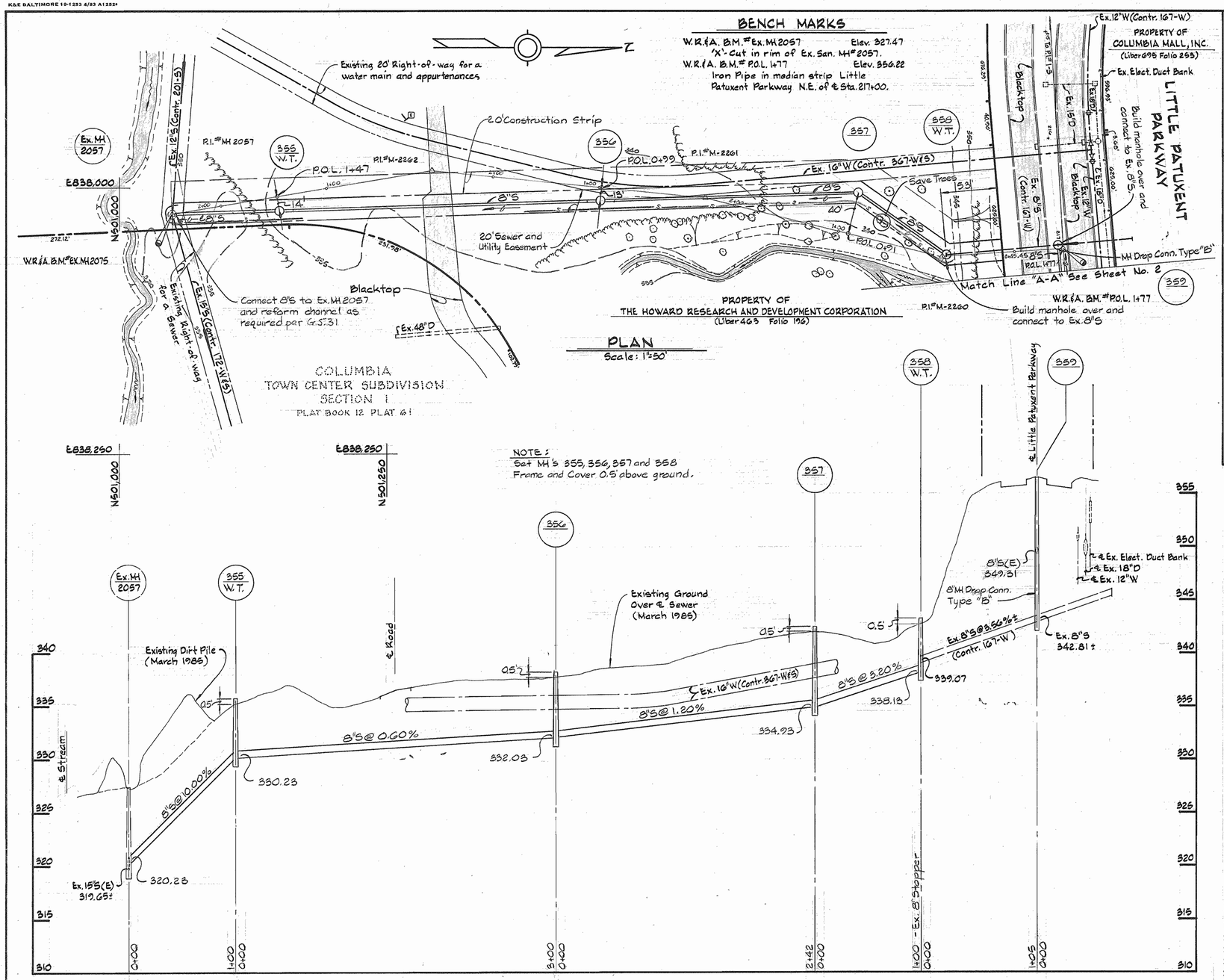
K&E BALTIMORE 10-1253 4/83 A1252*

BENCH MARKS

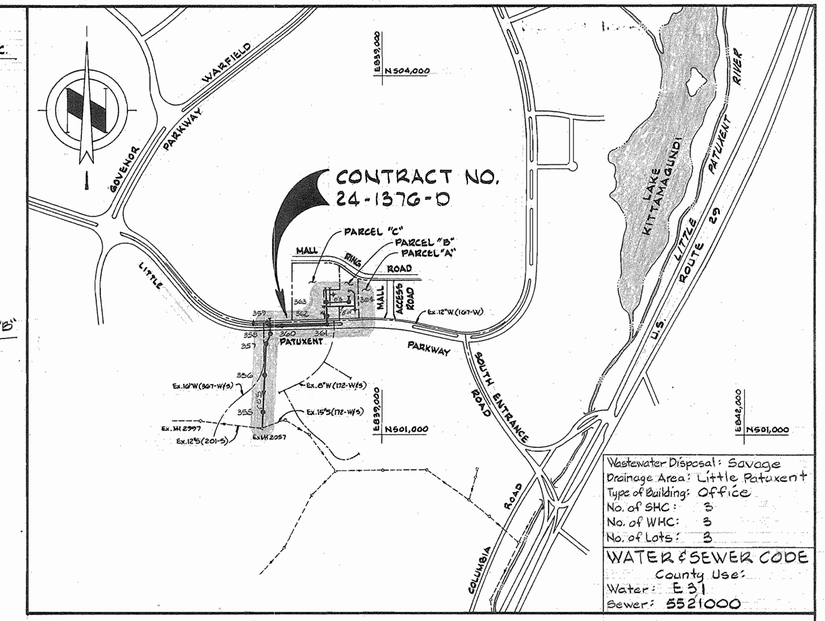
W.R.&A. B.M.#Ex.MH2057 Elev. 327.47
'X'-Cut in rim of Ex. San. MH#2057.
W.R.&A. B.M.#P.O.L. 1+77 Elev. 356.22
Iron Pipe in median strip Little Patuxent Parkway N.E. of ℄ Sta. 217+00.



PLAN
Scale: 1"=50'

NOTE:
Set MH's 355, 356, 357 and 358 Frame and Cover 0.5' above ground.

PROFILE
Scale: H: 1"=50' V: 1"=5'



Wastewater Disposal: Savage
Drainage Area: Little Patuxent
Type of Building: Office
No. of SHC: 3
No. of WHC: 3
No. of Lots: 3

WATER & SEWER CODE
County Use:
Water: E31
Sewer: 5521000

VICINITY MAP
Scale: 1"=600'

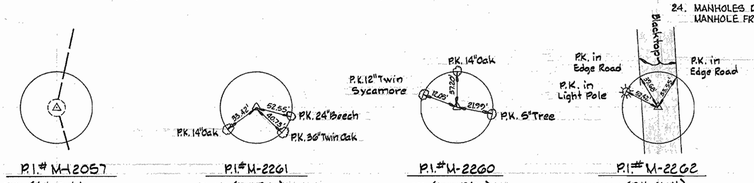
GENERAL NOTES

1. 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.
2. ALL HORIZONTAL CONTROLS ARE BASED ON MARYLAND STATE COORDINATES.
3. ALL VERTICAL CONTROLS ARE BASED ON U.S.G.S. DATUM.
4. ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
5. CLEAR ALL UTILITIES BY A MINIMUM OF 6". CLEAR ALL POLES BY 2'-0" MINIMUM OR TUNNEL AS REQUIRED.
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 CONSTRUCTION. THE CONTRACTOR SHALL HAVE A COPY OF VOLUME IV ON THE JOB.
7. 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. TEST PIT SYMBOL
8. CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:
   - STATE HIGHWAY ADMINISTRATION - 531-5533
   - BALTIMORE GAS AND ELECTRIC CO. - CONTRACTOR SERVICES 561-2585
   - BALTIMORE GAS AND ELECTRIC CO. - UNDER GROUND DAMAGE CONTROL - 234-5621
   - BALTIMORE GAS AND ELECTRIC CO. - TROUBLE SHOOTING - 298-9013
   - MISS UTILITY - 1 - 559-0100
   - COLONIAL PIPELINE CO. - 795-1390
   - BUREAU OF UTILITIES, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS - 992-2366
9. 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.
10. CONTRACTOR SHALL REMOVE TREES, STUMPS AND ROOTS ALONG LINE OF EXCAVATION.
11. ALL WATER MAINS TO BE D.I.P. UNLESS OTHERWISE NOTED.
12. TOPS OF ALL WATER MAINS TO HAVE A MINIMUM OF 3-1/2' COVER UNLESS OTHERWISE NOTED.
13. VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.
14. ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH THE STANDARD DETAILS UNLESS OTHERWISE PROVIDED FOR ON THE DRAWINGS.
15. FIRE HYDRANTS 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 SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 1003 THE STANDARD SPECIFICATIONS.
16. THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.
17. ALL WATER HOUSE CONNECTIONS SHALL BE FOR AN INSIDE METER SETTING, UNLESS OTHERWISE NOTED.
18. ~~ALL W.H.C.'S SHALL BE UNLESS OTHERWISE NOTED.~~
19. ALL COPPER WATER HOUSE CONNECTIONS SHALL UTILIZE FLARED FITTINGS.
20. 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.
21. THE CONTRACTOR SHALL PROVIDE A JOINT IN ALL SEWER MAINS WITHIN 2'-0" OF EXTERIOR MANHOLE WALL.
22. ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER UNLESS OTHERWISE NOTED.
23. STRAW BALE DIKE AND SILT FENCE ARE INTERCHANGEABLE.
24. MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATERTIGHT FRAME AND COVERS, STANDARD DETAIL G5.62 WHERE WATERTIGHT MANHOLE FRAME AND COVER IS USED SET TOP OF FRAME 0.5' ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENT
James McKelvin 8-1-85
SIGNATURE DATE
U.S. SOIL CONSERVATION SERVICE

This Development Plan is approved for Soil Erosion and Sediment Control by the Howard County Conservation District.
APPROVED:
Stephen L. Huber 8/1/85
HOWARD S.C.D. DATE

Sediment Control Measures for this Contract will be implemented in accordance with Article 15 of the Standard Specifications and Road Construction Plans F-85-145.



SG, 501-839

QUANTITIES

ITEM		BID	AS-BUILT	MATERIAL/SUPPLIER
8" Sewer	L.F.	1020	1766	J.H. Corp. / Belair Rd. Supply
Manholes	Ea.	10	10	Atlantic Precast Concrete Corp
8" Water	L.F.	440	438	Griffin Pipe Products
6" Water	L.F.	20	150	Griffin Pipe Products
8" Valve	Ea.	3	3	U.S. Pipe / Belair Rd. Supply
6" V (Excluding F.H.)	Ea.	3	3	U.S. Pipe / Belair Rd. Supply
12"x8" T.S.&V.	Ea.	1	1	U.S. Pipe / Belair Rd. Supply
8" SHC	L.F.	120	187	J.H. CORP. / BELAIR RD. SUPPLY
6" WHC	L.F.	150	151	griffin pipe products
Fire Hydrants	Ea.	2	2	U.S. Pipe / Belair Rd. Supply

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
Robert W. Bowen / for GFN 8-5-85
DIRECTOR OF PUBLIC WORKS — DATE
Robert W. Wood / for RWW 8/5/85
CHIEF-BUREAU OF UTILITIES — DATE
Richard E. Ray 8/5/85
CHIEF-BUREAU OF ENGINEERING — DATE
8-5-85
CHIEF-LAND DEVELOPMENT DIVISION — DATE

WHITMAN, REQUARDT AND ASSOCIATES
ENGINEERS
2315 ST. PAUL ST.
BALTIMORE, MARYLAND

STATE OF MARYLAND — HAN-EH.A. MCCORD — 1973 — REGISTERED PROFESSIONAL ENGINEER & LAND SURVEYOR

DES: S.J.
DRN: J.R.K.
CHK: R.B.N.
DATE: 7/16/85

BY	NO.	REVISION	DATE

PLAN AND PROFILE OF SEWER MAINS
600' SCALE MAP NO. 38 BLOCK NO. 1

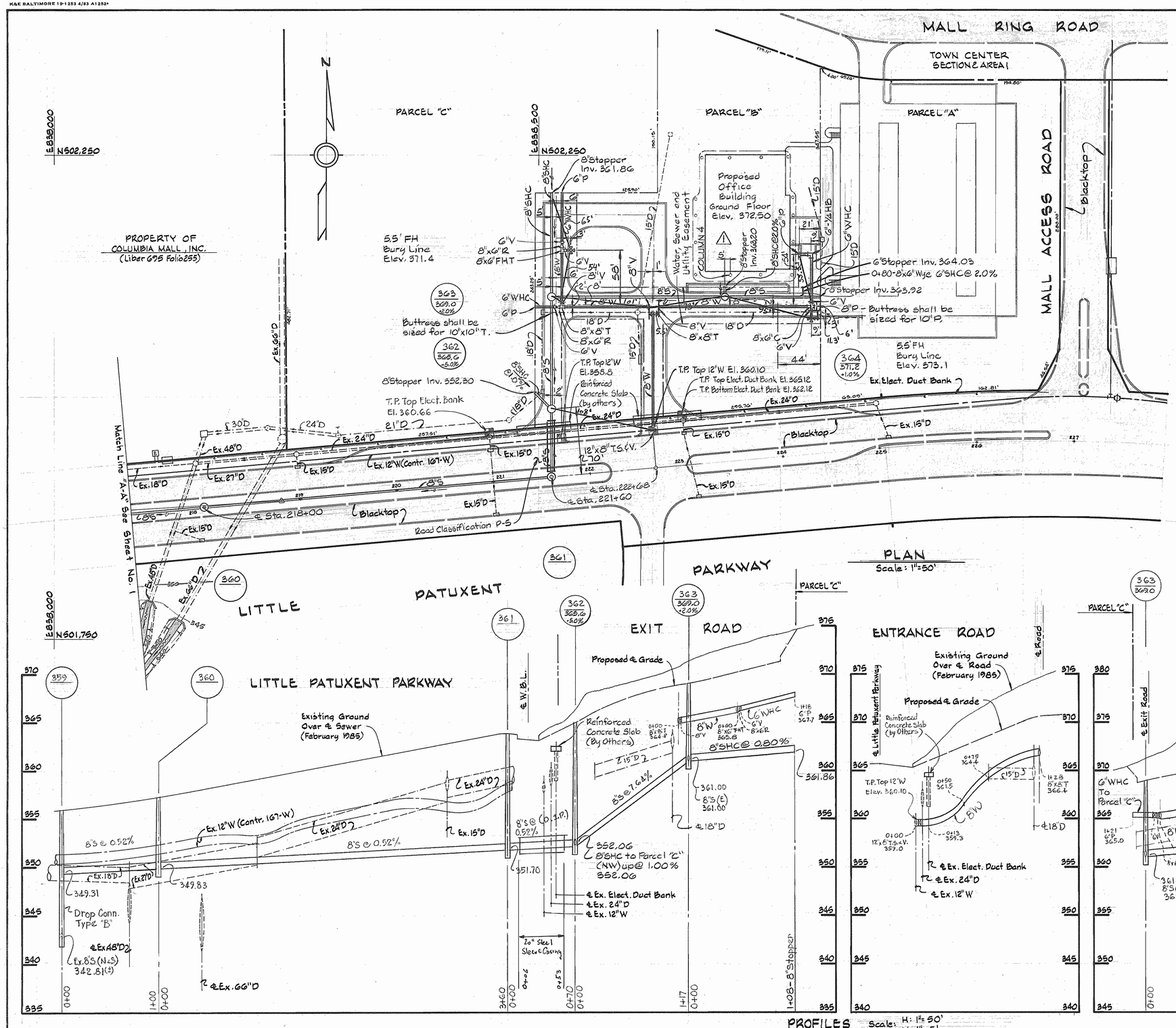
COLUMBIA TOWN CENTER
SECTION 2 AREA I & AREA 5
PARCELS A, B & C
ELECTION DISTRICT GUILFORD NO. 5
CONTRACT NO. 24-1376-D

SCALE AS SHOWN
SHEET 1 OF 2

W.O. 40182

3/11/88 AS-BUILT JULY 30, 1985

K&E BALTIMORE 19-1253 4/83 A1252*

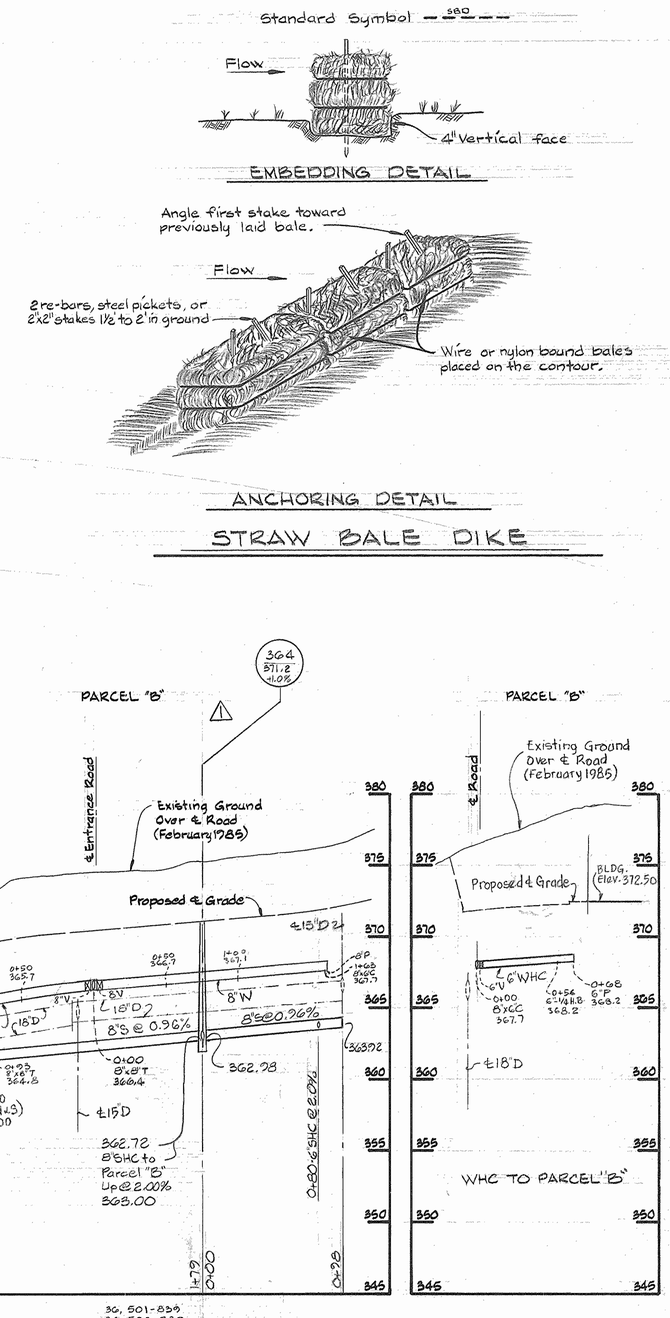


PLAN
Scale: 1"=50'

PROFILES Scale: H: 1"=50' V: 1"=5'

BENCH MARKS

W.R.&A. BM# Ex. MH 2057 Elev. 327.47
"X"- Cut in rim of Ex. San. MH# 2057
W.R.&A. BM# P.O.L. 1+77 Elev. 356.22
Iron pipe in median strip Little Patuxent Parkway N.E. of ℄ Sta. 217+00.



STRAW BALE DIKE

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND Robert M Bennigs for GFN 8-5-85 — DIRECTOR OF PUBLIC WORKS — DATE Robert W Wood / for RMB 8/5/85 — CHIEF-BUREAU OF UTILITIES — DATE Wilhelmina E Riley 8/5/85 — CHIEF-BUREAU OF ENGINEERING — DATE [signature] — CHIEF-LAND DEVELOPMENT DIVISION — DATE	WHITMAN, REQUARDT AND ASSOCIATES ENGINEERS 2315 ST. PAUL ST. BALTIMORE, MARYLAND	DES: S.J. DRN: J.R.K. CHK: R.B.N DATE: 7/16/85	JRK / 1 / Moved MH 364 / 1/2/86 BY / NO. / REVISION / DATE	PLAN AND PROFILE OF WATER & SEWER MAINS 600' SCALE MAP NO. 36 BLOCK NO. 1	COLUMBIA TOWN CENTER SECTION 2 AREA 1 & AREA 5 PARCELS A, B & C ELECTION DISTRICT GUILFORD NO. 5 CONTRACT NO. 24-1376-D

SCALE AS SHOWN

SHEET 2 OF 2

W.O. 40128 3/11/88 AS-BUILT JULY 30, 1985