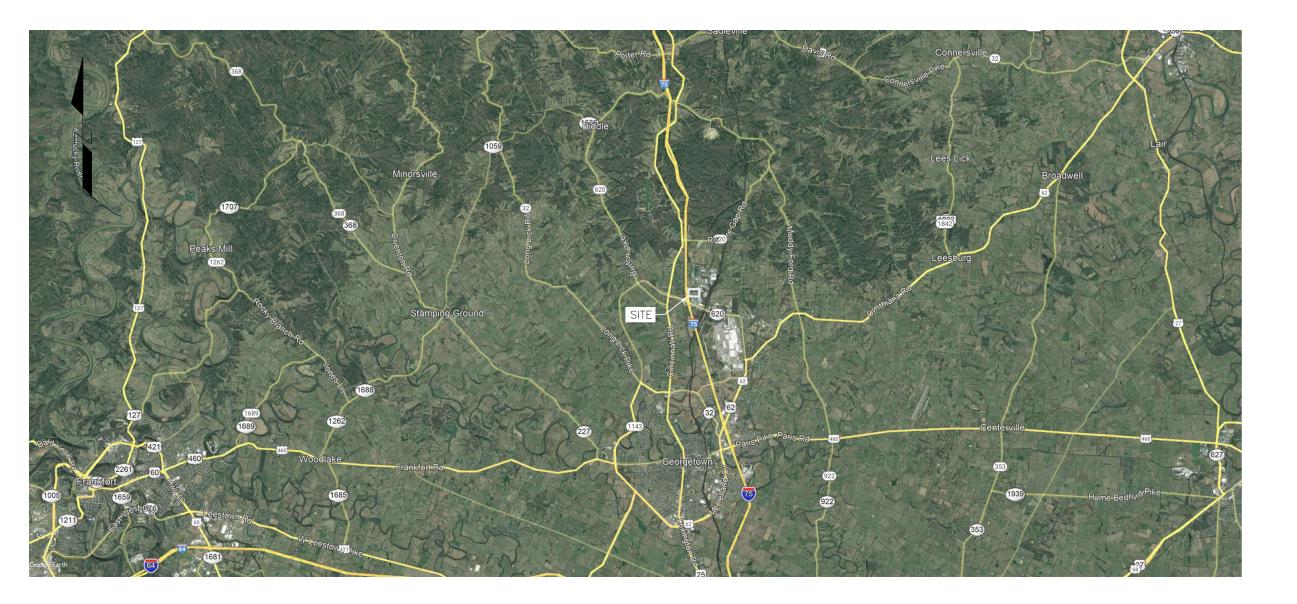


DELAPLAIN WWTF IMPROVEMENTS IN SCOTT COUNTY, KENTUCKY

PERMIT ISSUE: FEBRUARY 23, 2022 BID ISSUE: MAY 18, 2023 CONSTRUCTION ISSUE: ____,2023 RECORD ISSUE: _____, 2023



VICINITY MAP





BAR IS ONE INCH ON OFFICIAL DRAWINGS. O to not one inch, ad		
<u>G LIST</u>	# DATE A 2/23/2022 B 5/18/2023	OUP INC. e 301 mai@21designgroup.net 3090 P: 636-432-5029
COVER SHEET GENERAL NOTES EXISTING CONDITIONS / DEMOLITION PLAN GRADING AND PAVEMENT PLAN UTILITY PLAN DETAIL SHEET PROCESS FLOW DIAGRAM HYDRAULIC PROFILE PROCESS NOTES, ABBREVIATIONS AND LEGENDS IFAS CAGE AND BLOWER IMPROVEMENTS PROCESS PLAN LAYOUT IFAS CAGE PLAN AND SECTIONS (TO BE SUPPLIED IN ADDENDUM 1) BLOWER PLAN AND SECTIONS (TO BE SUPPLIED IN ADDENDUM 1) BLOWER PLAN AND SECTIONS EFFLUENT PUMP STATION PROCESS PLAN EFFLUENT PUMP STATION PROCESS SECTIONS FILTER BUILDING PROCESS PLAN FILTER BUILDING PROCESS SECTIONS PROCESS DETAILS AND ELECTRICAL RISER DIAGRAM		EMENTS CKY CKY Washington, MO 63090
	COVER SHEET	DELAPLAIN WWTF IMPROVE 260 W YUSEN DRIVE SCOTT COUNTY, KENTU
	ENGINEERING	CERTIFICATE OF 4804 LICENSE: UENZEL, PE33718
	SEAL DATE: DRAWN BY: PROJ NUMBER: DATE: DRAWING NO:	BAT18 ENSE

DRAWING LIST

C01 C02

C03 C04

C05 C06

P1 Ρ2

- Ρ3 Ρ4 IFAS CAGE AND BLOWE
- Ρ5 IFAS CAGE PLAN AND
- P6 BLOWER PLAN AND SE Ρ7 EFFLUENT PUMP STATI
- P8 EFFLUENT PUMP STATI
- P9 FILTER BUILDING PROCI P10
- FILTER BUILDING PROCE P11 PROCESS DETAILS AND

General Notes and Construction Specifications 1. All water and sewer main construction shall be consistent with the local municipality requirements as well as all testing and disinfection requirements of Kentucky DEP. 2. The contractor shall obtain, erect, maintain and remove all signs, barricades, flagmen and other control devices as may be necessary for the purpose of regulating, warning or guiding traffic. Placement and maintenance of all traffic control devices shall be in accordance with the latest revision of the Manual on Uniform Traffic Control Devices. 3. Location of utilities shown on plans are approximate only, and are not necessarily complete. Contractor shall make his own investigations as to location of all existing underground structures, cables, utilities and pipe lines. 4. If existing utility lines of any nature are encountered which conflict in location with new construction, the contractor shall notify the engineer and owner so that the conflict may be resolved. the contractor. 5. The contractor shall notify One Call at least 48 hours prior to construction so that each utility company can stake out any underground improvements that they and specifications during construction. may have which might interfere with the proposed construction. 6. The contractor shall be required to make arrangements for the proper bracing, for approval prior to ordering. shoring and other required protection of all roadways, structures, poles, cables and pipe lines, before construction begins. He shall be responsible for any damage to the streets or roadways and associated structures and shall make repairs as necessary to the satisfaction of the engineer and owner at his own considered incidental to the contract. expense. 7. The contractor shall be responsible for the protection of all private and public utilities even though they may not be shown on the plans. Any utility that is damaged during construction shall be repaired or replaced to the satisfaction of the engineer and owner by the contractor at his own expense. 8. The contractor shall examine the plans and specifications, visit the site of the work and inform himself/herself fully with the work involved, general and local conditions, all federal, state and local laws, ordinances, rules and regulations and all other pertinent items which may affect the cost and time of completion of this project before submitting a proposal. 9. All work and materials shall be in accordance with code requirements. or any time site is left unattended. 10. Prior to submitting his bid, the contractor shall call the attention of the engineer to any material or equipment he deems inadequate and to any item of work omitted on the plans. materials. 11. Structures for valve vaults for water mains shall be in accordance with the improvement plans and the applicable municipality construction requirements. Where granular trench backfill is required around these structures, the cost shall be considered as incidental and shall be included in the contract unit price for the structure. structures. 12. Frame and cover or grates for water main structures shall be as indicated within these improvement plans. engineer and city or state agency. 13. All final adjustments of casting will be accomplished by the use of precast concrete adjusting rings set in butyl rope joint sealant, mortar joints will not be allowed. Total height of adjusting rings used shall not exceed twelve (12") inches. cost for adjustment is considered incidental. 14. The contractor shall be responsible to place on grade and coordinate with other contractors all underground structure frames such as catch basins, inlets, manholes, hydrants, buffalo boxes, valves, etc. No additional compensation shall of work as provided in the contract documents. be paid and said adjustments shall be considered incidental to other items of construction. 15. The contractor shall restore any area disturbed to a condition equal to or better than its original use. This shall include finish grading, establishment of a vegetative cover (seeding or sod), general cleanup and pavement replacement. specifications. 16. All trenches caused by the construction of all utilities and the excavation around catch basins, manholes, inlets and other appurtenances which occur within the limits of existing or proposed pavements, sidewalks and curb and gutters or where the edge of the trench shall be within two (2') feet horizontally of said improvements shall be backfilled with compacted granular trench backfill or with approved suitable select material and properly compacted to 100% of maximum density as determined by the standard proctor dry density (ASTM d 698) compaction test. When granular material is required, the cost shall be considered 35. All materials and methods of construction to meet the specifications submitted incidental and shall be included in the contractors bid. for the construction permit. 17. The depth of backfill shall be measured from the top of the pipe embedment to 36. Construction should not commence until all permits have been received from all

18. The contractor shall be responsible for providing safe and healthful working

the finished subgrade or as noted on the plans.

- 19. The engineer will be given forty-eight (48) hours notice for any staking that is to be done. The cost of stakeout is the responsibility of the contractor.
- 20. The contractor shall inform the engineer and owner before work commences on each category of construction, i.e. water main, grading, pavement and drainage improvement. A twenty-four (24) hour notice shall be given for any item that requires final testing and inspection such as water mains or sanitary sewers.
- 21. The engineer will furnish the contractor with lines and grades necessary to the proper prosecution and control of the work. The contractor shall call the attention of the engineer to any errors or discrepancies which may be suspected in lines and grades which are established by the engineer, and shall not proceed with the work until any lines and grades which are believed to be in error have been verified or corrected by the engineer or his representative.
- 22. All survey monuments damaged or removed during construction of this project shall be replaced by the surveyor and said cost of replacement shall be paid by
- 23. The contractor will have in his possession on the job site a copy of the plans
- 24. If approval for any items is required, the contractor shall contact the engineer
- 25. Any drain and/or field tile encountered by the contractor during the installation of the improvements shall be returned to original condition. This work to be
- 26. All road signs, street signs and traffic signs which need to be relocated or moved due to construction shall be taken down and stored by the contractor at his own expense, except those which are necessary for proper traffic control which shall be temporarily reset until completion of construction operations. After completion of the work, the contractor shall reset, at his expense, all said signs.
- 27. The contractor shall dispose of all excess excavation, unsuitable and unusable materials offsite and at an approved location in a manner that public or private property will not be damaged or endangered. This work is considered as
- incidental to the cost of the project. Contractor to follow any local, state, and federal guidelines for disposing of material off site.
- 28. No trench excavations will be permitted to remain open over any weekend, night,
- 29. Band-seal style couplings shall be used when joining sewer pipes of dissimilar
- 30. As-built drawings shall be prepared by the contractor and submitted to the engineer as soon as the site improvements are completed. Any change in length, location or alignment shall be shown in red. As-builts will be performed by a licensed surveyor. It will include the tops and flowlines of all storm and sanitary
- 31. The contractor is responsible for coordinating any required inspections with the
- 32. Special attention is drawn to the fact that the standard specifications requires the contractor to have a competent superintendent on the project site at all times, irrespective of the amount of work sublet. The superintendent shall be capable of reading and understanding the plans and municipality construction specifications, shall have full authority to execute orders to expedite the project, shall be responsible for scheduling and have control of all work as the agent of the contractor. Failure to comply with this provision will result in a suspension
- techniques, sequences or procedures, time of performance, programs or for any safety precautions used by the contractor. The contractor is solely responsible for execution of his work in accordance with the contract documents and
- 34. The utilities shown hereon were plotted from available information and do not necessarily reflect the actual existence, non-existence, size, type, or location of these or other utilities. The contractor shall be responsible for verifying the actual location of all utilities. All utilities shall be located in the field prior to any construction of improvements. These provisions shall in no way absolve any party from complying with the underground facility safety and damage prevention

governing agencies.

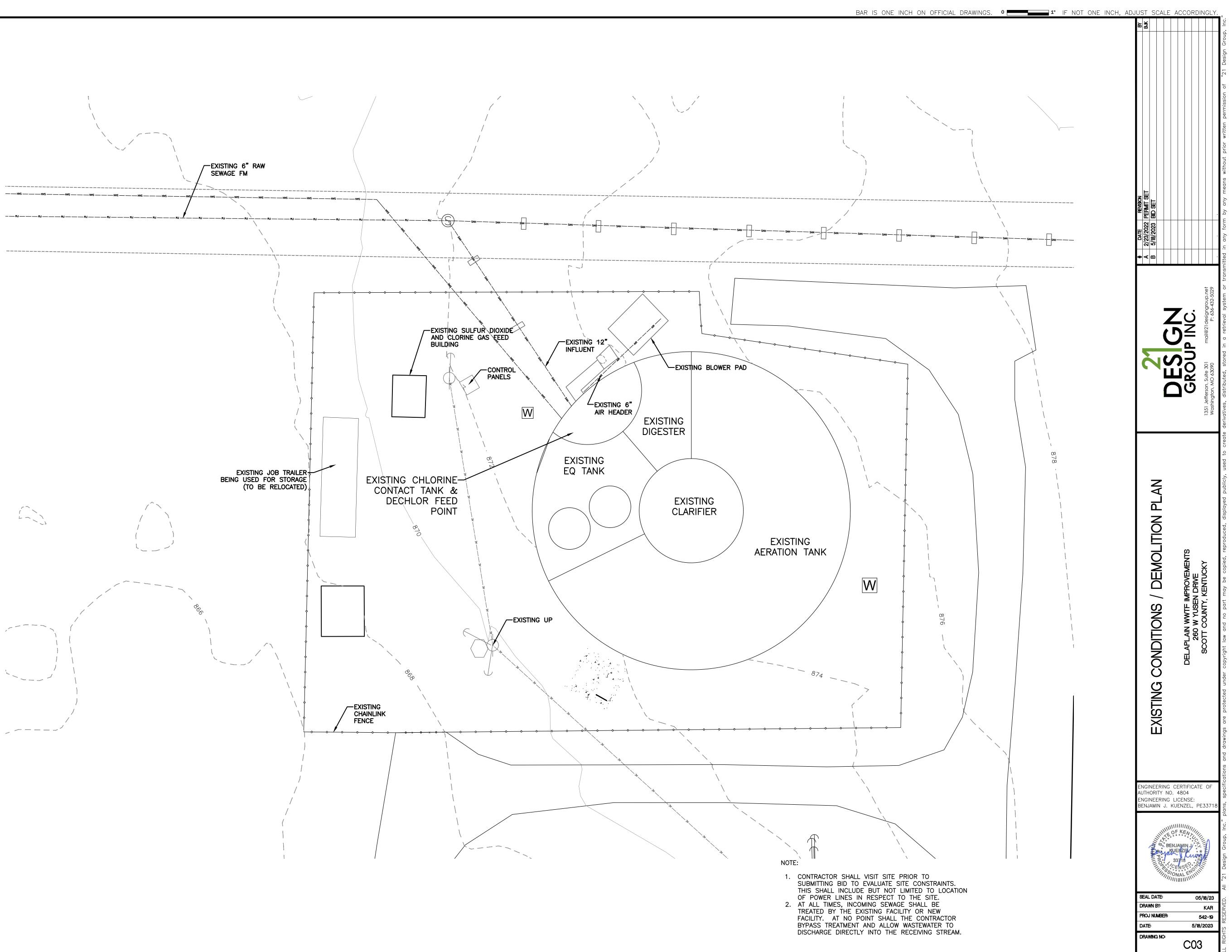
- 37. No land disturbance activities can be completed until all land disturbance permitting has been acquired. It is the responsibility of the contractor to verify permits are in place prior to activities. Contractor will be responsible for any fines that are incurred due activities completed prior to having necessary permitting in place.
- 38. All fill material shall be made of selected earth materials, free from broken masonry, rock, frozen earth, rubbish, organic material and debris.
- 39. Grading contractor shall keep existing roadways clean of mud and debris at all times.If the city or owner has to clean the roads it will be at the expense of the D. All CPP or HDPP shall be installed using embedment material meeting North contractor.
- 40. All graded areas shall be protected from erosion by erosion control devices and/or seeding and mulching as required by all local and state agencies and permits.
- 41. No grade shall exceed a 3:1 slope except where noted.
- 42. Interim stormwater drainage control in the form of siltation control measures are required.
- 43. Adequate temporary off-street parking shall be provided for construction employees. Parking on non-surfaced areas shall be prohibited in order to eliminate the condition whereby mud from construction and employee vehicles is tracked onto the pavement causing hazardous roadway and driving conditions.
- 44. The contractor shall, at all times, contain mud and other spoils on the site. No vehicle, trailer or construction equipment is to deposit mud or any other material on public streets. Project will be stopped if streets are not cleaned immediately.
- 45. Public roadways shall be kept open to traffic during all phases of construction of improvements. No driving lanes shall be closed without prior written permission from the governing agency.
- 46. The contractor shall furnish, maintain, and remove traffic control devices for the purpose of regulating, warning, and directing traffic during construction in the public roadways. All flagmen, barricades, warning signs, etc. shall conform to the manual for uniform traffic control devices.
- 47. No investigation has been performed by the engineer regarding hazardous waste, underground conditions or utilities affecting the tract of land shown herein.
- 48. This plan is not a survey in any sort and shall not constitute a boundary survey.
- 49. Onsite utilities have been shown based on documents obtained from public entities.
- 50. See MEP/Arch. plans for site lighting and electrical design/layout.
- 51. Contractor shall comply with all OSHA requirements for safety and construction.
- 52. All utility trenches in paved areas shall be compacted to the requirements of the specific paving specification. Only granular material shall be used in utility trenches under paved areas.
- 53. All unsurfaced areas shall receive a minimum of 6" of topsoil. Contractor shall seed, fertilize, mulch, and maintain all disturbed areas until stabilization is provided meeting the technical specifications and/or direction of the Engineer.
- 54. The contractor is responsible for maintenance of sediment control bmps throughout the entire project.
- 55. All sewer laterals shall have a 2% minimum slope.
- 33. The engineer and owner are not responsible for the construction means, methods, 56. All storm sewer covers shall have the words "Storm Drain" cast in the top in letters three inches high. All sanitary sewer covers shall have "Sanitary Sewer" meeting same specification.
 - 57. All frames, grates and covers shall be ductile iron, conforming to ASTM A48, Class 30 and shall be designed for heavy duty traffic.
 - 58. Manhole steps shall be constructed of polypropylene conforming to ASTM D 4101 and shall meet current state and federal safety standards. Steps shall be Neenah R-1981-N or approved equal.
 - 59. Pre-cast manholes shall be at least 48" diameter and conform with ASTM C478 and to design dimensions. All lift hole shall be thoroughly wetted and completed filled with mortar and smoothed. Structures shall be free of fractures or cracks.

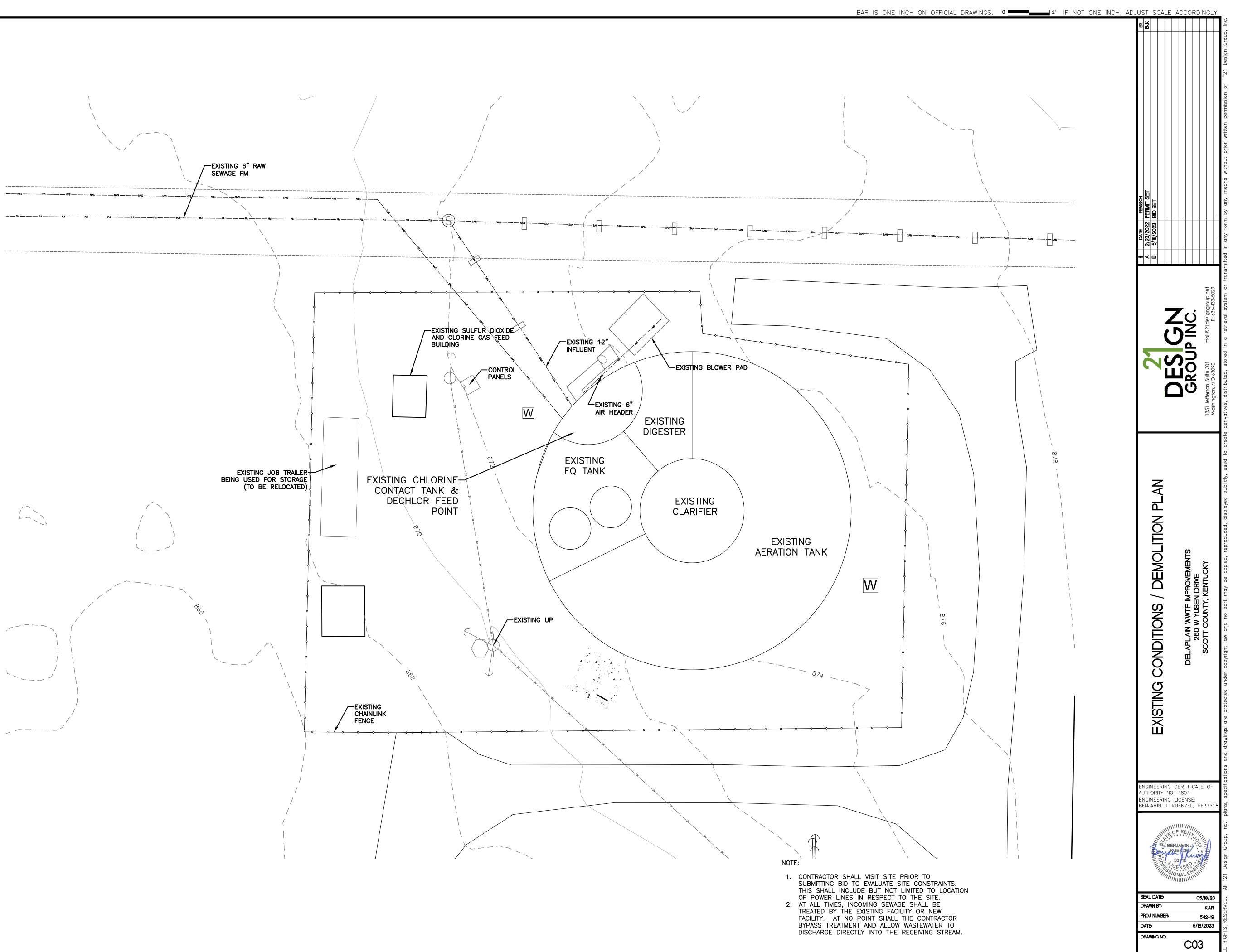
BAR IS ONE INCH ON OFFICIAL DRAWINGS. 0 **1** IF NOT ONE INCH, ADJUST SCALE ACCORDINGLY.

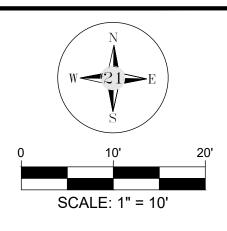
- 60. All storm sewer 12" to 30" in diameter shall be Corrugated Polyethylene Pipe (CPP) or High Density Polypropolene (HDPP). A. CPP pipe and fittings shall conform to ASTM F405 and F667 and shall have a
- circular cross-section and have a smooth wall interior. B. End sections shall be polyethlyene flared type with toe plates.
- C. Joints shall be provided with neoprene or manufacturer"s standard gaskets and meet ASTM F2881. Pipes up to shall be water tight according to D3212. Spigots shall have gaskets meeting the requirements of ASTM F477.
- Carolina Department of Transportation requirements. E. Installation to conform to ASTM D2321 and pipe manufacturer's recommendations
- for backfill, bedding, installation, and minimum cover requirements. F. Clean joints thoroughly, and coat bell, spigot and gasket with recommended lubricant before jointing.
- 61. Dual wall and triple wall polypropylene pipe (HDPP) shall confirm to the requirements of AASHTO M330 "Standard Specification for Polypropylene Pipe, ASTM F2736 (Dual wall) for sizes 12" to 30" and ASTM F2764 (Triple wall) for sizes 30" to 60". All polypropylene pipe shall be installed according with ASTM F2321 "Standard Practice for Underground Installation of Thermoplastic Pipe for Sewers and Other Gravity-Flow Applications.".

# DATE REVISION A 2/23/2022 PERMIT SET B 5/18/2023 BID SET	
2	Image: Signation with state s
GENERAL NOTES	DELAPLAIN WWTF IMPROVEMENTS 260 W YUSEN DRIVE SCOTT COUNTY, KENTUCKY
BENJAMIN	
DRAWN BY: PROJ NUMBE	,,

$ \begin{array}{c} $			
DRAWING			
Asphalt			
Concrete			
Easement Setbacks Property Lines Sanitary Sewer Gas Main Water Main Underground Telephone Aerial Electric Underground Electric Storm Sewer Contours Tree Line Sanitary Manhole Utility Pole	SAN		
Utility Pole	•		
Fire Hydrant Telephone Box Water Valve			
Gas Valve	G		
Sign			
Grated Inlet			
Catch Basin			
Grated Curb Inlet			
Junction Box			
Flared End Section			





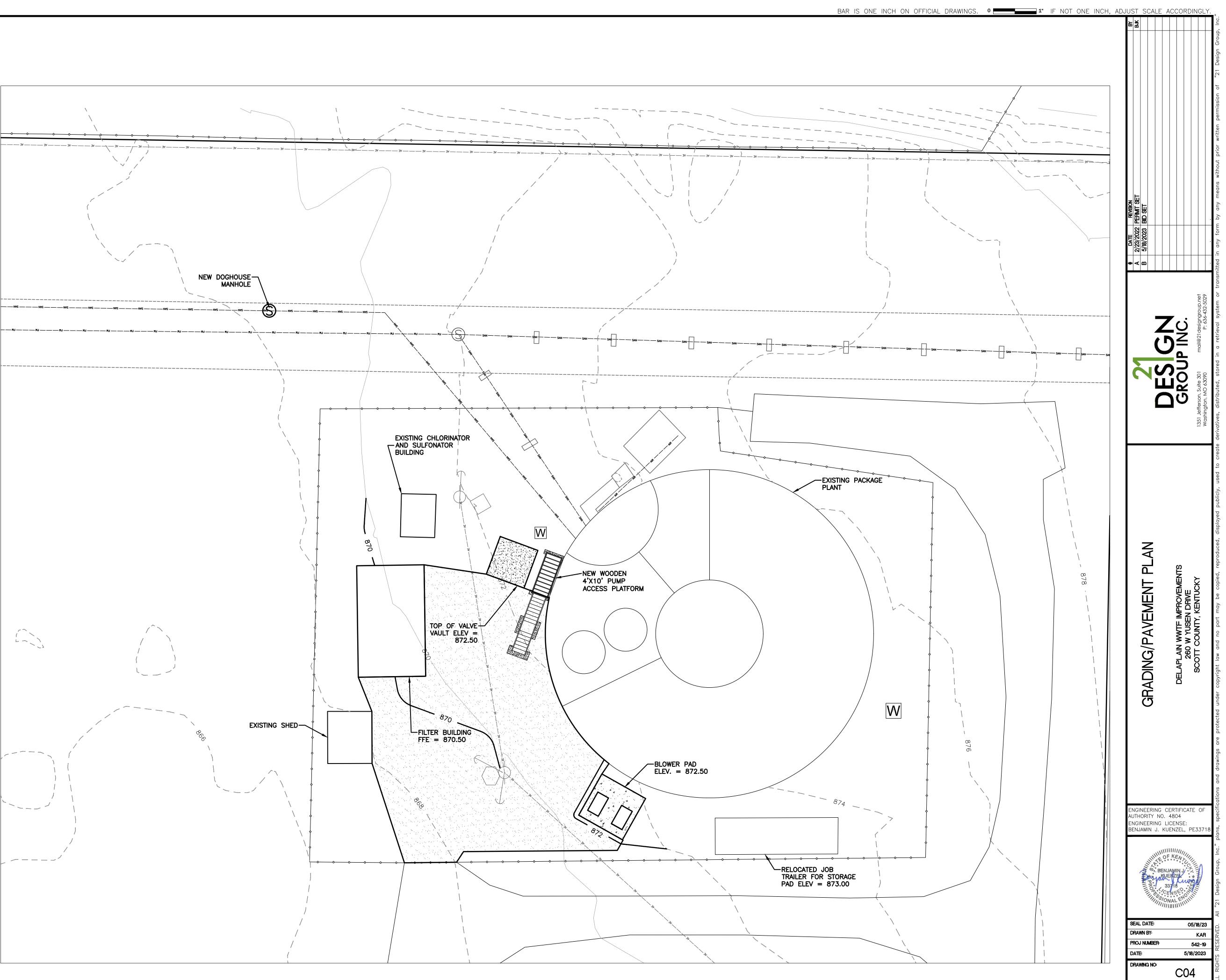


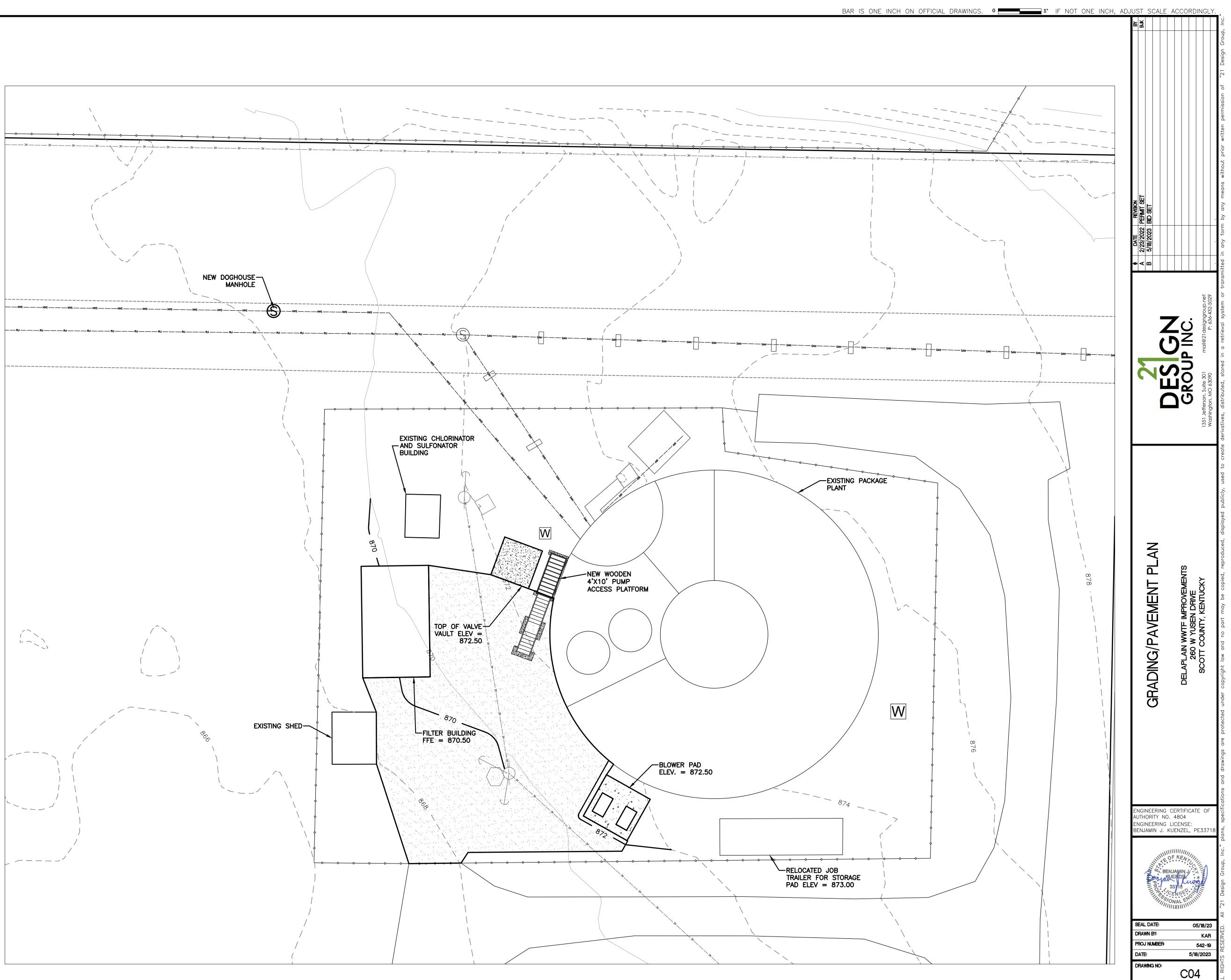
DRAWING LEGEND

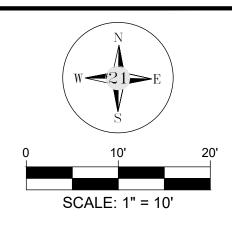
DESCRIPTION	EXISTING	PROPOSED
Easement		
Setbacks		
Property Lines		
Aerial Electric	AE AE	AE AE
Tree Line	······································	· · · · · · · · · · · · · · · · · · ·
Sanitary Manhole	S	S
Utility Pole	-O-	- O -
Fire Hydrant	5-9-0	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
Telephone Box	Т	T
Water Valve	\bowtie	\bowtie
Gas Valve	G	G
Sign		
Grated Inlet		
Catch Basin	0	0
Grated Curb Inlet		
Junction Box	\bigcirc	\bigcirc
Flared End Section		\triangleleft

PAVEMENT LEGEND

Existing Asphalt	
Existing Concrete	
New Concrete	
New Standard Duty Asphalt	
New Heavy Duty Asphalt	
New Standard Duty Concrete	
New Heavy Duty Concrete	







DRAWING LEGEND

DESCRIPTION	EXISTING	PROPOSED
Easement		
Setbacks Property Lines		
Aerial Electric	AE AE AE	AE AE
Tree Line		
Sanitary Manhole	S	S
Utility Pole		- O -
Fire Hydrant	\$Y\$	* **
Telephone Box	Т	Т
Water Valve	\bowtie	\bowtie
Gas Valve	G	G
Sign		-0-
Grated Inlet		
Catch Basin	0	0
Grated Curb Inlet		
Junction Box	\bigcirc	\bigcirc
Flared End Section		

EFFLUENT TO BE FIELD LOCATED)

APPROXIMATE LOCATION-OF EXISTING EFFLUENT

------ NJ ----- NJ

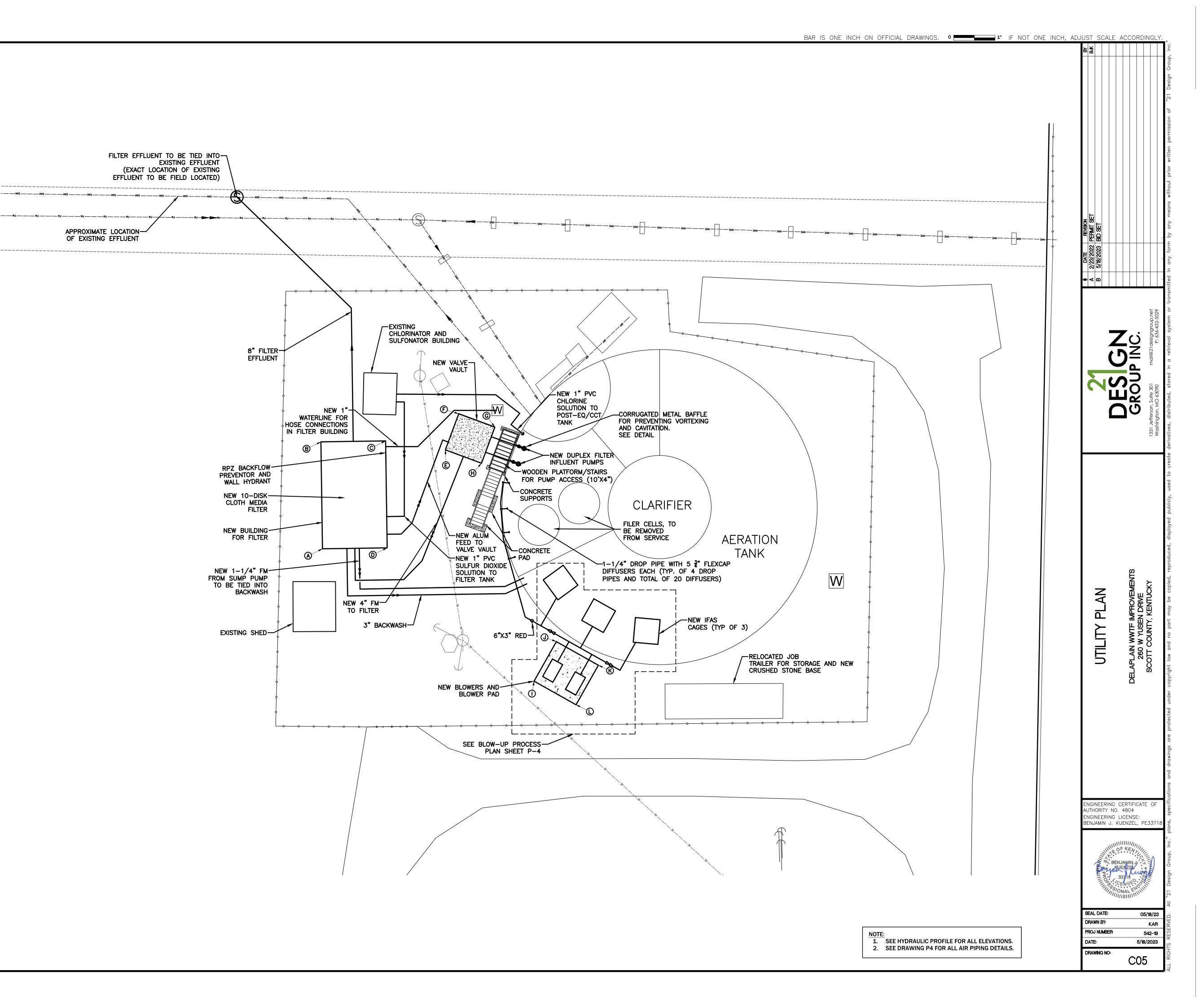
PAVEMENT LEGEND

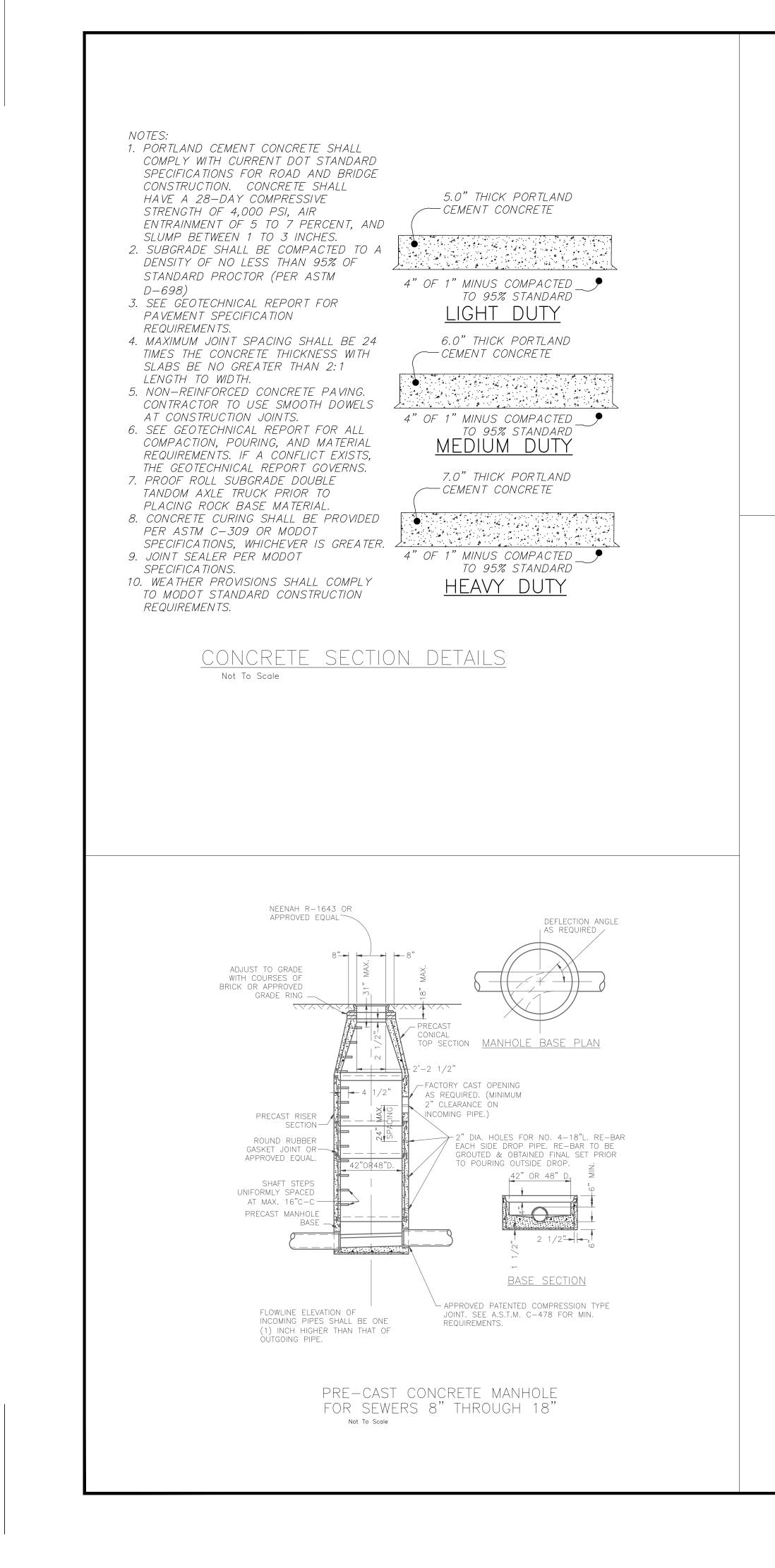
Existing Asphalt	
Existing Concrete	
New Concrete	
New Standard Duty Asphalt	
New Heavy Duty Asphalt	
New Standard Duty Concrete	
New Heavy Duty Concrete	4

PROPOSED STRUCTURE LOCATIONS

COORDINATE POINT	<u>NORTHING</u>	<u>EASTING</u>
Α	286419.655	1552517.277
В	286445.569	1552516.897
C	286445.798	1552532.562
D	286419.884	1552532.942
E	286443.621	1552547.032
F	286452.375	1552550.269
G	286449.139	1552559.023
н	286440.384	1552555.787
I	286387.587	1552568.513
J	286397.173	1552573.908
К	286391.451	1552584.075
L	286381.865	1552578.680

* NAD83 KENTUCKY STATE PLANES COORDINATES, NORTH ZONE, US FOOT





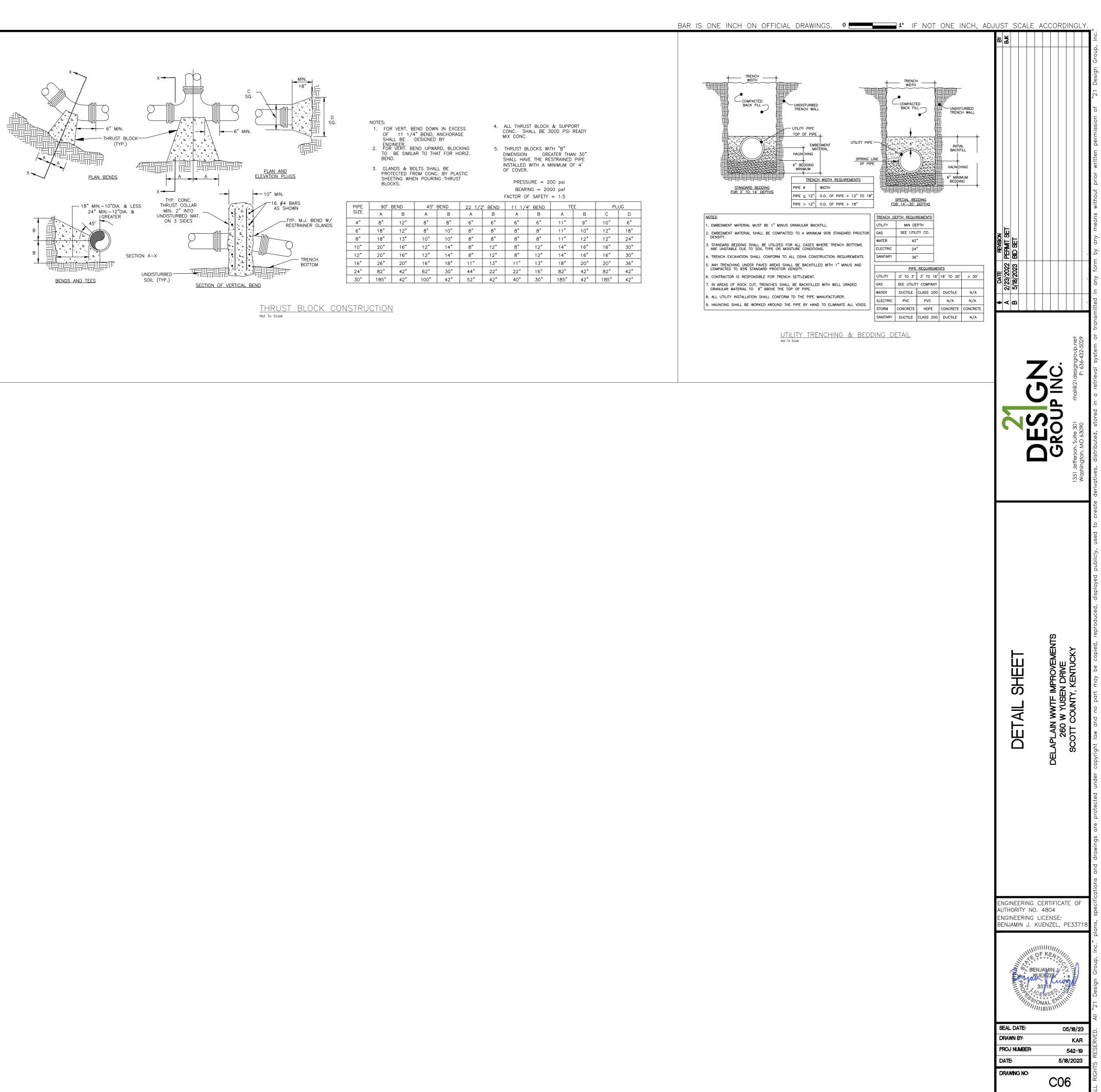
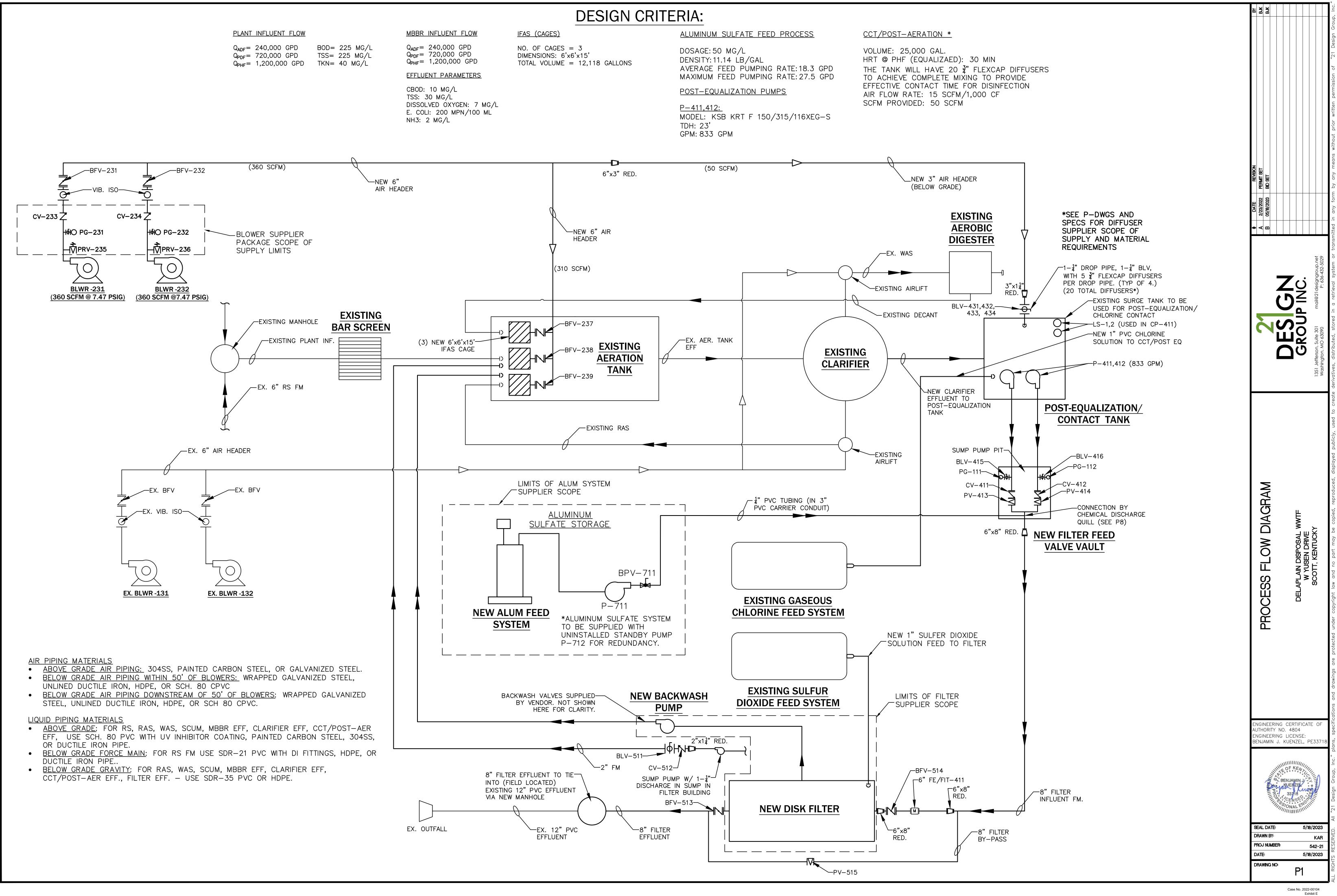
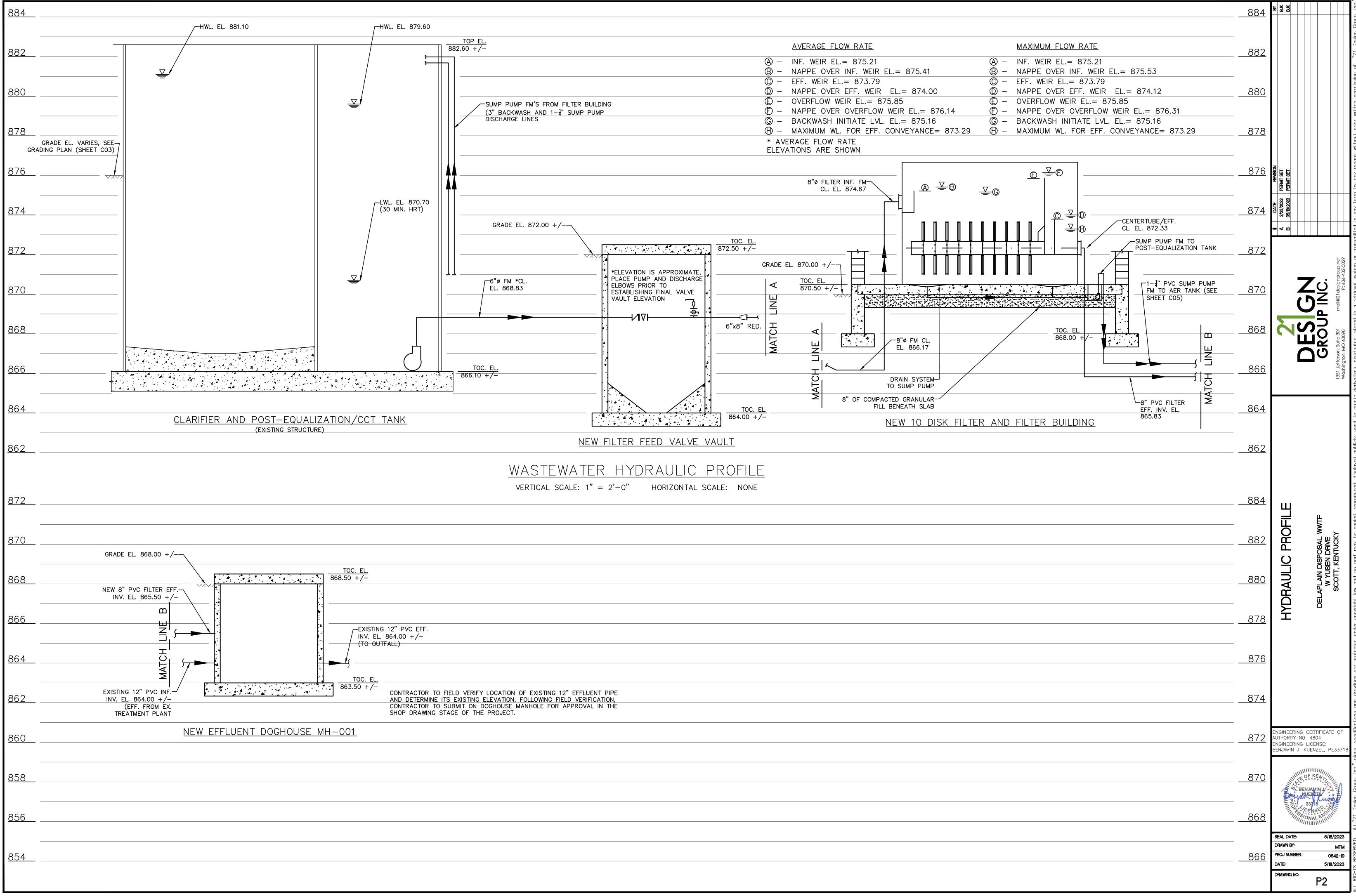


Exhibit E Page 6 of 17



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Case No. 2022-00104 Exhibit E Page 8 of 17

FOUNDATION NOTES:

- THE FOUNDATION DESIGN IS BASED ON THE GEOTECHNICAL REPORT. CONTRACTOR WILL BE FURNISHED WITH GEOTECHNICAL REPORT FOLLOWING WRITTEN REQUEST
- ALL SOIL SUPPORTED FOOTINGS SHALL BE FOUNDED UPON UNDISTURBED NATURAL SUBGRADE WITH A MINIMUM ALLOWABLE BEARING CAPACITY OF 3,000 PSF AS FIELD VERIFIED AND APPROVED BY THE CONTRACTOR'S SOIL TESTING LABORATORY. FINAL, EXACT ELEVATIONS AND SOIL BEARING CAPACITIES SHALL E FIELD DETERMINED AND VERIFIED BY THE CONTRACTOR'S SOIL TESTING LABORATORY AND REVIEWED BY THE ENGINEER DURING CONSTRUCTION.
- SHOULD UNACCEPTABLE SOIL BE FOUND AT THE BEARING ELEVATION, THE SOIL SHOULD BE REMOVED TO A LEVEL OF ACCEPTABLE MATERIAL. THE OVER EXCAVATION WIDTH SHALL EXTEND LATERALLY AT LEAST 12" BEYOND THE FOUNDATION EDGE FOR EACH 12" OF OVER EXCAVATION DEPTH. THE OVER EXCAVATION SHALL BE BACKFILLED WITH COMPACTED GRANULAR FILL AND TESTED BY THE CONTRACTOR'S TESTING AGENCY.
- SOIL SUBGRADE FOR ALL FOOTINGS AND SLABS SHALL BE INSPECTED AND APPROVED BY THE CONTRACTOR'S SOIL TESTING LABORATORY PRIOR TO PLACING FOUNDATION CONCRETE OR CONCRETE MUD SUBS.
- ALL FOOTING SUBGRADES AS REQUIRED AND ALL SLAB SUBGRADES INCLUDING PIT SLABS SHALL BE COMPACTED TO 95 PERCENT OF MAXIMUM DENSITY AT OPTIMUM MOISTURE CONTENT BASED ON LABORATORY DESIGNED ASTM D1557. ALL BACKFILL AROUND AND ABOVE ALL FOUNDATION ELEMENTS, FOOTINGS, CAPS, MATS AND PITS SHALL BE COMPACTED TO 90 PERCENT OF MAXIMUM DENSITY AT OPTIMUM MOISTURE CONTENT BASED ON LABORATORY DESIGNATION ASTM D1557.
- ALL ORGANIC AND/OR OTHER UNSUITABLE MATERIALS SHALL BE REMOVED FROM SUBGRADE AND BACKFILL AREAS AND BACKFILLED WITH ACCEPTABLE GRANULAR FILL, COMPACTED TO 95 PERCENT O MAXIMUM DENSITY. FILL SHALL BE PLACED IN LIFTS NOT TO EXCEED 12 INCHES IN LOOSE THICKNESS.
- DO NOT BACKFILL AGAINST BASEMENT WALLS UNTIL GROUND FLOOR AND LOWER LEVEL SLABS AVE BEEN PLACED AND THE CONCRETE HAS ATTAINED FULL DESIGN STRENGTH.
- NO MUD SLABS, FOOTINGS OR SLABS SHALL BE PLACED INTO OR AGAINST SUBGRADE CONTAINING FREE WATER, FROST OR ICE. SHOULD WATER OR FROST ENTER A FOOTING EXCAVATION AFTER SUBGRADE APPROVAL THE SUBGRADE SHALL BE RE-INSPECTED BY THE CONTRACTOR'S SOIL TESTING LABORATORY AFTER REMOVAL OF WATER OR FROST.
- THE CONTRACTOR SHALL PROVIDE ALL NECESSARY MEASURES TO PREVENT ANY FROST OR ICE FROM PENETRATING ANY FOOTING OR SLAB SUBGRADE BEFORE AND AFTER PLACING OF CONCRETE AND UNTIL SUCH SUBGRADES ARE FULLY PROTECTED BY THE PERMANENT BUILDING STRUCTURE.
- 10. THE CONCRETE FOR EACH ISOLATED FOOTING SHALL BE PLACED IN ONE (1) CONTINUOUS PLACEMENT.
- ALL SLAB AND FOOTING MUD SLABS SHALL BE THOROUGHLY CLEANED IMMEDIATELY PIOR TO THE FOUNDATION CONCRETE PLACEMENT.
- 12. ALL SLABS-ON-GRADE SHALL BE PLACED OVER A MINIMUM OF 6 INCH
- COMPACTED GRANULAR FILL MATERIAL OVER COMPACTED SOIL SUBGRADE. 13. THE ANTICIPATED GROUND WATER ELEVATION IS APPROXIMATELY 896.50. THE CONTRACTOR IS RESPONSIBLE FOR ALL DEWATERING. THE VERY LOOSE TO LOOSE GRANULAR SOILS SHOULD BE DENSIFIED AFTER DEWATERING, AS PER THE DIRECTIVE OF THE SOILS TESTING AGENCY.

CONCRETE NOTES:

- ALL CONCRETE SHALL CONFORM TO THE REQUIREMENTS OF ACI 318, ACI 301, AND ACI 350. THESE DOCUMENTS SHALL BE AVAILABLE IN THE FIELD OFFICF.
- EXCEPT WHERE OTHERWISE INDICATED, CONCRETE TYPES AND MINIMUM 28-DAY COMPRESSIVE STRENGTHS SHALL BE 4000 PSI.
- CEMENT SHALL CONFORM TO ASTM C150 TYPE 1. USE ONLY ONE BRAND OF CEMENT PER ALL EXPOSED TO VIEW CONCRETE. NO CALCIUM CHLORIDE SHALL BE USED IN ANY CONCRETE.
- ALL CONCRETE SHALL BE AIR ENTRAINED (4 6%) WITH A WATER CEMENT RATIO OF 0.4 (MAX) AND MAY CONTAIN A SUPER PLAST AGENT. REINFORCING BARS SHALL CONFORM TO ASTM A515, GRADE 60.
- ALL CONCRETE REINFORCEMENT SHALL BE DETAILED, FABRICATED, LABELED, SUPPORTED AND SPACED IN FORMS AND SECURED IN ACCORDANCE WITH THE PROCEDURES AND REQUIREMENTS OUTLINED IN THE LATEST EDITION OF THE 'MANUAL OF STANDARD PRACTICE FROM DETAILING REINFORCED CONCRETE STRUCTURES', ACI 315. BAR SUPPORTS IN CONTACT WITH EXPOSED SURFACES SHALL BE PLASTIC TIPPED.
- CHECKED SHOP DRAWINGS SHOWING REINFORCING DETAILS, INCLUDING STEEL SIZES, SPACING AND PLACEMENT SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO FABRICATION.
- THE CONTRACTOR SHALL SUBMIT DETAILED DRAWINGS SHOWING THE LOCATIONS OF ALL CONSTRUCTION JOINTS, REVEALS, CURBS, SLAB DEPRESSIONS, SLEEVES, OPENINGS, ETC. ALONG WITH THE CONCRETE POUR SEQUENCE SCHEDULES. THE MAXIMUM DISTANCE BETWEEN JOINTS SHALL BE 40 FT.
- 9. ALL REINFORCING SPLICES SHALL CONFORM TO THE REQUIREMENTS OF ACI 318, LATEST EDITION, BUT IN NO CASE SHALL BE LESS THAN 36 BAR DIAMETERS, UNLESS NOTED OTHERWISE. ALL WELDED WIRE FABRIC SHALL BE LAPPED TWO (2) FULL MESH PANELS AND TIED SECURELY. WHERE REQUIRED, DOWELS SHALL MATCH SIZE AND NUMBER OF MAIN REINFORCING, UNLESS NOTED OTHERWISE. THE LOCATION OF SPLICES FOR HORIZ. BARS SHALL BE STAGGERED BY A MIN. OF 3 FT. WITHIN THE SECTION. SPLICES SHALL NOT LINE UP WITHING ANY 4 ADJACENT ROWS.
- 10. CONCRETE TESTING WILL BE PERFORMED BY THE CONTRACTOR'S TESTING LABORATORY IN ACCORDANCE WITH ACI 301 EXCEPT AS FOLLOWS: FOR COMPRESSIVE STRENGTH TEST, TAKE ONE SET OF THREE (3) SPECIMENS FOR FOR EACH 50 CUBIC YARDS OR FRACTION THEREOF OF EACH CONCRETE CLASS PLACED IN ANY ONE DAY. TEST ONE (1) SPECIMEN AT 7 DAYS, ONE (1) SPECIMIN AT 28 DAYS, AND KEEP ONE (1) IN RESERVE.
- 11. PROVIDE SHEAR KEY AND WATERSTOP AT ALL CONSTRUCTION & CONTRACTION JOINTS.
- 12. PROVIDE CONTROL/CONSTRUCTION JOINTS IN SLABS ON GRADE NO FURTHER THAN 15 FEET APART
- 13. FOLLOW ACI GUIDELINES FOR BOTH HOT & COLD WEATHER CONCRETING.

MISCELLANEOUS NOTES:

- 1. NO CHANGE IN SIZE OR DIMENSION OF STRUCTURAL MEMBE BE MADE WITHOUT THE WRITTEN APPROVAL OF THE ENGINE
- 2. REFER TO ARCHITECTURAL, MECHANICAL, PROCESSING OR M DRAWINGS FOR LOCATIONS AND DIMENSIONS OF OPENINGS. REINFORCING AROUND OPENINGS PER TYPICAL DETAILS.
- 3. THE CONTRACTOR IS RESPONSIBLE FOR LIMITING THE AMOU CONSTRUCTION LOAD IMPOSED UPON STRUCTURAL FRAMING. CONSTRUCTION LOADS SHALL NOT EXCEED THE CAPACITY (FRAMING AT THE TIME THE LOADS ARE IMPOSED. BACKFIL SHALL NOT BE ALLOWED UNTIL WALLS REACH DESIGN STRE
- 4. BACKFILL SHALL NOT BE PLACED AGAINST WALLS UNTIL FLC INSTALLED AND HAVE REACHED 75% STRENGTH (MIN.).
- THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPC COMPLETION. THE CONTRACTOR SHALL FURNISH ALL TEMP BRACING AND/OR SUPPORTS REQUIRED AS THE RESULT OF CONTRACTOR'S CONSTRUCTION METHODS AND/OR SEQUENCE
- 6. DO NOT SCALE THESE DRAWINGS, USE DIMENSIONS.
- 7. THE CONTRACTOR SHALL INFORM THE ENGINEER IN WRITING DEVIATION FROM THE CONTRACT DOCUMENTS. THE CONTRA SHALL NOT BE RELIEVED OF THE RESPONSIBILITY FOR SUCH BY THE ENGINEERS APPROVAL OF SHOP DRAWINGS. PRODUC ETC. UNLESS THE CONTRACTOR HAS SPECIFICALLY INFORM ENGINEER OF SUCH DEVIATION AT THE TIME OF SUBMISSION ENGINEER HAS GIVEN WRITTEN APPROVAL TO THE SPECIFIC
- 8. ALL THINGS WHICH. IN THE OPINION OF THE CONTRACTOR. TO BE DEFICIENCIES, OMISSIONS, CONTRADICTIONS AND AMB IN THE PLANS AND SPECIFICATIONS, SHALL BE BROUGHT T ATTENTION OF THE ENGINEER. PLANS AND/OR SPECIFICAT WILL BE CORRECTED, OR A WRITTEN INTERPRETATION OF TH ALLEGED DEFICIENCY, OMISSION, CONTRADICTION OR AMBIGU WILL BE MADE BY THE ENGINEER BEFORE THE AFFECTED WO PROCEEDS.
- THESE DRAWINGS AND GENERAL NOTES ARE TO BE USED IN CONJUNCTION WITH WRITTEN SPECIFICATIONS PROVIDED. SE SPECIFICATIONS FOR FURTHER REQUIREMENTS.
- 10. REMOVE ALL LOOSE AND UNSTABLE MATERIAL BELOW STRUC ALL AREAS TO BE REVIEWED BY OWNERS TESTING AGENCY TO COMMENCEMENT OF WORK. PROVIDE A MINIMUM OF 12" GRANULAR FILL BELOW ALL STRUCTURES.
- 11. PROVIDE GUARDRAILS AT ALL PITS, WALKWAYS AND SLAB E SEE C & P DRAWINGS FOR FURTHER INFORMATION.
- 12. PROVIDE HYDROPHILIC RUBBER WATERSTOP AT ALL NEW TO CONDITIONS.
- 13. ALL FILL SHALL BE PLACED IN APPROPRIATE LIFTS AND COM PER GEOTECHNICAL REPORT IN ORDER TO OBTAIN A BEARIN CAPACITY OF 300 PSF. ALL FILL SHALL BE TESTED BY THE CONTRACTOR'S TESTING AGENCY.

PRECAST NOTES:

- . THE PRECAST MANUFACTURER SHALL BE RESPONSIBLE FOR OF ALL PRECAST CONCRETE ELEMENTS AND CONNECTIONS. SHALL MEET THE LOAD AND MATERIAL CRITERIA PRESENTED AND SPECIFICATIONS. DETAILS SHOWN ARE SCHEMATIC ONL DESIGN OF ELEMENTS AND CONNECTIONS SHALL BE MADE E PRECAST MANUFACTURER. IN ADDITION, THE DESIGN SHALL BY A STRUCTURAL ENGINEER LICENSED IN THE STATE OF KI & SEALED DRAWINGS AND CALCULATIONS SHALL BE SUBMIT ENGINEER FOR REVIEW.
- 2. THE PRECAST ERECTOR SHALL BE RESPONSIBLE TO ADEQUA THE STRUCTURE DURING CONSTRUCTION.
- 3. THE PRECAST ERECTOR SHALL BE RESPONSIBLE FOR THE PR HANDLING OF PRECAST ELEMENTS SO THAT THESE MEMBERS DAMAGED DUE TO HANDLING, BRACING, ALIGNING OR OTHER
- 4. MINIMUM CONCRETE REQUIREMENTS:

MIN 28 DAY COMPRESSIVE STRENGTH:

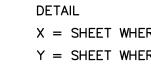
ENTRAINED AIR:

- W/C (MAX)
- 5. PRECAST SUPPLIER SHALL PROVIDE ADDITIONAL REINFORCING EMBEDDED CONNECTION ITEMS TO SUPPORT ANY VERTICAL HORIZONTAL LOADINGS WHICH MAY DEVELOP INCLUDING THOS FROM ERECTION.
- 6. PRECAST SHOP DRAWINGS SHALL BE REVIEWED AND APPROV ELECTRICAL. HEATING AND PLUMBING SUBCONTRACTORS TO COORDINATE LOCATION OF SUPPORT INSERTS, BLOCKOUTS, CONDUITS, ETC.
- 7. ALL INSERTS IN PRECAST ELEMENTS SHALL BE PROVIDED BY SUPPLIER.
- 8. PRECAST BEAMS SUPPORTING MASONRY SHALL HAVE A DEFL LIMITATION OF L/600 AND 0.3 INCHES FOR LIVE LOAD PLUS SUPERIMPOSED DEADLOAD.
- 9. PROVIDE 1 LAYER WIRE MESH IN CONCRETE TOPPING.
- 10. PRECAST CONCRETE CEILINGS SHALL BE AIR TIGHT AT LOCA NOTED.

PROCESS AND SHEET LEGEND:

SECTION

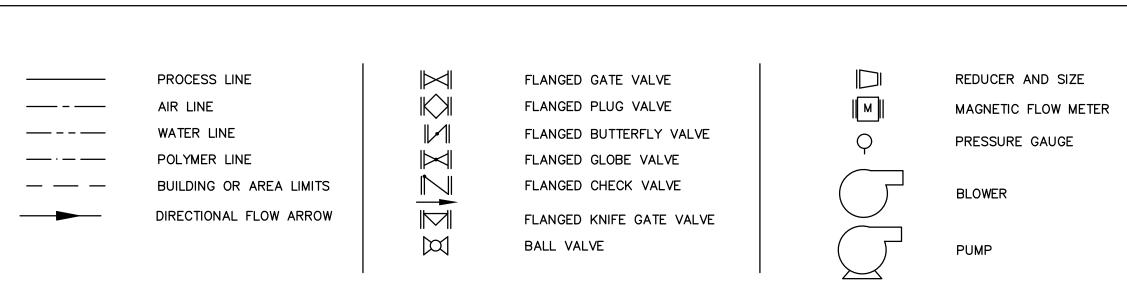
- X = SHEET WHERE SECTION IS REFERENCED
- Y = SHEET WHERE SECTION IS SHOWN
- 1 = SECTION NUMBER



X = SHEET WHERE DETAIL IS REFERENCED Y = SHEET WHERE DETAIL IS SHOWN

Z = DETAIL LETTER

		STRUCTURAL S		ABBRE	VIATIONS:
ERS SHALL IEER.	1.		PLATES, SHAPES AND BARS SHALL GR 50, UNLESS NOTED OTHERWISE. COLD	A ABBREV	ARCHITECTURAL ABBREVIATION
MANUFACT.		FORMED TUBING SHALL O SHALL CONFORM TO AST	2 GR 50, UNLESS NOTED OTHERWISE. COLD CONFORM TO ASTM A500 GRADE B. PIPES M A53 TYPE E OR S. ANCHOR BOLTS M A307 OR ASTM A36	ABDN AC	ABANDONED TO BE ABANDONED, CAP OPEN END
S. PROVIDE		SHALL CONFORM TO AST	M A307 OR ASTM A36.	ADF AE	AVERAGE DAILY FLOW ANALYZER ELEMENT
UNT OF	2.	ALL BOLTS (OTHER THAN	ANCHOR BOLTS), NUTS AND WASHERS REQUIREMENTS OF ASTM A325. BOLTS USED		ABOVE FINISH FLOOR AGGREGATE
G. OF THE		IN LATERAL LOAD RESIS	ANCHOR BOLIS), NUIS AND WASHERS REQUIREMENTS OF ASTM A325. BOLTS USED TING CONNECTIONS SHALL BE SLIP CRITICAL ICATED FORCES WITHOUT STRESS	AGG	ANALYZER INDICATING TRANSMITTER
LLING		TYPE, DESIGNED FOR IND INCREASES.	ICATED FORCES WITHOUT STRESS		ALUMINUM, AIR LIFT ALUMINUM SULFATE
ENGTH. LOOR SLABS ARE	٦		DONE BY OLIVIEED WELDERS AND SHALL	ALT APPROX	ALTERNATE APPROXIMATE(LY)
	0.	CONFORM TO AWS D1.1	DONE BY QUALIFIED WELDERS AND SHALL STRUCTURAL WELDING CODE', LATEST EDITION.	AR ARV	AIR RELEASE AIR RELEASE VALVE
PON	4.	ALL WELDING ELECTRODE ALL CONNECTIONS SHALL	S SHALL BE E70XX. BE DESIGNED AND DETAILED BY THE	ASPH	ASPHALT
PORARY F THE		FABRICATOR. THE CONNE	CTIONS SHALL BE DESIGNED BY, OR OF A LICENSED STRUCTURAL	AVG	AVERAGE
CES.		ENGINEER IN THE STATE	BE DESIGNED AND DETAILED BY THE CTIONS SHALL BE DESIGNED BY, OR OF, A LICENSED STRUCTURAL OF KENTUCKY. DETAILING SHALL BE NAL ENGINEERING DESIGN AND	B/ BCV	BOTTOM OF BALL CHECK VALVE
		STANDARD PRACTICE IN	ACCORDANCE WITH THE CONTRACT		BLIND FLANGE BELT FILTER PRESS
G OF ANY ≀ACTOR		DOCUMENTS. THE GENERA	AL DETAILS SHOWN ON THE DRAWINGS AND DO NOT INDICATE THE REQUIRED ELD SIZES, UNLESS SPECIFICALLY NOTED. MEDIATELY IF THE INFORMATION ON UFFICIENT FOR COMPLETE DESIGN OF	BFV BITUM	BUTTERFLY VALVE BITUMINOUS
CH DEVIATION		NUMBER OF BOLTS OR W	ELD SIZES, UNLESS SPECIFICALLY NOTED.	BLDG	BUILDING
JCT DATA, MED THE		THE DRAWINGS IS NOT S	UFFICIENT FOR COMPLETE DESIGN OF	BLV BLWR	BALL VALVE BLOWER
N, AND THE C DEVIATION.				BYP	BENCHMARK BYPASS
APPEAR	5.	THE FABRICATOR / EREC	TOR SHALL SUBMIT TO THE ENGINEER AND CHECKED DRAWINGS SHOWING	BPV BW	BACK PRESSURE VALVE BACKWASH
IBIGUITIES		SHOP FABRICATION DETA	ALL STRUCTURAL STEEL. WITH EACH	СВ	
TO THE TIONS		SUBMITTAL OF SHOP DR	ALL STRUCTURAL STEEL. WITH EACH		CATCH BASIN; CURB BOX CENTER TO CENTER
THE SUITY		SHALL CERTIFY THAT TH	E CONNECTIONS HAVE BEEN DESIGNED IN REQUIREMENTS OF THE AISC	CEB CF	CONCRETE EQUIPMENT BASE CUBIC FEET; COMPRESSION FITTING
WORK		SPECIFICATIONS AND THE	CONTRACT DOCUMENTS. CERTIFIED	CL2 CL2G	CHLORINE CHLORINE (GAS)
INI		MILL TEST REPORTS SHA		CL2L	CHLORINE (LIQUID)
IN SEE	6.		ES: CONNECTIONS SHALL BE DESIGNED IS INDICATED. IN CASES WHERE	CL2S CL2V	CHLORINE (SOLUTION) CHLORINE VENT
		REACTIONS ARE NOT IND	CATED, PROVIDE AT LEAST ONE HALF OF RYING CAPACITY OF THE BEAM WITH THE	CI CISP	CAST IRON CAST IRON SOIL PIPE
UCTURES. ′ PRIOR			RACED COMPRESSION FLANGE.	CL, 또 CLR	CENTER LINE CLEAR
2" COMPACTED	7.	THE DEPTH OF A SIMPLE	SHEAR CONNECTION SHALL NOT BE LESS	CMP	CORRUGATED METAL PIPE
			NOMINAL DEPTH OF THE BEAM. THE TS PER CONNECTION SHALL BE TWO (2).	CMU CO	CONCRETE MASONRY UNIT CLEANOUT
EDGES	8.		ABRICATED WITH THE NATURAL CAMBER UP.	CONC CPLG	CONCRETE, CONCENTRIC COUPLING
O EXISTING	0.		HORING AS INDICATED ON THE DRAWINGS.	CPVC CSP	CHLORINATED POLYVINYLCHLORIDE PIP CORRUGATED STEEL PIPE
	9.		STEEL SHALL BE CLEANED OF ALL RUST,	СТ	CONTACT TANK (PAA)
			OTHER FOREIGN MATERIALS. STRUCTURAL PPED GALVANIZED PER ASTM SPECIFICATIONS.	CTW CU	CLOSE TO WALL COPPER; CUBIC
lNG IE	10		_D CUTTING OF STRUCTURAL STEEL	CUP CV	CUPPER PIPE CHECK VALVE (SWING TYPE)
	10		K OF OTHER TRADES WITHOUT THE PRIOR	CW CY	CHAINWHEEL; CLOCKWISE CUBIC YARDS
				D DEMO	DOOR DEMOLITION
R THE DESIGN . THIS DESIGN		DESIGN LOADS	•	DET DI	DETAIL DUCTILE IRON
D IN THE PLANS NLY. FINAL		FLOOR LIVE LOADS -	150 PSF	DIA DIF	DIAMETER DIFFUSER
BY THE L BE PERFORMED		WALKWAY — ROOF LIVE LOAD —	100 PSF 30 PSF	DIP DISCH	DUCTILE IRON PIPE DISCHARGE
KENTUCKY. SIGNED)	ROOF SNOW LOADS -		DN DO	DOWN DISSOLVED OXYGEN
TTED TO THE		NOOL SNOW LOADS -	$P_q = 25 PSF$	DP DR	DEEP DRAIN
JATELY BRACE			$P_f = 18 PSF$	DS	DIGESTED SLUDGE
			$C_{e} = 1.0$	DV DWG	DIAPHRAGM VALVE DRAWING
PROPER			-	E	ELECTRIC(AL); EAST
RS ARE NOT R FORCES.			$C_{t} = 1.0$	ĒA ECC	EACH ECCENTRIC
			L = 1.1	EFF	EFFLUENT
		WIND DESIGN DATA -		EJ EL	EXPANSION JOINT ELEVATION
5,000 PSI			BASIC WIND SPEED $(3-SECOND GUST) = 90 MPH$	ENG EO	ENGINEER ELECTRIC OPERATOR
6 ± 1%			ASCE 7-05 I _e = 1.15	EOP EQ	EDGE OF PAVEMENT EQUAL(LY)
0.40			EXPOSURE B	EQPM ES	EQUIPMENT EXTENDED STEM
NG AROUND			COMPONENTS & CLADDING = 25 PSF	ESMT	EASEMENT
OR OSE		EARTH QUAKE DESIGN [ΑΤΑ	EXH EX	EXHAUST EXISTING
USL			OCCUPANCY CATEGORY = \parallel	EXP	EXPANSION
OVED BY			$I_{e} = 1.25$	FBW FCE	FILTER BACKWASH FINAL CLARIFIER EFFLUENT
)			$S_{S} = 0.178 \text{ g}$	FCO	FLOOR CLEANOUT
			$S_1 = 0.083 g$	FD FDC	FLOOR DRAIN FIRE DEPARTMENT CONNECTION
BY PRECAST			SITE CLASSIFICATION = D $S_{DS} = 0.204 \text{ g}$	FDN FDS	FOUNDATION FLOW DIVERSION STRUCTURE
				FE FES	FLOW ELEMENT FLARED END SECTION
FLECTION			$S_{D1} = 0.133 \text{ g}$	FF FH	FINISHED FLOOR FIRE HYDRANT
IS			SEISMIC DESIGN CATEGORY = C	FIN	FINISH(ED)
				FIT FL	FLOW INDICATING TRANSMITTER FLANGE(D); FLUSHING CONNECTION
ATIONS				FLD FLEX	FLOOD FLEXIBLE
				FLR	FLOOR
				FM FNPT	FORCEMAIN; FLOW METER FINE NATIONAL PIPE THREAD
				FP FRP	FIRE PROTECTION FIBERGLASS REINFORCED PLASTIC
				FS FT	FLOW SWITCH/FLOAT SWITCH FOOT/FEET
				F TG FUT	FOOTING FUTURE
				G	NATURAL GAS; GATE; GENERAL

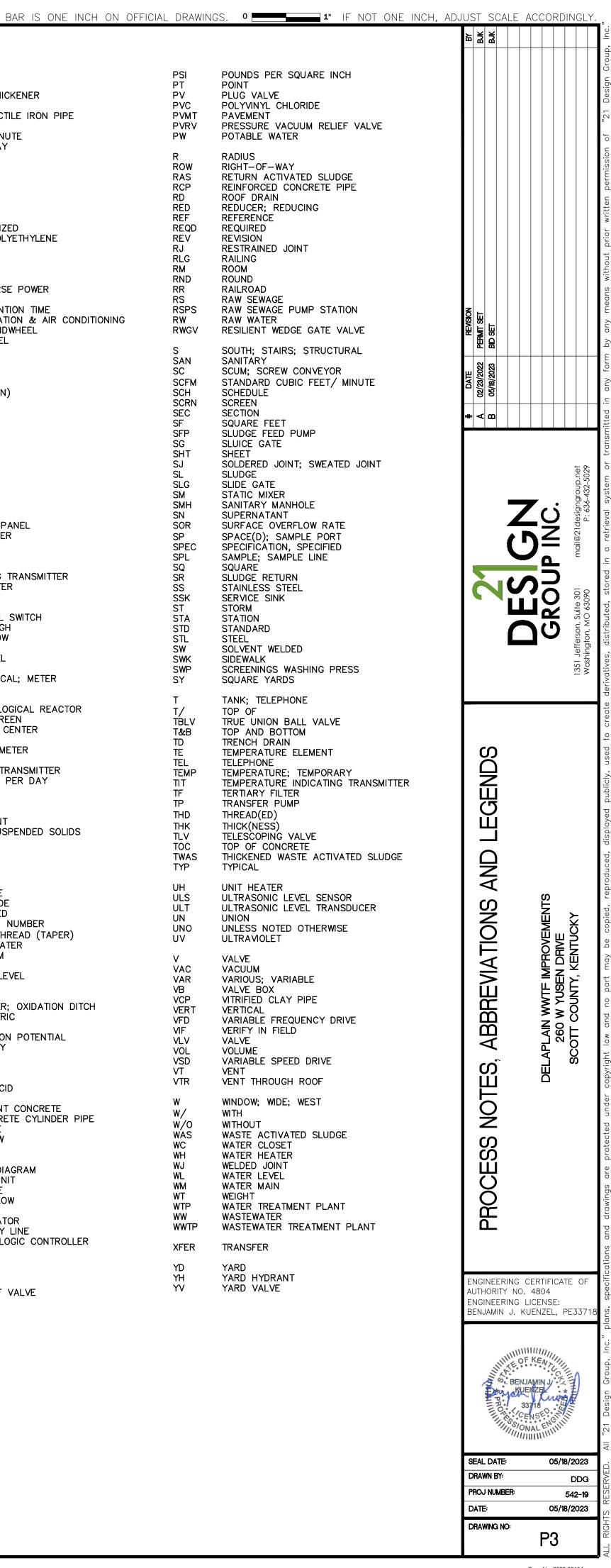


PRV

PS

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	BAR IS ONE INCH ON OFFI				
				R R R	
,	GALLON GALVANIZED	PSI PT	POUNDS PER SQUARE INCH POINT		
/	GRAVITY BELT THICKENER	PV	PLUG VALVE		
5	GENERATOR GLASS LINED DUCTILE IRON PIPE	PVC PVMT	POLYVINYL CHLORIDE PAVEMENT		
	GROUND	PVRV	PRESSURE VACUUM RELIEF VALVE		
	GALLONS PER MINUTE GALLONS PER DAY	PW	POTABLE WATER		
DR	GRADE	R ROW	RADIUS RIGHT-OF-WAY		
) }	GRINDER GRATING	RAS	RETURN ACTIVATED SLUDGE		
	GATE VALVE	RCP RD	REINFORCED CONCRETE PIPE ROOF DRAIN		
	HIGH	RED	REDUCER; REDUCING		
	HOSE BIBB HOT DIP GALVANIZED	REF REQD	REFERENCE REQUIRED		
Ξ	HIGH DENSITY POLYETHYLENE	REV	REVISION		
	HEADER HEIGHT	RJ RLG	RESTRAINED JOINT RAILING		
7	HANDHOLE	RM	ROOM		
Z	HORIZONTAL HIGH POINT; HORSE POWER	RND RR	ROUND RAILROAD		
	HOUR HYDRAULIC RETENTION TIME	RS RSPS	RAW SEWAGE RAW SEWAGE PUMP STATION	-	
2	HEATING, VENTILATION & AIR CONDITIONING	RW	RAW WATER	REVISION PERMIT SET BID SET	
	HOT WATER; HANDWHEEL HIGH WATER LEVEL	RWGV	RESILIENT WEDGE GATE VALVE		
		S	SOUTH; STAIRS; STRUCTURAL		
	INSIDE DIAMETER INCH	SAN SC	SANITARY SCUM; SCREW CONVEYOR	DATE 02/23/2022 05/18/2023	
_		SCFM	STANDARD CUBIC FEET/ MINUTE	DATE (/23/20	
R L	INSTRUMENT(ATION) INSULATION	SCH SCRN	SCHEDULE SCREEN	88	
	INVERT IRON PIPE	SEC SF	SECTION	# < m	
		SFP	SQUARE FEET SLUDGE FEED PUMP		
	JOINT	SG SHT	SLUICE GATE SHEET		
	LABORATORY	SJ	SOLDERED JOINT; SWEATED JOINT		ie ei
	LADDER LATERAL	SL SLG	SLUDGE SLIDE GATE		The second contract of
	LAVATORY	SM	STATIC MIXER		grou
	POUND POUNDS	SMH SN	SANITARY MANHOLE SUPERNATANT		
	LOCAL CONTROL PANEL	SOR	SURFACE OVERFLOW RATE		
	LEVEL TRANSDUCER LEVEL ELEMENT	SP SPEC	SPACE(D); SAMPLE PORT SPECIFICATION, SPECIFIED		
	LINEAR FEET LONG	SPL	SAMPLE; SAMPLE LINE		<u> </u>
	LEVEL INDICATING TRANSMITTER	SQ SR	SQUARE SLUDGE RETURN		
	LEVEL TRANSMITTER LOW POINT	SS SSK	STAINLESS STEEL SERVICE SINK		
	LONG RADIUS	ST	STORM		
	LUMP SUM, LEVEL SWITCH LEVEL SWITCH HIGH	STA STD	STATION STANDARD		G G B C C C C C C C C
	LEVEL SWITCH LOW	STL	STEEL		
	LIGHT LOW WATER LEVEL	SW SWK	SOLVENT WELDED SIDEWALK		1 Jef shinç
	MOTOR; MECHANICAL; METER	SWP	SCREENINGS WASHING PRESS		135 Wa
-	MATERIAL	SY	SQUARE YARDS		
	MAXIMUM	T ,	TANK; TELEPHONE		
R	MOVING BED BIOLOGICAL REACTOR	τ/			
२	MOVING BED BIOLOGICAL REACTOR MANUAL BAR SCREEN	T/ TBLV	TOP OF TRUE UNION BALL VALVE		
	MANUAL BAR SCREEN MOTOR CONTROL CENTER	TBLV T&B	TRUE UNION BALL VALVE TOP AND BOTTOM		
۲ ۲	MANUAL BAR SCREEN MOTOR CONTROL CENTER MECHANICAL MAGNETIC FLOW METER	TBLV T&B TD TE	TRUE UNION BALL VALVE TOP AND BOTTOM TRENCH DRAIN TEMPERATURE ELEMENT	Q	
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-T	MANUAL BAR SCREEN MOTOR CONTROL CENTER MECHANICAL MAGNETIC FLOW METER MANUFACTURER MAGNETIC FLOW TRANSMITTER MILLION GALLONS PER DAY MANHOLE MINIMUM MISCELLANEOUS MECHANICAL JOINT MIXED LIQUOR SUSPENDED SOLIDS MONUMENT MOUNTED MUD VALVE NORTH SODIUM CHLORIDE SODIUM HYDROXIDE NORMALLY CLOSED NORMALLY OPEN; NUMBER NATIONAL PIPE THREAD (TAPER) NON-POTABLE WATER NON-RISING STEM NOT TO SCALE NORMAL WATER LEVEL ON CENTER	TBLV T&B TD TE TEL TEMP TIT TF THD THK TLV TOC TWAS TYP UH ULS ULT UN UNO UV V VAC VAR VB VCP	TRUE UNION BALL VALVE TOP AND BOTTOM TRENCH DRAIN TEMPERATURE ELEMENT TELEPHONE TEMPERATURE; TEMPORARY TEMPERATURE INDICATING TRANSMITTER TERTIARY FILTER TRANSFER PUMP THREAD(ED) THICK(NESS) TELESCOPING VALVE TOP OF CONCRETE THICKENED WASTE ACTIVATED SLUDGE TYPICAL UNIT HEATER ULTRASONIC LEVEL SENSOR ULTRASONIC LEVEL SENSOR ULTRASONIC LEVEL TRANSDUCER UNION UNLESS NOTED OTHERWISE ULTRAVIOLET VALVE VACUUM VARIOUS; VARIABLE VALVE BOX VITRIFIED CLAY PIPE VERTICAL VARIABLE FREQUENCY DRIVE VERIFY IN FIELD VALVE VOLUME	ABBREVIATIONS AND	LAPLAIN WWTF IMPROVEMENTS 260 W YUSEN DRIVE SCOTT COUNTY, KENTUCKY
-T	MANUAL BAR SCREEN MOTOR CONTROL CENTER MECHANICAL MAGNETIC FLOW METER MANUFACTURER MAGNETIC FLOW TRANSMITTER MILLION GALLONS PER DAY MANHOLE MINIMUM MISCELLANEOUS MECHANICAL JOINT MIXED LIQUOR SUSPENDED SOLIDS MONUMENT MOUNTED MUD VALVE NORTH SODIUM CHLORIDE SODIUM HYDROXIDE NORMALLY CLOSED NORMALLY OPEN; NUMBER NATIONAL PIPE THREAD (TAPER) NON-POTABLE WATER NON-RISING STEM NOT TO SCALE NORMAL WATER LEVEL ON CENTER	TBLV T&B TD TE TEL TEMP TIT TF THD THK TLV TOC TWAS TYP UH ULS ULT UN UNO UV V VAC VAR VB VCP	TRUE UNION BALL VALVE TOP AND BOTTOM TRENCH DRAIN TEMPERATURE ELEMENT TELEPHONE TEMPERATURE; TEMPORARY TEMPERATURE INDICATING TRANSMITTER TERTIARY FILTER TRANSFER PUMP THREAD(ED) THICK(NESS) TELESCOPING VALVE TOP OF CONCRETE THICKENED WASTE ACTIVATED SLUDGE TYPICAL UNIT HEATER ULTRASONIC LEVEL SENSOR ULTRASONIC LEVEL TRANSDUCER UNION UNLESS NOTED OTHERWISE ULTRAVIOLET VALVE VACUUM VARIOUS; VARIABLE VALVE BOX VITRIFIED CLAY PIPE VERTICAL VARIABLE FREQUENCY DRIVE VERIFY IN FIELD VALVE VOLUME VARIABLE SPEED DRIVE VENT	3, ABBREVIATIONS AND	DELAPLAIN WWTF IMPROVEMENTS 260 W YUSEN DRIVE SCOTT COUNTY, KENTUCKY
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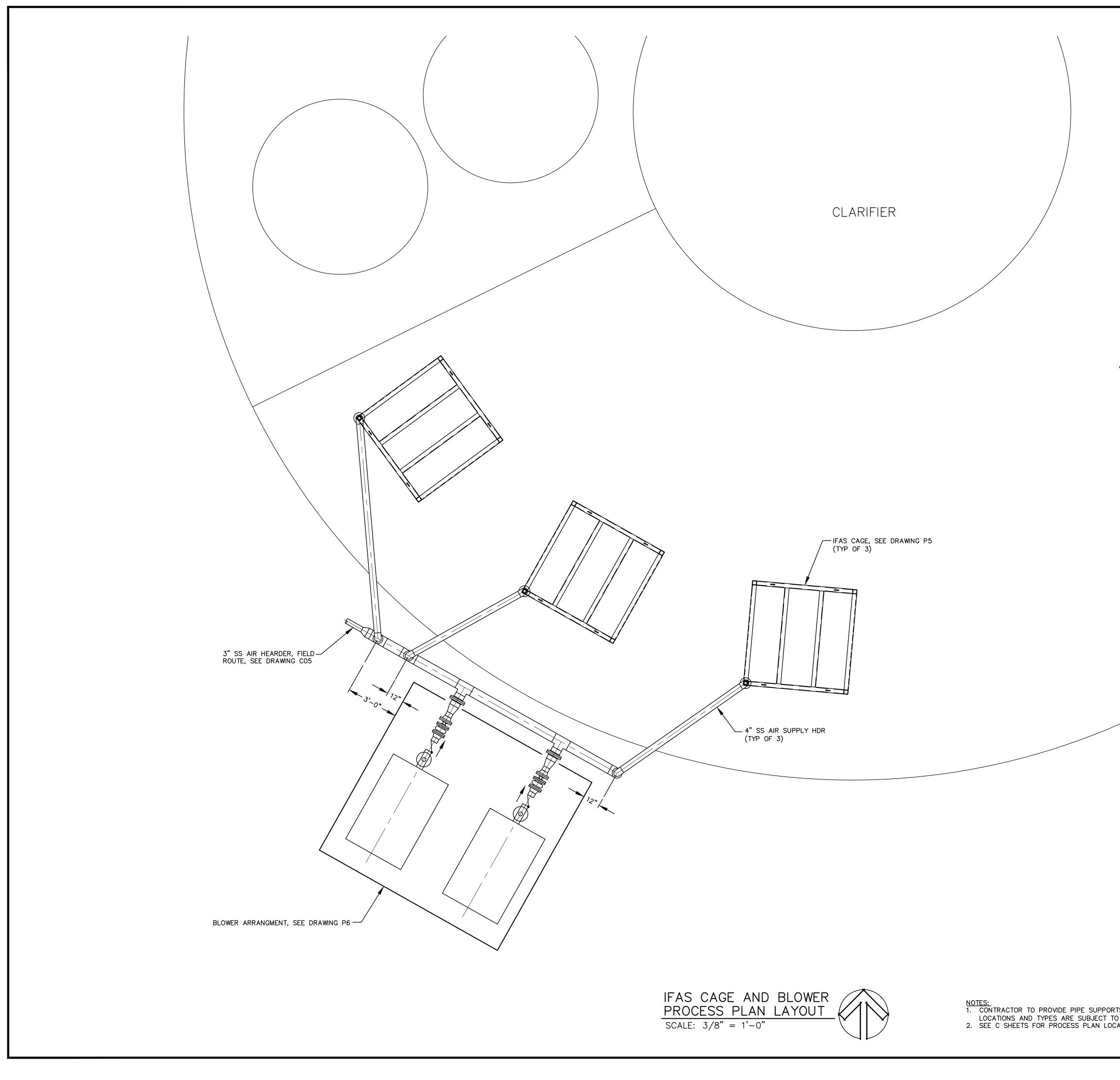
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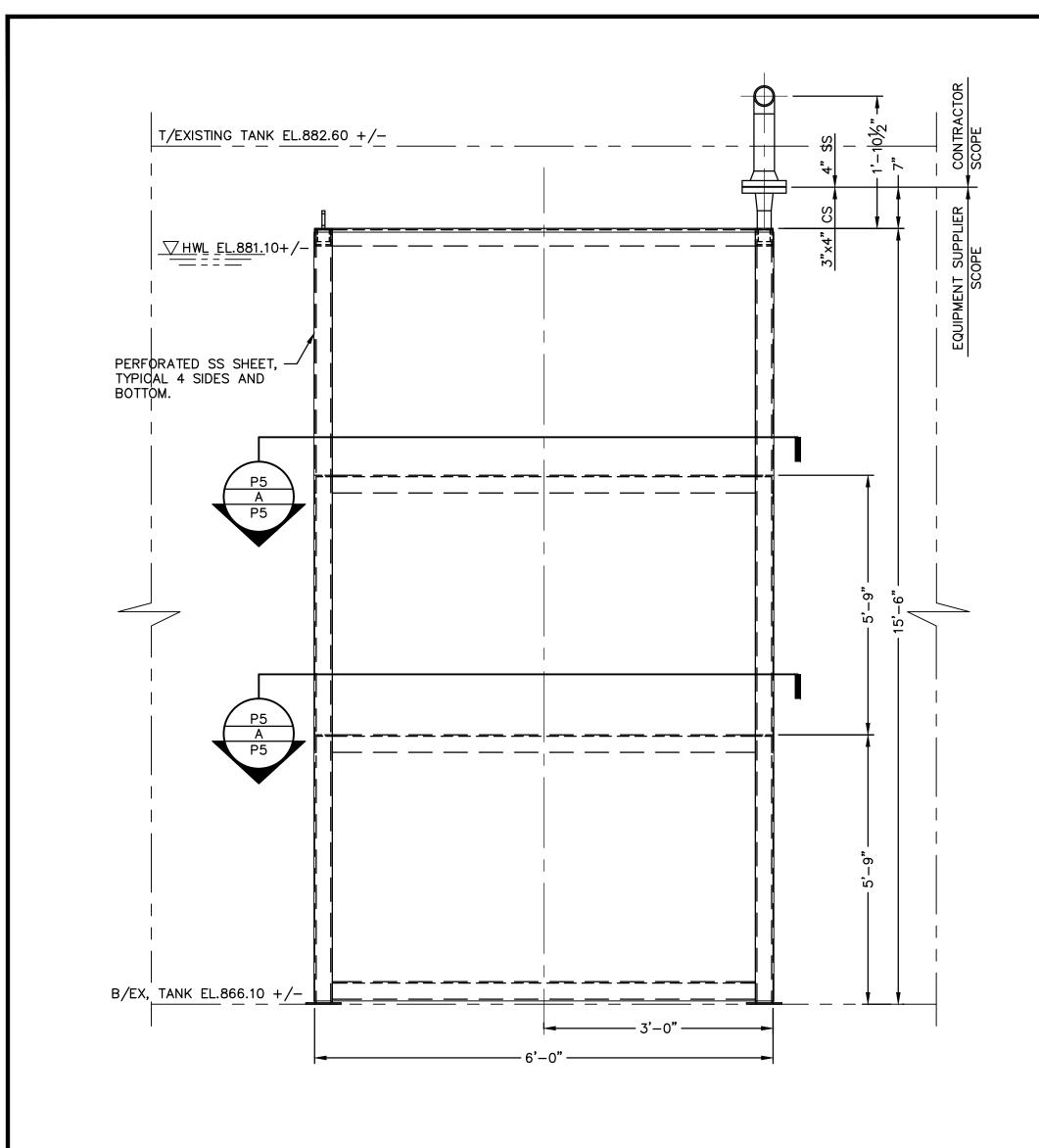
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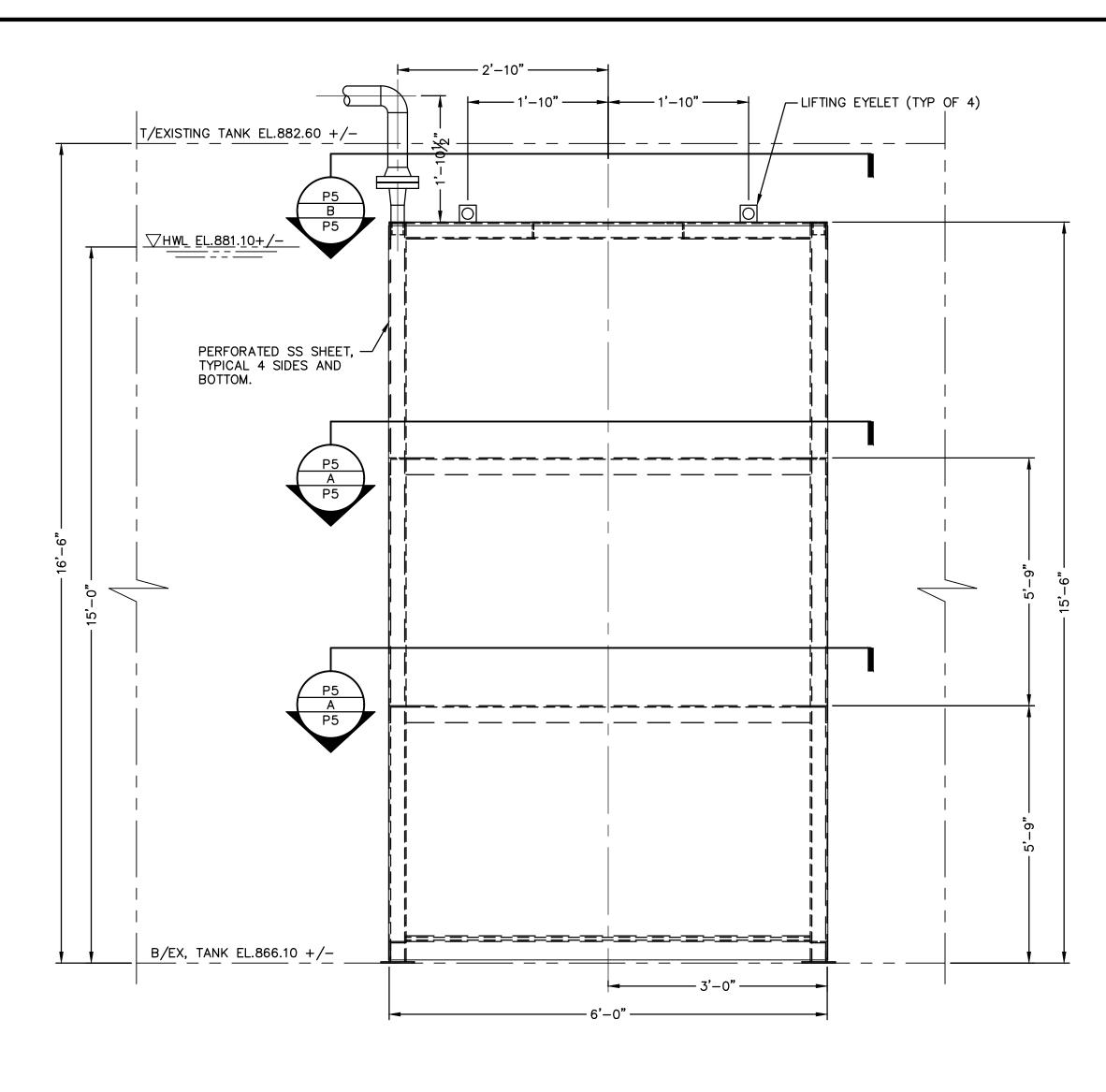
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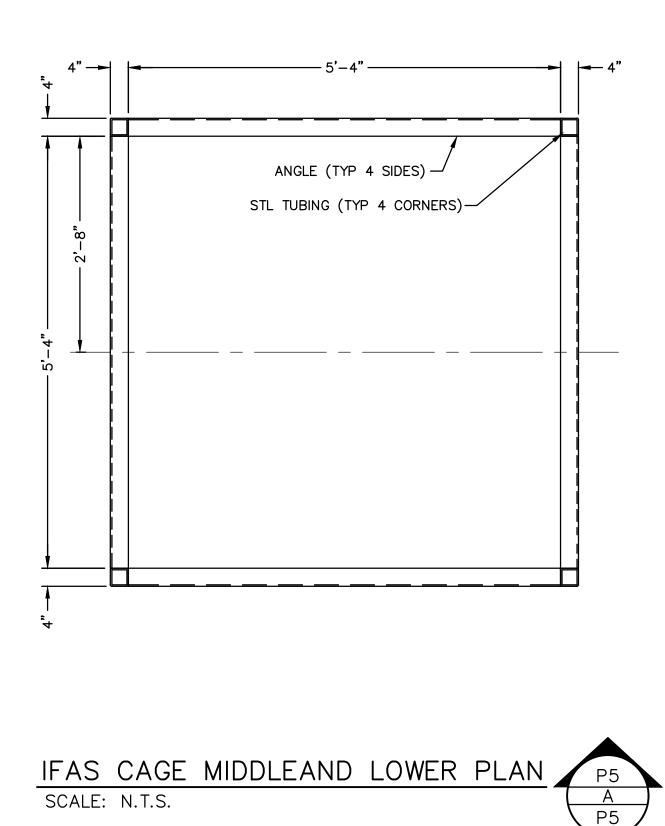
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RTS AS REQUIRED. SUPPORT TO ENGINEER'S APPROVAL. CATIONS.	ENGINEERING CERTIFICATE OF AUTHORITY NO. 4804 ENGINEERING LICENSE: BENJAMIN J. KUENZEL, PE333718 BENJAMIN J. KUENZEL, PE337

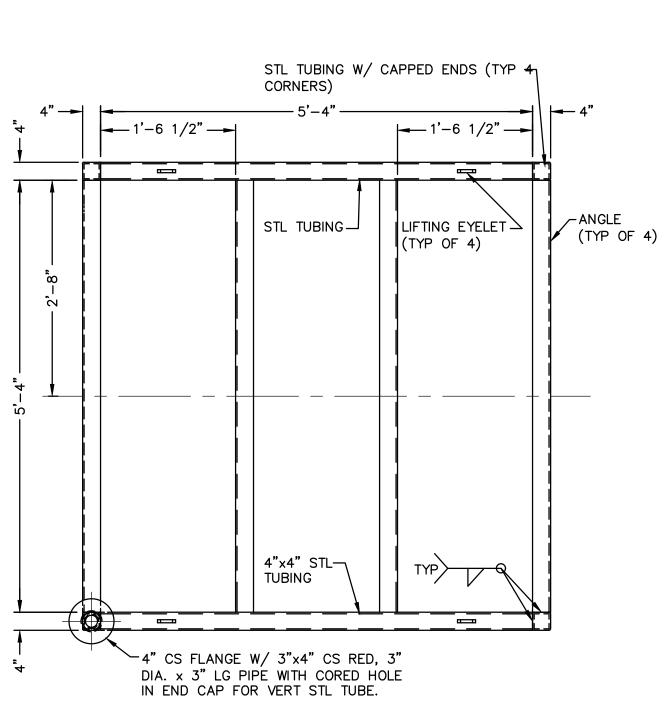


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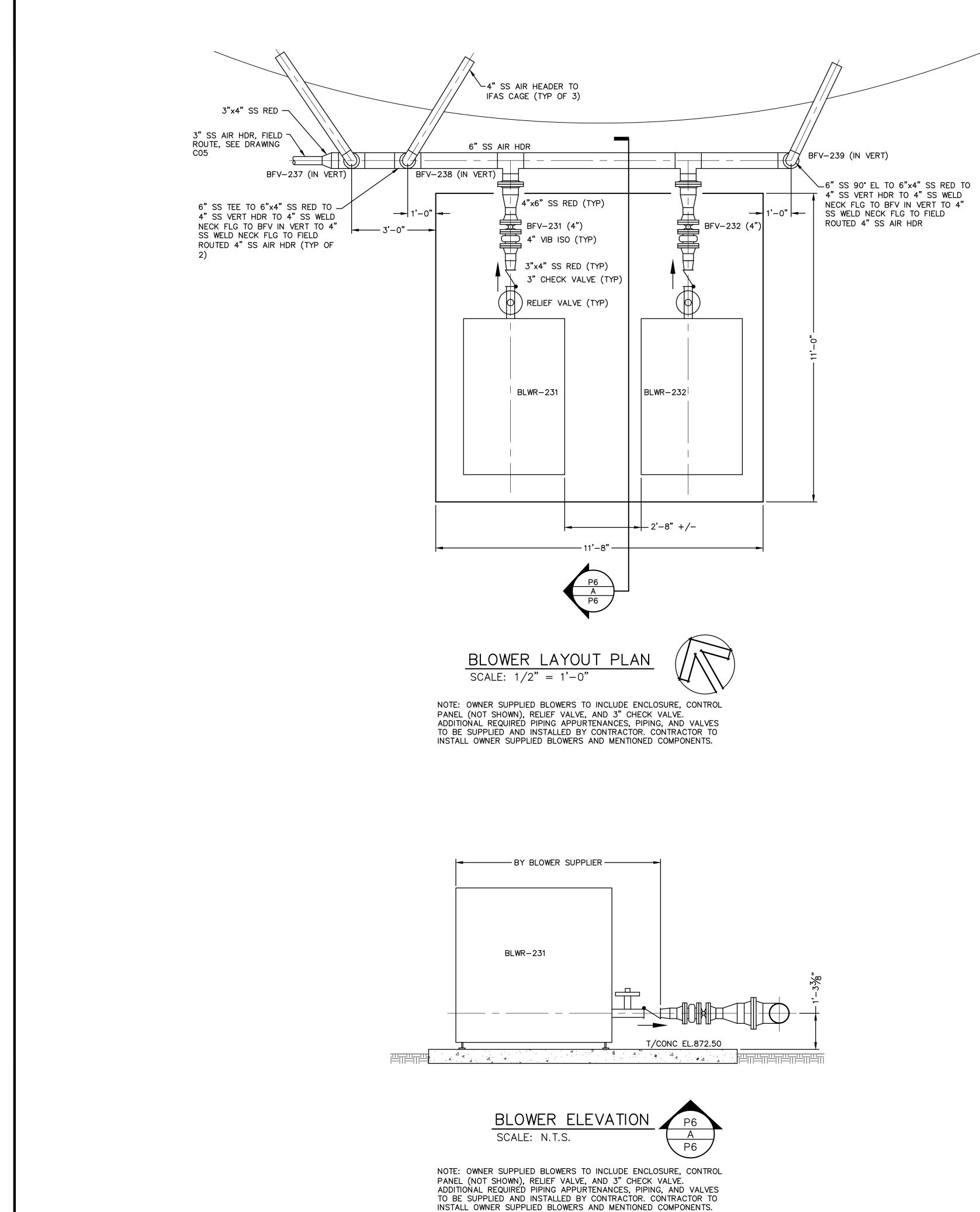
NOTES: 1. ALL WELDS TO BE AIR/ WATER TIGHT. 2. INSULATION GASKET TO BE USED BETWEEN 4" CS FLANGE AND 4" SS WELD NECK FLANGE ON AIR SUPPLY LINE CONNECTION. 3. INDUSTRIAL NETTING TO BE INSTALLED ON ALL 4 SIDES OF THE IFAS CAGE AND TO BE SECURED TO STL FRAME PER NETTING MFR RECOMMENDATIONS. 4. ALL WELDING ON IFAS CAGE TO BE PER BEST PRACTICES, APPLICABLE CODES AND AS REQUIRED FOR THE MATERIAL AND MATERIAL THICKNESS USED.	ONE INCH, ADJUST SCALE ACCORDINGLY.
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TYP TYP S RED, 3" RED HOLE TUBE.	ENGINEERING CERTIFICATE OF AUTHORITY NO. 4804 ENGINEERING LICENSE: BENJAMIN J. KUENZEL, PE33718
PLAN P5 B P5	SEAL DATE: 05/18/2023 DRAWN BY: DDG PROJ NUMBER: 542-19 DATE: 05/18/2023 DRAWING NO: P5

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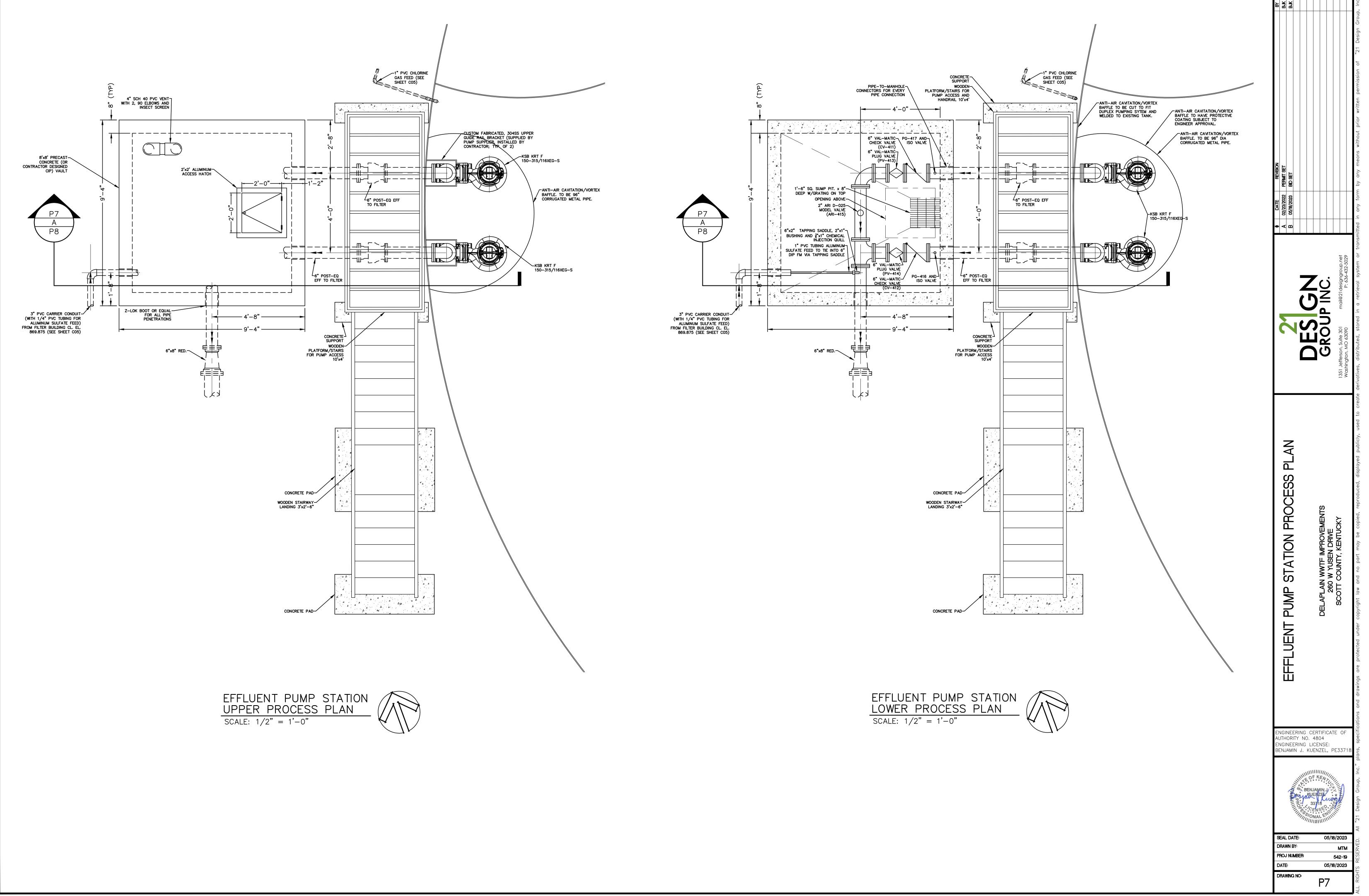


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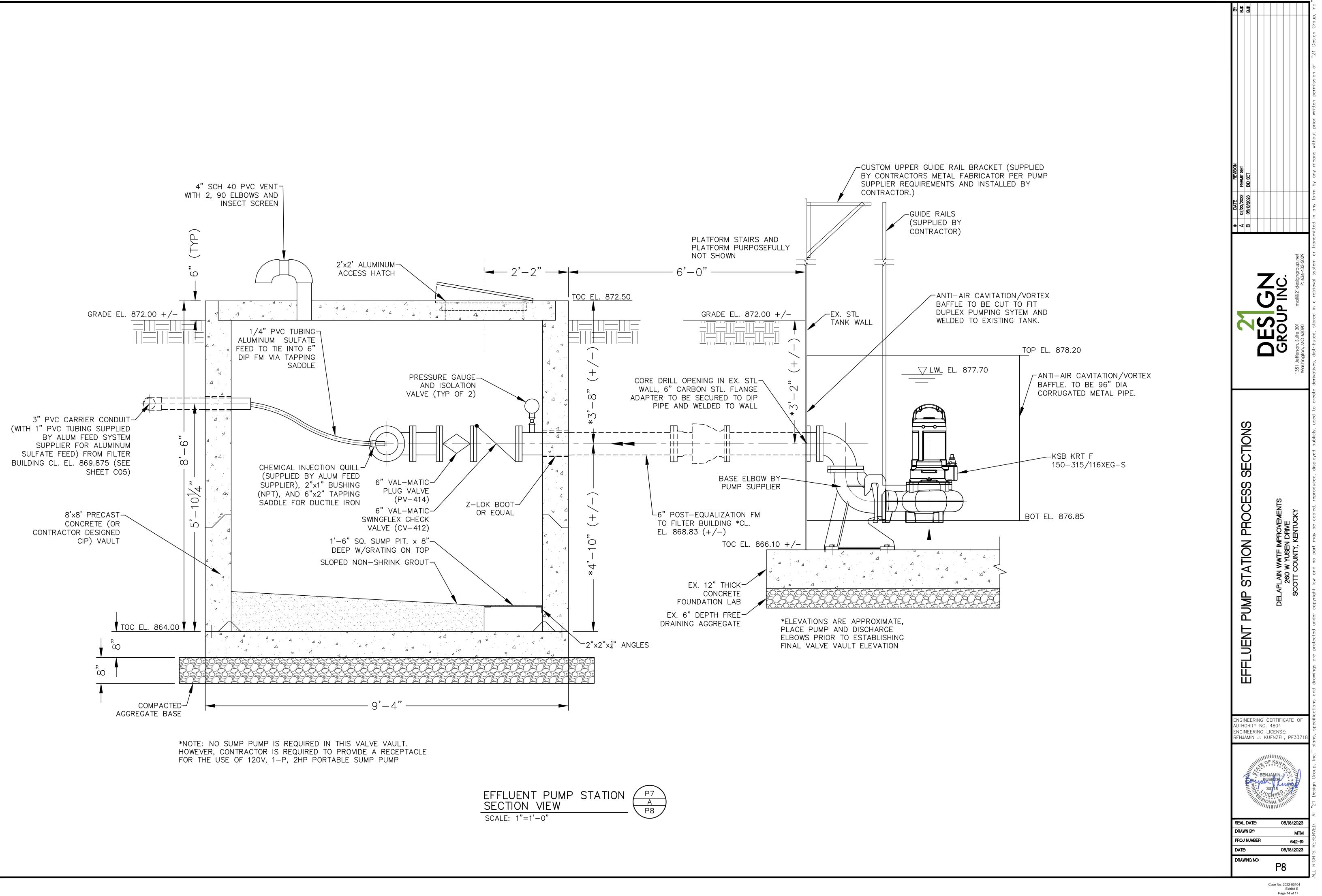
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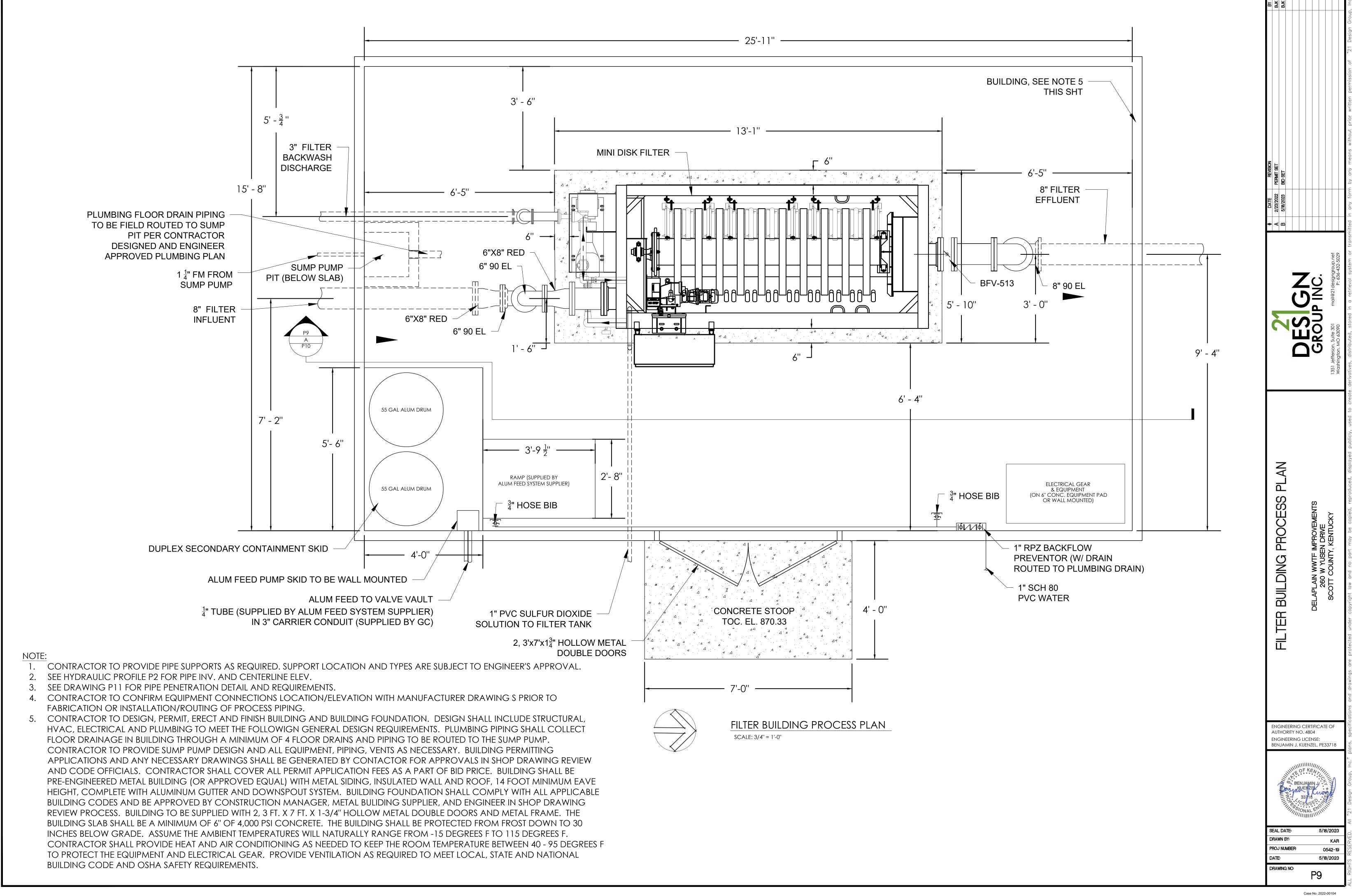
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NOTES: 1. CONTRACTOR TO PROVIDE PIPE SUPPORTS AS REQUIRED. SUPPORT	DATE: DRAWING NO:	05/18/2023
LOCATIONS AND TYPES ARE SUBJECT TO ENGINEER'S APPROVAL.		P6
		Case No. 2022-00104 Exhibit E Page 12 of 17



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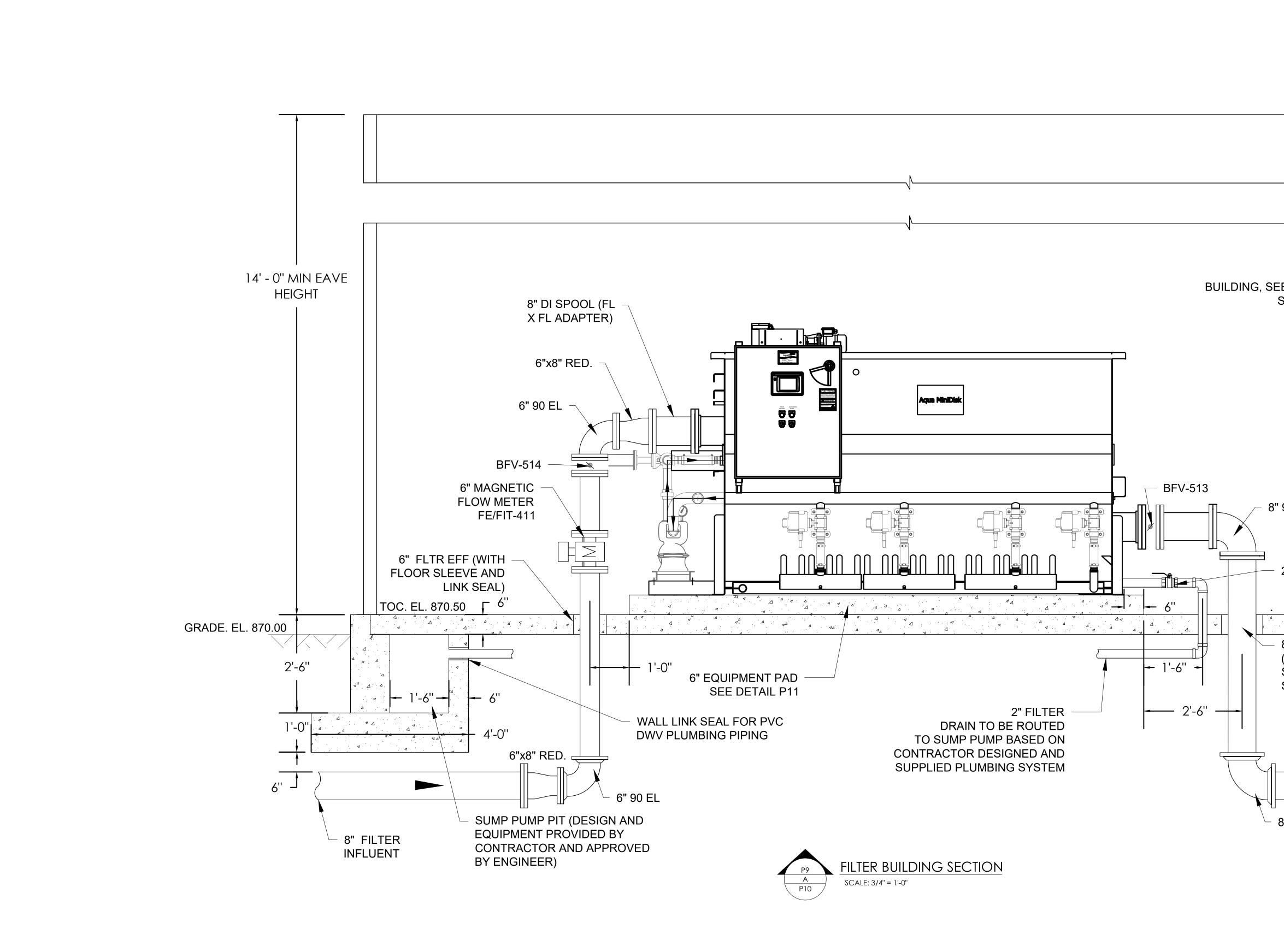


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Exhibit E Page 15 of 17



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	ENGINEERING CERTIFICATE OF AUTHORITY NO. 4804 ENGINEERING LICENSE: BENJAMIN J. KUENZEL, PE33718 BENJAMIN J. KUENZEL, PE33718

