

PROPOSED IMPROVEMENTS COVERED BY THESE PLANS ARE IN ACCORDANCE WITH AASHTO : "A POLICY ON GEOMETRIC DESIGN OF HIGHWAYS AND STREETS, 1990".

CITY OF DETROIT
 DEPARTMENT OF PUBLIC WORKS
 CITY ENGINEERING DIVISION
 IN CO-OPERATION WITH
 MICHIGAN DEPARTMENT OF TRANSPORTATION
 ECONOMIC DEVELOPMENT - CATEGORY A
 CONTROL SECTION EDA 82522 JOB NO. 40938A

THE IMPROVEMENTS COVERED BY THESE PLANS SHALL BE DONE IN ACCORDANCE WITH THE MICHIGAN DEPARTMENT OF TRANSPORTATION 1990 STANDARD SPECIFICATIONS AND SUPPLEMENTAL SPECIFICATIONS.

FHWA REGION	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MCH				
STREET	CITY	COUNTY	TWP	SHEET NO	TOTAL SHEETS

TRAFFIC VOLUME	1996	2016
CLAY/ST. AUBIN ADT	9425	10,370
ST. JEAN - ADT	7304	8035
DESIGN SPEED-----	25 MPH	
POSTED SPEED-----	25 MPH	

INDEX OF SHEETS

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26	QUANTITY SHEET

STANDARD PLANS	SPECIAL DETAILS
II-28G	IV-83H
II-29E	V-100C
II-39K	VI-125H
II-41J	
II-42F	II-40H LOAD TRANSFER
II-43D	VI-121D TRACK CROSSING
II-44H	
II-45C	
II-58M	
III-60H	



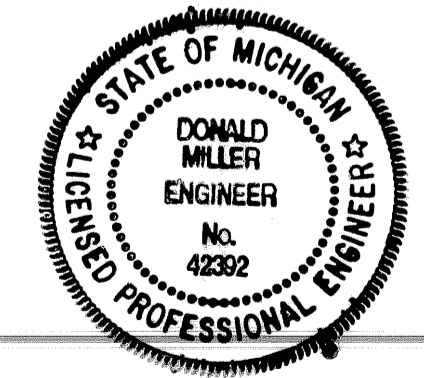
STATE LAW ACT 53
 3 WORKING DAYS
 BEFORE YOU DIG!
 CALL MISS DIG!
 TOLL FREE
 1-800-482-7171

CONTRACT FOR RECONSTRUCTION
 LOCAL AUTHORITY APPROVAL
 CITY OF DETROIT
 CITY ENGINEERING DIVISION
 DEPARTMENT OF PUBLIC WORKS

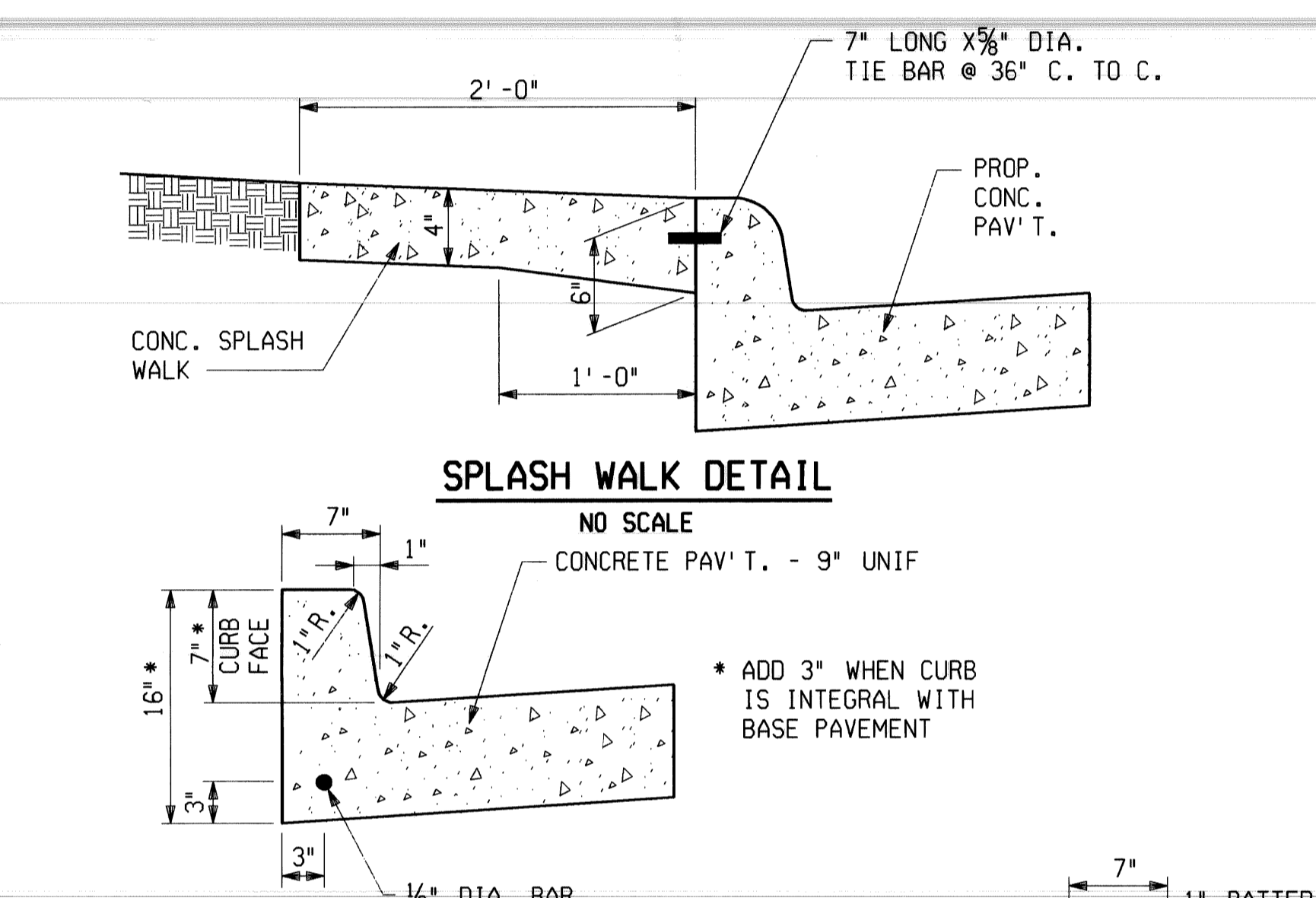
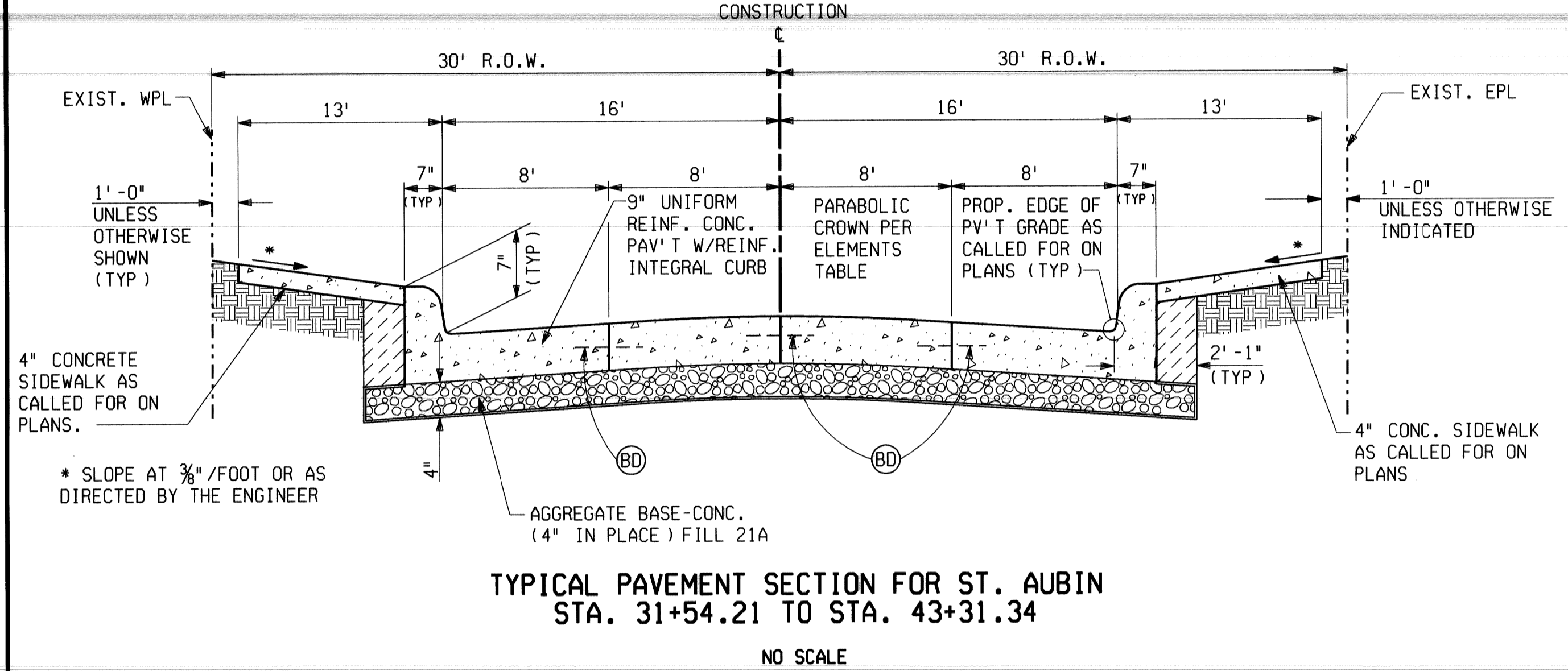
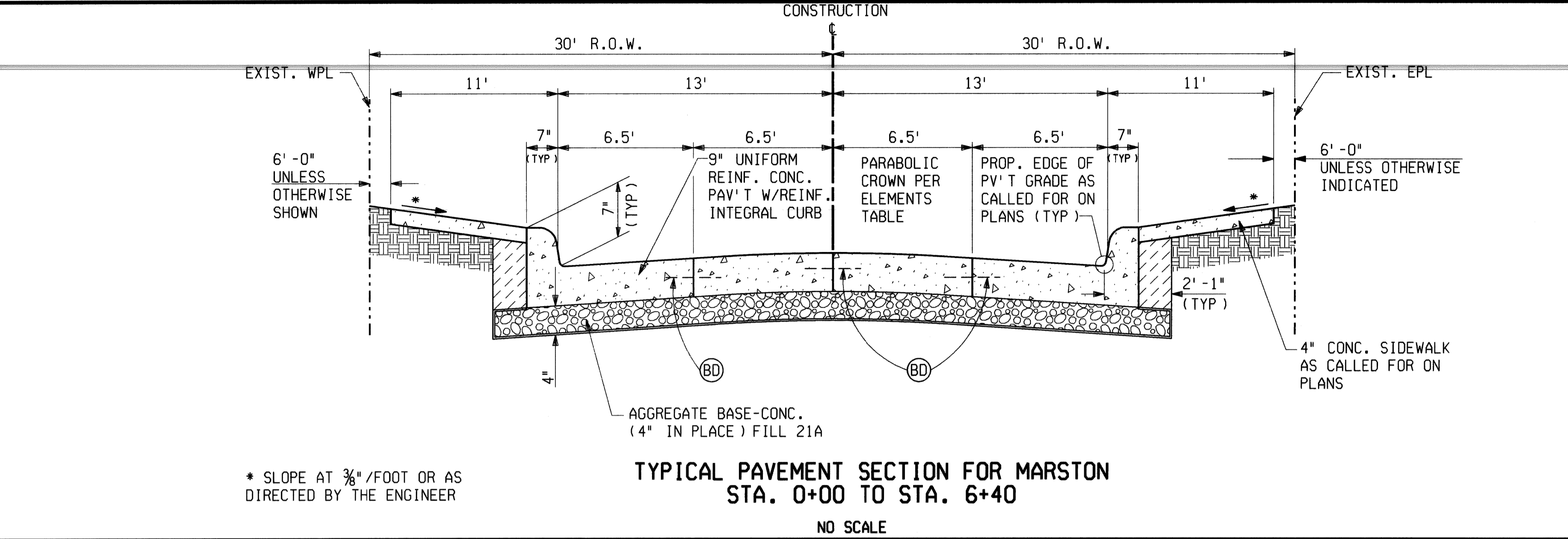
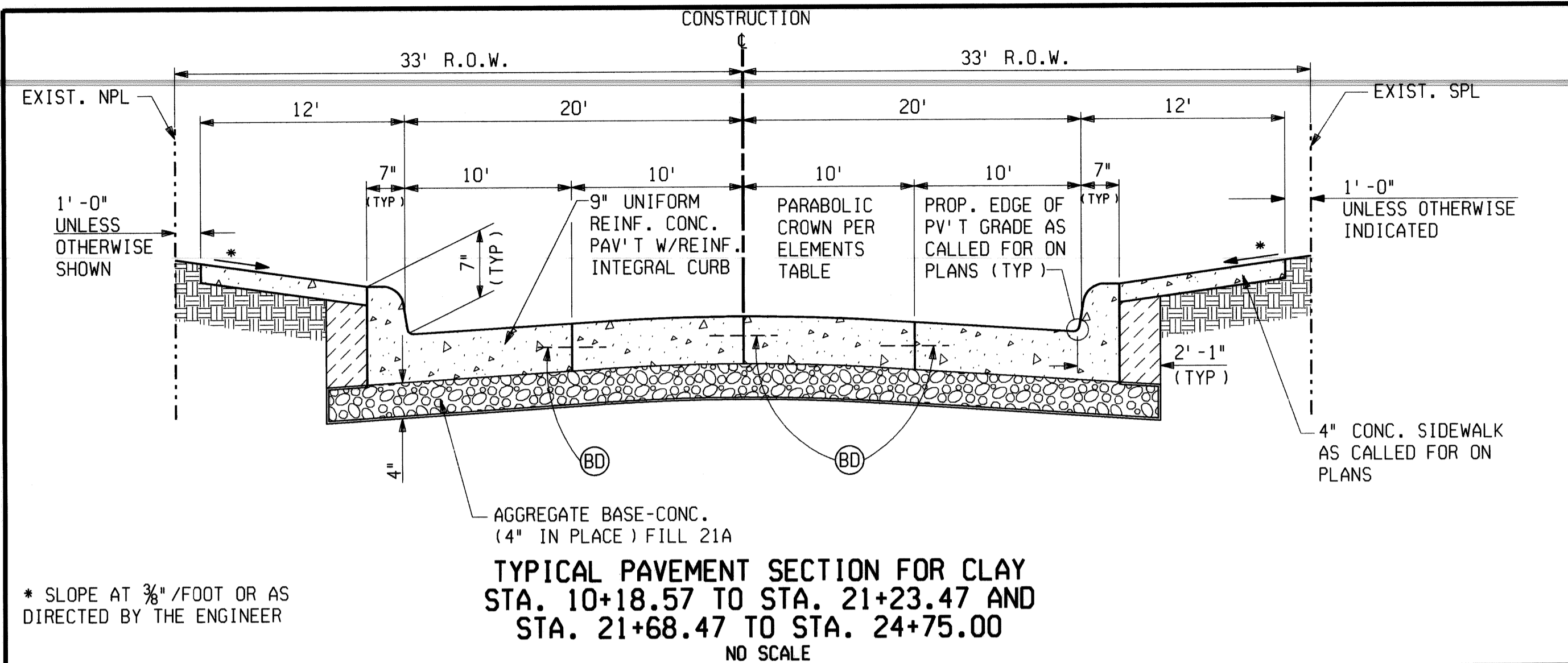
APPROVED BY _____ DATE _____
HEAD ENGINEER
 APPROVED BY _____ DATE _____
CITY ENGINEER

PREPARED UNDER SUPERVISION OF
PB *Donald P. Miller* 42392
REGISTERED PROFESSIONAL ENGINEER REGISTRATION NO.

PARSONS BRINCKERHOFF MICHIGAN, INC.
 DETROIT, MICHIGAN

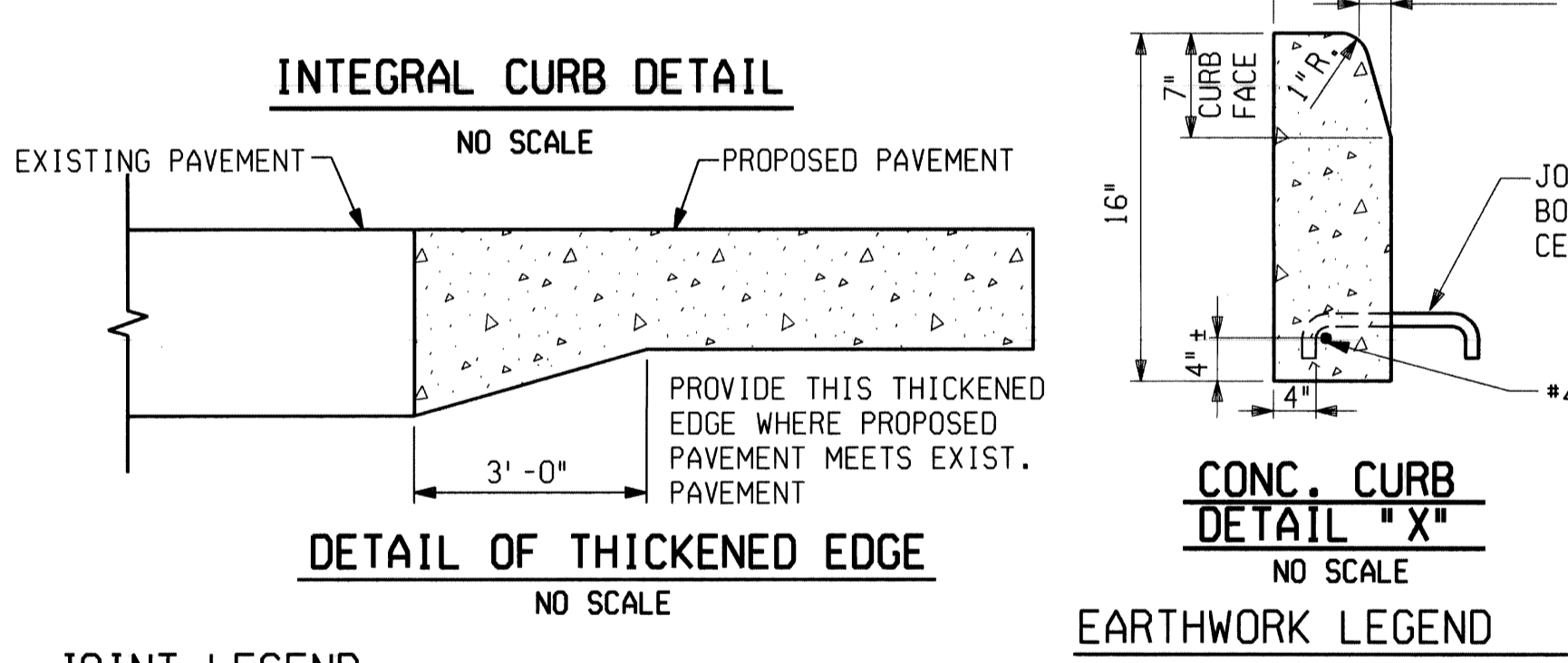
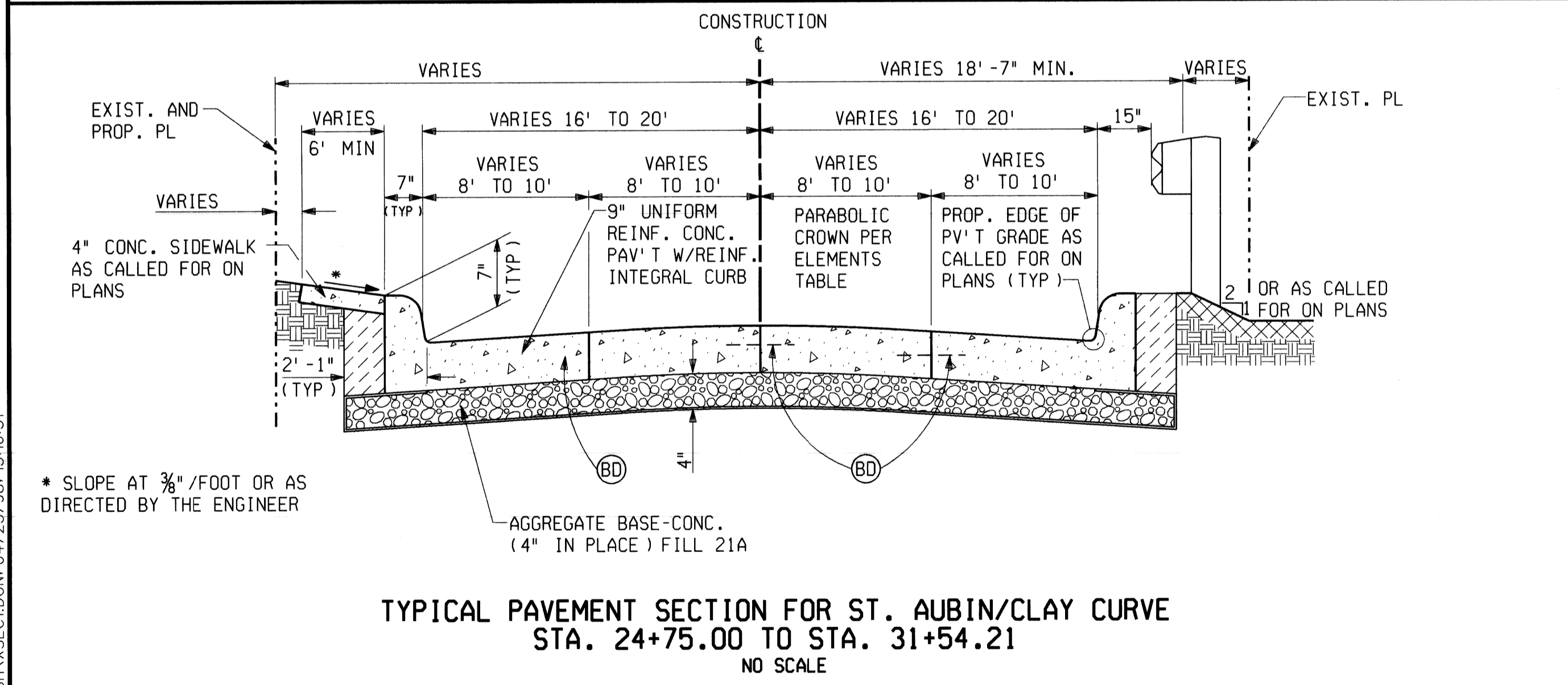


JOB NO. 40938A
 CONTROL SECTION EDA 82522



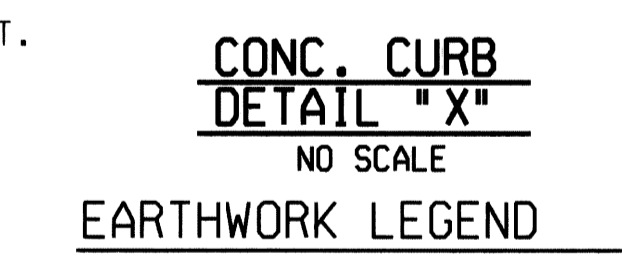
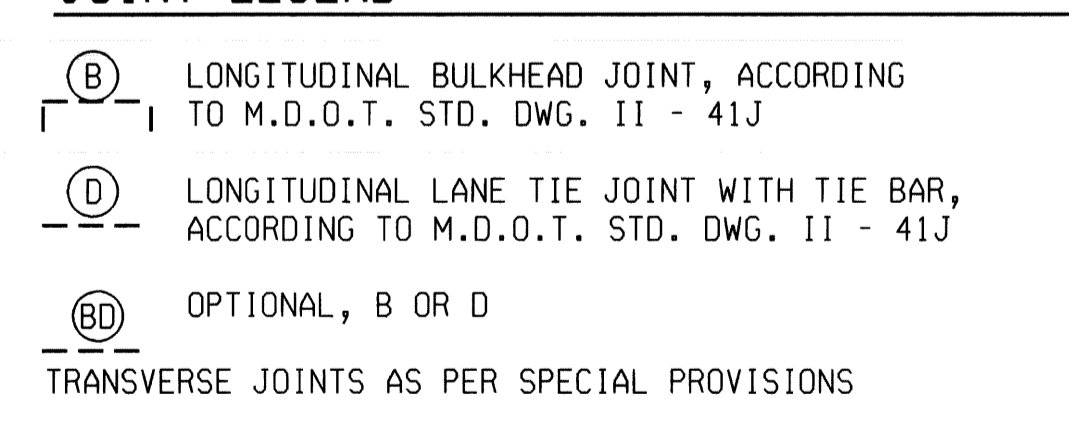
MISCELLANEOUS QUANTITIES			
6310055	FLAG CONTROL	1	LSUM
6230001	MOBILIZATION	1	LSUM
6310054	MINOR TRAFFIC DEVICES	1	LSUM
6220001	FIELD OFFICE	9	MOS

ESTIMATED QUANTITIES FOR USE AT THE DISCRETION OF THE ENGINEER			
2070003	REMOVING CURB	LFT	200
2070011	REMOVING TRACK ENCASUREMENT	CYD	2000
2080021	EMBANKMENT (CIP) GRANULAR MATERIAL CLASS II	CYD	500
2080031	SUBGRADE UNDERCUTTING TYPE II	CYD	500
5140025	ADJUSTING WATER SHUTOFF	CYD	500
5140045	ADJUSTING DRAINAGE STRUCTURE COVER, CASE 1	EACH	25
5140046	ADJUSTING DRAINAGE STRUCTURE COVER, CASE 2	EACH	1
5147001	MISC. SEWER CLEANOUT NON-PARTICIPATING	EACH	1
5147001	MISC. SEWER CLEANOUT NON-PARTICIPATING	LFT	100
5147030	MISC. STRUCTURE COVER	LBS	700
5147050	MISC. CLEANING DRAINAGE STRUCTURE NON-PARTICIPATING	EACH	6
5147050	MISC. RECONSTRUCTING DRAINAGE STRUCTURE, CASE 1	EACH	1
6097001	MISC. CONCRETE CURB, DETAIL "X"	LFT	150
6310086	TEMP PAVEMENT MARKING, TYPE R, 4", YELLOW	LFT	13,800



BITUMINOUS APPLICATION CHART			
ITEM	RATE OF APPLICATION	ESTIMATED THICKNESS	PERFORMANCE GRADE
400047 BITUMINOUS MIXTURE NO. 3C	170 #/SY.	1 1/2 INCHES	PG 58-28
400049 BITUMINOUS MIXTURE NO. 4C	160 #/SY.	1 1/2 INCHES	PG 58-28

BITUMINOUS BOND COAT 0-0.10 GAL./SY. TO RIGID BASES AND 0.05 GAL./SY. TACK COAT BETWEEN LAYERS



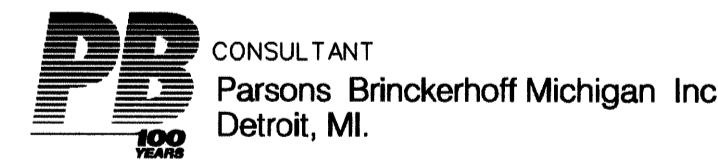
JOINT LEGEND

- (B) LONGITUDINAL BULKHEAD JOINT, ACCORDING TO M.D.O.T. STD. DWG. 11 - 41J
- (D) LONGITUDINAL LANE TIE JOINT WITH TIE BAR, ACCORDING TO M.D.O.T. STD. DWG. 11 - 41J
- (BD) OPTIONAL, B OR D

EARTHWORK LEGEND

- (B) CONCRETE PAVEMENT
- (D) AGGREGATE BASE-CONC. (4" IN PLACE) FILL (21A)
- (BD) GRANULAR MATERIAL CLASS II (SEE NOTE #2)
- (BD) 4" TOPSOIL PLUS CL. A SODDING

- NOTES**
- UNLESS SHOWN AS A SEPARATE - TYPE CURB, THE PROPOSED CURB SHALL BE AN INTEGRAL CURB (SEE DETAIL THIS SHEET) WITH CONCRETE CURB DETAIL "CD" AS AN ALTERNATE. REGARDLESS OF CONSTRUCTION METHOD THE PROPOSED CURB SHALL BE PAID FOR AS "CONCRETE PAV'T. - 9" UNIFORM WITH INTEGRAL CURB".
 - GRANULAR MATERIAL CLASS II WHICH IS USED FOR BACKFILL SHALL BE PAID FOR AS "EMBANKMENT - GRANULAR MATERIAL CLASS II".
 - EDGE DRAIN LOCATION AND DEPTH MAY BE VARIED AS DIRECTED BY THE ENGINEER.



BY	CHECKED BY	APPROVED:
PLAN	CMK/BS	JWF
GRADE		
ESTIMATE	JWF	JWF
FINAL	CHECK	REVIEW

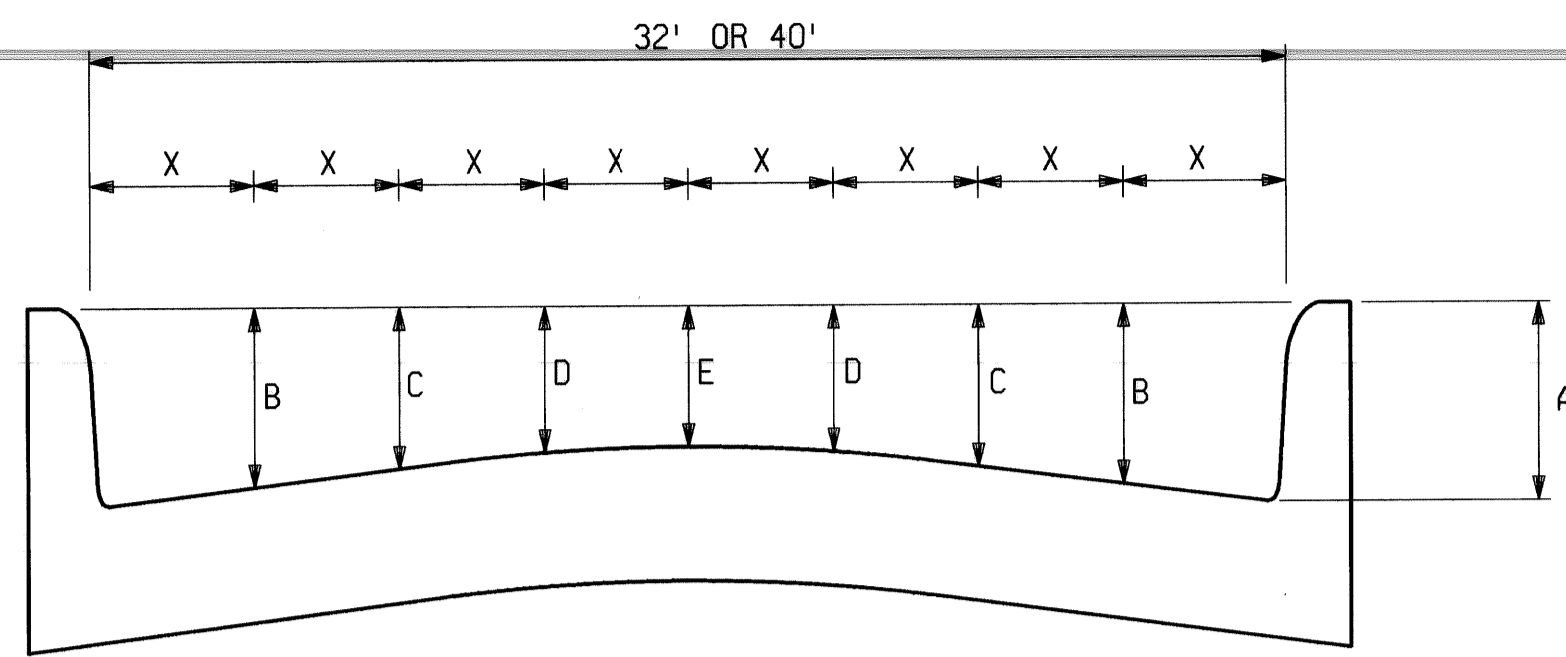
CITY OF DETROIT
 DEPARTMENT OF TRANSPORTATION
 TRANSPORTATION ENGINEERING

RECONSTRUCTION OF CLAY / ST. AUBIN
 FROM NB I-75 (CHRYSLER) SERVICE DRIVE TO SOUTH OF DENTON

TYPICAL CROSS SECTIONS

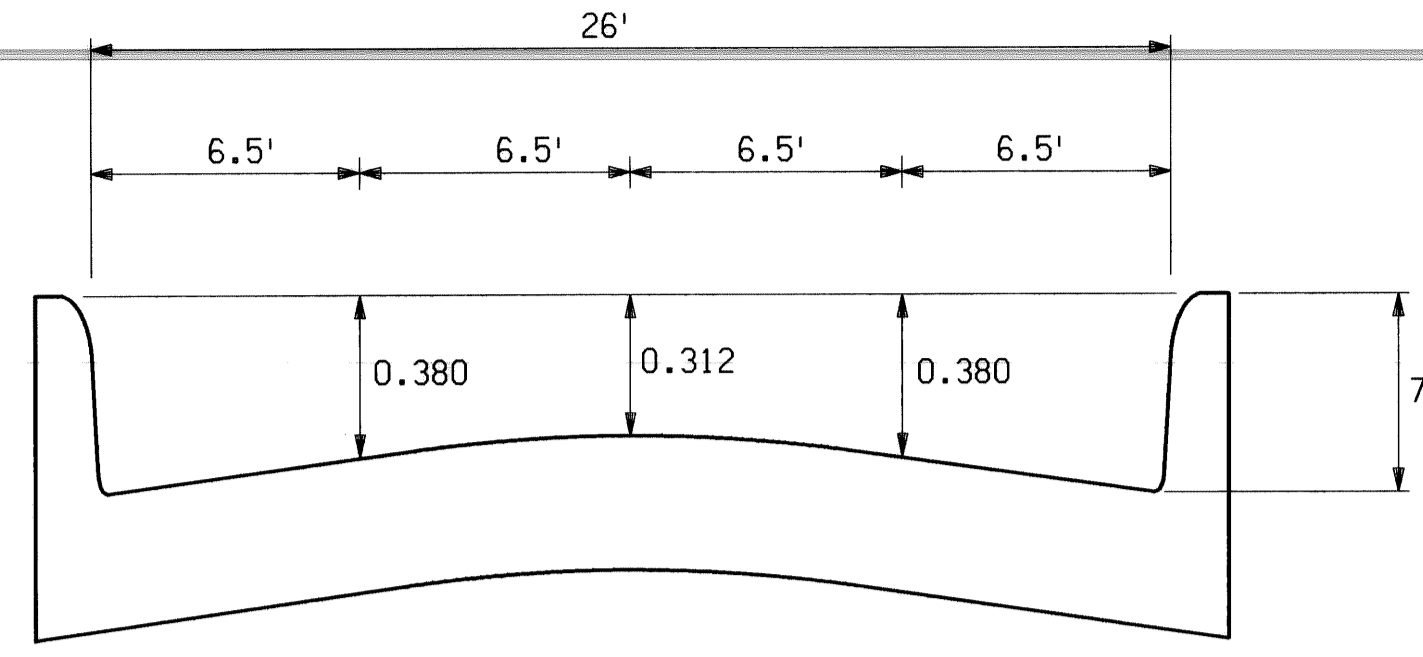
SHEET 2 OF 26 SHEETS
 CONTRACT NO.
 ASSIGNMENT NO.
 DATE APRIL 1998

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**PARABOLIC CROWN
ELEMENTS OF A 32' OR 40' PAVEMENT**

NO SCALE

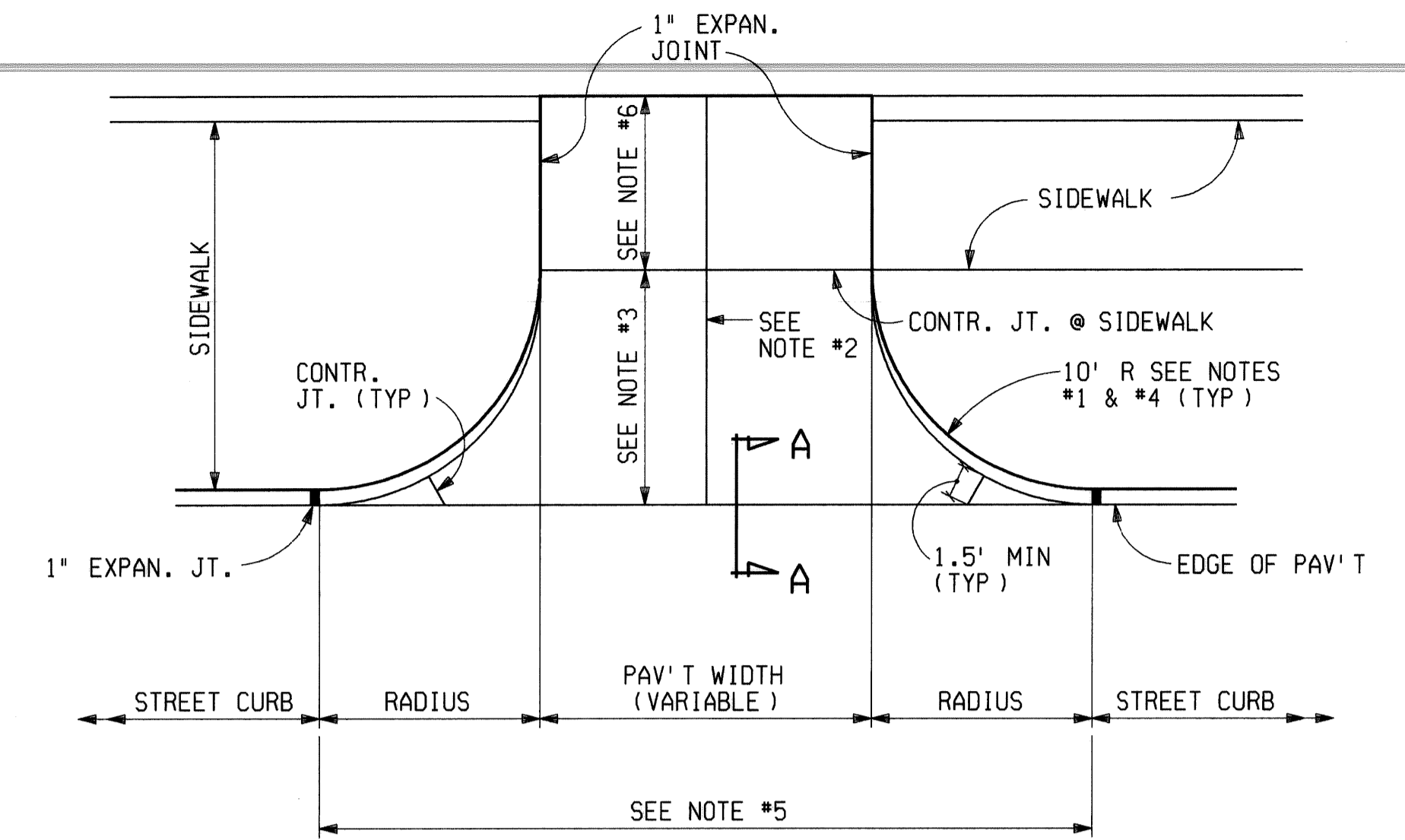


**PARABOLIC CROWN
ELEMENTS OF A 26' PAVEMENT**

NO SCALE

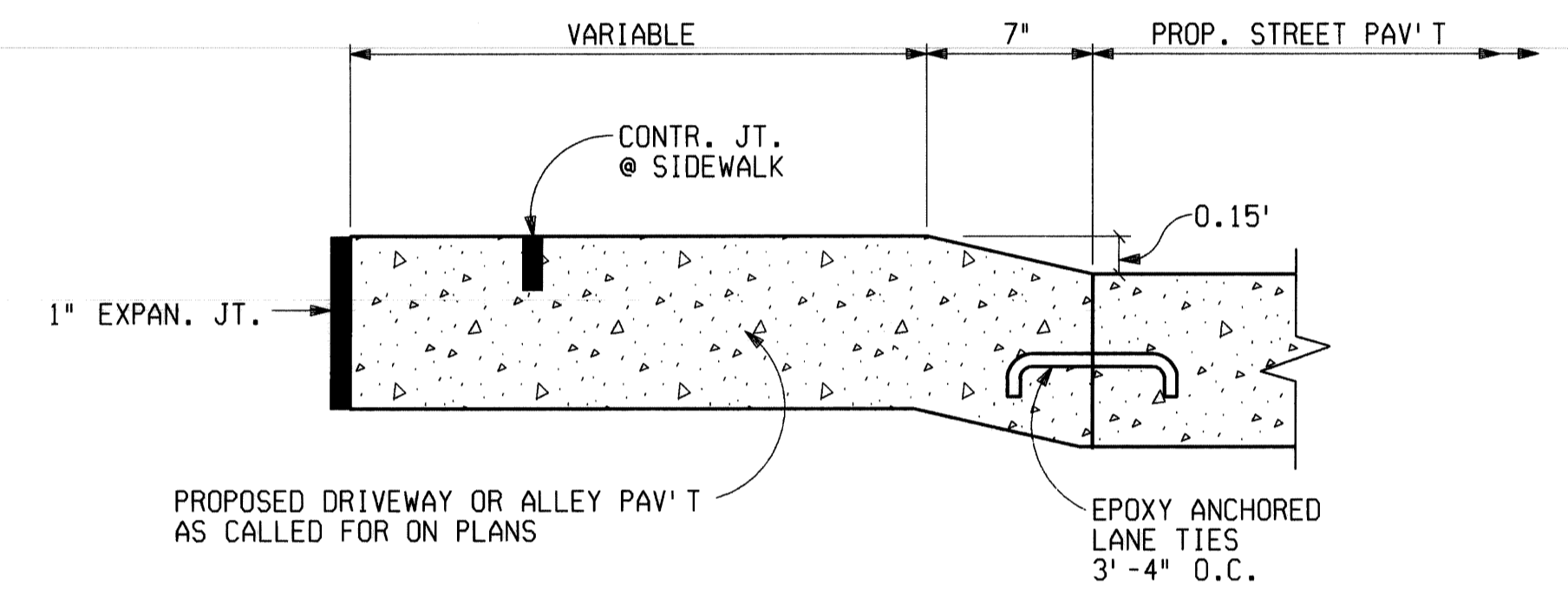
ELEMENTS OF CONCRETE SLAB SECTION							
PAV'T WIDTH	X	CURB HEIGHT	A	B*	C*	D*	E*
32'	4'	7"	0.583	0.438	0.333	0.271	0.250
40'	5'	7"	0.583	0.401	0.271	0.193	0.167

* DISTANCE BELOW TOP OF CURB AT LETTERED POINTS



COMMERCIAL DRIVEWAY OR ALLEY DETAIL

NO SCALE



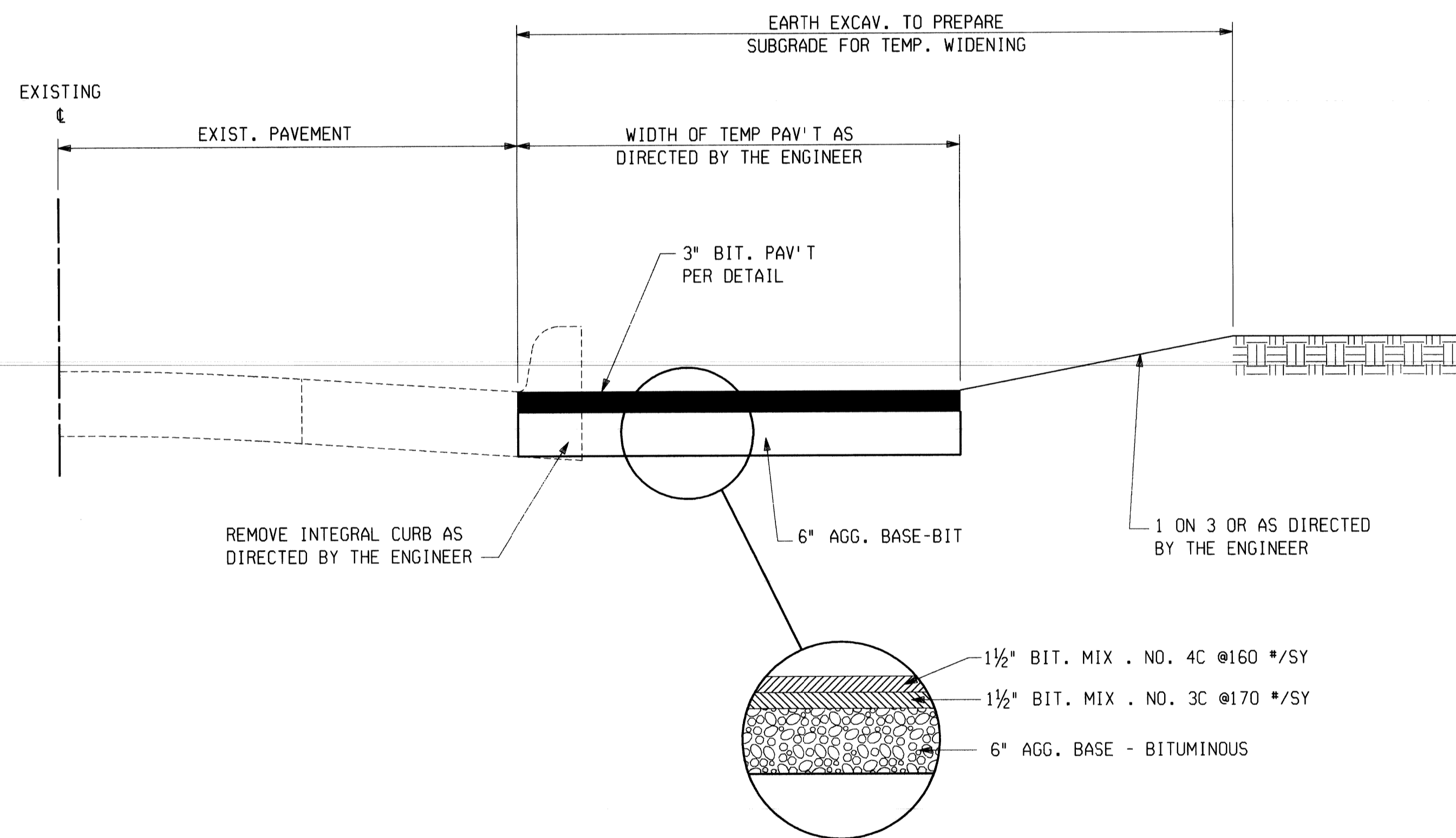
SECTION A-A

NO SCALE

**GENERAL NOTES
COMMERCIAL DRIVEWAYS & ALLEY'S**

1. TRANSITION EDGE OF DRIVEWAY OR ALLEY FROM CURB AT THE STREET TO NO CURB AT THE END OF THE DRIVEWAY OR ALLEY RADIUS.
2. WHERE DRIVEWAY OR ALLEY EXCEEDS 15' IN WIDTH A CONTRACTION JOINT SHALL BE PLACED LONGITUDINALLY ALONG ϕ .
3. WHEN DISTANCE EXCEEDS 15', A TRANSVERSE CONTRACTION JOINT WILL BE REQUIRED.
4. RADIUS 10' UNLESS OTHERWISE DIRECTED BY THE ENGINEER, OR AS SHOWN ON PLANS.
5. ALL WORK AND MATERIALS REQUIRED TO CONSTRUCT THE DRIVEWAY OR ALLEY BETWEEN THE END OF RETURNS WILL BE PAID FOR AS CONCRETE PAVEMENT OF THE SPECIFIED THICKNESS.
6. MINIMUM AND MAXIMUM SLOPES OF $1/4$ "/FT. & $3/4$ "/FT SHALL BE USED IN THE SIDEWALK AREA.

PB CONSULTANT
Parsons Brinckerhoff Michigan Inc.
Detroit, MI.



**TEMPORARY ROAD WIDENING
FOR STAGED CONSTRUCTION
STA. 25+00 RT TO 27+50 RT**

NO SCALE

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DESCRIPTIONS	DR'N	CK'D	AP'D	DATE
REVISIONS				

	BY	CHECKED BY	APPROVED:
PLAN	CMK	JWF	ENGINEER OF STREETS
GRADE	JWF	DPM	
ESTIMATE	JWF	DPM	
FINAL	CHECK	REVIEW	

**CITY OF DETROIT
DEPARTMENT OF TRANSPORTATION
TRANSPORTATION ENGINEERING**

**RECONSTRUCTION OF CLAY / ST. AUBIN
FROM NB I-75 (CHRYSLER) SERVICE DRIVE TO SOUTH OF DENTON**

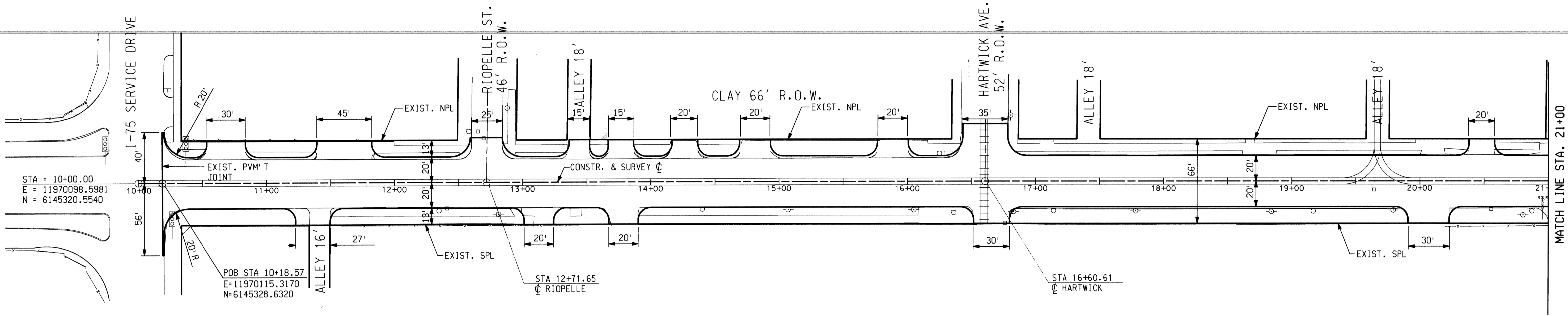
SHEET 3 OF 26 SHEETS

CONTRACT NO.

ASSIGNMENT NO.

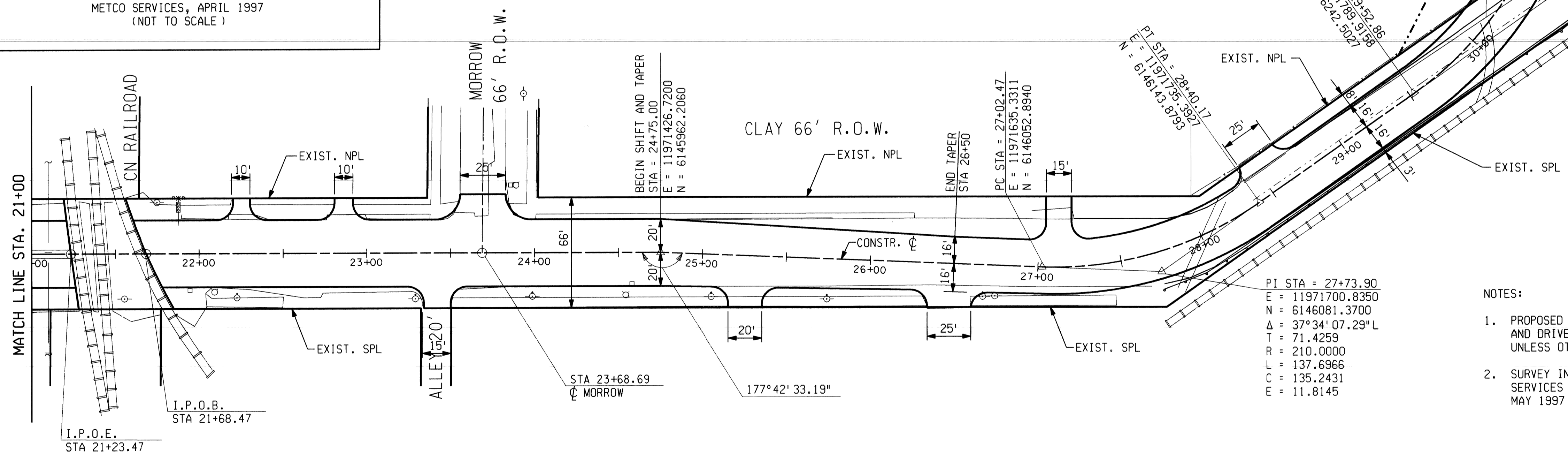
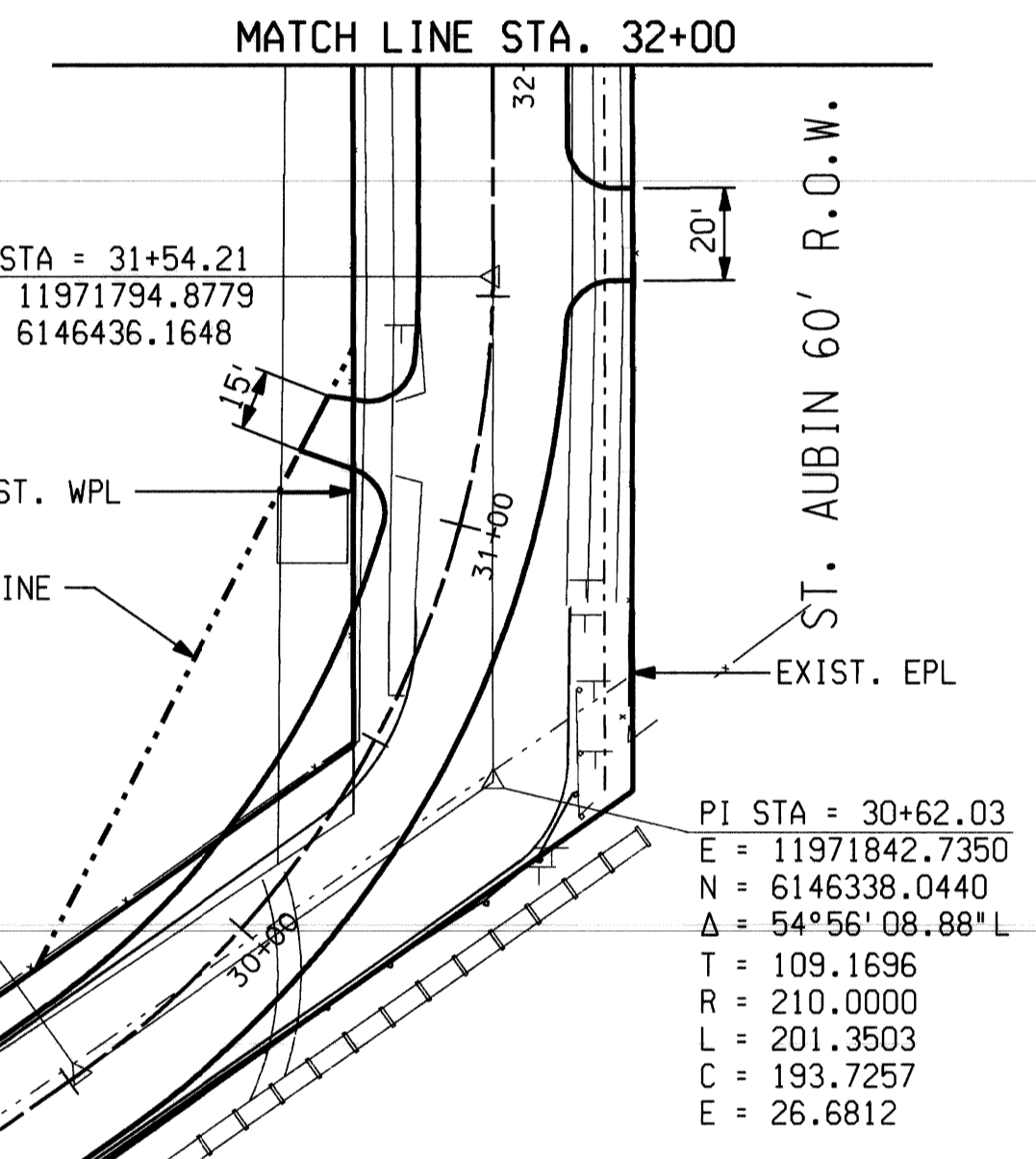
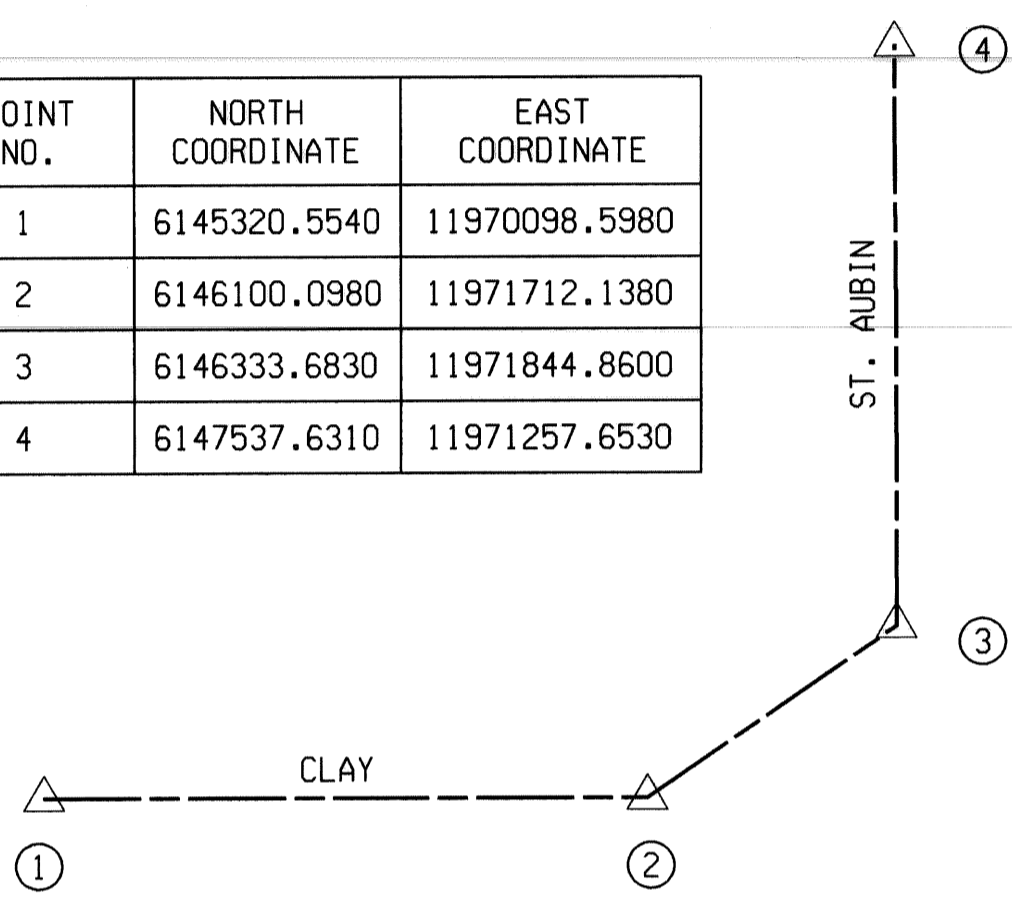
DATE **APRIL 1998**

TYPICAL CROSS SECTIONS



POINT NO.	NORTH COORDINATE	EAST COORDINATE
1	6145320.5540	11970098.5980
2	6146100.0980	11971712.1380
3	6146333.6830	11971844.8600
4	6147537.6310	11971257.6530

PROJECT SURVEY & ALIGNMENT
METCO SERVICES, APRIL 1997
(NOT TO SCALE)



PI STA = 27+73.90
E = 11971700.8350
N = 6146081.3700
Δ = 37°34'07.29°L
T = 71.4259
R = 210.0000
L = 137.6966
C = 135.2431
E = 11.8145

- NOTES:
1. PROPOSED STREET RADIUS ARE TO BE 15 FT AND DRIVEWAY RADIUS ARE TO BE 10 FT. UNLESS OTHERWISE SHOWN
 2. SURVEY INFORMATION PROVIDED BY METCO SERVICES SURVEY NOTES/FIELD DATA DATED MAY 1997

SCALE: 1" = 40'

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DESCRIPTIONS	DR'N	CK'D	AP'D	DATE
REVISIONS				

BY	CHECKED BY	APPROVED:
CMK	JWF	ENGINEER OF STREETS
ESTIMATE	CHECK	REVIEW

CITY OF DETROIT
DEPARTMENT OF TRANSPORTATION
TRANSPORTATION ENGINEERING

RECONSTRUCTION OF CLAY / ST. AUBIN
FROM NB I-75 (CHRYSLER) SERVICE DRIVE TO SOUTH OF DENTON
 ALIGNMENT P.O.B. TO STA 32+00

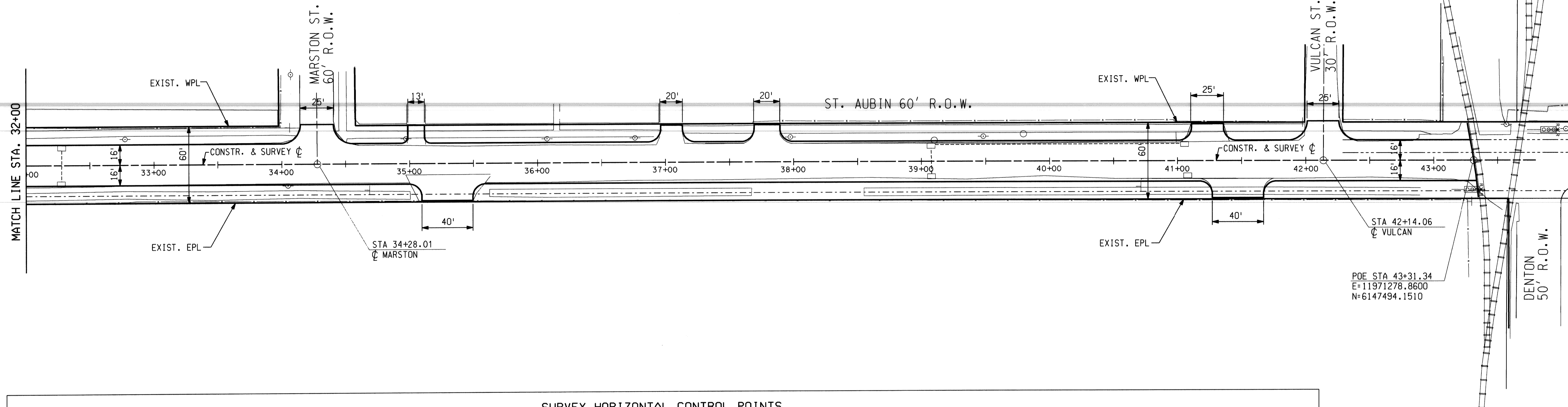
SHEET 4 OF 26 SHEETS
CONTRACT NO.
ASSIGNMENT NO.
DATE APRIL 1998



BM #50 ELEV. = 151.231
TOP CENTER NUT ON HYDRANT ON THE NORTH SIDE OF HOLBROOK AT ST. AUBIN

BM #51 ELEV. = 151.341
TOP CENTER NUT ON HYDRANT BETWEEN 2 CONCRETE BOLLARDS AT THE LOADING DOCK OF THE DETROIT AXLE POST NO. 3 ON THE WEST SIDE OF ST. AUBIN

BM #53 ELEV. = 151.604
P.K. NAIL IN THE EAST FACE OF A UTILITY POLE AT THE SOUTHWEST CORNER OF MARSTON AND ST. AUBIN



SURVEY HORIZONTAL CONTROL POINTS

POINT NO.	EASTING	NORTHING	ST. AUBIN	POINT NO.	EASTING	NORTHING	ST. AUBIN
21	11970224.8386	6149686.2460	SCRIBE IN NW HOLBROOK JUST W OF ST. AUBIN WALK 500' S OF HOLBROOK	31	11969803.4389	6150468.9800	SET SCRIBE N WALK OF POLAND E OF DEQ. 17.15' E OF BUS STOP SIGN 2.35' FROM B/W
22	11970460.8403	6149228.6708	SCRIBE IN E WALK OF ST. AUBIN 26.5' N OF HYD 7' W OF WALL 800' S OF HOLBROOK	32	11969264.7532	6150168.1585	SET PK @ DEQ. 6.35' N OF HYD LINE 42.88' W OF HYD @ SE DEQ & POLAND
23	11970599.1410	6148946.1841	SCRIBE @ NE CORNER ST. AUBIN & FABER 5.75' SW OF BLDG. CORNER	33	11969173.8307	6150293.9092	SET SCRIBE ON W WALK OF DEQ. 5.43' FROM WALL IN LINE WITH ALLEY 13' N OF UTILITY POLE
24	11970829.0771	6148473.2127	SCRIBE IN E WALK ST. AUBIN 1.83' FROM B/W 52.65' SE OF HYD. 50.82' S OF NO STANDING SIGN	34	11968998.6355	6150658.4087	SET PK @ NW CORNER DEQ. & EDWIN 7.47' SW OF L. POLE 3' FROM B/W
25	11971063.9084	6147991.4252	SCRIBE IN E WALK OF ST. AUBIN IN FRONT OF 8490 UAW LOCAL 262 1.85' FROM B/W	35	11968827.0827	6151018.0857	SET PK @ NW CORNER DEQ. & DYAR IN ASPH. 13.62' SE OF HOUSE CORNER 17.66' W OF STORM M.H.
26	11971287.8103	6147518.2455	PK IN ASPH. @ DENTON BTN. RR TRACK 25.95 NW OF RR SIGNAL LIGHT 47' W OF UTILITY POLE	36	11968757.6013	6151155.9657	SET SCRIBE @ OF YEMANS 1" W WALK OF DEQ. 2.20' FROM B/W 6.97' SW OF LIGHT POLE
27	11971508.3949	6147079.3779	SET SCRIBE IN E WALK OF ST. AUBIN WALK TEMP ENDS 2' FROM B/W 3.2' FROM N OF END				
28	11971705.6542	6146675.5151	SET SCRIBE IN E WALK OF ST. AUBIN @ SOUTH SIDE OF MARSTON 1.8' TO B/W 8.45' E OF UTILITY POLE				
29	11971890.0809	6146295.5889	SET IRON RED CAP 17.20' S OF RAIL 30.60' W OF 3" FACE OF PIPE 4' HIGH				
30	11971647.6576	6146034.8488	SET SCRIBE @ DET. EDISON M.H. ON S WALK OF CLAY 50' ± W OF I-75 SIGN CLAY	4050	11970649.9913	6145616.7092	SET SCRIBE N WALK @ NW CORNER OF HARTWICK AND CLAY
				4049	11971338.4809	6145884.6087	SET SCRIBE IN WALK ON S SIDE OF CLAY @ MORROW

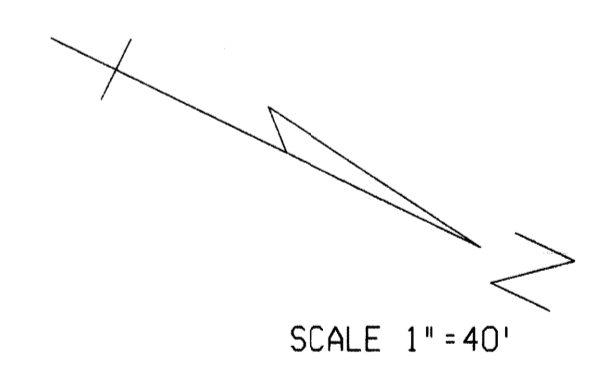
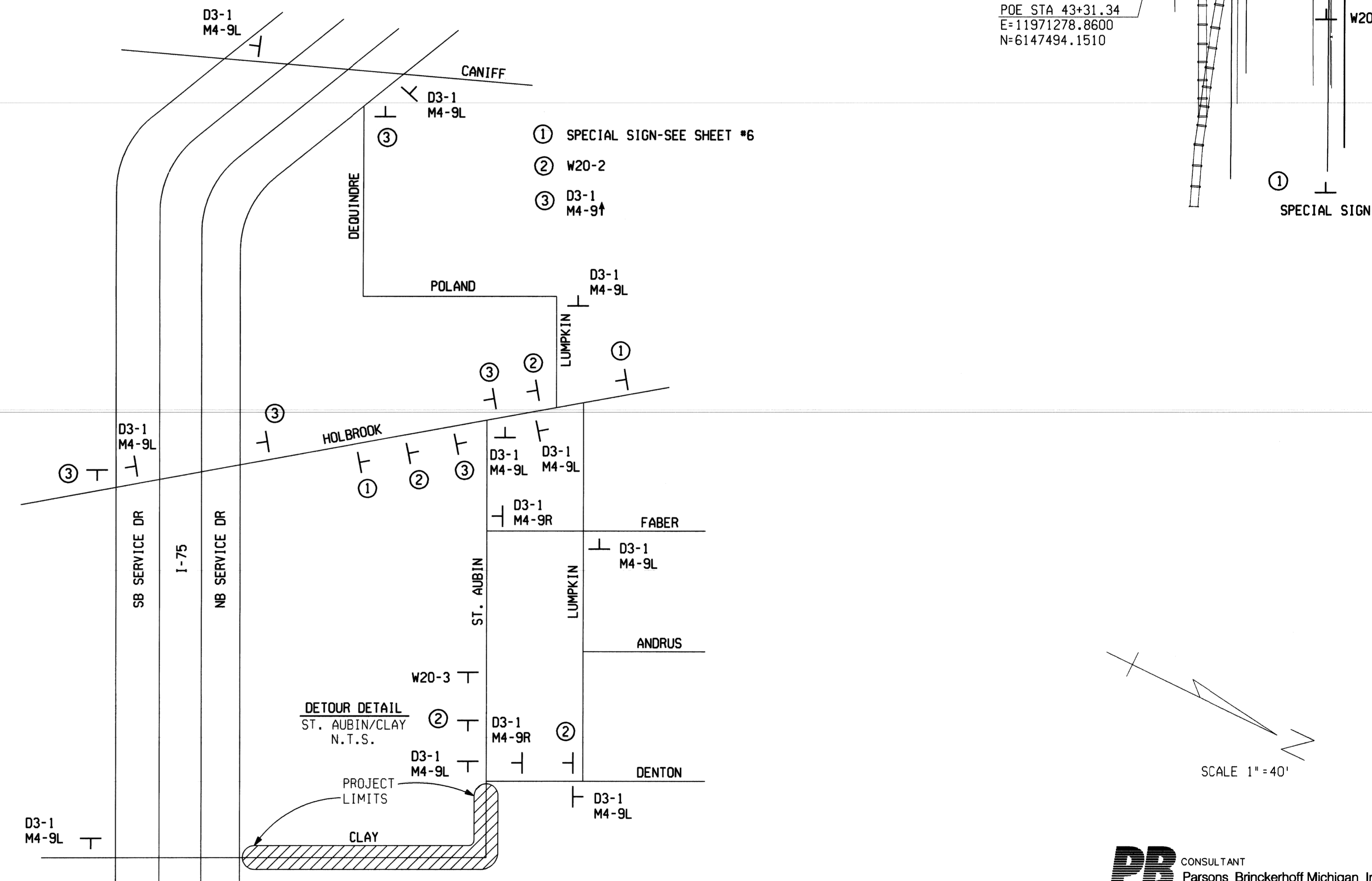
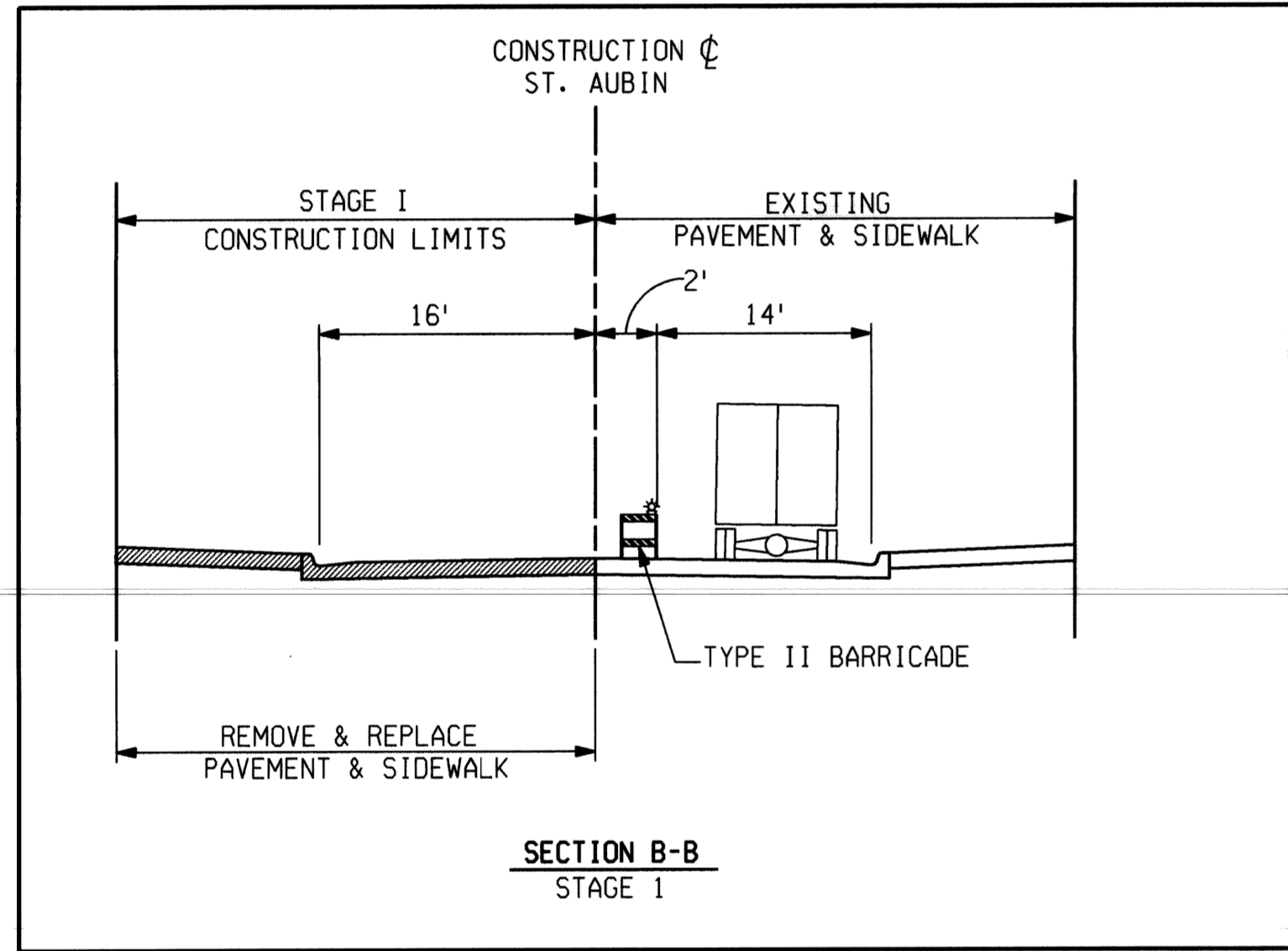
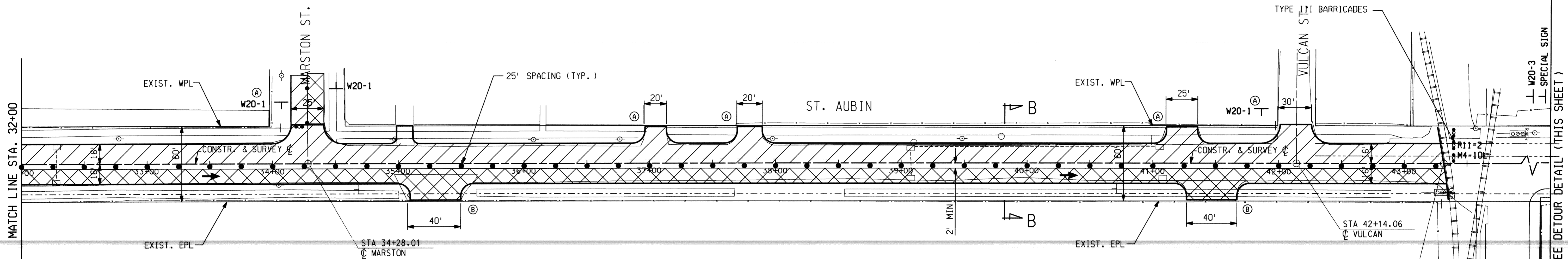
NOTES:

- PROPOSED STREET RADII ARE TO BE 15 FT AND DRIVEWAY RADII ARE TO BE 10 FT. UNLESS OTHERWISE SHOWN
- SURVEY INFORMATION PROVIDED BY METCO SERVICES SURVEY NOTES/FIELD DATA DATED MAY 1997

PB CONSULTANT
Parsons Brinckerhoff Michigan Inc.
Detroit, MI.

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PLAN GRADE ESTIMATE FINAL		BY CMK	CHECKED BY JWF	APPROVED: ENGINEER OF STREETS	CITY OF DETROIT DEPARTMENT OF TRANSPORTATION TRANSPORTATION ENGINEERING	RECONSTRUCTION OF CLAY / ST. AUBIN FROM NB I-75 (CHRYSLER) SERVICE DRIVE TO SOUTH OF DENTON ALIGNMENT STA 32+00 TO POE	SHEET 5 OF 26 SHEETS
DESCRIPTIONS REVISIONS		DR'N CK'D AP'VD DATE	CHECK REVIEW	CONTRACT NO. ASSIGNMENT NO. DATE APRIL 1998			



PB CONSULTANT
 Parsons Brinckerhoff Michigan Inc.
 Detroit, MI.

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NO.	DESCRIPTIONS	DR'N	CK'D	AP'VD	DATE
REVISIONS					
	PLAN	BY	CHECKED BY	APPROVED:	
	GRADE	CMK	JWF/DPM	ENGINEER OF STREETS	
	ESTIMATE	JWF	DPM		
	FINAL	CHECK	REVIEW		

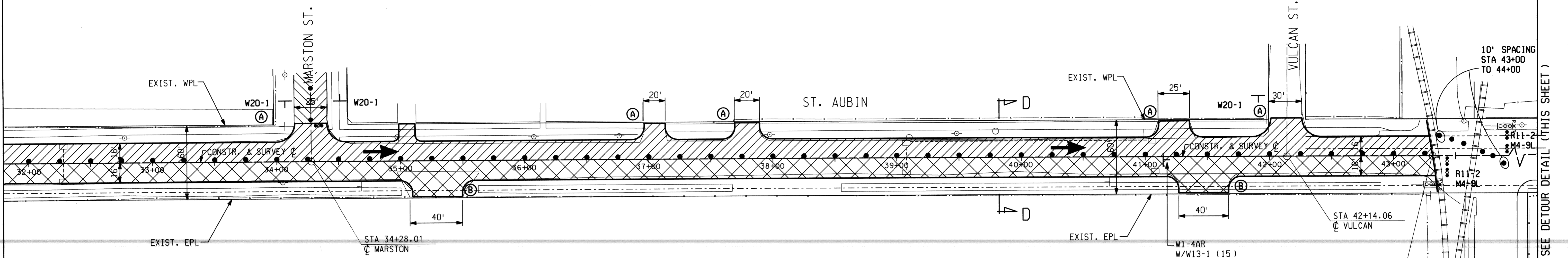
CITY OF DETROIT
 DEPARTMENT OF TRANSPORTATION
 TRANSPORTATION ENGINEERING

RECONSTRUCTION OF CLAY / ST. AUBIN
FROM NB I-75 (CHRYSLER) SERVICE DRIVE TO SOUTH OF DENTON

CONSTRUCTION SEQUENCE-STAGE I/SHEET 2

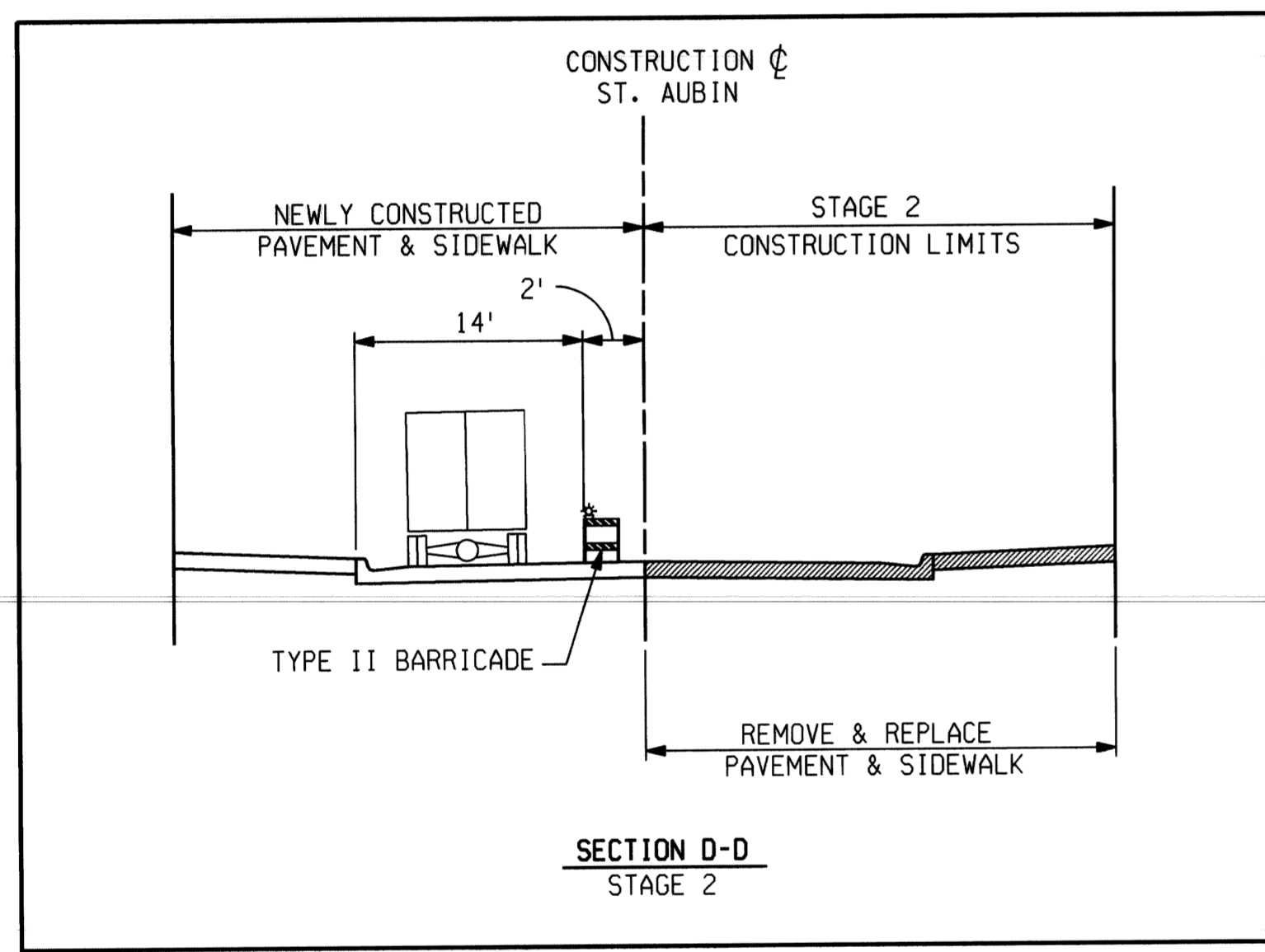
SHEET 7 OF 26 SHEETS
CONTRACT NO.
ASSIGNMENT NO.
DATE APRIL 1998

MATCH LINE STA. 22+00

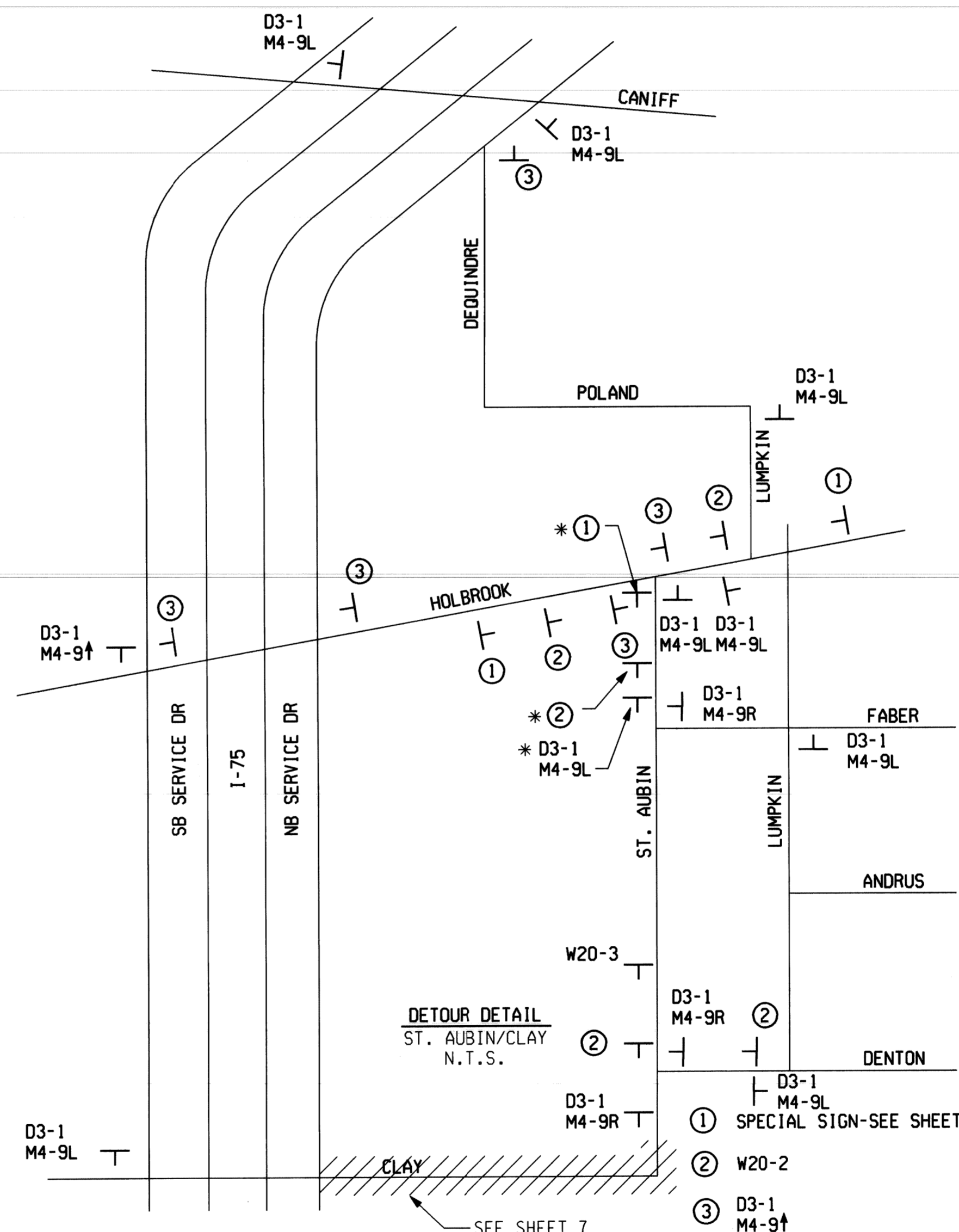


SEE DETOUR DETAIL (THIS SHEET)

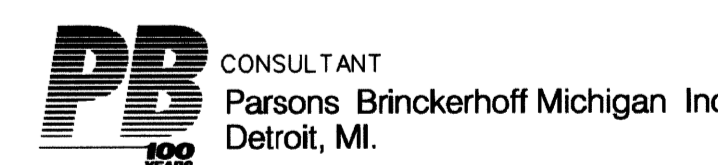
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SECTION D-D
STAGE 2



- NOTES:
- DETOUR SIGNING FOR ST. AUBIN/CLAY REMAINS IN PLACE. SEE STAGE 1 SHEET 2
 - * THESE SIGNS ARE IN ADDITION TO STAGE 1 SIGNAGE FOR DETOUR.



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BY	CMK	CHECKED BY	JWF/DPM	APPROVED:	
PLAN				ENGINEER OF STREETS	
GRADE					
ESTIMATE	JWF	DPM			
FINAL	CHECK	REVIEW			

CITY OF DETROIT
DEPARTMENT OF TRANSPORTATION
TRANSPORTATION ENGINEERING

RECONSTRUCTION OF CLAY / ST. AUBIN
FROM NB I-75 (CHRYSLER) SERVICE DRIVE TO SOUTH OF DENTON

CONSTRUCTION SEQUENCE-STAGE II/SHEET 2

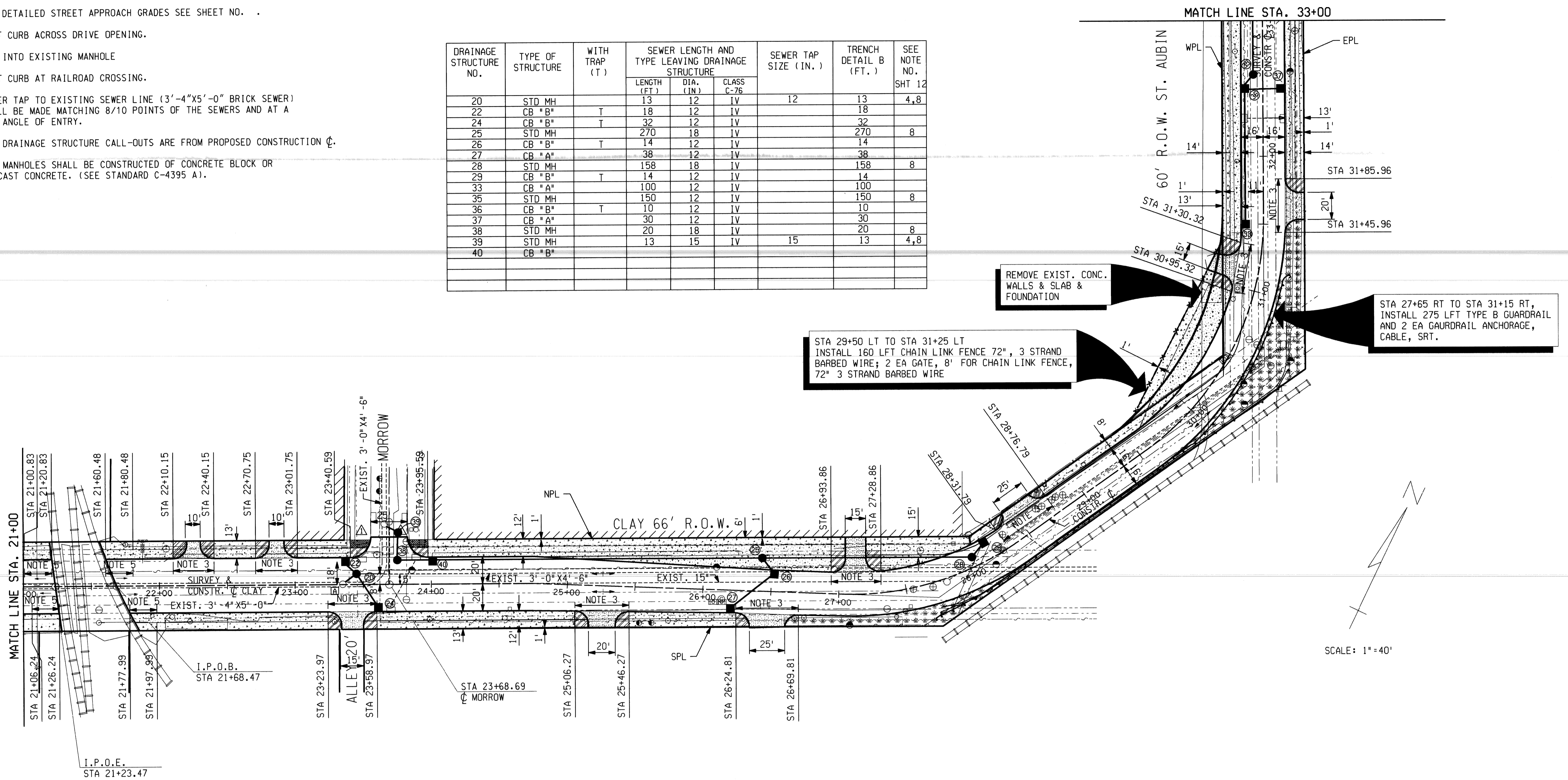
SHEET 9 OF 26 SHEETS
CONTRACT NO.
ASSIGNMENT NO.
DATE APRIL 1998

DESCRIPTIONS	DR'N	CK'D	AP'VD	DATE
REVISIONS				

NOTES:

- FOR TYPICAL SECTIONS SEE SHEETS AND .
- FOR DETAILED STREET APPROACH GRADES SEE SHEET NO. .
- OMIT CURB ACROSS DRIVE OPENING.
- TAP INTO EXISTING MANHOLE
- OMIT CURB AT RAILROAD CROSSING.
- SEWER TAP TO EXISTING SEWER LINE (3'-4"x5'-0" BRICK SEWER) SHALL BE MADE MATCHING 8/10 POINTS OF THE SEWERS AND AT A 45° ANGLE OF ENTRY.
- ALL DRAINAGE STRUCTURE CALL-OUTS ARE FROM PROPOSED CONSTRUCTION C.
- ALL MANHOLES SHALL BE CONSTRUCTED OF CONCRETE BLOCK OR PRECAST CONCRETE. (SEE STANDARD C-4395 A).

DRAINAGE STRUCTURE NO.	TYPE OF STRUCTURE	WITH TRAP (T)	SEWER LENGTH AND TYPE LEAVING DRAINAGE STRUCTURE			SEWER TAP SIZE (IN.)	TRENCH DETAIL B (FT.)	SEE NOTE NO. SHT 12
			LENGTH (FT.)	DIA. (IN.)	CLASS C-76			
20	STD MH		13	12	IV	12	13	4,8
22	CB "B"	T	18	12	IV		18	
24	CB "B"	T	32	12	IV		32	
25	STD MH		270	18	IV		270	8
26	CB "B"	T	14	12	IV		14	
27	CB "A"		38	12	IV		38	
28	STD MH		158	18	IV		158	8
29	CB "B"	T	14	12	IV		14	
33	CB "A"		100	12	IV		100	
35	STD MH		150	12	IV		150	8
36	CB "B"	T	10	12	IV		10	
37	CB "A"		30	12	IV		30	
38	STD MH		20	18	IV		20	8
39	STD MH		13	15	IV	15	13	4,8
40	CB "B"							



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REVISIONS				

BY	CHECKED BY	APPROVED:
CMK	JWF / DPM	ENGINEER OF STREETS

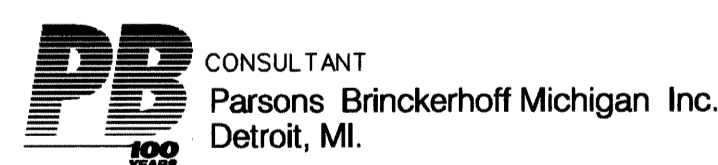
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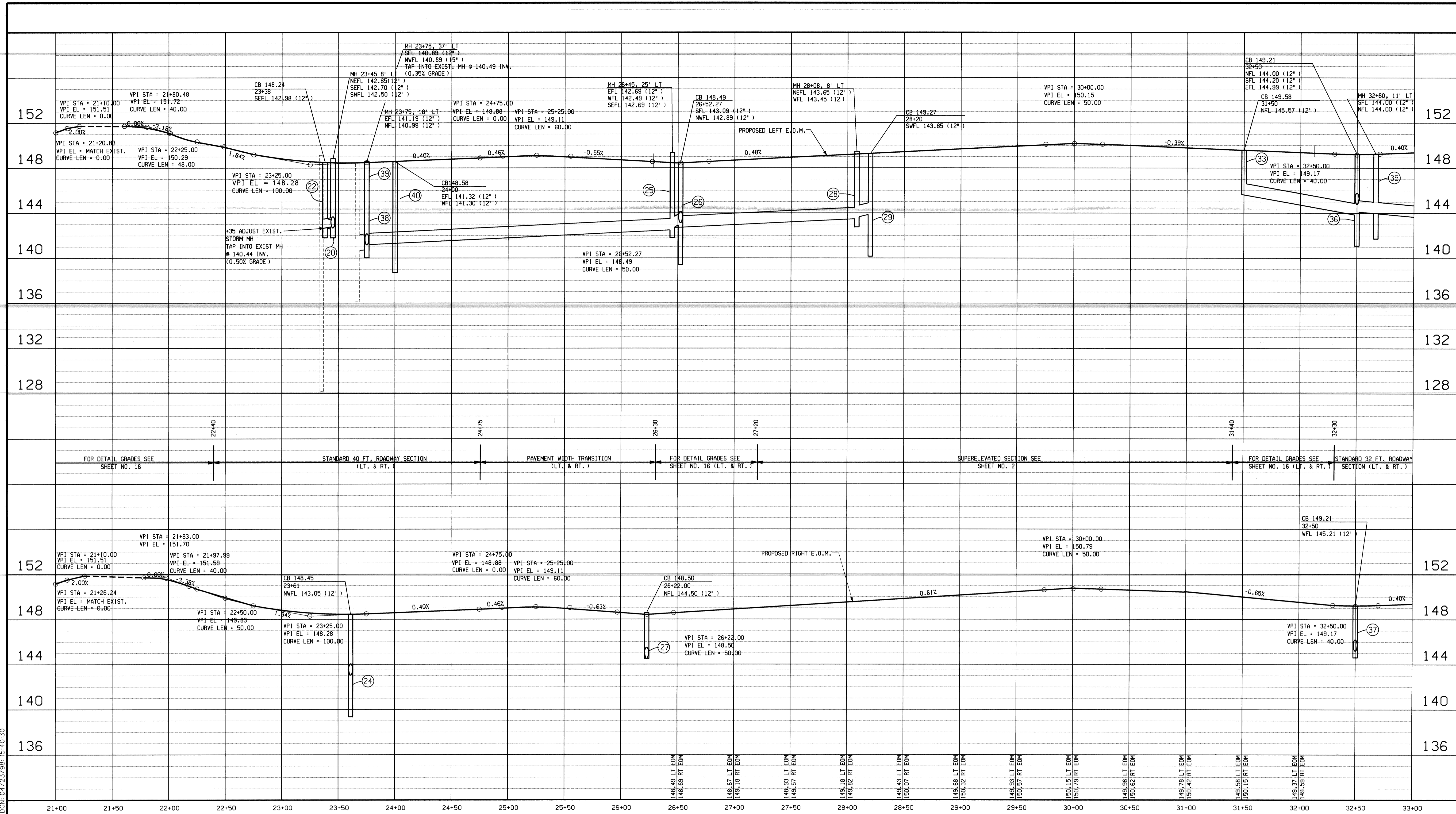
CITY OF DETROIT
DEPARTMENT OF TRANSPORTATION
TRANSPORTATION ENGINEERING

RECONSTRUCTION OF CLAY / ST. AUBIN
FROM NB I-75 (CHRYSLER) SERVICE DRIVE TO SOUTH OF DENTON

PAVING PLAN STA 21+00 TO STA 33+00

SHEET 12 OF 26 SHEETS
 CONTRACT NO.
 ASSIGNMENT NO.
 DATE **APRIL 1998**





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NO.	DESCRIPTIONS	DR'N	CK'D	AP'VD	DATE

BY	CHECKED BY	APPROVED:
CMK	JWF/DPM	ENGINEER OF STREETS
CMK	JWF/DPM	
JWF	DPM	
CHECK	REVIEW	

PLAN	GRADE	ESTIMATE	FINAL

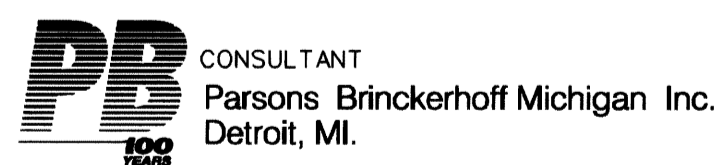
CITY OF DETROIT
 CITY ENGINEERING DIVISION - D.P.W.
 BUREAU OF STREETS AND HIGHWAYS

RECONSTRUCTION OF CLAY / ST. AUBIN
 FROM NB I-75 (CHRYSLER) SERVICE DRIVE TO EUCLID

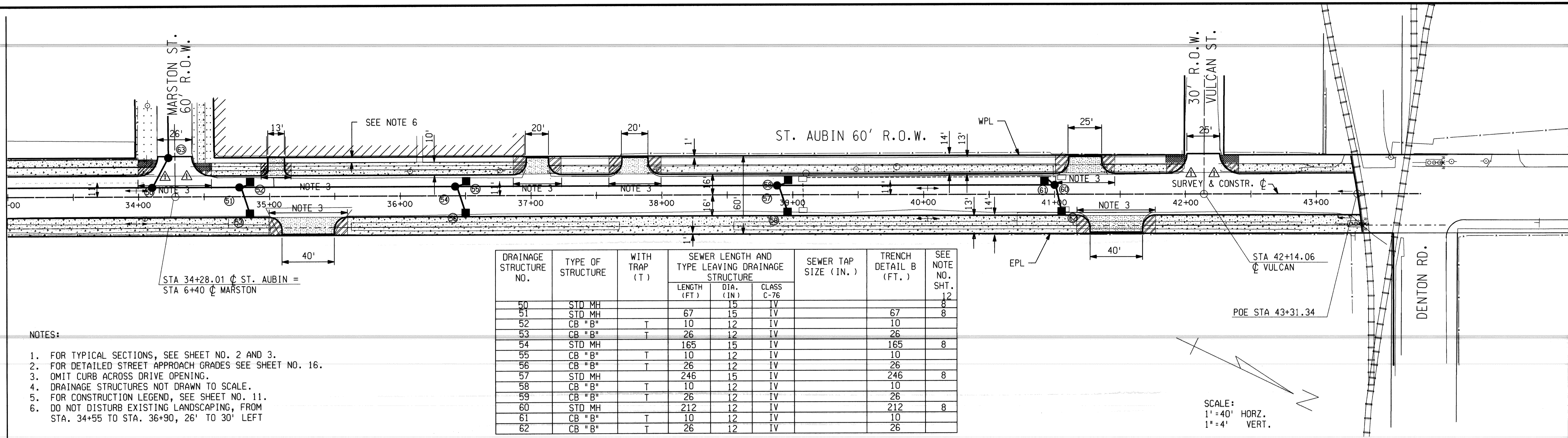
PAVING PROFILE - STA 21+00 TO STA 33+00

SHEET 13 OF 26 SHEETS
 CONTRACT NO.
 ASSIGNMENT NO.
 DATE APRIL 1998

SCALE:
 1" = 40' HORZ.
 1" = 4' VERT.



MATCH LINE STA. 33+00

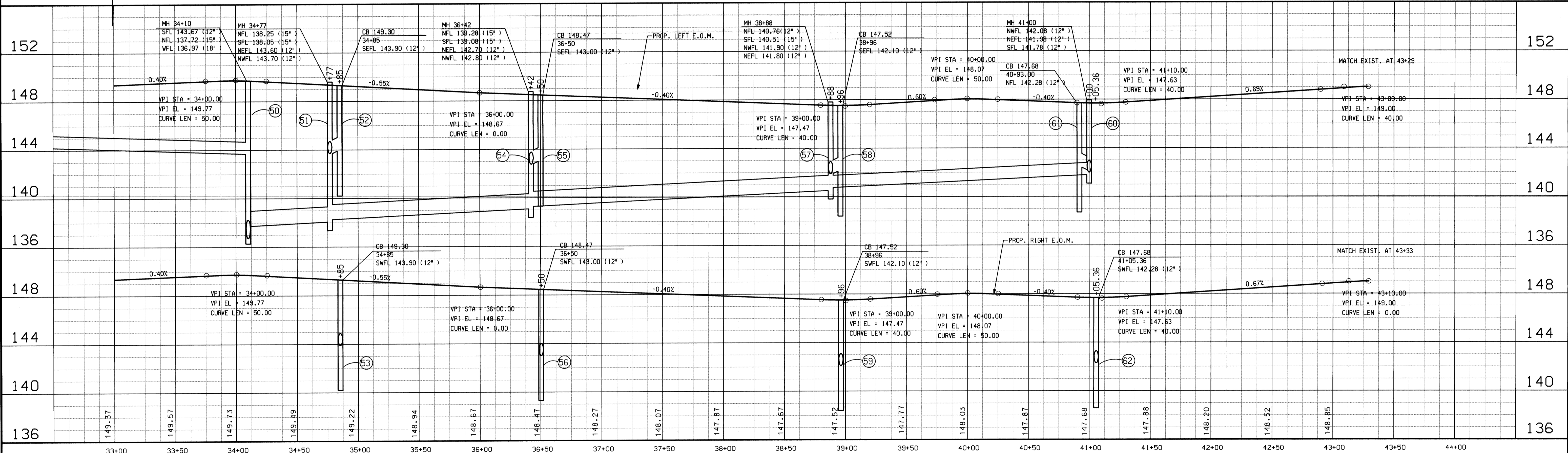


NOTES:

1. FOR TYPICAL SECTIONS, SEE SHEET NO. 2 AND 3.
2. FOR DETAILED STREET APPROACH GRADES SEE SHEET NO. 16.
3. OMIT CURB ACROSS DRIVE OPENING.
4. DRAINAGE STRUCTURES NOT DRAWN TO SCALE.
5. FOR CONSTRUCTION LEGEND, SEE SHEET NO. 11.
6. DO NOT DISTURB EXISTING LANDSCAPING, FROM STA. 34+55 TO STA. 36+90, 26' TO 30' LEFT

DRAINAGE STRUCTURE NO.	TYPE OF STRUCTURE	WITH TRAP (T)	SEWER LENGTH AND TYPE LEAVING DRAINAGE STRUCTURE			SEWER TAP SIZE (IN.)	TRENCH DETAIL B (FT.)	SEE NOTE NO. SHT.
			LENGTH (FT)	DIA. (IN.)	CLASS C-76			
50	STD MH		15	15	IV		8	
51	STD MH		67	15	IV	67	8	
52	CB "B"	T	10	12	IV	10		
53	CB "B"	T	26	12	IV	26		
54	STD MH		165	15	IV	165	8	
55	CB "B"	T	10	12	IV	10		
56	CB "B"	T	26	12	IV	26		
57	STD MH		246	15	IV	246	8	
58	CB "B"	T	10	12	IV	10		
59	CB "B"	T	26	12	IV	26		
60	STD MH		212	12	IV	212	8	
61	CB "B"	T	10	12	IV	10		
62	CB "B"	T	26	12	IV	26		

SCALE:
1" = 40' HORZ.
1" = 4' VERT.



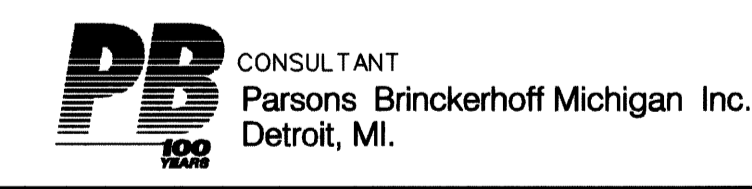
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DESCRIPTIONS	DR'N	CK'D	AP'VD	DATE
REVISIONS				

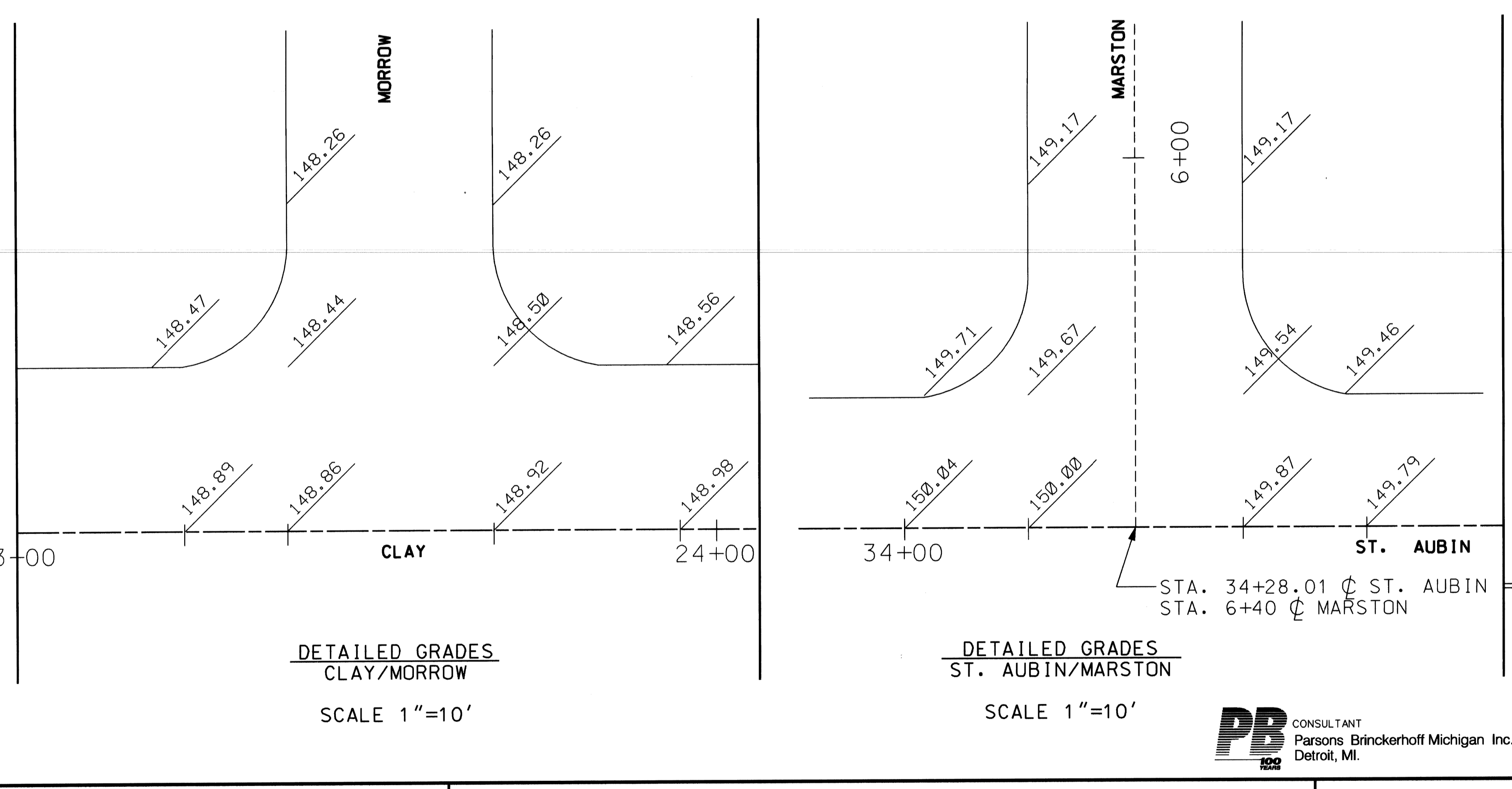
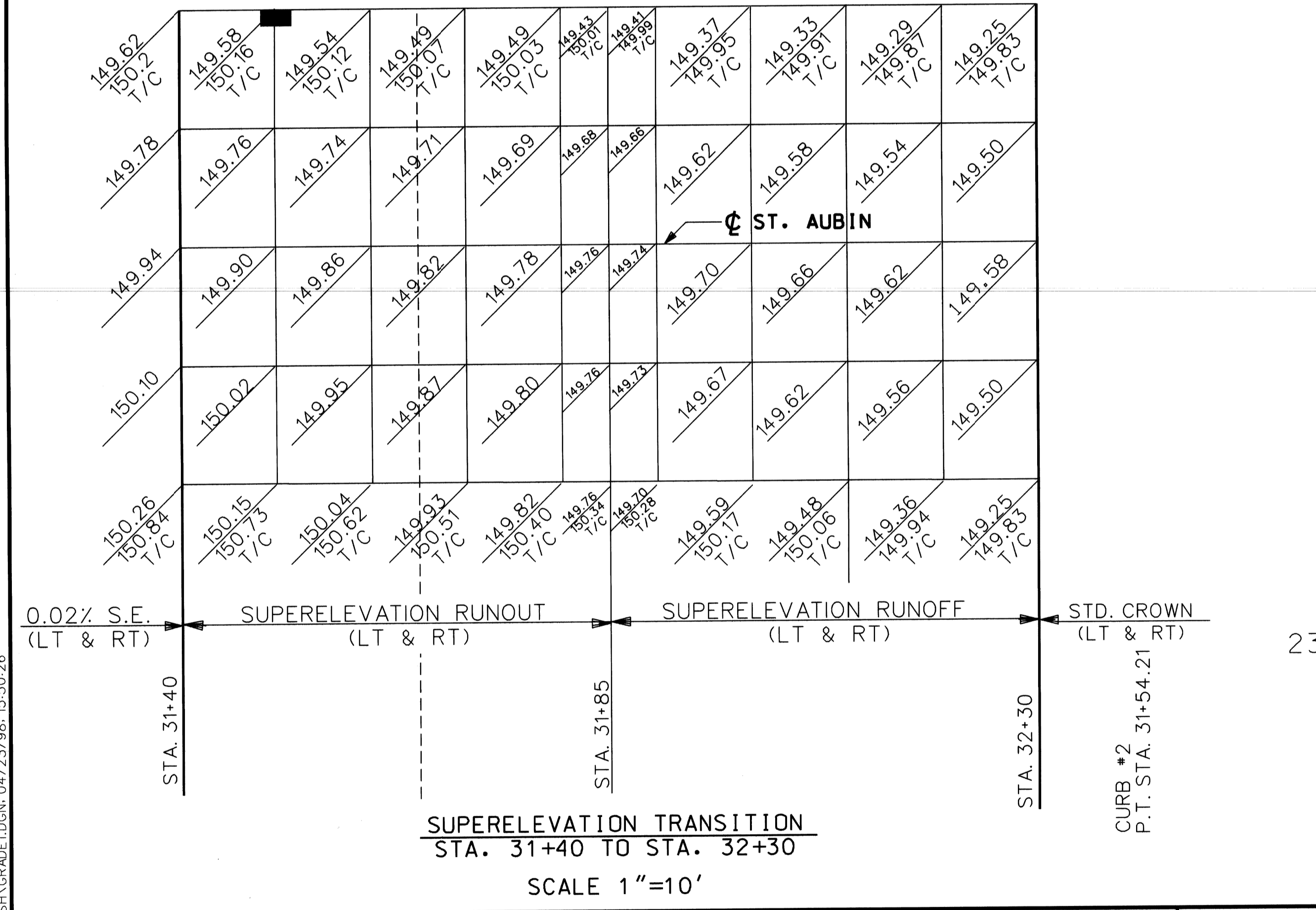
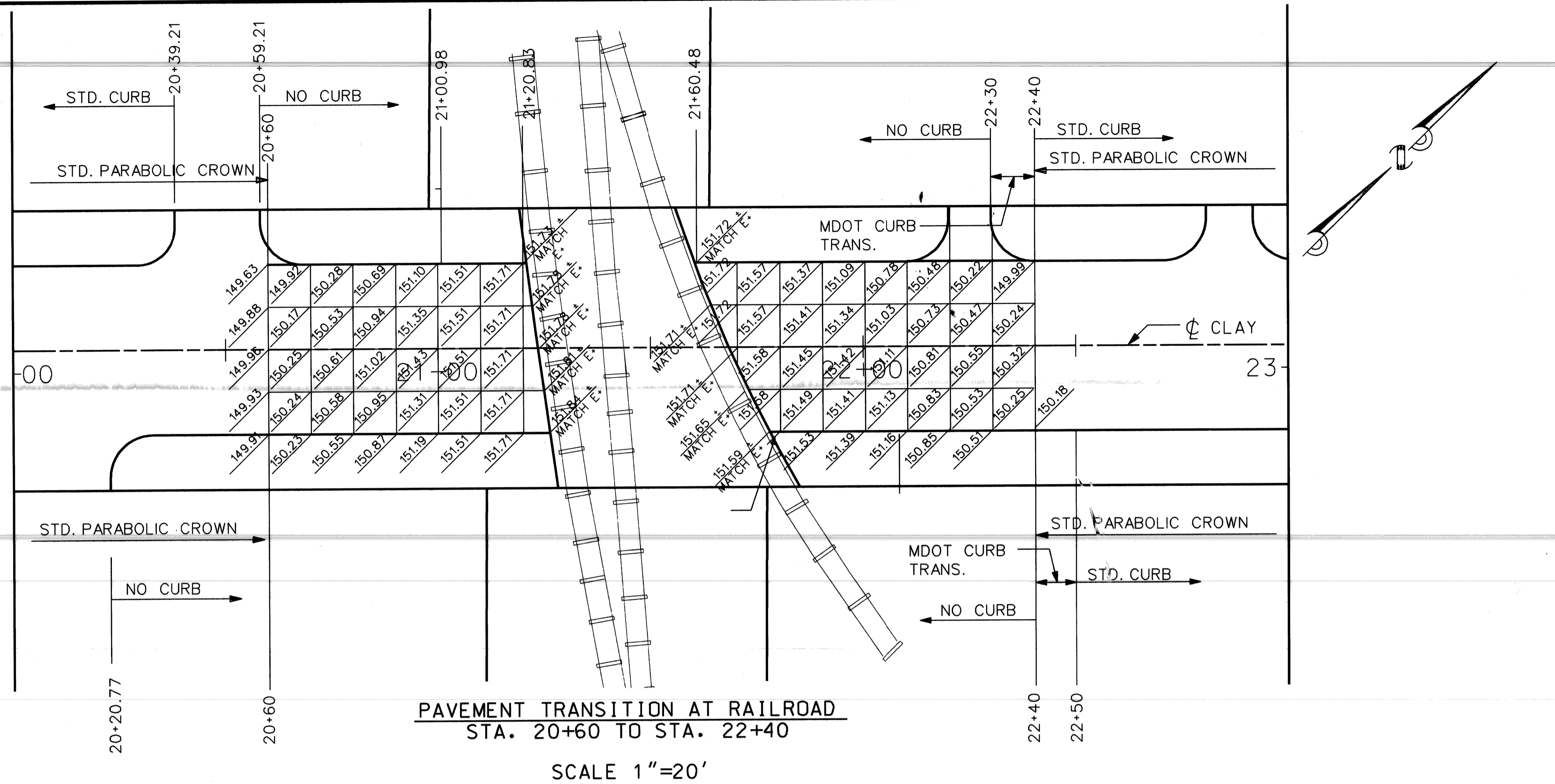
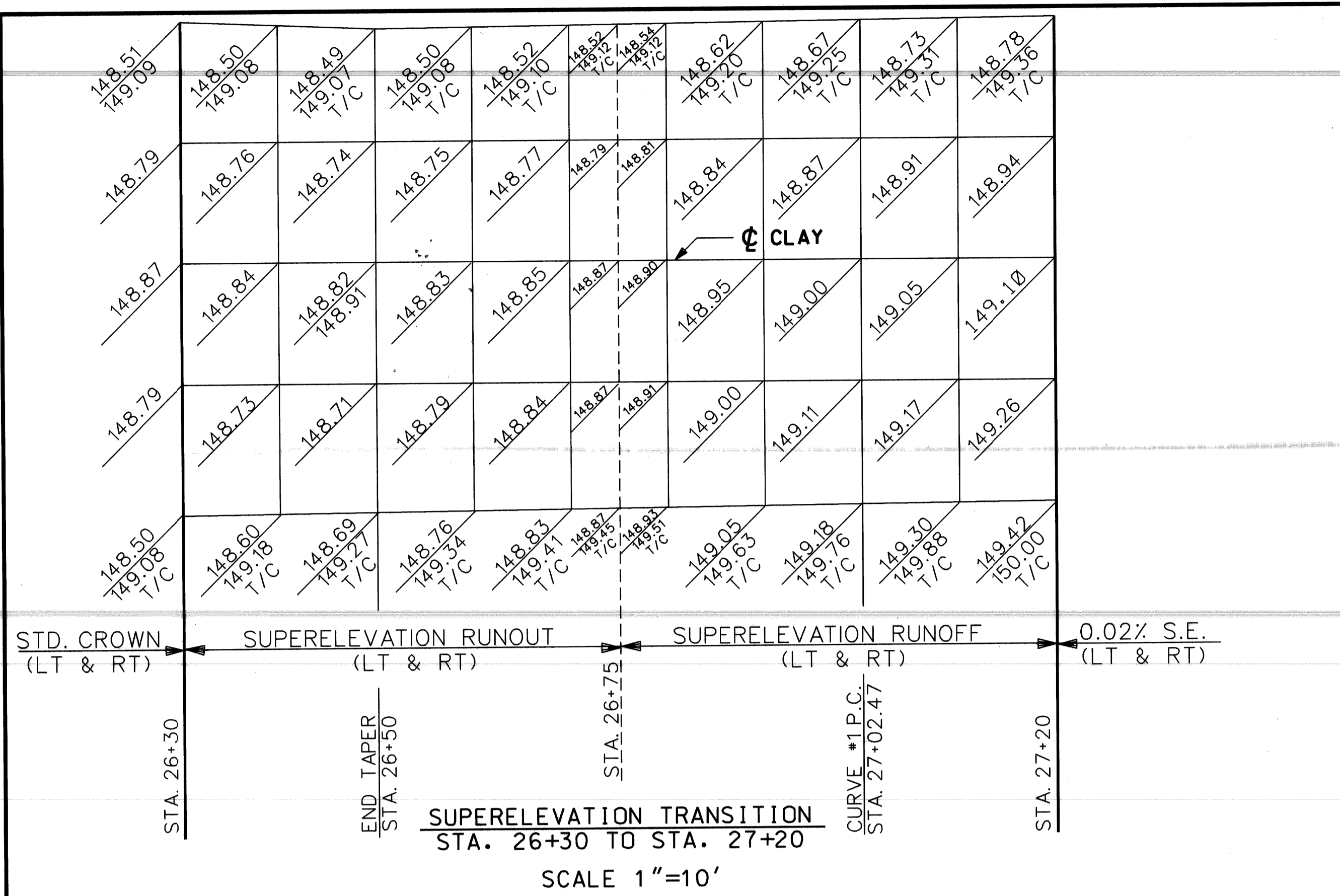
BY	CHECKED BY	APPROVED:
CMK	JWF/DPM	ENGINEER OF STREETS
JWF	DPM	
JWF	DPM	
CHECK	REVIEW	

CITY OF DETROIT
DEPARTMENT OF TRANSPORTATION
TRANSPORTATION ENGINEERING

RECONSTRUCTION OF CLAY / ST. AUBIN
FROM NB I-75 (CHRYSLER) SERVICE DRIVE TO SOUTH OF DENTON
 PAVING PLAN AND PROFILES - STA. 33+00 TO P.O.E.



SHEET 14 OF 26 SHEETS
CONTRACT NO.
ASSIGNMENT NO.
DATE APRIL 1998



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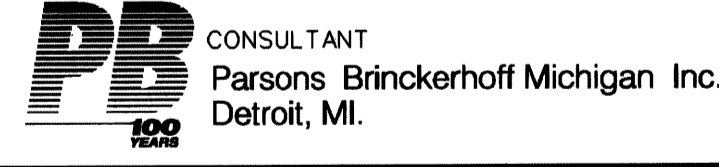
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PLAN	SB	JWF	DPM	ENGINEER OF STREETS
GRADE	JWF	DPM		
ESTIMATE				
DESCRIPTIONS	DR'N	CK'D	AP'VD	DATE
REVISIONS				
FINAL	CHECK	REVIEW		

CITY OF DETROIT
DEPARTMENT OF TRANSPORTATION
TRANSPORTATION ENGINEERING

RECONSTRUCTION OF CLAY / ST. AUBIN
FROM NB I-75 (CHRYSLER) SERVICE DRIVE TO SOUTH OF DENTON

DETAILED GRADES

SHEET 16 OF 26 SHEETS
CONTRACT NO.
ASSIGNMENT NO.
DATE APRIL 1998

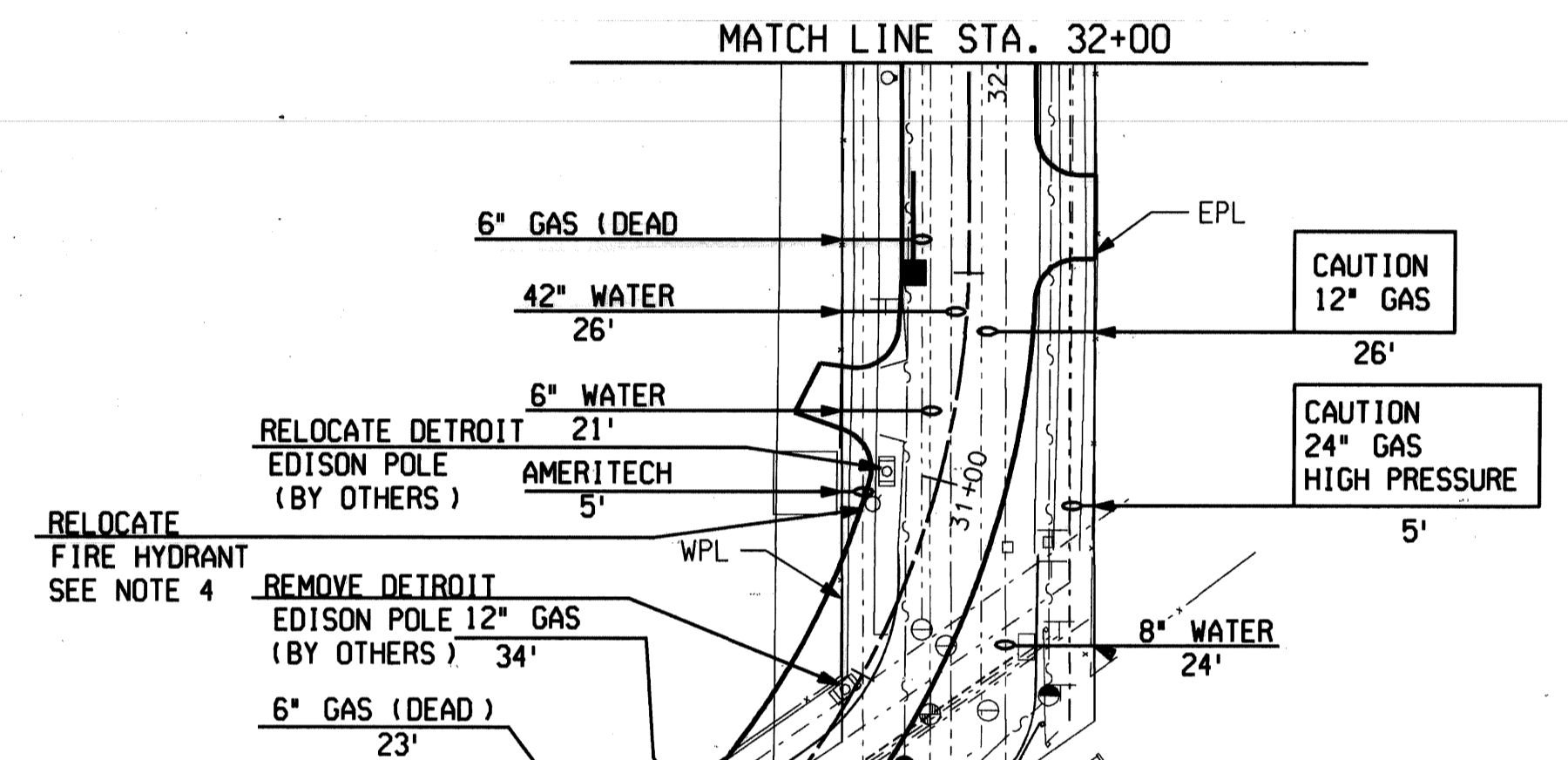
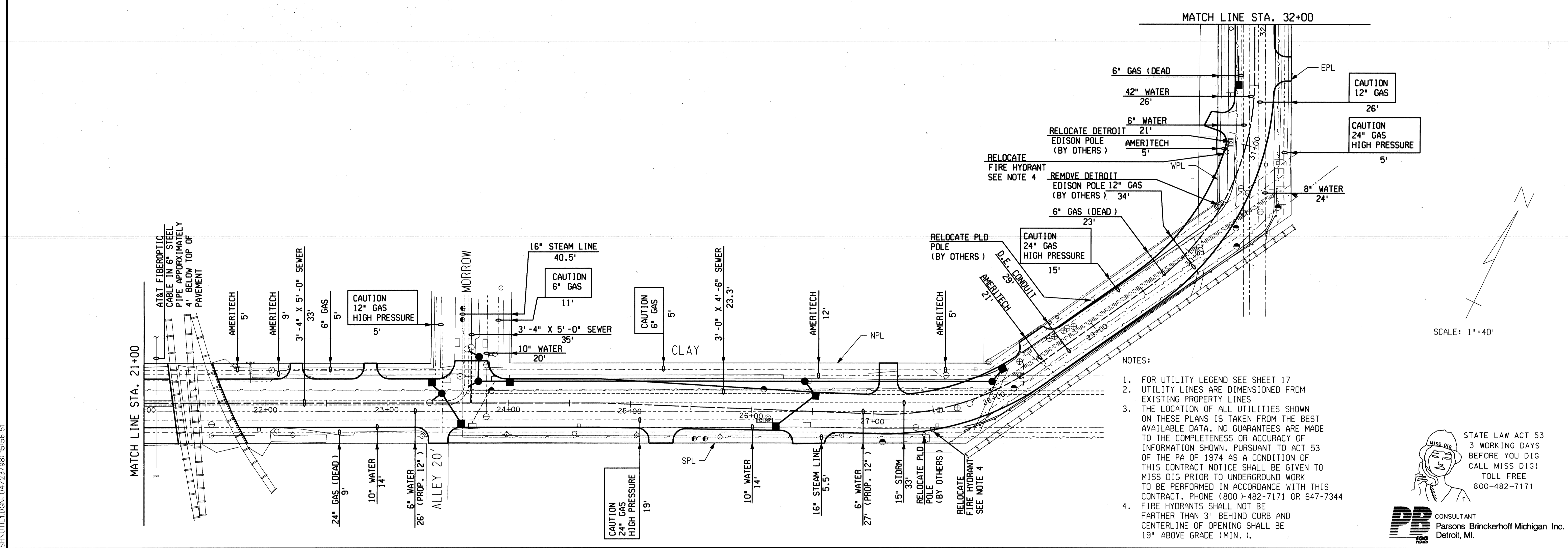
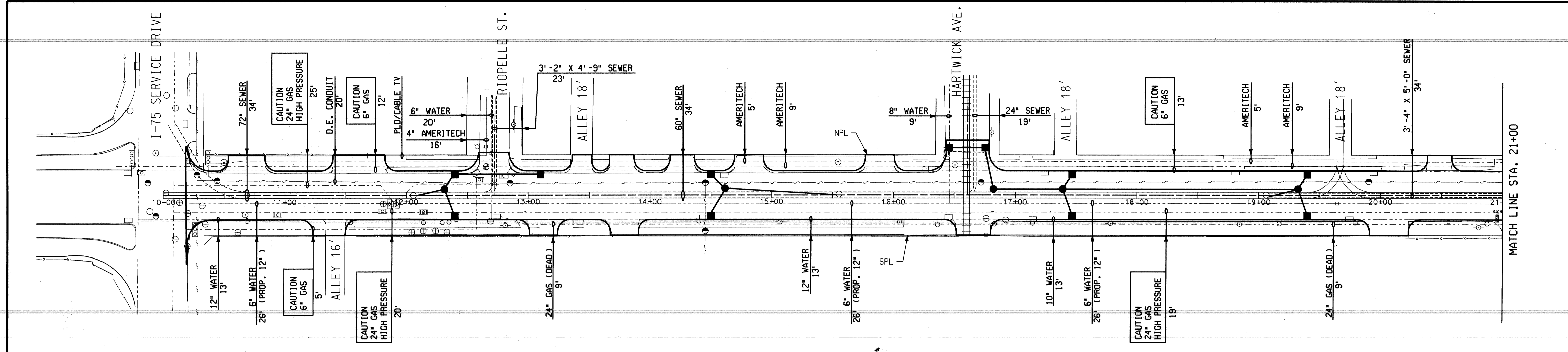


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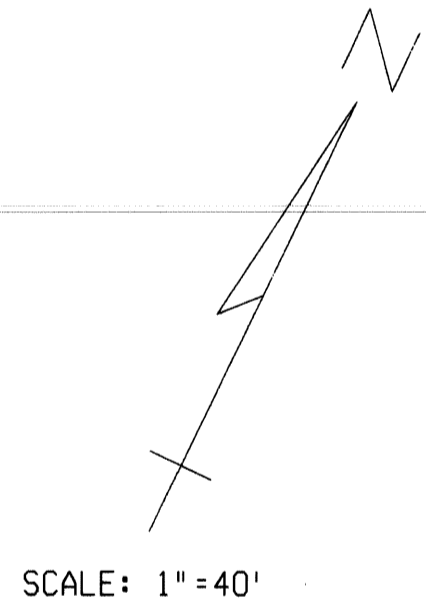


- NOTES:
- FOR UTILITY LEGEND SEE SHEET 17
 - UTILITY LINES ARE DIMENSIONED FROM EXISTING PROPERTY LINES
 - THE LOCATION OF ALL UTILITIES SHOWN ON THESE PLANS IS TAKEN FROM THE BEST AVAILABLE DATA. NO GUARANTEES ARE MADE TO THE COMPLETENESS OR ACCURACY OF INFORMATION SHOWN. PURSUANT TO ACT 53 OF THE PA OF 1974 AS A CONDITION OF THIS CONTRACT NOTICE SHALL BE GIVEN TO MISS DIG PRIOR TO UNDERGROUND WORK TO BE PERFORMED IN ACCORDANCE WITH THIS CONTRACT. PHONE (800)-482-7171 OR 647-7344
 - FIRE HYDRANTS SHALL NOT BE FARTHER THAN 3' BEHIND CURB AND CENTERLINE OF OPENING SHALL BE 19" ABOVE GRADE (MIN.).

STATE LAW ACT 53
3 WORKING DAYS
BEFORE YOU DIG
CALL MISS DIG!
TOLL FREE
800-482-7171



PB CONSULTANT
Parsons Brinckerhoff Michigan Inc.
Detroit, MI.



SCALE: 1" = 40'

DESCRIPTIONS	DR'N	CK'D	AP'VD	DATE
REVISIONS				

BY	CHECKED BY	APPROVED:
CMK	JWF	
JWF	DPM	
CHECK	REVIEW	

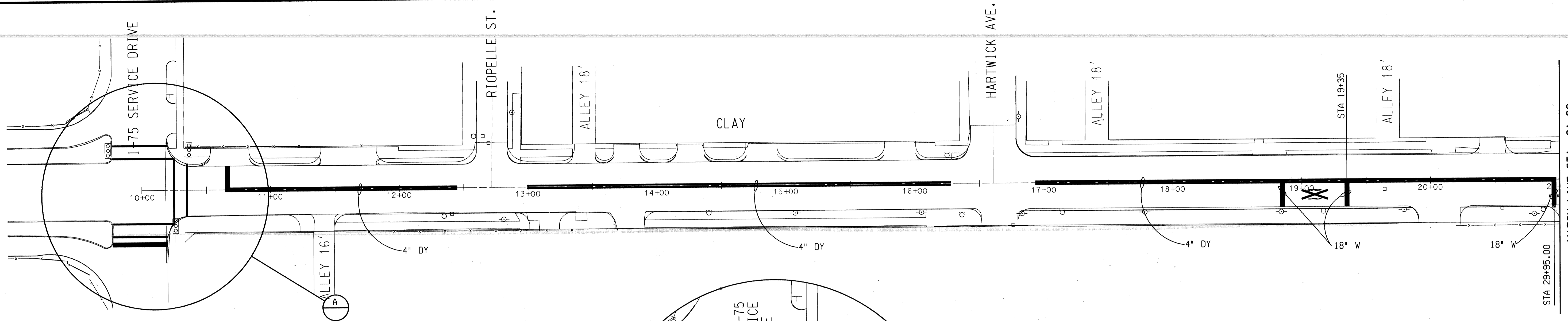
ENGINEER OF STREETS

CITY OF DETROIT
DEPARTMENT OF TRANSPORTATION
TRANSPORTATION ENGINEERING

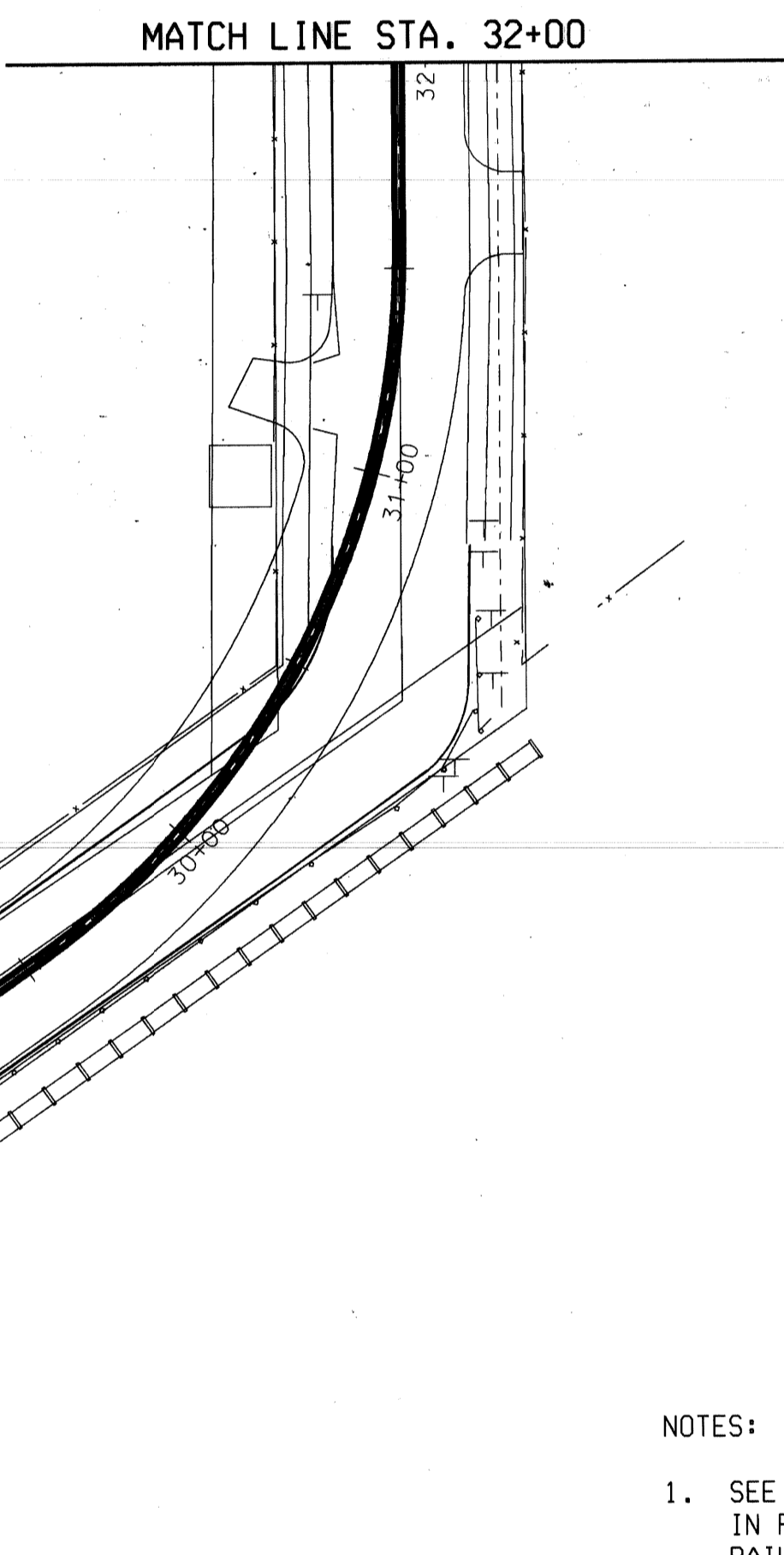
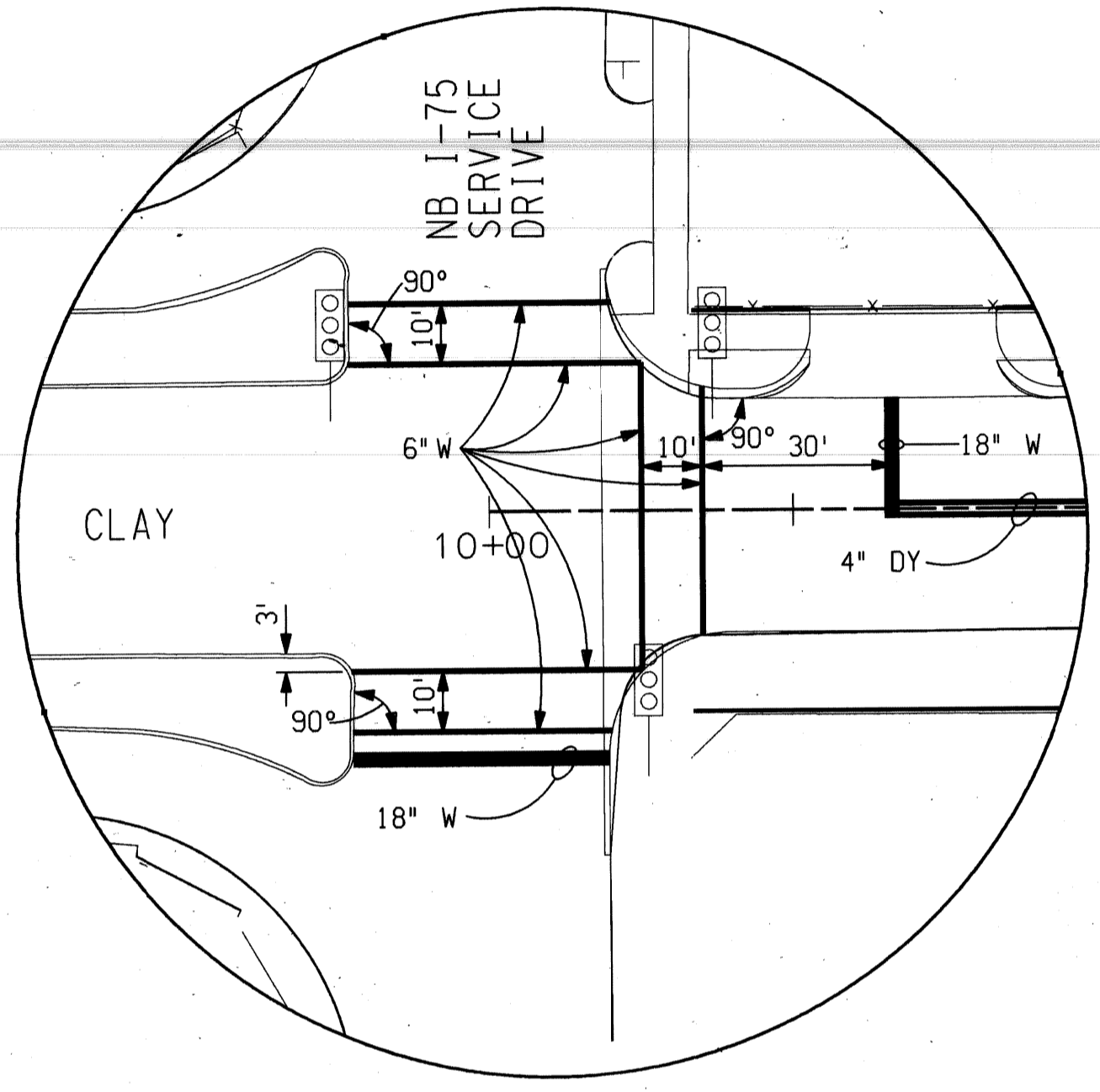
RECONSTRUCTION OF CLAY / ST. AUBIN
FROM NB I-75 (CHRYSLER) SERVICE DRIVE TO SOUTH OF DENTON

UTILITIES - P.O.B. TO STA. 32+00

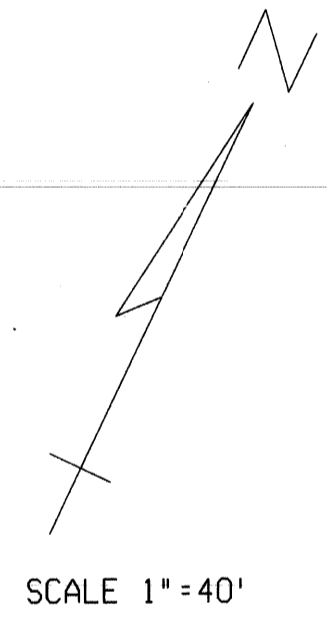
SHEET 18 OF 26 SHEETS
CONTRACT NO.
ASSIGNMENT NO.
DATE APRIL 1998



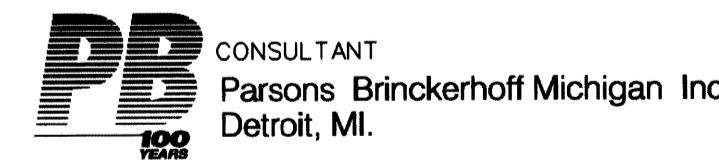
PAVEMENT MARKING SUMMARY		
TYPE	QUAN.	UNITS
4" YELLOW LANE LINE	5744	LFT
4" WHITE LANE LINE	0	LFT
6" WHITE CROSSWALK LINE	276	LFT
18" WHITE STOP LINE	255	LFT
RAILROAD SYMBOL	3	EACH



STRIPING DETAIL A
N.T.S.



- NOTES:
- SEE TYPICAL PAVEMENT MARKINGS DETAILS IN PROJECT SPECIFICATIONS FOR ADDITIONAL RAILROAD LAYOUT AND PAVEMENT MARKING INFORMATION
 - DY=SOLID DOUBLE YELLOW LINE
W=SOLID WHITE LINE



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REVISIONS				

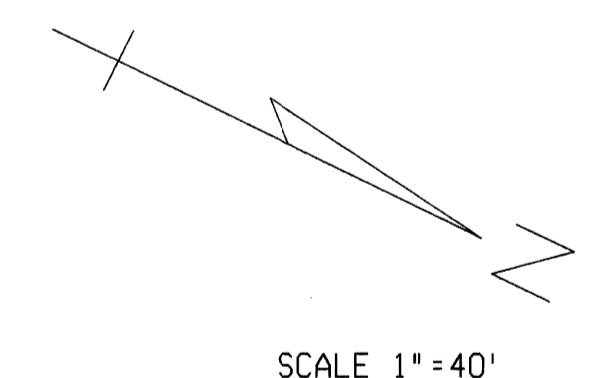
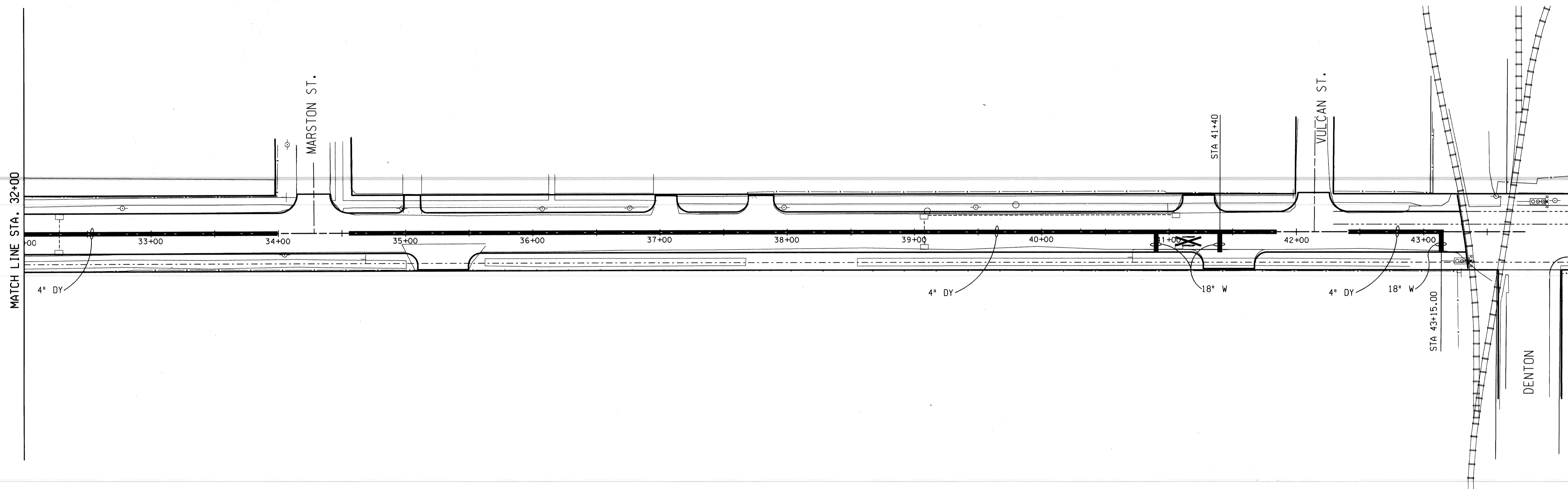
BY	CHECKED BY	APPROVED:
PLAN CMK	DPM	ENGINEER OF STREETS
ESTIMATE JWF	DPM	
FINAL CHECK	REVIEW	

CITY OF DETROIT
DEPARTMENT OF TRANSPORTATION
TRANSPORTATION ENGINEERING

RECONSTRUCTION OF CLAY / ST. AUBIN
FROM NB I-75 (CHRYSLER) SERVICE DRIVE TO SOUTH OF DENTON

PAVEMENT MARKINGS POB TO STA 32+00

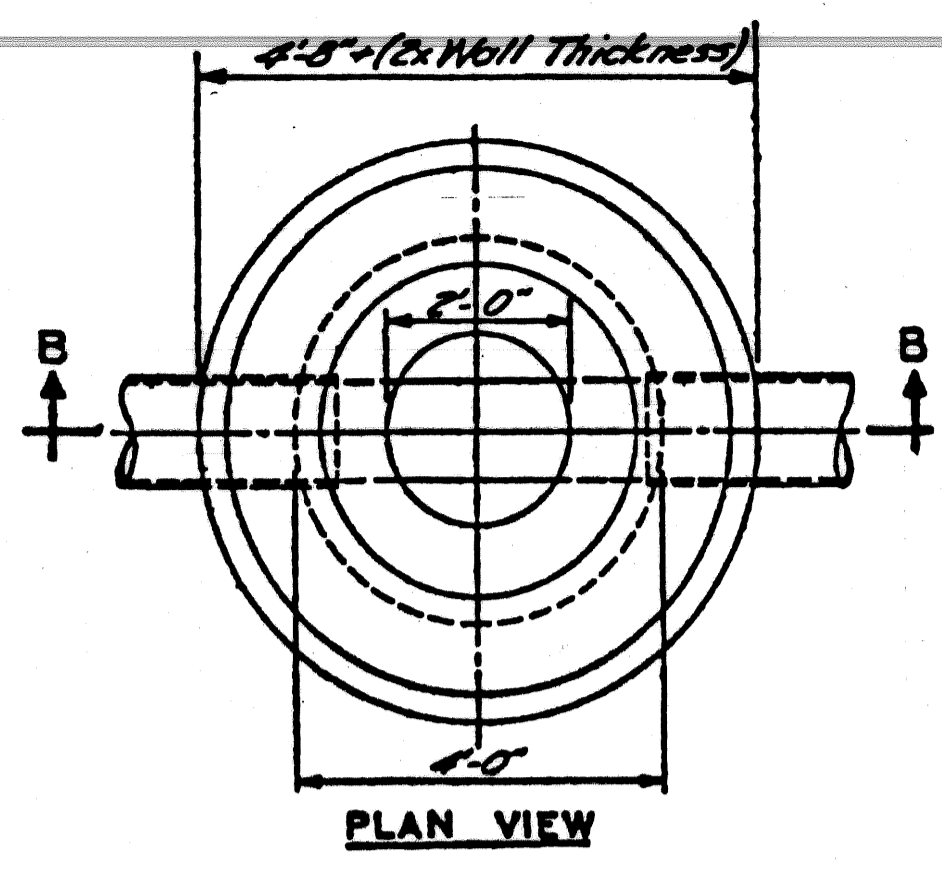
SHEET 20 OF 26 SHEETS
CONTRACT NO.
ASSIGNMENT NO.
DATE APRIL 1998



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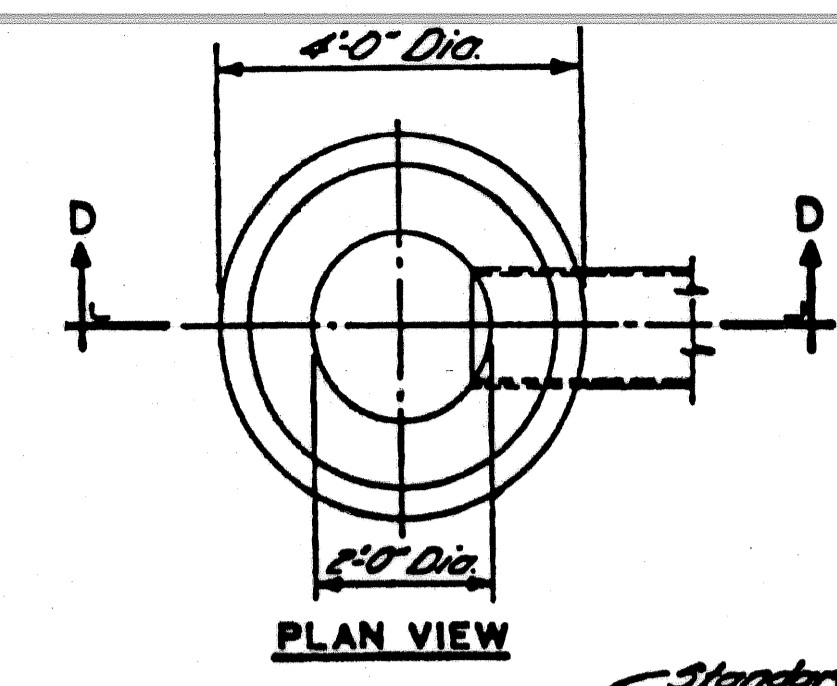
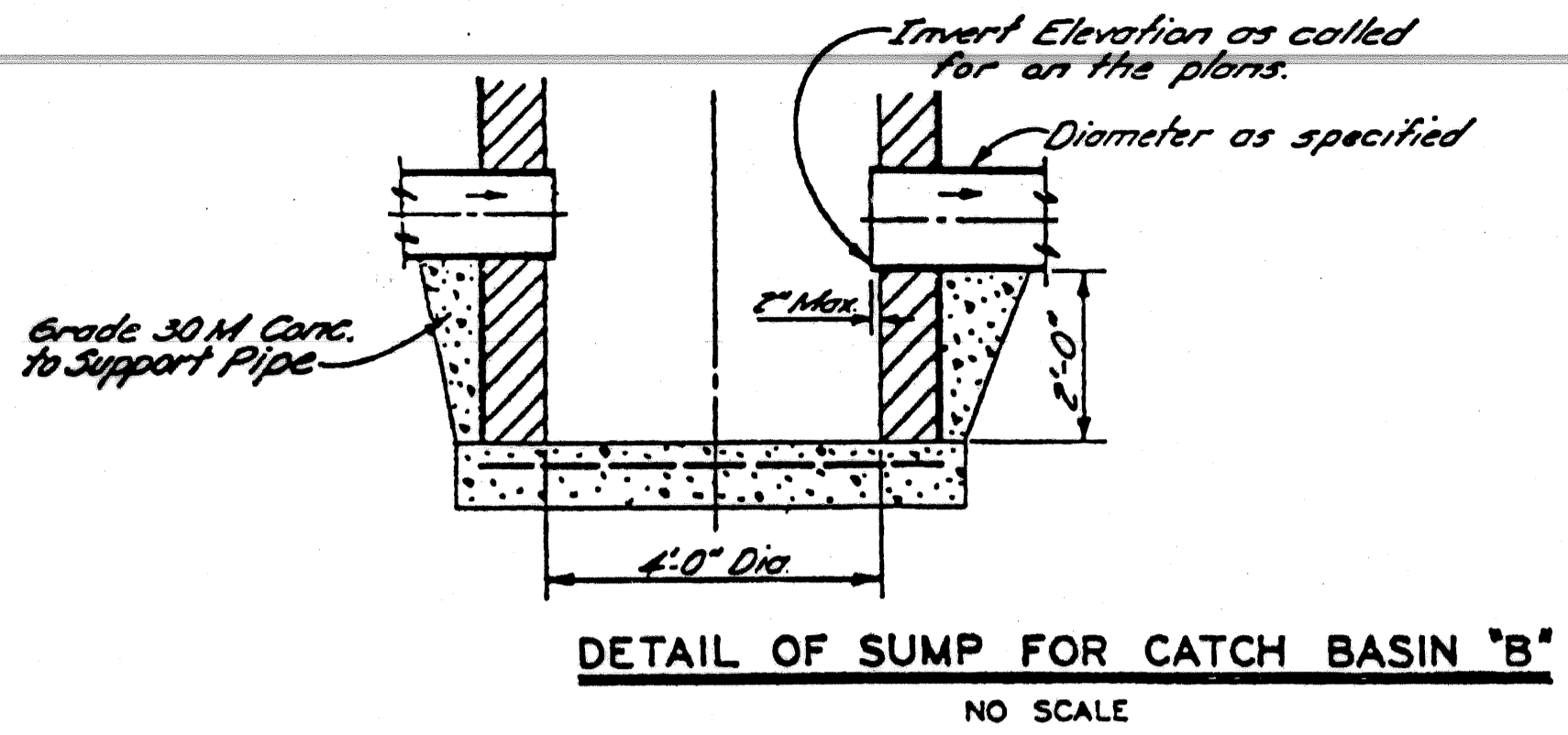
PB CONSULTANT
 Parsons Brinckerhoff Michigan Inc.
 Detroit, MI

				PLAN	BY	CHECKED BY	APPROVED:	CITY OF DETROIT DEPARTMENT OF TRANSPORTATION TRANSPORTATION ENGINEERING	RECONSTRUCTION OF CLAY / ST. AUBIN FROM NB I-75 (CHRYSLER) SERVICE DRIVE TO SOUTH OF DENTON	SHEET 21 OF 26 SHEETS
				GRADE	CMK	DPM	ENGINEER OF STREETS			CONTRACT NO.
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REVISIONS				FINAL	CHECK	REVIEW				DATE APRIL 1998

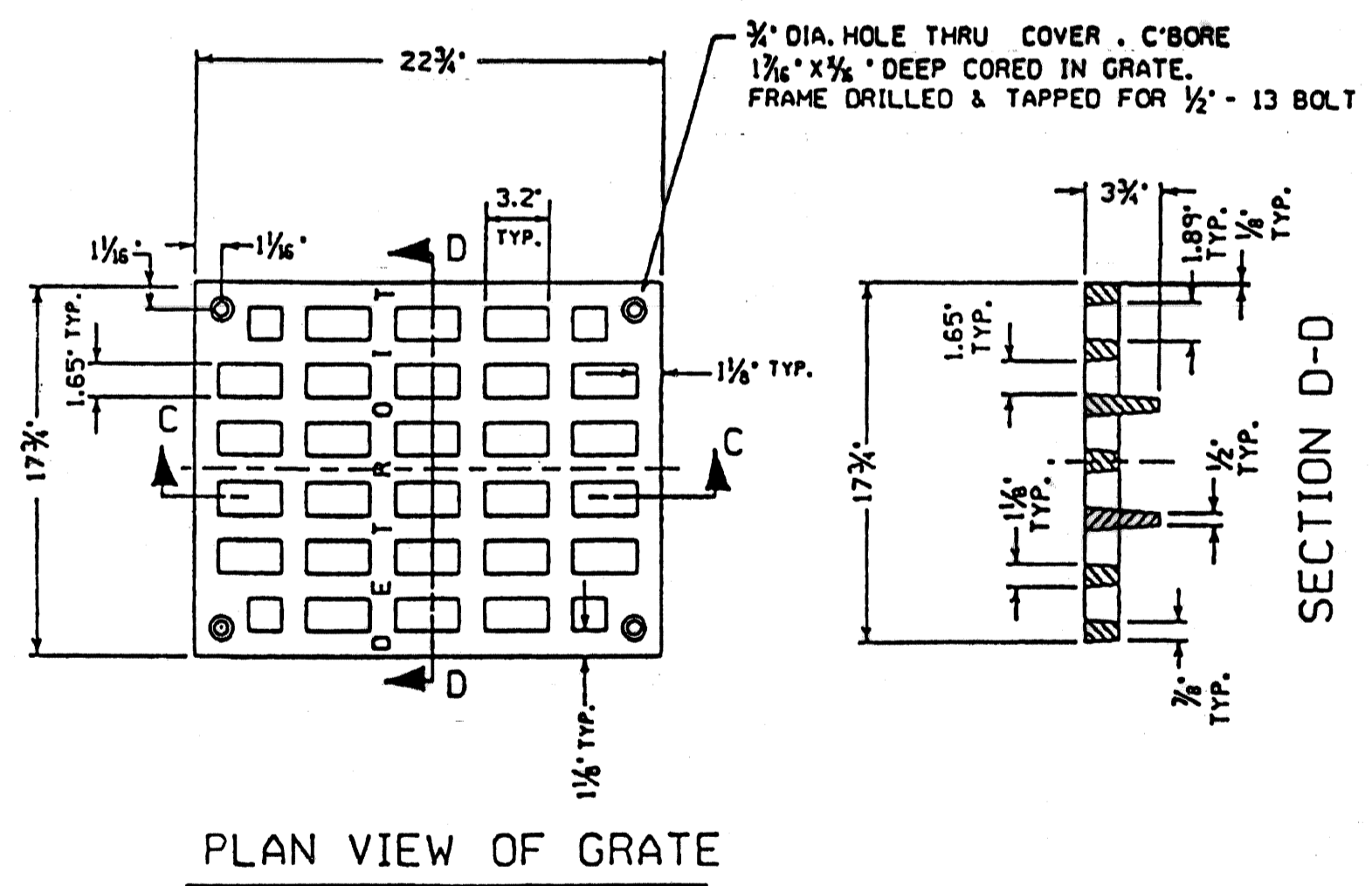
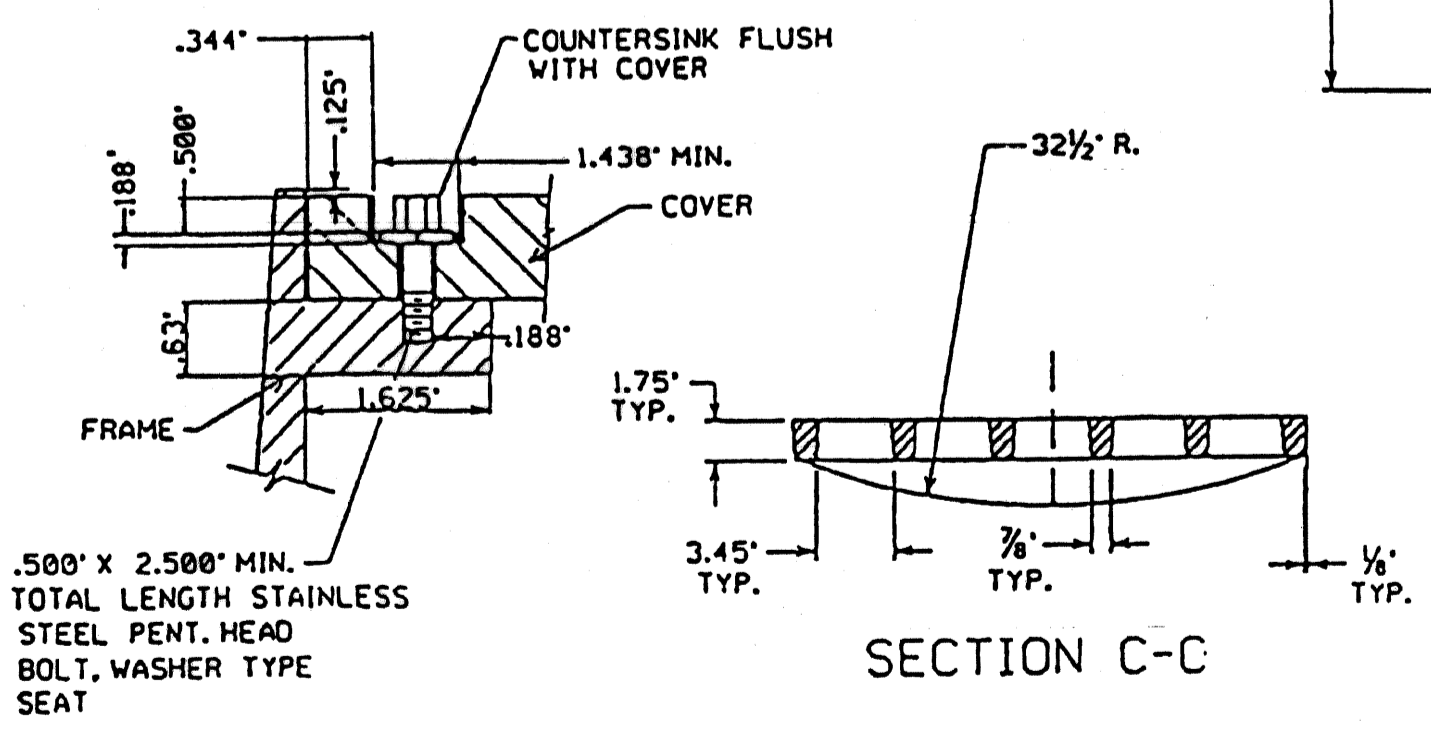
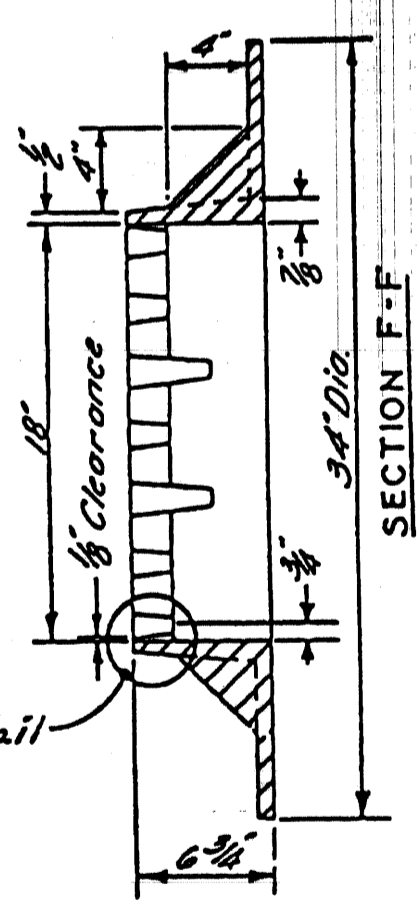
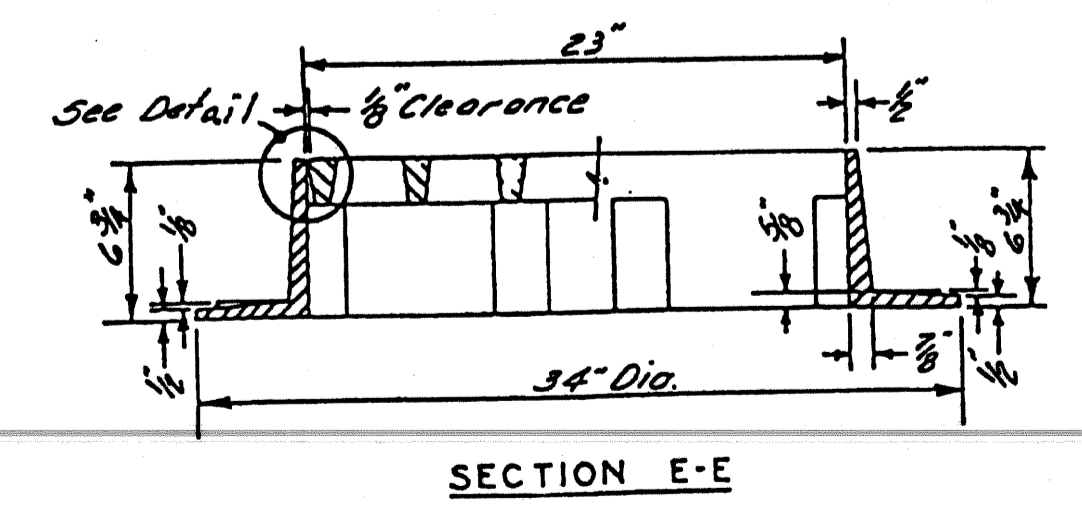
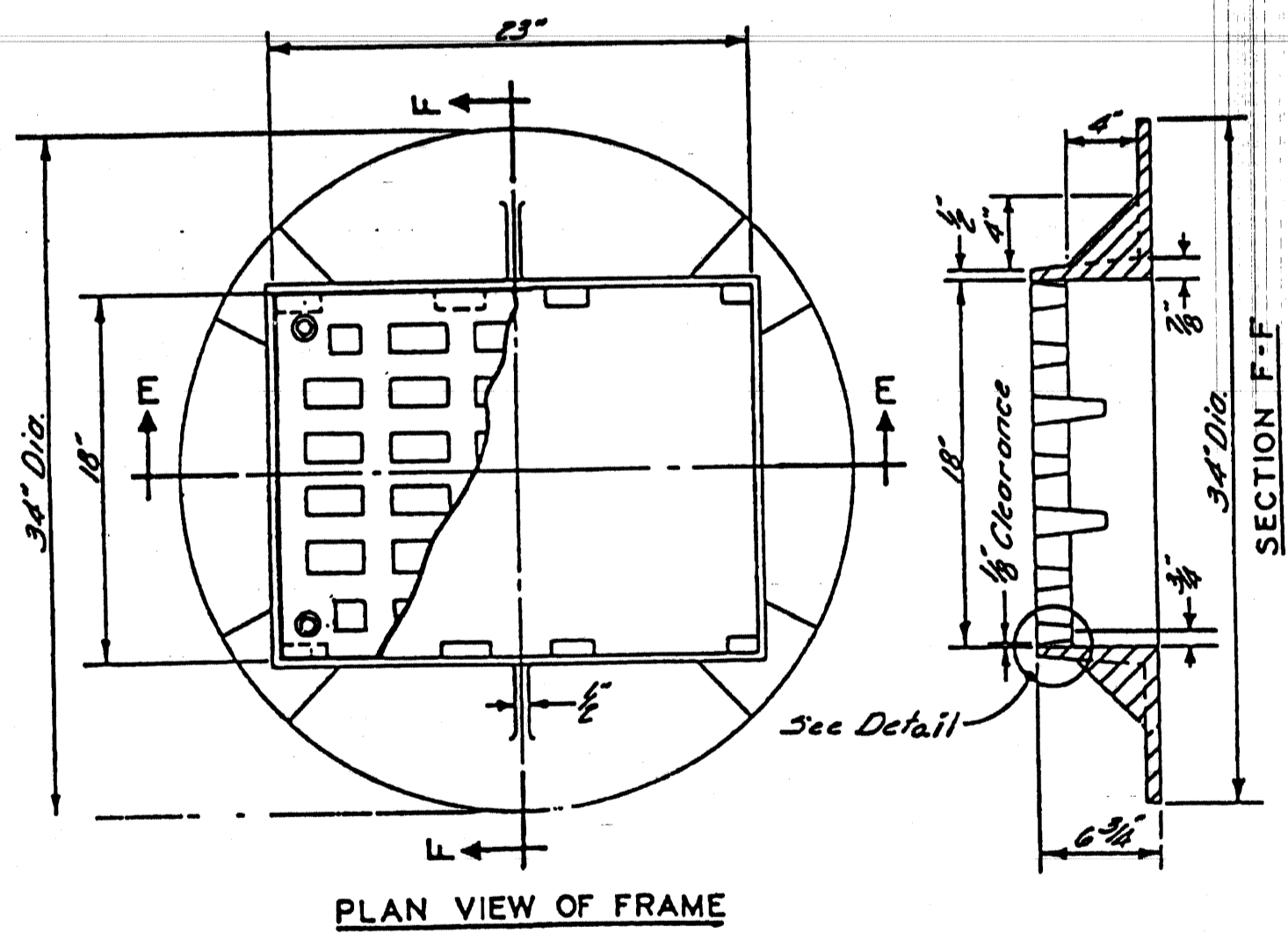
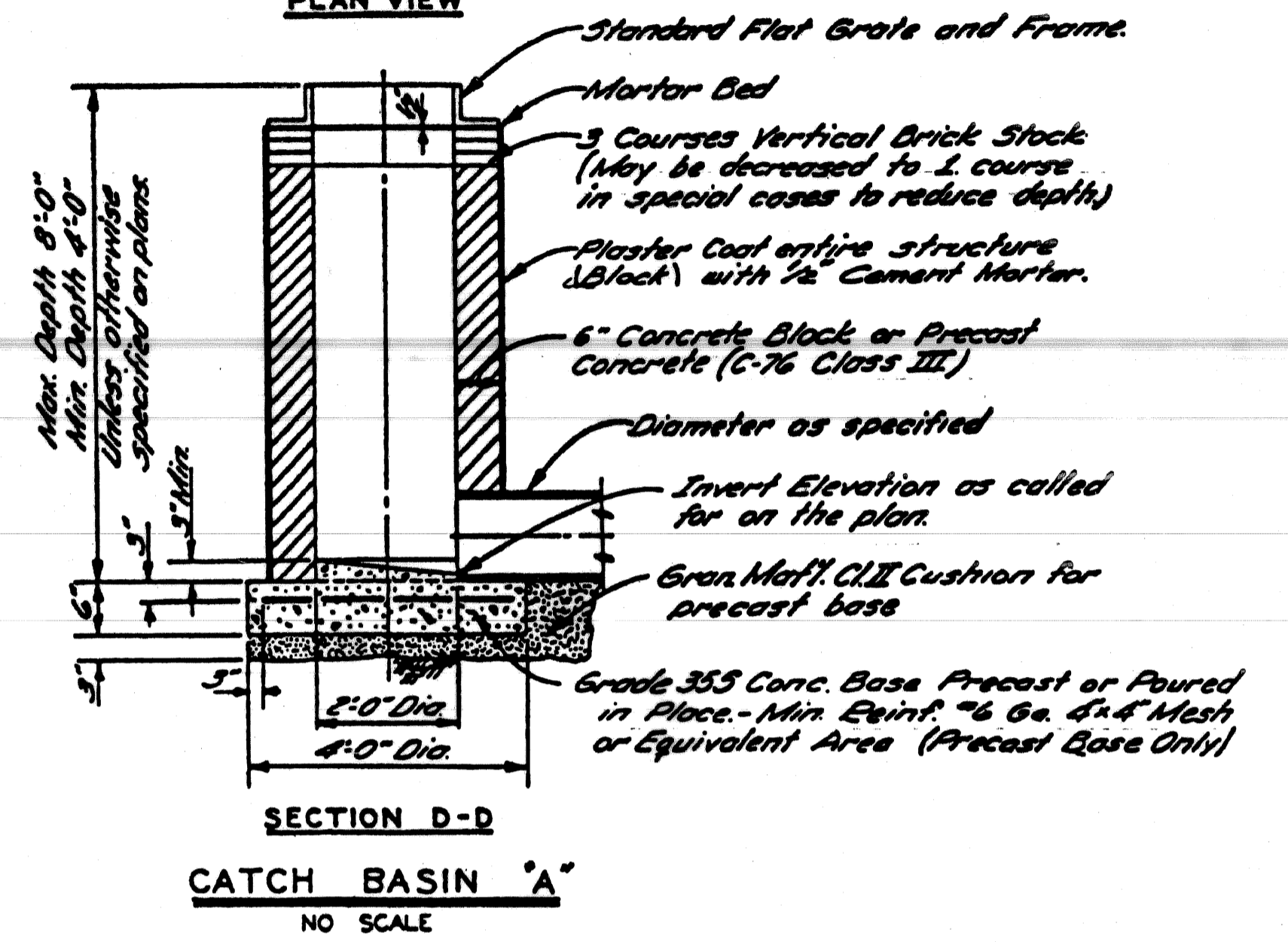
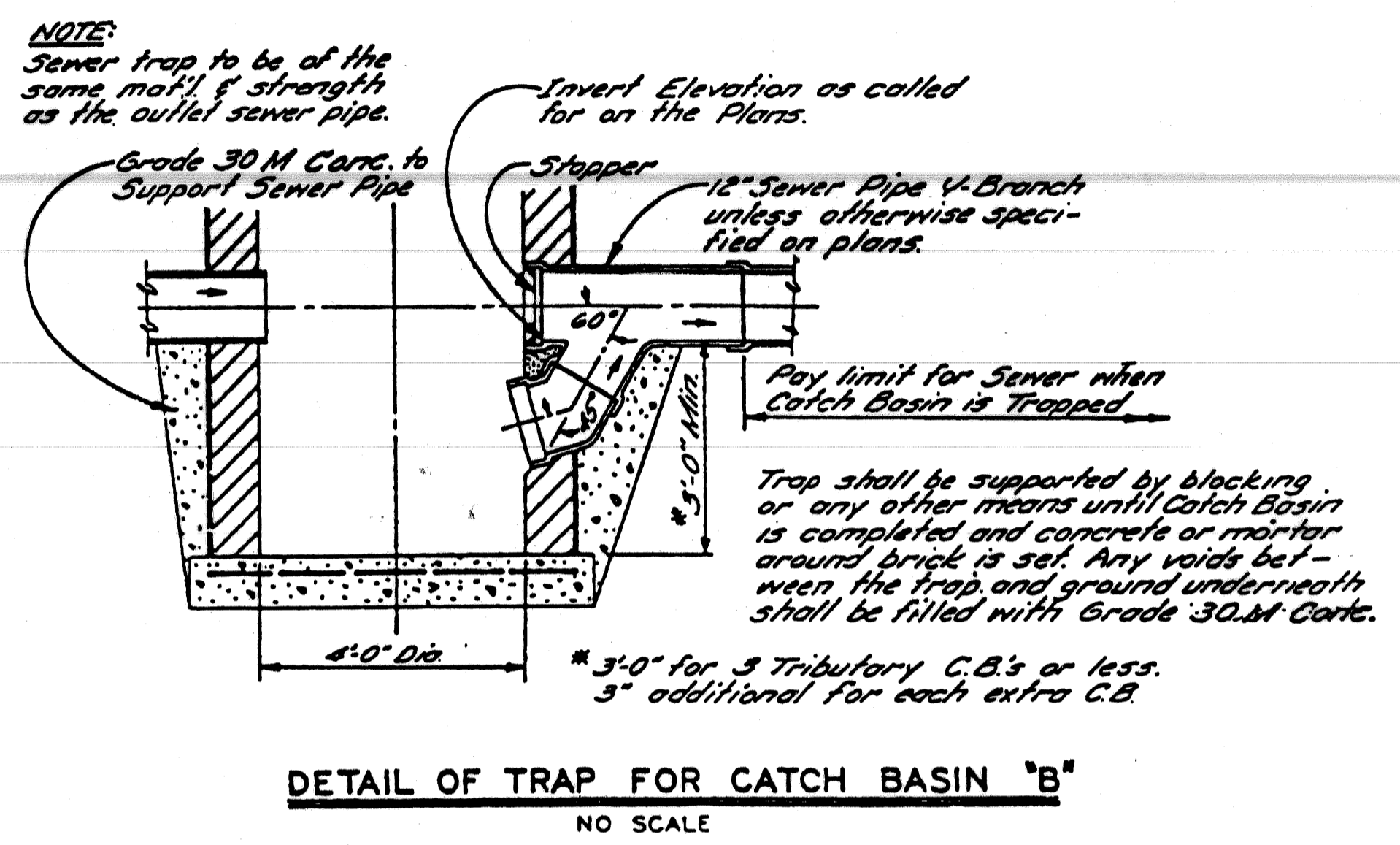
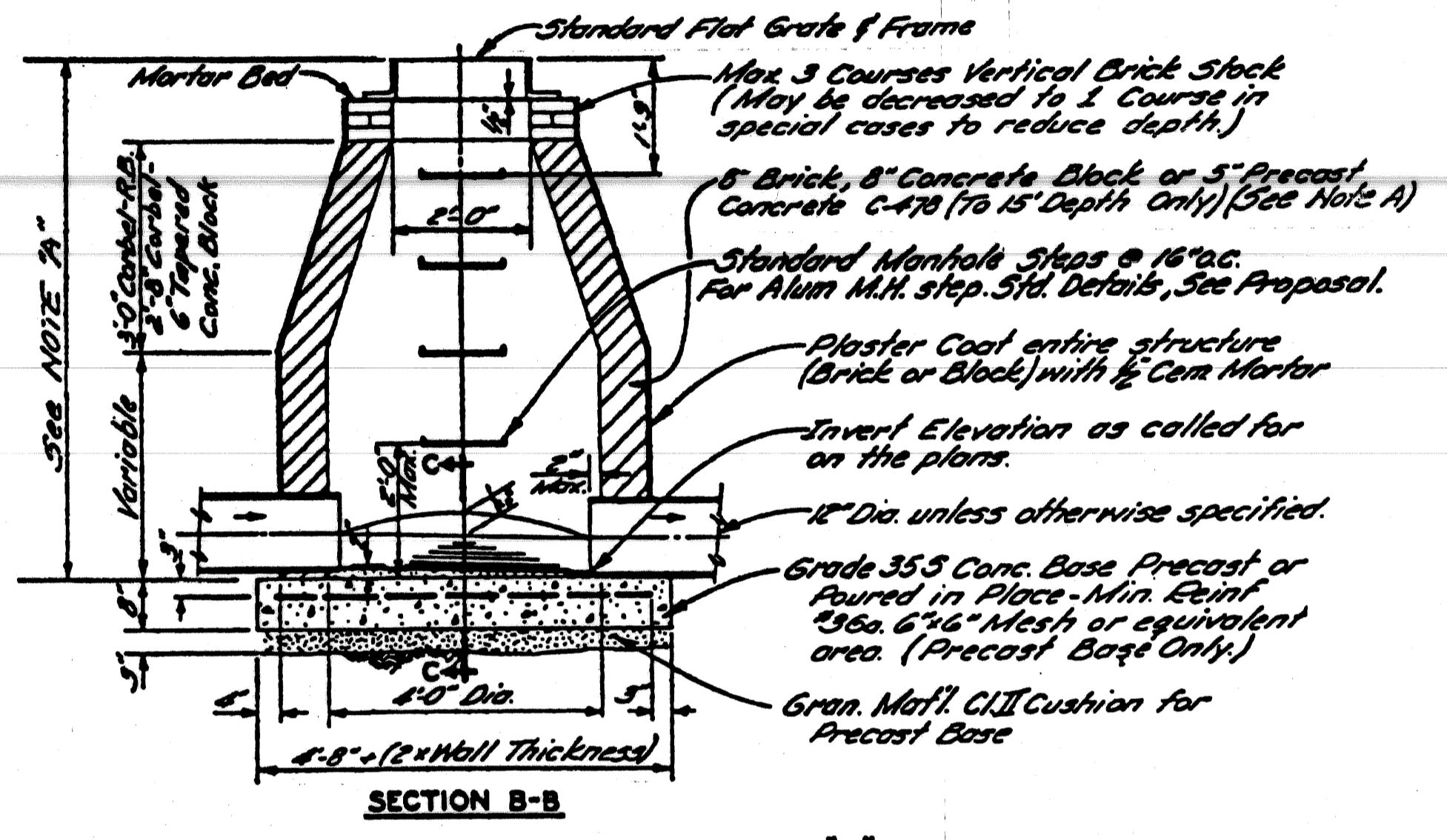


NOTE 'A'
Wall thickness below a depth of 15 feet shall be 12 inches.

Channel Bottom (Grade 30.5 Concrete)
SECTION C-C



NOTE:
Catch Basin 'A' will be used only when outletting to a Catch Basin 'B'



MATERIAL:
GRAY IRON A.S.T.M. STD. SPEC. A-48, CLASS 30, BEARING SURFACES OF COVER AND FRAME SHALL BE GRIND TO PREVENT ROCKING, CASTING SHALL NOT BE COATED

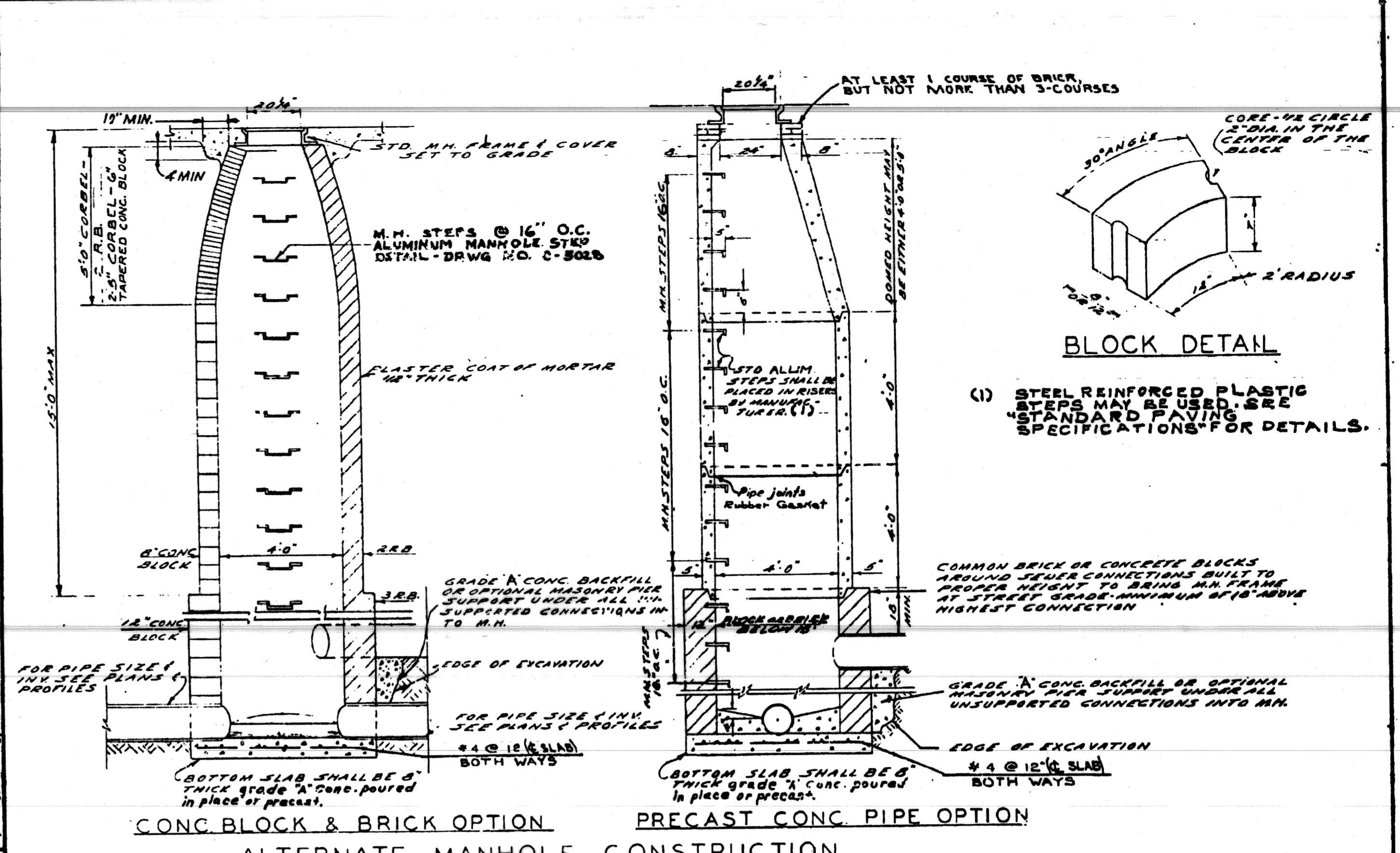
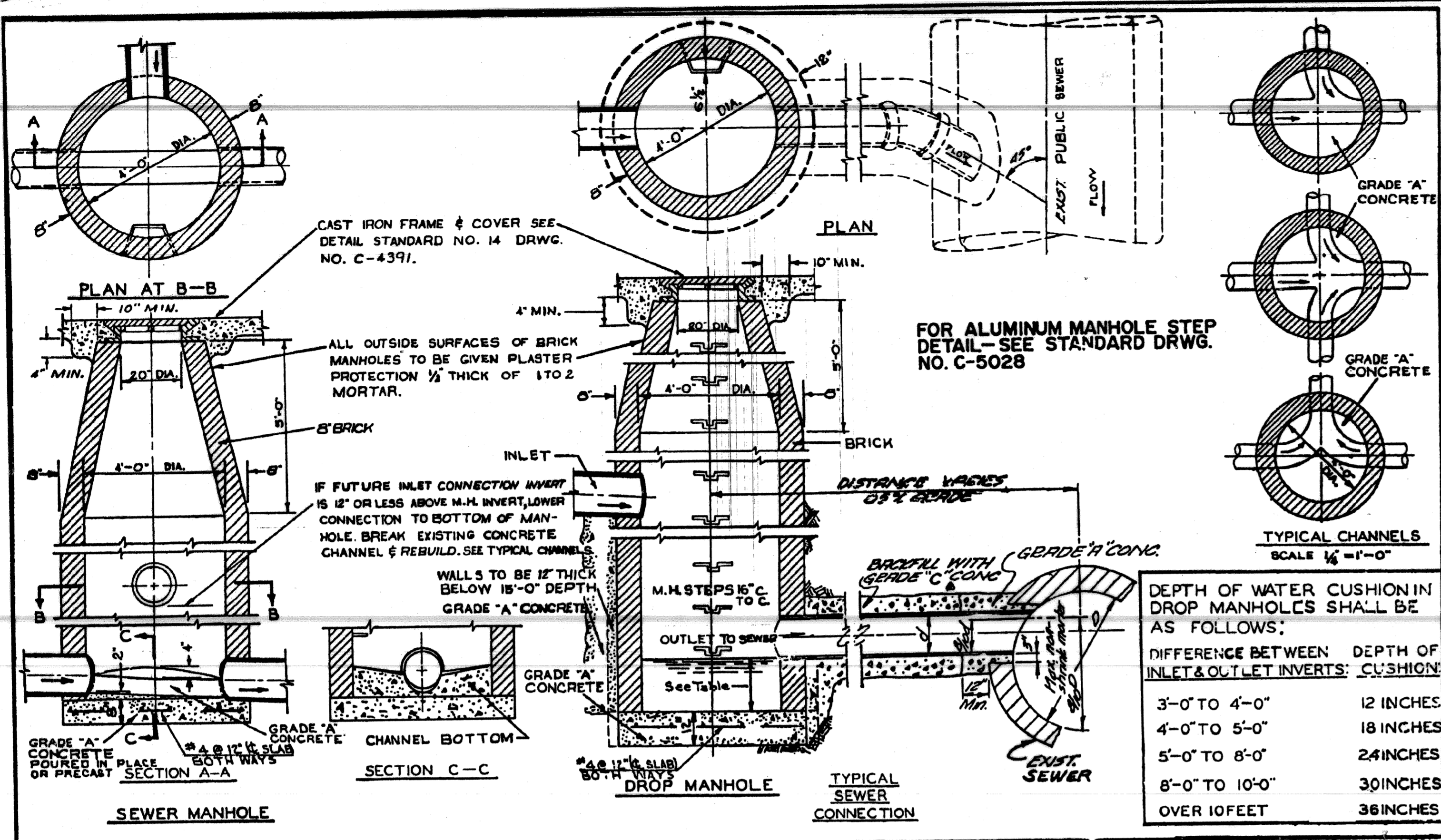
NOTE:
F = FINISH SURFACE

STANDARD FLAT GRATE AND FRAME
NO SCALE

GENERAL NOTES

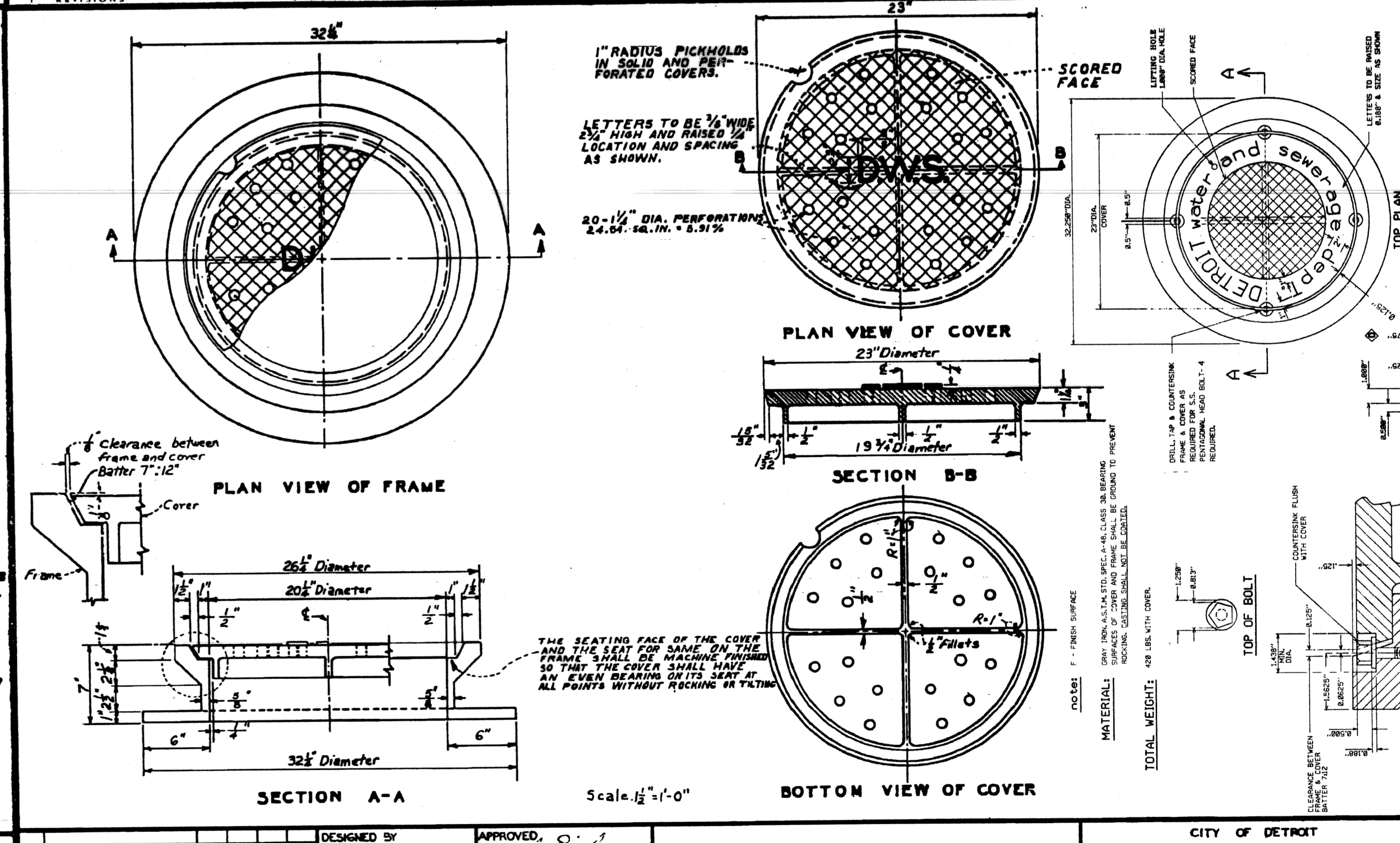
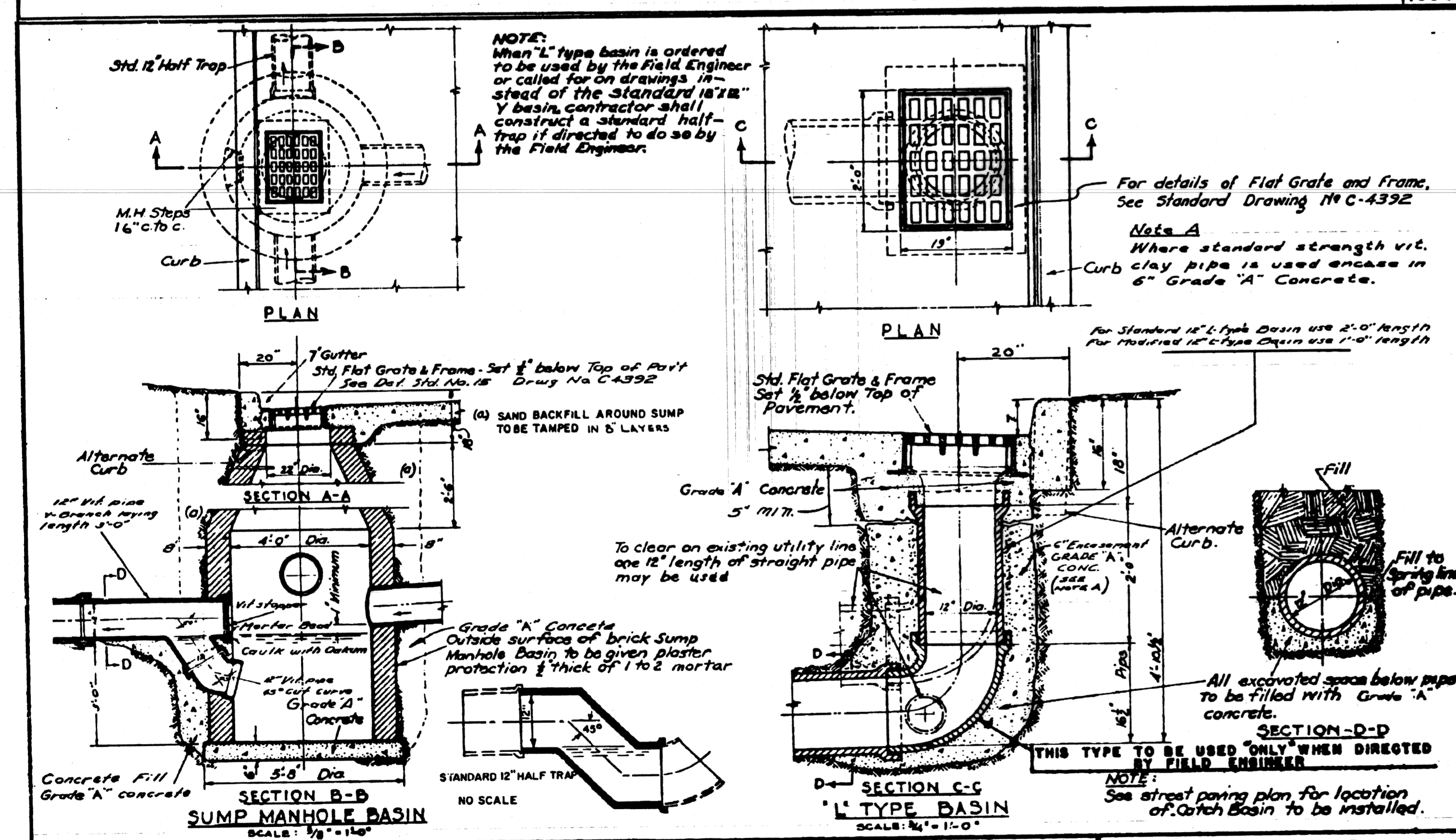
- The materials of workmanship shall be in accordance with the current Standard Specifications.
- Center of Catch Basin shall be 20 inches from back of curb.
- All sizes of flow lines of pipe, and elevations for top of bottom of structures shall be determined from the plans or construction requirements. The bell shall be removed from the first length of outlet pipe projecting through the wall of the structures. When any structure is constructed of precast concrete or concrete block, the top of the masonry shall be left sufficiently low to permit proper adjustment of cover to grade by the use of mortar or bricks as directed by the Engineer.
- A Trap, as detailed on this sheet, shall be placed where called for in the outlet sewer line of Catch Basins 'B'. This trap shall be set into the masonry wall as shown on the detail. The space between the faces of the wall of the trap shall be completely filled with cement, mortar or concrete, so as to hold trap securely in place. The traps will be paid for separately at the Contract Unit Price each, which price shall include the extra catch basin construction required and for furnishing and installing the trap.
- A plaster coat of mortar 1/2 inch in thickness shall be applied to the outer surface of the structure as shown. A 1/2 inch cement plaster coat shall be placed on the inside of all sumps.
- Contractor shall verify elevations of existing utilities to enable construction to indicated elevations shown on drawings. If necessary, invert elevations shown on the drawings may be altered in the field to clear existing utilities. Such alterations, upward or downward, shall be at no charge in contract price.
- When precast concrete pipe sections are used for catch basins, either a section of the inlet and outlet pipes or an opening or eye for the inlet or outlet pipes shall be cast into the wall of the catch basin pipe when it is being manufactured. Eyes in precast pipe sections shall be furnished to accommodate a flexible joint connection such as Press-Wedge by Press Seal Gasket Corp or Res-Seal by Seales Mfg. Corp.
- Pay limit for sewers shall be inside faces of structures unless otherwise noted.

REVISIONS	PLAN	BY: M. POLITO	CHECKED BY: D. MILZ	APPROVED: John Erickson	CITY OF DETROIT CITY ENGINEERING DIVISION - D.P.W. BUREAU OF STREETS AND HIGHWAYS	SHEET 22 OF 26 SHEETS CONTRACT NO. ASSIGNMENT NO. DATE APRIL 1998
	ESTIMATE			Allen E. Ferguson		
DESCRIPTION	DR	NCK	DAPY	DATE		
	FINAL			W. B. Cannon		SPECIAL STANDARDS



DESIGNED BY		APPROVED BY		CITY OF DETROIT	
DRAWN BY		ENGINEER OF STREETS		CITY ENGINEERING DEPARTMENT	
TRACED BY		ASST. CITY ENGINEER		BUREAUS OF STREETS AND HIGHWAYS	
CHECKED BY		CITY ENGINEER		DETAIL STANDARD NO. 10	
DESCRIPTION		DETAILS OF STANDARD SEWER & DROP MANHOLES		DWG. NO. C-4397	
REVISIONS		BOOK NO. PG. SCALE 3/8"=1'-0" DATE: 8-27-66		1990	

DESIGNED BY		APPROVED BY		CITY OF DETROIT	
DRAWN BY		ENGINEER OF STREETS		CITY ENGINEERING DEPARTMENT	
TRACED BY		ASST. CITY ENGINEER		BUREAUS OF STREETS AND HIGHWAYS	
CHECKED BY		CITY ENGINEER		DETAIL STANDARD NO. 18	
DESCRIPTION		ALTERNATE MANHOLE CONSTRUCTION		DWG. NO. C-4399A	
REVISIONS		BOOK NO. PG. SCALE 3/8"=1'-0" DATE: 8-27-66		1990	

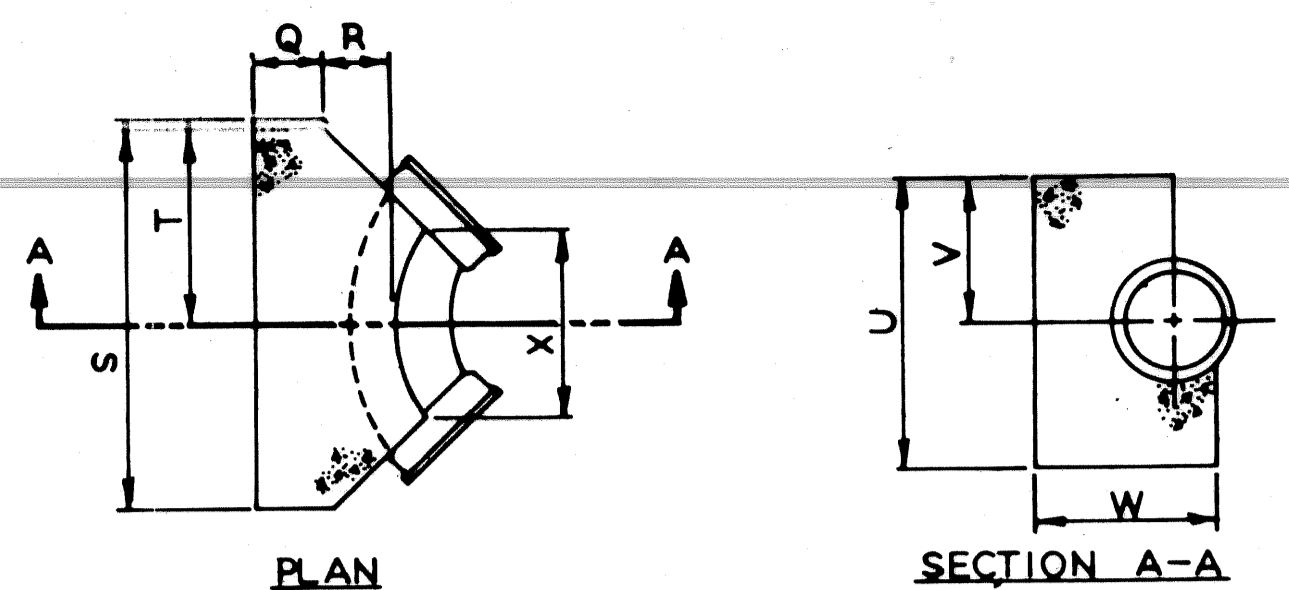


DESIGNED BY		APPROVED BY		CITY OF DETROIT	
DRAWN BY		ENGINEER OF STREETS		CITY ENGINEERING DEPARTMENT	
TRACED BY		ASST. CITY ENGINEER		BUREAUS OF STREETS AND HIGHWAYS	
CHECKED BY		CITY ENGINEER		DETAIL STANDARD NO. 15	
DESCRIPTION		TYPICAL SUMP MANHOLE & L TYPE CATCH BASINS		DWG. NO. C-4398	
REVISIONS		BOOK NO. PG. SCALE AS SHOWN DATE: 10-14-1966		1990	

DESIGNED BY		APPROVED BY		CITY OF DETROIT	
DRAWN BY		ENGINEER OF STREETS		CITY ENGINEERING DEPARTMENT	
TRACED BY		ASST. CITY ENGINEER		BUREAUS OF STREETS AND HIGHWAYS	
CHECKED BY		CITY ENGINEER		DETAIL STANDARD NO. 14	
DESCRIPTION		DETAILS OF STANDARD MANHOLE FRAME AND COVER		DWG. NO. C-4391	
REVISIONS		BOOK NO. PG. SCALE AS SHOWN DATE: 10-14-1966		1990	

CITY OF DETROIT		CITY OF DETROIT	
CITY ENGINEERING DIVISION - D.P.W.		CITY ENGINEERING DEPARTMENT	
BUREAU OF STREETS AND HIGHWAYS		BUREAUS OF STREETS AND HIGHWAYS	
SHEET 23 OF 26 SHEETS		CONTRACT NO.	
ASSIGNMENT NO.		DATE APRIL 1998	

CITY OF DETROIT		CITY OF DETROIT	
CITY ENGINEERING DEPARTMENT		CITY ENGINEERING DEPARTMENT	
BUREAUS OF STREETS AND HIGHWAYS		BUREAUS OF STREETS AND HIGHWAYS	
GATE WELL FRAME & COVER		GATE WELL FRAME & COVER	
NO. SCALE		NO. SCALE	
2/88		2/88	
3/95		3/95	
A120-234		A120-234	

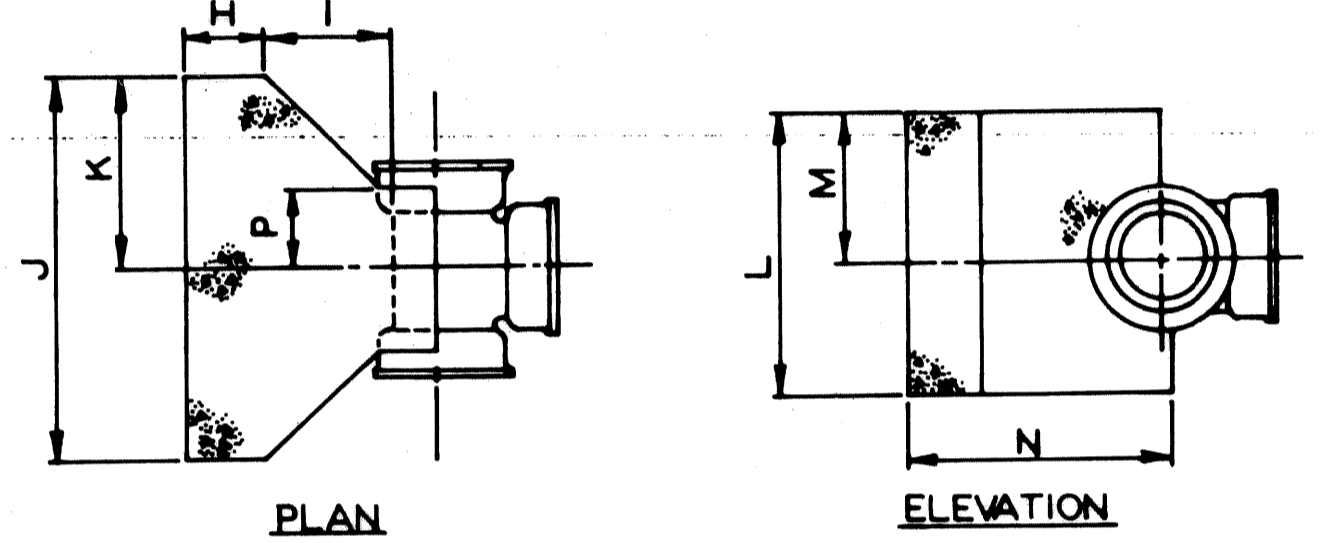


SCHEDULE OF THRUST BLOCK DIMENSIONS

BEND SIZE	Q	R	S	T	U	V	W	X
6"-22 1/2" 45°	0'-9"	1'-0"	2'-0"	1'-0"	1'-6"	0'-9"	1'-11"	1'-4"
6"-90°	0'-9"	1'-0"	3'-0"	1'-6"	2'-0"	1'-0"	1'-11"	1'-2"
8"-22 1/2" 45°	0'-9"	1'-0"	2'-4"	1'-2"	2'-0"	1'-0"	1'-11"	1'-4"
8"-90°	0'-9"	1'-0"	3'-4"	1'-8"	2'-6"	1'-3"	1'-11"	1'-2"
12"-22 1/2" 45°	0'-9"	1'-0"	2'-6"	1'-3"	2'-0"	1'-0"	2'-0"	1'-4"
12"-45°	0'-9"	1'-4"	3'-6"	1'-9"	2'-6"	1'-3"	2'-4"	1'-4"
12"-90°	0'-9"	1'-4"	5'-6"	2'-9"	3'-0"	1'-6"	2'-4"	1'-8"
16"-22 1/2" 45°	1'-0"	1'-8"	3'-4"	1'-8"	2'-6"	1'-3"	3'-0"	1'-2"
16"-45°	1'-0"	1'-8"	5'-4"	2'-8"	3'-0"	1'-6"	3'-0"	2'-6"
16"-90°	1'-0"	1'-8"	6'-0"	3'-0"	5'-0"	2'-6"	3'-0"	2'-8"

DETAIL OF STANDARD THRUST BLOCKS FOR BENDS
Not to Scale

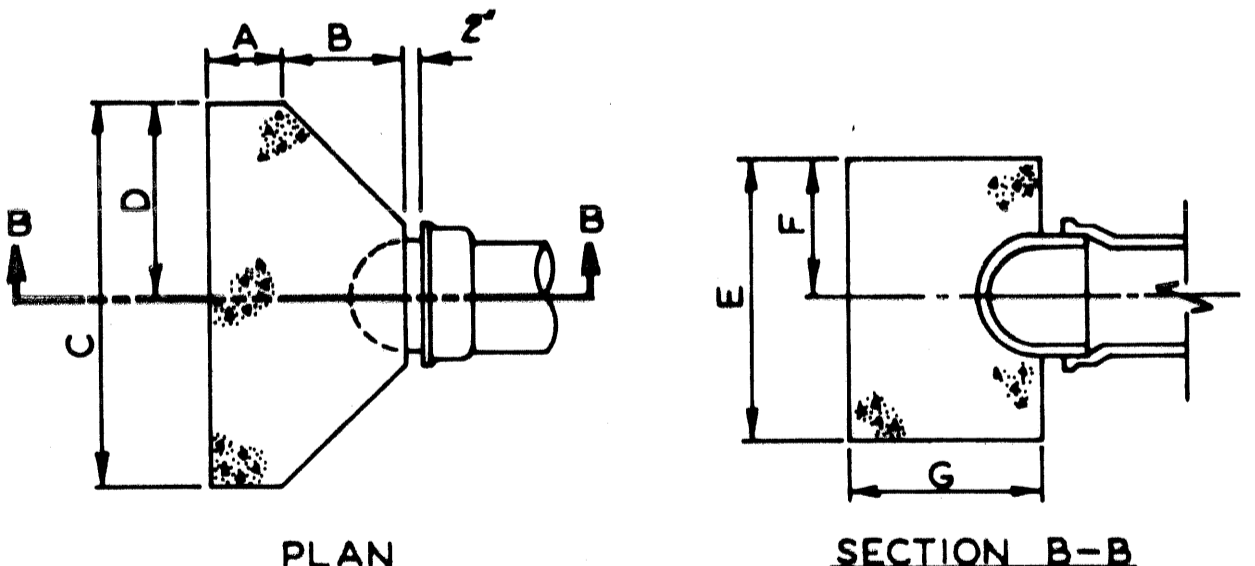
NOTES
The bearing face of all Thrust Blocks shall be poured against undisturbed earth.
Thrust Blocks when required for vertical bends are shown by special details.



SCHEDULE OF THRUST BLOCK DIMENSIONS

TEE SIZE	H	I	J	K	L	M	N	P
6" x 6"	0'-9"	1'-0"	2'-6"	1'-3"	1'-6"	0'-9"	2'-3"	0'-6"
8" x 8"	0'-9"	1'-0"	3'-0"	1'-6"	2'-0"	1'-0"	2'-3"	0'-6"
10" x 10"	0'-9"	1'-2"	3'-6"	1'-9"	2'-6"	1'-3"	2'-7"	0'-7"
12" x 8"	0'-9"	1'-0"	3'-0"	1'-6"	2'-0"	1'-0"	2'-5"	0'-6"
12" x 12"	0'-9"	1'-4"	4'-0"	2'-0"	3'-0"	1'-6"	2'-9"	0'-8"
16" x 8"	0'-9"	1'-0"	3'-0"	1'-6"	2'-0"	1'-0"	2'-9"	0'-6"
16" x 12"	0'-9"	1'-4"	4'-0"	2'-0"	3'-0"	1'-6"	3'-1"	0'-8"
16" x 16"	1'-0"	1'-8"	5'-0"	2'-6"	4'-0"	2'-0"	3'-8"	0'-11"

DETAIL OF STANDARD THRUST BLOCKS FOR TEES
Not to Scale

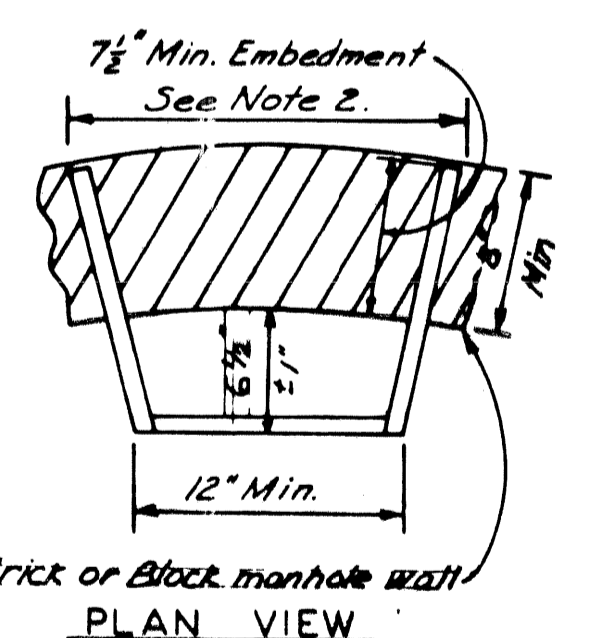


SCHEDULE OF THRUST BLOCK DIMENSIONS

PLUG SIZE	A	B	C	D	E	F	G
6"	0'-9"	1'-2"	3'-0"	1'-6"	2'-0"	1'-0"	1'-11"
8"	0'-9"	1'-2"	3'-0"	1'-6"	2'-0"	1'-0"	1'-11"
12"	0'-9"	1'-4"	4'-0"	2'-0"	3'-0"	1'-6"	2'-11"
16"	1'-0"	1'-8"	5'-0"	2'-6"	4'-0"	2'-0"	2'-8"

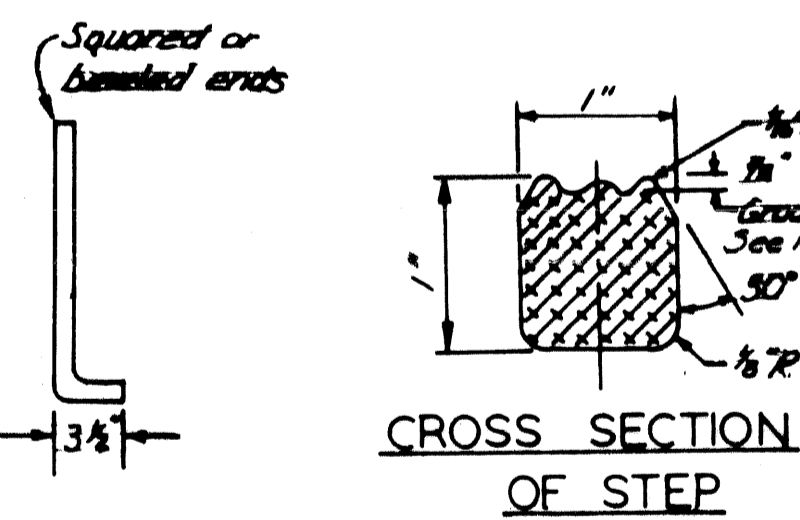
CAP SIZE	H	I	J	K	L	M	N
6"	0'-9"	1'-2"	3'-0"	1'-6"	2'-0"	1'-0"	1'-11"
8"	0'-9"	1'-2"	3'-0"	1'-6"	2'-0"	1'-0"	1'-11"
12"	0'-9"	1'-4"	4'-0"	2'-0"	3'-0"	1'-6"	2'-11"
16"	1'-0"	1'-8"	5'-0"	2'-6"	4'-0"	2'-0"	2'-8"

DETAIL OF STANDARD THRUST BLOCKS FOR PLUGS AND CAPS
Not to Scale



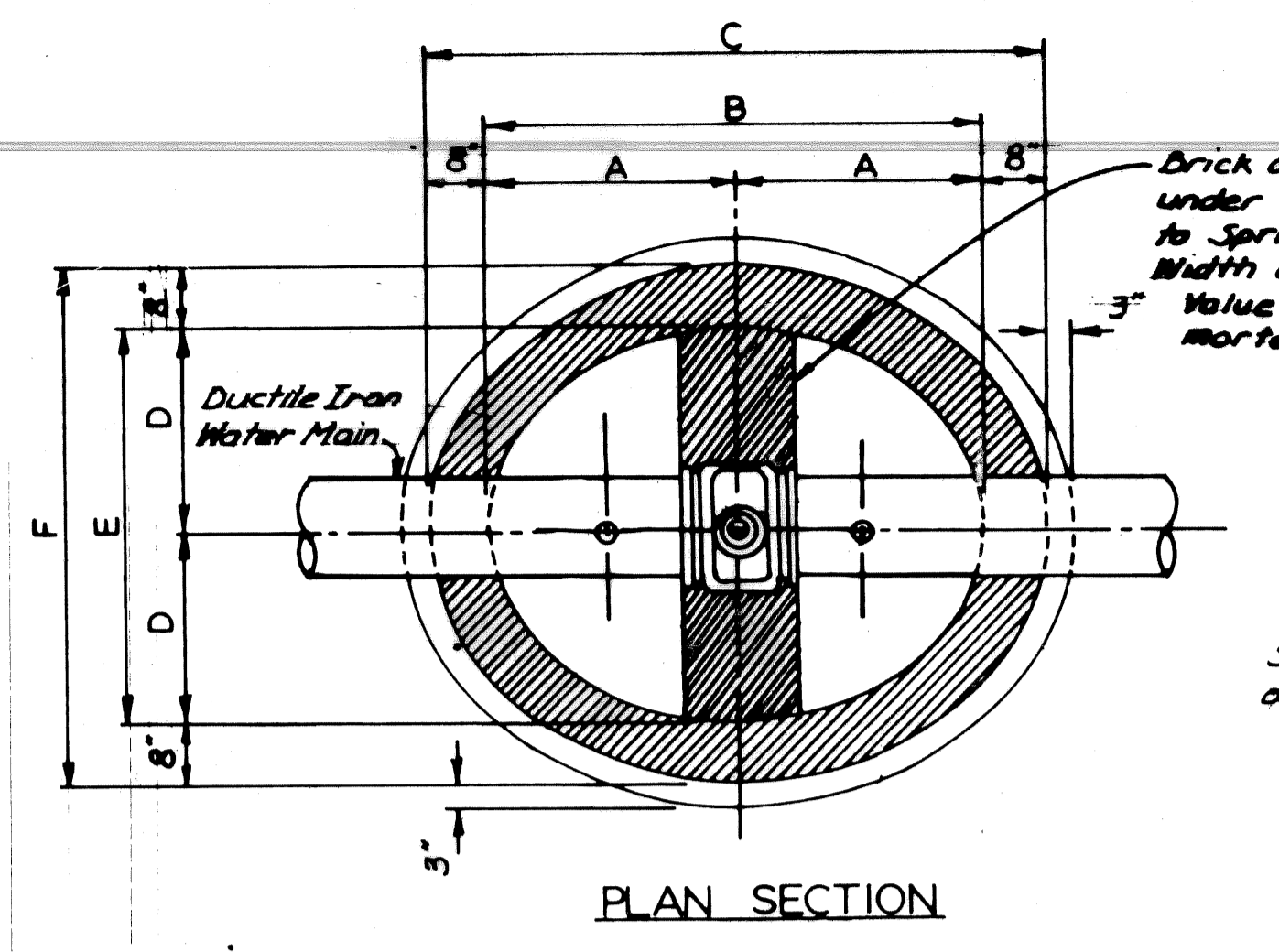
ALUMINUM MANHOLE STEP
Not to Scale

Note
Manhole steps shall conform to the requirements for "Aluminum Alloy Extruded Bars, Pools, Shapes and Tubes," ASTM B221 (current), Alloy 6061, Temper T-6, or approved equal.

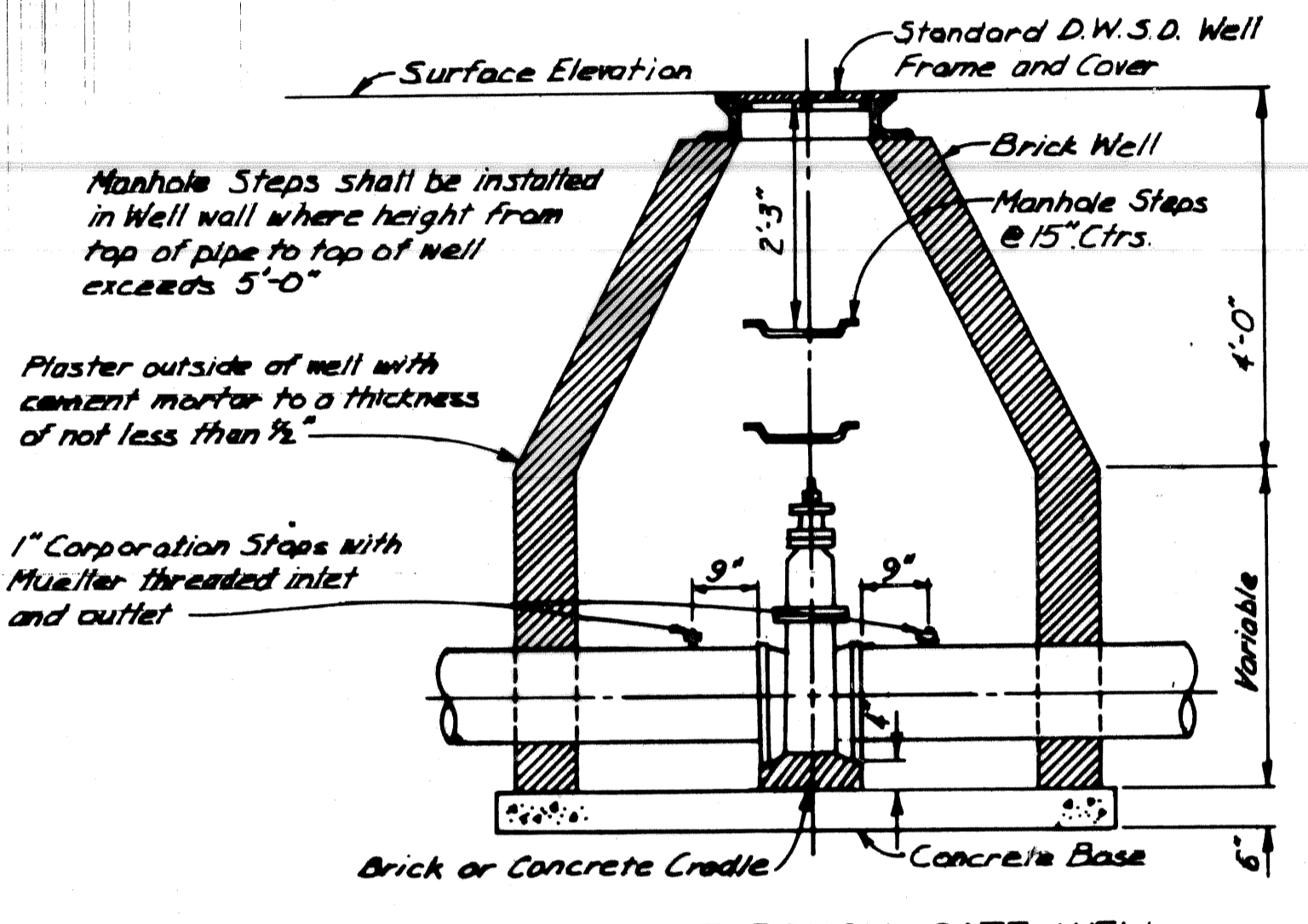


CROSS SECTION OF STEP

Note
1. In lieu of grooves, alternate foot hold configurations will be considered for approval.
2. Flared legs shall be radial to the manhole wall.



PLAN SECTION

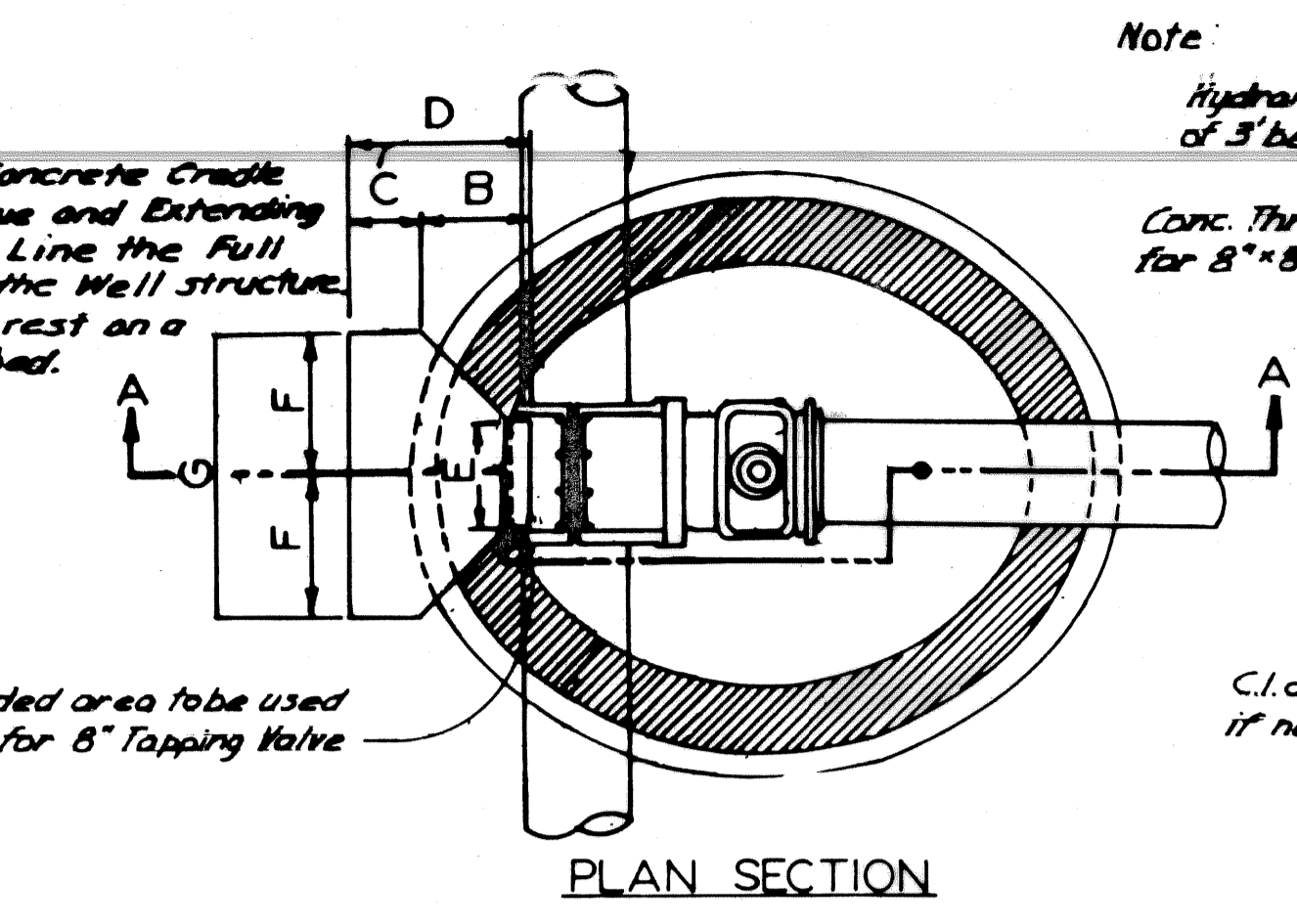


SECTION THROUGH GATE WELL

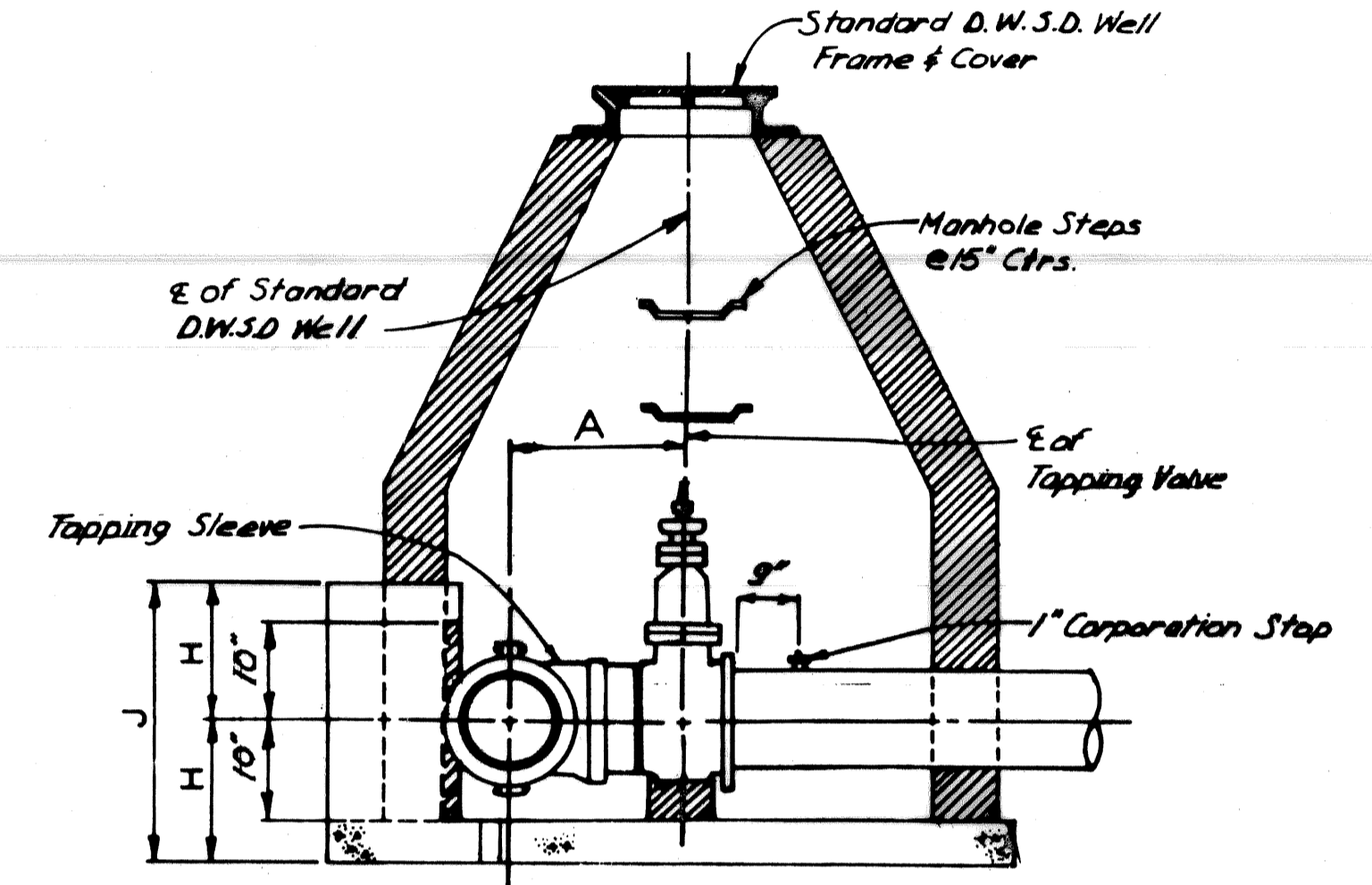
SCHEDULE OF GATE WELL DIMENSIONS

SIZE	A	B	C	D	E	F
6"	2'-6"	5'-0"	6'-4"	2'-0"	4'-0"	5'-4"
8"	2'-6"	5'-0"	6'-4"	2'-0"	4'-0"	5'-4"
12"	2'-9"	5'-6"	6'-10"	2'-3"	4'-6"	5'-10"
16"	3'-0"	6'-0"	7'-4"	2'-5"	5'-6"	6'-10"

DETAIL OF STANDARD GATE WELLS
Not to Scale



PLAN SECTION

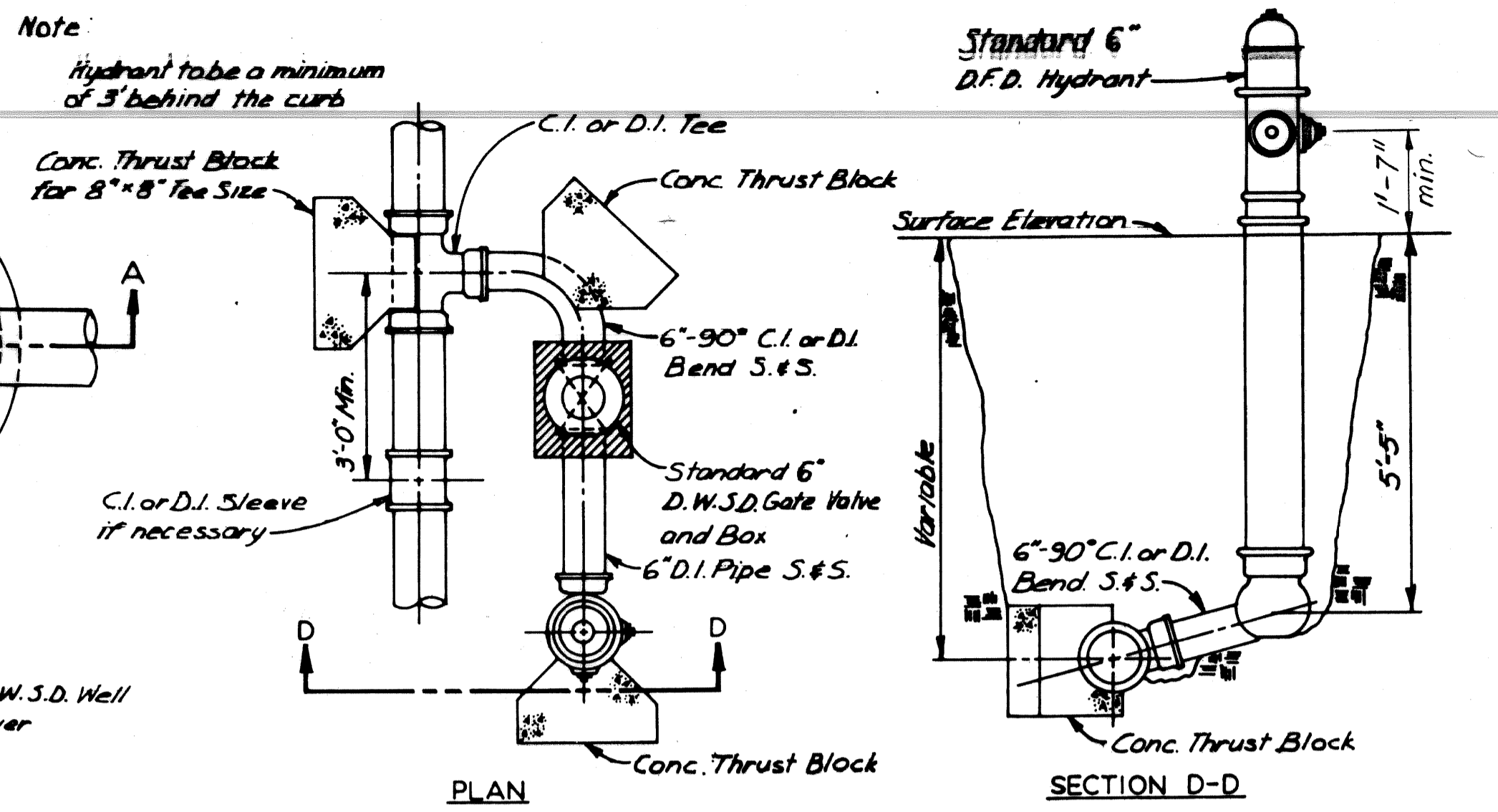


SECTION A-A

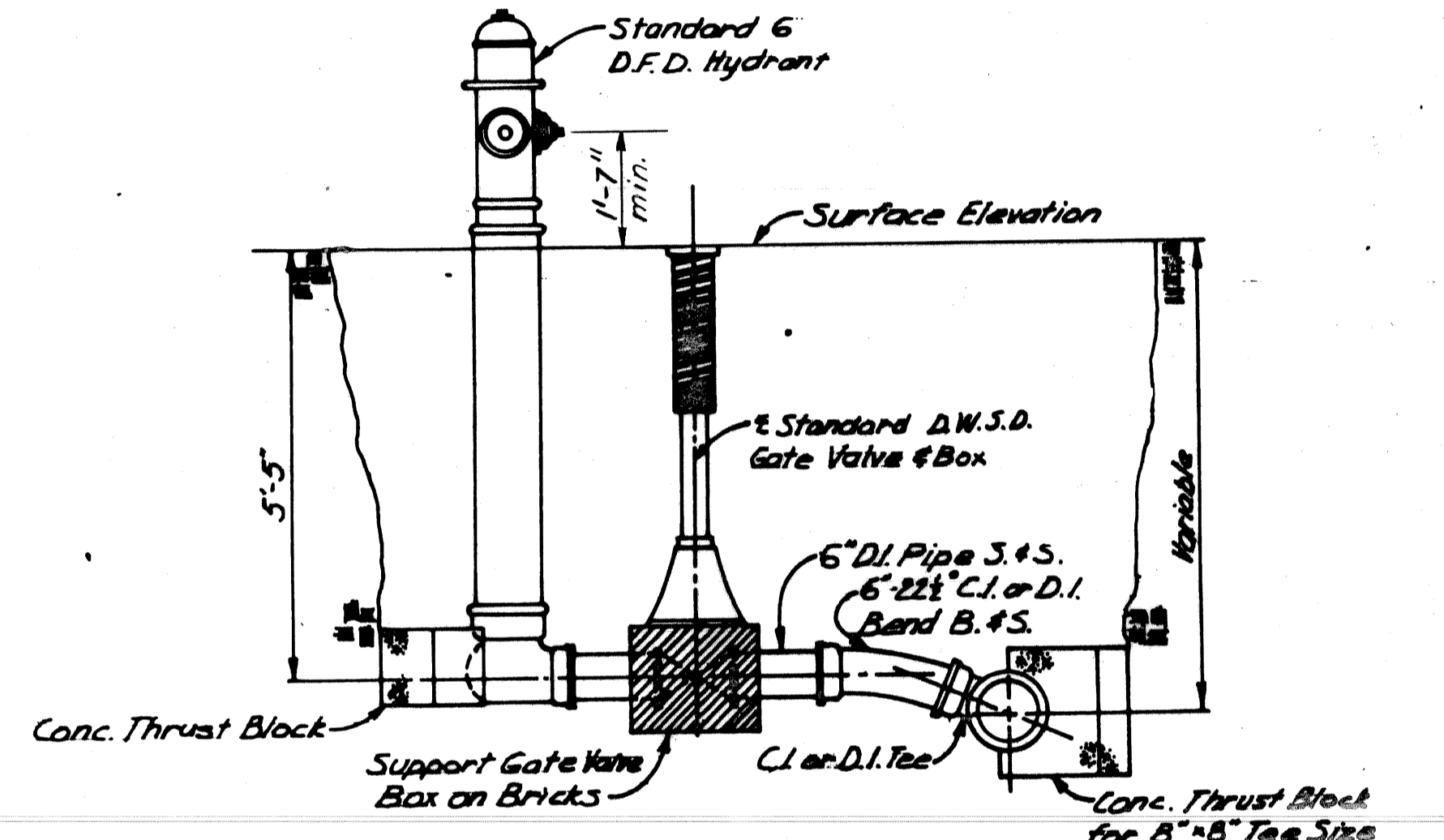
SCHEDULE OF STANDARD THRUST BLOCK DIMENSIONS FOR TAPPING VALVES

SIZE	A	B	C	E	F	G	H	J
8" x 8"	1'-6 1/2"			0'-7"				
12" x 8"	1'-9"			0'-7"				
16" x 8"	1'-11 1/2"			0'-7 1/2"				
12" x 12"	1'-8 1/2"	1'-6"	0'-9"	2'-3"	0'-7"	1'-9"	3'-6"	1'-6"
16" x 12"	1'-11 1/2"	1'-6"	0'-9"	2'-3"	0'-10 1/2"	1'-9"	3'-6"	1'-6"
16" x 16"	2'-2"	2'-7"	1'-0"	3'-7"	0'-10 1/2"	2'-11"	5'-10"	1'-8"

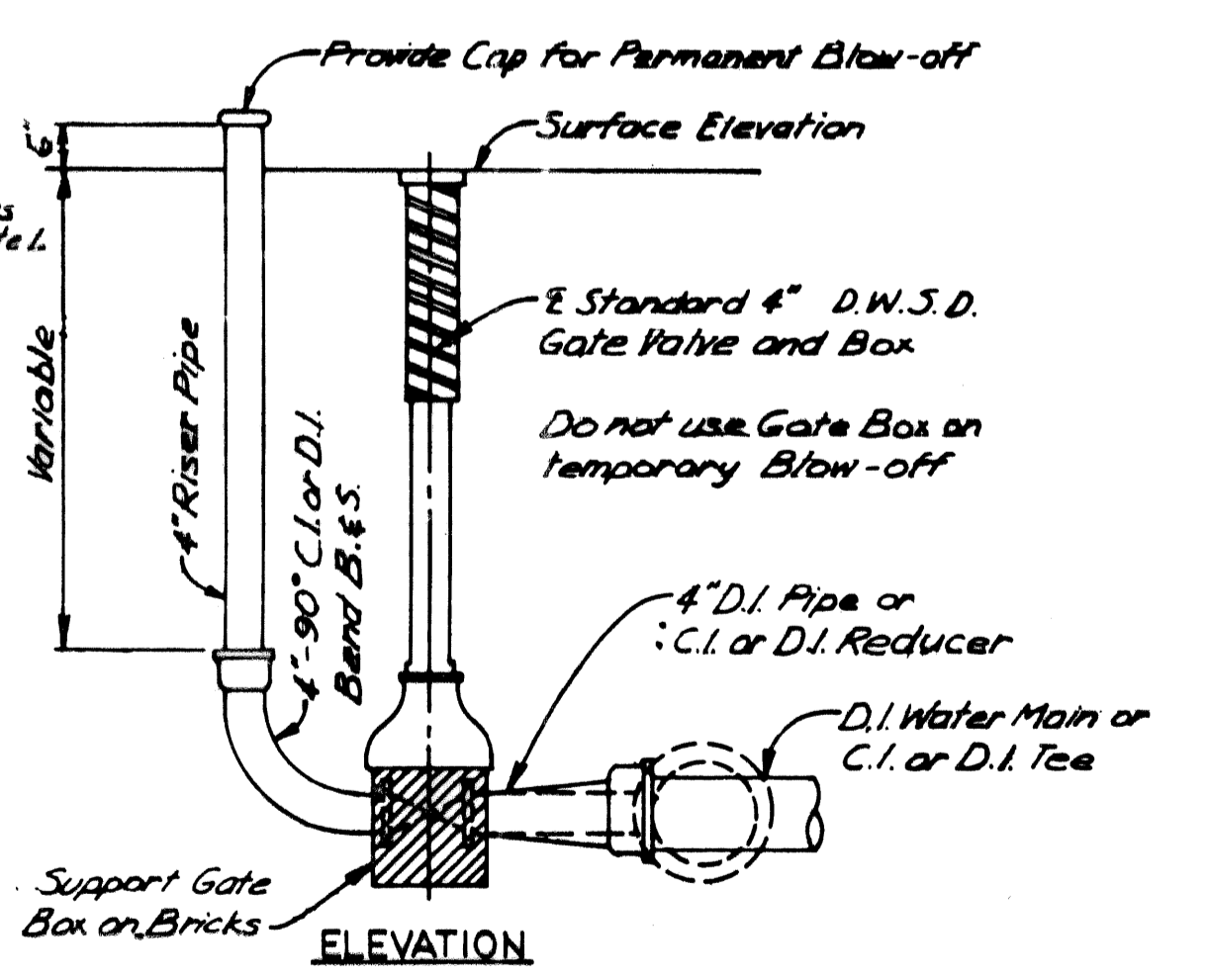
DETAIL OF STANDARD THRUST BLOCKS FOR TAPPING VALVES
Not to Scale



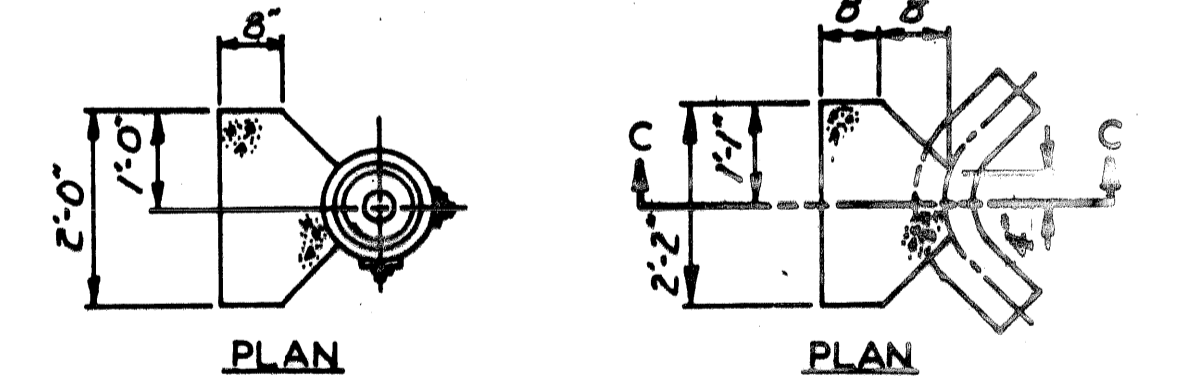
DETAIL OF 6" HYDRANT INSTALLATION OFF SET
Not to Scale



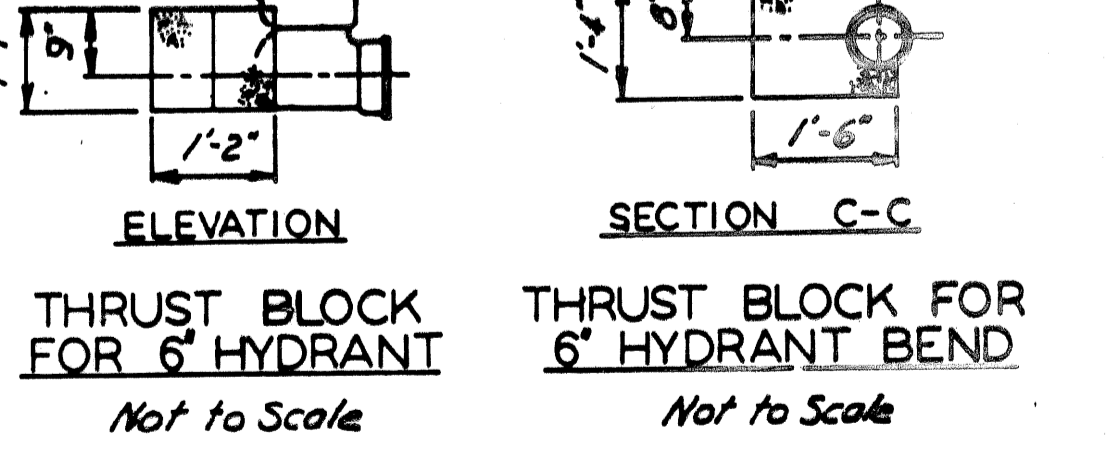
DETAIL OF 6" HYDRANT INSTALLATION STRAIGHT AWAY
Not to Scale



DETAIL OF 4" BLOW-OFF
Not to Scale



THRUST BLOCK FOR 6" HYDRANT
THRUST BLOCK FOR 6" HYDRANT BEND



Note
The bearing face of Thrust Blocks shall be poured against undisturbed earth.

DESIGNED BY		APPROVED		SHEET 25 OF 26	
DRAWN BY R.A.C.				CITY OF DETROIT WATER AND SEWERAGE DEPARTMENT SPECIAL STANDARDS	
CHECKED BY R.T.D.		DIRECTOR OF ENGINEERING		DATE APRIL 1998	
		DIRECTOR		SCALE AS SHOWN	
CO-OR.		DESCRIPTION		DATE	
REVISIONS		APRVD.		DATE	

QUANTITY SHEET

A S P E R P L A N S

WORK ITEM CODE NO.	ITEMS	SHEET NO'S.		PLANS											PAVEMENT MARKINGS		
		TOTALS	UNITS	TYPICAL CROSS SECTIONS	SHEET 6 CONSTRUCTION SEQUENCE	SHEET 7 CONSTRUCTION SEQUENCE	SHEET 8 CONSTRUCTION SEQUENCE	SHEET 9 CONSTRUCTION SEQUENCE	SHEET 10 CONSTRUCTION SEQUENCE	SHEET 11 10'-18.5' - 21'-0"	SHEET 12 21'-0" - 33'-0"	SHEET 14 33'-0" - 43'-31.34"	SHEET 15 GRANITON	PAVEMENT MARKINGS SHEET 20	PAVEMENT MARKINGS SHEET 21		
2070002	REMOVING PAVEMENT	17,800	SYD														
2070003	REMOVING CURB	200	LFT	200													
2070006	REMOVING SIDEWALK	3,870	SYD						3,870								
2070007	REMOVING MASONRY AND CONCRETE STRUCTURES	60	CYD						60								
2070009	REMOVING BEAM GUARDRAIL	315	LFT						315								
2070011	REMOVING TRACK ENCASUREMENT	2,000	CYD	2000													
2070012	REMOVING FENCE	175	LFT						175								
2070015	REMOVING DRAINAGE STRUCTURE	33	EACH						33								
2070016	ABANDONING DRAINAGE STRUCTURE	1	EACH	1													
2080001	EARTH EXCAVATION	2,030	CYD						650	620	510	250					
2080021	EMBANKMENT (CIP) GRANULAR MATERIAL CLASS II	940	CYD	940													
2080031	SUBGRADE UNDERCUTTING TYPE II	500	CYD	500													
3010021	AGGREGATE BASE UNDER CONCRETE (4" IN PLACE)	18,380	SYD						5750	5340	4460	2830					
4000001	REMOVING BITUMINOUS SURFACE	220	SYD	220													
4000047	BITUMINOUS MIXTURE 3C	40	TON	40													
4000049	BITUMINOUS MIXTURE 4C	40	TON	40													
4500040	CONCRETE PAVEMENT - NONREINFORCED B"	1,920	SYD						550	340	290	740					
4500173	CONCRETE PAVEMENT W/INTEGRAL CURB - REINFORCED 9"	16,320	SYD						5370	4950	4100	1900					
4520045	LANE TIE, PAVEMENT REPAIR	607	EACH						239	120	118	130					
5130429	CLASS C76-IV SEWER, 12", TRENCH DETAIL B	1,562	LFT						711	419	356	76					
5130430	CLASS C76-IV SEWER, 15", TRENCH DETAIL B	491	LFT							13	478						
5130431	CLASS C76-IV SEWER, 18", TRENCH DETAIL B	1,068	LFT							448		620					
5137001	CLASS C76-IV SEWER, 21", TRENCH DETAIL B	20	LFT							1		20					
5130624	SEWER TAP, 12"	4	EACH														
5130625	SEWER TAP, 15"	1	EACH														
5137050	SEWER TAP, 21"	1	EACH														
5140025	ADJUSTING WATER SHUTOFF	25	EACH	25						1							
5140045	ADJUSTING DRAINAGE STRUCTURE COVER, CASE 1	1	EACH	1													
5140046	ADJUSTING DRAINAGE STRUCTURE COVER, CASE 2	1	EACH	1													
5140070	SEWER TRAP, 12"	26	EACH						9	5	8	4					
5147001	MISC. SEWER CLEANOUT-NON-PARTICIPATING	100	LFT	100													
5147030	MISC. STRUCTURE COVER	700	LBS	700													
5147050	MISC. CLEANING DRAINAGE STRUCTURE-NON-PARTICIPATING	6	EACH	6													
5147050	MISC. RECONSTRUCTING DRAINAGE STRUCTURE, CASE 1	1	EACH	1													
5147050	MISC. CATCH BASIN "A"	5	EACH						2	3							
5147050	MISC. CATCH BASIN "B"	27	EACH						9	6	8	4					
5147050	MISC. MANHOLE - STANDARD	20	EACH						5	6	5	4					
6097001	MISC. CONCRETE CURB, DETAIL "X"	150	LFT	150													
6110002	CONCRETE SIDEWALK, 4"	64,620	SFT						17,700	21,230	22,700	2990					
6110003	CONCRETE SIDEWALK, 6"	6,480	SFT						3200	1740	1540						
6117010	MISC. SIDEWALK RAMPS - MODIFIED	1,860	SFT						940	190	380	350					
6130002	GALVANIZED BEAM GUARDRAIL, TYPE "B"	275	LFT							275							
6137050	GUARDRAIL ANCHORAGE, CABLE, SRT	2	EACH							2							
6210003	BARBED WIRE	480	LFT							480							
6210013	CHAIN LINK FENCE 72"	160	LFT							160							
6210041	GATE B' FOR CHAIN LINK FENCE 72"	2	EACH							2							
6220001	FIELD OFFICE	6	MOS	6													
6230001	MOBILIZATION	1	LSUM	1													
6290311	INLAY COLD PLASTIC PAVEMENT MARKING, 4", YELLOW	5744	LFT										3740	2004			
6290320	INLAY COLD PLASTIC PAVEMENT MARKING, 18", STOPBAR	255	LFT										198	57			
6290322	INLAY COLD PLASTIC PAVEMENT MARKING, 6", CROSSWALK	276	LFT										276				
6290334	INLAY COLD PLASTIC PAVEMENT MARKING, RAILROAD SYMBOL	3	EACH										2	1			
6310011	LIGHTED ARROW, TYPE A - FURNISHED	3	EACH														
6310012	LIGHTED ARROW, TYPE A - OPERATED	3	EACH														
6310026	BARRICADE, TYPE II, LIGHTED - FURNISHED	186	EACH														
6310027	BARRICADE, TYPE II, LIGHTED - OPERATED	186	EACH														
6310036	BARRICADE, TYPE II, LIGHTED - FURNISHED	9	EACH														
6310037	BARRICADE, TYPE II, LIGHTED - OPERATED	9	EACH														
6310054	MINOR TRAFFIC DEVICES	1	LSUM	1													
6310055	FLAG CONTROL	1	LSUM	1													
6310057	SIGN, TYPE B TEMPORARY	482	SFT														
6310086	TEMPORARY PAVEMENT MARKING, TYPE R, 4", YELLOW	13,800	LFT	13,800													
6530001	CLASS A SODDING	830	SYD							830							
6530003	WATER	2	UNIT	2													
6530008	CEREAL RYE SEEDING	64	LBS														
6530025	TOPSOIL SURFACE, (LM)	2,230	SYD							830		64					
6807050	MISC. REMOVE HYDRANT METHOD I	1	EACH														
6807050	MISC. REMOVE HYDRANT METHOD II	1	EACH														
6807050	MISC. FIRE HYDRANT	2	EACH														
	POLE RELOCATE (PLD)	2	EACH														
	POLE RELOCATE (DETROIT EDISON)	1	EACH														
	REMOVE POLE (DETROIT EDISON)	1	EACH														



PLAN ESTIMATE BY J.F.,S.G./D.M. DATE CHECKED BY DATE DATA COMPLETED PROJ. ENG. DATE HISTORY CHECKED ON PLANS BY SHEET OF SHEETS

PLAN	BY CMK	CHECKED BY JWF/DPM	APPROVED:	CITY OF DETROIT DEPARTMENT OF TRANSPORTATION TRANSPORTATION ENGINEERING	RECONSTRUCTION OF CLAY / ST. AUBIN FROM NB I-75 (CHRYSLER) SERVICE DRIVE TO SOUTH OF DENTON	SHEET 26 OF 26 SHEETS
GRADE			ENGINEER OF STREETS			CONTRACT NO.
ESTIMATE	JWF	DPM				ASSIGNMENT NO.
DESCRIPTIONS	DR'N	CK'D	AP'VD			DATE

QUANTITY SHEET

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