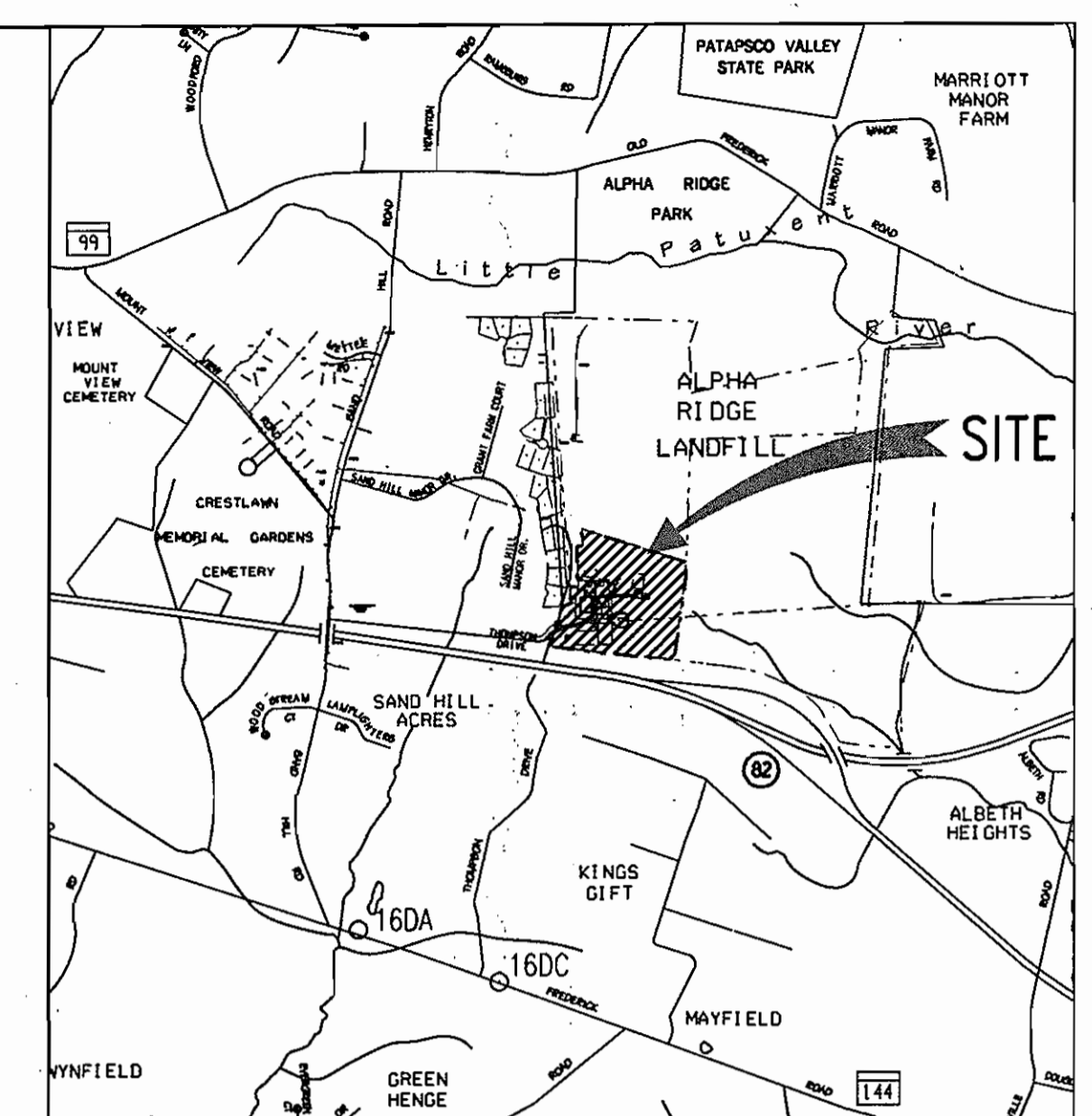
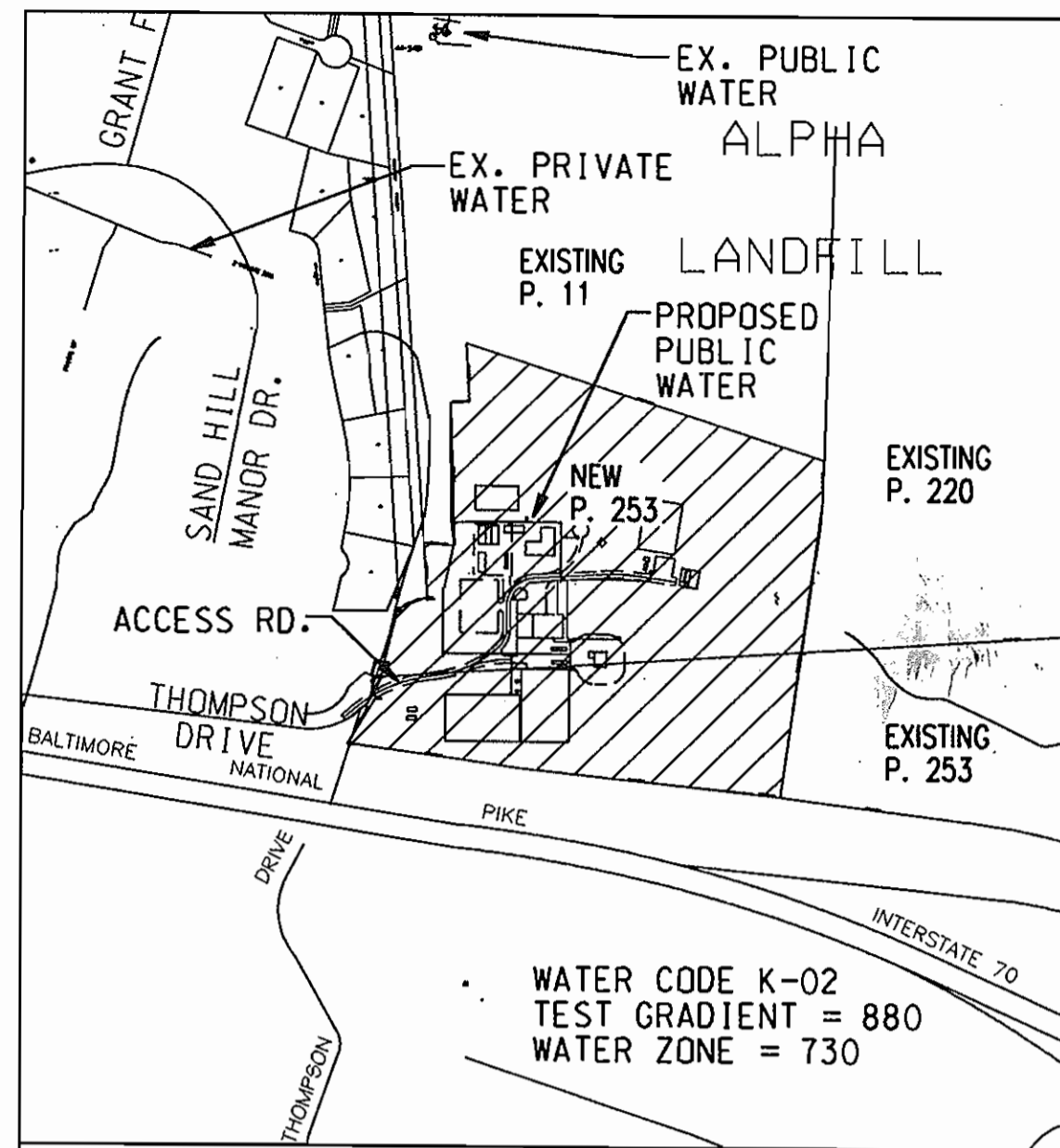


# PUBLIC SAFETY TRAINING CENTER THIRD ELECTION DISTRICT HOWARD COUNTY, MARYLAND



ITEM	QUANTITY	TYPE	MANUFACTURER/SUPPLIER
12" WATER	40 L.F.	DUCTILE IRON	
8" WATER	2360 L.F.	DUCTILE IRON	
6" WATER	260 L.F.	DUCTILE IRON	
8" - 90° BEND	1 EA.	DUCTILE IRON	
8" - 45° BEND	1 EA.	DUCTILE IRON	
8" - 22.5° BEND	5 EA.	DUCTILE IRON	
8" - 11.25° BEND	2 EA.	DUCTILE IRON	
8" - VALVE AND BOX	10 EA.	DUCTILE IRON	
8" X 8" TEE	5 EA.	DUCTILE IRON	
8" END CAP	1 EA.	DUCTILE IRON	
8" X 6" TEE	8 EA.	DUCTILE IRON	
6" - VALVE AND BOX	8 EA.	DUCTILE IRON	
6" - 11.25° BEND	4 EA.	DUCTILE IRON	
FIRE HYDRANT	7 EA.		
12" VALVE	1 EA.	DUCTILE IRON	
12" X 8" REDUCER	1 EA.	DUCTILE IRON	
3/4" CORPORATION COCK ASSEMBLY	1 EA.	COPPER	
3/4" WATER METER AND BOX	1 EA.	CAST IRON	

SCALE: 1" = 2000'

MONUMENT	NORTHING	EASTING	ELEVATION	HORIZ. DATUM	VERT. DATUM
16DA	593712.91	1332332.0	469.674	NAD83(91)	NAGVD29
16DC	593095.51	1333961.17	529.506	NAD83(91)	NAGVD29

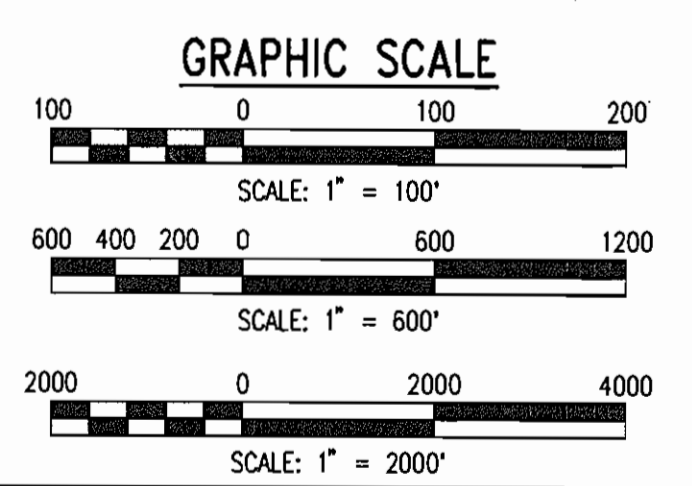
VICINITY MAP  
SCALE: 1" = 600'

LIST OF DRAWINGS

SHEET NO.	SHEET TITLE
1	COVER SHEET
2	LEGEND AND ABBREVIATIONS
3	UTILITY PLAN
4	UTILITY PLAN
5	PROFILES - WATER MAINS
6	PROFILES - WATER MAINS

TYPE OF BUILDING	TEMPORARY TRAINING FACILITY
NO. OF PARCELS	1
NO. OF WATER HOUSE CONNECTIONS	2
NO. OF SEWER HOUSE CONNECTIONS	N/A (PRIVATE)
DRAINAGE AREA	LITTLE PATUXENT
TREATMENT PLANT	N/A

*Alan G. Bi*  
Revision 3 only



SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE SPECIFICATIONS AND ROAD CONSTRUCTION PLAN SDR-03-36.

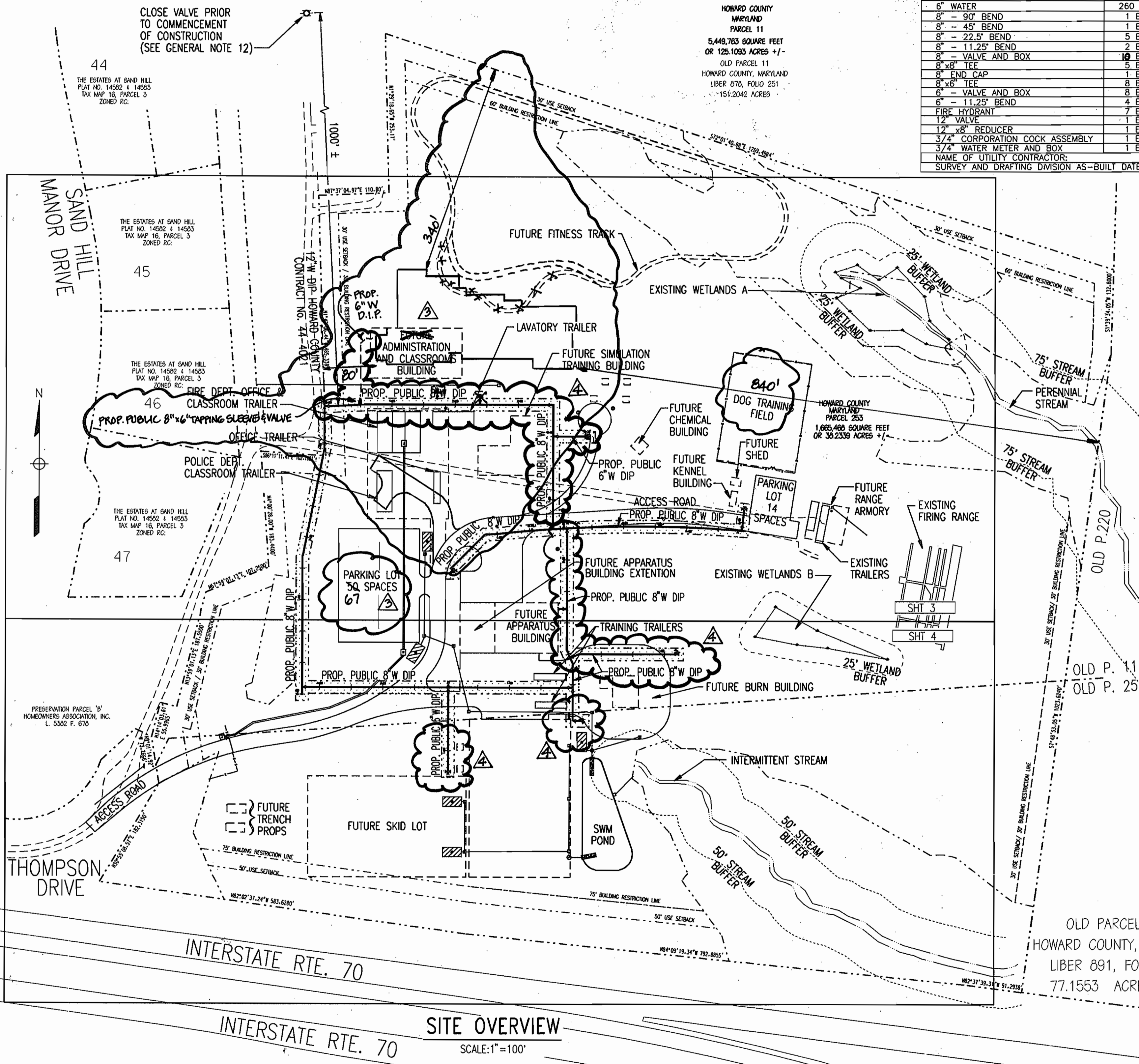
THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.

*[Signature]* 1/16/03  
DATE

REVIEWED FOR HOWARD S.C.D. AND MEETS THE TECHNICAL REQUIREMENTS.

*[Signature]* 1/16/03  
DATE

USDA Natural Resources Conservation Service



HOWARD COUNTY MARYLAND  
PARCEL 220  
7,027,264 SQUARE FEET  
OR 179,603 ACRES +/-  
OLD PARCEL 220  
HOWARD COUNTY, MARYLAND  
LIBER 091, FOLIO 314  
114,670 ACRES +/-

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.
- All horizontal controls are based on Maryland State Coordinates, NAD 83/91.
- All vertical controls are based on NGVD 29.
- 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 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 (Contractor Services)	410-850-4620
BGE (Underground Damage Control)	410-787-9068
Bureau of Utilities	410-313-4900
Colonial Pipeline Co.	410-795-1390
Miss Utility	1-800-257-7777
State Highway Administration	410-531-5533
Verizon	1-800-443-0033/410-224-9210
- 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 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 DPW requirements per Section 18.11410 of the Howard County Code.
- As of Oct. 21, 2002, drawings for the existing 12" DIP (Howard County Contract No. 44-4021) are not available. The valve shown on these plans is approximate. Valve is located near to existing water tower close to a fire hydrant.
- Water lines labeled as optional may be constructed during a separate construction phase of the County's discretion.

PART II WATER

- All water mains shall be D.I.P. Class 52 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.

OLD PARCEL 253  
HOWARD COUNTY, MARYLAND  
LIBER 891, FOLIO 314  
77.1553 ACRES +/-

WATER CODE:		SEWER CODE:		ADDRESS CHART	
K-02	RC	PRIVATE-HOLDING TANK		BUILDING	STREET ADDRESS
				2327 THOMPSON DRIVE	
PROJECT NAME:		SECTION/AREA		PARCEL	
PUBLIC SAFETY EDUCATION CENTER		N/A		253	
PLAT	ZONE	TAX MAP	GRID	ELEC. DIST.	CENSUS TRACK
15716	RC	16	2	3rd	6030

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING  
HOWARD COUNTY, MARYLAND

PREPARED BY:  
**WR&A**  
Whitman, Reardon and Associates, LLP.  
801 South Caroline Street  
Baltimore, Maryland, 21231  
410-235-3450

DES: C.D.  
DRN: C.K.  
CHK: A.O.  
DATE: 12/16/2002

NO.	REVISION	DATE
1	REVISED THE ADMIN./CLASSROOM BLDG. W/ WALKWAY AND PARKING AREA W/ 3 HANDICAPPED SPACES	7/19/05
2	ADD'D PROP. PUBLIC 6" W. D.I.P. CONNECTION EAST OF ADMIN./CLASSROOM BUILDING	11/16/05
3	RAISED (W-1), (W-2), (W-7) & (W-10); LOWERED PART OF (W-1); EXTENDED (W-7)	10/23/06
4	AS-BUILT DATA	10/24/06

600' SCALE MAP NO. 16 BLOCK NO. 2 / 8

COVER SHEET  
PUBLIC SAFETY TRAINING CENTER  
AT ALPHA RIDGE LANDFILL  
CAPITAL PROJECT NO. C-0182  
HOWARD COUNTY, MARYLAND  
WATER CONTRACT NUMBER 44-4072

**LEGEND**

EXISTING	PROPOSED	DESCRIPTION
---260---	---260---	MAJOR CONTOUR
---258---	---258---	MINOR CONTOUR
12"SD	12"SD	STORM DRAIN
8"W	8"W	WATER
6"SAN	6"SAN	SANITARY SEWER
UE	UE	UNDERGROUND ELECTRIC
		VALVE
		FIRE HYDRANT
		MANHOLE/INLET
		STREET LIGHT
		FENCE
		TREES/WOODSLINE
		STREAM
		WETLAND
		STORMWATER MANAGEMENT
		BORING LOCATION
		PATCH TO MATCH EXISTING
		ABANDONED EXISTING UTILITY/STRUCTURE
		EXISTING UTILITY/STRUCTURE TO BE REMOVED
		STAKEOUT POINTS
		ELECTRICAL HANDBOX
		CONTROL PANEL
		ELECTRICAL NOTES
		CONNECT TO EXISTING
		WELL CAP

**ABBREVIATIONS**

AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS
ASTM.	ASSOCIATION FOR STANDARD TESTING METHODS
APPROX.	APPROXIMATELY
BLDG.	BUILDING
BIT.	BITUMINOUS
B.M.	BENCH MARK
CFS.	CUBIC FEET PER SECOND
CO.	CLEANOUT
COMP.	COMPACTED
CONN.	CONNECTION
CMP.	CORRUGATED METAL PIPE
DIA., DIAM.	DIAMETER
DWG., DRWG.	DRAWING
EL., ELEV.	ELEVATION
ELECT., ELEC.	ELECTRICAL
ESAN.	EXISTING SANITARY
UE.	UNDERGROUND ELECTRIC
EUGT&E.	EXISTING UNDERGROUND TELEPHONE & ELECTRIC
EXST., EX.	EXISTING
FM	FORCE MAIN
FPS.	FEET PER SECOND
INV.	INVERT
IP.	INLET PROTECTION
MECH.	MECHANICAL
MFR.	MANUFACTURER
M.H.	MANHOLE
MIN.	MINIMUM
MW	MONITORING WELL
OHE.	OVERHEAD ELECTRIC
OHT.	OVERHEAD TELEPHONE
P.I.	POINT OF INTERSECTION, POST INDICATOR
P.C.	POINT OF CURVATURE
P.T.	POINT OF TANGENCY
PVC	POINT OF VERTICAL CURVE
PROP.	PROPOSED
SDR.	STANDARD DIMENSION RATIO
S	SOUTH, SLOPE, SANITARY
SAN	SANITARY
TEL	TELEPHONE
W-4	WATER PROFILE IDENTIFICATION
T/G	TOP OF GRATE
T/MH	TOP OF MANHOLE
T/W	TOP OF WELL

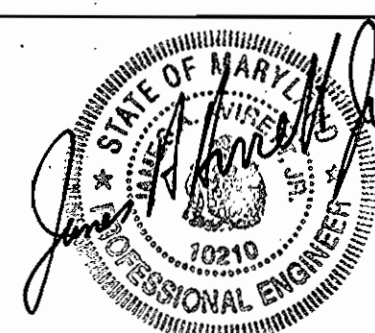
DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING  
HOWARD COUNTY, MARYLAND

PREPARED BY :



Whitman, Reardon and Associates, LLP.  
801 South Caroline Street,  
Baltimore, Maryland, 21231  
410-235-3450



DES: C.D.

DRN: C.K.

CHK: A.D.

DATE: 12/16/2002

NO.	REVISION	DATE
1	ASBUILT DATA	10/04/04

**LEGEND AND ABBREVIATIONS**

PUBLIC SAFETY TRAINING CENTER  
AT ALPHA RIDGE LANDFILL  
CAPITAL PROJECT NO. C-0182  
HOWARD COUNTY, MARYLAND  
WATER CONTRACT NUMBER 44-4072

SCALE  
AS  
SHOWN

SHEET  
2 OF 6

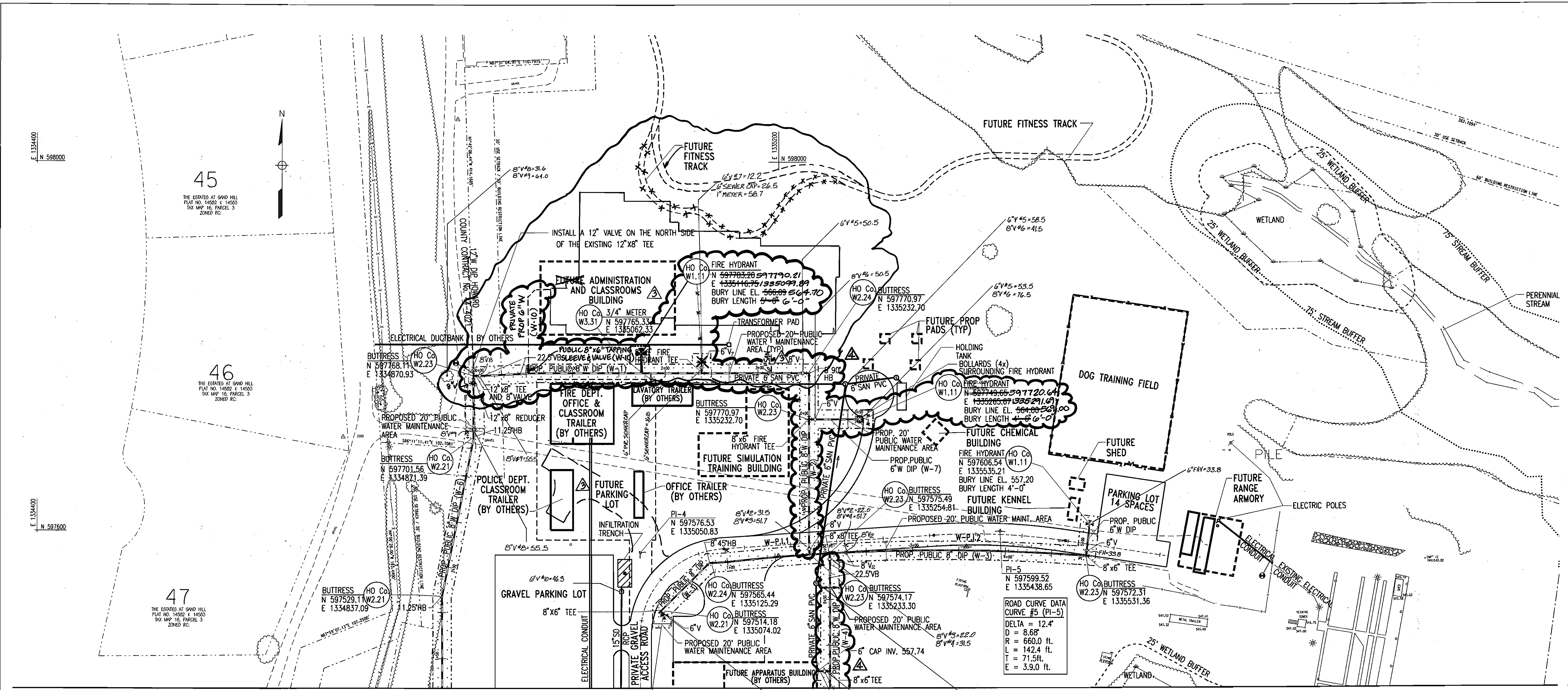
*R. B. ...*  
CHIEF, BUREAU OF UTILITIES  
DATE: 1-15-03

*M. ...*  
CHIEF, DEVELOPMENT ENGINEERING DIVISION  
DATE: 1/20/03

600' SCALE MAP NO. 16 BLOCK NO. 2 / 8

SDP-03-36

M:\13490\WRPst1c02.dgn  
Fri Jun 10 13:35:07 2005



**WATER CURVE DATA**

8" WATER MAIN W-3 CURVE DATA

CURVE NO.	NORTHING	EASTING	R	T	E	L	D	Δ
1	597572.63	1335199.80	3537.7'	55.08°	0.85'	110.12'	1.62'	1.8'
2	597582.57	1335402.23	4085.5'	129.54°	4.10'	258.74'	1.40'	3.6'

**ROAD CURVE DATA**

CURVE #4 (PI-4)

DELTA = 83.1°  
 D = 60.95'  
 R = 94.0 ft.  
 L = 136.3 ft.  
 T = 90.4 ft.  
 E = 36.4 ft.

MATCH LINE SEE SHEET 4

HO Co. BUTRESS W1.11 N 597503.90 E 1335074.03 BURY LINE EL. 566.54 BURY LENGTH 4'-0"

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

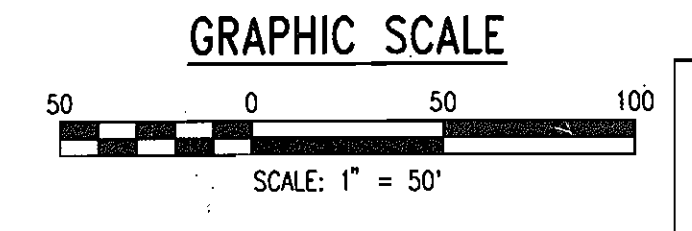
**ROAD CURVE DATA**

CURVE #5 (PI-5)

DELTA = 12.4°  
 D = 8.68'  
 R = 660.0 ft.  
 L = 142.4 ft.  
 T = 71.5 ft.  
 E = 3.9 ft.

*Robert O. ...*  
 REVISION 3 ONLY

*William ...*  
 REVISION 4 ONLY



DEPARTMENT OF PUBLIC WORKS  
 HOWARD COUNTY, MARYLAND

*Robert ...* 1-15-03  
 CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING & ZONING  
 HOWARD COUNTY, MARYLAND

*William ...*  
 CHIEF, DEVELOPMENT ENGINEERING DIVISION

PREPARED BY:

**WR&A**

Whitman, Reardon and Associates, LLP.  
 801 South Caroline Street,  
 Baltimore, Maryland, 21231  
 410-235-3450

DES:	C.D.	SRI	REVISED THE ADMIN/CLASSROOM BLDG W/WALKWAY AND PARKING AREA W/2 HANDICAPPED SPACES	7/13/05
DRN:	C.K.	SRI	ADD 6" W/DIP CONNECTION FROM ADMIN/CLASSROOM BLDG TO WATER CONTRACT W-4-8-5072 (W-10)	11/16/05
CHK:	A.O.	SRI	RAISED (W-1), (W-2), (W-7), (W-10), LOWERED PART OF (W-4), EXTENDED (W-5)	10/23/06
DATE:	12/16/2002	KC1	AS BUILT DATA	10/14/04
BY:	NO.		REVISION	DATE

UTILITY PLAN

600' SCALE MAP NO. 16 BLOCK NO. 2 / 8

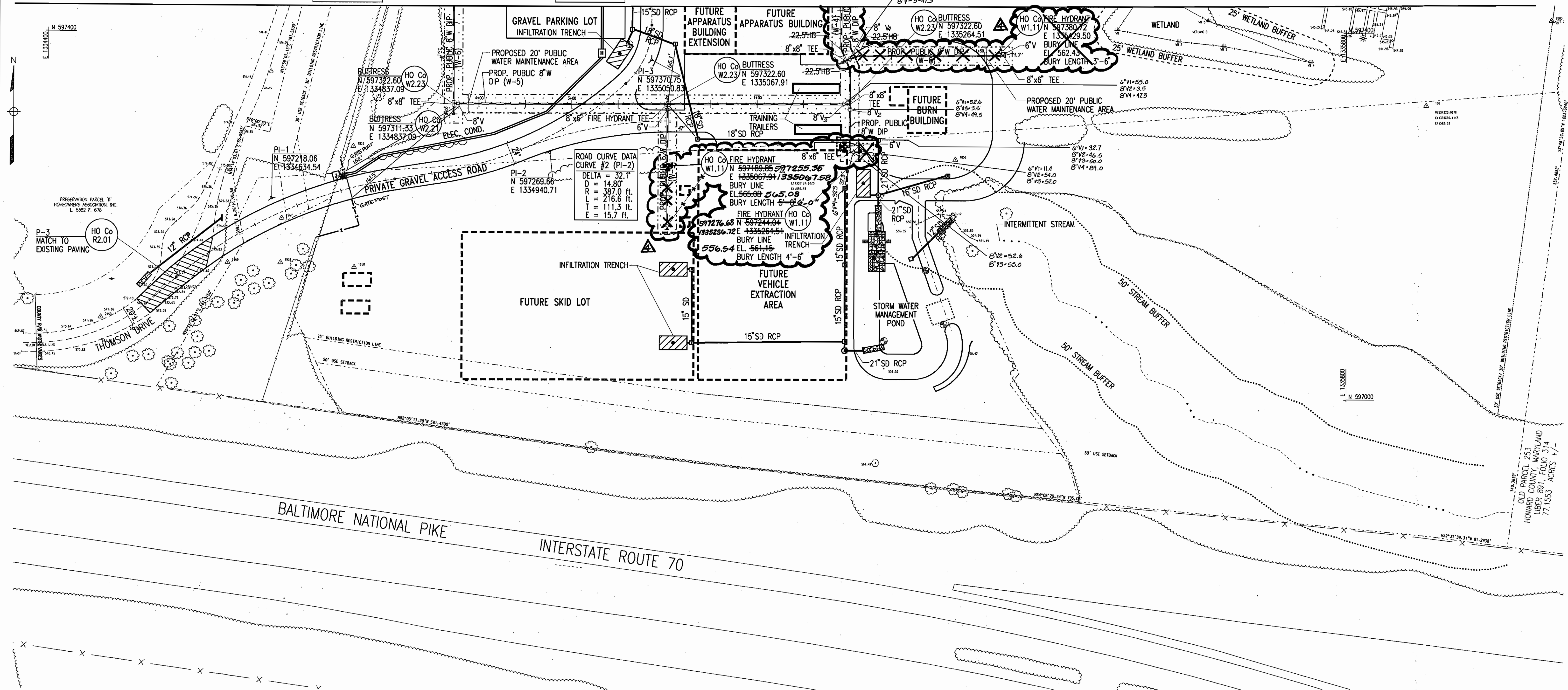
PUBLIC SAFETY TRAINING CENTER  
 AT ALPHA RIDGE LANDFILL  
 CAPITAL PROJECT NO. C-0182  
 HOWARD COUNTY, MARYLAND  
 WATER CONTRACT NUMBER 44-4072

SCALE AS SHOWN  
 SHEET 3 OF 6

ROAD CURVE DATA  
CURVE #1 (PI-1)  
DELTA = 31.2°  
D = 11.89'  
R = 482.0 ft.  
L = 262.2 ft.  
T = 134.4 ft.  
E = 18.4 ft.

ROAD CURVE DATA  
CURVE #3 (PI-3)  
DELTA = 47.4°  
D = 65.85'  
R = 87.0 ft.  
L = 72.0 ft.  
T = 38.2 ft.  
E = 8.0 ft.

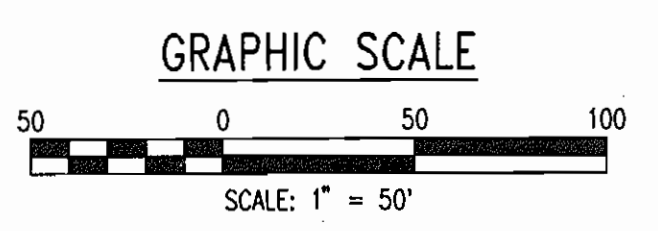
MATCH LINE SEE SHEET 3



PLAN  
SCALE: 1" = 50'



REVISION 4 ONLY



DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND  
*Rothman* 1-15-03  
CHIEF, BUREAU OF UTILITIES

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

PREPARED BY:  
**WR&A**  
Whitman, Reardon and Associates, LLP.  
801 South Caroline Street,  
Baltimore, Maryland, 21231  
410-235-3450



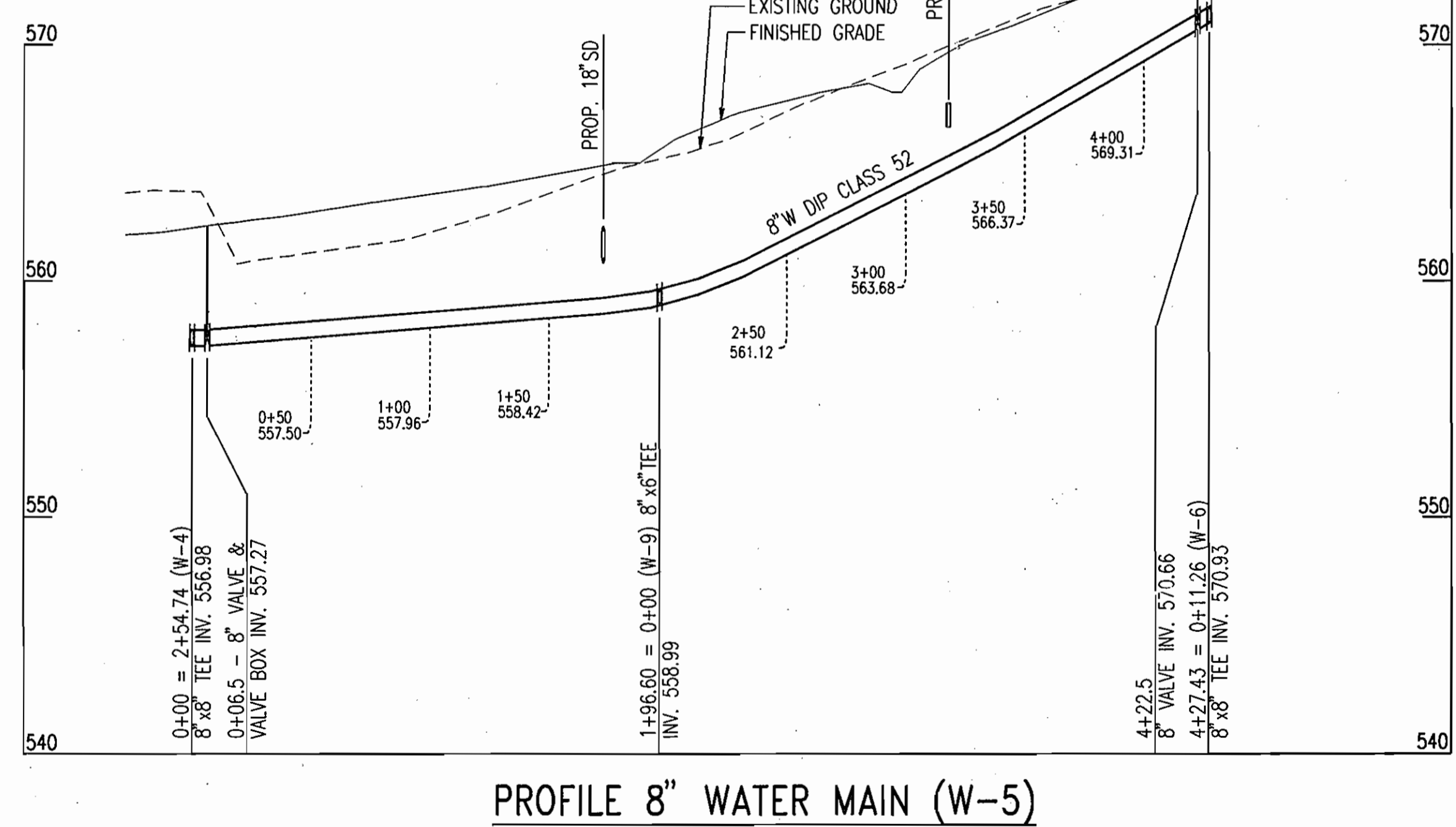
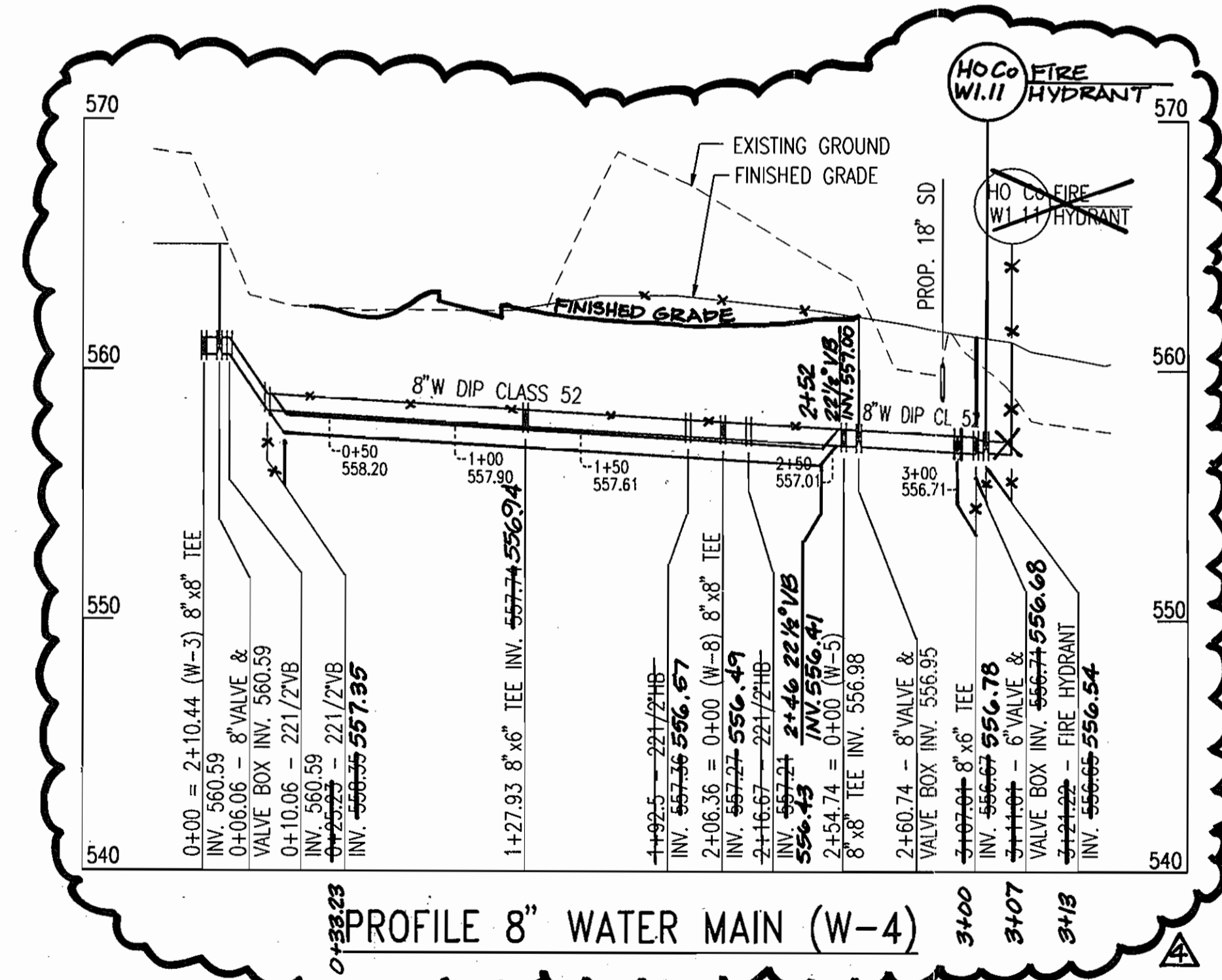
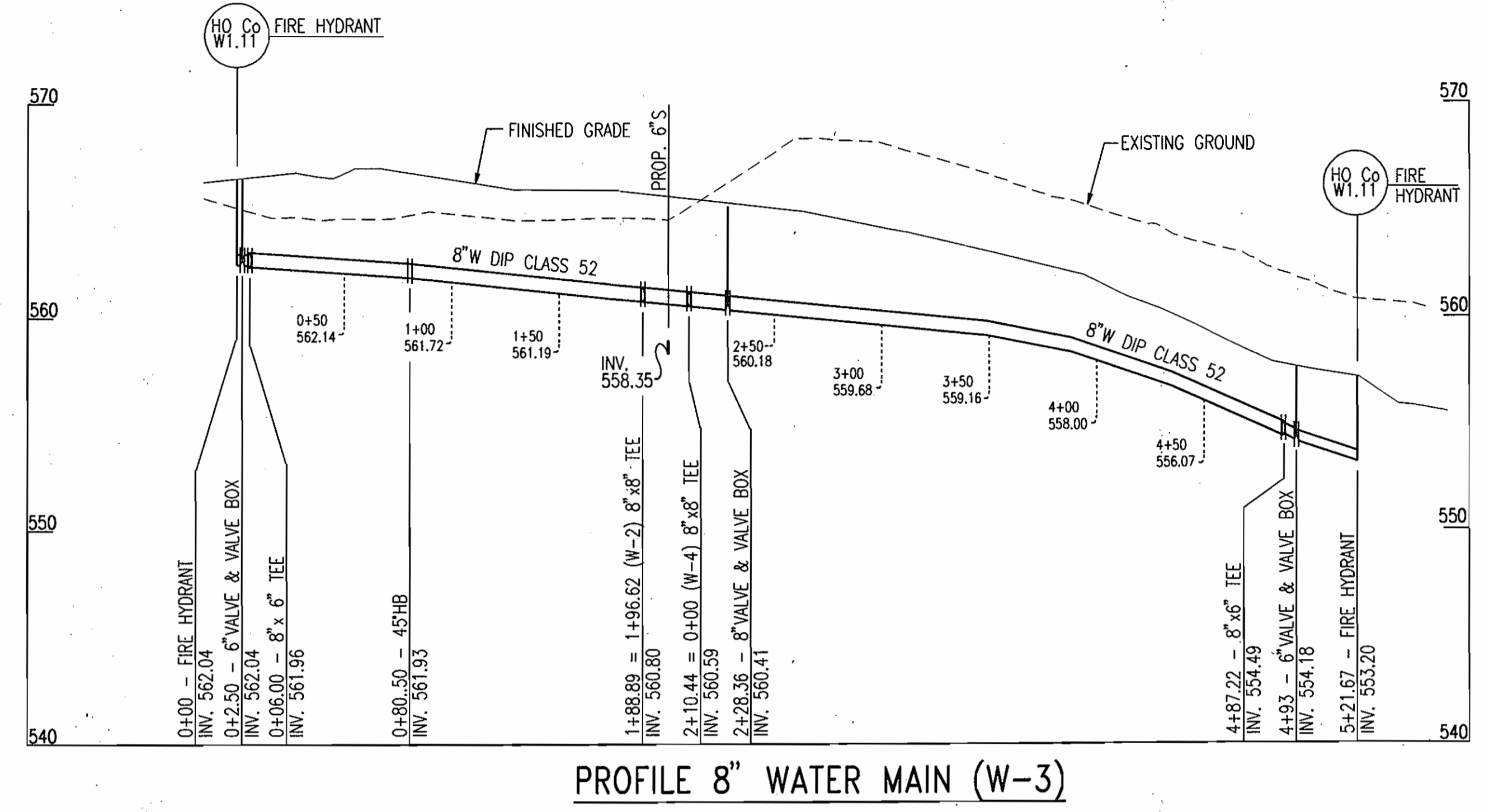
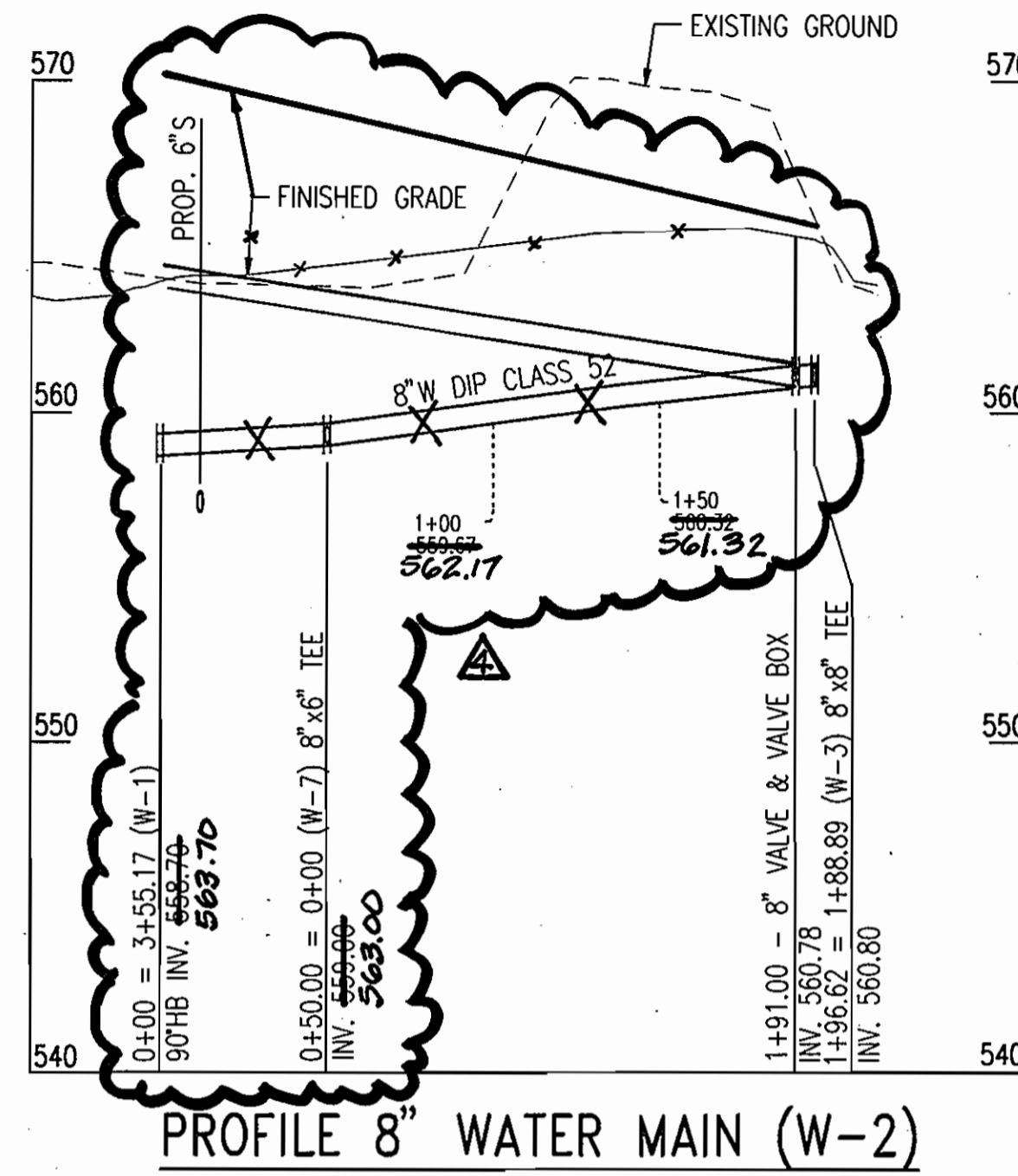
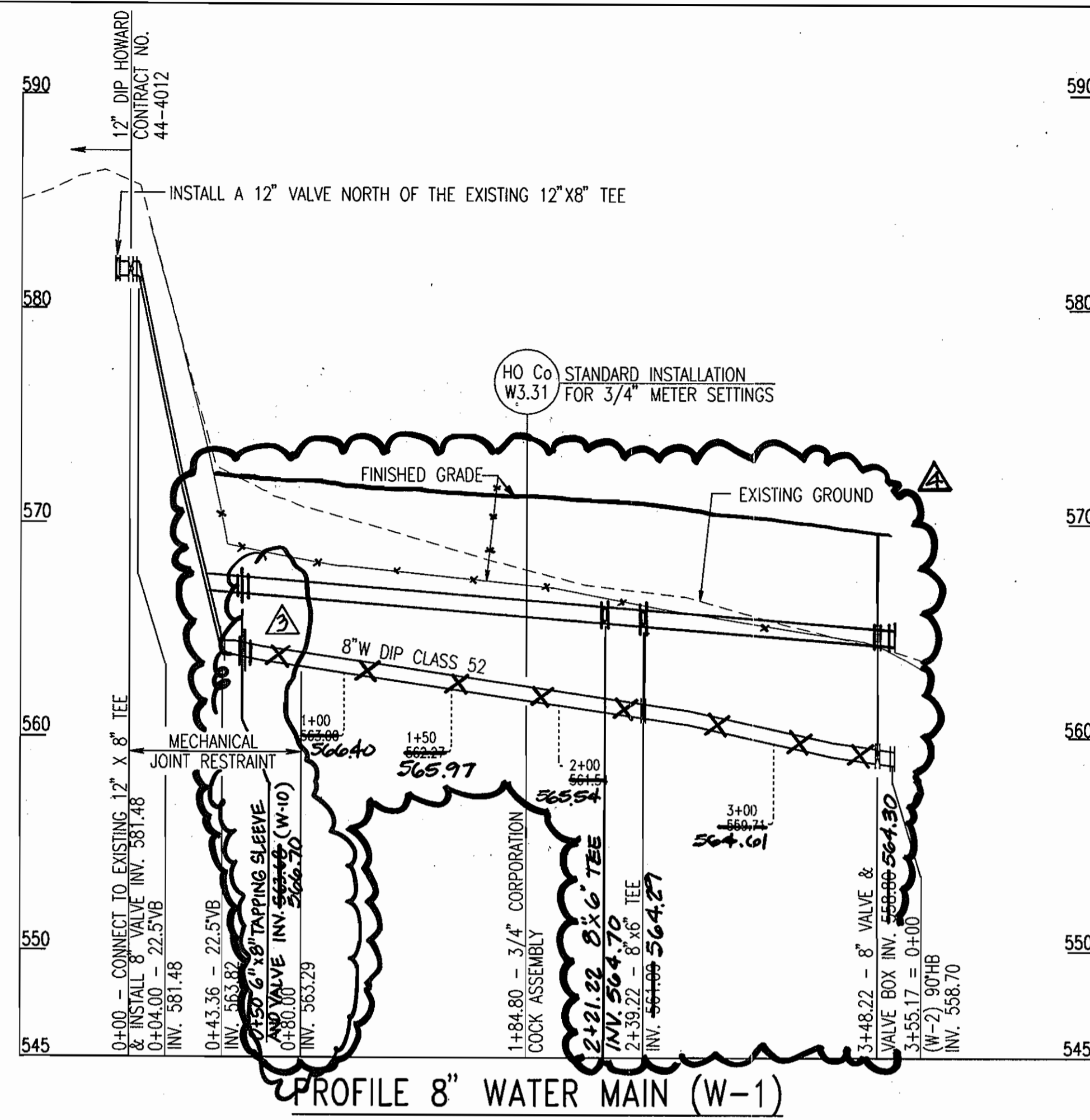
DES: C.D.	<b>SK1</b> LOWER PART OF (W-4); SHORTEN (W-9); EXTEND (W-8)	10/23/06
DRN: C.K.		
CHK: A.D.		
DATE: 12/16/2002	K.C.I. 1 AS-BUILT DATA	10/04/04
BY: NO.	REVISION	DATE

UTILITY PLAN

600' SCALE MAP NO. 16 BLOCK NO. 2 / 8

PUBLIC SAFETY TRAINING CENTER  
AT ALPHA RIDGE LANDFILL  
CAPITAL PROJECT NO. C-0182  
HOWARD COUNTY, MARYLAND  
WATER CONTRACT NUMBER 44-4072

SCALE AS SHOWN  
SHEET 4 OF 6

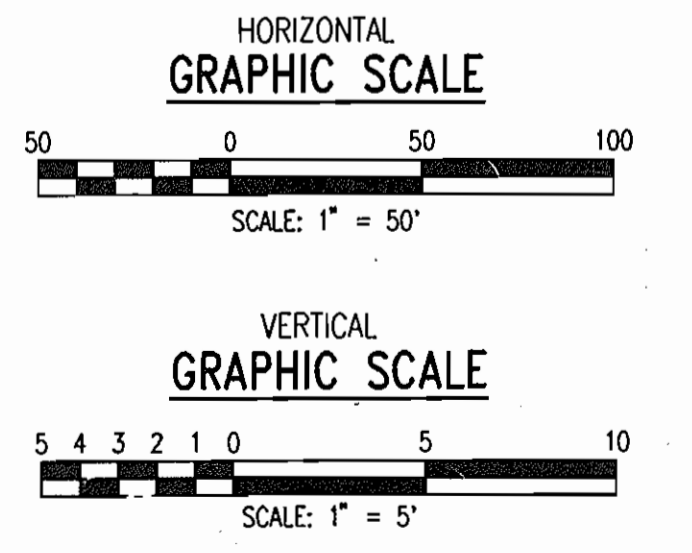


MINIMUM COVER= 3.5' (TYPICAL)

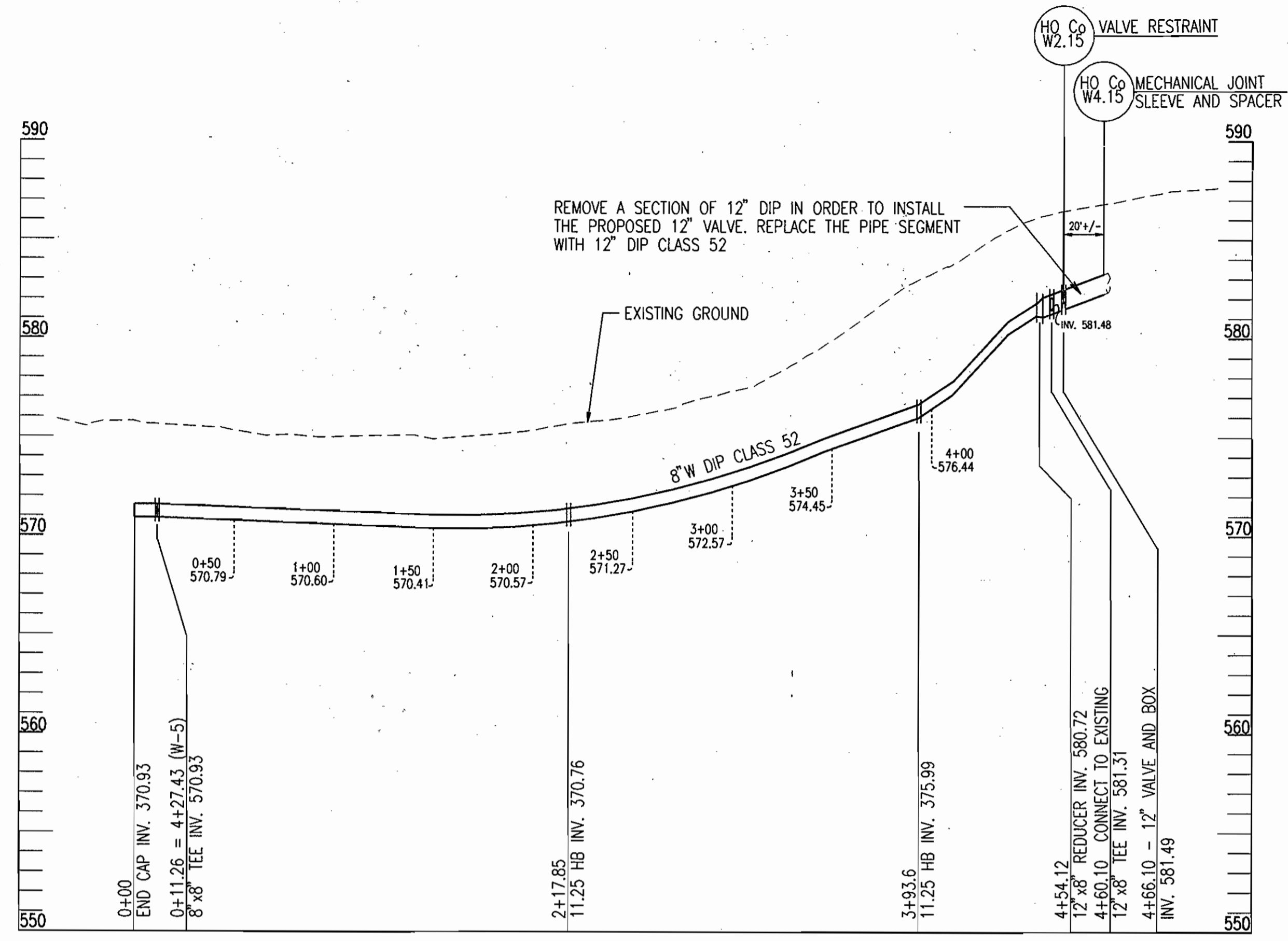


REVISION 4 ONLY

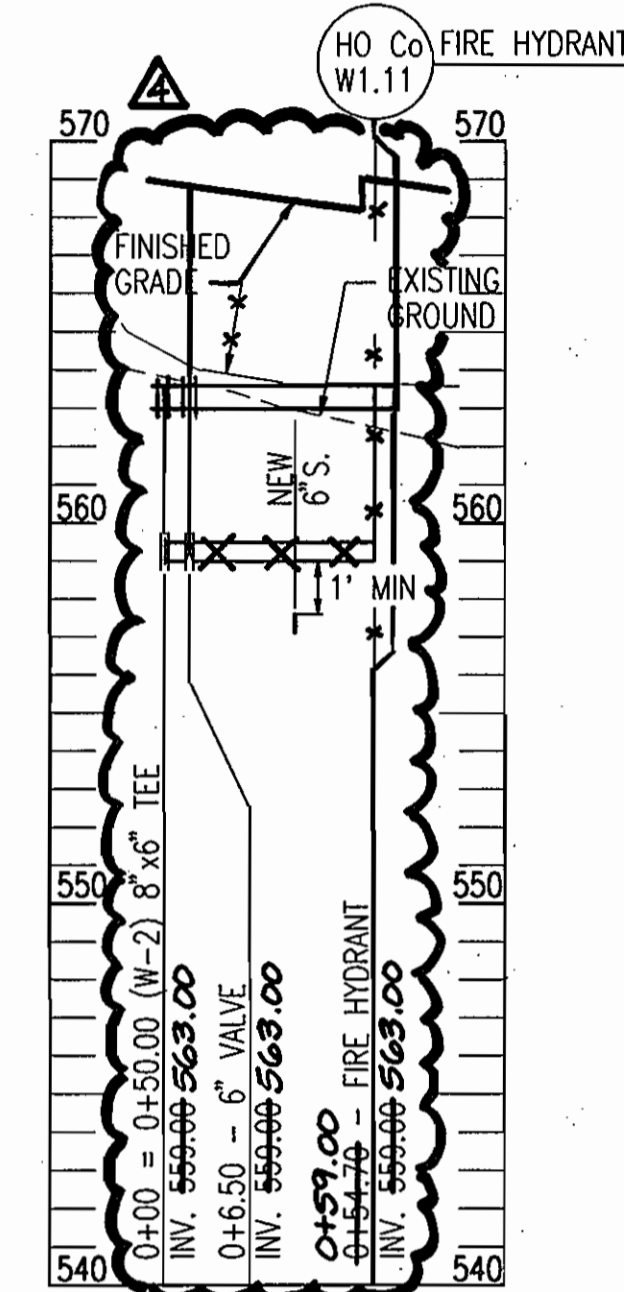
Revision 3 only



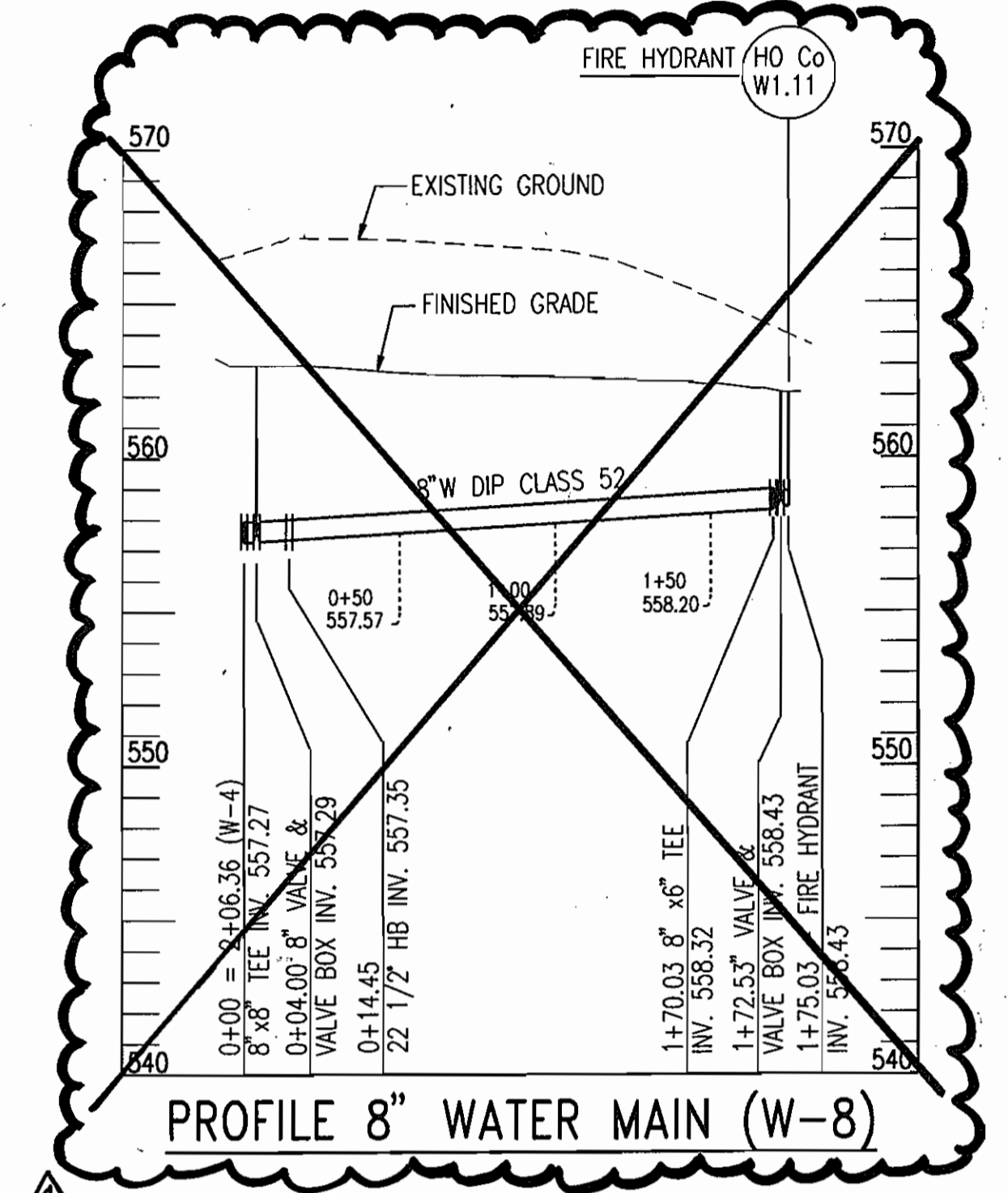
DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND	DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND	PREPARED BY: <b>WR&amp;A</b> Whitman, Reardon and Associates, LLP. 801 South Caroline Street, Baltimore, Maryland. 21231 410-235-3450	DES: C.D.	SRI	ADDED 6" X 18" TAPPING SLEEVE & VALVE TO PROFILE 8" WATER MAIN (W-1)	1/16/05
			DRN: C.K.	SRI	RAISED (W-1) & (W-2); LOWERED (W-4)	1/12/06
			CHK: A.O.			
			DATE: 12/16/2002	KCI	ASBUILT DATA	10/04/04
				BY NO.	REVISION	DATE
			PROFILES - WATER MAINS			
			PUBLIC SAFETY TRAINING CENTER AT ALPHA RIDGE LANDFILL CAPITAL PROJECT NO. C-0182 HOWARD COUNTY, MARYLAND WATER CONTRACT NUMBER 44-4072			SCALE AS SHOWN
						SHEET 5 OF 6
						SDP-03-36



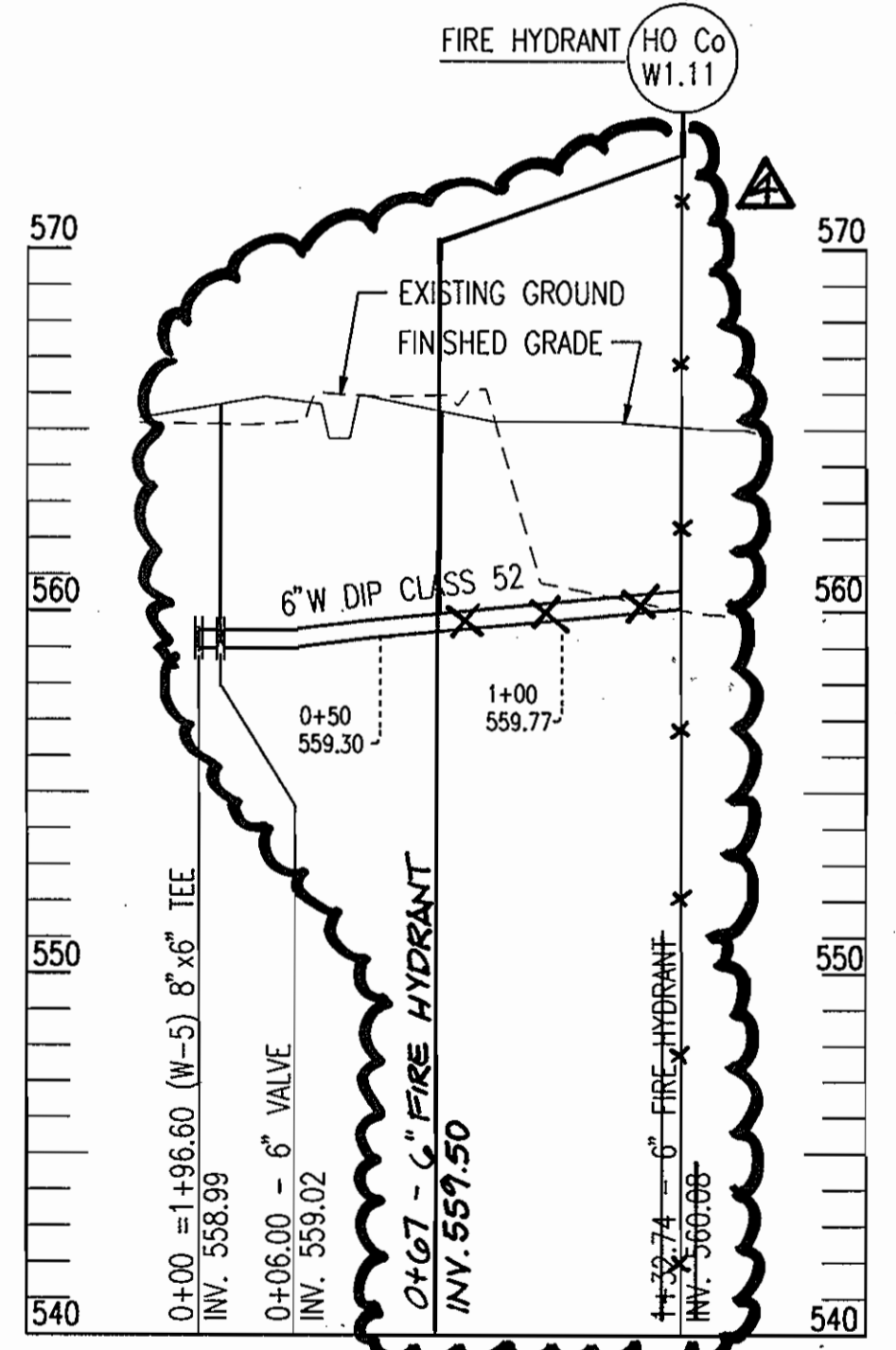
PROFILE 8" WATER MAIN (W-6)



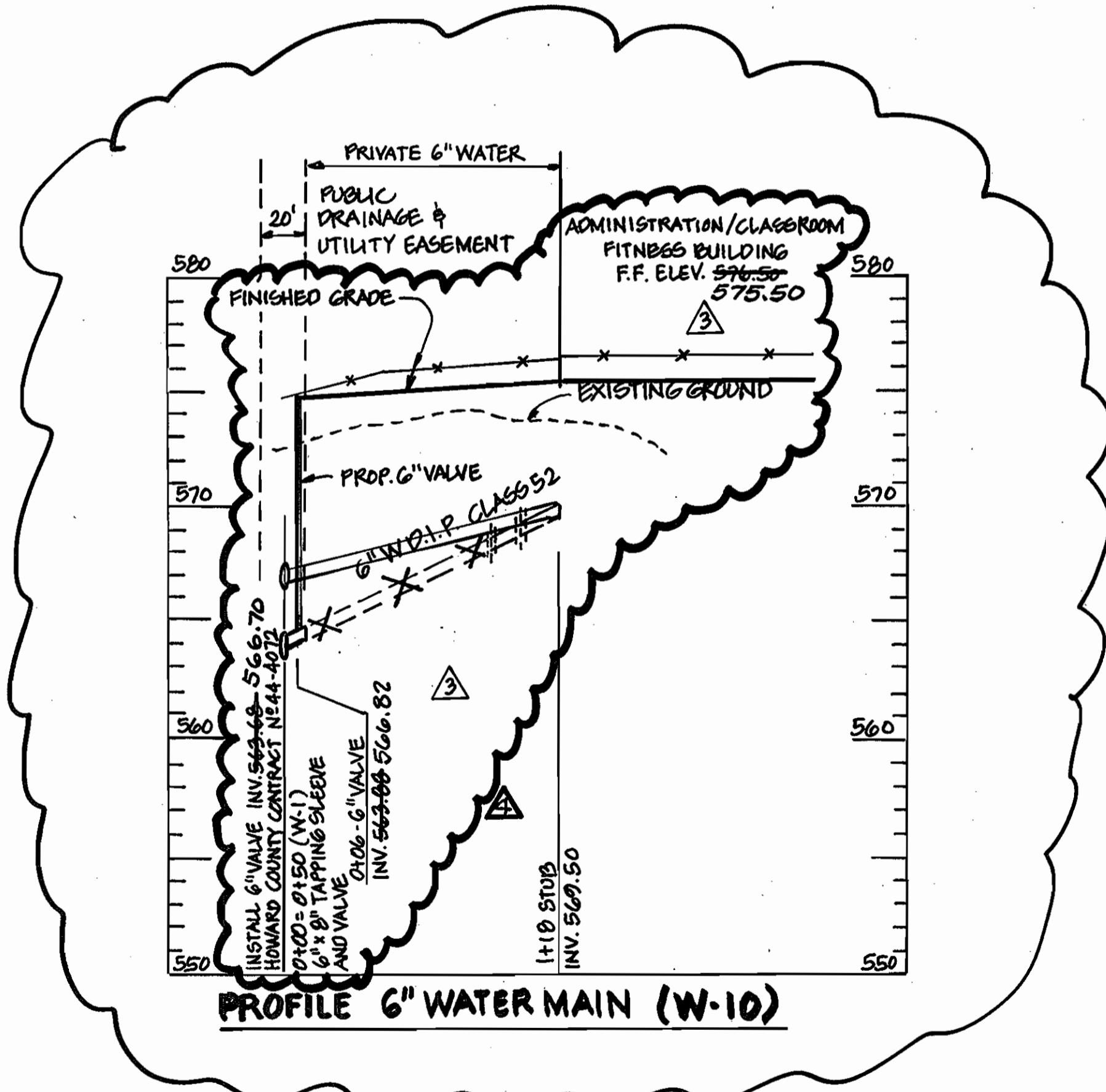
PROFILE 6" WATER MAIN (W-7)



PROFILE 8" WATER MAIN (W-8)

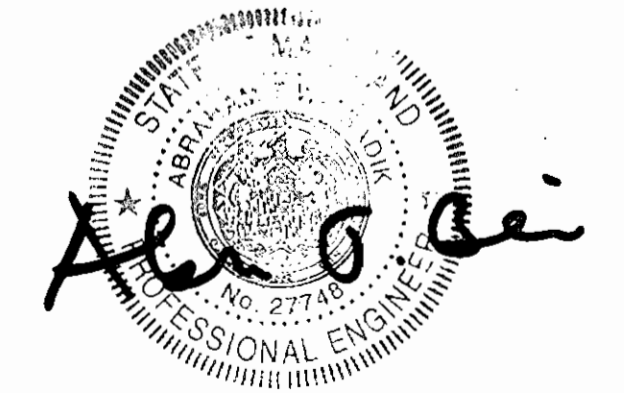


PROFILE 6" WATER MAIN (W-9)



PROFILE 6" WATER MAIN (W-10)

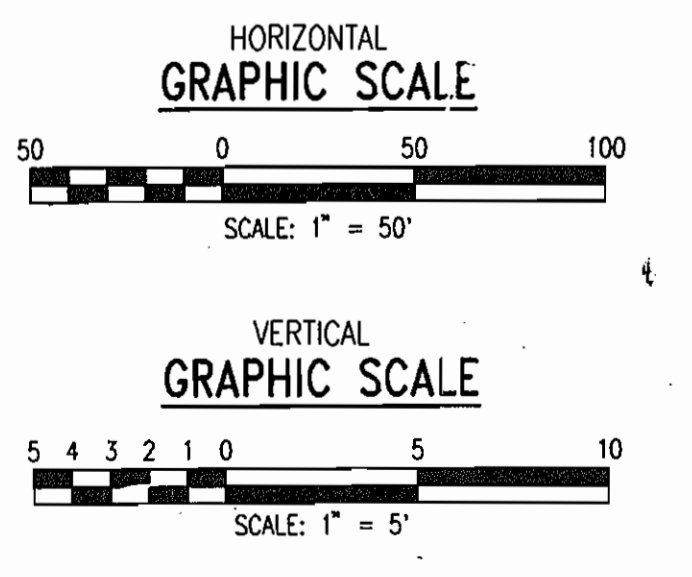
MINIMUM COVER= 3.5' (TYPICAL)



Revision 3 only



Revision 4 only



DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND 1-15-09 CHIEF, BUREAU OF UTILITIES	DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND CHIEF, DEVELOPMENT ENGINEERING DIVISION	PREPARED BY: <b>WR&amp;A</b> Whitman, Reardon and Associates, LLP. 801 South Caroline Street, Baltimore, Maryland, 21231 410-235-3450	DES: C.D. DRN: C.J.K. CHK: A.O. DATE: 12/16/2002	GRI GRI K.L.I. BY NO.	ADDED PROFILE 6" WATER MAIN (W-10) RAISED (W-7) & (W-10); DEMOLISH (W-8); SHORTENED (W-9). AS-BUILT DATA	1/16/06 1/22/06 1/10/04 DATE	600' SCALE MAP NO. 16 BLOCK NO. 2 / 8 REVISION	PUBLIC SAFETY TRAINING CENTER AT ALPHA RIDGE LANDFILL CAPITAL PROJECT NO. C-0182 HOWARD COUNTY, MARYLAND WATER CONTRACT NUMBER 44-4072	SCALE AS SHOWN SHEET 6 OF 6
--	---	--	---	--------------------------------	---	---------------------------------------	---	--	--------------------------------