

3394 WS/1 Clarks Glen, 1/2 lots 1-64

WATER AND SEWER EXTENSION  
CLARKS GLEN  
SECTION 1 AREA 1  
CONTRACT NO. 34-3394-D  
5th ELECTION DISTRICT

QUANTITIES

Table with columns: ITEMS, QUANTITIES ESTIMATED, QUANTITIES, AS-BUILT TYPE, MANUFACTURER / SUPPLIER. Lists items like 8" SEWER, 8" D.I.P. SEWER, 12" SEWER, MANHOLE, 6" WATER, 8" WATER, 6" CAP & BUTTRESS, etc.

NAME OF UTILITY CONTRACTOR: GRAY & SON INC. CHECK BOX AS-BUILT DATE SURVEY AND DRAFTING DIVISION

GENERAL NOTES

- 1. Approximate location of existing mains are shown. The contractor shall take all necessary precautions to protect existing mains and services and maintain uninterrupted supply. Any damage incurred shall be repaired immediately to the satisfaction of the Engineer at the Contractor's expense.
- 2. All horizontal controls are based on Maryland State Coordinates.
- 3. All vertical controls are based on U.S.G.S. data.
- 4. All pipe elevations shown are invert elevations.
- 5. Clear all utilities by a minimum of 6". Clear all poles by 2'-0" minimum or tunnel as required. 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 money owed the contractor. The contractor shall coordinate with the utility companies to schedule the bracing of the poles.
- 6. 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.
- 7. 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.
- 8. Contractor shall notify the following utility companies or agencies at least five working days before starting work shown on these plans:

State Highway Administration 531-5533  
Baltimore Gas & Electric Co. Contractor Services 850-4620  
Baltimore Gas & Electric Co. Underground Damage Control 787-9068  
Miss Utility 1-800-257-7777  
Colonial Pipeline Co. 795-1390  
Bureau of Utilities, Howard County Department of Public Works 313-4900

MANHOLE SCHEDULE table with columns: MH NO., LOCATION. Lists manhole numbers and their locations.

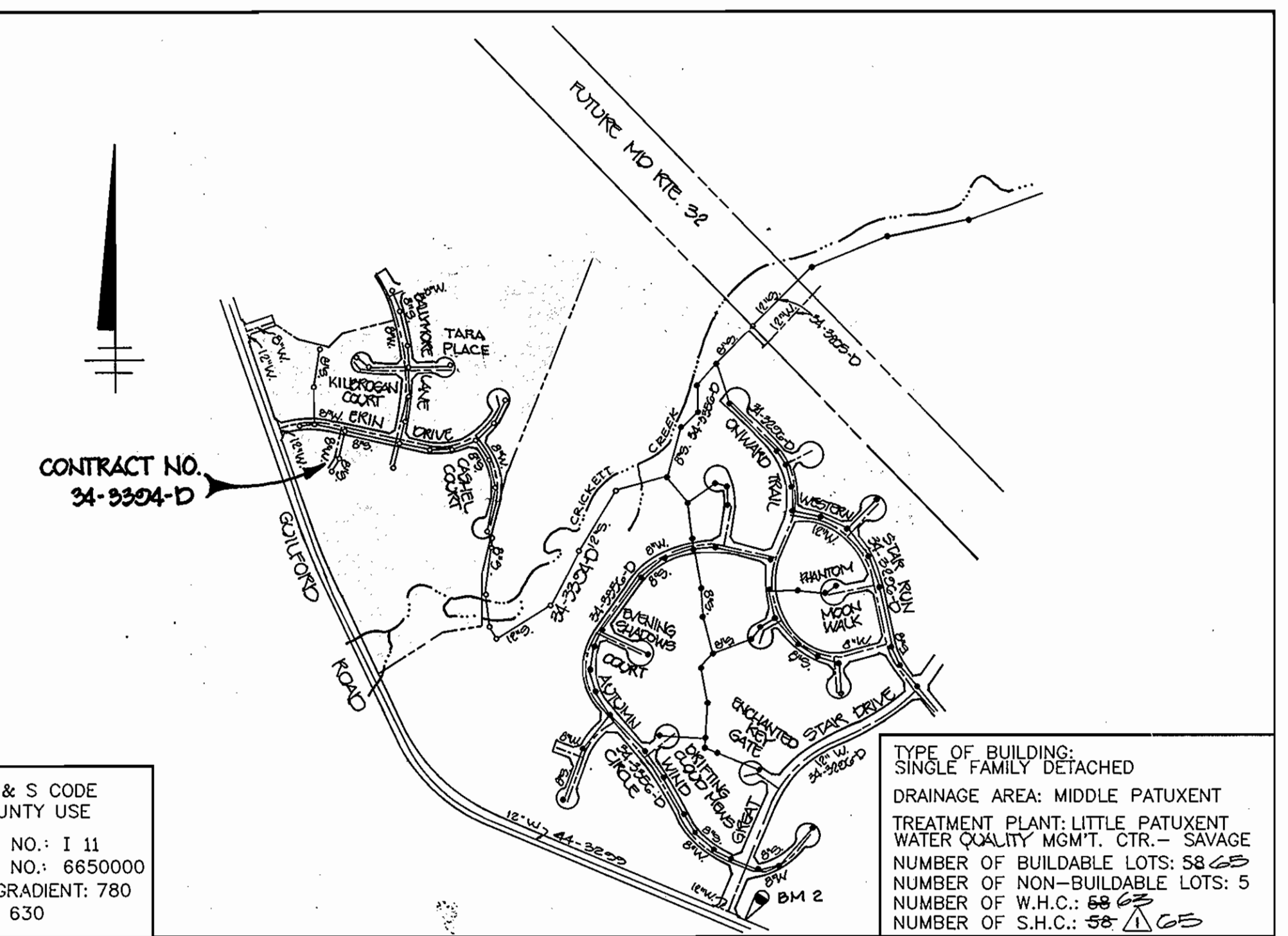
MANHOLE SCHEDULE table with columns: MH NO., LOCATION. Lists manhole numbers and their locations.

BENCHMARKS

BM1 HOWARD COUNTY MONUMENT NO. 2637003 ELEV. 481.25 CONCRETE MONUMENT  
BM2 HOWARD COUNTY MONUMENT NO. 2437003 ELEV. 472.12 CONCRETE MONUMENT

CONDITIONS AND MANAGEMENT PRACTICES FOR WORKING IN NONTIDAL WETLANDS

- 1. FOR UTILITY LINE INSTALLATION, STRIP, STOCKPILE AND MAINTAIN SEPARATELY THE TOP 6"-12" OF SOIL MATERIAL FROM THE NONTIDAL WETLANDS AND BUFFER TO BE REPLACED AS THE TOP LAYER OF THE BACKFILL MATERIAL.
- 2. REMOVE EXCESS FILL OR CONSTRUCTION MATERIAL OR DEBRIS TO AN UPLAND DISPOSAL AREA, OUTSIDE ANY FLOODPLAIN, WATERWAY, WETLAND OR BUFFER.
- 3. PLACE MATERIAL IN A LOCATION AND MANNER WHICH DOES NOT ADVERSELY IMPACT SURFACE OF SUBSURFACE WATER FLOW INTO OR OUT OF THE NONTIDAL WETLAND.
- 4. USE PREVIOUSLY EXCAVATED MATERIAL AS UTILITY LINE BACKFILL, UNLESS IT CONTAINS WASTE METAL PRODUCTS, UNSIGHTLY DEBRIS, TOXIC MATERIAL OR ANY OTHER DELETERIOUS SUBSTANCE. USE CLEAN BORROW MATERIAL, WHEN EXCAVATED MATERIAL IS NOT SUITABLE FOR USE AS BACKFILL.
- 5. STABILIZATION IN THE WETLAND AND BUFFER SHALL BE OF THE FOLLOWING SPECIES: ANNUAL HYDRASSOLOM MULTIFLORUM, MALE (SETARIA ITALICA), BARLEY (HORDEUM SP.), OATS (AVENA SP.) AND OR PERENNIAL CERBERUS. THESE SPECIES ALLOW FOR THE STABILIZATION OF THE SITE WHILE ALSO ALLOWING FOR THE VOLUNTARY REVEGETATION OF NATURAL WETLAND SPECIES. OTHER NON-PERENNIAL VEGETATION MAY BE ACCEPTABLE, BUT MUST BE APPROVED BY THE NONTIDAL WETLAND DIVISION. KENTUCKY 31 FESCUE SHALL NOT BE UTILIZED IN THE WETLAND OR BUFFER AREAS. THE AREA SHOULD BE SEEDED AND MULCHED TO REDUCE EROSION AFTER CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED.
- 6. AFTER INSTALLATION HAS BEEN COMPLETED, MAKE POST CONSTRUCTION GRADES AND ELEVATIONS OF NONTIDAL WETLANDS THE SAME AS THE ORIGINAL GRADES AND ELEVATIONS.
- 7. TO PROTECT IMPORTANT AQUATIC SPECIES, IN-STREAM WORK IS PROHIBITED AS DETERMINED BY THE CLASSIFICATION OF THE STREAM AS FOLLOWS:
  - A. CLASS I WATERS: IN-STREAM WORK MAY NOT BE CONDUCTED DURING THE PERIOD MARCH 1 THROUGH JUNE 15, INCLUSIVE, DURING ANY YEAR.
- 8. MAINTAIN THE HYDROLOGIC REGIME OF THE NONTIDAL WETLANDS UPSTREAM, DOWNSTREAM, OR ADJACENT TO THE SEWERLINE.
- 9. PLACE ANY HEAVY EQUIPMENT ON MATS OR SUITABLY DESIGN THE EQUIPMENT TO PREVENT DAMAGE TO THE NONTIDAL WETLANDS.
- 10. UPON COMPLETION OF THE PROJECT, NONTIDAL WETLANDS AND THE 25-FOOT NONTIDAL WETLAND BUFFER WILL NOT BE MOVED OR OTHERWISE MANAGED TO PREVENT THE REESTABLISHMENT OF FORESTED COVER.



VICINITY MAP SCALE: 1"=600'

Sediment control measures for this contract will be implemented in accordance with Section 219 of the Specifications and as shown on F-95-09

HOWARD SOIL CONSERVATION DISTRICT

Review for Howard Soil Conservation District and meets technical requirements.

Patricia Exler 7/24/95 U.S. NATURAL RESOURCES CONSERVATION DISTRICT DATE

This plan is approved for soil erosion and sediment control by the Howard Soil Conservation District.

John R. Roberts 7/24/95 HOWARD SOIL CONSERVATION DISTRICT DATE

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND

RIEMER MUEGGE & ASSOCIATES, INC. 7142167011 8818 Centre Park Drive Suite 200 Columbia, MD 21046 410-997-8900 FAX: 410-997-8282

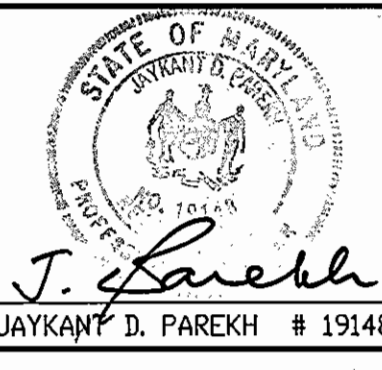


Table for project metadata including DES: A.A.P., DRN: J.C.D., CHK: DRF, DATE: 6/21/95, REV. QUANTITIES, MANHOLE SCHEDULE, VICINITY MAP & NO. OF SHEETS: 4-24-96.

Table with columns: BY, NO., REVISION, DATE. Contains the text 'TITLE SHEET'.

SHEETS NUMBERED 5 & 10 OF ORIGINAL 10 SHEET SET DELETED APRIL 24, 1996. REMAINING 8 SHEETS RENUMBERED.

CLARKS GLEN, SECTION 1 AREA 1 LOTS 1 - 64

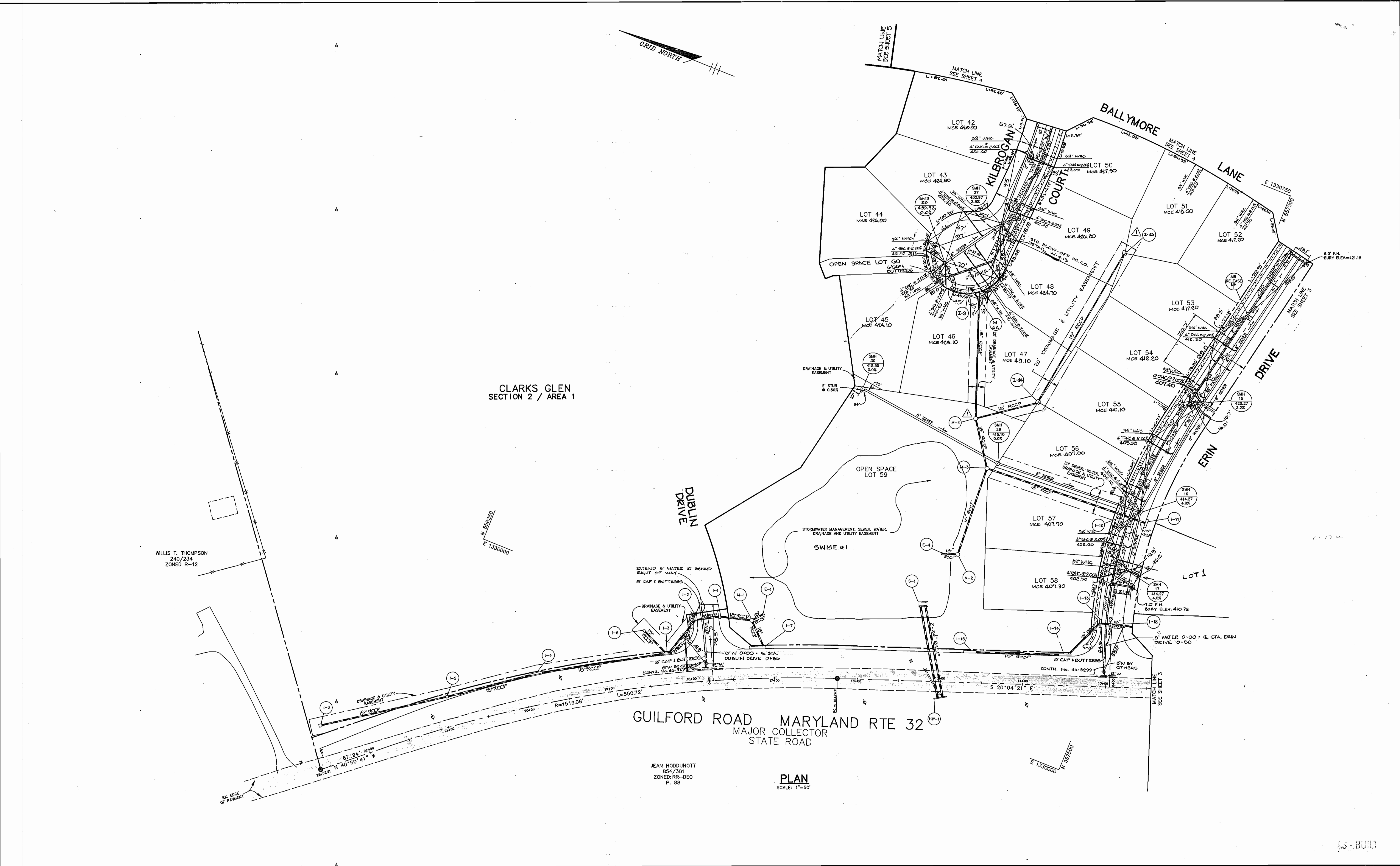
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5th ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND  
CONTRACT NO. 34-3394-D

SCALE AS SHOWN

SHEET 1 OF 8

AS-BUILT

3394 ws/2 Clarks Glen, 1/1



CLARKS GLEN SECTION 2 / AREA 1

GUILFORD ROAD MARYLAND RTE 32 MAJOR COLLECTOR STATE ROAD

JEAN HODDUNOTT 854/301 ZONED: RR-DEO P. 88

PLAN SCALE: 1"=50'

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

*Nicholas A. Suranville*  
CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING & ZONING  
HOWARD COUNTY, MARYLAND

*John J. Damm* 7/25/95  
CHIEF, DEVELOPMENT ENGINEERING DIVISION

**RIEMER MUEGGE & ASSOCIATES, INC.**  
Planners • Engineers • Surveyors  
8818 Centre Park Drive • Suite 200 • Columbia, MD 21045  
410-997-8900 FAX: 410-997-9282

STATE OF MARYLAND  
J. Savelle  
JAYKANT D. PAREKH # 19148

DES: A.A.P.			
DRN: J.C.D.			
CHK: D.R.F.			
RJC	△	ADDED 15" & 18" RCCP - 2 STORM INLETS I-44 & I-45, 20" DRAIN & UTILITY ESM'T., CHANGED TOT. NO. OF SHEETS.	4-24-94
BY	NO.	J REVISION	DATE
DATE: 6/21/95			

**WATER AND SEWER PLAN**

600' SCALE MAP NO. 35 BLOCK NO. 13

**CLARKS GLEN, SECTION 1 AREA 1**  
LOTS 1 - 64

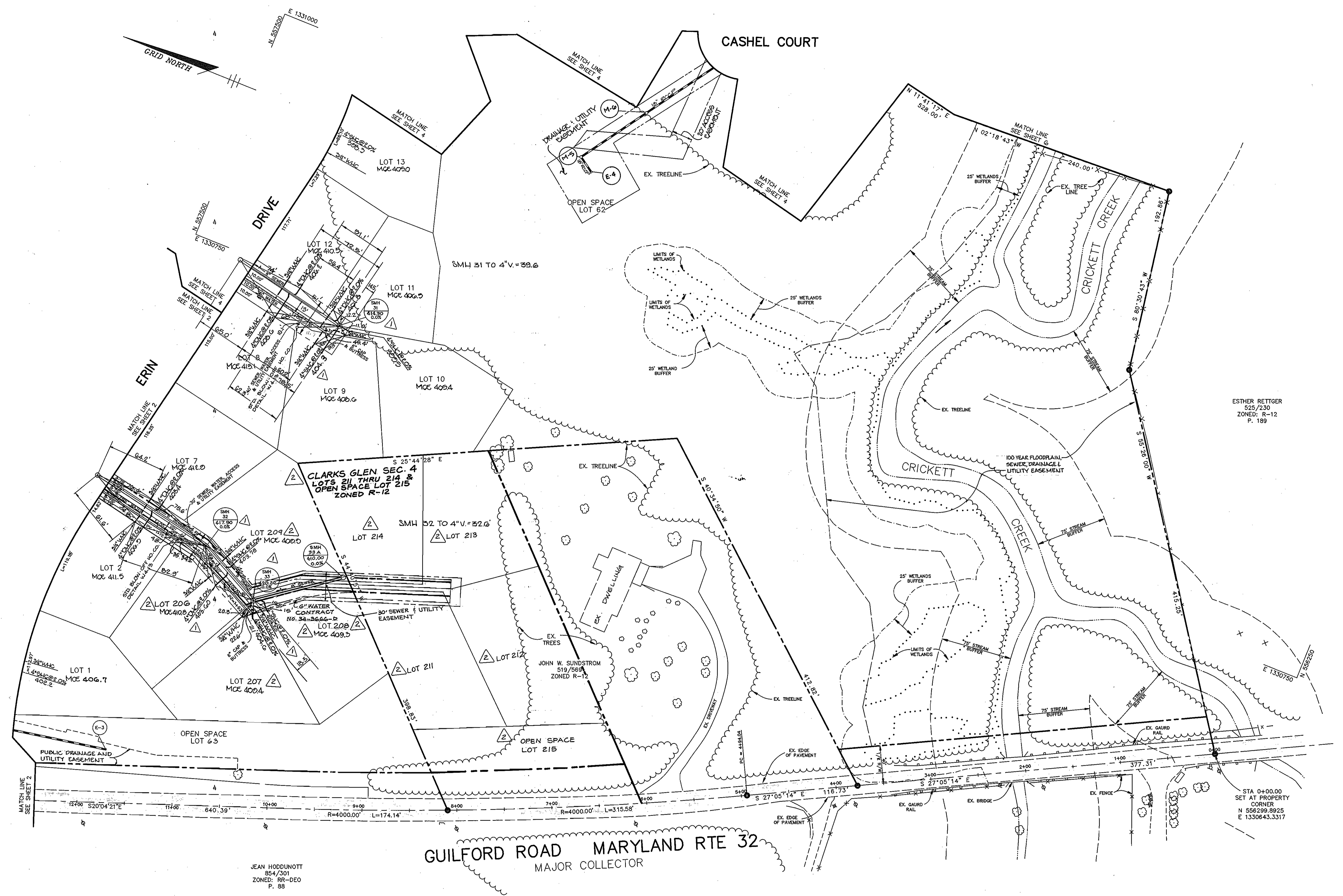
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5th ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND  
CONTRACT NO. 34-3394-D

SCALE: AS SHOWN

SHEET 2 OF 8

AS - BUILT

3394 WS/3 Clarks Glen, 1/1



GUILFORD ROAD MARYLAND RTE 32  
MAJOR COLLECTOR

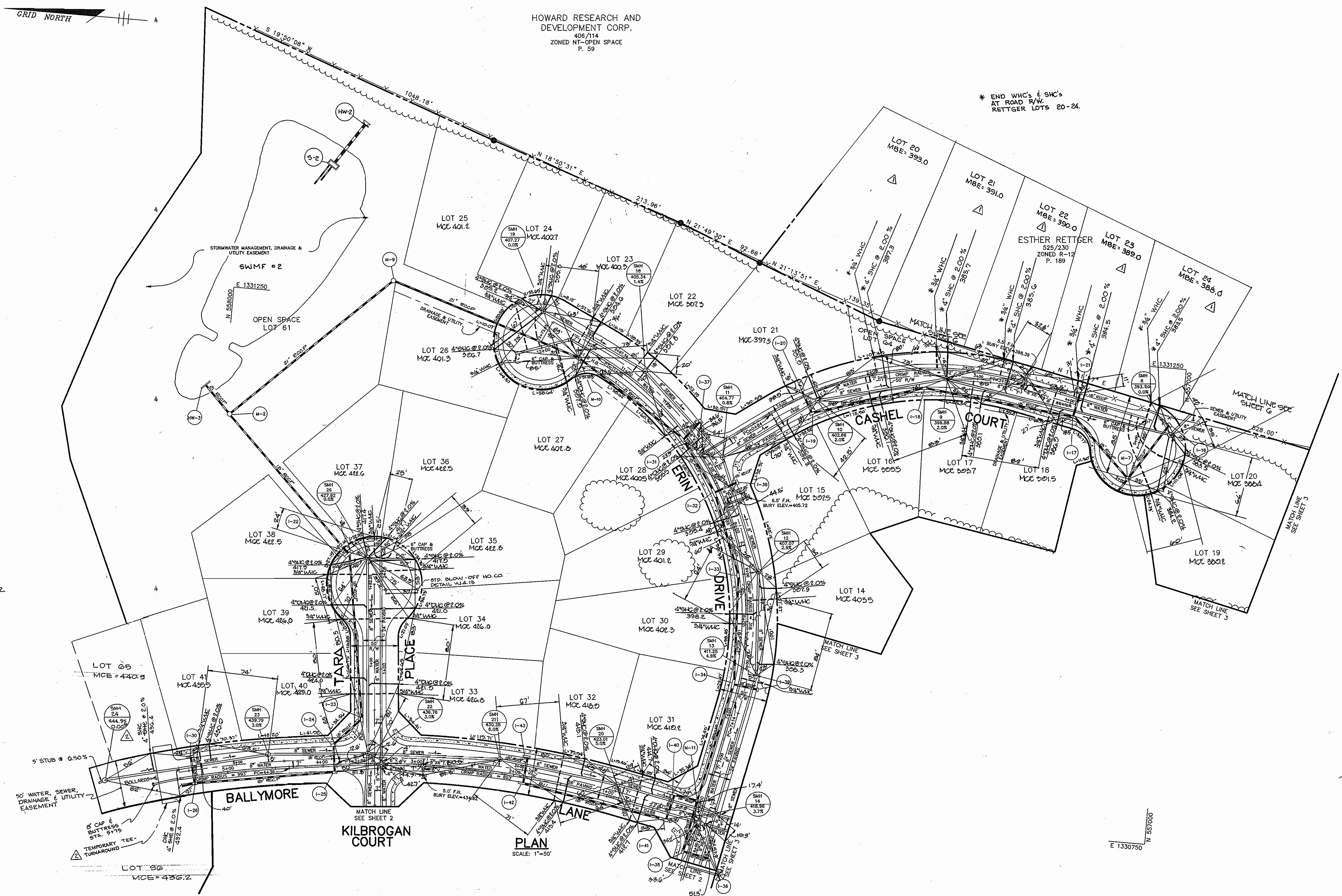
PLAN  
SCALE: 1"=50'

AS - BUILT

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND  Nicholas A. ... CHIEF, BUREAU OF UTILITIES DATE: 7/19/95	DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND  ... CHIEF, DEVELOPMENT ENGINEERING DIVISION, DATE: 7/25/95	RIEMER MUEGGE & ASSOCIATES, INC. Planners • Engineers • Surveyors 8818 Centre Park Drive • Suite 200 • Columbia, MD 21045 410-987-8800 FAX: 410-997-8282	JAYKANT D. PAREKH # 19148	DES: A.A.P. DRN: J.C.D. CHK: D.R.F. DATE: 6/21/95 BY: ND. REVISION: ... DATE: 10/27/00	WATER AND SEWER PLAN  600' SCALE MAP NO. 35 BLOCK NO. 13	CLARKS GLEN, SECTION 1 AREA 1 LOTS 1 - 64 TAX MAP: 35 PARCEL: 205 5th ELECTION DISTRICT HOWARD COUNTY, MARYLAND CONTRACT NO. 34-3394-D  ESTHER RETTGER 525/230 ZONED: R-12 P. 189  STA 0+00.00 SET AT PROPERTY CORNER N 556299.8925 E 1330643.3317
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AS - BUILT

33094 WS/4 Clarks Glen, 1/1



DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

Michael A. ... 7-17-95  
CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING & ZONING  
HOWARD COUNTY, MARYLAND

... 7/25/95  
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

RIEMER MUEGGE & ASSOCIATES, INC.  
Planners • Engineers • Surveyors  
8818 Centre Park Drive • Suite 200 • Columbia, MD 21045  
410-997-8900 FAX: 410-997-9282

J. ...  
JAYKANT D. PAREKH # 19148

DES. A.A.P.					
DRN. J.C.D.					
CHK. D.R.F.	RJC	ADDED TEMP TEE-TURNAROUND, SMH 24 & RELATED SEWER/WATER LINES TO NORTH END BALLYMORE LANE	4-24-96		
DATE: 6/21/95	RJC	ADDED 5 LOTS (20-24) TO RETTGER PROP. ALSO ADDED WHC & SHC FOR EACH LOT FROM CASHEL CT. MAINS	11/14/95		
BY	NO.	REVISION	DATE		

**WATER AND SEWER PLAN**

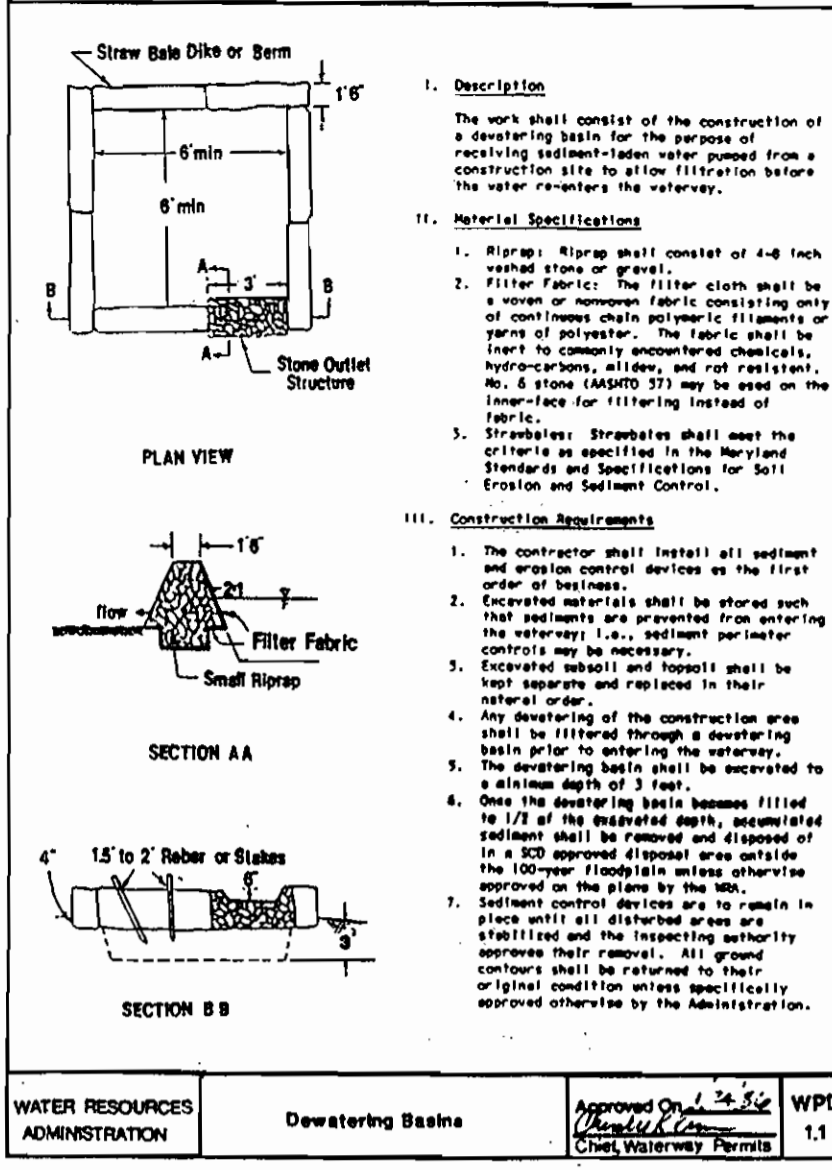
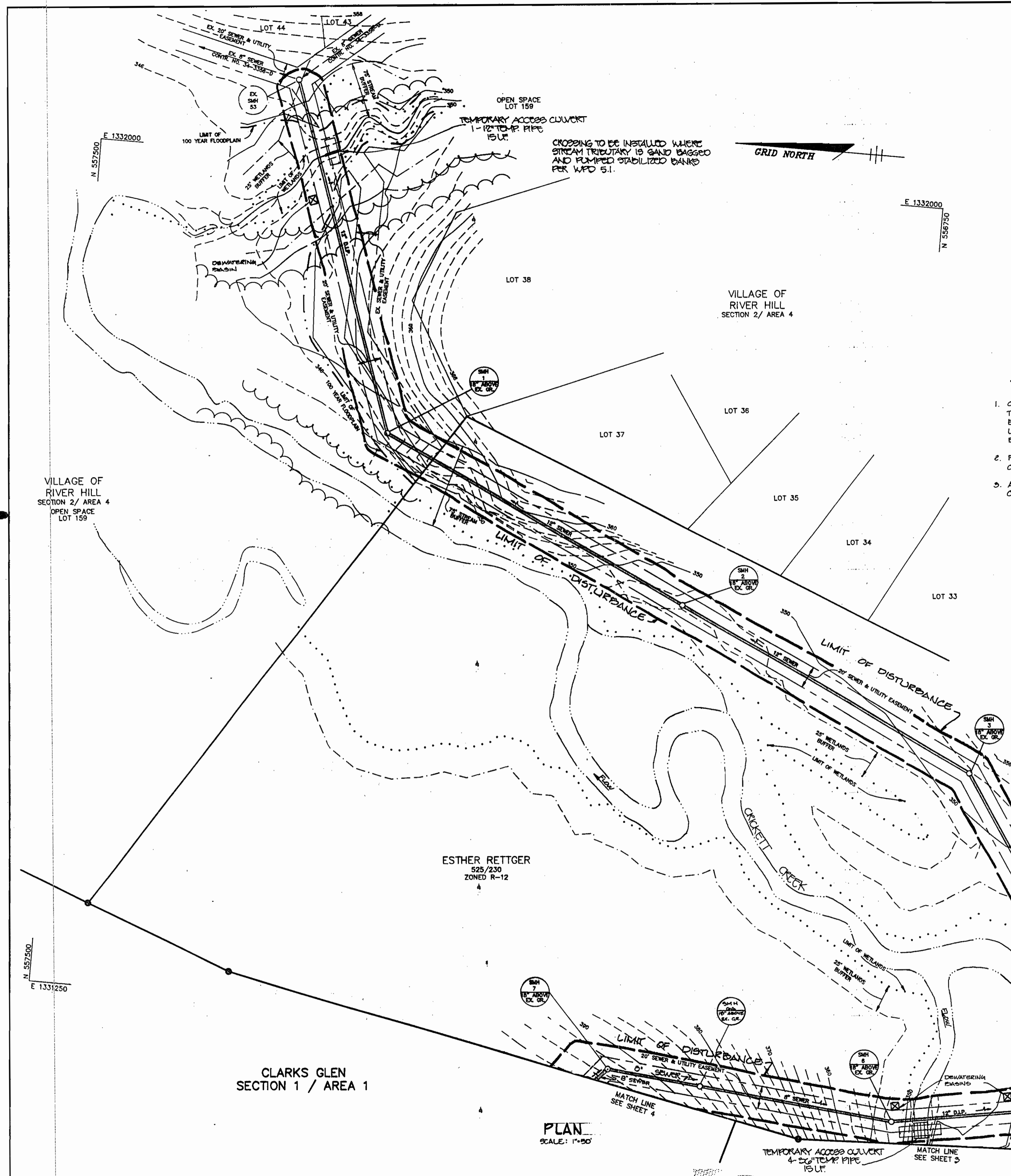
600' SCALE MAP NO. 35 BLOCK NO. 13

**CLARKS GLEN, SECTION 1 AREA 1**  
LOTS 1 - 64  
TAX MAP: 35 PARCEL: 205  
5th ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND  
CONTRACT NO. 34-3394-D

AS - BUILT  
SCALE AS SHOWN  
SHEET 4 OF 8  
AS - BUILT

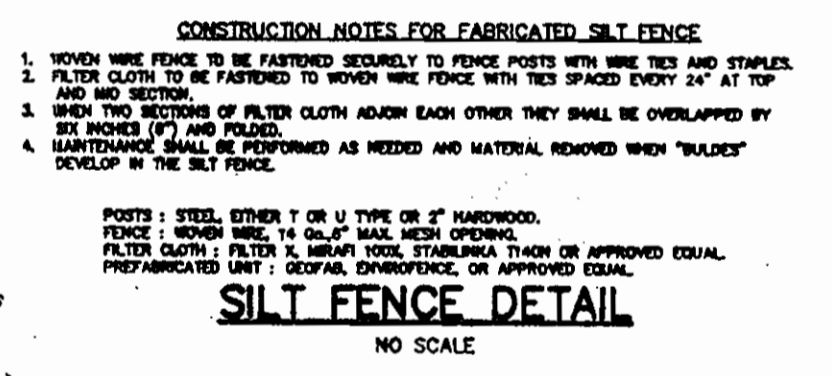
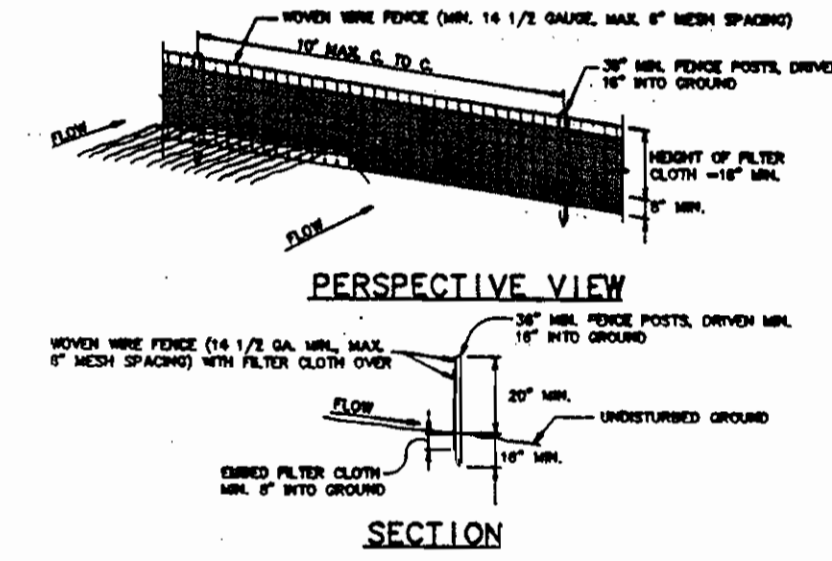
AS - BUILT

3394 ws/s Clarks Glen, N



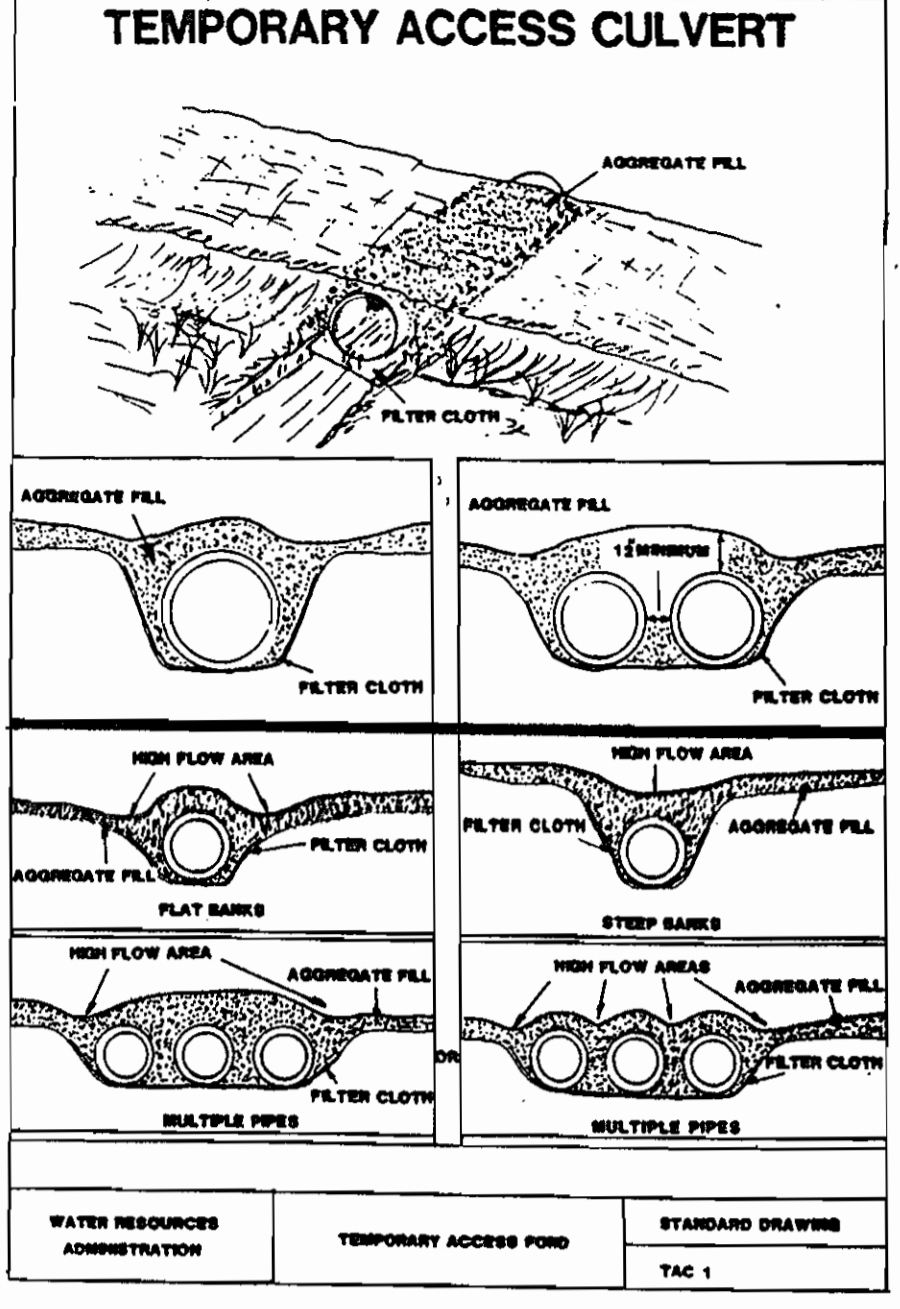
**SEDIMENT AND EROSION CONTROL NOTES FOR UTILITY CONSTRUCTION**

- CONTRACTOR WILL OPEN ONLY THAT LENGTH OF TRENCH THAT CAN BE BACKFILLED AND STABILIZED EACH DAY. IF TRENCH MUST REMAIN OPEN LONGER THAN ONE (1) DAY, SILT FENCE SHALL BE PLACED DOWN SLOPE OF THE TRENCH.
- PLACE ALL EXCAVATED MATERIAL ON UPHILL SIDE OF TRENCH.
- ANY EROSION CONTROLS DISTURBED BY UTILITY CONSTRUCTION ARE TO BE REPAIRED IMMEDIATELY.



**CONSTRUCTION NOTES FOR FABRICATED SILTY FENCE**

- WOODEN WIRE FENCE TO BE INSTALLED TO FACE POSTS WITH WIRE TIE AND STAPLES.
- FILTER CLOTH TO BE ATTACHED TO WOODEN WIRE FENCE WITH TWO SPEED EXCEPT AT TOP.
- WOODEN WIRE FENCE TO BE INSTALLED TO FACE POSTS WITH WIRE TIE AND STAPLES.
- WOODEN WIRE FENCE TO BE INSTALLED TO FACE POSTS WITH WIRE TIE AND STAPLES.



**TEMPORARY ACCESS CULVERT**

Temporary Access Culvert - (STANDARD DRAWING TAC-1)

A temporary access culvert is a structure consisting of a section(s) of circular pipe, pipe arches, or oval pipes of reinforced concrete, corrugated metal, or structural steel, which is used to convey flowing water through the crossing.

**Considerations**

- Temporary culverts are used where (1) the channel is too wide for normal bridge construction, (2) anticipated loading may prove unsafe for single span bridges, or (3) access is not needed from bank to bank.
- This temporary waterway crossing method is normally preferred over a ford type crossing.
- Temporary culverts can be salvaged and reused.

**Construction Specifications**

- Restrictions** - No construction or removal of a temporary access culvert will be permitted between October 1 through April 30 for all Class III and Class IV Trout Waters or between March 15 through June 15 for non-trout waterways.
- Culvert Strength** - All culverts shall be strong enough to support their cross sectional area under maximum expected loads.
- Culvert Size** - The size of the culvert pipe shall be the largest pipe diameter that will fit into the existing channel without major excavation of the waterway channel or without major approach fills. If a channel width exceeds 3 feet, additional pipes may be used until the cross sectional area of the pipe is greater than 60 percent of the cross sectional area of the existing channel. The minimum size culvert that may be used is a 12" diameter pipe.
- Culvert Length** - The culvert(s) shall extend a minimum of one foot beyond the upstream and downstream toe of the aggregate placed around the culvert. In no case shall the culvert exceed 40 feet in length.
- Filter Cloth** - Filter cloth shall be placed on the streambed and streambanks prior to placement of the pipe culvert(s) and aggregate. The filter cloth shall cover the streambed and extend a minimum six inches and a maximum one foot beyond the end of the culvert and bedding material. Filter cloth reduces sediment and improves crossing stability.
- Culvert Placement** - The invert elevation of the culvert shall be installed on the natural streambed grade to minimize interference with fish migration (free passage of fish).
- Culvert Protection** - The culvert(s) shall be covered with a minimum of one foot of aggregate. If multiple culverts are used they shall be separated by at least 12" of compacted aggregate fill. At a minimum, the bedding and fill material used in the construction of the temporary access culvert crossings shall conform with the aggregate requirements cited in Section I.B.1. above.
- Stabilization** - All areas disturbed during culvert installation shall be stabilized within 14 calendar days of the disturbance in accordance with the Standard for "Critical Area Stabilization With Permanent Seeding."

**Culvert Maintenance Requirements**

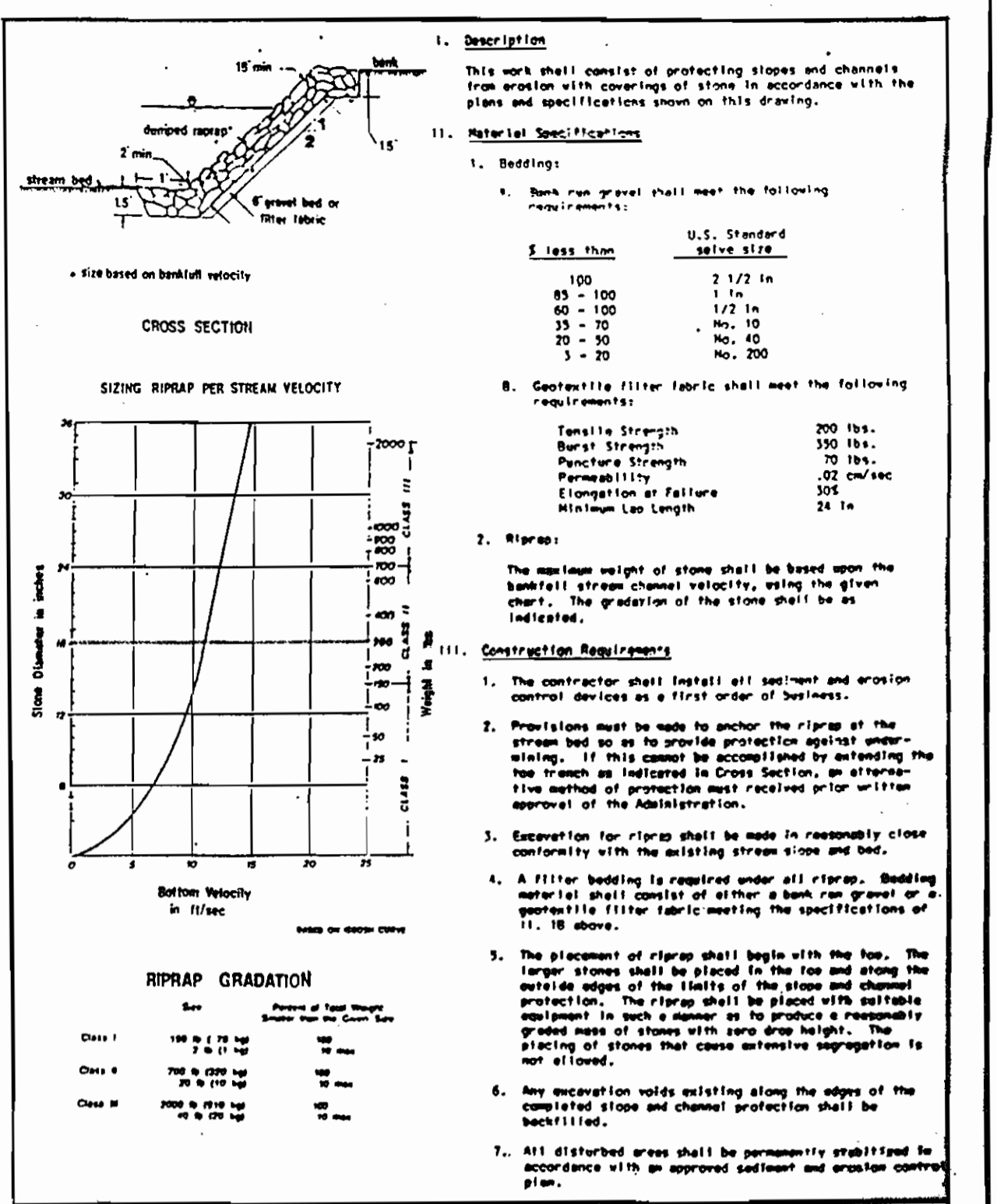
- Inspection** - Periodic inspection shall be performed to ensure that the culverts, streambed, and streambanks are not damaged, and that sediment is not blocking the stream or hindering fish passage or migration.
- Maintenance** - Maintenance shall be performed, as needed in a timely manner to ensure that structures are in compliance with this standard and specification. This shall include removal and disposal of any trapped sediment or debris. Sediment shall be disposed of and stabilized outside the waterway flood plain.

**Culvert Removal and Clean-Up Requirements**

- Removal** - When the crossing has served its purpose, all structures including culverts, bedding and filter cloth materials shall be removed within 14 calendar days. In all cases, the culvert materials shall be removed during the spawning season (March 15 through June 15).
- Final Clean-up** - Final clean-up shall consist of removal of the temporary structure from the waterway, removal of all construction materials, restoration of original stream channel cross section, and protection of the stream banks from erosion. Removed material shall be stored outside of the waterway flood plain.
- Method** - Removal of the structure and clean up of the area shall be accomplished without construction equipment working in the waterway channel.
- Final Stabilization** - All areas disturbed during culvert removal shall be stabilized within 14 calendar days of the disturbance in accordance with the Standard for "Critical Area Stabilization With Permanent Seeding."

USE STD DETAILS WPD 8.1 AND WPD 2.3 TWAIN STREAM CROSSINGS.

WATER RESOURCES ADMINISTRATION	TEMPORARY ACCESS FORD	STANDARD DRAWING	TAC 1
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**RIPRAP**

This work shall consist of protecting slopes and channels from erosion with coverings of stone in accordance with the material specifications shown on this drawing.

**Bedding**

- Bank run gravel that meet the following requirements:
- | U.S. Standard | U.S. Standard |
|---------------|---------------|
| Less than     | Gravel Size   |
| 85 - 100      | 2 1/2 in      |
| 60 - 100      | 1 1/2 in      |
| 35 - 10       | No. 10        |
| 20 - 10       | No. 20        |
| No. 40        | No. 40        |
| No. 200       | No. 200       |

**Construction Requirements**

- The contractor shall install all sediment and erosion control devices as a first order of business.
- Provisions must be made to anchor the riprap of the stream bed so as to provide protection against undermining. If this cannot be accomplished by anchoring the riprap as indicated in Cross Section, an alternative method of protection must be received prior to approval of the Administration.
- Excavation for riprap shall be made in reasonably close conformity with the existing stream slope and bed.
- A filter bedding is required under all riprap. Bedding material shall consist of either a bank run gravel or a suitable filter fabric meeting the specifications of 11.1B above.
- The placement of riprap shall begin with the toe. The larger stones shall be placed in the toe and along the entire edge of the bank of the stream and channel protection. The riprap shall be placed with sufficient overlap in such a manner as to provide a minimum of 200 lbs. of stone per square yard. The placing of stones that cause extensive segregation is not allowed.
- Any excavation voids existing along the edge of the completed slope and channel protection shall be backfilled.
- All disturbed areas shall be permanently stabilized in accordance with an approved sediment and erosion control plan.

**Utility Crossing**

This work shall consist of installing diversion structures for the purpose of erosion control when construction activities take place along the stream channel such as bank stabilization or bridge abutment construction.

**Material Specifications**

- Diversion structures shall consist of materials which are resistant to erosion and will not settle or disintegrate.
- Stones shall be washed and have a minimum diameter of 1.5 feet.
- Bedding: Bedding shall consist of polypropylene or other material which is impermeable and resistant to puncture and tearing.
- Filter fabric: Filter fabric shall be installed on the streambed and streambanks prior to placement of the diversion structure.
- Diversion structures shall be installed from upstream to downstream.
- The height of the diversion structure shall be sufficient to prevent erosion from occurring on the stream bank.
- The diversion structure shall be placed in the stream channel.
- The diversion structure shall be placed in the stream channel.
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**Construction Requirements**

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WATER RESOURCES ADMINISTRATION	Sandbag/Stone Diversion	Approved On 4/18/06	WPD 2.3
		Chief, Waterway Permits	

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING  
HOWARD COUNTY, MARYLAND

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JAYKANT D. PAREKH # 19148

DES: A.A.P.  
DRN: J.C.G.  
CHK: A.A.P.  
DATE: 6/21/05

BY: ND.  
REVISION

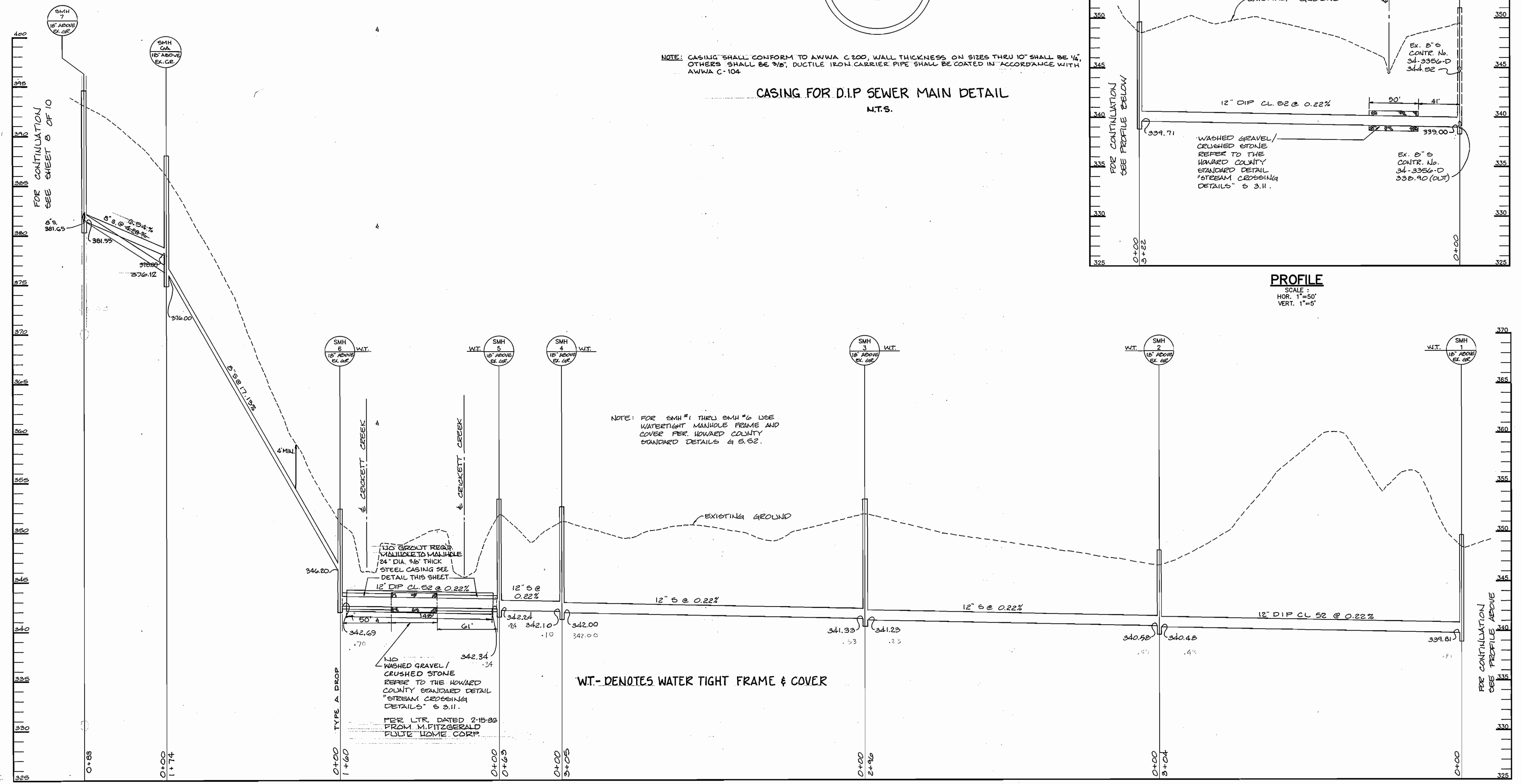
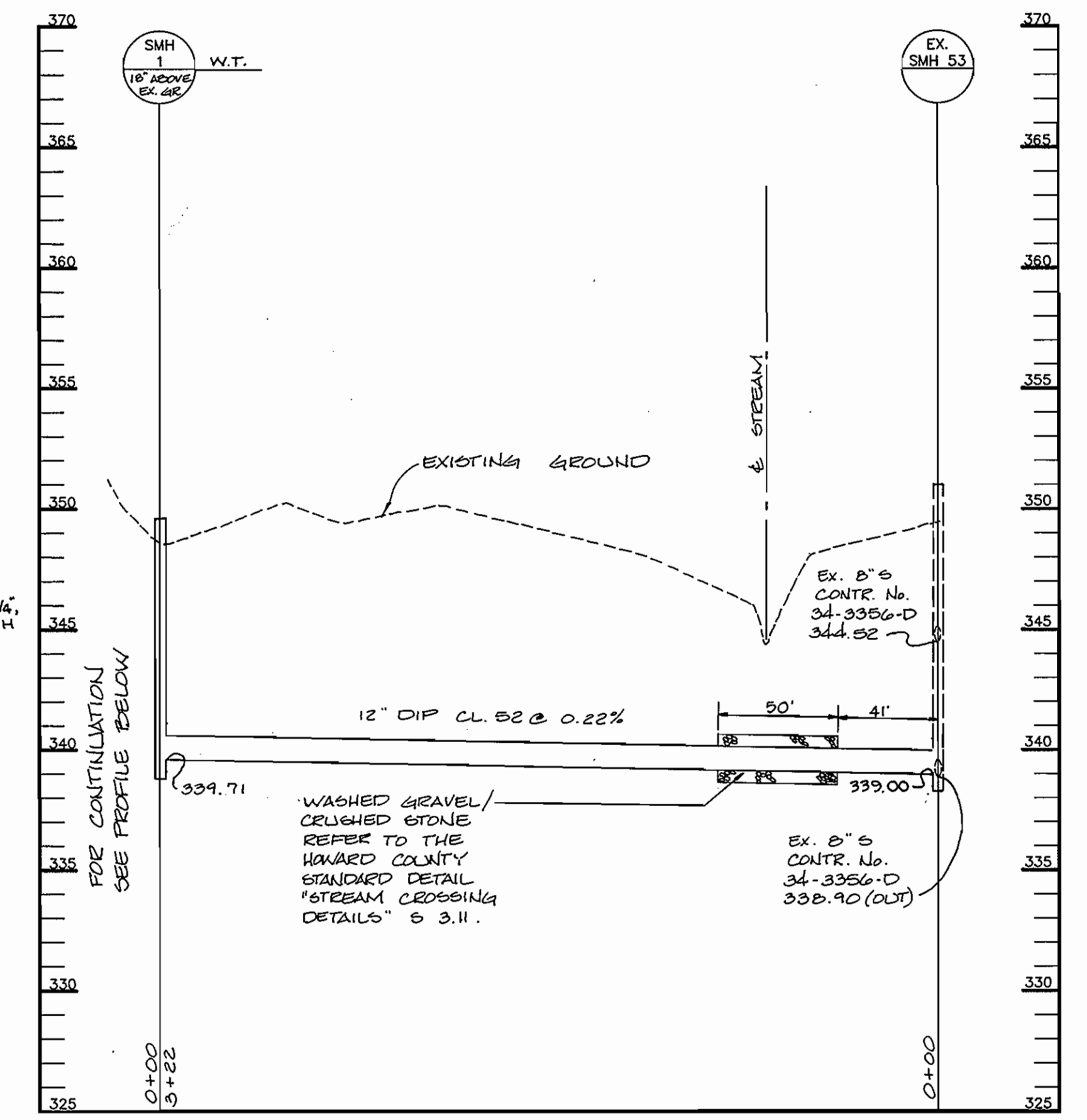
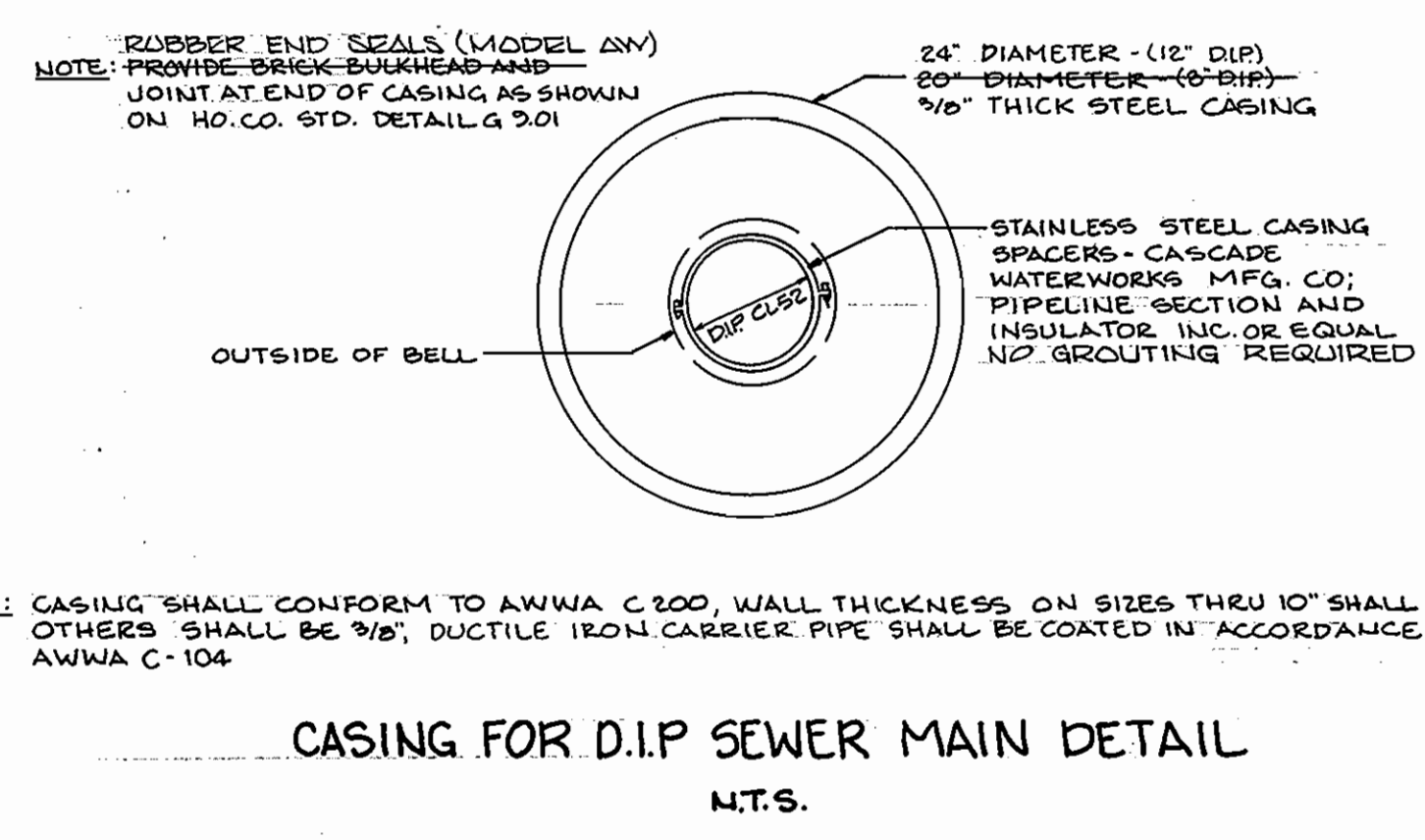
DATE: 6/21/05  
600' SCALE MAP NO. 35 BLOCK NO. 13

CLARKS GLEN, SECTION 1 AREA 1  
LOTS 1 - 64  
TAX MAP: 35 PARCEL: 205  
5th ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND  
CONTRACT NO. 34-3394-D

SCALE AS SHOWN  
SHEET 5 OF 8

AS - BUILT

3394 ws/B Clark's Glen, 1/1



DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

Michael A. Berman  
CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING & ZONING  
HOWARD COUNTY, MARYLAND

Chief, Development Engineering Division

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410-997-8900 FAX: 410-997-8282

J. Lavell  
JAYKANT D. PAREKH P.E. #19148

DES: AAP					
DRN: C.M.					
CHK: AAP					
DATE: 6/21/95	BY: NO.	REVISION	DATE	600' SCALE MAP NO. 23	BLOCK NO. 13

**WATER AND SEWER PROFILES**

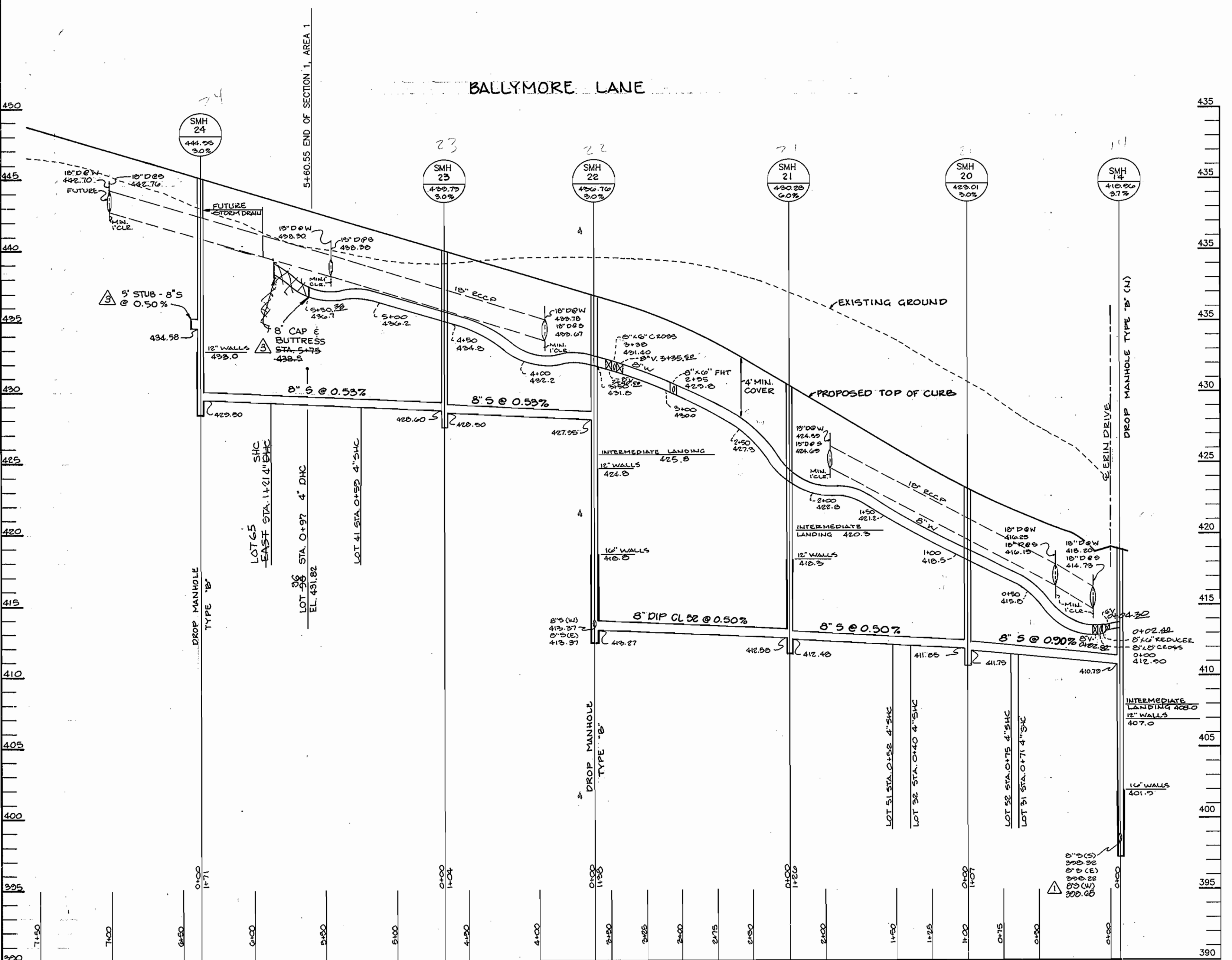
**CLARKS GLEN, SECTION 1 AREA 1**  
LOTS 1 - 64

TAX MAP: 35 PARCEL: 205  
5th ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND  
CONTRACT NO. 34-3394-D

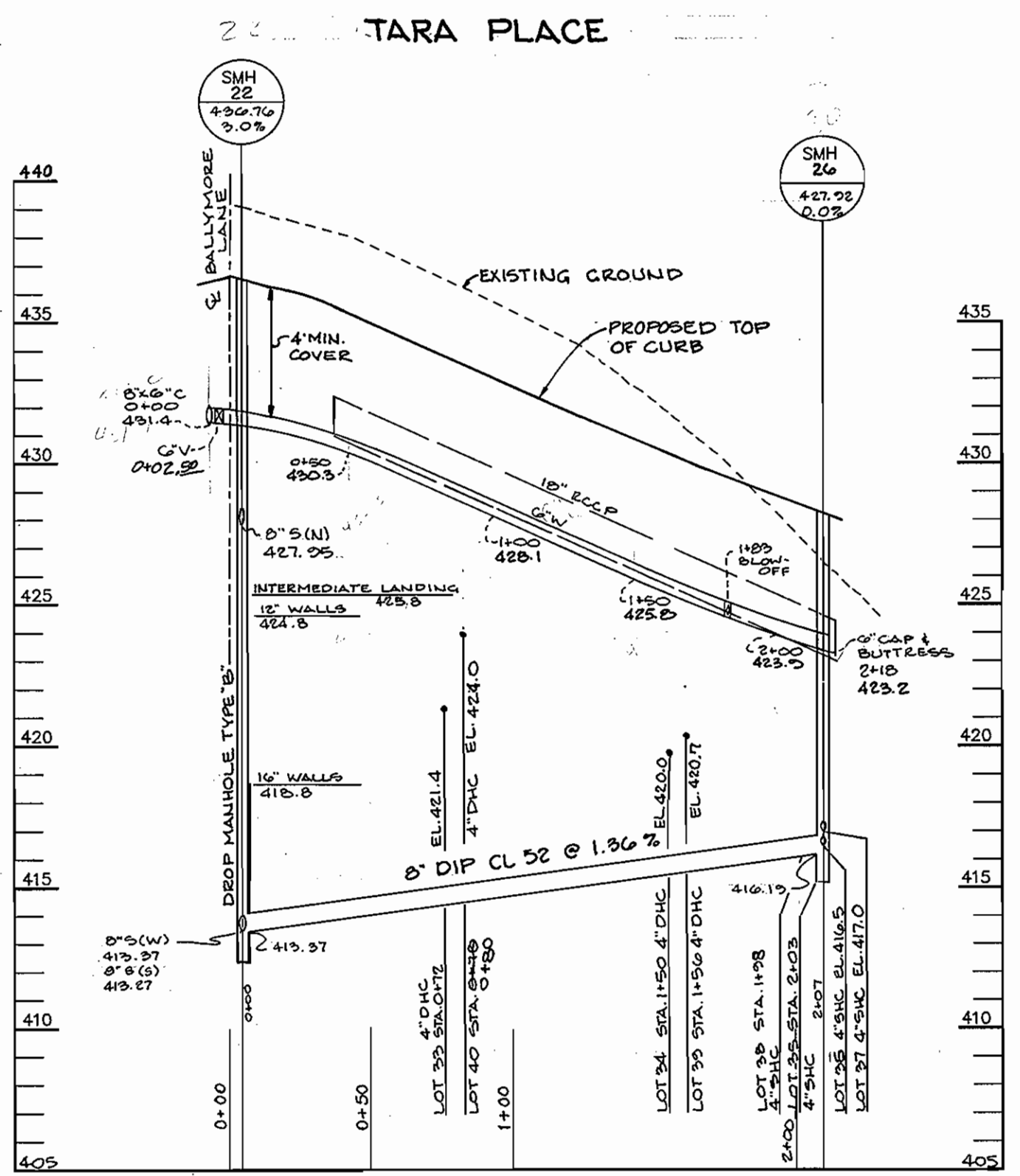
SCALE AS SHOWN

SHEET 6 OF 8

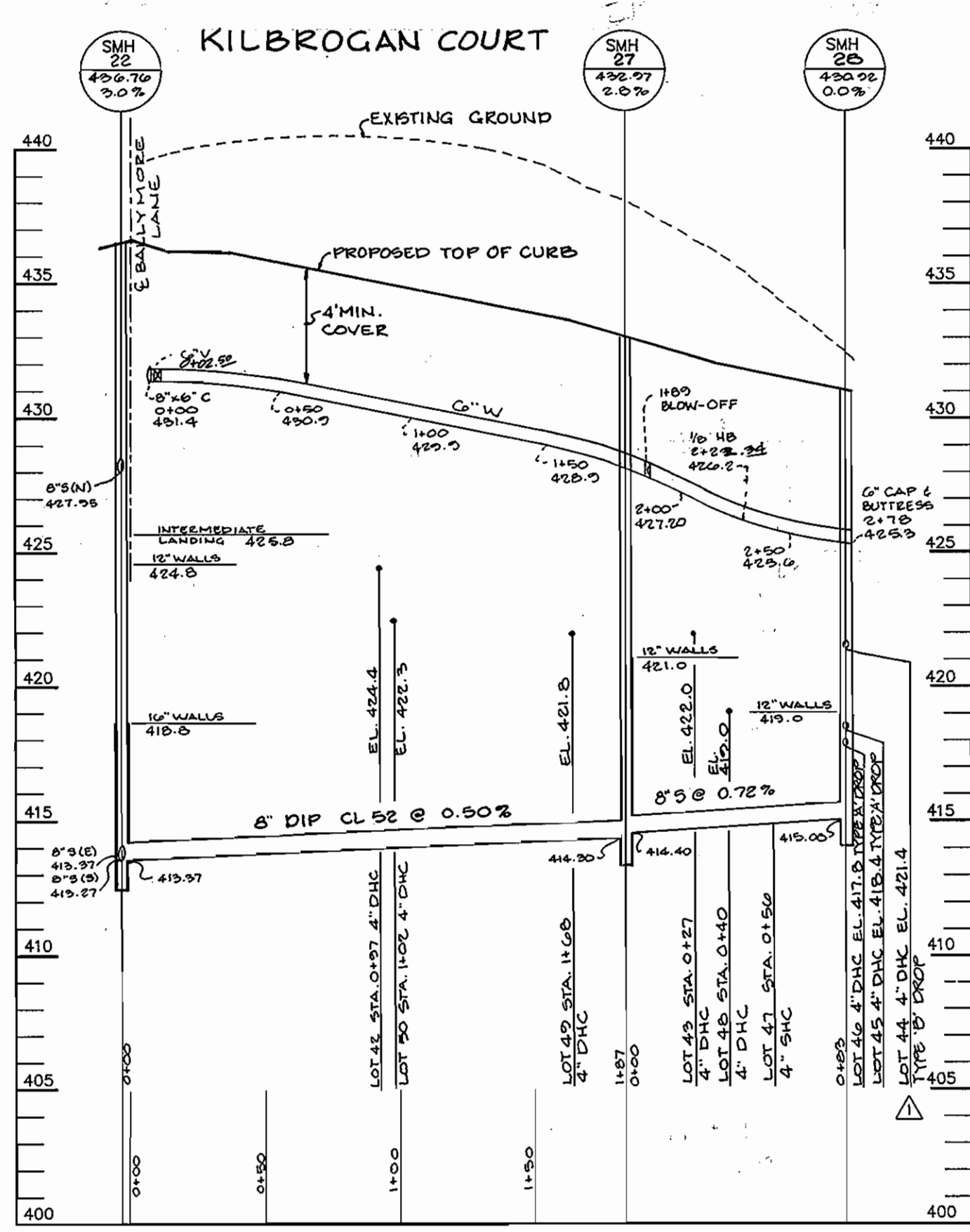
3394 ws/7 Clarks Glen, 1/1 AS - BUILT



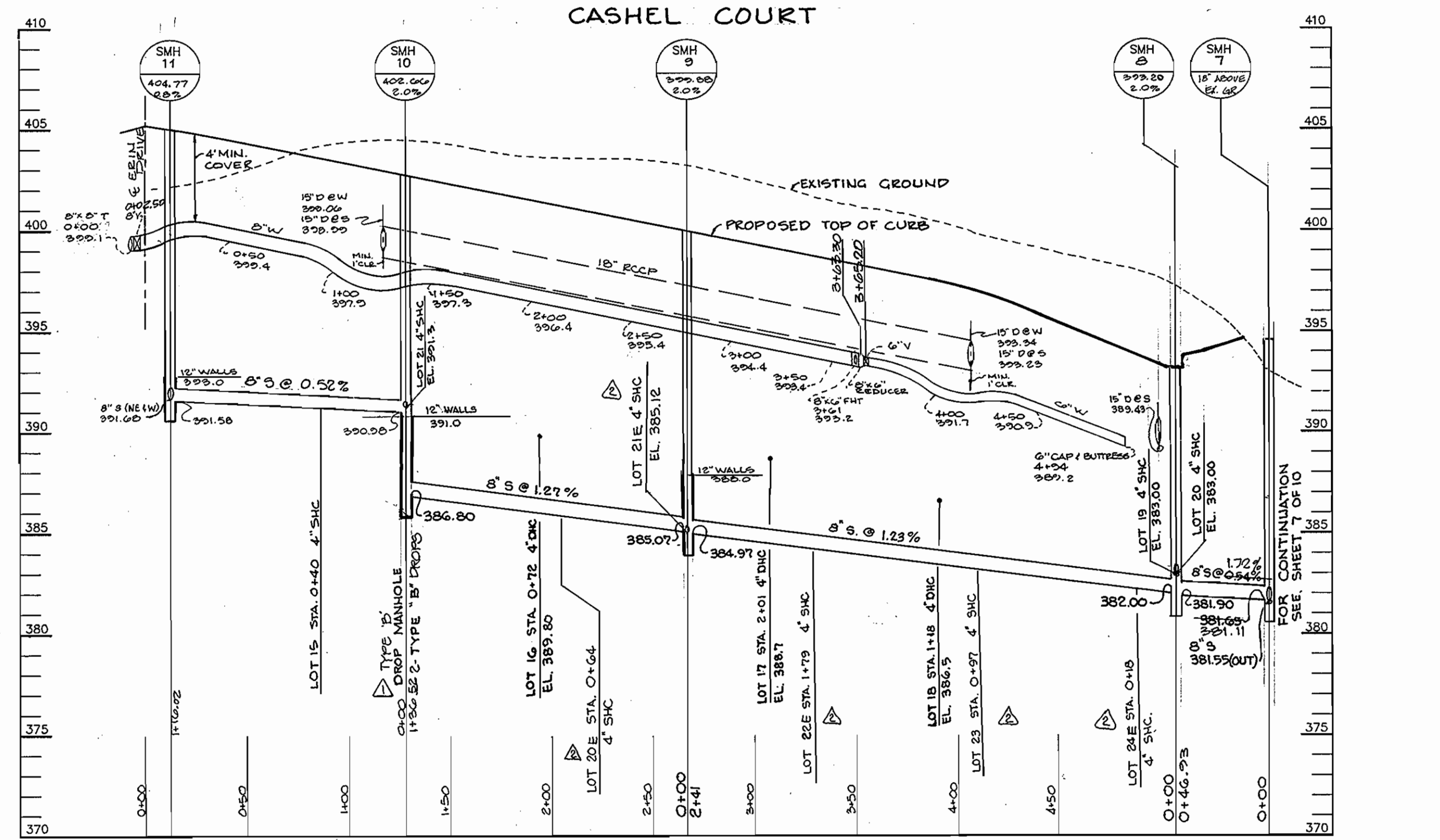
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PROFILE SCALE: HOR. 1"=50' VERT. 1"=5'



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AS - BUILT

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND  
DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND  
Richard B. Burman, Chief, Bureau of Utilities  
Chief, Development Engineering Division

RIEMER MUEGGE & ASSOCIATES, INC.  
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410-997-8800 • FAX: 410-997-8282

Seal of the State of Maryland  
J. Farrell  
JAYKAM D. PAREKH P.E. #19148

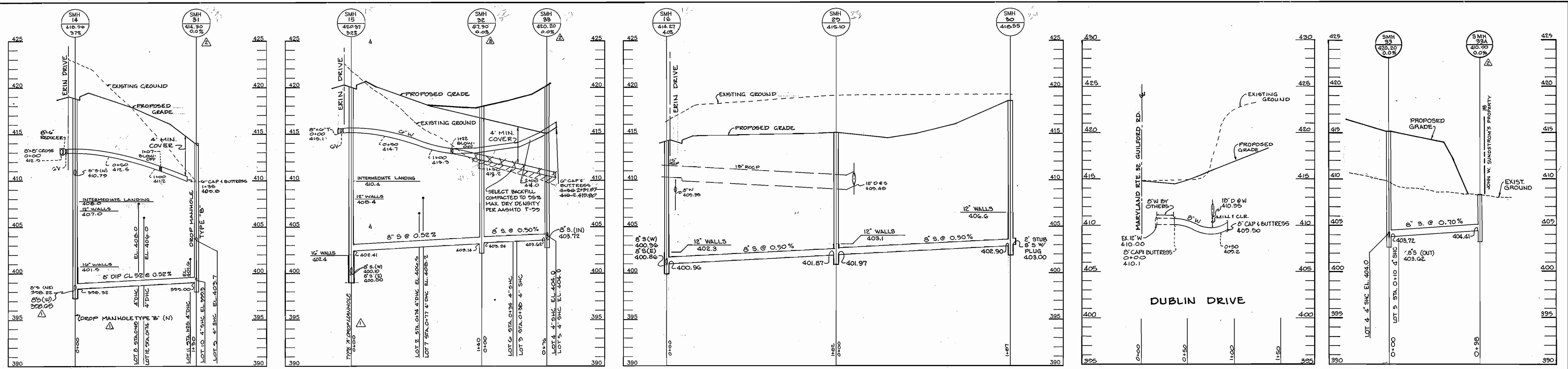
DES: BRD	
DRN: BRD	
CHK: AAP	
DATE: 6/21/95	
BY: ND	

REVISION	DATE
REMOVED SM 25 & 8" S. LINE BETWEEN SM 24 & SM 25 ABOVE 8" CAP & BUTTRESS TO VTE LINE @ STA. 5+75. ALTERED SHY. NO'S.	4-24-90
ADDED 5 SHC'S LOTS 20-24. ALTERED ELS. LOTS 17 & 18	11/14/89
RELOCATED ONE SAN. CONNECTION - ADDED CLARIFICATION OF DROP TYPES TO 2 PROFILES	10-10-89

CLARKS GLEN, SECTION 1 AREA 1  
LOTS 1 - 64  
TAX MAP: 35 PARCEL: 205  
5th ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND  
CONTRACT NO. 34-3394-D  
SCALE AS SHOWN  
SHEET 7 OF 8

AS-BUILT

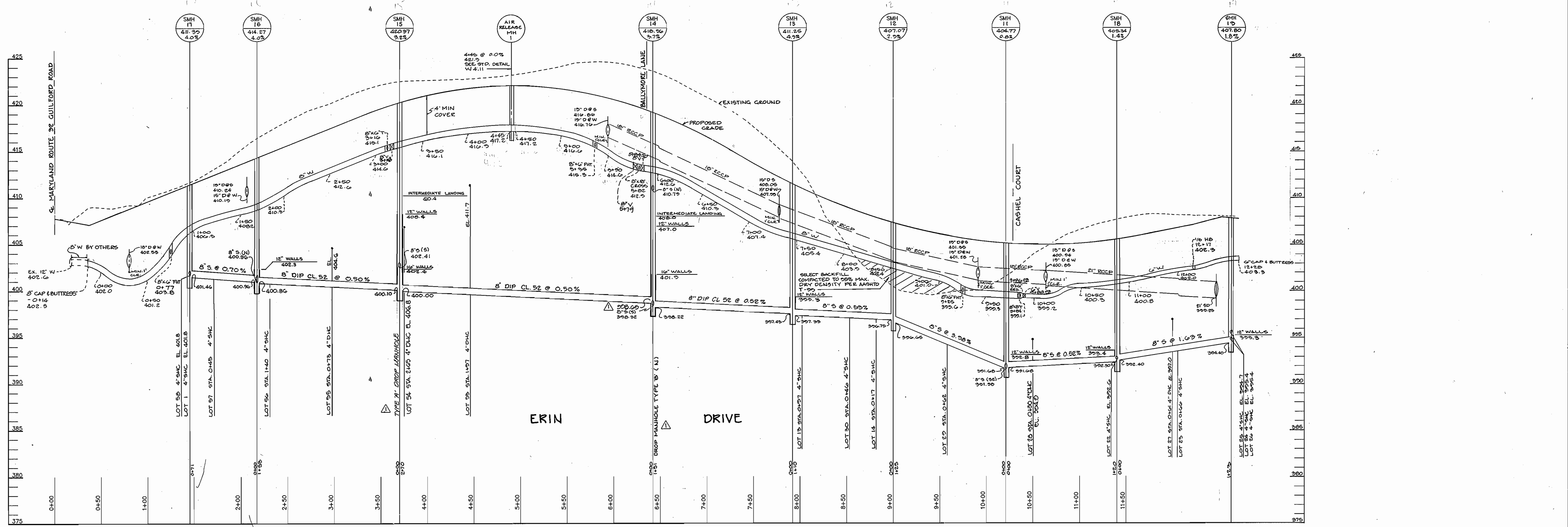
3394 ws/8 Clarks Glen, 1/1



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

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

AS-BUILT

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

*Michael J. ...*  
CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING (ZONING)  
HOWARD COUNTY, MARYLAND

*Michael J. ...*  
CHIEF, DEVELOPMENT ENGINEERING DIVISION

RIEMER MUEGGE & ASSOCIATES, INC.  
Planners • Engineers • Surveyors  
8818 Centre Park Drive • Suite 200 • Columbia, MD 21046  
410-997-8800 FAX: 410-997-8282

*J. ...*  
JAYKANT V. PAREKH P.E. #19148



DES: BRD					
DRN: BRD					
CHK: AAP	RJC	CHANGE ELS. TO 4 SMH'S. NOS. 31, 32, 33 & 39 A. RENUMBERED SHEET.	6-24-99		
DATE: 6/21/05	MAD	REDED INV. SMH 14 & LABELLED DROP MANHOLES	10-10-05		
	BY	NO.	REVISION	DATE	600' SCALE MAP NO. 35 BLOCK NO. 15

WATER AND SEWER PROFILES

CLARKS GLEN, SECTION 1 AREA 1  
LOTS 1 - 64

TAX MAP: 35 PARCEL: 205  
5th ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND  
CONTRACT NO. 34-3394-D

SCALE AS SHOWN

SHEET 8 OF 8

AS-BUILT