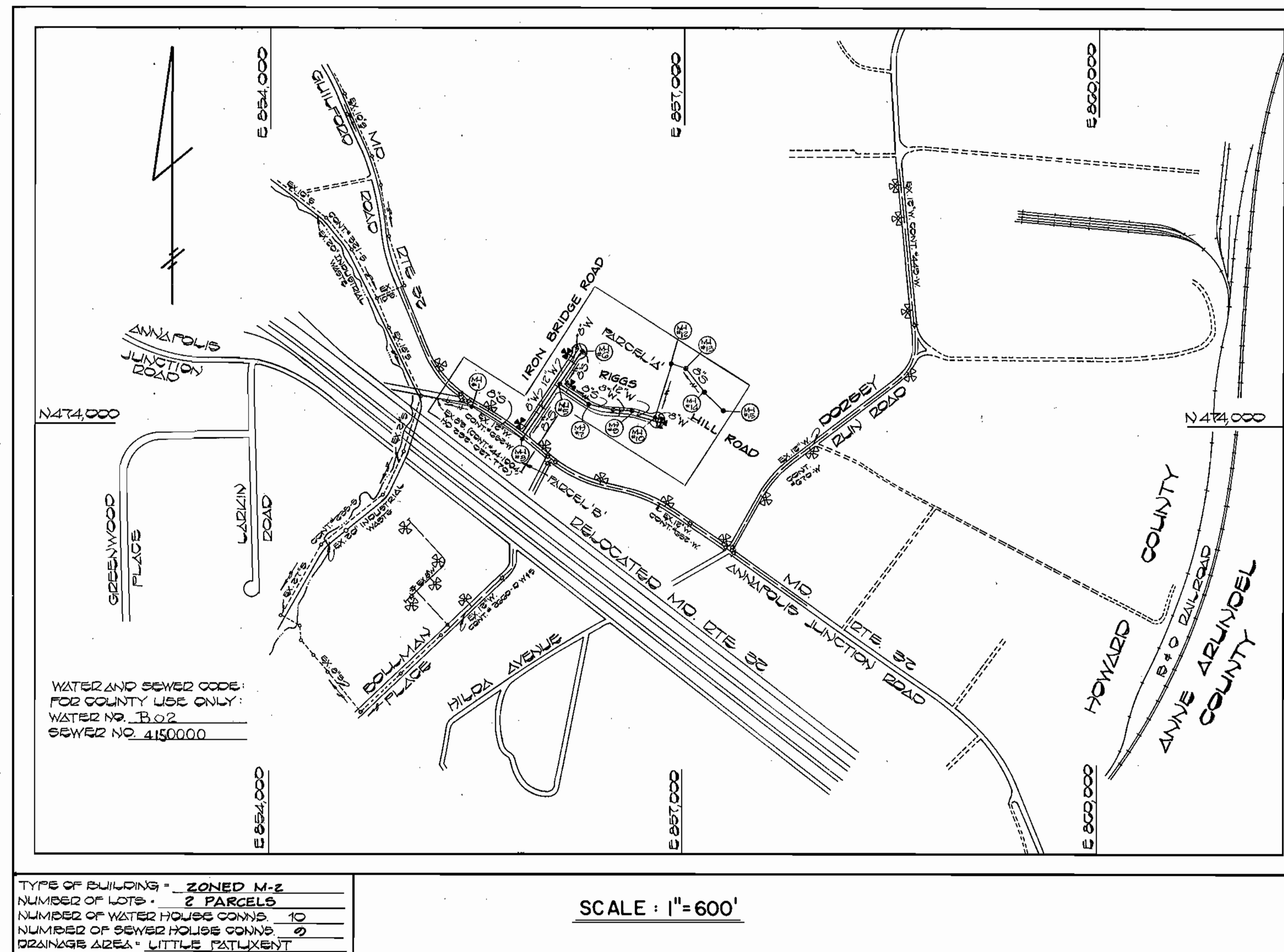


GENERAL NOTES

- 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. DATUM.
- 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 UTILITIES 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.
- CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE (5) WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:
 - STATE HIGHWAY ADMINISTRATION :531-5533
 - CHESAPEAKE & POTOMAC TELEPHONE COMPANY :725-9976
 - BALTIMORE GAS & ELECTRIC COMPANY- CONTRACTOR SERVICES:561-2585
 - BALTIMORE GAS & ELECTRIC COMPANY- UNDERGROUND DAMAGE CONTROL:234-5621
 - BALTIMORE GAS & ELECTRIC COMPANY- TROUBLE SHOOTING:298-9013
 - "MISS UTILITY":1-559-0100
 - BUREAU OF UTILITIES-HOWARD COUNTY :992-2366
- 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.
- CONTRACTOR SHALL REMOVE TREES, STUMPS AND ROOTS ALONG LINE OF EXCAVATION AS DIRECTED BY THE ENGINEER. PAYMENT FOR SUCH REMOVAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CONSTRUCTION OF THE MAIN.
- PLACE REGULATION "MEN WORKING" AND WARNING SIGNS AS REQUIRED TO COMPLY WITH MARYLAND STATE HIGHWAY ADMINISTRATION MANUAL OF TRAFFIC CONTROL FOR HIGHWAY CONSTRUCTION AND MAINTENANCE OPERATIONS.
- ALL SEWER MAINS SHALL BE C.S.P.X., R.C.S.P., P.V.C., V.C.P.X., OR A.C.P. CLASS 2400 UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL PROVIDE A JOINT IN ALL SEWER MAINS WITHIN 2'-0" OF EXTERIOR MANHOLE WALLS.
- ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER, UNLESS OTHERWISE NOTED.
- MANHOLES SHOWN WITH 12" AND 16" WALLS ARE BRICK MANHOLES ONLY.
- ALL WATER MAINS TO BE D.I.P. UNLESS OTHERWISE NOTED.
- TOP OF WATER MAINS TO HAVE A MINIMUM OF 3'-6" COVER UNLESS OTHERWISE NOTED.
- VALVES ADJACENT TO TREES SHALL BE STRAPPED TO TREES.
- FIRE HYDRANT SHALL BE SET TO THE BURY LINE ELEVATIONS SHOWN ON THE DRAWINGS. ALL FIRE HYDRANTS SHALL BE STRAPPED AND BUTTRESSED WITH CONCRETE IN ACCORDANCE WITH STANDARD DETAILS. SOIL AROUND THE FIRE HYDRANT TO BE COMPACTED IN ACCORDANCE WITH SECTION 1003 OF THE STANDARD SPECIFICATIONS.
- ALL WATER HOUSE CONNECTIONS SHALL BE FOR AN INSIDE METER SETTING.
- THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING SYSTEM.
- WATER MAINS AND WATER HOUSE CONNECTION LINES MUST BE PLACED SO AS TO HAVE AT LEAST ONE (1) FOOT SEPARATION FROM THE SEWER MAIN OR SEWER HOUSE CONNECTION AS THEY PASS ABOUT IT.
- MANHOLES LOCATED WITHIN PROPOSED ROADWAY SHALL HAVE STANDARD HEAVY TRAFFIC MANHOLE FRAME AND COVER, STANDARD DETAIL G5.5I
- MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATERTIGHT FRAME AND COVERS, STANDARD DETAIL G5.52. WHERE WATERTIGHT MANHOLE FRAME AND COVER IS USED, SET TOP OF FRAME 1'-6" ABOVE FINISHED GRADE.
- 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.
- ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH THE STANDARD DETAILS UNLESS OTHERWISE PROVIDED FOR ON THE DRAWINGS.

QUANTITIES			
ITEM	EST'D	AS BUILT	SUPPLIER
12" WATER	1001 L.F.	1526	Atlantic
8" WATER	326 L.F.	329	Atlantic
6" WATER	81 L.F.	80	Atlantic
8" SEWER	2460 L.F.	3369.5	ETC John Mansville
MANHOLES	15 EA.	15	Atlantic Precast
12" VALVES	3 EA.	3	DRESSER
8" VALVES	2 EA.	10	DRESSER
FIRE HYD.	4 EA.	4	DRESSER
G.F.H. VALVES	4 EA.	4	DRESSER
12" TAP SLEEVE	1 EA.	1	CLOW
8" TAP SLEEVE	1 EA.	N/A	N/A



CONTRACT NO. 24-1234-D

CORRIDOR NORTH

WATER AND SEWER MAIN EXTENSIONS

HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS

ALL SEDIMENT CONTROL OPERATIONS ARE TO BE DONE IN ACCORDANCE WITH ARTICLE 16 OF THE HOWARD COUNTY DESIGN MANUAL AND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREAS AND AS SHOWN ON THE GRADING AND SEDIMENT CONTROL PLAN P-84-110.

REVIEW FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS
James M. Nelson 8/29/84
 U.S. SOIL CONSERVATION SERVICE DATE

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

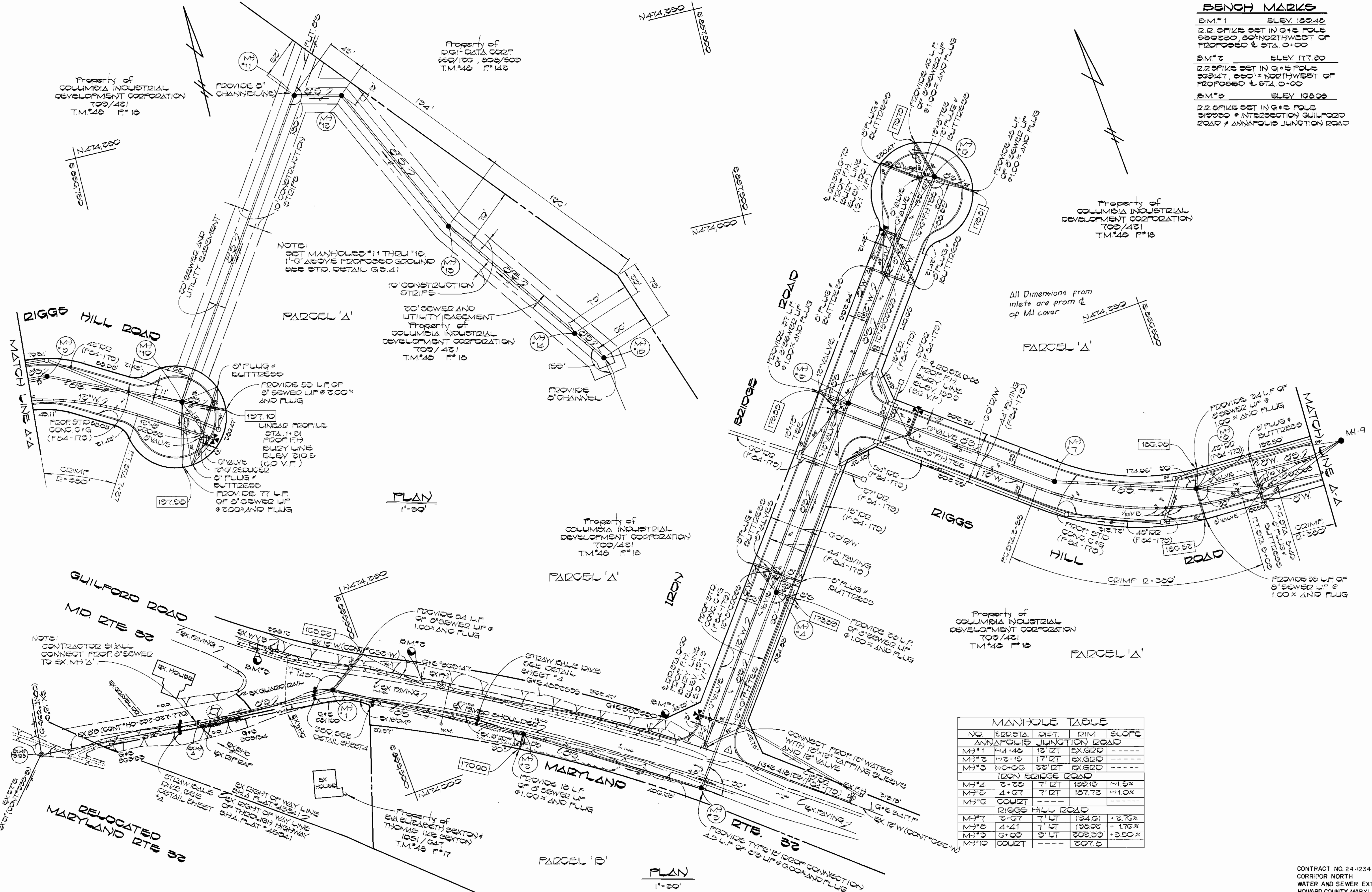
APPROVED
Stephen A. Fisher 3/22/84
 HOWARD SOIL CONSERVATION DISTRICT DATE

CONTRACT NO. 24-1234-D
 CORRIDOR NORTH
 WATER AND SEWER EXTENSION
 HOWARD COUNTY, MARYLAND

<p>DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND</p> <p><i>Henry F. Niemeyer</i> 9-7-84 DIRECTOR OF PUBLIC WORKS DATE</p> <p><i>Robert M. Brumby</i> 8-27-84 CHIEF, BUREAU OF UTILITIES DATE</p>	<p>FISHER, COLLINS, AND CARTER, INC. CONSULTING ENGINEERS AND LAND SURVEYORS</p> <p>8398 COURT AVENUE ELLICOTT CITY, MARYLAND 21043</p> <p><i>Terrell A. Fisher</i> 5/22/84 DATE</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>DES. D.B.S.</td> <td>DEV. Eliminated 8" W Service to Parcel 'B'</td> <td>1/16/84</td> </tr> <tr> <td>DRN. D.B.S.</td> <td></td> <td></td> </tr> <tr> <td>CHK. T.A.F.</td> <td></td> <td></td> </tr> <tr> <td>BY</td> <td>NO.</td> <td>REVISION</td> </tr> </table>	DES. D.B.S.	DEV. Eliminated 8" W Service to Parcel 'B'	1/16/84	DRN. D.B.S.			CHK. T.A.F.			BY	NO.	REVISION	<p>CORRIDOR NORTH</p> <p>CONTRACT NO. 24-1234-D SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND</p> <p>TITLE SHEET</p>	<p>SCALE AS SHOWN</p> <p>SHEET 1 OF 4</p>
DES. D.B.S.	DEV. Eliminated 8" W Service to Parcel 'B'	1/16/84														
DRN. D.B.S.																
CHK. T.A.F.																
BY	NO.	REVISION														

BENCH MARKS

B.M.#1	ELEV. 109.48
2.2 SPIKE SET IN G+5 POLE 899230, 80' NORTHWEST OF PROPOSED STA. 0+00	
B.M.#2	ELEV. 117.30
2.2 SPIKE SET IN G+5 POLE 863147, 550' NORTHWEST OF PROPOSED STA. 0+00	
B.M.#3	ELEV. 108.00
2.2 SPIKE SET IN G+5 POLE 819050 • INTERSECTION GUILFORD ROAD & ANNAPOLIS JUNCTION ROAD	



All Dimensions from inlets are from & of MH cover

NOTE:
SET MANHOLES #11 THRU #16
1'-0" ABOVE PROPOSED GROUND
SEE STD. DETAIL G.E. 41

20' SEWER AND UTILITY EASEMENT
Property of COLUMBIA INDUSTRIAL DEVELOPMENT CORPORATION
T.M.#48 P#18

PLAN
1"=50'

Property of COLUMBIA INDUSTRIAL DEVELOPMENT CORPORATION
T.M.#48 P#18

MANHOLE TABLE

NO.	STATION	DIET.	DIM.	SLOPE
ANNAPOLIS JUNCTION ROAD				
MH#1	1+4.46	18' RT	EX.G20	----
MH#2	1+3.15	17' RT	EX.G20	----
MH#3	0+0.00	23' RT	EX.G20	----
IRON BRIDGE ROAD				
MH#4	2+20	7' LT	109.15	+1.5%
MH#5	4+07	7' LT	107.72	+1.0%
MH#6	COURT	----	----	----
RIGGS HILL ROAD				
MH#7	2+07	7' LT	104.01	+2.76%
MH#8	4+41	7' LT	105.02	+1.76%
MH#9	6+00	5' LT	108.50	+3.50%
MH#10	COURT	----	207.6	----

PLAN
1"=50'

CONTRACT NO. 24-1234 D
CORRIDOR NORTH
WATER AND SEWER EXTENSION
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Director of Public Works: [Signature] DATE: 9-1-84
 Chief, Bureau of Engineering: [Signature] DATE: []
 Chief, Bureau of Utilities: [Signature] DATE: 8-27-84
 Chief, Land Development Division: [Signature] DATE: []

FISHER, COLLINS, AND CARTER, INC.
CONSULTING ENGINEERS AND LAND SURVEYORS
8388 COURT AVENUE
ELLCOTT CITY, MARYLAND 21043

[Signature]
TERRELL R. FISHER DATE: []

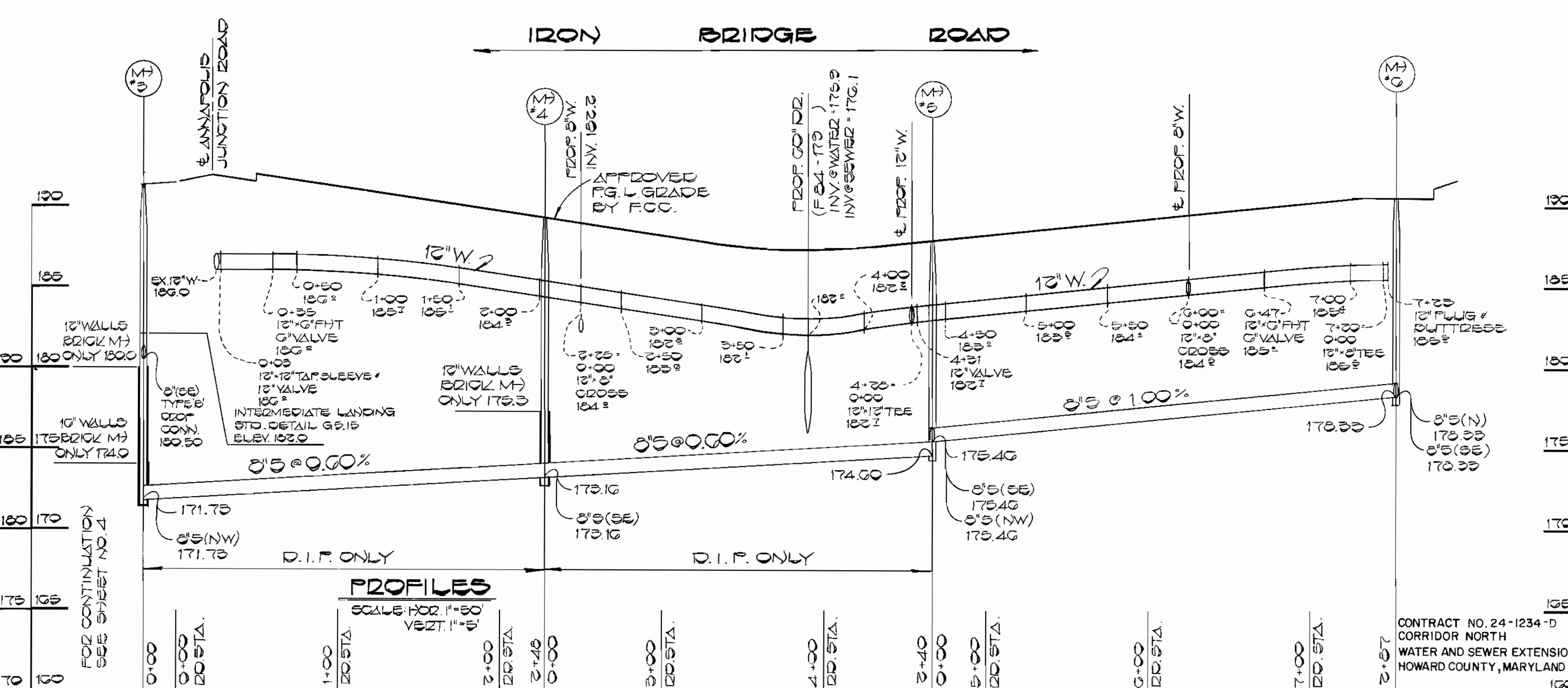
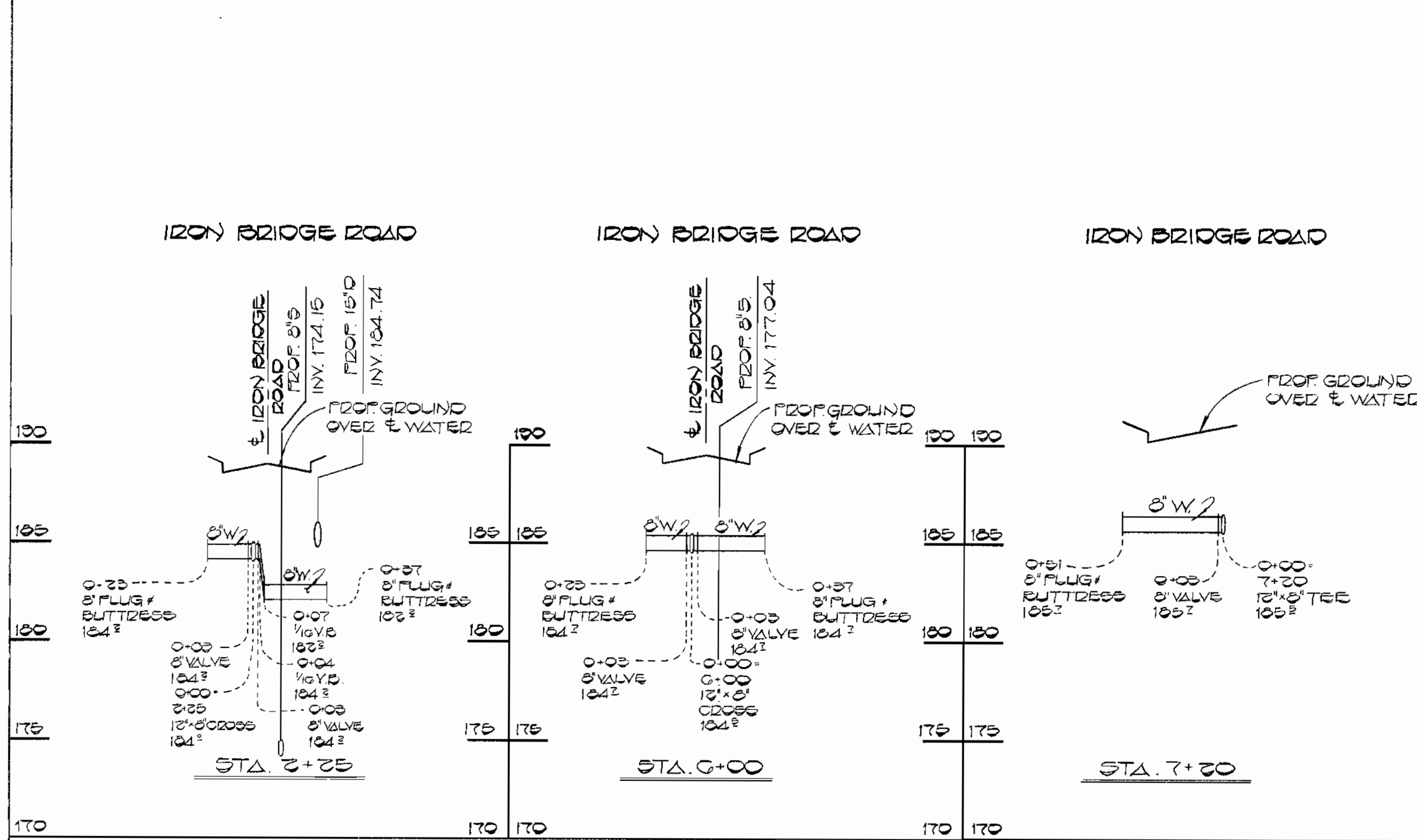
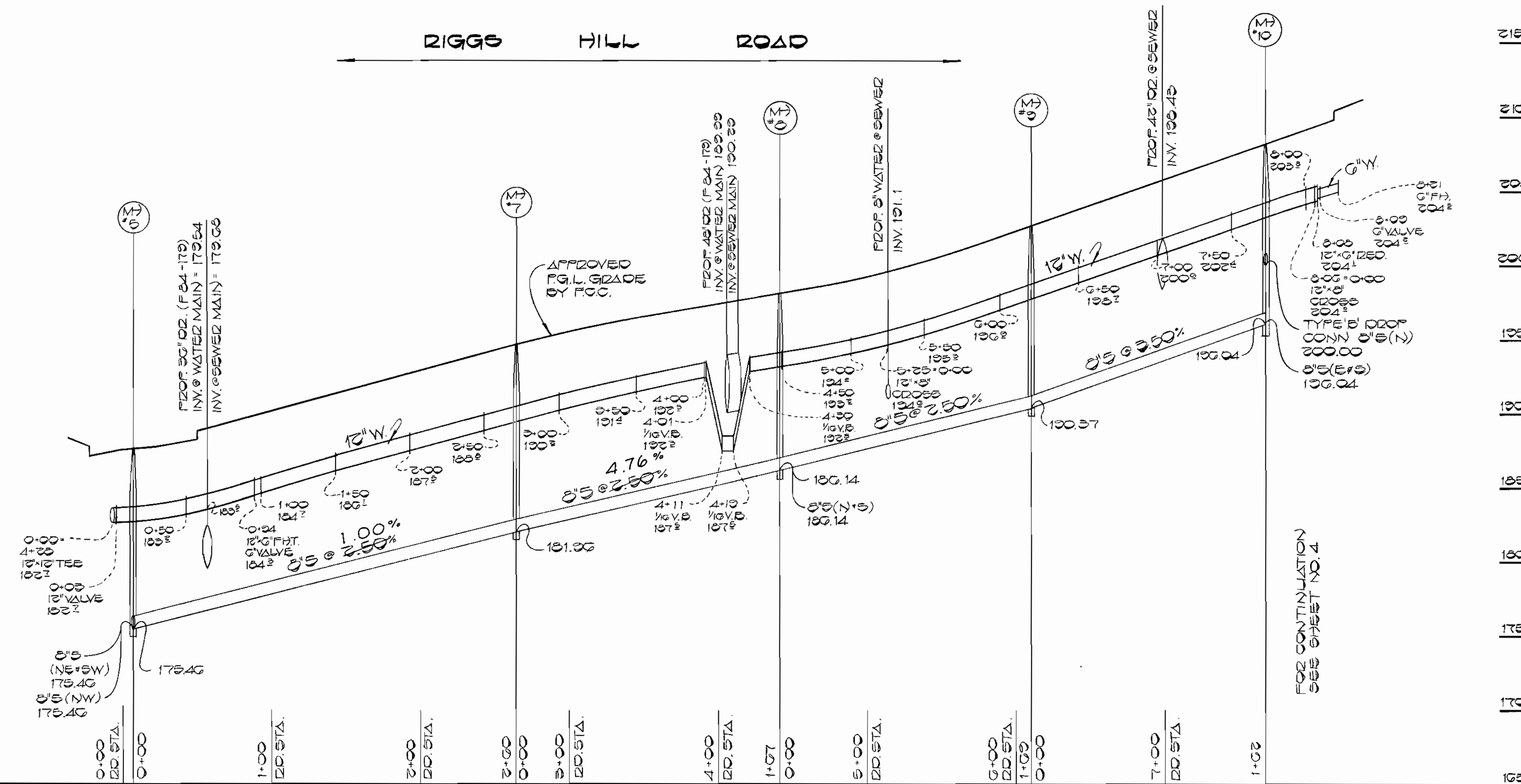
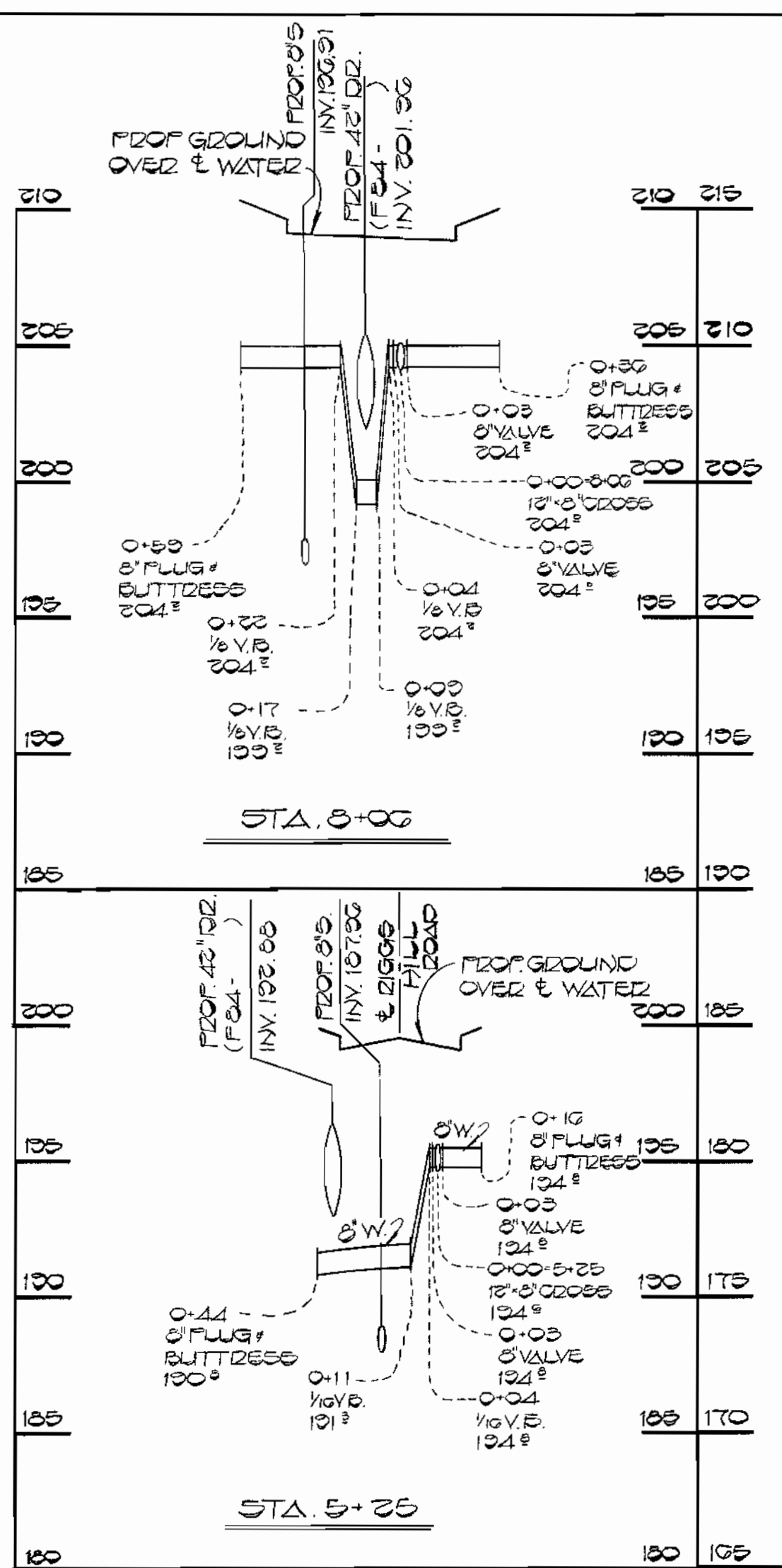
DES: D.B.S.	DEV: []	Eliminated 8" W Service to Parcel 'B'	11/10/85
DRN: D.B.S.			
CHK: T.A.F.			
DATE:	BY:	NO.	REVISION

PLAN
WATER AND SEWER MAINS

600' SCALE MAP NO. 48 BLOCK NO. []

CORRIDOR NORTH
CONTRACT NO. 24-1234 - D
SIXTH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
SHEET 3 OF 4



DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Director of Public Works: *[Signature]* DATE: 9-7-84
Chief, Bureau of Engineering: *[Signature]* DATE: 9-7-84
Chief, Bureau of Utilities: *[Signature]* DATE: 9-7-84
Chief, Land Development Division: *[Signature]* DATE: 9-7-84

FISHER, COLLINS, AND CARTER, INC.
CONSULTING ENGINEERS AND LAND SURVEYORS
8388 COURT AVENUE
ELLCOTT CITY, MARYLAND 21043

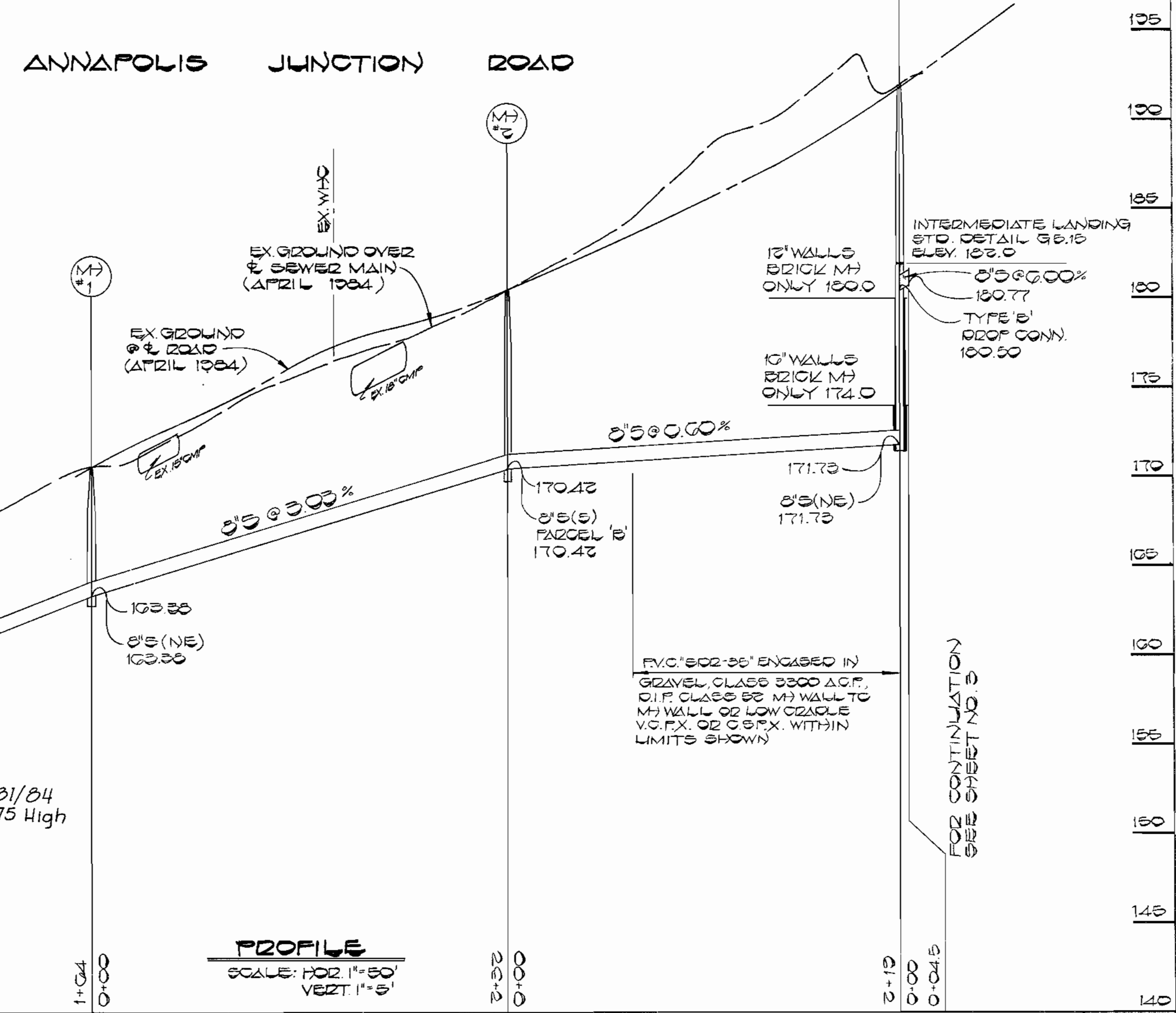
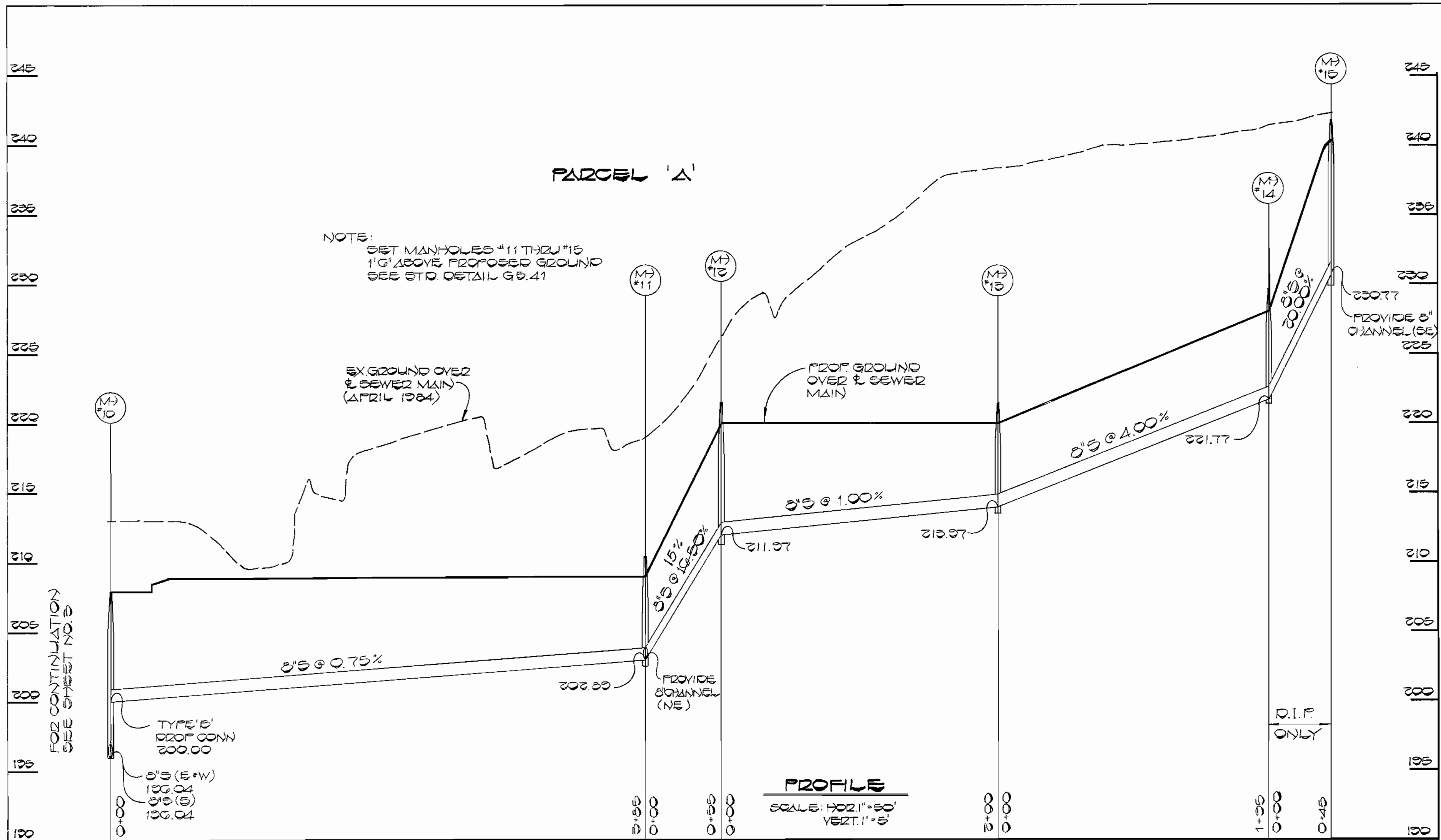
[Signature] DATE: 9-7-84
TERRELL A. FISHER

DES: D.B.S.	REV: 1	Eliminated 8" W Service to Parcel B	11/1/85
DRN: D.B.S.			
CHK: T.A.F.			
DATE:	BY:	NO.	REVISION

PROFILES	
WATER MAINS	
600' SCALE MAP NO.	BLOCK NO.

CORRIDOR NORTH
CONTRACT NO. 24-1234-D
SIXTH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
SHEET 2 OF 4



DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

[Signature] DATE *8-21-84*
DIRECTOR OF PUBLIC WORKS

[Signature] DATE
CHIEF, BUREAU OF ENGINEERING

[Signature] DATE
CHIEF, LAND DEVELOPMENT DIVISION

CHIEF, BUREAU OF UTILITIES

FISHER, COLLINS, AND CARTER, INC.
CONSULTING ENGINEERS AND LAND SURVEYORS

8388 COURT AVENUE
ELLCOTT CITY, MARYLAND 21043

461-2855

STATE OF MARYLAND
TERRELL A. FISHER
REGISTERED PROFESSIONAL ENGINEER
NO. 9751

DES: D.B.S.	
DRN: D.B.S.	
CHK: T.A.F.	
DATE:	
BY:	
NO.	
REVISION	
DATE:	

PROFILE
SEWER MAINS

600' SCALE MAP NO. _____ BLOCK NO. _____

CORRIDOR NORTH
CONTRACT NO. 24-1234-D
SIXTH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
SHEET 4 OF 4