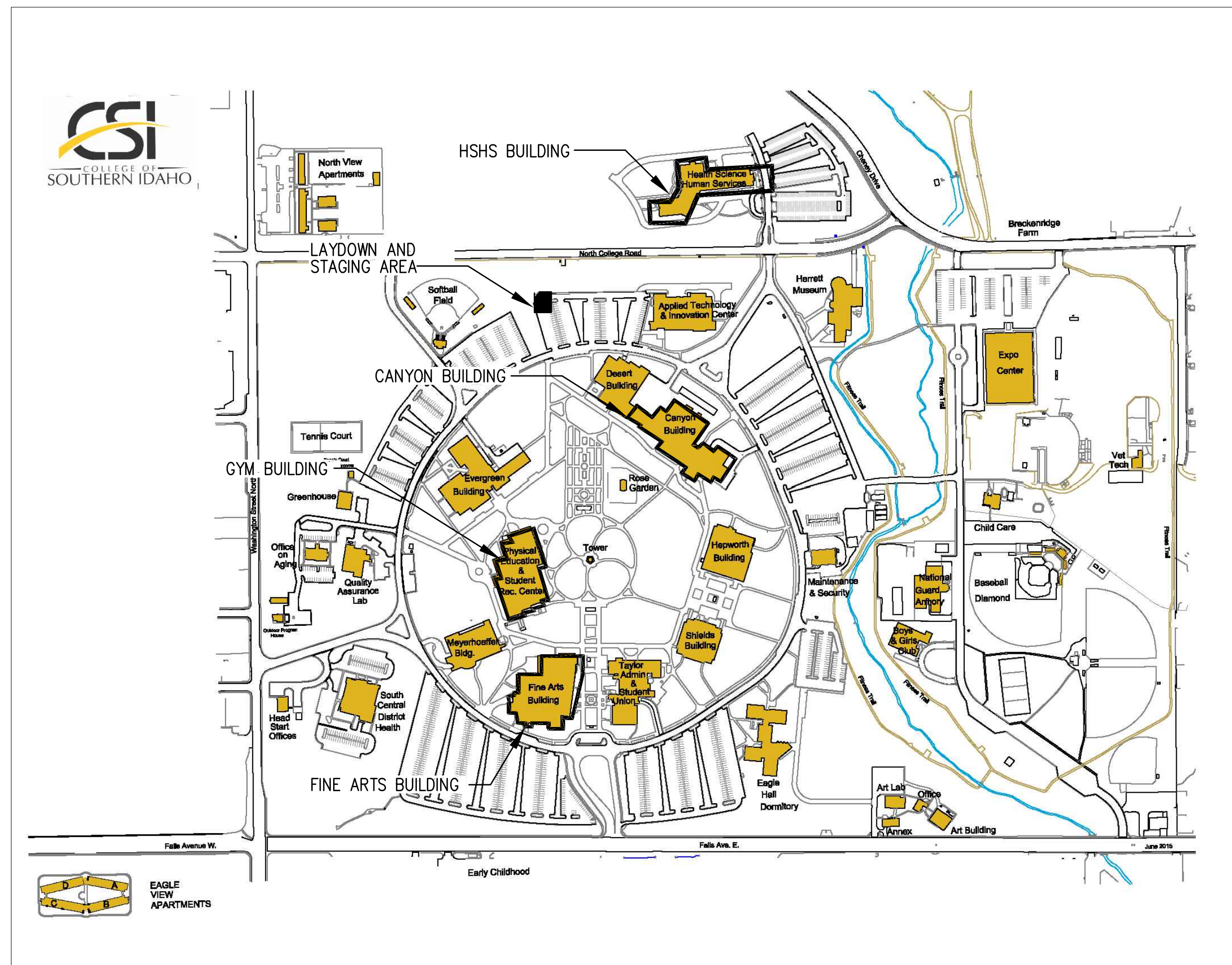
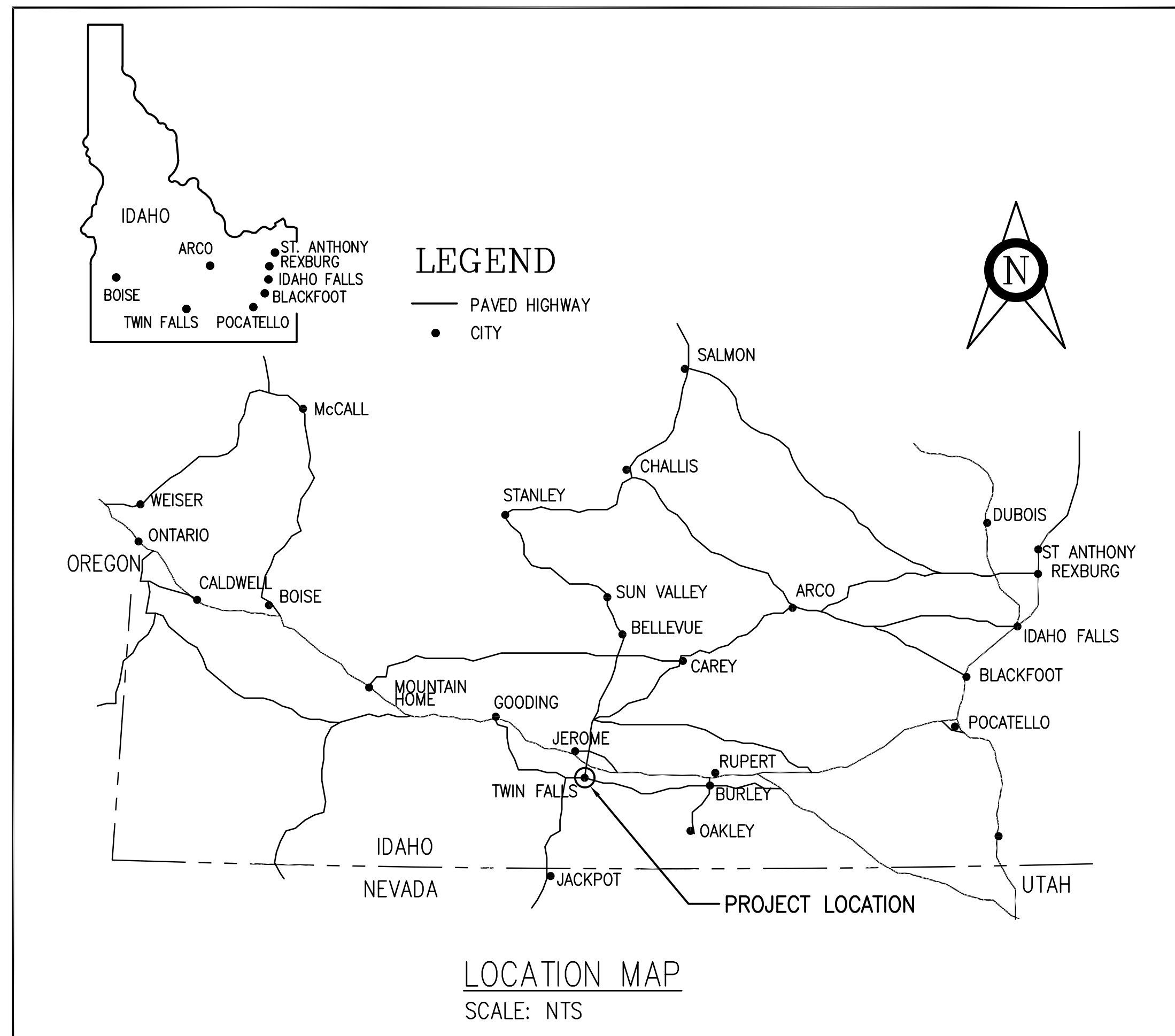


DPW PROJECT 19107 CSI: ENTRY ACCESS CONTROLS PHASE 2 COLLEGE OF SOUTHERN IDAHO TWIN FALLS, ID



LIST OF DRAWINGS	
T1.0	ELECTRICAL TITLE SHEET
T1.1	ELECTRICAL LEGENDS SHEET & FIBER MAP
CANYON BUILDING (ALTERNATE #1)	
A100	CANYON BUILDING DOOR REPLACEMENT PLAN
E2.1	ACCESS CONTROL PLAN
E2.2	ACCESS CONTROL PLAN
E2.3	IT ROOM 122F DATA RACK
E2.4	SECURITY CAMERA PLAN

CODES	
INTERNATIONAL BUILDING CODE	- 2018 OF IDAHO
EXISTING INTERNATIONAL BUILDING CODE	- 2020
IDAHO ENERGY CONSERVATION CODE	- 2018 OF IDAHO
NATIONAL ELECTRIC CODE	- 2017 OF IDAHO ← 2023 NEC

Fiber optic wiring to comply with NEC 770.

Fire penetrations thru walls, floors or ceilings per NEC 300.21

Plan Review Note
These plans have been reviewed for code compliance based on the submitted documents and plan sheets, and have been found, to be, substantially code compliant, all other code compliance requirements shall be completed through field inspections, verifications, and approvals by the field building inspector.

See Plan Review notes: The plan review notes shall always be attached to the stamped approved plans and documents. These are part of the plans and shall be a permanent record with the plans. Inspection shall not take place without a complete set of the Idaho Division of Occupational and Professional Licenses (IDOPL) plan review notes and approved, stamped plans on site.

Construction Safeguards
Construction safeguards shall be required for any and all demolition and or construction to ensure public safety.
Required exits, existing structural elements, fire protection devices and sanitary safeguards shall be maintained at all times during alterations, repairs or additions to any building or structure.
All applicable construction safeguards from chapter 31 and 33 shall be in place and maintained while any demolition or construction activities are being undertaken.

Sprinkler Note
In tenant renovations and remodels, the installation, deletion, or movement of any walls may affect the sprinkler performance. A sprinkler evaluation by a licensed sprinkler contractor should be made to ensure that any modification to the sprinkler system is warranted. Any alteration deletions or additions to the system shall be by a licensed sprinkler contractor and be approved by the Fire Marshal through plan review and inspection.

DESIGN PROFESSIONAL CONTACT
MUSGROVE ENGINEERING P.A.
MATTHEW BRADLEY P.E.
645 WEST 25TH STREET
IDAHO FALLS ID 83404
208-523-2862

AGENCY CONTACT
COLLEGE OF SOUTHERN IDAHO
THEO SCHUT
315 FALLS AVE
TWIN FALLS ID 83401
208-732-6610

OWNER CONTACT
IDAHO DIVISION OF PUBLIC WORKS
JOHN B. PARHAM
502 N 4TH ST
BOISE ID 83702
208-332-1909

- PROJECT GENERAL NOTES:**
- ALL BUILDINGS ON CSI CAMPUS ARE TO REMAIN 100% OWNER OCCUPIED. BUILDING EXITING AND SECURITY SHALL BE MAINTAINED DURING CONSTRUCTION.
 - ACCESS CONTROL SYSTEM AND SECURITY CAMERA SYSTEM SHALL OPERATE ON EXISTING DARK FIBER AS INSTALLED ON CSI CAMPUS. FIELD VERIFY EXISTING DARK FIBER SYSTEM PRIOR TO BID TO VERIFY FUNCTIONALITY AND FIBER OPTIC TYPE.

Penetrations Note
It is the responsibility of the design professional, contractor, and or builder to notify the building department of any alteration, addition, or removal of any building component, that is not in the scope of this approved plan and permit, whether structural, or not, as a modification of plans, for review and inspection.
Any penetrations, whether a membrane penetration or through penetration of any horizontal assemblies, smoke assemblies, fire-resistance-rated wall assemblies, and fire-resistance-rated floor, and or ceiling assemblies must be protected and inspected if penetrated.
The provisions of chapter 7, of the 2018 IBC shall govern the materials and methods of construction used to protect duct penetrations, through penetrations and membrane penetrations of rated assemblies. A building permit for the inspection of such alterations, penetrations and protections shall be made, and building inspections called for approval.

CONSTRUCTION APPROVAL BY RESPONSIBLE CHIEF OFFICER OF INSTITUTION OR AGENCY (IDAHO CODE 67-5710)

This project incorporates the required program elements within the funding limitations authorized, and authorize the Division of Public Works to proceed with bidding of the project, if acceptable bids are received, I will approve awarding a contract and construction of the facilities in accordance with the plans and specifications.

Approval: Approved

Name or Role	Signature Authority	Date
Agency - Signature Authority	J.P. Hester	Apr 23 2024 09:28 PM MST
Project Manager	J.P. Hester	Apr 23 2024 09:28 PM MST
Project Manager - Designer	J.P. Hester	Apr 23 2024 09:28 PM MST
DPW Administrator	J.P. Hester	Apr 23 2024 09:28 PM MST

NO.	REVISIONS	DATE

MUSGROVE ENGINEERING P.A.
25th Street, Twin Falls, ID 83404
208-523-2862
www.musgrovepa.com

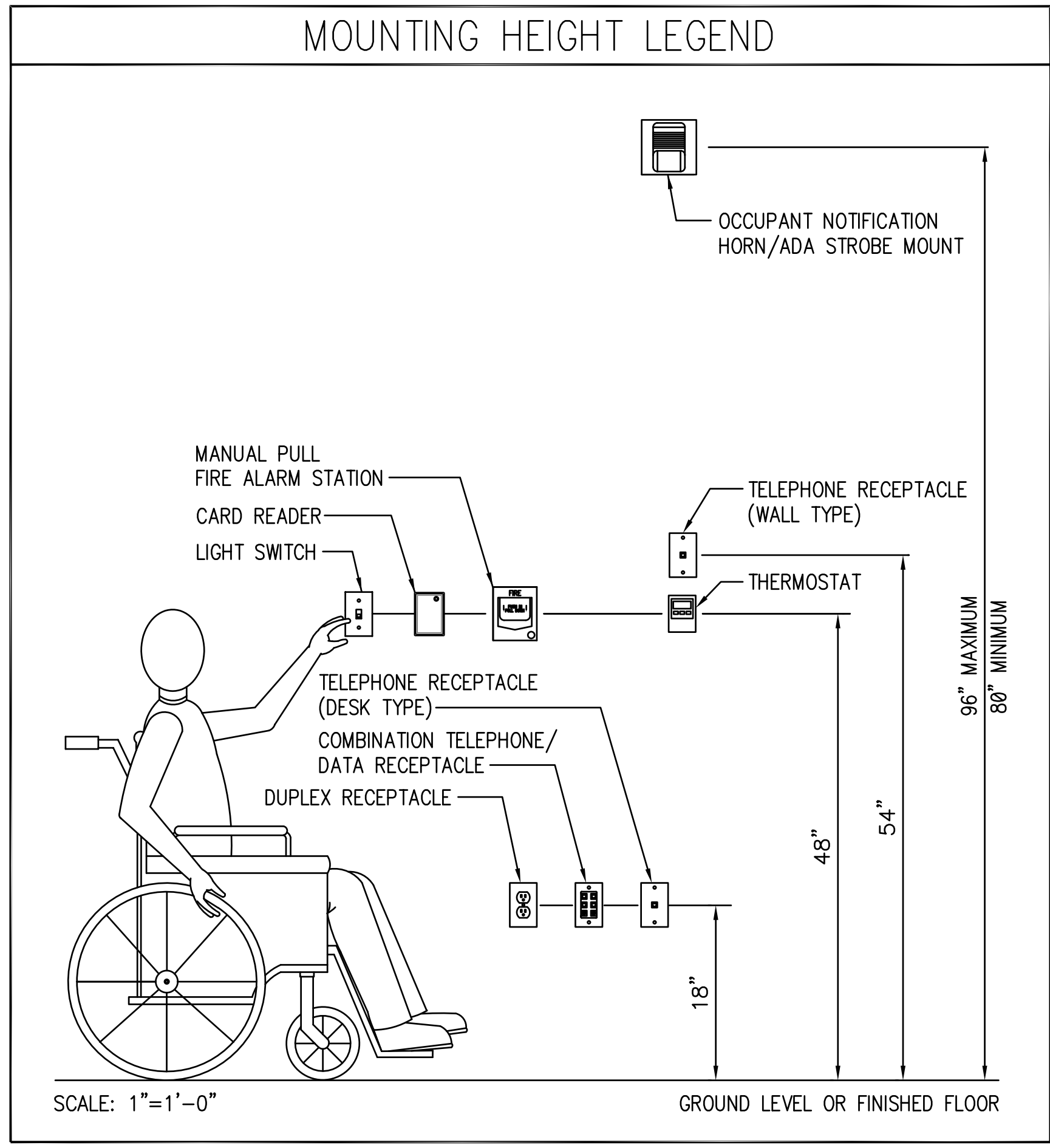
REGISTERED PROFESSIONAL ENGINEER
13299
7/10/2024
MATT HEW N. BRADLEY
STATE OF IDAHO

MTI
OVER 40 YEARS OF EXCELLENCE

DPW PROJECT 19107
CSI: ENTRY ACCESS CONTROLS, PHASE II
COLLEGE OF SOUTHERN IDAHO
TWIN FALLS, ID

PROJECT	B18-112
DRAWN	DBH
CHECKED	MNB
DATE	JULY 2024
SCALE	AS SHOWN
SHEET	

T1.0



ABBREVIATIONS

A	AMPERE(S)
AL	ALUMINUM
AIC	AMPERE INTERRUPTING CAPACITY
AWG	AMERICAN WIRE GAUGE
BC	BARE COPPER
C	CONDUIT
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CT	CURRENT TRANSFORMER
CU	COPPER
DISC	DISCONNECT
DWG	DRAWING
EMT	ELECTRICAL METALLIC TUBING
HZ	FREQUENCY IN CYCLES PER SECOND
F	FUSE
FS	FUSIBLE SWITCH
GEN	GENERATOR
GFI	GROUND FAULT INTERRUPTER
GND	GROUND
HP	HORSEPOWER
HPS	HIGH PRESSURE SODIUM
IMC	INTERMEDIATE METALLIC CONDUIT
INC	INCANDESCENT
KV	KILOVOLT
KVA	KILOWATT VOLT AMPS
KW	KILOWATT(S)
KCMIL	THOUSAND CIRCULAR MIL(S)
LX	LATCH BOLT MONITORING
MCA	MINIMUM CIRCUIT AMPS
MCC	MOTOR CONTROL CENTER
MLO	MAIN LUG ONLY
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NEC	NATIONAL ELECTRIC CODE
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
PNL	PANEL
PVC	POLYVINYL CHLORIDE
QEL	MOTORIZED PUSH PAD HARDWARE
RGS	RIGID GALVANIZED STEEL
RX	REQUEST TO EXIT
SWBD	SWITCHBOARD
XMFR	TRANSFORMER
TYP	TYPICAL
UG	UNDERGROUND
UNO	UNLESS NOTED OTHERWISE
UPS	UNINTERRUPTED POWER SYSTEM
V	VOLT(S)
VA	VOLTAMP(S)
W	WATT(S)
WP	WEATHER PROOF

DATA/COMMUNICATIONS LEGEND

◀#	DATA JACK, +18" UNLESS NOTED OTHERWISE # INDICATES QUANTITY OF STRUCTURED CABLES TERMINATING ON RJ45 JACK(S) AT FACEPLATE.
◀#	DATA/COMM QUANTITY OF STRUCTURED CABLES TERMINATING ON RJ45 JACK(S) AT FACEPLATE.
◀#	COMMUNICATIONS JACK, +18" UNLESS NOTED OTHERWISE # INDICATES QUANTITY OF STRUCTURED CABLES TERMINATING ON RJ45 JACK(S) AT FACEPLATE.
⊙	ROUGH-IN JUNCTION BOX AT +18", UNLESS NOTED OTHERWISE (ROUGH IN ONLY, NO CABLES)
-W-	SURFACE RACEWAY
⊕	DATA/COMM/POWER FLOOR BOX
⊕	19" 4 POST NETWORK RACK
⊕	19" 2 POST NETWORK RACK
⊕	WALL MOUNTED NETWORK RACK

NOTE: ALL SYMBOLS MAY NOT BE USED ON THIS PROJECT

SECURITY LEGEND

◻	BULLET CAMERA 1 GRAY CAT6 CABLE
c	- CEILING MOUNT
w	- WALL MOUNT
WP	- WEATHERPROOF
◻	DOME CAMERA 1 GRAY CAT6 CABLE
c	- CEILING MOUNT
w	- WALL MOUNT
WP	- WEATHERPROOF
☀	PANORAMIC CAMERA 1 GRAY CAT6 CABLE
c	- CEILING MOUNT
⊕	CARD READER
⊕	ELECTRIC STRIKE - SURFACE
⊕	ELECTRIC STRIKE - RECESSED IN FRAME
⊕	ELECTRIC CRASH BAR
⊕	DOOR CONTACT
⊕	ENERGY TRANSFER HINGE
⊕	ENERGY POWER TRANSFER
⊕	WIRELESS DOOR CONTACT
⊕	MOTION SENSOR REQUEST TO EXIT
⊕	REQUEST TO EXIT
⊕	PANIC BUTTON
⊕	WIRELESS HANDLE SET
⊕	HANDLE SET
⊕	POWER SUPPLY
⊕	ADA ACTUATOR BUTTON
⊕	AUTOMATIC DOOR OPENER

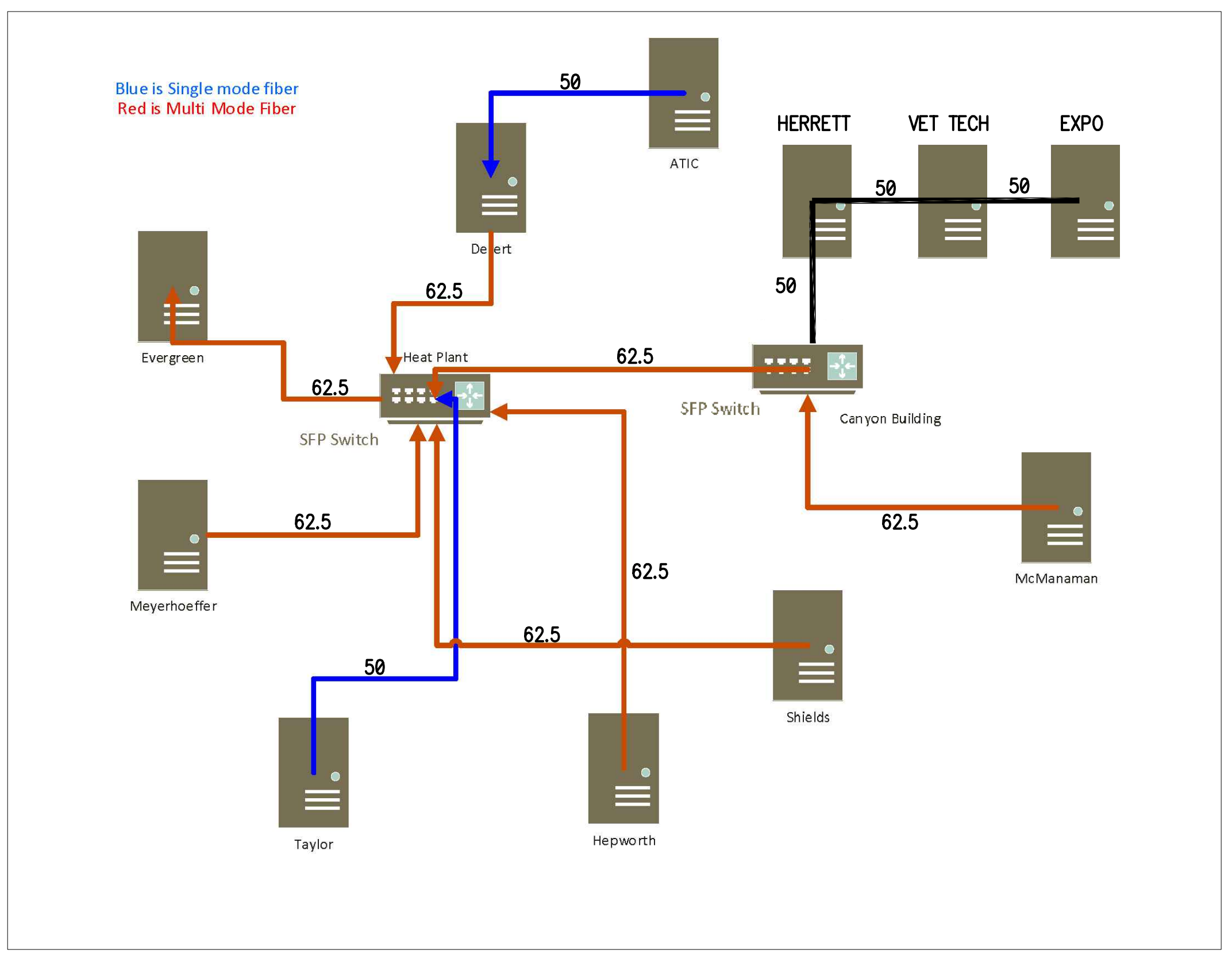
NOTE: ALL SYMBOLS MAY NOT BE USED ON THIS PROJECT

POWER LEGEND

⊕	MANUAL MOTOR STARTER SWITCH
⊕	TIMECLOCK
⊕	CONTACTOR
⊕	IRRIGATION CONTROL PANEL
⊕	DISCONNECT SWITCH POLES, AMPS, AND NEMA ENCLOSURE TYPE AS NOTED
⊕	FUSED DISCONNECT SWITCH POLES, AMPS, NEMA ENCLOSURE TYPE, AND FUSE SIZE AS NOTED
⊕	THERMOSTAT, AT +48 INCHES
⊕	MOTOR F INDICATES FAN (FRACTIONAL HORSEPOWER) # INDICATES MOTOR SIZE (IN HORSEPOWER)
⊕	JUNCTION BOX
⊕	RECESSED AUDIO SPEAKER
⊕	VOLUME CONTROL, AT +48 INCHES
-W-	ELECTRICAL PANEL
-W-	SURFACE RACEWAY
⊕	DUPLX RECEPTACLE AT +18 INCHES UNLESS NOTED OTHERWISE
⊕	GFI GROUND FAULT INTERRUPTER C MOUNTED ON CEILING SPD SURGE SUPPRESSION WP IN-USE WEATHERPROOF RATED COVER WITH WEATHER RESISTANT GFI RECEPTACLE
⊕	DOUBLE DUPLX RECEPTACLE AT +18 INCHES UNLESS NOTED OTHERWISE
⊕	GFI GROUND FAULT INTERRUPTER C MOUNTED ON CEILING SPD SURGE SUPPRESSION WP IN-USE WEATHERPROOF RATED COVER WITH WEATHER RESISTANT GFI RECEPTACLE
⊕	DATA/COMM/POWER FLOOR BOX
⊕	RECESSED ENTERTAINMENT BOX
⊕	CARD READER BOX
⊕	TELEVISION DUPLX RECEPTACLE AND CABLE JUNCTION BOX LOCATION
⊕	30A, 250V SPECIAL PURPOSE RECEPTACLE VERIFY NEMA PLUG TYPE REQUIRED PRIOR TO INSTALLATION
⊕	50A, 250V SPECIAL PURPOSE RECEPTACLE VERIFY NEMA PLUG TYPE REQUIRED PRIOR TO INSTALLATION

NOTE: ALL SYMBOLS MAY NOT BE USED ON THIS PROJECT

All reach ranges shall be as per the 2009 ANSI A117.1.



NO.	DATE	REVISIONS

PROFESSIONAL ENGINEER
REGISTERED IN THE STATE OF IDAHO
13299
7/10/2024
MATT HEW N. BRADLEY

MUSGROVE ENGINEERING, P.A.
2340 W. 24th Street, Suite 100
Twin Falls, ID 83430
208.384.0355
idahofiber@musgrove.com
www.musgrove.com

ME

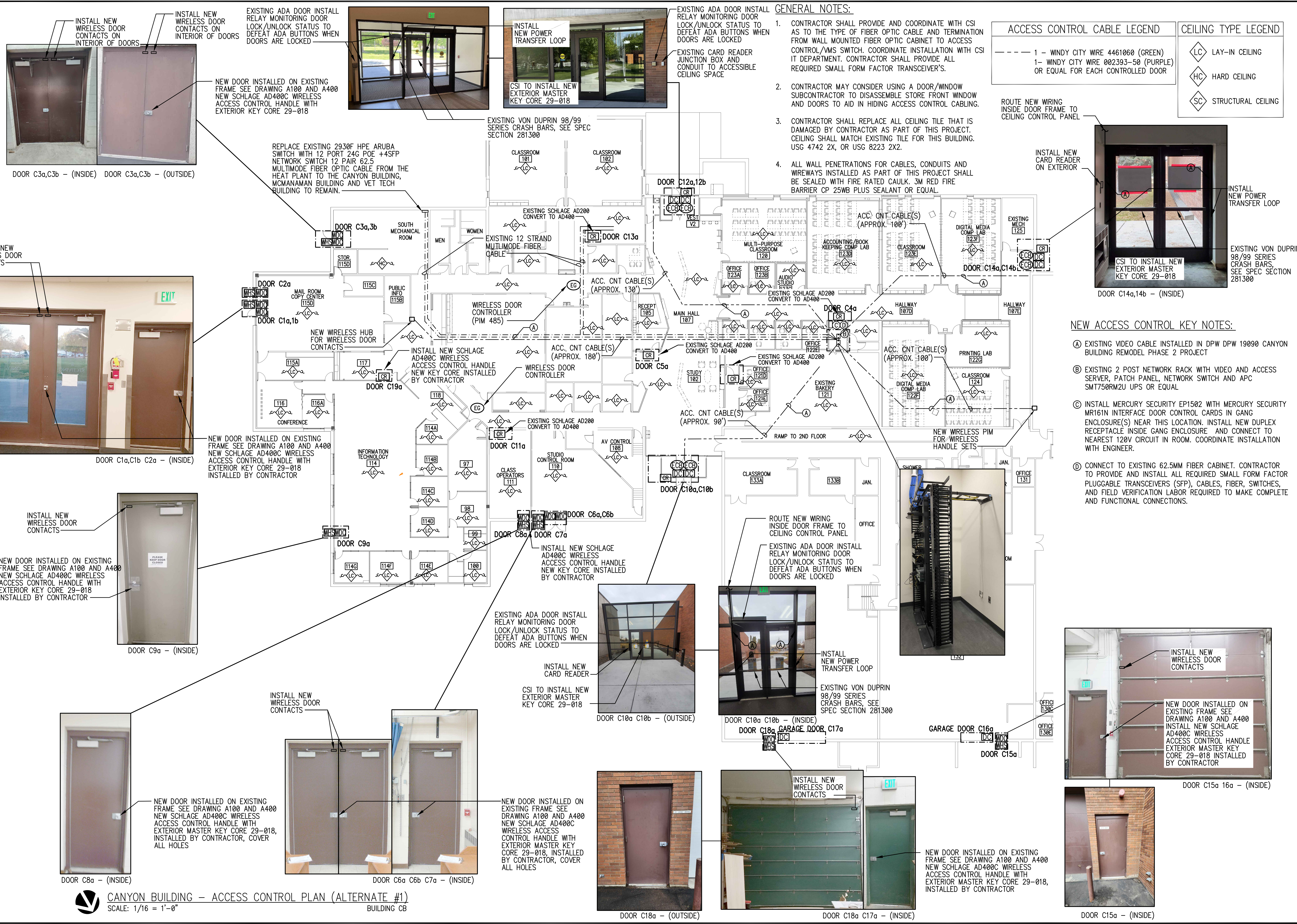
OVER 40 YEARS OF EXCELLENCE

DPW PROJECT 19107
 CSI: ENTRY ACCESS CONTROLS, PHASE II
 COLLEGE OF SOUTHERN IDAHO
 TWIN FALLS, ID

PROJECT	B18-112
DRAWN	DBH
CHECKED	MNB
DATE	JULY 2024
SCALE	AS SHOWN
SHEET	

T1.1

Approved
 State of Idaho
 Department of Labor
 Division of Occupational Safety and Health
 1000 S. Broadway, Suite 200
 Boise, Idaho 83724
 (208) 333-3333
 www.id.gov/dosh



INSTALL NEW WIRELESS DOOR CONTACTS ON INTERIOR OF DOORS
 INSTALL NEW WIRELESS DOOR CONTACTS ON INTERIOR OF DOORS
 NEW DOOR INSTALLED ON EXISTING FRAME SEE DRAWING A100 AND A400 NEW SCHLAGE AD400C WIRELESS ACCESS CONTROL HANDLE WITH EXTERIOR KEY CORE 29-018
 DOOR C3a,C3b - (INSIDE) DOOR C3a,C3b - (OUTSIDE)

EXISTING ADA DOOR INSTALL RELAY MONITORING DOOR LOCK/UNLOCK STATUS TO DEFEAT ADA BUTTONS WHEN DOORS ARE LOCKED
 REPLACE EXISTING 2930F HPE ARUBA SWITCH WITH 12 PORT 24G POE +4SFP NETWORK SWITCH 12 PAIR 62.5 MULTIMODE FIBER OPTIC CABLE FROM THE HEAT PLANT TO THE CANYON BUILDING, MCMANAMAN BUILDING AND VET TECH BUILDING TO REMAIN.
 DOOR C3a,3b

INSTALL NEW POWER TRANSFER LOOP
 CSI TO INSTALL NEW EXTERIOR MASTER KEY CORE 29-018
 EXISTING ADA DOOR INSTALL RELAY MONITORING DOOR LOCK/UNLOCK STATUS TO DEFEAT ADA BUTTONS WHEN DOORS ARE LOCKED
 EXISTING CARD READER JUNCTION BOX AND CONDUIT TO ACCESSIBLE CEILING SPACE
 CLASSROOM 101
 CLASSROOM 102

GENERAL NOTES:
 1. CONTRACTOR SHALL PROVIDE AND COORDINATE WITH CSI AS TO THE TYPE OF FIBER OPTIC CABLE AND TERMINATION FROM WALL MOUNTED FIBER OPTIC CABINET TO ACCESS CONTROL/VMS SWITCH. COORDINATE INSTALLATION WITH CSI IT DEPARTMENT. CONTRACTOR SHALL PROVIDE ALL REQUIRED SMALL FORM FACTOR TRANSCEIVERS.
 2. CONTRACTOR MAY CONSIDER USING A DOOR/WINDOW SUBCONTRACTOR TO DISASSEMBLE STORE FRONT WINDOW AND DOORS TO AID IN HIDING ACCESS CONTROL CABLING.
 3. CONTRACTOR SHALL REPLACE ALL CEILING TILE THAT IS DAMAGED BY CONTRACTOR AS PART OF THIS PROJECT. CEILING SHALL MATCH EXISTING TILE FOR THIS BUILDING. USG 4742 2X, OR USG 8223 2X2.
 4. ALL WALL PENETRATIONS FOR CABLES, CONDUITS AND WIREWAYS INSTALLED AS PART OF THIS PROJECT SHALL BE SEALED WITH FIRE RATED CAULK. 3M RED FIRE BARRIER CP 25WB PLUS SEALANT OR EQUAL.
 ACCESS CONTROL CABLE LEGEND
 --- 1 - WINDY CITY WIRE 4461060 (GREEN)
 --- 1 - WINDY CITY WIRE 002393-50 (PURPLE) OR EQUAL FOR EACH CONTROLLED DOOR
 CEILING TYPE LEGEND
 ◇ LC LAY-IN CEILING
 ◇ HC HARD CEILING
 ◇ SC STRUCTURAL CEILING
 ROUTE NEW WIRING INSIDE DOOR FRAME TO CEILING CONTROL PANEL
 INSTALL NEW CARD READER ON EXTERIOR
 DOOR C12a,12b
 DOOR C13a
 ACC. CNT CABLE(S) (APPROX. 100')

ACCESS CONTROL CABLE LEGEND
 --- 1 - WINDY CITY WIRE 4461060 (GREEN)
 --- 1 - WINDY CITY WIRE 002393-50 (PURPLE) OR EQUAL FOR EACH CONTROLLED DOOR
 CEILING TYPE LEGEND
 ◇ LC LAY-IN CEILING
 ◇ HC HARD CEILING
 ◇ SC STRUCTURAL CEILING
 ROUTE NEW WIRING INSIDE DOOR FRAME TO CEILING CONTROL PANEL
 INSTALL NEW CARD READER ON EXTERIOR
 DOOR C14a,14b - (INSIDE)
 INSTALL NEW POWER TRANSFER LOOP
 EXISTING VON DUPRIN 98/99 SERIES CRASH BARS, SEE SPEC SECTION 281300
 CSI TO INSTALL NEW EXTERIOR MASTER KEY CORE 29-018

INSTALL NEW WIRELESS DOOR CONTACTS
 DOOR C1a,1b
 DOOR C1a,1b C2a - (INSIDE)
 NEW DOOR INSTALLED ON EXISTING FRAME SEE DRAWING A100 AND A400 NEW SCHLAGE AD400C WIRELESS ACCESS CONTROL HANDLE WITH EXTERIOR KEY CORE 29-018 INSTALLED BY CONTRACTOR
 DOOR C1a,1b
 NEW WIRELESS HUB FOR WIRELESS DOOR CONTACTS
 DOOR C19a
 INSTALL NEW SCHLAGE AD400C WIRELESS ACCESS CONTROL HANDLE NEW KEY CORE INSTALLED BY CONTRACTOR
 WIRELESS DOOR CONTROLLER
 ACC. CNT CABLE(S) (APPROX. 180')

DOOR C2a
 MAIL ROOM COPY CENTER 115D
 PUBLIC INFO 115B
 SOUTH MECHANICAL ROOM
 MEN
 WOMEN
 EXISTING 12 STRAND MULTIMODE FIBER OPTIC CABLE
 EXISTING SCHLAGE AD200 CONVERT TO AD400
 DOOR C13a
 CLASSROOM 101
 CLASSROOM 102
 ACC. CNT CABLE(S) (APPROX. 130')

DOOR C5a
 RECEIPT 105
 MAIN HALL 107
 EXISTING SCHLAGE AD200 CONVERT TO AD400
 DOOR C4a
 ACCOUNTING/BOOK KEEPING COMP LAB 1230
 CLASSROOM 1230
 ACC. CNT CABLE(S) (APPROX. 100')

DOOR C10a,10b
 AV CONTROL 108
 STUDIO CONTROL ROOM 110
 CLASS OPERATORS 111
 DOOR C6a,C6b
 DOOR C7a
 CLASSROOM 133A
 JAN.
 OFFICE 131
 NEW WIRELESS PIM FOR WIRELESS HANDLE SETS
 PRINTING LAB 122G
 CLASSROOM 124
 DIGITAL MEDIA COMP LAB 122F
 ACC. CNT CABLE(S) (APPROX. 100')

DOOR C14a,14b - (INSIDE)
 EXISTING VON DUPRIN 98/99 SERIES CRASH BARS, SEE SPEC SECTION 281300
 CSI TO INSTALL NEW EXTERIOR MASTER KEY CORE 29-018
 DOOR C14a,14b - (INSIDE)
 INSTALL NEW POWER TRANSFER LOOP
 EXISTING VON DUPRIN 98/99 SERIES CRASH BARS, SEE SPEC SECTION 281300
 CSI TO INSTALL NEW EXTERIOR MASTER KEY CORE 29-018
 DOOR C10a,10b - (INSIDE)
 DOOR C18a,18b - (INSIDE)
 GARAGE DOOR C17a
 DOOR C15a
 GARAGE DOOR C16a
 DOOR C15a,16a - (INSIDE)
 INSTALL NEW WIRELESS DOOR CONTACTS
 NEW DOOR INSTALLED ON EXISTING FRAME SEE DRAWING A100 AND A400
 INSTALL NEW SCHLAGE AD400C WIRELESS ACCESS CONTROL HANDLE WITH EXTERIOR MASTER KEY CORE 29-018 INSTALLED BY CONTRACTOR
 DOOR C15a,16a - (INSIDE)
 DOOR C15a - (INSIDE)

INSTALL NEW WIRELESS DOOR CONTACTS
 DOOR C9a - (INSIDE)
 NEW DOOR INSTALLED ON EXISTING FRAME SEE DRAWING A100 AND A400 NEW SCHLAGE AD400C WIRELESS ACCESS CONTROL HANDLE WITH EXTERIOR MASTER KEY CORE 29-018 INSTALLED BY CONTRACTOR
 DOOR C9a
 DOOR C8a - (INSIDE)
 DOOR C6a C6b C7a - (INSIDE)
 INSTALL NEW WIRELESS DOOR CONTACTS
 NEW DOOR INSTALLED ON EXISTING FRAME SEE DRAWING A100 AND A400 NEW SCHLAGE AD400C WIRELESS ACCESS CONTROL HANDLE WITH EXTERIOR MASTER KEY CORE 29-018, INSTALLED BY CONTRACTOR, COVER ALL HOLES
 DOOR C8a - (INSIDE)
 DOOR C6a C6b C7a - (INSIDE)
 NEW DOOR INSTALLED ON EXISTING FRAME SEE DRAWING A100 AND A400 NEW SCHLAGE AD400C WIRELESS ACCESS CONTROL HANDLE WITH EXTERIOR MASTER KEY CORE 29-018, INSTALLED BY CONTRACTOR, COVER ALL HOLES
 DOOR C8a - (INSIDE)
 DOOR C6a C6b C7a - (INSIDE)
 DOOR C18a - (OUTSIDE)
 DOOR C18a C17a - (INSIDE)
 DOOR C15a - (INSIDE)

NEW ACCESS CONTROL KEY NOTES:
 (A) EXISTING VIDEO CABLE INSTALLED IN DPW DPW 19090 CANYON BUILDING REMODEL PHASE 2 PROJECT
 (B) EXISTING 2 POST NETWORK RACK WITH VIDEO AND ACCESS SERVER, PATCH PANEL, NETWORK SWITCH AND APC SMT750RM2U UPS OR EQUAL
 (C) INSTALL MERCURY SECURITY EP1502 WITH MERCURY SECURITY MR161N INTERFACE DOOR CONTROL CARDS IN GANG ENCLOSURE(S) NEAR THIS LOCATION. INSTALL NEW DUPLEX RECEPTACLE INSIDE GANG ENCLOSURE. AND CONNECT TO NEAREST 120V CIRCUIT IN ROOM. COORDINATE INSTALLATION WITH ENGINEER.
 (D) CONNECT TO EXISTING 62.5MM FIBER CABINET. CONTRACTOR TO PROVIDE AND INSTALL ALL REQUIRED SMALL FORM FACTOR PLUGGABLE TRANSCEIVERS (SFP), CABLES, FIBER, SWITCHES, AND FIELD VERIFICATION LABOR REQUIRED TO MAKE COMPLETE AND FUNCTIONAL CONNECTIONS.

NO.	REVISIONS	DATE

PROFESSIONAL ENGINEER
 REGISTERED IN THE STATE OF IDAHO
 No. 13299
 7/10/2024
 MATT HEW N. BRADLEY

MUSGROVE ENGINEERING, P.A.
 234 S. Main, ID 83702
 208.388.4055
 445 West 2nd Street
 Idaho Falls, ID 83402
 www.musgrove.com

OVER 40 YEARS OF EXCELLENCE

DPW PROJECT 19107
 CSI: ENTRY ACCESS CONTROLS, PHASE II
 COLLEGE OF SOUTHERN IDAHO
 TWIN FALLS, ID

PROJECT	B18-112
DRAWN	DBH
CHECKED	MNB
DATE	JULY 2024
SCALE	AS SHOWN
SHEET	E2.1

HARDWARE GROUP NO. C1:

FOR USE ON DOOR #(S):

C1b	C20a	C21a	C23a	C24a	C25a
C27a	C28a	C30a			
QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR	
1	EA	WIRELESS DOOR CONTACT AND RECEIVER	INOVONICS EN1210W PROVIDED BY SECURITY SYSTEM INSTALLER.	WHITE	INN
		INOVONICS EN4204R RECEIVERS, QUANTITY AS REQUIRED FOR FUNCTIONAL SYSTEM			
		CSI STANDARDIZED PRODUCT			

HARDWARE GROUP NO. C2:

FOR USE ON DOOR #(S):

C6a, b					
QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR	
2	EA	WIRELESS DOOR CONTACT AND RECEIVER	INOVONICS EN1210W PROVIDED BY SECURITY SYSTEM INSTALLER.	WHITE	INN
		INOVONICS EN4204R RECEIVERS, QUANTITY AS REQUIRED FOR FUNCTIONAL SYSTEM			
		CSI STANDARDIZED PRODUCT			

HARDWARE GROUP NO. C3:

FOR USE ON DOOR #(S):

C1a	C2a	C3a	C7a	C8a	C9a
C15a	C18a				
QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR	
1	EA	WIRELESS ELECTRONIC HANDLE SET, CYLINDER LOCK, CLASSROOM, MULTI-TECH, RHODES LEVER, SATIN CHROME FINISH.	AD-400-CY-50-MT-RHO,626 (LEVER PREP AND CONFIGURATION AS REQ) BATTERY POWERED	626	SCE
		CSI STANDARDIZED PRODUCT			
1	EA	PIM	PIM400-1501		SCE
		CSI STANDARDIZED PRODUCT			
1	EA	WIRELESS DOOR CONTACT AND RECEIVER	INOVONICS EN1210W PROVIDED BY SECURITY SYSTEM INSTALLER.	WHITE	INN
		INOVONICS EN4204R RECEIVERS, QUANTITY AS REQUIRED FOR FUNCTIONAL SYSTEM			
		CSI STANDARDIZED PRODUCT			

HARDWARE GROUP NO. C4:

FOR USE ON DOOR #(S):

C4a	C5a	C11a	C13a		
QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR	
1	EA	STAND ALONE TO WIRELESS ELECTRONIC HANDLE CONVERSION KIT	AD-COMM400P BATTERY POWERED		SCE
		CSI STANDARDIZED PRODUCT			
1	EA	PIM	PIM400-1501		SCE
		CSI STANDARDIZED PRODUCT			

HARDWARE GROUP NO. C5:

FOR USE ON DOOR #(S):

C10a, b	C12a, b	C14a, b			
QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR	
2	EA	ELECTRIFIED LATCH RETRACTION DEVICE WITH BUILT IN REQUEST TO EXIT AND FIELD INSTALLED LATCH BOLT MONITOR KIT	MLRK1-VD + VOLMBKIT-ED		CAT
		CSI STANDARDIZED PRODUCT			
2	EA	POWER TRANSFER LOOP, BLACK END CAPS	SDC SECURITY PT-2	STAIN LESS STEEL	SDC
		CSI STANDARDIZED PRODUCT			
1	EA	MULTI-TECH READER	SCHLAGE MT11 12 VDC	BLACK	SCE
		CSI STANDARDIZED PRODUCT			
2	EA	WIRED DOOR CONTACT	ARITECH 1076CW-N PROVIDED BY SECURITY SYSTEM INSTALLER	WHITE	ARI
		CSI STANDARDIZED PRODUCT			

HARDWARE GROUP NO. C6:

FOR USE ON DOOR #(S):

C16a	C17a	C22a	C26a	C29a	C29b
C31a	C32a				
QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR	
1	EA	WIRED DOOR CONTACT DOOR TRACK MOUNTED	WBOX TECHNOLOGIES OE-DC4811	AL	WBX
		CSI STANDARDIZED PRODUCT			

HARDWARE GROUP NO. C7:

FOR USE ON DOOR #(S):

C19a					
QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR	
1	EA	WIRELESS ELECTRONIC HANDLE SET, CYLINDER LOCK, CLASSROOM, MULTI-TECH, RHODES LEVER, SATIN CHROME FINISH.	AD-400-CY-50-MT-RHO,626 (LEVER PREP AND CONFIGURATION AS REQ) BATTERY POWERED	626	SCE
		CSI STANDARDIZED PRODUCT			
1	EA	PIM	PIM400-1501		SCE
		CSI STANDARDIZED PRODUCT			

DOOR HARDWARE NOTES

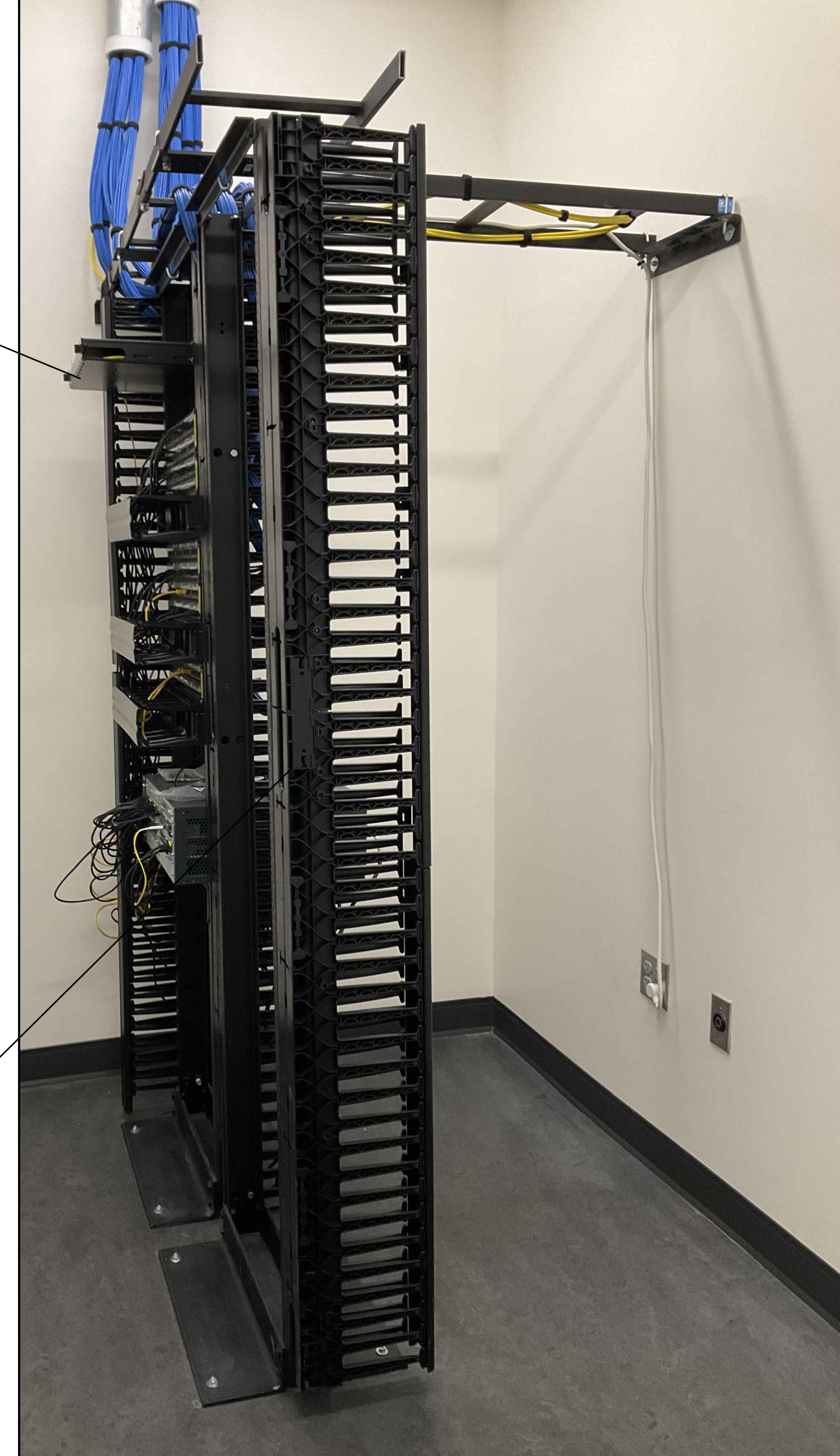
- INSTALLATION CONTRACTOR IS REQUIRED TO SCHEDULE A PROJECT DOOR HARDWARE WALK WITH INSTALLING CONTRACTORS SUPERINTENDENT, CSI PROJECT MANAGER, AND DESIGN PROFESSIONAL PRIOR TO ORDERING DOOR HARDWARE AND INSTALLATION. THE PURPOSE OF THIS DOOR HARDWARE WALK IS TO VERIFY THAT THE DOOR HARDWARE FITMENT IS CORRECT PRIOR TO ORDERING.

GENERAL NOTES:

- ALL WALL PENETRATIONS FOR CABLES, CONDUITS AND WIREWAYS INSTALLED AS PART OF THIS PROJECT SHALL BE SEALED WITH FIRE RATED CAULK. 3M RED FIRE BARRIER CP 25WB PLUS SEALANT OR EQUAL.

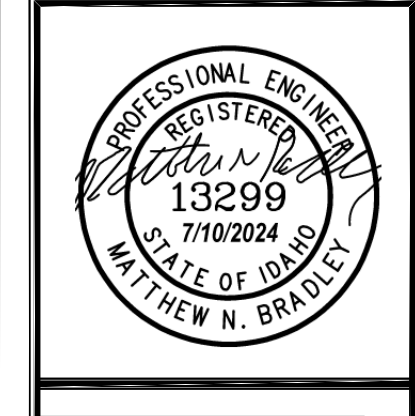
- NEW 2U SECURITY CAMERA NETWORK VIDEO RECORDER - NVR
 - NEW 1U PUNCH DOWN
 - NEW 1U NETWORK SWITCH
 - NEW 1U MANAGEMENT SPACE
 - NEW 2U UPS APC SMT750RM2U OR EQUAL
- PROVIDED AND INSTALLED BY SECURITY CONTRACTOR

FIBER PATCH PANEL. OPEN FIBER OPTIC CONNECTION. COORDINATE INSTALLATION WITH CSI IT DEPARTMENT. CONTRACTOR SHALL PROVIDE FIBER PATCH CABLE, AND SFP FOR ACCESS CONTROL NETWORK SWITCH. FIELD VERIFY FIBER OPTIC CABLE TYPE AND SFP REQUIREMENTS PRIOR TO ORDERING AND INSTALLATION.



IT ROOM 122F DATA RACK (ALTERNATE #1)

NO.	REVISIONS	DATE



MUSGROVE ENGINEERING, P.A.
 2345 W. 24th Street
 Twin Falls, ID 83430
 208.384.4055
 www.musgrovepa.com

REGISTERED PROFESSIONAL ENGINEER
 13299
 7/10/2024
 7/10/2026
 MATTHEW N. BRANDYET

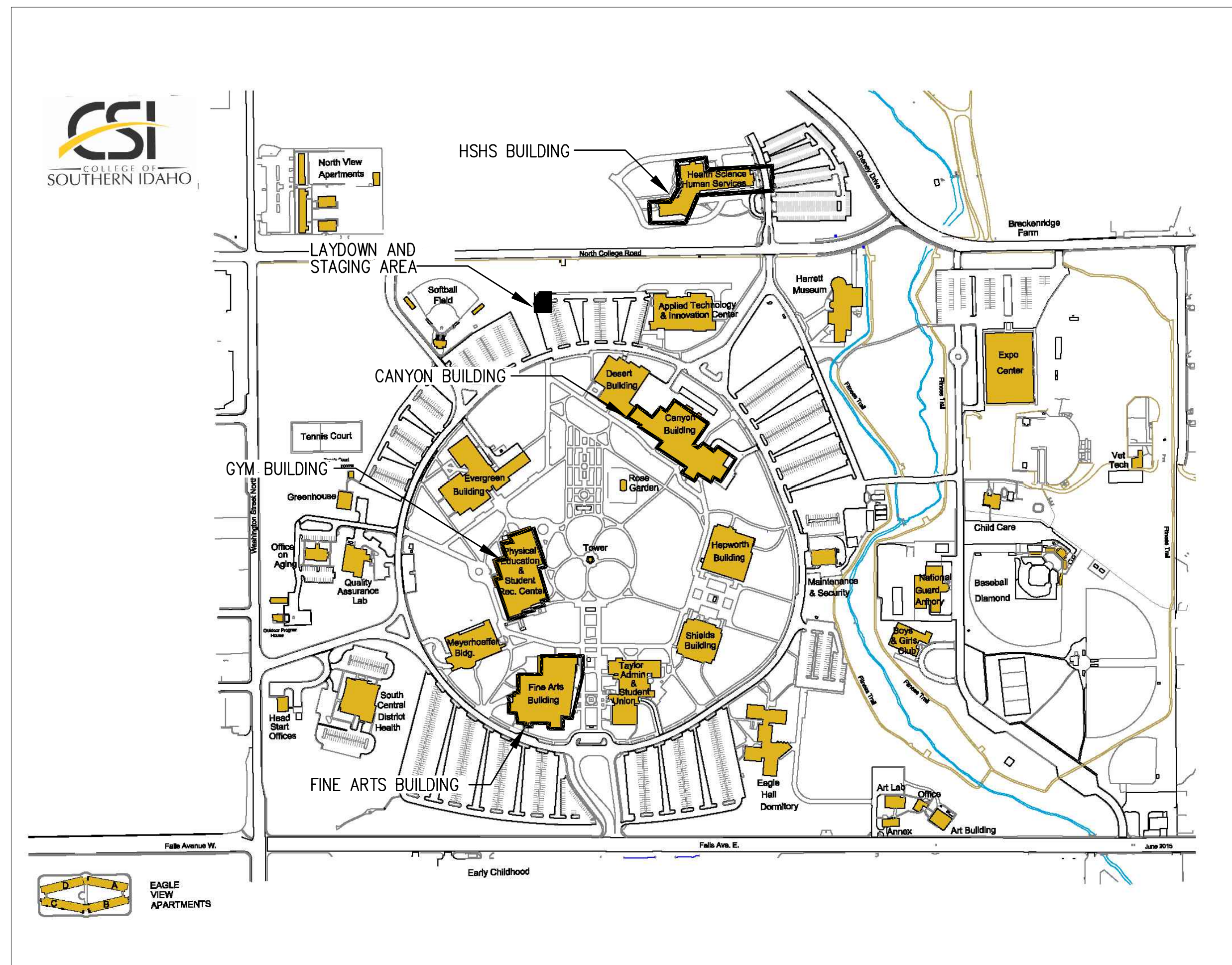
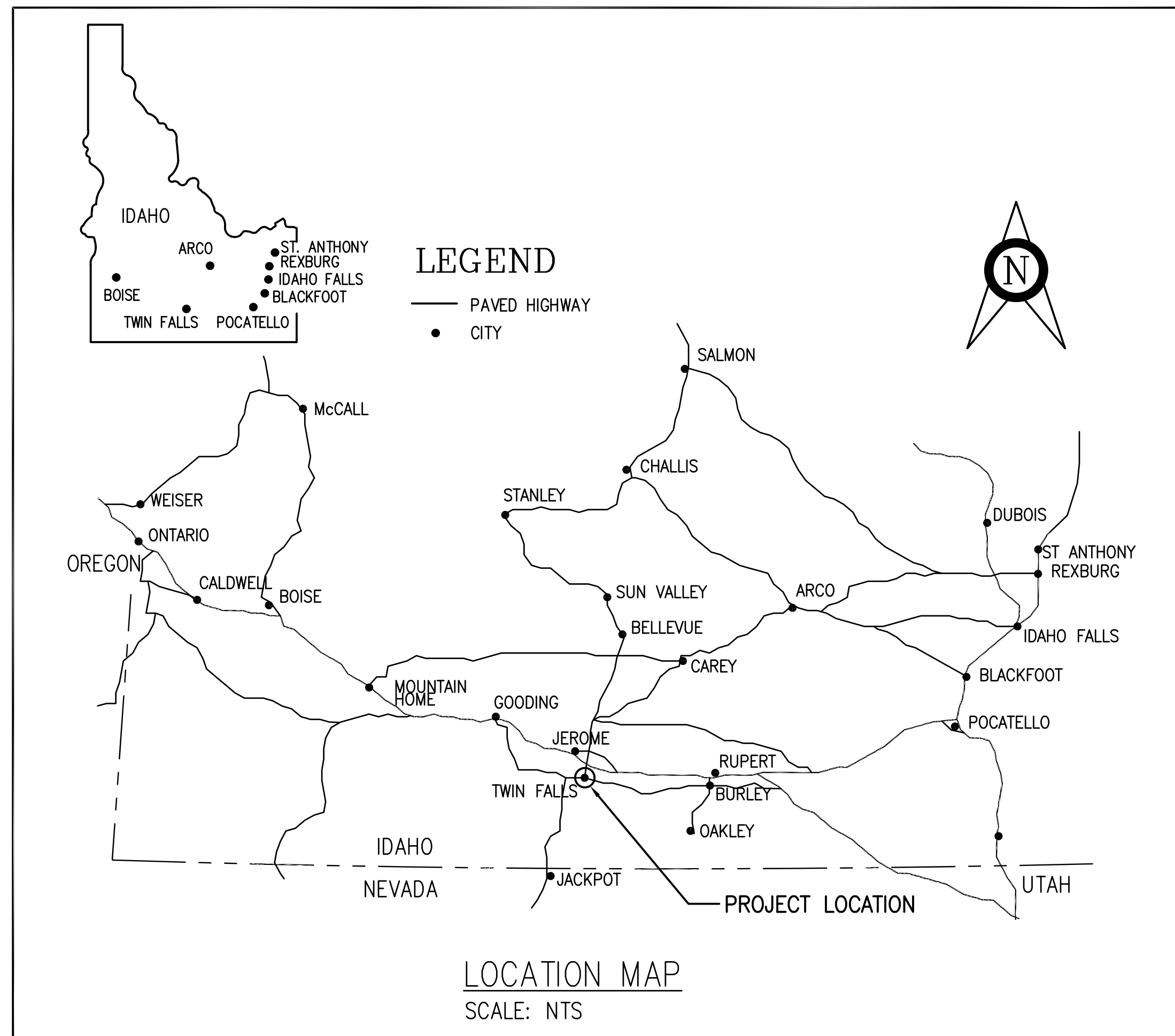
OVER 40 YEARS OF EXCELLENCE

DPW PROJECT 19107
CSI: ENTRY ACCESS CONTROLS, PHASE II
COLLEGE OF SOUTHERN IDAHO
TWIN FALLS, ID

PROJECT	B18-112
DRAWN	DBH
CHECKED	MNB
DATE	JULY 2024
SCALE	AS SHOWN
SHEET	

E2.3

DPW PROJECT 19107 CSI: ENTRY ACCESS CONTROLS PHASE 2 COLLEGE OF SOUTHERN IDAHO TWIN FALLS, ID



LIST OF DRAWINGS	
T1.0	ELECTRICAL TITLE SHEET
T1.1	ELECTRICAL LEGENDS SHEET & FIBER MAP
(BASE BID)	
HEPWORTH BUILDING	
E6.1	ACCESS CONTROL PLAN

CODES	
INTERNATIONAL BUILDING CODE - 2018 OF IDAHO	
EXISTING INTERNATIONAL BUILDING CODE - 2009 2018	
IDAHO ENERGY CONSERVATION CODE - 2018 OF IDAHO	
NATIONAL ELECTRIC CODE - 2017 OF IDAHO	← 2023 NEC

Plan Review Note
 These plans have been reviewed for code compliance based on the submitted documents and plan sheets, and have been found, to be substantially code compliant, all other code compliance requirements shall be completed through field inspections, verifications, and approvals by the field building inspector.

See Plan Review notes: The plan review notes shall always be attached to the stamped approved plans and documents. These are part of the plans and shall be a permanent record with the plans. Inspection shall not take place without a complete set of the Idaho Division of Occupational and Professional Licenses (IDOPL) plan review notes and approved, stamped plans on site.

Construction Safeguards
 Construction safeguards shall be required for any and all demolition and or construction to ensure public safety.
 Required exits, existing structural elements, fire protection devices and sanitary safeguards shall be maintained at all times during alterations, repairs or additions to any building or structure.
 All applicable construction safeguards from chapter 31 and 33 shall be in place and maintained while any demolition or construction activities are being undertaken.

Sprinkler Note
 In tenant renovations and remodels, the installation, deletion, or movement of any walls may affect the sprinkler performance. A sprinkler evaluation by a licensed sprinkler contractor should be made to ensure that any modification to the sprinkler system is warranted. Any alteration deletions or additions to the system shall be by a licensed sprinkler contractor and be approved by the Fire Marshal through plan review and inspection.

Penetrations Note
 It is the responsibility of the design professional, contractor, and or builder to notify the building department of any alteration, addition, or removal of any building component, that is not in the scope of this approved plan and permit, whether structural, or not, as a modification of plans, for review and inspection.
 Any penetrations, whether a membrane penetration or through penetration of any horizontal assemblies, smoke assemblies, fire-resistance-rated wall assemblies, and fire-resistance-rated floor, and or ceiling assemblies must be protected and inspected if penetrated.
 The provisions of chapter 7, of the 2018 IBC shall govern the materials and methods of construction used to protect duct penetrations, through penetrations and membrane penetrations of rated assemblies. A building permit for the inspection of such alterations, penetrations and protections shall be made, and building inspections called for approval.

DESIGN PROFESSIONAL CONTACT
 MUSGROVE ENGINEERING P.A.
 MATTHEW BRADLEY P.E.
 645 WEST 25TH STREET
 IDAHO FALLS ID 83404
 208-523-2862

AGENCY CONTACT
 COLLEGE OF SOUTHERN IDAHO
 THEO SCHUT
 315 FALLS AVE
 TWIN FALLS ID 83301
 208-732-6610

OWNER CONTACT
 IDAHO DIVISION OF PUBLIC WORKS
 JOHN B. PARHAM
 502 N 4TH ST
 BOISE ID 83702
 208-332-1909

- PROJECT GENERAL NOTES:**
- ALL BUILDINGS ON CSI CAMPUS ARE TO REMAIN 100% OWNER OCCUPIED. BUILDING EXITING AND SECURITY SHALL BE MAINTAINED DURING CONSTRUCTION.
 - ACCESS CONTROL SYSTEM AND SECURITY CAMERA SYSTEM SHALL OPERATE ON EXISTING DARK FIBER AS INSTALLED ON CSI CAMPUS. FIELD VERIFY EXISTING DARK FIBER SYSTEM PRIOR TO BID TO VERIFY FUNCTIONALITY AND FIBER OPTIC TYPE.

CONSTRUCTION APPROVAL BY RESPONSIBLE CHIEF OFFICER OF INSTITUTION OR AGENCY
 (IDAHO CODE 67-5710)

This project incorporates the required program elements within the funding limitations authorized, and authorize the Division of Public Works to proceed with bidding of the project. If acceptable bids are received, I will approve awarding a contract and construction of the facilities in accordance with the plans and specifications.

Approval: Approved

Name or Title	Approval
Agency - Signature Authority	Approved Apr 22 2024 09:29 PM MST
Project Manager	Approved Apr 22 2024 09:10 PM MST
Project Manager Senior	Approved May 11 2024 08:47 PM MST
DPW Administrator	Approved May 22 2024 01:09 AM MST

NO.	REVISIONS	DATE

PROFESSIONAL ENGINEER
 REGISTERED
 13299
 7/10/2024
 STATE OF IDAHO
 MATTHEW N. BRADLEY

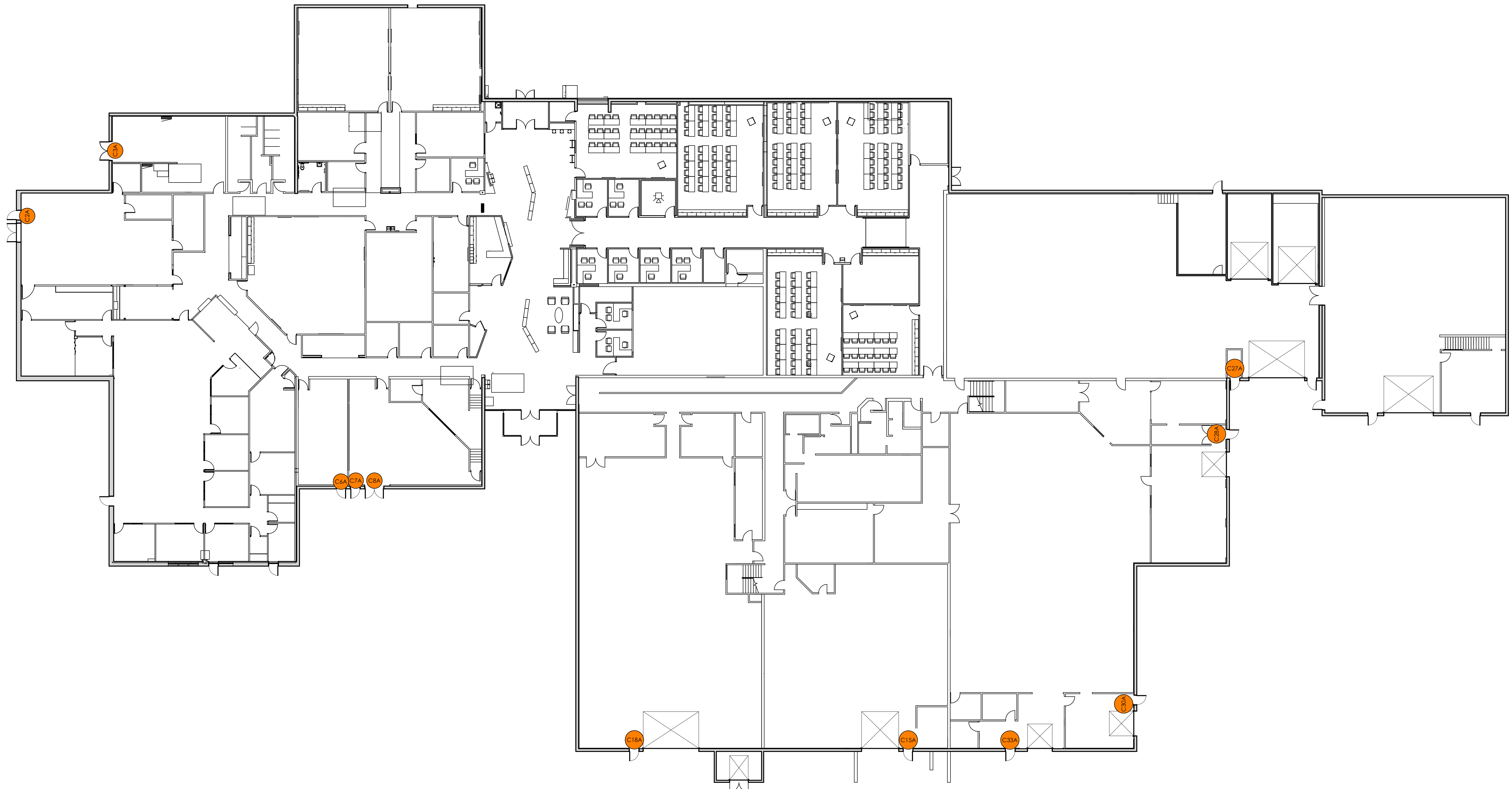
MUSGROVE ENGINEERING P.A.
 25th Street, Twin Falls, ID 83301
 208-523-2862
 645 West 25th Street, Idaho Falls, ID 83404
 www.musgrovepa.com

MTI
 OVER 40 YEARS OF EXCELLENCE

DPW PROJECT 19107
 CSI: ENTRY ACCESS CONTROLS, PHASE II
 COLLEGE OF SOUTHERN IDAHO
 TWIN FALLS, ID

PROJECT	B18-112
DRAWN	DBH
CHECKED	MNB
DATE	JULY 2024
SCALE	AS SHOWN
SHEET	

T1.0



CANYON BUILDING FLOOR PLAN

1
A100
SCALE: 1/16" = 1'-0"

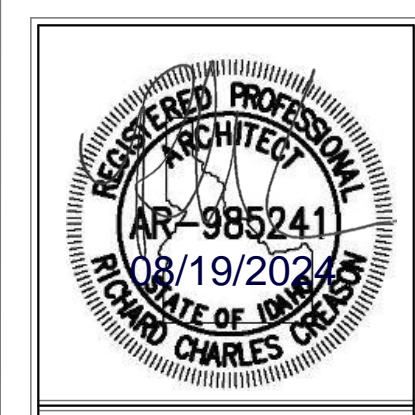
Myers ■ Anderson

• Architecture • Interior Design • Historic Preservation

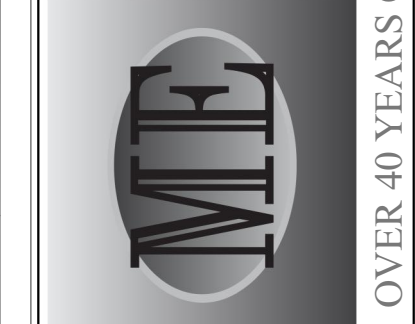
122 South Main Street • Pocatello, Idaho 83204 • Tel. (208) 232 - 3741 • Fax (208) 232 - 3782

AIA NCARB ASID

NO.	REV #	REVISIONS	DATE	BY/MDA



MUSGROVE ENGINEERING, P.A.
 234 S. Whisperwood Way
 Boise, ID 83709
 445 West 2500 Street
 Idaho Falls, ID 83402
 208.522.2862
 www.musgrovepa.com

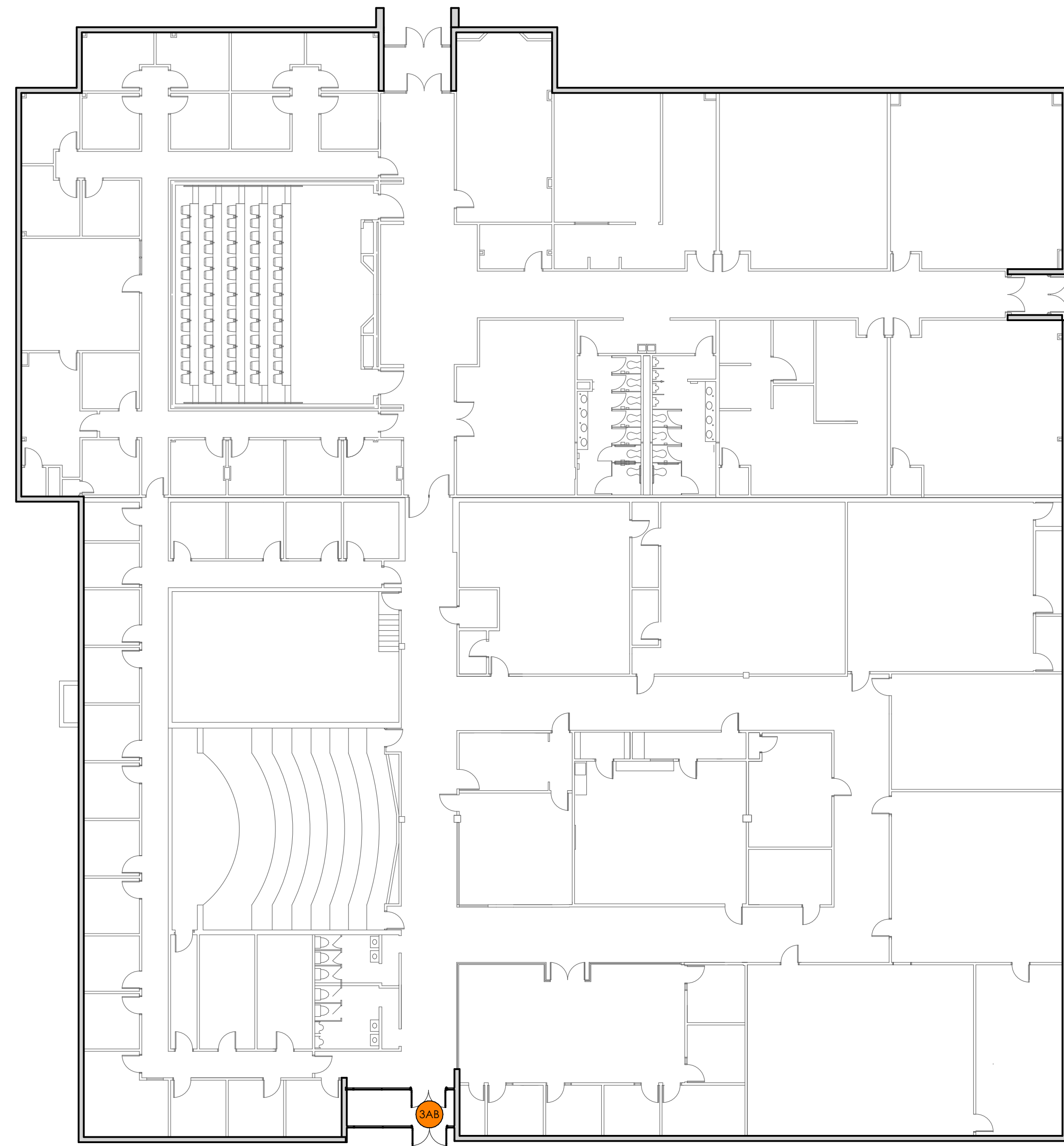


OVER 40 YEARS OF EXCELLENCE

**DPW PROJECT 19107
 CSI: ENTRY ACCESS CONTROLS, PHASE II
 COLLEGE OF SOUTHERN IDAHO
 TWIN FALLS, ID**

PROJECT	
DRAWN	
CHECKED	
DATE	FEB 2024
SCALE	
SHEET	

A100



1
A101

HEPWORTH FLOOR PLAN

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

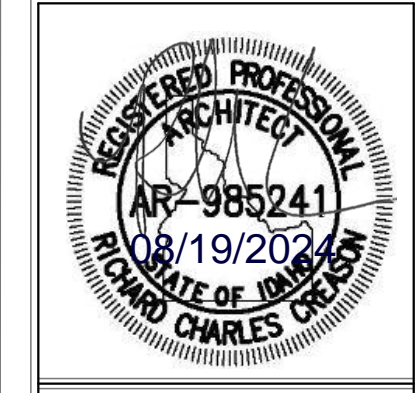
AIA NCARB ASID

Myers ■ Anderson

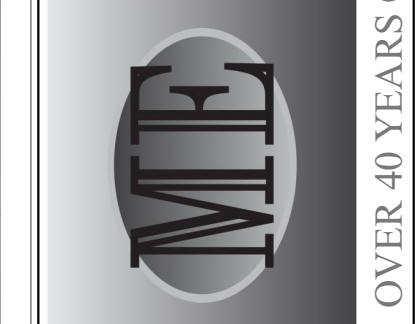
• Architecture • Interior Design • Historic Preservation

122 South Main Street • Pocatello, Idaho 83204 • Tel. (208) 232 - 3741 • Fax (208) 232 - 3782

NO.	#	REV	REVISIONS	DATE	
				YY	MM



MUSGROVE
ENGINEERING, P.A.
234 S. Whisperwood Way
Boise, ID 83709
445 West 2500 Street
Idaho Falls, ID 83402
208.522.2862
www.musgrovepa.com



**DPW PROJECT 19107
CSI: ENTRY ACCESS CONTROLS, PHASE II
COLLEGE OF SOUTHERN IDAHO
TWIN FALLS, ID**

PROJECT	
DRAWN	
CHECKED	
DATE	FEB 2024
SCALE	
SHEET	

A101

CANYON BUILDING DOOR SCHEDULE

DOOR #	DOOR TYPE	WIDTH	HEIGHT	DOOR		FRAME		THROAT	HINGES	LOCKS	HARDWARE			WEATHER STRIPPING	ACCESS CONTROL	DOOR SWEEP	THRESHOLD	EXIT DEVICE	PUSH/PULL	GLAZING	FIRE RATING	NOTES	DETAIL	DOOR #
				MATERIAL	FINISH	MATERIAL	FINISH				CLOSER	KICKPLATES	STOPS											
MAIN FLOOR																								
C2A	B	3'-0"	7'-0"	HM	H.M. PAINTED	E.T.R.	E.T.R. PAINTED	---	H1	---	C1	K1	---	WS1	AC-1	DS1	T1	---	---	---	---	1; 6; 7; 8	---	C2A
C3A	C	6'-0"	7'-8"	HM	H.M. PAINTED	E.T.R.	E.T.R. PAINTED	---	H1	---	C1	K1	---	WS1	AC-1	DS1	T1	---	---	---	---	1; 2; 3; 4; 5; 6; 7; 8	---	C3A
C6A	D	3'-0"	7'-8"	HM	H.M. PAINTED	E.T.R.	E.T.R. PAINTED	---	H1	---	C1	K1	---	WS1	AC-1	DS1	T1	---	---	---	---	1; 6; 7; 8	---	C6A
C7A	D	3'-0"	7'-8"	HM	H.M. PAINTED	E.T.R.	E.T.R. PAINTED	---	H1	---	C1	K1	---	WS1	AC-1	DS1	T1	---	---	---	---	1; 6; 7; 8	---	C7A
C8A	C	6'-0"	7'-8"	HM	H.M. PAINTED	E.T.R.	E.T.R. PAINTED	---	H1	---	C1	K1	---	WS1	AC-1	DS1	T1	---	---	---	---	1; 2; 3; 4; 5; 6; 7; 8	---	C8A
C15A	B	3'-0"	7'-0"	HM	H.M. PAINTED	E.T.R.	E.T.R. PAINTED	---	H1	---	C1	K1	---	WS1	AC-1	DS1	T1	---	---	---	---	1; 6; 7; 8	---	C15A
C18A	B	3'-0"	7'-0"	HM	H.M. PAINTED	E.T.R.	E.T.R. PAINTED	---	H1	---	C1	K1	---	WS1	AC-1	DS1	T1	---	---	---	---	1; 6; 7; 8	---	C18A
C27A	B	3'-0"	7'-0"	HM	H.M. PAINTED	E.T.R.	E.T.R. PAINTED	---	H1	---	C1	K1	---	WS1	AC-1	DS1	T1	---	---	---	---	1; 6; 7; 8	---	C27A
C28A	B	3'-0"	7'-0"	HM	H.M. PAINTED	E.T.R.	E.T.R. PAINTED	---	H1	---	C1	K1	---	WS1	AC-1	DS1	T1	---	---	---	---	1; 6; 7; 8	---	C28A
C30A	B	3'-0"	7'-0"	HM	H.M. PAINTED	E.T.R.	E.T.R. PAINTED	---	H1	---	C1	K1	---	WS1	AC-1	DS1	T1	---	---	---	---	1; 6; 7; 8	---	C30A
C33A	B	3'-0"	7'-0"	HM	H.M. PAINTED	E.T.R.	E.T.R. PAINTED	---	H1	---	C1	K1	---	WS1	AC-1	DS1	T1	---	---	---	---	1; 6; 7; 8	---	C33A

DOOR LEGEND

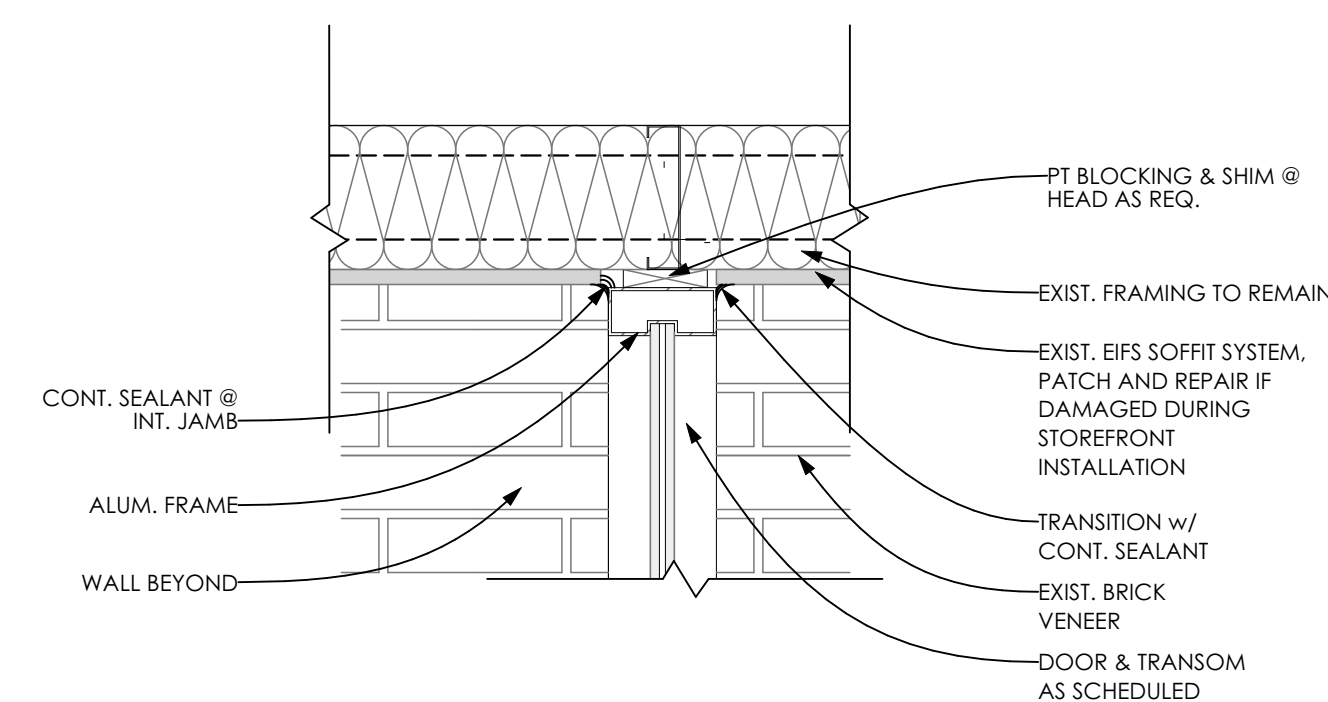
HINGES	
H1	GEARED CONTINUOUS HINGE XY SERIES US28 CLEAR ALUMINUM ANODIZED
H2	179 FULL MORTISE NRP
I	IVES STANLEY
EXIT DEVICE	
ED1	99N-OP-626 RIM DEVICE, LEVER HANDLE
ED2	99EO-626 RIM DEVICE, EXIT ONLY
V	VON DUPRIN
ACCESS CONTROL	
AC-1	AD-400-CY W/ EXTERIOR MASTER KEY CORE 29-018
AC-2	AD-200-CY (REFER ALSO TO NOTE #9)
S	SCHLAGE
CLOSER	
C1	4040XP-3049CNS
C2	4640
LCN	LCN
KICKPLATES	
K1	36" J100 DW-2"
Q	QUALITY
STOPS	
S1	W302 PT US26D
Q	QUALITY
WEATHER STRIPPING	
WS1	303CPK
PEMCO	PEMCO
SMOKE SEALS	
SS1	303CPK
PEMCO	PEMCO
DOOR SWEEP	
DS1	18042CP
PEMCO	PEMCO
THRESHOLD	
T1	PEMCO 172A
GLAZING	
G-1	1/4" PLATE GLASS, TEMPERED
G-2	1" INSULATED GLASS, TEMPERED

HEPWORTH BUILDING DOOR SCHEDULE

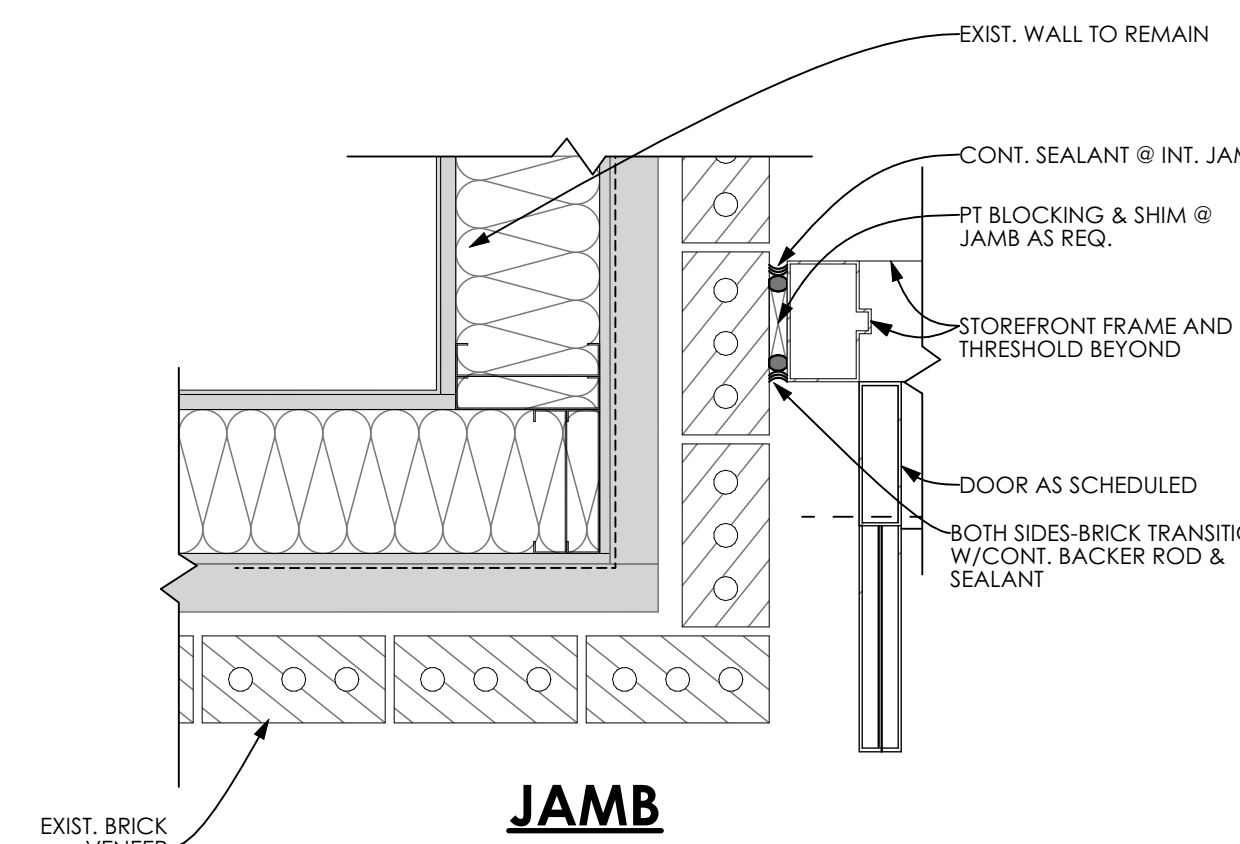
DOOR #	DOOR TYPE	WIDTH	HEIGHT	DOOR		FRAME		THROAT	HINGES	LOCKS	HARDWARE			WEATHER STRIPPING	ACCESS CONTROL	DOOR SWEEP	THRESHOLD	EXIT DEVICE	PUSH/PULL	GLAZING	FIRE RATING	NOTES	DETAIL	DOOR #
				MATERIAL	FINISH	MATERIAL	FINISH				CLOSER	KICKPLATES	STOPS											
MAIN FLOOR																								
I3AB	A	6'-0"	7'-0"	ALUM	FAC. FIN.	ALUM.	E.T.R. PAINTED	4-1/2"	H2	---	C1; C2	K1	S1	WS1	AC-2	DS1	T1	ED2	---	G2	---	1; 4; 8; 9; 10	1/A400	3AB

NOTES

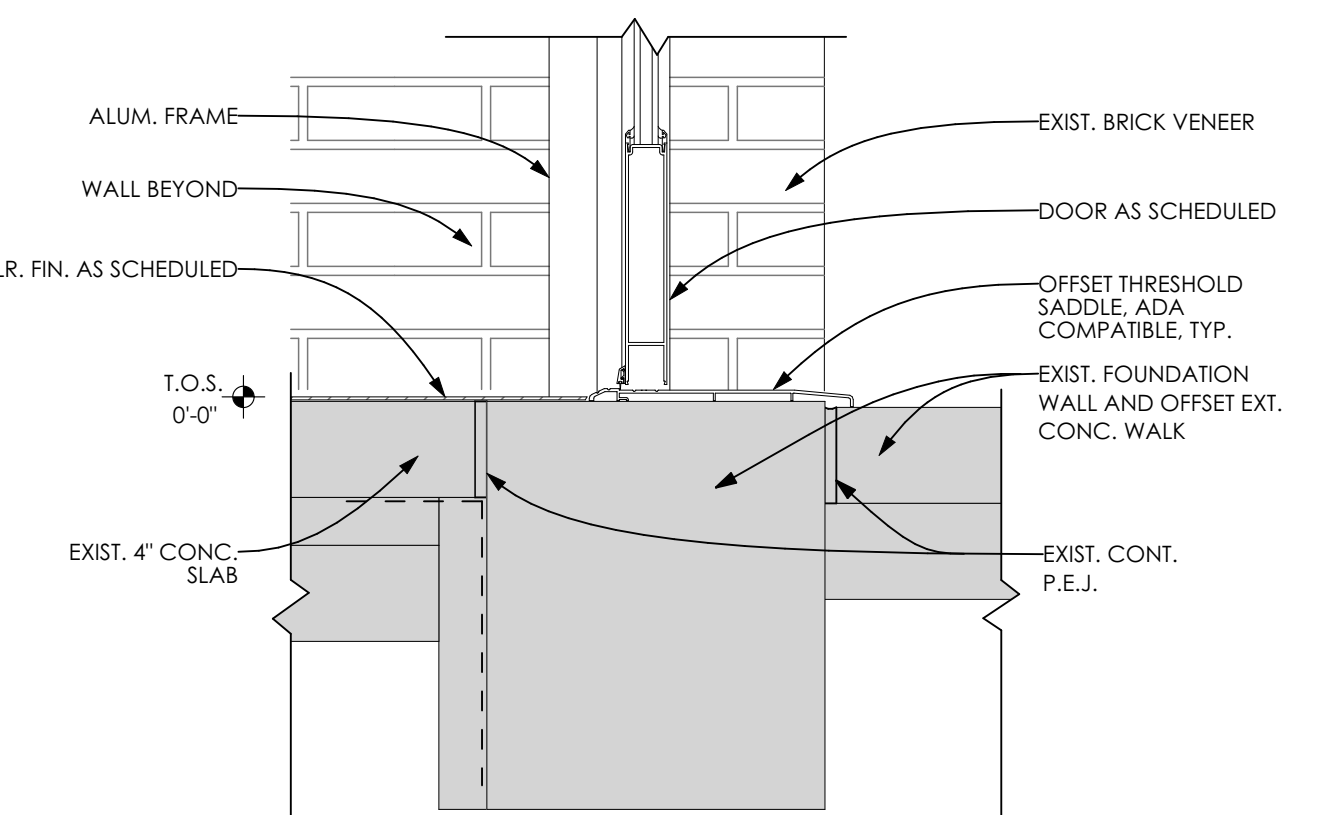
- HARDWARE BY DOOR SUPPLIER
- PROVIDE TOP & BOTTOM FLUSH BOLTS ON INACTIVE LEAF. PROVIDE RADIIUSED STRIKE ON INACTIVE LEAF.
- PROVIDE ACCESS CONTROL DEVICE ON ACTIVE LEAF ONLY. PROVIDE CLOSER ON ACTIVE LEAF ONLY. ALL OTHER HARDWARE CALLED OUT TO BE PROVIDED IN PAIRS
- PROVIDE HARDWARE IN PAIRS ON DOUBLE DOORS UNLESS OTHERWISE NOTED
- PROVIDE VERTICAL ASTRAGAL ON INACTIVE LEAF
- FIELD VERIFY EXISTING DOOR SLAB SIZE TO BE REPLACED PRIOR TO ORDERING NEW DOOR SLAB
- EXISTING HOLLOW METAL DOOR FRAME TO REMAIN AND BE REUSED. INSTALL NEW HOLLOW METAL DOOR SLAB WITH CONTINUOUS HINGE
- COORDINATE W/ ELECTRICAL DRAWINGS FOR ALL OTHER DOORS TO RECEIVE DOOR HARDWARE AND ACCESS CONTROL DEVICES
- PROVIDE LOCABLE REMOVABLE MULLION VON DUPRIN 5654 w/ CYLINDER & (2) 299 STRIKES
 - CRASH BARS SHALL RECEIVE:
 - COMMAND ACCESS: REQUEST TO EXIT - VDREXKIT-ED
 - COMMAND ACCESS: MOTORIZED LATCH RETRACTION - MLRKI-VD
 - SURFACE CLOSER: LCN 4040XP-3049CNS
 - ADA DOOR OPERATOR: LCN 4640
 - 1 ELECTRIC POWER TRANSFER ON EACH LEAF: VON DUPRIN EPT-10
 - PULLS ON EACH LEAF FROM STOREFRONT MANUFACTURER
- PROVIDE ADA DOOR OPERATOR: LCN 4640 ON SINGLE LEAF OF INTERIOR VESTIBULE STOREFRONT DOOR. COORDINATE OPERATION OF OPERATOR W/ EXTERIOR VESTIBULE OPERATOR



HEAD



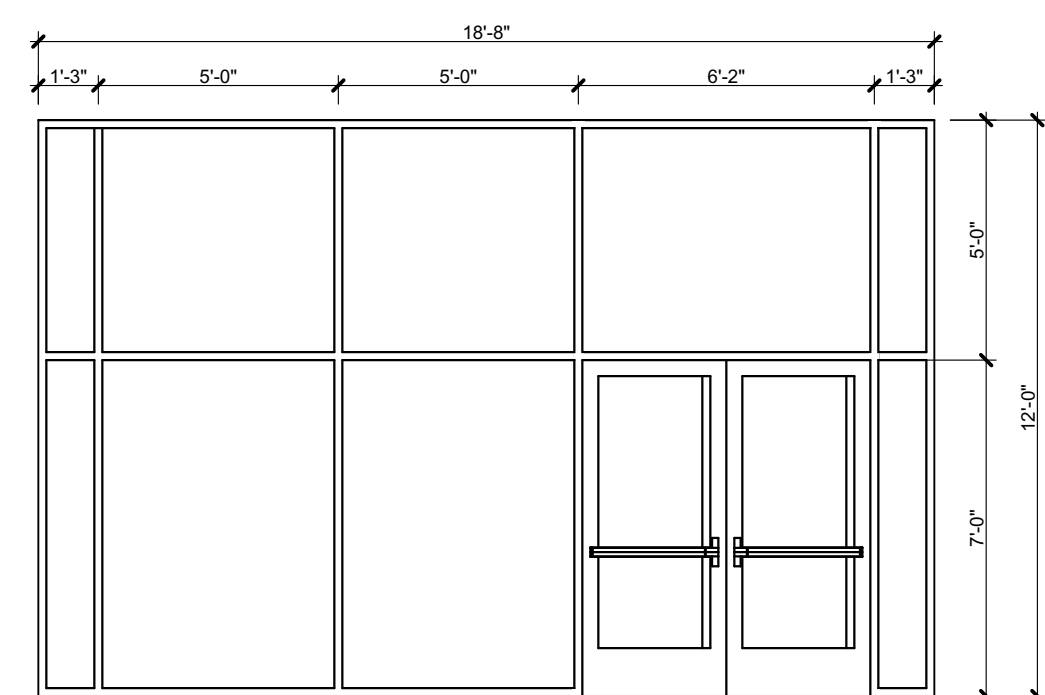
JAMB



THRESHOLD

STOREFRONT DETAIL

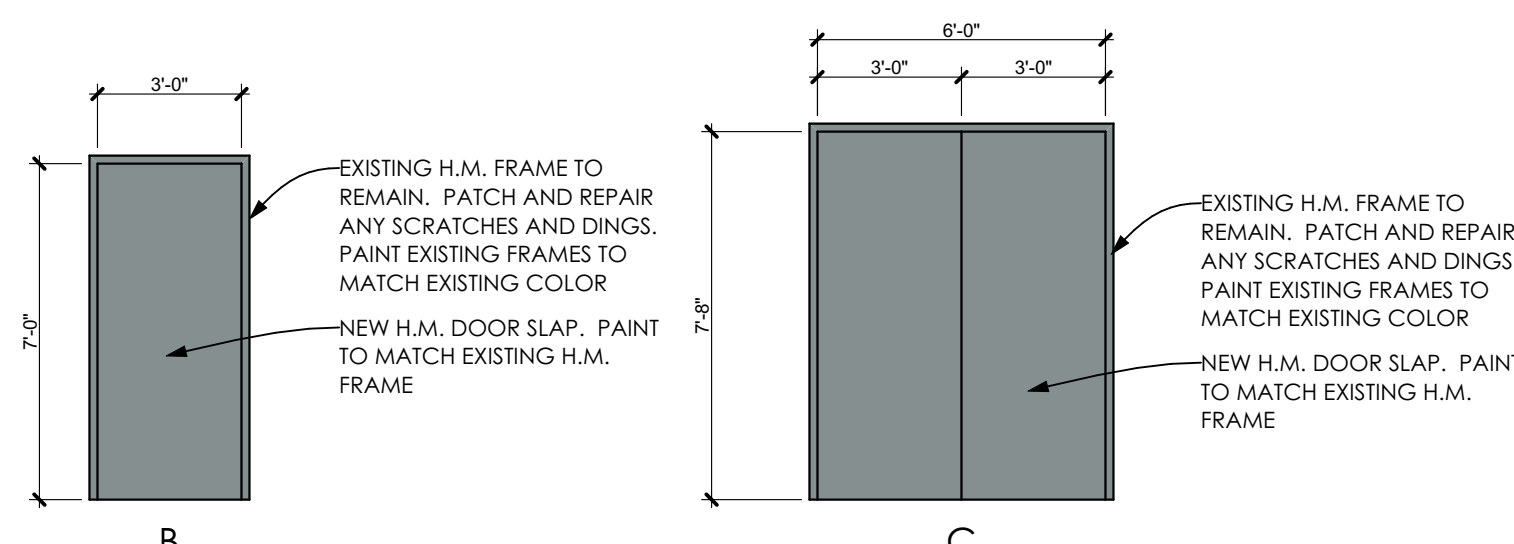
SCALE: 1 1/2" = 1'-0"



DOOR TYPE A

HEPWORTH DOOR TYPES

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



DOOR TYPE B

CANYON BUILDING DOOR TYPES

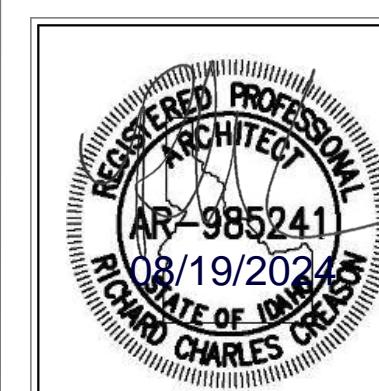
SCALE: 1" = 1'-0"

Myers ■ Anderson

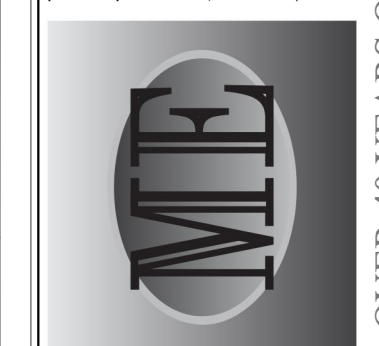
Architecture ■ Interior Design ■ Historic Preservation

122 South Main Street ■ Pocatello, Idaho 83204 ■ Tel. (208) 232-3741 ■ Fax (208) 232-3782

DATE	BY	REVISIONS



MUSGROVE ENGINEERING, P.A.
234 S. Whisperwood Way
Boise, ID 83709
645 West 25th Street
Twin Falls, ID 83402
208.522.2862
www.musgrovepa.com



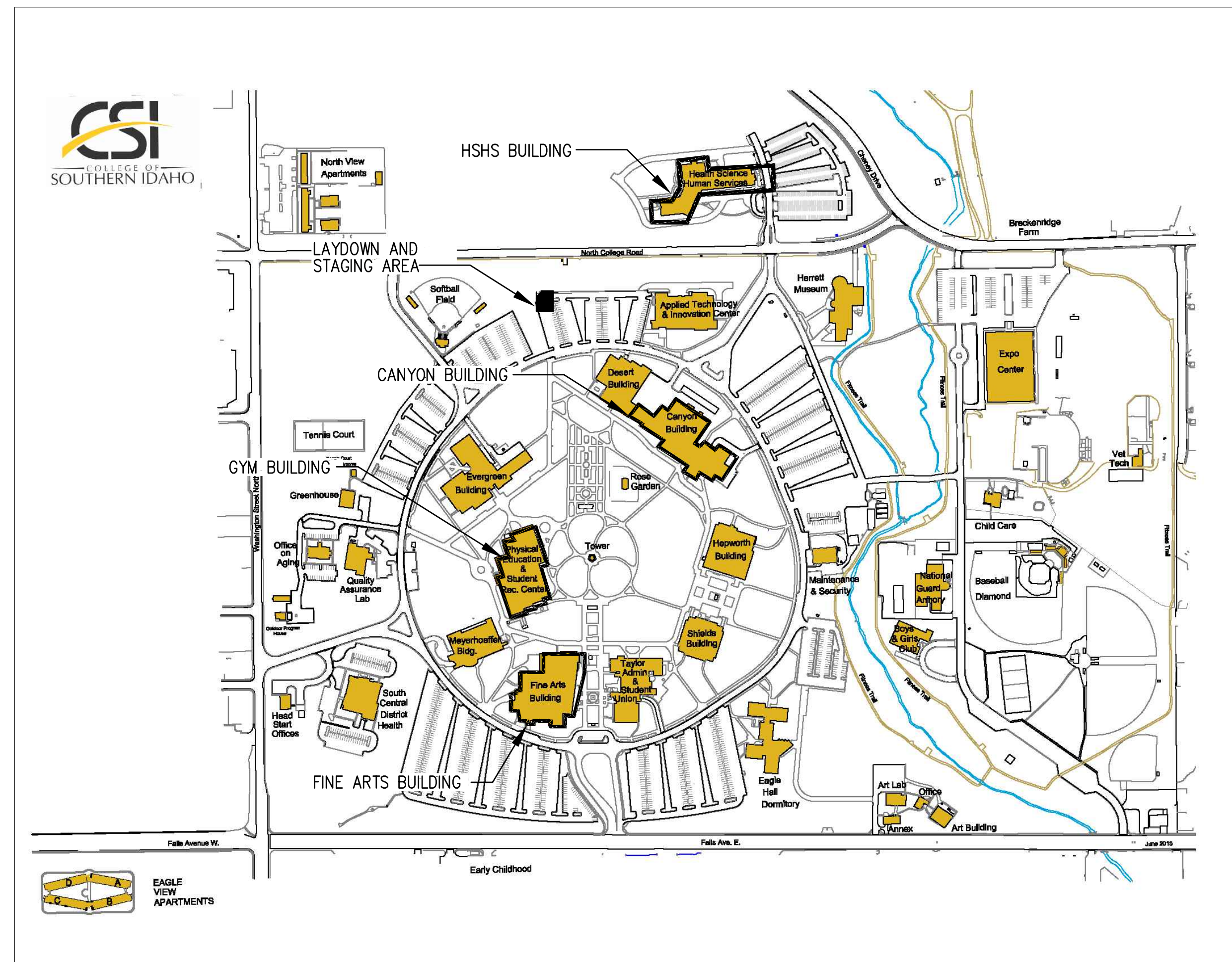
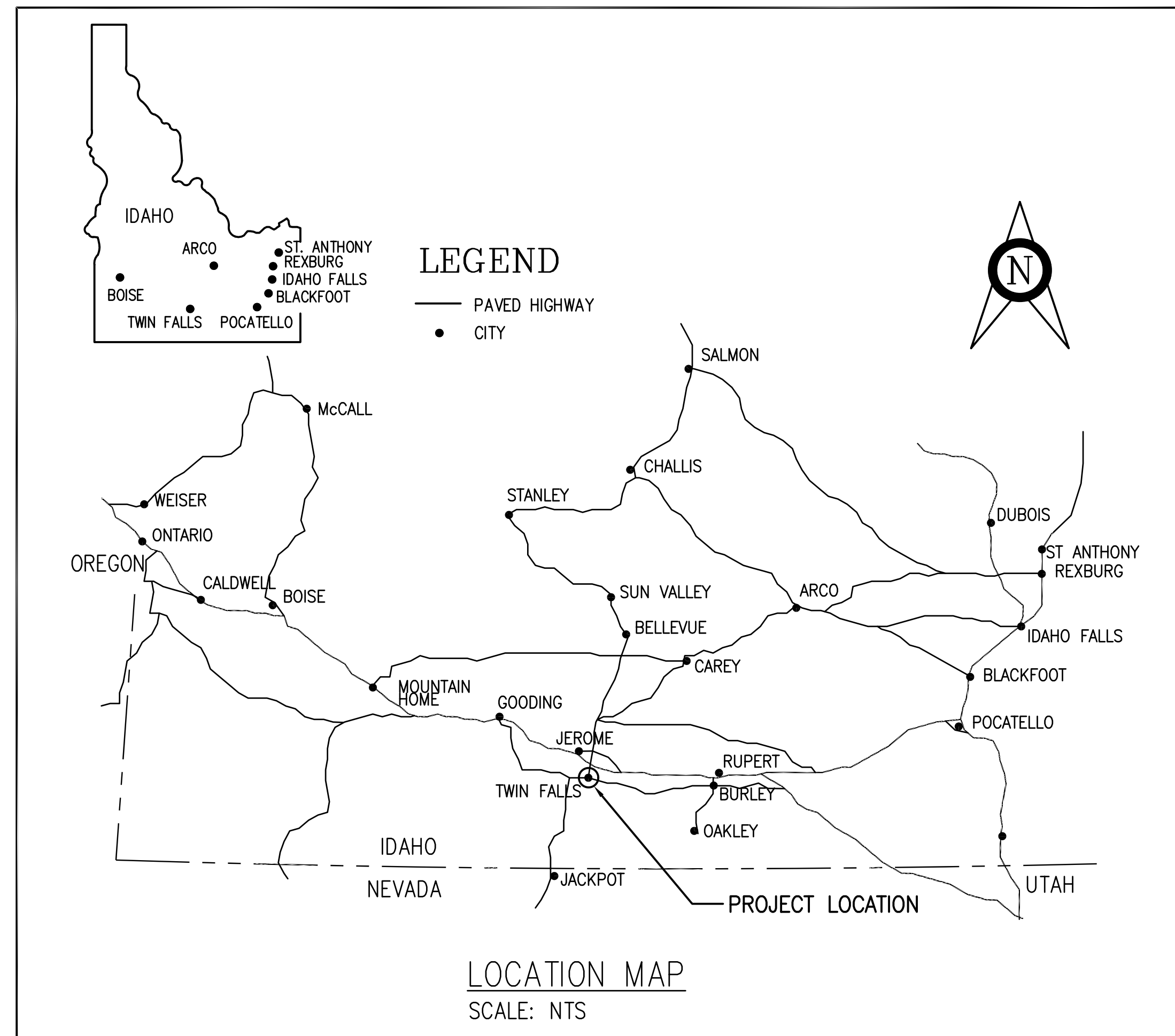
DPW PROJECT 19107
CSI: ENTRY ACCESS CONTROLS, PHASE II
COLLEGE OF SOUTHERN IDAHO
TWIN FALLS, ID

PROJECT	
DRAWN	
CHECKED	
DATE	FEB 2024
SCALE	
SHEET	

A400

AIA NCARB ASID

DPW PROJECT 19107 CSI: ENTRY ACCESS CONTROLS PHASE 2 COLLEGE OF SOUTHERN IDAHO TWIN FALLS, ID



LIST OF DRAWINGS	
T1.0	ELECTRICAL TITLE SHEET
T1.1	ELECTRICAL LEGENDS SHEET & FIBER MAP
(BASE BID)	
E9.1	ACCESS CONTROL PLAN
E9.2	SECURITY CAMERA PLAN

CODES	
INTERNATIONAL BUILDING CODE	- 2018 OF IDAHO
EXISTING INTERNATIONAL BUILDING CODE	- 2009 2018
IDAHO ENERGY CONSERVATION CODE	- 2018 OF IDAHO
NATIONAL ELECTRIC CODE	- 2017 OF IDAHO

Plan Review Note
These plans have been reviewed for code compliance based on the submitted documents and plan sheets, and have been found, to be, substantially code compliant, all other code compliance requirements shall be completed through field inspections, verifications, and approvals by the field building inspector.

See Plan Review notes: The plan review notes shall always be attached to the stamped approved plans and documents. These are part of the plans and shall be a permanent record with the plans. Inspection shall not take place without a complete set of the Idaho Division of Occupational and Professional Licenses (IDOPPL) plan review notes and approved, stamped plans on site.

Construction Safeguards
Construction safeguards shall be required for any and all demolition and or construction to ensure public safety. Required exits, existing structural elements, fire protection devices and sanitary safeguards shall be maintained at all times during alterations, repairs or additions to any building or structure. All applicable construction safeguards from chapter 31 and 33 shall be in place and maintained while any demolition or construction activities are being undertaken.

Sprinkler Note
In tenant renovations and remodels, the installation, deletion, or movement of any walls may affect the sprinkler performance. A sprinkler evaluation by a licensed sprinkler contractor should be made to ensure that any modification to the sprinkler system is warranted. Any alteration deletions or additions to the system shall be by a licensed sprinkler contractor and be approved by the Fire Marshal through plan review and inspection.

Penetrations Note
It is the responsibility of the design professional, contractor, and or builder to notify the building department of any alteration, addition, or removal of any building component, that is not in the scope of this approved plan and permit, whether structural, or not, as a modification of plans, for review and inspection. Any penetrations, whether a membrane penetration or through penetration of any horizontal assemblies, smoke assemblies, fire-resistance-rated wall assemblies, and fire-resistance-rated floor, and or ceiling assemblies must be protected and inspected if penetrated. The provisions of chapter 7, of the 2018 IBC shall govern the materials and methods of construction used to protect duct penetrations, through penetrations and membrane penetrations of rated assemblies. A building permit for the inspection of such alterations, penetrations and protections shall be made, and building inspections called for approval.

DESIGN PROFESSIONAL CONTACT
MUSGROVE ENGINEERING P.A.
MATTHEW BRADLEY P.E.
645 WEST 25TH STREET
IDAHO FALLS ID 83404
208-523-2862

AGENCY CONTACT
COLLEGE OF SOUTHERN IDAHO
THEO SCHUT
315 FALLS AVE
TWIN FALLS ID 83301
208-732-6610

OWNER CONTACT
IDAHO DIVISION OF PUBLIC WORKS
JOHN B. PARHAM
502 N 4TH ST
BOISE ID 83702
208-332-1909

PROJECT GENERAL NOTES:

- ALL BUILDINGS ON CSI CAMPUS ARE TO REMAIN 100% OWNER OCCUPIED. BUILDING EXITING AND SECURITY SHALL BE MAINTAINED DURING CONSTRUCTION.
- ACCESS CONTROL SYSTEM AND SECURITY CAMERA SYSTEM SHALL OPERATE ON EXISTING DARK FIBER AS INSTALLED ON CSI CAMPUS. FIELD VERIFY EXISTING DARK FIBER SYSTEM PRIOR TO BID TO VERIFY FUNCTIONALITY AND FIBER OPTIC TYPE.

Fiber optic wiring to comply with NEC 770.
Firestop as required per NEC 300.21 where wires pass thru walls, floor or ceilings.

CONSTRUCTION APPROVAL BY RESPONSIBLE CHIEF OFFICER OF INSTITUTION OR AGENCY (IDAHO CODE 67-5710)

This project incorporates the required program elements within the funding limitations authorized, and authorize the Division of Public Works to proceed with bidding of the project. If acceptable bids are received, I will approve awarding a contract and construction of the facilities in accordance with the plans and specifications.

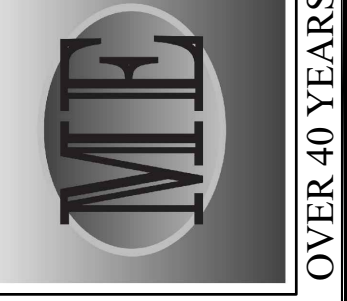
Approval: Approved

Name or Title	Approval
Agency - Signature Authority	Approved Apr 22 2024 09:29 PM MST
Project Manager	Approved Apr 22 2024 09:10 PM MST
Project Manager Senior	Approved May 11 2024 08:47 PM MST
DPW Administrator	Approved May 11 2024 09:09 AM MST

NO.	REVISIONS	DATE



MUSGROVE ENGINEERING P.A.
25th Street, Twin Falls, ID 83301
208-523-2862
645 West 25th Street, Idaho Falls, ID 83404
www.musgrovepa.com

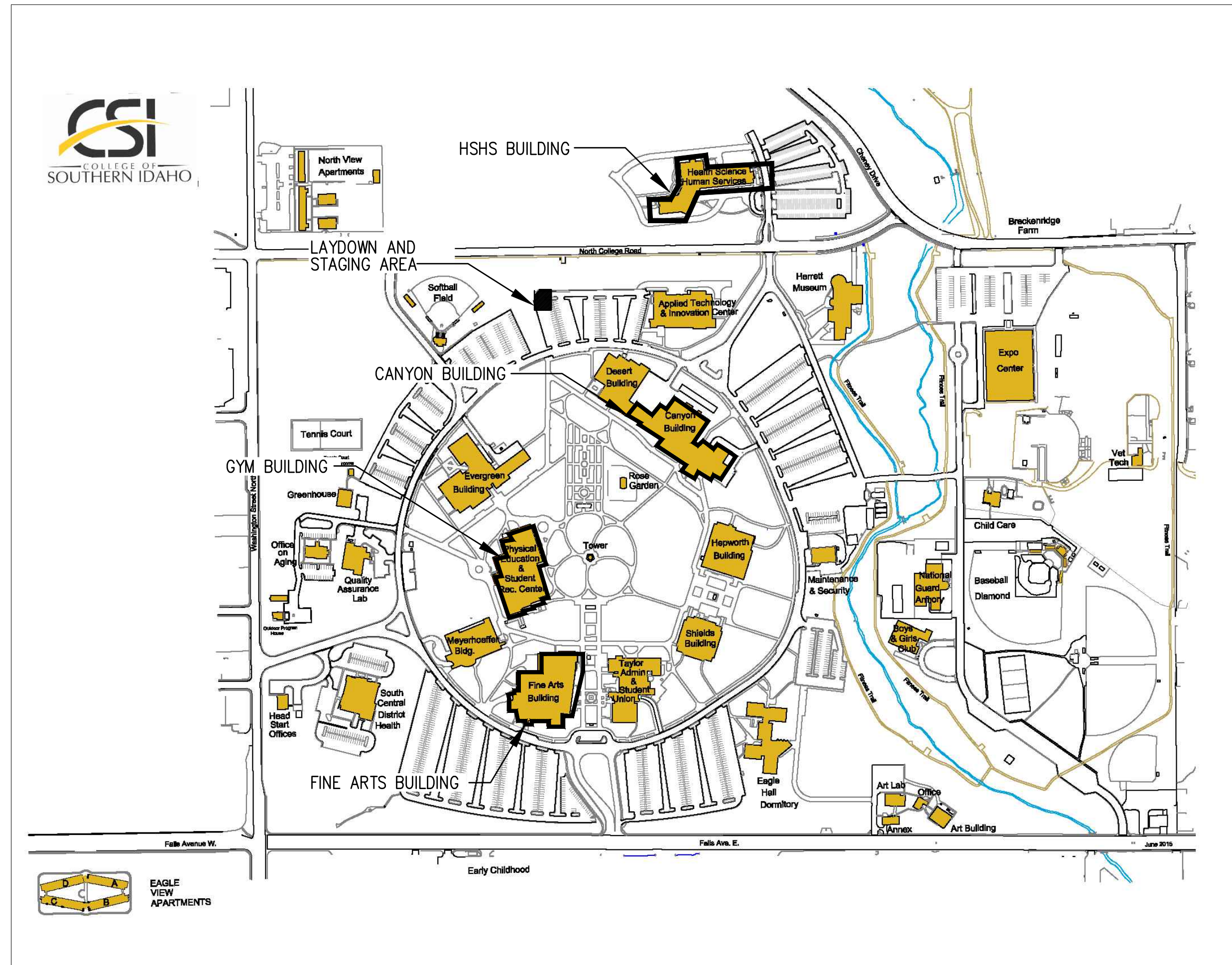
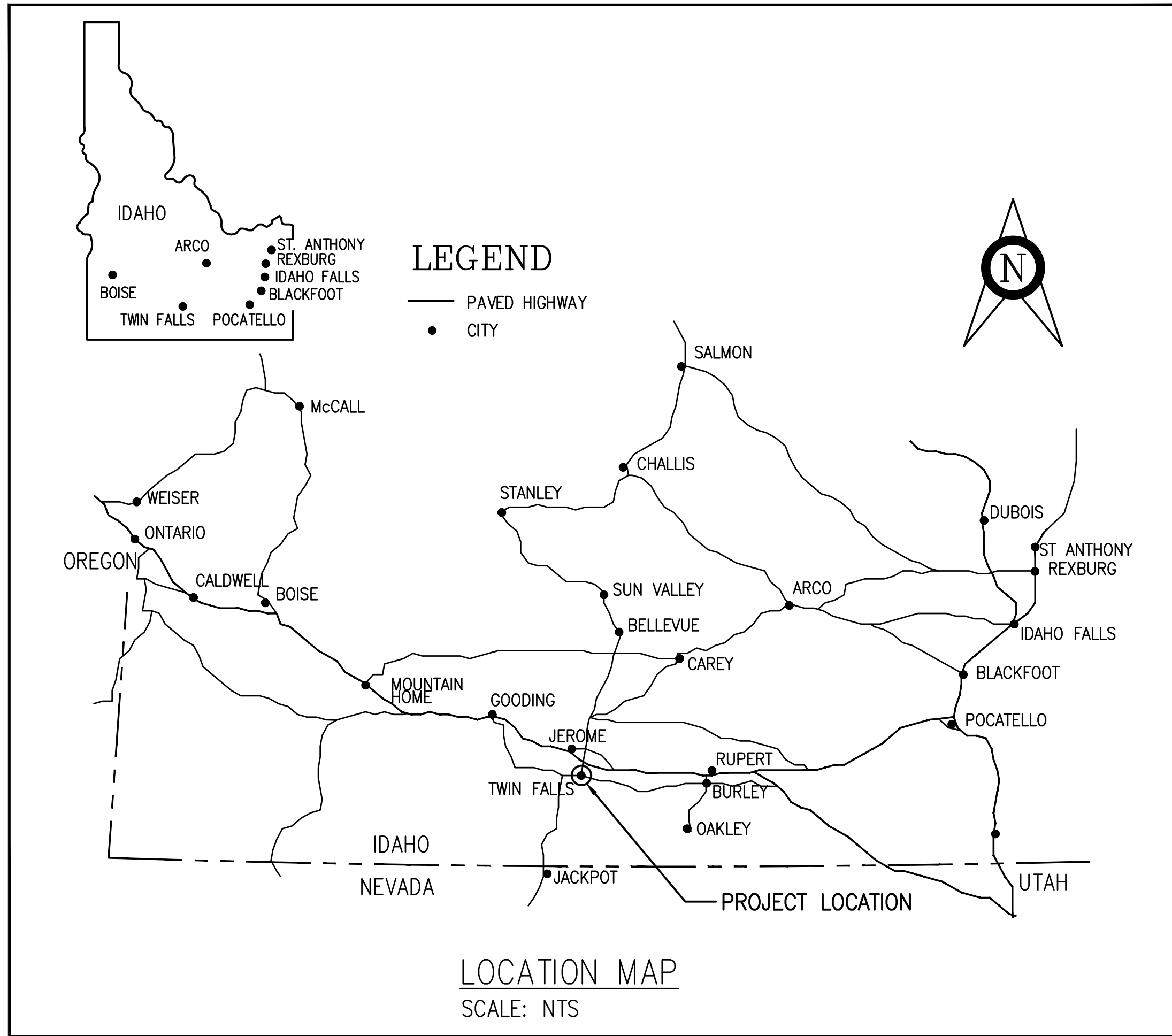


DPW PROJECT 19107
CSI: ENTRY ACCESS CONTROLS, PHASE II
COLLEGE OF SOUTHERN IDAHO
TWIN FALLS, ID

PROJECT	B18-112
DRAWN	DBH
CHECKED	MNB
DATE	JULY 2024
SCALE	AS SHOWN

T1.0

DPW PROJECT 19107 CSI: ENTRY ACCESS CONTROLS PHASE 2 COLLEGE OF SOUTHERN IDAHO TWIN FALLS, ID



LIST OF DRAWINGS	
T1.0	ELECTRICAL TITLE SHEET
T1.1	ELECTRICAL LEGENDS SHEET & FIBER MAP
(BASE BID)	
E15.1	ACCESS CONTROL PLAN
E15.2	SECURITY CAMERA PLAN

CODES	
INTERNATIONAL BUILDING CODE	- 2018 OF IDAHO
EXISTING INTERNATIONAL BUILDING CODE	- 2020
IDAHO ENERGY CONSERVATION CODE	- 2018 OF IDAHO
NATIONAL ELECTRIC CODE	- 2017 OF IDAHO

DESIGN PROFESSIONAL CONTACT
 MUSGROVE ENGINEERING P.A.
 MATTHEW BRADLEY P.E.
 645 WEST 25TH STREET
 IDAHO FALLS ID 83404
 208-523-2862

AGENCY CONTACT
 COLLEGE OF SOUTHERN IDAHO
 THEO SCHUT
 315 FALLS AVE
 TWIN FALLS ID 83301
 208-732-6610

OWNER CONTACT
 IDAHO DIVISION OF PUBLIC WORKS
 JOHN B. PARHAM
 502 N 4TH ST
 BOISE ID 83702
 208-332-1909

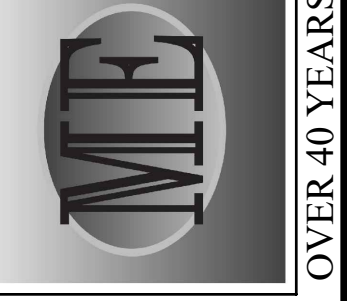
- PROJECT GENERAL NOTES:**
- ALL BUILDINGS ON CSI CAMPUS ARE TO REMAIN 100% OWNER OCCUPIED. BUILDING EXITING AND SECURITY SHALL BE MAINTAINED DURING CONSTRUCTION.
 - ACCESS CONTROL SYSTEM AND SECURITY CAMERA SYSTEM SHALL OPERATE ON EXISTING DARK FIBER AS INSTALLED ON CSI CAMPUS. FIELD VERIFY EXISTING DARK FIBER SYSTEM PRIOR TO BID TO VERIFY FUNCTIONALITY AND FIBER OPTIC TYPE.

CONSTRUCTION APPROVAL BY RESPONSIBLE CHIEF OFFICER OF INSTITUTION OR AGENCY (IDAHO CODE 67-5710)	
<p>This project incorporates the required program elements within the funding limitations authorized, and authorize the Division of Public Works to proceed with bidding of the project. If acceptable bids are received, I will approve awarding a contract and construction of the facilities in accordance with the plans and specifications.</p>	
<p>Approval</p> <p>Approved: [Signature]</p>	<p>Approved: [Signature]</p>

NO.	REVISIONS	DATE



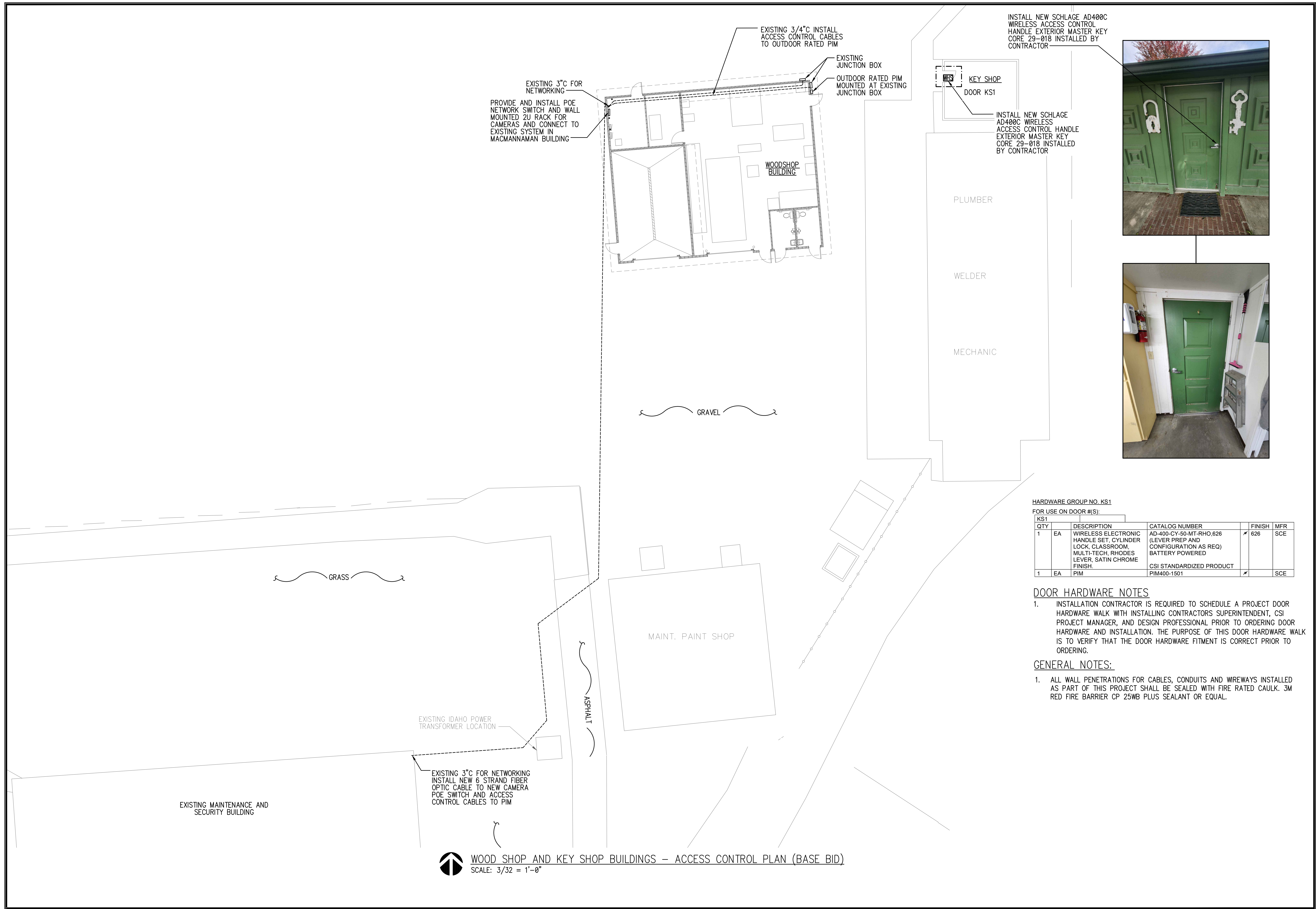
MUSGROVE ENGINEERING P.A.
 645 West 25th Street
 Idaho Falls, ID 83404
 208-523-2862
 www.musgrovepa.com



DPW PROJECT 19107
 CSI: ENTRY ACCESS CONTROLS, PHASE II
 COLLEGE OF SOUTHERN IDAHO
 TWIN FALLS, ID

PROJECT	B18-112
DRAWN	DBH
CHECKED	MNB
DATE	JULY 2024
SCALE	AS SHOWN

T1.0



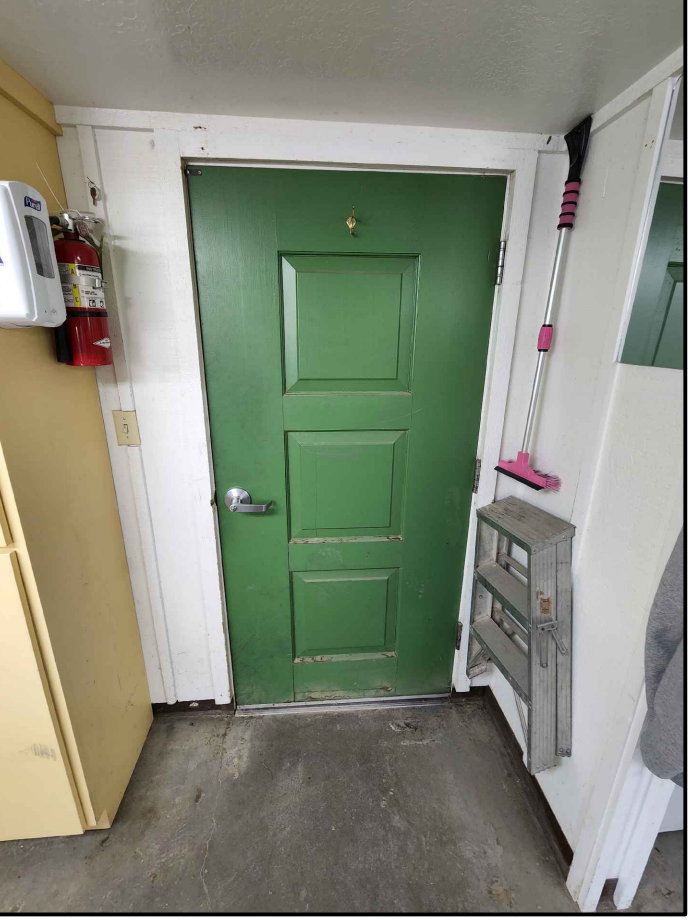
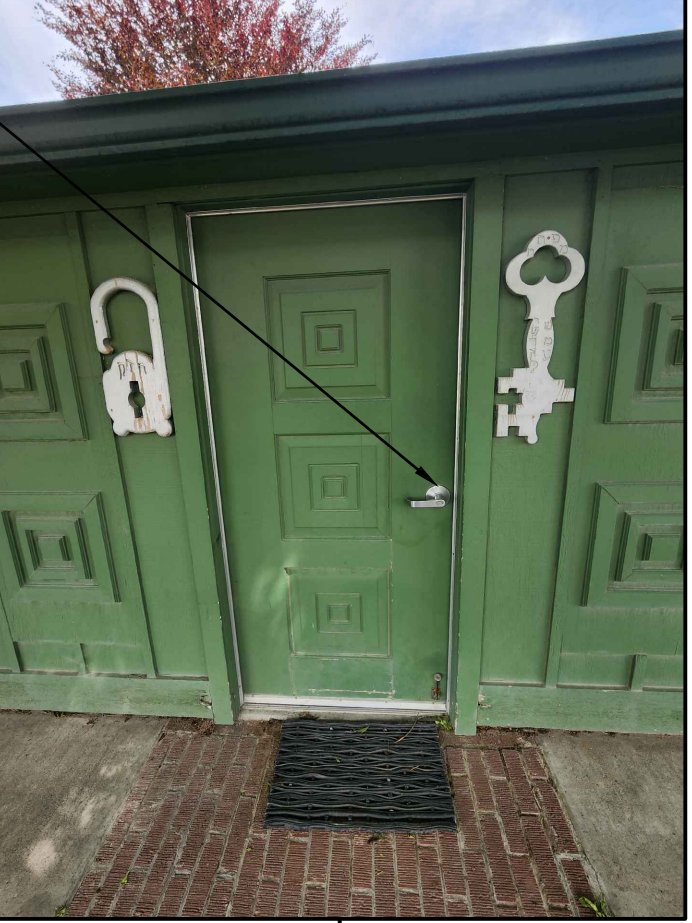
EXISTING 3" FOR NETWORKING
 PROVIDE AND INSTALL POE NETWORK SWITCH AND WALL MOUNTED 2U RACK FOR CAMERAS AND CONNECT TO EXISTING SYSTEM IN MACMANNAMAN BUILDING

EXISTING 3/4" INSTALL ACCESS CONTROL CABLES TO OUTDOOR RATED PIM

EXISTING JUNCTION BOX
 OUTDOOR RATED PIM MOUNTED AT EXISTING JUNCTION BOX

INSTALL NEW SCHLAGE AD400C WIRELESS ACCESS CONTROL HANDLE EXTERIOR MASTER KEY CORE 29-018 INSTALLED BY CONTRACTOR

INSTALL NEW SCHLAGE AD400C WIRELESS ACCESS CONTROL HANDLE EXTERIOR MASTER KEY CORE 29-018 INSTALLED BY CONTRACTOR



PLUMBER

WELDER

MECHANIC

GRAVEL

GRASS

ASPHALT

EXISTING IDAHO POWER TRANSFORMER LOCATION

EXISTING 3" FOR NETWORKING
 INSTALL NEW 6 STRAND FIBER OPTIC CABLE TO NEW CAMERA POE SWITCH AND ACCESS CONTROL CABLES TO PIM

EXISTING MAINTENANCE AND SECURITY BUILDING

HARDWARE GROUP NO. KS1
 FOR USE ON DOOR #(S):

QTY	EA	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	WIRELESS ELECTRONIC HANDLE SET, CYLINDER LOCK, CLASSROOM, MULTI-TECH, RHODES LEVER, SATIN CHROME FINISH.	AD-400-CY-50-MT-RHO,626 (LEVER PREP AND CONFIGURATION AS REQ) BATTERY POWERED	626	SCE
1	EA	PIM	CSI STANDARDIZED PRODUCT PIM400-1501		SCE

DOOR HARDWARE NOTES

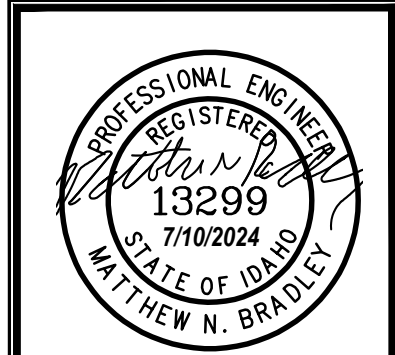
- INSTALLATION CONTRACTOR IS REQUIRED TO SCHEDULE A PROJECT DOOR HARDWARE WALK WITH INSTALLING CONTRACTORS SUPERINTENDENT, CSI PROJECT MANAGER, AND DESIGN PROFESSIONAL PRIOR TO ORDERING DOOR HARDWARE AND INSTALLATION. THE PURPOSE OF THIS DOOR HARDWARE WALK IS TO VERIFY THAT THE DOOR HARDWARE FITMENT IS CORRECT PRIOR TO ORDERING.

GENERAL NOTES:

- ALL WALL PENETRATIONS FOR CABLES, CONDUITS AND WIREWAYS INSTALLED AS PART OF THIS PROJECT SHALL BE SEALED WITH FIRE RATED CAULK. 3M RED FIRE BARRIER CP 25WB PLUS SEALANT OR EQUAL.

WOOD SHOP AND KEY SHOP BUILDINGS – ACCESS CONTROL PLAN (BASE BID)
 SCALE: 3/32 = 1'-0"

NO.	REVISIONS	DATE



MUSGROVE ENGINEERING, P.A.
 2440 W. 24th Street, Boise, ID 83705
 208.384.4058
 445 West 24th Street, Idaho Falls, ID 83402
 208.343.1234
 www.musgrovepa.com

MTI

OVER 40 YEARS OF EXCELLENCE

DPW PROJECT 19107
CSI: ENTRY ACCESS CONTROLS, PHASE II
COLLEGE OF SOUTHERN IDAHO
TWIN FALLS, ID

PROJECT	B18-112
DRAWN	DBH
CHECKED	MNB
DATE	JULY 2024
SCALE	AS SHOWN

SHEET

E15.1

CAMERA SCHEDULE (MINIMUM SPECIFICATIONS)

SYMBOL	FORM FACTOR	FIELD OF VIEW	LENS	SHUTTER SPEED	RESOLUTION	FRAMES PER SECOND	MINIMUM ILLUMINATION	POWER INPUT	HOUSING	OPERATING TEMPERATURE
E1	EXTERIOR BULLET	H: 104-36 / V: 55-120	2.8-8.5MM, F1.2	1/62500S - 2S	H.264 3MP (3072X1728)	25/30	0.15 LUX @ F1.2 (COLOR)	DC 12V POE	IP66	-40 C TO 60 C

CAMERA CABLE LEGEND

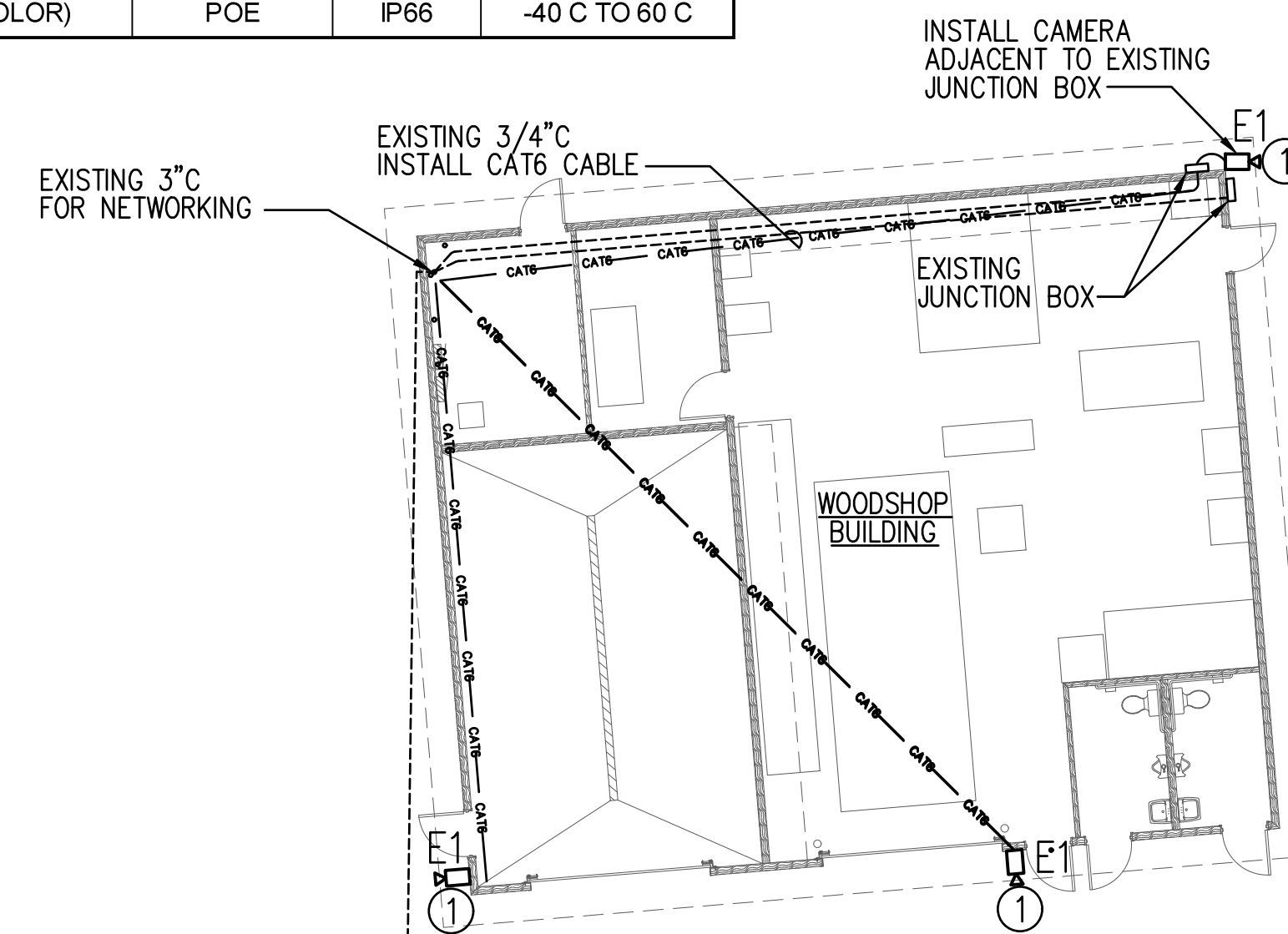
— CAT6 — CAT6 — WINDY CITY WIRE 5566080/23-4P (GRAY) OR EQUAL

DRAWING KEY NOTES:

- ① CONTRACTOR TO PROVIDE AND INSTALL DOME CAMERA, TYPE AS INDICATED, ON ACCESSIBLE CEILING TILE.

GENERAL NOTES:

- 1. ALL WALL PENETRATIONS FOR CABLES, CONDUITS AND WIREWAYS INSTALLED AS PART OF THIS PROJECT SHALL BE SEALED WITH FIRE RATED CAULK, 3M RED FIRE BARRIER CP 25WB PLUS SEALANT OR EQUAL.



EXISTING 3" C FOR NETWORKING 24" BELOW GRADE

GRAVEL

GRASS

ASPHALT

EXISTING IDAHO POWER TRANSFORMER LOCATION

E1 ①
3" C FOR NETWORKING STUB INTO BUILDING WITH LB 24" ABOVE GRADE

EXISTING MAINTENANCE AND SECURITY BUILDING



WOOD SHOP AND KEY SHOP BUILDINGS – CAMERA SECURITY PLAN (BASE BID)
SCALE: 3/32 = 1'-0"

NO.	REVISIONS	DATE



MUSGROVE ENGINEERING, P.A.
2341
Rex, ID 83705
208.384.1055
645 West 25th Street
Twin Falls, ID 83402
www.musgrovepa.com

OVER 40 YEARS OF EXCELLENCE

DPW PROJECT 19107
CSI: ENTRY ACCESS CONTROLS, PHASE II
COLLEGE OF SOUTHERN IDAHO
TWIN FALLS, ID

PROJECT	B18-112
DRAWN	DBH
CHECKED	MNB
DATE	JULY 2024
SCALE	AS SHOWN
SHEET	

E15.2

DPW PROJECT 19107

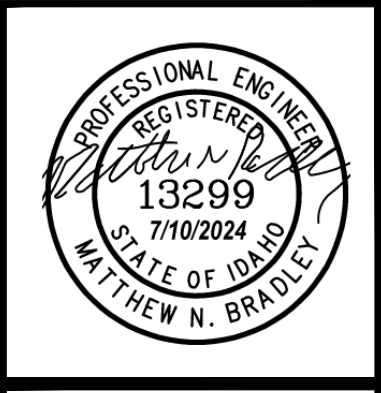
CSI: ENTRY ACCESS CONTROLS PHASE 2

COLLEGE OF SOUTHERN IDAHO

TWIN FALLS, ID



NO.	REVISIONS	DATE

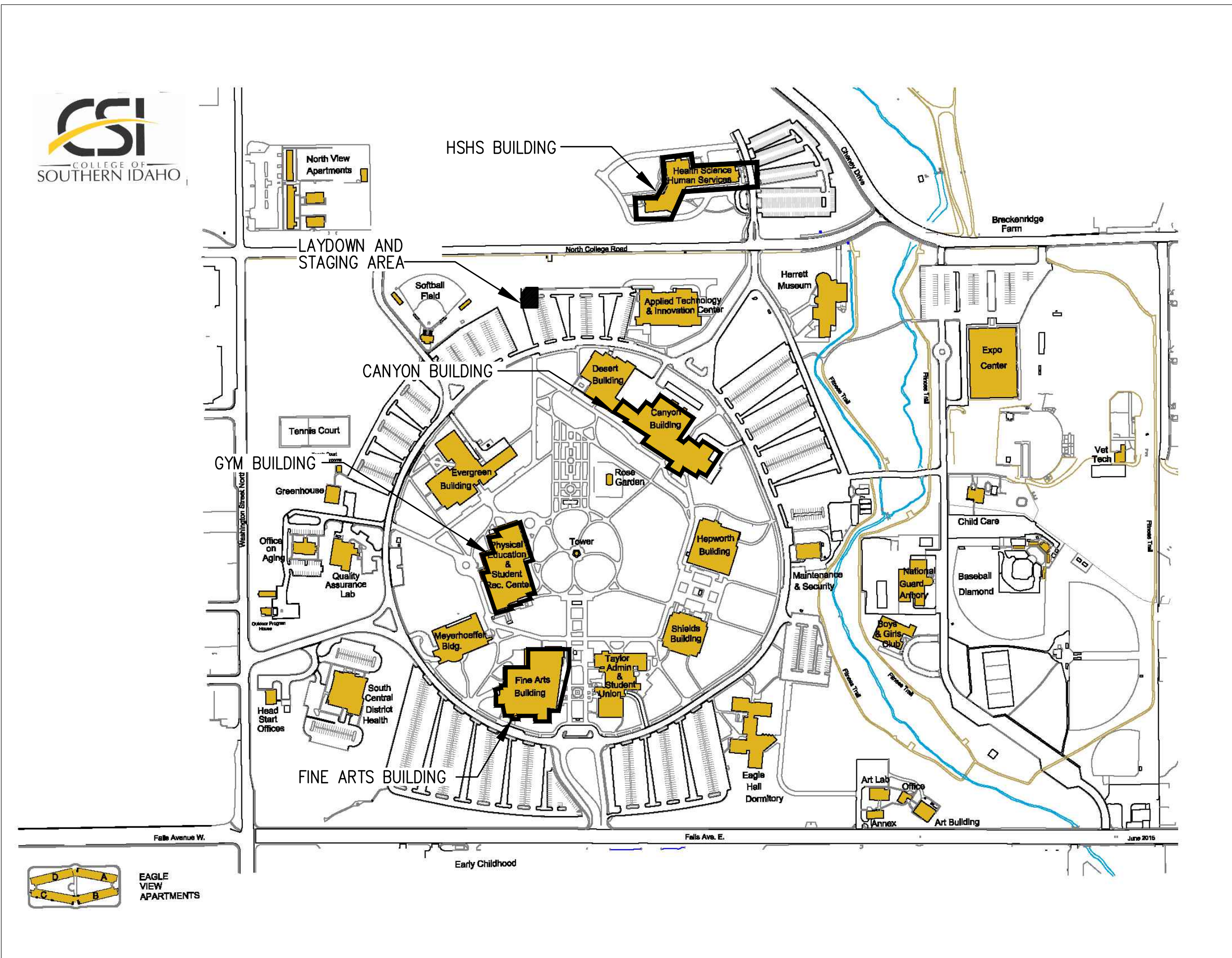
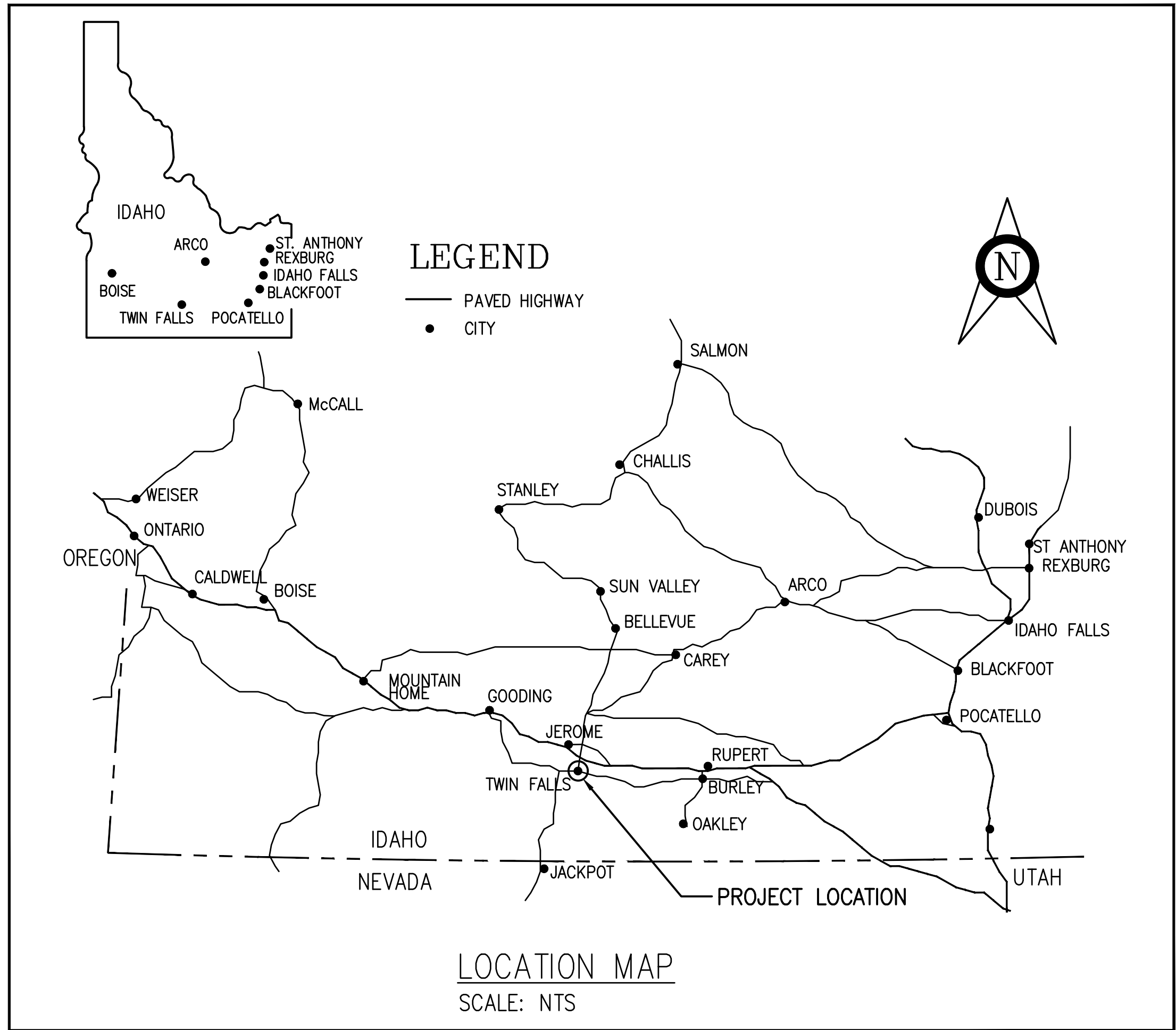


MUSGROVE ENGINEERING P.A.
 25th Street, Twin Falls, ID 83301
 208-384-1055
 645 West 25th Street, Idaho Falls, ID 83404
 www.musgrovepa.com

OVER 40 YEARS OF EXCELLENCE

LIST OF DRAWINGS	
T1.0	ELECTRICAL TITLE SHEET
T1.1	ELECTRICAL LEGENDS SHEET & FIBER MAP
(BASE BID)	
TAYLOR BUILDING	
E14.1	ACCESS CONTROL PLAN
E14.2	SECURITY CAMERA PLAN

CODES	
INTERNATIONAL BUILDING CODE	- 2018 OF IDAHO
EXISTING INTERNATIONAL BUILDING CODE	- 2020
IDAHO ENERGY CONSERVATION CODE	- 2018 OF IDAHO
NATIONAL ELECTRIC CODE	- 2017 OF IDAHO



DESIGN PROFESSIONAL CONTACT
 MUSGROVE ENGINEERING P.A.
 MATTHEW BRADLEY P.E.
 645 WEST 25TH STREET
 IDAHO FALLS ID 83404
 208-523-2862

AGENCY CONTACT
 COLLEGE OF SOUTHERN IDAHO
 THEO SCHUT
 315 FALLS AVE
 TWIN FALLS ID 83301
 208-732-6610

OWNER CONTACT
 IDAHO DIVISION OF PUBLIC WORKS
 JOHN B. PARHAM
 502 N 4TH ST
 BOISE ID 83702
 208-332-1909

- PROJECT GENERAL NOTES:**
- ALL BUILDINGS ON CSI CAMPUS ARE TO REMAIN 100% OWNER OCCUPIED. BUILDING EXITING AND SECURITY SHALL BE MAINTAINED DURING CONSTRUCTION.
 - ACCESS CONTROL SYSTEM AND SECURITY CAMERA SYSTEM SHALL OPERATE ON EXISTING DARK FIBER AS INSTALLED ON CSI CAMPUS. FIELD VERIFY EXISTING DARK FIBER SYSTEM PRIOR TO BID TO VERIFY FUNCTIONALITY AND FIBER OPTIC TYPE.

CONSTRUCTION APPROVAL BY RESPONSIBLE CHIEF OFFICER OF INSTITUTION OR AGENCY (IDAHO CODE 67-5710)

This project incorporates the required program elements within the funding limitations authorized, and authorize the Division of Public Works to proceed with bidding of the project. If acceptable bids are received, I will approve awarding a contract and construction of the facilities in accordance with the plans and specifications.

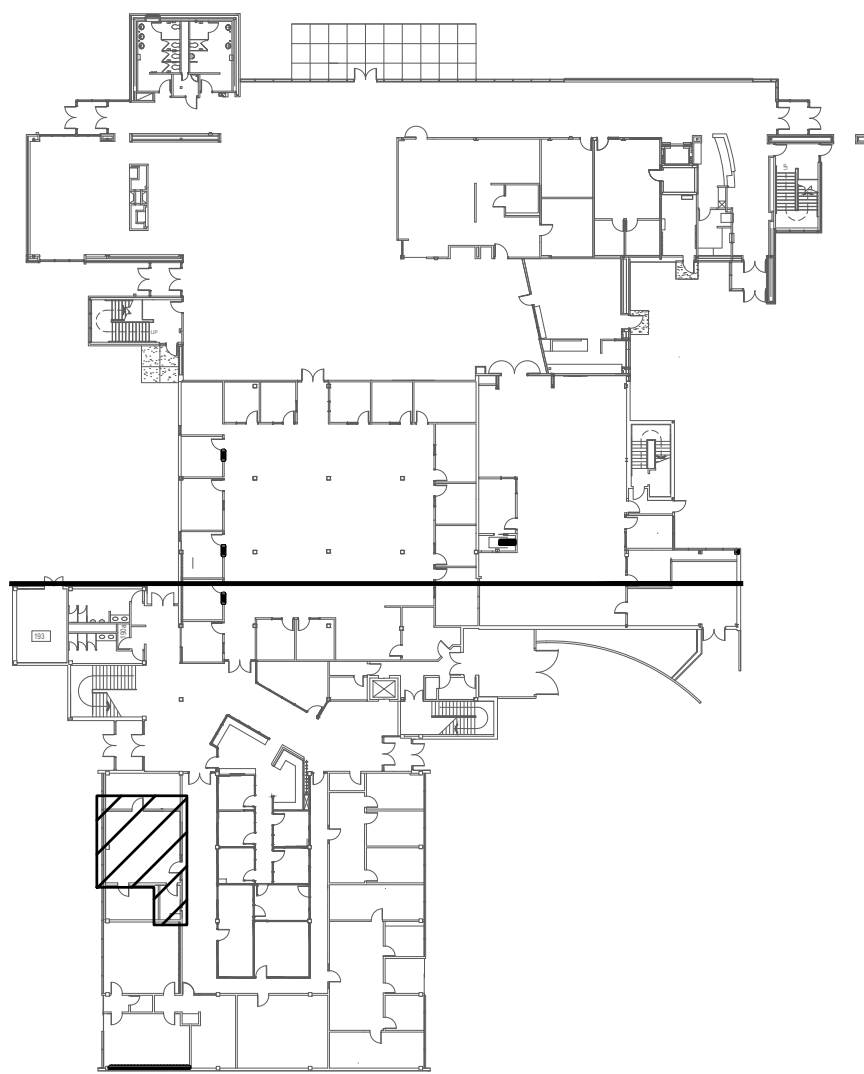
Approval: Approved

Name or Role	Approval
Agency - Signature Authority	Approved
Project Manager	Approved
Project Manager - Design	Approved
DPW Administrator	Approved

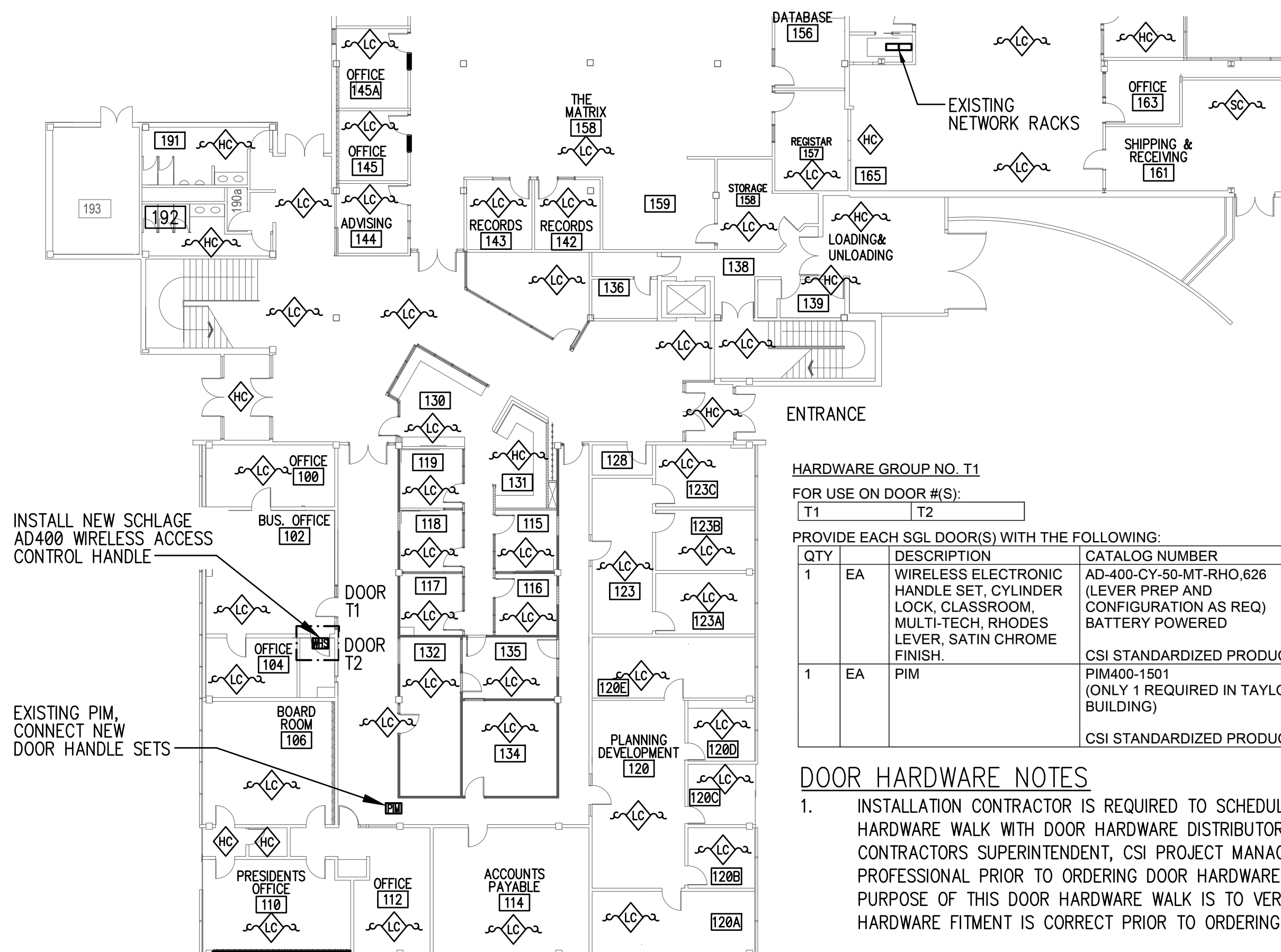
DPW PROJECT 19107
 CSI: ENTRY ACCESS CONTROLS, PHASE II
 COLLEGE OF SOUTHERN IDAHO
 TWIN FALLS, ID

PROJECT	B18-112
DRAWN	DBH
CHECKED	MNB
DATE	JULY 2024
SCALE	AS SHOWN
SHEET	

T1.0



TAYLOR ADMIN & STUDENT UNION BUILDING – 1ST FLOOR
SCALE: NTS



INSTALL NEW SCHLAGE
AD400 WIRELESS ACCESS
CONTROL HANDLE

EXISTING PIM,
CONNECT NEW
DOOR HANDLE SETS

CEILING TYPE LEGEND	
LC	LAY-IN CEILING
HC	HARD CEILING
SC	STRUCTURAL CEILING

GENERAL NOTES:

- ALL WALL PENETRATIONS FOR CABLES, CONDUITS AND WIREWAYS INSTALLED AS PART OF THIS PROJECT SHALL BE SEALED WITH FIRE RATED CAULK, 3M RED FIRE BARRIER CP 25WB PLUS SEALANT OR EQUAL.

HARDWARE GROUP NO. T1
FOR USE ON DOOR #(S):
T1 T2

PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

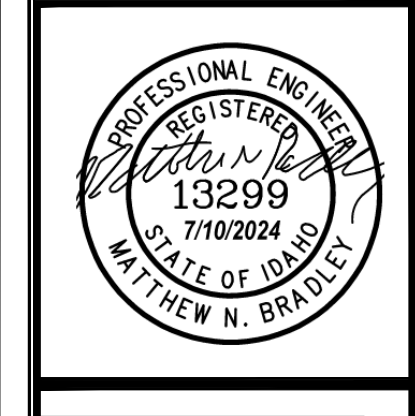
QTY	EA	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	WIRELESS ELECTRONIC HANDLE SET, CYLINDER LOCK, CLASSROOM, MULTI-TECH, RHODES LEVER, SATIN CHROME FINISH.	AD-400-CY-50-MT-RHO.626 (LEVER PREP AND CONFIGURATION AS REQ) BATTERY POWERED	626	SCE
1	EA	PIM	CSI STANDARDIZED PRODUCT PIM400-1501 (ONLY 1 REQUIRED IN TAYLOR BUILDING)		SCE

DOOR HARDWARE NOTES

- INSTALLATION CONTRACTOR IS REQUIRED TO SCHEDULE A PROJECT DOOR HARDWARE WALK WITH DOOR HARDWARE DISTRIBUTOR, INSTALLING CONTRACTORS SUPERINTENDENT, CSI PROJECT MANAGER, AND DESIGN PROFESSIONAL PRIOR TO ORDERING DOOR HARDWARE AND INSTALLATION. THE PURPOSE OF THIS DOOR HARDWARE WALK IS TO VERIFY THAT THE DOOR HARDWARE FITMENT IS CORRECT PRIOR TO ORDERING.
- BUILDING HAS EXISTING GENETEC SERVER INSTALLED 2 POST RACK ADJACENT BOOK STORE. CONNECT NEW PIM TO EXISTING SYSTEM

TAYLOR ADMIN & STUDENT UNION BUILDING – 1ST FLOOR ACCESS CONTROL PLAN (BASE BID)
SCALE: 1/16" = 1'-0" BUILDING TASU

NO.	REVISIONS	DATE



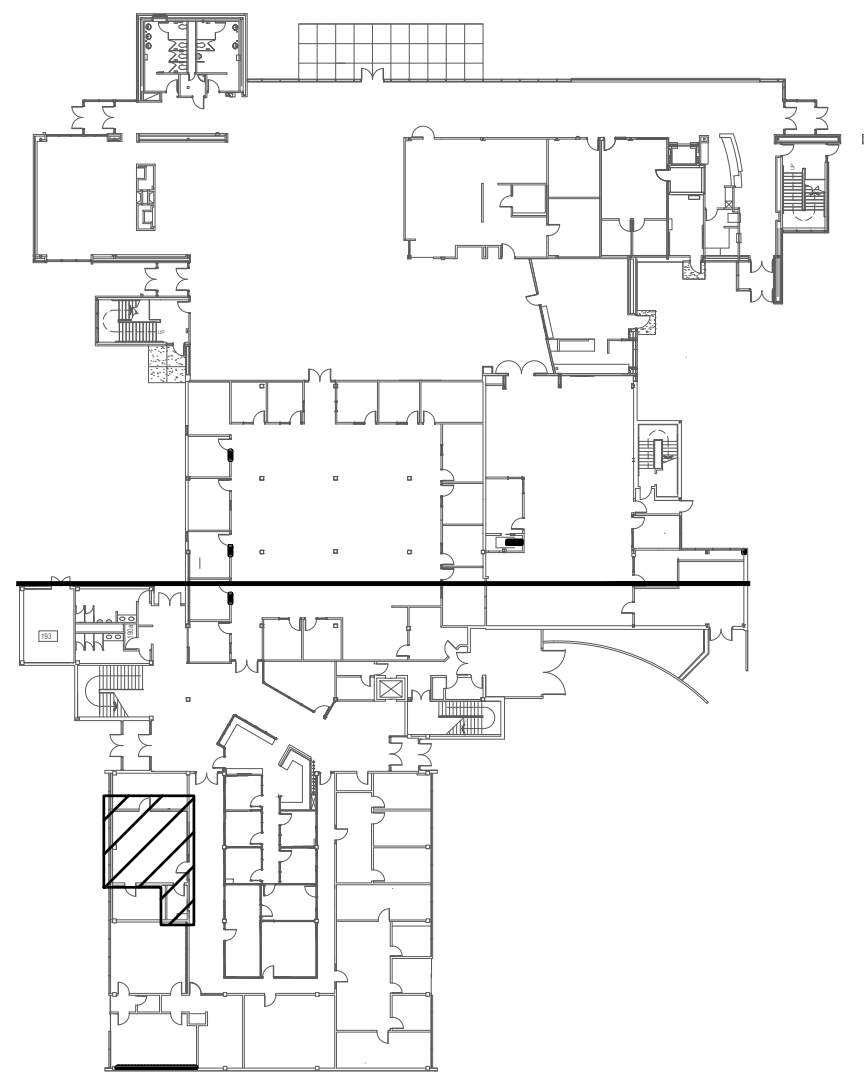
MUSGROVE ENGINEERING, P.A.
2400 West 24th Street
Twin Falls, ID 83708
208.384.4355
445 West 24th Street
Twin Falls, ID 83708
www.musgrovepa.com

OVER 40 YEARS OF EXCELLENCE

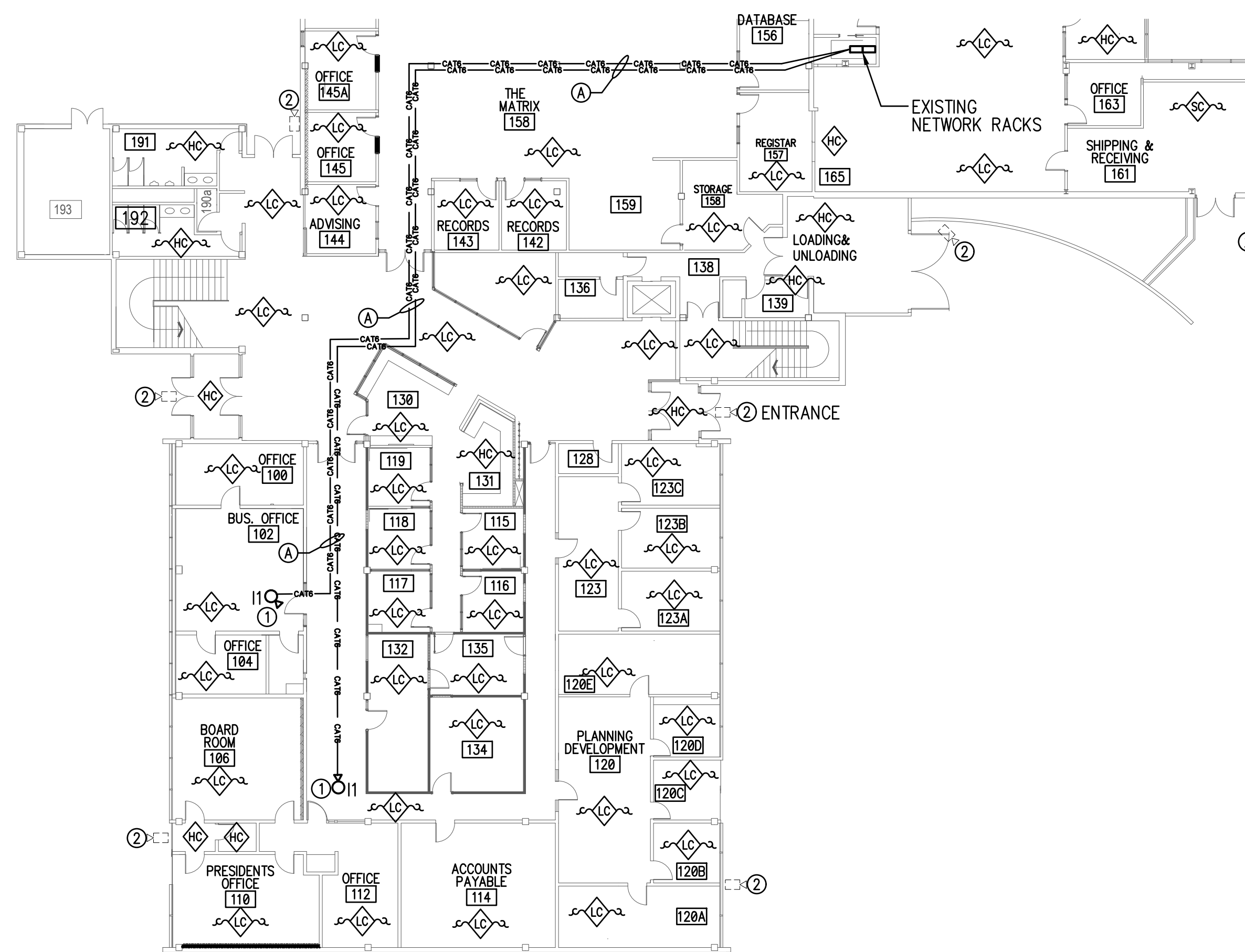
DPW PROJECT 19107
CSI: ENTRY ACCESS CONTROLS, PHASE II
COLLEGE OF SOUTHERN IDAHO
TWIN FALLS, ID

PROJECT	B18-112
DRAWN	DBH
CHECKED	MNB
DATE	JULY 2024
SCALE	AS SHOWN
SHEET	

E14.1



TAYLOR ADMIN & STUDENT UNION BUILDING – 1ST FLOOR
SCALE: NTS



TAYLOR ADMIN & STUDENT UNION BUILDING – 1ST FLOOR SECURITY CAMERA PLAN (BASE BID)
SCALE: 1/16" = 1'-0"
BUILDING TASU

CAMERA SCHEDULE (MINIMUM SPECIFICATIONS)

SYMBOL	FORM FACTOR	FIELD OF VIEW	LENS	SHUTTER SPEED	RESOLUTION H.264	FRAMES PER SECOND	MINIMUM ILLUMINATION	POWER INPUT	HOUSING	OPERATING TEMPERATURE
I1	INTERIOR FIXED DOME	H: 105-36 / V: 57-21	3-9 MM, F1.3	1/62500S - 2S	3MP (1920X1080)	30	.07 LUX @ F1.6 (COLOR)	POE	IP52	-50 C TO 60 C

NEW CAMERA KEY NOTES:

- Ⓐ ACCESS CONTROL AND SECURITY CAMERA CABING ROUTE FREE AIR ABOVE ACCESSIBLE CEILING. INSTALL J-HOOKS 6 FOOT ON CENTER

DRAWING KEY NOTES:

- ① CONTRACTOR TO PROVIDE AND INSTALL DOME CAMERA, TYPE AS INDICATED, ON ACCESSIBLE CEILING TILE.
- EXISTING CAMERA TO REMAIN.

CEILING TYPE LEGEND

- ◇ LC LAY-IN CEILING
- ◇ HC HARD CEILING
- ◇ SC STRUCTURAL CEILING

CAMERA SYSTEM NOTES

- 1. BUILDING HAS EXISTING GENETEC SERVER INSTALLED 2 POST RACK ADJACENT BOOK STORE. CONNECT NEW CAMERAS TO EXISTING SYSTEM

GENERAL NOTES:

- 1. ALL WALL PENETRATIONS FOR CABLES, CONDUITS AND WIREWAYS INSTALLED AS PART OF THIS PROJECT SHALL BE SEALED WITH FIRE RATED CAULK. 3M RED FIRE BARRIER CP 25WB PLUS SEALANT OR EQUAL.

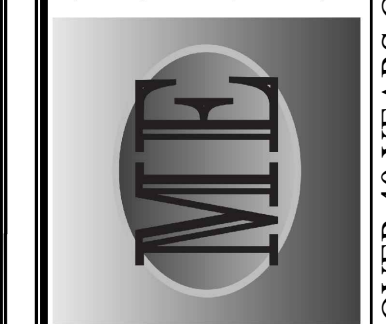
CAMERA CABLE LEGEND

- CAM— WINDY CITY WIRE 5566080/23-4P (GRAY) OR EQUAL FOR EACH CAMERA

NO.	REVISIONS	DATE



MUSGROVE
ENGINEERING, P.A.
2440 West 24th Street
Twin Falls, ID 83403
208.384.0355
idahofirm@musgrove.com
www.musgrove.com



OVER 40 YEARS OF EXCELLENCE

DPW PROJECT 19107
CSI: ENTRY ACCESS CONTROLS, PHASE II
COLLEGE OF SOUTHERN IDAHO
TWIN FALLS, ID

PROJECT	B18-112
DRAWN	DBH
CHECKED	MNB
DATE	JULY 2024
SCALE	AS SHOWN
SHEET	

E14.2

DPW PROJECT 19107

CSI: ENTRY ACCESS CONTROLS PHASE 2

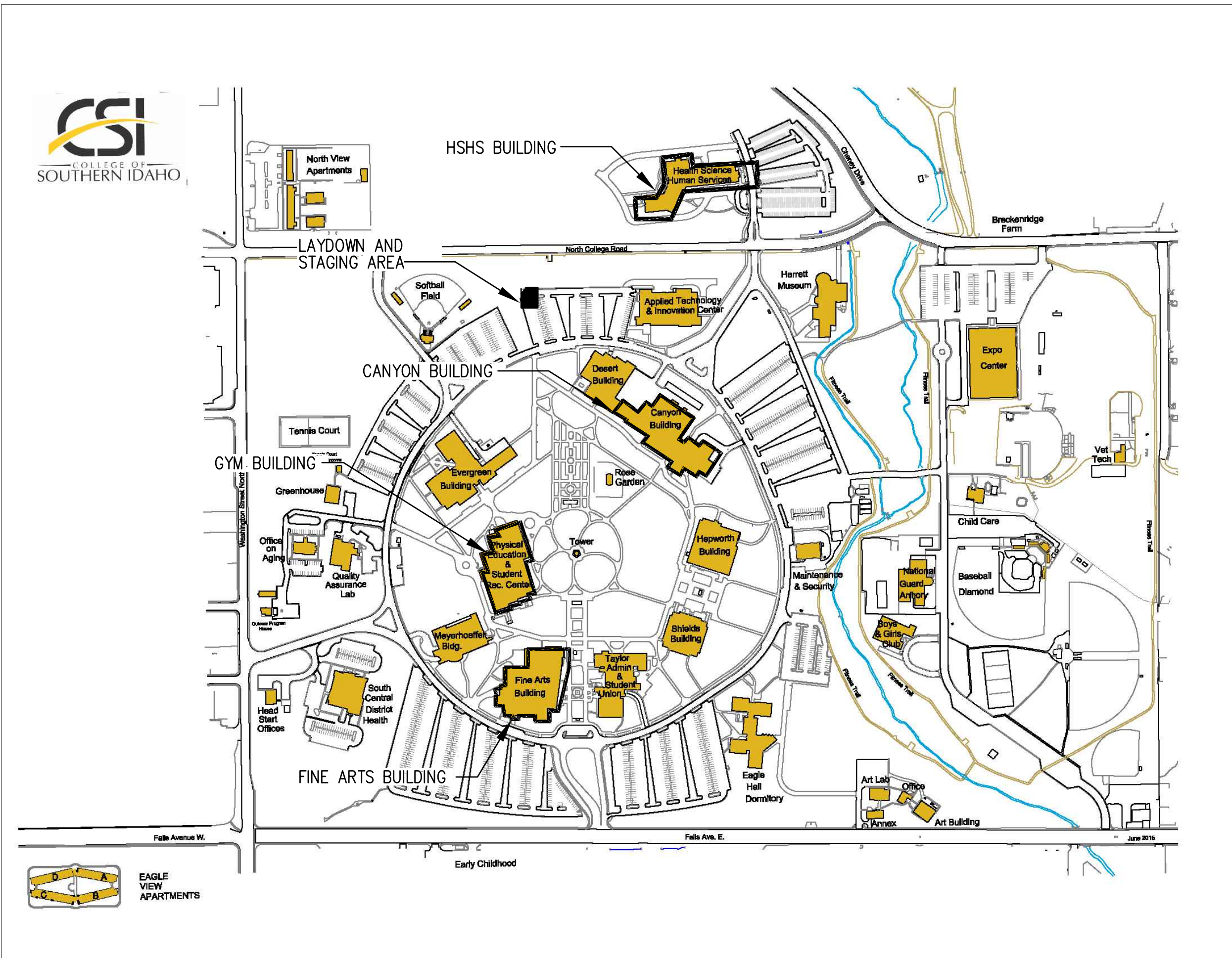
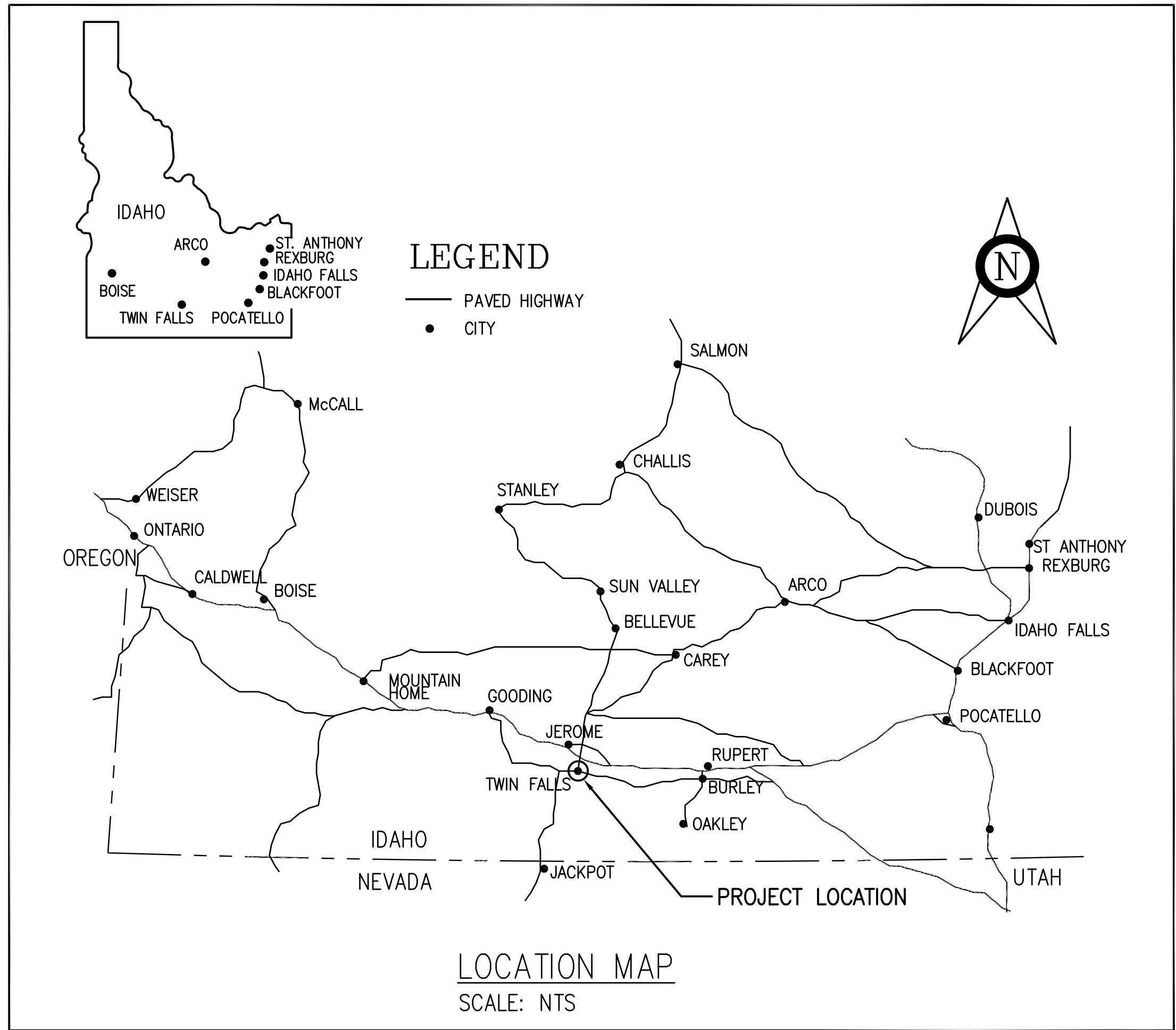
COLLEGE OF SOUTHERN IDAHO

TWIN FALLS, ID



LIST OF DRAWINGS	
T1.0	ELECTRICAL TITLE SHEET
T1.1	ELECTRICAL LEGENDS SHEET & FIBER MAP
HUMAN SERVICE AND HEALTH SCIENCES BUILDING (ALTERNATE #2)	
E8.1	ACCESS CONTROL PLAN
E8.2	ACCESS CONTROL PLAN
E8.3	SECURITY CAMERA PLAN
E8.4	IT ROOM 149 DATA RACK

CODES	
INTERNATIONAL BUILDING CODE - 2018 OF IDAHO	
EXISTING INTERNATIONAL BUILDING CODE - 2009	2018
IDAHO ENERGY CONSERVATION CODE - 2018 OF IDAHO	
NATIONAL ELECTRIC CODE - 2017 OF IDAHO	2023 NEC



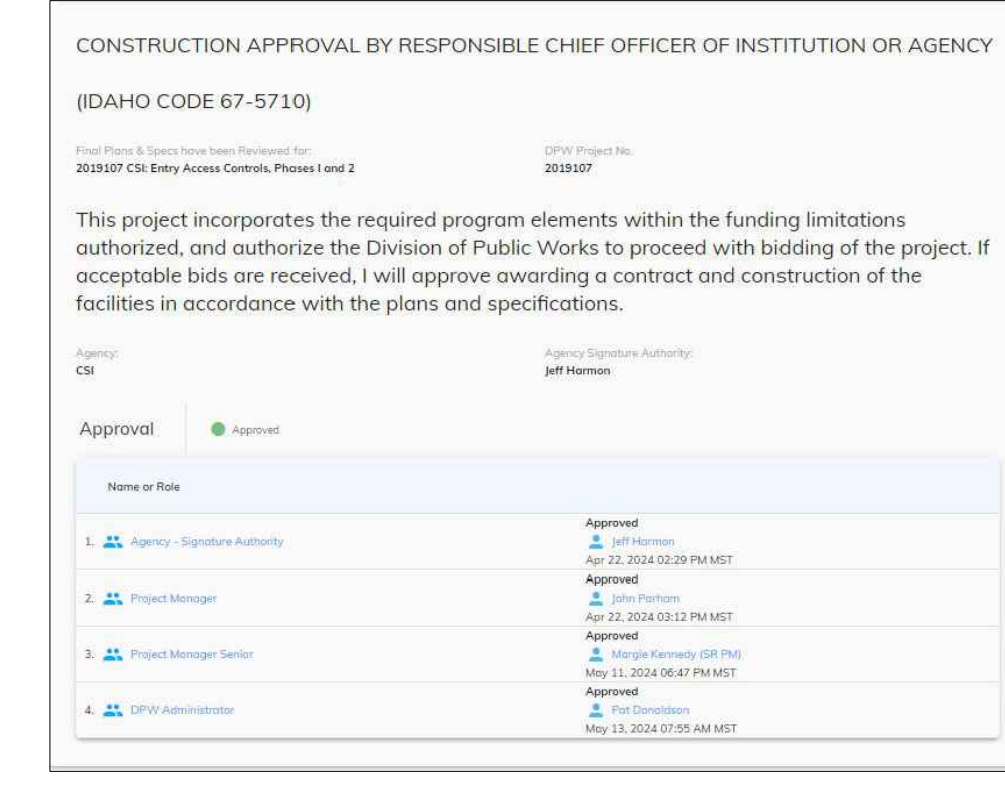
Fiber optic wire to be installed per NEC 770.
Penetrations thru walls, floors and ceilings to be fire caulked per NEC 300.21

These plans have been reviewed for code compliance based on the submitted documents and plan sheets, and have been found, to be, substantially code compliant, all other code compliance requirements shall be completed through field inspections, verifications, and approvals by the field building inspector.

See Plan Review notes: The plan review notes shall always be attached to the stamped approved plans and documents. These are part of the plans and shall be a permanent record with the plans. Inspection shall not take place without a complete set of the Idaho Division of Occupational and Professional Licenses (IDOPL) plan review notes and approved, stamped plans on site.

Construction safeguards shall be required for any and all demolition and or construction to ensure public safety. Required exits, existing structural elements, fire protection devices and sanitary safeguards shall be maintained at all times during alterations, repairs or additions to any building or structure. All applicable construction safeguards from chapter 31 and 33 shall be in place and maintained while any demolition or construction activities are being undertaken.

Construction safeguards shall be required for any and all demolition and or construction to ensure public safety. Required exits, existing structural elements, fire protection devices and sanitary safeguards shall be maintained at all times during alterations, repairs or additions to any building or structure. All applicable construction safeguards from chapter 31 and 33 shall be in place and maintained while any demolition or construction activities are being undertaken.



DESIGN PROFESSIONAL CONTACT
MUSGROVE ENGINEERING P.A.
MATTHEW BRADLEY P.E.
645 WEST 25TH STREET
IDAHO FALLS ID 83404
208-523-2862

AGENCY CONTACT
COLLEGE OF SOUTHERN IDAHO
THEO SCHUT
315 FALLS AVE
TWIN FALLS ID 83301
208-732-6610

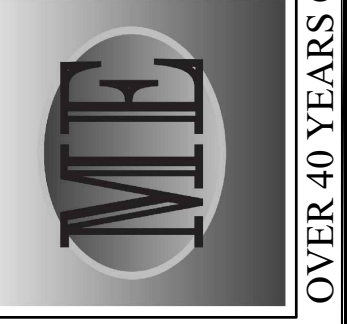
OWNER CONTACT
IDAHO DIVISION OF PUBLIC WORKS
JOHN B. PARHAM
502 N 4TH ST
BOISE ID 83702
208-332-1909

- PROJECT GENERAL NOTES:
- ALL BUILDINGS ON CSI CAMPUS ARE TO REMAIN 100% OWNER OCCUPIED. BUILDING EXITING AND SECURITY SHALL BE MAINTAINED DURING CONSTRUCTION.
 - ACCESS CONTROL SYSTEM AND SECURITY CAMERA SYSTEM SHALL OPERATE ON EXISTING DARK FIBER AS INSTALLED ON CSI CAMPUS. FIELD VERIFY EXISTING DARK FIBER SYSTEM PRIOR TO BID TO VERIFY FUNCTIONALITY AND FIBER OPTIC TYPE.

NO.	REVISIONS	DATE



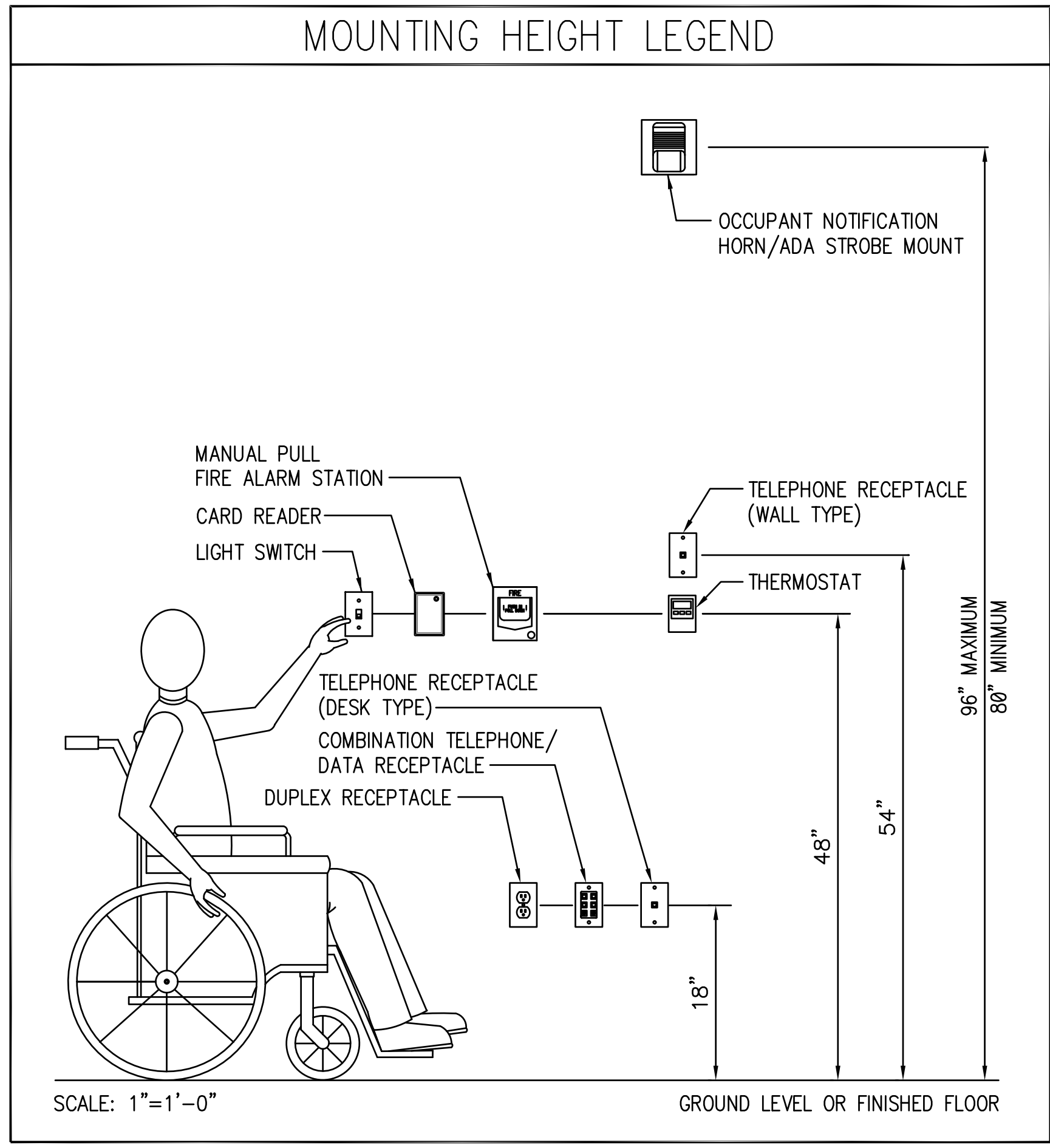
MUSGROVE ENGINEERING P.A.
25th Street and Hwy
Boise, ID 83705
208-384-0858
645 West 25th Street
Idaho Falls, ID 83404
www.musgrovepa.com



DPW PROJECT 19107
CSI: ENTRY ACCESS CONTROLS, PHASE II
COLLEGE OF SOUTHERN IDAHO
TWIN FALLS, ID

PROJECT	B18-112
DRAWN	DBH
CHECKED	MNB
DATE	JULY 2024
SCALE	AS SHOWN
SHEET	

T1.0



ABBREVIATIONS

A	AMPERE(S)
AL	ALUMINUM
AIC	AMPERE INTERRUPTING CAPACITY
AWG	AMERICAN WIRE GAUGE
BC	BARE COPPER
C	CONDUIT
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CT	CURRENT TRANSFORMER
CU	COPPER
DISC	DISCONNECT
DWG	DRAWING
EMT	ELECTRICAL METALLIC TUBING
HZ	FREQUENCY IN CYCLES PER SECOND
F	FUSE
FS	FUSIBLE SWITCH
GEN	GENERATOR
GFI	GROUND FAULT INTERRUPTER
GND	GROUND
HP	HORSEPOWER
HPS	HIGH PRESSURE SODIUM
IMC	INTERMEDIATE METALLIC CONDUIT
INC	INCANDESCENT
KV	KILOVOLT
KVA	KILOWATT VOLT AMPS
KW	KILOWATT(S)
KCMIL	THOUSAND CIRCULAR MIL(S)
LX	LATCH BOLT MONITORING
MCA	MINIMUM CIRCUIT AMPS
MCC	MOTOR CONTROL CENTER
MLO	MAIN LUG ONLY
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NEC	NATIONAL ELECTRIC CODE
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
PNL	PANEL
PVC	POLYVINYL CHLORIDE
QEL	MOTORIZED PUSH PAD HARDWARE
RGS	RIGID GALVANIZED STEEL
RX	REQUEST TO EXIT
SWBD	SWITCHBOARD
XMFR	TRANSFORMER
TYP	TYPICAL
UG	UNDERGROUND
UNO	UNLESS NOTED OTHERWISE
UPS	UNINTERRUPTED POWER SYSTEM
V	VOLT(S)
VA	VOLTAMP(S)
W	WATT(S)
WP	WEATHER PROOF

DATA/COMMUNICATIONS LEGEND

◀#	DATA JACK, +18" UNLESS NOTED OTHERWISE # INDICATES QUANTITY OF STRUCTURED CABLES TERMINATING ON RJ45 JACK(S) AT FACEPLATE.
◀#	DATA/COMM QUANTITY OF STRUCTURED CABLES TERMINATING ON RJ45 JACK(S) AT FACEPLATE.
◀#	COMMUNICATIONS JACK, +18" UNLESS NOTED OTHERWISE # INDICATES QUANTITY OF STRUCTURED CABLES TERMINATING ON RJ45 JACK(S) AT FACEPLATE.
⊙	ROUGH-IN JUNCTION BOX AT +18", UNLESS NOTED OTHERWISE (ROUGH IN ONLY, NO CABLES)
-W-	SURFACE RACEWAY
⊕	DATA/COMM/POWER FLOOR BOX
⊕	19" 4 POST NETWORK RACK
⊕	19" 2 POST NETWORK RACK
⊕	WALL MOUNTED NETWORK RACK

NOTE: ALL SYMBOLS MAY NOT BE USED ON THIS PROJECT

SECURITY LEGEND

⊕	BULLET CAMERA 1 GRAY CAT6 CABLE c - CEILING MOUNT w - WALL MOUNT WP - WEATHERPROOF
⊕	DOME CAMERA 1 GRAY CAT6 CABLE c - CEILING MOUNT w - WALL MOUNT WP - WEATHERPROOF
☀	PANORAMIC CAMERA 1 GRAY CAT6 CABLE c - CEILING MOUNT
⊕	CARD READER
⊕	ELECTRIC STRIKE - SURFACE
⊕	ELECTRIC STRIKE - RECESSED IN FRAME
⊕	ELECTRIC CRASH BAR
⊕	DOOR CONTACT
⊕	ENERGY TRANSFER HINGE
⊕	ENERGY POWER TRANSFER
⊕	WIRELESS DOOR CONTACT
⊕	MOTION SENSOR REQUEST TO EXIT
⊕	REQUEST TO EXIT
⊕	PANIC BUTTON
⊕	WIRELESS HANDLE SET
⊕	HANDLE SET
⊕	POWER SUPPLY
⊕	ADA ACTUATOR BUTTON
⊕	AUTOMATIC DOOR OPENER

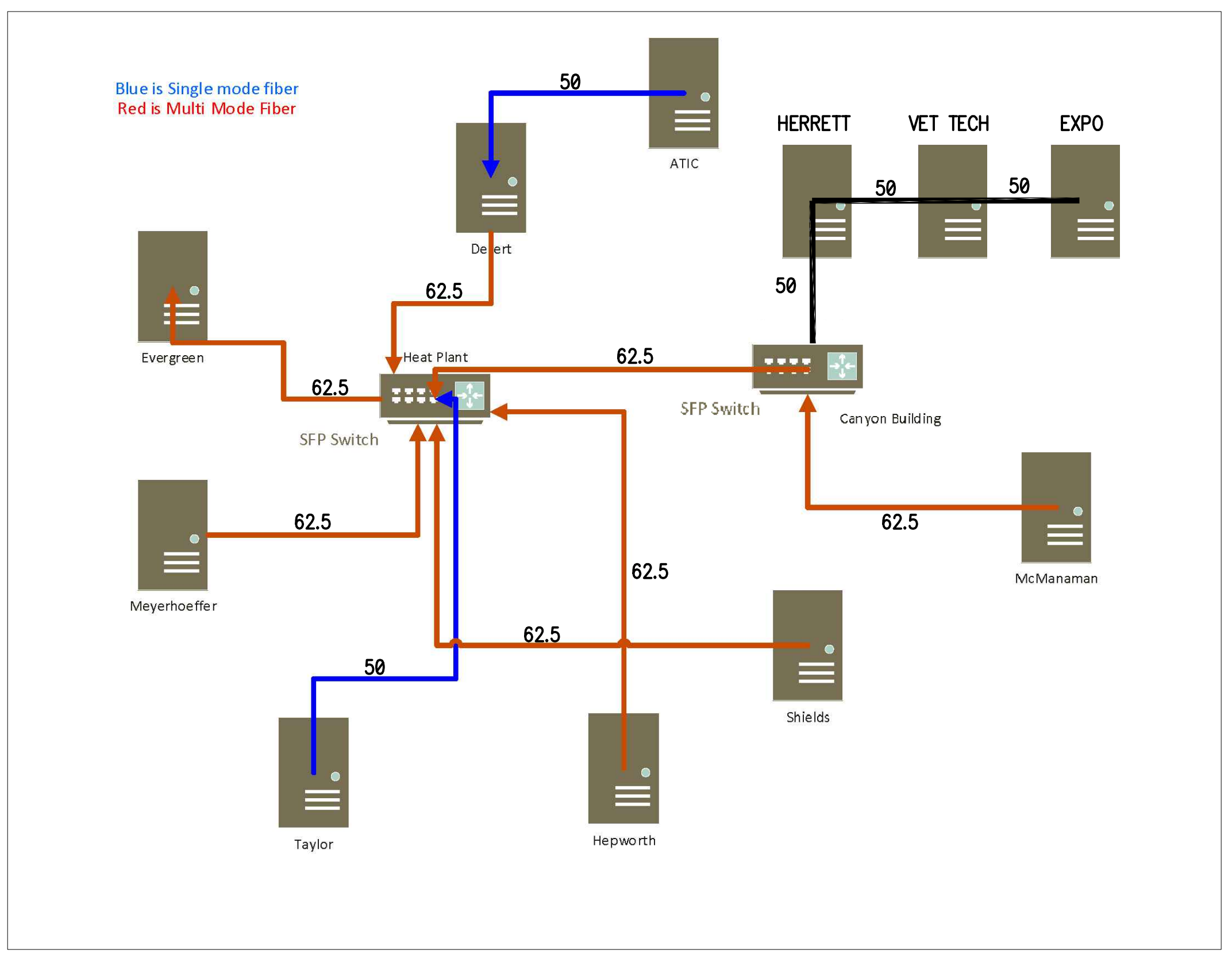
NOTE: ALL SYMBOLS MAY NOT BE USED ON THIS PROJECT

POWER LEGEND

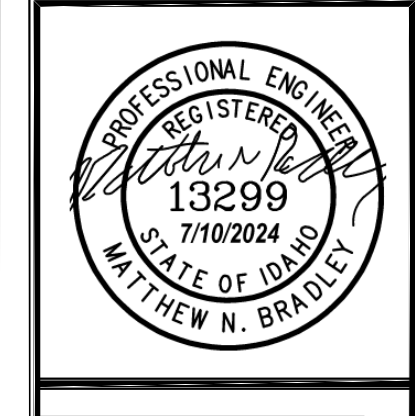
⊕	MANUAL MOTOR STARTER SWITCH
⊕	TIMECLOCK
⊕	CONTACTOR
⊕	IRRIGATION CONTROL PANEL
⊕	DISCONNECT SWITCH POLES, AMPS, AND NEMA ENCLOSURE TYPE AS NOTED
⊕	FUSED DISCONNECT SWITCH POLES, AMPS, NEMA ENCLOSURE TYPE, AND FUSE SIZE AS NOTED
⊕	THERMOSTAT, AT +48 INCHES
⊕	MOTOR F INDICATES FAN (FRACTIONAL HORSEPOWER) # INDICATES MOTOR SIZE (IN HORSEPOWER)
⊕	JUNCTION BOX
⊕	RECESSED AUDIO SPEAKER
⊕	VOLUME CONTROL, AT +48 INCHES
-W-	ELECTRICAL PANEL
-W-	SURFACE RACEWAY
⊕	DUPLX RECEPTACLE AT +18 INCHES UNLESS NOTED OTHERWISE
⊕	GFI GROUND FAULT INTERRUPTER C MOUNTED ON CEILING SPD SURGE SUPPRESSION WP IN-USE WEATHERPROOF RATED COVER WITH WEATHER RESISTANT GFI RECEPTACLE
⊕	DOUBLE DUPLX RECEPTACLE AT +18 INCHES UNLESS NOTED OTHERWISE
⊕	GFI GROUND FAULT INTERRUPTER C MOUNTED ON CEILING SPD SURGE SUPPRESSION WP IN-USE WEATHERPROOF RATED COVER WITH WEATHER RESISTANT GFI RECEPTACLE
⊕	DATA/COMM/POWER FLOOR BOX
⊕	RECESSED ENTERTAINMENT BOX
⊕	CARD READER BOX
⊕	TELEVISION DUPLX RECEPTACLE AND CABLE JUNCTION BOX LOCATION
⊕	30A, 250V SPECIAL PURPOSE RECEPTACLE VERIFY NEMA PLUG TYPE REQUIRED PRIOR TO INSTALLATION
⊕	50A, 250V SPECIAL PURPOSE RECEPTACLE VERIFY NEMA PLUG TYPE REQUIRED PRIOR TO INSTALLATION

NOTE: ALL SYMBOLS MAY NOT BE USED ON THIS PROJECT

All reach ranges to be as per the 2009 ANSI A117.1



NO.	REVISIONS	DATE



MUSGROVE
ENGINEERING, P.A.
2340 W. 24th Street
Twin Falls, ID 83430
208.384.0355
idahofiber@musgrove.com
www.musgrove.com

MTI

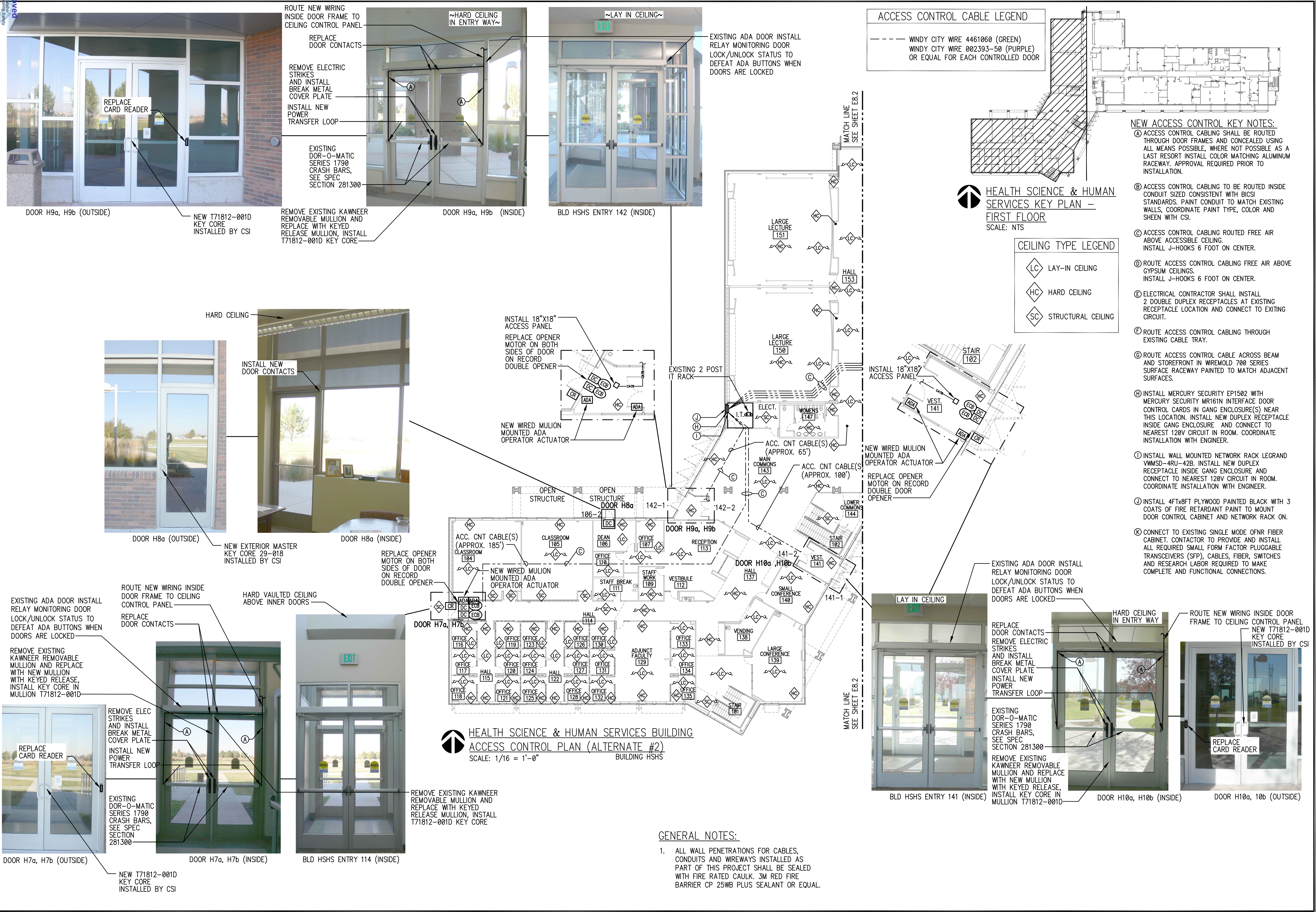
OVER 40 YEARS OF EXCELLENCE

DPW PROJECT 19107
CSI: ENTRY ACCESS CONTROLS, PHASE II
COLLEGE OF SOUTHERN IDAHO
TWIN FALLS, ID

PROJECT	B18-112
DRAWN	DBH
CHECKED	MNB
DATE	JULY 2024
SCALE	AS SHOWN
SHEET	

T1.1

Approved
 State of Idaho
 Professional Engineer
 License No. 13299
 Matthew N. Bridley
 7/10/2024
 State of Idaho
 Professional Engineer
 License No. 13299
 Matthew N. Bridley
 7/10/2024
 State of Idaho
 Professional Engineer
 License No. 13299
 Matthew N. Bridley
 7/10/2024



ACCESS CONTROL CABLE LEGEND

- - - WINDY CITY WIRE 4461060 (GREEN)
 - - - WINDY CITY WIRE 002393-50 (PURPLE)
 OR EQUAL FOR EACH CONTROLLED DOOR

HEALTH SCIENCE & HUMAN SERVICES KEY PLAN - FIRST FLOOR
 SCALE: NTS

CEILING TYPE LEGEND

- LC LAY-IN CEILING
- HC HARD CEILING
- SC STRUCTURAL CEILING

- NEW ACCESS CONTROL KEY NOTES:**
- ACCESS CONTROL CABLING SHALL BE ROUTED THROUGH DOOR FRAMES AND CONCEALED USING ALL MEANS POSSIBLE, WHERE NOT POSSIBLE AS A LAST RESORT INSTALL COLOR MATCHING ALUMINUM RACEWAY. APPROVAL REQUIRED PRIOR TO INSTALLATION.
 - ACCESS CONTROL CABLING TO BE ROUTED INSIDE CONDUIT SIZED CONSISTENT WITH BICSI STANDARDS. PAINT CONDUIT TO MATCH EXISTING WALLS, COORDINATE PAINT TYPE, COLOR AND SHEEN WITH CSI.
 - ACCESS CONTROL CABLING ROUTED FREE AIR ABOVE ACCESSIBLE CEILING. INSTALL J-HOOKS 6 FOOT ON CENTER.
 - ROUTE ACCESS CONTROL CABLING FREE AIR ABOVE GYPSUM CEILINGS. INSTALL J-HOOKS 6 FOOT ON CENTER.
 - ELECTRICAL CONTRACTOR SHALL INSTALL 2 DOUBLE DUPLEX RECEPTACLES AT EXISTING RECEPTACLE LOCATION AND CONNECT TO EXISTING CIRCUIT.
 - ROUTE ACCESS CONTROL CABLING THROUGH EXISTING CABLE TRAY.
 - ROUTE ACCESS CONTROL CABLE ACROSS BEAM AND STOREFRONT IN WIREMOLD 700 SERIES SURFACE RACEWAY PAINTED TO MATCH ADJACENT SURFACES.
 - INSTALL MERCURY SECURITY EP1502 WITH MERCURY SECURITY MR1616N INTERFACE DOOR CONTROL CARDS IN GANG ENCLOSURE(S) NEAR THIS LOCATION. INSTALL NEW DUPLEX RECEPTACLE INSIDE GANG ENCLOSURE AND CONNECT TO NEAREST 120V CIRCUIT IN ROOM. COORDINATE INSTALLATION WITH ENGINEER.
 - INSTALL WALL MOUNTED NETWORK RACK LEGRAND WMSD-4RU-42B. INSTALL NEW DUPLEX RECEPTACLE INSIDE GANG ENCLOSURE AND CONNECT TO NEAREST 120V CIRCUIT IN ROOM. COORDINATE INSTALLATION WITH ENGINEER.
 - INSTALL 4FTx8FT PLYWOOD PAINTED BLACK WITH 3 COATS OF FIRE RETARDANT PAINT TO MOUNT DOOR CONTROL CABINET AND NETWORK RACK ON.
 - CONNECT TO EXISTING SINGLE MODE OFNR FIBER CABINET. CONTRACTOR TO PROVIDE AND INSTALL ALL REQUIRED SMALL FORM FACTOR PLUGGABLE TRANSCEIVERS (SFP), CABLES, FIBER, SWITCHES AND RESEARCH LABOR REQUIRED TO MAKE COMPLETE AND FUNCTIONAL CONNECTIONS.

HEALTH SCIENCE & HUMAN SERVICES BUILDING
ACCESS CONTROL PLAN (ALTERNATE #2)
 SCALE: 1/16 = 1'-0" BUILDING HSHS

- GENERAL NOTES:**
- ALL WALL PENETRATIONS FOR CABLES, CONDUITS AND WIREWAYS INSTALLED AS PART OF THIS PROJECT SHALL BE SEALED WITH FIRE RATED CAULK, 3M RED FIRE BARRIER CP 25WB PLUS SEALANT OR EQUAL.

NO.	REVISIONS	DATE

PROFESSIONAL ENGINEER
 Matthew N. Bridley
 License No. 13299
 7/10/2024
 STATE OF IDAHO
 MATTHEW N. BRIDLEY

MUSGROVE ENGINEERING, P.A.
 2440 West Valley Blvd. ID 83705
 208.384.1055
 645 West 24th Street Idaho Falls, ID 83402
 www.musgrove.com

ML

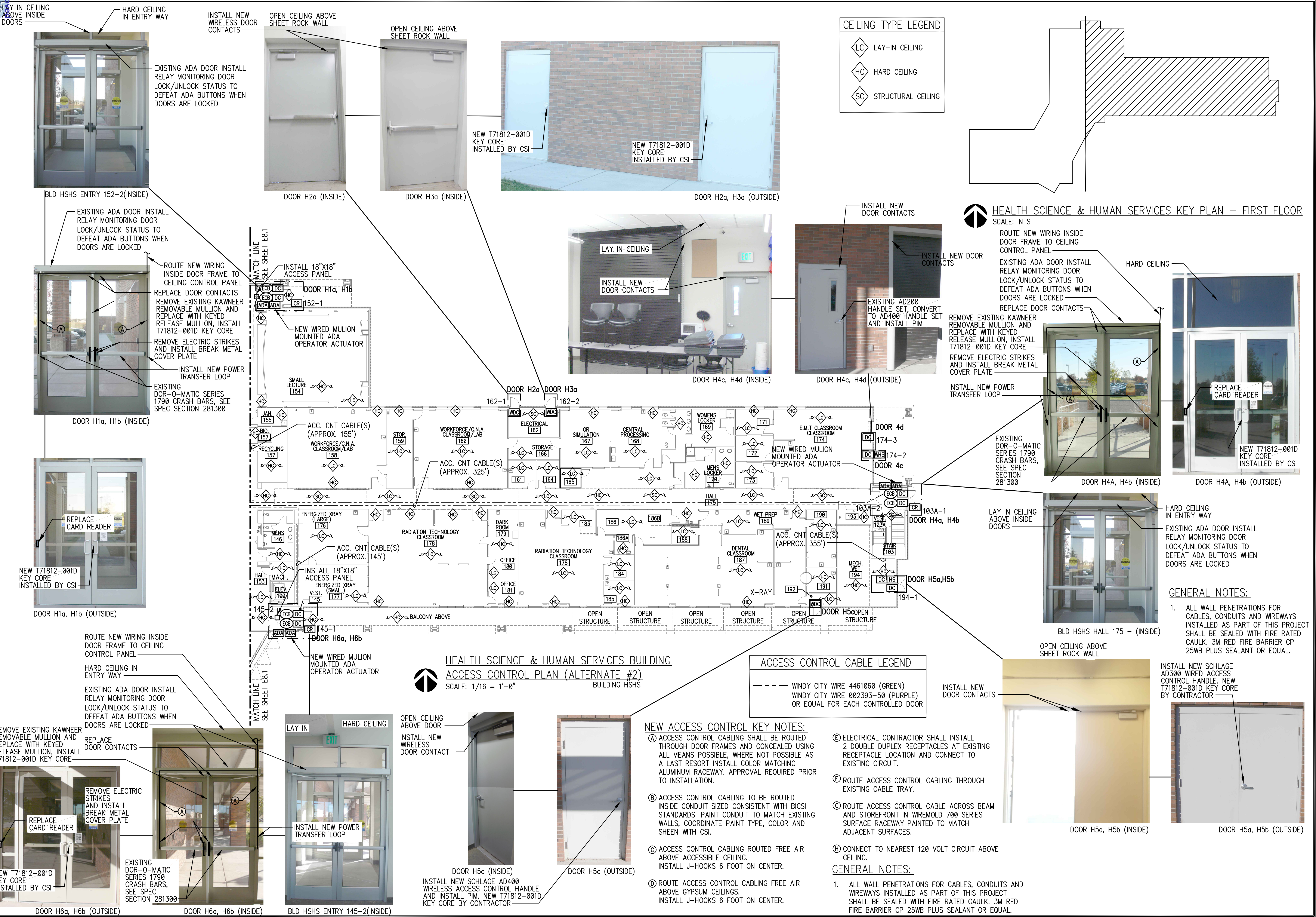
OVER 40 YEARS OF EXCELLENCE

DPW PROJECT 19107
CSI: ENTRY ACCESS CONTROLS, PHASE II
COLLEGE OF SOUTHERN IDAHO
TWIN FALLS, ID

PROJECT	B18-112
DRAWN	DBH
CHECKED	MNB
DATE	JULY 2024
SCALE	AS SHOWN
SHEET	

E8.1

Approved for Construction
 Date: 7/10/2024
 Project: DPW PROJECT 19107
 Drawing: E8.2



NO.	REVISIONS	DATE

PROFESSIONAL ENGINEER
 Matthew N. Bradley
 13299
 7/10/2024
 STATE OF IDAHO
 MATTHEW N. BRADLEY

MUSGROVE
 ENGINEERING, P.A.
 234 S. Idaho Street
 208-388-1055
 445 West 24th Street
 Idaho Falls, ID 83402
 www.musgrove.com

OVER 40 YEARS OF EXCELLENCE

DPW PROJECT 19107
CSI: ENTRY ACCESS CONTROLS, PHASE II
COLLEGE OF SOUTHERN IDAHO
TWIN FALLS, ID

PROJECT	B18-112
DRAWN	DBH
CHECKED	MNB
DATE	JULY 2024
SCALE	AS SHOWN
SHEET	E8.2

CAMERA SCHEDULE (MINIMUM SPECIFICATIONS)

SYMBOL	FORM FACTOR	FIELD OF VIEW	LENS	SHUTTER SPEED	RESOLUTION	FRAMES PER SECOND	MINIMUM ILLUMINATION	POWER INPUT	HOUSING	OPERATING TEMPERATURE
I1	INTERIOR FIXED DOME	H: 105-36 / V: 57-21	3-9 MM, F1.3	1/62500S - 2S	H.264	30	.07 LUX @ F1.6 (COLOR)	DC 12V	IP52	-50 C TO 60 C

CAMERA CABLE LEGEND

— CAT6 — WINDY CITY WIRE 5566080/23-4P (GRAY) OR EQUAL FOR EACH CAMERA

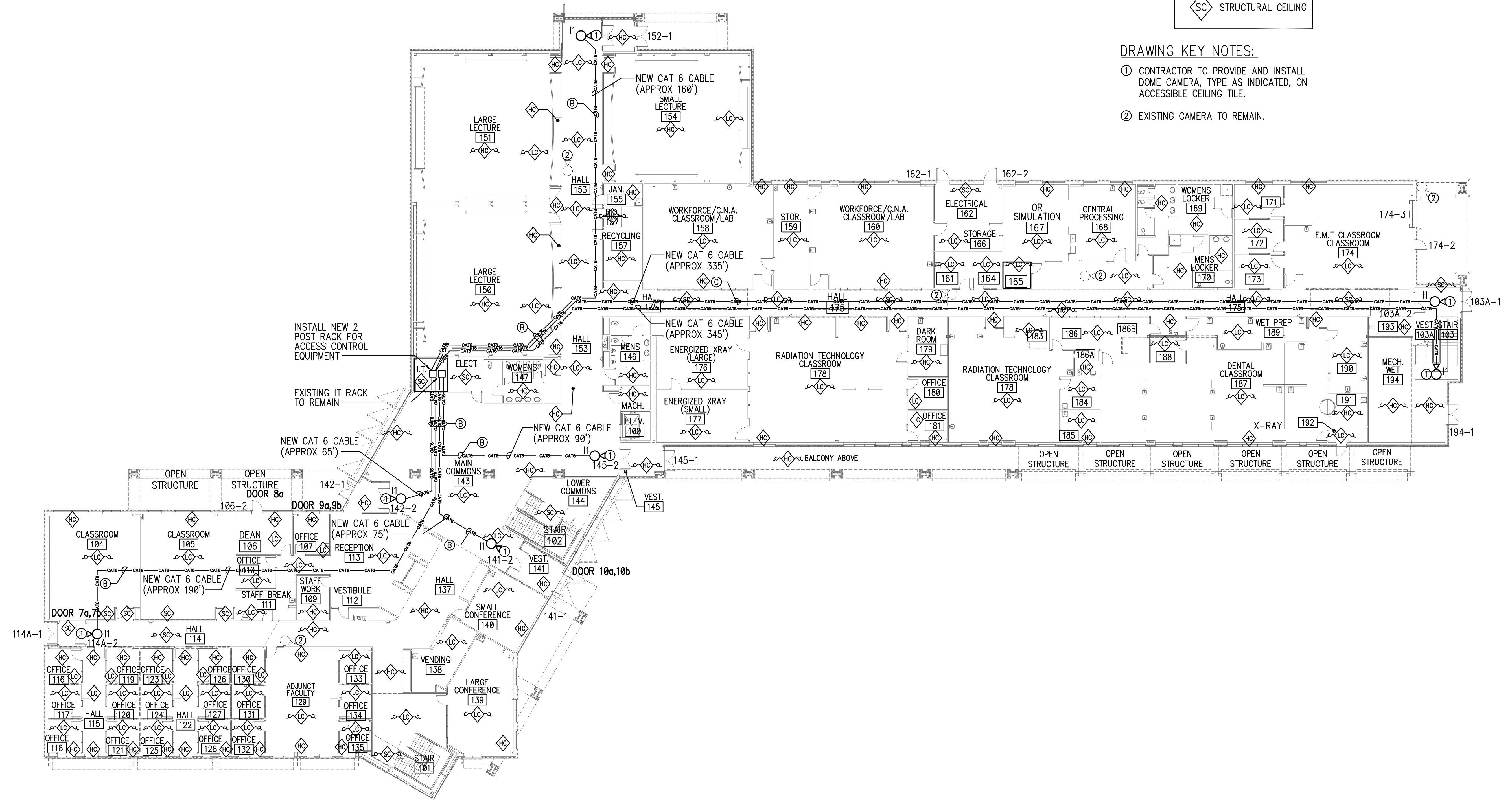
CEILING TYPE LEGEND

◇ LC LAY-IN CEILING
 ◇ HC HARD CEILING
 ◇ SC STRUCTURAL CEILING

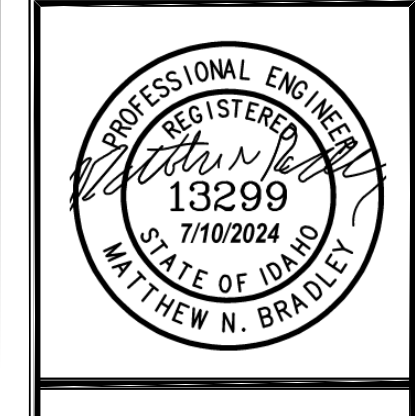
- #### SECURITY CAMERA KEY NOTES:
- Ⓐ SECURITY CAMERA CABLING TO BE ROUTED INSIDE CONDUIT SIZED CONSISTENT WITH BICSI STANDARDS.
 - Ⓑ SECURITY CAMERA CABLING ROUTED FREE AIR ABOVE ACCESSIBLE CEILING. INSTALL J-HOOKS 6 FOOT ON CENTER
 - Ⓒ ROUTE SECURITY CAMERA CABLING INSIDE CONDUIT SIZED CONSISTENT WITH BICSI STANDARDS ALONG TOP OF BEAM ACROSS HALLWAY.

- #### GENERAL NOTES:
1. ALL WALL PENETRATIONS FOR CABLES, CONDUITS AND WIREWAYS INSTALLED AS PART OF THIS PROJECT SHALL BE SEALED WITH FIRE RATED CAULK. 3M RED FIRE BARRIER CP 25WB PLUS SEALANT OR EQUAL.

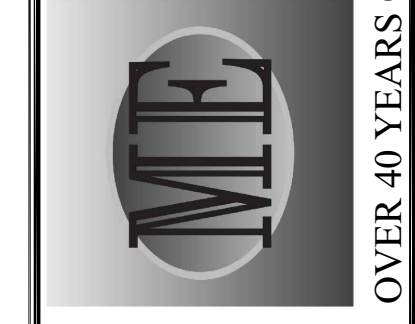
- #### DRAWING KEY NOTES:
- ① CONTRACTOR TO PROVIDE AND INSTALL DOME CAMERA. TYPE AS INDICATED, ON ACCESSIBLE CEILING TILE.
 - ② EXISTING CAMERA TO REMAIN.



NO.	REVISIONS	DATE



MUSGROVE ENGINEERING, P.A.
 2345 W. Highway 200
 Boise, ID 83726
 208.388.1055
 645 West 24th Street
 Idaho Falls, ID 83402
 www.musgrovepa.com



DPW PROJECT 19107
 CSI: ENTRY ACCESS CONTROLS, PHASE II
 COLLEGE OF SOUTHERN IDAHO
 TWIN FALLS, ID

PROJECT	B18-112
DRAWN	DBH
CHECKED	MNB
DATE	JULY 2024
SCALE	AS SHOWN
SHEET	

E8.3

DPW PROJECT 19107

CSI: ENTRY ACCESS CONTROLS PHASE 2

COLLEGE OF SOUTHERN IDAHO

TWIN FALLS, ID



These plans have been reviewed for code compliance based on the submitted documents and plan sheets, and have been found, to be, substantially code compliant, all other code compliance requirements shall be completed through field inspections, verifications, and approvals by the field building inspector.

See Plan Review notes: The plan review notes shall always be attached to the stamped approved plans and documents. These are part of the plans and shall be a permanent record with the plans. Inspection shall not take place without a complete set of the Idaho Division of Occupational and Professional Licenses (IDOPL) plan review notes and approved, stamped plans on site.

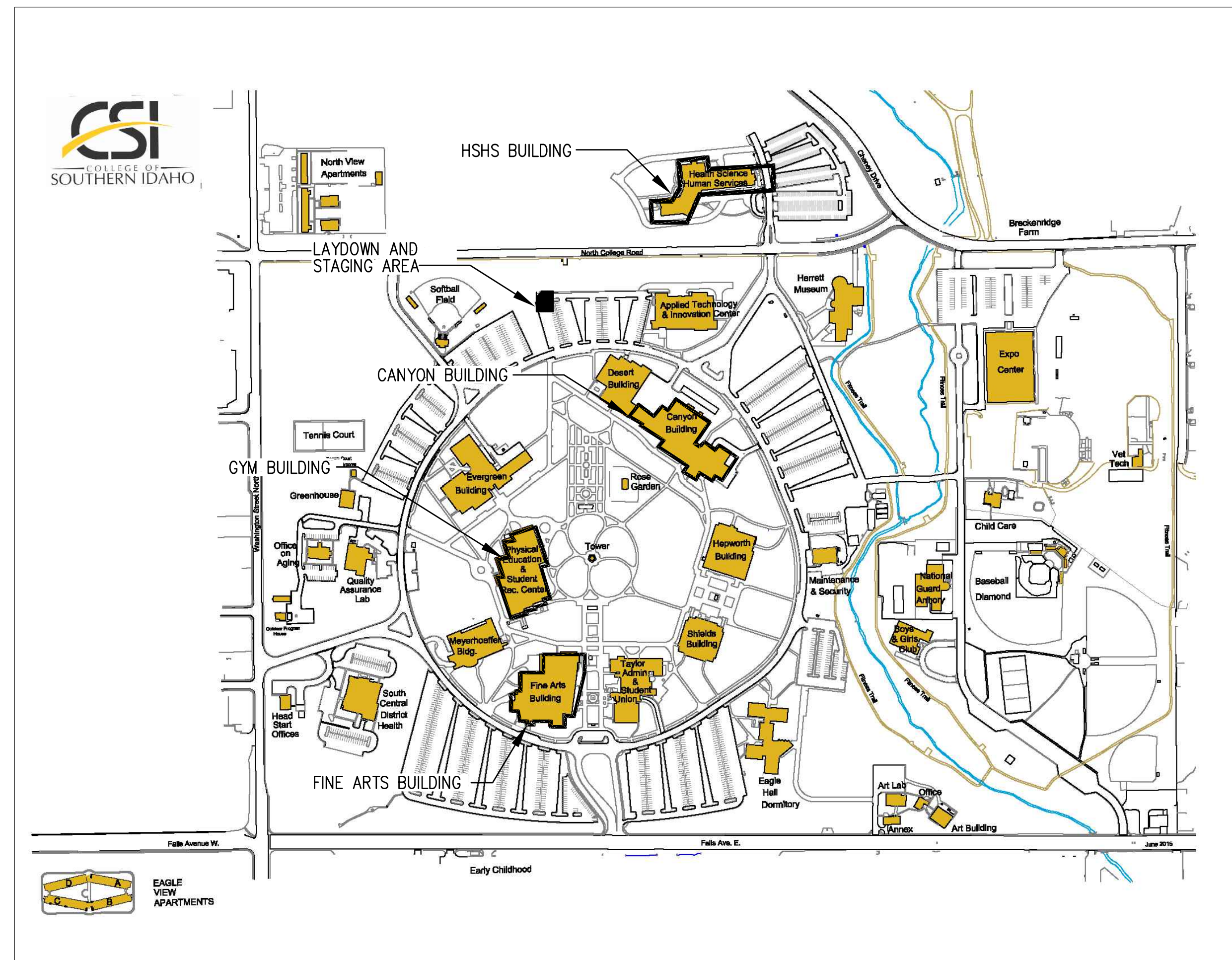
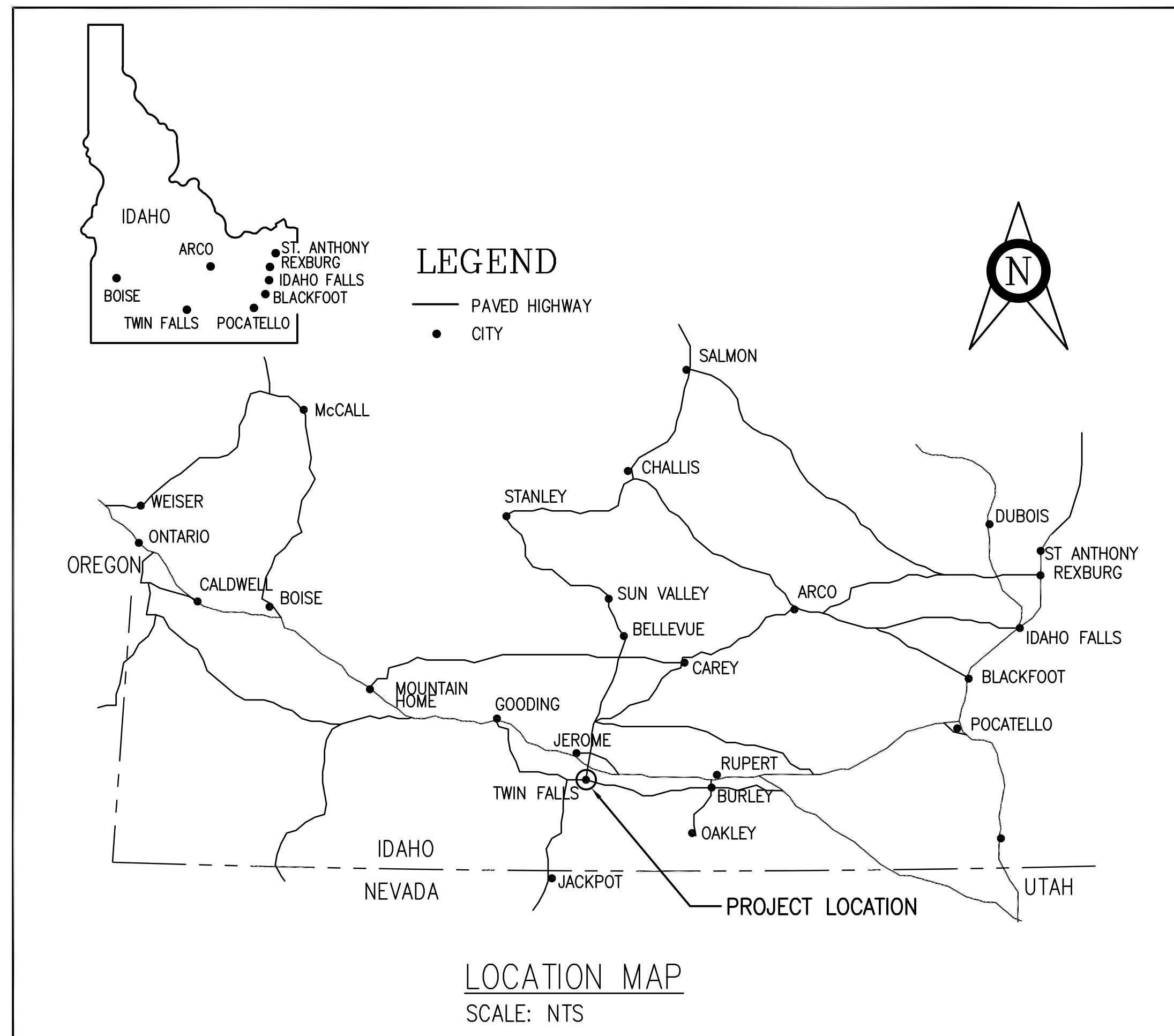
LIST OF DRAWINGS	
T1.0	ELECTRICAL TITLE SHEET
T1.1	ELECTRICAL LEGENDS SHEET & FIBER MAP
PHYSICAL EDUCATION BUILDING (ALTERNATE #3)	
E11.1	LOWER FLOOR ACCESS CONTROL PLAN
E11.2	UPPER FLOOR ACCESS CONTROL PLAN
E11.3	UPPER FLOOR ACCESS CONTROL PLAN
E11.4	UPPER FLOOR ACCESS CONTROL PLAN
E11.5	IT ROOM 230 DATA RACK
E11.6	SECURITY CAMERA PLAN

CODES	
INTERNATIONAL BUILDING CODE	- 2018 OF IDAHO
EXISTING INTERNATIONAL BUILDING CODE	- 2009 2018
IDAHO ENERGY CONSERVATION CODE	- 2018 OF IDAHO
NATIONAL ELECTRIC CODE	- 2017 OF IDAHO ← 2023 NEC

Installation of fiber optic wiring to comply with NEC 770

Penetrations thru walls, floor or ceiling to be fire stopped per NEC 300.21

Construction safeguards shall be required for any and all demolition and or construction to ensure public safety. Required exits, existing structural elements, fire protection devices and sanitary safeguards shall be maintained at all times during alterations, repairs or additions to any building or structure. All applicable construction safeguards from chapter 31 and 33 shall be in place and maintained while any demolition or construction activities are being undertaken.



COLLEGE OF SOUTHERN IDAHO CAMPUS MAP
SCALE: NTS

DESIGN PROFESSIONAL CONTACT
MUSGROVE ENGINEERING P.A.
MATTHEW BRADLEY P.E.
645 WEST 25TH STREET
IDAHO FALLS ID 83404
208-523-2862

AGENCY CONTACT
COLLEGE OF SOUTHERN IDAHO
THEO SCHUT
315 FALLS AVE
TWIN FALLS ID 83301
208-732-6610

OWNER CONTACT
IDAHO DIVISION OF PUBLIC WORKS
JOHN B. PARHAM
502 N 4TH ST
BOISE ID 83702
208-332-1909

PROJECT GENERAL NOTES:

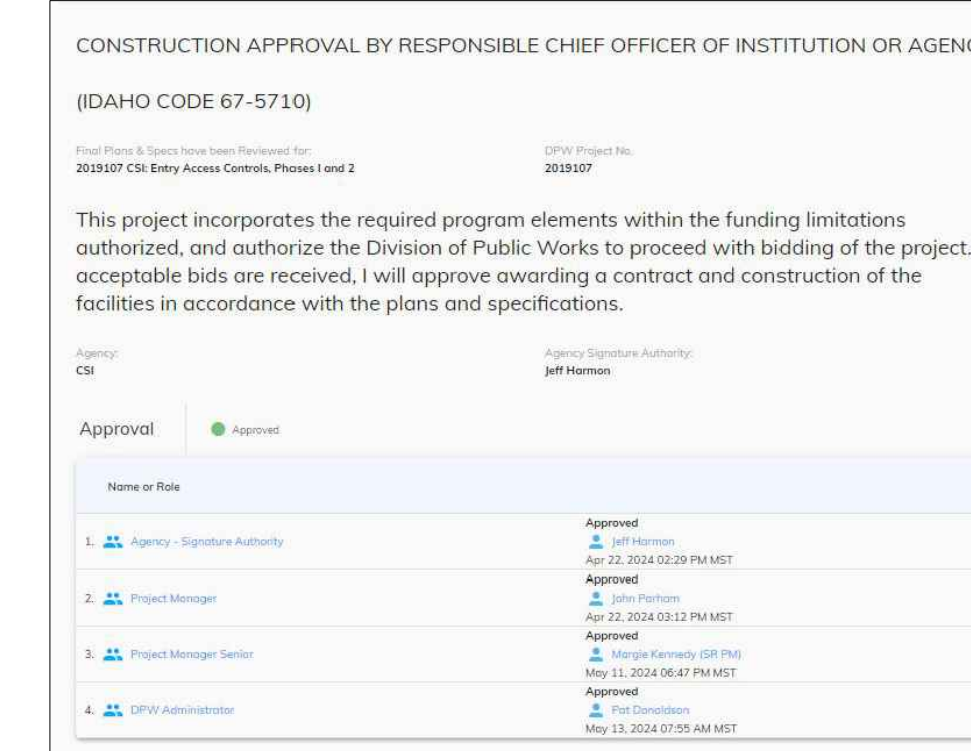
- ALL BUILDINGS ON CSI CAMPUS ARE TO REMAIN 100% OWNER OCCUPIED. BUILDING EXITING AND SECURITY SHALL BE MAINTAINED DURING CONSTRUCTION.
- ACCESS CONTROL SYSTEM AND SECURITY CAMERA SYSTEM SHALL OPERATE ON EXISTING DARK FIBER AS INSTALLED ON CSI CAMPUS. FIELD VERIFY EXISTING DARK FIBER SYSTEM PRIOR TO BID TO VERIFY FUNCTIONALITY AND FIBER OPTIC TYPE.

Penetrations Note

It is the responsibility of the design professional, contractor, and or builder to notify the building department of any alteration, addition, or removal of any building component, that is not in the scope of this approved plan and permit, whether structural, or not, as a modification of plans, for review and inspection.

Any penetrations, whether a membrane penetration or through penetration of any horizontal assemblies, smoke assemblies, fire-resistance-rated wall assemblies, and fire-resistance-rated floor, and or ceiling assemblies must be protected and inspected if penetrated.

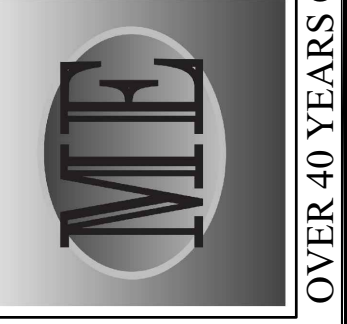
The provisions of chapter 7, of the 2018 IBC shall govern the materials and methods of construction used to protect duct penetrations, through penetrations and membrane penetrations of rated assemblies. A building permit for the inspection of such alterations, penetrations and protections shall be made, and building inspections called for approval.



NO.	REVISIONS	DATE



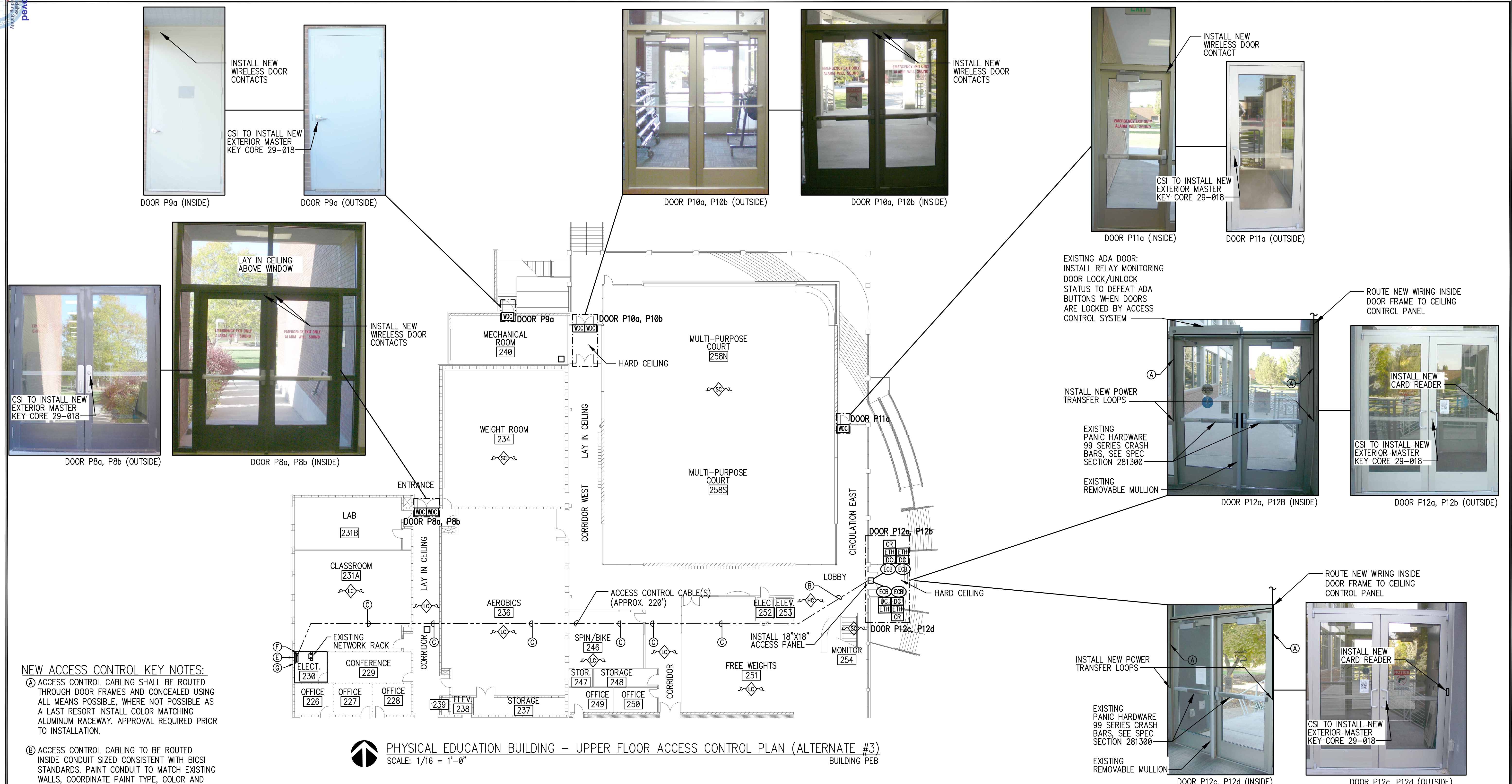
MUSGROVE ENGINEERING P.A.
25th Street and Hwy
Boise, ID 83705
208-384-0858
645 West 25th Street
Idaho Falls, ID 83404
www.musgrovepa.com



DPW PROJECT 19107
CSI: ENTRY ACCESS CONTROLS, PHASE II
COLLEGE OF SOUTHERN IDAHO
TWIN FALLS, ID

PROJECT	B18-112
DRAWN	DBH
CHECKED	MNB
DATE	JULY 2024
SCALE	AS SHOWN
SHEET	

T1.0



PHYSICAL EDUCATION BUILDING - UPPER FLOOR ACCESS CONTROL PLAN (ALTERNATE #3)
 SCALE: 1/16" = 1'-0"
 BUILDING PEB

NEW ACCESS CONTROL KEY NOTES:

- Ⓐ ACCESS CONTROL CABLING SHALL BE ROUTED THROUGH DOOR FRAMES AND CONCEALED USING ALL MEANS POSSIBLE, WHERE NOT POSSIBLE AS A LAST RESORT INSTALL COLOR MATCHING ALUMINUM RACEWAY. APPROVAL REQUIRED PRIOR TO INSTALLATION.
- Ⓑ ACCESS CONTROL CABLING TO BE ROUTED INSIDE CONDUIT SIZED CONSISTENT WITH BICSI STANDARDS. PAINT CONDUIT TO MATCH EXISTING WALLS, COORDINATE PAINT TYPE, COLOR AND SHEEN WITH CSI.
- Ⓒ ACCESS CONTROL CABLING ROUTED FREE AIR ABOVE ACCESSIBLE CEILING. INSTALL J-HOOKS 6 FOOT ON CENTER.
- Ⓓ ROUTE ACCESS CONTROL CABLING FREE AIR ABOVE GYPSUM CEILINGS. INSTALL J-HOOKS 6 FOOT ON CENTER.
- Ⓔ INSTALL MERCURY SECURITY EP1502 WITH MERCURY SECURITY MR161N INTERFACE DOOR CONTROL CARDS IN GANG ENCLOSURE(S) NEAR THIS LOCATION. INSTALL NEW DUPLEX RECEPTACLE INSIDE GANG ENCLOSURE AND CONNECT TO NEAREST 120V CIRCUIT IN ROOM. COORDINATE INSTALLATION WITH ENGINEER.
- Ⓕ INSTALL 4FTx8FT PLYWOOD PAINTED BLACK WITH 3 COATS OF FIRE RETARDANT PAINT TO MOUNT DOOR CONTROL CABINET ON.
- Ⓖ INSTALL NEW 120V DUPLEX OUTLETS COORDINATE FINAL LOCATION WITH CSI.

GENERAL NOTES:

1. CONTRACTOR SHALL PROVIDE AND COORDINATE WITH CSI AS TO THE TYPE OF FIBER OPTIC CABLE AND TERMINATION FROM WALL MOUNTED FIBER OPTIC CABINET TO ACCESS CONTROL/VMS SWITCH. COORDINATE INSTALLATION WITH CSI IT DEPARTMENT. CONTRACTOR SHALL PROVIDE ALL REQUIRED SMALL FORM FACTOR TRANSCIVER'S.
2. CONTRACTOR MAY CONSIDER USING A DOOR/WINDOW SUBCONTRACTOR TO DISASSEMBLE STORE FRONT WINDOW AND DOORS TO AID IN HIDING ACCESS CONTROL CABLING.
3. CONTRACTOR SHALL REPLACE ALL CEILING TILE THAT IS DAMAGED BY CONTRACTOR AS PART OF THIS PROJECT. CEILING SHALL MATCH EXISTING TILE FOR THIS BUILDING. USG 4742 2X, OR USG 8223 2X2.
4. ALL WALL PENETRATIONS FOR CABLES, CONDUITS AND WIREWAYS INSTALLED AS PART OF THIS PROJECT SHALL BE SEALED WITH FIRE RATED CAULK. 3M RED FIRE BARRIER CP 25WB PLUS SEALANT OR EQUAL.

ACCESS CONTROL CABLE LEGEND

- WINDY CITY WIRE 4461060 (GREEN)
- WINDY CITY WIRE 002393-50 (PURPLE)
- OR EQUAL FOR EACH CONTROLLED DOOR

CEILING TYPE LEGEND

- Ⓐ LAY-IN CEILING
- Ⓑ HARD CEILING
- Ⓒ STRUCTURAL CEILING

NO.	REVISIONS	DATE

PROFESSIONAL ENGINEER
 REGISTERED
 License No. 13299
 Date of Issue: 7/10/2024
 State of Idaho
 M. T. HEW N. BRADLEY

MUSGROVE ENGINEERING, P.A.
 2345 S. Valley Way
 Boise, ID 83709
 208.388.0055
 Idaho Permit No. 1235402
 Idaho Permit No. 1235402
 www.musgrovepa.com

OVER 40 YEARS OF EXCELLENCE

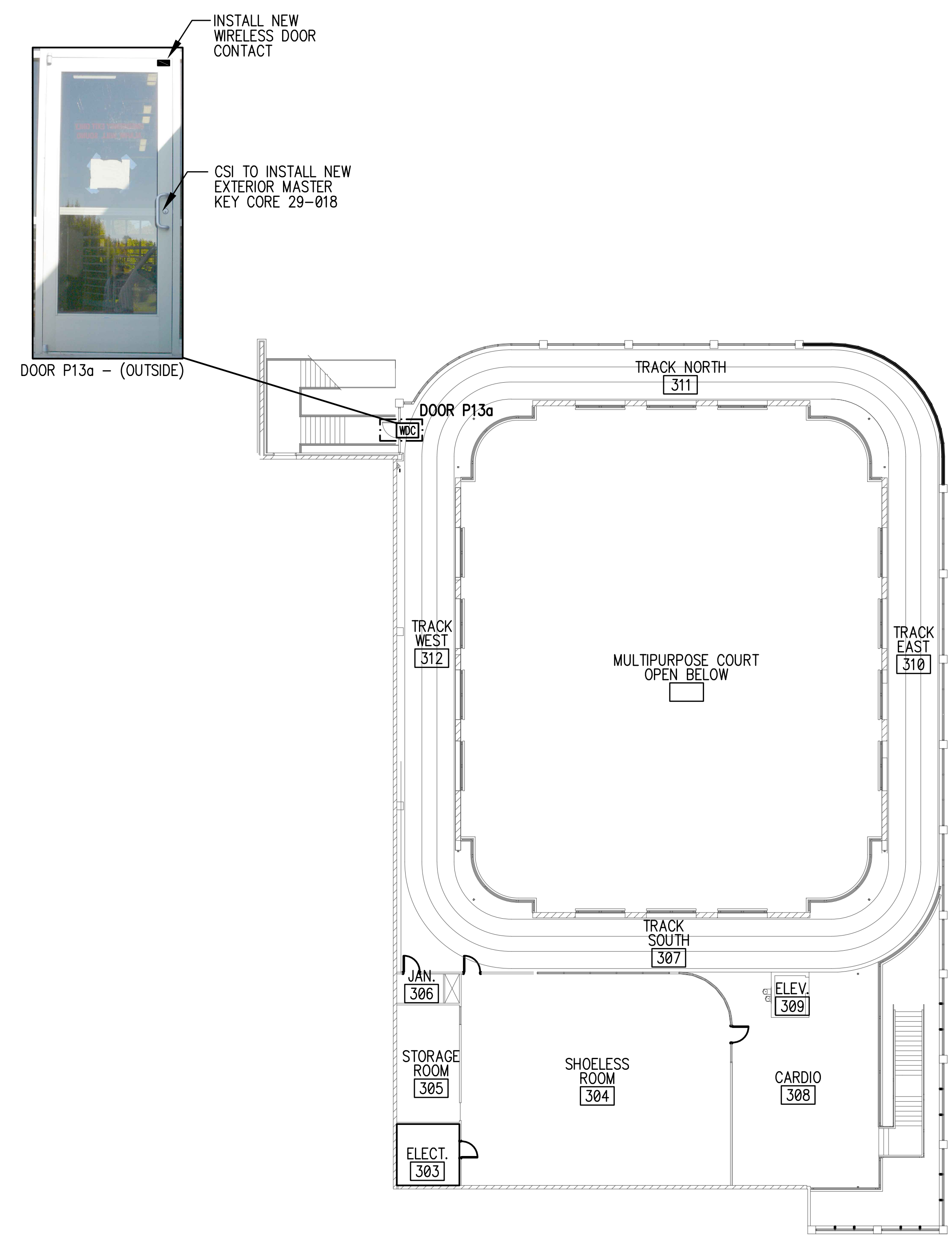
DPW PROJECT 19107
CSI: ENTRY ACCESS CONTROLS, PHASE II
COLLEGE OF SOUTHERN IDAHO
TWIN FALLS, ID

PROJECT	B18-112
DRAWN	DBH
CHECKED	MNB
DATE	JULY 2024
SCALE	AS SHOWN
SHEET	

E11.3

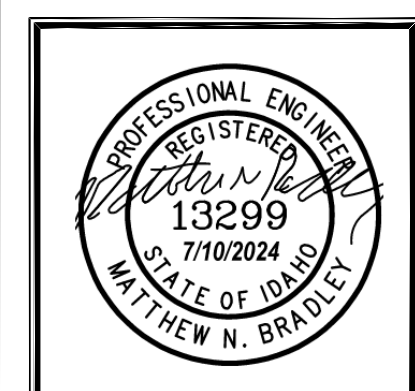
Approved
 State of Idaho
 Statewide Safety
 Council
 Approved for use in a building permit

GENERAL NOTES:
 1. ALL WALL PENETRATIONS FOR CABLES, CONDUITS AND WIREWAYS INSTALLED AS PART OF THIS PROJECT SHALL BE SEALED WITH FIRE RATED CAULK. 3M RED FIRE BARRIER CP 25WB PLUS SEALANT OR EQUAL.



PHYSICAL EDUCATION BUILDING – UPPER FLOOR ACCESS CONTROL PLAN (ALTERNATE #3)
 SCALE: 1/16" = 1'-0"
 BUILDING PEB

NO.	REVISIONS	DATE



MUSGROVE ENGINEERING, P.A.
 2345 W. Valley Road, ID 83705
 208.384.4055
 645 West 2nd Street, Idaho Falls, ID 83402
 www.musgrovepa.com

OVER 40 YEARS OF EXCELLENCE

DPW PROJECT 19107
 CSI: ENTRY ACCESS CONTROLS, PHASE II
 COLLEGE OF SOUTHERN IDAHO
 TWIN FALLS, ID

PROJECT	B18-112
DRAWN	DBH
CHECKED	MNB
DATE	JULY 2024
SCALE	AS SHOWN
SHEET	

E11.4

Approved
State of Idaho
Professional Engineer
No. 13299
Date 7/10/2024
M. TATE OF IDAHO
M. TATE N. BRADLEY

HARDWARE GROUP NO. P1:

FOR USE ON DOOR #(S):

P1a	P11a	P13a	QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
			1	EA WIRELESS DOOR CONTACT AND RECEIVER	INOVONICS EN1210W PROVIDED BY SECURITY SYSTEM INSTALLER.	WHITE	INN
					INOVONICS EN4204R RECEIVERS, QUANTITY AS REQUIRED FOR FUNCTIONAL SYSTEM		
					CSI STANDARDIZED PRODUCT		

HARDWARE GROUP NO. P2:

FOR USE ON DOOR #(S):

P1a, b	P8a, b	P10a, b	QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
			2	EA WIRELESS DOOR CONTACT AND RECEIVER	INOVONICS EN1210W PROVIDED BY SECURITY SYSTEM INSTALLER.	WHITE	INN
					INOVONICS EN4204R RECEIVERS, QUANTITY AS REQUIRED FOR FUNCTIONAL SYSTEM		
					CSI STANDARDIZED PRODUCT		

HARDWARE GROUP NO. P3:

FOR USE ON DOOR #(S):

P2a, b, c, d, e	P7a, b	QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
		5	EA ELECTRIFIED LATCH RETRACTION DEVICE WITH BUILT IN REQUEST TO EXIT AND FIELD INSTALLED LATCH BOLT MONITOR KIT	COMMAND ACCESS TECH. MLRK1-VD + VDLMBKIT-ED		CAT
				CSI STANDARDIZED PRODUCT		
		5	EA ENERGY TRANSFER HINGE, PIVOT TYPE HINGE	COMMAND ACCESS ETH8WH	DARK BRONZE	CAT
				CSI STANDARDIZED PRODUCT		
		1	EA MULTI-TECH READER	SCHLAGE MT11 12 VDC	BLACK	SCE
				CSI STANDARDIZED PRODUCT		
		5	EA WIRED DOOR CONTACT	ARITECH 1076CW-N PROVIDED BY SECURITY SYSTEM INSTALLER	WHITE	ARI
				CSI STANDARDIZED PRODUCT		

HARDWARE GROUP NO. P6:

FOR USE ON DOOR #(S):

P5a, b, c	P6a, b, c	QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
		3	EA ELECTRIFIED LATCH RETRACTION DEVICE WITH BUILT IN REQUEST TO EXIT AND FIELD INSTALLED LATCH BOLT MONITOR KIT	COMMAND ACCESS TECH. MLRK1-VD + VDLMBKIT-ED		CAT
				CSI STANDARDIZED PRODUCT		
		3	EA ENERGY TRANSFER HINGE, PIVOT TYPE HINGE	COMMAND ACCESS ETH8WH	DARK BRONZE	SCE
				CSI STANDARDIZED PRODUCT		
		1	EA MULTI-TECH READER	SCHLAGE MT11 12 VDC	BLK	SCE
				CSI STANDARDIZED PRODUCT		
		3	EA WIRED DOOR CONTACT	ARITECH 1076CW-N PROVIDED BY SECURITY SYSTEM INSTALLER	WHITE	ARI
				CSI STANDARDIZED PRODUCT		

HARDWARE GROUP NO. P7:

FOR USE ON DOOR #(S):

P12a, b	P12c, d	QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
		2	EA ELECTRIFIED LATCH RETRACTION DEVICE WITH BUILT IN REQUEST TO EXIT AND FIELD INSTALLED LATCH BOLT MONITOR KIT	MLRK1-VD + VDLMBKIT-ED		CAT
				CSI STANDARDIZED PRODUCT		
		2	EA POWER TRANSFER LOOP, BLACK END CAPS	SDC SECURITY PT-2	STAINLESS STEEL	SDC
				CSI STANDARDIZED PRODUCT		
		1	EA MULTI-TECH READER	SCHLAGE MT11 12 VDC	BLK	SCE
				CSI STANDARDIZED PRODUCT		
		2	EA WIRED DOOR CONTACT	ARITECH 1076CW-N PROVIDED BY SECURITY SYSTEM INSTALLER	WHITE	ARI
				CSI STANDARDIZED PRODUCT		

HARDWARE GROUP NO. P4:

FOR USE ON DOOR #(S):

P3a, b, c, d, e, f, g, h, i, j	QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
	10	EA ELECTRIFIED LATCH RETRACTION DEVICE WITH BUILT IN REQUEST TO EXIT AND FIELD INSTALLED LATCH BOLT MONITOR KIT	COMMAND ACCESS TECH. MLRK1-VD + VDLMBKIT-ED		CAT
			CSI STANDARDIZED PRODUCT		
	10	EA ENERGY TRANSFER HINGE, 5 KNUCKLE HINGE	COMMAND ACCESS TECH. ETH12WH	MATCH EXIST	SCE
			CSI STANDARDIZED PRODUCT		
	1	EA MULTI-TECH READER	SCHLAGE MT11 12 VDC	BLACK	SCE
			CSI STANDARDIZED PRODUCT		
	10	EA WIRED DOOR CONTACT	ARITECH 1076CW-N PROVIDED BY SECURITY SYSTEM INSTALLER	WHITE	ARI
			CSI STANDARDIZED PRODUCT		

HARDWARE GROUP NO. P5:

FOR USE ON DOOR #(S):

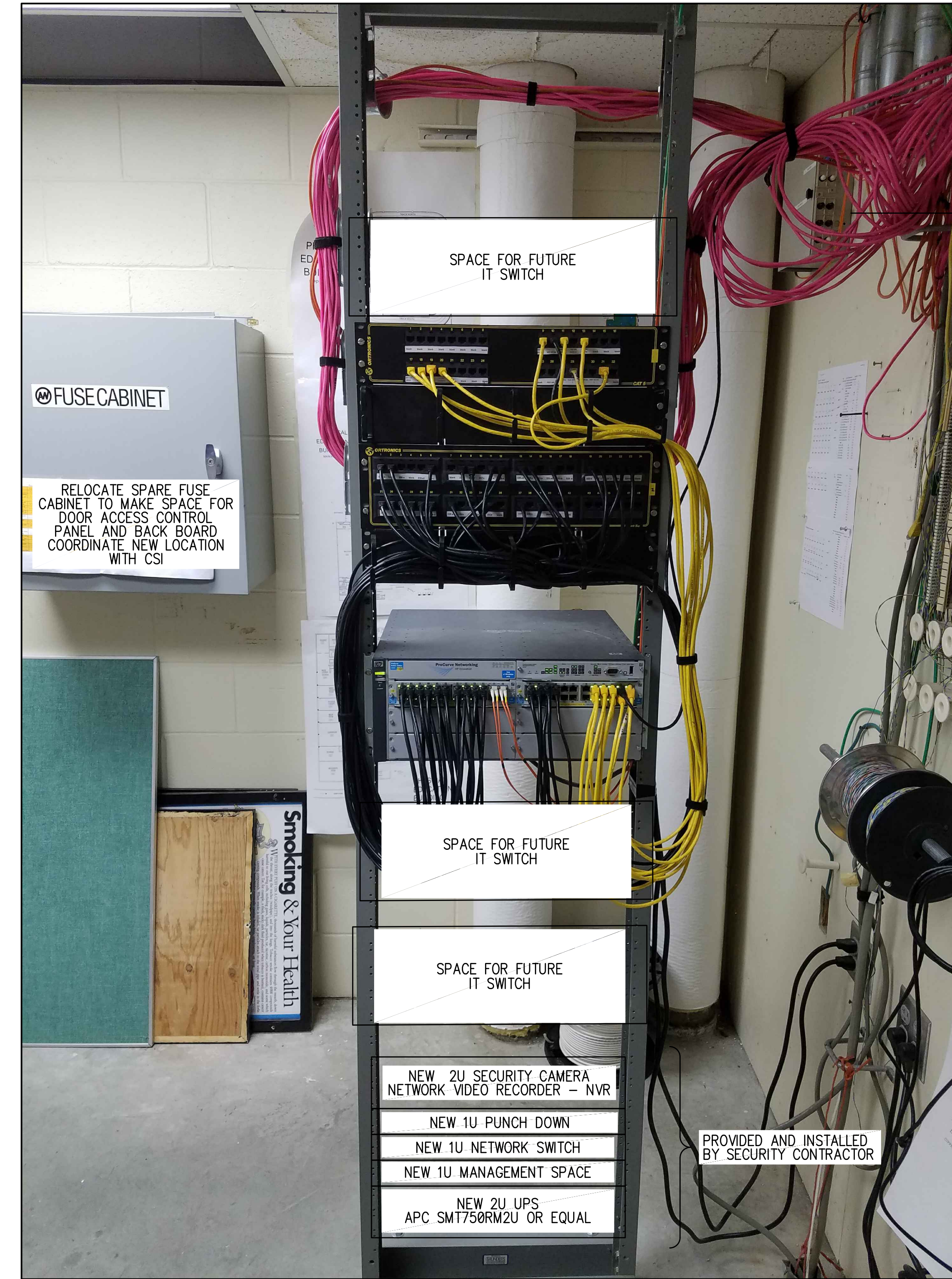
P4a, b	P7a, b	QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
		2	EA ELECTRIFIED LATCH RETRACTION DEVICE WITH BUILT IN REQUEST TO EXIT AND FIELD INSTALLED LATCH BOLT MONITOR KIT	COMMAND ACCESS TECH. MLRK1-VD + VDLMBKIT-ED		CAT
				CSI STANDARDIZED PRODUCT		
		2	EA ENERGY TRANSFER HINGE, PIVOT TYPE HINGE	COMMAND ACCESS ETH8WH	DARK BRONZE	SCE
				CSI STANDARDIZED PRODUCT		
		1	EA MULTI-TECH READER	SCHLAGE MT11 12 VDC	BLK	SCE
				CSI STANDARDIZED PRODUCT		
		2	EA WIRED DOOR CONTACT	ARITECH 1076CW-N PROVIDED BY SECURITY SYSTEM INSTALLER	WHITE	ARI
				CSI STANDARDIZED PRODUCT		

DOOR HARDWARE NOTES

- INSTALLATION CONTRACTOR IS REQUIRED TO SCHEDULE A PROJECT DOOR HARDWARE WALK WITH DOOR HARDWARE DISTRIBUTOR, INSTALLING CONTRACTORS SUPERINTENDENT, CSI PROJECT MANAGER, AND DESIGN PROFESSIONAL PRIOR TO ORDERING DOOR HARDWARE AND INSTALLATION. THE PURPOSE OF THIS DOOR HARDWARE WALK IS TO VERIFY THAT THE DOOR HARDWARE FITMENT IS CORRECT PRIOR TO ORDERING.

GENERAL NOTES:

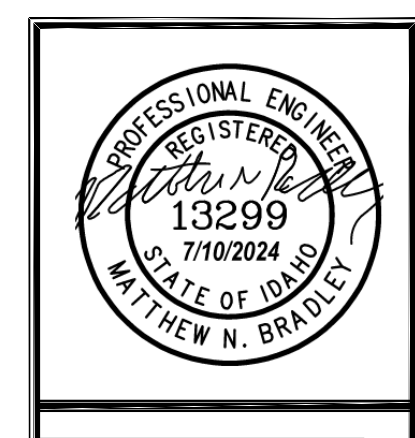
- ALL WALL PENETRATIONS FOR CABLES, CONDUITS AND WIREWAYS INSTALLED AS PART OF THIS PROJECT SHALL BE SEALED WITH FIRE RATED CAULK. 3M RED FIRE BARRIER CP 25WB PLUS SEALANT OR EQUAL.



ELECTRICAL ROOM 230 DATA RACK (ALTERNATE #3)

FIBER PATCH PANEL. OPEN FIBER OPTIC CONNECTION AT POSITIONS 1, 2, 5 AND 6 COORDINATE INSTALLATION WITH CSI IT DEPARTMENT. CONTRACTOR SHALL PROVIDE FIBER PATCH CABLE, AND SFP FOR ACCESS CONTROL NETWORK SWITCH. FIELD VERIFY FIBER OPTIC CABLE TYPE AND SFP REQUIREMENTS PRIOR TO ORDERING AND INSTALLATION.

NO.	REVISIONS	DATE



MUSGROVE ENGINEERING, P.A.
2340 W. 24th Street, Boise, ID 83705
208.384.8358
445 West 24th Street, Idaho Falls, ID 83402
www.musgrovepa.com

MTI

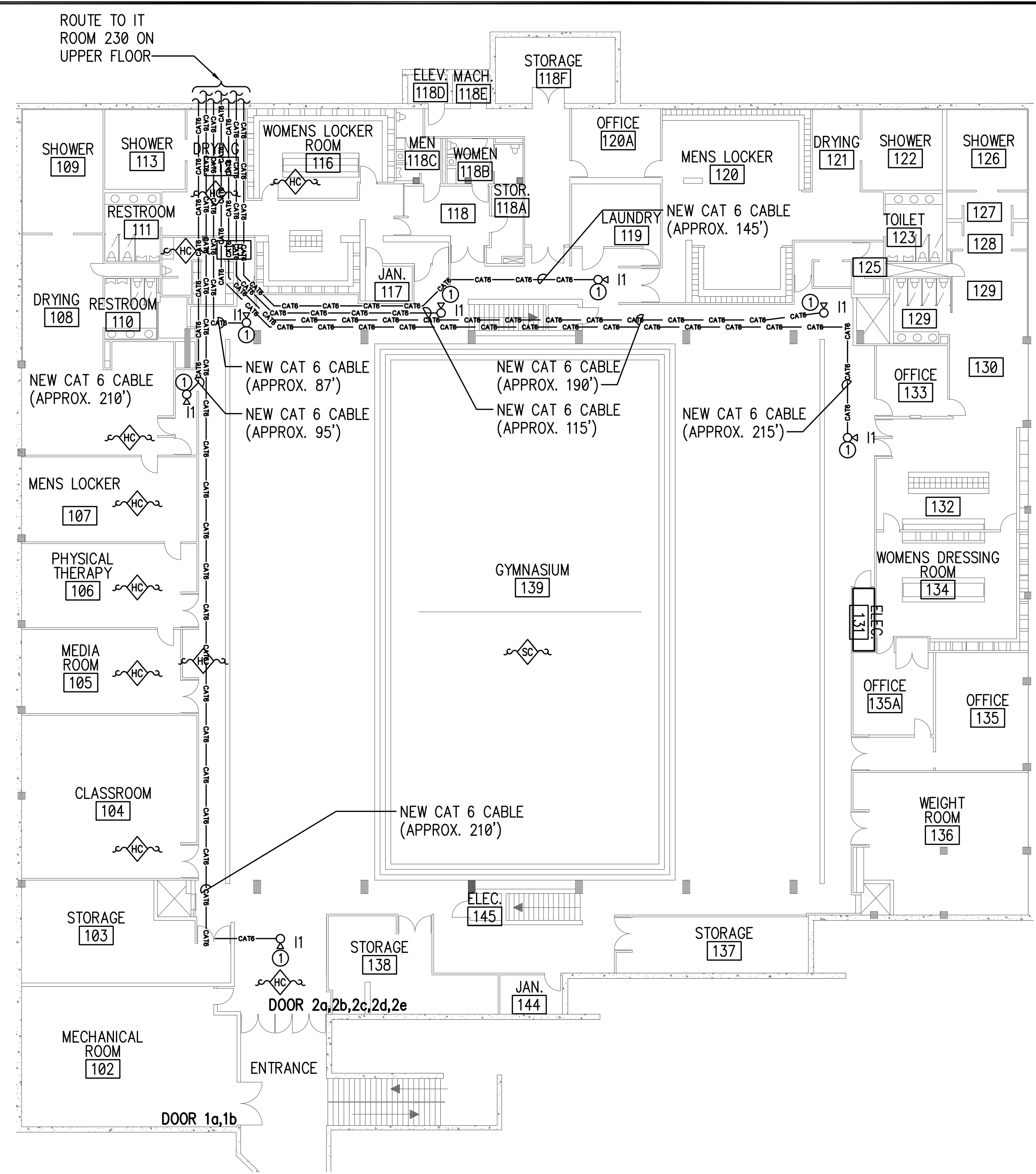
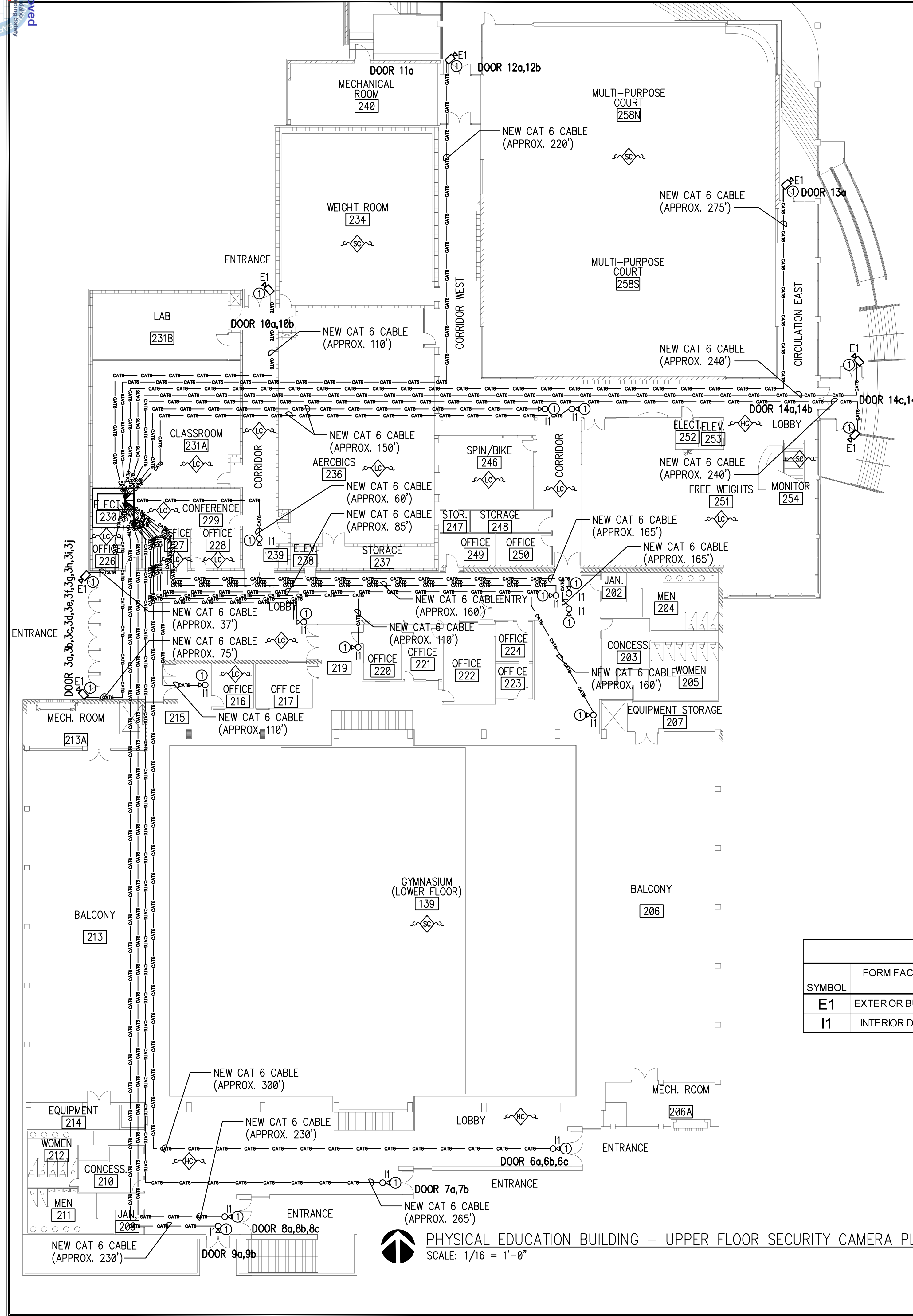
OVER 40 YEARS OF EXCELLENCE

DPW PROJECT 19107
CSI: ENTRY ACCESS CONTROLS, PHASE II
COLLEGE OF SOUTHERN IDAHO
TWIN FALLS, ID

PROJECT	B18-112
DRAWN	DBH
CHECKED	MNB
DATE	JULY 2024
SCALE	AS SHOWN
SHEET	

E11.5

Approved
 State of Idaho
 Professional Engineer
 License No. 13299
 Matthew R. Bradley
 7/10/2024
 MTTALE OF IDAHO
 445 West 2nd Street
 Idaho Falls, ID 83402
 www.mtgroup.com



PHYSICAL EDUCATION BUILDING - LOWER FLOOR SECURITY CAMERA PLAN (ALTERNATE #3)
 SCALE: 1/16" = 1'-0"
 BUILDING PEB

CAMERA SCHEDULE (MINIMUM SPECIFICATIONS)

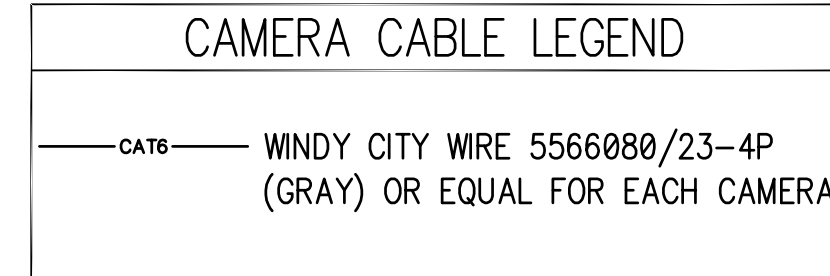
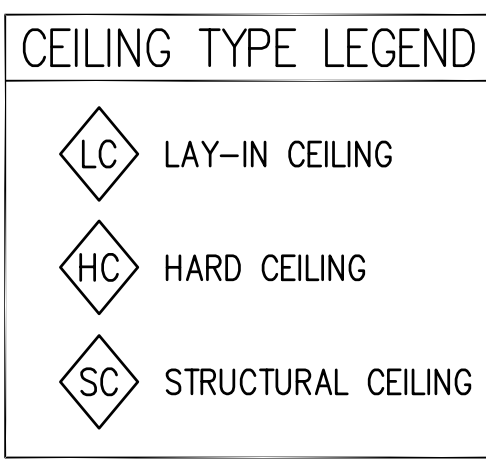
SYMBOL	FORM FACTOR	FIELD OF VIEW	LENS	SHUTTER SPEED	RESOLUTION H.264	FRAMES PER SECOND	MINIMUM ILLUMINATION	POWER INPUT DC 12V	HOUSING	OPERATING TEMPERATURE
E1	EXTERIOR BULLET	H: 100-31 / V: 72-23	3.2-10.0MM, MOTORIZED VARIFOCAL	1/12.00S - 1/5S	5MP (2592X1944)	25/30	0.15 LUX @ F1.6 (COLOR)	POE	IP66	-30 C TO 55 C
I1	INTERIOR DOME	H: 100-31 / V: 72-23	3.2-10.0MM, MOTORIZED VARIFOCAL	1/12.00S - 1/5S	5MP (2592X1944)	25/30	0.15 LUX @ F1.6 (COLOR)	POE	INT	-10 C TO 55 C

PHYSICAL EDUCATION BUILDING - UPPER FLOOR SECURITY CAMERA PLAN (ALTERNATE #3)
 SCALE: 1/16" = 1'-0"
 BUILDING PEB

- NEW CAMERA KEY NOTES:**
- Ⓐ ACCESS CONTROL CABLING SHALL BE ROUTED THROUGH DOOR FRAMES AND CONCEALED USING ALL MEANS POSSIBLE, WHERE NOT POSSIBLE BUT AS A LAST RESORT INSTALL COLOR MATCHING ALUMINUM RACEWAY.
 - Ⓑ ACCESS CONTROL AND SECURITY CAMERA CABLING TO BE ROUTED INSIDE CONDUIT. SIZE CONDUITS CONSISTENT WITH BICSI STANDARDS.
 - Ⓒ ACCESS CONTROL AND SECURITY CAMERA CABLING ROUTE FREE AIR ABOVE ACCESSIBLE CEILING. INSTALL J-HOOKS 6 FOOT ON CENTER

- DRAWING KEY NOTES:**
- ① CONTRACTOR TO PROVIDE AND INSTALL DOME CAMERA, TYPE AS INDICATED, ON ACCESSIBLE CEILING TILE.

- GENERAL NOTES:**
- ALL WALL PENETRATIONS FOR CABLES, CONDUITS AND WIREWAYS INSTALLED AS PART OF THIS PROJECT SHALL BE SEALED WITH FIRE RATED CAULK. 3M RED FIRE BARRIER CP 25WB PLUS SEALANT OR EQUAL.



NO.	REVISIONS	DATE

MUSGROVE ENGINEERING, P.A.
 2340 S. Valley Way
 Boise, ID 83706
 208.384.0355
 645 West 2nd Street
 Idaho Falls, ID 83402
 www.mtgroup.com

OVER 40 YEARS OF EXCELLENCE

DPW PROJECT 19107
CSI: ENTRY ACCESS CONTROLS, PHASE II
COLLEGE OF SOUTHERN IDAHO
TWIN FALLS, ID

PROJECT	B18-112
DRAWN	DBH
CHECKED	MNB
DATE	JULY 2024
SCALE	AS SHOWN
SHEET	

E11.6

HARDWARE GROUP NO. F1:

FOR USE ON DOOR #(S):

F2a	F3B	F11a	F13a		
QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR	
1	EA WIRELESS DOOR CONTACT AND RECEIVER	INOVONICS EN1210W PROVIDED BY SECURITY SYSTEM INSTALLER. INOVONICS EN4204R RECEIVERS, QUANTITY AS REQUIRED FOR FUNCTIONAL SYSTEM CSI STANDARDIZED PRODUCT	WHITE	INN	

HARDWARE GROUP NO. F2

FOR USE ON DOOR #(S):

F8a, b, c, d					
QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR	
4	EA WIRELESS ELECTRONIC HANDLE SET, CYLINDER LOCK, CLASSROOM, MULTI-TECH, RHODES LEVER, SATIN CHROME FINISH.	AD-400-CY-50-MT-RHO.626 (LEVER PREP AND CONFIGURATION AS REQ) BATTERY POWERED CSI STANDARDIZED PRODUCT	626	SCE	
1	EA PIM	PIM400-1501 CSI STANDARDIZED PRODUCT		SCE	

HARDWARE GROUP NO. F3

FOR USE ON DOOR #(S):

F3a	F5a	F7a	F9a	F10a	F12a
QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR	
1	EA WIRELESS ELECTRONIC HANDLE SET, CYLINDER LOCK, CLASSROOM, MULTI-TECH, RHODES LEVER, SATIN CHROME FINISH.	AD-400-CY-50-MT-RHO.626 (LEVER PREP AND CONFIGURATION AS REQ) BATTERY POWERED CSI STANDARDIZED PRODUCT	626	SCE	
1	EA PIM	PIM400-1501 CSI STANDARDIZED PRODUCT		SCE	
1	EA WIRELESS DOOR CONTACT AND RECEIVER	INOVONICS EN1210W PROVIDED BY SECURITY SYSTEM INSTALLER. INOVONICS EN4204R RECEIVERS, QUANTITY AS REQUIRED FOR FUNCTIONAL SYSTEM CSI STANDARDIZED PRODUCT	WHITE	INN	

HARDWARE GROUP NO. F4

FOR USE ON DOOR #(S):

F1a, b	F6a, b				
QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR	
2	EA ELECTRIFIED LATCH RETRACTION DEVICE WITH BUILT IN REQUEST TO EXIT AND FIELD INSTALLED LATCH BOLT MONITOR KIT	COMMAND ACCESS TECH. MLRK1-VD + VDLMBKIT-ED CSI STANDARDIZED PRODUCT		CAT	
2	EA POWER TRANSFER LOOP, BLACK END CAPS	SDC SECURITY PT-2 CSI STANDARDIZED PRODUCT	STAIN LESS STEEL	SDC	
1	EA MULTI-TECH READER	SCHLAGE MT11 12 VDC CSI STANDARDIZED PRODUCT	BLACK	SCE	
2	EA WIRED DOOR CONTACT	ARITECH 1076CW-N PROVIDED BY SECURITY SYSTEM INSTALLER CSI STANDARDIZED PRODUCT	WHITE	ARI	

HARDWARE GROUP NO. F5:

FOR USE ON DOOR #(S):

F4a	F11a				
QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR	
1	EA WIRED DOOR CONTACT DOOR TRACK MOUNTED	WBOX TECHNOLOGIES OE-DC4811 CSI STANDARDIZED PRODUCT	AL	WBX	

DOOR HARDWARE NOTES

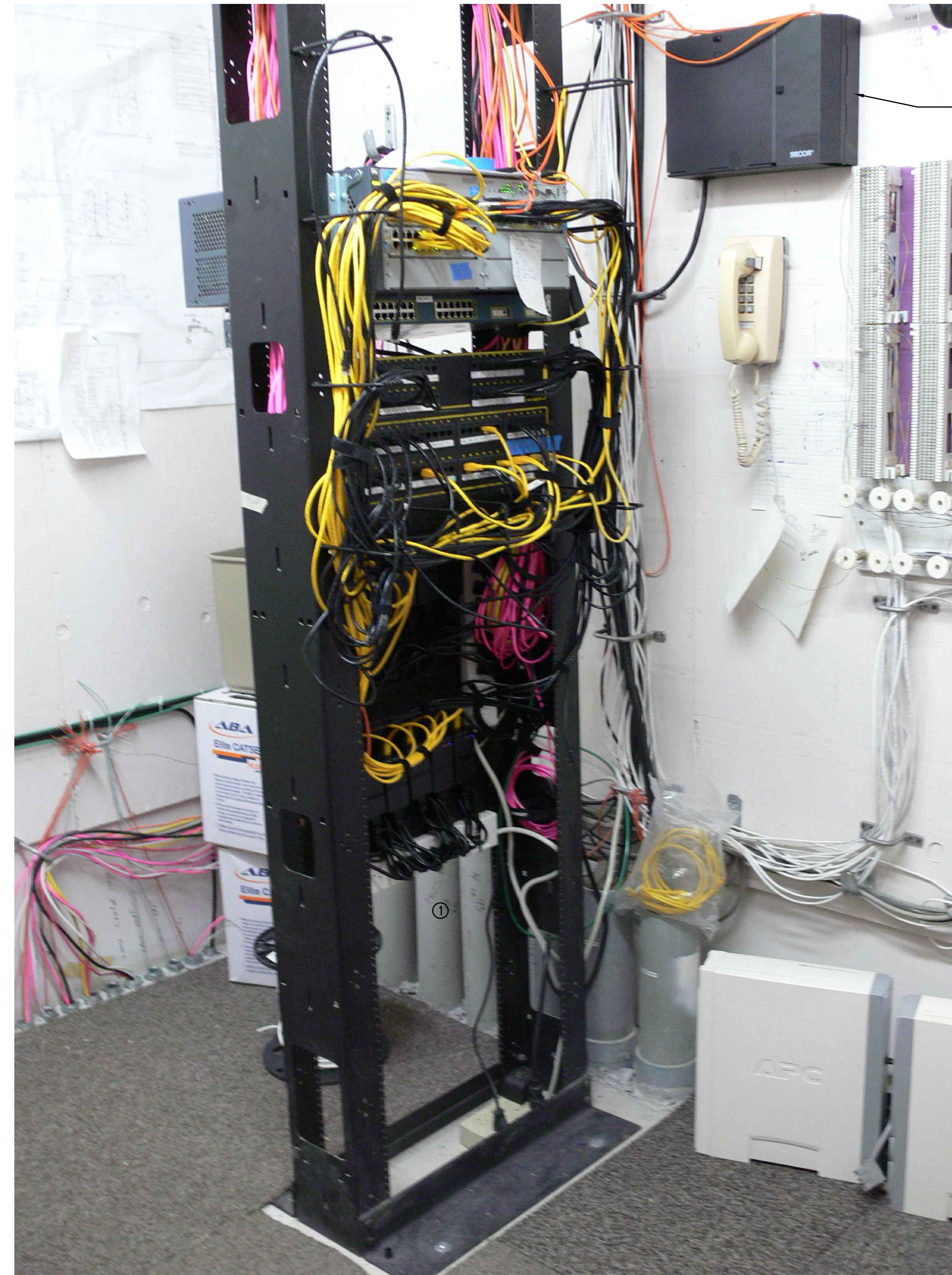
- INSTALLATION CONTRACTOR IS REQUIRED TO SCHEDULE A PROJECT DOOR HARDWARE WALK WITH DOOR HARDWARE DISTRIBUTOR, INSTALLING CONTRACTORS SUPERINTENDENT, CSI PROJECT MANAGER, AND DESIGN PROFESSIONAL PRIOR TO ORDERING DOOR HARDWARE AND INSTALLATION. THE PURPOSE OF THIS DOOR HARDWARE WALK IS TO VERIFY THAT THE DOOR HARDWARE FITMENT IS CORRECT PRIOR TO ORDERING.

GENERAL NOTES:

- ALL WALL PENETRATIONS FOR CABLES, CONDUITS AND WIREWAYS INSTALLED AS PART OF THIS PROJECT SHALL BE SEALED WITH FIRE RATED CAULK. 3M RED FIRE BARRIER CP 25WB PLUS SEALANT OR EQUAL.

DRAWING KEY NOTES:

- U SPACE CHANGED BY CSI IT.



ROOM 114 DATA RACK
(ALTERNATE #4)

FIBER PATCH PANEL. OPEN FIBER OPTIC CONNECTION AT 16.1, 16.2, 16.3. COORDINATE INSTALLATION WITH CSI IT DEPARTMENT. CONTRACTOR SHALL PROVIDE FIBER PATCH CABLE, AND SFP FOR ACCESS CONTROL NETWORK SWITCH. FIELD VERIFY FIBER OPTIC CABLE TYPE AND SFP REQUIREMENTS PRIOR TO ORDERING AND INSTALLATION.

NO.	REVISIONS	DATE



MUSGROVE ENGINEERING, P.A.
 2440 West 25th Street
 Boise, ID 83705
 208.384.4355
 Idaho Reg. No. 13299
 www.musgrovepa.com

OVER 40 YEARS OF EXCELLENCE

DPW PROJECT 19107
 CSI: ENTRY ACCESS CONTROLS, PHASE II
 COLLEGE OF SOUTHERN IDAHO
 TWIN FALLS, ID

PROJECT	B18-112
DRAWN	DBH
CHECKED	MNB
DATE	JULY 2024
SCALE	AS SHOWN
SHEET	

E5.4

DPW PROJECT 19107

CSI: ENTRY ACCESS CONTROLS PHASE 2

COLLEGE OF SOUTHERN IDAHO

TWIN FALLS, ID



LIST OF DRAWINGS	
T1.0	ELECTRICAL TITLE SHEET
T1.1	ELECTRICAL LEGENDS SHEET & FIBER MAP
FINE ARTS BUILDING (ALTERNATE #4)	
E5.1	NORTH ACCESS CONTROL PLAN
E5.2	SOUTH ACCESS CONTROL PLAN
E5.3	SECURITY CAMERA PLAN
E5.4	IT ROOM 114 DATA RACK

CODES	
INTERNATIONAL BUILDING CODE	- 2018 OF IDAHO
EXISTING INTERNATIONAL BUILDING CODE	- 2009 2018
IDAHO ENERGY CONSERVATION CODE	- 2018 OF IDAHO
NATIONAL ELECTRIC CODE	- 2017 OF IDAHO 2014 2023 NEC

Fiber optic wiring to be installed per NEC 770.

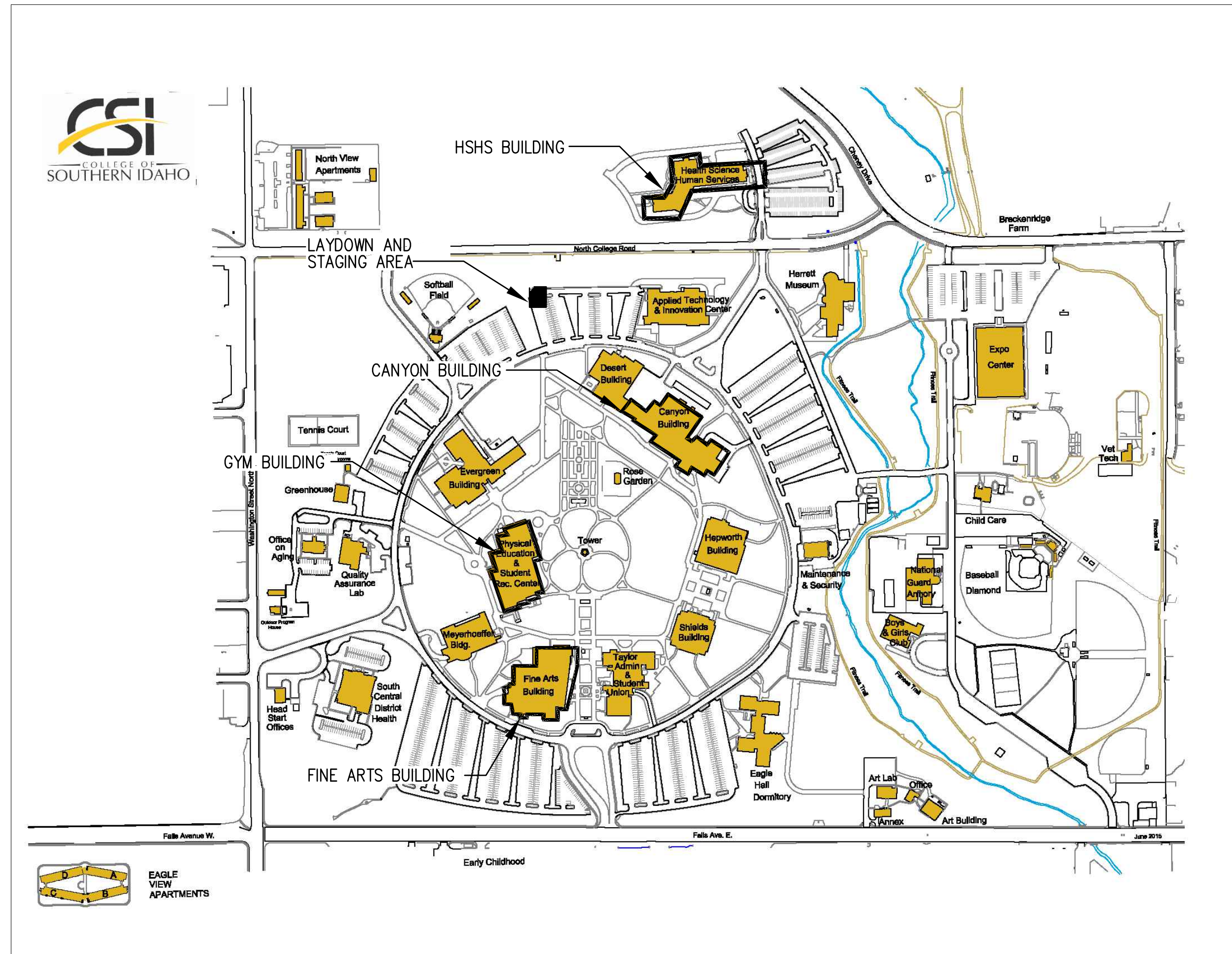
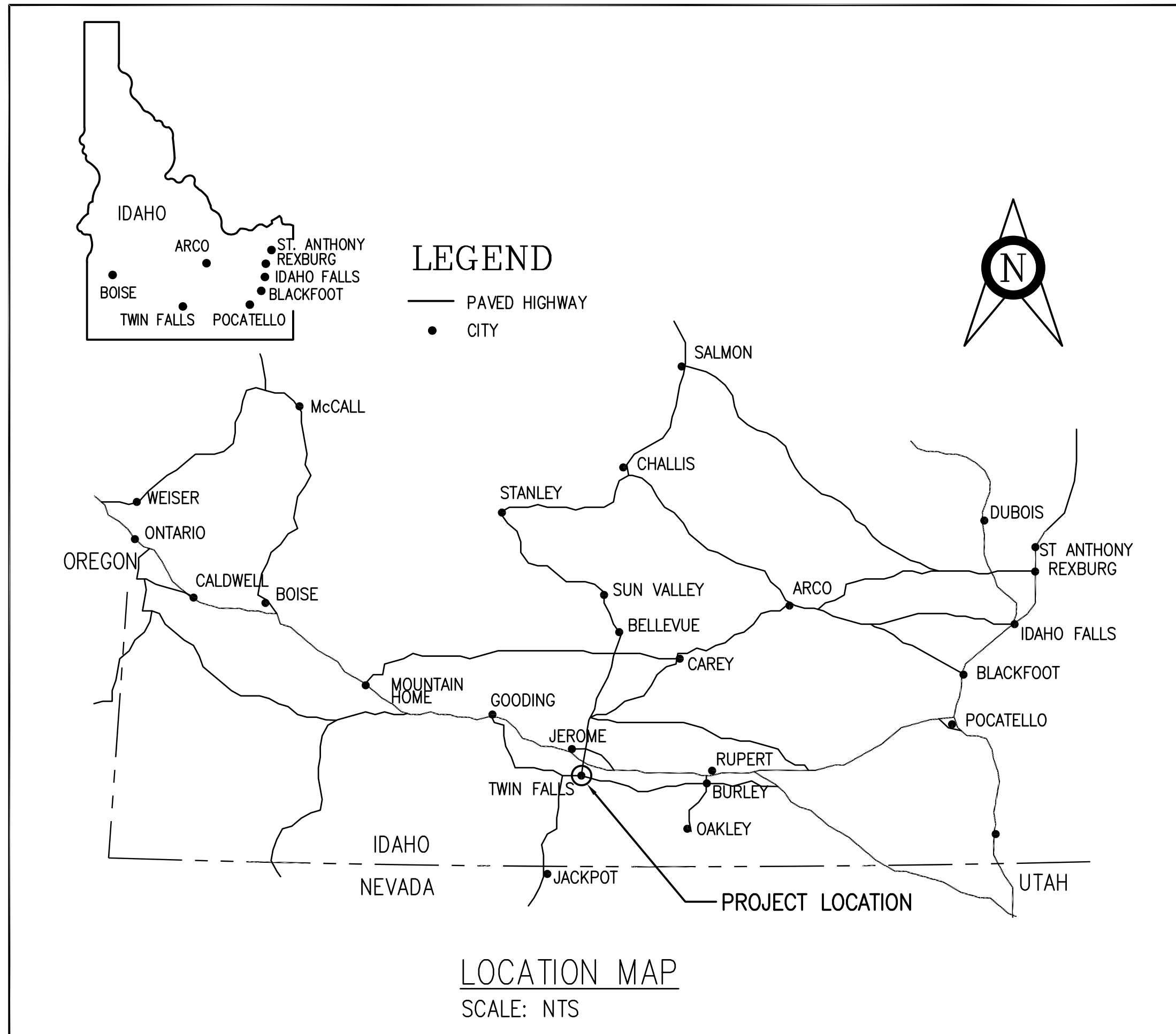
Penetration's thru walls floors or ceilings to be fire caulked per NEC 300.21

These plans have been reviewed for code compliance based on the submitted documents and plan sheets, and have been found, to be, substantially code compliant, all other code compliance requirements shall be completed through field inspections, verifications, and approvals by the field building inspector.

See Plan Review notes: The plan review notes shall always be attached to the stamped approved plans and documents. These are part of the plans and shall be a permanent record with the plans. Inspection shall not take place without a complete set of the Idaho Division of Occupational and Professional Licenses (IDOPL) plan review notes and approved, stamped plans on site.

Construction Safeguards
Construction Safeguards shall be required for any and all demolition and construction to ensure public safety. Required exits, existing structural elements, fire protection devices and sanitary safeguards shall be maintained at all times during alterations, repairs or additions to any building or structure. All applicable construction safeguards from chapter 31 and 33 shall be in place and maintained while any demolition or construction activities are being undertaken.

Sprinkler Note
In tenant renovations and remodels, the installation, deletion, or movement of any walls may affect the sprinkler performance. A sprinkler evaluation by a licensed sprinkler contractor should be made to ensure that any modification to the sprinkler system is warranted. Any alteration deletions or additions to the system shall be by a licensed sprinkler contractor and be approved by the Fire Marshal through plan review and inspection.



DESIGN PROFESSIONAL CONTACT
MUSGROVE ENGINEERING P.A.
MATTHEW BRADLEY P.E.
645 WEST 25TH STREET
IDAHO FALLS ID 83404
208-523-2862

AGENCY CONTACT
COLLEGE OF SOUTHERN IDAHO
THEO SCHUT
315 FALLS AVE
TWIN FALLS ID 83404
208-732-6610

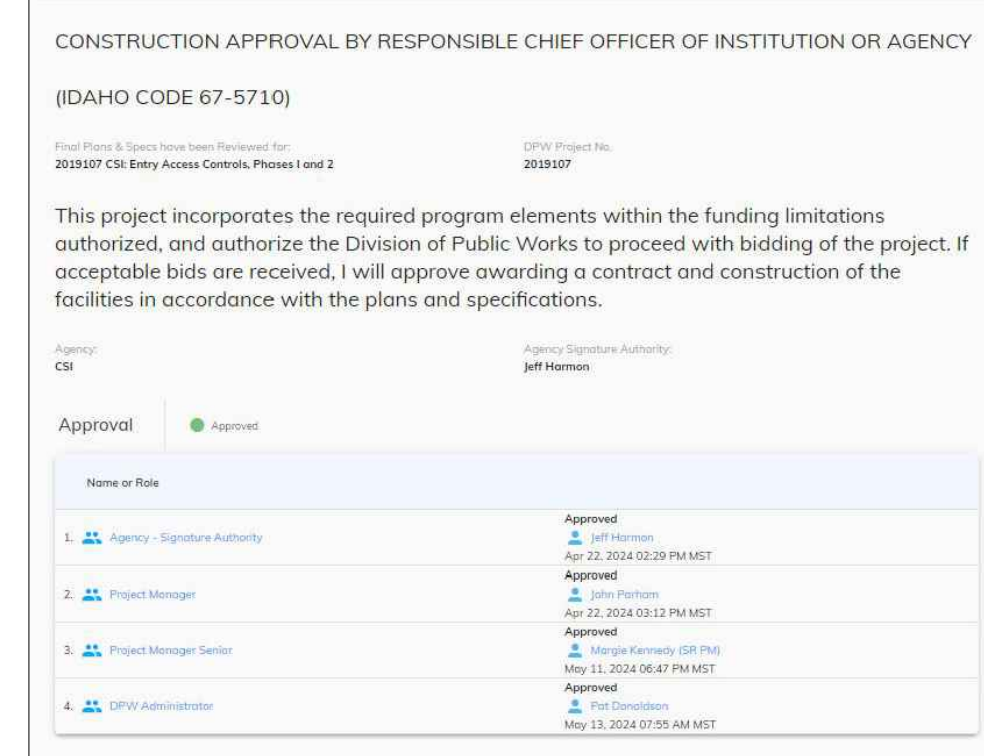
OWNER CONTACT
IDAHO DIVISION OF PUBLIC WORKS
JOHN B. PARHAM
502 N 4TH ST
BOISE ID 83702
208-332-1909

PROJECT GENERAL NOTES:

- ALL BUILDINGS ON CSI CAMPUS ARE TO REMAIN 100% OWNER OCCUPIED. BUILDING EXITING AND SECURITY SHALL BE MAINTAINED DURING CONSTRUCTION.
- ACCESS CONTROL SYSTEM AND SECURITY CAMERA SYSTEM SHALL OPERATE ON EXISTING DARK FIBER AS INSTALLED ON CSI CAMPUS. FIELD VERIFY EXISTING DARK FIBER SYSTEM PRIOR TO BID TO VERIFY FUNCTIONALITY AND FIBER OPTIC TYPE.

Sprinkler Note
In tenant renovations and remodels, the installation, deletion, or movement of any walls may affect the sprinkler performance. A sprinkler evaluation by a licensed sprinkler contractor should be made to ensure that any modification to the sprinkler system is warranted. Any alteration deletions or additions to the system shall be by a licensed sprinkler contractor and be approved by the Fire Marshal through plan review and inspection.

Penetrations Note
It is the responsibility of the design professional, contractor, and or builder to notify the building department of any alteration, addition, or removal of any building component, that is not in the scope of this approved plan and permit, whether structural, or not, as a modification of plans, for review and inspection. Any penetrations, whether a membrane penetration or through penetration of any horizontal assemblies, smoke assemblies, fire-resistance-rated wall assemblies, and fire-resistance-rated floor, and or ceiling assemblies must be protected and inspected if penetrated. The provisions of chapter 7, of the 2018 IBC shall govern the materials and methods of construction used to protect duct penetrations, through penetrations and membrane penetrations of rated assemblies. A building permit for the inspection of such alterations, penetrations and protections shall be made, and building inspections called for approval.



NO.	REVISIONS	DATE



MUSGROVE ENGINEERING P.A.
25th Street, Twin Falls, ID 83404
208-523-2862
645 West 25th Street, Idaho Falls, ID 83402
www.musgrovepa.com

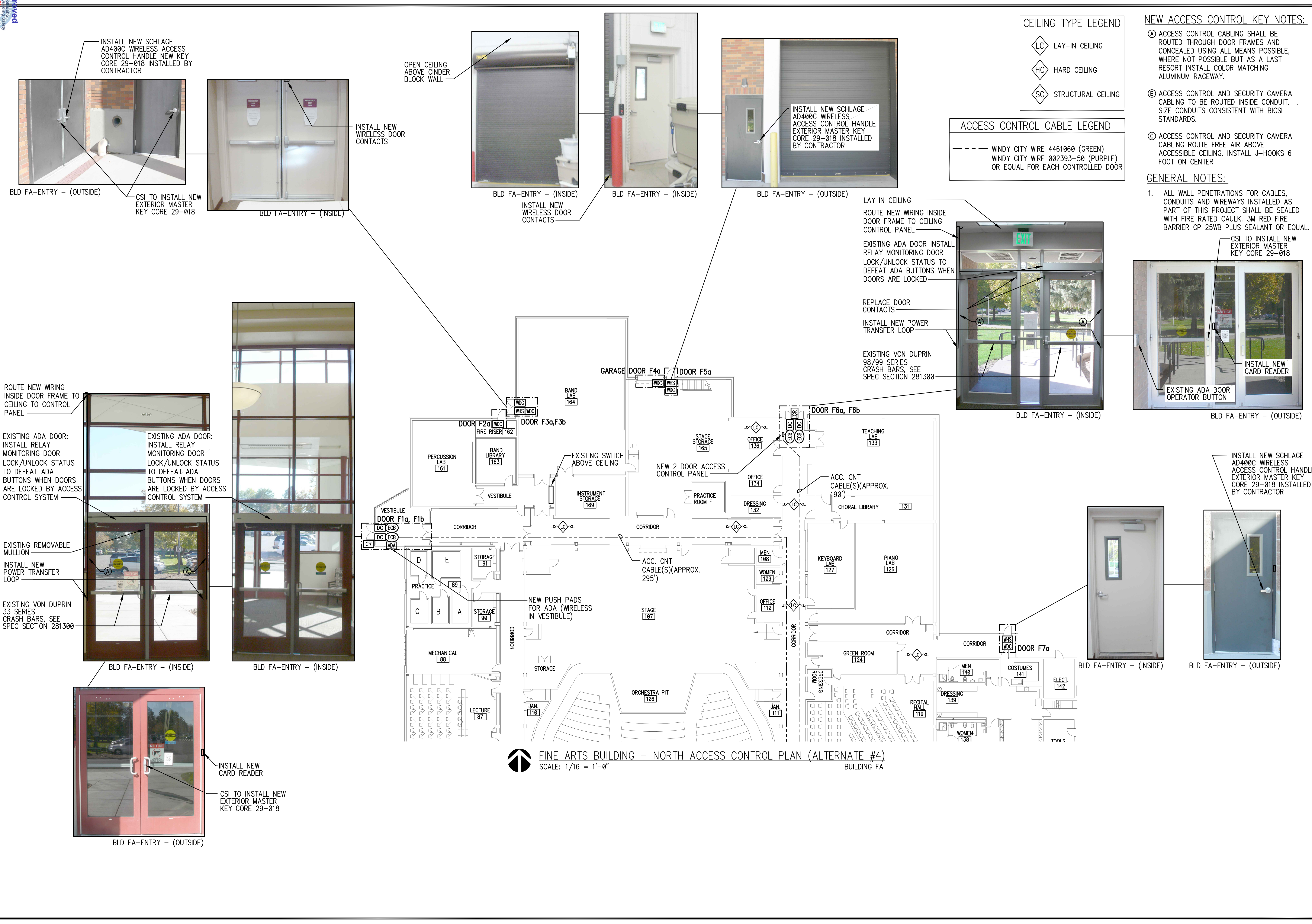
OVER 40 YEARS OF EXCELLENCE

DPW PROJECT 19107
CSI: ENTRY ACCESS CONTROLS, PHASE II
COLLEGE OF SOUTHERN IDAHO
TWIN FALLS, ID

PROJECT	B18-112
DRAWN	DBH
CHECKED	MNB
DATE	JULY 2024
SCALE	AS SHOWN

T1.0

Approved
 State of Idaho
 Professional Engineer
 License No. 13299
 Matthew N. Bradley
 State of Idaho
 Professional Engineer
 License No. 13299
 Matthew N. Bradley



FINE ARTS BUILDING - NORTH ACCESS CONTROL PLAN (ALTERNATE #4)
 SCALE: 1/16" = 1'-0"
 BUILDING FA

CEILING TYPE LEGEND

- LC LAY-IN CEILING
- HC HARD CEILING
- SC STRUCTURAL CEILING

ACCESS CONTROL CABLE LEGEND

- WINDY CITY WIRE 4461060 (GREEN)
- WINDY CITY WIRE 002393-50 (PURPLE) OR EQUAL FOR EACH CONTROLLED DOOR

NEW ACCESS CONTROL KEY NOTES:

- Ⓐ ACCESS CONTROL CABLING SHALL BE ROUTED THROUGH DOOR FRAMES AND CONCEALED USING ALL MEANS POSSIBLE, WHERE NOT POSSIBLE BUT AS A LAST RESORT INSTALL COLOR MATCHING ALUMINUM RACEWAY.
- Ⓑ ACCESS CONTROL AND SECURITY CAMERA CABLING TO BE ROUTED INSIDE CONDUIT. SIZE CONDUITS CONSISTENT WITH BICSI STANDARDS.
- Ⓒ ACCESS CONTROL AND SECURITY CAMERA CABLING ROUTE FREE AIR ABOVE ACCESSIBLE CEILING. INSTALL J-HOOKS 6 FOOT ON CENTER

GENERAL NOTES:

1. ALL WALL PENETRATIONS FOR CABLES, CONDUITS AND WIREWAYS INSTALLED AS PART OF THIS PROJECT SHALL BE SEALED WITH FIRE RATED CAULK. 3M RED FIRE BARRIER CP 25WB PLUS SEALANT OR EQUAL.

NO.	REVISIONS	DATE

PROFESSIONAL ENGINEER
 REGISTERED IN THE STATE OF IDAHO
 License No. 13299
 Matthew N. Bradley

MUSGROVE ENGINEERING, P.A.
 2340 N. Myrtle Way
 Boise, ID 83705
 208.384.0555
 645 West 25th Street
 Idaho Falls, ID 83402
 www.musgrovepa.com

ML

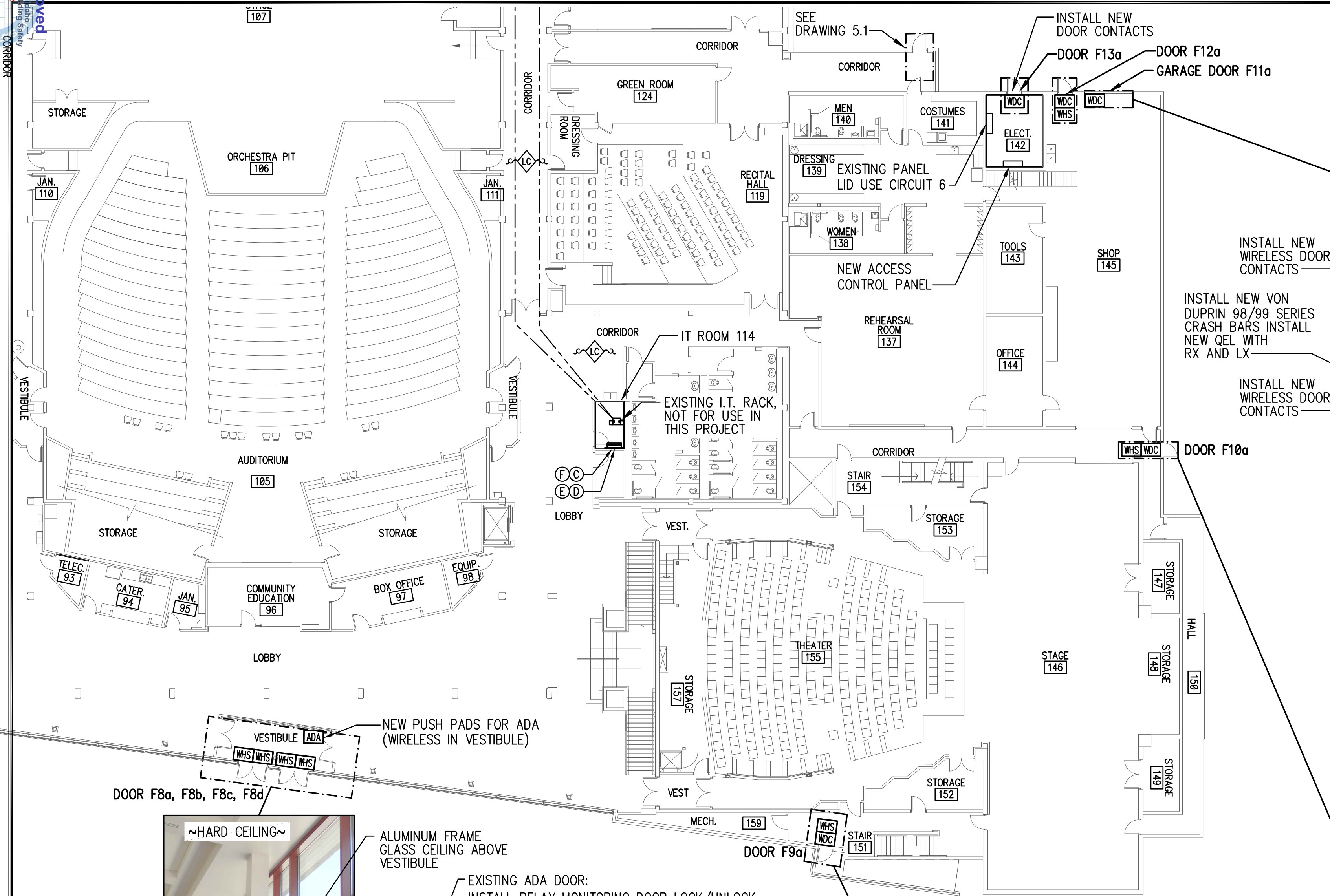
OVER 40 YEARS OF EXCELLENCE

DPW PROJECT 19107
CSI: ENTRY ACCESS CONTROLS, PHASE II
COLLEGE OF SOUTHERN IDAHO
TWIN FALLS, ID

PROJECT	B18-112
DRAWN	DBH
CHECKED	MNB
DATE	JULY 2024
SCALE	AS SHOWN
SHEET	

E5.1

Approved
 State of Idaho
 Department of Labor
 Division of Occupational Safety and Health
 1000 S. Myrtle Street
 Boise, Idaho 83724
 (208) 333-3333
 www.idaho.gov



CEILING TYPE LEGEND

LC	LAY-IN CEILING
HC	HARD CEILING
SC	STRUCTURAL CEILING

ACCESS CONTROL CABLE LEGEND

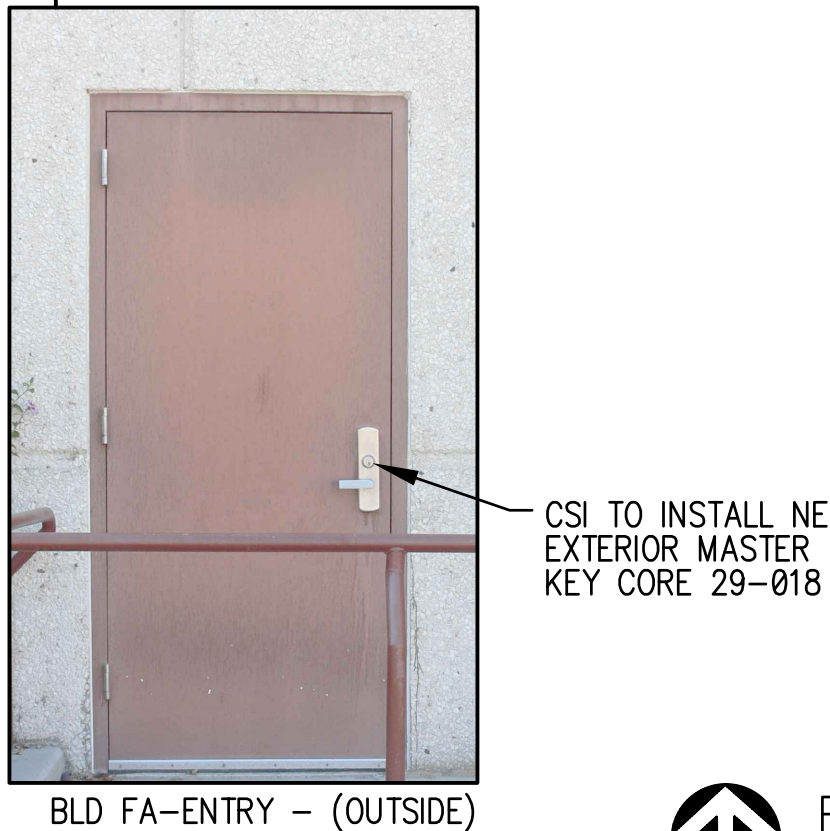
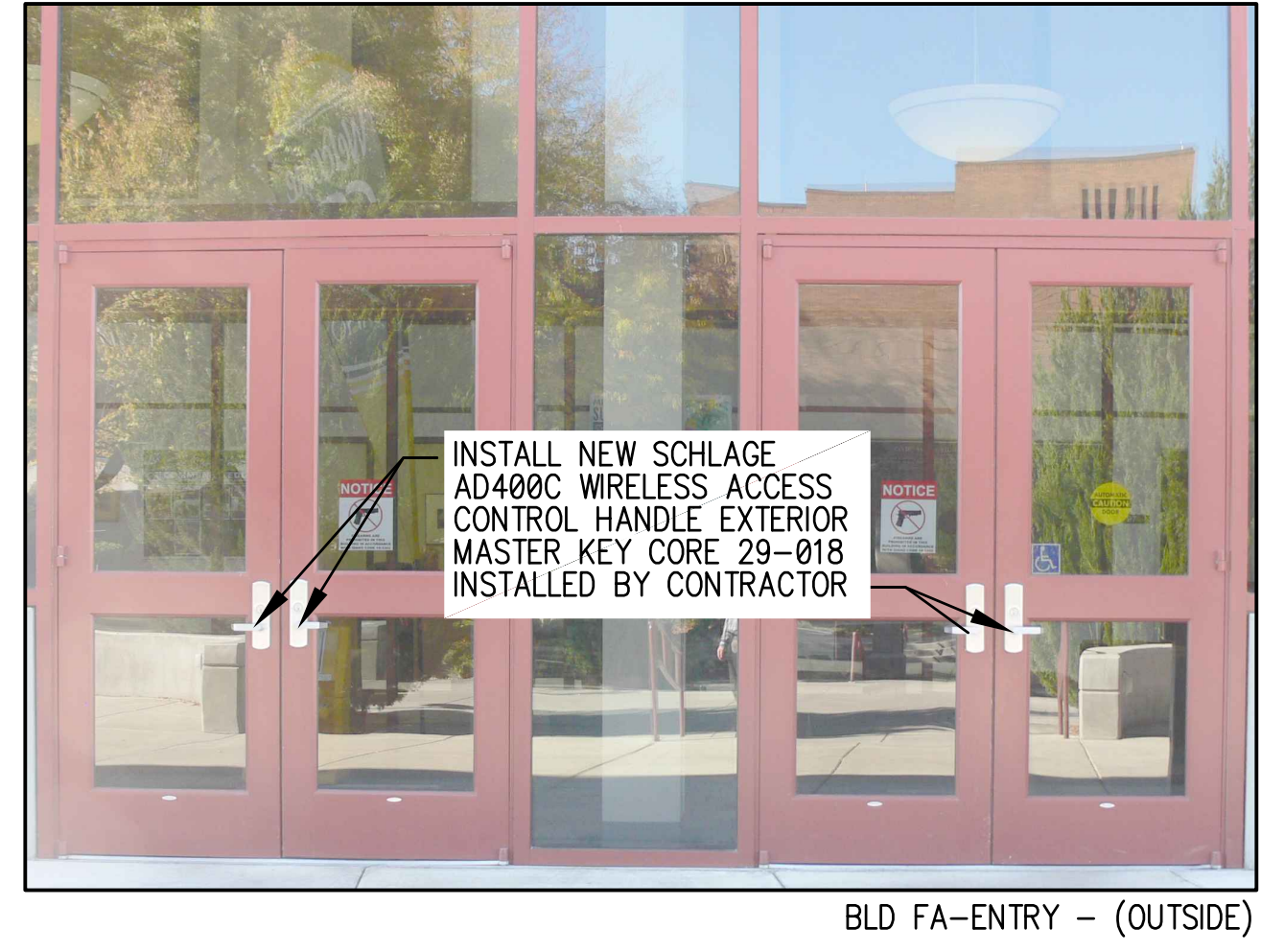
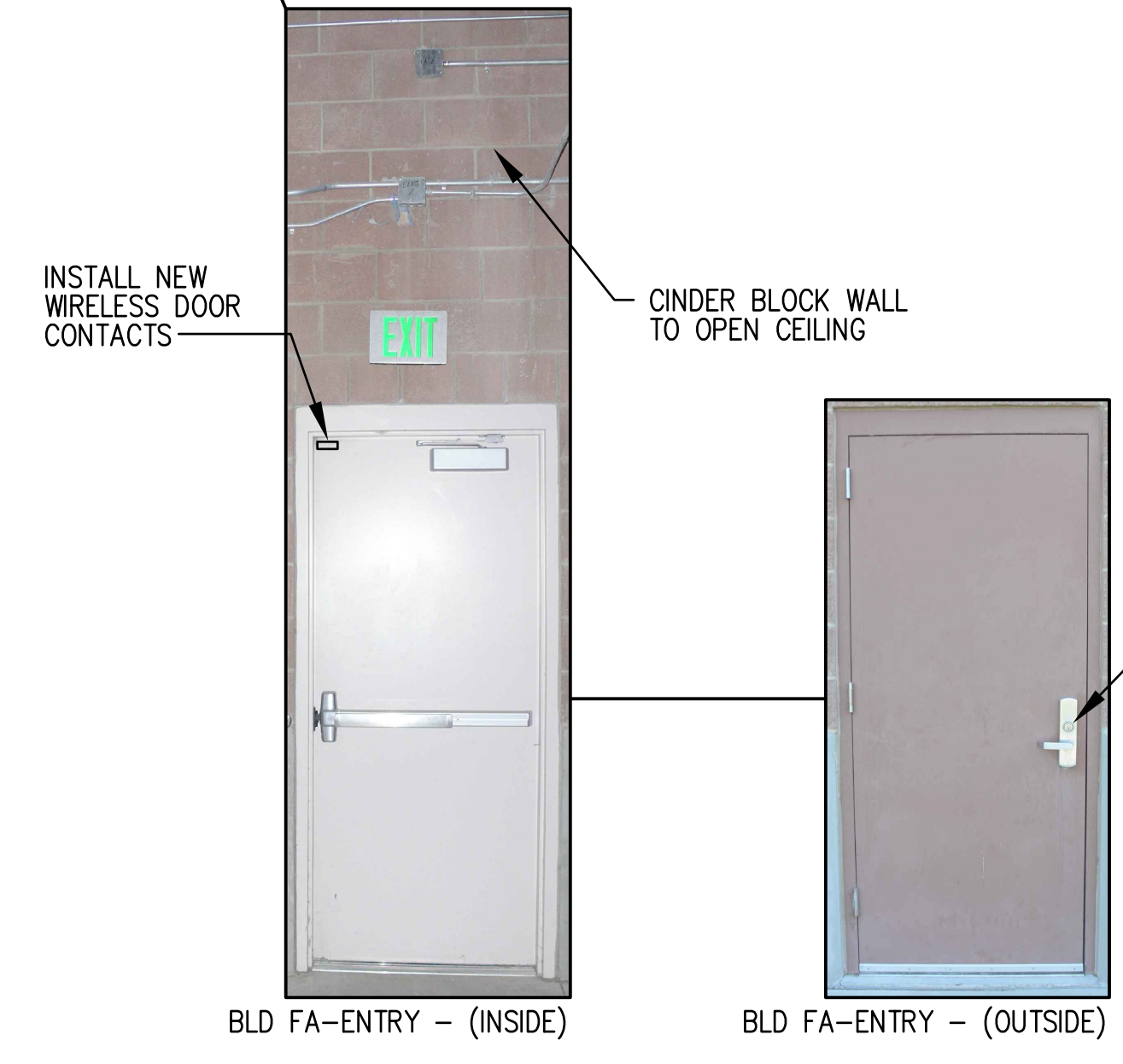
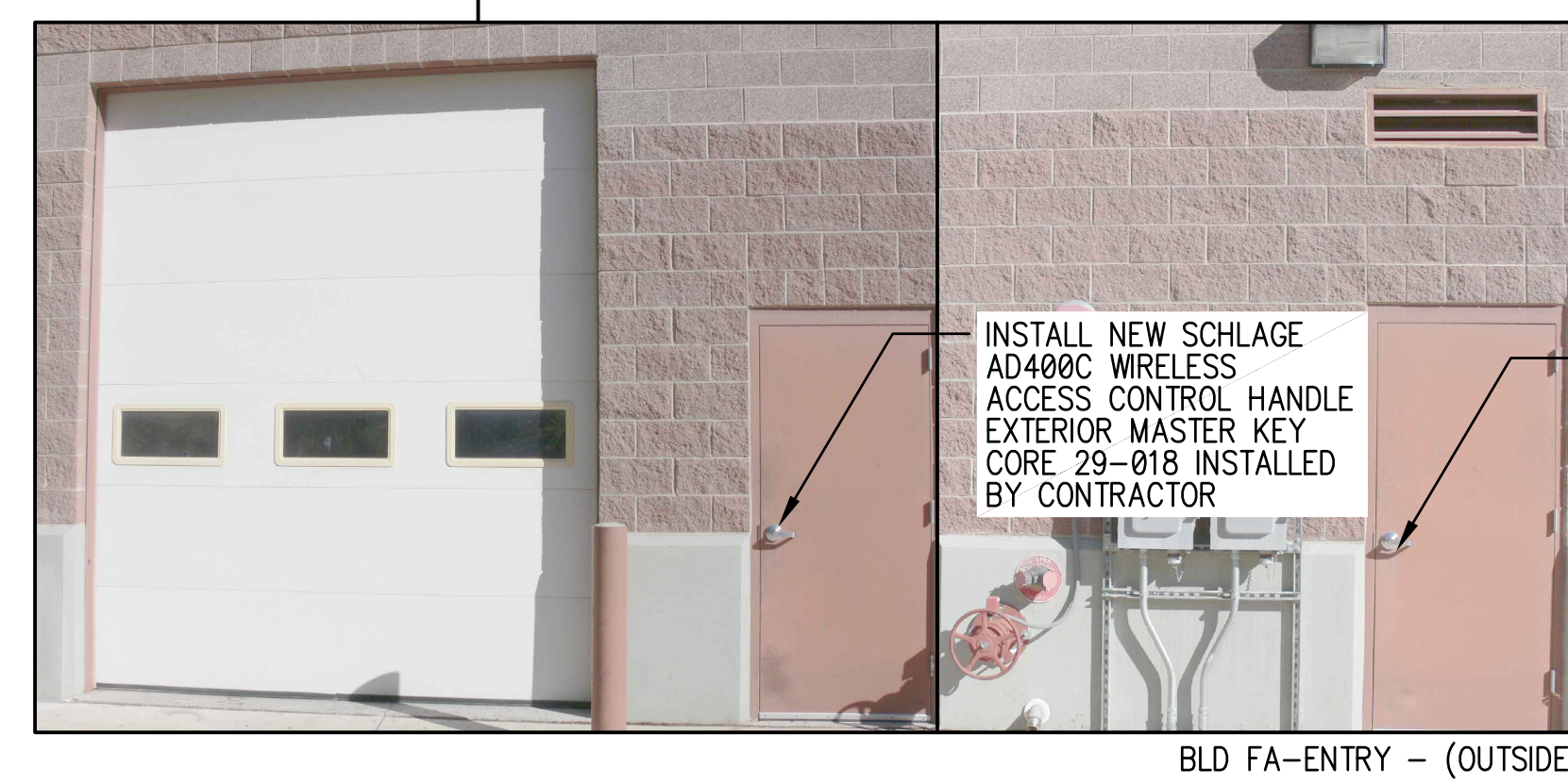
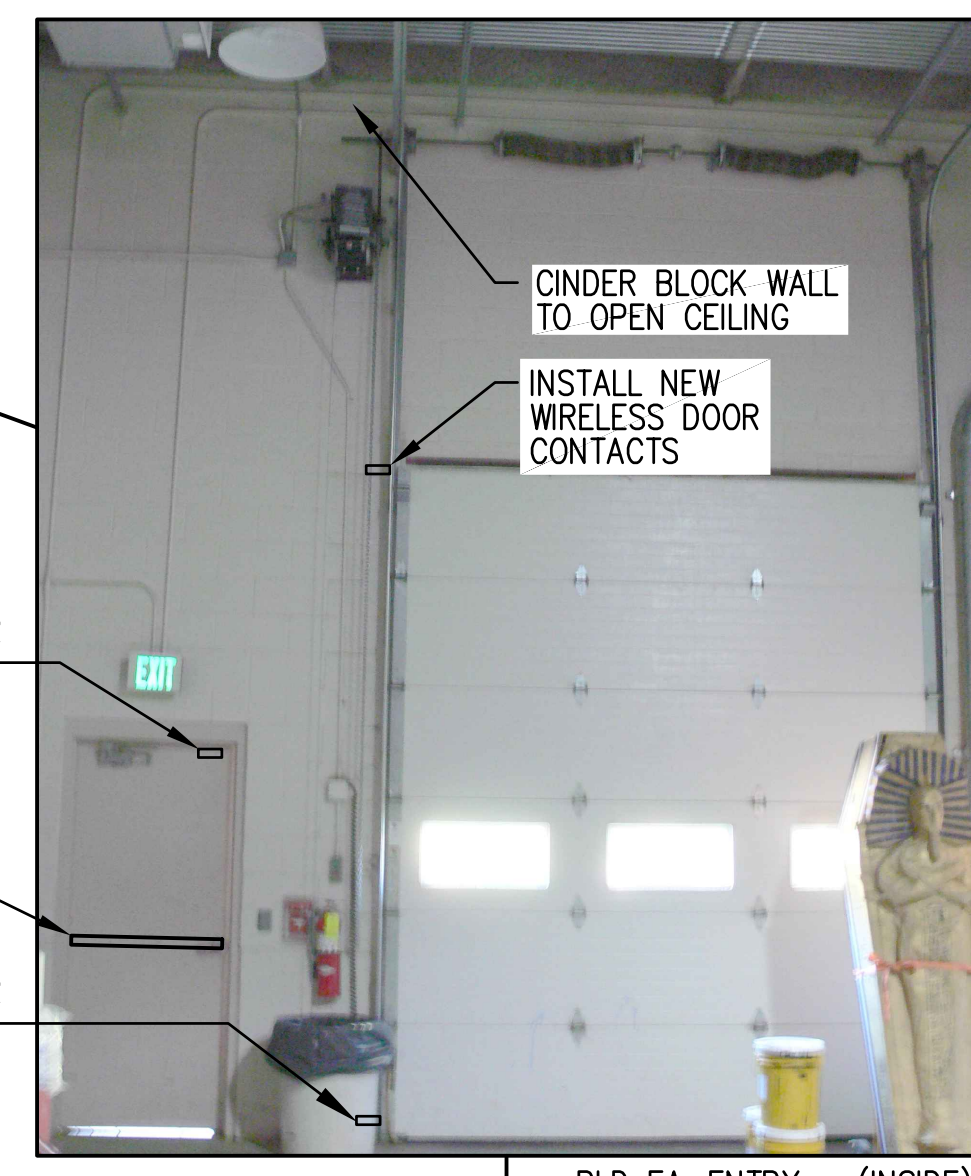
---	WINDY CITY WIRE 4461060 (GREEN)
---	WINDY CITY WIRE 002393-50 (PURPLE)
---	OR EQUAL FOR EACH CONTROLLED DOOR

NEW ACCESS CONTROL KEY NOTES:

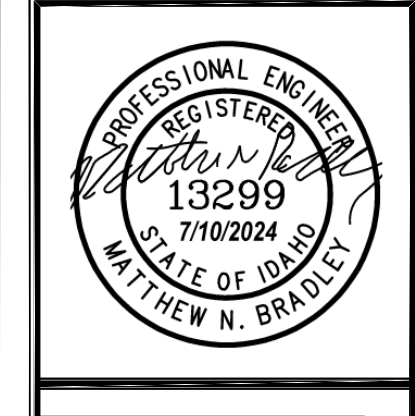
- Ⓐ ACCESS CONTROL CABLING SHALL BE ROUTED THROUGH DOOR FRAMES AND CONCEALED USING ALL MEANS POSSIBLE, WHERE NOT POSSIBLE BUT AS A LAST RESORT INSTALL COLOR MATCHING ALUMINUM RACEWAY.
- Ⓑ ACCESS CONTROL AND SECURITY CAMERA CABLING TO BE ROUTED INSIDE CONDUIT. SIZE CONDUITS CONSISTENT WITH BICSI STANDARDS.
- Ⓒ INSTALL MERCURY SECURITY EP1502 WITH MERCURY SECURITY MR161N INTERFACE DOOR CONTROL CARDS IN GANG ENCLOSURE(S) NEAR THIS LOCATION. INSTALL NEW DUPLEX RECEPTACLE INSIDE GANG ENCLOSURE AND CONNECT TO NEAREST 120V CIRCUIT IN ROOM. COORDINATE INSTALLATION WITH ENGINEER.
- Ⓓ INSTALL 4FTx8FT PLYWOOD PAINTED BLACK WITH 3 COATS OF FIRE RETARDANT PAINT TO MOUNT DOOR CONTROL CABINET AND NETWORK RACK ON.
- Ⓔ CONNECT TO EXISTING 62.5MM FIBER CABINET. CONTRACTOR TO PROVIDE AND INSTALL ALL REQUIRED SMALL FORM FACTOR PLUGGABLE TRANSCEIVERS (SFP), CABLES, FIBER, SWITCHES, AND FIELD VERIFICATION LABOR REQUIRED TO MAKE COMPLETE AND FUNCTIONAL CONNECTIONS.
- Ⓕ INSTALL WALL MOUNTED NETWORK RACK LEGRAND VVMSD-4RU-42B. INSTALL NEW DUPLEX RECEPTACLE INSIDE GANG ENCLOSURE AND CONNECT TO NEAREST 120V CIRCUIT IN ROOM. COORDINATE INSTALLATION WITH ENGINEER.

GENERAL NOTES:

- 1. ALL WALL PENETRATIONS FOR CABLES, CONDUITS AND WIREWAYS INSTALLED AS PART OF THIS PROJECT SHALL BE SEALED WITH FIRE RATED CAULK. 3M RED FIRE BARRIER CP 25WB PLUS SEALANT OR EQUAL.



NO.	REVISIONS	DATE



MUSGROVE ENGINEERING, P.A.
 2345 S. Myrtle Street
 Boise, ID 83725
 208.388.1055
 465 West 24th Street
 Idaho Falls, ID 83402
 www.musgrovepa.com

OVER 40 YEARS OF EXCELLENCE

**DPW PROJECT 19107
 CSI: ENTRY ACCESS CONTROLS, PHASE II
 COLLEGE OF SOUTHERN IDAHO
 TWIN FALLS, ID**

PROJECT	B18-112
DRAWN	DBH
CHECKED	MNB
DATE	JULY 2024
SCALE	AS SHOWN
SHEET	

