### **QUANTITY & COST ESTIMATE**

EXCAVATION 7985 C.Y.    CURR DILET 01-38   6	ITEM	QUANTITY	UNIT	UNIT PRICE	COST	BONDABLE
1935   C.Y.	CLEARING AND GRUBBING		ACRES			
CLUB NLET 31-3B						
CARD   DILET DI-38	EMBANKMENT	19035	C.Y.			
1	·			·		
### 8 EACH ### 80 EACH ### 800000 1600000	CURB INLET DI-3B	6	EACH	2500.00	15000.00	
MONHELL MI-   MORPLAST ADS CUSTOM BASSINS   6   EACH   190,00   900,00	CURB INLET DI-1	1 .	EACH	1500.00	1500.00	
MONHELL MI-   MORPLAST ADS CUSTOM BASSINS   6   EACH   190,00   900,00						
MONSTELL MH						
NYPLAST ASS CUSTOM BASSINS	MANHOLE MH-	8	EACH	2000.00	16000.00	
-IN. CDMCRETE PIPE, CLASS III	MANHOLE MH-		EACH			
-TN. CENCRETE PIPE, CLASS IV  15-IN. HEPE 15-IN. HEPE 12-IN. HUPE 300 LIN. FT. 2000 6-340.00  -IN. CM. CULVERT -IN. FT.  BEDX CULVERT -IN. CM. CULVERT -IN. FT.  BEDX CULVERT -IN. CMR SUM -IN. FT.  BEDX CULVERT -IN. CMR SECTION -IN. SUBBASE MATERIAL -IN. GAT SECTION -IN. FT.  BEDX CULVERT -IN. GAT SECTION -IN. SUBBASE MATERIAL -IN. GAT SECTION -IN. GAT SECTION -IN. FTIN. GAT SECTION -IN. G	NYOPLAST ADS CUSTOM BASINS	6	EACH	150.00	900.00	
-TIN. CINCRETE PIPE, CLASS IV  15-IN. HIPE 15-IN. HIPE 12-IN. HIBPE 200 LIN. FT. 2000 6-340.00  -TIN. CM. CULVERT -IN. FT.  BEX CULVERT -IN. CM. CULVERT -IN. FT.  BEX CULVERT -IN. CM. CULVERT -IN. FT.  BEX CULVERT -IN. FT.  ST.  ST.  ST.  ST.  ST.  ST.  ST.						
13-1N, HIPPE   340	-IN. CONCRETE PIPE, CLASS III		LIN. FT.			
12-1N, HUPE	-IN. CONCRETE PIPE, CLASS IV		LIN. FT.			
-IN CM CULVERT	15-IN. HDPE	317	LIN, FT,	20.00	6340.00	
-IN CH CULVERT	12-IN. HDPE	300	LIN, FT.	18.00	5400.00	
-IN CM CULVERT		<del></del>	`			
-IN CM CULVERT  LUMP SUM  PAVED DITCH  LIN. FT.  RIPRAP - CLASS  SUBDED SVALE  -IN. CONCRETE ENDVALL EV-  EACH  -IN. CONCRETE ENDVALL EV-  EACH  -IN. END SECTION ES-  BEACH  LIN. FT.  CURB & GUTTER (ROLL CURB)  HEADER CURB & GUTTER (ROLL CURB)  S.Y.  GRAVEL SHOULDER  SUBFACE TREATHENT  S.Y.  SUBFACE TREATHENT  S.Y.  SOUND	-IN, C.M. CULVERT		LIN. FT.			
BDX CULVERY  PAVED DITCH  LIM FT.  RIPRAP - CLASS  SEF.  SIDDED SVALE  -IN. CONCRETE ENDVALL EV-  -IN. CONCRETE ENDVALL EV-  -IN. END SECTION ES-  EACH  -IN. FT.  CURB & GUTTER CG-  CURB & GUTTER CG-  CURB & GUTTER (ROLL CURB)  1424  LIN. FT.  15.00  21360.00  VALLEY GUTTER  GRAVEL BASE  SY.  SY.  SY.  SY.  SY.  SY.  SY.  S		**************************************	<del></del>			
BOX CULVERT  LUMP SUM  LIN FT.  RIPRAP - CLASS  S.F.  SIDDED SWALE  -IN. CONCRETE ENDVALL EV-  EACH  -IN. END SECTION ES-  EACH  LIN FT.  LIN FT.  LIN FT.  EACH  LIN FT.  15.00 2136,000  WALEY GUTTER CG-  CURP & GUTTER CG-  CURP & GUTTER CG-  SY.  SCRAVEL SHOLL DER  GRAVEL BASE  GRAVEL SHOLL DER  SY.  SY.  SURFACE TREATMENT  2-IN. BIT. CUNC. TYPE SH. 9.5A 1130 S.Y.  2-IN. BIT. CUNC. TYPE SH. 9.5A 1130 S.Y.  3-IN. SUBBASE MATERIAL 235 C.Y.  3-IN. SUBBASE MATERIAL 477 C.Y.  3-IN. SUBBASE MATERIAL 1302 LIN FT.  SIEWALK 1300 3906,000  TRAFFIC BARRICADE  BY WATER LINE  WATER LINE  WATER LINE  WATER LINE  WATER LINE  BY WATER LINE  WATER LINE  SY.  BLOW OFFS WYABLIES  BLOW OFFS WYABL						
BUN CULVERT					. `	·
BDX CULVERT						
PAVED BITCH  RIPRAP - CLASS  S.F.  SDDDED SWALE  S.Y.  -IN. CONCRETE ENDWALL EV-  EACH  -IN. END SECTION ES-  EACH  EACH  -IN. FT.  EACH  LIN. FT.  EACH  LIN. FT.  EACH  LIN. FT.  EACH  CURB & GUTTER CG-  CURB & GUTTER (ROLL DURB)  VALLEY GUTTER  EACH  GRAVEL RST  S.Y.  SURFACE TREATMENT  2-IN. BIT. CONC.: TYPE SN 9.5A  1130  S.Y.  SURFACE TREATMENT  2-IN. BIT. CONC.: TYPE SN 9.5A  1130  S.Y.  SOUR SUBBASE MATERIAL  1302  LIN. FT.  SIDEVALK  1302  LIN. FT.  SOUR 3906.000  TRAFFIC BARRICADE  8' WATER LINE  409  LIN. FT.  ST.  FIRE HYDRANT ASSEMBLIES  BLOW GFS WYVAULT, FRAME & COVER  SAMPLING MANHOLE/PORT  EACH  STEINMANT SEVER-SIR 35  LIN. FT.  250.00  20000.00  SAMPLING MANHOLE WYFRAME & COVER  BACH  BACH  2000.00  20000.00  SAMPLING MANHOLE WYFRAME & COVER  BACH  BACH  BACH  2000.00  20000.00  20776.00  102 CONTINGENCY  20776.00  20776.00  20776.00  20776.00	DEV. OUR VEDT		11005 0100			
RIPRAP - CLASS	BUA CULVEKI	**************************************	LUMP SUM			<u> </u>
RIPRAP - CLASS						
SUDDED SWALE  -IN. CONCRETE ENDWALL EV-  EACH  -IN. END SECTION ES-  EACH  EACH  CURB & GUTTER CG-  CURB & GUTTER CG-  CURB & GUTTER CF-  CURB & GUTTER CF-  CURB & GUTTER CF-  CURB & GUTTER CF-  CONTROL OF CRAMPORT CONTROL ES-  GRAVEL BASE  S.Y.  GRAVEL SHOULDER  SURFACE TREATMENT  2-IN. BIT. CONC. TYPE SM 9.5A  1130 S.Y.  3.00 9040.00  S.Y.  6-IN. SUBBASE MATERIAL  235 C.Y.  30.00 7050.00  6-IN. SUBBASE MATERIAL  1302 LIN. FT.  3000 14310.00  TRAFFIC BARRICADE  BY MATER LINE  -IN. ENT. SECOND 10225.00  FRAFFIC BARRICADE  BY WATER LINE  409 LIN. FT.  EACH  -IN. FT.  -IN. GATE VALVES, W/VAULT, FRAME & COVER  BACH  -IN. GATE VALVES, W/VAULT, FRAME & COVER  SAMPLING MANHOLE W/FRAME & COVER  STANDARD MANHOLE PORT  LUMP SUM N/A  STORMWATER MANAGEMENT	PAVED DITCH		LIN. FT.			<u> </u>
SIDDED SWALE  -IN. CONCRETE ENDWALL EV-  EACH  -IN. END SECTION ES-  EACH  CURB & GUTTER CG-  CURB & GUTTER CROLL CURB)  1424  LIN. FT. 15.00 21360.00  2136				· .		
-IN. CDNCRETE ENDVALL EV- EACH  -IN. END SECTION ES- EACH  -IN. ET 15:00 21360:00  VALLEY GUTTER EACH  GRAVEL BASE S.Y.  GRAVEL SHOULDER  SLAY.	RIPRAP - CLASS		S.F.			
-IN. CONCRETE ENDVALL EV- EACH  -IN. END SECTION ES- EACH  -IN. ET 15:00 21360.00  VALLEY GUTTER EACH GROLL CURB) 1424 LIN. FT. 15:00 21360.00  VALLEY GUTTER EACH GROLL CURB S.Y. S.Y. S.Y. S.Y. S.Y. S.Y. S.Y. S.Y						
-IN. END SECTION ES-  -IN. END SECTION ES-  -IN. END SECTION ES-  -IN. ETC. CURB & GUTTER CG-  CURB & GUTTER (ROLL CURB) 1424 LIN. FT. 15.00 21360.00 VALLEY GUTTER  GRAVEL BASE S.Y.  GRAVEL BASE S.Y.  GRAVEL SHOULDER  SURFACE TREATMENT S.Y.  2-IN. BIT. CURC. TYPE SN 9.5A 1130 S.Y. 8.00 9040.00	SODDED SWALE		S.Y.			
-IN. END SECTION ES-  -IN. END SECTION ES-  -IN. END SECTION ES-  -IN. ETC. CURB & GUTTER CG-  CURB & GUTTER (ROLL CURB) 1424 LIN. FT. 15.00 21360.00 VALLEY GUTTER  GRAVEL BASE S.Y.  GRAVEL BASE S.Y.  GRAVEL SHOULDER  SURFACE TREATMENT S.Y.  2-IN. BIT. CURC. TYPE SN 9.5A 1130 S.Y. 8.00 9040.00						
HEADER CURB & GUTTER CG—  CURB & GUTTER (RBLL CURB)  1424 LIN. FT.  15.00 21360.00  VALLEY GUTTER  GRAVEL SHOULDER  SURFACE TREATMENT  2-IN. BIT. CONC. TYPE SM 9.5A 1130 S.Y.  6-IN. SUBBASE MATERIAL 235 C.Y. 30.00 7050.00  SIDEWALK 1302 LIN. FT. 30.00 39060.00  TRAFFIC BARRICADE  8' WATER LINE  409 LIN. FT. 25.00 10225.00  FIRE HYDRANT ASSEMBLIES  BLOW OFFS W/VAULT, FRAME & COVER  PIN. GATE VALVES, W/VAULT, FRAME & COVER  8' SANITARY SEVER-SDR 35 1363 LIN. FT. 25.00 34075.00  STANDARD MANHOLE P/PRT  AS-BUILT PLANS  LUMP SUM N/A  STORMWATER MANAGEMENT  LUMP SUM N/A  STORMWATER MANAGEMENT  LUMP SUM N/A  STORMWATER MANAGEMENT  LUMP SUM N/A  LUMP SUM N/A  20776.000  20776.000	-IN. CONCRETE ENDWALL EW-		EACH	·		
HEADER CURB & GUTTER CG—  CURB & GUTTER (RBLL CURB)  1424 LIN. FT.  15.00 21360.00  VALLEY GUTTER  GRAVEL SHOULDER  SURFACE TREATMENT  2-IN. BIT. CONC. TYPE SM 9.5A 1130 S.Y.  6-IN. SUBBASE MATERIAL 235 C.Y. 30.00 7050.00  SIDEWALK 1302 LIN. FT. 30.00 39060.00  TRAFFIC BARRICADE  8' WATER LINE  409 LIN. FT. 25.00 10225.00  FIRE HYDRANT ASSEMBLIES  BLOW OFFS W/VAULT, FRAME & COVER  PIN. GATE VALVES, W/VAULT, FRAME & COVER  8' SANITARY SEVER-SDR 35 1363 LIN. FT. 25.00 34075.00  STANDARD MANHOLE P/PRT  AS-BUILT PLANS  LUMP SUM N/A  STORMWATER MANAGEMENT  LUMP SUM N/A  STORMWATER MANAGEMENT  LUMP SUM N/A  STORMWATER MANAGEMENT  LUMP SUM N/A  LUMP SUM N/A  20776.000  20776.000						
HEADER CURB & GUTTER CG—  CURB & GUTTER (RBLL CURB)  1424 LIN. FT.  15.00 21360.00  VALLEY GUTTER  GRAVEL BASE  S.Y.  GRAVEL SHDULDER  SURFACE TREATMENT  2-IN. BIT. CONC. TYPE SH 9.5A 1130 S.Y. 8.00 9040.00  -IN. BIT. CONC. TYPE S-  G-IN. SUBBASE MATERIAL 235 C.Y. 30.00 7050.00  -IN. BIT. CURC. TYPE S-  G-IN. SUBBASE MATERIAL 477 C.Y. 30.00 14310.00  SIDEWALK 1302 LIN. FT. 25.00 39060.00  TRAFFIC BARRICADE EACH  B' WATER LINE 409 LIN. FT.  FIRE HYDRANT ASSEMBLIES 3 EACH 2000.00 6000.00  FIRE HYDRAT ASSEMBLIES 3 EACH 2000.00 6000.00  FIRE HYDRAT ASSEMBLIES 404 EACH 2000.00 6000.00  BILOW DFFS V/VAULT, FRAME & COVER EACH 2000.00 1500.00  B' SANITARY SEVER-SDR 35 1363 LIN. FT. 25.00 34075.00  STANDARD MANHOLE V/FRAME & COVER EACH 2000.00 20000.00  STANDARD MANHOLE FRAME & COVER 10 EACH 2000.00 20000.00  STANDARD MANHOLE FRAME & COVER 10 EACH 2000.00 20000.00  STANDARD MANHOLE FRAME & COVER 10 EACH 2000.00 20000.00  STANDARD MANHOLE FRAME & COVER 10 EACH 2000.00 20000.00  STANDARD MANHOLE FRAME & COVER 10 EACH 2000.00 20000.00  STANDARD MANHOLE FRAME & COVER 10 EACH 2000.00 20000.00  STORMWATER MANAGEMENT LUMP SUM N/A 200776.00  STORMWATER MANAGEMENT LUMP SUM N/A 200776.00					***	
CURB & GUTTER	-IN. END SECTION ES-		EACH			,
CURR & GUTTER						
CURR & GUTTER			·			
1424	HEADER CURB & GUTTER CG-		I IN. FT.			
VALLEY GUTTER GRAVEL BASE  GRAVEL SHOULDER  SURFACE TREATMENT  2-IN. BIT. CONC. TYPE SM 9.5A  1130  S.Y.  6-IN. SUBBASE MATERIAL  8-IN. SUBBASE MATERIAL  8-IN. SUBBASE MATERIAL  1302  1302  1302  1300  10025500  6000.00  6000.00  6000.00  6000.00  6000.00  6000.00  6000.00  10025500  100		1424	<del> </del>	15.00	21360.00	
GRAVEL BASE         S.Y.           GRAVEL SHOULDER         S.Y.           SURFACE TREATMENT         S.Y.           2-IN. BIT. CONC. TYPE SM 9.5A         1130           -IN. BIT. CONC. TYPE SN 9.5A         S.Y.           6-IN. SUBBASE MATERIAL         235           8-IN. SUBBASE MATERIAL         477           8-IN. SUBBASE MATERIAL         477           8-IN. SUBBASE MATERIAL         1302           1302         LIN. FT.           30.00         39066.00           TRAFFIC BARRICADE         EACH           8' WATER LINE         409           6' WATER LINE         LIN. FT.           5-IN. GATE LINE         LIN. FT.           8-IN. GATE VALVES, W/VAULT, FRAME & COVER         EACH           9-IN. GATE VALVES, W/VAULT, FRAME & COVER         EACH           8-IN. GATERIAL         EACH           8-IN. GATERIAL         EACH           8-IN. GATERIAL			<u> </u>	10.00	21000100	
SY   SY   SY   SY   SY   SY   SY   SY						
SURFACE TREATMENT 2-IN. BIT. CENC; TYPE SM 9.5A 1130 S.Y. 8.00 9040,00  -IN. BIT. CENC; TYPE SM 9.5A 1130 S.Y. 8.00 9040,00  -IN. BIT. CENC; TYPE SM 9.5A 1130 S.Y. 8.00 9040,00  B-IN. SUBBASE MATERIAL 235 C.Y. 30.00 7050.00  B-IN. SUBBASE MATERIAL 477 C.Y. 30.00 14310.00  SIDEWALK 1302 LIN. FT. 30.00 39060.00  TRAFFIC BARRICADE EACH 25.00 10225.00  FRAFFIC BARRICADE EACH 25.00 10225.00  FRAFFIC BARRICADE EACH 2000.00 6000.00  BY WATER LINE 409 LIN. FT. 25.00 10225.00  FIRE HYDRANT ASSEMBLIES 3 EACH 2000.00 6000.00  BLUW DIFS W/VAULT, FRAME & COVER EACH 3000.00 1500.00  -IN. GATE VALVES, W/VAULT, FRAME & COVER EACH 3000.00 1500.00  SY SANITARY SEVER-SDR 35 1363 LIN. FT. 25.00 34075.00  SY SANITARY SEVER-SDR 35 1363 LIN. FT. 25.00 34075.00  STANDARD MANHOLE W/FRAME & COVER EACH 2000.00 20000.00  STANDARD MANHOLE W/FRAME & COVER EACH 2000.00 20000.00  STANDARD MANHOLE FORT EACH 2000.00 20000.00  STANDARD MANHOLE FORT LUMP SUM 2500.00  STORMWATER MANAGEMENT LUMP SUM N/A  STORMWATER MANAGEMENT LUMP SUM N/A  207760.00  207760.00  207760.00	UNIT VEE DIGE		3.77			
SURFACE TREATMENT 2-IN. BIT. CUNC. TYPE SM 9.5A 1130 S.Y. 8.00 9040,00  -IN. BIT. CUNC. TYPE S - S.Y. 9.00 7050.00  8-IN. SUBBASE MATERIAL 235 C.Y. 30.00 7050.00  8-IN. SUBBASE MATERIAL 477 C.Y. 30.00 14310.00  SIDEWALK 1302 LIN. FT. 30.00 39060.00  TRAFFIC BARRICABE EACH 25.00 10225.00  6' WATER LINE 409 LIN. FT. 25.00 10225.00  6' WATER LINE LIN. FT. 25.00 10225.00  FIRE HYDRANT ASSEMBLIES 3 EACH 2000.00 6000.00  BLUW DIFFS W/VAULT, FRAME & COVER EACH 39-IN. GATE VALVES, W/VAULT, FRAME & COVER EACH 39-I	CDAVEL SHOULDED		SV .			
2-IN. BIT. CDNC. TYPE SM 9.5A 1130 S.Y. 8.00 9040.00  -IN. BIT. CDNC. TYPE S- S.Y. 30.00 7050.00  8-IN. SUBBASE MATERIAL 235 C.Y. 30.00 14310.00  SIDEWALK 1302 LIN. FT. 30.00 39060.00  TRAFFIC BARRICADE EACH 409 LIN. FT. 25.00 10225.00  6' WATER LINE 409 LIN. FT. 25.00 10225.00  FIRE HYDRANT ASSEMBLIES 3 EACH 2000.00 6000.00  FIRE HYDRANT ASSEMBLIES 3 EACH 2000.00 6000.00  BLOW DIFFS W/VAULT, FRAME & COVER EACH 750.00 1500.00  -IN. GATE VALVES, W/VAULT, FRAME & COVER EACH 2000.00 20000.00  SY SANITARY SEWER-SDR 35 1363 LIN. FT. 25.00 34075.00  STANDARD MANHOLE W/FRAME & COVER 10 EACH 2000.00 20000.00  SAMPLING MANHOLE/PORT EACH 2000.00 20000.00  STORMWATER MANAGEMENT LUMP SUM 2500.00  STORMWATER MANAGEMENT LUMP SUM N/A 20776.00  10% CONTINGENCY 20776.00			<del></del>			
-IN, BIT, CONC, TYPE S- 6-IN, SUBBASE MATERIAL 235 C.Y. 30.00 7050.00 8-IN, SUBBASE MATERIAL 477 C.Y. 30.00 14310.00 SIDEWALK 1302 LIN, FT. 30.00 39060.00  TRAFFIC BARRICADE 8' WATER LINE 409 LIN, FT. 25.00 10225.00 6' WATER LINE 409 LIN, FT. 25.00 10225.00  FIRE HYDRANT ASSEMBLIES 3 EACH 2000.00 6000.00 BLOW GIFFS W/WAULT, FRAME & COVER 2-IN, GATE VALVES, W/VAULT, FRAME & COVER 2-IN, GATE VALVES, W/VAULT, FRAME & COVER 8' SANITARY SEWER-SDR 35 1363 LIN, FT. 25.00 34075.00  STANDARD MANHOLE W/FRAME & COVER 10 EACH SAMPLING MANHOLE/PORT EACH STORMWATER MANAGEMENT LUMP SUM 2500.00  STORMWATER MANAGEMENT LUMP SUM N/A  20776.00  10% CONTINGENCY 20776.00		1120	<del> </del>		0040.00	
6-IN. SUBBASE MATERIAL 235 C.Y. 30.00 7050.00 8-IN. SUBBASE MATERIAL 477 C.Y. 30.00 14310.00 SIDEWALK 1302 LIN. FT. 30.00 39060.00  TRAFFIC BARRICADE EACH 87 WATER LINE 409 LIN. FT. 25.00 10225.00 6' WATER LINE LINE LINE LIN. FT. 25.00 10225.00  FIRE HYDRANT ASSEMBLIES 3 EACH 2000.00 6000.00 BLOW GIFFS W/VAULT, FRAME & COVER EACH 750.00 1500.00 -IN. GATE VALVES, W/VAULT, FRAME & COVER EACH 750.00 24075.00  8' SANITARY SEVER-SDR 35 1363 LIN. FT. 25.00 34075.00  STANDARD MANHOLE W/FRAME & COVER 10 EACH 2000.00 20000.00  SAMPLING MANHOLE/PORT EACH 2000.00 20000.00  SAMPLING MANHOLE/PORT EACH 2000.00 20000.00  STORMWATER MANAGEMENT LUMP SUM N/A 20776.00  10% CONTINGENCY 20776.00		1130	<del> </del>	8.00	9040,00	
8-IN. SUBBASE MATERIAL 477 C.Y. 30.00 14310.00  SIDEWALK 1302 LIN. FT. 30.00 39060.00  TRAFFIC BARRICADE  8' WATER LINE 409 LIN. FT. 25.00 10225.00  6' WATER LINE 409 LIN. FT. 25.00 10225.00  FIRE HYDRANT ASSEMBLIES 3 EACH 2000.00 6000.00  BLOW DFFS W/VAULT, FRAME & COVER EACH 750.00 1500.00  -IN. GATE VALVES, W/VAULT, FRAME & COVER EACH 750.00 1500.00  8' SANITARY SEWER-SDR 35 1363 LIN. FT. 25.00 34075.00  STANDARD MANHOLE W/FRAME & COVER 10 EACH 2000.00 20000.00  SAMPLING MANHOLE/PORT EACH 2000.00 20000.00  STORMWATER MANAGEMENT LUMP SUM N/A  STORMWATER MANAGEMENT LUMP SUM N/A  207760.00  10% CONTINGENCY 20776.00		225	<del> </del>		705000	
1302						
TRAFFIC BARRICADE 8' WATER LINE 409 LIN. FT. 25.00 10225.00 6' WATER LINE LIN. FT.  FIRE HYDRANT ASSEMBLIES 3 EACH 2000.00 6000.00 BLDW DFFS W/VAULT, FRAME & COVER S-IN. GATE VALVES, W/VAULT, FRAME & COVER 2 EACH 750.00 1500.00 -IN. GATE VALVES, W/VAULT, FRAME & COVER 8' SANITARY SEWER-SDR 35 1363 LIN. FT. 25.00 34075.00 STANDARD MANHOLE W/FRAME & COVER 10 EACH 2000.00 20000.00 SAMPLING MANHOLE/PORT EACH AS-BUILT PLANS LUMP SUM 2500.00 STORMWATER MANAGEMENT LUMP SUM N/A  STORMWATER MANAGEMENT LUMP SUM N/A 20776.00 10% CONTINGENCY 20776.00		<del> </del>	<del> </del>			
B' WATER LINE	SIDEWALK	1302	LIN. FT.	30,00	39060.00	
B' WATER LINE						
6 WATER LINE LIN. FT.   LIN. FT.   6 WATER LINE   LIN. FT.   6 WATER LINE   LIN. FT.   6 WATER LINE   LIN. FT.   7 STORMWATER MANAGEMENT   LUMP SUM   7 STORMWA			<del> </del>			
FIRE HYDRANT ASSEMBLIES 3 EACH 2000.00 6000.00  BLOW DFFS W/VAULT, FRAME & CDVER EACH 750.00 1500.00  -IN GATE VALVES, W/VAULT, FRAME & CDVER EACH 750.00 1500.00  -IN GATE VALVES, W/VAULT, FRAME & CDVER EACH 750.00 1500.00  B' SANITARY SEWER-SDR 35 1363 LIN FT. 25.00 34075.00  STANDARD MANHOLE W/FRAME & CDVER 10 EACH 2000.00 20000.00  SAMPLING MANHOLE/PORT EACH 2500.00  AS-BUILT PLANS LUMP SUM 2500.00  STORMWATER MANAGEMENT LUMP SUM N/A 207760.00  10% CONTINGENCY 207760.00		409		25.00	10225.00	
BLOW DFFS W/VAULT, FRAME & COVER 3-IN. GATE VALVES, W/VAULT, FRAME & COVER 2 EACH 750.00 1500.00  -IN. GATE VALVES, W/VAULT, FRAME & COVER EACH  8' SANITARY SEVER-SDR 35 1363 LIN. FT. 25.00 34075.00  STANDARD MANHOLE W/FRAME & COVER 10 EACH 2000.00 20000.00  SAMPLING MANHOLE/PORT EACH  AS-BUILT PLANS LUMP SUM 2500.00  STORMWATER MANAGEMENT LUMP SUM N/A  207760.00  10% CONTINGENCY 20776.00	6" WATER LINE		LIN. FT.			
BLDW DFFS W/VAULT, FRAME & COVER 8-IN. GATE VALVES, W/VAULT, FRAME & COVER 2 EACH 750.00 1500.00  -IN. GATE VALVES, W/VAULT, FRAME & COVER EACH  8' SANITARY SEWER-SDR 35 1363 LIN. FT. 25.00 34075.00  STANDARD MANHOLE W/FRAME & COVER 10 EACH 2000.00 20000.00  SAMPLING MANHOLE/PORT EACH  AS-BUILT PLANS LUMP SUM 2500.00  STORMWATER MANAGEMENT LUMP SUM N/A  207760.00  10% CONTINGENCY 20776.00						
3-IN. GATE VALVES, W/VAULT, FRAME & COVER 2 EACH 750.00 1500.00  -IN. GATE VALVES, W/VAULT, FRAME & COVER EACH EACH EACH EACH EACH EACH EACH EACH	FIRE HYDRANT ASSEMBLIES	3	EACH	2000.00	6000.00	
-IN, GATE VALVES, W/VAULT, FRAME & COVER EACH	BLOW OFFS W/VAULT, FRAME & COVER		EACH			
8' SANITARY SEWER-SDR 35 1363 LIN. FT. 25.00 34075.00  STANDARD MANHOLE W/FRAME & COVER 10 EACH 2000.00 20000.00  SAMPLING MANHOLE/PORT EACH  AS-BUILT PLANS LUMP SUM 2500.00  STORMWATER MANAGEMENT LUMP SUM N/A  207760.00  10% CONTINGENCY 20776.00	3-IN. GATE VALVES, W/VAULT, FRAME & COVE	₹ 2	EACH	750.00	1500.00	
STANDARD MANHOLE W/FRAME & COVER 10 EACH 2000.00 20000.00  SAMPLING MANHOLE/PORT EACH  AS-BUILT PLANS LUMP SUM 2500.00  STORMWATER MANAGEMENT LUMP SUM N/A  207760.00  10% CONTINGENCY 20776.00	-IN. GATE VALVES, W/VAULT, FRAME & COVER		EACH		,	
STANDARD MANHOLE W/FRAME & COVER 10 EACH 2000.00 20000.00  SAMPLING MANHOLE/PORT EACH  AS-BUILT PLANS LUMP SUM 2500.00  STORMWATER MANAGEMENT LUMP SUM N/A  207760.00  10% CONTINGENCY 20776.00						
STANDARD MANHOLE W/FRAME & COVER 10 EACH 2000.00 20000.00  SAMPLING MANHOLE/PORT EACH  AS-BUILT PLANS LUMP SUM 2500.00  STORMWATER MANAGEMENT LUMP SUM N/A  207760.00  10% CONTINGENCY 20776.00						
STANDARD MANHOLE W/FRAME & COVER 10 EACH 2000.00 20000.00  SAMPLING MANHOLE/PORT EACH  AS-BUILT PLANS LUMP SUM 2500.00  STORMWATER MANAGEMENT LUMP SUM N/A  207760.00  10% CONTINGENCY 20776.00						
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SIGNED

**GENERAL NOTES** 

All construction methods and materials shall conform to the Construction Standards and Specifications of Roanoke County and/or the Western Virginia Water Authority and Department of Transportation.

The contractor or developer is required to notify the Roanoke County Engineering Division in writing at least three (3) days prior to any construction, including, but not limited to the following:

- A. Installation of approved erosion control devices
- B. Clearing and grubbing C. Subgrade excavation
- D. Installing storm sewers or culverts
- E. Setting curb and gutter forms
- F. Placing curb and autter G. Placing other concrete
- H. Placing gravel base
- I. Placing any roadway surface J. Installing water lines
- K. Installing sanitary sewer lines

A pre-construction conference should be scheduled with the Roanoke County Engineering Division, to be held at least one (1) day prior to any construction.

Measures to control erosion and siltation must be provided prior to plan approval. Plan approval in no way relieves the developer or contractor of the responsibilities contained within the erosion and siltation control policies.

A permit must be obtained from the V.D.O.T. Residency Office, Roanoke County, prior to construction in the highway right-of-way.

Plan approval does not guarantee issuance of any permits by V.D.O.T.

An approved set of plans and all permits must be available at the construction site.

Field construction shall honor proposed drainage divides as shown

All unsuitable material shall be removed from the construction limits of the roadway before placing embankment.

Pavement sections on approved plans are based on a minimum CBR of 7 CBR tests are to be performed by the engineer and submitted to V.D.O.T. and to the Roanoke County Engineering Division prior to placement. CBR values < 7 will require revised pavement sections.

All roadside ditches or grades of more than 5 percent shall be paved with cement concrete to the limits as indicated on the plans and as required at the field inspection.

Location of guard rails shall be determined at a joint field inspection by the County and V.D.O.T.

All springs shall be capped and piped to the nearest storm sewer or natural watercourse. The pipe shall be 6 inch minimum diameter and conform to V.D.O.T. Standard SB-1.

Standard street and traffic control signs shall be erected at each intersection by the developer prior to final street acceptance.

Construction debris shall be containerized in accordance with the Virginia Litter Control Act. No less than one litter receptacle shall be provided on site.

The contractor shall provide adequate means of cleaning mud from trucks and/or other equipment prior to entering public streets. It is the contractors responsibility to insure that the streets are in a clean, mud and dust free condition at all times.

The developer and/or contractor shall supply all utility companies with copies of approved plans, advising them that all grading and installation shall conform to approved plans.

Contractors shall notify utilities of proposed construction at least two (2), but not more than ten (10) working days in advance. Area public utilities may be notified thru "Miss Utility": 1—800—552—7001.

The developer or contractor shall supply the County and the Western Virginia Water Authority with correct As—Built plans before final acceptance.

All work shall be subject to inspection by Roanoke County, the Western Virginia Water Authority and V.D.O.T. inspectors.

Field corrections shall be approved by the Roanoke County Engineering Division and/or the Western Virginia Water Authority prior to such construction, and design

100 year floodway and floodplain information shall be shown where

Grade stakes shall be set for all curb and gutter, culvert, sanitary

sewer and storm sewer.

NO CONSTRUCTION OR FIELD CHANGES SHALL OCCUR WITHOUT THE APPROVAL OF THE CONSULTING ENGINEER AND ROANOKE COUNTY.

# **SHEET INDEX:**

**COVER SHEET** 

**OVERALL PHASING & OPEN SPACE** 

**EXISTING CONDITIONS, DEMOLITION & INITIAL E&S PLAN** 

OVERALL PLAN FOR PHASE II

**DIMENSIONAL & UTILITY PLAN - ROAD E** 

GRADING PLAN & PHASED E&S CONTROL PLAN - ROAD E DIMENSIONAL AND UTILITY PLAN - ROAD F

GRADING PLAN & PHASED E&S CONTROL PLAN - STREET F

**ROAD PROFILES & DETAILS** 

UTILITY PROFILES - ROAD E

**UTILITY PROFILES - ROAD F & ROOF DRAIN COLLECTOR** SANITARY SEWER PROFILES - ROAD F

**EROSION & SEDIMENT CONTROL NARRATIVE & DETAILS** 

**EROSION & SEDIMENT CONTROL DETAILS** 

WATERLINE DETAILS

C16 SANITARY SEWER DETAILS

### **SEWER NOTES**

All sanitary sewer facilities shall be installed according to the Western Virginia Water Authority Design and Construction Standards.

A minimum cover of three (3) feet is required over proposed lines.

Contractor shall be responsible for locating and uncovering all manholes after paving. Manhole tops shall be adjusted to grade

All existing utilities may not be shown or may not be shown in their exact location. The contractor shall comply with (State Water Works Regulations, Section 12.05.03, where lines cross.)

All trenches in existing or future rights—of—way shall be compacted according to V.D.O.T. standards.

Lines shall be staked prior to construction.

## **WATER NOTES**

All water facilities shall be installed according to the Western Virginia Water Authority Design and Construction Standards/ (Latest Edition).

A minimum cover of three (3) feet is required over proposed lines.

Contractor shall be responsible for locating and uncovering valve vaults after paving and adjustment to final grade if necessary.

All existing utilities may not be shown in the exact location. The contractor shall comply with the State Water Works Regulations, Section 12.05.03, where lines cross.

All trenches in existing or future highway right—of—ways shall be compacted according to V.D.O.T. standards.

Lines shall be staked prior to construction.

Water main shall be minimum Class 350 Ductile Iron in accordance to AWWA C151 or DR-14 PVC in accordance with AWWA C-900.

Ductile Iron Pipe in accordance with the Western Virginia Water Authority Design and Construction Standards shall be required for all pipe with a working pressure equal to or greater than 100 p.s.i.

Pressure Reducing Valves are required on all lots with construction below elevation 1175. This includes Lots 15 thru 24 as basement elevations DEVELOPMENTape Awithin 2 feet of the threshold elevation.

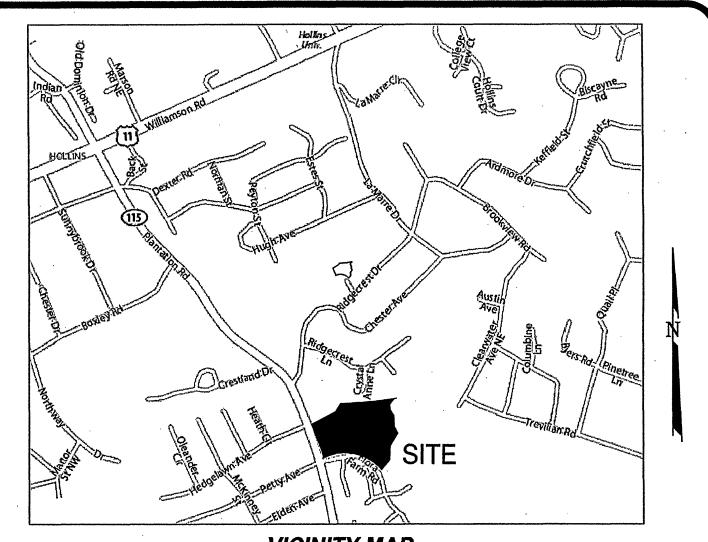
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Zohingorizon (and gertiep) control surveys were performed in (year)

SOURCE OF TOPOGRAPHIC MAPPING IS ROANOKE COUNTY AERIAL MAPPING 1995 AND FIELD SURVEY BY PDG DATED 2007. THE BENCHMARKS ARE SHOWN ON A PROJECT BASED UPON WORK PERFORMED BY MATTERN & CRAIG & PROVIDED TO PARKER DESIGN GROUP BY DEVELOPER.

PARKER DESIGN GROUP & PREPARED FROM RECORDS

The professional seal and signature AFFIXED certifies the boundary survey and topographic mapping to be accurate and correct.

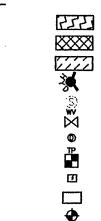


## **VICINITY MAP**

LEGEND

----- EXISTING PROPERTY LINE EXISTING SANITARY SEWER ---- Existing 10' contours

LIMITS OF DISTURBANCE



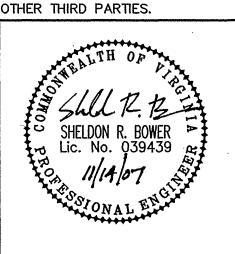
OPEN SPACE PRIMARY CONSERVATION AREA SECONDARY CONSERVATION AREA FIRE HYDRANT SANITARY SEWER MANHOLE WATER VALVE STORM DRAIN MANHOLE TELEPHONE PEDISTAL ELECTRICAL PEDISTAL CABLE TV PEDISTAL

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PARKER DESIGN GROUP, INC ASSUMES NO RESPONSIBILITY FOR ADEQUACY OF PLANS OR FOR INFORMATION ON PLANS UNTIL SUCH PLANS HAVE BEEN APPROVED BY THE REQUIRED PUBLIC AGENCIES.

ANY WORK COMMENCED ON A PROJECT PRIOR TO PLAN APPROVAL IS AT SOLE RISK OF THE DEVELOPER.

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PROFESSIONAL ENGINEER

SEAL AND SIGNATURE

4TH SUB: 14, NOV 2007 3RD SUB: 31, OCT 2007 2ND SUB: 26 SEPT 2007 1ST SUB: 20 JULY 2007 CONCEPT SUB. 25 APRIL 2007



**DESIGN GROUP** 

816 Boulevard Salem, Virginia 24153 Phone: 540-387-1153 Fax: 540-389-5767 www.parkerdg.com

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# COUNTY OF ROANOKE

NAME OF DEVELOPMENT THE VILLAGE AT TINKER CREEK PHASE II

MAGISTERIAL DISTRICT(S) HOLLINS MAGISTERIAL DISTRICT

ENGINEER, ARCHITECT OR SURVEYOR (name, address, telephone)

DEVELOPER (name, address, telephone)

TAX MAP NO(S) 027.20

STAR CITY DEVELOPERS, INC. OWNER (name, address, telephone) ATTN: CHAD MCGHEE

> STAR CITY DEVELOPERS **ATTN: CHAD MCGHEE**

**CLOVERDALE, VA 24077** 

**PO BOX 159** 

PHONE: 563-8302

---OWNER/DEVELOPER, AM AWARE

**PO BOX 159** 

**CLOVERDALE, VA 24077** 

PHONE: 387-1153 816 BOULEVARD

OF THE SITE DESIGN REQUIREMENTS IMPOSED BY

THIS SITE DEVELOPMENT PLAN AND OTHER APP-

LICABLE COUNTY CODES. I HEREBY CERTIFY THAT

I AGREE TO COMPLY WITH THESE REQUIREMENTS.

UNLESS MODIFIED IN ACCORDANCE WITH LOCAL LAW.

**SALEM, VA 24153** FAX: 389-5767

PARCEL NO(S) BLOCK NO(S)

PARKER DESIGN GROUP, INC.

**ATTN: SHELDON BOWER** 

SHEET 01 DF 16

PHONE: 563-8302