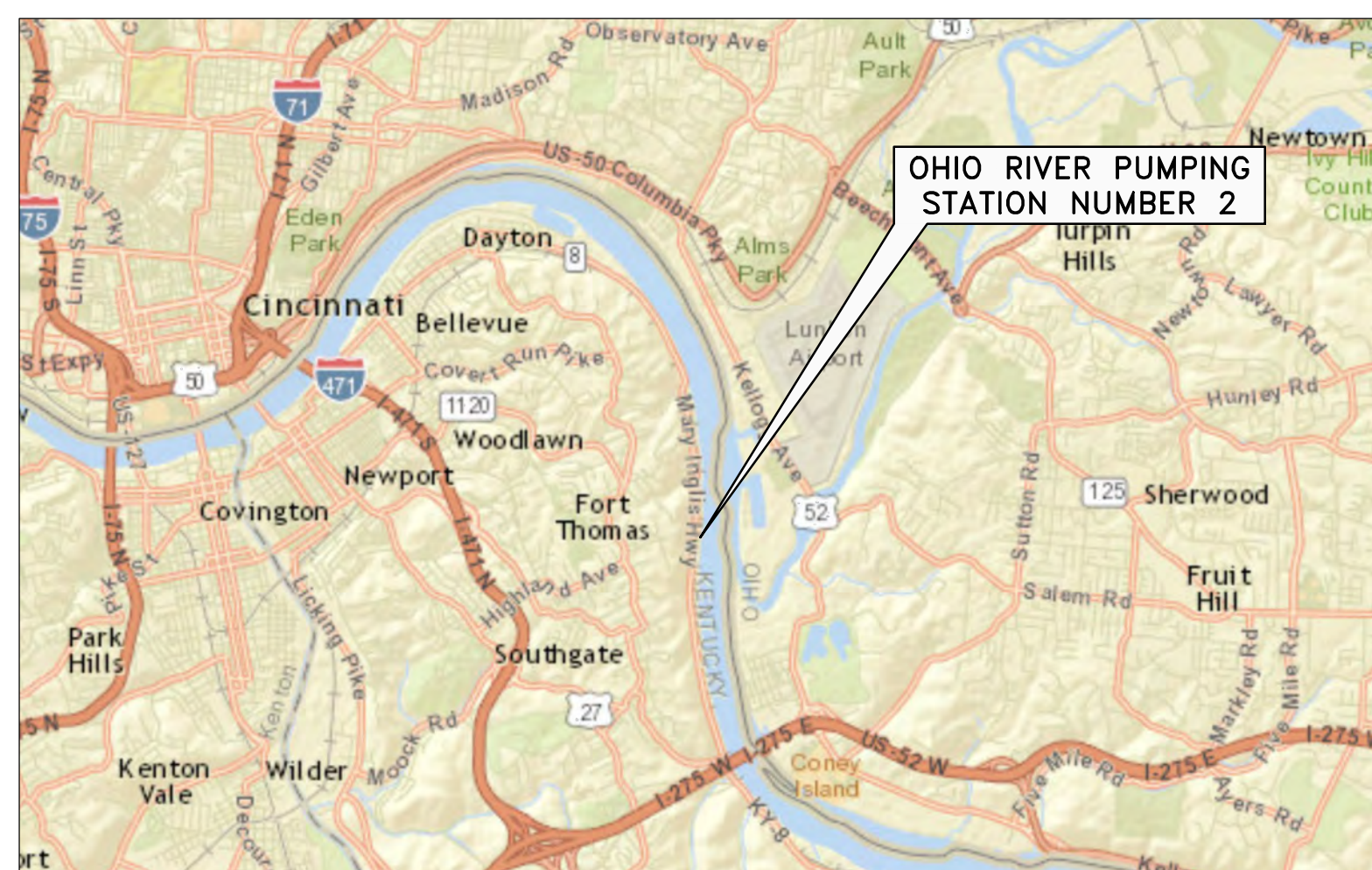


NORTHERN KENTUCKY WATER DISTRICT

OHIO RIVER PUMPING STATION #2 STRUCTURAL REHABILITATION



VICINITY MAP

NO SCALE

RECORD DRAWINGS

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NORTHERN KENTUCKY
WATER DISTRICT
COVER SHEET

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RECORD	2/28/18	KMK

SUBMITTED: _____

APPROVED: _____

DATE: _____

PROJECT MANAGER: FIELD BOOK INFORMATION: TITLE SHEET.DWG - G-01 - PLOTTED 7/26/2018 1:53 PM BY WELLMAN_AARON



ENGINEERS SEAL

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GENERAL NOTES:

- THE CONTRACT DRAWINGS ARE INTENDED TO EXPLAIN THE VARIOUS TYPES OF WORK AND AS SUCH, ARE INTERRELATED. WHILE IT IS INTENDED THAT DISCREPANCIES BETWEEN THE VARIOUS DISCIPLINES' DRAWINGS WILL NOT OCCUR, THERE IS A LIKELIHOOD THAT FIELD ADJUSTMENTS AND CORRECTIONS WILL BE REQUIRED IN THE INTERPRETATION OF THE DOCUMENTS FROM TIME TO TIME.
- THE CONTRACTOR SHALL REFER TO THE DRAWINGS OF THE APPROPRIATE DISCIPLINE WHEN UNDERTAKING THE WORK OF THE DISCIPLINE. HOWEVER, THE CONTRACTOR IS NOT TO DISREGARD OTHER RELATED DRAWINGS IN ORDER TO ENSURE PROPER COORDINATION BETWEEN DISCIPLINES. IN THE EVENT OF DISCREPANCIES BETWEEN ANY ELEMENTS OF THE WORK, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND REQUEST A CLARIFICATION.
- IT IS THE INTENT OF THE CONTRACT DRAWINGS TO PROVIDE DETAILED GUIDANCE AS TO WHAT MUST BE CONSTRUCTED. HOWEVER, THE MEANS AND METHODS OF CONSTRUCTION IS THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE ENTIRE SET OF CONTRACT DOCUMENTS PRIOR TO UNDERTAKING CONSTRUCTION IN ANY AREA SO AS TO ASSURE THEMSELVES TO THE COMPLETENESS AND CORRELATION OF THE WORK TO BE PERFORMED.
- THE CONTRACTOR SHALL BE REQUIRED TO VISIT THE SITE OF THE WORK PRIOR TO PREPARING A BID IN ORDER TO UNDERSTAND THE DIFFICULTIES ATTENDANT TO THIS PROJECT FROM THE STANDPOINT OF THE FOLLOWING:
 - MAINTAINING THE OWNER'S ABILITY TO USE THE FACILITY DURING CONSTRUCTION
 - PUBLIC SAFETY RELATED TO ON AND OFF-SITE TRAFFIC AND THE USAGE OF THE PLANT BY PERSONNEL
 - EXISTING STRUCTURES, ABOVE AND BELOW GROUND
 - UNDERGROUND AND ABOVE GROUND UTILITIES

THE CONTRACTOR SHALL REVIEW AND BECOME FAMILIAR WITH ALL SECTIONS OF THE CONTRACT SPECIFICATIONS. WHENEVER A CONFLICT OCCURS BETWEEN THE REQUIREMENTS SHOWN ON THE CONTRACT DRAWINGS, THOSE SPECIFIED, OR THOSE INDICATED BY ACTUAL FIELD CONDITIONS, THE CONTRACTOR SHALL ASSUME THAT THE MOST SEVERE REQUIREMENT WILL BE IMPOSED AND PREPARE THE BID ACCORDINGLY.
- CERTAIN UNFORESEEN CONDITIONS MAY OCCUR AT ANY POINT AND SUCH CONDITIONS MAY REQUIRE CLOSE INTERACTION BETWEEN THE OWNER, THE ENGINEER, THE CONTRACTOR AND THE VARIOUS REGULATORY AGENCIES IN ORDER TO RESOLVE PROBLEMS THAT MAY OCCUR AS A RESULT OF THESE CERTAIN UNFORESEEN CONDITIONS. EVERY EFFORT WILL BE MADE TO RESOLVE THESE PROBLEMS IN A TIMELY MANNER CONSISTENT WITH GOOD ENGINEERING PRACTICES AND ECONOMIES OF BOTH TIME AND MONEY TO THE SATISFACTION OF ALL PARTIES CONCERNED.
- IT IS THE INTENTION OF THE CONTRACT DOCUMENTS TO FULLY SHOW THE REMOVAL/DEMOLITION OF EXISTING CONSTRUCTION, WHETHER ABOVE OR BELOW GRADE, WHENEVER SUCH EXISTING CONSTRUCTION IS WITHIN THE WORK AREA.
- THE CONTRACTOR SHALL ESTABLISH PERMANENT HORIZONTAL AND VERTICAL BASE LINES IN THE FIELD AND PLACE MONUMENTS PRIOR TO THE START OF CONSTRUCTION FOR LAYOUT PURPOSES.
- THE ONLY ACCESS TO THE SITE IS AS SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL MAINTAIN THIS ACCESS IN A NEAT MANNER AT ALL TIMES. THE CONTRACTOR SHALL MAINTAIN THE INGRESS AND EGRESS TO THE SITE SO AS NOT TO DISRUPT THE NORMAL DAILY OPERATIONS OF THE FACILITY AND ITS PERSONNEL. THE OWNER MAKES PERIODIC VISITS TO THE FACILITY DURING NORMAL BUSINESS HOURS MONDAY THROUGH FRIDAY, BUT MAY HAVE REASON TO ACCESS THE FACILITY AT ANY TIME.
- THE EXISTING EQUIPMENT, PIPING, ETC., TO BE REMOVED SHALL BE INSPECTED BY THE OWNER AND/OR ENGINEER WHO MAY THEN DECIDE WHETHER OR NOT TO SALVAGE SAID ITEMS. THE CONTRACTOR SHALL DELIVER ALL SALVAGED ITEMS TO AN ON-SITE LOCATION DESIGNATED BY THE OWNER. IF THE OWNER DECIDES THAT THE ITEMS ARE NOT SALVAGEABLE, THE CONTRACTOR SHALL DISPOSE OF THE ITEMS OFF-SITE AT NO ADDITIONAL COST TO THE OWNER.
- ONSITE SPACE FOR TRAILER, EQUIPMENT, STORAGE, STOCKPILING, AND OTHER TEMPORARY CONSTRUCTION ACTIVITIES IS LIMITED. SPACE REQUIRED FOR TEMPORARY CONSTRUCTION ACTIVITIES SHALL BE RESTORED TO ORIGINAL CONDITION. CONTRACTOR LAYDOWN AREA IS SHOWN ON DRAWING G-03.
- THE CONTRACTOR SHALL ADEQUATELY PROTECT ALL EXISTING EQUIPMENT AND STRUCTURES DURING THE INSTALLATION OF THE NEW WORK.
- ALL LOCATIONS, DIMENSIONS, AND ANGLES OF NEW FACILITIES TO BE FIELD VERIFIED BY THE CONTRACTOR. MINOR ADJUSTMENTS MAY BE REQUIRED TO AVOID POSSIBLE CONFLICTS WITH EXISTING AND/OR NEW FACILITIES. THIS WORK SHALL BE INCLUDED IN THE LUMP SUM BID PRICE.
- THE CONTRACTOR MUST COORDINATE ALL ASPECTS OF THE WORK TO ENSURE THAT THE PUMPING STATION REMAINS IN OPERATION. THIS MAY INCLUDE, BUT NOT BE LIMITED TO, TEMPORARY POWER AND PUMPING FACILITIES AS NECESSARY.
- THE CONTRACTOR IS CAUTIONED THAT THE SITE IS PRONE TO FLOODING AT VARIOUS TIMES. THE CONTRACTOR SHALL BE REQUIRED TO PROTECT THEIR EQUIPMENT/MATERIALS AND THE NEW WORK AGAINST DAMAGE FROM UPLIFT DUE TO HIGH WATER LEVELS. APPROXIMATE 100YR FLOOD EL. 501.0±.
- ANY DAMAGE TO EXISTING BUILDINGS, WALLS, STEPS, BITUMINOUS AREAS, AND SPACE OUTSIDE OF THE CONSTRUCTION ZONE SHALL BE REBUILT USING NEW MATERIALS AND CONSTRUCTED TO CONFORM TO THE EXISTING IN SIZE AND PHYSICAL PROPERTIES.
- TO ENSURE PROPER COORDINATION, THE CONTRACTOR IS ADVISED TO REVIEW THE CONTRACT DRAWINGS AND SPECIFICATIONS PRIOR TO INITIATION OF CONSTRUCTION IN ANY AREA. IN THE EVENT OF CONSTRUCTION DISCREPANCIES OR CONFLICTS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY FOR CLARIFICATION.
- SIZE OF FITTINGS SHOWN ON THE PLANS SHALL CORRESPOND TO ADJACENT STRAIGHT RUN OF PIPE, UNLESS OTHERWISE INDICATED. TYPE OF JOINT AND FITTING MATERIAL SHALL BE THE SAME AS SHOWN FOR ADJACENT STRAIGHT RUN OF PIPE UNLESS OTHERWISE INDICATED.

EQUIPMENT DESIGNATIONS

SYMBOLS		MARK	TYPE
PROCESS DRAWINGS	FLOW DIAGRAMS		
		G	GATE VALVE
		K	KNIFE GATE VALVE
		BF	BUTTERFLY VALVE
		WBF	WAFER BUTTERFLY VALVE
		P	PLUG VALVE
		GL	GLOBE VALVE
		B	BALL VALVE
			CHECK VALVE TYPES
		C	STANDARD CHECK VALVE
		CC	CUSHION CHECK VALVE
		SC	SILENT CHECK VALVE
		RC	RADIAL CHECK VALVE
		DC	DOUBLE VANE CHECK VALVE
		BC	BALL CHECK VALVE
			CONTROL VALVE TYPES
		SEC	ELECTRIC CHECK VALVE (SEWAGE)
		WEC	ANGLE OR GLOBE VALVE (WATER)
		CV	CONTROL VALVE
		BCV	BALL CONTROL VALVE
		CV	CONE VALVE
		S	SLUICE GATE (WITH STANDARD WALL THIMBLE)
		F	FABRICATED SLIDE GATE
		SP	STOP PLATE (SPECIFIED UNDER SLIDE GATES)

JOINT DESIGNATIONS

SYMBOL	MARK	TYPE
	FJ	FLANGED JOINT
	MJ	MECHANICAL JOINT
	SJ	SCREWED JOINT
	POJ	PUSH ON JOINT
	STC	SLEEVE TYPE COUPLING
	GC	GROOVED COUPLING
	WJ	SHOP WELDED JOINT (STEEL PIPE)
	FWJ	FIELD WELDED JOINT (STEEL PIPE)
	STJ	SOCKET TYPE JOINT (FRP OR PVC PIPE)
	EJ	EXPANSION JOINT
	BF	BLIND FLANGE
	FA	FLANGE ADAPTER
	PE	PLAIN END

OPERATORS

(SCHEMATICS ONLY)

SYMBOL	TYPE
OPEN - SHUT SERVICE	
	PNEUMATIC
	ELECTRIC
	HYDRAULIC
	SOLENOID

PROJECT MANAGER: - FIELD BOOK INFORMATION: - C:\PWL_WORK2\0618278\GEN-PLTS- GENERAL NOTES.DWG - G-02 - PLOTTED 7/26/2018 2:00 PM BY WELLMAN, AARON

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Franklin, KY 40502	
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FAX: 513.381.3243	
www.wadeftrim.com	
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NORTHERN KENTUCKY WATER DISTRICT	GENERAL NOTES
----------------------------------	---------------

REVISIONS	DATE	DESCRIPTION	BY

PROJECT MANAGER: W. J. WILSON, P.E., W. J. WILSON & ASSOCIATES, INC., 1110 W. WILSON BLVD., SUITE 200, CHARLESTON, WV 25302
 FIELD BOOK INFORMATION: W. J. WILSON, P.E., W. J. WILSON & ASSOCIATES, INC., 1110 W. WILSON BLVD., SUITE 200, CHARLESTON, WV 25302
 DATE: 7/29/2018 2:50 PM BY: WELLMAN, AARON



PROPERTY SITE PLAN



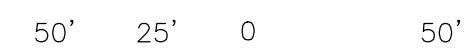
SCALE: 1" = 100'-0"

SITE PLAN NOTES

1. THE OHIO RIVER PUMPING STATION NUMBER 2 (ORPS2) IS THE PROPERTY OF THE NORTHERN KENTUCKY WATER DISTRICT (NKWD), AND ACCESS ONTO THE PROPERTY IS BY AUTHORIZED PERSONNEL ONLY. ALL EXISTING PAVEMENT, TREES, VEGETATION, FENCING AND OTHER SITE RELATED APPURTENANCES SHALL REMAIN UNLESS SPECIFICALLY NOTED FOR REMOVAL. DAMAGE TO THE EXISTING SITE WILL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
2. MARY INGLES HIGHWAY, OR KENTUCKY STATE ROUTE 8, IS UNDER THE JURISDICTION OF THE KENTUCKY TRANSPORTATION CABINET. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING THE NECESSARY PERMITS AND/OR APPROVALS FOR THE TRANSPORT OF ANY MATERIALS OR EQUIPMENT NECESSARY TO COMPLETE THE WORK.
3. THE EXISTING CSX RAILROAD (CSX) CROSSING AT THE SITE DOES NOT CONTAIN WARNING LIGHTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH CSX RELATIVE TO CROSSING THE TRACKS WITH MATERIALS AND/OR EQUIPMENT DURING THE PROGRESS OF THE WORK. THE CONTRACTOR SHALL NOT ALLOW VEHICLES TO REMAIN ON THE TRACKS WITHOUT THE APPROVAL OF CSX. THE CONTRACTOR SHALL STORE MATERIALS AND EQUIPMENT AWAY FROM THE CROSSING AND RAILROAD RIGHT-OF-WAY TO PROVIDE SUFFICIENT LINE OF SIGHT AT THE CROSSING. CSX CAN BE CONTACTED AT (800) 232-0144, REFERENCE RAILROAD CROSSING 229434A.
4. A LAYDOWN AREA IS AVAILABLE ONSITE TO THE CONTRACTOR FOR THE TEMPORARY STORAGE OF MATERIALS AND/OR EQUIPMENT. THE CONTRACTOR MAY IMPROVE THIS AREA TO SUIT, BUT MUST RETURN THE AREA TO PRE-CONSTRUCTION CONDITION. THE CONTRACTOR WILL PROVIDE ANY SOIL EROSION AND SEDIMENTATION CONTROL DEVICES, AS REQUIRED, TO OBTAIN A PERMIT FROM THOSE JURISDICTIONS HAVING REGULATORY AUTHORITY. COSTS ASSOCIATED WITH OBTAINING A SOIL EROSION CONTROL PERMIT ARE THE CONTRACTOR'S RESPONSIBILITY. THE CONTRACTOR IS RESPONSIBLE FOR SECURING THE MATERIALS AND/OR EQUIPMENT. NKWD IS NOT RESPONSIBLE FOR LOST, STOLEN OR DAMAGED ITEMS WHILE STORED ONSITE. THE CONTRACTOR MUST CONTINUE TO MAKE THE EXISTING PARKING LOT AVAILABLE TO NKWD PERSONNEL.
5. THE EXISTING SECURITY FENCE AND ELECTRICALLY ACTUATED SLIDE GATE MUST REMAIN AT ALL TIMES. THE CONTRACTOR WILL BE PROVIDED WITH ACCESS TO THE GATE AND PUMPING STATION, BUT THE FACILITY MUST REMAIN SECURE AT ALL TIMES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THE FACILITY IS PROPERLY SECURED AT THE END OF EACH WORK DAY.
6. THE EXISTING BRIDGE CONNECTING THE ORPS2 WITH THE RIVER BANK HAS AN H20-44 TRUCK LOAD RATING. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THIS LOAD LIMIT IS NOT EXCEEDED. THE CONTRACTOR SHALL NOT STORE MATERIALS OR EQUIPMENT ON THE ACCESS BRIDGE.
7. BECAUSE THE OHIO RIVER IS AN ACTIVE TRANSPORTATION ROUTE, THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND MAINTAINING ANY NECESSARY PERMITS/APPROVALS FOR WORK WITHIN THE RIVER AND THE POTENTIAL IMPACT TO RIVER TRAFFIC.

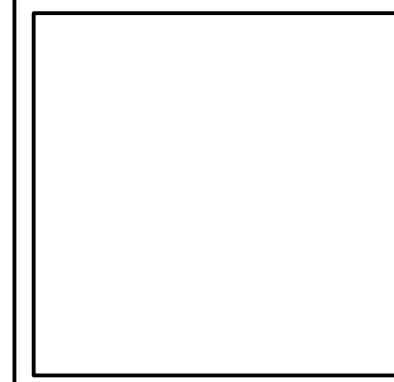


PROJECT SITE PLAN



SCALE: 1" = 50'-0"

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**NORTHERN KENTUCKY
 WATER DISTRICT**
 SITE PLAN

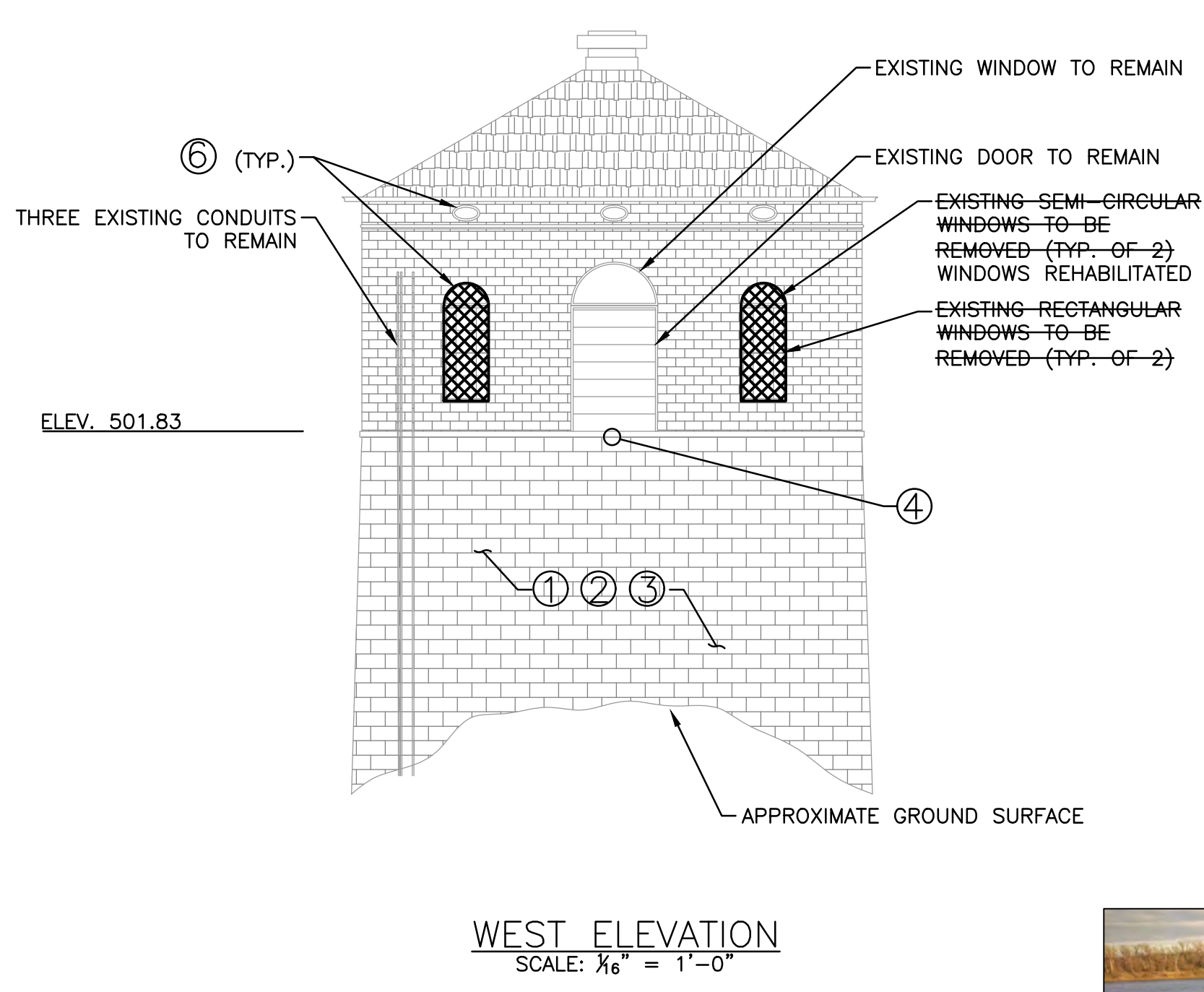
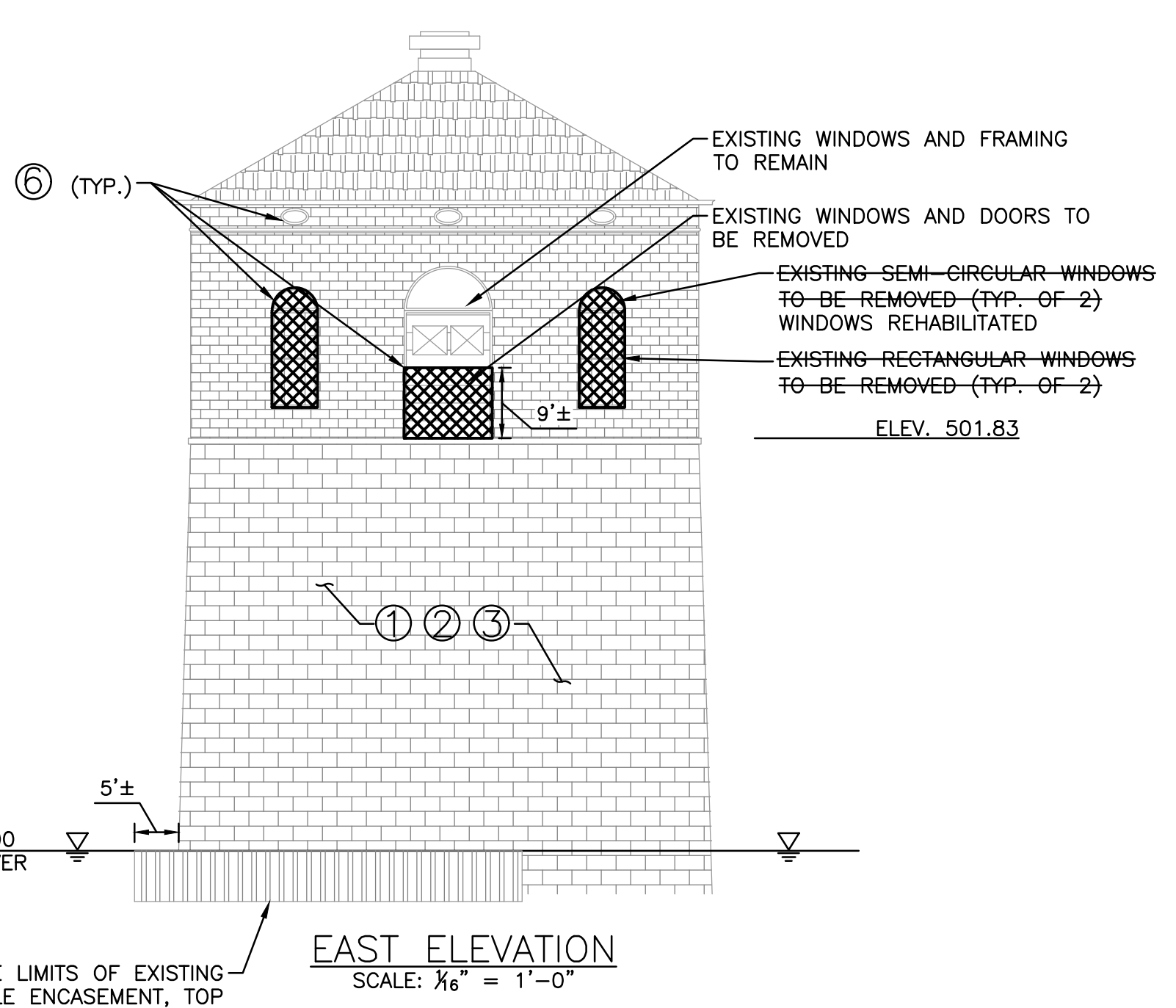
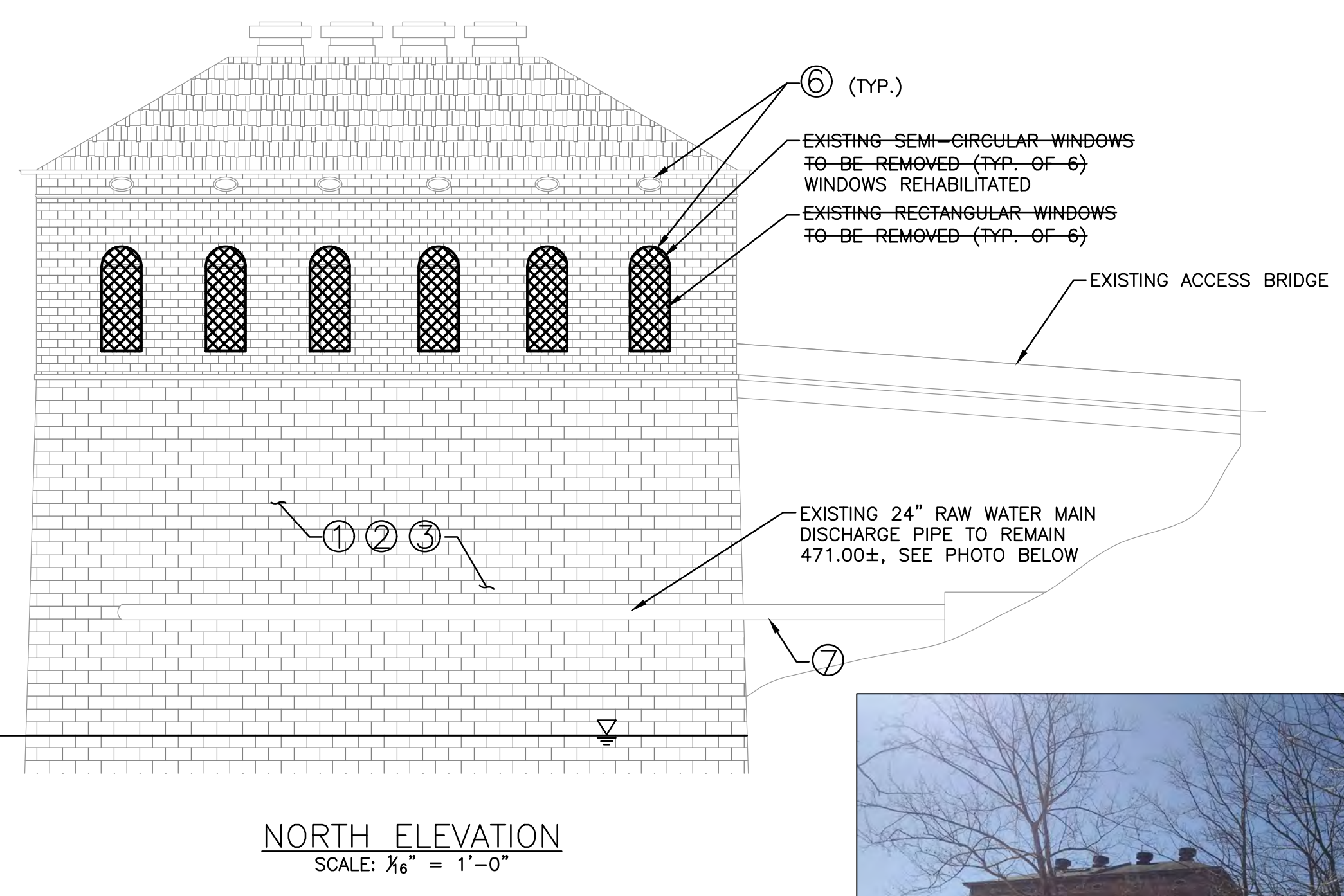
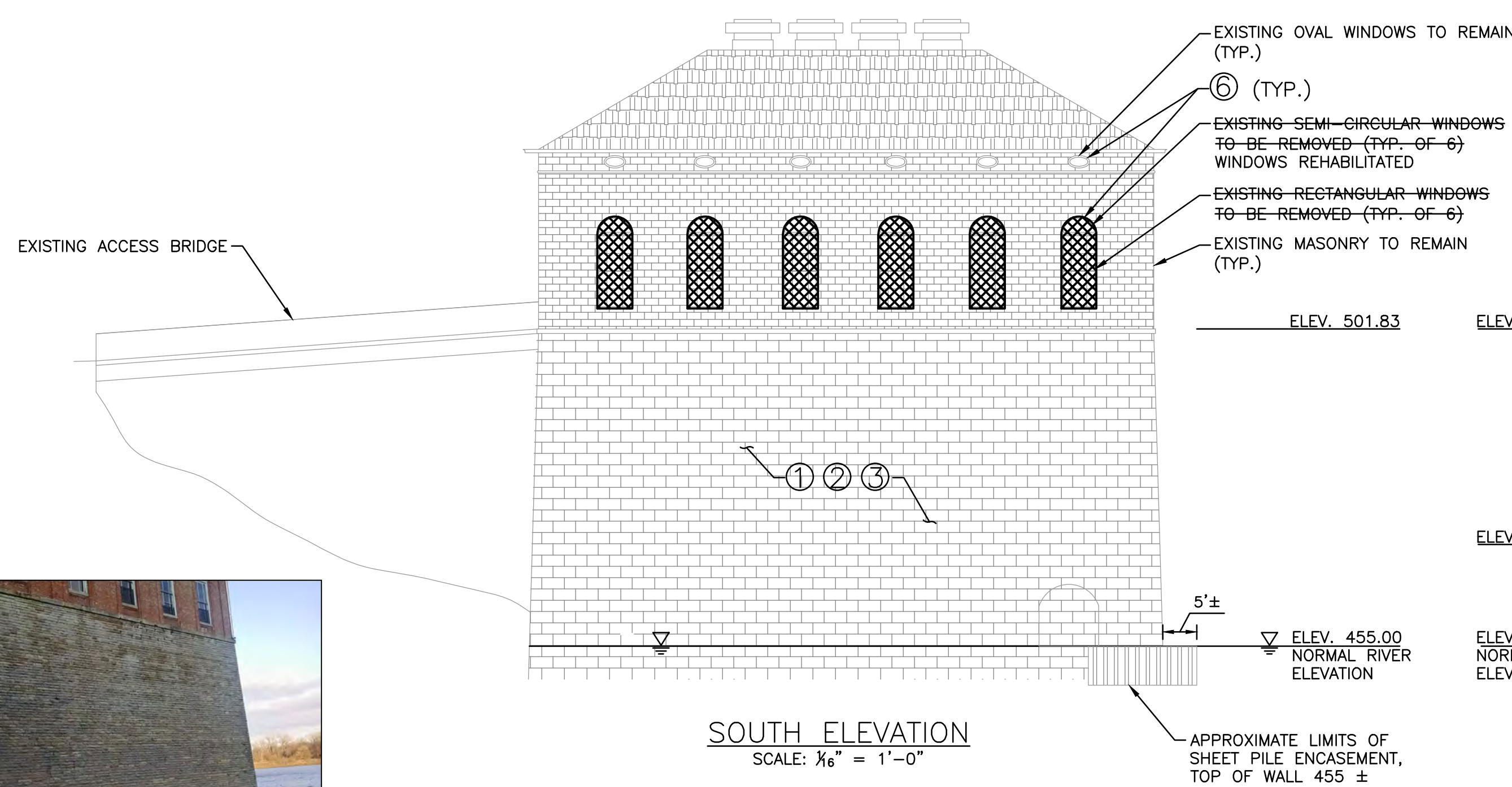
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- DEMOLITION KEY NOTES**
- ALL EXISTING VEGETATION, DEAD OR ALIVE, IS TO BE REMOVED FROM THE FACE OF THE FOUNDATION FROM ELEVATION 455.0 TO THE ROOF LINE FOR THE NORTH, SOUTH, AND EAST ELEVATIONS. ON THE WEST ELEVATION, VEGETATION REMOVAL SHALL START AT THE EXISTING GROUND ELEVATION. ROOTS SHALL BE REMOVED WHERE VISIBLE INTO THE WALL FACE. THE USE OF CHEMICALS TO AID IN THE REMOVAL IS NOT PERMITTED. SOME OF THE VEGETATION MAY BE POISON IVY OR POISON OAK.
 - ALL LOOSE MORTAR IS TO BE REMOVED FROM THE FACE OF THE FOUNDATION FROM ELEVATION 455.0 TO ELEVATION 501.83.
 - ALL BROKEN FOUNDATION BLOCK IS TO BE REMOVED FROM THE FACE OF THE FOUNDATION FROM ELEVATION 455.0 TO ELEVATION 501.83.
 - THE ACCESS BRIDGE IS NOT SHOWN FOR CLARITY.
 - UNLESS SPECIFICALLY NOTED FOR REMOVAL, ALL EXISTING PIPES, CONDUITS, AND MASONRY COMPONENTS ARE TO REMAIN.
 - THE EXISTING WINDOW FRAMES AND CASEMENTS CONTAIN LEAD BASED PAINT MATERIALS. CONTRACTOR IS RESPONSIBLE FOR THE PROPER HANDLING AND DISPOSAL.
 - CONTRACTOR TO PROTECT EXISTING EXPOSED WATER MAIN LOCATED ON NORTH SIDE OF BUILDING AT ALL TIMES
 - SEE DRAWING A-01 FOR ESTIMATED QUANTITIES OF TUCK POINTING AND BLOCK REPAIR.

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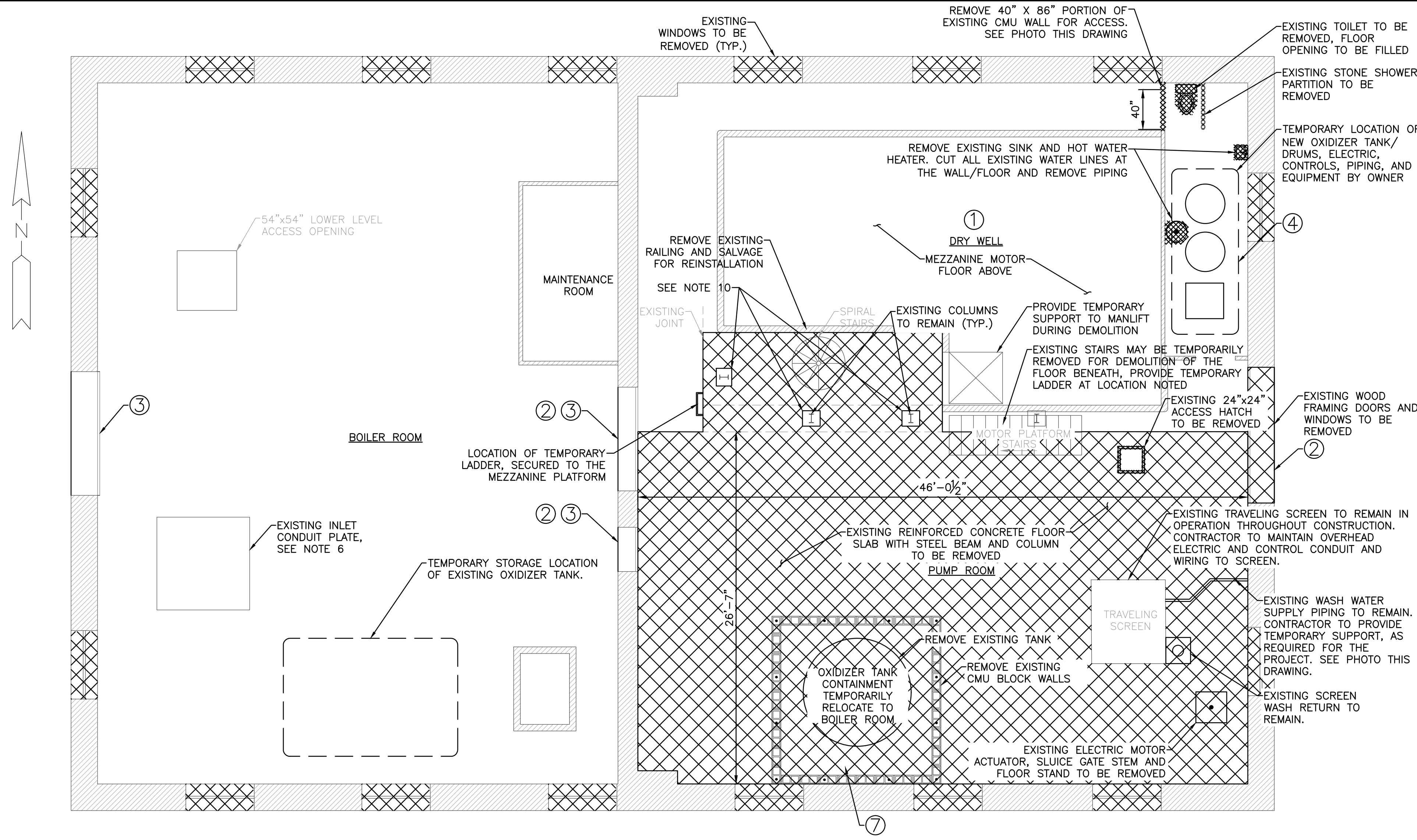
NORTHERN KENTUCKY WATER DISTRICT
 BUILDING ELEVATIONS

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PROJECT MANAGER: C:\PL\WORK\10618278\DFP-PLIS- MAIN FLOOR.DWG - D-02 - PLOTTED 7/26/2018 2:00 PM BY: WELLMAN, AARON



FLOOR PLAN - MAIN FLOOR
SCALE: 3/16" = 1'-0"



EXISTING WALL TO BE SELECTIVELY DEMOLISHED FOR ACCESS



EXISTING DOOR, WINDOW, AND WALL FRAMING TO BE REMOVED



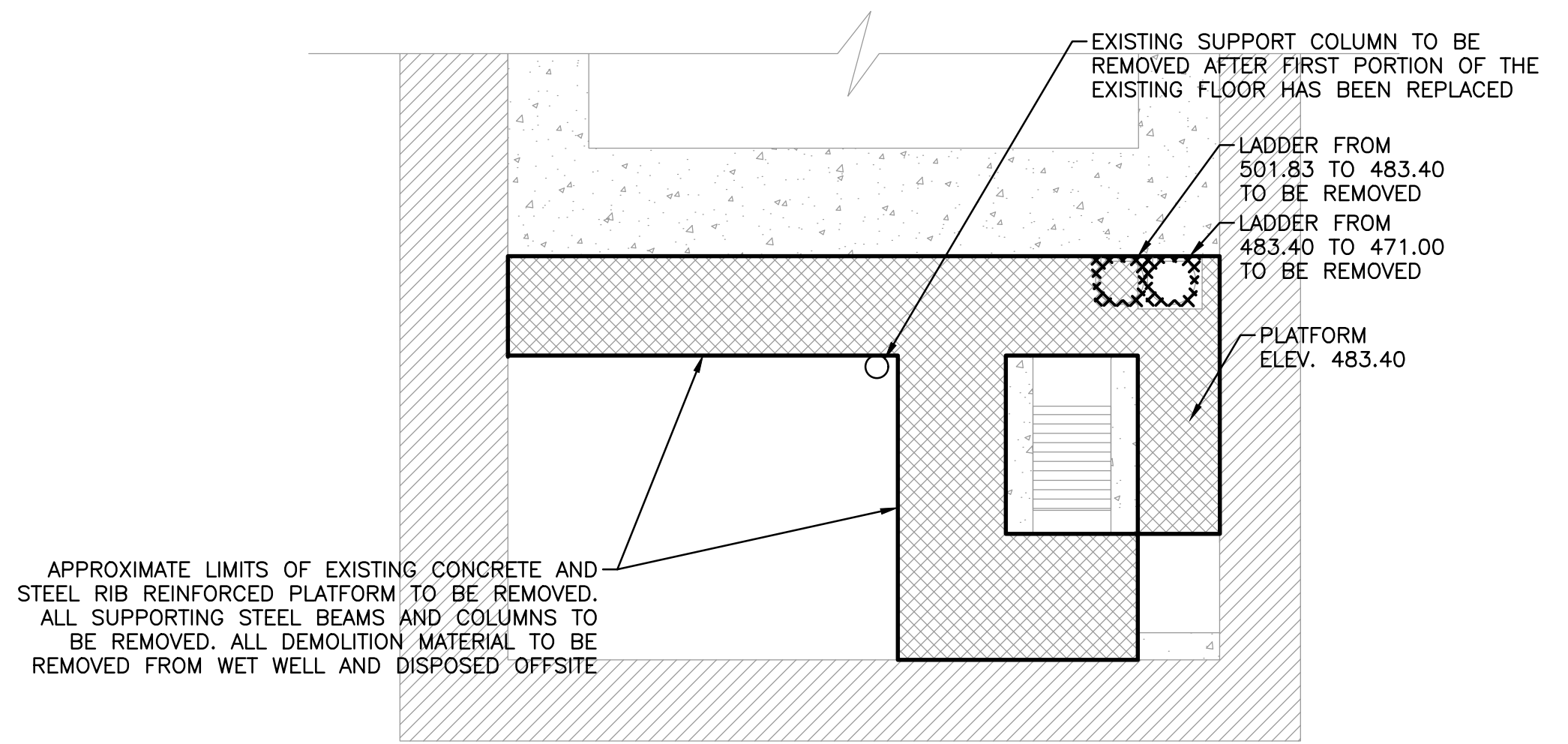
EXISTING TRAVELING SCREEN WASH WATER SUPPLY PIPING TO REMAIN

DEMOLITION NOTES

1. THE MEZZANINE MOTOR FLOOR IS NOT SHOWN FOR CLARITY. WHEN THE PUMP STATION IS IN OPERATION, NORTHERN KENTUCKY WATER DISTRICT PERSONNEL MUST HAVE ACCESS TO THE MOTOR FLOOR, NECESSITATING THE STAGED DEMOLITION AND RECONSTRUCTION OF THE OPERATING FLOOR.
2. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING FALL PROTECTION AND OTHER SAFETY RELATED DEVICES IN ACCORDANCE WITH THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REQUIREMENTS.
3. THE EXISTING BUILDING MUST REMAIN SECURE THROUGHOUT THE DAY AND WHEN NO PERSONS ARE ONSITE. THE CONTRACTOR IS RESPONSIBLE FOR CLOSING AND LOCKING ALL ACCESS DOORS WITHIN THE FACILITY AND SETTING THE FACILITY ALARM. CONTRACTOR WILL BE PROVIDED WITH COPIES OF KEYS AND ALARM INFORMATION PRIOR TO THE START OF WORK.
4. THE TEMPORARY POTASSIUM PERMANGANATE SYSTEM LOCATED IN THE NORTHEAST CORNER OF THE PUMP ROOM MUST REMAIN ACTIVE WHEN THE PUMP STATION IS IN OPERATION. IF THE PUMP STATION IS IN OPERATION DURING PERIODS OF COLD WEATHER, CONTRACTOR TO ENSURE A MINIMUM OF 45 DEGREES FAHRENHEIT CAN BE MAINTAINED WITHIN THE PUMP ROOM TO PREVENT THE SOLUTION TANK AND FEED LINES FROM FREEZING. CONTRACTOR MAY NEED TO PROVIDE TEMPORARY BARRIERS OVER WINDOW OPENINGS.
5. THE EXISTING HEATERS WITHIN THE OPERATIONS ROOM WILL REMAIN IN OPERATION THROUGHOUT CONSTRUCTION TO PROVIDE HEATING DURING COLDER PERIODS. CONTRACTOR MAY NEED TO PROVIDE A TEMPORARY BARRIER OVER THE EXPOSED FLOOR TO KEEP HEAT WITHIN THE SPACE AND PREVENT PIPES FROM FREEZING.
6. THE EXISTING INLET PLATE IS AVAILABLE FOR THE CONTRACTOR TO USE AT HIS OWN RISK. IT IS UNKNOWN WHETHER THIS PLATE HAD BEEN USED EFFECTIVELY IN THE PAST.
7. THERE ARE EXISTING ASBESTOS FLOOR TILES WITHIN THE EXISTING CONTAINMENT AREA TO BE REMOVED. APPROXIMATE QUANTITY = 144SQ.FT.
8. THE EXISTING BRIDGE CRANE IS RATED AT 5 TON CAPACITY. THE OPERATING CONTROLS AND CHAIN OPERATOR ARE LOCATED ON THE EAST END OF THE GANTRY.
9. THE CONTRACTOR IS RESPONSIBLE FOR THE STABILITY OF STRUCTURES DURING DEMOLITION/ CONSTRUCTION. THE ENGINEER TAKES NO RESPONSIBILITY FOR MEANS, METHODS OR SAFETY DURING DEMOLITION/ CONSTRUCTION.
10. SAWCUT AROUND EXISTING COLUMN BASES, TO REMAIN.

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NORTHERN KENTUCKY WATER DISTRICT		
FLOOR PLAN FLOOR REMOVAL		
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PROJECT MANAGER: C.V. MORAN, VDB618278 DFP-PLIS - WET WELL & DRY WELL DWG - D-03 - PLOTTED 1/29/2018 2:01 PM BY WELLMAN, AARON



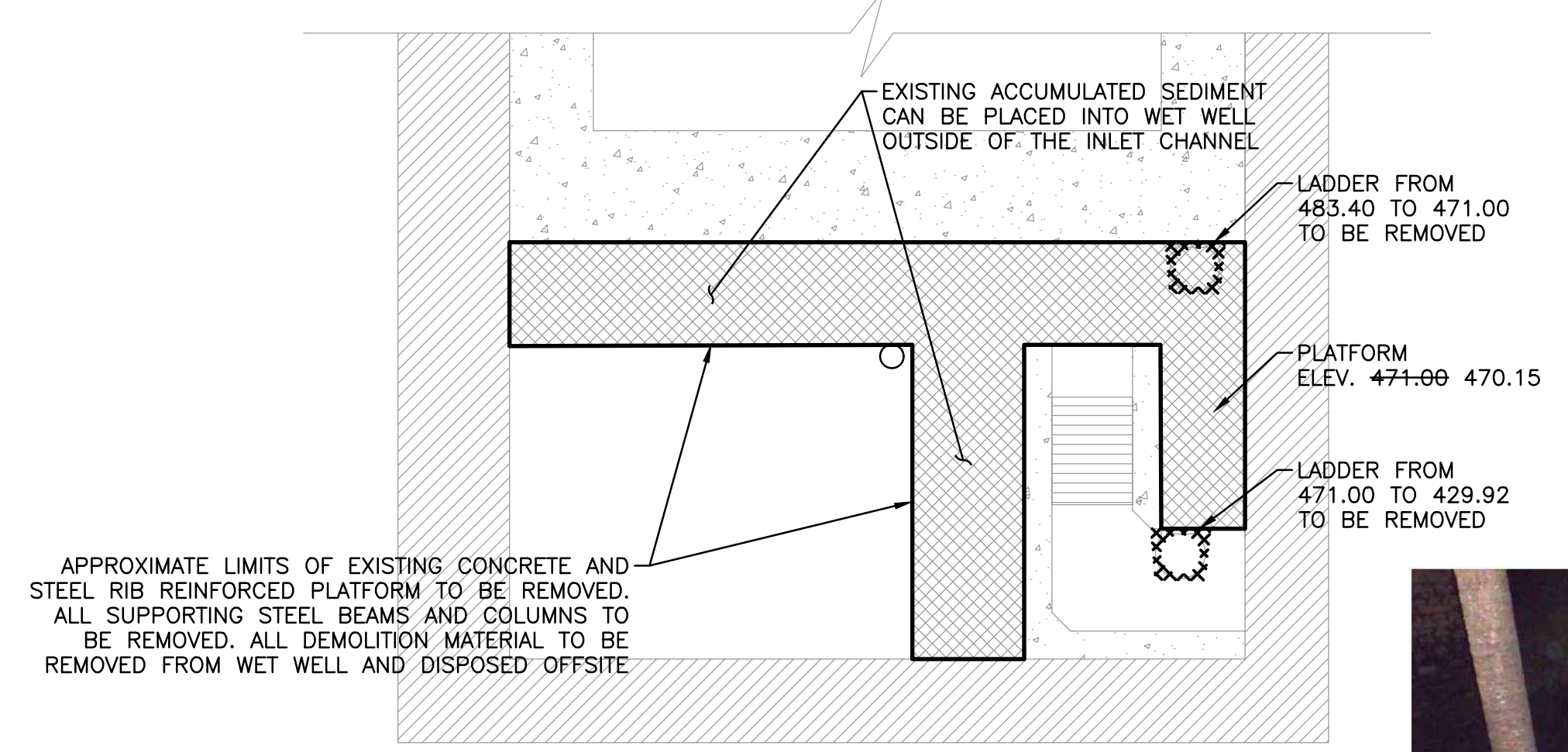
WET WELL FLOOR PLAN
ELEV. 483.40
SCALE: 1/8" = 1'



UNDERSIDE VIEW OF PLATFORM AT ELEV. 483.40



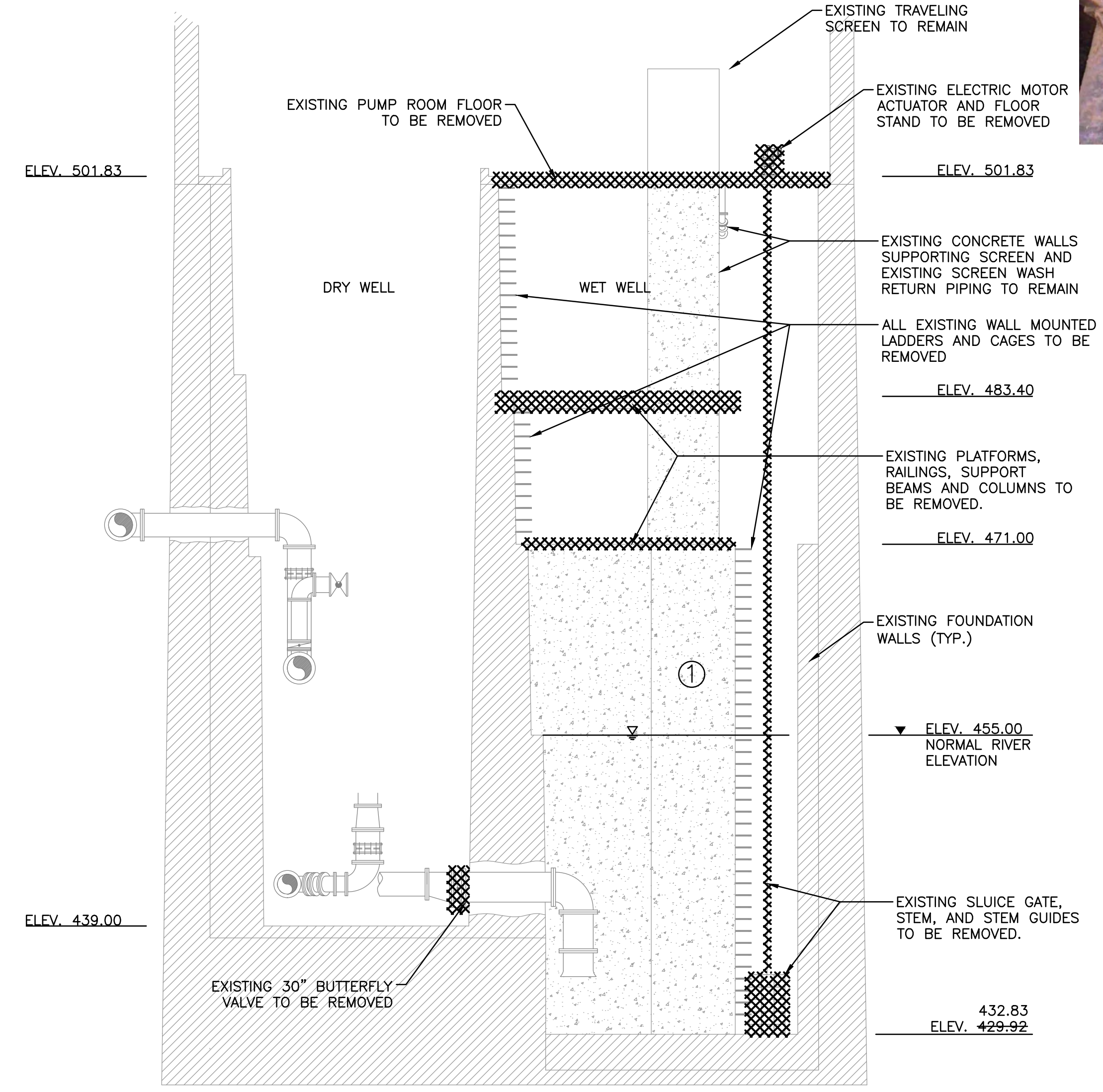
UNDERSIDE VIEW OF PLATFORM AT ELEV. 483.40



WET WELL FLOOR PLAN
ELEV. 471.00
SCALE: 1/8" = 1'



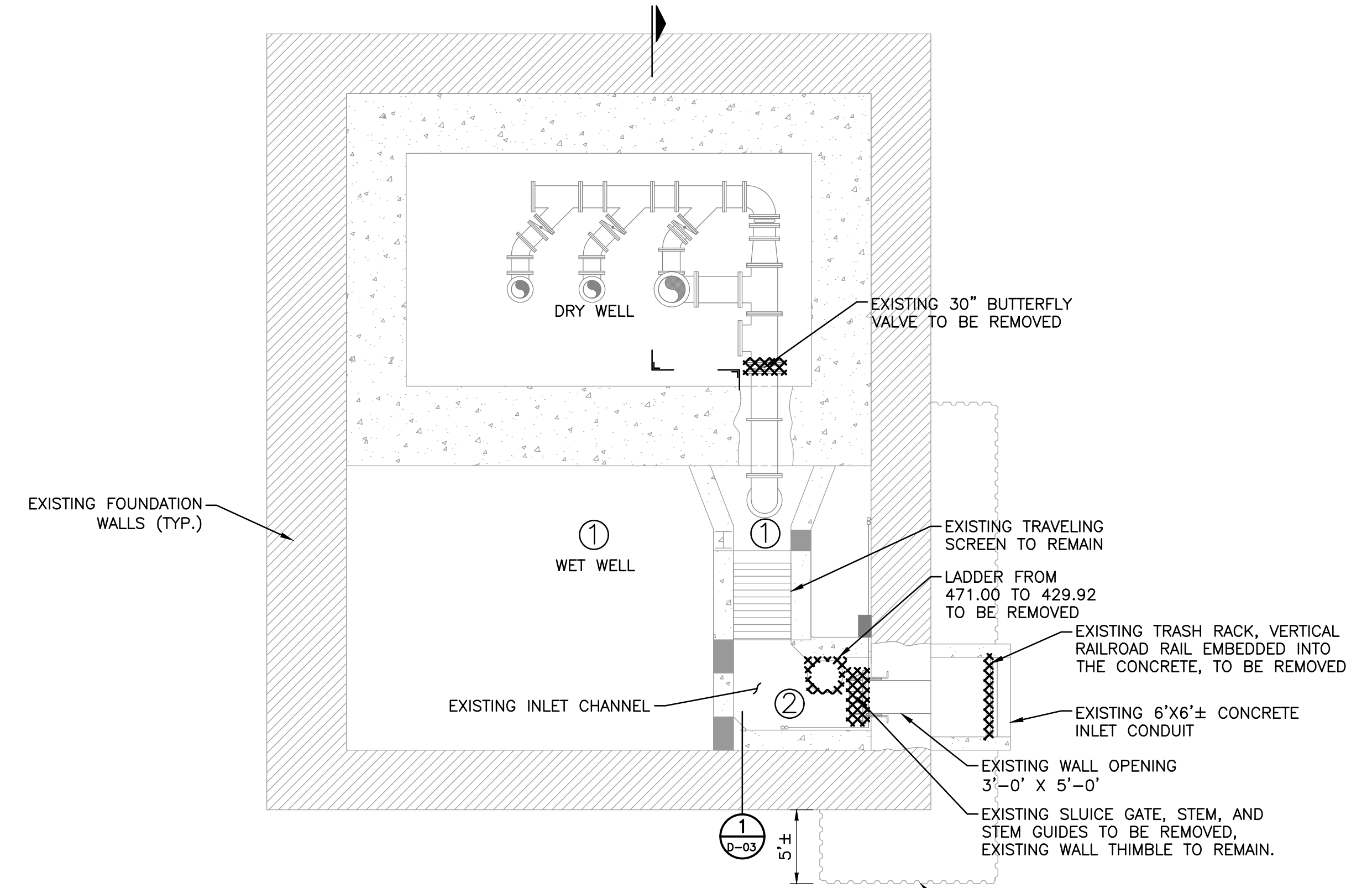
PLATFORM AT ELEV. 471
LOOKING WEST FROM LADDER



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

1
D-03

- NOTES
1. THE EXISTING WET WELL MAY NOT BE WATERTIGHT, BOTH THE INLET CHANNEL AND THE EXTERIOR BLOCK FOUNDATION WALLS MAY LEAK.
 2. CONTRACTOR SHALL REMOVE ACCUMULATED SEDIMENT AND DEBRIS FROM THE EXISTING INLET CHANNEL. AN ESTIMATED QUANTITY OF 10CY IS LOCATED BETWEEN THE TRAVELING SCREEN AND THE END OF THE 6'X6' CONCRETE INLET.



DRY WELL FLOOR PLAN &
WET WELL FLOOR PLAN
SCALE: 1/8" = 1'

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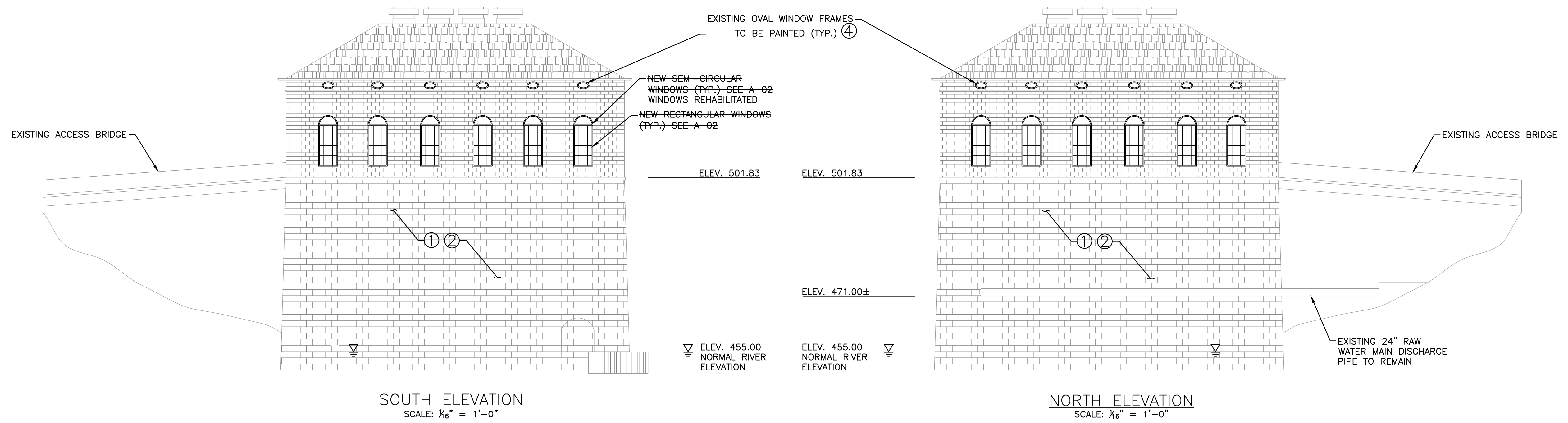
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WET WELL & DRY WELL

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D-03

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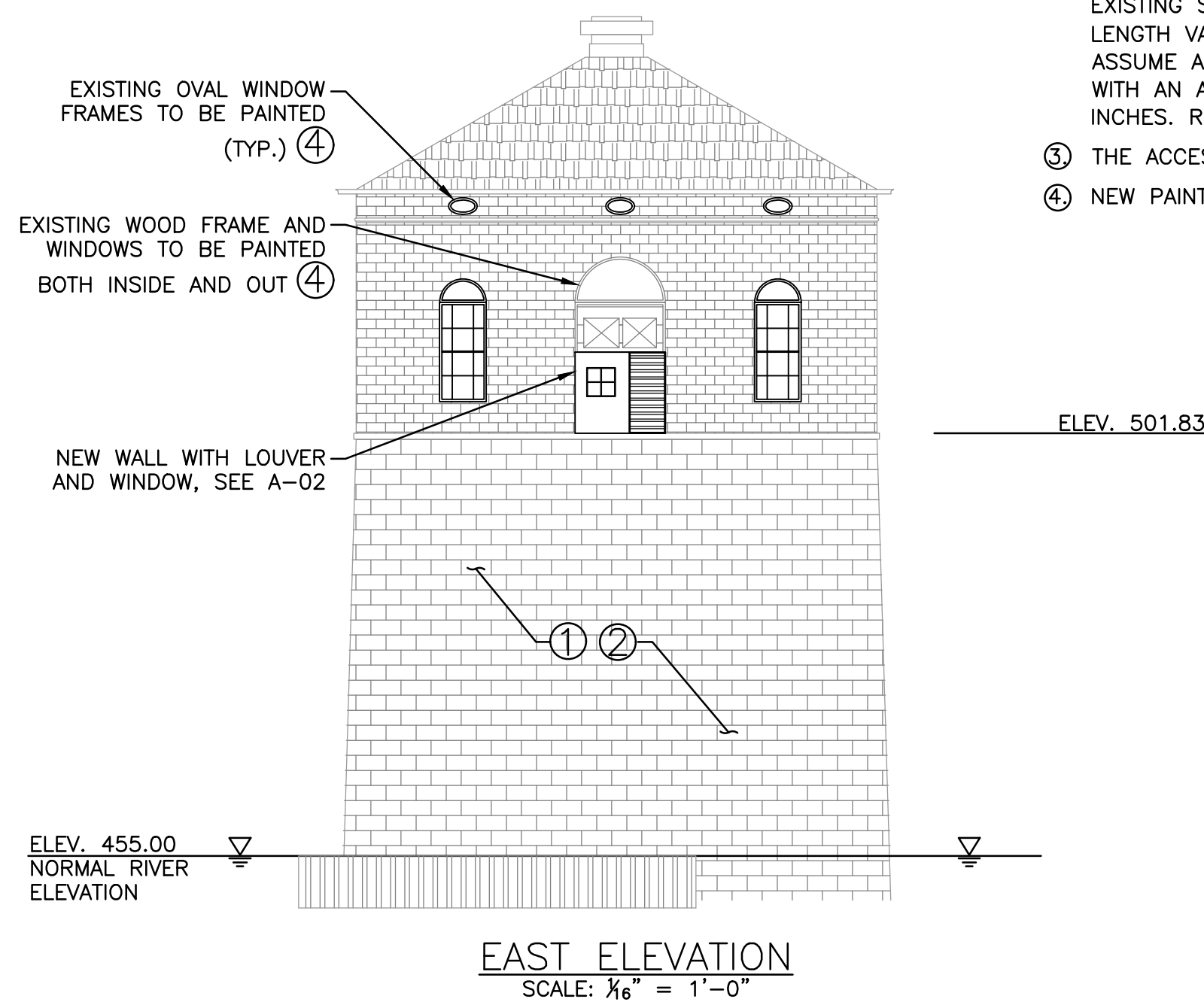


SOUTH ELEVATION
SCALE: 1/8" = 1'-0"

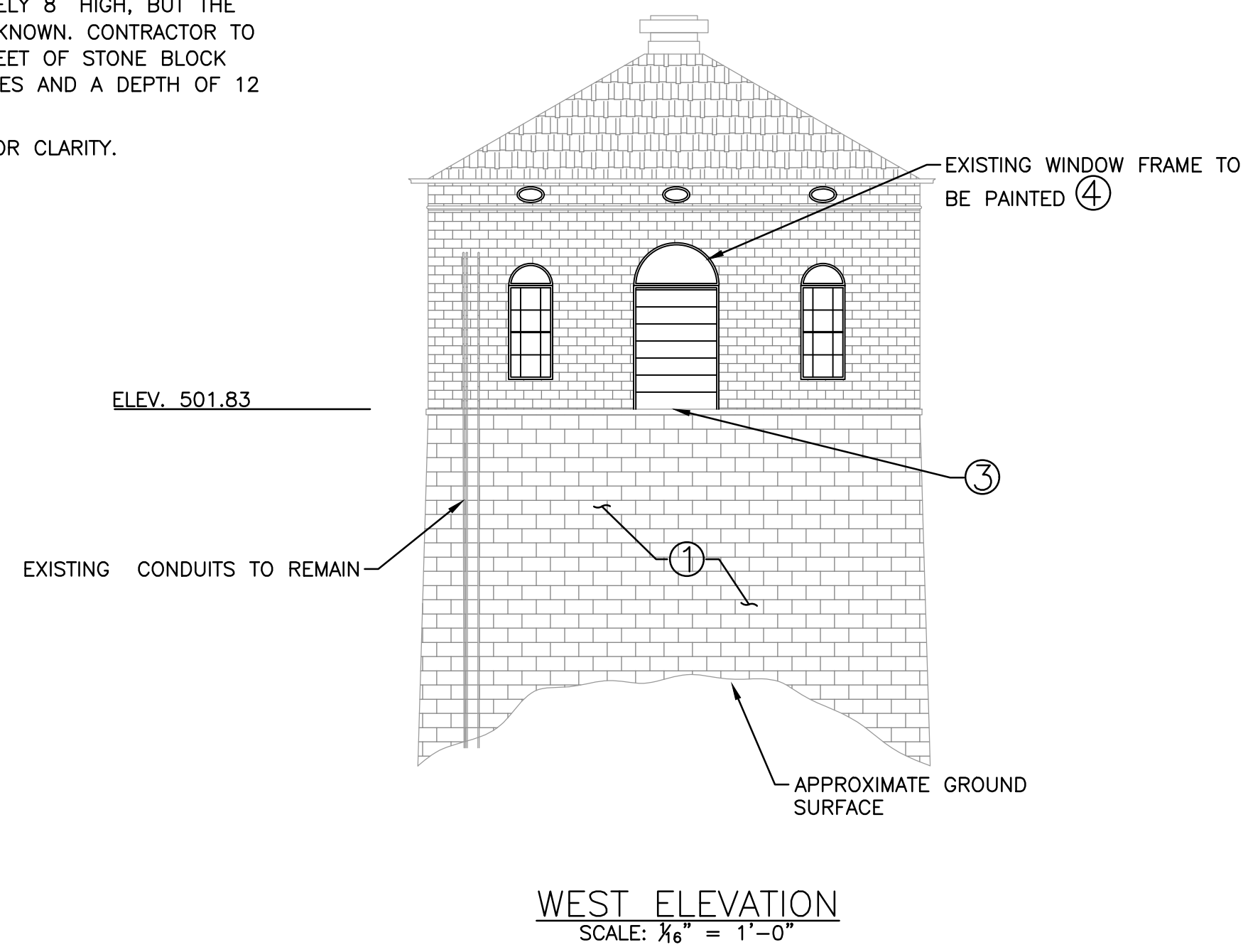
NORTH ELEVATION
SCALE: 1/8" = 1'-0"

INSTALLATION KEY NOTES:

- ① ALL AREAS WHERE MORTAR WAS REMOVED FROM THE FOUNDATION WILL BE REPOINTED WITH NEW MORTAR FROM ELEVATION 455.0 OR THE NATURAL GROUND SURFACE TO ELEVATION 501.83. CONTRACTOR TO ASSUME A QUANTITY OF 5,400LF OF VERTICAL AND HORIZONTAL JOINT LENGTH TO BE REPAIRED ACROSS ALL FACES. REFER TO DRAWING D-01.
- ② ANY BROKEN FOUNDATION BLOCK REMOVED FROM THE FACE OF THE FOUNDATION WILL BE REPLACED WITH NEW BLOCK AND MORTARED INTO PLACE FROM ELEVATION 455.0 OR THE NATURAL GROUND SURFACE TO ELEVATION 501.83. THE EXISTING STONE BLOCK IS APPROXIMATELY 8" HIGH, BUT THE LENGTH VARIES AND THE DEPTH IS UNKNOWN. CONTRACTOR TO ASSUME A QUANTITY OF 200 LINEAR FEET OF STONE BLOCK WITH AN AVERAGE LENGTH OF 15 INCHES AND A DEPTH OF 12 INCHES. REFER TO DRAWINGS D-01.
- ③ THE ACCESS BRIDGE IS NOT SHOWN FOR CLARITY.
- ④ NEW PAINT COLOR TO MATCH EXISTING.



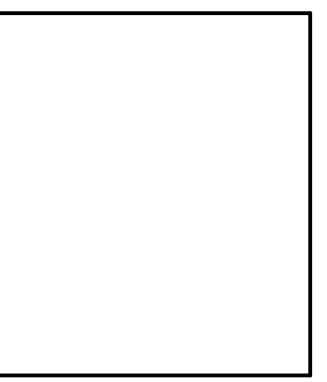
EAST ELEVATION
SCALE: 1/8" = 1'-0"



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

PROJECT MANAGER: C:\PL\WORK\2\0618278\ABE-PLTS-BUILDING ELEVATIONS.DWG - A-01 - PLOTTED 7/26/2018 2:01 PM BY: WELLMAN, AARON

REV#	DATE	DESCRIPTION	BY



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NORTHERN KENTUCKY WATER DISTRICT
BUILDING ELEVATIONS

ISSUED FOR:	DATE:	BY:
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90% REVIEW	4/18/16	KMK
100% REVIEW	5/16/16	KMK
BID	6/03/16	KMK
CONSTRUCTION	1/26/17	KMK
RECORD	2/28/18	KMK

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A-01

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EXISTING TYPICAL WINDOWS



EXISTING BLANKED SEMICIRCULAR WINDOW
BLANKS TO BE REMOVED FOR WINDOWS



EXISTING SEMI-CIRCULAR WINDOW



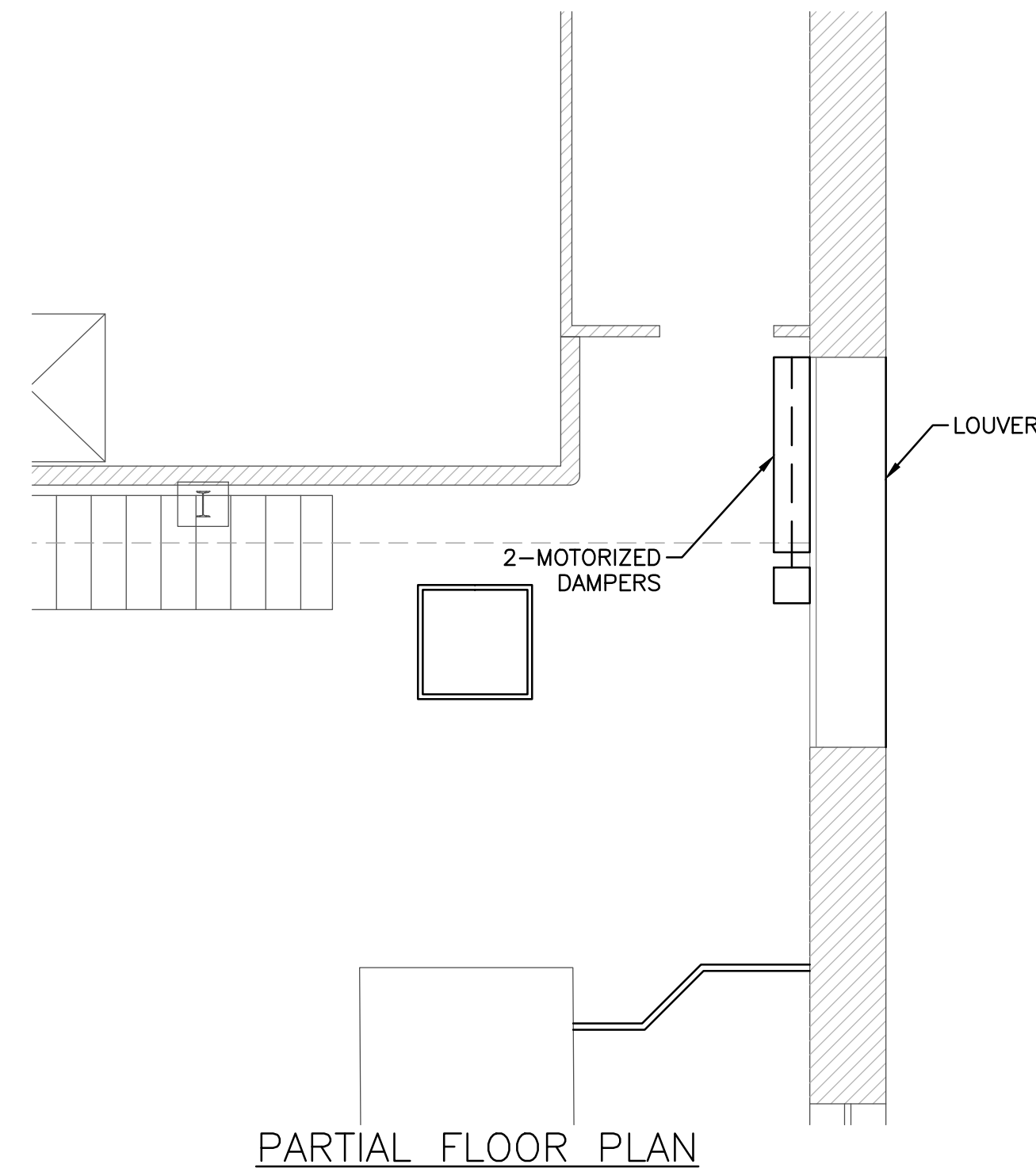
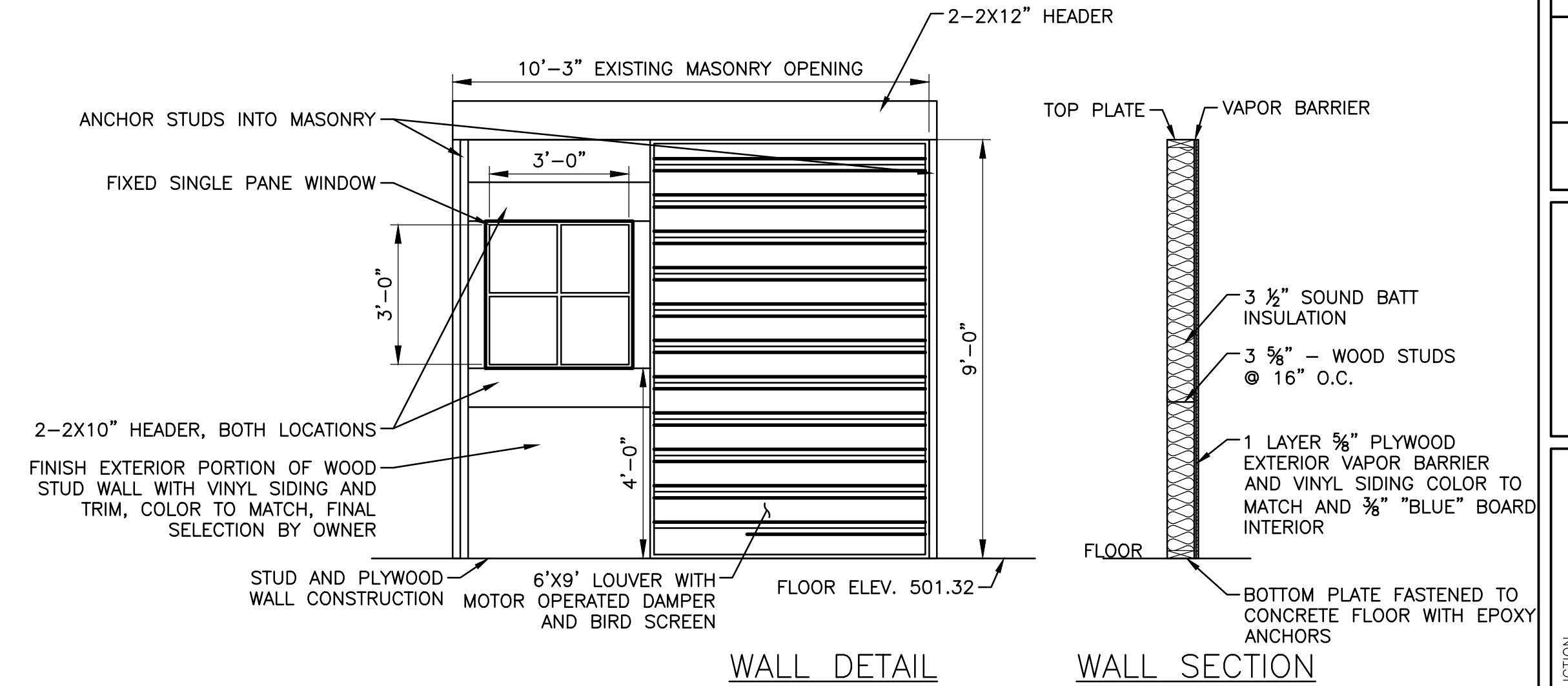
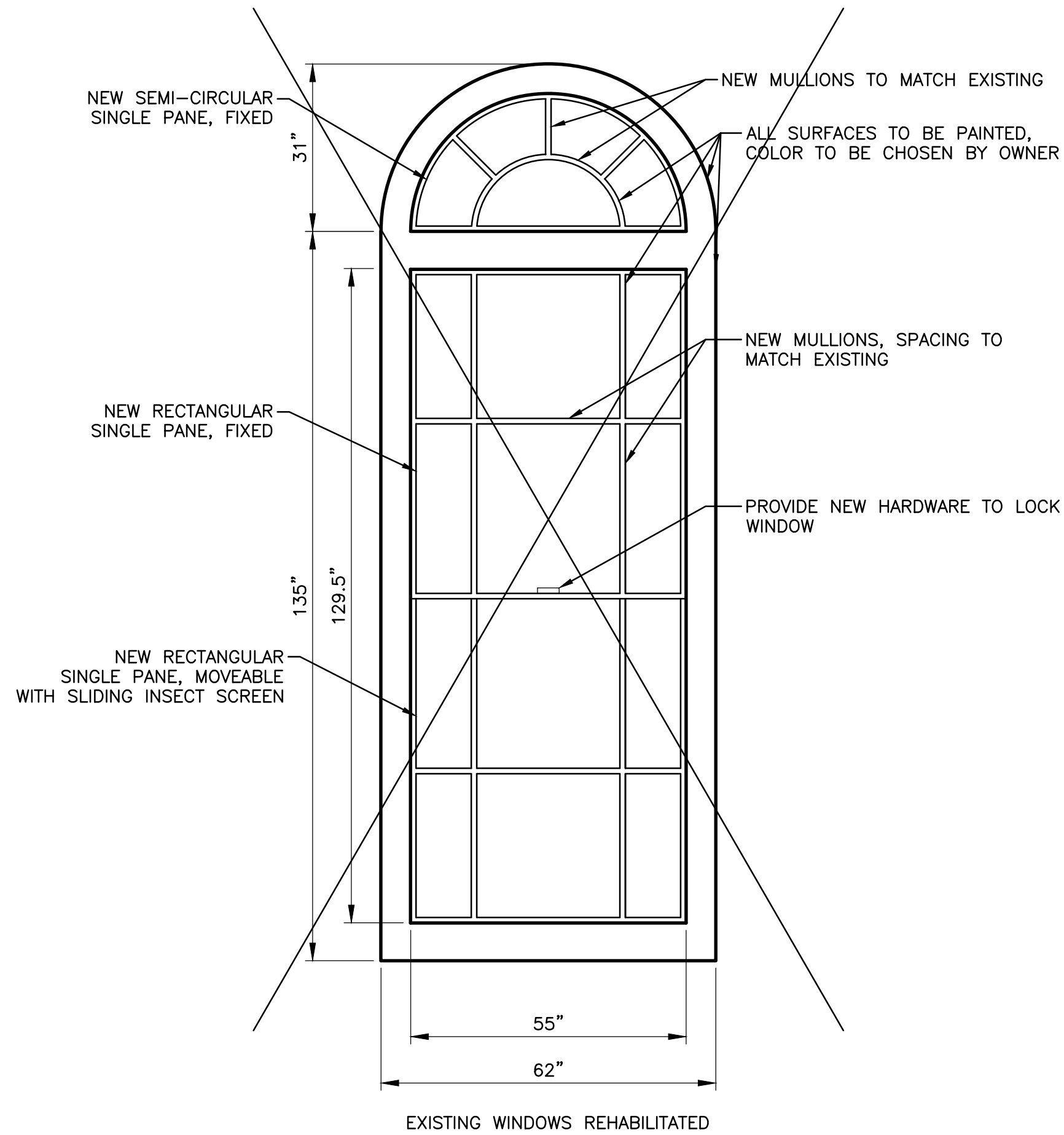
EXISTING RECTANGULAR WINDOWS WITH MULLIONS

OPENING SCHEDULE

Item	Quantity	Opening Dimension	Unit Size
Louwer	1	72" x 108"	72" x 108"

WINDOW SCHEDULE

Window Shape	Quantity	Opening Dimension	Pane Dimension	Type	Panes	Mullions	Insect Screen	Comments
Rectangular	16	62" x 135"	55" x 129.5"	Single Hung	Single	Yes	Yes	Match Existing
Semi-Circular	16	62" x 31"	55" x 27.5"	Fixed	Single	Yes	No	Match Existing
Square	1	38" x 38"	36" x 36"	Fixed	Single	Yes	No	

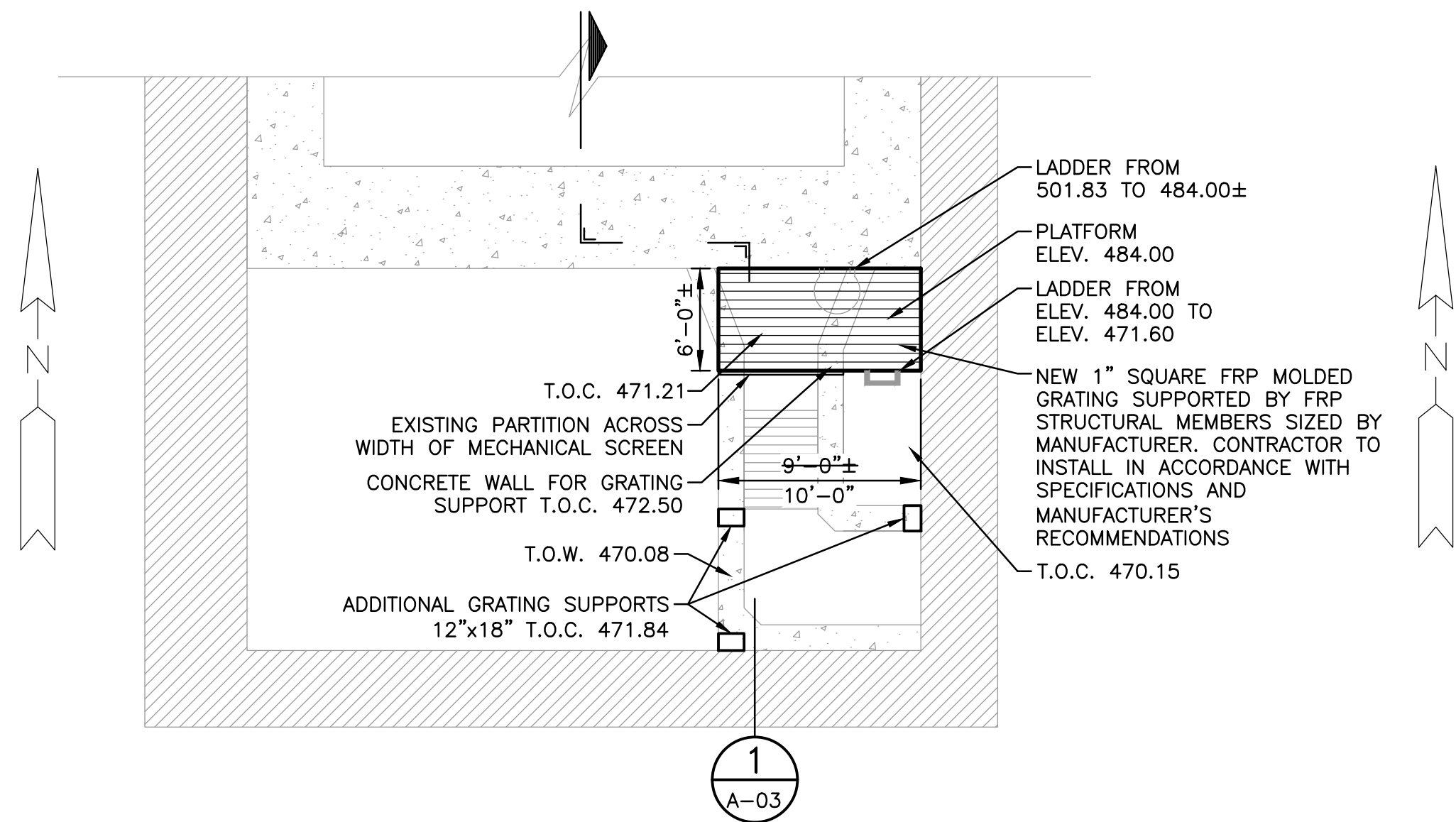


INSTALLATION NOTES
1. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS FOR NEW WINDOWS AND OTHER CONSTRUCTION PRIOR TO ORDERING MATERIALS

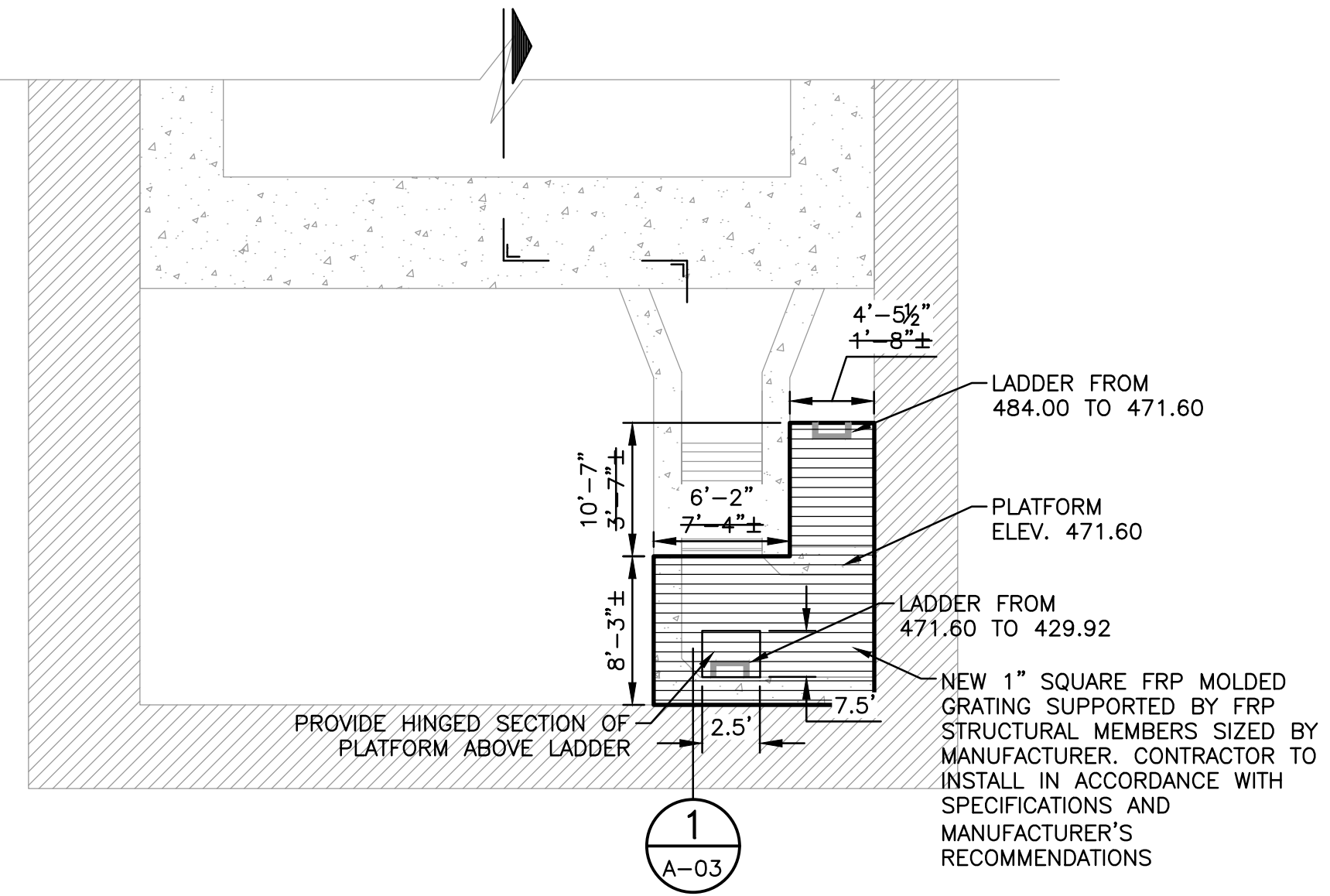
PROJECT MANAGER: C:\P\WORK\2018\18278\WDE-PLTS-WINDOW DETAILS.DWG - A-02 - PLOTTED 7/26/2018 2:01 PM BY: WELLMAN, AARON

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<p>ISSUED FOR: DATE: BY:</p> <p>50% REVIEW 2/29/16 KMK</p> <p>90% REVIEW 4/18/16 KMK</p> <p>100% REVIEW 5/16/16 KMK</p> <p>BID 6/03/16 KMK</p> <p>CONSTRUCTION 1/26/17 KMK</p> <p>RECORD 2/28/18 KMK</p>	<p>JOB NO. NKW2001-01H</p> <p>SHEET A-02</p>

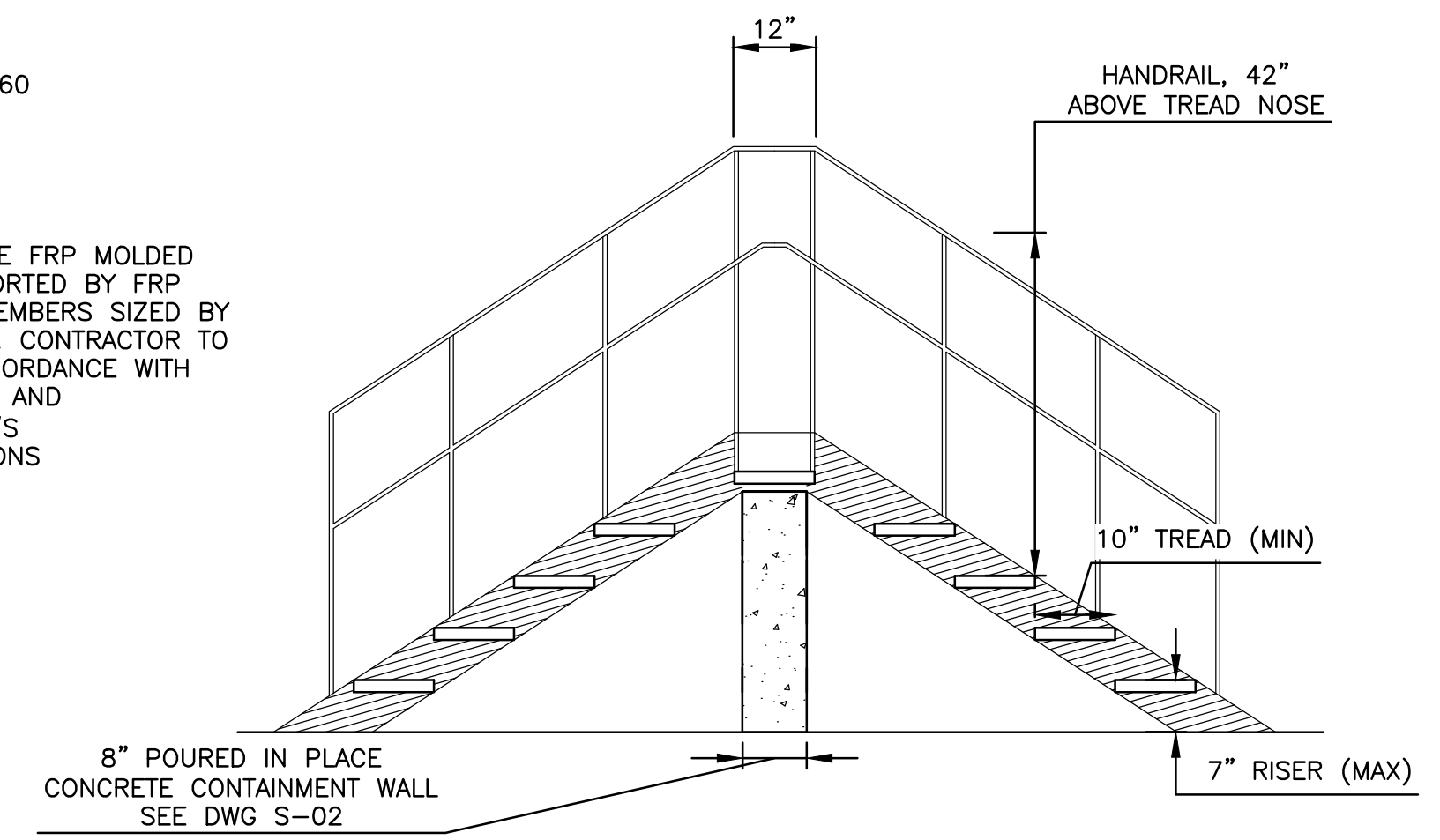
PROJECT MANAGER: FIELD BOOK INFORMATION: LADDERS AND PLATFORMS.DWG - A-03 - PLOTTED 7/29/2018 2:01 PM BY: WELLMAN, AARON



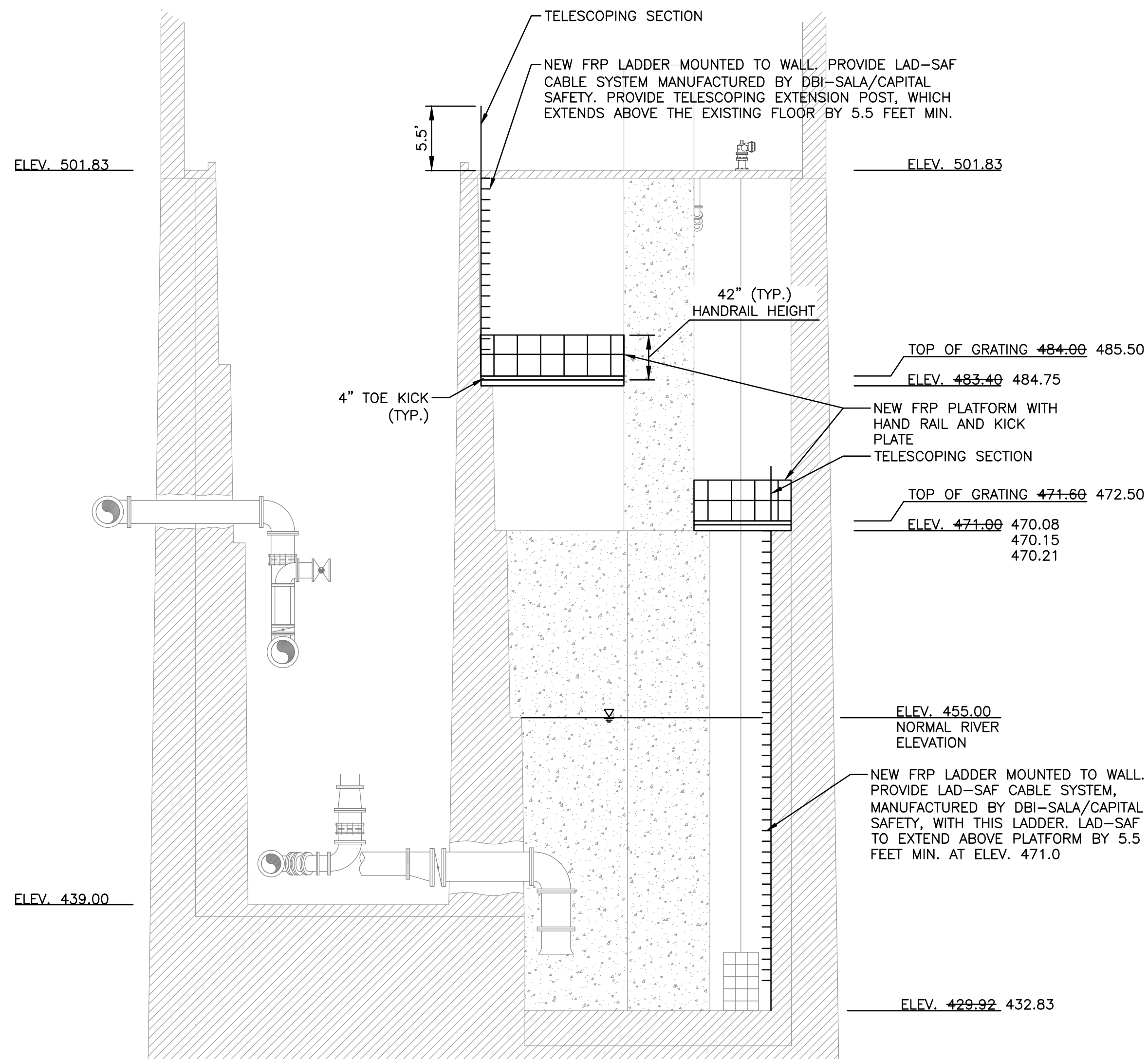
WET WELL FLOOR PLAN
ELEV. 483.40
SCALE: 1/8" = 1'



WET WELL FLOOR PLAN
ELEV. 471.00
SCALE: 1/8" = 1'

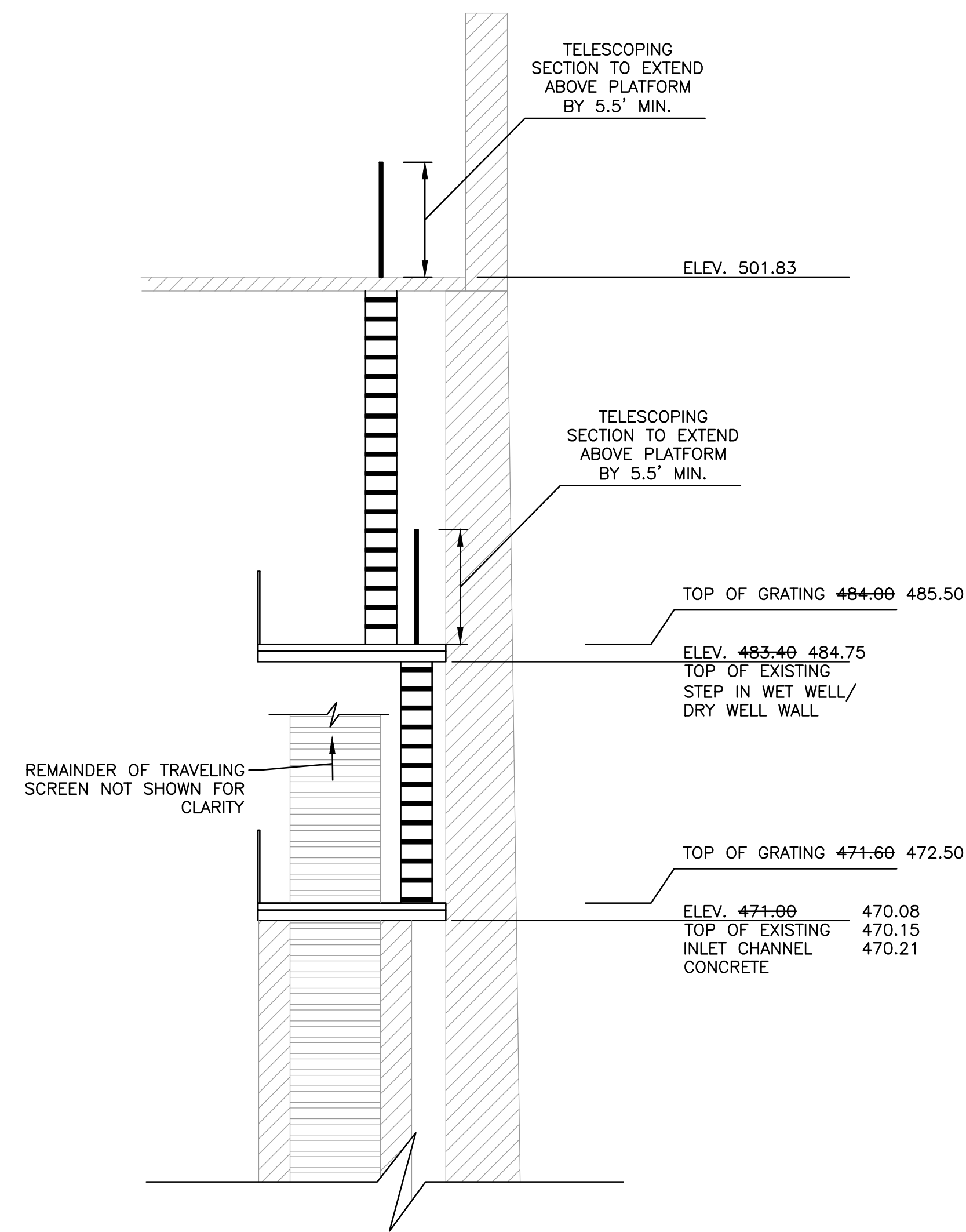


FRP STAIR SECTION - A-A

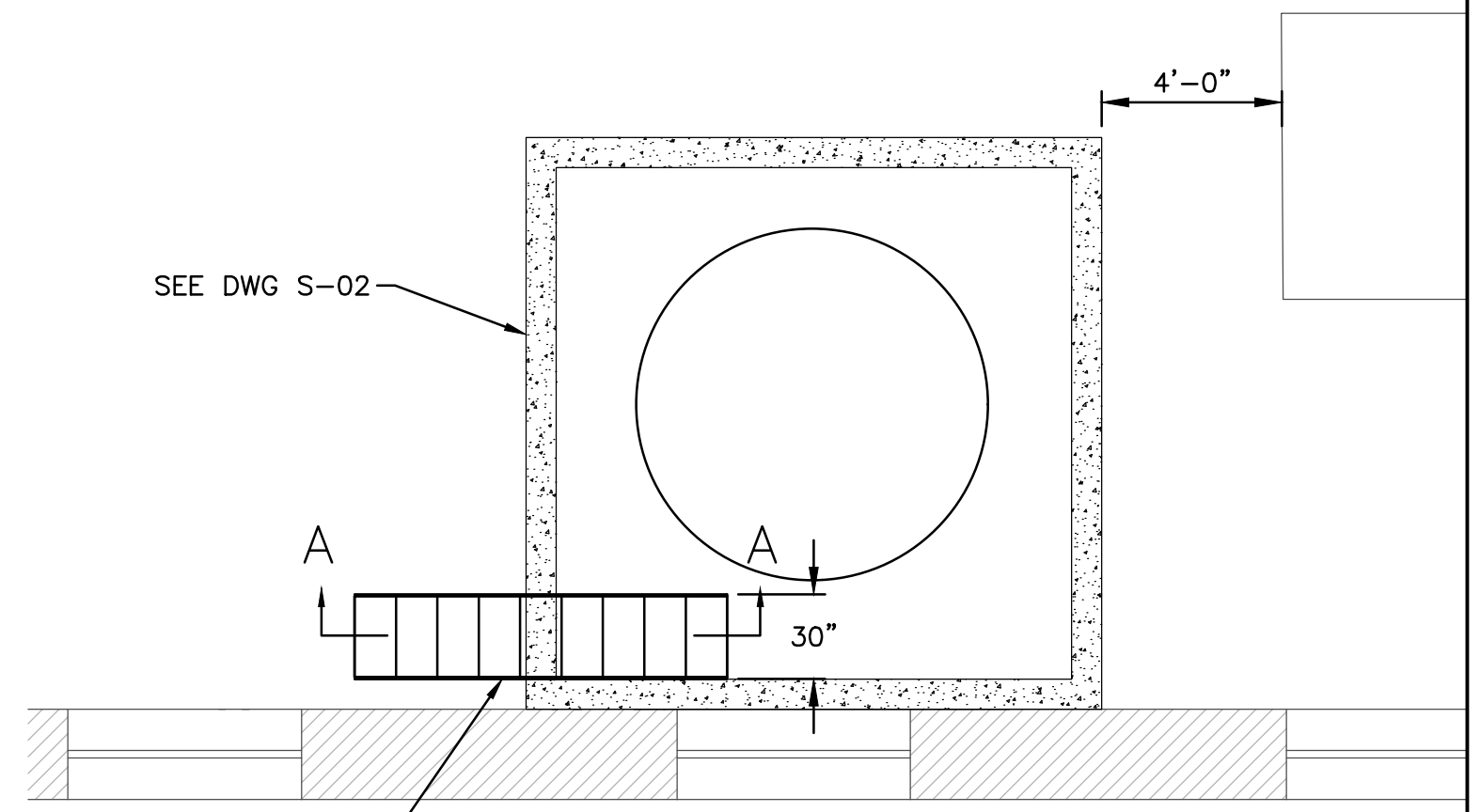


SECTION
SCALE: 1/8"=1'-0"

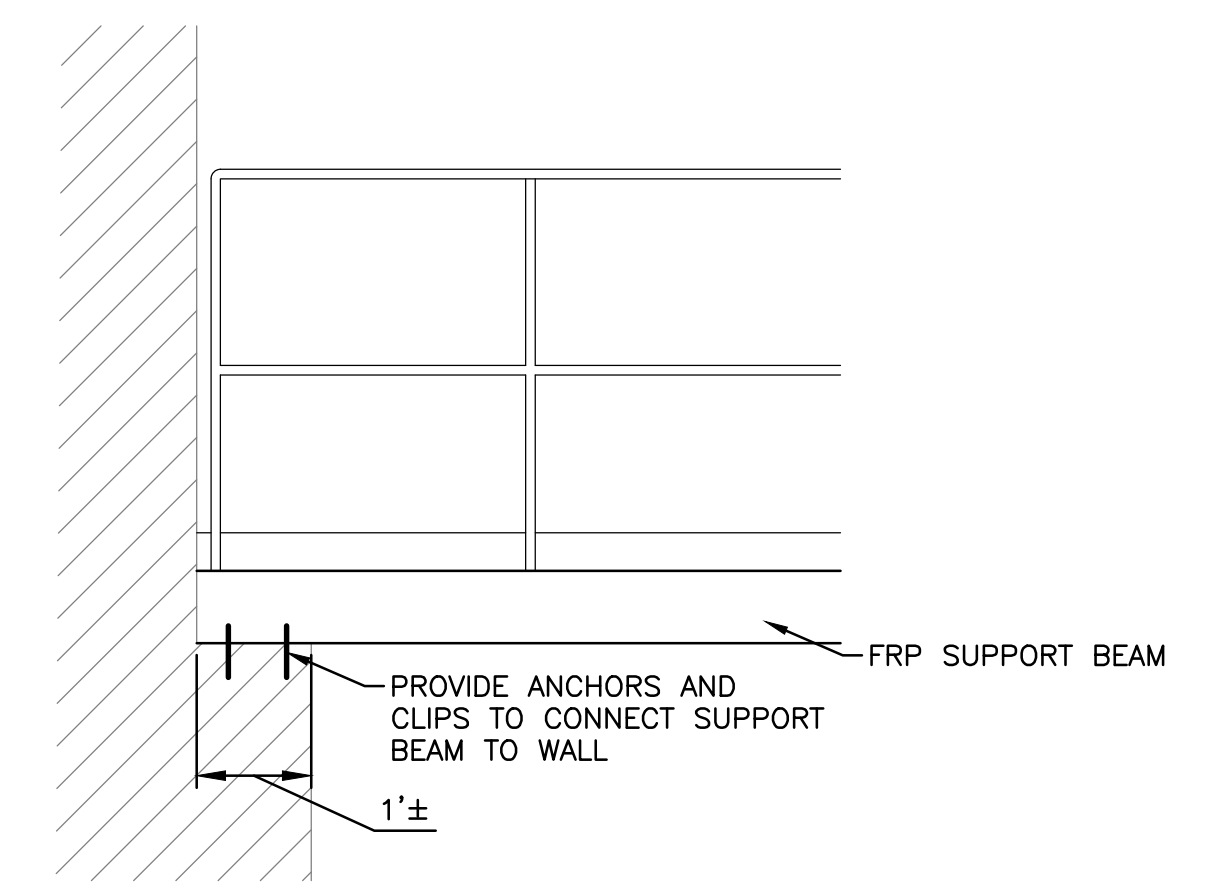
1
A-03



PROFILE VIEW - PLATFORMS AND LADDERS
SCALE: 3/16" = 1'



PARTIAL FLOOR PLAN
SCALE: 1/4" = 1'



PLATFORM CONNECTION DETAIL
SCALE: NONE

REV#	DATE	DESCRIPTION	BY

--	--

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WATER DISTRICT
LADDERS AND PLATFORMS

ISSUED FOR:	DATE:	BY:
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CONSTRUCTION/RECORD	2/26/17	KMK
	2/28/18	KMK

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A-03

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GENERAL NOTES

GENERAL

- WHERE APPLICABLE FOR CONFINED SPACES, THE CONTRACTOR SHALL CONFORM TO ALL REQUIREMENTS OF GOVERNING OSHA AND LOCAL SAFETY REGULATIONS.
- DESIGN CODES AND GUIDANCE DOCUMENTS:
 - 2012 INTERNATIONAL BUILDING CODE (IBC).
 - BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE, ACI 318-11.
 - MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES, ASCE 7-10.
 - AISC SPECIFICATION FOR STRUCTURAL STEEL BUILDING AISC/ANSI 360-10.
 - AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES, AISC 303-10.
 - AISC STEEL CONSTRUCTION MANUAL, FOURTEENTH EDITION.
 - AMERICAN WELDING SOCIETY (AWS)
 - AWS D1.1: 2010 STRUCTURAL STEEL
 - AWS D1.4: 2001 REINFORCING STEEL
- CONTRACTOR SHALL VERIFY ALL EXISTING ELEVATIONS AND DIMENSIONS PRIOR TO CONSTRUCTION. WHEN ANY UNEXPECTED CONDITION IS ENCOUNTERED, CONTRACTOR SHALL IMMEDIATELY INFORM THE ENGINEER. ANY FIELD MODIFIED DETAIL SHALL BE APPROVED BY THE DESIGN ENGINEER PRIOR TO CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE FOR THE STABILITY OF STRUCTURES DURING CONSTRUCTION. THE ENGINEER TAKES NO RESPONSIBILITY FOR MEANS, METHODS, OR SAFETY DURING CONSTRUCTION.

CAST-IN-PLACE CONCRETE

- THE DETAILING, BENDING, AND PLACING OF REINFORCING STEEL SHALL BE IN ACCORDANCE WITH ACI STANDARD 318-11 CODE AND ACI DETAILING MANUAL, SP-66 (04). FIELD BENDING WILL NOT BE PERMITTED UNLESS APPROVED BY ENGINEER.
- ALL REINFORCING STEEL SHALL BE NEW BILLET STEEL DEFORMED BARS CONFORMING TO ASTM A615, GRADE 60.
- ALL CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF 4500 PSI @ 28 DAY UNLESS OTHERWISE NOTED.
- STEEL REINFORCING SHALL NOT BE SPLICED AT POINTS OTHER THAN SHOWN ON THE PLANS, EXCEPT AS APPROVED BY THE ENGINEER, UNLESS NOTED OTHERWISE.
- THE LENGTH OF ALL LAP SPLICES SHALL BE AS SPECIFIED IN "REINFORCING TENSION SPLICE TABLE" ON THIS SHEET UNLESS OTHERWISE INDICATED IN DRAWINGS. WHEN BARS OF DIFFERENT SIZE ARE BEING LAPPED, THE LENGTH SHALL BE THE SPECIFIED LAP LENGTH OF THE LARGER BAR.
- CONCRETE COVER OVER REINFORCEMENT SHALL BE 2 INCHES MINIMUM AT ALL OTHER LOCATIONS, UNLESS NOTED OTHERWISE.

DESIGN LOADS

- DESIGN LOADS SHALL BE IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE 2012 (IBC).
- DESIGN LOADS (GENERAL) – RISK CATEGORY III
 - ELEVATED SLAB LIVE LOAD = 300PSF
 - WIND LOADS
 - RISK CATEGORY: III
 - ULTIMATE DESIGN WIND SPEED, V_{ASD} , (3-SECOND) GUST) = 120MPH
 - NOMINAL DESIGN WIND SPEED, V_{ASD} , = 93 MPH
 - ENCLOSURE CLASSIFICATION: ENCLOSED
 - INTERNAL PRESSURE COEFFICIENT, C_{pe} , = ±0.18
 - DESIGN WIND PRESSURE FOR WINDOWS = ± 46.3PSF
 - ALL GUARDRAILS AND HANDRAILS SHALL BE DESIGNED TO MEET LOADING CRITERIA CONFORMING TO REQUIREMENTS OF INTERNATIONAL BUILDING CODE 2012.

MISCELLANEOUS

- ALL EXISTING DIMENSIONS AND ELEVATIONS SHOWN WITH THE ± SYMBOL, ARE APPROXIMATE AND SHALL BE VERIFIED IN FIELD BY THE CONTRACTOR BEFORE FABRICATION AND CONSTRUCTION.
- BEFORE CONSTRUCTION, THE CONTRACTOR SHALL VERIFY ALL EQUIPMENT FOUNDATION, PAD, AND CURB DIMENSIONS; AND THE SIZES AND LOCATIONS OF ANCHOR BOLTS FROM MANUFACTURER'S CERTIFIED SHOP DRAWINGS.
- ALL DIMENSIONS OR ELEVATIONS MARKED WITH AN ASTERISK "*" SHALL BE DETERMINED OR VERIFIED WITH EQUIP. MFR. CERTIFIED SHOP DRAWINGS BEFORE FABRICATION AND CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE TO IDENTIFY AND ACCOMMODATE OPENINGS AND EMBEDDED ITEMS SHOWN ON OTHER DRAWINGS.
- ALL ADHESIVE ANCHORING SYSTEMS FOR POST INSTALLED ANCHORS AND/OR REINFORCING DOWELS IN CONCRETE AND MASONRY SHALL BE "HIT-HY 200 ADHESIVE ANCHORING SYSTEM" BY HILTI AT SIZE AND SPACING INDICATED ON DRAWINGS (OR APPROVED EQUAL). CONTRACTOR TO CONFIRM MASONRY IS SOLID BEFORE INSTALLATION.

STRUCTURAL SPECIAL INSPECTIONS

- ALL SPECIAL INSPECTIONS SHALL BE PERFORMED AND IN COMPLIANCE WITH IBC 2012 SECTION 1704 AND SPECIFICATION SECTION 01 4500 "QUALITY CONTROL". ALL SPECIAL INSPECTION ITEMS SHALL BE INCLUDED AS FOLLOWS:
 - IBC 2012 TABLE 1705.3 "REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION"

STEEL

- STRUCTURAL STEEL AND MISCELLANEOUS METAL WORK SHALL CONFORM TO THE SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, ANSI/AISC 360-10 AND AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDING AND BRIDGES (AISC 303-10).
- ALL STRUCTURAL STEEL W AND WT SHAPES SHALL CONFORM TO ASTM A-992, GRADE 50. MISCELLANEOUS METALS SHALL CONFORM TO ASTM A-36.
- BOLTS SHALL BE A MINIMUM 3/4" DIAMETER, ASTM A325N, TYPE 1, UNLESS NOTED OTHERWISE. PROVIDE COMPATIBLE A563 GRADE DH, HEAVY HEX NUTS, AND F436 GRADE 1 WASHERS.
- ALL SHOP CONNECTIONS SHALL BE WELDED. ALL PRINCIPAL FIELD CONNECTIONS SHALL BE 3/4" (MIN) HS BOLTS ASTM – A325.
- UNLESS DETAILED OR NOTED OTHERWISE, CONNECTION OF BEAMS SHALL BE CAPABLE OF SUPPORTING 50% OF THE TOTAL ALLOWABLE UNIFORM LOAD CAPACITY AS CALCULATED FROM THE ALLOWABLE UNIFORM LOAD CHART IN THE AISC MANUAL.
- STEEL SUPPLIER SHALL DESIGN CONNECTIONS FOR LOADS INDICATED ON PLANS. SUBMIT CALCULATIONS FOR ALL MOMENT CONNECTIONS, INCLUDING DESIGN OF ALL COLUMN STIFFENER AND DOUBLER PLATES (IF REQUIRED), SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF KENTUCKY.
- WELDING SHALL CONFORM TO AWS D1.1-1 AND AISC 341-05. ALL ELECTRODES FOR SHOP AND FIELD WELDS SHALL CONFORM TO AWS A5.1 OR A5.5, CLASS E70XX.
- ALL GALVANIZED STEEL SHALL BE HOT-DIP GALVANIZED CONFORMING TO ASTM A123 UNLESS NOTED OTHERWISE. BOLTS, NUTS AND WASHERS FOR GALVANIZED CONSTRUCTION SHALL BE HOT-DIP GALVANIZED CONFORMING TO ASTM A123.

STRUCTURAL ABBREVIATIONS

ALT	ALTERNATE	HPC	HIGH PERFORMANCE COATING
ALUM	ALUMINUM	HK	HOOK
B	BOTTOM	HT	HEIGHT
BLDG	BUILDING	ID	INSIDE DIAMETER
BM	BEAM	IE	INVERT ELEVATION
BSMT	BASEMENT	IF	INSIDE FACE
CJ	CONSTRUCTION JOINT	IN	INCHES
CL	CENTERLINE	INT	INTERIOR
CLR	CLEAR	JT	JOINT
COL	COLUMN	KIP	THOUSAND POUNDS
CONC	CONCRETE	KSI	KIPS PER SQUARE INCH
CONST	CONSTANT	KB	KNEE BRACE
CONSTR	CONSTRUCTION	LP	LOW POINT
CONT	CONTINUOUS	LGTH	LENGTH
CLSM	CONTROLLED LOW STRENGTH MATERIAL	MAX	MAXIMUM
		MIN	MINIMUM
COR	CORNER	MCP	MULTIPLE CORROSION PROTECTION
CY	CUBIC YARD	MO	MASONRY OPENING
DBR	DOWEL BAR REPLACEMENT	NDOR	NEBRASKA DEPT. OF ROADS
DET	DETAIL	NF	NEAR FACE
DIA	DIAMETER	NS	NEAR SIDE
DIAG	DIAGONAL	NTS	NOT TO SCALE
DISC	DISCONTINUOUS	NIC	NOT IN CONTRACT
DIST	DISTANCE	OC	ON CENTER
DWLS	DOWELS	OD	OUTSIDE DIAMETER
EJ	EXPANSION JOINT	OF	OUTSIDE FACE
EE	EACH END	OPNG	OPENING
EF	EACH FACE	PSF	POUNDS PER SQ. FOOT
ES	EACH SIDE	PSI	POUNDS PER SQUARE INCH
EW	EACH WAY	REINF	REINFORCEMENT
EA	EACH	RE	REFER TO
EL	ELEVATION	REM	REMOVABLE
EX	EXISTING	SHTS	SHEETS
EXT	EXTERIOR/ EXTENSION	SIM	SIMILAR
FC	FILLET CONCRETE	SJ	SLAB CONTROL JOINT
FD	FLOOR DRAIN	SS	STAINLESS STEEL
FF	FAR FACE	STIR	STIRRUPS
FS	FAR SIDE	STRUCT	STRUCTURAL
FIN	FINISH	T/	TOP
FL	FLOOR	TERS	TEMPORARY EARTH RETENTION SYSTEM
FND	FOUNDATION	TOS	ELEVATION TOP OF STRUCTURAL STEEL
FT	FEET		
GALV	GALVANIZED		
GR	GRADE	TYP	TYPICAL
GWV	GROSS VEHICLE WEIGHT	UNO	UNLESS NOTED OTHERWISE
H	HORIZONTAL		
HC	HOLLOW CORE	V	VERTICAL
HP	HIGH POINT	WP	WORK POINT

BAR SIZE	TENSION LAP LENGTH	* TOP BARS
#3	16"	22"
#4	20"	29"
#5	24"	36"
#6	29"	43"
#7	42"	63"
#8	48"	72"
#9	54"	81"
#10	61"	91"
#11	67"	101"

NOTES:

- ABOVE TABLE IS FOR NORMAL WEIGHT CONCRETE; $f'_c=4500$ PSI AND REINFORCING STEEL; $f_y=60,000$ PSI.
- ALL SPLICES SHALL BE CONSIDERED TENSION SPLICES USING LAP LENGTHS IN TABLE ABOVE UNLESS SPECIFICALLY SHOWN OTHERWISE ON THE DRAWINGS.
- LENGTHS ARE BASED ON LAP CLASS B SPLICES WITH CENTER TO CENTER SPACING OF BARS GREATER THAN 6 DIAMETERS.
- TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12" OF CONCRETE CAST UNDER THEM.
- USE TENSION LAP LENGTHS FOR HORIZ & VERT WALL BARS.

PROJECT MANAGER: C:\P\WORK\10616278\SCN-PLIS- STRUCTURAL NOTES.DWG - S-01 - PLOTTED: 7/26/2016 2:31 PM BY: WELLMAN, AARON

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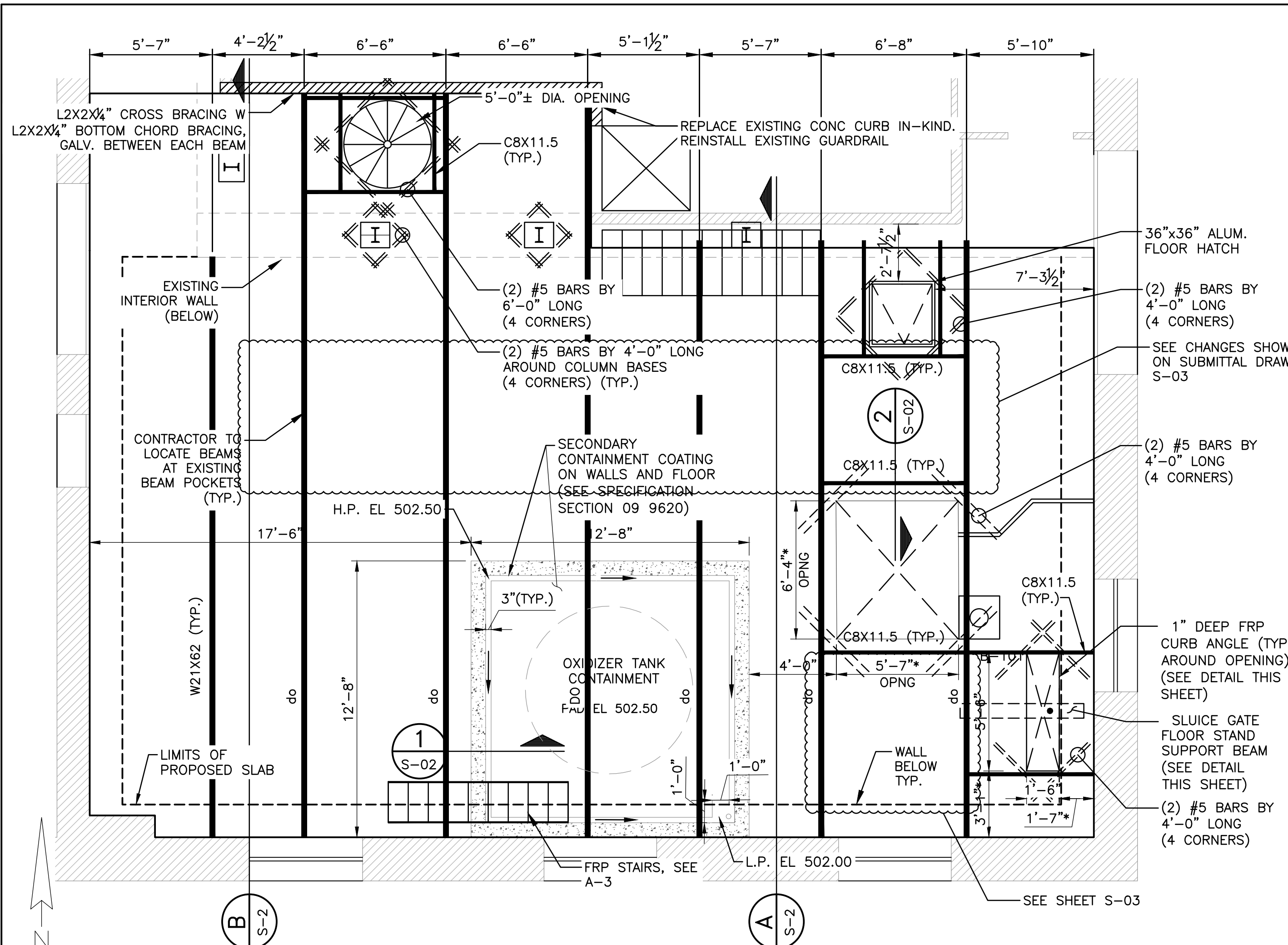
NORTHERN KENTUCKY WATER DISTRICT

STRUCTURAL NOTES

ISSUED FOR:	DATE:	BY:
50% REVIEW	2/29/16	KMK
90% REVIEW	4/18/16	KMK
100% REVIEW	5/16/16	KMK
BID	6/03/16	KMK
CONSTRUCTION RECORD	2/28/18	KMK

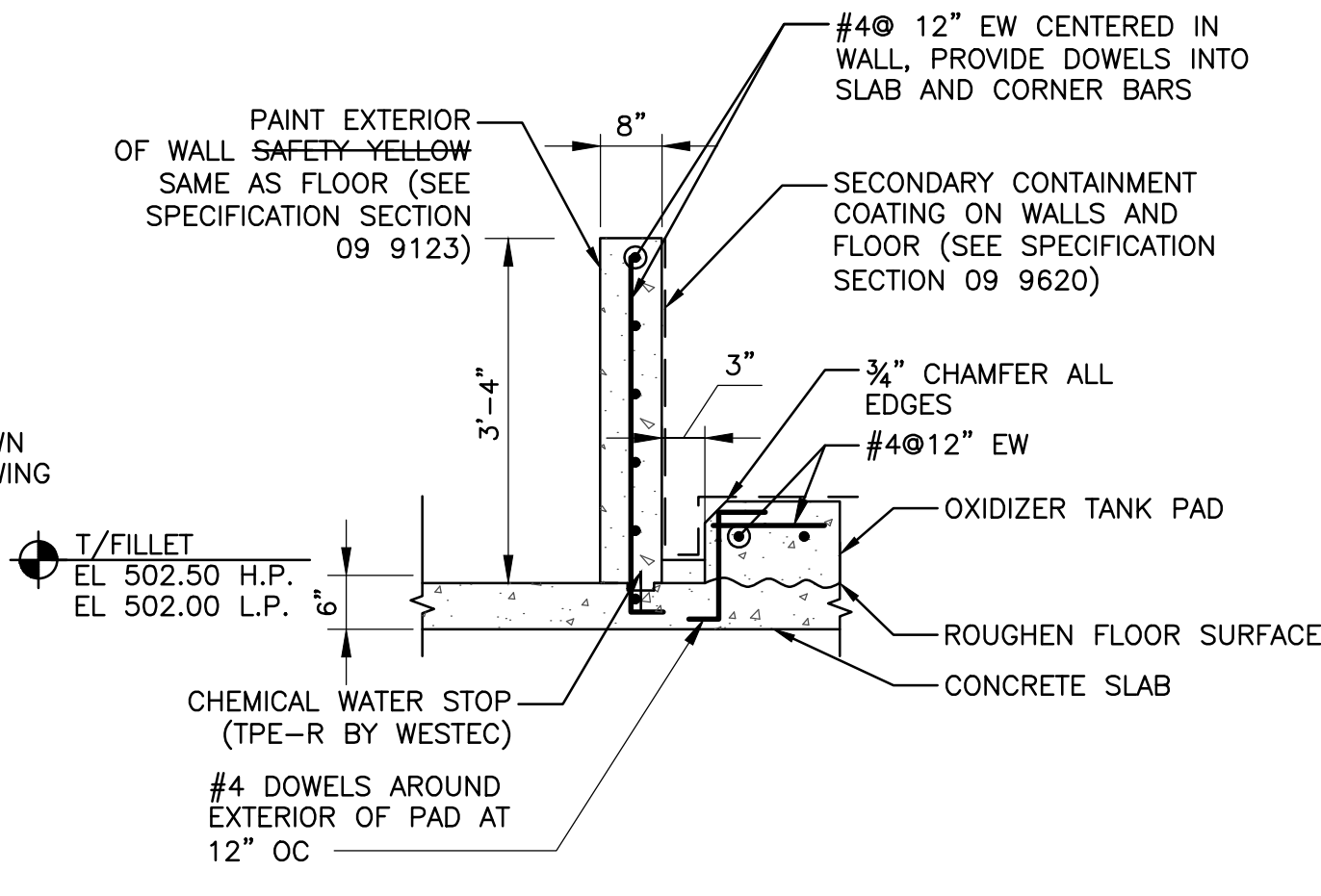
JOB NO.
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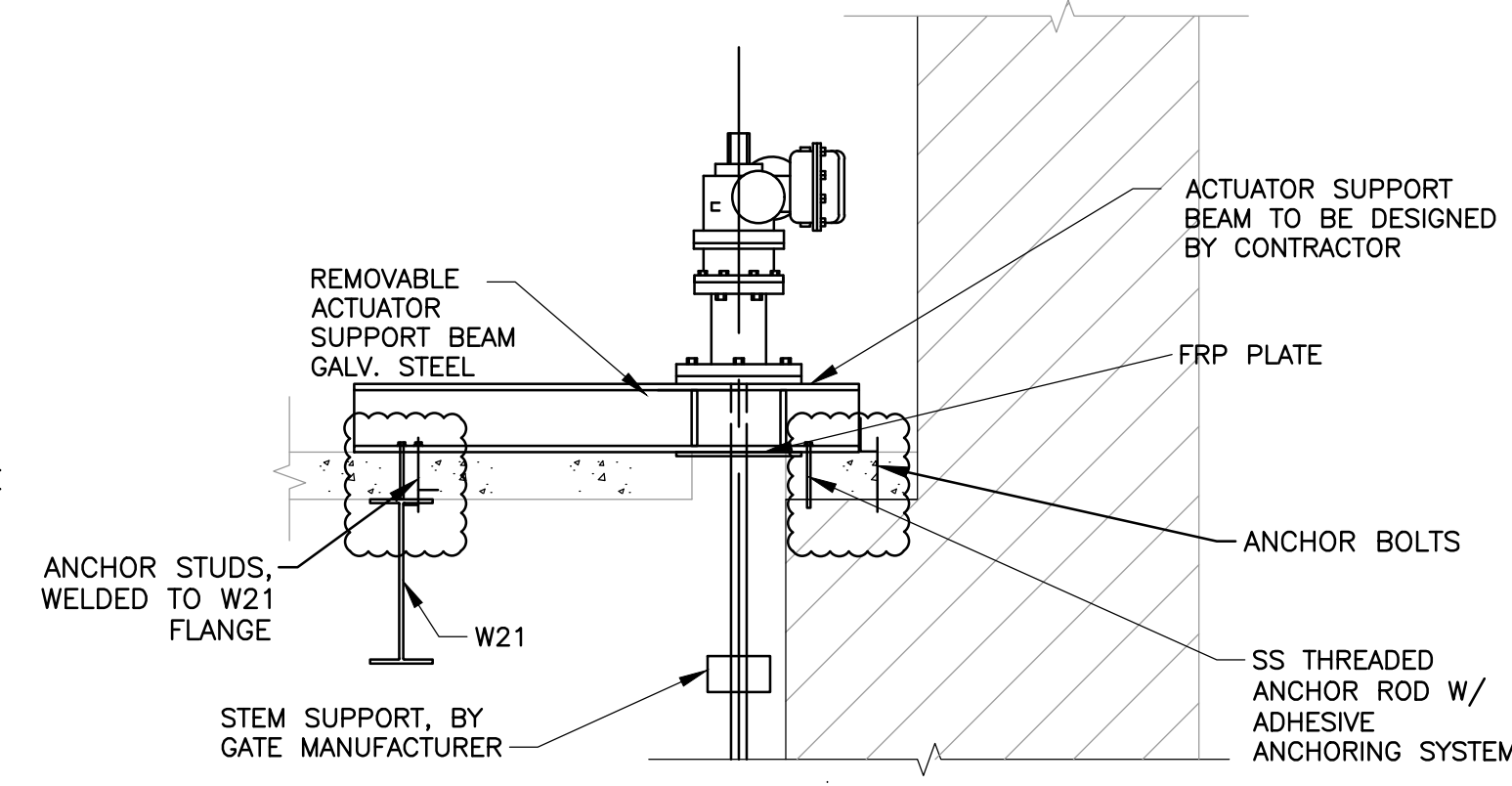


PARTIAL PUMP ROOM FLOOR PLAN EL 501.83 - PROPOSED
SCALE: 1/4" = 1'-0"

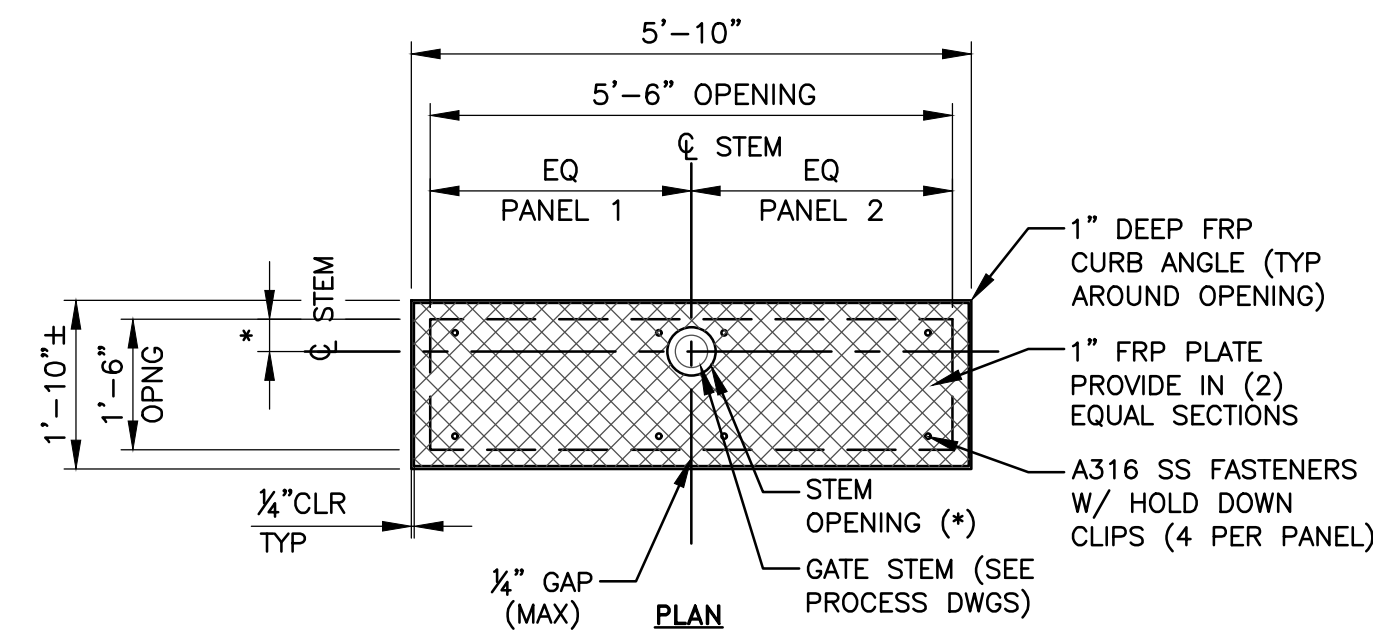
NOTE: ALL BEAMS TO BE GALVANIZED IN ACCORDANCE WITH ASTM A123 AND PAINTED IN ACCORDANCE WITH SECTION 09 9123.



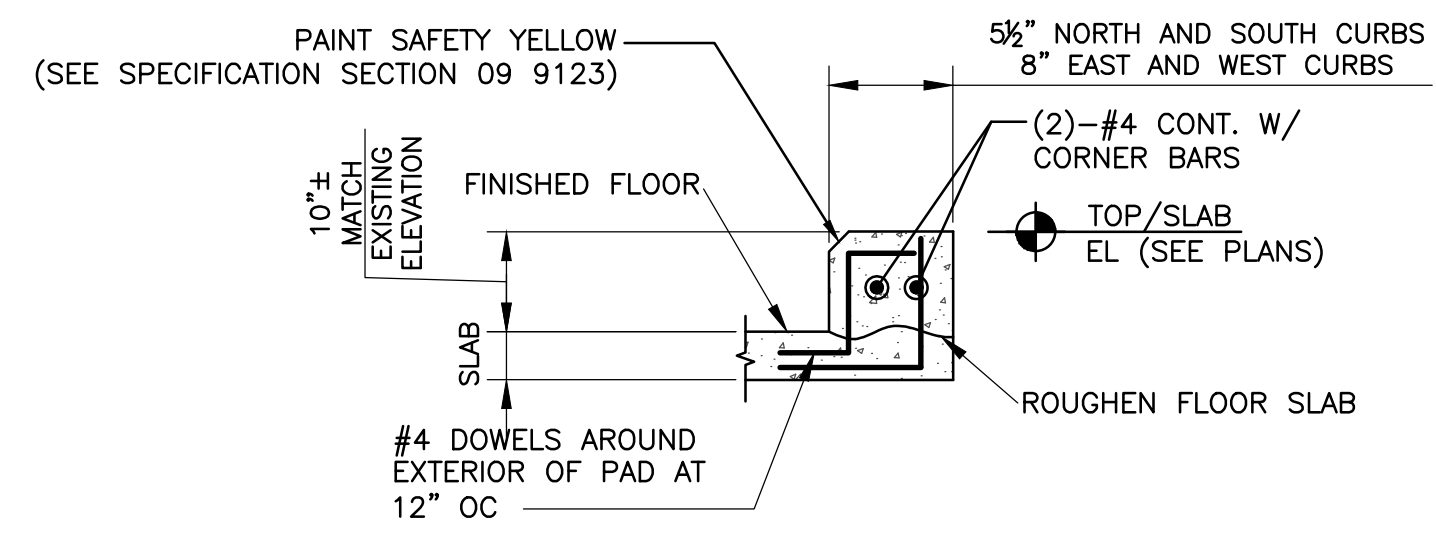
TYPICAL CONTAINMENT WALL DETAIL 1
SCALE: NONE



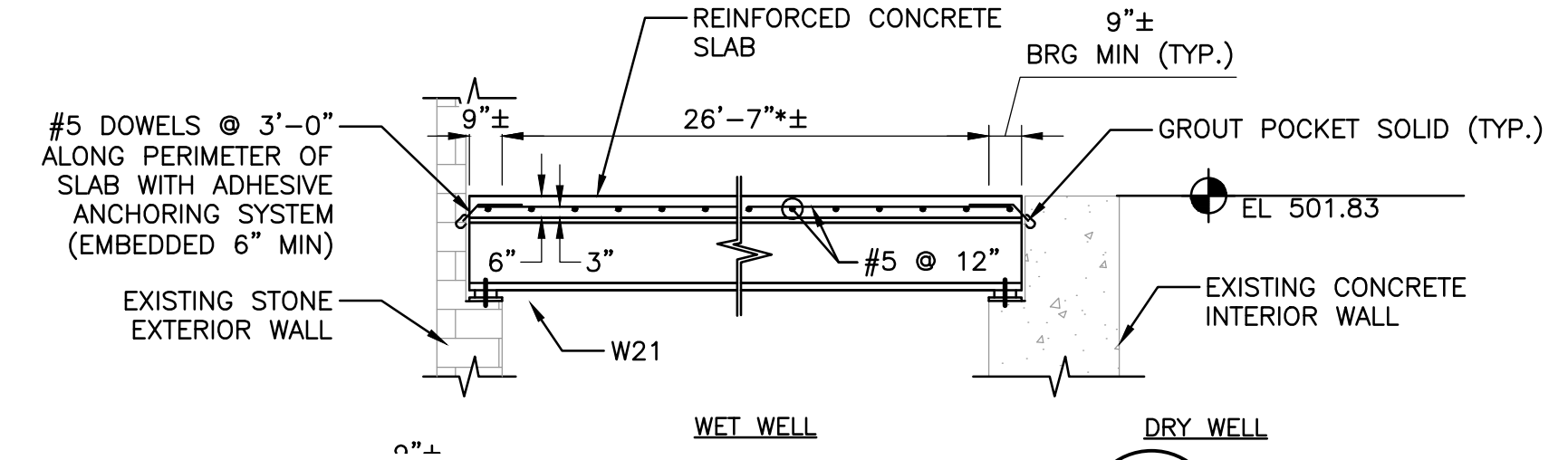
FLOOR STAND SUPPORT BEAM SECTION
SCALE: 1/2" = 1'-0"



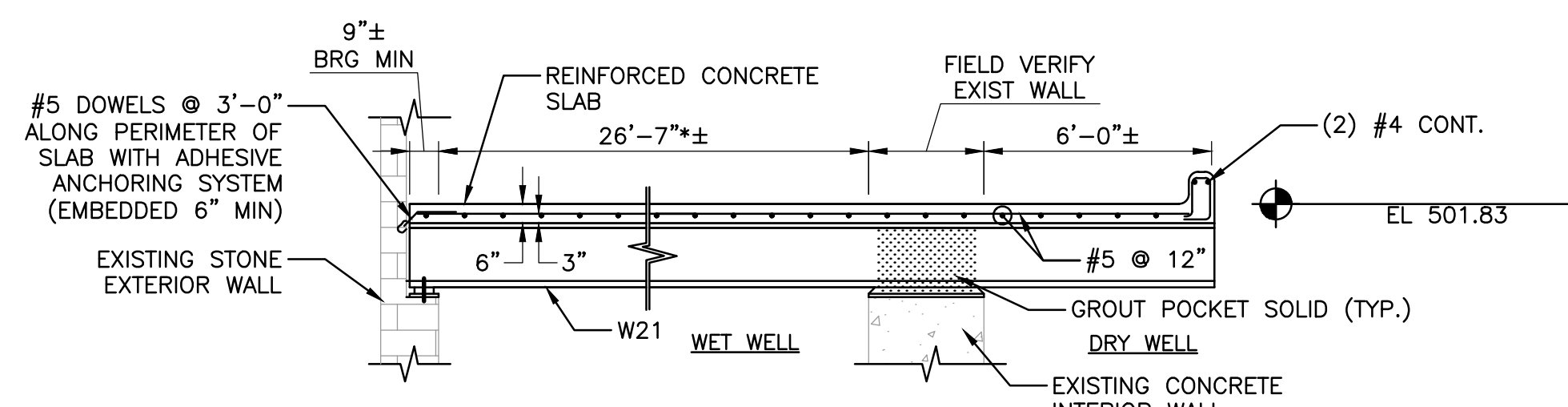
FRP COVER PLATE DETAIL
SCALE: 1/2" = 1'-0"



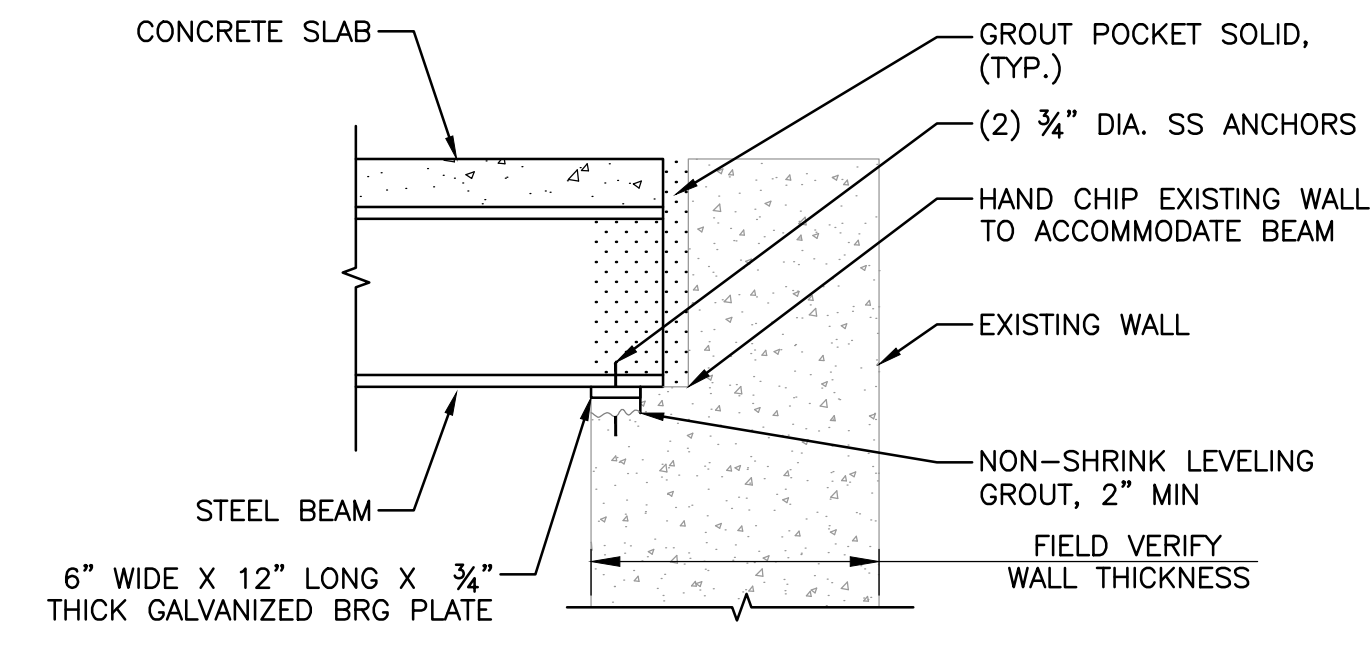
SCREEN CURB
SCALE: 1/2" = 1'-0"



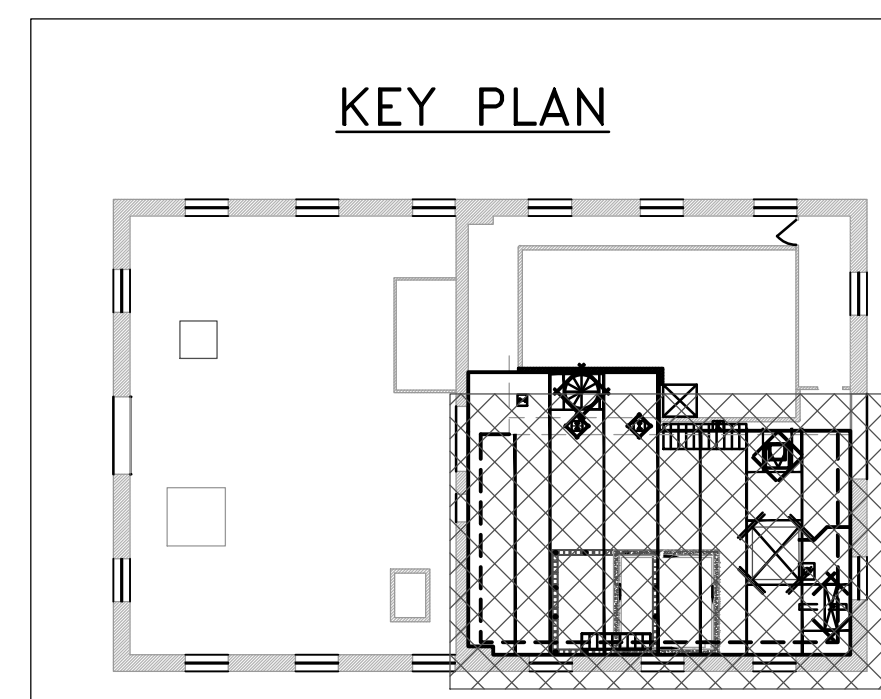
SECTION - PROPOSED A
SCALE: 1/4" = 1'-0"



SECTION - PROPOSED B
SCALE: 1/4" = 1'-0"



TYPICAL BEAM POCKET DETAIL
SCALE: 1/2" = 1'-0"



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NORTHERN KENTUCKY WATER DISTRICT
STRUCTURAL PLAN AND DETAILS - PROPOSED

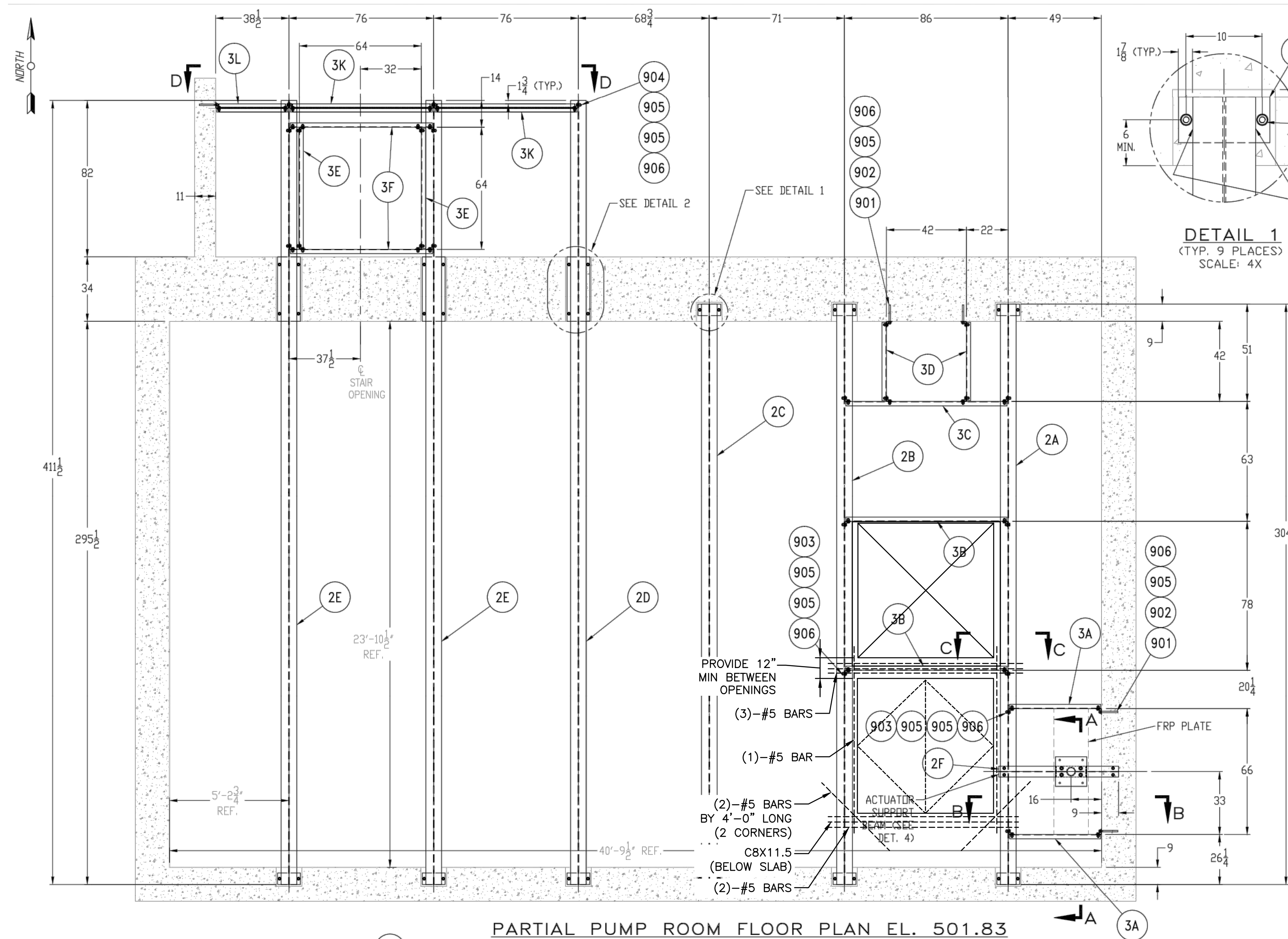
ISSUED FOR: DATE: BY:
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BID 6/03/16 KMK
CONSTRUCTION/26/17 KMK
RECORD 2/28/18 KMK

JOB NO. NKW2001-01H
SHEET S-02

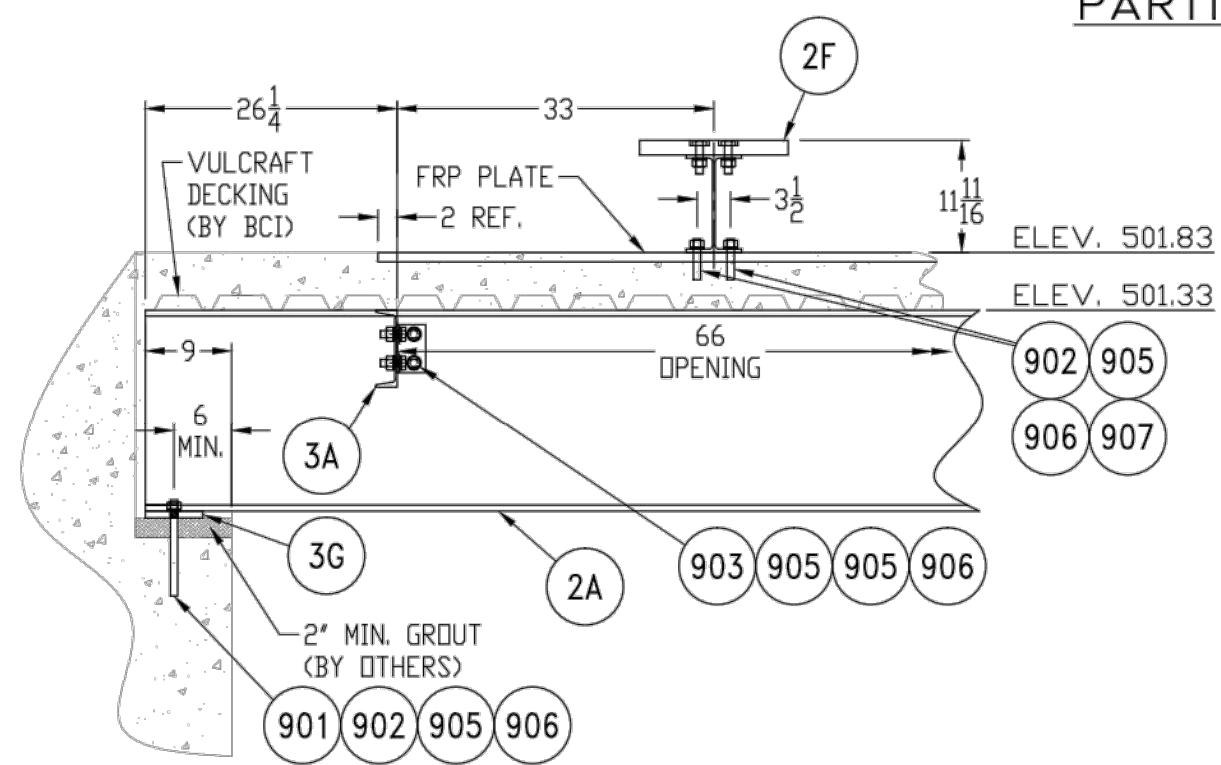
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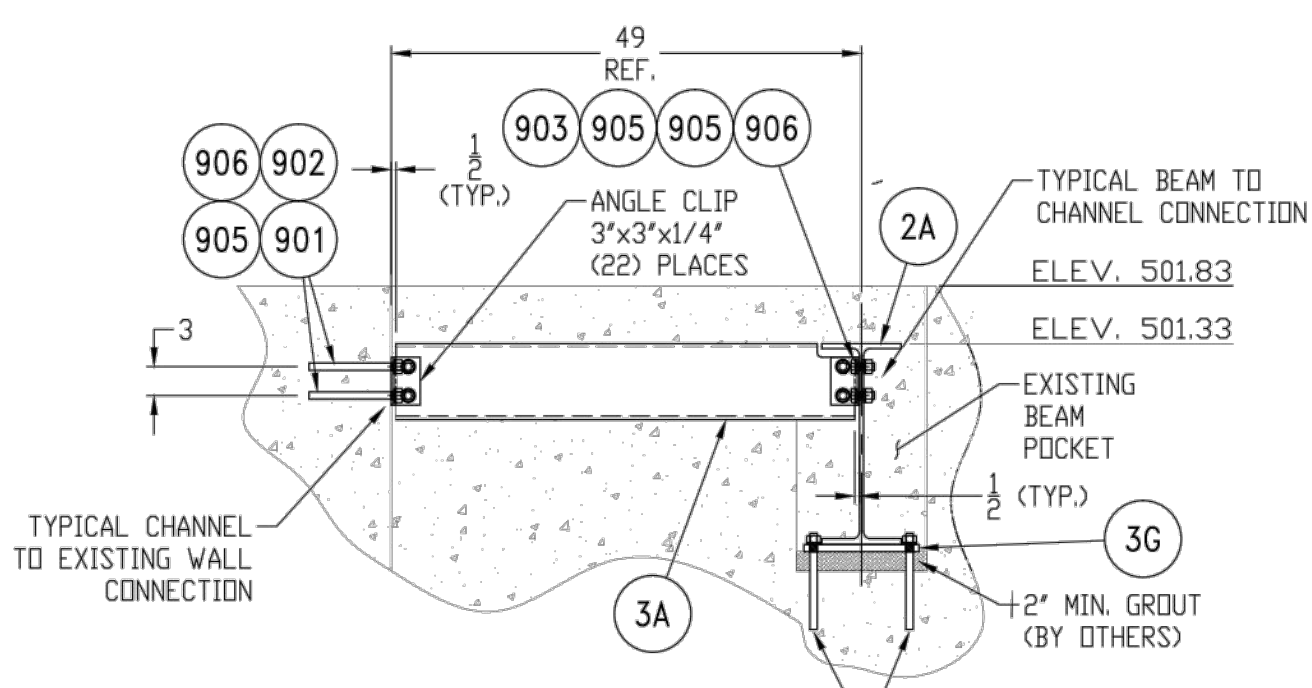
PROJECT MANAGER: C:\PL\WORK\2\0618278\SP-PLIS-BEAM AND CHANNEL SUPPORT LAYOUT.DWG - S-03 - PLOTTED 7/26/2018 2:02 PM BY: WELLMAN, ARON



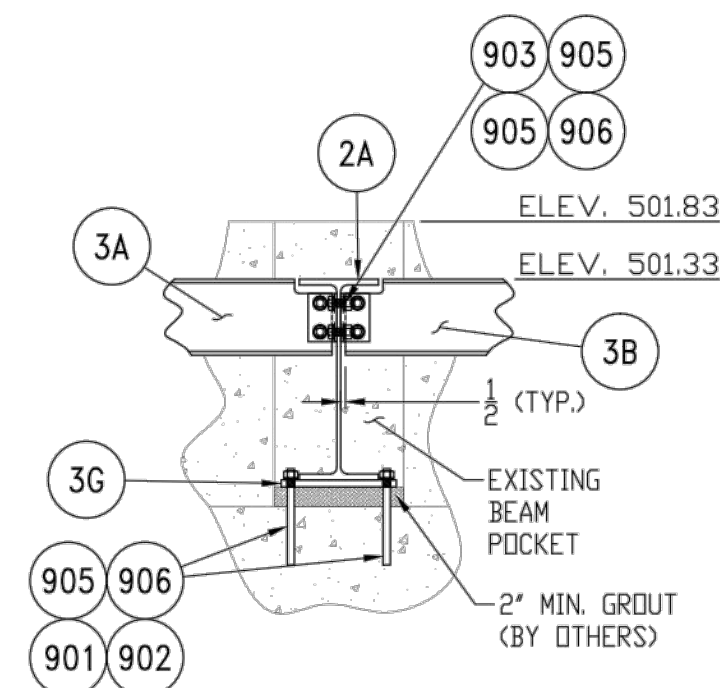
PARTIAL PUMP ROOM FLOOR PLAN EL. 501.83



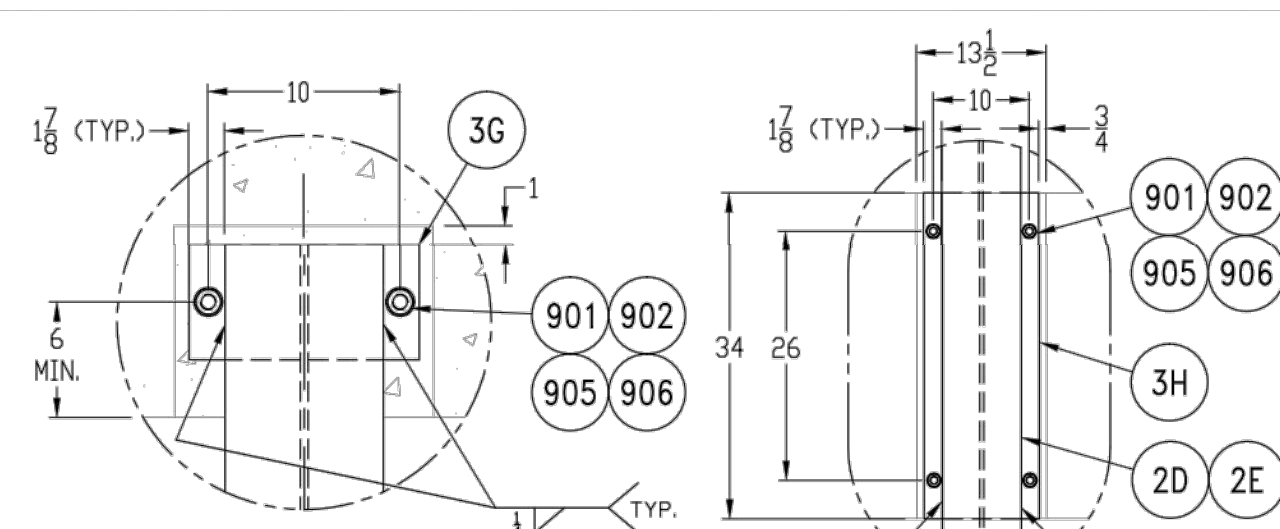
SECTION A-A SCALE: 2X



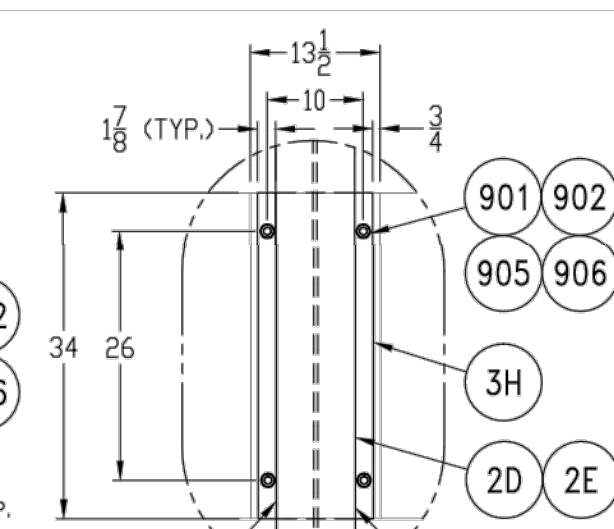
SECTION B-B SCALE: 2X



SECTION C-C SCALE: 2X



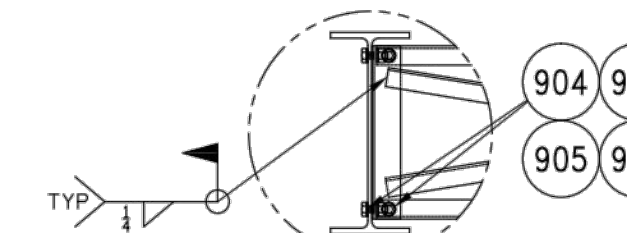
DETAIL 1 (TYP. 9 PLACES) SCALE: 4X



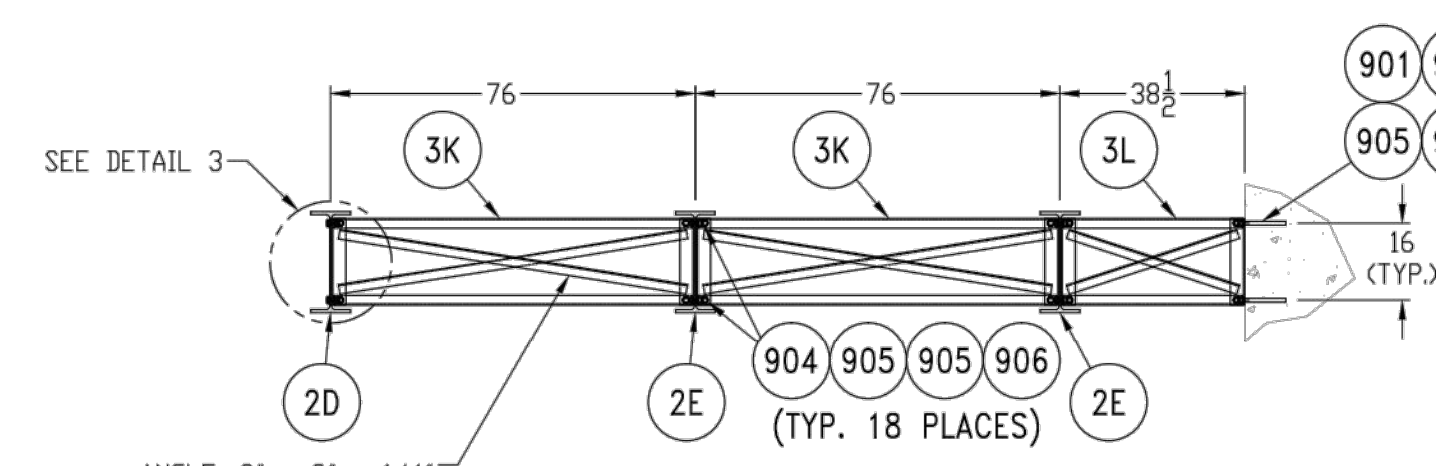
DETAIL 2 (TYP. 3 PLACES) SCALE: 2X

REL	REV	BY	DESCRIPTION OF CHANGE	DATE
-	0	MSG	SUBMITTED FOR APPROVAL	9-21-16
-	1	MSG	SUBMITTED FOR REVIEW/APPROVAL	10-4-16
-	2	MSG	UPDATED FIELD DIMS, SUBMITTED FOR REVIEW/APPROVAL	11-3-16
-	3	MSG	UPDATED FIELD DIMS, RESUBMITTED FOR REVIEW/APPROVAL	11-4-16
-	4	MSG	UPDATED FIELD DIMS, RESUBMITTED FOR REVIEW/APPROVAL	11-4-16
-	5	MSG	REMOVED FIELD WELDS FROM DETAILS 1 & 2	1-31-17
-	6	MSG	SS HARDWARE, MOVE BEAM 2D 2 1/4" EAST, DETAIL 4	2-13-17
1	A	MSG	RELEASE FOR FABRICATION	2-14-17

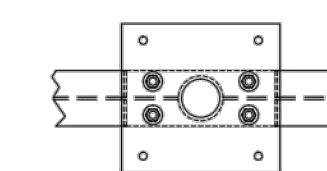
NOTE: PERFORM FIELD WELD AFTER HORIZONTAL & VERTICAL ANGLES ARE BOLTED TOGETHER TO I-BEAMS.



DETAIL 3 (TYP. 12 PLACES) SCALE: 2X



VIEW D-D (TYP. 18 PLACES)



DETAIL 4 SCALE: 2X

- NOTES:
1. "FIELD VERIFY" DIMENSIONS TO BE CONFIRMED BY OTHERS BEFORE FABRICATION.
 2. ALL FASTENERS USED IN FABRICATION TO BE S.S.
 3. ANCHOR RODS TO BE 3/4" DIA STAINLESS STEEL W/ ANCHORING ADHESIVE UNLESS OTHERWISE NOTED.
 4. QUANTITY OF FASTENERS SHOWN REFLECTS AN ADDITIONAL 5% FOR SPARES.
 5. ALL STRUCTURAL STEEL COMPONENTS TO BE HOT DIP GALVANIZED.

ITEM NO	QTY	DESCRIPTION	LENGTH	MATERIAL	WEIGHT	REMARKS
907	5	THREADED ROD, 3/4"-10, F593 Gr 18-8 SS	4 1/4"	10		
906	92	HEX. NUT, 3/4"-10, F594 Gr 18-8 SS		30		
905	137	FLAT WASHER, 3/4", 18-8 SS		40		
904	19	HEX. BOLT, 3/4"-10 x 2 1/4" LONG, F593 Gr 18-8 SS	2 1/4"	12		
903	38	HEX. BOLT, 3/4"-10 x 2" LONG, F593 Gr 18-8 SS	2"	40		
902	2	ES HIGH STRENGTH EPOXY (RED HEAD) - 22 OZ.		2		
901	42	THREADED ROD, 3/4"-10, F593 Gr 18-8 SS	10"	47		
3L	1	ANGLE ASSEMBLY, (SHIP LOOSE)	38 5/16"	STEEL/GALV	72	16-01321-003
3K	2	ANGLE ASSEMBLY, (SHIP LOOSE)	75 5/8"	STEEL/GALV	224	16-01321-003
3H	3	PLATE, 3/4"	12"x34"	STEEL/GALV	276	16-01321-002
3G	9	PLATE, 3/4"	12"x6"	STEEL/GALV	144	16-01321-002
3F	2	CHANNEL ASSEMBLY, C8x11.5 (SHIP LOOSE)	74 5/8"	STEEL/GALV	182	16-01321-003
3E	2	CHANNEL ASSEMBLY, C8x11.5 (SHIP LOOSE)	63"	STEEL/GALV	158	16-01321-003
3D	2	CHANNEL ASSEMBLY, C8x11.5 (SHIP LOOSE)	41"	STEEL/GALV	114	16-01321-003
3C	1	CHANNEL ASSEMBLY, C8x11.5 (SHIP LOOSE)	84 5/8"	STEEL/GALV	100	16-01321-003
3B	2	CHANNEL ASSEMBLY, C8x11.5 (SHIP LOOSE)	84 5/8"	STEEL/GALV	200	16-01321-003
3A	2	CHANNEL ASSEMBLY, C8x11.5 (SHIP LOOSE)	47 13/16"	STEEL/GALV	126	16-01321-003
2F	1	BEAM ASSEMBLY, W10x22 (SHIP LOOSE)	63"	STEEL/GALV	247	16-01321-002
2E	2	BEAM ASSEMBLY, W21x62 (SHIP LOOSE)	411 1/2"	STEEL/GALV	4,258	16-01321-002
2D	1	BEAM ASSEMBLY, W21x62 (SHIP LOOSE)	411 1/2"	STEEL/GALV	2,129	16-01321-002
2C	1	BEAM ASSEMBLY, W21x62 (SHIP LOOSE)	304 1/2"	STEEL/GALV	1,574	16-01321-002
2B	1	BEAM ASSEMBLY, W21x62 (SHIP LOOSE)	304 1/2"	STEEL/GALV	1,574	16-01321-002
2A	1	BEAM ASSEMBLY, W21x62 (SHIP LOOSE)	304 1/2"	STEEL/GALV	1,574	16-01321-002

NORTHERN KENTUCKY WATER DISTRICT
BEAM AND CHANNEL SUPPORT LAYOUT - SUBMITTAL

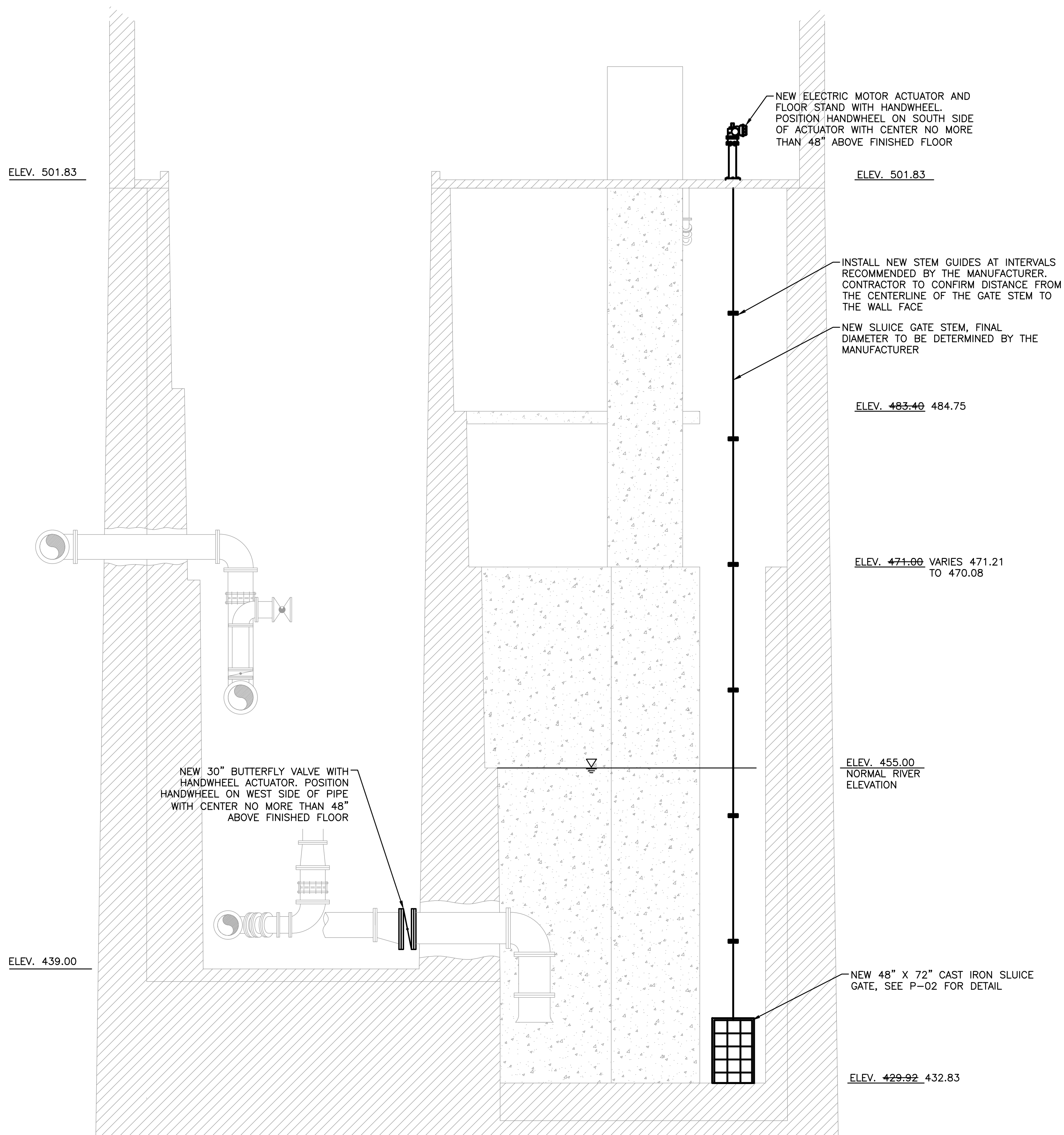
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50% REVIEW 2/29/16 KMK
90% REVIEW 4/18/16 KMK
100% REVIEW 5/16/16 KMK
BID 6/03/16 KMK
CONSTRUCTION/26/17 KMK
RECORD 2/28/18 KMK

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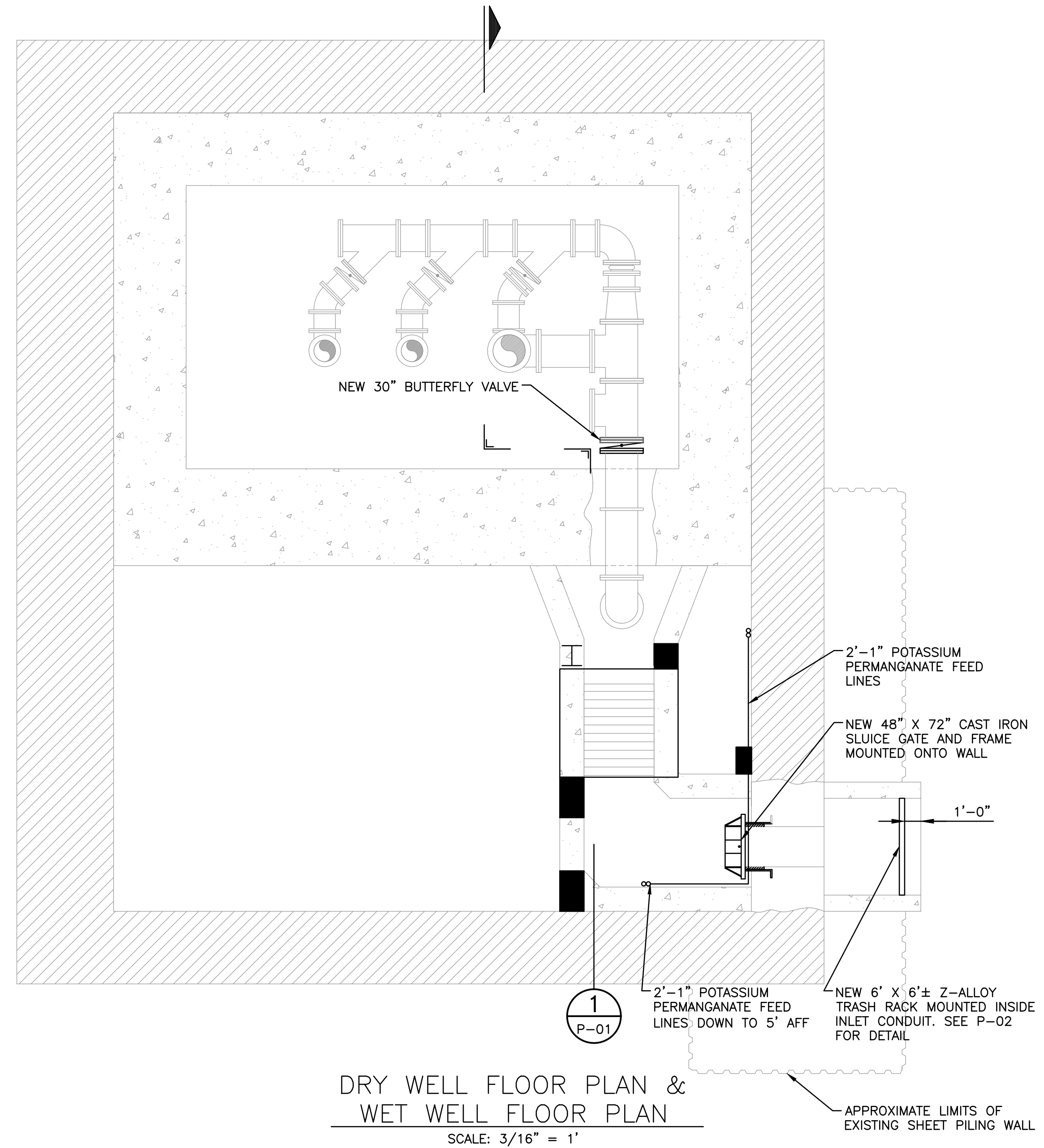
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PROJECT MANAGER: C:\PL\WORK\2\0618278\PP-P-01 - PLOTTED 7/29/2018 2:02 PM BY WELLMAN, AARON



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

1
P-01



DRY WELL FLOOR PLAN &
WET WELL FLOOR PLAN
SCALE: 3/16" = 1'

REV#	DATE	DESCRIPTION	BY

--

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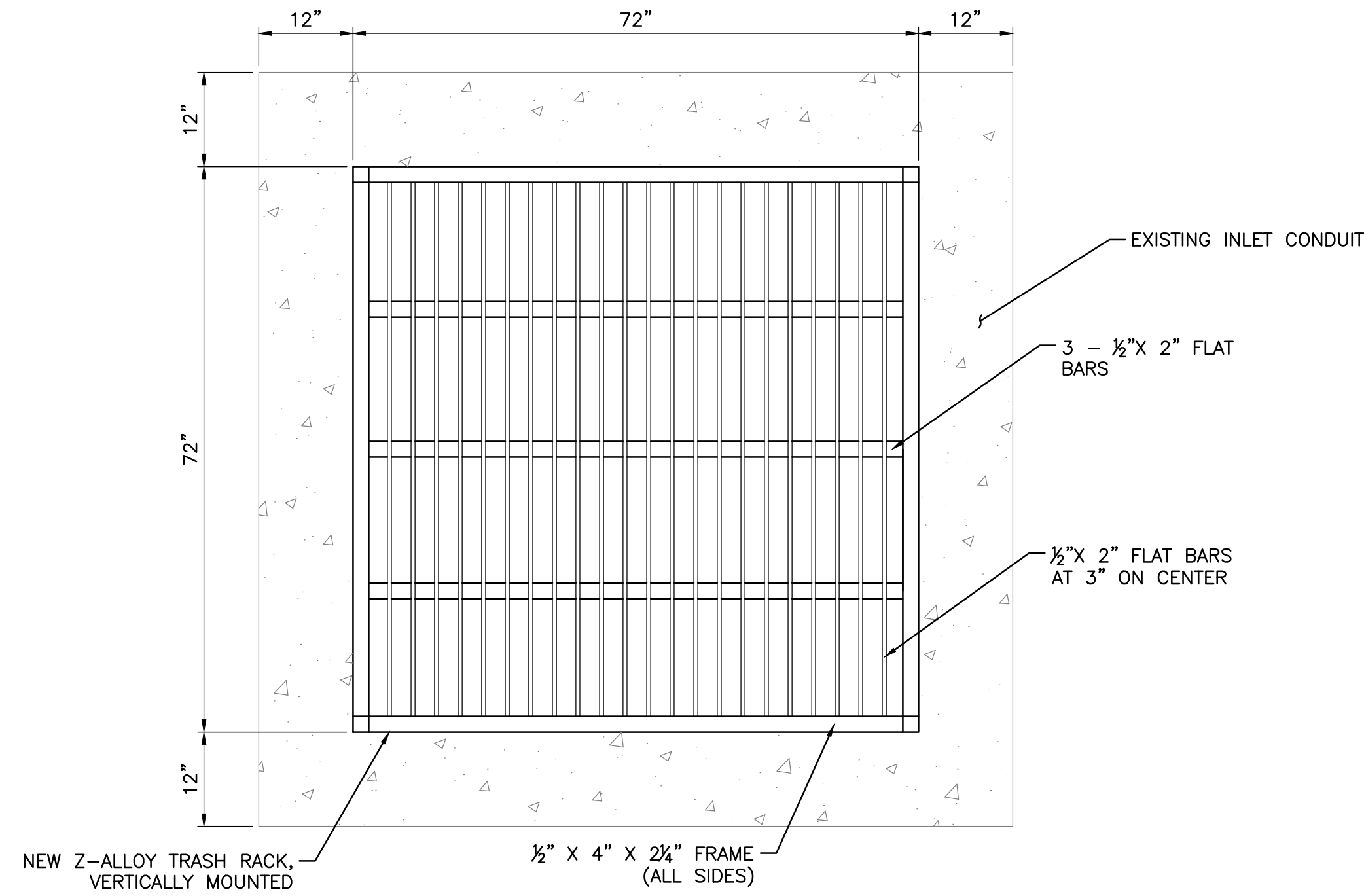
NORTHERN KENTUCKY WATER DISTRICT
PROCESS IMPROVEMENTS

ISSUED FOR:	DATE:	BY:
50% REVIEW	2/29/16	KMK
90% REVIEW	4/18/16	KMK
100% REVIEW	5/16/16	KMK
BID	6/03/16	KMK
CONSTRUCTION/RECORD	2/28/18	KMK

JOB NO.
NKW2001-01H

SHEET
P-01

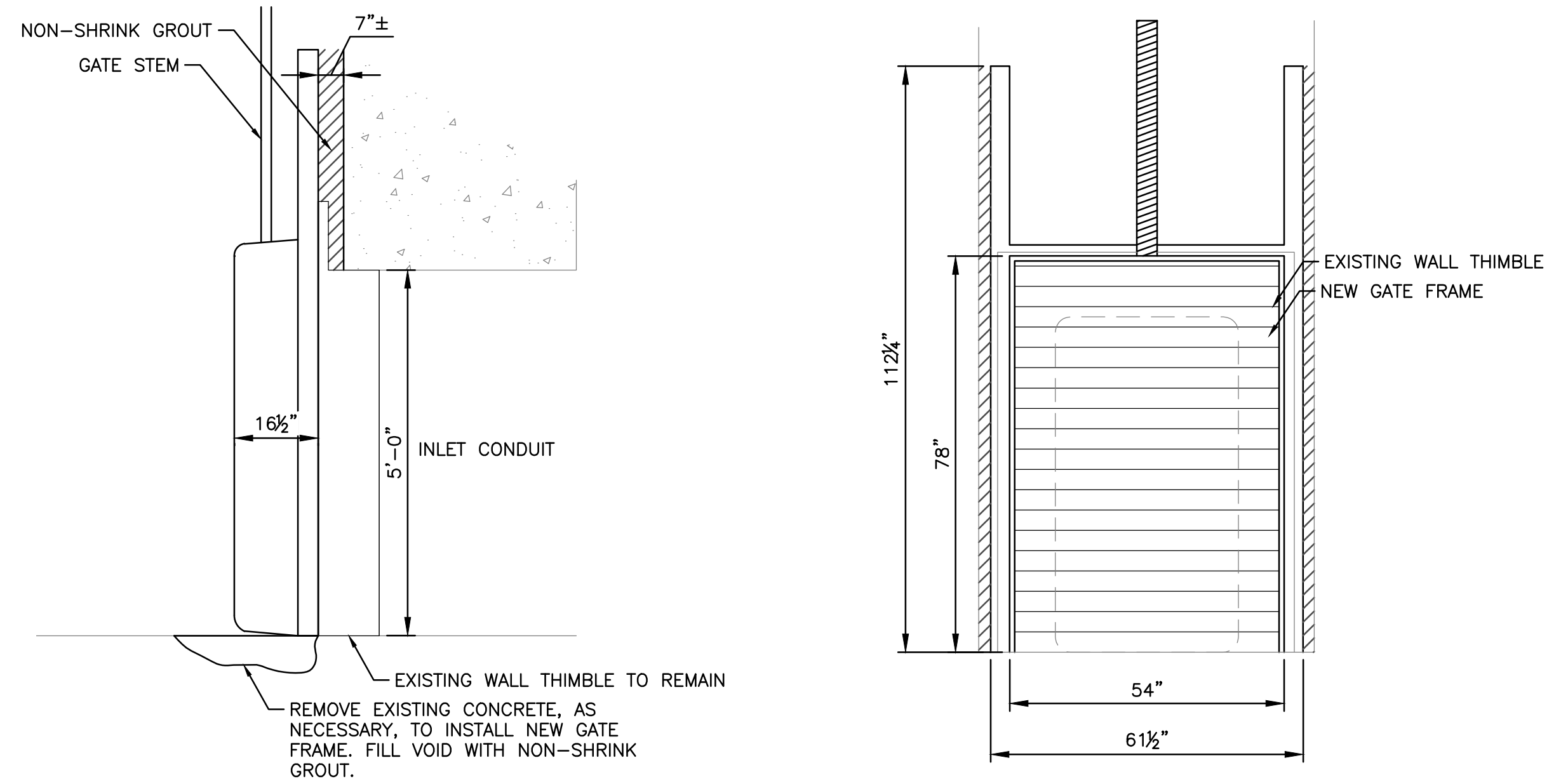
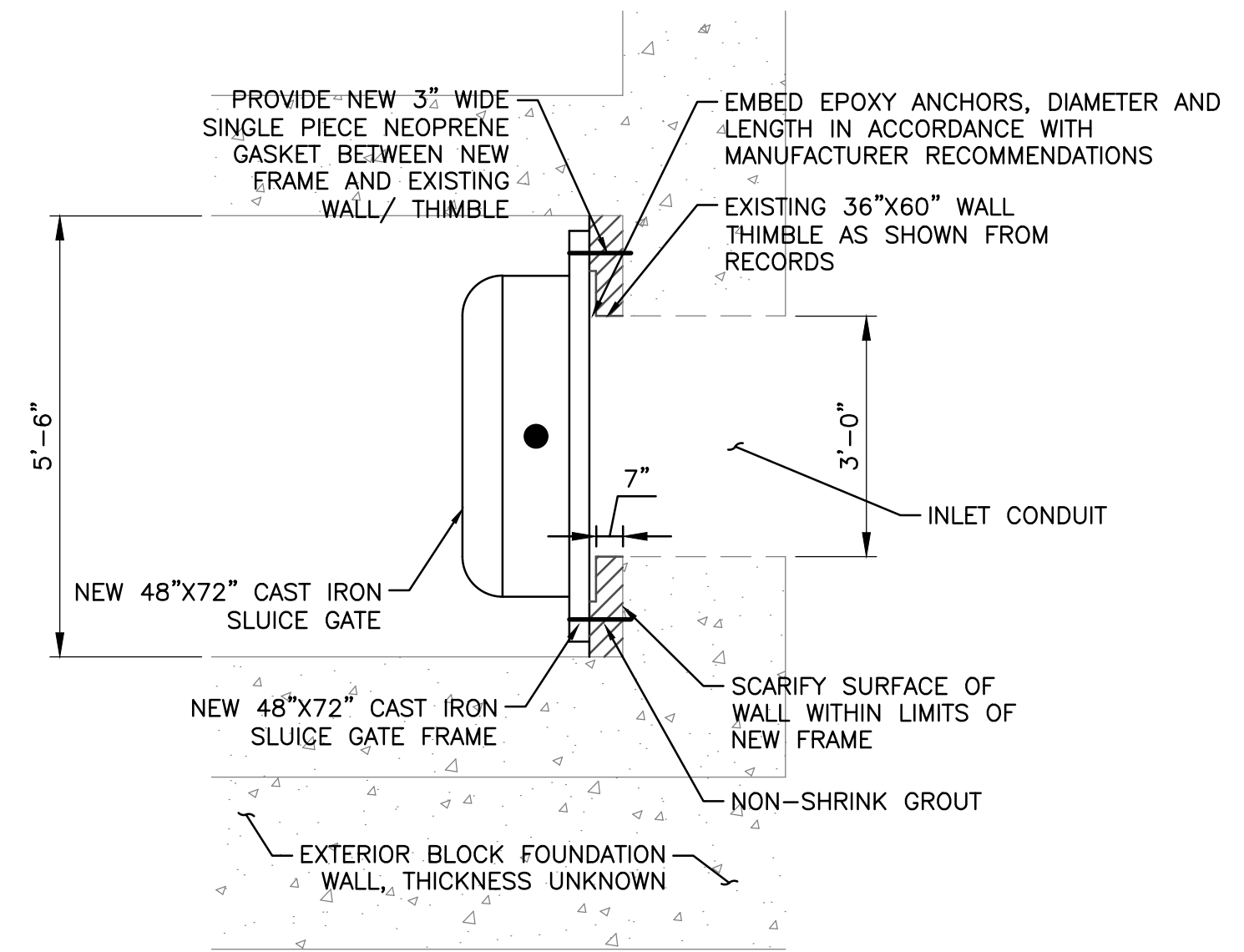
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TRASH RACK INSTALLATION DETAIL
SCALE: 3/4"=1'-0"

NOTES:

1. DIMENSIONS SHOWN ARE BASED ON AVAILABLE RECORD INFORMATION. CONTRACTOR TO FIELD VERIFY THE INTERIOR DIMENSIONS OF THE CONDUIT BEFORE ORDERING TRASH RACK FABRICATION.
2. ALL COMPONENTS OF NEW TRASH RACK TO BE CONSTRUCTED OF Z-ALLOY.
3. USE UNDERWATER EPOXY ANCHORS WITH 3/4" 316SS THREADED ROD, EMBEDDED A MINIMUM OF 8", WITH 316SS NUTS AND WASHERS.



SLUICE GATE INSTALLATION DETAIL
SCALE: NONE

PROJECT MANAGER: FIELD BOOK INFORMATION: PLOTTED: 7/26/2018 2:02 PM BY: WELLMAN, AARON

REV#	DATE	DESCRIPTION	BY

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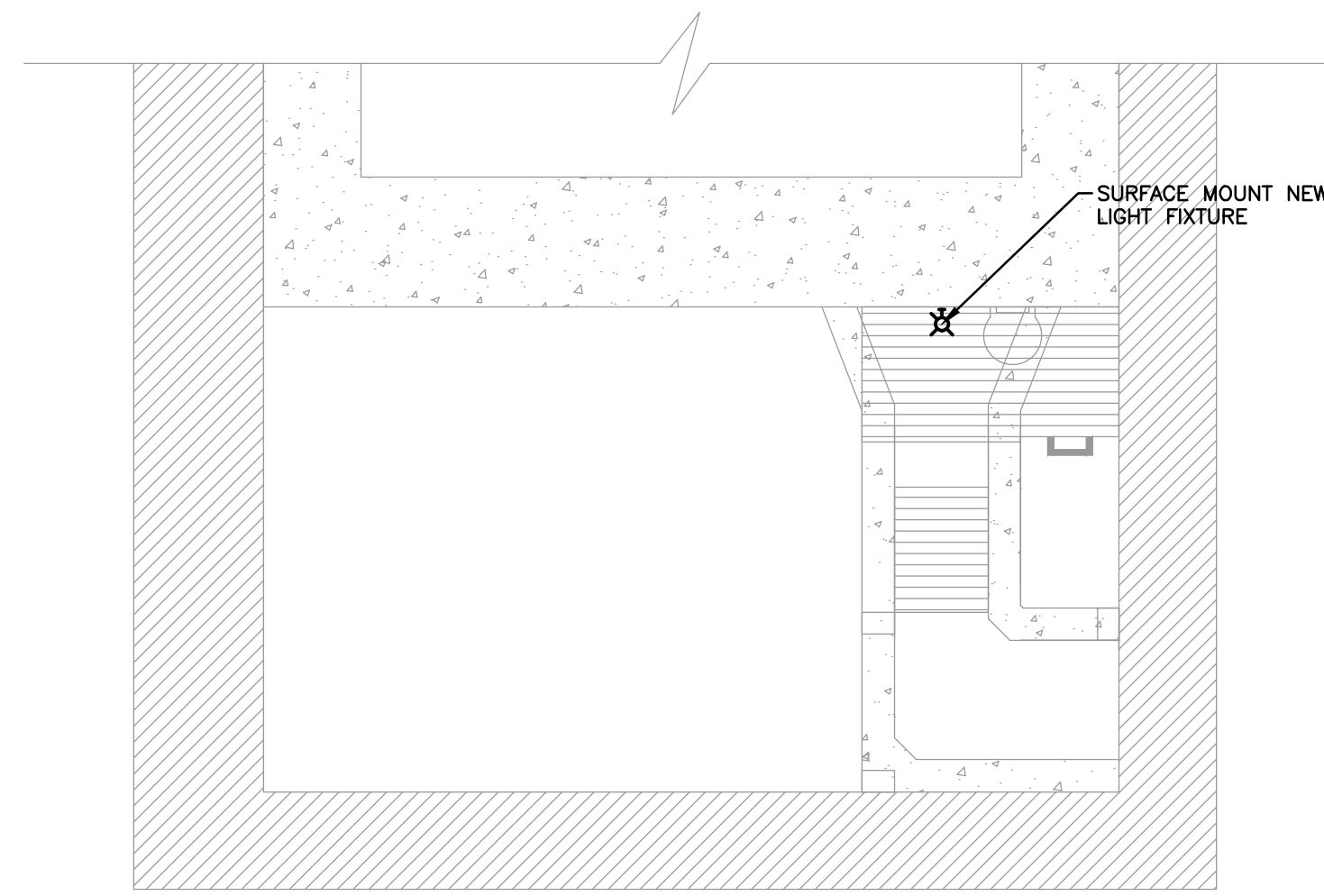
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PROCESS DETAILS

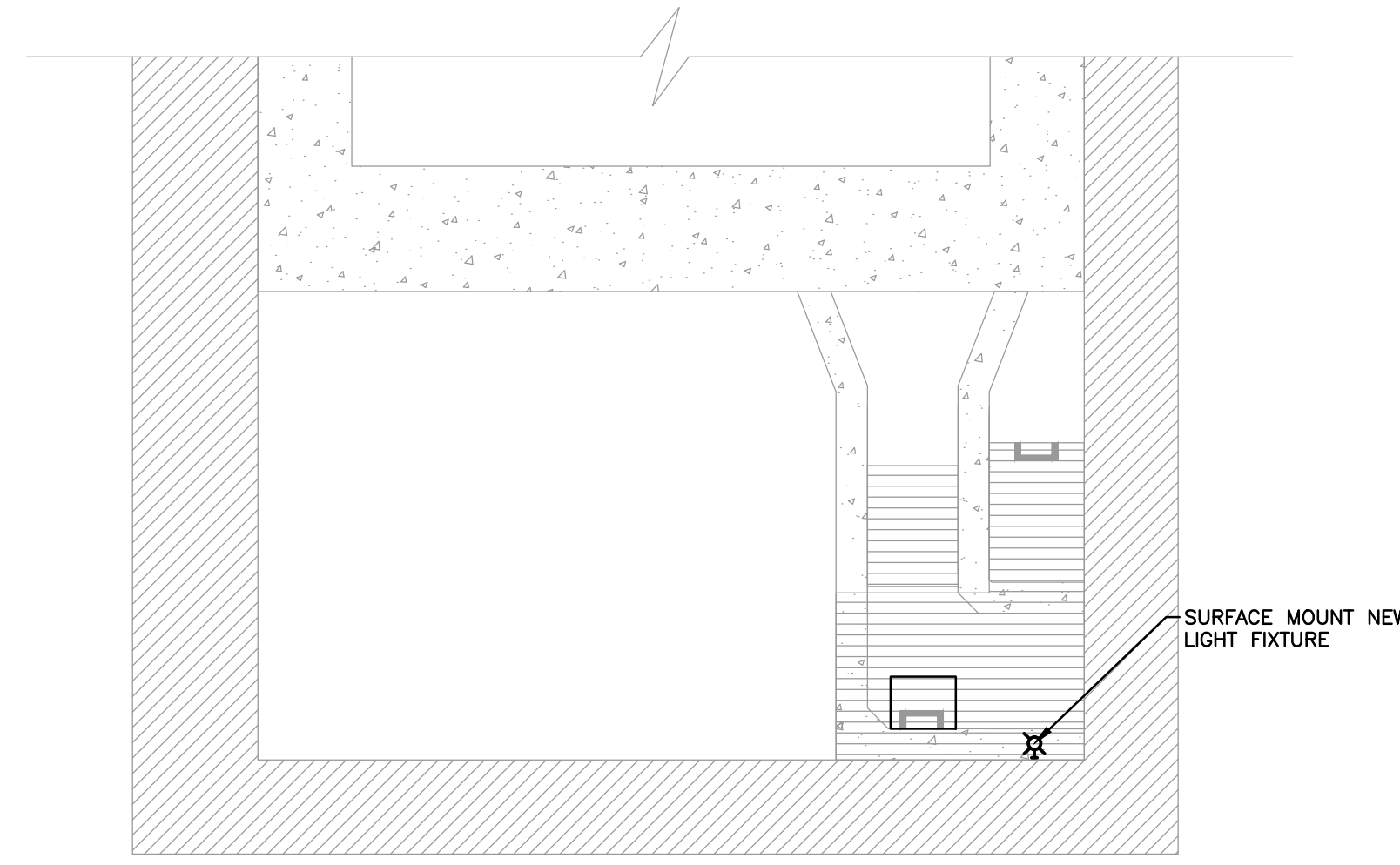
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100% REVIEW	5/16/16	KMK
BID	6/03/16	KMK
CONSTRUCTION RECORD	2/28/18	KMK

JOB NO.
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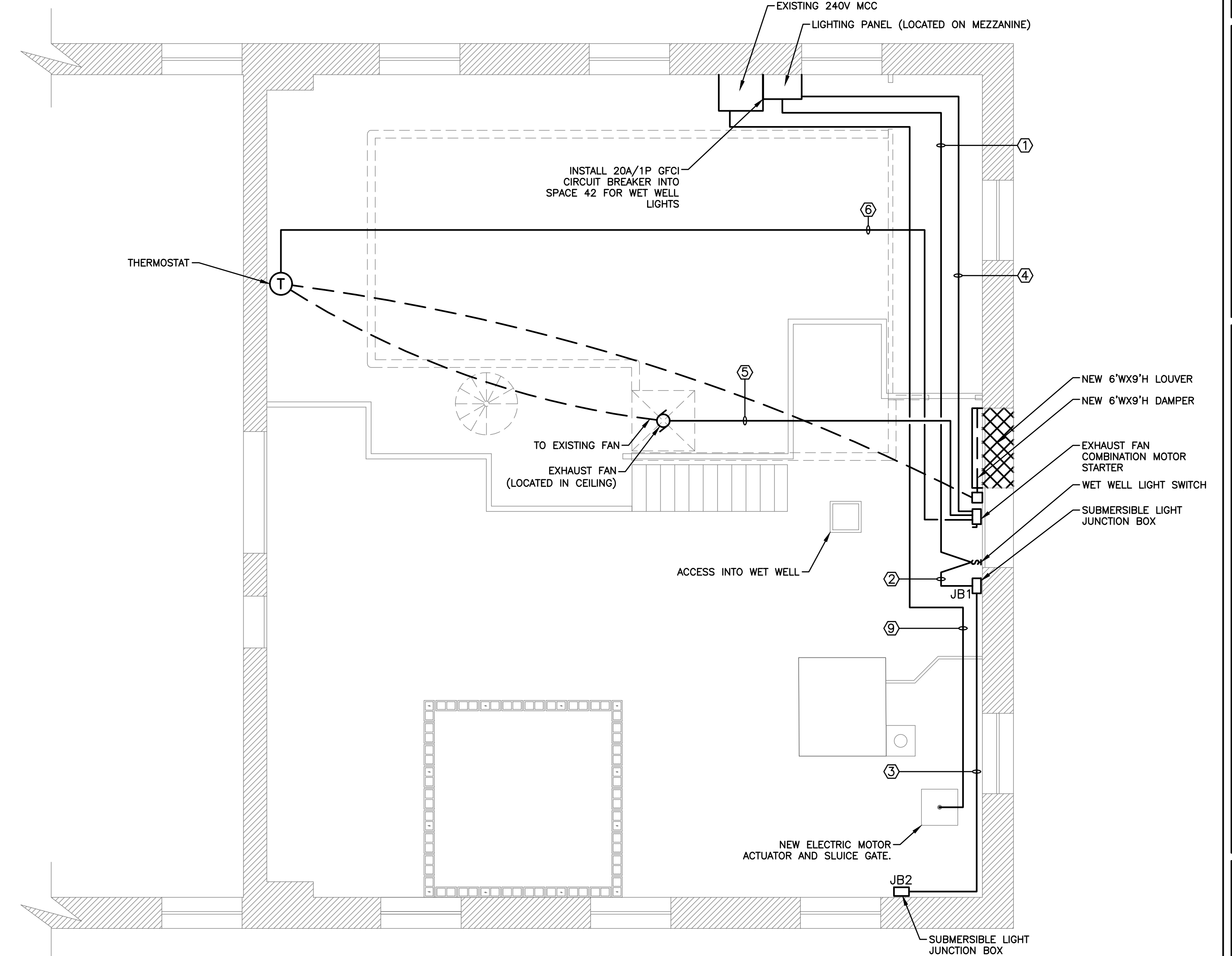
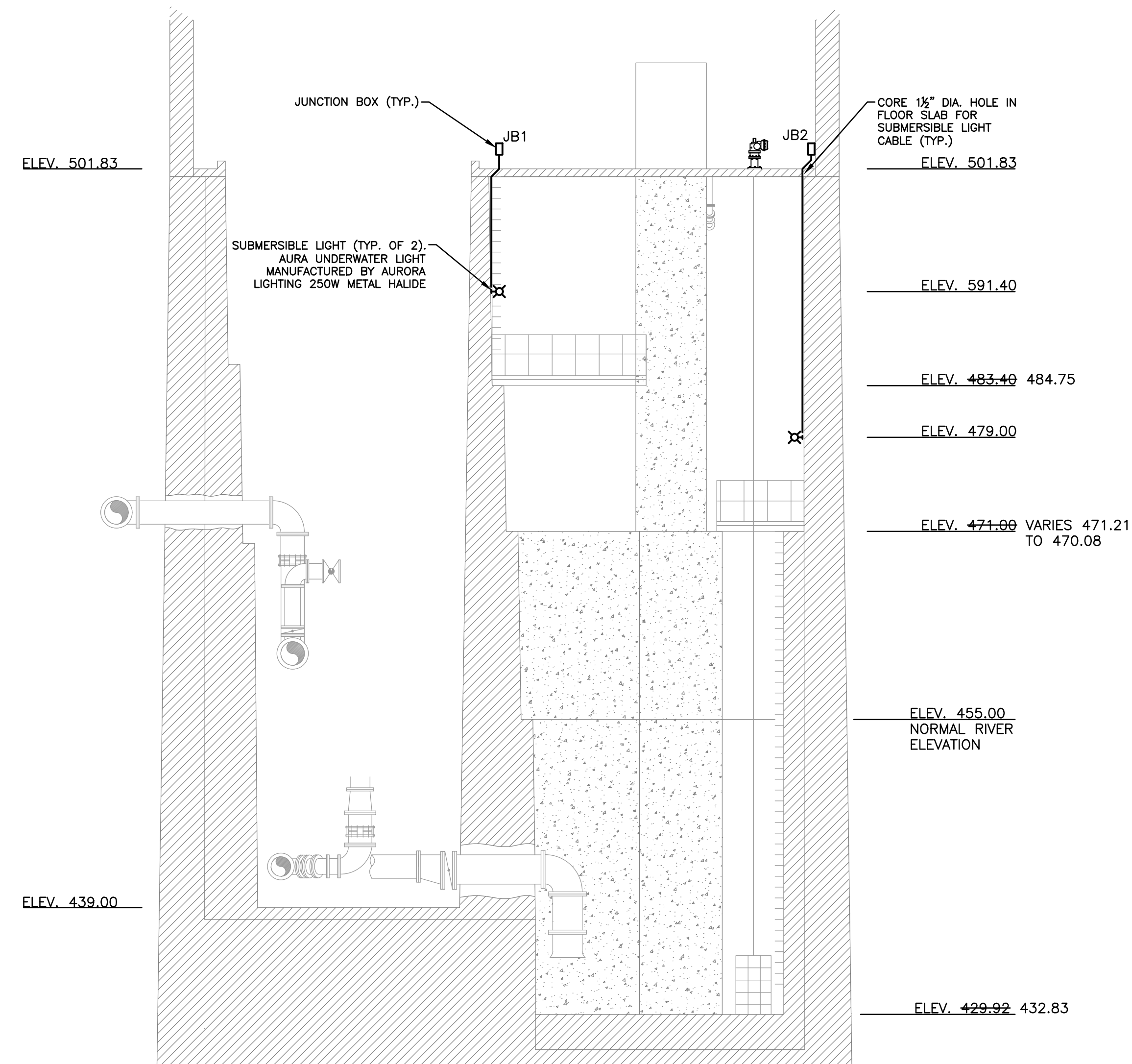
SHEET
P-02



PLAN ELEV. 483.40



PLAN ELEV. 471.00



EXHAUST FAN/ DAMPER CONTROL SEQUENCE:
 ON A CALL FOR COOLING BY THERMOSTAT T-1, THE DAMPERS SHALL OPEN. UPON PROVING OPEN, THE EXISTING EXHAUST FAN SHALL ENERGIZE. WHEN THE SETPOINT HAS BEEN MET, THE FAN SHALL DE-ENERGIZE AND THE DAMPERS SHALL CLOSE.

PROJECT MANAGER: FIELD 86% INFORMATION: PLOTTED 7/26/2018 2:03 PM BY: WELLMAN, AARON

REV#	DATE	DESCRIPTION	BY

--

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FLOOR PLAN LIGHTING PLAN

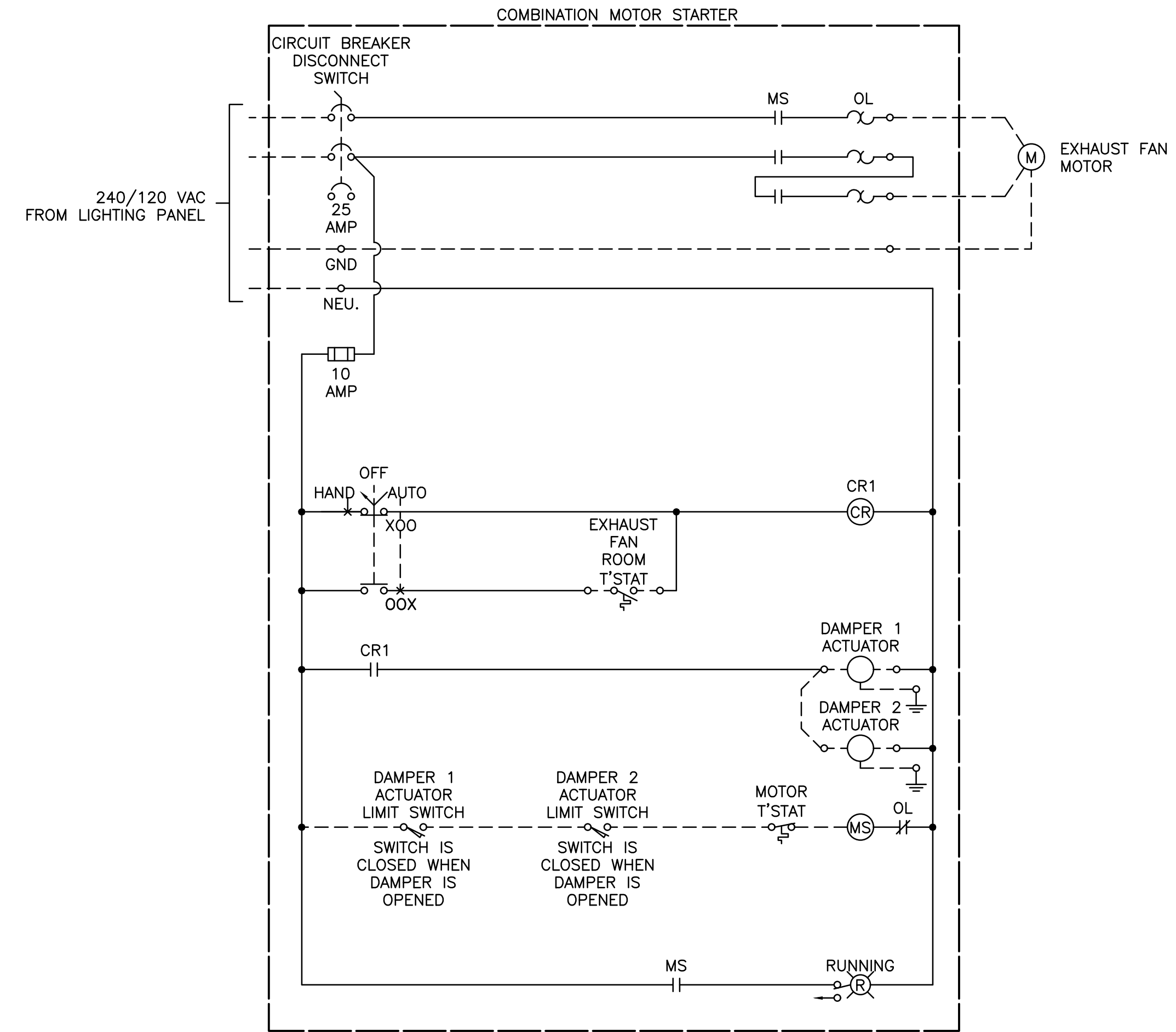
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100% REVIEW	5/16/16	KMK
BID	6/03/16	KMK
CONSTRUCTION RECORD	2/28/18	KMK

JOB NO. NKW2001-01H

SHEET E-01

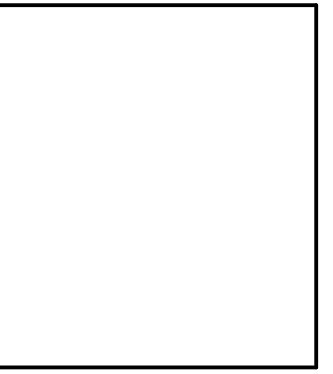
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CABLE SCHEDULE									
NO.	CONDUIT LABEL	FROM	TO	CONDUIT SIZE	TYPE	CABLE QTY. AND SIZE	VOLT	TYPE	COMMENTS
1	WWLTS-PWR-1	LIGHTING PANEL	LIGHT SWITCH	3/4"	RGS	2#12 + 1#12 GND	600	THWN-2	120V. POWER
2	WWLTS-PWR-2	LIGHT SWITCH	JB1	3/4"	RGS	2#12 + 1#12 GND	600	THWN-2	120V. POWER
3	WWLTS-PWR-3		JB2	3/4"	RGS	2#12 + 1#12 GND	600	THWN-2	120V. POWER
4	EFAN-PWR-1	LIGHTING PANEL	COMB. STARTER	3/4"	RGS	3#10 + 1#10 GND	600	THWN-2	240/120V. POWER
5	EFAN-PWR-2	COMB. STARTER	EXHAUST FAN	3/4"	RGS	2#10 + 1#10 GND	600	THWN-2	240V. POWER
6	EFAN-CTRL-1	COMB. STARTER	THERMOSTAT	3/4"	RGS	2#14 + 1#14 GND	600	THWN-2	120V. ROOM THERMOSTAT
7	EFAN-CTRL-2	COMB. STARTER	DAMPER 1	3/4"	RGS	2#14 + 1#14 GND	600	THWN-2	120V. POWER
8	EFAN-CTRL-3	COMB. STARTER	DAMPER 2	3/4"	RGS	2#14 + 1#14 GND	600	THWN-2	120V. POWER
9	SLOT-PWR-1	WWB. STARTER	ACTUATOR	3/4"	RGS	2#10 + 1#10 GND	600	THWN-2	240V. POWER



EXHAUST FAN WIRING DIAGRAM

REV#	DATE	DESCRIPTION	BY



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100% REVIEW	5/16/16	KMK
BID CONSTRUCTION RECORD	6/03/16	KMK
	7/26/17	KMK
	2/28/18	KMK

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E-02