

**GENERAL NOTES**

- PART I - GENERAL**
- Approximate location 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.
  - Topographic field surveys were performed on February 2007 by Walker Land Surveys, LLC.
  - Horizontal and Vertical 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. 43EB and 43G6. All vertical controls are based on NAVD '88. Vertical controls provided on the drawings are Howard County Geodetic Control Stations No. 43EB and 43G6.
  - All pipe elevations shown are invert elevations unless otherwise noted on the plans.
  - Clear all utilities by a minimum of 12". Clear all poles by 5'-0" minimum or tunnel as required. The owner has contacted the utility companies and has made arrangements for bracing of poles as shown on 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.
  - 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.
  - Where test pits have been made on existing utilities, they are noted by the symbol at the location of the test pit. 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	1-800-252-1133
BGE (Construction Services)	410-850-4620
BGE (Underground Damage Control)	410-787-9068
Bureau of Utilities	410-313-4900
Colonial Pipeline Company	410-795-1930
Miss Utility	1-800-267-7777
State Highway Administration	410-531-5533
Verizon	1-800-743-0033/410-224-9210
  - 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 line of excavation. Payment for such removal shall be included in the unit price bid for the construction of the main.
  - 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/lacking operation in county roads for laying mains or house connections. The approval of these drawings will constitute compliance with DPM requirements per Section 18.114(a) of the Howard County Code.
  - Property zoned "R-5C" per 02/02/04 Comprehensive Zoning Plan.
  - There are no floodplains, historic structures or cemeteries on-site.
  - Public water and public sewer are proposed to tie into existing Contract #24-3201-D, #24-3203-D, #76-S, 76-W.

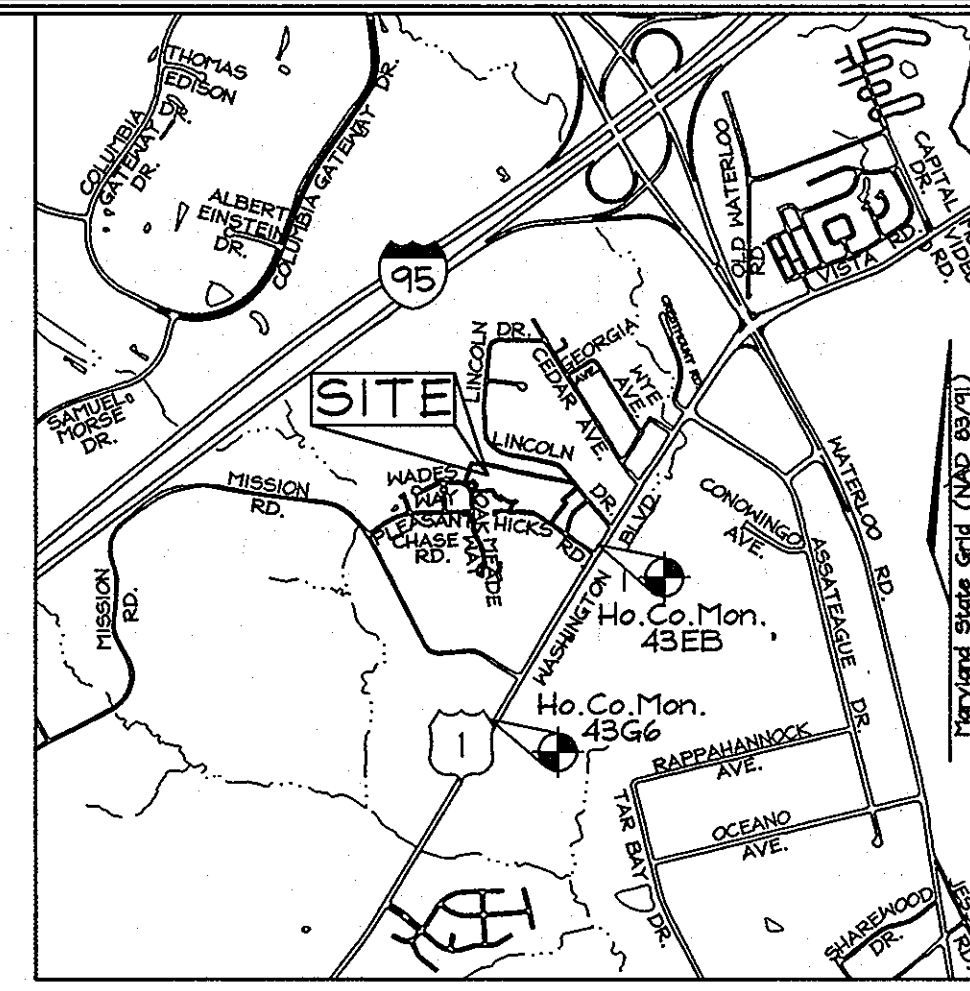
- PART II - WATER**
- All water mains to be C-900 P.V.C. unless otherwise noted.
  - Tops of all water mains to have a minimum of 3'-6" of cover unless otherwise noted.
  - Valves adjacent to tees shall be strapped to tees.
  - All fittings shall be buttressed or anchored with concrete in accordance with the 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. Soil around Fire Hydrant shall be compacted in accordance with Section 1000 and 1005 of the Standard Specifications.
  - The Contractor shall not operate any water main valves on the existing water system.
  - All water house connections shall be for outside meter settings unless otherwise noted on the Plans or in the Specifications.
  - The construction of the C-900 PVC water main must be in accordance with all applicable Howard County Design Standards, and to the satisfaction of the Howard County Inspector. Refer to the following Howard County Design Manual sections: 1002.02.06, 1002.03.04, 1002.05.02, and Details C-5.01 through 5.04, C-1.02, C-2.01 through C-2.14, and C-3.02. (Other Howard County Design Standards may also apply)
  - Fire Sprinkler systems for all single family dwellings shall have a minimum of a 1-1/2" connection with a 1" meter.
  - Unless otherwise noted on the plans or in the specifications, seventeen (17) pound sacrificial anodes shall be installed on all valves and metallic fittings used with PVC water mains in accordance with Volume IV, Standard Specifications and Details for Construction. Magnesium anodes shall be installed on all valves and ductile iron fittings including restraints and harnesses. Zinc anodes shall be installed on all stainless steel fittings and saddles used with PVC mains. All "tees" used with PVC mains shall be ductile iron.

- PART III - SEWER**
- All sewer mains shall be 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 W.T. in plan and profile shall have watertight frame & covers, Standard Detail G-5.52.
  - House(s) with the symbol "C.N.S." indicates that cellar cannot be served.

# FINAL PUBLIC WATER AND SEWER PLANS

# PLEASANT CHASE PHASE IV

## LOT 144 THRU 176 AND OPEN SPACE LOTS 177 AND 178 A RESUBDIVISION OF PLEASANT CHASE, PHASE 3, LOT 112 AND PHASES 3 AND 4, LOT 143 AND LOTS 9 - 12 & 14 OF ONE SPOT HEIGHTS HOWARD COUNTY, MARYLAND CONTRACT NO. 24-4625-D

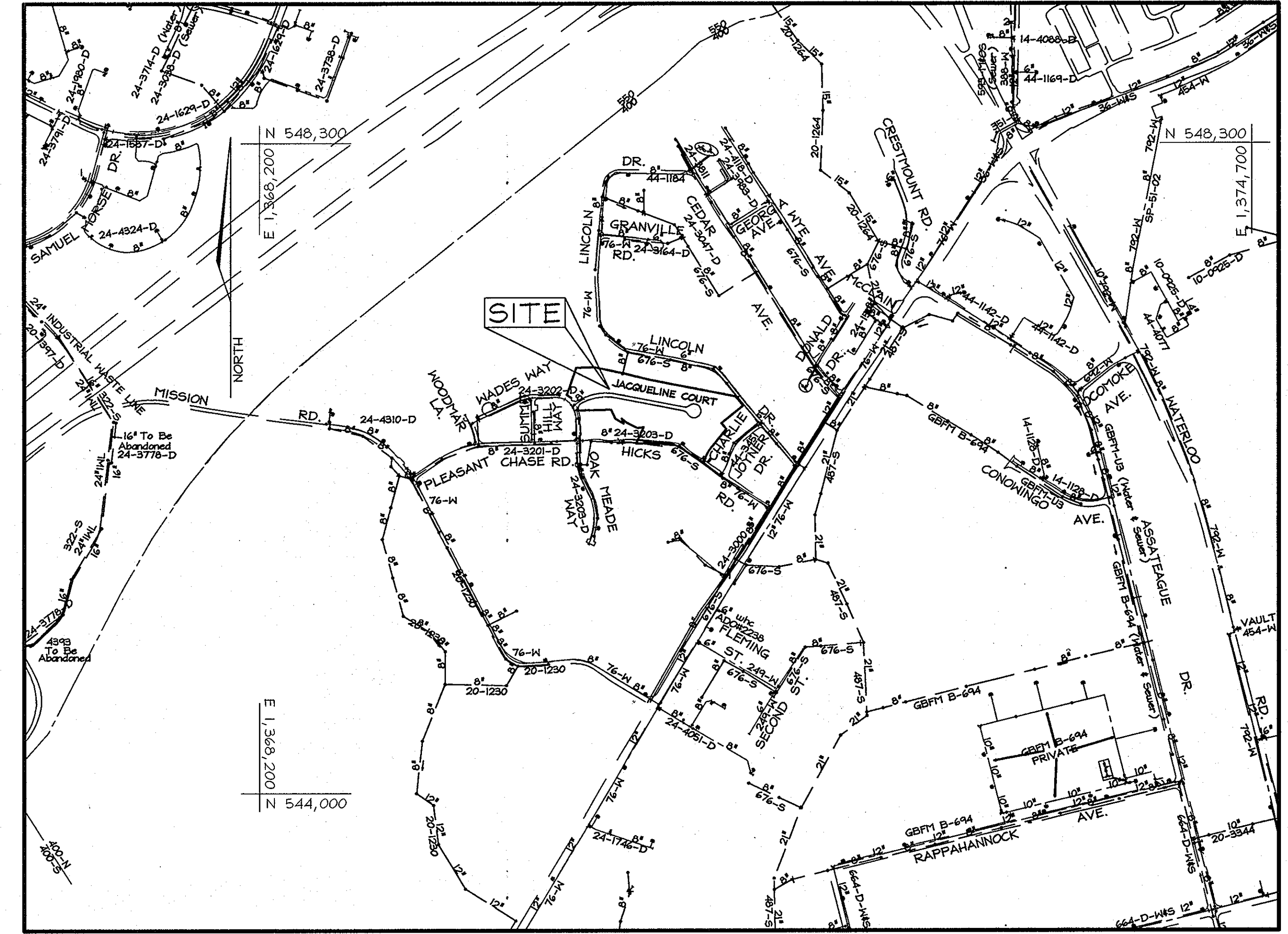


**LEGEND**

R/W Line	---
Property Line	---
Easement Line	---
Ex. Sewer Line	○
Prop. Sewer Line	○
Ex. Water Line	---
Prop. Water Line	---
Ex. F.H.	⊕
Prop. F.H.	⊕
Stream	---

**GEODETIC SURVEY CONTROLS**

Howard County Monument 43EB	N 545,963.6476	E 1,371,573.8400	El.: 216.33
Howard County Monument 43G6	N 544,117.5286	E 1,370,550.8447	El.: 219.48



**WATER HOUSE CONNECTION AS-BUILT LOCATION TABLE**

LOT NUMBER	ADDRESS	LOCATION DIMENSION 1	LOCATION DIMENSION 2
144	JACQUELINE COURT		
145	JACQUELINE COURT		
146	JACQUELINE COURT		
147	JACQUELINE COURT		
148	JACQUELINE COURT		
149	JACQUELINE COURT		
150	JACQUELINE COURT		
151	JACQUELINE COURT		
152	JACQUELINE COURT		
153	JACQUELINE COURT		
154	JACQUELINE COURT		
155	JACQUELINE COURT		
156	JACQUELINE COURT		
157	JACQUELINE COURT		
158	JACQUELINE COURT		
159	JACQUELINE COURT		
160(161 twin)	JACQUELINE COURT		
162	JACQUELINE COURT		
163	HICKS ROAD		
164	HICKS ROAD		
165	JACQUELINE COURT		
166	JACQUELINE COURT		
167	JACQUELINE COURT		
168	HICKS ROAD		
169	HICKS ROAD		
170	HICKS ROAD		
171	JACQUELINE COURT		
172	JACQUELINE COURT		
173	JACQUELINE COURT		
174	JACQUELINE COURT		
175	JACQUELINE COURT		
176	JACQUELINE COURT		

**SEWER HOUSE CONNECTION AS-BUILT LOCATION TABLE**

LOT NUMBER	ADDRESS	LOCATION DIMENSION 1	LOCATION DIMENSION 2
144	JACQUELINE COURT		
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147	JACQUELINE COURT		
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149	JACQUELINE COURT		
150	JACQUELINE COURT		
151	JACQUELINE COURT		
152	JACQUELINE COURT		
153	JACQUELINE COURT		
154	JACQUELINE COURT		
155	JACQUELINE COURT		
156	JACQUELINE COURT		
157	JACQUELINE COURT		
158	JACQUELINE COURT		
159	JACQUELINE COURT		
160	JACQUELINE COURT		
161	JACQUELINE COURT		
162	JACQUELINE COURT		
163	HICKS ROAD		
164	HICKS ROAD		
165	JACQUELINE COURT		
166	JACQUELINE COURT		
167	JACQUELINE COURT		
168	HICKS ROAD		
169	HICKS ROAD		
170	HICKS ROAD		
171	JACQUELINE COURT		
172	JACQUELINE COURT		
173	JACQUELINE COURT		
174	JACQUELINE COURT		
175	JACQUELINE COURT		
176	JACQUELINE COURT		

**QUANTITIES**

ITEMS	QUANTITIES ESTIMATED	AS-BUILT		
		QUANTITIES	TYPE	MANUFACTURER/SUPPLIER
MANHOLE	7			
8" PVC SEWER	1,064 L.F.			
8" DIP SEWER	58 L.F.			
4" SHC	1,060 L.F.			
8" WATER C-900 PVC	777 L.F.			
6" DIP WATER	117 L.F.			
1-1/2" WHC	815 L.F.			
2" WHC	34 L.F.			
FIRE HYDRANT	3			
8" COUPLER	1			
1/32 H.B.	4			
Vertical Joints (for deflection)	6			

**TYPE OF BUILDING:** RESIDENTIAL

**NO. OF LOTS/PARCELS:** 33

**NO. OF WATER HOUSE CONNECTIONS:** 33

**NO. OF SEWER HOUSE CONNECTIONS:** 33

**DRAINAGE AREA:** LITTLE PATUXENT

**TREATMENT PLANT:** PATUXENT

**TEST GRADIENT:** 550

**WATER ZONE:** 400

**SHEET INDEX**

COVER SHEET	DESCRIPTION	SHEET No.
	WATER AND SEWER PLAN	1 of 5
	WATER MAIN PROFILE	2 of 5
	SEWER MAIN PROFILE	3 of 5
	EXISTING CONDITIONS PLAN	4 of 5

SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 306 OF THE STANDARD SPECIFICATIONS AND WITH ROAD CONSTRUCTION PLANS F-10-037

THIS DEVELOPMENT IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.

*[Signature]* 7/13/10 DATE

**OWNER/DEVELOPER**  
 J L N Development, LLC  
 46 Poplar Point Road  
 Edgewater, Maryland 21037  
 (410)224-7575 Fax(410)224-4774

DEPARTMENT OF PUBLIC WORKS  
 HOWARD COUNTY, MARYLAND

*[Signature]* DATE

DEPARTMENT OF PLANNING & ZONING  
 HOWARD COUNTY, MARYLAND

*[Signature]* DATE

**FSH Associates**  
 Engineers Planners Surveyors  
 6339 Howard Lane Elkridge, MD 21075  
 Tel:410-567-5200 Fax: 410-796-1562  
 E-mail: info@fshri.com

DESIGN BY: CRH2  
 DRAWN BY: CRH2  
 CHECKED BY: ZTF  
 DATE: June 10, 2010

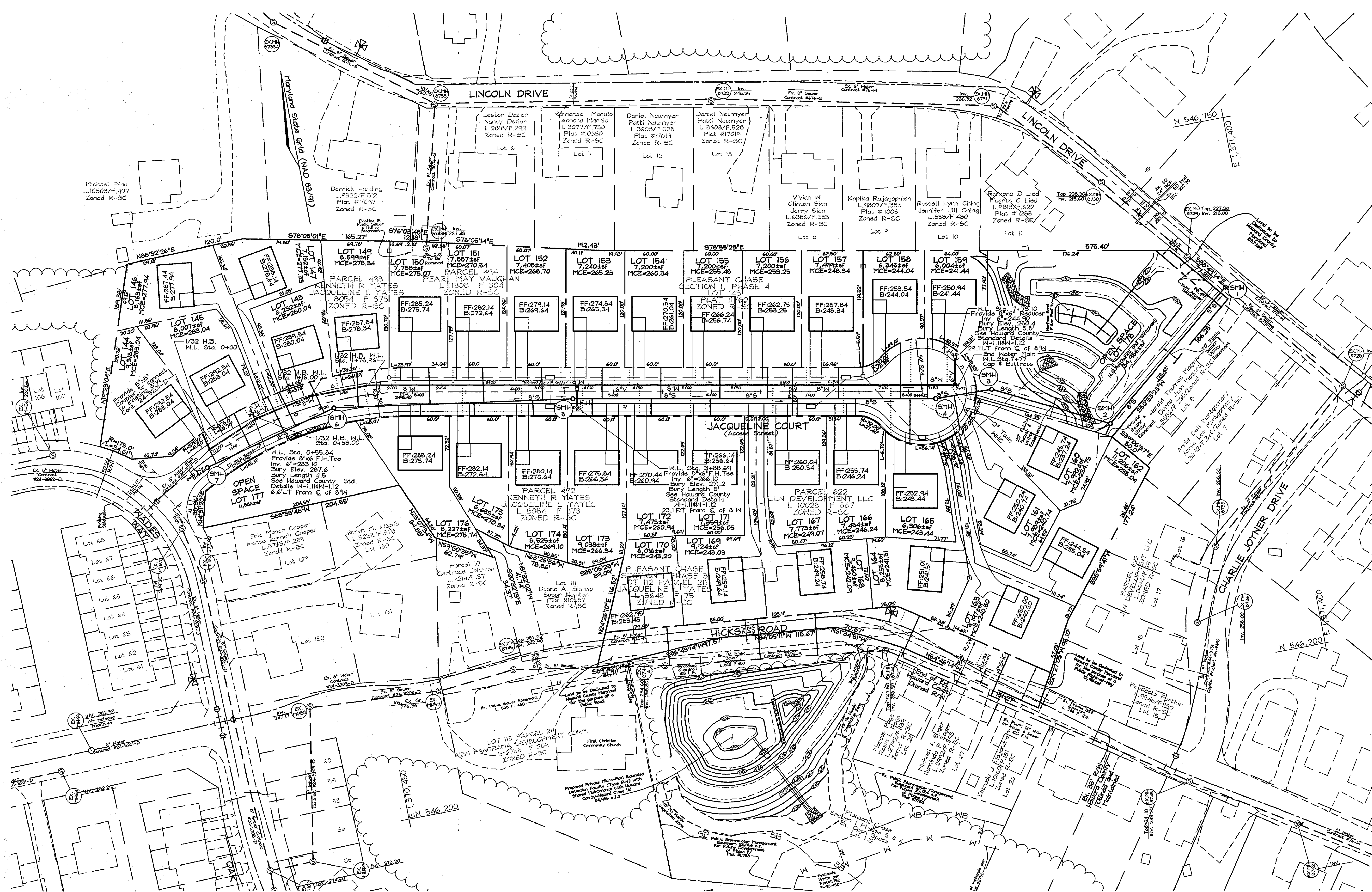
BY	NO.	REVISION	DATE

**FINAL PUBLIC WATER AND SEWER COVER SHEET**

600' SCALE MAP NO.: 43 BLOCK NO.: 8

**PLEASANT CHASE PHASE IV**  
 LOTS 144 THRU 176 AND OPEN SPACE LOTS 177 AND 178  
 (A RESUBDIVISION OF PLEASANT CHASE, PHASE 3, LOT 112 AND PHASES 3 AND 4, LOT 143 AND LOTS 9-12 & 14 OF ONE SPOT HEIGHTS)  
**CONTRACT NO. 24-4625-D**  
 TAX MAP #43 PARCELS 168, 227, 423, 165, 382, 226  
 6TH ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND

SCALE AS SHOWN  
 SHEET NO. 1 OF 5



PLAN VIEW

OWNER/DEVELOPER  
 J L N Development, LLC.  
 46 Poplar Point Road  
 Edgewater, Maryland 21037  
 (410)224-7575 Fax:(410)224-4774

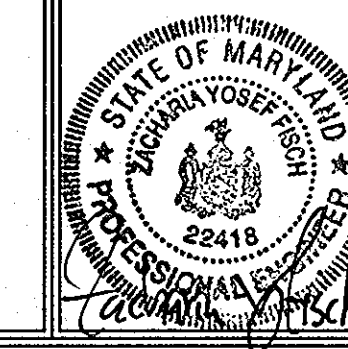
DEPARTMENT OF PUBLIC WORKS  
 HOWARD COUNTY, MARYLAND

*John C. Green*  
 CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING & ZONING  
 HOWARD COUNTY, MARYLAND

*John D. Williams*  
 CHIEF, DEVELOPMENT ENGINEERING DIVISION

**FSH Associates**  
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 Tel:410-567-5200 Fax:410-796-1952  
 E-mail: info@fshri.com



DESIGN BY: CRH2  
 DRAWN BY: CRH2  
 CHECKED BY: ZYF  
 DATE: June 10, 2010

BY NO.	REVISION	DATE

FINAL PUBLIC  
 WATER AND SEWER  
 PLAN SHEET

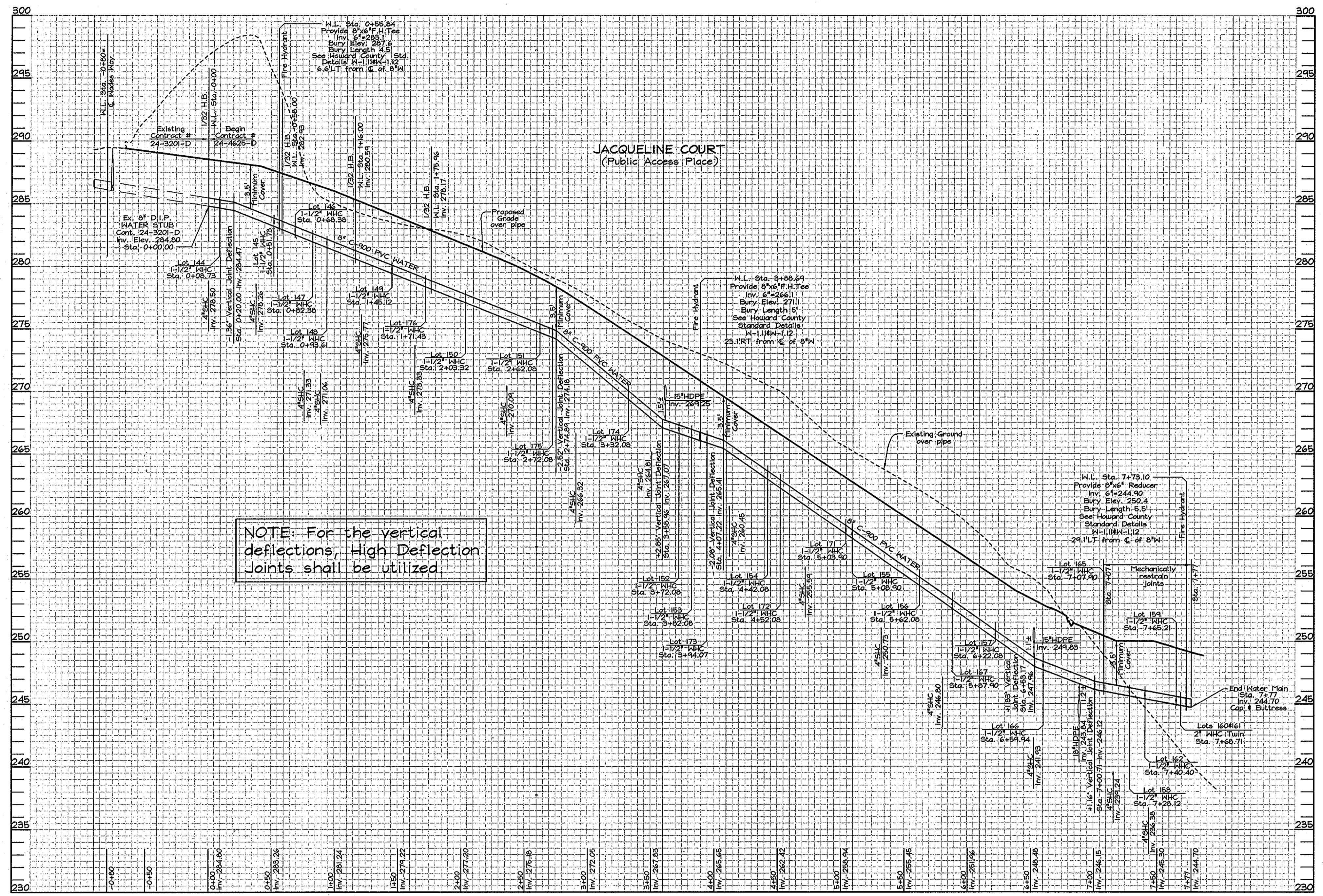
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CONTRACT NO. 24-4625-D  
 PARCELS 143, 211, 492, 493, 494, 622  
 HOWARD COUNTY, MARYLAND

SCALE  
 1"=50'

SHEET NO.  
 2 OF 5



**WATER MAIN LOCATION CHART**

FEATURE / DESCRIPTION	WATER STA.	COORDINATES
8"x8" Coupler & 1/32 H.B.	0+00.00	N 546,612.73 E 1,370,323.47
Vertical Joint Deflection	0+20.00	N 546,620.40 E 1,370,341.94
Fire Hydrant Tee	0+55.84	N 546,634.14 E 1,370,375.04
Fire Hydrant	0+55.84	N 546,640.23 E 1,370,372.51
1/32 H.B.	0+58.00	N 546,634.97 E 1,370,377.03
1/32 H.B.	1+16.00	N 546,646.34 E 1,370,433.91
1/32 H.B.	1+75.96	N 546,646.39 E 1,370,493.87
Vertical Joint Deflection	2+74.89	N 546,627.52 E 1,370,590.98
Vertical Joint Deflection	3+58.96	N 546,611.48 E 1,370,673.51
Fire Hydrant Tee	3+88.64	N 546,605.81 E 1,370,702.64
Fire Hydrant	3+88.64	N 546,583.13 E 1,370,698.28
Vertical Joint Deflection	4+07.22	N 546,602.27 E 1,370,720.88
Vertical Joint Deflection	6+53.17	N 546,555.95 E 1,370,962.31
Vertical Joint Deflection	7+00.71	N 546,546.29 E 1,371,008.98
Fire Hydrant Tee	7+73.10	N 546,532.48 E 1,371,080.04
Fire Hydrant	7+73.10	N 546,560.99 E 1,371,085.58
End Water Main (Cap & Buttress)	7+77.00	N 546,531.73 E 1,371,083.87

\* NOTE: Prior to the installation of the proposed water main, the contractor shall test pit to verify the location and invert elevation of the end of the existing 8" DIP Stub. The contractor shall contact the engineering immediately with any discrepancies.

**WATER MAIN PROFILE**  
SCALE: HORIZONTAL: 1"=50'  
VERTICAL: 1"=5'

**OWNER/DEVELOPER**  
J L N Development, LLC.  
46 Poplar Point Road  
Edgewater, Maryland 21037  
(410)224-7575 Fax:(410)224-4774

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

*S.H. C. Co.*  
CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING & ZONING  
HOWARD COUNTY, MARYLAND

*[Signature]*  
CHIEF, DEVELOPMENT ENGINEERING DIVISION

**FSH Associates**  
Engineers Planners Surveyors  
6339 Howard Lane Elkridge, MD 21075  
Tel: 410-567-5200 Fax: 410-796-1562  
E-mail: info@fsh.net



DESIGN BY: CRH2  
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CHECKED BY: ZYF  
DATE: June 10, 2010

BY	NO.	REVISION	DATE

**FINAL PUBLIC WATER MAIN PROFILE**

600' SCALE MAP NO.: 43 BLOCK NO.: 8

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PARCELS 143, 211, 492, 493, 494, 622  
HOWARD COUNTY, MARYLAND

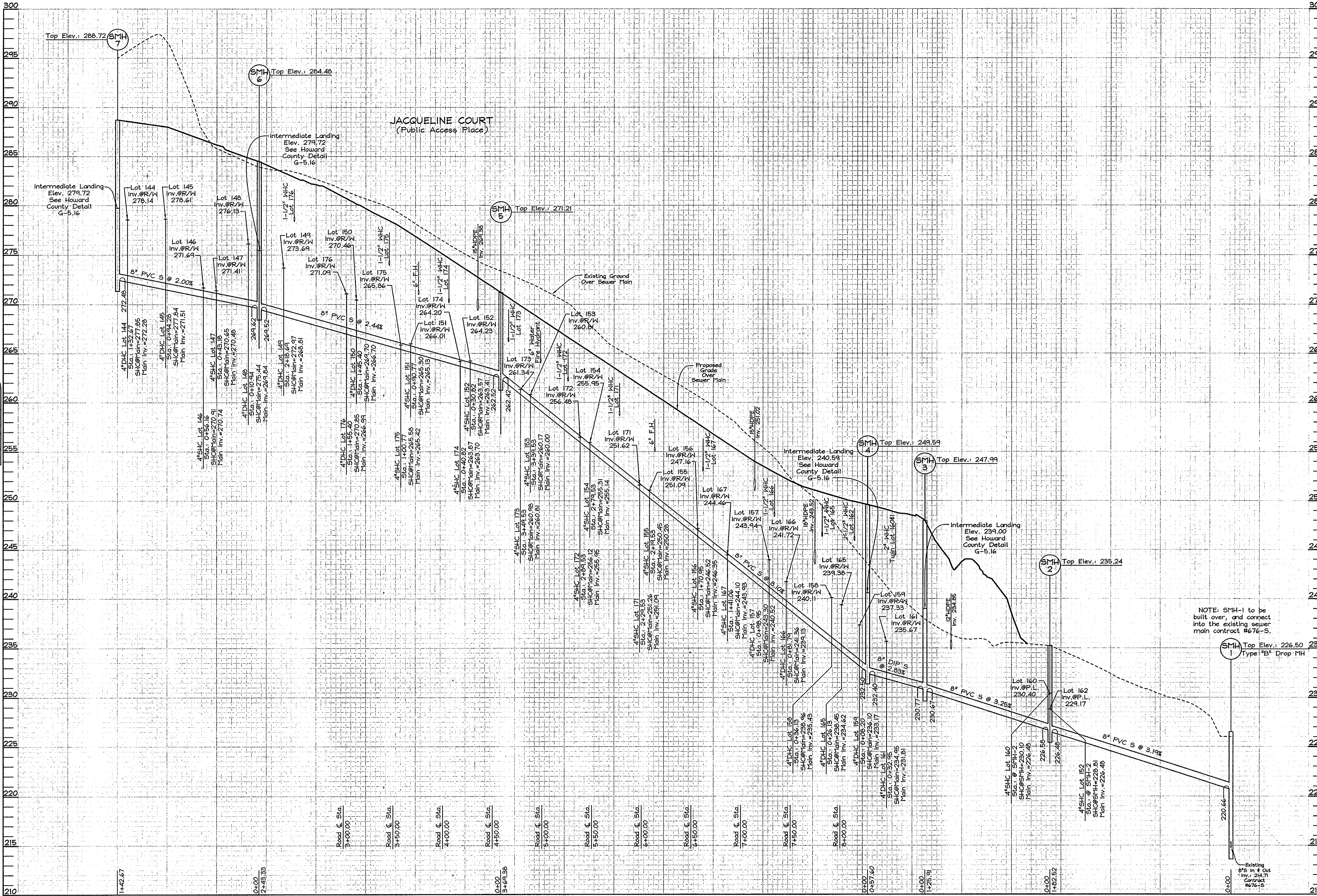
SCALE  
AS SHOWN

SHEET NO.  
3 OF 5

SEWER HOUSE CONNECTION CHART						
Lot No.	8" Sewer Main Inv. @ SHC	House Connect Type	4" SHC Inv. @ 8" Sewer Main	SHC Inv. @ Right-of-Way Line	MINIMUM CELLAR ELEVATION	DESIGNED BASEMENT ELEVATION
144	272.28	Drop	277.85	278.54	285.04	283.04
145	271.51	Drop	277.84	278.61	283.04	283.04
146	270.74	Standard	270.91	271.69	277.94	277.94
147	270.48	Standard	270.65	271.41	277.33	278.64
148	269.84	Drop	275.44	276.13	280.04	280.04
149	269.91	Drop	272.97	273.64	278.34	278.34
150	266.70	Drop	268.70	270.46	275.07	275.74
151	265.13	Standard	265.30	266.01	270.54	272.64
152	263.41	Standard	263.57	264.23	268.70	269.64
153	260.00	Standard	260.17	260.81	265.23	265.34
154	255.14	Standard	255.31	255.95	260.34	261.04
155	250.28	Standard	250.45	251.09	255.48	256.74
156	246.95	Standard	246.52	247.16	251.54	253.25
157	240.82	Drop	243.30	243.94	248.34	248.34
158	235.43	Drop	238.96	240.11	244.04	244.04
159	233.17	Drop	236.10	237.33	241.44	241.44
160	226.48	SMH2	230.10	230.40	234.75	237.24
161	231.81	Drop	234.95	235.67	240.74	240.74
162	226.48	SMH2	229.81	229.17	235.04	235.04
** 163	235.62	Standard	235.45	236.37	240.50	240.50
** 164	236.71	Standard	236.54	237.47	241.51	241.51
165	234.62	Drop	238.45	239.38	243.44	243.44
166	234.13	Drop	241.36	241.72	246.24	246.24
167	243.93	Standard	244.10	244.46	249.07	250.54
** 168	237.48	Standard	237.31	238.17	242.04	244.24
** 169	237.98	Standard	237.81	238.64	243.03	244.64
** 170	238.76	Standard	238.59	239.39	243.20	243.45
171	251.04	Standard	251.26	251.62	256.05	256.64
172	255.95	Standard	256.12	256.48	260.94	260.94
173	260.81	Standard	260.98	261.34	266.34	266.34
174	263.70	Standard	263.87	264.20	269.10	270.64
175	265.42	Standard	265.58	265.86	270.54	272.64
176	266.99	Drop	270.85	271.09	275.74	275.74

\* Note: All S.H.C.'s are on a 2.0% slope, from sewer main to Right of Way line. All S.H.C.'s are on a 2.0% slope from Right of Way line to rear B.R.L., unless specified otherwise.  
 \*\* These Lots are sewer serviced by the existing sewer main under Hicks Road (Contract #676-S).

SEWER MANHOLE TABLE				
SMH #	COORDINATES	TOP MH ELEVATION	REMARKS	M.H. TYPE & Ho.Co. STD. DET.
1	N 546,578.52 E 1,371,364.12	226.50		TYPE 'B' DROP, S-1.32
2	N 546,461.46 E 1,371,225.54	235.24		STD., G-5.11
3	N 546,520.99 E 1,371,115.80	247.99	Intermediate Landing	STD., G-5.11
4	N 546,463.18 E 1,371,227.66	249.89	Intermediate Landing	STD., G-5.11
5	N 546,542.92 E 1,370,695.63	271.21		STD., G-5.11
6	N 546,630.03 E 1,370,455.14	284.48	Intermediate Landing	STD., G-5.11
7	N 546,544.38 E 1,370,317.01	288.72		TERMINAL, S-1.31



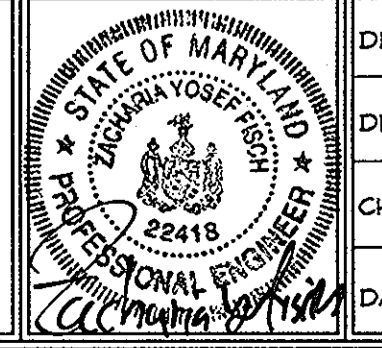
SEWER MAIN PROFILE  
 SCALE- HORIZONTAL: 1"=50'  
 VERTICAL: 1"=5'

OWNER/DEVELOPER  
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DEPARTMENT OF PUBLIC WORKS  
 HOWARD COUNTY, MARYLAND  
 Chief, Bureau of Utilities

DEPARTMENT OF PLANNING & ZONING  
 HOWARD COUNTY, MARYLAND  
 Chief, Development Engineering Division

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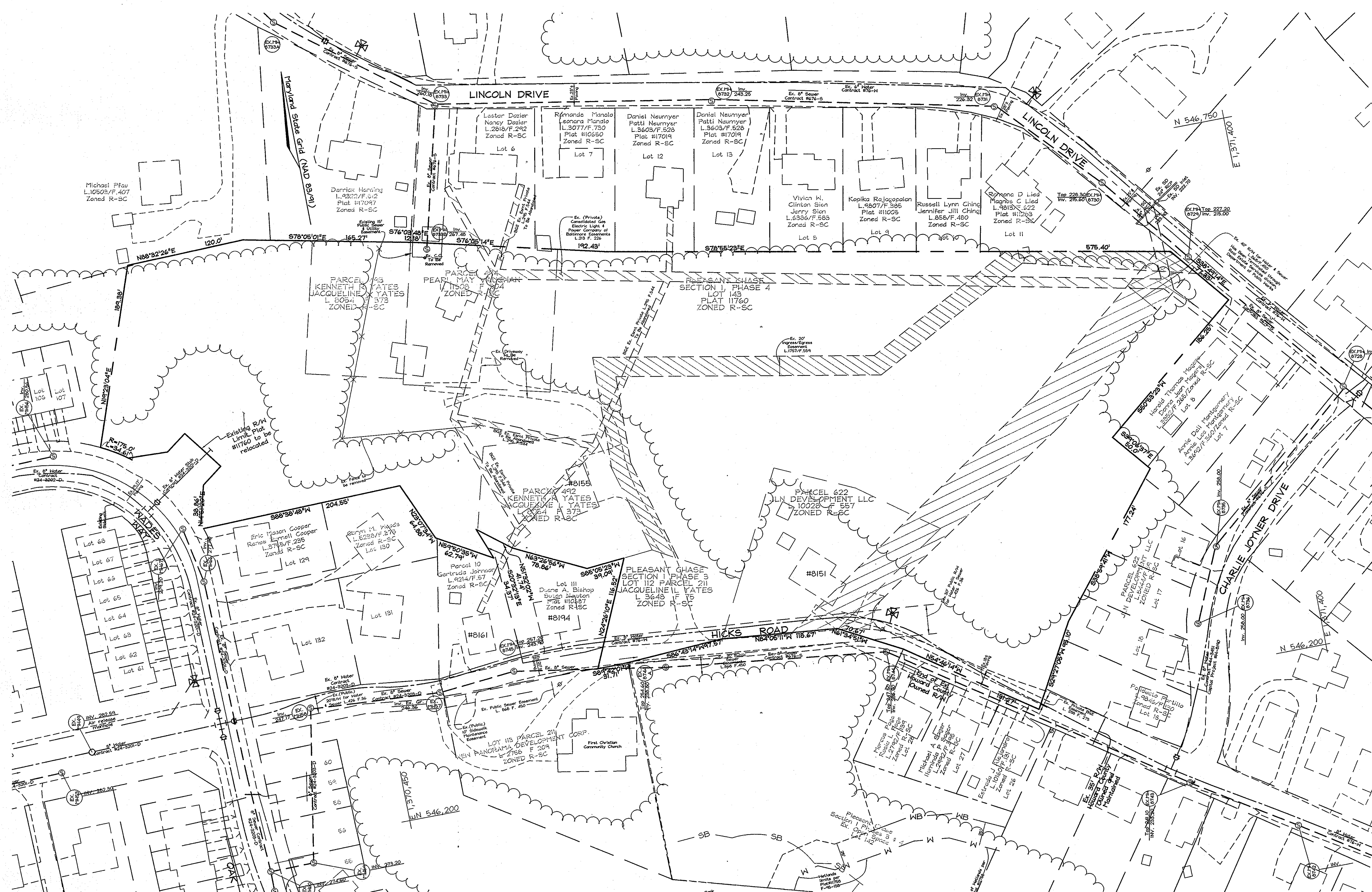
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FINAL PUBLIC  
 SEWER MAIN  
 PROFILE  
 600' SCALE MAP NO.: 43 BLOCK NO.: 8

PLEASANT CHASE PHASE IV  
 LOTS 144 THRU 176 AND OPEN SPACE LOTS 177 AND 178  
 (A RESUBDIVISION OF PLEASANT CHASE, PHASE 3, LOT 112 AND PHASES 3 AND 4, LOT 143 AND LOTS 9-12 & 14 OF ONE SPOT HEIGHTS)  
 CONTRACT NO. 24-4625-D  
 TAX MAP #43  
 6TH ELECTION DISTRICT  
 PARCELS 143, 211, 492, 493, 494, 622  
 HOWARD COUNTY, MARYLAND

SCALE  
 AS SHOWN  
 SHEET NO.  
 4 OF 5



PLAN VIEW

NOTE: ALL THE EXISTING HOUSES ON-SITE ARE TO BE REMOVED. THE WATER AND SEWER HOUSE CONNECTIONS THAT SERVED THE REMOVED HOUSES ARE TO BE FIELD LOCATED BY THE CONTRACTOR AND DISCONNECTED AND PLUGGED AT THE MAINS ALONG HICKS ROAD.

OWNER/DEVELOPER  
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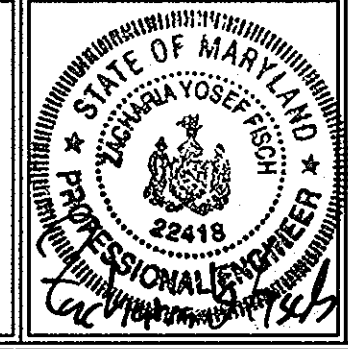
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FINAL PUBLIC  
 WATER AND SEWER  
 EXISTING CONDITIONS

600' SCALE MAP NO.: 43 BLOCK NO.: 8

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 HOWARD COUNTY, MARYLAND

SCALE  
 1"=50'

SHEET NO.  
 5 OF 5