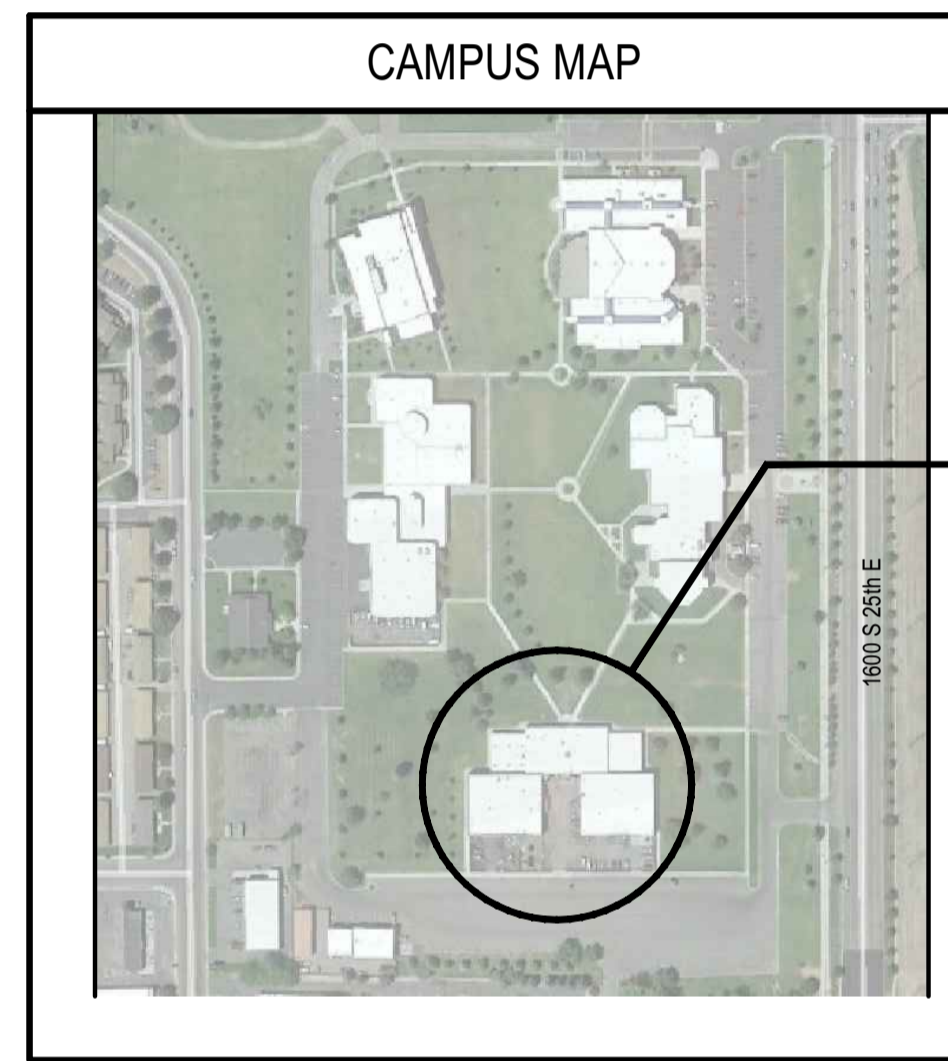


# DPW PROJECT No. 18-131

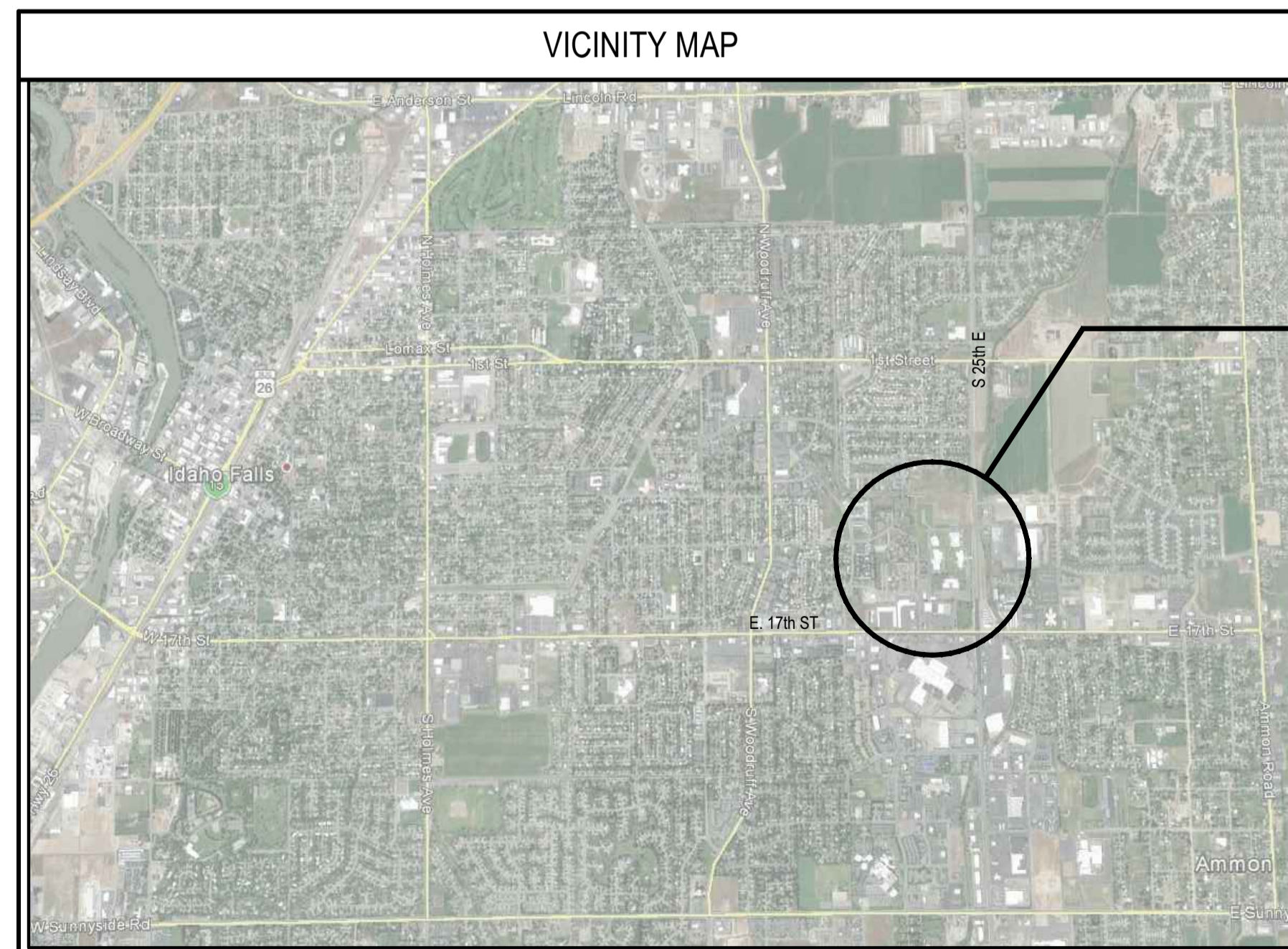
# EASTERN IDAHO TECHNICAL COLLEGE

## REMODEL LIGHT DIESEL AND WELD SHOP

1600 S. 25th E.  
Idaho Falls ID. 83404



PROJECT LOCATION

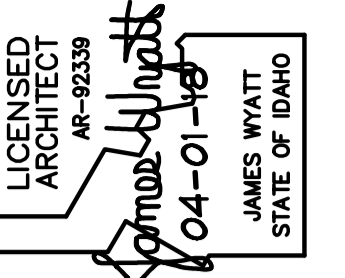


PROJECT LOCATION

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E2.1	PANEL & FIXTURE SCHEDULES
FA1.1	FIRE ALARM PLAN

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SYMBOLS LEGEND		
<b>DETAIL</b> SCALE: 3/8" = 1'-0"		DETAIL NUMBER DETAIL TITLE TAG PAGE NUMBER
<b>HEAD</b> SCALE: 3/8" = 1'-0"		DETAIL NUMBER HEAD DETAIL TAG PAGE NUMBER
<b>JAMB</b> SCALE: 3/8" = 1'-0"		DETAIL NUMBER JAMB DETAIL TAG PAGE NUMBER
<b>SECTION</b> SCALE: 3/8" = 1'-0"		DETAIL NUMBER SECTION TITLE TAG PAGE NUMBER
<b>SILL</b> SCALE: 3/8" = 1'-0"		DETAIL NUMBER SILL DETAIL TAG PAGE NUMBER
<b>TITLE</b> SCALE: 3/8" = 1'-0"		MAIN TITLE TAG
	ELEV. 100'-0"	ELEVATION HEIGHT TAG
	BREAK LINE	
	SECTION NUMBER BUILDING SECTION TAG	PAGE NUMBER
	DETAIL NUMBER DETAIL TAG	PAGE NUMBER
	DRAWING NOTE	
	NORTH ARROW	
	REVISION TAG	
	ROOM ROOM NAME ROOM NAME TAG	ROOM NUMBER
	DOOR TAG	
	WINDOW TAG	
	WALL TYPE	



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REMODEL FOR:  
**DPW 18-131 EITC LIGHT DIESEL AND WELD SHOP**  
EASTERN IDAHO TECHNICAL COLLEGE  
IDAHO FALLS, ID

PROJECT:  
PROJECT NO. 17055  
DATE: APRIL 2018  
DRAWN BY: K P  
CHECKED BY: J H W

REVISIONS

PROJECT NO. 17055  
DATE: APRIL 2018  
DRAWN BY: K P  
CHECKED BY: J H W  
DRAWING NO.:

**Authorization to Bid**  
State of Idaho Division of Public Works  
Des: EITC - NBW Architects - Light Diesel and Weld Shop Interior Renovation, 1600 S 25th E., Idaho Falls, ID DPW18-131  
Date: 3/20/2018

**TS1.1**

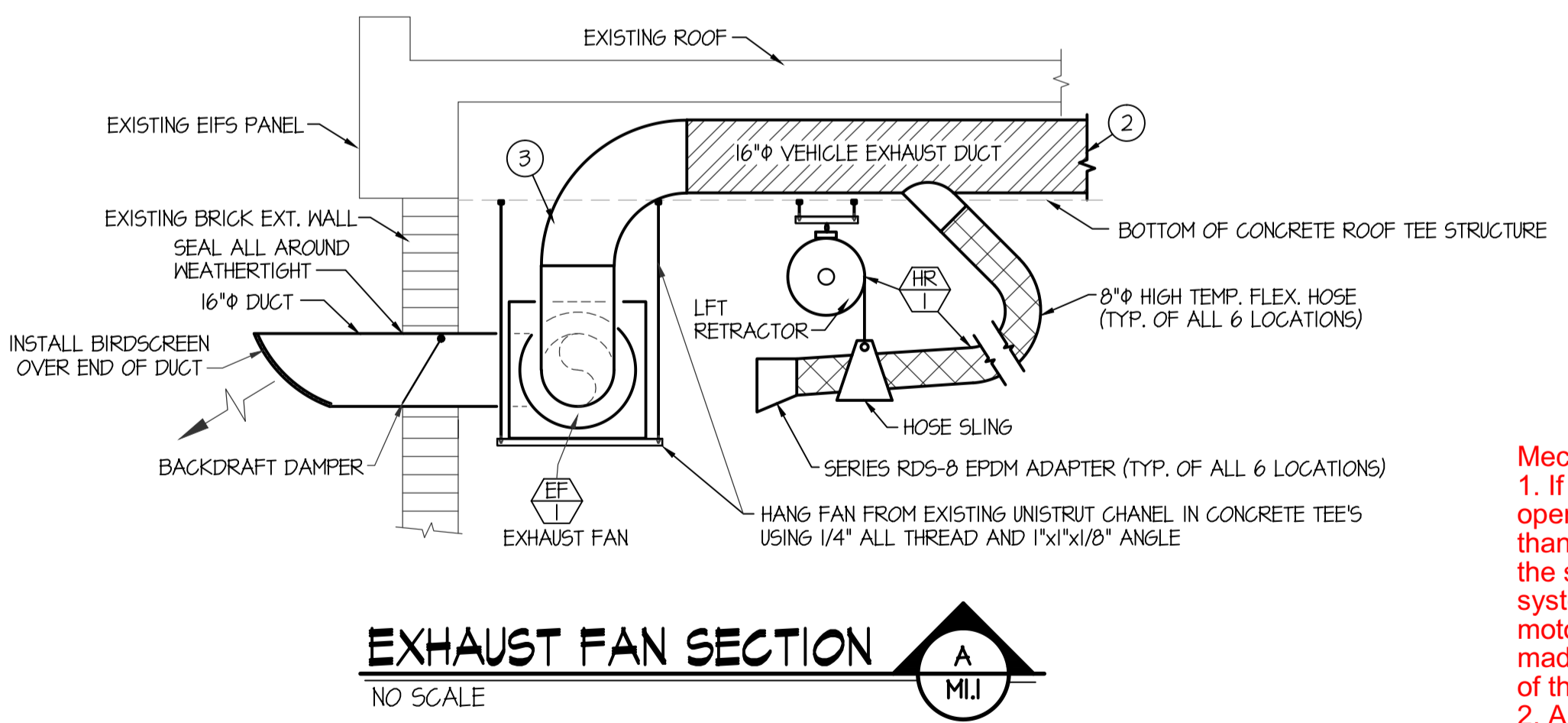
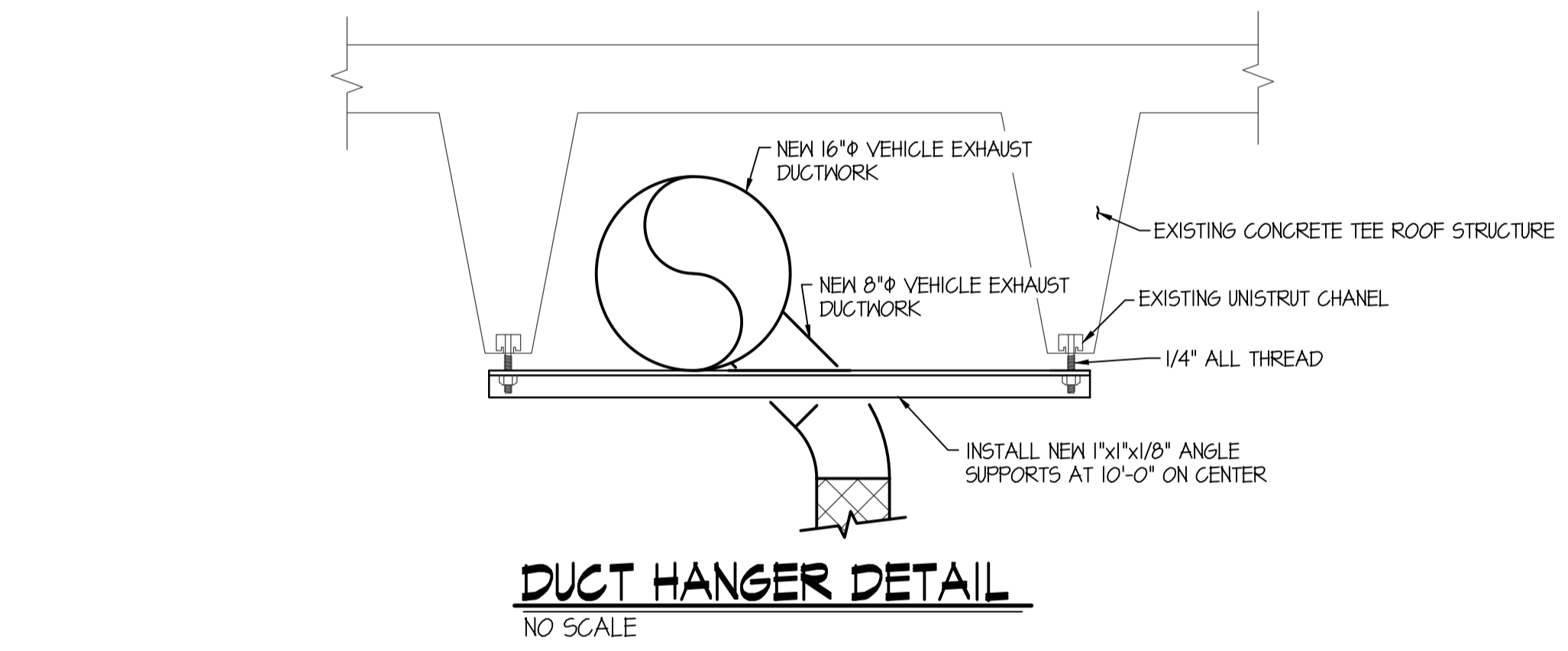






VEHICLE EXHAUST FAN SCHEDULE								
SYM.	TYPE	G.F.M.	S.P.E.	HP.	CHAR.	R.P.M.	CONTROL	REMARKS
	INLINE	3600	3.0"	3.0	208/60/3	1640	WALL SWITCH SEE ELEC.	CARMON MODEL CM-325L INLINE FAN

VEHICLE EXHAUST EQUIPMENT LIST	
SYMBOL	DESCRIPTION
	CARMON DEP-8 DIESEL EXHAUST PACKAGE - TO INCLUDE SERIES RDS-8 EPDM EXHAUST ADAPTER, LR LIFTING RING, 12'-0" HIGH TEMP. 8" HOSE AND FLANGE, LFT RETRACTOR AND HOSE SLING AND PP POSITIONING POLE. MOUNT LFT RETRACTOR TO EXISTING UNISTRUT CHANNEL IN CONCRETE TEE USING 1"x1"x1/8" ANGLE AND 1/4" ALL-THREAD CONNECTION.

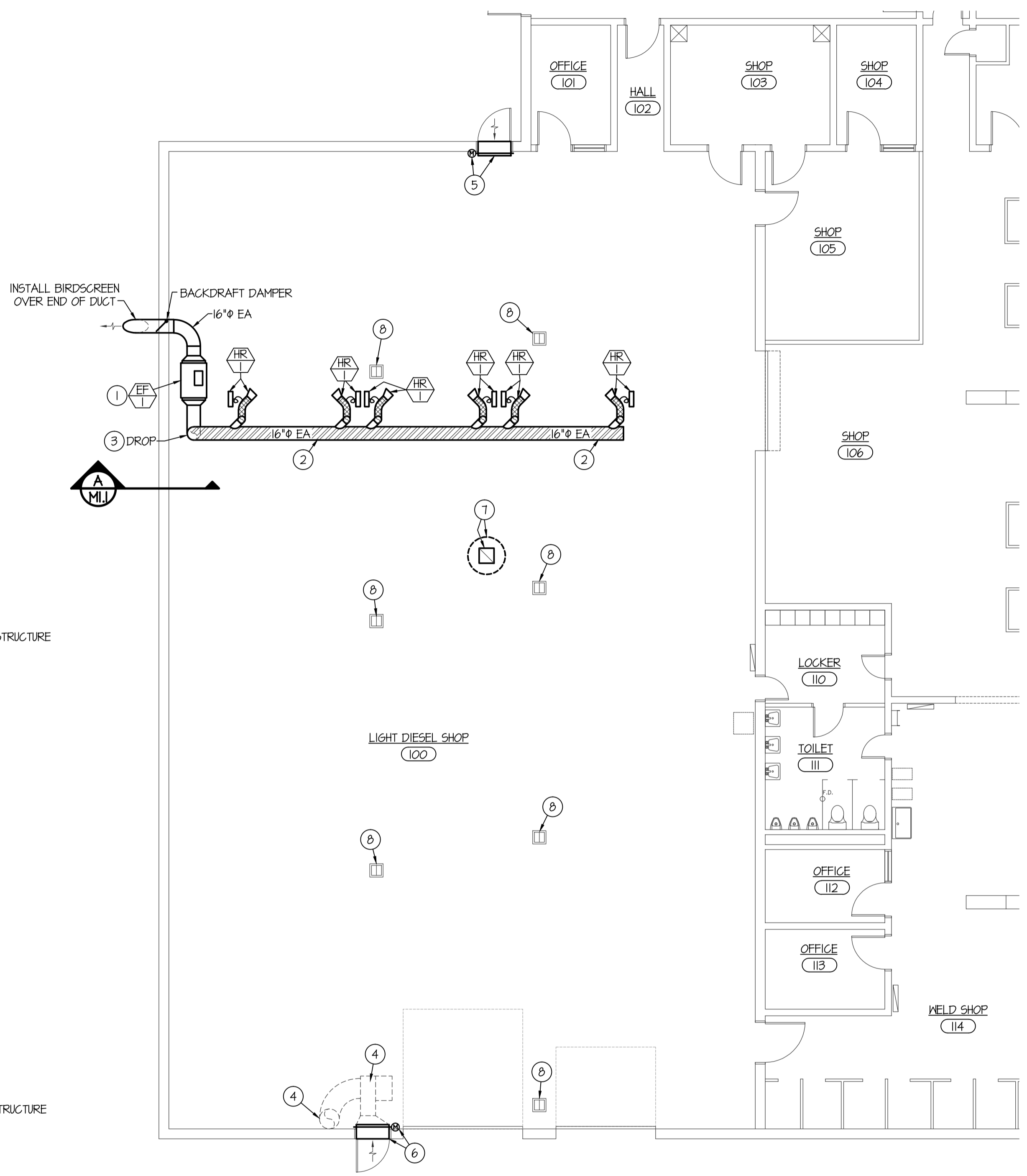


**Mechanical Plan Review: APPROVED**

1. If the stationary motor vehicles are operated while in the shop area other than to move the vehicle in and out of the shop then a source capture system that connects directly to the motor vehicle exhaust system shall be made available as per Section 502.14 of the 2012 IMC.

2. An air balance report shall be provided to the HVAC Inspector at the time of final mechanical inspection verifying adequate makeup air is provided to the shop area for the new vehicle exhaust system as per Section 403.7 of the 2012 IMC.

3. Final HVAC approval based upon on-site inspection for adherence to the 2012 IMC, 2012 IFGC, Idaho Statute Title 54 Chapter 50, stamped approved plans and manufacturers installation instructions.



**FLOOR PLAN - MECHANICAL**  
SCALE: 1/8" = 1'-0"  
North arrow pointing up.

MECHANICAL LEGEND	
SYMBOL	DESCRIPTION
①	PLAN NOTE
	EQUIPMENT SYMBOL
	TURNING VANES
	HIGH TEMP SPIRAL EXHAUST DUCT
	INLINE DIESEL EXHAUST FAN
	HIGHT TEMP. EXHAUST HOSE & ADAPTER KIT

- PLAN NOTES:**
- INSTALL NEW EXHAUST FAN AS HIGH AS POSSIBLE. HANG FAN FROM EXISTING CONCRETE TEE ROOF STRUCTURE USING ANGLE IRON AND ALL THREAD SUPPORTS (SEE SECTION A THIS SHEET).
  - INSTALL NEW 16" EA DUCT IN BETWEEN EXISTING CONCRETE TEE ROOF STRUCTURE AS HIGH AS POSSIBLE IN LOCATION SHOWN.
  - DROP 16" EA DUCT DOWN FROM BETWEEN CONCRETE TEES AND CONNECT TO EXHAUST FAN AS SHOWN. SEE SECTION "A" THIS SHEET.
  - REMOVE EXISTING VEHICLE EXHAUST FAN AND ALL ASSOCIATED DUCTWORK FROM FAN TO LOUVER AND FAN TO CONCRETE SLAB. CAP DUCT FLUSH WITH CONCRETE SLAB WITH SHEET METAL AND SEAL ALL AROUND.
  - EXISTING LOUVER AND MOTORIZED DAMPER TO REMAIN. INSTALL NEW MOTOR. INTERLOCK MOTORIZED DAMPER WITH NEW EXHAUST FAN EF-I.
  - EXISTING LOUVER TO REMAIN. INSTALL NEW MOTORIZED DAMPER IN LOUVER AND INTERLOCK WITH NEW EXHAUST FAN EF-I AND EXISTING BUILDING GENERAL EXHAUST FAN (SEE NOTE 7 BELOW). FIELD VERIFY EXISTING SIZE OF LOUVER PRIOR TO ORDERING MOTORIZED DAMPER.
  - EXISTING ROOFTOP EXHAUST FAN AND ALL ASSOCIATED DUCTWORK AND GRILLE TO REMAIN. INSTALL NEW MOTOR AND BELTS AS REQUIRED. FIELD VERIFY EXISTING MAKE AND MODEL PRIOR TO ORDERING NEW MOTOR AND BELTS.
  - EXISTING VEHICLE EXHAUST FLOOR PORT TO BE ABANDONED IN PLACE. SEE ARCH. PLANS FOR NEW STEEL COVERS WHERE REQUIRED.

- GENERAL NOTES:**
- A- THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND CONNECTIONS ON THE JOB SITE. ALL WORK SHALL BE EXECUTED FROM MEASUREMENTS TAKEN AT THE SITE.
  - B- THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE TO INSURE PROPER CODE CLEARANCES FOR ELECTRICAL AND MECHANICAL ACCESS WHEN INSTALLING ANY EQUIPMENT SUPPLIED BY THE MECHANICAL CONTRACTOR.
  - C- IT IS CRITICAL THAT THIS CONTRACTOR COORDINATE EQUIPMENT LOCATIONS WITH PIPING, DUCTWORK, ELECTRICAL CONDUIT AND BUILDING STRUCTURE TO INSURE CODE COMPLIANCE.
  - D- CEILING DIFFUSERS ARE SHOWN IN APPROXIMATE LOCATIONS. REFER TO LIGHTING PLANS AND REFLECTED CEILING PLAN FOR EXACT LOCATIONS.
  - E- DUCT DIMENSIONS CALLED OUT ON DRAWINGS ARE INSIDE FREE AREA DIMENSIONS. ACOUSTICAL DUCT LINER ARE TO BE ADDED TO OVERALL MEASUREMENTS.

ORIGINAL DRAWING SIGNED BY: DWAYNE C. SIDWEEKS  
DATE ORIGINAL SIGNED: APRIL 1, 2018  
ORIGINAL ON FILE AT ENGINEERED SYSTEMS ASSOCIATES  
1855 EAST CENTER, POCATELLO, IDAHO 83201

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REMODEL FOR:  
**DPW 18-131 EITC LIGHT DIESEL AND WELDING SHOP**  
EASTERN IDAHO TECHNICAL COLLEGE  
IDAHO FALLS, ID

SHEET TITLE:  
**MECHANICAL FLOOR PLAN**

REVISIONS

PROJECT NO. 17065  
DATE: APRIL 2018  
DRAWN BY: SR  
CHECKED BY: DCS

DRAWING NO.: **M1.1**

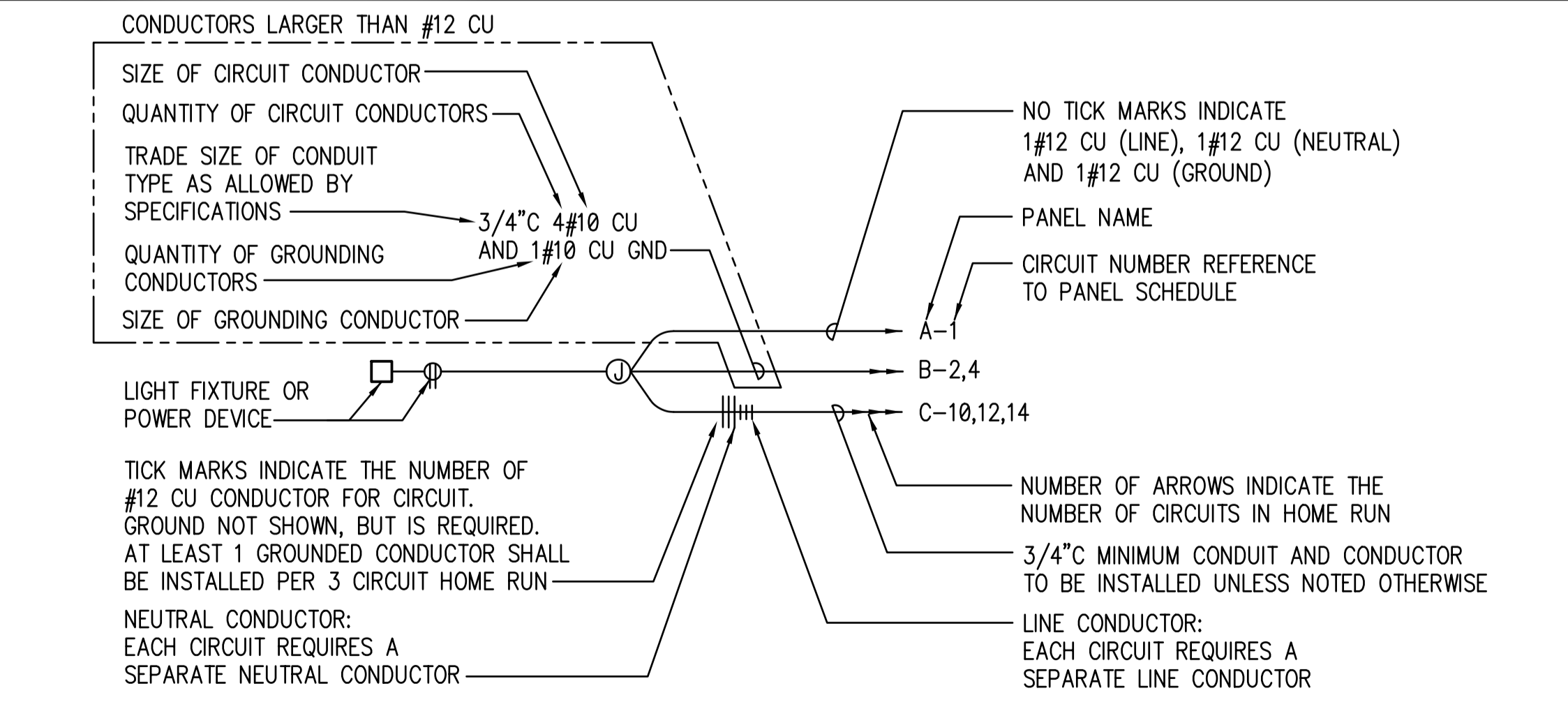


### LIGHTING LEGEND

<p>LIGHT FIXTURE TYPE AND ZONING DESCRIPTION: UPPER CASE LETTER DESIGNATES FIXTURE TYPE AS INDICATED ON LIGHTING FIXTURE SCHEDULE LOWER CASE LETTER DESIGNATES SWITCHING ZONE</p>	
	2' X 4' LIGHT FIXTURE, RECESSED IN LAY-IN CEILING
	2' X 4' LIGHT FIXTURE, RECESSED IN LAY-IN CEILING WITH EMERGENCY BATTERY PACK
	2' X 4' LIGHT FIXTURE, RECESSED IN LAY-IN CEILING WITH UNSWITCHED CONTINUOUS NIGHT LIGHT OPERATION
	2' X 4' LIGHT FIXTURE, RECESSED IN LAY-IN CEILING WITH UNSWITCHED CONTINUOUS NIGHT LIGHT OPERATION AND WITH EMERGENCY BATTERY PACK
	2' X 2' LIGHT FIXTURE, RECESSED IN LAY-IN CEILING
	2' X 2' LIGHT FIXTURE, RECESSED IN LAY-IN CEILING WITH EMERGENCY BATTERY PACK
	2' X 2' LIGHT FIXTURE, RECESSED IN LAY-IN CEILING WITH UNSWITCHED CONTINUOUS NIGHT LIGHT OPERATION
	2' X 2' LIGHT FIXTURE, RECESSED IN LAY-IN CEILING WITH UNSWITCHED CONTINUOUS NIGHT LIGHT OPERATION AND WITH EMERGENCY BATTERY PACK
	1' X 4' LIGHT FIXTURE, RECESSED IN LAY-IN CEILING
	1' X 4' LIGHT FIXTURE, RECESSED IN LAY-IN CEILING WITH EMERGENCY BATTERY PACK
	1' X 4' LIGHT FIXTURE, RECESSED IN LAY-IN CEILING, WITH UNSWITCHED CONTINUOUS NIGHT LIGHT OPERATION
	1' X 4' LIGHT FIXTURE, RECESSED IN LAY-IN CEILING, WITH UNSWITCHED CONTINUOUS NIGHT LIGHT OPERATION AND WITH EMERGENCY BATTERY PACK
	1' X 4' LIGHT FIXTURE, SURFACE MOUNTED TO STRUCTURE
	1' X 4' LIGHT FIXTURE, SURFACE MOUNTED TO STRUCTURE WITH EMERGENCY BATTERY PACK
	1' X 4' LIGHT FIXTURE, SURFACE MOUNTED TO STRUCTURE WITH UNSWITCHED CONTINUOUS NIGHT LIGHT OPERATION
	1' X 4' LIGHT FIXTURE, SURFACE MOUNTED TO STRUCTURE WITH UNSWITCHED CONTINUOUS NIGHT LIGHT OPERATION AND WITH EMERGENCY BATTERY PACK
	6" X 4' LIGHT FIXTURE, SURFACE MOUNTED TO STRUCTURE
	6" X 4' LIGHT FIXTURE, SURFACE MOUNTED TO STRUCTURE WITH EMERGENCY BATTERY PACK
	6" X 4' LIGHT FIXTURE, SURFACE MOUNTED TO STRUCTURE WITH UNSWITCHED CONTINUOUS NIGHT LIGHT OPERATION
	6" X 4' LIGHT FIXTURE, SURFACE MOUNTED TO STRUCTURE WITH UNSWITCHED CONTINUOUS NIGHT LIGHT OPERATION AND WITH EMERGENCY BATTERY PACK
	LIGHT FIXTURE, SURFACE MOUNTED TO STRUCTURE
	LIGHT FIXTURE, SURFACE MOUNTED TO STRUCTURE WITH EMERGENCY BATTERY PACK
	LIGHT FIXTURE, SURFACE MOUNTED TO STRUCTURE WITH UNSWITCHED CONTINUOUS NIGHT LIGHT OPERATION
	LIGHT FIXTURE, SURFACE MOUNTED TO STRUCTURE WITH UNSWITCHED CONTINUOUS NIGHT LIGHT OPERATION AND WITH EMERGENCY BATTERY PACK
	RECESSED CAN LIGHT LIGHT FIXTURE
	RECESSED CAN LIGHT LIGHT FIXTURE WITH EMERGENCY BATTERY PACK
	RECESSED CAN LIGHT LIGHT FIXTURE WITH UNSWITCHED CONTINUOUS NIGHT LIGHT OPERATION
	RECESSED CAN LIGHT LIGHT FIXTURE WITH UNSWITCHED CONTINUOUS NIGHT LIGHT OPERATION AND WITH EMERGENCY BATTERY PACK
	LIGHT FIXTURE, WALL MOUNTED, SCONCE
	LIGHT FIXTURE, WALL MOUNTED, SCONCE WITH EMERGENCY BATTERY PACK
	LIGHT FIXTURE, WALL MOUNTED, SCONCE WITH UNSWITCHED CONTINUOUS NIGHT LIGHT OPERATION
	LIGHT FIXTURE, WALL MOUNTED, SCONCE WITH UNSWITCHED CONTINUOUS NIGHT LIGHT OPERATION AND WITH EMERGENCY BATTERY PACK
	EXTERIOR WALL MOUNTED FIXTURE
	EXTERIOR WALL MOUNTED FIXTURE WITH EMERGENCY BATTERY PACK
	WALL OR CEILING MOUNTED EXIT LIGHT
	WALL OR CEILING MOUNTED EXIT LIGHT ARROWS INDICATE ARROW ON LIGHT TO SHOW DIRECTION OF NEAREST EXIT
	WALL OR CEILING MOUNTED COMBINATION EXIT LIGHT
	WALL OR CEILING MOUNTED COMBINATION EXIT LIGHT ARROWS INDICATE ARROW ON LIGHT TO SHOW DIRECTION OF NEAREST EXIT
	REMOTE EMERGENCY LIGHT
	EMERGENCY LIGHT
	SWITCH AT +48"
	TOP - LOWER CASE LETTER DESIGNATES SWITCHING ZONE BOTTOM - UPPER CASE LETTER DESIGNATES SWITCH TYPE
	3 INDICATES 3 WAY SWITCH
	4 INDICATES 4 WAY SWITCH
	D DIMMER
	T TIMER
	WALL MOUNT OCCUPANCY SENSOR
	CEILING MOUNT OCCUPANCY SENSOR
	TIMECLOCK

NOTE: ALL SYMBOLS MAY NOT BE USED ON THIS PROJECT

### CIRCUITING LEGEND



### 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
	ELECTRICAL PANEL
	SURFACE RACEWAY
	DUPLEX RECEPTACLE AT +18 INCHES UNLESS NOTED OTHERWISE
	GFI GROUND FAULT INTERRUPTER
	C MOUNTED ON CEILING
	S SURGE SUPPRESSION
	WP IN-USE WEATHERPROOF RATED COVER WITH WEATHER RESISTANT GFI RECEPTACLE
	DOUBLE DUPLEX RECEPTACLE AT +18 INCHES UNLESS NOTED OTHERWISE
	GFI GROUND FAULT INTERRUPTER MOUNTED ON CEILING
	S 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 DUPLEX RECEPTACLE AND CABLE JUNCTION BOX LOCATION
	30A, 250V SPECIAL PURPOSE RECEPTACLE
	50A, 250V SPECIAL PURPOSE RECEPTACLE
	ELECTRICAL METER
	CURRENT TRANSFORMER CABINET
	UNIT HEATER
	FAN FORCED WALL HEATER
	WATER HEATER
	ELECTRIC BASEBOARD HEATER
	MECHANICAL EQUIPMENT CALLOUT

NOTE: ALL SYMBOLS MAY NOT BE USED ON THIS PROJECT

### ONE-LINE LEGEND

	NON-FUSED SWITCH (OPEN)
	NON-FUSED SWITCH (CLOSED)
	FUSED SWITCH (OPEN)
	FUSED SWITCH (CLOSED)
	START BUTTON
	STOP BUTTON
	CIRCUIT BREAKER
	OVER LOAD HEATER
	NORMALLY OPEN SWITCH
	NORMALLY CLOSED SWITCH
	TRANSFORMER
	FUSE
	HAND/OFF/AUTO SWITCH
	CURRENT TRANSFORMER
	GROUND (EARTH GROUND)
	MOTOR
	F INDICATES FAN (FRACTIONAL HORSEPOWER)
	# INDICATES MOTOR SIZE (IN HORSEPOWER)
	ELECTRICAL PANEL
	PACKAGED EQUIPMENT
	a SIZE
	b HP, KW, KVA
	COMBINATION STARTER WITH CONTROL PANEL POWER TRANSFORMER
	a CIRCUIT BREAKER DISCONNECT, TYPE AS NOTED
	b STARTER TYPE
	c NEMA STARTER SIZE
	d OVERLOAD HEATERS

NOTE: ALL SYMBOLS MAY NOT BE USED ON THIS PROJECT

### DATA/COMMUNICATIONS LEGEND

	TELEPHONE JACK, +18" UNLESS NOTED OTHERWISE
	# INDICATES QUANTITY OF STRUCTURED CABLES TERMINATING ON RJ45 JACK(S) AT FACEPLATE.
	TELEPHONE/COMM JACK, +18" UNLESS NOTED OTHERWISE
	# INDICATES QUANTITY OF STRUCTURED CABLES TERMINATING ON RJ45 JACK(S) AT FACEPLATE.
	COMMUNICATION 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)
	SURFACE RACEWAY
	DATA/COMM/POWER FLOOR BOX
	19" 4 POST NETWORK RACK
	19" 2 POST NETWORK RACK
	WALL MOUNTED NETWORK RACK

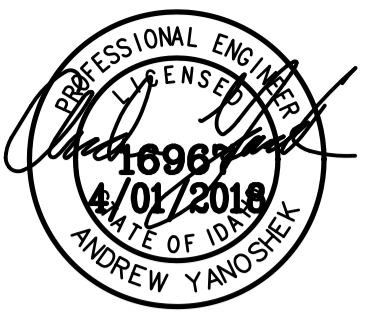
NOTE: ALL SYMBOLS MAY NOT BE USED ON THIS PROJECT

### ABBREVIATIONS

AL	ALUMINUM
AWG	AMERICAN WIRE GAUGE
A	AMPERE(S)
CKT	CIRCUIT
CB	CIRCUIT BREAKER
C	CONDUIT
CU	COPPER
CT	CURRENT TRANSFORMER
DISC	DISCONNECT
DWG	DRAWING
EMT	ELECTRICAL METALLIC TUBING
HZ	FREQUENCY IN CYCLES PER SECOND
F	FUSE
FS	FUSIBLE SWITCH
GEN	GENERATOR
GND	GROUND
GFI	GROUND FAULT INTERRUPTER
HP	HORSEPOWER
HPS	HIGH PRESSURE SODIUM
IMC	INTERMEDIATE METALLIC CONDUIT
INC	INCANDESCENT
KVA	KILOWATT VOLT AMPS
KW	KILOWATT(S)
MCC	MOTOR CONTROL CENTER
KCMIL	THOUSAND CIRCULAR MIL(S)
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NTS	NOT TO SCALE
NIC	NOT IN CONTRACT
PNL	PANEL
PVC	POLYVINYL CHLORIDE
GRS	GALVANIZED RIGID STEEL
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

### ELECTRICAL DRAWING LIST

E0.1	ELECTRICAL COVER SHEET
E1.1	LIGHTING AND POWER DEMOLITION AND INSTALLATION PLANS
E2.1	PANEL AND FIXTURE SCHEDULES
FA1.1	FIRE ALARM PLAN



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REMODEL FOR:  
**DPW 18-131 EITC LIGHT DIESEL AND WELDING SHOP**  
EASTERN IDAHO TECHNICAL COLLEGE  
IDAHO FALLS, ID

ELECTRICAL COVER SHEET

PROJECT: DPW 18-131 EITC LIGHT DIESEL AND WELDING SHOP

DATE: APRIL 2018

DRAWN BY: DBH

CHECKED BY: MNB

DRAWING NO.:

REVISIONS

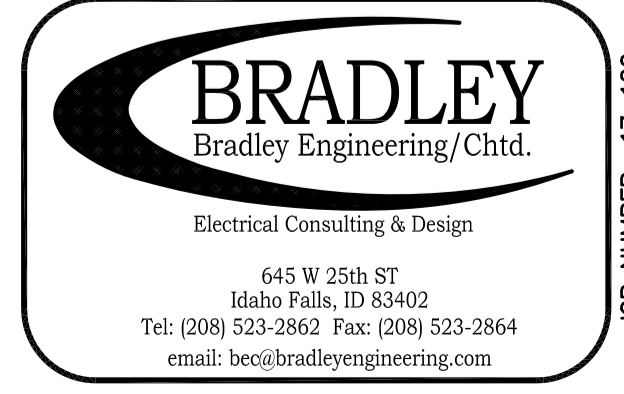
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DATE: APRIL 2018

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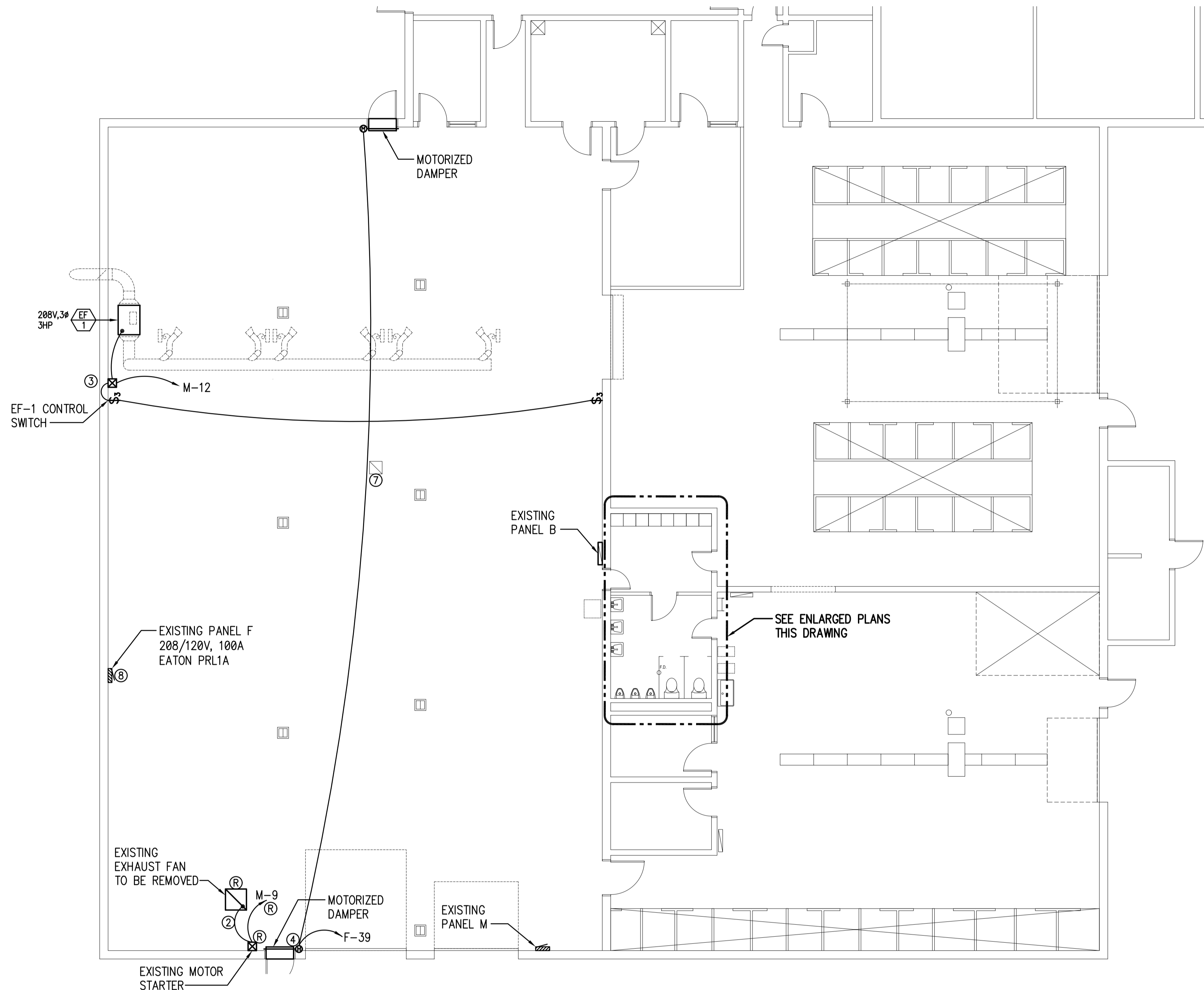
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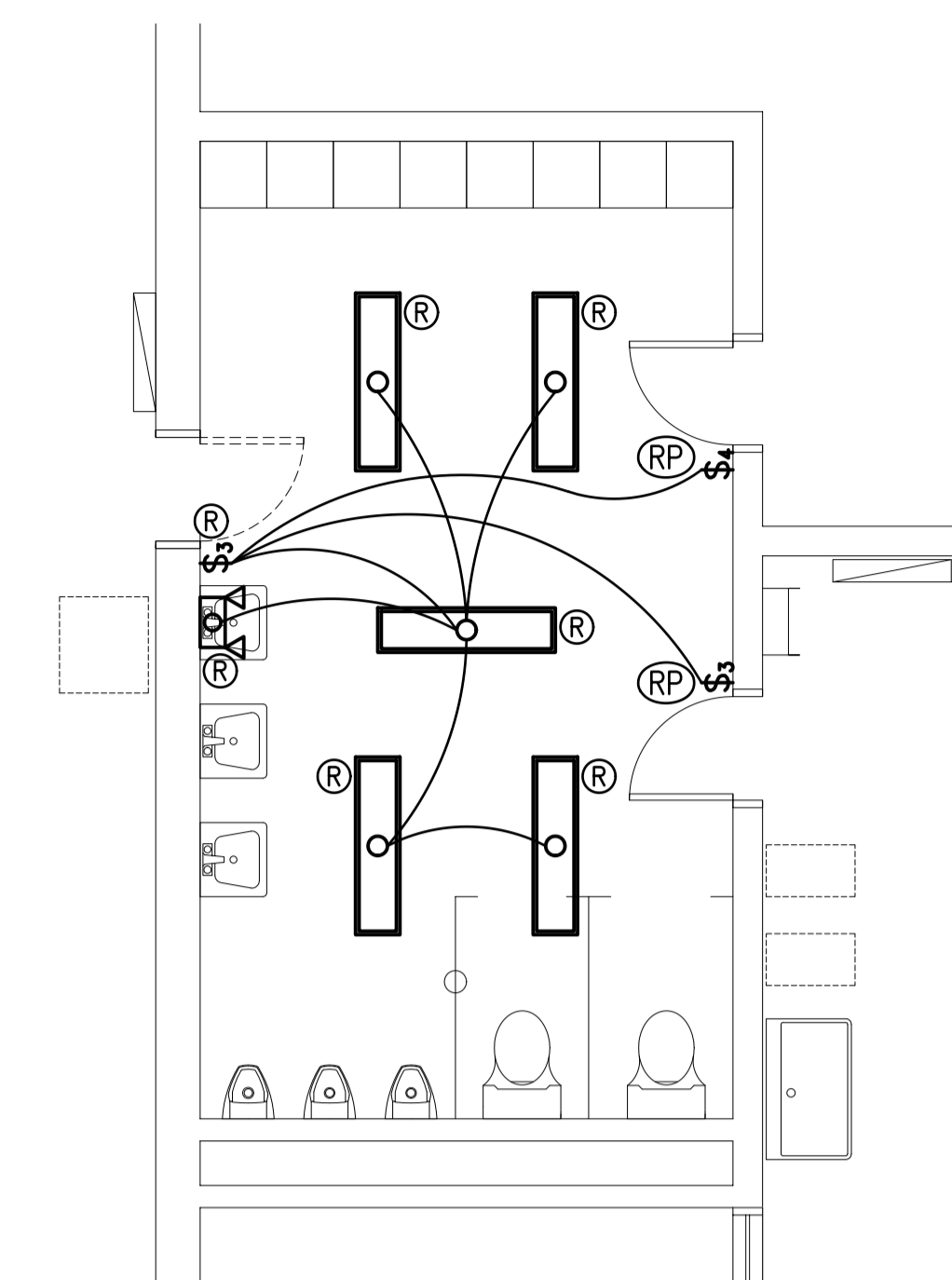
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JOB NUMBER: 17-126

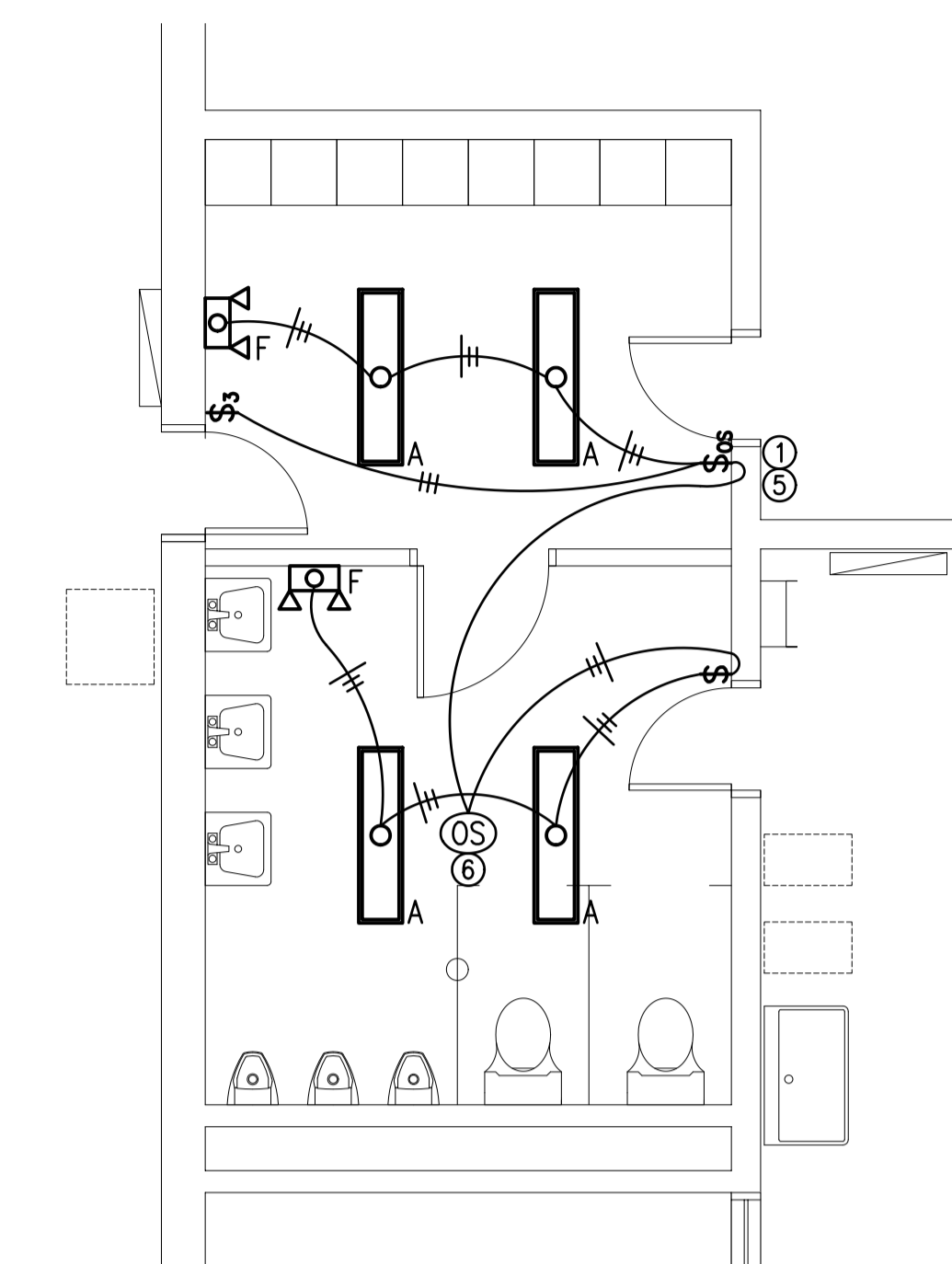


**FLOOR PLAN**  
 SCALE: 1/8" = 1'-0"

Approval of the submitted documentation and drawings by an Electrical Plan Review does not alleviate the applicant, contractor, or individuals from adherence to the 2017 National Electrical Code and local code requirements as they are adopted. Final approval will be based upon on-site Electrical Inspections. Electrical service equipment, panels, and overcurrent protective devices shall be in compliance with NEC 110.9 and 110.10. The maximum available fault current at each electrical panel and equipment, to include if present transformers, generators, and ATS/MTS, shall be calculated and provided to the Electrical Inspector at the time of inspection for field verification.



**ENLARGED LIGHTING DEMOLITION PLAN**  
 SCALE: 1/4" = 1'-0"



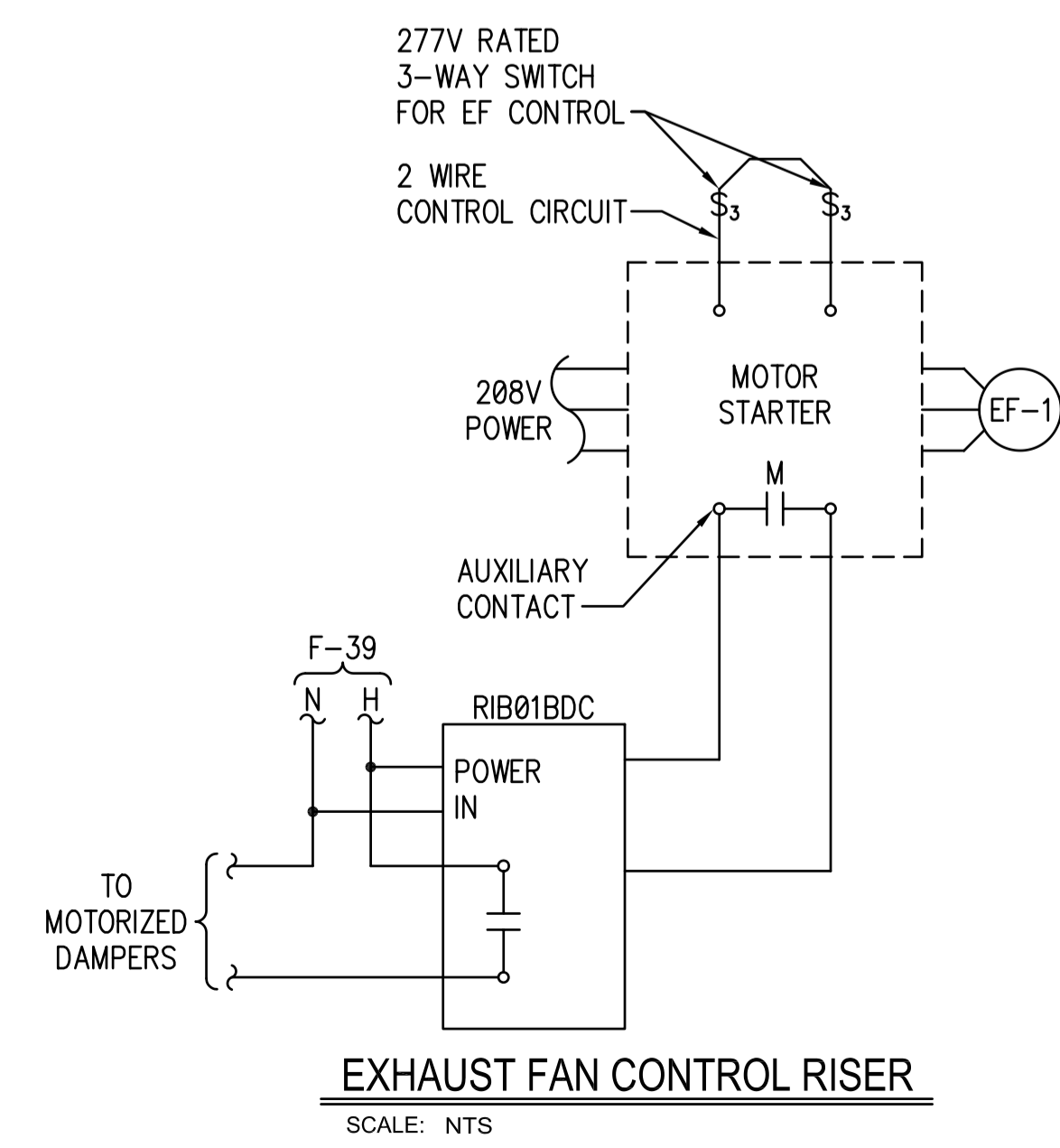
**ENLARGED LIGHTING INSTALLATION PLAN**  
 SCALE: 1/4" = 1'-0"

**DEMOLITION NOTES:**

1. FIELD VERIFY ALL CIRCUITS PRIOR TO WORK ON ANY CIRCUIT.
2. (R) INDICATES ITEMS TO BE REMOVED. REMOVE DEVICE, AND ALL CONDUCTORS PERTAINING TO THE DEVICE. ABANDON, REMOVE OR REUSE CONDUITS OR RACEWAY AS IT FITS THE INTENT OF THE PROJECT. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF EQUIPMENT AND PROVIDE COVER PLATES AS REQUIRED.
  - (R) INDICATES DEVICE TO BE RELOCATED.
  - (R) INDICATES DEVICE TO BE REPLACED.
  - (R) INDICATES EXISTING DEVICE TO REMAIN.

**DRAWING KEY NOTES:**

- 1 RECONNECT NEW LIGHTING CIRCUIT TO EXISTING HOME RUN CONDUCTORS.
- 2 DISCONNECT EXHAUST FAN, REMOVE MOTOR STARTER AND ALL ASSOCIATED CONDUIT AND WIRING BACK TO PANEL.
- 3 PROVIDE 208V, 3Ø, 3HP COMBINATION DISCONNECT AND MOTOR STARTER WITH AUXILIARY NORMALLY OPEN CONTACT SQUARE D 8538SBA OR EQUAL.
- 4 PROVIDE DRY CONTACT RELAY RIBØ1BDC OR EQUAL FOR CONTROL OF MOTORIZED DAMPERS.
- 5 PROVIDE OCCUPANCY SENSOR SWITCH, SENSOR SWITCH WSD-WH OR EQUAL.
- 6 PROVIDE LINE VOLTAGE DUAL TECHNOLOGY OCCUPANCY SENSOR SWITCH CMR-PDT-9 OR EQUAL.
- 7 MOTORS ON EXISTING ROOF TOP EXHAUST FAN TO BE REPLACED BY MECHANICAL DISCONNECT AND RECONNECT POWER TO UNIT TO FACILITATE REPLACEMENT.
- 8 PROVIDE NEW 20A-1P CIRCUIT BREAKER IN SPACE 39 FOR POWERING MOTORIZED DAMPERS.



**EXHAUST FAN CONTROL RISER**  
 SCALE: NTS



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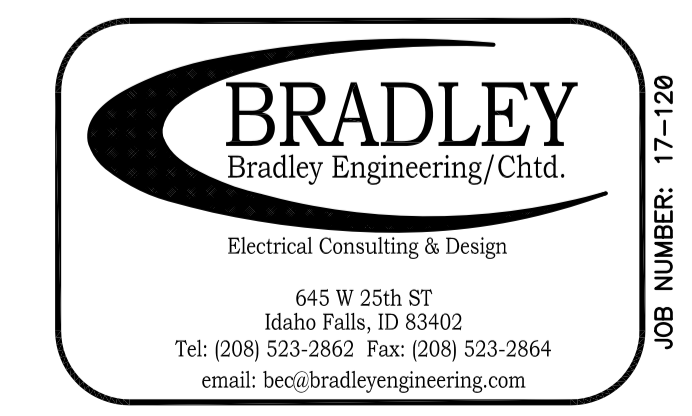
REMODEL FOR:  
**DPW 18-131 EITC LIGHT DIESEL AND WELDING SHOP**  
 EASTERN IDAHO TECHNICAL COLLEGE  
 IDAHO FALLS, ID

PROJECT:  
 SHEET TITLE:  
**LIGHTING AND POWER DEMOLITION AND INSTALLATION PLANS**

REVISIONS

PROJECT NO. 17065  
 DATE: APRIL 2018  
 DRAWN BY: DBH  
 CHECKED BY: MNG

DRAWING NO. :



**E1.1**

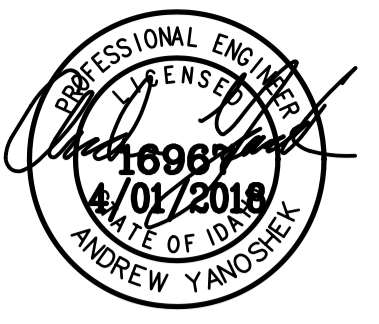
JOB NUMBER: 17-128

PANEL M (EXISTING)												
VOLTAGE: 208 / 120 V			DIMENSION: PER NEC			LOCATION: WELD SHOP						
PANEL AMP RATING: 800A			WITH 800A MCB			MOUNTING: SURFACE			NEMA ENCLOSURE: 1			
WIRES: 4			PHASE: 3			FEED: TOP			TYPE: GE CCB			
LOAD DESCRIPTION	PH	LOAD WATT	BKR AMPS	CKT NO	LOAD			CKT NO	BKR AMPS	LOAD WATT	PH	LOAD DESCRIPTION
					A	B	C					
SPARE	A			1	0	0	0	2			A	SPARE
	B								250		B	
	C		400	3	0	0	0	4			C	
3 POLE												3 POLE
PANEL D	A			5	0	0	0	6			A	PANEL C
	B										B	
	C										C	
3 POLE												3 POLE
SPACE	A			7	0	0	0	8			A	PANEL F
	B										B	
	C										C	
3 POLE												3 POLE
PANEL A	A			9	0	0	0	10			A	EXHAUST FAN
	B										B	
	C										C	
3 POLE												3 POLE
SPARE	A		60	11	0	0	0	12			A	SPACE
	B										B	
	C										C	
3 POLE												3 POLE
SPACE	A			13	0	0	0	14	150		A	SPARE
	B										B	
	C										C	
3 POLE												3 POLE
FEEDER BREAKER	TOTAL LOAD PER PHASE-WATTS				0	0	0	FEED FROM: MDP				
RATING: 800A	TOTAL LOAD PER PHASE-AMPS				0	0	0	PANEL ISC RATING 18,000				
WIRE SIZE: 2 RUNS OF 3-600 KCMIL CU, 1-350 KCMIL NEUT, & 1#1/0 CU GND					CONDUIT SIZE: 2-3 1/2" C							

PANEL M (NEW WORK)												
VOLTAGE: 208 / 120 V			DIMENSION: PER NEC			LOCATION: WELD SHOP						
PANEL AMP RATING: 800A			WITH 800A MCB			MOUNTING: SURFACE			NEMA ENCLOSURE: 1			
WIRES: 4			PHASE: 3			FEED: TOP			TYPE: GE CCB			
LOAD DESCRIPTION	PH	LOAD WATT	BKR AMPS	CKT NO	LOAD			CKT NO	BKR AMPS	LOAD WATT	PH	LOAD DESCRIPTION
					A	B	C					
SPARE	A			1	0	0	0	2			A	SPARE
	B								250		B	
	C		400	3	0	0	0	4			C	
3 POLE												3 POLE
PANEL D	A			5	0	0	0	6	150		A	PANEL C
	B		150								B	
	C										C	
3 POLE												3 POLE
SPACE	A			7	0	0	0	8	100		A	PANEL F
	B										B	
	C										C	
3 POLE												3 POLE
PANEL A	A			9	0	0	0	10	30		A	EXHAUST FAN
	B		100								B	
	C										C	
3 POLE												3 POLE
SPARE	A		60	11	0	0	0	12	20		A	EXHAUST FAN EF-1
	B										B	
	C										C	
3 POLE												3 POLE
SPACE	A			13	0	0	0	14	150		A	PANEL B
	B										B	
	C										C	
3 POLE												3 POLE
FEEDER BREAKER	TOTAL LOAD PER PHASE-WATTS				0	0	0	FEED FROM: MDP				
RATING: 800A	TOTAL LOAD PER PHASE-AMPS				0	0	0	PANEL ISC RATING 18,000				
WIRE SIZE: 2 RUNS OF 3-600 KCMIL CU, 1-350 KCMIL NEUT, & 1#1/0 CU GND					CONDUIT SIZE: 2-3 1/2" C							

NOTE:  
1) PROVIDE NEW CIRCUIT AS SHOWN FOR NEW LOAD.

FIXTURE SCHEDULE						
SYMBOL	MANUFACTURER		FIXT WATTS	LAMP TYPE	MOUNTING	REMARKS
	NAME	CAT. NO.				
A	LITHONIA	LBL4-30L-EZ1-LP840	27W	LED	SURFACE	4' SURFACE MOUNT LED WRAP
				4000K		3000 LUMEN OUTPUT, 4000K, 80 CRI
F	LITHONIA	ELM2-LED-SD	1W	LED	SURFACE	LED EMERGENCY FIXTURE
						SELF DIAGNOSTICS



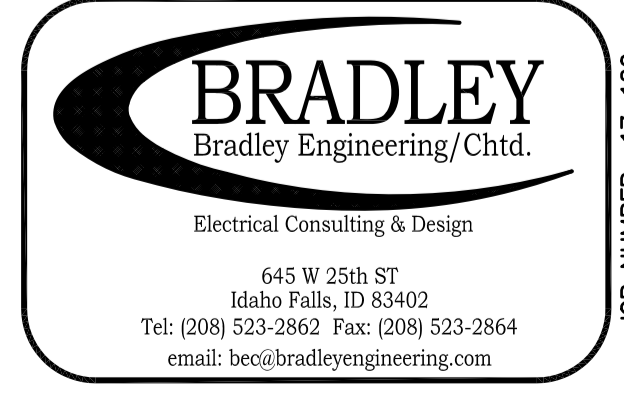
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REMODEL FOR:  
**DPW 18-131 EITC LIGHT DIESEL AND WELDING SHOP**  
 EASTERN IDAHO TECHNICAL COLLEGE  
 IDAHO FALLS, ID  
 PROJECT: \_\_\_\_\_  
 SHEET TITLE: **PANEL AND FIXTURE SCHEDULES**

REVISIONS

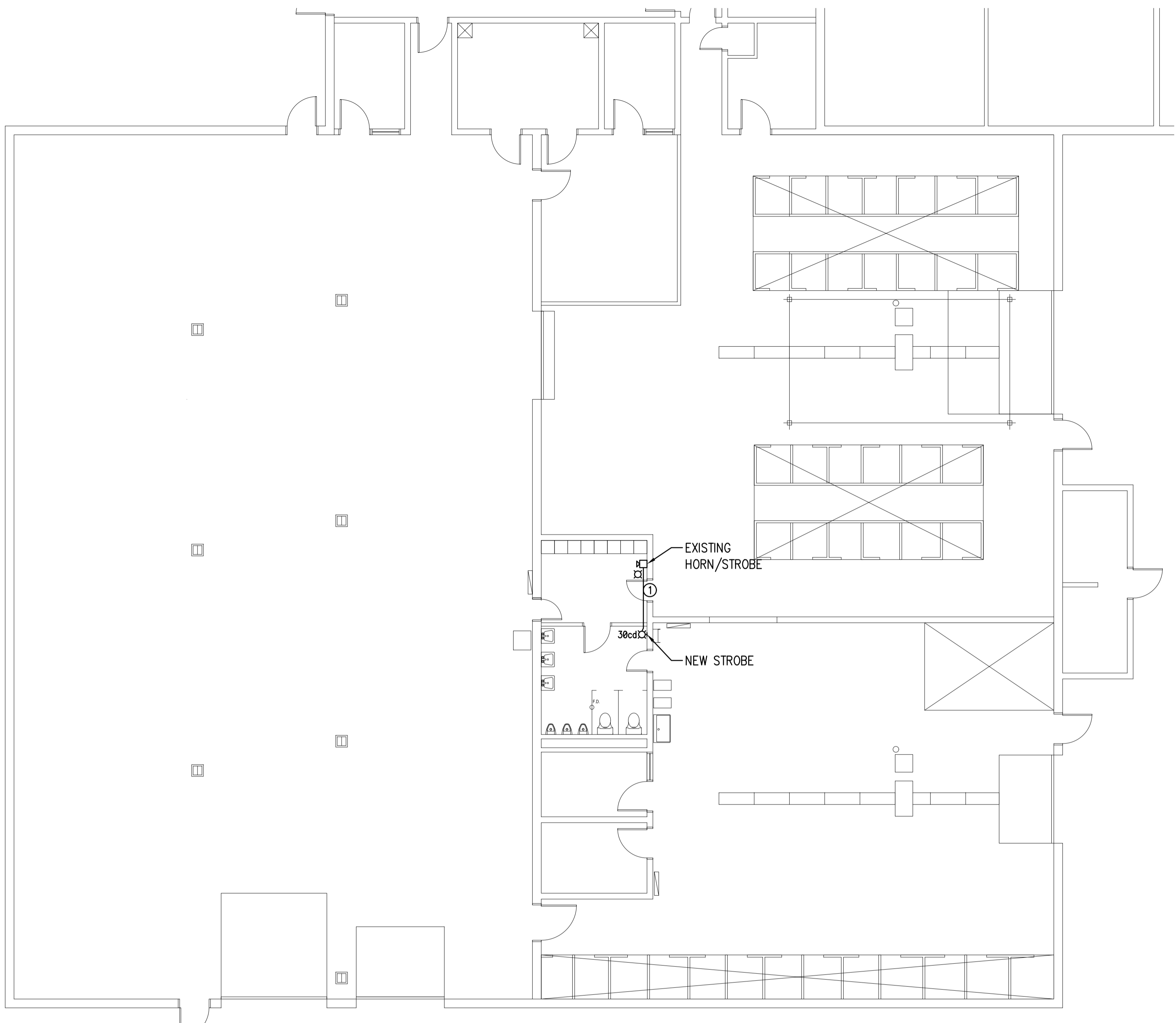
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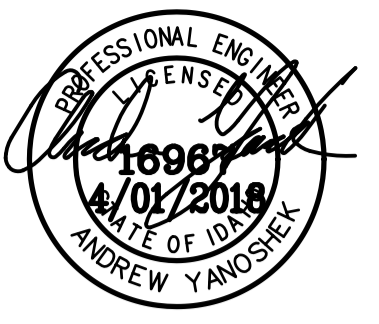
**E2.1**

JOB NUMBER: 17-126



DRAWING KEY NOTES:  
 ① EXTEND NOTIFICATION CIRCUIT TO NEW HORN/STROBE.

**FIRE ALARM PLAN**  
 SCALE: 1/8" = 1'-0"



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PROJECT: **REMODEL FOR:  
 DPW 18-131 EITC LIGHT DIESEL AND WELDING SHOP  
 EASTERN IDAHO TECHNICAL COLLEGE  
 IDAHO FALLS, ID**

SHEET TITLE: **FIRE ALARM PLAN**

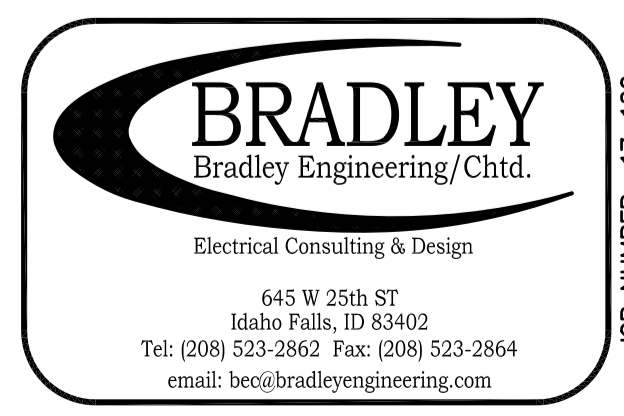
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JOB NUMBER: 17-126