

LEVERING AVENUE SEWER EXTENSION HOWARD COUNTY, MARYLAND

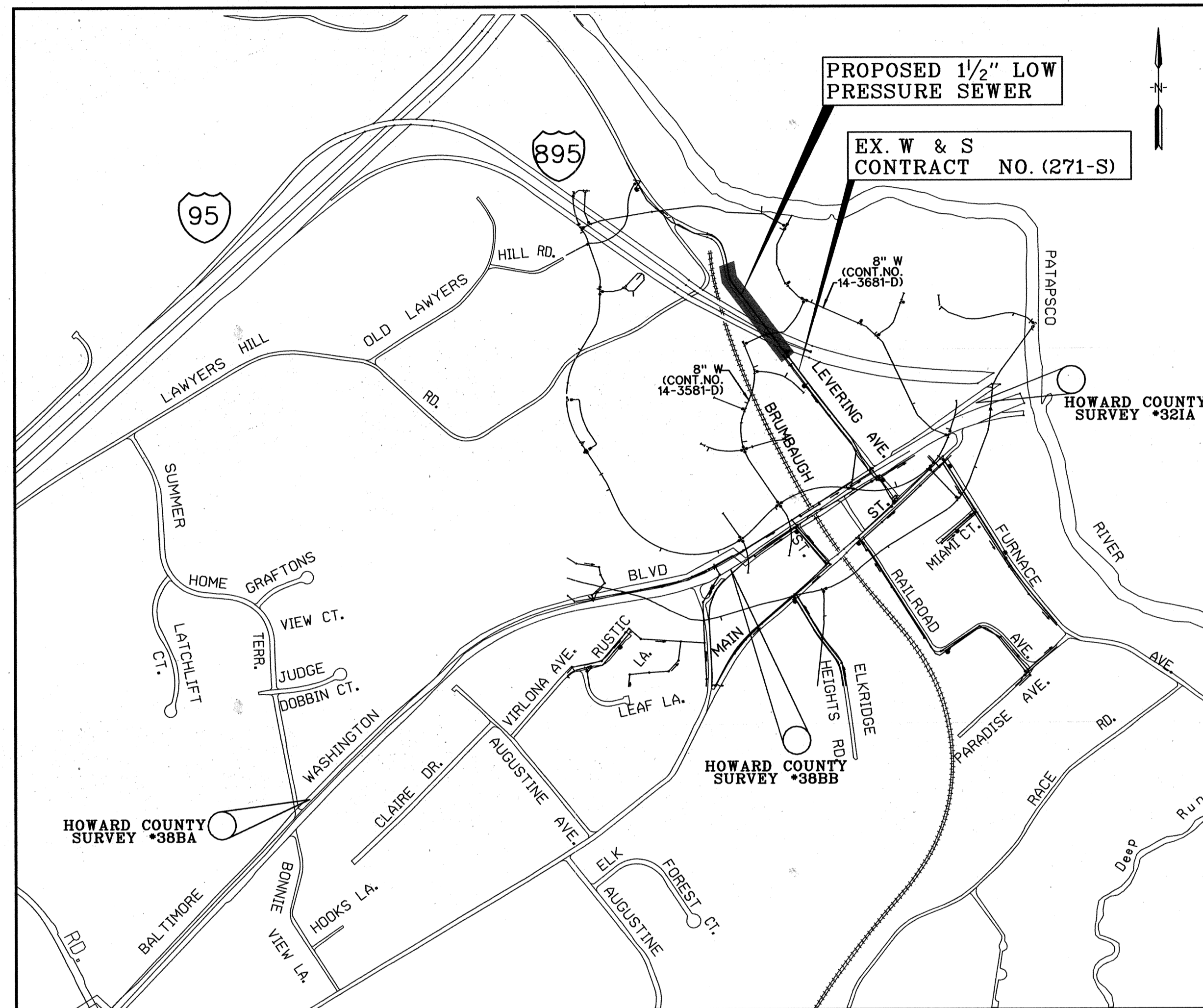
DEPARTMENT OF PUBLIC WORKS

CAPITAL PROJECT No. S-6252

CONTRACT No. 10-4273

GENERAL NOTES

- APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN FROM RECORD DATA. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING UTILITIES AND SERVICES & MAINTAIN UNINTERRUPTED SERVICE. 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, NAD 83/91.
- ALL VERTICAL CONTROLS ARE BASED ON U.S.G.S. DATUM NGVD29.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- 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 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 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 SITE.
- 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.
- CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THIS DRAWING:
 AT & T 1-800-252-1133
 BGE (CONTRACTOR SERVICES) 410-959-4620
 BGE - UNDERGROUND DAMAGE CONTROL 410-787-9068
 BUREAU OF UTILITIES (DPW) 410-313-4900
 COLONIAL PIPELINE CO. 410-795-1390
 MISS UTILITY 1-800-257-7777
 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.
- CONTRACTOR SHALL REMOVE TREES, STUMPS AND ROOTS ALONG 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 ANY OPEN CUT OF ANY COUNTY ROAD OR BORING/JACKING OPERATION IN COUNTY ROADS FOR LAYING SEWER MAINS OR HOUSE CONNECTIONS. THE APPROVAL OF THESE DRAWINGS WILL CONSTITUTE COMPLIANCE WITH DPW REQUIREMENTS PER SECTION 18.114(A) OF THE HOWARD COUNTY CODE.
- ALL SEWER MAINS SHALL BE PVC SDR 21 OR HDPE SDR 11 (IPS SIZING) UNLESS OTHERWISE NOTED.
- ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER UNLESS OTHERWISE NOTED.
- MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATERTIGHT FRAME AND COVER, STANDARD DETAIL G5.52. WHERE WATERTIGHT FRAME AND COVER ARE USED, SET TOP OF FRAME 1'-6" ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- HOUSE(S) WITH THE SYMBOL *C.N.S.* INDICATES THAT CELLAR CANNOT BE SERVED.
- CONSTRUCTION STAKEOUT SHALL BE PERFORMED BY CONTRACTOR.
- ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH THE STANDARD DETAILS UNLESS OTHERWISE PROVIDED FOR ON THE DRAWINGS. FITTINGS ARE TO MATCH IPS STANDARDS.
- CONTRACTOR TO VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO COMMENCING CONSTRUCTION.



LOCATION MAP

INDEX OF SHEETS	
SHEET No.	DESCRIPTION
1	TITLE SHEET
2	1/2" LOW PRESSURE SEWER
3	SEWER DETAIL
4	EROSION & SEDIMENT CONTROL, NOTES & DETAILS

QUANTITIES				
ITEM	UNIT	ESTIMATE	AS-BUILT	MATERIAL SUPPLIER
1/2" LOW PRESSURE SEWER	LF	511		HDPE
4' DIA TRANSITION MH	EA	1		BRICK
4' DIA MH RISER	VF	1		CONCRETE
1/4" SHC	LF	54		HDPE
4' DIA TERMINAL FLUSHING CONN.	EA	1		CONCRETE

NAME OF UTILITY CONTRACTOR: W.F. WILSON & SONS

CHECKBOX
AS-BUILT DATE: JULY, 2005
SURVEY AND DRAFTING DIVISION

TYPE OF BUILDING: RESIDENTIAL, COMMERCIAL
 NUMBER OF PARCELS: 2
 NUMBER OF SEWER HOUSE CONNECTIONS: 2
 DRAINAGE AREA: PATAPSCO
 SEWER CODE: 2021800
 WATER CODE: A05

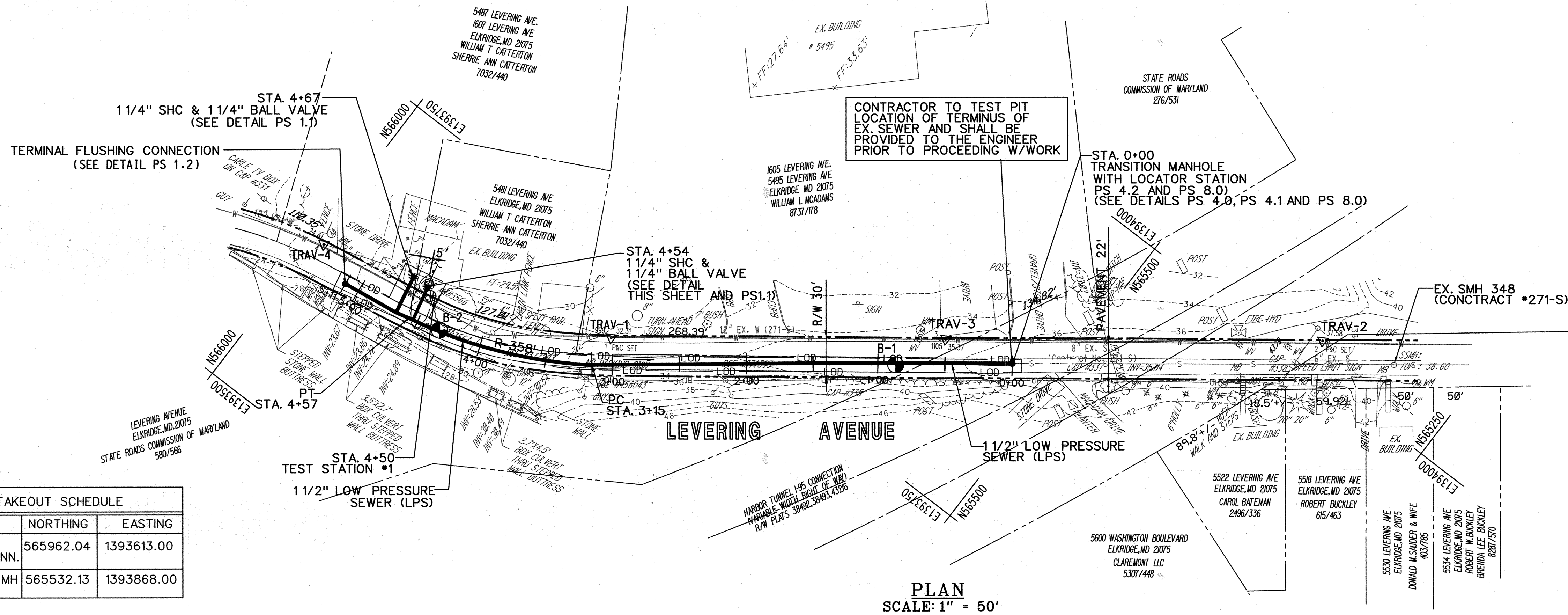
HOWARD COUNTY GEODETIC SURVEY CONTROL
 NO. 321A N 565065.463 E 1395212.248 ELEV. 27.696
 NO. 388A N 562553.278 E 1390967.927 ELEV. 166.944
 NO. 388B N 564007.646 E 1393649.975 ELEV. 64.412
 NAD83(91) (HORIZONTAL)
 NGVD29 (VERTICAL)

LEGEND	
	TRAVERSE POINT
	PROPOSED SAN. SEWER
	PROPOSED MANHOLE
	MINIMUM CELLAR ELEVATION
	LIMIT OF DISTURBANCE
	SILT FENCE
	TEST STATION
	BORING LOCATION
	EXISTING WATER MAIN
	EXISTING GAS MAIN
	EXISTING UNDER GROUND ELECTRIC
	EXISTING OVERHEAD SERVICE
	DECIDUOUS TREE
	CONIFEROUS TREE
	EXISTING SAN. SEWER
	EXISTING MANHOLE

AS BUILTS

PLOTTED: 01:55 PM on Tuesday, April 05, 2005
 BY: CHANG, C. (10/10/05) ENVIRONMENTAL ENGINEERING
 FILE: H:\2005\10-4273\10-4273.DWG

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND DIRECTOR OF PUBLIC WORKS DATE: 4-11-05		 CHIEF, BUREAU OF ENGINEERING DATE: 4-7-05		 CHIEF, UTILITY DESIGN DIVISION DATE: 4-6-05		 ENGINEERS PLANNERS SCIENTISTS CONSTRUCTION MANAGERS 10 NORTH PARK DRIVE HUNT VALLEY, MD 21030 PHONE: (410) 316-7800 FAX: (410) 316-7817 WWW.KCI.COM		 DES: GW DRN: CK CHK: TWW DATE: APR. 05		AS BUILT INFORMATION ADDED BY: [Signature] NO.: [Blank] REVISION: [Blank]		DATE: 7/05 600' SCALE MAP NO. 32 BLOCK NO. 22		LEVERING AVENUE SEWER EXTENSION CAPITAL PROJECT No. S-6252 CONTRACT No. 10-4273 ELECTION DISTRICT NO. 1 HOWARD COUNTY, MARYLAND		SCALE AS SHOWN SHEET 1 OF 3
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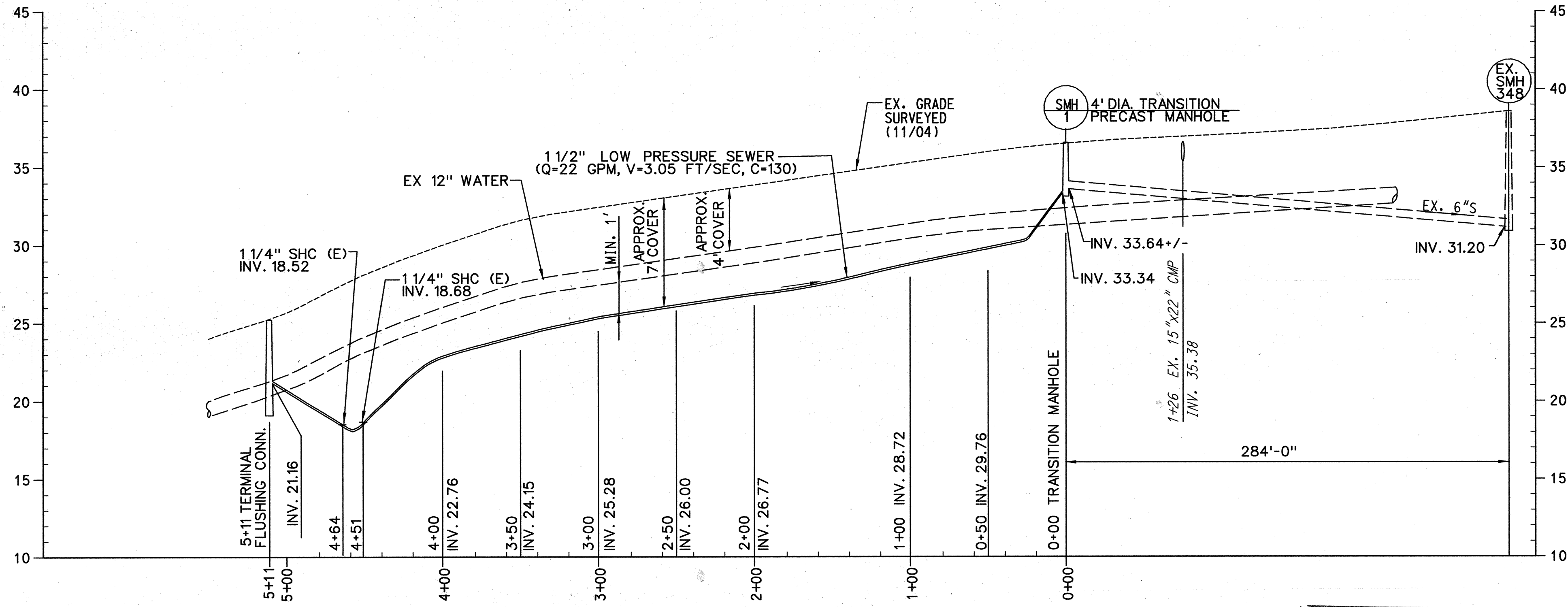
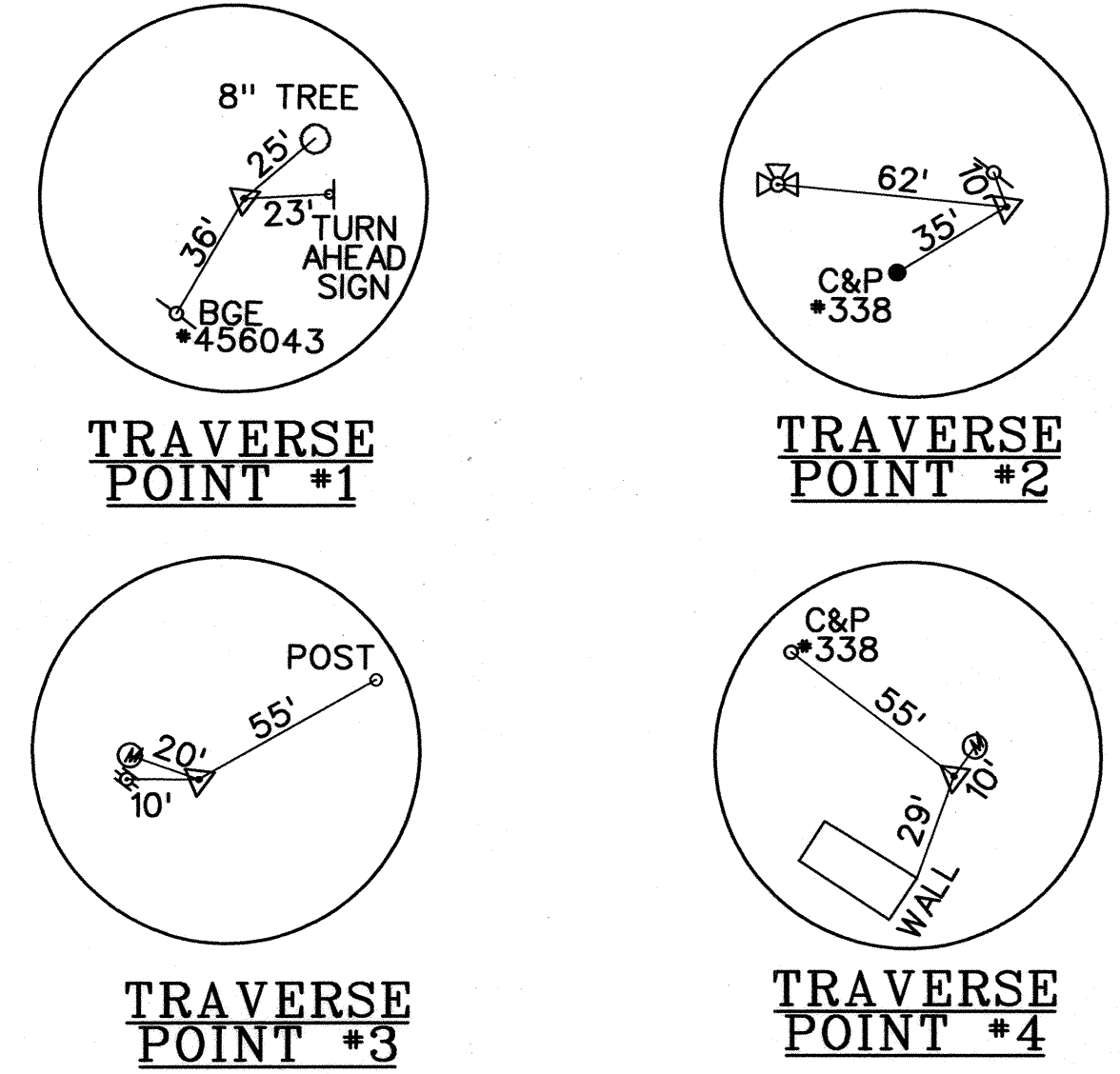


CONTRACTOR TO TEST PIT LOCATION OF TERMINUS OF EX. SEWER AND SHALL BE PROVIDED TO THE ENGINEER PRIOR TO PROCEEDING W/WORK

PLAN SCALE: 1" = 50'

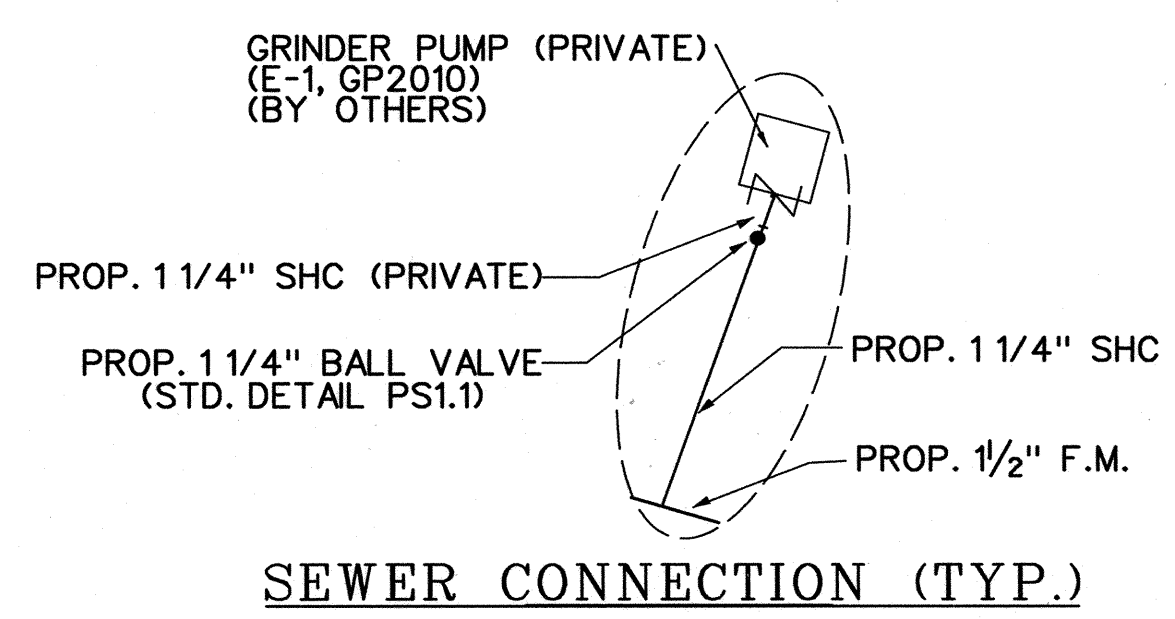
STAKEOUT SCHEDULE		
STATION	NORTHING	EASTING
TERMINAL FLUSHING CONN.	565962.04	1393613.00
TRANSITION MH	565532.13	1393868.00

TRAVERSE SCHEDULE			
LOCATION	NORTHING	EASTING	ELEVATION
TRV-1	565780.69	1393701.58	32.31
TRV-2	565359.17	1394021.88	37.58
TRV-3	565582.56	1393852.14	35.37
TRV-4	565992.66	1393626.65	24.41



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

AS BUILT



PLOT: 02/01 PM on Friday, July 22, 2005
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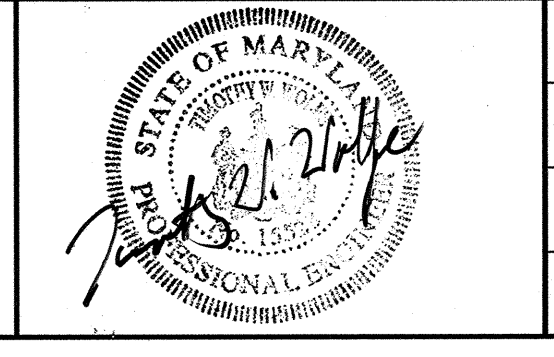
DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DIRECTOR OF PUBLIC WORKS _____ DATE _____
CHIEF, BUREAU OF UTILITIES _____ DATE _____

CHIEF, BUREAU OF ENGINEERING _____ DATE _____
CHIEF, UTILITY DESIGN DIVISION _____ DATE _____

KCI TECHNOLOGIES
ENGINEERS
PLANNERS
SCIENTISTS
CONSTRUCTION MANAGERS

10 NORTH PARK DRIVE
HUNT VALLEY, MD 21030
PHONE: (410) 316-7800
FAX: (410) 316-7817
www.kci.com



DES: GW				
DRN: CK				
CHK: TW				
DATE: JULY 05	BY: NO.	REVISION: AS BUILT INFORMATION ADDED	DATE: 7/05	

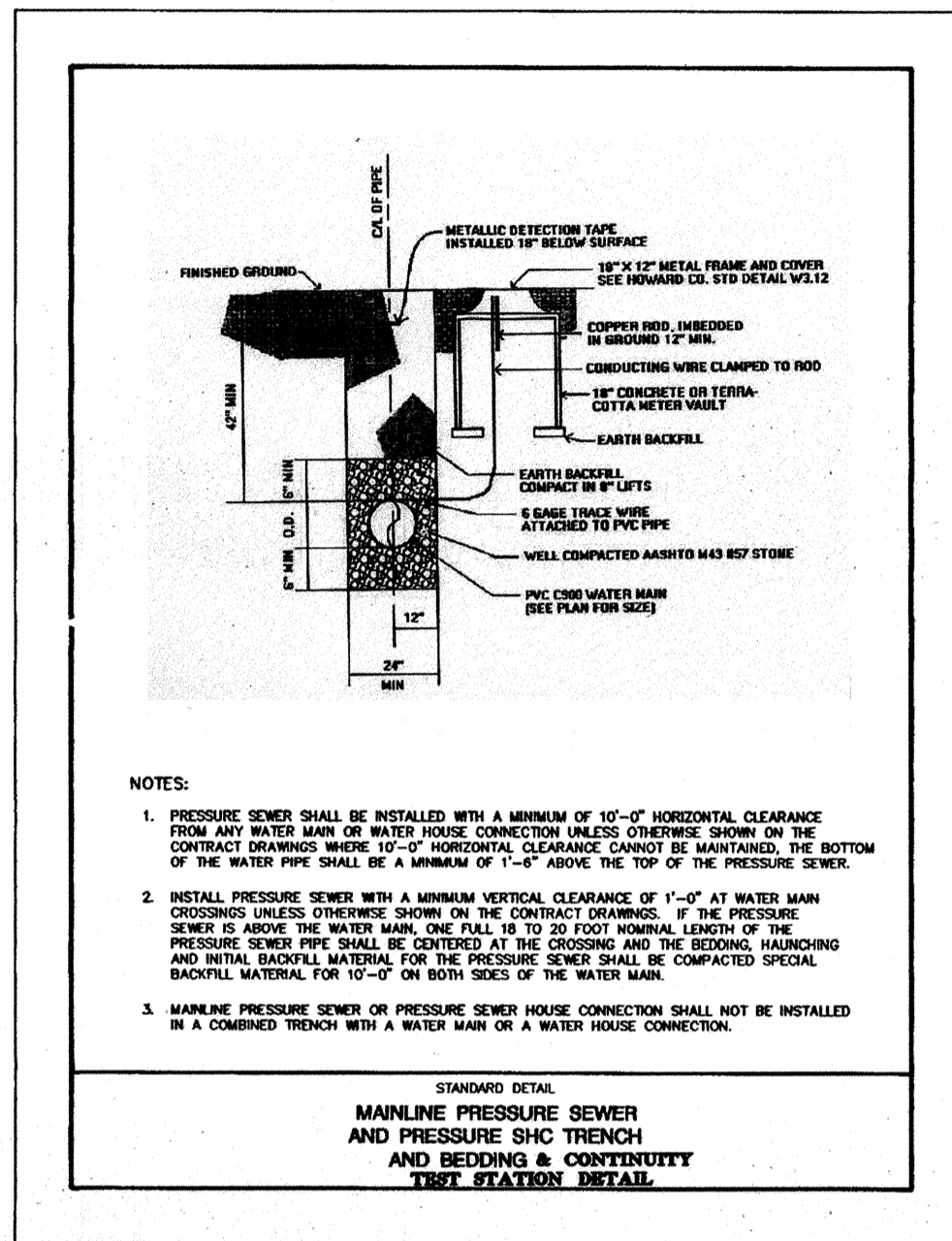
PLAN AND PROFILE

600' SCALE MAP NO. 32 BLOCK NO. 22

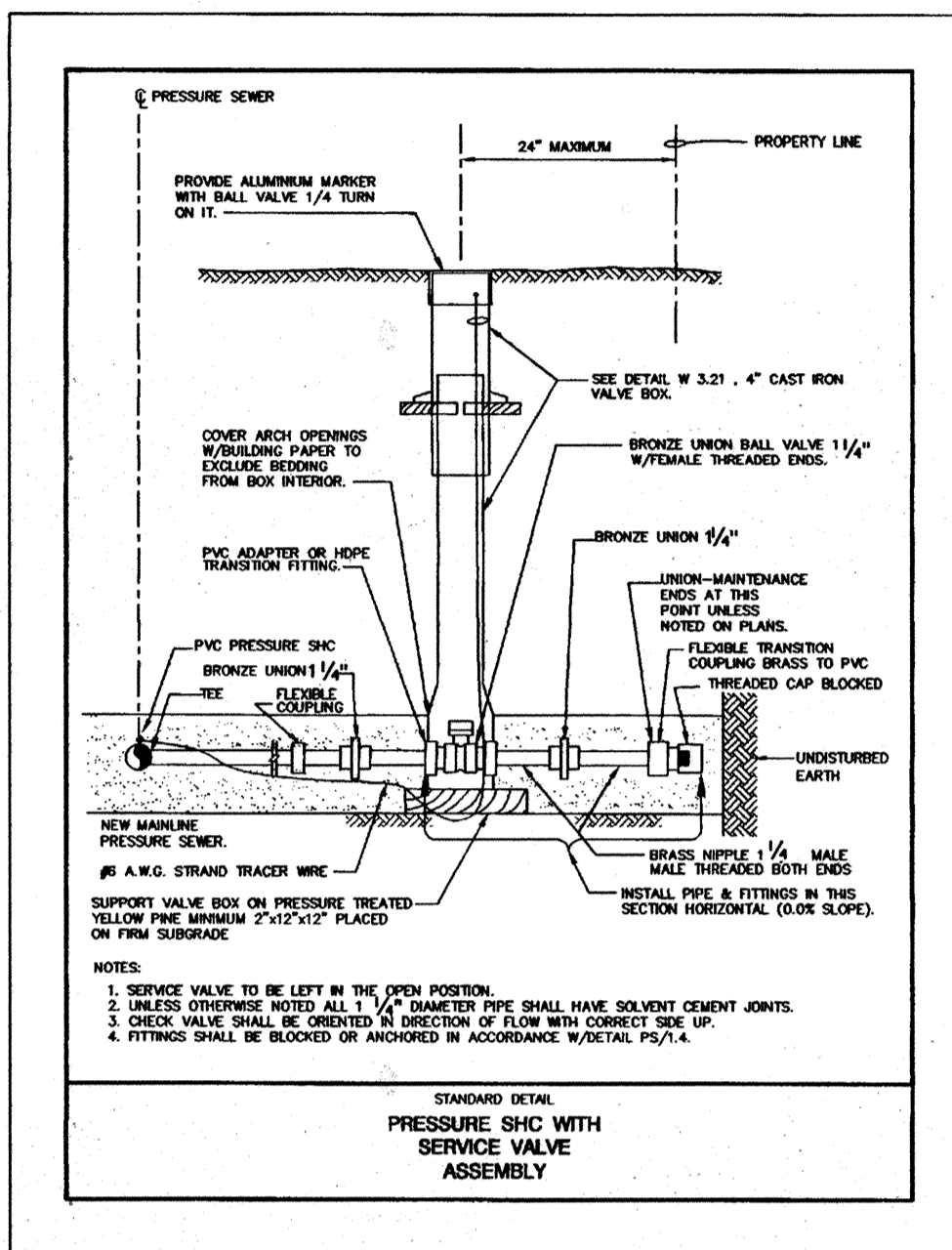
LEVERING AVENUE
SEWER EXTENSION
CAPITAL PROJECT No. S-6252
CONTRACT No. 10-4273

ELECTION DISTRICT NO. 1 HOWARD COUNTY, MARYLAND

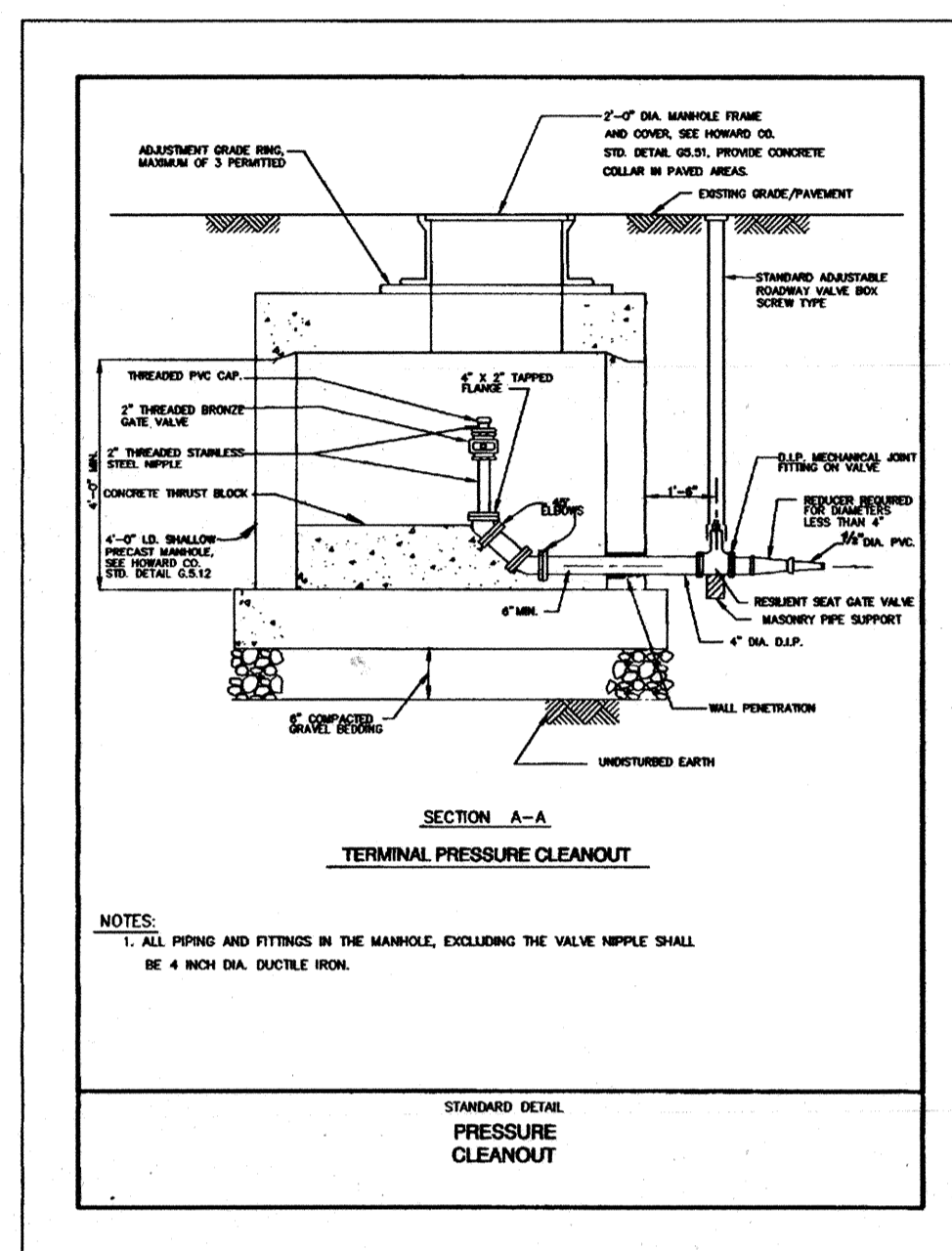
SCALE AS SHOWN
SHEET 2 OF 3



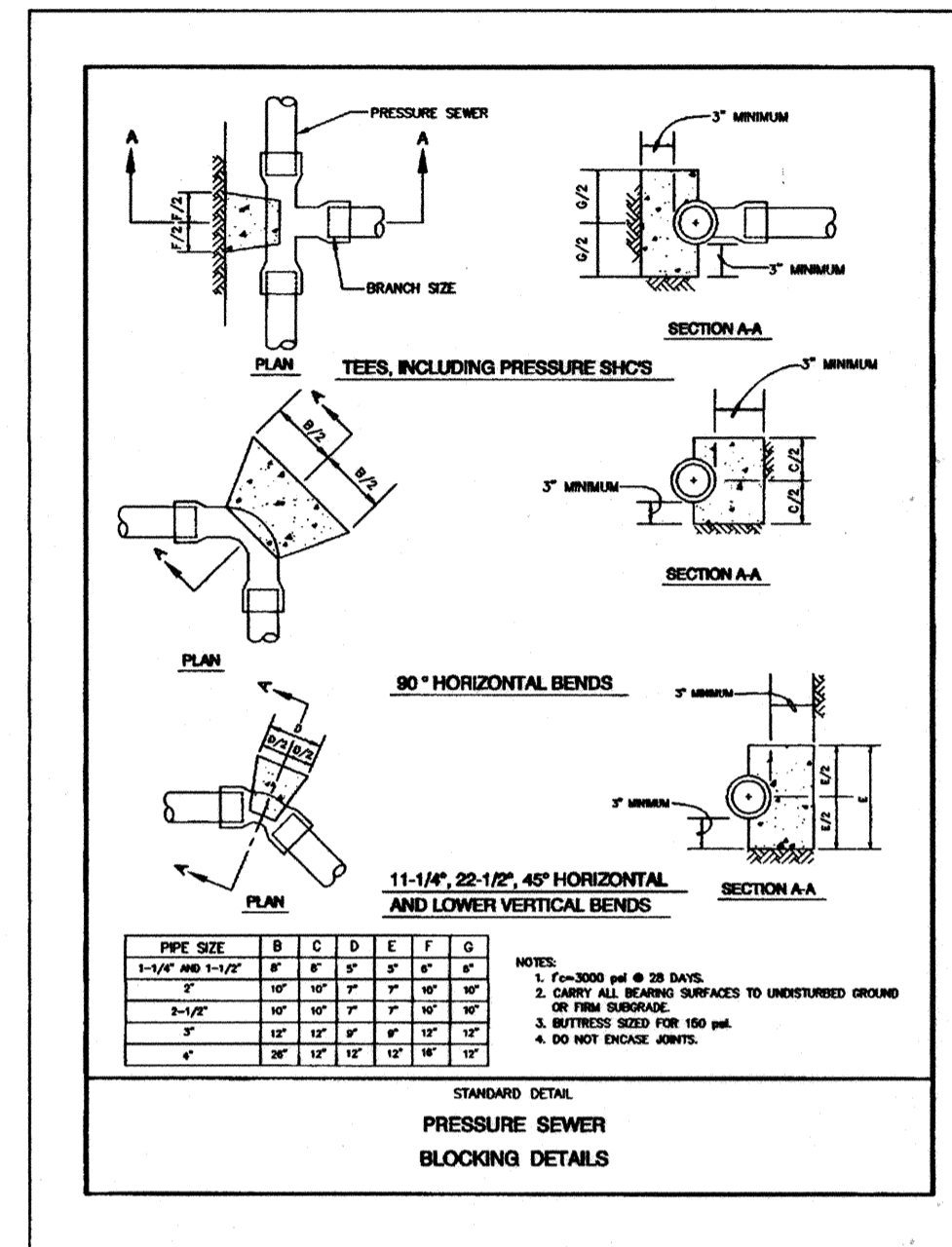
DETAIL PS 1.0



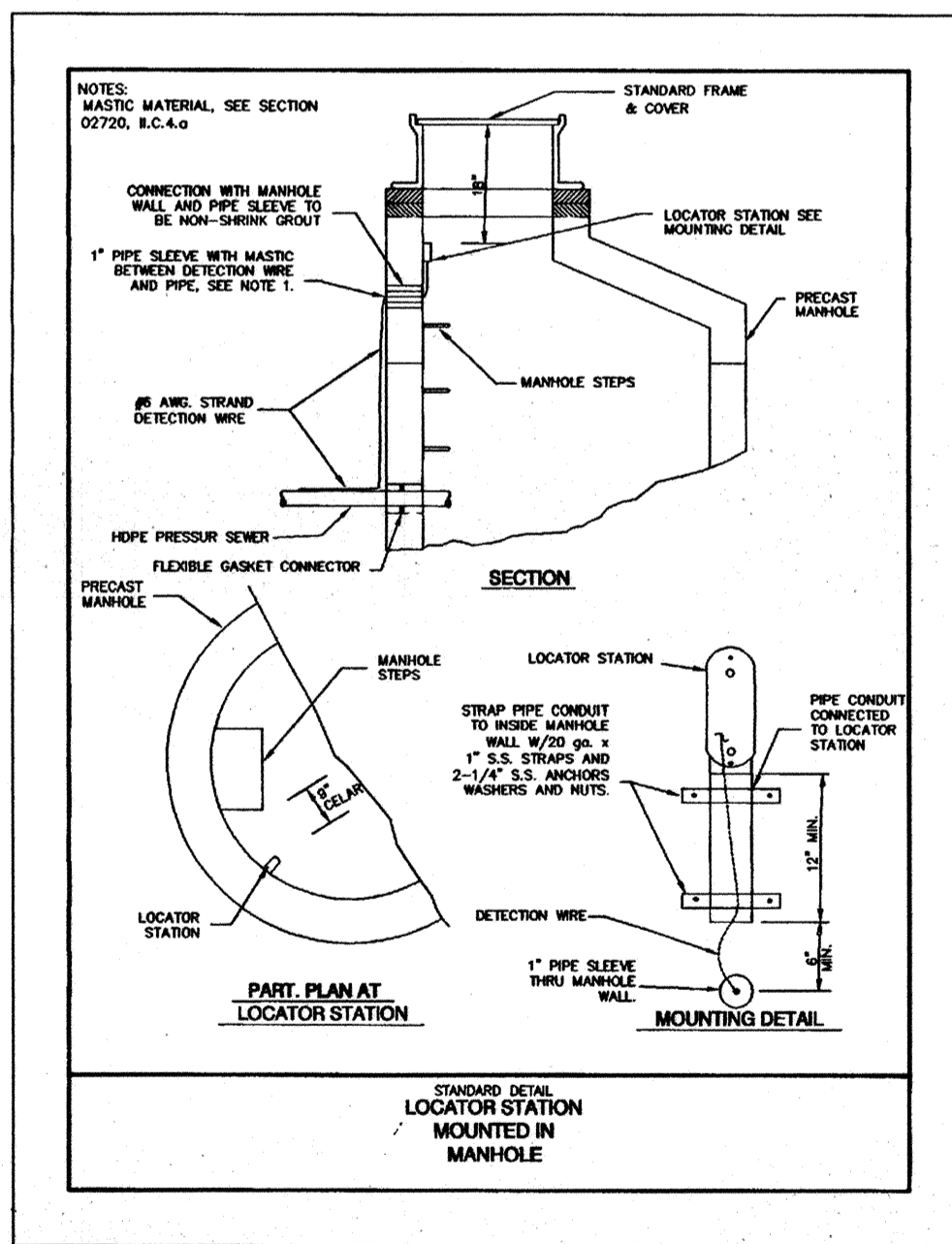
DETAIL PS 1.1



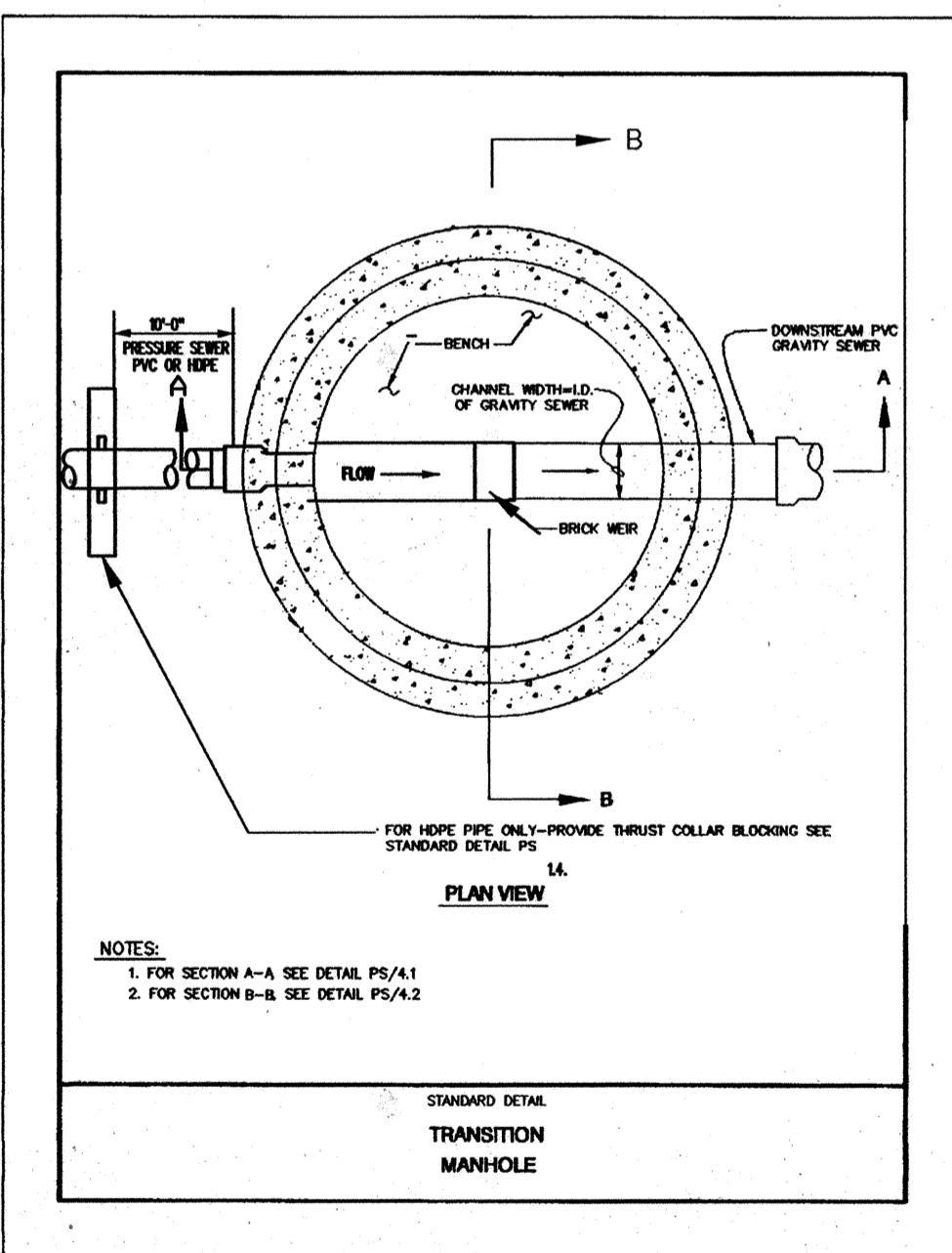
DETAIL PS 1.2



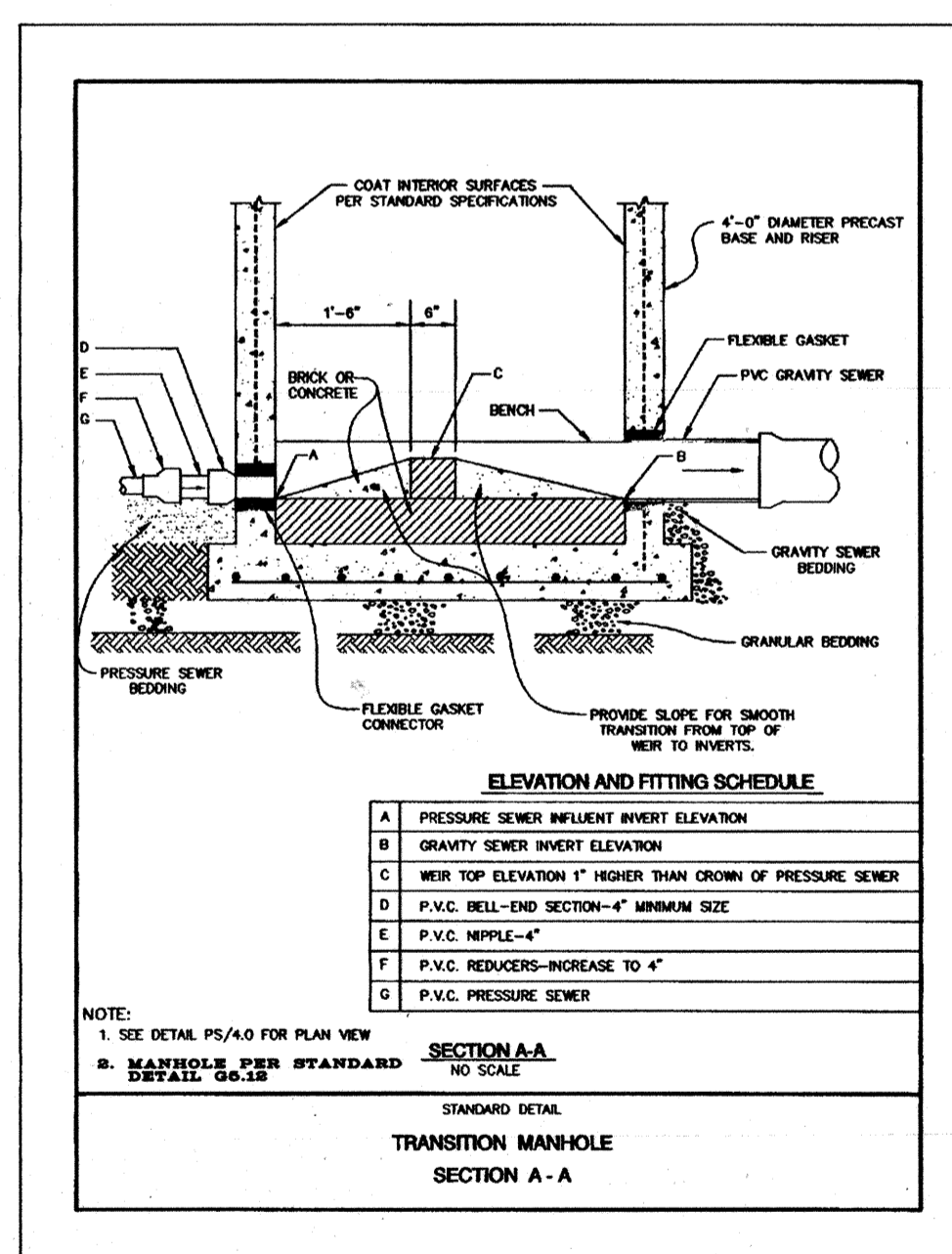
DETAIL PS 1.4



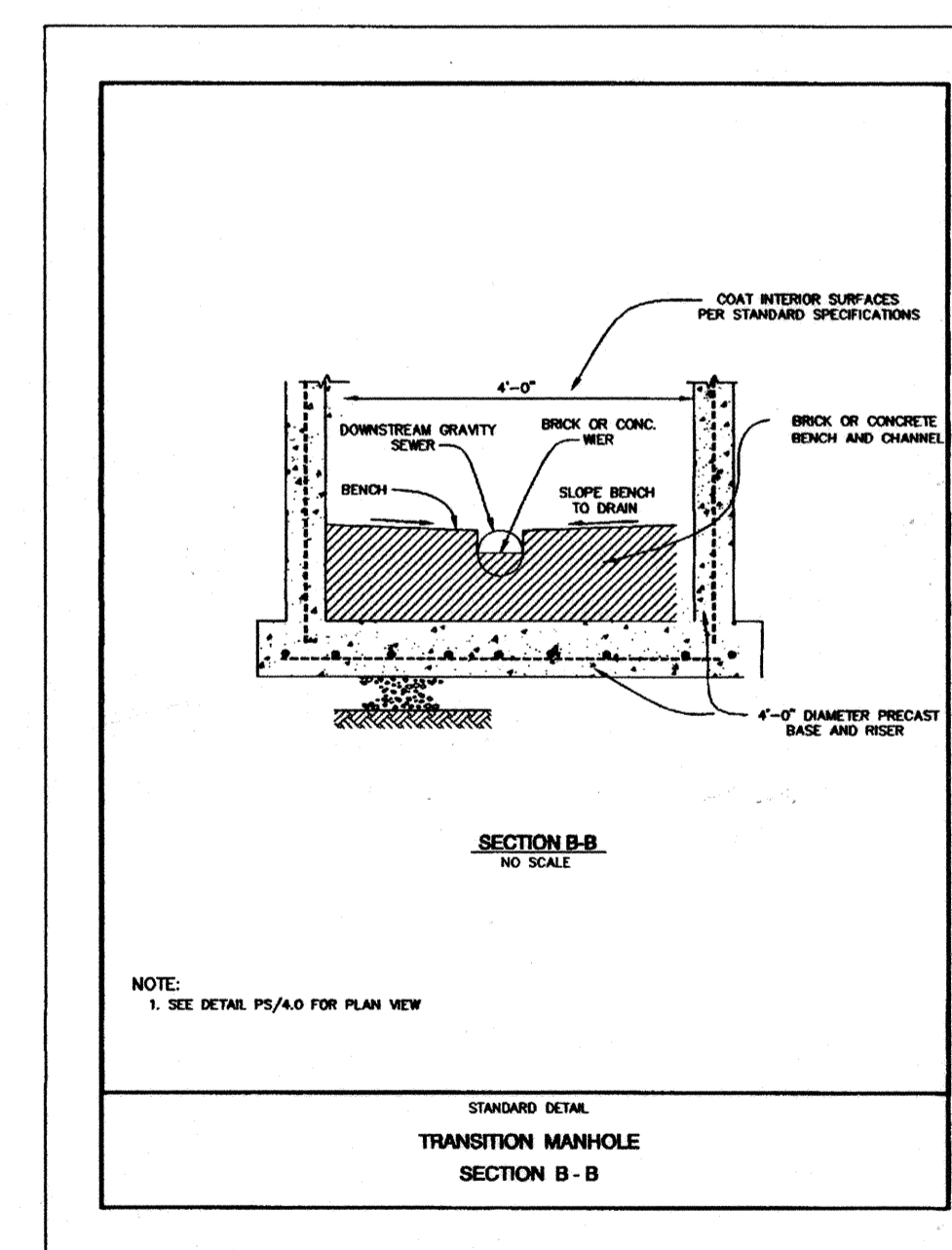
DETAIL PS 8.0



DETAIL PS 4.0



DETAIL PS 4.1



DETAIL PS 4.2

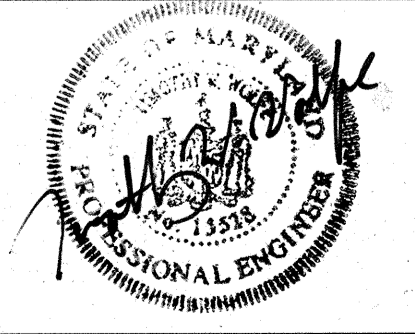
AS BUILT

- NOTES:**
- ANY SPLICES IN THE LOCATING WIRE SHALL BE UNDERGROUND SPLICES.
 - USE STANDARD HOWARD COUNTY CAST IRON CURB BOX FOR PRESSURE SHC SERVICE VALVE.

PLOTTED: 02:02 PM on Tuesday, April 05, 2005
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DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 DATE: 4/11/05
 DATE: 4-6-05
 CHIEF, BUREAU OF UTILITIES
 CHIEF, UTILITY DESIGN DIVISION

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DETAILS
 600' SCALE MAP NO. 32 BLOCK NO. 22

LEVERING AVENUE SEWER EXTENSION
 CAPITAL PROJECT No. S-6252
 CONTRACT No. 10-4273
 ELECTION DISTRICT NO. 1 HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
 SHEET 3 OF 3