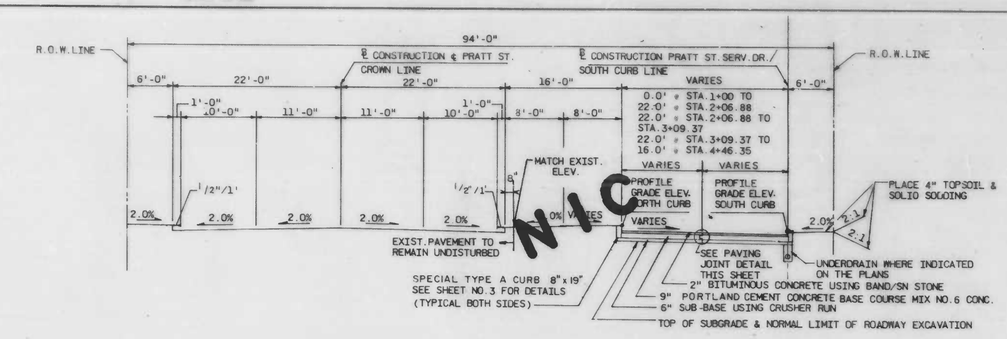
RATIO - 24

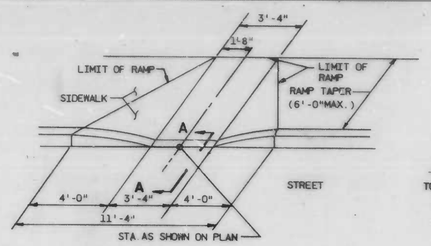
FILE REF.



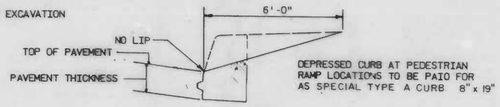
TYPICAL SECTION PRATT ST. SERVICE DRIVE

STA. 1+00.00 TO STA. 4+87.87

SCALE: 1/8"=1'-0"



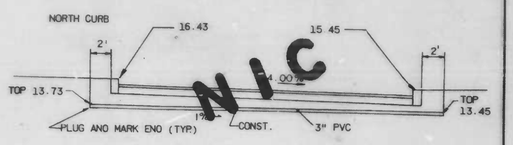
PLAN



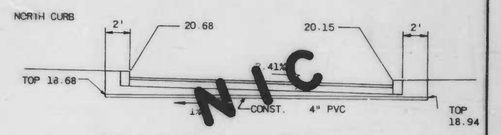
SECTION A-A

PEDESTRIAN RAMP

NOT TO SCALE:



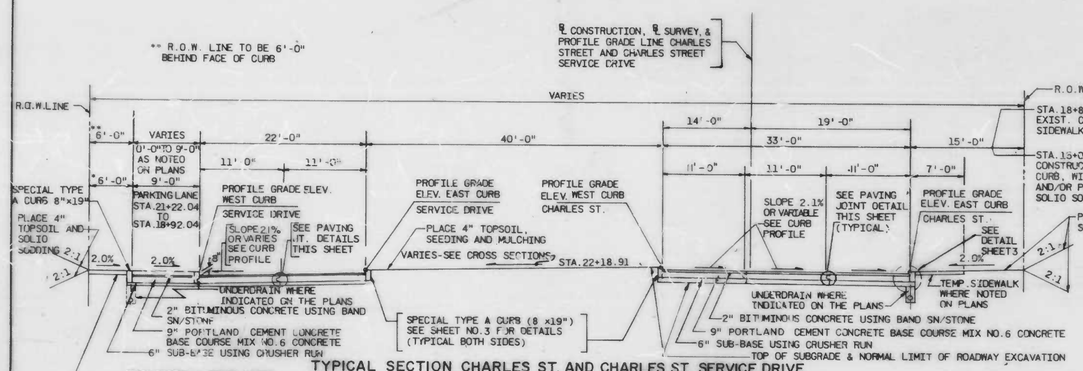
STA. 4+30 PRATT ST. SERVICE DRIVE



STA. 2+05 PRATT ST. SERVICE DRIVE

PROFILE OF SLEEVES FOR FUTURE WATERLINES

SCALE: 1" = 5'

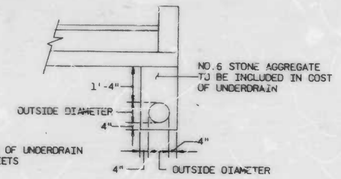


TYPICAL SECTION CHARLES ST. AND CHARLES ST. SERVICE DRIVE

STA. 15+03.00 TO 21+98.18 CHARLES ST.

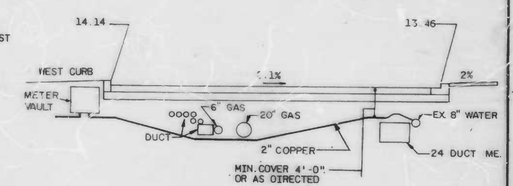
STA. 15+08.00 TO STA. 16+79.02 CHARLES ST. SERVICE DRIVE

SCALE 1/8" = 1'-0"



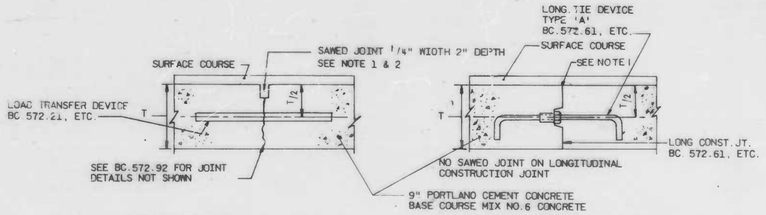
PERFORATED CIRCULAR PIPE UNDERDRAIN

SCALE: 1" = 2'-0"



PROFILE NEW 2" WATER SERVICE

STA. 21+62 CHARLES ST.



CONTRACTION JOINT

LONGITUDINAL CONSTRUCTION JOINT

PAVING JOINT DETAIL

NOTE 1: JOINT SEALANT: SEE SPECIAL PROVISIONS

NOTE 2: ALL TRANSVERSE CONTRACTION JOINTS SHALL BE SAW FORMED AS SHOWN ON DETAILS ON THIS SHEET. COST OF ALL SAW CUTS AND JOINT SEALANT SHALL BE INCLUDED IN THE COST OF 9-INCH PORTLAND CEMENT CONCRETE BASE COURSE MIX NO. 6 CONCRETE.

REVISIONS			
NO.	DESCRIPTION	DATE	BY

PREPARED BY

EWELL, BOMHARDT & ASSOC.

Consulting Engineers

BALTIMORE, MARYLAND

CITY OF BALTIMORE
DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT
CHARLES CENTER-INNER HARBOR MANAGEMENT, INC.

INNER HARBOR WEST
STREET CONTRACT NO. 4
RECONSTRUCTION OF CHARLES STREET
FROM CONWAY STREET TO PRATT STREET
CHARLES STREET SERVICE DRIVE
FROM CONWAY STREET TO PERRY STREET

TYPICAL SECTIONS AND DETAILS

SCALE: AS NOTED HWY. CONT. 2523 DATE: JUNE, 1978

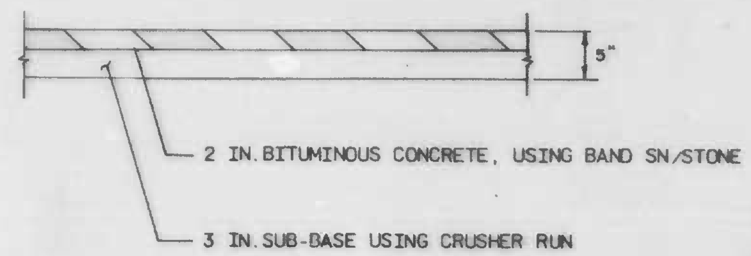
DESIGNED SWP DRAWN BER CHKD SWP SHEET 2 OF 14

K&E BALTIMORE 19 1388 HERCULENE MC 6026

FILE REF.

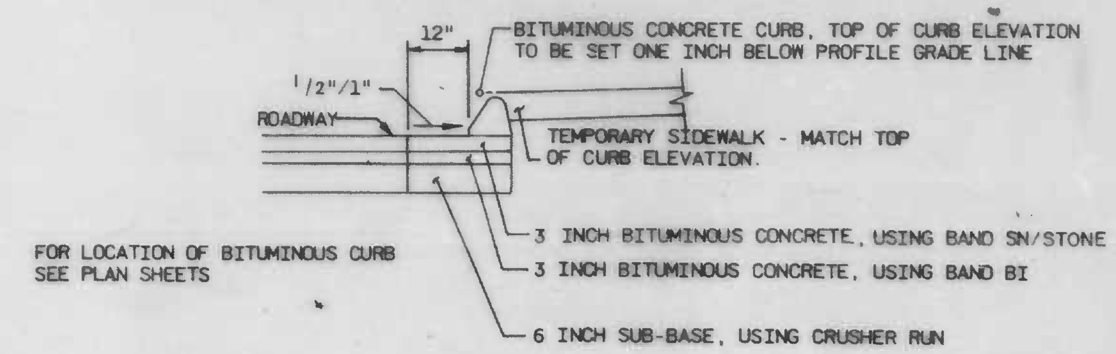
RATIO - 24

FILE REF.



PAVING SECTION A

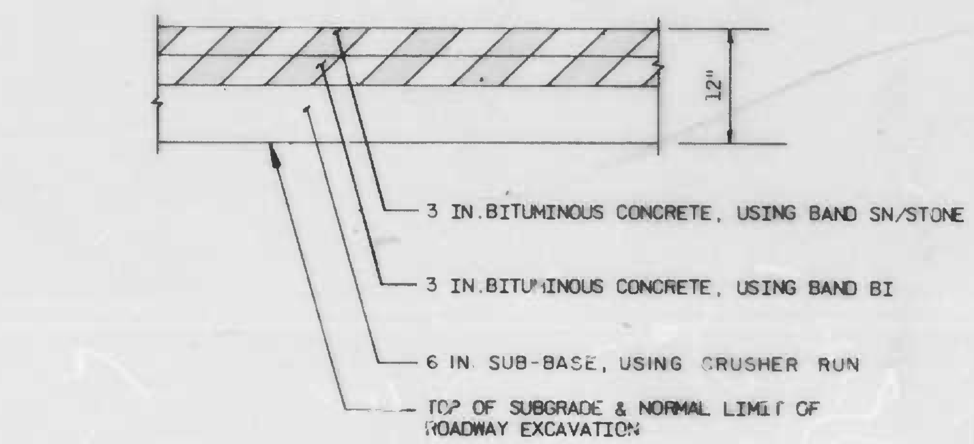
TEMPORARY SIDEWALK



CURB TYPE 'B'

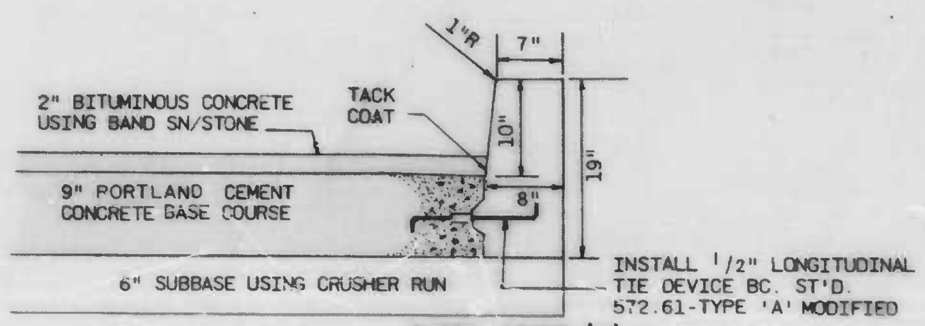
BITUMINOUS CONCRETE CURB (TEMPORARY)

SCALE: 1" = 2'-0"



PAVING SECTION B

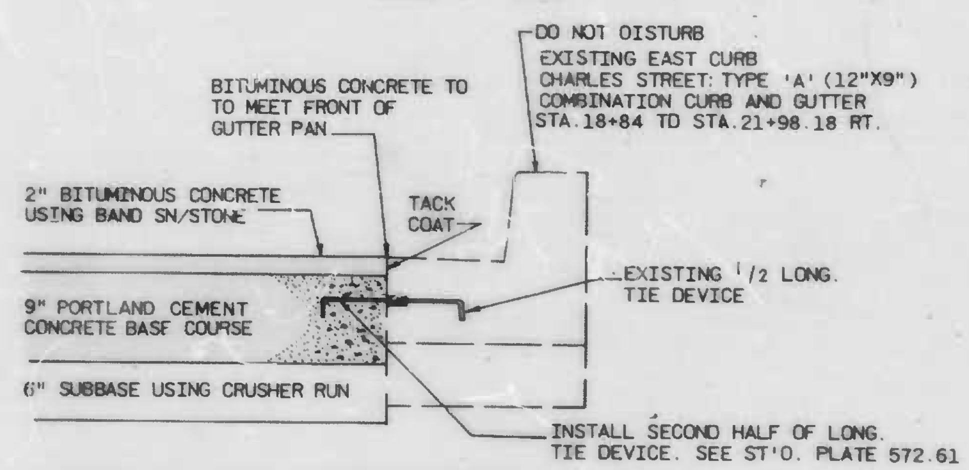
BITUMINOUS CONCRETE PAVEMENT (TEMPORARY)



CURB TYPE 'A'

SPECIAL TYPE A CURB (8×19)

SCALE: 1" = 1'-0"

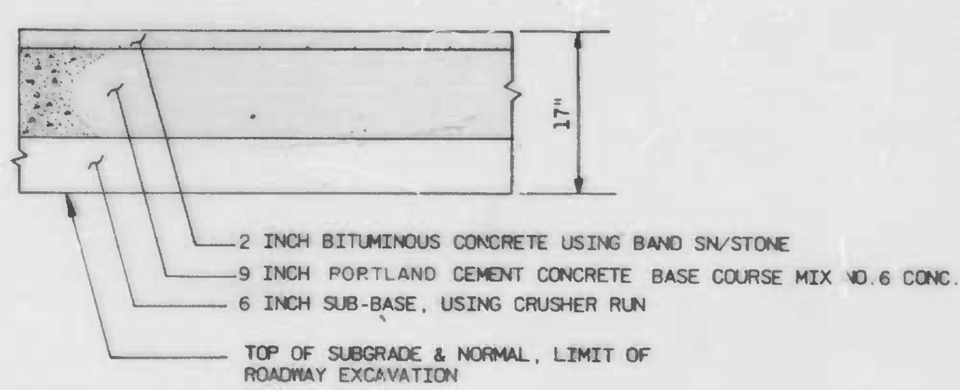


CURB AND PAVEMENT DETAIL

EXISTING EAST CURB CHARLES ST.

STA. 18+84 TO STA. 21+98.18 RT.

SCALE: 1" = 1'-0"



PAVING SECTION C

PORTLAND CEMENT CONCRETE BASE COURSE

2 INCH BITUMINOUS CONCRETE BAND SN/STONE

PAVING SYMBOLS

C	9 INCH PORTLAND CEMENT CONCRETE BASE COURSE MIX NO.6 CONCRETE WITH 2" CONCRETE BAND SN/STONE
B	BITUMINOUS CONCRETE PAVEMENT (TEMPORARY)
A	TEMPORARY SIDEWALK

REVISIONS

NO.	DESCRIPTION	DATE	BY

GENERAL NOTES

1. WHENEVER REFERENCE IS MADE TO THE STANDARD PLATES, IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ASSURE HIMSELF THAT THE STANDARD PLATES IN HIS POSSESSION ARE THE LATEST REVISED BALTIMORE CITY PLATES UP TO AND INCLUDING THE DATE OF ADVERTISEMENT OF THIS CONTRACT.
2. SPECIAL ATTENTION IS DIRECTED TO THE REQUIREMENTS FOR MAINTENANCE OF TRAFFIC AND UTILITY SERVICE DURING THE CONSTRUCTION OF THIS PROJECT. SEE SPECIAL PROVISIONS.
3. HORIZONTAL AND VERTICAL CONTROL: ALL BEARINGS, NORTH ARROWS & COORDINATES FOR THIS PROJECT ARE REFERENCED TO THE BALTIMORE CITY CONTROL SYSTEM LEVEL DATUM: ALL ELEVATIONS ARE BASED ON THE CITY OF BALTIMORE SURVEY CONTROL DATUM.
4. CONTRACTOR IS WARNED THAT IT IS HIS RESPONSIBILITY TO OBTAIN ALL PERMITS & LICENSES REQUIRED TO COMPLETE JOB. FOR INFORMATION CONTACT BALTIMORE CITY CUSTOMER SERVICE AT (301)-539-5151 FOR PERMITS & LICENSES REQUIRED.
5. EXISTING UTILITIES SHOWN ON THE DRAWINGS ARE FOR THE CONVENIENCE OF THE CONTRACTOR ONLY AND THE CITY DOES NOT WARRANT OR GUARANTEE THE CORRECTNESS OR THE COMPLETENESS OF THE INFORMATION GIVEN. THE CONTRACTOR MUST VERIFY ALL SUCH INFORMATION TO HIS SATISFACTION. APPROXIMATE DEPTHS OF EXISTING WATER MAIN, GAS MAINS, AND DUCT BANKS ARE SHOWN ON THE VARIOUS PROFILES.
6. GAS & ELECTRIC COMPANY UTILITIES (GAS, ELECTRIC & STEAM):
   THREE (3) DAYS BEFORE STARTING WORK THE CONTRACTOR SHALL NOTIFY THE BALTIMORE GAS & ELECTRIC COMPANY REPRESENTATIVE AT 234-6971, 265-7500 AND MISS UTILITY 559-0100.
7. CHESAPEAKE & POTOMAC COMPANY UTILITIES:
   CALL (MISS UTILITY) (301)-559-0100 AND C&P AT 393-4196, AND 393-4212(3) DAYS BEFORE DIGGING
8. BUREAU OF OPERATIONS / WATER DIVISION.
   THREE (3) DAYS BEFORE STARTING WORK, THE CONTRACTOR SHALL NOTIFY THE BUREAU OF OPERATIONS, (301)-396-0315. ALL VALVES TO BE OPERATED BY BUREAU OF OPERATIONS FORCES ONLY.
9. FIRE DEPARTMENT
   THREE (3) DAYS BEFORE STARTING WORK, THE CONTRACTOR SHALL NOTIFY THE FIRE DEPARTMENT (301)-396-5798.
10. THE LOCATION & INVERTS OF DRAINAGE STRUCTURES ARE SUBJECT TO MODIFICATION AS MAY BE REQUIRED BY FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. LENGTHS OF PIPE SHOWN ON STORM DRAIN AND UTILITY PLANS AND PROFILES ARE MEASURED CENTERLINE TO CENTERLINE OF INLETS, MANHOLES AND OTHER STRUCTURES. TOP OF GRATE ELEVATION FOR INLETS ARE APPLIED AT BOTTOM OF CURB. TOP ELEVATION FOR MANHOLE RIMS ARE APPLIED AT CENTERLINE OF RIM FOR STANDARD MANHOLES.
11. MANHOLES:
    ALL STORM WATER MANHOLES SHALL HAVE STANDARD 30" MANHOLE FRAME & COVER. SEE BC.-383-13 AND BC.-383-14 FOR DETAILS, SEE PLAN SHEET FOR COORDINATES OF ALL MANHOLES. PIPE INVERTS SHOWN ON PROFILES ARE AT ¢ MANHOLE.
12. INLET CONSTRUCTION:
    INLETS MAY BE CONSTRUCTED OF BRICK OR REINFORCED CONCRETE AS SHOWN ON THE STANDARD PLATES. TOP 5" OF WALLS MAY BE BRICK MASONRY. ADDITIONAL BRICK MAY BE USED TO BRING THE GRATE TO GRADE IF REQUIRED. REINFORCEMENT TO BE NO.4 BARS, @ 0'-6" o.c., 2 WAYS REINFORCEMENT REQUIRED ON OUTSIDE AS WELL AS INSIDE OF WALLS BELOW 7'-0" WHEN 'd' IS GREATER THAN 7'-0" SPACING SAME AS FOR INSIDE WALL. PLACE 1/4" EXPANSION MATERIAL OF SAME TYPE APPROVED FOR PAVEMENT BETWEEN THE FRAME AND ABUTTING RIGID PAVEMENT AND BETWEEN ENDS OF INLET CURB AND NORMAL CURB. TYPE 'S' AND DOUBLE 'S' COMBINATION INLETS ARE TO BE UNDEPRESSED.
13. ADJUSTING EXISTING UTILITIES:
    THE CONTRACTOR SHALL RAISE OR LOWER ALL EXISTING MANHOLE FRAMES & COVERS, INLETS ETC. TO ESTABLISHED GRADE AS REQUIRED EVEN THOUGH THIS WORK IS NOT SPECIFICALLY LOCATED ON THE PLANS. COST OF THIS WORK TO BE EITHER INCLUDED IN PAVEMENT ITEMS OR INCLUDED IN REBUILD EXIST. STORM OR SANITARY MANHOLES OR APPROPRIATE ELECTRICAL ITEMS. SEE SPECIAL PROVISIONS.
14. MANHOLES STEPS FOR INLETS:
    PLACE STANDARD MANHOLE STEPS IN ALL INLETS 5'-0" OR MORE IN DEPTH. SPACE AT 1'-3" VERTICALLY.
15. SALVAGED MATERIALS:
    GRATE AND FRAME FROM INLETS TO BE REMOVED SHALL BE SALVAGED AS BALTIMORE CITY PROPERTY. ALL LIGHT POLES, TRAFFIC SIGNAL POLES, FIRE ALARM BOXES, WATER METERS AND COVERS AND ALL OTHER BALTIMORE CITY OWNED UTILITY DEVICES SHALL BE SALVAGED FOR THE CITY WHEN DIRECTED BY THE ENGINEER. ALL OTHER MATERIALS NOT DESIGNATED BY THE ENGINEER SHALL BECOME THE PROPERTY OF THE CONTRACTOR.
16. TRENCH COVER PLATE:
    FOR MAINTENANCE OF TRAFFIC, INSTALL STREET CUT AND REPAIR TEMPORARY STEEL PLATE ST'D. NO. BC-576-17. COST OF THIS WORK INCLUDED IN "MAINTENANCE OF TRAFFIC".
17. ABANDONMENT OF EXISTING UTILITIES:
    ABANDONMENTS OF EXISTING UTILITIES DESIGNATED ON DRAWINGS ARE INTENDED GENERALLY TO SHOW THE LINES TO BE ABANDONED WITHIN THIS CONTRACT. THE CONTRACTOR SHALL NOT INTERRUPT ANY UTILITY SERVICES WITHOUT SPECIFIC ORDERS FROM THE OWNER OF THAT UTILITY. WHERE A SPECIFIC LINE IS ORDERED ABANDONED, LATERALS AND BUILDING SERVICES CONNECTED THERETO SHALL ALSO BE ABANDONED AS DIRECTED BY THE UTILITY OWNER.
18. GRAVEL CRADLE:
    ALL R.C. PIPE SHALL HAVE STANDARD GRAVEL CRADLE - SEE ST'D. NO. BC-302-01.
19. CONDUIT MANHOLES:
    ALL CONDUIT MANHOLES AFFECTED BY THE WORK SHOWN ON THESE PLANS SHALL HAVE A STANDARD "D.P.W. CONDUIT" 36 IN. DIAMETER COVER. WHERE REQUIRED, THE CONTRACTOR SHALL INSTALL NEW FRAME AND COVERS, WHICH WILL BE SUPPLIED BY THE CITY.
20. EXISTING UTILITY SUPPORT:
    THE CONTRACTOR SHALL FULLY SUPPORT IN PLACE ALL EXISTING UTILITY LINES WHERE EXPOSED BY STORM DRAIN TRENCH EXCAVATION. COST OF SUPPORT TO BE INCLUDED IN THE PRICE OF VARIOUS SIZE PIPES.
21. ALL H.P. STREET VALVE COVERS, SIDEWALK OPENING COVERS AND THEIR RESPECTIVE FLANGED RETAINING RINGS MUST BE SALVAGED AND REUSED. THERE ARE NO REPLACEMENTS. CONTRACTOR MUST PROTECT FROM LOSS AND/OR DAMAGE.
22. WATER MAINS:
    ALL PROPOSED WATER MAINS SHALL BE TESTED TO A TEST PRESSURE OF 150 P.S.I. EXTREME CAUTION SHALL BE OBSERVED BY THE CONTRACTOR WHEN WORKING OVER OR NEAR EXISTING WATER MAINS.
23. THE CONTRACTOR AGREES TO CONTRIBUTE TO THE PRESERVATION AND ENHANCEMENT OF STRUCTURES AND OBJECTS OF HISTORICAL, ARCHITECTURAL OR ARCHAEOLOGICAL SIGNIFICANCE WHEN SUCH ITEMS ARE FOUND AND/OR UNEARTHED DURING THE COURSE OF PROJECT CONSTRUCTION AND TO CONSULT WITH THE STATE HISTORIC PRESERVATION OFFICER FOR RECOVERY OF THE ITEMS. (REFERENCE: NATIONAL HISTORIC PRESERVATION ACT OF 1966 (80 STAT. 915, 16 USC 470) AND EXECUTIVE ORDER NO.11593 OF MAY 31, 1971.

STATE OF MARYLAND — JAMES P. BEAHN — NO. 9… — REGISTERED PROFESSIONAL ENGINEER

PREPARED BY:

EWELL, BOMHARDT & ASSOC.

Consulting Engineers

BALTIMORE, MARYLAND

CITY OF BALTIMORE

DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT

CHARLES CENTER-INNER HARBOR MANAGEMENT, INC.

INNER HARBOR WEST

STREET CONTRACT NO. 4

RECONSTRUCTION OF CHARLES STREET

FROM CONWAY STREET TO PRATT STREET

CHARLES STREET SERVICE DRIVE

FROM CONWAY STREET TO PERRY STREET

PAVING DETAILS GENERAL NOTES

SCALE: AS NOTED HWY. CONT. 2523 DATE: JUNE, 1978

DESIGNED: S.W.P. DRAWN B.E.R. CHKD. S.W.P. SHEET 3 OF 14

FILE REF.

RATIO - 24

FILE REF.

HORIZONTAL CONTROL COORDINATES

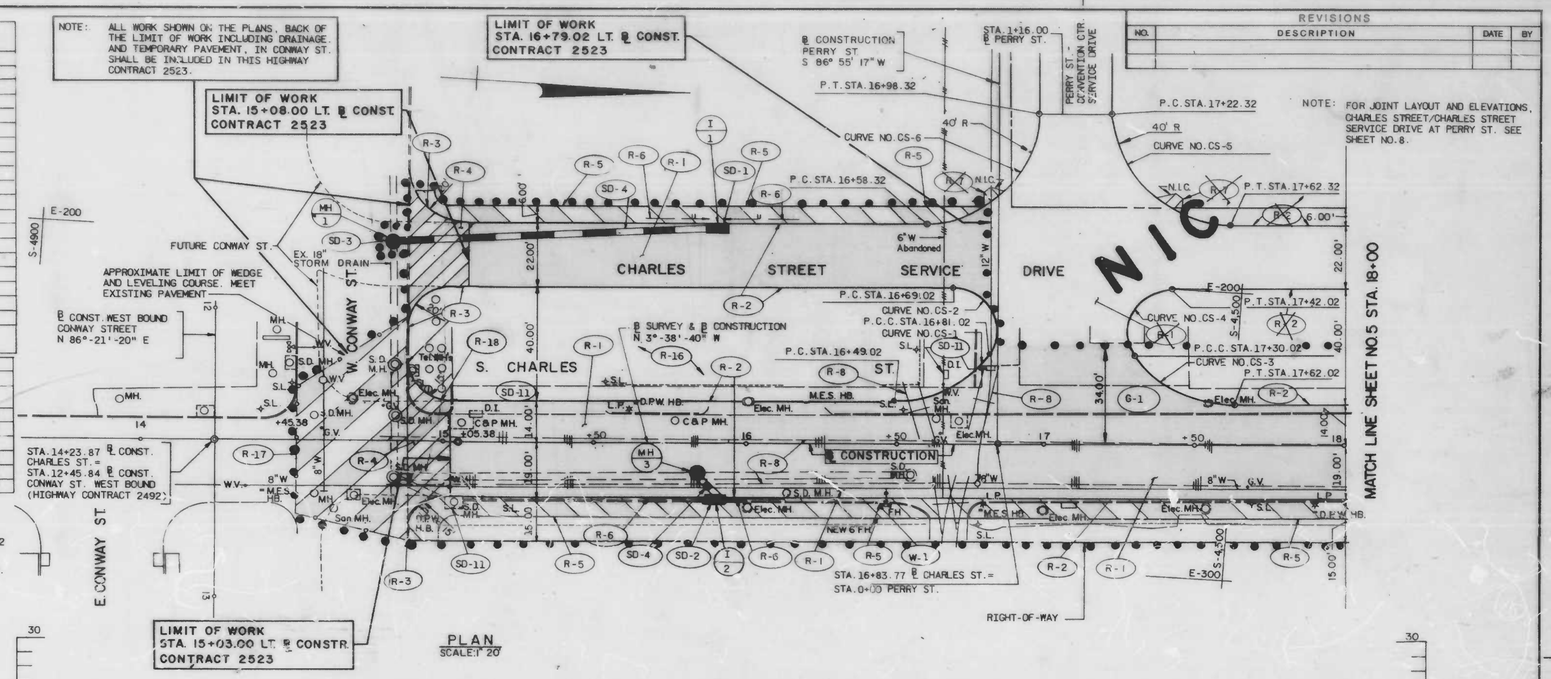
DESCRIPTION	COORDINATES SOUTH	COORDINATES EAST
CHARLES STREET AND CHARLES STREET SERVICE DRIVE		
P.C. CURVE NO. CS-1 STA. 16+49.02 (14.00' LT.) ℄ CHARLES ST.	4,614.03	245.0°
P.I. CURVE NO. CS-1	4,594.07	243.75
P.C.C. CURVE NO. CS-1 STA. 16+81.02 (30.00' LT.) ℄ CHARLES ST.	4,583.11	227.02
P.C.C. CURVE NO. CS-3 STA. 17+30.02 (30.00' LT.) ℄ CHARLES ST.	4,534.21	223.90
P.I. CURVE NO. CS-3	4,521.22	239.11
P.T. CURVE NO. CS-3 STA. 17+62.02 (14.00' LT.) ℄ CHARLES ST.	4,501.26	237.84
P.C. CURVE NO. CS-2 STA. 16+69.02 (54.00' LT.) ℄ CHARLES ST.	4,596.61	203.83
P.I. CURVE NO. CS-2	4,566.67	201.92
P.T. CURVE NO. CS-4 STA. 17+42.02 (54.00' LT.) ℄ CHARLES ST.	4,523.76	199.19
P.I. CURVE NO. CS-4	4,553.70	201.09
P.C. CURVE NO. CS-6 STA. 16+58.32 (76.00' LT.) ℄ CHARLES ST.	4,608.69	182.55
P.I. CURVE NO. CS-6	4,568.77	180.01
P.T. CURVE NO. CS-6 STA. 16+98.32 (116.00' LT.) ℄ CHARLES ST.	4,571.31	140.09
P.C. CURVE NO. CS-5 STA. 17+22.32 (116.00' LT.) ℄ CHARLES ST.	4,547.36	138.56
P.I. CURVE NO. CS-5	4,544.82	178.48
P.T. CURVE NO. CS-5 STA. 17+62.32 (76.00') ℄ CHARLES ST.	4,505.90	175.94
P.I. STA. 14+23.87 ℄ CONST. CHARLES ST. = STA. 12+45.84 ℄ CONWAY STREET WEST BOUND	4,837.84	273.30

CURVE DATA

CURVE NO.	Δ	Dc	R	T	L	E
CHARLES STREET AND CHARLES STREET SERVICE DRIVE						
CS-1	53°-07'-48.4"	143°-14'-22.0"	40.00'	20.00'	37.09'	4.72'
CS-2	126°-52'-11.6"	381°-58'-18.6"	15.00'	30.00'	33.21'	18.54'
CS-3	53°-07'-48.4"	143°-14'-22.0"	40.00'	20.00'	37.09'	4.72
CS-4	126°-52'-11.6"	381°-53'-18.7"	15.00'	30.00'	33.21'	18.54'
CS-5	90°-00'-00"	143°-14'-22.0"	40.00'	40.00'	62.83'	16.57'
CS-6	90°-00'-00"	143°-14'-22.0"	40.00'	40.00'	62.83'	16.57'

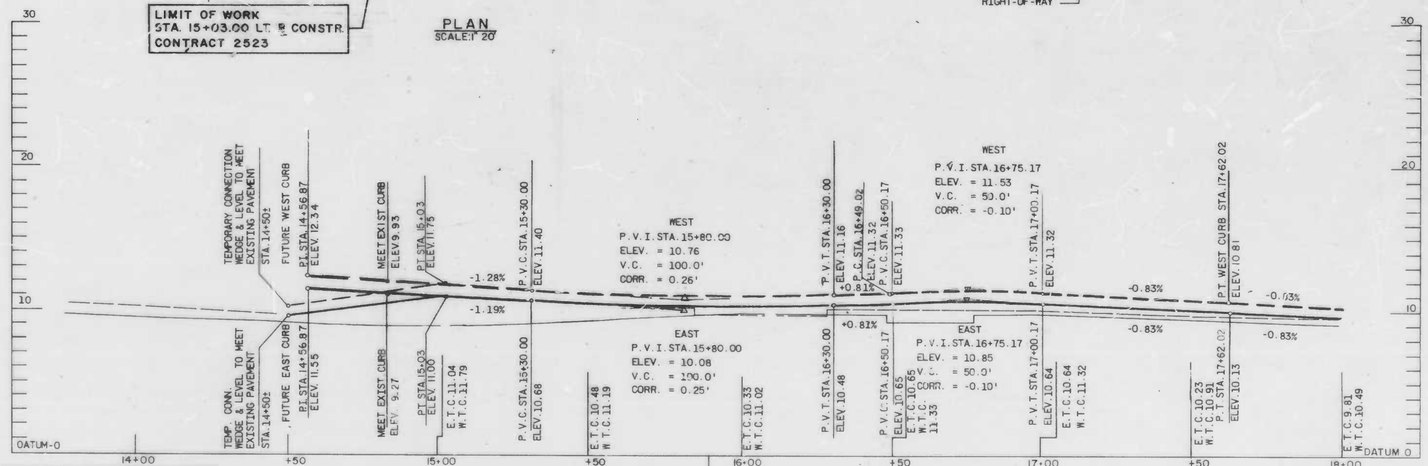
(SD-1) CONSTRUCT INLET I-1.
(SD-2) CONSTRUCT INLET I-2. CORBEL FRONT FACE TO MISS DUCT BANK
(SD-3) CONSTRUCT MANHOLE M-1. STANDARD STORM MANHOLE. STANDARD MANHOLE CHANNEL NO. 2
(SD-4) CONSTRUCT 15 IN. R.C.P. CLASS 3 INLET CONNECTION.
(SD-10) CONSTRUCT MANHOLE M-3. STANDARD STORM MANHOLE, STANDARD MANHOLE CHANNEL NO. 2.
(SD-11) REMOVE EXISTING INLET AND PLUG EXISTING PIPE WITH BRICK MASONRY.
(W-1) REMOVE EXISTING FIRE HYDRANT AND CONSTR. NEW FIRE HYDRANT IN ACCORDANCE WITH B.C. 835.01.
(P-1) CONSTRUCT PAVING SECTION 'C' SEE SHEET NO. 3 FOR DETAILS.
(R-2) CONSTRUCT CURB TYPE 'A', SEE SHEET NO. 3 FOR DETAILS.
(R-3) CONSTRUCT CURB TYPE 'B', SEE SHEET NO. 3 FOR DETAILS.
(R-4) CONSTRUCT PAVING SECTION 'B', SEE SHEET NO. 3 FOR DETAILS.
(R-5) CONSTRUCT PAVING SECTION 'A', SEE SHEET NO. 3 FOR DETAILS.
(R-6) CONST. 20 L.F. 6" PERFORATED CIRCULAR PIPE UNDERDRAIN SEE SHEET NO. 2 FOR DETAILS.
(R-7) DEPRESS CURB FOR FUTURE PEDESTRIAN RAMP.
STA. 16+82.00 (83.76' LT.) ℄ CHARLES STREET
STA. 17+34.64 (83.76' LT.) ℄ CHARLES STREET.
(R-8) IF RAILROAD TRACKS ARE FOUND TO EXIST THEY SHALL BE REMOVED AS "SPECIAL EXCAVATION - RAILWAY AREA".
(R-16) CONSTRUCT TEMPORARY ROADWAY FOR MAINTENANCE OF TRAFFIC. SEE SHEET NO. 8 FOR LOCATION USE PAVING SECTION 'B'. SEE SHEET NO. 3 FOR DETAILS.
(R-17) CONSTRUCT WEDGE AND LEVELLING COURSE. MEET EXIST. GRADE
(R-18) RADIUS OF TEMP. CURB RETURN TO BE ADJUSTED IF AND AS DIRECTED BY THE ENGINEER TO AVOID CONFLICT WITH EXISTING TELEPHONE MANHOLE.
(G-1) 24" STEAM MAIN TO REMAIN. BG&E WILL EXTEND STEAM SERVICE FROM MAIN TO BEHIND WEST CURB OF SERVICE DRIVE. FUTURE SERVICE FOR CONVENTION CENTER TO BE INSTALLED S.E. CORNER OF BUILDING CONTRACTOR TO COORDINATE WITH BG&E BEFORE BEGINNING CONSTRUCTION.

NOTE: ALL WORK SHOWN ON THE PLANS, BACK OF THE LIMIT OF WORK INCLUDING DRAINAGE, AND TEMPORARY PAVEMENT, IN CONWAY ST. SHALL BE INCLUDED IN THIS HIGHWAY CONTRACT 2523.



PLAN
SCALE: 1" 20'

NOTE: FOR JOINT LAYOUT AND ELEVATIONS, CHARLES STREET/CHARLES STREET SERVICE DRIVE AT PERRY ST. SEE SHEET NO. 8.



PROFILE-CHARLES STREET
SCALE: HORIZ. 1" = 20' VERT. 1" = 4'

DRAINAGE STRUCTURE SCHEDULE

NO.	TYPE	ST'D. PLATE	LOCATION	TOP ELEV.	REMARKS
I-1	ST'D TYPE 'S' COMB. O.G.T	379.51	STA. 15+90.20 (76.00' LT.) CHARLES ST.	10.69	LOCATE EXIST. 18" S.D. FIRST
I-2	STANDARD TYPE 'H' INLET	376.53	STA. 15+89.50 (19.00' RT.) CHARLES ST.	10.34	LOCATE EXIST. 15" S.D. FIRST.
MH-1	STANDARD STORM MANHOLE	383.01	STA. 14+84.00 (70.00' LT.) CHARLES ST.	11.3±	
MH-3	STANDARD STORM MANHOLE	383.01	STA. 15+72.50 (11.50' RT.) CHARLES ST.	10.14	

COORDINATES

DESCRIPTION	SOUTH	EAST
15+05.38 CHARLES ST.	4,756.49	E 268.12
16+83.77 CHARLES ST. 0+00 PERRY ST.	4,578.46	E 256.78

REVISIONS NO.	DESCRIPTION	DATE	BY

PREPARED BY
EWELL, BOMHARDT & ASSOC.
Consulting Engineers
BALTIMORE, MARYLAND

CITY OF BALTIMORE
DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT
CHARLES CENTER-INNER HARBOR MANAGEMENT, INC.

INNER HARBOR WEST
STREET CONTRACT NO. 4
RECONSTRUCTION OF CHARLES STREET
FROM CONWAY STREET TO PRATT STREET
CHARLES STREET SERVICE DRIVE
FROM CONWAY STREET TO PERRY STREET

PLAN & PROFILE STA. 13+60 TO STA. 18+00

HWY.
SCALE: HORIZ. 1" = 20' VERT. 1" = 4' CONT. 2523 DATE: JUNE 1978
DESIGNED: SWP DRAWN: B.E.R. CHKD: SWP SHEET 4 OF 14

K&E BALTIMORE 18 1293 HERCULENE MC 0025x

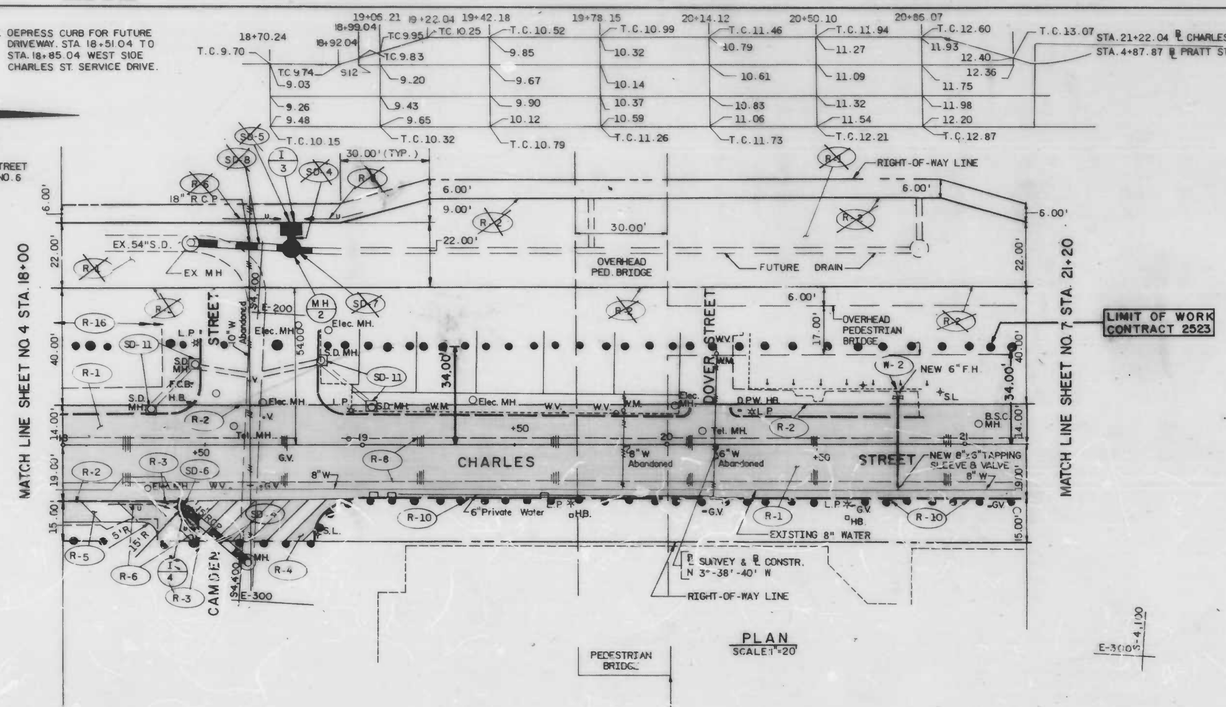
FILE REF.

RATIO - 24

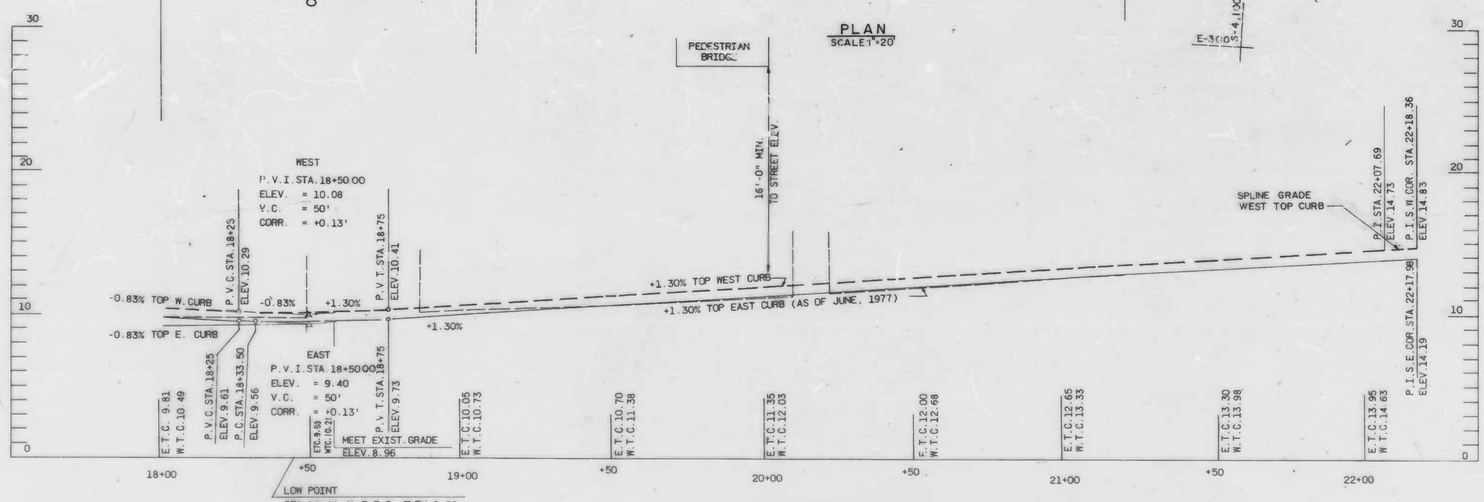
FILE REF.

NOTE. DEPRESS CURB FOR FUTURE DRIVEWAY. STA 18+51.04 TO STA. 18+85.04 WEST SIDE CHARLES ST. SERVICE DRIVE.

FOR PROFILE OF CHARLES STREET SERVICE DRIVE SEE SHEET NO. 6



PLAN
SCALE 1"=20'



PROFILE - CHARLES STREET
SCALE. HORIZ. 1"=20' VERT. 1"=4'

REVISIONS			
NO.	DESCRIPTION	DATE	BY

(SD-4) CONSTRUCT 15 IN. R.C.P. CLASS 3 INLET CONNECTION
(SD-5) CONSTRUCT INLET I-3.
(SD-6) CONSTRUCT INLET I-4.
(SD-7) CONSTRUCT MANHOLE M-2. STANDARD STORM MANHOLE STANDARD MANHOLE CHANNEL NO. 2. INSTALL 18" R.C.P. STUB (NORTH)
(SD-8) CONSTRUCT 18 IN. R.C.P. CLASS 4 STORM DRAIN.
(SD-11) REMOVE EXISTING INLET AND PLUG EXISTING PIPE WITH BRICK MASONRY.
(W-2) CONST. 6" DUCTILE IRON PIPE AND FITTINGS AND PLACE 6" FIRE HYDRANT IN ACCORDANCE WITH B.C.835.01.
(R-1) CONSTRUCT PAVING SECTION 'C' SEE SHEET NO. 3 FOR DETAILS.
(R-2) CONSTRUCT CURB TYPE 'A'. SEE SHEET NO. 3 FOR DETAILS.
(R-3) CONSTRUCT CURBTYPE 'B'. SEE SHEET NO. 3 FOR DETAILS.
(R-4) CONSTRUCT PAVING SECTION 'B'. SEE SHEET NO. 3 FOR DETAILS.
(R-5) CONSTRUCT PAVING SECTION 'A'. SEE SHEET NO. 3 FOR DETAILS.
(R-6) CONSTRUCT 20 L.F. PERFORATED CIRCULAR PIPE UNDERDRAIN. SEE SHEET NO. 2 FOR DETAILS.
(R-8) IF RAILROAD TRACKS ARE FOUND TO EXIST THEY SHALL BE REMOVED AS "SPECIAL EXCAVATION-RAILWAY AREA".
(R-9) DEPRESS CURB FOR FUTURE DRIVEWAY. STA. 18+51.04 TO STA. 18+85.04 WEST SIDE CHARLES STREET SERVICE DRIVE.
(R-10) PAVE TO FRONT FACE OF GUTTER PAN. STA. 18+97 TO STA. 21+20 EAST SIDE OF CHARLES STREET.
(R-16) CONST. TEMPORARY DETOUR ROAD FOR MAINTENANCE OF TRAFFIC - SEE SHEET NO. 8. USE PAVEMENT SECTION B SHEET NO. 3.

JOINT LAYOUT DATA
(APPLIES TO BASE COURSE ONLY)

TRANSVERSE JOINTS CHARLES STREET SERVICE DRIVE

15+08.00	19+06.21
15+50.39	19+42.18
16+35.17	19+78.15
16+79.02	20+14.12
17+19.95	20+50.10
17+62.32	20+86.07
17+98.29	21+22.04
18+34.26	21+48.39
18+70.24	21+75.25

TRANSVERSE JOINTS CHARLES STREET

15+03.00	19+07.41
15+46.17	19+43.75
15+89.34	19+80.10
16+32.51	20+16.45
16+74.02	20+52.79
17+18.85	20+89.14
17+62.02	21+25.49
17+98.37	21+61.83
18+34.71	21+98.18
18+71.06	

DRAINAGE STRUCTURE SCHEDULE

NO.	TYPE	ST'D PLATE	LOCATION	TOP ELEV.	REMARKS
I-3	ST'D TYPE S COMBINATION INLET, DOUBLE GRATE TANDEM	379.51	STA. 18+76.70 (76.0' LT.) CHARLES STREET	9.18	
I-4	ST'D TYPE S INLET SINGLE GRATE	379.51	STA. 18+40.0 (22.0' RT.) CHARLES STREET	8.81	
MH-2	ST'D STORM MANHOLE	383.01	STA. 18+76.7 (68.0 LT.) CHARLES STREET	9.34	

PREPARED BY
EWELL, BOMHARDT & ASSOC.
Consulting Engineers
BALTIMORE, MARYLAND

CITY OF BALTIMORE
DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT
CHARLES CENTER-INNER HARBOR MANAGEMENT, INC.
INNER HARBOR WEST
STREET CONTRACT NO. 4
RECONSTRUCTION OF CHARLES STREET
FROM CONWAY STREET TO PRATT STREET
CHARLES STREET SERVICE DRIVE
FROM CONWAY STREET TO PRATT STREET
PLAN STA. 18+00 TO STA. 21+20
PROFILE STA. 18+00 TO STA. 22+18.36

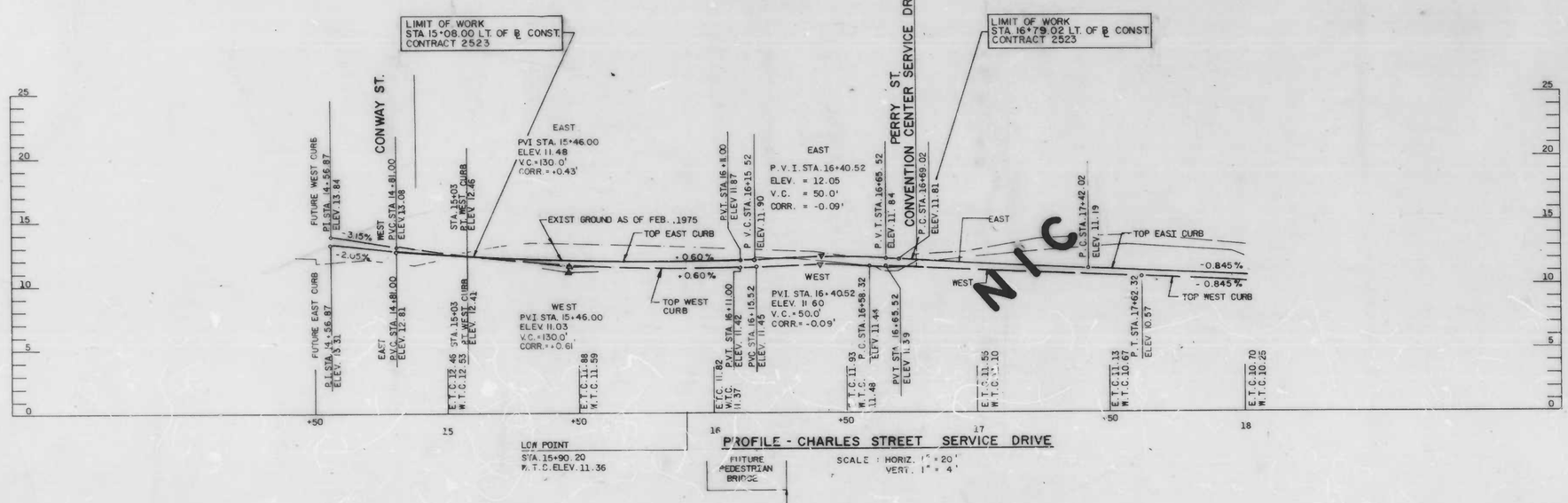
SCALE: HORIZ. 1"=20' VERT. 1"=4' HWY. CONT. 2523 DATE: JUNE, 1978
DESIGNED S.W.P. DRAWN B.R. CHKD S.W.P. SHEET 5 OF 14

FILE REF.

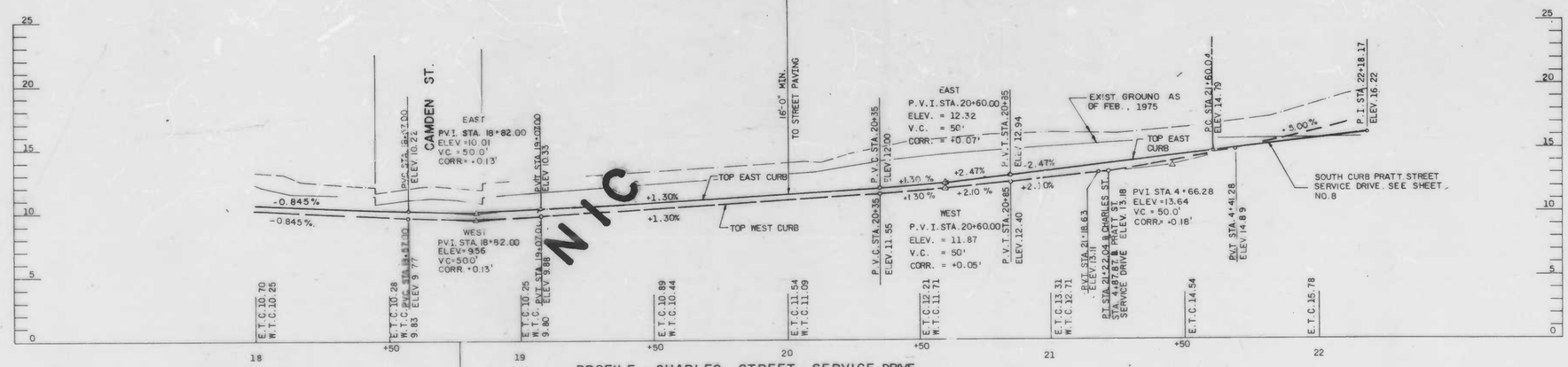
RATIO - 24

FILE REF.

REVISIONS			
NO.	DESCRIPTION	DATE	BY



PROFILE - CHARLES STREET SERVICE DRIVE



PROFILE - CHARLES STREET SERVICE DRIVE

NOTE: PROFILE GRADES FOR WEST CURB CHARLES STREET SERVICE DRIVE ARE THEORETICAL FROM STA. 18+92.04 TO STA 21+22.04. SEE JOINT LAYOUT AND GRADES ON SHEET NO. 5

PREPARED BY:
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DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT
CHARLES CENTER-INNER HARBOR MANAGEMENT INC.

INNER HARBOR WEST
STREET CONTRACT NO. 4

RECONSTRUCTION OF CHARLES STREET
FROM CONWAY STREET TO PRATT STREET
CHARLES STREET SERVICE DRIVE
FROM CONWAY STREET TO PERRY STREET

PROFILE-CHARLES ST. SERVICE DRIVE

SCALE: HORIZ. 1" = 20' VERT. 1" = 4' HIGHWAY CONT. 2523 DATE: JUNE 1978

DESIGNED SWP DRAWN B.E.R. & HKD SWP SHEET 6 OF 14

FILE REF.

RATIO - 24

FILE REF.

CURVE DATA

CURVE NO.	Δ	Dc	R	T	L	E
SOUTH CURB/℄ CONSTRUCTION-PRATT STREET SERVICE DRIVE						
SC-1	30°-00'-4.3"	95°-29'-34.6"	60.00'	16.08'	31.42'	2.12'
SC-2	30°-00'-4.3"	95°-29'-34.6"	60.00'	16.08'	31.42'	2.12'
SC-3	89°-12'-26.8"	95°-29'-34.6"	60.00'	59.18'	93.42'	24.27'
NORTH CURB - PRATT STREET SERVICE DRIVE						
NC-1	23°-41'-26.1	71°-37'-11"	80.00'	16.33'	32.22'	1.65'
NC-2	35°-38'-54.4"	69°-52'-22.4"	82.00'	26.37'	51.02'	4.13'
CHARLES STREET MEDIAN NOSE						
M-1	31°-03'-28.4"	57°-28'-24.5"	99.69'	27.70'	54.04'	3.78'
M-2	121°-50'-58.6"	00°-54'-56.6"	5.00'	8.99'	10.63'	5.29

COORDINATES

DESCRIPTION	SOUTH	EAST-WEST
116+69.37 PRATT ST.= 59+59.90 HANOVER ST.	4041.64	W 148.87
120+40.11 PRATT ST.= 22+40.17 CHARLES ST.	4023.19	E 221.41

HORIZONTAL CONTROL COORDINATION

DESCRIPTION	COORDINATES SOUTH	COORDINATES EAST
SOUTH CURB/℄ CONSTRUCTION - PRATT STREET SERVICE DRIVE		
P.C.STA.1+00.00 ℄ PRATT STREET SERVICE DRIVE	4,066.07	-197.08
P.I.CURVE NO.SC-1	4,065.27	-181.03
P.T.STA.1+31.42 ℄ PRATT STREET SERVICE DRIVE	4,072.61	-166.72
P.C.STA.1+75.26 ℄ PRATT STREET SERVICE DRIVE	4,092.61	-127.71
P.I.CURVE NO.SC-2	4,099.95	-113.40
P.T.STA.2+06.68 ℄ PRATT STREET SERVICE DRIVE	4,059.15	-97.34
P.C.STA.3+94.46 ℄ PRATT STREET SERVICE DRIVE	4,089.80	90.20
P.I.CURVE NO.SC-3	4,086.86	149.31
P.T.STA.4+87.87 ℄ PRATT STREET SERVICE DRIVE	4,145.91	153.07
NORTH CURB - PRATT STREET SERVICE DRIVE		
P.C.STA.1+67.87 (30.33'LT.) ℄ PRATT ST.SERV.DR.	4,062.25	-120.44
P.C.C.STA.1+70.98 (21.04'LT.)℄ PRATT ST.SERV.DR.	4,071.94	-121.92
P.I.CURVE NO.NC-1	4,077.58	-106.59
P.T.STA.2+14.84 (22.00'LT.)℄ PRATT ST.SERV.DR.	4,076.77	-90.28
P.C.STA.3+94.46 (22.00'LT.)℄ PRATT ST.SERV.DR.	4,067.83	89.11
P.I.CURVE NO.NC-2	4,066.52	115.45
P.R.C.STA.4+31.79 (22.00'LT.)℄ PRATT ST.SERV.DR.	4,080.80	137.61
CHARLES STREET MEDIAN NOSE		
P.C.STA.2+61.04 (54.00'LT.) ℄ CHARLES STREET	4,106.59	172.61
P.I.CURVE NO.M-1	4,078.94	170.85
P.R.C.STA.22+11.47(68.29'LT.) ℄ CHARLES STREET	4,056.17	155.08
P.I.CURVE NO.M-2	4,048.78	149.96
P.C.STA.33+19.05(63.94'LT.) ℄ CHARLES STREET	4,048.33	158.94

SD-4 CONSTRUCT 15 IN. R.C.P. CLASS 3 INLET CONNECTION.

SD-9 CONSTRUCT INLET I-5

W-3 PLACE, PLUG, AND MARK ENDS, 3" P.V.C. CONDUIT. SEE SHEET NO.2 FOR DETAILS.

W-4 PLACE, PLUG, AND MARK ENDS, 4" P.V.C. CONDUIT. SEE SHEET NO.2 FOR DETAILS.

W-5 NEW 2 IN. COPPER TYPE 'K' WATER SERVICE WITH 1 1/2" METER IN ACCORDANCE WITH STANDARD B.C. 840.06 BACKFLOW PREVENTER TO BE INSTALLED BY MEDIAN LANDSCAPE CONTRACTOR.

R-1 CONSTRUCT PAVING SECTION 'C'. SEE SHEET NO.3 FOR DETAILS

R-2 CONSTRUCT CURB TYPE 'A'. SEE SHEET NO.3 FOR DETAILS.

R-5 CONSTRUCT PAVING SECTION 'A'. SEE SHEET NO.3 FOR DETAILS.

R-6 CONSTRUCT 20 L.F. PERFORATED CIRCULAR PIPE UNDERDRAIN. SEE SHEET NO.2 FOR DETAILS.

R-7 DEPRESS CURB FOR FUTURE PEDESTRIAN RAMP. STA.4+28(LT.) ℄ PRATT STREET SERVICE DRIVE.

R-8 IF RAILROAD TRACKS ARE FOUND TO EXIST THEY SHALL BE REMOVED AS "SPECIAL EXCAVATION - RAILWAY AREA".

R-10 PAVE TO FRONT FACE OF GUTTER PAN STA.18+97 TO STA.21+20 EAST SIDE OF CHARLES STREET. SEE SHEET NO.3 FOR DETAILS.

R-11 REMOVE BITUMINOUS CURB AND SIDEWALK STA.1+00 TO STA.1+64 (LT.) ℄ PRATT STREET SERVICE DRIVE.

R-12 CONSTRUCT PEDESTRIAN RAMP IN PAVING SECTION 'A', STA.22+10(LT.) ℄ CHARLES STREET.

R-13 CONSTRUCT PEDESTRIAN RAMP IN PAVING SECTION 'A' AND IN NEW STANDARD TYPE 'A' COMBINATION CURB AND GUTTER (12"x9"). STA.22+15(LT.) ℄ CHARLES STREET.

R-16 CONST. TEMPORARY DETOUR ROAD FOR MAINTENANCE OF TRAFFIC - SEE SHEET NO.8. USE PAVEMENT SECTION B SHEET NO.3.

R-14 CONSTRUCT STANDARD TYPE 'A' COMBINATION CURB AND GUTTER (12"x9") TO STA.21+98.18

R-15 REMOVE OBSTRUCTIONS TO TEMPORARY ROADWAY.

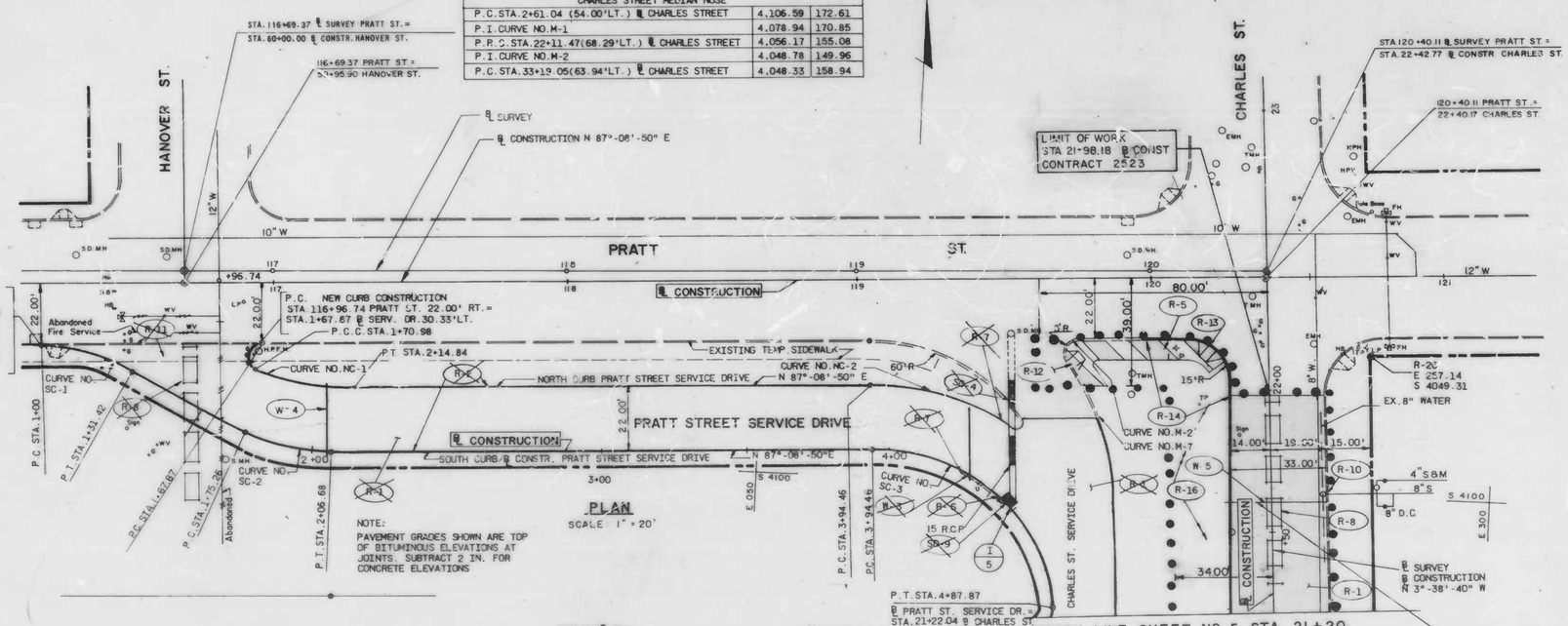
REVISIONS

NO.	DESCRIPTION	DATE	BY

JOINT LAYOUT DATA
(APPLIES TO BASE COURSE ONLY)

TRANSVERSE JOINTS PRATT ST. SERVICE DRIVE

STA.1+11.33
STA.1+46.50
STA.1+75.26
STA.2+06.68
STA.2+44.24
STA.2+81.79
STA.3+19.35
STA.3+56.90
STA.3+94.46
STA.4+31.79
STA.4+58.38
STA.4+87.87



NOTE:
PAVEMENT GRADES SHOWN ARE TOP OF BITUMINOUS ELEVATIONS AT JOINTS. SUBTRACT 2 IN. FOR CONCRETE ELEVATIONS

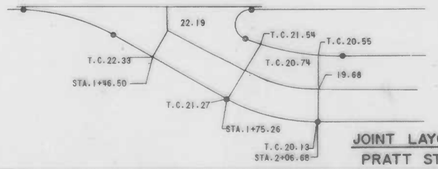
PLAN
SCALE 1" = 20'

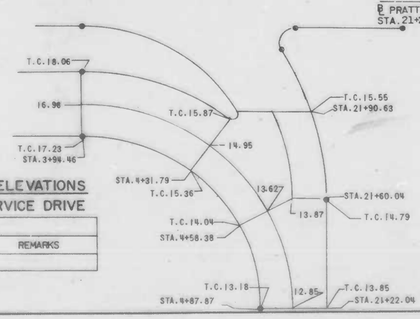
FOR PROFILE OF PRATT ST.SERVICE DR. SEE SHEET NO.8

FOR PROFILE OF CHARLES ST.SERVICE DR. SEE SHEET NO.6.

FOR PROFILE OF CHARLES ST. SEE SHEET NO. 4 & NO.5

APPLICATION FOR NEW WATER SUPPLY SERVICE SHALL BE MADE TO CUSTOMER ACCOUNTS DIVISION, BUREAU OF CONSUMER SERVICES ASHBURTON FILTRATION PLANT 3001 DRUID PARK DRIVE, AS REQUIRED





JOINT LAYOUT AND ELEVATIONS
PRATT STREET SERVICE DRIVE

DRAINAGE TRUCTURE SCHEDULE

NO	TYPE	ST'D PLATE	LOCATION	TOP ELEV	REMARKS
I-5	ST'D TYPE 'S' INLET SINGLE GRATE	379.01	STA. 4+43.1 ℄ PRATT ST.SERVICE DR.	14.03	

PREPARED BY
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Consulting Engineers
BALTIMORE, MARYLAND

CITY OF BALTIMORE
DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT
CHARLES CENTER-INNER HARBOR MANAGEMENT, INC.
INNER HARBOR WEST
STREET CONTRACT NO.4
RECONSTRUCTION OF CHARLES STREET
FROM CONWAY STREET TO PRATT STREET
CHARLES STREET SERVICE DRIVE
FROM CONWAY STREET TO PERRY STREET
PLAN STA. 21+20 TO STA. 23+00

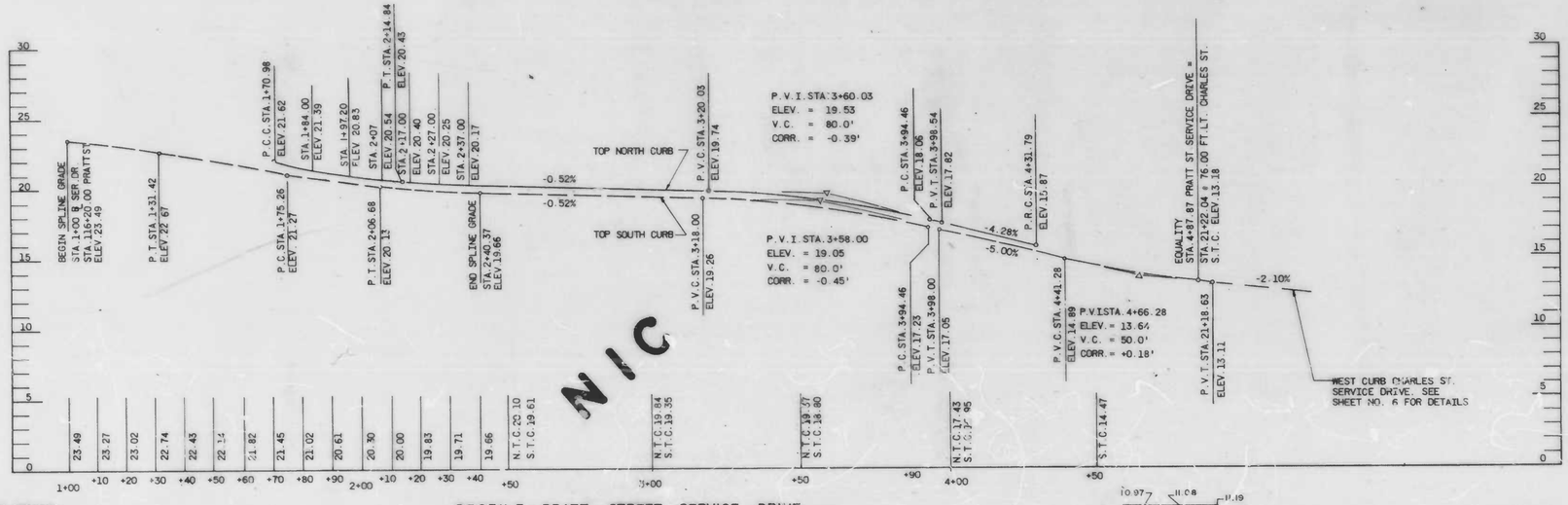
SCALE HORIZ 1"=20' HIGHWAY CONT. 2523 DATE JUNE, 1978
DESIGNED S.W.P. DRAWN B.E.R. CHKD S.W.P. SHEET 7 OF 14

FILE REF.

RATIO - 24

FILE REF.

REVISIONS			
NO.	DESCRIPTION	DATE	BY

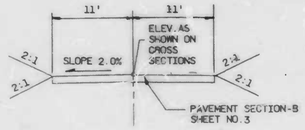


PROFILE - PRATT STREET SERVICE DRIVE

SCALE HORIZ. 1" = 20'
VERT. 1" = 4'

MAINTENANCE OF TRAFFIC SEQUENCE

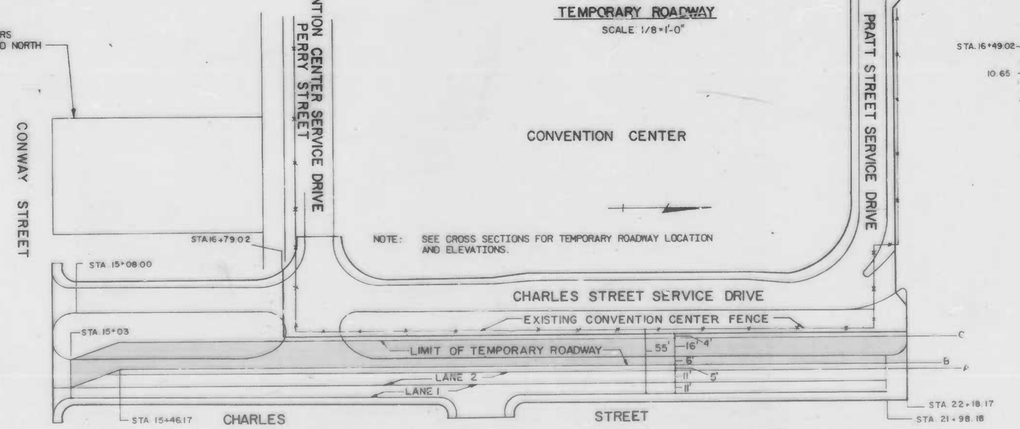
1. CONFINE TRAFFIC TO LANES 1 AND 2.
2. REMOVE ALL OBSTACLES AND EXISTING CURB AND GUTTER BETWEEN LINES B AND C.
3. CONSTRUCT TEMPORARY ROADWAY BETWEEN LINES B AND C FROM STA. 15+03 TO STA. 22+18.17 CONSTRUCT TEMPORARY ROADWAY BY GRADING TO A SMOOTH PROFILE AND PLACING PAVING SECTION B AS SHOWN ON SHEET NO. 3.
4. TRANSFER TRAFFIC TO TEMPORARY ROADWAY AND CONSTRUCT LANES 1 AND 2, FROM STA. 15+46.17 TO STA. 21+98.18 CHARLES STREET SERVICE DRIVE FROM STA. 14+88 TO STA. 16+79.02, AND UTILITIES WHERE POSSIBLE.
5. BUILD LANE 1 FROM STA. 14+88 TO STA. 15+46.17 AND SPLIT TRAFFIC, ONE LANE ON TEMPORARY ROADWAY AND ONE LANE ON LANE 1. BUILD LANE 2 FROM STA. 14+88 TO STA. 15+46.17.
6. PUT TRAFFIC ON LANES 1 AND 2 AND BUILD REMAINING LANE OF CHARLES STREET AND UTILITIES.



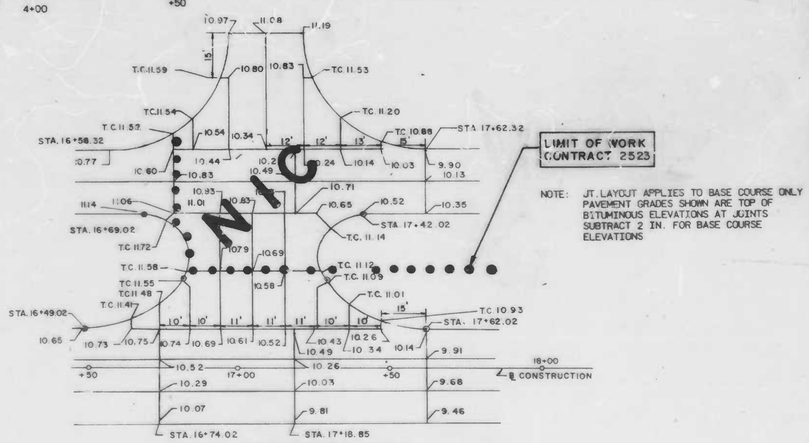
TYPICAL SECTION TEMPORARY ROADWAY

SCALE 1/8"=1'-0"

NOTE: APPROXIMATE AREA FOR CONTRACTORS USE ACCESS TO BE FROM SOUTH AND NORTH



NOTE: SEE CROSS SECTIONS FOR TEMPORARY ROADWAY LOCATION AND ELEVATIONS.



NOTE: JT. LAYOUT APPLIES TO BASE COURSE ONLY PAVEMENT GRADES SHOWN ARE TOP OF BITUMINOUS ELEVATIONS AT JOINTS SUBTRACT 2 IN. FOR BASE COURSE ELEVATIONS

JOINT LAYOUT AND ELEVATIONS
CHARLES ST/CHARLES ST SERVICE DRIVE AT PERRY ST.- CONVENTION CENTER SERVICE DRIVE

SCALE: 1" = 20'

PREPARED BY
EWELL, BOMHARDT & ASSOC.
Consulting Engineers
BALTIMORE, MARYLAND

CITY OF BALTIMORE
DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT
CHARLES CENTER INNER HARBOR MANAGEMENT INC.

INNER HARBOR WEST
STREET CONTRACT NO. 4
RECONSTRUCTION OF CHARLES STREET
FROM CONWAY STREET TO PRATT STREET
CHARLES STREET SERVICE DRIVE
FROM CONWAY STREET TO PERRY STREET

DETAILS & PROFILE PRATT ST. SERVICE DRIVE

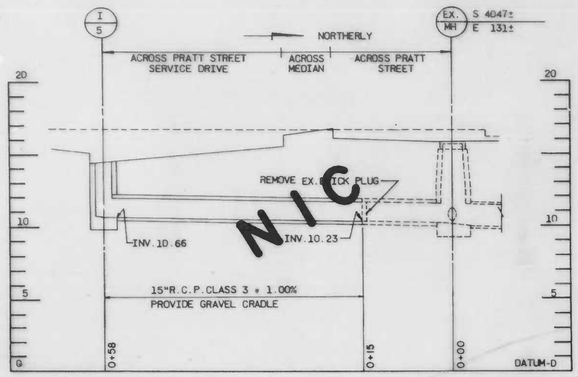
SCALE: AS NOTED HWY. CONT. 2523 DATE: JUNE, 1978
DESIGNED: SWP DRAWN: CHKD: SWP SHEET 8 OF 14

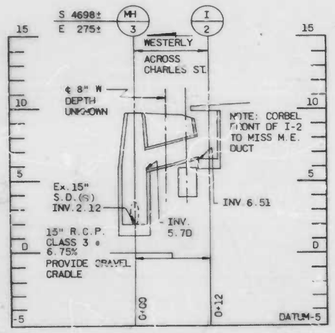
FILE REF.

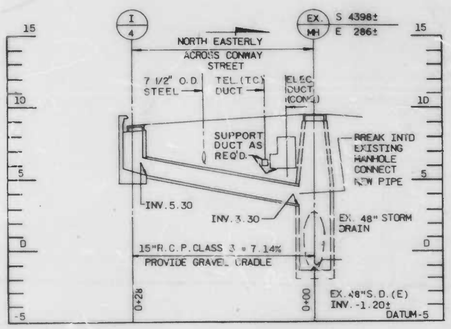
RATIO - 24

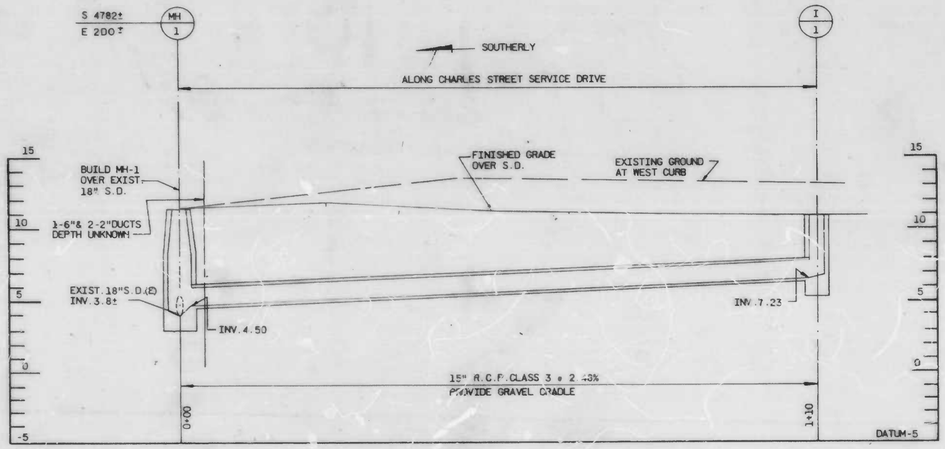
FILE REF.

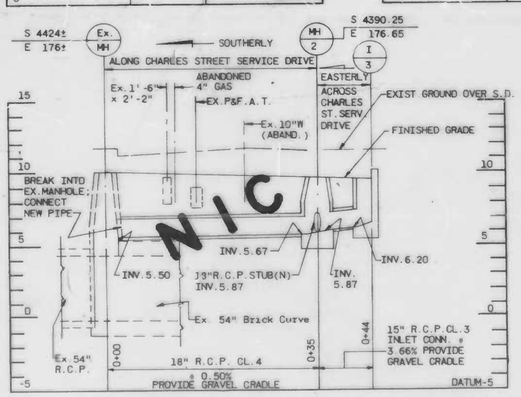
REVISIONS			
NO.	DESCRIPTION	DATE	BY

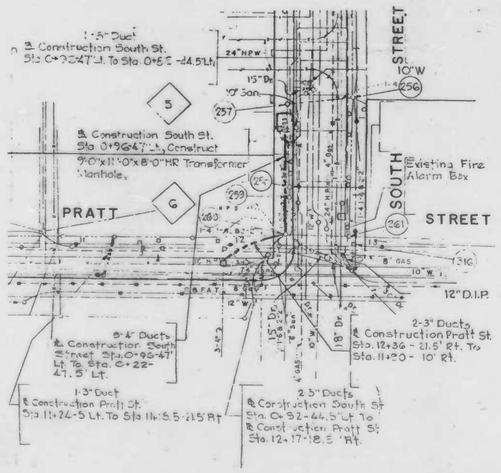






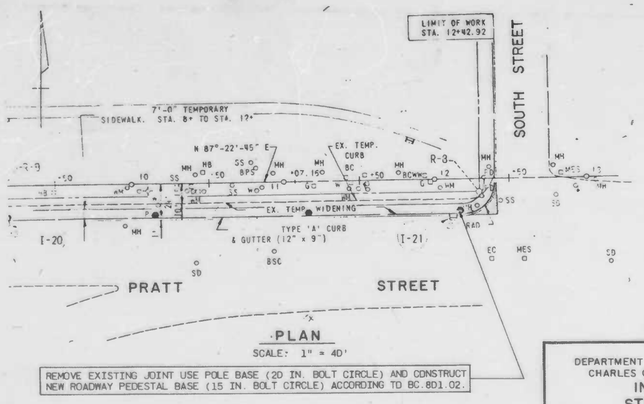






UTILITY PLAN

SCALE: 1" = 40'



PLAN

SCALE: 1" = 40'

REMOVE EXISTING JOINT USE POLE BASE (20 IN. BOLT CIRCLE) AND CONSTRUCT NEW ROADWAY PEDESTAL BASE (15 IN. BOLT CIRCLE) ACCORDING TO BC.8D1.02.

STATE OF MARYLAND — JAMES R. WELL — REGISTERED PROFESSIONAL ENGINEER

PREPARED BY:

EWELL, BOMHARDT & ASSOC.

Consulting Engineers

BALTIMORE, MARYLAND

CITY OF BALTIMORE
DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT
CHARLES CENTER-INNER HARBOR MANAGEMENT, INC.

INNER HARBOR WEST
STREET CONTRACT NO. 4
RECONSTRUCTION OF CHARLES STREET
FROM CONWAY STREET TO PRATT STREET
CHARLES STREET SERVICE DRIVE
FROM CONWAY STREET TO PERRY STREET

DRAINAGE PROFILES AND DETAILS

SCALE: HORIZ. 1" = 10', VERT. 1" = 4' HWY CONT. 2523 DATE: JUNE, 1978

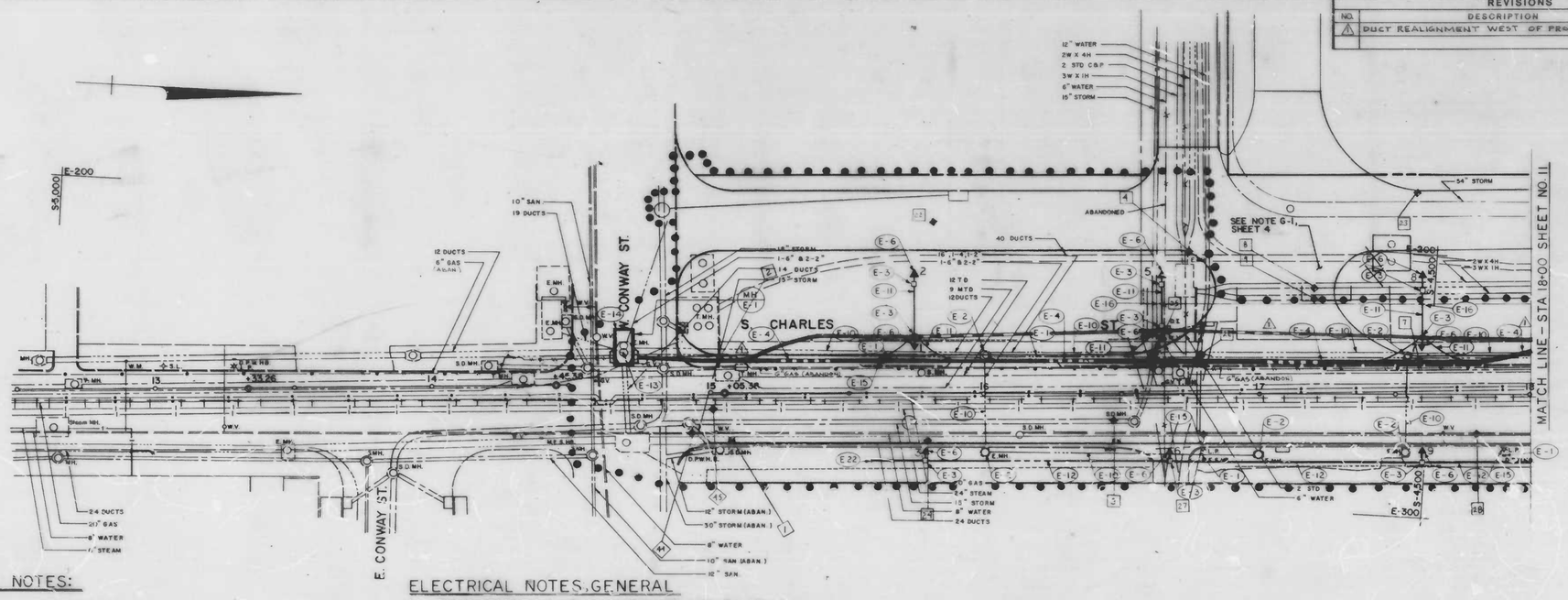
DESIGNED: SWP DRAWN: R.C.C. CHKD: SWP SHEET 9 OF 14

FILE REF.

RATIO - 24

FILE REF.

REVISIONS			
NO.	DESCRIPTION	DATE	BY
1	DUCT REALIGNMENT WEST OF PROP. LINE	10-10-78	T.W.A. INC.



ELECTRICAL NOTES:

(E-1) ABANDON CONDUIT HANDBOX.

(E-2) ABANDON CONDUIT MANHOLE (WHEN DIRECTED BY THE B.G.&E. CO.)

(E-3) INSTALL HANDBOX - CONDUIT (B.C. 804.01 THRU B.C. 804.08.)

(E-4) CONSTRUCT TYPE "K-P" MODIFIED DUCT SECTION, 8-5 IN & 3 IN., I.D. DUCT (P.V.C.)

(E-5) CONSTRUCT PRECAST LINE MANHOLE 6'x12'x9' HEADROOM WITH FIELD POURED RECESSED EXTENSION, NORTH & SOUTH WALLS. SEE (B.C. 825.06)

(E-6) CONSTRUCT ROADWAY PEDESTAL BASE TYPE 1 (FOR STREET LIGHTING ONLY.)

(E-7) REMOVE DUCT SECTION, ANY SIZE.

(E-8) CONNECT NEW MODIFIED DUCT INTO EXISTING MANHOLE AT STA. 21+52', PLUG EXISTING 10-4 IN. I.D. DUCTS IN SOUTH WALL.

(E-9) EXTEND & CONNECT EXISTING DUCTS INTO NEW MANHOLE.

(E-10) ABANDON DUCT SECTION, ANY SIZE.

(E-11) BUILD TYPE "Y" DUCT SECTION, 1-3 IN. I.D. DUCT (BC 824.04.)

(E-12) BUILD TYPE "P" DUCT SECTION 3-4 IN. I.D. DUCTS (BC 824.05.)

(E-13) REMOVE EXISTING CONDUIT MANHOLE, WHEN DIRECTED BY THE B.G.&E. CO. THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE FACT THAT THIS MANHOLE IS BEING ENLARGED (SEE NOTE "14") & EXIST. NO B.G.&E. CO. EQUIPMENT, DUCTS, CABLES, ETC. SHALL BE MAINTAINED IN SERVICE THRU THE DURATION OF THIS ENLARGEMENT & THE CONSTRUCTION.

(E-14) ENLARGE EXISTING CONDUIT MANHOLE TO TYPE "G" MANHOLE - MECH. ELECT. 6'x12'x9' HEADROOM (B.C. 825.07) WITH FIELD POURED RECESSED EXTENSION, NORTH WALL - SOUTH WALL FOR FUTURE DUCT.

(E-15) REMOVE ROADWAY PEDESTAL. THE CONTRACTOR SHALL MAINTAIN EXISTING LIGHTING SYSTEMS AS MUCH AS POSSIBLE DURING CONSTRUCTION & NOTIFY BUREAU OF OPER., STREET LTG. & CONDUIT ON TWO WEEKS PRIOR TO THE CONTRACTOR'S PLAN FOR REMOVAL.

(E-16) THE CONTRACTOR SHALL TERMINATE & PLUG TYPE "Y" DUCT SECTION 1-3 IN. I.D. DUCT APPROX. 20'-0" FROM FACE OF NEW WEST CURB, CHARLES ST. & STAKE SAID LOCATION FOR EXTENSION BY OTHERS.

(E-17) REMOVE FIRE BOX BASE & EXTEND TYPE "Y" DUCT SECTION 1-3 IN. I.D. DUCT TO NEW FIRE BOX LOCATION SEE SHEET "11" & TERMINATE DUCT AS DIRECTED BY FIRE DEPARTMENT.

(E-18) INTERCEPT EXISTING 3-4" I.D. DUCT SECTION AT APPROX. STA. 19+00 AND EXTEND TYPE "P" DUCT SECTION 3-4 IN. I.D. DUCTS AS SHOWN ON PLANS.

(E-19) INSTALL HANDBOX FOR TRAFFIC DEVICES.

(E-20) THE CONTRACTOR SHALL CONSTRUCT PEDESTAL BASE & HANDBOXES AFTER TEMPORARY ROADWAY IS REMOVED & FINAL MEDIAN CONSTRUCTION IS BEGUN.

ELECTRICAL NOTES, GENERAL

1. THE CONTRACTOR SHALL FULLY COORDINATE WITH B.G.&E. CO., C&P TELEPHONE CO., BUREAU OF OPERATIONS STREET LTG. & CONDUIT DIV., FIRE DEPARTMENT & ALL GOVERNMENTAL AGENCIES HAVING JURISDICTION OVER THIS PROJECT & ALL OTHER CONTRACTS BEING PERFORMED IN THIS AREA TO INSURE PROPER COMPLIANCE, METHODS & SCHEDULING AND AS DIRECTED BY THE ENGINEER.
2. WHERE CERTAIN EXISTING CONDUITS OR DUCTS ARE INDICATED TO BE EXTENDED UNDER THIS CONTRACT, OR REMAIN FOR FUTURE USE, THE CONTRACTOR SHALL DETERMINE THE RACEWAYS' CONDITION & SUITABILITY FOR USE. THE METHOD SHIPTO BE SHALL BE ACCEPTABLE TO THE CITY'S STREET LIGHTING & CONDUIT SECTION WHO SHALL BE INFORMED OF DAMAGED OR OBSTRUCTED CONDUIT.
3. THE CONTRACTOR SHALL VERIFY THE STATUS OF ALL ELECTRICAL DUCTS BEING REMOVED OR MAINTAINED AS FAR AS ELECTRIC CABLES ETC. PASSING THRU SAID DUCT WITH B.G.&E. CO.

ELECTRICAL NOTES CONT.

(E-21) CONNECT TO EXISTING 2-3" DUCT (TYPE "K") FROM PRATT STREET JOB. (SEE E-20)

(E-22) OMIT 12 IN. OF CONC. ENCASEMENT FROM ENDS OF CONDUITS & CAP FOR FUTURE EXTENSION OF DUCT.

(E-23) THE CONTRACTOR SHALL REMOVE 15" OF THE EXISTING 15" R.C. PIPE & PLUG WITH BRICK MASONRY WHEN REMOVING THE EXISTING INLET ON THE NORTH SIDE OF CAMDEN ST. (SHOWN ON SHEETS 5 & 11) BEFORE STARTING WORK ON PROPOSED MANHOLE E-2. THE CONTRACTOR SHALL VERIFY THAT THE ELECT. DUCT BEING REMOVED IS DEAD WITH B.G.&E. CO. PRIOR TO THIS WORK.

(E-24) THE B.G.&E. CO. WILL REMOVE 20 LF. OF EXISTING DUCT AT LOCATION OF NEW MH. E-2. COORDINATE WITH UTILITY BEFORE STARTING ANY CONSTRUCTION AT THIS MANHOLE.

(E-25) 5" STEEL PIPE. UNKNOWN - REMOVE & RELOCATE AT THE DIRECTION OF THE ENGINEER.

PEDESTAL LOCATION SCHEDULE		
STATION N°	LOCATION *	LP NO.
15 + 74	17.5' LT	1
	45.0' LT	2
15 + 79	22.0' RT	3
16 + 64	21.0 LT	4
	45.0' LT	5
16 + 67	22.0' RT	6
17 + 60	17.5' LT	7
	45.0 LT	8
17 + 60	22.0' RT	9
18 + 25	17.0' LT	10
	45.0' LT	11
	22.0' RT	12
18 + 95	22.0' RT	13
18 + 95	18.0' LT	14
	45.0' LT	15
19 + 70	16.5' LT	16
	45.0 LT	17
20 + 60	16.5' LT	18
	45.0' LT	19
21 + 41	16.5' LT	20
21 + 50	45.0 LT	21
22 + 17 (FUTURE)	27.0 LT ①	22

① SEE E-20 ELECTRICAL NOTES

* LOCATION IS TO CENTERLINE OF NEW PEDESTAL BASE

NEW MANHOLE LOCATION SCHEDULE		
MANHOLE N°	STATION N°	LOCATION *
MH-E-1	14 + 69	18.0 LT
MH-E-2	18 + 79	24.0' LT

* LOCATION IS TO CENTERLINE OF NEW ELECT. MANHOLE COVER

PREPARED BY
TURPIN, WACHTER ASSOC., INC.
Consulting Engineers
BALTIMORE, MARYLAND

EWELL, BOMHARDT & ASSOC.
Consulting Engineers
BALTIMORE, MARYLAND

STATE OF MARYLAND — REGISTERED PROFESSIONAL ENGINEER

CITY OF BALTIMORE
DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT
CHARLES CENTER-INNER HARBOR MANAGEMENT, INC.

INNER HARBOR WEST
STREET CONTRACT NO. 4
RECONSTRUCTION OF CHARLES STREET
FROM CONWAY STREET TO PRATT STREET
CHARLES STREET SERVICE DRIVE
FROM CONWAY STREET TO PERRY STREET

ELECTRICAL PLAN

SCALE: 1" = 20' HWY. CONT. 2523 DATE: JUNE, 1978

DESIGNED: H.W.K. DRAWN: F.Z. CHKD: H.W.K. SHEET 10 OF 14

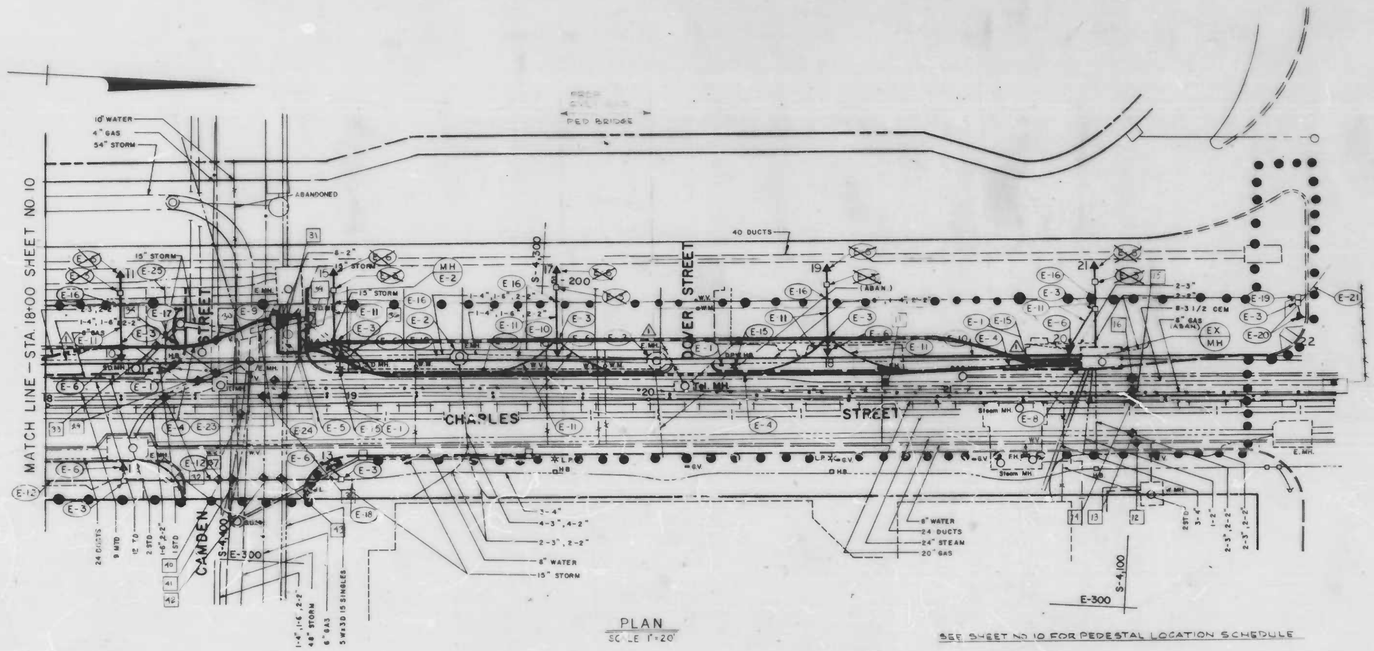
K&E BALTIMORE 19 1283 HERCULENE MC 8089

FILE REF.

RATIO - 24

FILE REF.

REVISIONS			
NO.	DESCRIPTION	DATE	BY
1	DUCT REALIGNMENT WEST OF PROP LINE	10-19-78	HWK FEZ



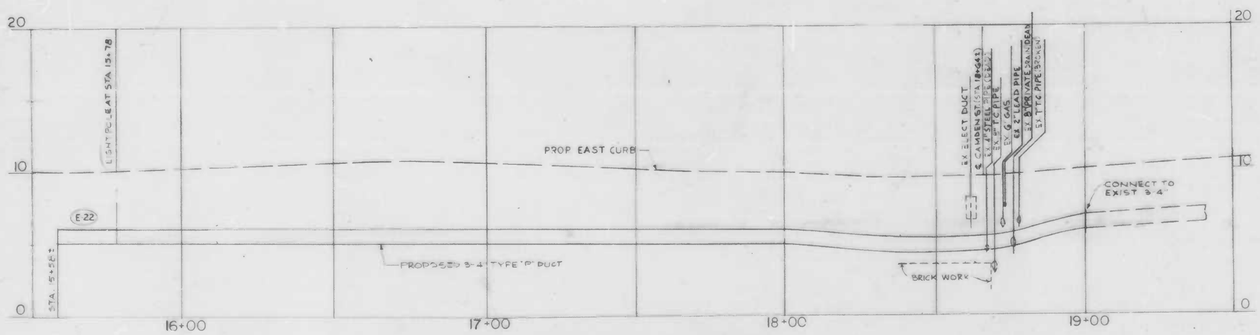
PLAN
SCALE 1"=20'

SEE SHEET NO 10 FOR PEDESTAL LOCATION SCHEDULE

TEST PIT			
T.P. NO.	STATION	OFFSET	UTILITY
10	18+60	39'RT	1-4",1-6",2-2" M.E.DUCTS
11	20+78	5.5'LT.	6" WATER
12	21+61	16.5"RT.	8" WATER
13	21+61	13.5'RT.	24 DUCT M.E.
14	21+61	0.5'RT.	20"C.I. GAS
15	21+61	0.5'LT.	C&P 2 STD. & 16 MTD.
16	21+61	7'LT.	8" SANITARY
21	21+92	187.5'LT.	GEN. CONDITION (NOT SHOWN)
29	18+36.5	20'LT.	15" STORM DRAIN
30	18+56	22'LT.	C&P DUCT
31	18+78	28'LT.	8-2" M.E.& 5W×30 M.E.
32	18+38.5	3'LT.	M.E.& C&P DUCT, & (2) GAS
33	18+50	8'LT.	M.E. & C&P DUCT
34	18+56	10.5'LT.	C&P DUCT & GAS
36	18+98.5	15.5'LT.	15" STORM
37	18+64	3'RT.	24" STEAM & (3) M.E. DUCTS
38	18+71	2.5'LT.	6" & 20" GAS LINES
39	18+78	2.5'LT.	6" & 20" GAS LINES
40	18+56	26'RT.	C&P. DUCT
41	18+61	26'RT.	M.E. DUCT, 1-4",1-6",2-2"
42	18+71	26'RT.	6" GAS
43	18+77	26'RT.	M.E.DUCT 5W×3D

TEST PIT			
1	15+07	18'RT.	2-4" DUCT M.E.
2	15+03	13.5'LT.	6" GAS
3	16+46.5	9.5'RT.	8" WATER & VALVE
4	16+73.5	54'LT.	M.E. DUCT
7	17+57	13'LT.	1-4",1-4",1-2"M.E.DUCTS
8	17+19	40'LT.	2W×4H M.E. DUCT
9	17+19	36'LT.	3W×4H M.E. DUCT
22	15+81	65'LT.	GEN. CONDITION
23	17+57	76'LT.	GEN. CONDITION
24	15+78.5	17.5'RT.	24" DUCT M.E.
25	16+61.5	13.5'LT.	15" STORM DRAIN
26	16+78	14'LT.	12" WATER
27	16+79	17'RT.	24" DUCT M.E.
28	17+79	17'RT.	24" DUCT M.E.
44	14+94	15'RT.	ELEC. CONDUIT
45	15+00	6'RT.	24" STEAM

** NOTE: SEE SHEET NO. 10 FOR TEST PITS



PROFILE ALONG EAST CURB FOR LIGHT POLES STA 15+78 TO 18+93
SCALE HORIZ 1"=20' VERT 1"=

PREPARED BY
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CITY OF BALTIMORE
DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT
CHARLES CENTER-INNER HARBOR MANAGEMENT, INC.

INNER HARBOR WEST
STREET CONTRACT NO. 4
RECONSTRUCTION OF CHARLES STREET
FROM CONWAY STREET TO PRATT STREET
CHARLES STREET SERVICE DRIVE
FROM CONWAY STREET TO PERRY STREET

ELECTRICAL PLAN AND PROFILE

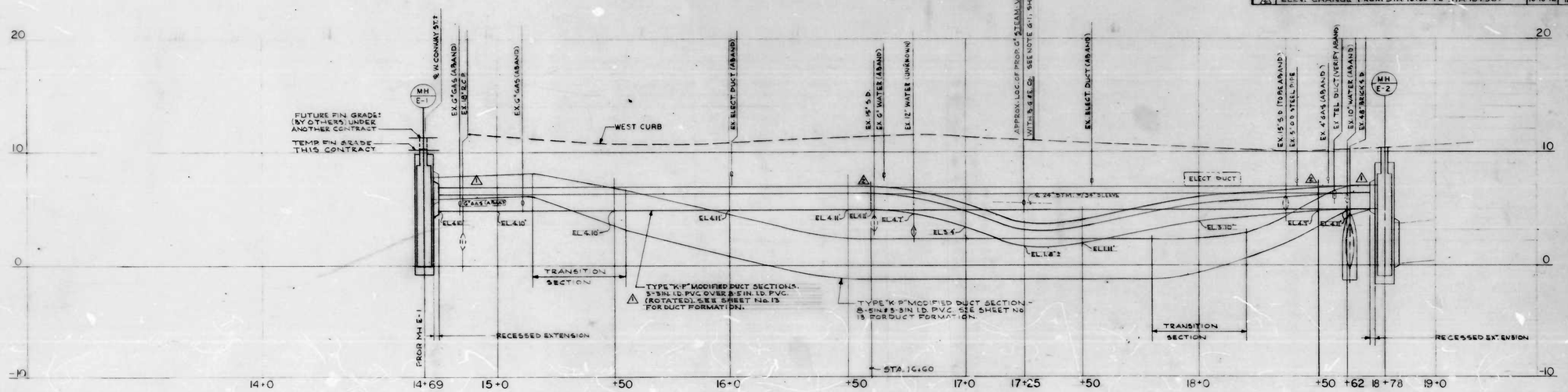
SCALE: AS NOTED HWY. CONT. 2523 DATE: JUNE, 1978
DESIGNED: HWK. DRAWN: FZ. CHKD: HWK. SHEET 11 OF 14

FILE REF.

RATIO - 24

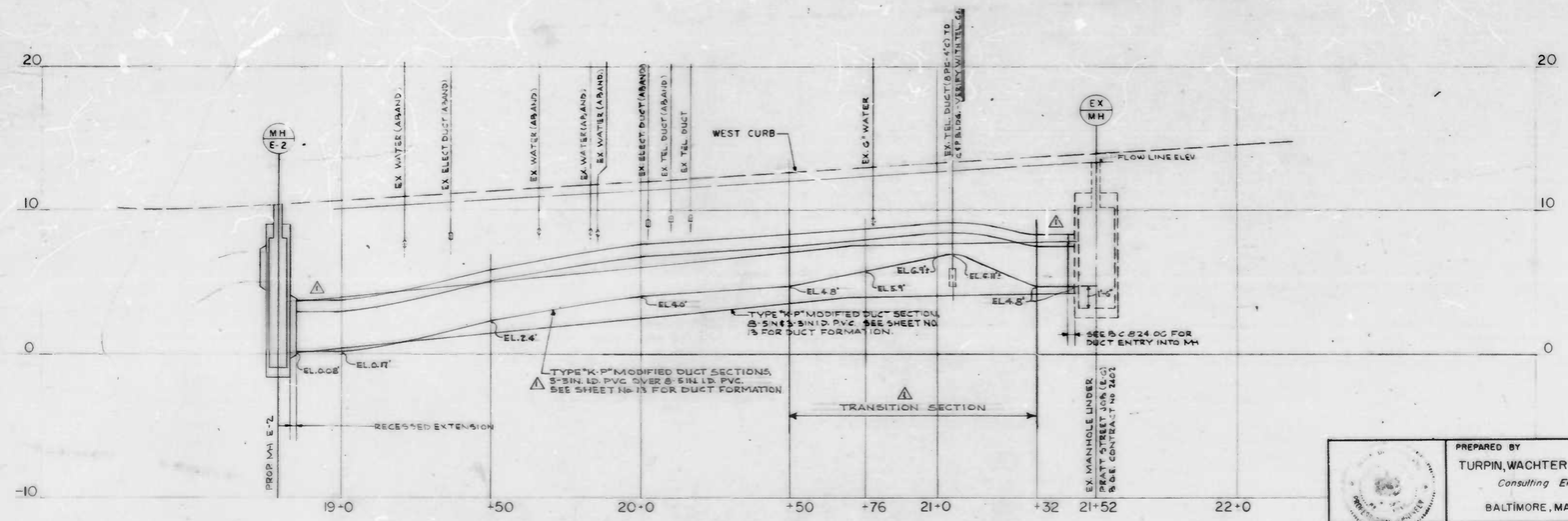
FILE REF.

REVISIONS			
NO.	DESCRIPTION	DATE	BY
1	DUCT LINE RAISED FROM MH E-1 TO EX. MH (E-2)	8-22-78	TWA INC
2	ELEV. CHANGE FROM STA. 16+60 TO STA. 18+50±	10-10-78	TWA



S. CHARLES ST. PROFILE STA. 14+69± TO STA. 21+53±

SCALE: HORIZ. 1" = 20'
VERT. 1" = 4'



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EWELL, BOMHARDT & ASSOC.
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CITY OF BALTIMORE
DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT
CHARLES CENTER-INNER HARBOR MANAGEMENT, INC.
INNER HARBOR WEST
STREET CONTRACT NO. 4

RECONSTRUCTION OF CHARLES STREET FROM CONWAY STREET TO PRATT STREET
CHARLES STREET SERVICE DRIVE FROM CONWAY STREET TO PERRY STREET

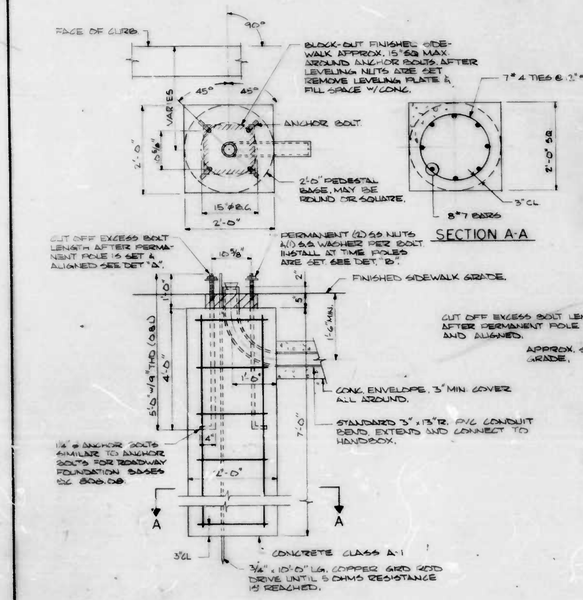
ELECTRICAL PROFILES

SCALE: HORIZ. 1" = 20' VERT. 1" = 4' HWY. CONT. 2523 DATE JUNE, 1978
DESIGNED H.W.K. DRAWN F.Z. CHKD. H.W.K. SHEET #2 OF 14

FILE REF.

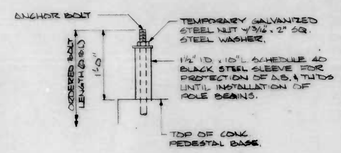
RATIO - 24

REVISIONS			
NO.	DESCRIPTION	DATE	BY
1	DUCT LINE RAISED MH E-1, EX MH (E-6)	5-23-78	T.W.A. INC.



ROADWAY PEDESTAL BASE FOR LIGHT POLES - TYPE I

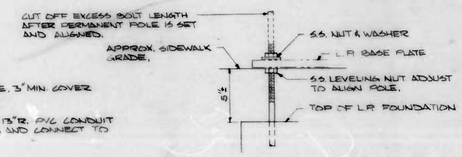
N.T.S.



DETAIL "A"

ANCHOR BOLT PROTECTION DURING CONSTRUCTION

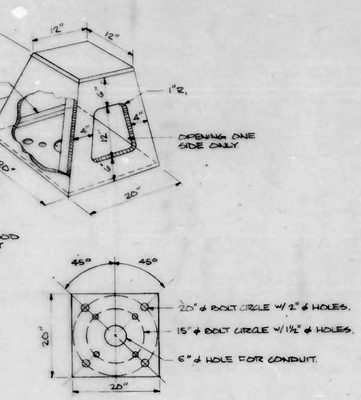
N.T.S.



DETAIL "B"

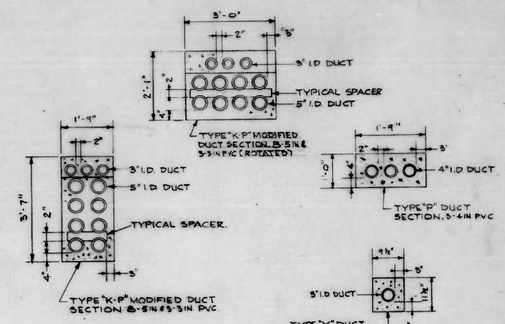
INSTALLATION OF LIGHT POLES

N.T.S.



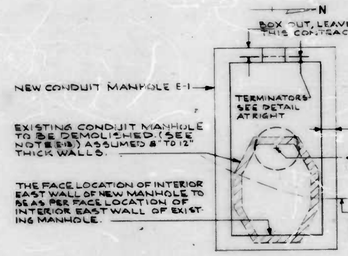
PROTECTIVE PYLON DETAIL

N.T.S.

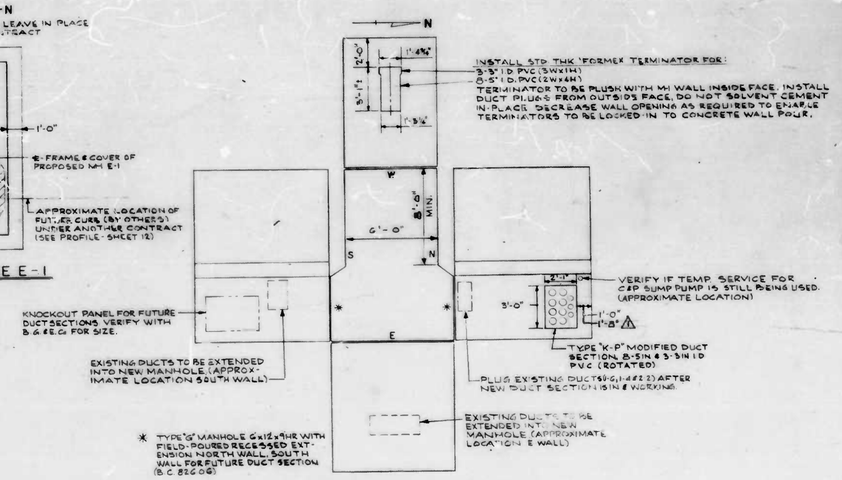


ELECTRICAL DUCT DETAILS

NTS

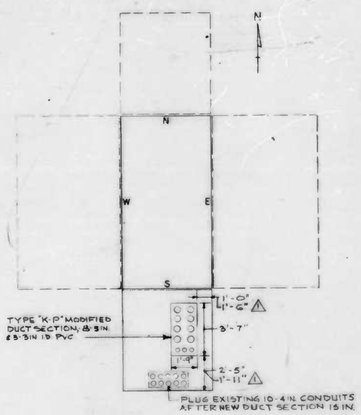


CONDUIT MANHOLE E-1



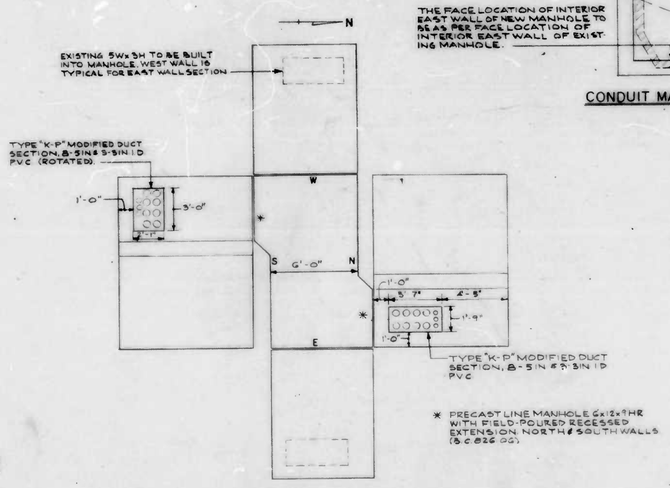
NEW MANHOLE E-1 AT CHARLES STREET AND W. CONWAY STREET

N.T.S.



EXISTING MANHOLE AT STATION 21+52

N.T.S.



NEW MANHOLE E-2 AT N.W. CORNER CHARLES STREET AT CAMDEN STREET

N.T.S.

PREPARED BY

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CITY OF BALTIMORE

DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT

CHARLES CENTER INNER HARBOR MANAGEMENT, INC.

INNER HARBOR WEST

STREET CONTRACT NO. 4

RECONSTRUCTION OF CHARLES STREET FROM CONWAY STREET TO PRATT STREET

CHARLES STREET SERVICE DRIVE FROM CONWAY STREET TO PERRY STREET

ELECTRICAL DETAILS

SCALE: AS NOTED HWY. CONT. 2523 DATE: JUNE, 1978

DESIGNED: H.W.K. DRAWN: F.Z. CHKD: H.W.K. SHEET 13 OF 14

FILE REF.

RATIO - 24

FILE REF.

EARTHWORK SUMMARY

COL. 1 STATION TO STATION (UNIT)	COL. 2 (UNIT)	COL. 3 CUT INCLUDING TOPSOIL AND ROOTMAT REMOVAL IN CUT	COL. 4 EMBANKMENT	COL. 5 TOPSOIL REMOVAL IN CUT	COL. 6 TOPSOIL REMOVAL UNDER FILL	COL. 7 ROOTMAT REMOVAL INCUT	COL. 8 ROOTMAT REMOVAL UNDER FILL	COL. 9 ADJUSTED CUT COL. 3 LESS COL. 5 COL. 7	COL. 10 SHRINKAGE OR SWELL	COL. 11 CLASS 1 EXCAVATION DENSIFIED	COL. 12 CLASS 2 ESCAVATION	REMARKS
			CU. YDS.	CU. YDS.	CU. YDS.	CU. YDS.	CU. YDS.	CU. YDS.		CU. YDS.	CU. YDS.	
CHARLES ST. & SERVICE DRIVE												
STA. 14+88 TO STA. 15+05		43	62	-	-	-	-	43	0.90	39		TEMPORARY CONNECTION
STA. 15+05 TO STA. 16+79.02 BK.		730	242					730	0.90	657		CHARLES ST. & SERV. DR.
STA. 16+79.02 AND TO STA. 21+98.18		1,149	240					1,149	0.90	1,034		CHARLES STREET
STA. 14+88 TO STA. 22+21		453						400	0.90	360		CONST. DETOUR ROAD
STA. 14+88 TO STA. 22+21		100	120					100	1.10	110		REMOVE DETOUR ROAD
TOTAL		2,475	664					2,422		2,200		

CLASS 1 EXCAVATION
- CUT 2,422 C.Y.
- PLUS TOPSOIL REMOVED UNDERFILL - C.Y.
- TOTAL 2,422 C.Y.

EXCAVATION AVAILABLE FOR EMBANKMENT
- CUT DENSIFIED 2,200 C.Y.
- TOTAL EXCAVATION AVAILABLE FOR EMBANKMENT 2,200 C.Y.

EMBANKMENT REQUIRED
- EMBANKMENT 664 C.Y.
- EXCAVATION AVAILABLE FOR EMBANKMENT 2,200 C.Y.
- WASTE 1,736 C.Y.

REVISIONS

NO.	DESCRIPTION	DATE	BY

DRAINAGE SUMMARY

LOCATION	FROM AND INCLUDING STRUCTURE MARKED	TO AND EXCLUDING STRUCTURE MARKED	301 CLASS 3 EXCAVATION FOR INCIDENTAL CONSTR.	302 SELECTED BACKFILL USING CRUSHER RUN	303 15" R.C. PIPE INLET CONNECTION CLASS 3	304 REMOVE OLD INLETS/MH ANY SIZE OR TYPE	305 STANDARD TYPE H INLET	306 STANDARD TYPE S INLET SINGLE GRATE	307 STANDARD TYPE S COMB. INLET ST'D. TYPE S COMB. INLET DOUBLE GRATE TANDEM	308 STANDARD STORM WATER MANHOLE	309 REBUILT STORM WATER MANHOLE	310 MIX NO. 7 CONC. FOR MISC. STRUCTURES	311 MIX NO. 1 CONCRETE CRADLES/ENCASEMENT	312 BRICK MASONRY FOR MISC. STRUCTURES	313 6" PERFORATED CIRCULAR PIPE UNDERDRAIN	314 6" CIRCULAR PIPE UNDER-DRAIN OUTLETS	315 AGGREGATE BACKFILL FOR UNDERDRAINS	316 4" CIRCULAR BITUMINOUS FIBRE UNDERDRAIN OUTLET
			C.Y.	C.Y.	L.F.	EA.	L.F.	L.F.	L.F.	L.F.	EA.	C.Y.	C.Y.	C.Y.	L.F.	L.F.	C.Y.	L.F.
STA. 14+ TO STA. 15+ LT.	I-1	M-1			110'				40						40			
STA. 14+ LT.	M-1	-								6.3								
STA. 15+ RT.	I-2	M-3			10'		4.5								40			
STA. 15+ RT.	M-3	-								7.7								
STA. 14+ TO STA. 18+00 LT. & RT.						4												
STA. 18+ RT.	I-4	EX.MH			28			3.5							35			
STA. 18+00 TO STA. 21+20 LT. & RT.						4												
STA. 21+20 TO STA. 21+98 LT. & RT.																		
SUB-TOTAL					148'	8	4.5	3.5	4.0	14					115			

SUMMARY OF QUANTITIES

PRELIMINARY ITEMS

ITEM NO.	DESCRIPTION	UNIT	TOTAL QUANTITY	PROPOSAL QUANTITY
101	ENGINEER'S OFFICE NO. 3	L.S.	L.S.	L.S.
102	MAINTENANCE OF TRAFFIC	L.S.	L.S.	L.S.
103	CONSTRUCTION STAKEOUT	L.S.	L.S.	L.S.

GRADING ITEMS

ITEM NO.	DESCRIPTION	UNIT	TOTAL QUANTITY	PROPOSAL QUANTITY
201	CLASS 1 EXCAVATION	C.Y.	2,422	2,500
202	CLASS 1-A EXCAVATION	C.Y.		1,200
203	SPECIAL EXCAVATION - RAILWAY AREA	C.Y.		450
204	CONTINGENT BORROW EXCAVATION	C.Y.		500
205	CONTINGENT SELECT BORROW EXCAVATION	C.Y.		1,200
206	TEST PIT EXCAVATION	C.Y.		100
207	REMOVAL OF EX. CURB, GUTTER, OR COMB. CURB & GUTTER	L.F.	96	140
208	REMOVAL OF EXISTING PAVEMENT	S.Y.	50	50
209	REMOVAL OF EXISTING SIDEWALK	S.Y.	96	120
210	REMOVAL OF EXISTING MASONRY	C.Y.		5
211	SAW CUTTING TWO INCH (2") DEPTH	L.F.		200
212	STRIPPING BITUMINOUS SURFACING MATERIAL	S.Y.	-	50

DRAINAGE ITEMS

ITEM NO.	DESCRIPTION	UNIT	TOTAL QUANTITY	PROPOSAL QUANTITY
301	CLASS 3 EXCAVATION FOR INCIDENTAL CONSTRUCTION	C.Y.		100
302	SELECTED BACKFILL USING CRUSHER RUN	C.Y.		100
303	15 IN. R.C. PIPE INLET CONNECTION, CLASS 3	L.F.	148	148
304	REMOVE OLD INLETS/MANHOLES ANY SIZE OR TYPE	EA.	8	8
305	STANDARD TYPE H INLET	L.F.	4.5	5
306	STANDARD TYPE S INLET - SINGLE GRATE	L.F.	3.5	4
307	STANDARD TYPE S COMBINATION INLET, DOUBLE GRATE TANDEM	L.F.	4.0	4
308	STANDARD STORM WATER MANHOLE	L.F.	14	14
309	REBUILT STORM WATER MANHOLE	L.F.		25
310	MIX NO. 7 CONCRETE FOR MISCELLANEOUS STRUCTURES	C.Y.		2
311	MIX NO. 1 CONCRETE CRADLES AND ENCASEMENT	C.Y.		10
312	BRICK MASONRY FOR MISCELLANEOUS STRUCTURES	C.Y.		10
313	6 IN. PERFORATED CIRCULAR PIPE UNDERDRAIN	L.F.	115	300
314	6 IN. CIRCULAR PIPE UNDERDRAIN OUTLETS	L.F.		20
315	AGGREGATE BACKFILL FOR UNDERDRAINS	C.Y.		20
316	4 IN. CIRCULAR BITUMINOUS FIBRE UNDERDRAIN OUTLET	L.F.		50

PAVEMENT ITEMS

ITEM NO.	DESCRIPTION	UNIT	TOTAL QUANTITY	PROPOSAL QUANTITY
501	6 IN. SUB-BASE, USING CRUSHER RUN	S.Y.	5,021	5,300
502	VARIABLE DEPTH SUB-BASE USING CRUSHER RUN	C.Y.	-	2,700
503	9 IN. PORTLAND CEMENT CONCRETE BASE COURSE MIX NO. 6 CONCRETE	S.Y.	3,095	3,250
504	BITUMINOUS CONCRETE USING BAND SN/STONE	TON	640	675
505	BITUMINOUS CONCRETE USING BAND BI	TON	506	550
506	PATCHING EXISTING PAVEMENT USING MIX NO. 6 CONC.	C.Y.		50
507	PLAIN CEMENT CONC. FOR RESET MANHOLE FRAMES, USING MIX NO 6 CONCRETE	C.Y.		10
508	CALCIUM CHLORIDE	TON		2

SHOULDER ITEMS

ITEM NO.	DESCRIPTION	UNIT	TOTAL QUANTITY	PROPOSAL QUANTITY
601	BITUMINOUS CONCRETE CURB	L.F.	118	140
602	STANDARD TYPE A COMB. CURB AND GUTTER 12-IN. GUTTER PAN 9- IN. DEPTH	L.F.	40	100
603	SPECIAL TYPE A CURB 8 IN. x 19 IN.	L.F.	1,650	1,700
604	5 IN. CONCRETE SIDEWALK	S.Y.		25
605	5 IN. EXPOSED AGGREGATE CONCRETE SIDEWALK	S.Y.		50
606	TEMPORARY SIDEWALK	S.Y.	374	400

LANDSCAPING ITEMS

ITEM NO.	DESCRIPTION	UNIT	TOTAL QUANTITY	PROPOSAL QUANTITY
701	TOPSOIL FURNISHED & PLACED 4 IN. DEPTH	S.Y.	1956	2100
702	SOLID SODDING	S.Y.	472	600
703	SEEDING AND MULCHING FLAT AREAS	S.Y.	1956	2100

UTILITIES

ITEM NO.	DESCRIPTION	UNIT	TOTAL QUANTITY	PROPOSAL QUANTITY
801	PLUG EXISTING SANITARY HOUSE CONNECTIONS	EA.		15
802	6 IN. DUCTILE IRON PIPE AND FITTINGS	L.F.	36	36
803	6 IN. FIRE HYDRANT	EA.	1	1
804	6 IN. FIRE HYDRANT WITH TAPPING VALVE AND SLEEVE	EA.	1	1
805	NEW 2 IN. WATER SERVICE/1 1/2 IN. METER	EA.	1	1
806	MIX NO 3 CONCRETE FOR BUTTRESSES AND ANCHORS	C.Y.		5
807	ABANDON CONDUIT HANDBOX	EA.	10	10
808	ABANDON CONDUIT MANHOLE	EA.	6	6
809	HANDBOX	EA.	15	15
810	TYPE K-P MOD. DUCT SECTION 8-5" & 3-3" IO DUCT	L.F.	660	660
811	TYPE Y DUCT SECTION 1-3 IN. I.D.	L.F.	540	540
812	TYPE P DUCT SECTION 3-4 IN. I.D. 3W x 1H	L.F.	380	380
813	PRECAST LINE MANHOLE, 6x12x9 HEADROOM	EA.	1	1
814	ENLARGE EX. CONDUIT MANHOLE TO TYPE 'G' MANHOLE-MECH. ELEC. 6x12x9 HDRM	EA.	1	1
815	REMOVE ROADWAY PEDESTAL AND/OR FIRE BOX BASE	EA.	9	9
816	REMOVE DUCT SECTION, ANY SIZE	L.F.	50	50
817	ACANDON DUCT SECTION, ANY SIZE	L.F.	800	800
818	PRECAST EXTENSIONS	EA.	3	3
819	ROADWAY PEDESTAL BASE TYPE 1	EA.	14	14
820	ROADWAY PEDESTAL BASE 15 IN. BOLT CIRCLE	EA.	1	1

STATE OF MARYLAND — JOHN P. WHITE — No. 11974 — REGISTERED PROFESSIONAL ENGINEER

CITY OF BALTIMORE
DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT
CHARLES CENTER INNER HARBOR MANAGEMENT INC.

INNER HARBOR WEST
STREET CONTRACT NO. 4
RECONSTRUCTION OF CHARLES STREET
FROM CONWAY STREET TO PRATT STREET
CONVENTION CENTER SERVICE DRIVE
FROM CONWAY STREET TO PERRY STREET

SUMMARY OF QUANTITIES

SCALE: HWY CONT 2523 DATE: JUNE, 1978

DESIGNED: R.D.C. DRAWN: R.D.C. CHKD: SHEET 14 OF 14

K&E BALTIMORE 18 1253 HERCULENE MC 4034

FILE REF.

RATIO - 24

CITY OF BALTIMORE

DEPARTMENT OF PUBLIC WORKS

BUREAU OF ENGINEERING

HIGHWAY CONTRACT 2523

FOR

INNER HARBOR WEST PROJECT MD-52

STREET CONTRACT NO. 4

RECONSTRUCTION OF CHARLES STREET
FROM CONWAY STREET TO PRATT STREET
CHARLES STREET SERVICE DRIVE
FROM CONWAY STREET TO PERRY STREET

ABBREVIATIONS

- EMH - ELECTRICAL MANHOLE
- FH - FIRE HYDRANT
- G - GAS
- HB - ELECTRICAL HAND BOX
- HPH - HIGH PRESSURE HYDRANT VALVE
- HPV - HIGH PRESSURE WATER LINE VALVE
- LP - LIGHT POLE
- SDMH - STORM DRAIN MANHOLE
- SMH - SANITARY MANHOLE
- TMH - TELEPHONE MANHOLE
- T.P. - TRAFFIC POLE
- W.M. - WATER METER
- W.V. - WATER VALVE
- VCPX - VITRIFIED CLAY PIPE EXTRA STRENGTH
- NIC - NOT IN CONTRACT
- F.C.B. - FIRE CONTROL BOX
- (B-4) - NOT IN CONTRACT

THE GOVERNING SPECIFICATIONS FOR THIS PROJECT WILL BE THE "CITY OF BALTIMORE, DEPARTMENT OF PUBLIC WORKS, SPECIFICATIONS FOR MATERIAL, HIGHWAY, BRIDGES, UTILITIES AND INCIDENTAL STRUCTURES DATED 1974", THE CURRENT ADDENDA THERE TO AND THE SPECIAL PROVISIONS. THE "CITY OF BALTIMORE, BOOK OF STANDARDS", LATEST REVISION SHALL APPLY TO THIS PROJECT IN SO FAR AS IT IS APPLICABLE.

FOR SEDIMENT AND EROSION CONTROL, THE "STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREAS" (STATE OF MARYLAND, DEPT. OF WATER RESOURCES) SHALL BE APPLICABLE TO THIS PROJECT. SEE ALSO STD. PLATE BC-330.01

FIELD BOOKS

BOOK NO.	DESCRIPTION
1729F/1	INNER HARBOR SURVEY CONTROLS AND TOPO
1729F/2	INNER HARBOR CROSS SECTIONS
L966	CHARLES ST. CROSS SECTIONS - HUGHES TO PRATT ST.

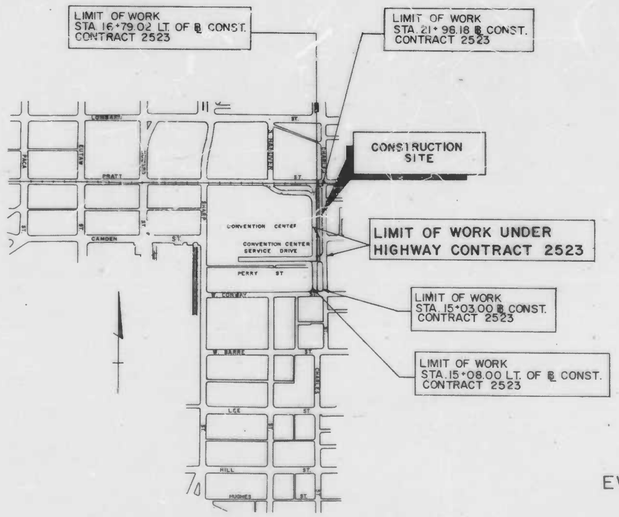
INDEX OF DRAWINGS

1. TITLE SHEET & LOCATION PLAN
2. TYPICAL SECTIONS AND DETAILS
3. PAVING DETAILS & GENERAL NOTES
4. PLAN & PROFILE STA. 13+50 TO STA. 18+00
5. PLAN-STA. 18+00 TO STA. 21+20, PROFILE-STA. 18+00 TO STA. 22+18.36
6. PROFILE-CHARLES ST. SERVICE DRIVE
7. PLAN-STA. 21+20 TO STA. 23+00
8. DETAILS, PROFILE-PRATT ST. SERVICE DRIVE
9. DRAINAGE PROFILES & DETAILS
10. ELECTRICAL PLAN
11. ELECTRICAL PLAN & PROFILE
12. ELECTRICAL DETAILS
13. ELECTRICAL PROFILES
14. SUMMARY OF QUANTITIES

SYMBOLS

- 116 — 117 BASELINE OF SURVEY
- BASELINE OF CONSTRUCTION
- POSSIBLE LOCATIONS OF EXISTING RAILROAD OR STREETCAR TRACKS
- KNOWN ABANDONED UTILITIES

EXIST.		PROPOSED
	HIGH PRESSURE WATER	
	GAS	
	SANITARY	
	STORM	
	WATER	
	TELEPHONE	
	MECHANICAL/ELECTRICAL	
	LIMIT OF CONTRACT	



LOCATION PLAN

DIRECTOR, DEPARTMENT OF PUBLIC WORKS CITY OF BALTIMORE	HEAD, BUREAU OF ENGINEERING
COMMISSIONER DEPARTMENT OF HOUSING & COMMUNITY DEVELOPMENT	CHIEF, HIGHWAY ENGINEERING DIVISION BUREAU OF ENGINEERING
DIRECTOR, CONSTRUCTION & BUILDINGS INSPECTION DEPARTMENT OF HOUSING & COMMUNITY DEVELOPMENT	CHIEF, WATER DIVISION BUREAU OF ENGINEERING
COMMISSIONER DEPARTMENT OF TRANSIT AND TRAFFIC	ACT. CHIEF, WASTE WATER DIVISION BUREAU OF ENGINEERING
SEDIMENTATION & EROSION CONTROL REPRESENTATIVE	CHIEF SURVEY & RECORDS DIVISION

EWELL, BOMHARDT & ASSOCIATES
Consulting Engineers
1800 N. CHARLES ST. BALTIMORE, MARYLAND

EBA PROJECT 2263 H