

**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 obtained from a flown aerial survey taken with 2 foot contour intervals on March 30, 2005 performed by Hartford Aerial Survey.
- 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. 16DA and 16DC. 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  $\text{N}$  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	1-800-252-1133
BGE (Construction Services)	410-850-4620
BGE (Emergency)	410-781-4068
Bureau of Utilities	410-313-4000
Colonial Pipeline Co.	410-745-1940
Miss Utility	1-800-251-TTTT
State Highway Administration	410-531-5533
Verizon	1-800-743-0033/410-224-4210
- 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/jacking of any county road for laying water/sewer mains or house connections. The approval of these drawings will constitute compliance with DFM requirements per Section 18.114(a) of the Howard County Code.

**PART II WATER**

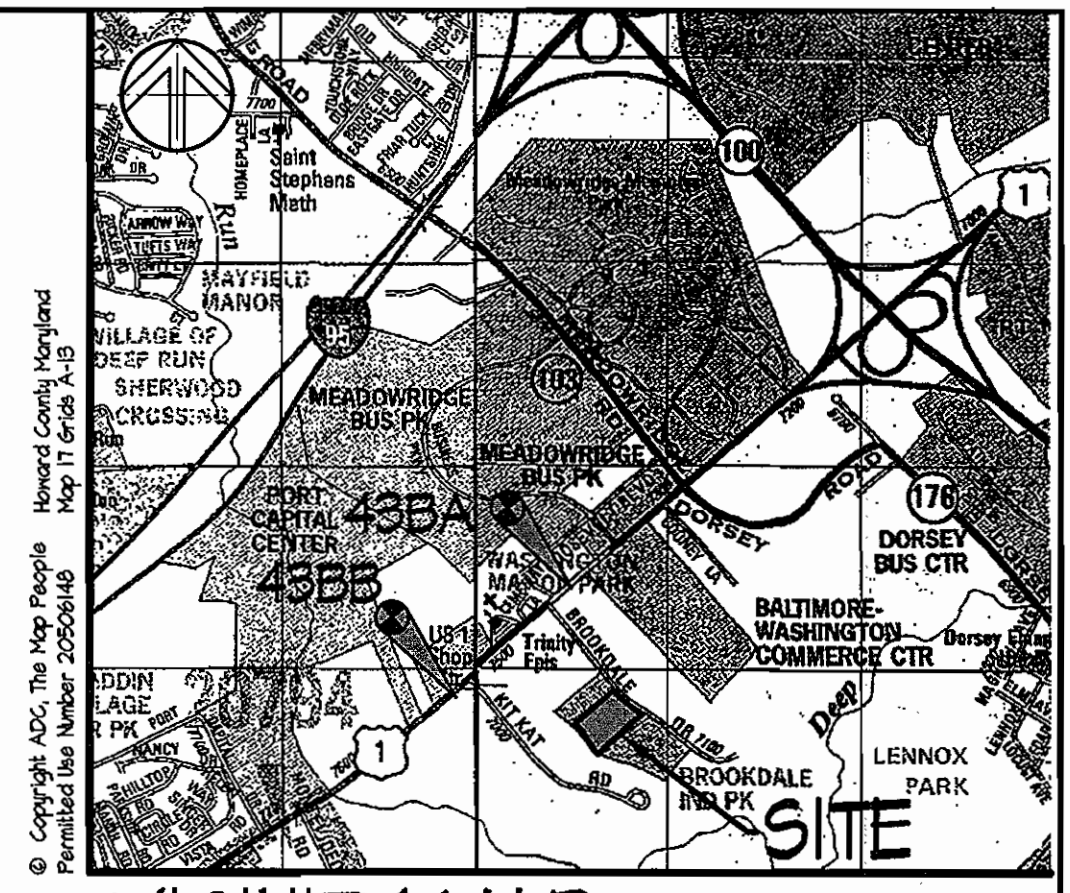
- All water mains shall be D.I.P. Class 54 unless otherwise noted.
- Tops of all water mains shall have a minimum of 3'-6" of cover unless otherwise noted.
- Valves adjacent to tees shall be strapped to tees.
- All fittings shall be buttressed or anchored with concrete in accordance with Standard Details 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 DIP only.
- Manholes shown with 12" and 16" walls are for brick manholes only.
- Manholes designated M.T. in plan and profiles shall have watertight frame and covers, Standard Detail 6552. Where watertight manhole frames and covers are used, set top of frame 16" above finished grade unless otherwise noted on drawings.
- House(s) with the symbol "C.N.S." indicates that cellar cannot be served.

# CONTRACT No. 14-4546-D Brookdale Industrial Park

## PARCEL A



VICINITY MAP 1"=2000'

**BENCHMARKS**

MONUMENT	NORTHING	EASTING	ELEVATION	HORIZ. DATUM	VERT. DATUM
43BA	550534.126	1516405.228	204.31	NAD83(91)	NAVD88
43BB	550676.391	1516106.415	204.50	NAD83(91)	NAVD88

**DRAWING INDEX**

SHEET #	DRAWING #	DRAWING TITLE
1 OF 2	NO.01	COVER SHEET
2 OF 2	NO.02	WATER AND SEWER PLAN & PROFILES

WATER CODE: BO1  
SEWER CODE: 2350000  
TEST GRADIENT:

**QUANTITIES**

ITEM	ESTIMATED QUANTITY	QUANTITY	TYPE	MANUFACTURER/SUPPLIER
6" WATER MAIN	12 L.F.			
8" WATER MAIN	594 L.F.			
FIRE HYDRANT (BURY 6'-0")	1 EA.			
FIRE HYDRANT (BURY 6'-6")	1 EA.			
8" X 6" TEE	2 EA.			
8" X 8" TEE	1 EA.			
6" VALVE	2 EA.			
8" VALVE	3 EA.			
12" X 8" TAPPING SLEEVE & VALVE	1 EA.			
6" SEWER HOUSE CONNECTION	60 L.F.			

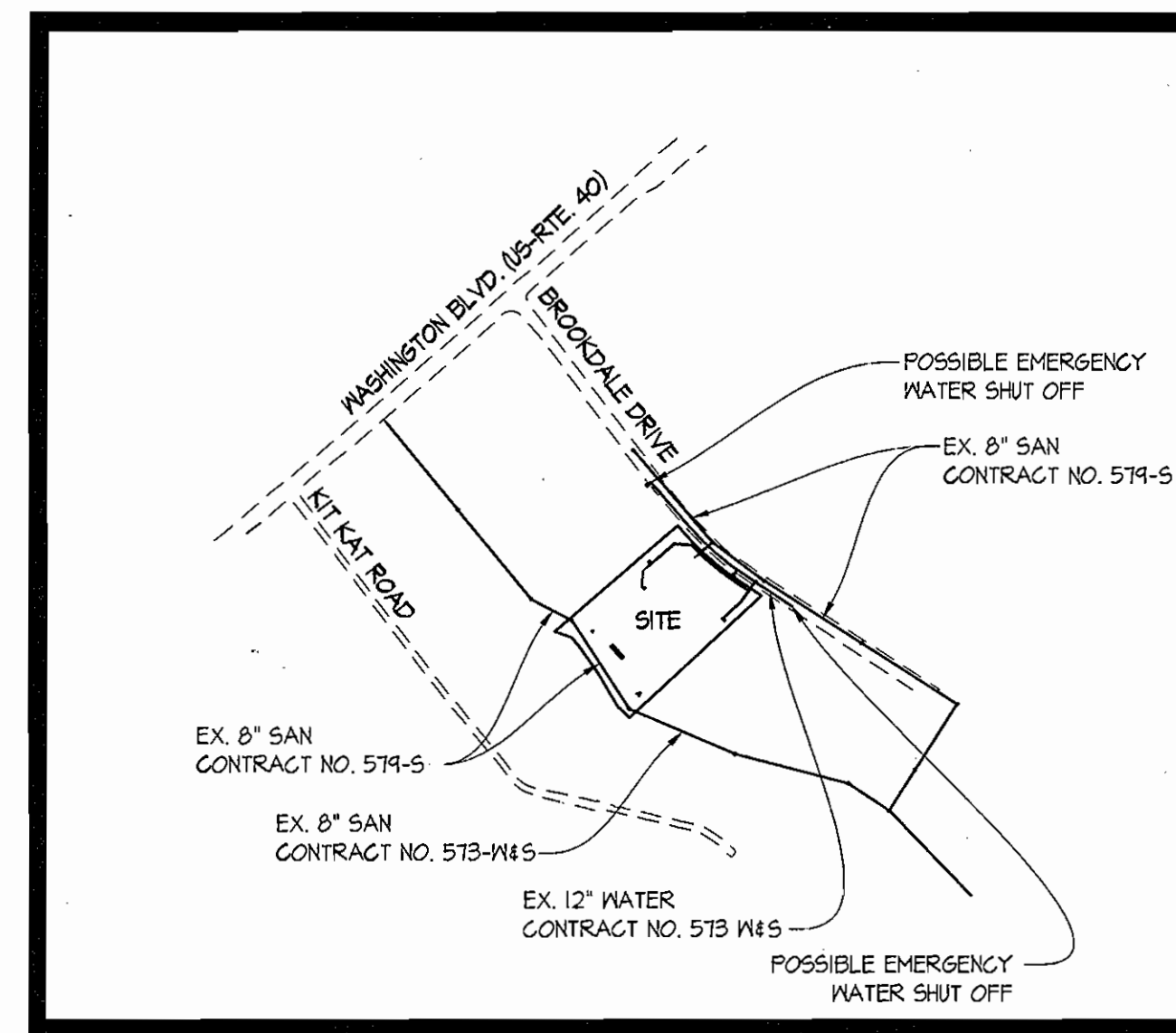
NAME OF UTILITY CONTRACTOR: \_\_\_\_\_  
SURVEY AND DRAFTING DIV. \_\_\_\_\_ CHECKBOX: AS-BUILT DATE: \_\_\_\_\_

**OWNER/DEVELOPER:**

KINSELY HOLDINGS, INC.  
6254 REYNOLDS HILL ROAD  
SEVEN VALLEYS, PA 17660  
CONTACT: MICHAEL D. JEFFERS  
PHONE NO. 717-741-8408

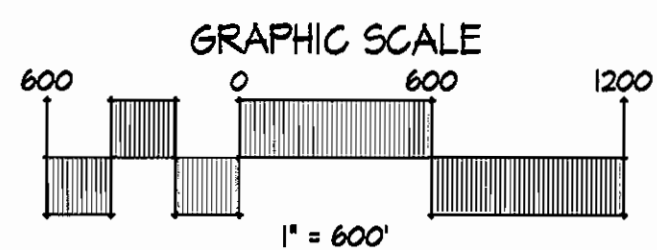
**SITE DATA:**

ADDRESS: 7010 BROOKDALE DRIVE  
SUBDIVISION NAME: BROOKDALE INDUSTRIAL PARK  
SECTION / AREA: N/A  
PARCEL No.: PARCEL A  
PLAT No.: 02160  
BLOCK No.: 4/5  
ZONE: CE  
TAX MAP No.: 43  
ELECTION DISTRICT: 1  
CENSUS TRACT: 601202  
200 SCALE MAP #: \_\_\_\_\_



LOCATION MAP  
SCALE: 1" = 600'

TYPE OF BUILDING:	60000 S.F. FLEX SPACE BUILDING
NUMBER OF LOTS:	1 PROP. BUILDING
NUMBER OF S.I.C.S.:	1
NUMBER OF M.H.C.S.:	1
AREA OF PARCEL:	217800 sq / 5.0 Ac.
SEWER SHED:	DORSEY RUN
TREATMENT PLANT:	N/A



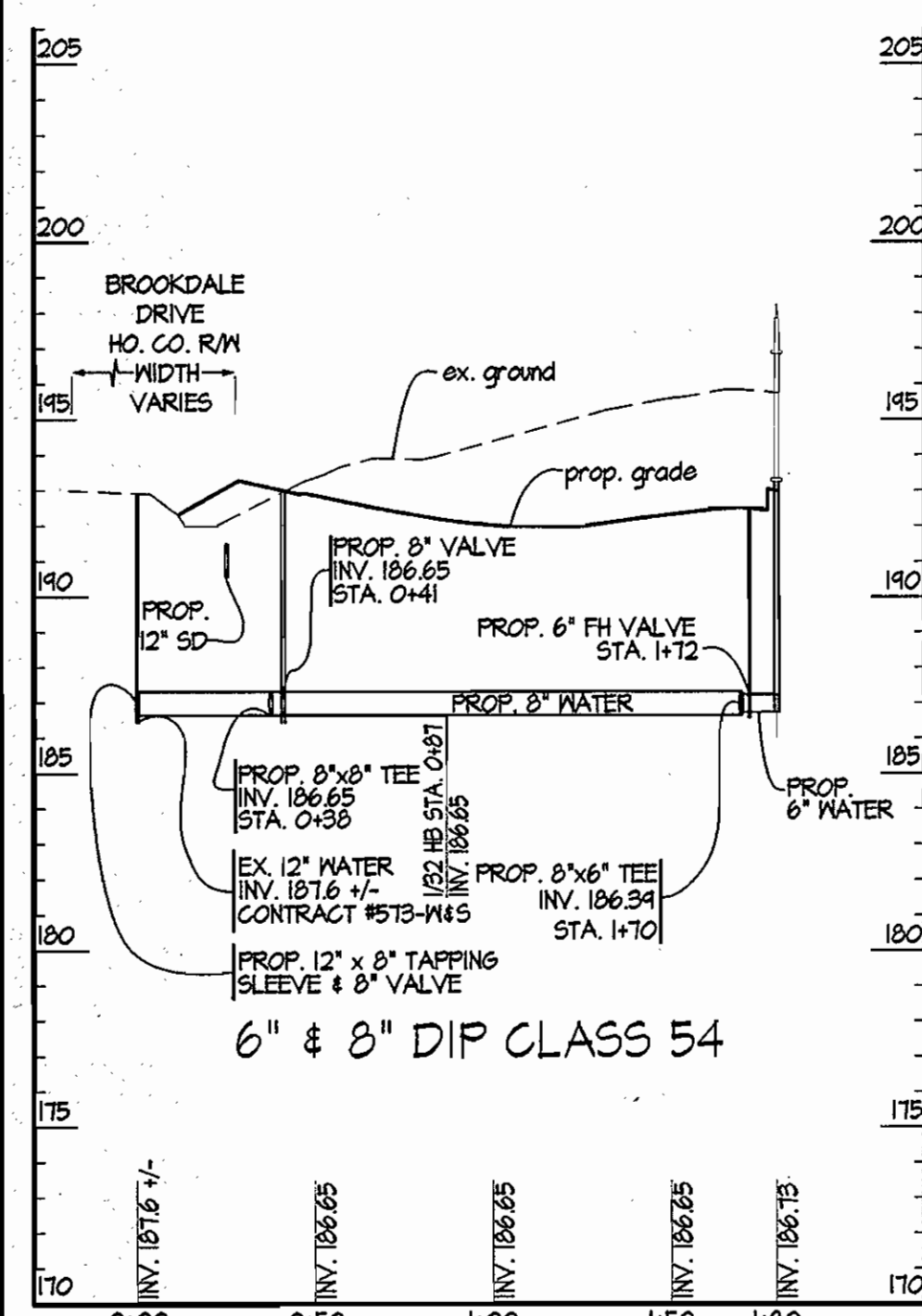
SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 214 OF THE SPECIFICATIONS AND AS SHOWN ON SDP-08-031

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

APPROVED: *John K. Robertson* 9/16/08  
HOWARD SOIL CONSERVATION DISTRICT DATE

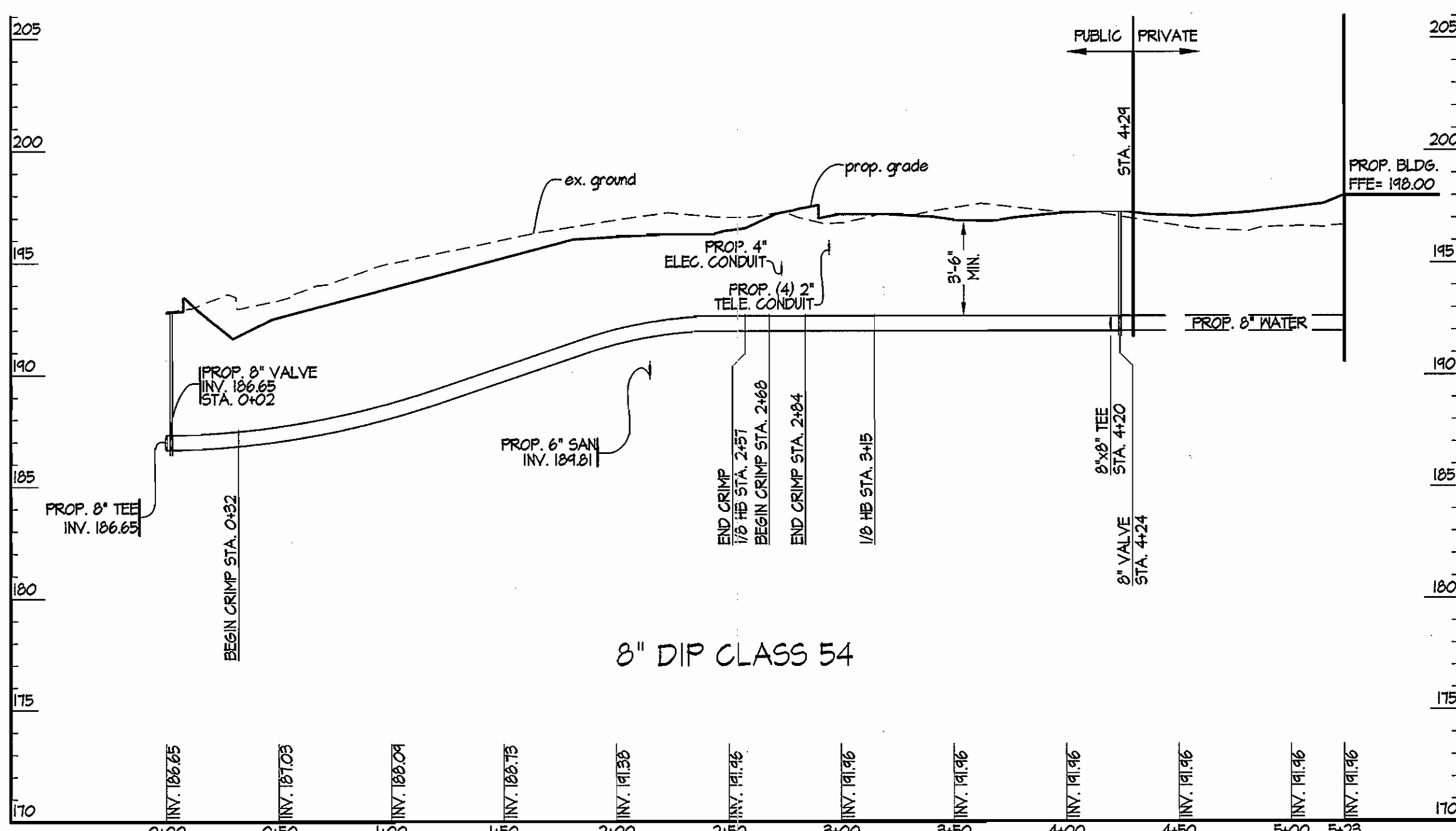
THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT. Plat #: F-08-166; SDP #: SDP-08-031

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND <i>Steve C. Coen</i> CHIEF, BUREAU OF UTILITIES DATE	DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND <i>Wm. J. Johnson</i> CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE	SITE RESOURCES incorporated Comprehensive Land Planning & Site Design Services 14307 Jarrettsville Pike, Phoenix, Maryland 21131 (410) 683-3388 • fax (410) 683-3389	DES: KPR DRN: AM CHK: KRK DATE: 08/21/08	BY NO. _____ REVISION _____ DATE _____	WATER AND SEWER PLAN 600' SCALE MAP NO. 43 BLOCK NO. 4/5	BROOKDALE INDUSTRIAL PARK PARCEL A 7010 BROOKDALE DRIVE 1st ELECTION DISTRICT HOWARD COUNTY, MARYLAND CONTRACT NO. 14-4546-D	NO.01 SCALE: AS SHOWN SHEET 1 OF 2
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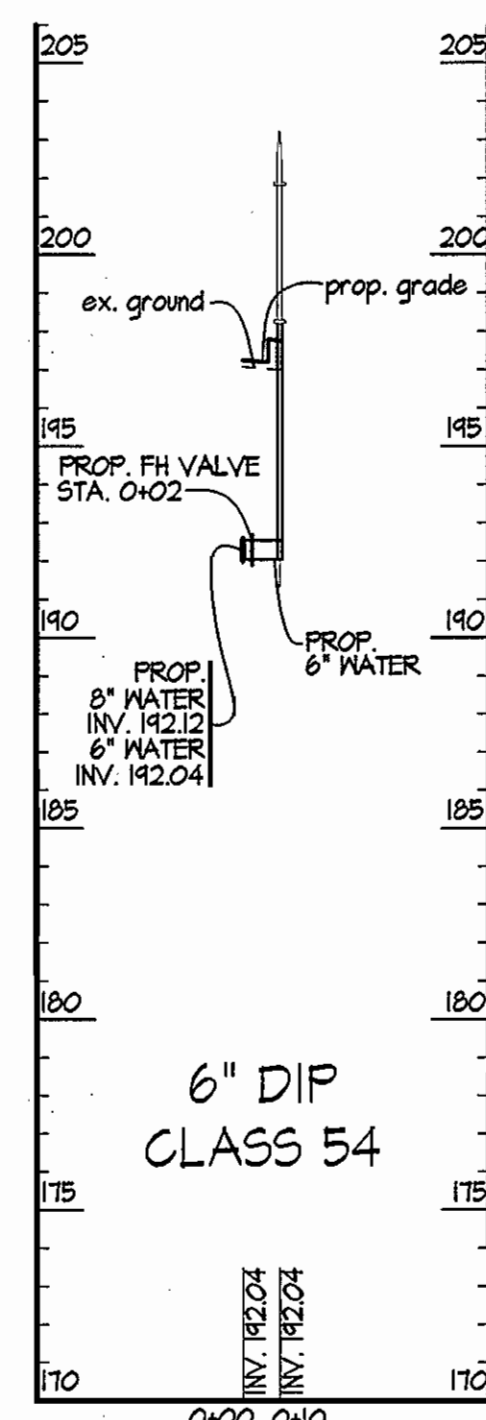
**1 WATER PROFILE #1**

SCALE: HORIZ: 1"=50'  
VERT: 1"=5'



**2 WATER PROFILE #2**

SCALE: HORIZ: 1"=50'  
VERT: 1"=5'



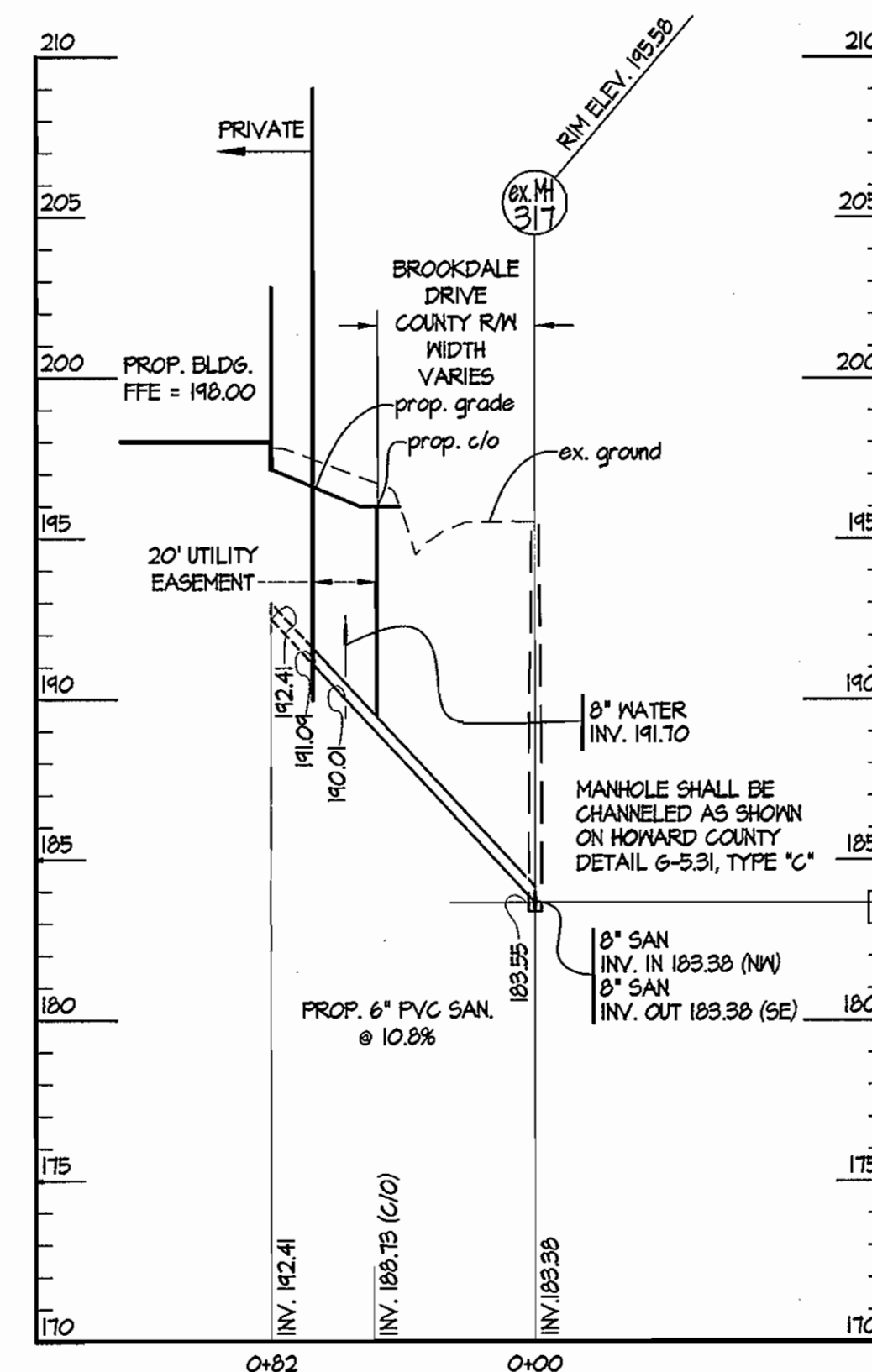
**3 WATER PROFILE #3**

SCALE: HORIZ: 1"=50'  
VERT: 1"=5'

**LEGEND**

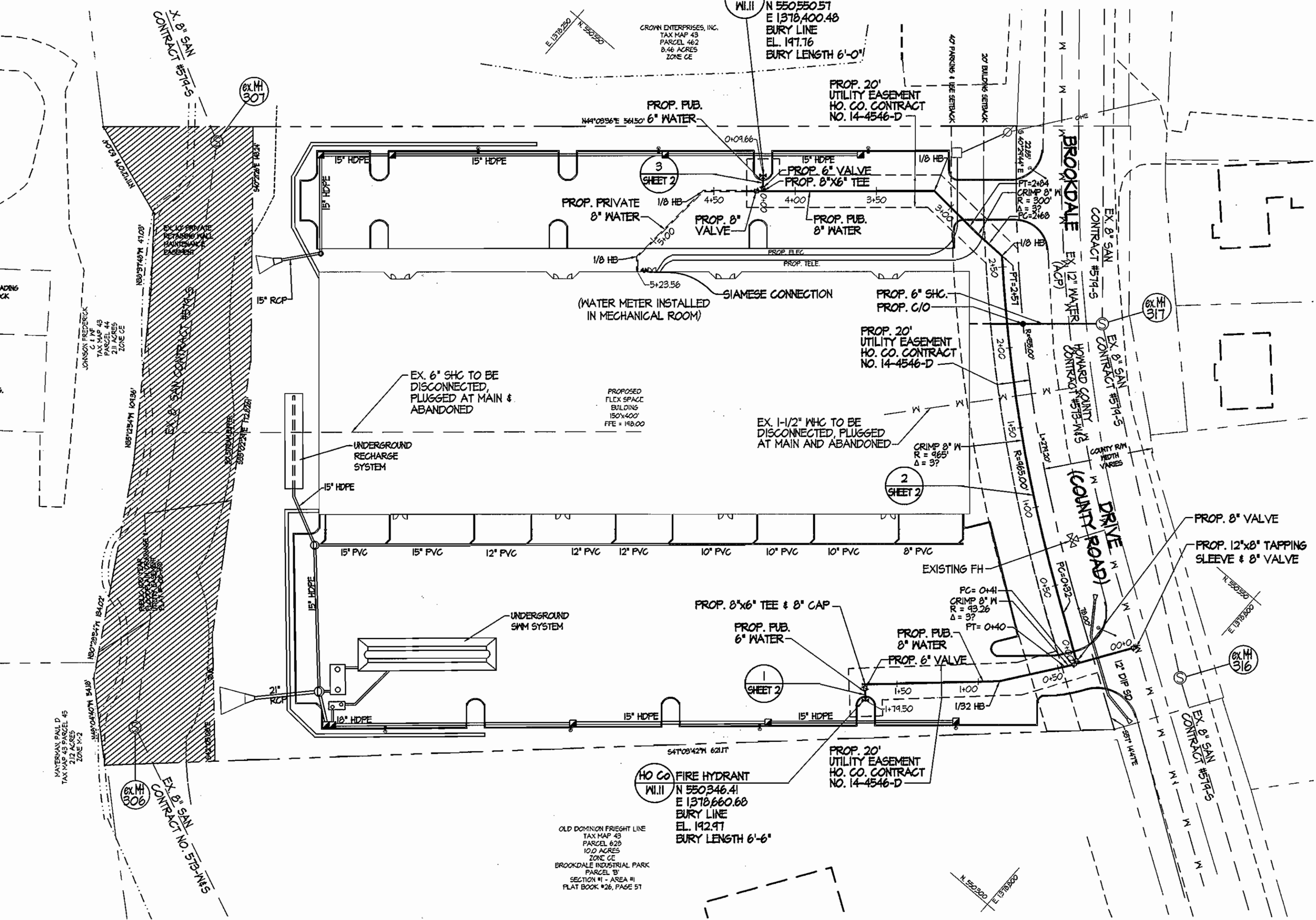
- PROPERTY LINE
- EXISTING PAVING
- PROPOSED CURB
- EX. 15" SD
- PROPOSED 30" RCCP
- EXISTING STORM DRAIN
- PROPOSED STORM DRAIN
- EX. 8" SAN
- PROPOSED 8" SAN
- EXISTING SANITARY SEWER
- PROPOSED SANITARY SEWER
- EX. 8" WATER
- PROPOSED WATER
- EXISTING FIRE HYDRANT
- PROPOSED PUBLIC FIRE HYDRANT
- PROPOSED BUILDINGS
- PROPOSED UTILITY EASEMENT
- EXISTING STREAM
- EXISTING STREAM BUFFER
- 100 YR. FLOODPLAIN EASEMENT
- 100 YR. FLOODPLAIN EASEMENT

NOTE:  
1. CONTRACTOR TO TEST PIT AND VERIFY HORIZONTAL AND VERTICAL LOCATION OF EX. 12" WATER PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE ENGINEER IF SIGNIFICANT DIFFERENCES BETWEEN PLAN AND FIELD LOCATIONS ARE FOUND.  
2. UTILITY TRENCH ROADWAY REPAVING SHALL BE IN ACCORDANCE WITH STANDARD DETAIL 9-4.01.



**4 SEWER PROFILE**

SCALE: HORIZ: 1"=50'  
VERT: 1"=5'



**PLAN**  
SCALE: 1"=50'

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 214 OF THE SPECIFICATIONS AND AS SHOWN ON SDP-08-081

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. FILE # F-08-163, SDP # SDP-08-081

APPROVED

HOWARD SOIL CONSERVATION DISTRICT \_\_\_\_\_ DATE \_\_\_\_\_

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

*Steve C. ...* *Slack*  
CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING & ZONING  
HOWARD COUNTY, MARYLAND

*...* *9/23/08*  
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

**SITE RESOURCES**  
incorporated  
Comprehensive Land Planning & Site Design Services

14907 Jarrettsville Pike, Phoenix, Maryland 21131  
(410) 683-3388 • fax (410) 683-3389

DES: KPR	BY NO.	REVISION	DATE
DRN: AM			
CAK: KRK			
DATE: 08/21/08			

**WATER AND SEWER PLAN**

600' SCALE MAP NO. 43 BLOCK NO. 4/5

**BROOKDALE INDUSTRIAL PARK**  
PARCEL A  
7010 BROOKDALE DRIVE  
1st ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND  
CONTRACT NO. 14-4546-D

SCALE: AS SHOWN  
SHEET 2 OF 2