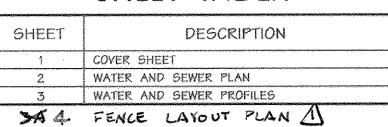
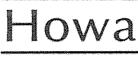
### SHEET INDEX



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ITEMS	QUANTITIES ESTIMATED	QUANTITIES	TYPE	MANUFACTURER / SUPPLIER
6" WATER	100 <b>C</b> F	Q ş	DIP	GRIPPIN PIPE
8" WATER	1802 LF	1791	Dip	12 23
8" x 6" TEE	4		DIP	STAR PIPE
8" x 8" TEE	2	2.	DIP	ž9 35
8" VALVE	5	5		MUELLER
6" VALVE	4	L.		\$¥
8" 1/8 HORIZ BEND	7	-		STAR MPE
8" 1/16 HORIZ BEND	4	24		39 80
8" CAP	1	NOT USED		\$2 <del>2</del> 4
6" FIRE HYDRANT	4			MUELLER
8" DIP SEWER	25	25	DIP	GRIFFIN PIPE
SEWER MANHOLE	1	· &		ATIANTIC CONCRETE PROD.
NAME OF UTILITY CON	TRACTOR: COM	IER CONST		
SURVEY AND DRAFTIN	G DIVISION A	S-BUILT DATE:	4-7.	



### LEGEND

anaanaana kaamaa kaa	PROPERTY BOUNDARY
nanaturalas escara en accas forma contractor a se de adocular hastratoriada de adocu	EX. RIGHT OF WAY
	ADJACENT PROPERTY BOUNDARY
alab makiputakingangangangangangangangangangangangangan	EX ROADS AND WALKS
in second indust contains an $280$ at solarist sectors above second as	EX. MAJOR CONTOUR
de lot no de un an ant an use los an nos the ane an the for de an ant los a	EX. MINOR CONTOUR
	FOREST CONSERVATION EASEMENT
	PROP. BUILDING PROP. CURB / EDGE OF PAVING PROP. DEPRESSED CURB
	PROP. GROUP LIGHT PROP. SINGLE LIGHT PROP. LIGHT PROP. WATER EX. WATER LINE WITH FIRE HYDRANT PROP. SANITARY SEWER AND MANHOLE/CLEANOUT EX. SANITARY SEWER WITH MANHOLE

OWNER/DEVELOPER EMERSON DEVELOPMENT VI,LLC 1 TEXAS STATION COURT, SUITE 200 TIMONIUM, MARYLAND 21093-8288 Project background Information Subdivision Name : Revitz Property Parcel F Tax Map: 47 Lot/Parcel: 165 Zoning : PEC Election District : 6 Total Parcel Area: 9.70 Acres File Numbers : Plat #18684, 18685, F-07-055, S-99-12, PB 339 and ZB 979M, PB-359, F-02-111, SP-01-12, F-02131, F-07-55, F-11-019. THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND PLAT #21278 SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT APPROVED SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 308 OF THE SPECIFICATIONS AND 5/31/1 WITH SDP-10-096 DATE HOWARD DEPARTMENT OF PUBLIC WORKS DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND HOWARD COUNTY, MARYLAND DAFT MCCUNE WALKER INC 200 EAST PENNSYLVANIA AVENUE • TOWSON, MD 21286 P: 410 296 3333 F: 410 296 4705 WWW.DMW.COM A TEAM OF LAND PLANNERS, LANDSCAPE ARCHITECTS. ENGINEERING DIVISION IGINEERS, SURVEYORS & ENVIRONMENTAL PROFESSIONA

# EMERSON PARCEL G

TAX MAP 47

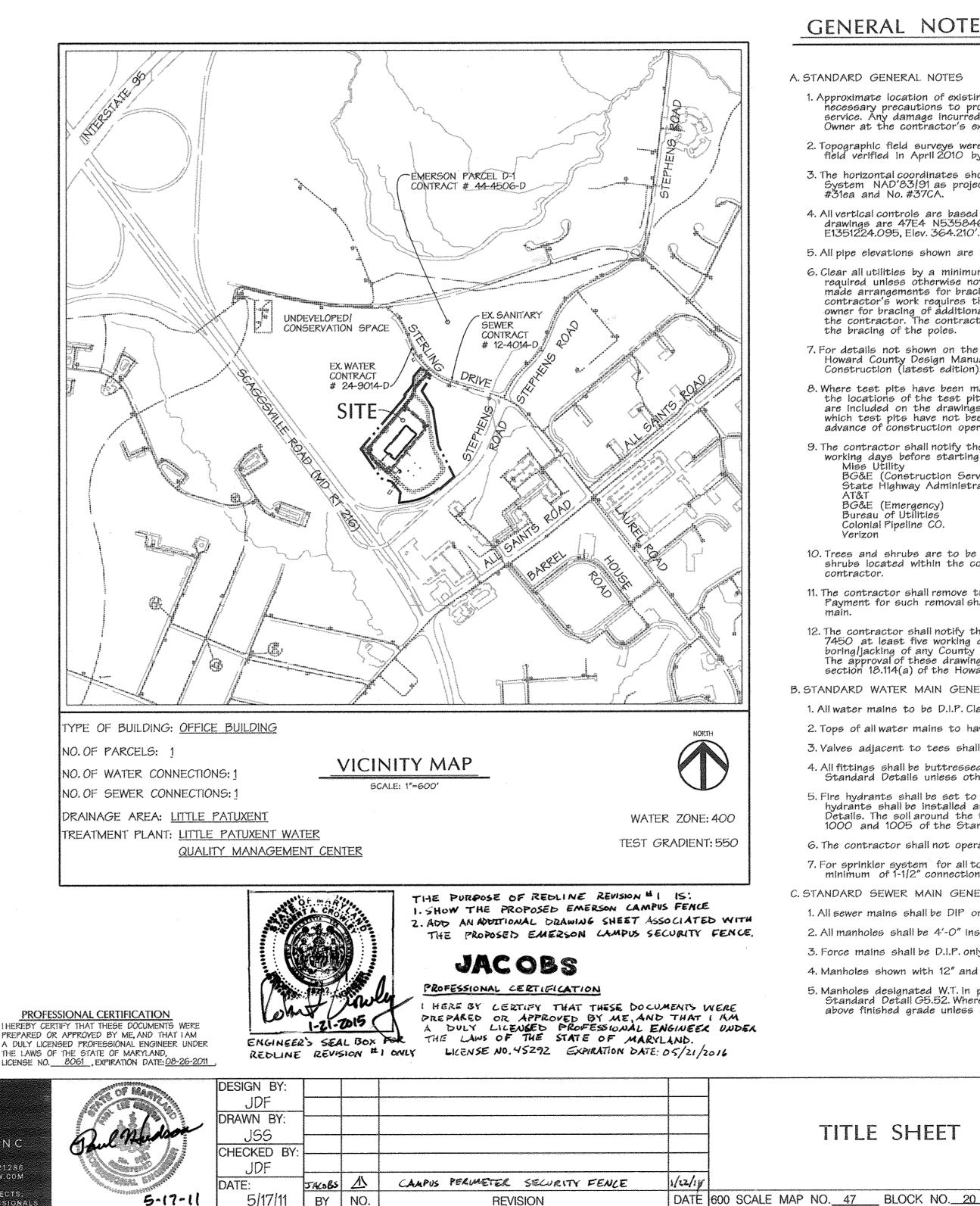
PARCEL 165

6th ELECTION DISTRICT

## WATER & SEWER CONSTRUCTION PLANS

### Department of Public Works Howard County, Maryland

## CONTRACT NO. 24-4698-D





## GENERAL NOTES

1. Approximate location of existing utility mains are shown. The contractor shall take all necessary precautions to protect existing mains and services and maintain uninterrupted service. Any damage incurred shall be repaired immediately to the satisfaction of the Owner at the contractor's expense.

2. Topographic field surveys were performed by Shanaberger and Lane on January 2005, and field verified in April 2010 by Daft McCune Walker Inc.

3. The horizontal coordinates shown on the drawings are based on Maryland State Reference System NAD'83/91 as projected by Howard County Geodetic Control Stations No. #31ea and No. #37CA.

4. All vertical controls are based on NGVD 88. Vertical controls provided on the drawings are 47E4 N535846.138, E1355431.196, Elev. 338.909'. 4762 N532938.964, E1351224.095, Elev. 364.210'.

5. All pipe elevations shown are invert elevations unless otherwise noted.

6. Clear all utilities by a minimum of 12". Clear all poles by 5' - O" minimum or tunnel as required unless otherwise noted. The owner has contacted the utility companies and has made arrangements for bracing of poles as shown on the drawings. In the event the contractor's work requires the bracing of additional poles, any cost incurred by the owner for bracing of additional poles or damages shall be deducted from monies owed the contractor. The contractor shall coordinate with the utility companies to schedule the bracing of the poles.

7. For details not shown on the drawings and for materials and construction methods use Howard County Design Manual, Volume IV, Standard Specifications and Detail for Construction (latest edition). The contractor shall have a copy of Volume IV on the job.

8. Where test pits have been made on existing utilities, they are noted by the symbol at the locations of the test pits. A note or notes containing the results of the test pit or pits are included on the drawings. Existing utilities in the vicinity of the proposed work for which test pits have not been dug shall be located by the contractor two weeks in advance of construction operations at his own expense.

9. The contractor shall notify the following utility companies or agencies at least five working days before starting work shown on these plans: Miss Utility 1-800-257-7777

	S New New York Start S P & S & S
Construction Services)	410-850-4620
lighway Administration	410-531-5533
<b>T</b>	1-800-252-1133
Emergency)	410-685-1400
of Utilities	410-313-4900
Pipeline CO.	410-795-1390
·	1-800-742-0033/410-224-9210

10. Trees and shrubs are to be protected from damage to the maximum extent. Trees and shrubs located within the construction strip are not to be removed or damaged by the

11. The contractor shall remove trees, stumps, and roots along line of excavation. Payment for such removal shall be included in the unit price bid for construction of the

12. The contractor shall notify the Bureau of Highways, Howard County, at (410) 313 7450 at least five working days before any open cut of any county road or boring/jacking of any County roads for laying water/sewer mains or house connections. The approval of these drawings will constitute compliance with DPW requirements per

section 18.114(a) of the Howard County code.

B. STANDARD WATER MAIN GENERAL NOTES

1. All water mains to be D.I.P. Class 54 unless otherwise noted.

2. Tops of all water mains to have a minimum of 3'-6" of cover unless otherwise noted. 3. Valves adjacent to tees shall be strapped to tees.

4. All fittings shall be buttressed or anchored with concrete in accordance with the Standard Details unless otherwise provided for on the drawings.

5. Fire hydrants shall be set to the bury line elevations shown on the drawings. All fire hydrants shall be installed and buttressed with concrete in accordance with Standard Details. The soil around the fire hydrant shall be compacted in accordance with section 1000 and 1005 of the Standard Specifications.

6. The contractor shall not operate any water main valves on the existing water system.

7. For sprinkler system for all town homes or multi-family dwelling units should have a minimum of 1-1/2" connection with a 1" outside meter setting.

C. STANDARD SEWER MAIN GENERAL NOTES

1. All sewer mains shall be DIP or P.V.C. unless otherwise noted.

2. All manholes shall be 4'-0" inside diameter unless otherwise noted.

3. Force mains shall be D.I.P. only.

4. Manholes shown with 12" and 16" walls are for brick manholes only. 5. Manholes designated W.T. in plan and profile shall have watertight frame and covers, Standard Detail G5.52. Where watertight frame and cover is used, set top of frame 1'-6" above finished grade unless otherwise noted on the drawings.



Scale: 1"=2000' HOWARD COUNTY ADC MAP NUMBER 19, BLOCK H9

BENCHMARK

DESCRIPTION

COORDINATES IN MARYLAND NAD83(91) (HORIZONTAL) AND NGVD29 (VERTICAL) DATUMS.

47G2 NORTHING: 162440.1212 47E4 NORTHING: 163326.2295 EASTING: 411853.9279 ELEVATION: 364.210ft.

EASTING: 413136.2550 ELEVATION: 338.909ft

A. STANDARD GENERAL NOTES (CONTINUED) 13. A VARIANCE (RESOLUTION NO. 118-201)

PURSUANT TO SECTIONS 16.301 AND 16.200(a) OF THE HOWARD COUNTY CODE WAS GRANTED ON JULY 28,2011 FOR GOVERNMENT USES FROM THE STRUCTURE AND USE SETBALK FOR A FENCE.

)<sup>en</sup>te 24



SY: DFI DATE H-T-14

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### EMERSON PARCEL G

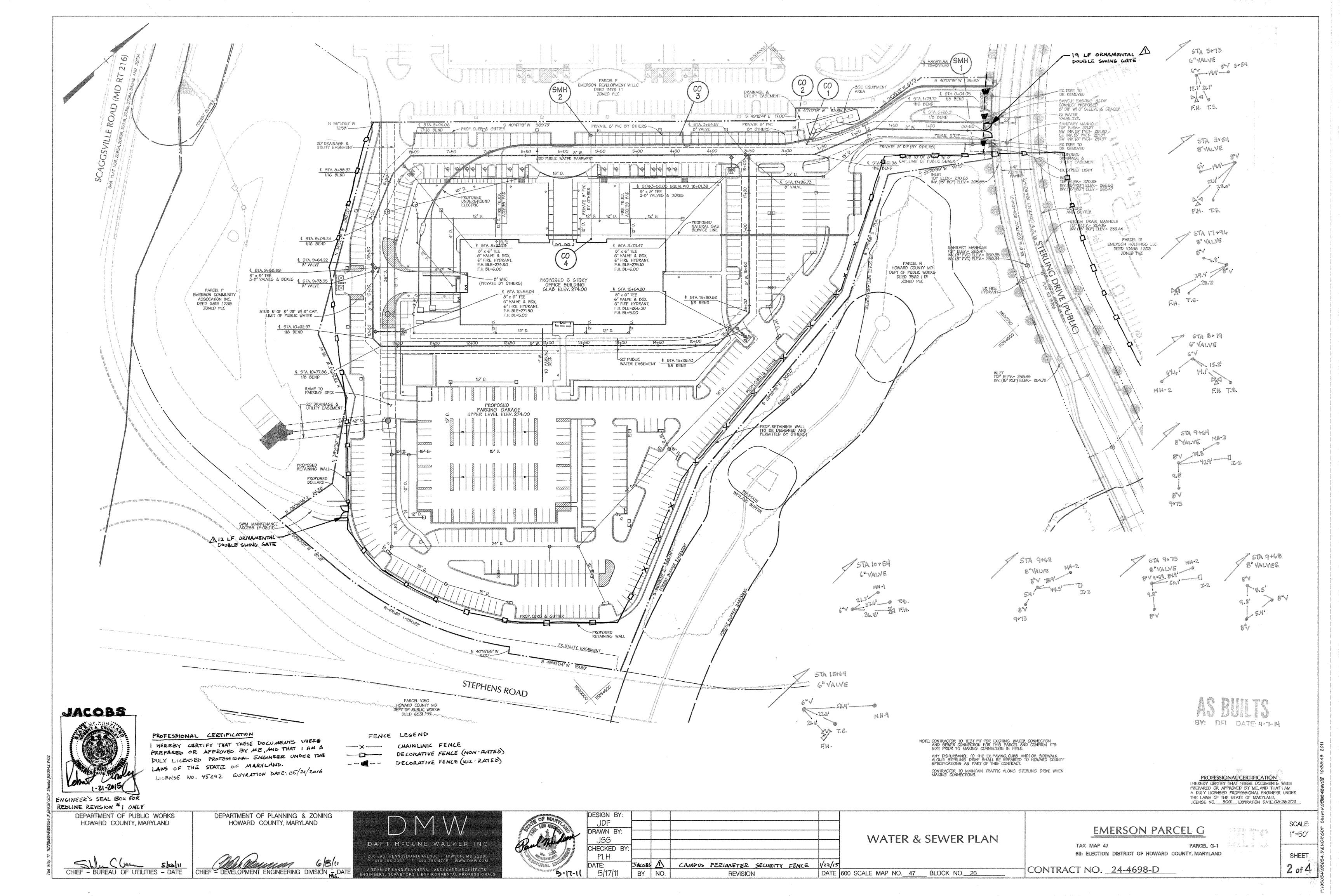
TAX MAP 47 PARCEL G-1 Sth ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND

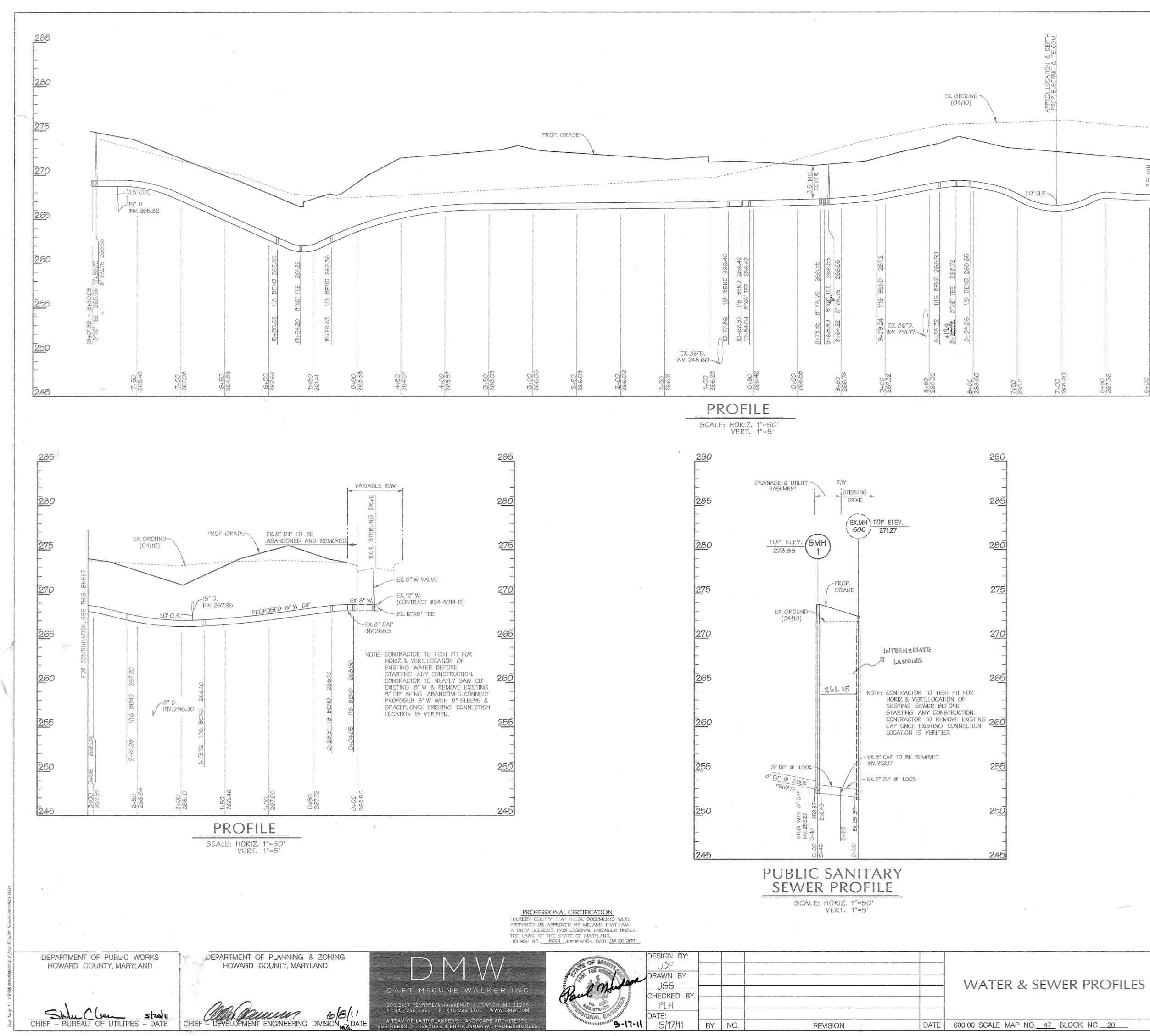
SCALE: As Shown SHEET

of 4

CONTRACT NO. <u>24-4698-D</u>

Tue May I7 ADDDDDDDA3\ENGR\SDP\_Sheets\950543W01





NOTE: CONTRACTOR: TO MARITAIN A MANUALM OF 35" COVER WARRANTERINE MERLEVER TOGGIOLE (EXCEPT WHERE NOTED)	OVER WATERLEYE WATERLEYER POSSIBLE (EXCEPT   225     WHERE NOTED)   220     Image: NoteD)   275     Image: NoteD)   275     Image: NoteD)   270     Image: NoteD)   275     Image: NoteD)   270     Image: NoteD)   260     Image:
OVER WATERLINE WHENEVER POSSIBLE (EXCEPT WHERE NOTED)	OVER WATERLENE WHENEVER POSICIELE (SXCP7   225     WHERE NOTED)   275     Image: State of the st
DVER WATERLINE WHENEVER POSSIBLE (EXCEPT WHENE NOTED)	OVER WATERLINE WHENLIVER POSSIBLE (EXCEPT   285     WHEELE NOTED)   275     PROPOSED, 8' W DP   275     B' S.   260     B'' S.   250
DVER WATERLINE WHENEVER POSSIBLE (EXCEPT WHERE NOTED)	OVER WATERIENE WHENEVER POSSIBLE (EXCEPT   285     WHERE NOTED)   280     PROPOGED & W DIP   270     PROPOGED & W DIP   270     PROPOGED & W DIP   260     PROPOGED & W DIP   250     PROPOGED & W DIP   250     PROPOGED & W DIP   250
PROPOSED & W DIP PROPOSED & W DIP PROPOSED & W DIP PROPOSED & W DIP PROPOSED & W DIP THE SQL A S	WATERINE WIENENER POBGIBLE (EXCEPT   285     280   280     280   280     275   275     275   275     275   275     275   265     275   265     275   265     275   265     275   265     275   265     275   265     276   270     275   265     275   265     275   265     275   265     275   255     275   255     275   255     275   255     275   255     275   255
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212 (EXCEPT 2+73.47 8 Y6" TEE 269.02 2+54.67 8 YALVE 268.80 2+54.67 8 YALVE 268.80 2+56.05 = 16+01.39 8 Y8" TEE 269.02 2+56.05 = 16+01.39 8 Y8" TEE 269.05 2+56.05 = 16+01.39 8 Y8" TEE 269.05	BLE (EXCEPT 285   2200 275   275 275   2200 2441   270 270   2200 2400   210 2400   2200 2400   2200 2400   2200 2400   2200 2400   255 255   250 255   250 250
2450.4 0.10 11 0.10 11 200.00 3450.05 = 16+01.39 3%6° TEE 268.70 2450.05 = 16+01.39 3%6° TEE 268.70 FOR CONTINUATION, SEE THIS SHEET	285 2280 275 275 275 275 275 275 2250 2255 2250 2255 2250 2250
268.04 FOR CONTINUATION, SEE THIS SHEET	280 275 2250 2000 2000 255 255 255 255 255 255 255 255 255



### EMERSON PARCEL G

TAX MAP 47 PARCEL G-1 6th ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND

CONTRACT NO.

Julia

**SHEET** 3 of 4

SCALE:

1"=50'

3' HIGH IMPASSE NON-RATED ORNAMENTAL FENCE	1			PROPERTY LINE
	1	532233.7	1353530.0	9.3
* ~	2	532207.6	1353557.9	7.5
м ж.	3	532254.3	1353623.0	32.3
	4	532253.0 532232.6	1353648.8	37.7 35.5
	5	532252.6	1353672.5	37.6
	7	532074.1	1353729.9	25.6
	8	531998.0	1353749.7	30.5
8' HIGH CHAIN LINK FENCE WITH 1' DOUBLE OUTRIGGER	9	531857.1	1353847.0	43.8
	10	531845.2	1353912.5	39.6
	11	531802.7	1353938.5	45.9
	12	531778.8	1353989.5	44.9
	13	531751.5 531747.9	1354006.8	68.9 69.3
•	14	531733.7	1354018.0	6.9
	16	531703.5	1354263.8	6.2
·	17	531681.1	1354261.0	28.8
· · · · · · · · · · · · · · · · · · ·	18	531559.4	1354378.6	134.9
· · · ·	19	531557.3	1354413.3	132.7
• .	20	531610.8	1354459.0	73.8
	21	531594.4	1354480.8	0.3
8' HIGH IMPASSE K12 RATED	22	531612.3	1354683.4	44.4
ORNAMENTAL FENCE	23	531600.0	1354722.0	51.8
	24	531686.8	1354994.2	6.0 14.2
	25	531678.9	1354996.7	14.2
	27	531696.4	1355051.5	14.2
	28	531704.0	1355075.4	14.2
	29	531625.6	1355097.0	14.4
	30	531487.3	1355058.4	2.5
	31	531466.2	1355003.9	2.5
8' HIGH CHAIN LINK FENCE	32	531375.2	1354908.7	2.5
WITH 1' DOUBLE OUTRIGGER		531266.0	1354845.0	0.0
	34	531075.5	1354783.8	0.0
	35	531063.8	1354780.1	0.0
	- 36	531045.8	1354774.3	6.0
	37	531033.3 530846.1	1354827.1 1354723.0	6.0 50.0
HIGH IMPASSE NON-RATED		530846.1	1354691.9	33.0
ORNAMENTAL FENCE	40	530891.5	1354495.6	34.4
	40	530953.0	1354360.7	26.5
	42	530874.1	1354291.6	14.5
01111011111010000	43	530959.6	1354206.6	13.4
8' HIGH IMPASSE K12 RATED ORNAMENTAL FENCE	44	530900.0	1354263.2	12.8
	45	530886.4	1354277.9	10.0
	- 46	530854.5	1354274.0	7.5
B' HIGH IMPASSE NON-RATED	}	530802.1	1354227.0	20.0
ORNAMENTAL FENCE	48	530771.7	1354223.7	12.3
0 UICU (11414) 114/ 27/10-	- <u>49</u> 50	530720.0	1354255.0	2.0
8' HIGH CHAIN LINK FENCE WITH 1' DOUBLE OUTRIGGER		530615.3	1354318.4	2.0
	52	530158.1	1354440.4	4.7
	53	530119.0	1354450.4	13.0
	54	530090.6	1354444.4	31.4
	55	530001.4	1354372.7	40.2
	56	529952.2	1354311.7	29.6
	57	529912.6	1354238.4	28.6
	58	529892.6	1354166.4	31.3
	59	529903.4	1354111.0	51.6
	60	529912.9	1354100.1	46.3
HIGH IMPASSE NON-RATED	61	529920.8	1354091.1	36.4
ORNAMENTAL FENCE	62	530016.4	1353981.6	0.0
	63 64	530042.7	1353942.5	14.2 2.2
	65	530141.4	1353828.3	1.9
	66	530286.0	1353726.9	4,4
. •	67	531084.8	1353977.6	3.7
-	68	531089.6	1353984.8	0,0
	69	531092.0	1353988.4	0.0
	70	531164.5	1354095.9	0.9
	71	531443.9	1353905.8	0.9
	- 72	531440.2	1353802.7	0.0
	73	531508.5	1353124.3	0.0
8' HIGH CHAIN LINK FENCE	74	531518.5	1353126.4	10.2
VITH 1' DOUBLE OUTRIGGER	75	531540.6	1353131.8	7.0
	76	531605.3	1353145.4	6.4
	77	532012.6	1353378.9	5.7
	78	532035.8 532070.3	1353407.9 1353434.3	4.4
	80	532070.3	1353434.3	4.4
HIGH IMPASSE NON-RATED		532140.8	1353492.3	1.1
ORNAMENTAL FENCE	82	532160.1	1353493.5	2.7
	83	532181.5	1353499.4	7.9
	84	532187.4	1353492.6	8.5
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EVIEWED FOR NATURAL RESOURCES CONSERVATION SERVICE ND MEETS TECHNICAL REQUIREMENT

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

CHIEF - BUREAU OF UTILITIES - DATE

DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND

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**JACOBS** 

3.23.15 CHIEF - DEVELOPMENT ENGINEERING DIVISION - DATE

