EXISTING TOPOGRAPHIC SYMBOLS SURVEY SYMBOLS SATELLITE DISH ACCESS GRATE BENCH MARK LOCATION AC AIR CONDITION UNIT SIGN TRAFFIC CONTROL POINT ANTENNA SIG SIGNAL CONTROL CABINET MONUMENT IRON FOUND AUTO SPRINKLER CONNECTION SOIL BORING CAST IRON MONUMENT BARRICADE PERMANENT SIREN **EXISTING TOPOGRAPHIC LINES** 8 BASKETBALL POST TELEPHONE BOOTH C TILE INLET RETAINING WALL BIRD FEEDER TILE OUTLET FENCE FENCE-DECORATIVE BOLLARD TILE RISER GUARD RAIL BUSH TRAN TRANSFORMER-ELECTRIC TREE LINE BUSH LINE CATCH BASIN RECTANGULAR CASTING TREE-CONIFEROUS \bigcirc CATCH BASIN CIRCULAR CASTING TREE-DEAD SURVEY LINES CURB STOP TREE-DECIDIOUS CONTROLLED ACCESS (CO) CLEAN OUT TREE STUMP BOUNDARY ● CLVT CULVERT END TRAFFIC ARM BARRIER CENTERLINE DRINKING FOUNTAIN → TRAFFIC SIGNAL EXISTING EASEMENT LINE DOWN SPOUT PROPOSED EASEMENT LINE TRASH CAN EXISTING LOT LINE UTILITY MARKER U PROPOSED LOT LINE FIRE HYDRANT M VALVE EXISTING RIGHT-OF-WAY FLAG POLE VALVE POST INDICATOR PROPOSED RIGHT-OF-WAY SETBACK LINE FLARED END / APRON VALVE VAULT \bowtie SECTION LINE (V) FUEL PUMI VENT PIPE QUARTER LINE ∰ GRILI WATER SPIGOT SIXTEENTH LINE TEMPORARY EASEMENT GUY WIRE ANCHOR WELL **EXISTING UTILITY LINES** WETLAND DELINEATED MARKER H HANDHOLE WETLAND HANDICAP SPACE FORCEMAIN IRRIGATION SPRINKLER HEAD WW WET WELL SANITARY SEWER SANITARY SERVICE IVB IRRIGATION VALVE BOX YARD HYDRANT STORM SEWER LIFT STATION CONTROL PANEL STORM SEWER DRAIN TILE LIFT STATION WATERMAIN PROPOSED TOPOGRAPHIC SYMBOLS WATER SERVICE ☆ LIGHT POLE MAILBOX PROPOSED UTILITY LINES CLEANOUT © MANHOLE-COMMUNICATION MANHOLE FORCEMAIN MANHOLE-ELECTRIC Œ LIFT STATION SANITARY SEWER (G) MANHOLE-GAS STORM SEWER CIRCULAR CASTING SANITARY SERVICE MANHOLE-HEAT STORM SEWER \oplus STORM SEWER RECTANGULAR CASTING STORM SEWER DRAIN TILE (§) MANHOLE-SANITARY SEWER STORM SEWER FLARED END / APRON WATERMAIN MANHOLE-STORM SEWER (D) STORM SEWER OUTLET STRUCTURE WATER SERVICE (I) MANHOLE-UTILITY PIPE CASING STORM SEWER OVERFLOW STRUCTURE MANHOLE-WATER W CURB BOX **GRADING INFORMATION** M METER FIRE HYDRANT ORDER MICROPHONE A WATER VALVE ---952----EXISTING CONTOUR MINOR PARKING METER ___950-____ WATER REDUCER EXISTING CONTOUR MAJOR _₉₅₂___ PAVEMENT MARKING PROPOSED CONTOUR MINOR WATER BEND PROPOSED CONTOUR MAJOR 950 PEDESTAL-COMMUNICATION C WATER TEE PROPOSED GRADING LIMITS / SLOPE LIMITS PEDESTAL-ELECTRIC E WATER CROSS $\times 953.53$ × STA:5+67.19 PROPOSED SPOT ELEVATION ОН PEDESTRIAN PUSH BUTTON RISE:RUN (SLOPE) WATER SLEEVE HATCH PATTERNS PICNIC TABLE WATER CAP / PLUG POLE-UTILITY Ø RIP RAP BITUMINOUS DRAINAGE FLOW POST GRAVEL ŧΗ TRAFFIC SIGNS * RAILROAD SIGNAL POLE CONCRETE REGULATION STATION GAS 7533 SUNWOOD DR NW SUITE 206

EXISTING PRIVATE UTILITY LINES

EXISTING UTILITY INFORMATION SHOWN ON THIS PLAN HAS BEEN PROVIDED BY THE UTILITY OWNER. THE CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS PRIOR TO COMMENCING CONSTRUCTION AS REQUIRED BY STATE IAW. NOTIFY GOPHER STATE ONE CALL, 1-800-252-1166 OR

THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY LEVEL D UNLESS OTHERWISE NOTED. THIS UTILITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF CLASCE 38-02, ENTITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF

F	— F ———	F F -	UNDERGROUND FIBER OPTIC
— Е —	— Е ——	Е — Е —	UNDERGROUND ELECTRIC
——— G ——	— G ———	G G -	UNDERGROUND GAS
— с —	— c ——	с — с –	UNDERGROUND COMMUNICATION
——— OE -	—— OE —	—— OE —	OVERHEAD ELECTRIC
—— ос -	— ос –	— ос —	OVERHEAD COMMUNICATION
OU -	—— OU —	OU	OVERHEAD UTILITY

UTILITIES IDENTIFIED WITH A QUALITY LEVEL OTHER THAN D:

LINE TYPES FOLLOW THE FORMAT: UTILITY TYPE - QUALITY LEVEL UTILITY QUALITY LEVEL (A,B,C,D) DEFINITIONS CAN BE FOUND IN CI/ASCE 38-02.

UTILITY QUALITY LEVELS:

LEVEL D - INFORMATION COMES SOLELY FROM EXISTING UTILITY RECORDS.

LEVEL C - SURVEYING ABOVE GROUND UTILITY FACILITIES, SUCH AS MANHOLES, VALVE BOXES, ETC; AND CORRELATING THIS INFORMATION WITH EXISTING UTILITY RECORDS.

LEVEL B - THE USE OF SURFACE GEOPHYSICAL TECHNIQUES TO DETERMINE THE EXISTENCE AND HORIZONTAL POSITION OF UNDERGROUND

LEVEL A - THE USE OF NONDESTRUCTIVE DIGGING EQUIPMENT AT HORIZONTAL AND VERTICAL POSITION OF UNDERGROUND UTILITIES, AS WELL AS THE TYPE, SIZE, CONDITION, MATERIAL, AND OTHER CHARACTERISTICS.

ABBREVIATIONS

A	ALGEBRAIC DIFFERENCE	GRAV	GRAVEL	RT	RIGHT
ADJ	ADJUST	GU	GUTTER	SAN	SANITARY SEWER
ALT	ALTERNATE	GV	GATE VALVE	SCH	SCHEDULE
B-B	BACK TO BACK	HDPE	HIGH DENSITY POLYETHYLENE	SERV	SERVICE
BIT	BITUMINOUS	HH	HANDHOLE	SHLD	SHOULDER
BLDG	BUILDING	HP	HIGH POINT	STA	STATION
BMP	BEST MANAGEMENT PRACTICE	HWL	HIGH WATER LEVEL	STD	STANDARD
BR	BEGIN RADIUS	HYD	HYDRANT	STM	STORM SEWER
BV	BUTTERFLY VALVE	I	INVERT	TC	TOP OF CURB
CB	CATCH BASIN	K	CURVE COEFFICIENT	TE	TEMPORARY EASEMENT
C&G	CURB AND GUTTER	L	LENGTH	TEMP	TEMPORARY
CIP	CAST IRON PIPE	LO	LOWEST OPENING	TNH	TOP NUT HYDRANT
CIPP	CURED-IN-PLACE PIPE	LP	LOW POINT	TP	TOP OF PIPE
CL	CENTER LINE	LT	LEFT	TYP	TYPICAL
CL.	CLASS	MH	MANHOLE	VCP	VITRIFIED CLAY PIPE
CMP	CORRUGATED METAL PIPE	MIN	MINIMUM	VERT	VERTICAL
C.O.	CHANGE ORDER	MR	MID RADIUS	VPC	VERTICAL POINT OF CURVE
COMM	COMMUNICATION	NIC	NOT IN CONTRACT	VPI	VERTICAL POINT OF INTERSECTION
CON	CONCRETE	NMC	NON-METALLIC CONDUIT	VPT	VERTICAL POINT OF TANGENT
CSP	CORRUGATED STEEL PIPE	NTS	NOT TO SCALE	WM	WATERMAIN
CLVT	CULVERT	NWL	NORMAL WATER LEVEL		
DIA	DIAMETER	OHW	ORDINARY HIGH WATER LEVEL		
DIP	DUCTILE IRON PIPE	PC	POINT OF CURVE	AC	ACRES
DWY	DRIVEWAY	PCC	POINT OF COMPOUND CURVE	CF	CUBIC FEET
E	EXTERNAL CURVE DISTANCE	PE	PERMANENT EASEMENT	CV	COMPACTED VOLUME
ESMT	EASEMENT	PED	PEDESTRIAN, PEDESTAL	CY	CUBIC YARD
ELEC	ELECTRIC	PERF	PERFORATED PIPE	EA	EACH
ELEV	ELEVATION	PERM	PERMANENT	EV	EXCAVATED VOLUME
EOF	EMERGENCY OVERFLOW	PI	POINT OF INTERSECTION	LB	POUND
ER	END RADIUS	PL	PROPERTY LINE	LF	LINEAR FEET
EX	EXISTING	PRC	POINT OF REVERSE CURVE	LS	LUMP SUM
FES	FLARED END SECTION	PT	POINT OF TANGENT	LV	LOOSE VOLUME
F-F	FACE TO FACE	PVC	POLYVINYL CHLORIDE PIPE	SF	SQUARE FEET
FF	FINISHED FLOOR	PVMT	PAVEMENT	SV	STOCKPILE VOLUME
F&I	FURNISH AND INSTALL	R	RADIUS	SY	SQUARE YARD
FM	FORCEMAIN	RCP	REINFORCED CONCRETE PIPE		
FO	FIBER OPTIC	RET	RETAINING		
F.O.	FIELD ORDER	R/W	RIGHT-OF-WAY		
GRAN	GRANULAR	RSC	RIGID STEEL CONDUIT		

CONTRACTOR: Minger Construction RECORD PLAN

ZGN 12-22-2020





Phone: (763) 433-2851 nil: Ramsey@bolton-menk.com www.bolton-menk.com

KFB	NO.	REVISION	DATE	ELK RIVER LANDFILL INC.	SHEET
VN KGA				WASTE WATER FORCEMAIN	2
KFB				LEGEND	OF
T PROJ. NO. 216 115896	\vdash			LEGEND	46