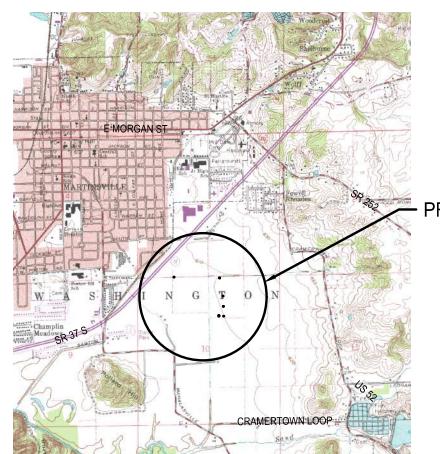
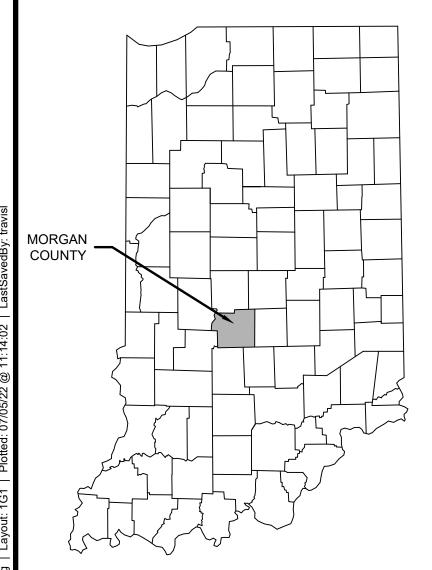
FOR THE OF MARTINSVILLE, INDIANA Purchase Of Martinsville, Indiana Purchas





ENGINEERING

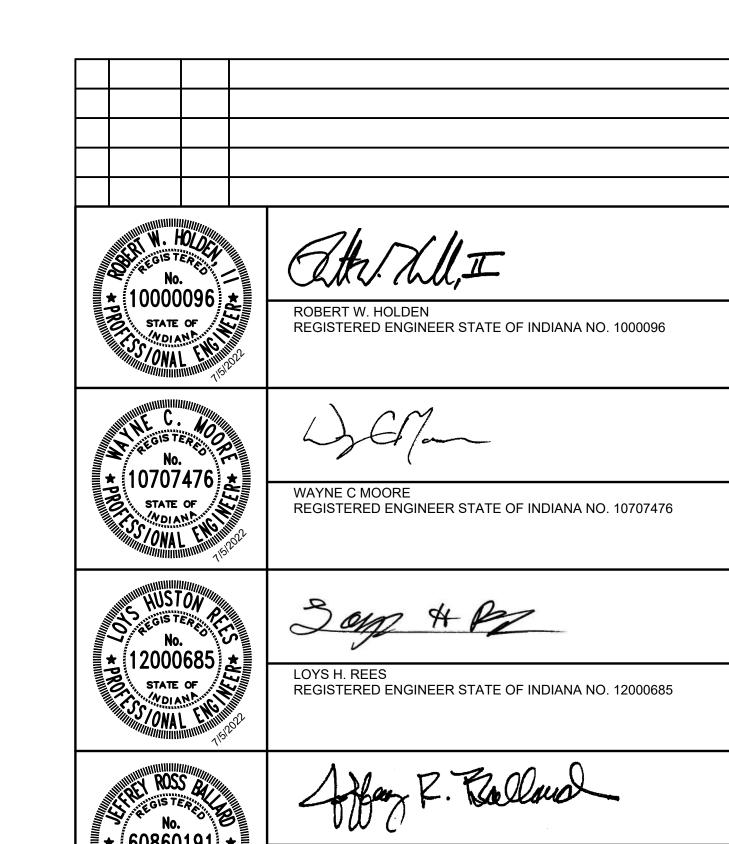
More than a Project™

INDIANAPOLIS Phone: (317) 788-4551 - Fax: (317) 788-4553

PROJECT NO. 245521-04-001

PHIL MCLARY, WWTP SUPERINTENDENT DALE COFFEY, CITY ATTORNEY GARY OAKES, DIRECTOR OF PLANNING & ENGINEERING KENNY COSTIN, BOARD OF WORKS JOHN LILLYWHITE, BOARD OF WORKS KELLY BRAY, BOARD OF WORKS

JULY 2022



JEFFERY R. BALLARD

REGISTERED ENGINEER STATE OF INDIANA NO. 60860191





HORIZONTAL AND VERTICAL CONTROL INFORMATION

. A FIELD SURVEY WAS PERFORMED IN (OCTOBER 2021).

- 2. COORDINATES (INDIANA STATE PLANE, WEST ZONE, NAD 83) AND ELEVATIONS (NAVD 88) ARE BASED ON INCORS.
- 3. UNITS ARE U.S. SURVEY FEET.
- 4. CONTROL POINTS WERE SET USING GPS TECHNIQUES.
- 5. LEVEL LOOPS WERE PERFORMED THROUGH GPS CONTROL POINTS.

- MENT APPROXIMATELY 315' EAST OF ROBERT
- SNAIL IN PAVEMENT IN CUL-DE-SAC BETWEEN CP 24 - MAGNAIL IN PAVEMENT APPROXIMATELY 19' NORTH OF
- CRABAPPLE COURT AND 11' WEST OF CL OF ELM ST.
 CP 25 MAGNAIL IN PAVEMENT IN CUL-DE-SAC BETWEEN 1398 AND 1402 CRABAPPLE COURT.

DRAWING INDEX						
SHEET DESCRIPTION						
GENERAL						
01	COVER SHEET					
02	LOCATION PLAN AND DRAWING INDEX					
03	GENERAL STEET					
WATER MA	AINLPL AT TO LOFILE SHEETS					
10	VA FR MAIN - LINE A					
	WATER MAIN - LINE A PROFILES					
SANITARY	PLAN AND PROFILE SHEETS					
09 - 12	SANITARY FORCE MAIN - LINE A					
13 - 14	SANITARY SEWER - LINE B					
LIFT STATION						
15	NEW LIFT STATION SITE PLAN					
16	NEW LIFT STATION - ELECTRICAL SITE PLAN					
17	NEW LIFT STATION - PLAN AND SECTION					
MISCELLA	NEOUS DETAILS					
18-22	MISCELLANEOUS DETAILS					
MAINTENA	NCE OF TRAFFIC					
23	MAINTENANCE OF TRAFFIC DETAILS					
EROSION	CONTROL DETAILS					
24-25	EROSION CONTROL DETAILS					
ELECTRIC	AL					
26	ONE-LINE AND PANEL SCHEDULE					
27	ELECTRICAL DETAILS					
28	CONTROL PANEL ROOF STRUCTURE DETAILS					

	CONTROL POINTS										
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION							
CP 1	1514918.34	3141095.97	603.14	5/8" REBAR							
CP 4	1514887.70	3141637.90	603.60	MAGNAIL							
CP 6	1514897.32	3142147.31	606.89	MAGNAIL							
CP 10	1515694.74	3143636.27	607.13	MAGNAIL							
CP 11	1516195.76	3143622.58	608.52	MAGNAIL							
CP 12	1516698.68	3143607.86	610.11	MAGNAIL							
CP 13	1517202.74	3143594.42	611.55	MAGNAIL							
CP 14	1517704.93	3143579.23	613.19	MAGNAIL							
CP 22	1517763.26	3141796.57	602.25	MAGNAIL							
CP 23	1517482.29	3142006.50	604.98	MAGNAIL							
CP 24	1517491.51	3142469.37	605.13	MAGNAIL							
CP 25	1517498.76	3142959.08	606.89	MAGNAIL							

DATE INITIALS REVISION DESCRIPTIONS SCALE VERIFICATION DRAWN BY BAR IS ONE INCH LONG ON ORIGINAL DRAWING RWH ISSUE DATE JULY 2022 PROJECT NUMBER

245521-04-001

No.
10000096 ★ ath All, I

WESSLER ENGINEERING More than a Project™ EAST SERVICE AREA WATER AND SEWER EXTENSIONS

CITY OF MARTINSVILLE, INDIANA

LOCATION PLAN AND DRAWING INDEX

SHEET NO.

TOTAL SHEETS

SYMBOL	= -			_	
BM	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
TRM	BENCH MARK	(CIS)	CISTERN		EASEMENT - CONSTRUCTION/PERMANENT
SB 01	TEMPORARY BENCH MARK	EM O	ELECTRIC METER		LOT BOUNDARY
•	SOIL BORING LOCATION	AC	AIR CONDITIONING UNIT	R —	PROPERTY BOUNDARY
	SECTION CORNER	xxx	UTILITY RISER (DEFINED BY UTILITY)		RIGHT-OF-WAY - TEMPORARY/PERMANEN
	DRILL HOLE IN CONCRETE/HARRISON MONUMENT	xxx	UTILITY PEDESTAL (DEFINED BY UTILITY)		SECTION BOUNDARY
©P	CONTROL POINT (SET/FOUND)	X	UTILITY MARKER (DEFINED BY UTILITY)		WETLANDS
MG	MAGNETIC NAIL (SET/FOUND)		JOINT POWER/TELEPHONE POLE	849	CONTOUR - INTERMEDIATE ELEVATION
(BS)	BOAT SPIKE (SET/FOUND)		LIGHT POLE	850	CONTOUR - INDEX ELEVATION
PK	PK NAIL (SET/FOUND)		LIGHT ON POWER POLE	OHE OHE	OVERHEAD ELECTRIC
RS	RAILROAD SPIKE (SET/FOUND)	Ţ)	LIGHT ON JOINT POLE	OHC OHC	OVERHEAD CABLE TV
R/W	R/W MARKER - CONCRETE/GRANITE/STONE	P	POWER POLE	OHT OHT	OVERHEAD TELEPHONE
(a)	IRON PIPE/IRON PIN/REBAR (WITH DIAMETER)	T	TELEPHONE POLE	UGC — UGC —	UNDERGROUND CABLE TV
(BP)	BRASS PLUG	\(\phi\)	LAMP POST	UGE — UGE —	UNDERGROUND ELECTRIC
©	CABLE TV MANHOLE	\rightarrow	GUY ANCHOR	UGF — UGF —	UNDERGROUND FIBER OPTIC
E	ELECTRIC MANHOLE		GUY POLE OR STUB	G — G — G —	GAS MAIN
G	GAS MANHOLE		CONTROLLER CABINET	DGDG	DIGESTER GAS
0	OTHER MANHOLE	(FP)	FLAG POLE	P — P — P — P —	PETROLEUM MAIN
T	TELEPHONE MANHOLE	\circ	POST	UGT UGT	UNDERGROUND TELEPHONE
TEL	TELEPHONE VAULT	•	GROUND LIGHT	w w w	WATER MAIN
1)	TRAFFIC MANHOLE	M	MAILBOX	w w w	WATER SERVICE
Θ	TRAFFIC HANDHOLE	MM	DOUBLE/MULTIPLE MAILBOX		FORCEMAIN
(W)	WATER MANHOLE		MAST ARM POLE		GRAVITY SEWER PIPE
A	AIR RELEASE VALVE		TRAFFIC SIGNAL STRAIN POLE		PLANT CHLORINE PIPE
<u>\$</u>	SANITARY SEWER MANHOLE		SIGNAL LOOP DETECTOR BOX		TOP OF BANK/TOE OF SLOPE
D	DRAINAGE/STORM SEWER MANHOLE	\bigcirc	SIGNAL LOOP DETECTOR LOOP		CENTERLINE OF DITCH/SWALE/STREAM
c o	SANITARY SEWER CLEANOUT		SIGN - SINGLE POST	xxxxxxxxx	FENCE - FIELD
ST	SEPTIC TANK	- 0 0	SIGN - DOUBLE POST		FENCE - METAL
♥ ♥	VALVE VAULT		SIGN - RAILROAD SIGNAL		FENCE - WOOD
	BEEHIVE INLET	R/R	SIGN - RAILROAD CROSSING	0 0 0 0 0	GUARDRAIL
	CURB INLET	\bigcirc	BUSH		STREAM
	DROP INLET		STUMP		TREE/BRUSH LINE
	CATCH BASIN	**	TREE - CONIFEROUS		
p.s	DOWNSPOUT		TREE - DECIDUOUS		
GM	GAS METER	₩ ₩	ROCK OUTCROP		1017
GV	GAS VALVE	6 ^A	SATELLITE		
- 9	GAS SERVICE VALVE	SPH	SPRINKLER CONTROL VALVE	_5	
PV	PETROLEUM VALVE	NN NN	WATER METER	CAST	
- S -	PETROLEUM SHUTOFF VALVE	w	WATER VALVE		
	GAS STATION MONITORING WELL	450	WATER SERVICE VALVE	PAMI	ınıana 81'
	GAS STATION FILL CAP	<u> </u>	WATER WE		
	NATURAL GAS WELL/STORAGE WELL	(w w)	WETTELL	K	now what's below .
. P.	SPRINKLER HEAD		FILE		Call before you dig
\cup	OF MININELLY FIEAD		PROCESS VALVE		

ABOVE FINISHED PLOOR ABOVE FINISHED PLOOR BPS RRON PIPE SIZE RRON PIPE SIZE ALLIM ALUMINUM ALUMINUM ALUMINUM APPC APPERABET LB POUND(S) APPROX A		TABLE OF ABBREVIATIONS								
ALUM ALUMNUM SPC ONDRAN STATE PLANE COGROINATE APPROX APPROXIMATE(LY) APPROX APPROXIMATE(LY) APPROX APPROXIMATE(LY) APPROX APPROXIMATE(LY) APPROX APPROXIMATE(LY) ASSOC ASSOCIATES ASSOCIAT	ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION						
ALDIM APAPENT APPROX APPROXIMATELY ASSOCIATES AMERICAN SOCIETY OF TESTING MATERIALS MAEX MATCHANICAL JOINT ANTENIAL MATERIAL MATCHANICAL JOINT ANTERIAL BILL MATERIAL	AFF	ABOVE FINISHED FLOOR	IPS	IRON PIPE SIZE						
APPROX APPROXIMATE(LY) APPROXIMATE(LY) APPROXIMATE ASSOC ASSOCATES IS LIFE STATION LANE LIFE STATION ASSTM AMERICAN SOCIETY OF TESTING MATERIALS MAEX MATCH ENSTRING AVERAGE MATL MATCHAL	ALUM	ALUMINUM	ISPC							
ASPH ASPHALT LN LANE ASSOC ASSOCIATES AMERICAN SOCIETY OF TESTING MATERIALS MALE AMERICAN SOCIETY OF TESTING MATERIALS MALE AVENUE BLUD BULLEVARD BULLEVARD MAL	APP	APPARENT	LB	POUND(S)						
ASSOC ASSOCIATES AMERICAN SOCIATES AMERICAN SOCIATES AMERICAN SOCIATES AMERICAN SOCIATES MY AMERICAN SOCIATES MY AMERICAN SOCIATES MY MY MORE AVENUE MY AMERICAN SOCIATES MY MY MORE MACHANCAL JOINT MAX MANUM MANUM BENCHANACA MIN MIN MIN MIN MIN MIN MIN MI	APPROX	APPROXIMATE(LY)	LF	LINEAR FEET						
ASTM AMERICAN SOCIETY OF TESTING MATERIALS AVE AVENUE MJ MECHANICAL JOINT AVG AVENUE MJ MECHANICAL JOINT AVG AVERAGE MATL BLOG BULLDING MAX MATL BLOG BULLDING MAX MAXIMUM BELVD BOULEVARD MH MAX MAXIMUM BELVD BOULEVARD MH MAX MAXIMUM BENCHMARK MIN MINNUM BENCHMARK MIN MINNUM CO CLEANOUT MISC MISCELLANEOUS CI CAST IRON MISC MACELLANEOUS CI CAST IRON MISC MACELLANEOUS CI CAST IRON MISC MISCELLANEOUS CI CAST IRON MISCELLANEOUS COMP CORRUSATED METAL PIPE NO. NO. NORTHING, NORTH MOS NATIONAL GEODETIC SURVEY MODIO CONCRETE MISCON MISCELLANEOUS COND CONCRETE CONT CONTROLOS CONCRETE CONT CONTROLOS	ASPH	ASPHALT	LN	LANE						
AVE AVENUE MJ MECHANICAL JOINT AVG AVERAGE MATL MATERIAL ANG AVERAGE MATL MATERIAL BLOG BUILDING MAX MAX MAXIMUM BLUD BOULEVARD MH MAX MAX MAXIMUM BLUD BOULEVARD MH MM MAX BEND BENCHMARK MIN MINIMUM COC CLEANOUT MISC MISCLANEOUS CI CAST IRON MISCLANEOUS COLL CAST IRON MISCLANEOUS CON INTERLATED CON I CONCRETE NOON NIMBER CON I CONCRETE MASONRY UNIT OC ON CENTER CONC CONTROL POINT OC OUTSIDE DIMMETER CONT CONTROL POINT PI POINT OF TAXABORT CORR POLY POLYTEVILE CORR POLY POLYTEVILE CORR CORNIGATED PLASTIC PIPE POT POINT OF TAXABORT CRISTIN CRUSHED STONE PI POINT OF TAXABORT PIPE COT CRISTIN CRUSHED PIPE COT DUCTILE IRON MECHANICAL JOINT R CRAS IS CRUSHED STONE DID DUCTILE IRON PIPE SIZE CORN CRUSHED STORE E EAST SET STANLESS STEEL BE EACH FACE SAYA SECTION SECTION SERVICE EN EACH FACE SAYA SECTION SECTION SERVICE EN EACH ACAC SAYA SECTION SECTION SECTION FINE SECTION FINE SECTION FINE SECTION FINE SECTION FINE SECTION SECTIO	ASSOC	ASSOCIATES	LS	LIFT STATION						
AVEG AVERAGE MATL MATERIAL BLIDG BUILDING MAX MAXIMUM BLIDD BOULEVARD MH MANHOLE BM GENCHMARK MIN MIN MINIMUM GENCHMARK MIN MINIMUM CO CLEANOUT MISC MISCELLANEOUS CI CAST IRON MINER MANACTURER CL CENTER LINE N NORTHING, NORTH CL CENTER LINE N NORTHING, NORTH COMA COLD MIX ASPHALT NOS COMP CORRUGATED METAL PIPE NO. NUMBER COMU CONCRETE MASONRY UNIT OC ON CENTER CONT CONCRETE MASONRY UNIT OC ON CENTER CONT CONCRETE MASONRY UNIT OC ON CENTER CONT CONTROLOUS PC POLY POLYTHYLENE CONT CONTROLOUS PC POLY POLYTHYLENE COP CONTROL PONT PI PI POINT OF INTERSECTION COP CUBIC YARD PISSTIC PIPE POT POINT OF TANGENT (BEST MASON COP CUBIC YARD PISSTIC PIPE COD DEPTH PT POUNT OF TANGENT (BEST MASON COD DEPTH PT POUNT OF TANGENT (BEST MASON COD DUCTLE IRON MECHANICAL JOINT R CAST STANDARD PIPE COD DUCTLE IRON MECHANICAL JOINT R CAST STANDARD PIPE COD DUCTLE IRON PIPE COD DUCTLE IRON PIPE COD DUCTLE IRON PIPE COR DUCTLE IRON PIPE COR DUCTLE IRON PIPE COR DUCTLE IRON PIPE COR DRIVE SE STANDARD STREAM PIPE COR DRIVE SE STANDARD MINIMISTIN SECTION COR STANDARD MINIMISTIN SECTION COR STANDARD DIMENSION RATIO COR DRIVE SET STANDARD MINIMISTIN RATION COR STANDARD MINIMISTIN SECTION COR STANDARD DIMENSION RATIO COR STANDARD MINIMISTIN SECTION CORD SALVANIZED CO	ASTM	AMERICAN SOCIETY OF TESTING MATERIALS	MA EX	MATCH EXISTING						
BLUD	AVE	AVENUE	MJ	MECHANICAL JOINT						
BUND BOULEVARD MH MANHOLE	AVG	AVERAGE	MATL	MATERIAL						
BENCHMARK	BLDG	BUILDING	MAX	MAXIMUM						
CO CLEANQUT CI CLEANQUT CLEANQUT	BLVD	BOULEVARD	МН	MANHOLE						
CI CASTIRON MNFR MANUFACTURER CL CENTER LINE N NONTHING, NORTH CMM COLD MIX ASPHALT NGS NATIONAL GEODETIC SURVEY CMP CORRUGATED METAL PIPE NO. NUMBER CMU CONCRETE MASONRY UNIT OC ON CENTER CMU CONCRETE MASONRY UNIT OC ON CENTER CONC CONCRETE OD OUTSIDE DIAMETER CONT CONTINUOUS PC POINT OF CURVE (BEGIN CURVE) CONT CONTINUOUS PC POINT OF CURVE (BEGIN CURVE) CORR CORNER POLY POLYETHYLENE CP CONTROL POINT CPP CORRUGATED PLASTIC PIPE POT POINT OF TANGENT (FOR NUMBER) CPP CORRUGATED PLASTIC PIPE POT POINT OF TANGENT (FOR NUMBER) CPP CORRUGATED PLASTIC PIPE POT POINT OF TANGENT (FOR NUMBER) CPP CORRUGATED PLASTIC PIPE POT POINT OF TANGENT (FOR NUMBER) CPP CORRUGATED PLASTIC PIPE POT POINT OF TANGENT (FOR NUMBER) CPP CORRUGATED PLASTIC PIPE POT POINT OF TANGENT (FOR NUMBER) CPP CORRUGATED PLASTIC PIPE POT POINT OF TANGENT (FOR NUMBER) CPP CORRUGATED PLASTIC PIPE POT POINT OF TANGENT (FOR NUMBER) CPP CORRUGATED PLASTIC PIPE POT POINT OF TANGENT (FOR NUMBER) CPP CORRUGATED PLASTIC PIPE POT POINT OF TANGENT (FOR NUMBER) CPP CORRUGATED PLASTIC PIPE POT POINT OF TANGENT (FOR NUMBER) CPP CORRUGATED PLASTIC PIPE POT POINT OF TANGENT (FOR NUMBER) CPP CORRUGATED PLASTIC PIPE POT POINT OF TANGENT (FOR NUMBER) CPP CORRUGATED PIPE SIZE S SOUTH CREATED POINT OF TANGENT PIPE PIPE PIPE PIPE PIPE PIPE PIPE PIP	BM	BENCHMARK	MIN	MINIMUM						
CL	CO	CLEANOUT	MISC	MISCELLANEOUS						
CMA COLD MIX ASPHALT NGS NATIONAL GEODETIC SURVEY CMP CORRUGATED METAL PIPE NO. NUMBER CMU CONCRETE MASONRY UNIT OC ON CENTER CONC CONCRETE OD OUTSIDE DIAMETER CONT CONTINUOUS PC POINT OF CURVE (BEGIN CURVE) COR CORNER POLY POLYETHYLENE CPP CONTROL POINT PI POINT OF INTERSECTION CPP CORRUGATED PLASTIC PIPE POT POINT OF TANGENT PIPE CPD CUBIC YARD PSI POUNDS PERS SOLEMAN DD DUCTILLE IRON PVC PSO YAN NICHEORIDE DIM DUCTILLE IRON MECHANICAL JOINT R ROW REINFORCED CONCRETE PIPE DIP DUCTILLE IRON PIPE ROW REINFORCED CONCRETE PIPE DIP	CI	CAST IRON	MNFR	MANUFACTURER						
CMP CORRUGATED METAL PIPE NO. NUMBER CMU CONCRETE MASONRY UNIT OC ON CENTER CONC CONCRETE OD OUTSIDE DIAMETER CONT CONTROLOUS PC POINT OF CURVE (BEGIN CURVE) CORR CORNER POLY POLYETHYLENE CP CONTROL POINT PI POINT OF TANGENT CP CONTROL POINT PI POINT ON TANGENT CP CONTROL POINT PI POINT ON TANGENT CR STN CRUSHED STONE PT POINT OF TANGENT CR STN CRUSHED STONE PT POINT OF TANGENT CD DEPTH PT POINT OF TANGENT CD DEPTH PT POINT OF TANGENT DI DUTILE IRON PVC PSC N. NIN GHRORIDE DIMJ DUCTILE IRON MECHANICAL JOINT R RAD NS DIA DUBLE ROW RAD NS DIP DUCTILE IRON PIPE ROW RAD NS DIP DUCTILE IRON PIPE SIZE	CL	CENTER LINE	N	NORTHING, NORTH						
CMU CONCRETE MASONRY UNIT OC ON CENTER CONC CONCRETE OD OUTSIDE DIAMETER CONT CONTROL OWNER PC POINT OF CURVE (BEGIN CURVE) CORR CORNER POLY POLYTHYLENE CP CONTROL POINT PI POINT OF INTERSECTION CPP CORRUGATED PLASTIC PIPE POT POINT OF INTERSECTION CPD CORRUGATED PLASTIC PIPE POT POINT OF INTERSECTION CPD CORRUGATED PLASTIC PIPE POT POINT OF INANCENT (PAC NOTE) CPD CORRUGATED PLASTIC PIPE POT POINT OF INANCENT (PAC NOTE) CPD CORRUGATED PLASTIC PIPE POT POINT OF INANCENT (PAC NOTE) CPD CUBIC YARD PSI POUNT OF INANCENT (PAC NOTE) DICTOR DELOTIC PLASTIC PIPE POINT OF INANCENT (PAC NOTE) DID DUCTILE IRON PVC PCA N. N. CHORDID DID DUBLIE BROWN MECHANICAL JOINT R RAN S. DIP DUCTILE IRON PIPE ROW REINFORCED CONCRETE PIPE DIP DUCTILE	CMA	COLD MIX ASPHALT	NGS	NATIONAL GEODETIC SURVEY						
CONC CONCRETE OD OUTSIDE DIAMETER CONT CONTINUOUS PC POLY POLYT POLYETHYLENE COR CORNER POLY POLY POLYTHYLENE COP CONTROL POINT PI POINT OF INTERSECTION PI POINT OF TANGENT (POLY COP CORRUGATED PLASTIC PIPE POT POINT OF TANGENT (POLY COP CORRUGATED PLASTIC PIPE POT POINT OF TANGENT (POLY COP CORSTN CRUSHED STONE PT POINT OF TANGENT (POLY COP COBIC COBI	CMP	CORRUGATED METAL PIPE	NO.	NUMBER						
CONT CONTINUOUS PC POINT OF CURVE (BEGIN CURVE) COR CORNER POLY POLYETHYLENE CP CONTROL POINT PI POINT OF INTERSECTION CPP CORNUGATED PLASTIC PIPE POT POINT OF TANGENT CR STN CRUSHED STONE PT POINT OF TANGENT (FIRE N.) WE CWD CUBIC YARD PSI POUNDS PER SCOLA WE DD DEPTH PT POINT OF TANGENT (FIRE N.) WE DD DUDTILE IRON PVC PC N. N. C. PORIDE DI MJ DUCTILE IRON MECHANICAL JOINT R ALL S. DBL DOUBLE ROW REINFORCED CONCRETE PIPE DIP DUCTILE IRON PIPE RCOP REINFORCED CONCRETE PIPE DIP DUCTILE IRON PIPE SIZE SS STATE ROUTE DR DRIVE SR STATISH ROUTE EE EASTING, EAST SST STAINLESS STEEL EE EACH FACE SVA SERVICE VALVE ASSEMBLY EW EACH WAY SB SOIL BORRING	CMU	CONCRETE MASONRY UNIT	ос	ON CENTER						
CORNE CORNER CORNER CORNER POLY POLYETHYLENE CP CONTROL POINT PI POINT OF INTERSECTION CPP CORRUGATED PLASTIC PIPE POT POINT ON TANGENT CRUSHED STONE PT POINT OF TANGENT (FIRST) LIVE CYD CUBIC YARD PSI POUNDS PER SIGN MAN DI	CONC	CONCRETE	OD	OUTSIDE DIAMETER						
COPP CONTROL POINT PI POINT OF INTERSECTION COPP CORRUGATED PLASTIC PIPE POT POINT ON TANGENT CRISTIN CRUSHED STONE PT POINT OF TANGENT (FILE ALVE) COTO CUBIC YARD PSI POUNDS PER SION SIVE COTO CUBIC YARD YARD YARD YARD YARD YARD YARD YARD	CONT	CONTINUOUS	PC	POINT OF CURVE (BEGIN CURVE)						
COPP CORRUGATED PLASTIC PIPE POT POINT ON TANGENT CR STN CRUSHED STONE PT POINT OF TANGENT (FIRST IN ME) CYD CUBIC YARD PSI POUNDS PER S OLI AND D D DEPTH PT POINT POIN	CNR	CORNER	POLY	POLYETHYLENE						
COPP CORRUGATED PLASTIC PIPE POT POINT ON TANGENT CR STN CRUSHED STONE PT POINT OF TANGENT (FUSION ME) CYD CUBIC YARD PSI POUNDS PER S OLIVE PT POINT OF TANGENT (FUSION ME) DI DEPTH PT POINT PT POINT POIN	 CP	CONTROL POINT	Pl							
CR STN CRUSHED STONE PT POINT OF TANGENT (FACULT VE) CVD CUBIC YARD PSI POUNDS PER SOLD AND DI DEPTH PT POINT DI DUCTILE IRON PVC PATANY CHARRIDE DIMJ DUCTILE IRON MECHANICAL JOINT R RADIS DBL DOUBLE ROW REINFORCED CONCRETE PIPE DIA DIAMETER RCP REINFORCED CONCRETE PIPE DIP DUCTILE IRON PIPE ROAD SOUTH DIP DUCTILE IRON PIPE SIZE SOUTH SOUTH DR DRIVE SR STATINLESS STEEL E EASTING, EAST SST STAINLESS STEEL EE EASTING, EAST SST STAINLESS STEEL EW EACH WAY SB SOIL BORING EE EACH WAY SB SOIL BORING EA EACH WAY SB SOIL BORING EE EACH WAY SB SOIL BORING EE EACH WAY SB SOIL BORING<				-						
CYD CUBIC YARD PSI POUNDS PER SIZULA IN DEPTH PT POINT										
DEPTH PT POINT DID DEPTH PYC PC PC YN N CHRORIDE DID DUCTILE IRON MECHANICAL JOINT R DIMJ DUCTILE IRON MECHANICAL JOINT R DIBL DOUBLE ROW NAME OF WAY DIA DIAMETER RCP REINFORCED CONCRETE PIPE ROAD DIP DUCTILE IRON PIPE DIP DUCTILE IRON PIPE DIP DUCTILE IRON PIPE DIP DUCTILE IRON PIPE DIP ROAD DIR DRIVE SR STATE ROUTE E EASTING, EAST SST STAINLESS STEEL EF EACH FACE SVA SERVICE VALVE ASSEMBLY EW EACH WAY SB SOIL BORING EA EACH SCHED SCHEDULE EJ EATEN AND RON WORKS SDR STANDARD DIMENSION RATIO EL BEY JON SECT SECTION EX BRISTING SF SQUARE FEET EXP EXPANSION SHT SHEET FINISH FLOOR ELEVATION SPECS SPECIFICATION(S) FORCE MAIN SQ SQUARE FIND FOUND SRF STATE REVOLVING FUND FIT FEET FIT FEET ST STREET FITG FOOTING STA STATION GALV GALVANIZED SYD SQUARE YARD GROSS GIOBAL POSITIONING SYSTEM TBM TEMPORARY BENCHMARK HIMA HOT MIX ASPHALT TC TOP OF CASTING HOPE HIGH DENSITY POLYETHYLENE TYP TYPICAL HORIZ HORIZONTAL UNO UNLESS NOTED OTHERWISE UND INSIDE DIAMETER USGS US GEOLOGICAL SURVEY INDICT INDIVINA DEPARTMENT OF TRANSPORTATION INSIDE DIAMETER USGS US GEOLOGICAL SURVEY INDICT INDIVINA DEPARTMENT OF TRANSPORTATION INSTRUMENT WSE WATER SURFACE ELEVATION										
DI DUCTILE IRON PVC PG V NA CHAORIDE DI MJ DUCTILE IRON MECHANICAL JOINT R CAL S DEL DOUBLE ROW RESERVORVAY DIA DIAMETER RCP REINFORCED CONCRETE PIPE DIP DUCTILE IRON PIPE DIP DUCTILE IRON PIPE DIP DUCTILE IRON PIPE SIZE DIR DRIVE SR STATE ROUTE E EASTING, EAST SST STAINLESS STEEL EF EACH FACE SVA SERVICE VALVE ASSEMBLY EW EACH WAY SB SOIL BORING EACH SCHED SCHEDULE EJ FATT MARKON WORKS SDR STANDARD DIMENSION RATIO EL BEN ION SECT SECTION EXX LASTING SF SQUARE FEET EXP EXPANSION SHT SHEET EXP EXPANSION SHT SHEET EXP EXPANSION SPECS SPECIFICATION(S) FORCE MAIN SQ SQUARE FRID FOOTING STA STATE REVOLVING FUND FT FEET ST STREET FTG FOOTING STA STATION GALV GALVANIZED SYD SQUARE YARD GPS GLOBAL POSITIONING SYSTEM TBM TEMPORARY BENCHMARK HMA HOT MIX ASPHALT TC TOP OF CASTING HOPE HIGH DENSITY POLYETHYLENE TYP TYPICAL HORIZONTAL UNO UNLESS NOTED OTHERWISE IN INSIDE DIAMETER USGS US GEOLOGICAL SURVEY INDICT INSIDE DIAMETER USGS USGES USTATION INDICT INSIDE DIAMETER USGS USGES USGES USCALORION.										
DI MJ DUCTILE IRON MECHANICAL JOINT R RADIOS DBL DOUBLE ROW RISE OF-WAY DBL DOUBLE ROW RISE OF-WAY DBL DOUBLE ROW RISE OF-WAY DBL DIAMETER RCP REINFORCED CONCRETE PIPE DIPS DUCTILE IRON PIPE DIPS DUCTILE IRON PIPE DR DOUBLE SST SOUTH DR DRIVE SR STATE ROUTE E EASTING, EAST SST STAINLESS STEEL EF EACH FACE SVA SERVICE VALVE ASSEMBLY EW EACH WAY SB SOIL BORING EA EACH SCHED SCHEDURE EL EL LE VION SECT SECTION EX LEASTING SF SQUARE FEET EXP EXPANSION SHT SHEET FINISH FLOOR ELEVATION SPECS SPECIFICATION(S) DE FORCE MAIN SQ SQUARE FINISH FOOTING STA STATE ROUTE FIT FEET ST STREET FITG FOOTING STA STATION GALV GALVANIZED SYD SQUARE YARD GOS GLOBAL POSITIONING SYSTEM TBM TEMPORARY BENCHMARK HIMM HOT MIX ASPHALT TC TOP OF CASTING HOPE HIGH DENSITY POLYETHYLENE TYPP TYPICAL INCO INCORPORATED VLV INDIAN DEPARTMENT OF TRANSPORTER INSTRUMENT INSTRUMENT WASE WATER SUFFACE ELEVATION WEST WATER SUFFACE ELEVATION VERT VERTICAL WINDIAN DEPARTMENT OF TRANSPORTATION WINDIAN DEPARTMENT OF TRANSPORTATION INSTRUMENT WASE WATER SUFFACE ELEVATION										
DUBLE ROW REPORTANY DIA DIAMETER RCP REINFORCED CONCRETE PIPE DIP DUCTILE IRON PIPE DIPS DUCTILE IRON PIPE SIZE DIPS DICTILE IRON PIPE SITE SITE IRON PIPE SITE IRON PIPE SITE IRON PIPE SITE IRON PIP										
DIA DIAMETER RCP REINFORCED CONCRETE PIPE DIP DUCTILE IRON PIPE DIPS DUCTILE IRON PIPE SIZE DIPS SOUTH DIPS STATE ROUTE E EASTING, EAST SST STAINLESS STEEL EF EACH FACE SVA SERVICE VALVE ASSEMBLY EW EACH WAY SB SOIL BORING EA EACH SCHED SCHEDULE EJ EACH WAY SB SOIL BORING EA EACH SCHED SCHEDULE EJ EATTE ANARON WORKS SDR STANDARD DIMENSION RATIO EL BEVLION SECT SECTION EX DISTING SF SQUARE FEET EXPANSION SHT SHEET FINISH FLOOR ELEVATION SPECS SPECIFICATION(S) FORCE MAIN SQ SQUARE FIND FOUND SRF STATE REVOLVING FUND FT FEET ST STREET FTG FOOTING STA STATION GALV GALVANIZED SPS GLOBAL POSITIONING SYSTEM TBM TEMPORARY BENCHMARK HOT MIX ASPHALT TC TOP OF CASTING HOPE HIGH DENSITY POLYETHYLENE TYP TYPICAL HORIZ HORIZONTAL UNO UNLESS NOTED OTHERWISE INSIDE DIAMETER USGS US GEOLOGICAL SURVEY INDICH INCORPORATED VLV VALVE INDOT INDIAN DEPARTMENT OF TRANSPORTATION WEST WATER SURFACE ELEVATION										
DIP DUCTILE IRON PIPE ROAD DIPS DUCTILE IRON PIPE SIZE DIR DRIVE SR STATE ROUTE E EASTING, EAST SST STAINLESS STEEL EF EACH FACE SVA SERVICE VALVE ASSEMBLY EW EACH WAY SB SOIL BORING EACH SCHED SCHEDULE EJ FATE VARRON WORKS SDR STANDARD DIMENSION RATIO EL EVILON SECT SECTION EX BASTING SF SQUARE FEET EXP EXPANSION SHT SHEET FINISH FLOOR ELEVATION SPECS SPECIFICATION(S) FORCE MAIN SQ SQUARE FIND FOUND SRF STATE REVOLVING FUND ET FEET ST STREET FTG FOOTING STA STATE ON ST										
DIPS DUCTILE IRON PIPE SIZE DR DRIVE E PASTING, EAST E EACH FACE E EACH FACE E EACH WAY E EACH SCHED E EACH S			TO TO							
DR DRIVE SR STATE ROUTE E EASTING, EAST SST STAINLESS STEEL EF EACH FACE SVA SERVICE VALVE ASSEMBLY EW EACH WAY SB SOIL BORING EAA EACH SCHED SCHEDULE EJ EAST STAINLESS STEEL EJ EAST STAINLESS STEEL EJ EAST SCHED SCHEDULE EJ EAST STAINLE SON WORKS SDR STANDARD DIMENSION RATIO EL BEVLON SECT SECTION EX ESTING SF SQUARE FEET EXP EXPANSION SHT SHEET FINISH FLOOR ELEVATION SPECS SPECIFICATION(S) M FORCE MAIN SQ SQUARE FIND FOUND SRF STATE REVOLVING FUND FT FEET ST STREET FTG FOOTING STA STATION GALV GALVANIZED SYD SQUARE YARD GPS GLOBAL POSITIONING SYSTEM TBM TEMPORARY BENCHMARK HMA HOT MIX ASPHALT TC TOP OF CASTING HOPE HIGH DENSITY POLYETHYLENE TYP TYPICAL HOPE HIGH DENSITY POLYETHYLENE TYP TYPICAL HORIZ HORIZONTAL UNO UNLESS NOTED OTHERWISE ID INSIDE DIAMETER USGS US GEOLOGICAL SURVEY INDOT INDANA DEPARTMENT OF TRANSPORTATION WES WATER SURFACE ELEVATION										
E EASTING, EAST STAINLESS STEEL EF EACH FACE SVA SERVICE VALVE ASSEMBLY EW EACH WAY SB SOIL BORING EA EACH SCHED SCHEDULE EJ EATT ANARON WORKS SDR STANDARD DIMENSION RATIO EL EEVATON SECT SECTION EX BASTING SF SQUARE FEET EXPANSION SHT SHEET FINISH FLOOR ELEVATION SPECS SPECIFICATION(S) FORCE MAIN SQ SQUARE FOUND SRF STATE REVOLVING FUND FT FEET ST STREET FOOTING STA STATION GALV GALVANIZED SYD SQUARE YARD GPS GLOBAL POSITIONING SYSTEM TBM TEMPORARY BENCHMARK HMA HOT MIX ASPHALT TC TOP OF CASTING HOPE HIGH DENSITY POLYETHYLENE TYP TYPICAL HORIZ HORIZONTAL UNO UNLESS NOTED OTHERWISE ID INSIDE DIAMETER USGS US GEOLOGICAL SURVEY INDOT INDIAN DEPARTMENT OF TRANSPORTATION WATER SURFACE ELEVATION WICH WATER SURFACE ELEVATION WICH WATER SURFACE ELEVATION WATER SURFACE ELEVATION WATER SURFACE ELEVATION WATER SURFACE ELEVATION			SR							
EFF EACH FACE SVA SERVICE VALVE ASSEMBLY EW EACH WAY SB SOIL BORING EA EACH SCHED SCHEDULE EJ EATT MAKRON WORKS SDR STANDARD DIMENSION RATIO EL EVILLON SECT SECTION EX BRISTING SF SQUARE FEET EXP EXPANSION SHT SHEET FINISH FLOOR ELEVATION SPECS SPECIFICATION(S) M FORCE MAIN SQ SQUARE FIND FOUND SRF STATE REVOLVING FUND FT FEET ST STREET FTG FOOTING STA STATION GALV GALVANIZED SYD SQUARE YARD GRAV GALVANIZED SYD SQUARE YARD GRAV GALVANIZED SYD SQUARE YARD HIGH DENSITY POLYETHYLENE TYP TYPICAL HORIZ HORIZONTAL UNO UNLESS NOTED OTHERWISE IND INSIDE DIAMETER USGS US GEOLOGICAL SURVEY INDOT INDIAN DEPARTMENT OF TRANSPORTATION WEE WATER SURFACE ELEVATION WIDTH, WEST WATER SURFACE ELEVATION										
EW EACH WAY SB SOIL BORING EA EACH SCHED SCHEDULE EJ FATTENAIARON WORKS SDR STANDARD DIMENSION RATIO EL EVALON SECT SECTION EX LASTING SF SQUARE FEET EXP EXPANSION SHT SHEET FINISH FLOOR ELEVATION SPECS SPECIFICATION(S) M FORCE MAIN SQ SQUARE FND FOUND SRF STATE REVOLVING FUND FT FEET ST STREET FTG FOOTING STA STATION GALV GALVANIZED SYD SQUARE YARD GPS GLOBAL POSITIONING SYSTEM TBM TEMPORARY BENCHMARK HMA HOT MIX ASPHALT TC TOP OF CASTING HOPE HIGH DENSITY POLYETHYLENE TYP TYPICAL HORIZ HORIZONTAL UNO UNLESS NOTED OTHERWISE IN SITE INSIDE DIAMETER USGS US GEOLOGICAL SURVEY WID INDOT INDIANA DEPARTMENT OF TRANSPORTATION W WIDTH, WEST INSTR INSTRUMENT WSE WATER SURFACE ELEVATION										
EA EACH SCHED SCHEDULE EJ EAST BANKRON WORKS SDR STANDARD DIMENSION RATIO EL EVALION SECT SECTION EX EXISTING SF SQUARE FEET EXP EXPANSION SHT SHEET FINISH FLOOR ELEVATION SPECS SPECIFICATION(S) M FORCE MAIN SQ SQUARE FND FOUND SRF STATE REVOLVING FUND FT FEET ST STREET FTG FOOTING STA STATION GALV GALVANIZED SYD SQUARE YARD GPS GLOBAL POSITIONING SYSTEM TBM TEMPORARY BENCHMARK HMA HOT MIX ASPHALT TC TOP OF CASTING HOPE HIGH DENSITY POLYETHYLENE TYP TYPICAL HORIZ HORIZONTAL UNO UNLESS NOTED OTHERWISE ID INSIDE DIAMETER USGS US GEOLOGICAL SURVEY IE INVERT ELEVATION VERT VERTICAL INCO INCORPORATED VLV WALVE INDOT INSTRUMENT WSE WATER SURFACE ELEVATION										
EJ EATT STANKON WORKS SDR STANDARD DIMENSION RATIO EL BEYLON SECT SECTION EX BASTING SF SQUARE FEET EXP EXPANSION SHT SHEET FINISH FLOOR ELEVATION SPECS SPECIFICATION(S) M FORCE MAIN SQ SQUARE FND FOUND SRF STATE REVOLVING FUND FT FEET ST STREET FTG FOOTING STA STATION GALV GALVANIZED SYD SQUARE YARD GPS GLOBAL POSITIONING SYSTEM TBM TEMPORARY BENCHMARK HMA HOT MIX ASPHALT TC TOP OF CASTING HDPE HIGH DENSITY POLYETHYLENE TYP TYPICAL HORIZ HORIZONTAL UNO UNLESS NOTED OTHERWISE ID INSIDE DIAMETER USGS US GEOLOGICAL SURVEY IE INVERT ELEVATION VERT VERTICAL INDOT INDIANA DEPARTMENT OF TRANSPORTATION W WIDTH, WEST INSTR INSTRUMENT WSE WATER SURFACE ELEVATION										
EL BENJON SECT SECTION EX BASTING EX BASTING SF SQUARE FEET SYPECS SPECIFICATION(S) M FORCE MAIN FOND FOUND FOUND FEET ST STATE REVOLVING FUND FT FEET ST STREET FTG FOOTING SALV GALVANIZED GPS GLOBAL POSITIONING SYSTEM HMA HOT MIX ASPHALT HOPE HIGH DENSITY POLYETHYLENE TYP TYPICAL HORIZ HORIZ HORIZ TO INSIDE DIAMETER UNO UNLESS NOTED OTHERWISE INC INCORPORATED W WATER SURFACE ELEVATION WES WATER SURFACE ELEVATION WASPHALT WES WATER SURFACE ELEVATION										
EX BASTING SF SQUARE FEET EXP EXPANSION SHT SHEET FINISH FLOOR ELEVATION SPECS SPECIFICATION(S) M FORCE MAIN SQ SQUARE FND FOUND SRF STATE REVOLVING FUND FT FEET ST STREET FTG FOOTING STA STATION GALV GALVANIZED SYD SQUARE YARD GPS GLOBAL POSITIONING SYSTEM TBM TEMPORARY BENCHMARK HMA HOT MIX ASPHALT TC TOP OF CASTING HOPE HIGH DENSITY POLYETHYLENE TYP TYPICAL HORIZ HORIZONTAL UNO UNLESS NOTED OTHERWISE ID INSIDE DIAMETER USGS US GEOLOGICAL SURVEY WE INVERT ELEVATION VERT VERTICAL INC INCORPORATED VLV VALVE INDOT INDIANA DEPARTMENT OF TRANSPORTATION WSE WATER SURFACE ELEVATION										
EXP EXPANSION SHT SHEET FINISH FLOOR ELEVATION SPECS SPECIFICATION(S) M FORCE MAIN SQ SQUARE FND FOUND SRF STATE REVOLVING FUND FT FEET ST STREET FTG FOOTING STA STATION GALV GALVANIZED SYD SQUARE YARD GPS GLOBAL POSITIONING SYSTEM TBM TEMPORARY BENCHMARK HMA HOT MIX ASPHALT TC TOP OF CASTING HDPE HIGH DENSITY POLYETHYLENE TYP TYPICAL HORIZ HORIZONTAL UNO UNLESS NOTED OTHERWISE ID INSIDE DIAMETER USGS US GEOLOGICAL SURVEY HE INVERT ELEVATION VERT VERTICAL INC INCORPORATED VLV WIDTH, WEST INSTR INSTRUMENT WSE WATER SURFACE ELEVATION										
FINISH FLOOR ELEVATION SPECS SPECIFICATION(S) FORCE MAIN SQ SQUARE FND FOUND SRF STATE REVOLVING FUND FT FEET ST STREET FTG FOOTING STA STATION GALV GALVANIZED SYD SQUARE YARD GPS GLOBAL POSITIONING SYSTEM TBM TEMPORARY BENCHMARK HMA HOT MIX ASPHALT TC TOP OF CASTING HDPE HIGH DENSITY POLYETHYLENE TYP TYPICAL HORIZ HORIZONTAL UNO UNLESS NOTED OTHERWISE ID INSIDE DIAMETER USGS US GEOLOGICAL SURVEY IE INVERT ELEVATION VERT VERTICAL INC INCORPORATED VLV WALVE INDOT INSTRUMENT WSE WATER SURFACE ELEVATION										
FORCE MAIN FORCE MAIN SQ SQUARE FND FOUND SRF STATE REVOLVING FUND ST ST STREET FTG FOOTING STA STATION GALV GALVANIZED SYD SQUARE YARD GPS GLOBAL POSITIONING SYSTEM TBM TEMPORARY BENCHMARK HOT MIX ASPHALT TC TOP OF CASTING HOPE HIGH DENSITY POLYETHYLENE HORIZ HORIZ HORIZONTAL UNO UNLESS NOTED OTHERWISE ID INSIDE DIAMETER USGS US GEOLOGICAL SURVEY VERT VERTICAL INC INCORPORATED VLV WIDTH, WEST INSTR INSTR UNSTR WATER SURFACE ELEVATION										
FND FOUND SRF STATE REVOLVING FUND FT FEET ST STREET FTG FOOTING STA STATION GALV GALVANIZED SYD SQUARE YARD GPS GLOBAL POSITIONING SYSTEM TBM TEMPORARY BENCHMARK HMA HOT MIX ASPHALT TC TOP OF CASTING HDPE HIGH DENSITY POLYETHYLENE TYP TYPICAL HORIZ HORIZONTAL UNO UNLESS NOTED OTHERWISE ID INSIDE DIAMETER USGS US GEOLOGICAL SURVEY IE INVERT ELEVATION VERT VERTICAL INC INCORPORATED VLV VALVE INDOT INDIANA DEPARTMENT OF TRANSPORTATION WSE WATER SURFACE ELEVATION				()						
FT FEET ST STREET FTG FOOTING STA STATION GALV GALVANIZED SYD SQUARE YARD GPS GLOBAL POSITIONING SYSTEM TBM TEMPORARY BENCHMARK HMA HOT MIX ASPHALT TC TOP OF CASTING HDPE HIGH DENSITY POLYETHYLENE TYP TYPICAL HORIZ HORIZONTAL UNO UNLESS NOTED OTHERWISE ID INSIDE DIAMETER USGS US GEOLOGICAL SURVEY IE INVERT ELEVATION VERT VERTICAL INC INCORPORATED VLV VALVE INDIDATA DEPARTMENT OF TRANSPORTATION WSE WATER SURFACE ELEVATION	FUD		·							
FTG FOOTING STA STATION GALV GALVANIZED SYD SQUARE YARD GPS GLOBAL POSITIONING SYSTEM TBM TEMPORARY BENCHMARK HMA HOT MIX ASPHALT TC TOP OF CASTING HDPE HIGH DENSITY POLYETHYLENE TYP TYPICAL HORIZ HORIZONTAL UNO UNLESS NOTED OTHERWISE ID INSIDE DIAMETER USGS US GEOLOGICAL SURVEY IE INVERT ELEVATION VERT VERTICAL INC INCORPORATED VLV VALVE INDIANA DEPARTMENT OF TRANSPORTATION INSTR INSTRUMENT WSE WATER SURFACE ELEVATION										
GALV GALVANIZED SYD SQUARE YARD GPS GLOBAL POSITIONING SYSTEM TBM TEMPORARY BENCHMARK HMA HOT MIX ASPHALT TC TOP OF CASTING HDPE HIGH DENSITY POLYETHYLENE TYP TYPICAL HORIZ HORIZONTAL UNO UNLESS NOTED OTHERWISE ID INSIDE DIAMETER USGS US GEOLOGICAL SURVEY IE INVERT ELEVATION VERT VERTICAL INC INCORPORATED VLV VALVE INDOT INDIANA DEPARTMENT OF TRANSPORTATION WSE WATER SURFACE ELEVATION										
GPS GLOBAL POSITIONING SYSTEM TBM TEMPORARY BENCHMARK HMA HOT MIX ASPHALT TC TOP OF CASTING HDPE HIGH DENSITY POLYETHYLENE TYP TYPICAL HORIZ HORIZONTAL UNO UNLESS NOTED OTHERWISE ID INSIDE DIAMETER USGS US GEOLOGICAL SURVEY IE INVERT ELEVATION VERT VERTICAL INC INCORPORATED VLV VALVE INDOT INDIANA DEPARTMENT OF TRANSPORTATION W WIDTH, WEST INSTR INSTRUMENT WSE WATER SURFACE ELEVATION				-						
HMA HOT MIX ASPHALT TC TOP OF CASTING HDPE HIGH DENSITY POLYETHYLENE TYP TYPICAL HORIZ HORIZONTAL UNO UNLESS NOTED OTHERWISE ID INSIDE DIAMETER USGS US GEOLOGICAL SURVEY IE INVERT ELEVATION VERT VERTICAL INC INCORPORATED VLV VALVE INDOT INDIANA DEPARTMENT OF TRANSPORTATION W WIDTH, WEST INSTR INSTRUMENT WSE WATER SURFACE ELEVATION				·						
HDPE HIGH DENSITY POLYETHYLENE TYP TYPICAL HORIZ HORIZONTAL UNO UNLESS NOTED OTHERWISE ID INSIDE DIAMETER USGS US GEOLOGICAL SURVEY IE INVERT ELEVATION VERT VERTICAL INC INCORPORATED VLV VALVE INDOT INDIANA DEPARTMENT OF TRANSPORTATION W WIDTH, WEST INSTR INSTRUMENT WSE WATER SURFACE ELEVATION										
HORIZ HORIZONTAL UNO UNLESS NOTED OTHERWISE USGS US GEOLOGICAL SURVEY USGS USGS US GEOLOGICAL SURVEY USGS USGS US GEOLOGICAL SURVEY USGS USGS USGS USGS USGS USGS USGS USG										
ID INSIDE DIAMETER USGS US GEOLOGICAL SURVEY IE INVERT ELEVATION VERT VERTICAL INC INCORPORATED VLV VALVE INDIANA DEPARTMENT OF TRANSPORTATION W WIDTH, WEST INSTR INSTRUMENT WSE WATER SURFACE ELEVATION										
IE INVERT ELEVATION VERT VERTICAL INC INCORPORATED VLV VALVE INDIANA DEPARTMENT OF TRANSPORTATION W WIDTH, WEST INSTR INSTRUMENT WSE WATER SURFACE ELEVATION										
INC INCORPORATED VLV VALVE INDOT INDIANA DEPARTMENT OF TRANSPORTATION W WIDTH, WEST INSTR INSTRUMENT WSE WATER SURFACE ELEVATION										
INDIANA DEPARTMENT OF TRANSPORTATION INSTR INSTRUMENT W WIDTH, WEST WATER SURFACE ELEVATION										
INSTR INSTRUMENT WSE WATER SURFACE ELEVATION		INDIANA DEPARTMENT OF								
				·						
	INV	INVERT	YR	YEAR						

*NOTE: THIS TABLE IS A LISTING OF TYPICAL ABBREVIATIONS AND MAY NOT INCLUDE ALL ABBREVIATIONS FOUND WITHIN THIS PLAN SET. IF A QUESTION ARISES ON THE MEANING OF AN ABBREVIATION NOT LISTED IN THIS TABLE, PLEASE CONTACT THE ENGINEER FOR CLARIFICATION.

GENERAL NOTES:

1. NOTIFY THE ENGINEER IF ANY CONFLICTING INFORMATION BECOMES APPARENT IN THE CONTRACT DOCUMENTS AS SOON AS POSSIBLE AND PRIOR TO THE COMMENCEMENT OF ANY WORK IN THE VICINITY OF

OR RELATIVE TO THE APPARENT CONFLICT SO THAT CLARIFICATION MAY OCCUR PRIOR TO CONSTRUCTION. 2. ANY ALTERATIONS TO THESE DRAWINGS NOT AUTHORIZED BY WESSLER ENGINEERING AND NOT IN ACCORDANCE WITH THE DRAWINGS, SPECIFICATIONS AND RECORDS ON FILE AT WESSLER ENGINEERING SHALL RELIEVE WESSLER ENGINEERING OF ANY RESPONSIBILITY FOR THE ACCURACY OF THE DRAWINGS.

3. USE CAUTION DURING THE EXECUTION OF WORK TO PREVENT DAMAGE TO STATE, COUNTY, MUNICIPAL, AND PRIVATE PROPERTY. REPAIR ALL DAMAGES AS A RESULT OF OPERATIONS, INCLUDING DAMAGE TO DRAINAGE STRUCTURES, FIELD TILES, PUBLIC/PRIVATE ROADS, AND LANDSCAPING (INCLUDING FENCING). REPAIR AND REPLACE DAMAGED ITEMS AT NO ADDITIONAL COST TO THE OWNER. PERFORM ALL REPAIR AND REPLACEMENT WORK TO THE SATISFACTION OF THE PERMITTING AGENCY, THE OWNER AND THE ENGINEER.

4. TAKE CARE TO AVOID DAMAGE TO PAVED AREAS WHICH ARE NOT SPECIFICALLY CALLED OUT FOR REPAIR OR REPLACEMENT. REPAIR, OR REPLACE ALL SUCH PAVEMENTS WHICH ARE DAMAGED BY CONSTRUCTION ACTIVITIES AND CONSTRUCTION TRAFFIC AT NO ADDITIONAL COST TO THE OWNER

ACTIVITIES AND CONSTRUCTION TRAFFIC AT NO ADDITIONAL COST TO THE OWNER.
OBTAIN ALL TEMPORARY EASEMENTS REQUIRED FOR THE CONSTRUCTION OF THE PLAFECT AT NO ADDITIONAL COST TO THE OWNER.
COMPLY WITH ALL APPLICABLE PERMITS AND REGULATIONS. APPLICABLE PERMITS ISSUED TO THE OWNER WILL BE MADE AVAILABLE TO THE CONTRACTOR. CONTACT ALL APPLICABLE PERMITTING AGENCIES WITHIN THE TIME PERIOD SPECIFIED BY THAT AGENCY PRIOR TO BEGIN YOUR OF RUCTION.
ALL EXISTING AND NEW UTILITY INFORMATION, INCLUDING AS NOT LIGHTED TO LOCATION, SIZE AND INVERT ELEVATION, IS SHOWN BASED UPON AVAILABLE INFORMATION. THE ENGINEER DOES NOT GUARANTEE OR ASSUME SUCH INFORMATION TO BE TRUE, ACCURATE ALL AS JUSIVE OR EVEN APPROXIMATE. CONTACT THE INDIANA UNDERGROUND PLANT PROTECTION STRVING UPPS) AT LEAST FORTY-EIGHT (48) HOURS IN ADVANCE OF ANY CONSTRUCTION ACTIVITY OCCUPANT NON-MEMBER UTILITIES DIRECTLY.
DETERMINE WHICH UTILITIES MAY CONFIDE WITH WORK AND VERIFY THEIR LOCATION, SIZE AND ELEVATION PRIOR TO CONSTRUCTION AND DETERMINE IF THERE ARE ANY DISCREPANCIES OR CONFLICTS. IF ANY

 DETERMINE WHICH UTILITIES MAY CONNOT WITH WORK AND VERIFY THEIR LOCATION, SIZE AND ELEVATION PRIOR TO CONSTRUCTION AND DETERMINE IF THERE ARE ANY DISCREPANCIES OR CONFLICTS. IF ANY DISCREPANCIES OR CONFLICT AN DISCOVERED, NOTIFY THE ENGINEER AS SOON AS POSSIBLE.
 EXISTING UTILITY SERVICE AND SIZE INDIVIDUAL CUSTOMERS MAY NOT BE SHOWN ON THE DRAWINGS. ASSUME THAT UNDERGROUD SERVICE LINES FOR ALL UTILITIES EXIST TO EACH PROPERTY ALONG THE ROUTE OF THE PLANNED IMPROVEMENTS.
 COORDINATE 1.1 YOR SWITH THE RESPECTIVE UTILITIES. SCHEDULE WORK ACCORDINGLY, AND NOTIFY ALL UTILITIES. WIN MULL OF TWO (2) WEEKS IN ADVANCE OF ANY CONSTRUCTION ACTIVITY.
 COORDINATE 1.2 YOR SWITH THE RESPECTIVE UTILITIES AND THE UTILITIES. SERVICE INTERRUPTIONS WITH THE RESPECTIVE UTILITIES AND THE UTILITIES. SERVICE INTERRUPTIONS SHOULD NOT LAST MORE THAN FOUR (4) HAVE GIVE WRITTEN NOTICE TO ALL AFFECTED UTILITY CUSTOMERS AND PROPERTY OWNERS AT LEAST TWENTY-FOUR (24) HOURS BUT NOT MORE THAN SEVENTY-TWO (72) HOURS PRIOR TO ANY PLANNED. 11Y-FOUR (24) HOURS BUT NOT MORE THAN SEVENTY-TWO (72) HOURS PRIOR TO ANY PLANNED TERRUPTION OF UTILITY SERVICE.

USE CAUTION DURING THE EXECUTION OF WORK TO PREVENT DAMAGE TO EXISTING UTILITIES. REPAIR OR REPLACE ALL PUBLIC AND PRIVATE FACILITIES DAMAGED AS A RESULT OF CONSTRUCTION OPERATIONS. 13. BRACE AND PROTECT ALL UTILITY POLES AND EXISTING STRUCTURES ADJACENT TO NEW EXCAVATIONS.

UTILITY POLE BRACING SHALL BE AS DIRECTED BY THE GOVERNING UTILITY. 14. MAINTAIN EXISTING STORMWATER DRAINAGE FOR THE ENTIRE DURATION OF THE PROJECT.

15. DO NOT DISTURB EXISTING MANHOLES OR INLETS, UNLESS NOTED OTHERWISE.

16. ALL EQUIPMENT, APPURTENANCES AND PIPING REMOVED AS PART OF THE DEMOLITION SHALL FIRST BE OFFERED TO THE OWNER FOR SALVAGE. DELIVER SALVAGED ITEMS SELECTED BY OWNER TO A LOCATION DESIGNATED BY THE OWNER OR ENGINEER. IN THE EVENT THE OWNER DOES NOT ELECT TO KEEP THE REMOVED ITEMS, REMOVE SUCH ITEMS FROM THE SITE AND DISPOSE OF AT A LOCATION APPROVED FOR SUCH DISPOSAL AT THE CONTRACTOR'S EXPENSE.

17. COORDINATE STAGING AREA LOCATIONS WITH THE OWNER.

18. ALL CONSTRUCTION TRAFFIC SHALL USE MAJOR ROADS. NO CONSTRUCTION TRAFFIC SHALL USE LOCAL STREETS FOR INDIRECT ACCESS.

19. TO CONTROL DUST, REMOVE SOIL FROM STREETS USED BY CONSTRUCTION TRAFFIC DAILY, VACUUM AND

WATER AS NECESSARY AND/OR AS DIRECTED BY THE OWNER. 20. LENGTHS OF SEWERS AS SHOWN ON THE DRAWINGS AND INDICATED AS LINEAR FEET (LF) ARE FROM CENTER

TO CENTER OF STRUCTURES. 21. NORTHING AND EASTING INFORMATION IS GIVEN AT CENTER OF STRUCTURE UNLESS OTHERWISE NOTED. 22. PLACE NO. 8 CRUSHED AGGREGATE BETWEEN PIPES AT ALL PIPE CROSSINGS TO PREVENT PIPE SETTLEMENT

UNLESS SHOWN OTHERWISE. 23. VERIFY EXISTING SEWER INVERTS AND LOCATIONS PRIOR TO CONSTRUCTION AND DETERMINE IF THERE ARE

ANY DISCREPANCIES OR CONFLICTS. 24. ADJUST SEWER LATERALS AS NECESSARY TO AVOID CONFLICTS. LATERALS THAT REQUIRE FIELD

ADJUSTMENT SHALL BE LAID AT THE MINIMUM SLOPE AS SPECIFIED IN THE DRAWINGS AND SPECIFICATIONS.

25. RESET ALL MAILBOXES AND SIGNS DISTURBED BY CONSTRUCTION ACTIVITIES.

26. IF REQUIRED, PLACE TEMPORARY OVERNIGHT AGGREGATE WEDGES AT DRIVEWAYS TO ALLOW PROPERTY OWNER ACCESS.

UTILITY CONTACTS

CITY OF MARTINSVILLE 390 S MULBERRY ST MARTINSVILLE, IN 46151 (765) 342-2449

GAS CENTERPOINT ENERGY 4324 MIDDLE RD COLUMBUS, IN 47203 812-348-6703 ATTN: TIMMY LANGSTON

WASTEWATER TREATMENT PLANT 995 ROGERS ROAD MARTINSVILLE, IN 46151 765-342-2342 ATTN: PHIL McLARY

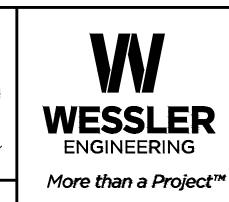
TELEPHONE AT&T 4517 E INDIANA BELL CT **BLOOMINGTON, IN 47408** 812-334-4629 ATTN: JEREMY MOORE JX212V@ATT.COM

ELECTRIC DUKE ENERGY 812-375-2004 ATTN: TUCKER SETTLE DEI-DLINE-COORD@DUKE-ENERGY.COM

BAR IS ONE INCH LONG ON

ORIGINAL DRAWING

TWL DATE INITIALS **REVISION DESCRIPTIONS** SCALE VERIFICATION DRAWN BY LHR **CHECKED BY** RWH APPROVED BY ISSUE DATE **JULY 2022** PROJECT NUMBER atri till I 245521-04-001



STATE OF STA

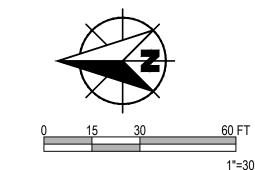
EAST SERVICE AREA WATER AND SEWER EXTENSIONS

CITY OF MARTINSVILLE, INDIANA

SHEET NO.

GENERAL SHEET





NOTES:

1. WATER MAIN PIPE MATERIAL IS TO BE SELECTED BY CONTRACTOR. HDPE PIPE SHALL BE 14" IF SELECTED

KEYED NOTES()

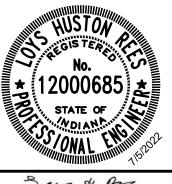
- D PAVEMENT REPAIR
- H_a CURB RAMP REPAIR
- X POTENTIAL UTILITY CONFLICT FIELD VERIFY PRIOR TO CONSTRUCTION.
- X₁ ROAD UNDER DRAIN OUTLET. CONTRACTOR TO FIELD VERIFY DEPTH AND LOCATION PRIOR TO CONSTRUCTION.

36" HDPE IE (W) 606.51 ____ 610 36" 11DPE IÈ (É) 606.41 615 W. L. W. W. HORIZONTAL DIRECTIONAL DRILL INSTALLATION METHOD _____
DETERMINED BY CONTRACTOR ARTESIAN AVE T/SEWER 609.8 - B/WATER 603.5 10.2 FT DEPTH H-3 HYDRANT ASSEMBLY 12"X12" MJ TEE 12" GATE VALVE 12" GATE VALVE AND BOX 12" MJ CAP SEE WATER MAIN - LINE A PROFILES SHEET NO. 08 CRUSHED STONE SURFACE REPAIR AND GRANULAR BACKFILL AS DICTATED BY WATER MAIN INSTALLATION METHOD

PLAN - LINE A

SCALE: 1" = 30'

SCALE VERIFICATION	DRAWN BY	TWL	NO.	DATE	INITIALS	REVISION DESCRIPTIONS	HIIIIIII
BAR IS ONE INCH LONG ON	CHECKED BY	TMG					
ORIGINAL DRAWING	APPROVED BY	LHR					107 * PROSESSION
	ISSU	JE DATE	<u> </u>				8
		Y 2022	_				
		1-04-001					30



WESSLER ENGINEERING More than a Project™

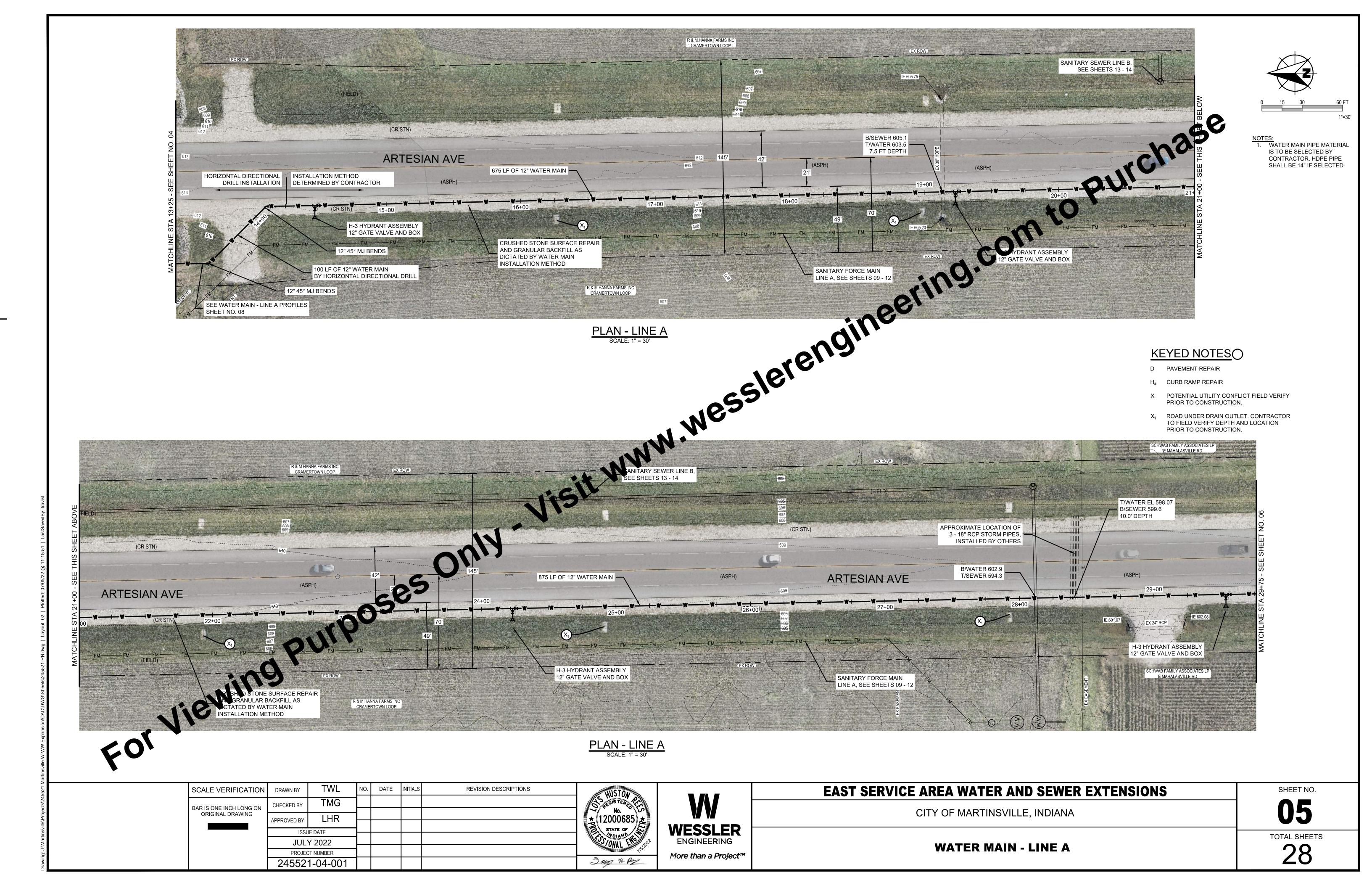
EAST SERVICE AREA WATER AND SEWER EXTENSIONS

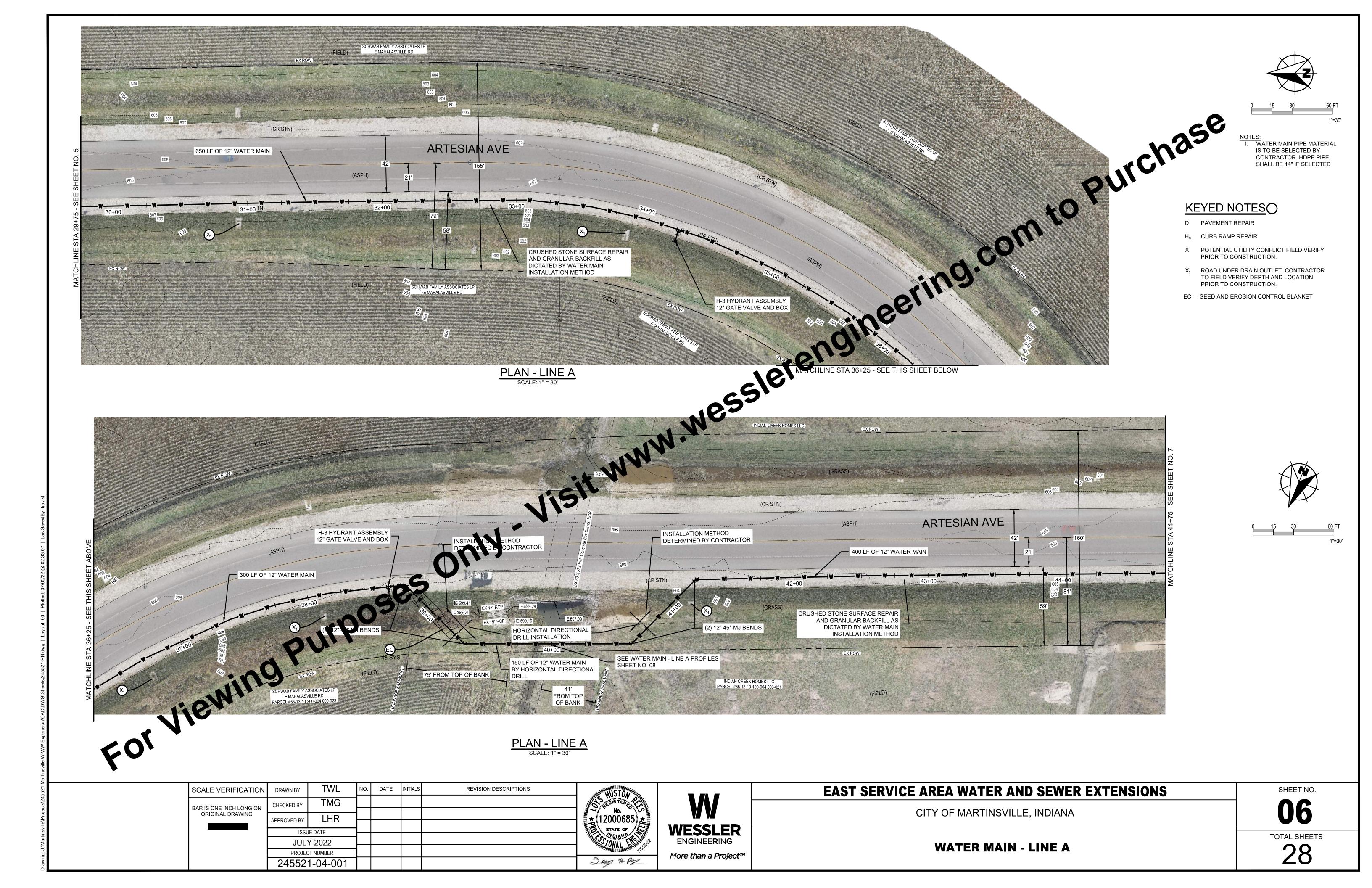
CITY OF MARTINSVILLE, INDIANA

WATER MAIN - LINE A

SHEET NO.

TOTAL SHEETS







NOTES:

1. WATER MAIN PIPE MATERIAL IS TO BE SELECTED BY CONTRACTOR. HDPE PIPE SHALL BE 14" IF SELECTED

KEYED NOTES

- POTENTIAL UTILITY CONFLICT FIELD VERIFY PRIOR TO CONSTRUCTION.
- ROAD UNDER DRAIN OUTLET. CONTRACTOR TO FIELD VERIFY DEPTH AND LOCATION PRIOR TO CONSTRUCTION.

DATE INITIALS REVISION DESCRIPTIONS SCALE VERIFICATION DRAWN BY CHECKED BY BAR IS ONE INCH LONG ON ORIGINAL DRAWING No. 12000685 ★ JULY 2022 PROJECT NUMBER

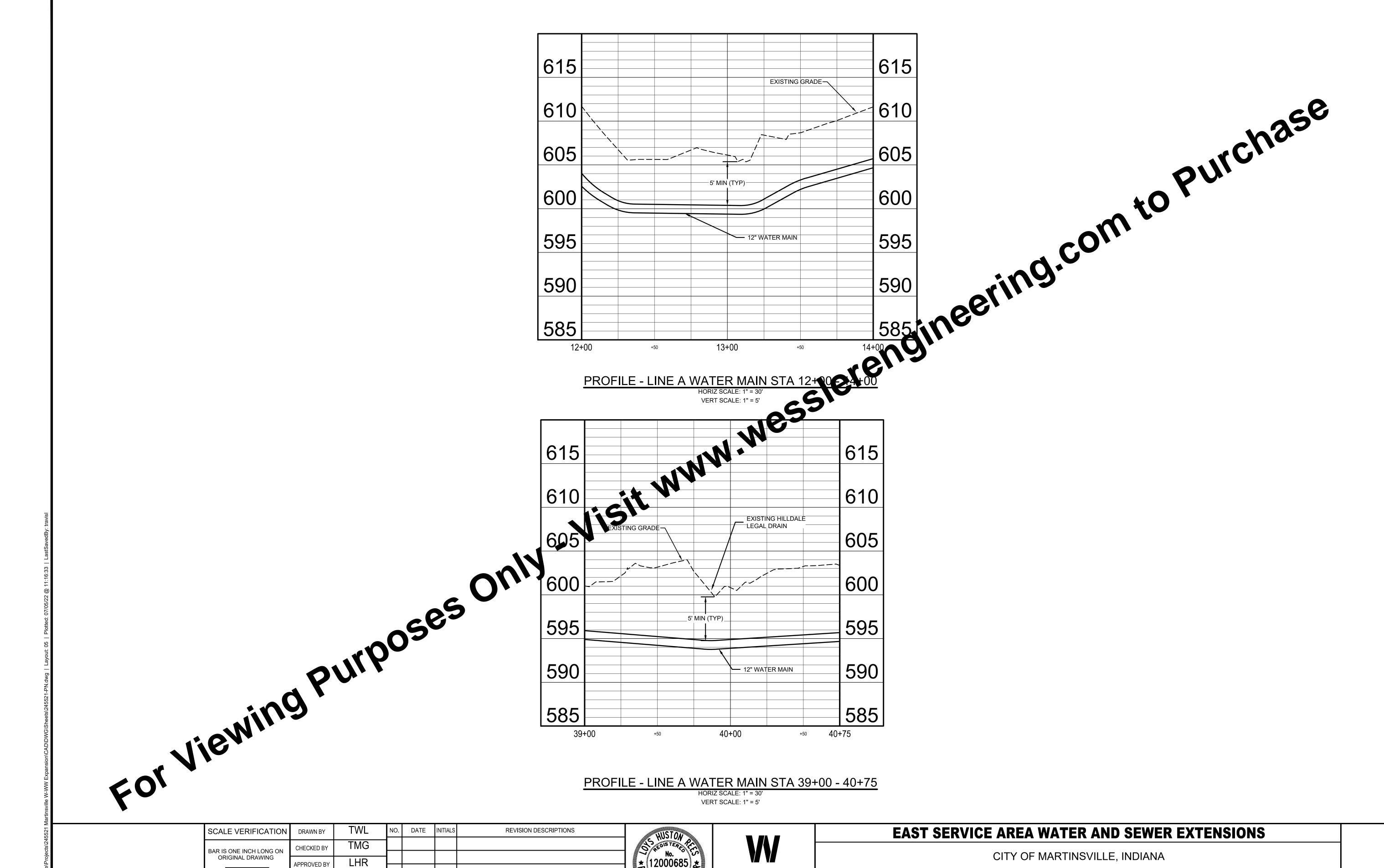
245521-04-001

WESSLER ENGINEERING More than a Project™ 3 am # Py

EAST SERVICE AREA WATER AND SEWER EXTENSIONS CITY OF MARTINSVILLE, INDIANA

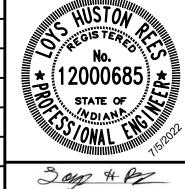
SHEET NO.

WATER MAIN - LINE A





DATE INITIALS TWL REVISION DESCRIPTIONS SCALE VERIFICATION DRAWN BY CHECKED BY BAR IS ONE INCH LONG ON ORIGINAL DRAWING APPROVED BY ISSUE DATE JULY 2022 PROJECT NUMBER 245521-04-001



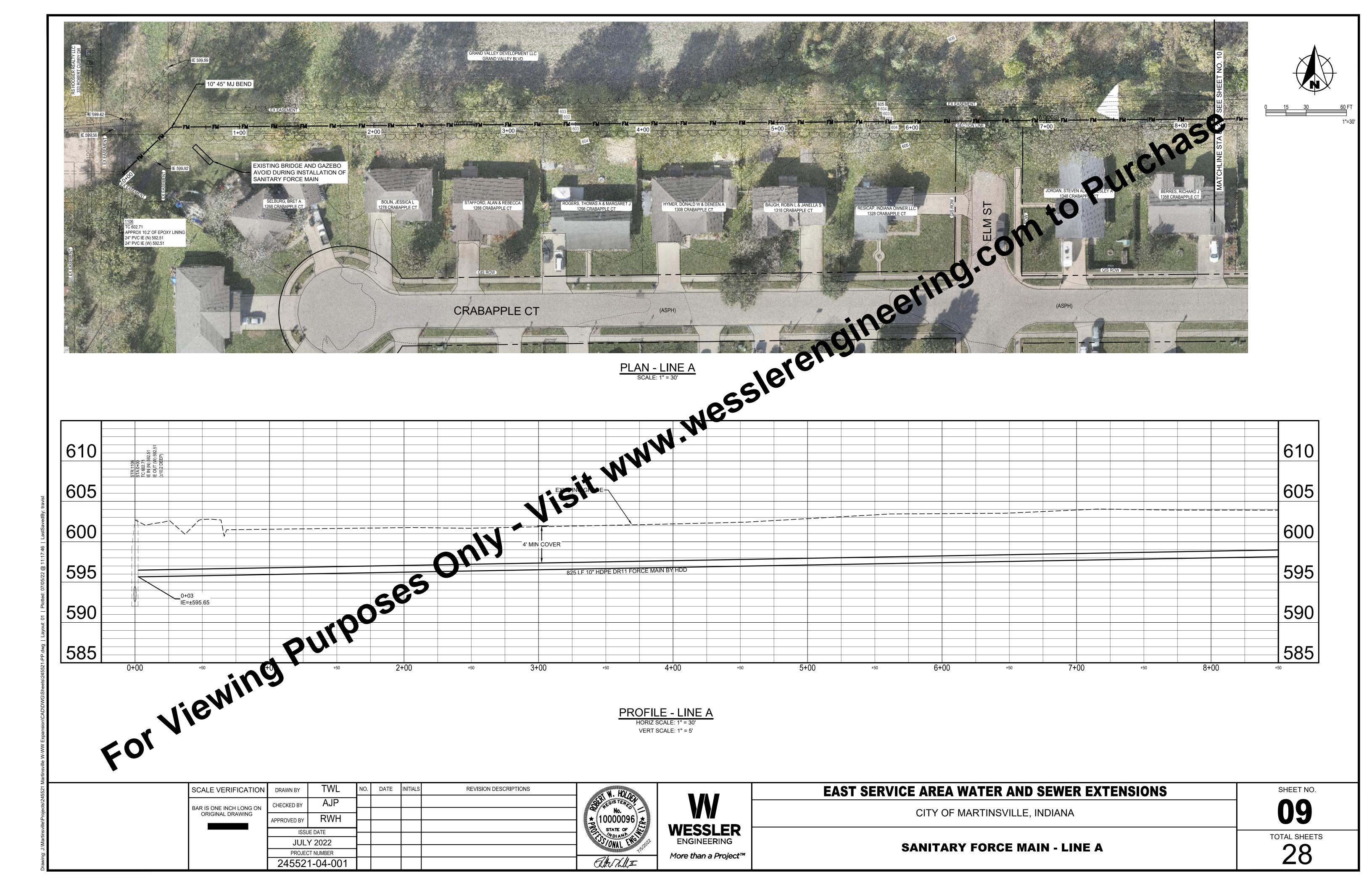
WESSLER ENGINEERING More than a Project™

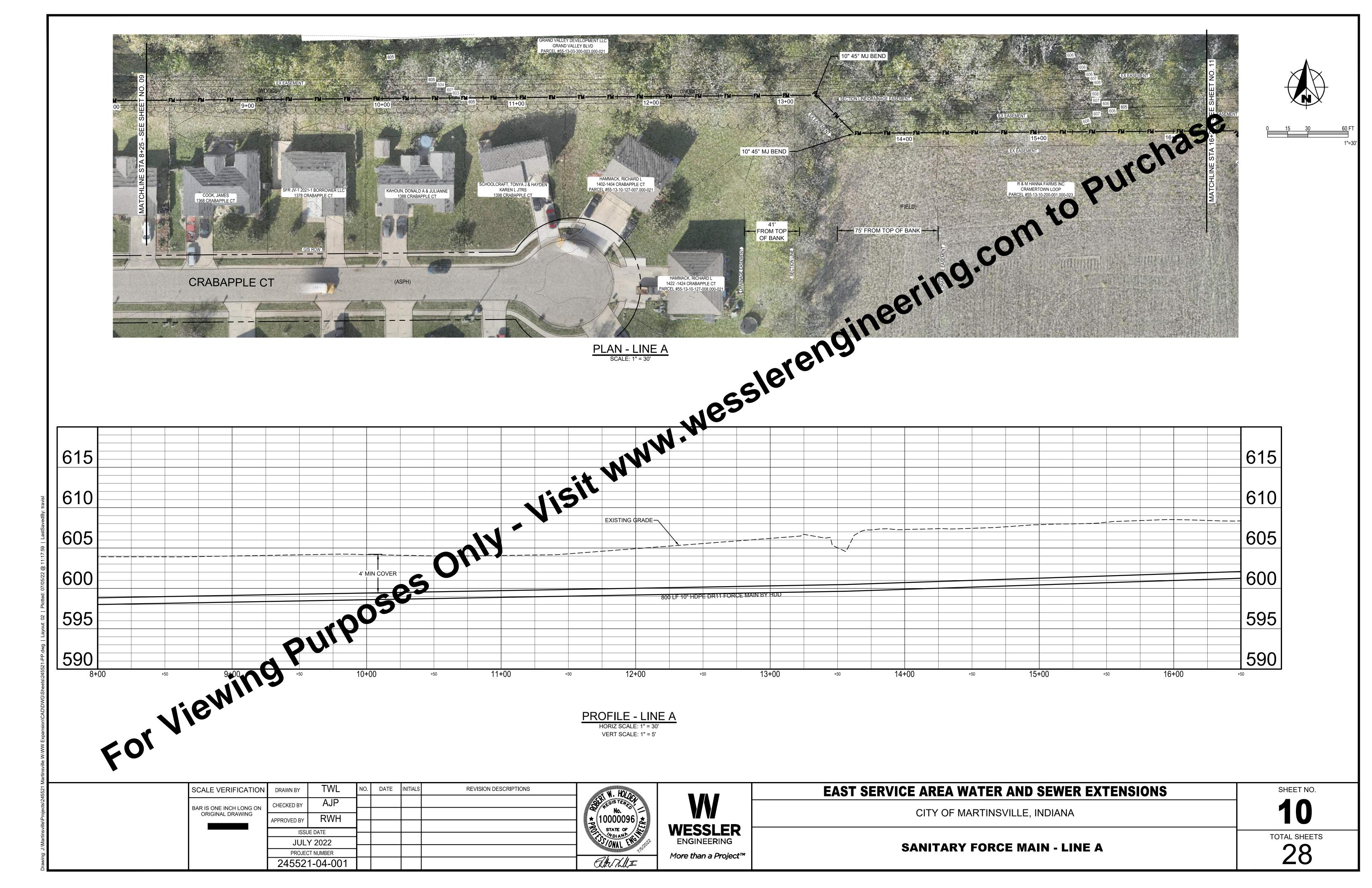
EAST SERVICE AREA WATER AND SEWER EXTENSIONS	

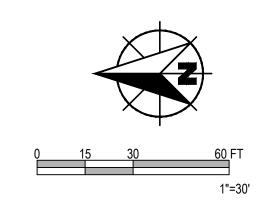
CITY OF MARTINSVILLE, INDIANA

WATER MAIN - LINE A PROFILES

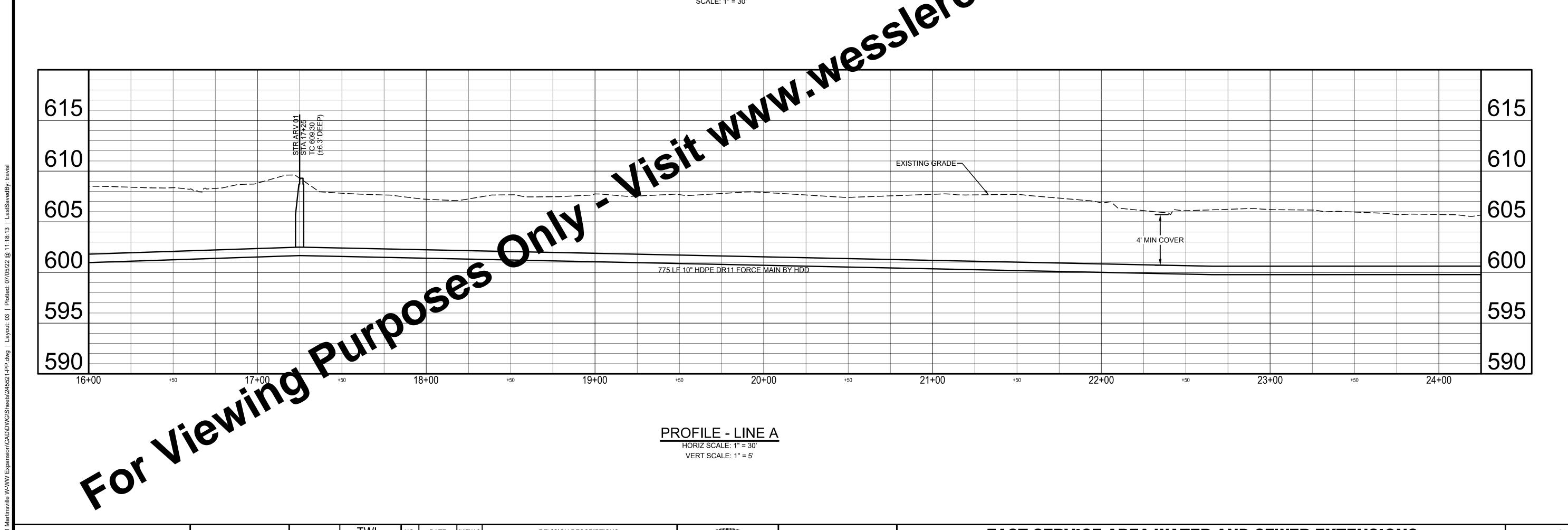
SHEET NO.











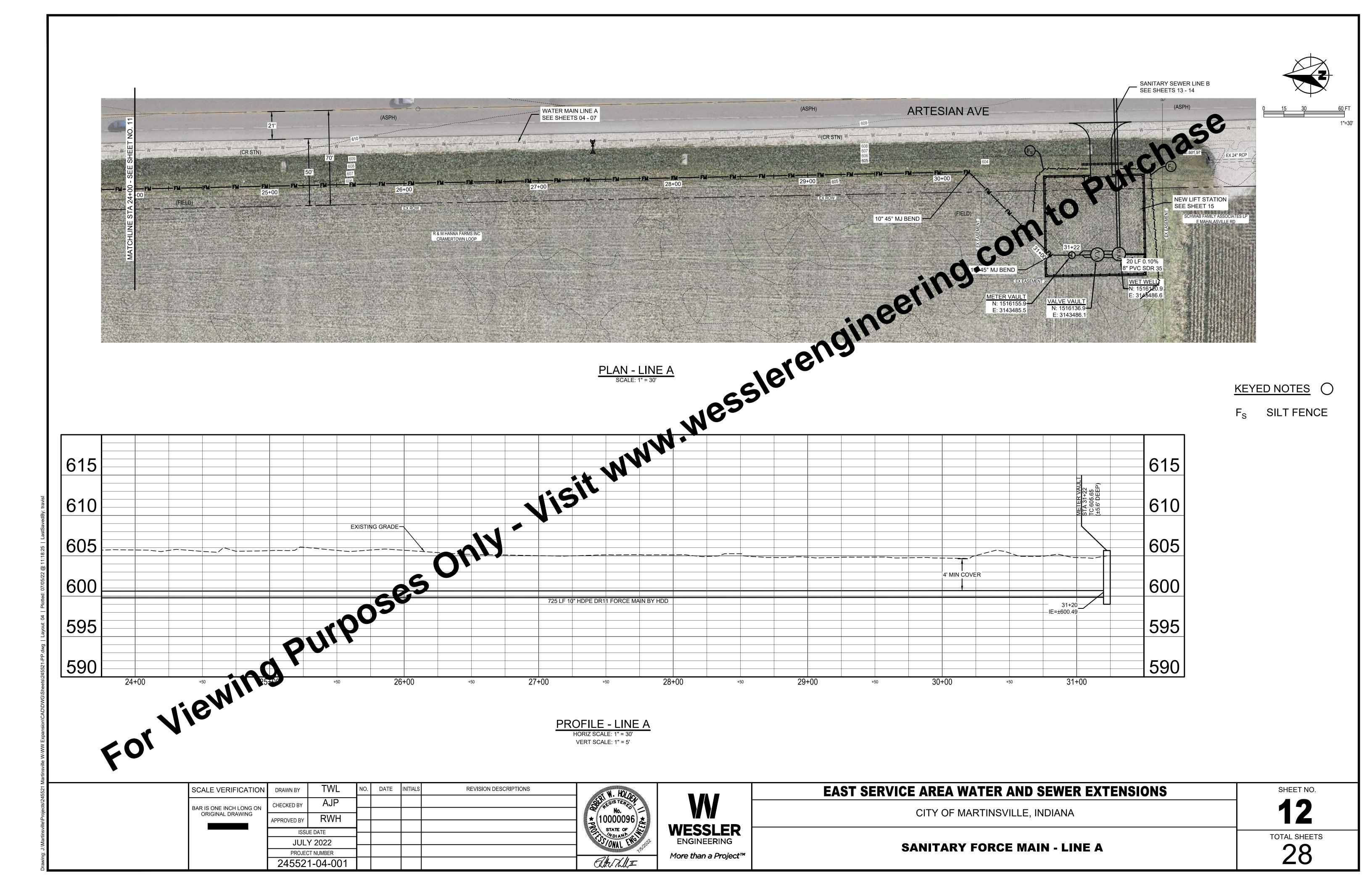
PROFILE - LINE A VERT SCALE: 1" = 5'

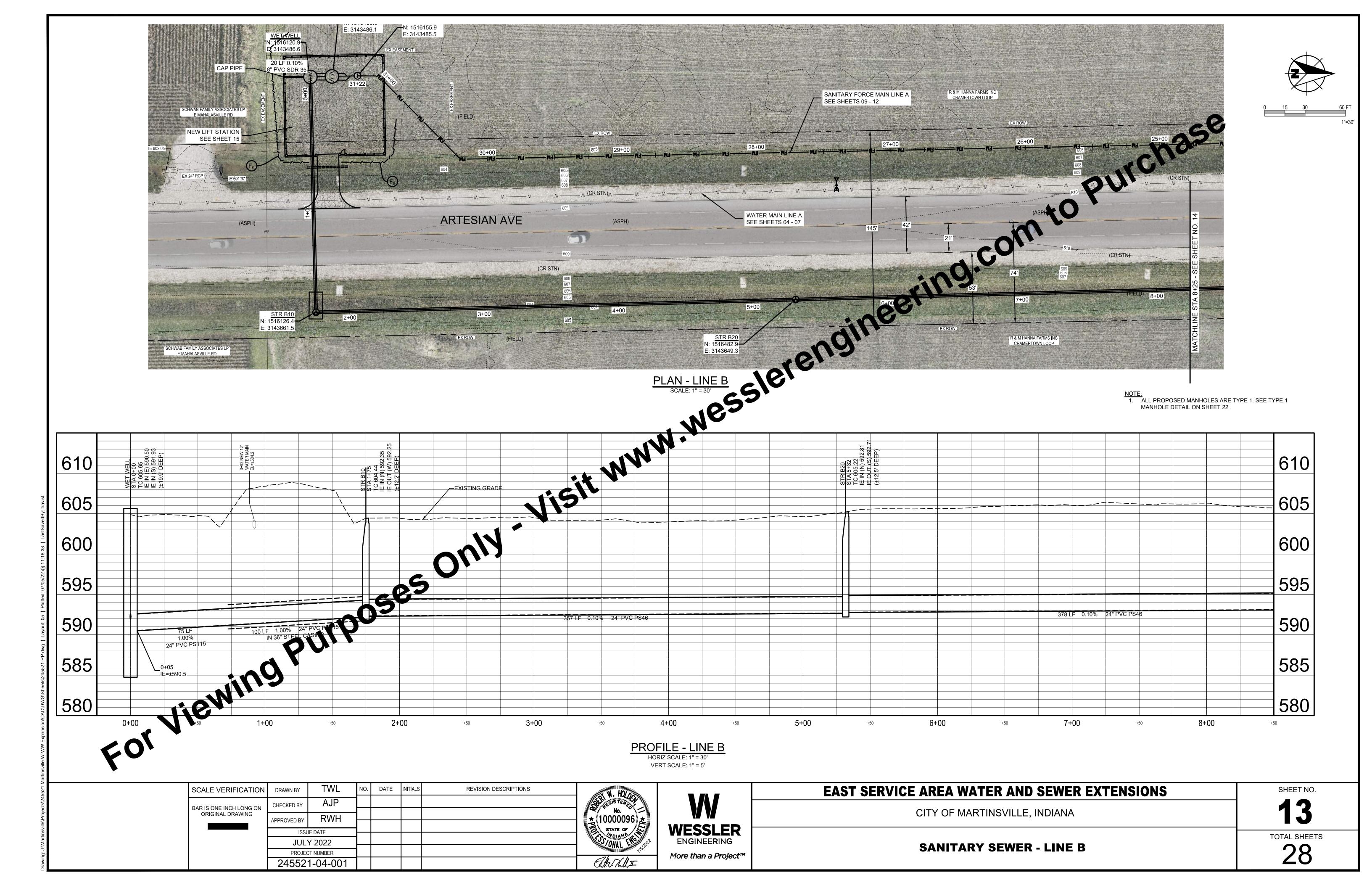
SCALE VERIFICATION	DRAWN BY	TWL	NO.	DATE	INITIALS	REVISION DESCRIPTIONS	illilli
BAR IS ONE INCH LONG ON	CHECKED BY	AJP					
ORIGINAL DRAWING	APPROVED BY	RWH	-				William * PROTEIN
	ISSL	JE DATE	<u> </u>				
	JUL'	Y 2022	<u> </u>				
	PROJEC	CT NUMBER					*****
	24552	1-04-001					a

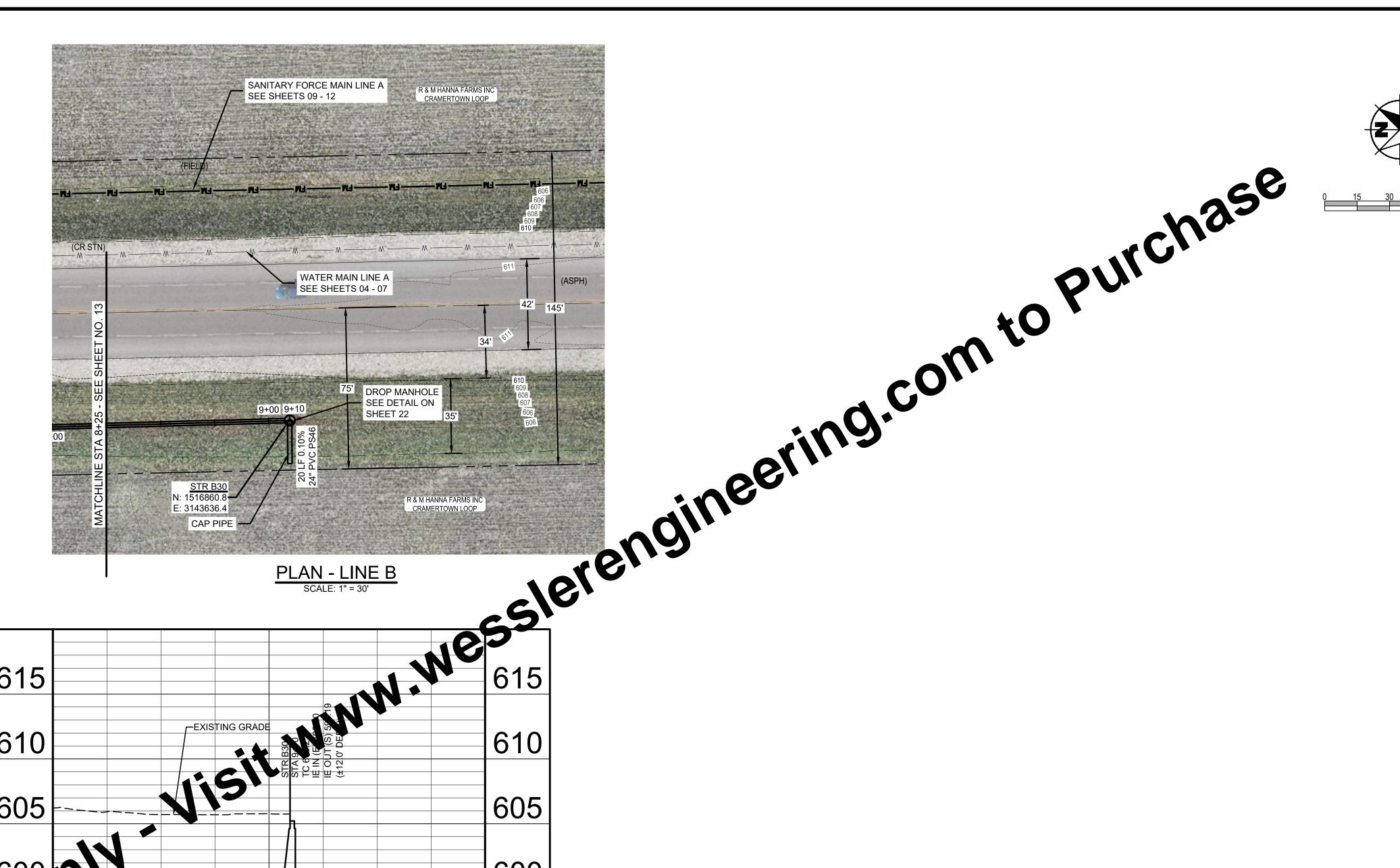
WESSLER ENGINEERING More than a Project™ EAST SERVICE AREA WATER AND SEWER EXTENSIONS CITY OF MARTINSVILLE, INDIANA

SANITARY FORCE MAIN - LINE A

SHEET NO.









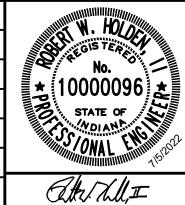
615 610 605 For Viewing Purpose 595 600 595 590 585 9+00

PROFILE - LINE B

HORIZ SCALE: 1" = 30'

VERT SCALE: 1" = 5'

DATE INITIALS TWL REVISION DESCRIPTIONS SCALE VERIFICATION DRAWN BY CHECKED BY BAR IS ONE INCH LONG ON ORIGINAL DRAWING RWH APPROVED BY ISSUE DATE JULY 2022 PROJECT NUMBER 245521-04-001

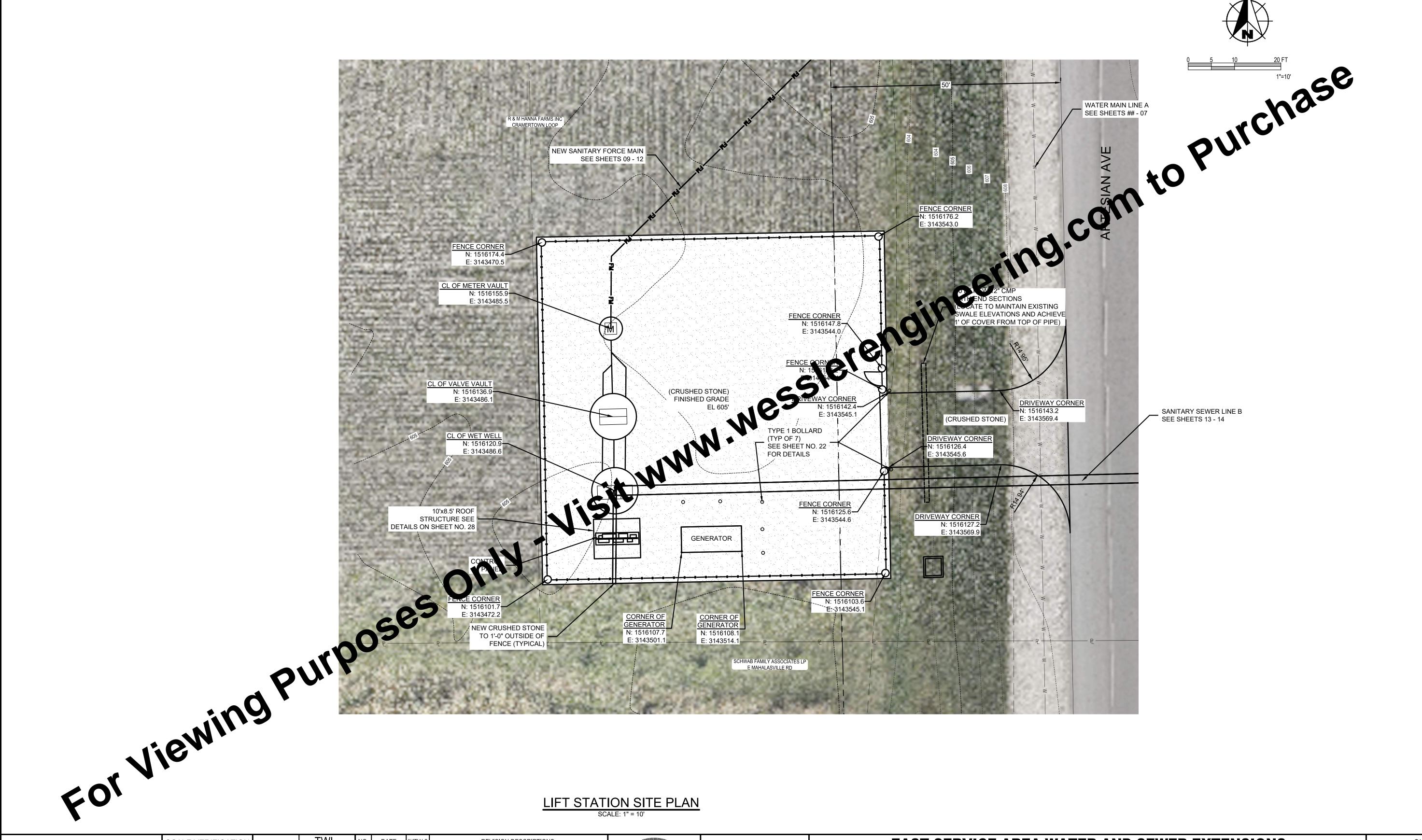


W **WESSLER ENGINEERING** More than a Project™ EAST SERVICE AREA WATER AND SEWER EXTENSIONS

CITY OF MARTINSVILLE, INDIANA

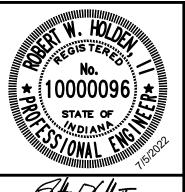
SANITARY SEWER - LINE B

SHEET NO.



LIFT STATION SITE PLAN

SCALE VERIFICATION	DRAWN BY	TWL	NO.	DATE	INITIALS	REVISION DESCRIPTIONS	IIIIIII
BAR IS ONE INCH LONG ON	CHECKED BY	AJP					8
ORIGINAL DRAWING	APPROVED BY	RWH	_				* 1
	ISSU	JE DATE	\vdash				* PROTEIN
		Y 2022 CT NUMBER	H				
		1-04-001					(a

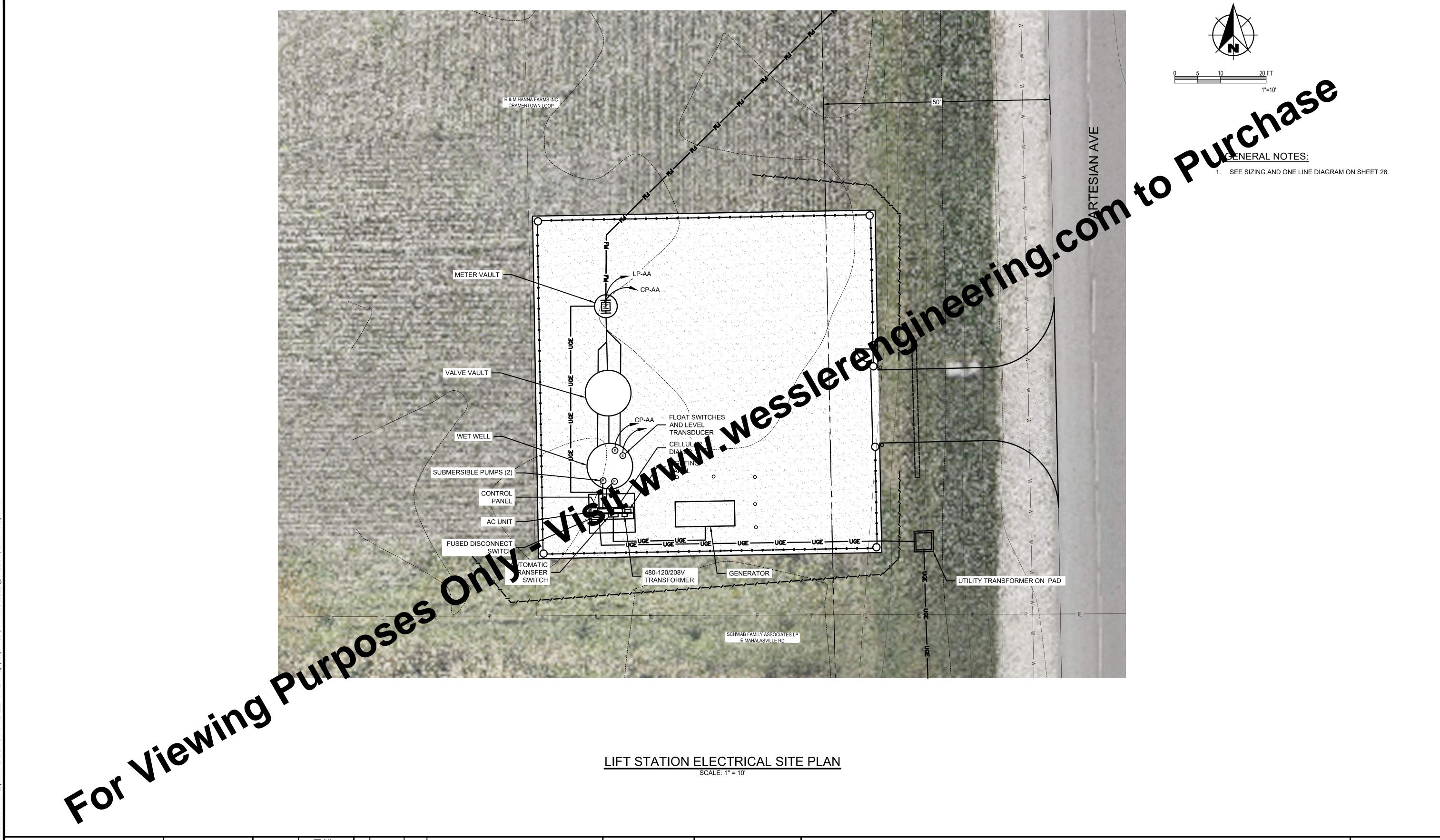




EAST SERVICE AREA WATER AND SEWER EXTENSIONS	
CITY OF MARTINSVILLE, INDIANA	
	└

NEW LIFT STATION SITE PLAN

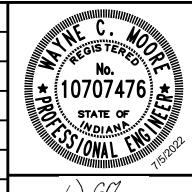
SHEET NO.



LIFT STATION ELECTRICAL SITE PLAN

SCALE VERIFICATION BAR IS ONE INCH LONG ON ORIGINAL DRAWING

DATE INITIALS REVISION DESCRIPTIONS DRAWN BY CHECKED BY WCM APPROVED BY **JULY 2022** PROJECT NUMBER 245521-04-001



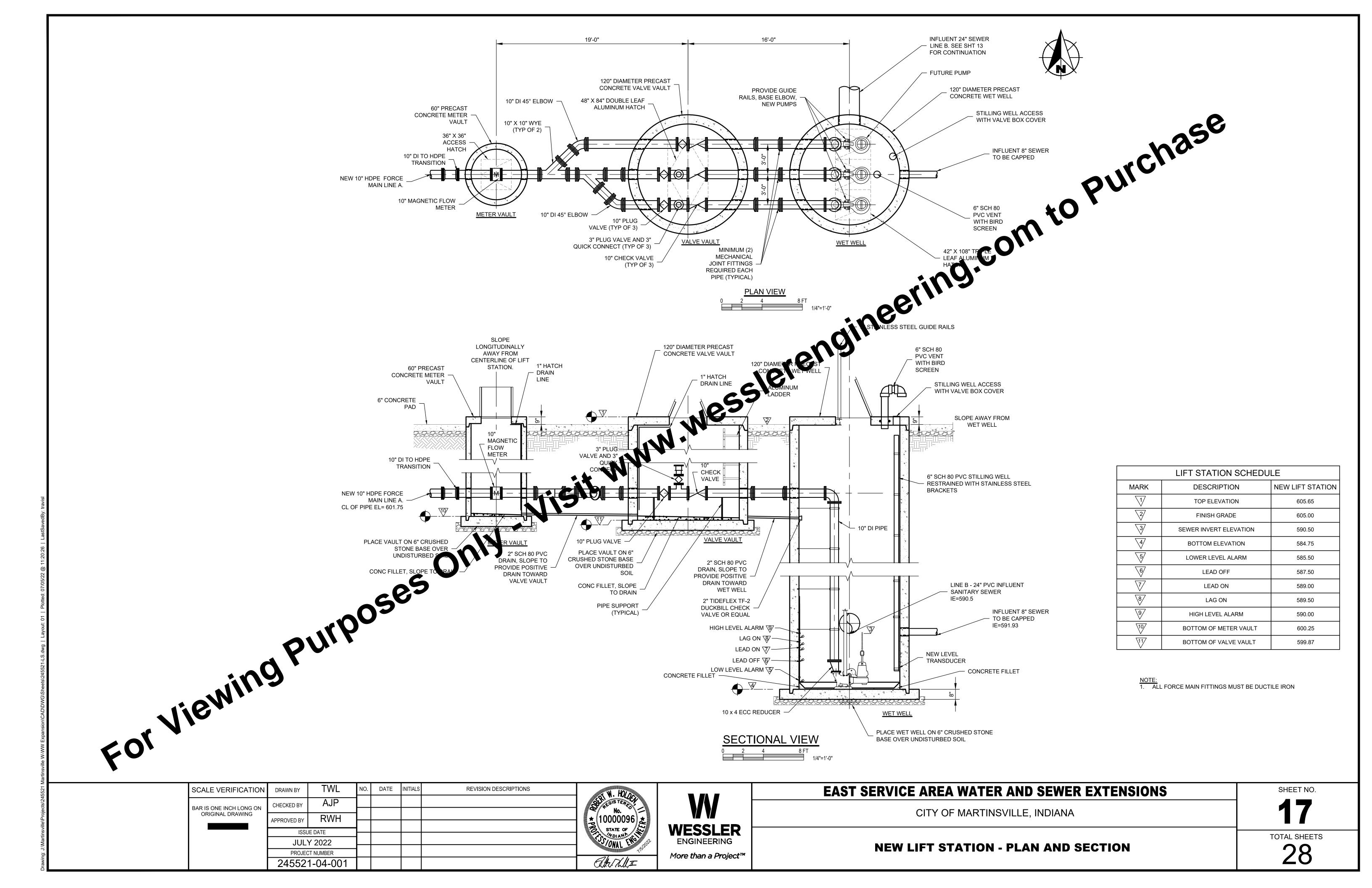
WESSLER ENGINEERING More than a Project™

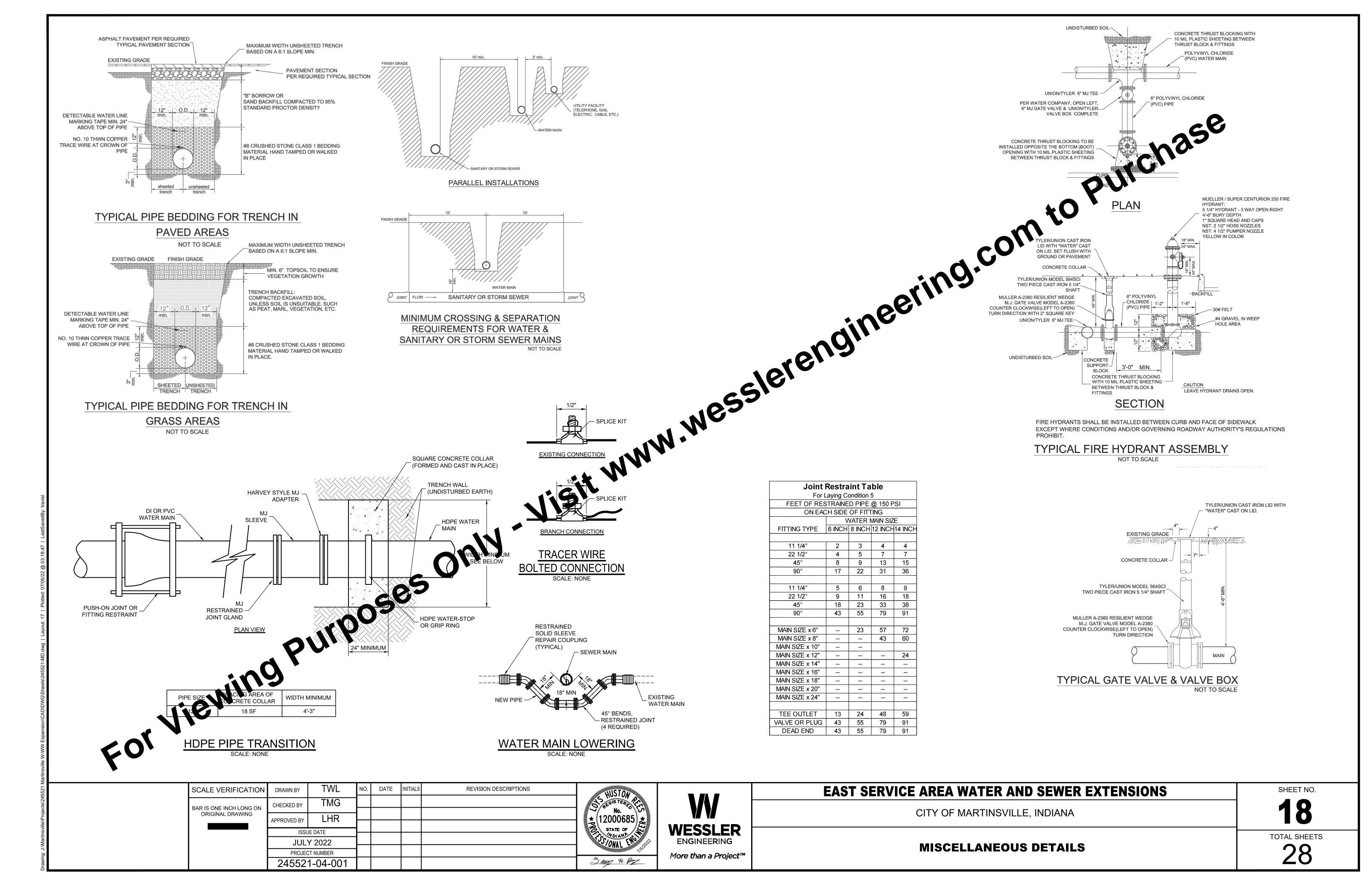
EAST SERVICE AREA WATER AND SEWER EXTENSIONS	
CITY OF MARTINSVILLE INDIANA	

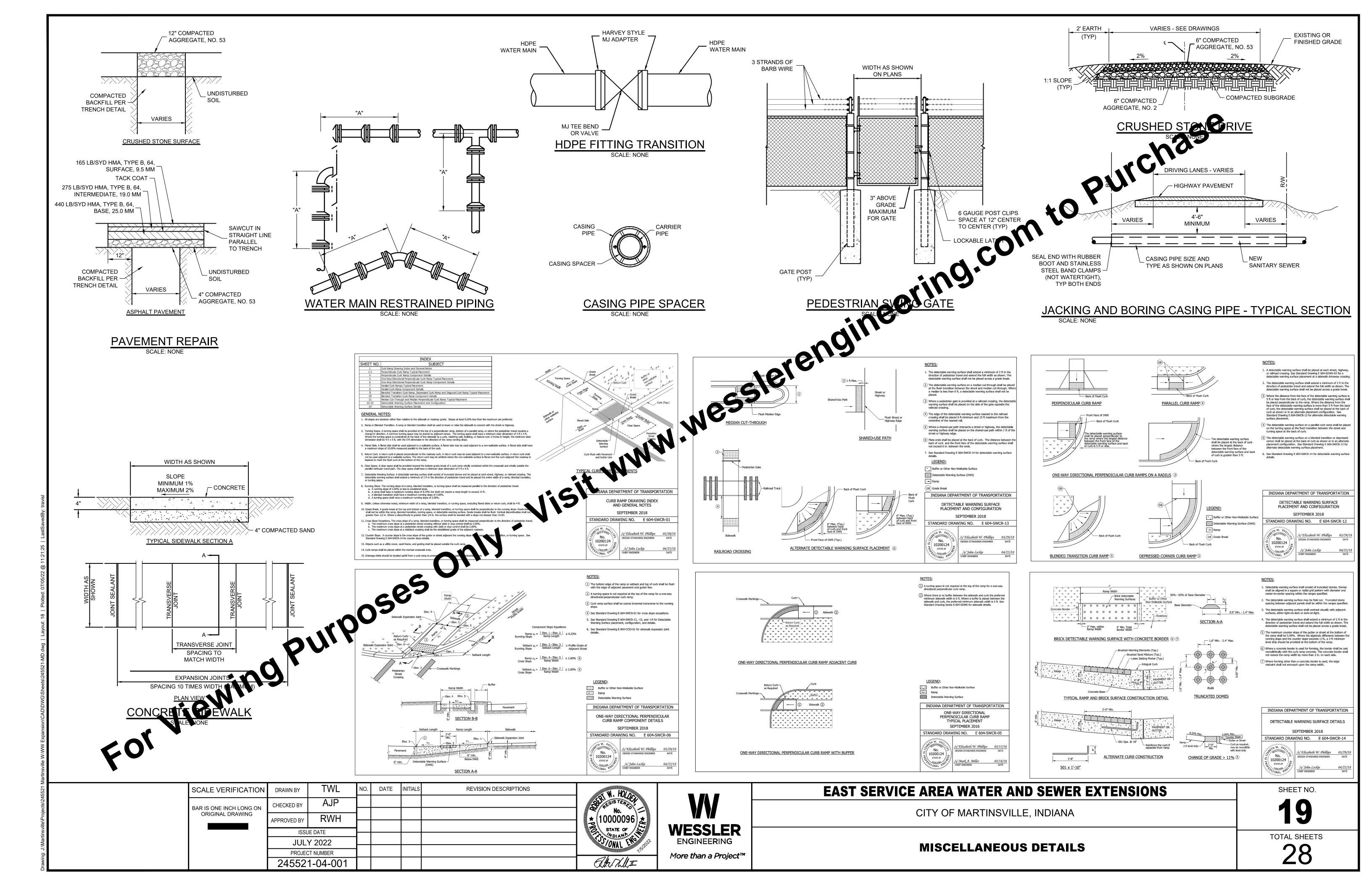
CITY OF MARTINSVILLE, INDIANA

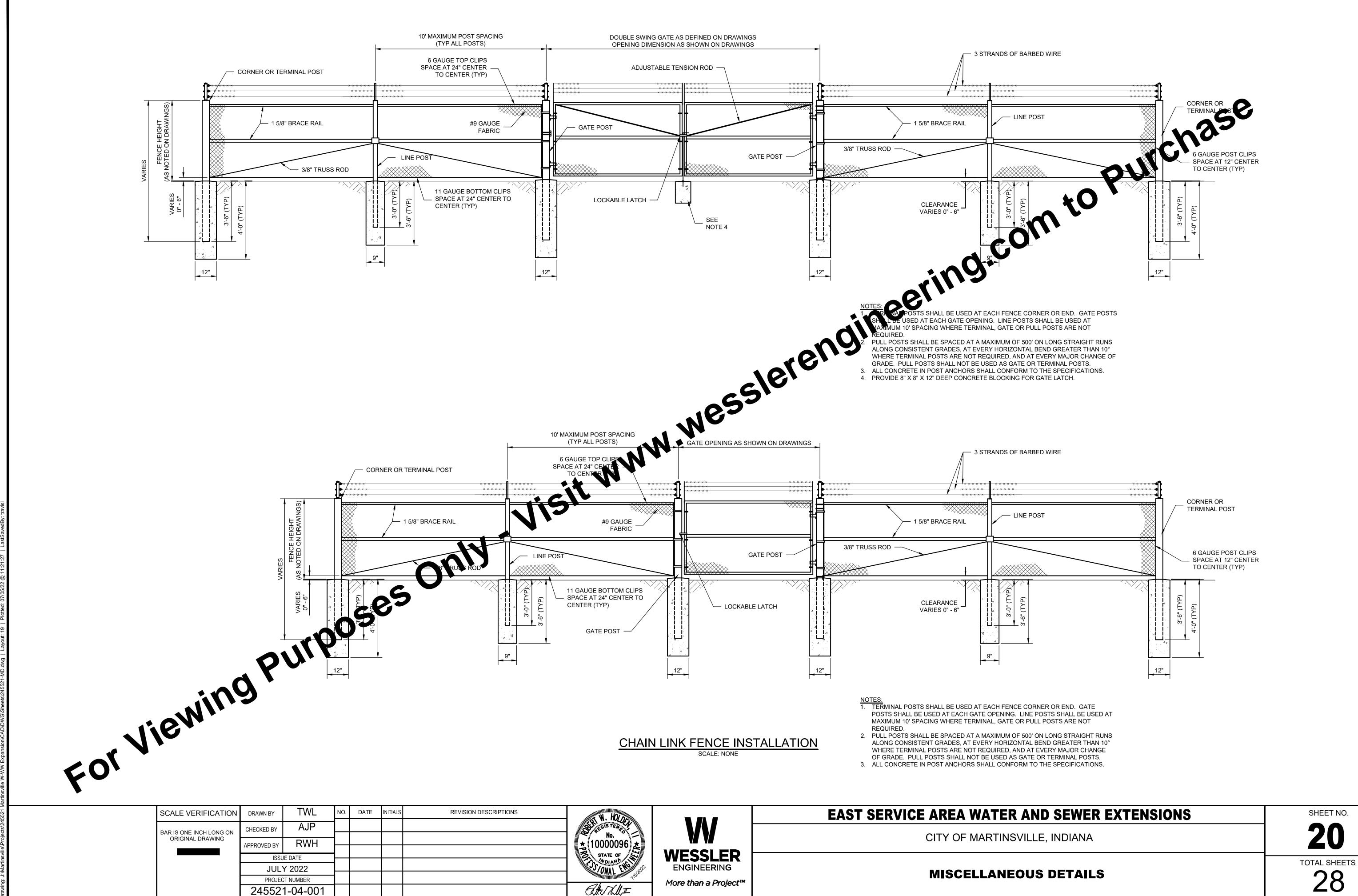
SHEET NO.

NEW LIFT STATION - ELECTRICAL SITE PLAN

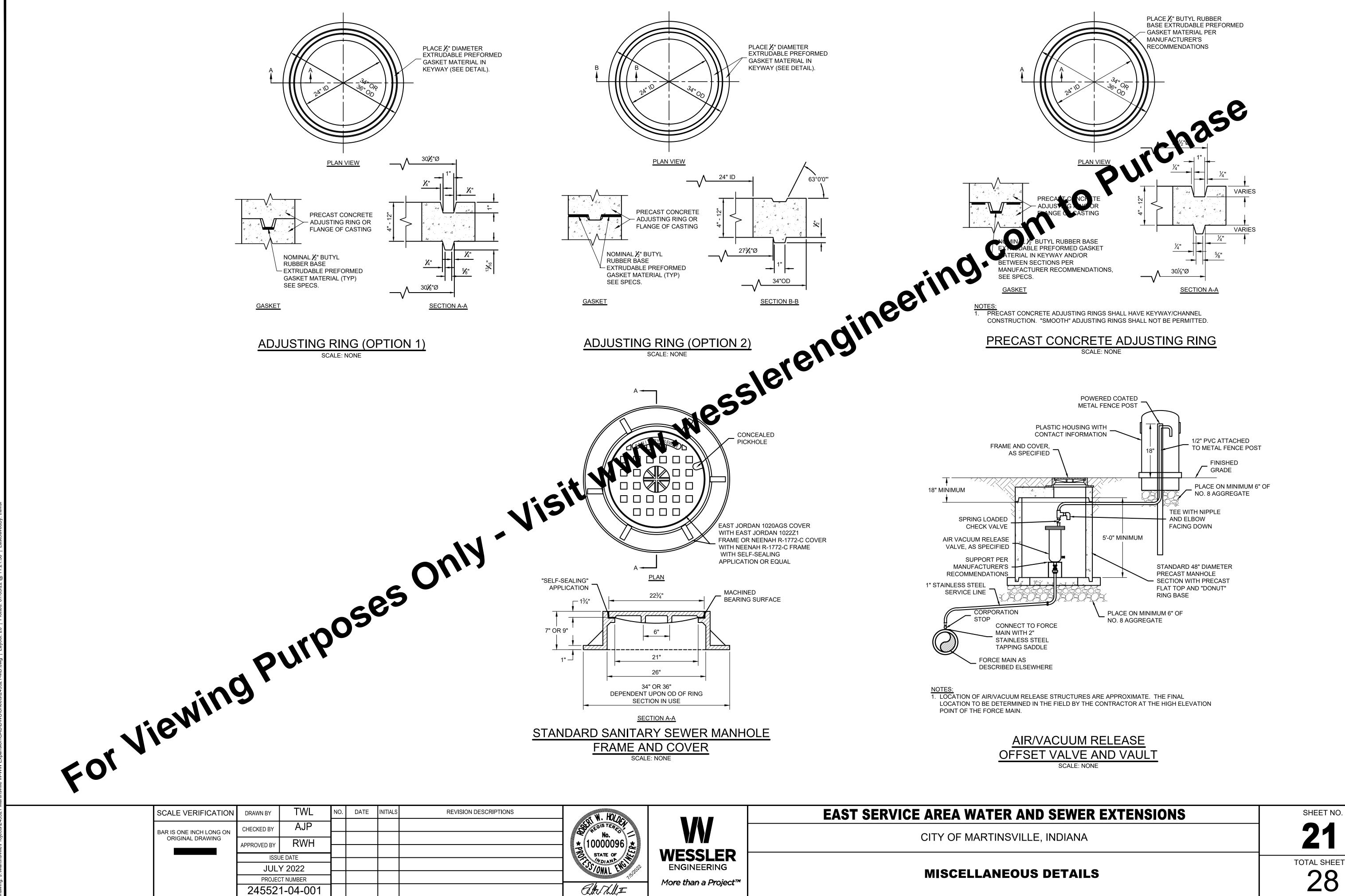


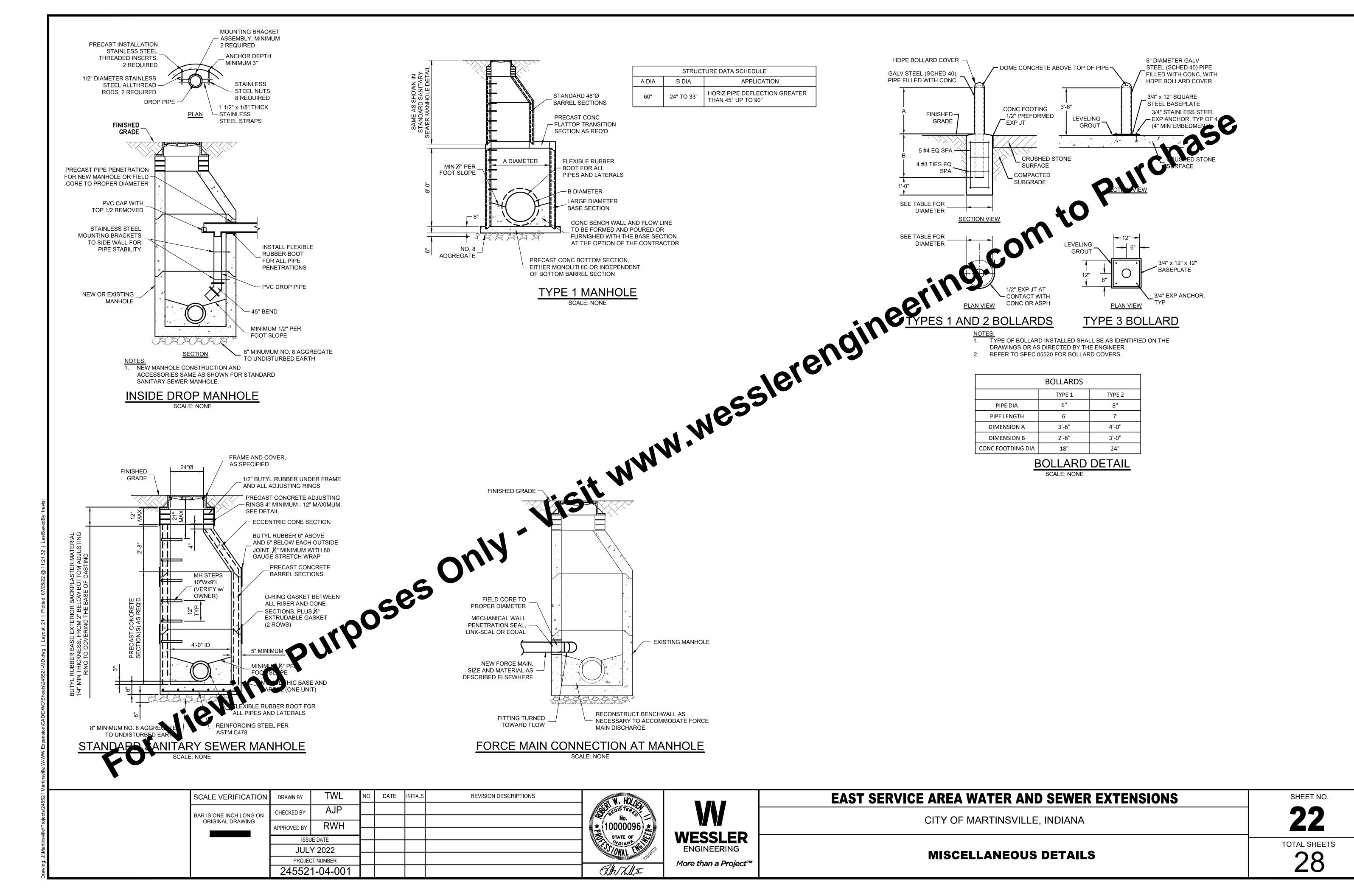






245521-04-001



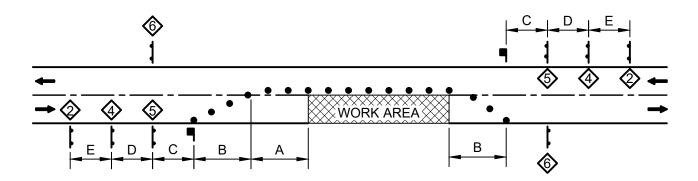


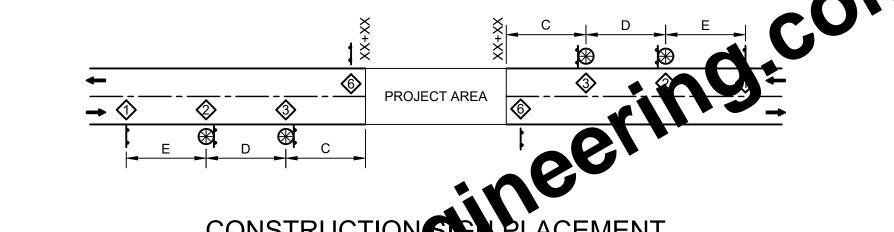
SPEED	DISTANCE (FEET)									
(MPH)	А	В	С	D	E					
20 OR LESS	120	100	100	100	100					
25	160	100	100	100	100					
30	200	100	100	100	100					
35	280	100	350	350	350					
40	320	100	350	350	350					
45	360	100	500	500	500					
50	440	100	500	500	500					
55	520	100	500	500	500					
60	600	100	1,000	1,600	2,640					
65	680	100	1,000	1,600	2,640					
70	760	100	1,000	1,600	2,640					

NOTES:

1. DISTANCES SHOWN ARE APPROXIMATE. ADJUST SIGN FOR CURVES, HILLS, INTERSECTIONS, DRIVEWAYS, ETC TO IMPROVE

2. THE SPACING OF CHANNELIZING DEVICES SHOULD BE A DISTANCE IN FEET EQUAL TO THE SPEED LIMIT IN MPH WHEN USED FOR TAPER CHANNELIZATION, AND A DISTANCE IN FEET EQUAL TO 2.0 TIMES THE SPEED LIMIT IN MPH USED FOR TANGENT CHANNELIZATION.





WORK AREA(S)

TYPE A CONSTRUCTION WARNING LIGHT

ROAD CLOSURE SIGN ASSEMBLY, INCLUDES R11-2, BARRICADE TYPE IIIB, AND TYPE B CONSTRUCTION WARNING LIGHT

UNDISTRIBUTED COMPACTED AGGREGATE, NO. 53, TEMPORARY FOR ACCESS

TEMPORARY PAVEMENT MARKING, REMOVABLE, SOLID, 4" (YELLOW)

TEMPORARY PAVEMENT MARKING, REMOVABLE, SOLID, 4" (WHITE)

TEMPORARY PAVEMENT MARKING, PAINT, SOLID, 4" (YELLOW)

TEMPORARY PAVEMENT MARKING, PAINT, SOLID, 4" (WHITE)

RD REMOVAL OF LINE FLAGGER

SIGN, FACING LEFT

SIGN, FACING RIGHT

TRAFFIC CONTROL LEGEND

SCALE: NONE

DATE INITIALS REVISION DESCRIPTIONS SCALE VERIFICATION DRAWN BY CHECKED BY BAR IS ONE INCH LONG ON ORIGINAL DRAWING RWH JULY 2022

PROJECT NUMBER

245521-04-001

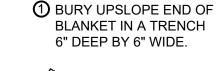
No.
10000096 *
STATE OF
ONAL atri till, I

WESSLER ENGINEERING More than a Project™ EAST SERVICE AREA WATER AND SEWER EXTENSIONS

CITY OF MARTINSVILLE, INDIANA

MAINTENANCE OF TRAFFIC DETAILS

SHEET NO.



(3) USE A 6" OVERLAP WHEREVER ONE ROLL OF BLANKET ENDS AND ANOTHER BEGINS.

ANCHORED

4 CHECK SLOTS SHOULD BE MADE EVERY 18'. INSERT A FOLD OF THE BLANKET INTO A TRENCH 6" WIDE BY 6" DEEP AND TAMP FIRMLY. LAY THE BLANKET SMOOTHLY ON THE SURFACE OF THE SOIL: DO NOT STRETCH THE BLANKET, AND

DO NOT ALLOW WRINKLES. INSTALL STAPLE 20"

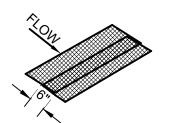
② USE A 4" OVERLAP WHEREVER

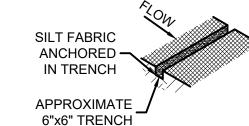
APPLIED SIDE BY SIDE.

STAPLE PATTERN:

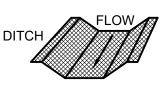
TWO WIDTHS OF BLANKET ARE

MINIMUM 3 PER SQUARE YARD.





ON CENTER IN TRENCH.



PLACE BLANKET PARALLEL TO THE DIRECTION OF FLOW DO NOT JOIN STRIPS IN THE CENTER OF THE DITCH. USE CHECK SLOTS AS REQUIRED. PLACE BLANKET PARALLEL TO THE DIRECTION OF FLOW AND ANCHOR SECURELY. BRING BLANKET TO A LEVEL AREA BEFORE TERMINATING

THE INSTALLATION.

PRODUCT:

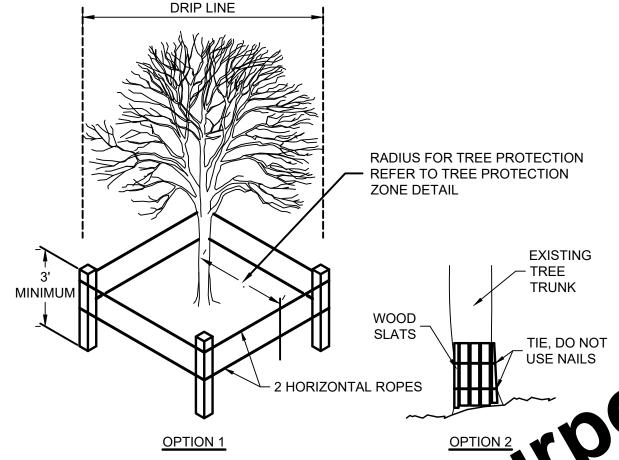
1. NORTH AMERICAN GREEN SC150, OR EQUAL.

1. PROTECT THE SLOPES WITH AN EROSION CONTROL BLANKET WHERE CONSTRUCTION DISTURBS SLOPES EQUAL OR STEEPER THAN 3:1.

INSPECT FOR EROSION AFTER EACH STORM EVENT DURING VEGETATION ESTABLISHMENT, AND AT LEAST ONCE EVERY 7 CALENDAR DAYS.

- 2. IF ANY AREAS SHOW EROSION, PULL BACK THAT PORTION OF THE BLANKET, ADD SOIL, RESEED, RELAY AND STAPLE THE BLANKET.
- CHECK AREAS PERIODICALLY AFTER VEGETATION ESTABLISHMENT.

EROSION CONTROL BLANKET



NOTES:

1. PROTECT TREES WHERE NOTED ON THE DRAWINGS DURING PROTECT TREE ROOTS.

- 2. OPTION 1 SHALL BE THE STANDARD TREE PROTECTION ME MAY BE PROTECTED BY A SINGLE SET OF PERIMETY AS OPES AROVIDED THE APPROPRIATE TREE PROTECTION ZONE IS MAINTALIED. OR EACH TREE.

- CTION ACTIVITIES. REPAIR WOUNDS SIMPLY ID WOOD TISSUE. DO NOT USE TREE PAINT.

SCALE: NONE

SCALE VERIFICATION

BAR IS ONE INCH LONG ON

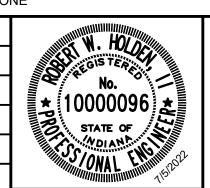
ORIGINAL DRAWING

245521-04-001

RUNK SPLITS, WEAK FORKS, AND LARGE LIMBS.

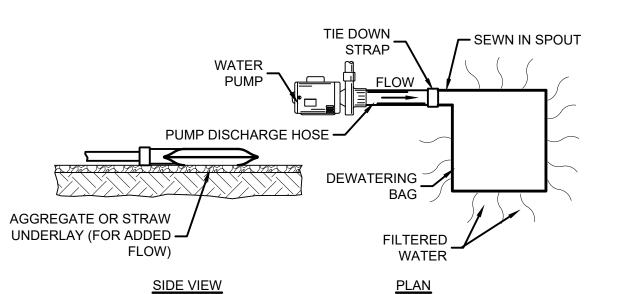
TREE PROTECTION METHODS

DATE INITIALS **REVISION DESCRIPTIONS** DRAWN BY AJP **CHECKED BY** RWH APPROVED BY ISSUE DATE **JULY 2022** PROJECT NUMBER



att till, I





MECHANICAL PROPERTIES	TEST METHOD	UNITS	INDUSTRY STANDARD
GRAB TENSILE STRENGTH	ASTM D4632	kN (LB)	0.9 (205) X 0.9 (205)
GRAB TENSILE ELONGATION	ASTM D4632	%	50 X 50
PUNCTURE STRENGTH	ASTM D4833	kN (LB)	0.58 (130)
MULLEN BURST STRENGTH	ASTM D3786	kPa (PSI)	2618 (380)
TRAPEZOID TEAR STRENGTH	ASTM D4533	kN (LB)	0.36 (80) X 0.36 (80)
UV RESISTANCE	ASTM D4355	%	70
APPARENT OPENING SIZE	ASTM D4751	Mm (US STD SIEVE)	0.180 (80)
FLOW RATE	ASTM D4491	1/MIN/M² (GAL/MIN/FT²)	3866 (95)

SOURCE:

KRISTAR

SEDCATCH

PERMITTIVITY

1. DURING THE ACTIVE DEWATERING PROCESS, INSPECTION OF THE PUMPING BAG SHOULD BE REVIEWED FREQUENTLY. SPECIAL ATTENTION SHOULD BE PAID TO THE BUFFER AREA FOR ANY SIGN OF EROSION AND CONCENTRATION OF FLOW. OBSERVE WHERE POSSIBLE THE VISUAL QUALITY OF THE EFFLUENT AND

1.2

- DETERMINE IF ADDITIONAL TREATMENT CAN BE PROVIDED. 2. DISPOSE OF ACCUMULATED SEDIMENT REMOVED DURING PUMPING OPERATIONS IN CONFORMANCE WITH
- 3. REPLACE THE BAG OR DISPOSE OF SILT WHEN HALF FULL OF SEDIMENT OR WHEN SEDIMENT HAS REDUCED THE FLOW RATE TO AN IMPRACTICAL RATE

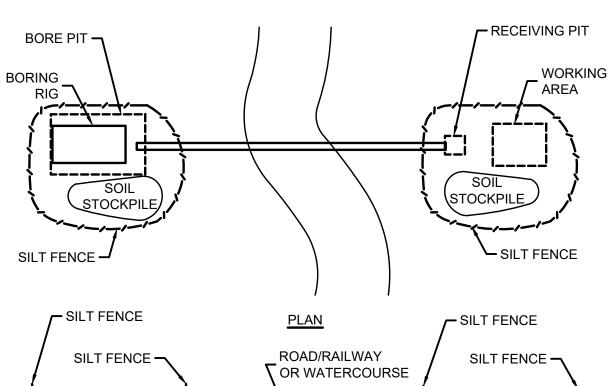
PUMPING BAG DANDY DEWATERING BAG

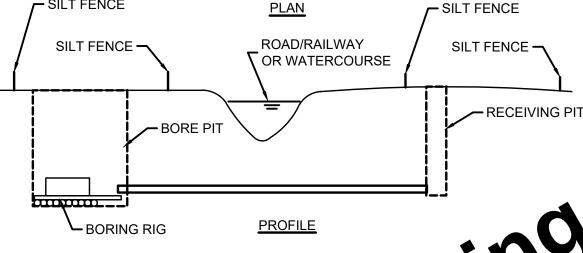
ASTM D4491

MINIMUM PROTECTION ZONE SIZES SHOWN BELOW ARE BASED ON MEASUREMENT OF TREE STEM DIAMETER AT 4.5 FEET ABOVE TH GROUND (DIAMETER AT BREAST HEIGHT - DBH), FOR TREE MEASUREMENTS ARE ADDED TOGETHER TO CREAT

TREE DIAMETER (DBH)	TREE PROTECTION ZONE (RADIUS FROM TRUNK)	C	AIL STER DE	ZEE PROTECTION ZONE (RADIUS FROM TRUNK)
1"	~		26"	22'
2"	2'		27"	23'
3"	3'		28"	23'
4"	3'		29"	24'
3	4'		30"	25'
211	5'		31"	26'
7"	6'		32"	27'
8"	7'		33"	28'
9"	8'		34"	28'
10"	8'		35"	29'
11"	9'		36"	30'
12"	10'		37"	31'
13"	11'		38"	32'
14"	12'		39"	33'
15"	13'		40"	33'
16"	13'		45"	38'
17"	14'		50"	42'
18"	15'		55"	46'
19"	16'		60"	50'
20"	17'		65"	54'
21"	18'		70"	58'
22"	18'		75"	63'
23"	19'		80"	67'
24"	20'		85"	71'
25"	21'		90"	75'

TREE PROTECTION ZONE



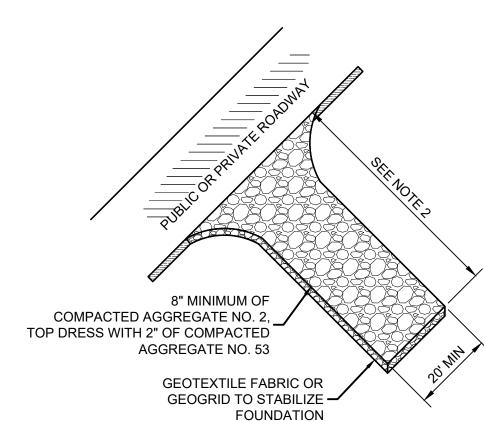


- INSTALL SILT FENCE PRIOR TO ANY EXCAVATION FILTER WATER FROM BORE PIT DEWATERING DISCHARGE TO ANY DITCH, STREAM

- NAS NECESSARY TO CONTAIN ANY

RS AFTER EACH RAINFALL. REPAIR OR REPLACE DEPOSITS FROM THE SILT FENCE AFTER STORM EVENTS

HORIZONTAL BORED CROSSING



EROSION CONTROL SCHEDULE

PRECONSTRUCTION ACTIVITIES: POST THE FOLLOWING INFORMATION NEAR THE MAIN ENTRANCE OF THE PROJECT SITE OR AT A PUBLICLY ACCESSIBLE LOCATION: NOTICE OF LOCAL AUTHORITY BY THE OWNER. INTENT (NOI) DOCUMENT, COPY OF THE PUBLIC NOTICE. NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT NUMBER, NAME, ADDRESS, AND PHONE NUMBER OF THE LOCAL CONTACT PERSON, AND LOCATION OF A COPY OF THE CONSTRUCTION DRAWINGS AND

AUTHORIZATION UNDER THE CSGP IS EFFECTIVE 48-HOURS AFTER SUBMITTAL OF THE NOTICE OF INTENT TO IDEM AND

COMPLETE BEFORE CONSTRUCTION BEGINS.

AFTER CONSTRUCTION IS ACCESSED, BASINS SHALL

BE INSTALLED. WITH THE ADDITION OF MORE TRAPS

RUNOFF CONTROL PRACTICES SHALL BE INSTALLED

AFTER THE INSTALLATION OF SEDIMENT TRAPS AND

AS NECESSARY, STABILIZE STREAM BANKS AND SIDE

SLOPES OF RUNOFF SYSTEMS AS SOON AS POSSIBLE

USE EROSION CONTROL BLANKETS OR SLOPE DRAINS

TO PREVENT EROSION. INSTALL INLET PROTECTION

DRAINAGE SYSTEMS. PROTECT STORM OUTLETS TO

TO PREVENT SEDIMENTS FROM ENTERING STORM

BEFORE LAND GRADING. ADDITIONAL RUNOFF

CONTROL MEASURES MAY BE INSTALLED DURING

AND BARRIERS AS NEEDED DURING GRADING. SET UP PROTECTION FOR NATURAL FEATURES, TREES AND

SCHEDULE CONSIDERATION

BUFFERS.

GRADING.

DRAWINGS AND REVISE AS NE DET CONSTRUCTION ACTIVITIES T DISTURBED UNSTABLE E S N EDED FOR TEMPORARY AND ON A ROL WORK AS APPLICABLE.

STORMWATER POLLUTION PREVENTION PLAN (SWP3)

MAINTAIN DOCUMENTATION ON-SITE PER SPECIFICATION

02101 FOR THE PROJECT MANAGEMENT LOG. THE SWPPF

SHOULD BE ONSITE AND SELF-MONITORING INSPECTION

REPORTS MUST BE AVAILABLE WITHIN 48 HOURS OF

REQUEST. INFORM OR TRAIN PERSONNEL ASSOC

THE PROJECT OF THE TERMS AND CONDITION

AND THE SWPPP REQUIREMENTS.

CONSTRUCTION ACTIVITY

THIS IS THE FIRST LAND-DISTURBING ACTIVITY. AS ROUTES, AREAS DESIGNATED FOR SOON AS CONSTRUCTION BEGINS, STABILIZE ANY RKING OR MATERIAL STAGING AND BARE AREAS WITH AGGREGATE AND TEMPORARY VEGETATION.

DIMENT TRAPS AND BARRIERS - BASIN TRAPS, SILT ENCE AND PERIMETER PROTECTION.

RUNOFF CONTROL - DIVERSIONS, PERIMETER PROTECTION, CHECK DAMS, OUTLET PROTECTION.

RUNOFF CONVEYANCE SYSTEM - STABILIZE STREAM BANKS, STORM DRAINS, CHANNELS, INLET AND OUTLET PROTECTION, SLOPE DRAINS.

LAND CLEARING AND GRADING - SITE PREPARATION (CUTTING, FILLING, AND GRADING, SEDIMENT TRAPS,

BARRIERS, DIVERSIONS, DRAINS, SURFACE ROUGHENING).

SURFACE STABILIZATION - TEMPORARY AND PERMANENT SEEDING, MULCHING, SODDING, RIPRAP, EROSION CONTROL BLANKET.

CONSTRUCTION - STRUCTURES, UTILITIES, PAVING,

CONCRETE WASHOUT, AND CONSTRUCTION ENTRANCES. LANDSCAPING AND FINAL STABILIZATION -TOPSOILING, TREES AND SHRUBS, PERMANENT

SEEDING, MULCHING, SODDING, RIPRAP.

PREVENT EROSION. IMPLEMENT CLEARING AND GRADING AFTER INSTALLATION OF SEDIMENT TRAPS AND RUNOFF CONTROL MEASURES, AND INSTALL ADDITIONAL CONTROL MEASURES AS GRADING CONTINUES. CLEAR BORROW AND DISPOSAL AREAS AS NEEDED. APPLY TEMPORARY OR PERMANENT STABILIZING MEASURES IMMEDIATELY TO ANY DISTURBED AREAS WHERE WORK HAS BEEN EITHER COMPLETED OR DELAYED. DURING CONSTRUCTION, INSTALL ANY EROSION AND SEDIMENTATION CONTROL MEASURES THAT ARE NEEDED. THIS IS THE LAST CONSTRUCTION PHASE. STABILIZE ALL DISTURBED AREAS, INCLUDING BORROW AND SPOIL AREAS, AND REMOVE ALL TEMPORARY CONTROL MEASURES. FINAL STABILIZATION IS WHEN A UNIFORM

DENSITY OF 70% VEGETATION COVER IS MET. PROVIDE NOTIFICATION TO THE OWNER WHEN THE ENTIRE SITE HAS BEEN STABILIZED AND ALL CONSTRUCTION MATERIALS, WASTES, AND EQUIPMENT HAVE BEEN

EROSION CONTROL SCHEDULE

1. PLACE CONSTRUCTION ENTRANCE AS SHOWN ON THE PLANS AND AT ALL

TEMPORARY CONSTRUCTION DRIVES THAT ARE INSTALLED. 2. FOR LARGE SITES (2 ACRES OR LARGER) THE MINIMUM LENGTH IS 150'. FOR SMALLER SITES (LESS THAN 2 ACRES) THE MINIMUM LENGTH IS 50'.

3. PROVIDE CULVERT OR OTHER METHODS AS NECESSARY TO MAINTAIN POSITIVE

MAINTENANCE:

1. INSPECT DAILY AND REPLACE DISPLACED STONE. 2. IMMEDIATELY REMOVE MUD AND SEDIMENT TRACKED ONTO ADJACENT ROADWAY.

RESHAPE PAD AS NEEDED FOR DRAINAGE AND RUNOFF CONTROL.

4. AT COMPLETION OF PROJECT COMPLETELY REMOVE AND RESTORE SITE TO ORIGINAL CONDITIONS, OR AS APPLICABLE USE FOR BASE OF NEW PERMANENT DRIVE, MAINTAINING DESIGN ELEVATIONS AND SECTION

CONSTRUCTION ENTRANCE

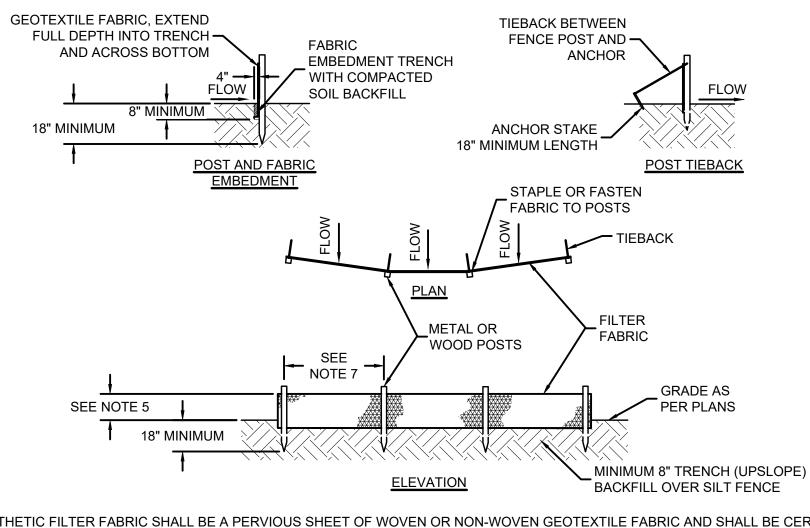
EAST SERVICE AREA WATER AND SEWER EXTENSIONS

CITY OF MARTINSVILLE, INDIANA

SHEET NO.

EROSION CONTROL DETAILS

TOTAL SHEETS



SYNTHETIC FILTER FABRIC SHALL BE A PERVIOUS SHEET OF WOVEN OR NON-WOVEN GEOTEXTILE FABRIC AND SHALL BE CERTIFIED BY THE MANUFACTURER OR SUPPLIER AS CONFORMING TO THE FOLLOWING REQUIREMENTS:

a. TEXTILE STRENGTH AT 20% (MAXIMUM) ELONGATION, PER ASTM D4632.

b. WOVEN EXTRA STRENGTH - 50 LB/LINEAR INCH (MINIMUM), NON-WOVEN EXTRA STRENGTH - 70 LB/INCH (MINIMUM)

c. WOVEN STANDARD STRENGTH - 30 LB/LINEAR INCH (MINIMUM), NON-WOVEN STANDARD STRENGTH - 50 LB/INCH (MINIMUM). d. APPARENT OPENING SIZE (AOS) (U.S. SIEVE) - NO. 30 PARTICLE SIZE OF 0.6 mm (MAXIMUM), ASTM D4751.

e. PERMITTIVITY - 0.05 S⁻¹ (MAXIMUM), ASTM D4491.

POSTS FOR SILT FENCES SHALL BE EITHER 2"X2" SQUARE WOOD OR EQUIVALENT METAL POSTS WITH A MINIMUM LENGTH OF 5'. METAL POSTS

ANCHOR STAKES FOR SILT FENCES SHALL BE 1"x2" WOOD (PREFERRED) OR EQUIVALENT METAL WITH A MINIMUM LENGTH OF 18".

WIRE FENCE REINFORCEMENT FOR SILT FENCES USING STANDARD STRENGTH FILTER CLOTH SHALL BE A MINIMUM OF 42" IN HEIGHT, A MINIMUM OF

14 GAUGE, AND SHALL HAVE A MAXIMUM MESH SPACING OF 6". THE HEIGHT OF THE BARRIER SHALL BE A MINIMUM OF 18" AND A MAXIMUM OF 30".

THE FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID THE USE OF JOINTS. WHEN JOINTS AND A STANKER TO AVOID THE USE OF JOINTS. NECESSARY, FILTER FABRIC SHALL BE SPLICED TOGETHER ONLY AT A SUPPORT POST, WITH A MINIMUM 6" OVERLAP, AND SECURELY SEALE

POSTS SHALL BE SPACED A MAXIMUM OF 6' APART AT THE BARRIER LOCATION AND DRIVEN SECURELY INTO THE GROUND (MINIMUM Q STANDARD STRENGTH FABRIC IS USED WITH THE WIRE SUPPORT FENCE, POST SPACING SHALL NOT EXCEED 8'

THE SPACING OF TIEBACKS SHALL EQUAL THE SPACING OF THE POSTS. ADDITIONAL POST DEPTH OR TIEBACKS MAY E

10. WHEN STANDARD STRENGTH FILTER FABRIC IS USED WITH A WIRE MESH SUPPORT FENCE IT SHALL BE FASTER OF CONTACT TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY DUTY 1" WIRE STAPLES, TIE WIRES OR HOG RINGS. THE WIRE SHALL EXTEND MORE THAN 36" AROVE THE ORIGINAL CROUND SUBFACE.

11. THE STANDARD STRENGTH FILTER FABRIC, WITHOUT A WIRE MESH SUPPORT FENCE, SHALL BE STOPLE OF THE FENCE, AND A MINIMUM 8" OF THE FABRIC SHALL BE EXTENDED INTO THE TRENCH. THE FABRIC SHALL NOT EXTENDED A 36" ABOVE THE ORIGINAL GROUND SURFACE. DO NOT STAPLE FILTER FABRIC TO FXISTING TREES SURFACE. DO NOT STAPLE FILTER FABRIC TO EXISTING TREES.

12. WHEN EXTRA STRENGTH FILTER FABRIC OR BURLAP AND POST SPACING IS LESS UM SPECIFIED SPACING OF 6', THE WIRE MESH

SUPPORT FENCE MAY BE ELIMINATED. 13. BACKFILL THE TRENCH AND COMPACT THE SOIL OVER THE FILTER FABR

14. REMOVE SILT FENCES WHEN THEY HAVE SERVED THEIR USEFUL PURP FORE THE UPSLOPE AREA HAS BEEN PERMANENTLY

STABILIZED. NSTALLED ACROSS A STREAM, CHANNEL, DITCH, SWALE, ETC. 15. SILT FENCE SHALL NO

MAINTENANCE:

1. INSPECT AFTER EACH RAINFALL AND DAILY DURING PROUNCED INJUNEALL. INSPECT AT LEAST ONCE EVERY 7 CALENDAR DAYS.

2. REPLACE OR REPAIR FABRIC IMMEDIATELY IF IT DECDL POLES OR IS INVEFFECTIVE.

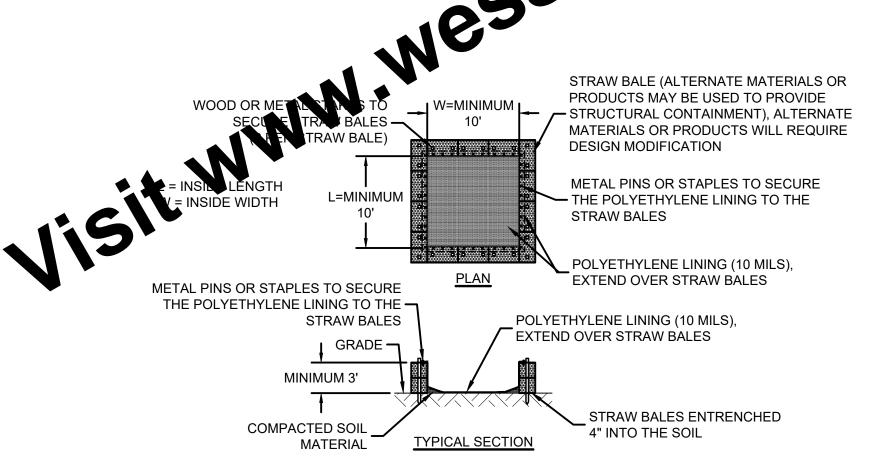
3. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER LACASTORM EVENT. THEY MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY HALF THE HEIGHT OF THE BARRIER.

5. SPREAD ANY SEDIMENT DEPOSITS KEM IN SIN LACE AFTER THE SILT FENCE IS NO LONGER REQUIRED AND DRESS TO CONFORM WITH THE FINISHED GRADING.

SILT FENCE

SEASONAL SOIL PROTECTION CHART

STABILIZATION PRACTICE	^N JAN I	EB MAR	APR MAY	JUN JU	L AUG	SEP OCT	NOV DEC
PERMANENT SEEDING		N-		-A-		——N	
DORMANT SEEDING	№ ——В—	─ ─₩					14 ——B—— 14
TEMPORARY SEEDING		K —C—E	——N		⋈ —Е—⋈	k —D	-bi
SODDING		N		F		—— N	
MULCHING	K			G			



1. LOCATE WASHOUTS AT LEAST 50' FROM ANY CREEKS, WETLANDS, DITCHES, KARST FEATURES, OR STORM DRAIN/CONVEYANCES.

- 1. DO NOT LEAVE EXCESS MUD IN THE CHUTES OR HOPPER AFTER POURING CONCRETE. MAKE EVERY EFFORT TO EMPTY THE CHUTE AND HOPPER AT THE POUR. THE LESS MATERIAL LEFT IN THE CHUTES AND HOPPER, THE QUICKER AND EASIER THE CLEANOUT. SMALL AMOUNTS OF EXCESS CONCRETE (NOT WASHOUT WATER) MAY BE DISPOSED OF IN AREAS THAT WILL NOT FLOW TO AN AREA THAT IS TO BE
- 2. SCRAPE AS MUCH MATERIAL FROM THE CHUTES AS POSSIBLE BEFORE WASHING THEM. USE NON-WATER CLEANING METHODS TO MINIMIZE THE CHANCE FOR WASTE TO FLOW OFF SITE.
- 3. STOP WASHING OUT IN AN AREA IF YOU OBSERVE WATER RUNNING OFF THE DESIGNATED AREA OR IF
- THE WATER IS NOT BEING CONTAINED WITHIN THE WASHOUT AREA. 4. DO NOT BACK FLUSH EQUIPMENT AT THE PROJECT SITE.
- 5. DO NOT USE ADDITIVES WITH WASH WATER.
- 6. DO NOT WASH OUT OR DRAIN WASTE WATERS TO STORM DRAINS, WETLANDS, STREAMS, RIVERS, CREEKS, DITCHES OR STREETS.

MAINTENANCE:

1. MAINTENANCE REQUIREMENTS PROVIDED IN SPECIFICATIONS.

CONCRETE WASHOUT

SCALE VERIFICATION	DRAWN BY	TWL	NO.	DATE	INITIALS	REVISION DESCRIPTIONS	W. HOLOZUL
BAR IS ONE INCH LONG ON	CHECKED BY	AJP					O REGISTER OF
ORIGINAL DRAWING	APPROVED BY	RWH					No. 10000096 ★
	ISSL	E DATE	 				STATE OF VOIAN
		Y 2022 CT NUMBER	\vdash				ONAL EMMINISTRAÇÃO DE LA CONTRACTION DEL CONTRACTION DE LA CONTRAC
		1-04-001					Eth√Ll,≖



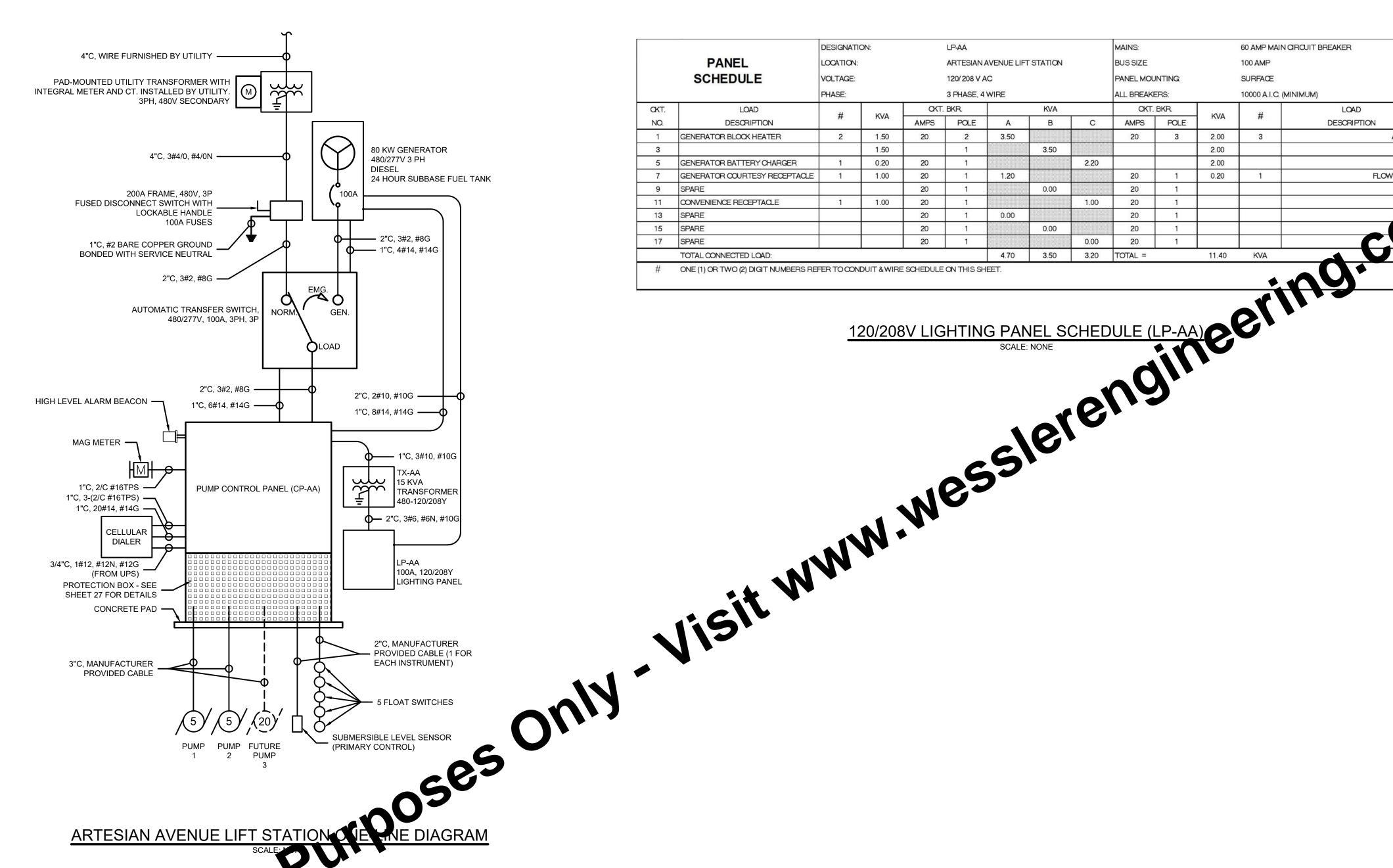
WESSLER ENGINEERING

EAST SERVICE AREA WATER AND SEWER EXTENSIONS CITY OF MARTINSVILLE, INDIANA

EROSION CONTROL DETAILS

SHEET NO.





		DESIGNATIO	ON:		LP-AA				MAINS:			60 AMP MAII	N GROUIT BREAKER		
	PANEL	LOCATION:			ARTESIAN A	VENUE LIF	STATION		BUS SIZE			100 AMP			
	SCHEDULE	VOLTAGE:			120/208 V A	С			PANEL MOU	NTING:		SURFACE			
		PHASE:			3 PHASE, 4	WIRE			ALL BREAKE	RS:		10000 A.I.C.	(MINIMUM)		
CKT.	LOAD	44	KVA	CKT.	BKR.		KVA		скт.	BKR.	KVA	#	LOAD	CKT.	
NO.	DESCRIPTION	#	KVA	AMPS	POLE	Α	В	С	AMPS	POLE	KVA	#	DESCRIPTION	NO.	8
1	GENERATOR BLOCK HEATER	2	1.50	20	2	3.50			20	3	2.00	3	ACUNIT	2	
3			1.50		1		3.50				2.00			4	
5	GENERATOR BATTERY CHARGER	1	0.20	20	1			2.20			2.00			6	
7	GENERATOR COURTESY RECEPTACLE	1	1.00	20	1	1.20			20	1	0.20	1	FLOW METER	8	
9	SPARE			20	1		0.00		20	1			SPARE	10	
11	CONVENIENCE RECEPTACLE	1	1.00	20	1			1.00	20	1			SPARE	12	
13	SPARE			20	1	0.00			20	1			SPARA		
15	SPARE			20	1		0.00		20	1			SPA E	16	
17	SPARE			20	1			0.00	20	1				18	
	TOTAL CONNECTED LOAD:					4.70	3.50	3.20	TOTAL =		11.40	KVA	40		
#	ONE (1) OR TWO (2) DIGIT NUMBERS RE	FER TO CONI	DUIT & WIRE	SCHEDULE	ON THIS SH	EET.			<u> </u>				-ACA*		

GENERAL NOTES:

- 1. LOCATE ALL EXISTING UTILITIES AND PIPING PRIOR TO CONSTRUCTION
- 2. ALL ENCLOSURE TO BE NEMA 4X S.S.
- ALL PUMP MOTORS SHALL BE INVERTER DUTY RATED AND OPERATED BY VFDS WITH A MATCHING HORSEPOWER RATING.
- 4. SEE SHEET 28 FOR LIGHTING FIXTURE MOUNTING DETAILS.

CONDUIT & WIRE SCHEDULE:

- (1) 3/4"C, #12, #12N, #12G
- 3/4"C, 2#12, #12G
- 3/4"C, 3#12, #12G

ARTESIAN AVENUE LIFT STATION CLE
SCALE:

SCALE VERIFICATION

BAR IS ONE INCH LONG ON ORIGINAL DRAWING

DATE INITIALS REVISION DESCRIPTIONS DRAWN BY CHECKED BY WCM APPROVED BY ISSUE DATE JULY 2022 PROJECT NUMBER 245521-04-001



EAST SERVICE AREA WATER AND SEWER EXTENSIONS

CITY OF MARTINSVILLE, INDIANA

ONE-LINE AND PANEL SCHEDULE

28

TOTAL SHEETS

SHEET NO.

