## SECONDARY CLARIFIER REHABILITATION

FOR

## CITY OF PLYMOUTH WASTEWATER TREATMENT PLANT PLYMOUTH, WISCONSIN

INDEX TO DRAWINGS

DWG NO. TYPE

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TYPE

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MECHANICAL

DRAWING DESCRIPTION

ABBREVIATIONS LEGEND
SECTION AND DETAIL IDENTIFICATION
PROJECT IDENTIFICATION PLAN

PLAN AND SECTION

DRAWINGS PREPARED BY

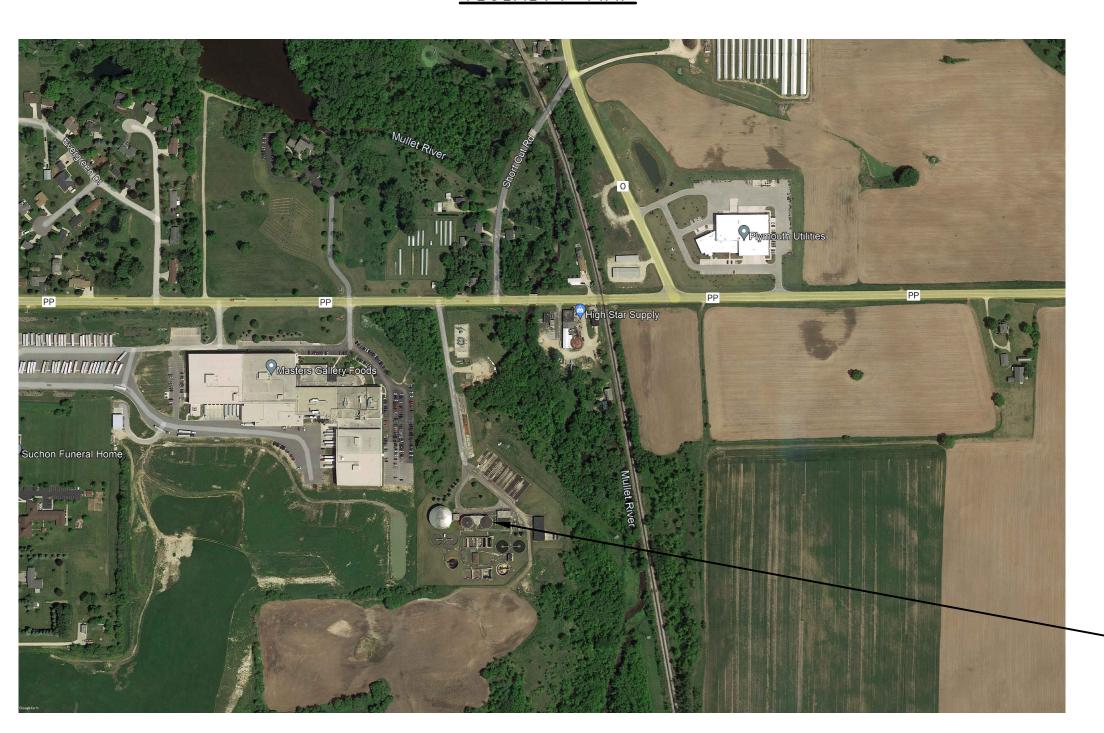


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PROJECT ADDRESS

CITY OF PLYMOUTH
WASTEWATER TREATMENT PLANT
COUNTY ROAD PP
PLYMOUTH, WISCONSIN 53073

## VICINITY MAP



SITE LOCATION



FOR BIDDING AND CONSTRUCTION SEPTEMBER 2025

008 600-2303641 00:08 get 00:00 1:00:00-2-009 MOD

ADDDC	<u>VIATIONS</u>									FLOW STREAM IDENTIFICATION
ADDRE	VIA I IUNS	с то с	CENTER TO CENTER	HD	HUB DRAIN	OC	ON CENTER	SHT SHS	SHEET FOLD-UP SHOWER SEAT	
AAD	AUTOMATIC CONTROL AIR DAMPER	CTOP	COUNTERTOP	HDNR HDR	HARDENER HEADER	OD	OUTSIDE DIAMETER	SHTG	SHEETING	<u>LEGEND</u> <u>SERVICE</u>
A/B	AERATION BASIN ANCHOR BOLT	CTR CTRD	CENTER CENTERED	HDR HGT	HEIGHT	OD OE	OVERFLOW DRAIN OUTSIDE FACE	S.I. SIM	SUPER IMPOSED SIMILAR	—— ACL —— ACETYLENE GAS —— SEP —— SEPTAGE —— AE —— AERATED EFFLUENT —— SHC— SODIUM HYPOCHLORITE
ABDN	ABANDONED	CU FT	CUBIC FEET	HM	HOLLOW METAL	0/H	OVERHEAD	SLV	SHORT LEG VERTICAL	——————————————————————————————————————
ACBD	ACOUSTICAL BOARD AIR COOLED COMPRESSOR/CONDENSING UNIT	CUH	CABINET UNIT HEATER	HO HORIZ	HAND OPERATED HORIZONTAL	OHDR	OVERHEAD DOOR	S.O.	SHUTOFF	——————————————————————————————————————
ACST	ACOUSTICAL TILE	CVA	CHECK VALVE CENTRAL ANGLE	HP	HORSEPOWER	OPNG	OPENING	SPECD SPECS	SPECIFIED SPECIFICATIONS	——————————————————————————————————————
ACT	ACOUSTICAL	DBA	DEFORMED BAR ANCHOR	HR	HOUR	OPP ORIG	OPPOSITE ORIGINAL	SPG	SPACING	——————————————————————————————————————
AD ADDL	AREA DRAIN ADDITIONAL	DBL	DOUBLE	HVAC HWP	HEATING, VENTILATING, & AIR CONDITIONING HOT WATER PUMP	OSHA	OCCUPATIONAL SAFETY AND HEALTH ACT	SQ SQF	SQUARE SEAMLESS QUARTZ FLOORING	
ADJ	ADJACENT	DECHLOR DEMO	DECHLORINATION DEMOLISH, DEMOLITION	HWY	HIGHWAY	0 TO 0	OUT TO OUT	SS	SUBSTATION	——————————————————————————————————————
AFF AHR	ABOVE FINISHED FLOOR ANCHOR	DEPT	DEPARTMENT	HX HYD	HEAT EXCHANGER HYDRANT	OZ	OUNCE	SSTL ST	STAINLESS STEEL SHUNT TRIP	BATCH TANK FEED TEFL TREATMENT EFFLUENT
AL	ALUMINUM	DET DH	DETAIL DEHUMIDIFIER			PAWS	PLASTIC ADHESIVE WATER STOP PROCESS AND INSTRUMENTATION DIAGRAM	STA	STATION	——————————————————————————————————————
ALTN ANOD	ALTERNATE ANODIZED	DIA	DIAMETER	I&C	INSTRUMENTATION AND CONTROL INSIDE DIAMETER	P&ID PBX	PROCESS AND INSTRUMENTATION DIAGRAM PULL BOX	STD STIF	STANDARD STIFFENER	CGV ————————————————————————————————————
APPROX	APPROXIMATE	DIAG DIM	DIAGONAL DIMENSION	IE	INVERT ELEVATION	PC	POINT OF CURVATURE	STOR	STORAGE	——————————————————————————————————————
APVD ARCH	APPROVED ARCHITECTURAL	DIP	DUCTILE IRON PIPE	IF IC	INSIDE FACE INSULATING GLASS	P/C PCJ	PRIMARY CLARIFIERS PARTIAL CONTRACTION JOINT	STR STRUCT	STRAIGHT STRUCTURAL	——CS —— CHLORINE SOLUTION ——CSM —— CONCENTRATED SCUM ——WAS —— WASTE ACTIVATED SLUDGE
AS	AIR SCRUBBER	DIR DISCH	DIRECTION DISCHARGE	IN.	INCHES	PE DE	PLAIN END	STL	STEEL	
ASPH ASSY	ASPHALT ASSEMBLY	DM	DIGITAL METER	INFL INSTL	INFLUENT INSTALL	PH PH	PROPELLER FAN PHASE	SUSP SYM	SUSPENDED SYMMETRICAL	——————————————————————————————————————
ASU	CENTRAL STATION AIR HANDLING UNIT	DN DRWR	DOWN DRAWER	INSUL	INSULATION	PI	POINT OF INTERSECTION	SYS	SYSTEM	——————————————————————————————————————
AUTO	AUTOMATIC AUXILIARY	DS	DOWNSPOUT	INVT ITG	INVERT INSULATED TEMPERED GLASS	PJF PL	PREMOLDED JOINT FILLER PROPERTY LINE	Т	TANGENT LENGTH	——————————————————————————————————————
AVG	AVERAGE	DWG DWL	DRAWING DOWEL	110	INSULATED TETT ENED GEASS	PL	PLATE (STRUCT)	Т	THERMOSTAT	——————————————————————————————————————
	BOILER	DWL		JAN. JB	JANITOR JUNCTION BOX	PLAM PLAS	PLASTIC LAMINATE PLASTER	T T&B	TREAD TOP AND BOTTOM	——————————————————————————————————————
BB	BUILER BAD BRICK	E E	EAST EXTERNAL	JT	JOINT	PLBG	PLUMBING	T&G	TONGUE AND GROOVE	DMW DEMINERALIZED WATER
BC	BOOSTER COIL	EA	EACH	K C	KILOGRAM	PLYWD POC	PLYWOOD POINT ON CURVE	TOC TOW	TOP OF CONCRETE TOP OF WALL	——————————————————————————————————————
BDRY	BOARD BOUNDARY	ECC EDH	ECCENTRIC ELECTRIC DUCT HEATER	KG KM	KILOGRAM KILOMETER	POS	POSITION	TEMP	TEMPERATURE	——DT ——DRAIN TILE ——DW ——DISTILLED WATER
BETW	BETWEEN BOTTOM FACE	EF	EACH FACE	KVA	KILOVOLT-AMPERE	POT PR	POINT ON TANGENT PAIR	TF TG	TOP FACE TEMPERED GLASS	EMDV EMERGENCY DIVERSION
BFP	BOTTOM FACE BACK FLOW PREVENTOR	EFL EHD	EFFLUENT ELECTRIC HAIR DRYER	L	LENGTH	PRO	PROPOSED	THK	THICK	——————————————————————————————————————
BFVA	BUTTERFLY VALVE	EL	ELEVATION	L L	LENGTH OF CURVE ANGLE	PRCST PREFAB	PRECAST PREFABRICATED	THD TO	THREADED TOP OF	———FC——— FERRIC CHLORIDE ———FESU ——— FERRIC SULFATE
BLDG	BITUMINOUS BUILDING	ELB ELEC	ELBOW ELECTRICAL	LAB	LABORATORY	PREP	PREPARATION	TOS	TOP OF STEEL	FLT — FLOAT — FIBER OPTIC
BLVD	BOULEVARD	ELEV	ELEVATOR	LAM LAV	LAMINATE LAVATORY	PS PSF	PUMP STATION POUNDS PER SQUARE FOOT	TOT TP	TOTAL TOWEL PIN	FP — FIRE PROTECTION ——FPF — FILTER PRESS FEED
BM BM	BEAM BENCH MARK	ENCL EQ	ENCLOSURE, ENCLOSED EQUAL	LB	POUNDS	PSI	POUNDS PER SQUARE INCH	TPD	TONS PER DAY	———— G ——— NATURAL GAS
BOD	BOTTOM OF DUCT	EQ SP	EQUALLY SPACED	LB/D LCP	POUNDS PER DAY LOCAL CONTROL PANEL	PT PTD	POINT OF TANGENCY PAPER TOWEL DISPENSER	TPI TRANSV	TURNOUT POINT OF INTERSECTION TRANSVERSE	GR GRIT SLURRY  GRE GRAVITY THICKENER EFFLUENT
BOD 5	BIOCHEMICAL OXYGEN DEMAND (5 DAY TEST)	EQUIP EW	EQUIPMENT EACH WAY	LCUS	LOAD CENTER UNIT SUBSTATION	PTD/R	PAPER TOWEL DISPENSER/RECEPTACLE	TSS	TOTAL SUSPENDED SOLIDS	——————————————————————————————————————
ВОР	BOTTOM OF PIPE	EWC	ELECTRIC WATER COOLER	LG LH	LONG LEFT HAND	PVA	PLUG VALVE	TTC TTD	TELEPHONE TERMINAL CABINET TOILET TISSUE DISPENSER	——————————————————————————————————————
BOT BRG	BOTTOM BEARING	EXCAV EXF	EXCAVATE, EXCAVATION EXHAUST FAN	LIW	LOAD INDICATING WASHERS	PVC PVC	POINT OF VERTICAL CURVATURE POLYVINYL CHLORIDE	TYP	TYPICAL	——— HE ———— HELIUM GAS ———— HPHW ——— HIGH PRESSURE HOT WATER
BVA	BALL VALVE	EXP JT	EXPANSION JOINT	LLV LNTL	LONG LEG VERTICAL LINTEL	PVI	POINT OF VERTICAL INTERSECTION	UF	UTILITY FAN	
CAB.	CABINET	EXST EXT	EXISTING EXTERIOR	LONG	LONGITUDINAL	PVMT PVT	PAVEMENT POINT OF VERTICAL TANGENCY	UG LIHE	UNDERGROUND ELECTRIC UNIT HEATER	
CAF	CABINET FAN	FAB	FABRICATION	LOS LPT	LOCKOUT STOP PUSH BUTTON LOW POINT	PWS	PVC WATER STOP	UHG	GAS UNIT HEATER	
CARP.	CARPET CATCH BASIN	FACIL FB	FACILITY FLAT BAR	LR	LONG RADIUS	PWW	PROCESS WASTEWATER	uhw und	HOT WATER UNIT HEATER UNLESS NOTED OTHERWISE	HWWS HEATED WASTEWATER SUPPLY
CC	COOLING COIL	FCTY,FACT.	FACTORY	LT LV	LIGHT LABORATORY VACUUM	QC QDRNT	QUALITY CONTROL QUADRANT	UPS	UNINTERRUBTIBLE POWER SUPPLY	
C/C CFF	CHLORINE CONTACT CEILING EXHAUST FAN	FD	FLOOR DRAIN	LV	LOW VOLTAGE	QUANT	QUADRANT	USGS	UNITED STATES GEOLOGICAL SURVEY	
CEM	CEMENT	FDN FDR	FOUNDATION FEEDER	М	METER	R R OR RAD	R-VALUE (INSULATION) RADIUS	V	VENT VALVE	IWD INDUSTRIAL WASTE FLOOR DRAINSIW2 INDUSTRIAL WASTE METALS
CEM PLAS CF	CEMENT PLASTER CENTRIFUGAL FAN	FEXT F FL EL	FIRE EXTINGUISHER FINISHED FLOOR ELEVATION	M & BH MAN	MOP & BROOM HOLDER MANUAL	R	RISER	VAC	VACUUM	IWO INDUSTRIAL WASTE OILIWR INDUSTRIAL WASTE RETURN
CFM	CUBIC FEET PER MINUTE	FLL	FLOW LINE ELEVATION	MATL	MATERIAL	RC RCP	REINFORCED CONCRETE REINFORCED CONCRETE PIPE	VB VCB	VINYL BASE VITRIFIED CLAY PIPE	——————————————————————————————————————
CG CH	CORNER GUARD COAT HOOK	FLEX	FLEXIBLE FLANGE	MAX MR	MAXIMUM MACHINE BOLT	RD	ROOF DRAIN	VCT	VINITIED CEAT FIFE VINYL COMPOSITION TILE	———LPO ———— LIQUID POLYMER ———LSW ————————LOW STRENGTH WASTE
CHEM	CHEMICAL	FLG FLR	FLOOR	MCC	MOTOR CONTROL CENTER	REC RED	RECESSED EXTINGUISHER CABINET REDUCER	VD VE	MANUAL AIR VOLUME DAMPER VEHICLE EXHAUST SYSTEM	—— ML —— MIXED LIQUOR
CHKD	CHECKERED CAST IRON	FNSH FP	FINISH FIN TUBE CONVECTOR	MD MEMB	MOTORIZED DAMPER MEMBRANE	REF	REFERENCE	VERT	VERTICAL VERTICAL	N
E CJ	CONSTRUCTION JOINT	FP FR	FIN TUBE CONVECTOR FIRE RATED	MECH	MECHANICAL	REFR REHAB	REFRIGERATOR REHABILITATION	VIF	VERIFY IN FIELD	NPW————————————————————————————————————
2:38p Cr Cr	CENTER LINE CEILING	FRP FT	FIBERGLASS REINFORCED PLASTIC	MEZZ MFG	MEZZANINE MANUFACTURING	REINF	REINFORCE	VOLT	VOLUME VOLTAGE	OXYGEN GAS
CLO	CLOSET	F TO F	FEET, FOOT FACE TO FACE	MFR	MANUFACTURER	REQD RESIL	REQUIRED RESILIENT	VP VTR	VAPOR PROOF VENT THRU ROOF	OF OVERFLOW
CLP CLP	CLAY PIPE CLEAR	FTG	FOOTING	MGD MG/L	MILLION GALLONS PER DAY MILLIGRAMS PER LITRE	REV	REVISION	VWC	VINYL WALL COVERING	OSLDG OILY SLUDGE
CL2	CHLORINE	FUT FVNR	FUTURE FULL VOLTAGE NON-REVERSING	MH	MANHOLE	RF	RETURN FAN RIGHT HAND		UECT	————P—————————————————————————————————
GMP CMU	CORRUGATED METAL PIPE CONCRETE MASONRY UNITS	FVR	FULL VOLTAGE REVERSING	MIN MIR	MINIMUM MIRROR	RM	ROOM	W W	WEST WIDE	PE PE PRIMARY EFFLUENT PIPE PRIMARY INFLUENT
CO	CLEANOUT	G GA	GRAM GAUGE	MISC	MISCELLANEOUS	RND	ROUND ROUGH OPENING	W/	WITH	PLE PLANT EFFLUENT PO POLYMER SOLUTION
COD COD	CHEMICAL OXYGEN DEMAND COLUMN	GAL	GALLON	MJ MLSS	MECHANICAL JOINT MIXED LIQUOR SUSPENDED SOLIDS	RR	RAILROAD	WD WE	WOOD WALL EXHAUSTER	PSD — PRIMARY SLUDGE PSM — PRIMARY SCUM
ਨੂੰ COMM	COMMUNICATION	GALV GALVS	GALVANIZED GALVANIZED STEEL	MLVSS		RST	REINFORCING STEEL RELIEF VALVE	WG	WIRE GLASS	——————————————————————————————————————
CONN CONC	CONCRETE CONNECTION	GB	GRAB BAR	MM MO	MIKEDMETQBOR VOLATILE SUSPENDED SOLIDS MONTH	RVA S	SOUTH	WH WK	WATER HEATER WEEK	
© CONST	CONSTRUCTION	GC GEN	GENERAL CONTRACTOR GENERAL	M0	MASONRY OPENING	SAT	SUSPENDED ACOUSTICAL TILE	WP	WORK POINT	RFL REFRIGERANT LIQUID
CONT CONT JT	CONTINUOUS CONTROL JOINT	GLVA	GLOBE VALVE	MON MTG	MONUMENT MOUNTING	SB sc	SOIL BORING SHOWER CURTAIN	WR WR GWB	WASTE RECEPTACLE WATER RESISTANT GYPSUM WALLBOARD	RFS REFRIGERANT SUCTIONRHW RECIRCULATED HOT WATER
CON 31	CORNER	GPD GRTG	GALLONS PER DAY GRATING	MTL	METAL	S/C	SECONDARY CLARIFIERS	WS	WATER STOP OR WATERSURFACE	RS
SP CPLG	CONCRETE PIPE COUPLING	GVL	GRAVEL	MTRG	METERING	SCHED SCR	SCHEDULE SHOWER CURTAIN ROD	w5 WT	WELDED STEEL WEIGHT	RWW RAW WASTE WATER
<b>□</b> CT	CERAMIC TILE	GVA GWB	GATE VALVE GYPSUM WALLBOARD	N NATL	NORTH NATIONAL	SD	SOAP DISPENSER	WWF	WELDED WIRE FABRIC	——————————————————————————————————————
E CPVC	CHLORINATED POLYVINYL CHLORIDE	GWB GYP PLAS	GYPSUM WALLBUARD GYPSUM PLASTER	NC	NORMALLY CLOSED	SD/GB SEAL.	SOAP DISH & GRAB BAR SEALER	XFMR	TRANSFORMER	——————————————————————————————————————
WCI.		Ц	HEIGHT	NIC NO.	NOT IN CONTRACT NUMBER	SECT	SECTION			——————————————————————————————————————
CAD		H HSA	HEADED STUD ANCHOR	NO.	NORMALLY OPEN	SF	SUPPLY FAN SAFETY GLASS	YD YR	YARD YEAR	SCREENINGS SULFUR DIOXIDE GAS (PRESSURE)  NOTE:
ECHW		HB	HOSE BIBB HEATING COIL	NOM NORM	NOMINAL NORMAL	SHT	SHEET GLASS			
I № I		HCR	HAT & COAT RACK	NTS	NOT TO SCALE					SE SECONDARY EFFLUENT ON THIS SHEET AND NOT ON THE PLANS.
64.0		•		NV	NAPKIN VENDOR			ı		Louger
2305	Mea	6727 14	/est Washington Street, Suite 3	8500	VERIFY SCALE DSGN BAR IS ONE INCH ON DR	PDP			SECONDARY CLAF	DVO
≯	IVIL.A	UISI VI	rost masimigion succi, suite 3	,000	ORIGINAL DRAWING. DR	PDP			CITY OF PL	LYMOUTH OFNEDAL DWG G-I

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BAR IS ONE INCH ON ORIGINAL DRAWING.

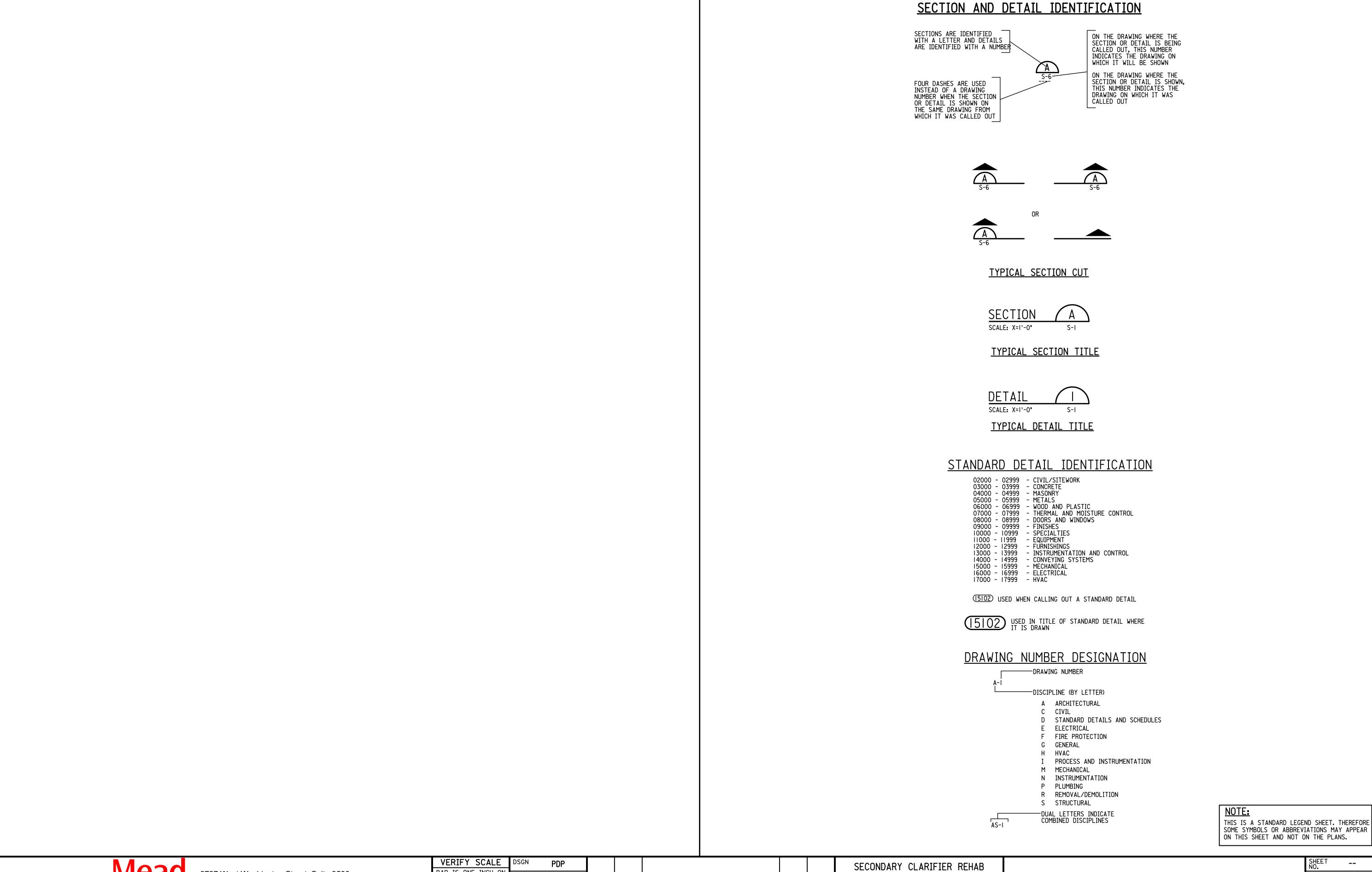
O I I"

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY. ZAH JRB BY APVD FOR BIDDING AND CONSTRUCTION REVISION -- 9-9-25 NO. DATE

CITY OF PLYMOUTH WASTEWATER TREATMENT PLANT PLYMOUTH, WISCONSIN

GENERAL ABBREVIATION LEGEND

SHEET NO.	
DWG NO.	G-I
DATE	SEP 2025
PROJ NO.	230564



BAR IS ONE INCH ON

ORIGINAL DRAWING.

IF NOT ONE INCH ON

THIS SHEET, ADJUST SCALES ACCORDINGLY.

PDP

ZAH

9-9-25

NO. DATE

FOR BIDDING AND CONSTRUCTION

REVISION

ZAH

BY APVD

CITY OF PLYMOUTH

WASTEWATER TREATMENT PLANT

PLYMOUTH, WISCONSIN

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Milwaukee, WI 53214-5648

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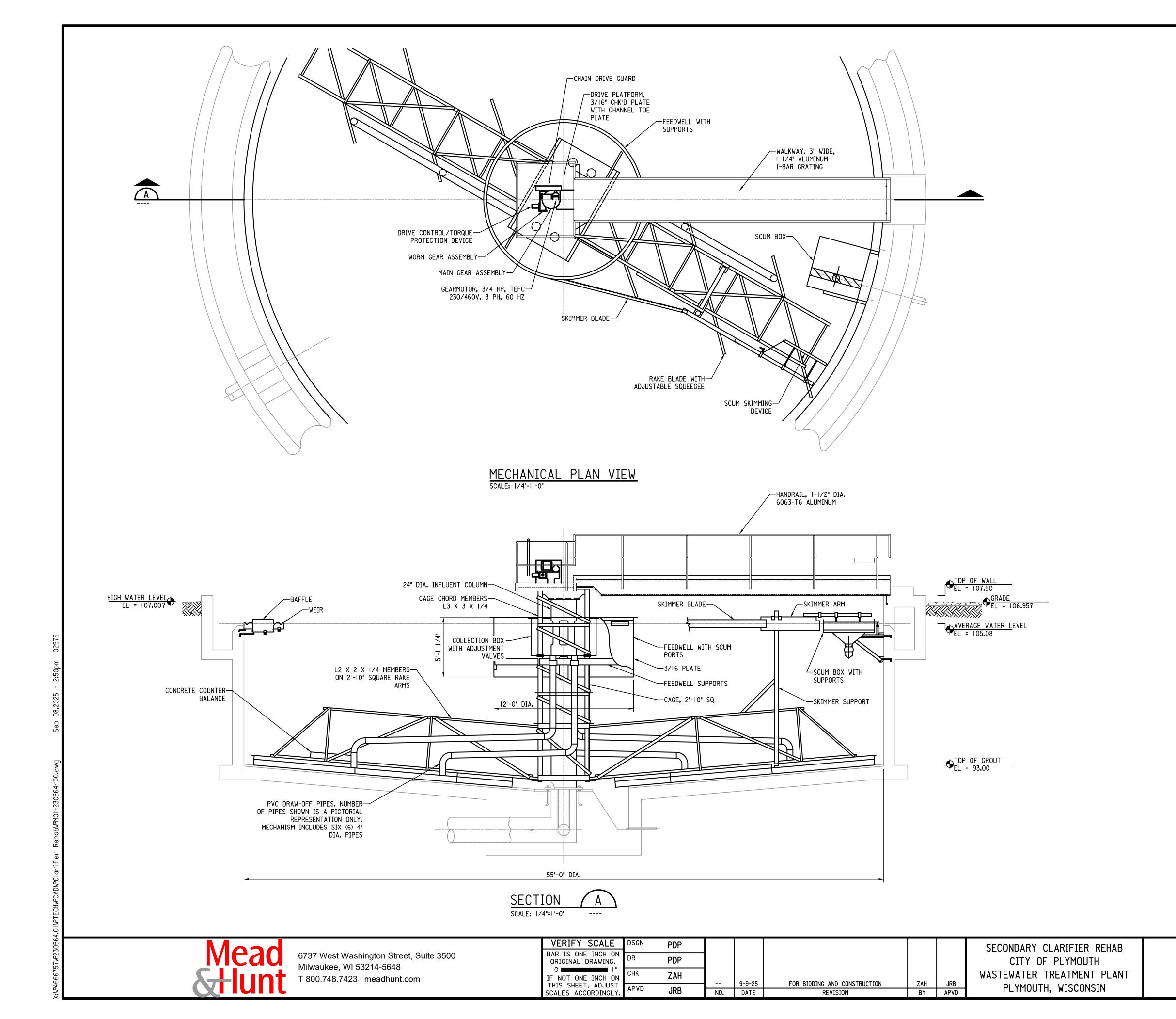
G-2 DATE **SEP 2025** SECTION AND DETAIL IDENTIFICATION 230564

GENERAL



REVISION

230564



PLAN NOTES:

- I. EXISTING INFORMATION SHOWN GRAY SCALE.
  DETAILED INFORMATION SHOWN HAS NOT BEEN
  CHECKED FOR ACCURACY. THE CONTRACTOR SHALL
  FIELD VERIFY ALL SIZES AND ELEVATIONS
  NECESSARY TO COMPLETE WORK SHOWN ON THE
  DRAWINGS AND AS SPECIFIED.
- 2. IT IS THE INTENT OF THESE DRAWINGS THAT A COMPLETE WORKING SYSTEM PROPERLY TESTED, WILL BE OPERATIONAL UPON COMPLETION OF THE WORK AS DEFINED IN SECTIONS 11600 AND 01820.
- 3. CONFLICT BETWEEN DRAWINGS AND SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO BID OPENING.
- 4. DRIVE UNIT, INCLUDING GEAR MOTOR, CHAIN DRIVE, WORM GEAR ASSEMBLY, DRIVE CONTROL/TORQUE PROTECTION DEVICE, AND MAIN GEAR ASSEMBLY TO BE INSPECTED AND REPAIRED AS NEEDED. SEE SPECIFICATION SECTION 11600 FOR REQUIREMENTS.
- 5. FEED WELL, COLLECTION BOX, CAGE, INFLUENT COLUMN, SCUM BOX, RAKE ARMS, AND STRUCTURAL SUPPORTS TO BE REMOVED, CLEANED, INSPECTED, AND COATED. SEE SPECIFICATION SECTION 11600 FOR REQUIREMENTS.
- 6. FEED WELL AND COLLECTION BOX TO BE REPLACED. SEE SPECIFICATION SECTION 11600 FOR REQUIREMENTS.

MECHANICAL
PLAN AND SECTION

NO.

DWG
NO.
DATE SEP 2025

PROJ 230564