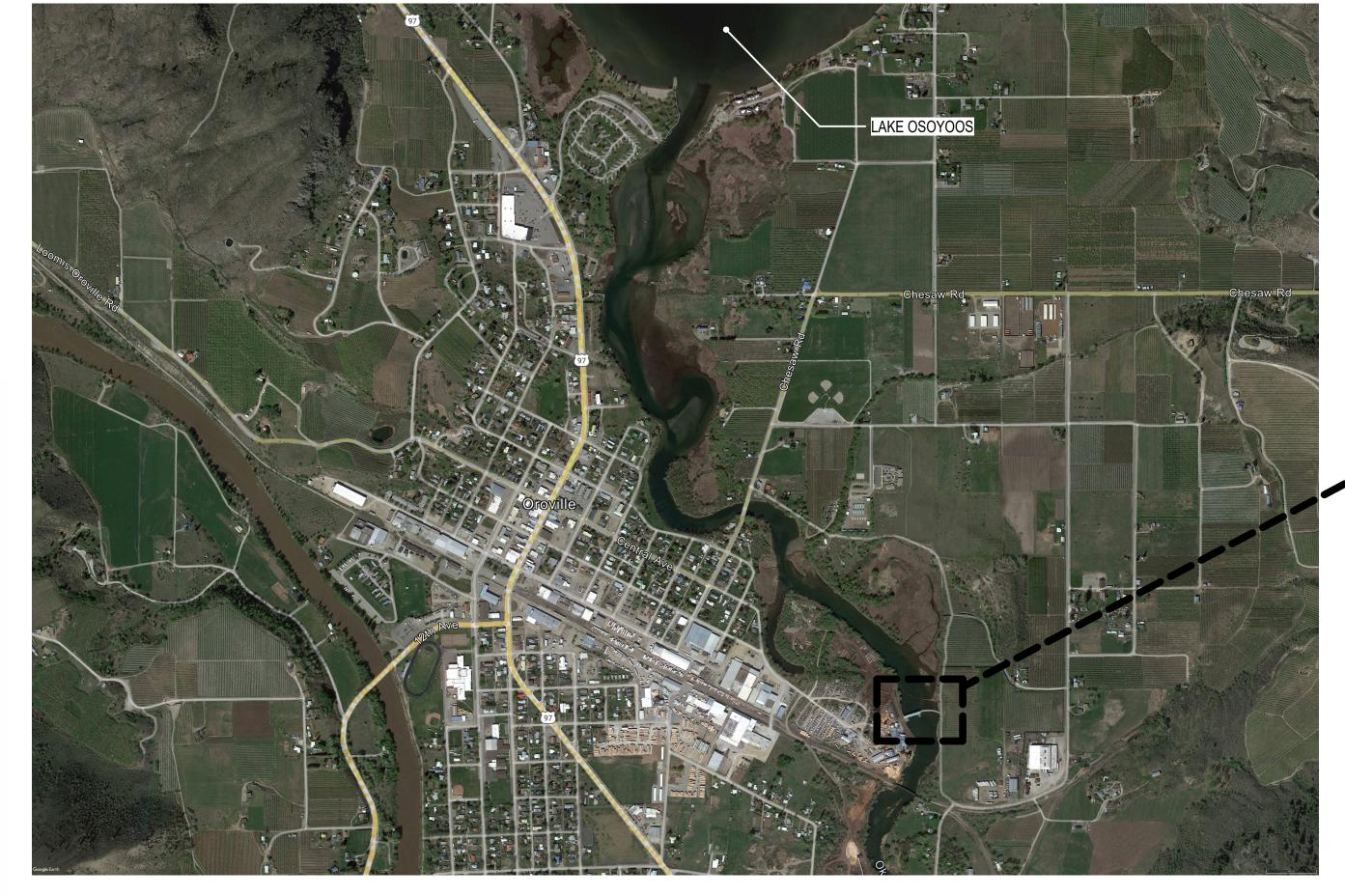
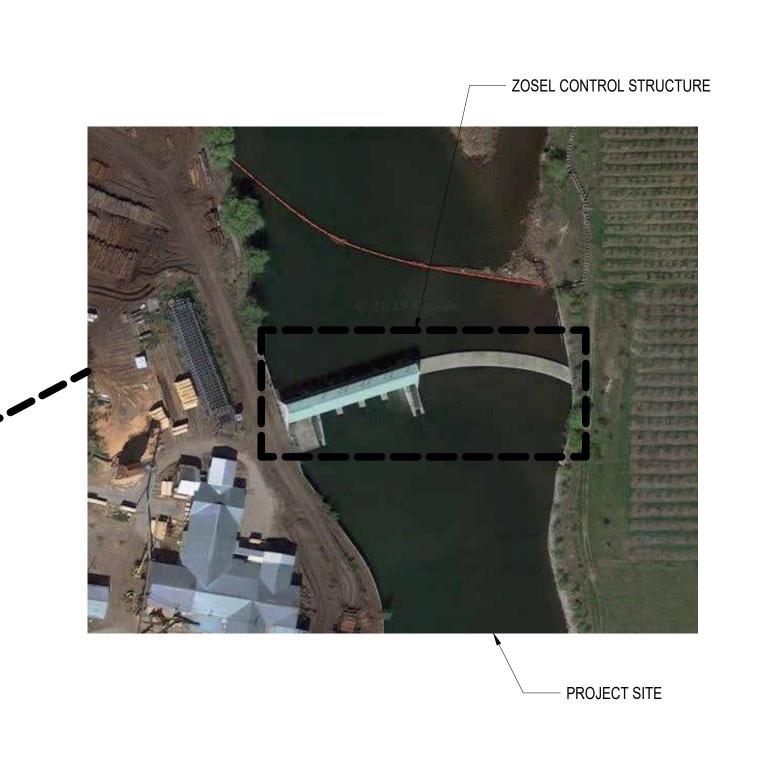
# DESIGN DEVELOPMENT 03/08/2024









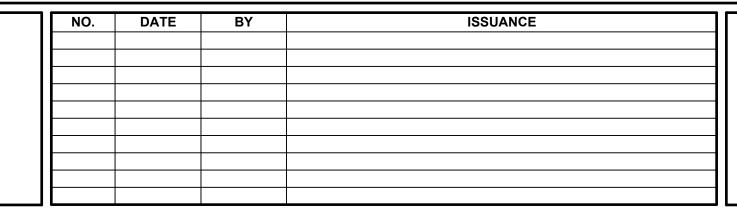
VICINITY MAP

NTS

LOCATION MAP

NTS

1601 Fifth Avenue, Suite 1300 Seattle, WA 98101 206.382.0600







**ZOSEL DAM** OROVILLE, WA

**COVER SHEET** 

DRAWN:	TAD	PROJECT NO.:	2300101
DESIGN:	HNS	SCALE:	
CHECKED:	DWH	DATE:	03/08/2024
DRAWING NO.		G1.0	0
SHEET NO.	1	OF	33

#### **GENERAL NOTES**

- 1. UNLESS SPECIFIED OTHERWISE, ALL MATERIAL AND EQUIPMENT INCORPORATED INTO THIS PROJECT SHALL BE NEW. CHANGES TO MATERIALS AND STRUCTURES SHOWN ON THE DRAWINGS SHALL BE SUBMITTED BY THE SUPPLIER FOR THE EXPLICIT WRITTEN APPROVAL BY THE ENGINEER. ALL MATERIALS SHALL CONFORM TO GOOD WORKMANSHIP, ACCEPTABLE INDUSTRY STANDARDS AND MANUFACTURER RECOMMNEDATIONS.
- 2. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.
- 3. DRAWING SCALES ARE PROVIDED AS CONVENIENCE ONLY. THESE SCALES MAY NOT BE ACCURATE AND SHOULD NOT BE USED TO SET CRITICAL DIMENSIONS. CONTRACTOR SHALL SEEK CLARIFICAITON OF ANY CRITICAL DIMENSIONS NOT FOUND ON THE DRAWING.
- 4. DIMENSIONS AND ELEVATIONS OF EXISTING CONDITIONS ARE SHOWN FOR REFERENCE. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PERTAINING TO THE INSTALLATION OF THE COMPONENTS SHOWN ON THESE DRAWINGS.
- 5. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES IN DIMENSIONS AND ELEVATIONS SHOWN ON THE PLANS PRIOR TO THE COMMENCEMENT OF WORK.
- 6. BREAK ALL SHARP CORNERS AND EDGES ON FABRICATED STRUCTURES.
- 7. ALL MACHINED SURFACES TO BE 125 MICROINCHES MAX ROUGHNESS UNLESS NOTED OTHERWISE.
- 8. DIMENSIONS AND TOELRANCES SHOWN SHALL BE INTERPRETED PER ASME Y14.5 OR AISC, AS APPLICABLE.
- 9. ALL STEEL STRUCTURES SHALL BE FABRICATED IN ACCORDANCE WITH THE APPROVED SHOP DRAWINGS AND REFERENCE STANDARDS.
- 10. TOLERANCES LISTED ON THIS SHEET APPLY TO ALL FEATURES UNLESS OTHERWISE NOTED ON THE
- 11.ADJUST SHOP DIMENSIONING AND TOELRANCES TO ACHIEVE LAYOUT DIMENSIONS INDICATED AND AVOID UNWORKABLE TOELRANCE STACKUPS.
- 12.UNLESS NOTED OTHERWISE, DIMENSIONAL TOLERANCES ARE AS FOLLOWS:

FRACTIONAL OR F-IN MORE THAN 60"	± 1/8"
FRACTIONAL OR FT-IN LESS THAN 60"	± 1/16"
DECIMAL INCHES "X.X"	± 0.06"
DECIMAL INCHES "X.XX"	± 0.03"
DECIMAL INCHES "X.XXX"	± 0.010"
DECIMAL mm	± 1.5 mm

- 13.UNLESS NOTED OTHERWISE, DIMENSIONS BETWEEN HOLES AND BETWEEN MACHINED SURFFACES IN A SINGLE MACHINED PART HAVE A TOLERANCE OF ± 0.010". FLATNESS OF MACHINED SURFACES IS ± 0.020". CLEARANCE IN HOLES FOR 3/8" BOLTS OR LARGER ARE 1/16" LARGER IN DIAMETER THAN THE BOLT.
- CLEARANCE IN HOLES FOR 1/4" BOLTS OR SMALLER ARE 1/32" LARGER IN DIAMETER THAN THE BOLT.
- 14.UNLESS NOTED OTHERWISE, TOLERANCE ON ANGULAR DIMENSIONS IS ± 0.5 DEGREES. FEATURES OF PARTS AND ASSEMBLIES THAT ARE IMPLIED AS PARALLEL OR PERPENDICUALR MUST BE PARALLEL OR PERPENDICULAR WITHIN THIS TOLERANCE.

#### **FASTENERS**

- 1. FASTENER SIZE AND MATERIAL SHALL BE AS SPECIFIED ON THE DRAWINGS.
- 2. APPLY LOCTITE 243 LIQUID OR 249 QUICKTAPE THREAD-LOCKER, OR APPROVED EQUIVALENT, TO ALL THREADED FASTENERS, UNLESS NOTED OTHERWISE. THREAD-LOCKER NOT REQUIRED ON ALIGNMENT STUDS AND NUTS OR OTHER FASTENERS THAT ARE EMBEDDED IN CONCRETE.
- 3. APPLY LOCTITE LB 8009 HEAVY DUTY ANTI-SEIZE OR APPROVED EUIVALENT, TO STAINLESS STEEL FASTENERS USED TO ATTACH SEAL CLAMP BARS.
- 4. ASSEMBLY TORQUE FOR THE SEAL CLAMP BAR FASTENERS SHALL BE PER THE SEAL MANUFACTURER 'S INSTRUCTIONS.

# WELDING

- 1. ALL WELDERS SHALL BE QUALIFIED IN ACCORDANCE WITH AWS D1.1 AND/OR AWS D1.6 FOR THE WELD PROCEDURES AND POSITIONS TO BE PERFORMED.
- 2. ALL WELDS SHALL BE PERFORMED WITH PROCEDURES PRE-QUALIFIED OR QUALIFIED IN ACCORDANCE WITH AWS D1.1 OR AWS D1.6. THE FILLER WELD SHALL BE SPECIFIED IN THE WPS.
- 3. THE WELDS SHOWN ARE FOR THE FINAL CONNECTIONS. FIELD WELD SYMBOLS ARE SHOWN WHERE FIELD WELDS ARE REQUIRED BY THE DESIGN.
- 4. WELDING ELECTRODES SHALL BE 70 KSI STRENGTH AND SHALL BE LOW HYDROGEN ELECTRODES.
- 5. FILL FLUSH ALL FLARE BEVEL GROOVE WELDS OR AS REQUIRED.
- 6. ALL WELDS SHALL BE VISUALLY INSPECTED.
- 7. COMPLETE PENETRATION BUTT WELDLS SHALL BE TESTED ULTRASONICALLY OR BY USING ANOTHER METHOD APPROVED BY THE ENGINEER.
- 8. AT LEAST 10% OF EACH TYPE AND SIZE OF FILLET WELDS AND PJP GROOVE WELD SHALL BE TESTED BY MAGNETIC PARTICLE TESTING (MT) OR LIQUID PENETRANT TESTING (PT) AS APPROPRIATE.

#### **MATERIALS**

- 1. CARBON STEEL PLATES SHALL CONFORM TO ASTM A572 GRADE 50 OR ASTM A709 GRADE 50 UNLESS NOTED OTHERWISE.
- CARBON STEEL SHAPES SHALL CONFORM TO ASTM A36 UNLESS NOTED OTHERWISE.
- 3. STAINLESS STEEL SHALL CONFORM TO ASTM A240 TYPE 304L UNLESS NOTED OTHERWISE.
- 4. PURCHASED STEEL MATERIALS SHALL MEEET THE REQUIREMENTS OF ASTM A6.

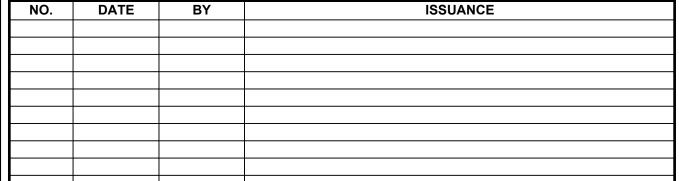
#### **COATINGS**

- 1. MASK ALL TAPPED HOLES BEFORE PAINTING.
- 2. APPLY PRIMER COAT ONLY TO MACHINED BORES IN GATE STRUCTURE FOR WHEEL AXLES. MASK BORES AFTER PRIMER COAT.

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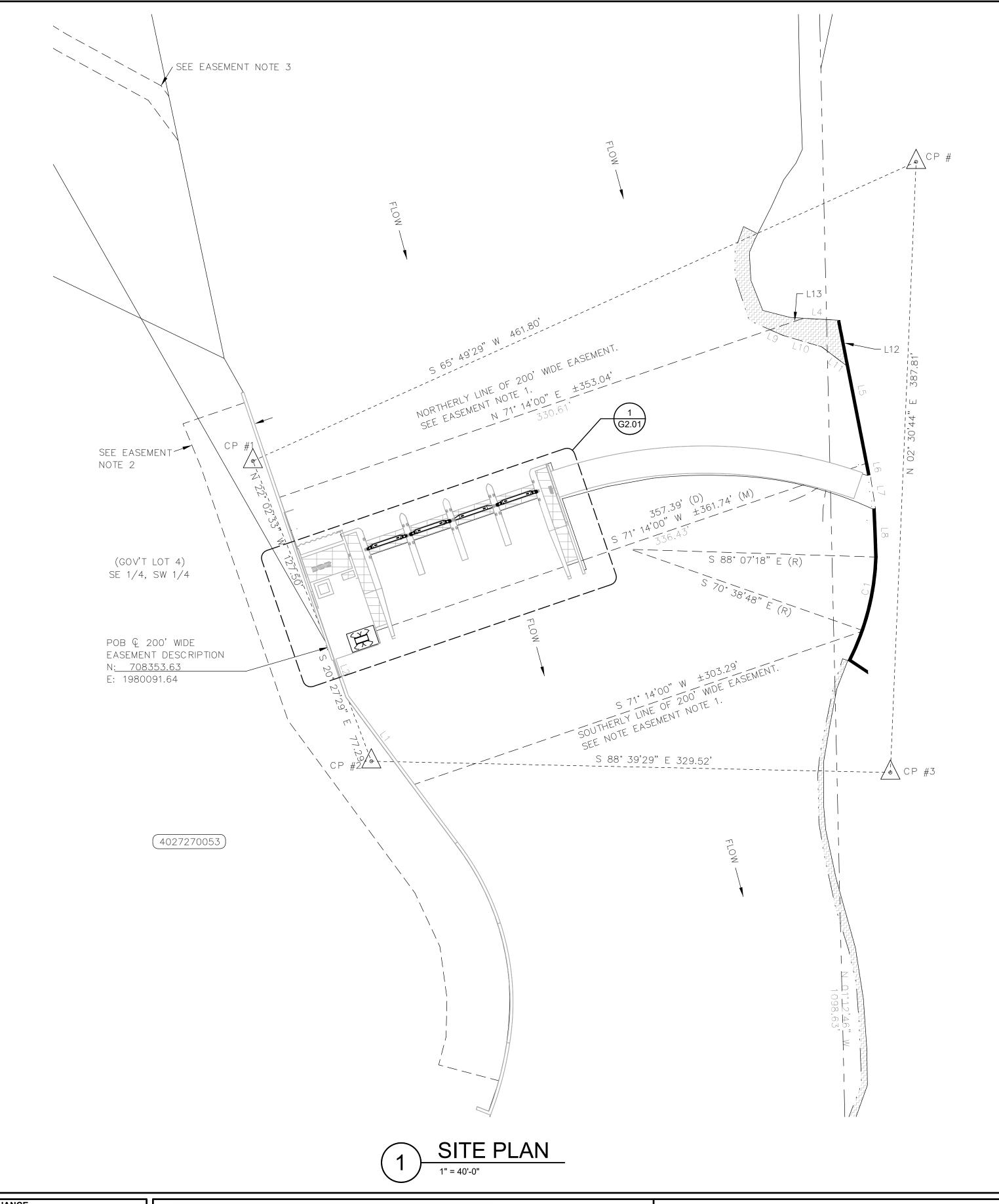


**ZOSEL DAM OROVILLE, WA** 

DRAWN:	TAD	PROJECT NO.:	2300101
DESIGN:	HNS	SCALE:	1/16" = 1'-0"
CHECKED:	DWH	DATE:	03/08/2024
DRAWING NO.		G1.0	1
SHEET NO		OF	22

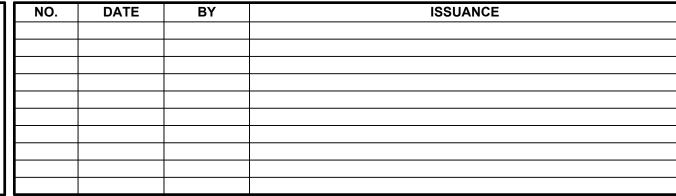
EASEMENT DATA PER DOCUMENT "RECORD OF SURVEY FOR AQUATIC LAND EASEMENT NO. 51-A47628" (KPFF 2022).

- 1. 200 FOOT WIDE EASEMENT FOR RIGHT-OF-WAY FOR THE CONSTRUCTION, OPERATION, USE AND MAINTENANCE OF A WATER CONTROL STRUCTURE AS DESCRIBED IN DOCUMENT ENTITLED "STATE OF WASHINGTON DEPARTMENT OF NATURAL RESOURCES, BRIAN J. BOYLE, COMMISSIONER OF PUBLIC LANDS, OLYMPIA, WASHINGTON 98504". DOCUMENT PROVIDED BY CLIENT AND APPEARS TO BE UNRECORDED.
- 2. 40 FEET WIDE x 450 FEET LONG PERPETUAL EASEMENT FOR SHEET PILING AND DAM CONSTRUCTION. AS SHOWN ON EXHIBIT "A" ENTITLED "OSOYOOS LAKE CONTROL STRUCTURE, ZOSEL EASEMENTS" CONTAINED IN DOCUMENT "EASEMENTS AND PERMITS FOR CONSTRUCTION AND MAINTENANCE OF NEW ZOSEL DAM" (R5). DOCUMENT PROVIDED BY CLIENT AND APPEARS TO BE UNRECORDED. APPX LOCATION SHOWN HEREON.
- 3. 12 FOOT PERPETUAL ACCESS EASEMENT AS SHOWN ON EXHIBIT "A" ENTITLED "OSOYOOS LAKE CONTROL STRUCTURE, ZOSEL EASEMENTS" CONTAINED IN DOCUMENT "EASEMENTS AND PERMITS FOR CONSTRUCTION AND MAINTENANCE OF NEW ZOSEL DAM" (R5). DOCUMENT PROVIDED BY CLIENT AND APPEARS TO BE UNRECORDED. NOTÈ: ÉASEMENT IS NOT DESCRIBED IN SAID DOCUMENT AND IS ONLY SHOWN GRAPHICALLY ON SAID EXHIBIT "A". APPX LOCATION SHOWN HERON. SEE ALSO SHEET 2.





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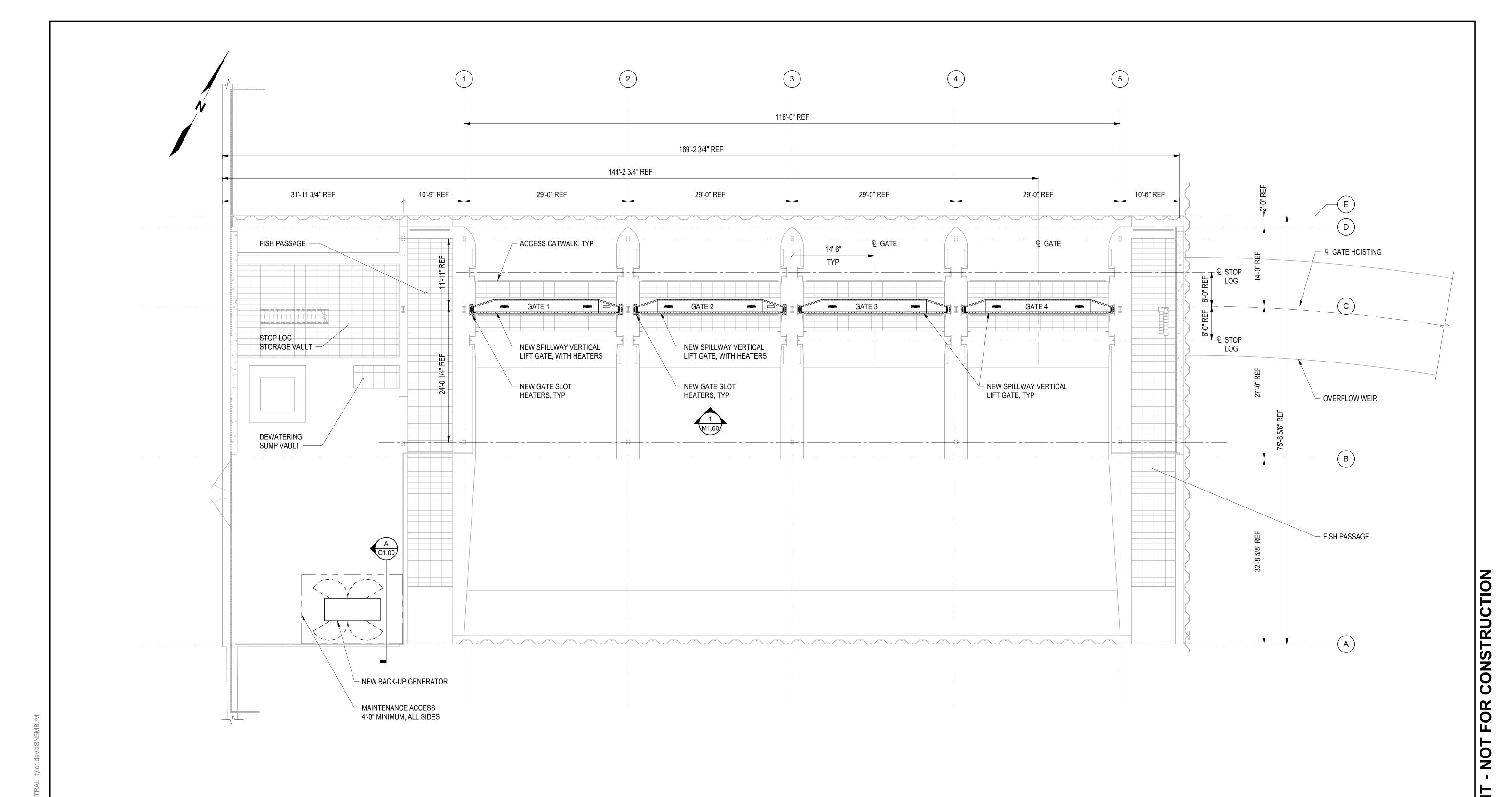




**ZOSEL DAM** OROVILLE, WA

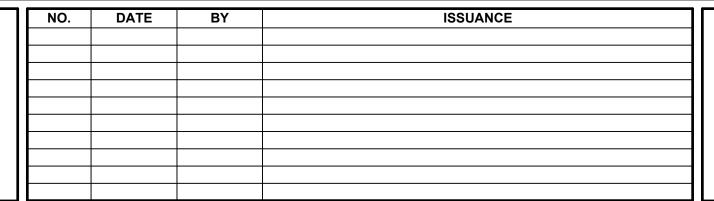
SITE PLAN

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	DESIGN:	HNS	SCALE:	1" = 40'-0"
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	DRAWING NO.		G2.0	0
	SHEET NO.	3	OF	33













**ZOSEL DAM** OROVILLE, WA

CONTROL STRUCTURE PLAN

	DRAWN:	TAD	PROJECT NO.:	2300101
	DESIGN:	HNS	SCALE:	1/8" = 1'-0"
$\dashv$	CHECKED:	DWH	DATE:	03/08/2024
	DRAWING NO.		G2.0	1
	SHEET NO.		OF	33

- 1. CONTRACTOR SHALL PROTECT ALL ITEMS NOT IDENTIFIED TO BE DEMOLISHED.
- 2. CONTROL STRUCTURE FACILITY SHALL REMAIN OPERATIONAL THROUGHOUT CONSTRUCTION. CONTRACTOR MUST MAINTAIN THE MINIMAL NUMBER OF GATES IN SERVICE AT A GIVEN TIME OF THE YEAR IN ORDER TO MAINTAIN OPERATIONAL STATUS OF THE DAM. OPERATIONAL GATE REQUIREMENTS ARE STATED IN PROJECT BASIS OF DESIGN
- 3. DEMOLITION OF EXISTING EQUIPMENT THAT AFFECTS CONTROL STRUCTURE HOIST DECK ENCLOSURES, INCLUDING BUT NOT LIMITED TO FLOOR AND ROOFING, SHALL BE REPAIRED.
- DEMO EXISTING GATE HEATERS, GATE SLOT HEATERS, AND GATE HEATER CONTROL. EXISTING HEATING EQUIPMENT LOCATED ONLY AT GATE BAY #1.

# **LEGEND**:

EXISTING ELEMENTS

EX DIESEL GENERATOR

ELEMENTS TO BE DEMOLISHED

₽ GATE

1 DEMOLITION PLAN AT EL 929.0'

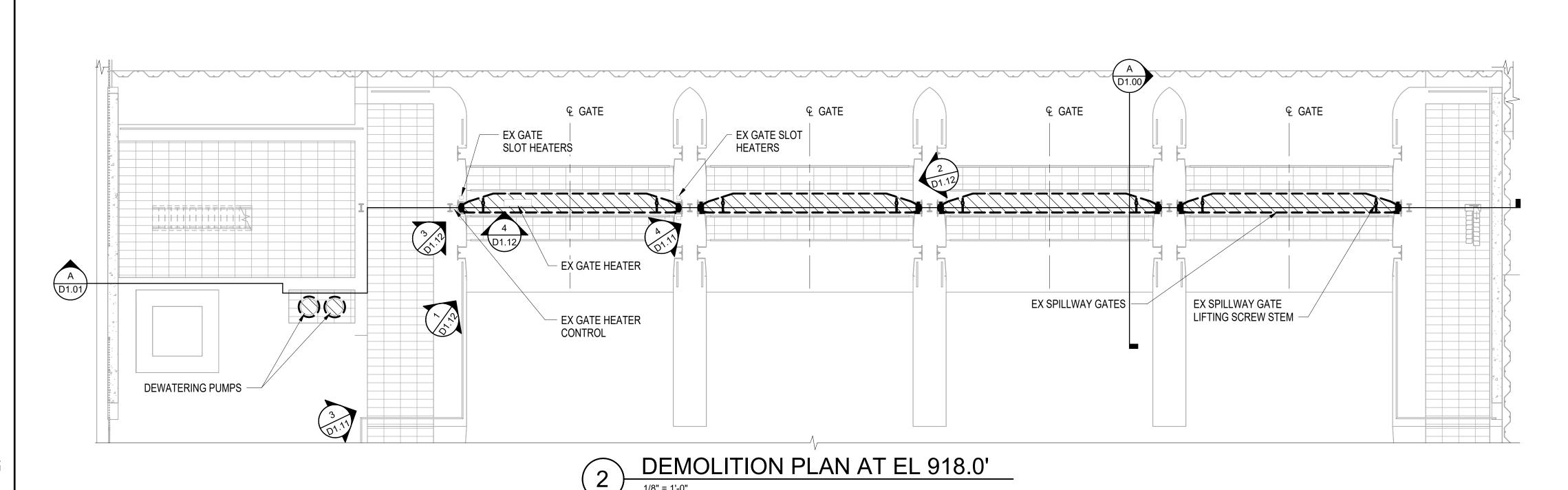
**GATE POSITION** 

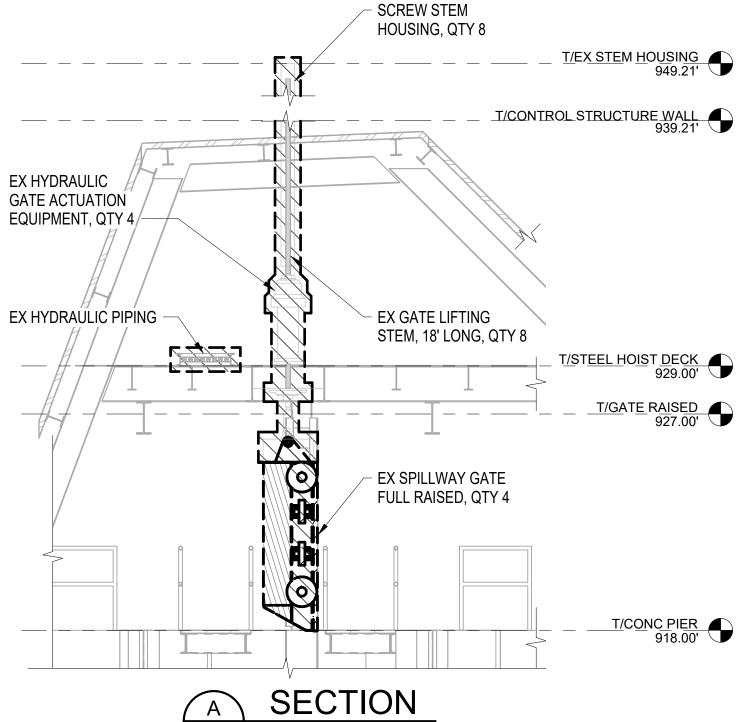
INDICATOR -

HYDRAULIC

₽ GATE

**PIPING** 





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HYDRAULIC

**POWER UNIT** 

ELECTRICAL

CABINET

A D1.01 - GATE OPERATOR

CONTROL STATION

HYDRAULIC GATE

AND RECORDERS

**ACTUATION EQUIPMENT** -

GATE OPERATING GAUGES

NO. DATE BY ISSUANCE





ዒ GATE

EX DIESEL FUEL STORAGE TANK -

₽ STEM

€ STEM 10'-6"

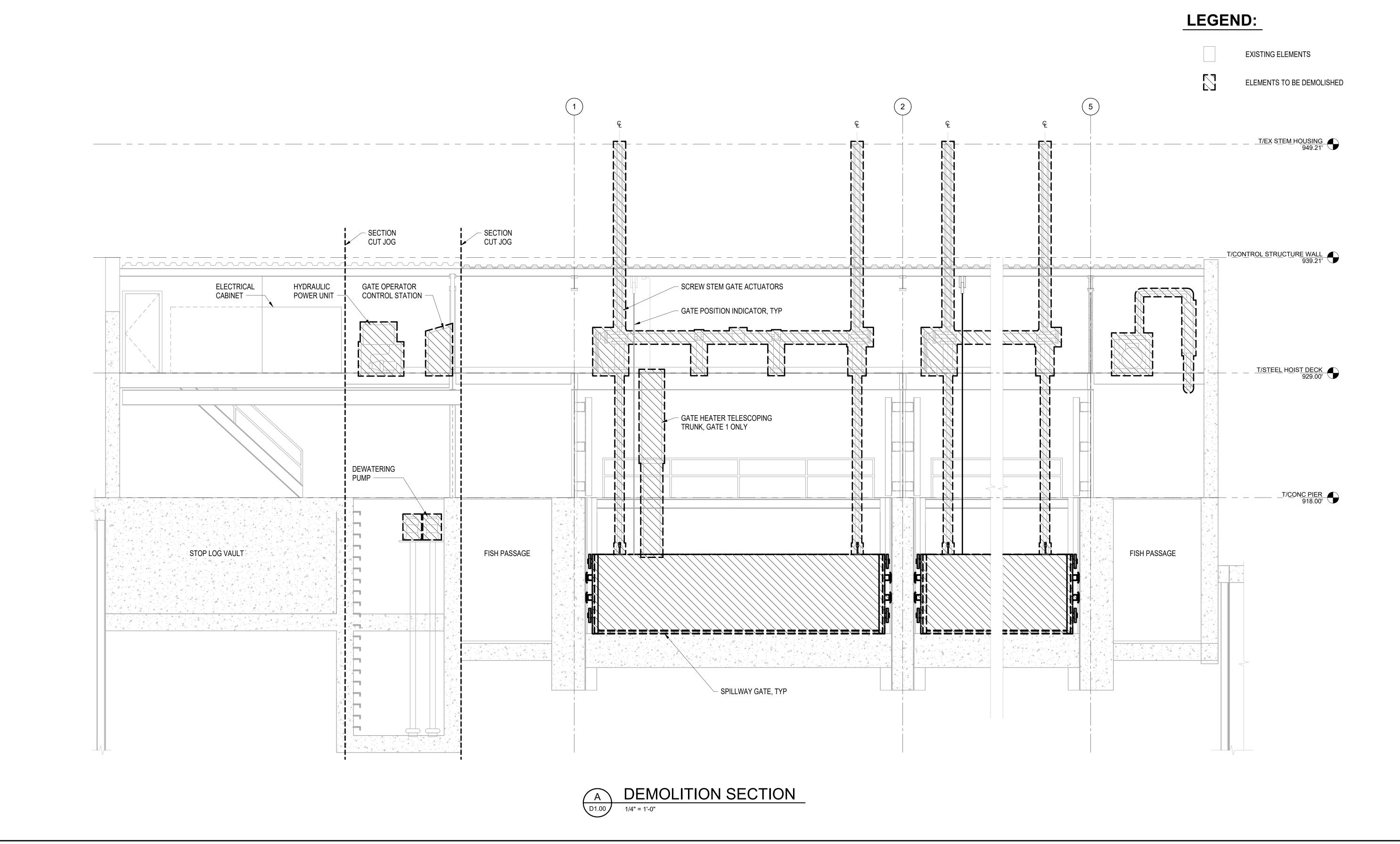
₽ GATE

- GATE LIFTING STEM

ZOSEL DAM OROVILLE, WA

**DEMOLITION PLAN** 

1	DRAWN:	TAD	PROJECT NO.:	2300101
	DESIGN:	HNS	SCALE:	As indicated
1	CHECKED:	DWH	DATE:	03/08/2024
	DRAWING NO.		D1.0	0
	SHEET NO.	F	OF	33



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NO. DATE BY ISSUANCE





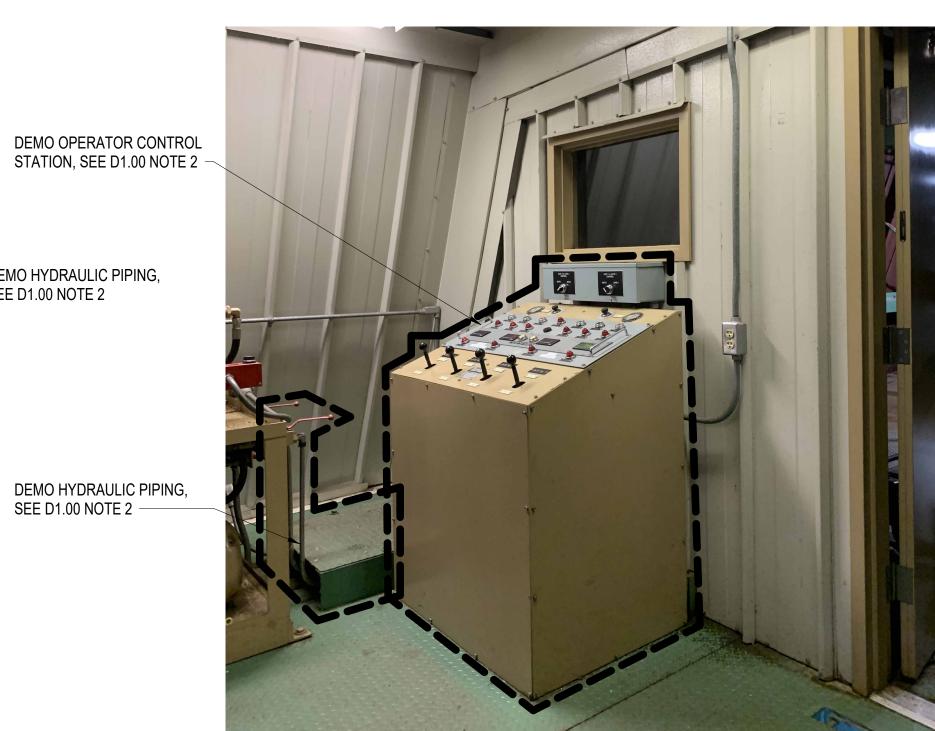
**ZOSEL DAM** OROVILLE, WA

**DEMOLITION DETAILS** 

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┪	CHECKED:	DWH	DATE:	03/08/2024
	DRAWING NO.		D1.0	1
	SHEET NO.	6	OF	33

C:\Users\tdavis\Documents\2300101 Zosel Dam





DEMO HYDRAULIC PIPING,

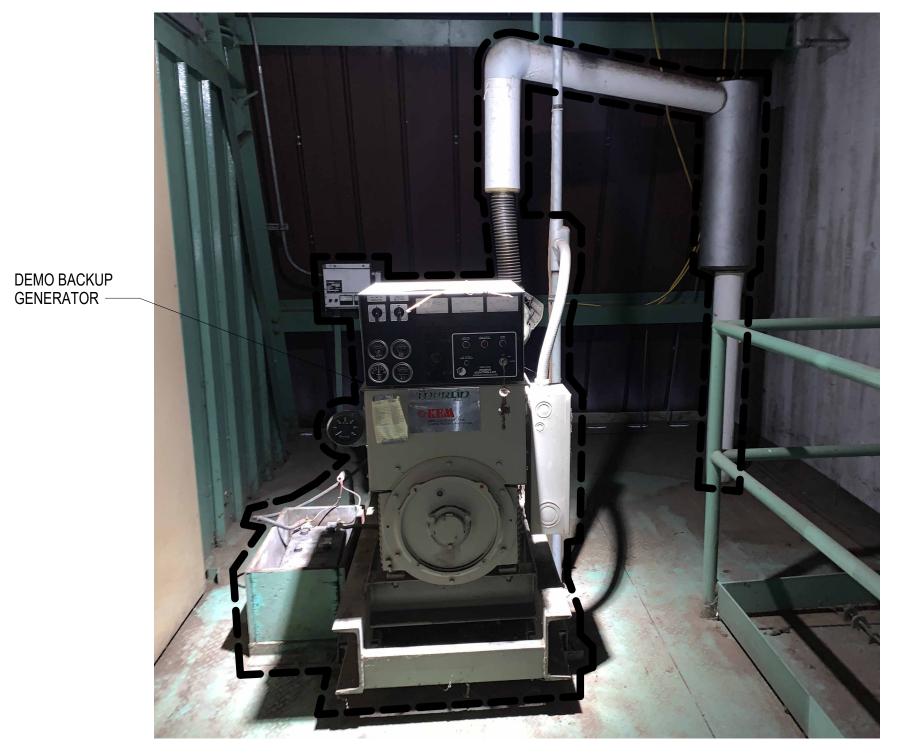
SEE D1.00 NOTE 2

GATE OPERATOR DEMOLITION

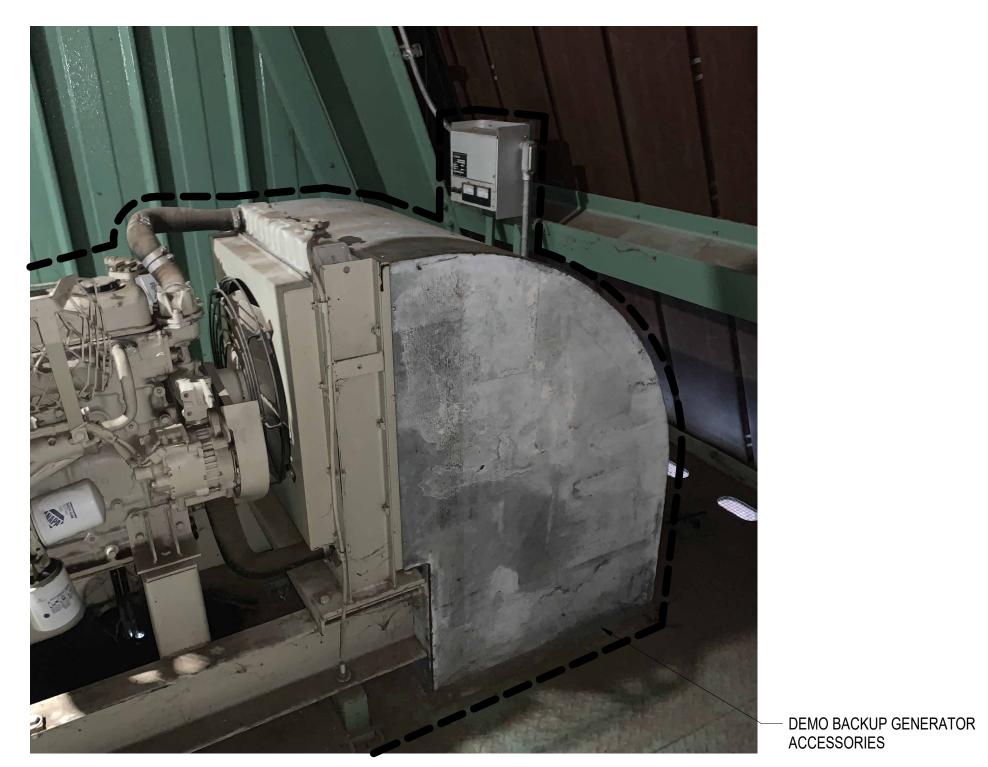


GATE GAUGES DEMOLITION

- DEMO BACKUP GENERATOR DIESEL FUEL TANK



BACKUP GENERATOR DEMOLITION

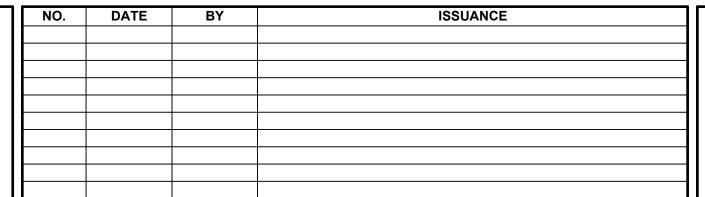


BACKUP GENERATOR DEMOLITION



BACKUP GENERATOR DEMOLITION







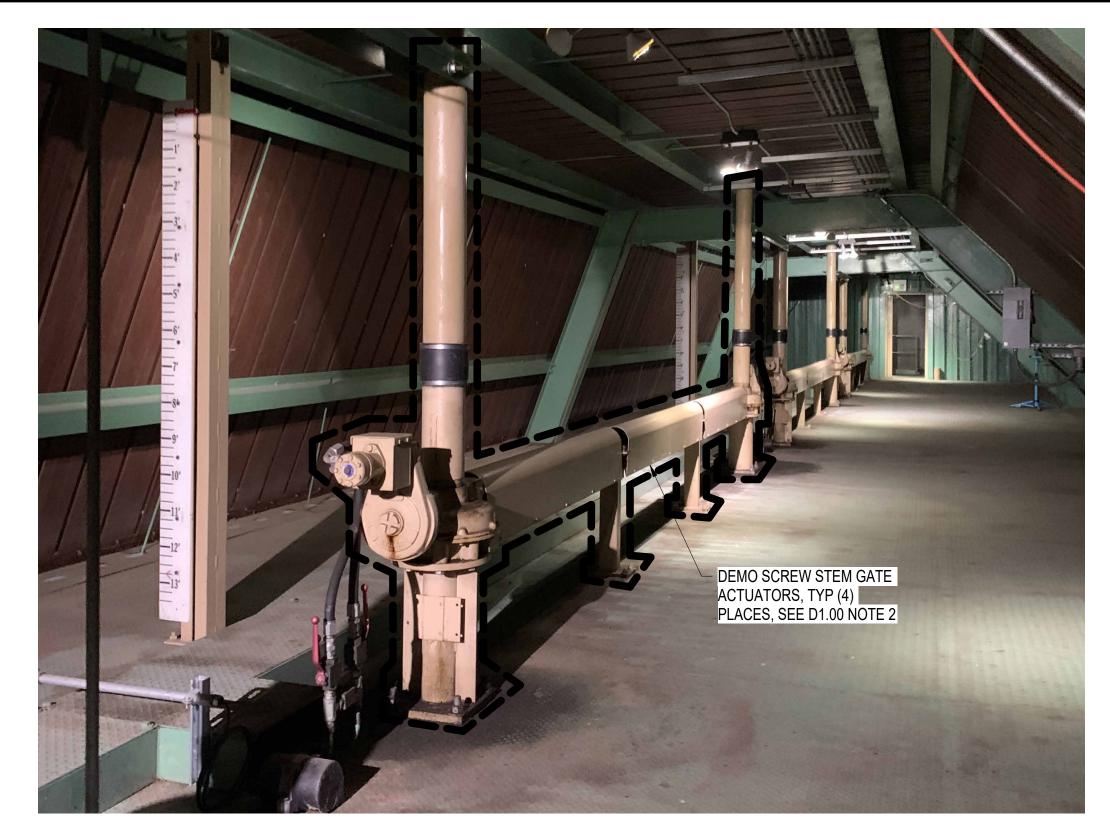


**ZOSEL DAM** OROVILLE, WA

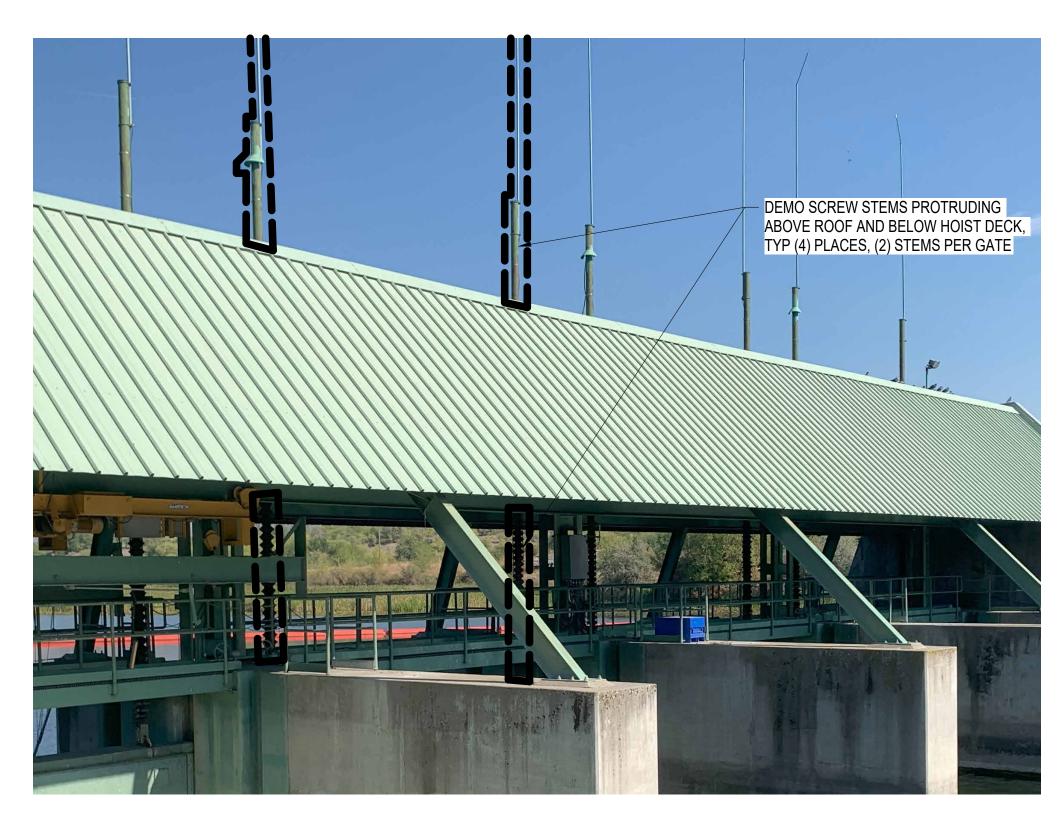
**DEMOLITION DETAILS** 

EMOLIT	ΓΙΟ	N_		EVELOPMENT
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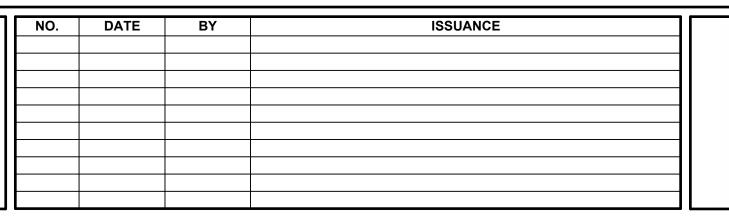
DEMO GATE OPERATING
 GAUGES AND RECORDERS



GATE OPERATING EQUIPMENT DEMOLITION



GATE OPERATING EQUIPMENT DEMOLITION







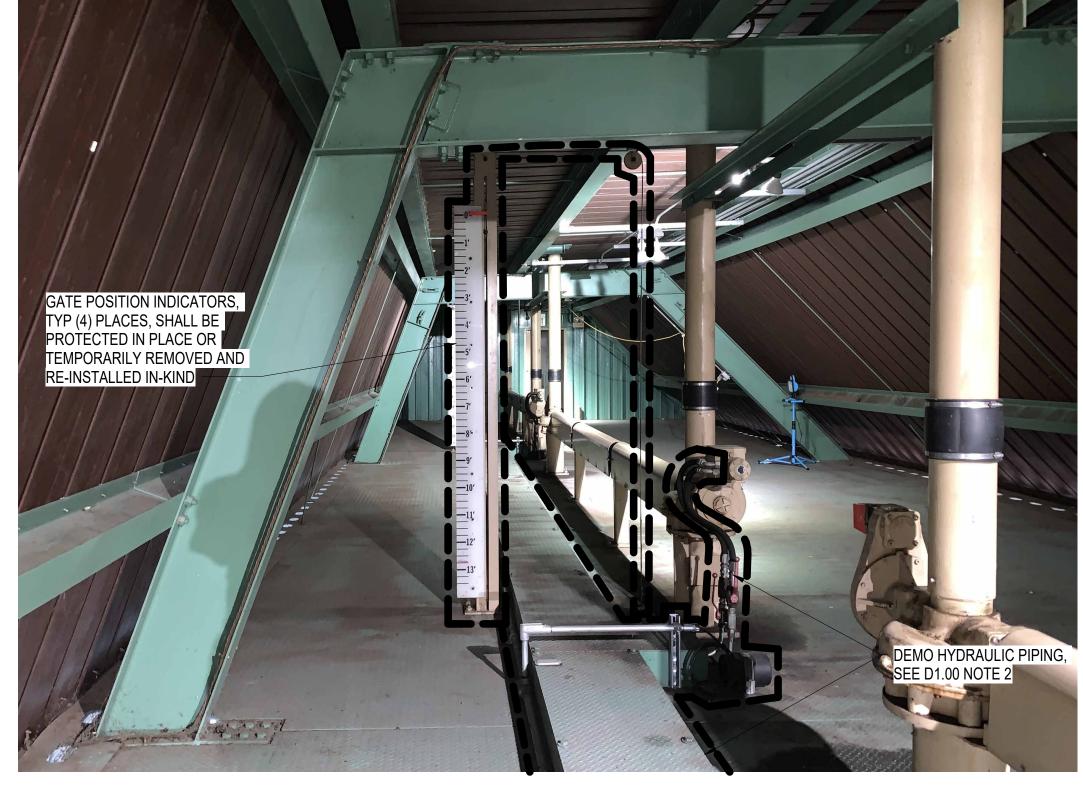


GATE OPERATING EQUIPMENT DEMOLITION

**DEMOLITION DETAILS** 

OROVILLE, WA

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Ш	DESIGN:	HNS	SCALE:	As indicated
	DRAWN:	TAD	PROJECT NO.:	2300101



GATE OPERATING EQUIPMENT DEMOLITION



- DEMO HOIST DECK SCREW STEM SUPPORT WF BEAMS

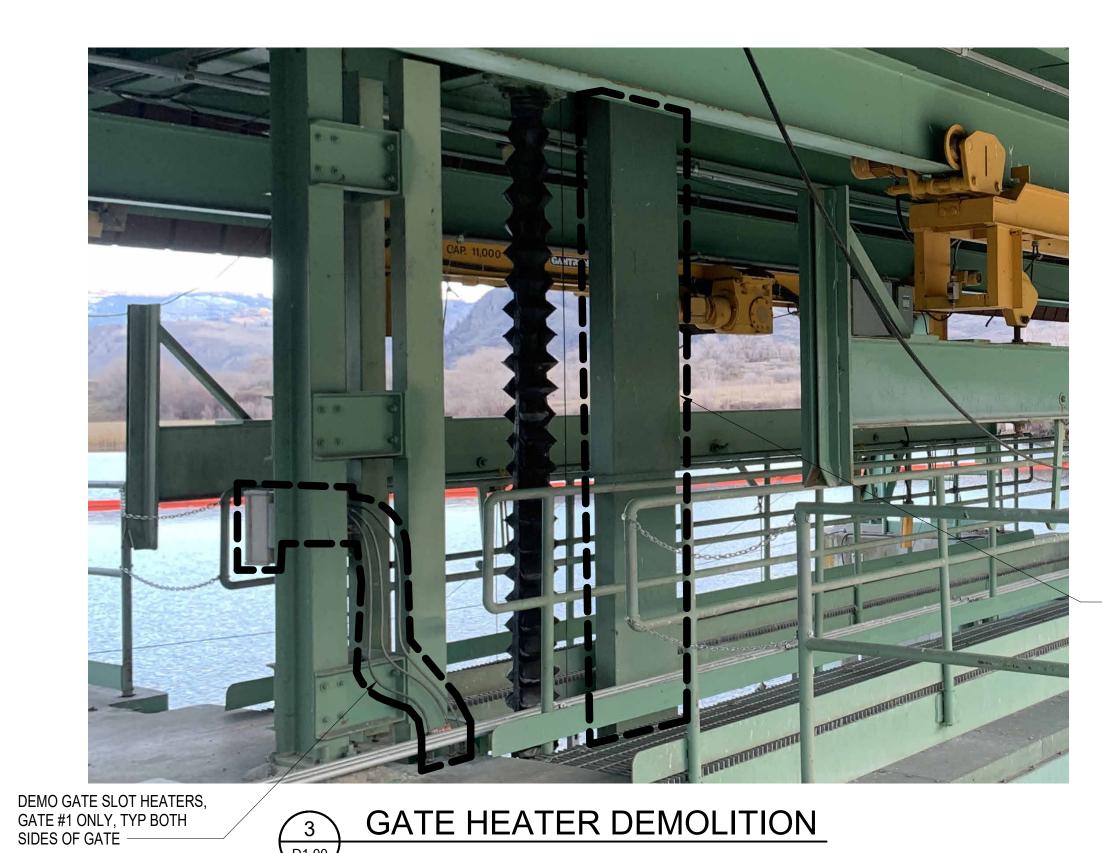
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206.382.0600



GATE DEMOLITION

DEMO SPILLWAY GATES, SEE D1.00 NOTE 2



GATE HEATER DEMOLITION

DEMO GATE HEATERS AND TELESCOPING TRUNK, GATE #1 ONLY

TRUNK, GATE #1 ONLY

DEMO GATE HEATERS AND TELESCOPING

DEMO SPILLWAY GATES, SEE D1.00 NOTE 2

GATE POSITION INDICATOR CABLE, TO BE PROTECTED AND RE-INSTALLED IN-KIND ON NEW SPILLWAY GATES ———

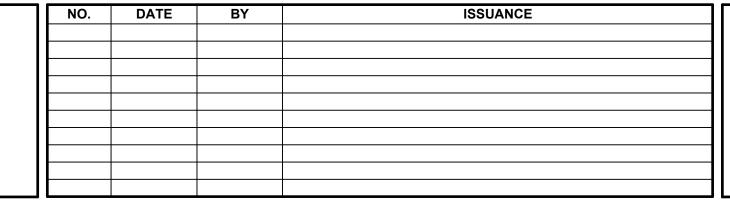


GATE DEMOLITION



GATE HEATER DEMOLITION

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**ZOSEL DAM** OROVILLE, WA

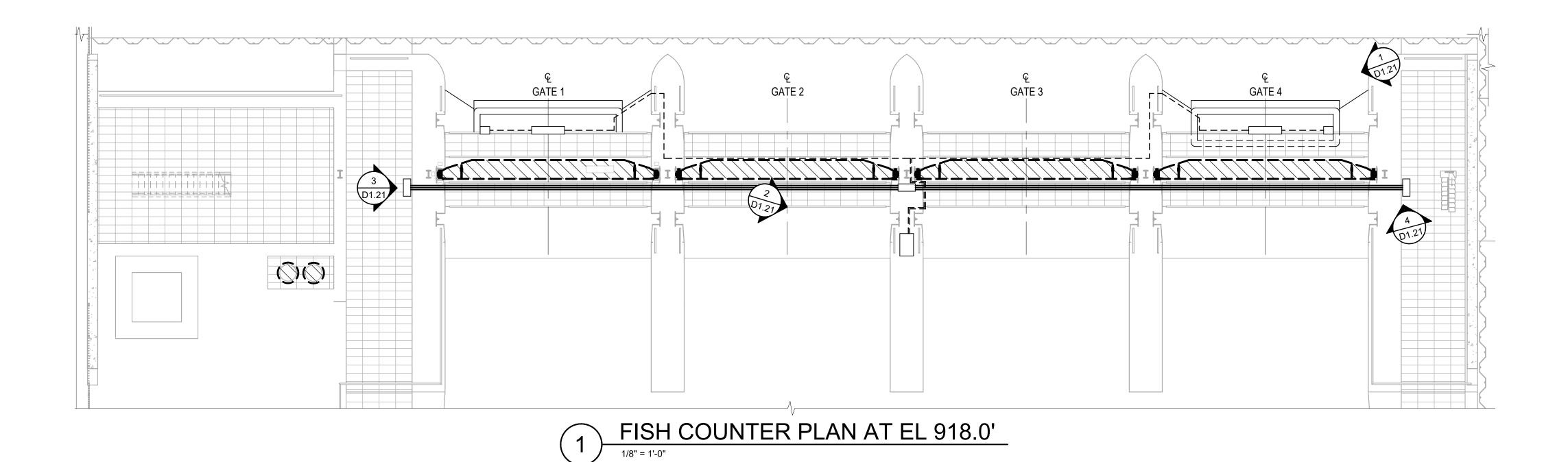
**DEMOLITION DETAILS** 

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DESIGN:	HNS	SCALE:	1" = 80'-0"
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# **LEGEND**:

EXISTING ELEMENTS

ELEMENTS TO BE DEMOLISHED



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NO. DATE BY ISSUANCE





**ZOSEL DAM** OROVILLE, WA

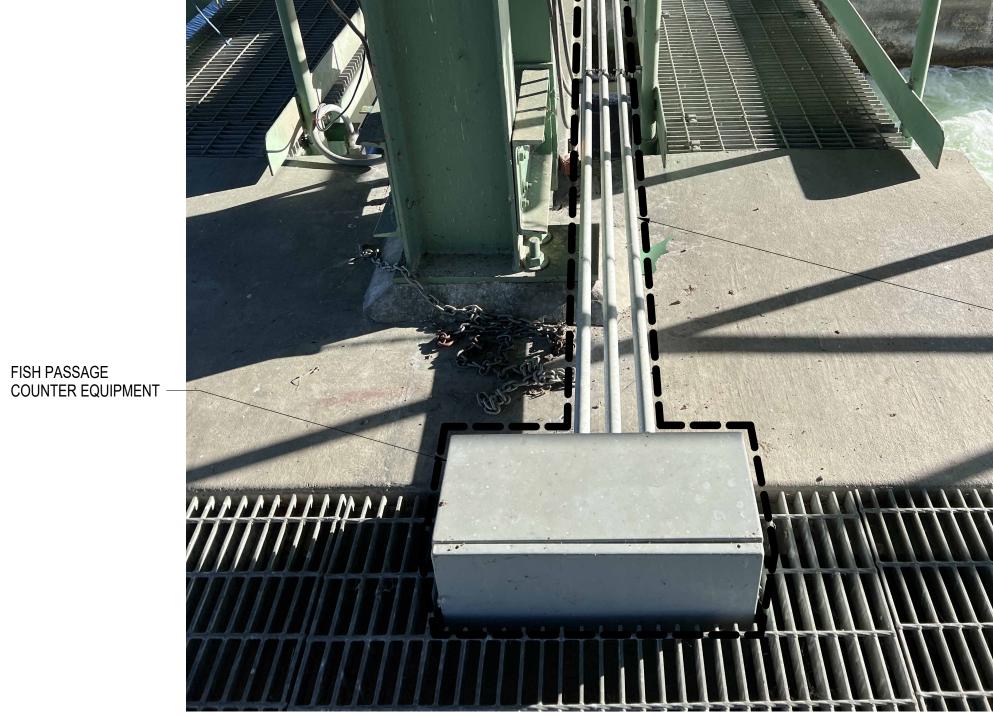
FISH COUNTER EQUIPMENT PLAN

1	DRAWN:	TAD	PROJECT NO.:	2300101
ı	DESIGN:	HNS	SCALE:	As indicated
┪	CHECKED:	DWH	DATE:	03/08/2024
	DRAWING NO.		D1.2	0
ı	SHEET NO.	1	<b>0</b> OF	33

FISH PASSAGE FLOATING COUNTER ANTENNA, TYP AT FISH COUNTER EQUIPMENT PROTECTION



FISH PASSAGE COUNTER ELECTRICAL CONDUIT



FISH COUNTER EQUIPMENT PROTECTION



FISH PASSAGE COUNTER EQUIPMENT

FISH COUNTER EQUIPMENT PROTECTION



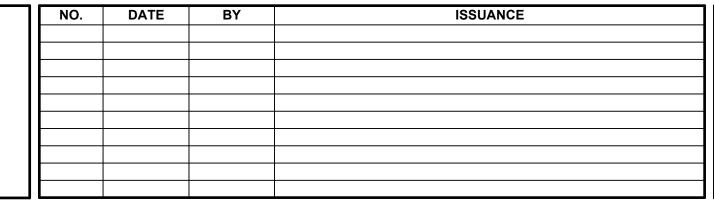
FISH PASSAGE COUNTER ELECTRICAL CONDUIT

FISH PASSAGE COUNTER ELECTRICAL CABINET —

FISH COUNTER EQUIPMENT PROTECTION



GATES 1 AND 4







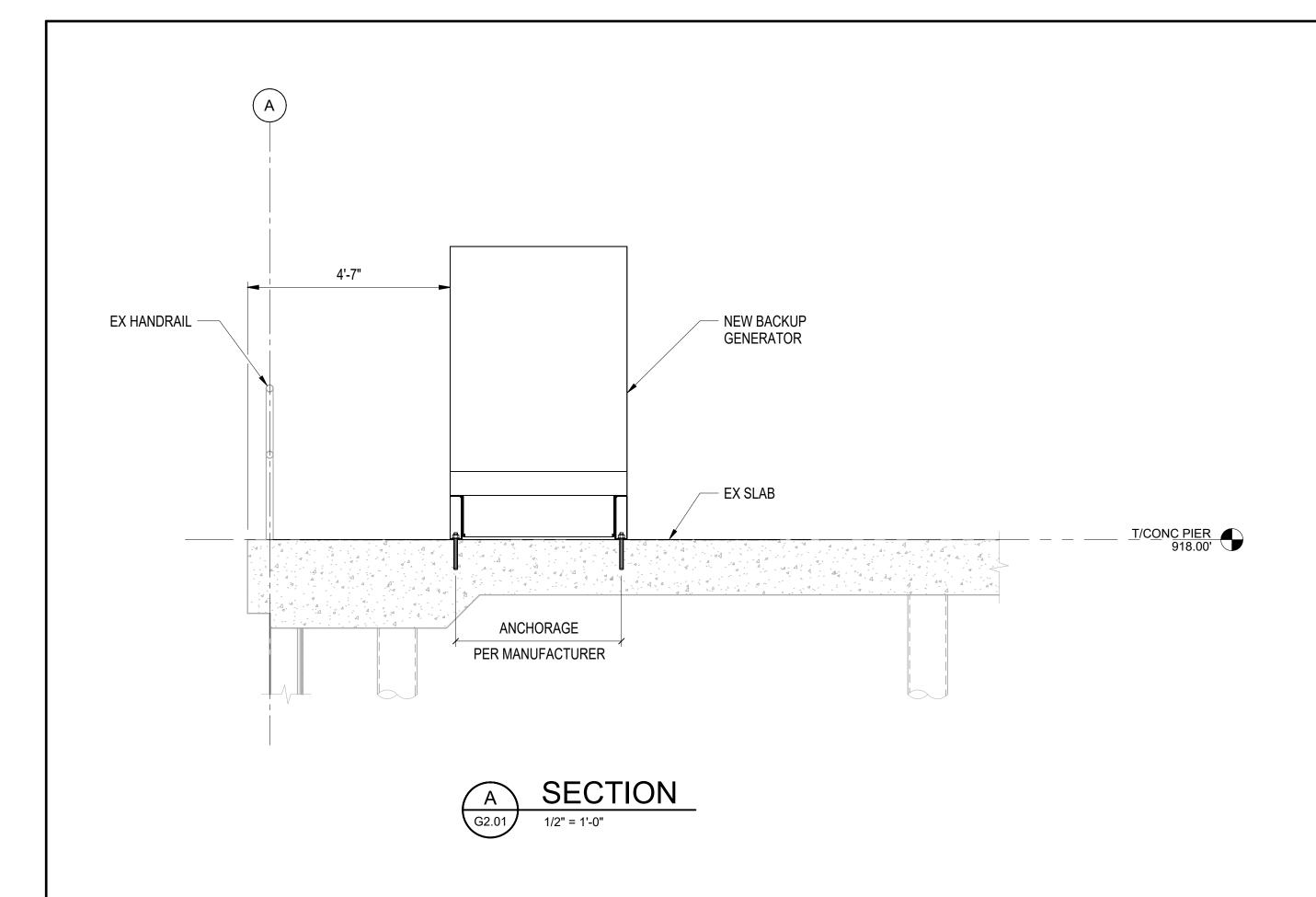
**ZOSEL DAM** OROVILLE, WA

FISH COUNTER EQUIPMENT DETAILS

SHEET NO.	1	<b>1</b> OF	33
DRAWING NO.		D1.2	1
CHECKED:	DWH	DATE:	03/08/2024
DESIGN:	HNS	SCALE:	1" = 80'-0"
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NO. DATE BY ISSUANCE

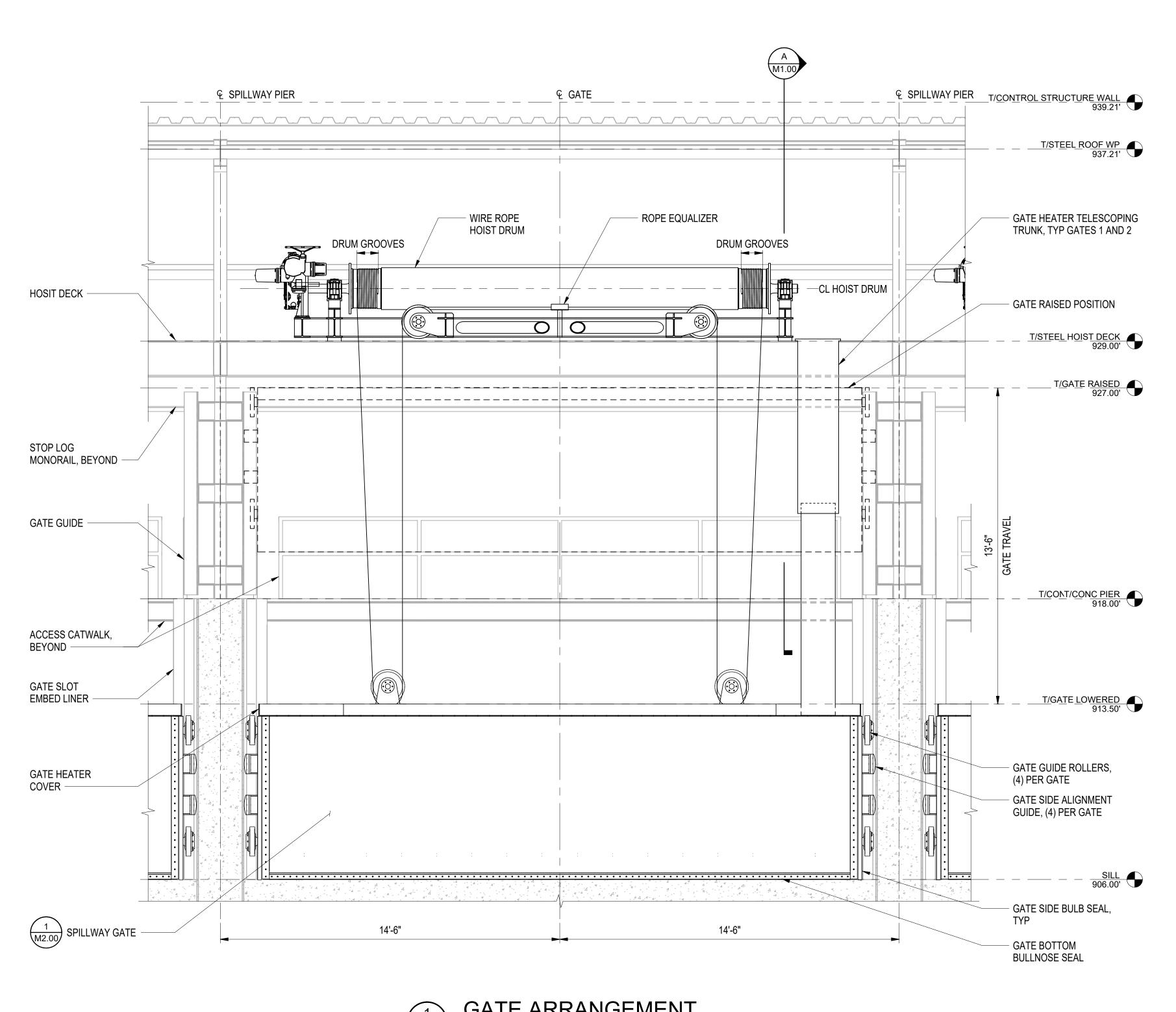


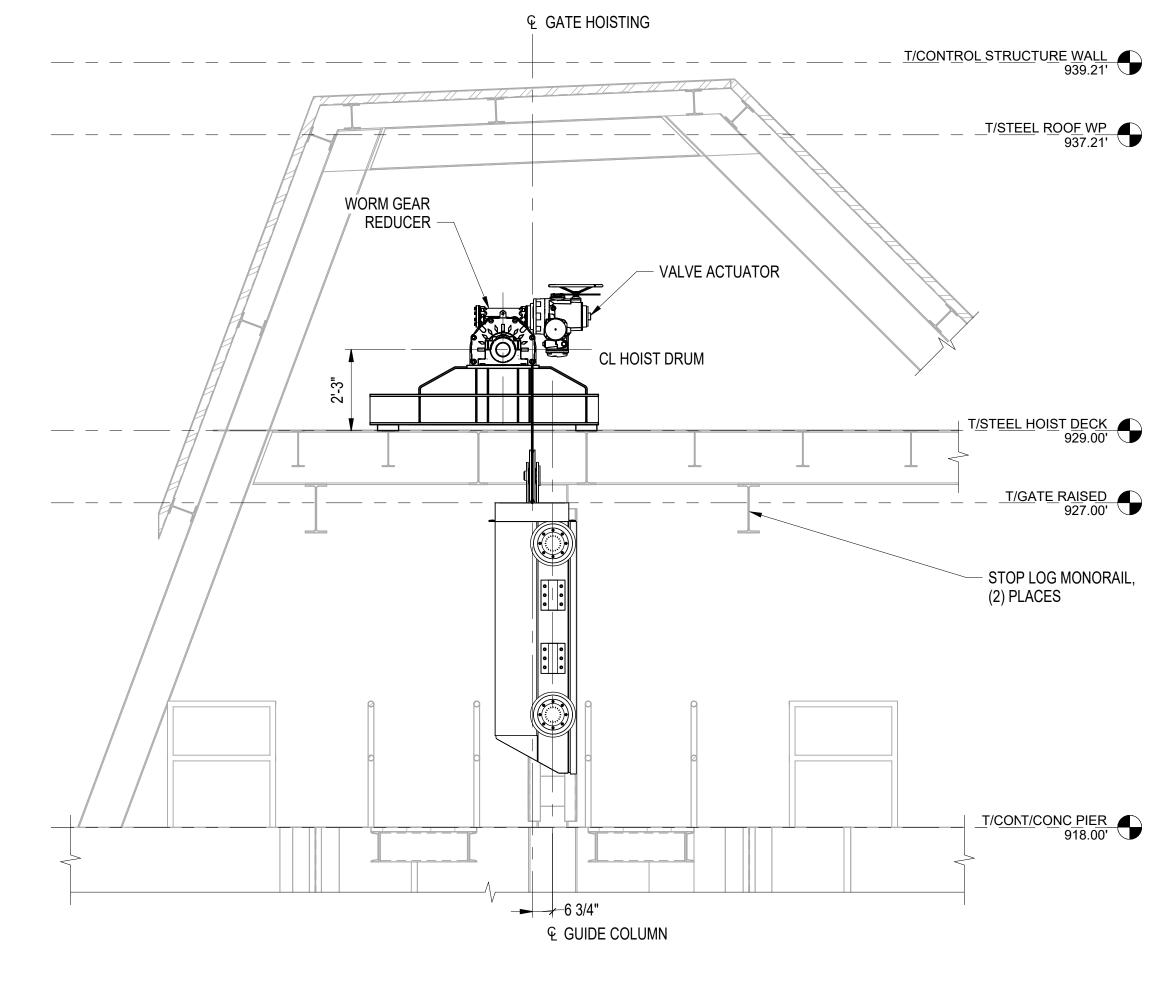


ZOSEL DAM OROVILLE, WA

BACKUP GENERATOR DETAILS

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	DESIGN:	HNS	SCALE:	1/2" = 1'-0"
	DRAWN:	TAD	PROJECT NO.:	2300101





GATE ARRANGEMENT SECTION

3/8" = 1'-0"
GATE RAISED





NO. DATE BY ISSUANCE

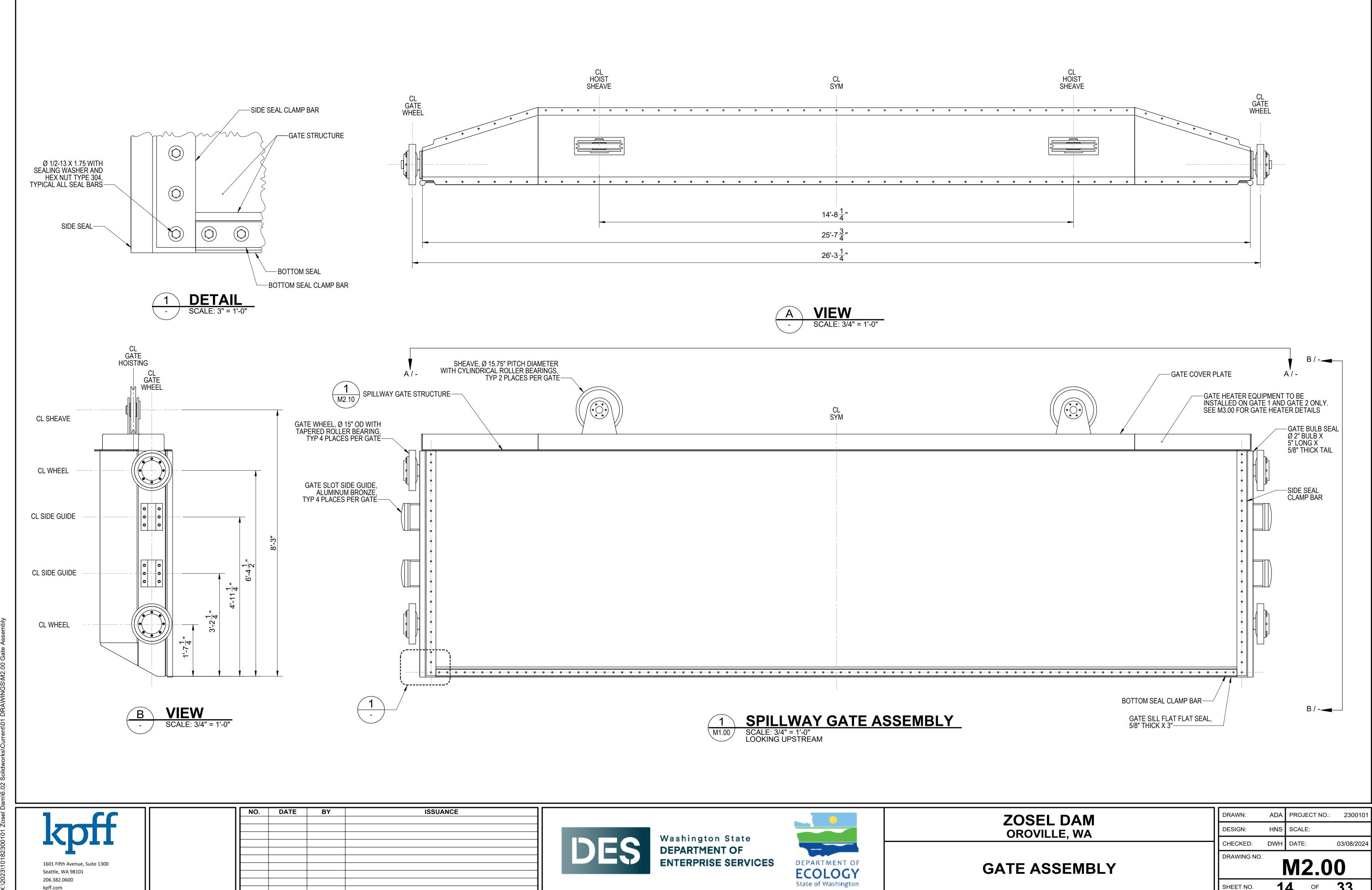




**ZOSEL DAM** OROVILLE, WA

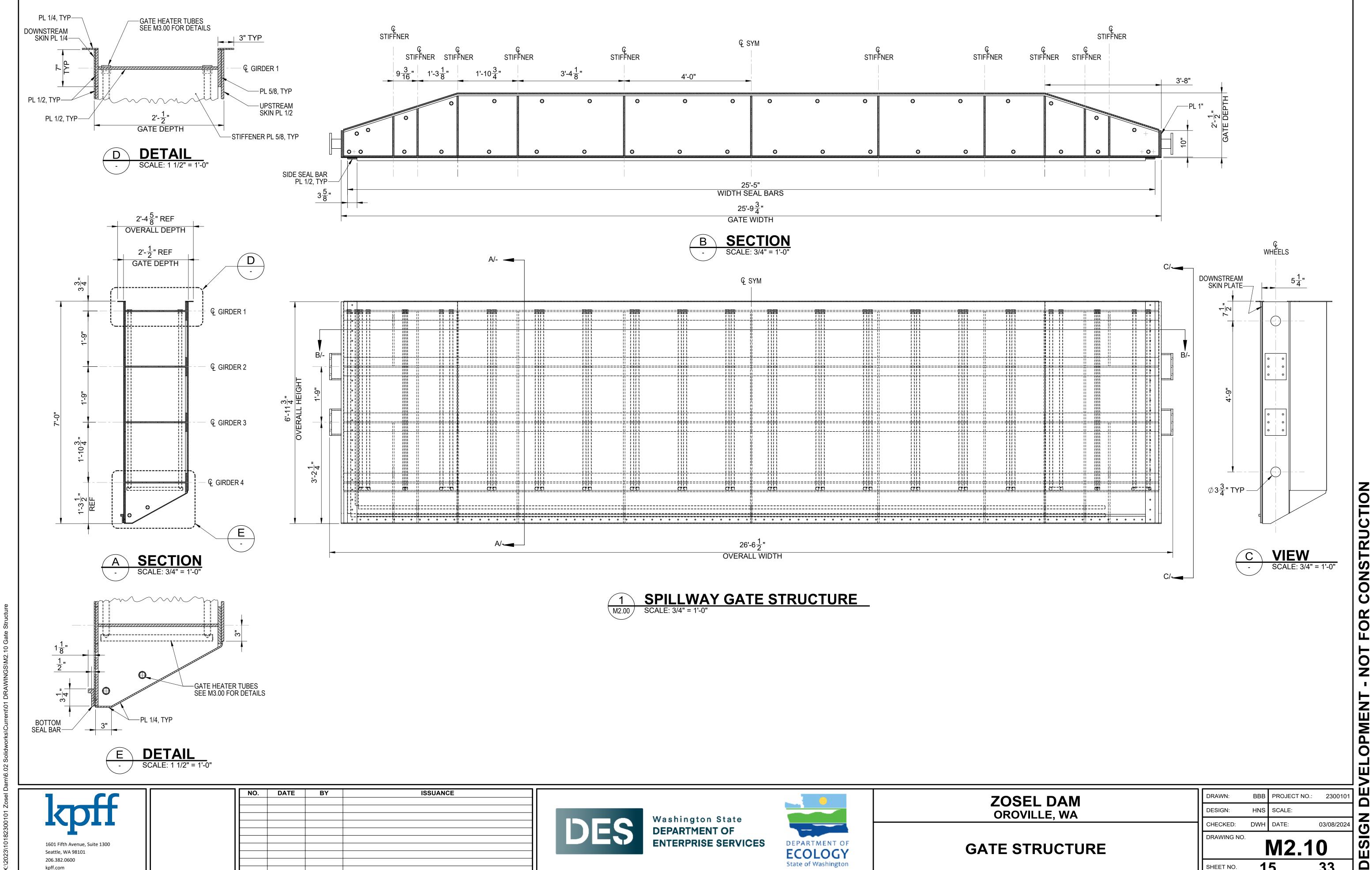
CONTROL STRUCTURE GATE ARRANGEMENT

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	RAWN:	TAD	PROJECT NO.:	2300101

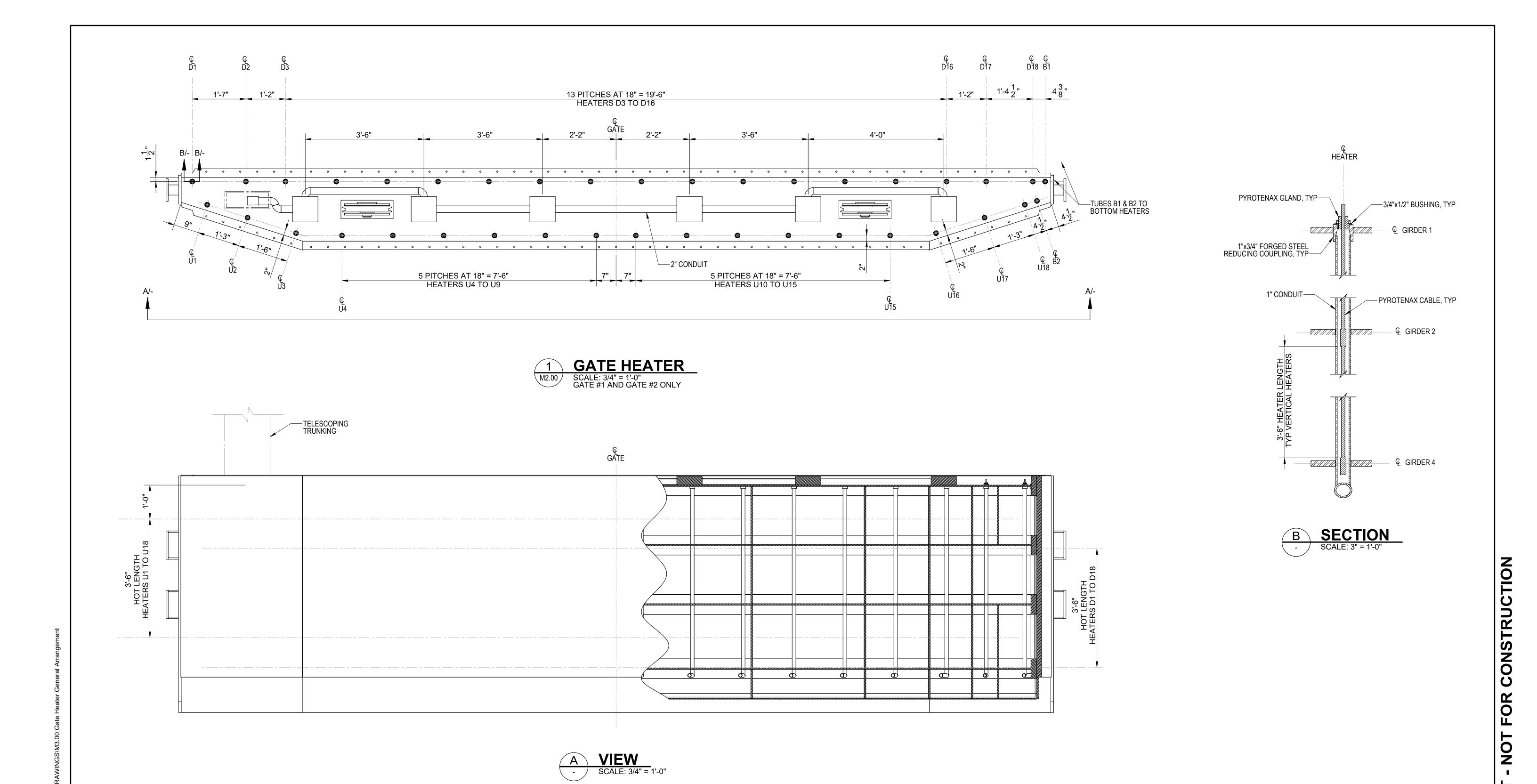


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SHEET NO.



Seattle, WA 98101

206.382.0600

ISSUANCE

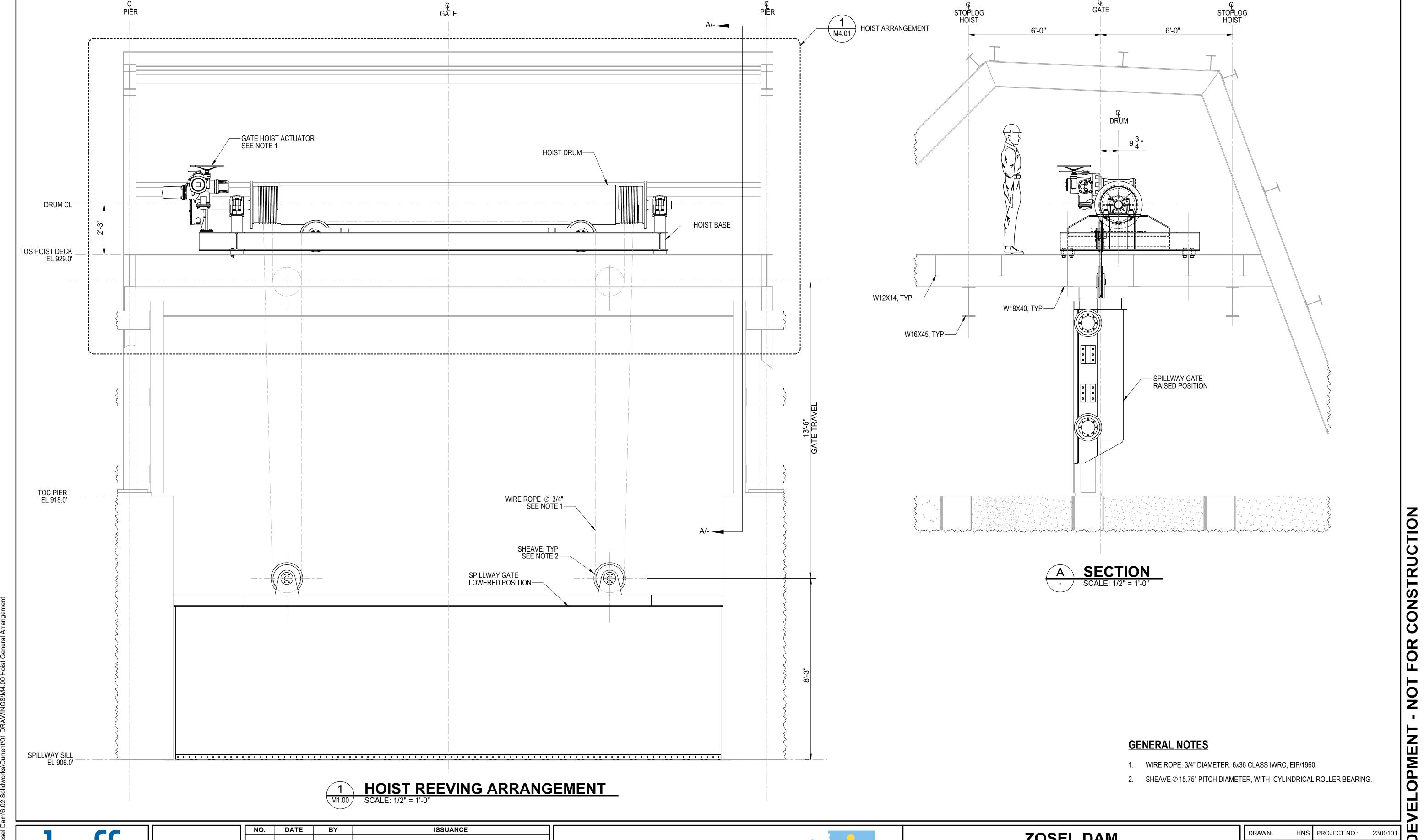




ZOSEL DAM OROVILLE, WA

**GATE HEATER GENERAL ARRANGEMENT** 

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	DESIGN:	HNS	SCALE	Ξ:	
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Seattle, WA 98101 206.382.0600 NO. DATE BY ISSUANCE





ZOSEL DAM OROVILLE, WA

HOIST GENERAL ARRANGEMENT

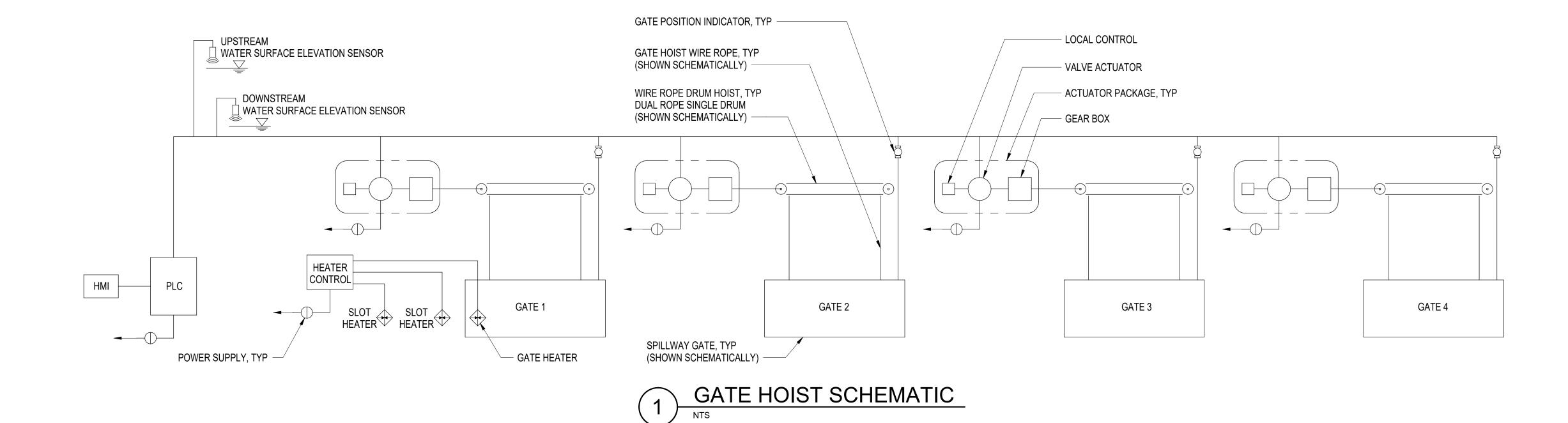
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	DRAWING NO.		M4.0	0
	SHEET NO.	1	<b>7</b> OF	33

14'-6"

Seattle, WA 98101 206.382.0600 14'-6"

ECOLOGY State of Washington HOIST ARRANGEMENT

SHEET NO.



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NO. DATE BY ISSUANCE

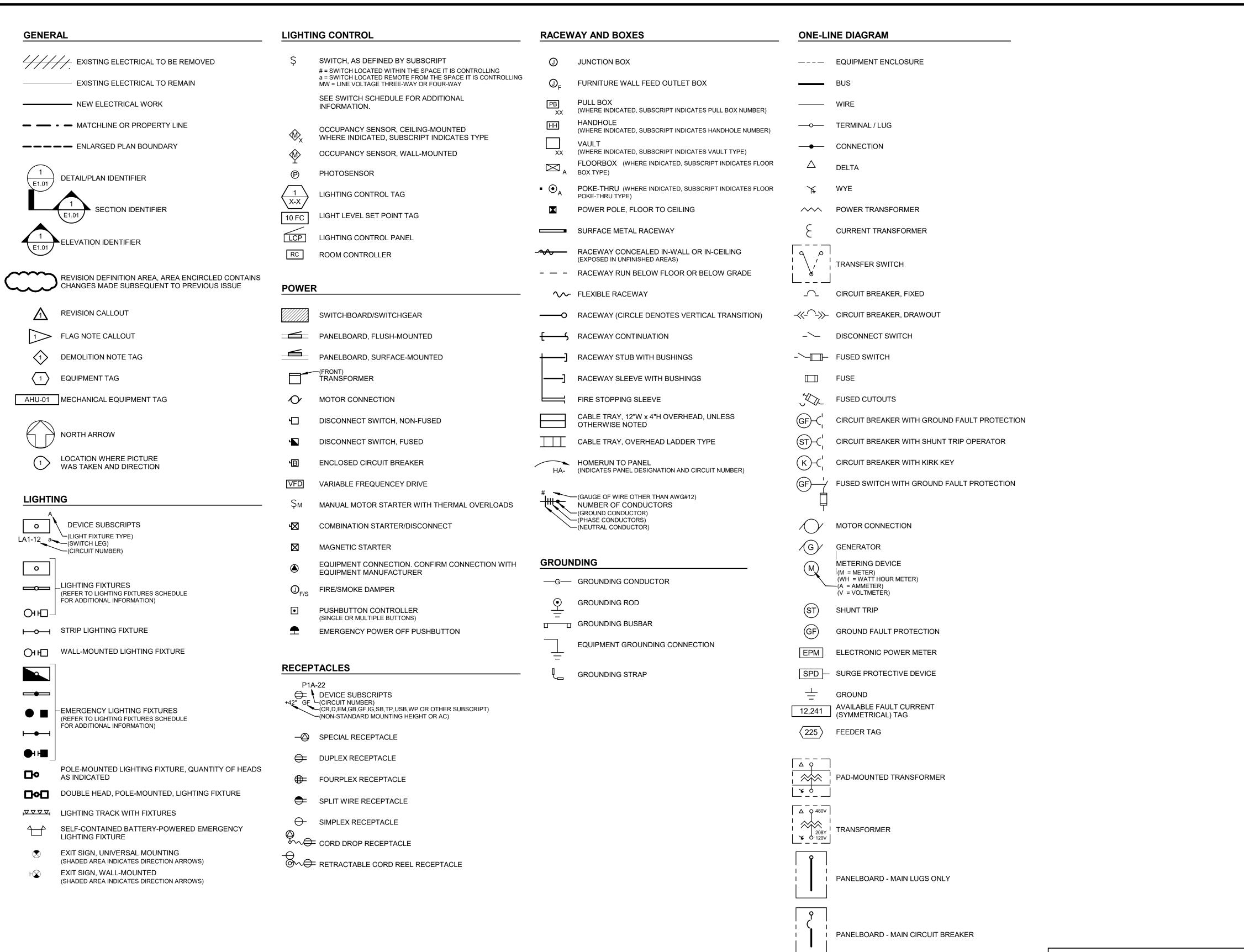




ZOSEL DAM OROVILLE, WA

**GATE HOIST SCHEMATIC** 

	DRAWN:	TAD	PROJECT NO.:	2300101
	DESIGN:	HNS	SCALE:	NTS
┪	CHECKED:	DWH	DATE:	03/08/2024
	DRAWING NO.		M4.0	2
	SHEET NO.	1	<b>9</b> of	33



NOT ALL SYMBOLS MAY APPEAR ON THE DRAWINGS

HARGIS

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Washington State **DEPARTMENT OF ENTERPRISE SERVICES** 



**ZOSEL DAM OROVILLE, WA** 

DRAWING INDEX

E0.03 ELECTRICAL SCHEDULES

E0.01 ELECTRICAL LEGEND AND DRAWING INDEX

E0.02 ELECTRICAL ABBREVIATIONS AND GENERAL NOTES

ED2.01 ELECTRICAL LIGHTING PLAN LEVEL 1 - DEMOLITION

ED2.02 ELECTRICAL LIGHTING PLAN LEVEL 2 - DEMOLITION

ED2.03 ELECTRICAL LIGHTING PLAN ROOF - DEMOLITION

ED3.02 ELECTRICAL POWER PLAN LEVEL 2 - DEMOLITION

ED9.01 ELECTRICAL ONE-LINE DIAGRAM - DEMOLITION

ELECTRICAL LIGHTING PLAN LEVEL 2

ELECTRICAL LIGHTING PLAN ROOF

ELECTRICAL POWER PLAN LEVEL 1

ELECTRICAL POWER PLAN LEVEL 2

E2.01 ELECTRICAL LIGHTING PLAN LEVEL 1

E9.01 ELECTRICAL ONE-LINE DIAGRAM

**INDEX** 

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2. OBTAIN AND PAY FOR PERMITS REQUIRED FOR INSTALLATION OF WORK. ARRANGE AND SCHEDULE REQUIRED INSPECTIONS.

3. COORDINATE WITH UTILITY COMPANIES FURNISHING SERVICES TO PROJECT. INSTALLATION OF UTILITY SERVICES SHALL BE IN ACCORDANCE WITH UTILITY REQUIREMENTS. VERIFY APPLICABLE INSTALLATION STANDARDS AND REQUIREMENTS. PROVIDE AND SUBMIT ELECTRICAL DRAWINGS TO UTILITY FOR APPROVAL PRIOR TO ROUGH-IN AND PRIOR TO ORDERING EQUIPMENT.

DEVICE LOCATIONS ARE APPROXIMATE COORDINATE DEVICE LOCATIONS AND ELEVATIONS WITH APPROPRIATE DOCUMENTS INCLUDING CASEWORK SHOP DRAWINGS AND ARCHITECT'S INTERIOR ELEVATIONS PRIOR TO ROUGH-IN.

COORDINATE ELECTRICAL WORK WITH THAT OF OTHER TRADES. REFER TO MECHANICAL ARCHITECTURAL, STRUCTURAL, CIVIL, AND LANDSCAPE DRAWINGS AND SPECIFICATIONS. COORDINATION SHALL OCCUR PRIOR TO FABRICATION, PURCHASE, AND INSTALLATION OF WORK.

6. COORDINATE LOCATION OF LIGHT FIXTURES AND CEILING-MOUNTED DEVICES WITH ARCHITECTURAL REFLECTED CEILING PLANS AND ELEVATIONS.

7. PROVIDE RATED ENCLOSURES AROUND ALL LIGHT FIXTURES PENETRATING RATED CEILINGS. COORDINATE WITH ARCHITECTURAL

REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR LOCATIONS OF EXPANSION/SEISMIC JOINTS. PROVIDE RACEWAY EXPANSION/SEISMIC JOINTS FOR RACEWAYS CROSSING BUILDING EXPANSION/SEISMIC JOINTS

DEMOLISH EXISTING SYSTEMS AS INDICATED ON PLANS OR AS REQUIRED FOR INSTALLATION OF NEW WORK. MATERIAL SHALL BE REMOVED FROM SITE AND LEGALLY DISPOSED OF OFF SITE UNLESS OTHERWISE DIRECTED. RETURN ITEMS TO OWNER IN EXISTING CONDITION WHEN DIRECTED BY OWNER.

10. COMPLETION OF WORK SHALL BE EXECUTED IN ACCORDANCE WITH THE PROJECT SCHEDULE. SCHEDULE INSTALLATION WITH OTHER TRADES TO ENSURE PROJECT MILESTONES ARE MET.

11. DRAWINGS ARE DIAGRAMMATIC AND DO NOT SHOW ALL COMPONENTS REQUIRED FOR A COMPLETE INSTALLATION. PROVIDE COMPONENTS REQUIRED FOR COMPLETE AND OPERATIONAL SYSTEMS INCLUDING RACEWAYS, CONDUCTORS, BOXES, SUPPORTS AND SIMILAR ITEMS.

12. BRANCH CIRCUIT HOMERUNS ARE SHOWN TO INDICATE CIRCUIT PROPERTIES AND CONFIGURATION. SINGLE-CIRCUIT HOMERUNS SERVED FROM THE SAME PANELBOARD MAY BE COMBINED IN ACCORDANCE WITH THE DIVISION 26 SPECIFICATIONS, UNLESS INDICATED OTHERWISE. EXTEND AND CONNECT BRANCH CIRCUIT RACEWAY AND WIRING FROM HOMERUN TO DEVICES AND EQUIPMENT WITH CIRCUIT NUMBERS INDICATED. CONDUCTOR QUANTITIES AND SIZES ARE INDICATED AT HOMERUNS ONLY. SHOW ACTUAL RACEWAY ROUTING AND CIRCUITING ON RECORD DRAWINGS. MINIMUM CONDUCTOR SIZE #12 AWG.

13. LIGHT FIXTURES MOUNTED IN CONTINUOUS ROWS SHALL BE THROUGH-WIRED VIA FIXTURE INTERNAL WIREWAYS. CIRCUITS AS INDICATED ON DRAWINGS. FIXTURES NOT LISTED FOR THROUGH WIRING SHALL BE WIRED VIA SEPARATE RACEWAY AND WIRING SYSTEM EXTERNAL TO THE FIXTURES. PROVIDE RACEWAYS, WIRING AND CONNECTIONS FOR A COMPLETE AND OPERATIONAL SYSTEM.

#### **ABBREVIATIONS**

**AMPERE** AIR CONDITIONING; ALTERNATING CURRENT IBC ABOVE COUNTER IC AMP FUSE; AMP FRAME IDF AFC AVAILABLE FAULT CURRENT IEEE AFF ABOVE FINISHED FLOOR AG ABOVE GRADE IG AHJ **AUTHORITIES HAVING JURISDICTION** IMC AHU AIR HANDLING UNIT ISDN AIC AMPERE INTERRUPTING CAPACITY ALUMINUM AMERICAN NATIONAL STANDARDS INSTITUTE ANSI AS **AMP SWITCH** ΑT AMP TRIP ASYNCHRONOUS TRANSFER MODE **AUTOMATIC TRANSFER SWITCH AUDIO VISUAL** AWG AMERICAN WIRE GAUGE BUILDING AUTOMATION SYSTEM BATT **BATTERIES** BASIC IMPULSE INSULATION LEVEL **BKBD BACKBOARD** BKR **BREAKER** BLDG BUILDING CONDUIT; DEGREES CELCIUS CAB CABINET CAT CATEGORY COMMUNITY ANTENNA TELEVISION CB CIRCUIT BREAKER **CCTV** CLOSED CIRCUIT TELEVISION CLG CEILING CM **CEILING-MOUNTED** CO CONDUIT ONLY COW COMPUTER ON WHEELS CR CONTROLLED RECEPTACLE CT **CURRENT TRANSFORMER** CU COPPER DEDICATED DIRECT DIGITAL CONTROL DEMARC DEMARCATION POINT DISCONNECT DIST DISTRIBUTION DSL DIGITAL SUBSCRIBER LINE DWG DRAWING **EXISTING** (E) EΑ EACH EF EXHAUST FAN **ELECTRONIC INDUSTRIES ASSOCIATION** EΙΑ ELEV ELEVATION EΜ **EMERGENCY ELECTRICAL METALLIC TUBING** ENCLOSURE **ELECTRONIC POWER METER** EMERGENCY POWER OFF **EQUIPMENT EQUIP** EXISTING TO REMAIN ETR ELECTRIC VEHICLE CHARGING STATION **EVCS** ELECTRIC WATER COOLER FUSES; DEGREES FAHRENHEIT FA FIRE ALARM

MFR MH MIN MLO MM **MPOE MPOP** MAIN POINT OF PRESENCE MTD (N) NAC NEC NEMA NON-FUSED NIC OHL POLE PBX PH PNLPP PT PVC REC

RTRC

INTERNATIONAL BUILDING CODE INTERMEDIATE CROSS CONNECT INTERMEDIATE DISTRIBUTION FRAME INSTITUTE OF ELECTRICAL AND ELECTRONIC **ENGINEERS** ISOLATED GROUND INTERMEDIATE METALLIC CONDUIT INTEGRATED SERVICES DIGITAL NETWORK

SHT

SLC

SM

SMFC

SONET

**SPEC** 

SPST

ST

TEL

TGB

**TMGB** 

TP

TV

TVSS

TYP

UG

UON

UPS

USB

UTP

UV

W/

W/O

WA

WAN

WG

UL

TELCO

SMR

SHEET

SINGLEMODE

SIGNALING LINE CIRCUIT

SERVICE PROVIDER

SPECIFICATIONS

SHUNT TRIP

**SWITCHBOARD** 

TELEPHONE

**TAMPERPROOF** 

UNDERGROUND

TELEVISION

TYPICAL

VOLTS

WITH

WITHOUT

WIRE GUARD

SWITCH

SURFACE METAL RACEWAY

SURGE PROTECTIVE DEVICE

SINGLE POLE SINGLE THROW

SUPER VIDEO GRAPHICS ARRAY

SHIELDED TWISTED PAIR

TELEPHONE COMPANY

TELECOMMUNICATIONS ROOM

TELEPHONE TERMINAL BOARD

UNDERWRITERS LABORATORIES

UNINTERRUPTIBLE POWER SUPPLY

UNLESS OTHERWISE NOTED

UNSHIELDED TWISTED PAIR

VARIABLE FREQUENCY DRIVE

WASTE, WATT, WIDE, WATER

**WORKSTATION AREA** 

WIDE AREA NETWORK

WATT HOUR METER

WEATHERPROOF

TRANSFORMER

**IMPEDANCE** 

UNIVERSAL SERIAL BUS

**UNIT VENTILATOR** 

**VOLT AMPERES** 

SYNCHRONOUS OPTICAL NETWORK

SURFACE-MOUNTED OPTICAL FIBER CABINET

TELECOMMUNICATIONS BONDING BACKBONE

TELECOMMUNICATIONS GROUNDING BUSBAR

TRANSIENT VOLTAGE SURGE SUPPRESSION

TELECOMMUNICATIONS INDUSTRY ASSOCIATION

TELECOMMUNICATIONS MAIN GROUNDING BUSBAR

JUNCTION KIRK KEY THOUSAND CIRCULAR MILS kVA KILOVOLT AMPERE **KVAR** KILOVOLT AMPERE REACTIVE KILOWATT LOCAL AREA NETWORK

LCP LIGHTING CONTROL PANEL LEC LOCAL EXCHANGE CARRIER LT LIGHT LTG LIGHTING METER М

MAN METROPOLITAN AREA NETWORK MAX MAXIMUM MC MAIN CROSS CONNECT; METAL CLAD (CABLE) MCB MAIN CIRCUIT BREAKER MCC MOTOR CONTROL CENTER MAIN DISTRIBUTION FRAME MDF

MDP MAIN DISTRIBUTION PANEL **MANUFACTURER** MANHOLE MINIMUM MAIN LUGS ONLY MULTIMODE MAIN POINT OF ENTRY

MOUNTED MANUAL TRANSFER SWITCH MEDIUM VOLTAGE

NEUTRAL NOTIFICATION APPLIANCE CIRCUIT NATIONAL ELECTRICAL CODE NATIONAL ELECTRICAL MANUFACTURERS **ASSOCIATION** 

NOT IN CONTRACT **NIGHT LIGHT** OPTICAL FIBER CABLE OVERHEAD LINE

OVERLOAD OCCUPANCY SENSOR OUTSIDE PLANT

> PRIVATE BRANCH EXCHANGE **POWER FACTOR** PHASE PASSIVE INFRARED POST INDICATING VALVE PANEL

PATCH POTENTIAL TRANSFORMER POLYVINYL CHLORIDE

REFLECTED CEILING PLAN RECEPTACLE REFER TO REV REVISION RM

ROOM REINFORCED THERMOSETTING RESIN CONDUIT RACK UNIT

NON-STRUCTURAL ELECTRICAL COMPONENT NOTES

1. THE FOLLOWING ITEMS ARE TAKEN DIRECTLY FROM THE 2018 INTERNATIONAL BUILDING CODE AND FROM THE AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE) STANDARD 7. THE CONTRACTOR SHALL REFER TO THE ABOVE FOR ADDITIONAL INFORMATION, EXCEPTIONS, AND FURTHER DESCRIPTIONS. THE CONTRACTOR SHALL ADHERE TO REQUIREMENTS AND AS SUCH, SHALL BE INCLUDED WITHIN BID. ALSO REFER TO SPECIFICATIONS.

2. 2018 IBC, 1613.1, SCOPE: ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND NON-STRUCTURAL COMPONENTS THAT ARE PERMANENTLY ATTACHED TO STRUCTURES AND THEIR SUPPORTS AND ATTACHMENTS SHALL BE DESIGNED AND CONSTRUCTED TO RESIST THE EFFECTS OF EARTHQUAKE MOTIONS IN ACCORDANCE WITH ASCE 7, EXCLUDING CHAPTER 14 AND APPENDIX 11A.

ASCE 7 CONTRACTOR RESPONSIBILITY: THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONSTRUCTION OF A SEISMIC-FORCE-RESISTING SYSTEM DESIGNATED SEISMIC SYSTEM, OR COMPONENT LISTED IN THE QUALITY ASSURANCE PLAN AND SHALL SUBMIT A WRITTEN CONTRACTOR'S STATEMENT OF RESPONSIBILITY TO THE AUTHORITY HAVING JURISDICTION AND TO THE OWNER PRIOR TO THE COMMENCEMENT OF WORK ON THE SYSTEM OR COMPONENT. THE CONTRACTOR'S STATEMENT OF RESPONSIBILITY SHALL INCLUDE THE FOLLOWING:

ACKNOWLEDGMENT OF AWARENESS OF THE SPECIAL REQUIREMENTS CONTAINED IN THE QUALITY ASSURANCE PLAN;

ACKNOWLEDGMENT THAT CONTROL WILL BE EXERCISED TO OBTAIN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS APPROVED BY THE AUTHORITY HAVING JURISDICTION;

PROCEDURES FOR EXERCISING CONTROL WITHIN THE CONTRACTOR'S ORGANIZATION, THE METHOD AND FREQUENCY OF REPORTING AND THE DISTRIBUTION OF THE REPORTS: AND

IDENTIFICATION AND QUALIFICATIONS OF THE PERSON(S) EXERCISING SUCH CONTROL AND THEIR POSITION(S) IN THE ORGANIZATION.

4. DIVISION 26 RESPONSIBILITIES:

HANGERS AND SEISMIC BRACING FOR ELECTRICAL SYSTEMS SHALL BE DESIGNED AND SPECIFIED BY DIVISION 26. DIVISION 26 SHALL REFER TO THE ELECTRICAL DRAWINGS FOR LOCATIONS OF EQUIPMENT AND ELECTRICAL SYSTEMS AS STRUCTURAL DRAWINGS DO NOT SHOW THE LOCATIONS OF ELECTRICAL EQUIPMENT, RACEWAYS, AND

OTHER COMPONENTS. DIVISION 26 SHALL COORDINATE THE SUPPORT SYSTEMS AND DESIGN LOADS FOR HUNG RACEWAYS AND OTHER ELECTRICAL SYSTEMS (INCLUDING COMBINED MULTIPLE RACEWAY RUNS) WITH THE GENERAL CONTRACTOR AND THE STEEL AND WOOD JOIST MANUFACTURERS IN ADDITION TO OTHER TRADES THAT MAY BE IMPACTED.

#### **ENERGY CODE NOTES**

1. RECORD DRAWINGS: SUBMIT TO THE BUILDING OWNER PER ENERGY CODE ENFORCED BY THE LOCAL

2. OPERATION AND MAINTENANCE MANUALS: SUBMIT TO THE BUILDING OWNER PER ENERGY CODE ENFORCED BY THE LOCAL AHJ.

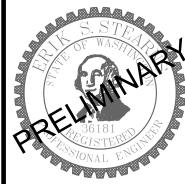
3. THIS BUILDING AND ITS ENERGY SYSTEMS HAVE BEEN DESIGNED TO COMPLY WITH ENERGY CODE ENFORCED BY THE LOCAL AHJ. CONTRACTOR IS RESPONSIBLE FOR CORRECT INSTALLATION OF **ENERGY CONSERVATION MEASURES.** 

4. LIGHTING CONTROL SYSTEMS COMMISSIONING AND COMPLETION REQUIREMENTS: TEST SYSTEMS TO ENSURE THAT BUILDING SYSTEMS HAVE BEEN INSTALLED AND FUNCTION PROPERLY AND EFFICIENTLY, AND CAN BE MAINTAINED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND OPERATIONAL REQUIREMENTS PER ENERGY CODE ENFORCED BY THE AHJ. REFER TO SPECIFICATIONS FOR ADDITIONAL COMMISSIONING REQUIREMENTS.

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FIRE ALARM ANNUNCIATOR PANEL

FURNISHED BY OWNER INSTALLED BY

GROUND FAULT CIRCUIT INTERRUPTER

**GROUND FAULT PROTECTION** 

HORIZONTAL CROSS CONNECT HIGH INTENSITY DISCHARGE

**GALVANIZED RIGID STEEL** 

FURNISHED BY OWNER INSTALLED BY OWNER

GROUND FAULT CIRCUIT INTERRUPTER BREAKER

FIRE ALARM CONTROL PANEL

FURNISHED BY OWNER

FIRE SMOKE DAMPER

CONTRACTOR

GROUND

GROUND

**HEATER HERTZ** 

HORSEPOWER

FSD

**GFP** 

GND



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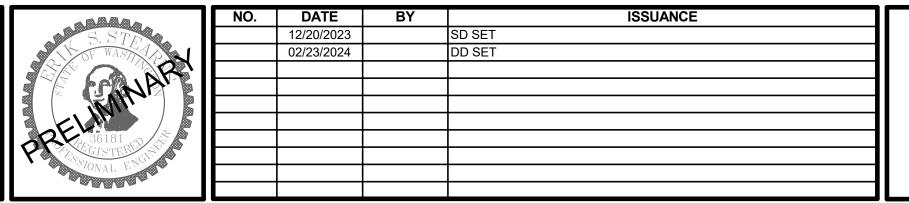
**ELECTRICAL ABBREVIATIONS AND GENERAL NOTES** 

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LIGHT FIXTURE SCHEDULE										
TYPE	DESCRIPTION	MANUFACTURER	MODEL SERIES	LIGHT SOURCE	COLOR TEMP	DELIVERED LUMENS	INPUT WATTS	FINISH	NOTES	
D1	CEILING-MOUNTED DOWNLIGHT, WET LOCATION LISTED.	STONCO	GC60	LED		4250	28			
S1	LINEAR 4' STRIP, VAPOR TIGHT, WET LOCATION LISTED.	SOLAS	SV248	LED		4000	80			
W1	WALL-MOUNTED WITH GUARD, WET LOCATION LISTED.	COOPER	TRR11 LD4	LED		2333	25			
X1	EXIT LIGHT FIXTURE. GREEN LETTERING WITH WHITE FACE PLATE. WET LOCATION LISTED.	COOPER	LPXW	LED		-	2.7			
WX2	EMERGENCY LIGHT WITH BATTERY BACK-UP. WET LOCATION LISTED.	COOPER	SELHP100R3	LED		580	4.3			
P1	POLE MOUNTED FLOOD LIGHT. WET LOCATION LISTED.	LITHONIA	ESXF5	LED	3000K	30000	184			
NOTES:						-				

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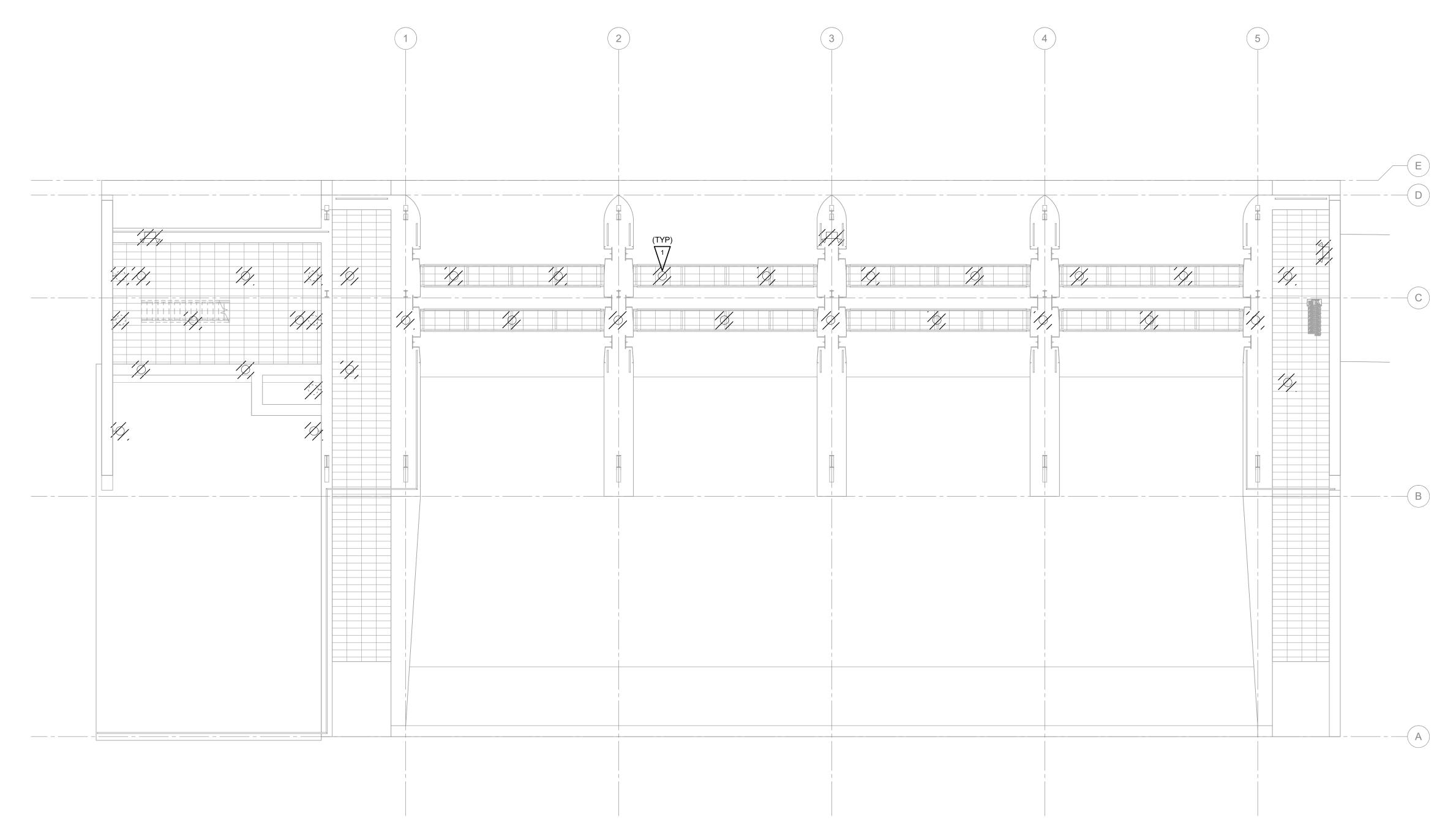
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- ELECTRICAL ITEMS SHOWN ARE DIAGRAMMATIC BASED ON AVAILABLE RECORD DRAWINGS AND SITE WALKS DURING THE DESIGN PERIOD. NOT ALL SYSTEM COMPONENTS ARE SHOWN. FIELD VERIFY DEVICE LOCATIONS AND QUANTITIES PRIOR TO COMMENCING WORK. REROUTE EXISTING-TO-REMAIN DEVICE CONDUIT AND WIRING AS REQUIRED.
- 2. REMOVE UNUSED SURFACE RACEWAY ASSOCIATED WITH ITEMS IDENTIFIED FOR DEMOLITION AS INDICATED, ALONG WITH THEIR ASSOCIATED BOXES AND WIRING BACK TO NEAREST ACTIVE TO REMAIN JUNCTION BOX OR BRANCH CIRCUIT PANEL. REMOVE UNUSED BOXES. COORDINATE PATCHING AND PAINTING WITH DIVISION 09. PROVIDE MUD RINGS AND BLANK COVERS FOR UNUSED RECESSED BOXES TO REMAIN. ABANDON BELOW GRADE AND INACCESSIBLE RACEWAY IN PLACE AND RECORD LOCATIONS ON RECORD DRAWINGS REFER TO SPECIFICATION SECTION 262726 FOR ADDITIONAL INFORMATION.

# **FLAG NOTES**

DEMOLISH EXISTING FIXTURE AND WIRING TO PANEL AND SWITCHES. LEAVE CONDUIT IN PLACE FOR REUSE.



1 ELECTRICAL LIGHTING PLAN LEVEL 1 - DEMOLITION SCALE: 1/8" = 1'-0"

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**ELECTRICAL LIGHTING PLAN LEVEL 1 -DEMOLITION** 

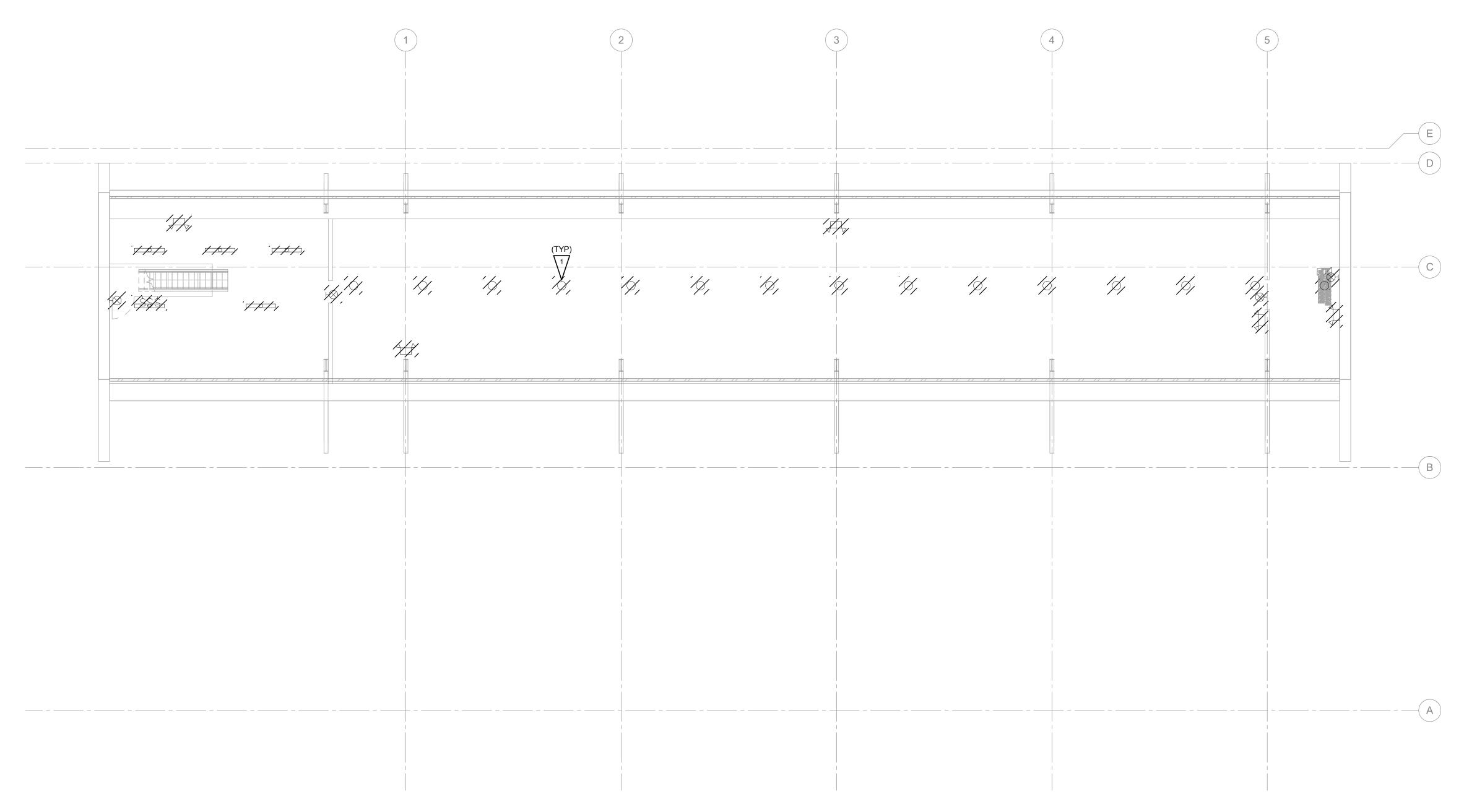
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# **FLAG NOTES**

DEMOLISH EXISTING FIXTURE AND WIRING TO PANEL AND SWITCH(ES). LEAVE CONDUIT IN PLACE FOR REUSE.



ELECTRICAL LIGHTING PLAN LEVEL 2 - DEMOLITION

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**ELECTRICAL LIGHTING PLAN LEVEL 2 -DEMOLITION** 

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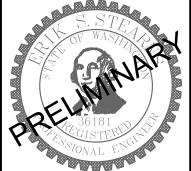
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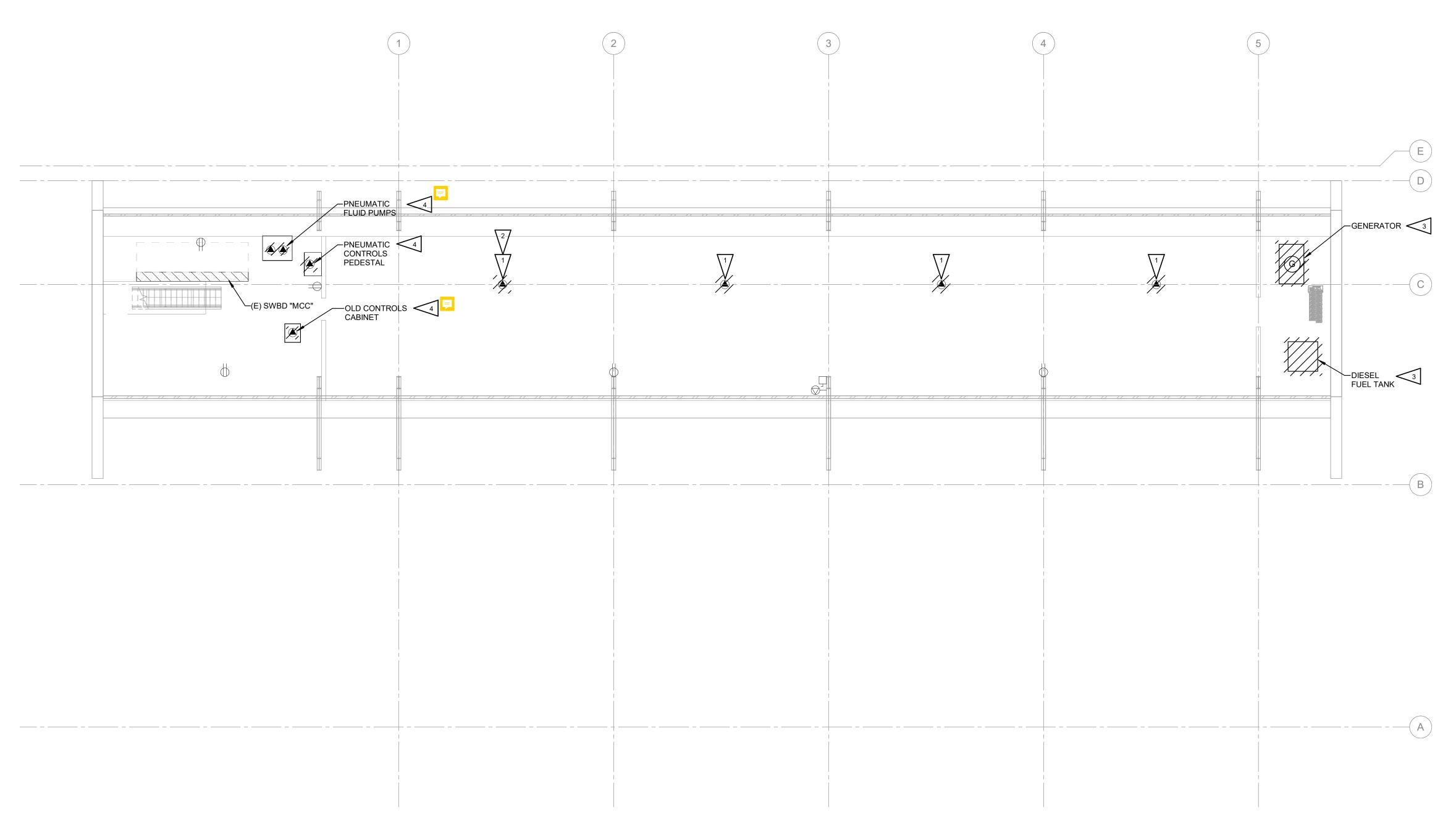
# **FLAG NOTES**

DEMOLISH CONDUIT, CONDUCTORS AND CONNECTION FROM EXISTING HOIST TO PNEUMATIC CONTROL PANEL AND MCC.

DEMOLISH CONDUIT, CONDUCTORS AND CONNECTION FROM EXISTING GATE HEATER TO SOURCE.

DEMOLISH GENERATOR, FUEL TANK, FUEL PIPING, CONDUIT, CONDUCTORS AND ALL ANCILLARY EQUIPMENT BACK TO MCC.

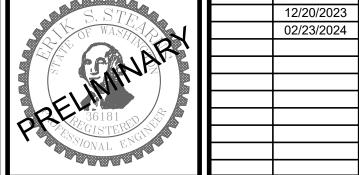
DEMOLISH CONDUIT AND CONDUCTORS FROM MCC TO EXISTING EQUIPMENT. DEMOLITION OF EQUIPMENT BY



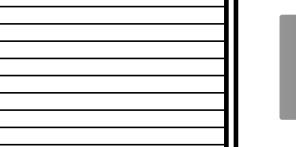
ELECTRICAL POWER PLAN LEVEL 2 - DEMOLITION

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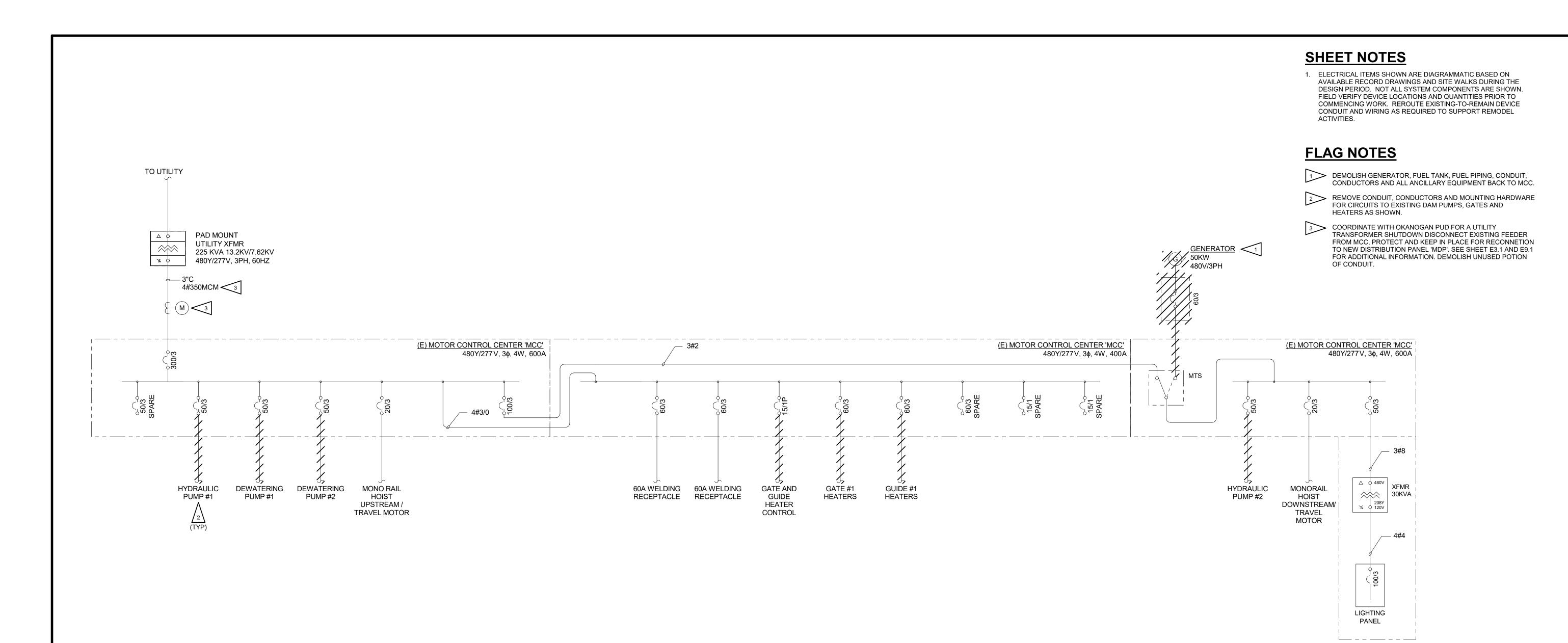
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**ELECTRICAL POWER PLAN LEVEL 2 -DEMOLITION** 

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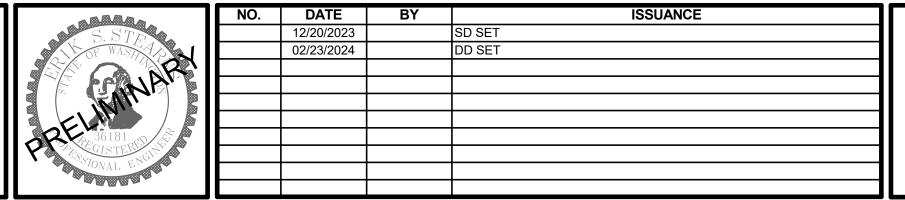
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ELECTRICAL ONE-LINE DIAGRAM - DEMOLITION

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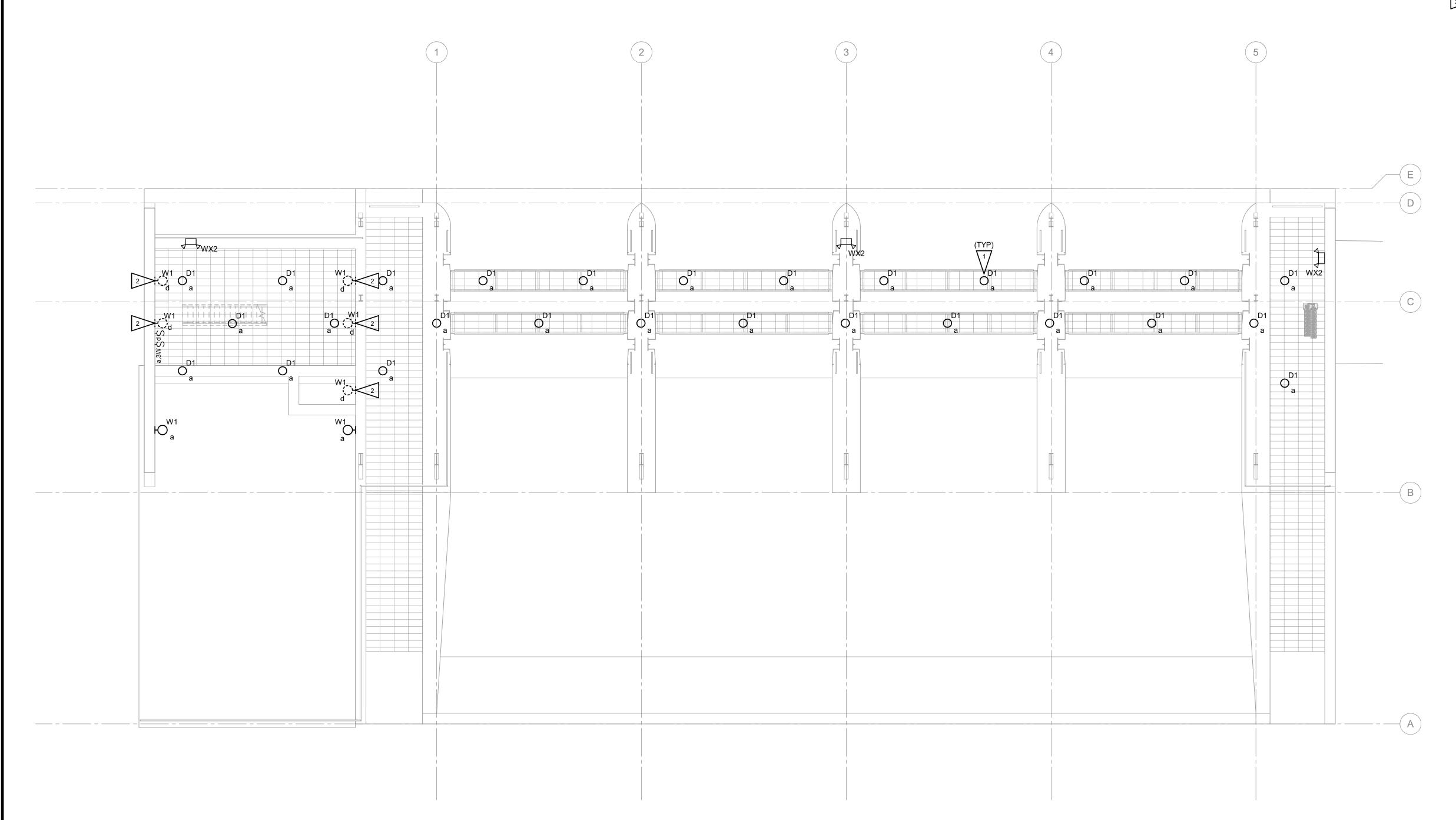
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- REFER TO LIGHT FIXTURE SCHEDULE ON SHEET E0.03 FOR ADDITIONAL INFORMATION.
- 2. COORDINATE LIGHT FIXTURE LOCATIONS AND MOUNTING WITH EQUIPMENT, PIPING AND DAM EQUIPMENT. ADJUST FIXTURE LOCATIONS TO AVOID CONFLICTS AND EFFECTIVELY LIGHT THE EQUIPMENT WORKSPACE. COORDINATE CONDUIT INSTALLATIONS WITH PIPING SYSTEMS AND PROVIDE OFFSETS AS REQUIRED. PROVIDE RED-LINE FIXTURE LOCATIONS ON RECORD DRAWINGS.
- 3. SEE SHEET E2.02 FOR LIGHT SWITCH CONTROLLING CIRCUIT a.

# **FLAG NOTES**

PROVIDE FIXTURE AND CONDUCTORS TO PANEL IN EXISTING CONDUITS. INSTALL JUNCTION BOXES AND EXTEND CONDUIT TO NEW FIXTURE LOCATIONS WHERE REQUIRED.

LIGHT FIXTURE LOCATED IN STOP LOG/SUMP PUMP PIT BELOW THIS LEVEL.



1 ELECTRICAL LIGHTING PLAN LEVEL 1
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**ELECTRICAL LIGHTING PLAN LEVEL 1** 

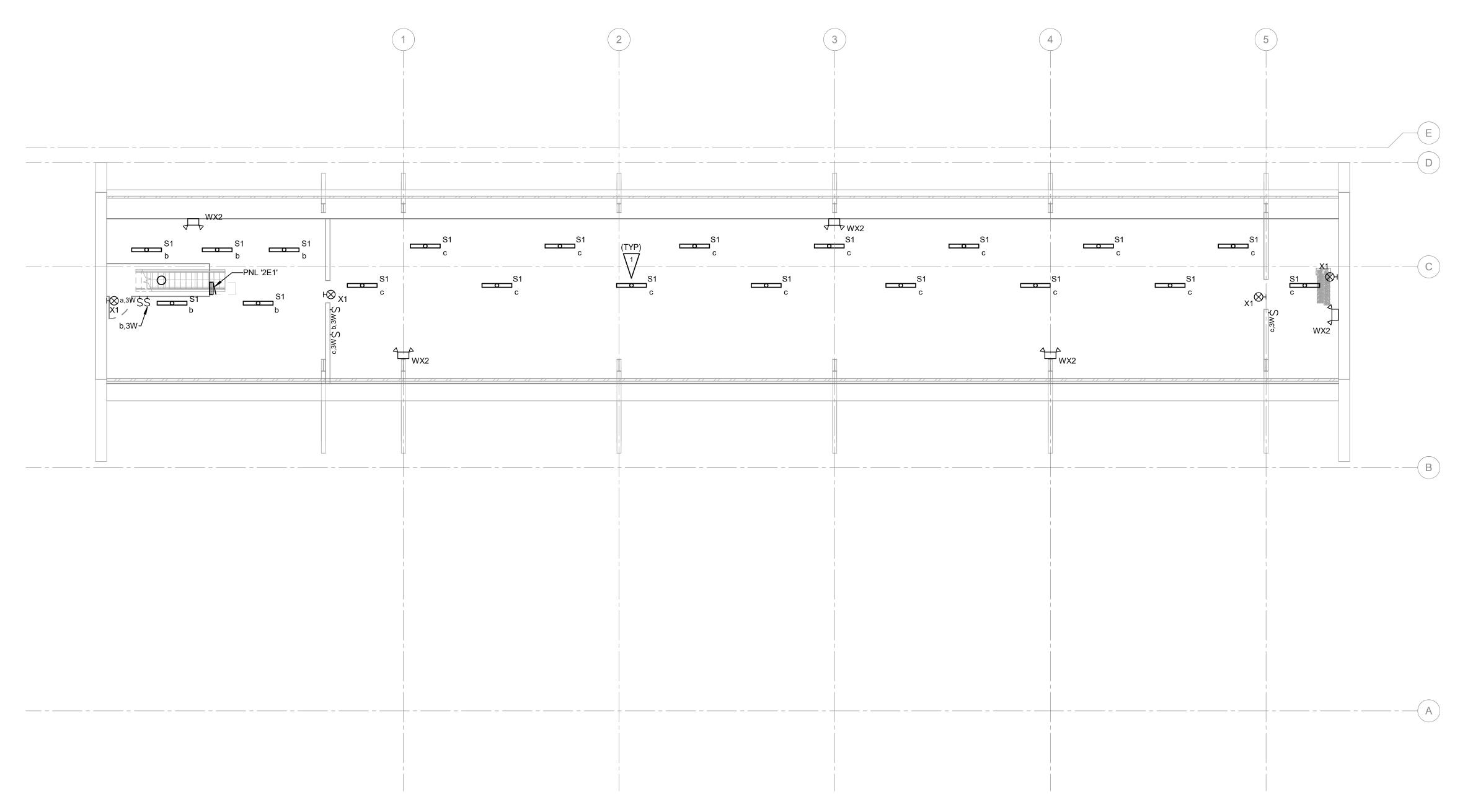
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DRAWING NO.			4

E2.01 **28** OF SHEET NO.

- REFER TO LIGHT FIXTURE SCHEDULE ON SHEET E0.03 FOR ADDITIONAL INFORMATION.
- 2. COORDINATE LIGHT FIXTURE LOCATIONS AND MOUNTING WITH EQUIPMENT, PIPING AND DAM EQUIPMENT. ADJUST FIXTURE LOCATIONS TO AVOID CONFLICTS AND EFFECTIVELY LIGHT THE EQUIPMENT WORKSPACE. COORDINATE CONDUIT INSTALLATIONS WITH PIPING SYSTEMS AND PROVIDE OFFSETS AS REQUIRED. PROVIDE RED-LINE FIXTURE LOCATIONS ON RECORD DRAWINGS.

# **FLAG NOTES**

PROVIDE FIXTURE MOUNTED WITH NEW STRUT RACK THAT SPANS THE GAP BETWEEN I-BEAMS. CONDUCTORS AND CONDUIT FROM FIXTURE TO SWITCH AND PANEL SHALL BE

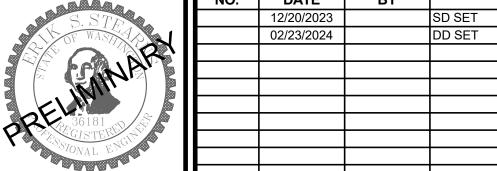


1 ELECTRICAL LIGHTING PLAN LEVEL 2
E2.02 SCALE: 1/8" = 1'-0"

HARGIS

Hargis Engineers, Inc.
1201 Third Ave, Suite 600
Seattle, WA 98101

s Engineers, Inc. hird Ave, Suite 600 Seattle, WA 98101 t | 206.448.3376 f | 206.448.4450 w | hargis.biz



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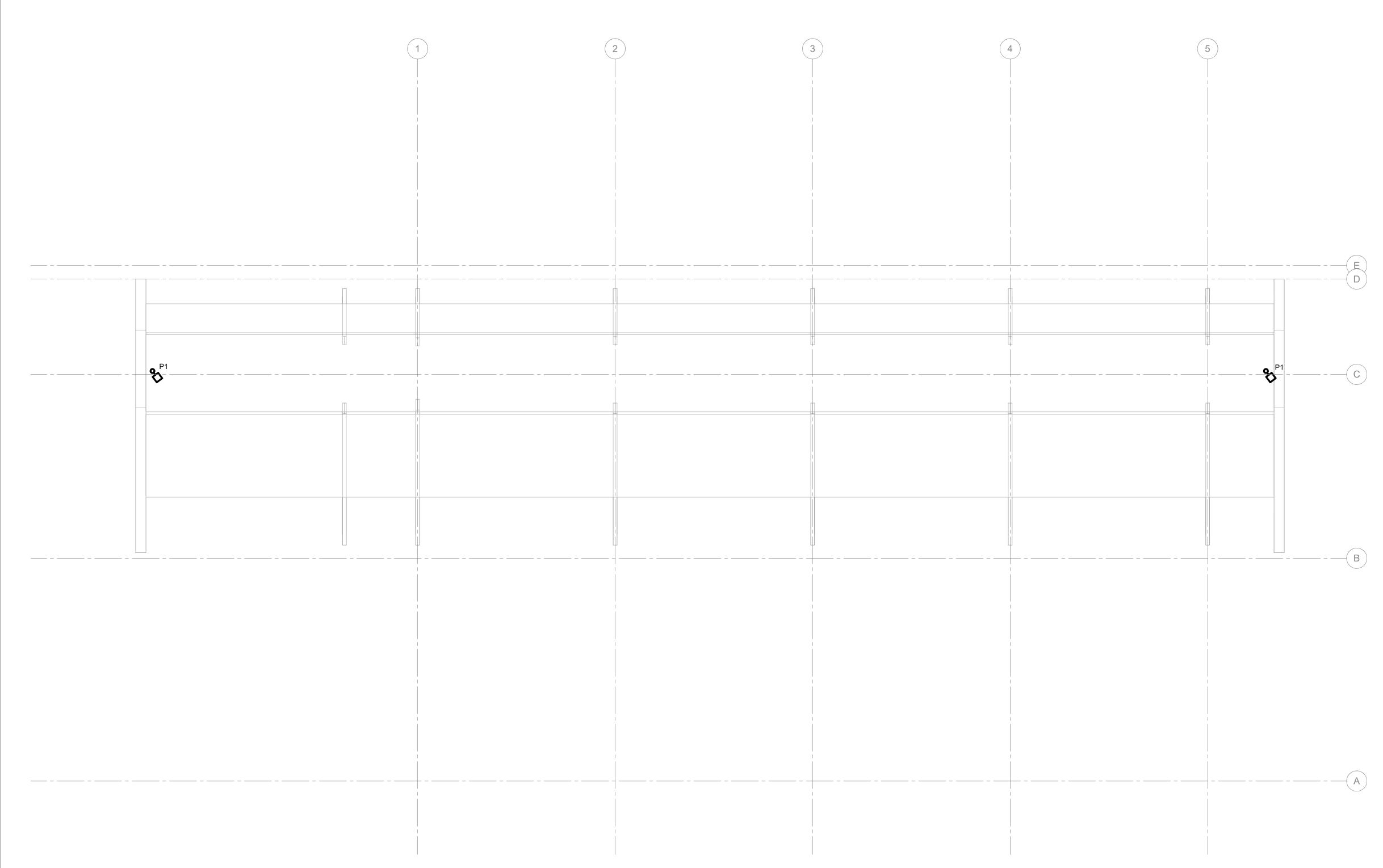
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**ELECTRICAL LIGHTING PLAN LEVEL 2** 

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DESIGN:	MM	SCALE:	As indicated
CHECKED:	ES	DATE:	03/08/2024
DRAWING NO.		E2 0	2

E2.02
SHEET NO. 29 OF 33

- REFER TO LIGHT FIXTURE SCHEDULE ON SHEET E0.03 FOR ADDITIONAL INFORMATION.
- 2. COORDINATE LIGHT FIXTURE LOCATIONS AND MOUNTING WITH EQUIPMENT, PIPING AND DAM EQUIPMENT. ADJUST FIXTURE LOCATIONS TO AVOID CONFLICTS AND EFFECTIVELY LIGHT THE EQUIPMENT WORKSPACE. COORDINATE CONDUIT INSTALLATIONS WITH PIPING SYSTEMS AND PROVIDE OFFSETS AS REQUIRED. PROVIDE RED-LINE FIXTURE LOCATIONS ON RECORD DRAWINGS.



1 ELECTRICAL LIGHTING PLAN ROOF
E2.03 SCALE: 1/8" = 1'-0"

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Seattle, WA 98101

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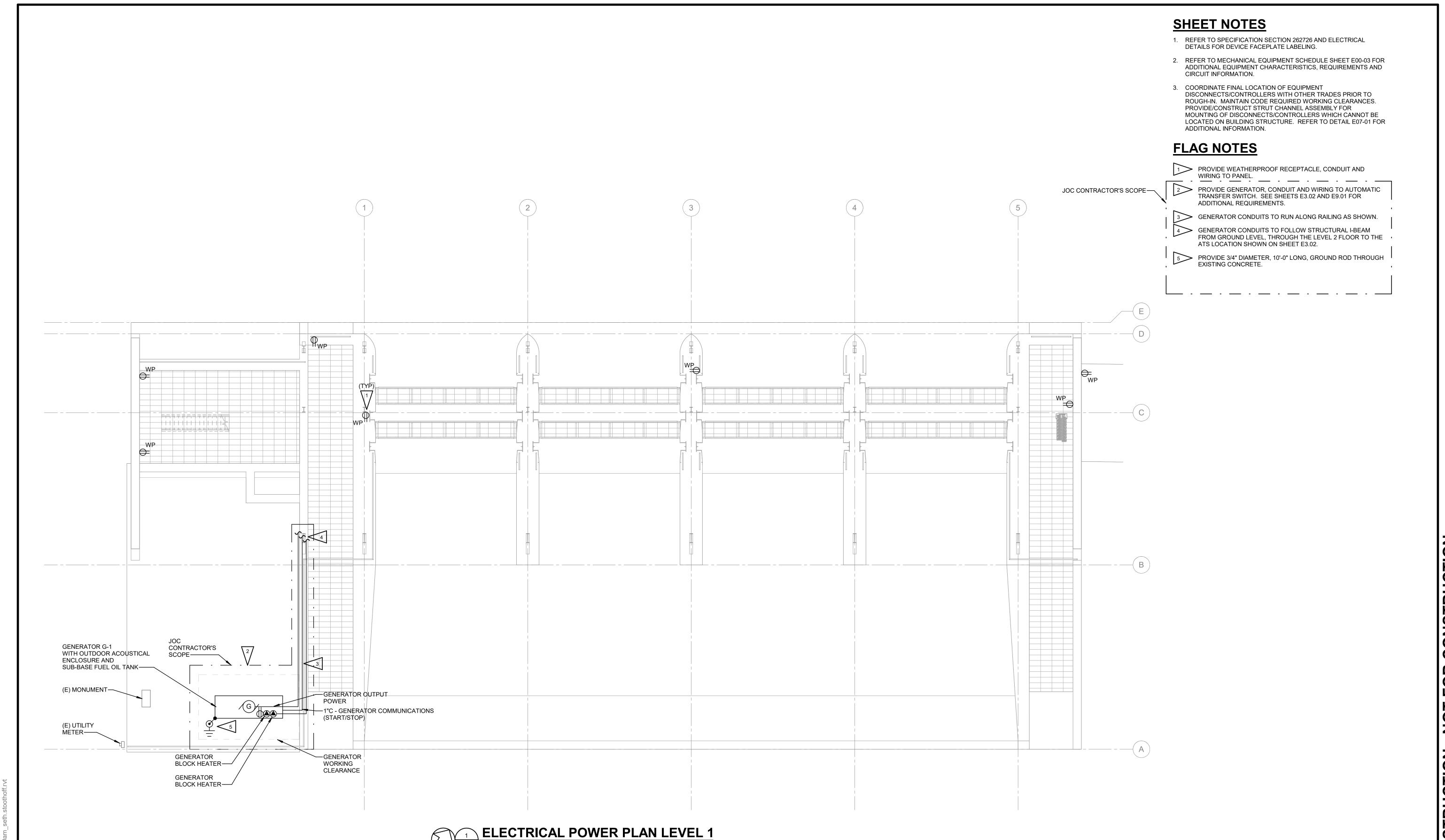
**ELECTRICAL LIGHTING PLAN ROOF** 

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**ISSUANCE** SD SET DD SET 12/20/2023 02/23/2024



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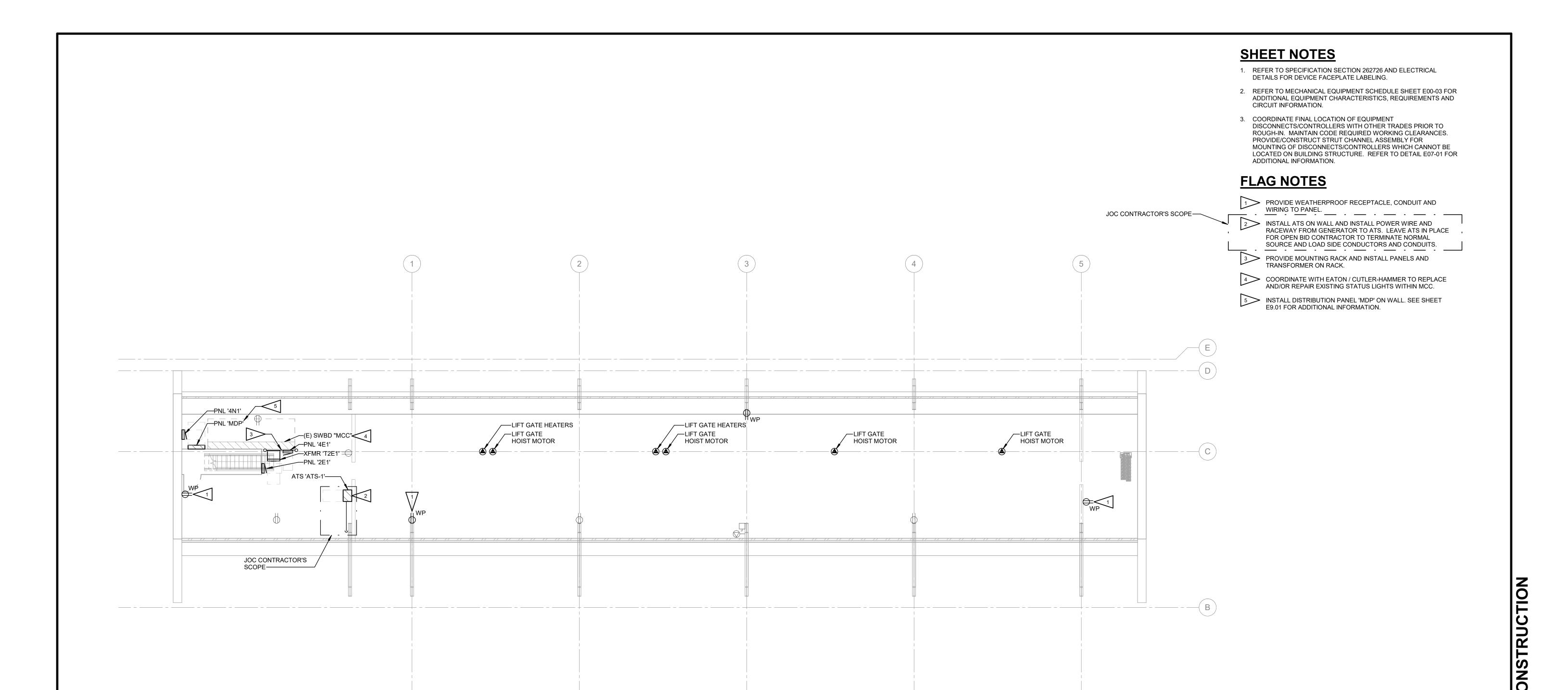
**ZOSEL DAM** OROVILLE, WA

**ELECTRICAL POWER PLAN LEVEL 1** 

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E3.01 SHEET NO.

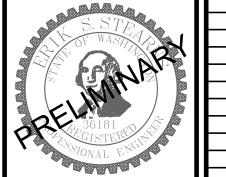
**31** OF



1 ELECTRICAL POWER PLAN LEVEL 2 SCALE: 1/8" = 1'-0"

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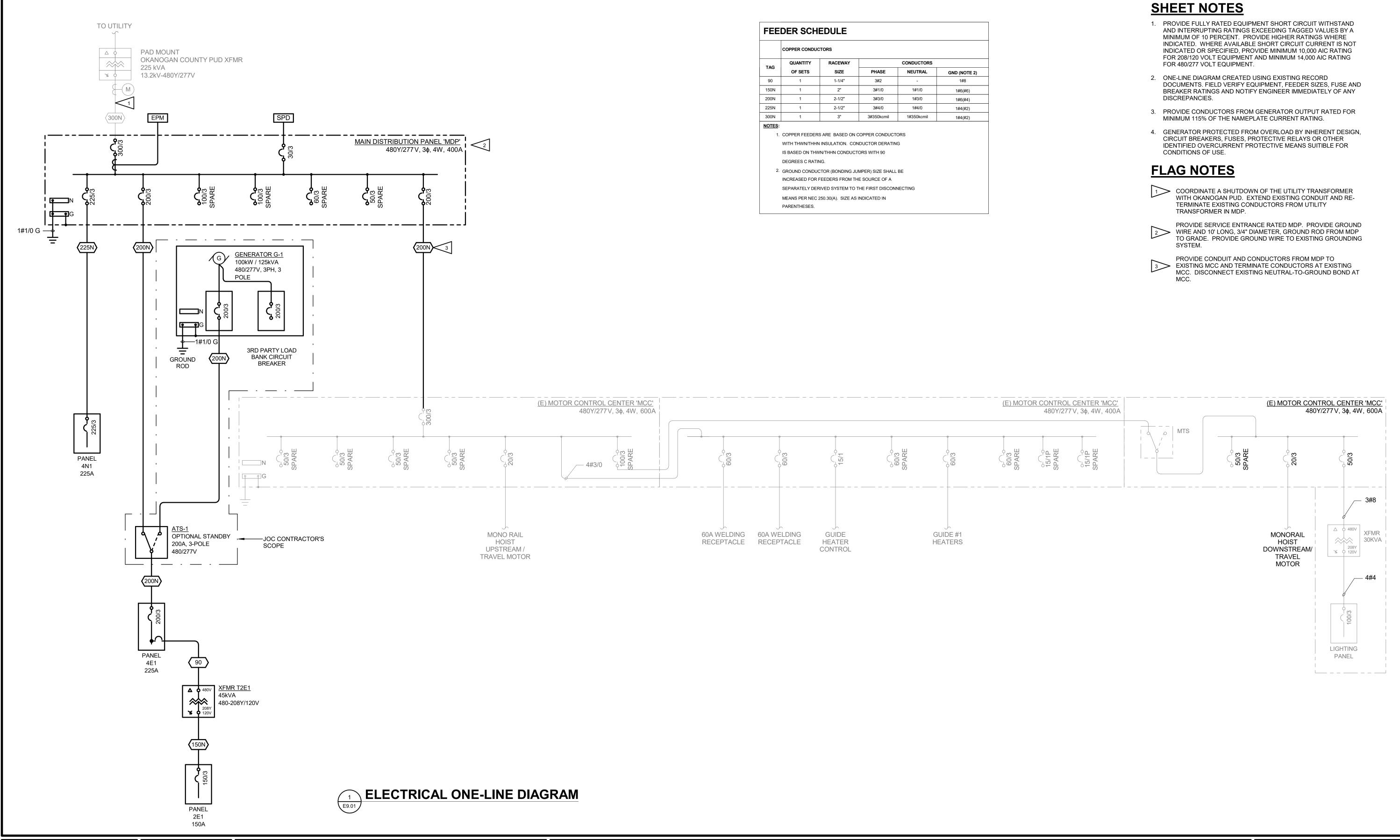
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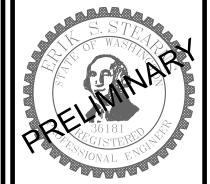
**ZOSEL DAM** OROVILLE, WA

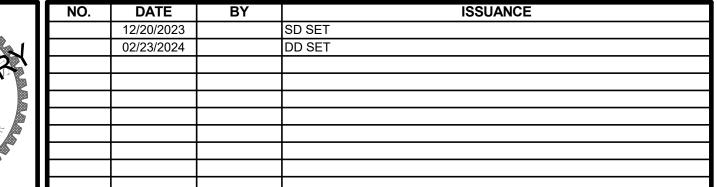
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**ELECTRICAL POWER PLAN LEVEL 2** 



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**ELECTRICAL ONE-LINE DIAGRAM** 

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CONSTRUCTION

- NOT FOR

E9.01 SHEET NO.

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