CITY OF DETROIT

COLEMAN A. YOUNG — MAYOR

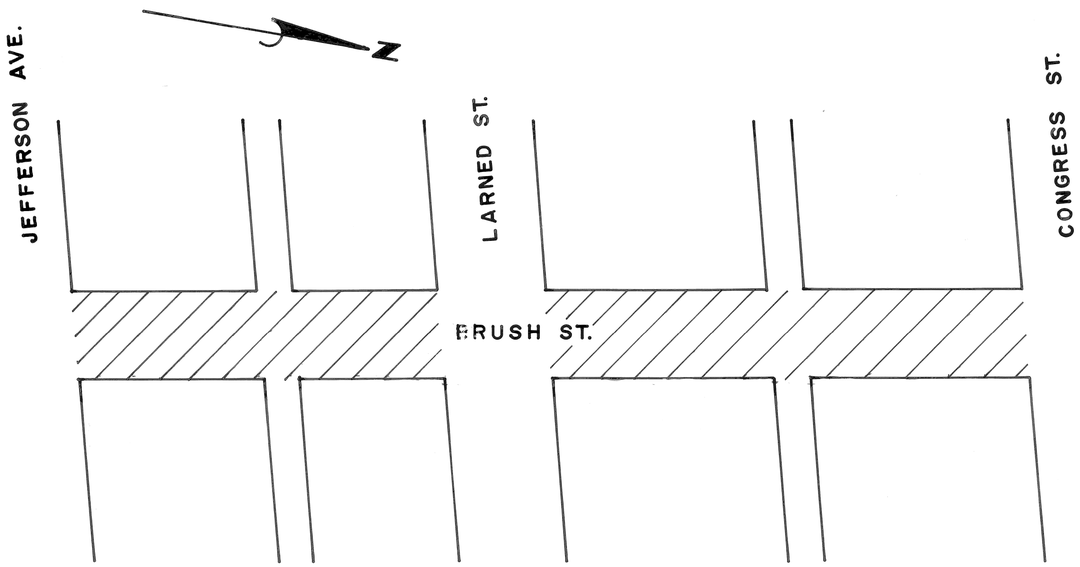
CITY ENGINEERING DEPARTMENT

PLANS FOR PROPOSED

BRUSH STREET WIDENING

FROM

JEFFERSON TO CONGRESS



CONSTRUCTION AREA

INDEX OF SHEETS

1. TITLE SHEET
2. QUANTITY AND SECTION SHEET
3. REMOVAL AND UTILITY SHEET
4. PAVING PLAN
5. MISCELLANEOUS DETAILS— HYDRANTS

6.—3. P.L.D. PLANS

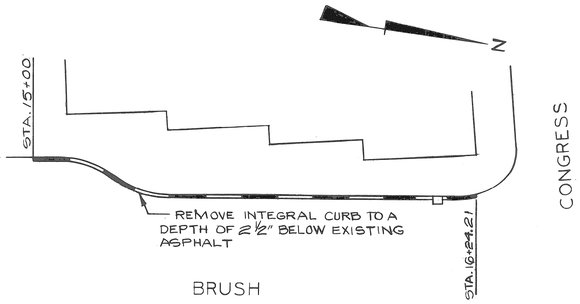
PROJECT: BRUSH STREET WIDENING FROM JEFFERSON TO CONGRESS	CONTRACT NO. PW-6707

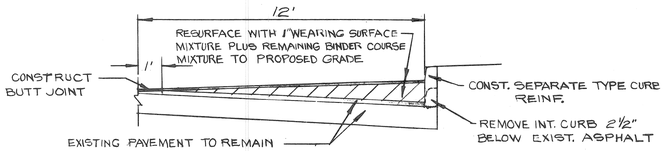
PLANS PREPARED BY

CITY ENGINEERING DEPARTMENT

RECOMMENDED FOR APPROVAL	Naim O. Kawass ENGINEER OF STREETS	10/31/84 DATE
RECOMMENDED FOR APPROVAL	Naim O. Kawass FOR ASSISTANT CITY ENGINEER	10/31/84 DATE
APPROVED	E M Kennedy Jr DEPUTY DIRECTOR	11/3/84 DATE
APPROVED	C R Perkins DIRECTOR	11-13-84 DATE

DATE OCT. 31, 1984	DRWG. NO. 1

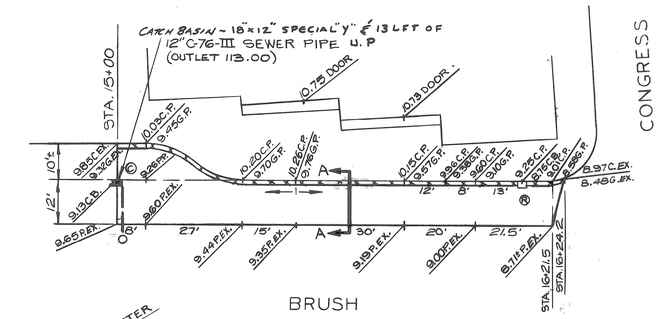




SECTION A-A

NO SCALE

ADD 110.00' TO ALL ELEVATIONS



10.00 G.EX. = EXIST. GUTTER
10.00 P.EX. = EXIST. PAVT.
10.00 C.EX. = EXIST. CURB
10.00 P. = PROP. PAVT.
10.00 G.P. = PROP. GUTTER
10.00 C.P. = PROP. CURB

PLAN

SCALE 1" = 20'

LEGEND

- RESURFACING AREA
- INTEGRAL CURB REMOVAL
- CONSTRUCT SEPARATE TYPE CURB-NON-REINF.
- CONSTRUCT STD. CATCH BASIN
- 12" SEWER PIPE
- RESET EXISTING CATCH BASIN

COOR'D	DESCRIPTION	DR'N	CK'D	APV'D	DATE	REFERENCE DRAWINGS	

REVISIONS LOCATED BY COORDINATES ON SHEET

DESIGNED BY
DRAWN BY
TRACED BY
CHECKED BY

APPROVED: William L. Kelley
ENGINEER OF STREETS

CITY OF DETROIT
CITY ENGINEERING DEPARTMENT
BUREAUS OF STREETS AND HIGHWAYS
FOR

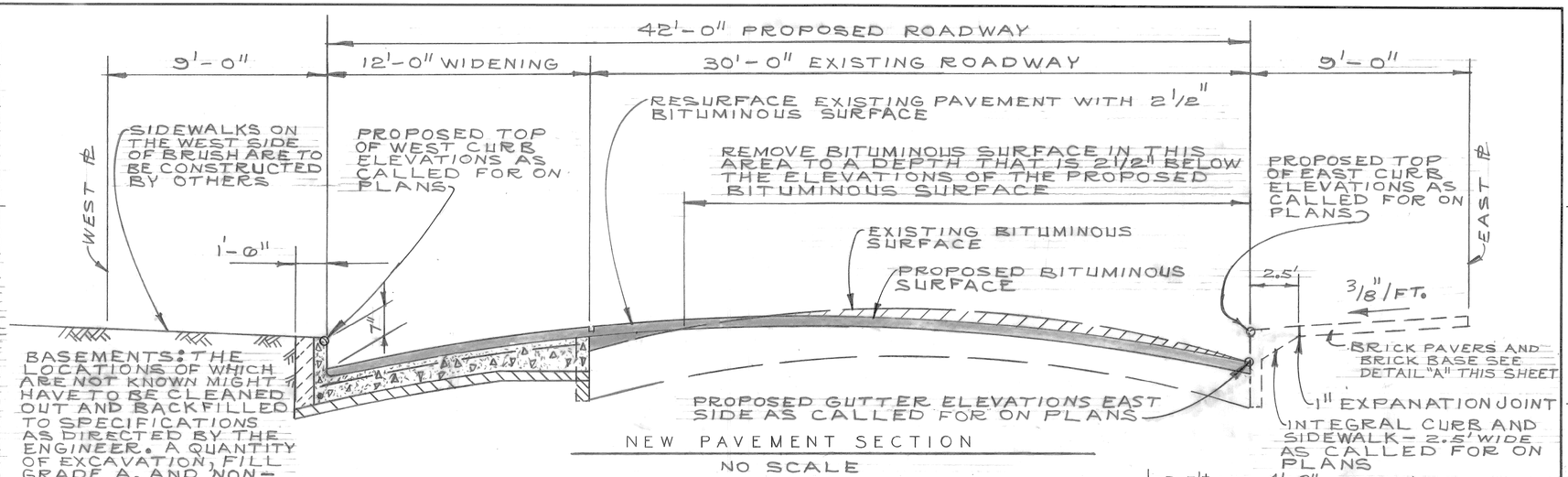
REVISED BRUSH AND CONGRESS INTERSECTION

SHEET 1 OF 1 SHEETS
CONTRACT NO. PW-6707
ASSIGNMENT NO.
DATE 10-2-85

ITEM NO.	DESCRIPTION OF ITEM	UNIT	TOTAL
	EXCAVATION	CYDS	450
	STREET PAVEMENT REMOVAL - UNREINFORCED	SYDS	10
	SIDEWALK REMOVAL	SFT	6,605
	DRIVEWAY REMOVAL	SFT	605
	INTEGRAL CURB AND SIDEWALK REMOVAL	LFT	175
	SEPARATE TYPE CURB REMOVAL - UNREINFORCED	LFT	515
	NON-REINFORCED CONCRETE REMOVAL	CYDS	50
	REINFORCED CURB AND GUTTER REMOVAL	LFT	23
	PREFORMED WHITE THERMOPLASTIC PAVEMENT MARKINGS - 4"	LFT	340
	PREFORMED YELLOW THERMOPLASTIC PAVEMENT MARKINGS - 4"	LFT	900
	FILL - (GRADE A)	CYDS	130
	FILL - (22 A)	CYDS	72
	MANHOLE ADJUSTMENT	EACH	4
	MANHOLE - RECONSTRUCT CONE	EACH	1
	CATCH BASIN ABANDONMENT	EACH	2
	CATCH BASIN "B" WITH TRAP	EACH	2
	SEWERS - 12" PIPE C-76 - III	LFT	105
	SEWERS UNDER PAVEMENT - 12" PIPE C-76 - III	LFT	60
	CATCH BASIN 18" X 12" SPECIAL "Y" - MODIFIED	EACH	1
	PREFORMED WHITE THERMOPLASTIC PAVEMENT MARKINGS - 6"	LFT	1,224
	CONCRETE BASE PAVEMENT - 9" UNIFORM - REINFORCED *	SYDS	846
	CONCRETE BASE PAVEMENT - 9" UNIFORM - REINFORCED	SYDS	160
	INTEGRAL CURB AND SIDEWALK 2' WIDE	LFT	232
	TEST CORES	EACH	2
	BRICK PAVERS	SFT	730
	4" BRICK BASE	SFT	1075
	6" BRICK BASE	SFT	110
	SIDEWALK 6" STANDARD ***	SFT	207
	TEMPORARY PAVEMENT MARKING, TYPE R	LFT	25
	RESETTING CATCH BASIN, ALL TYPES	EACH	5
	RESETTING MANHOLES	EACH	20
	RESETTING STOP BOXES	EACH	2
	CONDITION EXISTING SURFACE	SYDS	68
	CLEANING	SYDS	272
	STRIP AND ADJUST ASPHALT SURFACE	SYDS	150
	REMOVE EXISTING CONCRETE BASE	SYDS	50
	REPLACEMENT CONCRETE BASE WITH GRADE A CONCRETE	SYDS	50
	SHEET ASPHALT WEARING SURFACE MIXTURES	TONS	15
	REMOVING BITUMINOUS SURFACE	SYDS	1,360
	BITUMINOUS BOND COAT	GALS	422
	STRIPPING	SYDS	50
	CLEANING STRUCTURES	EACH	5
	SAWED LONGITUDINAL JOINT	LFT	510
	FIRE HYDRANT	EACH	1
	REMOVE HYDRANT - METHOD I	EACH	1
	REMOVE HYDRANT - METHOD II	EACH	1
	MAINTAINING TRAFFIC	LUMP SUM	LUMP SUM
	TEMPORARY PAVEMENT MARKING, TYPE NR	LFT	25
	RESURFACING MIXTURES IN PLACE (ALL NATURAL AGGREGATES)		
	FINE BINDER COURSE MIXTURE	TONS	267
	RESURFACING MIXTURES IN PLACE (ALL SLAG AGGREGATES)		
A)	FINE BINDER COURSE MIXTURE	TONS	244
B)	WEARING SURFACE MIXTURE 31A(CD)	TONS	146
	FOR ELECTRICAL ITEMS SEE SHEET *31		

* INCLUDES REINFORCED INTEGRAL CURB (SEE STD. DRWG. NO. C-4943)

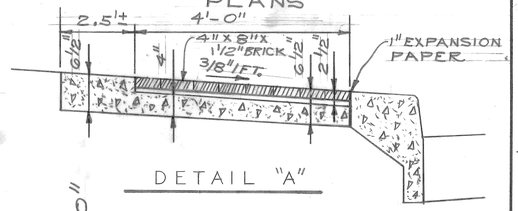
*** CONSTRUCTION ONLY



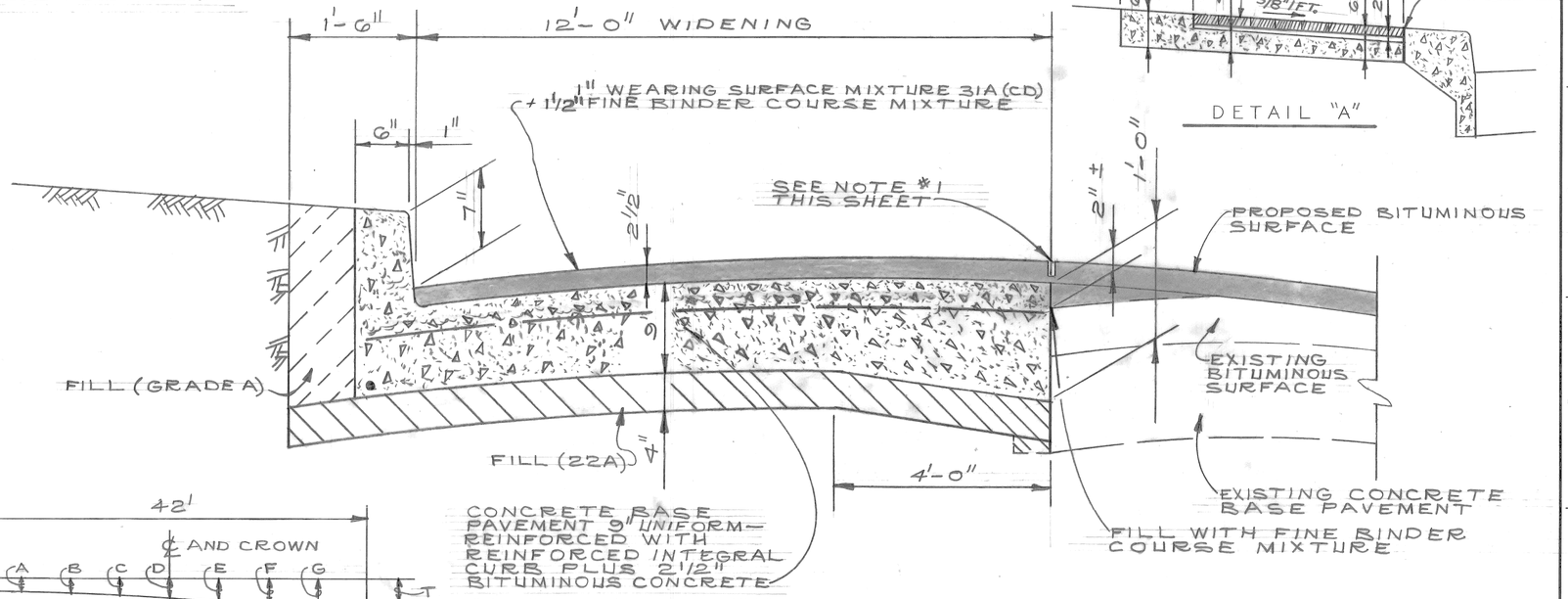
BASEMENTS: THE LOCATIONS OF WHICH ARE NOT KNOWN MIGHT HAVE TO BE CLEANED OUT AND BACKFILLED TO SPECIFICATIONS AS DIRECTED BY THE ENGINEER. A QUANTITY OF EXCAVATION, FILL GRADE A, AND NON-REINFORCED CONCRETE REMOVAL HAS BEEN INCLUDED FOR THIS.

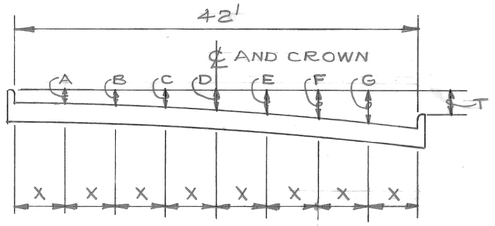
NEW PAVEMENT SECTION

NO SCALE



DETAIL "A"





PAVEMENT WIDENING DETAIL

NO SCALE

NOTE:

1. SAW PLANE OF WEAKNESS JOINT OVER THE EXISTING JOINT AS DIRECTED BY THE ENGINEER. THIS WORK SHALL BE PAID FOR AS "SAWED LONGITUDINAL JOINT".

PAV'T. WIDTH	CURB HEIGHT	X	T	A	B	C	D	E	F	G
42'	.58'	5.25'	0.0	.368'	.214'	.122'	.091'	.122'	.214'	.368'

ELEMENTS OF 42' PAVEMENT

COOR'D	DESCRIPTION	DR'N	CK'D	APV'D	DATE

REVISIONS LOCATED BY COORDINATES ON SHEET

REFERENCE DRAWINGS

DESIGNED BY: Talley
DRAWN BY: JONES
TRACED BY:
CHECKED BY: WEL

APPROVED: Marvin D. Lawrence
ENGINEER OF STREETS

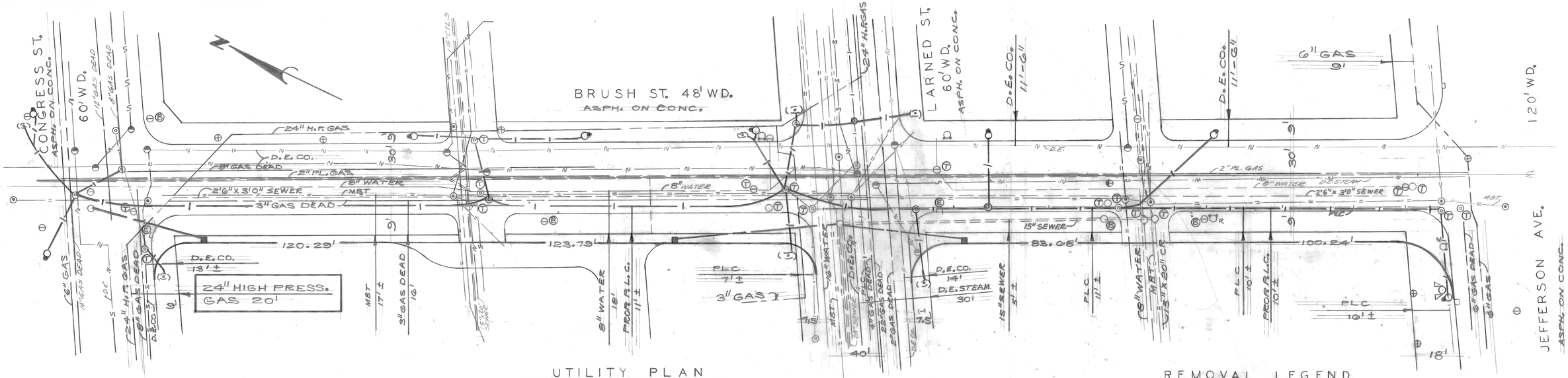
CITY OF DETROIT
CITY ENGINEERING DEPARTMENT
BUREAUS OF STREETS AND HIGHWAYS
FOR

BRUSH STREET WIDENING
FROM
JEFFERSON TO CONGRESS

QUANTITY AND SECTION SHEET

SHEET 2 OF 31 SHEETS
CONTRACT NO. PW-6707
ASSIGNMENT NO. 84-22-08
DATE 10-31-84

TELEDYNE POST N03155



UTILITY PLAN

SCALE: 1" = 20'

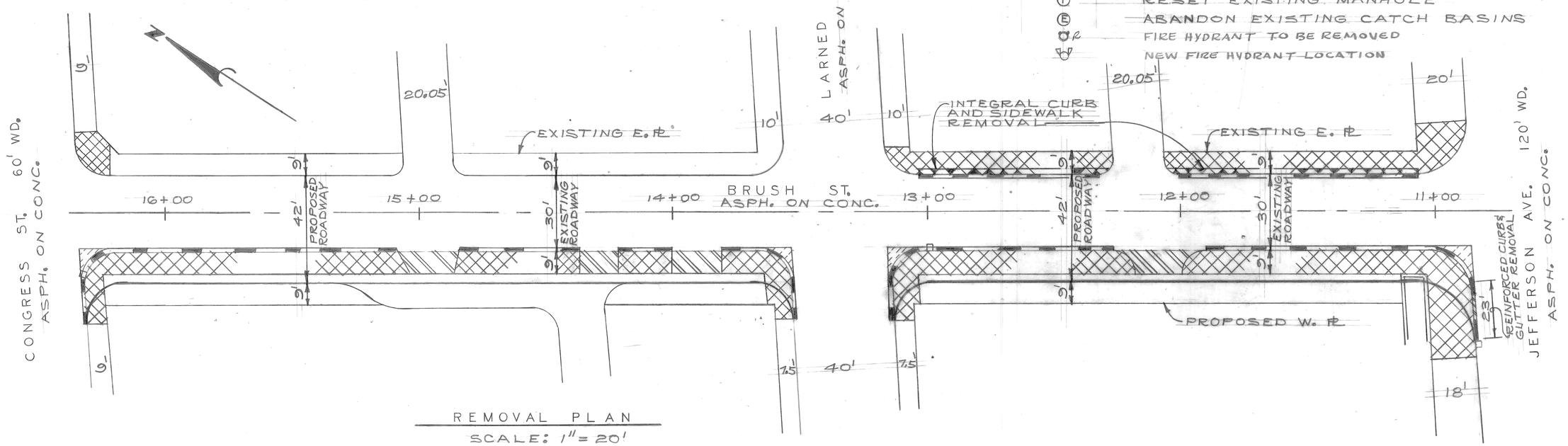
CALL MISS DIG
48 HOURS PRIOR TO CONSTRUCTION 647-7344

NOTES:

1. BEFORE STARTING CONSTRUCTION - THE CONTRACTOR MUST CHECK WITH THE UTILITY COMPANIES FOR LOCATIONS OF EXISTING STRUCTURES WHETHER OR NOT INDICATED ON PLANS.
2. FOR UTILITY LEGEND SEE STANDARD DRAWING C-902-A.

REMOVAL LEGEND

- STREET PAVEMENT REMOVAL - UNREINFORCED
- SIDEWALK REMOVAL
- DRIVEWAY REMOVAL
- SEPARATE TYPE CURB REMOVAL - UNREINFORCED
- (R) ADJUST EXISTING MANHOLE
- (T) RESET EXISTING MANHOLE
- (E) ABANDON EXISTING CATCH BASINS
- FIRE HYDRANT TO BE REMOVED
- NEW FIRE HYDRANT LOCATION



REMOVAL PLAN

SCALE: 1" = 20'

COOR'D	DESCRIPTION	DR'N	CK'D	AP'VD	DATE

REVISIONS LOCATED BY COORDINATES ON SHEET

REFERENCE DRAWINGS

DESIGNED BY
DRAWN BY J.K. J.J.
TRACED BY
CHECKED BY WL

APPROVED:
ENGINEER OF STREETS
HIGHWAY ENGINEER

CITY OF DETROIT
CITY ENGINEERING DEPARTMENT
BUREAUS OF STREETS AND HIGHWAYS
FOR

BRUSH STREET WIDENING
FROM
JEFFERSON TO CONGRESS

REMOVAL AND UTILITY SHEET

SHEET 3 OF 31 SHEETS
CONTRACT NO. PW-6707
ASSIGNMENT NO. 84-22-08
DATE 10-31-84

W.S. Mirand 12-7-84

SCALE	HORIZONTAL 1"=20'	BOOK LL 28F(27)	LEVEL
	VERTICAL 1"=2'	NO. PG.	DATE 12/83
		PAVING COMPLETED	

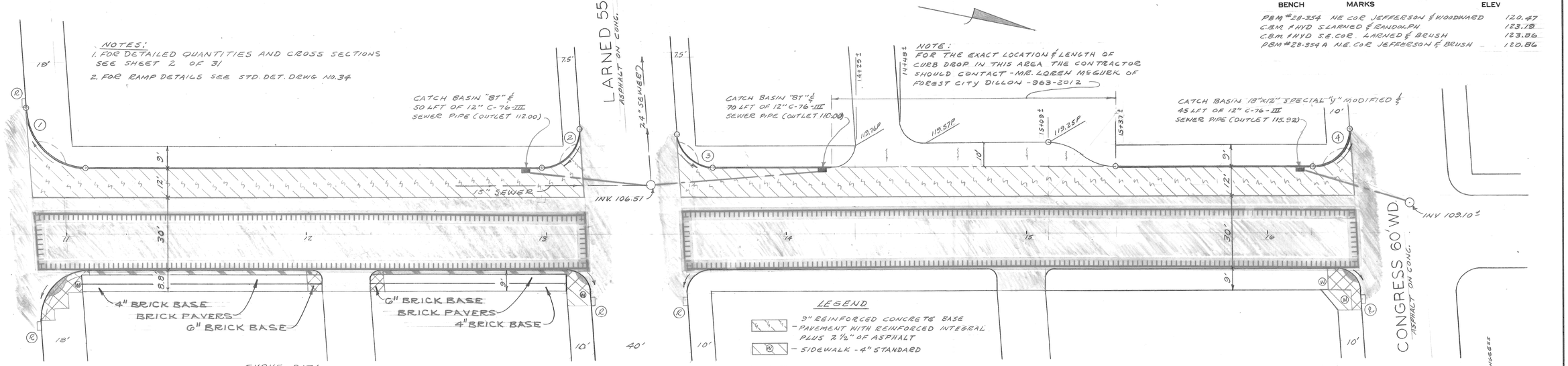
BEFORE STARTING CONSTRUCTION _____ CONTRACTOR MUST CHECK WITH UTILITIES FOR LOCATIONS OF EXISTING STRUCTURES WHETHER OR NOT INDICATED ON PLANS.

NOTE - FOR SYMBOLS (A) ETC. SEE STANDARD DETAIL DRAWING NO C-4719

BENCH MARKS	ELEV
PBM #28-354 NE COR JEFFERSON & WOODWARD	120.47
C.B.M. & HYD S.LARNED & RANDOLPH	123.18
C.B.M. & HYD S.E.COR. LARNED & BRUSH	123.86
PBM #28-354 A N.E.COR JEFFERSON & BRUSH	120.86

NOTES:
1. FOR DETAILED QUANTITIES AND CROSS SECTIONS SEE SHEET 2 OF 31
2. FOR RAMP DETAILS SEE STD. DET. DRWG NO. 34

NOTE:
FOR THE EXACT LOCATION & LENGTH OF CURB DROP IN THIS AREA THE CONTRACTOR SHOULD CONTACT - MR. LOREN MEGUIER OF FOREST CITY DILLON - 963-2012



CURVE DATA

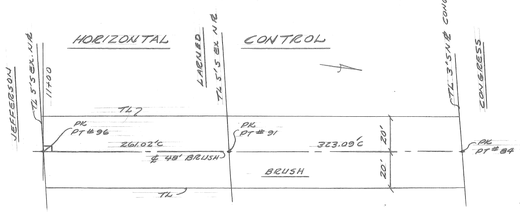
1	2	3	4
Δ = 86° 02' 23.6"	Δ = 93° 55' 46.3"	Δ = 86° 04' 13.7"	Δ = 93° 56' 15"
R = 25'	R = 15'	R = 15'	R = 15'
T = 23.33'	T = 16.06'	T = 14.00'	T = 16.07'
A = 37.54'	A = 24.53'	A = 22.53'	A = 24.53'

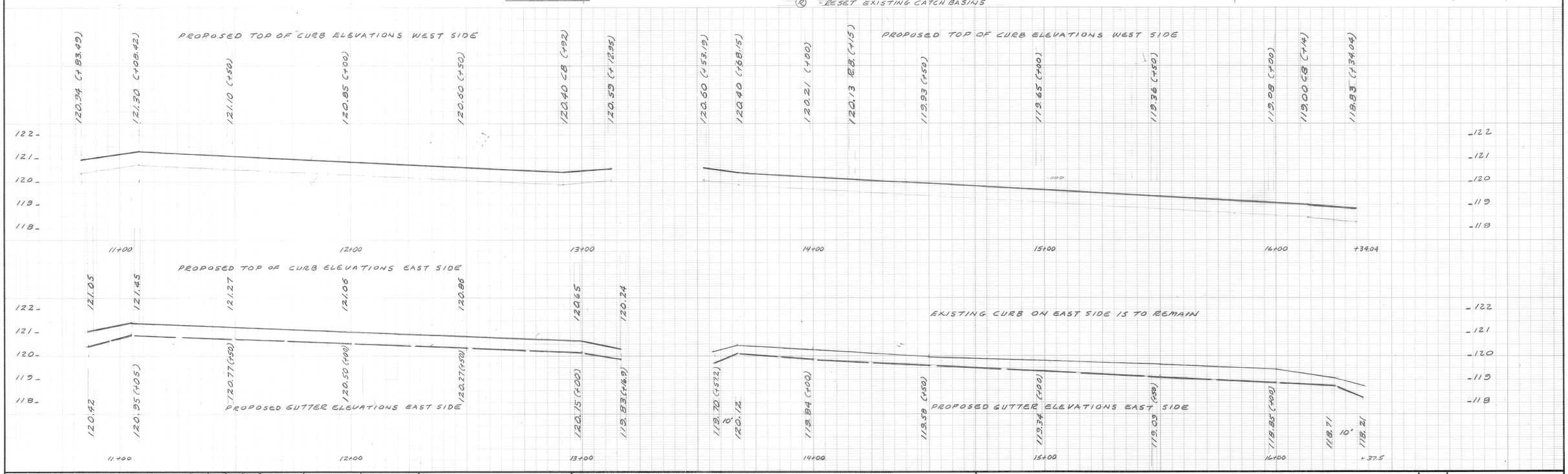
LEGEND

- 9" REINFORCED CONCRETE BASE - PAVEMENT WITH REINFORCED INTEGRAL PLUS 2½" OF ASPHALT
- (W) - SIDEWALK - 4" STANDARD
- (W) - SIDEWALK - 6" STANDARD
- INTEGRAL CURB AND SIDEWALK - 2" WIDE
- RESURFACING AREA
- SIDEWALK RAMP TYPE III
- CURB DROP FOR SIDEWALK RAMP TYPE III
- REMOVING BITUMINOUS SURFACE BOUNDARY
- 119.57P - PROPOSED TOP OF PAVEMENT ELEVATION
- (R) - RESET EXISTING CATCH BASINS

SCALE 1"=20'

HORIZONTAL CONTROL





DETAIL GRADES ADDED	WLF		WLF	10/11/84	PLAN	Talley		
DESCRIPTION	DR N	CH D	AP VD	DATE	GRADE	Talley		
REVISIONS					ESTIMATE	Talley		
					FINAL	CHECK WL	REVIEW	

BY — CHECKED BY

APPROVED: Harm D Kawass
ENGINEER OF STREETS

CITY OF DETROIT
CITY ENGINEERING DEPARTMENT
BUREAUS OF STREETS AND HIGHWAYS
FOR

BRUSH STREET WIDENING
FROM
JEFFERSON TO CONGRESS

PAVING PLAN

INDEX NO.
TOPO NO.
INDEXED

SHEET 4 OF 31 SHEETS
CONTRACT NO. PW-6707
ASSIGNMENT NO. 84-22-08
DATE 10-31-84

TELEPHONE POST HANGER

12-7-84 Jerry M. Arrington