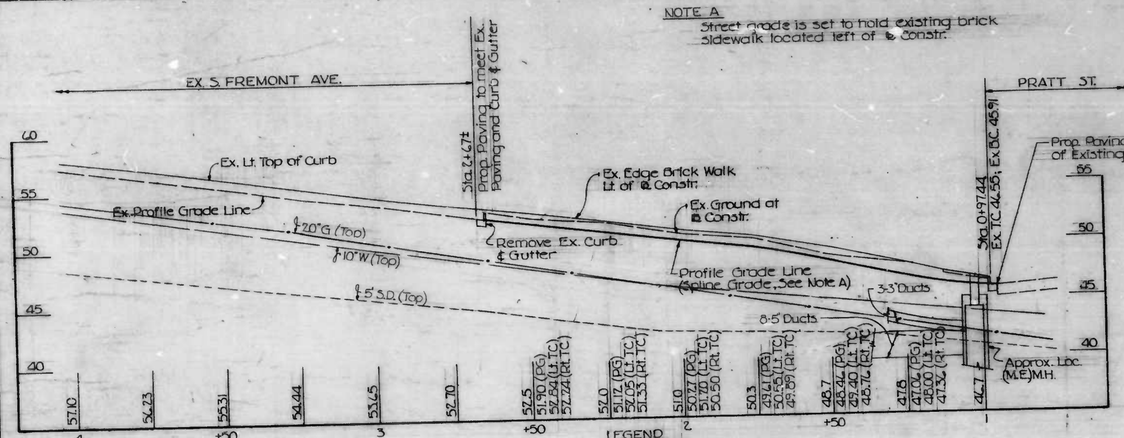
RATIO - 24

FILE REF.

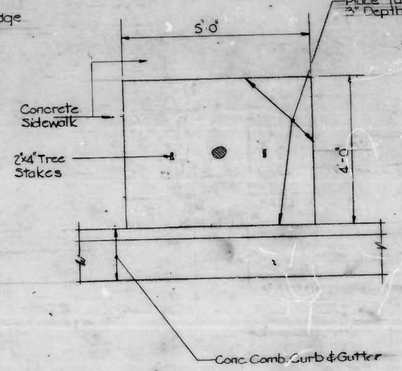
REVISIONS			
NO.	DESCRIPTION	DATE	BY

NOTE A
Street grade is set to hold existing brick sidewalk located left of ℄ Constr.



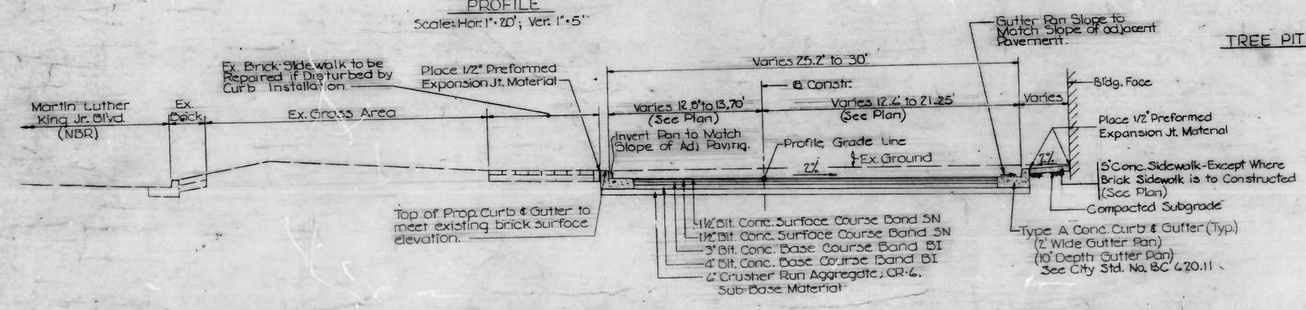
LEGEND
PG - Profile Grade Elev.
Lt. TC - Ex. Edge Brick Walk Elev. (Lt. Top of Curb Elev.)
Rt. TC - Rt. Top of Curb Elev.

PROFILE
Scale: Hor. 1" = 20'; Ver. 1" = 5'

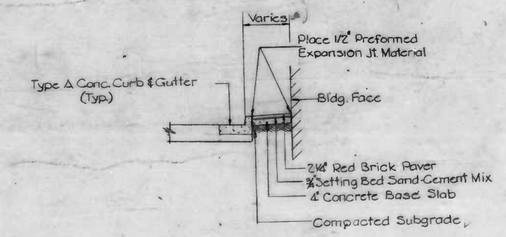


CAUTION
All tree planting pits shall be HAND DUG carefully to avoid damage to the existing utilities (M.E. conduit, etc.)

TREE PIT PLANTING DETAIL



TYPICAL SECTION
FREMONT AVE. EXTENDED
No Scale



TYPICAL SIDEWALK SECTION AT BUILDING ENTRANCE ON FREMONT AVE. USING BRICK SIDEWALK

PREPARED BY:
THE WILSON T. BALLARD CO.
CONSULTING ENGINEERS
17 GWYNNS MILL COURT
OWINGS MILLS, MARYLAND

CITY OF BALTIMORE
DEPARTMENT OF PUBLIC WORKS
BUREAU OF HIGHWAYS

EXTENSION OF FREMONT AVENUE
FROM LEMMON STREET TO PRATT STREET

ROAD PROFILE AND DETAILS

SCALE: AS SHOWN
DATE: MARCH, 1986
SHEET 3 OF 7

FILE REF. Misc # 1 - 1986

RATIO - 24

FILE REF.

REVISIONS			
NO.	DESCRIPTION	DATE	BY

BALTIMORE CITY SEDIMENT CONTROL

Title 8, Subtitle 11, Natural Resources, Annotated Code of Maryland and Baltimore City Ordinance, 1013, require that provisions to control erosion and sediment shall be included for all City land disturbance. As required by State Law, construction cannot be started until such erosion and sediment control provisions are approved.

The Contractor must filter all run-off and control all sediment within the project. All work must comply with all requirements of the "Baltimore City Erosion and Sediment Control Manual" and the "1983 Maryland Standards And Specifications For Soil Erosion And Sediment Control", as distributed and modified by the Baltimore City Sediment Control Section.

Nothing herein relieves the Contractor from complying with any and all other Federal, State or Municipal Regulations.

EROSION AND SEDIMENT CONTROL NOTE

1. All utilities to be constructed first, prior to any construction on the site.
2. All excavation material shall be placed on the high side whenever possible and confined to an area where it will not obstruct the normal flow of drainage courses.
3. Continuous inspection and maintenance of all Sediment Control devices will be required.

INSTRUCTIONS

For land disturbing activities it is understood that the following conditions will be met:

A. Grading

1. All disturbed areas shall be protected to control erosion and to prevent sedimentation of adjacent properties, storm sewers and/or streams.
2. Sediment control devices such as diversion berms, sediment traps, silt fences, vegetative stabilization, etc., shall be used to prevent off-site sedimentation at all times, at every location throughout the site where natural or existing conditions would cause sediment to normally wash off the site.
3. No proposed cut or fill will exceed three feet in depth (cut) or height (fill) without erosion and sediment controls. Exclusive of excavation for foundations.
4. No fill will be placed on any existing slope steeper than 5:1 without erosion and sediment controls.
5. There will be no final graded slope steeper than 2:1.
6. Borrow and/or spoil material shall not be stockpiled within the limits of this project.
7. All fills will be free of any organic or other deleterious material and will be compacted. All areas to receive fill will have the ground surface prepared by removing all existing vegetation and root mat.
8. The proposed grading will not impair existing surface drainage, constitute a potential erosion hazard, or source of sedimentation to any adjacent property, drainage way or right-of-way.
9. All points of ingress shall be protected to prevent tracking of mud onto public ways.

B. Stabilization

1. As soon final grading is completed, all disturbed areas will be temporary or permanent mulch, including stone, blacktop, conc. surfacing, etc.
2. For vegetating areas steeper than three horizontal units to one vertical unit, adequate mulch, fertilizer and type of seed will be placed to ensure a vigorous ground cover and such application will be repeated, if necessary, until such growth is established.
3. Timing-Following initial soil disturbances or redisturbance, permanent or temporary stabilization shall be completed within:
   a. Seven calendar days for the surface of all perimeter dikes, swales, ditches, perimeter slopes, and all slopes greater than three horizontal to one vertical (3:1) and,
   b. Twenty-four (24) hours for disturbed areas such as base repairs, alley returns, curb repairs, bus pads, pedestrian ramps, sidewalks and backfilled utility trenches. Stabilization shall consist of a minimum of 4 inch Graded Aggregate Sub-base and,
   c. Fourteen calendar days for all other disturbed or graded areas.

4. For details regarding temporary and permanent stabilization practices, reference the "1983 Maryland Standards And Specifications For Soil Erosion And Sediment Control", or contact the Baltimore City Sediment Control Representative.
5. Sediment control devices are to be removed only after all disturbed areas have been stabilized.

STABILIZATION SPECIFICATIONS

TEMPORARY STABILIZATION - ARTICLE 36.12

Planting Season: Temporary seeding can be done anytime of the year except when the ground is frozen. This item shall consist of furnishing and placing all fertilizer, temporary seed and mulch on areas disturbed for more than fourteen (14) days.

Schedule of Procedure: The contractor shall provide temporary stabilization as specified in the approved sediment control plan.

Seedbed Preparation: When the area to be seeded is packed and hard, the top layer of topsoil shall be loosened by raking or other means before seed is applied.

Lime: No lime shall be required for temporary seeding.

Fertilizer: Commercial fertilizer of an analysis 5-10-5 applied at a rate of 35 pounds per 1000 square feet.

Seeding: (Section 20.28-11 Seed mixture, Annual Ryegrass applied at the rate of 3 pounds per 1000 square feet.

Mulching: Applied at the rate of 100 pounds per 1000 square feet. Mulching anchoring-asphalt mix at the rate of 10 gallons per 1000 square feet. The mulch shall be applied by blowing and the asphalt binder material shall be sprayed into the mulch.

SEQUENCE OF OPERATION

1. Contractor must submit written notification seventy-two hours (72) prior to any construction activity to the Baltimore City Sediment Control Section stating:
   a. When contractor intends to begin construction
   b. Source of Borrow Material
   c. Disposal Site Area
   d. Contractor's Tentative Closing Date
   e. Designated Stockpile Area; locations
   f. Designated Contractor's Staging Area
2. Grade for roadway, curb and gutter and sidewalk. Start at the north edge of existing W. Pratt Street and proceed toward the north. Construct the stabilized construction entrance (SCE) and the inlet protection left of Sta. 1+40 at the earliest possible time.
3. Complete the grading work for the extension of S. Fremont Ave.
4. Construct curb and gutter, roadway paving and sidewalk for S. Fremont Avenue between the northern limit at Sta. 2+68± and the northern limit of the SCE as a first priority. Remove the SCE and the existing inlet and construct the remainder of S. Fremont Avenue.
5. Reconstruct the curb and gutter, sidewalk and driveway apron area along W. Pratt Street. The sidewalk area disturbed on a given day shall not exceed the area that the Contractor is able to replace in that same day. It is noted that provisions must be made along W. Pratt Street to direct the runoff flow from a rainfall to the existing inlet as shown.
6. Clean up site.

LEGEND

— — — LIMITS OF DISTURBANCE

INLET PROTECTION (SC-1 OR SC-2 AS NOTED)

—S—S— SILT FENCE (SC-3)

STABILIZED CONSTRUCTION ENTRANCE (SC-4)

SITE DATA

TOTAL DISTURBED AREA - SQ.FT.	19012
TOTAL CUT - CU.YDS.	430
TOTAL FILL - CU.YDS.	0
TOTAL BALANCE CUT/FILL - CU.YDS.	430

Owners/Developers Certification

"I/We hereby certify that any clearing, grading, construction and/or development will be done pursuant to this plan and that and responsible personnel involved in the construction project will have a certification of attendance at a Department of Natural Resources approved training program for the control of sediment and erosion before beginning the project."

Signature Owner/Developer   Print Name   Date

Address   Phone

Engineer's Certification

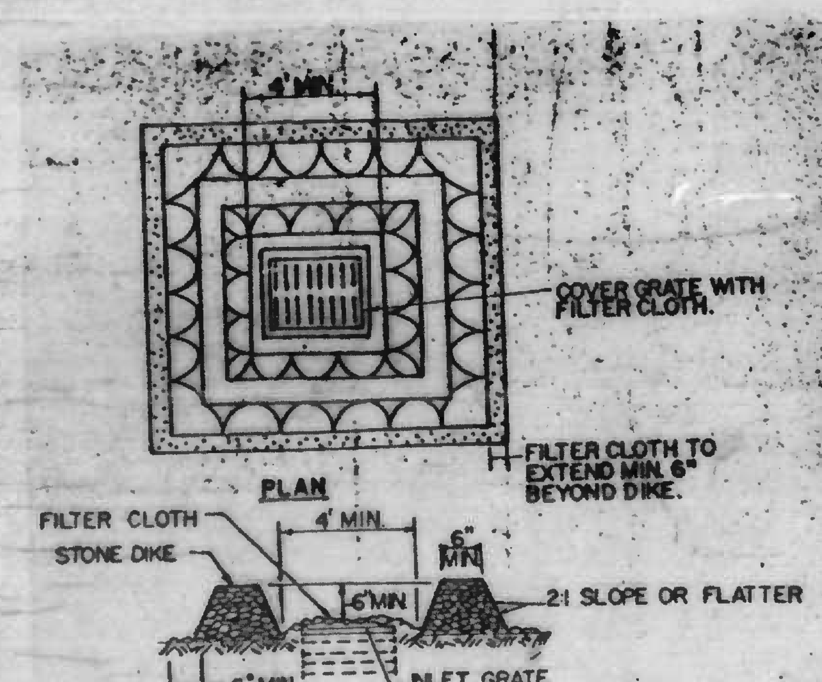
I certify that this plan for Erosion and Sediment Control represents a practical, workable plan based on personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Baltimore City Erosion and Sediment Control Section.

Robert N. Bond 6/19/86 — Signature, Date

ROBERT N. BOND — Print Name

The Wilson T. Ballard Co., 17 Gwynns Mill Court, Owings Mills, Md. 21117 — Address

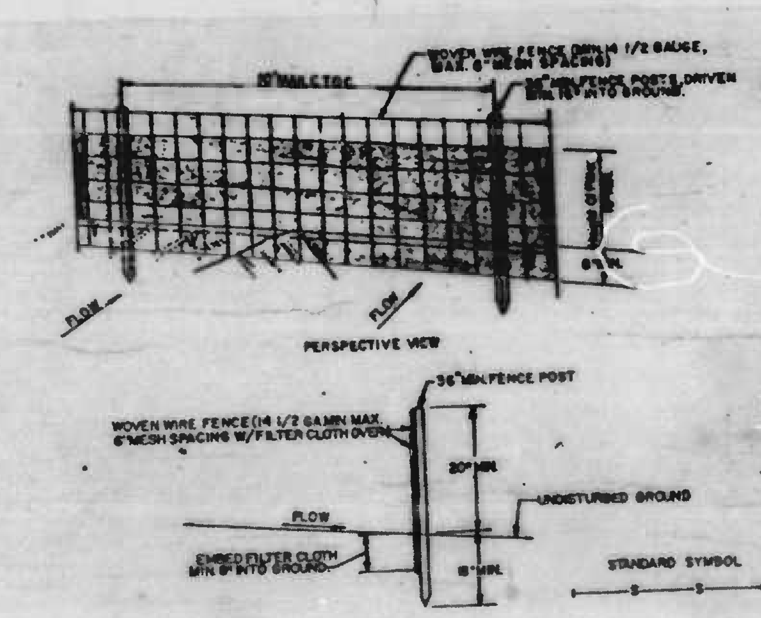
363-0156 — Phone



CONSTRUCTION SPECIFICATIONS

1. Stone for the Dike shall be crushed stone. Gravel may be used if crushed stone is not available. The stone shall meet MSHA size or AASHTO designation M43 size no. 2 or 24. Crusher Run is not acceptable.
2. Filter Cloth Shall be Poly-Filter X or approved equal.
3. The structure shall be inspected after each rain and repairs made as needed.

INLET PROTECTION
DETAIL SC-2

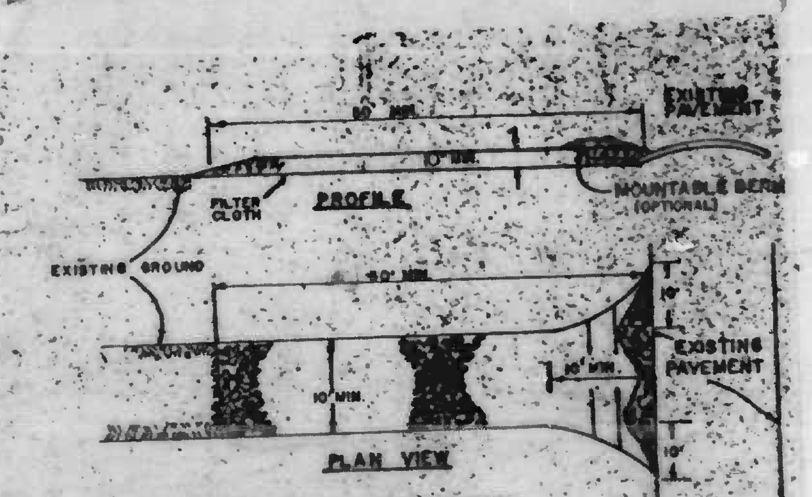


CONSTRUCTION NOTES FOR FABRICATED SILT FENCE

1. Woven Wire Fence to be fastened securely to fence posts with wire ties or staple.
2. Filter Cloth to be fastened securely to Woven Wire Fence with ties spaced every 24" at top and mid section
3. When two sections of Filter Cloth adjoin each other they shall be overlapped by six inches and folded.
4. Maintenance shall be performed as needed and material removed when "bulges" develop in the silt fence.

POSTS:	Steel either T or U Type or 2" Hardwood
FENCE:	Woven Wire, 14 Ga. 6" Max Mesh opening
FILTER CLOTH:	Filter X, Mirafi 100X, stabilinka T140N or approved equal
PREFABRICATED UNIT:	GEOFAB, ENVIROFENCE, OR Equal

SILT FENCE
DETAIL SC-3



CONSTRUCTION SPECIFICATIONS

1. Stone Size - Use 2" stone, or reclaimed or recycled concrete equivalent.
2. Length - As required, but not less than 50 feet (except on a single residence lot where a 30 foot minimum length would apply).
3. Thickness - Not less than six (6) inches.
4. Width - Ten (10) foot minimum, but not less than the full width at points where ingress or egress occurs.
5. Filter Cloth - Will be placed over the entire area prior to placing of stone. Filter will not be required on a single family residence lot.
6. Surface Water - All surface water flowing or diverted toward construction entrances shall be piped across the entrance. If piping is impractical, a mountable berm with 5:1 slopes will be permitted.
7. Maintenance - The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto public rights-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or cleanout of any measures used to trap sediment. All sediment spilled, dropped, washed or tracked onto public rights-of-way must be removed immediately.
8. Washing - Wheels shall be cleaned to remove sediment prior to entrance onto public rights-of-way. When washing is required, it shall be done on an area stabilized with stone and which drains into an approved sediment trapping device.
9. Periodic inspection and needed maintenance shall be provided after each rain.

STABILIZED CONSTRUCTION ENTRANCE
DETAIL SC-4

APPROVED BY: ______ EROSION & SEDIMENT CONTROL REPRESENTATIVE

PREPARED BY:
THE WILSON T. BALLARD CO.
CONSULTING ENGINEERS
17 GWYNNS MILL COURT
OWINGS MILLS, MARYLAND

CITY OF BALTIMORE
DEPARTMENT OF PUBLIC WORKS
BUREAU OF HIGHWAYS

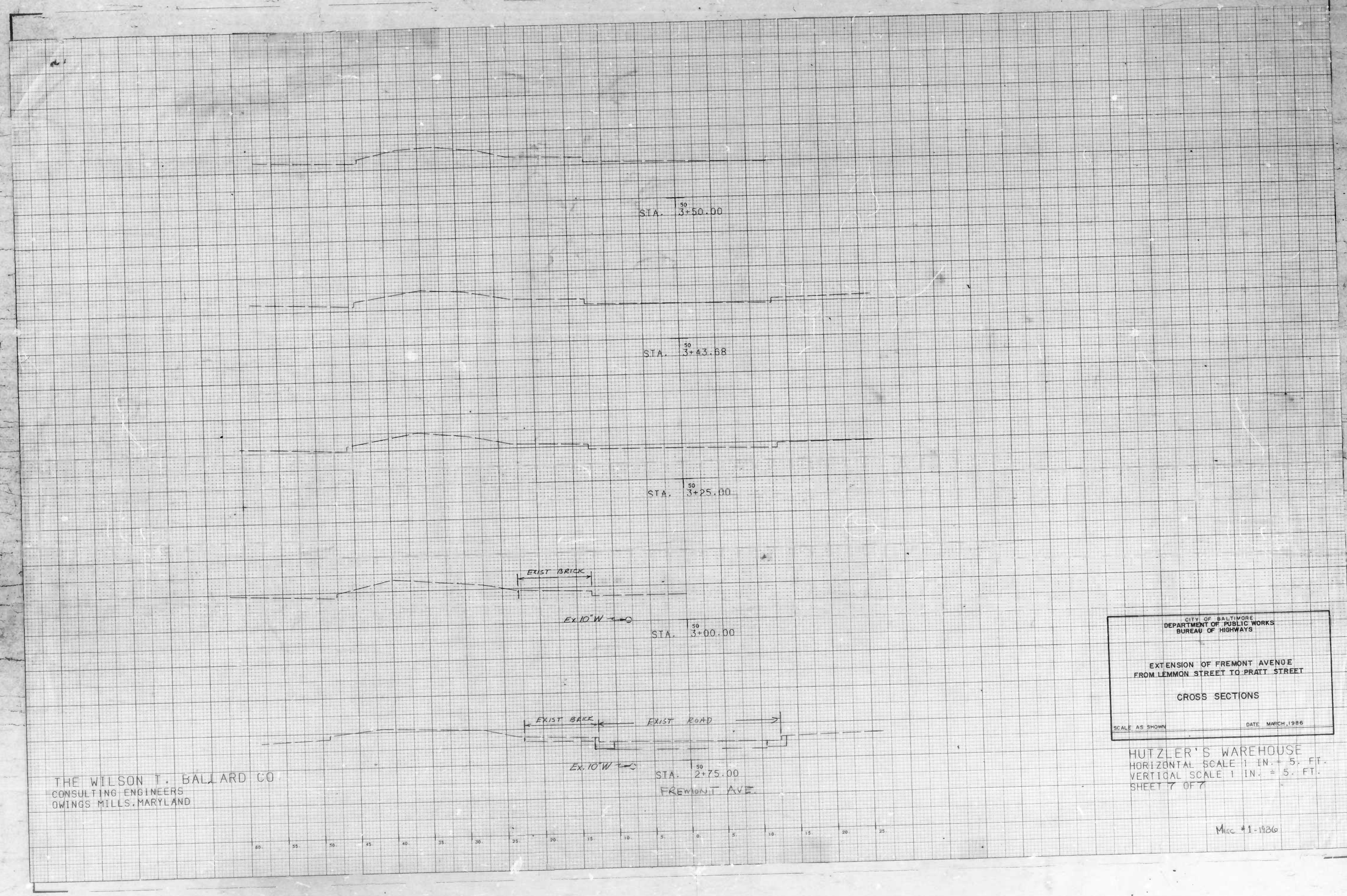
EXTENSION OF FREMONT AVENUE
FROM LEMMON STREET TO PRATT STREET

SOIL EROSION/SEDIMENT CONTROL
DETAIL

SCALE: NONE   DATE: SHEET 5 OF 7

FILE REF. Misc # 1 - 1986

RATIO - 24



CITY OF BALTIMORE
DEPARTMENT OF PUBLIC WORKS
BUREAU OF HIGHWAYS

EXTENSION OF FREMONT AVENUE
FROM LEMMON STREET TO PRATT STREET

CROSS SECTIONS

SCALE AS SHOWN DATE MARCH, 1986

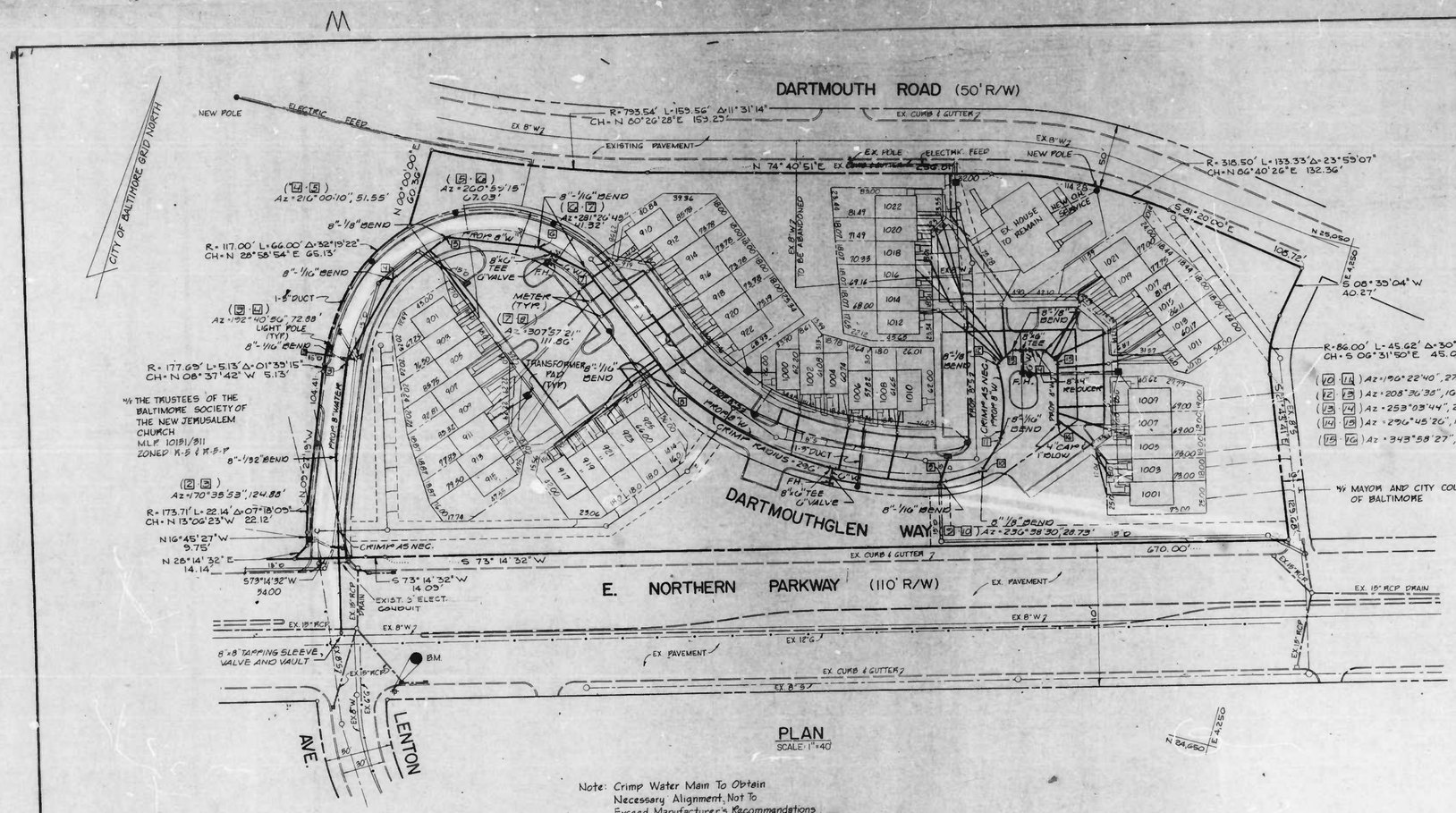
THE WILSON T. BALLARD CO
CONSULTING ENGINEERS
OWINGS MILLS, MARYLAND

HUTZLER'S WAREHOUSE
HORIZONTAL SCALE 1 IN. = 5. FT.
VERTICAL SCALE 1 IN. = 5. FT.
SHEET 7 OF 7

Mecc #1-1986

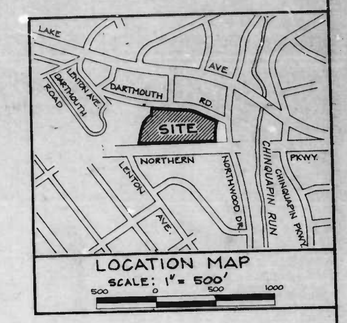
RATIO - 24

REVISIONS			
NO.	DESCRIPTION	DATE	BY



PLAN
SCALE: 1" = 40'

Note: Crimp Water Main To Obtain Necessary Alignment, Not To Exceed Manufacturer's Recommendations



LOCATION MAP
SCALE: 1" = 500'

BENCH MARK: B.C. 8618
DESCRIPTION: BRASS SCREW IN NW CORNER OF CON. BASE FOR STREET LIGHT, AT S.E. CORNER NORTHERN PKWY. + LENTON AVE 05' W. EDGE, 03' W EDGE.
ELEV: 360.214

GENERAL NOTES:

1. NOTIFY THE BUREAU OF WATER AND WASTE WATER MAINTENANCE DIVISION AT 396-0243 ONE (1) WEEK BEFORE STARTING WORK.
2. ALL EXISTING WATER VALVES SHALL BE OPERATED BY THE BUREAU OF WATER AND WASTE WATER MAINTENANCE DIVISION FORCES ONLY.
3. ALL WATER SUPPLY SERVICE AND FIRE HYDRANT INSTALLATIONS SHALL BE DONE IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS" AND THE "BOOK OF STANDARDS" OF THE CITY OF BALTIMORE.
4. THE CONTRACTOR SHALL OBSERVE EXTREME CAUTION WHEN WORKING NEAR OR OVER EXISTING WATER FACILITIES.
5. ALL NEW WATER MAINS SHALL BE INSTALLED TO 4' COVER BELOW FINISHED GRADE UNLESS OTHERWISE SHOWN OR AS DIRECTED BY THE ENGINEER.
6. VALVES ON FIRE HYDRANT LEADS SHALL BE TIED TO THE MAIN LINE TEE ON OUTLET WITH TWO 3/4" INCH, THREADED STEEL RODS AND NUTS AS DIRECTED BY THE ENGINEER.
7. ALL SERVICE LEADS SHALL BE SET LEVEL AND AT 90° TO THE PROPOSED CURB LINE.
8. PRESSURE NOTE:
   NORMAL OPERATING PRESSURE ~60 PSI
   TEST PRESSURE ~150 PSI
9. CONTRACTOR SHALL EXCAVATE FOR LOCATION AND DEPTH OF EXISTING MAIN BEFORE LAYING ANY PIPE.
10. APPLICATION FOR THE INSTALLATION OF NEW WATER SERVICES SHALL BE MADE TO THE METERED ACCOUNTS DIVISION, BUREAU OF WATER AND WASTE WATER, NON MUNICIPAL BUILDING.
11. CONTRACTOR SHALL MAKE THE STREET CUT AND REPAIR TO THE EXISTING PAVING IN ACCORDANCE WITH THE APPROPRIATE BALTIMORE CITY STANDARD DETAIL.
12. REPLACE PAVING WITH BALTIMORE CITY STANDARD RIGID BASE PAVING AS SHOWN ON BC-576.20, 147.

COORDINATE TABLE

NO.	NORTH	EAST
1	24613.46	3584.51
2	24639.50	3574.40
3	24702.70	3554.00
4	24833.80	3570.00
5	24875.50	3600.30
6	24886.00	3666.50
7	24877.80	3707.00
8	24809.00	3795.20
9	24793.00	4008.10
10	24808.80	4032.10
11	24835.00	4039.80
12	24891.00	4022.00
13	24905.30	4025.80
14	24912.00	4051.80
15	24906.00	4063.70
16	24859.00	4077.20

40 0 40 80 120
GRAPHIC SCALE

RELEASED BY R. OF W. DIVISION _____

CITY OF BALTIMORE
DEPARTMENT OF PUBLIC WORKS
BUREAU OF WATER AND WASTE WATER

INSTALLATION OF A PROPOSED 8" WATER MAIN TO BE BUILT IN DARTMOUTHGLEN WAY FROM E. NORTHERN PARKWAY TO 923' NORTHWESTERLY BY DARTMOUTH GLEN LIMITED PARTNERSHIP

SCALE: AS SHOWN DATE: 8-5-86
WATER ENGINEERING DIVISION SHEET 6 OF 11

ENGINEER:
STV/LYON ASSOCIATES
21 GOVERNOR'S COURT
BALTIMORE, MD. 21207

W-109B-378560 Misc #3-1986

RATIO - 24

FILE REF.

BENCH MARKS

CITY B.M. #0724 - BRASS SCREW IN S.E. CORNER OF CONC BASE OF STREET LIGHT POLE ON SOUTH SIDE OF PRATT STREET 25± WEST OF PENN STREET ELEV. 41.499

WTB B.M. #1 (ON SITE) - X CUT IN BACK OF SIDEWALK AT THE S.E. BUILDING CORNER ELEV. = 45.440

GENERAL NOTES

All work shall be performed in accordance with the City of Baltimore, Department of Public Works Specifications For Material, Highways, Bridges, Utilities and Incidental Structures dated 1979 and the current amendment thereto.

Existing utilities are shown based on field surveys and record information. However, no guarantee is made that the information shown is complete or accurate. It shall be the Contractor's responsibility to confirm the location of existing utilities before commencing any work.

SPECIAL NOTES

NOTE A

Construct Modified Pedestrian Ramp-Type 2 as shown on Standard No. BC 855-21 of the City of Baltimore Book of Standards. Exposed aggregate finish shall be used on the ramp instead of the standard concrete finish. Adjust existing M.E. manhole frame and cover vertically as required to meet the ramp grade and warp proposed curb alignment as required to avoid conflict with existing manhole stock.

NOTE B

Construct new concrete curb and gutter against edge of existing brick sidewalk. See typical section on sheet 2.

NOTE C

Remove existing storm drain inlet and 15" pipe. Close opening in existing 5' diameter drainage structure using brick masonry.

NOTE D

Contractor to move existing water meter to proposed sidewalk area. Reuse existing meter, frame and cover.

NOTE E

Reference is made to the following City Standard Details:

Sidewalk Expansion Joint-Std. No. BC-655.01
Type A Concrete Combination Curb and Gutter-Std. No. BC-620.11

NOTE F

Remove existing concrete and brick sidewalk and concrete depressed curb and gutter for the full limit of the existing depressed curb. Construct new concrete sidewalk and curb and gutter to replace the removed materials. No brick sidewalk to be placed in this area. See Section A-A this sheet.

NOTE G

Construct exposed aggregate concrete pedestrian ramp. Adjust surrounding existing brick to butt into the regular (straight) edge of the concrete ramp.

NOTE H

(1) Construct 1-3" diameter Duct from existing EMH (Rt. Sta. 1+00) to proposed Hand Box location as shown (Rt. Sta. 1+74).

(2) Install new Hand Box 23' Right of Sta. 1+74 (See Baltimore City Standard BC 804.01).

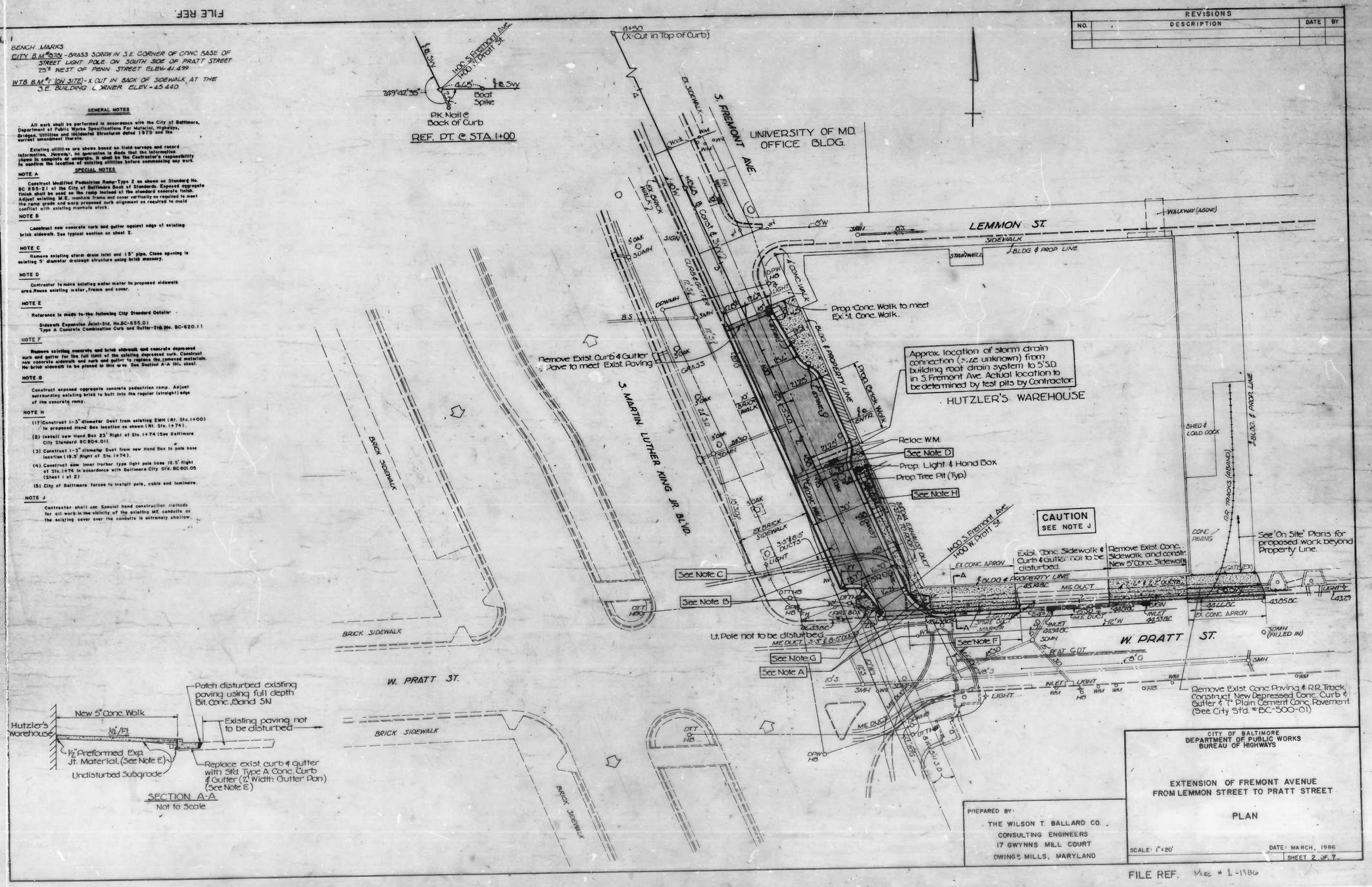
(3) Construct 1-3" diameter Duct from new Hand Box to pole base location (19.5' Right of Sta. 1+74).

(4) Construct new Inner Harbor type light pole base 19.5' Right of Sta. 1+74 in accordance with Baltimore City Std. BC 801.05 (Sheet 1 of 2)

(5) City of Baltimore forces to install pole, cable and luminaire.

NOTE J

Contractor shall use Special hand construction methods for all work in the vicinity of the existing ME conduits as the existing cover over the conduits is extremely shallow.



FILE REF. Misc # 1-1986

RATIO - 24

FILE REF.

BENCH MARKS
CITY B.M. #1979 - BRASS SCREW IN S.E. CORNER OF CONC BASE OF STREET LIGHT POLE ON SOUTH SIDE OF PRATT STREET 75' WEST OF PENN STREET ELEV. 41.499
WTB B.M. #1 (ON SITE) - X CUT IN BACK OF SIDEWALK AT THE S.E. BUILDING CORNER ELEV. = 45.440

GENERAL NOTES

All work shall be performed in accordance with the City of Baltimore, Department of Public Works Specifications For Material, Highways, Bridges, Utilities and Incidental Structures dated 1979 and the current amendment thereto.

Existing utilities are shown based on field survey and record information. However, no guarantee is made that the information shown is complete or complete. It shall be the Contractor's responsibility to confirm the location of existing utilities before commencing any work.

SPECIAL NOTES

NOTE A
Construct Modified Pedestrian Ramp Type 2 as shown on Standard No. BC 655-21 of the City of Baltimore Book of Standards. Exposed aggregate finish shall be used on the ramp instead of the standard concrete finish. Adjust existing M.E. manhole frame and cover vertically as required to meet the ramp grade and make proposed curb alignment as required to avoid conflict with existing manhole stack.

NOTE B
Construct new concrete curb and gutter against edge of existing brick sidewalk. See typical section on sheet 2.

NOTE C
Remove existing storm drain inlet and 18" pipe. Close opening in existing 3' diameter drainage structure using brick masonry.

NOTE D
Contractor to move existing water service to proposed sidewalk area. Reset existing meter, frame and cover.

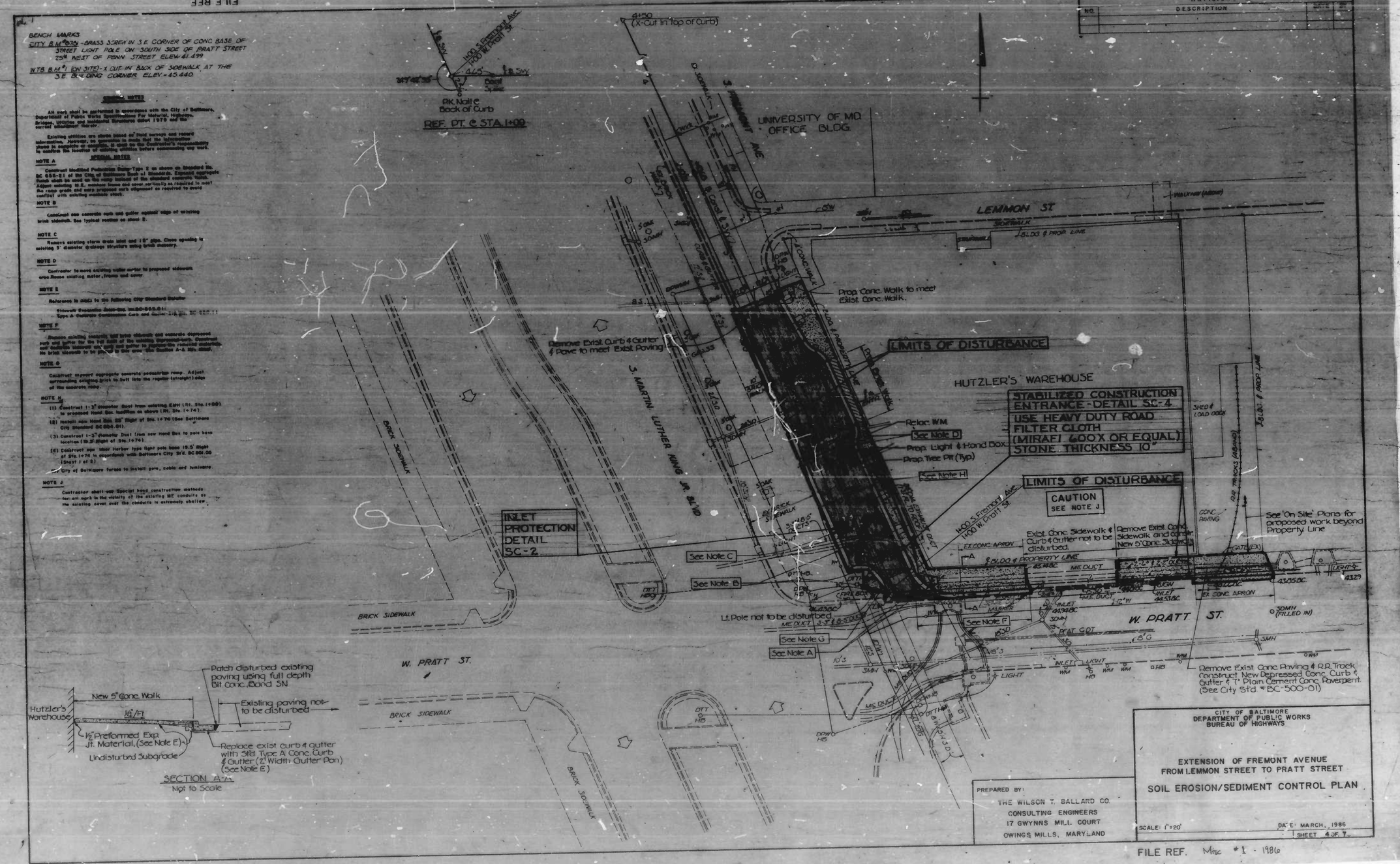
NOTE E
Reference is made to the following City Standard Detail:
Sidewalk Expansion Joint-Std. No. BC-500-01.
Type A Depressed Combination Curb and Gutter-Std. No. BC-500-11.

NOTE F
Remove existing concrete and brick sidewalk and concrete depressed curb and gutter for the full width of the existing depressed curb. Construct new curb and gutter as shown and gutter to match the remaining curb and gutter. Reset brick sidewalk to be flush to this area. See Section A-A, this sheet.

NOTE G
Construct exposed aggregate concrete pedestrian ramp. Adjust surrounding adjacent brick to butt into the regular (straight) edge of the concrete ramp.

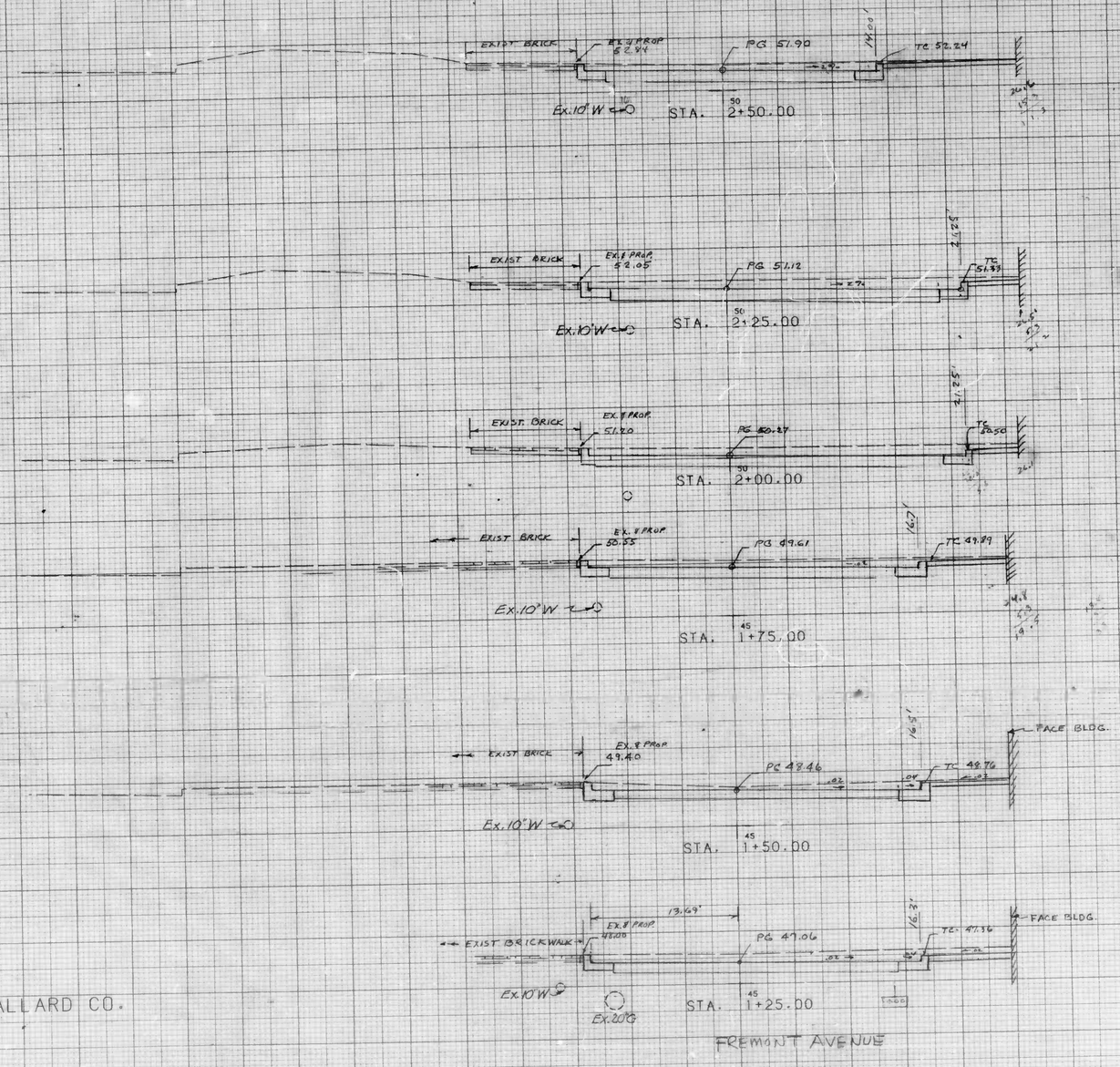
NOTE H
(1) Construct 1-3" diameter duct from existing EMH (Rt. Sta. 1+00) to proposed Hand Box. Location as shown (Rt. Sta. 1+74).
(2) Install new Hand Box 22' right of Sta. 1+74 (See Baltimore City Standard BC 604-01).
(3) Construct 1-3" diameter duct (from new Hand Box to pole base location (19.5' right of Sta. 1+74).
(4) Construct new Inner Harbor type light pole base 19.5' right of Sta. 1+74 in accordance with Baltimore City Std. BC 604.06 (Sheet 1 of 2).
City of Baltimore forces to install pole, cable and luminaire.

NOTE J
Contractor shall use Special hand construction methods for all work in the vicinity of the existing MC conduits as the existing sewer over the conduits is extremely shallow.



FILE REF. Misc #1 - 1986

RATIO - 24



THE WILSON T. BALLARD CO.
CONSULTING ENGINEERS
OWINGS MILLS, MARYLAND

CITY OF BALTIMORE
DEPARTMENT OF PUBLIC WORKS
BUREAU OF HIGHWAYS

EXTENSION OF FREMONT AVENUE
FROM LEMMON STREET TO PRATT STREET

CROSS SECTIONS

SCALE AS SHOWN DATE MARCH, 1986

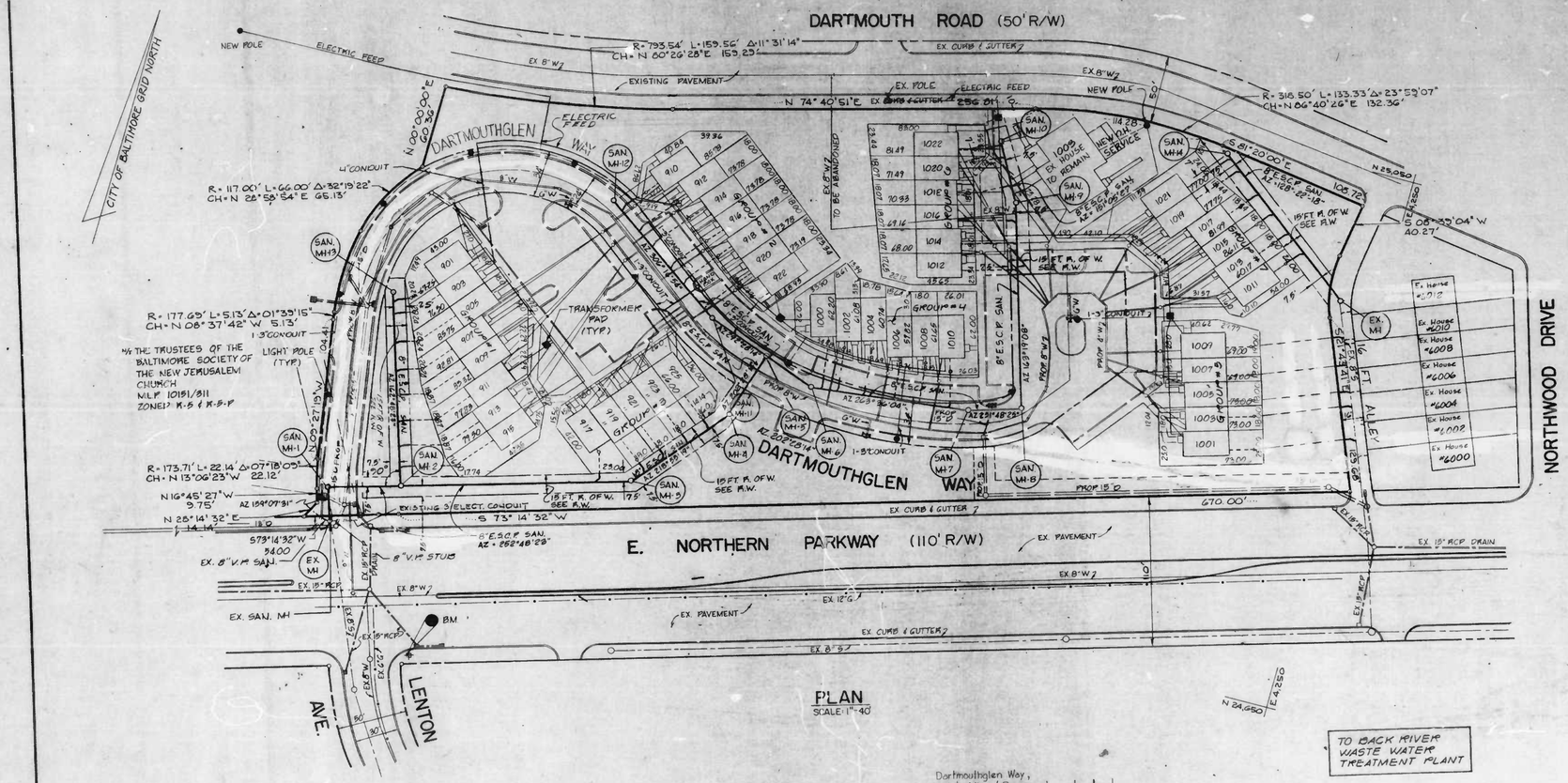
HUTZLER'S WAREHOUSE
HORIZONTAL SCALE 1 IN. = 5. FT.
VERTICAL SCALE 1 IN. = 5. FT.
SHEET 6 OF 7

Misc #1 - 1986

RATIO - 24

W.W.D. 80 - 47275

REVISIONS			
NO.	DESCRIPTION	DATE	BY



BENCH MARK BC 8618
DESCRIPTION: BRASS SCREW IN NW CORNER OF CON. BASE FOR STREET LIGHT, AT SE CORNER NORTHERN PKWY. + LENTON AVE. 05' N. EDGE, 03' W EDGE.
ELEV. 360.21d

GENERAL NOTES:

ALL CHANNELS IN MANHOLES MUST BE CONSTRUCTED TO CONFORM AS CLOSE AS POSSIBLE TO THE STANDARD CHANNEL CALLED FOR ON THE PROFILES.
GRAVEL CRADLE IS REQUIRED UNDER ALL PIPE
BACKFILL SHALL BE MECHANICALLY TAMPED. FOR STANDARD DETAILS SEE BALTIMORE CITY BOOK OF STANDARDS.

OBSTRUCTION SHOWN ON THESE DRAWINGS ARE FOR THE CONVENIENCE OF THE CONTRACTOR ONLY AND THE CITY DOES NOT WARRANT OR GUARANTEE THE CORRECTNESS OR THE COMPLETNESS OF THE INFORMATION GIVEN. THE CONTRACTOR MUST VERIFY ALL SUCH INFORMATION TO HIS OWN SATIFACTION.

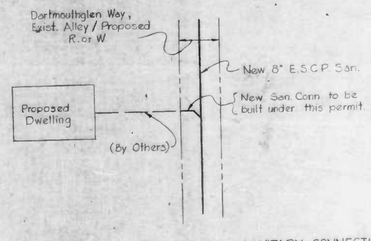
BEFORE DOING ANY DIGGING NOTIFY THE FOLLOWING
BUREAU OF HIGHWAYS
STREET LIGHTING SECTION 396-1311, CONDUIT SECTION 396-3650, (MISS UTILITY) 659-7777

COMPRESSION TYPE JOINTS MEETING A.S.T.M. SPEC. C-425-66T SHALL BE USED.

INLET PROTECTION:
ALL EXISTAIG INLETS SHALL BE PROTECTED USING BALTIMORE CITY STANDARD BC 990.01

SANITARY MANHOLE COORDINATE SCHEDULE		
SAN. MANHOLE NO.	NORTH	EAST
1	24628.766	3872.243
2	24643.4	3619.5
3	24691.1	3773.8
4	24787.3	3827.2
5	24804.0	3846.5
6	24792.4	3874.5
7	24805.6	3992.2
8	24817.3	4027.8
9	24962.8	3984.2
10	25003.0	3962.0
11	24924.0	3798.1
12	24889.7	3708.6
13	24781.9	3576.7
14	25036.8	4115.4

TO BACK RIVER WASTE WATER TREATMENT PLANT



TYPICAL DETAIL FOR BUILDING SANITARY CONNECTIONS
Scale: None

PUBLIC WORKS AGREEMENT 10/16/86
RELEASED BY R.O.W. DIVISION
PLATS 39 & 41-EE2 DRAINAGE DIST. H1-D

WASTE WATER ENGINEERING DIVISION
BUREAU OF WATER AND WASTE WATER
DIRECTOR OF PUBLIC WORKS

CITY OF BALTIMORE
DEPARTMENT OF PUBLIC WORKS
BUREAU OF WATER AND WASTE WATER
SANITARY SEWER, TO BE BUILT IN DARTMOUTH-GLEN WAY, 16 FOOT ALLEY AND 15 FOOT RIGHTS OF WAY BY DARTMOUTH GLEN LIMITED PARTNERSHIP

PLAN

SCALE: AS SHOWN DATE: 8-5-86
WASTE WATER ENGINEERING DIVISION SHEET OF

40 0 40 80 120
GRAPHIC SCALE

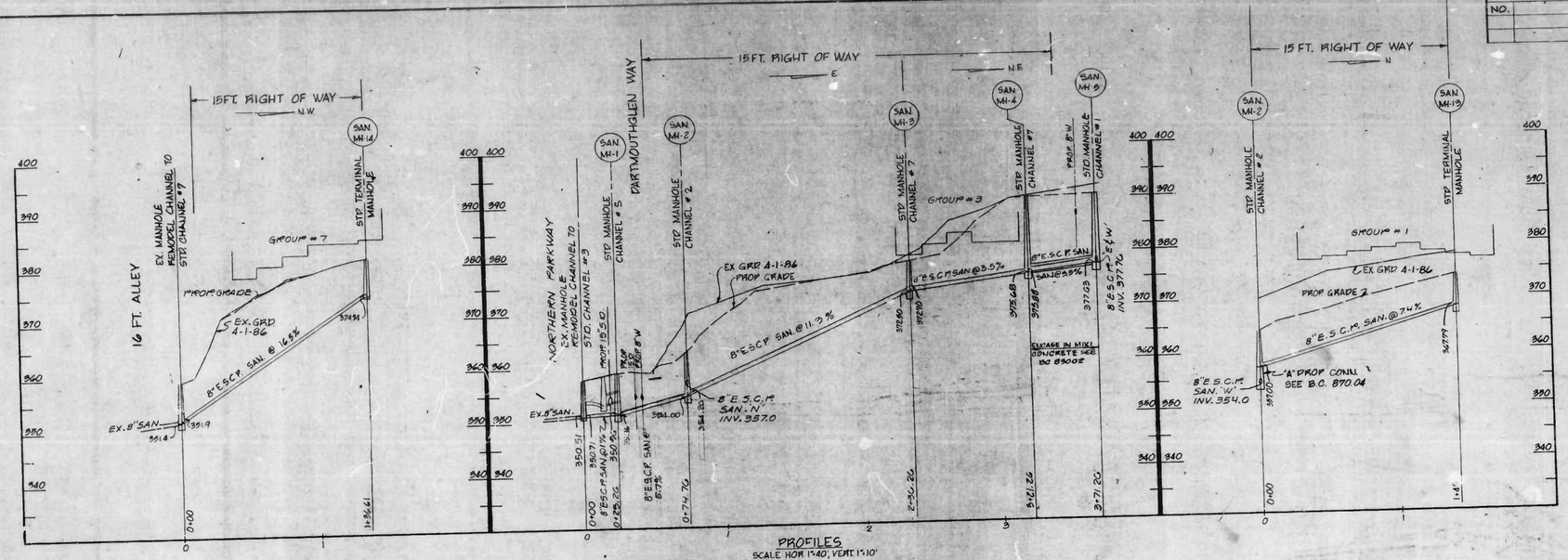
ENGINEER:
STV/LYON ASSOCIATES
21 GOVERNOR'S COURT
BALTIMORE, MD 21207

Misc # 3 - 1986 W.W.D. 80 - 47275

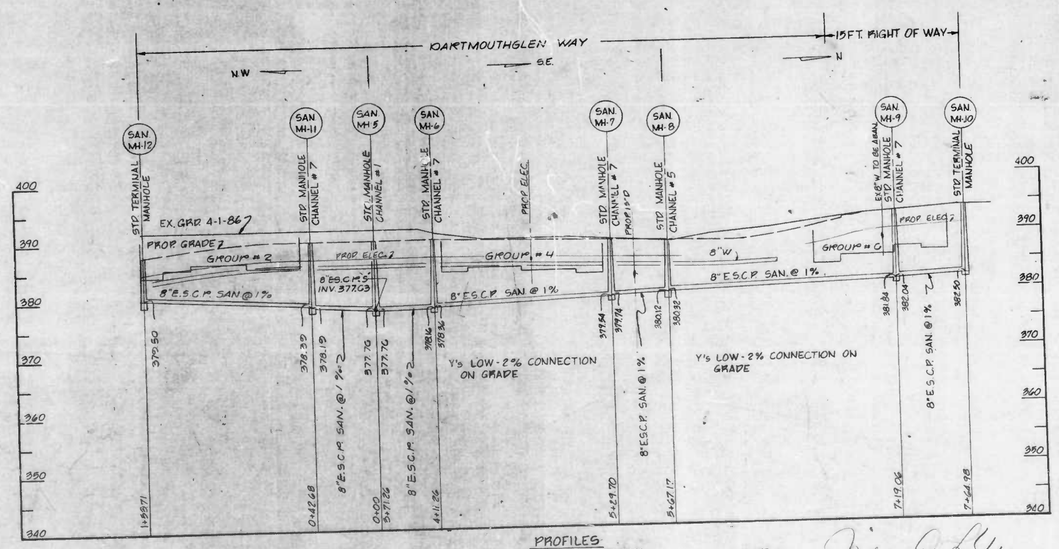
RATIO - 24

W.W.D. 80-47276

REVISIONS			
NO.	DESCRIPTION	DATE	BY



PROFILES
SCALE: HOR. 1"=40', VERT. 1"=10'



PROFILES
SCALE: HOR. 1"=40', VERT. 1"=10'

RELEASED BY R.O.W. DIVISION _____
PLATS _____ DRAINAGE DIST _____

CITY OF BALTIMORE
DEPARTMENT OF PUBLIC WORKS
BUREAU OF WATER AND WASTE WATER
SANITARY SEWER, TO BE BUILT IN DARTMOUTHGLEN WAY, 16 FOOT ALLEY AND 15 FOOT RIGHTS OF WAY BY DARTMOUTH GLEN LIMITED PARTNERSHIP

PROFILES

SCALE: AS SHOWN | DATE: 8-5-86
WASTE WATER ENGINEERING DIVISION | SHEET 2 OF 2

WASTE WATER ENGINEERING DIVISION

BUREAU OF WATER AND WASTE WATER

DIRECTOR OF PUBLIC WORKS

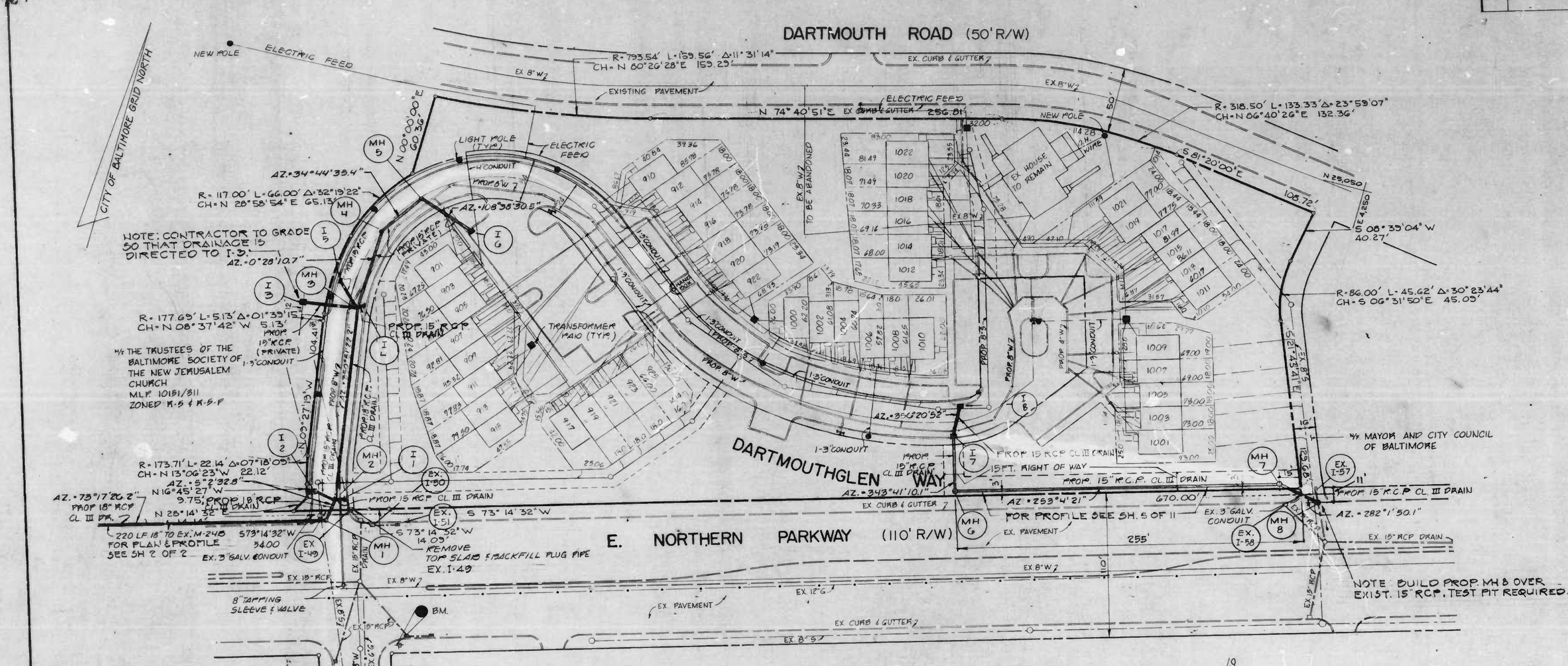
ENGINEER
STV/LYON ASSOCIATES
21 GOVERNOR'S COURT
BALTIMORE, MD. 21207

Misc #3-1986 W.W.D. 80-47276

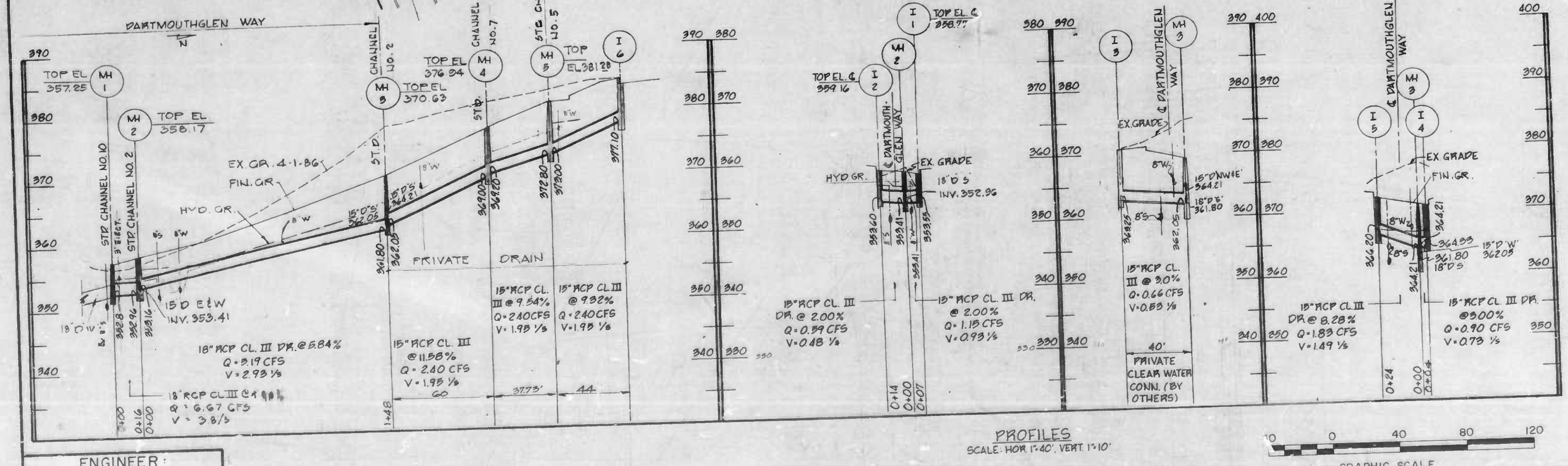
RATIO - 24

FILE REF ESD 80-340

REVISIONS			
NO.	DESCRIPTION	DATE	BY
1	REVISED SLOPES	11/6/86	JEF

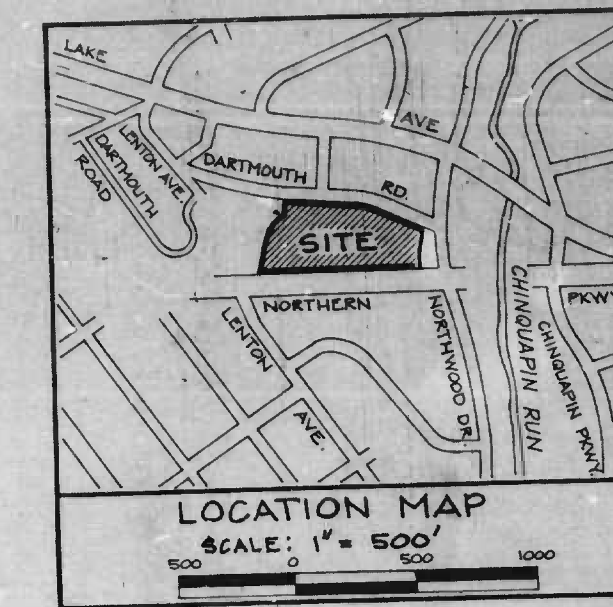


PLAN
SCALE: 1"=40'



PROFILES
SCALE: HOR. 1"=40', VERT. 1"=10'

GRAPHIC SCALE



LOCATION MAP
SCALE: 1" = 500'

BENCH MARK: B.C. 8618
DESCRIPTION: BRASS SCREW IN N.W. CORNER OF CON. BASE FOR STREET LIGHT, AT S.E. CORNER NORTHERN PKWY + LENTON AVE. 0.3' N. EDGE, 0.3' W. EDGE.
ELEV. 360.214

GENERAL NOTES:

ALL CHANNELS IN MANHOLES MUST BE CONSTRUCTED TO CONFORM AS CLOSE AS POSSIBLE TO THE STANDARD CHANNAL CALLED FOR ON THE PROFILES.
GRAVEL CRADLE IS REQUIRED UNDER ALL PIPE EXCEPT INLET CONNECTIONS. ALL BACKFILL SHALL BE MECHANICALLY TAMPED. FOR STANDARD DETAILS SEE BALTIMORE CITY BOOK OF STANDARDS.

OBSTRUCTION SHOWN ON THESE DRAWINGS ARE FOR THE CONVENIENCE OF THE CONTRACTOR ONLY AND THE CITY DOES NOT WARRANT OR GUARANTEE THE CORRECTNESS OR THE COMPLETNESS OF THE INFORMATION GIVEN. THE CONTRACTOR MUST VERIFY ALL SUCH INFORMATION TO HIS OWN SATIAFACTION.

BEFORE DOING ANY DIGGING NOTIFY THE FOLLOWING
BUREAU OF HIGHWAYS
STREET LIGHTING SECTION 396-1311, CONDUIT SECTION 396-3658, (MISS UTILITY) 559-0100

COMPRESSION TYPE JOINTS MEETING A.S.T.M. SPEC. C-443-70 SHALL BE USED.

COORDINATE TABLE

No	NORTH	EAST
MH-1	24,605.00	3585.00
MH-2	24,622.00	3586.50
MH-3	24,768.00	3563.00
MH-4	24,829.00	3563.50
MH-5	24,860.00	3585.00
I-6	24,846.00	3626.50
I-8	24,813.50	4007.50
I-7	24,790.00	4009.00
MH-6	24,749.00	4021.00
MH-7	24,819.00	4251.00
MH-8	24,812.50	4281.50
EX. MH-248	24,547.93	3394.89

RECORD PLAT 39EE, 41EE, DRAINAGE DIST. H1-B
RELEASED BY R. OF W. DIVISION

CITY OF BALTIMORE
DEPARTMENT OF PUBLIC WORKS
BUREAU OF HIGHWAYS

STORM DRAIN, TO BE BUILT IN DARTMOUTHGLEN WAY AND E. NORTHERN PARKWAY BY DARTMOUTH GLEN LIMITED PARTNERSHIP.

SCALE: AS SHOWN DATE: AUG. 4, 1986
ENVIRONMENTAL SERVICES DIVISION SHEET 4 OF 11

ENGINEER:
STV/LYON ASSOCIATES
21 GOVERNOR'S COURT
BALTIMORE, MD 21207

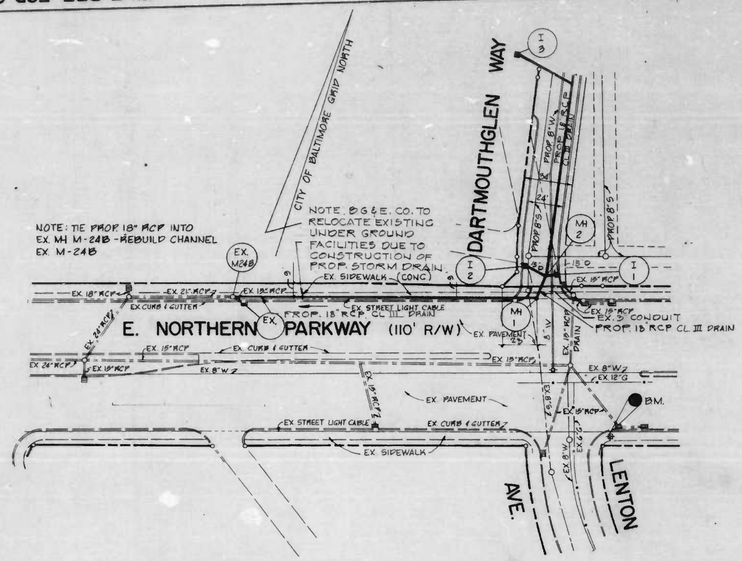
FILE REF. ESD 80-340

Misc #3 -1986

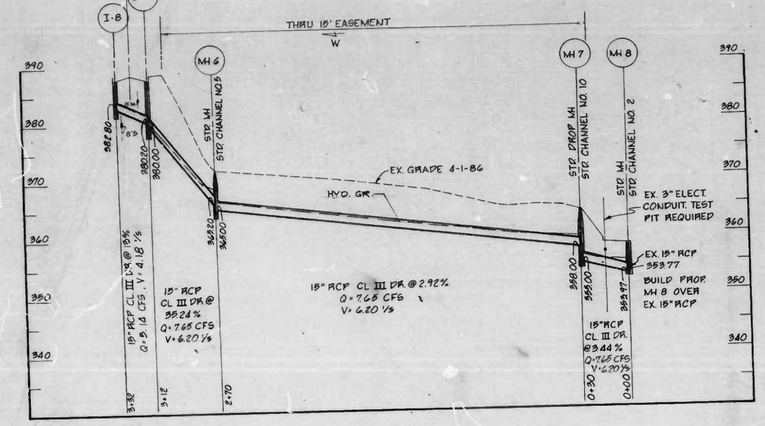
RATIO - 24

FILE REF ESD 80-341

REVISIONS			
NO.	DESCRIPTION	DATE	BY
1	REVISED STRUCTURE SCHEDULE	11/3/86	JEF

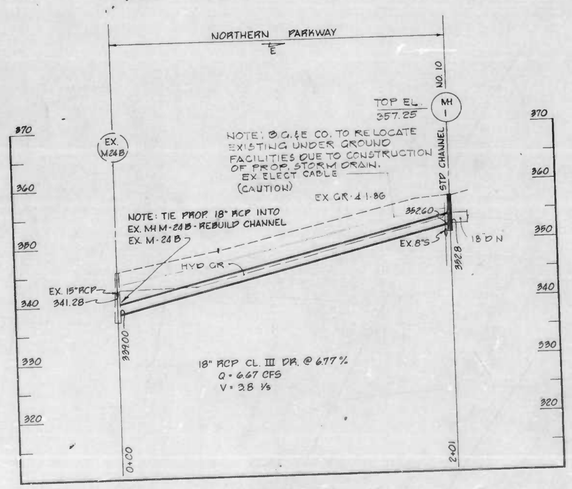


PLAN
SCALE: 1" = 40'



NOTE:
FOR PLAN SEE SHEET NO. 6 OF

PROFILE
SCALE: HOR. 1" = 40', VERT. 1" = 10'



PROFILE
SCALE: HOR. 1" = 40', VERT. 1" = 10'

STRUCTURE SCHEDULE DARTMOUTH GLEN						
No.	TYPE	INV. IN	INV. OUT	TOP EL.	REMARKS	℄ STAT.
I-1	ST'D Type S "Combination Inlet Double Grate Tandem		383.35	UP - 358.98 ℄ - 358.77 DN - 358.89	See B.C. ST'D B.C. - 379.51, 1 of 1	0+64, Rt.
I-2	ST'D Type S Combination Inlet Double Grate Tandem		383.69	UP - 359.34 ℄ - 359.16 DN - 358.98	See B.C. ST'D B.C. - 379.51, 1 of 1	0+70, Lt.
I-3	ST'D Type E		366.00	℄ - 370.80	See B.C. ST'D B.C. - 376.18, 1 of 1 (Private Drain)	
I-4	ST'D Type S Combination Inlet Double Grate Tandem		364.32	UP - 371.88 ℄ - 371.28 DN - 370.98	See B.C. ST'D B.C. - 379.51, 1 of 1	2+12, Rt.
I-5	ST'D Type S Combination Inlet Double Grate Tandem		366.20	UP - 373.18 ℄ - 372.88 DN - 372.58	See B.C. ST'D B.C. - 379.51, 1 of 1	2+28, Lt.
I-6	ST'D Type S Combination Inlet Double Grate Tandem		377.10	℄ - 384.2	See B.C. ST'D B.C. - 379.51, 1 of 1 (Private Drain)	
I-7	ST'D Type S Combination Inlet Double Grate Tandem	380.20	380.00	℄ - 388.48	See B.C. ST'D B.C. - 379.51, 1 of 1	7+73.33, Rt.
M-1	ST'D Storm Manhole	352.80	352.60	357.25	See B.C. ST'D B.C. - 383.01	0+48, 4' Lt.
M-2	ST'D Storm Manhole	353.16	352.96	358.17	See B.C. ST'D B.C. - 383.01	0+62, 23' Rt.
M-3	ST'D Storm Manhole	362.05	361.80	370.63	See B.C. ST'D B.C. - 383.01	2+11, 6' Rt.
M-4	ST'D Storm Manhole	362.20	362.00	370.74	See B.C. ST'D B.C. - 383.01	2+73, 2' Rt.
M-5	ST'D Storm Manhole	379.00	378.80	381.28	See B.C. ST'D B.C. - 383.01	3+15, 2' Rt.
M-6	ST'D Storm Manhole	362.20	362.00	Set Top In Field	See B.C. ST'D B.C. - 383.01	
M-7	ST'D Storm Manhole	358.00	355.00	Set Top In Field	See B.C. ST'D B.C. - 383.03	
M-8	ST'D Storm Manhole	358.77	358.77	Set Top In Field	See B.C. ST'D B.C. - 383.01	
Ex. M24B	Make Tie With Prop 21" D Rebuild Channel	339.00	338.79	Set Top In Field		
I-8	ST'D Type S Combination Inlet Double Grate Tandem		388.80	388.50	See B.C. ST'D B.C. - 379.51, 1 of 1	7+85.33 Lt.

RECORD PLAT 39 EE & 41 EE DRAINAGE DIST. H1-B
RELEASED BY R. OF W. DIVISION

CITY OF BALTIMORE
DEPARTMENT OF PUBLIC WORKS
BUREAU OF HIGHWAYS

STORM DRAIN, TO BE BUILT IN DARTMOUTHGLEN WAY AND E. NORTHERN PARKWAY BY DARTMOUTH GLEN LIMITED PARTNERSHIP

SCALE: AS SHOWN DATE: 8-5-80
ENVIRONMENTAL SERVICES DIVISION | SHEET 5 OF 11

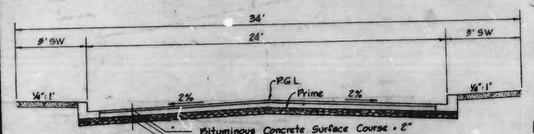
ENGINEER:
STV/LYON ASSOCIATES
21 GOVERNOR'S COURT
BALTIMORE, MD. 21207

FILE REF. ESD 80-341

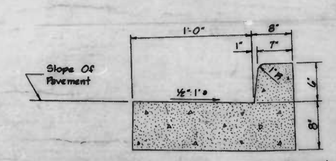
Misc #3-1986

RATIO - 24

FILE REF.



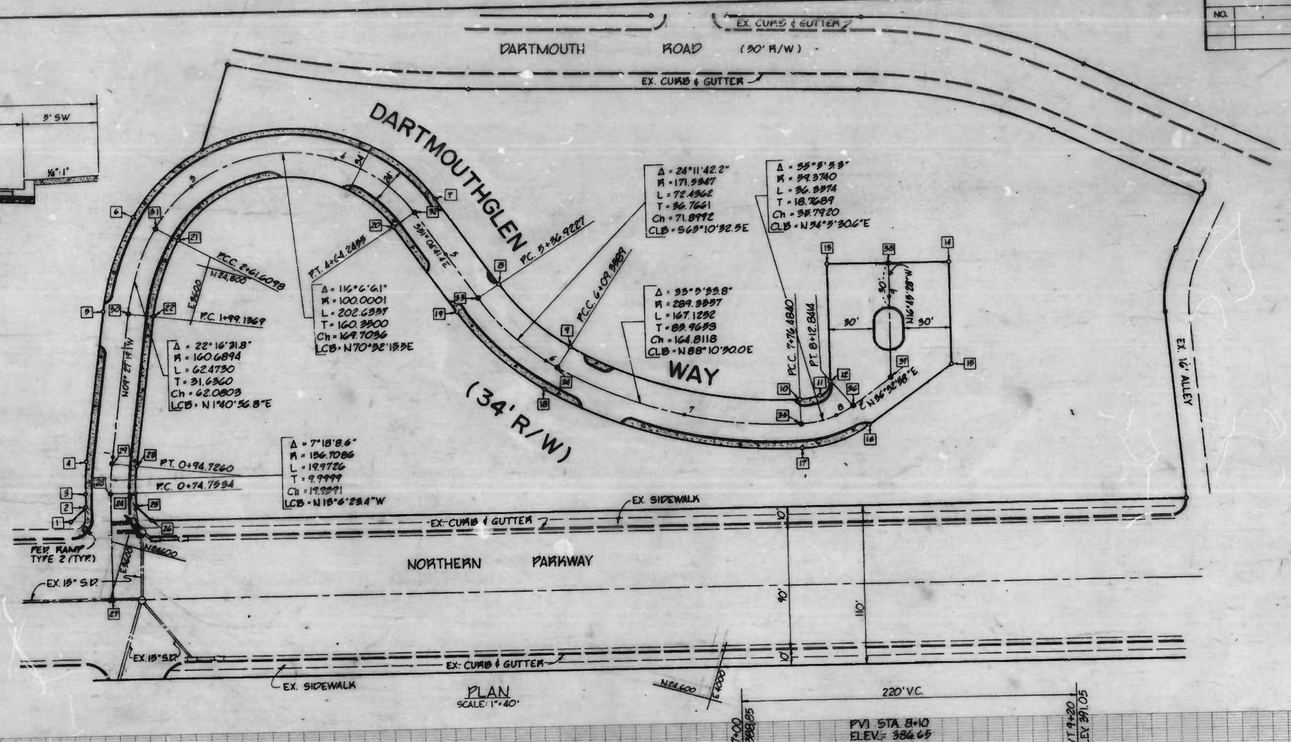
TYPICAL PAVING SECTION
No Scale



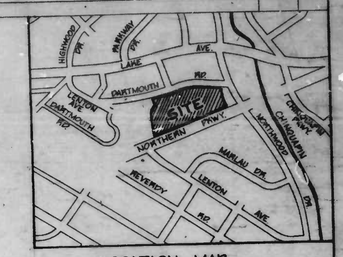
* Gutter Slope On High Side Of Superelevated Pavement To Be Same As Slope Of Pavement.

STANDARD TYPE A COMBINATION CURB & GUTTER
No Scale

GENERAL NOTES:
A. OBSTRUCTIONS SHOWN ON THIS DRAWING ARE FOR THE CONVENIENCE OF THE CONTRACTOR ONLY AND THE CITY DOES NOT WARRANT OR GUARANTEE THE CORRECTNESS OR THE COMPLETNESS OF THE INFORMATION GIVEN. THE CONTRACTOR MUST VERIFY ALL SUCH INFORMATION TO HIS OWN SATISFACTION.



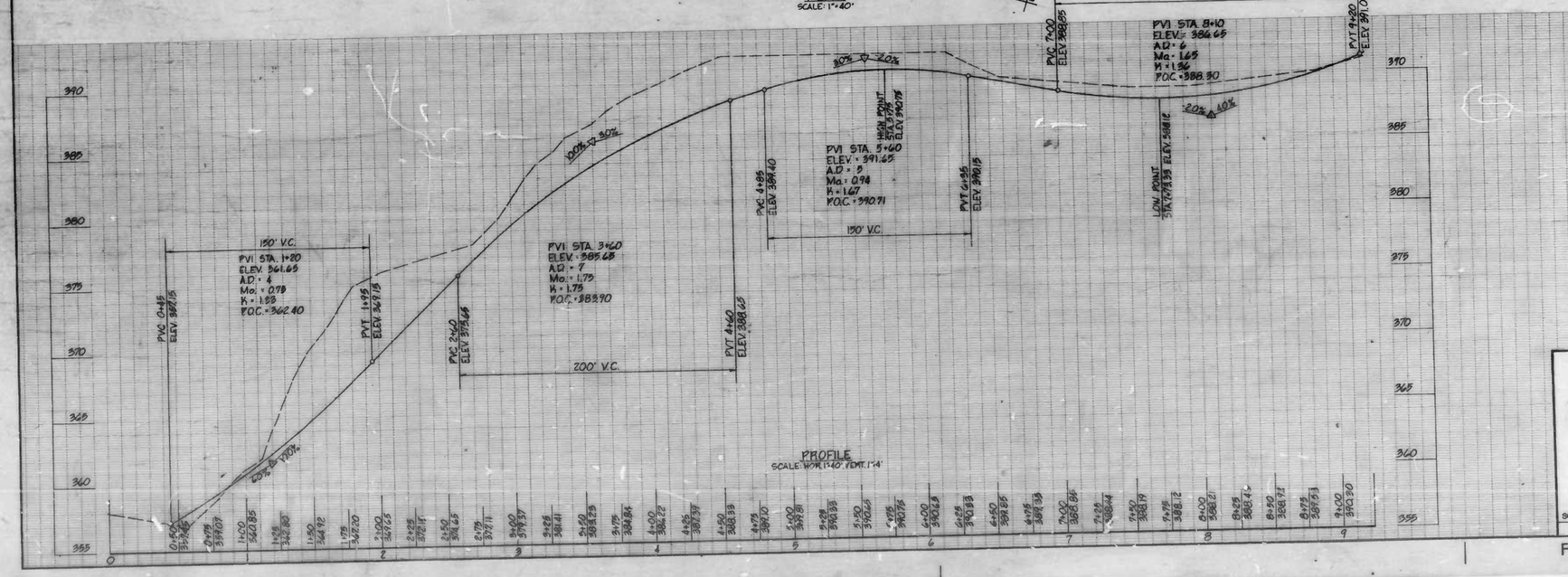
PLAN
SCALE: 1" = 40'



LOCATION MAP
SCALE: 1" = 800'

REVISIONS			
NO.	DESCRIPTION	DATE	BY

COORDINATE TABLE					
No.	NORTH	EAST	No.	NORTH	EAST
			22	24,797.89	3,974.87
1	24,609.96	3,969.66	23	24,694.81	3,972.22
2	24,618.42	3,966.81	24	24,697.16	3,970.08
3	24,621.16	3,962.20	25	24,628.22	3,918.87
4	24,649.51	3,898.48	26	24,621.95	3611.92
5	24,792.30	3,941.99	27	24,951.08	3,601.99
6	24,820.92	3,949.94	28	24,692.66	3,277.76
7	24,884.98	3,750.99	29	24,692.10	3,278.89
8	24,840.92	3,787.49	30	24,785.04	3,278.10
9	24,811.10	3,848.28	31	24,817.16	3,594.92
10	24,816.08	4,000.98	32	24,872.76	3,730.28
11	24,822.09	4,011.99	33	24,827.10	3,776.80
12	24,832.98	4,018.66	34	24,794.28	3,850.96
13	24,910.90	3,992.20	35	24,794.87	4,008.67
14	24,933.97	4,068.80	36	24,820.88	4,094.68
15	24,864.98	4,087.27	37	24,846.21	4,093.48
16	24,810.79	4,065.98	38	24,922.49	4,090.80
17	24,789.79	4,011.04			
18	24,778.21	3,890.66			
19	24,815.87	3,766.12			
20	24,894.99	3,704.97			
21	24,819.98	3,976.90			



GRAPHIC SCALE
40 0 40 80 120

CITY OF BALTIMORE
DEPARTMENT OF PUBLIC WORKS
BUREAU OF HIGHWAYS

ROAD PLAN AND PROFILE
DARTMOUTHGLEN WAY STA. 0+00 TO STA. 9+23
BY DARTMOUTH GLEN LIMITED PARTNERSHIP

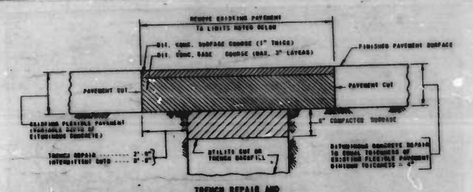
SCALE: AS SHOWN
DATE: 8-5-86
SHEET 1 OF 11

FILE REF.

Misc #3-1986

RATIO - 24

FILE REF.



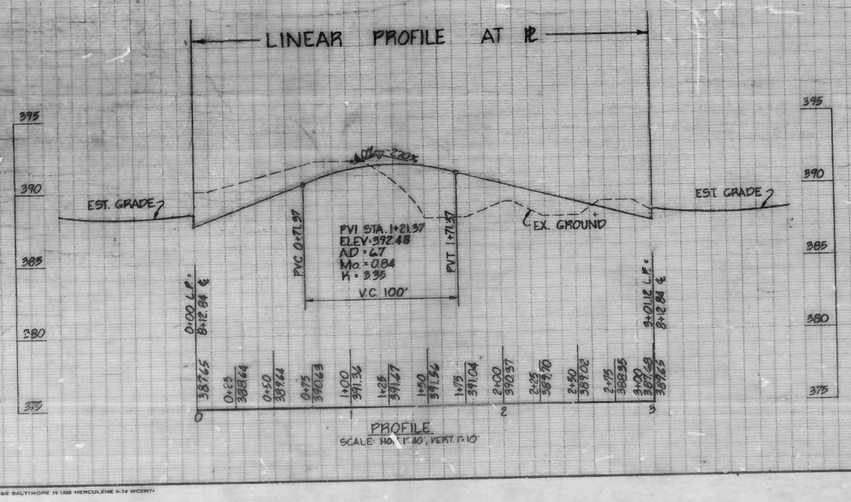
TRENCH REPAIR AND
INTERMITTENT UTILITY CUTS

THIS DETAIL IS APPLICABLE TO THE REPAIR OF TRENCHES AND INTERMITTENT UTILITY CUTS IN EXISTING FULL DEPTH FLEXIBLE PAVEMENT.

SEE STANDARD DE 575.18 (SHT. 2 OF 2) FOR CONSTRUCTION NOTES AND OTHER REQUIREMENTS.

STREET CUT AND REPAIR
FULL DEPTH
FLEXIBLE PAVEMENT
STANDARD NO. DE-575.18

REVISIONS			
NO.	DESCRIPTION	DATE	BY



PROFILE
SCALE: HOR. 1" = 40', VERT. 1" = 10'

CITY OF BALTIMORE
DEPARTMENT OF PUBLIC WORKS
BUREAU OF ENGINEERING

LINEAR PROFILE AT ℞
DARTMOUTHGLEN WAY STA. 0+00 TO STA. 3+01.12
BY DARTMOUTH GLEN LIMITED PARTNERSHIP

SCALE AS SHOWN | DATE: JUNE 20, 1986 | SHEET 8 OF 11

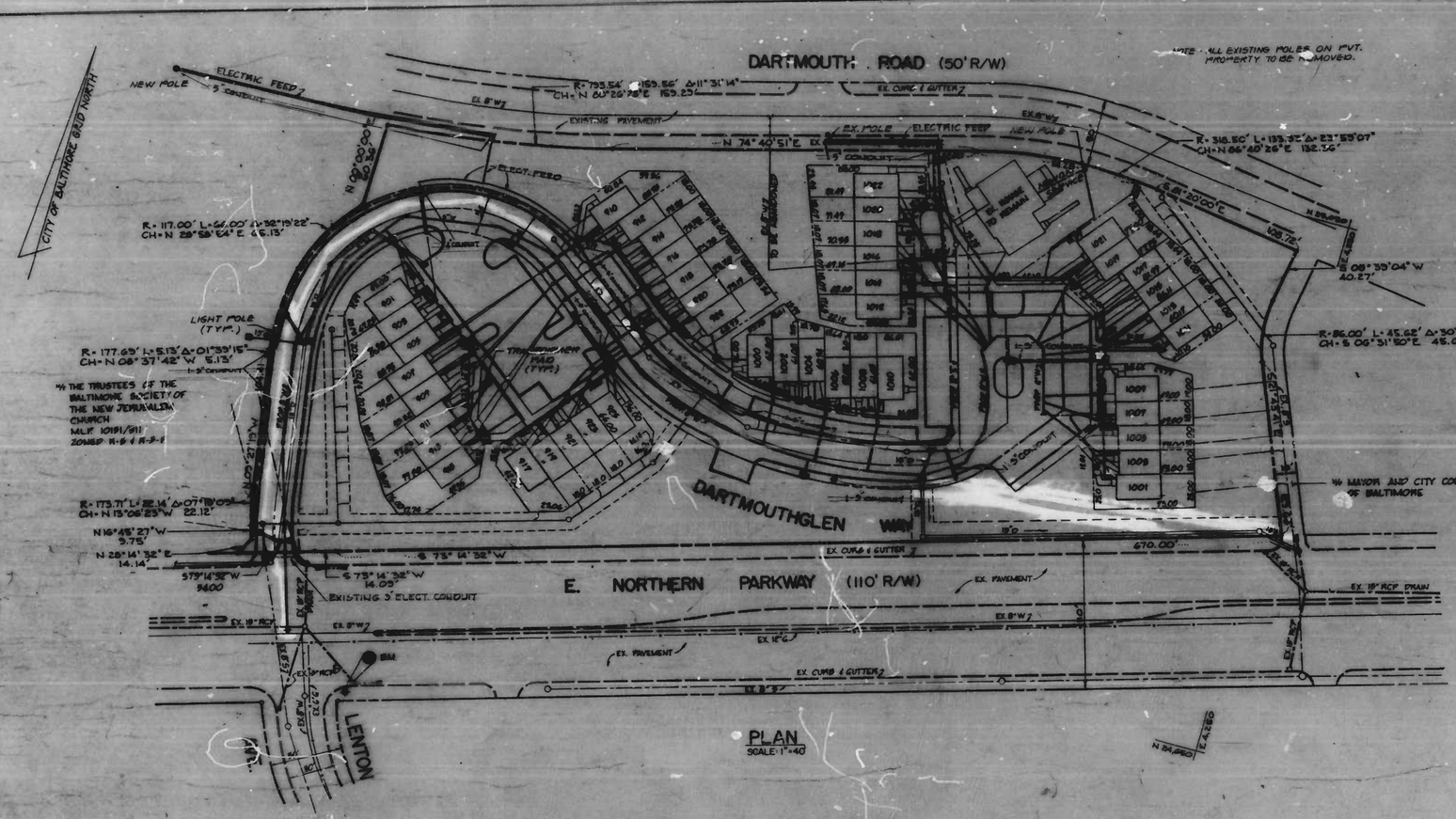
FILE REF.

Misc #3-1986

K&E BALTIMORE 19-1288 HERCULENE 8-74 MADE IN U.S.A.

RATIO - 24

REVISIONS		
NO.	DESCRIPTION	



LEGEND
- 11'G AL. POLES WITH 150 WATT SODIUMS - TOTAL 11 EA.
- 3" PVC. DUCT - TOTAL CROSSINGS 3
- #2 AL ST. LT. CABLE - DIRECT BURIED
- TRANSFORMER PAD

40 0 40 80 120
GRAPHIC SCALE

CITY OF BALTIMORE
DEPARTMENT OF PUBLIC WORKS
STREET LIGHTING SYSTEM TO BE BUILT IN DARTMOUTHGLEN WAY

SCALE: AS SHOWN DATE: 8-5-86
ENVIRONMENTAL SERVICES DIVISION SHEET 7 OF 11
STREET LIGHTING SECTION

ENGINEER:
STV/LYON ASSOCIATES
21 GOVERNOR'S COURT
BALTIMORE, MD 21207

Misc #3-1986

RATIO - 24

Trap number. NO.1
Type of trap. STONE OUTLET SEDIMENT TRAP
Size of drainage area (in acres). 2.2 AC.
Storage required. 2.2 (AC.) x 67 = 147 C.Y.
Storage provided. 20' x 68' x 3' ÷ 27 = 151.1 C.Y.
Bottom dimensions 17' x 68'
Outlet size. 4' x 2.2 (DIA.) = 8.8'
Bottom elevation. 371.0
Outlet elevation. 374.0
Clean-out elevation. 372.8
Embankment elevation 375.0
LENGTH OF WEIR OUTLET -17'
APRON WIDTH - 8.8'
APRON LENGTH - 2'

CITY OF BALTIMORE GRID NORTH

STANDARD AND SPECIFICATIONS FOR SUMP PIT

Definition

A temporary pit which is constructed to trap and dilute water for pumping to a suitable discharge area.

Purpose

To remove concentrated water from excavations.

Conditions Where Practice Applies

Sump pits are constructed with water collects during the excavation phase of construction. This practice is particularly useful in areas cut during excavation for building foundations.

Design Criteria

The number of sump pits and their location shall be determined by the contractor. A design is not required but construction should conform to the general criteria outlined on Standard Drawing SP-1.

A perforated vertical standpipe is placed in the center of the pit to collect filtered water. Water is then pumped from the center of the pipe to a suitable discharge area.

Drainage of water around from the standpipe should be to a contour trap, contour berm or other drainage system. Where stone (Size#3 to 1, Poly Filter Cloth) is used to stabilize the area, silt fence (Std. SP-2) should be used to prevent the discharge of sediment from the pit.

Sump pits should be located in areas where water discharge. It is recommended that 1/8-1/4 leaf hardware cloth be secured around and covered to the standpipe prior to attaching the filter cloth. This will increase the rate of water seepage into the standpipe.

SUMP PIT

GENERAL NOTES (CON'T):

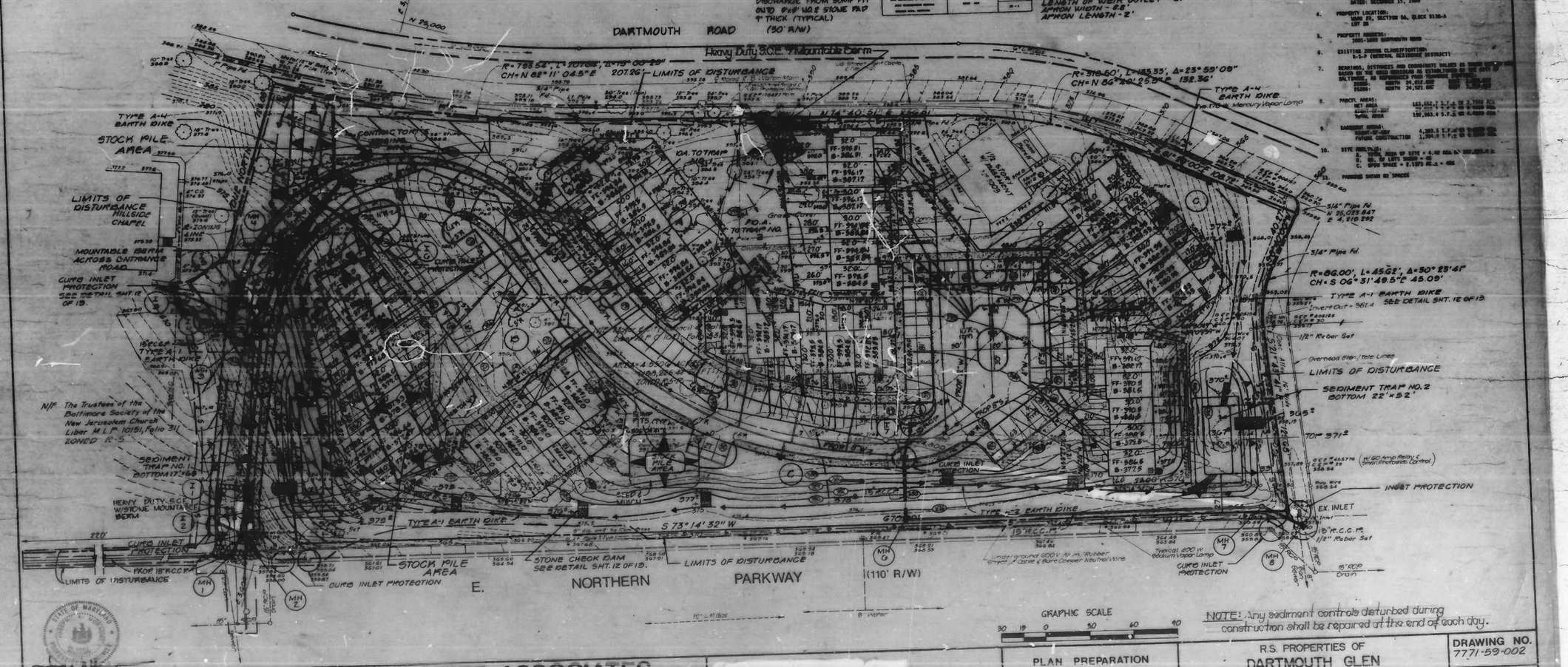
12. PUBLIC WATER AND SEWER AVAILABLE.
13. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH BALTIMORE CITY STANDARDS AND SPECIFICATIONS.
14. NOTIFY MESS "UTILITY" [illegible] PRIOR TO THE START OF CONSTRUCTION.
15. CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING UTILITIES PRIOR TO MAKING OPERATION.

Trap number. NO.2
Type of trap. STONE OUTLET SEDIMENT TRAP
Size of drainage area (in acres). 2.2 AC.
Storage required. 2.2 (AC.) x 67 = 147 C.Y.
Storage provided. 25' x 95' x 3' = 192.8 C.Y.
Bottom dimensions 22' x 32'
Outlet size. 4' x (2.2) = 8.8'
Bottom elevation. 367.0
Outlet elevation. 370.0
Clean-out elevation. 368.8
Embankment elevation 371.0
LENGTH OF WEIR OUTLET -21'
APRON WIDTH - 8.8'
APRON LENGTH - 2'

LOCATION MAP
SCALE: 1" = 800'

GENERAL NOTES:

1. PROPERTY OWNER: MAYOR AND CITY COUNCIL OF BALTIMORE
2. GEOD REFERENCE: B/M MAYOR AND CITY COUNCIL OF BALTIMORE J.F.C. 1000/201
3. PLAT REFERENCE: CITY OF BALTIMORE DIVISION OF SURVEYS AND RECORDS FILE REFERENCE: 133-5-11 DATED: DECEMBER 15, 1899
4. PROPERTY LOCATION: WARD 27, SECTION 56, BLOCK 5138-A - LOT 28
5. PROPERTY ADDRESS: 1001-1003 DARTMOUTH ROAD
6. EXISTING ZONING CLASSIFICATION: R-5-F (GENERAL RESIDENCE DISTRICT)
7. BEARINGS, DISTANCES AND COORDINATE VALUES AS SHOWN HEREON ARE BASED ON THE GRID BEARINGS AS ESTABLISHED BY THE CITY OF BALTIMORE, AS REFERENCED FROM MONUMENTS [illegible]
   EASTING: NORTH 24,012.000
   EASTING: NORTH 24,021.000
8. PARCEL AREAS:
   NET AREA: [illegible]
   [illegible]
   TOTAL AREA 192,383.4 S.F. [illegible]
9. EASEMENT AREAS:
   [illegible]
   FUTURE CONSTRUCTION [illegible]
10. SITE DATA:
   A. TOTAL AREA OF SITE = 4.42 ACS. [illegible]
   B. NO. OF LOTS [illegible]
   C. GROS DENSITY = 2.1373 DU.S. [illegible]
11. PARKING SHOWN ON SPACES



NOTE: Any sediment controls disturbed during construction shall be repaired at the end of each day.

STATE OF MARYLAND

STV / LYON ASSOCIATES
Engineers Surveyors Planners
21 Governor's Court Baltimore, Maryland 21207
Telephone 301-944-9112

CROZIER ASSOCIATES
LANDSCAPE ARCHITECTURE / LAND PLANNING
MILL CENTRE · SUITE 400
3000 CHESTNUT AVE. · BALTIMORE · MD · 21211 301-366-3330

SEDIMENT CONTROL PLAN

PLAN PREPARATION	
DRAWN BY E.A.S.	DATE 8-5-86
DESIGNED BY E.A.S.	SCALE 1"=50'
CHECKED BY T.C.	Rev 3/10/87

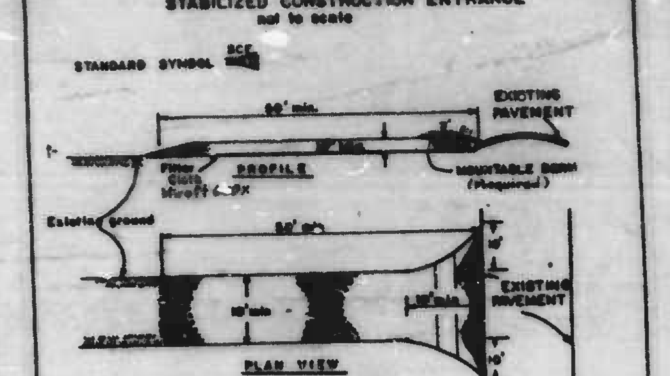
R.S. PROPERTIES OF
DARTMOUTH GLEN
No. 1001-1003 DARTMOUTH ROAD E. NORTHERN PARKWAY
BALTIMORE, MARYLAND
LOT 28, BLOCK 5138-A, SECTION 56, WARD 27

DRAWING NO. 7771-59-002
SHEET NO. 10 of 11

Misc #3-1986

RATIO - 24

STABILIZED CONSTRUCTION ENTRANCE
not to scale



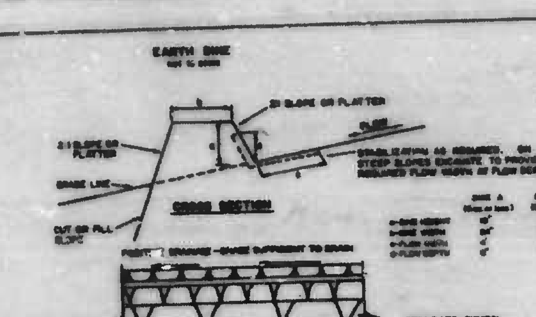
CONSTRUCTION SPECIFICATIONS

1. Stone Size - Use 2" stone, or reclaimed or recycled concrete equivalent.
2. Length - As required, but not less than 50 feet (except on a single residence lot where a 30 foot minimum length would apply).
3. Thickness - Not less than six (6") inches.
4. Width - Ten (10) foot minimum, but not less than the full width at points where ingress or egress occurs.
5. Filter Cloth - Will be placed over the entire area prior to placing of stone. Filter will not be required on a single family residence lot.
6. Surface Water - All surface water flowing or diverted toward construction entrances shall be piped across the entrance. If piping is impractical, a mountable berm with 5:1 slopes will be permitted.
7. Maintenance - The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto public rights-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or cleanout of any measures used to trap sediment. All sediment spilled, dropped, washed or tracked onto public rights-of-way must be removed immediately.
8. Washing - Wheels shall be cleaned to remove sediment prior to entrance onto public rights-of-way. When washing is required, it shall be done on an area stabilized with stone and which drains into an approved sediment trapping device.
9. Periodic inspection and needed maintenance shall be provided after each rain.

U. S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE College Park, Md. | STABILIZED CONSTRUCTION ENTRANCE | Standard Drawing SCE-1

14.03

EARTH DIKE
not to scale



CONSTRUCTION SPECIFICATIONS

1. All dikes shall be compacted by earth-moving equipment.
2. All dikes shall have positive drainage to an outlet.
3. Top width may be wider and side slopes may be flatter if desired to facilitate crossing by construction traffic.
4. Field location should be adjusted as needed to utilize a stabilized safe outlet.
5. Earth dikes shall have an outlet that functions with a minimum of erosion. Runoff shall be conveyed to a sediment trapping device such as a sediment trap or sediment basin where either the dike channel or the drainage area above the dike are not adequately stabilized.
6. Stabilization shall be: (a) in accordance with standard specification for seed and straw mulch or straw mulch if not in seeding season, (b) flow channel as per the chart below.

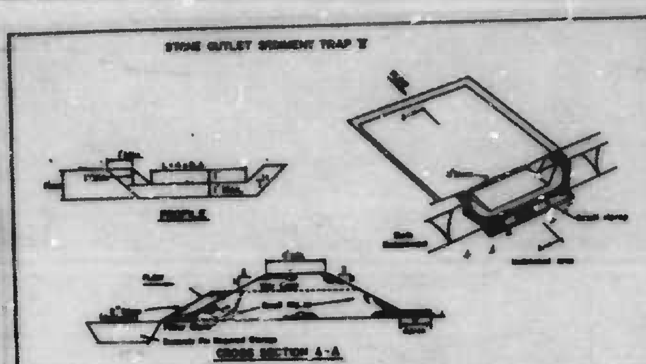
FLOW CHANNEL STABILIZATION

TYPE OF TREATMENT	CHANNEL GRADE	DIKE A	DIKE B
1	.5-3.0%	Seed and Straw Mulch	Seed and Straw Mulch
2	3.1-5.0%	Seed and Straw Mulch	Seed using Jute, or Excelsior; Sod; 2" Stone
3	5.1-8.0%	Seed with Jute, or Sod; 2" Stone	Lined Rip-Rap 4-8"
4	8.1-20%	Lined Rip-Rap 4-8"	Engineering Design

A. Stone to be 2 inch stone, or recycled concrete equivalent, in a layer at least 3 inches in thickness and be pressed into the soil with construction equipment.
B. Rip-rap to be 4-8 inches in a layer at least 8 inches thick and pressed into the soil.
C. Approved equivalents can be substituted for any of the above materials.
7. Periodic inspection and required maintenance must be provided after each rain event.

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE COLLEGE PARK, MARYLAND | EARTH DIKE | STANDARD DRAWING ED-1

STONE OUTLET SEDIMENT TRAP II



OPTION: A one foot layer of 2" stone may be placed on the upstream side of the riprap in place of the embedded filter cloth.

SEDIMENT TRAP CONSTRUCTION SPECIFICATIONS

1. Area under embankment shall be cleared, grubbed and stripped of any vegetation and root mat. The pool area shall be cleared.
2. The fill material for the embankment shall be free of roots and other woody vegetation as well as over-sized stones, rocks, organic material or other objectionable material. The embankment shall be compacted by traversing with equipment while it is being constructed.
3. All cut and fill slopes shall be 2:1 or flatter.
4. The stone used in the outlet shall be small riprap 4"-8" along with a 1' thickness of 2" aggregate placed on the upgrade side on the small riprap or embedded filter cloth in the riprap.
5. Sediment shall be removed and trap restored to its original dimensions when the sediment has accumulated to ½ the design depth of the trap.
6. The structure shall be inspected after each rain and repairs made as needed.
7. Construction operations shall be carried out in such a manner that erosion and water pollution is minimized.
8. The structure shall be removed and the area stabilized when the drainage area has been properly stabilized.

Maximum Drainage Area: 5 Acres

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE COLLEGE PARK, MARYLAND | STONE OUTLET SEDIMENT TRAP | STANDARD DRAWING ST-II

PERMANENT SEEDING NOTES

Apply to graded or cleared areas not subject to immediate further disturbance where a permanent long-lived vegetative cover is needed.

Seedbed Preparation: Loosen upper three inches of soil by raking, discing or other acceptable means before seeding.

Soil Amendments: In lieu of soil test recommendations, use one of the following schedule:

1) Preferred - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 square ft) and 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq ft) before seeding. Harrow or disc into upper three inches of soil. At time of seeding, apply 400 lbs per acre 30-0-0 ureaform fertilizer (9 lbs/1000 sq ft).

2) Acceptable - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 sq ft) and 1000 lbs per acre 10-10-10 fertilizer (23 lbs/1000 sq ft) before seeding. Harrow or disc into upper three inches of soil.

Seeding - For the periods March 1 thru April 30, and August 1 thru October 15, seed with 60 lbs per acre (1.4 lbs/1000 sq ft) of Kentucky 31 Tall Fescue. For the period May 1 thru July 31, seed with 60 lbs Kentucky 31 Tall Fescue per acre and 2 lbs per acre (.05 lbs/1000 sq ft) of weeping lovegrass. During the period of October 16 thru February 28, protect site by: Option (1) 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring. Option (2) Use sod. Option (3) Seed with 60 lbs/acre Kentucky 31 Tall Fescue and mulch with 2 tons/acre well anchored straw.

Mulching - Apply 1½ to 2 tons per acre (70 to 90 lbs/1000 sq ft) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gallons per acre (5 gal/1000 sq ft) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gallons per acre (8 gal/1000 sq ft) for anchoring.

Maintenance - Inspect all seeded areas and make needed repairs, replacements and reseedings.

TEMPORARY SEEDING NOTES

Apply to graded or cleared areas likely to be redisturbed where a short-term vegetation cover is needed.

Seedbed Preparation: Loosen upper three inches of soil by raking, discing or other acceptable means before seeding.

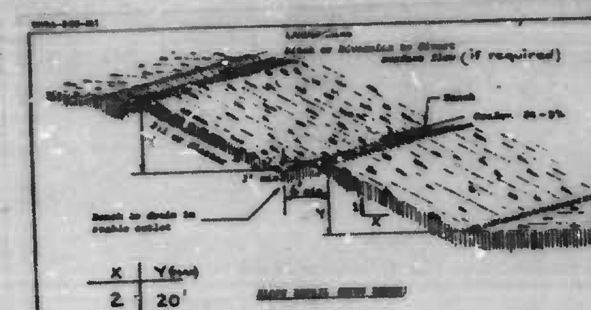
Soil Amendments: Apply 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq ft)

Seeding: For periods March 1 thru April 30 and from August 15 thru November 15, seed with 2½ bushel per acre of annual rye (3.2 lbs/1000 sq ft). For the period May 1 thru August 14, seed with 3 lbs per acre of weeping lovegrass (.07 lbs/1000 sq ft). For the period November 16 thru February 28, protect site by applying 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring, or use sod.

Mulching: Apply 1½ to 2 tons per acre (70 to 90 lbs/1000 sq ft) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gal per acre (5 gal/1000 sq ft) of emulsified asphalt on flat areas. On slopes, 8 ft or higher, use 348 gal per acre (8 gal/1000 sq ft) for anchoring.

Refer to the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for rate and methods not covered.

LANDGRADING



X	Y (feet)
2	20'
3	30'
4	40'

Construction Specifications

[illegible]

U. S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE College Park, Md. | LANDGRADING | Standard Drawing LG-1

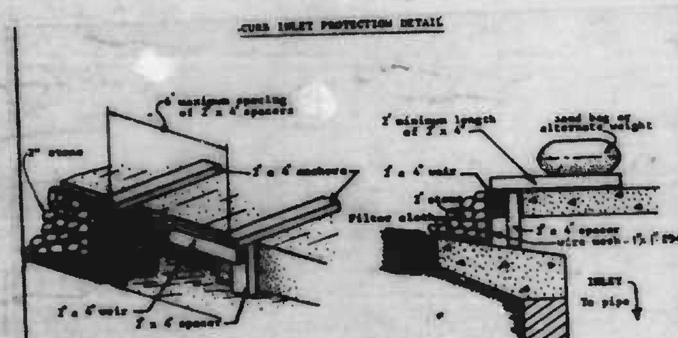
Maryland 900/000 April 1983

CONSTRUCTION SPECIFICATIONS

1. All graded or disturbed areas including slopes shall be protected during clearing and construction in accordance with the approved erosion and sediment control plan until they are adequately stabilized.
2. All erosion and sediment control practices and measures shall be constructed, applied and maintained in accordance with the approved sediment control plan and the "Standards and Specifications for Soil Erosion and Sediment Control".
3. Topsoil required for the establishment of vegetation shall be stockpiled in amount necessary to complete finished grading of all exposed areas.
4. Areas to be filled shall be cleared, grubbed and stripped of topsoil to remove trees, vegetation, roots or other objectionable material.
5. Areas which are to be topsoiled shall be scarified to a minimum depth of three inches prior to placement of topsoil.
6. All fills shall be compacted as required to reduce erosion, slippage, settlement, subsidence or other related problems. Fill intended to support buildings, structures and conduits, etc., shall be compacted in accordance with local requirements or codes.
7. All fill shall be placed and compacted in layers not to exceed 8 inches in thickness.
8. Except for approved landfills or nonstructural fills, fill material shall be free of brush, rubbish, rocks, logs, stumps, building debris and other objectionable materials that would interfere with or prevent construction of satisfactory fills.
9. Frozen material or soft, mucky or highly compressible materials shall not be incorporated into fill slopes or structural fills.
10. Fill shall not be placed on a frozen foundation.
11. All benches shall be kept free of sediment during all phases of development.
12. Seeps or springs encountered during construction shall be handled in accordance with the Standard and Specification for Subsurface Drain or other approved methods.
13. All graded areas shall be permanently stabilized immediately following finished grading.
14. Stockpiles, borrow areas, and spoil areas shall be shown on the plans and shall be subject to the provisions of this Standard and Specifications.

41.04

CURB INLET PROTECTION DETAIL



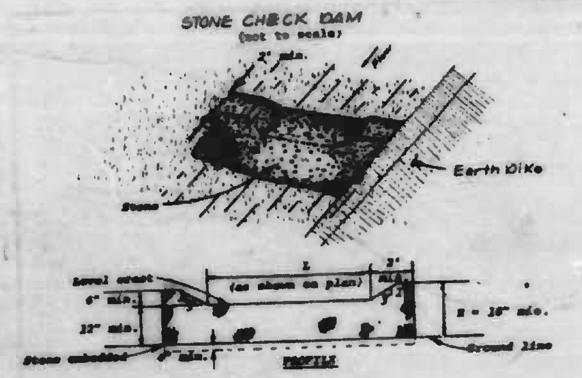
U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE COLLEGE PARK, MARYLAND | INLET PROTECTION DETAIL | STANDARD DRAWING IPD-1

21.04

B. Curb Inlet Protection.

1. Attach a continuous piece of wire mesh (30" min. width by throat length plus 4') to the 2" x 4" weir (measuring throat length plus 2') as shown on the standard drawing.
2. Place a piece of approved filter cloth (40-85 sieve) of the same dimensions as the wire mesh over the wire mesh and securely attach to the 2" x 4" weir.
3. Securely nail the 2" x 4" weir to 9" long vertical spacers to be located between the weir and inlet face (max. 6' apart).
4. Place the assembly against the inlet throat and nail (minimum 2' lengths of 2" x 4" to the top of the weir at spacer locations. These 2" x 4" anchors shall extend across the inlet top and be held in place by sandbags or alternate weight.
5. The assembly shall be placed so that the end spacers are a minimum 1' beyond both ends of the throat opening.
6. Form the wire mesh and filter cloth to the concrete gutter and against the face of curb on both sides of the inlet. Place clean 2" stone over the wire mesh and filter fabric in such a manner as to prevent water from entering the inlet under or around the filter cloth.
7. This type of protection must be inspected frequently and the filter cloth and stone replaced when clogged with sediment.
8. Assure that storm flow does not bypass inlet by installing temporary earth or asphalt dikes directing flow into inlet.

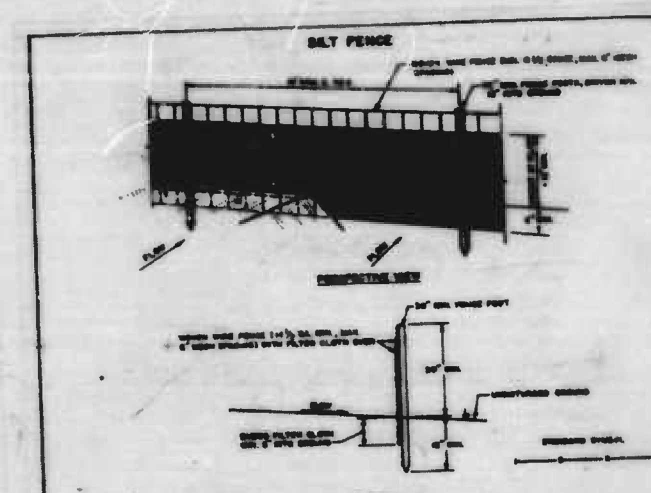
STONE CHECK DAM
(not to scale)



Construction Specifications

1. The stone shall be crushed stone. Gravel may be used if crushed stone is not available. The stone shall meet NSSA Size No. 2 or AASHTO designation M43 Size No. 2 or 24.
2. The crest of the stone dike shall be at least six inches lower than the lowest elevation of the top of the earth dike and shall be level.
3. The stone outlet structure shall be embedded into the soil a minimum of four inches.
4. The minimum length, in feet, of the crest of the stone outlet structure shall be equal to six times the number of acres of contributing drainage area.
5. The stone outlet structure shall be inspected after each rain, and the stone shall be replaced when the structure ceases to function as intended due to silt accumulation among the stones, washout, construction traffic damage, etc.

SILT FENCE



CONSTRUCTION NOTES FOR FABRICATED SILT FENCE

1. Woven wire fence to be fastened securely to fence posts with wire ties or staples.
2. Filter cloth to be fastened securely to woven wire fence with ties spaced every 24" at top and mid section.
3. When two sections of filter cloth adjoin each other they shall be overlapped by six inches and folded.
4. Maintenance shall be performed as needed and material removed when "bulges" develop in the silt fence.

POSTS: Steel either T or U type or 2" hardwood

FENCE: Woven wire, 14½ Ga. 6" Max. Mesh Opening

FILTER CLOTH: Filter X, Mirafi 100X, Stabilinka T140N or approved equal

PREFABRICATED UNIT: Geofab, Envirofence, or approved equal.

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE COLLEGE PARK, MARYLAND | SILT FENCE | STANDARD DRAWING SF-1

STANDARD SPECIFICATIONS FOR SILT FENCE

DEFINITION

A TEMPORARY BARRIER OF GEOTEXTILE FABRIC (FILTER CLOTH) USED TO INTERCEPT SEDIMENT LADEN RUNOFF FROM SMALL DRAINAGE AREAS OF DISTURBED SOIL.

PURPOSE

THE PURPOSE OF A SILT FENCE IS TO REDUCE RUNOFF VELOCITY AND EFFECT DEPOSITION OF TRANSPORTED SEDIMENT LOAD. LIMITS IMPOSED BY ULTRAVIOLET STABILITY OF THE FABRIC WILL DICTATE THE MAXIMUM PERIOD THE SILT FENCE MAY BE USED.

CONDITIONS WHERE PRACTICE APPLIES

A SILT FENCE MAY BE USED SUBJECT TO THE FOLLOWING CONDITIONS:

1. MAXIMUM ALLOWABLE SLOPE LENGTHS CONTRIBUTING RUNOFF TO A SILT FENCE ARE LISTED IN THE TABLE BELOW:

SLOPE STEEPNESS	MAXIMUM SLOPE LENGTH (FT)
2:1	50
3:1	75
4:1	125
5:1	175
FLATTER THAN 5:1	200

2. MAXIMUM DRAINAGE AREA FOR OVERLAND FLOW TO A SILT FENCE SHALL NOT EXCEED 1/2 ACRE PER 100 FEET OF FENCE; AND
3. EROSION WOULD OCCUR IN THE FORM OF SHEET EROSION; AND
4. THERE IS NO CONCENTRATION OF WATER FLOWING TO THE BARRIER.

DESIGN CRITERIA

DESIGN COMPUTATIONS ARE NOT REQUIRED. ALL SILT FENCES SHALL BE PLACED AS CLOSE TO THE CONTOUR AS POSSIBLE, AND THE AREA BELOW THE FENCE MUST BE UNDISTURBED OR STABILIZED.

A DETAIL OF THE SILT FENCE SHALL BE SHOWN ON THE PLAN, AND CONTAIN THE FOLLOWING MINIMUM REQUIREMENTS:

1. THE TYPE, SIZE, AND SPACING OF FENCE POSTS.
2. THE SIZE OF WOVEN WIRE SUPPORT FENCES.
3. THE TYPE OF FILTER CLOTH USED.
4. THE METHOD OF ANCHORING THE FILTER CLOTH.
5. THE METHOD OF FASTENING THE FILTER CLOTH TO THE FENCING SUPPORT.

WHERE ENDS OF FILTER CLOTH COME TOGETHER, THEY SHALL BE OVERLAPPED, FOLDED AND STAPLED TO PREVENT SEDIMENT BYPASS.

SEE STANDARD DRAWING SF-1 FOR DETAILS.

CRITERIA FOR SILT FENCE MATERIALS

1. SILT FENCE FABRIC: THE FABRIC SHALL MEET THE FOLLOWING SPECIFICATIONS UNLESS OTHERWISE APPROVED BY THE APPROPRIATE EROSION AND SEDIMENT CONTROL PLAN APPROVAL AUTHORITY. SUCH APPROVAL SHALL NOT CONSTITUTE STATEWIDE ACCEPTANCE. STATEWIDE ACCEPTABILITY SHALL DEPEND ON IN-FIELD AND/OR LABORATORY OBSERVATIONS AND EVALUATIONS.

FABRIC PROPERTIES	MINIMUM ACCEPTABLE VALUE	TEST METHOD
GRAB TENSILE STRENGHT (LBS)	90	ASTM D1682
ELONGATION AT FAILURE (%)	50	ASTM D1682
MULLEN BURST STRENGTH (PSI)	190	ASTM D3786
PUNCTURE STRENGTH (LBS)	40	ASTM D751 (MODIFIED)
SLURRY FLOW RATE (GAL/MIN/SF)	0.3	VIRGINIA DOT VTM-51
EQUIVALENT OPENING SIZE	40-80	US STD SIEVE CW-02215
ULTRAVIOLET RADIATION STABILITY %	90	ASTM-G-26

2. FENCE POSTS (FOR FABRICATED UNITS): THE LENGTH SHALL BE A MINIMUM OF 36 INCHES LONG. WOOD POSTS WILL BE OF SOUND QUALITY HARDWOOD WITH A MINIMUM CROSS SECTIONAL AREA OF 3.0 SQUARE INCHES. STEEL POSTS WILL BE STANDARD T AND U SECTION WEIGHING NOT LESS THAN 1.00 POUND PER LINEAR FOOT.
3. WIRE FENCE (FOR FABRICATED UNITS): WIRE FENCING SHALL BE A MINIMUM 14-1/4 GAGE WITH A MAXIMUM 6" MESH OPENING, OR AS APPROVED.
4. PREFABRICATED UNITS: ENVIROFENCE OR APPROVED EQUAL MAY BE USED IN LIEU OF THE ABOVE METHOD PROVIDING THE UNIT IS INSTALLED PER MANUFACTURER'S INSTRUCTIONS.

EROSION AND SEDIMENT CONTROL NOTES

NOTES

1. The Contractor will comply with all requirements of Sediment and Erosion Control as set forth in the Baltimore City Sediment Control manual.
2. All sediment controls and critical slopes must be stabilized within seven calendar days. All other disturbed areas on the project site must be stabilized within fourteen calendar days. THAT ALL STOCK PILE AREAS MUST BE STABILIZED WITHIN 7 DAYS.
3. All utilities to be constructed first, prior to any construction on the site.
4. No pumping from foundation excavations will be allowed directly into City system unless it is filtered by way of Sediment Traps or Filter.
5. All excavated material shall be placed on the high side whenever possible and confined to an area where it will not obstruct the normal flow of drainage courses.
6. Continuous inspection and maintenance of all Sediment Control devices will be required.
7. The Contractor shall notify in writing the Baltimore City Sediment Control Representative at least three working days prior to starting any work.
8. On all sites with disturbed areas in excess of 2 acres, the permittee shall request that a Baltimore City Erosion and Sediment Control Inspector inspect and approve the work, completed at the stages of construction specified below, to ensure accordance with the approved erosion and sediment control plan, the grading or building permit, and this Ordinance:
   1. Upon completion of installation of perimeter erosion and sediment controls, prior to proceeding with any other earth disturbance or grading. Other building or grading inspection approvals may not be authorized until initial approval by the inspection agency is made; and
   2. Upon final stabilization before removal of sediment controls.
9. Baltimore City Sediment Control Section must be notified in writing of where any excess material will be disposed or where any borrowed material will come from.

City of Baltimore
Erosion and Sediment Control
309 Municipal Office Building
Baltimore, MD 21202

SITE ANALYSIS:

1. AREA OF SITE : 4.6 AC.±
2. DISTURBED AREA : 4.23 AC.±
3. AREA TO BE REVEGETATED : 2.3 AC.±
4. TOTAL CUT : 5215 C.Y. - 8" (TO BE STOCKPILED) = 3477 C.Y.±
5. TOTAL FILL : 1205 C.Y. X 2 (COM.±) = 1446 C.Y.±
6. DIFFERENCE : 2030 C.Y.± TO BE SPREAD OVER SITE

SITE BALANCES

SEDIMENT CONTROL LEGEND

EXISTING GRADE = ----(250)----

FINISHED GRADE (OR PROPOSED GRADE) = ——260——

LIMITS OF DISTURBANCE = — — —

STABILIZED CONSTRUCTION ENTRANCE = S.C.E.

SILT FENCE (WHERE APPLICABLE) = ——S——S——

INLET PROTECTION

SUMP PITS

D.A. DRAINAGE AREA

SEDIMENT TRAP

STONE CHECK DAM

STOCK PILE AREA

CONTRACTOR'S STAGING AREA

STABILIZATION SCHEDULE			
AREA	SQ FT.	TYPE OF STABILIZATION	CONSTR. SEQ. OR SED CONTR. NOTES
(A)	25,236	BUILDINGS *	SEE SEQ. OF CONSTR., NOTE NO 7
(B)	58,785	PAVING, WALKS *	SEE SEQ. OF CONSTR., NOTES 6,7,&8
(C)	100,158	REVEGETATION *	SEE SEQ OF CONSTR., NOTES 3,4,7,9&10

* ACTIVE
INACTIVE = 8,384 SQ. FT.

SEQUENCE OF CONSTRUCTION

1.	OBTAIN GRADING PERMIT	2 WEEKS
2.	CONTRACTOR MUST SUBMIT WRITTEN NOTIFICATION 72 HOURS PRIOR TO ANY CONSTRUCTION ACTIVITY STARTING: A. WHEN CONTRACTOR INTENDS TO START WORK ON CONSTRUCTION B. SOURCE OF BORROW MATERIAL C. DISPOSAL SITE AREA D. TENTATIVE CLOSING DATE	
3.	CLEAN AND GRUB FOR SEDIMENT CONTROL MEASURES	3 DAYS
4.	INSTALL SEDIMENT CONTROL MEASURES A. ALL SEDIMENT CONTROL MEASURES AND CRITICAL SLOPES TO BE STABILIZED WITHIN SEVEN CALENDAR DAYS WITH TEMPORARY SEEDING	1 WEEK
5.	CLEAR AND GRUB REMAINDER OF SITE	1 WEEK
6.	ROUGH GRADE SITE A. STABILIZE ALL EXPOSED AREAS WITHIN SEVEN CALENDAR DAYS WITH TEMPORARY SEEDING	2 WEEKS
7.	INSTALL UTILITIES	3 WEEKS
8.	CONSTRUCT BUILDINGS A. STABILIZE ALL EXPOSED AREAS WITHIN FOURTEEN CALENDAR DAYS WITH TEMPORARY SEEDING	9 MONTHS
9.	INSTALL SUBBASE PAVING	2 WEEKS
10.	INSTALL CURB AND GUTTER, SIDEWALKS	2 WEEKS
11.	FINE GRADE AND STABILIZE AS REQUIRED A. STABILIZE WITH PERMANENT SEEDING	1 WEEK
12.	INSTALL SURFACE COURSE PAVEMENT	1 WEEK
13.	INSPECT SITE	1 WEEK
14.	REMOVE SEDIMENT CONTROL MEASURES AFTER PERMISSION FROM BALTIMORE CITY	1 WEEK

OWNERS/DEVELOPERS CERTIFICATION

"I/we hereby certify that any clearing, grading, construction and/or development will be done pursuant to this plan, and that any responsible personnel involved in the construction project will have a certificate of attendance at a Department of Natural Resources approved training program for the control of sediment and erosion before beginning the project:

Robert S. Offit 9/4/86
Owner/Developer (Name and Title) Date
MR. ROBERT S. OFFIT, GENERAL PARTNER
DARTMOUTH GLEN LIMITED PARTNERSHIP
200 EAST LEXINGTON STREET
BALTIMORE, MARYLAND 21202

Engineer's Certificate

I certify that this plan for Erosion and Sediment Control represents a practical, workable plan based on personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Baltimore City Erosion and Sediment Control Section.

[signature]
Signature Date

STATE OF MARYLAND JOSEPH ... PROFESSIONAL ENGINEER

STV / LYON ASSOCIATES
Engineers Surveyors Planners
21 Governor's Court Baltimore, Maryland 21207
Telephone : 301-944-9112

REVISIONS		
NO.	DATE	DESCRIPTION

PLAN PREPARATION

DRAWN BY E.A.S.	DATE 8-5-86
DESIGNED BY E.A.S.	SCALE NONE
CHECKED BY T.C.	

SEDIMENT CONTROL DETAILS
DARTMOUTH GLEN
NO. 1001-1003 DARTMOUTH ROAD @ E.NORTHERN PARKWAY
BALTIMORE CITY, MARYLAND
LOT 28,BLOCK 5138-A,SECTION 56,WARD 27

DRAWING NO. 7771-59-001
SHEET NO. 11 of 11

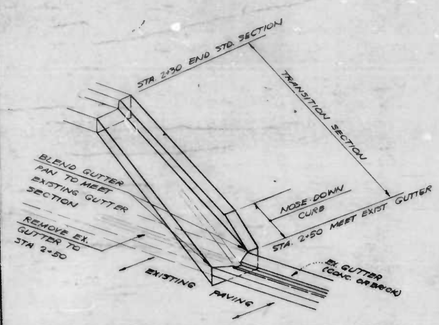
Misc #3-1986

RATIO - 24

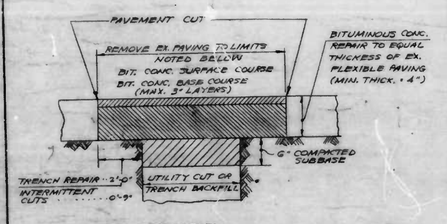
REVISIONS			
NO.	DESCRIPTION	DATE	BY

SEDIMENT CONTROL CONSTRUCTION SEQUENCE:

1. OBTAIN GRADING PERMIT
2. CONTRACTOR MUST SUBMIT WRITTEN NOTIFICATION TO THE BALTIMORE CITY SEDIMENT CONTROL SECTION 72 HOURS PRIOR TO ANY CONSTRUCTION ACTIVITY STARTING:
   a. WHEN CONTRACTOR INTENDS TO BEGIN CONSTRUCTION
   b. SOURCE OF BORROW MATERIAL
   c. DISPOSAL SITE AREA
   d. CONTRACTOR'S CLOSING DATE
3. REMOVE EXISTING PAVING AND EXCAVATE FOR WIDENING AS SHOWN IN TYPICAL SECTION. ALL MATERIAL SHALL BE IMMEDIATELY REMOVED FROM THE SITE NO STOCKPILING IS ALLOWED.
4. STABILIZE ALL DISTURBED AREAS WITH A MINIMUM OF 6 INCHES CR-6 AT THE END OF EACH DAY.
5. PLACE CR-6 BASE COURSE TO PROPER ELEVATION, INSTALL CURB AND GUTTER AND PROPOSED PAVING. INSTALL SIDEWALK AND NOTIFY SEDIMENT CONTROL SECTION FOR FINAL INSPECTION.



DETAIL-CURB TRANSITION STA. 2+30 TO 2+50
NO SCALE



REMOVE EXISTING PAVEMENT:
EXISTING PAVEMENT SHALL BE REMOVED TO THE DIMENSIONS SHOWN ON THE CONSTRUCTION DETAIL FOR BOTH LONGITUDINAL AND TRANSVERSE PAVEMENT CUTS.

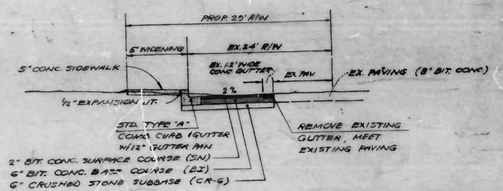
PAVEMENT REPLACEMENT:
THE TOP 6 INCHES OF THE TRENCH SHALL BE FILLED WITH COMPACTED SUBBASE. MATERIAL AND ADDITIONAL THICKNESS, IF REQUIRED, SHALL BE IN ACCORDANCE WITH THE PLANS OR AS DIRECTED BY THE ENGINEER. SEE ARTICLE 32.03 IN THE SPECIFICATIONS.
COMPACT SUBBASE OF ENTIRE OPENING BEFORE PLACING BITUMINOUS CONCRETE.
THE FLEXIBLE PAVING SHALL BE REPLACED FLUSH WITH THE FINISHED PAVEMENT SURFACE USING A BASE COURSE WITH MAXIMUM 3 IN. COMPACTED LAYERS AND A MINIMUM OF 1 IN. COMPACTED SURFACE COURSE. SEE ART. 33.07 IN SPECIFICATIONS.
ALL EXPOSED EDGES OF EXISTING FLEXIBLE PAVING, THE SURFACE OF THE SUBBASE, & EACH LAYER OF BITUMINOUS CONCRETE BASE SHALL BE PRIMED WITH A SUITABLE PRIME COAT BEFORE THE NEXT LAYER OF BIT. CONC. IS PLACED

GENERAL NOTES:
ALL WORK TO BE PERFORMED IN ACCORDANCE WITH THE LATEST D.P.W. SPECIFICATIONS.
PROCEDURE FOR MAINTENANCE OF TRAFFIC SHALL BE APPROVED BY THE DEPT. OF TRANSIT AND TRAFFIC BEFORE ANY EXISTING PAVEMENT IS REMOVED.

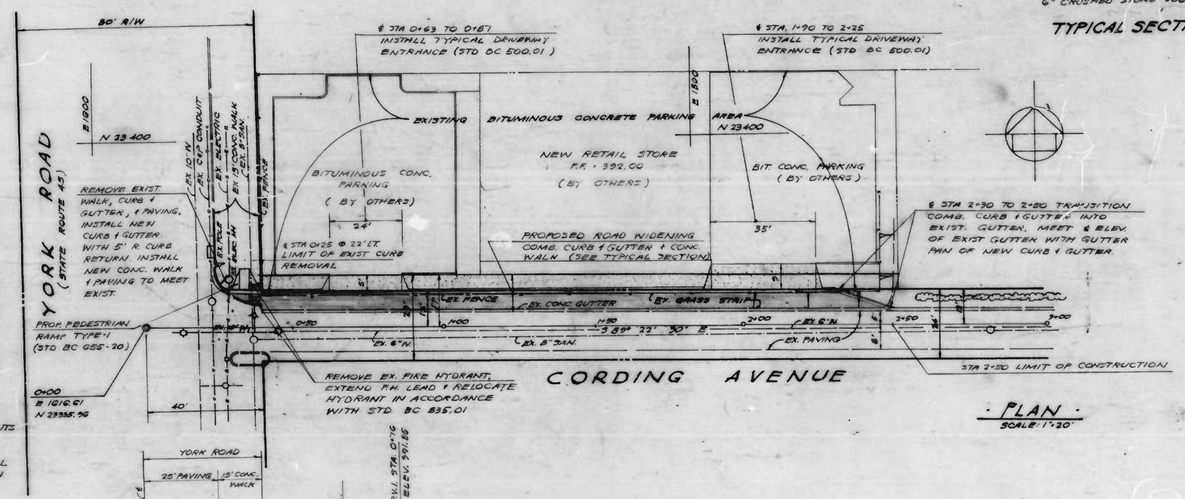
DETAIL: STREET CUT & REPAIR
NO SCALE

GENERAL NOTES:

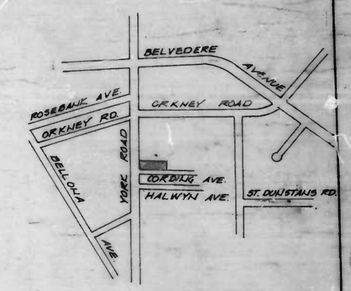
1. ALL WORK SHOWN ON THIS PLAN SHALL BE IN ACCORDANCE WITH THE BALTIMORE CITY SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS; STANDARD DETAILS; AND THE BALTIMORE CITY SEDIMENT CONTROL MANUAL.
2. THE CONTRACTOR MUST USE EXTREME CAUTION WHEN WORKING IN THE VICINITY OF THE EXISTING CONDUIT SYSTEM. CALL MISS UTILITY 1-800-257-7777 THREE DAYS PRIOR TO STARTING WORK.



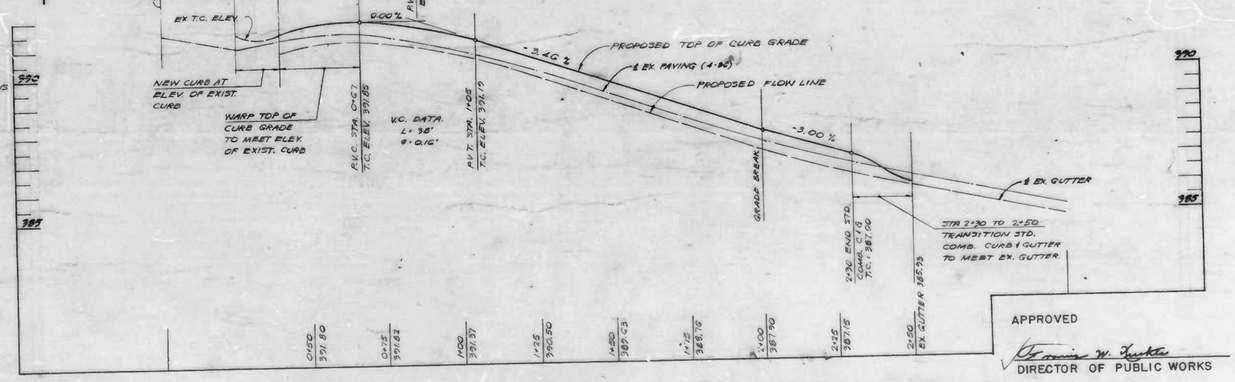
TYPICAL SECTION - CORDING AVENUE WIDENING
SCALE: 1"=5'



PLAN
SCALE: 1"=20'



VICINITY MAP
SCALE: 1"=500'



PROFILE
SCALE HOR. 1"=20' VERT. 1"=2'

BUREAU OF HIGHWAYS
APPROVED _____ CHIEF, HIGHWAY ENGINEERING DIVISION
APPROVED _____ CHIEF, ENVIRONMENTAL SERVICES DIVISION

OFFICE OF TRANSPORTATION
APPROVED _____ 9/3/86 DIRECTOR OF OFFICE OF TRANSPORTATION

APPROVED
_____
DIRECTOR OF PUBLIC WORKS

APPROVED
_____
HEAD, BUREAU OF HIGHWAYS

CITY OF BALTIMORE
DEPARTMENT OF PUBLIC WORKS
BUREAU OF ENGINEERING

ROAD WIDENING
TO BE PERFORMED BY PRIVATE DEVELOPERS

CORDING AVENUE
FROM YORK ROAD 250' EAST

SCALE: AS SHOWN
DATE: JULY 22, 1986
SHEET 1 OF 1

B. OF H. REVIEW	R/W RELEASE	GRADE EST'S	HIGHWAY DESIGN	STRUCTURAL	DRAINAGE	LIGHTING	CONDUIT	SEDIMENT AND EROSION CONTROL	OFFICE OF TRANSPORTATION	WASTE WATER ENGINEERING	WATER ENGINEERING
BY	JGH	R.T. Hoge	CC Sutton	—	FCW	DDK	DDK	HS	V.S.B.	E.E.N.	RJK
DATE	9-4-86	9-2-86	9/2/86	—	9/2/86	9/3/86	9/3/86	9-3-86	9-3-86	9/3/86	9/4/86

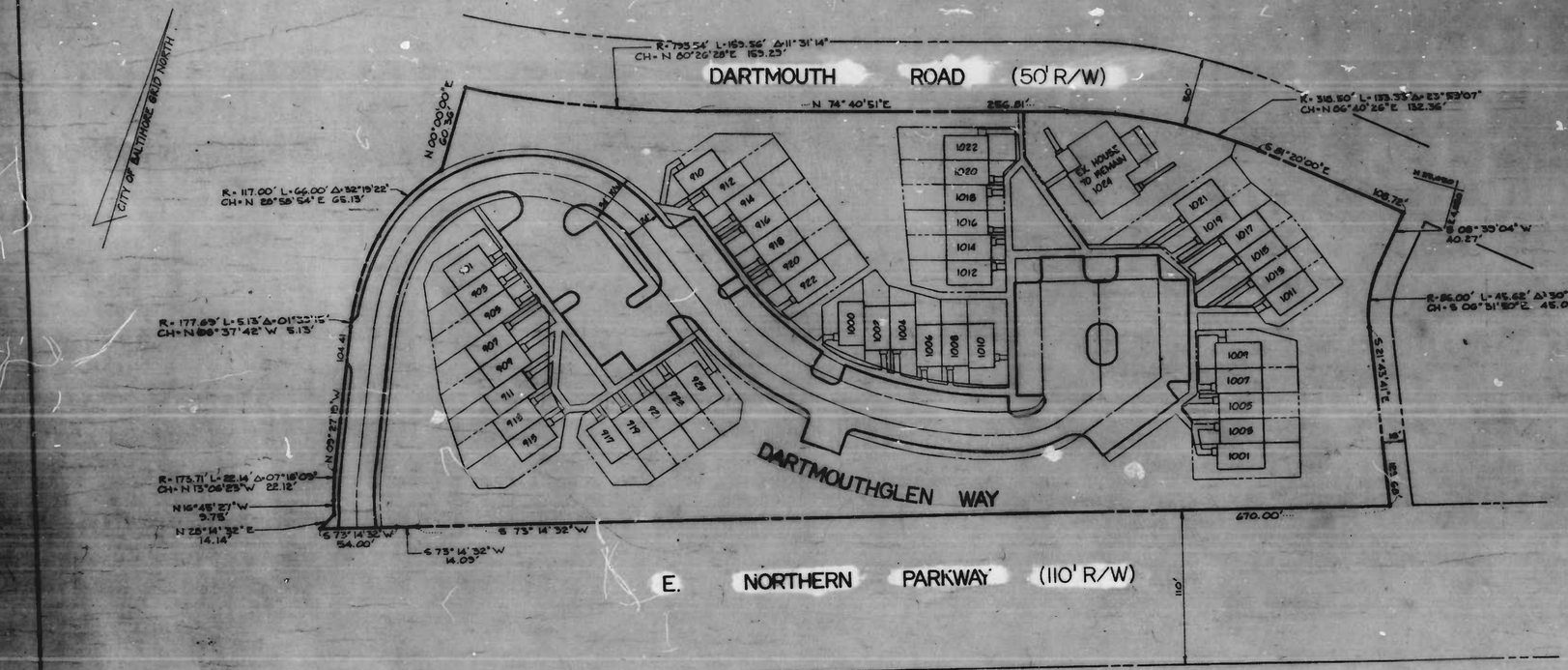
APR ASSOCIATES, INC.
ENGINEERS & SURVEYORS
7427 HARFORD RD.
BALTIMORE, MD. 21234
444-4512

STATE OF MARYLAND REGISTERED PROFESSIONAL ENGINEER 8-26-86

Misc. # 2, 1986

#8565

RATIO - 24



INDEX OF DRAWINGS

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2	SANITARY SEWER PLAN
3	SANITARY SEWER PROFILES
4 & 5	STORM WATER PLAN & PROFILES
6	WATER MAIN PLAN
7	ROAD CONSTRUCTION PLAN & PROFILE
8	ROAD CONSTRUCTION LINE & GRADE
9	STREET LIGHTING SYSTEM PLAN
10	EROSION & SEDIMENT PLAN
11	EROSION & SEDIMENT DETAILS

*
SHEET 2 FILED IN WASTE WATER DIV. W.W.D. SCHEDULE
SHEET 3 FILED IN WASTE WATER DIV. W.W.D. SCHEDULE
SHEET 4 FILED IN RIGHT WAY DIV. R.W.D. SCHEDULE
SHEET 5 FILED IN RIGHT WAY DIV. R.W.D. SCHEDULE
SHEET 6 FILED IN WATER DIVISION W.1028 SCHEDULE

CITY OF BALTIMORE

DEPARTMENT OF PUBLIC WORKS

DARTMOUTH GLEN

ESTABLISHED GRADE & CONSTRUCTION OF

DARTMOUTHGLEN WAY

STATION 0+00 TO STATION 9+23

CITY OF BALTIMORE, BUREAU OF HIGHWAYS

BUREAU OF HIGHWAYS
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APPROVED _____ CHIEF, ENVIRONMENTAL SERVICES DIVISION

OFFICE OF TRANSPORTATION
APPROVED _____ DIRECTOR OF OFFICE OF TRANSPORTATION

APPROVED
_____ DIRECTOR OF PUBLIC WORKS

APPROVED
_____ HEAD, BUREAU OF HIGHWAYS

SHEET NO. 1 OF

ENGINEER:
STV/LYON ASSOCIATES
21 GOVERNOR'S COURT
BALTIMORE, MD. 21207

	B OF H REVIEW	R/W RELEASE	GRADE EST'D	HIGHWAY DIVISION	STRUCTURAL	DRAINAGE	LIGHTING	CONDUIT	SEDIMENTATION AND EROSION CONTROL	OFFICE OF TRANSPORTATION	WASTE WATER ENGINEERING	WATER ENGINEERING
BY	[illegible]	[illegible]	[illegible]	[illegible]	—	[illegible]	[illegible]	[illegible]	B.G.	RAB	[illegible]	DJC
DATE	10/20/86	10-15-86	10-15-86	10-15-86	—	10-28-86	10/20/86	10/20/86	10/27/86	10/24/86	10/20/86	10/21/86

RATIO - 24

FILE REF.

CITY OF BALTIMORE

DEPARTMENT OF PUBLIC WORKS

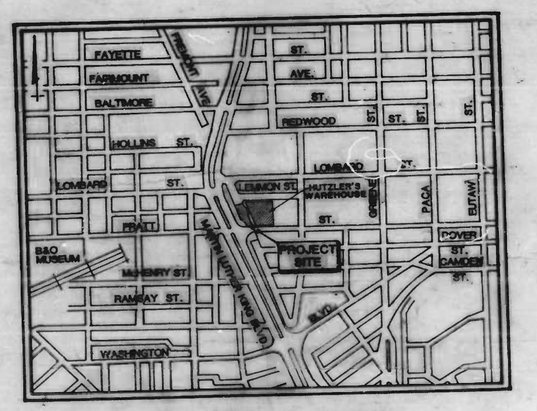
BUREAU OF HIGHWAYS

GRADING, CURBING, PAVING, DRAINAGE, AND UTILITY ADJUSTMENTS

EXTENSION OF FREMONT AVENUE

LEMMON STREET TO PRATT STREET

INDEX OF SHEETS	
NO.	DESCRIPTION
1	TITLE SHEET
2	PLAN
3	ROAD PROFILES AND DETAILS
4	SOIL EROSION/SEDIMENT CONTROL PLAN
5	SOIL EROSION/SEDIMENT CONTROL PLAN
6	CROSS SECTIONS
7	CROSS SECTIONS



LOCATION PLAN

500 0 500 1000

DEPARTMENT OF PUBLIC WORKS

BUREAU OF HIGHWAYS

APPROVED Raymond T. Ballard
CHIEF, HIGHWAY ENGINEERING DIVISION

APPROVED Frederick Moore
CHIEF, ENVIRONMENTAL SERVICES DIVISION

OFFICE OF TRANSPORTATION

APPROVED
DIRECTOR OF OFFICE OF TRANSPORTATION

APPROVED

Francis X. Kendall
DIRECTOR OF PUBLIC WORKS

APPROVED

Oscar A. Pasdhakis
HEAD, BUREAU OF HIGHWAYS

PREPARED BY:
THE WILSON T. BALLARD COMPANY
CONSULTING ENGINEERS
OWINGS MILLS, MARYLAND
TEL. 363-0150

Robert H. Bond, P.E.

B. OF H. REVIEW	R/W RELEASE	GRADE EST'S	HIGHWAY DESIGN	STRUCTURAL	DRAINAGE	LIGHTING	CONDUIT	SEDIMENTATION AND EROSION CONTROL	OFFICE OF TRANSPORTATION	WASTE WATER ENGINEERING	WATER ENGINEERING
BY				—		JCB	DPL	B.G	RHB	RJK	RJK
DATE	10/20/86	8/12/86	8/12/86	—	11-28-86	10-10-86	10/14/86	10/27/86	10/24/86	10/14/86	10/23/86

FILE REF. Misc # 1 - 1986