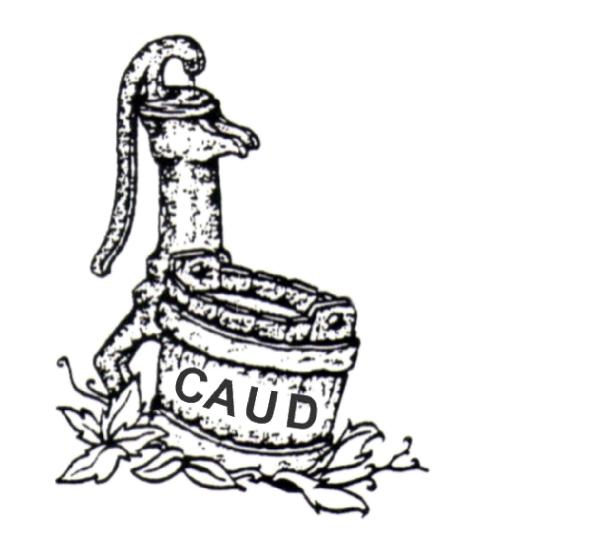
## PROJECT NO. 23011

# **Columbia-Adair Utilities District** Adair County, Kentucky

# CONTRACT No. 1 PHASE 23 WTP AND SYSTEM IMPROVEMENTS

FOR THE



MAY 2024



# SRF PROJECT NO. - WX21001032 KIA LOAN NO. - F23-0065



**BID DOCUMENTS** 

ABBREVI	ATIONS	ABBREVIATIO	REVIATIONS ABBREVIATIONS CONT.		
A.B. ABAND	ANCHOR BOLT ABANDONED		N CONTROL JOINT NDARD DETAIL		
ADD'L.	ADDITIONAL	SEC. SECT	TION		
ALT. ALUM	ALTERNATE/ALTERNATIVE ALUMINUM	SL SLUI	E OR SLUICE GATE DGE LINE		
APPROX @	APPROXIMATE AT	SPEC. SPEC	CE/SPACES CIFY/SPECIFICATIONS		
AUX B./BOTT./BOT.	AUXILIARY BOTTOM	SQ. OR SQU. S.B. STAI	ARE NLESS STEEL		
B'FLY BLDG.	BUTTERFLY BUILDING		GGER/STAGGERED FENER		
BM. B.O.	BEAM BOTTOM OF		NDARD RM SEWER		
B.O.S. BRDG.	BOTTOM OF STEEL BRIDGING	SWD SIDE	WATER DEPTH OUGH		
C/C C.I.P.	CENTER TO CENTER CAST IN PLACE	TYP. TYP	CAL/TYPICALLY ERGROUND ELECTRIC PO		
C.J. CL	CONTROL JOINT CENTERLINE	U.O.N. UNL	ENGROUND ELECTRIC FO ESS OTHERWISE NOTED RAVIOLET		
CLR., CL.	CLEAR	V, VERT VER	TICAL		
CMP CO	CORRUGATED METAL PIPE CLEAN OUT	VIT VEL	OCITY ELEMENT OCITY INSTRUMENT AND		
COL. CONC.	COLUMN CONCRETE	W/ WIT			
CONSTR. CONN.	CONSTRUCTION CONNECTION	W.C. WAT	HOUT 'ER COLUMN		
CONT. PVC	CONTINUOUS POLYVINYL CHLORIDE PIPE	W.S.E. WAT	TER SURFACE ELEVATION		
CTR. CW	CENTER CITY WATER/PLANT WATER				
D DEMO	DRAIN DEMOLISH				
DEMO'D DET.	DEMOLISHED DETAIL	LEGEND			
DIA. OR DIM.	DIAMETER DIMENSION				
DIM. DIP DN.	DUCTILE IRON PIPE DOWN	— w — w — w —	w — WATER LINE		
DO.	DITTO	— G — G — G — G	G — GAS LINE		
DP. DWG.	DEEP DRAWING	E E E	E ELECTRIC LINE		
DWL. EA.	DOWEL EACH	CATV CATV CA	TV — CATV LINE		
E.F. E.J.	EACH FACE EXPANSION JOINT	SAN SAN SAN	SANITARY LINE		
ELEC. EL, ELEV.	ELECTRIC/ELECTRICAL ELEVATION	STS STS STS	— STORM LINE		
EMB., EMBED. ENG.	EMBEDMENT ENGINEER	<u> </u>	× — FENCE LINE		
EQ. E.W.	EQUAL/EQUIVALENT EACH WAY	— P — P — P — P —	P — PROPERTY LINE		
EX, EXIST, EXTG EXP.	EXISTING EXPANSION				
FD FE	FLOOR DRAIN FLOW ELEMENT				
FF FG	FINISHED FLOOR OR FAR FACE FIBER GLASS				
FIT	FLOW INSTRUMENT AND TRANSMITTER				
FL, FLR	FLOOR				
FLG FM	FLANGE FLOW METER FILTER TO WASTE				
FTW FV	FLAP VALVE				
FV GAL GALV	FLAP VALVE GALLON GALVANIZE(D)				
FV GAL GALV GAS G.V.	FLAP VALVE GALLON GALVANIZE(D) NATURAL GAS GATE VALVE				
FV GAL GALV GAS G.V. G.V. & BOX H, HORIZ	FLAP VALVE GALLON GALVANIZE(D) NATURAL GAS				
FV GAL GALV GAS G.V. G.V. & BOX	FLAP VALVE GALLON GALVANIZE(D) NATURAL GAS GATE VALVE GATE VALVE AND BOX				
FV GAL GALV GAS G.V. G.V. & BOX H, HORIZ H.B.	FLAP VALVE GALLON GALVANIZE(D) NATURAL GAS GATE VALVE GATE VALVE AND BOX HORIZONTAL HOSE BIB				
FV GAL GALV GAS G.V. G.V. & BOX H, HORIZ H.B. HDG H-O-A HP HPS	FLAP VALVE GALLON GALVANIZE(D) NATURAL GAS GATE VALVE GATE VALVE AND BOX HORIZONTAL HOSE BIB HEAVY DUTY GRATING HAND-OFF-AUTOMATIC HIGH POINT HIGH PRESSURE SWITCH	SYMBOLS			
FV GAL GALV GAS G.V. G.V. & BOX H, HORIZ H.B. HDG H-O-A HP HPS I.D. JNT.	FLAP VALVE GALLON GALVANIZE(D) NATURAL GAS GATE VALVE GATE VALVE AND BOX HORIZONTAL HOSE BIB HEAVY DUTY GRATING HAND-OFF-AUTOMATIC HIGH POINT HIGH PRESSURE SWITCH INSIDE DIAMETER JOINT		TED SUDEACE ELEVATION		
FV GAL GALV GAS G.V. G.V. & BOX H, HORIZ H.B. HDG H-O-A HP HPS I.D. JNT. L.L.V. L.L.H.	FLAP VALVE GALLON GALVANIZE(D) NATURAL GAS GATE VALVE GATE VALVE AND BOX HORIZONTAL HOSE BIB HEAVY DUTY GRATING HAND-OFF-AUTOMATIC HIGH POINT HIGH PRESSURE SWITCH INSIDE DIAMETER JOINT LONG LEG VERTICAL LONG LEG HORIZONTAL		TER SURFACE ELEVATION		
FV GAL GALV GAS G.V. G.V. & BOX H, HORIZ H.B. HDG H-O-A HP HPS I.D. JNT. L.L.V. L.L.H. LONGIT. L.P.	FLAP VALVE GALLON GALVANIZE(D) NATURAL GAS GATE VALVE GATE VALVE AND BOX HORIZONTAL HOSE BIB HEAVY DUTY GRATING HAND-OFF-AUTOMATIC HIGH POINT HIGH PRESSURE SWITCH INSIDE DIAMETER JOINT LONG LEG VERTICAL LONG LEG HORIZONTAL LONG IEG HORIZONTAL LONGITUDINAL LOW POINT	WA	TER SURFACE ELEVATION		
FV GAL GALV GAS G.V. G.V. & BOX H, HORIZ H.B. HDG H-O-A HP HPS I.D. JNT. L.L.V. L.L.H. LONGIT. L.P. LPS LYR.	FLAP VALVE GALLON GALVANIZE(D) NATURAL GAS GATE VALVE GATE VALVE GATE VALVE AND BOX HORIZONTAL HOSE BIB HEAVY DUTY GRATING HAND-OFF-AUTOMATIC HIGH POINT HIGH PRESSURE SWITCH INSIDE DIAMETER JOINT LONG LEG VERTICAL LONG LEG HORIZONTAL LONG LEG HORIZONTAL LONGITUDINAL LOW POINT LOW PRESSURE SWITCH LAYER/LAYERS	WA			
FV GAL GALV GAS G.V. G.V. & BOX H, HORIZ H.B. HDG H-O-A HP HPS I.D. JNT. L.L.V. L.L.H. LONGIT. L.P. LPS LYR. MAT'L. MAX.	FLAP VALVE GALLON GALVANIZE(D) NATURAL GAS GATE VALVE GATE VALVE AND BOX HORIZONTAL HOSE BIB HEAVY DUTY GRATING HAND-OFF-AUTOMATIC HIGH POINT HIGH PRESSURE SWITCH INSIDE DIAMETER JOINT LONG LEG VERTICAL LONG LEG VERTICAL LONG LEG HORIZONTAL LONG ITUDINAL LOW POINT LOW PRESSURE SWITCH LAYER/LAYERS MATERIAL MAXIMUM	→ WA → DIR Ø <sub>PP</sub> PO			
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FV GAL GALV GAS G.V. G.V. & BOX H, HORIZ H.B. HDG H-O-A HP HPS I.D. JNT. L.L.V. L.L.H. LONGIT. L.P. LPS LYR. MAT'L. MAX. MACH.	FLAP VALVE GALLON GALVANIZE(D) NATURAL GAS GATE VALVE GATE VALVE AND BOX HORIZONTAL HOSE BIB HEAVY DUTY GRATING HAND-OFF-AUTOMATIC HIGH POINT HIGH PRESSURE SWITCH INSIDE DIAMETER JOINT LONG LEG VERTICAL LONG LEG VERTICAL LONG LEG HORIZONTAL LOW POINT LOW PRESSURE SWITCH LAYER/LAYERS MATERIAL MAXIMUM MACHINE/MACHINERY	→ WA → DIR Ø <sub>PP</sub> PO	ECTION OF FLOW		
FV GAL GALV GAS GAV. GAS G.V. G.V. & BOX H, HORIZ H.B. HDG H-O-A HP HPS I.D. JNT. L.LV. L.L.H. LONGIT. L.P. LPS LYR. MAT'L. MAX. MACH. MECH. MFGR. M.H. MID.	FLAP VALVE GALLON GALVANIZE(D) NATURAL GAS GATE VALVE GATE VALVE AND BOX HORIZONTAL HOSE BIB HEAVY DUTY GRATING HAND-OFF-AUTOMATIC HIGH POINT HIGH PRESSURE SWITCH INSIDE DIAMETER JOINT LONG LEG VERTICAL LONG LEG VERTICAL LONG LEG HORIZONTAL LONGITUDINAL LOW POINT LOW PRESSURE SWITCH LAYER/LAYERS MATERIAL MAXIMUM MACHINE/MACHINERY MECHANICAL MANUFACTURER/MANUFACTURING MANHOLE MIDDLE/MID POINT	→ WA → DIF Ø <sub>PP</sub> PO Ø <sub>UP</sub> UT	ECTION OF FLOW WER POLE ILITY POLE		
FV GAL GALV GAS GAV. GAS G.V. & BOX H, HORIZ H.B. HDG H-O-A HP HPS I.D. JNT. L.L.V. L.L.H. LONGIT. L.P. LPS LYR. MAT'L. MAX. MACH. MFGR. M.H. MID. MIN. MTL.	FLAP VALVE GALLON GALVANIZE(D) NATURAL GAS GATE VALVE GATE VALVE AND BOX HORIZONTAL HOSE BIB HEAVY DUTY GRATING HAND-OFF-AUTOMATIC HIGH POINT HIGH PRESSURE SWITCH INSIDE DIAMETER JOINT LONG LEG VERTICAL LONG LEG VERTICAL LONG LEG HORIZONTAL LON POINT LOW PRESSURE SWITCH LAYER/LAYERS MATERIAL MAXIMUM MACHINE/MACHINERY MECHANICAL MANUFACTURER/MANUFACTURING MANHOLE MIDDLE/MID POINT MINIMUM METAL	$ \begin{array}{c} \bullet \\ \bullet \\ \bullet \\ \end{array} \end{array} \\ \begin{array}{c} \bullet \\ \bullet \\ \bullet \\ \end{array} \\ \begin{array}{c} \bullet \\ \bullet $	ECTION OF FLOW		
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FV GAL GALV GAS GAV. GAS G.V. & BOX H, HORIZ H.B. HDG H-O-A HP HPS I.D. JNT. L.L.V. L.L.H. LONGIT. L.P. LPS LYR. MAT'L. MAX. MACH. MECH. MFGR. M.H. MID. MIN. MTL. MJ NEC. N.F. N.I.C.	FLAP VALVE GALLON GALVANIZE(D) NATURAL GAS GATE VALVE GATE VALVE AND BOX HORIZONTAL HOSE BIB HEAVY DUTY GRATING HAND-OFF-AUTOMATIC HIGH POINT HIGH PRESSURE SWITCH INSIDE DIAMETER JOINT LONG LEG VERTICAL LONG LEG VERTICAL LONG IEG HORIZONTAL LOW POINT LOW PRESSURE SWITCH LAYER/LAYERS MATERIAL MAXIMUM MACHINE/MACHINERY MECHANICAL MANUFACTURER/MANUFACTURING MANHOLE MIDDLE/MID POINT MINIMUM METAL MECHANICAL JOINT NECESSARY NEAR FACE NOT IN CONTRACT	$\begin{array}{c} \bullet \\ \bullet $	ECTION OF FLOW WER POLE ILITY POLE GHT POLE		
FV GAL GALV GAS GAV. GAS G.V. & BOX H, HORIZ H.B. HDG H-O-A HP HPS I.D. JNT. L.L.V. L.L.H. LONGIT. L.P. LPS LYR. MAT'L. MAX. MACH. MECH. MFGR. M.H. MID. MIN. MIN. MTL. MJ NEC. N.F. N.I.C. NPT NPW	FLAP VALVE GALLON GALVANIZE(D) NATURAL GAS GATE VALVE GATE VALVE AND BOX HORIZONTAL HOSE BIB HEAVY DUTY GRATING HAND-OFF-AUTOMATIC HIGH POINT HIGH PRESSURE SWITCH INSIDE DIAMETER JOINT LONG LEG VERTICAL LONG LEG HORIZONTAL LONG IEG HORIZONTAL LOW POINT LOW PRESSURE SWITCH LAYER/LAYERS MATERIAL MAXIMUM MACHINE/MACHINERY MECHANICAL MANUFACTURER/MANUFACTURING MANHOLE MIDDLE/MID POINT MINIMUM METAL MECHANICAL JOINT NECESSARY NEAR FACE NOT IN CONTRACT NATIONAL PIPE THREAD NON POTABLE WATER	$\begin{array}{c} \checkmark \\ \blacksquare \\$	ECTION OF FLOW WER POLE ILITY POLE GHT POLE		
FV GAL GAL GALV GAS G.V. G.V. & BOX H, HORIZ H.B. HDG H-O-A HP HPS I.D. JNT. L.L.V. L.L.H. LONGIT. L.P. LYR. MAT'L. MAX. MACH. MECH. MFGR. M.H. MID. MIN. MIN. MIN. MIN. MIN. MIN. MTL. NPT NPW N.T.S. O.D.	FLAP VALVE GALLON GALVANIZE(D) NATURAL GAS GATE VALVE GATE VALVE AND BOX HORIZONTAL HOSE BIB HEAVY DUTY GRATING HAND-OFF-AUTOMATIC HIGH POINT HIGH PRESSURE SWITCH INSIDE DIAMETER JOINT LONG LEG VERTICAL LONG LEG VERTICAL LONG LEG HORIZONTAL LOW POINT LOW PRESSURE SWITCH LAYER/LAYERS MATERIAL MAXIMUM MACHINE/MACHINERY MECHANICAL MANUFACTURER/MANUFACTURING MANHOLE MIDDLE/MID POINT MINIMUM METAL MECHANICAL JOINT NECESSARY NEAR FACE NOT IN CONTRACT NATIONAL PIPE THREAD NON POTABLE WATER NOT TO SCALE OUTSIDE DIAMETER	$\begin{array}{c} \checkmark \\ \blacksquare \\$	ECTION OF FLOW WER POLE ILITY POLE GHT POLE RE HYDRANT RD HYDRANT		
FV GAL GAL GALV GAS G.V. G.V. & BOX H, HORIZ H.B. HDG H-O-A HP HPS I.D. JNT. L.L.V. L.L.H. LONGIT. L.P. LPS LYR. MAT'L. MAX. MACH. MECH. MFGR. M.H. MID. MIN. MTL. MJ NEC. N.F. N.I.C. NPT NPW N.T.S. O.D. O.F. OPNG.	FLAP VALVE GALLON GALVANIZE(D) NATURAL GAS GATE VALVE GATE VALVE AND BOX HORIZONTAL HOSE BIB HEAVY DUTY GRATING HAND-OFF-AUTOMATIC HIGH POINT HIGH PRESSURE SWITCH INSIDE DIAMETER JOINT LONG LEG VERTICAL LONG LEG HORIZONTAL LONG IEG HORIZONTAL LONG UEG HORIZONTAL LOW POINT LOW PRESSURE SWITCH LAYER/LAYERS MATERIAL MAXIMUM MACHINE/MACHINERY MECHANICAL MANUFACTURER/MANUFACTURING MANHOLE MIDDLE/MID POINT MINIMUM METAL MECHANICAL JOINT NECESSARY NEAR FACE NOT IN CONTRACT NATIONAL PIPE THREAD NON POTABLE WATER NOT TO SCALE OUTSIDE DIAMETER OUTSIDE DIAMETER OUTSIDE FACE OPENING	$\begin{array}{c} \checkmark \\ \blacksquare \\$	ECTION OF FLOW WER POLE ILITY POLE GHT POLE RE HYDRANT RD HYDRANT		
FV GAL GAL GALV GAS G.V. G.V. & BOX H, HORIZ H.B. HDG H-O-A HP HPS I.D. JNT. L.L.V. L.L.H. LONGIT. L.P. LP. LPS LYR. MAT'L. MAX. MACH. MECH. MFGR. M.H. MID. MIN. MTL. MJ NEC. N.F. N.I.C. NPT NPW N.T.S. O.D. O.F. OPNG. OR EQ. O.C. OR O/C	FLAP VALVE GALLON GALVANIZE(D) NATURAL GAS GATE VALVE GATE VALVE AND BOX HORIZONTAL HOSE BIB HEAVY DUTY GRATING HAND-OFF-AUTOMATIC HIGH POINT HIGH PRESSURE SWITCH INSIDE DIAMETER JOINT LONG LEG VERTICAL LONG LEG VERTICAL LONG LEG HORIZONTAL LONG LEG HORIZONTAL LOW POINT LOW PRESSURE SWITCH LAYER/LAYERS MATERIAL MAXIMUM MACHINE/MACHINERY MECHANICAL MANUFACTURER/MANUFACTURING MANHOLE MIDDLE/MID POINT MINIMUM METAL MECHANICAL JOINT NECESSARY NEAR FACE NOT IN CONTRACT NATIONAL PIPE THREAD NON POTABLE WATER NOT TO SCALE OUTSIDE DIAMETER OUTSIDE FACE OPENING OR EQUIVALENT ON CENTERS	$\begin{array}{c} \checkmark \\ \blacksquare \\$	ECTION OF FLOW WER POLE ILITY POLE GHT POLE RE HYDRANT RD HYDRANT		
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FV GAL GAL GALV GAS G.V. G.V. & BOX H, HORIZ H.B. HDG H-O-A HP HPS I.D. JNT. L.L.V. L.L.H. LONGIT. L.P. LPS LYR. MAT'L. MAX. MACH. MECH. MFGR. M.H. MID. MIN. MTL. MJ NEC. N.F. N.I.C. NPT NPW N.T.S. O.D. O.F. OPNG. OR EQ. O.C. OR O/C PD PE PERIM. pHE PIT P PRO.	FLAP VALVE GALLON GALVANIZE(D) NATURAL GAS GATE VALVE GATE VALVE AND BOX HORIZONTAL HOSE BIB HEAVY DUTY GRATING HAND-OFF-AUTOMATIC HIGH POINT HIGH POINT HIGH PRESSURE SWITCH INSIDE DIAMETER JOINT LONG LEG VERTICAL LONG LEG HORIZONTAL LONG LEG HORIZONTAL LOW POINT LOW PRESSURE SWITCH LAYER/LAYERS MATERIAL MAXIMUM MACHINE/MACHINERY MECHANICAL MANUFACTURER/MANUFACTURING MANHOLE MIDDLE/MID POINT MINIMUM METAL MECHANICAL JOINT NECESSARY NEAR FACE NOT IN CONTRACT NATIONAL PIPE THREAD NON POTABLE WATER NOT TO SCALE OUTSIDE DIAMETER OUTSIDE DIAMETER OUTSIDE FACE OPENING OR EQUIVALENT ON CENTERS PRESSURE TRANSDUCER ELEMENT PRESSURE INSTRUMENT ELEMENT PRESSURE INSTRUMENT ELEMENT PROPERTY LINE PROPOSED	$\begin{array}{c} \checkmark \\ \blacksquare \\$	ECTION OF FLOW WER POLE ILITY POLE GHT POLE RE HYDRANT RD HYDRANT		
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G	ENERAL NOTES	LOCATION MAP
1.	THE CONTRACTOR SHALL FIELD LOCATE EXISTING STRUCTURES AND PIPING AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES ENCOUNTERED BEFORE BEGINNING CONSTRUCTION OPERATIONS. SITE (YARD) PIPING LAYOUT OR DIMENSIONS, WHERE GIVEN, ARE TO SHOW THE ENGINEER'S INTENT AND TO AID THE CONTRACTOR IN PIPE INSTALLATION.	
2.	GENERALLY, THE LIMITS OF CONSTRUCTION SHALL BE AS NOTED. A WRITTEN REQUEST FOR ANY ADDITIONAL EASEMENTS OR ACCESS SHALL BE SUBMITTED BY THE CONTRACTOR TO THE OWNER PRIOR TO ANY CONSTRUCTION OPERATIONS.	GREEN
3.	DIMENSIONS OF EXISTING STRUCTURES AND/OR SITE RESTRICTIONS ARE APPROXIMATE. ALL NECESSARY DIMENSIONS AND ELEVATIONS OF EXISTING STRUCTURES & TOPOGRAPHY SHALL BE VERIFIED BY THE CONTRACTOR IN THE FIELD PRIOR TO BEGINNING CONSTRUCTION OPERATIONS.	
4.	GENERALLY, ALL EXISTING EQUIPMENT, PIPING VALVING, ETC., SHOWN TO BE REMOVED, SHALL, AFTER REMOVAL, BE DISPOSED OF BY THE CONTRACTOR UNLESS SHOWN OTHERWISE ON THESE DRAWINGS. CONTRACTOR SHALL CONSULT PLANT REPRESENTATIVE BEFORE DISPOSAL OF ANY ITEMS.	
5.	ALL WALL PENETRATIONS FOR PIPING SHALL CONFORM TO THE STANDARD DETAILS AS REQUIRED BY THE CONTRACT DRAWINGS AND SPECIFICATIONS UNLESS OTHERWISE NOTED.	
6.	ALL BURIED PIPES SHALL HAVE A MINIMUM OF 3'-6" OF COVER AS MEASURED VERTICALLY FROM FINISHED GRADE TO THE TOP OF PIPE, UNLESS OTHERWISE NOTED.	
7.	IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO WORK ALL APPLICABLE DRAWINGS AND THE APPROPRIATE SPECIFICATIONS AS A UNIT. ANY OMISSIONS, DELETIONS, OR CONFLICTS ARISING AS A RESULT OF FAILURE TO INCORPORATE ALL DRAWINGS AND SPECIFICATIONS THAT APPLY SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDED COST TO THE OWNER.	
8.	PIPE AND CONDUIT SUPPORTS ARE TYPICALLY NOT SHOWN. HOWEVER ALL PIPING, INSIDE AND OUTSIDE, SHALL BE ADEQUATELY SUPPORTED AND BLOCKED SO AS NOT TO PRODUCE UNDUE STRAIN OR VIBRATION ON PIPE JOINTS OR EQUIPMENT, SEE SPECIFICATIONS.	(103)
9.	ALL PIPING ABANDONED IN PLACE SHALL BE PROPERLY CAPPED OR PLUGGED AT EACH END AND RENDERED LEAKPROOF.	<sup>o</sup> Pickett
10.	EXACT LOCATIONS OF DUCTS, CONDUITS, LIGHT FIXTURES AND PIPES SHALL BE FIELD LOCATED AND COORDINATED WITH THE WORK OF SUBCONTRACTORS FOR THE VARIOUS TRADES INVOLVED.	Kettner
11.	ELECTRICAL AND INSTRUMENTATION SUBCONTRACTORS SHALL NOTIFY THE CONTRACTOR AND COORDINATE THE SIZES AND LOCATIONS OF ALL OPENINGS AND RECESSES IN STRUCTURES REQUIRED FOR THEIR WORK.	
12.	ALL EXISTING PAVING DISTURBED DURING CONSTRUCTION SHALL BE RENOVATED IN ACCORDANCE WITH STANDARD DETAILS.	
13.	CONTRACTOR SHALL FIELD LOCATE AND EXPOSE UTILITIES BEFORE INSTALLING PIPE OR CONDUITS.	PROFES DRESS AND Weed
14.	CONTRACTOR IS RESPONSIBLE FOR ALL DEWATERING, SHEET AND SHORING, REQUIRED FOR EXCAVATION AND SHALL SUBMIT PLANS STAMPED BY A LICENSED KY PROFESSIONAL ENGINEER PRIOR TO ANY EXCAVATION.	LOUE BINNIN BOOK
15.	ALL NON-POTABLE WATER OUTLETS WHERE READILY ACCESSIBLE TO PLANT EMPLOYEES USE SHALL BEAR THE FOLLOWING SIGN: "NON-POTABLE WATER - DO NOT DRINK"	Leatherway Control of the second
16.	THE CONTRACTOR SHALL SCHEDULE ALL WORK TO ALLOW PLANT OPERATION TO BE MAINTAINED THROUGHOUT CONSTRUCTION CONTRACT TIME PERIOD.	METCALFE
17.	EXTREME CARE SHALL BE TAKEN TO PROTECT UNDERGROUND PIPING AND UNDER SLAB PIPING FROM SURFACE LOADS EXERTED BY CONSTRUCTION EQUIPMENT (TRUCKS, LOADERS, CRANES, ETC.).	
18.	THE RENOVATION WILL BE ACCOMPLISHED IN PHASES, THEREFORE THE CONTRACTOR SHALL TAKE PRECAUTIONS TO PROTECT COMPLETED WORK FROM ONGOING RENOVATION WORK.	
19.	THE CONTRACTOR SHALL CONFIRM THE CONTENTS OF ANY AND ALL PIPING INVOLVED IN DEMOLITION	

UTILITIES	
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<u>ELECTRIC:</u> KENTUCKY UTILITIES 800-981-0600

WATER AND SEWER: CITY OF LANCASTER 859-792-2170

<u>GAS:</u> ATMOS ENERGY 866-322-8667

BUD - BEFORE YOU DIG 1-800-752-6007

#### NOTE:

BUD - Before You Dig 1-800-752-6007 or DIAL 811

#### IN ACCORDANCE WITH KENTUCKY STATE LAW, ANY ACTIVITY THAT RESULTS IN MOVEMENT, PLACEMENT, BORING, PROBING OR DIGGING IN OR ON THE GROUND SHALL CONTACT THE ONE CALL CENTER FOR UNDERGROUND UTILITY LOCATIONS.

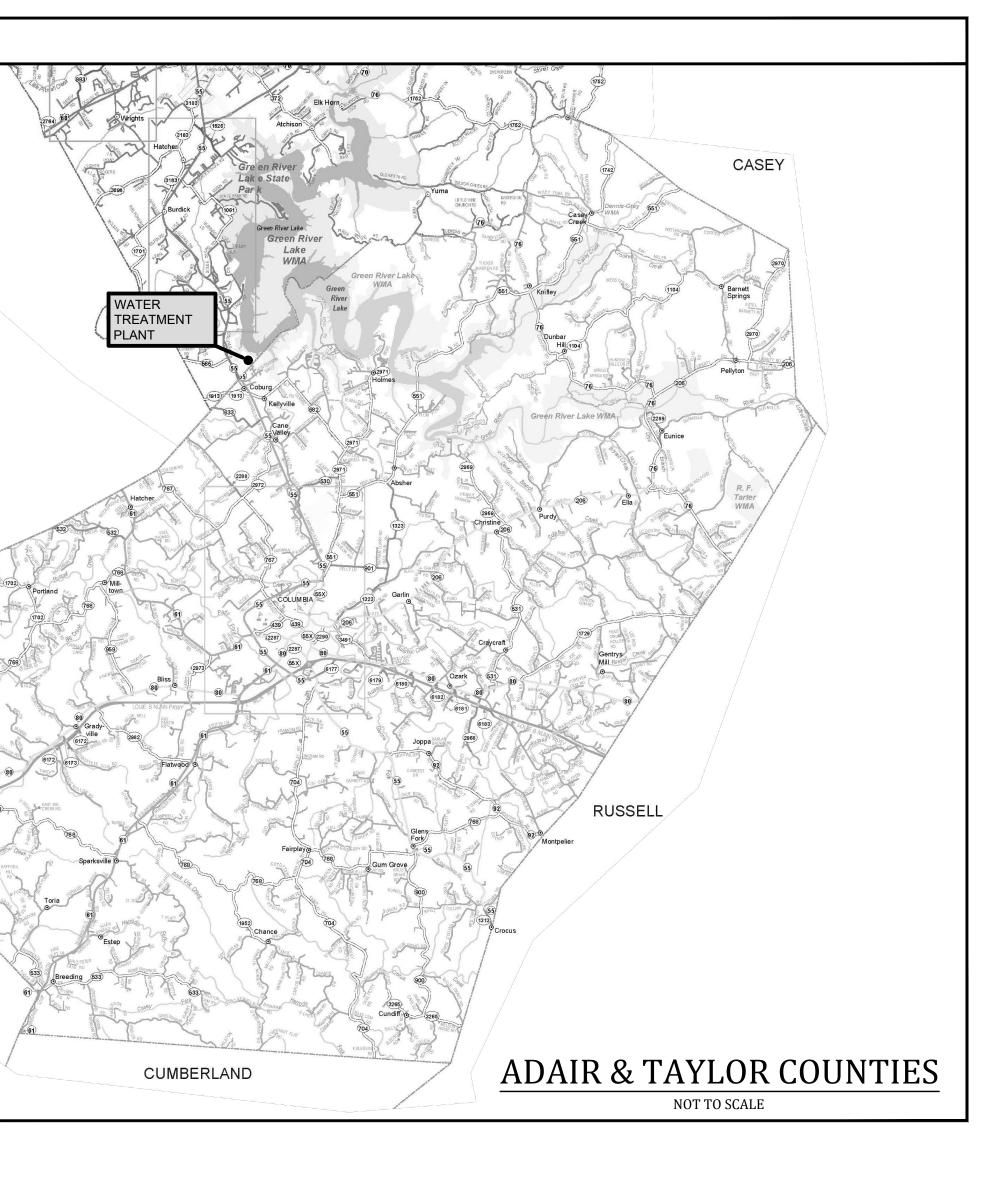
REQUIREMENTS AND PROVIDE AND WEAR SUITABLE PROTECTIVE CLOTHING, GLOVES AND EYE PROTECTION.

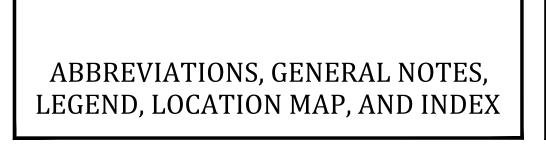
G-0-00	COVER
G-0-01	ABBREVIATIONS, GENERAL NOTES, LEGEND, LOCATION MAP, AND INDEX
C-0-01	SITE IDENTIFICATION PLAN
C-0-02	SITE PIPING PLAN
C-1-01	SEDIMENTATION BASIN DEMOLITION PLAN
C-1-02	SEDIMENTATION BASIN DEMOLITION SECTIONS
C-1-03	SEDIMENTATION BASIN DEMOLITION SECTION
C-1-04	SEDIMENTATION BASIN MODIFICATION PLAN
C-1-05	SEDIMENTATION BASIN MODIFICATION SECTIONS
C-2-01	PLANTWORKS BUILDING DEMOLITION PLAN
C-2-02	PLANTWORKS BUILDING MODIFICATION PLAN & SCHEMATICS
C-2-03	PLANTWORKS BUILDING SCHEMATICS
C-3-01	SLUDGE PRESS BUILDING DEMOLITION PLAN
C-3-02	SLUDGE PRESS BUILDING MODIFICATION PLAN
SD-0-01	STANDARD DETAILS
SD-0-02	STANDARD DETAILS
SD-0-03	EROSION CONTROL DETAILS
E-0-01	ELECTRICAL SYMBOLS, ABBREVIATIONS, AND SCHEDULES
E-0-02	ELECTRICAL DETAILS
E-0-03	ELECTRICAL SITE PLAN
E-1-01	SEDIMENTATION BASIN ELECTRICAL PLAN - NEW WORK
E-2-01	PLANTWORKS BLDG ELECTRICAL PLAN - DEMOLITION
E-2-02	PLANTWORKS BLDG ELECTRICAL PLAN - NEW WORK
E-3-01	SLUDGE BELT PRESS ELECTRICAL DEMOLITION & NEW WORK PLANS
I-0-01	INSTRUMENTATION DETAILS, ABBREVIATIONS, AND SCHEDULES
I-0-02	SCADA I/O TABLE - EXISTING SIGNALS
I-0-03	SCADA NETWORK ARCHITECTURE

INDEX OF DRAWINGS



CONTRACT No. 1 PHASE 23 WTP AND SYSTEM IMPROVEMENTS FOR THE COLUMBIA-ADAIR UTILITIES DISTRICT

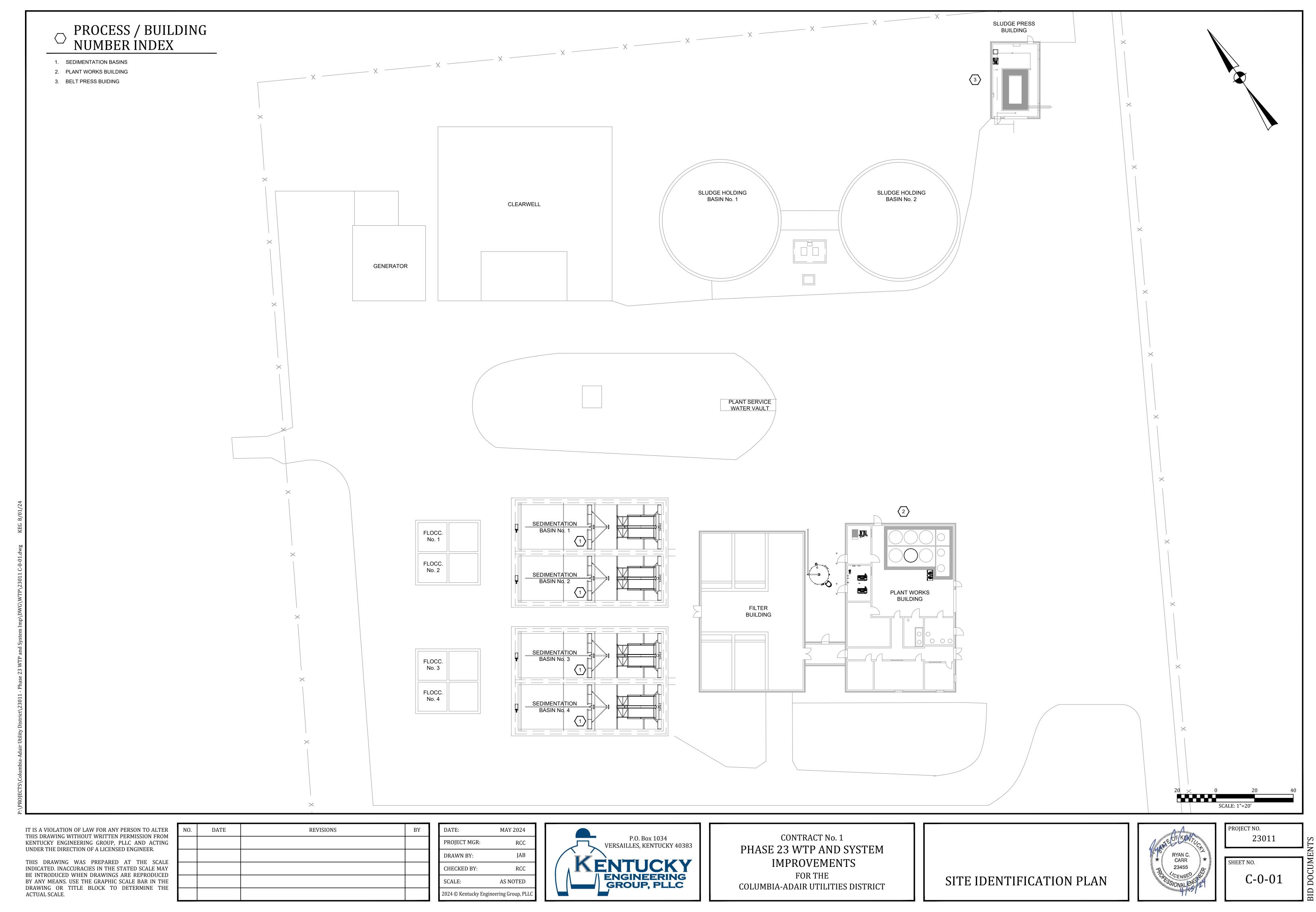




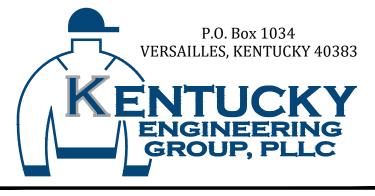


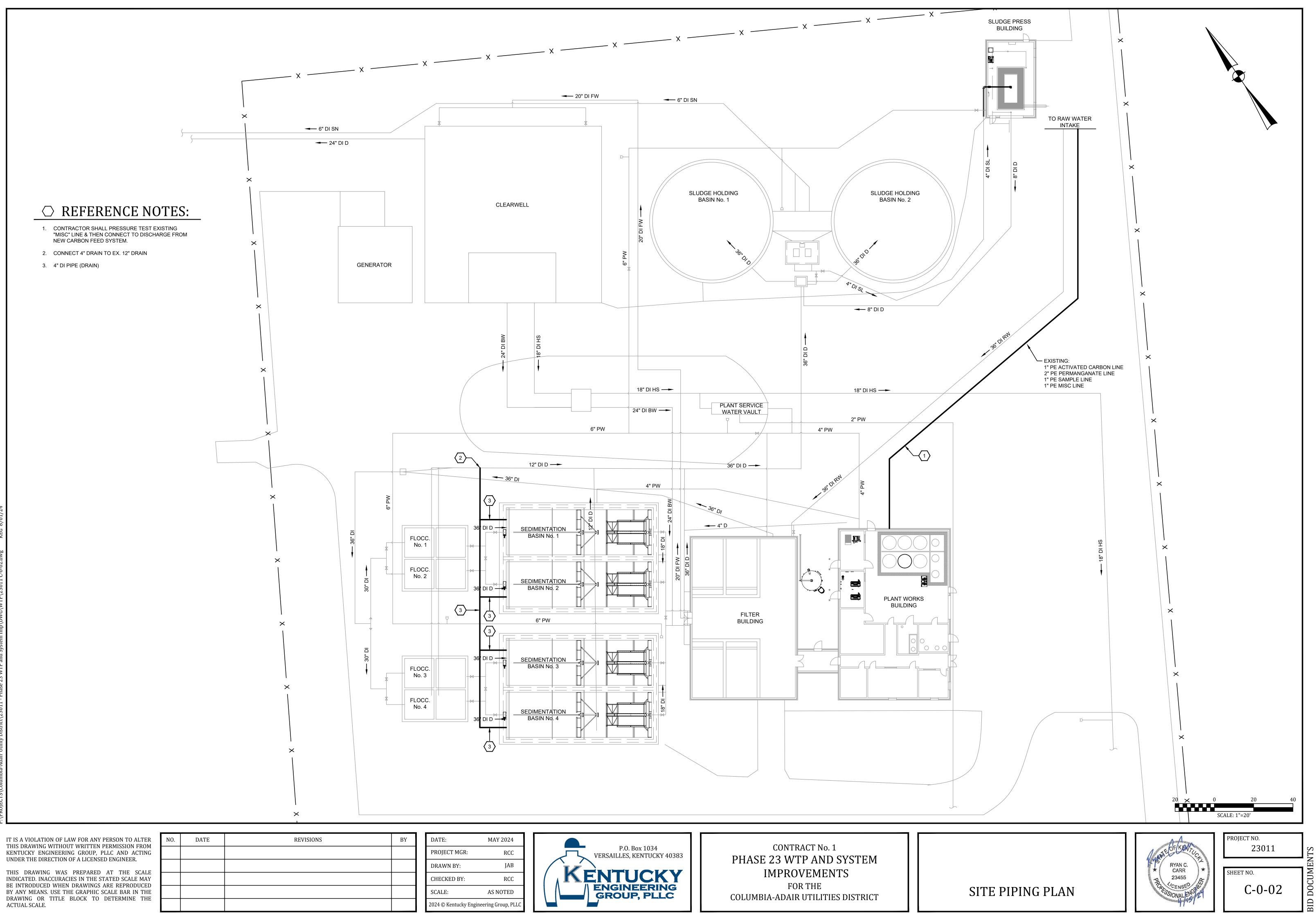
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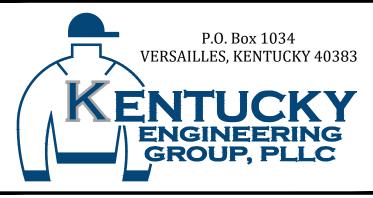


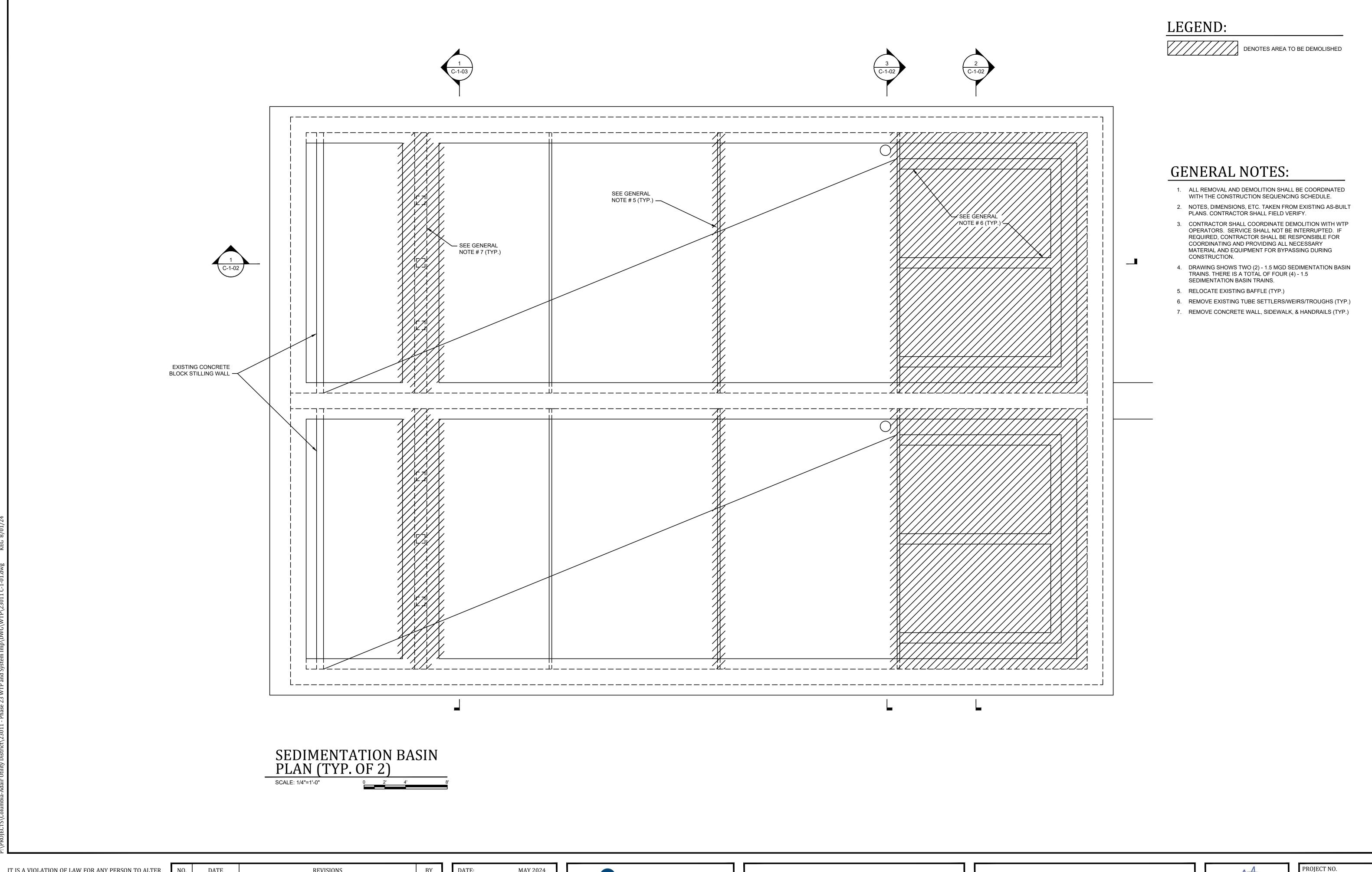
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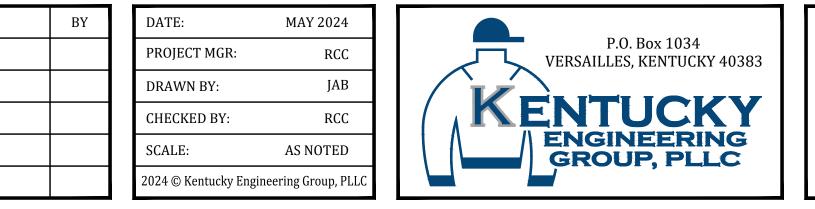
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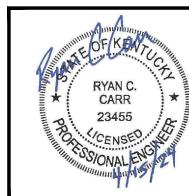
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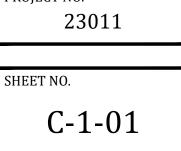
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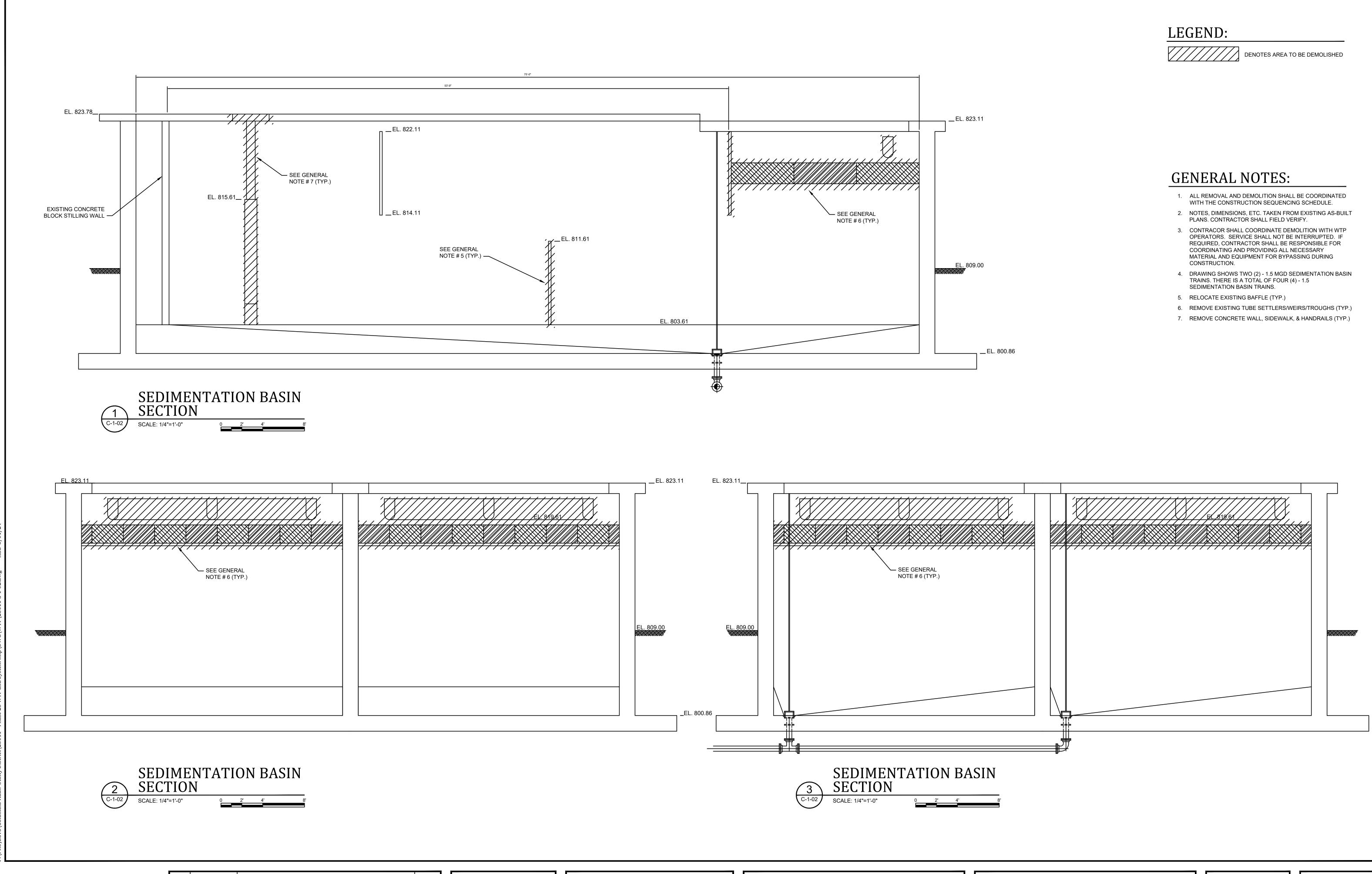


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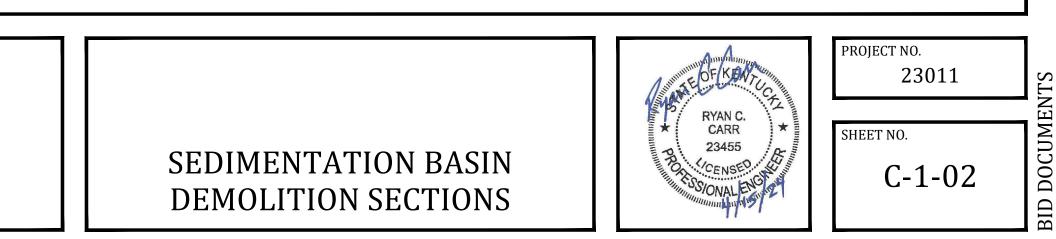


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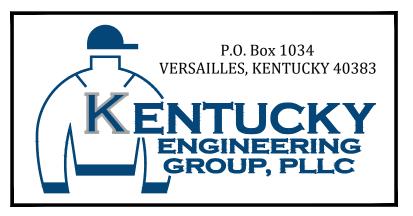


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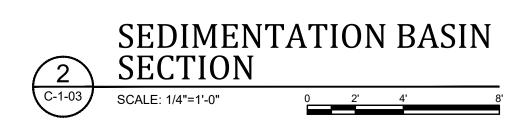


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NOTE # 7 (TYP.)
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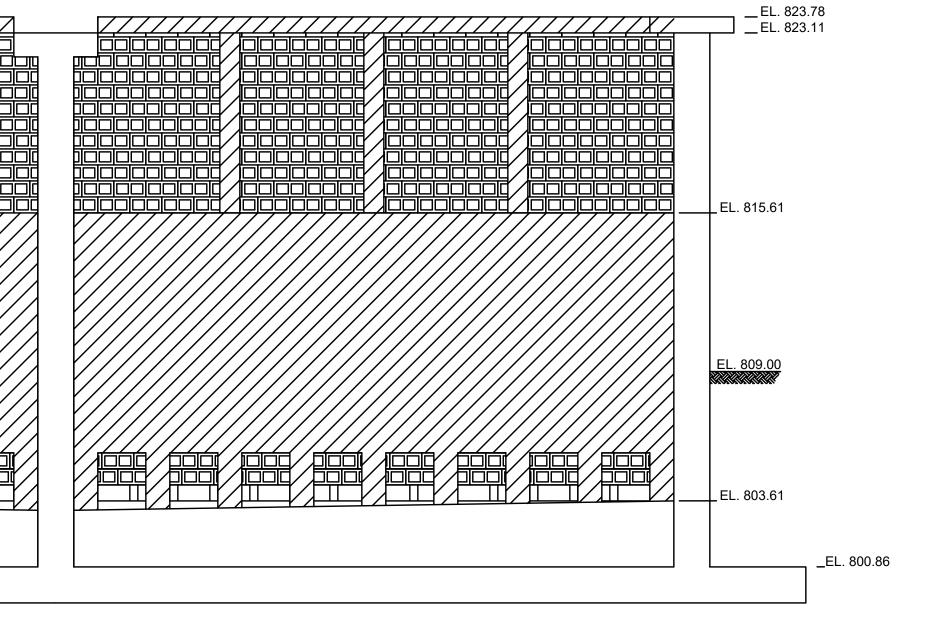
EXISTING CONCRETE BLOCK STILLING WALL -

#### LEGEND:

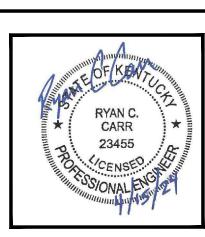
DENOTES AREA TO BE DEMOLISHED

### **GENERAL NOTES:**

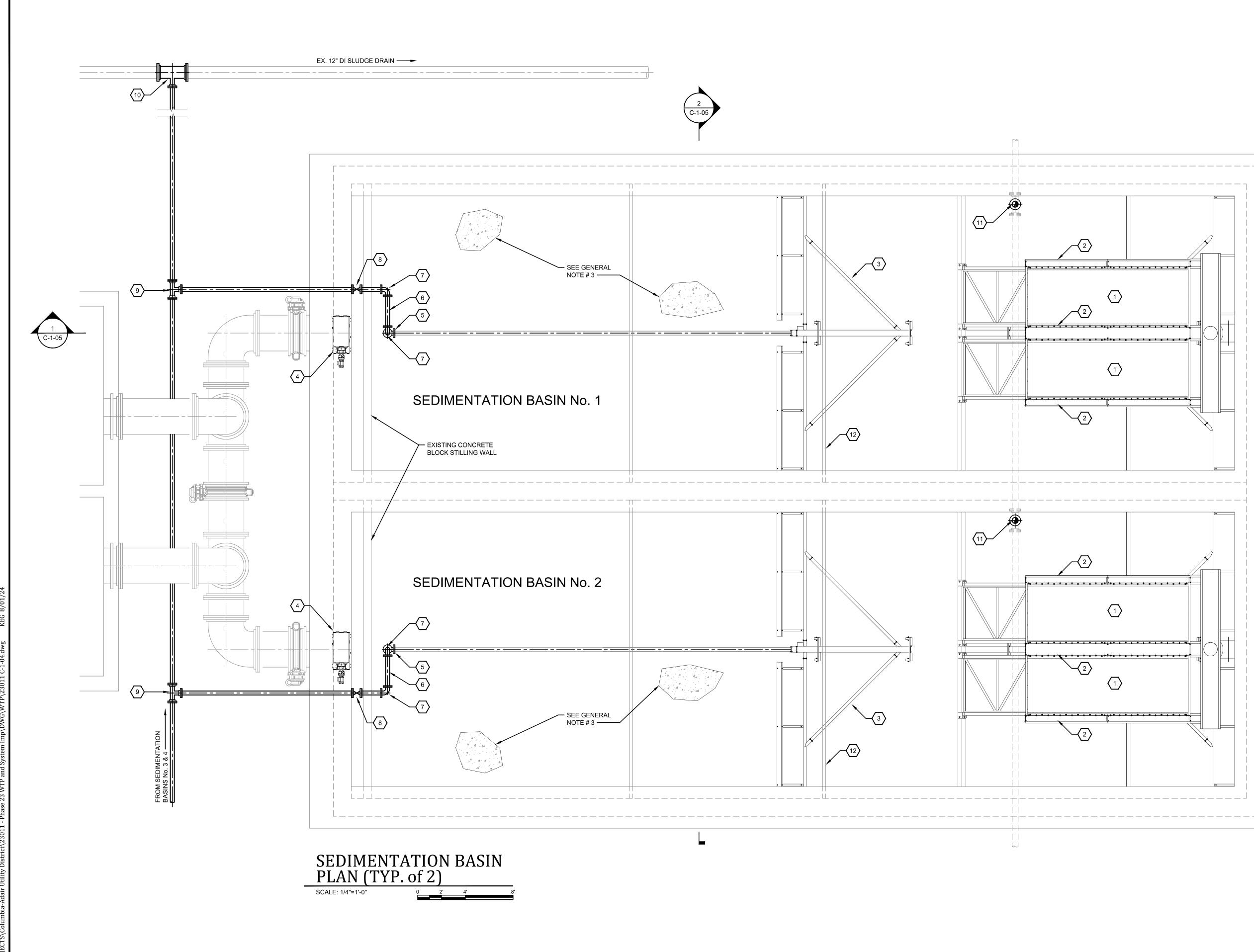
- 1. ALL REMOVAL AND DEMOLITION SHALL BE COORDINATED WITH THE CONSTRUCTION SEQUENCING SCHEDULE.
- 2. NOTES, DIMENSIONS, ETC. TAKEN FROM EXISTING AS-BUILT PLANS. CONTRACTOR SHALL FIELD VERIFY. 3. CONTRACOR SHALL COORDINATE DEMOLITION WITH WTP
- OPERATORS. SERVICE SHALL NOT BE INTERRUPTED. IF REQUIRED, CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING AND PROVIDING ALL NECESSARY MATERIAL AND EQUIPMENT FOR BYPASSING DURING CONSTRUCTION.
- 4. DRAWING SHOWS TWO (2) 1.5 MGD SEDIMENTATION BASIN TRAINS. THERE IS A TOTAL OF FOUR (4) - 1.5 SEDIMENTATION BASIN TRAINS.
- 5. REMOVE EXISTING BAFFLES (TYP.)
- 6. REMOVE EXISTING TUBE SETTLERS/WEIRS/TROUGHS (TYP.)
- 7. REMOVE CONCRETE WALL, SIDEWALK, & HANDRAILS (TYP.)







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#### **GENERAL NOTES:**

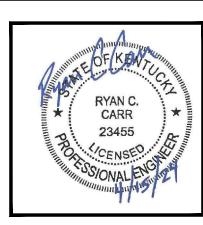
- 1. ALL PIPING SHALL BE RESTRAINT JOINT.
- 2. ALL WORK ASSOCIATED WITH THE SLUDGE REMOVAL SYSTEM INCLUDING, PIPING, GROUT FILLING SEDIMENTATION BASINS, DEMO EXISTING CONCRETE WALLS/SIDEWALKS, SHALL BE CONSIDERED AS ADDITIVE ALTERNATE No. 1.
- 3. CONTRACTOR SHALL GROUT FILL TO LEVEL BASINS AS REQUIRED BY SLUDGE REMOVAL SYSTEM MANUFACTURER. (INCLUDED AS ADDITIVE ALTERNATE No. 1)

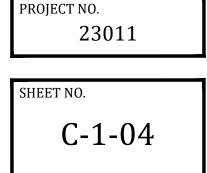
### $\bigcirc$ REFERENCE NOTES:

- 1. PLATE SETTLER
- 2. S.S. EFFLUENT TROUGH
- INCLUDED IN ADDITIVE ALTERNATE No. 1
- 3. SLUDGE VACUUM ASSEMBLY 4. SLUDGE VACUUM DRIVE
- 5. CONNECT TO SLUDGE REMOVAL SYSTEM PIPING
- 6. 4" DI PIPE
- 7. 4" DI 90° ELBOW
- 8. 4" PLUG VALVE W/ ELECTRIC MOTOR OPERATOR. ACTUATOR SUPPORT FACE MOUNTED TO WALL (TYP.)
- 9. 4" DI MJ TEE
- 10. 12" X 4" DI MJ TEE

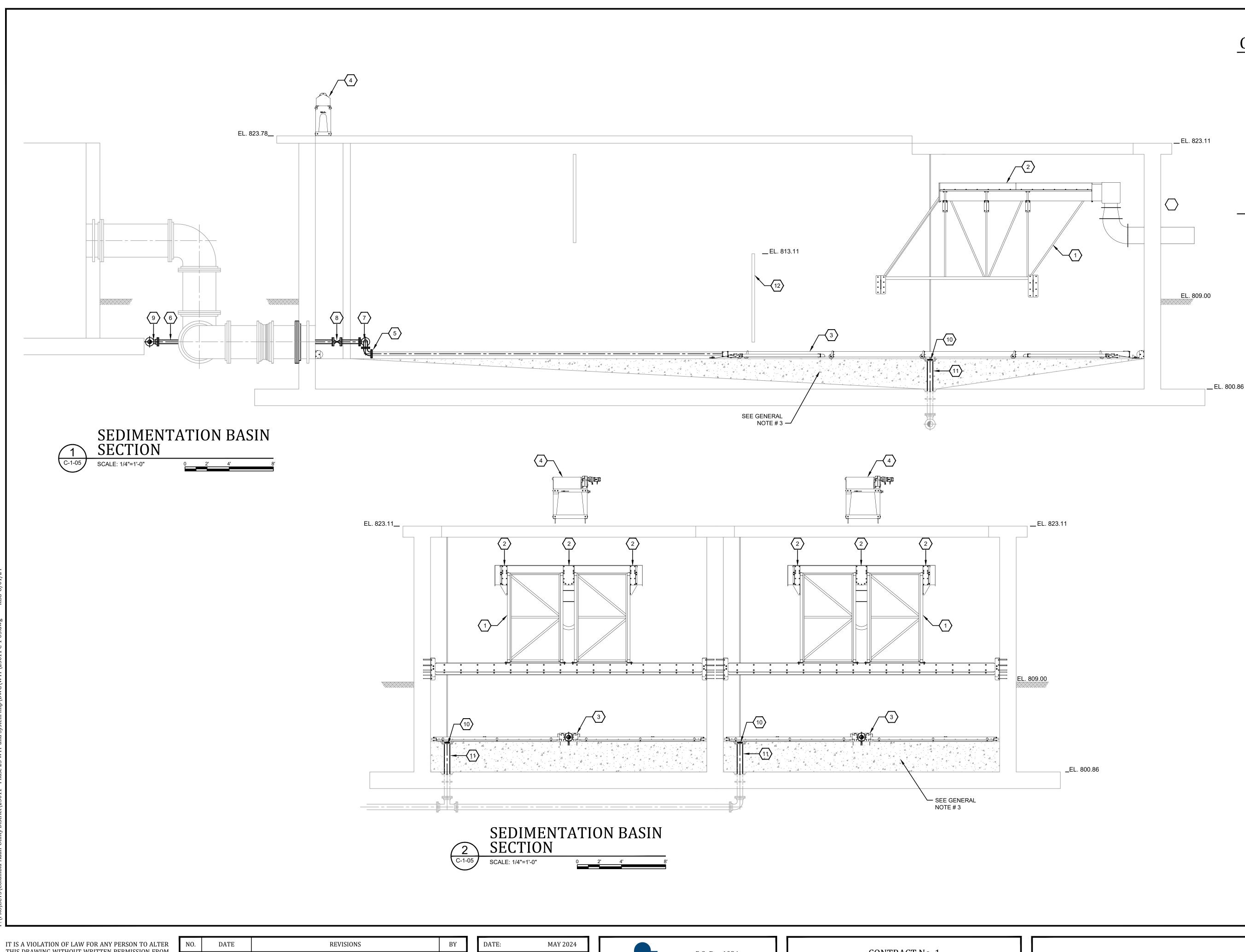
- 11. 6" MUD VALVE (RECESSED INTO GROUT)
- 12. RELOCATE EXISTING BAFFLE





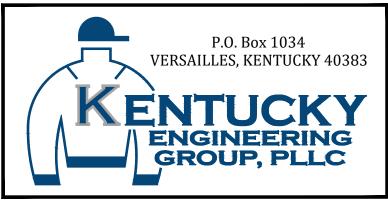


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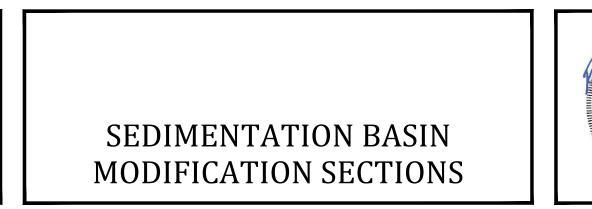
CONTRACT No. 1 PHASE 23 WTP AND SYSTEM IMPROVEMENTS FOR THE COLUMBIA-ADAIR UTILITIES DISTRICT

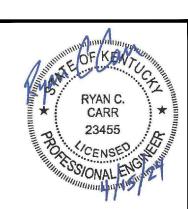
#### **GENERAL NOTES:**

- 1. ALL PIPING SHALL BE RESTRAINT JOINT.
- 2. ALL WORK ASSOCIATED WITH THE SLUDGE REMOVAL SYSTEM INCLUDING, PIPING, GROUT FILLING SEDIMENTATION BASINS, DEMO EXISTING CONCRETE WALLS/SIDEWALKS, SHALL BE CONSIDERED AS ADDITIVE ALTERNATE No. 1.
- CONTRACTOR SHALL GROUT FILL TO LEVEL BASINS AS REQUIRED BY SLUDGE REMOVAL SYSTEM MANUFACTURER. (INCLUDED AS ADDITIVE ALTERNATE №. 1)

#### **REFERENCE NOTES:**

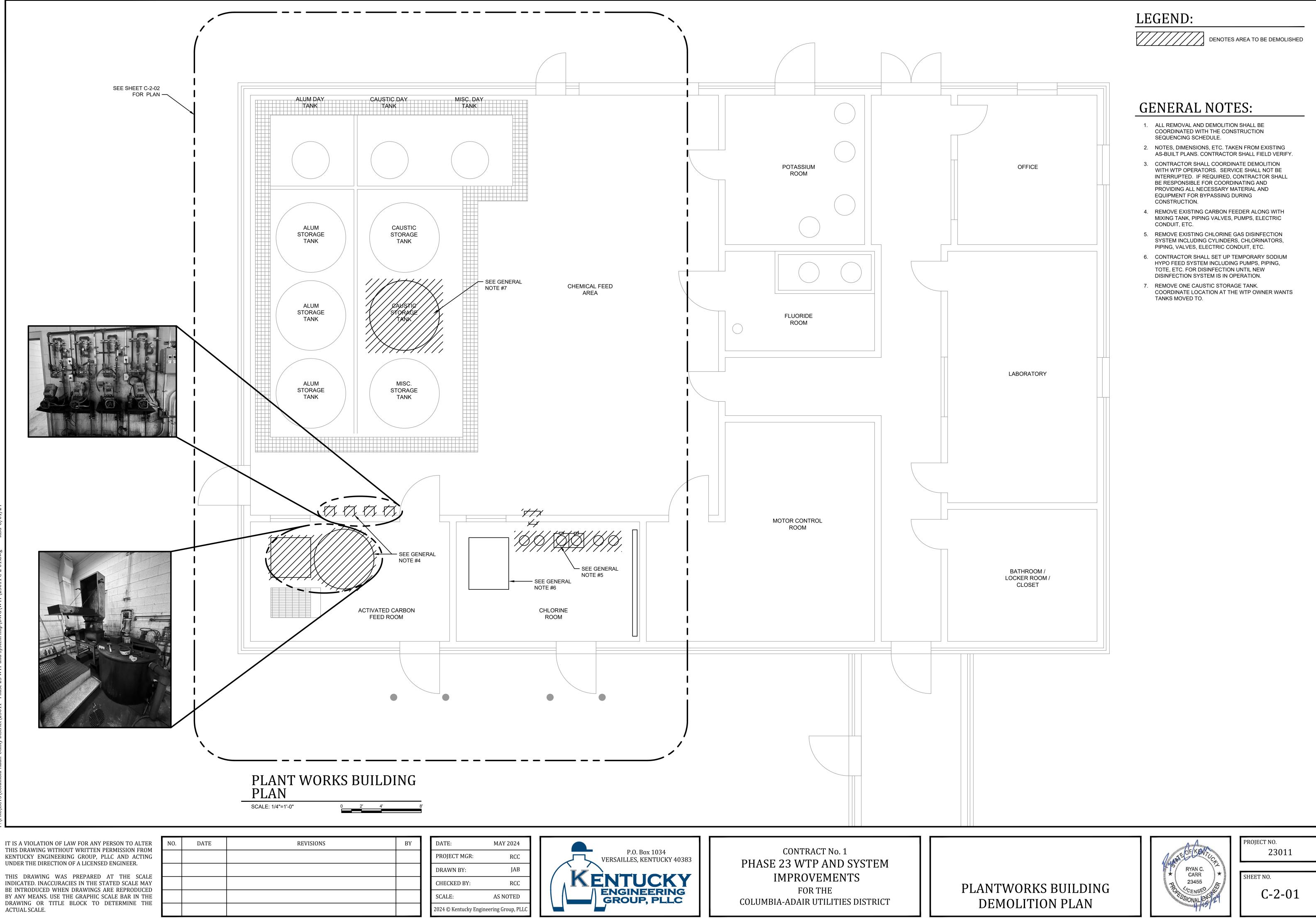
- 1. PLATE SETTLER
- 2. S.S. EFFLUENT TROUGH
- INCLUDED IN ADDITIVE ALTERNATE No. 1
- SLUDGE VACUUM ASSEMBLY
  SLUDGE VACUUM DRIVE
- 5. CONNECT TO SLUDGE REMOVAL SYSTEM PIPING
- 6. 4" DI PIPE
- 7. 4" DI 90° ELBOW
- 8. 4" PLUG VALVE W/ ELECTRIC MOTOR OPERATOR. ACTUATOR SUPPORT FACE MOUNTED TO WALL (TYP.)
- 9. 4" DI MJ TEE
- 10. 6" MUD VALVE (RECESSED INTO GROUT)
- 11. 6" DI PIPE
- 12. RELOCATE EXISTING BAFFLE





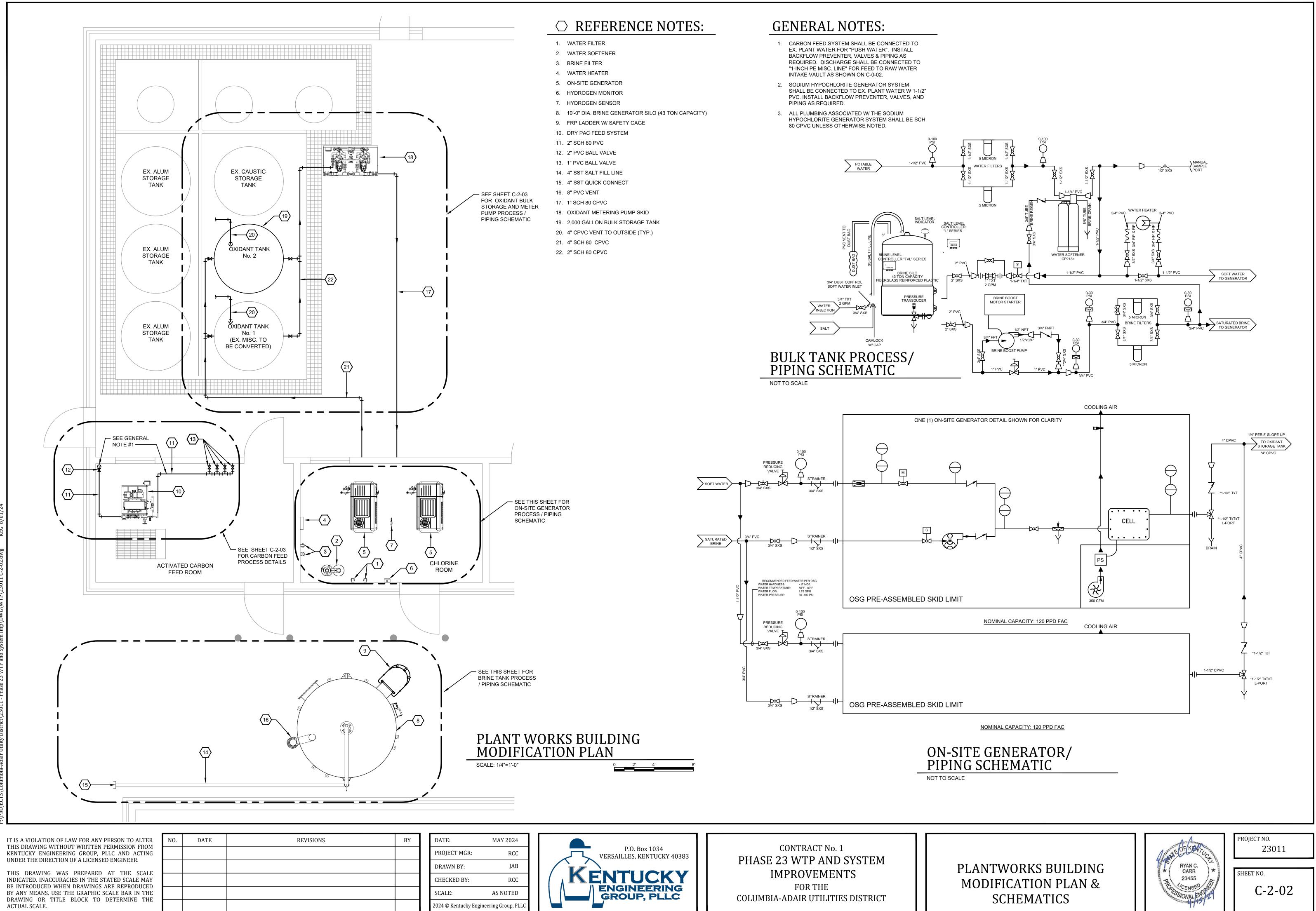
PROJECT NO.
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SHEET NO.
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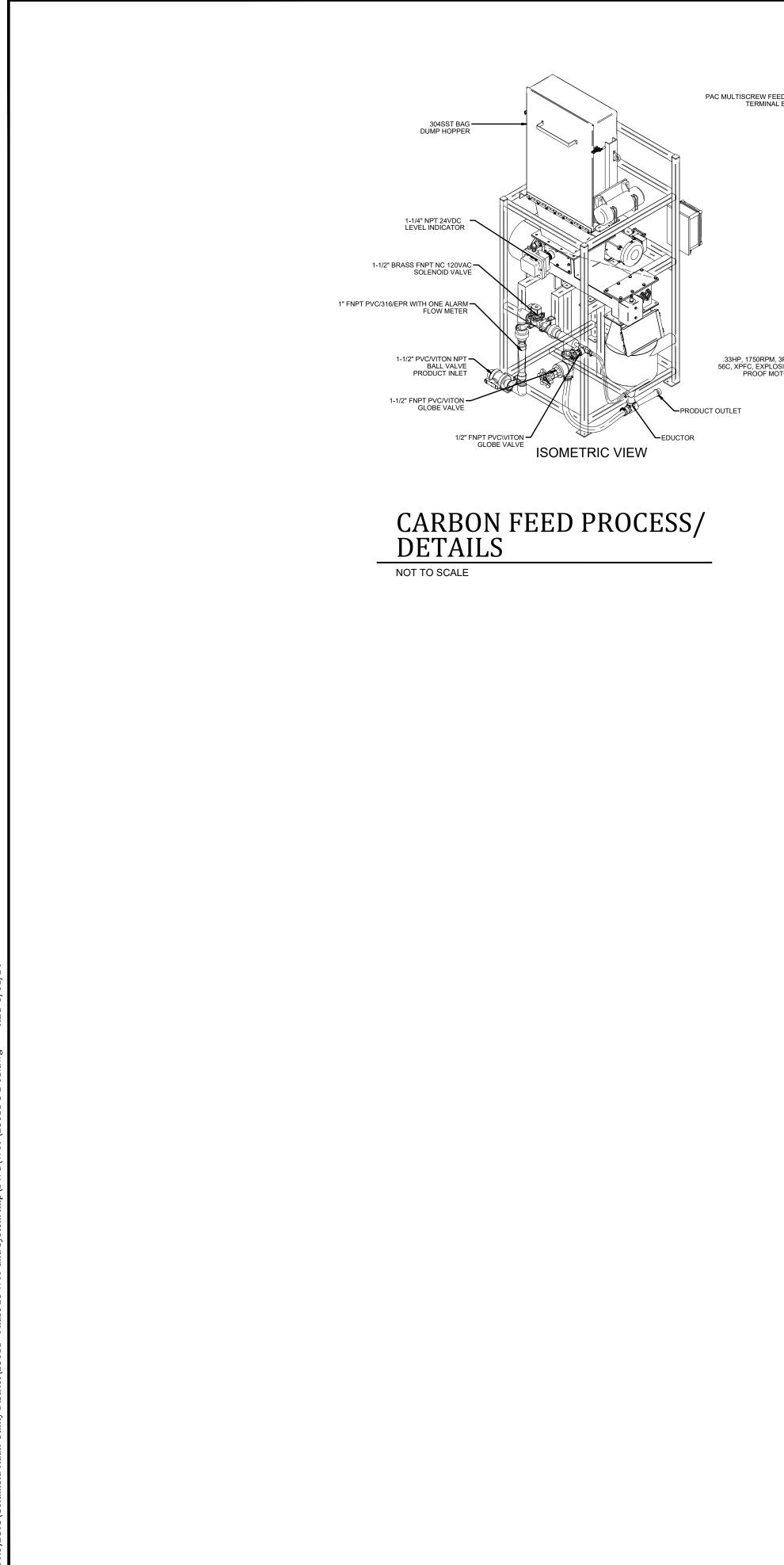
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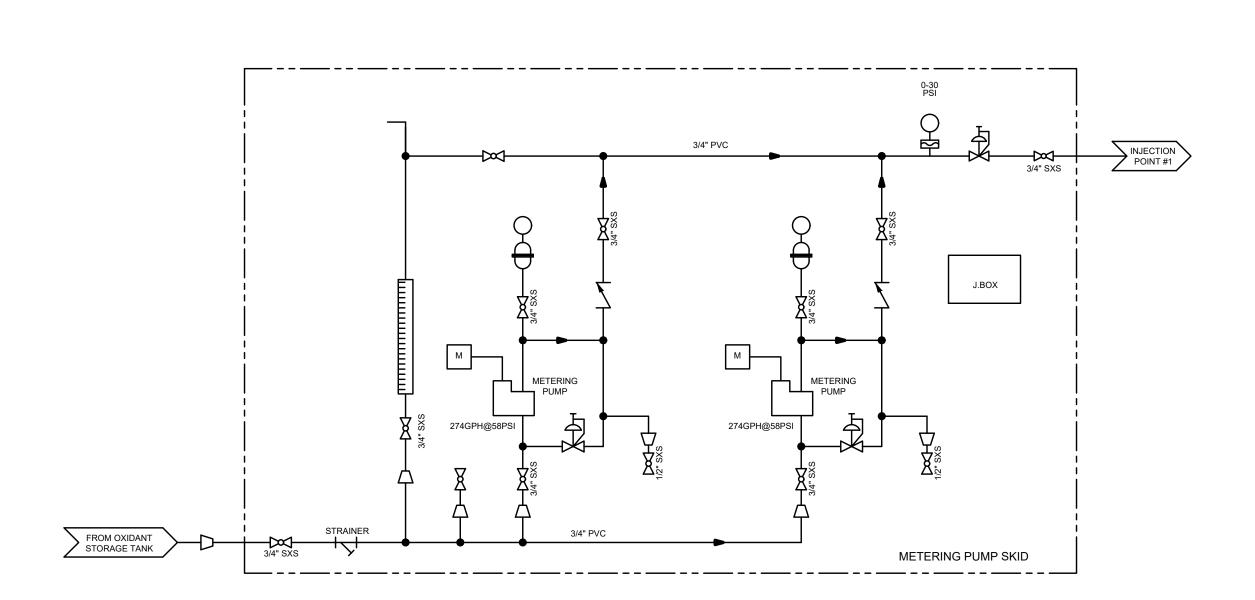
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NO.	DATE	REVISIONS	BY	DATE:	MAY 2024	
				PROJECT MGR:	RCC	P.O. Box 1034 VERSAILLES, KENTUCKY 40383
				DRAWN BY:	JAB	
				CHECKED BY:	RCC	<b>KENTUCKY</b>
				SCALE:	AS NOTED	ENGINEERING GROUP, PLLC
				2024 © Kentucky Eng	ineering Group, PLLC	

	*4" CPVC
EXPLOSION PROOF VIBRATOR	FROM GENERATOR 1/4" PER 8' SLOPE UP
SCREWFEEDER	4"
DISOLVER CONE	
	OXIDANT STORAGE TAN
A 3PH, OSION OTOR NOTES:	POLYETHYLEVE TANK VOLUME: 2,000 GALLON
1. ALL PIPING AND FITTINGS SHALL BE 1-1/2" & 1/2" SCH. 80 PVC SO WELD WITH VITON SEALS UNLESS OTHERWISE REQUIRED BY COMPONENTS.	ЭСКЕТ



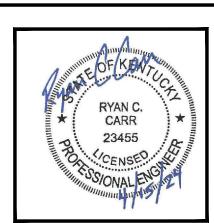


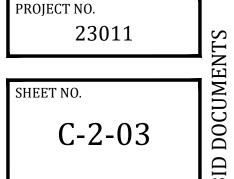


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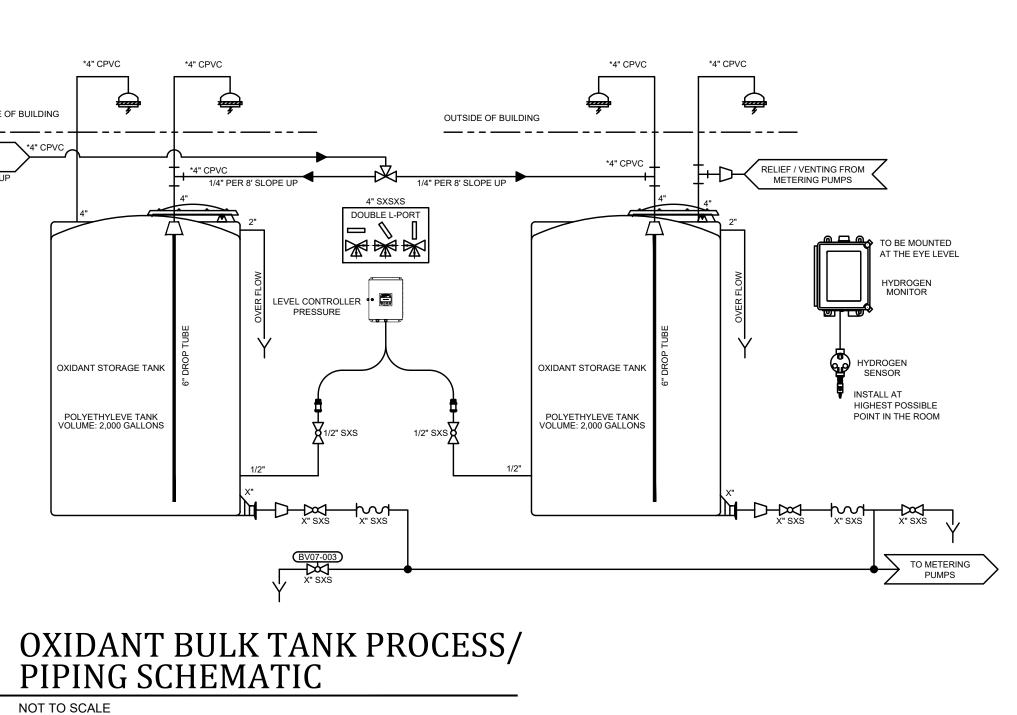
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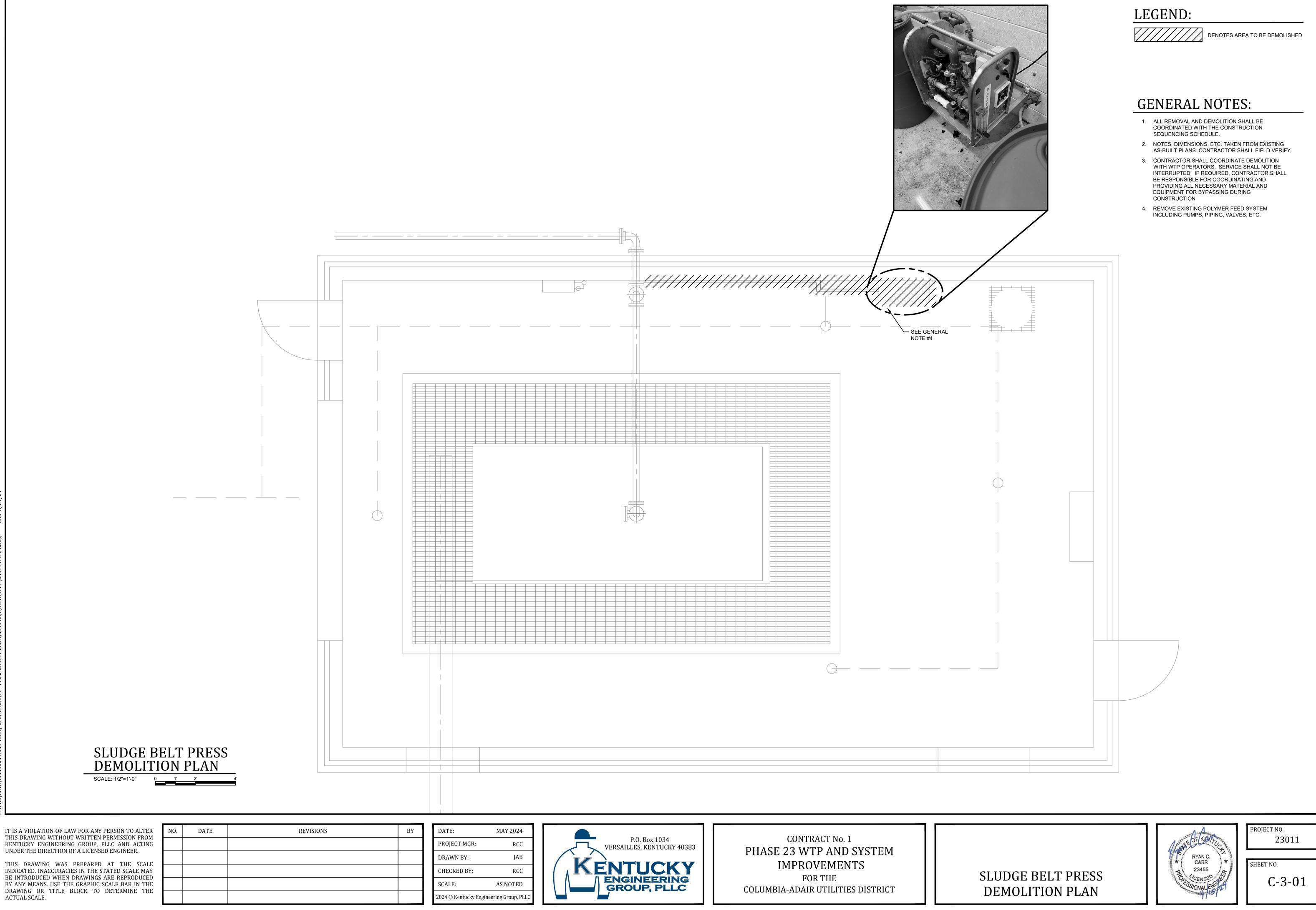
PLANTWORKS BUILDING SCHEMATICS





## METER PUMP PROCESS/ PIPING SCHEMATIC

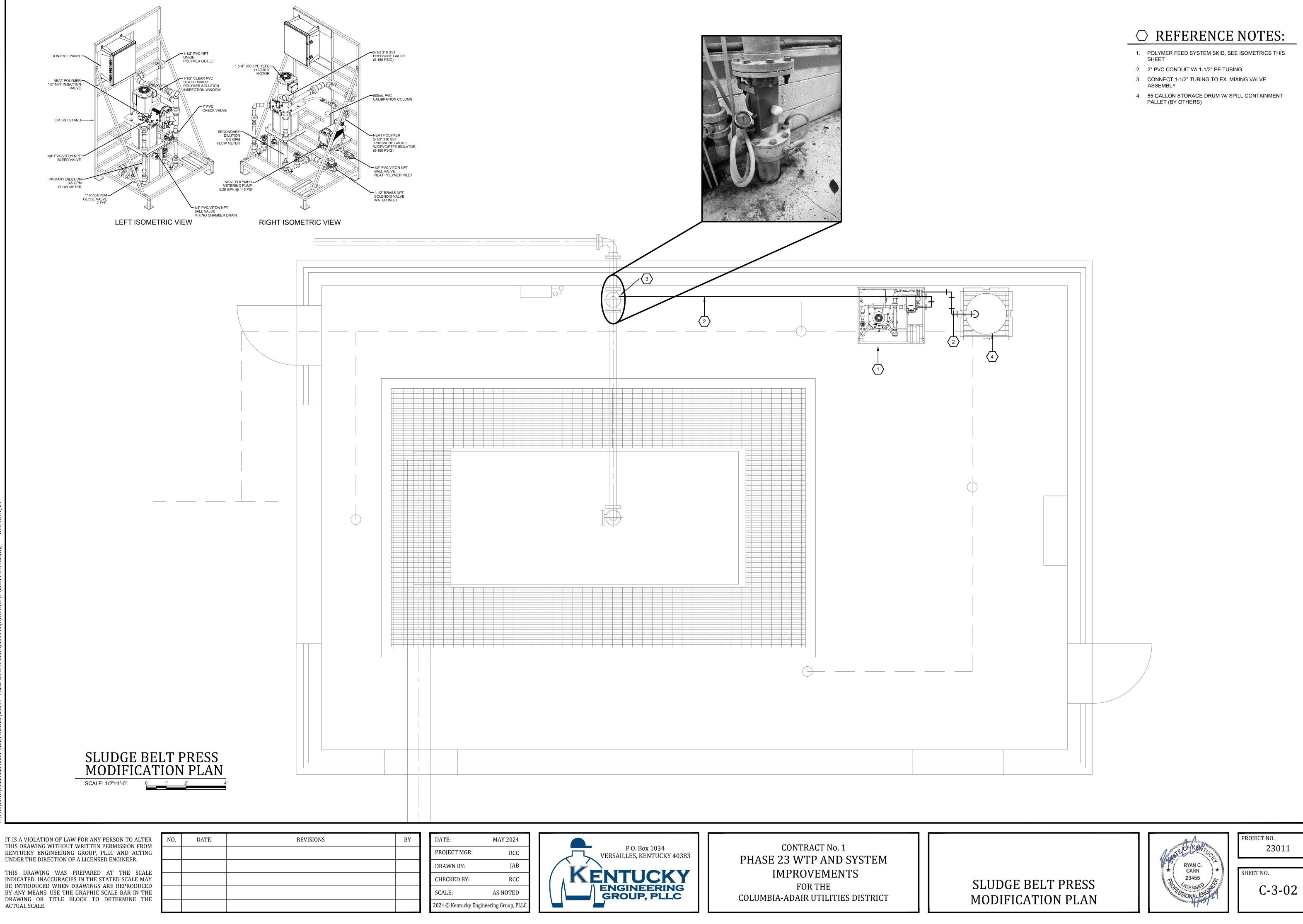




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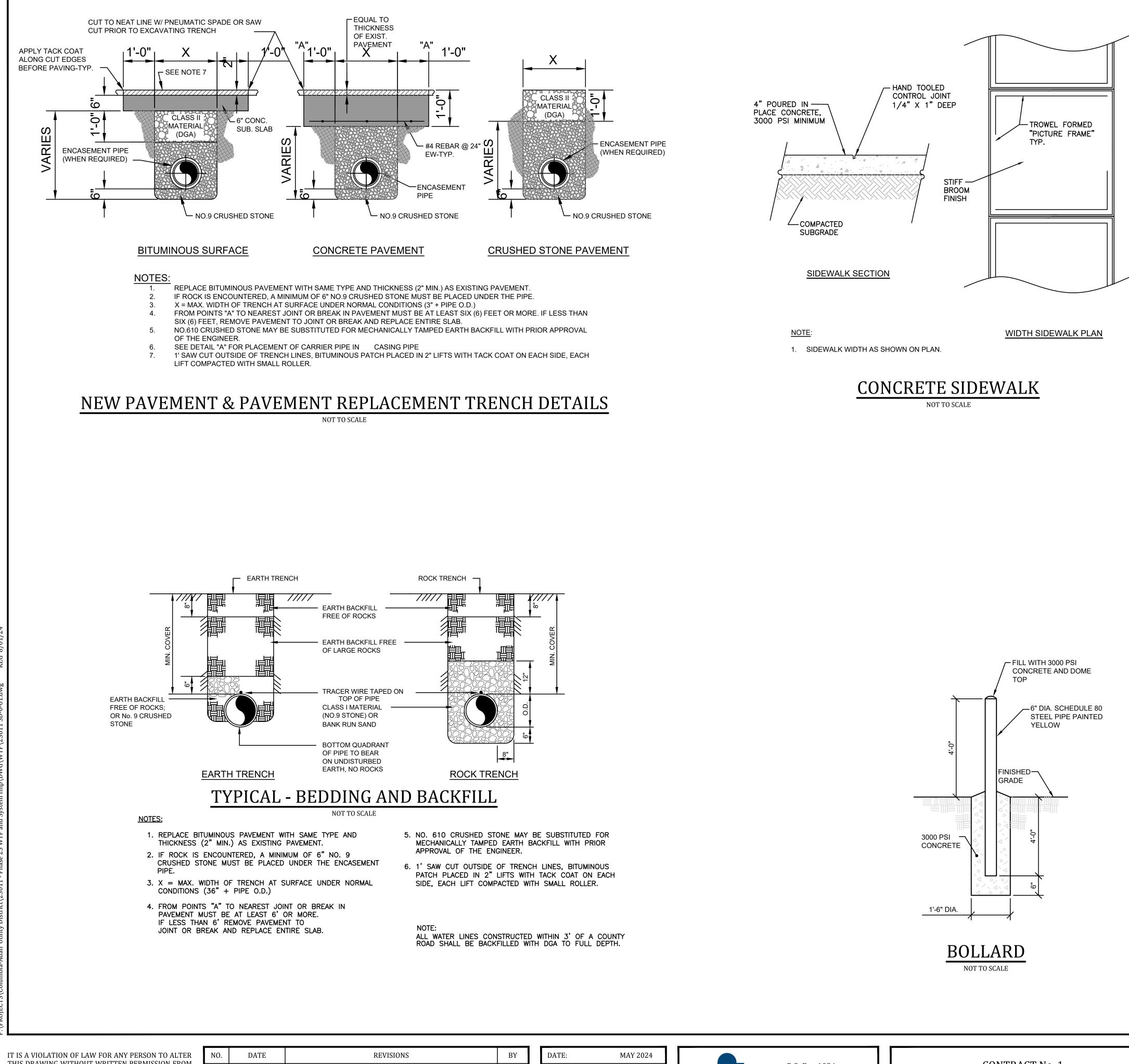
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## $\bigcirc$ REFERENCE NOTES:

- 1. POLYMER FEED SYSTEM SKID, SEE ISOMETRICS THIS





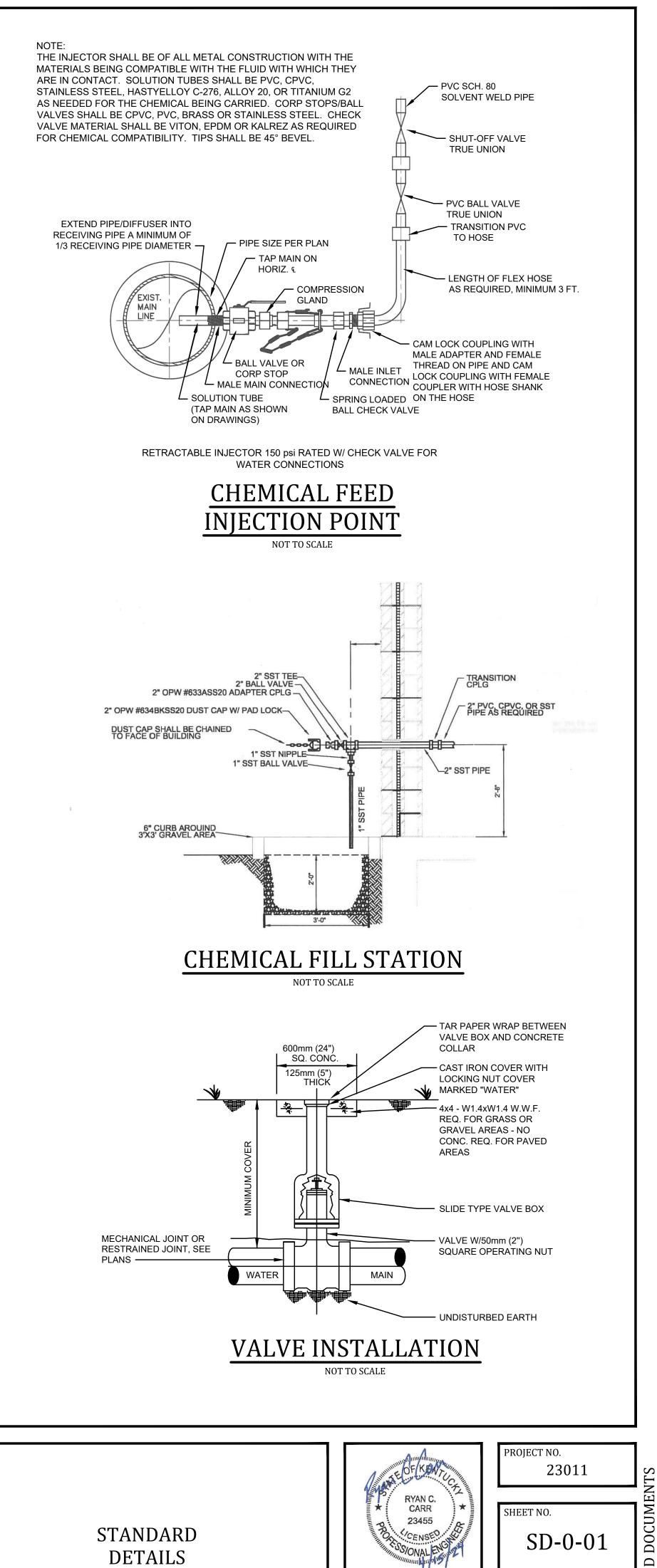
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				DRAWN BY:	JAB	
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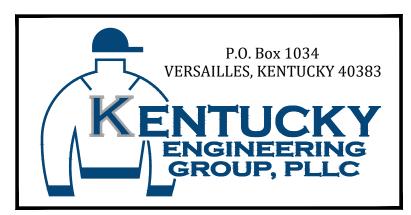
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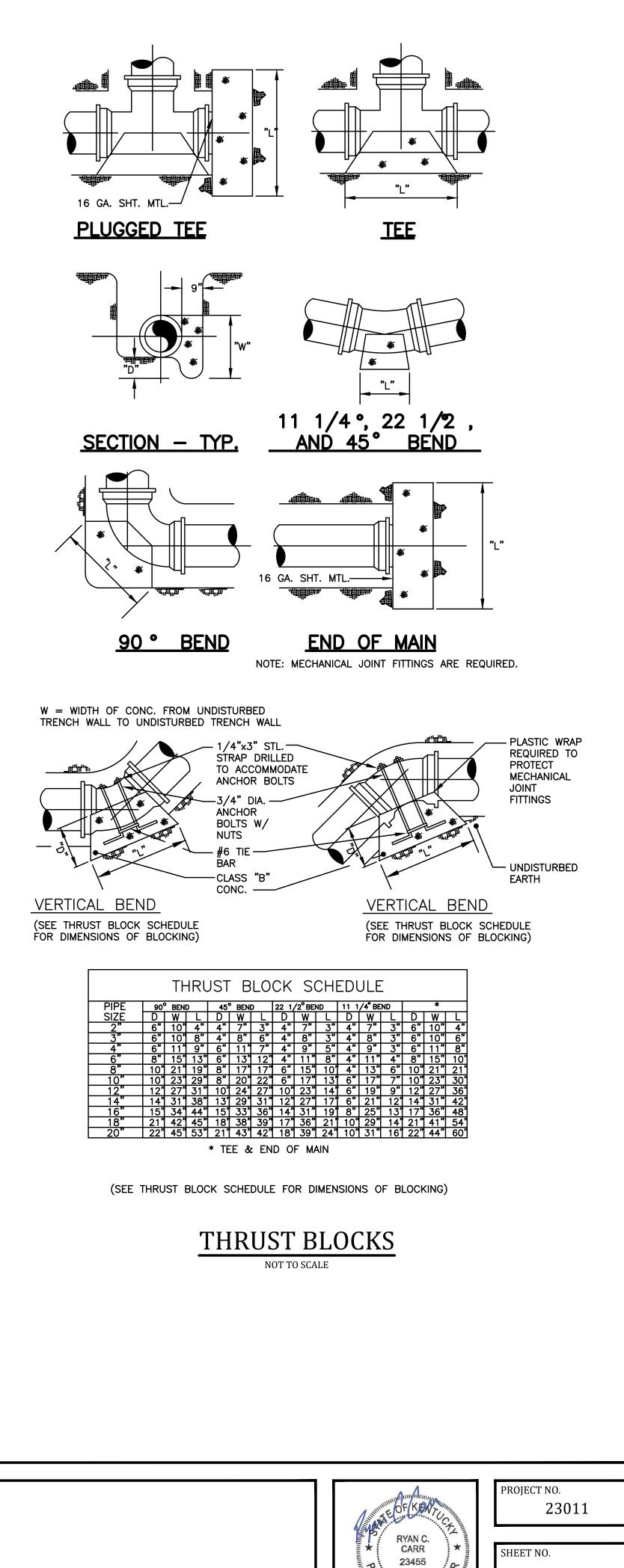
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				PROJECT MGR:	RCC	
				DRAWN BY:	JAB	
				CHECKED BY:	RCC	
				SCALE:	AS NOTED	
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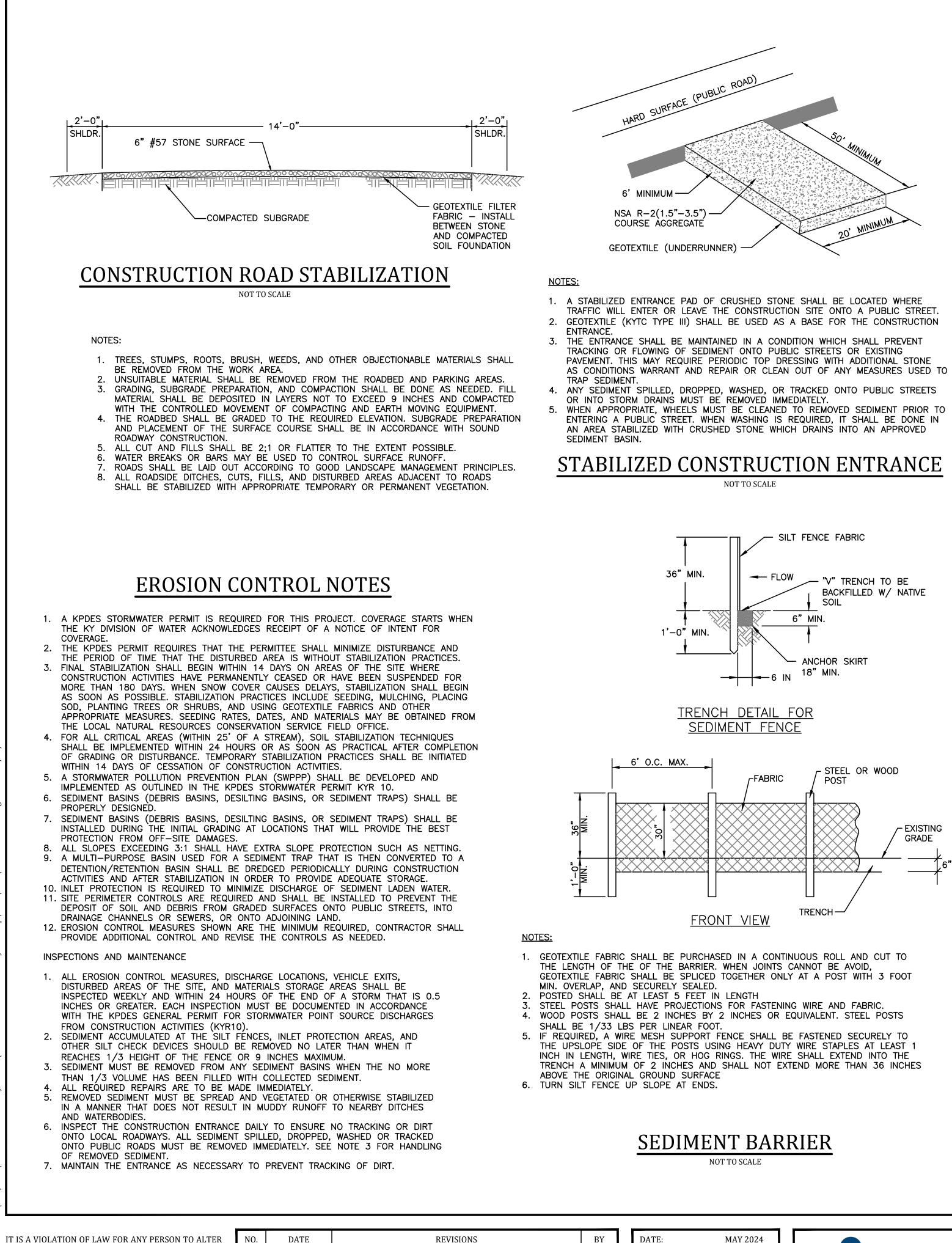
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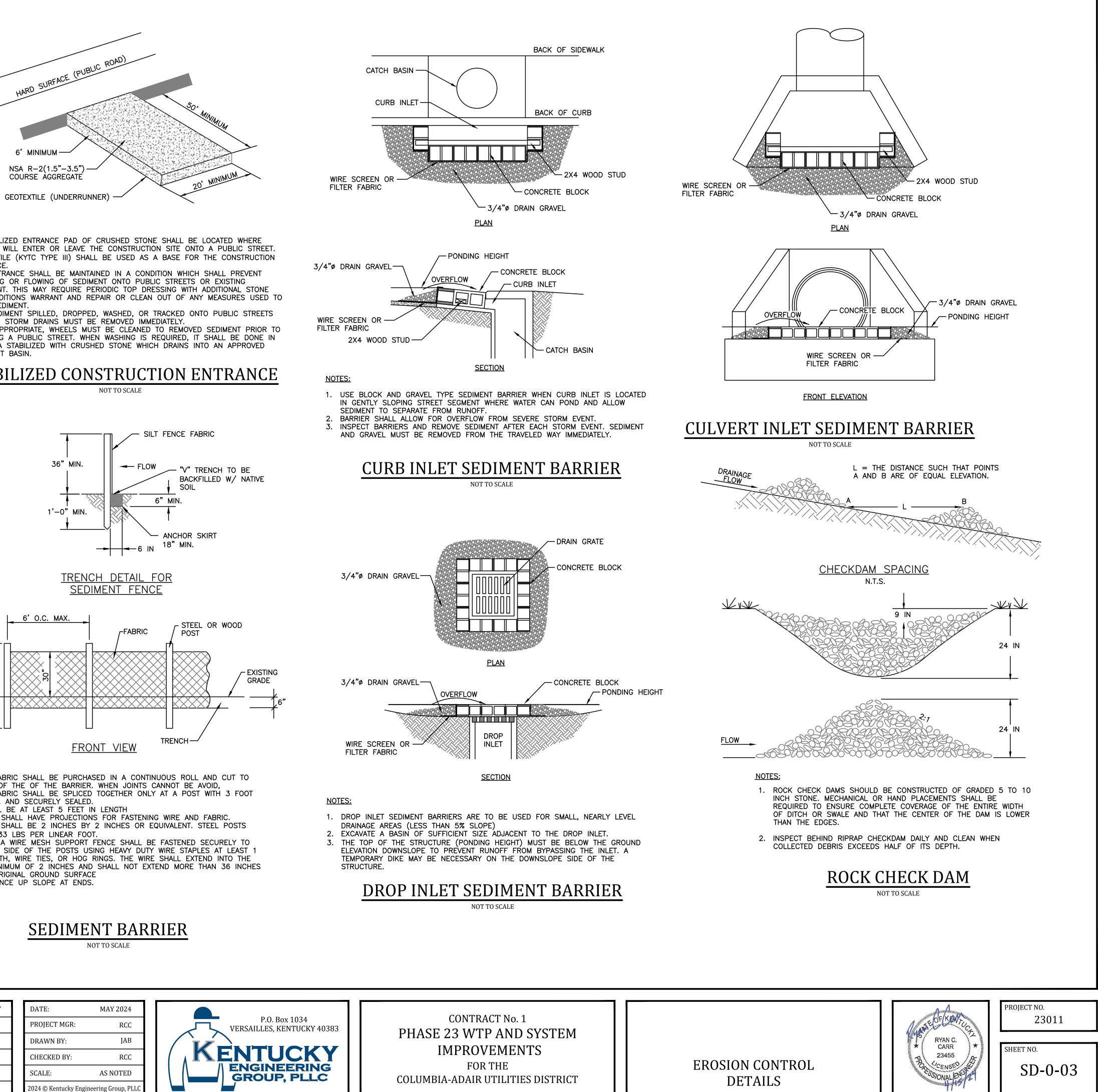
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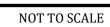
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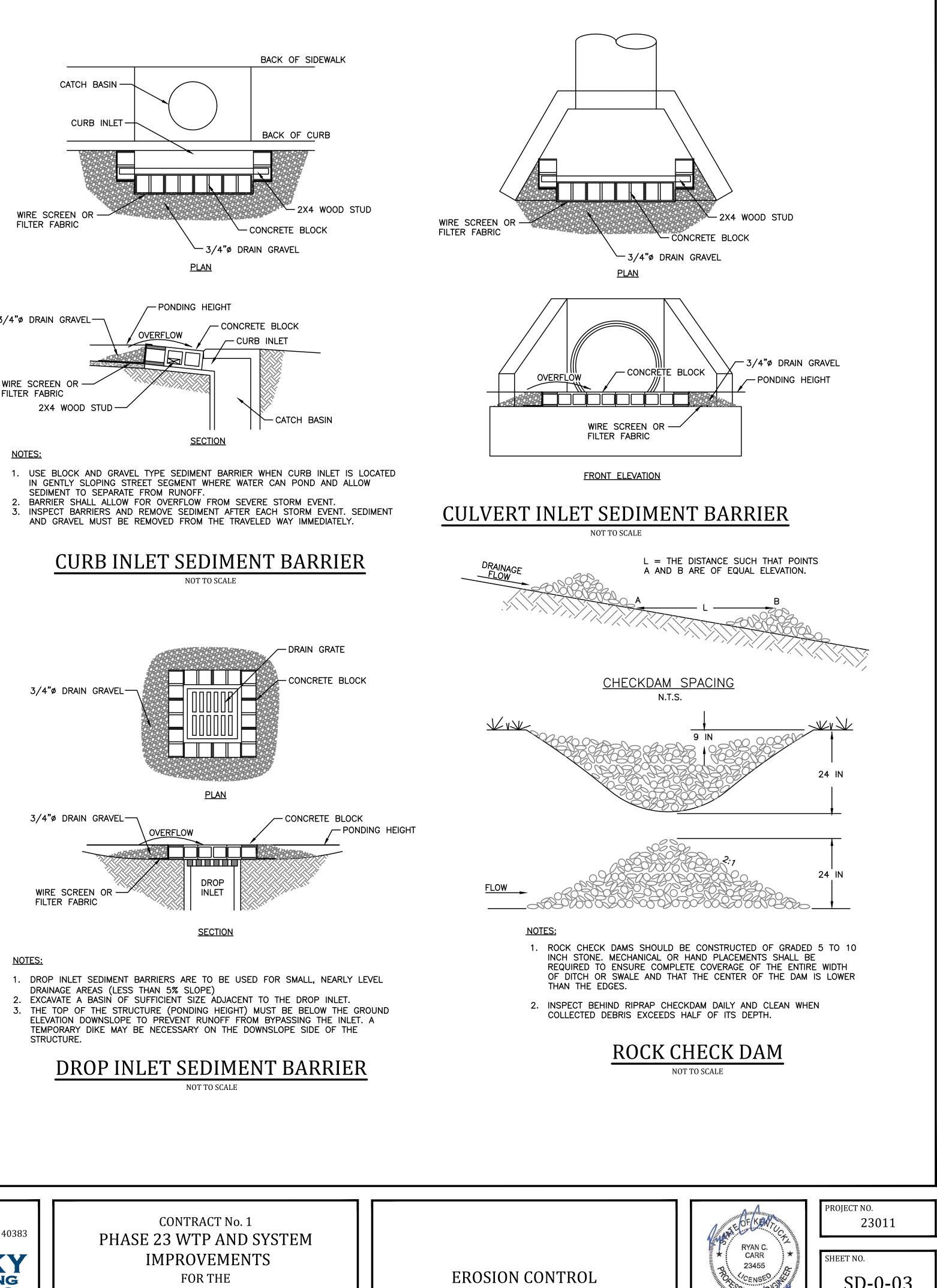
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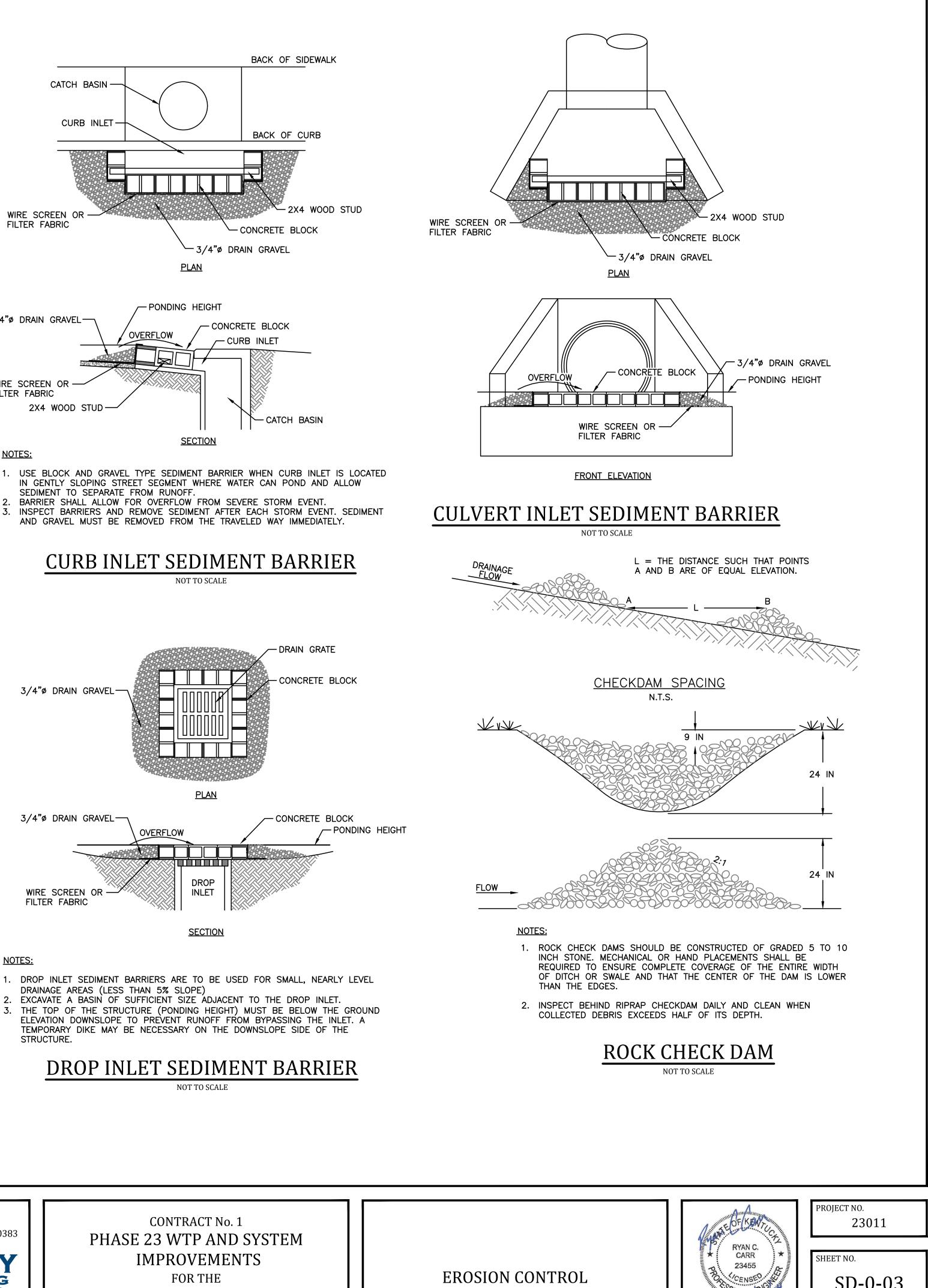
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