

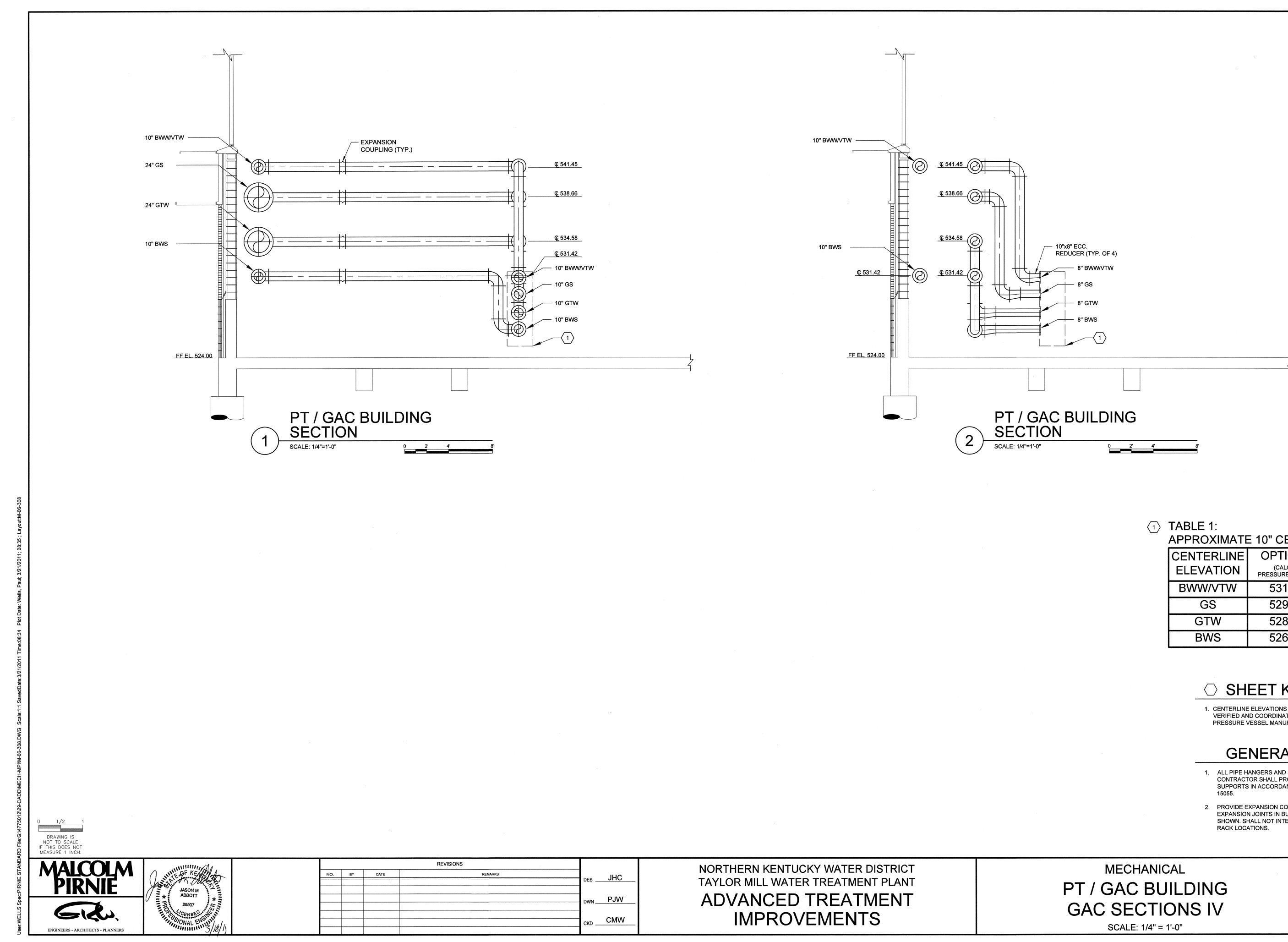
_____ 1" PRESSURE GAUGE 1" AIR PRESSURE REGULATOR

GENERAL NOTES:

1. ALL PIPE HANGERS AND SUPPORTS ARE NOT SHOWN. CONTRACTOR SHALL PROVIDE ALL HANGERS AND SUPPORTS IN ACCORDANCE WITH SPECIFICATION 15055.

MECHANICAL PT / GAC BUILDING GAC SECTIONS III SCALE: 1/4" = 1'-0"

ISSUED ST	ATUS: BID SET
DATE	MARCH, 2011
SHEET	M-06-307
CAD REF. N	NO. <u>M-06-307</u>



NORTHERN KENTUCKY WATER
TAYLOR MILL WATER TREATME
ADVANCED TREAT
IMPROVEMEN

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	DES	JHC
	DWN.	PJW
	CKD .	CMW

APPROXIMATE 10" CENTERLINE ELEVATIONS

CENTERLINE ELEVATION	OPTION 1 (CALGON PRESSURE VESSEL)	OPTION 2 (SIEMENS PRESSURE VESSEL)
BWW/VTW	531.27	532.13
GS	529.76	530.29
GTW	528.06	528.25
BWS	526.55	526.21

○ SHEET KEYNOTES:

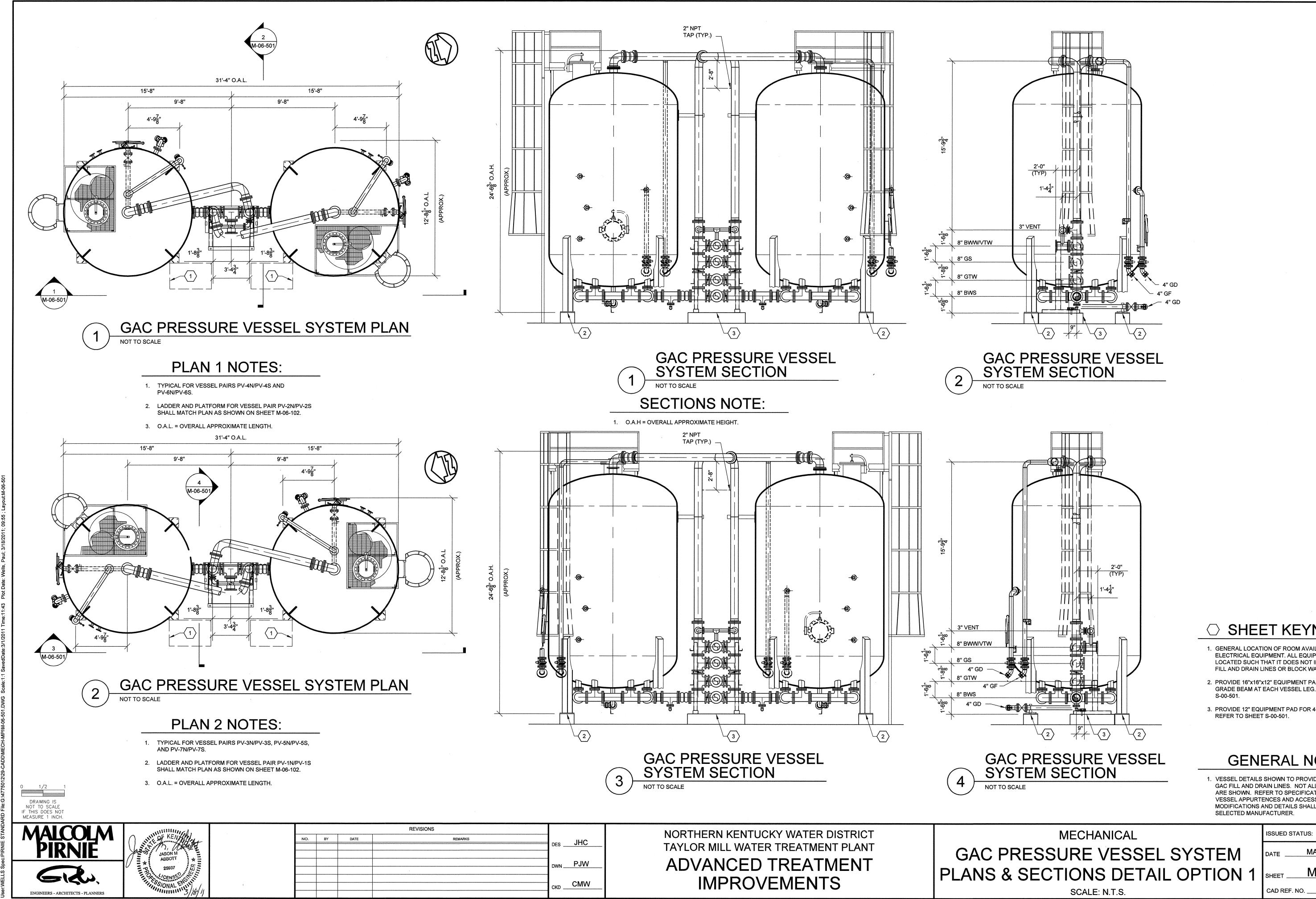
1. CENTERLINE ELEVATIONS OF 8" AND 10" LINES SHALL BE VERIFIED AND COORDINATED WITH SELECTED GAC PRESSURE VESSEL MANUFACTURER.

GENERAL NOTES:

1. ALL PIPE HANGERS AND SUPPORTS ARE NOT SHOWN. CONTRACTOR SHALL PROVIDE ALL HANGERS AND SUPPORTS IN ACCORDANCE WITH SPECIFICATION

2. PROVIDE EXPANSION COUPLINGS AT OR NEAR EXPANSION JOINTS IN BUILDING. GENERAL LOCATIONS SHOWN. SHALL NOT INTERFERE WITH FABRICATED PIPE RACK LOCATIONS.

ISSUED	STATUS: _	BID SET
DATE	MAI	RCH, 2011
SHEET _	M-	06-308
	=. NO	M-06-308



○ SHEET KEYNOTES:

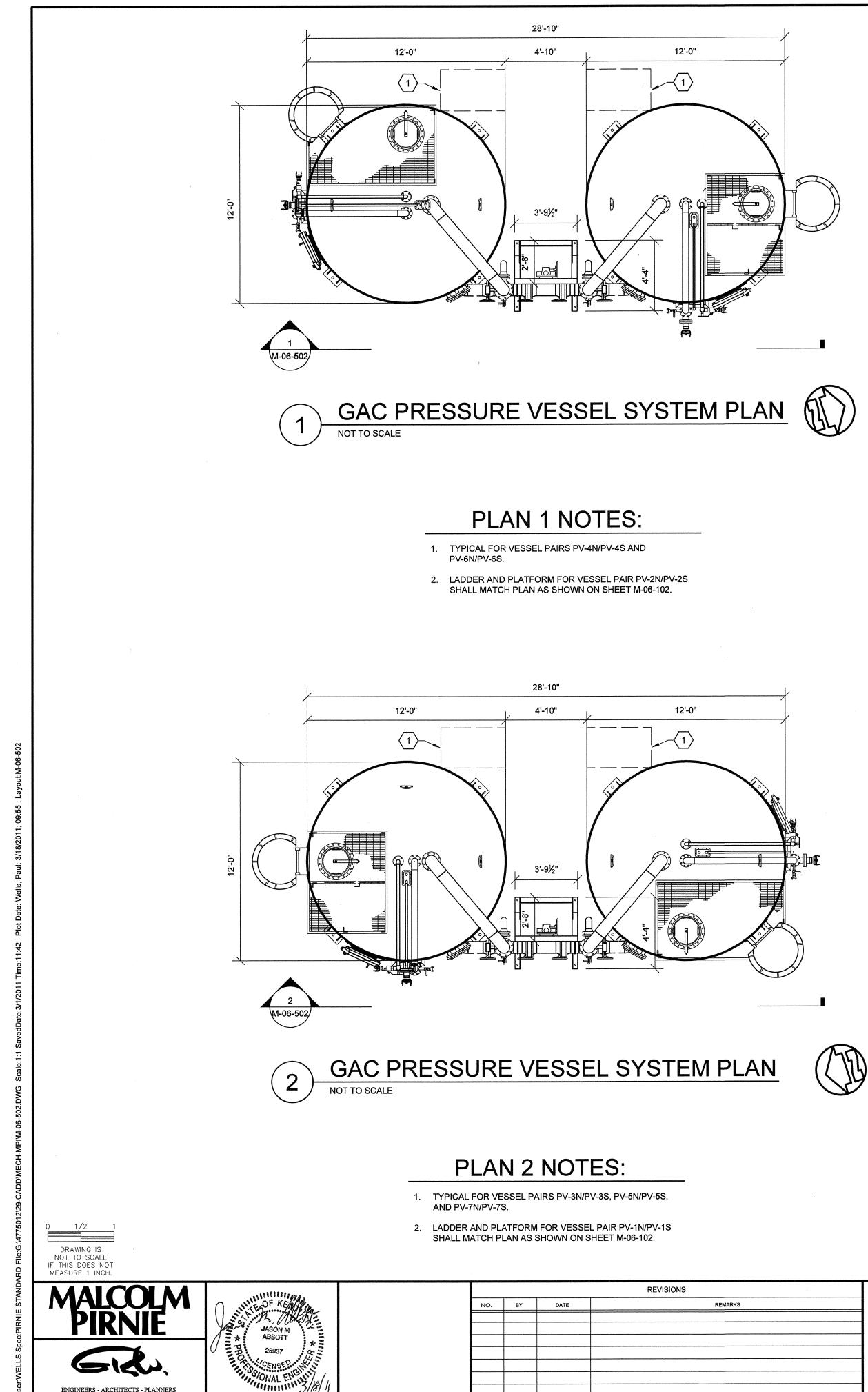
- 1. GENERAL LOCATION OF ROOM AVAILABLE FOR I&C AND ELECTRICAL EQUIPMENT. ALL EQUIPMENT SHALL BE LOCATED SUCH THAT IT DOES NOT INTERFERE WITH GAC FILL AND DRAIN LINES OR BLOCK WALKWAY.
- 2. PROVIDE 16"x16"x12" EQUIPMENT PAD CENTERED ON GRADE BEAM AT EACH VESSEL LEG. REFER TO SHEET
- 3. PROVIDE 12" EQUIPMENT PAD FOR 4-TIER MANIFOLD. REFER TO SHEET S-00-501.

GENERAL NOTES:

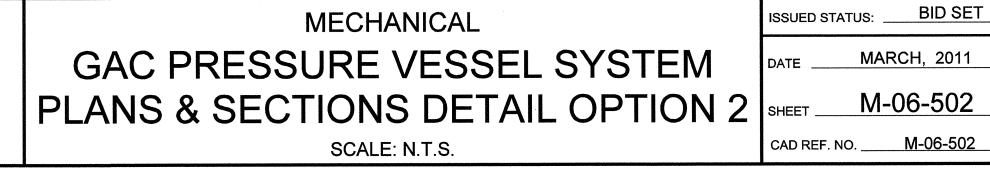
1. VESSEL DETAILS SHOWN TO PROVIDE CLARIFICATION ON GAC FILL AND DRAIN LINES. NOT ALL VESSEL DETAILS ARE SHOWN. REFER TO SPECIFICATIONS FOR ALL VESSEL APPURTENCES AND ACCESSORIES. ALL VESSEL MODIFICATIONS AND DETAILS SHALL BE VERIFIED WITH SELECTED MANUFACTURER.

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	MARCH, 2011
ET	<u>M-06-501</u>

CAD REF. NO. <u>M-06-501</u>

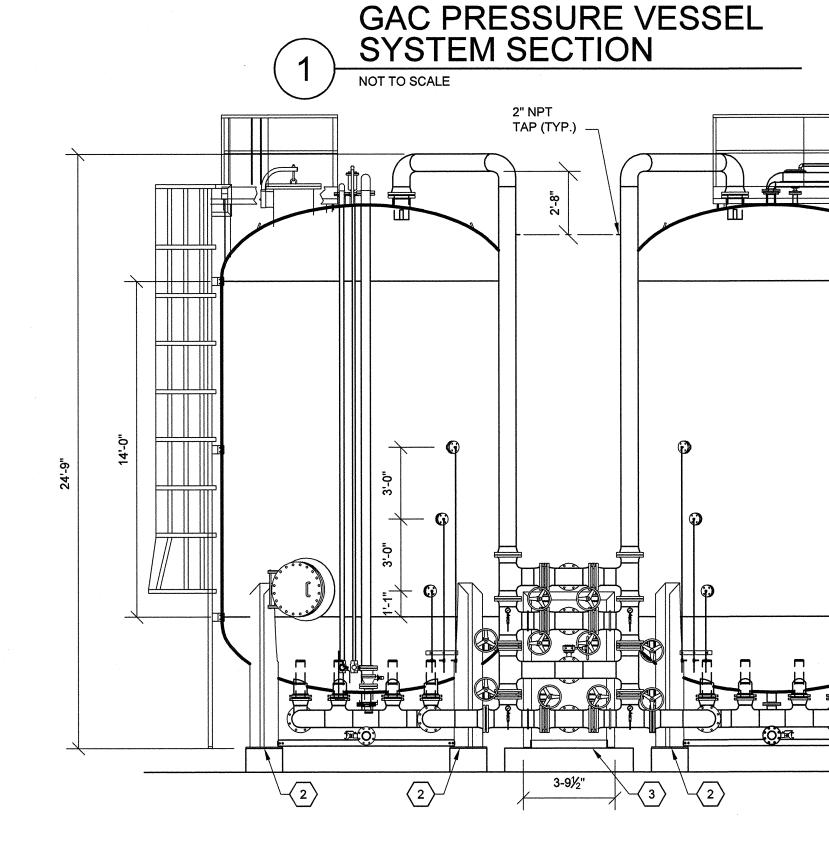


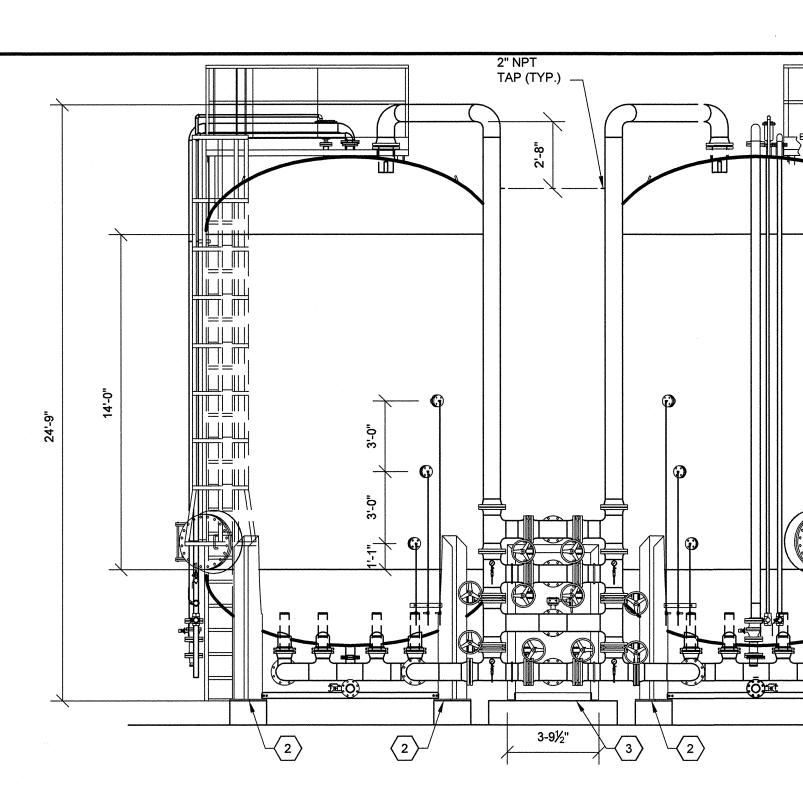
 DES _	JHC
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DWN _	1 3 4 4
CKD _	CMW

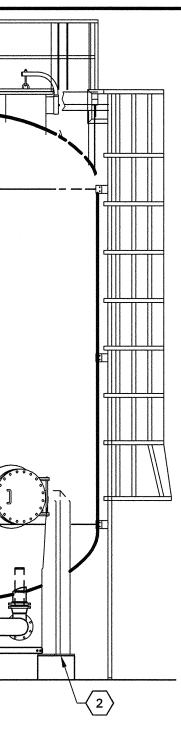


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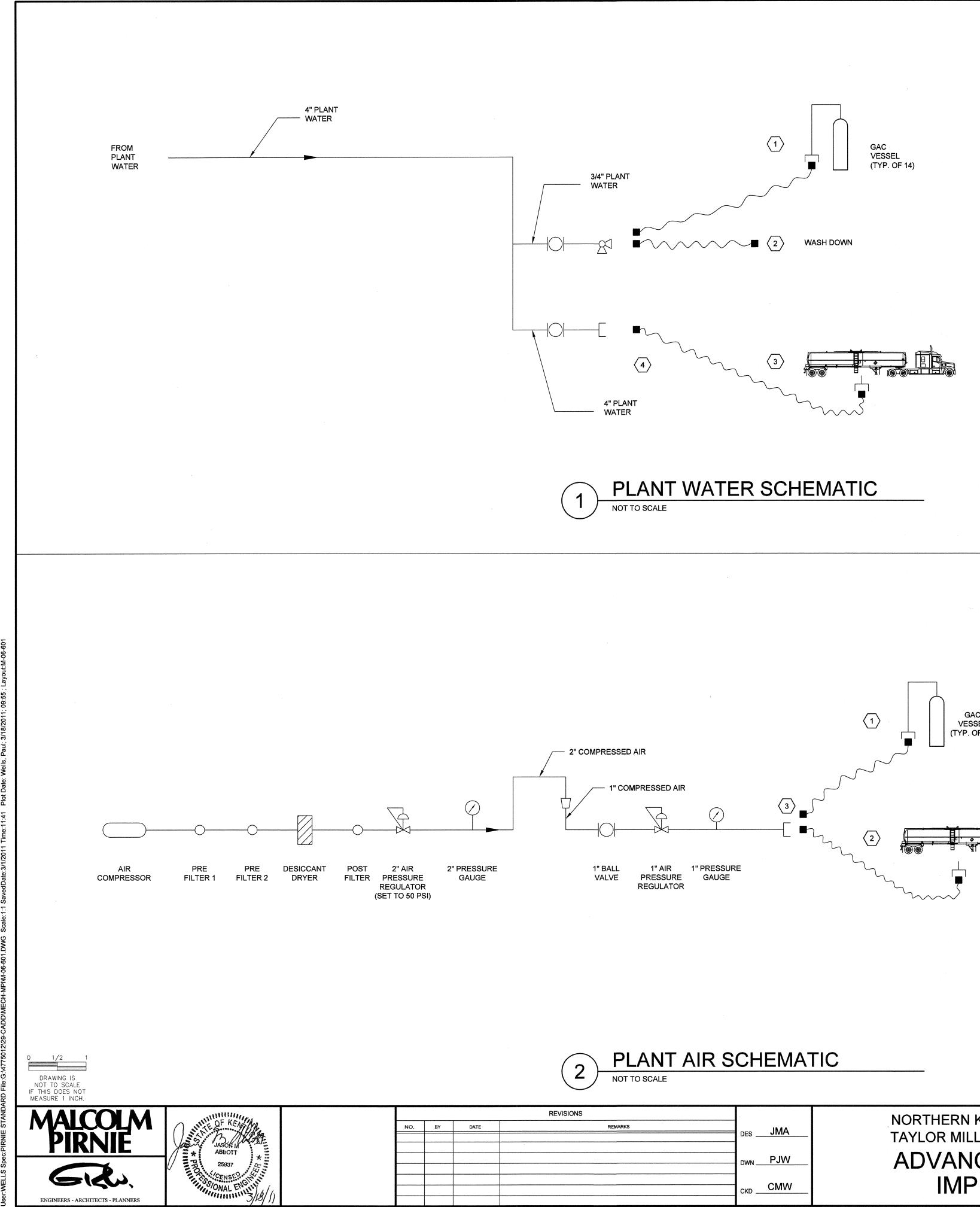




- 1. GENERAL LOCATION OF ROOM AVAILABLE FOR I&C AND ELECTRICAL EQUIPMENT. ALL EQUIPMENT SHALL BE LOCATED SUCH THAT IT DOES NOT INTERFERE WITH GAC FILL AND DRAIN LINES OR BLOCK WALKWAY.
- 2. PROVIDE 16"x16"x12" EQUIPMENT PAD CENTERED ON GRADE BEAM AT EACH VESSEL LEG. REFER TO SHEET S-00-501.
- 3. PROVIDE 12" EQUIPMENT PAD FOR 4-TIER MANIFOLD. REFER TO SHEET S-00-501.



1. VESSEL DETAILS SHOWN TO PROVIDE CLARIFICATION ON GAC FILL AND DRAIN LINES. NOT ALL VESSEL DETAILS ARE SHOWN. REFER TO SPECIFICATIONS FOR ALL VESSEL APPURTENCES AND ACCESSORIES. ALL VESSEL MODIFICATIONS AND DETAILS SHALL BE VERIFIED WITH SELECTED MANUFACTURER.



GAC VESSEL (TYP. OF 14) GAC DELIVERY TRUCK

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DWN PJW
_{скр} CMW

NORTHERN KENTUCKY WATER DISTRICT TAYLOR MILL WATER TREATMENT PLANT ADVANCED TREATMENT IMPROVEMENTS

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PLANT WATER SCHEMATIC NOTES:

- 1. PLANT WATER SHALL PROVIDE WATER TO GAC VESSEL. CONTRACTOR SHALL VERIFY WATER HOSE END CONNECTION WITH SELECTED GAC VESSEL MANUFACTURER.
- 2. PLANT WATER SHALL PROVIDE WATER FOR GAC VESSEL AREA WASH DOWNS. CONTRACTOR SHALL VERIFY END CONNECTION WITH OWNER.

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- 3. PLANT WATER SHALL PROVIDE WATER TO GAC DELIVERY TRUCK. CONTRACTOR SHALL VERIFY END CONNECTION AND HOSE TYPE WITH SELECTED GAC SUPPLIER.
- 4. CONTRACTOR SHALL PROVIDE PLANT WATER HOSES IN ACCORDANCE WITH SPECIFICATION 15403.

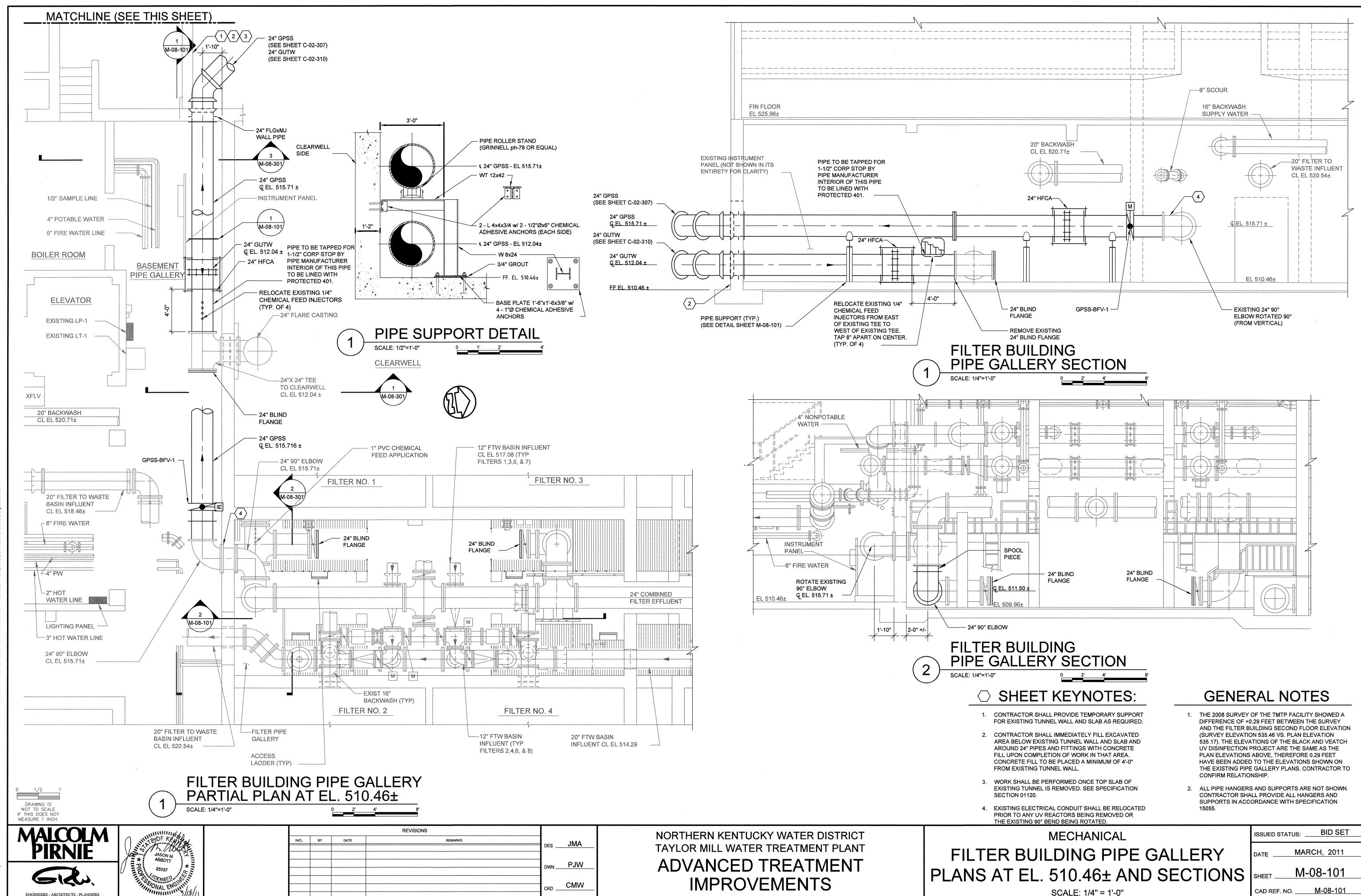
PLANT AIR SCHEMATIC NOTES:

- 1. COMPRESSED AIR STATION WILL PROVIDE AIR TO GAC VESSELS DURING SPENT GAC TRANSFER. CONTRACTOR SHALL VERIFY AIR HOSE GAC VESSEL END CONNECTION WITH SELECTED GAC VESSEL MANUFACTURER.
- 2. COMPRESSED AIR STATION WILL PROVIDE AIR TO GAC DELIVERY TRUCK DURING FRESH GAC TRANSFER. CONTRACTOR SHALL VERIFY HOSE GAC DELIVERY TRUCK END CONNECTION WITH SELECTED GAC SUPPLIER.
- 3. CONTRACTOR SHALL PROVIDE AIR HOSE IN ACCORDANCE WITH SPECIFICATION 15403. CONTRACTOR SHALL VERIFY CONNECTION SIZE WITH SELECTED GAC PRESSURE VESSEL MANUFACTURER.



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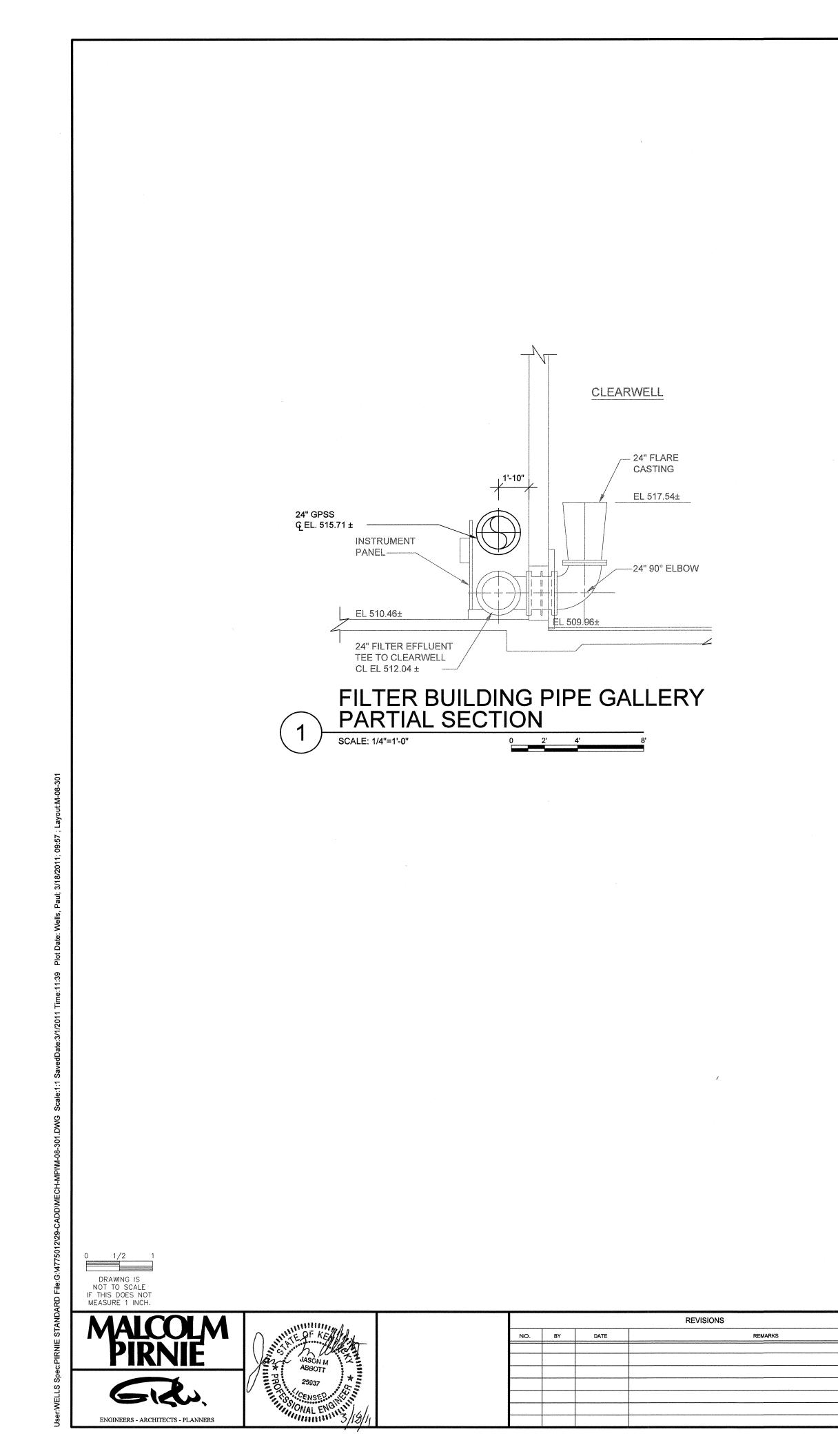
BID SET ISSUED STATUS: MARCH, 2011 DATE M-06-601 SHEET _ CAD REF. NO. <u>M-06-601</u>

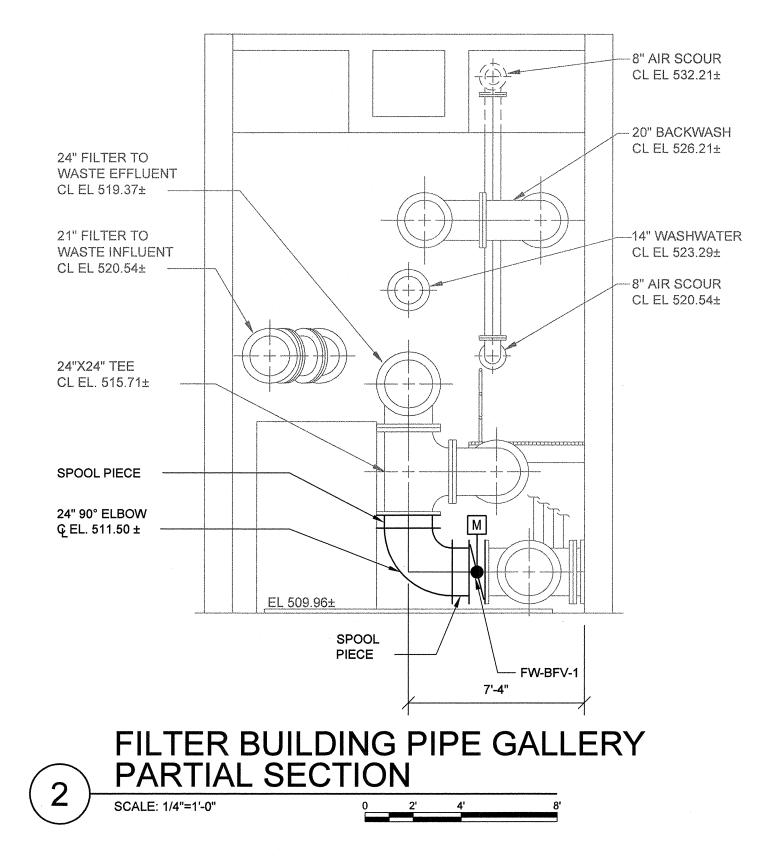


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DWN	PJW	
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CKD	CMW	

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

ISSUED STATU	US: BID SET
DATE	MARCH, 2011
SHEET	M-08-101
CAD REF. NO.	M-08-101

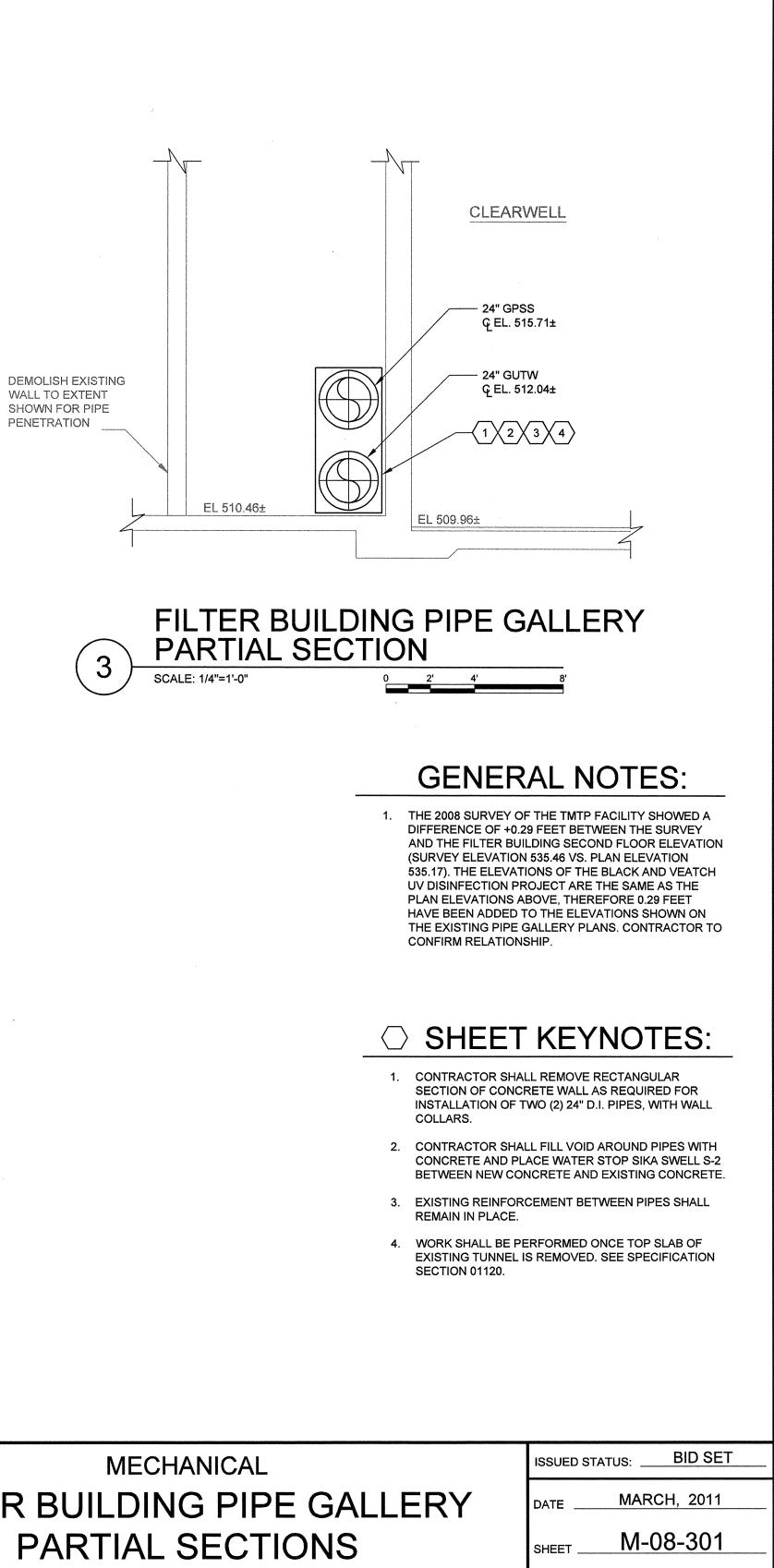




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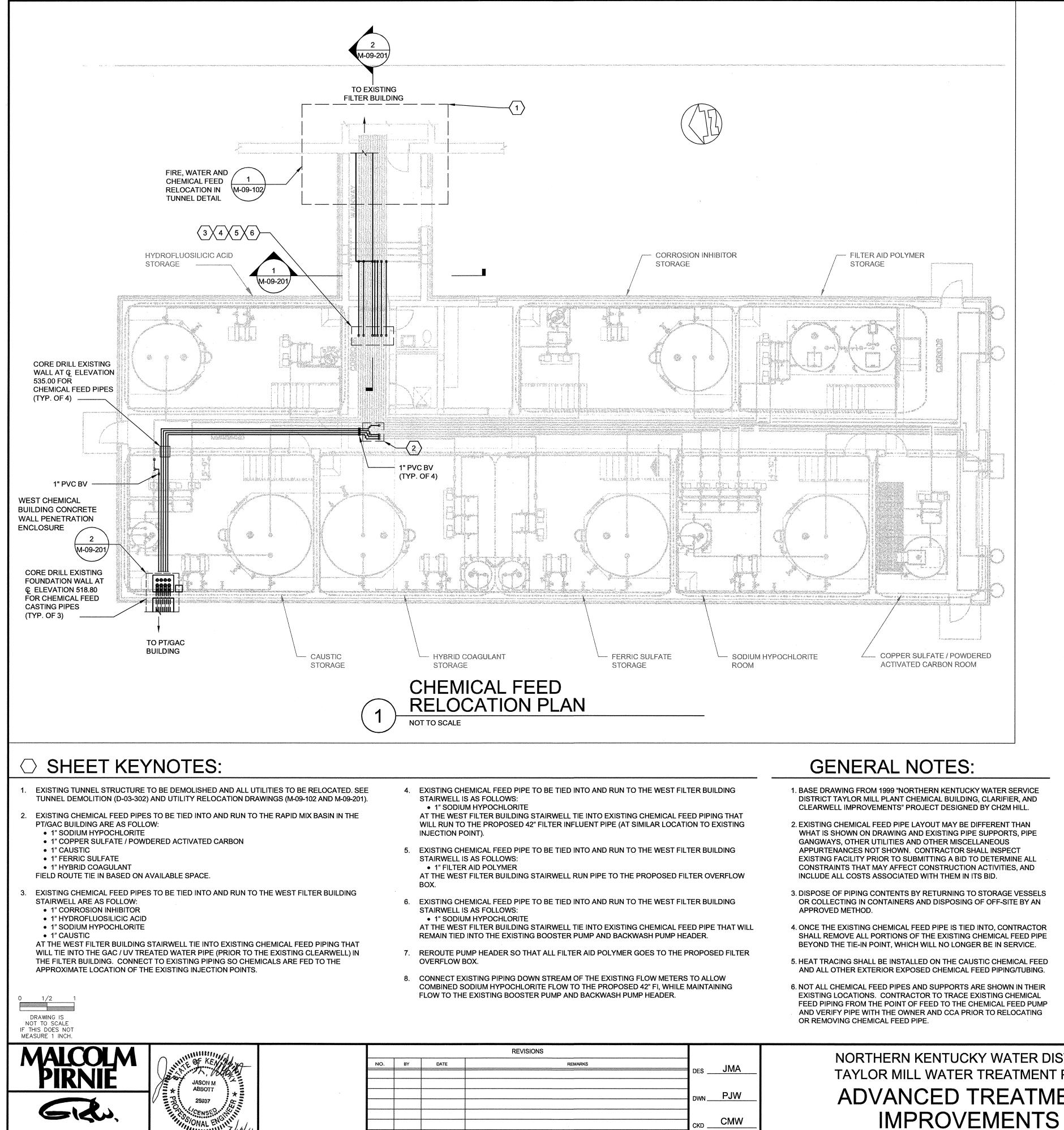
DWN PJW

DES JMA

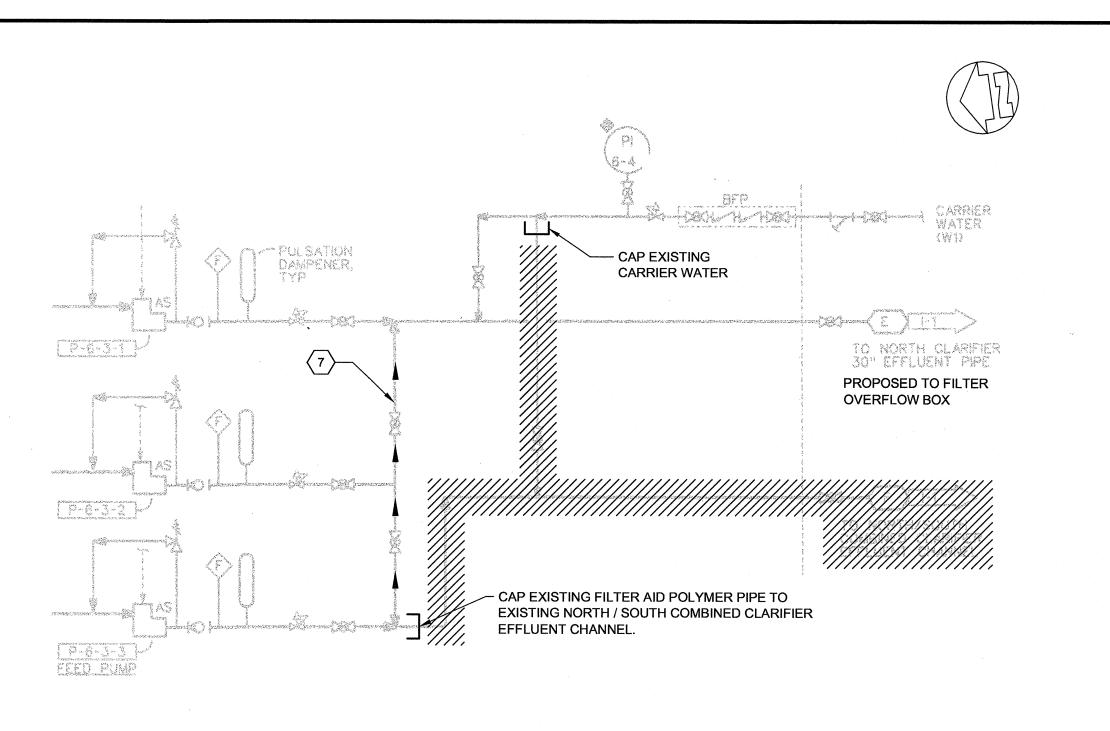


SCALE: 1/4" = 1'-0"

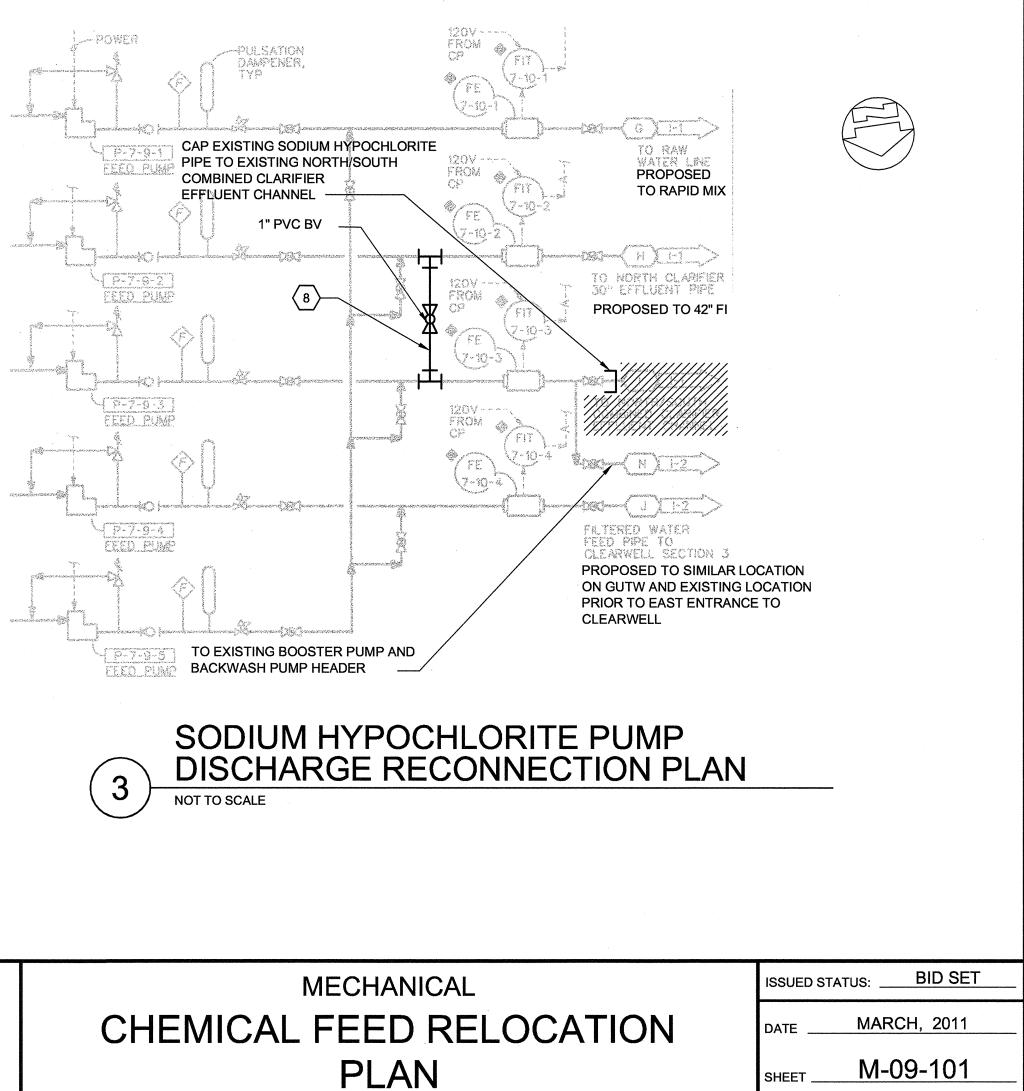
CAD REF. NO. <u>M-08-301</u>



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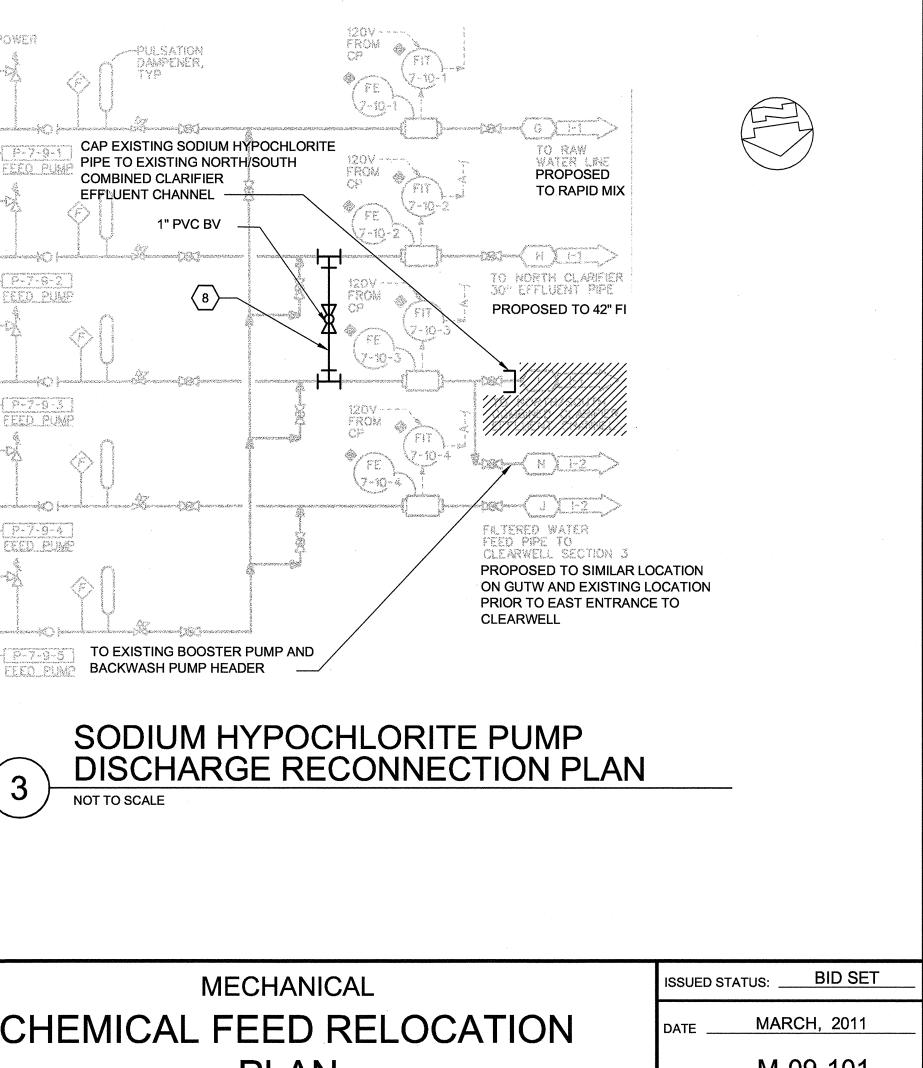






- 1. BASE DRAWING FROM 1999 "NORTHERN KENTUCKY WATER SERVICE DISTRICT TAYLOR MILL PLANT CHEMICAL BUILDING, CLARIFIER, AND
- 2. EXISTING CHEMICAL FEED PIPE LAYOUT MAY BE DIFFERENT THAN WHAT IS SHOWN ON DRAWING AND EXISTING PIPE SUPPORTS, PIPE GANGWAYS, OTHER UTILITIES AND OTHER MISCELLANEOUS APPURTENANCES NOT SHOWN. CONTRACTOR SHALL INSPECT EXISTING FACILITY PRIOR TO SUBMITTING A BID TO DETERMINE ALL CONSTRAINTS THAT MAY AFFECT CONSTRUCTION ACTIVITIES, AND
- 3. DISPOSE OF PIPING CONTENTS BY RETURNING TO STORAGE VESSELS OR COLLECTING IN CONTAINERS AND DISPOSING OF OFF-SITE BY AN
- 4. ONCE THE EXISTING CHEMICAL FEED PIPE IS TIED INTO, CONTRACTOR SHALL REMOVE ALL PORTIONS OF THE EXISTING CHEMICAL FEED PIPE BEYOND THE TIE-IN POINT, WHICH WILL NO LONGER BE IN SERVICE.
- 5. HEAT TRACING SHALL BE INSTALLED ON THE CAUSTIC CHEMICAL FEED AND ALL OTHER EXTERIOR EXPOSED CHEMICAL FEED PIPING/TUBING.
- 6. NOT ALL CHEMICAL FEED PIPES AND SUPPORTS ARE SHOWN IN THEIR EXISTING LOCATIONS. CONTRACTOR TO TRACE EXISTING CHEMICAL FEED PIPING FROM THE POINT OF FEED TO THE CHEMICAL FEED PUMP AND VERIFY PIPE WITH THE OWNER AND CCA PRIOR TO RELOCATING

NORTHERN KENTUCKY WATER DISTRICT TAYLOR MILL WATER TREATMENT PLANT ADVANCED TREATMENT

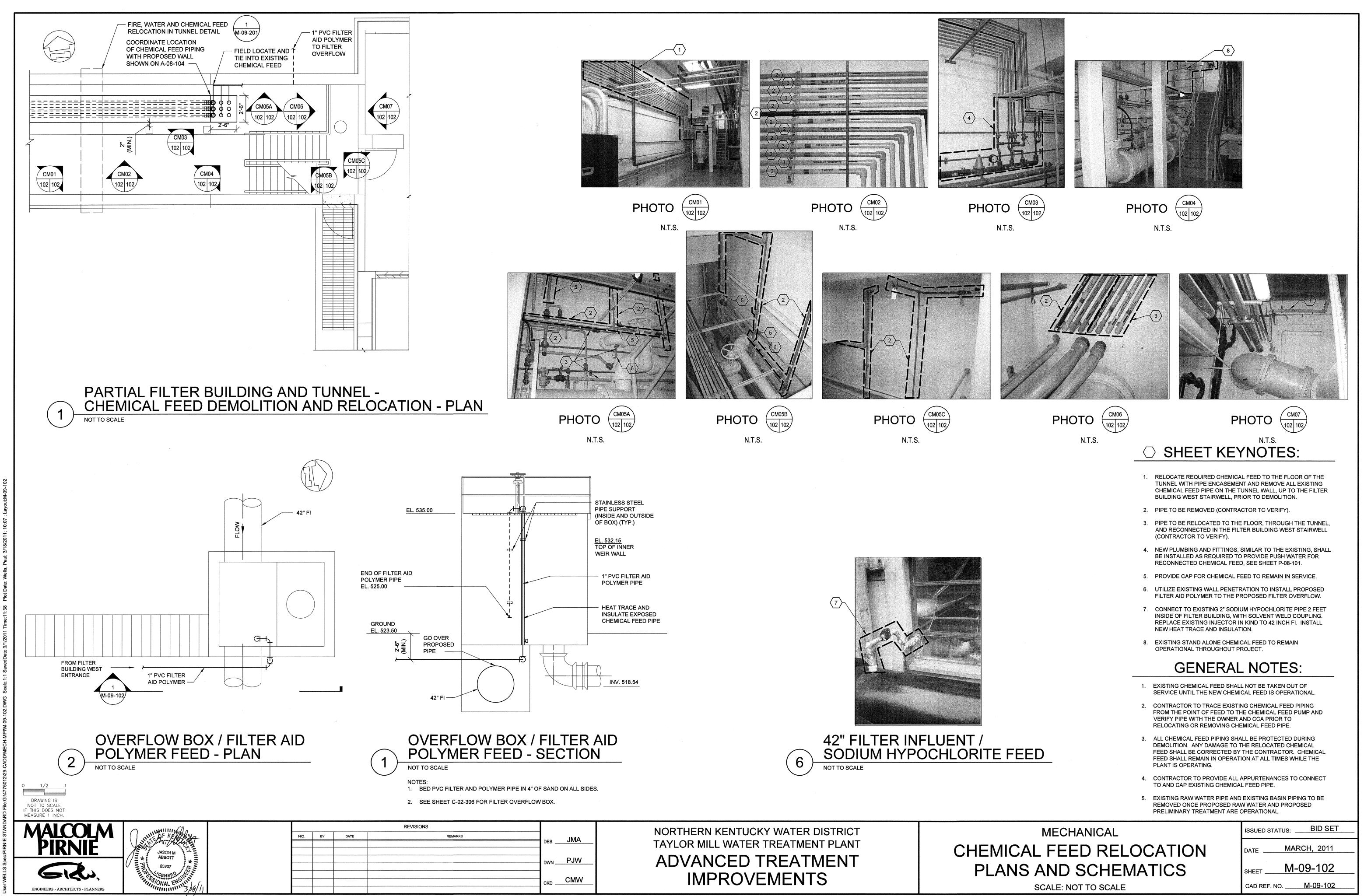


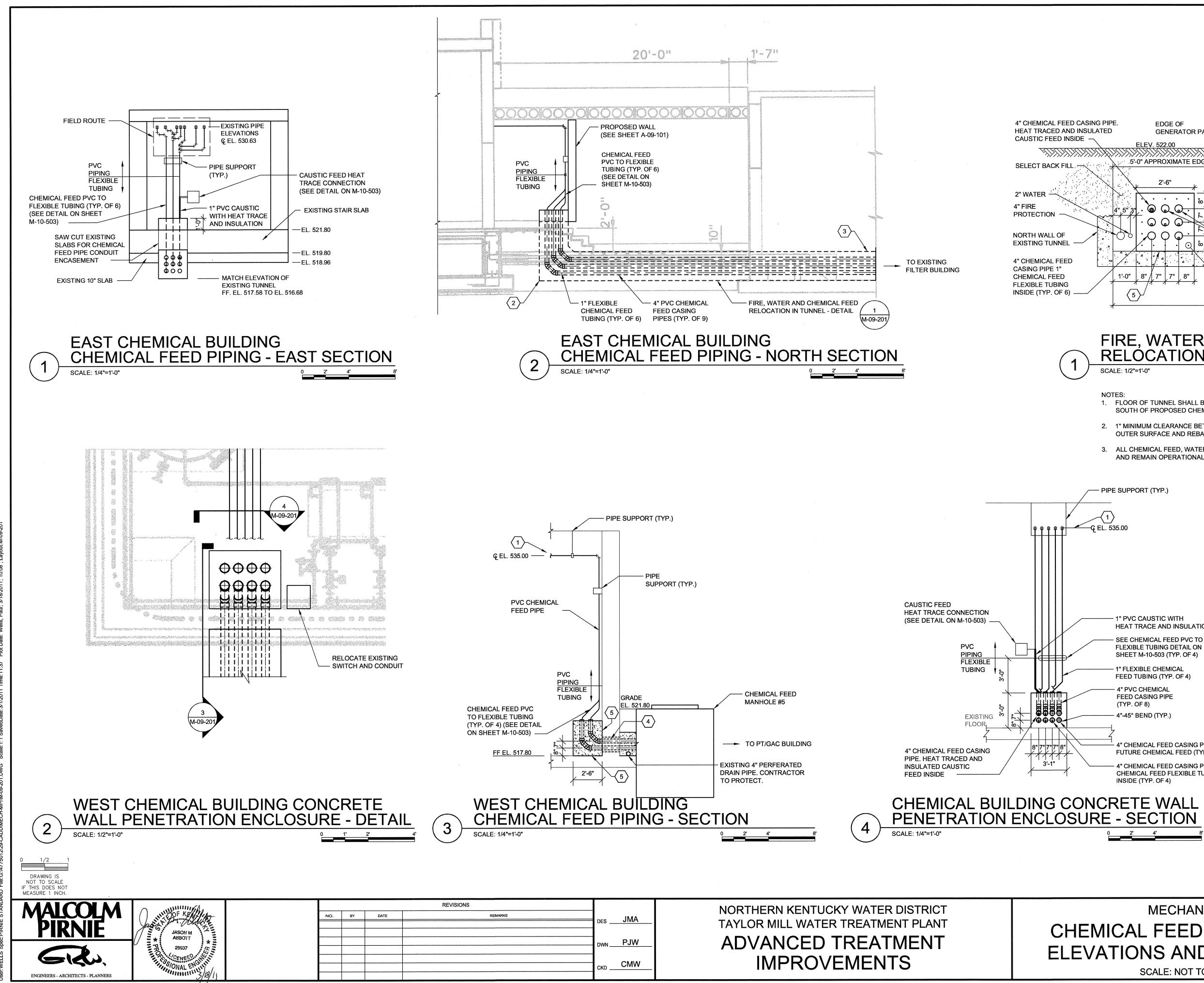
CAD REF. NO. <u>M-09-101</u>

FILTER AID POLYMER PUMP **DISCHARGE RECONNECTION PLAN**

NOT TO SCALE

SCALE: NOT TO SCALE





B PIP		ELE	<u>EV. 522.50</u>
	ELEV. 522.00 5'-0" APPROXIMATE EDGE	ELEV	EV. 521.50 SELECT BACK FILL TO GENERATOR PAD SUBGRADE
		4" CHEMICAL FEED CASING PIPE — FOR FUTURE CHEMICAL FEED (TYP. OF 2)	ELEV. 519.00 SOUTH WALL OF EXISTING TUNNEL ELEV. 517.58 F.F. ELEV. VARIES 517.58 - 516.58
		#5 BARS @ 8" MAX SPACING WITH #3 U-BARS @12", T&B LAP 6" '-4"	

FIRE, WATER AND CHEMICAL FEED **RELÓCATION IN TUNNEL - DETAIL**

- 1. FLOOR OF TUNNEL SHALL BE 6 INCH-CORE DRILLED EVERY 3 FEET NORTH AND SOUTH OF PROPOSED CHEMICAL FEED ENCASEMENT TO PROVIDE DRAINAGE.
- 2. 1" MINIMUM CLEARANCE BETWEEN CONDUITS AND REBAR. 3" CLEARANCE BETWEEN OUTER SURFACE AND REBAR.
- 3. ALL CHEMICAL FEED, WATER AND FIRE PROTECTION PIPING SHALL BE PROTECTED AND REMAIN OPERATIONAL DURING DEMOLITION AND CONSTRUCTION.

HEAT TRACE AND INSULATION

4" CHEMICAL FEED CASING PIPE FOR FUTURE CHEMICAL FEED (TYP. OF 3)

4" CHEMICAL FEED CASING PIPE 1" CHEMICAL FEED FLEXIBLE TUBING

○ SHEET KEYNOTES:

- 1. FIELD LOCATE ELEVATION BASED ON AVAILABLE SPACE OF EXISTING PIPING AND UTILITIES. CONFIRM ELEVATION WITH CCA.
- 2. PRIOR TO DEMOLITION OF THE TUNNEL SAW CUT THE EXISTING SLABS IN THE CHEMICAL BUILDING EAST ENTRANCE AND UPPER PORTION OF THE EXISTING TUNNEL. INSTALL, CONDUIT ENCASEMENT, CHEMICAL FEED CASING PIPE AND RELOCATED CHEMICAL FEED PIPE.
- 3. PRIOR TO DEMOLITION OF THE TUNNEL, INSTALL CONDUIT ENCASEMENT, CHEMICAL FEED CASING PIPE AND RELOCATED CHEMICAL FEED PIPE ALONG FLOOR OF EXISTING TUNNEL. SEE SHEET M-09-102.
- 4. CONTRACTOR SHALL FILL VOID AROUND CASING PIPES WITH SIKA FLEX.
- 5. CONTRACTOR SHALL APPLY EPOXY BONDING COMPOUND BEFORE PLACING NEW CONCRETE.

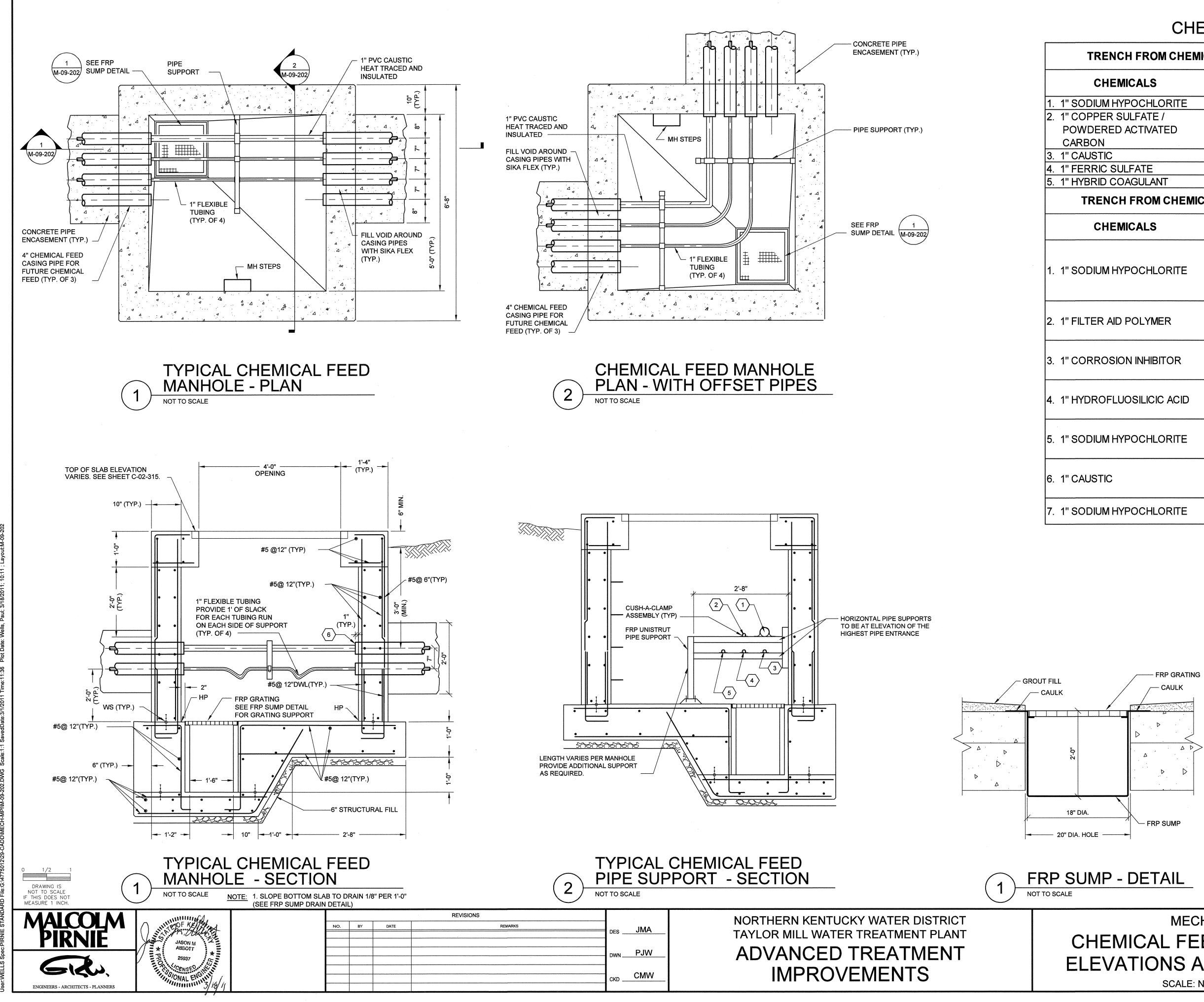
GENERAL NOTES:

- 1. BASE DRAWING FROM 1999 "NORTHERN KENTUCKY WATER SERVICE DISTRICT TAYLOR MILL PLANT CHEMICAL BUILDING, CLARIFIER, AND CLEARWELL IMPROVEMENTS" PROJECT DESIGNED BY CH2M HILL.
- 2. HEAT TRACING SHALL BE INSTALLED ON THE CAUSTIC CHEMICAL FEED TUBING OUTSIDE OF THE BUILDINGS AND ALL OTHER EXTERIOR EXPOSED CHEMICAL FEED PIPING/TUBING.
- 3. COMPACT EXISTING SUBGRADE AND INSTALL A MINIMUM OF 6" OF STRUCTURAL FILL BENEATH CONCRETE CHEMICAL FEED ENCASEMENT WHERE ENCASEMENT IS INSTALLED ON SOIL.

MECHANICAL CHEMICAL FEED RELOCATION **ELEVATIONS AND SECTIONS - I**

ISSUED STAT	TUS: BID SET
DATE	MARCH, 2011
SHEET	M-09-201
	M 00 201
CAD REF. NO	D. <u>M-09-201</u>

SCALE: NOT TO SCALE



CHEMICAL FEED SCHEDULE

TRENCH FROM CHEMICAL BUILDING, THROUGH YARD TO PT/GAC BUILDING

MICALS	EXISTING FEED LOCATION	PROPOSED FEED LOCATION
YPOCHLORITE	EXISTING RAW WATER PIPE	PROPOSED RAPID MIX
SULFATE /		
D ACTIVATED	EXISTING RAW WATER PIPE	PROPOSED RAPID MIX
· · · · · · · · · · · · · · · · · · ·	EXISTING RAW WATER PIPE	PROPOSED RAPID MIX
ULFATE	EXISTING RAW WATER PIPE	PROPOSED RAPID MIX
OAGULANT	EXISTING RAW WATER PIPE	PROPOSED RAPID MIX

TRENCH FROM CHEMICAL BUILDING, THROUGH TUNNEL TO FILTER BUILDING

MICALS	EXISTING FEED LOCATION	PROPOSED FEED LOCATION		
YPOCHLORITE	EXISTING NORTH CLARIFIER 30" EFFLUENT PIPE AND EXISTING NORTH/SOUTH TROUGH	PROPOSED 42" FI		
D POLYMER	EXISTING NORTH CLARIFIER EFFLUENT BOX AND EXISTING NORTH/SOUTH TROUGH	PROPOSED FILTER OVERFLOW BOX		
ON INHIBITOR	EXISTING FILTER EFFLUENT 2 LOCATIONS PRIOR TO CLEARWELL	PROPOSED 24" GUTW AND EXISTING LOCATION IN THE NORTH PIPE GALLERY		
UOSILICIC ACID	EXISTING FILTER EFFLUENT 2 LOCATIONS PRIOR TO CLEARWELL	PROPOSED 24" GUTW AND EXISTING LOCATION IN THE NORTH PIPE GALLERY		
YPOCHLORITE	EXISTING FILTER EFFLUENT 2 LOCATIONS PRIOR TO CLEARWELL	PROPOSED 24" GUTW AND EXISTING LOCATION IN THE NORTH PIPE GALLERY		
	EXISTING FILTER EFFLUENT 2 LOCATIONS PRIOR TO CLEARWELL	PROPOSED 24" GUTW AND EXISTING LOCATION IN THE NORTH PIPE GALLERY		
YPOCHLORITE	EXISTING BOOSTER PUMP AND BACKWASH PUMP HEADER	EXISTING BOOSTER PUMP AND BACKWASH PUMP HEADER		

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○ SHEET KEYNOTES:

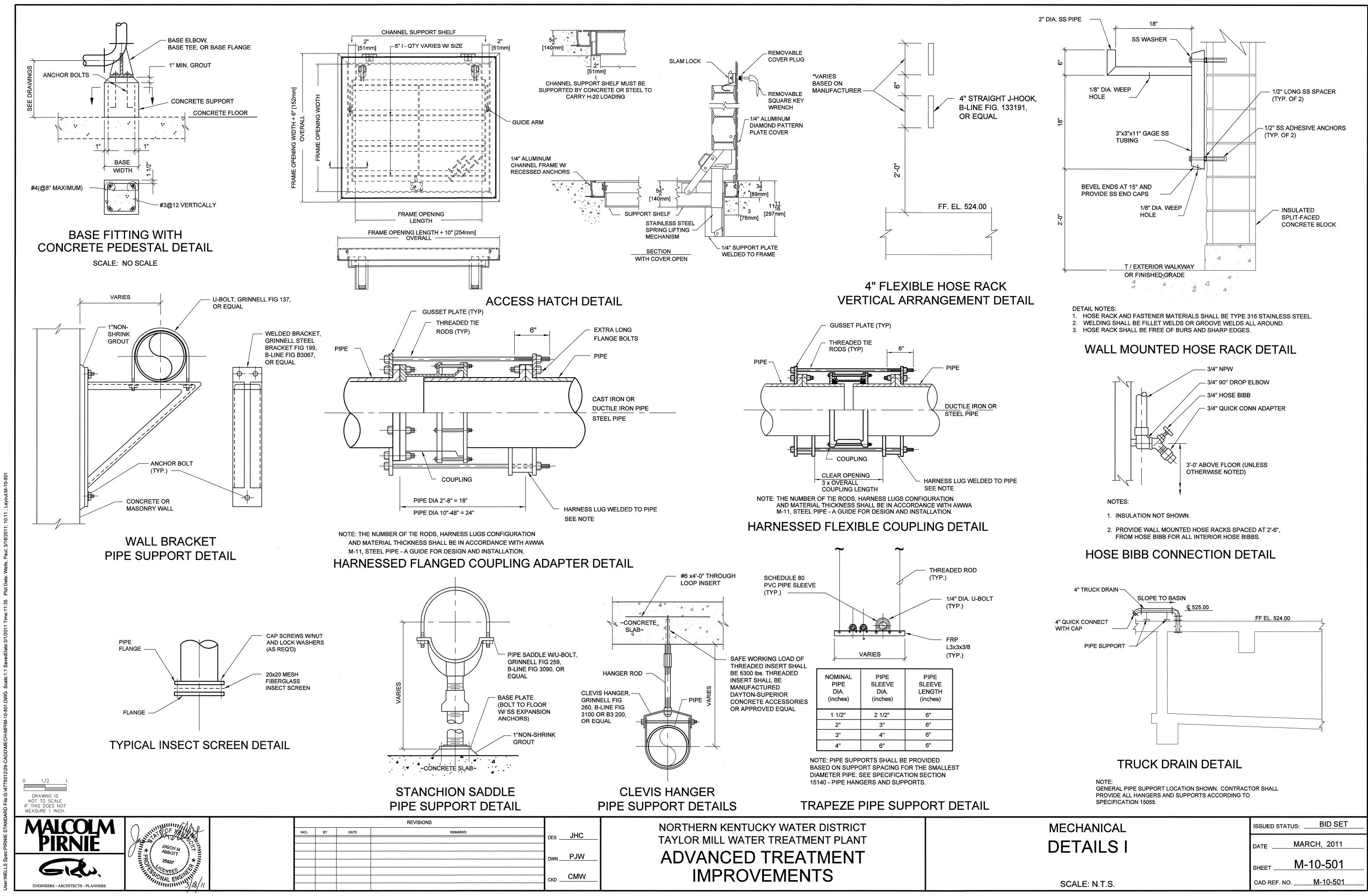
- 1" PVC PIPE FOR CAUSTIC WITH HEAT TRACE AND INSULATION
- 2. 1" FLEXIBLE TUBING FOR COPPER SULFATE / POWDERED ACTIVATED CARBON
- 3. 1" FLEXIBLE TUBING FOR HYBRID COAGULANT
- 4. 1" FLEXIBLE TUBING FOR FERRIC SULFATE
- 5. 1" FLEXIBLE TUBING FOR SODIUM HYPOCHLORITE
- 6. TERMINATE CASING PIPE 1" INTO MANHOLE LEAVE OPEN TO DRAIN.

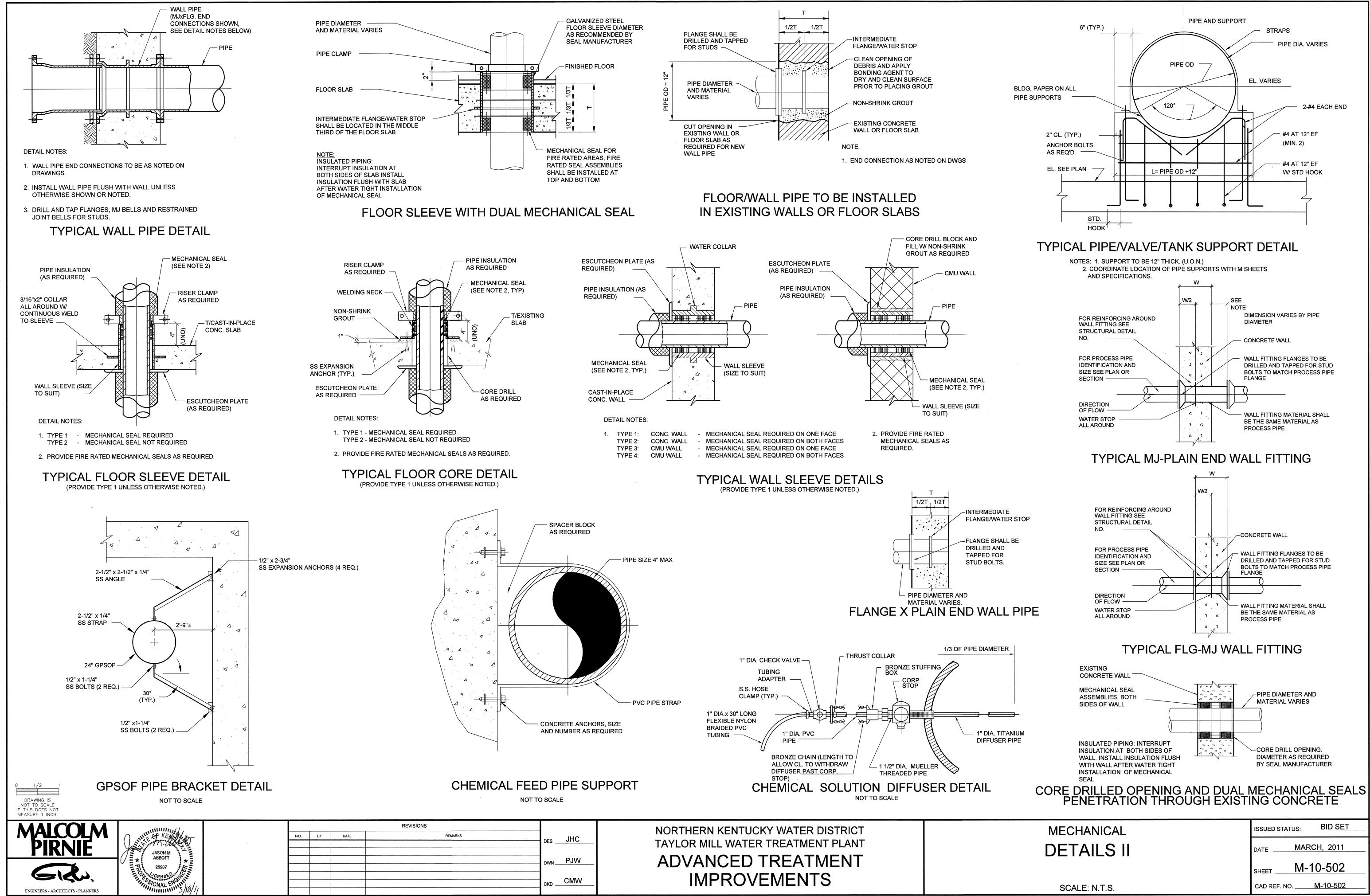
GENERAL NOTES:

- 1. INSTALL ALL CHEMICAL FEED CARRIER PIPES BETWEEN MANHOLES TO CONTINUOUSLY DRAIN TO THE DOWN SLOPE MANHOLE.
- 2. ALL HORIZONTAL AND VERTICAL CHANGES SHALL BE MADE GENTLY TO ALLOW THE CHEMICAL FEED TUBING TO BE INSTALLED.
- 3. THE TOP OF EACH CHEMICAL FEED MANHOLE SHALL READ "CHEMICAL FEED - CONFINED SPACE ENTRANCE REQUIRED"

MECHANICAL CHEMICAL FEED RELOCATION **ELEVATIONS AND SECTIONS - II** SCALE: NOT TO SCALE

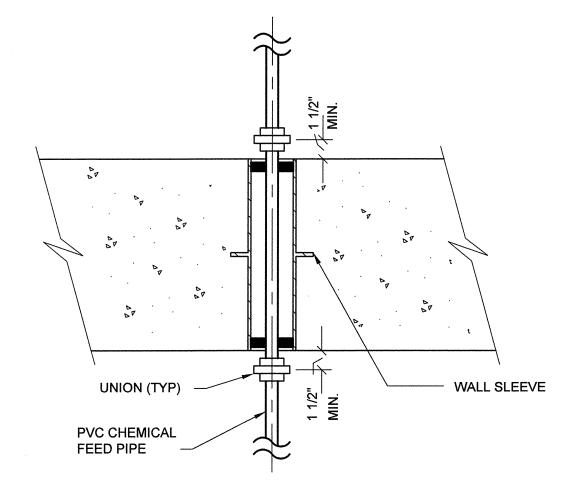
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DATE	MARCH, 2011
SHEET	M-09-202
CAD REF. NO.	M-09-202

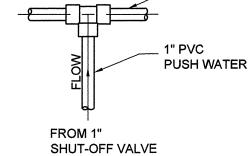




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CHEMICAL FEED SLAB PENETRATION DETAIL

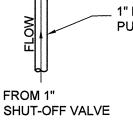


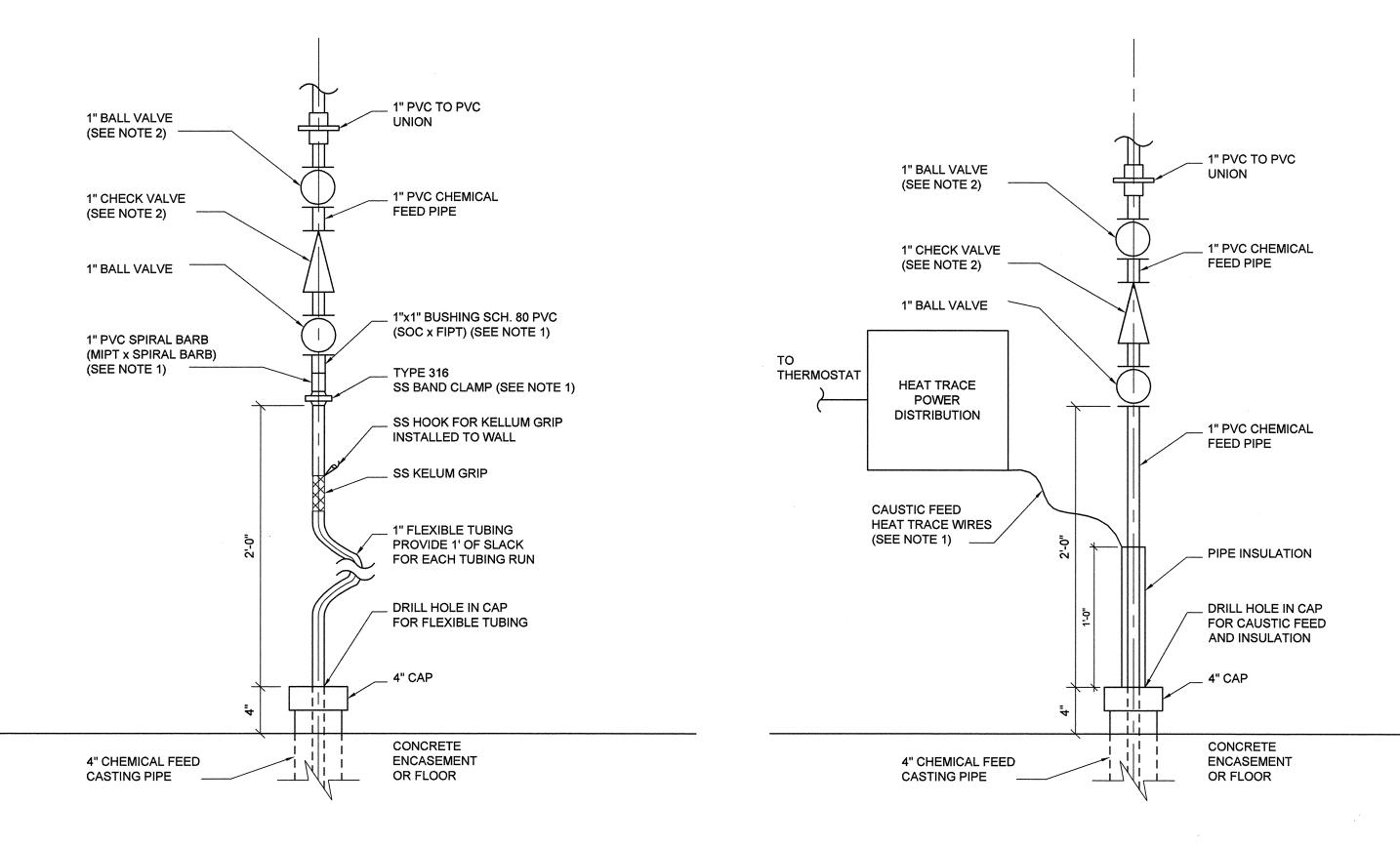


PUSH WATER CONNECTIONS NOT TO SCALE

NOTES:

CHEMICAL FEED LINES.





CHEMICAL FEED PVC TO FLEXIBLE TUBING DETAIL NOT TO SCALE

1. CONNECT 1" PVC FROM 1" PUSH STATION SHUT-OFF VALVES SHOWN ON SHEETS P-06-602 AND P-08-101 TO

1" CHEMICAL FEED

NOTES: 1. TRANSITION FROM PVC PIPING TO FLEXIBLE TUBING WITH A SCH. 80 PVC SOC x FIPT TRANSITION FITTING AND 1" MIPT x SPIRAL BARB FITTING SECURED WITH TYPE 316 SS BAND CLAMP.

2. FOR CHEMICAL FEED WITH FLOW IN THE UPWARD DIRECTION PROVIDE 1" CHECK VALVE AND ADDITIONAL 1" BALL VALVE.

_	DES _	JHC
	DWN	PJW
		<u></u>
	CKD	CMW

NORTHERN KENTUCKY WATER DISTRICT TAYLOR MILL WATER TREATMENT PLANT ADVANCED TREATMENT IMPROVEMENTS

CAUSTIC FEED HEAT TRACE CONNECTION DETAIL NOT TO SCALE

NOTES:

1" BALL VALVE.

1. ZIP TIE CAUSTIC FEED HEAT TRACE WIRES TO CAUSTIC FEED PIPING. 2. FOR CHEMICAL FEED WITH FLOW IN THE UPWARD DIRECTION PROVIDE 1" CHECK VALVE AND ADDITIONAL

3. CAUSTIC FEED HEAT TRACE TABLE:

POWER DISTRIBUTION LOCATION	HEAT TRACE FROM	HEAT TRACE TO		
PT/GAC BUILDING	PT/GAC BUILDING	CFM-3		
CHEMICAL BUILDING	CHEMICAL BUILDING	CFM-3		
CHEMICAL BUILDING	CHEMICAL BUILDING	FILTER BUILDING		
LOCATE THERMOSTAT AS RECOMMENDED BY MANUFACTURER.				

PROVIDE WALL PENETRATIONS AS REQUIRED.

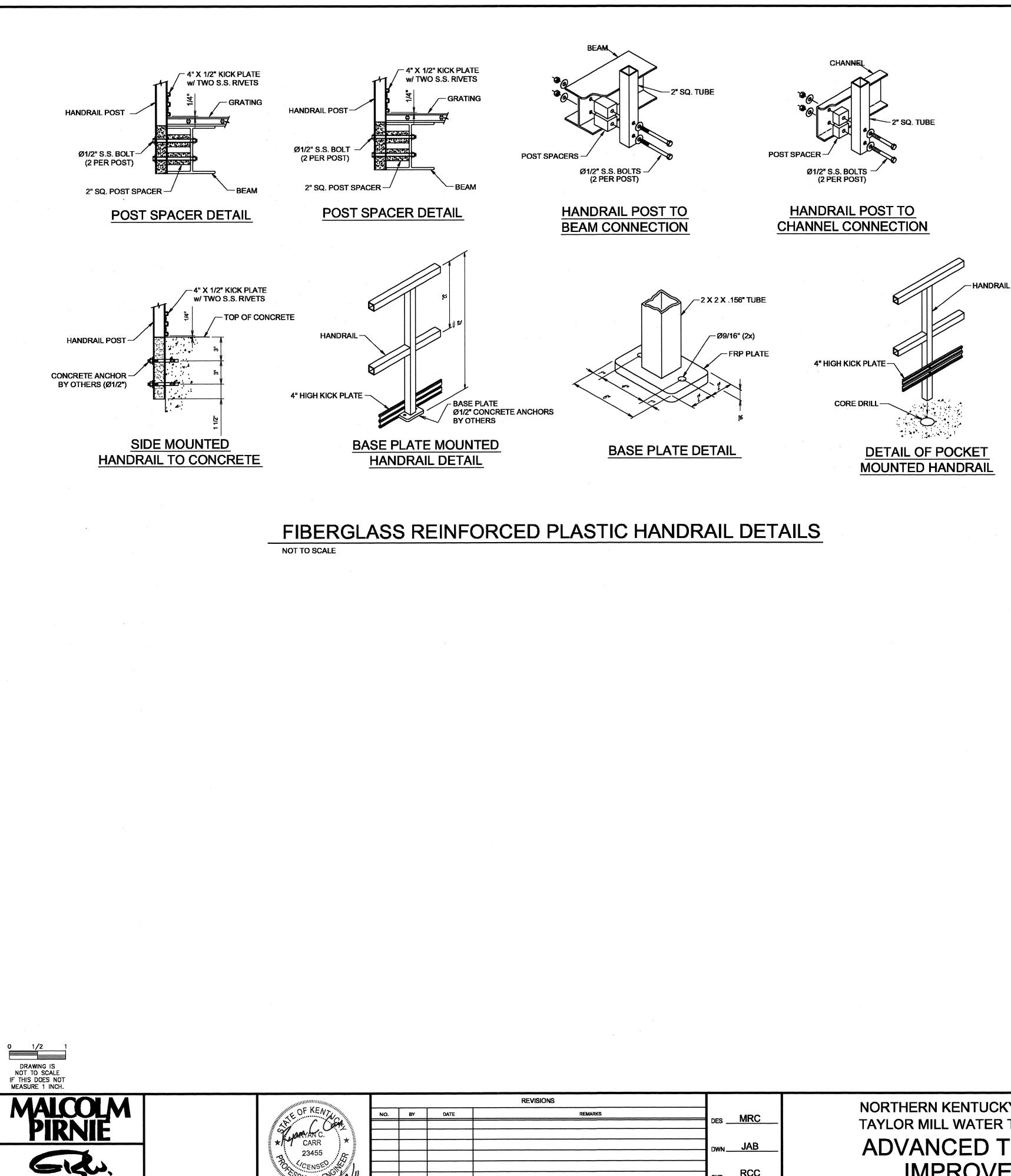
4. FOR OTHER HEAT TRACE LOCATIONS UTILIZE PRE-ASSEMBLED SELF-REGULATING HEATING CABLE.

OUTLET	HEAT TRACE	HEAT TRACE
LOCATION	FROM	TO
FILTER OVERFLOW BOX	GRADE	TOP OF OVERFLOW BOX
FILTER BUILDING	PIPE GALLERY	42" FI

ME	CHAN	IICAL	
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ISSUED ST	ATUS: BID SET
DATE	MARCH, 2011
SHEET	M-10-503
CAD REF.	NO. <u>M-10-503</u>

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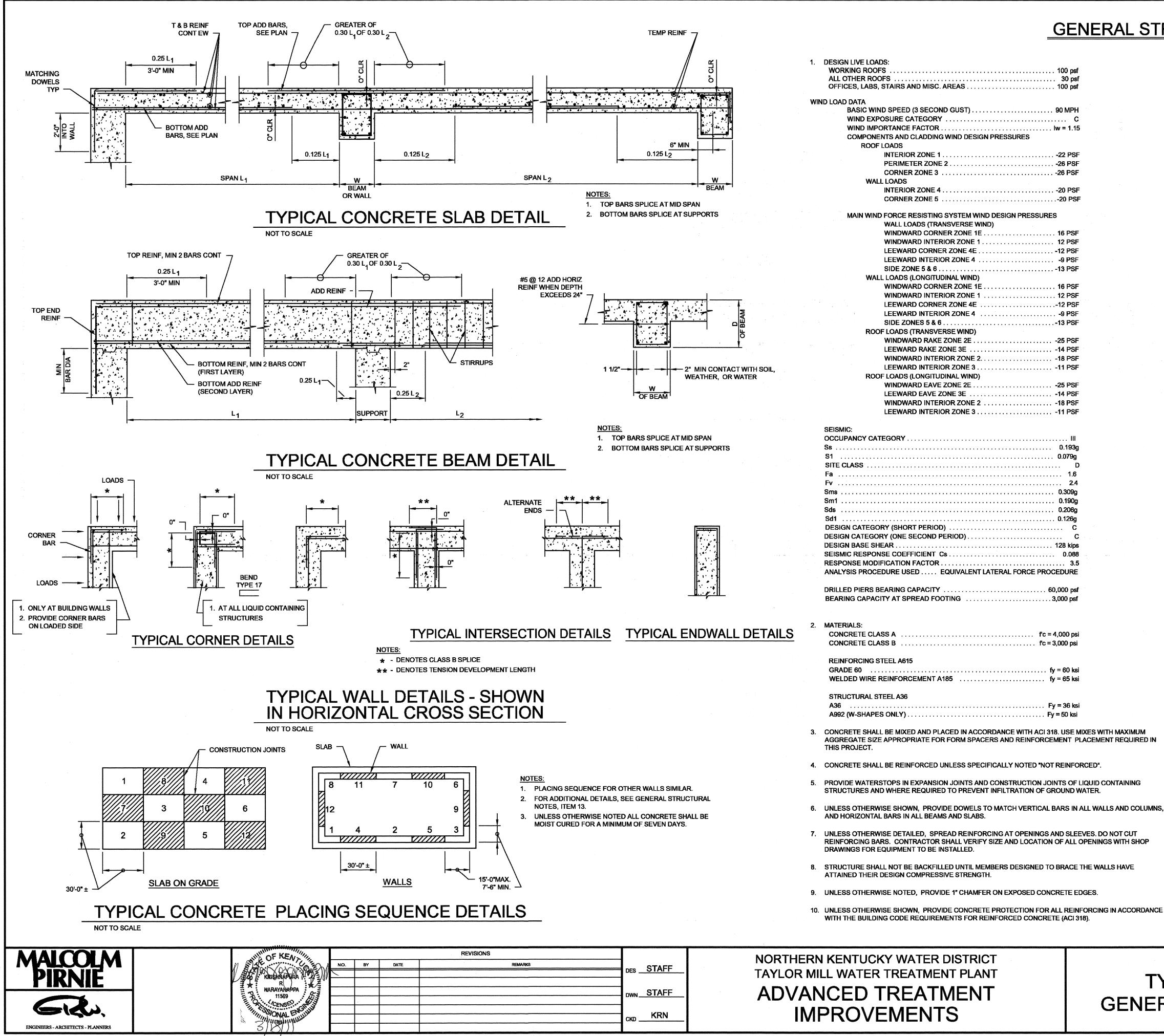


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DES _	MRC
DWN_	JAB
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CKD _	RCC

NORTHERN KENTUCKY WATER DISTRICT TAYLOR MILL WATER TREATMENT PLANT ADVANCED TREATMENT IMPROVEMENTS

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D Spec: PIRNIE STANDARD File: U.3789-NKWD TAYLOR MILLWORKING DRAWINGS\DESIGN DRAWINGS\STRUC\3789-S-00-001.DWG Scale: 1:1 SavedDate: 1/31/2011 Time: 13:29 Plot Date: Bond, Jeff; 3/10/2011

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GENERAL STRUCTURAL NOTES

- 11. ALL REINFORCEMENT SHALL BE DETAILED, FABRICATED AND PLACED IN ACCORDANCE WITH ACI 315.
 - a. TOP BARS ARE HORIZONTAL BARS WHICH HAVE MORE THAN 12 INCHES OF CONCRETE CAST BELOW THE BAR (INCLUDES ALL HORIZONTAL WALL REINFORCEMENT).
 - b. OTHER BARS INCLUDE ALL VERTICAL REINFORCEMENT AND ALL HORIZONTAL REINFORCEMENT WHICH HAS LESS THAN 12 INCHES OF CONCRETE CAST BELOW THE BAR FOR WHICH BASIC TENSION LAP SPLICES IN NORMAL WEIGHT CONCRETE ARE APPLICABLE.
 - c. UNLESS OTHERWISE SHOWN, ALL REINFORCEMENT SHALL BE TREATED AS TENSION REINFORCEMENT.
 - d. THE TENSION DEVELOPMENT (EMBEDMENT) LENGTH, Ld OR Ldt, EQUALS A CLASS A SPLICE LENGTH.
 - e. TENSION SPLICE AND TENSION EMBEDMENT LENGTHS SHALL BE NOT LESS THAN 12 INCHES.
- 12. UNLESS OTHERWISE SHOWN, REINFORCEMENT AT WALL CORNERS AND INTERSECTIONS SHALL BE AS AS SHOWN ON THIS SHEET.
- UNLESS OTHERWISE NOTED CONSTRUCTION JOINTS SHALL BE AT THE LOCATIONS SHOWN ON THE DRAWINGS.ADDITIONAL CONSTRUCTION JOINTS LOCATED BY THE CONTRACTOR AS FOLLOWS:

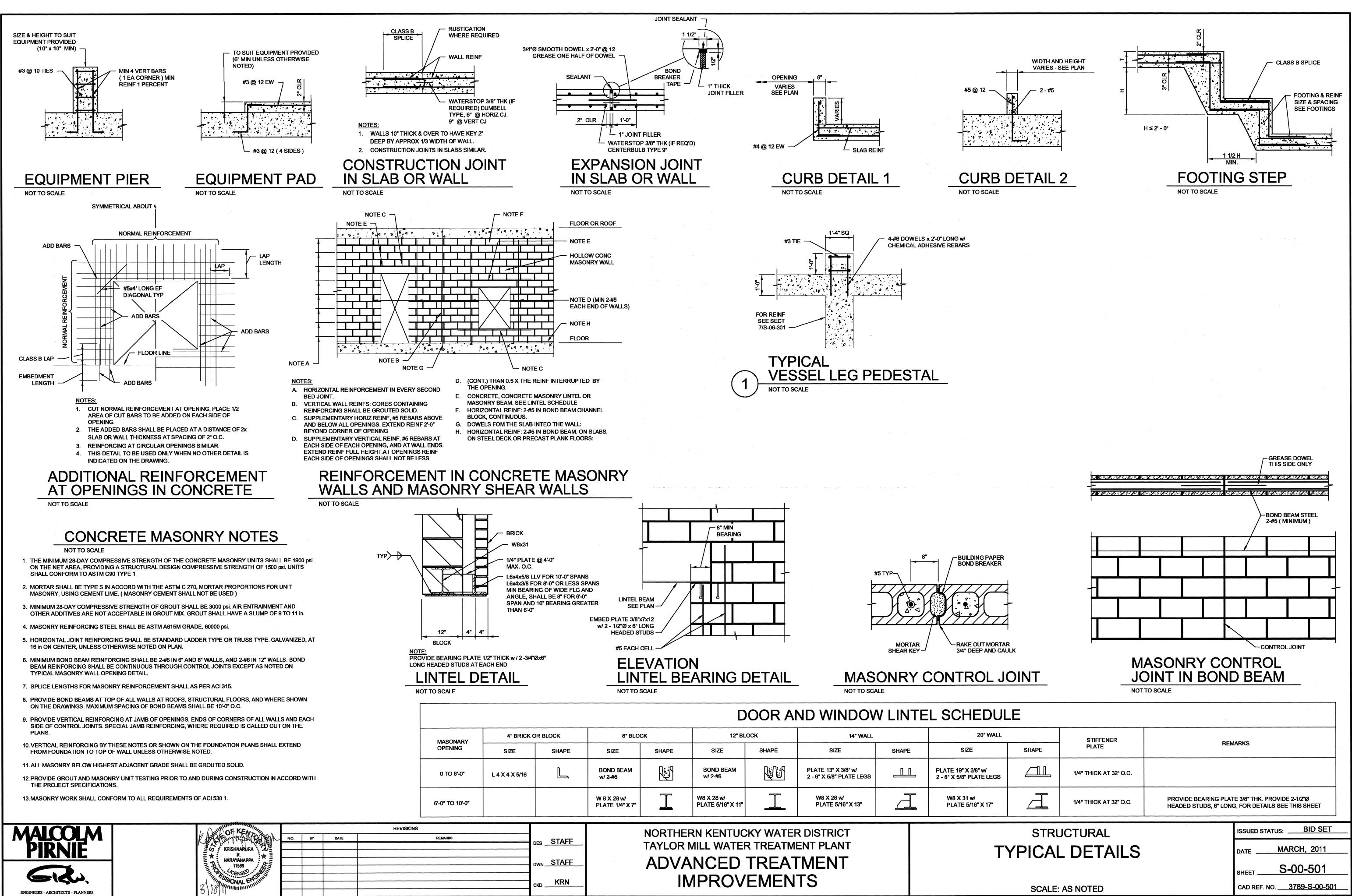
 a. FOUNDATION SLABS, SLABS ON GRADE AND SLABS RETAINING LIQUIDS AT A SPACING OF APPROXIMATELY 30 FEET. CONCRETE SHALL BE PLACED IN A CHECKERBOARD PATTERN. FOR DETAIL SEE THIS SHEET.
- b. WALLS AT A SPACING OF APPROXIMATELY 30 FEET, CONCRETE SHALL BE PLACED IN ALTERNATE SECTIONS, WITH CONSTRUCTION JOINTS LOCATED APPROXIMATELY 12 FEET FROM CORNERS. FOR DETAIL SEE THIS SHEET.
- c. FRAMED SLABS AND BEAMS: CONSTRUCTION JOINTS SHALL BE LOCATED AT THE CENTER OF SPANS OF SLABS OR BEAMS.
- d. FOR ADDITIONAL INFORMATION SEE SPECIFICATIONS SECTION 03300, ITEM 3.3g THESE ADDITIONAL CONSTRUCTION JOINTS LOCATIONS SHALL HAVE THE WRITTEN APPROVAL OF THE ENGINEER. CONSTRUCTION AND EXPANSION JOINTS SHALL BE IN ACCORDANCE WITH TYPICAL DETAILS
- 14. CONTINUOUS REINFORCING IN WALLS AND SLABS MAY BE SPLICED, AS REQUIRED, PROVIDING BARS ARE OF THE LONGEST PRACTICABLE LENGTH AND ALL SPLICES ARE SHOWN ON REINFORCING SHOP DRAWINGS. WHENEVER POSSIBLE SPLICES SHALL BE STAGGERED.

15. REINFORCE ALL CONCRETE WALLS, NOT OTHERWISE SHOWN, AS FOLLOWS:

8"	#4 @ 8 EW, MIDE
10"	#4 @ 12 EW, EF
12"	#4 @ 10 EW, EF
14" & 15"	#4 @ 9 EW, EF
16"	#4 @ 8 EW, EF

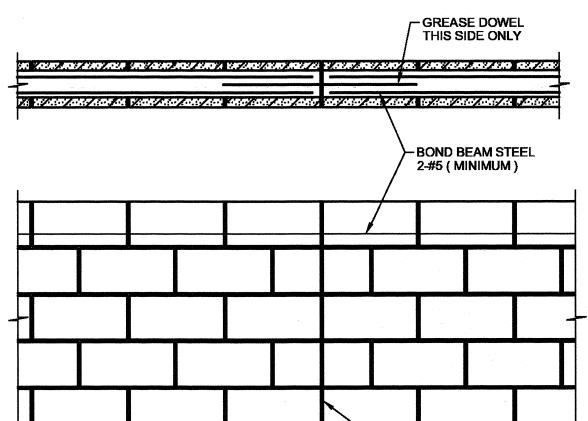
- b. ADD 2-#5 CONTINUOUS AT THE TOP OF ALL WALLS.
- 16. STUD SHEAR CONNECTORS AND CONCRETE ANCHORS SHALL BE AUTOMATICALLY END WELDED HEADED STUDS OF STANDARD MANUFACTURER. WHERE USED AS CONCRETE ANCHORS IN CURB AND EDGE ANGLES ONLY, WELDED FLAT BARS OF EQUAL YIELD LOAD VALUES MAY BE SUBSTITUTED FOR WELDED STUD.
- 17. SEE EQUIPMENT MANUFACTURERS DRAWINGS FOR SIZES AND/OR LOCATIONS OF EQUIPMENT PIERS & PADS, ANCHOR BOLTS, FRAMES SUPPORTING EQUIPMENT, AND OPENINGS IN SLABS AND GRATING. CONTRACTOR TO VERIFY OPENING SIZES AND LOCATIONS OF SLEEVES, ETC. WITH SHOP DRAWINGS FOR EQUIPMENT.
- 18. UNLESS OTHERWISE SHOWN OR NOTED, ALL PIERS AND FOOTINGS ARE LOCATED ON COLUMN CENTER LINES.
- 19. FOR COORDINATES TO LOCATE STRUCTURES, SEE CIVIL DRAWINGS.
- 20. UNLESS OTHERWISE NOTED, POROUS FILL AND WATERPROOF PAPER SHALL BE PLACED UNDER ALL CONCRETE SLABS ON GRADE, TANK BOTTOMS AND FOUNDATIONS. FOR ADDITIONAL INFORMATION, SEE SPECIFICATION SECTION 03300, ITEMS 2.04H & 3.03B
- 21. UNLESS OTHERWISE NOTED, ALL CONCRETE COLUMN REINFORCEMENT, TIES AND SPLICES SHALL BE DETAILED, FABRICATED AND PLACED IN ACCORDANCE WITH ACI 315.
- 22. ALL CONSTRUCTION SHALL CONFORM TO THE PROVISIONS OF THE LATEST AISC CODE. SECTIONS 3.1, 3.4, 3.5, AND 4.2 OF THE AISC CODE OF STANDARD PRACTICE ARE EXCLUDED FROM THIS PROJECT.
- 23. UNLESS OTHERWISE NOTED, ALL BOLTS FOR BOLTED STRUCTURAL JOINT FASTENERS SHALL BE 3/4" DIAMETER HIGH STRENGTH STRUCTURAL BOLTS, ASTM A-325.
- 24. CONTRACTOR TO PROVIDE ADEQUATE BRACING FOR STRUCTURE SO THAT IT WILL BE STABLE DURING ALL STAGES OF CONSTRUCTION. THE STRUCTURE AND FOUNDATIONS ARE DESIGNED FOR A COMPLETED CONDITION ONLY AND THEREFORE REQUIRES ADDITIONAL SUPPORT TO MAINTAIN STABILITY BEFORE COMPLETION.
- 25. GUSSET PLATES SHALL BE 3/8" THICK MINIMUM.
- 26. WHERE PRACTICAL, UNLESS SHOWN DIFFERENTLY ON DRAWINGS, ALL BRACING CONNECTIONS SHALL BE DESIGNED AND DETAILED SO THAT ALL FORCE COMPONENTS CAN BE DELIVERED DIRECTLY TO THE CENTERLINE OF INTERSECTING MEMBERS.
- 27. THE CONTRACTOR IS TO COORDINATE THE STRUCTURAL DRAWINGS WITH THE SANITARY, ARCHITECTURAL, ELECTRICAL AND MECHANICAL DRAWINGS AND MAKE CERTAIN ALL PIPE SLEEVES, DUCTS, INSERTS AND HOLES ARE LOCATED AND IN PLACE BEFORE EACH CONCRETE POUR.
- 28. OMISSIONS, CONFLICTS OR MISUNDERSTANDINGS BETWEEN THE VARIOUS ELEMENTS OF THE CONTRACT DOCUMENTS, IF ANY, SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER FOR RESOLUTION BEFORE PROCEEDING WITH THE WORK.
- 29. MEMBERS AND BRACING REQUIRED TO SUPPORT EQUIPMENT FROM (OR ATTACH IT TO) THE STRUCTURAL FRAMING SHOWN ON THE DRAWINGS SHALL BE DESIGNED AND PROVIDED BY THE CONTRACTOR SUPPLYING THE EQUIPMENT.
- 30. UNLESS OTHERWISE NOTED THE CONTRACTOR SHALL NOTIFY THE OWNER OF RECORD, IF THERE IS A CONFLICT BETWEEN DRAWING AND SPECIFICATION OR BETWEEN DRAWINGS.
- 31. WHERE FLOOR DRAINS ARE SHOWN ON THE PLUMBING DRAWINGS, CONTINUOUSLY SLOPE FLOOR FROM WALL TO DRAIN.
- 32. CHEMICAL ADHESIVES SHALL BE EPOXY ICC-ES-ESR-1772 OR ACRYLIC ICC-ES-ESR-5791.

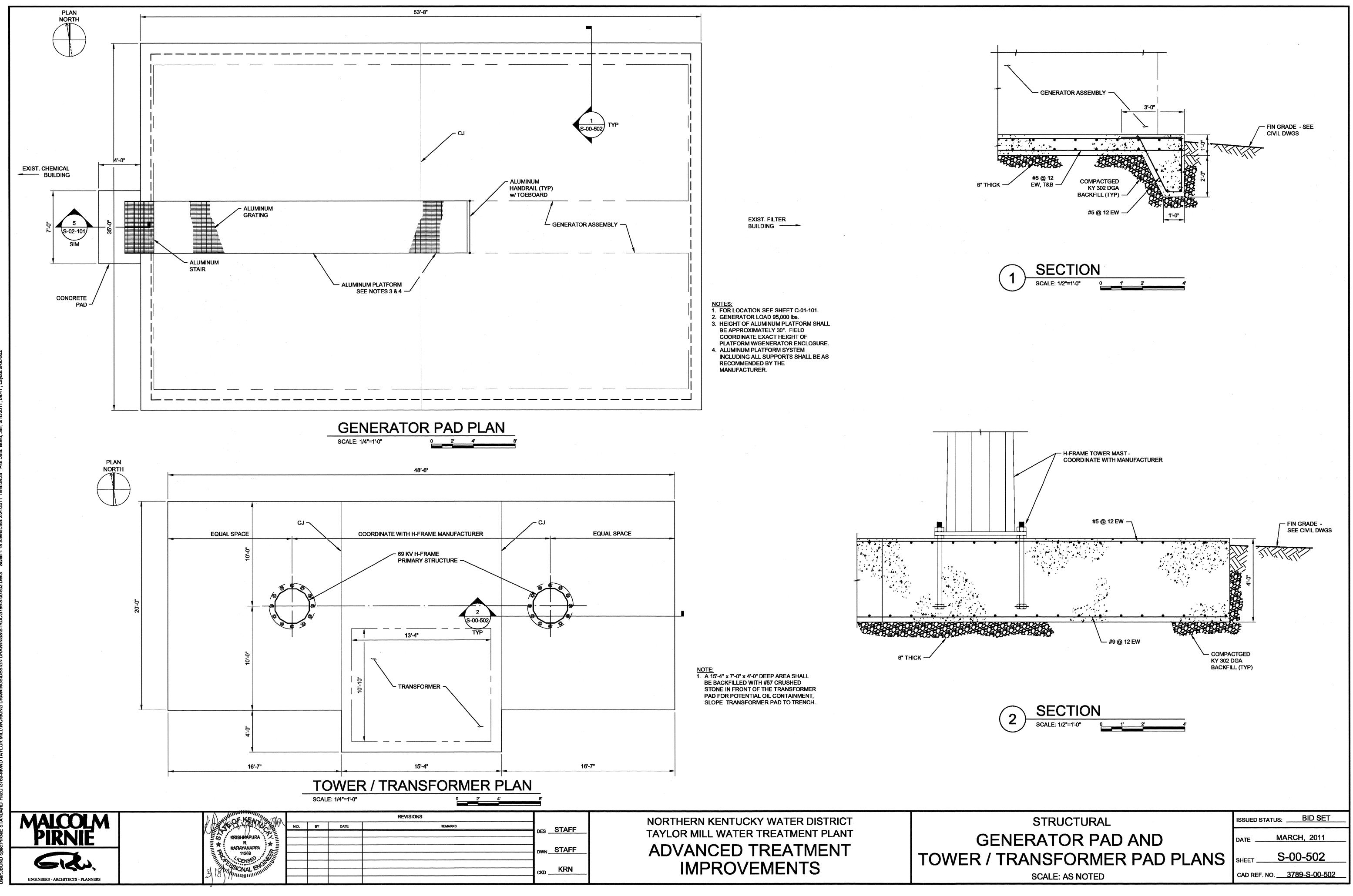
STRUCTURAL TYPICAL DETAILS AND GENERAL STRUCTURAL NOTES SCALE: AS NOTED ISSUED STATUS: <u>BID SET</u>
DATE <u>MARCH, 2011</u>
SHEET <u>S-00-001</u>
CAD REF. NO. <u>3789-S-00-001</u>

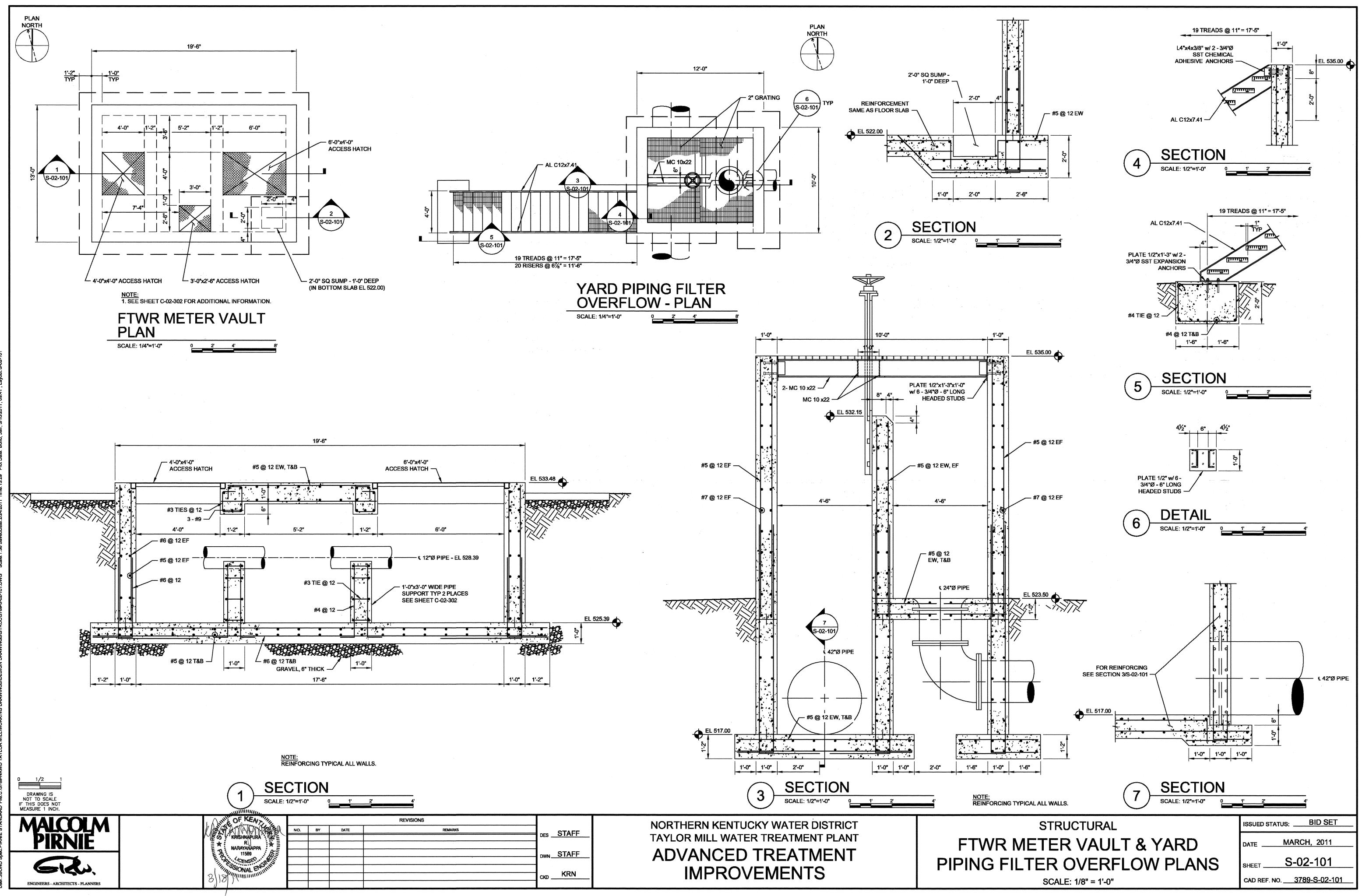


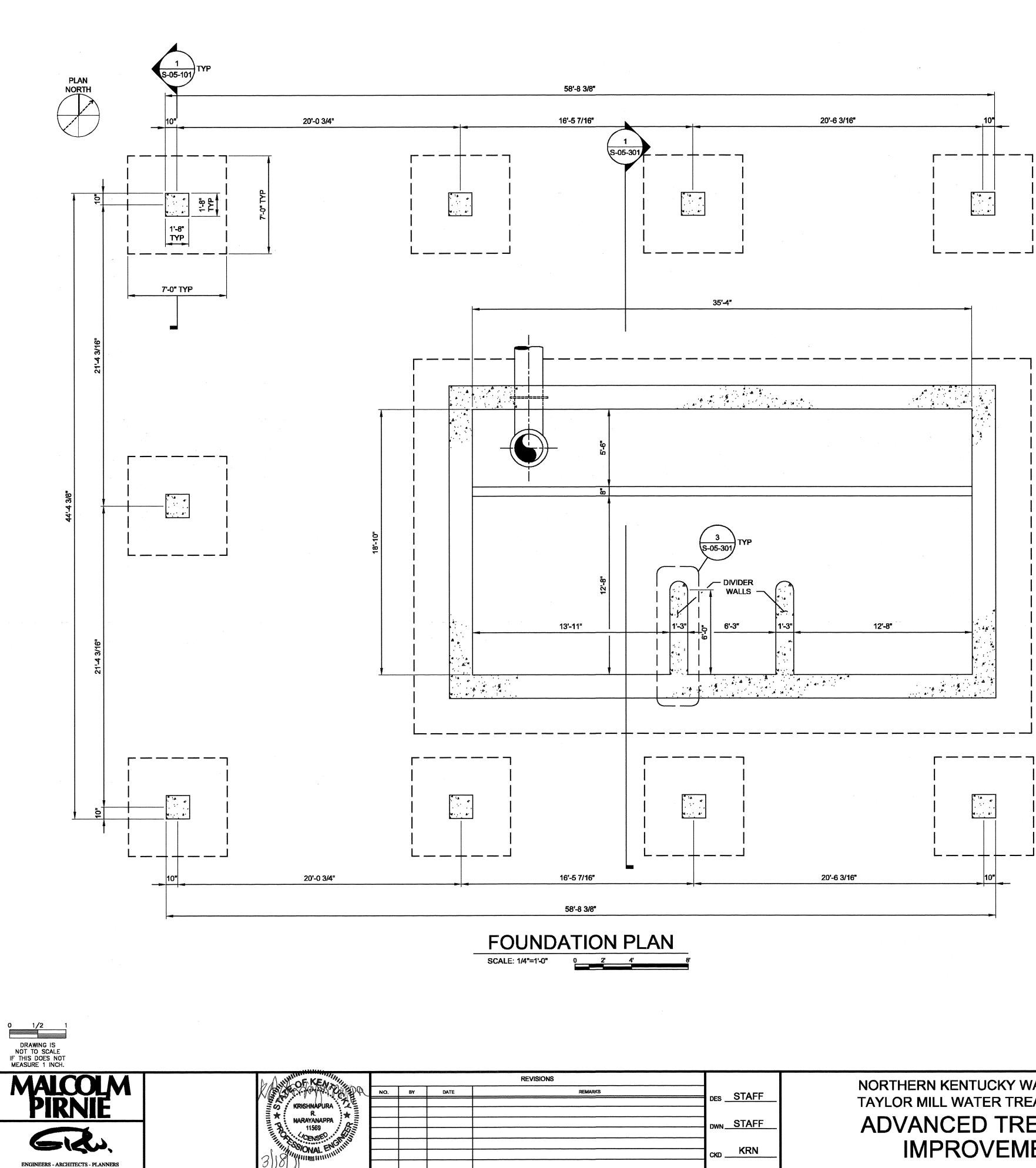
,	4" BRICK	OR BLOCK	8" BLOCK 12" BLOCK		14" WALL		20" WALL			
I	SIZE	SHAPE	SIZE	SHAPE	SIZE	SHAPE	SIZE	SHAPE	SIZE	
*	L 4 X 4 X 5/16		BOND BEAM w/ 2-#5		BOND BEAM w/ 2-#6		PLATE 13" X 3/8" w/ 2 - 6" X 5/8" PLATE LEGS		PLATE 19" X 3/4 □ 2 - 6" X 5/8" PL/	
)"			W 8 X 28 w/ PLATE 1/4" X 7"	I	W8 X 28 w/ PLATE 5/16" X 11"	Ţ	W8 X 28 w/ PLATE 5/16" X 13"	A		
		des <u>STAFF</u> dwn <u>STAFF</u> ckd <u>KRN</u>	NORTHERN KENTUCKY WATER DISTRICT TAYLOR MILL WATER TREATMENT PLANT ADVANCED TREATMENT IMPROVEMENTS							Т

RTAF						
	OINT	MASONRY CONTROL JOINT IN BOND BEAM				
UL	E					
ALL		STIFFENER	DEMARKS			
	SHAPE	PLATE	REMARKS			
GS		1/4" THICK AT 32" O.C.				
	A	1/4" THICK AT 32" O.C.	PROVIDE BEARING PLATE 3/8" THK. PROVIDE 2-1/2"Ø HEADED STUDS, 6" LONG, FOR DETAILS SEE THIS SHEET			
	STRI	JCTURAL	ISSUED STATUS: BID SET			
TYPICAL DETAILS			DATE MARCH, 2011			
			SHEET S-00-501			
	SCALE:	AS NOTED	CAD REF. NO. <u>3789-S-00-501</u>			





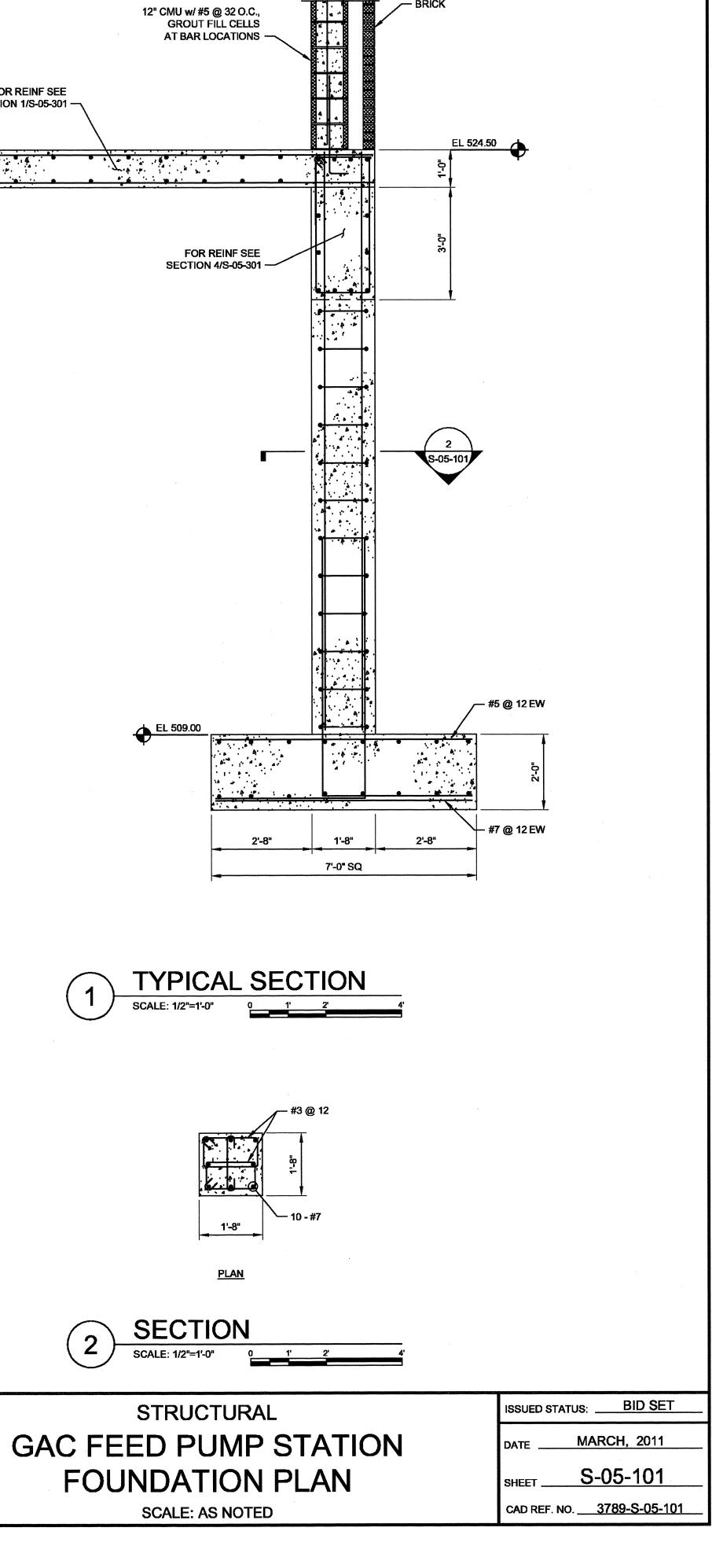




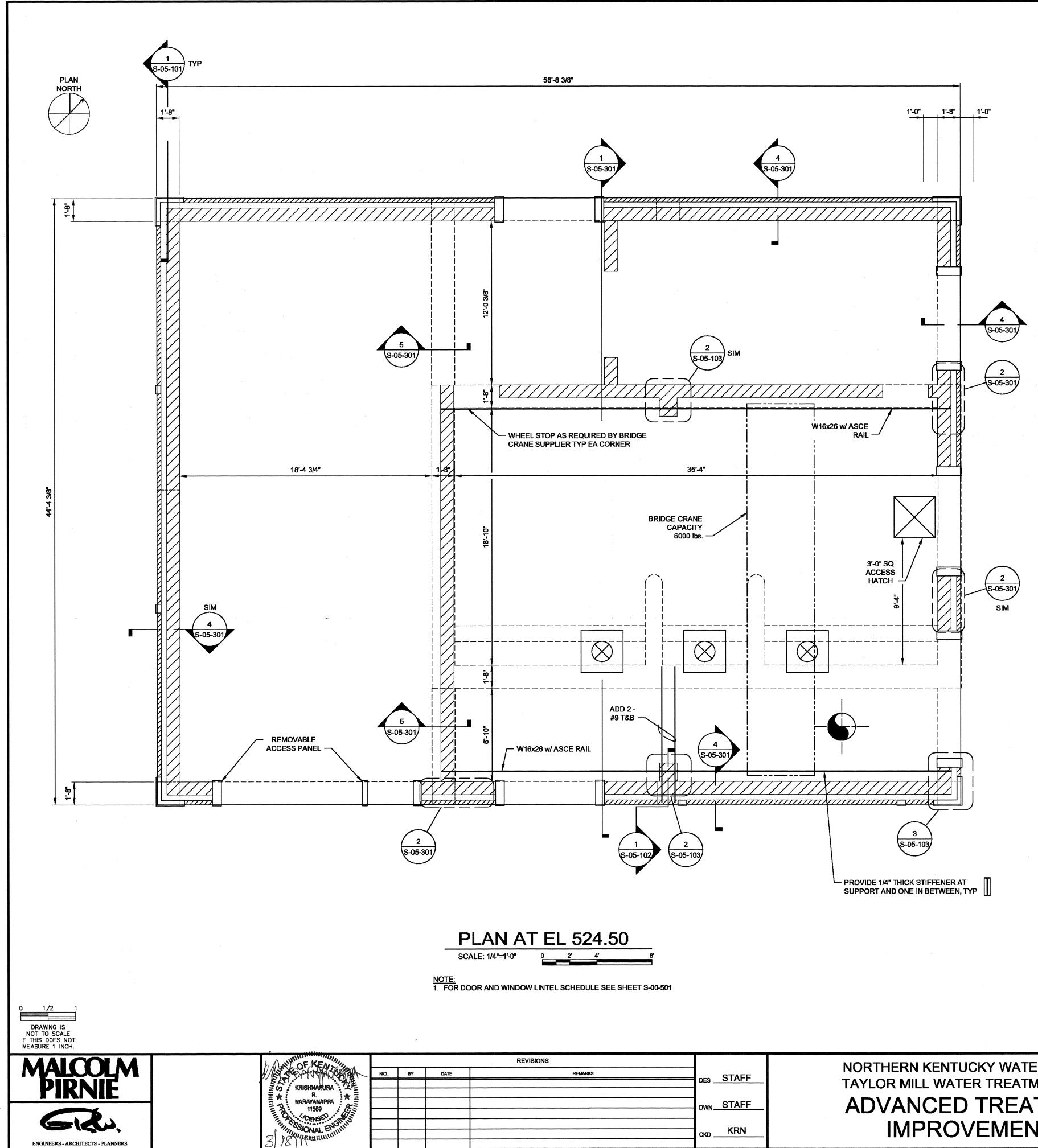
FOR REINF SEE SECTION 1/S-05-301 -

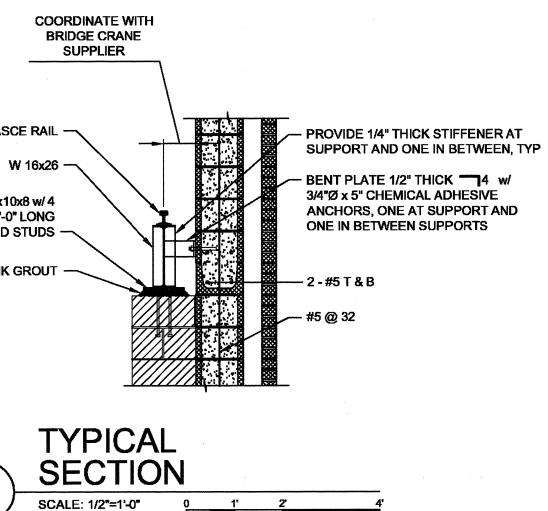
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NORTHERN KENTUCKY WATER DISTRICT TAYLOR MILL WATER TREATMENT PLANT ADVANCED TREATMENT IMPROVEMENTS



- BRICK

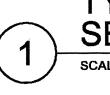




ASCE RAIL

PLATE 1/2x10x8 w/ 4 - 1/2"Ø, 1'-0" LONG HEADED STUDS -

NON- SHRINK GROUT -



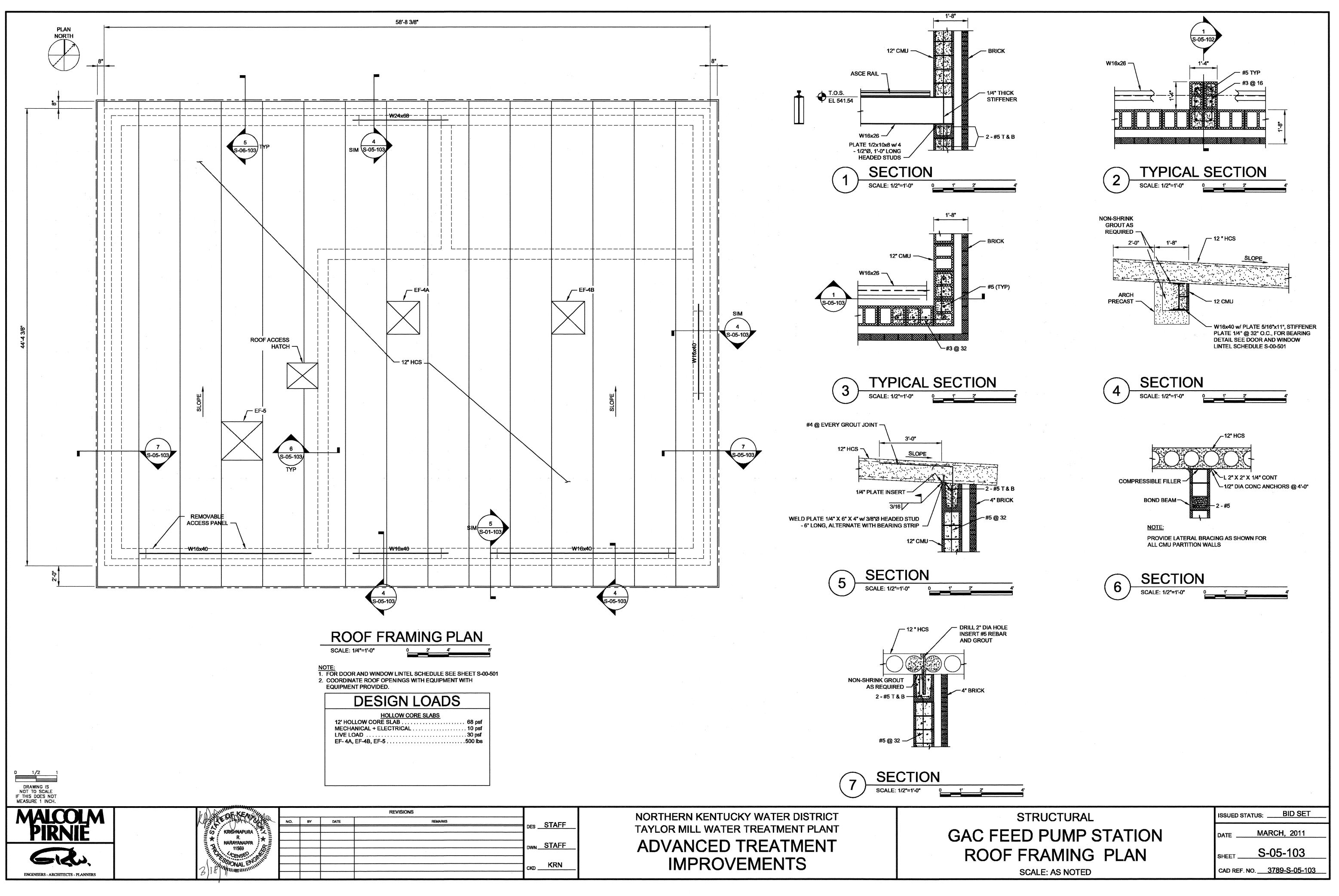
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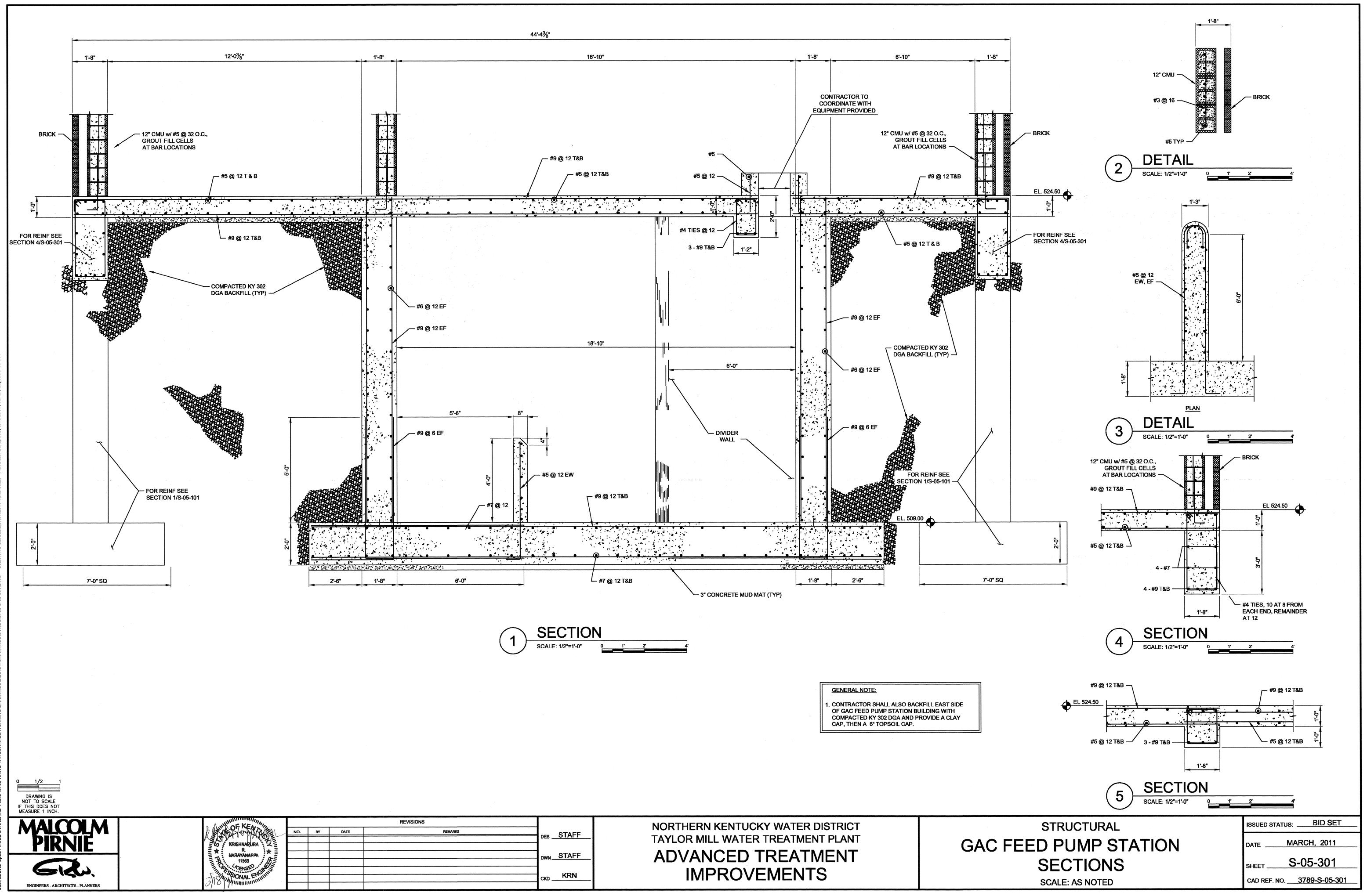
NORTHERN KENTUCKY WATER DISTRICT TAYLOR MILL WATER TREATMENT PLANT ADVANCED TREATMENT IMPROVEMENTS

GAC

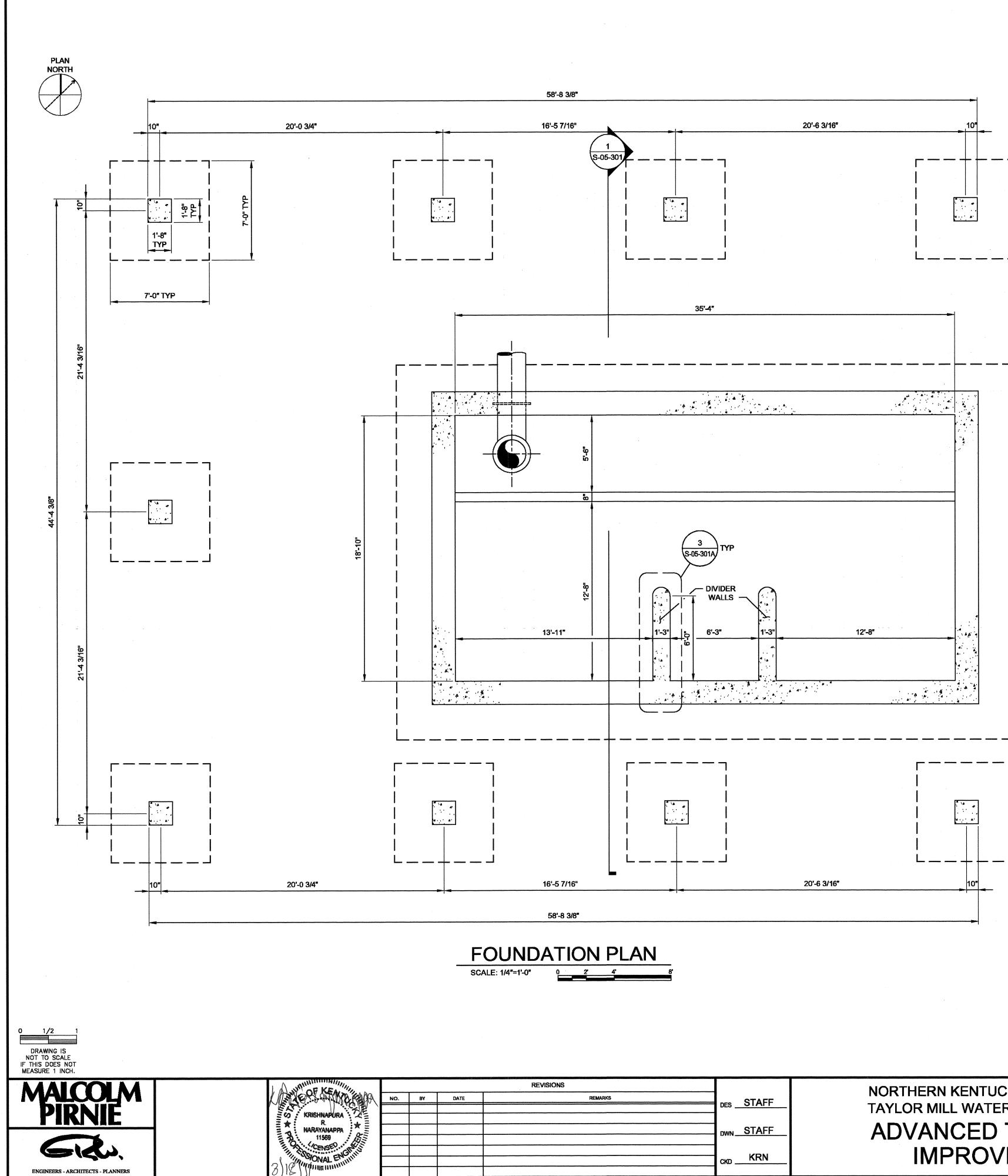
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SCALE: AS NOTED	CAD REF. NO.	3789

ISSUED STATUS:	BID SET
	RCH, 2011
SHEETS	-05-102
CAD REF. NO.	3789-S-05-102



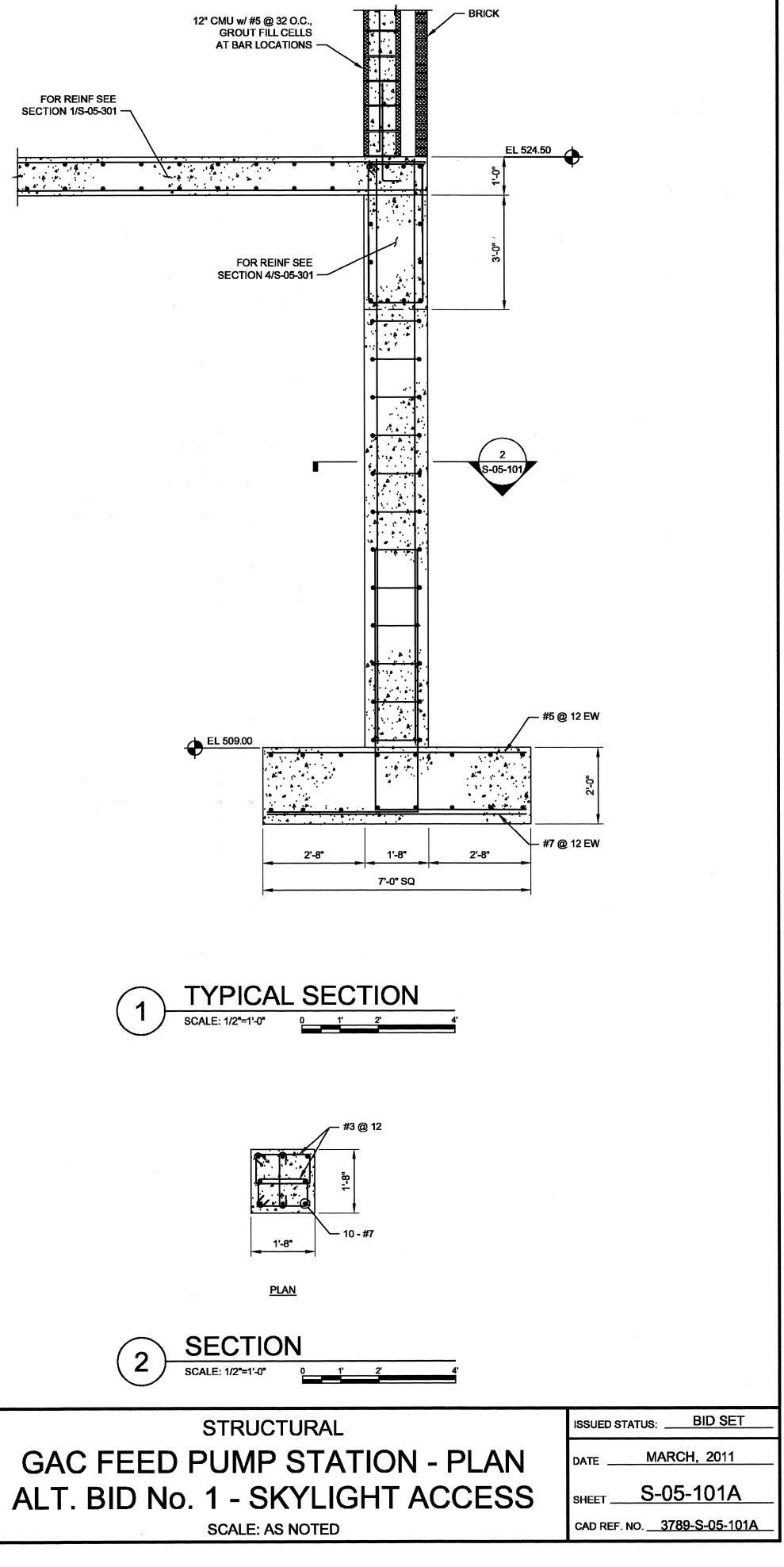


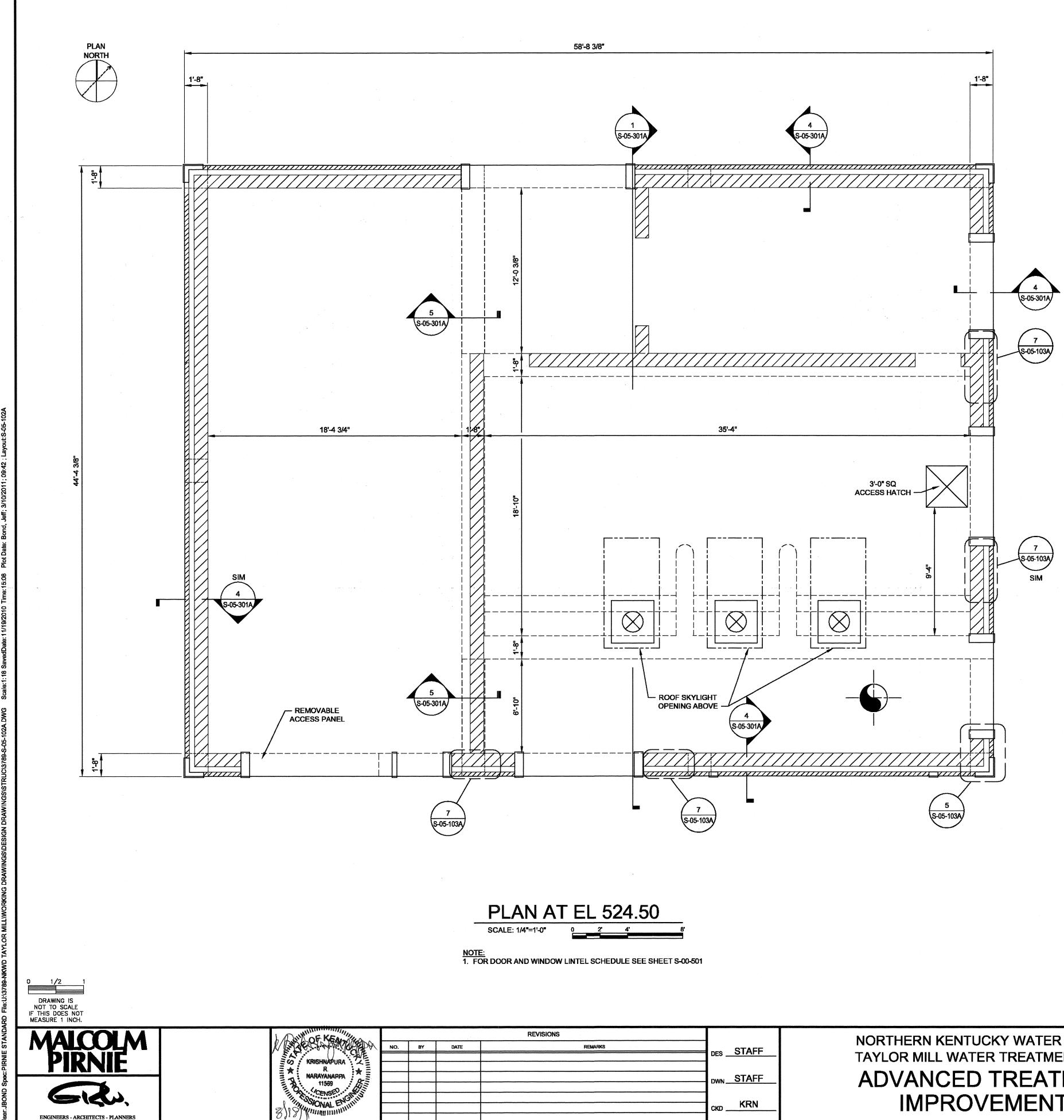
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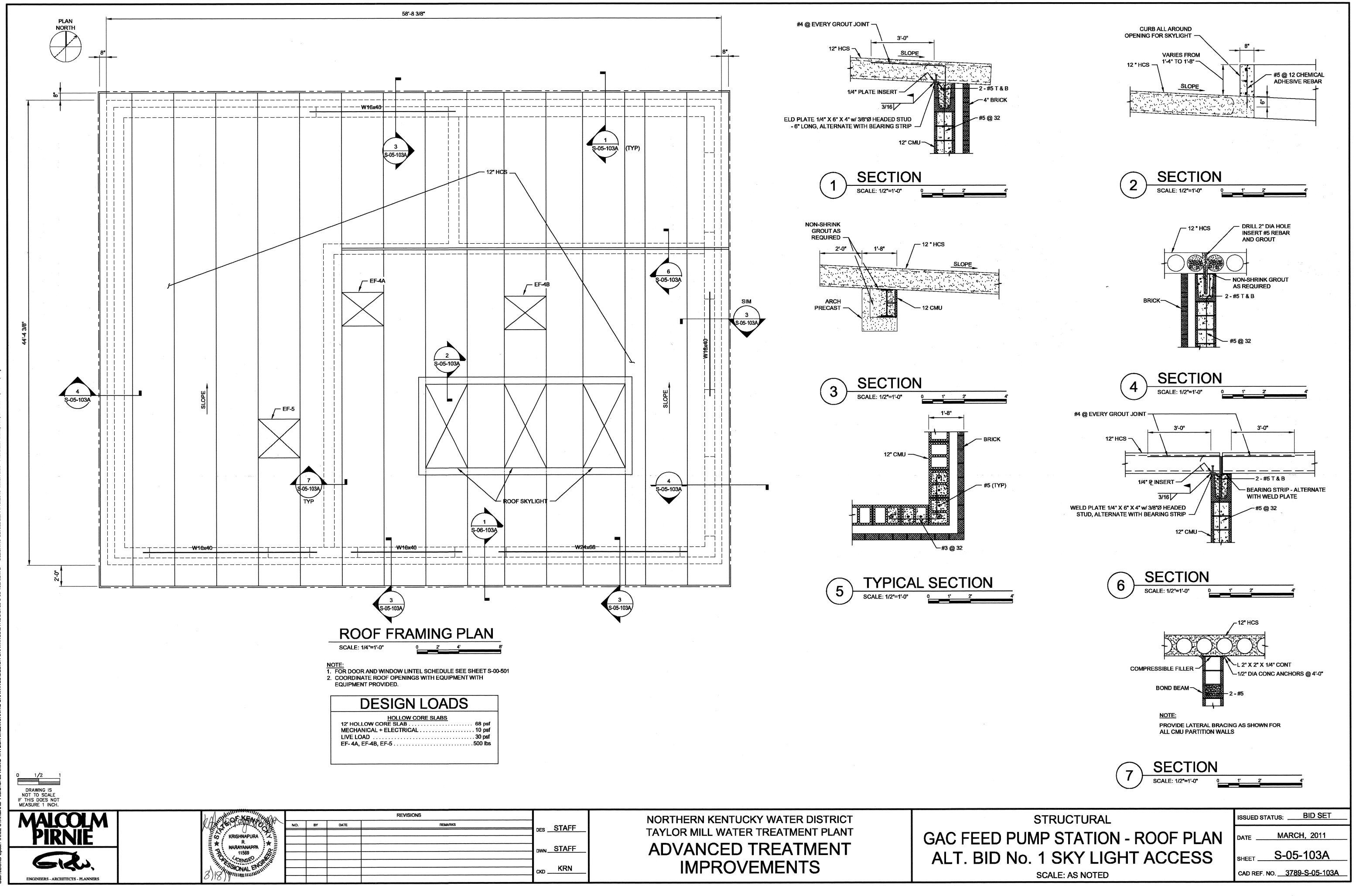
FOR REINF SEE SECTION 1/S-05-301 —



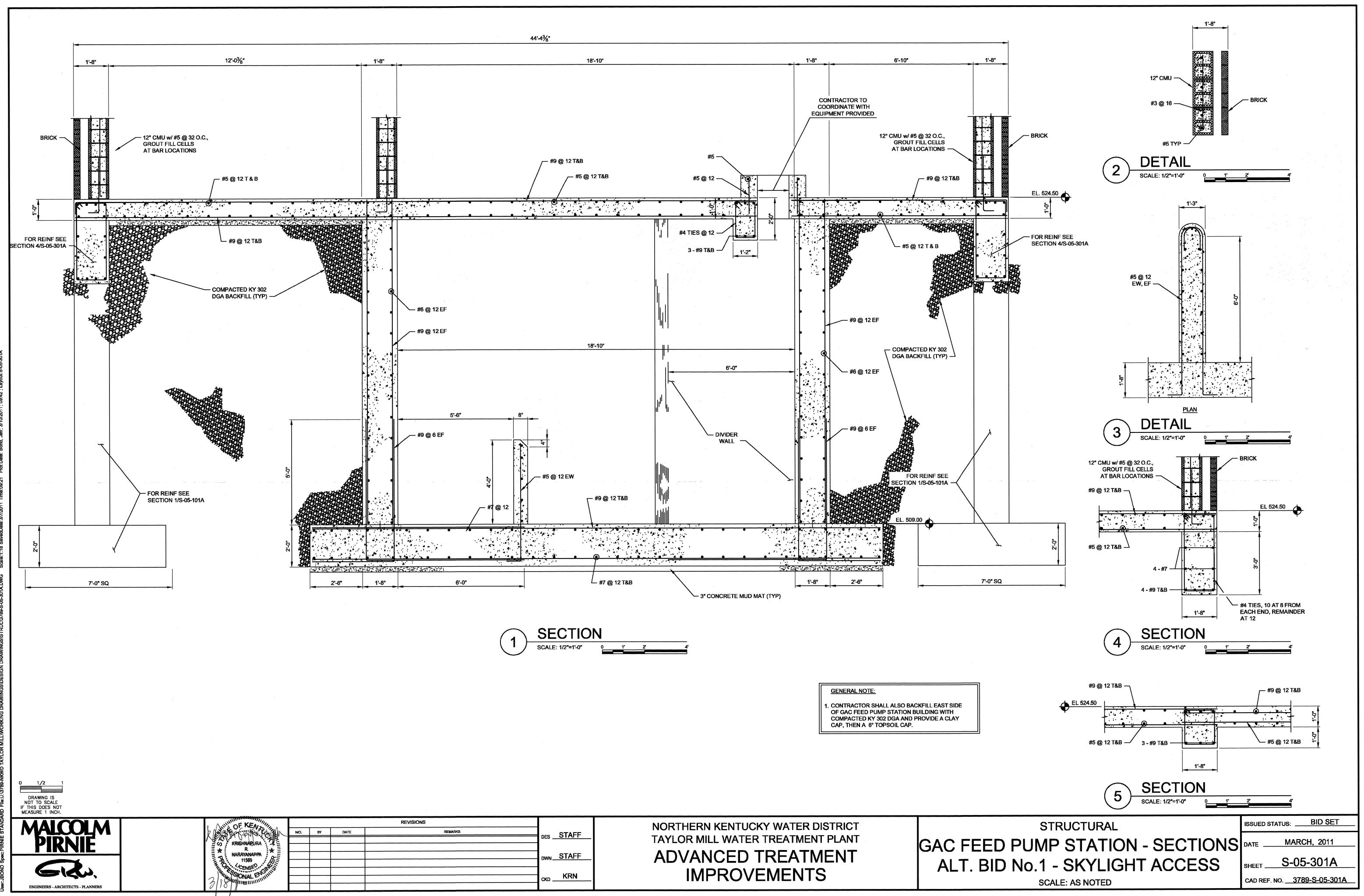


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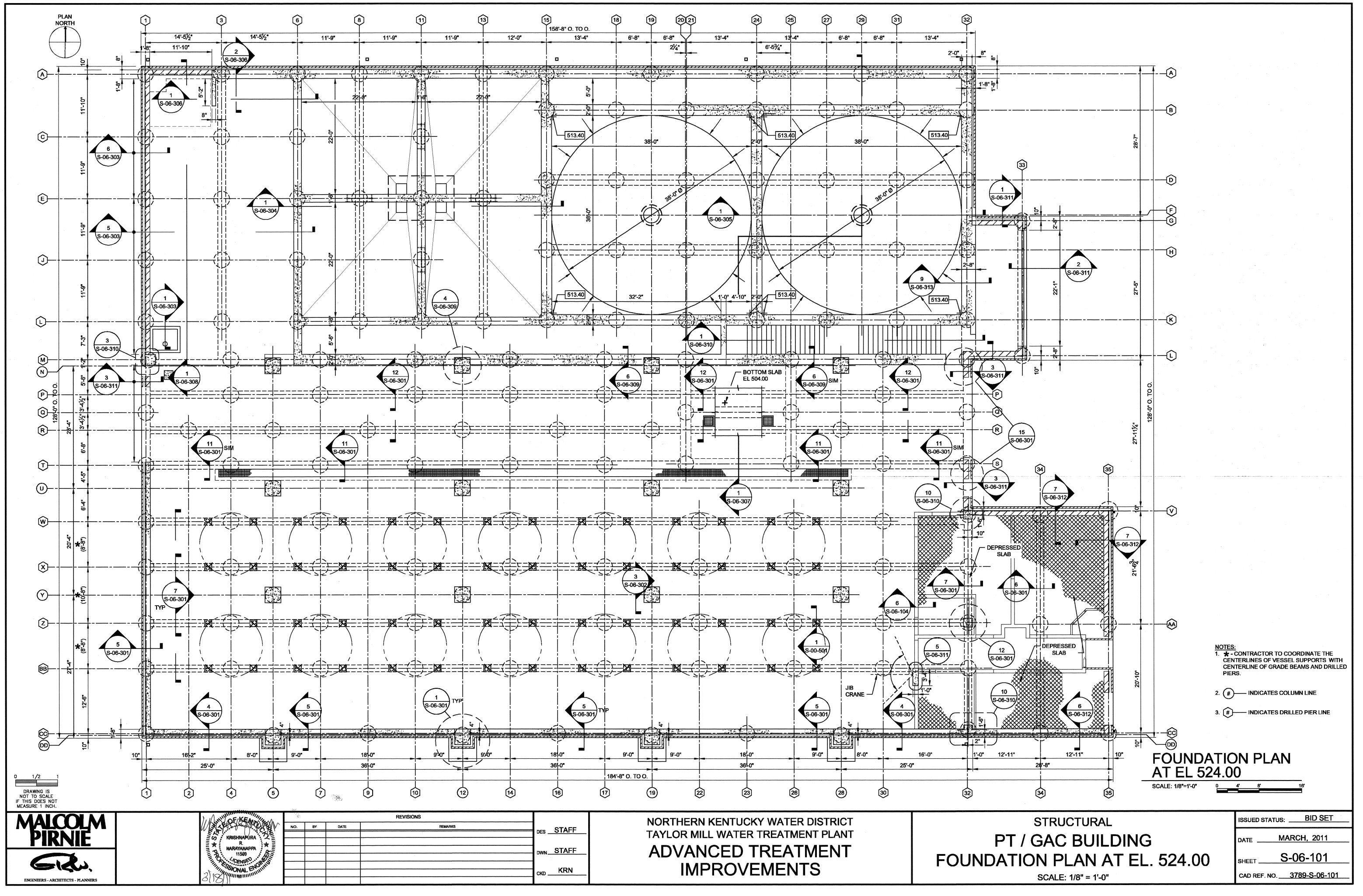
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GAC FEED PUMP STATION - PLAN ALT. BID No. 1 - SKYLIGHT ACCESS	date <u>MARCH, 2011</u> sheet <u>S-05-102A</u>	
SCALE: AS NOTED	CAD REF. NO. <u>37</u>	89-S-05-102A

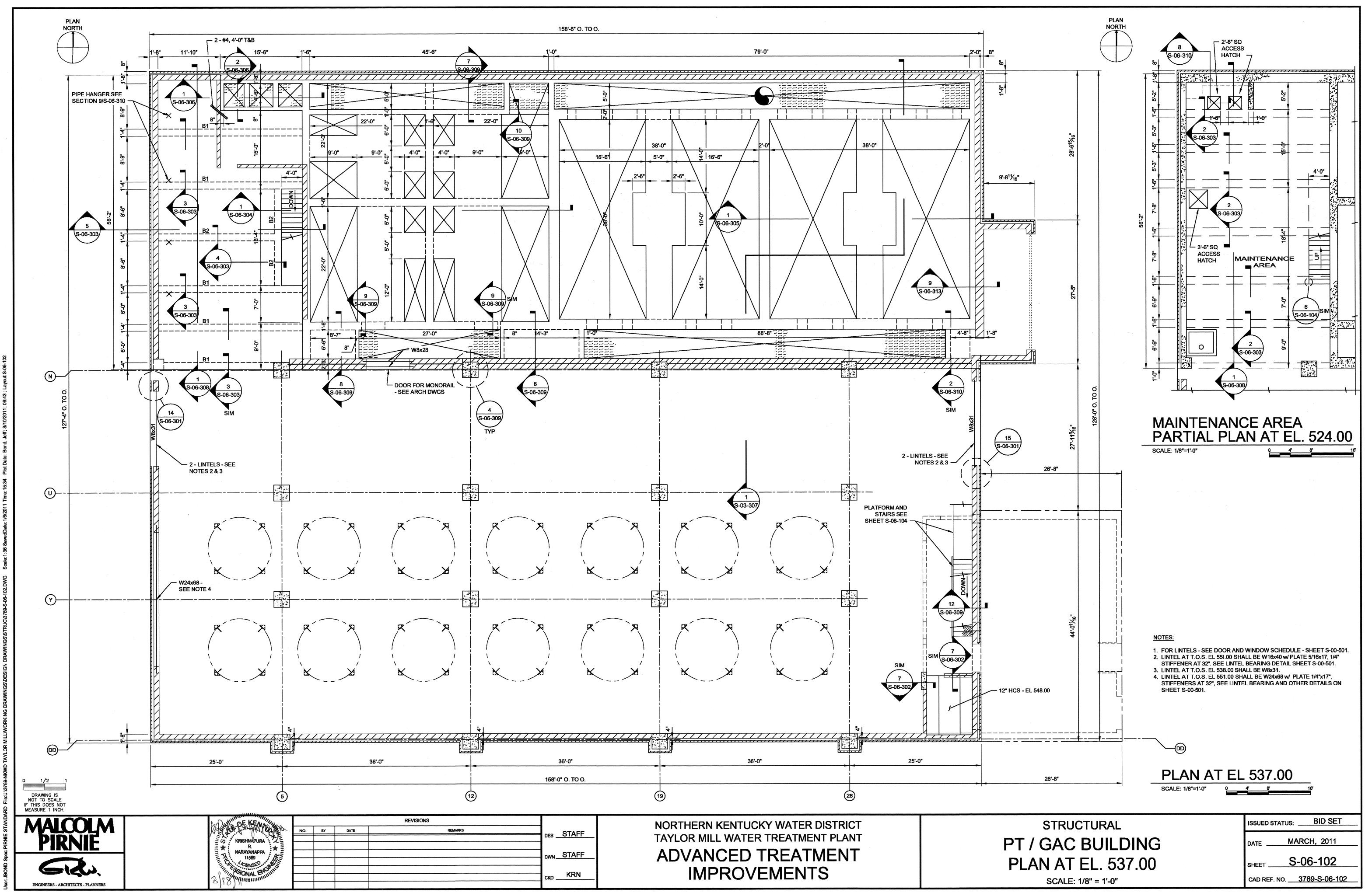


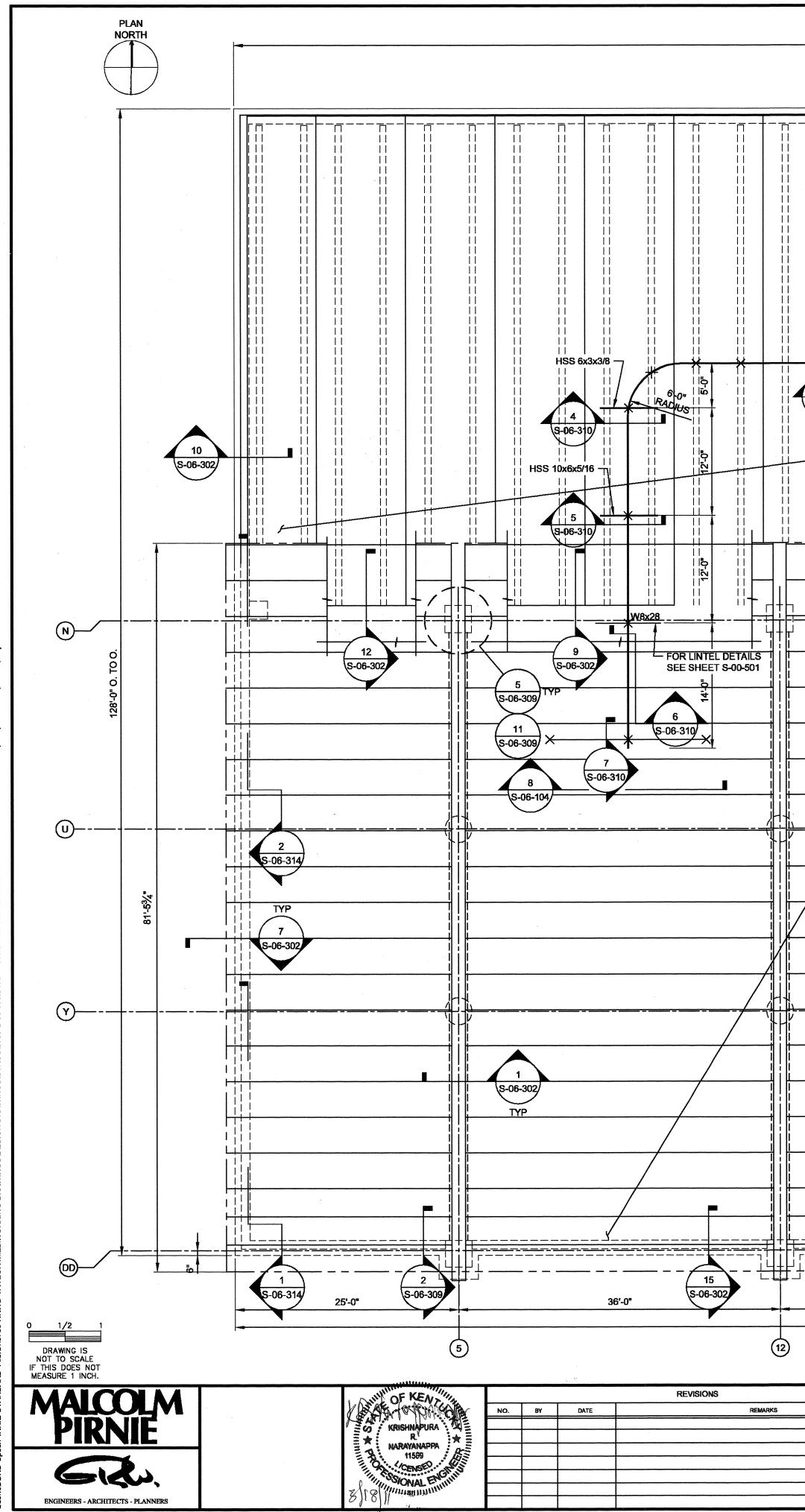
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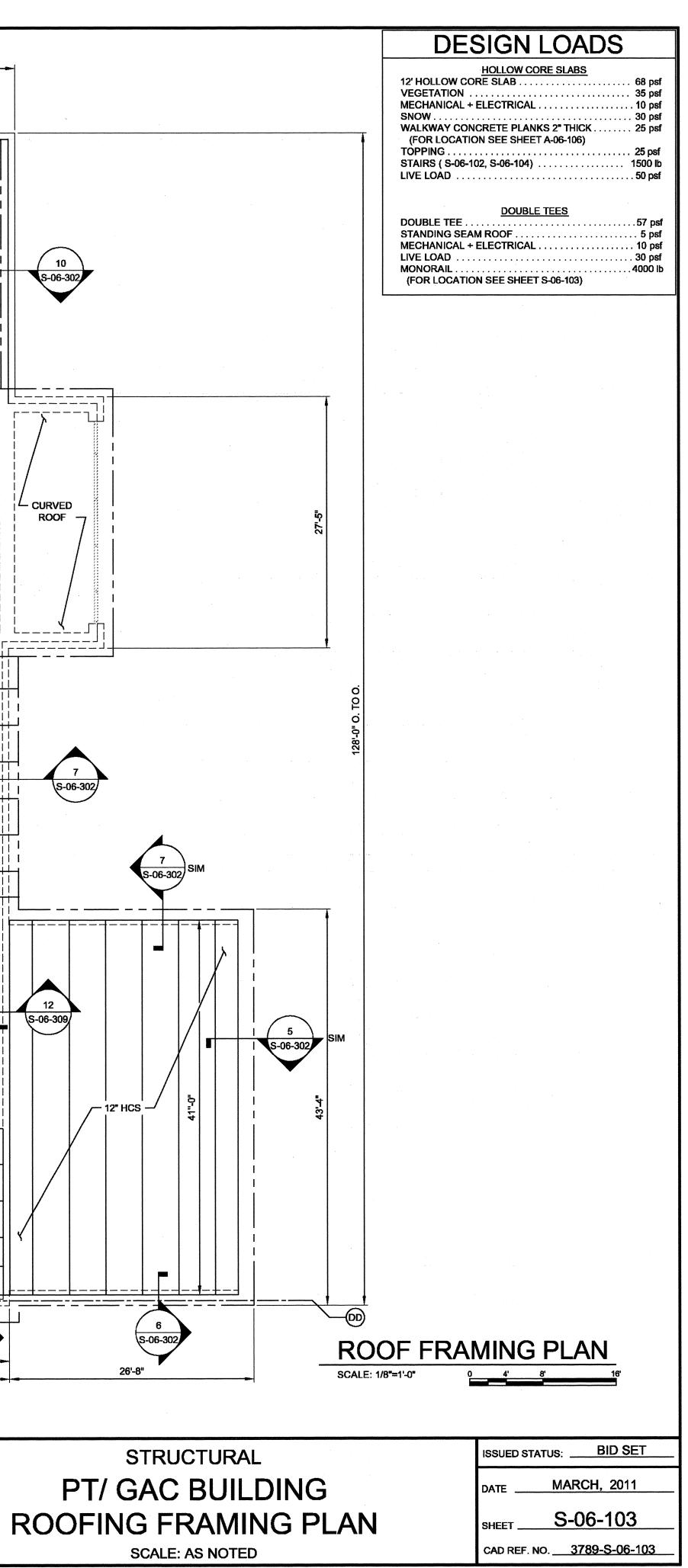


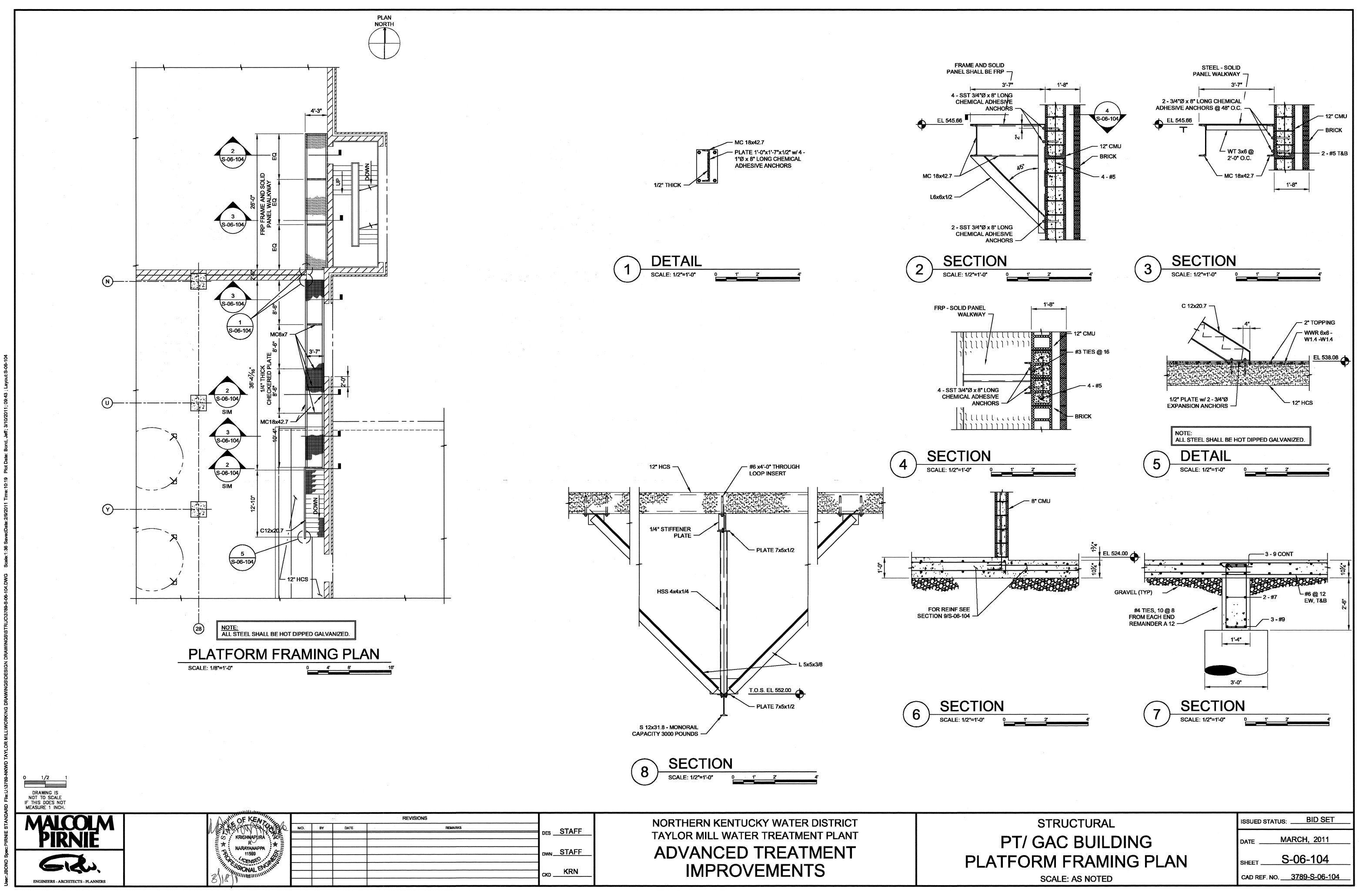


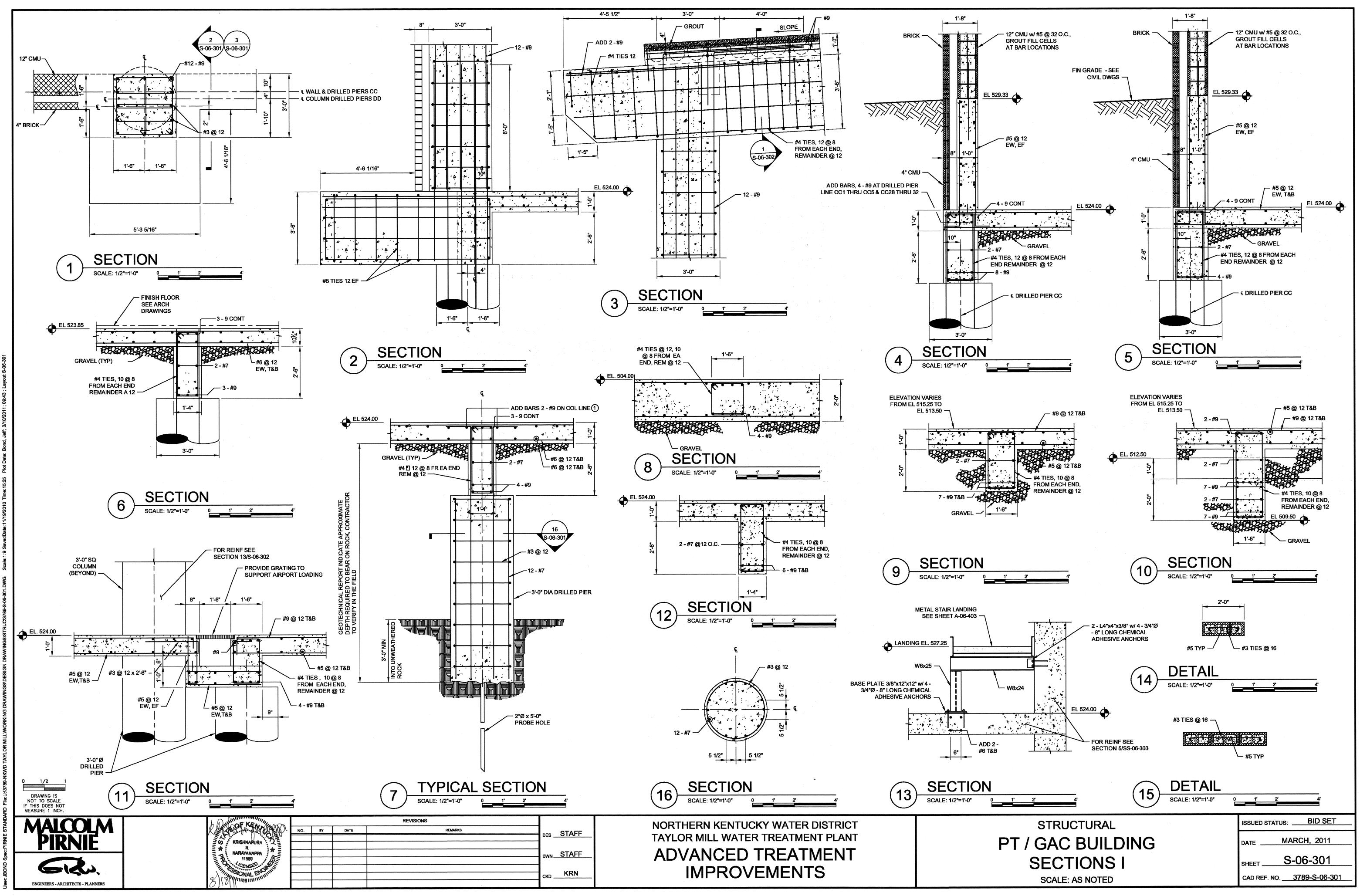
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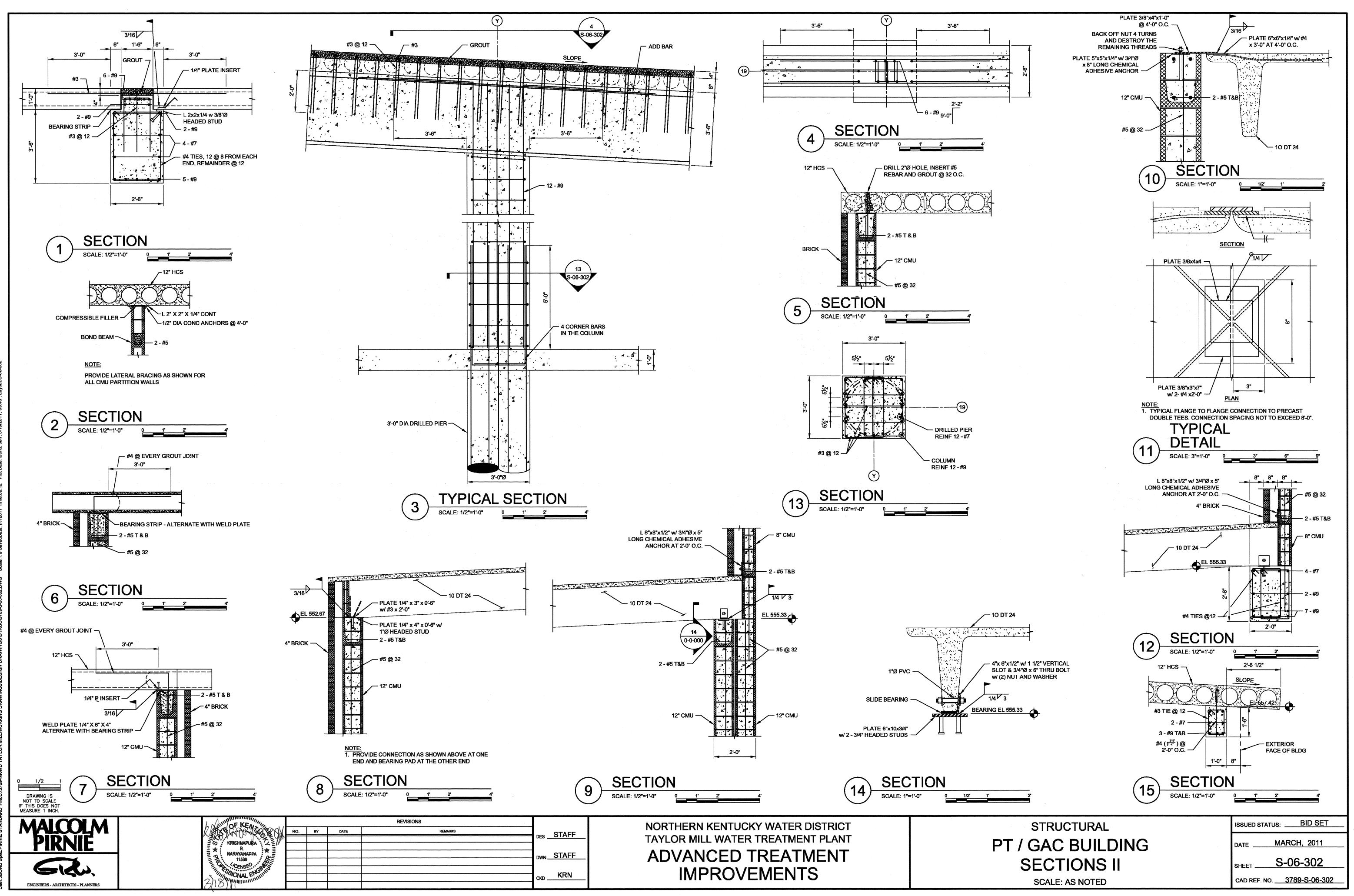
IMPROVEMENTS

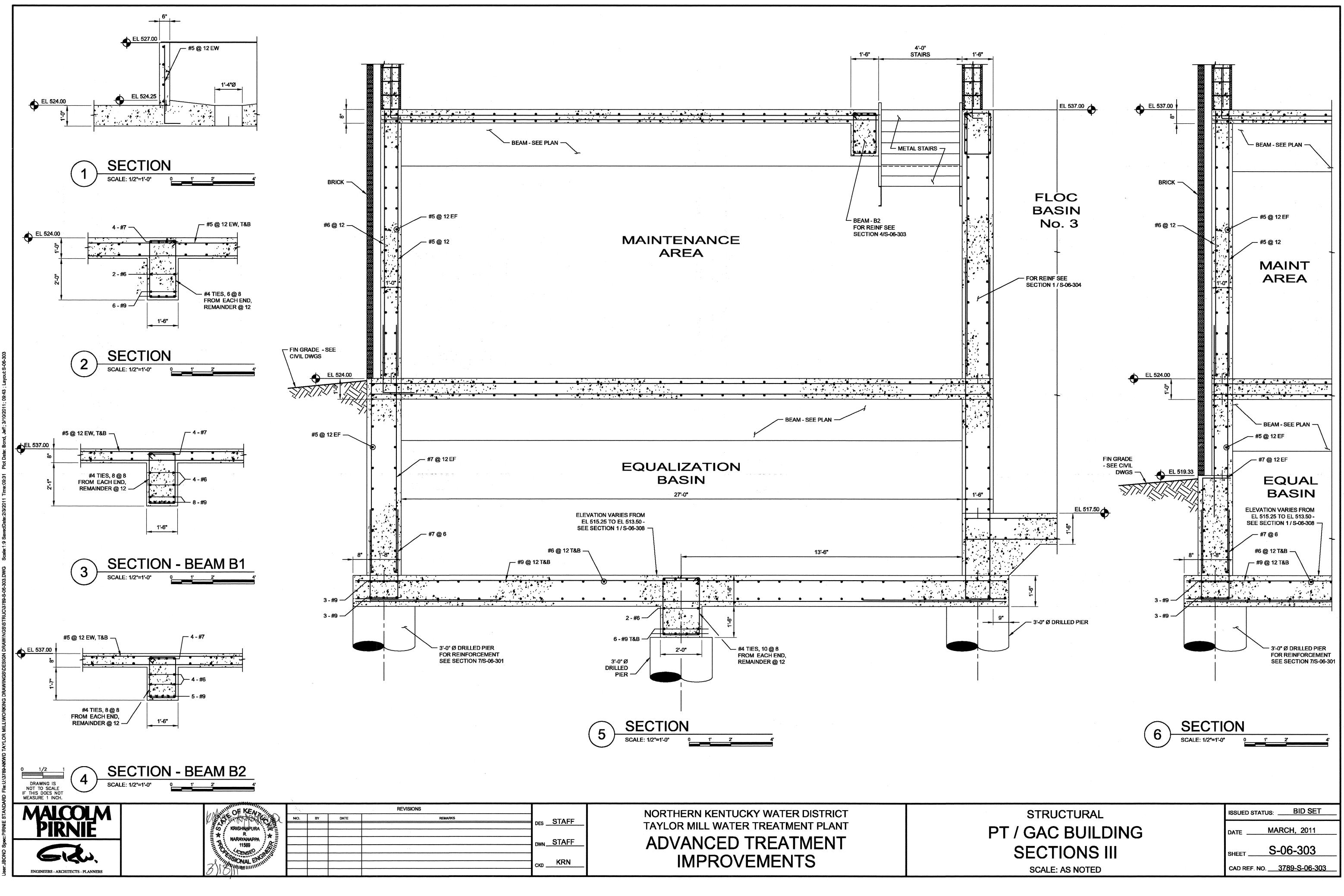
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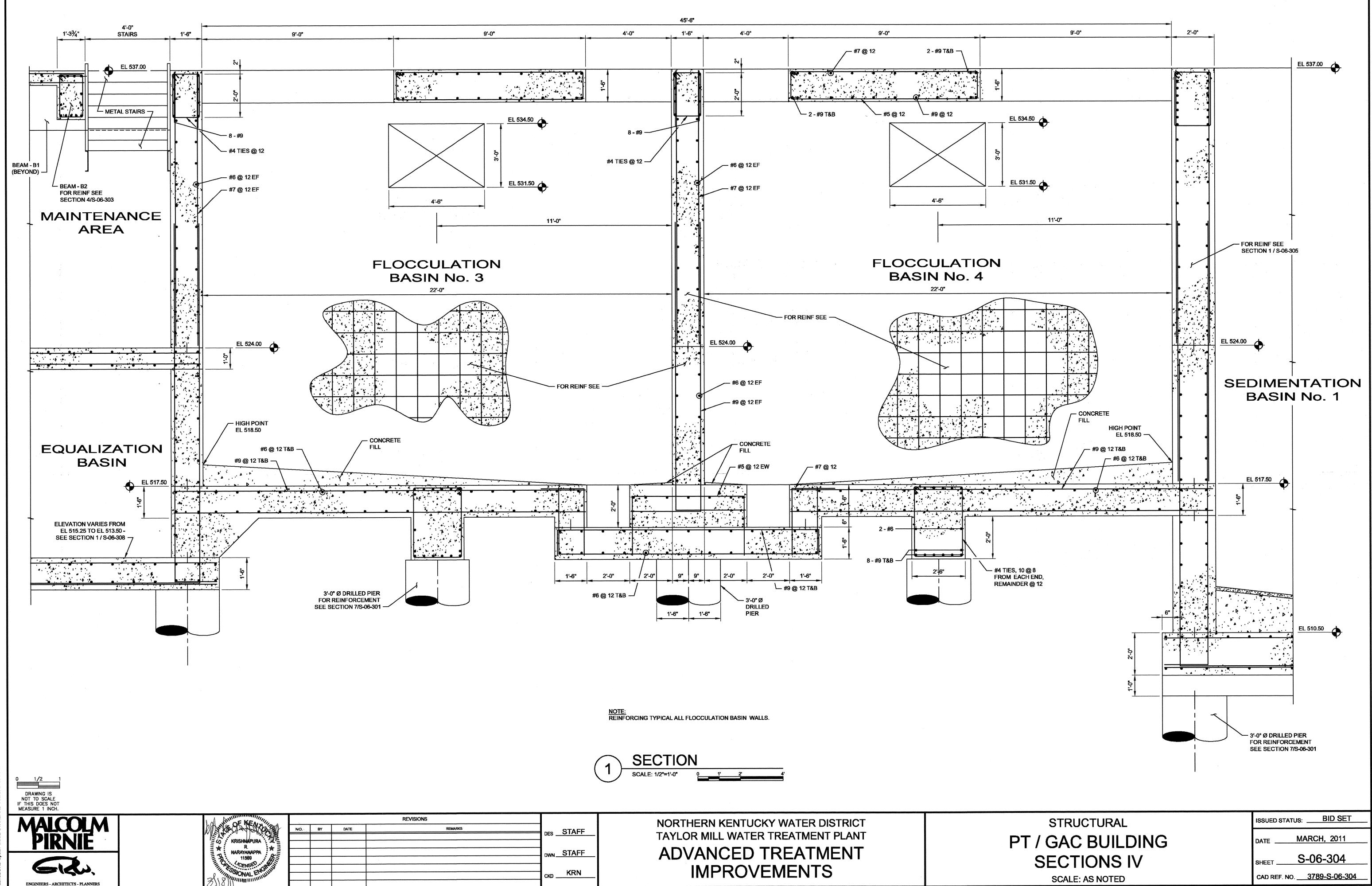


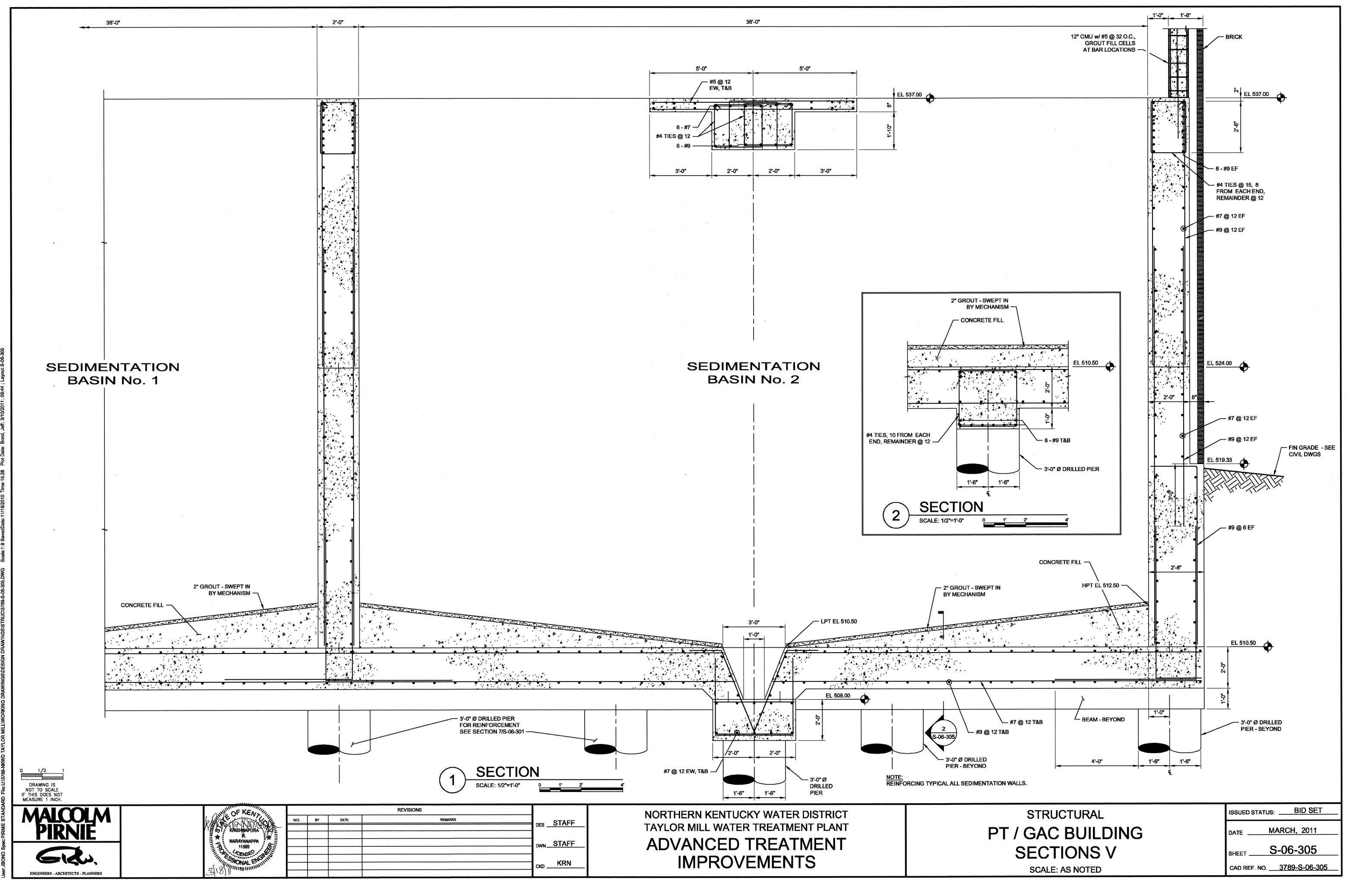




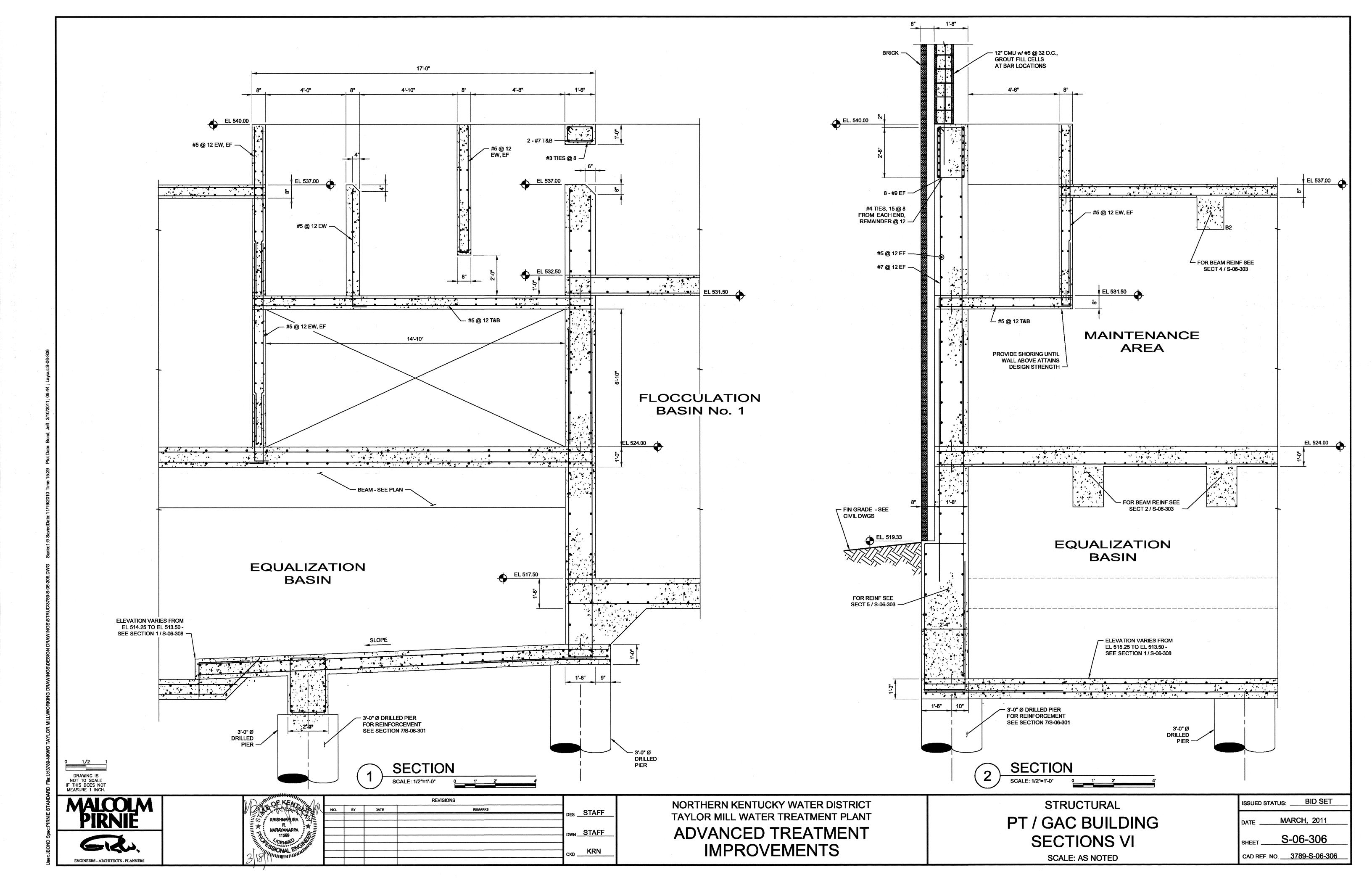


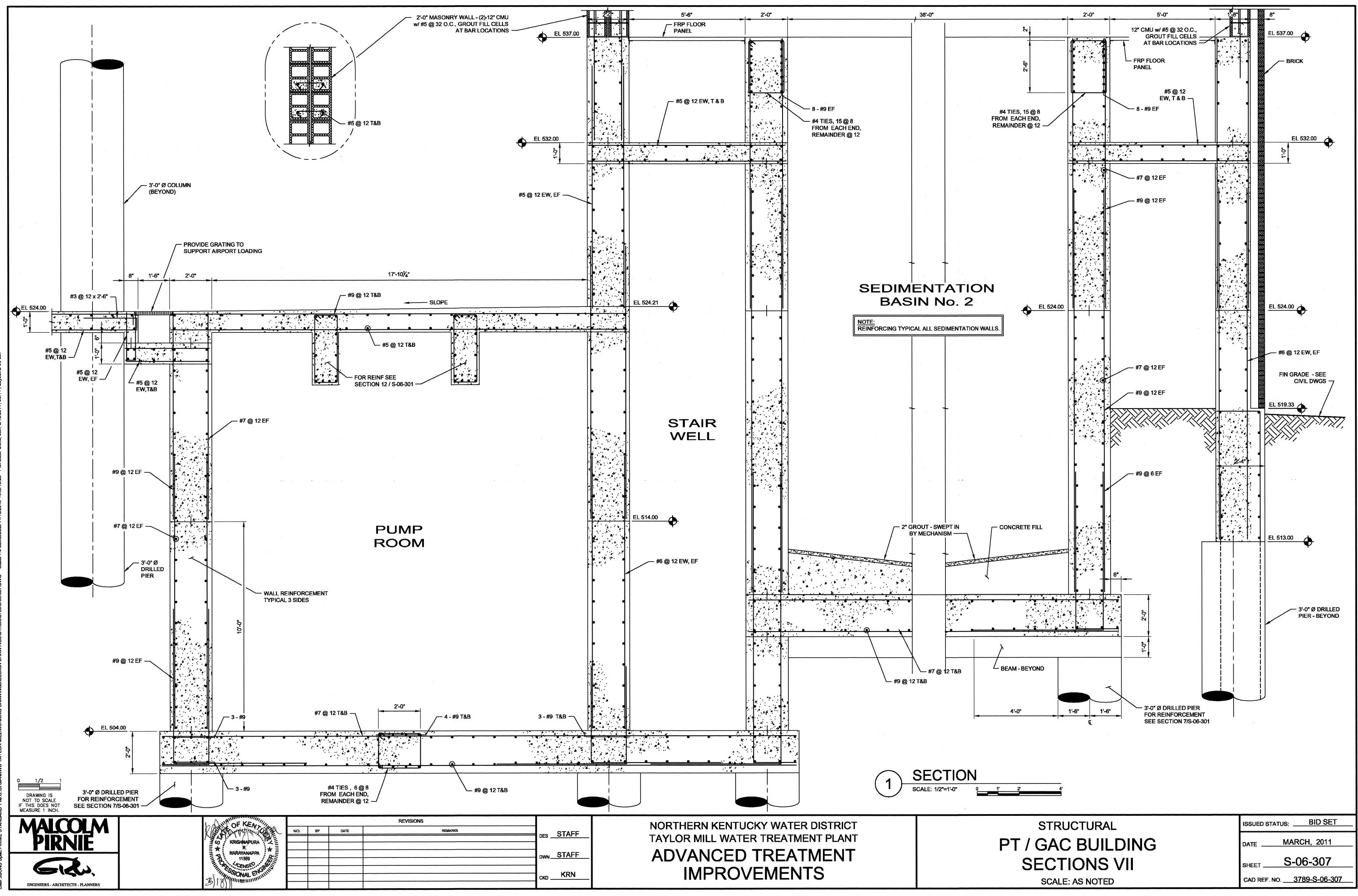


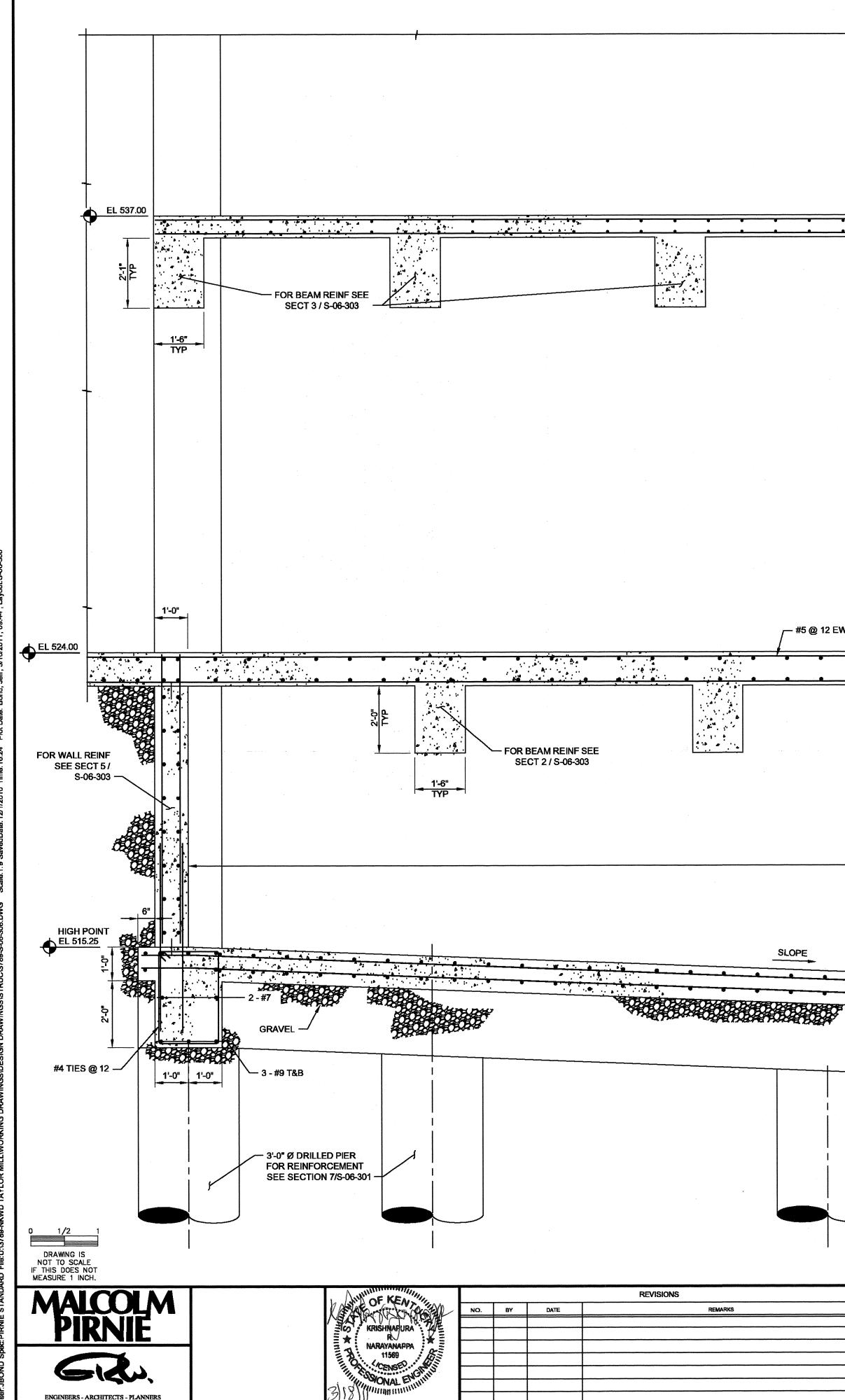










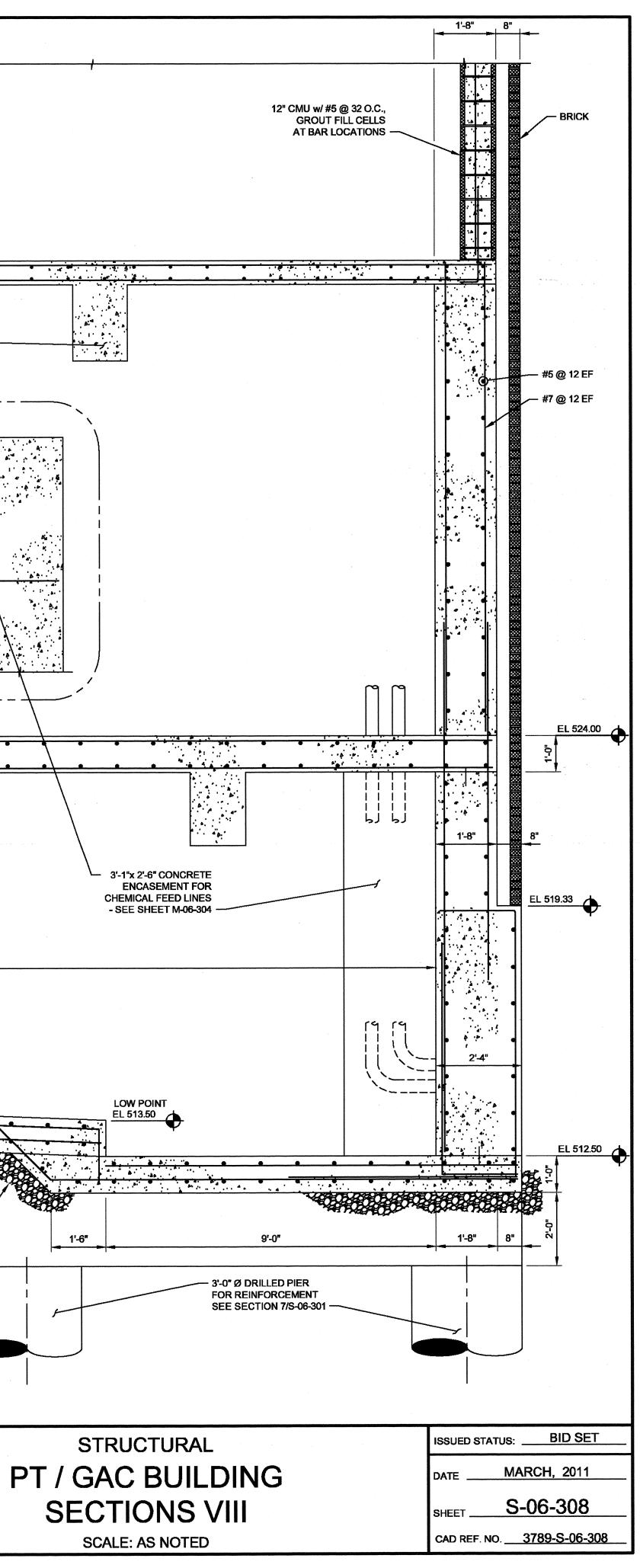


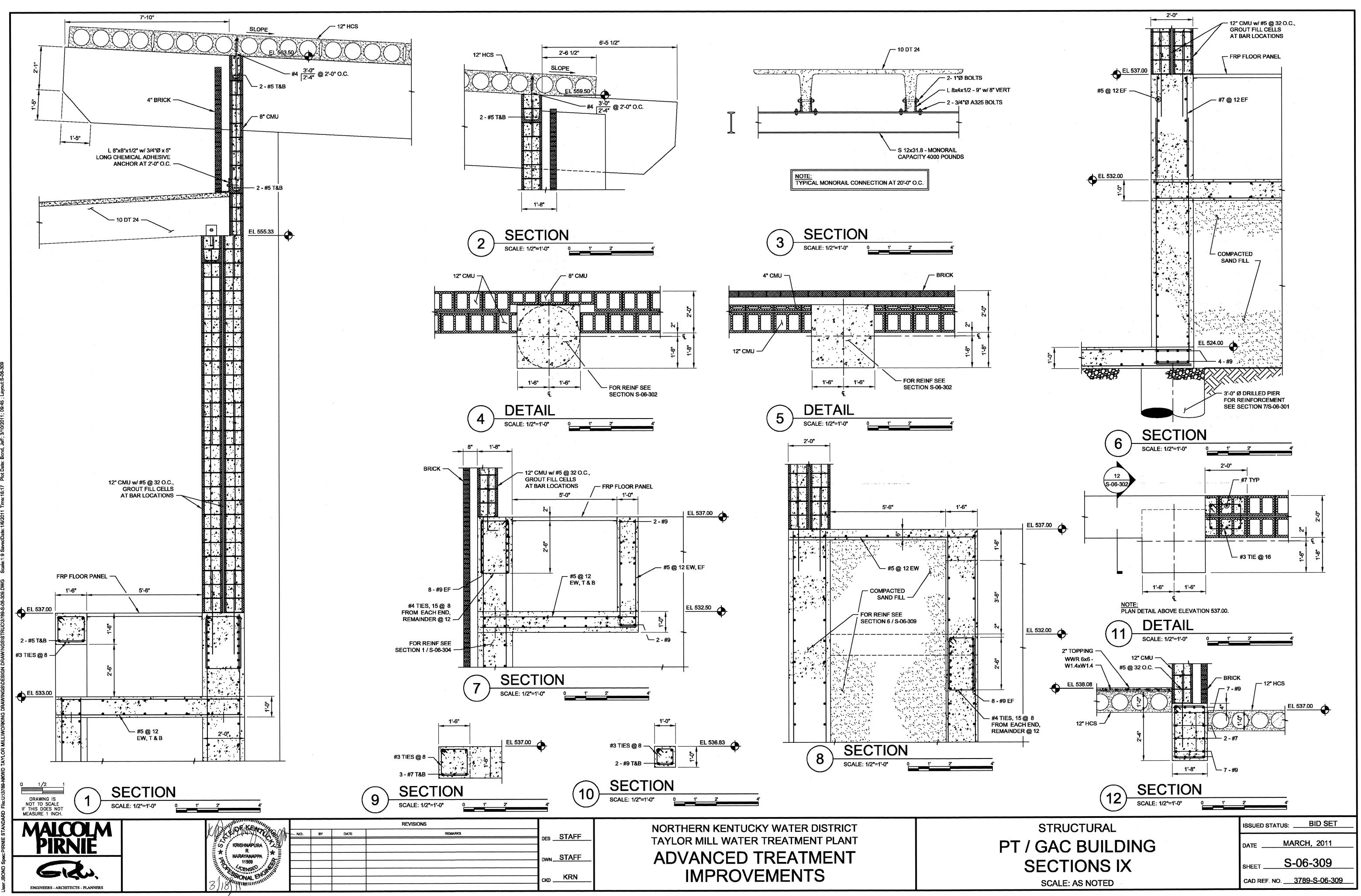
· · · · · · - <u>-</u> **A A** - FOR BEAM REINF SEE SECT 3 / S-06-303 A. . . . F MAINTENANCE 0 0 \dot{O} OAREA 00 00 2'-6" #3 @ 12 EW PLAN — #5 @ 12 EW, T&B 1 1.1 . •••• EQUALIZATION BASIN 53'-6" SLOPE — #5 @ 12 T&B 7 -**GRAVEL** · S-06-301 (10 (S-06-301) SECTION 1 SCALE: 1/2"=1'-0" <u>1' 2'</u> NORTHERN KENTUCKY WATER DISTRICT DES STAFF TAYLOR MILL WATER TREATMENT PLANT ADVANCED TREATMENT DWN STAFF

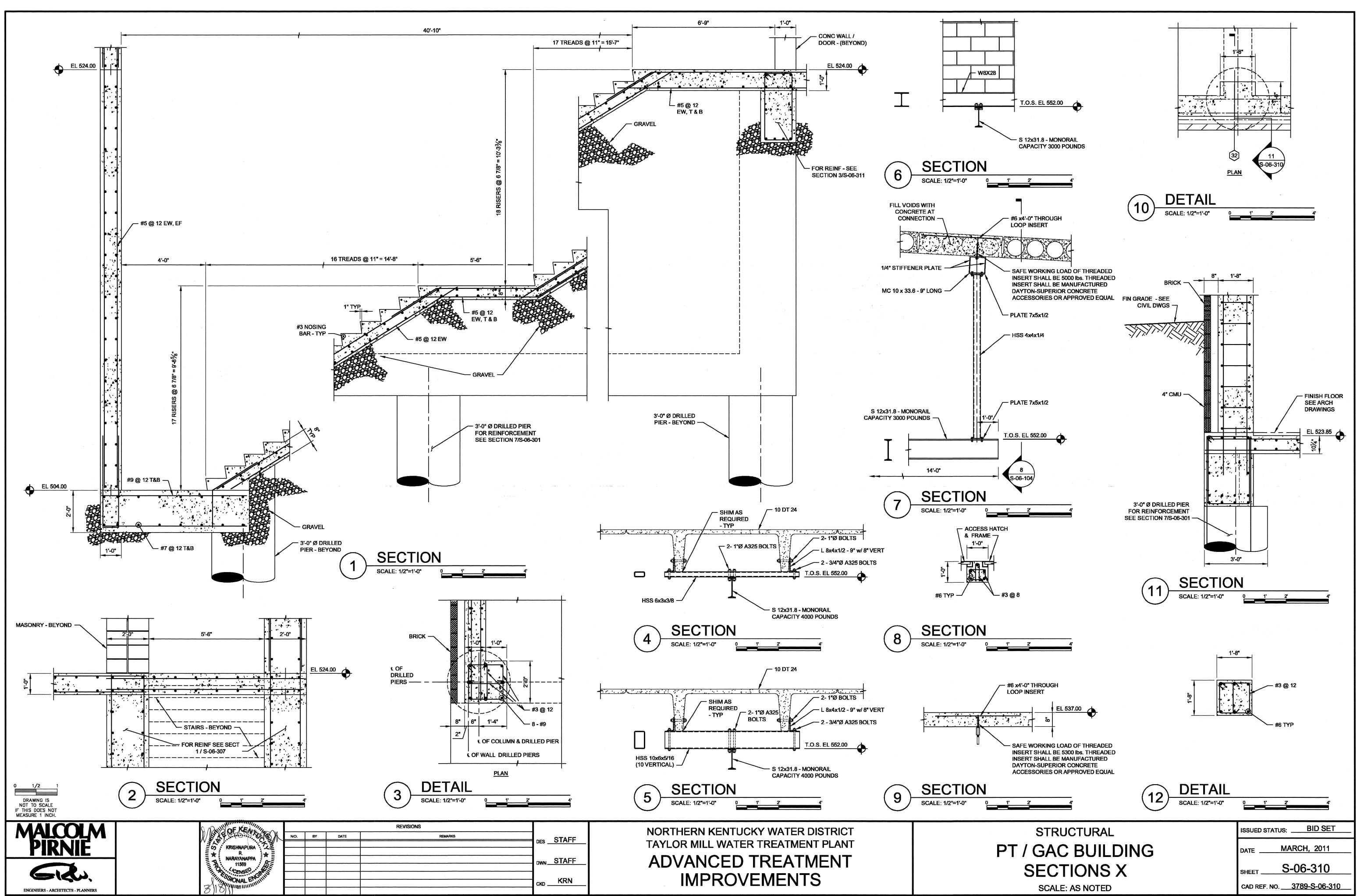
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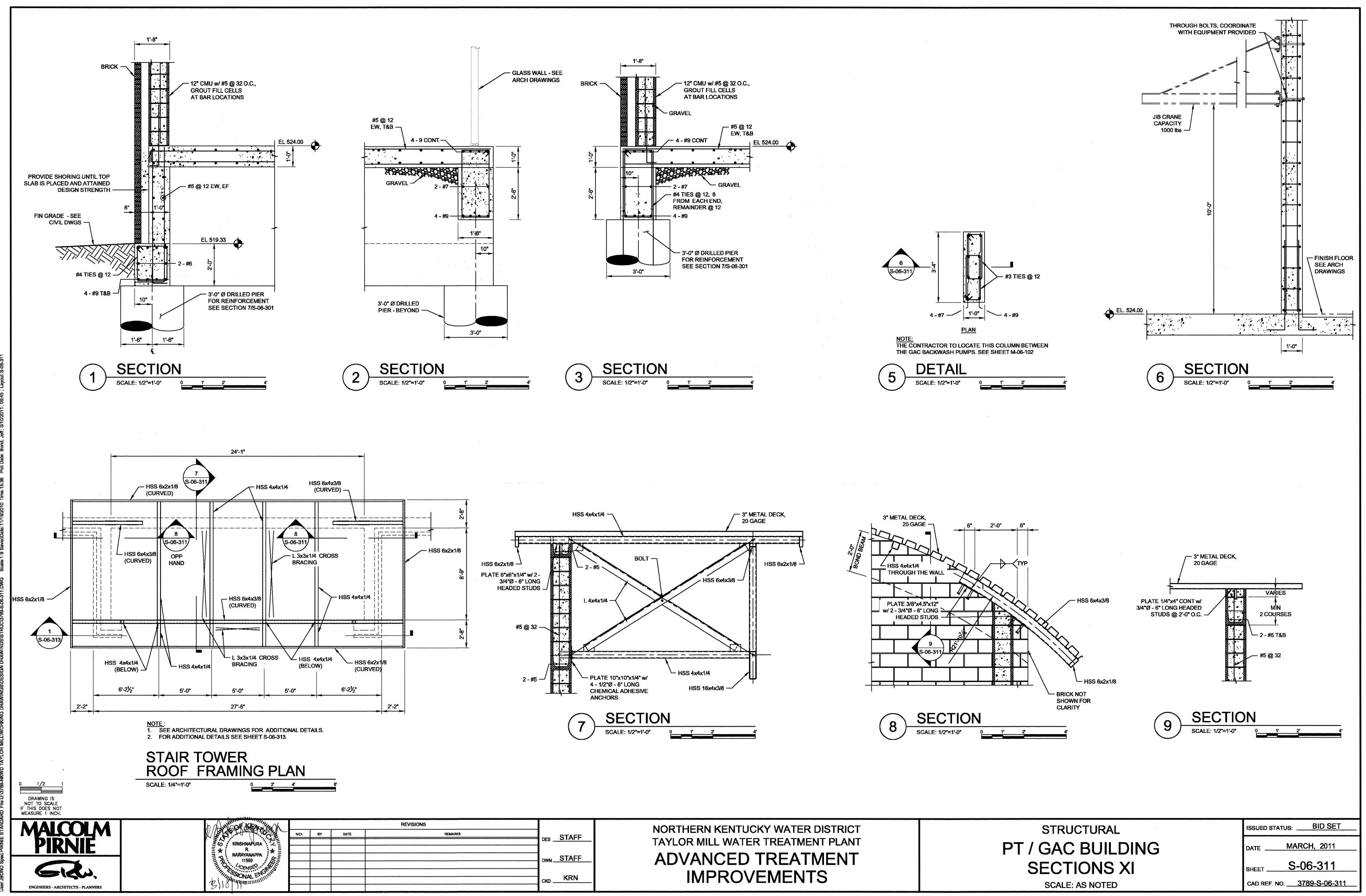
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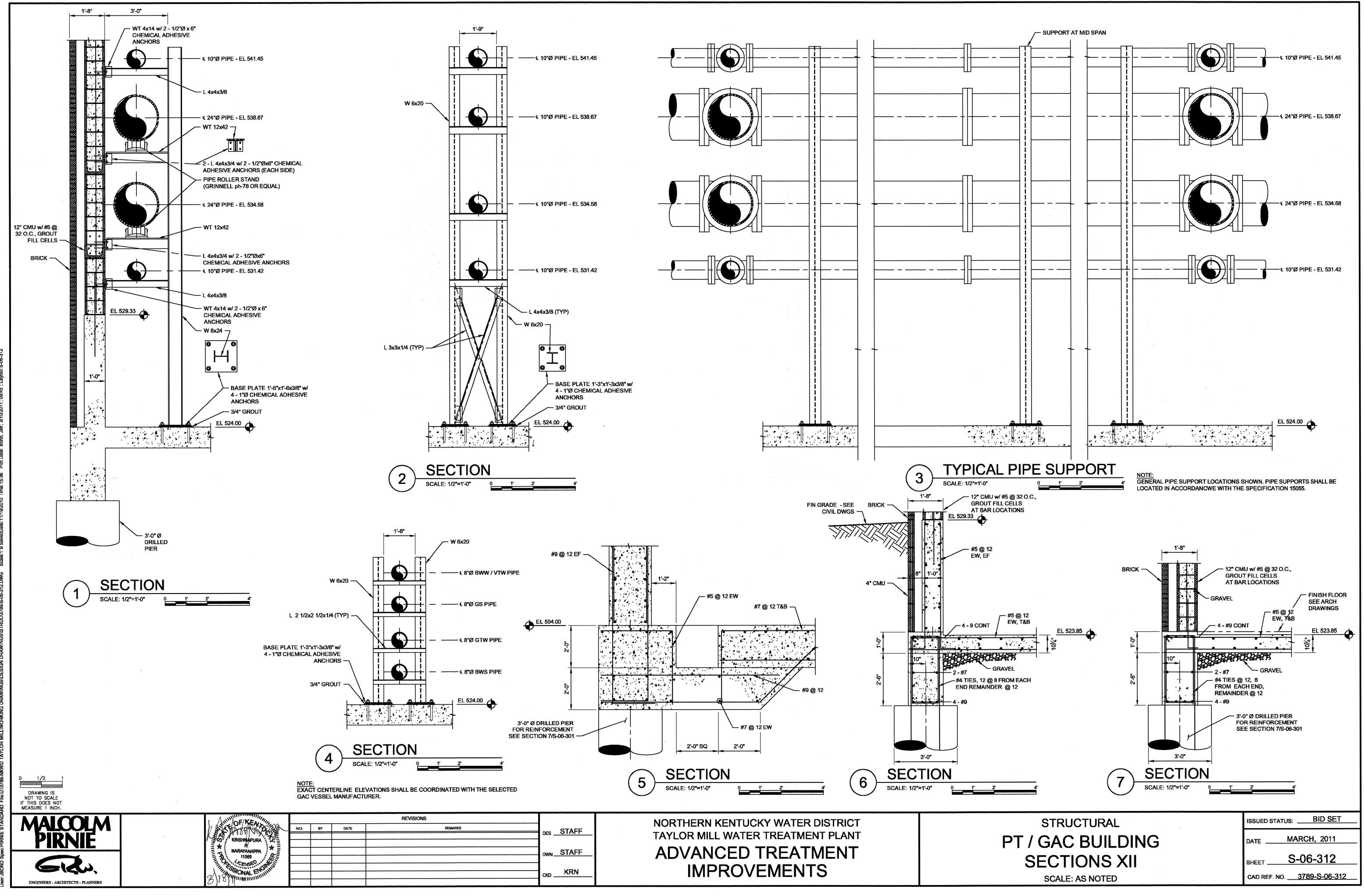
DEHUMIDIFIER AREA

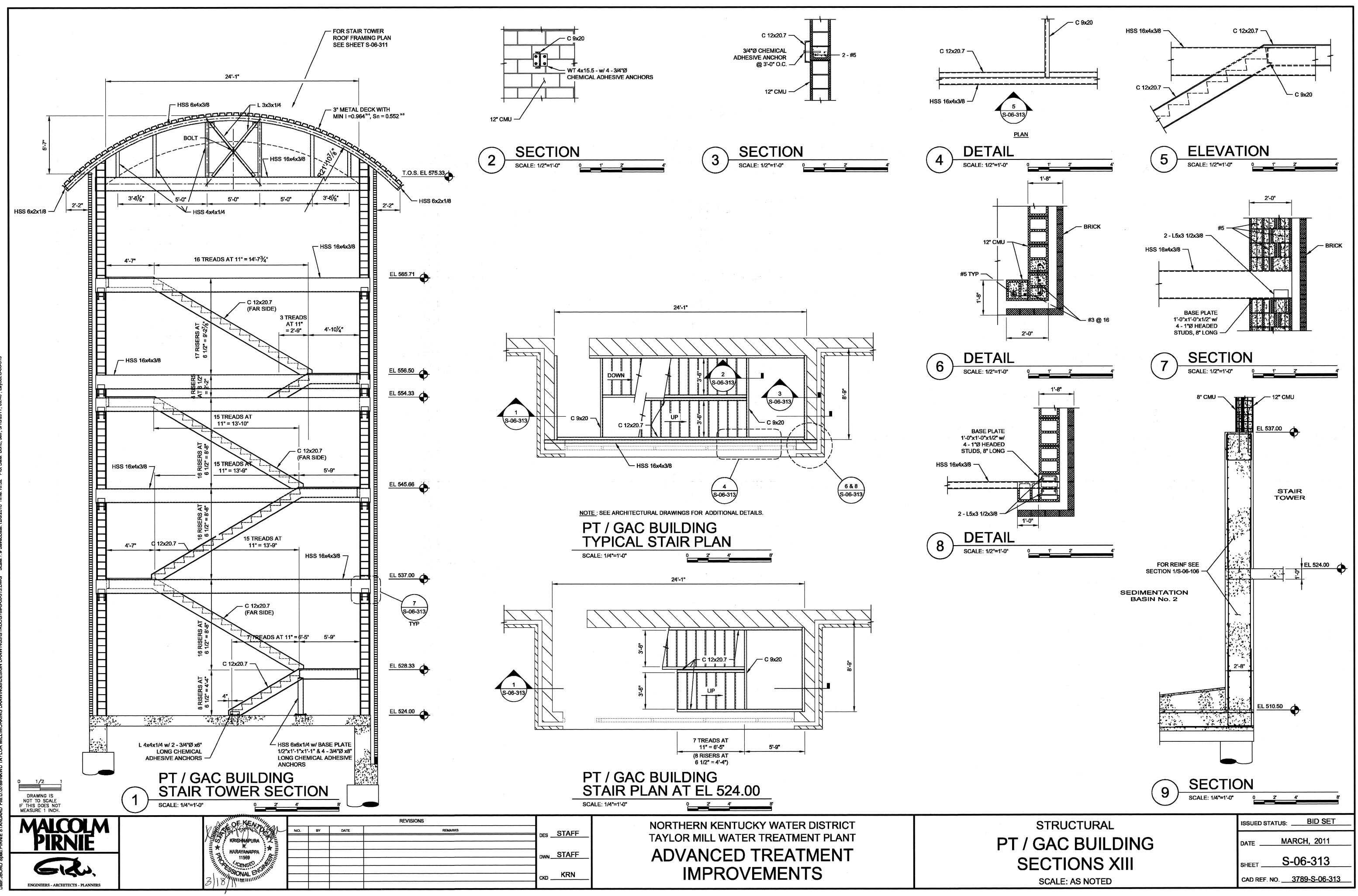


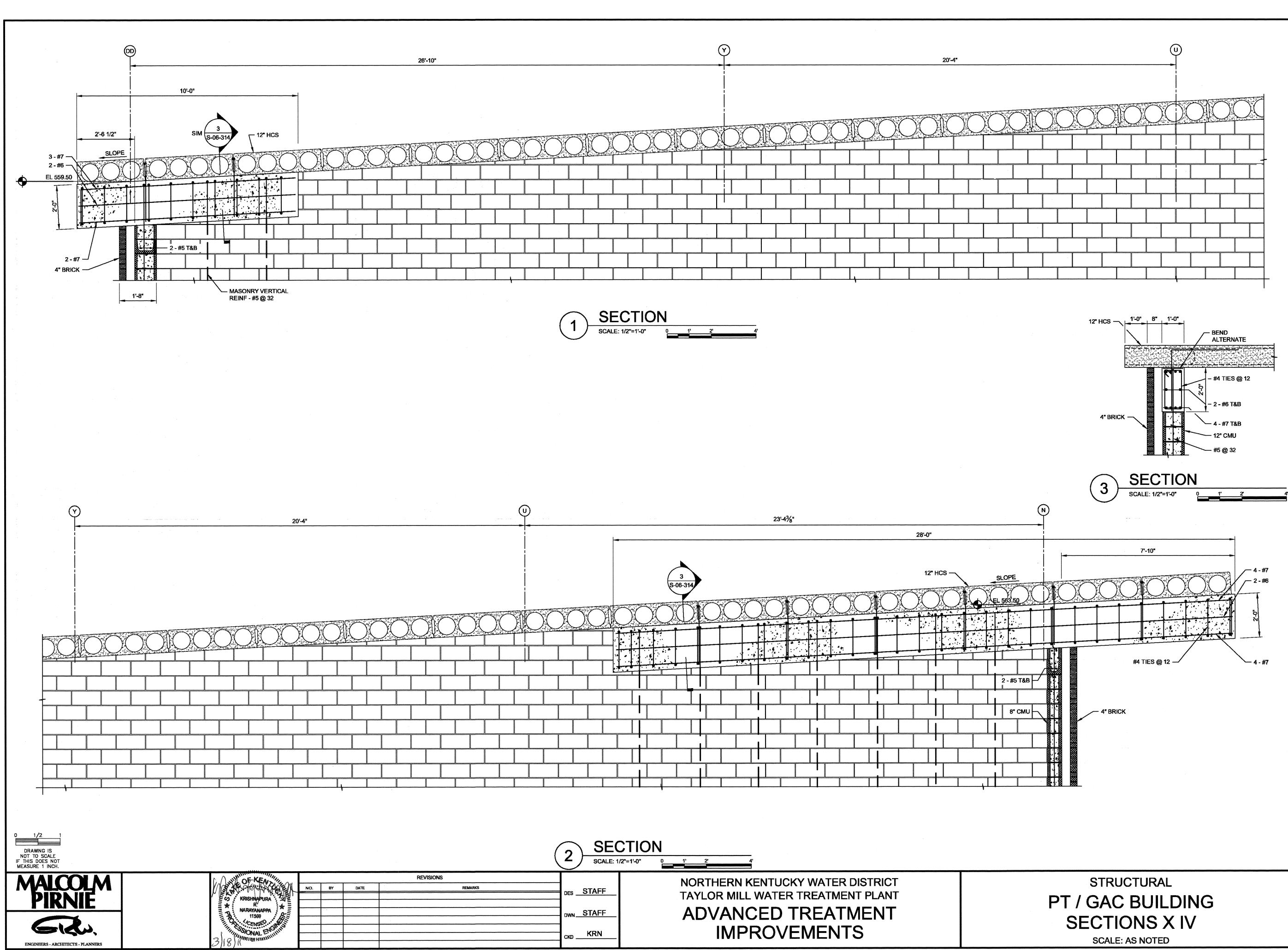




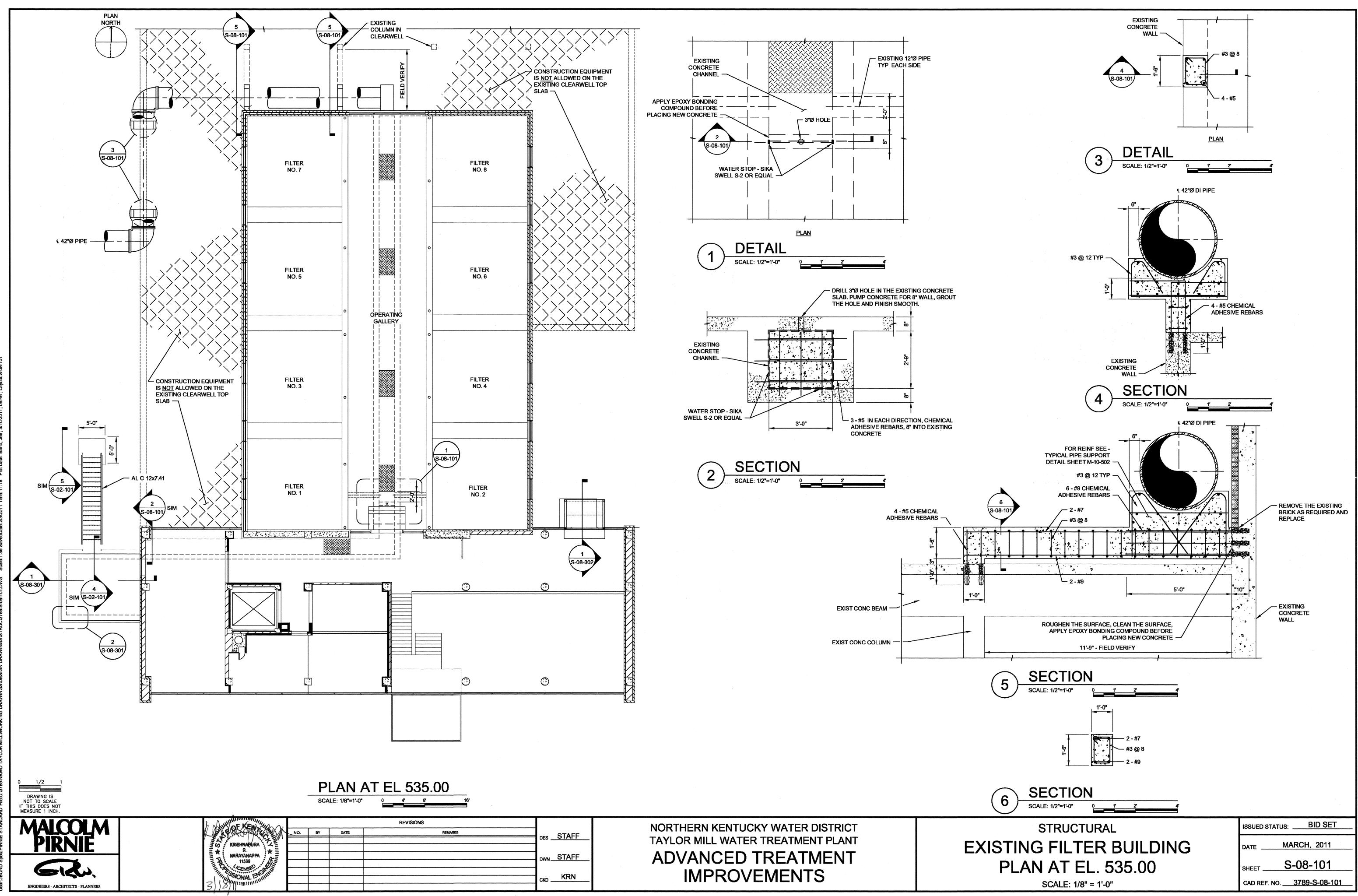




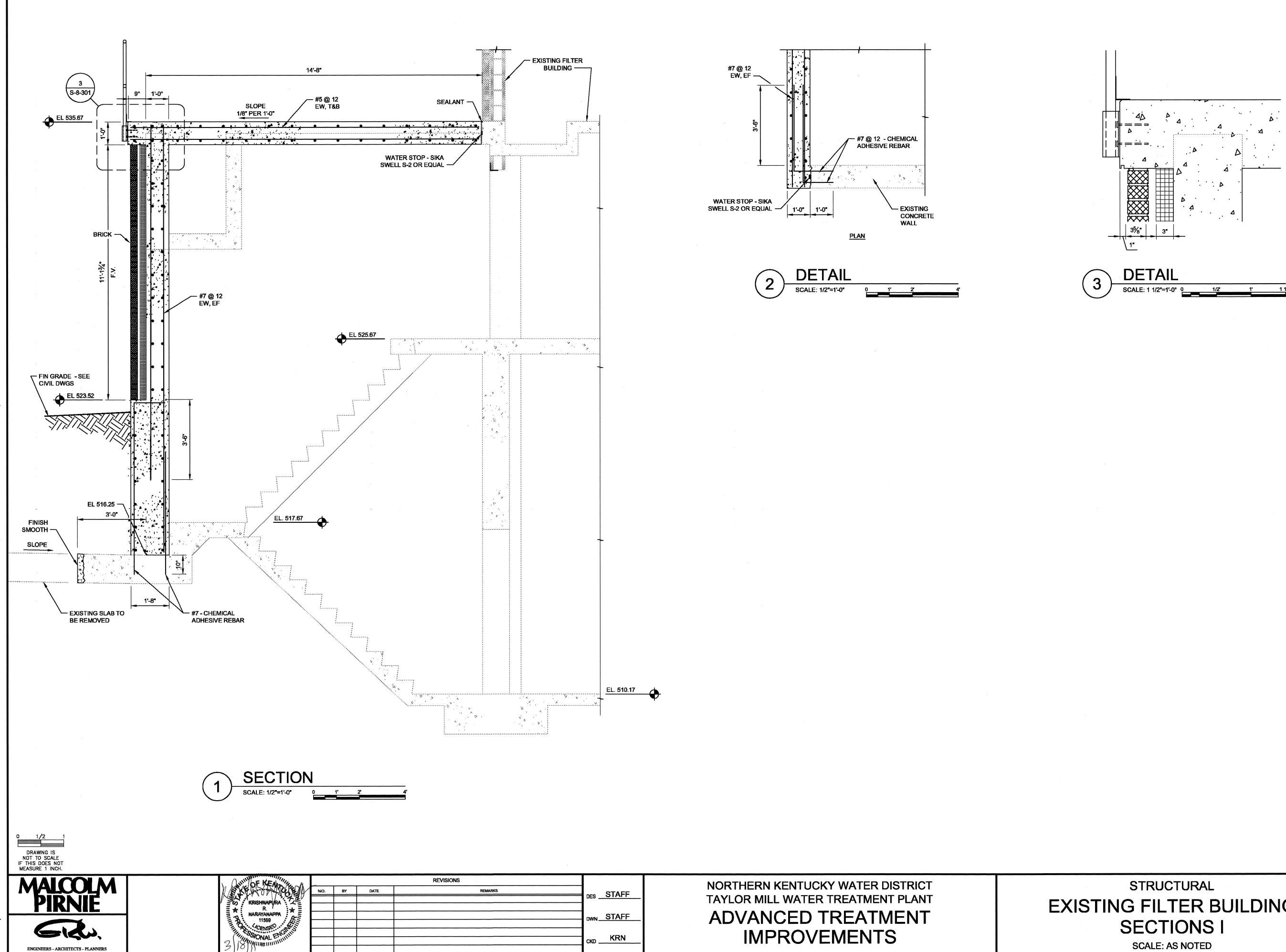




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SCALE: AS NOTED	CAD REF. NO. <u>3789-S-06-314</u>

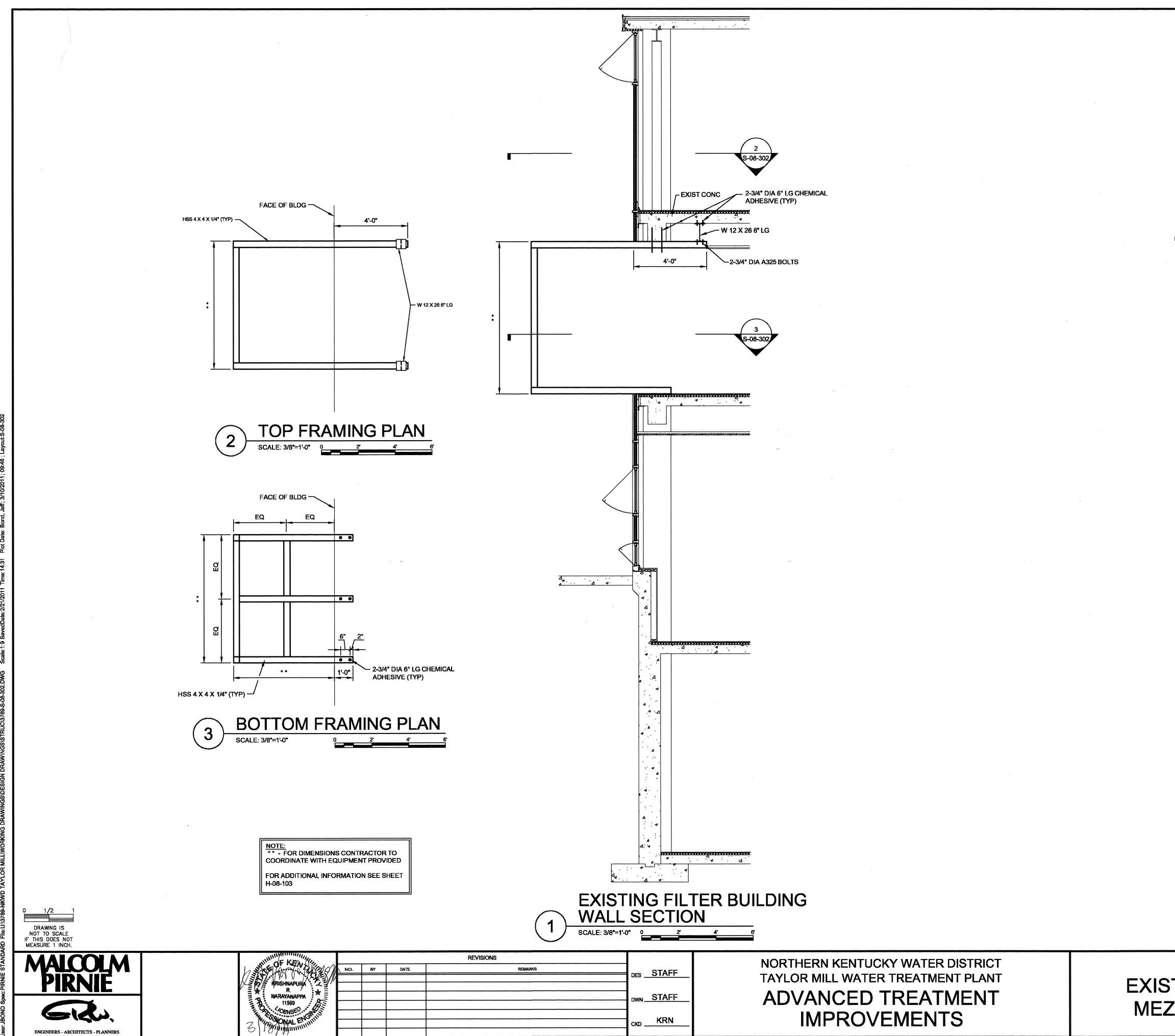


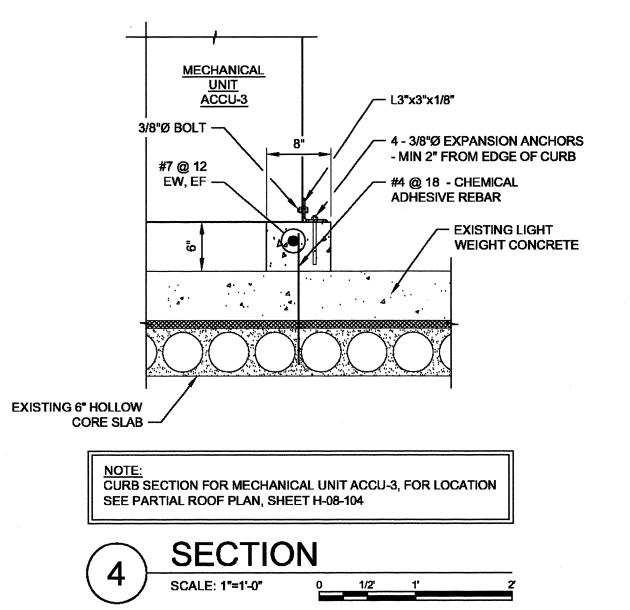
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STRUCTURAL
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SECTIONS I
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CAD REF. NO	3789-S-08-301



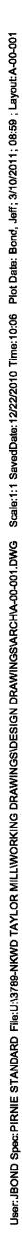


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DATE .	MARCH, 2011
SHEET	S-08-302
CAD R	EF. NO. 3789-S-08-302

GENERAL ARCHITECTURAL NOTES:

1. SEE FLOOR PLANS FOR CONTROL / EXPANSION JOINT LOCATIONS IN MASONRY WALLS.



DRAWING IS NOT TO SCALE IF THIS DOES NOT MEASURE 1 INCH.

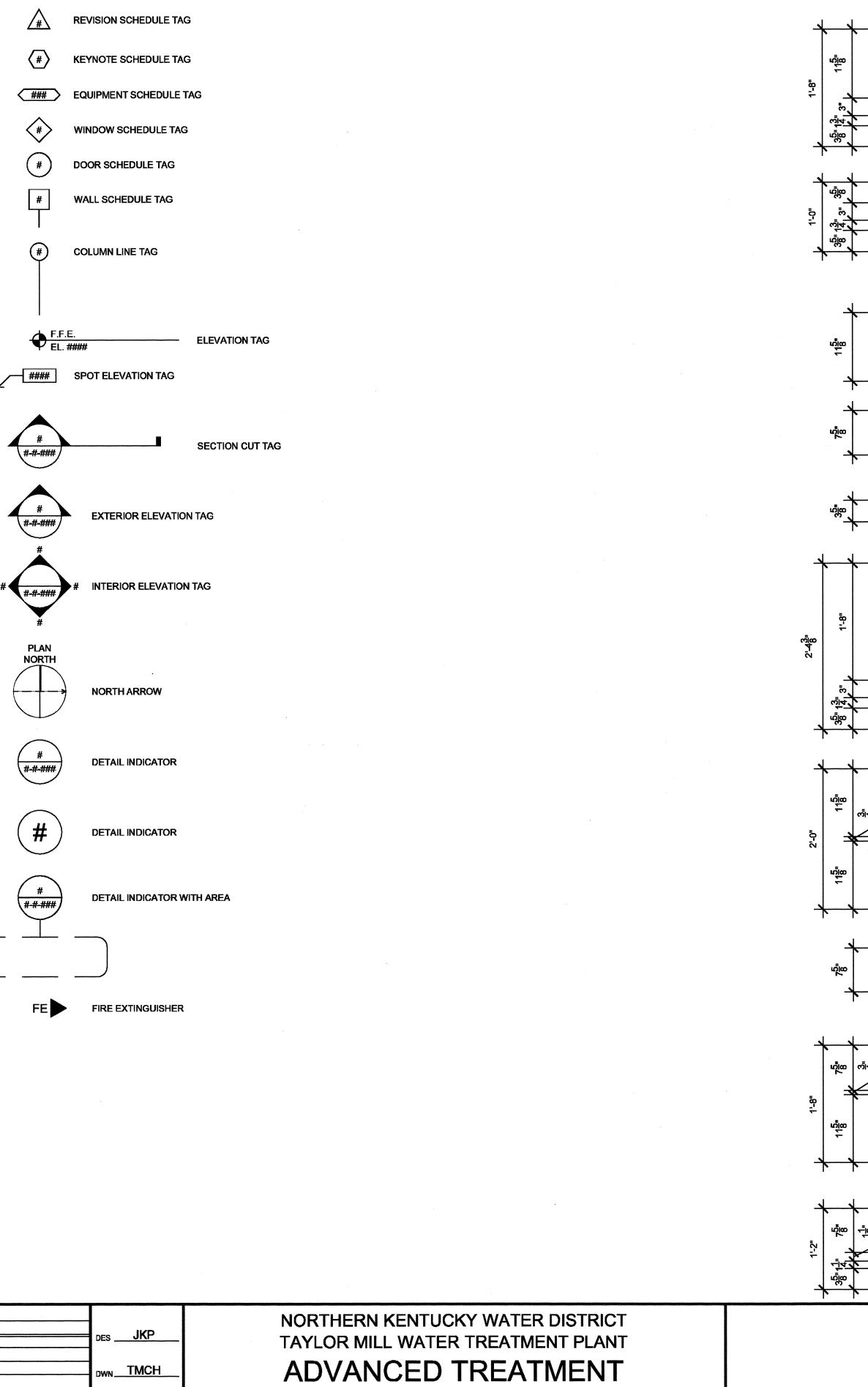
MALCOLM PIRNIE

Gidu.

ENGINEERS - ARCHITECTS - PLANNERS

ARCHITECTURAL SYMBOL KEY:

ARCHITEC



IMPROVEMENTS

CKD SL / JKP

REVISIONS

REMARKS

K. PIP

NO. 4447

COMMONWEALTH

NO. BY DATE

TURAL WALL TYPES SCHEDULE:	-
DRAWINGS FOR REI	ACE CMU - SEE STRUCTURAL INFORCEMENT FLUID APPLIED APPLY TO EXTERIOR FACE OF STALLATION OF RIGID
DRAWINGS FOR REL CONTINUOUS COLD WATERPROOFING -	CE CMU - SEE STRUCTURAL INFORCEMENT FLUID APPLIED APPLY TO EXT. FACE OF 4" CMU ION OF RIGID INSULATION
WALL TY DIALON GROUNDER DIALON GROUNDER REINFORCEMENT WALL TY	ACE CMU - SEE DRAWINGS FOR
REINFORCEMENT	CE CMU - SEE DRAWINGS FOR
CONCRETE - SEE S REINFORCEMENT CONTINUOUS COLD WATERPROOFING -	TRUCTURAL DRAWINGS FOR FLUID APPLIED APPLY TO EXTERIOR FACE OF RE INSTALLATION OF RIGID
4* NOM. BRICK WALL TY	ACE CMU - SEE STRUCTURAL
⁵ I√ ³ " AIR SPACE ¹ 2" NOM. GROUNDF DRAWINGS FOR RE	ACE CMU - SEE STRUCTURAL INFORCEMENT
WALL TY B" NOM. STRUCTUR	AL GLAZED TILE
DRAWINGS FOR RE	ACE CMU - SEE STRUCTURAL INFORCEMENT ACE CMU - SEE STRUCTURAL
B" NOM. GROUNDFA B" NOM. GROUNDFA DRAWINGS FOR RE 1 ¹ / ₂ " Rigid INSULATION 1 ¹ / ₄ " AIRSPACE 4" NOM. BRICK	ACE CMU - SEE STRUCTURAL
ARCHITECTURAL GENERAL NOTES SCALE: NOT TO SCALE	ISSUED STATUS: <u>BID SET</u> DATE <u>MARCH, 2011</u> SHEET <u>A-00-001</u> CAD REF. NO. <u>A-00-001</u>

BUILDING CODE RE	
2006 INTERNATIONAL BUILDING CODE (IBC) 2007 KENTUCKY BUILDING CODE (KBC) AMENDMEN	ITS REVISED OCT. 2009.
NEW PRELIMINARY TREAT	TMENT / GRANULAR ACTIVATED CARBON BUILDING
USE GROUP - CHAPTER 3:	
USE GROUP DESIGNATION DESCRIPTION	F-2 FACTORY INDUSTRIAL, LOW HAZARD, PROCESSING BEVERAGES
BUILDING HEIGHT / AREA - CHAPTER 5:	
(TYPE II B CONSTRUCTION)	
	3 STORIES
ACTUAL HEIGHT ALLOWABLE AREA	1 STORY 23,000 SF
ACTUAL AREA	21,743 SF
TYPE OF CONSTRUCTION - CHAPTER 6:	
(602.2) II B NON-COMBUSTIBLE MATERIALS	
TABLE 601 - NO ELEMENTS FOR TYPE II B CONSTRU	JCTION HAVE FIRE-RESISTANCE RATING REQUIREMENTS.
FIRE RESISTANT CONSTRUCTION - CHAPTER 7:	
FIRE STAIR SEPARATION	1 HR RATED
INTERIOR FINISHES - CHAPTER 8:	
CORRIDORS, ROOMS, AND ENCLOSED SPACES	CLASS C
FIRE PROTECTION SYSTEMS - CHAPTER 9:	
NOREQUIREMENTS	
MEANS OF EGRESS - CHAPTER 10:	
OCCUPANCY LOAD:	24 742 85
ACTUAL AREA BASIN AREA	21,743 SF - 6770 SF
VESSELS	- 1582 SF
HABITABLE AREA	13,391 SF
HABITABLE AREA / 100 SF PER PERSON (INDUSTRIA	ALAREAS) = 134 PERSONS OCCUPANT LOAD
EXITS REQUIRED	
TABLE 1016.1 MAXIMUM EXIT TRAVEL DISTANCE ACTUAL LONGEST TRAVEL DISTANCE	300 FT 160 FT
AVIVAL LUNGLOT TIMYEL DIGTANUE	

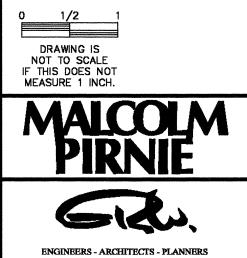
USE GROUP DESIGNATION	
DESCRIPTION	FACTORY INDUSTRIAL, LOW HAZARD, PROCESSING BEVERAGES
BUILDING HEIGHT / AREA - CHAPTER 5:	
(TYPE II B CONSTRUCTION)	
ALLOWABLE HEIGHT	3 STORIES
ACTUAL HEIGHT	1 STORY
ALLOWABLE AREA	23,000 SF
ACTUAL AREA	2,588 SF
TYPE OF CONSTRUCTION - CHAPTER 6:	
(602.2) II B NON-COMBUSTIBLE MATERIALS	
TABLE 601 - NO ELEMENTS FOR TYPE II B CONSTRUCTION	ON HAVE FIRE-RESISTANCE RATING REQUIREMENTS.
FIRE RESISTANT CONSTRUCTION - CHAPTER 7:	
NO REQUIREMENTS	
INTERIOR FINISHES - CHAPTER 8:	
CORRIDORS, ROOMS, AND ENCLOSED SPACES	CLASS C
FIRE PROTECTION SYSTEMS - CHAPTER 9:	
FIRE PROTECTION SYSTEMS - CHAPTER 9: NO REQUIREMENTS	
NOREQUIREMENTS	
NO REQUIREMENTS MEANS OF EGRESS - CHAPTER 10:	
NO REQUIREMENTS MEANS OF EGRESS - CHAPTER 10: OCCUPANCY LOAD:	
NO REQUIREMENTS MEANS OF EGRESS - CHAPTER 10:	2,588 SF
NO REQUIREMENTS MEANS OF EGRESS - CHAPTER 10: OCCUPANCY LOAD: HABITABLE AREA	
NO REQUIREMENTS <u>MEANS OF EGRESS - CHAPTER 10:</u> OCCUPANCY LOAD: HABITABLE AREA HABITABLE AREA / 100 SF PER PERSON (INDUSTRIAL AF	REAS) = 26 PERSONS OCCUPANT LOAD
NO REQUIREMENTS <u>MEANS OF EGRESS - CHAPTER 10:</u> OCCUPANCY LOAD: HABITABLE AREA HABITABLE AREA / 100 SF PER PERSON (INDUSTRIAL AF (1015) EXITS REQUIRED	REAS) = 26 PERSONS OCCUPANT LOAD 2
NO REQUIREMENTS <u>MEANS OF EGRESS - CHAPTER 10:</u> OCCUPANCY LOAD: HABITABLE AREA HABITABLE AREA / 100 SF PER PERSON (INDUSTRIAL AF	REAS) = 26 PERSONS OCCUPANT LOAD

LEGEND:

- 1HR - 1HR - 1 - HOUR RATED CONSTRUCTION

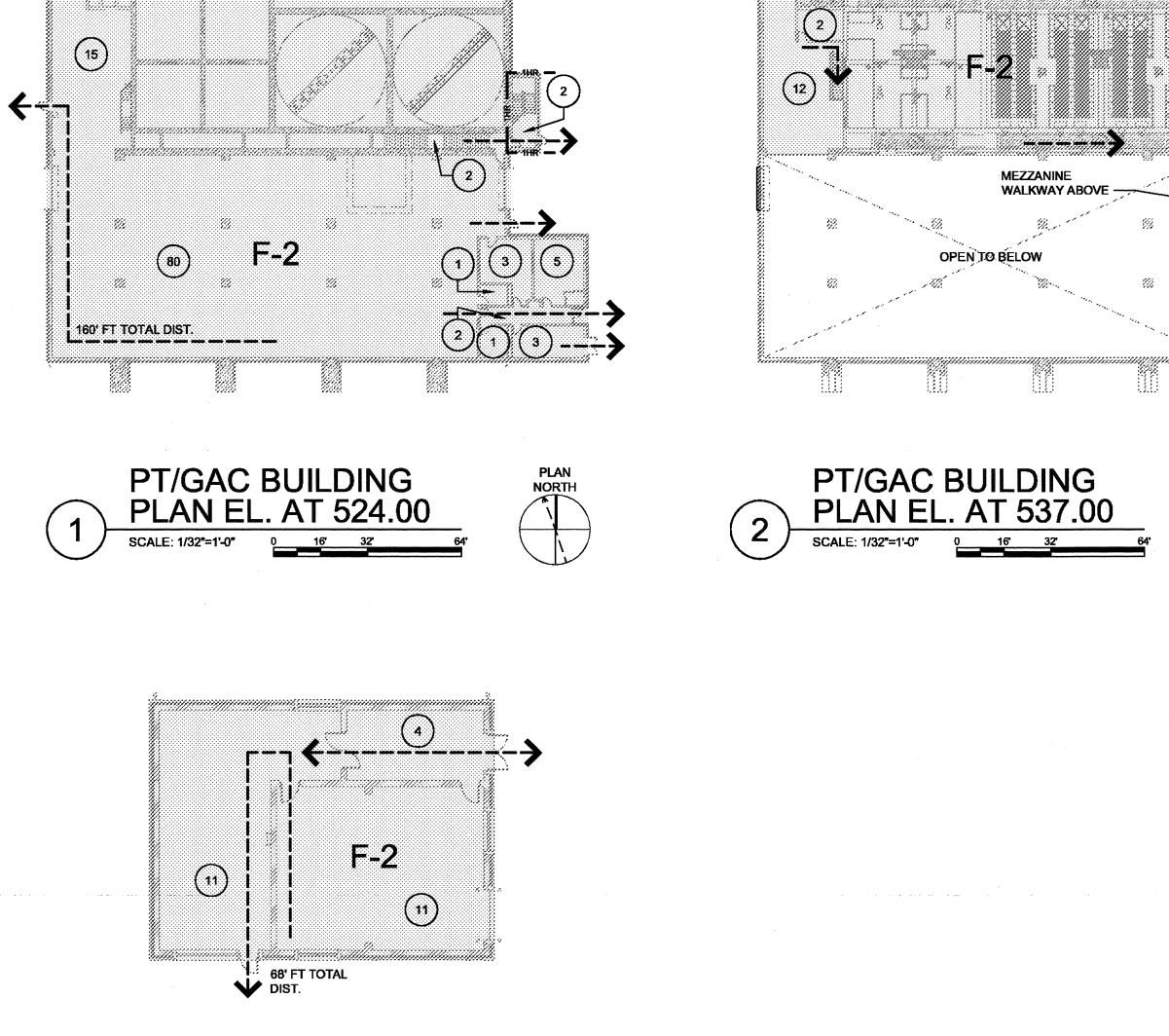
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---- MAJOR EXIST EGRESS OCCUPANT LOAD



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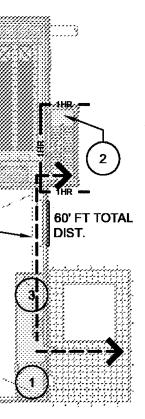
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PLAN NORTH

2	GAC FEED PUN PLAN EL. AT 52			ATIO	N
رد	SCALE: 1/16"=1'-0"	0	8'	16'	32'

es JKP	NORTHERN KENTUCKY WATER DISTRICT TAYLOR MILL WATER TREATMENT PLANT
	ADVANCED TREATMENT
κο _SL/JKP	IMPROVEMENTS



PLAN NORTH

ARCHITECTURAL CODE AND LIFE SAFTEY **INFORMATION I** SCALE: NOT TO SCALE

BID SET
RCH, 2011
-00-002
A-00-002

BUILDING CODE REVIEW

2006 INTERNATIONAL BUILDING CODE (IBC) 2007 KENTUCKY BUILDING CODE (KBC) AMENDMENTS REVISED OCT. 2009.

EXISTING CHEMICAL BUILDING

EXISTING BUILDING - NEW DEMOLITION PATCHING AT WALLS, MECHANICAL AND ELECTRICAL WORK ONLY. DEMOLITION WORK WILL DECREASE MAXIMUM EXIT TRAVEL DISTANCE.

1997 KENTUCKY BUILDING CODE (KBC) - FROM ORIGINAL CONSTRUCTION DOCUMENTS.

USE GROUP - CHAPTER 3: USE GROUP DESIGNATION DESCRIPTION	H-4 HIGH HAZARD, BUILDINGS THAT CONTAIN HEALTH HAZARDS
BUILDING HEIGHT / AREA - CHAPTER 5:	
(TYPE II B CONSTRUCTION)	
ALLOWABLE HEIGHT	3 STORIES
ACTUAL HEIGHT	18'-0" STORY
ALLOWABLE AREA	17,500 SF
ACTUAL AREA	5,800 SF
TYPE OF CONSTRUCTION - CHAPTER 6: II B NON-COMBUSTIBLE PROTECTED TABLE 601 - NO ELEMENTS FOR TYPE II B CONSTRUCTION	HAVE FIRE-RESISTANCE RATING REQUIREMENTS.
FIRE PROTECTION SYSTEMS - CHAPTER 9:	
FULLY SUPPRESSED SYSTEM	
MEANS OF EGRESS CHAPTER 10:	
OCCUPANCY LOAD:	3 MAX
TABLE 1016.1 MAXIMUM EXIT TRAVEL DISTANCE	175 FT
ACTUAL LONGEST TRAVEL DISTANCE	122 FT

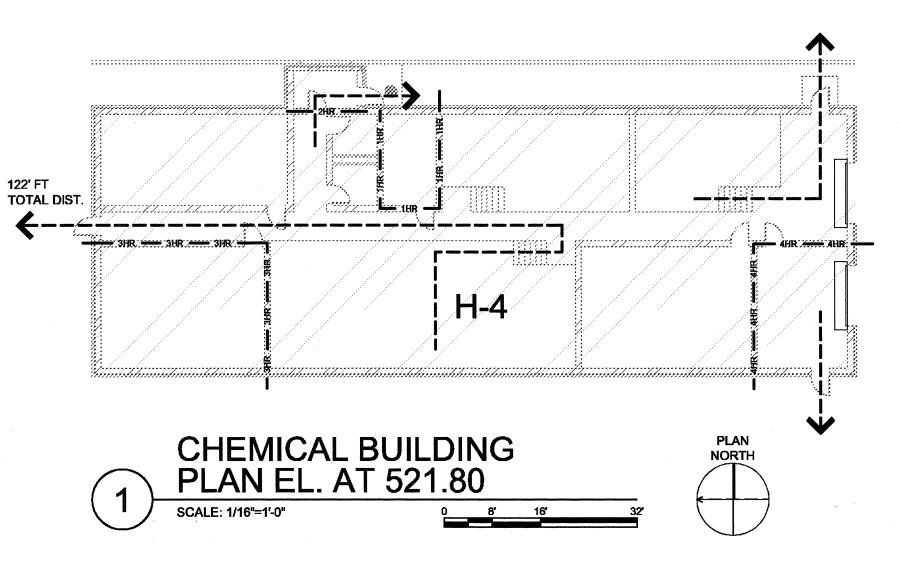
ACCESSIBILITY - CHAPTER 11: EQUIPMENT AREAS ARE NOT REQUIRED TO BE ACCESSIBLE PER 1103.2.

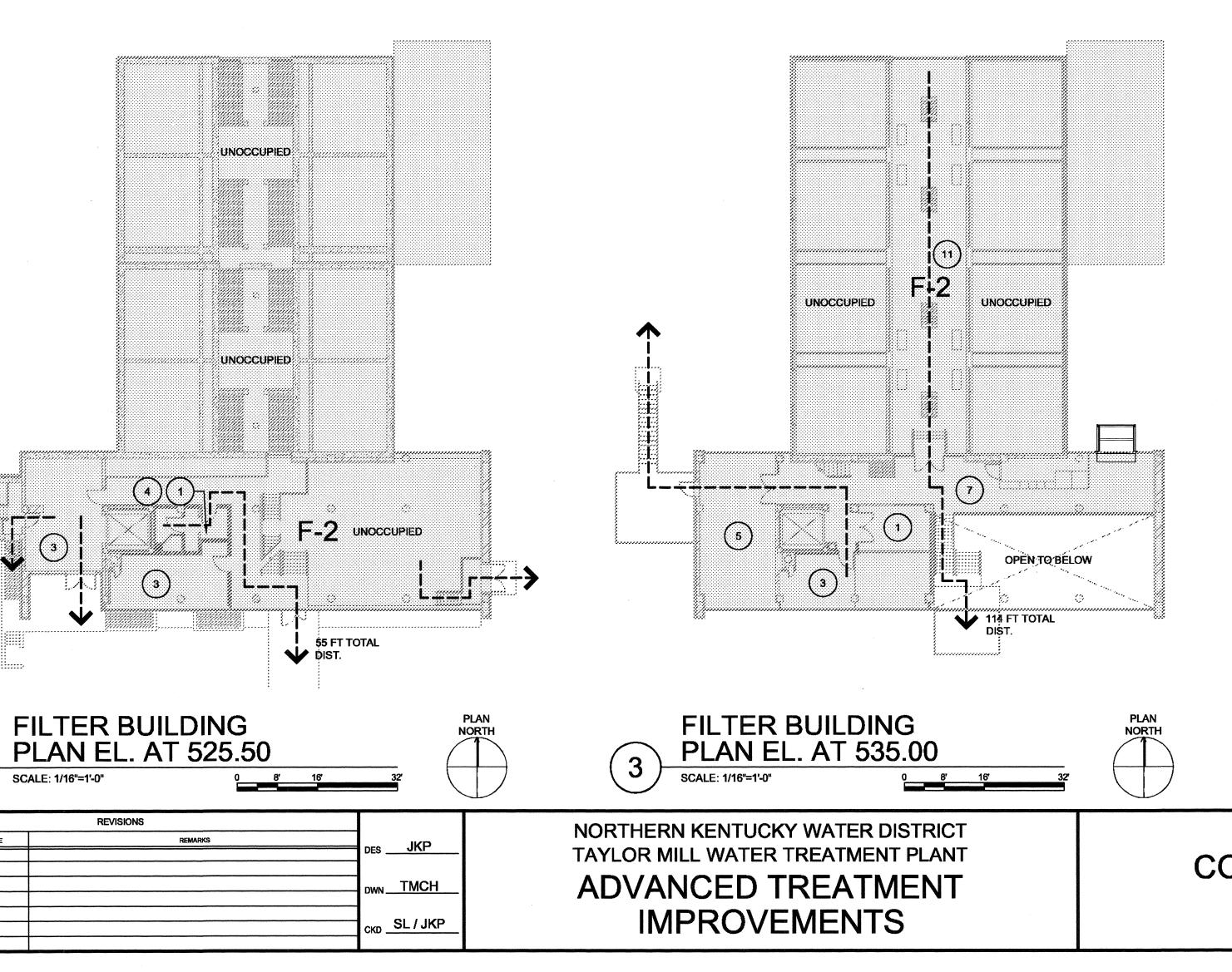
EXISTING FILTER BUILDING EXISTING BUILDING - NEW DEMOLITION PATCHING AT WALLS, MECHANICAL AND ELECTRICAL WORK ONLY. DEMOLITION WORK WILL DECREASE MAXIMUM EXIT TRAVEL DISTANCE. CONSTRUCTED APPROX 1953 - NO CODE INFORMATION AVAILABLE USE GROUP - CHAPTER 3: USE GROUP DESIGNATION F**-2** FACTORY INDUSTRIAL, LOW DESCRIPTION HAZARD, PROCESSING BEVERAGES BUILDING HEIGHT / AREA - CHAPTER 5: (TYPE II B CONSTRUCTION) ALLOWABLE HEIGHT **3 STORIES** ACTUAL HEIGHT **3 STORIES** ALLOWABLE AREA 23,000 SF ACTUAL AREA 24,472 SF **TYPE OF CONSTRUCTION - CHAPTER 6:** (602.2) II B NON-COMBUSTIBLE MATERIALS TABLÉ 601 - NO ELEMENTS FOR TYPE II B CONSTRUCTION HAVE FIRE-RESISTANCE RATING REQUIREMENTS. FIRE RESISTANT CONSTRUCTION - CHAPTER 7: FIRE WALL SEPARATION 3 HR RATED **INTERIOR FINISHES - CHAPTER 8:** CLASS C CORRIDORS, ROOMS, AND ENCLOSED SPACES FIRE PROTECTION SYSTEMS - CHAPTER 9: NO REQUIREMENTS MEANS OF EGRESS - CHAPTER 10: OCCUPANCY LOAD: 24,472 SF -16,657 SF 7,815 SF ACTUAL AREA PIPE GALLERIES HABITABLE AREA HABITABLE AREA / 100 SF PER PERSON (INDUSTRIAL AREAS) = 78 PERSONS OCCUPANT LOAD EXITS REQUIRED 300 FT TABLE 1016.1 MAXIMUM EXIT TRAVEL DISTANCE ACTUAL LONGEST TRAVEL DISTANCE 156 FT ACCESSIBILITY - CHAPTER 11: EQUIPMENT AREAS ARE NOT REQUIRED TO BE ACCESSIBLE PER 1103.2. \bigcirc (3 LEGEND: 17 - 1HR - 1HR - 1 - HOUR RATED CONSTRUCTION - 2HR - 2HR 2 - HOUR RATED CONSTRUCTION - 3HR - 3 - HOUR RATED CONSTRUCTION - 4HR - 4HR - 4 - HOUR RATED CONSTRUCTION ---- MAJOR EXIST EGRESS OCCUPANT LOAD (#) 0 1/2 2 DRAWING IS NOT TO SCALE IF THIS DOES NOT MEASURE 1 INCH. SCALE: 1/16"=1'-0" MALCOLM PIRNIE K. PIP NO. BY DATE NO. 4447 COMMONWEALTH Gia EL CA

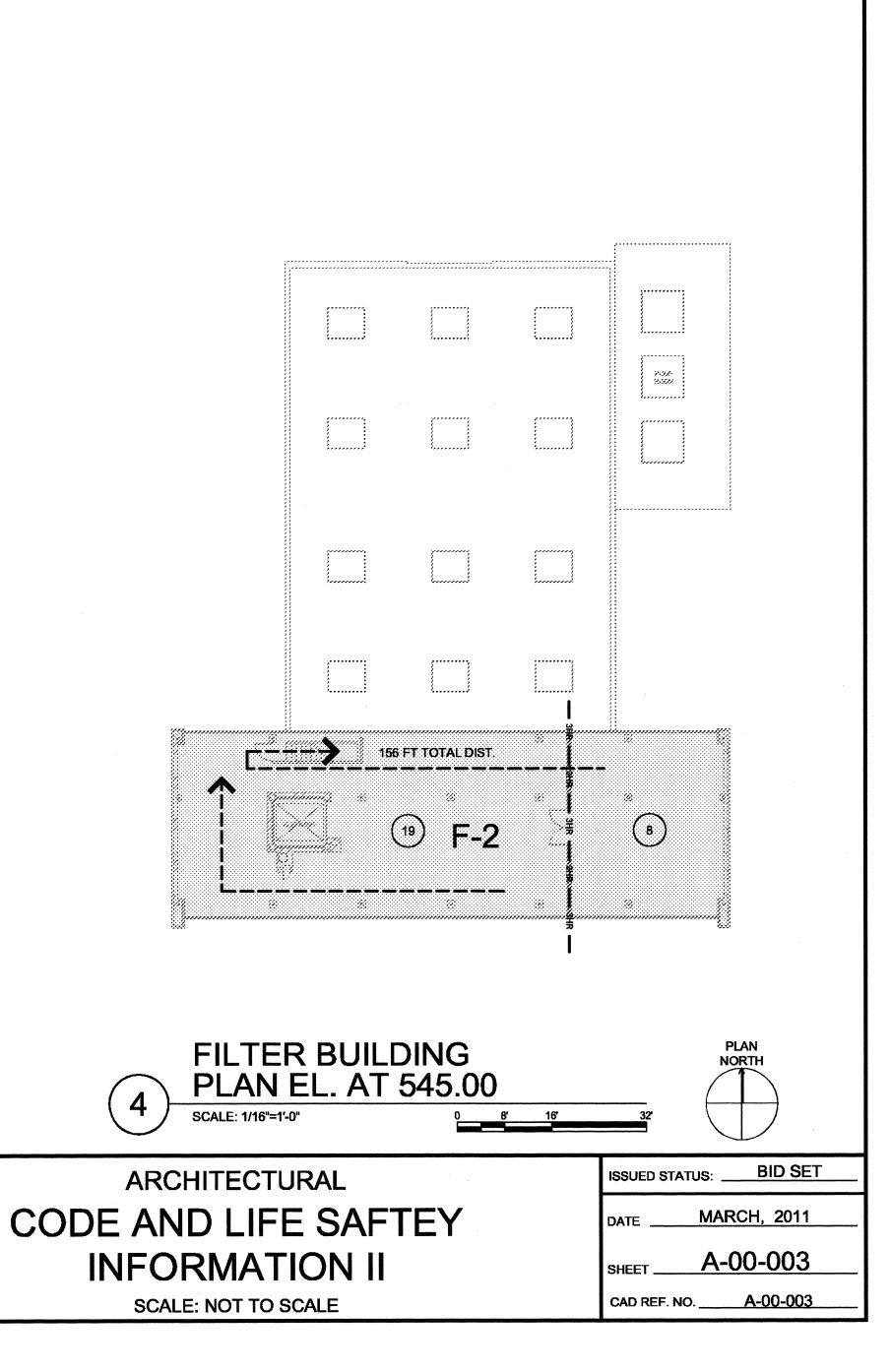
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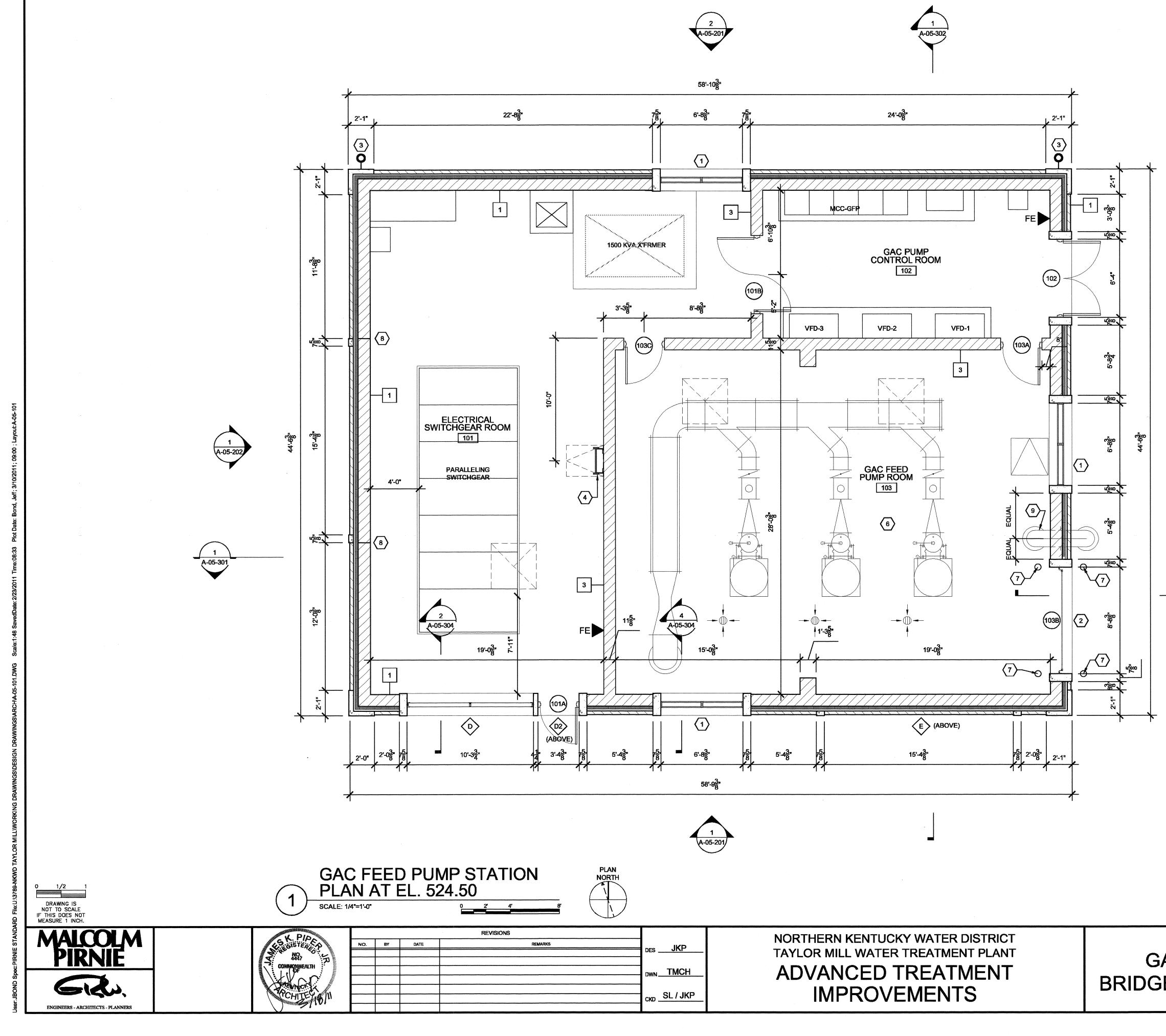
REVISIONS

NGINEERS - ARCHITECTS - PLANNER









GENERAL NOTES: 1. CEILINGS ARE TO BE PAINTED. SEE DIVISION 9

SPECIFICATION FOR TYPE.

SYMBOL KEY:

1. SEE ARCHITECTURAL GENERAL SHEET A-00-001 FOR TYPICAL SYMBOLS.

KEYNOTES:

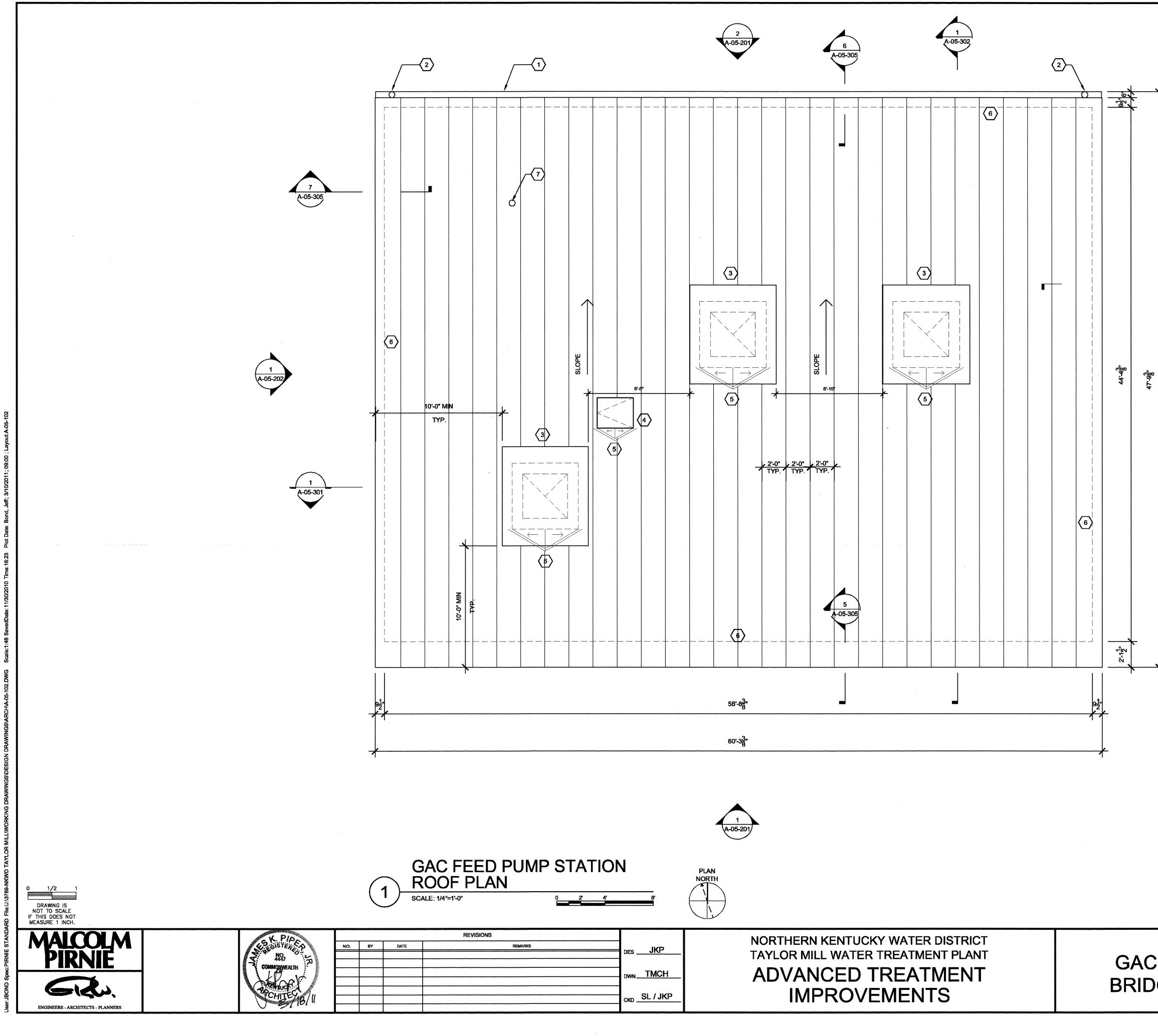
- 1. COMBINATION LOUVER/DAMPER W/ ACTUATOR SEE MECHANICAL DRAWINGS 'H' SHEETS. 2. OVERHEAD DOOR 8'-0"W CLEAR X 12'-0" CLEAR.
- COORDINATE ROUGH OPENING REQUIREMENTS WITH PRECAST MANUFACTURER. 3. 6" DIA. DOWNSPOUT W/ BOOTS - MOUNT W/
- STAINLESS STEEL STANDOFFS CENTER ON VERTICAL PRECAST.
- 4. ROOF ACCESS LADDER AND HATCH ABOVE SEE A-05 300 SHEETS FOR DETAILS. 5. NOT USED
- 6. DASHED LINE INDICATES BRIDGECRANE AND SUPPORT RAILS
- 7. 6" PIPE BOLLARD SEE 3/C-01-501 -ALIGN WITH EDGE OF OPENING 1-'0" FROM FACE OF WALL.
- 8. ELASTOMERIC EXPANSION JOINT IN CMU SEE ELEVATIONS FOR EXPANSION JOINTS IN BRICK VENEER
- 9. CENTER VENT PIPE AND PRECAST SURROUND BETWEEN JAMB OF PRECAST DOOR 1035 AND JAMB OF LOUVER LV-13B.

ARCHITECTURAL GAC FEED PUMP STATION BRIDGECRANE - PLAN AT EL. 524.50 SCALE: 1/4" = 1'-0"

2 A-05-202

3 A-05-304

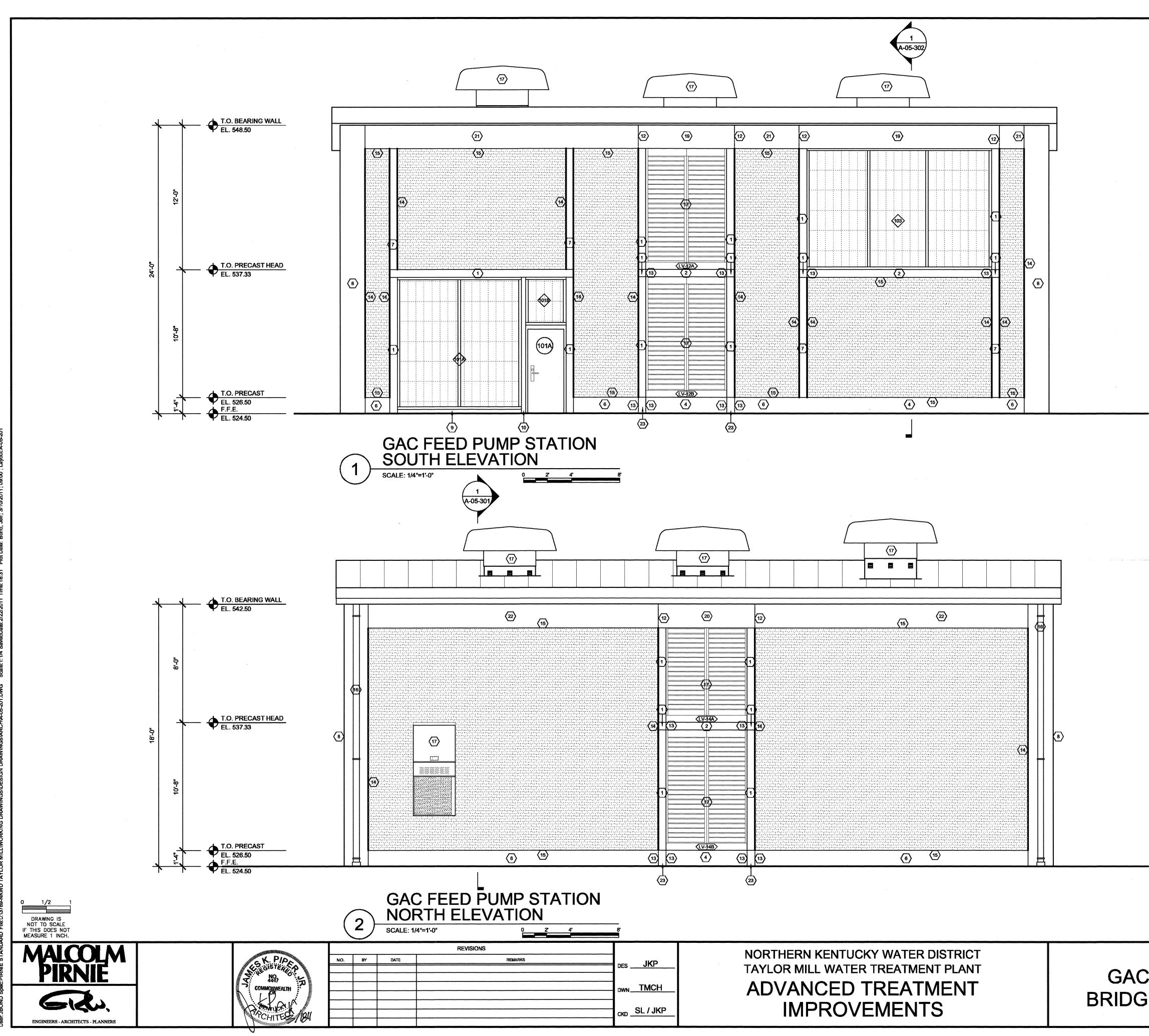
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DATE	MARCH, 2011
SHEET	A-05-101
CAD REF	NOA-05-101



	GENERAL NOTES:
	 PROVIDE ROOF CURBS FOR ALL ROOF MOUNTED EQUIPMENT. NO ROOFTOP EQUIPMENT MAY BE INSTALLED WITHIN 10'-0" FROM THE EDGE OF ROOF. PROVIDE STANDING SEAM METAL ROOF - SEE DIVISION 7 SPECIFICATION.
	SYMBOL KEY:
	1. SEE ARCHITECTURAL GENERAL SHEET A-00-001 FOR TYPICAL SYMBOLS.
	KEYNOTES:
7 A-05-305	 6" GUTTER 6" DOWNSPOUT (CENTERED ON PRECAST CORNER SEE SHEET C-02-312 FOR DOWNSPOUT BOOT CONNECTION. ROOF MNT. EXHAUST HOOD SEE 'H' SHEETS FOR DETAILS. ROOF HATCH 3'-0" x 2'-6" R.O. PREFORMED METAL CRICKETS DASHED LINE INDICATES EDGE OF BRICK VENEER BELOW. PLUMBING VENT. SEE PLUMBING. PROVIDE ROOF MANUFACTURER'S STD. PIPE BOOT AT VENT PENETRATIONS. SEE SPECIFICATIONS FOR ADDITIONAL INFO.
2 A-05-202	

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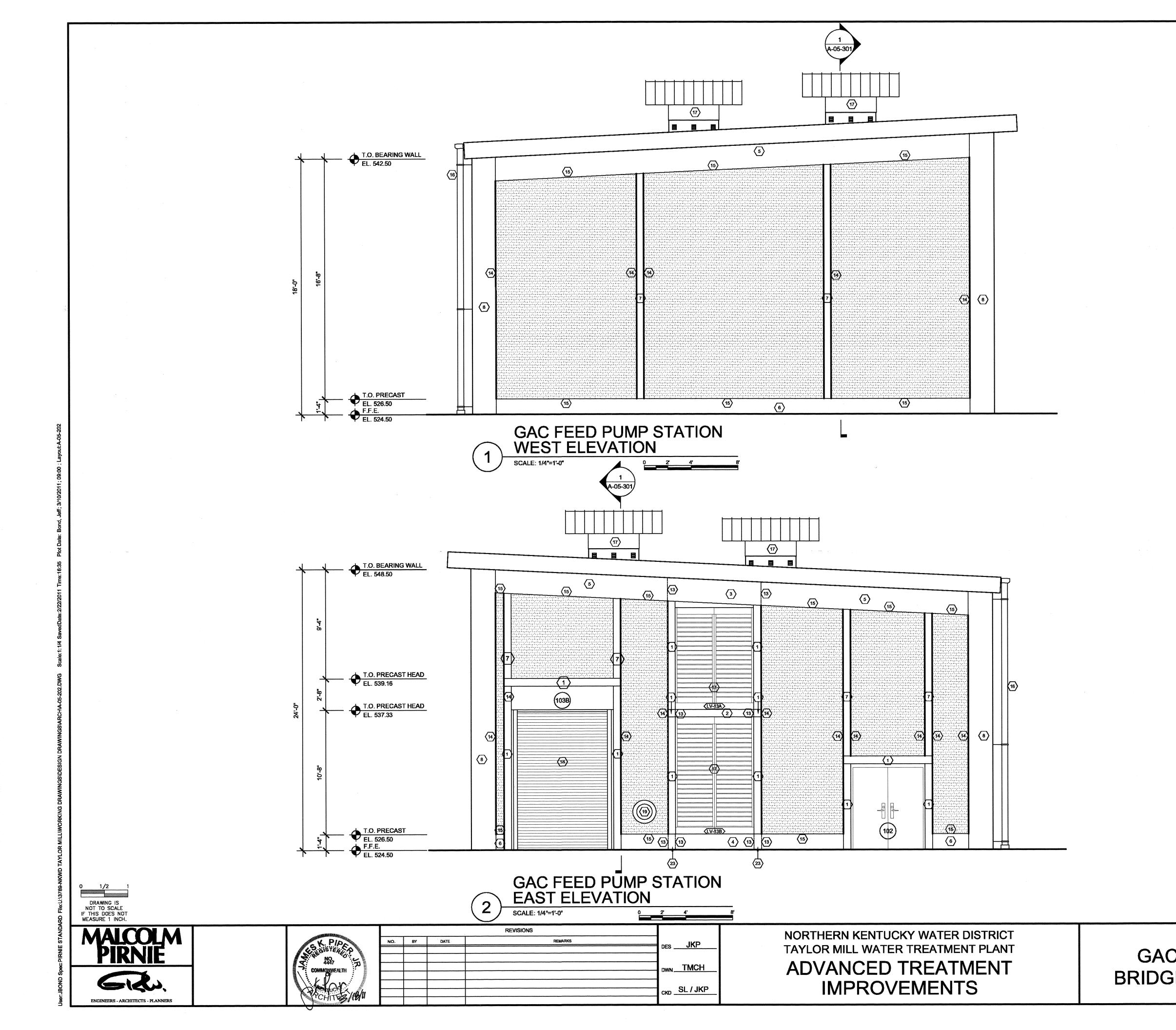


GENERAL NOTES:
1. COORDINATE MECHANICAL OPENINGS WITH APPROVED EQUIPMENT MANUFACTURER.
SYMBOL KEY:
1. SEE ARCHITECTURAL GENERAL SHEET A-00-001 FOR TYPICAL SYMBOLS.
TOR THROAD STINIDOLS.
KEYNOTES:
1. SEE DETAIL 1/A-10-531 2. SEE DETAIL 2/A-10-531
3. SEE DETAIL 2/A-10-531
4. SEE DETAIL 4/A-10-531 5. SEE DETAIL 5/A-10-531
6. SEE DETAIL 5/A-10-531
7. SEE DETAIL 7/A-10-531
8. SEE DETAIL 8/A-10-531 9. SEE DETAIL 9/A-10-531
10.SEE DETAIL 10/A-10-531
11. SEE DETAIL 11/A-10-531 12.DASHED LINF INDICATES CHANGE IN PROFILE OF A
CONTINUOUS PRECAST MEMBER.
13. DASHED LINE INDICATES CHANGE IN PROFILE OF A CONTINUOUS PRECAST MEMBER.
14. PROVIDE ELASTOMERIC SEALANT EXPANSION JOINT 15. PROVIDE BOND BREAKER MATERIAL TO PROVIDE A
SLIP SHEET BETWEEN PRECAST CONCRETE AND CLAY
MASONRY. 16. DOWNSPOUT CIRCULAR 6"x.25" MILL FINISH
ALUMINUM
17. MECHANICAL EQUIPMENT SEE 'H' SHEETS 18. NOT USED
19. SEE DETAIL 12/A-10-531
20. SEE DETAIL 13/A-10-531 21. SEE DETAIL 1/A-10-532
22. SEE DETAIL 1/A-10-532 22. SEE DETAIL 2/A-10-532
23. SEE DETAIL 4A/A-10-531

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GECRANE - ELEVATIONS I
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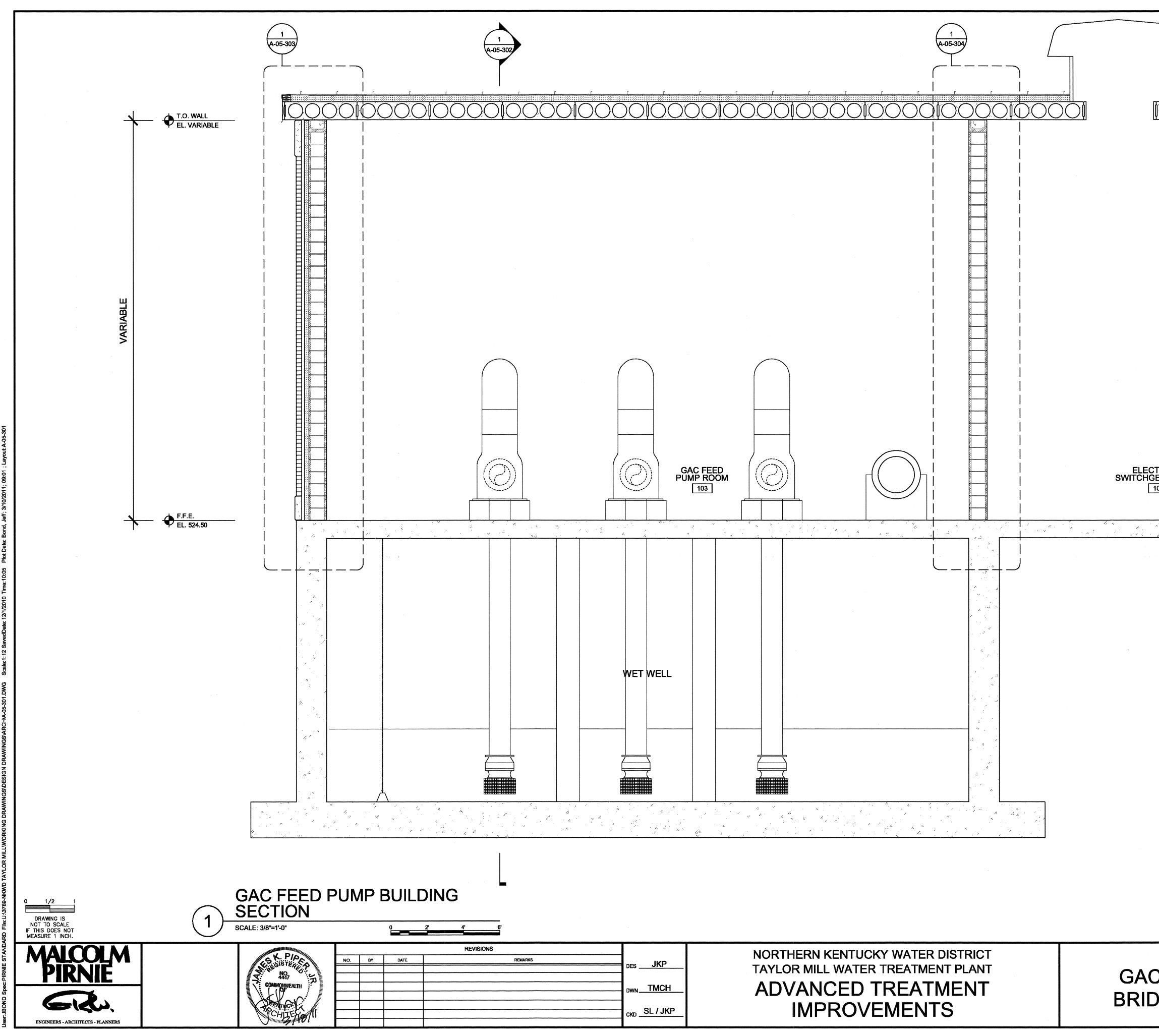
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GENERAL NOTES:
APPROVED EQUIPMENT MANUFACTURER.
SYMBOL KEY:
1. SEE ARCHITECTURAL GENERAL SHEET A-00-001 FOR TYPICAL SYMBOLS.
KEYNOTES:
 SEE DETAIL 1/A-10-531 SEE DETAIL 2/A-10-531 SEE DETAIL 3/A-10-531 SEE DETAIL 4/A-10-531 SEE DETAIL 6/A-10-531 SEE DETAIL 6/A-10-531 SEE DETAIL 6/A-10-531 SEE DETAIL 8/A-10-531 SEE DETAIL 9/A-10-531 SEE DETAIL 1/A-10-531 SEE DETAIL 1/A-10-531 SEE DETAIL 1/A-10-531 SEE DETAIL 1/A-10-531 DASHED LINE INDICATES CHANGE IN PROFILE OF A CONTINUOUS PRECAST MEMBER. PROVIDE ELASTOMERIC SEALANT EXPANSION JOINT 15. PROVIDE BOND BREAKER MATERIAL TO PROVIDE A SLIP SHEET BETWEEN PRECAST CONCRETE AND CLAY MASONRY. DOWNSPOUT CIRCULAR 6"x.25" MILL FINISH ALUMINUM. MECHANICAL EQUIPMENT SEE 'H' SHEETS 18. COORDINATE PRECAST ELEVATION W/ DOOR MANUFACTURER. ADJUST TO A JAMB MOUNTED 8'-0" W CLEAR x 12'-0" T CLEAR OPENING. PRECAST SEE DETAIL 4/A-05-304 - CENTER VENT PIPE AND PRECAST SURROUND BETWEEN JAMB OF PRECAST DOOR 103B AND JAMB OF LOUVER LV-16B. PIPE NOT ILLUSTRATED FOR CLARIT. NOT USED. NOT USED. NOT USED. NOT USED. SEE DETAIL 4/A-10-531

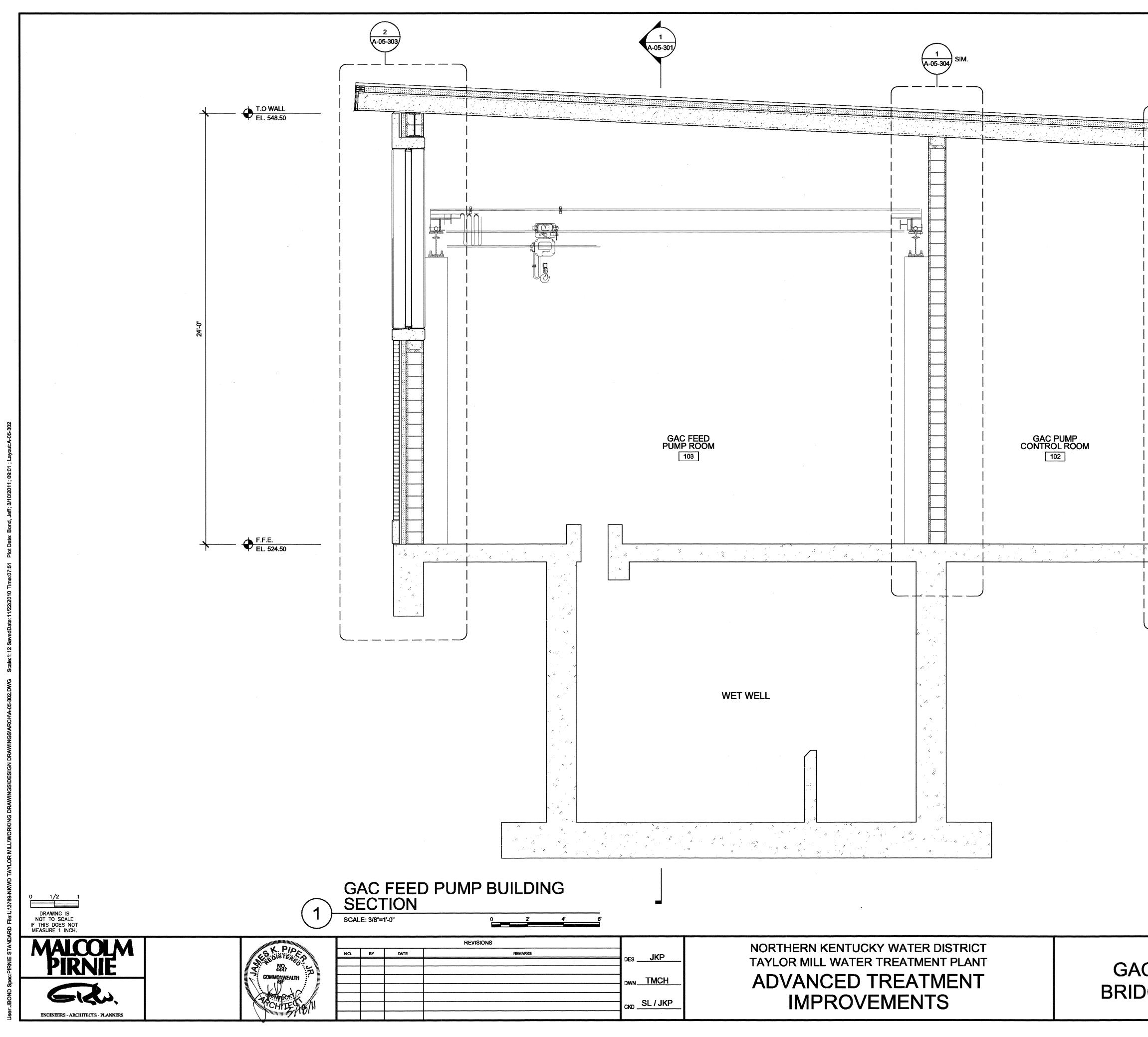
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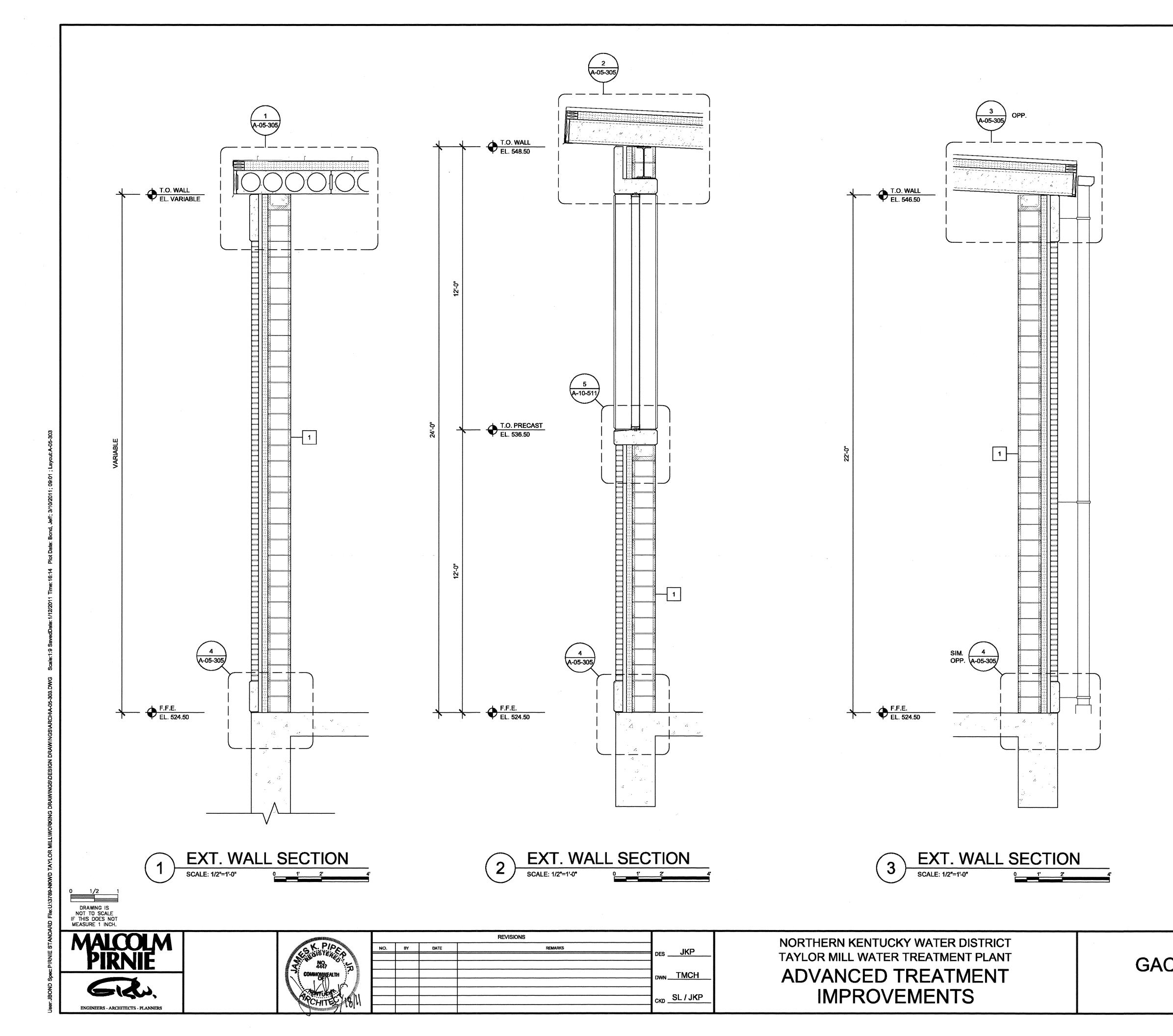


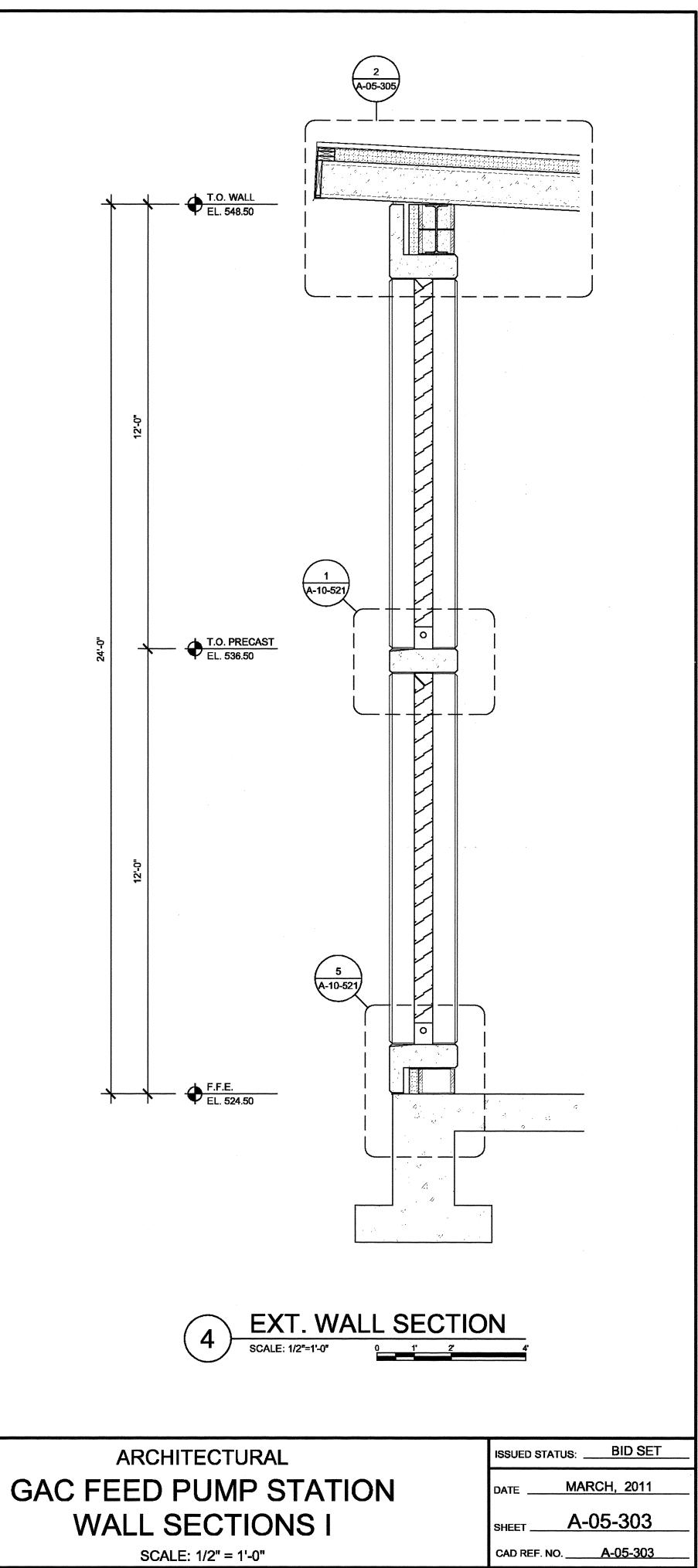
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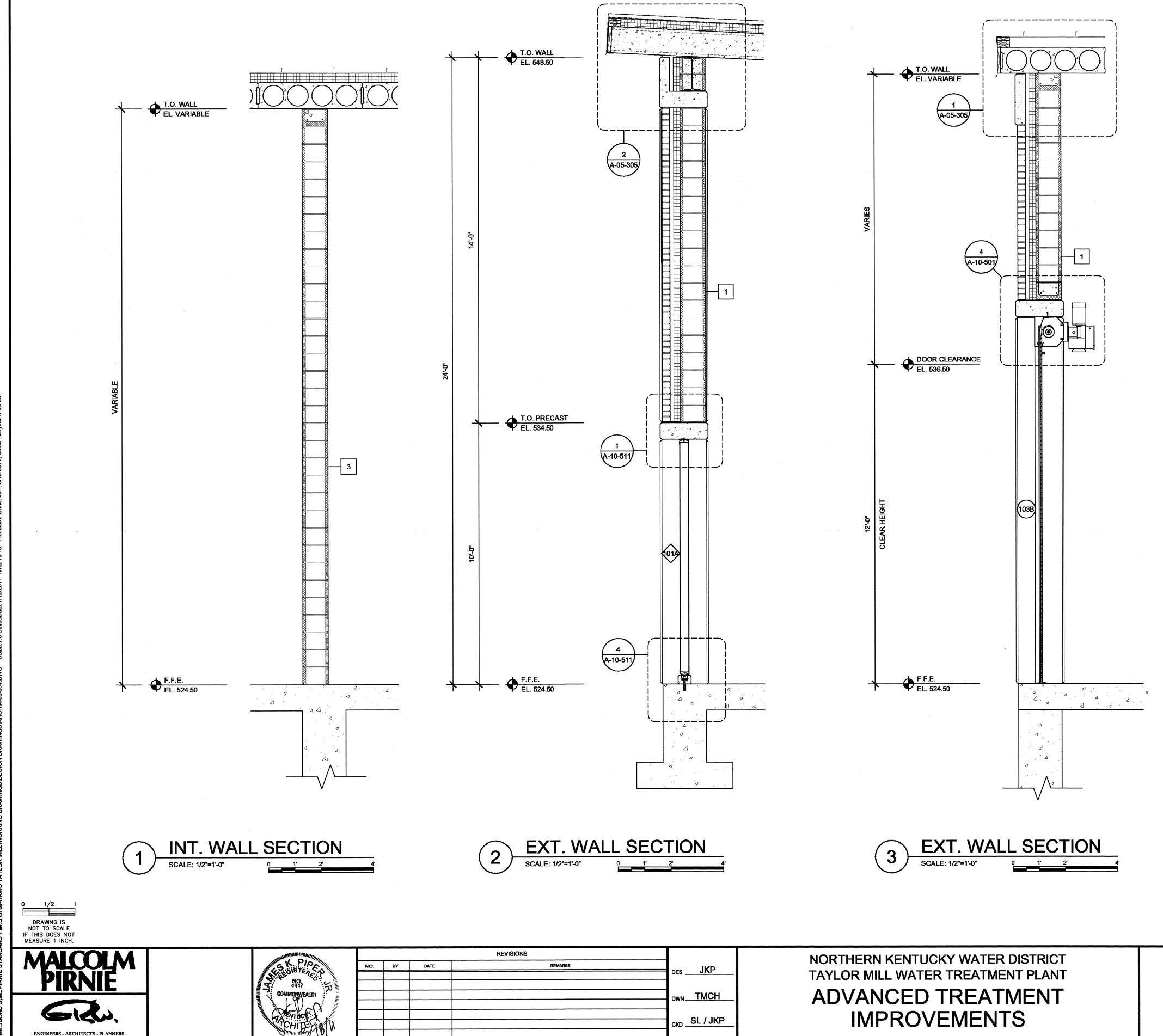
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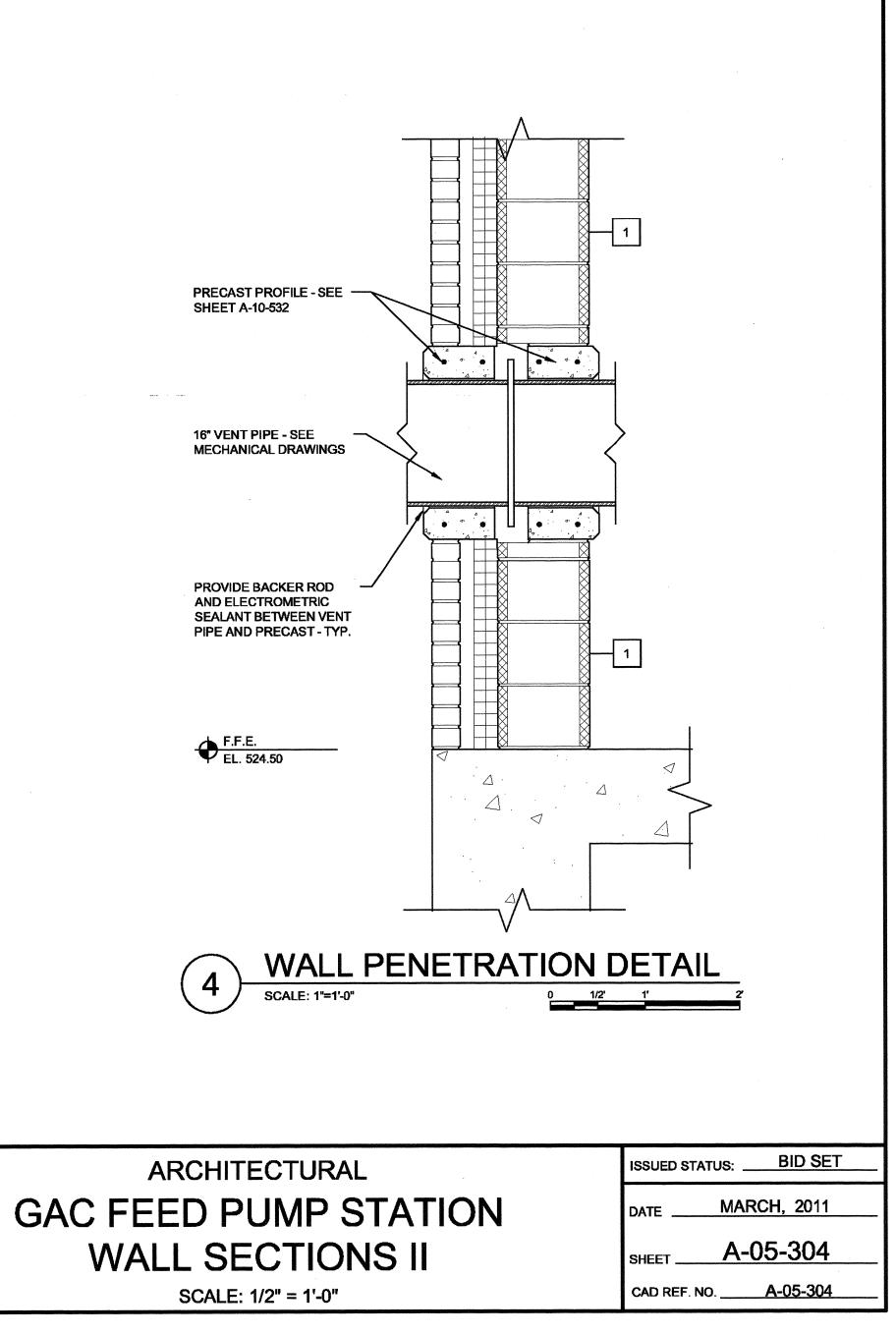


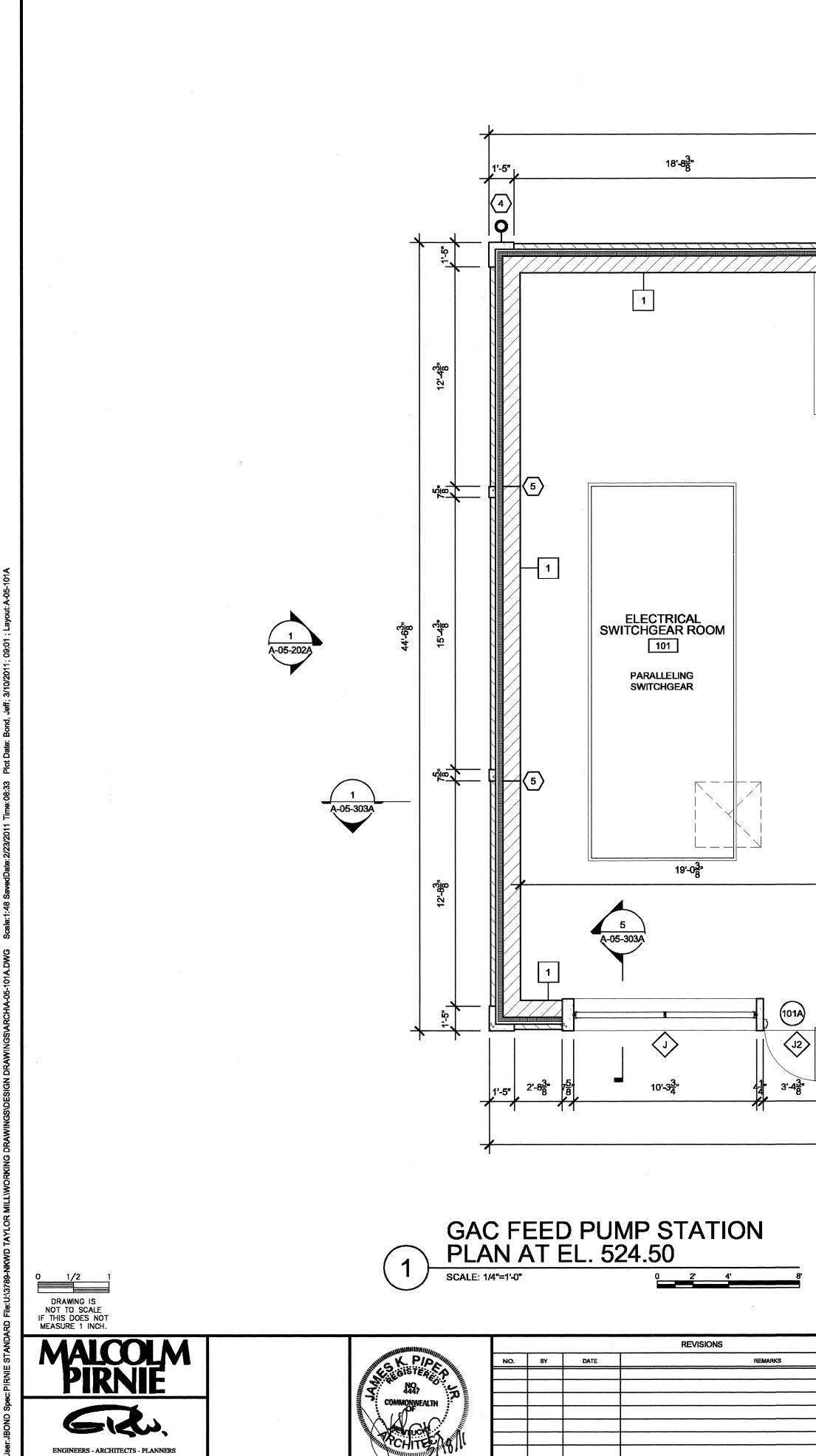
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	T.O. WALL EL. 524.50			·
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	3- 1500 KVA X'FRMER	MCC-GFP MCC-GFP GAC PUMP CONTROL ROOM 102	
	3'-3 ⁵ " 8'-8 ³ "	VFD-3 VFD-2 VFD-1	
3-		GAC FEED PUMP ROOM 103 3 4'-0" 3'-6" 4'-0" 3'-6" 4'-0" 3'-6" 4'-0" 3'-6"	3 6'-10"
	4'-7" 75 8'-0 ³ 8'-0 ³ 58'-10 ³ 8		7 <u>5</u> , 2'-9 <u>3</u> " 1'-5"
N PNC	PLAN ORTH		
REMARKS	DES JKP DWN TMCH CKD SL / JKP	NORTHERN KENTUCKY WATER D TAYLOR MILL WATER TREATMENT ADVANCED TREATM IMPROVEMENTS	ΓΡLΑΝΤ Ι ΕΝΤ

58'-10<mark>3</mark>"

11'-4<u>3</u>"

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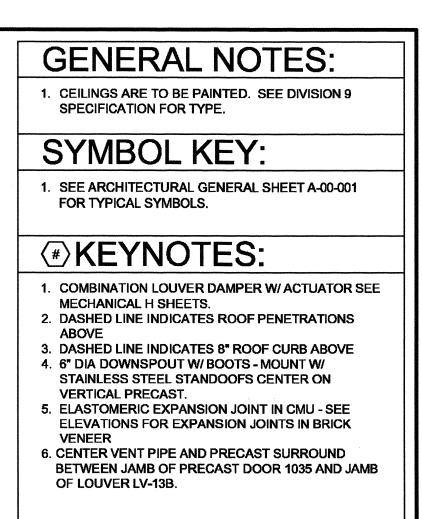
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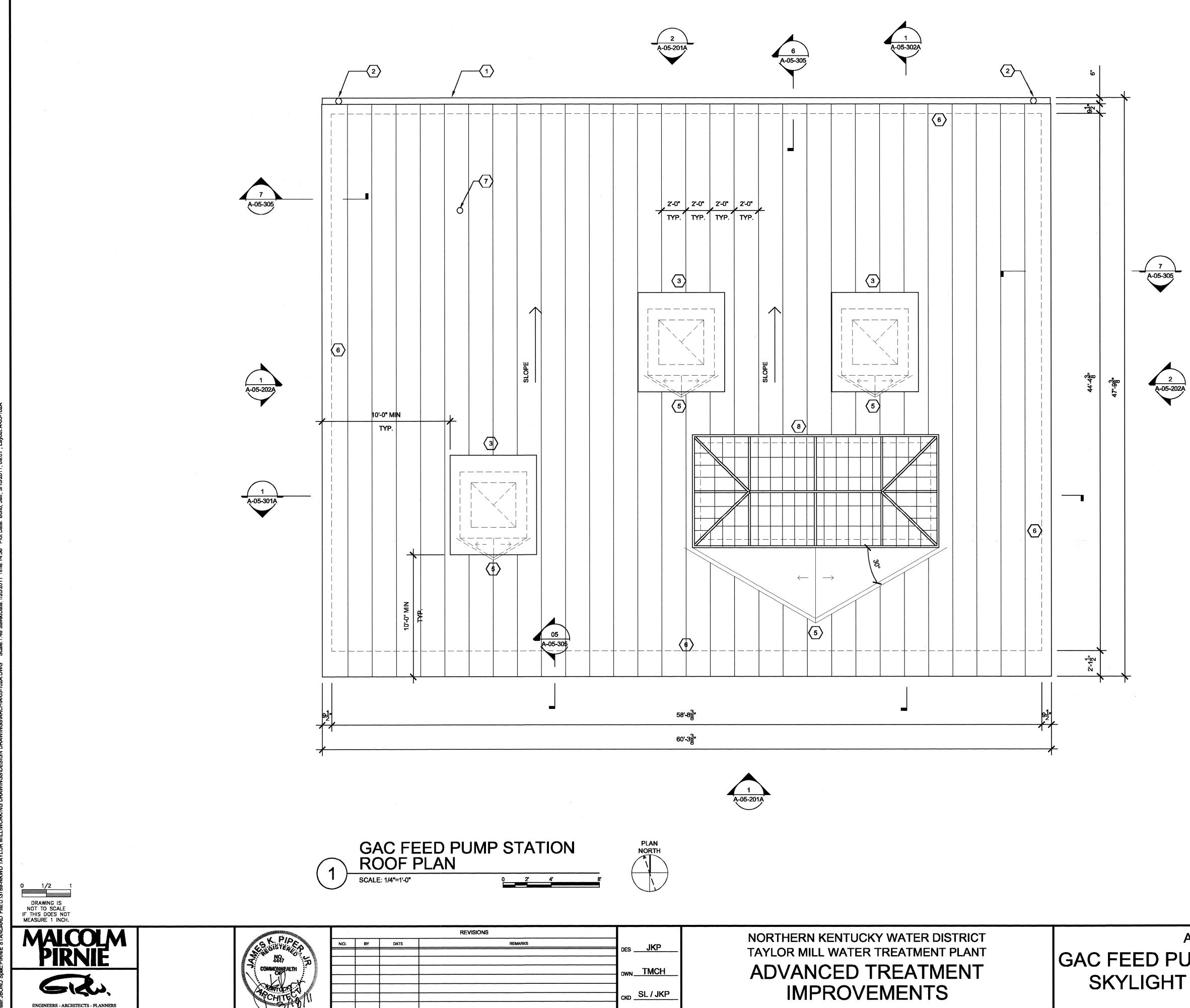
24'-8<u>3</u>"

GAC FEED SKYLIGHT





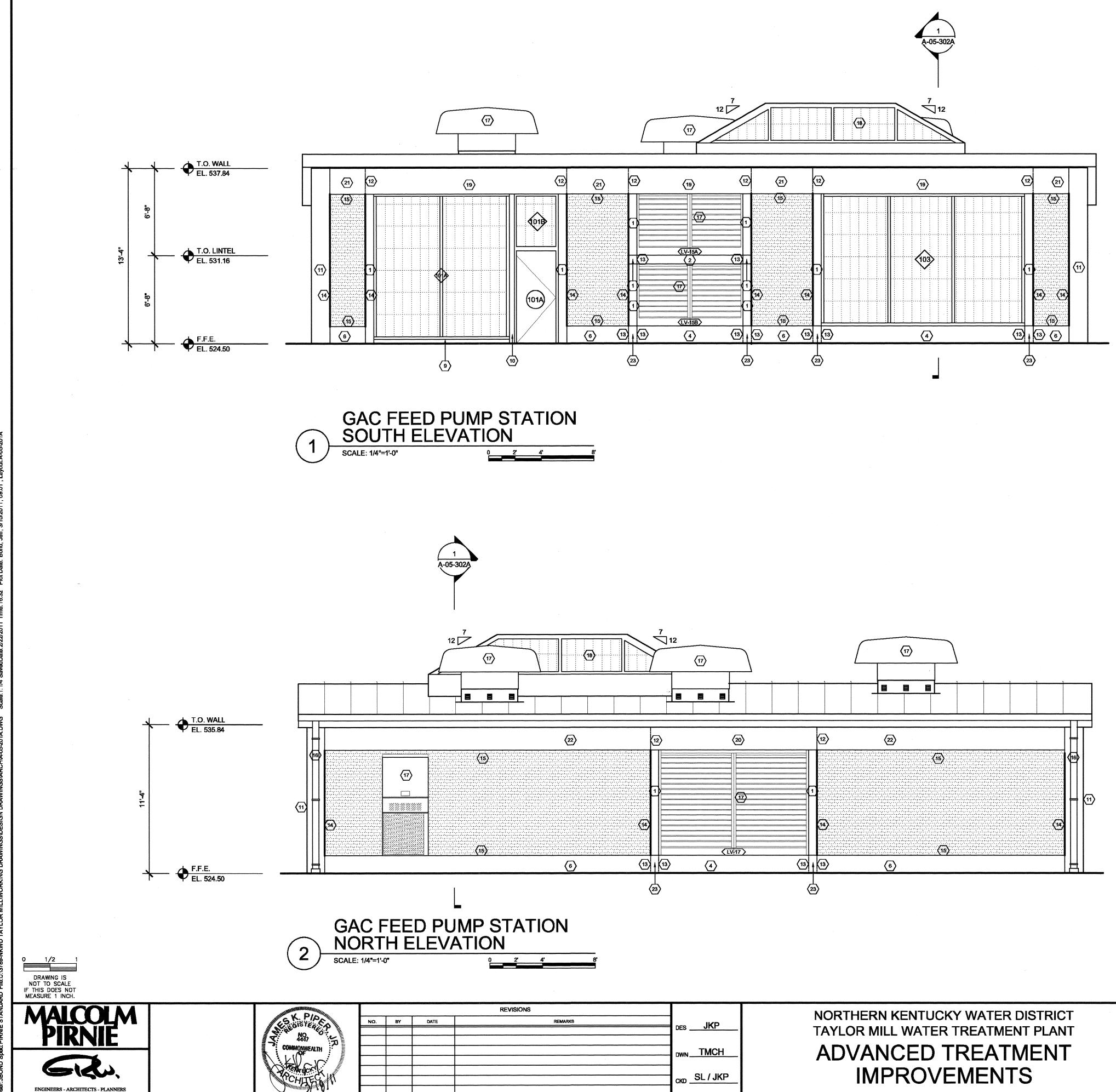
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SCALE: 1/4' =1'-0"	CAD REF. NOA-05-101A



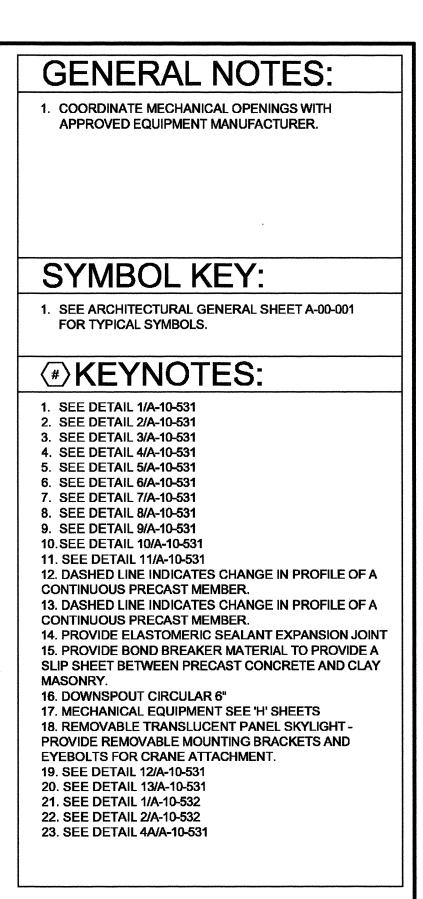
 1. PROVIDE ROOF CURBS FOR ALL ROOF MOUNTED EQUIPMENT. 2. NO ROOFTOP EQUIPMENT MAY BE LOCATED WITHING 10-0° FROM EDGE OF ROOF. 3. PROVIDE STANDING SEAM METAL ROOF - SEE DIVISION 7 SPECIFICATION. 3. PROVIDE STANDING SEAM METAL ROOF - SEE DIVISION 7 SPECIFICATION. 3. SEE ARCHITECTURAL GENERAL SHEET A-00-001 FOR TYPICAL SYMBOLS. (*) KEYNOTES: 1. 6° GUTTER 2. 6° DOWNSPOUT (CENTERED ON PRECAST CORNER SEE SHEET C-02-312 FOR DOWNSPOUT BOOT CONNECTION. 3. ROOF MNT. EXHAUST HOOD SEE 'H' SHEETS FOR DETAILS. 4. NOT USED. 5. PREFORMED METAL CRICKETS 6. DASHED LINE INDICATES EDGE OF BRICK VENEER BELOW. 7. PLUMBING VENT. SEE PLUMBING. PROVIDE ROOF MANUFACTURER'S STD. PIPE BOOT AT VENT PENETRATIONS. SEE SPECIFICATIONS FOR ADDITIONAL INFO. 8. REMOVABLE INSULATED TRANSLUCENT PANEL SKYLIGHT.
 SEE ARCHITECTURAL GENERAL SHEET A-00-001 FOR TYPICAL SYMBOLS. * KEYNOTES: 6" GUTTER 6" DOWNSPOUT (CENTERED ON PRECAST CORNER SEE SHEET C-02-312 FOR DOWNSPOUT BOOT CONNECTION. ROOF MNT. EXHAUST HOOD SEE 'H' SHEETS FOR DETAILS. NOT USED. PREFORMED METAL CRICKETS DASHED LINE INDICATES EDGE OF BRICK VENEER BELOW. PLUMBING VENT. SEE PLUMBING. PROVIDE ROOF MANUFACTURER'S STD. PIPE BOOT AT VENT PENETRATIONS. SEE SPECIFICATIONS FOR ADDITIONAL INFO. REMOVABLE INSULATED TRANSLUCENT PANEL
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 FOR TYPICAL SYMBOLS. (#) KEYNOTES: 1. 6" GUTTER 2. 6" DOWNSPOUT (CENTERED ON PRECAST CORNER SEE SHEET C-02-312 FOR DOWNSPOUT BOOT CONNECTION. 3. ROOF MNT. EXHAUST HOOD SEE 'H' SHEETS FOR DETAILS. 4. NOT USED. 5. PREFORMED METAL CRICKETS 6. DASHED LINE INDICATES EDGE OF BRICK VENEER BELOW. 7. PLUMBING VENT. SEE PLUMBING. PROVIDE ROOF MANUFACTURER'S STD. PIPE BOOT AT VENT PENETRATIONS. SEE SPECIFICATIONS FOR ADDITIONAL INFO. 8. REMOVABLE INSULATED TRANSLUCENT PANEL
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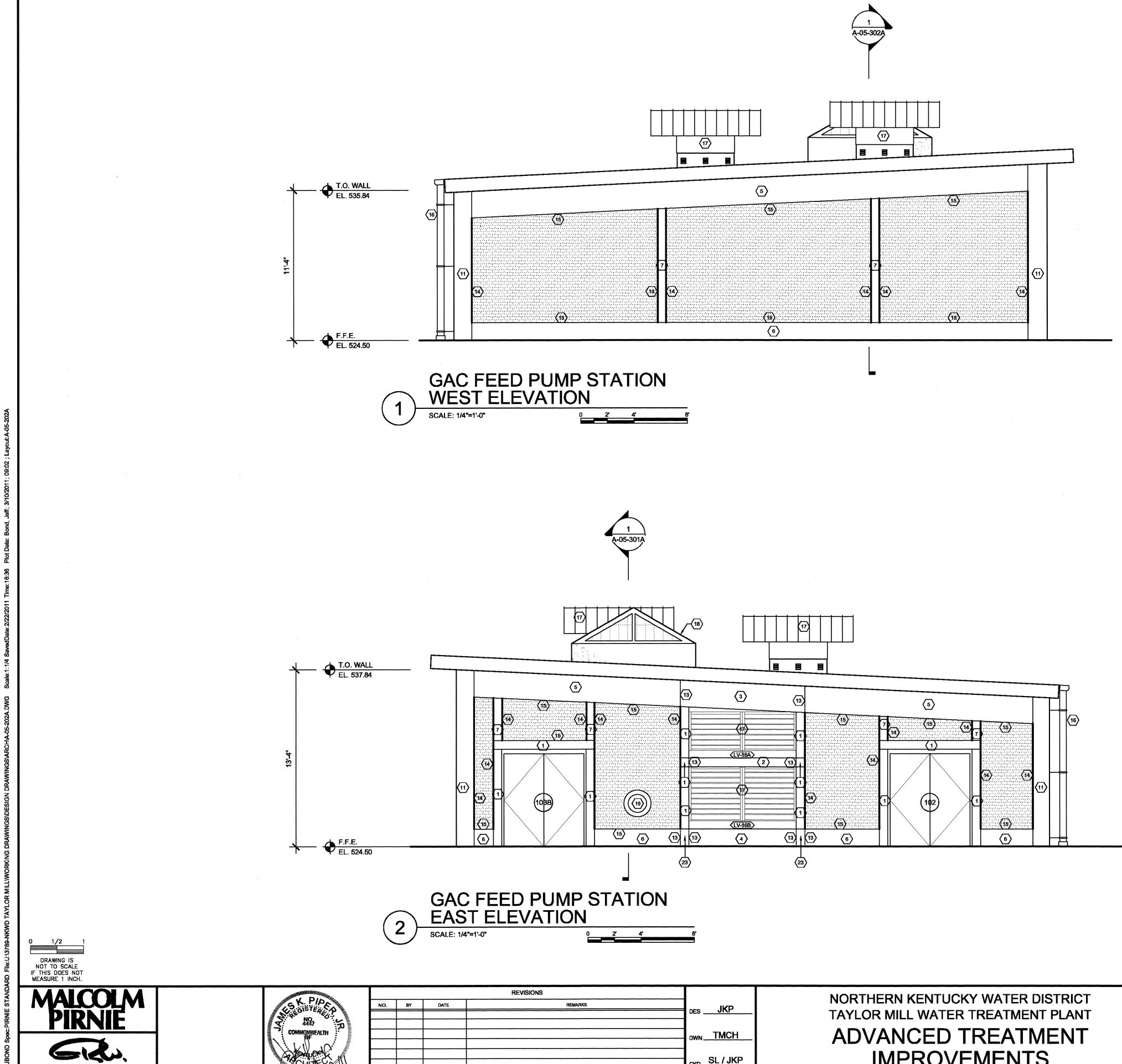


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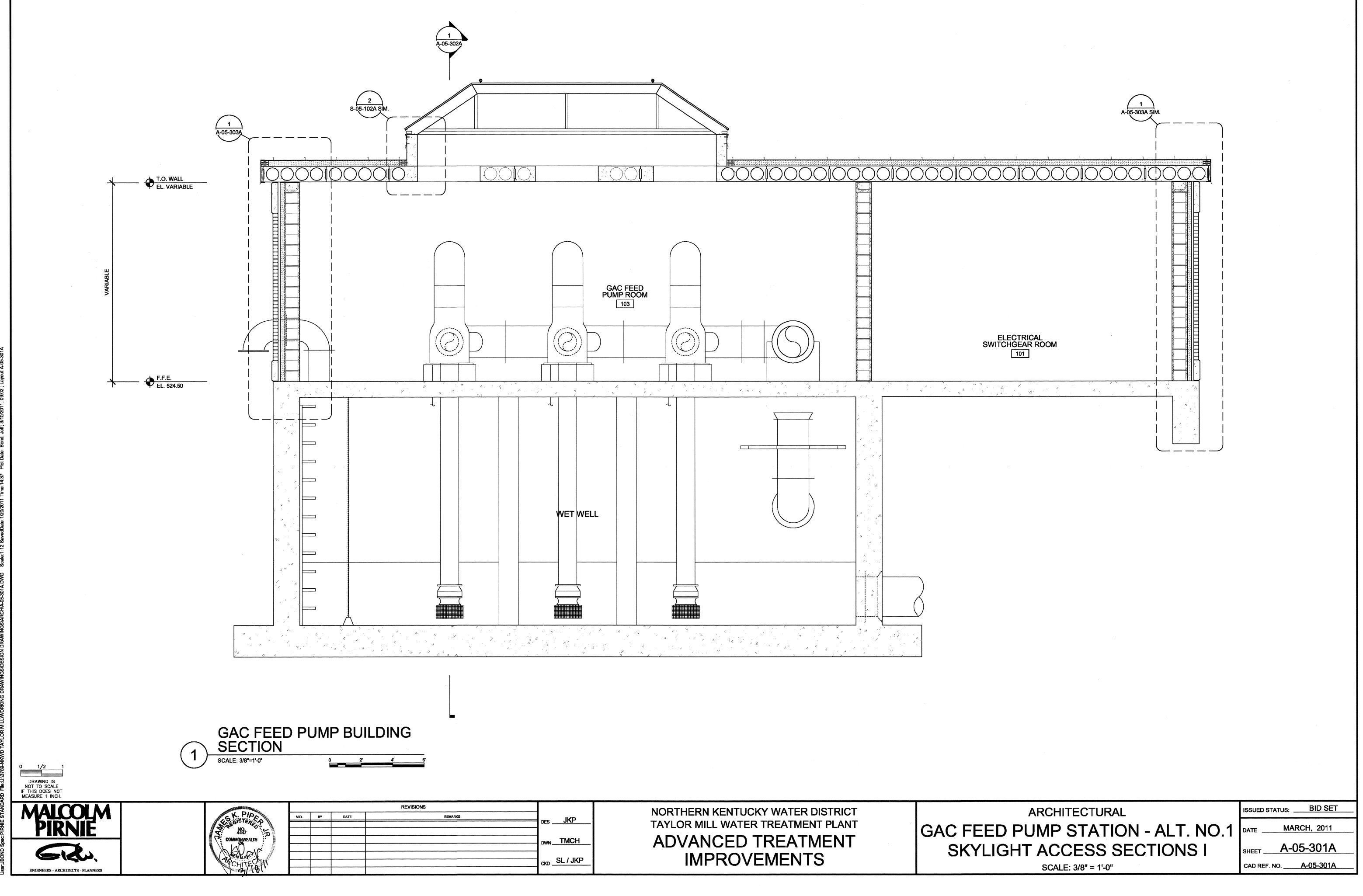
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IMPROVEMENTS

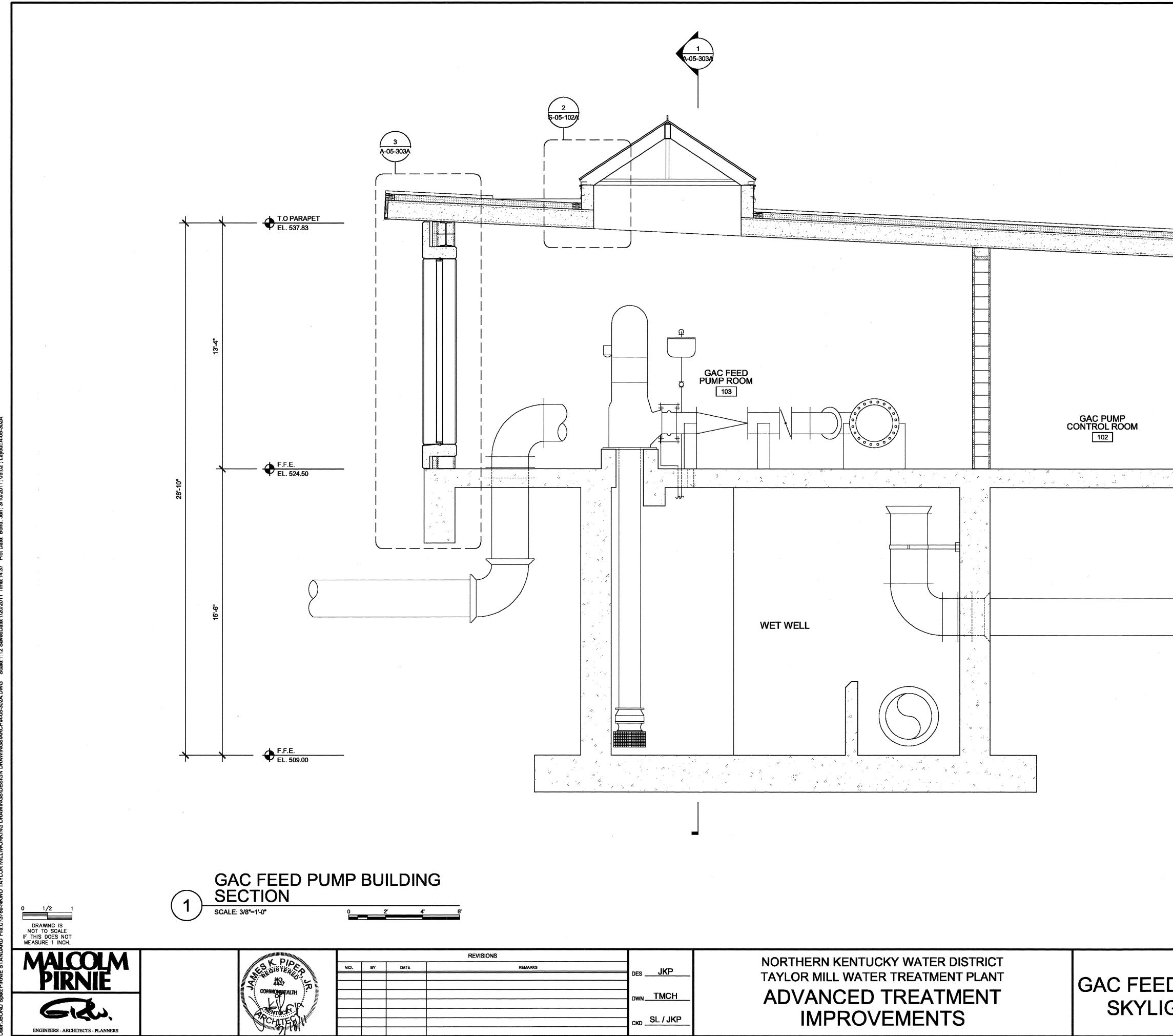


SYMBOL KEY: 1. COORDINATE MECHANICAL OPENINGS WITH APPROVED EQUIPMENT MANUFACTURER. SYMBOL EQUIPMENT MANUFACTURER. SYMBOL KEY: 1. SEE ARCHITECTURAL GENERAL SHEET A-00-001 FOR TYPICAL SYMBOLS. (*) KEYNOTES: 1. SEE DETAIL 1/A-10-531 2. SEE DETAIL 2/A-10-531 3. SEE DETAIL 2/A-10-531 3. SEE DETAIL 2/A-10-531 3. SEE DETAIL 3/A-10-531 3. SEE DETAIL 3/A-10-531 5. SEE DETAIL 3/A-10-531 5. SEE DETAIL 3/A-10-531 7. SEE DETAIL 3/A-10-531 8. SEE DETAIL 3/A-10-531 10. SEE DETAIL 3/A-10-531 11. SEE DETAIL 3/A-10-531 11. SEE DETAIL 1/A-10-531 12. NOT USED. 13. NASHED LINE INDICATES CHANGE IN PROFILE OF A CONTINUOUS PRECAST MEMBER. 14. PROVIDE ELASTOMERIC SEALANT EXPANSION JOINT 15. PROVIDE ELASTOMERIC SEALANT EXPANSION JOINT 16. PROVIDE BOND BREAKER MATERIAL TO PROVIDE A SLIP SHEET BETWEEN PRECAST CONCRETE AND CLAY MASONRY. 16. LOWINSPOUT CIRCULAR 6 ^x 2.25 ^x MILL FINISH ALUA-40-530 - CENTER VENT PIPE AND PRECAST SURROUND BETWEEN JAMB OF PRECAST DOR 103B AND JAMB OF LOUVER LV-16B. PIPE AND PRECAST SURROUND BETWEEN JAMB OF PRECAST DOR 103B AND JAMB OF LOUVER LV-16B. PIPE AND PRECAST SURROUND BETWEEN JAMB OF PRECAST DOR 103B AND JAMB OF LOUVER LV-16B. PIPE AND PRECAST SURROUND BETWEEN JAMB OF PRECAST DOR 103B AND JAMB OF LOUVER LV-16B. PIPE AND PRECAST SURROUND BETWEEN JAMB OF PRECAST D	
APPROVED EQUIPMENT MANUFACTURER. SYMBOL KEY: 1. SEE ARCHITECTURAL GENERAL SHEET A-00-001 FOR TYPICAL SYMBOLS. KEYNOTES: 1. SEE DETAIL 1/A-10-531 2. SEE DETAIL 2/A-10-531 3. SEE DETAIL 2/A-10-531 3. SEE DETAIL 2/A-10-531 3. SEE DETAIL 3/A-10-531 5. SEE DETAIL 4/A-10-531 5. SEE DETAIL 4/A-10-531 6. SEE DETAIL 4/A-10-531 7. SEE DETAIL 4/A-10-531 8. SEE DETAIL 4/A-10-531 10. SEE DETAIL 1/A-10-531 11. SEE DETAIL 1/A-10-531 12. NOT USED. 13. DASHED LINE INDICATES CHANGE IN PROFILE OF A CONTINUOUS PRECAST MEMBER. 14. PROVIDE ELASTOMERIC SEALANT EXPANSION JOINT 15. PROVIDE ELASTOMERIC SEALANT EXPANSION JOINT 16. DOWNSPOUT CIRCULAR 6*x.25" MILL FINISH ALUMINUM. 17. MECHANICAL EQUIPMENT SEE 'H' SHEETS 18. REMOVABLE TRANSLUCENT PANEL SKYLIGHT 19. PRECAST SEE DETAIL 4/A-05-304 - CENTER VENT PIFE AND PRECAST SURROUND BETWEEN JAMB OF PRECAST DOOR 103B AND JAMB OF LOUVER LV-16B. PIFE NOT ILLUSTRATED FOR CLARITY. 20. NOT USED. 21. NOT USED. 22. NOT USED.	SYMBOL KEY:
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22. NOT USED.	
23. SEE DETAIL 4A/A-10-531	
	23. SEE DETAIL 4A/A-10-531

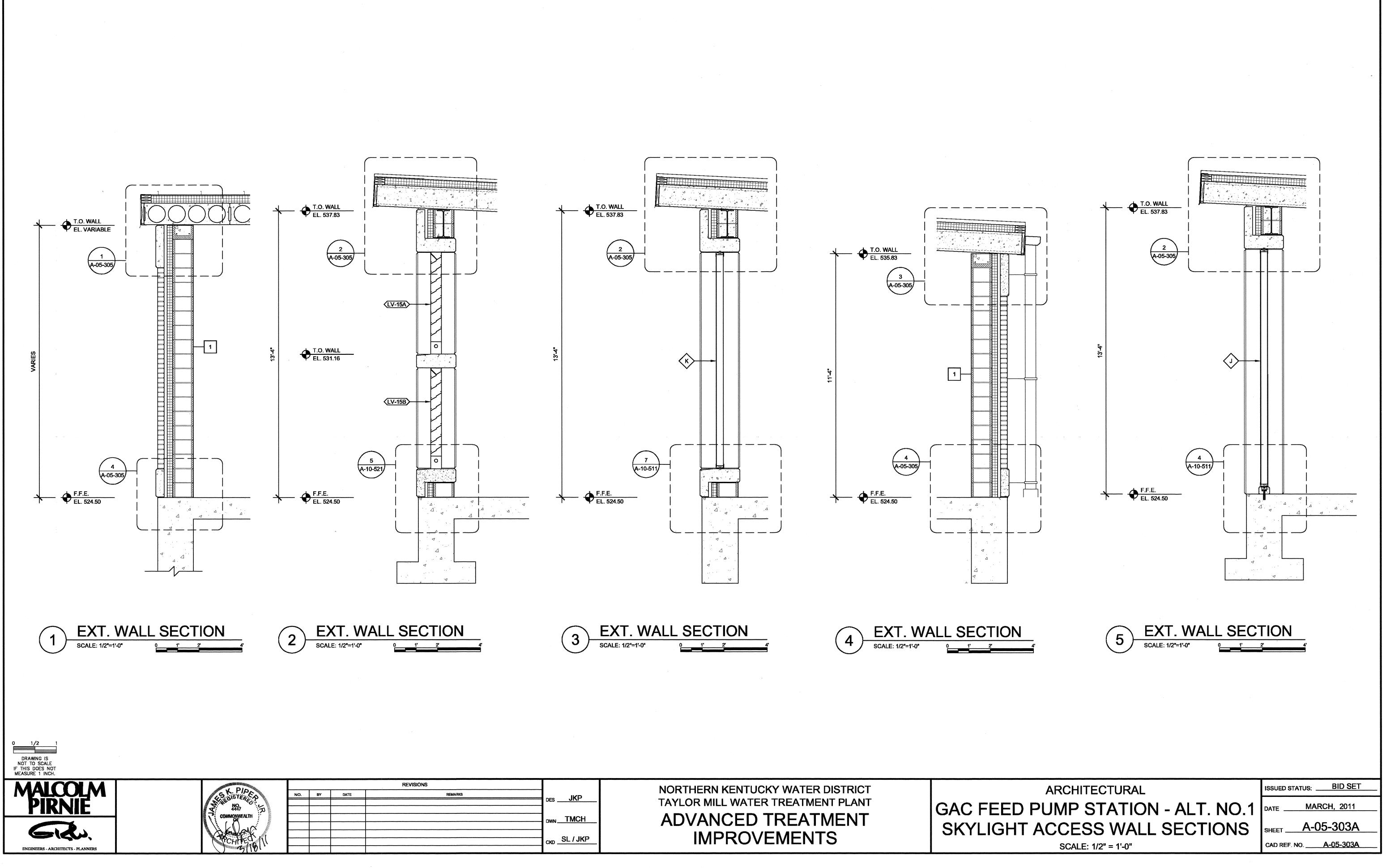
ARCHITECTURAL	ISSUED STATUS:BID SET
D PUMP STATION - ALT. NO.1	DATEMARCH, 2011
	SHEET A-05-202A
SCALE: 1/4" = 1'-0"	CAD REF. NO. <u>A-05-202A</u>

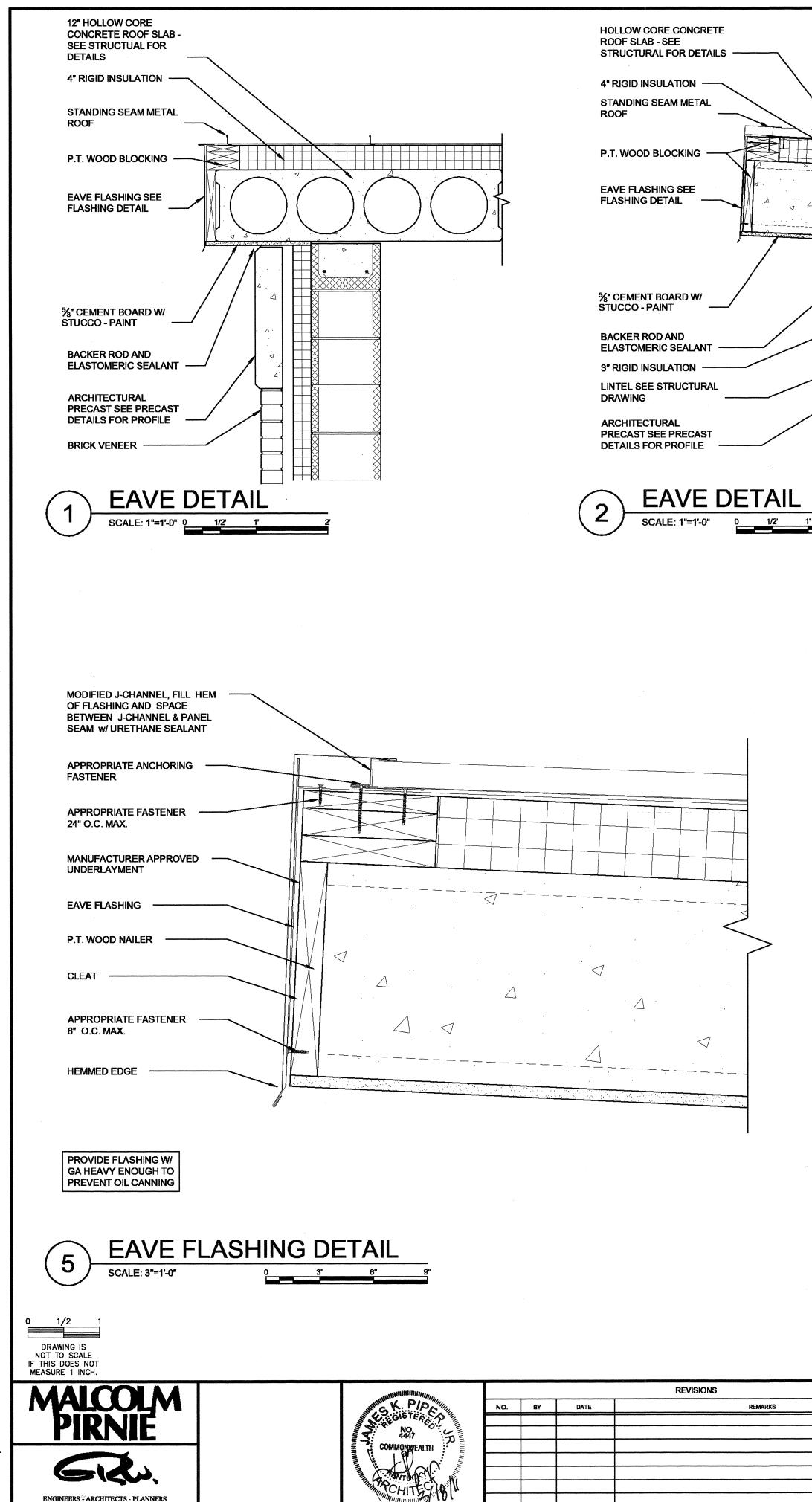


 DES JKP DWN TMCH CKD SL / JKP	NORTHERN KENTUCKY WATER DISTRICT TAYLOR MILL WATER TREATMENT PLANT ADVANCED TREATMENT IMPROVEMENTS	GAC FEED SKYLIG



ARCHITECTURAL	ISSUED STATUS: <u>BID SET</u>
D PUMP STATION - ALT. NO.1	DATE <u>MARCH, 2011</u>
GHT ACCESS SECTIONS II	SHEET <u>A-05-302A</u>
SCALE: 3/8" = 1'-0"	CAD REF. NO. <u>A-05-302A</u>

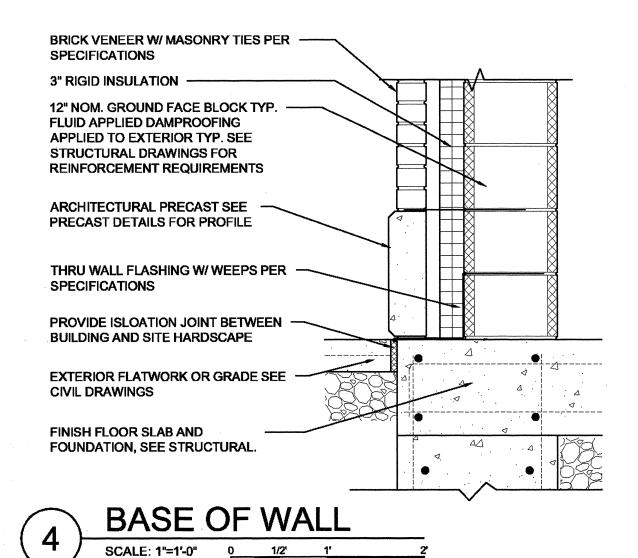


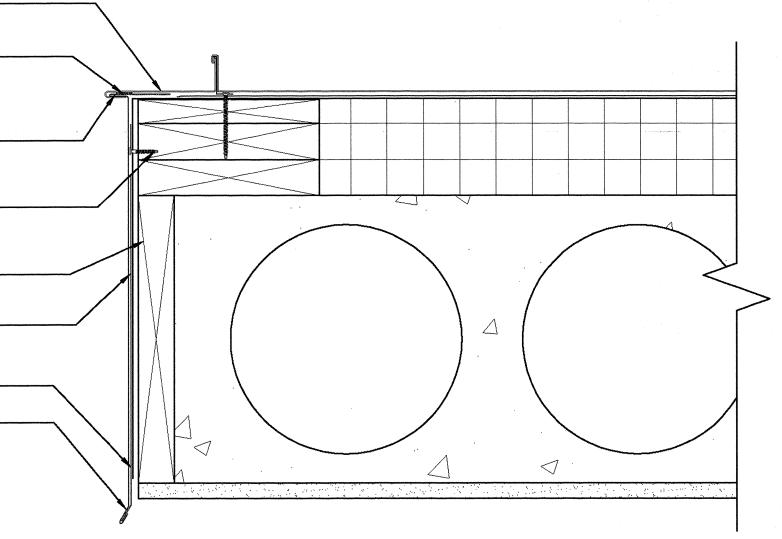


	HOLLOW CORE CONCRETE ROOF SLAB - SEE STRUCTURAL FOR DETAILS 4" RIGID INSULATION STANDING SEAM METAL ROOF P.T. WOOD BLOCKING 6" MILL FINISH ALUMINUM GUTTER EAVE FLASHING - SEE FLASHING DETAIL 6"x.25" MILL FINISH ALUMINUM DOWNSPOUT %" CEMENT BOARD W/ STUCCO - PAINT BACKER ROD AND ELASTOMERIC SEALANT STAINLESS STEEL STANCHION
	ARCHITECTURAL PRECAST SEE PRECAST DETAILS FOR PROFILE BRICK VENEER 3" RIGID INSULATION EAVE DETAIL SCALE: 1"=1'-0" <u>12 1' 2</u>
MIN. 6" WIDE APPROVED UNDERLAYMENT APPROPRIATE FASTENER 8" O.C. MAX. 3/16" x 7/8" DOUBLE BEAD BUTYL TAPE EAVE STARTER FLASHING APPROVED UNDERLAYMENT EAVE FLASHING P.T. WOOD NAILER CLEAT APPROPRIATE FASTENER 8" O.C. MAX. HEMMED EDGE	APPROPRIATE FASTENER 3" O.C. MAX. 3/16" x 7/8" DOUBLE — BEAD BUTYL TAPE BEAD BUTYL TAPE METAL PANEL (FIELD — HEM OVER RAKE FLASHING) APPROPRIATE FASTENER 8" O.C. MAX. P.T. WOOD NAILER — UNDERLAYMENT KEEPER STRIP — RAKE FLASHING
PROVIDE FLASHING W GA HEAVY ENOUGH TO PREVENT OIL CANNING 6 EAVE AT GUTTER SCALE: 3"=1'-0" <u>3" 6" 9</u>	PROVIDE FLASHING W/ GA HEAVY ENOUGH TO PREVENT OIL CANNING

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DES JKP
DWN TMCH
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NORTHERN KENTUCKY WATER DISTRICT TAYLOR MILL WATER TREATMENT PLANT ADVANCED TREATMENT IMPROVEMENTS

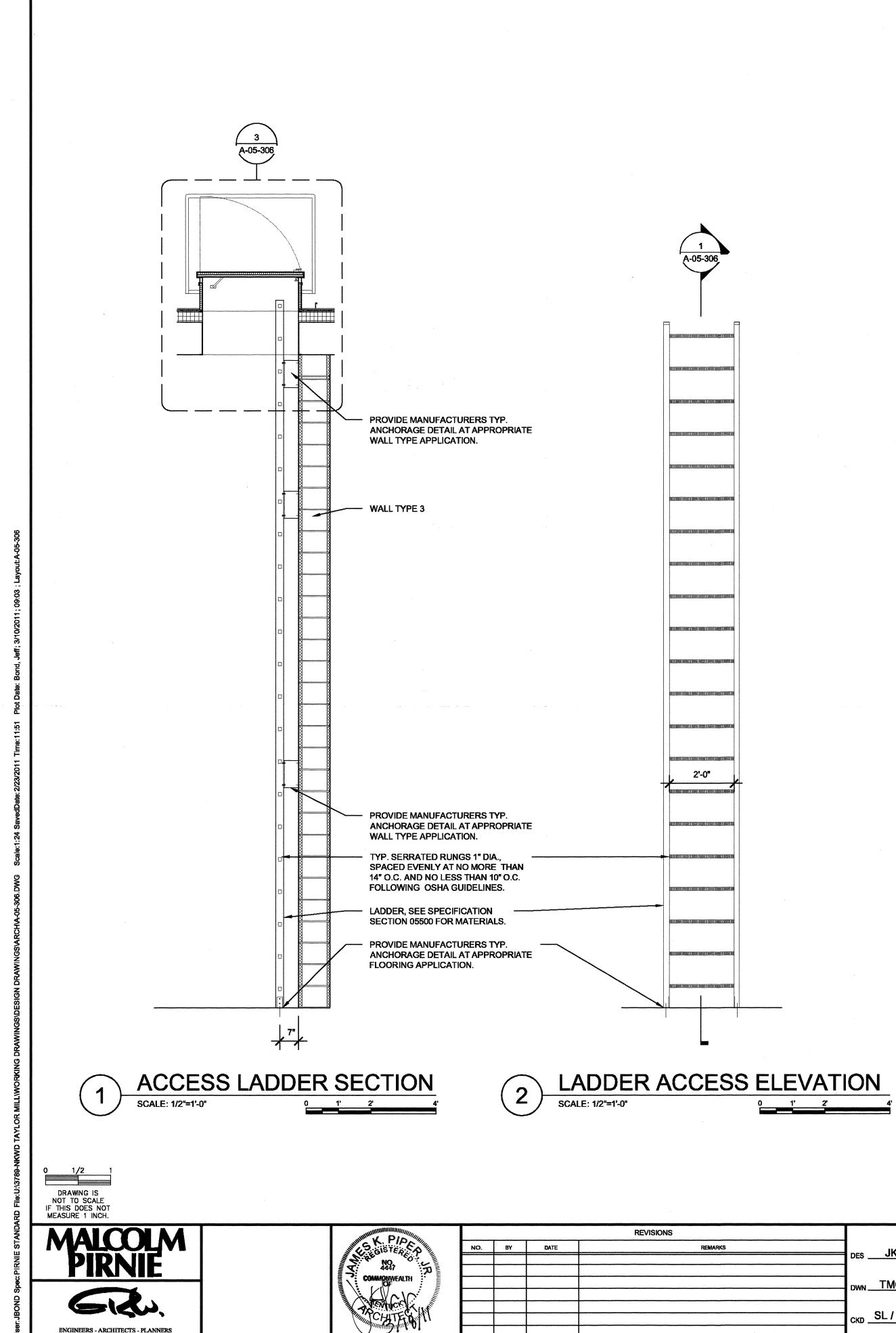


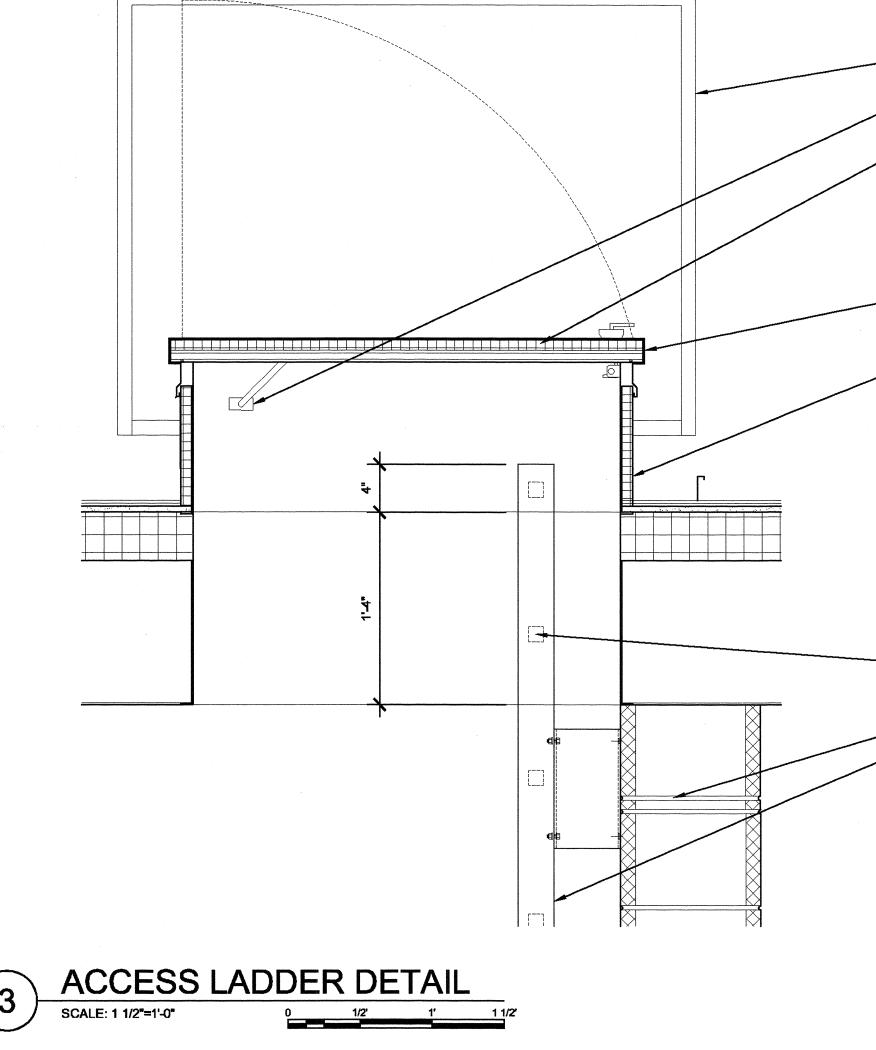




ARCHITECTURAL GAC FEED PUMP STATION **BUILDING DETAILS** SCALE: AS NOTED

ISSUED STATUS:BID SET	
DATEMARCH, 2011	-
SHEET A-05-305	-
CAD REF. NO. <u>A-05-305</u>	-







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DES _____JKP__ DWN TMCH CKD SL/JKP

NORTHERN KENTUCKY WATER DISTRICT TAYLOR MILL WATER TREATMENT PLANT ADVANCED TREATMENT IMPROVEMENTS

GENERAL NOTES:

1. LADDER IS TO BE EQUIPPED WITH A 50' SELF-RETRACTING LIFELINE EQUAL TO THE MILLER FALCON STEEL CABLE RETRACTABLE. LIFELINE SHALL MEET OSHA STANDARDS.

HATCH SAFETY RAILING TO MEET OSHA REQUIREMENTS

COMPRESSION SPRING LIFTING **OPERATOR COVER MECHANISM**

PROVIDE 1" COVER FIBERGLASS INSULATION WITH GALV. STEEL LINER, WELD TO COVER - SEE SPECS

REINFORCED GLAV. STEEL COVER WITH CONTINUOUS HEAVY EXTRUDED EPDM RUBBER GASKET BONDED TO COVER.

GALV. STEEL CURB WITH 1" FIBERBOARD CURB INSULATION - SEE SPECS

TYP. SEPARATED RUNGS 1" DIA., SPACED EVENLY AT NO MORE THAN 14" O.C. FOLLOWING OSHA GUIDELINES

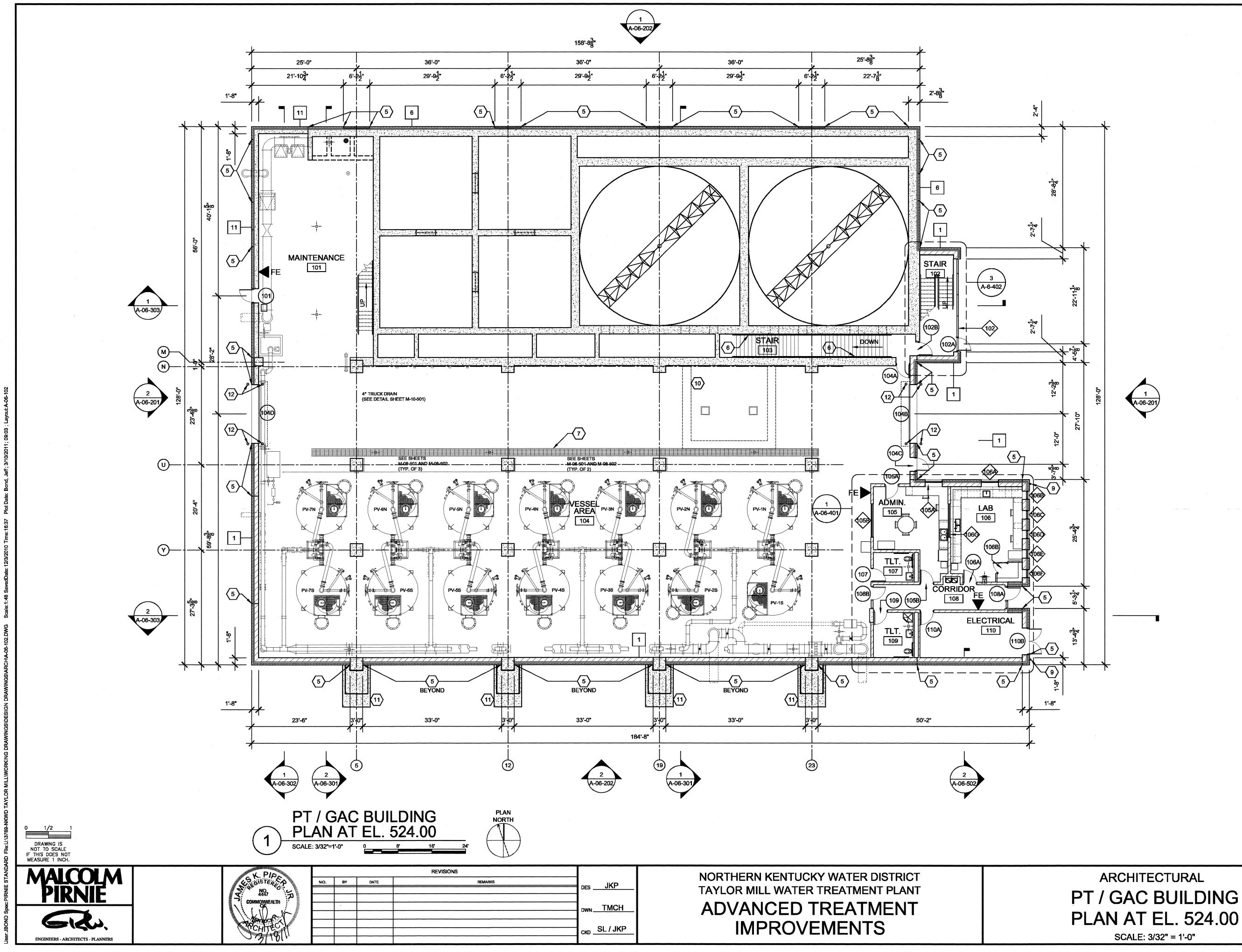
WALL TYPE VARIES BY LOCATION ROOF ACCESS LADDER

ARCHITECTURAL GAC FEED PUMP STATION **ROOF ACCESS LADDER / HATCH**

ISSUE	D STATUS: BID SET
DATE	MARCH, 2011
SHEET	A-05-306
CAD R	EF. NO. <u>A-05-306</u>

au -

SCALE: AS NOTED



GENERAL NOTES: 1. SEE A-00-001 FOR WALL TYPES. 2. COORDINATE WORK OF OTHER TRADES. 3. CARBON VESSELS, PRETREATMENT BASINS, AND PIPING SHOWN FOR REFERENCE ONLY. SEE SHEET SPECIFIC TO DESIGN FOR LAYOUT. SYMBOL KEY: ~<u>[</u>0 1. SEE ARCHITECTURAL GENERAL SHEET A-00-001 FOR TYPICAL SYMBOLS. **KEYNOTES:** 1. NOT USED. 2. NOT USED. 3. NOT USED. 4. NOT USED. 5. MASONRY CONTROL / EXPANSION JOINT. SEE STRUCTURAL GENERAL DETAILS FOR JOINT IN CONCRETE MASONRY. PROVIDE ³/₈ COMPRESSIBLE 1 A-06-201 MATERIAL, BACKER ROD, SEALANT AT CLAY MASONRY PORTION OF JOINT. SEALANT TO MATCH MORTAR COLOR. 6. 1¹/₂" DIA. GALVANIZED STEEL WALL MOUNTED HÂNDRAIL AT 36" ABOVE STAIR NOSING. 7. TRENCH DRAIN, SEE STRUCTURAL AND PLUMBING DRAWINGS. 8. NOT USED. 9. DOWN SPOUT LOCATION, SEE ROOF PLAN AND DETAILS 4/A-06-502. 10. DASHED LINES INDICATE PUMP ROOM BELOW, SEE M-06-101, S-06-307. 11. SEE SHEET A-10-533 THRU A-10-535 FOR COLUMN AND PRECAST COLUMN COVER DETAILS. 12.BOLLARD - SEE DETAIL 3/C-01-501. LOCATE 1'-0" OFF FACE OF WALL AND ALIGNED WITH OPENING. 5 ISSUED STATUS: _____BID SET ARCHITECTURAL PT / GAC BUILDING MARCH, 2011 DATE _

SCALE: 3/32" = 1'-0"

CAD REF. NO. <u>A-06-102</u>

SHEET _

A-06-102

