

CITY OF BALTIMORE
 DEPARTMENT OF PUBLIC WORKS
 BUREAU OF HIGHWAYS
NEIGHBORHOOD PROGRESS ADMINISTRATION / DHCD
 COMMERCIAL REVITALIZATION DIVISION

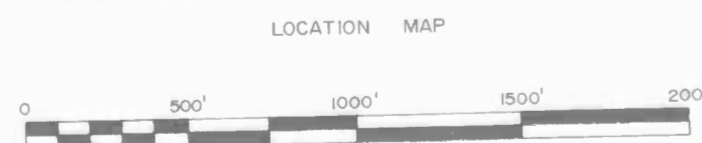


GRADING, CURBING, PAVING AND LANDSCAPING

BROOKLYN BUSINESS AREA - PHASE No. 1

CITY OF BALTIMORE BUREAU OF HIGHWAYS CONTRACT NO. 3088

INDEX OF SHEETS	
SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	EXISTING CONDITIONS PLAN
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4	SIDEWALK GRADING PLAN
5	SIDEWALK PAVING AND PLANTING PLAN
6	GRADING AND PLANTING DETAILS
7	BUS SHELTER AND BENCH DETAILS
8	HANOVER STREET CURB PROFILES
9	PATAPSCO AVENUE CURB PROFILES



FIELD BOOKS		
NO.	TITLE	DESCRIPTION
F.B. 2178/1	BALTIMORE CITY SURVEY AND RECORDS DIVISION JUNE 22, 1983	PLAT SHOWING LOCATION, ELEVATIONS AND UTILITIES OF THE INTERSECTION OF PATAPSCO AVENUE AND HANOVER STREET AND ADJACENT AREAS.
F.B. 2178/1	BALTIMORE CITY SURVEY AND RECORDS DIVISION JUNE 22, 1983	PLAT SHOWING LOCATION, ELEVATIONS AND UTILITIES OF THE INTERSECTION OF PATAPSCO AVENUE AND HANOVER STREET AND ADJACENT AREAS.

DEPARTMENT OF PUBLIC WORKS

BUREAU OF HIGHWAYS

APPROVED: *[Signature]*
 CHIEF, HIGHWAY ENGINEERING DIVISION

APPROVED: *[Signature]*
 CHIEF, ENVIRONMENTAL SERVICES DIVISION

OFFICE OF TRANSPORTATION

APPROVED: *[Signature]*
 DIRECTOR, OFFICE OF TRANSPORTATION

APPROVED:

[Signature]
 DIRECTOR OF PUBLIC WORKS

APPROVED:

[Signature]
 HEAD, BUREAU OF HIGHWAYS

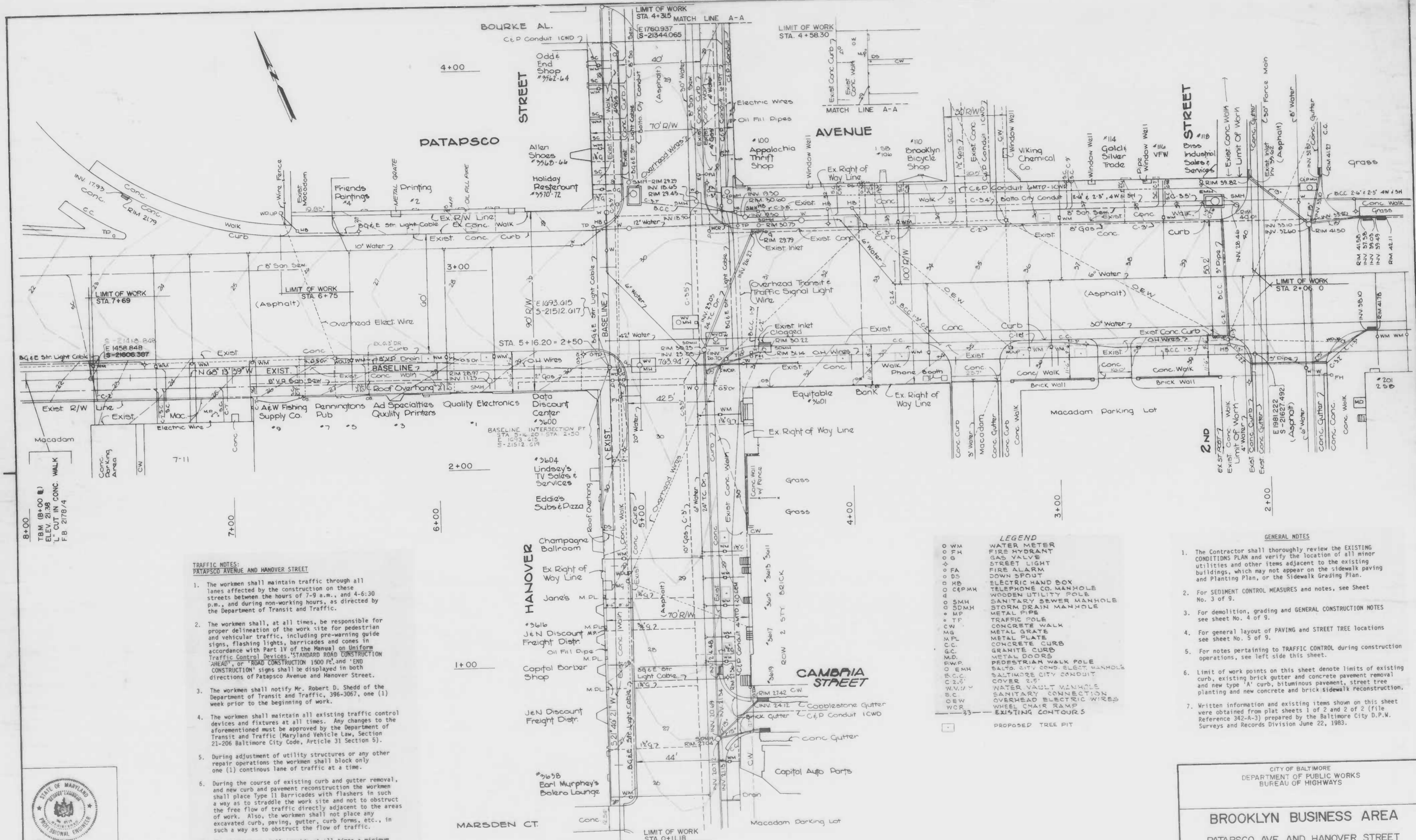


SEAL
 JOHNSON, MIRMAN B THOMPSON
 ENGINEER *[Signature]*
 DATE 10/2/85 LIC. NO. 2519

Johnson, Mirman and Thompson, P.A.
 PLANNERS, ENGINEERS, LANDSCAPE ARCHITECTS, SURVEYORS
 800 GREENGLADES CT. • SUITE 200 • BALTIMORE, MD • 21202
 (410) 528-1000

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 <i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>					<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
DATE 10/4/85	10/4/85	10/3/85			10-4-85	10-15-85	10/4/85	10-18-85	10/14/85		10/9/85

Cont. 3088



TRAFFIC NOTES:
PATAPSCO AVENUE AND HANOVER STREET

- The workmen shall maintain traffic through all lanes affected by the construction on these streets between the hours of 7-9 a.m., and 4-6:30 p.m., and during non-working hours, as directed by the Department of Transit and Traffic.
- The workmen shall, at all times, be responsible for proper delineation of the work site for pedestrian and vehicular traffic, including pre-warning guide signs, flashing lights, barricades and cones in accordance with Part IV of the Manual on Uniform Traffic Control Devices, STANDARD ROAD CONSTRUCTION "AHEAD" or "ROAD CONSTRUCTION 1500 FT." and "END CONSTRUCTION" signs shall be displayed in both directions of Patapsco Avenue and Hanover Street.
- The workmen shall notify Mr. Robert D. Shedd of the Department of Transit and Traffic, 396-3067, one (1) week prior to the beginning of work.
- The workmen shall maintain all existing traffic control devices and fixtures at all times. Any changes to the aforementioned must be approved by the Department of Transit and Traffic (Maryland Vehicle Law, Section 21-206 Baltimore City Code, Article 31 Section 5).
- During adjustment of utility structures or any other repair operations the workmen shall block only one (1) continuous lane of traffic at a time.
- During the course of existing curb and gutter removal, and new curb and pavement reconstruction the workmen shall place Type II Barricades with flashers in such a way as to straddle the work site and not to obstruct the free flow of traffic directly adjacent to the areas of work. Also, the workmen shall not place any excavated curb, paving, gutter, curb forms, etc., in such a way as to obstruct the flow of traffic.
- The Contractor shall provide at all times a minimum six (6') foot pedestrian footway on all streets affected by new curb and sidewalk reconstruction, and the Contractor shall also maintain at all time, a minimum six (6') foot pedestrian footway to all business, residences and other necessary points of access and egress within the affected areas. All temporary footway/walkway areas shall have a smooth dust free surface of bituminous concrete, concrete or wood and shall be kept clear of all obstructions, mud, stone etc. (See Specs)

LEGEND

000	W	WATER METER
001	FM	FIRE HYDRANT
002	FA	GAS VALVE
003	SL	STREET LIGHT
004	DA	FIRE ALARM
005	DS	DOWN SPOUT
006	HB	ELECTRIC HAND BOX
007	CPMH	TELEPHONE CO. MANHOLE
008	WUP	WOODEN UTILITY POLE
009	SMH	SANITARY SEWER MANHOLE
010	SDMH	STORM DRAIN MANHOLE
011	MP	METAL PIPE
012	TP	TRAFFIC POLE
013	CW	CONCRETE WALK
014	MG	METAL GRATE
015	CP	CONCRETE CURB
016	GC	GRANITE CURB
017	MD	METAL DOORS
018	EMH	PEDESTRIAN WALK POLE
019	SC	BALTO. CITY COND. ELECT. MANHOLE
020	CS	C&P CONDUIT
021	WC	COVER 25"
022	WV	WATER VAULT
023	WC	WATER VAULT W/WHOLE
024	SC	SANITARY CONNECTION
025	OE	OVERHEAD ELECTRIC WIRES
026	WC	WHEEL CHAIR RAMP
027	WCR	EXISTING CONTOUR 5'

PROPOSED TREE PIT

- GENERAL NOTES**
- The Contractor shall thoroughly review the EXISTING CONDITIONS PLAN and verify the location of all minor utilities and other items adjacent to the existing buildings, which may not appear on the existing Sidewalk Grading Plan, or the Sidewalk Planting Plan.
 - For SEDIMENT CONTROL MEASURES and notes, see Sheet No. 3 of 9.
 - For demolition, grading and GENERAL CONSTRUCTION NOTES see sheet No. 4 of 9.
 - For general layout of PAVING and STREET TREE locations see sheet No. 5 of 9.
 - For notes pertaining to TRAFFIC CONTROL during construction operations, see left side this sheet.
 - Limit of work points on this sheet denote limits of existing curb, existing brick gutter and concrete pavement removal and new type "A" curb, bituminous pavement, street tree planting and new concrete and brick sidewalk reconstruction.
 - Written information and existing items shown on this sheet were obtained from plat sheets 1 of 2 and 2 of 2 (file Reference 342-A-3) prepared by the Baltimore City D.P.W. Surveys and Records Division June 22, 1989.

JOHNSON, MURRAY & THOMPSON
ENGINEERS
DATE 1/18/90 LIC. NO. 9219
DRAWN BY M.B.
EXAMINED BY K.E.M.

Coordinate Point @ Sta 0+11.18
On Baseline Survey West Side
Hanover Street
E 1,605,031
S-21,734,401

CITY OF BALTIMORE
DEPARTMENT OF PUBLIC WORKS
BUREAU OF HIGHWAYS

BROOKLYN BUSINESS AREA
PATAPSCO AVE. AND HANOVER STREET
EXISTING CONDITIONS PLAN

SCALE 1" = 20' DATE _____
BALTIMORE CITY CONTRACT NO. _____ SHEET 2 OF 9

EROSION AND SEDIMENT CONTROL NOTES

- The Contractor will comply with all requirements of Sediment and Erosion Control as set forth in the Baltimore City Sediment Control manual.
- 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.
- All PVC drain lines and clean outs to be installed to proper elevations prior to beginning any other curb or pavement construction.
- No pumping of any sort from sidewalk beds or other excavated areas will be allowed to discharge directly into City systems unless it is filtered by way of Sediment Traps or other type of filter.
- All excavated material not suitable for reuse during construction of new curbs, sidewalks or bituminous pavement replacement, shall be removed from the project construction site to the predetermined and approved disposal site.
- Continuous inspection and maintenance of all Sediment Control devices will be required.
- The Contractor shall notify in writing the Baltimore City Sediment Control Representative at least three working days prior to starting any work.
- 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.
- Total disturbed area = 7,563 Sq. Ft.

SEDIMENT CONTROL SEQUENCE OF CONSTRUCTION

- The Contractor shall notify the Baltimore City Sediment Control Representative in writing at least 72 (seventy-two) hours before starting work. Telephone (301) 396-3175
- Contractor shall submit the following information:
 - Proposed Starting Date
 - Source Of Borrow Material
 - Location of Disposal Site
 - Tentative Closing Date
- Clear all paved areas for the placement of Sediment Control measures.
- Construct sediment control measures (i.e. Curb inlet protection SCS Std. 1P0-1) as well as other measures as directed by the Baltimore City Erosion and Sediment Control Section.
- Clear remaining existing paved areas of site.
- Contractor's Staging Area (for Storage of Building materials only) is located at 3641 Potee Street east side approximately 184 feet south of the intersection of Patapsco Ave. and Potee Street. This property is presently paved with bituminous concrete. See Location Map this sheet.
- Demolish, remove material, excavate and properly prepare subgrades where required for new bituminous concrete pavement sections, new type 'A' curb, new PVC drain lines, new concrete and brick sidewalks, and new concrete entrances. (See plan sheet No.4)
- Install new concrete curbs, PVC drain lines, new concrete and brick pavement, new concrete entrances and new bituminous concrete pavement as per drawings.
- Sediment and erosion control measures shall remain in operation during the entire construction period and shall not be removed. Remove Sediment Control measures only after receiving prior written approval from the Baltimore City Erosion and Sediment Control Section.
- At the time tree pits are excavated, (for tree planting) the Contractor shall place all excavated material upon a canvas tarpaulin (or other suitable protective material approved by the Engineer) spread on the sidewalk away from the curb line. All excavated material not used for planting soil backfill shall be removed from the site. Extreme care shall be taken so as not to spill any excavated material into the gutter or onto other adjacent paved surfaces.

Owners/Developers certification

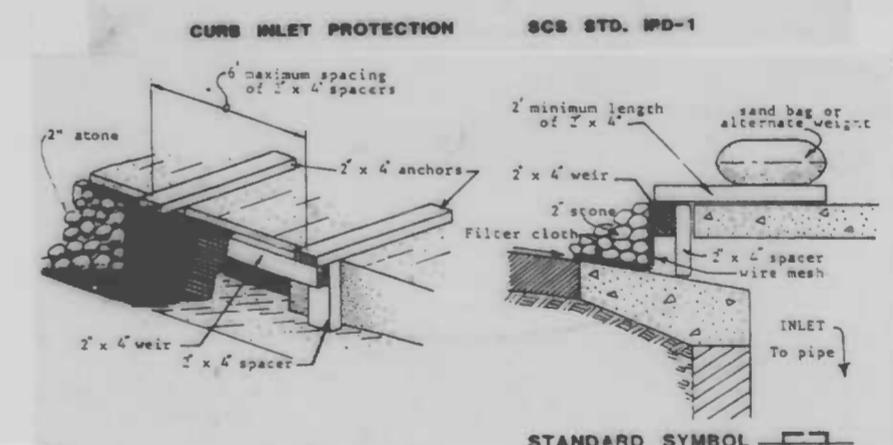
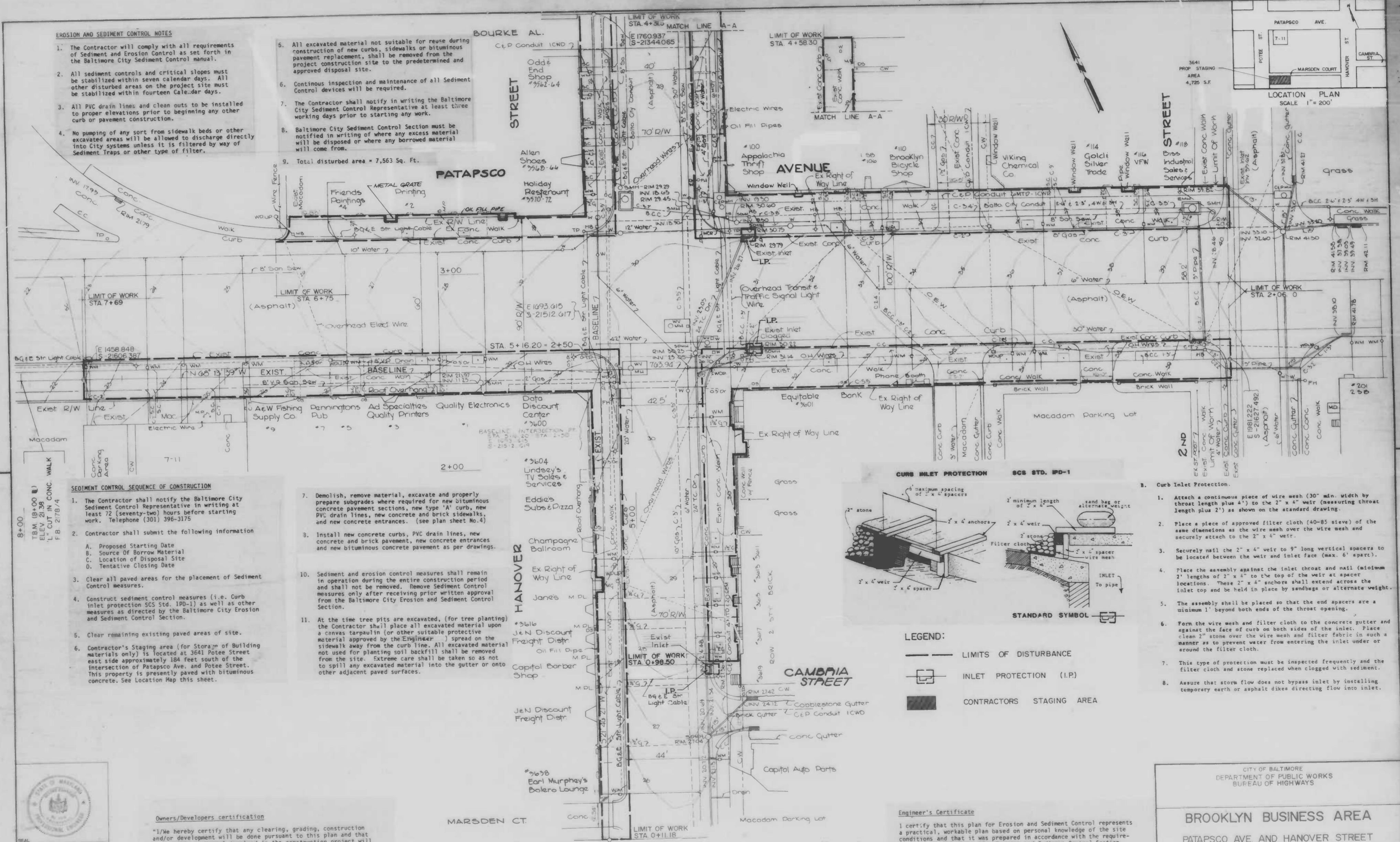
"I/We hereby certify that any clearing, grading, construction and/or development will be done pursuant to this plan and the responsible personnel involved in the construction project will have a certification of attendance at Department of Natural Resources approved training program for the control of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

Signature Owner/Developer _____ Date _____ Print Name _____ Date _____
 Address _____ Phone _____



ENGINEER: *Henry S. Linder*
 DATE: 10/1/81
 DRAWN BY: M.D. & M.W.
 EXAMINED BY: K.E.M.C.

Coordinate Point @ Sta 0+11.18
 On Baseline Survey West Side
 Hanover Street
 E 1,605,031
 S 21,734,401



- LEGEND:
- LIMITS OF DISTURBANCE
 - [Symbol] INLET PROTECTION (I.P.)
 - [Symbol] CONTRACTORS STAGING AREA

- Curb Inlet Protection.**
- 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.
 - 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.
 - Securely nail the 2" x 4" weir to 9" long vertical spacers to be located between the weir and inlet face (max. 6' apart).
 - 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.
 - The assembly shall be placed so that the end spacers are a minimum 1' beyond both ends of the throat opening.
 - 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.
 - This type of protection must be inspected frequently and the filter cloth and stone replaced when clogged with sediment.
 - Assure that storm flow does not bypass inlet by installing temporary earth or asphalt dikes directing flow into inlet.

CITY OF BALTIMORE
 DEPARTMENT OF PUBLIC WORKS
 BUREAU OF HIGHWAYS

BROOKLYN BUSINESS AREA
 PATAPSCO AVE AND HANOVER STREET
 SEDIMENT CONTROL PLAN

SCALE 1" = 20' DATE _____
 BALTIMORE CITY CONTRACT NO. _____ SHEET 3 OF 9

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 _____ Date _____ Please Print Name _____
 Address _____ Phone _____

CONSTRUCT NEW CURB RADII

C-1 Δ=90°00'00" R=15.00' T=18.00' L=23.56'

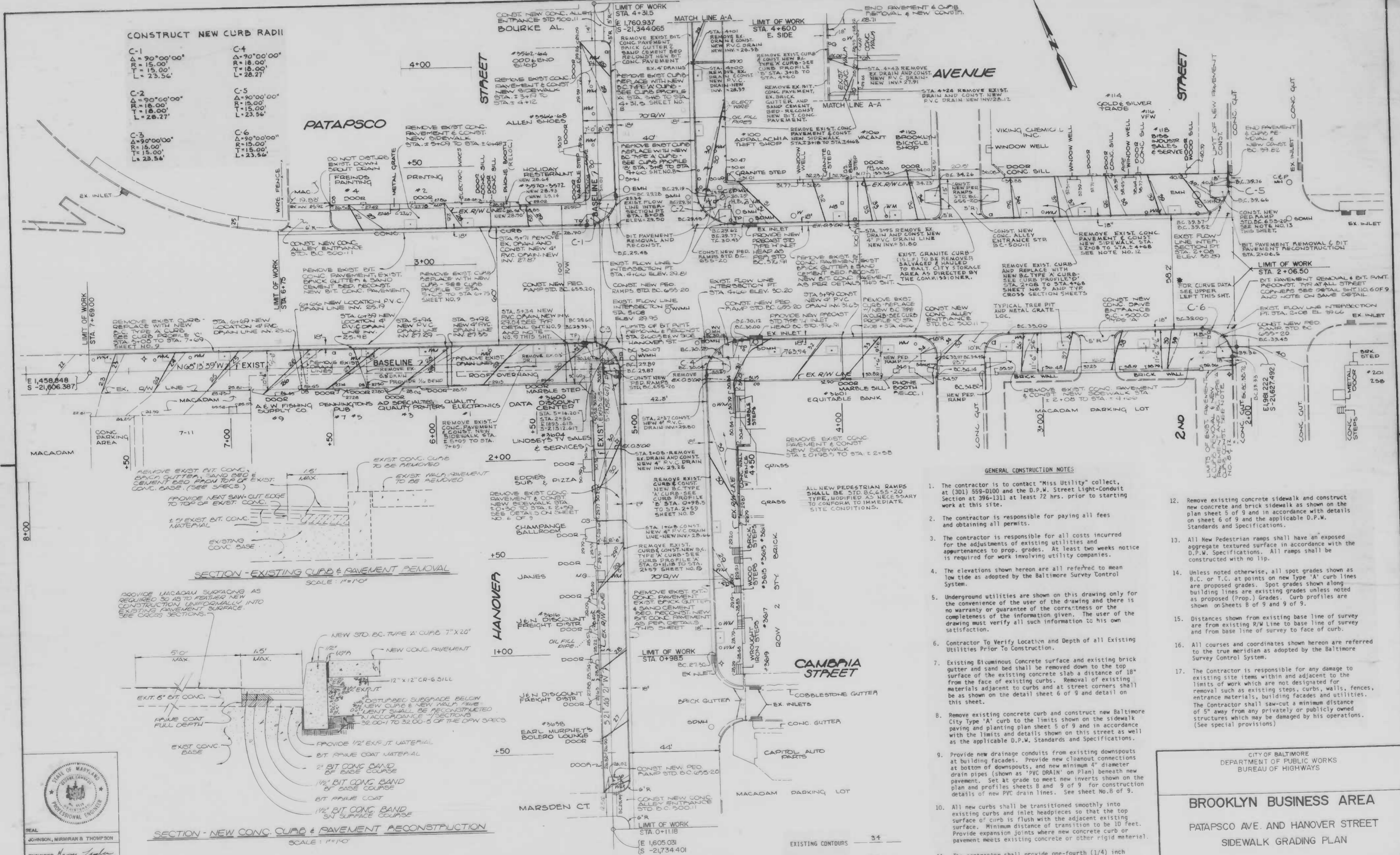
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C-3 Δ=90°00'00" R=15.00' T=18.00' L=23.56'

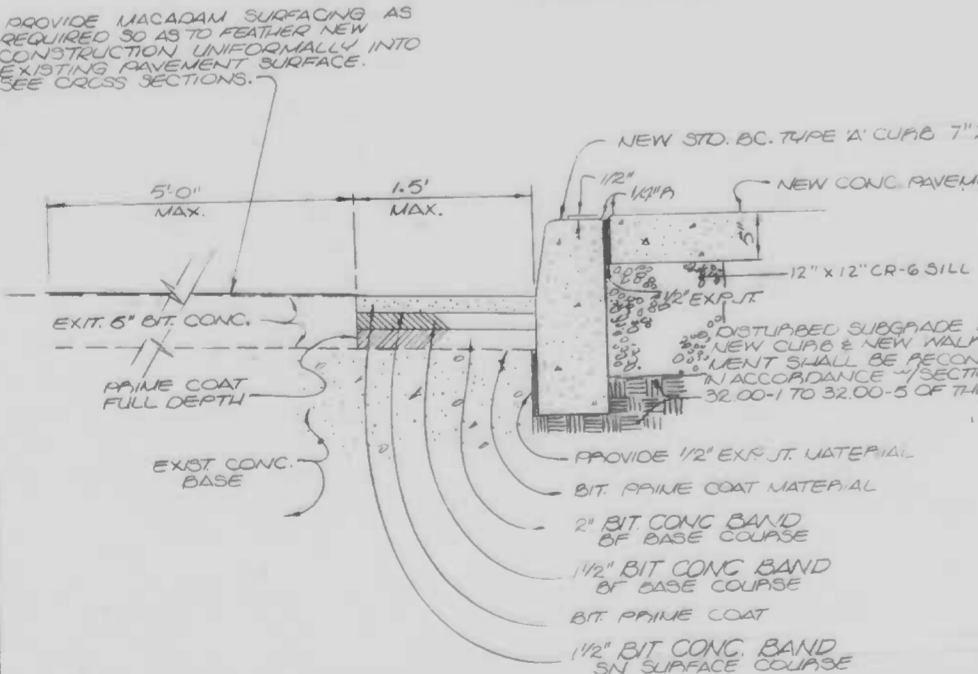
C-4 Δ=90°00'00" R=15.00' T=18.00' L=23.56'

C-5 Δ=90°00'00" R=15.00' T=18.00' L=23.56'

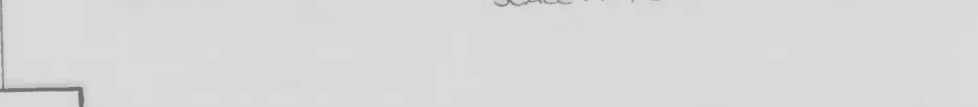
C-6 Δ=90°00'00" R=15.00' T=18.00' L=23.56'



SECTION - EXISTING CURB & PAVEMENT REMOVAL SCALE: 1/4"=1'-0"



SECTION - NEW CONC. CURB & PAVEMENT RECONSTRUCTION SCALE: 1/4"=1'-0"



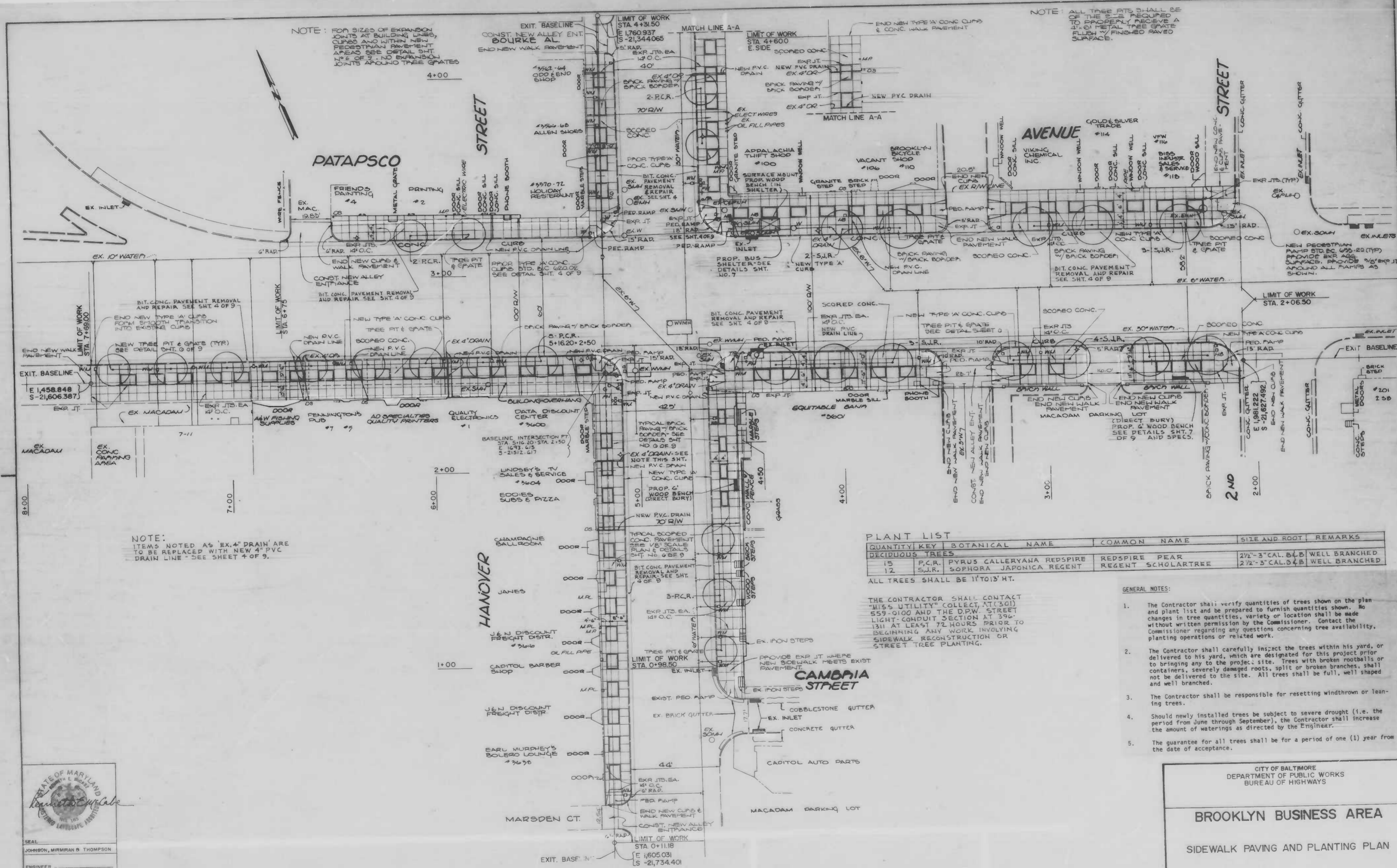
GENERAL CONSTRUCTION NOTES

- 1. The contractor is to contact "Miss Utility" collect...
2. The contractor is responsible for paying all fees...
3. The contractor is responsible for all costs incurred...
4. The elevations shown hereon are all referred to mean low tide...
5. Underground utilities are shown on this drawing only...
6. Contractor to Verify Location and Depth of all Existing Utilities Prior to Construction...
7. Existing Bituminous Concrete surface and existing brick gutter and sand bed shall be removed down to the top surface of the existing concrete slab...
8. Remove existing concrete curb and construct new Baltimore City Type 'A' curb...
9. Provide new drainage conduits from existing downspouts at building facades...
10. All new curbs shall be transitioned smoothly into existing curbs and inlet headpieces...
11. The contractor shall provide one-fourth (1/4) inch expansion joint material around all utility structures...

CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS BUREAU OF HIGHWAYS
BROOKLYN BUSINESS AREA
PATAPSCO AVE. AND HANOVER STREET
SIDEWALK GRADING PLAN
SCALE: 1"=20' DATE:
BALTIMORE CITY CONTRACT NO. SHEET 4 OF 9

Professional Engineer seal for M. D. Johnson, Murrain & Thompson, dated 10/15/91, License No. 6517.

Table with 2 columns: Description, Value. Rows: EXISTING CONTOURS (34), PROPOSED CONTOURS (34).



NOTE: FOR SIZES OF EXPANSION JOINTS AT BUILDING LINES, CURBS AND WITHIN NEW PAVED WALK PAVEMENT AREAS SEE DETAIL SHT. #8 OF 9. NO EXPANSION JOINTS AROUND TREE GRATES.

NOTE: ALL TREE PITS SHALL BE OF THE SIZE REQUIRED TO PROPERLY RECEIVE A 12" Ø METAL TREE GRATE FLUSH WITH FINISHED PAVED SURFACE.

NOTE: ITEMS NOTED AS 'EX. 4" DRAIN ARE TO BE REPLACED WITH NEW 4" PVC DRAIN LINE - SEE SHEET # OF 9.

PLANT LIST

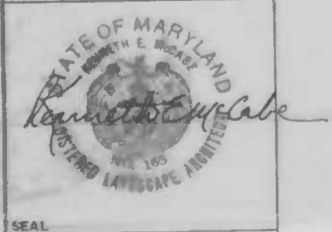
QUANTITY	KEY	BOTANICAL NAME	COMMON NAME	SIZE AND ROOT	REMARKS
DECIDUOUS TREES					
15	P.C.R.	PYRUS CALLERYANA	REDSPIRE PEAR	2 1/2" - 3" CAL. B & B	WELL BRANCHED
12	S.J.R.	SOPHORA JAPONICA	REGENT SCHOLAR TREE	2 1/2" - 3" CAL. B & B	WELL BRANCHED

ALL TREES SHALL BE 11' TO 13' HT.

THE CONTRACTOR SHALL CONTACT 'MISS. UTILITY' COLLECT AT (301) 559-0100 AND THE D.P.W. STREET LIGHT-CONDUIT SECTION AT 396-1311 AT LEAST 72 HOURS PRIOR TO BEGINNING ANY WORK INVOLVING SIDEWALK RECONSTRUCTION OR STREET TREE PLANTING.

GENERAL NOTES:

- The Contractor shall verify quantities of trees shown on the plan and plant list and be prepared to furnish quantities shown. No changes in tree quantities, variety or location shall be made without written permission by the Commissioner. Contact the Commissioner regarding any questions concerning tree availability, planting operations or related work.
- The Contractor shall carefully inspect the trees within his yard, or delivered to his yard, which are designated for this project prior to bringing any to the project site. Trees with broken rootballs or containers, severely damaged roots, split or broken branches, shall not be delivered to the site. All trees shall be full, well shaped and well branched.
- The Contractor shall be responsible for resetting windthrown or leaning trees.
- Should newly installed trees be subject to severe drought (i.e. the period from June through September), the Contractor shall increase the amount of waterings as directed by the Engineer.
- The guarantee for all trees shall be for a period of one (1) year from the date of acceptance.



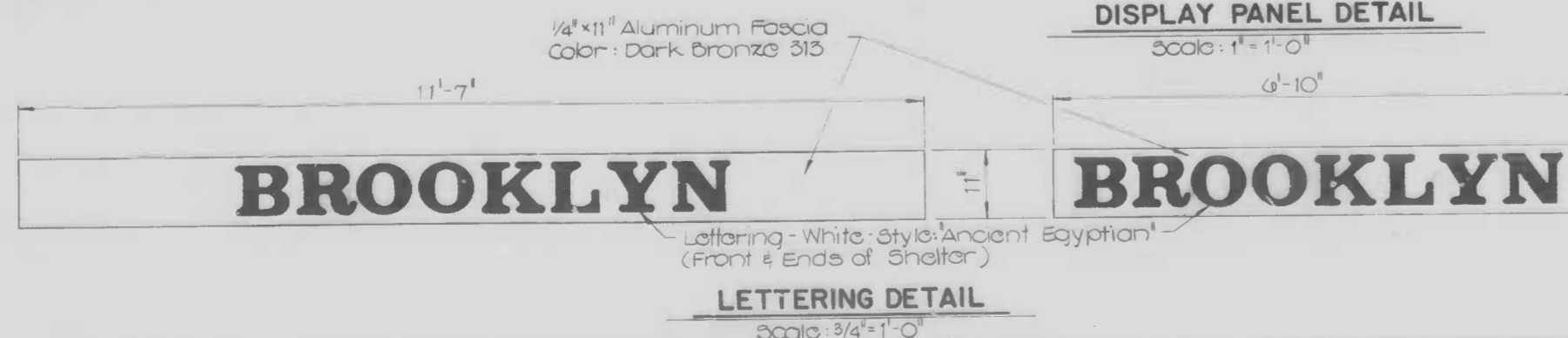
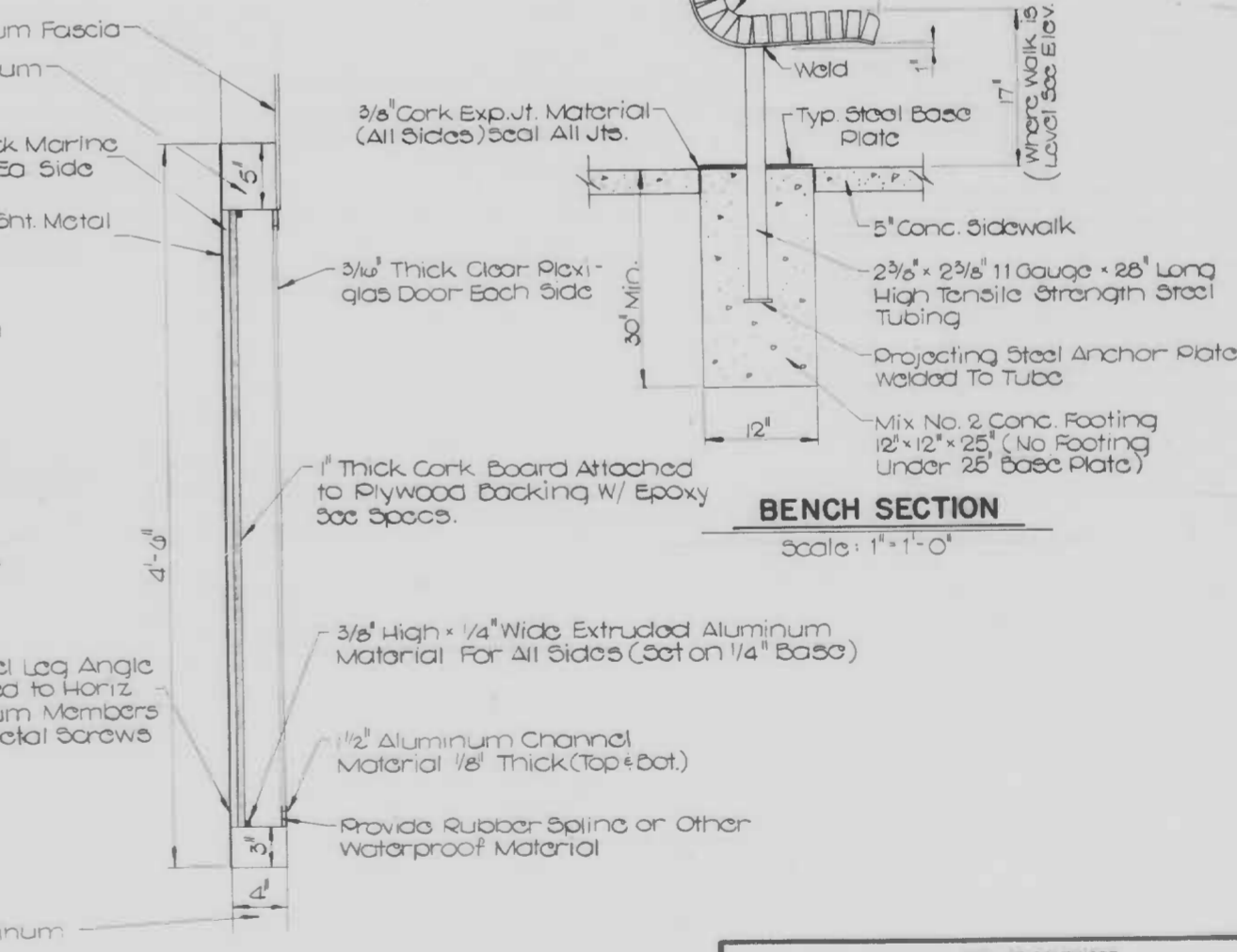
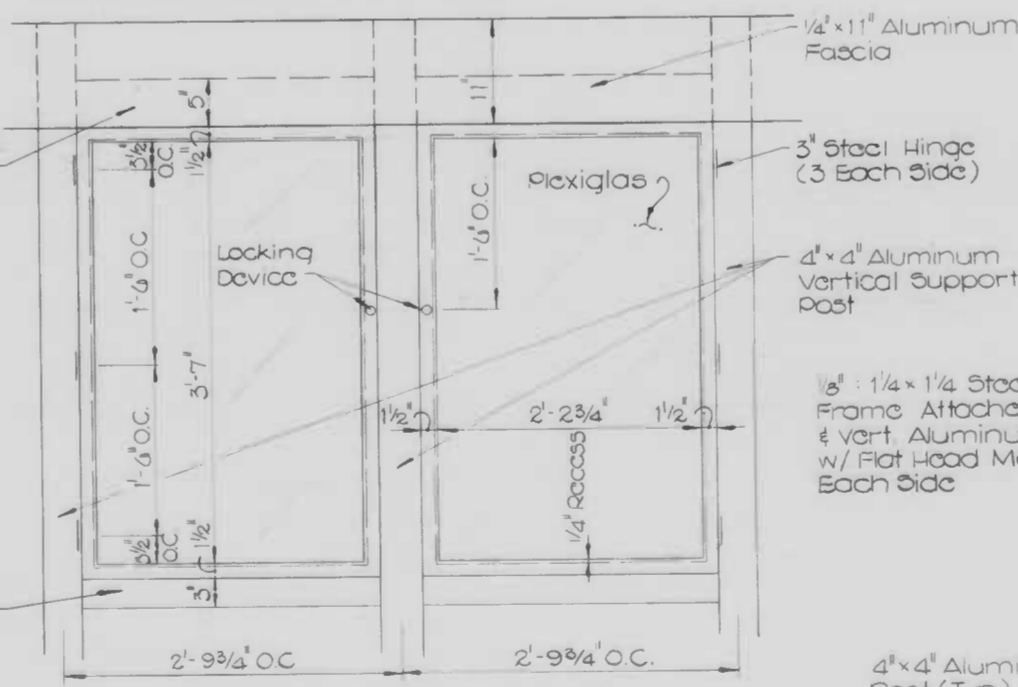
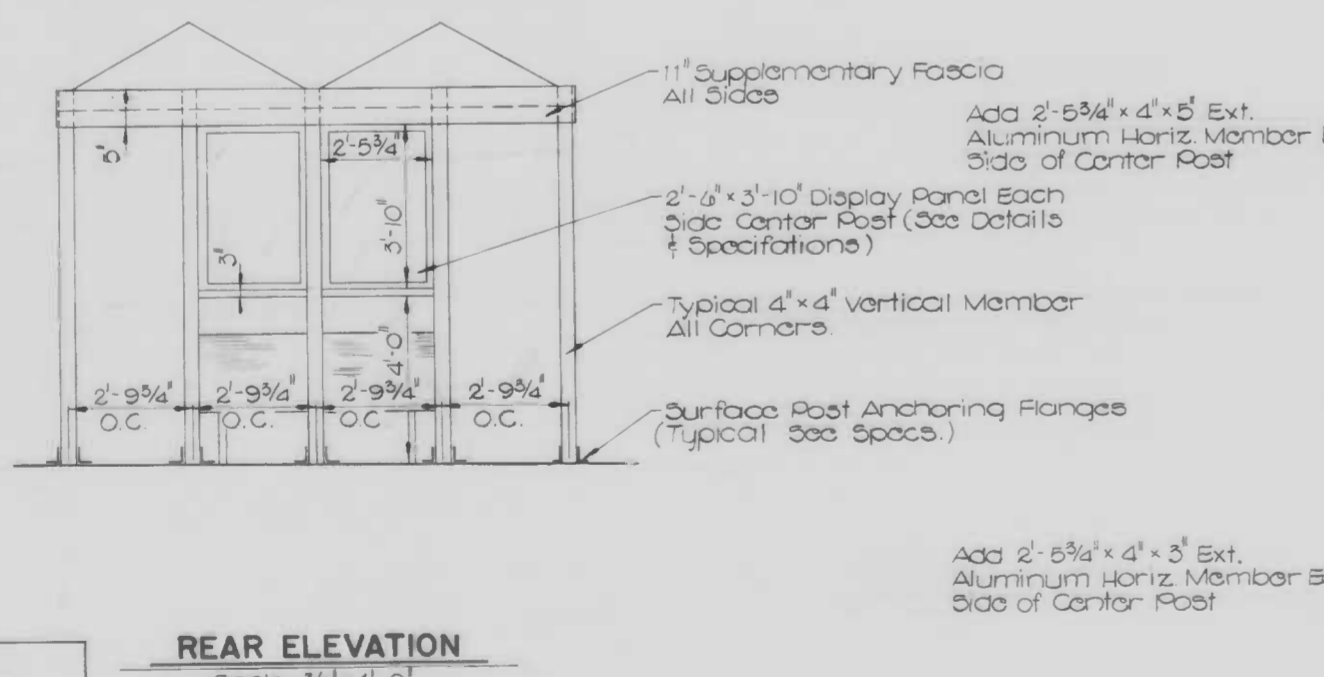
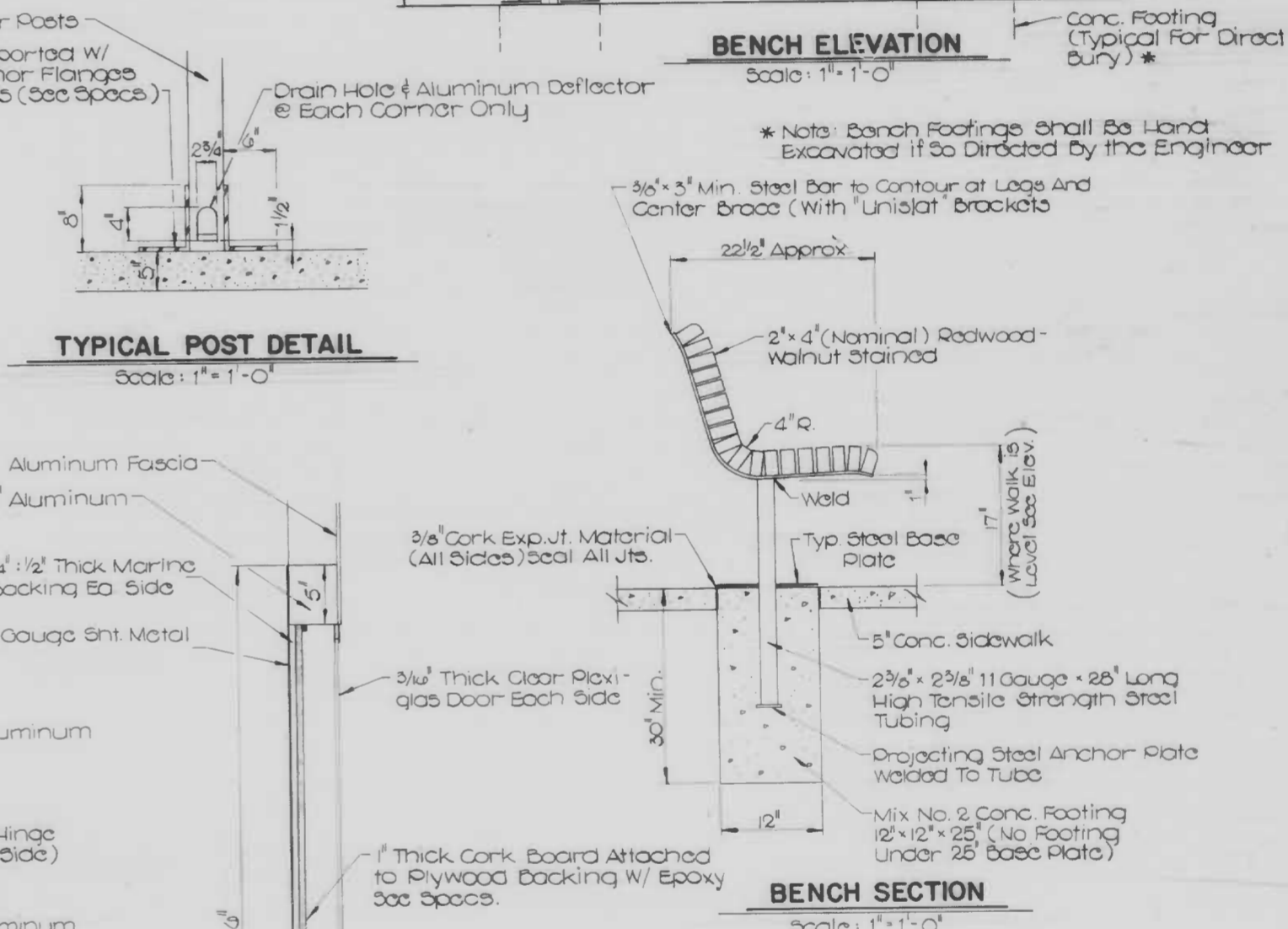
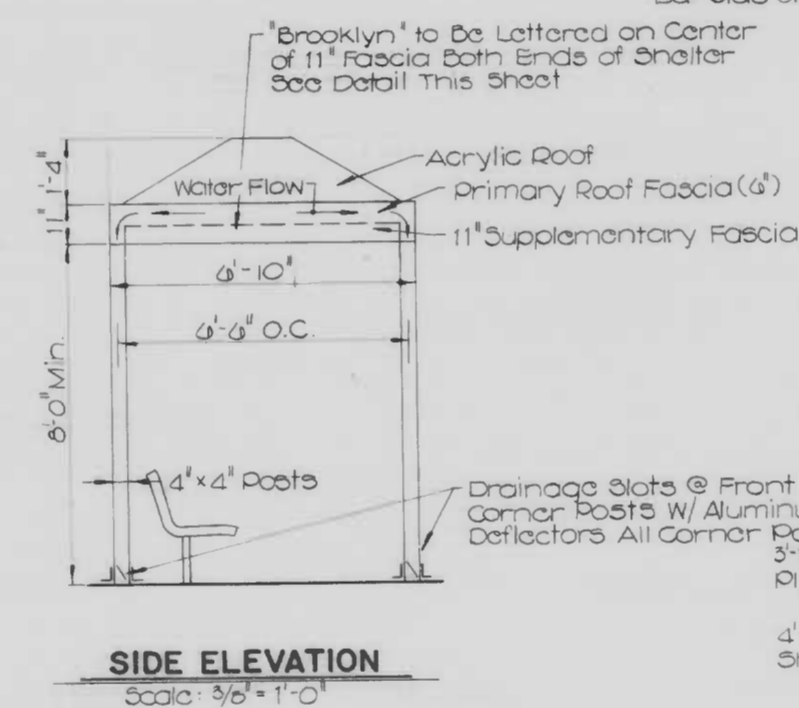
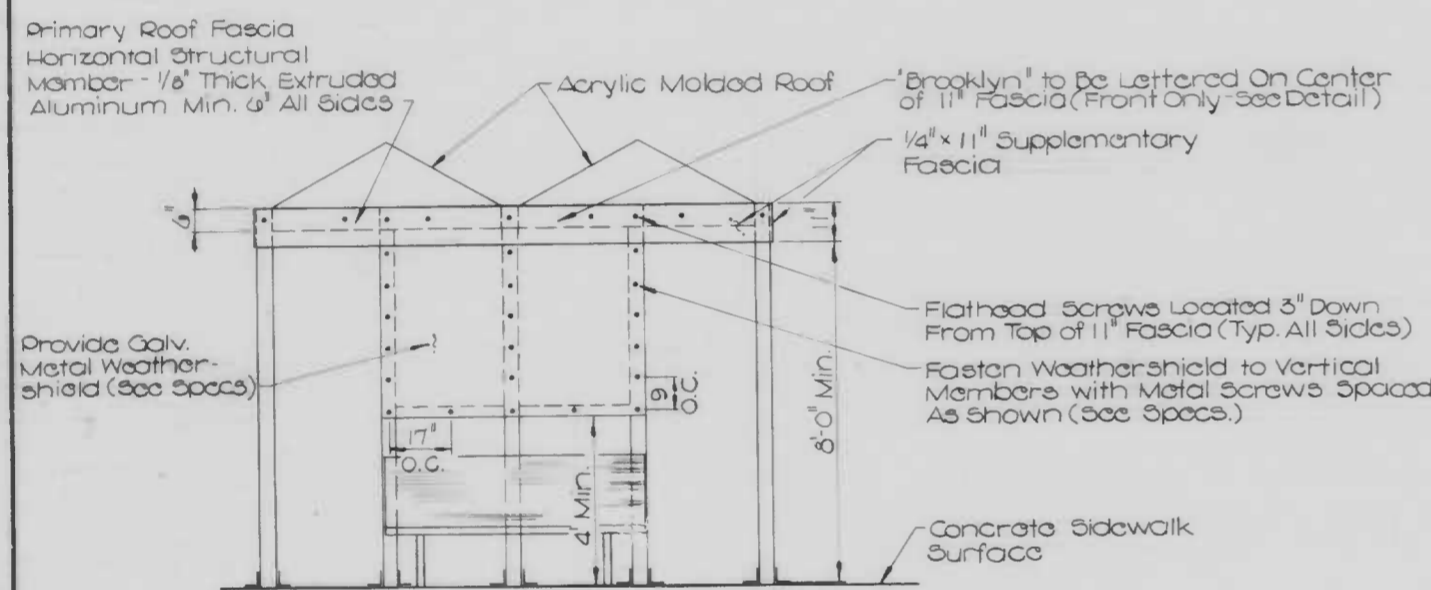
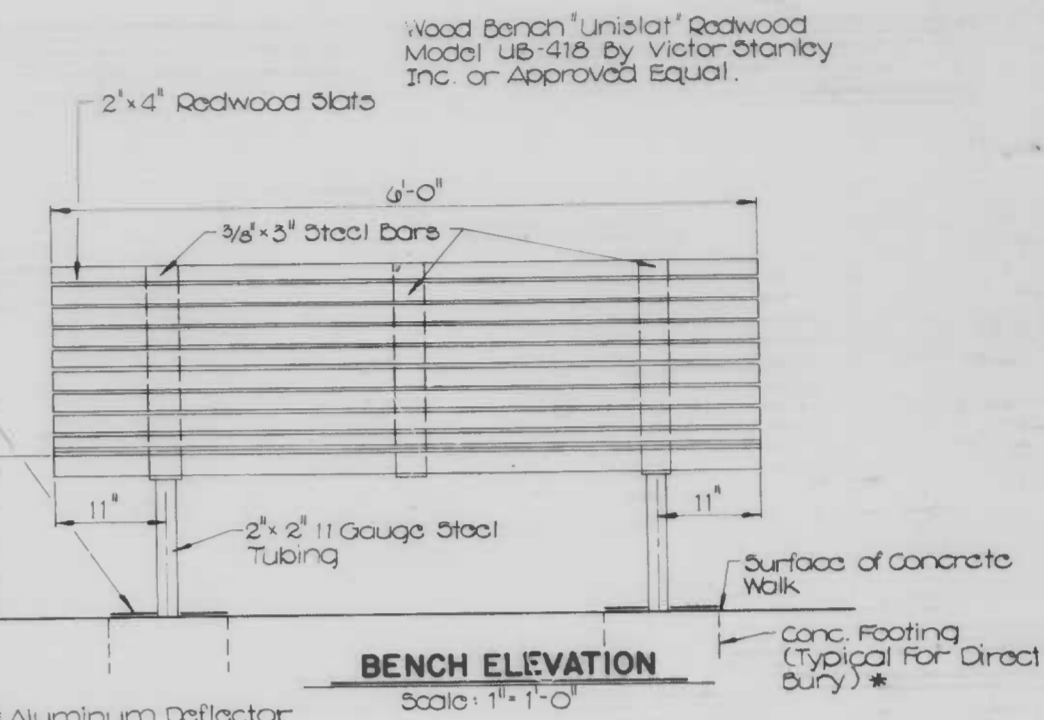
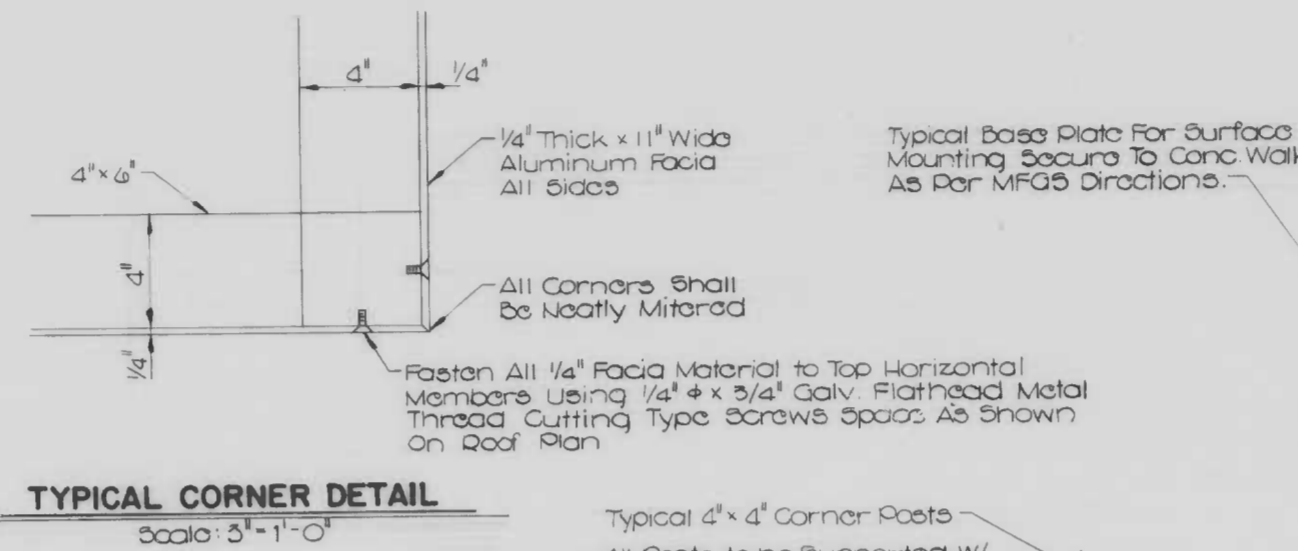
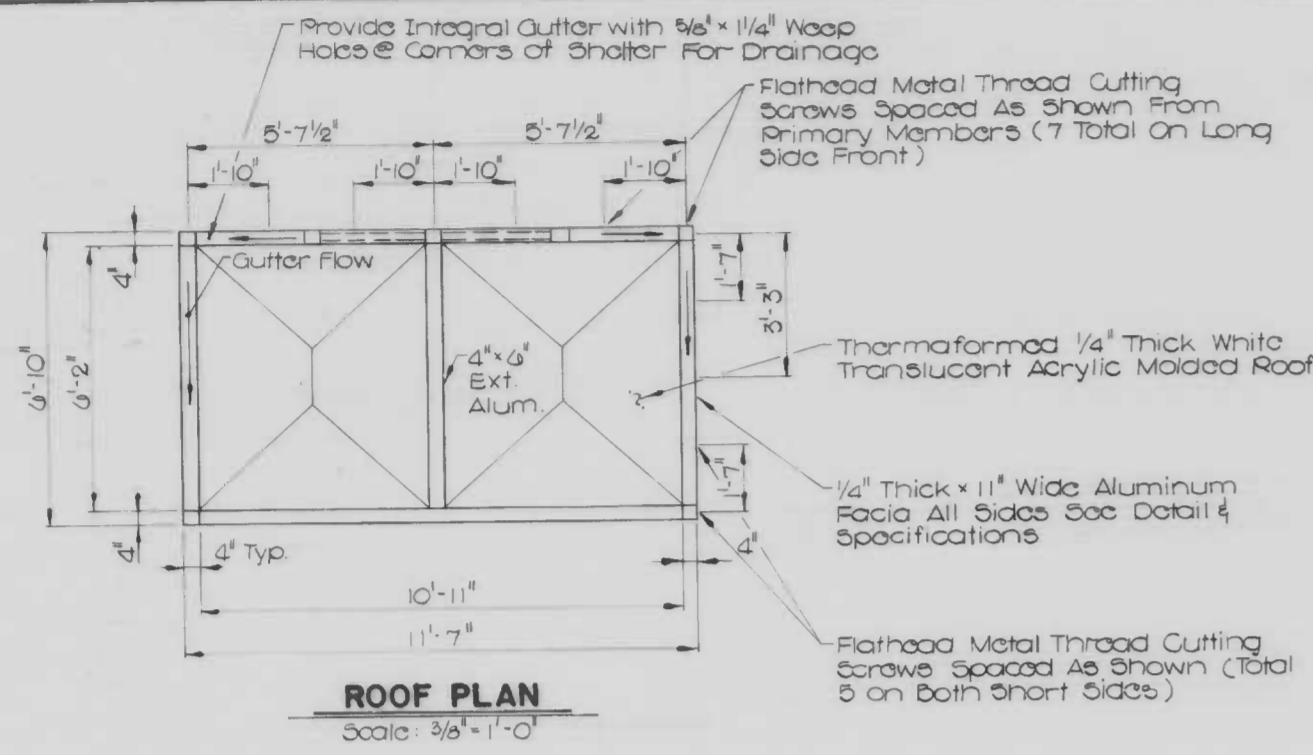
SEAL
 JOHNSON, MIRMIRAN & THOMPSON
 ENGINEER
 DATE LIC. NO.
 DRAWN BY M. D. & K. E. M. C.
 EXAMINED BY

CITY OF BALTIMORE
 DEPARTMENT OF PUBLIC WORKS
 BUREAU OF HIGHWAYS

BROOKLYN BUSINESS AREA

SIDEWALK PAVING AND PLANTING PLAN

SCALE 1" = 20'
 DATE
 BALTIMORE CITY CONTRACT NO. SHEET 5 OF 9



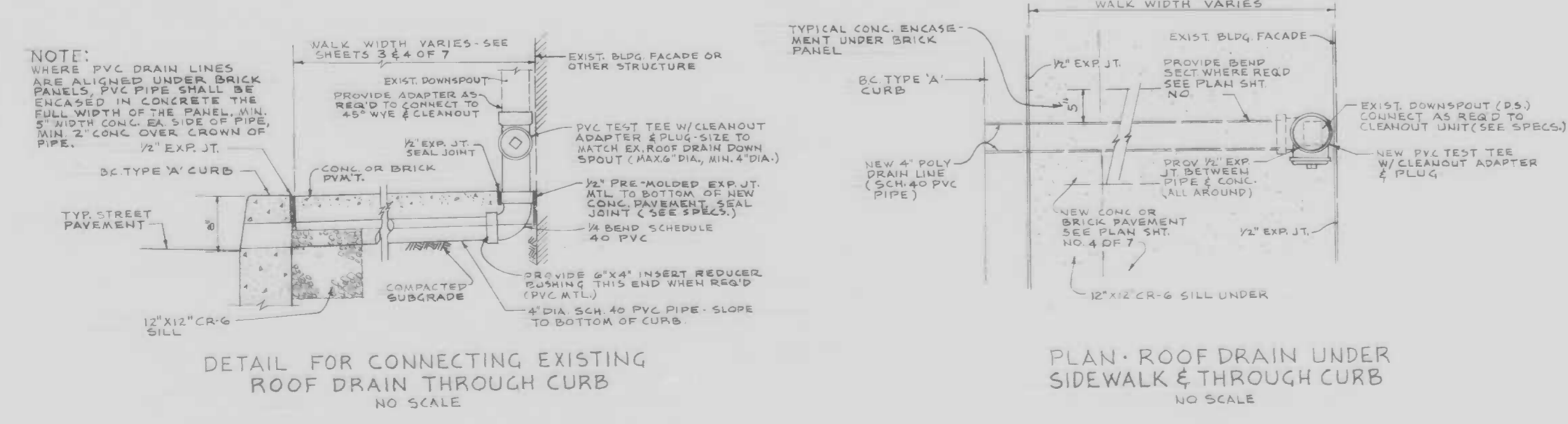
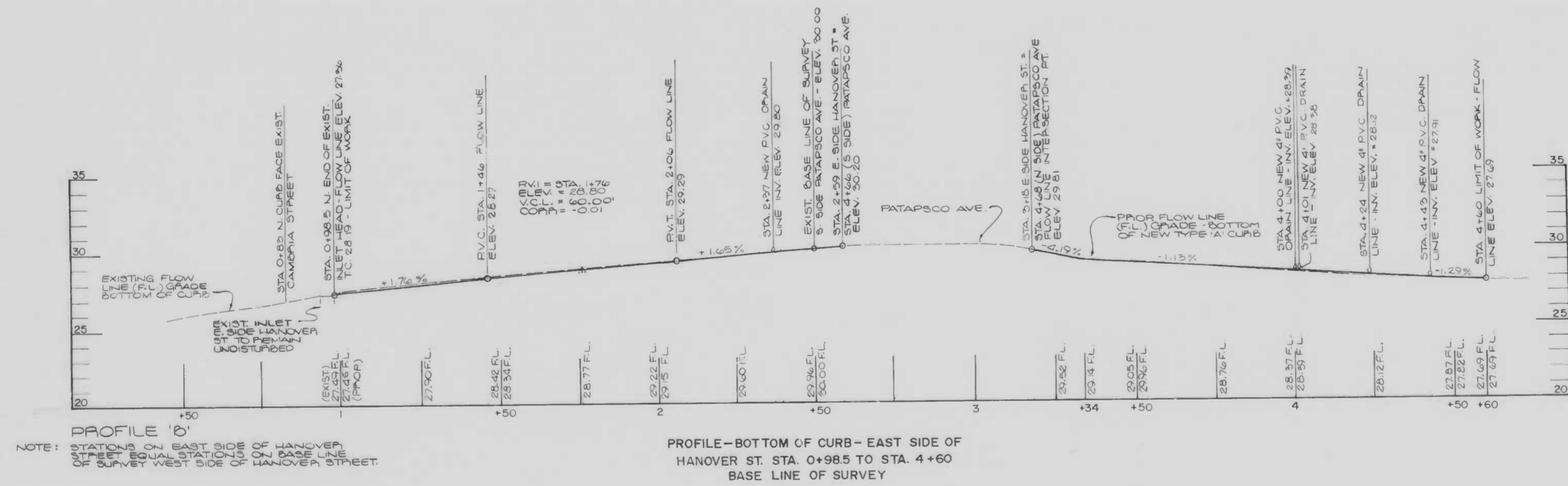
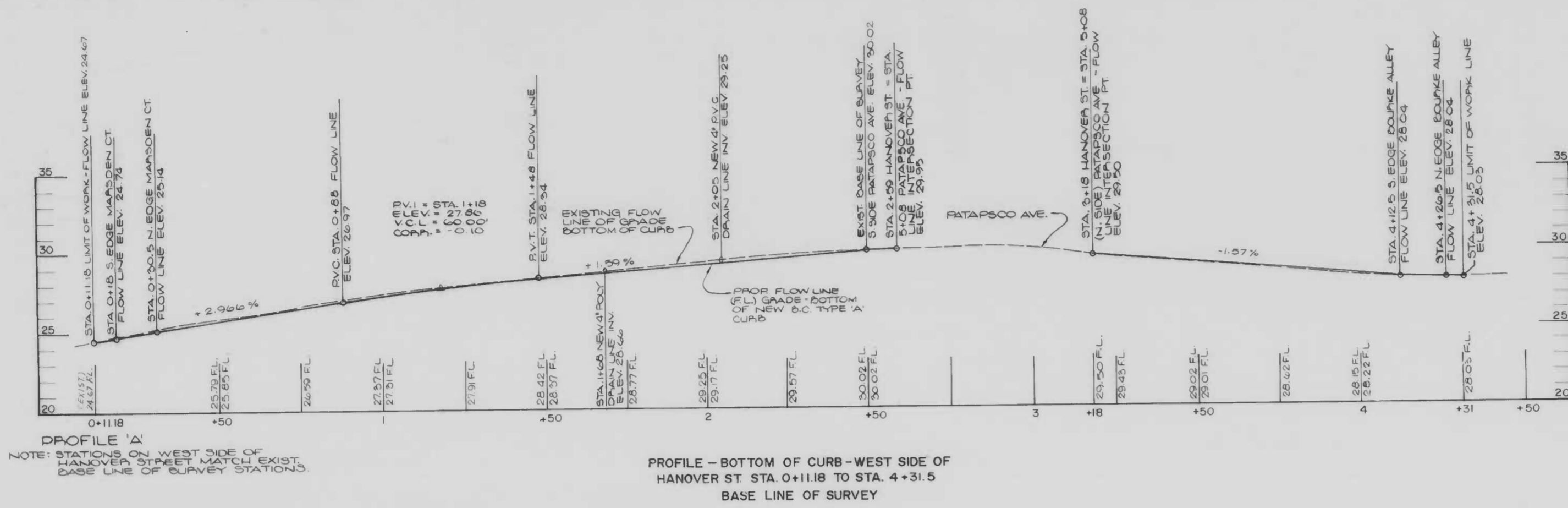
STATE OF MARYLAND
Professional Engineer
JOHNSON, MIRMIRAN & THOMPSON
ENGINEER *Mary Tauler*
DATE 12/14/11 LIC. NO. 9519
DRAWN BY *W.K.S.*
EXAMINED BY *K.E.M.*

- GENERAL NOTES**
- The Contractor shall peruse the written specifications for the bus shelter and become thoroughly familiar with all items described and discussed therein.
 - The Contractor shall provide shop drawings for bus shelter and display panel construction.
 - The primary construction of the bus shelter shall be the same as the bus shelters located on the north side of Saratoga Street just east of the intersection of Saratoga and Greene Streets, Baltimore City.
 - The exact location of the bus shelter shall be determined in the field by a representative of NPA/HCD and the Engineer.
 - Alternate means of anchoring vertical posts may be by the use of surface anchor flanges if so directed by the Engineer.

CITY OF BALTIMORE
DEPARTMENT OF PUBLIC WORKS
BUREAU OF HIGHWAYS

BROOKLYN BUSINESS AREA
PATAPSCO AVE. AND HANOVER STREET
BUS SHELTER AND BENCH DETAILS

SCALE: AS SHOWN DATE: AUG 27, 1965
BALTIMORE CITY CONTRACT NO. SHEET 7 OF 9



NOTE: ALL VERTICAL CURVES ARE SPLINE CURVES

CITY OF BALTIMORE
 DEPARTMENT OF PUBLIC WORKS
 BUREAU OF HIGHWAYS

BROOKLYN BUSINESS AREA

HANOVER STREET
 CURB PROFILES

SCALE: 1"=20' HORIZ., 1"=4' VERT. DATE: _____
 BALTIMORE CITY CONTRACT NO. _____ SHEET 8 OF 9

STATE OF MARYLAND
 PROFESSIONAL ENGINEER

JOHNSON, MARRAS & THOMPSON

ENGINEER *Joseph Johnson*

DATE 10/14/21 LIC. NO. 6119

DRAWN BY M.D.

EXAMINED BY V.E.M.C.

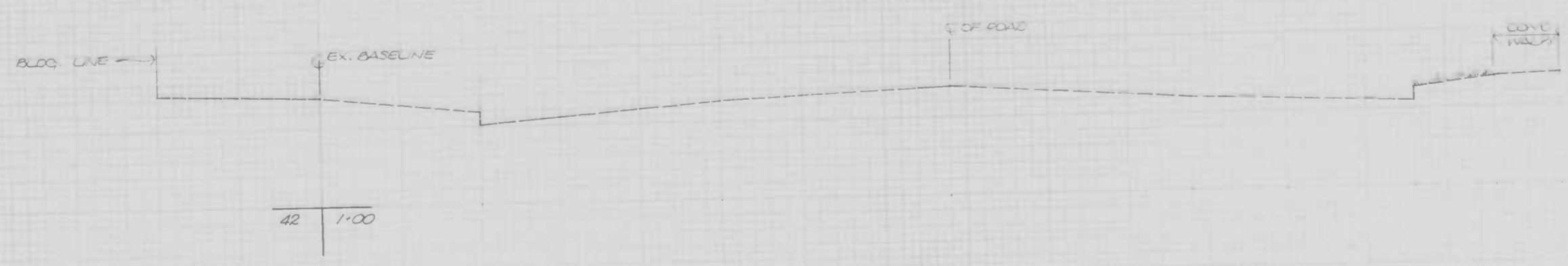
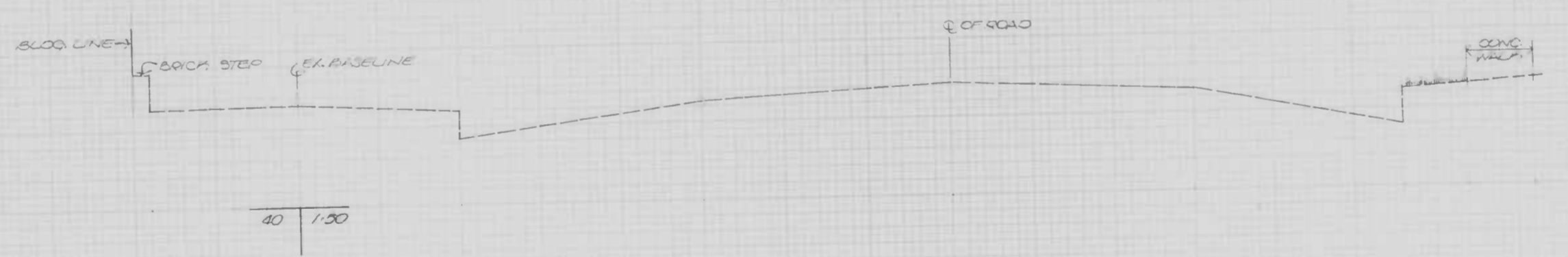
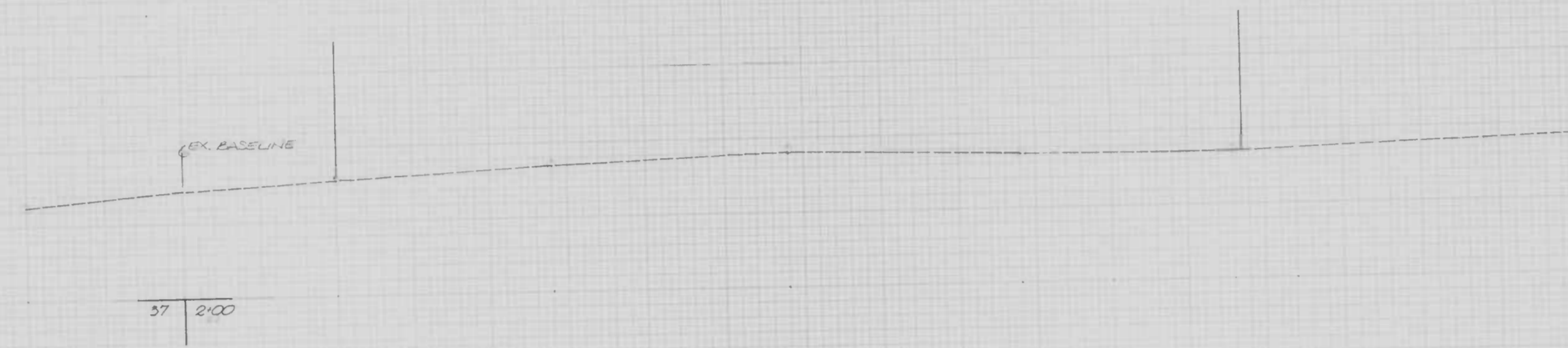
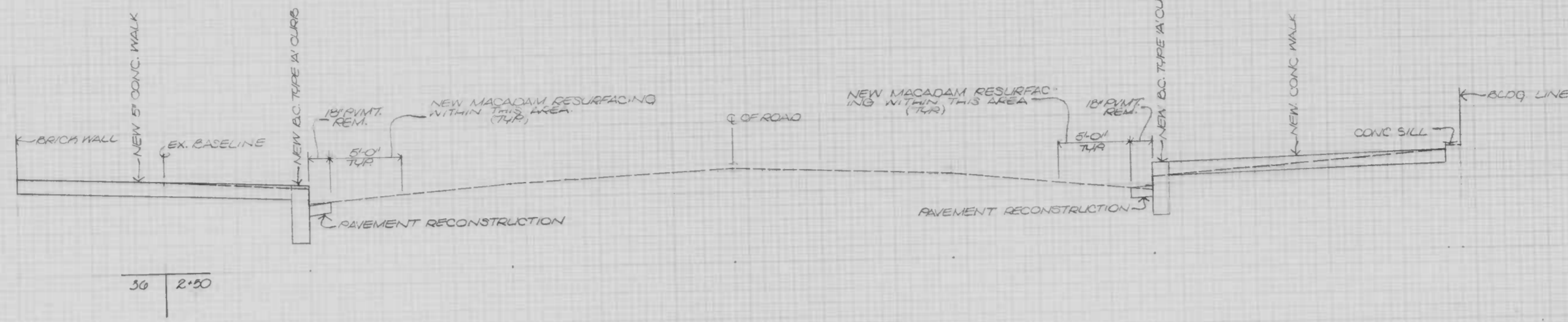
BROOKLYN BUSINESS AREA-PHASE NO.1
 PATAPSCO AVENUE AND HANOVER STREET
 INDEX OF CROSS SECTIONS

CITY OF BALTIMORE
 BUREAU OF HIGHWAYS
 CONTRACT NO. 3088

SH.T. NO.	DESCRIPTION	STATION TO STATION	BALTIMORE CITY
1	PATAPSCO AVE. BOTTOM OF CURB - FLOW LINE GRADES - NEW TYPE 'A' CURB NORTH & SOUTH SIDES	NORTH SIDE	
2		STA. 2+06.5 TO STA. 6+75	
3		SOUTH SIDE	
4		STA. 2+08 TO 7+69	
5	HANOVER ST. BOTTOM OF CURB - FLOW LINE GRADES - NEW TYPE 'A' CURB EAST & WEST SIDES	EAST SIDE	
6		STA. 0+98.5 TO 4+60	
7		WEST SIDE STA. 0+11.18 TO STA. 4+21.5	

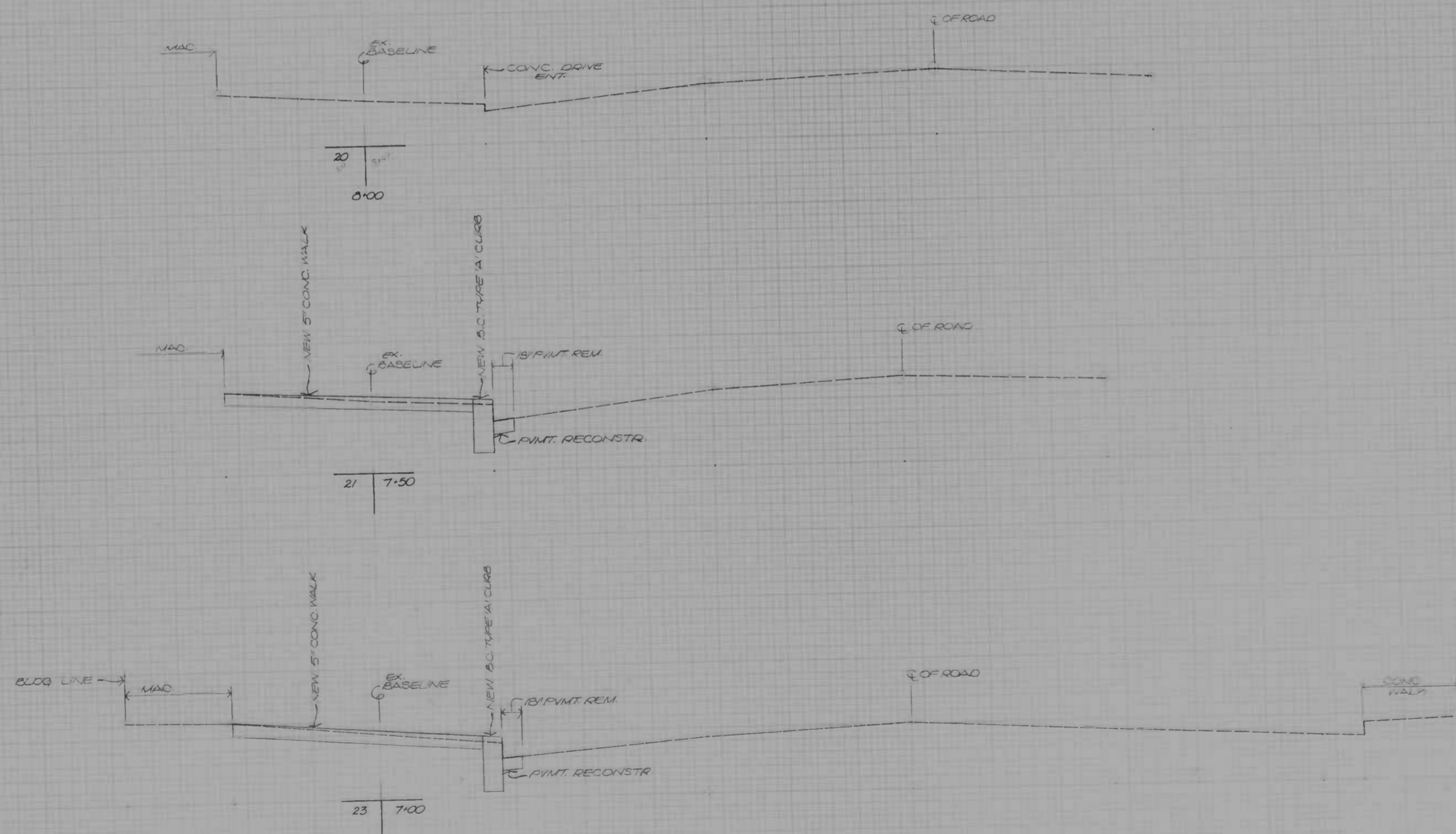
JOHNSON, MIRMIRAN AND THOMPSON, PA.
 ENGINEERS, LANDSCAPE ARCHITECTS, SURVEYORS
 810 GLENEAGLES COURT, SUITE 200
 BALTIMORE, MD 21204

CITY OF BALTIMORE
BUREAU OF HIGHWAYS
CONTRACT NO. 3088



NOTE:
SEE SIDEWALK GRADING PLAN SHEET
NO. 4 OF 9 AND CURB PROFILE SHEETS
NO. 8 AND 9 FOR BEGINNING OF WORK
AND LIMIT OF WORK STATIONS.

CITY OF BALTIMORE
BUREAU OF HIGHWAYS
CONTRACT NO. 3088



DATE	
BY	
CHECKED	
APPROVED	

DATE	
BY	
CHECKED	
APPROVED	

BROOKLYN BUSINESS AREA - PHASE No. 1

30012 - 10/12/75
10/16/75

FATARCO AVENUE STA. 7+00 TO 7+100 0+00 SHEET 4 OF 7

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