

**GENERAL WATER NOTES**

DEPARTMENT OF PUBLIC WORKS BUREAU OF ENGINEERING

**PART I**

- Approximate locations of existing 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 Engineer at the contractor's expense.
- The existing topography was performed on September 2005 by Dalt, McCune Walker.
- Horizontal and Vertical Survey Controls:  
The coordinates shown on the drawings are based on Maryland State Reference System NAD '83/91 as projected by Howard County Geodetic Control Stations No. 47DA, 47EA and 47G2. All vertical controls are based on NAVD '88.
- All pipe elevations shown are invert elevations unless otherwise noted on the plans.
- Clear all utilities by a minimum of 12 inches. Clear all poles by 5'-0" 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 the 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.
- For details not shown on the drawing and for materials and construction methods, use Howard County Design Manual, Volume IV, Standard Specifications and Details for Construction (Latest Edition). The contractor shall have a copy of Volume IV on the job.
- When 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 is 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.
- The contractor shall notify the following utility companies or agencies at least five working days before starting work shown on these plans:

AT&T	1-800-252-1193
BGE (Construction Services)	410-250-4620
BGE (Emergency)	410-625-1400
Bureau of Utilities	410-313-4100
Colonial Pipeline Co.	410-743-1940
Miss Utility	1-800-251-7777
State Highway Administration	410-531-5533
Verizon	1-800-743-0039/410-224-4210

- 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 contractor.
- The contractor shall remove trees, stumps, and roots along the line of excavation. Payment for such removal shall be included in the unit price bid for construction of the main.
- The contractor shall notify the Bureau of Highways, Howard County at (410) 313-7450 at least five working days before open cutting or boring/lacking of any county road for laying water/sewer mains or house connections. The approval of these drawings will constitute compliance with DPW requirements per Section 10.114(a) of the Howard County Code.

**PART II WATER**

- All water mains shall be D.I.P. Class 54 unless otherwise noted.
- Tops of all water mains shall have a minimum of 3'-6" of cover unless otherwise noted.
- Valves adjacent to tees shall be strapped to tees.
- All fittings shall be buttressed or anchored with concrete in accordance with Standard Details unless otherwise provided for on the drawings.
- Fire hydrants shall be set to the bury line elevations shown on the drawings. All fire hydrants shall be installed in accordance with Standard Details. The soil around the fire hydrant shall be compacted in accordance with Section 1000 and Section 1005 of the Standard Specifications.
- The contractor shall not operate any water main valves on the existing water system.

**PART III SEWER**

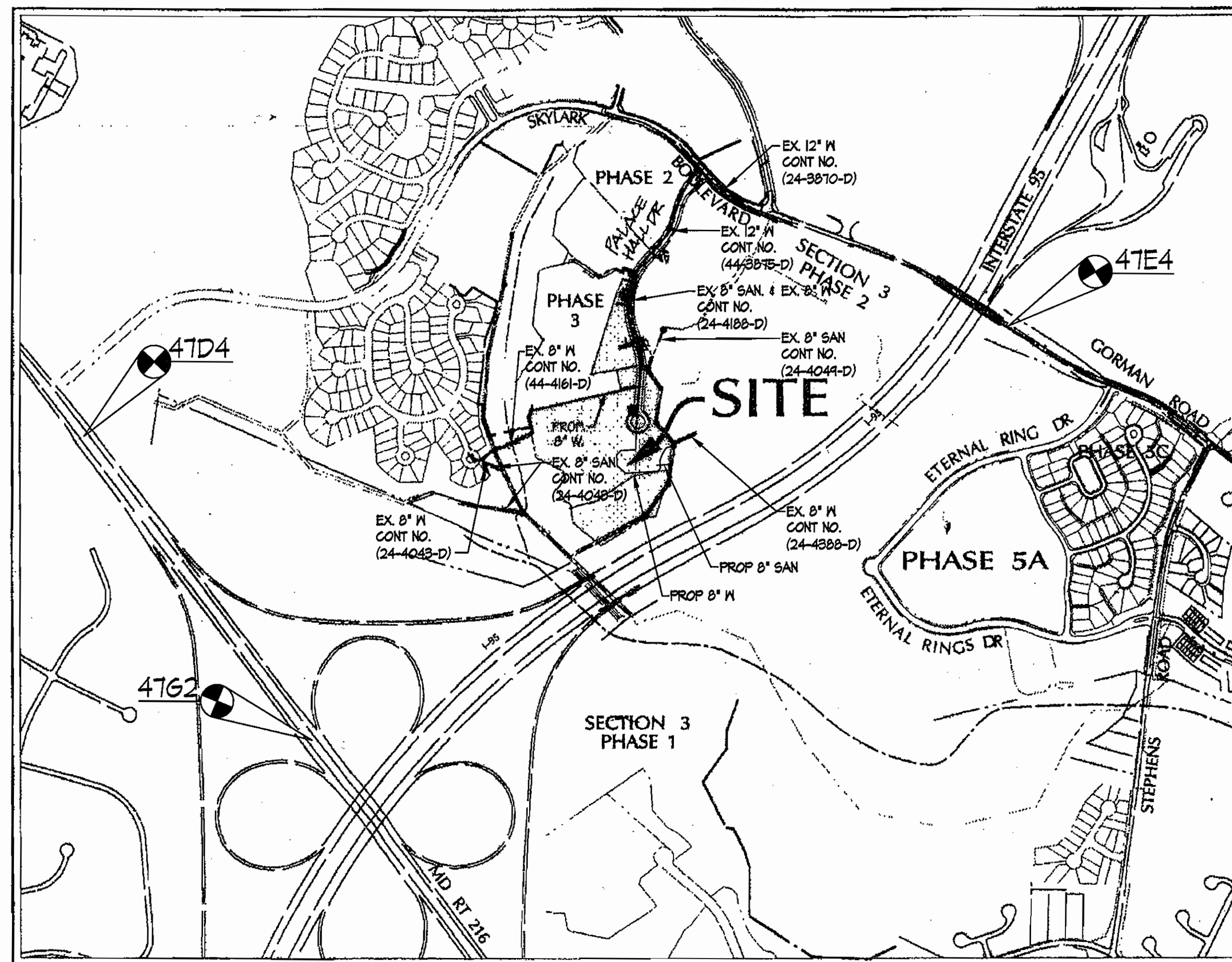
- All sewer mains shall be DIP and PVC unless otherwise noted.
- All manholes shall be 4'-0" inside diameter unless otherwise noted.
- Force mains shall be D.I.P. only.
- Manholes shown with 12" and 16" walls are for brick manholes only.
- Manholes designated M.T. in plan and profile shall have watertight frame and covers, Standard Detail 65.52. Where watertight manhole frames and covers are used, set top of frame 1'-6" above finished grade unless otherwise noted on drawings.
- House(s) with the symbol "C.N.S." indicates that cell cannot be served.

# PARKVIEW AT EMERSON

SECTION 3, AREA 4, PARCEL A-1  
HOWARD COUNTY, MARYLAND

CONTRACT NO. 24-4416-D

Developer: EMERSON, LLLP  
218 N. Charles St  
Suite 220  
Baltimore, MD 21201  
410-385-8426



Location Map  
SCALE: 1" = 600'

**BENCHMARKS**

MONUMENT	NORTHING	EASTING	ELEVATION	HORIZ. DATUM	VERT. DATUM
47DA	535405.46	1344362.71	315.40	NAD83(91)	NA6VD24
47E4	535846.14	1355491.20	330.91	NAD83(91)	NA6VD24
47G2	532938.96	1351224.10	364.21	NAD83(91)	NA6VD24

TYPE OF BUILDING:	MULTI-FAMILY RESIDENTIAL
NUMBER OF UNITS:	80 UNITS
NUMBER OF S.H.C.s:	1
NUMBER OF P.H.C.s:	1
DRAINAGE AREA:	LITTLE PATUXENT
TREATMENT PLANT:	LITTLE PATUXENT WATER QUALITY MANAGEMENT CENTER
TEST GRADIENT:	TOO

**QUANTITIES**

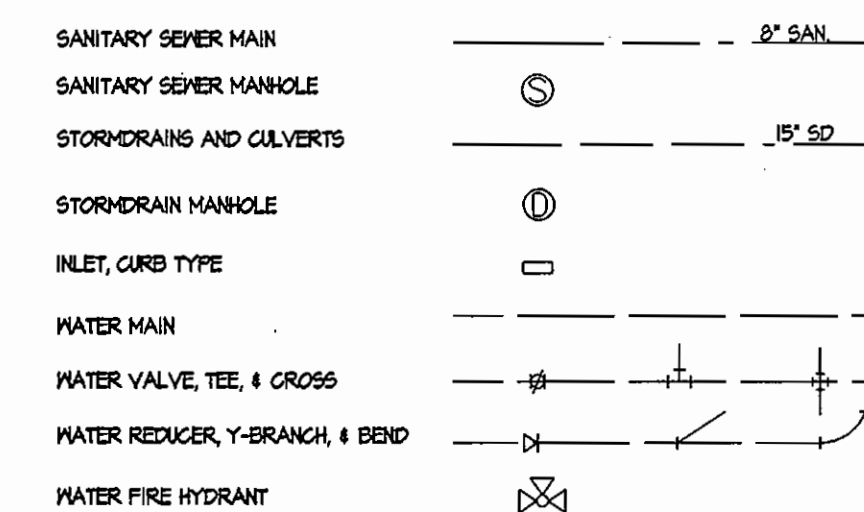
ITEM	ESTIMATED QUANTITY	QUANTITY	TYPE	MANUFACTURER/SUPPLIER
8" WATER MAIN	T10 L.F.	770 L.F.	D.I.P.	GRIFFIN PIPE CO.
6" WATER MAIN	4 L.F.	37 L.F.	D.I.P.	GRIFFIN PIPE CO.
FIRE HYDRANT	3 EA.	3 EA.	—	AMERICAN FLOW
8" x 8" TEE	4 EA.	4 EA.	D.I.P.	TYLER/UNION
8" VALVE	2 EA.	2 EA.	D.I.P.	TYLER/UNION
6" VALVE	1 EA.	4 EA.	D.I.P.	TYLER/UNION
8" x 1/8" BEND	4 EA.	9 EA.	D.I.P.	TYLER/UNION
8" x 1/8" BEND	1 EA.	1 EA.	D.I.P.	TYLER/UNION
8" CAP	—	1 EA.	D.I.P.	TYLER/UNION
8" CAP	—	1 EA.	D.I.P.	TYLER/UNION
SANITARY MANHOLE	1 EA.	1 EA.	PROP.M.	AMERICAST
SANITARY MANHOLE (SHALLOW)	1 EA.	1 EA.	6512	AMERICAST
8" PVC SEWER	11 L.F.	79 L.F.	PVC	JM MANUF. CO.
8" TYPE 'B' DROP (VERT. FT.)	12 L.F.	12 L.F.	PVC	JM MANUF. CO.
8" x 1/8" BEND	—	2 EA.	PVC	GP-K PVC SEWER
8" WYE	—	1 EA.	PVC	GP-K PVC SEWER
8" x 1/4" BEND	—	1 EA.	PVC	GP-K PVC SEWER
8" x 1/16" BEND	—	2 EA.	PVC	GP-K PVC SEWER
8" MAIN-LINE 90° LAMPHOLE	—	1 EA.	—	—

NAME OF UTILITY CONTRACTOR: GABE'S SERVICE  
SURVEY AND DRAFTING DIV. AS-BUILT DATE: DEC. 08

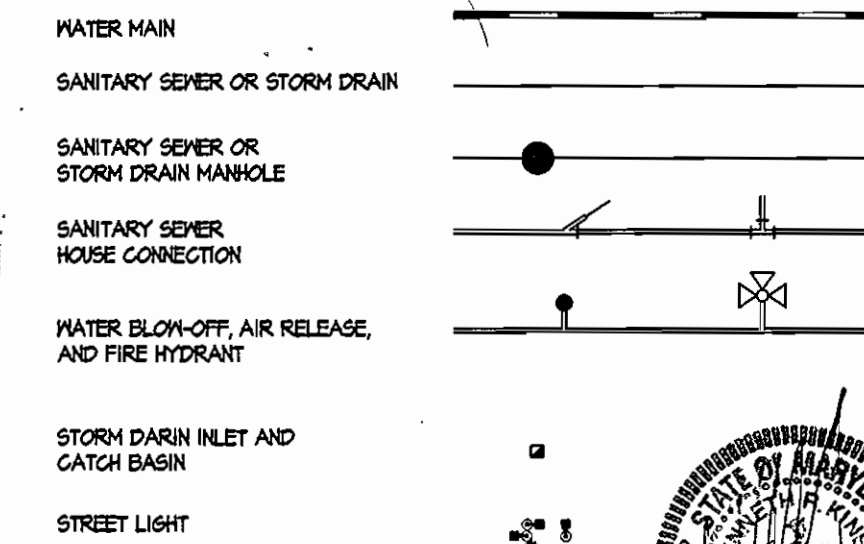
**DRAWING INDEX**

SHEET #	DRAWING #	DRAWING TITLE
1 OF 2	M.00	WATER & SEWER CONTRACT DRAWING COVER SHEET
2 OF 2	M.01	WATER & SEWER PLAN & PROFILE

**UTILITIES - EXISTING WORK**



**UTILITIES - PROPOSED WORK**



ADDRESS CHART				
PARCEL #	STREET ADDRESS			
A	4945 Palace Hall Drive			
SUBDIVISION NAME	SECTION / AREA LOTS / PARCELS			
Parkview at Emerson	3 / 4 A-1			
PLAT No. of L.F.	TAX MAP	ELECT. DIST.	ZONE	GENESIS TRACT
5204/230	47	6	REC. MOD. 3	6030
WATER CODE	SEWER CODE			
K01	5942000			
OWNER / FETTERER	EMERSON, LLLP 218 N. Charles St Suite 220 Baltimore, MD 21201 Phone: (410) 385-8426			

**AS BUILT**  
DATE: DECEMBER 2008

Reviewed for Howard Soil Conservation District and meets technical requirements  
Howard Soil Conservation District Date  
This development plan is approved for soil erosion and sediment control by the Howard Soil Conservation District.  
Approved: *[Signature]* 4/10/08  
Howard Soil Conservation District Date

Sediment control measures for this contract will be implemented in accordance with section 219 of the Specifications and as shown on SDF-06-154

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND  
*[Signature]* R. S. Gamm 4/10/08  
BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING & ZONING  
HOWARD COUNTY, MARYLAND  
*[Signature]* 4/10/08  
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

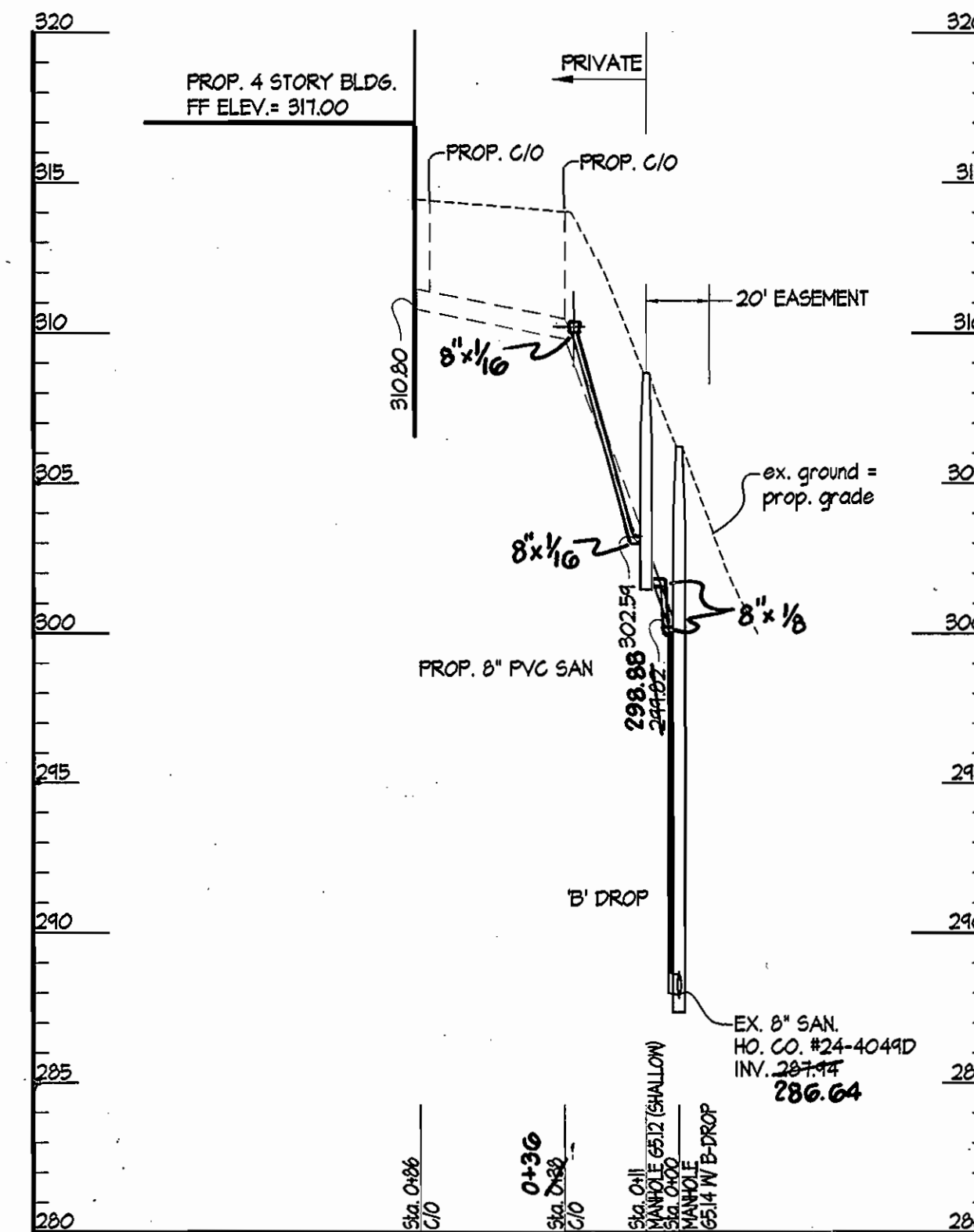
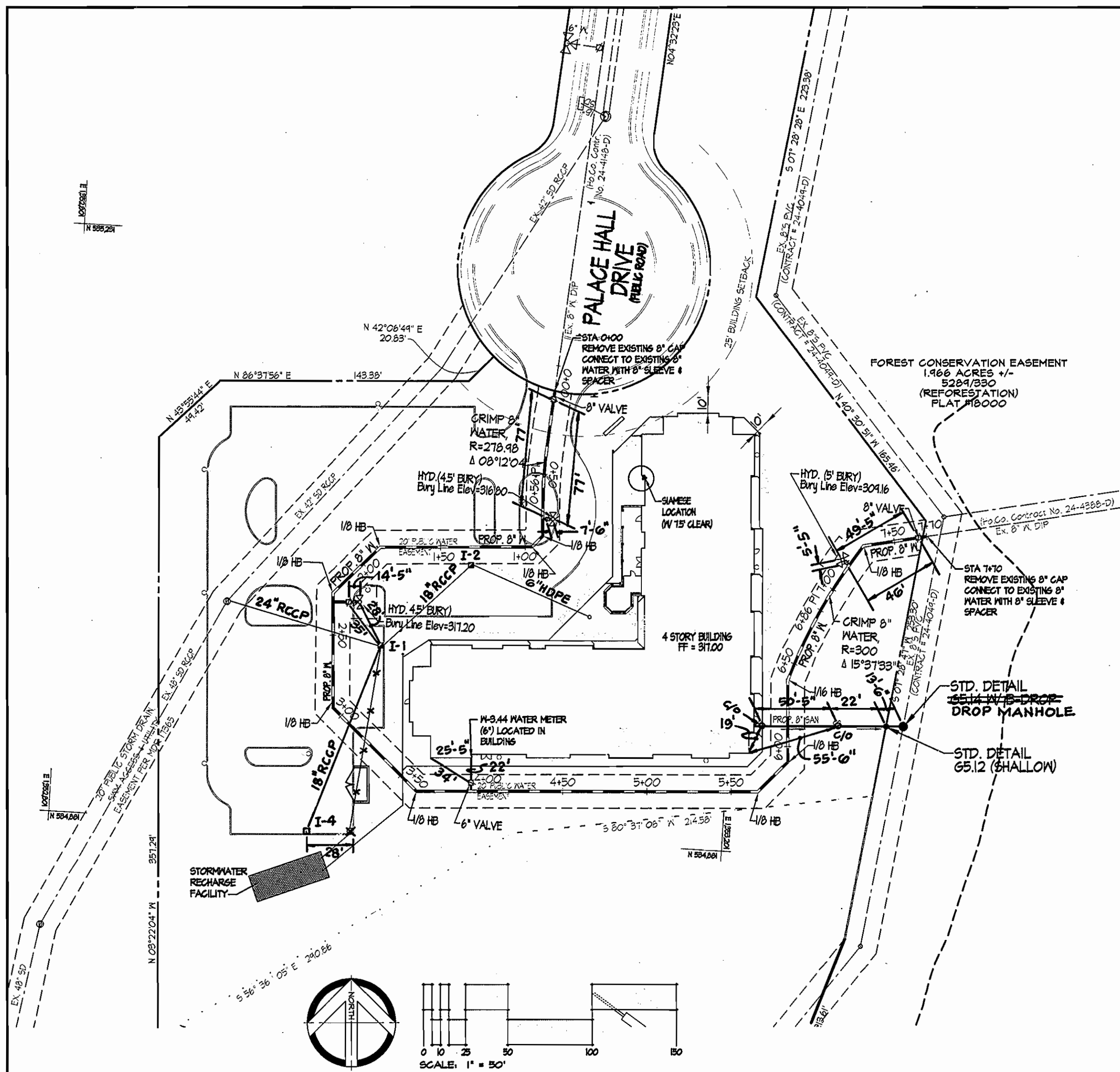
**SITE RESOURCES**  
INCORPORATED  
Comprehensive Land Planning & Site Design Services  
14315 Jarrattville Pike • Phoenix, Maryland 21131  
(410) 683-3388 • Fax (410) 683-3389

DES.	DRN.	CHK.	DATE	BY	NO.	REVISION	DATE
K.R.K.	G.L.K.	K.R.K.	04/10/08				

**WATER & SEWER CONTRACT DRAWING COVER SHEET**  
TAX MAP NO. 47 PARCEL 1061

CONTRACT NO. 24-4416-D  
**Parkview @ Emerson**  
Section 3, Area 4, Parcel A, Lot 1  
6th ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
SCALE: AS SHOWN  
SHEET 1 OF 2

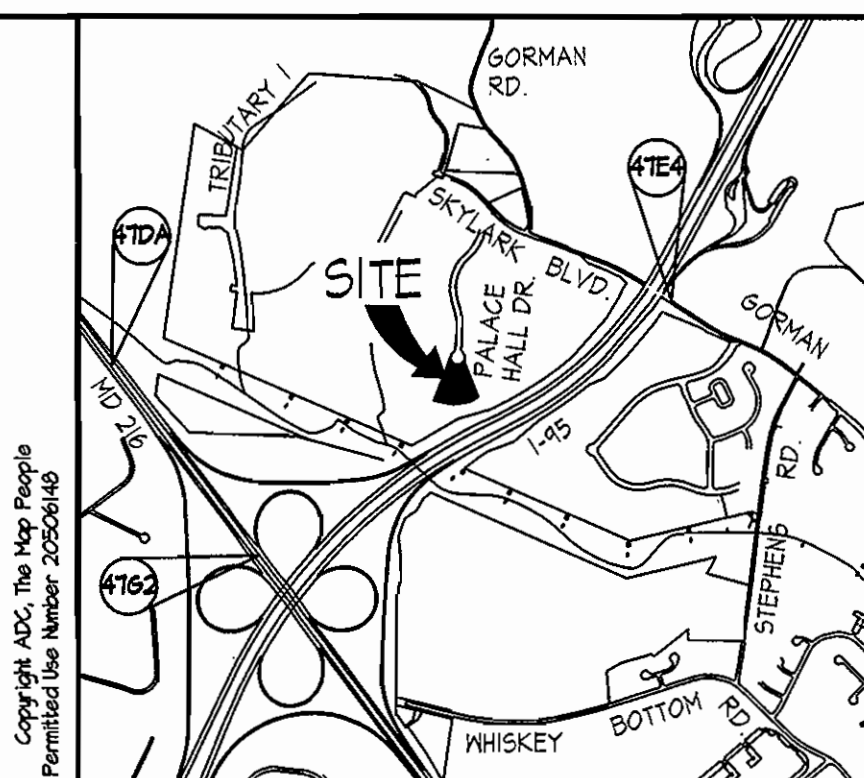




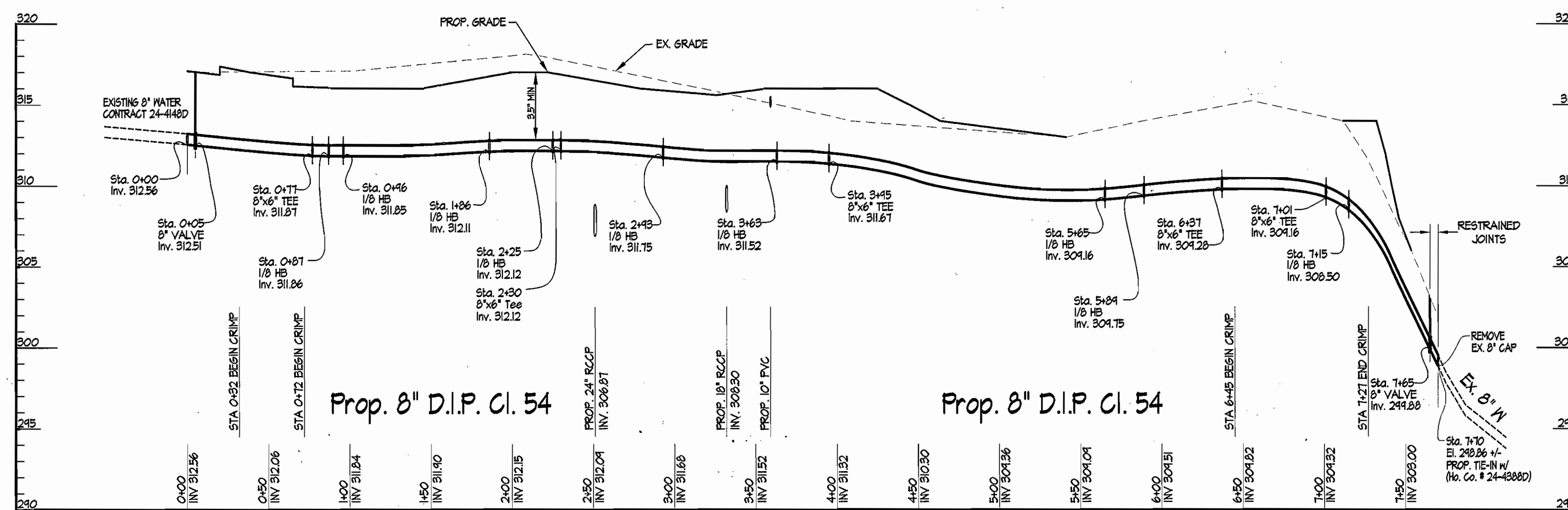
**8" SANITARY PROFILE**

SCALE: HOR. 1" = 50'  
VERT. 1" = 5'

DESCRIPTION	NORTHINGS	EASTINGS
8" VALVE	55543.62	183005.53
8"x6" TEE	555011.85	183025.16
6" VALVE	555012.06	183025.41
1/8 BEND	555061.81	183025.80
1/8 BEND	555055.12	183011.85
1/8 BEND	555044.31	183018.04
1/8 BEND	555020.68	183011.82
8"x6" TEE	555015.28	183025.14
6" VALVE	555015.44	183025.41
1/8 BEND	554452.43	183025.83
1/8 BEND	554405.80	183018.30
8"x6" TEE	554401.10	183005.60
6" VALVE	554411.41	183005.33
1/8 BEND	554417.64	183020.36
1/8 BEND	554456.42	183025.01
1/8 BEND	554455.21	183024.19
8"x6" TEE	555055.16	183025.48
6" VALVE	555056.86	183024.80
1/8 BEND	555061.52	183024.08
6" VALVE	555074.31	183026.31



Vicinity Map  
SCALE: 1" = 1000'



**8" WATER PROFILE**

SCALE: HOR. 1" = 50'  
VERT. 1" = 5'

**AS BUILT**  
DATE: DECEMBER 2008

Reviewed for Howard Soil Conservation District and meets technical requirements

Howard Soil Conservation District Date  
This development plan is approved for soil erosion and sediment control by the Howard Soil Conservation District.  
Approved: *[Signature]* 4/10/08  
Howard Soil Conservation District Date



ADDRESS CHART	
PARCEL #	STREET ADDRESS
A	2845 Palace Hall Drive
SUPERVISION NAME	SECTION / AREA
Parkview @ Emerson	3 / 4
FLAT No. of L.P.	TAX MAP
5204/230	41
ELECT. DIST.	ZONE
6	REC. NO. 3
WATER CODE	SEWER CODE
K01	5412000
OWNER / PETITIONER	EMERSON, L.L.P.
	218 N. Charles St.
	Suite 200
	Baltimore, MD 21201
	Phone: (410) 385-9428

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND  
*[Signature]* R. S. Gemin 4/10/08  
BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING & ZONING  
HOWARD COUNTY, MARYLAND  
*[Signature]* 4/10/08  
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

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(410) 683-3388 • Fax (410) 683-3389

DES: K.R.K.  
DRN: G.L.K.  
CHK: K.R.K.  
DATE: 04/10/08

REVISION	DATE	MAP NO. 41	PARCEL 1061

**WATER & SEWER  
PLAN & PROFILE**

CONTRACT NO. 24-4416-D  
**Parkview @ Emerson**  
Section 3, Area 4, Parcel A, Lot 1  
6th ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
SCALE: AS SHOWN  
SHEET 2 OF 2