

MISCELLANEOUS QUANTITIES

36 FT BRIDGE RAILING, AESTHETIC PARAPET TUB, MODIFIED

24 CYD SUBSTRUCTURE CONC.

1 LS SUBSTRUCTURE CONC. FORM FINISH AND CURE (C01 OF 63821) 2009 LB REINFORCEMENT STEEL, EXPOXY COATED

LEGEND

EA BAR



BAR LEGEND

EPOXY COATED STEEL REINFORCEMENT

BAR	NO. REQ'D	TOTAL WT
EA041702	12	138
EA040600	12	48
EA040703	54	262
EA061007	48	763
EA060704	54	595
EA040800	20	107
EA040702	20	96

NOTES:

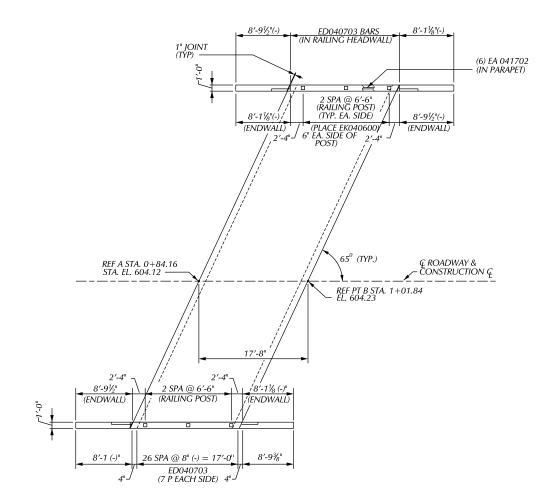
FOR NAME PLATE LOCATION, SEE GENERAL PLAN OF STRUCTURE SHEETS.

FOR BRIDGE RAILING, ANCHORAGE FOR GUARDRAIL AND NAME PLATE MOUNTING DETAILS, SEE STANDARD PLAN B-25 SERIES. FOR DETAILS OF NAME PLATES MOLDINGS AND BEVELS, SEE STANDARD PLAN B-103 SERIES.

A RUBBED SURFACE FINISH ON THE VERTICAL AND TOP CONCRETE SURFACES OF THE PARAPET RAILING IS REQUIRED ON THIS STRUCTURE.

LOW TEMPERTURE PROTECTION OF CONCRETE SHALL BE APPLIED ACCORDING TO SECTION 706.031. OF THE STANDARD SPECIFICATIONS FOR CONSTRUCTION. LOW TEMPERATURE PROTECTION OF CONCRETE WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE INCLUDED IN THE BID "SUPERSTRUCTURE CONC".

THE UTILITY COMPANY SHALL BE NOTIFIED 10 WORKING DAYS IN ADVANCE FOR REMOVAL OF EXISTING LIGHT STANDARDS AND 10 WORKING DAYS IN ADVANCE OF THE TIME OF INSTALLATION OFTHE PROPOSED DUCTS IN THE SIDEWALK.



PLAN OF RAILING

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

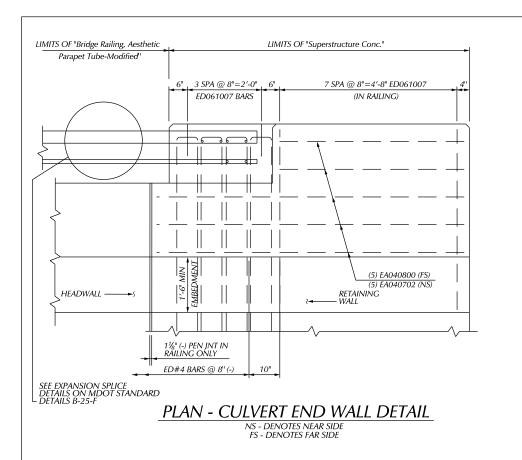
WEST PARKWAY CULVERT OVER ASHCROFT - SHERWOOD DRAIN

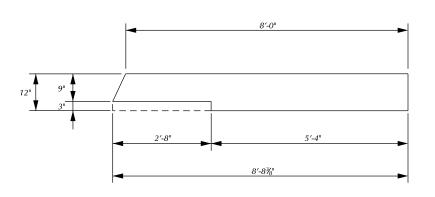
SHEET 38 OF 39 SHEETS
C O N T R A C T
N O. PW-6987

CULVERT & RETAINING WALL RAILING DETAILS

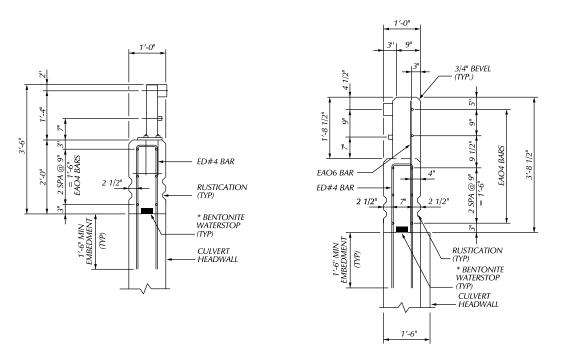
A S S I G N M E N T N O .

D A T E 01/24/2018



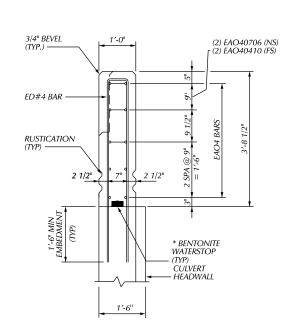






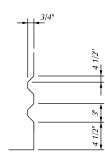
SCALE HORIZONTAL

TYPICAL CULVERT RAILING SECTION SECTION AT CULVERT END WALL



ELEV

SECTION AT CULVERT END WALL



RUSTICATION DETAIL

NOTES:

* BENTONITE WATERSTOP SHALL NOT BE PAID SEPARATELY BUT ARE INCLUDED IN PAYMENT FOR "BRIDGE RAILING, AESTHETIC PARAPET TUBE-MODIFIED"

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

WEST PARKWAY CULVERT OVER ASHCROFT - SHERWOOD DRAIN

ETAILS ASSIGNA

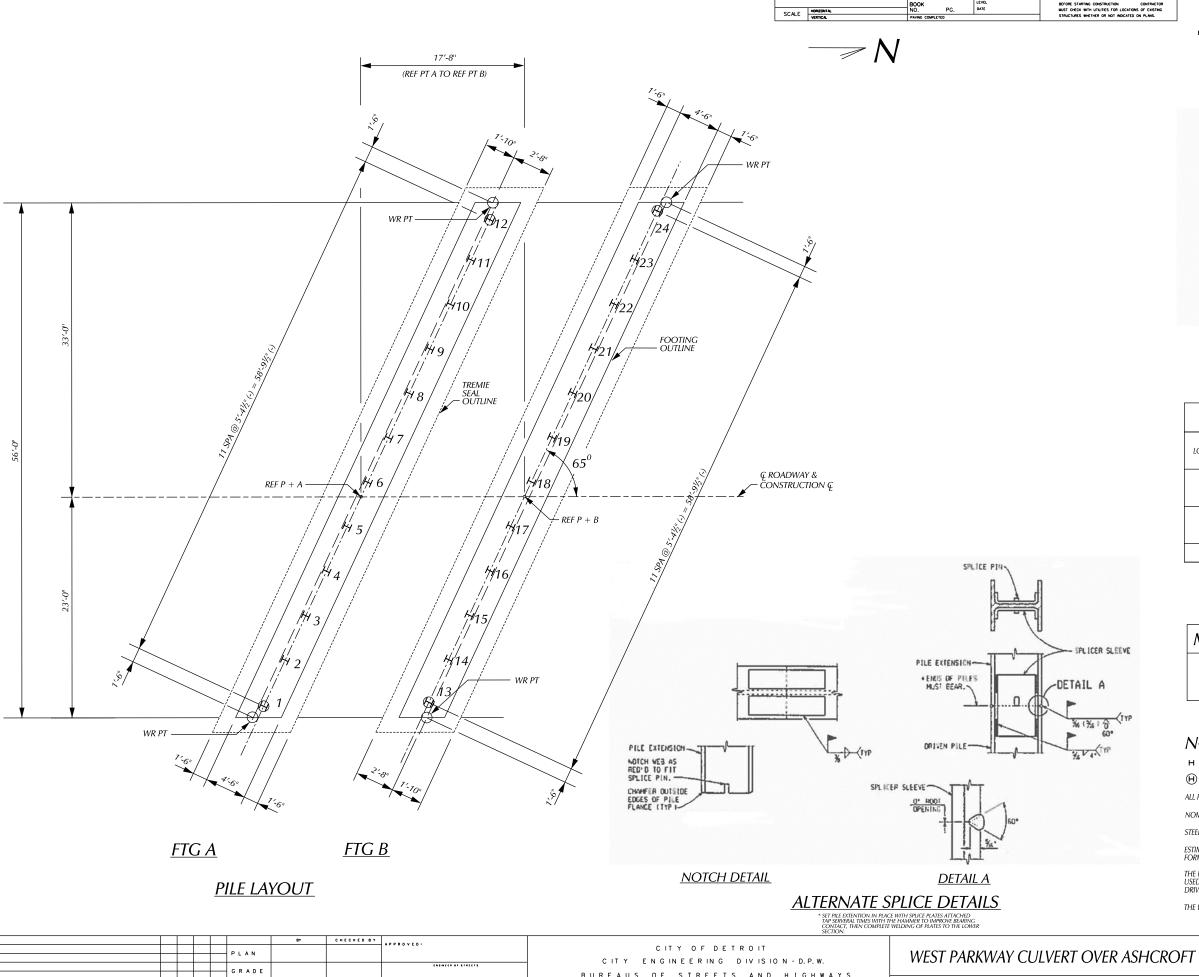
CULVERT & RETAINING WALL RAILING DETAILS

C O N T R A C T PW-6987

A S S I G N M E N T N O .

D A T E 01/24/2018

SHEET 39 OF 39 SHEET



PILE EXTENSION-DRIVEN PILE

SPLICE DETAILS

PILE EXTENTION IN PLACE WITH SPLICE PLATES ATTAC
SERVERAL TIMES WITH THE HAMMER TO IMPROVE BE
ATMACT, THEN COMPLETE WELDING OF PLATES TO THE

55	55 TON STEEL "H" PILES												
LOCATION	PILE	NUMBER OF		ESTIMATED LENGTH FURNISHED & DRIVEN									
LOCATION	TYPE	PILES	EACH LFT	TOTAL LFT	ELEV.								
FTG A	TEST	2	35	70	566.00								
TIGA	VERTICAL	10	25	250	566.00								
FTG B	TEST	2	30	70	566.00								
VERTICAL		10	25	250	566.00								
TOTAL				640									

MISCELLANEOUS QUANTITIES

1 LS PILE DRIVING EQUIPMENT, FURN 640 FT PILE STEEL, FURN AND DRIVEN, 10 INCH

NOTES:

H - DENOTES VERTICAL PILES.

 $\begin{picture}(40,0)\put(0,0){\line(1,0){10}}\put(0,0){\line(1,0){10}$

ALL PILES SHALL BE DRIVEN TO A MINIMUM BEARING CAPACITY OF 55 TONS.

NOMINAL DRIVING RESISTANCE Rndr OF PILES SHALL BE 275 KPS

STEEL PILES SHALL BE HP 10 X 42.

ESTIMATED PILE PENETRATIONS HAVE BEEN DETERMINED BY USE OF THE STATIC FORMULA.

THE PILE DRIVING FORMULAS IN THE STANDARD SPECIFICATIONS ARE NOT TO BE USED TO DETERMINE BATTERED PILE CAPACITY. BATTERED PILES ARE TO BE DRIVEN TO THE EVEVATION ESTABLISHED FOR VERTICAL FILES.

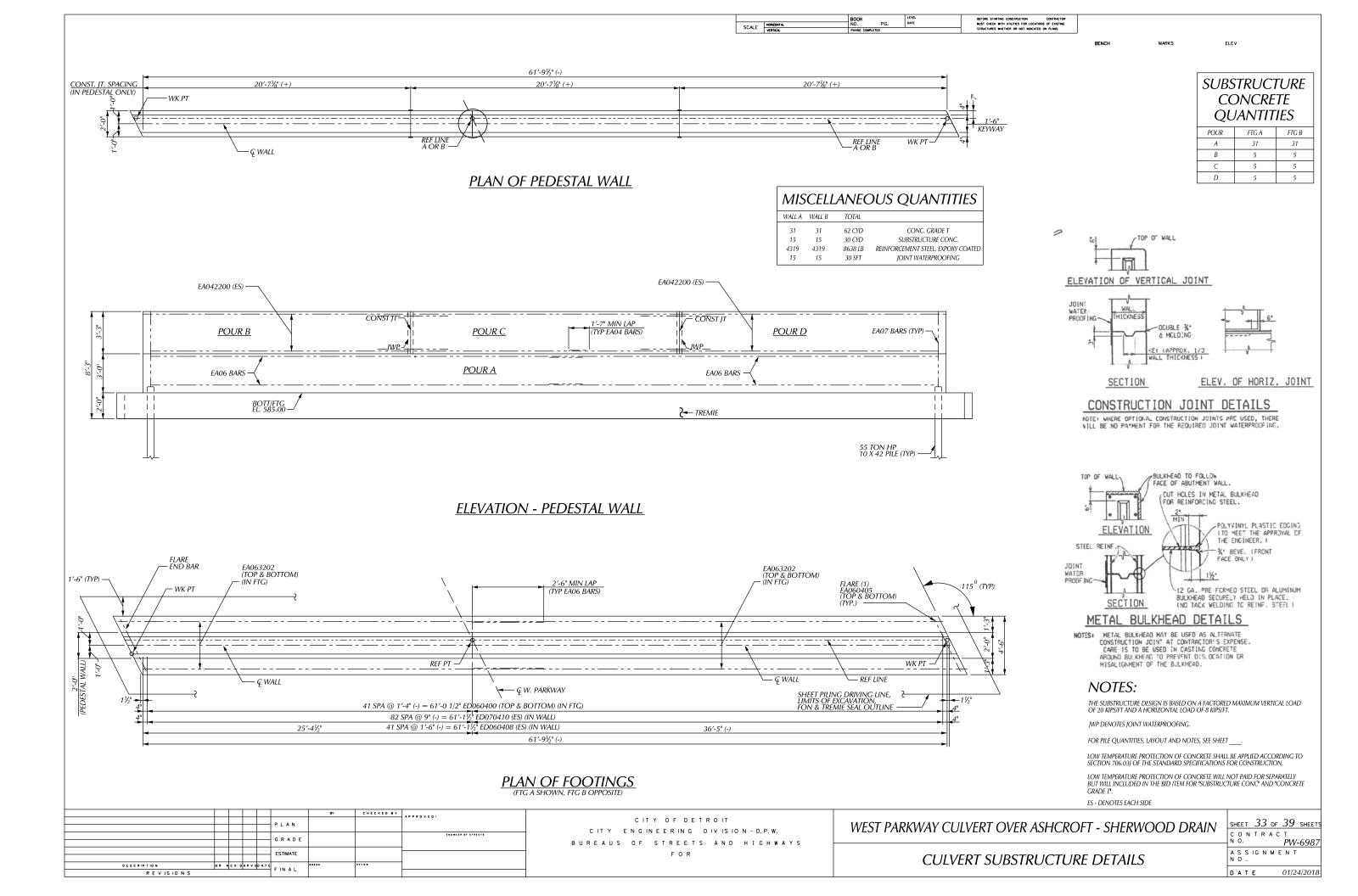
THE USE OF VIBRATORY HAMMERS FOR INSTALLING H-PILES SHALL NOT BE ALLOWED.

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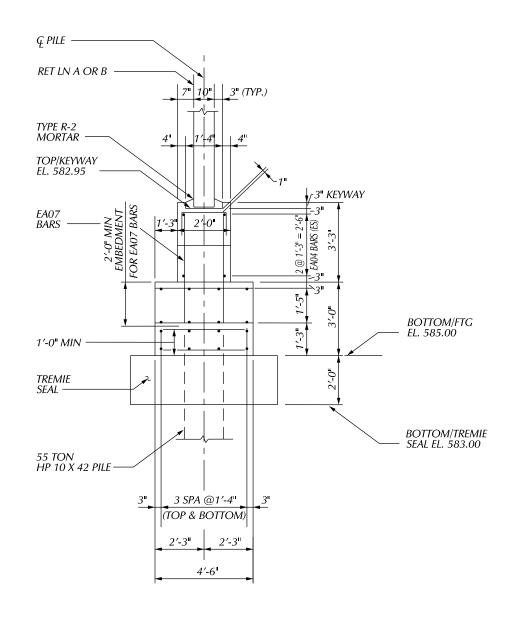
WEST PARKWAY CULVERT OVER ASHCROFT - SHERWOOD DRAIN

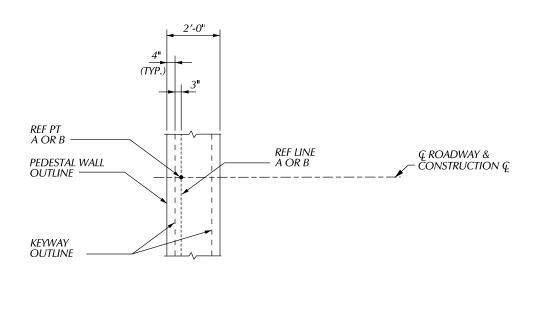
SHEET 32 OF 39 SHEETS
C O N T R A C T ASSIGNMENT NO.

CULVERT H PILE LAYOUT



SCALE HORIZONTAL VERTICAL





DETAIL A

EPOXY COATED STEEL REINFORCEMENT NO. REQ'D
 E070410
 332
 1639
 1639

 EA060400
 168
 505
 505

 EA060410
 168
 610

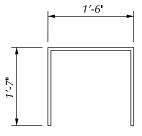
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 32
 773

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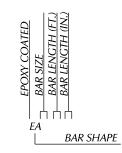
 EA060408
 168
 588

 EA060405
 8
 27

 EA042200
 24
 177



ED060410



BAR LEGEND



EA BAR

SECTION THRU PEDES	TAL WALL

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CITY OF DETROIT CITY ENGINEERING DIVISION - D.P.W. BUREAUS OF STREETS AND HIGHWAYS F O R

WEST PARKWAY CULVERT OVER ASHCROFT - SHERWOOD DRAIN

SHEET 34 OF 39 SHEETS CONTRACT NO. PW-6987

CULVERT SUBSTRUCTURE DETAILS

A S S IG N M E N T N O . 01/24/2018

ACHET W. M.H. (ERISE M.H. 10'2) EA. 2 /HL. SPIO (ERANIL REMOLE CONC. LOCK TOP LYDS ARCH CHLVET DAVING SICE SOVE 432 13 ARCH CHLVET DAVING SICE SOVE 432 13 ARCH CHLVET 4027 625 58-4 VJ CONTRACT NO. P.W. 3249 F QUANTITIES H Smart STREET PAVING PLAN NO. F.C.C. DATE 6-4-57 ONTRACTOR MUST CHECK WITH UTILITIES FOR LOCATION OLD MAP 3-30-15 761 CITY OF DETROIT NO. 325 - CO - Z Added Note X' 6-12-58 J.E.

QUANTITY CHANGE FOR ALLEY

25-58 ESTURY ESTOVAL (SEE SHEET FOR SHEET NO. 2 SEE MEADOW DEPARTMENT OF PUBLIC WORKS - CITY ENGINEERS OFFICE 4008+ 1. 4161201 60 OTS & ALLEYS 1"= 60 NAME OF WEST PARKWAY 5Q. FI 2039.62 1019.81 TREET WIDTH 1: 60 5.5 232.88 116.44 FROM 959.21' 5. OF 5.L. CHICAGO VERTICAL 1" 10 Wwallace TAL 2272.50 1136.25 ENGINEER OF STREET 33 N. OF S.L. CHICAGO DRAINAGE COMPLETED 10 PAVING COMPLETED C.C. 8-4-59 500 CONTRACTOR TO MAINTAIN FLOW DURING CONSTRUCTION M.H. & BASINS IN MEADOWPARK FORCED COMMON COUNCIL 6-4-57 2 MARKS P.B.M " 118.251 N.E COR CHICAGO SEE NOTEX' HYD N.W. COR DOVER & WEST PARKWAY 122.23
HYD N.W. COR DOVER & WEST PARKWAY 122.23
HYD N.W. COR DOVER & WEST PARKWAY-141.02
P.B.M 118-250 S.W. COR. JOY RD
NOTE: FOR SYMBOLS @ ETC, SEE STD. DET. DW6.C-327 WATER 168 231.Zd 86 220 LIN FT 207.73 399.26 No 170 132 O'UNIFORM CONCRETE WALK SEE SHEET "3 122/ TYPICAL X SECTION OF FILL 989 S ORDINANCE GRADE 95921 CONTRACTOR TO REMOVE
TOP SLAB OF CONCRETE
CULVERT & ALL WOOD
PORTIONS OF SIDEWALK TO 12 TO 1 SLOPE NOTE TO ASSESSORS 405 LIN. FT ASSESSED COST ACCORDING TO GUARD RAIL R 2 FT 22 A GRAVEL UNDER 240 CU YD5 ANY PIPE SEWERS PORTIONS
FOUND AT EAST END TO THE TOTAL BENEFITS DERIVED FOR A 1 SUB-BASE MATERIAL SAND GRAVEL TO BE LAID IN 8"LAYERS & COMPACTED TO 90% MAX LABORATORY DENSITY. PARK 30 RESIDENTIAL STREET ROUGE 9 ANY TYPE EARTH APPROVED BY APPROVED CORR PLATE TYPE GUALD RAIL ON METAL POSTE WHERE SHOWN 62 01 62 01 PLANS Ø 6 2.46 % 200 @ 5.0% 132 INVERT LENGTH RAISE INVERT OF CULVERT APPOX .25' TO CLEAR 411381 "ARMICO" MULTI-PLATE PIPE ARCH OR EQUIVALENT

SCALE VERTICAL

EXISTING

FOR INFORMATION ONLY

DO NOT WORK FROM THIS SHEET. THE INFORMATION SHOWN HERE IS FOR REFERENCE ONLY. NO PAY ITEMS ARE SHOWN.

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F O R

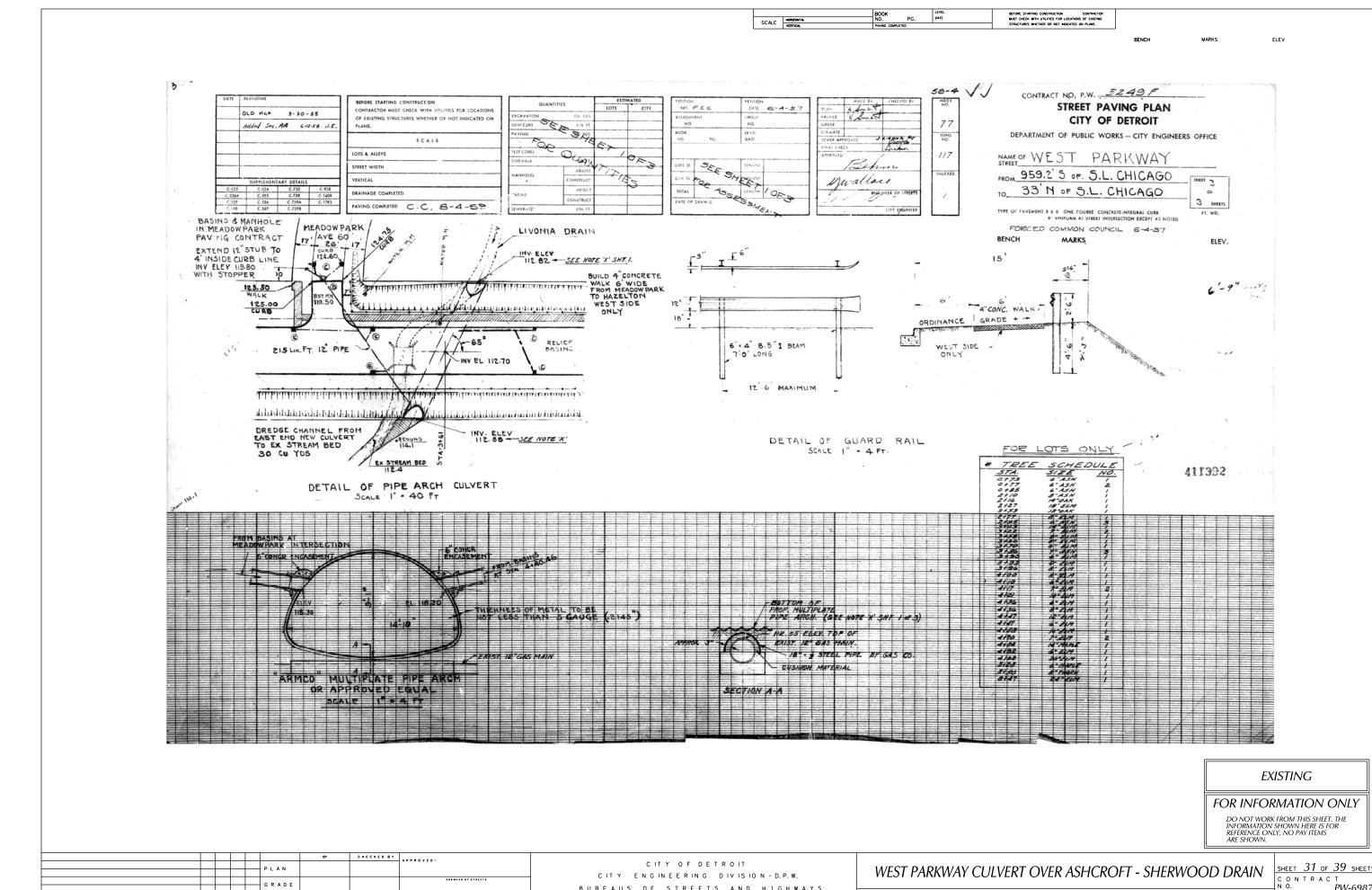
WEST PARKWAY CULVERT OVER ASHCROFT - SHERWOOD DRAIN

SHEET 30 OF 39 SHEETS
C O N T R A C T
N O. PW-6987
A S S IG N M E N T

EXISTING STREET PAVING PLAN

NO.

DATE 01/24/2018



BUREAUS OF STREETS AND HIGHWAYS

FOR

PW-6987

01/24/2018

ASSIGNMENT NO.

DATE

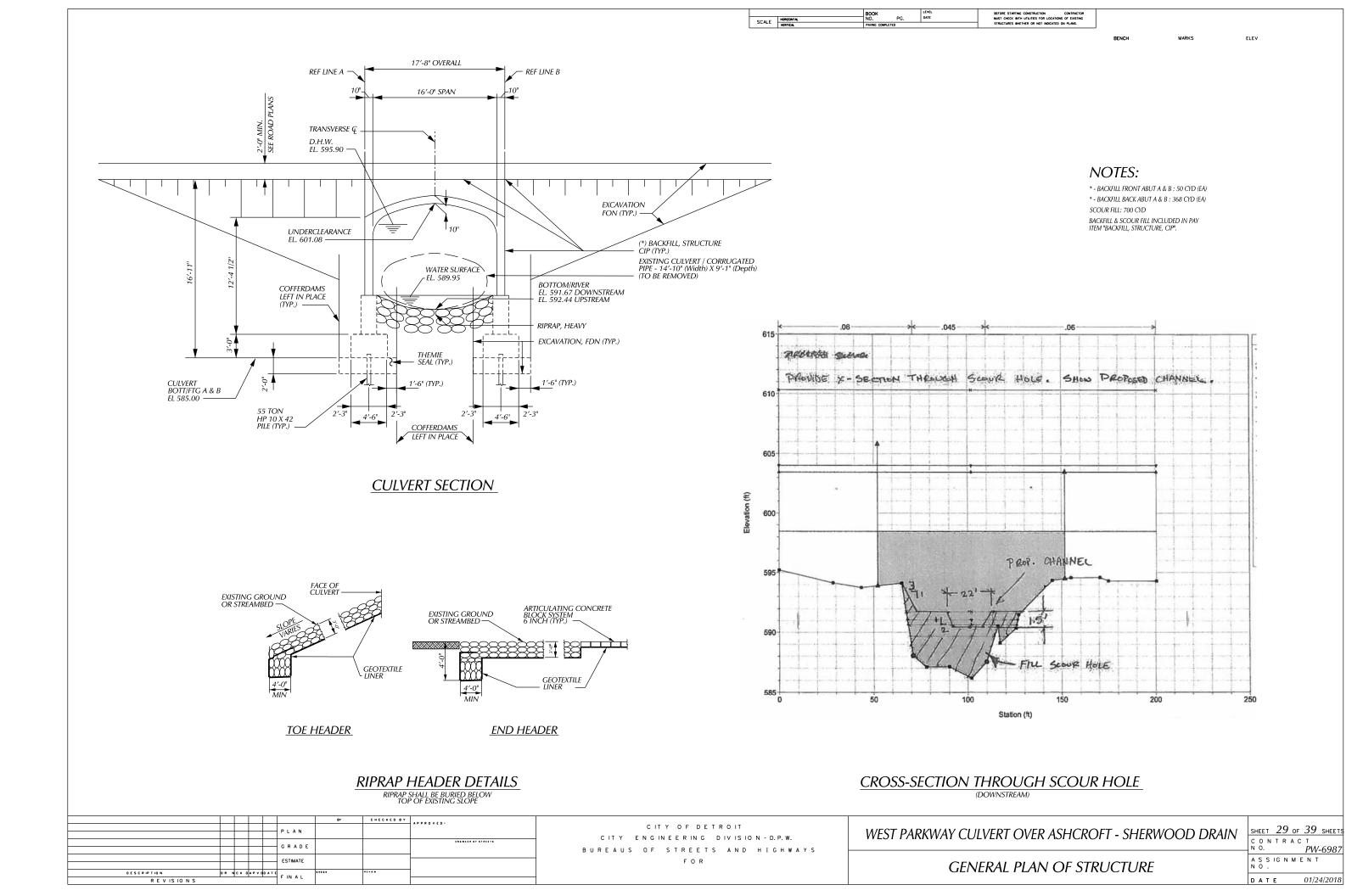
EXISTING PLAN

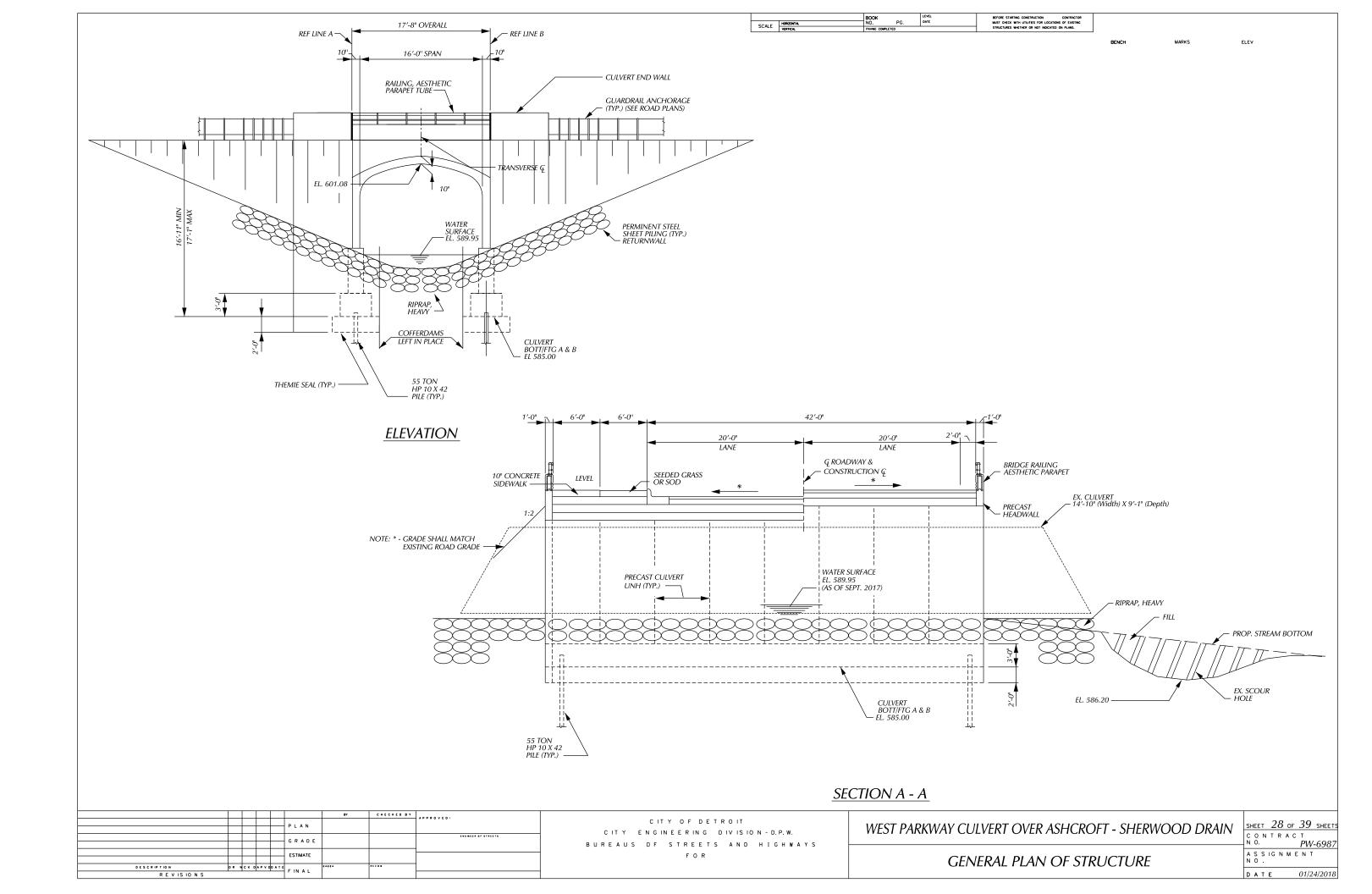
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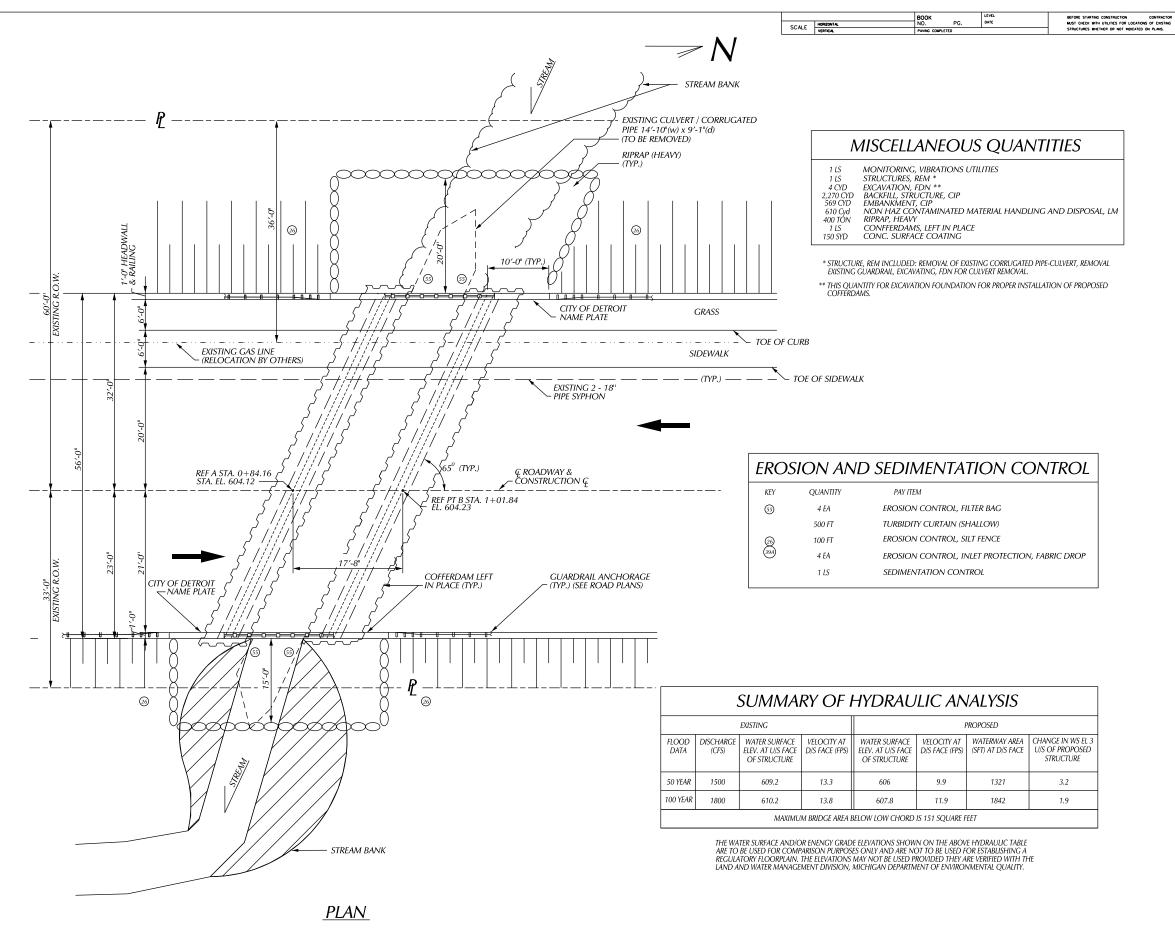
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DR NCK DAPY ODATE

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CITY OF DETROIT

CITY ENGINEERING DIVISION - D.P.W.

F O R

BUREAUS OF STREETS AND HIGHWAYS

CHECKED BY

DR NCK DAPVODATE

REVISIONS

APPROVED

NOTES:

THE DESIGN OF THIS STRUCTURE IS BASED ON CURRENT AASHTO STANDARDS SPECIFICATIONS FOR HIGHWAY BRIDGES HS25 LOADING. THE LOAD FACTOR METHOD OF DESIGN WAS USED FOR THIS STRUCTURE.

THE REMOVAL OF THE EXISTING STRUCTURE, SLOPEWALLS AND GABIONS IS INCLUDED IN THE PAY ITEM, "STRUCTURE, REM". SEE "STRUCTURES REMOVAL SEQUENCE" ON SHEET.

REMOVAL OF THE EXISTING SUBSTRUCTURE UNITS SHALL BE ISOLATED FROM THE WATERWAY USING TEMPORARY STEEL SHEET PILING. TEMPORARY SHEETING FOR THE REMOVAL SHALL ADHERE TO THE SAME REQUIREMENTS FOR CONSTRUCTION AND DE-WATERING AS THE COFFERDAM. TEMPORARY SHEETING SHALL BE CUT OFF 1'-0" BELOW FINISH GRADE AND SHALL NOT INTERFERE WITH PROPOSED CONSTRUCTION. ALL COST ASSOCIATED WITH THE TEMPORARY SHEETING IS INCLUDING IN THE REMOVAL ITEMS.

DURING WORK ON THE EXISTING AND PROPOSED RETAINING WALLS CASE SHALL BE TAKEN TO PREVENT ANY MATERIAL FROM ENTERING THE WATERWAY. THE CONTRACTOR SHALL PROPOSED A SYSTEM FOR PROTECTION OF THE WATERWAY & SUBMIT IT TO THE ENGINEER FOR APPROVAL. PAID FOR AS 'SEDIMENTATION CONTROL". SEE SPECIAL PROVISION.

PAYMENT FOR FALSE DECKING SHALL BE BASED ON THE AREA OF THE EXISTING ARCH BARREL OVER THE WATERWAY REGARDLESS OF THE SIZE OF THE BARGE OR PLATFORM USED. THE CONTRACTOR SHALL TAKE CARE NOT TO ALLOW THE EXISTING EARTH FILL TO FALL INTO THE WATERWAY

GEOTEXTILE LINER SHALL BE PLACED ON ALL SLOPES PRIOR TO PLACING RIPRAP. PAYMENT TOO GEOTEXTILE LINER SHALL BE INCLUDED IN THE PAYMENT FOODSPIRAD IN THE PLACE OF THE PAYMENT OF THE PAYMEN

THE EXISTING STRUCTURE PROVIDES A WATERWAY AREA OF 91 SQUARE FEET. TO UNDERCLEARENCE ELEVATION 592.15.

WITHOUT THE PREVENTIVE MEASURES SHOWN ON THESE PLANS, THERE IS A POSSIBLILITY THAT STREAM BED SCOUR MAY OCCUR. THE ESTIMATED TOTAL SCOUR DEPTH IS CALCULATED TO BE 12.6 AT ABUMENT A AND 12.6 AT ABUMENT B. THESE DEPTHS ARE BASED ON A 100 YEAR RUNOFF EVENT.

THE DRAINAGE AREA CONTRIBUTORY TO THIS CROSSING IS SQUARE MILES.

BROKEN CONCRETE SHALL NOT BE USED AS RIPRAP.

THE TREMIE SEAL DESIGN WAS BASED ON A WATER SURFACE AT EL. 580.00.

THE WIDTH OF THE TREMIE UNDER THE STRUCTURE MAY NOT BE INCREASED EXCEPT IN THE SOUTHWEST QUADRANT IN THE VICINITY OF THE EXISTING AND PROPOSED SANITARY SEWER.

THE USE OF VIBRATORY HAMMERS FOR INSTALLATION COFFERDAM SHALL NOT BE

DEWATERING OF THE COFFERDAM IS TO BE MADE THRU FILTER BAGS UNTIL COMPLETION OF THE TREMIE SEAL. ALL COST ASSOCIATED WITH DEWATERING ARE THE REPONSIBILITY OF THE CONTRACTOR.

COFFERDAMS IN STREAM SHALL BE CUT OFF AT ELEVATION 585.2 OR A MINIMUM OF 1'-0" BELOW THE STREAM BOTTOM OR 1'-0" BELOW GRADE. WORK IS INCLUDED IN THE BID ITEM, "CONFFERDAMS, LEFT IN PLACE.

CONCRETE SURFACE COATING IS TO BE APPLIED TO BOTH SIDES OF THE RAILING, THE HEADRAIL FACIA, THE CULVERT AND PEDESTAL WALL END FACES, THE TOP AND EXPOSED SIDE OF THE WINGWALL, RETURNWALLS AND THE RETAINING WALL. COATING SHALL EXTEND 6 INCHES MINIMUM BELOW FINISHED GRADE.

ALL EXCAVATION ON THE PROJECT SHALL BE CONSIDERED NONHAZARDOUS CONTAMINATED. STORAGE AREA FOR THE MATERIAL ON SITE MAY BE LIMITED.

WEST PARKWAY CULVERT OVER ASHCROFT - SHERWOOD DRAIN

SHEET 27 OF 39 SHEET CONTRACT

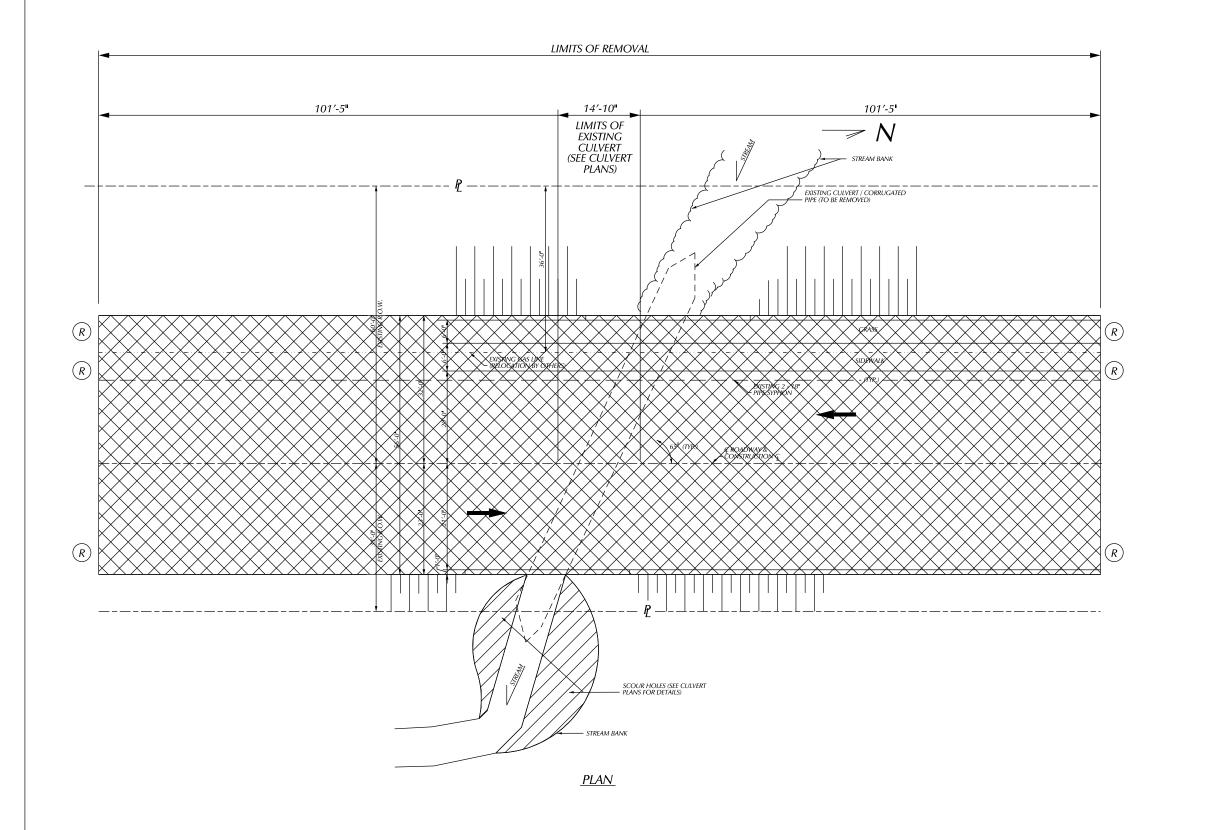
GENERAL PLAN OF STRUCTURE

ASSIGNMENT NO.

01/24/2018

SCALE HORIZONTAL **REF PT COORDINATES BENCHMARKS WITNESSES NOTES:** THE WORK COVERED BY THESE PLANS INCLUDED REMOVAL OF THE EXISTING METAL CORRUGATED STEEL CULVERT, CONSTRUCTION OF THE PROPOSED CULVERT & RETAINING WALL, PLACING RIPRAP TO THE LIMITS SHOWNS, RE-WORK APPROACHES AND MAINTAING TRAFFIC, ALL OTHER WORK NOT WITNESSES TO CP#2 EAST - W. PARKWAY, NORTH HAZELTON WATER LEVEL IS SUBJECT TO CHANGE. THE CONTRACTOR IS RESPONSIBLE FOR PLANS REFER TO THE NAVD88 DATUM. CHISEL MARK 26.4 FEET RIGHT OF STA 4+81 MAKING A DETERMINATION OF WATER LEVELS THAT MAY EXIST DURING CONSTRUCTION. 55' FRONT LIGHTPOLE NORTH THE SURVEY INFORMATION ON THIS PROJECT WAS ACQUIRED BE THE CITY OF DETROIT DEPARTMENT OF PUBLIC WORKS, CITY ENGINEER DIVISION SURVEYOR. REF PT B X=5040.57 Y = 4555.99CP#86 SW COR. W. PARKWAY & MEADOWPARK INCLUDED IN THESE PLANS THAT AREN'T PART OF THE PACKAGE. ELEV = 605.44MEASURES SHALL BE TAKEN TO PREVENT DEBRIS FROM FALLING FROM THE STRUCTURES, IF DEBRIS FALLS INTO THE THE WATERWAY, IT SHALL BE REMOVED WITHIN 24 HOURS. SINCE DISTURBANCE OF THE WATERWAY BOTTOM MAY BE AS HARNIFUL AS THE DEBRIS ITSELF, THE PREVENTIVE MEASURES MUST BE 5' N. FIRE HYDRANT 7' W. CURB LINE CHISEL MARK SW COR. W. PARKWAY & MEADOWPARK THE STATIONING SHOWN IS UNIQUE TO THIS PROJECT AND CANNOT BE RELATED TO ANY OTHER EXISTING STATIONING. 30' S. SOUTH CURB LINE OF MEADOWPARK W. PARKWAY TRAFFIC IS TO BE DETOURED OVER OTHER EXISTING ROADS. IMMEDIATELY AFTER THE CONSTRUCTION OF A CULVERT SLOPE IS COMPLETED, THE CONTRACTOR SHALL LOCATE ALL ACTIVE UNDERGROUND UTILITIES PRIOR TO STARTING WORK AND SHALL CONDUCT HIS OPERATIONS IN SUCH A MANNER AS TO ENSURE THAT THOSE UTILITIES NOT REQUIRING RELOCATION WILL NOT BE DISTURBED. SLOPE PROTECTION AND SEEDING OR SODDING SHALL BE PLACED ON THE ADJACENT EMBANKMENT SLOPES. MEADOWPARK 60 FT. WD. CHICAGO AVE. 86 FT. WD 60 FT. HAZELTON AVE. EXISTING CULVERT 14'-10"(w) x 9'-1"(d) (TO BE REMOVED) W. PARKWAY ST. 93 FT. WD. EXISTING GAS LINE (RELOCATION BY OTHERS) PROPOSED CHANNEL ≈ 120′ FROM - EX. CULVERT TO POINT A PROPOSED CULVERT SCOUR HOLE SITUATION PLAN BOTT/RIVER L. 591.67 DOWNSTREAM
- EL. 592.44 UPSTREAM 140 WATER SURFACE EL. 589.95 BOTT/FTG – EL. 585.00 100 PROPOSED PROFILE ALONG W. PARKWAY GRADE VERT. SCALE: 1"=10" HOR. SCALE: 1"=40" CHECKED BY CITY OF DETROIT SHEET 2 OF 39 SHEETS PLAN WEST PARKWAY CULVERT OVER ASHCROFT - SHERWOOD DRAIN CITY ENGINEERING DIVISION - D.P.W. contract no. *PW-6987* GRADE BUREAUS OF STREETS AND HIGHWAYS ASSIGNMENT NO. FOR GENERAL PLAN OF SITE DATE 01/24/2018

ELEV BENCH





REMOVAL QUANTITIES

TREE, REM, 6 INCH TO 18 INCH TREE, REM, 18 INCH TO 36 INCH DR STRUCTURE, REM CURB AND GUTTER, REM GUARDRAIL, REM PAVT, REM SIDEWALK, REM 6 EA 3 EA 4 EA 436 FT 436 FT 1,940 SYD 291 SYD

NOTES:

NOTE 1: SEE CULVERT PLANS FOR REMOVAL OF EX. CULVERT.

NOTE 2: EX. POWER AND LIGHT POLES ON SIDE WILL BE PERMANENTLY REMOVED FOR CONSTRUCTION OF THIS PROJECT (BY DTE)

NOTE 3: EX. WATER MAIN BECOMES LIVE AGAIN BETWEEN AND W. PARKWAY. CONTRACTOR SHALL ENSURE THAT BULKHEAD DOES NOT BLOCK OUT ANY EXISTING LIVE FEEDS.

NOTE 4:

EX. GAS WILL BE SHUTDOWN BY MICHCON (DTE) PRIOR TO CONSTRUCTION.
CONTRACTOR SHALL REMOVE THE OUT OF SERVICE SECTION DURING SIDEWALK
REMOVAL. MICHCON (DTE) MAY REPLACE ___ DURING CONSTRUCTION.

NOTE 5:
POSSIBLE WEIR REMOVAL WITHIN SEWER. REMOVED AS DIRECTED
BY THE ENCINEER. WORK SHALL BE PAID FOR AS MASONRY
CONC STRUCTURE, REM.

VERIFY REMOVAL OF EXISTING SANITARY SEWER WITH THE DWSD ENGINEER.

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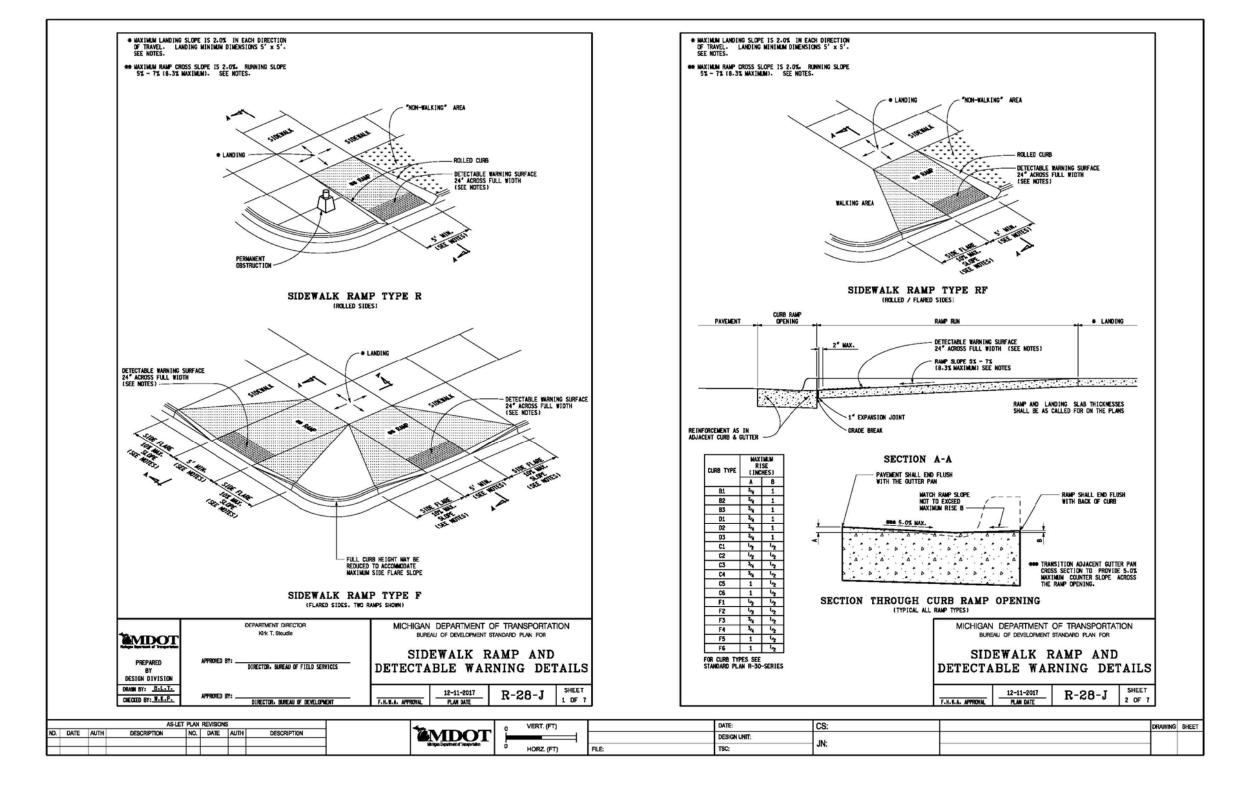
CITY OF DETROIT CITY ENGINEERING DIVISION - D.P.W. BUREAUS OF STREETS AND HIGHWAYS F O R

WEST PARKWAY CULVERT OVER ASHCROFT - SHERWOOD DRAIN

SHEET 4 OF 39 SHEETS CONTRACT NO. *PW*-6987 ASSIGNMENT NO.

REMOVAL

SCALE HORIZONTAL
VERTICAL



EXISTING

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WEST PARKWAY CULVERT OVER ASHCROFT - SHERWOOD DRAIN

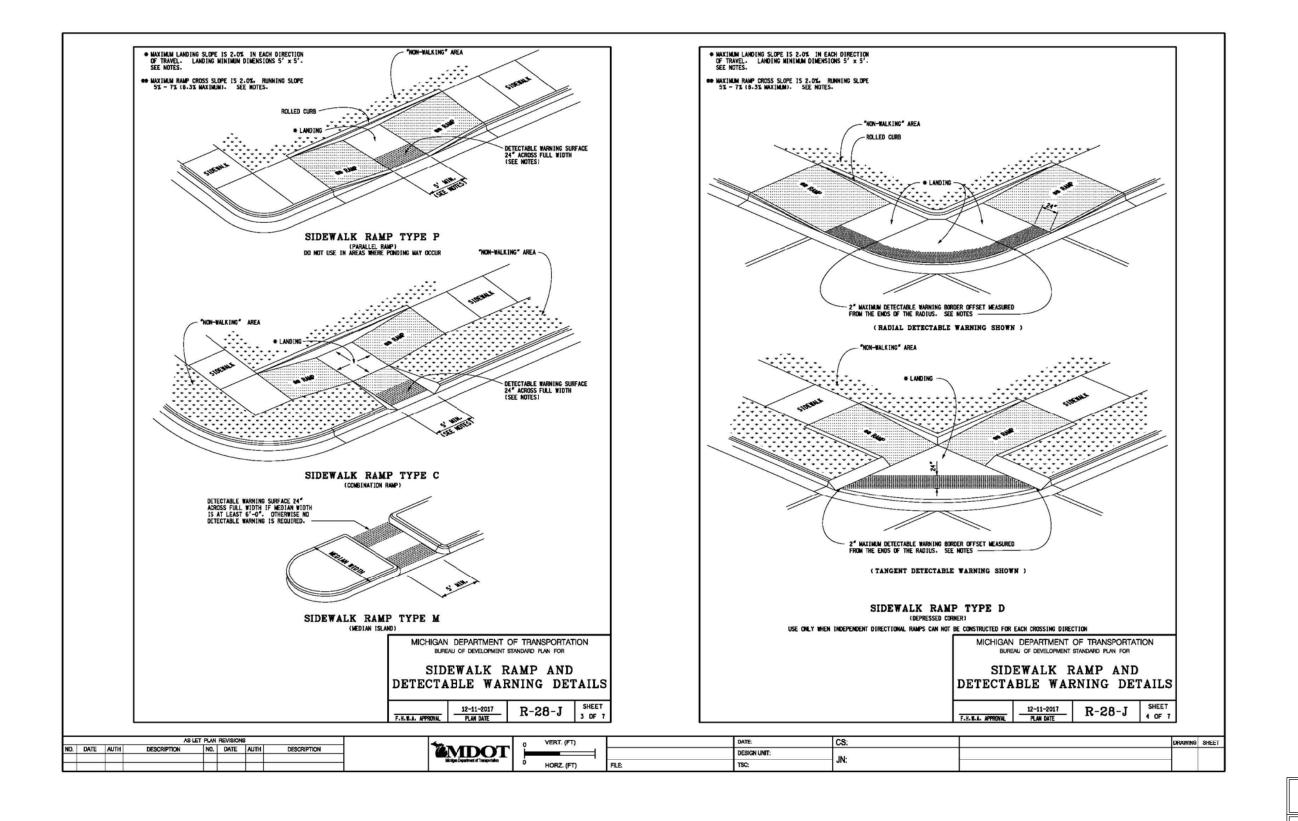
SHEET 6 OF 39 SHEETS CONTRACT NO. PI PW-6987

ROAD - DETAILS

ASSIGNMENT NO.

01/24/2018

SCALE HORIZONTAL VERTICAL



EXISTING

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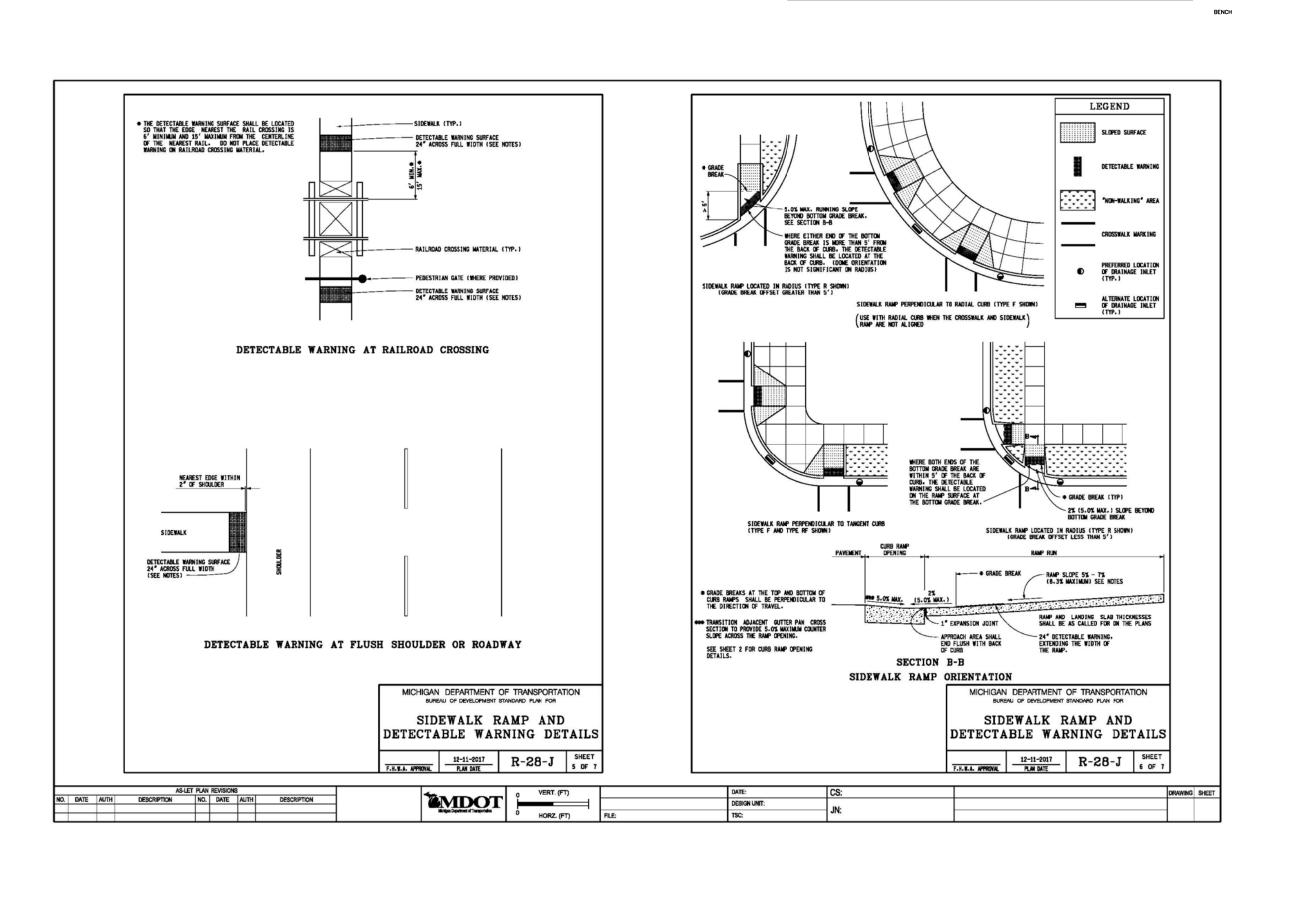
CITY OF DETROIT CITY ENGINEERING DIVISION - D.P.W. BUREAUS OF STREETS AND HIGHWAYS FOR

WEST PARKWAY CULVERT OVER ASHCROFT - SHERWOOD DRAIN

SHEET 7 OF 39 SHEETS PW-6987

ROAD - DETAILS

ASSIGNMENT NO.



SCALE HORIZONTAL
VERTICAL

EXISTING

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FOR INFORMATION ONLY

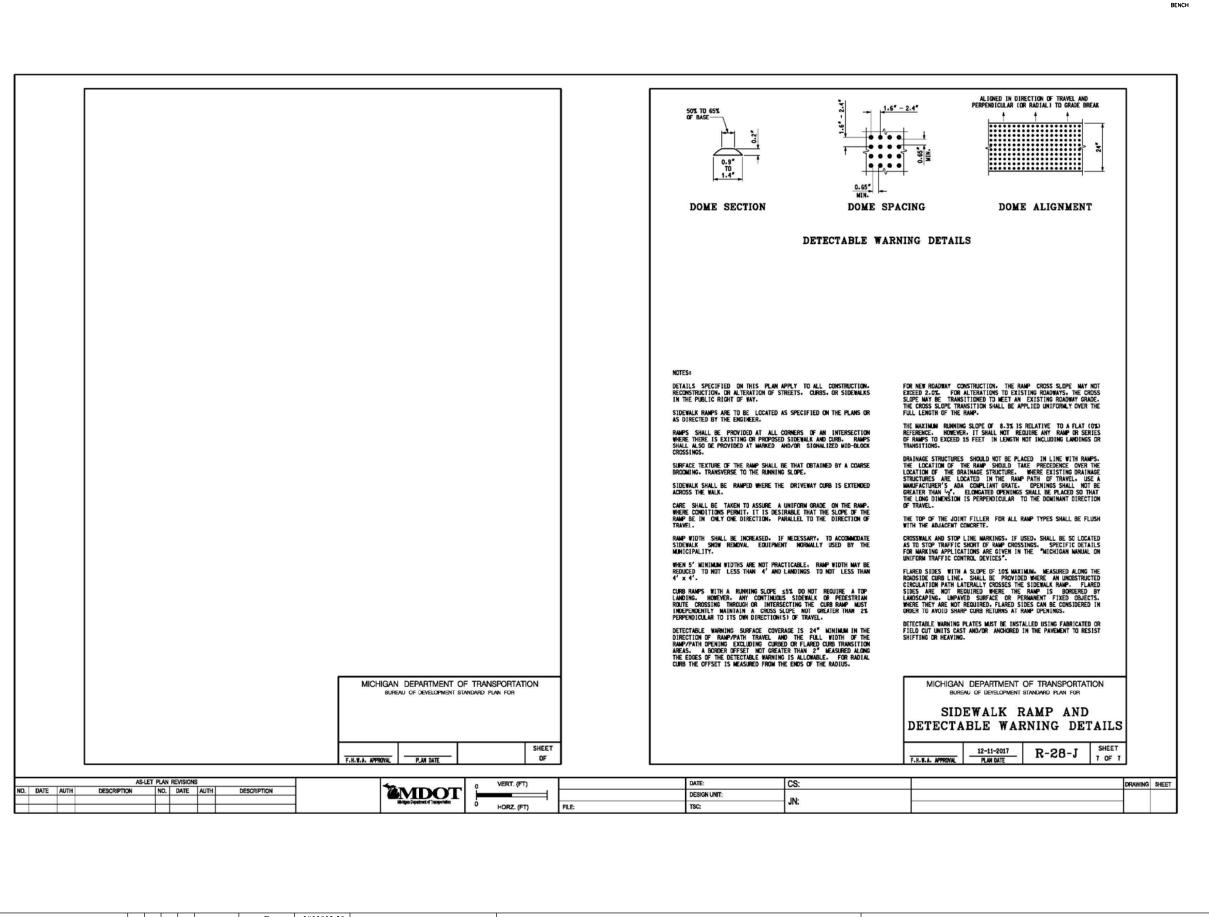
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CITY OF DETROIT
CITY ENGINEERING DIVISION - D.P.W.
BUREAUS OF STREETS AND HIGHWAYS
FOR

WEST PARKWAY CULVERT OVER ASHCROFT - SHERWOOD DRAIN

SHEET 8 OF 39 SHEETS
C O N T R A C T
N O. PW-6987
A S S IG N M E N T
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CITY OF DETROIT CITY ENGINEERING DIVISION - D.P.W. BUREAUS OF STREETS AND HIGHWAYS F O R

WEST PARKWAY CULVERT OVER ASHCROFT - SHERWOOD DRAIN

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BEFORE STARTING CONSTRUCTION CONTRACTOR
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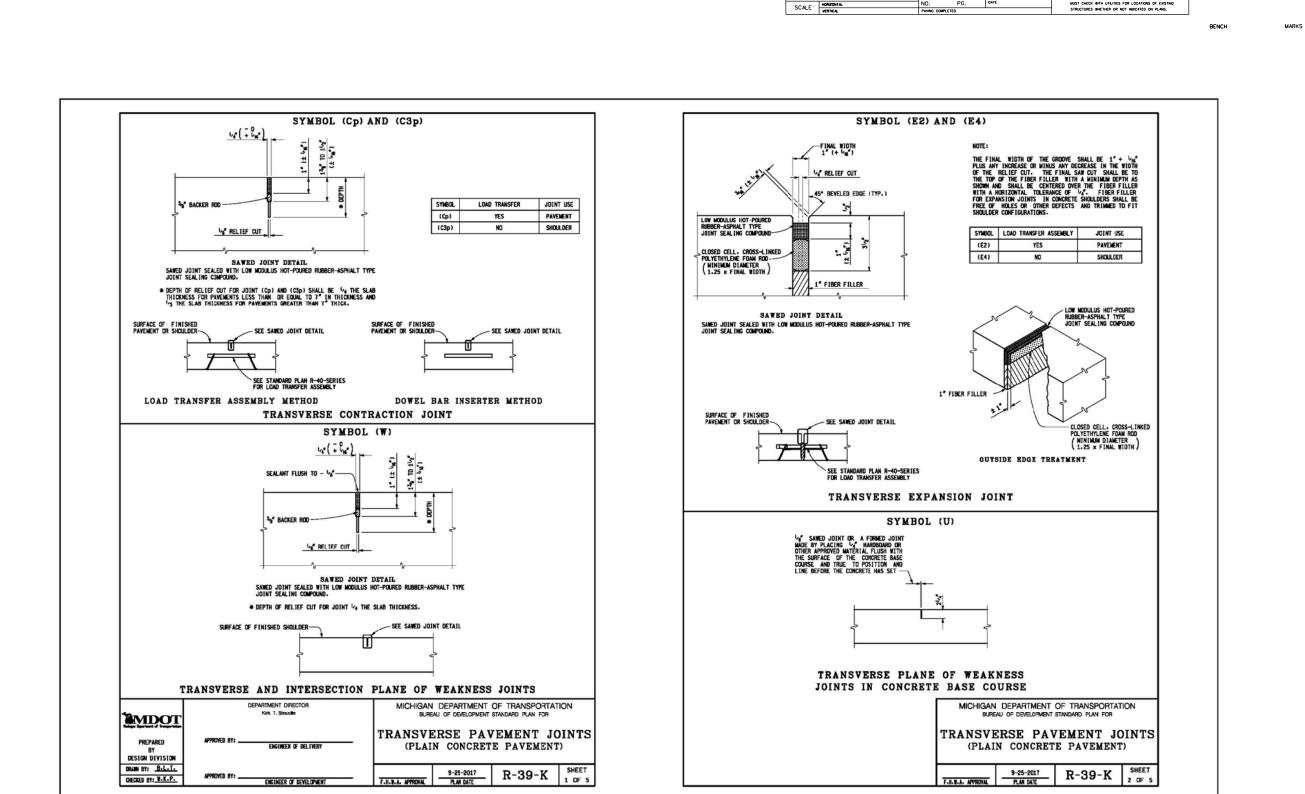
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SHEET 9 OF 39 SHEETS CONTRACT NO. PL PW-6987

ROAD - DETAILS

ASSIGNMENT



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CITY OF DETROIT

CITY ENGINEERING DIVISION - D.P.W.

BUREAUS OF STREETS AND HIGHWAYS

FOR

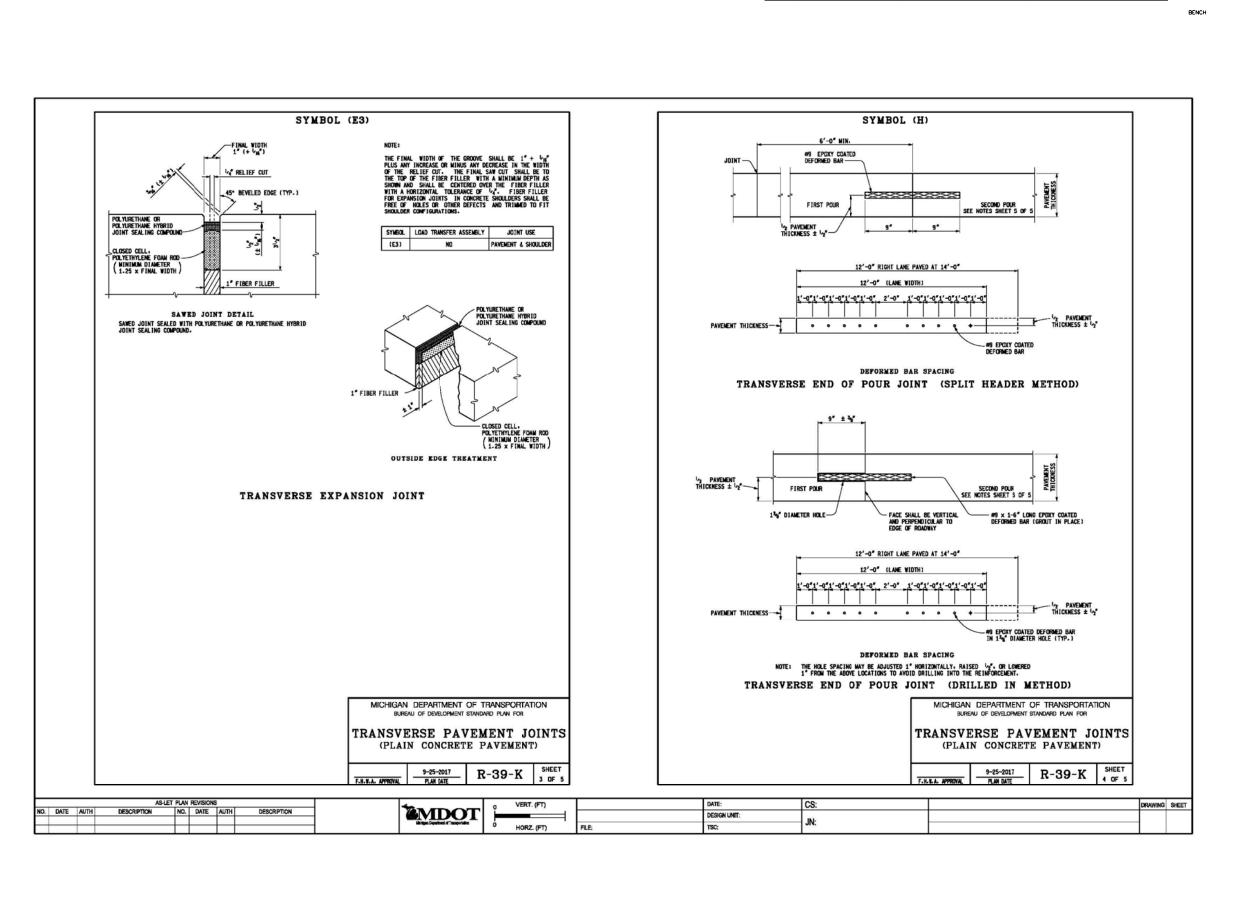
WEST PARKWAY CULVERT OVER ASHCROFT - SHERWOOD DRAIN

SHEET 10 OF 39 SHEETS
C O N T R A C T
N O. PW-6987
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ROAD - DETAILS

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D A T E 01/24/2018



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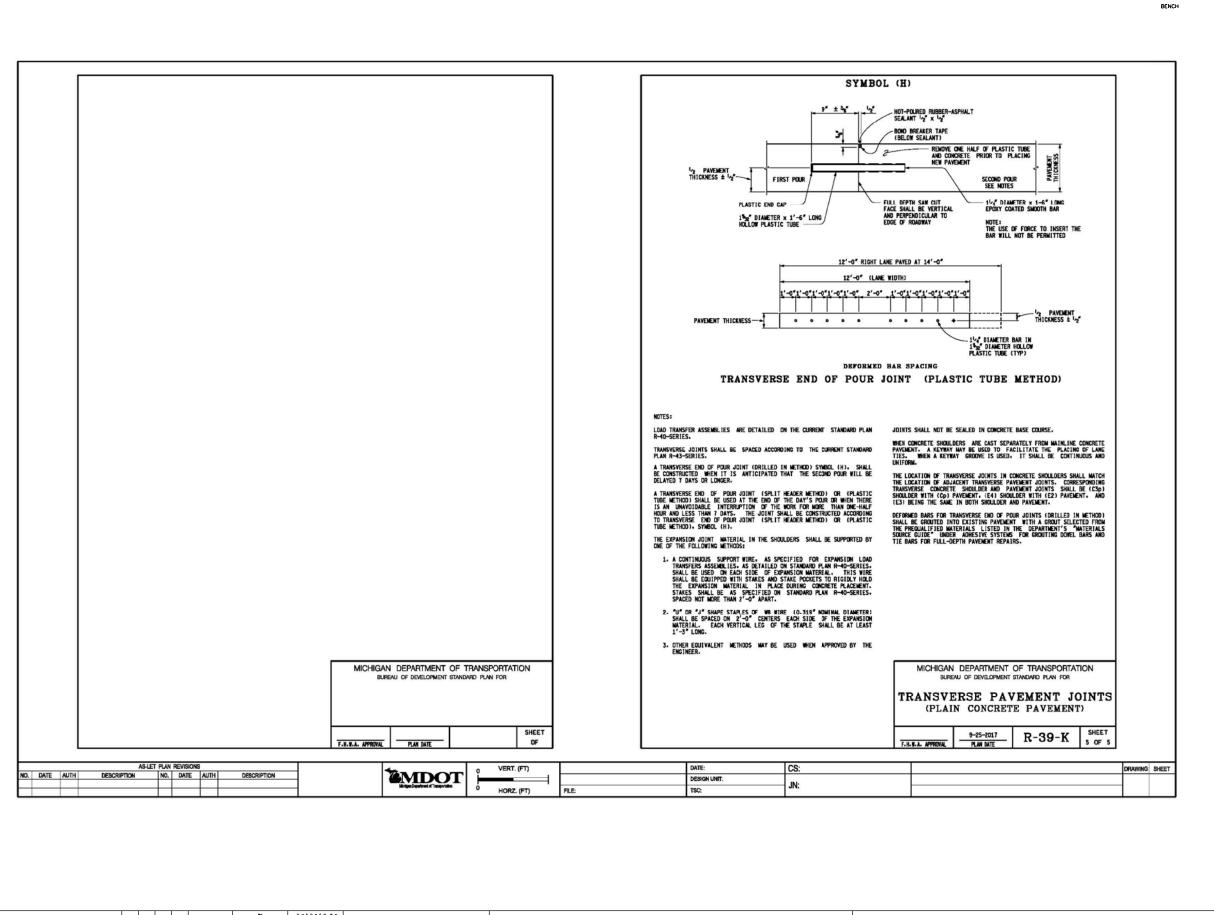
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BUREAUS OF STREETS AND HIGHWAYS
FOR

WEST PARKWAY CULVERT OVER ASHCROFT - SHERWOOD DRAIN

SHEET 11 OF 39 SHEETS
C O N T R A C T
N O. PW-6987
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CITY OF DETROIT
CITY ENGINEERING DIVISION - D.P.W.
BUREAUS DF STREETS AND HIGHWAYS
FOR

WEST PARKWAY CULVERT OVER ASHCROFT - SHERWOOD DRAIN

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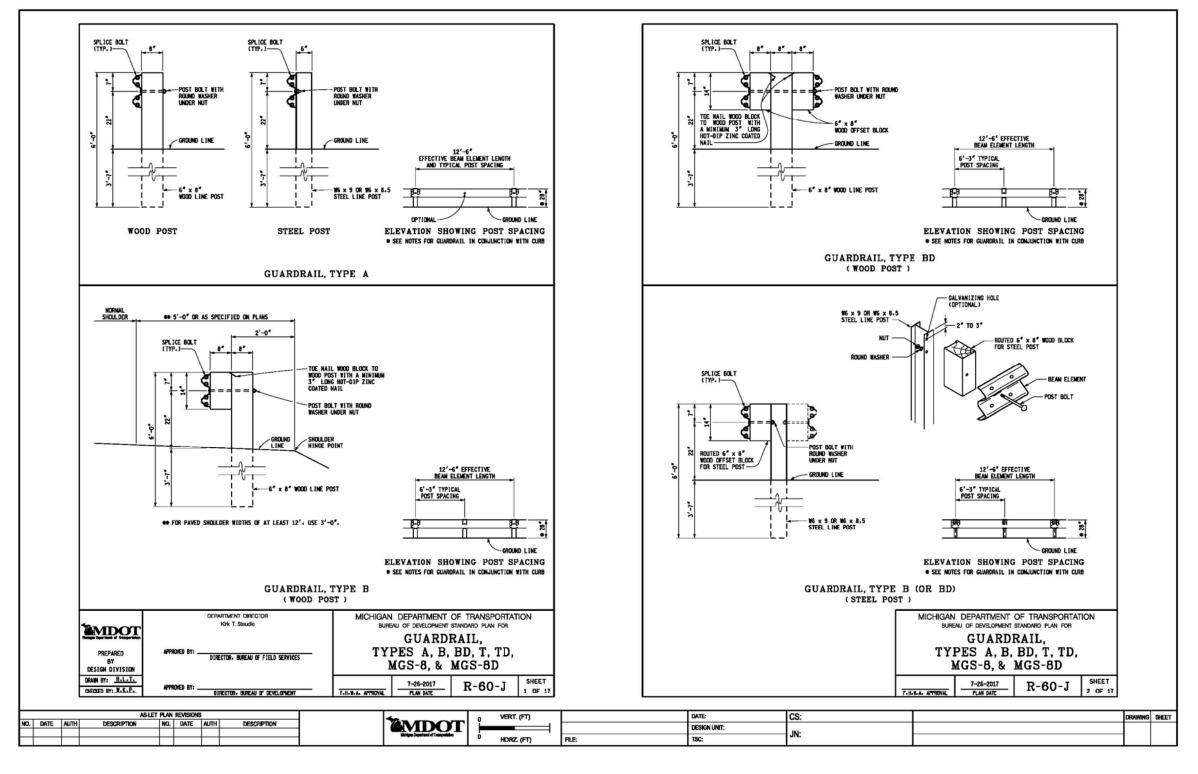
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SHEET 12 OF 39 SHEETS
C O N T R A C T
N O. PW-6987
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ROAD - DETAILS

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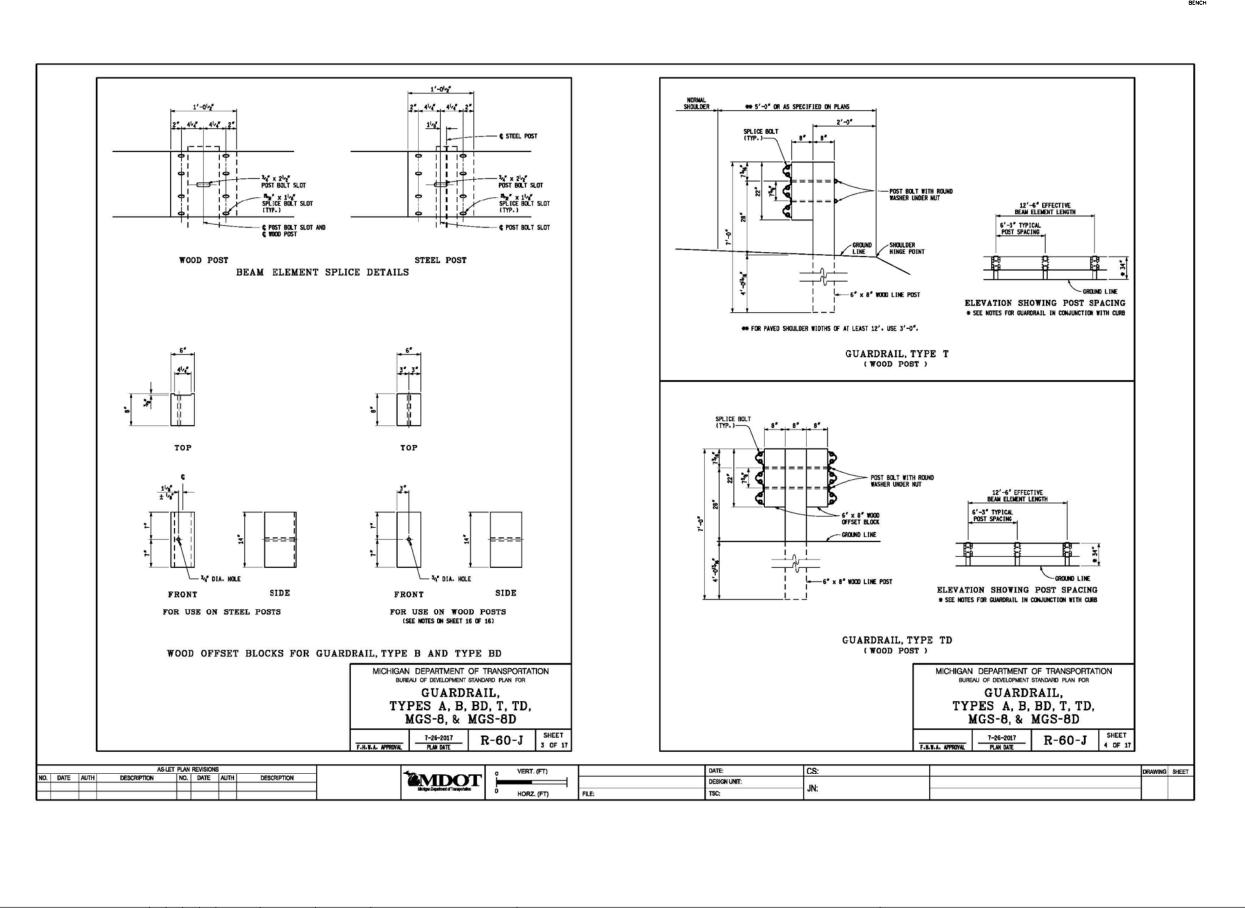
CITY OF DETROIT CITY ENGINEERING DIVISION - D.P.W. BUREAUS OF STREETS AND HIGHWAYS FOR

WEST PARKWAY CULVERT OVER ASHCROFT - SHERWOOD DRAIN

SHEET 13 OF 39 SHEET CONTRACT NO. PW-6987

ROAD - DETAILS

ASSIGNMENT NO. 01/24/2018 DATE



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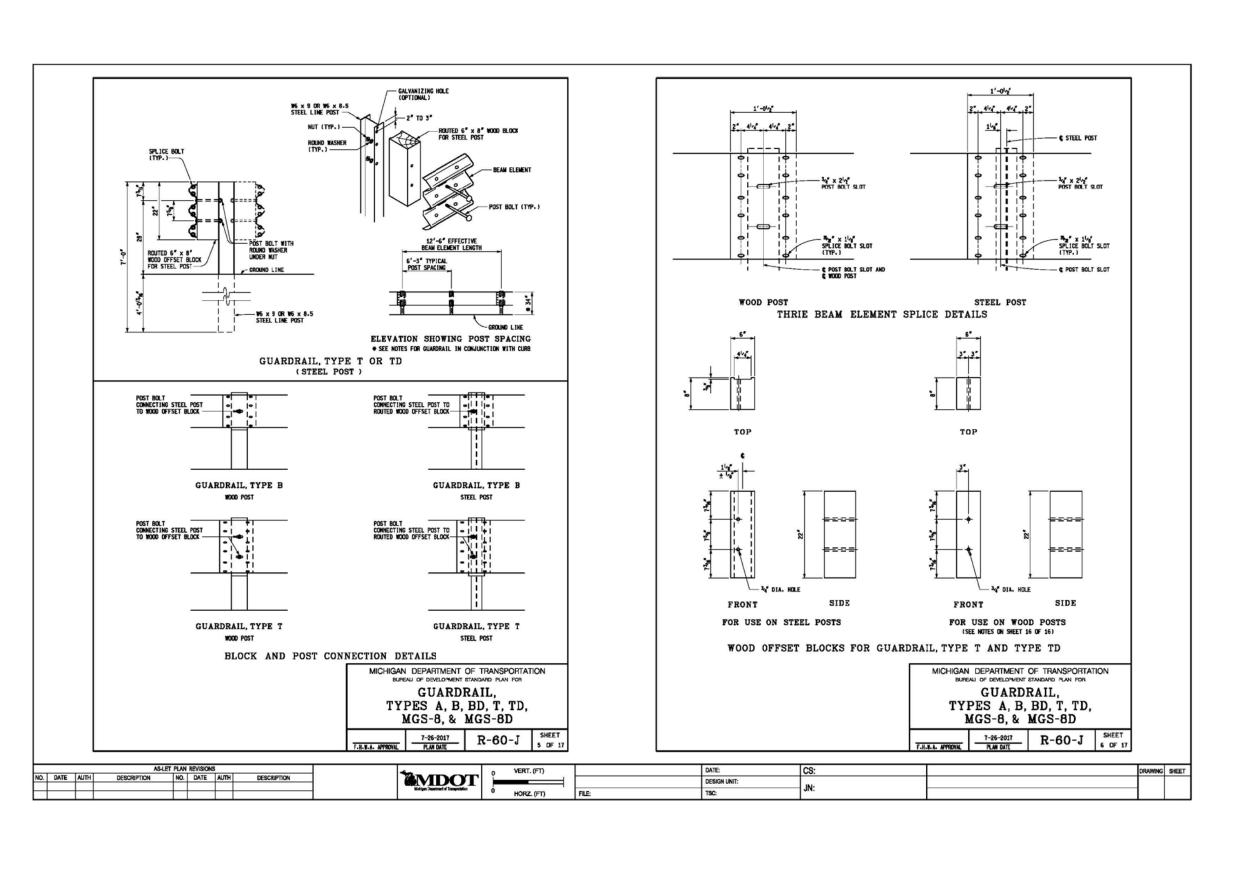
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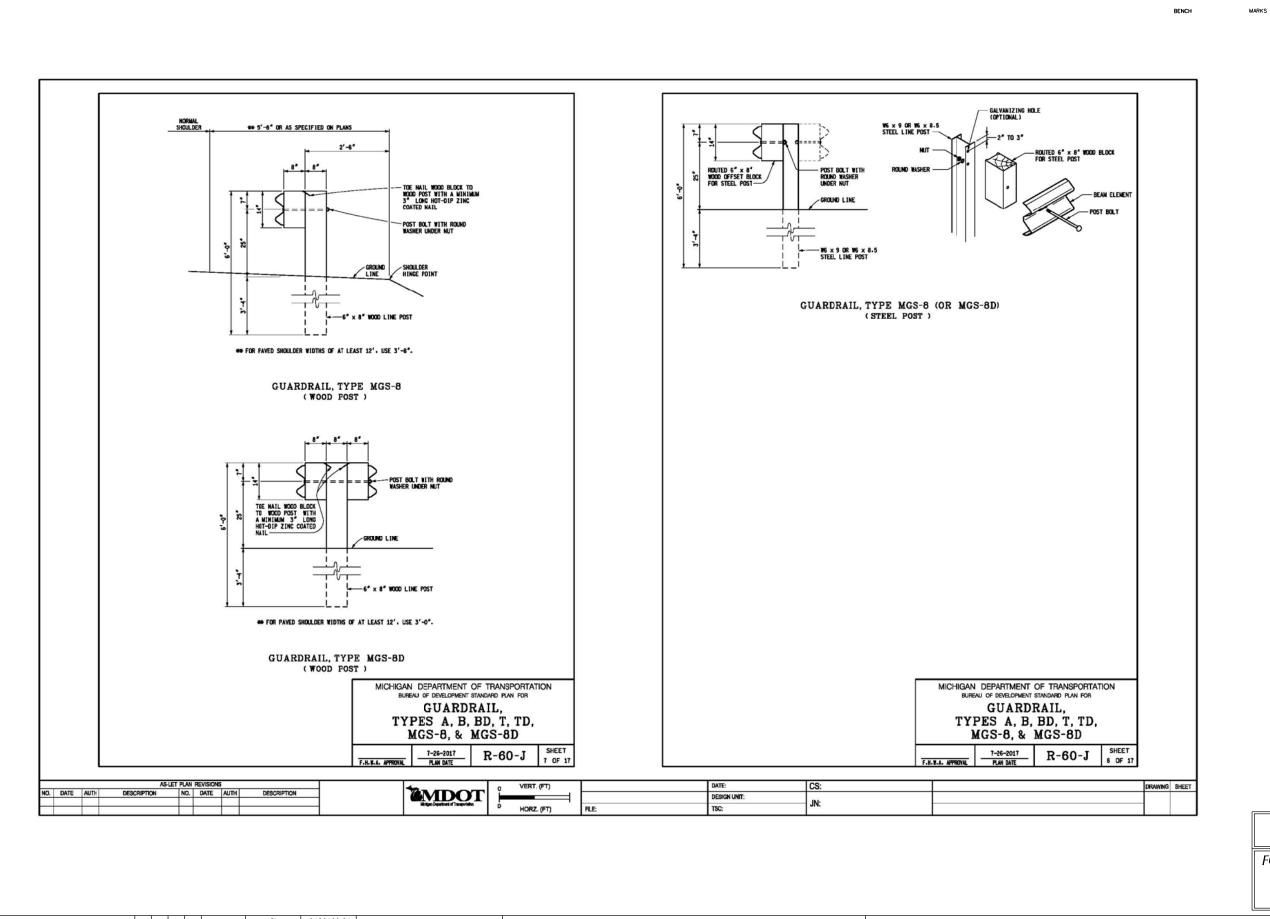
C IT Y ENGINEERING DIVISION - D.P.W.

BUREAUS OF STREETS AND HIGHWAYS

FOR

WEST PARKWAY CULVERT OVER ASHCROFT - SHERWOOD DRAIN

SHEET 15 OF 39 SHEETS
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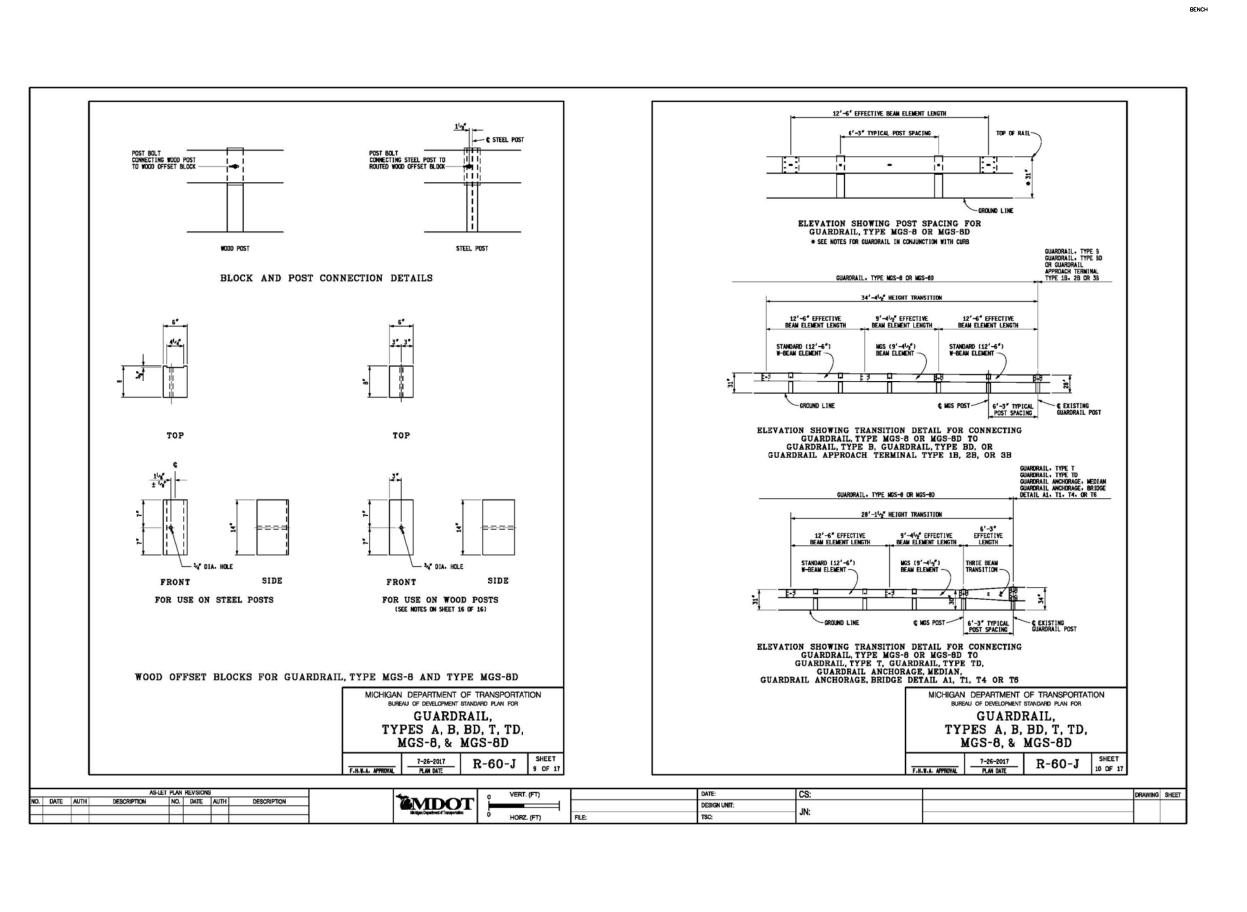
WEST PARKWAY CULVERT OVER ASHCROFT - SHERWOOD DRAIN

SHEET 16 OF 39 SHEETS
CONTRACT
NO. PW-6987
ASSIGNMENT
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ROAD - DETAILS

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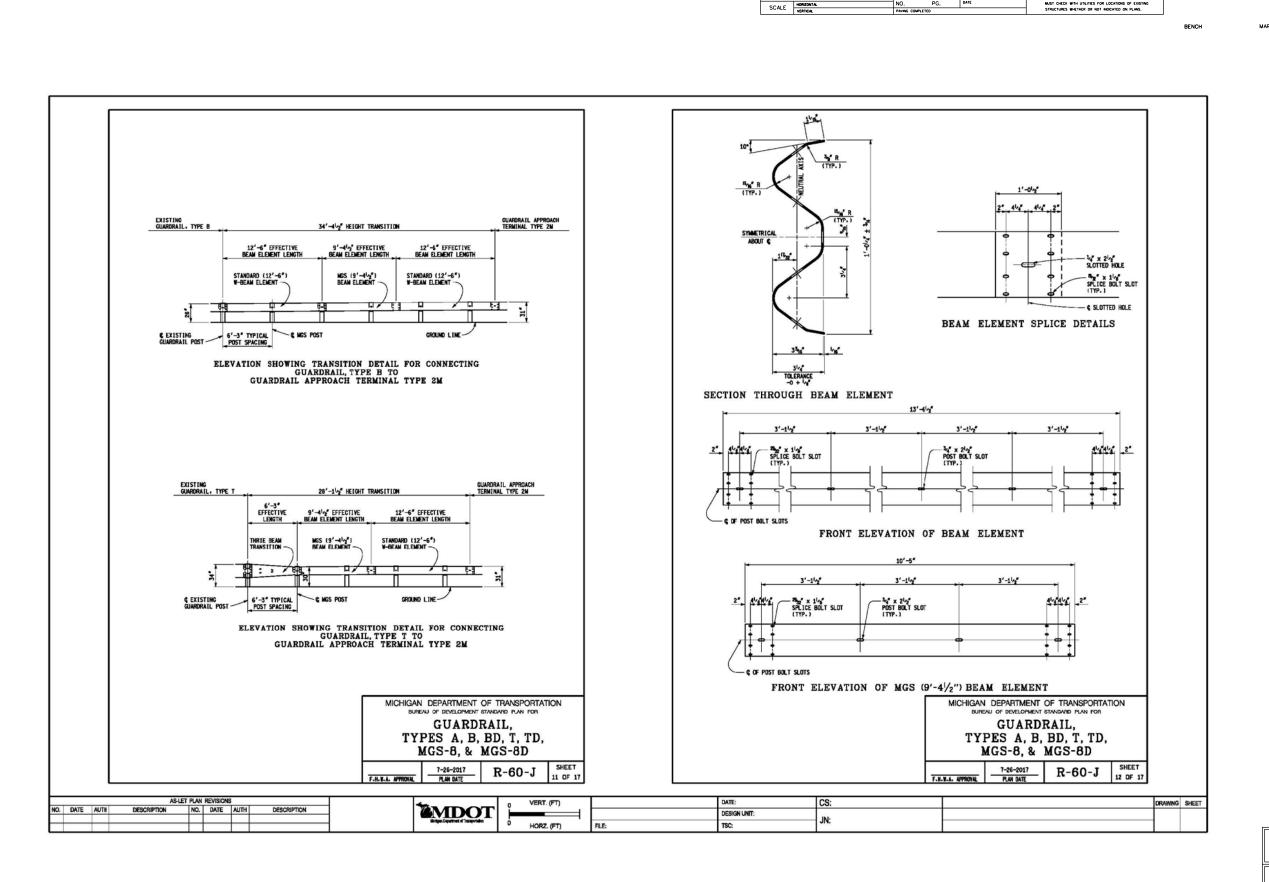
WEST PARKWAY CULVERT OVER ASHCROFT - SHERWOOD DRAIN

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SHEET 17 OF 39 SHEETS
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CITY OF DETROIT

CITY ENGINEERING DIVISION - D.P.W.

BUREAUS OF STREETS AND HIGHWAYS

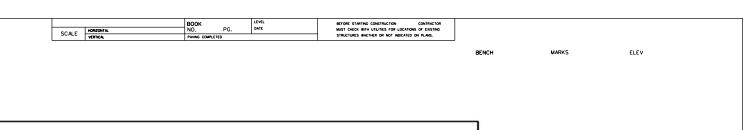
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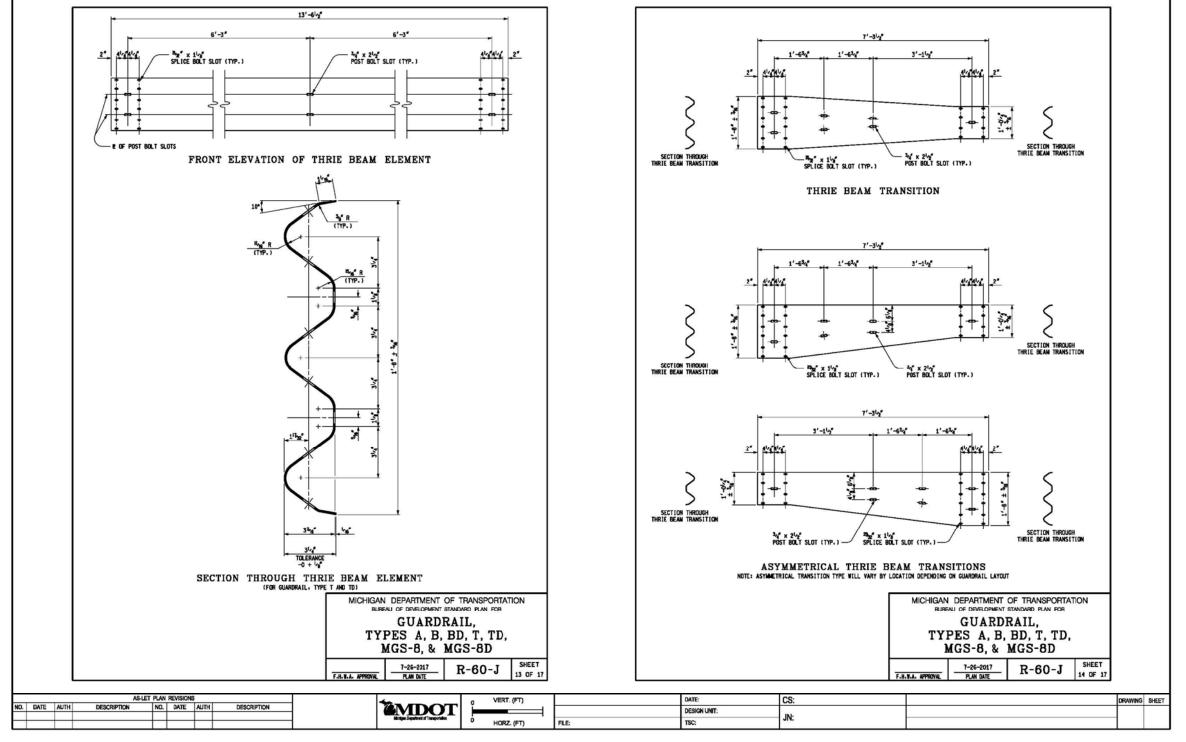
WEST PARKWAY CULVERT OVER ASHCROFT - SHERWOOD DRAIN

SHEET 18 OF 39 SHEETS
C O N T R A C T
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ROAD - DETAILS

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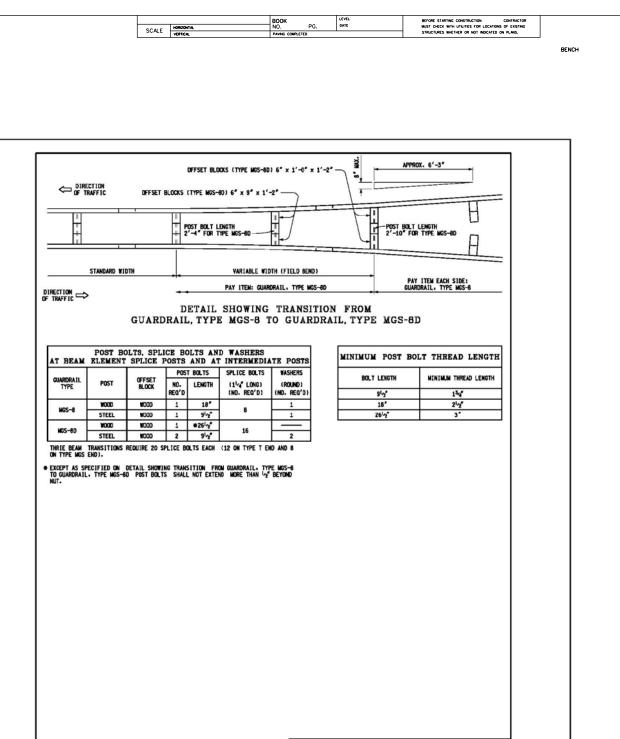
WEST PARKWAY CULVERT OVER ASHCROFT - SHERWOOD DRAIN

SHEET 19 OF 39 SHEETS
CONTRACT
NO. PW-6987
ASSIGNMENT
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ROAD - DETAILS

NO.

DATE 01/24/2018



MICHIGAN DEPARTMENT OF TRANSPORTATION BUREAU OF DEVELOPMENT STANDARD PLAN FOR MICHIGAN DEPARTMENT OF TRANSPORTATION BUREAU OF DEVELOPMENT STANDARD PLAN FOR GUARDRAIL, TYPES A, B, BD, T, TD, TYPES A, B, BD, T, TD, MGS-8, & MGS-8D MGS-8, & MGS-8D SHEET 15 OF 17 SHEET 16 OF 17 7-26-2017 PLAN DATE R-60-J R-60-J

CF TRAFFIC

DIRECTION ->

STANDARD WIDTH

WOOD

STEEL

MDOT

7-26-2017

OFFSET BLOCKS (TYPE BD) 6" x 1'-0" x 1'-3" OFFSET BLOCKS (TYPE TD) 6" x 1'-0" x 1'-10"-

VARIABLE WIDTH (FIELD BEND)

PAY ITEM: GUARDRAIL. TYPE BD (OR TD)

DETAIL SHOWING TRANSITION FROM GUARDRAIL, TYPE B (OR TYPE T)

TO GUARDRAIL, TYPE BD (OR TYPE TD)

(NO. REQ'D)

1

2

2

2

34 32°

POST BOLTS SPLICE BOLTS WASHERS

(114" LONG) (NO. REQ'D)

POST BOLTS, SPLICE BOLTS AND WASHERS
AT BEAM ELEMENT SPLICE POSTS AND AT INTERMEDIATE POSTS

1 91/2"

THRIE BEAN TRANSITIONS REQUIRE 20 SPLICE BOLTS EACH (12 ON TYPE T END AND 8 ON TYPE B END). ◆ EXCEPT AS SPECIFIED ON DETAIL SHOWING TRANSITION FROM GUARDRAIL. TYPE BUT OR TYPE TO. POST BOLTS SHALL NOT EXTEND MORE THAN '√' BEYOND MUT.

N/A 1 2°

N/A

WOOD WOOD 1 18"

STEEL WOOD 1 91/2"

W000 W000 1 *261/2* STEEL WOOD 2 91/2" WOOD WOOD 2 18"

STEEL 1000 2 91/2*

W000 W000 2 +261/2* STEEL WOOD 4 91/2"

ROUND WASHER

₩150

METAL TAG

FOR CURVED GUARDRAIL WITH RADIUS OF 150' OR LESS

NO. LENGTH REQ'D

APPROX. 6'-3"

PAY ITEM EACH SIDE: GUARDRAIL, TYPE 8 (OR T)

MINIMUM THREAD LENGTH

MINIMUM POST BOLT THREAD LENGTH

114" (SPLICE BOLT)

SEE CHART (POST BOLT)

SPLICE BOLT AND POST BOLT

11/16"

NUT

GUARDRAIL,

BOLT LENGTH

VERT. (FT)	Ī
_	l
HORZ. (FT)	

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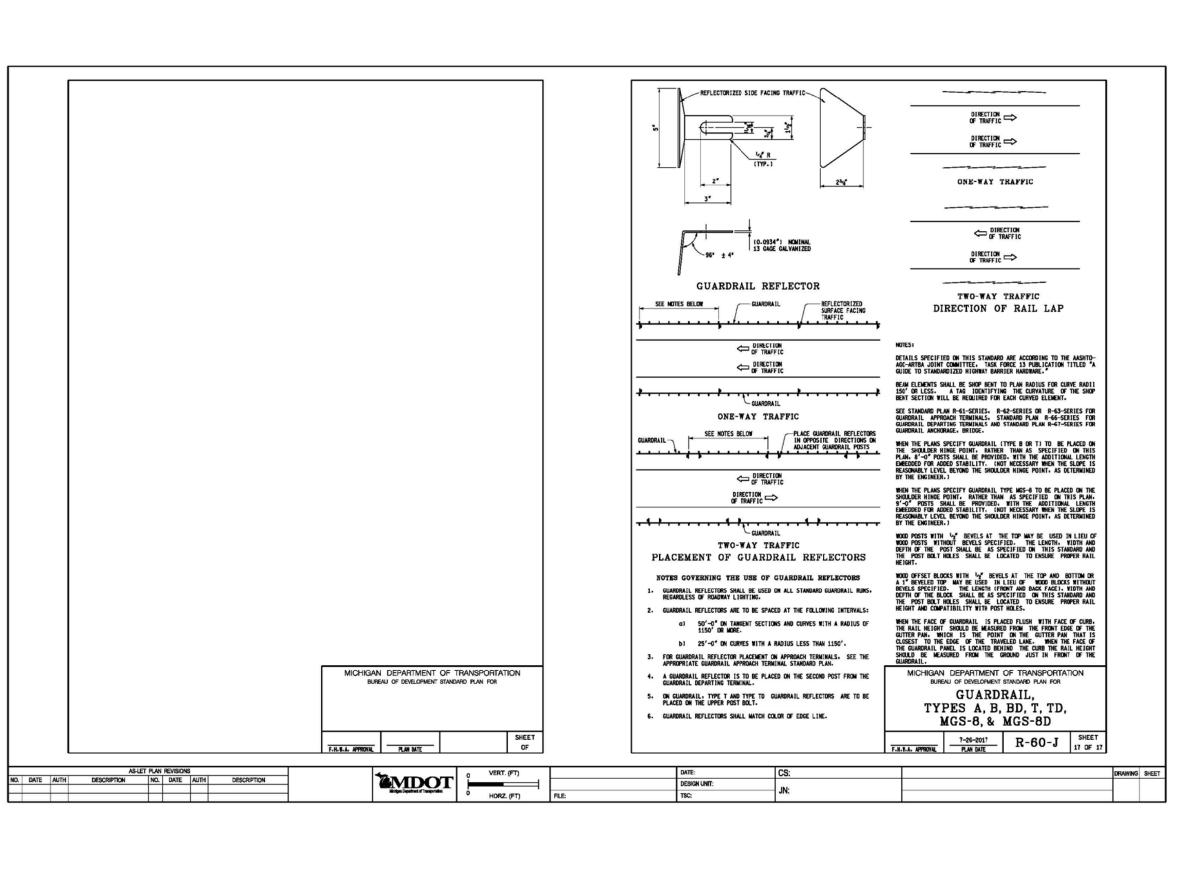
CITY OF DETROIT CITY ENGINEERING DIVISION - D.P.W. BUREAUS OF STREETS AND HIGHWAYS FOR

WEST PARKWAY CULVERT OVER ASHCROFT - SHERWOOD DRAIN

SHEET 20 OF 39 SHEETS CONTRACT NO. P PW-6987 ASSIGNMENT

ROAD - DETAILS

01/24/2018



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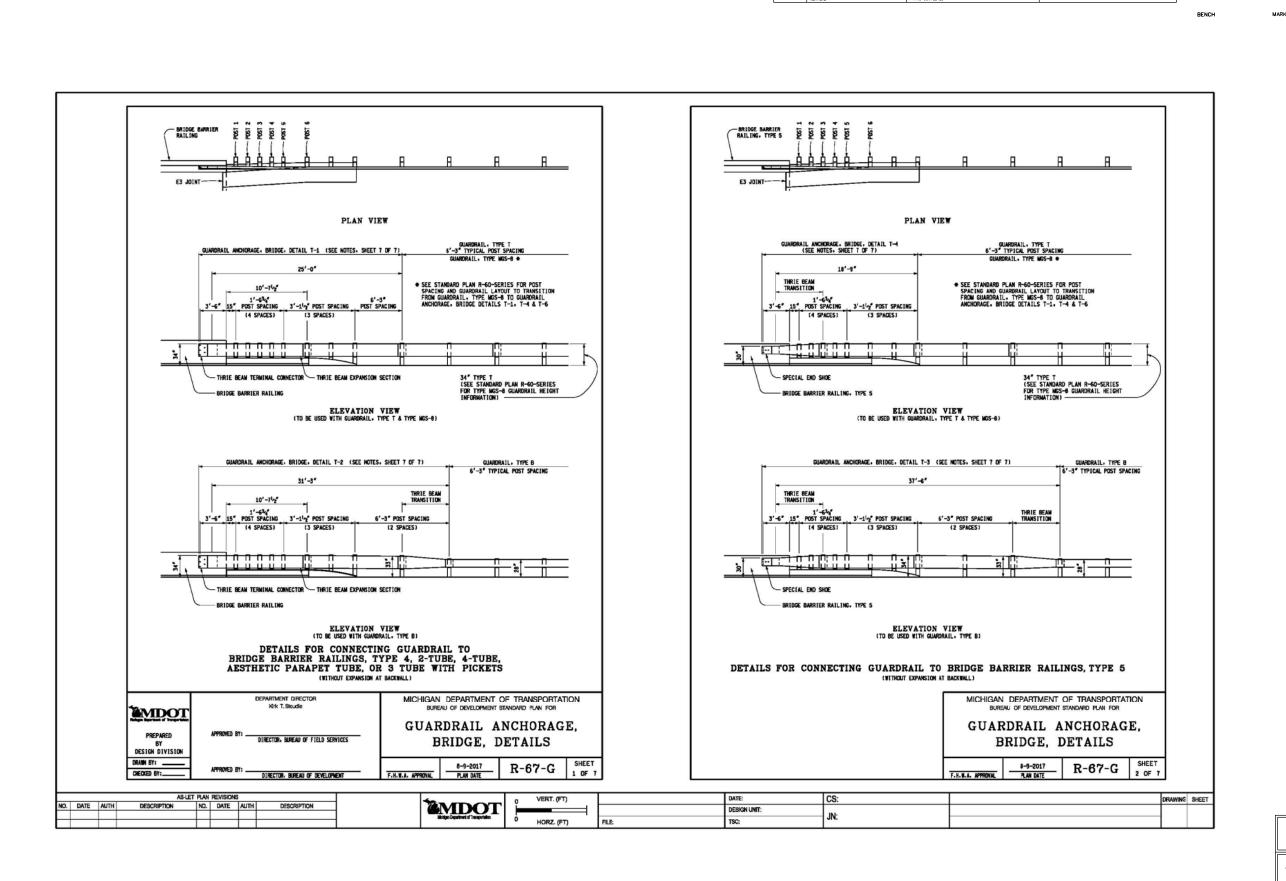
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CITY OF DETROIT
CITY ENGINEERING DIVISION - D.P.W.
BUREAUS OF STREETS AND HIGHWAYS
FOR

WEST PARKWAY CULVERT OVER ASHCROFT - SHERWOOD DRAIN

DATE

SHEET 21 OF 39 SHEETS
C O N T R A C T
N O. PW-6987
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CITY OF DETROIT
CITY ENGINEERING DIVISION - D.P.W.
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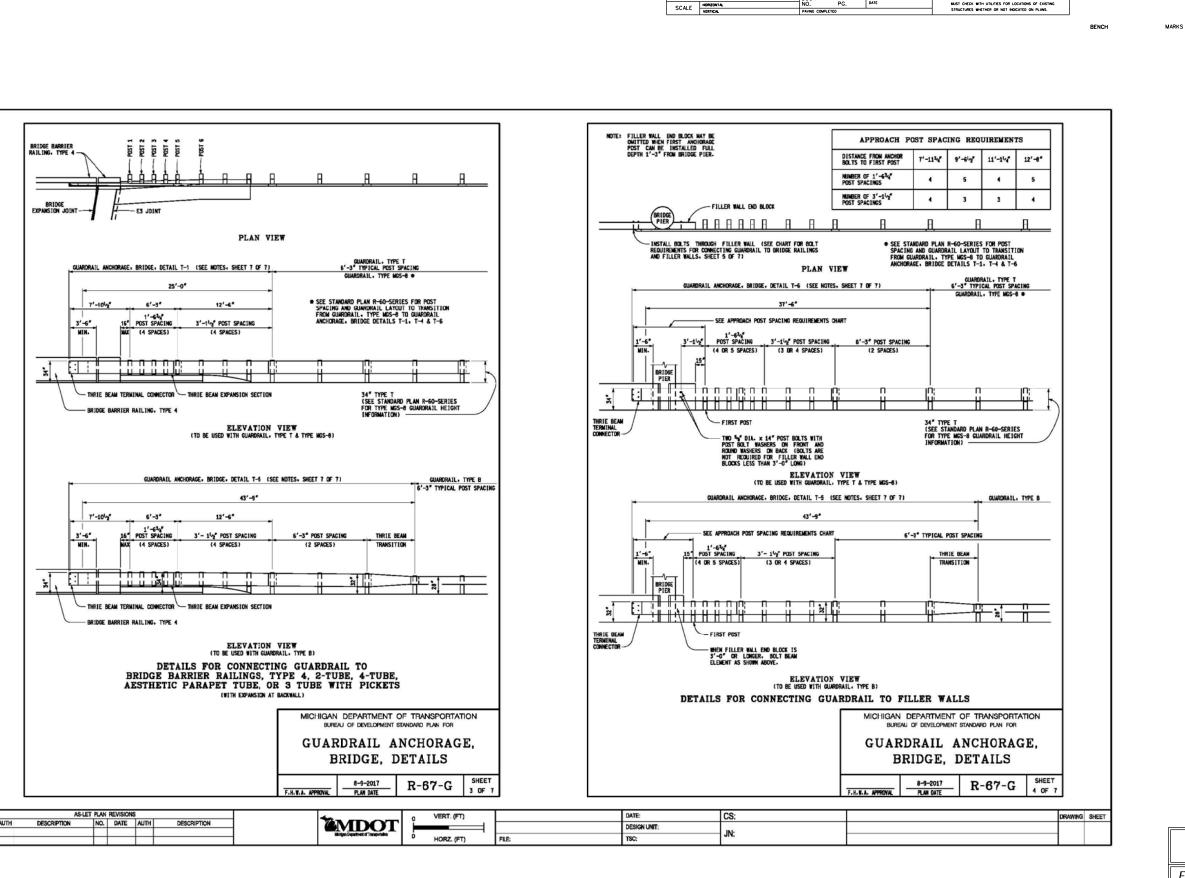
WEST PARKWAY CULVERT OVER ASHCROFT - SHERWOOD DRAIN

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SHEET 22 OF 39 SHEETS
C O N T R A C T
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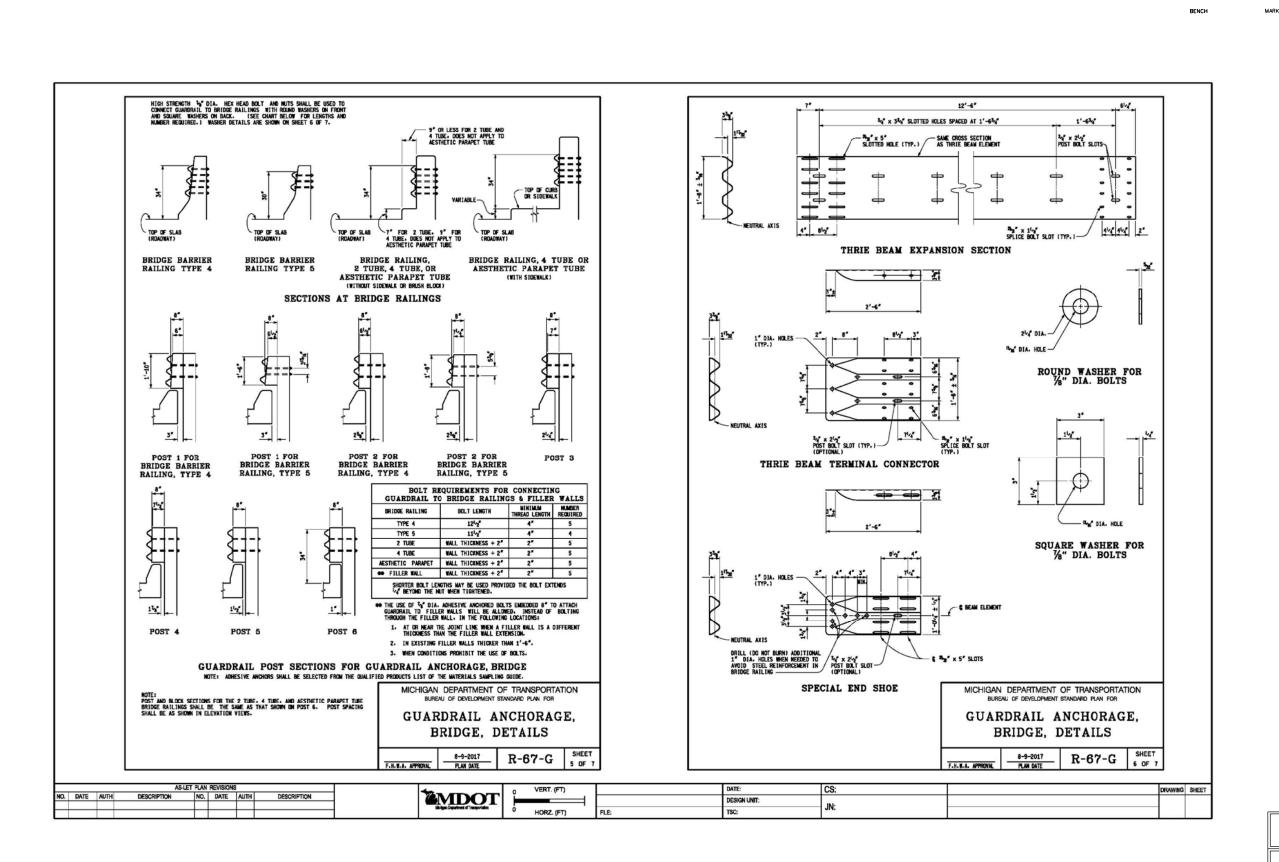
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WEST PARKWAY CULVERT OVER ASHCROFT - SHERWOOD DRAIN

SHEET 23 OF 39 SHEETS
C O N T R A C T
N O. PW-6987

ROAD - DETAILS

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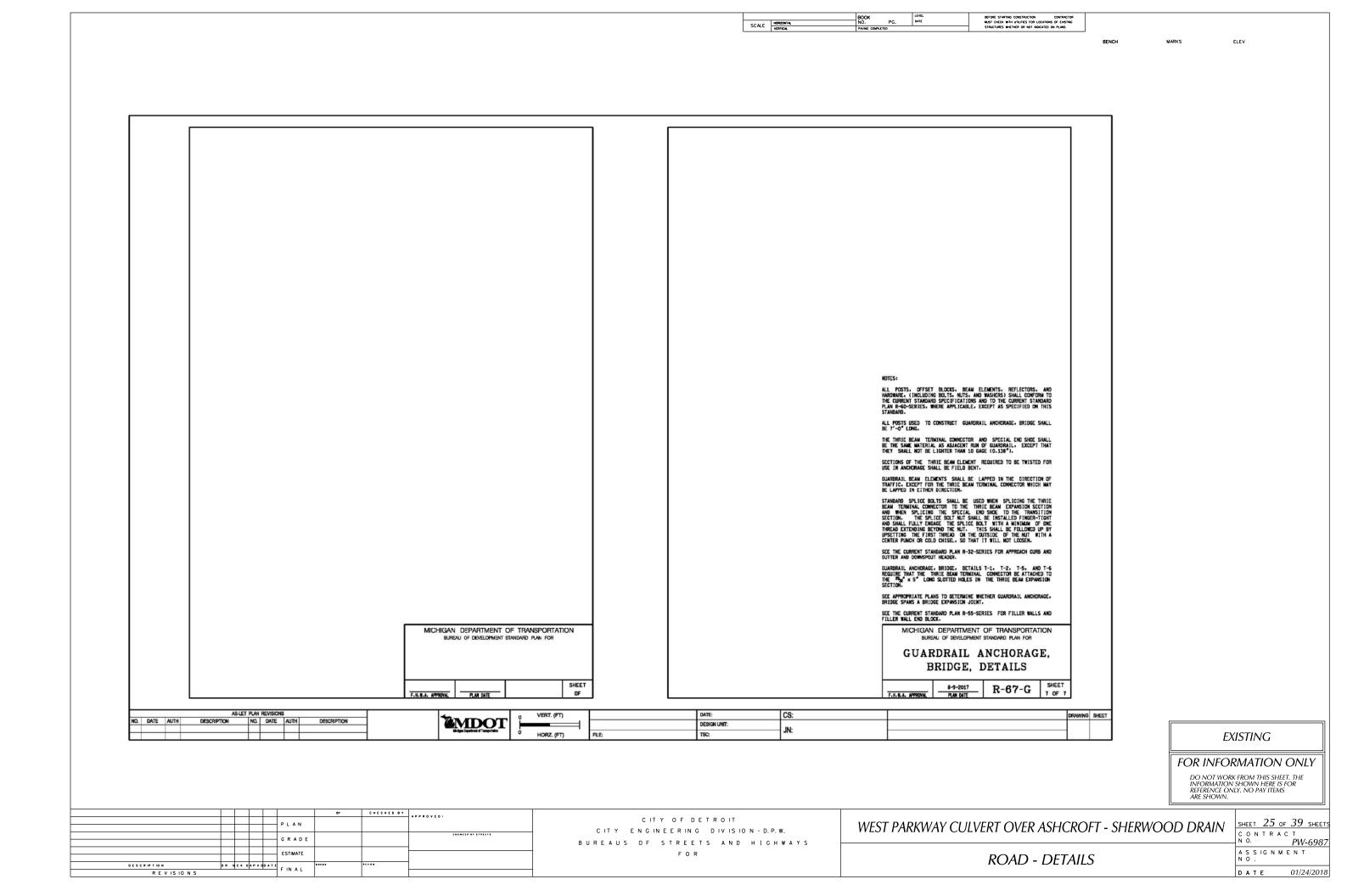
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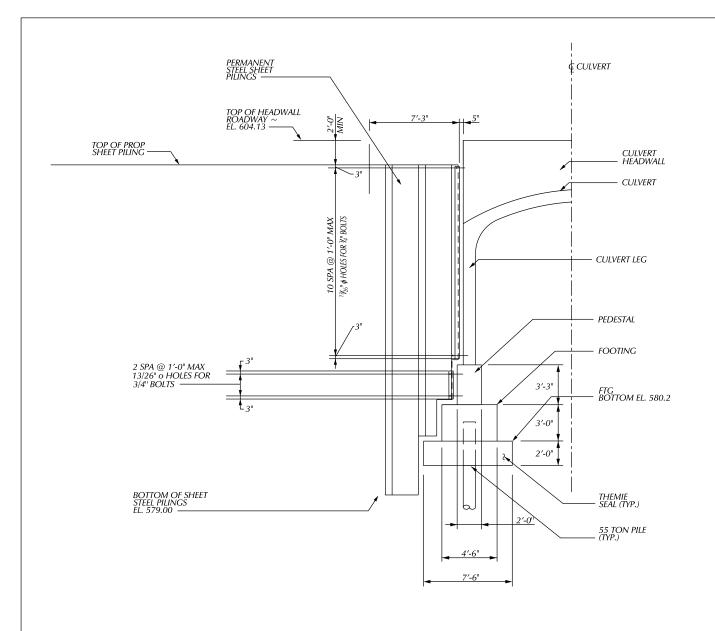
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WEST PARKWAY CULVERT OVER ASHCROFT - SHERWOOD DRAIN

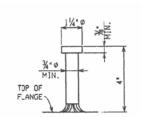
SHEET 24 OF 39 SHEETS
C O N T R A C T
N O. PW-6987
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<u>SECTION THRU PERMANENT SHEETING ANCHORAGE</u> (TYP. ALL QUADRANTS)

EDO4 OR CONC EDOS BAR (TYP)

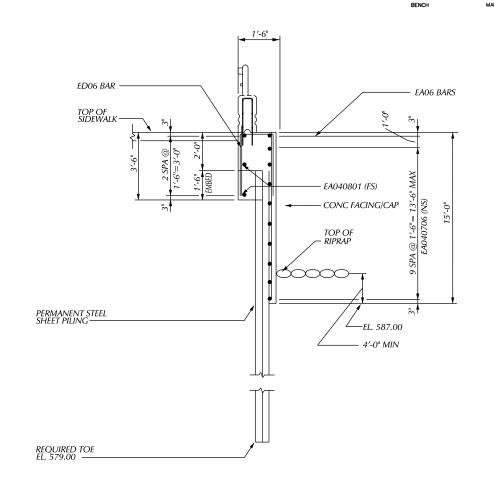


TYPICAL SECTION THRU CONC. CAP

(THE MIN. REQ'D PLACEMENT OF STUDS PER ROW IS AS SHOWN) (SPACE ROWS @ 1'-6" MAX)

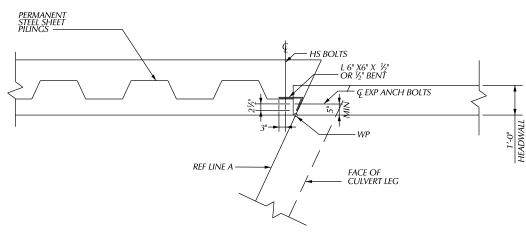
STUD DETAILS





SECTION THRU RETAINING WALL

(SOUTHEAST RETURN WALL SHOWN, OTHER RETURN WALLS ARE SIMILAR)



<u>RETAINING WALL ANCHORAGE DETAIL</u>

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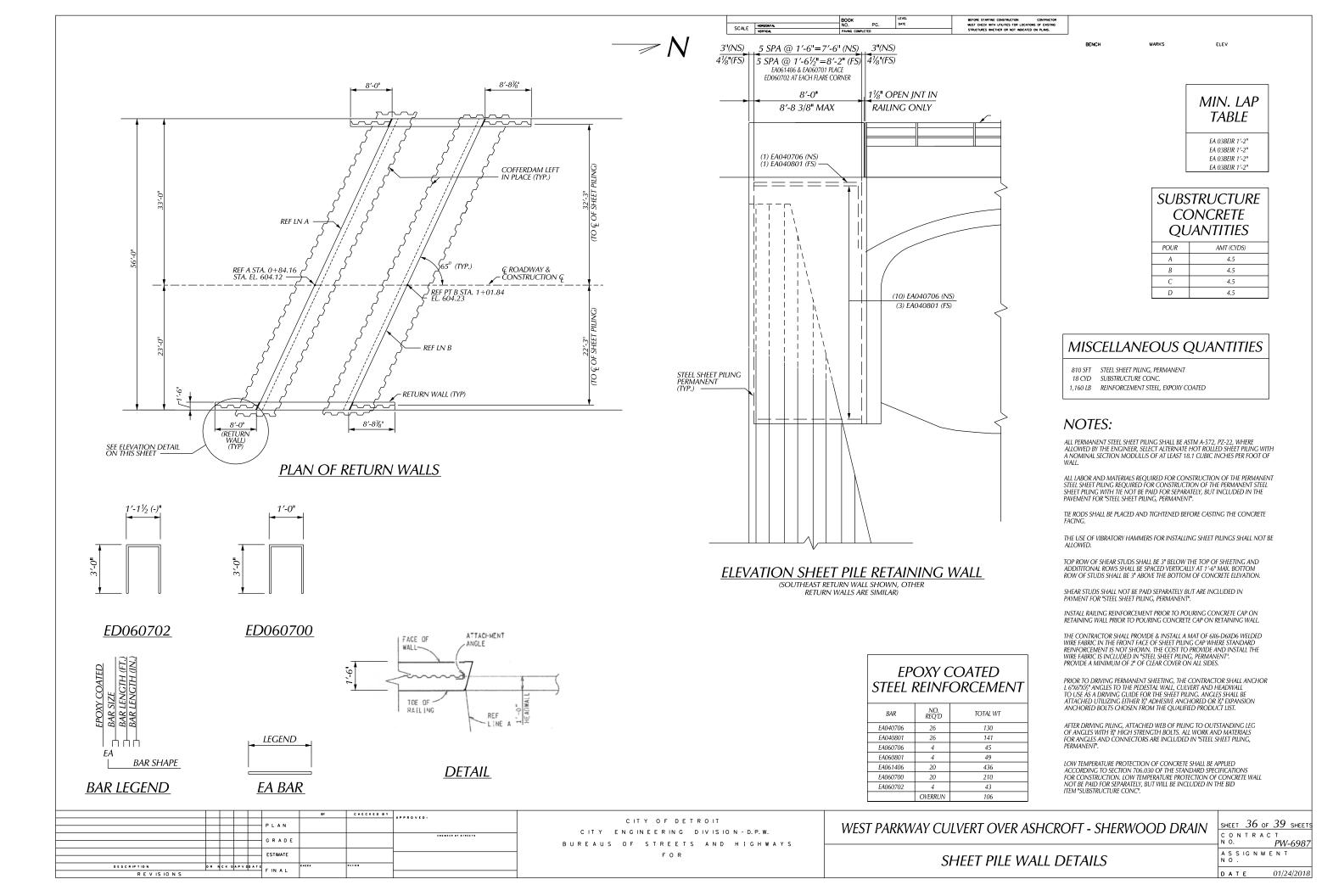
C IT Y OF DETROIT
C IT Y ENGINEERING DIVISION-D.P.W.
BUREAUS OF STREETS AND HIGHWAYS
FOR

WEST PARKWAY CULVERT OVER ASHCROFT - SHERWOOD DRAIN
SHEET PILE WALL DETAILS

SHEET 37 OF 39 SHEETS
C O N T R A C T
N O. PW-6987
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N O .

01/24/2018

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INDEX OF SHEETS SHEET NO. DESCRIPTION # OF SHEET TITLE SHEET GENERAL PLAN OF SITE MAINTAINING TRAFFIC ROAD - REMOVAL **ROAD - CONSTRUCTION** ROAD - DETAILS 6 - 25 SOIL BORINGS 27 - 29 GENERAL PLAN OF STRUCTURES 30 - 31 EXISTING PLAN CULVERT H-PILE LAYOUT 32 33 - 34 CULVERT SUBSTRUCTURE DETAILS CONCRETE ARCH DETAILS 35 36 - 37 SHEET PILE WALLS DETAILS CULVERT & RETAINING WALL RAILING DETAILS 38 - 39

STANDARD PLANS

WHERE THE FOLLOWING ITEMS ARE CALLED FOR ON THE PLANS THEY ARE TO BE CONSTRUCTED ACCORDING TO THE STANDARDS PLAN GIVEN BELOW OPPOSITE EACH ITEM UNLESS OTHERWISE INDICATED

ROAD

BRIDGE

1) BRIDGE RAILING, AESTHTIC PARAPET TUBE

2) MOLDING, BEVEL, LIGHT STANDARD ANCHOR BOLT ASSEMBLY AND NAME PLATE DETAILS

3) SEE ROAD PLANS FOR ADDITIONAL STANDARD PLANS & SPECIAL DETAILS.

DEPARTMENT OF P CONTROL SECTION PROJECT JOB NO. XXX XXXXX PW-6987

CULVERT REPLACEMENT PROJECT REPLACEMENT OF THE W. PARKWAY CULVERT OVER ASHCROFT - SHERWOOD DRAIN



PUBLIC UTILTIES

dsingleton@awsa.org EMERGENCY 24 HOUR SERVICE

TELEPHONE CITY OF DETROIT METRO EAST DETROIT FIRE DEPARTMENT FIRE MARSHAL'S DIVISION 1301 THIRD STREET DETROIT, MI 48226 100 S MAIN ST. SUITE 314 MT CLEMENS, MI 487043-2374 JOE SIKOKI (586) 466-6310 PHONE CHIEF OTIS B. HOLT RIGHT OF WAY- METRO WEST 17651 MICHIGAN AVE., RM 301 DEARBORN, MI 48126 CITY OF DETROIT, DETROIT POLICE DEPARTMENT DETROIT PUBLICS SAFETY HEADQUARTERS (313) 240-5482 KEVIN LOGAN (734) 223-5645 (313) 982-1029 MARK BRANAM Mark.branam@att.com BRADLEY HALL Bradley.x.hall@att.com (313) 240-5390 DETROIT, MI 48226 CITY OF DETROIT TRAFFIC ENGINEERING, D.P.W. 2633 MICHIGAN AVENUE (313) 240-5480 DEREK BULKLEY Derek.m.bulkley@att.com ASHOK PATEL AT&T WILL REQUIRE FIVE TO SEVEN BUSINESS DAYS ADVANCE NOTICE PRIOR TO ADJUSTING AshPat@detroitmi.ec FRAMES AND COVERS, CONTACT AT&T AT ILIBI CHACKLINKAL (734) 523-6883. CITY OF DETROIT

ELECTRIC POWER AND STREET LIGHTING PUBLIC LIGHTING
AUTHORITY OF DETROIT
65 CADILLAC SQUARE, SUITE 3100

DETROIT, MI 48226 (313) 324-8290 PHONE WEBSITE: www.pladetroit.org CITY OF DETROIT WATER MAINS & DETROIT WATER & SEWERAGE DEPARTMENT 6425 HUBER (CSF) A-219

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(313) 596-2900 (313) 224-1311 (313) 596-2978

B-25-K

B-103-E

POLICE CALL BOXES

(313) 596-2200 (313) 596-1450 PAVEMENT MARKINGS DTE, GAS COMPANY

DETROIT, MI 48226 (313) 224-1304 (313) 224-1315 (313) 407-4124 (313) 628-5641

(313) 934-2600

DTE, ELECTRIC COMPANY ONE ENERGY PLAZA IGS GROUP, 518SB DETROIT, MI 48226 SIGNS REMOVALS & INSTALLATIONS ROBIN O'CONNELL EXPOSED OR DAMAGED FACILITIES (313) 628-2923 DTE, ENERGY/MICHCON GAS TV CABLES

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(313) 237-9564 BRIANNA KOTELES GAS MAINS (313) 235-5111

(313) 235-9366

(313) 920-4488 (800) 477-4747

NOTE: CONTACT DTE TEN (10) WORKING DAYS PRIOR TO THE CONTRUCTION START DATE TO COORDINATE ADJUSTMENTS FOR DETROIT DETROIT THERMAL LLC STEAM LINES

(313) 921-1922 (313) 921-1972 ITC HOLDINGS CORP 27175 ENERGY WAY ELECTRICITY TRANSMISSION COMPAN NOVI, MI 48377 (248) 946-3322

MISS DIC ALL UNDERGROUND UTILITIES CALL THREE (3) WORKING DAYS BEFORE YOU DIG (800) 482-7171 OR 811 WAYNE COUNTY TRAFFIC OFFICE

(734) 955-2154

PROJECT LOCATION

SHEET 01 OF 39