

**QUANTITIES**

NAME OF UTILITY CONTRACTOR		SURVEY AND DRAFTING DIVISION AS-BUILT DATE :		
ITEMS	QUANTITIES ESTIMATED	AS-BUILT		
		QUANTITIES	TYPE	MANUFACTURER/SUPPLIER
8" Water	137LF			
6" Valve	2			
6" Wk	14LF			
8" Cap & Buttress	1			
Fire Hydrant	1			
1-1/2" Force Main	16RLE			
Terminal Manhole	1			
1-1/2" SHC (FM)	32RLE			

# PUBLIC WATER AND SEWER PLAN

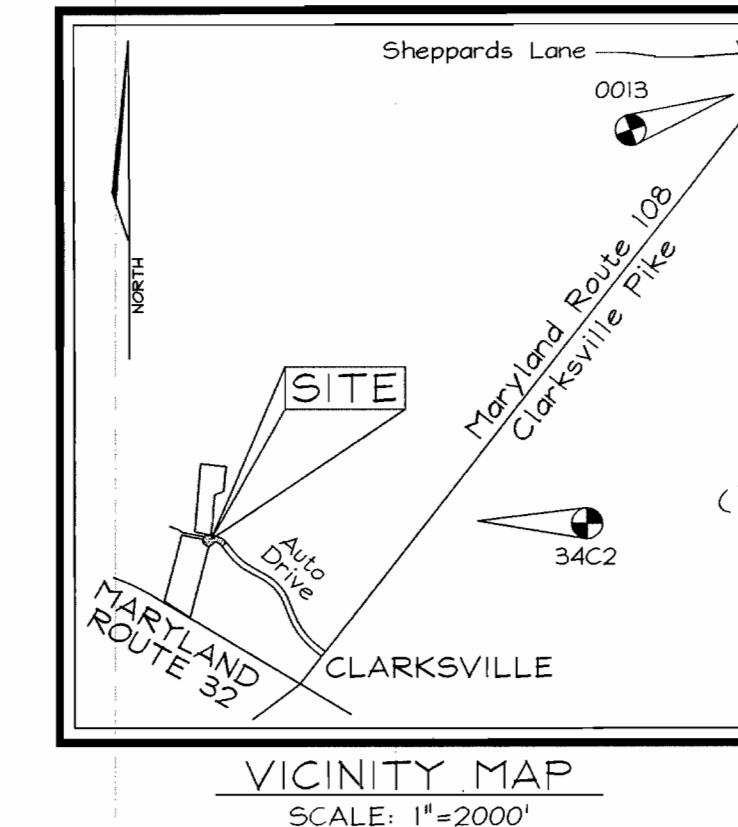
## AUTO PARK EXPANSION

### HOLWECK SUBDIVISION

#### HOWARD COUNTY, MARYLAND

#### CONTRACT NO. 34-3942-D

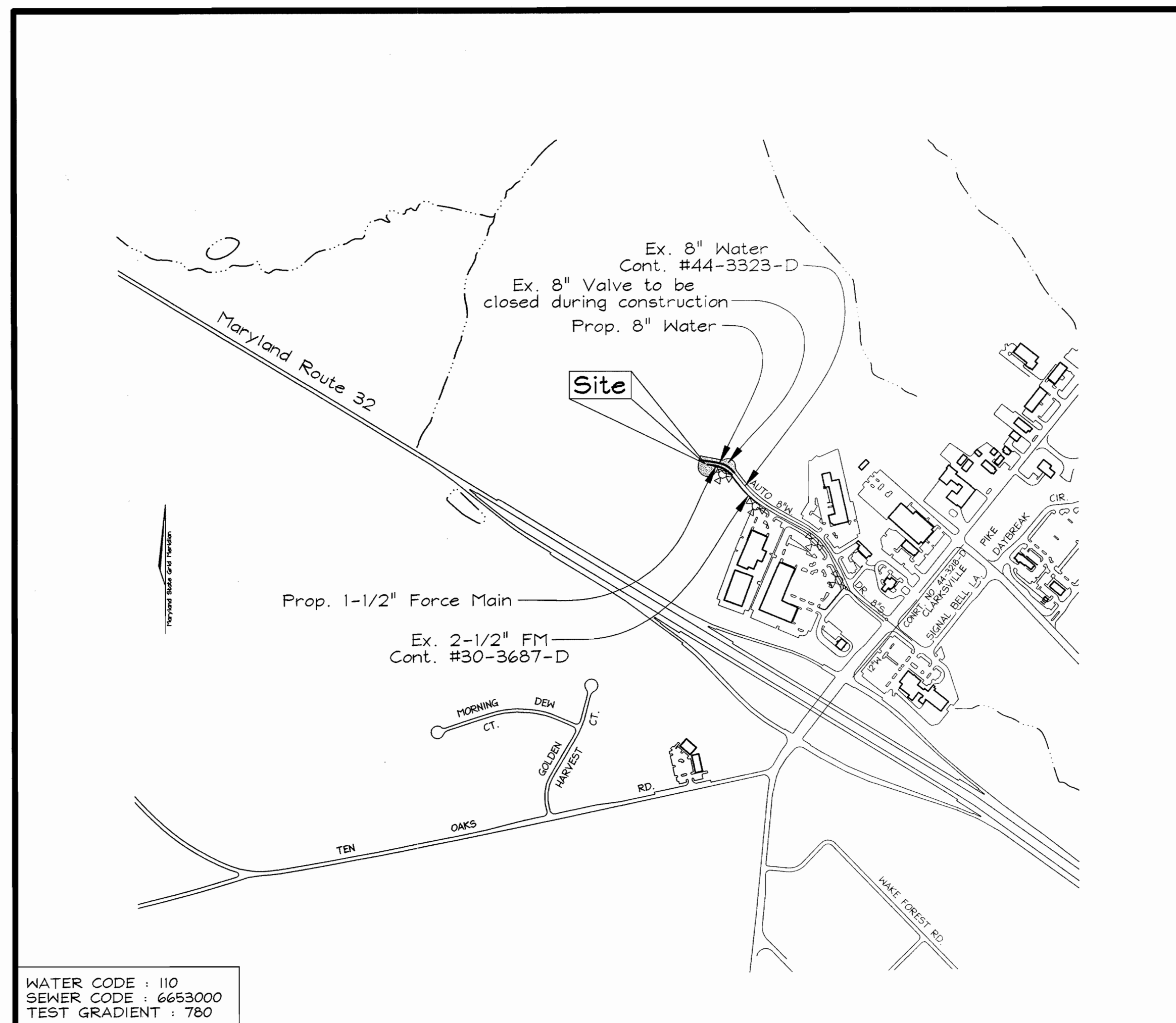
**BENCHMARKS**  
 Howard County Station 34C2  
 N 562,321.798 E 1,329,750.722  
 Howard County Station 0013  
 N 564,285.946 E 1,331,309.715



**GENERAL NOTES**

- PART I**
- 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.
  - ALL HORIZONTAL CONTROLS ARE BASED ON MARYLAND STATE COORDINATES.
  - ALL VERTICAL CONTROLS ARE BASED ON MARYLAND STATE COORDINATES.
  - ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
  - 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 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.
  - FOR DETAILS NOT SHOWN ON THE DRAWINGS, 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.
  - THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN THESE PLANS:
 

VERIZON	1-800-621-9900
STATE HIGHWAY ADMINISTRATION	531-5533
B.G. & E. CO. CONTRACTOR SERVICES	850-4620
B.G. & E. CO. UNDER GROUND DAMAGE CONTROL	787-9068
MISS UTILITY	1-800-257-7777
COLONIAL PIPELINE CO.	795-1390
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS	313-4900
BUREAU OF UTILITIES	
  - 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) 313-2450 AT LEAST FIVE WORKING DAYS BEFORE ANY OPEN CUT OF ANY COUNTY ROAD OR BORING/JACKING OPERATION IN COUNTY ROADS FOR LAYING WATER/SEWER MAIN OR HOUSE CONNECTIONS. THE APPROVAL OF THESE DRAWINGS WILL CONSTITUTE COMPLIANCE WITH DPN REQUIREMENTS PER SECTION 18.114(g) OF THE HOWARD COUNTY CODE.



WATER CODE : 110  
 SEWER CODE : 6653000  
 TEST GRADIENT : .780

Type of Building :	Commercial
No. of Lots/Parcels :	2
No. of single Water House Connections :	2
No. of twin Water House Connections :	0
No. of Sewer House Connections :	2
Drainage Area :	Middle Patuxent River
Treatment Plant :	Little Patuxent Waste Water Plant

**LOCATION PLAN**  
SCALE : 1"=600'

**PART II - WATER**

- ALL WATER MAINS TO BE D.I.P. CLASS 52 UNLESS OTHERWISE NOTED.
- TOPS OF ALL WATER MAINS TO HAVE A MINIMUM OF 3'-1/2" 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 RESTRAINED AND BUTTRESSED WITH CONCRETE 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 INSIDE METER SETTING UNLESS OTHERWISE NOTED ON PLANS OR IN SPECIFICATIONS.

**PART III - SEWER**

- ALL SEWER MAINS SHALL BE DIP CLASS 52 OR P.V.C. UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL PROVIDE A JOINT IN ALL SEWER MAINS WITHIN 2'-0" OF EXTERIOR MANHOLE WALL.
- ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER UNLESS OTHERWISE NOTED.
- MANHOLES SHOWN WITH 12" AND 16" WALLS ARE FOR BRICK MANHOLES ONLY.
- MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATERTIGHT FRAME AND COVERS, STANDARD DETAIL G6.52 WHERE WATERTIGHT MANHOLE FRAME AND COVER IS USED. SET TOP OF FRAME 18" ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- HOUSE(S) WITH THE SYMBOL "C.N.S." INDICATES THAT CELLAR CANNOT BE SERVED.
- LOCATIONS AND DEPTHS FOR ENVIRONMENTAL ONE PUMP WILL BE DETERMINED IN THE FIELD BY THE CONTRACTOR.
- ENVIRONMENTAL ONE PUMP TO BE PRIVATELY MAINTAINED, OWNED AND INSTALLED BY THE PROPERTY OWNER.

SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE SPECIFICATIONS AND WITH ROAD CONSTRUCTION PLAN F-01-029

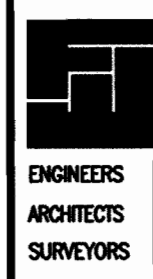
THIS DEVELOPMENT IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.  
*John R. Robertson* 4/19/01  
 SOIL CONSERVATION DISTRICT

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.  
*Jim Meyer* 4/19/01  
 U.S. SOIL CONSERVATION DISTRICT



DEPARTMENT OF PUBLIC WORKS  
 HOWARD COUNTY, MARYLAND  
*Nicholas A. Krawinkel* 4/16/01  
 CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING & ZONING  
 HOWARD COUNTY, MARYLAND  
*Heather* 4/16/01  
 CHIEF, DEVELOPMENT ENGINEERING DIVISION



**FREDERICK WARD ASSOCIATES, INC.**  
 7125 Riverwood Drive Columbia, Maryland 21046-2354  
 Phone: 410-290-9550 Fax: 410-720-6226  
 Bel Air, Maryland Columbia, Maryland Warrenton, Virginia

DES: PS					
DRN: RLP					
CHK: RHV					
DATE: Feb 2001	BY	NO.	REVISION	DATE	

COVER SHEET

**AUTO PARK EXPANSION**  
 HOLWECK SUBDIVISION  
 CONTRACT No. 34-3942-D

TAX MAP #34 BLOCK #6  
 5TH ELECTION DISTRICT

PARCELS K-1 & L-1  
 HOWARD COUNTY, MARYLAND

SCALE AS SHOWN  
 SHEET 1 OF 3

LOT 3  
HOLWECK SUBDIVISION  
EDMOND CHARLES AND  
ETTA JANE HOLWECK  
ZONED R-C

LOT 4  
HOLWECK SUBDIVISION  
EDMOND CHARLES HOLWECK  
ZONED R-C

PARCEL K-1  
5.2806 Acres  
Zoned B-2

PARCEL L-1  
3.4234 Acres  
Zoned B-2

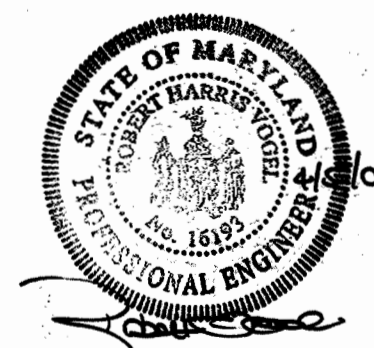
NOTE:  
ENVIRONMENT ONE(E-1) MODEL 2014  
WITH HYCAR STATOR, ELECTRICAL PANEL  
260-1, 240 VAC SINGLE PHASE  
ENVIRONMENT ONE(E-1) TO BE  
PRIVATELY OWNED MAINTAINED.  
LOCATIONS AND DEPTHS FOR ENVIRONMENT  
ONE(E-1) MODEL GP 2014 PUMP WILL BE  
DETERMINED IN THE FIELD BY THE  
CONTRACTOR.

PROPOSED TERMINAL FLUSHING  
CONNECTION AS PER WSSC DETAIL  
PS. 1.2' 2" CAP AND BLOCKING AS  
PER WSSC DETAIL PS 1.41  
SEE SHEET 3 OF 3 FOR DETAILS

PARCEL E-2  
HOLWECK SUBDIVISION  
ZONED B-2

COLEMAN HONDA  
PARCEL F-1  
HOLWECK SUBDIVISION  
108 LIMITED PARTNERSHIP  
ZONED B-2  
SDP-99-093

OURISMAN  
CHRYSLER PLYMOUTH JEEP  
PARCEL D-1  
HOLWECK SUBDIVISION  
ZONED B-2  
SDP-96-068



PLAN VIEW  
SCALE: 1"=50'

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING  
HOWARD COUNTY, MARYLAND



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DES: PS  
DRN: PS  
CHK: RHV  
DATE: April 2001

BY	NO.	REVISION

**WATER AND SEWER PLAN**

**AUTO PARK EXPANSION**  
HOLWECK SUBDIVISION  
CONTRACT No. 39-3942-D

TAX MAP #34 BLOCK #6  
5TH ELECTION DISTRICT

PARCELS K-1 & L-1  
HOWARD COUNTY, MARYLAND

SCALE  
AS  
SHOWN

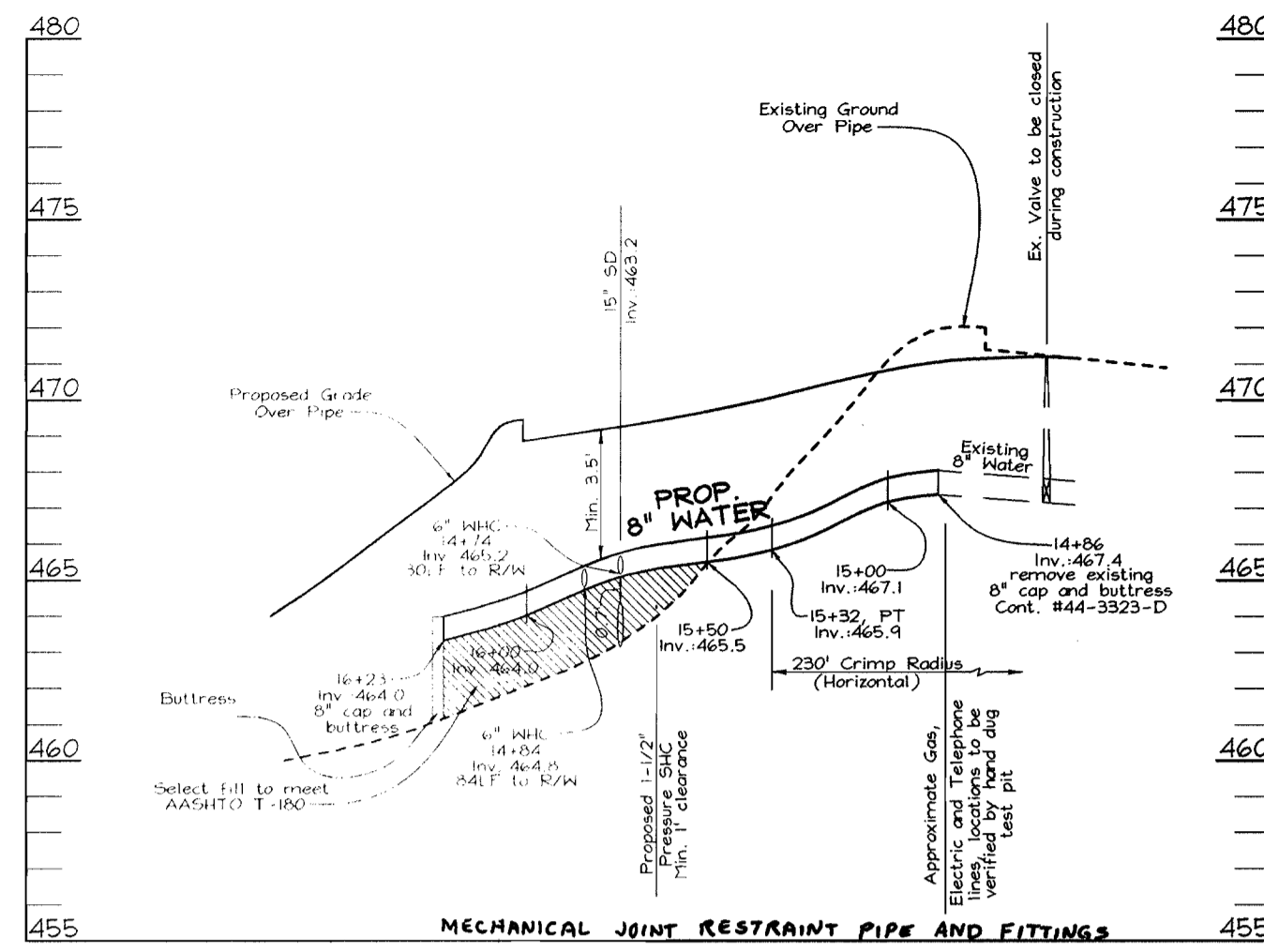
SHEET  
2 OF 3

CHIEF, BUREAU OF UTILITIES

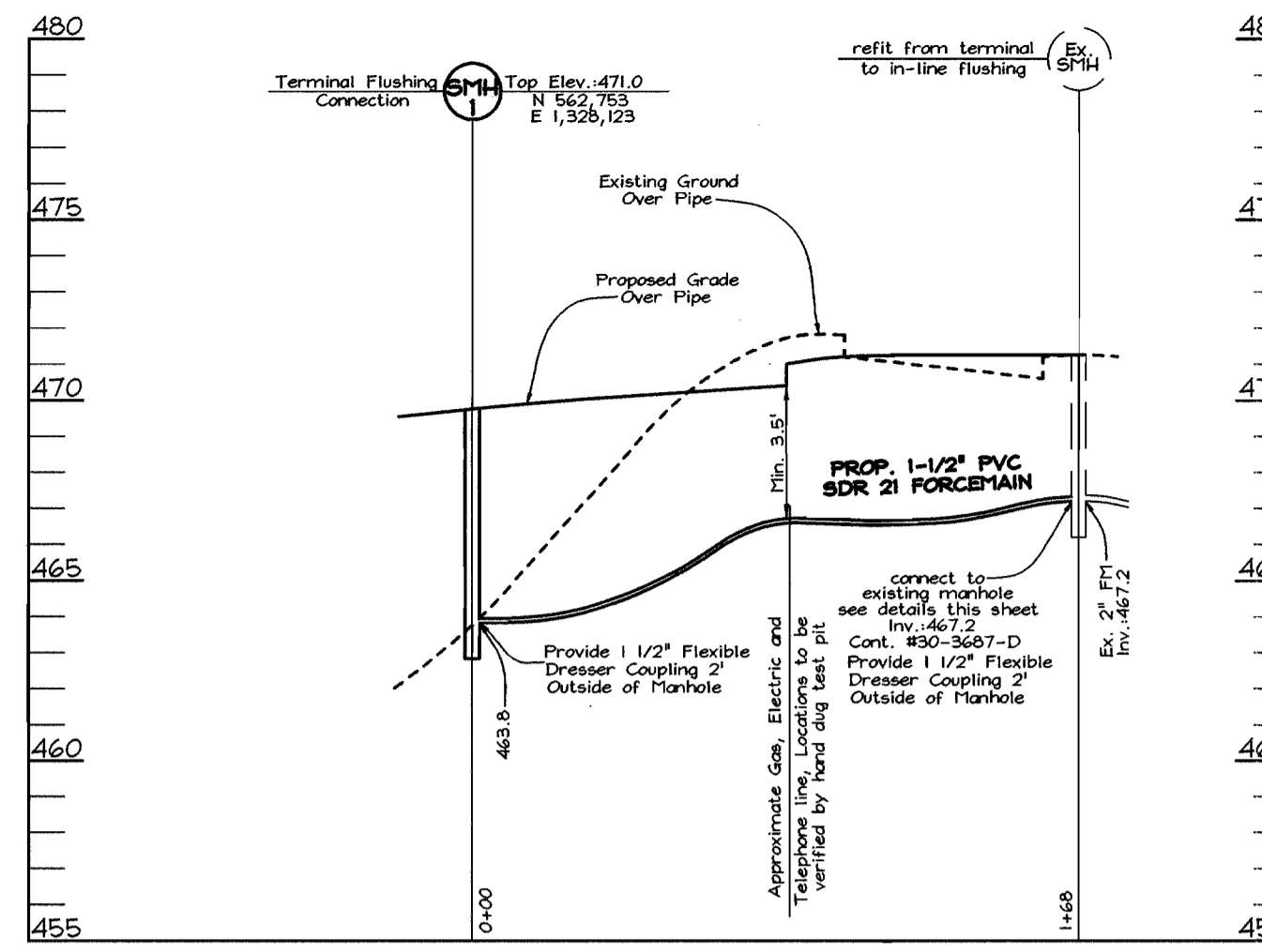
CHIEF, DEVELOPMENT ENGINEERING DIVISION

DATE 600' SCALE MAP NO. 34 BLOCK NO. 6

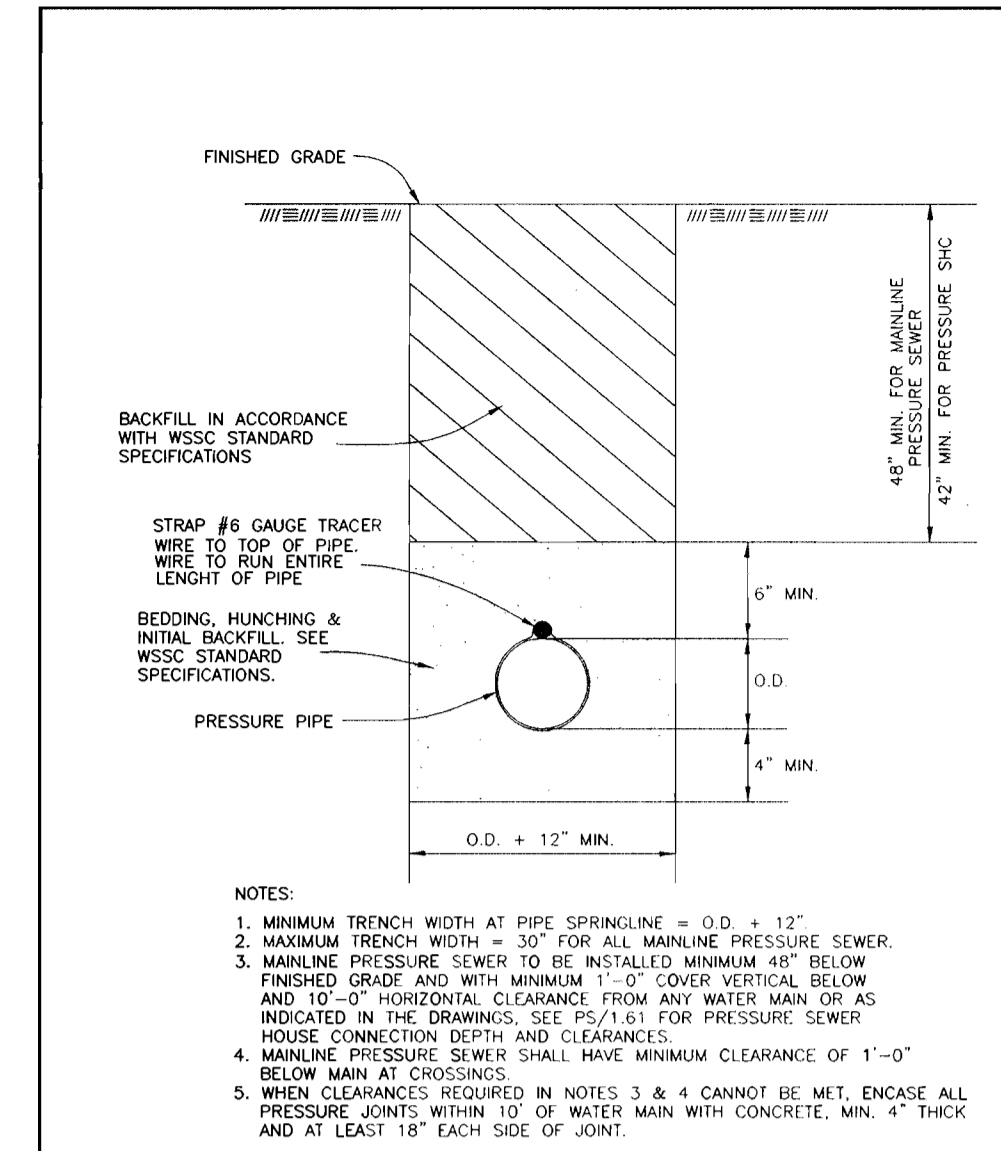




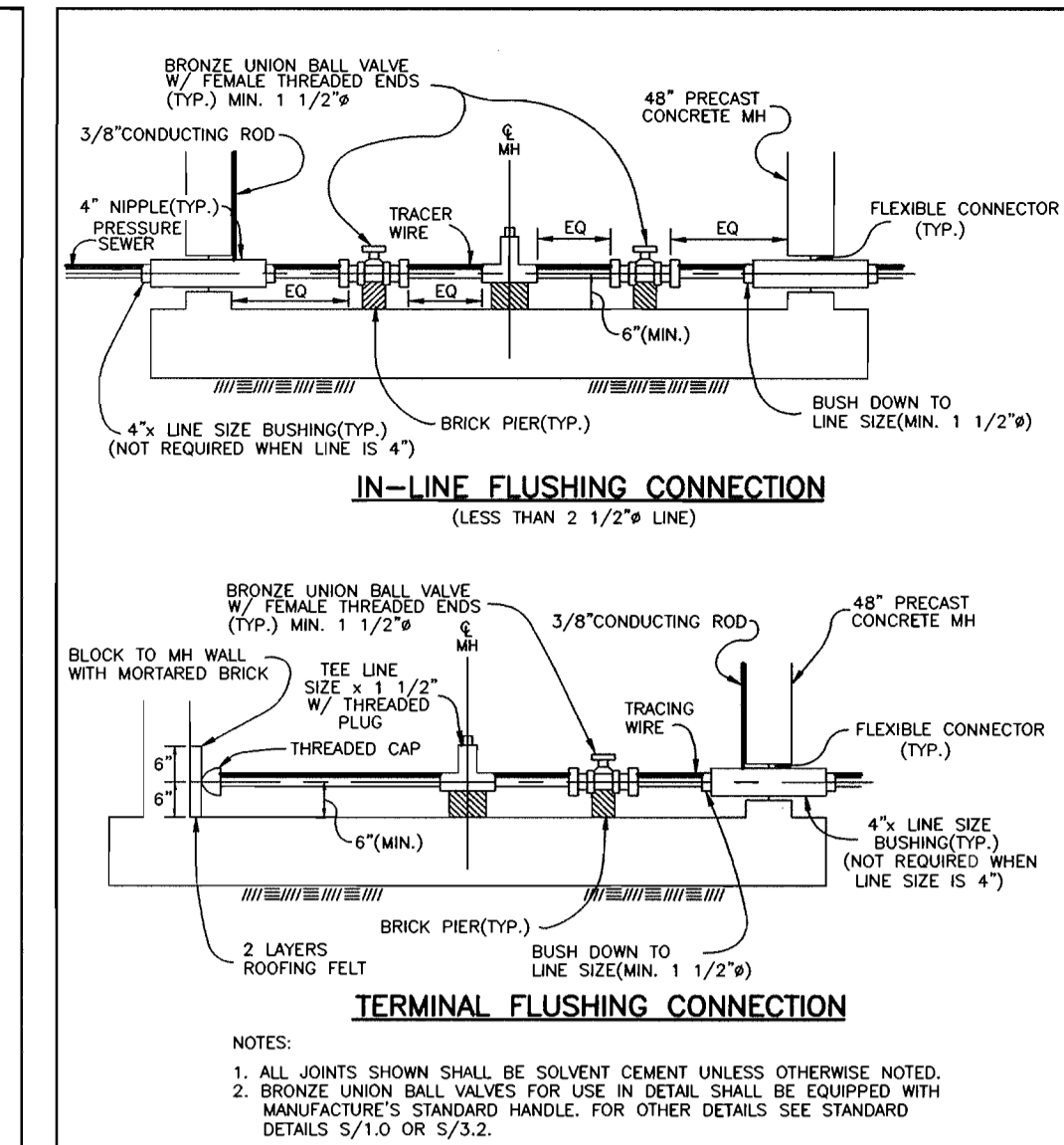
**WATER PROFILE**  
 SCALE: HORIZONTAL - 1"=50'  
 VERTICAL - 1"=5'



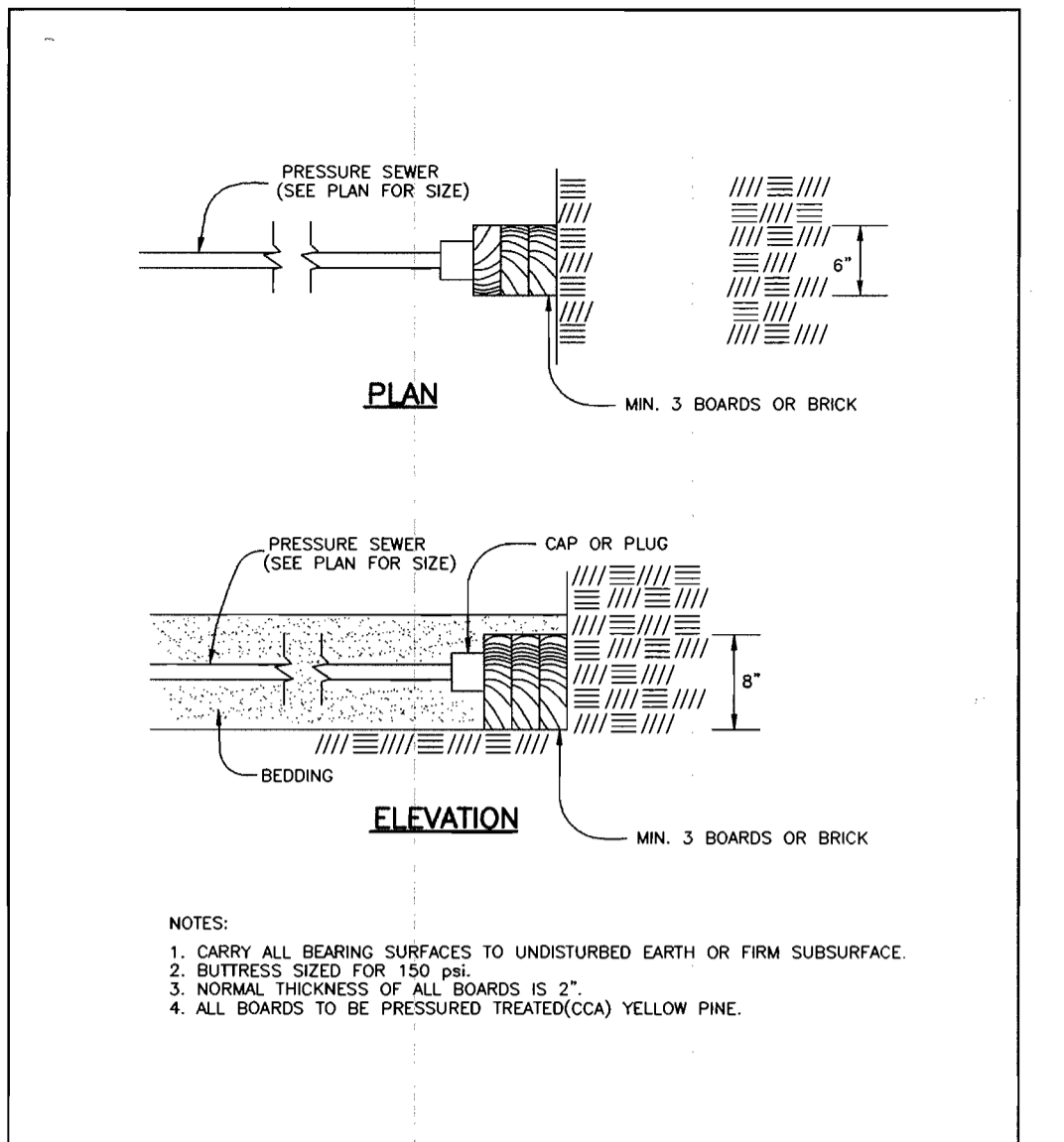
**SEWER PROFILE**  
 SCALE: HORIZONTAL - 1"=50'  
 VERTICAL - 1"=5'



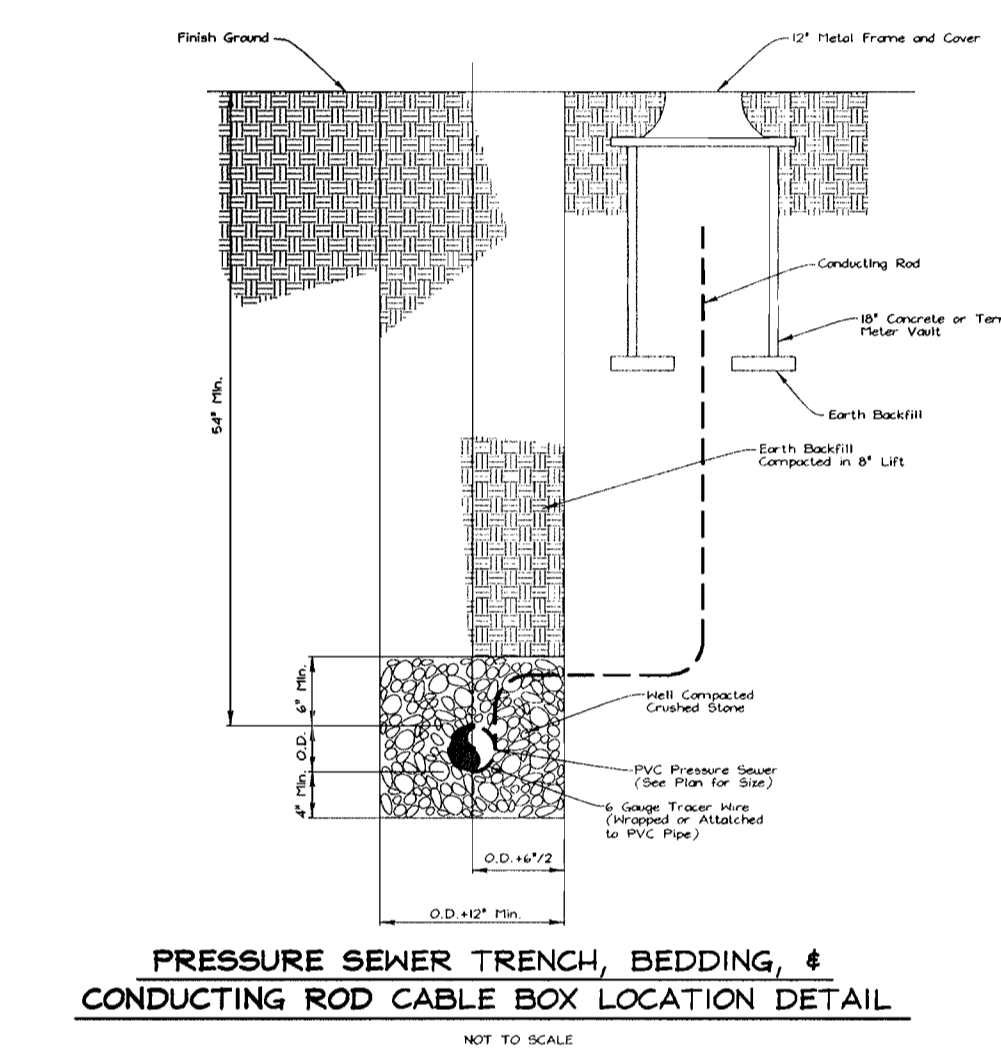
STANDARD DETAIL  
**PRESSURE SEWER, HOUSE CONNECTION TRENCH & BEDDING DETAIL**  
 PS 1.0



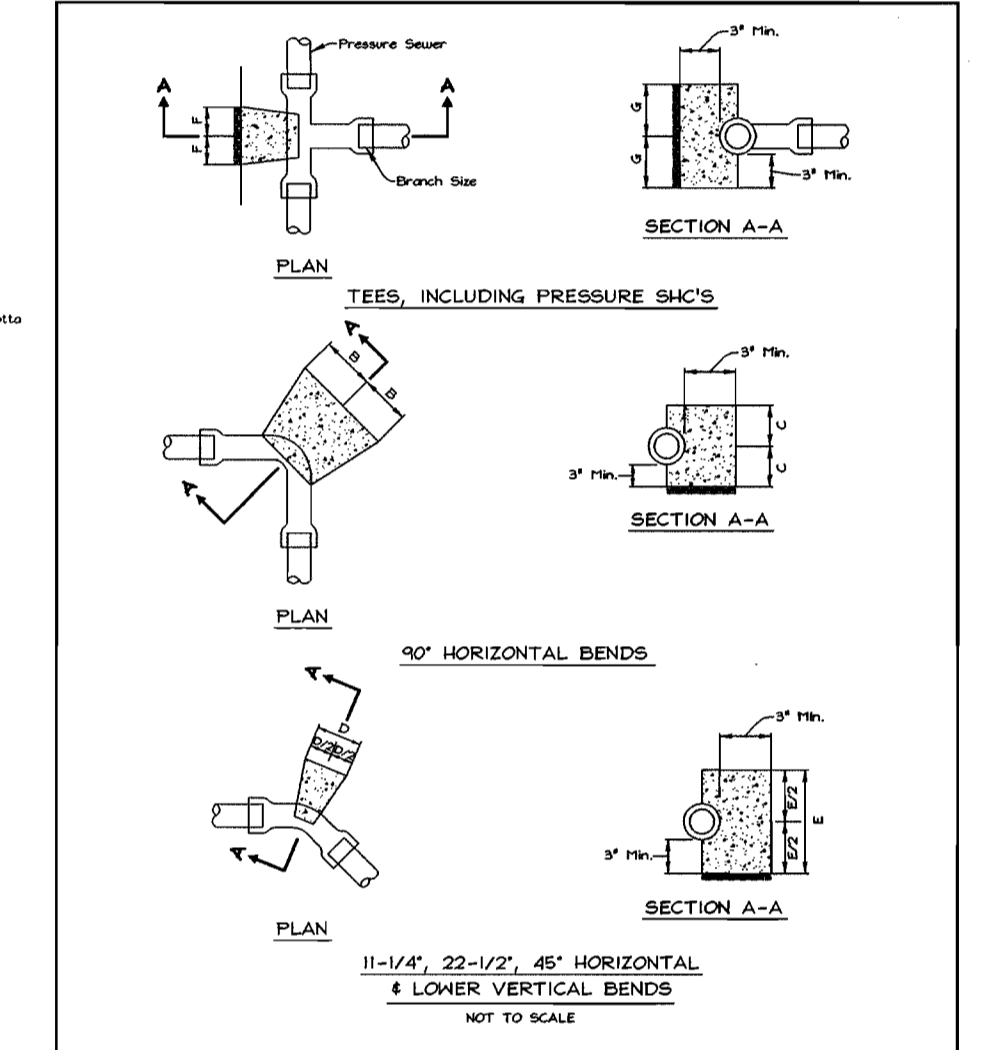
STANDARD DETAIL  
**FLUSHING CONNECTION**  
 PS 1.2



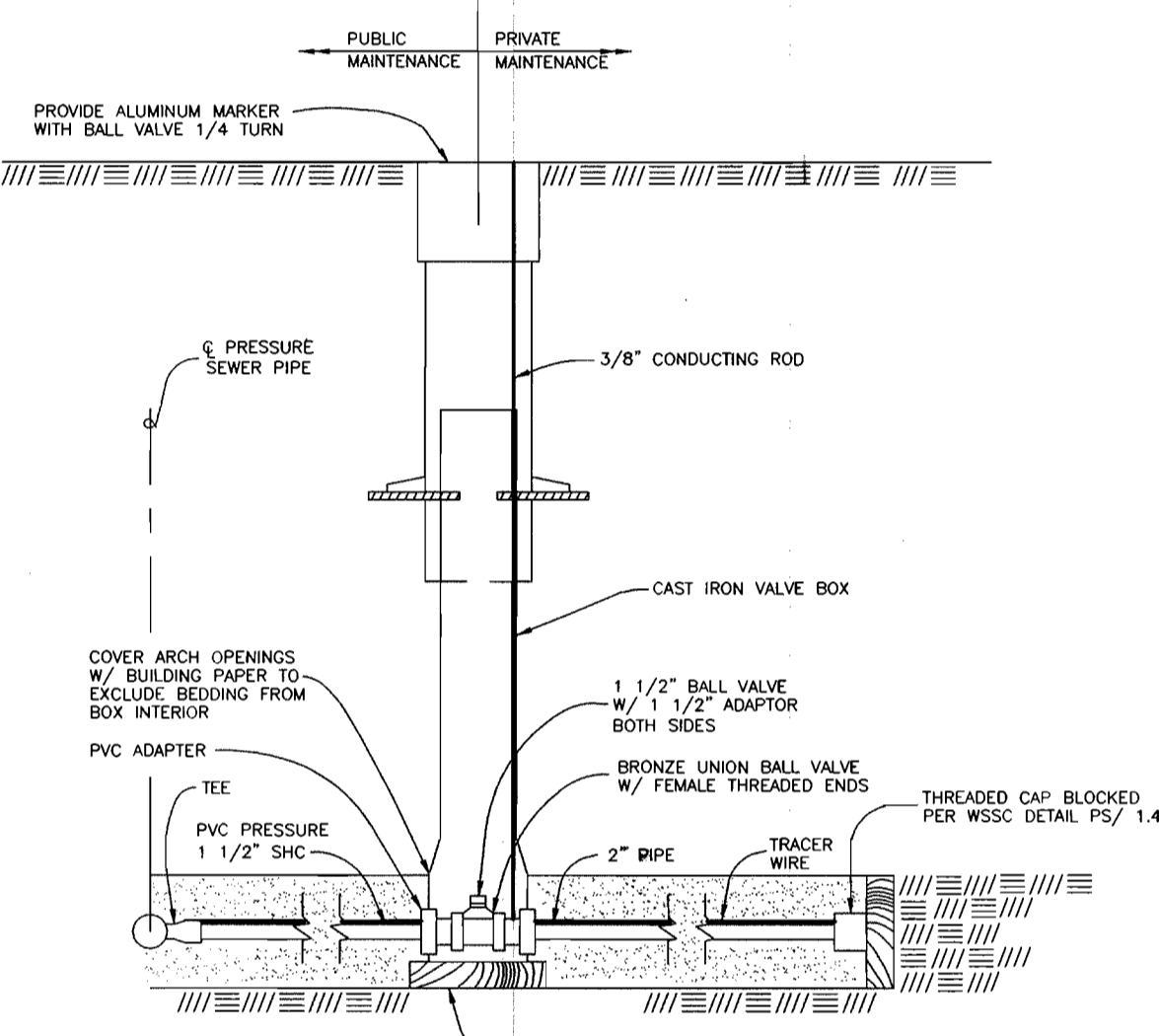
STANDARD DETAIL  
**PRESSURE SEWER & HOUSE CONNECTION BLOCKING DETAILS FOR CAPS & PLUGS**  
 PS 1.41



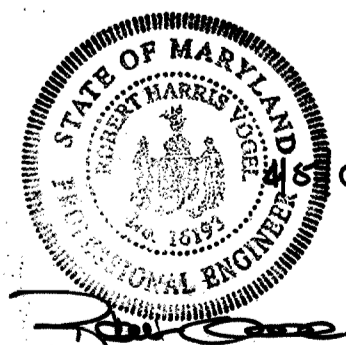
STANDARD DETAIL  
**PRESSURE SEWER TRENCH, BEDDING, & CONDUCTING ROD CABLE BOX LOCATION DETAIL**  
 NOT TO SCALE



STANDARD DETAIL  
**PRESSURE SEWER BLOCKING DETAILS**  
 PS 1.4



STANDARD DETAIL  
**BALL VALVE CONNECTION DETAIL**  
 NO SCALE



DEPARTMENT OF PUBLIC WORKS  
 HOWARD COUNTY, MARYLAND  
 [Signature] 4/1/01  
 CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING & ZONING  
 HOWARD COUNTY, MARYLAND  
 [Signature] 4/1/01  
 CHIEF, DEVELOPMENT ENGINEERING DIVISION

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 7125 Riverwood Drive Columbia, Maryland 21046-2354  
 Phone: 410-290-9550 Fax: 410-720-6226  
 Bel Air, Maryland Columbia, Maryland Warrenton, Virginia

DES: PS				
DRN: PS				
CHK: RHV				
DATE: April 2001				
BY: NO.		REVISION		DATE

**WATER AND SEWER PROFILES AND DETAILS**  
 600' SCALE MAP NO. 34 BLOCK NO. 6

**AUTO PARK EXPANSION**  
 HOLWECK SUBDIVISION  
 CONTRACT No. 34-3942-D  
 PARCELS K-1 & L-1  
 HOWARD COUNTY, MARYLAND

SCALE AS SHOWN  
 SHEET 3 OF 3

**QUANTITIES**

NAME OF UTILITY CONTRACTOR				
SURVEY AND DRAFTING DIVISION AS-BUILT DATE :				
ITEMS	QUANTITIES ESTIMATED	AS-BUILT		
		QUANTITIES	TYPE	MANUFACTURER/SUPPLIER
8" Water	137LF	137		HUGES SUPPLY
6" Valve	2	2		HUGES SUPPLY
6" WHC	114LF	114		HUGES SUPPLY
8" Cap & Buttress	1	1		HUGES SUPPLY
Fire Hydrant	1	1		
1-1/2" Force Main	168LF	168		HUGES SUPPLY
Terminal Manhole	1	1		CONTRACTOR PRECAST CORR.
1-1/2" SHC (FM)	325LF	123		HUGES SUPPLY

# PUBLIC WATER AND SEWER PLAN

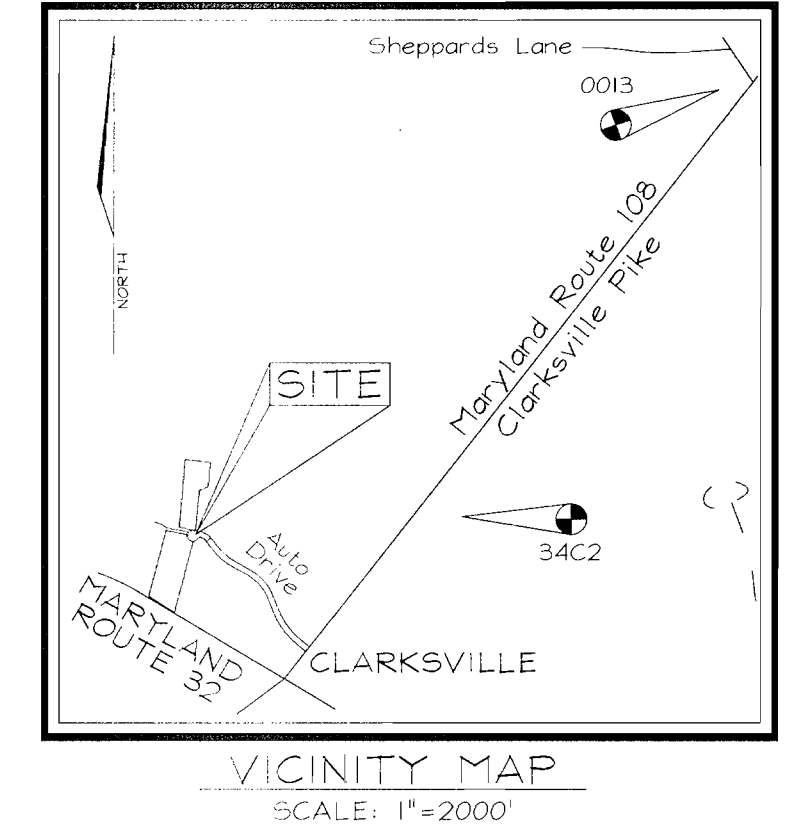
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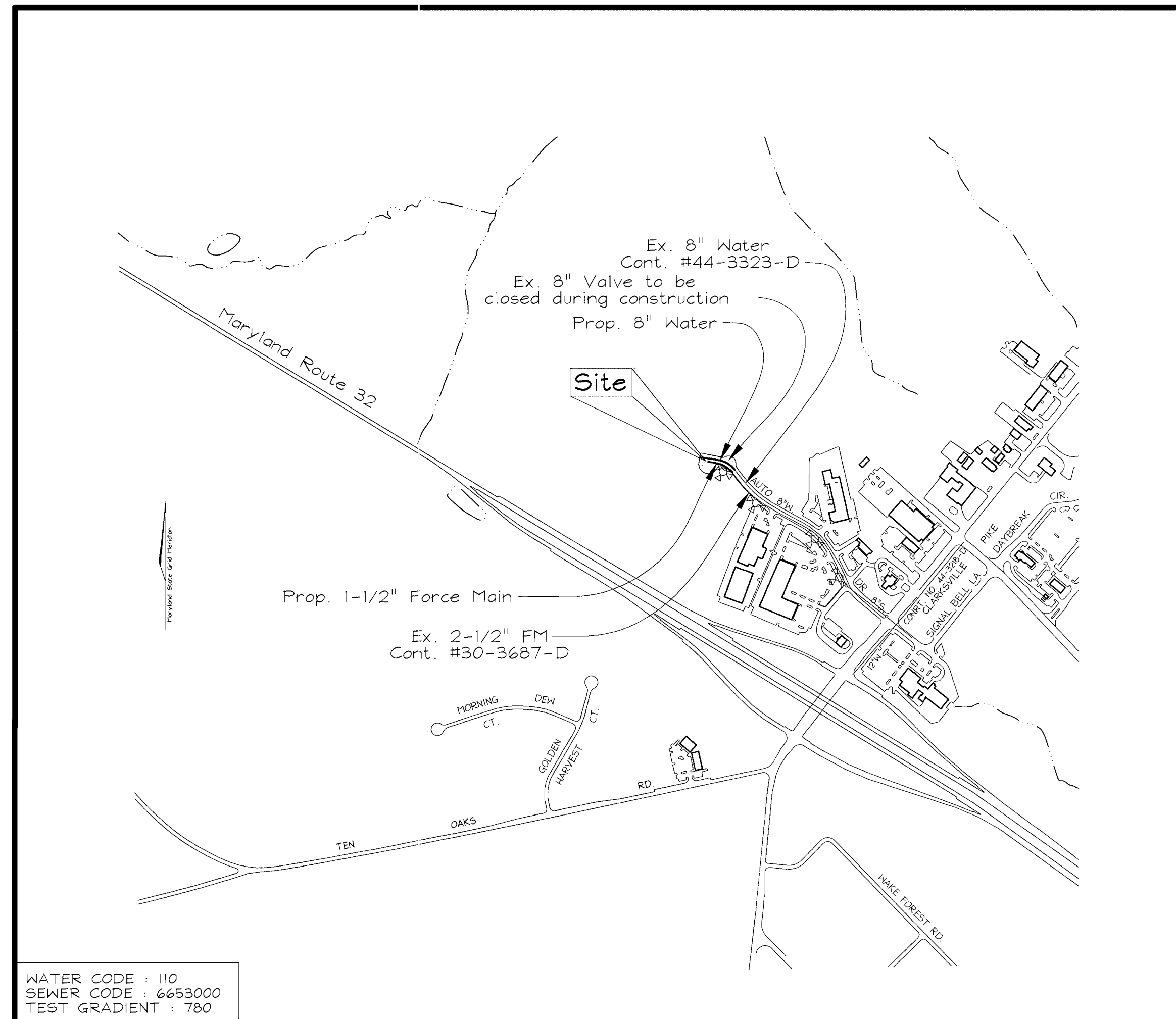
**BENCHMARKS**  
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WATER CODE : 110  
 SEWER CODE : 6653000  
 TEST GRADIENT : 780

Type of Building :	Commercial
No. of Lots/Parcels :	2
No. of single Water House Connections :	2
No. of twin Water House Connections :	0
No. of Sewer House Connections :	2
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Treatment Plant :	Little Patuxent Waste Water Plant

**LOCATION PLAN**  
 SCALE : 1"=600'

**PART II - WATER**

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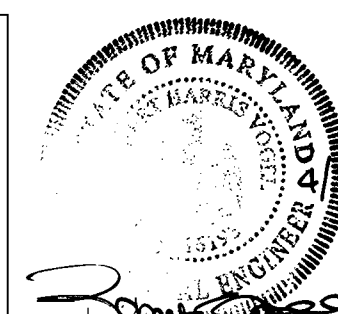
REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

*John R. Robertson*  
 SOIL CONSERVATION DISTRICT

4/19/01  
 DATE

*Jim Meyer*  
 U.S. SOIL CONSERVATION DISTRICT

4/19/01  
 DATE



**FREDERICK WARD ASSOCIATES, INC.**  
 7125 Riverwood Drive Columbia, Maryland 21046-2354  
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DES: PS			
DRN: RLP			
CHK: RHV			
DATE: Feb. 2001	K.C.I. 1	ASBUILT DATA ADDED TO PLAN	12/13/01
BY: NO.		REVISION	DATE

**COVER SHEET**

**AUTO PARK EXPANSION**  
 HOLWECK SUBDIVISION  
 CONTRACT No. 34-3942-D

SCALE AS SHOWN

SHEET 1 OF 3

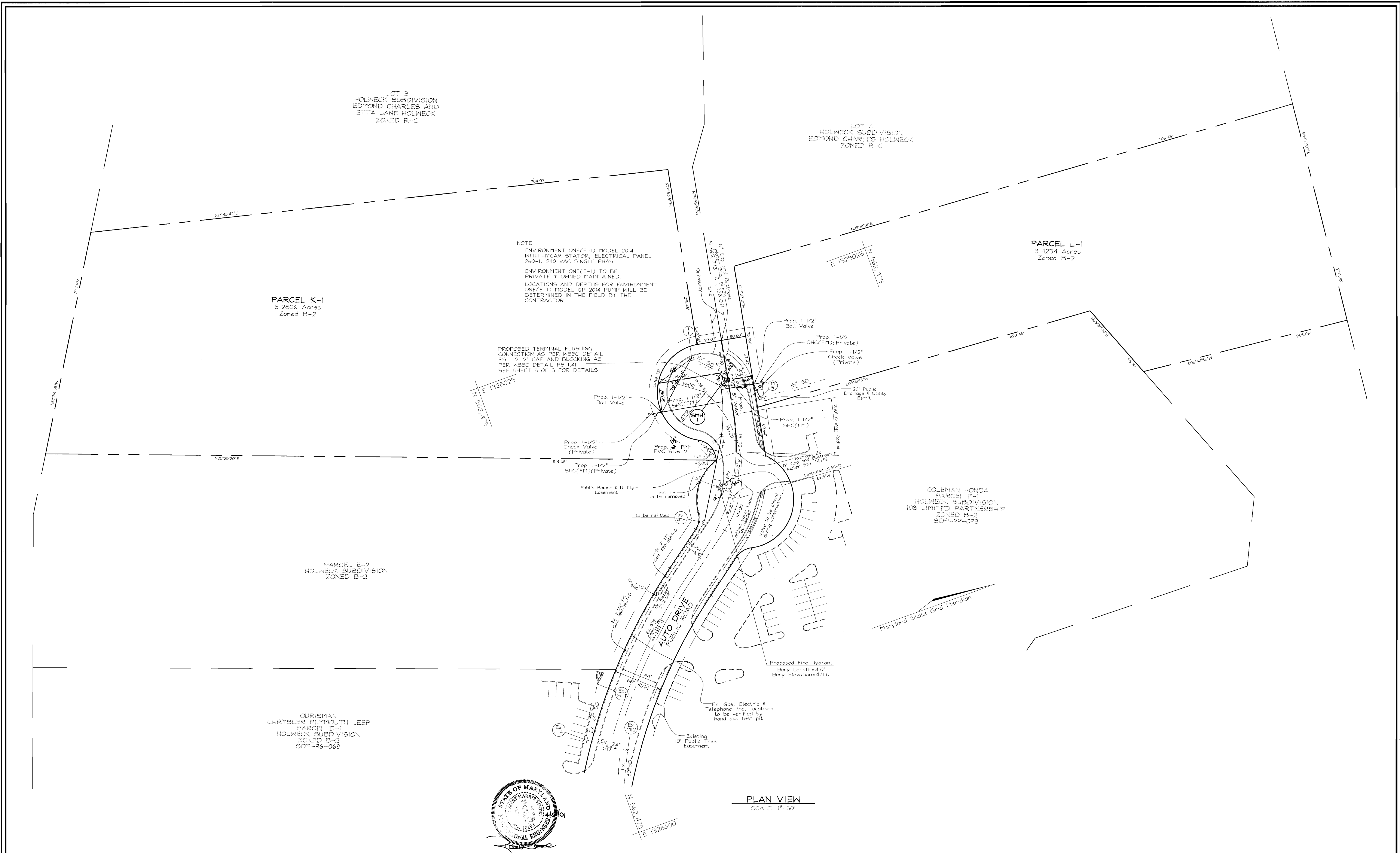
TAX MAP #34 BLOCK #6 5TH ELECTION DISTRICT  
 PARCELS K-1 & L-1 HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS  
 HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING  
 HOWARD COUNTY, MARYLAND

*Nicholas...*  
 CHIEF, BUREAU OF UTILITIES

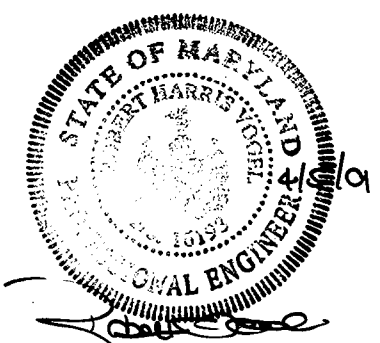
*...*  
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NOTE:  
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 WITH HYCAR STATOR, ELECTRICAL PANEL  
 260-1, 240 VAC SINGLE PHASE  
 ENVIRONMENT ONE(E-1) TO BE  
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 LOCATIONS AND DEPTHS FOR ENVIRONMENT  
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 CONTRACTOR.

PROPOSED TERMINAL FLUSHING  
 CONNECTION AS PER WSSC DETAIL  
 PS. 1.2' 2" CAP AND BLOCKING AS  
 PER WSSC DETAIL PS 1.41  
 SEE SHEET 3 OF 3 FOR DETAILS

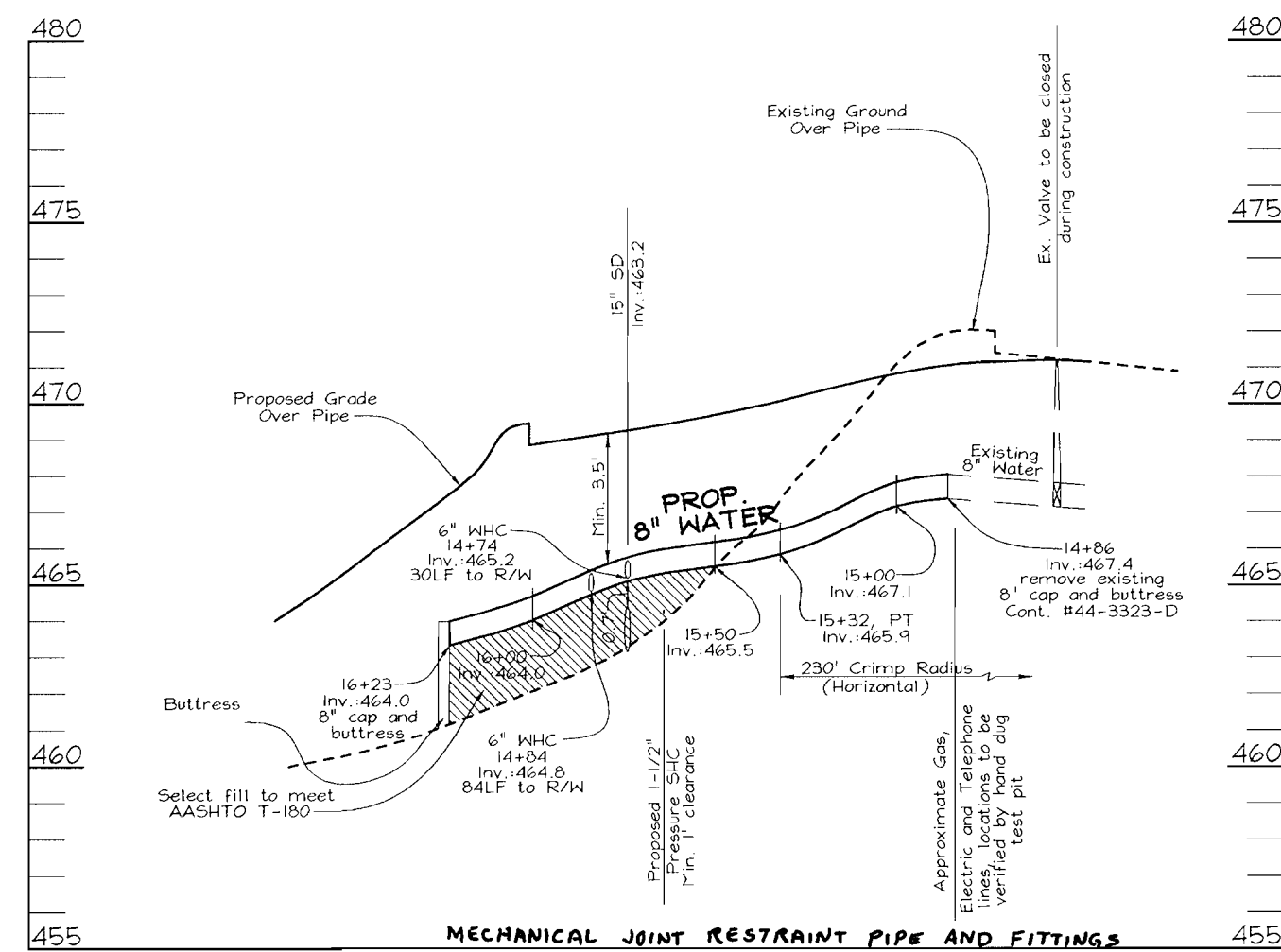
PLAN VIEW  
 SCALE: 1"=50'



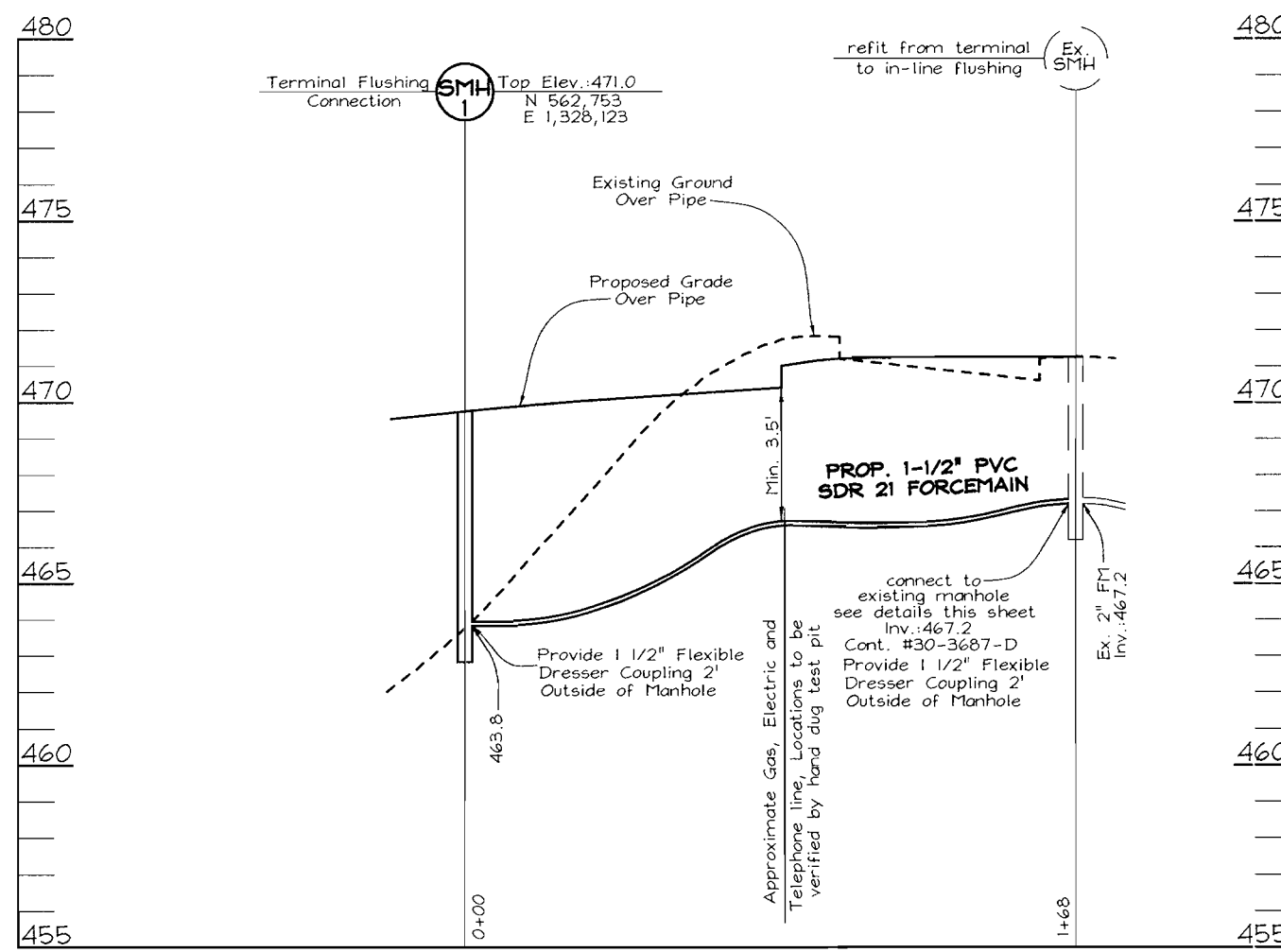
DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND RMB DATE: 4/16/01	DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND DATE: 4/16/01	 <b>FREDERICK WARD ASSOCIATES, INC.</b> ENGINEERS 7125 Riverwood Drive Columbia, Maryland 21046-2354 ARCHITECTS Phone: 410-290-9550 Fax: 410-720-6226 SURVEYORS Bel Air, Maryland Columbia, Maryland Warrenton, Virginia	DES: PS DRN: PS CHK: RHV DATE: April 2001 KCI 1 BY NO. REVISION DATE 12/3/01	<b>WATER AND SEWER PLAN</b> 600' SCALE MAP NO. 34 BLOCK NO. 6	<b>AUTO PARK EXPANSION</b> HOLWECK SUBDIVISION CONTRACT No. 39-3942-D TAX MAP #34 BLOCK #6 5TH ELECTION DISTRICT PARCELS K-1 & L-1 HOWARD COUNTY, MARYLAND	SCALE AS SHOWN SHEET 2 OF 3
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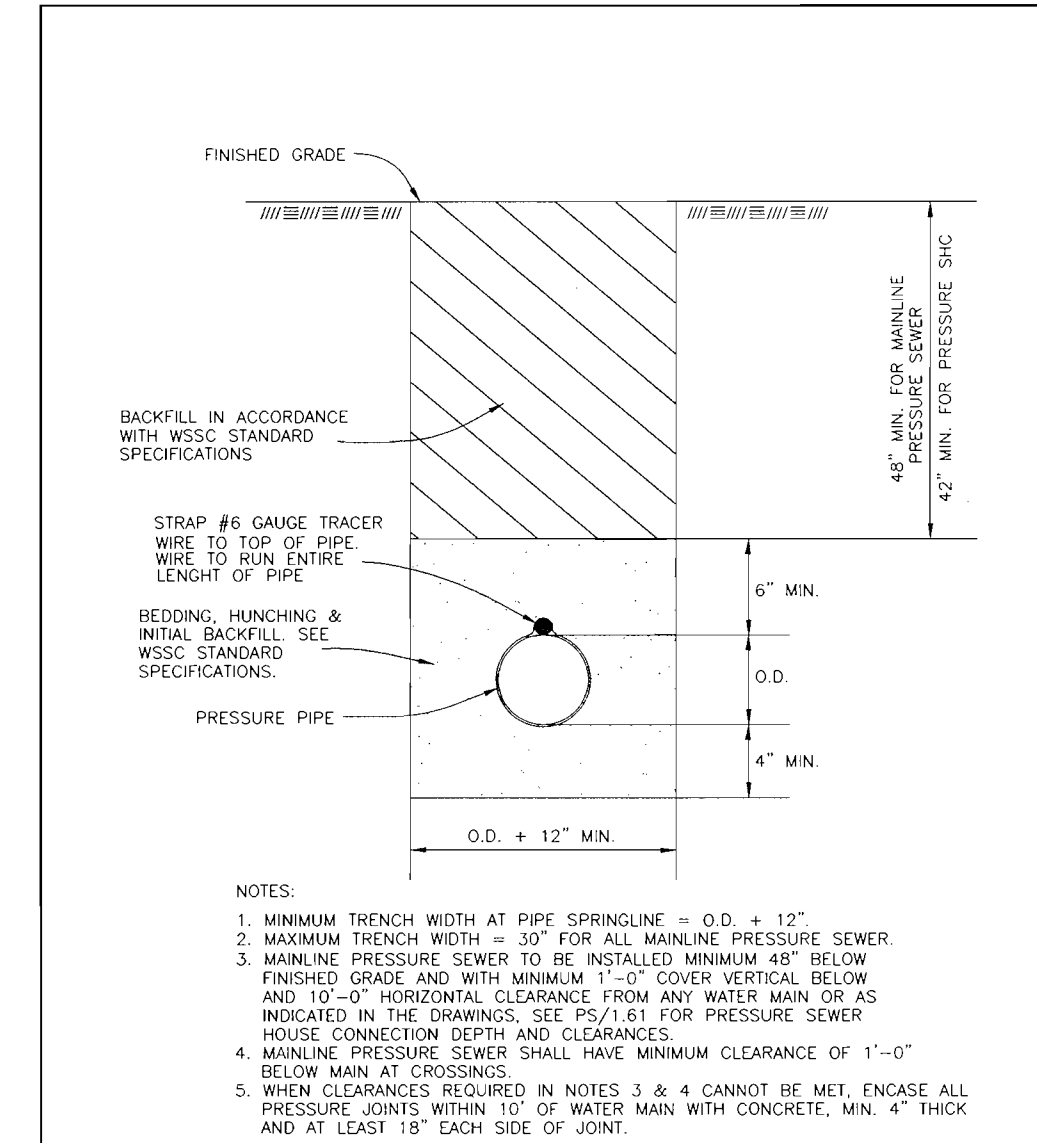




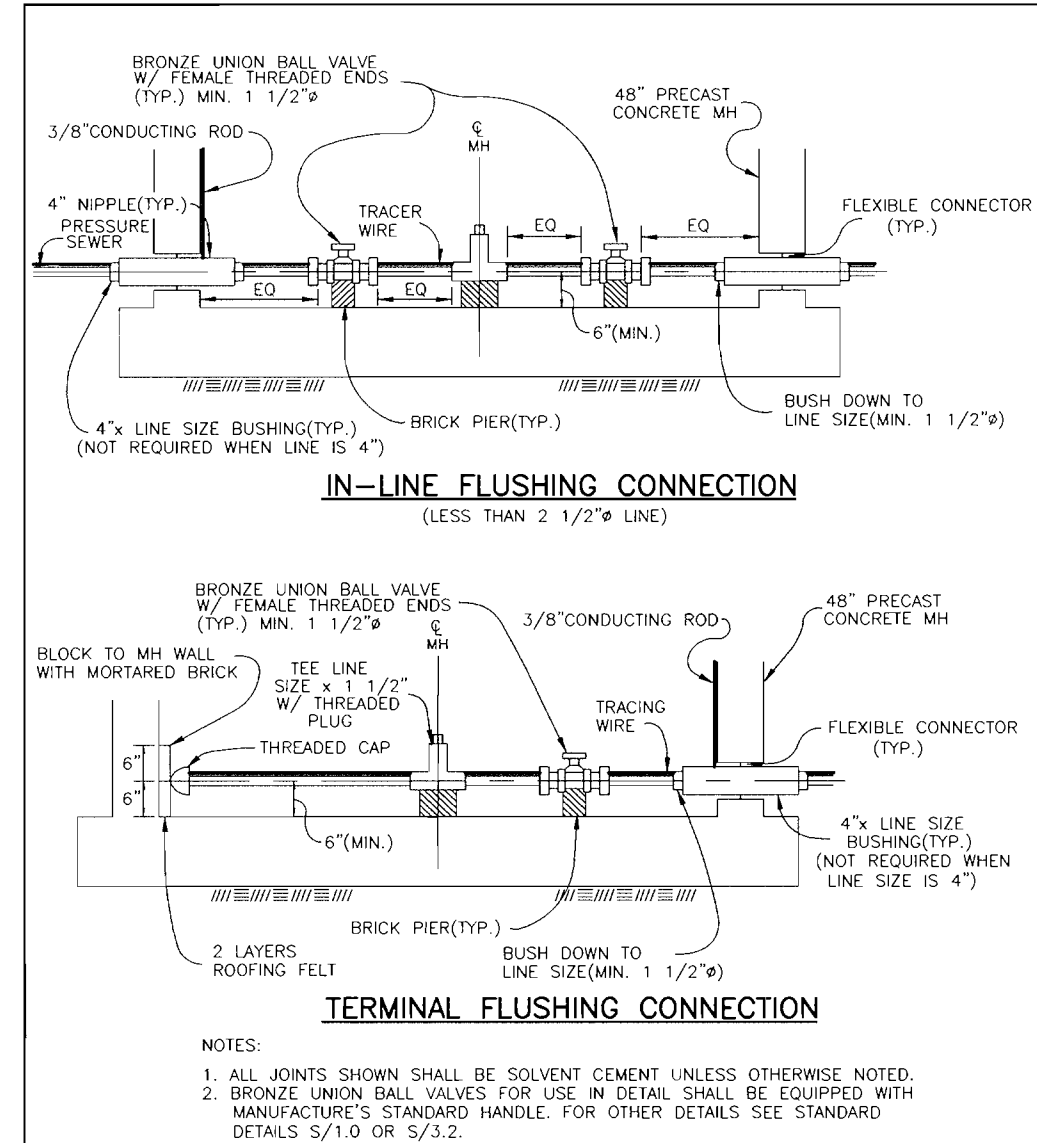
**MECHANICAL JOINT RESTRAINT PIPE AND FITTINGS**  
**WATER PROFILE**  
 SCALE: HORIZONTAL - 1"=50'  
 VERTICAL - 1"=5'



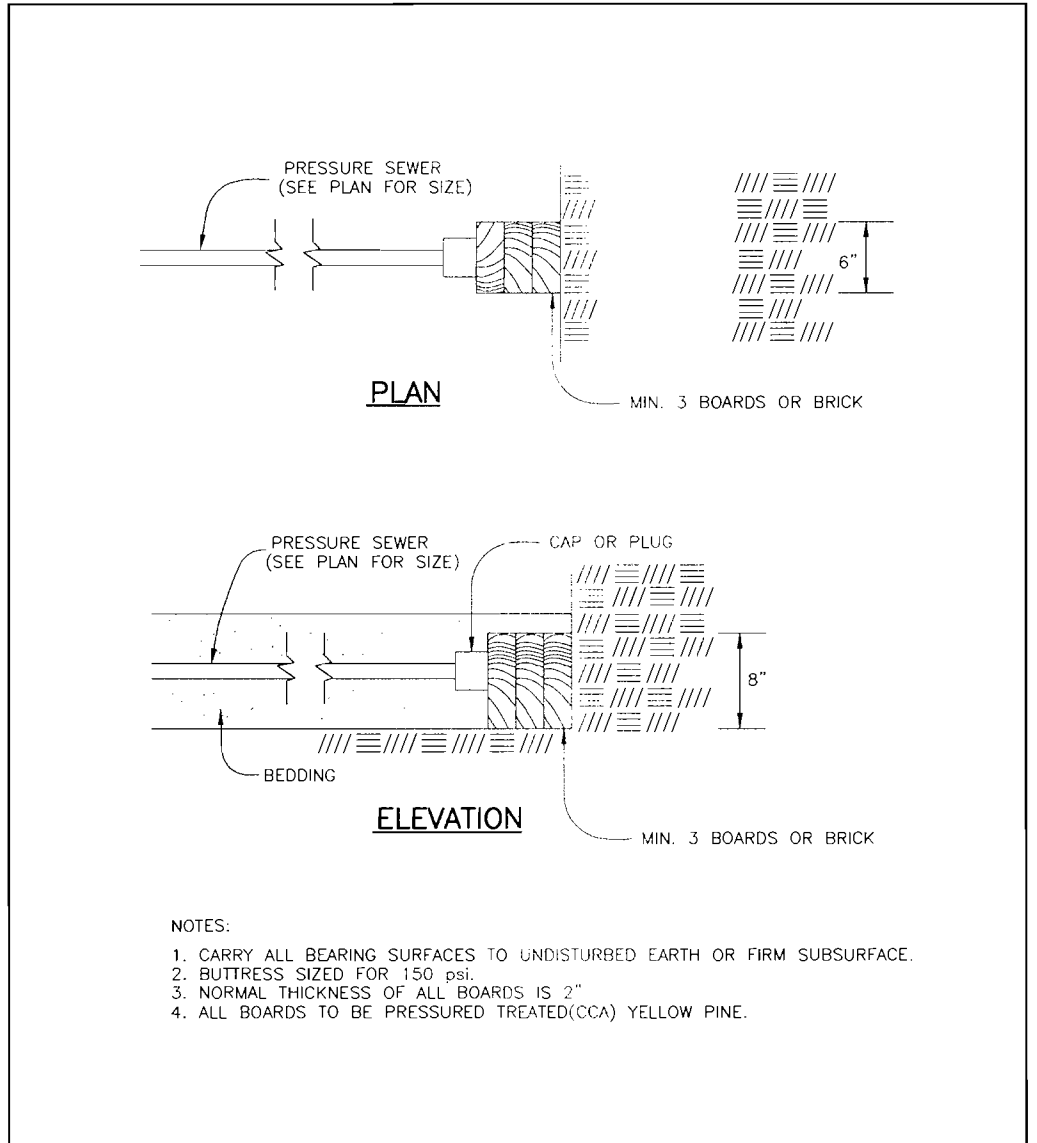
**SEWER PROFILE**  
 SCALE: HORIZONTAL - 1"=50'  
 VERTICAL - 1"=5'



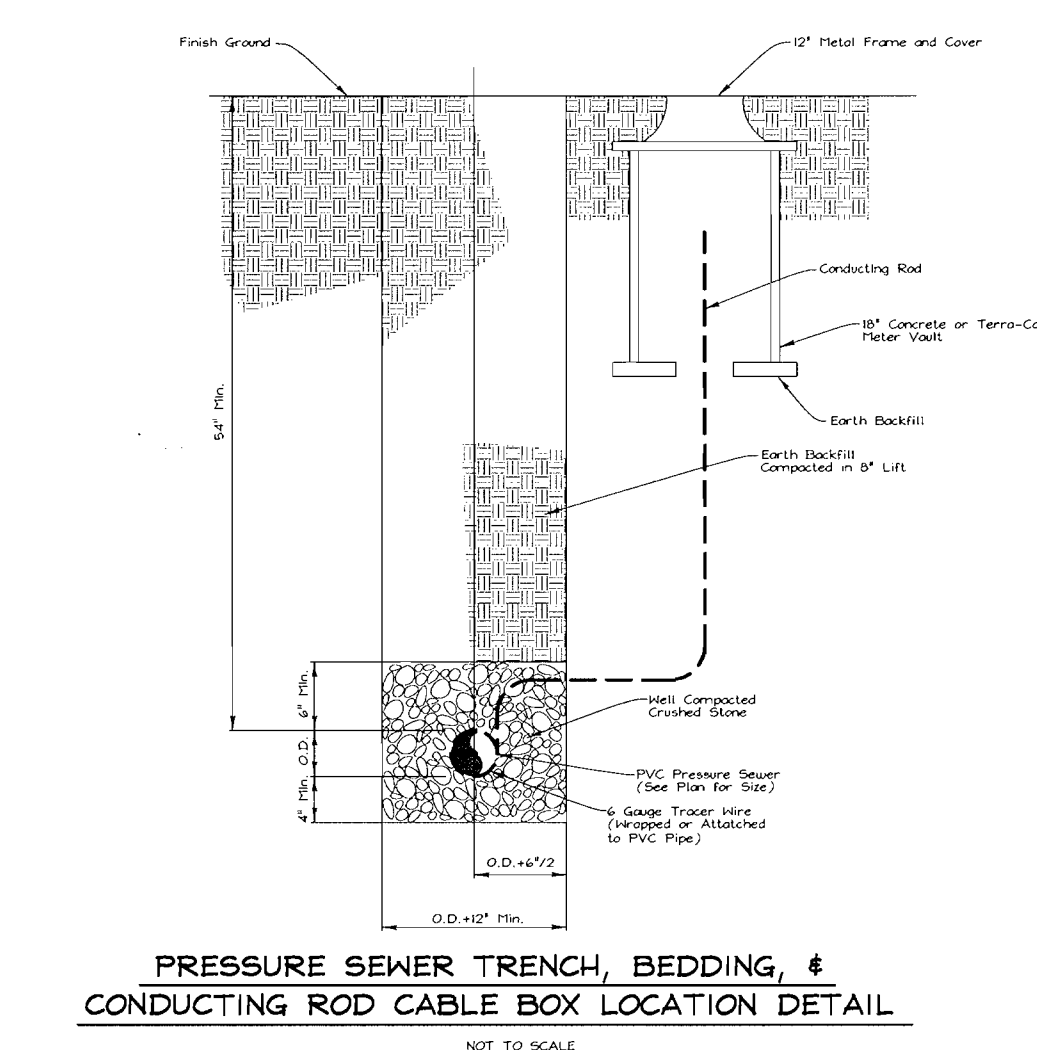
STANDARD DETAIL  
**PRESSURE SEWER, HOUSE CONNECTION TRENCH & BEDDING DETAIL**  
 PS 1.0



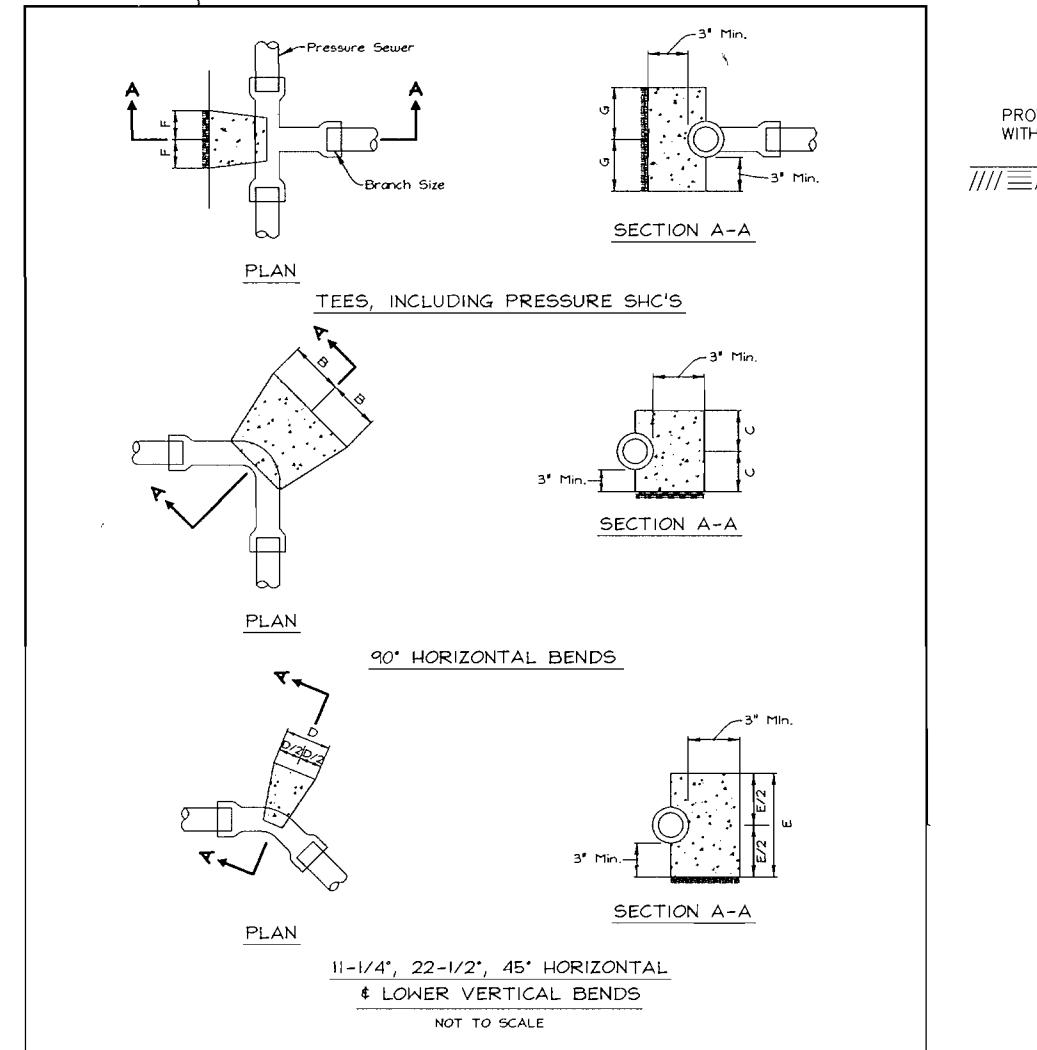
STANDARD DETAIL  
**FLUSHING CONNECTION**  
 PS 1.2



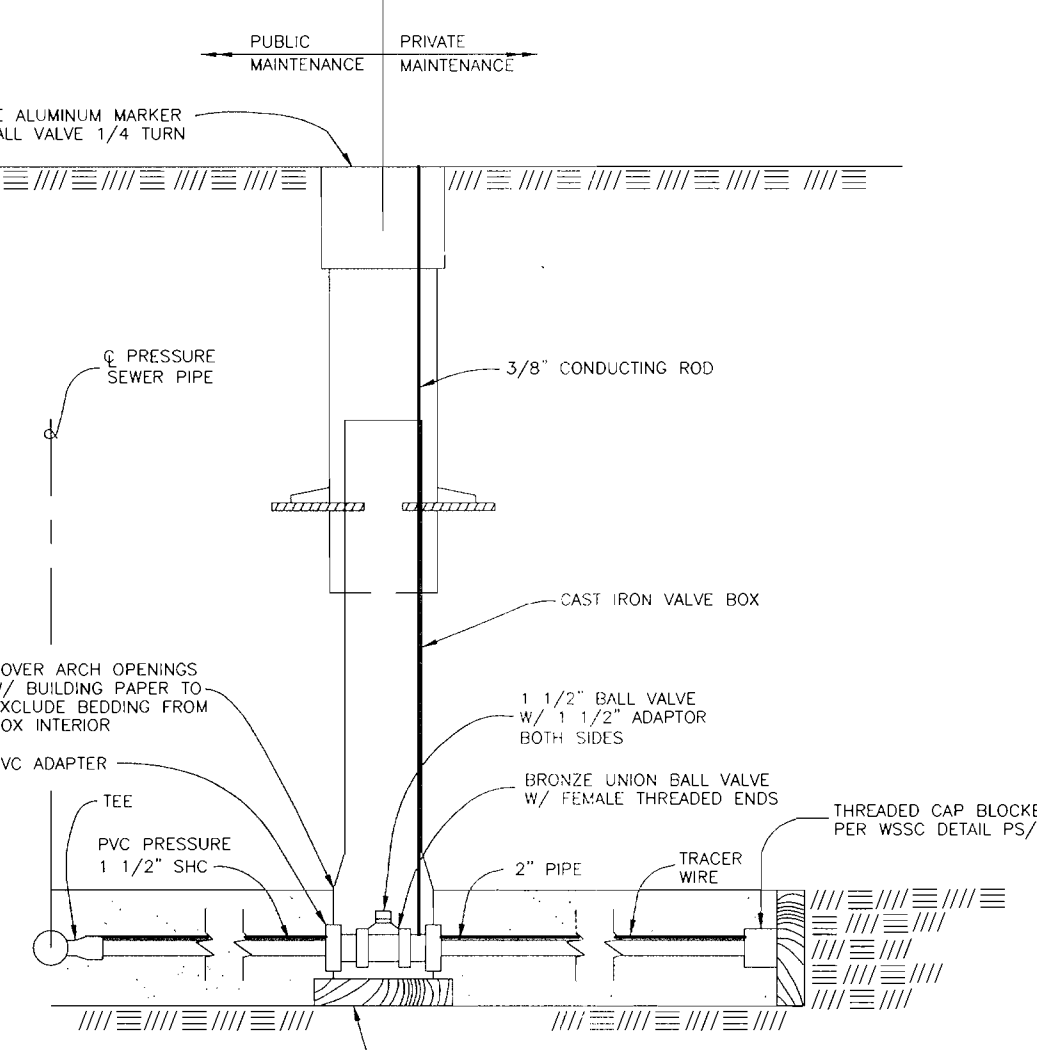
STANDARD DETAIL  
**PRESSURE SEWER & HOUSE CONNECTION BLOCKING DETAILS FOR CAPS & PLUGS**  
 PS 1.41



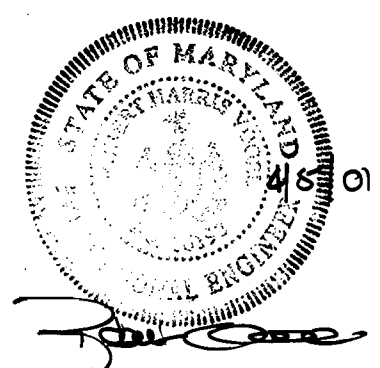
STANDARD DETAIL  
**PRESSURE SEWER TRENCH, BEDDING, & CONDUCTING ROD CABLE BOX LOCATION DETAIL**  
 NOT TO SCALE



STANDARD DETAIL  
**PRESSURE SEWER BLOCKING DETAILS**  
 PS 1.4



STANDARD DETAIL  
**BALL VALVE CONNECTION DETAIL**  
 NO SCALE



DEPARTMENT OF PUBLIC WORKS  
 HOWARD COUNTY, MARYLAND  
 CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING & ZONING  
 HOWARD COUNTY, MARYLAND  
 CHIEF, DEVELOPMENT ENGINEERING DIVISION

**FREDERICK WARD ASSOCIATES, INC.**  
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 7125 Riverwood Drive Columbia, Maryland 21046-2354  
 Phone: 410-290-9550 Fax: 410-720-6226  
 Bel Air, Maryland Columbia, Maryland Warrenton, Virginia

DES: PS	BY: NO.	REVISION	DATE
DRN: PS			
CHK: RHV			
DATE: April 2001			

**WATER AND SEWER PROFILES AND DETAILS**  
 600' SCALE MAP NO. 34 BLOCK NO. 6

**AUTO PARK EXPANSION**  
 HOLWECK SUBDIVISION  
 CONTRACT No. 34-3942-D  
 TAX MAP #34 BLOCK #6 5TH ELECTION DISTRICT  
 PARCELS K-1 & L-1 HOWARD COUNTY, MARYLAND

SCALE AS SHOWN  
 SHEET 3 OF 3