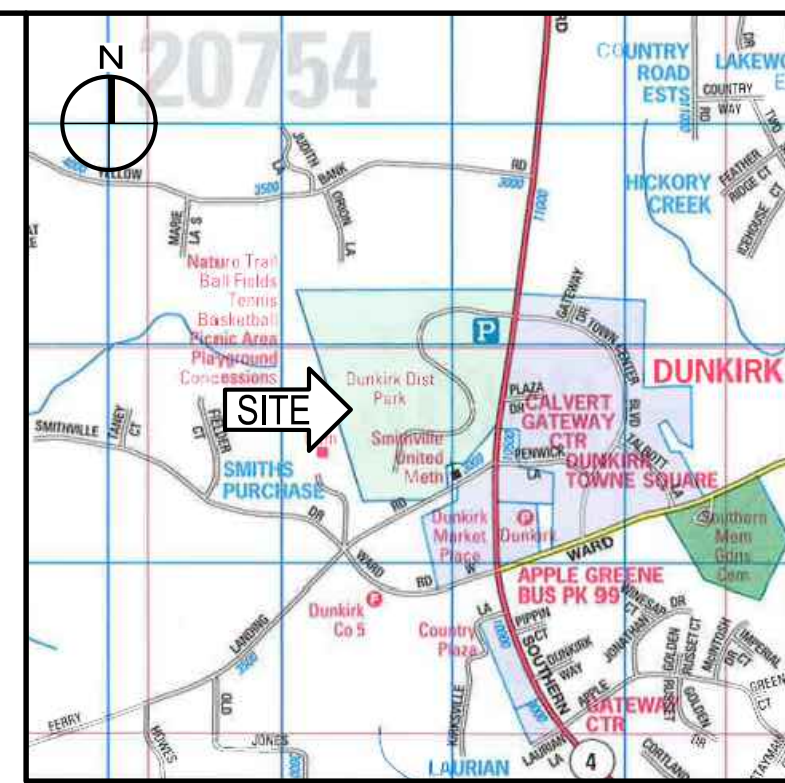
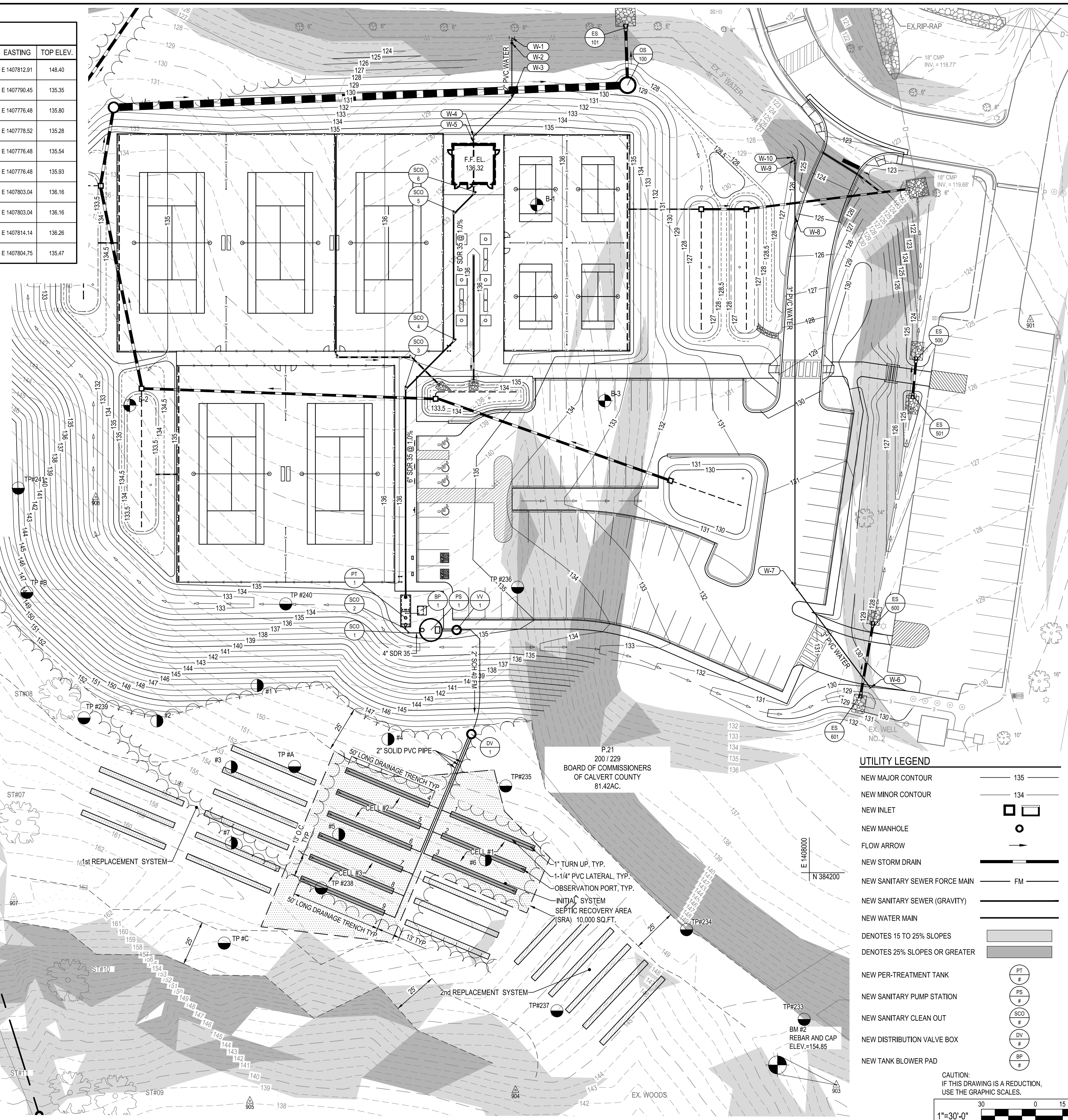


STRUCTURE SCHEDULE					
NO.	DESCRIPTION	INVERTS	NORTHING	EASTING	TOP ELEV.
DV-1	DIVERSION VALVE	INV IN 143.72 INV OUT 143.72	N 384276.42	E 1407812.91	148.40
PS-1	PUMP STATION	INV IN 129.25 INV OUT 131.00	N 384334.11	E 1407790.45	135.35
PT-1	PRE-TREATMENT TANK	INV IN 129.95 INV OUT 129.95	N 384345.47	E 1407776.48	135.80
SCO-1	SANITARY CLEAN OUT	INV IN 129.75 INV OUT 129.75	N 384332.50	E 1407778.52	135.28
SCO-2	SANITARY CLEAN OUT	INV IN 129.88 INV OUT 129.88	N 384334.54	E 1407776.48	135.54
SCO-3	SANITARY CLEAN OUT	INV IN 131.09 INV OUT 131.09	N 384467.45	E 1407776.48	135.93
SCO-4	SANITARY CLEAN OUT	INV IN 131.47 INV OUT 131.47	N 384494.01	E 1407803.04	136.16
SCO-5	SANITARY CLEAN OUT	INV IN 132.17 INV OUT 132.17	N 384564.55	E 1407803.04	136.16
SCO-6	SANITARY CLEAN OUT	INV IN 132.33 INV OUT 132.33	N 384575.65	E 1407814.14	136.26
VV-1	VALVE VAULT	INV IN 131.00 INV OUT 131.00	N 384334.11	E 1407804.75	135.47

WATER STRUCTURE SCHEDULE			
NO.	DESCRIPTION	NORTHING	EASTING
W-1	3" x 3" x 2" TEE	N 384662.34	E 1407835.36
W-2	2" VALVE	N 384659.34	E 1407835.36
W-3	45° ELBOW	N 384628.84	E 1407835.36
W-4	45° ELBOW	N 384607.63	E 1407814.14
W-5	BUILDING CONNECTION	N 384604.13	E 1407814.14
W-6	CONNECT TO EXISTING	N 384302.03	E 1408034.08
W-7	45° ELBOW	N 384358.11	E 1407992.24
W-8	VERTICAL BEND	N 384563.14	E 1407992.24
W-9	45° ELBOW	N 384594.58	E 1407992.24
W-10	CONNECT TO EXISTING	N 384596.00	E 1407990.83



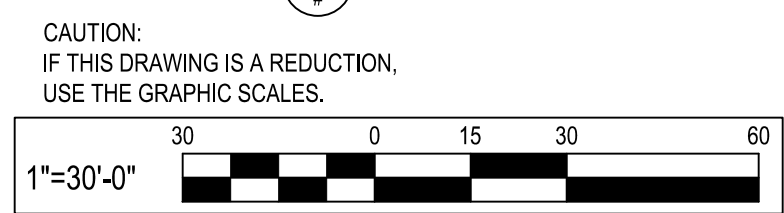
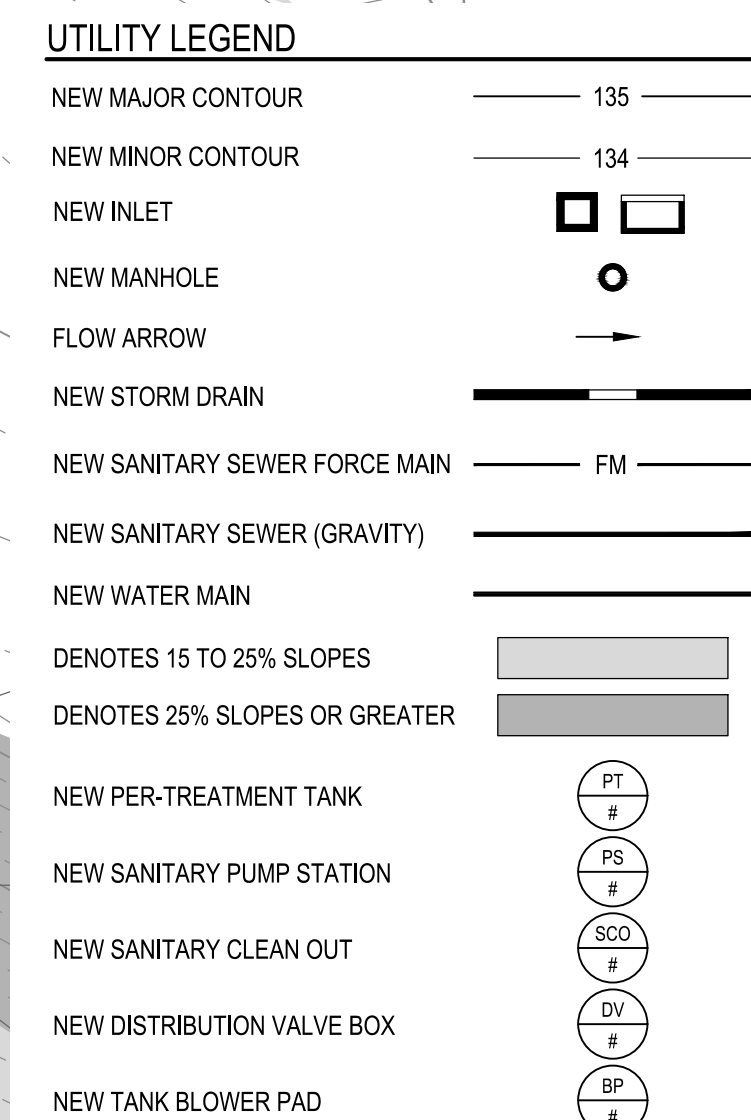
DESIGN DATA-SEWAGE DISPOSAL SYSTEM

- DESIGN DATA - SEWAGE DISPOSAL SYSTEM**
- DESIGN FLOW:
 - PEAK FLOW RATE: 10 GPD PER 1 PARKING SPACE
 - THE PROPOSED RESTROOM BUILDING SERVES THE IMMEDIATELY SURROUNDING AREAS OF THE PARK. OTHER EXISTING RESTROOMS AT THE PARK SERVE PARKING LOTS IN THE AREAS IMMEDIATELY SURROUNDING THEIR RESPECTIVE LOCATIONS. PORTION OF THE PARK AND ASSOCIATED PARKING LOT SERVED BY THIS PROPOSED NEW RESTROOM:
 - NEW TENNIS COURTS PARKING LOT = 75 SPACES
 - EX. FIELD PARKING LOT (EAST OF PROJECT AREA) = 36 SPACES
 - EX. LOWER FIELD PARKING LOT (NORTH OF PROJECT AREA) = 136 SPACES
 - TOTAL = 247 SPACES, = 10 GPD X 247 = 2,470 GPD - SAY 2,500 GPD (PEAK)
 - ABSORPTIVE AREA REQUIRED:
 - 2,500 GPD / 1.2 GPD/SF = 2,083 SF
 - ABSORPTIVE AREA PROVIDED:
 - 3 FT WIDE STANDARD TRENCH (W)
 - 2,083 SF / 3 CELLS = 694 SF
 - LENGTH DEEP TRENCH:
 - ABSORPTIVE SOIL (D) = 2 FT = ASSUMED SIDEWALL
 - $L = (W + 2) / (W + 1 + 2D) = (3 + 2) / (3 + 1 + 2(2)) = 62.5\%$
 - $62.5\% (694) = 434 LF$
 - PROVIDED CONFIGURATION:
 - 3 CELLS WITH 3 TRENCHES AT 50 FT. = 3 X 3 X 50 = 450 LF (> 434 LF)

- DESIGN DATA - SEWAGE DISPOSAL SYSTEM**
- PRETREATMENT UNIT STORAGE:
 - VOLUME PROVIDED: 1,500-GAL TOTAL (>50% OF DESIGN FLOW)
 - STORAGE PROVIDED IN SETTLING ZONE PORTION OF PRETREATMENT UNIT.
 - PRETREATMENT:
 - A CUSTOM ENGINEERED PRETREATMENT UNIT INTENDED TO ACCOMPLISH AT LEAST 50% REMOVAL OF TOTAL NITROGEN, IS PROVIDED FOR AN AVERAGE FLOW OF 2,500 GALLONS PER DAY UTILIZING FLOW EQUALIZATION.

- DESIGN DATA - SEWAGE PUMP STATION - PS-1**
- DUPLEX STATION
 - MODEL: MYERS MESP050 3450 RPM OR EQUAL
 - DUPLEX MIN PERFORMANCE
 - DESIGN POINT 29 GPM @ 36.5' TDH
 - 3PHASE 230V 1/2 HP FLYGT
 - TOP 135.38

INV IN 4" SDR 35	129.25
HWA	126.25
PUMP ON	125.67
PUMP OFF	125.50
BOTTOM	123.50
TOTAL DEPTH	11.88'
 - PLACE SIPHON AND AIR RELEASE TAP/PIPE IN FM HEADER PIPE INSIDE STATION.



NO.	DATE	REVISION	BY
1	08/16/21	6.16.21 REVISED PER TEG REVIEW COMMENTS	JDM
2	10/28/21	10.28.21 REVISED PER TEG REVIEW COMMENTS	RSB

WHITNEY BAILEY COX & MAGNANI, LLC
300 East Joppa Road, Suite 200
Baltimore, MD 21086
410.512.4526 www.wbcm.com

WBCM
Designing Infrastructure for Tomorrow

I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
License # 27734 Expiration Date: 07/12/24

UTILITY PLAN

DUNKIRK DISTRICT PARK TENNIS COURT
10750 SOUTHERN MARYLAND BLVD.
DUNKIRK, MARYLAND 20754
TAX MAP - 003 GRID - 21 PARCEL - 21
SPR-2020-315

DESIGNED:	R.W.H.
DRAWN:	R.S.S.
CHECKED:	B.W.L.
SCALE:	1"=30'
DATE:	08/17/22
PROJECT:	2016.1153.26.0
DRAWING:	

C401