FOUR RIVERS SANITATION AUTHORITY

SNOW AVENUE PUMP STATION IMPROVEMENTS CIP # 2561 YR 2025

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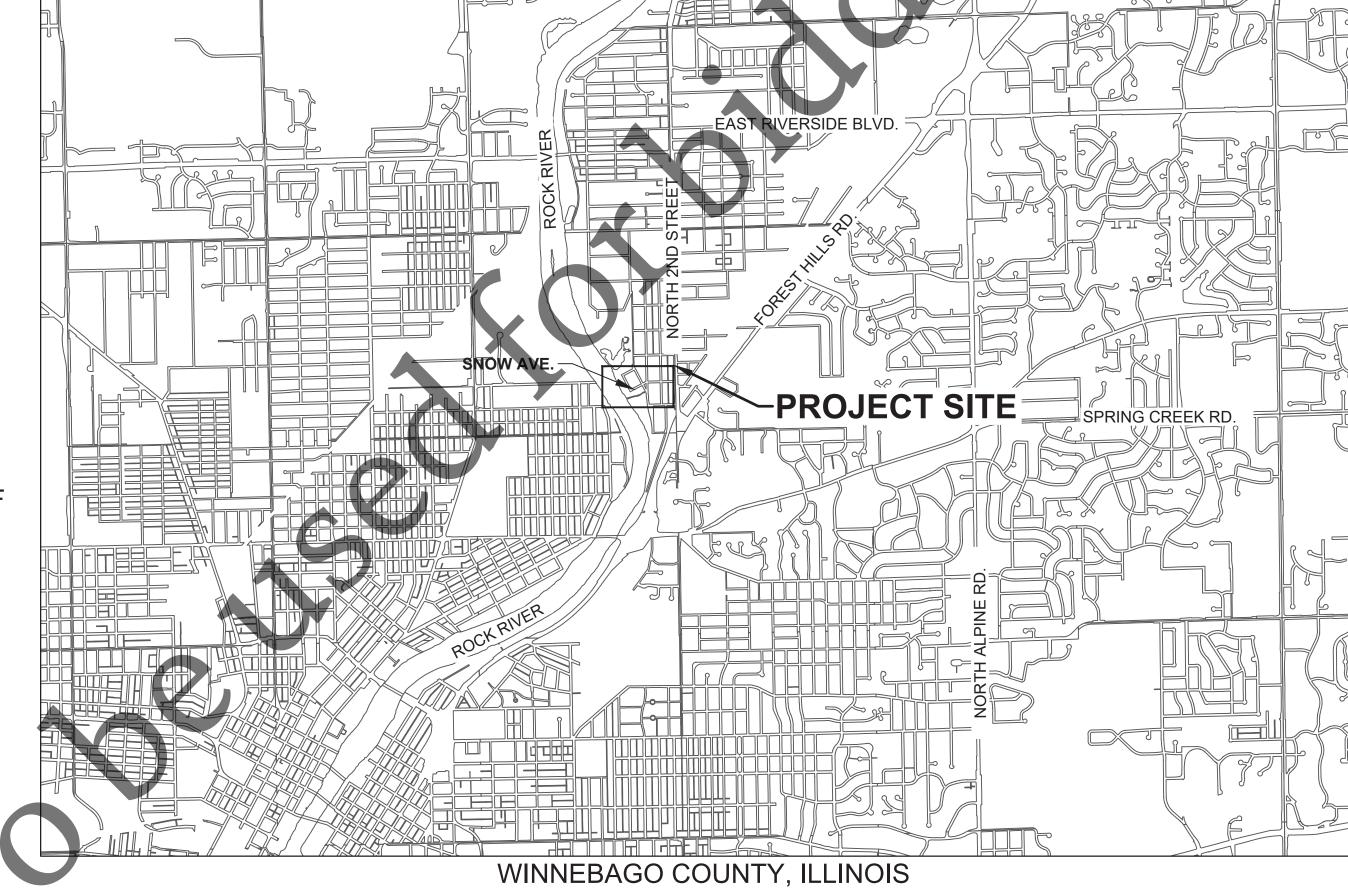
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INDEX OF SHEETS

- CONTROL ROOM AND UPPER SCREEN ROOM

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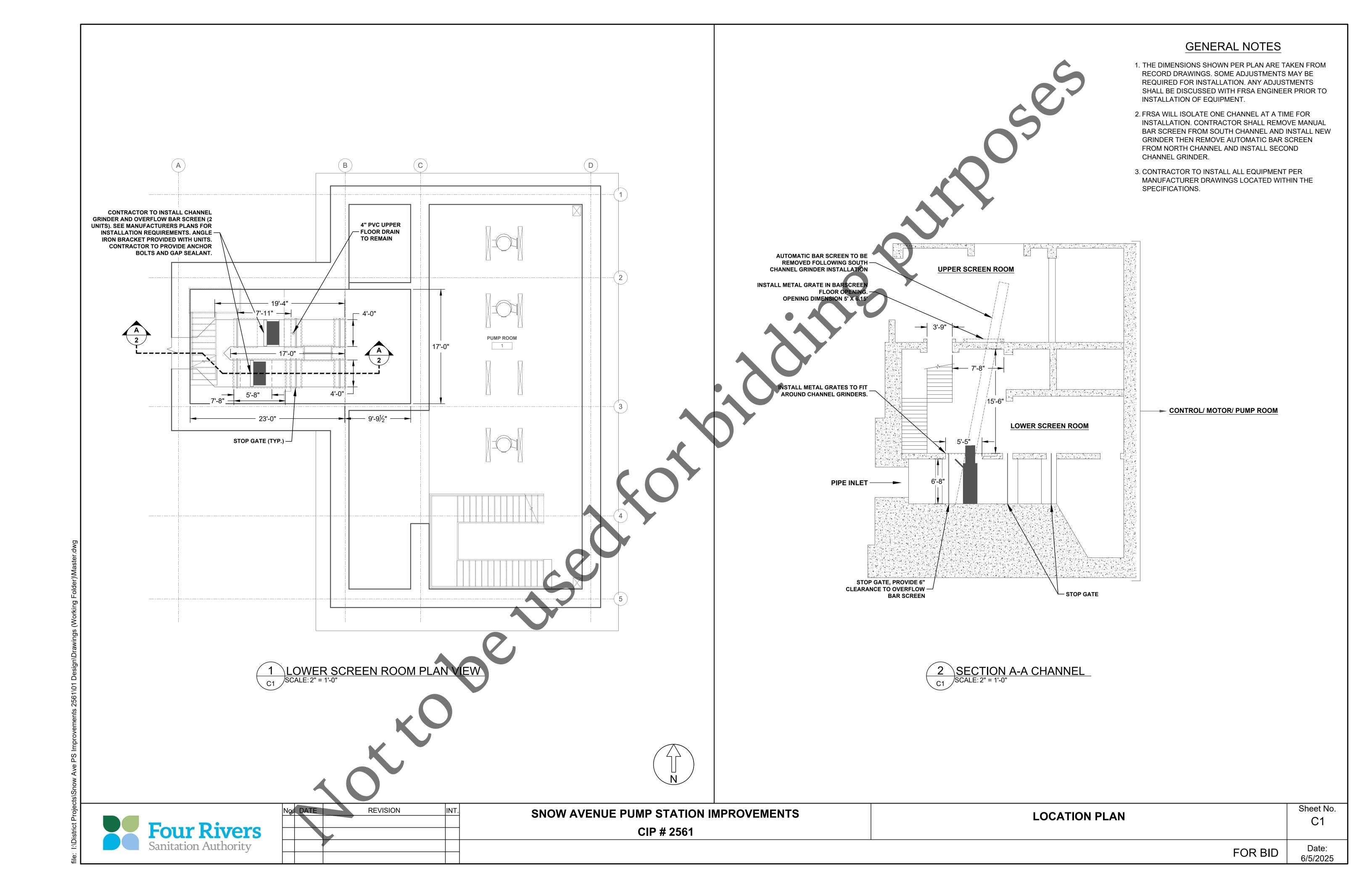


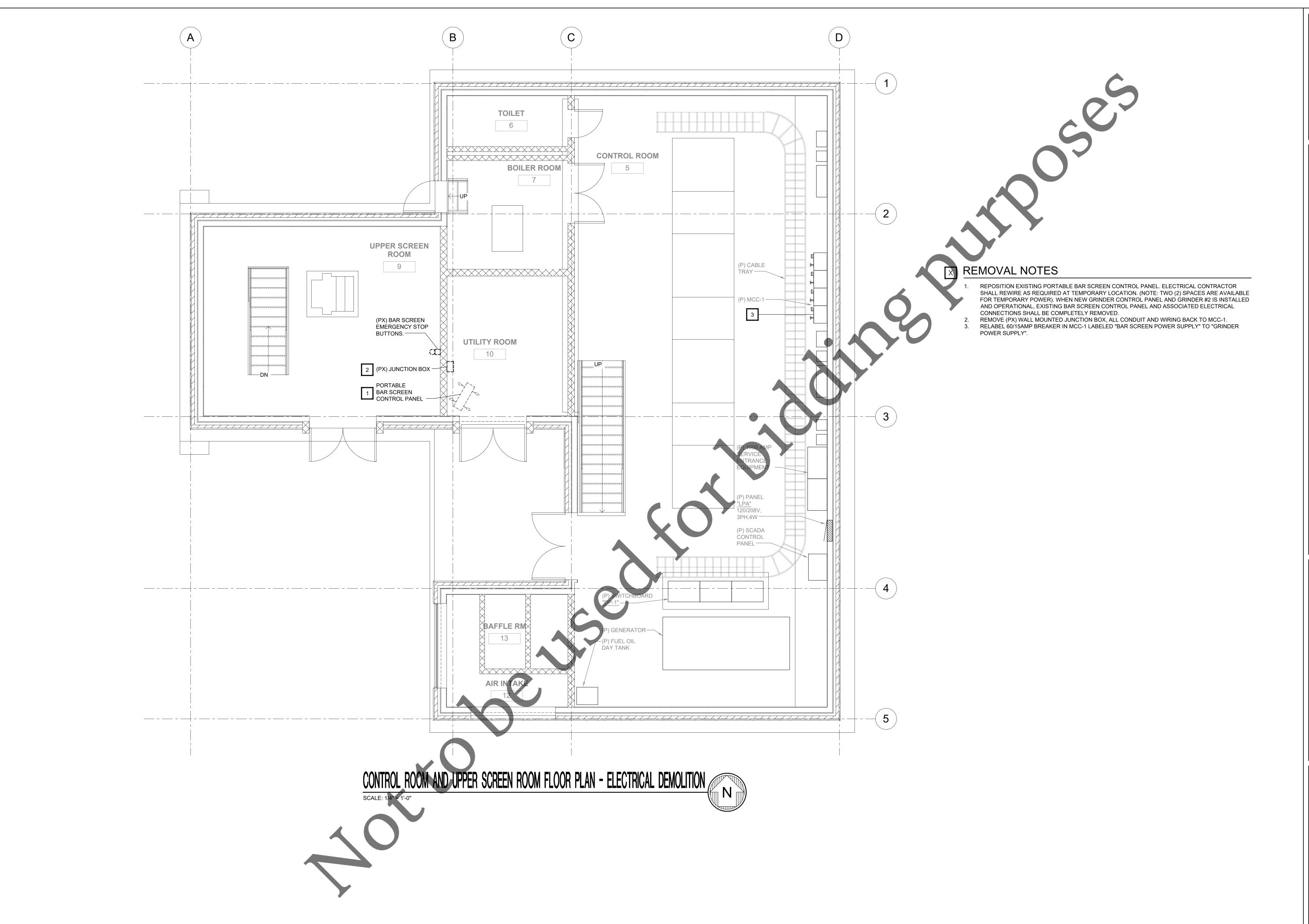


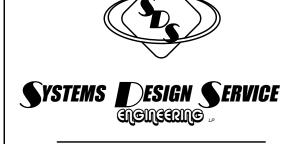
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SNOW AVENUE STATION IMPROVEMENTS Four Rivers Sanitation Authority

No.	Description	Date
1	50% REVIEW	1/30/25
2	90% REVIEW	3/4/25
3	ISSUED FOR CONST.	6/5/25

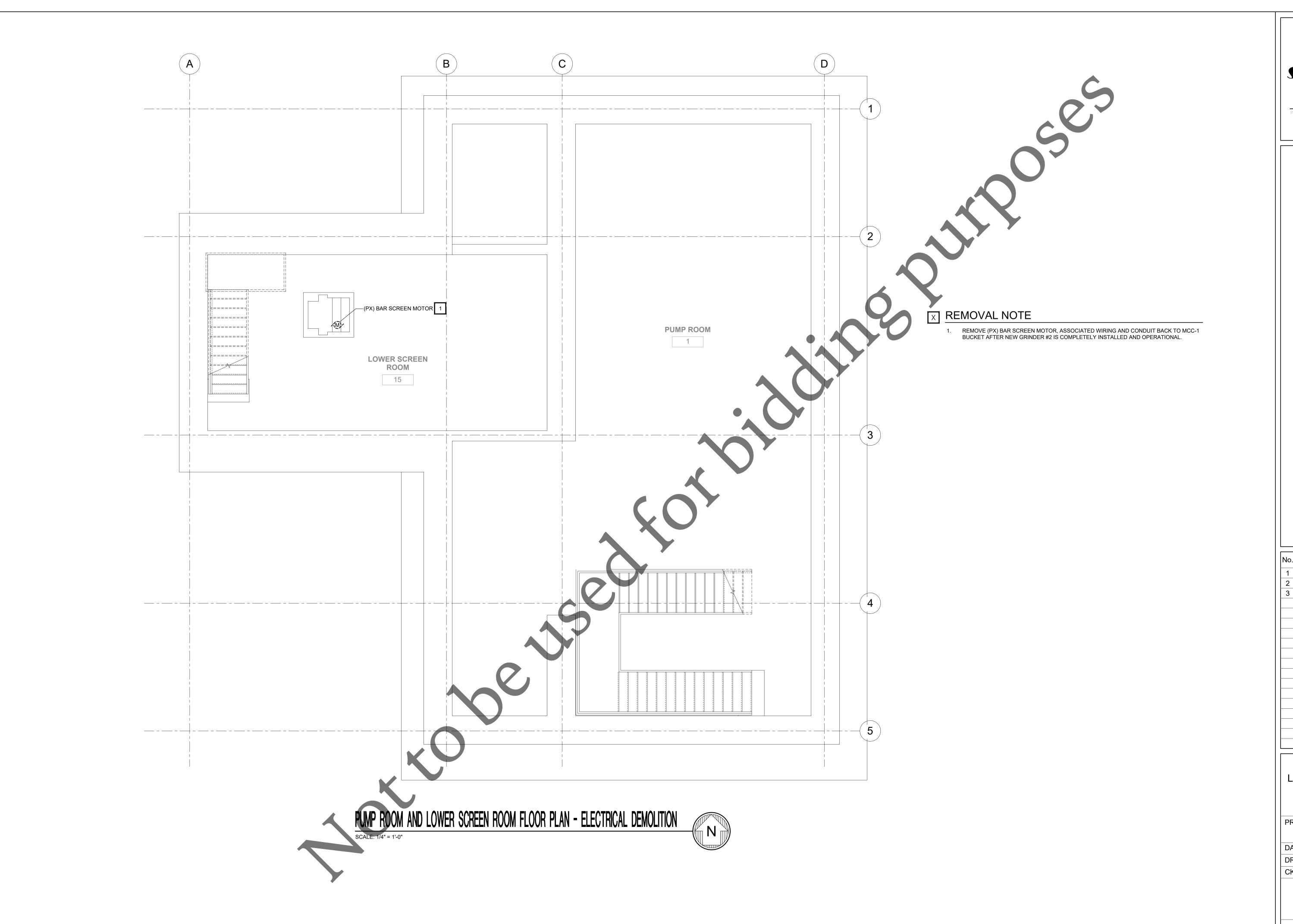
CONTROL ROOM AND
UPPER SCREEN ROOM
ELECTRICAL
DEMOLITION PLAN

PROJECT NUMBER:

FRSA 2561 (SDSE 24-037)

DATE:	5 JUNE 2025
DR BY:	SDS
CK BY:	SDSF

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SNOW AVENUE PUMP STATION IMPROVEMENTS Four Rivers Sanitation Authority

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PUMP ROOM AND LOWER SCREEN ROOM ELECTRICAL DEMOLITION PLAN

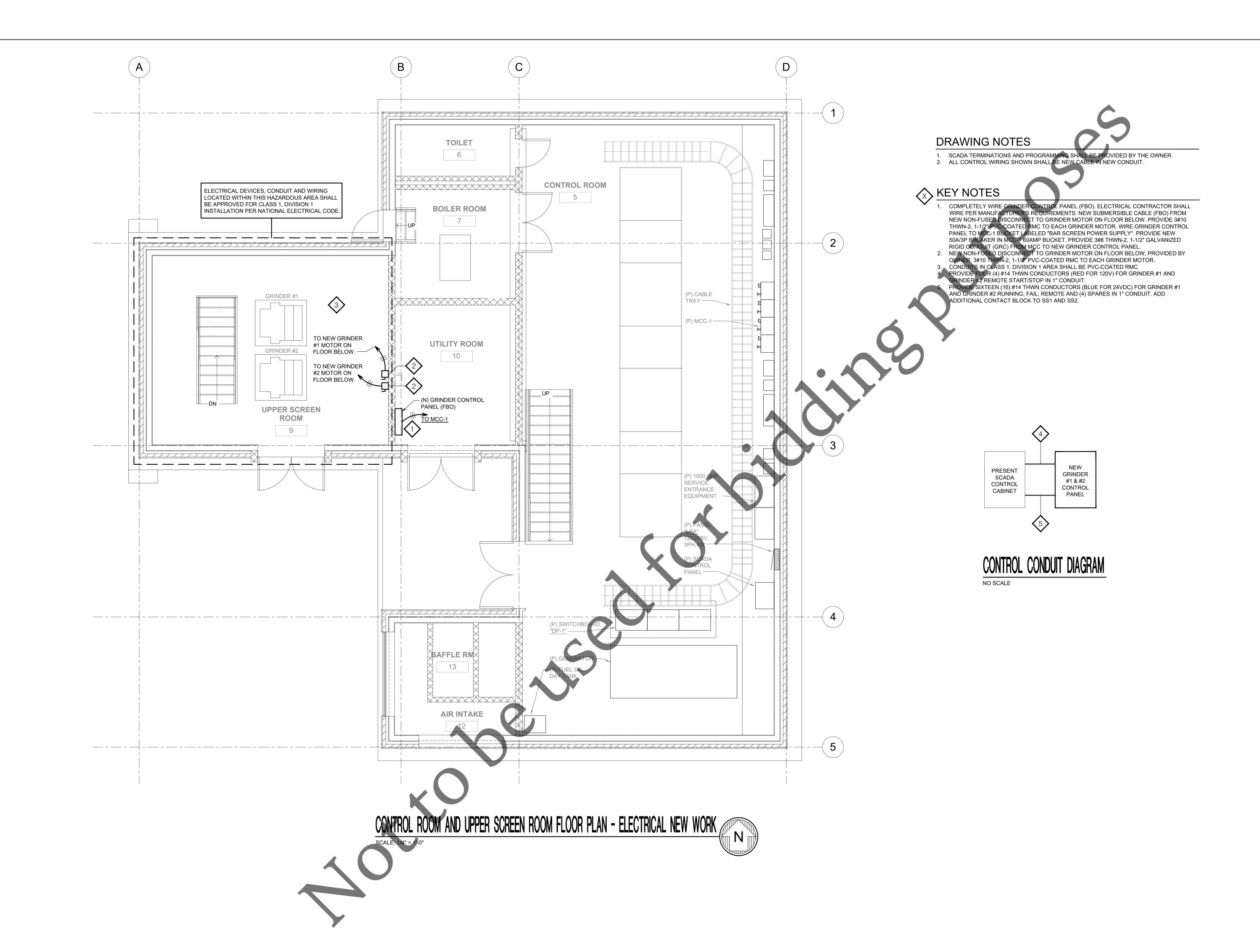
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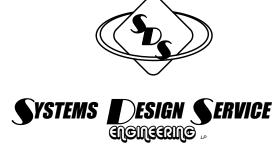
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SNOW AVENUE
PUMP STATION IMPROVEMENTS
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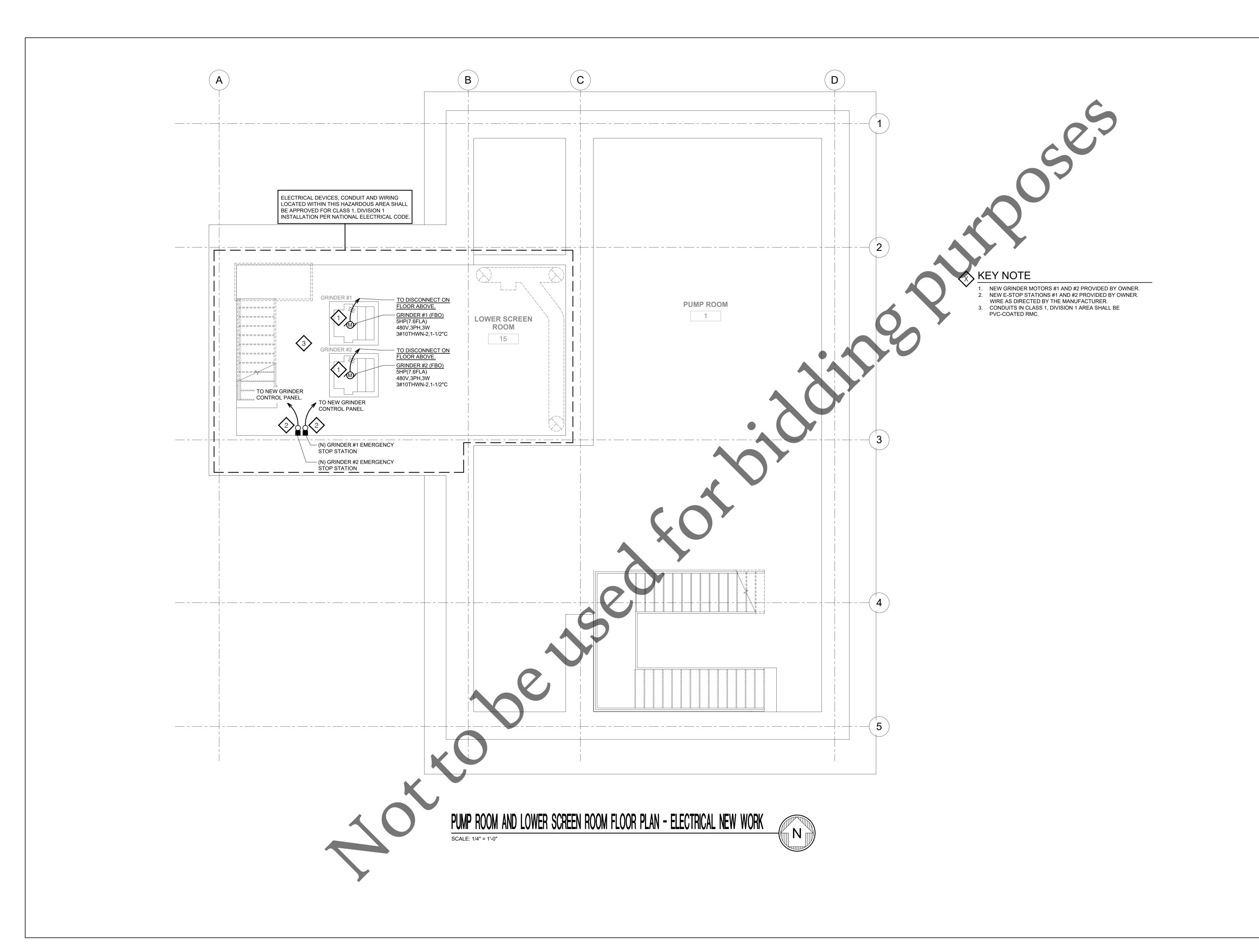
CONTROL ROOM AND UPPER SCREEN ROOM ELECTRICAL NEW WORK PLAN

PROJECT NUMBER

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DATE:	5 JUNE 2025
DR BY:	SDS
CK BY:	SDSE

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PUMP STATION IMPROVEMENTS Four Rivers Sanitation Authority

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PUMP ROOM AND LOWER SCREEN ROOM ELECTRICAL NEW WORK PLAN

PROJECT NUMBER:

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DATE: 5 JUNE 20

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CK BY: SDSE

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PRESENT EQUIPMENT AND DEMOLITION NOTES

- A. WORK SHALL BE COORDINATED SO THAT HEATING, PLUMBING, AND ELECTRICAL SERVICES TO THE PRESENT BUILDING AND ALL LABORATORY TESTING FUNCTIONS WILL NOT BE INTERRUPTED, EXCEPT AS APPROVED BY FRSA OPERATIONS
- B. REMOVED PIPE MUST NOT BE REUSED. REMOVED WIRE SHALL BE REMOVED FROM THE SITE BY CONTRACTOR (PX).
- C. ANY OF ABOVE EQUIPMENT WHICH IS NOT REUSED AND FOLLOWING REMOVED PRESENT EQUIPMENT SHALL BECOME PROPERTY OF CONTRACTOR, AND SHALL BE REMOVED FROM PREMISES BY HIM (PX).

 1. EQUIPMENT SO DESIGNATED ON DRAWINGS.
- D. FOLLOWING PRESENT EQUIPMENT SHALL BE CAREFULLY REMOVED, INTACT, MATCH MARKED, INSOFAR AS IS PRACTICAL, SHALL REMAIN PROPERTY OF OWNER, AND SHALL BE DELIVERED TO OWNER OUTSIDE OF BUILDING IF INDICATED OR AS DIRECTED BY FRSA OPERATIONS (PX-DO).
- 1. EQUIPMENT SO DESIGNATED ON DRAWINGS.
- E. CONTRACTOR SHALL:
- 1. PROVIDE NEW FLOORS UNDER REMOVED PRESENT EQUIPMENT AND WHERE CALLED FOR
- 2. REPAIR FLOORS UNDER AND WALLS ADJACENT TO REMOVED EQUIPMENT, TO MATCH ADJACENT CONSTRUCTION.
- 3. CAP CHASES WHICH ARE NO LONGER REQUIRED AND NEATLY PATCH TO MATCH
- ADJACENT CONSTRUCTION.
- 4. CUT OPENINGS REQUIRED FOR:
- A. HIS WORK;
 B. ADMISSION OF NEW EQUIPMENT
- C. REMOVAL OF PRESENT EQUIPMENT
- D. NEW CONNECTION TO PRESENT CONSTRUCTION.
- 5. PATCH AND REPAIR UNUSED PRESENT HOLES AND OPENINGS, AND THOSE LEFT BY THE REMOVAL OF PRESENT EQUIPMENT AND ADMISSION OF NEW EQUIPMENT.
- 6. PATCH AND REPAIR PRESENT EQUIPMENT, AND BUILDING CONSTRUCTION WHICH HAS NOT BEEN CUT, REMOVED, DISTURBED OR MARRED, AS REQUIRED, TO RESTORE IT TO ORIGINAL CONDITION BEFORE BEING DISTURBED.
- F. UNUSED OPENINGS IN ENCLOSURES, IN CONDUITS, BOXES, CABINETS, AND PANELS SHALL BE CAPPED.
- G. PRESENT PAINTED CONSTRUCTION WHICH IS MARRED SHALL BE REPAIRED SAME AS NEW CONSTRUCTION.
- H. CERTAIN ABBREVIATIONS OR SYMBOLS, WHEN APPLIED TO PRESENT (TO EXISTING) LINE, DEVICE OR EQUIPMENT, SHALL HAVE THE FOLLOWING MEANINGS.
- NEW CONNECTIONS TO PRESENT PIPING, DEVICE WIRING, EQUIPMENT, ETC. INSTALL, TEST, COVER, PAINT, ETC., SAME AS NEW WORK.
- TO REMAIN UNCHANGED, IF CHANGE CANNOT BE AVOIDED DUE TO CONTRACTOR CONVENIENCE CHANGE "P" TO PXR, AT NO INCREASE IN CONTRACT PRICE.
- TO BE COMPLETELY REMOVED, INCLUDING UNNEEDED CONNECTIONS, PIPING, DUCTS, WIRING BASES, ETC., OF EVERY KIND. UNUSED OPENINGS PLUGGED OR CAPPED, TESTED, COVERED, PAINTED SAME AS NEW WORK. OTHER DISTURBED WORK OF EVERY KIND RESTORED, PATCHED, TESTED, COVERED, PAINTED, ETC., TO EQUAL ORIGINAL CONDITION. REMOVED MATERIAL MUST NOT BE REUSED UNLESS OTHERWISE SPECIFIED OR DIRECTED BY ENGINEER.
- PXR SAME AS "PX", EXCEPT REMOVED, CLEANED AND RESTORED TO GOOD OPERATING CONDITION AND REINSTALLED, SAME AS NEW WORK, IN ORIGINAL OR REVISED POSITION. IF RECONDITIONING IS IMPRACTICAL, PROVIDE NEW DEVICE, AS APPROVED BY ENGINEER, AT NO INCREASE IN CONTRACT PRICE.
- PX-DO SAME AS "PX", EXCEPT REMOVED, CLEANED AND RESTORED INTACT, AS FAR AS PRACTICAL, MATCHED MARKED, AND OTHERWISE IDENTIFIED AS REQUIRED AND DELIVERED AS INDICATED AND DIRECTED BY FRSA OPERATIONS.
- PN ETC. COMPLETELY REINSTALL DEVICE, LINE OR EQUIPMENT REMOVED, AT NEW LOCATION, SAME, AS NEW WORK.
- I. WORK SHALL BE COORDINATED WITH ALL OTHER WORK AND PRESENT CONDITIONS, SO THAT:

 1. ELECTRICAL SERVICES TO PRESENT BUILDINGS OR PORTIONS OF BUILDING WILL NOT BE INTERRUPTED DURING PERIODS WHEN THOSE SERVICES ARE NEEDED.
- 2. SPECIAL SYSTEMS SUCH AS FIRE ALARM, SOUND, ETC., OF EVERY KIND TO PRESENT BUILDINGS WILL NOT BE INTERRUPTED DURING WORKING AND/OR OCCUPIED HOURS, EXCEPT AS APPROVED BY FRSA (WARREN ADAM (815) 871-0787).
- J. NEW CONDUIT SERVING NEW AND/OR PRESENT ELECTRICAL DEVICES IN FINISHED PRESENT ROOMS OR SPACES SHALL BE CONCEALED IN FINISHED ROOMS, WHERE POSSIBLE OR SHALL BE RUN IN ADJOINING UNFINISHED ROOMS, SHAFTS, CHAMBERS, ETC., WHERE EXPOSED CONDUIT IS PERMITTED IN FINISHED PRESENT ROOMS BY OWNER IN WRITING, IT SHALL BE WIREMOLD, WITH MATCHING BOXES, RUN INCONSPICUOUSLY AS POSSIBLE, IN STRAIGHT LINES, PARALLEL TO WALLS AND CEILINGS, WITH NEAT BENDS, UNNEEDED BOXES, SWITCHES AND WIRING SHALL BE COMPLETELY REMOVED AND OPENINGS PATCHED. PRESENT FIXTURES, BOXES, WIRING, SWITCHES, ETC. SHALL BE REMOVED AS NOTED UNLESS ANOTHER DISPOSITION IS SHOWN ON DRAWINGS. WHERE SPECIFICALLY APPROVED BY FRSA OPERATIONS IN WRITING, BOXES MAY BE PERMITTED TO REMAIN AND BE PROVIDED WITH NEAT FLUSH COVERS, EXTENDING OVER ENTIRE
- K. UNNEEDED ELECTRICAL FIXTURES, SWITCHES, STARTERS, DEVICES, ETC., SHALL BE COMPLETELY REMOVED; AND CONSTRUCTION PATCHED. NEW CONNECTIONS TO PRESENT EQUIPMENT, SHALL BE MADE, TESTED, COVERED, PAINTED, ETC., SAME AS NEW EQUIPMENT. PRESENT EQUIPMENT, AND OTHER COVERING DISTURBED BY CONTRACTOR SHALL BE REPAIRED TO EQUAL NEW CONDITION AND PAINTED SAME AS NEW COVERING TO MATCH EXISTING FINISH OR AS APPROVED BY OWNER.
- L. WHERE DEVICES ARE OMITTED FROM PRESENT BRANCH CIRCUITS, THE REMAINING DEVICES, ON THE SAME CIRCUIT AND/OR CONDUIT RUN, SHALL BE REWIRED, IF NEEDED AND AS REQUIRED, TO REMAIN ON THEIR RESPECTIVE CIRCUITS AND IN OPERATING CONDITION.

ELECTRICAL SYMBOLS

WALL JUNCTION BOX WITH FLUSH COVERPLATE

EQUIPMENT MOTOR

SAFETY SWITCH (F=FUSED)

CONDUIT RUN CONCEALED (OR PARTIALLY CONCEALED) IN CEILINGS OR WALLS

CONDUIT RUN CONCEALED IN OR UNDER FLOORS

CONDUIT RUN CONCEALED IN OR UNDER FLC CONDUIT RUN EXPOSED, IN STRAIGHT LINES CONDUIT RUN UNDERGROUND CHARACTER MARKS=
NUMBER OF WIRES,
IF NONE ARE SHOWN
TWO ARE REQUIRED

HOMERUN TO PANEL, IN CONDUIT, CONCEALED ARROWS INDICATE NUMBER OF CIRCUITS

ELECTRICAL OUTLET BOXES INSTALLED IN FIRE RATED ASSEMBLIES SHALL COMPLY WITH LATEST IBC, SECTION 712 (NOT LESS THAN 24" O.C.)

ELECTRICAL ABBREVIATIONS

AC	ABOVE COUNTER	LTG	LIGHTING
AFF	ABOVE FINISHED FLOOR	MAX	MAXIMUM
ASC	ABOVE SUSPENDED CEILING	MFG	MANUFACTURER
С	CONDUIT	MIN	MINIMUM
CTC	CLOSE TO CEILING	MOB	MOTOR OUTLET BOX
CTF	CLOSE TO FLOOR	MTD	MOUNTED
CTW	CLOSE TO WALL	NEC	NATIONAL ELECTRICAL CODE
E	EMERGENCY	PH	PHASE (Ø)
FBO	FURNISHED BY OTHERS	PNL	PANEL
FFA	FROM FLOOR ABOVE	SW	SWITCH
FFB	FROM FLOOR BELOW	TFA	TO FLOOR ABOVE
FLA	FULL LOAD AMPS	TFB	TO FLOOR BELOW
GFI	GROUND FAULT INTERRUPTER	UNO	UNLESS NOTED OTHERWISE
HP	HORSEPOWER	V	VOLTS
IWS	IN WALL SPACE	W	WIRE
JB	JUNCTION BOX	WP	WEATHER PROOF
KW	KILOWATTS	WR	WEATHER RESISTANT

GENERAL NOTES APPLY TO ALL SHEETS:

SEE DETAILS AND SCHEDULES ON DRAWINGS AND SPECIFICATIONS FOR MEANING OF ABBREVIATIONS AND ADDITIONAL REQUIREMENTS AND INFORMATION. CHECK ARCHITECTURAL, STRUCTURAL, AND OTHER MECHANICAL AND ELECTRICAL DRAWINGS FOR SCALE, SPACE LIMITATIONS, BEAMS, DOOR SWINGS, WINDOWS, COORDINATION, ADDITIONAL INFORMATION, ETC. AND REPORT ANY DESCREPANCIES, CONFLICTS, ETC. TO FRSA ENGINEERING PRIOR TO SUBMITTING BID.

ALL EQUIPMENT FURNISHED BY OTHERS SHALL BE PROVIDED WITH PROPER MOTOR STARTERS, DISCONNECTS, CONTROLS, ETC. UNLESS SPECIFICALLY NOTED OTHERWISE. THE ELECTRICAL CONTRACTOR SHALL INSTALL AND COMPLETELY WIRE ALL ASSOCIATED EQUIPMENT IN ACCORDANCE WITH THE MANUFACTURER'S WIRING DIAGRAMS AND AS REQUIRED FOR A COMPLETE OPERATING INSTALLATION. ELECTRICAL CONTRACTOR SHALL VERIFY AND COORDINATE ELECTRICAL CHARACTERISTICS AND REQUIREMENTS OF EQUIPMENT PRIOR TO ROUGH-IN OF CONDUIT AND WIRING TO AVOID CONFLICTS.

CONTRACTOR SHALL VERIFY FINAL LOCATIONS AND CEILING TYPES FOR ALL ELECTRICAL EQUIPMENT WITH ARCHITECTURAL REFLECTED CEILING PLAN AND ALL TRADES BEFORE ORDERING OR ROUGH-IN OF EQUIPMENT TO AVOID CONFLICTS.

CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING, INCLUDING CORE DRILLING, SAW CUTTING, ETC., AS REQUIRED TO ACCOMMODATE HIS WORK. CUTTING AND PATCHING AND PAYMENT OF SAID WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR REQUIRING THE DISTURBANCE BUT SAME SHALL BE DONE BY A GENERAL CONTRACTOR. IT SHALL BE THE RESPONSIBILITY OF THE APPROPRIATE ELECTRICAL CONTRACTOR TO GIVE QUANTITIES OF PATCHING REQUIREMENTS TO A GENERAL CONTRACTOR.

CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL AND REPLACEMENT OF PRESENT CEILINGS, LIGHT FIXTURES, DIFFUSERS, DUCTWORK, PIPING, CONDUIT, ETC., AS REQUIRED FOR THE INSTALLATION OF HIS WORK. REMOVAL, REPLACEMENT AND PAYMENT FOR MECHANICAL/PLUMBING ITEMS SHALL BE THE RESPONSIBILITY OF THE APPLICABLE ELECTRICAL CONTRACTOR. REMOVAL AND REPLACEMENT OF PRESENT CEILINGS, ETC., SHALL BE THE RESPONSIBILITY OF CONTRACTOR MAKING THE DISTURBANCE BUT SAME SHALL BE DONE BY A GENERAL CONTRACTOR. IT SHALL BE THE RESPONSIBILITY OF THE APPROPRIATE ELECTRICAL CONTRACTOR TO GIVE QUANTITIES OF REMOVAL/REPLACEMENT REQUIREMENTS TO A GENERAL CONTRACTOR.

SYSTEMS DESIGN SERVICE

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VENUE IPROVEMENTS Ition Authority

Four Rivers Sanitation At

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ELECTRICAL SYMBOLS, NOTES AND ABBREVIATIONS

PROJECT NUMBER:

CK BY:

DATE: 5 JUNE 2025
DR BY: SDS

F5

SCALE: AS NOTED

ELECTRICAL COORDINATION NOTE

THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL ELECTRICAL REQUIREMENTS ASSOCIATED WITH ALL OTHER TRADES THAT INVOLVE THE ELECTRICAL CONTRACTOR TO PROVIDE POWER WIRING FOR DEVICES AND SYSTEMS PROVIDED BY OTHER TRADES. ELECTRICAL CONTRACTOR SHALL COORDINATE ALL ASPECTS OF WORK RELATED TO THESE SYSTEMS AND DEVICES PRIOR TO SUBMITTING FINAL BID. INCLUDE ALL NECESSARY LABOR AND MATERIALS ASSOCIATED WITH OTHER TRADES AS REQUIRED FOR COMPLETE OPERATIONAL SYSTEMS THAT REQUIRE THE ELECTRICAL CONTRACTOR TO WIRE.

GENERAL DEMOLITION NOTE:

FOR ALL WALLS, CEILINGS, FLOORS, ETC. REQUIRED FOR CONSTRUCTION DEMOLITION WORK OR NEW CONSTRUCTION WORK, INCLUDING, BUT NOT LIMITED TO ITEMS SHOWN: REMOVE (PX) AND/OR REMOVE AND RELOCATE (PXN-PN) ALL ELECTRICAL EQUIPMENT, DEVICES, BOXES, CONDUIT, WIRING, ETC., AS REQUIRED, FOR DEMOLITION OF PRESENT CONSTRUCTION AND TO AVOID INTERFERENCE WITH NEW CONSTRUCTION. (VERIFY BEFORE BIDDING TO INCLUDE ALL NECESSARY MATERIALS