

DRAWINGS

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ABBREVIATIONS

A	AMMETER, AMPERES, AWNINGS	CLSF	CONTROLLED LOW STRENGTH FILL	EQL	EQUAL	HGT	HEIGHT	MDO	MEDIUM DENSITY OVERLAY	PEP	POLYETHYLENE PIPE
AB	ANCHOR BOLT, ABOVE	CLG	CEILING	EQL SP	EQUALLY SPACED	HH	HANDHOLE	MECH	MECHANICAL	PEN.	PENETRATION
ABDN	ABANDON	CLR	CLEAR, CLEARANCE	EQPT	EQUIPMENT	HID	HIGH INTENSITY DISCHARGE	MFD	MANUFACTURED	PFC	POUNDS PER CUBIC FOOT
AC	ACOUSTICAL, ACOUSTICAL CEILING	CLSM	CONTROLLED LOW STRENGTH MATERIAL	ESC	EROSION AND SEDIMENT CONTROL	HK	HOOK	MFR	MANUFACTURER	PH	PENTHOUSE
AC	ALTERNATING CURRENT	CMP	CENTRAL MONITORING PANEL	ETM	ELAPSED TIME METER	HM	HOLLOW METAL	MGD	MILLION GALLONS PER DAY	pH	HYDROGEN ION CONCENTRATION
ACFL	ACCESS FLOORING	CMU	CORRUGATED METAL PIPE	EVC	END OF VERTICAL CURVE	HOA	HAND-OFF-AUTO	MH	MANHOLE, MOUNTING HEIGHT	PH	PHASE
ACI	AMERICAN CONCRETE INSTITUTE	CNTR	CONCRETE MASONRY UNIT	EW	EACH WAY	HOR	HAND-OFF-REMOTE	MIN	MINIMUM	PI	POINT OF INTERSECTION
ACMU	ACOUSTICAL CONCRETE MASONRY UNIT, ACOUSTICAL CMU	CO	CLEANOUT, CARBON MONOXIDE	EWC	ELECTRIC WATER COOLER	HORIZ	HORIZONTAL	MISC	MISCELLANEOUS	PIT	PILOT TUBE TEST STATION
ACP	ACOUSTICAL PANELS	COL	COLUMN, COLOR	EXH	EXHAUST	HP	HORSEPOWER	MJ	MECHANICAL JOINT	PJF	PREMOULDED JOINT FILLER
ACST	ACOUSTICAL	CONC	CONCRETE	EXP	EXPANSION, EXPOSED	HPT	HIGH POINT	MLO	MAIN LUGS ONLY	PL	PLATE (STEEL)
ACT	ACOUSTICAL TILE	COND	CONDENSATE	EXP AB	EXPANSION ANCHOR BOLT	HPU	HYDRAULIC POWER UNIT	MMDW	DRY WEATHER MAXIMUM MONTH	PL	PROPERTY LINE
AD	AREA DRAIN	CONDN	CONDITIONED	EXP JT	EXPANSION JOINT	HR	HOSE RACK, HANDRAIL	MMP	MECHANICAL MOUNTING PANEL	PLAM	PLASTIC LAMINATE
ADDL	ADDITIONAL	CONSTR	CONSTRUCTION	EXST, EXIST	EXISTING	HV	HOSE VALVE	MMWW	WET WEATHER MAXIMUM MONTH	PLAS	PLASTER, PLASTIC
ADJ	ADJACENT	CONT	CONTINUED, CONTINUOUS, CONTINUATION	EXT	EXTERIOR	HVAC	HEATING, VENTILATING AND AIR CONDITIONING	MO	MANUAL OPERABLE, MASONRY OPENING	PLC	PROGRAMMABLE LOGIC CONTROLLER
ADW	DRY WEATHER AVERAGE	CONTR	CONTRACTOR	QF	DEGREE FAHRENHEIT	HWL	HIGH WATER LEVEL	MP	METAL PANEL	PLYWD	PLYWOOD
AFD	ADJUSTABLE FREQUENCY DRIVE	COORD	COORDINATE	FB	FLAT BAR	IC	INTERRUPTING CAPACITY	MPU	MULTIPURPOSE UNIT	PNL	PANEL
AFF	ABOVE FINISHED FLOOR	COP	COPPER	F, FU	FUSE	ID	INDUCED DRAFT, INSIDE DIAMETER	MS	MANUFACTURER'S STANDARD	PP	POWER POLE
AFG	ABOVE FINISHED GRADE	CP	CENTER PIVOT	F, FX	FIXED	IE	INVERT ELEVATION	MSC	MANUFACTURER SUPPLIED CABLE	P-P	PUSH-PULL
AG	ACOUSTICAL, ACOUSTICAL GLASS	CP-X	CONTROL PANEL NO. X	FAP	FIRE ALARM PANEL	I.F.	INSIDE FACE	MSR	GROUPED MOTOR CONTROL	PPL	POLYPROPYLENE LINED
AGGR	AGGREGATE	CPLG	COUPLING	FC	FLEXIBLE CONDUIT	IG	INSULATING, INSULATING GLASS	MT	MOUNT	PR	PAIR
AHR	ANCHOR	CPRSR	COMPRESSOR	FCA	FLANGED COUPLING ADAPTER	IN	INCH	MTD	MOUNTED	PRC	POINT OF REVERSE CURVE
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	CPT	CONTROL POWER TRANSFORMER, CARPET	FCL2	FREE CHLORINE RESIDUAL	INCAND	INCANDESCENT	MTG	MOUNTING	PRCST	PRECAST
		CPVC	CHLORINATED PVC	FCO	FLOOR CLEANOUT	INFL	INFLUENT	MTS	MANUAL TRANSFER SWITCH	PREFAB	PREFABRICATION
		CR	CONTROL RELAY	FCTY	FACTORY	INJS	INJECTIONS	MU	MILL TYPE STEEL PIPE	PRES	PRESSURE
		CRS	COLD ROLLED STEEL	FDN	FLOOR DRAIN	INST	INSTANTANEOUS	MV	MERCURY VAPOR	PRI	PRIMARY
		CRS	CONSTRUCTION ROAD STABILIZATION	FDR	FEEDER	INSTM	INSTRUMENT, INSTRUMENTATION	MWS	MAXIMUM WATER SURFACE	PRM	PERMANENT REFERENCED MARKER
		CT	CERAMIC TILE	FEXT	FIRE EXTINGUISHER	INSUL	INSULATION	N	NORTH, NEUTRAL	PROJ	PROJECTION
		CT	CURRENT TRANSFORMER	FF	FINISHED FLOOR	INVT	INVERT	NA	NOT APPLICABLE	PROP	PROPERTY
		CTC	COMPUTER TERMINAL CABINET	FG	FINISH GRADE, FLOAT GLASS	IP	INLET PROTECTION, INSTRUMENTATION PANEL	NA	NON-AUTOMATIC	PS	PLASTIC SHEET, POLYCARBONATE SHEET
		CTR	CENTER	FH	FLAT HEAD	IRRIG	IRRIGATION	NC	NORMALLY CLOSED	PSF	POUNDS PER SQUARE FOOT
		CTRD	CENTERED	FHY	FIRE HYDRANT	ITG	INSULATED TEMPERED GLASS	NEUT	NEUTRAL	PSI	POUNDS PER SQUARE INCH
		CTSK	COUNTERSUNK	FIG	FIGURE	ITX	ISOLATION TRANSFORMER	NG	NATURAL GAS	PSIG	POUNDS PER SQUARE INCH, GAUGE
		CU	CUBIC	FL	FLOW LINE	IU	INTAKE UNIT	NGVD	NATIONAL GEODETIC VERTICAL DATUM	PT	POINT OF TANGENCY
		CU FT	CUBIC FOOT	FLG	FLANGE	IW	IRRIGATION WELL	NIC	NOT IN CONTRACT	PT	POTENTIAL TRANSFORMER
		CU IN	CUBIC INCH	FL	FLOOR	J	JALOUSIE	NO.	NORMALLY OPEN	PTD	PAPER TOWEL DISPENSER
		CUH	COPPER TUBING, HARD DRAWN	FLX	FLEXIBLE	JA	JAL-AWNING	NO., #	NUMBER	PTN	PARTITION
		CV	CHECK VALVE	FLH	FLAT HEAD	JB	JUNCTION BOX	NOM	NOMINAL	PV	PLUG VALVE
		CWR	CABINET DOOR MOUNTED WASTE RECEPTACLE	FLTR	FILTER	JAN	JANITOR	NP	NON-PROTECTED	PVC	POLYVINYL CHLORIDE
			CUBIC YARD	FLUOR	FLUORESCENT	JCT	JUNCTION	NPT	NATIONAL PIPE THREADS	PVI	POINT OF VERTICAL INTERSECTION
		CYS, CU YD	CLEAN WATER SERVICES	FNSH	FINISH	NS	NON-SHRINK	NTS	NOT TO SCALE	PVMT	PAVEMENT
		CWS		FOB	FLAT ON BOTTOM	JT	JOINT			PVT	POINT OF VERTICAL TANGENCY
				FOT	FLAT ON TOP	K	KEY GROUP, KEY INTERLOCK	O2	OXYGEN	QAA	AVERAGE FLOW
		D	DEEP, DRAIN	FP	FIELD PANEL	KIP	THOUSAND POUNDS	O TO O	OUT TO OUT	QAA	AVERAGE FLOW
		d	PENNY NAIL SIZE	FPM	FEET PER MINUTE	KIT	KITCHEN	OA	OVERALL, ODOROUS AIR	QMM	MAXIMUM 30 DAY FLOW
		DA	DUAL ACTION	FR	FORWARD REVERSE	K-PL	KICKPLATE	OC	ON CENTER	QPI	PEAK INSTANTANEOUS FLOW
		DAS	DATA ACQUISITION SYSTEM	FRP	FIBERGLASS REINFORCED PLASTIC	KSK	KITCHEN SINK	OC	OPEN-CLOSE (O)	QPP	PEAK PUMPING FLOW
		DBA	DEFORMED BAR ANCHOR	FSHS	FOLDING SHOWER SEAT	KV	KILOVOLTS	OCA	OPEN-CLOSE-AUTO	QT	QUARRY TILE
		DBL	DOUBLE	FT	FOOT OR FEET	KVA	KILOVOLT AMPERES	OCR	OPEN-CLOSE-REMOTE		
		DC	DIRECT CURRENT	FTG	FOOTING	KVAR	KILOVOLT AMPERES REACTIVE	OD	OUTSIDE DIAMETER, OVERFLOW DRAIN	R	RISER
		DEG	DEGREE	FU	FIXTURE UNIT	KW	KILOWATT	O.F.	OUTSIDE FACE	R OR RAD	RADIUS
		DET	DETAIL	FVNR	FULL VOLTAGE NON-REVERSING	L	ANGLE, LENGTH	OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED	RA	RETURN AIR
		DF	DOUGLAS FIR, DRINKING FOUNTAIN	FVR	FULL VOLTAGE REVERSING	LA	LIGHTNING ARRESTER	OFOI	OWNER FURNISHED, OWNER INSTALLED	RC	REINFORCED CONCRETE
		DDI	DROP INLET	FWD	FORWARD	LAB	LABORATORY	OL	OVERLOAD RELAY	RCP	REINFORCED CONCRETE PIPE
		DH	DOUBLE HUNG			LAM	LAMINATE	OO	ON-OFF	RCPT	RECEPTACLE
		DI	DUCTILE IRON			LAT	LATITUDE	OOA	ON-OFF-AUTO	RD	ROAD, ROOF DRAIN
		DIA	DIAMETER	G, GND	GROUND	LB	POUND	OOR	ON-OFF-REMOTE	RDCR	REDUCER
		DIAG	DIAGONAL	GA	GAUGE	LC	LIGHTING CONTACTOR	OP	OPAQUE PANEL, OUTLET PROTECTION	RDW	REDWOOD
		DIP	DUCTILE IRON PIPE	GAL	GALLON	LD	COMBINATION LOUVER/DAMPER	OPER	OPERATOR	RECIR	RECIRCULATION
		DIR	DIRECTION	GALV	GALVANIZED	LDG	LOADING DOCK	OPNG	OPENING	REF	REFER OR REFERENCE
		DISCH	DISCHARGE	GB	GYPSPUM BOARD	LEL	LOWER EXPLOSIVE LIMIT	OPP	OPPOSITE		
		DN	DOWN	GC	GROOVED COUPLING	LF	LINEAR FEET	OSA	OUTSIDE AIR	REFR	REFRIGERATE, REFRIGERANT
		DO	DISSOLVED OXYGEN	GCMU	GLAZED CONCRETE MASONRY UNITS	LG	LONG	OSC	OPEN-STOP-CLOSE	REINF	REINFORCED, REINFORCING, REINFORCE
		DOL	DIRECT-ON-LINE			LH	LEFT HAND	OSD	OPEN SITE DRAIN	REQD	REQUIRED
		DP, DPNL	DISTRIBUTION PANEL	GFA	GROOVED FLANGE ADAPTER	LHR	LEFT HAND REVERSE	OWSJ	OPEN WEB STEEL JOIST	RESIL	RESILIENT
		DR	DOOR	GFI	GROUND FAULT INTERRUPTER	LLH	LONG LEG HORIZONTAL	OZ	OUNCE	RFS	ROLL-UP FIRE SHUTTER
		DS	DOWNSPOUT	GFR	GROUND FAULT RELAY	LLV	LONG LEG VERTICAL	P	PROJECTED	RH	RIGHT HAND
		DWG	DRAWING	GH	GREENHOUSE	LNTL	LINTEL	PAVT	PILASTER, PIPE	RH	ROD HOLE
		DWL	DOWEL	GL	GLASS	LONG	LONGITUDINAL	PB	PAVER TILE	RHR	RIGHT HAND REVERSE
		△	DELTA	GPD	GALLONS PER DAY	LOS	LOCK-OUT STOP PUSHBUTTON	PC	PUSHBUTTON SWITCH	RL	RAIN LEADER
				GPH	GALLONS PER HOUR	LP	LIGHT POLE, LIGHTING PANEL, LOCAL PANEL	PCCP	PRECAST CONCRETE PANEL	RLS	RUBBER LINED STEEL
				GPM	GALLONS PER MINUTE	LPT	LOW POINT	PCV	PRECAST CONCRETE CYLINDER PIPE	RM	ROOM
		E	EAST, EMPTY	GPS	GLOBAL POSITION SYSTEM	LR	LATCHING RELAY	PE	PRESSURE CONTROL VALVE	RO	ROUGH OPENING
		EA	EACH, EXHAUST AIR	GRTG	GRATING	LR	LOCAL-REMOTE	PED	PEDESTAL, PEDESTRIAN	ROL	RAISE-OFF-LOWER
		EB, EBCT	EMPTY BED CONTACT TIME	GSB	GYPSPUM SOFFIT BOARD	LS	LONG RADIUS			RPM	REVOLUTIONS PER MINUTE
		ECC	ECCENTRIC	GSP	GALVANIZED STEEL PIPE	LT	LEFT			RR	RIPRAP
		EE	EMERGENCY EYEWASH	GV	GATE VALVE	LTX	LIGHTS OR LIGHTING				
		EDF	EGG-SHAPED DIGESTER FACILITY	GVL	GRAVEL	LWL	LIGHTING TRANSFORMER				
		EDF	EGG-SHAPED DIGESTER FACILITY	GWB	GYPSPUM WALLBOARD	MA	MANUAL-AUTO				
		EFL	EFFLUENT	GYP	GYPSPUM	MAS	MASONRY				
		EIFS	EXTERIOR INSULATION AND FINISH SYSTEM	H	HIGH, HORN OR HOWLER	MATL	MATERIAL				
		EL	ELEVATION	H2S	HYDROGEN SULFIDE	MAX	MAXIMUM				
		ELB	ELBOW	H.A.S.	HEADED ANCHOR STUD	MB	MACHINE BOLT				
		ELC	ELECTRICAL LOAD CENTER	HC	HOLLOW CORE WOOD	MC	MASONRY CLEARANCE				
		ELEC	ELECTRIC, ELECTRICAL	HCL	HYDROCHLORIC ACID	MC	MODULATE-CLOSE				
		ENGR	ENGINEER	HDNR	HARDENER	MCC	MOTOR CONTROL CENTER				
		EOP	EDGE OF PAVEMENT	HDR	HEADER	MCJ	MASONRY CONTROL JOINT				
		ESC	EROSION AND SEDIMENT CONTROL	HDW	HARDWARE						
		EP	EXPLOSION PROOF, EDGE OF PAVING	HGL	HYDRAULIC GRADE LINE						
				HK	HOOK						

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ABBREVIATIONS

A	AMMETER, AMPERES, AWNINGS	CLSF	CONTROLLED LOW STRENGTH FILL	EQL	EQUAL	HGT	HEIGHT	MDO	MEDIUM DENSITY OVERLAY	PEP	POLYETHYLENE PIPE
AB	ANCHOR BOLT, ABOVE	CLG	CEILING	EQL SP	EQUALLY SPACED	HH	HANDHOLE	MECH	MECHANICAL	PEN.	PENETRATION
ABDN	ABANDON	CLR	CLEAR, CLEARANCE	EQPT	EQUIPMENT	HID	HIGH INTENSITY DISCHARGE	MFD	MANUFACTURED	PFC	POUNDS PER CUBIC FOOT
AC	ACOUSTICAL, ACOUSTICAL CEILING	CLSM	CONTROLLED LOW STRENGTH MATERIAL	ESC	EROSION AND SEDIMENT CONTROL	HK	HOOK	MFR	MANUFACTURER	PH	PENTHOUSE
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ACFL	ACCESS FLOORING	CMU	CORRUGATED METAL PIPE	EVC	END OF VERTICAL CURVE	HOA	HAND-OFF-AUTO	MH	MANHOLE, MOUNTING HEIGHT	PH	PHASE
ACI	AMERICAN CONCRETE INSTITUTE	CNTR	CONCRETE MASONRY UNIT	EW	EACH WAY	HOR	HAND-OFF-REMOTE	MIN	MINIMUM	PI	POINT OF INTERSECTION
ACMU	ACOUSTICAL CONCRETE MASONRY UNIT, ACOUSTICAL CMU	CO	CLEANOUT, CARBON MONOXIDE	EWC	ELECTRIC WATER COOLER	HORIZ	HORIZONTAL	MISC	MISCELLANEOUS	PIT	PILOT TUBE TEST STATION
ACP	ACOUSTICAL PANELS	COL	COLUMN, COLOR	EXH	EXHAUST	HP	HORSEPOWER	MJ	MECHANICAL JOINT	PJF	PREMOULDED JOINT FILLER
ACST	ACOUSTICAL	CONC	CONCRETE	EXP	EXPANSION, EXPOSED	HPT	HIGH POINT	MLO	MAIN LUGS ONLY	PL	PLATE (STEEL)
ACT	ACOUSTICAL TILE	COND	CONDENSATE	EXP AB	EXPANSION ANCHOR BOLT	HPU	HYDRAULIC POWER UNIT	MMDW	DRY WEATHER MAXIMUM MONTH	PL	PROPERTY LINE
AD	AREA DRAIN	CONDN	CONDITIONED	EXP JT	EXPANSION JOINT	HR	HOSE RACK, HANDRAIL	MMP	MECHANICAL MOUNTING PANEL	PLAM	PLASTIC LAMINATE
ADDL	ADDITIONAL	CONSTR	CONSTRUCTION	EXST, EXIST	EXISTING	HV	HOSE VALVE	MMWW	WET WEATHER MAXIMUM MONTH	PLAS	PLASTER, PLASTIC
ADJ	ADJACENT	CONT	CONTINUED, CONTINUOUS, CONTINUATION	EXT	EXTERIOR	HVAC	HEATING, VENTILATING AND AIR CONDITIONING	MO	MANUAL OPERABLE, MASONRY OPENING	PLC	PROGRAMMABLE LOGIC CONTROLLER
ADW	DRY WEATHER AVERAGE	CONTR	CONTRACTOR	QF	DEGREE FAHRENHEIT	HWL	HIGH WATER LEVEL	MP	METAL PANEL	PLYWD	PLYWOOD
AFD	ADJUSTABLE FREQUENCY DRIVE	COORD	COORDINATE	FB	FLAT BAR	IC	INTERRUPTING CAPACITY	MPU	MULTIPURPOSE UNIT	PNL	PANEL
AFF	ABOVE FINISHED FLOOR	COP	COPPER	F, FU	FUSE	ID	INDUCED DRAFT, INSIDE DIAMETER	MS	MANUFACTURER'S STANDARD	PP	POWER POLE
AFG	ABOVE FINISHED GRADE	CP	CENTER PIVOT	F, FX	FIXED	IE	INVERT ELEVATION	MSC	MANUFACTURER SUPPLIED CABLE	P-P	PUSH-PULL
AG	ACOUSTICAL, ACOUSTICAL GLASS	CP-X	CONTROL PANEL NO. X	FAP	FIRE ALARM PANEL	I.F.	INSIDE FACE	MSR	GROUPED MOTOR CONTROL	PPL	POLYPROPYLENE LINED
AGGR	AGGREGATE	CPLG	COUPLING	FC	FLEXIBLE CONDUIT	IG	INSULATING, INSULATING GLASS	MT	MOUNT	PR	PAIR
AHR	ANCHOR	CPRSR	COMPRESSOR	FCA	FLANGED COUPLING ADAPTER	IN	INCH	MTD	MOUNTED	PRC	POINT OF REVERSE CURVE
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	CPT	CONTROL POWER TRANSFORMER, CARPET	FCL2	FREE CHLORINE RESIDUAL	INCAND	INCANDESCENT	MTG	MOUNTING	PRCST	PRECAST
		CPVC	CHLORINATED PVC	FCO	FLOOR CLEANOUT	INFL	INFLUENT	MTS	MANUAL TRANSFER SWITCH	PREFAB	PREFABRICATION
		CR	CONTROL RELAY	FCTY	FACTORY	INJS	INJECTIONS	MU	MILL TYPE STEEL PIPE	PRES	PRESSURE
		CRS	COLD ROLLED STEEL	FDN	FLOOR DRAIN	INST	INSTANTANEOUS	MV	MERCURY VAPOR	PRI	PRIMARY
		CRS	CONSTRUCTION ROAD STABILIZATION	FDR	FEEDER	INSTM	INSTRUMENT, INSTRUMENTATION	MWS	MAXIMUM WATER SURFACE	PRM	PERMANENT REFERENCED MARKER
		CT	CERAMIC TILE	FEXT	FIRE EXTINGUISHER	INSUL	INSULATION	N	NORTH, NEUTRAL	PROJ	PROJECTION
		CT	CURRENT TRANSFORMER	FF	FINISHED FLOOR	INVT	INVERT	NA	NOT APPLICABLE	PROP	PROPERTY
		CTC	COMPUTER TERMINAL CABINET	FG	FINISH GRADE, FLOAT GLASS	IP	INLET PROTECTION, INSTRUMENTATION PANEL	NA	NON-AUTOMATIC	PS	PLASTIC SHEET, POLYCARBONATE SHEET
		CTR	CENTER	FH	FLAT HEAD	IRRIG	IRRIGATION	NC	NORMALLY CLOSED	PSF	POUNDS PER SQUARE FOOT
		CTRD	CENTERED	FHY	FIRE HYDRANT	ITG	INSULATED TEMPERED GLASS	NEUT	NEUTRAL	PSI	POUNDS PER SQUARE INCH
		CTSK	COUNTERSUNK	FIG	FIGURE	ITX	ISOLATION TRANSFORMER	NG	NATURAL GAS	PSIG	POUNDS PER SQUARE INCH, GAUGE
		CU	CUBIC	FL	FLOW LINE	IU	INTAKE UNIT	NGVD	NATIONAL GEODETIC VERTICAL DATUM	PT	POINT OF TANGENCY
		CU FT	CUBIC FOOT	FLG	FLANGE	IW	IRRIGATION WELL	NIC	NOT IN CONTRACT	PT	POTENTIAL TRANSFORMER
		CU IN	CUBIC INCH	FL	FLOOR	J	JALOUSIE	NO.	NORMALLY OPEN	PTD	PAPER TOWEL DISPENSER
		CUH	COPPER TUBING, HARD DRAWN	FLX	FLEXIBLE	JA	JAL-AWNING	NO., #	NUMBER	PTN	PARTITION
		CV	CHECK VALVE	FLH	FLAT HEAD	JB	JUNCTION BOX	NOM	NOMINAL	PV	PLUG VALVE
		CWR	CABINET DOOR MOUNTED WASTE RECEPTACLE	FLTR	FILTER	JAN	JANITOR	NP	NON-PROTECTED	PVC	POLYVINYL CHLORIDE
			CUBIC YARD	FLUOR	FLUORESCENT	JCT	JUNCTION	NPT	NATIONAL PIPE THREADS	PVI	POINT OF VERTICAL INTERSECTION
		CYS, CU YD	CLEAN WATER SERVICES	FNSH	FINISH	NS	NON-SHRINK	NTS	NOT TO SCALE	PVMT	PAVEMENT
		CWS		FOB	FLAT ON BOTTOM	JT	JOINT			PVT	POINT OF VERTICAL TANGENCY
				FOT	FLAT ON TOP	K	KEY GROUP, KEY INTERLOCK	O2	OXYGEN	QAA	AVERAGE FLOW
		D	DEEP, DRAIN	FP	FIELD PANEL	KIP	THOUSAND POUNDS	O TO O	OUT TO OUT	QMM	MAXIMUM 30 DAY FLOW
		d	PENNY NAIL SIZE	FPM	FEET PER MINUTE	KIT	KITCHEN	OA	OVERALL, ODOROUS AIR	QPI	PEAK INSTANTANEOUS FLOW
		DA	DUAL ACTION	FR	FORWARD REVERSE	K-PL	KICKPLATE	OC	ON CENTER	QPP	PEAK PUMPING FLOW

ABBREVIATIONS

R RUB	RADIAL RUBBER
RS	RIGID STEEL
RST	REINFORCING STEEL
RT	RIGHT
RTN	RETURN
RTO	REGENERATIVE THERMAL OXIDIZER
RUB	RUBBER
RUBC	RUBBER CUSHIONED FLOORING
RUBS	RUBBER ESD CONTROL FLOORING
R/W	RIGHT OF WAY

S	I-BEAM
SA	SLOPE, SOUTH, SWITCH
SA	SUPPLY AIR
SATC	SUSPENDED ACCUSTICAL TILE CEILING
SB	SEDIMENT BASIN
SC	SHOWER CURTAIN, SOLID CORE WOOD
SCADA	SUPERVISORY CONTROL AND DATA ACQUISITION
SCC	SOLID CORE
SCFM	STANDARD CUBIC FEED PER MINUTE
SCHED	SCHEDULE
SCU	SPEED CONTROL UNIT
SDP	SUB-DISTRIBUTION PANEL
SDWK	SIDEWALK
SEC	SECONDARY
SECT	SECTION
SED	SEDIMENTATION
SEW	SEWAGE
SG	LAMINATED SAFETY GLASS, SAFETY
SGWB	SUSPENDED GYPSUM WALL BOARD
SH	SHEET
SHA	SURFACE HARDENING AGENT
SHS	SOLIDS HANDLING SYSTEM
SIM	SIMILAR
SK	SINK
SLR	SEALER
SMLS	SEAMLESS EPOXY
SOI	SPRAY- ON INSULATION
SOLN	SOLUTION
SP	SPACE OR SPACES,

SPEC, SPECS	SPECIFICATIONS
SPD	SUMP PUMP DISCHARGE
SPG	SPACING
SPLY	SUPPLY
SQ	SQUARE
SQ FT	SQUARE FOOT, FEET
SQ IN	SQUARE INCH
SR	SHORT RADIUS
SS	START-STOP
SST	STAINLESS STEEL
SSC	SUPERVISORY SET POINT CONTROL
ST	STORM DRAIN
ST	STRAIGHT
STA	STATUS, STATION
STD	STANDARD
STIF	STIFFENER
STIRR	STIRRUP
STL	STEEL
STRL	STRUCTUAL
STRUCT	STRUCTURE
SUBFL	SUBFLOOR
SUSP	SUSPENDED
SV	SOLENOID VALVE
SVIN	SHEET VINYL
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
SYMM	SYMMETRICAL

T	THERMOSTAT, TREAD
T&B	TOP AND BOTTOM
T&G	TONGUE AND GROOVE
TA	TRANSFER AIR
TAN	TANGENT
TB	TERMINAL BOARD
TBG	TUBING
TC	TIME TO CLOSE
TC	TURBIDITY CURTAIN
TCAD	TIME CLOSE AFTER DE-ENERGIZATION
TCAE	TIME CLOSE AFTER ENERGIZATION
TDH	TOTAL DYNAMIC HEAD
TDR	TIME DELAY RELAY
TECH	TECHNICAL
TEL	TELEPHONE
TEMP	TEMPORARY, TEMPERATURE
TF	TOP FACE
TFG	TEMPERED FLOAT GLASS

TG	TEMPERED
TH	TOP-HINGED
THD	THREAD
THK	THICKNESS
THRU	THROUGH
TJB	TERMINAL JUNCTION BOX
TL	TEFLON LINED PIPE
T.O.	TIME TO OPEN, TOP OF
TOAE	TIME OPEN AFTER ENERGIZATION
TOC	TOP OF CONCRETE
TOC	TOP OF CURB
TOD	TIME ON DELAY, TOP OF DUCT

TOF	TOP OF FOOTING
TOG	TOP OF GROUT, TOP OF GRATE
T.O.P.	TOP OF PARAPET
TOS	TOP OF SLAB
TOW	TOP OF WALL
TP	TURNING POINT
TR	TRANSOM, TRUSS
TRANS	TRANSFORMER, TRANSITION
TRANSV	TRANSVERSE
TRD	TREAD
TS	TEMPORARY SEEDING, TUBE STEEL
TSHT	THRESHOLD
TSS	TOTAL SUSPENSION SOLIDS
TST	TOP OF STEEL
TTC	TELEPHONE TERMINAL CABINET
TTD	TOILET TISSUE DISPENSER
TU-X	TREATMENT UNIT NO. X
TURB	TURBIDITY
TWP	TRANSLUCENT WALL PANEL
TX	TRANSFORMER
TYP	TYPICAL

UON	UNLESS OTHERWISE NOTED
UNO	UNLESS NOTED OTHERWISE
UPS	UNINTERRUPTIBLE POWER SUPPLY
USB	UNIT SUBSTATION
UVR	UNDER VOLTAGE RELAY

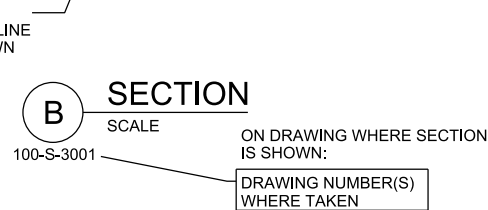
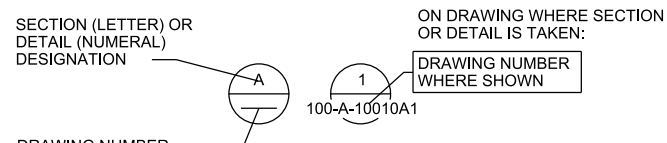
V	VENT, VALVE
V	VOLTMETER, VOLTS
VB	VAPOR BARRIER (RETARDER)
VC	VERTICAL CURVE
VCP	VITRIFIED CLAY PIPE
VCT	VINYL COMPOSITION TILE
VEL	VELOCITY
VERT	VERTICAL
VHC	VOLATILE HYDROCARBONS
VIB	VIBRATION
VIF	VERIFY IN FIELD
VIN	VINYL
VINT, VT	VINYL TILE
VP	VERTICAL PIVOTED
VPS	VENEER PLASTER SYSTEM
VPC	POINT OF VERTICAL CURVATURE
VPI	POINT OF VERTICAL INTERSECTION
VPT	POINT OF VERTICAL TANGENT
VS	VERTICAL SLIDE
VTR	VENT THRU ROOF
VWC	VINYL WALL COVERING

W	WEST
W/	WITH
WC	WATER COLUMN
WEASTRIP	WEATHERSTRIP
WG	WIRE, WIRE GLASS
WH	WATTHOUR METER
WHD	WATTHOUR DEMAND METER
WP	WATERPROOF, WEATHERPROOF, WORKPOINT
WR	WASTE RECEPTACLE
WRB	WATER RESISTANT GWB
WS	WATER SURFACE, WATERSTOP, WELDED STEEL
WWF	WELDED WIRE FABRIC
WWPH	WET WEATHER PEAK HOUR

NOTES:

1. CONTACT ENGINEER FOR ABBREVIATIONS USED BUT NOT SHOWN ON THIS DRAWING.

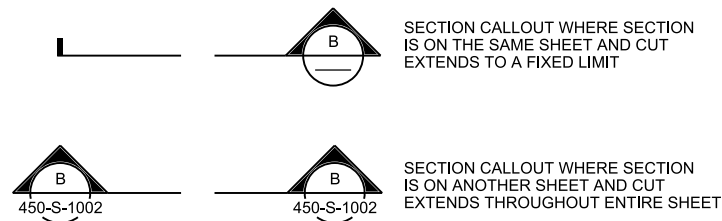
SECTION / DETAIL DESIGNATIONS



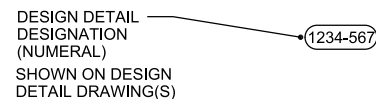
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ON DRAWING WHERE ONLY A
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DESIGN DETAIL DESIGNATION



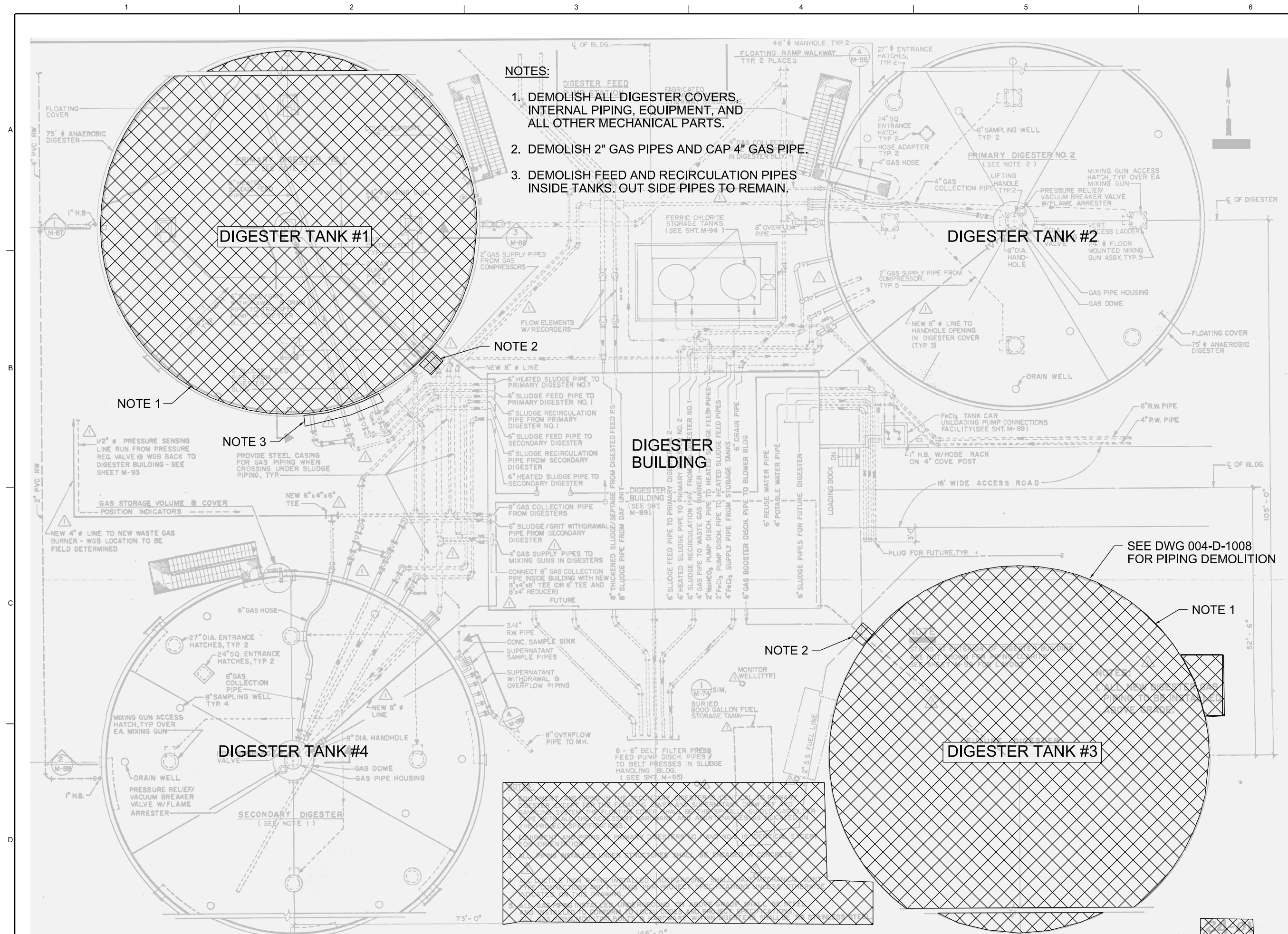
NOTES:

1. ALL DESIGN DETAILS ARE TYPICAL AND MUST BE USED IF DESIGN DETAIL DESIGNATION IS NOT SHOWN
2. THE TERM STANDARD DETAIL, OR A FORM OF IT, IS SYNONOMOUS WITH DESIGN DETAIL. THE DESIGN DETAILS REPRESENT THE CHARACTER AND NATURE OF THE WORK REQUIRED THROUGHOUT THE PROJECT. ALL ASSOCIATED WORK SHALL BE IN ACCORDANCE WITH THE DESIGN DETAILS SHOWN WHETHER THE DETAILS ARE SPECIFICALLY REFERENCED OR NOT.

GENERAL NOTE:

1. THIS IS A STANDARD LEGEND SHEET.
THEREFORE, NOT ALL OF THE INFORMATION
SHOWN MAY BE USED ON THIS PROJECT.

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<p>VERIFY SCALE</p> <p>BAR IS ONE INCH ON ORIGINAL DRAWING.</p> <p>0 1"</p>					
DATE	MARCH 2013				
PROJ	457133				
DWG	001-G-0102				
SHEET	of				



CH2MHILL®

DEMOLITION

ANAEROBIC DIGESTER FACILITIES

OVERALL PLAN

SWWRF NITROGEN REMOVAL AND DIGESTER MODIFICATIONS

MANATEE COUNTY UTILITIES

MANATEE COUNTY, FL

DATE

MARCH 2013

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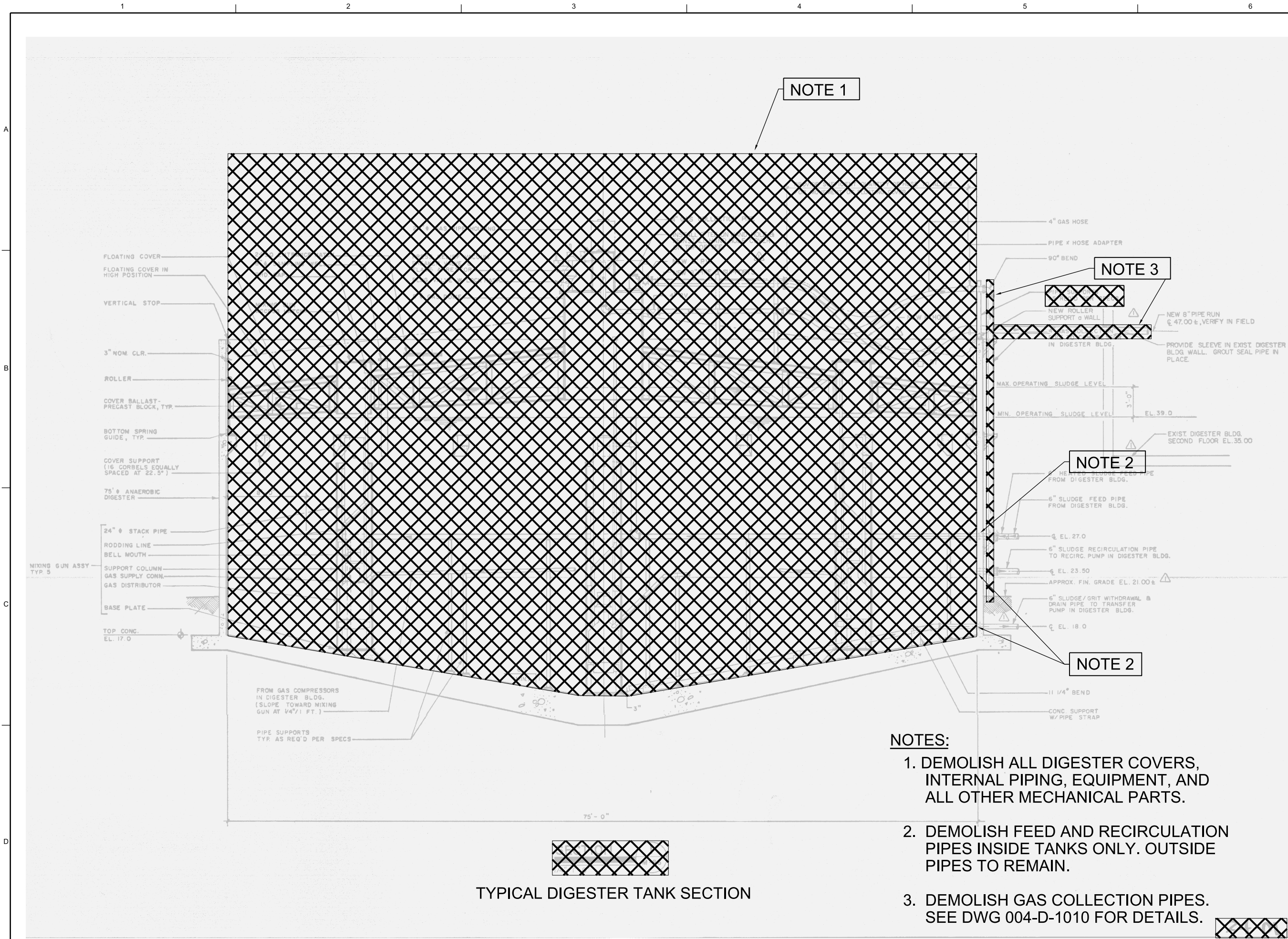
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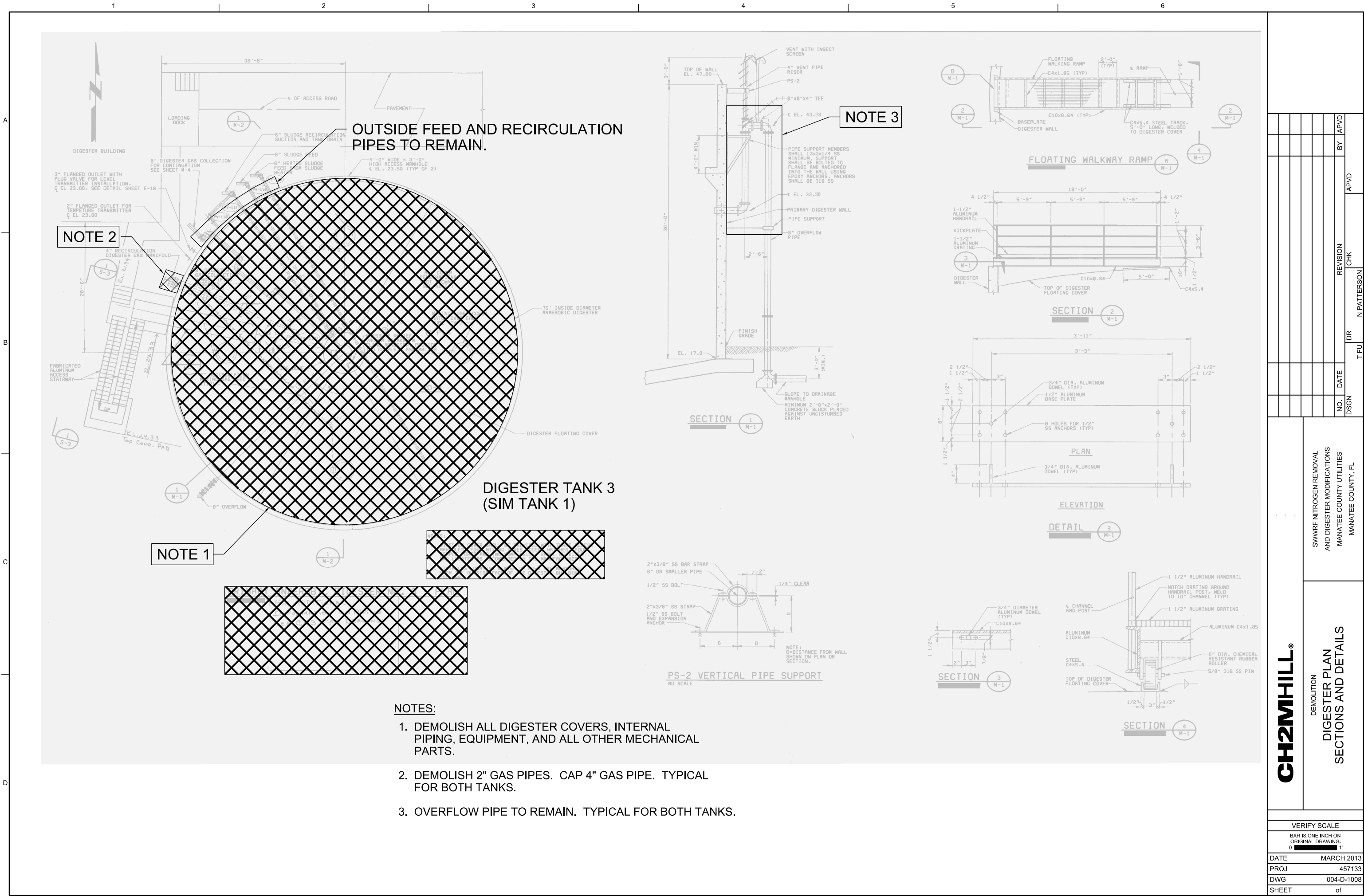
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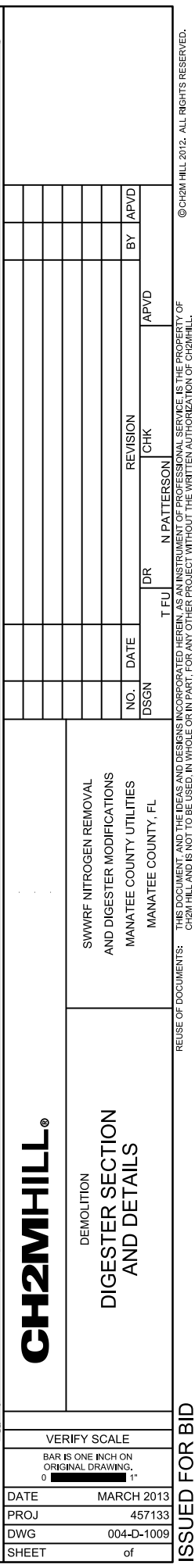
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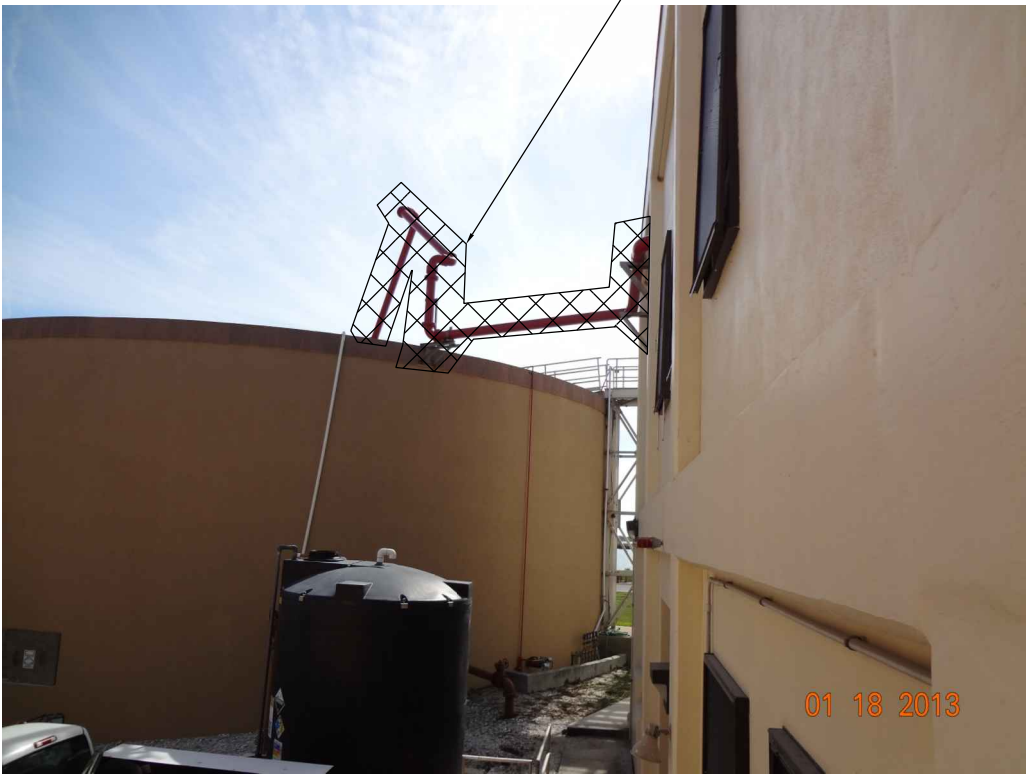
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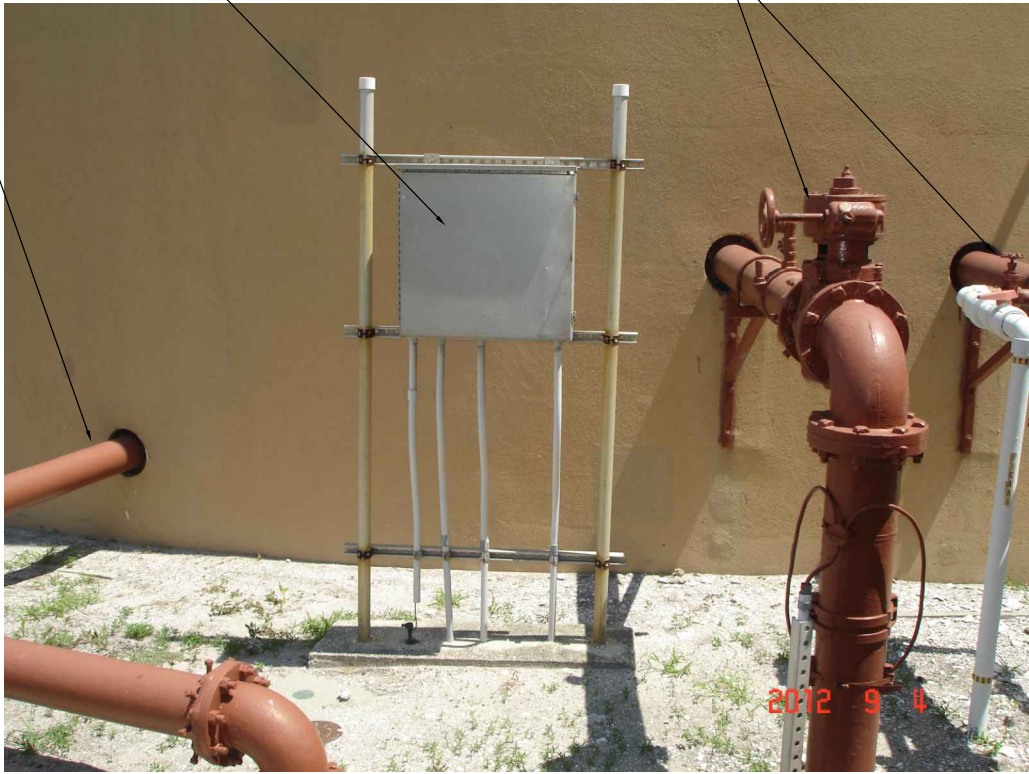
1 DEMOLITION PHOTO 1
NTS



2 DEMOLITION PHOTO 2
NTS



3 DEMOLITION PHOTO 3
NTS



4 DEMOLITION PHOTO 4
NTS

NOTES:

1. DEMOLISH 8" GAS COLLECTION PIPES BETWEEN TANKS AND DIGESTER BUILDING. CAP THE PIPES 8-INCHES FROM THE BUILDING. (TYP OF 2 TANKS)
2. RECIRCULATION AND FEED PIPES TO REMAIN. (TYP OF 2 TANKS)
3. ELECTRICAL PANEL TO BE ABANDONED IN PLACE. TAG OUT/LOCK OUT.

CH2MHILL®

DEMOLITION

DIGESTER DEMOLITION PHOTOS

SWWRF NITROGEN REMOVAL AND DIGESTER MODIFICATIONS

MANATEE COUNTY UTILITIES

MANATEE COUNTY, FL

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VERIFY SCALE

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0 1"

DATE MARCH 2013

PROJ 457133

DWG 004-D-1010

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5 DEMOLITION PHOTO 5
NTS

NOTES:

- 1. OVERFLOW PIPE TO REMAIN. (TYP OF 4 TANKS)
- 2. OUTSIDE PIPES TO REMAIN.

CH2MHILL®

DEMOLITION
DIGESTER DEMOLITION PHOTOS

SWWRF NITROGEN REMOVAL
AND DIGESTER MODIFICATIONS
MANATEE COUNTY UTILITIES
MANATEE COUNTY, FL

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