

GENERAL NOTES

- 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 U.S.G.S. data.
- All pipe elevations shown are \circ invert elevations.
- Clear all utilities by a minimum of 6".
- 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 Constructions. 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 \square 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 verified by the contractor to his own personal satisfaction. Any damage to existing facilities due to the contractor's negligence shall be repaired at the contractor's expense.
- The contractor shall notify the following utilities or agencies at least five working days before starting work shown on these plans:
 - State Highway Administration 631-5533
 - Baltimore Gas and Electric Co. - Contractor Services 850-4820
 - Baltimore Gas and Electric Co. - Underground Damage Control 859-9004
 - Baltimore Gas and Electric Co. - Trouble Shooting 296-9001
 - Mesa Utility 1-559-0100
 - Colonial Pipeline Co. 795-1390
 - Bureau of Utilities, Ho.Co. Department of Public Works 992-2366
 - C & P Telephone Co. 1-800-257-7777
- Trees and shrubs are to be protected from damage to 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 construction of the main.
- All water mains to be D.I.P. CLASS 52 UNLESS OTHERWISE NOTED. ALL D.I.P. FITTINGS SHALL BE IN ACCORDANCE WITH ANNUAL SPECIFICATION C-153 DUCTILE IRON COMPACT FITTINGS, 3-INCH THROUGH 12-INCH FOR WATER & OTHER LIQUIDS.
- 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 elevation shown on the drawings. All fire hydrants shall be strapped and buttressed with concrete in accordance with the Standard Details. Soil around the fire hydrant shall be compacted in accordance with Section 1003 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 the plans or in the Specifications.
- All sewer mains shall be C.S.P.X., R.C.S.P., V.C.P.X., A.C.P. Class 2400 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.
- Force mains shall be D.I.P. only.
- Manholes shown with 12" and 18" walls are for brick manholes only.
- Manholes designated W.T. in plan and profile shall have watertight frame and covers, Standard Detail 05.52. Where watertight manhole frame and cover is 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 the cellar cannot be served.

BENCHMARKS:

- KIDDE BM #B-1 ELEV. 366.14
- SAN. SEWER MANHOLE - 6
- KIDDE BM #B-2 ELEV. 372.07
- SAN. SEWER MANHOLE - 7

PLAN
1" = 50'

Item	Quantities		Material Supplier	MANUFACTURER
	Estimated	As Built		
8" SEWER	790 L.F.	964.0	BELAIR ROAD SUPPLY CO. INC.	V-M MANUFACTURING CORP. GRIFFIN PIPE PRODUCTS CO. ATLANTIC CONCRETE PRODUCTS
6" SHC DIP	318 L.F.	266.0	" " " "	
MANHOLES	5	60	ATLANTIC CONCRETE PROD.	
8" D.I.P.	410 L.F.	410.0	BELAIR ROAD SUPPLY CO. INC.	GRIFFIN PIPE PRODUCTS
6" DROP H.C.	1	1.0	" " " "	
6" WATER	1060 L.F.	1076.0	" " " "	" " " " GRIFFIN PIPE PRODUCTS MUELLER COMPANY
6" VALVES	3	3.0	" " " "	
8" X 6" REDUCER	1	1.0	BELAIR ROAD SUPPLY CO. INC.	GRIFFIN PIPE PRODUCTS MUELLER COMPANY MUELLER COMPANY
6" WATER	66 L.F.	15.0	" " " "	
FIRE HYDRANTS	3	2.0	" " " "	MUELLER COMPANY MUELLER COMPANY HONNELL METALS
6" F.H. VALVES	3	2.0	" " " "	
1" W.H.C.	174 L.F.	291.0	BELAIR ROAD SUPPLY CO. INC.	HONNELL METALS HONNELL METALS MUELLER COMPANY
3/4" W.H.C.	18 L.F.	70.0	" " " "	
8" 1/2" BENDS	2	2.0	" " " "	

Sediment control measures for this contract will be implemented in accordance with Section 219 of the Specifications and as shown on final road construction plan F-88-144.

HOWARD SOIL CONSERVATION DISTRICT:

Review for Howard Soil Conservation District and meets technical requirements.

James M. Nolan 10/4/88
U.S. SOIL CONSERVATION SERVICE DATE

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

Stephen R. John 10/4/88
HOWARD SOIL CONSERVATION DISTRICT DATE

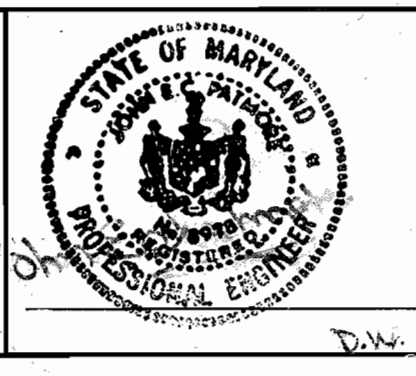
DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Robert S. Swearing 10-10-88
DIRECTOR OF PUBLIC WORKS DATE

James M. Nolan 10-4-88
CHIEF, BUREAU OF ENGINEERING DATE

Paul J. Seaman 10/4/88
CHIEF, LAND DEVELOPMENT DATE

KIDDE CONSULTANTS, INC.
1100 WEST STREET, SUITE 100
LAUREL, MARYLAND 20707
(301) 953-1821 792-8086



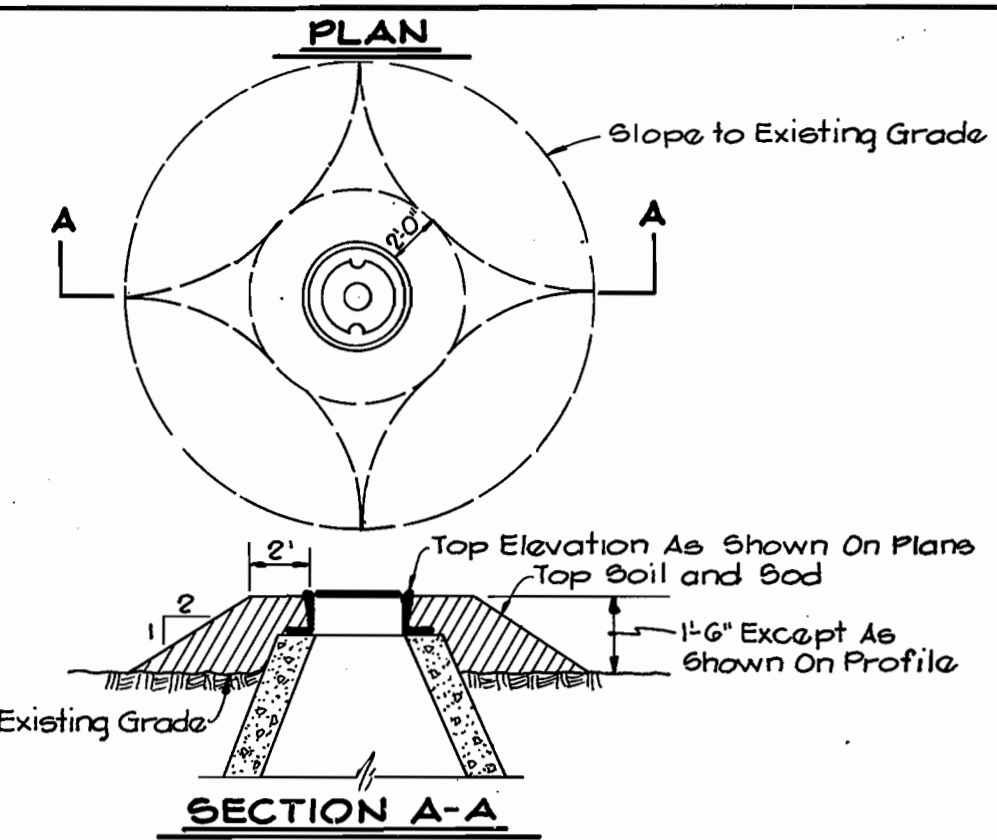
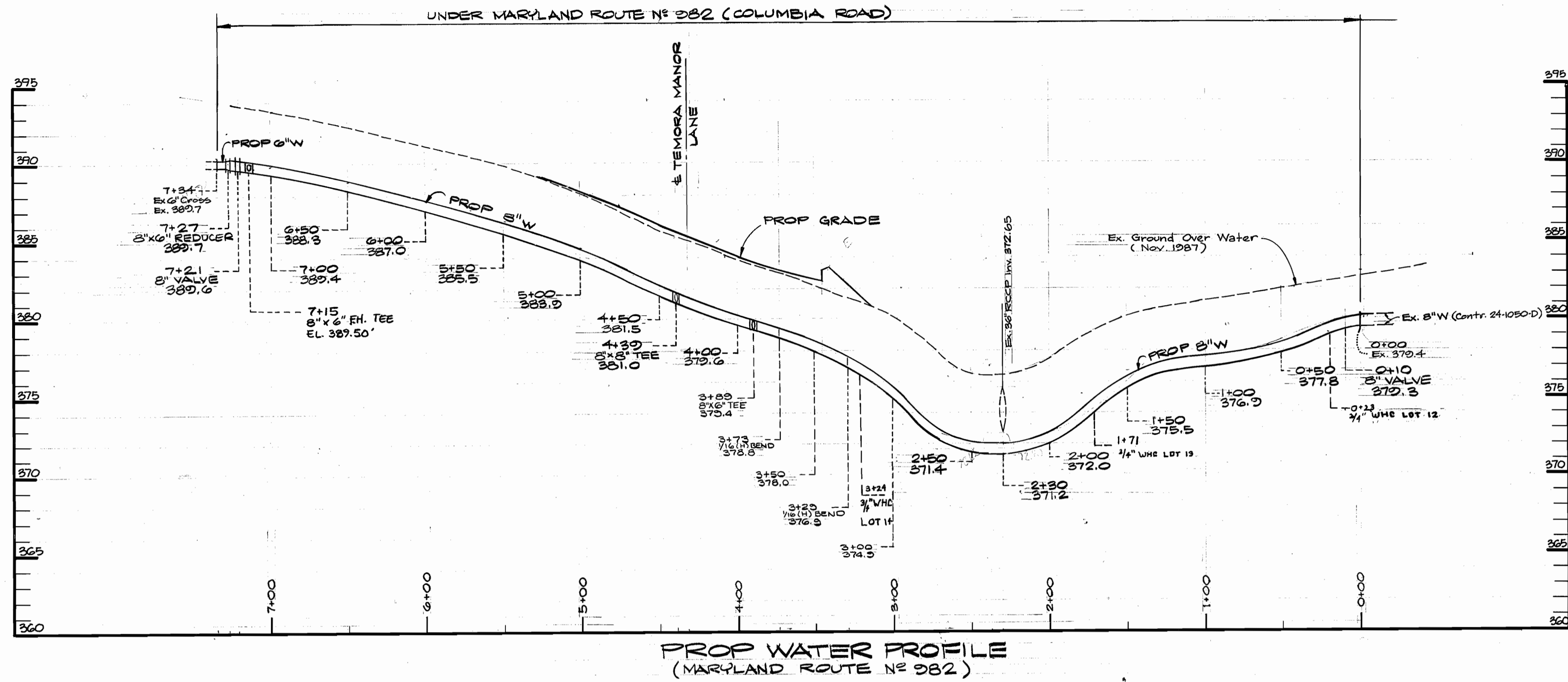
DES: MWK	SDH 6	Revised W.H.C. - Lots 15, 14 / Revised SHC Lots 14, 11	6/19/90	Revisions Cont'
DRN: MWK	SDH 5	Exposed Old MH-1, Revised New Sewer Main	3/20/90	
CHK: DW	SDH 4	Corrected SHC for Lots 14, 15 / Exposed old SHC's	3/19/90	
	S.A.P. 3	Revised & Relocated Sewer Alignment	2/10/90	
	PRZ 2	Relocated Sewer Main Between MH3 & MH4, Added Tees	4/2/88	
	84K 1	Correct Front Footage on the Lots.	5/1/89	
DATE:	BY NO.	REVISION	DATE	600' SCALE MAP NO. 24 BLOCK NO. 23

TEMORA MANOR
6th ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
CONTRACT NO. 24-1773-D

SCALE AS SHOWN

SHEET 1 OF 3

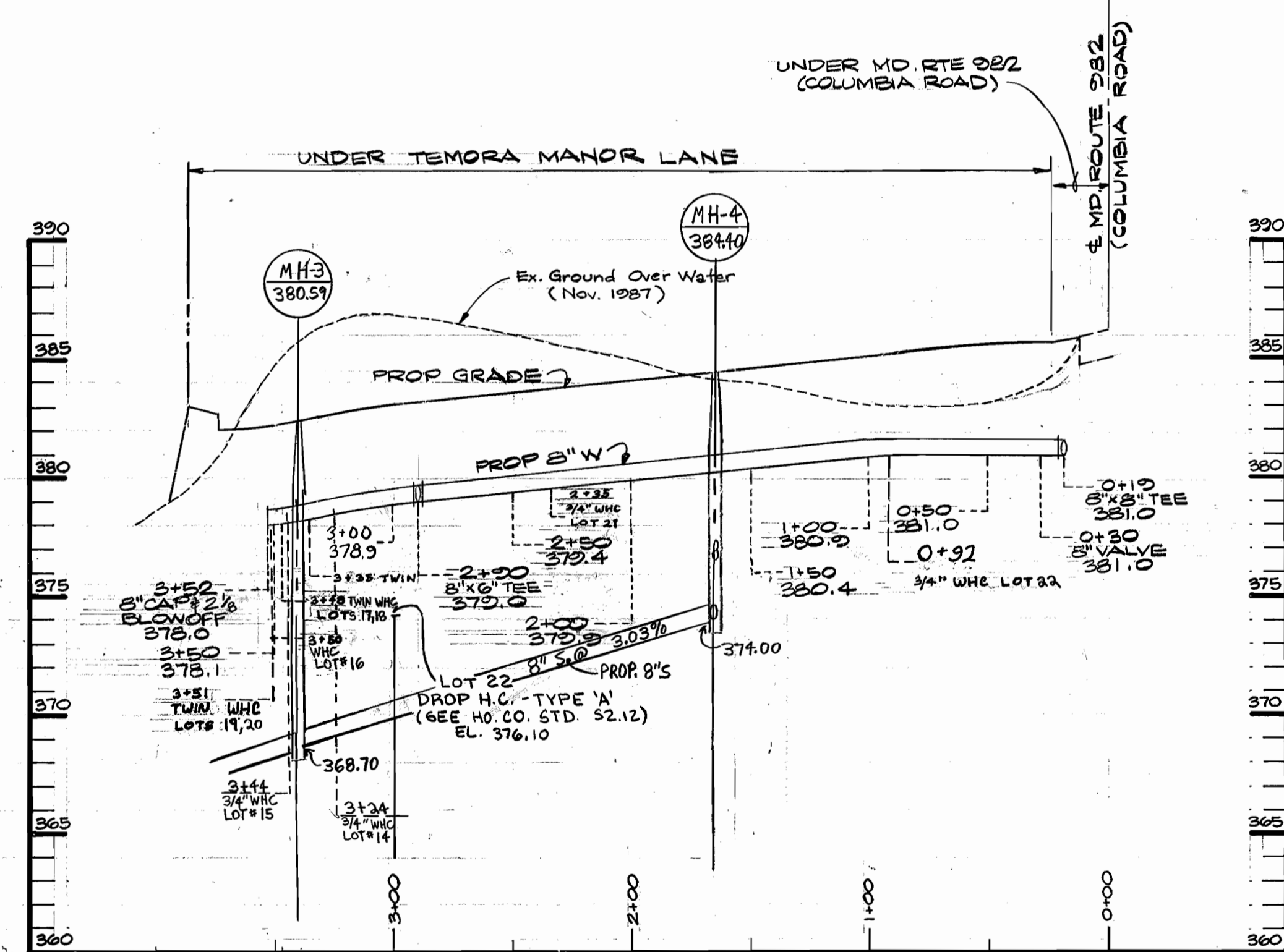
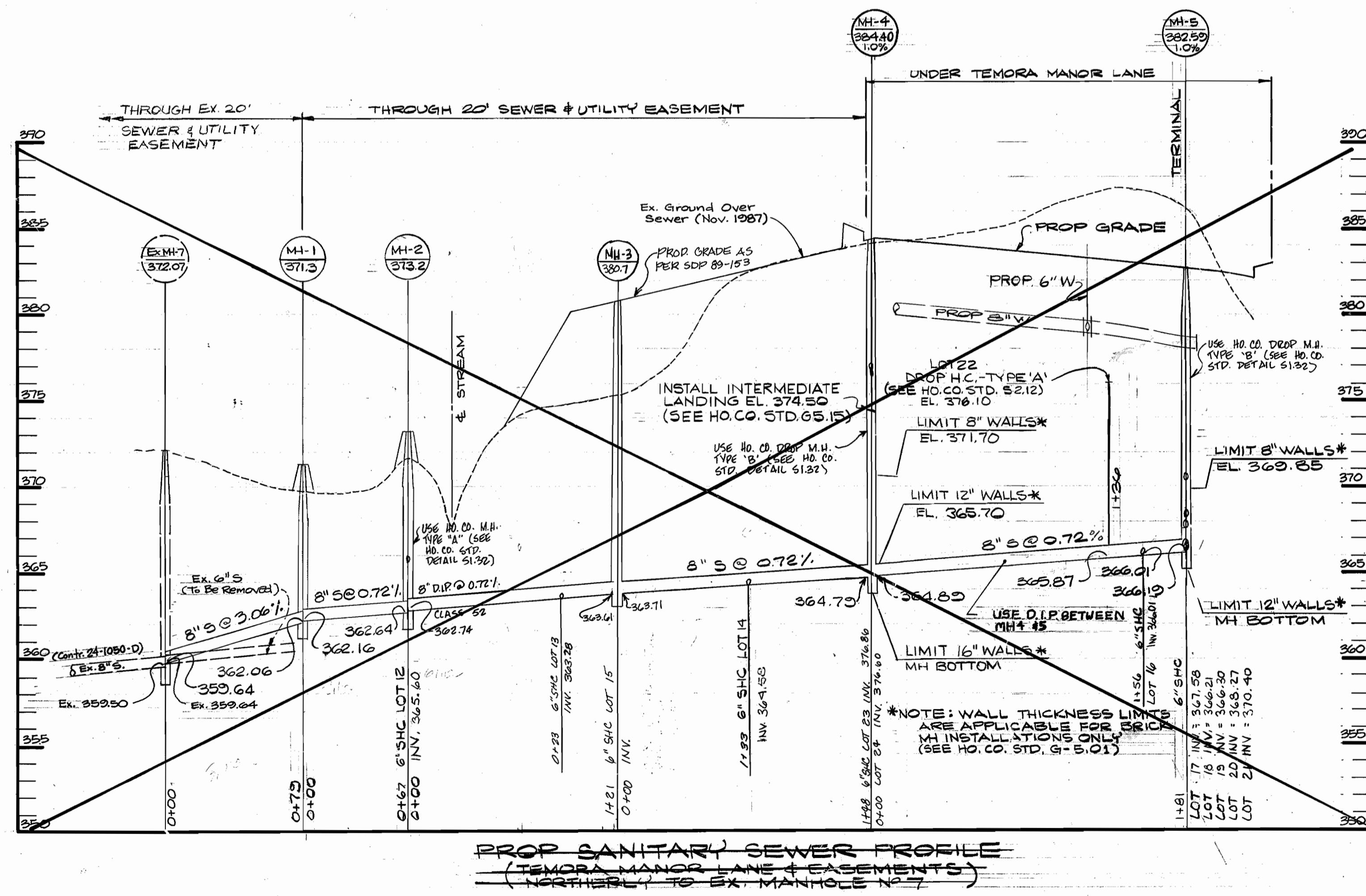
11/02/90 WATER & SEWER 'AS BUILTS' AS-BUILT



NOTES:

- All Manhole Frames and Covers shall be flush with grade except when shown on profile to be set higher than grade.
- Manhole Frame and Covers to be set higher than grade shall be set in accordance with this detail.
- Manhole Frames and Covers to be set higher than 1'-6\"/>

SPECIAL BACKFILL AT MANHOLE
NO SCALE



LOT#	PROP	CE
12	370.00	
13	368.00	
14	370.00	
15	370.00	
16	371.00	
17	371.00	
18	370.00	
19	370.00	
20	372.00	
21	375.00	
22	380.00	
23	381.00	
24	381.00	

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

HOWARD SOIL CONSERVATION DISTRICT:

Review for Howard Soil Conservation District and meets technical requirements... SHEET 3 OF 3

U.S. SOIL CONSERVATION SERVICE _____ DATE _____

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

HOWARD SOIL CONSERVATION DISTRICT _____ DATE _____

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

James M. Kelly 10-10-88
DIRECTOR OF PUBLIC WORKS DATE
Robert M. Switzer 10-10-88
CHIEF, BUREAU OF UTILITIES DATE
... 10-10-88
CHIEF, LAND DEVELOPMENT DATE

KIDDE CONSULTANTS, INC.
1100 WEST ST. SUITE 100
LAUREL, MARYLAND 20707
(301)953-1821 792-8086

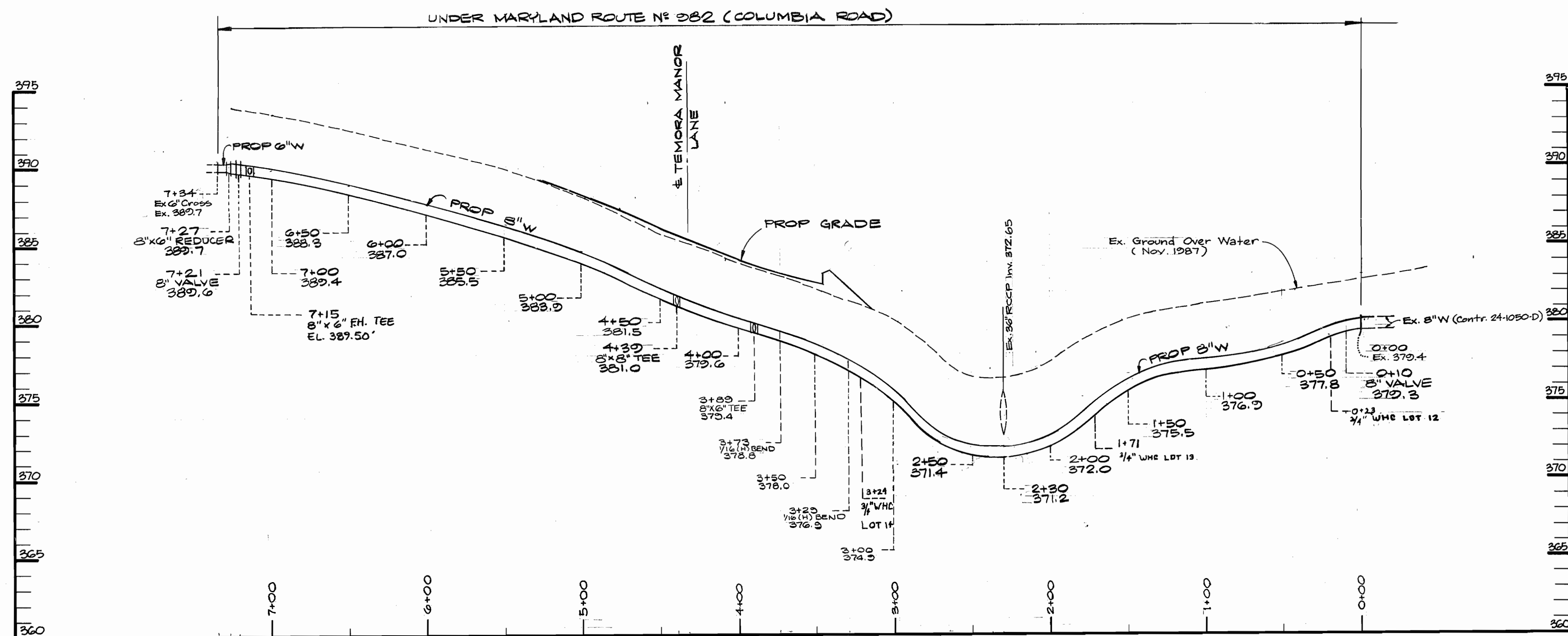


DES:	DRN:	CHK:	DATE:	BY:	NO.:	REVISION:	DATE:
MWK	MWK, EM	RA, DW					
			10-23-88		4	Added 8\"/>	

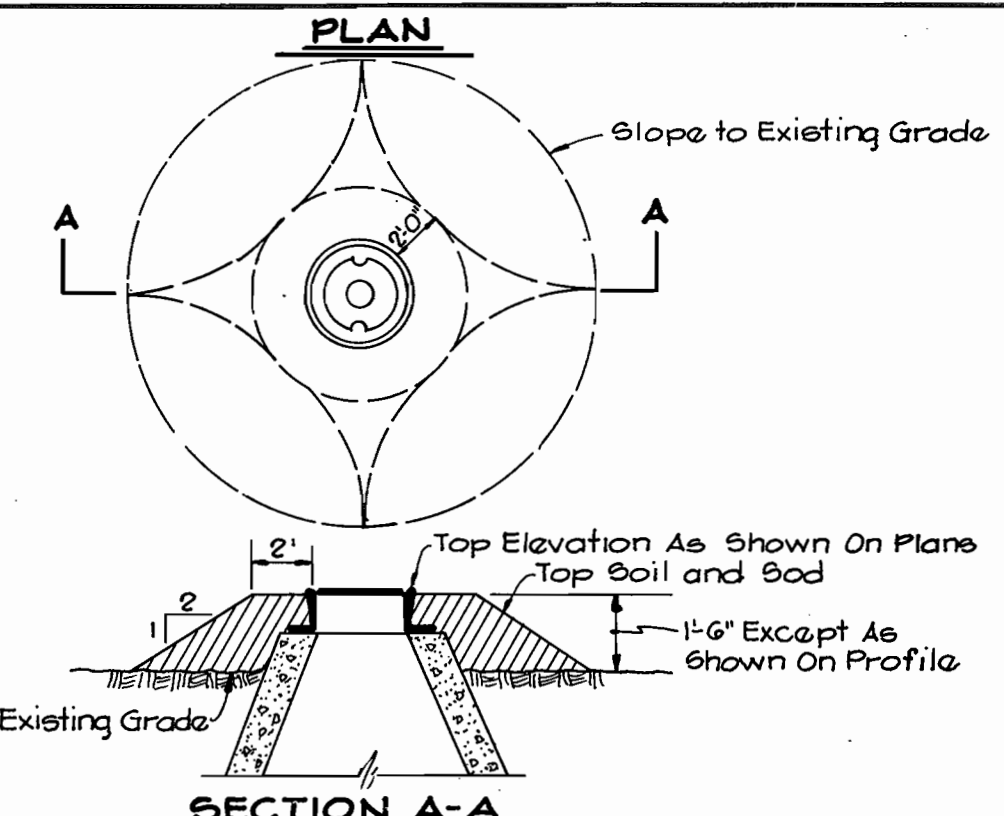
TEMORA MANOR
6th ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
CONTRACT NO. 24-1773-D

SCALE
HOR: 1"=50'
VER: 1"=5'
SHEET
2 OF 3

BRUNING 441-132 691 50



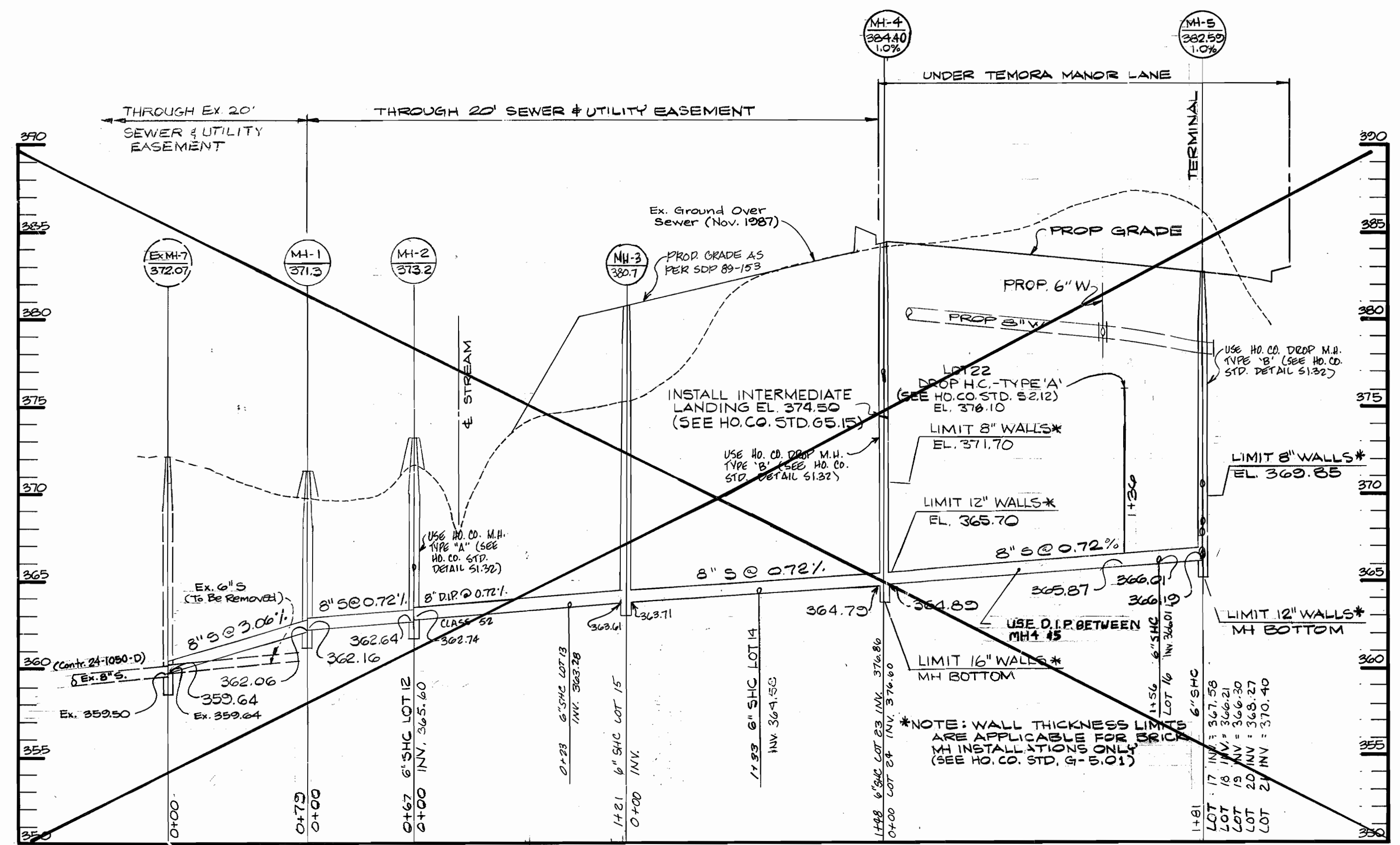
PROP WATER PROFILE
(MARYLAND ROUTE NO. 282)



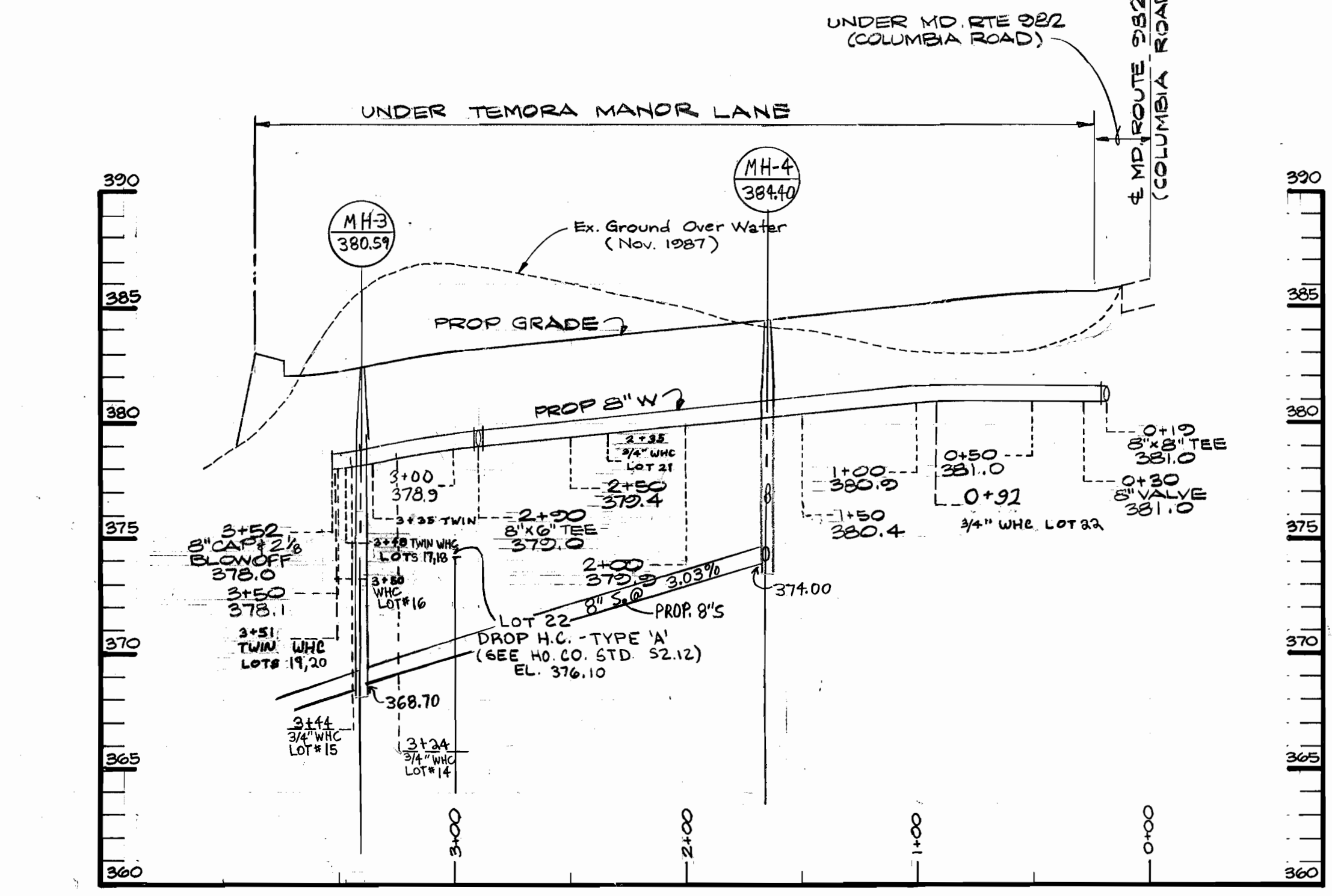
NOTES:

- All Manhole Frames and Covers shall be flush with grade except when shown on profile to be set higher than grade.
- Manhole Frames and Covers to be set higher than grade shall be set in accordance with this detail.
- Manhole Frames and Covers to be set higher than 1'-6" shall be set as noted on the profile and in accordance with this detail.

SPECIAL BACKFILL AT MANHOLE
NO SCALE



PROP SANITARY SEWER PROFILE
(TEMPORA MANOR LANE & EASEMENTS)
(NORTHERLY TO EX. MANHOLE NO. 7)



PROP WATER PROFILE
(TEMPORA MANOR LANE)

LOT#	PROP	CE
12	370.00	
13	368.00	
14	370.00	
15	370.00	
16	371.00	
17	371.00	
18	370.00	
19	370.00	
20	372.00	
21	375.00	
22	380.00	
23	381.00	
24	381.00	

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

HOWARD SOIL CONSERVATION DISTRICT: _____

Review for Howard Soil Conservation District and meets technical requirements. SHEET 3 OF 3

U.S. SOIL CONSERVATION SERVICE _____ DATE _____

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

HOWARD SOIL CONSERVATION DISTRICT _____ DATE _____

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

James M. Miller 10/11/88
DIRECTOR OF PUBLIC WORKS DATE

Robert M. Switzer 10-10-88
CHIEF, BUREAU OF UTILITIES DATE

Chief, Bureau of Engineering DATE

Chief, Land Development DATE

KIDDE CONSULTANTS, INC.
1100 WEST ST. SUITE 100
LAUREL, MARYLAND 20707
(301)953-1821 792-8086



DES: MWK

DRN: MWK, EM KLS 4 Added 8"x6" FH Tee @ STA 7+15 10-23-90

CHK: RA, DW S.A.P. 3 CROSSED OUT SEWER PROFILE 2/6/90

PR-2 2 CHANGED PROFILE OF SEWER MAIN BETWEEN MH-3 AND MH-4 4/2/88

DATE: 3/17/89

BY NO. REVISION

600' SCALE MAP NO. 24 BLOCK NO. 23

TEMORA MANOR
6th ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
CONTRACT NO. 24-1773-D

SCALE
HOR: 1"=50'
VER: 1"=5'

SHEET
2 OF 3