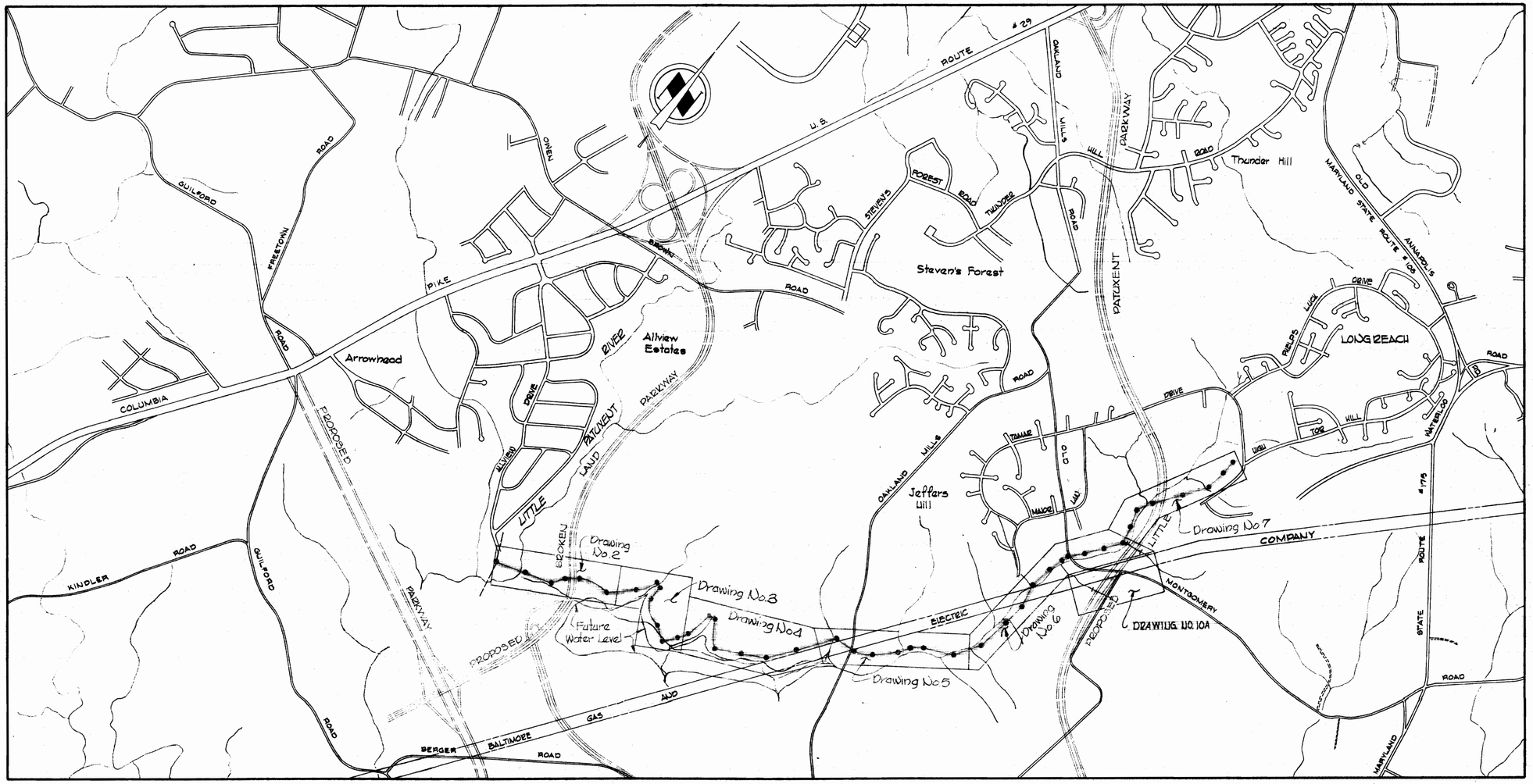


CONTRACT C-326-S

LONG REACH INTERCEPTOR

HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS

CERTAIN TEED A.C.P. USED EXCEPT MH 4447-A to MH 4448
PRECAST MH'S USED
STAKEOUT: FB. #4884
DIARY: #4875, #4884, #5048

STATE OF MARYLAND
KENNETH A. McCORD
1974
PROFESSIONAL ENGINEER & LAND SURVEYOR
REGISTERED ENGINEER & LAND SURVEYOR

Kenneth A. McCord

Long Reach Interceptor
Cont. # C-326-S

WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND 9-21-70 DATE W O Gilbert CHIEF-BUREAU OF WATER AND SEWER	CONTRACT NO. C-326-S	LOCATION MAP	COLUMBIA LONG REACH INTERCEPTOR ELECTION DISTRICT GUILFORD NO. 6	DRAWING NO. 1 OF 10	SCALE 1"=1200'

W. O. 6028-2

APRIL 17, 1972 AS BUILT

suspense

suspense

WS 326-S/1

GENERAL NOTES

1. Approximate location of existing mains are shown. The Contractor shall take all necessary precautions to protect existing and services and maintain uninterrupted supply. Any damage incurred shall be repaired immediately.
2. All pipe elevations shown are invert Ⓘ elevations.
3. The Contractor shall locate existing utilities a minimum of two weeks inadvance of construction operations in vicinity of utilities.
4. For all standard details see standards bound in Specifications.
5. Clear all utilities by a minimum of 6", clear all poles by 2'-0" minimum, or tunnel as required.
6. The Contractor shall provide a joint in all sewer mains within 2'-0" of exterior manhole walls.
7. All horizontal and vertical controls are based on Maryland State Datum.
8. All sewer pipe shall be of Classes as shown on profiles.
9. Cost of Poly Filter X and Rip-Rap to be included in the unit price bid for furnishing and laying of sewer main
10. All manholes shall be 4'-0" inside diameter unless otherwise noted.

Curve #1
Δ=42°15'45"
R=215.00'
T= 91.84'
L=173.60'
D=26°38'57"

QUANTITIES	
Item	Quantity
12" Sewer	700 LF
15" Sewer	3640 LF
18" Sewer	1230 LF
21" Sewer	580 LF
24" Sewer	9800 LF

Ex. MH 1935
Ex. 30" SD
Connect to Ex. 24" SD
Connect to Existing 24" Channel
20' Right of Way
Encase in Concrete Sta. 4+07 to 4+72
10' Construction Strips
Pl.#S-91
W.&A. BM#23
Elev. 277.18
B.B. Spike on side of 18" Oak, 20' right of Sta. 2+47 Between Pl.# S-90 and Pl.#S-91. Approximately 10' from river bank.
LITTLE PATUXENT RIVER
Rip Rap
For Rip Rap Detail see Drawing No. 10
8" Channel
Pl.#W-316
Future Sewer
For Profile See Drawing No. 8
Property of HOWARD RESEARCH AND DEVELOPMENT CORPORATION
Pl.#W-317
Match Line "A-A" See Title Drawing
6" Beech
24" Oak
30" Oak
Pl.#S-91
14" Poplar
16" Oak
6" Oak
Pl.#W-316
12" Poplar
6" Poplar
6" Wild Cherry
Pl.#W-317
N 491,000
E 842,000
Spur Pl.#W-319-C
Pl. Curve #1
Pl.#W-321
Pl.#W-319-B
8" Channel
10' Construction Strips
P.C. at Sta. 2+48.14
P.O.T. 2+00
20' Right of Way
Future Sewer
Match Line "B-B" See Drawing No. 3
Pl.#W-318
5' Diameter MH
15" Channel
Pl.#W-319
Pl.#W-319-A
Pl.#W-320
PROPOSED BOWLEY
E.B.L.
W.B.L.
LAND PARKWAY
Proposed 2 cell - 10'x12' Box Culvert (by others)
Proposed Dam (by others)
W.L. 295.0
Future Water Level Elev. 295.0
W.&A. BM#W-82
Elev. 278.66
Galvanized Boot Spike in side of 1' diameter Fence Post, 63'± right
Pl.# W-319
18" Poplar
8" Oak
6" Wild Cherry
Pl.#W-318
Fence Post
10" Wild Cherry
Fence Post
Pl.#W-319
N 844.75
E 490,750
No Δ Reference Available
Pl.#W-320
No Δ Reference Available
Pl.#W-321
N 489,200
E 843,800
Property of HOWARD RESEARCH AND DEVELOPMENT CORPORATION
STATE OF MARYLAND KENNETH A. McCORD 1974 REGISTERED PROFESSIONAL ENGINEER & LAND SURVEYOR

Long Reach Interceptor
Contract No. 326-S

WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND 9-21-70 DATE W O Pollard CHIEF-BUREAU OF WATER AND SEWER	CONTRACT NO. C-326-S	PLAN OF SEWER MAINS	COLUMBIA LONG REACH INTERCEPTOR ELECTION DISTRICT GUILFORD NO. 6	DRAWING NO. 2 OF 10	SCALE 1"=50'

W. O. 6023-2

APRIL 17, 1972 AS BUILT F.B.# 4547, 4563

E. K. ELLIOTT CO., PGH., PA. REORDER A-11827

P.I.#320-A

P.I.#W-320-B

P.O.T. 1+00

64'

90'

P.I.#W-323

To P.I.#W-324

Match Line "B-B" See Drawing No. 2

24'S

4434

108'

221'

10' Construction Stripe

20' Right of Way

PC#2 Sta 1+36.25±

PT#2 Sta. 3+21.85±

4435

Future 8"S

11.71

45°

10.02

10.34

8" Channel

4436

P.O.T. 5+00

Encase in Concrete ACP

For Profile See Drawing No. 8

P.I. Curve# 2

Future Water Level (Elev. 295.0)

Curve#2
Δ=49°27'38"
R=215.00'
T= 99.03'
L=185.60'
D=26°38'57"

Property of
HOWARD RESEARCH AND DEVELOPMENT CORPORATION,
and MAURICE E. DASHER and DORA V. DASHER
(LIFE ESTATE)

W.R.&A. B.M.#W-84
Galvanized Boat Spike in side of 12" Twin Oak, 20'± right of P.I.#W-325

Elev. 307.75

W.R.&A. B.M.#W-84

P.I.#W-325

4437

38'

45'

12" Poplar
10" Oak
12" Twin Oak

P.I.#W-325

Match Line "C-C" See This Drawing

P.I.#W-329

PT#3 Sta 5+39.71

PC#3 Sta 5+02.04

24.71'S

51'

P.O.T. 3+00

4438

844,750E

491,750N

Future Water Level (Elev. 295.0)

Curve#4
Δ=37°00'40"
R=215.00'
T=143.06'
L=364.03'
D=26°38'57"

Spur P.I.#W-330-A

36'

28'

P.I. Curve # 4

For Profiles See Drawing No. 8

Property of
HOWARD RESEARCH AND DEVELOPMENT CORPORATION,
and MAURICE E. DASHER and DORA V. DASHER
(LIFE ESTATE)

Future Water Level (Elev. 295.0)

W.R.&A. B.M.#W-85

Elev. 307.28

Galvanized Boat Spike in root of 12" Poplar, 20'± west of P.I.#W-330.

P.I.#W-330

P.I.#W-331

P.I.#W-332

P.I.#W-333

P.I.#W-326

P.I.#W-328

P.I.#W-327

P.I.#W-329

4439

Future Sewer

Encase in Concrete Sta. 0+02 to 0+37

8" Channel

25'

51'

50'

61'

PT#4 Sta 4+48.04

PC#4 Sta 4+09.98

24.71'S

16.87'

Fill required, see detail, Drawing No. 10

P.I. Curve#5

PT#5 Sta. 1+80.32

Curve#5
Δ=24°18'49"
R=215.00'
T= 46.32'
L= 91.24'
D=26°38'57"

10' Construction Strips

20' Right of Way

24.71'S

54'

74'

4440

Match Line "D-D" See Drawing No. 4

Curve#3
Δ=21°38'25"
R=430.00'
T= 82.18'
L=162.41'
D=13°19'29"

Spur P.I.#W-330-B

PC#8 Sta 3+71.80

P.I. Curve#3

PT#4 Sta 4+50

45'

Match Line "C-C" See This Drawing

848,750E

492,000N

16" Maple 24.4" 12" Oak 6" Poplar 22.9" 21.7'

6" Poplar 12" Poplar 12" Poplar 25.53" 20.0'± 41.5'

12" Poplar BM#W-85 22.6" 6" Poplar 23.0" 6" Poplar

4" Oak 16.6" 6" Oak 13.10" 5.95" 8" Poplar

8" Beach 24.6" 10.50" 6" Oak 11.18" 10" Oak

10" Oak 13.90" 23.8" 16.4" 24" Beach 4" Maple

6" Dead Oak 21.9" 6" Poplar 33.0" 6" Poplar

STATE OF MARYLAND
KENNETH A. McCORD
1974
REGISTERED
PROFESSIONAL ENGINEER & LAND SURVEYOR

Kenneth A. McCord

492,000N 845,750E

Long Reach Interceptor
Contract No. 326-S

WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND 9-21-70 (DATE) W O Falbert (CHIEF–BUREAU OF WATER AND SEWER)	CONTRACT NO. C-326-S	PLAN OF SEWER MAINS	COLUMBIA LONG REACH INTERCEPTOR ELECTION DISTRICT GUILFORD NO. 6	DRAWING NO. 3 OF 10	SCALE 1"= 50'	491-483 492-483,484

W. O. 6028-2

APRIL 17, 1972 AS BUILT

F.B.# 4553, 4554, 4560, 4547

Suspense

K. ELLIOTT CO., PGH., PA. REORDER A-11627

Suspended

Suspended

Suspended

WS 326-S/4

Spur P.I.#W-337-A

No △ Reference Available. P.I.#336

20" Poplar
12" Hickory
Iron Post
P.I.#335

4442

Future 8"S

4443

WETT in Top Wood Fence Posts
P.I.#W-337

P.I.#W-337

W.B.&A. B.M.#W-87 Elev. 317.11
Galvanized Boat Spike in root of 4" Oak, 30'± right of P.I.#W-339

Property of HOWARD RESEARCH AND DEVELOPMENT CORPORATION, and MAURICE E. DASHER and DORA V. DASHER (LIFE ESTATE)

Match Line "E-E" See This Drawing

8" Channel

P.I.#W-336

692,750 N
845,750 E

Curve #6
Δ=13°22'55"
D= 430.00'
T= 50.45'
L= 100.44'
D=13°19'29"

P.I. Curve #6

Spur P.I.#W-337-B

Spur P.I.#W-337-C

Spur P.I.#W-337-D

Future Sewer

692,500 N
847,000 E

12" Oak
16" Oak
6" Oak
P.I.#W-338

4" Beech
4" Hickory
4" Oak
B.M.#W-87
P.I.#W-339

12" Poplar
8" Dogwood
8" Oak
P.I.#W-340

12" Oak
4" Hickory
12" Oak
P.I.#W-341

Encase in Concrete
Sta. 0+11 to 0+43

Pvt. 6 Sta. 5+88.10

P.I.#W-338

For Profile See Drawing No. 9

P.I.#W-340

P.I.#W-339

W.B.&A. B.M.#87

Spur P.I.#W-339-B

PC #6 Sta. 2+32.66

PC #7 Sta. 2+88.20

P.O.T. 2+00

P.O.T. 1+00

P.O.T. 2+40

8" Channel

10' Construction Strip

20' Right of Way

Stone #111

Future Water Level (Elev. 295.0)

2:1 Slope

Dirt Fill

Pvt. #8 Sta. 0+60.95

PC #8 Sta. 0+16.55

PT #7 Sta. 5+62.50

4445

Property of THE BALTIMORE GAS and ELECTRIC COMPANY

STATE OF MARYLAND
KENNETH A. McCORD
1974
REGISTERED PROFESSIONAL ENGINEER & LAND SURVEYOR

Kenneth A McCord

Curve #7
Δ= 72°51'12"
D= 215.00'
T= 158.67'
L= 274.10'
D=26°38'57"

Curve #8
Δ= 45°59'22"
D= 430.00'
T= 182.04'
L= 344.40'
D= 13°19'29"

P.I. Curve #7

P.I. Curve #8

Spur P.I.#W-339-A

4444

Future Water Level (Elev 295.0)

P.I.#W-335

4441

W.B.&A. B.M.#W-86

P.I.#W-334

Match Line "D-D" See Drawing No. 3

Fill required, see detail drawing No. 10. Build channel with 2:1 side slopes to provide positive drainage.

Property of IRVIN P. DASHER, GRACE M. DASHER, GEORGE H. DASHER and H. MARIE DASHER

12" Walnut
8" Beech
12" Oak
P.I.#W-342

24" Twin Oak
30" Beech
6" Sycamore
P.I.#W-343

Property of HOWARD RESEARCH AND DEVELOPMENT CORPORATION, and MAURICE E. DASHER and DORA V. DASHER (LIFE ESTATE)

847,250 E
493,250 N

For Profile See Drawing No. 9

4447

W.B.&A. B.M.#W-88

Note: Walnut trees in this area shall be tunneled

4441½

P.I.#W-342

P.I.#W-343

P.I.#W-344

20' Right of Way

Ex. 12" Gas

Ex. 12" W

Blacktop

P.O.T. 3+00

3/4" Electric Cable

Springhouse

Match Line "F-F" See Drawing No. 5

Match Line "E-E" See This Drawing

20" Poplar
B.M.#W-86
24" Poplar
14" Poplar
P.I.#W-333

W.B.&A. B.M.#W-86 Elev. 303.88
Galvanized Boat Spike in side of 24" Oak, 10'± East of P.I.#W-333.

847,000 E
492,500 N

Property of THE BALTIMORE GAS and ELECTRIC COMPANY

Tower No. 25W

Future Tower

B.M.#W-88
30" Oak
12" Walnut
P.I.#W-344

W.B.&A. B.M.#W-88 Elev. 327.71
Galvanized Boat Spike in root of 30" Oak, 75'± North of P.I.#W-334.

WETT in top of Wood Fence Posts.
P.I.#W-345

Long Reach Interceptor Contract No. 326-S

WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND 9-21-70 (DATE) W O Fullwood (CHIEF—BUREAU OF WATER AND SEWER)	CONTRACT NO. C-326-S	PLAN OF SEWER MAINS	COLUMBIA LONG REACH INTERCEPTOR ELECTION DISTRICT GUILFORD NO. 6	DRAWING NO. 4 OF 10 SCALE 1" = 50' 492-484,485 493-483

W. O. 6023-2

APRIL 17, 1972 — F.B. 4547, 4560, AS BUILT 4553

Property of
HOWARD RESEARCH AND DEVELOPMENT CORPORATION,
and MAURICE E. DASHER and DORA V. DASHER
(LIFE ESTATE)

Property of
IRVIN P. DASHER, GRACE M. DASHER,
GEORGE H. DASHER and H. MARIE
DASHER

Property of
THE BALTIMORE GAS and ELECTRIC COMPANY

Property of
HOWARD RESEARCH AND DEVELOPMENT CORPORATION
and HENRY J. W. SIELING (LIFE ESTATE)

Property of
HOWARD RESEARCH AND DEVELOPMENT CORPORATION
and HENRY J. W. SIELING (LIFE ESTATE)

No △ Reference Available
Pl.#W-346

Nail set in top of Wood Fence Posts.
Pl.#W-347
Pl.#W-348

Pl.#W-346

Pl.#W-347

Pl.#W-348

Pl.#W-348-A

Pl.#W-349

Pl.#W-350

Pl.#W-348-B

Future Sewer

Heavy Wall Pipe Required (RCP) Encase in Concrete V.C.P.X & A.C.P. only

20' Right of Way

20' Construction Strip

Ex. 12" Gas

8" Channels & Future Sewer

Proposed 16"W to be built under Contract No. 383-W

Ex. G & E Underground Power Lines

BARN

Tower No. 24W

Pl.#S-18 (R&J)

Tower No. 24E

Ex. 2.6" C&P Telephone Cable &c

Ex. 30"D

Ex. 27"D

Ex. 24"D

Encase in Concrete Sta. 2+67 to 3+55

Encase in Concrete, Sta 4+98 ~~to Sta~~ 5+50

Curve # 9
Δ= 41°11'30"
D= 215.00'
T= 80.80'
L= 154.57'
D= 26°38'57"

Curve #10
Δ= 32°33'54"
D= 430.00'
T= 125.60'
L= 244.40'
D= 13°19'29"

PC #9 Sta 0+00

PT #9 Sta 1+54.57

PC #10 Sta 2+41.51

PT #10 Sta 4+85.92

P.I. Curve #9

P.I. Curve #10

POT 4+00

POT 3+00

POT 2+50

POT 2+00

POT 1+50

POT 1+00

For Profile See Drawing No. 9

Match Line "F-F" See Drawing No. 4

Match Line "G-G" See This Drawing

Match Line "H-H" See Drawing No. 6

5' Diameter Manhole See Detail Drawing No. 10

OAKLAND MILLS ROAD

W.R.&A. BM#W-89 Elev. 905.06
Galvanized Boat Spike Base of G&E Pole #326495, 80'± Right of Pl.W-347

W.R.&A. BM#W-90 Elev. 318.78
Galvinized Boat Spike in root of 18" Oak, 125'± Left of Pl.#W-349

W.R.&A. BM#W-90

4447-A
4448
4449
4450
4451
4452
4453
4454

S 47.50° E 493.50' N

S 49.00° E 494.25' N

S 45.75° E 494.75' N

Rip-Rap

5' Channel

8" Channels

Future Sewer

10' Construction Strip

Suspend

WS 326-S/S

WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND 9-21-70 DATE CHIEF-BUREAU OF WATER AND SEWER	CONTRACT NO. C-326-S	PLAN OF SEWER MAINS	COLUMBIA LONG REACH INTERCEPTOR ELECTION DISTRICT GUILFORD NO. 6	DRAWING NO. 5 OF 10 SCALE 1"=50'

W. O. 6025-2

APRIL 17, 1972 AS BUILT

F.B.# 4553, 4560

Long Reach Interceptor
Contract No. 326-S

K. ELLIOTT CO., PGH., PA. REORDER A-11627

No.	Date	Revision
△		Deleted 10" Channel in Manhole 4458. Added Manhole 4458-A.

W.R.&A. BM.#W-91 Elev. 321.33
Galvanized Boot Spike in root of 18" Walnut Tree Left of Pl.#W-351

Property of
HOWARD RESEARCH AND DEVELOPMENT CORPORATION
and HENRY J.W. SIELING (LIFE ESTATE)

Property of
HOWARD RESEARCH AND DEVELOPMENT CORPORATION
and HENRY J.W. SIELING (LIFE ESTATE)

Property of
THE BALTIMORE GAS and ELECTRIC COMPANY

Property of
HOWARD RESEARCH AND DEVELOPMENT CORPORATION

Match Line "I-I" See Drawing No. 5

Match Line "I-I" See This Drawing

Match Line "J-J" See This Drawing

Match Line "K-K" See Drawing No. 7

For Profile See Drawing No. 9 & 10

For Profile See Drawing No. 9 & 10

See Drawing No. 10A

Future 10" Sewer to be Built under Contract No. C-326-W&S.

Future 8" Sewer to be built under Contract No. 326 W & S.

Future Sewer

Future 8" Sewer

20' Right of Way

10' Construction Strips

Proposed Drainage Ditch

Ex. 24" D

Ex. 12" D

Ex. 8" Channel

8" Channel

10" Channel

Ex. ¼" Copper Ground Wire 2'/-

Encase in Concrete Sta. 0+80 to 1+15

Filled Old Stream Bed

Relocated Stream

Top Bank

ROAD

MONTGOMERY

POT 5+00

POT 1+34

POT 2+00

POT 3+00

POT 10+00

Pl.#W-351

Pl.#W-352

Pl.#W-353

Pl.#W-354

Pl.#W-355

Pl.#W-356

Pl.#W-357

Pl.#W-358

W.R.&A. BM.#W-93 Elev. 335.86
2.2' Spike in root of 36" Sycamore 30'± Left of Pl.#W-355

W.R.&A. BM.#W-94 Elev. 342.40
2.2' Spike in root of 30" Beech, 16'± Left of Pl.#W-357

B.M.#W-91
18" Walnut

18" Triple Walnut

12" Locust

Tack & T.T. in side of Fence Posts

Tack in side of Fence Post

20" Quint Oak

10" Willow Oak

24" Twin Oak

B.M.#W-93
36" Sycamore

16" Triple Oak

24" Oak

20" Quadruple Oak

20" Twin Willow

B.M.#W-94
30" Beech

30" Oak

16" Beech

18" Oak

18" Oak

18" Oak

8" Locust

8" Locust

8" Locust

4455 4456 4457 4458 4458-A 4459 4460 4461 4462 4463 4464

STATE OF MARYLAND
KENNETH A. McCORD
1974
REGISTERED PROFESSIONAL ENGINEER & LAND SURVEYOR

Kenneth A. McCord

WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND 9-21-70 (DATE) W.O. Pollard (CHIEF—BUREAU OF WATER AND SEWER)	CONTRACT NO. C-326-S	PLAN OF SEWER MAINS	COLUMBIA LONG REACH INTERCEPTOR ELECTION DISTRICT GUILFORD NO. 6	DRAWING NO. 6 OF 10	SCALE 1" = 50'

Long Reach Interceptor Contract No. 326-S

W. O. 6023-2

APRIL 17, 1972 AS BUILT F.B.# 455A, 456

WS 326-S/6

Suspense

E. E. ELLIOTT CO., PGH., PA. REORDER A-11827

Match Line "K-K" See Drawing No 6

4466 — 4463 — 4464 — 4465 — 4467 — 4468 — 4469 — 4470 — 4471

Future Sewer

8" Channel

Encase in Concrete Sta. 0+44 to 0+70

R/P Rap

P.I.#W-362

P.I.#W-361

P.I.#W-360

For Profile See Drawing No. 10

W.R.&A. B.M.#W-95

B.M.W-95
18" Twin Poplar

W. R.&A. B.M.#W-95 Elev. 356.84
R.R. Spike in Base of 18" Twin Poplar. Near P.I. W-361

12" Poplar
30" Poplar
12" Oak

12" Beach
18" Beach

8" Poplar
10" Poplar
12" Poplar

P.I.#W-363

10" Poplar
8" Oak
4" Beach

1086
1087
1088
1089

PROPOSED

LITTLE PATUXENT PARK WAY

Property of
HOWARD RESEARCH AND DEVELOPMENT CORPORATION

Match Line "L-L" See This Drawing

P.I.#W-364

W.R.&A. B.M.#W-96

B.M.#W-96
20" Poplar

8" Poplar
12" Poplar

W.R.&A. B.M.#W-96 Elev. 365.68
R.R. Spike in root of 20" Poplar Tree. Sta. 0+10 between P.I. W-364 & W-365

Property of
HOWARD RESEARCH AND DEVELOPMENT CORPORATION

Open Space

VILLAGE OF LONG REACH SECTION 1

P.I.#W-365

12" Walnut
12" Walnut
10" Walnut

For Profile See Drawing No. 10

P.I.#W-366

P.I.#W-367

20" Beach
3" Sequoia

24" Oak
12" Beach
6" Maple

W.R.&A. B.M.#W-97 Elev. 370.86
R.R. Spike root of 10" Walnut Tree. 35'± N.W. of P.I.#W-368

Note: Build MH 4471 over ends of connecting sewers if existing. Otherwise provide channels in directions shown

P.I.#W-368

4" Walnut
12" Twin Oak
B.M.W-97
10" Walnut

Proposed 8" Channel
Proposed 10" S
Proposed 10" S

Sewer to be built under Contract No. 558 WS

Long Reach Interceptor Contract No. 326-S

500,500N 851,500E

500,250N 850,750E

499,750N 851,000E

501,750N 851,000E

STATE OF MARYLAND
KENNETH A. McCORD
1974
REGISTERED PROFESSIONAL ENGINEER & LAND SURVEYOR

WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND 9-21-70 (DATE) — W O Filbert (CHIEF—BUREAU OF WATER AND SEWER)	CONTRACT NO. C-326-S	PLAN OF SEWER MAINS	COLUMBIA LONG REACH INTERCEPTOR ELECTION DISTRICT GUILFORD NO. 6	DRAWING NO. 7 OF 10 SCALE 1"=50' 400'-487' 500'-487' 501'-487'

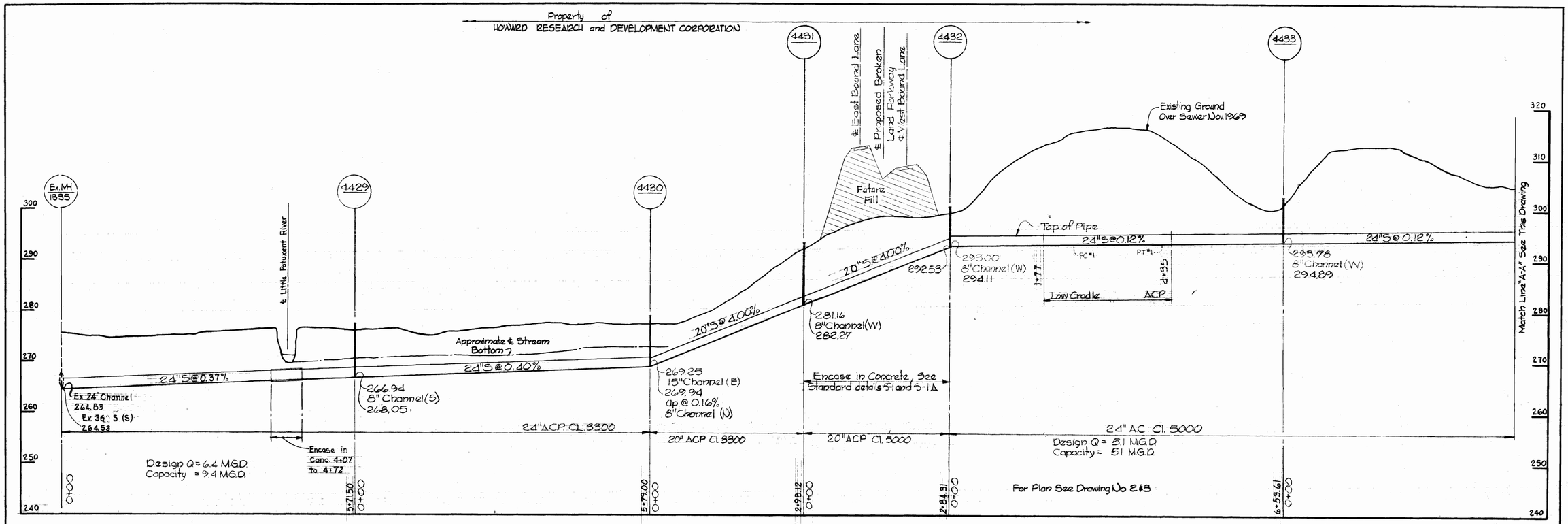
W. O. 6023-2

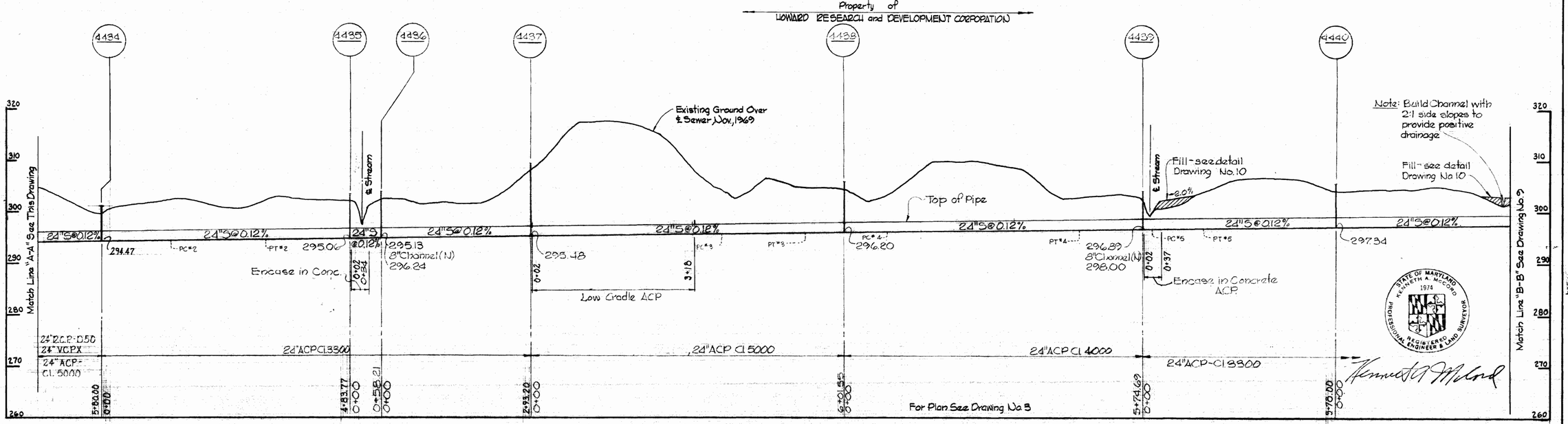
APRIL 17, 1972 — F B# 4554

WS 326-S/7

suspension

J. K. ELLIOTT CO., PGH., PA. REORDER A-11827





Long Reach Interceptor
Contract No 326-S

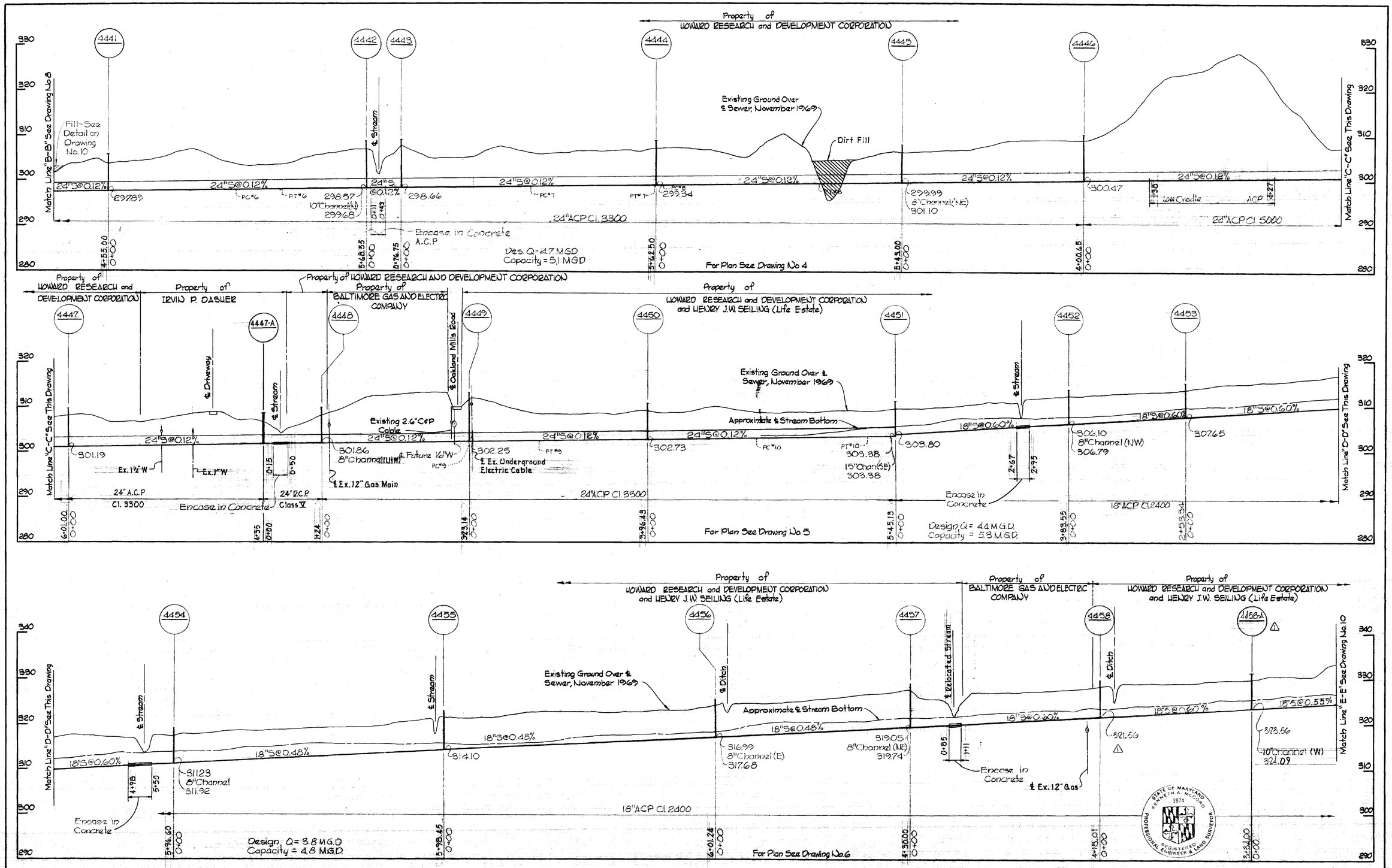
WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND 9-21-70 DATE CHIEF-BUREAU OF WATER AND SEWER	CONTRACT NO. C-326-S	PROFILES OF SEWER MAINS	COLUMBIA LONG REACH INTERCEPTOR ELECTION DISTRICT GUILFORD NO. 6	DRAWING NO. 8 OF 10 SCALE H:1"=100' V:1"= 10'

W. O. 6023-2

APRIL 17, 1972 AS BUILT

WS 326-S/8

S. K. ELLIOTT CO., PGH., PA. REORDER A-11827



No.	Date	Revision
⚠		Deleted 10" Channel in Manhole 4458. Added Manhole 4458-A.

Kenneth A. McCord

Long Reach Interceptor Contract No 326-S

WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND 9-21-70 DATE — W O Filbert CHIEF-BUREAU OF WATER AND SEWER	CONTRACT NO. C-326-S	PROFILES OF SEWER MAINS	COLUMBIA LONG REACH INTERCEPTOR ELECTION DISTRICT GUILFORD NO.6	DRAWING NO. 9 OF 10	SCALE H:1"=100' V:1"=10'

W. O. 6023-2

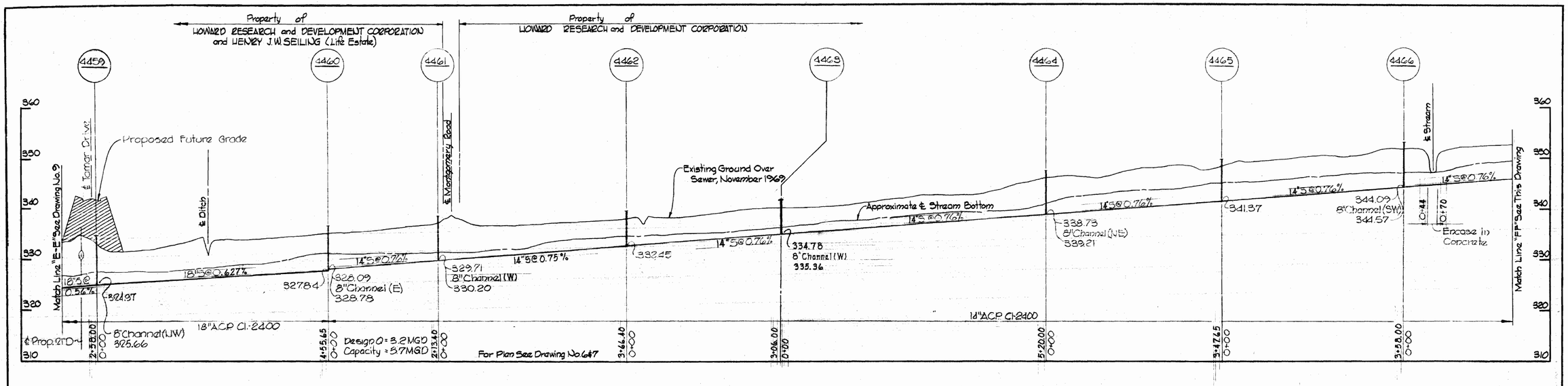
APRIL 17, 1972 AS BUILT

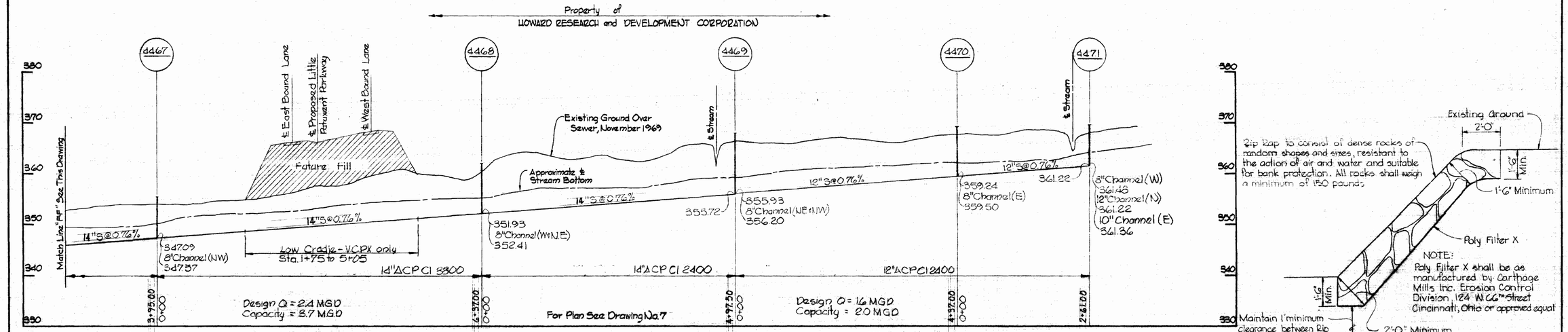
WS 326-S/9

suspense

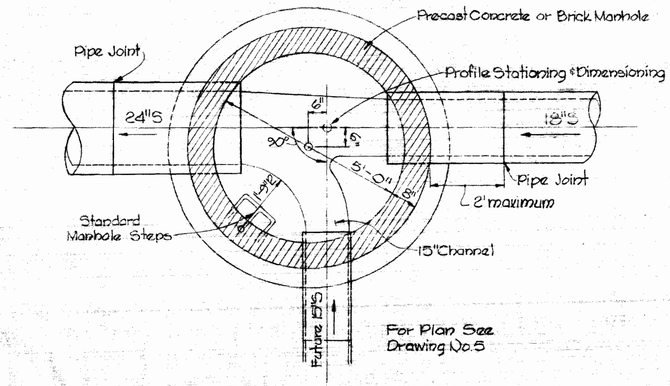
suspense

K. ELLIOTT CO., PGH., PA. REORDER A-11827

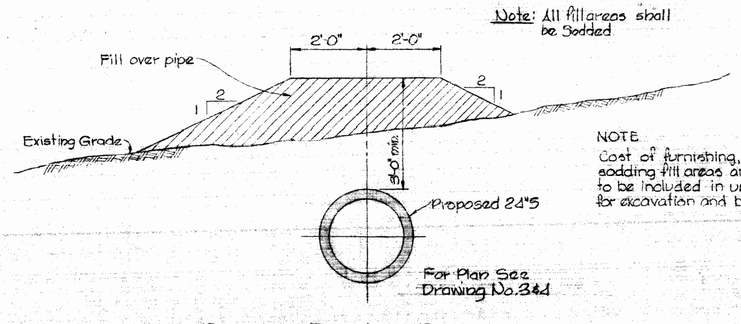




RIP-RAP DETAIL
Scale: 3/8"=1'-0"



DETAIL OF MANHOLE No. 4451
Scale: 1/2"=1'-0"



DETAIL OF FILL OVER PIPE
Scale: 1/2"=1'-0"

NOTE
Cost of furnishing, placing, and sodding fill areas and channels to be included in unit prices bid for excavation and backfill.

STATE OF MARYLAND KENNETH A. McCORD 1974 PROFESSIONAL REGISTERED ENGINEER & LAND SURVEYOR

Kenneth A. McCord

Long Reach Interceptor Contract No. 326-S

WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND 9-21-70 DATE W O Gilbert CHIEF-BUREAU OF WATER AND SEWER	CONTRACT NO. C-326-S	PROFILES OF SEWER MAINS	COLUMBIA LONG REACH INTERCEPTOR ELECTION DISTRICT GUILFORD NO. 6	DRAWING NO. 10 OF 10	SCALE H:1"=100' V:1"=10'

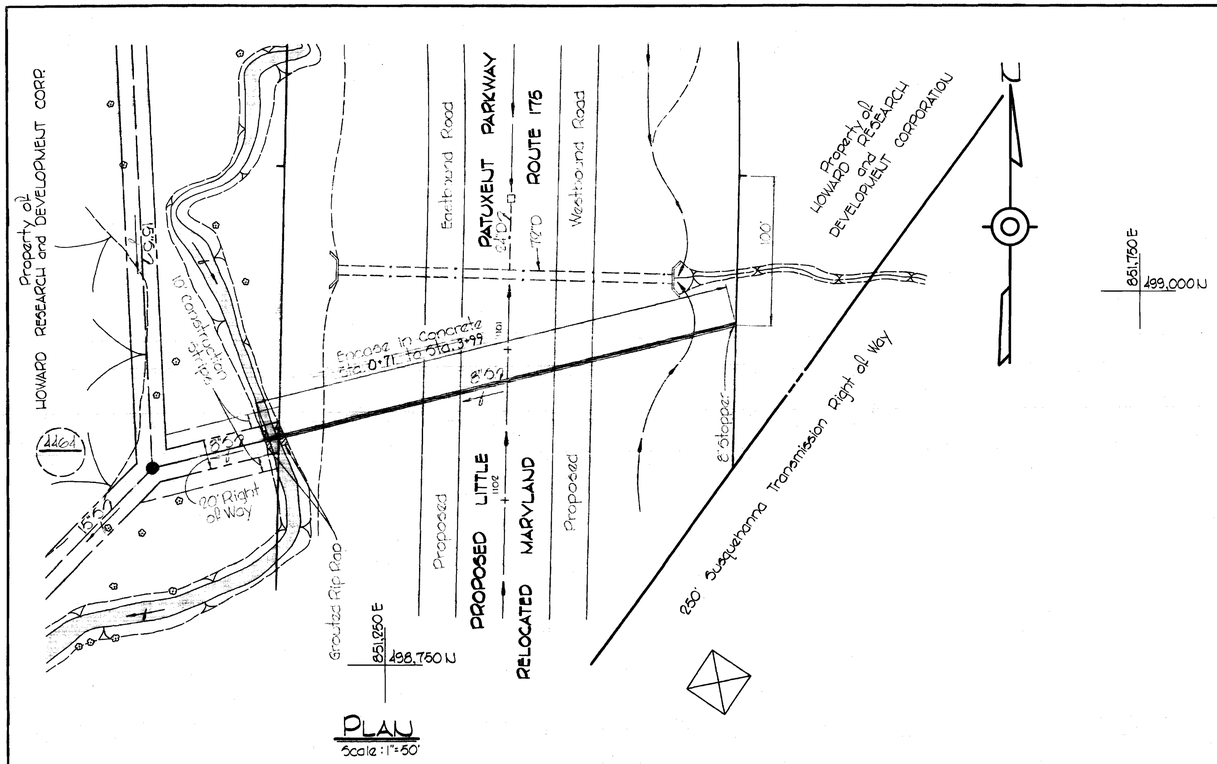
W. O. 6028-2

APRIL 17, 1972 AS BUILT

WS 326-S/10

suspend ext

D. K. ELLIOTT CO., Phila., Pa. REORDER A-11887


Property of
HOWARD RESEARCH and DEVELOPMENT CORP.
Property of
LOWARD and RESEARCH
DEVELOPMENT CORPORATION
Eastbound Road
PATUXENT PARKWAY
Westbound Road
ROUTE 176
PROPOSED LITTLE
RELOCATED MARYLAND
Proposed
Proposed
Encase in Concrete
Sta. 0+71 to Sta. 3+99
8"DI
120'
8' Stepper
250' Susquehanna Transmission Right of Way
20' Right of Way
Granular Rip Rap
151.51
151.51
151'
151'
151'