ABBREVIATIONS

AB	ANCHOR BOLT	HB	HOSE BIBB	PO	PUSH ON
ABAND	ABANDONED	HCS	HOLLOW CORE SLAB	POL	POLISH
ABS	ABSOLUTE	HD	HEAD, HEAVY DUTY	POS	POSITION
ACOUST	ACOUSTICAL	HDN	HARDEN	PREFAB	PREFABRICATED
ADD	ADDENDUM	HDW	HARDWARE	PRESS	PRESSURE
ADDL	ADDITIONAL	HDWL	HEADWALL	PRI	PRIMARY
ADM	ADMINISTRATION	HGR	HANGER	PS	PUMP STATION
AFF	ABOVE FINISH FLOOR	HM	HOLLOW METAL	PSF	POUNDS PER SQUARE FOOT
AGG	AGGREGATE	HOL	HOLLOW	PSI	POUNDS PER SQUARE INCH
AHR	ANCHOR	HORIZ	HORIZONTAL	PSIG	POUNDS PER SQUARE INCH GAUGE
AL	ALUMINUM	HP	HORSEPOWER	PT	POINT
ALT	ALTERNATE	HPT	HIGH POINT	PTD	PAINTED
APPROX	APPROXIMATE	HR	HOUR	PVC	POLYVINYL CHLORIDE
ARCH	ARCHITECTURAL	HT	HEIGHT	PWR	POWER
ASB	ASBESTOS	HTR	HEATER		
AUX	AUXILIARY	HVY	HEAVY	QT	QUART
AVG	AVERAGE	HW	HOT WATER	QTY	QUANTITY
AWG	AMERICAN WIRE GAGE	HWL	HIGH WATER LEVEL		
		HWY	HIGHWAY	RAN	RANGE
BC	BOLT CIRCLE	HYD	HYDRAULIC	RAD	RADIUS
BD	BOARD			RAS	RETURN ACTIVATED SLUDGE
BETW	BETWEEN	IAS	INTERCHANGE ACTIVATED SLUDGE	RASFM	RETURN ACTIVATED SLUDGE FORCE MAIN
B'FLY	BUTTERFLY	IASFM	INTERCHANGE ACTIVATED SLUDGE FORCE MAIN	RASFMA	RETURN ACTIVATED SLUDGE FORCE MAIN ALTERNATE
BHP	BRAKE HORSEPOWER	ID	INSIDE DIAMETER	RCPT	RECEPTACLE
BIT	BITUMINOUS	IFM	INFLUENT FORCE MAIN	RD	ROOF DRAIN
BL	BASE LINE, BUILDING LINE	IFMA	INFLUENT FORCE MAIN ALTERNATE	RDCR	REDUCER
BLDG	BUILDING	ILLUM	ILLUMINATE	RECD	RECEIVED
BLK	BLOCK	ILLUS	ILLUSTRATE	REF	REFERENCE
BM	BENCH MARK, BEAM	IN	INCH	REFG	REFRIGERATOR
BOT	BOTTOM	INCR	INCREASER	REINF	REINFORCE
BP	BASE PLATE	INFL	INFLUENT	REM	REMAINDER
BRG	BEARING	INSUL	INSULATION	REPL	REPLACE
BSMT	BASEMENT	INT	INTERIOR	REQD	REQUIRED
BTU	BRITISH THERMAL UNIT	INV	INVERT	RESIL	RESILIENT
BU	BUILT UP	ITI	INTERCHANGE TANK INFLUENT	REV	REVISION
BW	BOTH WAYS			RJ	RESTRAINED JOINT
BYP	BYPASS	JT	JOINT	RM	ROOM
		JCT	JUNCTION	RND	ROUND
C	CENTIGRADE			RPM	REVOLUTIONS PER MINUTE
CAP	CAPACITY	KG	KILOGRAM		
CB	CATCH BASIN	KM	KILOMETER	S	SOUTH
CE	CLARIFIER EFFLUENT	KV	KILOVOLT	SC	SCUM
CER	CERAMIC	KVA	KILOVOLT - AMPERE	SCFM	SCUM FORCE MAIN
CFM	CUBIC FEET PER MINUTE	KVAH	KILOVOLT - AMPERE HOUR	SCH	SCHEDULE
CFS	CUBIC FEET PER	KW	KILOWATT	SEC	SECOND
CHK	CHECK	KWH	KILOWATT HOUR	SECT	SECTION
CHKR	CHECKERED			SEQ	SEQUENCE
CI	CLARIFIER INFLUENT	L	LEFT, LONG	SFT	SHAFT
CIP	CAST IRON PIPE	LAB	LABORATORY	SHLD	SHIELD
CJ	CONSTRUCTION JOINT	LAM	LAMINATE	SHT	SHEET
CL	CENTER LINE	LBS	POUNDS	SIM	SIMILAR
CLG	CEILING	LDG	LOADING	SK	SKETCH
CLO	CLOSET	LF	LINEAR FOOT	SOL	SOLENOID
CLR	CLEAR	LG	LENGTH	SPCS	SPACES
CMU	CONCRETE MASONRY UNIT	LH	LEFT HAND	SPEC	SPECIFICATIONS
CO	COMPANY	LL	LIVE LOAD	SP GR	SPECIFIC GRAVITY
COL	COLUMN	LLH	LONG LEG HORIZONTAL	SP HT	SPECIFIC HEAT
CONC	CONCRETE	LLV	LONG LEG VERTICAL	SPRT	SUPPORT
CONSTR	CONSTRUCTION	LPT	LOW POINT	SQ	SQUARE
CONT	CONTINUOUS	LS	LUMP SUM	SST	STAINLESS STEEL
CONTR	CONTRACTOR	LW	LONG WAY	S/S	SERVICE SINK
CPLG	COUPLING			SS	SANITARY SEWER
CJ	CONTROL JOINT	MATL	MATERIAL	STA	STATION
CTR	CENTER	MAX	MAXIMUM	STD	STANDARD
CU	CUBIC	ME	MATCH EXISTING	STIR	STIRRUP
CW	CLOCKWISE	MECH	MECHANICAL	STL	STEEL
		MED	MEDIUM	STM	STORM
D	DEPTH	MFR	MANUFACTURER	STRUCT	STRUCTURE
DBL	DOUBLE	MGD	MILLION GALLONS PER DAY	SUSP	SUSPENDED
DET	DETAIL	MH	MANHOLE	SW	STORM WATER
DF	DRINKING FOUNTAIN	MIN	MINIMUM	SYM	SYMBOL
DI	DUCTILE IRON	MISC	MISCELLANEOUS	SYMM	SYMMETRICAL
DIA	DIAMETER	MJ	MECHANICAL JOINT		
DIM	DIMENSION	MO	MASONRY OPENING	T	TOP
DIP	DUCTILE IRON PIPE	MP	MELTING POINT	T&B	TOP AND BOTTOM
DIR	DIRECTION	MTD	MOUNTED	TECH	TECHNICAL
DISTR	DISTRIBUTION	MTG	MOUNTING	TEMP	TEMPERATURE, TEMPERED
DIV	DIVISION	MTL	METAL	THEO	THEORETICAL
DL	DEAD LOAD			THD	THREAD
DN	DOWN	N	NORTH	THRES	THRESHOLD
DR	DRAIN	NATL	NATIONAL	THRU	THROUGH
DWG	DRAWING	NEG	NEGATIVE	TOF	TOP OF FOOTING
		NET	NETWORK	TOL	TOLERANCE
E	EAST	NEUT	NEUTRAL	TOS	TOP OF STEEL
EA	EACH	NIC	NOT IN CONTRACT	TOT	TOTAL
EF	EACH FACE	NO.	NUMBER	TRANS	TRANSFER
EFL	EFFLUENT	NOM	NOMINAL	TW	TOP OF WALL
EJ	EXPANSION JOINT	NPT	NATIONAL PIPE THREAD	TYP	TYPICAL
ELEC	ELECTRIC	NPW	NON-POTABLE WATER		
ELEV	ELEVATION	NR	NITRATE RECYCLE	UNIF	UNIFORM
ELL	ELBOW	NRFM	NITRATE RECYCLE FORCE MAIN	UON	UNLESS OTHERWISE NOTED
ENCL	ENCLOSE	NTS	NOT TO SCALE	UV	ULTRAVIOLET
EQ	EQUAL				
EQUIP	EQUIPMENT	OBS	OBSOLETE	V	VOLT
EW	EACH WAY	OC	ON CENTER	VAC	VACUUM
EXIST	EXISTING	OD	OUTSIDE DIAMETER	VCT	VINYL COMPOSITION TILE
EXP	EXPANSION	ODE	OXIDATION DITCH EFFLUENT	VCP	VITRIFIED CLAY PIPE
EXT	EXTERIOR	ODI	OXIDATION DITCH INFLUENT	VERT	VERTICAL
		OF	OUTSIDE FACE	VISC	VISCOSITY
FD	FLOOR DRAIN	OH	OVAL HEAD	VLR	VERTICAL LOOP REACTOR
FDN	FOUNDATION	OPER	OPERATED	VLRE	VERTICAL LOOP REACTOR EFFLUENT
FIN	FINISH	OPNG	OPENING	VS	VERSUS
FL	FLOOR	OPP	OPPOSITE	VTR	VENT THROUGH ROOF
FLEX	FLEXIBLE	ORF	ORIFICE		
FLG	FLANGE, FLANGED	ORG	ORIGINAL	W	WEST, WIDTH
FR	FRAME	OVHD	OVERHEAD	W/	WITH
FT	FOOT	OVLD	OVERLOAD	WAS	WASTE ACTIVATED SLUDGE
FTG	FOOTING	OZ	OUNCE	WD	WOOD
				WDW	WINDOW
G	GROUNDED	PC	PIECE	WG	WIRE GAGE
GAL	GALLON	PCF	POUNDS PER CUBIC FOOT	WL	WATER LEVEL
GALV	GALVANIZED	PE	PLAIN END	WPG	WATERPROOFING
GEN	GENERATOR	PEJ	PREMOLDED EXPANSION JOINT	WR	WATER RESISTANT
GENL	GENERAL	PERM	PERMANENT	WS	WASTE SLUDGE
GL	GLASS	PERP	PERPENDICULAR	WSDR	WASTE SLUDGE DRAIN
GND	GROUND	PH	PHASE	WSE	WATER SURFACE ELEVATION
GR	GRADE	PI	PLANT INFLUENT	WWF	WELDED WIRE FABRIC
GRTG	GRATING	PKG	PACKING		
GSKT	GASKET	PL	PLATE	YD	YARD
GYP	GYPSUM	PNEU	PNEUMATIC	YP	YIELD POINT
GYP	GYPSUM WALLBOARD			YR	YEAR

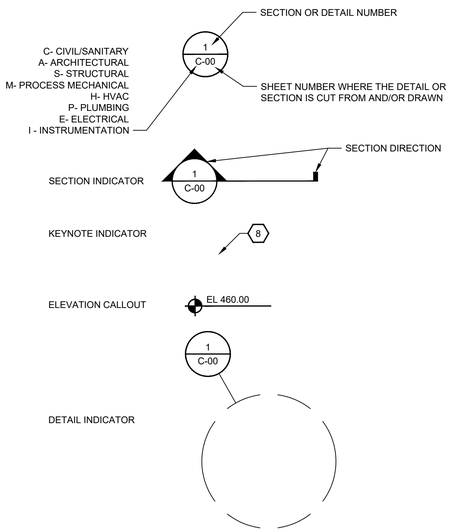
LINETYPES

	EXISTING	NEW
FENCE	X X	
PROPERTY LINE	P/L	
RIGHT OF WAY	R/W	
UNDERGROUND ELECTRIC	UGE	
OVERHEAD UTILITY LINE	OHU	
UNDERGROUND COMMUNICATION	T	
UNDERGROUND FIBER OPTICS	F/O	
CREEK / SWALE		
SILT FENCE		SF
NATURAL GAS	G	
RAILROAD TRACKS		
SANITARY FORCE MAIN		12" FM
SANITARY SEWERS	S	
STORM SEWERS		
WATER LINE	W	
CONTOUR LINE	800	800
SPOT ELEVATION	+800.00	800.00
YARD PIPING		
STORM CULVERT		
PERMANENT EASEMENT		
EXISTING YARD PIPING TO BE ABANDONED IN PLACE	-X-X-X-X-X-X-X-X-X-X-	

MATERIALS - PLAN/SECTION

- EARTH
- CRUSHED STONE
- STRUCTURAL CONCRETE
- GROUT, PLASTER OR SAND
- ASPHALT PAVEMENT

BUBBLE & SECTIONING CONVENTIONS



SYMBOLS

	EXISTING	NEW
WATER METER	WM	WM
LIFT STATION	LS	
FIRE HYDRANT		
AIR RELEASE VALVE	A	
BLOW OFF VALVE	BO	
WATER MAIN BEND		
WATER MAIN CAP/PLUG		
WATER MAIN TEE		
WATER MAIN CROSS		
REDUCER		
WATER VALVE	WV	
WATER MAIN MARKER	W	
PUMP STATION	PS	
WATER SERVICE	WS	
IN LINE CONTROL VALVE	ICV	
SANITARY MANHOLE	S	
CORPORATION STOP	CSS	
SANITARY SEWER MARKER	SA	
SANITARY SEWER VALVE	SV	
SANITARY SEWER VALVE VAULT	V	
SANITARY SEWER WET WELL	WW	
SEPTIC TANK	ST	
CLEAN OUT	C	
CATCH BASIN		
DOUBLE CATCH BASIN		
CURB INLET		
CIRCULAR INLET		
STORM SEWER MANHOLE	ST	
NATURAL GAS METER	GM	
NATURAL GAS PRESSURE VALVE	GPV	
NATURAL GAS STOP	GS	
NATURAL GAS VALVE	GV	
NATURAL GAS MARKER	G	
NATURAL GAS VENT	GV	
NATURAL GAS WELL	GW	
ELECTRIC MANHOLE	E	
ELECTRIC METER	EM	
ELECTRIC PEDESTAL	E	
ELECTRIC TRANSFORMER PAD	ET	
ELECTRIC HAND HOLE BOX	H	
DOWN GUY WIRE		
LIGHT POLE		
UTILITY POLE		
ELECTRIC MARKER	E	
UNDERGROUND FIBER MARKER	FO	
FIBER MANHOLE	FO	
POST		

	EXISTING	NEW
COMMUNICATIONS PEDESTAL	C	
UNDERGROUND TELEPHONE MARKER	T	
TELEPHONE MANHOLE	T	
TELEPHONE PEDESTAL	T	
BOLLARD		
SECTION CORNER		
SURVEY CONTROL POINT		
SURVEY BENCHMARK		
TELEVISION ANTENNA		
FIELD DRAIN	FD	
FLAG POLE		
HEADSTONE		
MAILBOX		
PARKING METER	PM	
PLANTER BOX		
RAILROAD SIGNAL		
RAILROAD GATE		
RIGHT OF WAY MONUMENT	R/W	
PROPERTY CORNER		
ROCK SOUNDING	RS	
SOIL BORING	SB	
ROCK ELEVATION (PROFILE)		
SATELLITE DISH		
SIGN		
SIGN WITH MAST ARM		
SINK HOLE		
IRRIGATION SPRINKLER HEAD		
STEAM MANHOLE	SM	
TRAFFIC LIGHT CONTROL BOX	TR	
TRAFFIC LIGHT MAST POLE		
TRAFFIC LIGHT LOOP DETECTOR		
TRAFFIC LIGHT MANHOLE	TR	
WELL	W	
YARD LIGHT		
MONITORING WELL	MW	
VEGETATION		
DECIDUOUS TREE		
PINE TREE		
TREE STUMP		

NOTE: SYMBOLS, MATERIALS AND ABBREVIATIONS MAY NOT BE ALL-INCLUSIVE. SYMBOLS USED BUT NOT LISTED HEREIN MAY BE DEFINED ELSEWHERE. IF NOT, CONTACT THE ENGINEER FOR CLARIFICATION PRIOR TO BIDDING. SYMBOLS, MATERIALS AND ABBREVIATIONS MISSING FROM THE DRAWINGS DO NOT EXCUSE THE CONTRACTOR FROM PROVIDING THE WORK.

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ENGINEER/ARCHITECT: JOSEPH P. TIERNEY

CONSTRUCTION COMPANY: B.L. BROWN CONSTRUCTION

DATE: 08/29/2023

This document, originally issued, sealed, and signed by Joseph P Tierney, Indiana Professional Engineer, No.19300407, on July 2022, shall not be used in lieu of a certified document.

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SYMBOLS AND ABBREVIATIONS
NEW LIFT STATION AND FORCEMAIN
TOWN OF PENDLETON, INDIANA

DESIGNED:	DRAWN:	REVIEWED:	APPROVED:
JPT	AMR	JPT	JPT

REVISIONS

NO.	DESCRIPTION	DATE	BY
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THIS MARK SHOULD MEASURE EXACTLY 1" WHEN PLOTTED

SCALE CHECK:

DATE: JULY 2022

SCALE: N.T.S.

SHEET NO. G-02

PLOTTED BY: ARowley

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