384.0585 645 West 25th Street Idaho Falls, ID 83402 208.523.2862

- B. THESE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE; THEREFORE, THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL ELECTRICAL EQUIPMENT AND DEVICE LOCATIONS WITH ARCHITECTURAL, MECHANICAL, AND PLUMBING DIVISIONS PRIOR TO ROUGH-IN. REFER TO AND COORDINATE WITH ARCHITECTURAL, MECHANICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL WORK THAT IS REQUIRED BY THE CONTRACTOR.
- C. ALL CONDUIT AND JUNCTION BOXES ARE TO BE CONCEALED IN NEW WALLS, EXISTING FURRED OUT WALLS AND EXISTING ACCESSIBLE CEILINGS. USE OF SURFACE MOUNTED RACEWAYS MUST BE APPROVED BY THE ARCHITECT FOR EACH LOCATION. WHERE APPROVED UTILIZE WIREMOLD OR APPROVED EQUAL SURFACE MOUNTED RACEWAYS PAINTED TO MATCH SURROUNDING WALLS.

KEYED NOTES:

- (#) SYMBOL USED FOR CALLOUT
- GM-2X OR EQUAL. RE: DETAILS SHEET E-500.
- 2. POWER CONNECTION KIT, NVENT RAYCHEM RAYCLIC OR EQUAL.
- 3. 3/4"C-2#10 CU, 1#10G FOR HEAT TRACE BRANCH
- 6. EXTEND HEATING CABLE 12 INCHES PAST BOTTOM
- OF DOWNSPOUT.
- 7. 3/4" CONDUIT INTO BUILDING FOR CONTROLS.
- MECHANICAL DRAWINGS FOR INSTALLATION AND OPERATIONS REQUIREMENT.

GENERAL NOTES:

- A. MECHANICAL EQUIPMENT SHOWN IN APPROXIMATE LOCATION. COORDINATE WITH MECHANICAL CONTRACTOR.

- 1. SELF REGULATING HEAT TRACE NVENT RAYCHEM

- 4. NVENT RAYCHEM SELF-REGULATING DE-ICING

HEATING CABLE GM-2XT OR EQUAL.

- 5. INSTALL HEAT TRACE THERMOSTAT ON WALL
- UNDER EAVE NVENT RAYCHEM AMC-1A OR EQUAL.
- 8. EXHAUST FAN CONTROLLED THROUGH BATTERY MANAGEMENT SYSTEM (BMS), COORDINATE WITH

ROOF MECHANICAL POWER PLAN - PART 2

HEAT TRACE
IN GUTTER

HEAT TRACE
IN GUTTER

M -19,21,23 3/4"C-4#8, 1#10G

3-60-3R 45A FUSES 4

—DOWN SPOUT

3-60-3R 45A FUSES —

M -7,9,11 3/4"C-4#8, 1#10G

M -13,15,17 A 3/4"C-4#8, 1#10G

HEAT TRACE
IN GUTTER

HEAT TRACE
IN GUTTER
4

HEAT TRACE
IN GUTTER

─DOWN SPOUT

DOWN SPOUT HEAT TRACE 4

HEAT TRACE 4

(3)

HEAT TRACE 4
IN GUTTER

-DOWN SPOUT

-DOWN SPOUT

3/4"C 3#10, 1#10G

www.musgrovepa.com PROJECT NO. 24-091

FACILITY

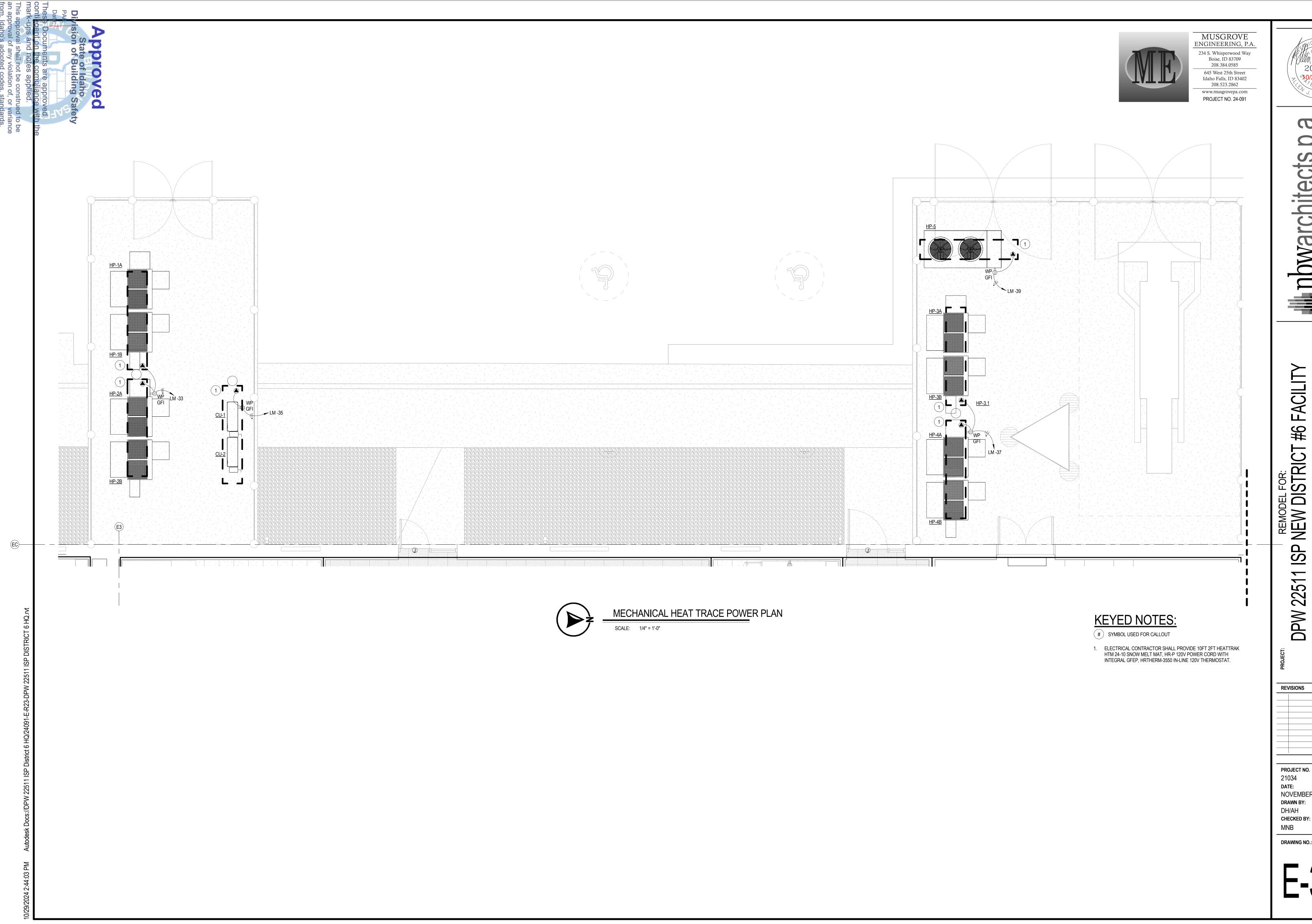
9#

DPW 22511 ISP NEW DISTRICT #

1155 FOOTE DRIVE
IDAHO FALLS, IDAHO 83402

RE\	/ISIONS
	1

PROJECT NO. NOVEMBER 2024 DH/AH CHECKED BY:



ISP NEW DISTRICT #6 FACILITY
1155 FOOTE DRIVE
IDAHO FALLS, IDAHO 83402 <u>S</u> DPW 22511 |

PROJECT NO. 21034

NOVEMBER 2024 DRAWN BY: DH/AH

(N) UPS

PANEL U1

3,220

(N) UPS

PANEL U2

3,220

<u>SPARE</u>

(N) PANEL 'ALA'

'ALB'

9,805

10,519

<u>SPARE</u>

<u>SPARE</u>

<u>SPARE</u>

MUSGROVE ENGINEERING, P.A. 234 S. Whisperwood Way Boise, ID 83709 208.384.0585 645 West 25th Street Idaho Falls, ID 83402 208.523.2862 www.musgrovepa.com PROJECT NO. 24-091

20894

FACILIT

9#

DRIVE AHO 834

1155 FOOTE DIDAHO FALLS, IDA

NEW DISTRICT

<u>S</u>

DPW 2251

REVISIONS

PROJECT NO.

NOVEMBER 2024

21034

DRAWN BY: DH/AH CHECKED BY:

DATE:

MNB

DRAWING NO.:

GENERAL NOTES:

3P

(N) 3-1"C CABLES FOR

GENERATOR START CABLES

VERIFY TYPE AND QUANTITY

INSTALLATION DOCUMENTS -

WITH A MANUFACTURER

DOCKING STATION

RE:GROUNDING

GENERATOR REMOTE ANNUNCIATE PANEL

- CONDUIT, CONDUCTORS AND AIC CALCULATIONS FOR ALL SERVICE, PANEL AND EQUIPMENT FEEDERS INDICATED ON THE ONE-LINE HAVE BEEN SIZED BASED ON COPPER. THE CONTRACTOR MAY USE COMPRESSED ALUMINUM CONDUCTORS FOR THESE FEEDERS PROVIDING THE CONDUIT, CONDUCTOR SIZES AND AIC CALCULATIONS ARE ADJUSTED AS REQUIRED TO MEET ALL NATIONAL ELECTRICAL CODE REQUIREMENTS.
- B. FURNISH AND INSTALL ENGRAVED LABEL ON THE FRONT OF THE MAIN SERVICE EQUIPMENT NOTING THE AVAILABLE FAULT CURRENT VALUE SHOWN.
- C. A COORDINATION STUDY SHALL BE PERFORMED ON THE GROUND FAULT PROTECTION SYSTEM AND THE GROUND FAULT PROTECTION SYSTEM SHALL BE PERFORMANCE TESTED TO VERIFY PROPER OPERATION AS REQUIRED BY NEC 230.95 AT A MINIMUM. REFER TO SPECIFICATIONS FOR ADDITIONAL STUDY AND TESTING REQUIREMENTS. COORDINATION STUDY MAY BE PREFORMED BY MANUFACTURE OR CONTACT MUSGROVE ENGINEERING FOR PROPOSED COST.

KEYED NOTES:

(#) SYMBOL USED FOR NOTE CALLOUT.

PROVIDE AND INSTALL SQUARE D MICROTUSEAL. INSTALL AFTER BREAKER IS

-(N) 2000A S.E. RATED AUTOMATIC TRANSFER SWITCH

- ADJUSTED TO THE CORRECT SETTINGS.
- PROVIDE AND INSTALL SQUARE D MAINTENANCE MODE KIT LV429658 PROVIDE (N) SQUARE D MH32BE PANELBOARD ENCLOSURE.
- PROVIDE (N) NC32(X) PANELBOARD COVER. VERIFY FLUSH/SURFACE MOUNT WITH

ASCO 7000 SERIES OR EQUAL

BY ELECTRICAL CONTRACTOR

- PANEL SCHEDULE. PROVIDE (N) SQUARE D MH38BE PANELBOARD ENCLOSURE.
- PROVIDE (N) NC38(X) PANELBOARD COVER. VERIFY FLUSH/SURFACE MOUNT WITH
- PROVIDE (N) SQUARE D MH56BE PANELBOARD ENCLOSURE.
- PROVIDE (N) NC56V(X) PANELBOARD COVER. VERIFY FLUSH/SURFACE MOUNT WITH PANEL SCHEDULE.

SINGLE LINE DIAGRAM

Switchboard: LDP (EXISTING, FORMERLY PANEL MD)

Location: P28 Supply From: UTILITY Mounting: SURFACE Enclosure: TYPE 1

Volts: 120/208 Wye Phases: 3 Wires: 4

A.I.C. Rating: 65K Mains Type: CB Mains Rating: 2000 A MCB Rating: 2000A

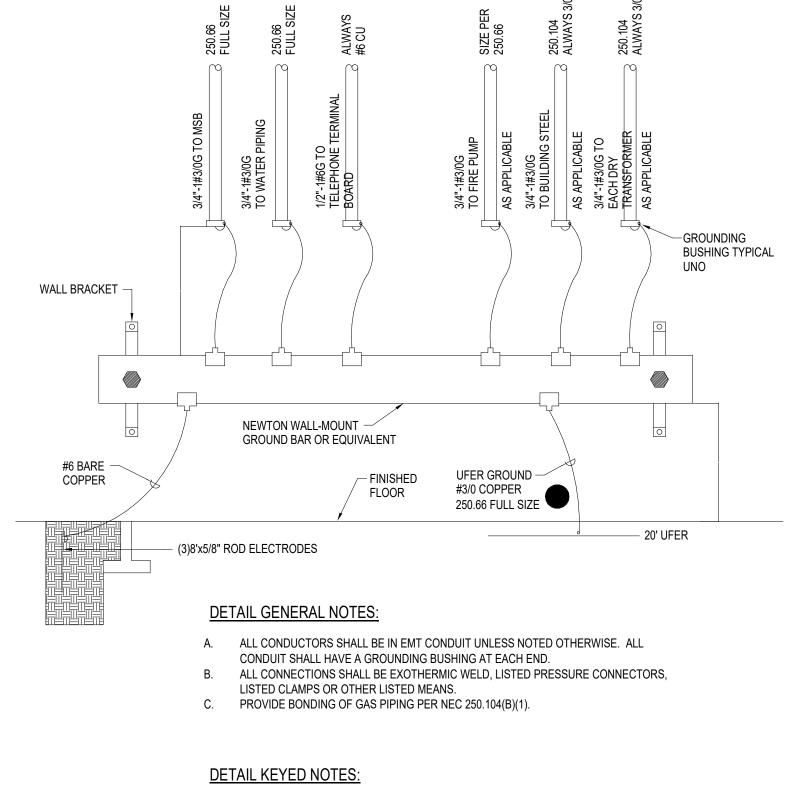
Total Amps: 1418 A

Notes:

CKT	Circuit Description	# of Poles	Frame Size	Trip Rating	Load	Remarks
1	PANEL L1	3	225 A	225 A	18710 VA	
2	Spare	3	225 A	150 A	0 VA	
3	PANEL L2	3	225 A	225 A	20840 VA	
4	Spare	3	100 A	30 A	0 VA	
5	PANEL U1	3	100 A	70 A	11080 VA	
6	PANEL U2	3	100 A	70 A	11520 VA	
7	PANEL L3	3	225 A	225 A	30870 VA	
8	PANEL LM	3	225 A	200 A	83829 VA	
9	PANEL SH	3	400 A	200 A	14849 VA	
10	Spare	3	100 A	100 A	0 VA	
11	PANEL L4	3	225 A	200 A	6660 VA	
12	PANEL L5	3	225 A	200 A	7220 VA	
13	PANEL M	3	1000 A	1000 A	277405 VA	
14	Spare	3	225 A	225 A	0 VA	
15	PANEL ALA	3	400 A	400 A	27778 VA	
16	Spare	3	225 A	200 A	0 VA	
17	Spare	3	225 A	200 A	0 VA	
18	Spare	3	225 A	200 A	0 VA	
19	Spare	3	400 A	300 A	0 VA	
20	Spare	3	100 A	100 A	0 VA	
		,	To	otal Conn. Load:	510761 VA	

Legend:	

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel	Totals
HVAC	317184 VA	100.00%	317184 VA		
Lighting	22105 VA	100.00%	22105 VA	Total Conn. Load:	510761 VA
Other	3400 VA	100.00%	3400 VA	Total Est. Demand:	468016 VA
Power	67582 VA	100.00%	67582 VA	Total Conn. Current:	1418 A
Receptacle	95490 VA	55.24%	52745 VA	Total Est. Demand Current:	1299 A
Spare	5000 VA	100.00%	5000 VA		





1. UFER GROUND TO BE 20' OF #4 AWG COPPER OR 1/2" MINIMUM DIAMETER STEEL REINFORCING BAR PER 250.52.



	Location: Supply From: Mounting: Enclosure:		Volts: 120/208 Wye Phases: 3 Wires: 4						A.I.C. Rating: 42KA Mains Type: MLO Mains Rating: 225 A						
Note	s:														
СКТ	Circuit Description	CKT Note	Trip	Poles		4		3	(:	Poles	Trip	CKT Note	Circuit Description	СКТ
1	LTS - SHELL		20 A	1	984 VA	1080 VA					1	20 A		SHELL STORAGE 161, EXTERIOR	2
3	LTS - SHELL		20 A	1			1025 VA	900 VA			1	20 A		SHELL STORAGE 161	4
5	LTS - SHELL		20 A	1					820 VA	900 VA	1	20 A		SHELL STORAGE 161	6
7	LTS - SHELL		20 A	1	820 VA	2080 VA					2	25 A	1	HEAT TRACE	8
9	Spare		20 A	1			0 VA	2080 VA							10
11	Spare		20 A	1					0 VA	2080 VA	2	25 A	1	HEAT TRACE	12
13	Spare		20 A	1	0 VA	2080 VA									14
15	Spare		20 A	1			0 VA	0 VA			1	20 A		Spare	16
17	Spare		20 A	1					0 VA	0 VA	1	20 A		Spare	18
19	Spare		20 A	1	0 VA	0 VA					1	20 A		Spare	20
21	Spare		20 A	1			0 VA	0 VA			1	20 A		Spare	22
23	Spare		20 A	1					0 VA	0 VA	1	20 A		Spare	24
25	Spare		20 A	1	0 VA	0 VA					1	20 A		Spare	26
27	Spare		20 A	1			0 VA	0 VA			1	20 A		Spare	28
29	Spare		20 A	1					0 VA	0 VA	1	20 A		Spare	30
31	<u> </u>		20 A	1	0 VA	0 VA					1	20 A		Spare	32
33	Spare		20 A	1			0 VA	0 VA			1	20 A		Spare	34
35	Spare		20 A	1					0 VA	0 VA	1	20 A		Spare	36
37	Spare		20 A	1	0 VA	0 VA					1	20 A		Spare	38
39	Spare		20 A	1			0 VA	0 VA			1	20 A		Spare	40
41	Spare		20 A	1					0 VA	0 VA	1	20 A		Spare	42
				Load:	704	4 VA	400	5 VA	3800) VA					
			Total A	Amps:	59) A	34	A	32	Α					
Lege	end:														

Branch Panel: SH

Branch Panel: M

Location: ELECTRICAL 134 Supply From: LDP Mounting: SURFACE Enclosure: Type 1

Volts: 120/208 Wye Phases: 3 Wires: 4

A.I.C. Rating: 42K Mains Type: MLO Mains Rating: 1000 A

MUSGROVE 234 S. Whisperwood Way Boise, ID 83709 208.384.0585 645 West 25th Street Idaho Falls, ID 83402 208.523.2862 www.musgrovepa.com

														I			
СКТ			Circuit Description CK		Trip	Poles		Α.		В		2	Poles	Trip	CKT Note	Circuit Description	СКТ
1	ENERGY RECOVERY VENT ERV-1	11000	175 A	3	17333 VA	7349 VA	•				3	80 A	11000	HEAT PUMP HP-1A	2		
3							17333 VA	7349 VA			-				4		
5									17333 VA	7349 VA					6		
7	ROOF TOP UNIT RTU-1		45 A	3	2882 VA	7349 VA					3	80 A		HEAT PUMP HP-1B	8		
9							2882 VA	7349 VA							10		
11									2882 VA	7349 VA					12		
13	ROOF TOP UNIT RTU-2		45 A	3	2882 VA	8012 VA					3	90 A		HEAT PUMP HP-2A	14		
15							2882 VA	8012 VA							16		
17									2882 VA	8012 VA					18		
19	ROOF TOP UNIT RTU-3		45 A	3	3362 VA	8012 VA					3	90 A		HEAT PUMP HP-2B	20		
21							3362 VA	8012 VA							22		
23									3362 VA	8012 VA					24		
25	HEAT PUMP HP-4A		80 A	3	7349 VA	8012 VA					3	80 A		HEAT PUMP HP-3A	26		
27							7349 VA	8012 VA							28		
29									7349 VA	8012 VA					30		
31	HEAT PUMP HP-4B		80 A	3	7349 VA	8012 VA					3	90 A		HEAT PUMP HP-3B	32		
33							7349 VA	8012 VA							34		
35									7349 VA	8012 VA					36		
37	HEAT PUMP HP-5		50 A	3	4563 VA	0 VA					1	20 A		Spare	38		
39							4563 VA	0 VA			1	20 A		Spare	40		
41									4563 VA	0 VA	1	20 A		Spare	42		
			Total	Load:	9246	S8 VA	9246	S8 VA	9246	8 VA			•				
			Total A	Amps:	77	1 A	77	1 A	77	1 A							
Leas	end:																

Branch Panel: L1

Location: INVESTIGATIONS 110 Supply From: LDP Mounting: Recessed Enclosure: Type 1

Volts: 120/208 Wye Phases: 3 Wires: 4

A.I.C. Rating: 10KA Mains Type: MLO Mains Rating: 225 A

	скт											СКТ		
СКТ		Trip	Poles		Α		3		С	Poles	Trip	Note	Circuit Description	СКТ
1	REC - TOILET ROOM 102	20 A	1	180 VA	180 VA					1	20 A		REC - INVESTIGATIONS 110	2
3	REC - SEC WAITING 104, CORR 105	20 A	1			1260 VA	180 VA			1	20 A		REC - INVESTIGATIONS 110	4
5	REC - MONITORING 107	20 A	1					720 VA	180 VA	1	20 A		REC - INVESTIGATIONS 110	6
7	REC - MONITORING 107	20 A	1	360 VA	180 VA					1	20 A		REC - INVESTIGATIONS 110	8
9	REC - MONITORING 107	20 A	1			360 VA	180 VA			1	20 A		REC - INVESTIGATIONS 110	10
11	REC - MONITORING 107	20 A	1					720 VA	180 VA	1	20 A		REC - INVESTIGATIONS 110	12
13	REC - SERGEANT 109	20 A	1	900 VA	180 VA					1	20 A		REC - INVESTIGATIONS 110	14
15	REC - SERGEANT 111	20 A	1			900 VA	180 VA			1	20 A		REC - INVESTIGATIONS 110	16
17	REC - ADMIN 112	20 A	1					900 VA	180 VA	1	20 A		REC - INVESTIGATIONS 110	18
19	REC - COPY 113	20 A	1	540 VA	180 VA					1	20 A		REC - INVESTIGATIONS 110	20
21	REC - COPY 113 PRINTER	20 A	1			180 VA	180 VA			1	20 A		REC - INVESTIGATIONS 110	22
23	REC - SERGEANT 114	20 A	1					900 VA	180 VA	1	20 A		REC - INVESTIGATIONS 110	24
25	REC - LIEUTENANT 115	20 A	1	900 VA	180 VA					1	20 A		REC - INVESTIGATIONS 110	26
27	REC - BRIEFING 116	20 A	1			1080 VA	180 VA			1	20 A		REC - INVESTIGATIONS 110	28
29	REC - BRIEFING 116	20 A	1					720 VA	180 VA	1	20 A		REC - INVESTIGATIONS 110	30
31	REC - BRIEFING 116 COUNTER	20 A	1	360 VA	720 VA					1	20 A		REC - INVESTIGATIONS 110	32
33	PWR - DOOR SECURITY	20 A	1			1250 VA	1080 VA			1	20 A		REC - INVESTIGATIONS 110	34
35									1080 VA	1	20 A		REC - INVESTIGATIONS 110	36
37	Spare	20 A	1	0 VA	900 VA					1	20 A		REC - INVESTIGATIONS 110	38
39	Spare	20 A	1			0 VA	0 VA			1	20 A		Spare	40
41	Spare	20 A	1					0 VA	0 VA	1	20 A		Spare	42
		Total	Load:	576	0 VA	7010) VA	5940	0 VA					
		Total	Amps:	48	3 A	59	Α	50) A	→				

Branch Panel: L2

Location: PATROL 120 Supply From: LDP Mounting: Recessed Enclosure: Type 1

Volts: 120/208 Wye Wires: 4

A.I.C. Rating: 22KA Mains Type: MLO Mains Rating: 225 A

I	Notes
---	-------

CVT	Cinavit Decembris	CKT	Tuin	Dalas		•		•			Dalas	Tuisa	CKT	Circuit Description	CKT
СКТ	<u> </u>	Note		Poles		A		3	(<i>,</i>	Poles	Trip	Note	Circuit Description	СКТ
1	REC - CAPTAIN 117		20 A	1	1260 VA	360 VA					1	20 A		REC - PATROL 120	2
3	REC - SERGEANT 118		20 A	1			1080 VA	360 VA			1	20 A		REC - PATROL 120	4
5	REC - SERGEANT 119		20 A	1					1080 VA	360 VA	1	20 A		REC - PATROL 120	6
7	REC - SERGEANT 121		20 A	1	900 VA	360 VA					1	20 A		REC - PATROL 120	8
9	REC - SERGEANT 122		20 A	1			900 VA	360 VA			1	20 A		REC - PATROL 120	10
11	REC - SERGEANT 123		20 A	1					900 VA	360 VA	1	20 A		REC - PATROL 120	12
13	REC - LIEUTENANT 124		20 A	1	900 VA	360 VA					1	20 A		REC - PATROL 120	14
15	REC - LIEUTENANT 125		20 A	1			1080 VA	360 VA			1	20 A		REC - PATROL 120	16
17	REC - COMM VEHICLE SAFETY 126		20 A	1					540 VA	360 VA	1	20 A		REC - PATROL 120	18
19	REC - COMM VEHICLE SAFETY 126		20 A	1	540 VA	360 VA					1	20 A		REC - PATROL 120	20
21	REC - COMM VEHICLE SAFETY 126		20 A	1			540 VA	360 VA			1	20 A		REC - PATROL 120	22
23	REC - SERGEANT 127		20 A	1					900 VA	360 VA	1	20 A		REC - PATROL 120	24
25	REC - TOILET ROOM 129		20 A	1	180 VA	360 VA					1	20 A		REC - PATROL 120	26
27	REC - TOILET ROOM 130		20 A	1			180 VA	360 VA			1	20 A		REC - PATROL 120	28
29										360 VA	1	20 A		REC - PATROL 120	30
31	Power		20 A	1	500 VA	360 VA					1	20 A		REC - PATROL 120	32
33	Spare		20 A	1			0 VA	360 VA			1	20 A		REC - PATROL 120	34
35	Spare		20 A	1					0 VA	360 VA	1	20 A		REC - PATROL 120	36
37	Spare		20 A	1	0 VA	1260 VA					1	20 A		REC - PATROL 120 WALLS	38
39	Spare		20 A	1			0 VA	1440 VA			1	20 A		REC - PATROL 120 WALLS	40
41	Spare		20 A	1					0 VA	180 VA	1	20 A		REC - PATROL 120 PRINTER	42
			Total	Load:	770	0 VA	7380) VA	5760	VA					
			Total	Amps:	66	6 A	64	A	48	Α	_				
Lege	end:		-	-											

ENGINEERING, P.A. PROJECT NO. 24-091

> FACILITY ISP NEW DISTRICT #6 F
> 1155 FOOTE DRIVE
> IDAHO FALLS, IDAHO 83402 SP DPW 2251'

R R C H I T E C T U R E /

REVISIONS

PROJECT NO. 21034 DATE: NOVEMBER 2024 DRAWN BY: DH/AH **CHECKED BY:**

Branch Panel: L3

Location: BREAK ROOM 146 Supply From: LDP Mounting: Recessed Enclosure: Type 1

Volts: 120/208 Wye Phases: 3 Wires: 4

A.I.C. Rating: 22KA Mains Type: MLO Mains Rating: 225 A

Notes: 1) PROVIDE AND INSTALL EQUIPMENT RATED GROUND FAULT CIRCUIT BREAKER.

СКТ	Circuit Description	CKT Note	Trip	Poles		4	ı	В		C	Poles	Trip	CKT Note	Circuit Description	СКТ
1	REC - TRAINING 108 TV/SCREEN E		20 A	1	720 VA	900 VA					1	20 A	1	REC - BREAK RM 146, DRY STOR	. 2
3	REC - TRAINING 108		20 A	1			1080 VA	540 VA			1	20 A	1	REC - BREAK RM 146	4
5	REC - TRAINING 108		20 A	1					720 VA	1200 VA	1	20 A	1	REC - BREAK RM 146 MICROWAVE	6
7	REC - TRAINING 108		20 A	1	1080 VA	1200 VA					1	20 A	1	REC - BREAK RM 146 MICROWAVE	8
9	REC - TRAINING 108 TV/SCREEN W		20 A	1			540 VA	180 VA			1	20 A	1	REC - BREAK RM 146 COUNTER	10
11	REC - TRAINING 108 BF		20 A	1					360 VA	180 VA	1	20 A	1	REC - BREAK RM 146 COUNTER	12
13	REC - TRAINING 108 BF		20 A	1	360 VA	180 VA					1	20 A	1	REC - BREAK RM 146 COUNTER	14
15	REC - TRAINING 108 BF		20 A	1			360 VA	1200 VA			1	20 A	1	REC - BREAK RM 146 DISPOSAL	16
17	REC - TRAINING 108 BF		20 A	1					360 VA	750 VA	1	20 A	1	REC - BREAK RM 146 DW	18
19	REC - TRAINING 108 BF		20 A	1	360 VA	180 VA					1	20 A	1	REC - BREAK RM 146 COFFEE	20
21	REC - TRAINING 108 BF		20 A	1			360 VA	180 VA			1	20 A	1	REC - BREAK RM 146 COFFEE	22
23	REC - TRAINING 108 BF		20 A	1					360 VA	720 VA	1	20 A	1	REC - BREAK RM 146	24
25	REC - TRAINING 108 BF		20 A	1	360 VA	750 VA					1	20 A	1	REC - BREAK RM 146 VENDING	26
27	REC - TRAINING 108 BF		20 A	1			360 VA	750 VA			1	20 A	1	REC - BREAK RM 146 VENDING	28
29	REC - TRAINING 108 BF		20 A	1					360 VA	360 VA	1	20 A		REC - TOILET ROOM 147	30
31	REC - TRAINING 108 BF		20 A	1	360 VA	900 VA					1	20 A		REC - ARMORER 148	32
33	REC - TRAINING 108 BF		20 A	1			360 VA	540 VA			1	20 A		REC - ARMORER 148	34
35	REC - TRAINING 108 BF		20 A	1					360 VA	540 VA	1	20 A		REC - ARMORER 148	36
37	REC - TRAINING 108 BF		20 A	1	360 VA	720 VA					1	20 A		REC - FILE/MAIL/COPY 150	38
39	REC - TRAINING 108 BF		20 A	1			360 VA	180 VA			1	20 A		REC - FILE/MAIL/COPY 150	40
41	REC - TRAINING 108 BF		20 A	1					360 VA	720 VA	1	20 A		REC - SUPERVISOR 151	42
43	REC - TRAINING 108 BF		20 A	1	360 VA	900 VA					1	20 A		REC - FRONT OFFICE 152	44
45	REC - TRAINING 108 BF		20 A	1			360 VA	360 VA			1	20 A		REC - FRONT OFFICE 152 RECEPT	46
47	REC - LOBBY 159, VEST 158, EXT		20 A	1					1080 VA	540 VA	1	20 A		REC - FRONT OFFICE 152/STOR	48
49	REC - LOBBY 159, 159A, 160		20 A	1	900 VA	360 VA					1	20 A		REC - FRONT OFFICE 152	50
51	REC - LOBBY 159 DF		20 A	1			360 VA	540 VA			1	20 A		REC - FRONT OFFICE 152	52
53	REC - FRONT OFFICE 152 RECEPT		20 A	1					540 VA	360 VA	1	20 A		REC - FRONT OFFICE 152	54
55	Spare		20 A	1	0 VA	360 VA					1	20 A		REC - FRONT OFFICE 152	56
57	Spare		20 A	1			0 VA	720 VA			1	20 A		REC - 153,TR 154,TR 155, COR 131	58
59	Spare		20 A	1					0 VA	360 VA	1	20 A		REC - CORRIDOR 131 DF	60
			Total	Load:	1131	0 VA	933	0 VA	1023	0 VA		1	1		
			Total	Amps:	95	5 A	78	3 A	86	6 A	_				

Branch Panel: L4

Location: WEIGHT ROOM 138 Supply From: LDP Mounting: Recessed Enclosure: Type 1

Volts: 120/208 Wye Phases: 3 Wires: 4

A.I.C. Rating: 22KA Mains Type: MLO Mains Rating: 225 A

1) GFCI

СКТ		CKT Note	Trip	Poles		4	E	3			Poles		CKT lote Circuit Description	СКТ
1	REC - WEIGHT RM 138 DF	1	20 A	1	360 VA	180 VA					1	20 A	REC - WEIGHT RM 138 FLOOR BO	X 2
3	REC - CHANGING 135		20 A	1			180 VA	180 VA			1	20 A	REC - WEIGHT RM 138 FLOOR BO	X 4
5	REC - CHANGING 136		20 A	1					180 VA	180 VA	1	20 A	REC - WEIGHT RM 138 FLOOR BO	X 6
7	REC - CHANGING 137		20 A	1	180 VA	180 VA					1	20 A	REC - WEIGHT RM 138 FLOOR BO	X 8
9	REC - WEIGHT RM 138		20 A	1			720 VA	180 VA			1	20 A	REC - WEIGHT RM 138 FLOOR BO	X 10
11	REC - WEIGHT RM 138 EQUIPMENT		20 A	1					180 VA	180 VA	1	20 A	REC - WEIGHT RM 138 FLOOR BO	X 12
13	REC - WEIGHT RM 138 EQUIPMENT		20 A	1	180 VA	360 VA					1	20 A	REC - WEIGHT RM 138	14
15	REC - WEIGHT RM 138 EQUIPMENT		20 A	1			180 VA	540 VA			1	20 A	REC - WEIGHT RM 138 TV	16
17	REC - WEIGHT RM 138 EQUIPMENT		20 A	1					180 VA	0 VA	1	20 A	Spare	18
19	REC - WEIGHT RM 138 EQUIPMENT		20 A	1	180 VA	0 VA					1	20 A	Spare	20
21	REC - CORRIDOR 131,132 STOR		20 A	1			180 VA	0 VA			1	20 A	Spare	22
23	REC - CORR 132, ELEC 134,		20 A	1					720 VA	0 VA	1	20 A	Spare	24
25	REC - MECH 133, EXTERIOR	1	20 A	1	1260 VA	0 VA					1	20 A	Spare	26
27	Spare		20 A	1			0 VA	0 VA			1	20 A	Spare	28
29	Spare		20 A	1					0 VA	0 VA	1	20 A	Spare	30
31	Spare		20 A	1	0 VA	0 VA					1	20 A	Spare	32
33	Spare		20 A	1			0 VA	0 VA			1	20 A	Spare	34
35	Spare		20 A	1					0 VA	0 VA	1	20 A	Spare	36
37	Spare		20 A	1	0 VA	0 VA					1	20 A	Spare	38
39	Spare		20 A	1			0 VA	0 VA			1	20 A	Spare	40
41	Spare		20 A	1					0 VA	0 VA	1	20 A	Spare	42
			Total	Load:	288	O VA	2160) VA	1620	VA			1	
			Total	Amps:	25	5 A	19) A	14	. A	_			

Branch Panel: L5

1) GFCI BREAKER

Location: EVIDENCE PROCESSING 141 Supply From: LDP Mounting: Recessed Enclosure: Type 1

Volts: 120/208 Wye Phases: 3 Wires: 4

A.I.C. Rating: 22KA Mains Type: MLO Mains Rating: 225 A

ENGINEERING, P.A. Boise, ID 83709 208.384.0585 645 West 25th Street Idaho Falls, ID 83402 208.523.2862 www.musgrovepa.com

MUSGROVE

		СКТ											СКТ		
СКТ	Circuit Description	Note	Trip	Poles		4	į į	3	C		Poles	Trip	Note	Circuit Description	СКТ
1	REC - BULK EVIDENCE 140		20 A	1	1260 VA	720 VA					1	20 A		REC - EVIDENCE PROCESSING 141	2
3	REC - BULK EV 140 FRIDGE	1	20 A	1			180 VA	720 VA			1	20 A		REC - EVIDENCE PROCESSING 141	4
5	REC - BULK EV 140 FRIDGE	1	20 A	1					180 VA	180 VA	1	20 A		REC - EVIDENCE PROCESSING 141	6
7	REC - EVIDENCE TECH 142		20 A	1	900 VA	540 VA					1	20 A		REC - EVIDENCE PROCESSING 141	8
9	REC - EVIDENCE TECH 142		20 A	1			360 VA	1000 VA			1	20 A		PWR - DOOR SECURITY	10
11	REC - EVIDENCE TECH 142		20 A	1					180 VA	1000 VA	1	20 A		PWR - DOOR SECURITY	12
13	Spare		20 A	1	0 VA	0 VA					1	20 A		Spare	14
15	Spare		20 A	1			0 VA	0 VA			1	20 A		Spare	16
17	Spare		20 A	1					0 VA	0 VA	1	20 A		Spare	18
19	Spare		20 A	1	0 VA	0 VA					1	20 A		Spare	20
21	Spare		20 A	1			0 VA	0 VA			1	20 A		Spare	22
23	Spare		20 A	1					0 VA	0 VA	1	20 A		Spare	24
25	Spare		20 A	1	0 VA	0 VA					1	20 A		Spare	26
27	Spare		20 A	1			0 VA	0 VA			1	20 A		Spare	28
29	Spare		20 A	1					0 VA	0 VA	1	20 A		Spare	30
31	Spare		20 A	1	0 VA	0 VA					1	20 A		Spare	32
33	Spare		20 A	1			0 VA	0 VA			1	20 A		Spare	34
35	Spare		20 A	1					0 VA	0 VA	1	20 A		Spare	36
37	Spare		20 A	1	0 VA	0 VA					1	20 A		Spare	38
39	Spare		20 A	1			0 VA	0 VA			1	20 A		Spare	40
41	Spare		20 A	1					0 VA	0 VA	1	20 A		Spare	42
			Total	Load:	3420) VA	2260) VA	1540	VA					
			Total	Amps:	29	Α	20	Α	13	Α					
Lege	end:														

Branch Panel: U1 Location: DATA 144 Supply From: LDP Mounting: Surface Enclosure: Type 1

Volts: 120/208 Wye Phases: 3 Wires: 4

A.I.C. Rating: 10KA Mains Type: MLO Mains Rating: 100 A

		01/7											01/7		
СКТ	Circuit Description	CKT Note	Trip	Poles		A	ı	3	(Poles	Trip	CKT Note	Circuit Description	СКТ
1	REC - DATA CENTER 144 RACK		20 A	1	360 VA	1800 VA					2	30 A		208V - DATA CENTER 144 RACK	2
3	REC - DATA CENTER 144 RACK		20 A	1			360 VA	1800 VA							4
5	REC - DATA CENTER 144 RACK		20 A	1					360 VA	1800 VA	2	30 A		208V - DATA CENTER 144 RACK	6
7	REC - DATA CENTER 144 RACK		20 A	1	360 VA	1800 VA									8
9	REC - DATA CENTER 144 RACK		20 A	1			360 VA	360 VA			1	20 A		REC - DATA 144 DAS EQUIP	10
11	REC - DATA CENTER 144 RACK		20 A	1					360 VA	360 VA	1	20 A		REC - DATA 144 SEC EQUIP	12
13						500 VA					1	20 A		DATA 144 ACCESS CONTROL SYS	14
15	Spare		20 A	1			0 VA	500 VA			1	20 A		DATA 144 DOOR SUPPLY	16
17	Spare		20 A	1					0 VA	0 VA	1	20 A		Spare	18
19	Spare		20 A	1	0 VA	0 VA					1	20 A		Spare	20
21	Spare		20 A	1			0 VA	0 VA			1	20 A		Spare	22
23	Spare		20 A	1					0 VA	0 VA	1	20 A		Spare	24
25	Spare		20 A	1	0 VA	0 VA					1	20 A		Spare	26
27	Spare		20 A	1			0 VA	0 VA			1	20 A		Spare	28
29	Spare		20 A	1					0 VA	0 VA	1	20 A		Spare	30
31	Spare		20 A	1	0 VA	0 VA					1	20 A		Spare	32
33	Spare		20 A	1			0 VA	0 VA			1	20 A		Spare	34
35	Spare		20 A	1					0 VA	0 VA	1	20 A		Spare	36
37	Spare		20 A	1	0 VA	0 VA					1	20 A		Spare	38
39	Spare		20 A	1			0 VA	0 VA			1	20 A		Spare	40
41	Spare		20 A	1					0 VA	0 VA	1	20 A		Spare	42
			Total	Load:	482	0 VA	3380	O VA	2880	VA					
			Total	Amps: ˈ	4	1 A	29) A	24	Α	_				

Branch Panel:	U2
Location:	DATA 144
Supply From:	LDP
Mounting:	Surface
Enclosure:	Type 1

Volts: 120/208 Wye Phases: 3 Wires: 4

A.I.C. Rating: 10KA Mains Type: MLO Mains Rating: 100 A

KT	Circuit Description	CKT Note	Trip	Poles		A		В		C	Poles	Trip	CKT Note	Circuit Description	СКТ
	REC - DATA CENTER 144 RACK	14010	20 A	1	360 VA	1800 VA				<i>-</i>	2	30 A	11010	208V - DATA CENTER 144 RACK	2
	REC - DATA CENTER 144 RACK		20 A	1	000 771	1000 171	360 VA	1800 VA							4
	REC - DATA CENTER 144 RACK		20 A	1			000 171	1000 171	360 VA	1800 VA	2	30 A		208V - DATA CENTER 144 RACK	6
	REC - DATA CENTER 144 RACK		20 A	1	360 VA	1800 VA			000 171	1000 171					8
_	REC - DATA CENTER 144 RACK		20 A	1	000 171	1000 171	360 VA	360 VA			1	20 A		REC - DATA 144 DAS EQUIP	10
	REC - DATA CENTER 144 RACK		20 A	1			333 171	000 171	360 VA	360 VA	1	20 A		REC - DATA 144 SEC EQUIP	12
_	REC - DATA CENTER 144		20 A	1	360 VA	1080 VA					1	20 A		REC - DATA CENTER 144	14
5 5	Spare		20 A	1			0 VA	0 VA			1	20 A		Spare	16
_	Spare		20 A	1					0 VA	0 VA	1	20 A		Spare	18
-	Spare		20 A	1	0 VA	0 VA					1	20 A		Spare	20
-	Spare		20 A	1			0 VA	0 VA			1	20 A		Spare	22
3 5	Spare		20 A	1					0 VA	0 VA	1	20 A		Spare	24
5 5	Spare		20 A	1	0 VA	0 VA					1	20 A		Spare	26
7 8	Spare		20 A	1			0 VA	0 VA			1	20 A		Spare	28
9 8	Spare		20 A	1					0 VA	0 VA	1	20 A		Spare	30
1 5	Spare		20 A	1	0 VA	0 VA					1	20 A		Spare	32
3 8	Spare		20 A	1			0 VA	0 VA			1	20 A		Spare	34
5 5	Spare		20 A	1					0 VA	0 VA	1	20 A		Spare	36
7 5	Spare		20 A	1	0 VA	0 VA					1	20 A		Spare	38
9 8	Spare		20 A	1			0 VA	0 VA			1	20 A		Spare	40
1 8	Spare		20 A	1					0 VA	0 VA	1	20 A		Spare	42
			Total	Load:	576	0 VA	288	0 VA	2880	AV C					•
			Total A	Amps: ¯	48	3 A	24	1 A	24	A					

234 S. Whisperwood Way PROJECT NO. 24-091 ## DDWarchitects p.a.

RRCHITECTURE/PLANNING/INTERIORS

990 JOHN RDRMS PARKWAY / P.O. BOX 2212 / IDRHU FALLS, IDRHO 83403-2212

(P) 208.522.8779 (F) 208.522.8785 (W) nbwarchitects.com

> 1 ISP NEW DISTRICT #6 FACILITY
> 1155 FOOTE DRIVE
> IDAHO FALLS, IDAHO 83402 DPW 22511

REVISIONS

PROJECT NO. NOVEMBER 2024 DRAWN BY: DH/AH CHECKED BY:



MUSGROVE ENGINEERING, P.A. 234 S. Whisperwood Way Boise, ID 83709 208.384.0585 645 West 25th Street Idaho Falls, ID 83402 208.523.2862 www.musgrovepa.com PROJECT NO. 24-091



FACILITY 9# NEW DISTRICT **DPW 2251** REVISIONS

NOVEMBER 2024 CHECKED BY:

ENGINEERING, P.A. 234 S. Whisperwood Way Boise, ID 83709 208.384.0585 645 West 25th Street Idaho Falls, ID 83402 208.523.2862 www.musgrovepa.com

MUSGROVE



PROJECT NO. 24-091

FACIL

S

22

M

REVISIONS

COMcheck Software Version 4.1.5.5 **Interior Lighting Compliance Certificate**

Project Information 2018 IECC Energy Code: DPW 22511 ISP NEW DISTRICT #6 FACILITY - REMODEL Project Title:

Construction Site: Alleh Halversen Musgrove Engineering 645 W. 25th St. 1155 FOOTE DRIVE IDAHO FALLS, ID 83402 Idaho Falls, ID 83402

allenh@musgrovepa.com

Allowed Interior Lighting Power

Project Type:

Area Category	Floor Area (ft2)	Allowed Watts / ft		wed Watt (B X C)
1-ISP FACILITY (Police)	37190	0.80		29752
2-ROLLING ASSETS (Automotive Facility)	3510	0.71		2492
	То	tal Allowed W	/atts =	32244
Proposed Interior Lighting Power				
Α	В	С	D	Е
Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	Lamps/ Fixture	# of Fixtures	Fixture Watt.	(C X D)
ISP FACILITY (Police 37190 sq.ft.)				
LED 1: A1/A1E: 2X2 LED FLAT PANEL: Other:	1	225	41	9225
LED 2: B1/B1E: 2X4 LED FLAT PANEL: Other:	1	110	55	6050
LED 3: C1: 6" LED WAFER DOWN LIGHT: Other:	1	39	13	507
LED 4: H1: 4FT LED STRIP: Other:	1	29	26	740
LED 5: H2: 4FT LED STRIP: Other:	1	60	32	1908
LED 6: H3: 4FT LED STRIP: Other:	1	89	41	3649
LED 11: K1: 6" VANDAL RESISTANT DOWN LIGHT: Other:	1	10	20	197
ROLLING ASSETS (Automotive Facility 3510 sq.ft.)				
LED 7: B1: 2X4 LED FLAT PANEL: Other:	1	2	55	110
LED 8: C1: 6" LED WAFER DOWN LIGHT: Other:	1	2	13	26
LED 9: H2: 4FT LED STRIP: Other:	1	11	32	350
LED 10: D1/D1E: 6" VANDAL RESISTANT DOWN LIGHT: Other:	1	10	93	930
		Total Propos	ed Watts =	23691

Interior Lighting Compliance Statement Compliance Statement: The proposed interior lighting alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2018 IECC requirements in COMcheck Version 4.1.5.5 and to comply with any

Project Title: DPW 22511 ISP NEW DISTRICT #6 FACILITY - REMODEL Report date: 10/29/24 Data filename: P:\Files\2024\24091\CALCS\ELEC\24091 Electrical_Compliance.cck Page 1 of 10

applicable mandatory requirements listed in the Inspection Checklist. 10/29/24 Allen Halversen - PE

▶ COM*check* Software Version 4.1.5.5 **Exterior Lighting Compliance Certificate**

Project Information

Energy Code: 2018 IECC DPW 22511 ISP NEW DISTRICT #6 FACILITY - REMODEL Project Title: Project Type: Exterior Lighting Zone 4 (High activity metropolitan commercial district (LZ4))

Designer/Contractor: Owner/Agent: 1155 FOOTE DRIVE Musgrove Engineering 645 W. 25th St. IDAHO FALLS, ID 83402 ldaho Falls, ID 83402 208-523-2862 allenh@musgrovepa.com

Area/Surface Category (B X C) Parking area Guarded facility, entrance/inspection area 62391 ft2 0.5 31196 800 ft of Walkway < 10 feet wide Pedestrian and vehicular entrances and exits 66 ft of door Special feature area Total Tradable Watts (a) = Total Allowed Watts =

Total Allowed Supplemental Watts (b) =

A Fixture ID: Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	(C X D
Parking area (23569 ft2): Tradable Wattage LED 1: X5: LED Roadway-Parking Unit 220W:	1	4	219	876
Guarded facility, entrance/inspection area (62391 ft2): Non-tradable Wattage LED 2: X5: LED Roadway-Parking Unit 220W:	1	8	219	1752
Walkway < 10 feet wide (800 ft of walkway length): Tradable Wattage LED 3: X1: LED Linear 20W: LED 5: X2: LED Linear 10W: LED 7: X3: LED Panel 33W:	1 1 1	12 10 11	11 10 30	132 102 330
Pedestrian and vehicular entrances and exits (66 ft of door width): Tradable Wattage LED 4: X1: LED Linear 20W: LED 6: X2: LED Linear 11W:	1	8	18 11	144
Special feature area (15 ft2): Tradable Wattage LED 8: X4: LED Linear 22W:	1	3	21	63

Total Tradable Proposed Watts = 1658 Exterior Lighting Compliance Statement Compliance Statement: The proposed exterior lighting alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been designed to meet the 2018 IECC requirements in COMcheck Version 4.1.5.5 and to comply with any applicable mandatory requirements listed in the Inspection Checklist. Allen Halversen - PE

Project Title: DPW 22511 ISP NEW DISTRICT #6 FACILITY - REMODEL Report date: 10/29/24 Project Title: DPW 22511 ISP NEW DISTRICT #6 FACILITY - REMODEL Data filename: P:\Files\2024\24091\CALCS\ELEC\24091 Electrical_Compliance.cck Page 2 of 10 Data filename: P:\Files\2024\24091\CALCS\ELEC\24091 Electrical_Compliance.cck

Report date: 10/29/24

Construction Site:

Allowed Exterior Lighting Power

(a) Wattage tradeoffs are only allowed between tradable areas/surfaces.

Project Title: DPW 22511 ISP NEW DISTRICT #6 FACILITY - REMODEL Report date: 10/29/24 Data filename: P:\Files\2024\24091\CALCS\ELEC\24091 Electrical_Compliance.cck

SWITCH AND OCCUPANCY SENSOR SCHEDULE Sosi Occupancy Sensor - Wall Mount, Single Technology, Line Voltage, Single Pole, White

1. LIST OF FUNCTIONAL TESTS USED DURING THE COMMISSIONING PROCESS ON EACH PIECE OF EQUIPMENT.

Sos2 OCCUPANCY SENSOR - WALL MOUNT, DUAL TECHNOLOGY, LINE VOLTAGE, SINGLE POLE, DIMMING, WHITE SENSOR SWITCH WSXA-MWO-PDT-D-COLOR BY ARCHITECT

ENERGY CODE COMMISSIONING COMPLIANCE NOTES

2. MANUFACTURER'S OPERATIONS AND MAINTENANCE DATA ON ALL PIECES OF EQUIPMENT. ROUTINE MAINTENANCE ACTIONS SHALL BE

4. LIGHTING CONTROL SYSTEMS MAINTENANCE AND CALIBRATION INFORMATION INCLUDING WIRING DIAGRAMS, EQUIPMENT AND SYSTEM SCHEMATICS, AND CONTROL SEQUENCES OF OPERATIONS. DESIRED OR FIELD DETERMINED SETPOINTS SHALL BE PERMANENTLY

RECORDED ON CONTROL DRAWINGS AT ALL CONTROL DEVICES, OR FOR DIGITAL CONTROL SYSTEMS, IN THE SYSTEM PROGRAMMING

CALIBRATED, ADJUSTED, P[ROGRAMMED, AND IN PROPER WORKING CONDITION IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS AND

CONFIRM THAT THE TIME SWITCHES AND PROGRAMMABLE SCHEDULE CONTROLS ARE PROGRAMMED TO TURN THE LIGHTS OFF.

3. LIST OF DEFICIENCIES FOUND AND CORRESPONDING CORRECTIVE MEASURES EITHER IMPLEMENTED OR PROPOSED ON EACH PIECE OF

4. LIST OF EQUIPMENT NOT ABLE TO BE FUNCTIONALLY TESTED DUE TO CURRENT CLIMATE CONDITIONS. THESE PIECES OF EQUIPMENT WILL

FINAL LIGHTING SYSTEM FUNCTIONAL REPORT - A REPORT OF TEST PROCEDURES AND RESULTS IDENTIFIED AS THE "FINAL LIGHTING CONTROL

CONFIRM THAT THE PLACEMENT, SENSITIVITY AND TIME-OUT ADJUSTMENTS FOR OCCUPANT SENSORS YIELD ACCEPTABLE PERFORMANCE.

CONFIRM THAT THE PLACEMENT AND SENSITIVITY ADJUSTMENTS FOR PHOTOSENSOR CONTROLS REDUCE ELECTRIC LIGHT BASED ON THE

IT SHALL BE THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL BELOW NOTED DOCUMENTS WITHIN 90 DAYS OF CERTIFICATE OF

A. <u>AS-BUILT DRAWINGS</u> - DRAWINGS SHALL INCLUDE THE LOCATION AND PERFORMANCE DATA OF ALL PIECES OF MECHANICAL EQUIPMENT.

5. A NARRATIVE ON HOW EACH LIGHTING SYSTEM IN INTENDED TO OPERATE, INCLUDING RECOMMENDED SETPOINTS.

FUNCTIONAL TESTING - ALL AUTOMATIC LIGHTING CONTROL SYSTEM SHALL BE FULLY TESTED TO ENSURE THE CONTROL HARDWARE AND SOFTWARE ARE

WHERE OCCUPANT SENSORS, TIME SWITCHES, PROGRAMMABLE CONTROLS, PHOTOSENSORS OR DAYLIGHTING CONTROLS ARE INSTALLED, THE

B. <u>OPERATING AND MAINTENANCE MANUALS</u> - MANUALS SHALL INCLUDE THE FOLLOWING:

AMOUNT OF USABLE DAYLIGHT IN THE SPACE AS SPECIFIED.

2. RESULTS OF ALL FUNCTIONAL TESTS ON ALL PIECES OF EQUIPMENT.

FUNCTIONALLY TESTED ONCE CLIMATE CHANGES ALLOW.

SENSOR SWITCH WSXA-COLOR BY ARCHITECT

REPORT" SHALL BE DELIVERED TO THE BUILDING OWNER. THE REPORT SHALL INCLUDE THE

C. <u>LIGHTING SYSTEM FUNCTIONAL TESTING REQUIREMENTS</u>

MANUFACTURER'S INSTALLATION INSTRUCTIONS.

SUBMITTAL DATA ON ALL PIECES OF EQUIPMENT REQUIRING MAINTENANCE.

NORMETIANED ADDRESS AND PHONE NUMBER OF OF AT LEAST ONE (1) SERVICE PROVIDED.

OS3) OCCUPANCY SENSOR - CEILING MOUNT, DUAL TECHNOLOGY, LOW VOLTAGE, SMALL MOTION SENSOR SWITCH CM-PDT-9

OS4) OCCUPANCY SENSOR - CEILING MOUNT, DUAL TECHNOLOGY, LOW VOLTAGE, HIGH-BAY SENSOR SWITCH CM-PDT-6

PP1 POWER PACK - 120 VOLT, OUTPUT CURRENT: 150mA @ 15 VDC

SENSOR SWITCH PP20

S_{D1} DIMMING SWITCH - WALL MOUNT, 120/277V INPUT, 120/277V OUTPUT, LED, ON/OFF/DIMMER SWITCH SYNERGY ISD-BC-120/277-COLOR BY ARCHITECT

NOTE: APPROVED EQUAL FROM WATT STOPPER, GREENGATE, LUTRON OR HUBBELL. PRIOR APPROVAL SUBMITTALS REQUIRED.

NETWORKED SWITCH AND OCCUPANCY SENSOR LEGEND

- S_{N1} DIMMING SWITCH WALL MOUNT, ON/OFF, DIM UP/DOWN, SINGLE CHANNEL, COLOR BY ARCHITECT nLIGHT nPODMA-DX-WH
- S_{N2} DIMMING SWITCH WALL MOUNT, ON/OFF, DIM UP/DOWN, TWO CHANNEL, COLOR BY ARCHITECT nLIGHT nPODMA-2P-DX-WH
- (NPC) EXTERIOR NLIGHT ENABLED PHOTOCELL KIT JUNCTION BOX MOUNTED, ON/OFF 120V REQUIRED FOR INCLUDED POWER SUPPLY nLIGHT nIO-PC-KIT
- (NS1) nLIGHT DAYLIGHT HARVESTING

SECTION 408 SYSTEM COMMISSIONING

PREFORMED

NOTE: APPROVED EQUAL FROM WATT STOPPER, ILUMIN. PRIOR APPROVAL SUBMITTALS REQUIRED.

SALES REPRESENTATIVE AND ELECTRICAL CONTRACTOR SHALL INCLUDE COST IN LIGHTING AND CONTROLS PACKAGE FOR REGISTERED DESIGN PROFESSIONAL TO PROGRAM AND COMMISSION ALL PROGRAMMABLE LIGHTING COMPONENTS SEE SPECIFICATION SECTION 260930

 \ominus

nLIGHT nPODM

MUSGROVE ENGINEERING, P.A. 234 S. Whisperwood Way Boise, ID 83709 208.384.0585 645 West 25th Street Idaho Falls, ID 83402 208.523.2862 www.musgrovepa.com PROJECT NO. 24-091

20894 10/29/2024/

A B C H I T E C T U R E / P L A N I N G / I N T E P 200 JOHN ADAMS PARKWAY / P.O. BOX 2212 / IDAHO FALLS, IDAHO B (P) 208.522.8739 (F) 208.522.8785 (W) nbwarchitects.

TYPE	DESCRIPTION	MTG.	LAMPS	WATTS	MFG. & CATALOG NUMBER	NOTES
		LIGHTING FIXTU	JRE SCHEDULE	(24-091)		
TYPE	DESCRIPTION	MTG.	LAMPS	` 	MFG. & CATALOG NUMBER	NOTES
	2'X2' LED FLAT PANEL SWITCHABLE LUMENS	IW10:	LED	WATTO	LITHONIA: CPANL-2X2-AL01-SWW7-M4	NOTE
A1	SEE KEY NOTE ON LIGHTING PLAN FOR LUMEN OUTPUT SETTING, MVOLT.	CEILING GRID	4000K	22/31/41	COLUMBIA: CFP22-LSCS	1
A1E	2'X2' LED FLAT PANEL SWITCHABLE LUMENS SEE KEY NOTE ON LIGHTING PLAN FOR LUMEN OUTPUT SETTING, MVOLT. EMERGENCY BATTERY PACK	CEILING GRID	LED 4000K	22/31/41	LITHONIA: CPANL-2X2-AL01-SWW7-M4, ILBLP-CP10-HE-SD-A COLUMBIA: CFP22-LSCS-ELL14	1
B1	2'X4' LED FLAT PANEL SWITCHABLE LUMENS SEE KEY NOTE ON LIGHTING PLAN FOR LUMEN OUTPUT SETTING, MVOLT.	CEILING GRID	LED 4000K	36/45/55	LITHONIA: CPANL-2X4-ALO6-SWW7-M2, COLUMBIA: CFP24-LSCS	1
B1E	2'X4' LED FLAT PANEL SWITCHABLE LUMENS SEE KEY NOTE ON LIGHTING PLAN FOR LUMEN OUTPUT SETTING, MVOLT. EMERGENCY BATTERY PACK	CEILING GRID	LED 4000K	36/45/55	LITHONIA: CPANL-2X4-ALO6-SWW7-M2, ILBLP-CP10-HE-SD-A COLUMBIA: CFP24-LSCS-ELL14	1
C1	6" LED WAFER DOWNLIGHT 1150 LUMENS, FINISH BY OWNER	RECESSED	LED 4000K	13	LITHONIA: WF6-SWW5-90CRI-COLOR-M6, WF8643-PAN-U ENVISION LED: LED-SL-PNL-6R-3P15W-5CCT-WH + CUNV-NC-ICAT-7H	1
D1	LED HIGH BAY FIXTURE 12,000-18,000 LUMENS WHITE FINISH	SUSPENDED	LED 4000K/5000K	93/106/132	LITHONIA NO. CPRB-AL013-MVOLT-80CRI-DWH	1
D1E	LED HIGH BAY FIXTURE 12,000-18,000 LUMENS WHITE FINISH, EMERGENCY BATTERY	SUSPENDED	LED 4000K/5000K	93/106/132	LITHONIA NO. CPRB-AL013-MVOLT-80CRI-DWH-RBAY BLDE40WCP M4	1
E1	LED EXIT SIGN, SINGLE/DUAL FACE, WALL OR CEILING MOUNT, GREEN OR RED	AS INDICATED ON PLANS	LED	1	LITHONIA: EXRG-EL-M6 COMPASS LIFE SAFETY: CERG	1
H1	4' LED STRIP WITH ROUND LENSE. AIRCRAFT CABLE SUSPENTION MVOLT, 80CRI, 4000K, 4000LM 0-10V DIMMING, FINISH BY OWNER	AIRCRAFT CABLE	LED 4000K	25.5	LITHONIA: CLX-L48-4000LM-SEF-RDL-MVOLT-GZ10-40K-80CRI-FINISH-ZACVH M100 COLUMBIA: MPS4-40LW-CW-ED1U CM96NF-KIT	1
H2	4' LED STRIP WITH ROUND LENSE. AIRCRAFT CABLE SUSPENTION MVOLT, 80CRI, 4000K, 5000LM 0-10V DIMMING, FINISH BY OWNER	AIRCRAFT CABLE	LED 4000K	31.8	LITHONIA: CLX-L48-5000LM-SEF-RDL-MVOLT-GZ10-40K-80CRI-FINISH-ZACVH M100 COLUMBIA: MPS4-40ML-CW-ED1U CM96NF-KIT	1
H2E	4' LED STRIP WITH ROUND LENSE. AIRCRAFT CABLE SUSPENTION, EMERGENCY MVOLT, 80CRI, 4000K, 5000LM 0-10V DIMMING, FINISH BY OWNER	AIRCRAFT CABLE	LED 4000K	31.8	LITHONIA: CLX-L48-5000LM-SEF-RDL-MVOLT-GZ10-40K-80CRI-PS1050-FINISH-ZACVH M100 COLUMBIA: MPS4-40ML-CW-ED1U-ELL14 CM96NF-KIT	1
НЗ	4' LED STRIP WITH DROP LENSE. AIRCRAFT CABLE SUSPENTION MVOLT, 80CRI, 4000K, 5000LM, WITH OCCUPANCY SENSOR 0-10V DIMMING, FINISH BY OWNER	AIRCRAFT CABLE	LED 4000K	41	LITHONIA: ZL1D-L48-5000LM-FST-MVOLT-40K-80CRI-LBHOSZU-WH COLUMBIA: MPS4-40ML-CW-ED1U CM96NF-KIT	1
НЗЕ	4' LED STRIP WITH DROP LENSE. AIRCRAFT CABLE SUSPENTION, EMERGENCY MVOLT, 80CRI, 4000K, 5000LM 0-10V DIMMING, FINISH BY OWNER	AIRCRAFT CABLE	LED 4000K	41	LITHONIA: ZL1D-L48-5000LM-FST-MVOLT-40K-80CRI-E10WLCP-LBHOSZU-WH COLUMBIA: MPS4-40ML-CW-ED1U-ELL14 CM96NF-KIT	1
K1	6" VANDAL RESISTANT DOWNLIGHT ROUND, 2000LM MVOLT, 85CRI, 4000K 0-10 VOLT DIMMING, MATTE-DIFFUSE	RECESSED	LED 4000K	19.7	GOTHAM: EVO6VR-40/20-AR-LDWD-CGL-MVOLT-GZ10-NLT LIFESHIELD: LTR(VR)-6RD-H-ML20L-DM1 LTR-6RD-T-ML40K8WD-SS LTR-6RD-CEVR-WT	1
K1E	6" VANDAL RESISTANT DOWNLIGHT ROUND, 2000LM MVOLT, 85CRI, 4000K 0-10 VOLT DIMMING, MATTE-DIFFUSE, EMERGENCY BATTERY PACK	RECESSED	LED 4000K	19.7	GOTHAM: EVO6VR-40/20-AR-LDWD-CGL-MVOLT-GZ10-NLTER-ELRSD LIFESHIELD: LTR(VR)-6RD-H-ML20L-DM1EM LTR-6RD-T-ML40K8WD-SS LTR-6RD-CEVR-WT	1
X1	ARCHITECTURAL WALL SCONCE, 2000 LUMENS MVOLT, 80CRI, 4000K 0-10 VOLT DIMMING,FINISH BY OWNER	SURFACE	LED 4000K	18	LITHONIA: WDGE2-LED-P2-40K-80CRI-VF-MVOLT-SRM-FINISH BEACON PRODUCTS: RWL1-48L-15-4K7-4W-UNV-***	1
X1E	ARCHITECTURAL WALL SCONCE, 2000 LUMENS MVOLT, 80CRI, 4000K 0-10 VOLT DIMMING, FINISH BY OWNER, EMERGENCY BATTERY PACK	SURFACE	LED 4000K	10.2	LITHONIA: WDGE2-LED-P2-40K-80CRI-VF-MVOLT-SRM-E20WC-FINISH BEACON PRODUCTS: RWL1-48L-15-4K7-4W-UNV-***-EH	1
X2	6" LED DOWNLIGHT, MVOLT 1500 LUMENS, FINISH BY OWNER 0-10 VOLT DIMMING	RECESSED	LED 4000K	10.2	LITHONIA: LDN6-40/10-LO6AR-FINISH-MVOLT-GZ10-FCM-WL PRESCOLITE LFR-6RD-M-15L40K8-MD-DM1 LFR-6RD-T-SS-CL LFR-6RD-H	1
X2E	6" LED DOWNLIGHT, MVOLT 1500 LUMENS, FINISH BY OWNER 0-10 VOLT DIMMING, EMERGENCY BATTERY PACK	RECESSED	LED 4000K	28.3	LITHONIA: LDN6-40/10-LO6AR-FINISH-MVOLT-GZ10-FCM-WL PRESCOLITE LFR-6RD-M-15L40K8-MD-DM1EM LFR-6RD-T-SS-CL LFR-6RD-H	1
Х3	WALL SCONCE, UP AND DOWN ILLUMINATION, 2700 LUMENS 120-277V, 80CRI, 4000K 0-10 VOLT DIMMING, FINISH BY OWNER	SURFACE	LED 4000K	30	OCL: VA2-010A-08-NF-FINISH-LED2-40K-UNV-DM1 INSIGHT LIGHITING: SSM-UD-MO-40K-30-WM-***-DIM-***	1
X4	FLAG POLE SPOT LIGHT NARROW SPOTLIGHT OPTIC	KNUCKLE/YOKE	LED 4000K	21	LITHONIA: DSXF1 LED-P1-40K-NSP-MVOLT-MOUNTING-FINISH BY ARCHITECT	1
X5	POLE MOUNTED AREA LUMINAIRE 30,068 LUMENS, TYPE TFTM DISTRIBUTION MOUNTING TO BE DETERMINED BY ELECTRICAL CONTRACTOR, COLOR BY ARCHITECT	POLE	LED 4000K	219	LITHONIA NO. DSX2-LED-P3-40K-TFTM-MVOLT-MOUNTING-XX	1
XP1	30' SQUARE STRAIGHT STEEL POLE. SINGLE FIXTURE MOUNTING. TURE SCHEDULE NOTES:	NA	NA	NA	LITHONIA: SSS-30-5G-DM19-FINISH HUBBELL OUTDOOR LIGHTING: SSS-H-30-50-B-1-S2-COLOR US ARCHITECTURAL/SUN VALLEY: SNTS305-7/ 1/ COLOR	1

CAT5e CABLE

DEVICES IN

CIRCUIT

 \ominus

nLIGHT nPODM 2P DX

nLIGHT nPODM 2P DX

TRAINING 161

ON/OFF

 \ominus

nLIGHT nPODM 2P DX

CAT5e CABLE

CONNECTED TO

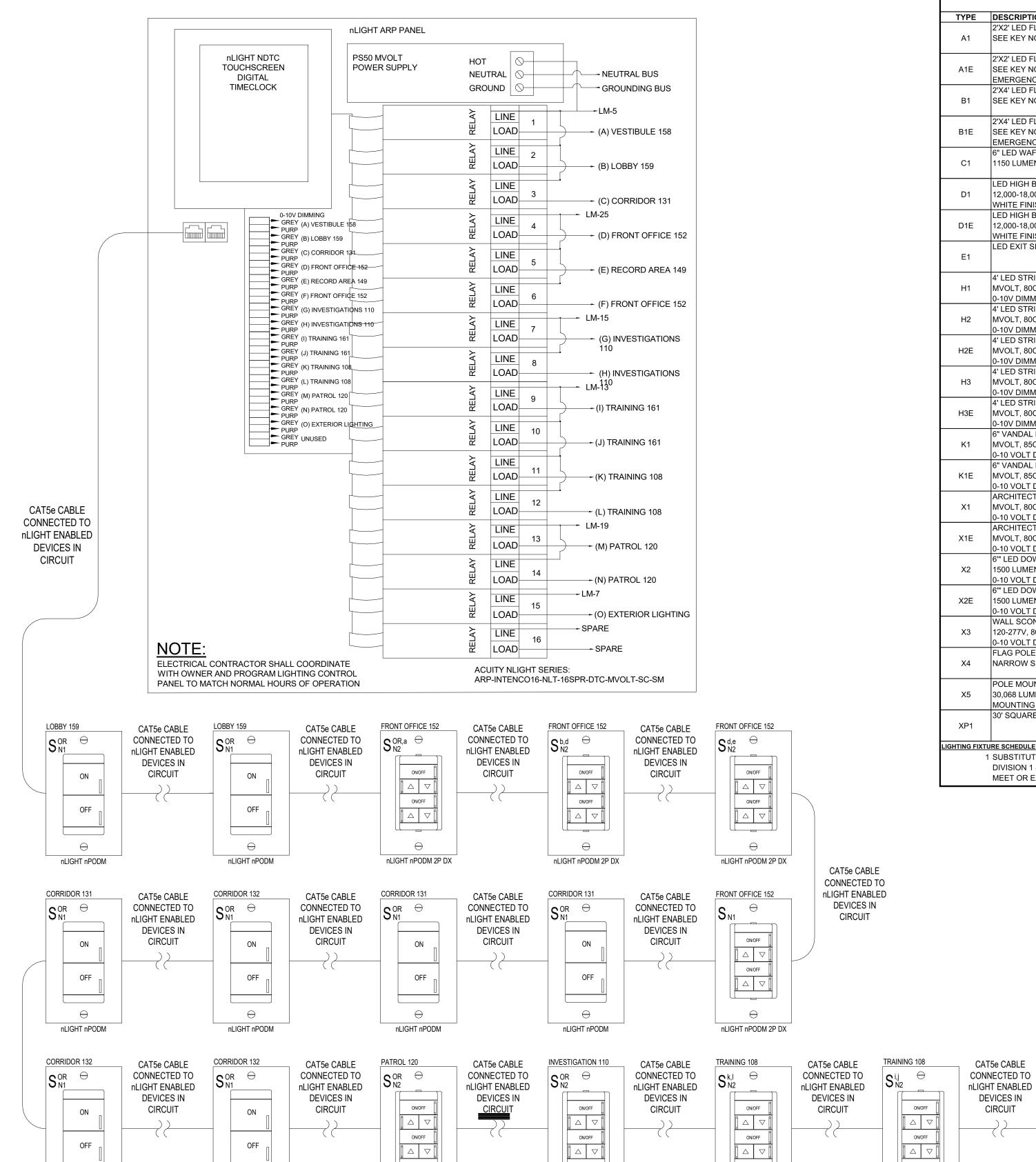
nLIGHT ENABLED

DEVICES IN

CIRCUIT

nLIGHT nPODM 2P DX

LIGHTING FIXTURE SCHEDULE (24-091)





nLIGHT nPODM 2P DX

 \ominus

nLIGHT nPODM 2P DX

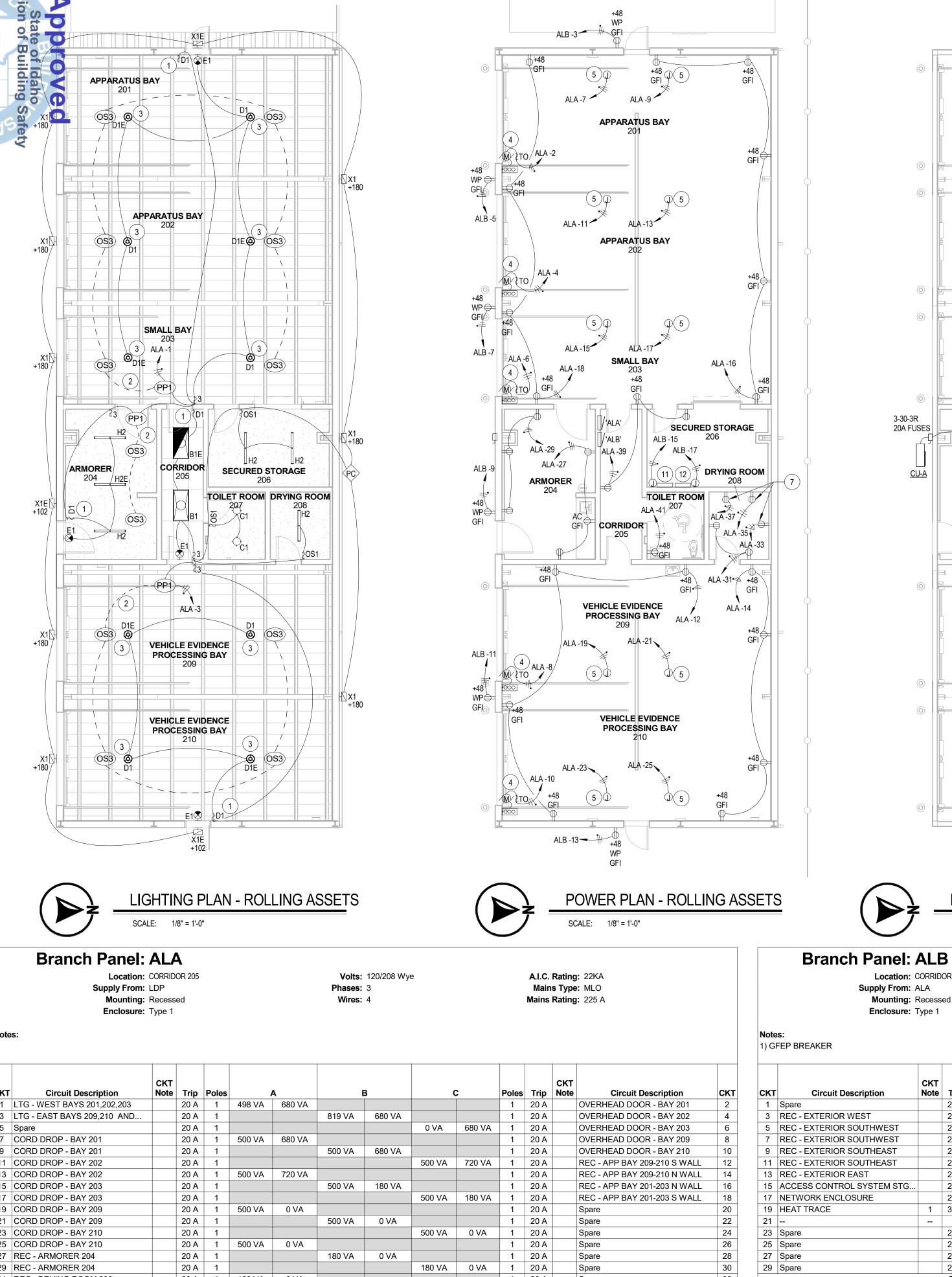
ISP NEW DISTRICT #6 F
1155 FOOTE DRIVE
IDAHO FALLS, IDAHO 83402 <u>S</u> **DPW 225**

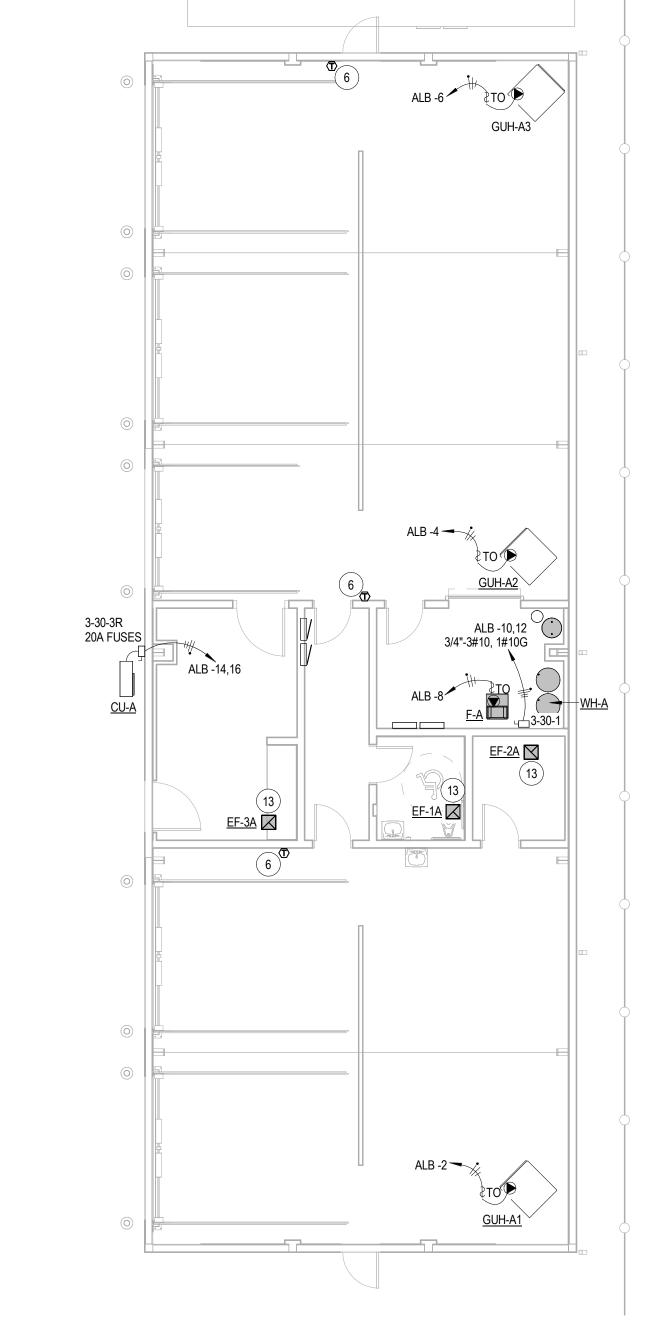
FACILITY

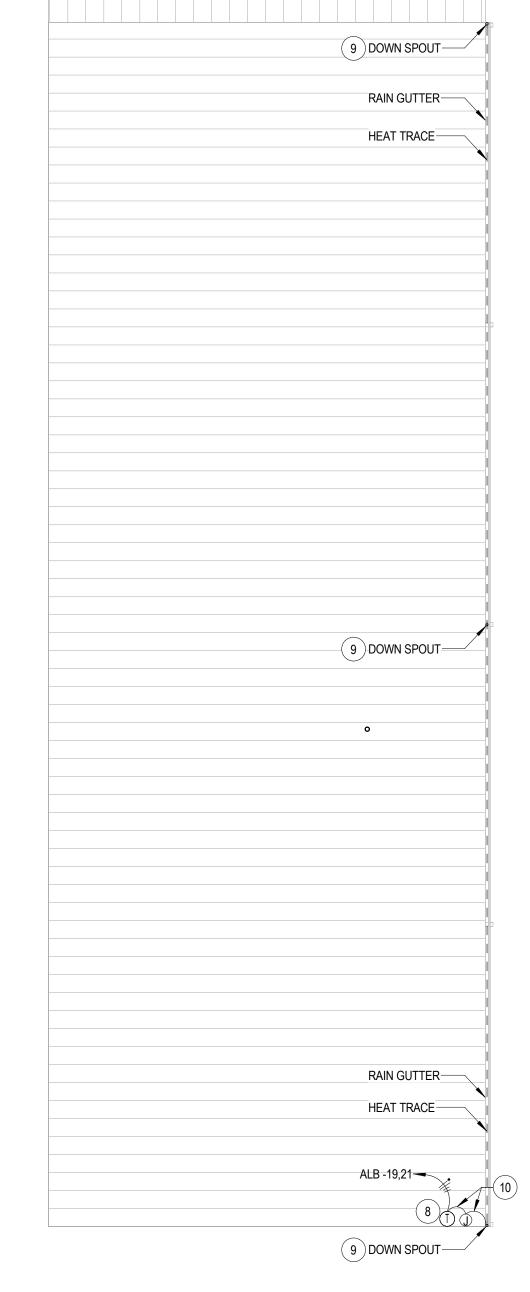
ETAILS

REVISIONS

PROJECT NO. DATE: NOVEMBER 2024 DRAWN BY: DH/AH CHECKED BY: MNB









MUSGROVE ENGINEERING, P.A. 234 S. Whisperwood Way

KEYED NOTES:

- (#) SYMBOL USED FOR CALLOUT
- 1. INSTALL 0-10V DIMMING CONDUCTORS FROM SWITCH TO ALL LIGHTS CONTROLLED BY THIS SWITCH IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS. VERIFY INSTALLATION REQUIREMENTS WITH SUBMITTALS PRIOR TO INSTALLATION.
- PROVIDE AND INSTALL 18/3C UTP 24 VOLT CABLE BETWEEN POWER PACK AND OCCUPANCY SENSORS IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- 3. CHAIN HUNG LIGHT FIXTURE BELOW STRUCTURE, 14'-6" FEET
- 5. INSTALL POWER CORD DROP FOR VEHICLE CHARGING. SEE DETAIL ON DRAWING E-500. VERIFY FINAL LOCATION WITH OWNER AND ACTUAL VEHICLE POWER CONNECTION LOCATION PRIOR TO INSTALLATION.
- 3/4" CONDUIT TO CORRESPONDING MECHANICAL UINT. BOX, CONDUIT, AND CONDUCTORS TO BE PROVIDED BY ELECTRICAL CONTRACTOR. LEAVE 12" SLACK AT BOX AND MECHANICAL UNIT. MECHANICAL CONTRACTOR TO MAKE FINAL CONNECTIONS. COORDINATE BOX SIZE AND QUANTITY
- EQUIPMENT. COORDINATE PLUG TYPE WITH EQUIPMENT SUBMITTED PRIOR TO INSTALLATION. VERIFY LOCATION PRIOR TO INSTALLATION.
- INSTALL HEAT TRACE THERMOSTAT ON RIGID CONDUIT 12" ABOVE ROOF. NVENT AMC-1A OR EQUAL.
- 9. INSTALL 20 FEET OF SELF REGULATING HEAT TRACE NVENT RAYCHEM GM-2X OR EQUAL IN DOWNSPOUT BELOW THIS ROOF DRAIN. LOOP HEAT TRACE OUT OF BOTTOM OF DOWN
- 10. 3/4"C 2#10, 1#10G FOR HEAT TRACE BRANCH CIRCUIT.
- 12. ACS PANEL. SEE TECHNOLOGY DRAWINGS.



Location: CORRIDOR 205

Supply From: ALA

MECHANICAL POWER PLAN - ROLLING ASSETS

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



A.I.C. Rating: 10KA

Mains Type: MLO

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

	Location: 0 Supply From: L Mounting: F Enclosure: 7	.DP Recess					Volts: Phases: Wires:		e			Main	s Type	g: 22KA e: MLO g: 225 A	
Note	s:														
СКТ	Γ Circuit Description	CKT Note	Trip	Poles	A		В		С		Poles	Trip	CKT Note		
1	LTG - WEST BAYS 201,202,203		20 A	1	498 VA	680 VA					1	20 A		OVERHEAD DOOR - BAY 201	2
3	LTG - EAST BAYS 209,210 AND		20 A	1			819 VA	680 VA			1	20 A		OVERHEAD DOOR - BAY 202	4
5	Spare		20 A	1					0 VA	680 VA	1	20 A		OVERHEAD DOOR - BAY 203	(
7	CORD DROP - BAY 201		20 A	1	500 VA	680 VA					1	20 A		OVERHEAD DOOR - BAY 209	8
9	CORD DROP - BAY 201		20 A	1			500 VA	680 VA			1	20 A		OVERHEAD DOOR - BAY 210	1
11	CORD DROP - BAY 202		20 A	1					500 VA	720 VA	1	20 A		REC - APP BAY 209-210 S WALL	1
13	CORD DROP - BAY 202		20 A	1	500 VA	720 VA					1	20 A		REC - APP BAY 209-210 N WALL	1
15	CORD DROP - BAY 203		20 A	1			500 VA	180 VA			1	20 A		REC - APP BAY 201-203 N WALL	1
17	CORD DROP - BAY 203		20 A	1					500 VA	180 VA	1	20 A		REC - APP BAY 201-203 S WALL	1
19	CORD DROP - BAY 209		20 A	1	500 VA	0 VA					1	20 A		Spare	2
21	CORD DROP - BAY 209		20 A	1			500 VA	0 VA			1	20 A		Spare	2
23	CORD DROP - BAY 210		20 A	1					500 VA	0 VA	1	20 A		Spare	2
25	CORD DROP - BAY 210		20 A	1	500 VA	0 VA					1	20 A		Spare	2
27	REC - ARMORER 204		20 A	1			180 VA	0 VA			1	20 A		Spare	2
29	REC - ARMORER 204		20 A	1					180 VA	0 VA	1	20 A		Spare	3
31	REC - DRYING ROOM 208		20 A	1	180 VA	0 VA					1	20 A		Spare	3
33	REC - DRYING ROOM 208		20 A	1			180 VA	0 VA			1	20 A		Spare	3
35	REC - DRYING ROOM 208		20 A	1					180 VA	0 VA	1	20 A		Spare	3
37	REC - DRYING ROOM 208		20 A	1	180 VA	4383 VA					3	100 A		PANEL 'ALB'	3
39	REC - CORR 205, STOR 206, BAY		20 A	1			180 VA	6633 VA							4
41	REC - TOILET ROOM 207		20 A	1					180 VA	3806 VA					4
			Total	Load:	932	9321 VA		11031 VA		7426 VA					
	Total Amps: 80 A) A	94 A 62 A				<u>د</u>							

Mounting: Recessed Enclosure: Type 1							Wires: 4						Mains Rating: 100 A					
lote	s: FEP BREAKER																	
KT.	Circuit Description		Trip	Poles	A		В		С		Poles	Trip	CKT Note		СКТ			
	Spare		20 A	1	0 VA	696 VA					1	20 A		GAS UNIT HEATER GUH-A1	2			
	REC - EXTERIOR WEST		20 A	1			180 VA	696 VA			1	20 A		GAS UNIT HEATER GUH-A2	4			
5	REC - EXTERIOR SOUTHWEST		20 A	1					180 VA	696 VA	1	20 A		GAS UNIT HEATER GUH-A3	6			
7	REC - EXTERIOR SOUTHWEST		20 A	1	180 VA	500 VA					1	20 A		FURNACE F-A	8			
)	REC - EXTERIOR SOUTHEAST		20 A	1			180 VA	2250 VA			2	30 A		WATER HEATER WH-A	10			
1	REC - EXTERIOR SOUTHEAST		20 A	1					180 VA	2250 VA					12			
3	REC - EXTERIOR EAST		20 A	1	180 VA	1727 VA					2	20 A		CONDENSING UNIT CU-A	14			
5	ACCESS CONTROL SYSTEM STG		20 A	1			500 VA	1727 VA							16			
7	NETWORK ENCLOSURE		20 A	1					500 VA						18			
9	HEAT TRACE	1	30 A	2	1100 VA										20			
1							1100 VA								22			
3	Spare		20 A	1					0 VA						24			
5	Spare		20 A	1	0 VA										26			
7	Spare		20 A	1			0 VA								28			
9	Spare		20 A	1					0 VA						30			
				Total Load: 4383 VA Total Amps: 37 A				3 VA 5 A	3806 VA 32 A									
ege	nd:																	

Volts: 120/208 Wye

Phases: 3

Boise, ID 83709 208.384.0585 645 West 25th Street Idaho Falls, ID 83402 208.523.2862 www.musgrovepa.com PROJECT NO. 24-091

ABOVE FINISHED FLOOR

4. ELECTRICAL CONTRACTOR SHALL MAKE ALL LOW VOLTAGE AND LINE VOLTAGE CONNECTIONS FOR DOOR OPERATOR, SAFETY SENSOR, AND CONTROL SWITCHES.

OF CONDUCTORS.

7. PROVIDE AND INSTALL NEMA 5-15 PLUG TO MATCH

SPOUT 1 FOOT AND LOOP BACK UP DOWN SPOUT 2 FEET.

11. WALL MOUNTED NETWORK ENCLOSURE. SEE TECHNOLOGY DRAWINGS.

13. EXHAUST FAN CONTROLLED THROUGH BATTERY MANAGEMENT SYSTEM (BMS), COORDINATE WITH MECHANICAL DRAWINGS FOR INSTALLATION AND OPERATIONS REQUIREMENT.

ROOF MECHANICAL POWER PLAN - ROLLING ASSETS

DPW 22511 ISP

FACILITY

9#

ISP NEW DISTRICT # 1155 FOOTE DRIVE IDAHO FALLS, IDAHO 83402

REVISIONS

PROJECT NO. 21034 DATE: NOVEMBER 2024 DRAWN BY: DH/AH

DRAWING NO.:

CHECKED BY:

MNB