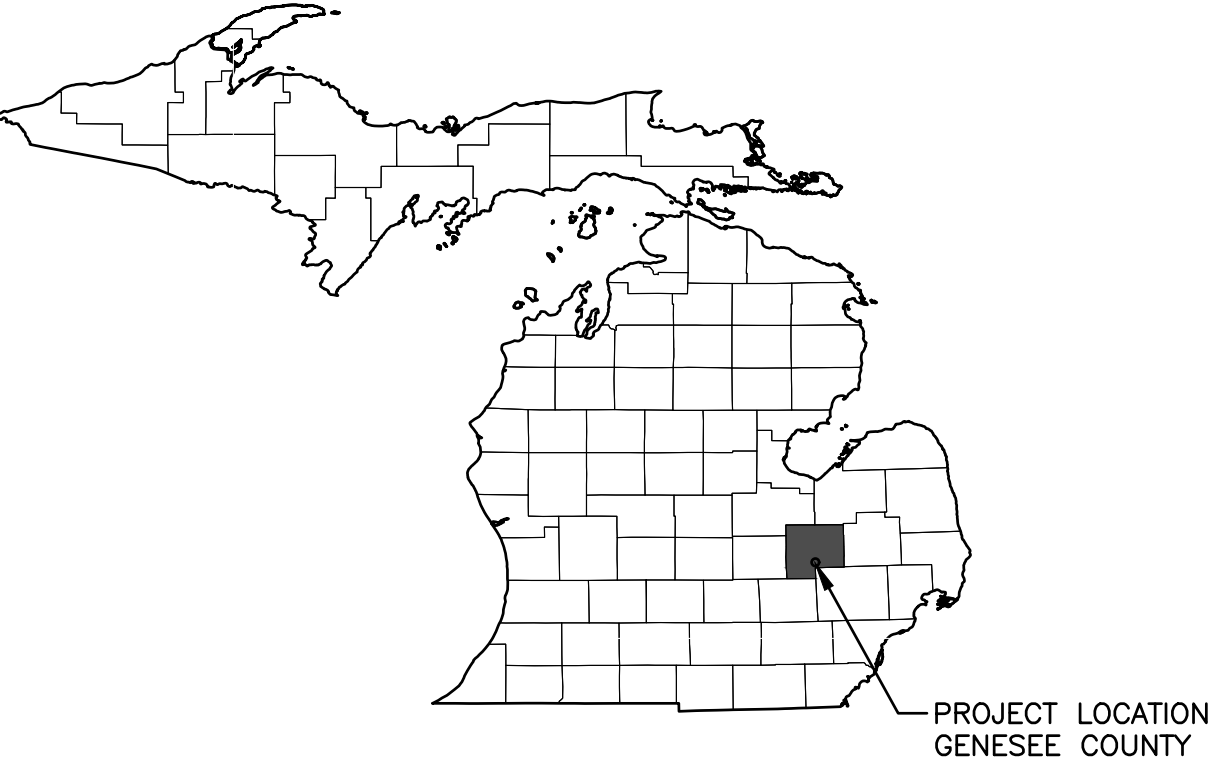


THE CITY OF FLINT
IN COOPERATION WITH THE
MICHIGAN DEPARTMENT OF TRANSPORTATION
AND FEDERAL HIGHWAY ADMINISTRATION

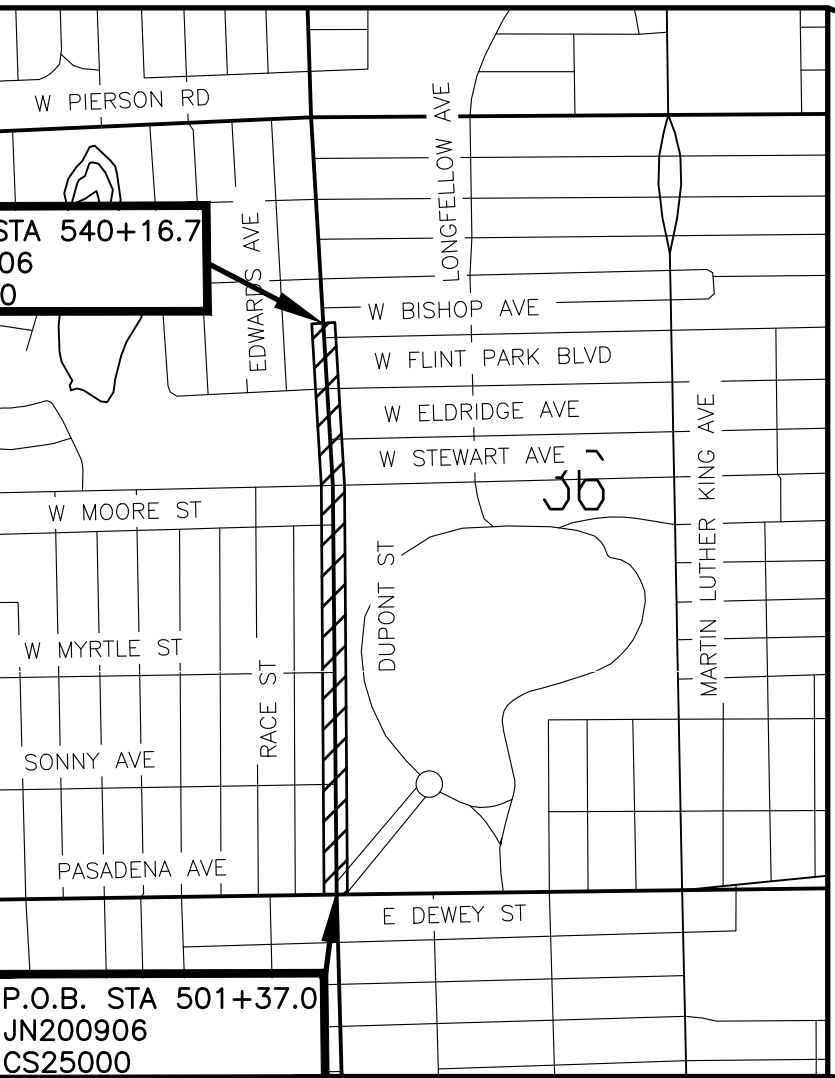
PLAN AND PROFILE OF PROPOSED
FLINT TIGER GRANT
DUPONT STREET AND ATHERTON ROAD
CITY OF FLINT, GENESEE COUNTY, MICHIGAN

THE DESIGN OF THIS ROAD IS BASED ON SECTION C 4R OF THE MICHIGAN DEPARTMENT OF TRANSPORTATION LOCAL AGENCY PROGRAM GUIDELINES FOR GEOMETRICS, 2017 EDITION. THE CONSTRUCTION OF THIS ROAD SHALL BE PER THE MICHIGAN DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION, 2012 EDITION, AS AMENDED AND ANY SUPPLEMENTAL SPECIFICATIONS ISSUED IN THE PROJECT PROPOSAL. THE PLACEMENT OF PAVEMENT MARKINGS AND SIGNS SHALL BE DONE IN ACCORDANCE WITH THE MICHIGAN MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, 2011 EDITION, AS AMENDED AND THE AASHTO GUIDE FOR THE DEVELOPMENT OF BICYCLE FACILITIES, 2012 EDITION.

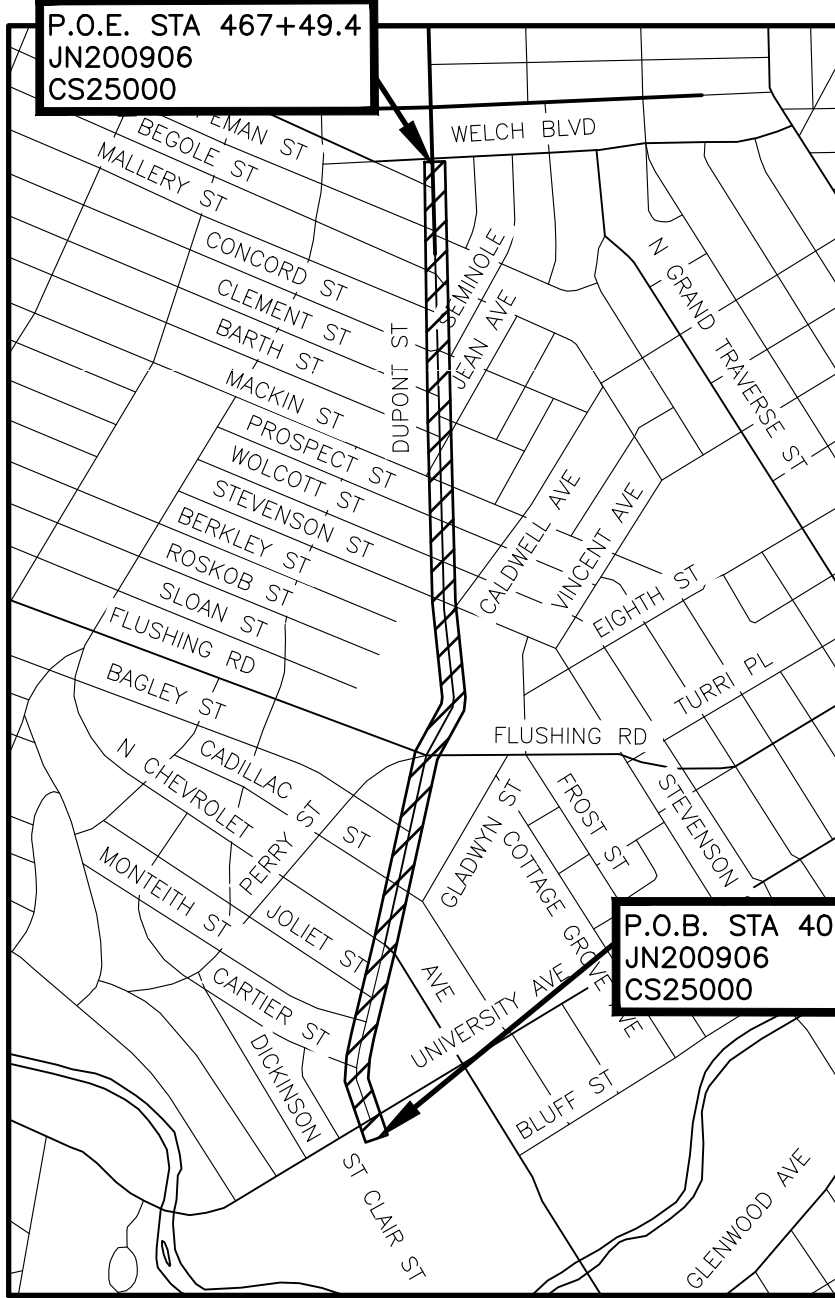


KEY MAP
NOT TO SCALE

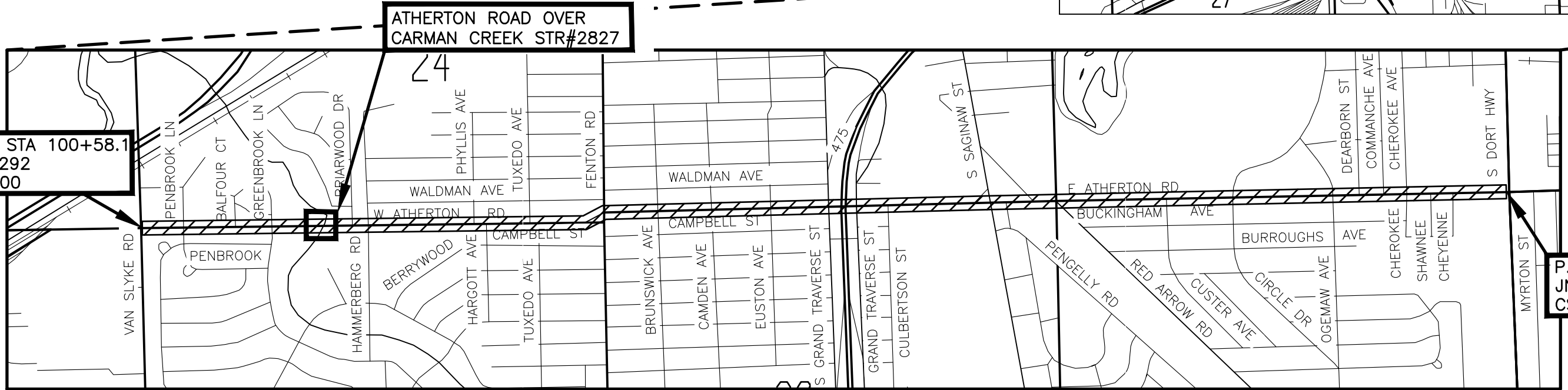
SHEET INDEX	
GENERAL SHEETS	SHEET NO.
COVER SHEET	1
PROJECT INFORMATION AND MISCELLANEOUS QUANTITIES	2
LEGEND	3
GENERAL NOTES	4
CITY OF FLINT NOTE SHEET	5
DETAILS	6-9
TYPICAL SECTIONS	10-19
ALIGNMENT SHEETS	20-24
MAINTENANCE OF TRAFFIC SHEETS	25-38
DUPONT STREET NORTH - REMOVAL, CONSTRUCTION AND WATER MAIN PLAN & PROFILE SHEETS	39-59
DUPONT STREET SOUTH - REMOVAL, CONSTRUCTION AND WATER MAIN PLAN & PROFILE SHEETS	60-94
ATHERTON ROAD - REMOVAL, CONSTRUCTION AND WATER MAIN PLAN & PROFILE SHEETS	95-160
DETAILED INTERSECTION GRADES	161-184
PAVEMENT MARKING AND SIGNING SHEETS	185-203
SIGN SPECIAL DETAILS	204
TRAFFIC SIGNAL SHEETS	205-234
ATHERTON ROAD BRIDGE OVER CARMAN CREEK	235-254
SOIL BORINGS SHEETS	255-263



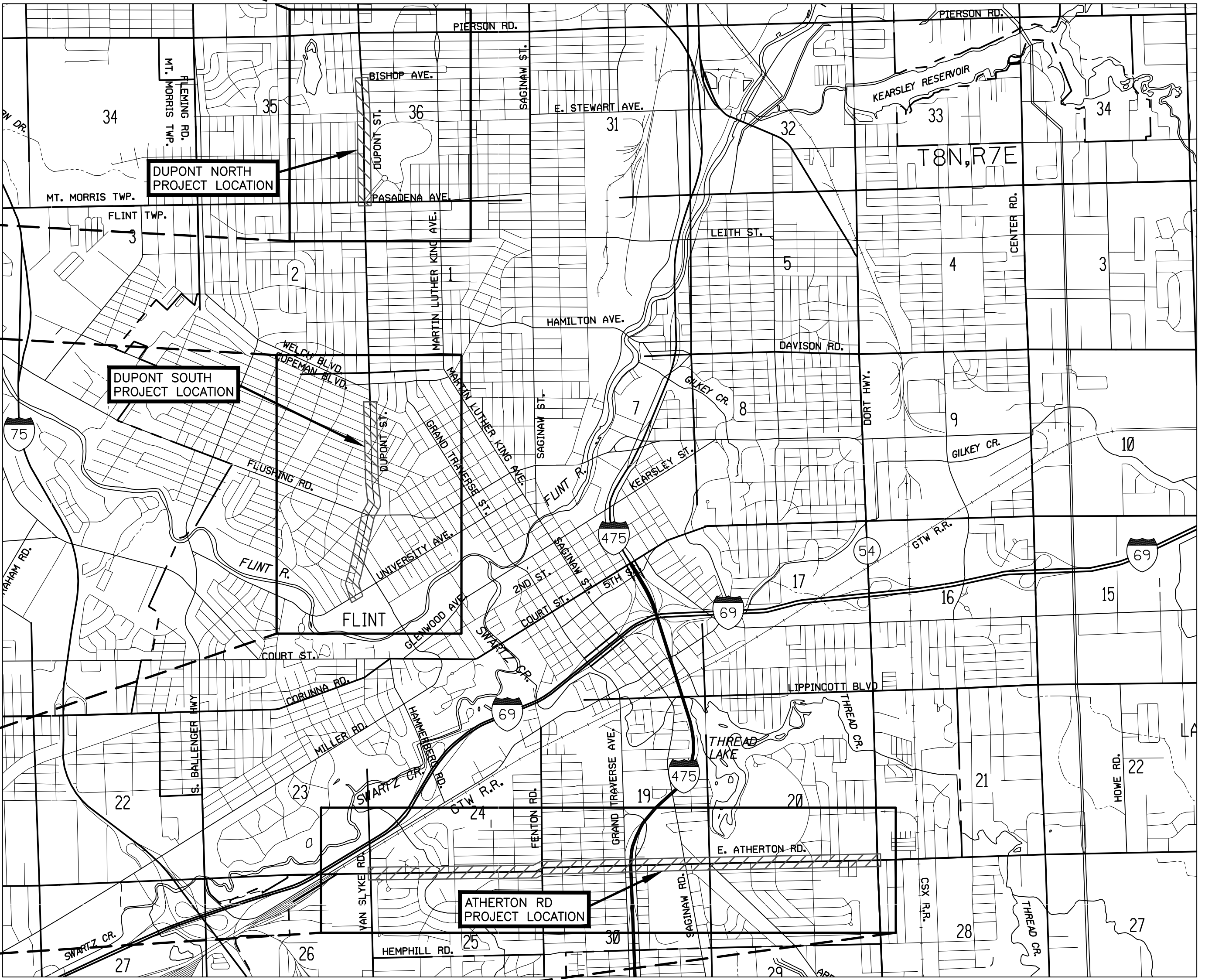
DUPONT STREET - NORTH
1"=1/4 MILE



DUPONT STREET - SOUTH
1"=1/4 MILE



ATHERTON ROAD
1"=1/4 MILE



LOCATION MAP
1"=1/2 MILE

JOB NUMBER DESCRIPTION

JN 200906
CS 25000 - TIGER GRANT FOR DUPONT, UNIVERSITY TO WELCH.

JN 201292
CS 25000 - TIGER GRANT FOR ATHERTON, VAN SLYKE TO M-54 ATHERTON OVER CARMAN CREEK (BRIDGE)

*APPLICABLE MDOT JOB NUMBER SHOWN AT THE BOTTOM CENTER OF PLAN SHEETS

CONTRACT FOR: 5.0 MILES OF FMA ROAD RECONSTRUCTION WITH CONCRETE CURB AND GUTTER, INCLUDING WATER MAIN REPLACEMENT, STORM SEWER IMPROVEMENTS, ADA COMPLIANT RAMP IMPROVEMENTS, TRAFFIC SIGNAL MODERNIZATION, BRIDGE RECONSTRUCTION, PAVEMENT MARKINGS AND RESTORATION.

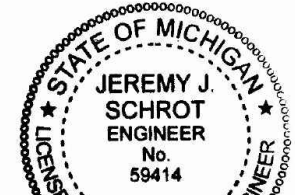
FINAL PLANS 4/19/19

JOB NO. COF1065.01F SHEET 1



555 S. Saginaw Street, Suite 201
Flint, MI 48602
810.235.2555
www.wadetrिम.com

PREPARED UNDER THE SUPERVISION OF:



JEREMY SCHROT, P.E., REG. NO. 6201059414



Know what's below.
Call before you dig.

PROJECT MANAGER: -
 C:\PW_WORK2\00846151\GDT-PLTS-NOTESLEGEND.DWG - 3.0 GENNOTES - PLOTTED 4/18/2019 11:44 AM BY RUGGLES, TIMOTHY
 FIELD BOOK INFORMATION: -

- PROJECT MANAGER: - FIELD BOOK INFORMATION: -
C:\PW_WORK2\00846151\GDT-PLTS-NOTES\LEGEND.DWG - 3.0 GENNOTES - PLOTTED 4/18/2019 11:4

PROJECT MANAGER:
C:\PW_WORK2\DO8

- PROJECT MANAGER:
C:\PW_WORK2\DO8

PROJECT MANAGER:
C:\PW_WORK2\DO8

- PROJECT MANAGER:
C:\PW_WORK2\DO8

PROJECT MANAGER:
C:\PW_WORK2\DO8

- PROJECT MANAGER:
C:\PW_WORK2\DO8

PROJECT MANAGER:
C:\PW_WORK2\DO8

- PROJECT MANAGER:
C:\PW_WORK2\DO8

PROJECT MANAGER:
C:\PW_WORK2\DO8

PROJECT MANAGER:
C:\PW_WORK2\DO8

- PROJECT MANAGER:
C:\PW_WORK2\DO8



PROJECT MANAGER:
C:\PW_WORK2\DO8

PROJECT MANAGER:
C:\PW_WORK2\DO8

PROJECT MANAGER: -
C:\PW_WORK2\00846151\GDT-PLTS-DETAILS-COF.DWG - CITY OF FLINT NOTE SHEET - PLOTTED 4/18/2019 11:45 AM BY RUGGLES, TIMOTHY
FIELD BOOK INFORMATION: -

- PROJECT MANAGER: -
FIELD BOOK INFORMATION: -
C:\PW_WORK2\00846151\GDT-PLTS-DETAILS-COF.DWG - CITY OF FLINT NOTE SHEET - PLOTTED 4/18

PROJECT MANAGER: -
C:\PW_WORK2\00846151\GDT-PLTS-DETAILS-COF.DWG - CITY OF FLINT NOTE SHEET - PLOTTED 4/18/2019 11:45 AM BY RUGGLES, TIMOTHY
FIELD BOOK INFORMATION: -

- PROJECT MANAGER: -
FIELD BOOK INFORMATION: -
C:\PW_WORK2\00846151\GDT-PLTS-DETAILS-COF.DWG - CITY OF FLINT NOTE SHEET - PLOTTED 4/18

CASTING AND COVER NOTES

1. THE CONTRACTOR SHALL PROVIDE CORPORATIONS (TO BE SUPERVISED BY THE CITY OF FLINT) ON THE WATER LINE FOR PRESSURE TESTING, CHLORINE ADDITION AND BLOW-OFF PURPOSES. THE CORPORATIONS SHALL HAVE COPPER PIPE EXTENDING TO THE GROUND SURFACE. THE CONTRACTOR SHALL REMOVE THE COPPER LINE UPON A SATISFACTORY TEST AND INSTALL A PLUG ON THE CORPORATION. AS A MINIMUM, CONTRACTOR SHALL PLACE A 2" CORPORATION WITH MUELLER THREADS INLET AND COPPER THREADS OUTLET ON EACH SIDE OF THE VALVES FOR TESTING AND CHLORINATION. THE CONTRACTOR IS REQUIRED TO CONFORM TO THE CURRENT MDEQ STANDARDS AND THE CITY OF FLINT REQUIREMENTS FOR WATER MAIN TESTING. HYDRANT SAMPLING IS NOT ACCEPTABLE.
2. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL FURNISH SHOP DRAWINGS AND MATERIAL CERTIFICATIONS, TO THE ENGINEER AND THE CITY OF FLINT WATER SERVICE CENTER VERIFYING THAT ALL WATER MAIN (AND APPURTENANCES) ITEMS USED ON THE PROJECT MEET THE REQUIREMENTS AND APPROVAL OF THE ENGINEER, CITY OF FLINT, AND MDOT STANDARDS, AS APPLICABLE.
3. MINIMUM HORIZONTAL DISTANCE BETWEEN SEWERS AND WATER MAIN SHALL BE 10'. VERTICAL SEPARATION SHALL BE 18".
4. THE CONTRACTOR SHALL ENCASE THE WATER MAIN IN CONCRETE FOR 3' BEYOND THE LIMITS WHERE VERTICAL SEPARATION BETWEEN WATER MAIN AND OTHER UTILITY IS LESS THAN 18". COST IS INCLUDED IN THE PRICES BID FOR THE WATER MAIN PAY ITEMS. DETAIL SHALL BE SUBMITTED FOR APPROVAL TO THE ENGINEER PRIOR TO PLACEMENT.
5. NO CONNECTION TO THE EXISTING WATER MAIN WILL BE MADE UNTIL APPROVAL OF THE PROPOSED WATER MAIN IS RECEIVED. THE CONTRACTOR MUST MAINTAIN SERVICE AT ALL TIMES EXCEPT DURING SERVICE LEAD INSTALLATIONS. CONTRACTOR SHALL NOTIFY RESIDENTS OF TEMPORARY SERVICE DISRUPTION A MINIMUM OF 24 HOURS IN ADVANCE.
6. ALL IN LINE BENDS, FITTINGS, TEES, SOLID SLEEVES, REDUCERS, AND FIRE HYDRANTS SHALL BE CONSTRUCTED WITH MECHANICAL JOINTS, AND ENCASED IN 8 MIL POLYETHYLENE. THE POLYETHYLENE FILM TUBE SHALL BE INSTALLED IN ACCORDANCE WITH ANSI/AWWA C 105/A21.5, METHOD A AND SHALL INCLUDE TAPING THE ENDS FULL CIRCUMFERENCE. METHOD A CONSISTS OF CUTTING THE POLYETHYLENE TUBE 2 FEET LONGER THAN THE PIPE TO PROVIDE AN OVERLAP AT THE JOINTS. THE COST OF THE POLYETHYLENE ENCASEMENT SHALL BE INCLUDED IN THE PRICES BID FOR THE WATER MAIN PAY ITEMS. RESTRAINING METHODS SHALL CONFORM TO STANDARD WATER DETAIL SHEET.
7. A CHDEQ WATER MAIN PERMIT HAS BEEN OBTAINED BY THE CITY OF FLINT PRIOR TO CONSTRUCTION. CHLORINATION/DISINFECTION PERFORMANCE AND ACCEPTANCE ARE THE RESPONSIBILITY OF THE CITY OF FLINT, AS PROVIDED FOR AND WITH SUCH LIMITATIONS, AS DESCRIBED IN THE SPECIAL PROVISION FOR WATER MAIN WORK IN THE BID PROPOSAL.
8. THE CONTRACTOR SHALL SUPPLY VALVES AND SOLID MECHANICAL JOINT SLEEVES, AS NOTED ON THE PLANS, THAT WILL FIT THE EXISTING MAINS. CONTACT THE CITY OF FLINT WATER SERVICE CENTER FOR PRE-APPROVED CITY VENDORS. ALL FITTINGS SHALL BE RIGHT HAND OPEN.
9. HYDRANTS SHALL BE MUELLER SUPER CENTURION OR EAST JORDON BR-250 CONFORMING TO CURRENT AWWA C-502. UNLESS OTHERWISE DIRECTED BY THE ENGINEER, LOCATE ALL HYDRANTS 2.0' CLEAR FROM THE RIGHT OF WAY, SERVICE CURB BOXES AND HYDRANT VALVE BOXES 2.0' MIN. BEHIND PROPOSED CURB AND 0.3' MIN. FROM PROPOSED SIDEWALK. SEE FIRE HYDRANT DETAIL SHEET 7 FOR MORE INFORMATION.
10. ALL GATEWELL STRUCTURES SHALL BE PRECAST CONCRETE.
11. BIDDERS ARE TO INCLUDE ALL COSTS AND TIME TO OBTAIN AND COMPLY WITH PROCEDURES, APPROVALS, CHARGES AND ALL COORDINATION WITH THE CITY OF FLINT INCLUSIVE TO THE PROJECT. ACTIVITIES TO BE COORDINATED INCLUDE, BUT ARE NOT LIMITED TO, INSPECTION, TESTING, CHLORINATION, FLUSHING, PLACEMENT OF CORPORATIONS AND SERVICE LEADS, PLACEMENT OF TAPPING VALVES, AND PLACEMENT OF CONNECTIONS TO EXISTING WATERMAIN. THERE WILL BE NO CONSIDERATION GIVEN TO CLAIMS BY THE CONTRACTOR FOR ADDITIONAL COMPENSATION OR EXTENSION OF CONTRACT TIME FOR FAILURE TO INCLUDE THESE COSTS AND PROCEDURAL TIME IN THEIR BID (CONTRACT AMOUNT) AND PROGRESS SCHEDULE.
12. ALL WATER HYDRANTS, VALVES, FRAMES AND COVERS SALVAGED SHALL BE STOCKPILED IN AN APPROVED LOCATION FOR CITY FORCES TO COLLECT. ALL MATERIAL NOT WANTED BY CITY SHALL BE DISPOSED OF BY THE CONTRACTOR.
13. CONTRACTOR TO BORE AROUND OR SUPPORT AND ENSURE STABILITY OF EXISTING UTILITY POLE DURING PLACEMENT OF PROPOSED WATERMAIN.

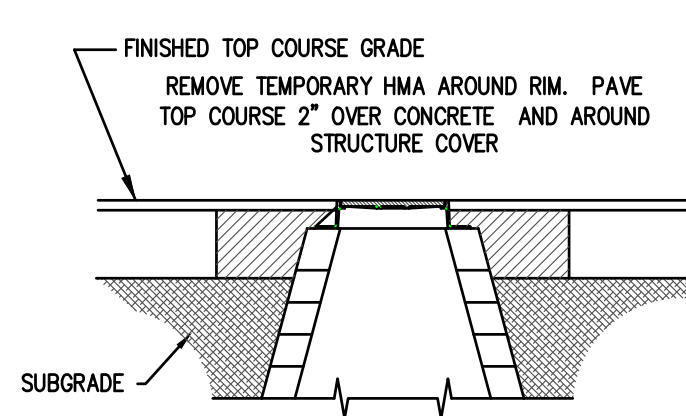
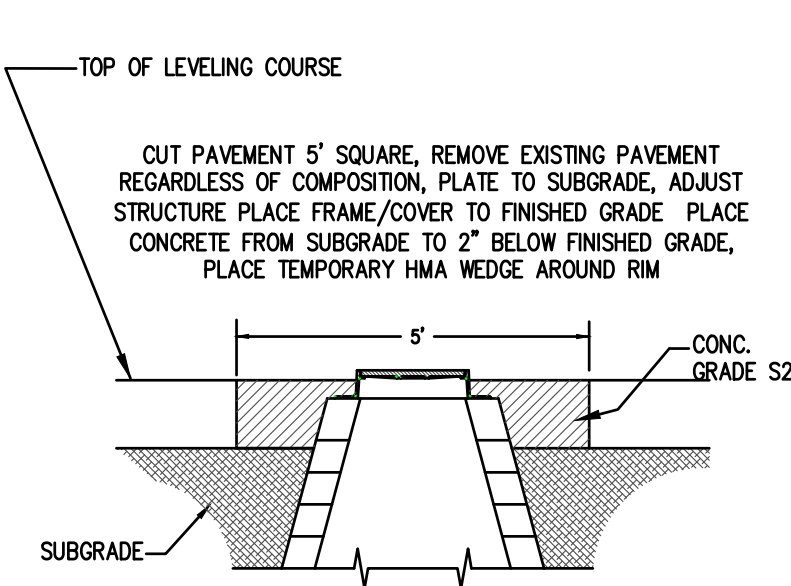
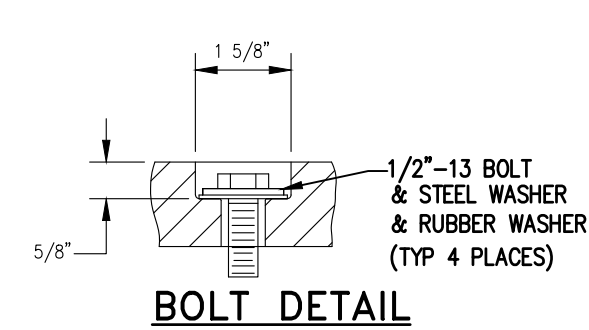
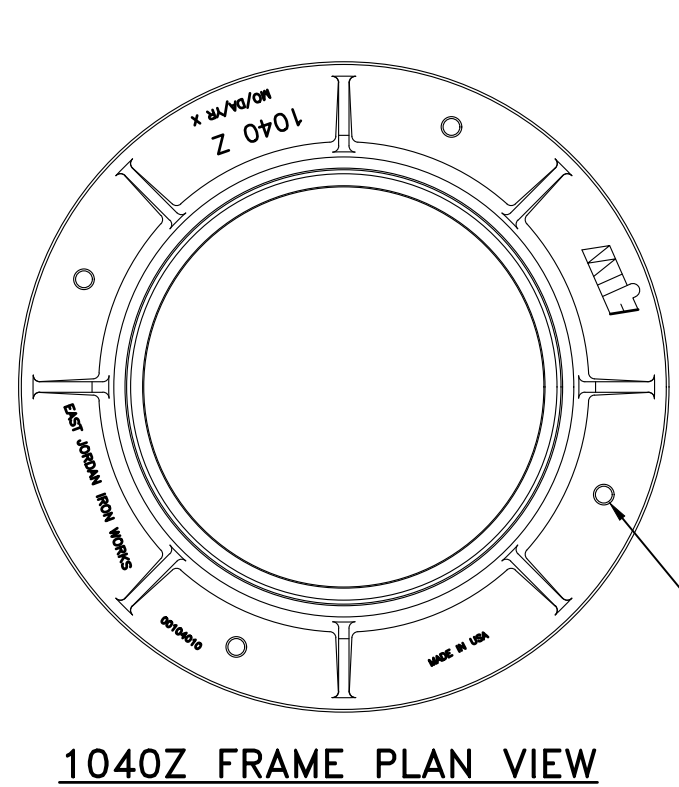
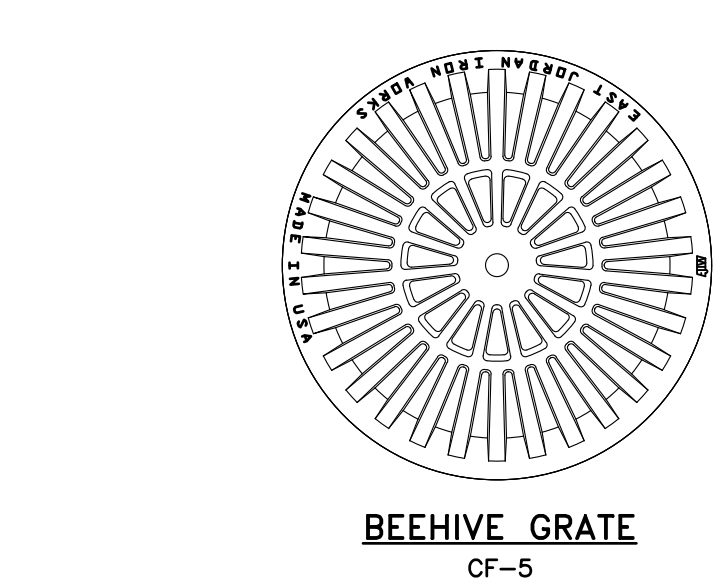
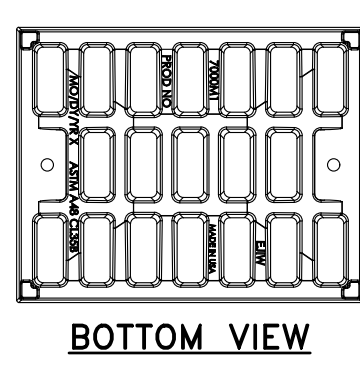
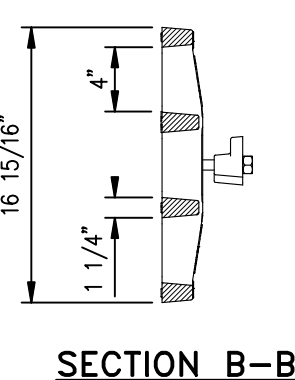
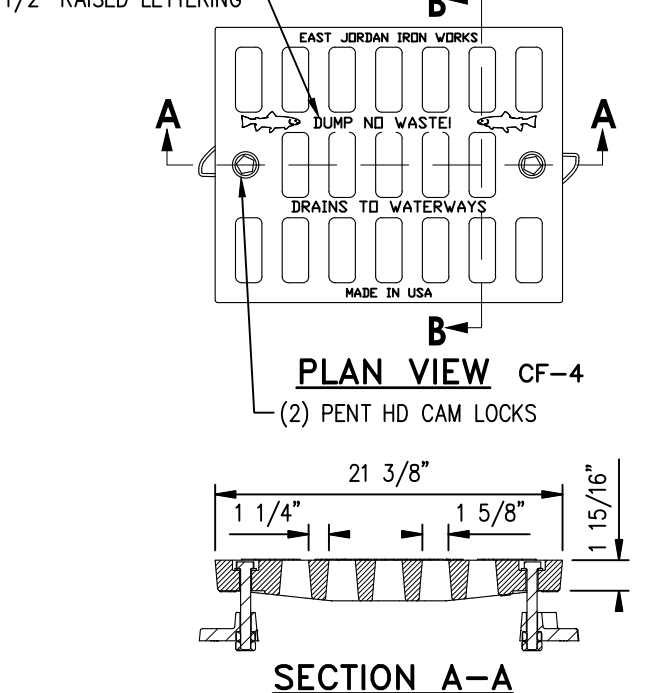
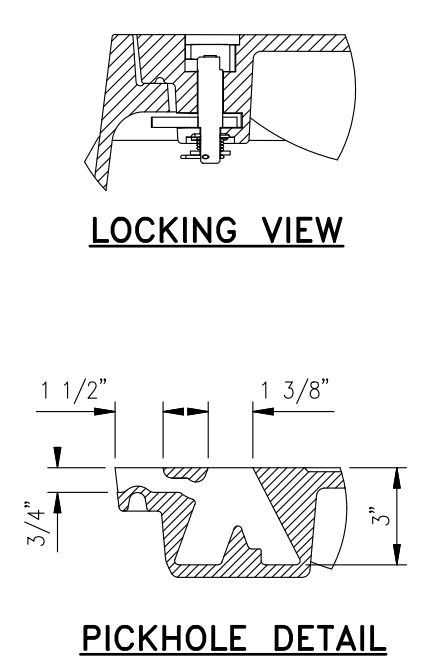
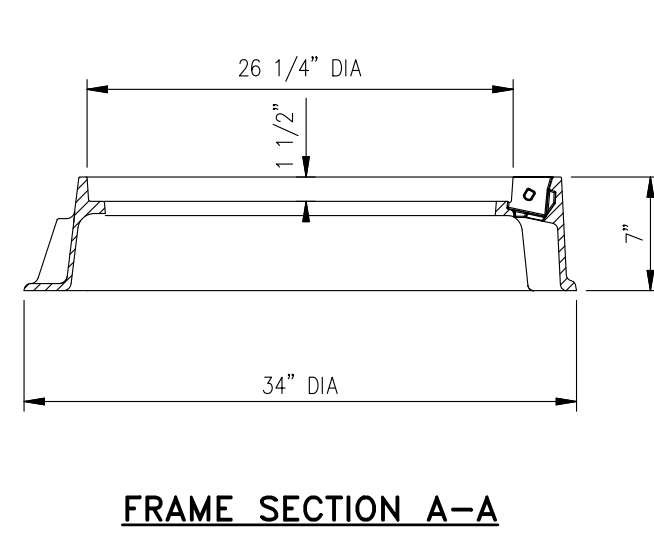
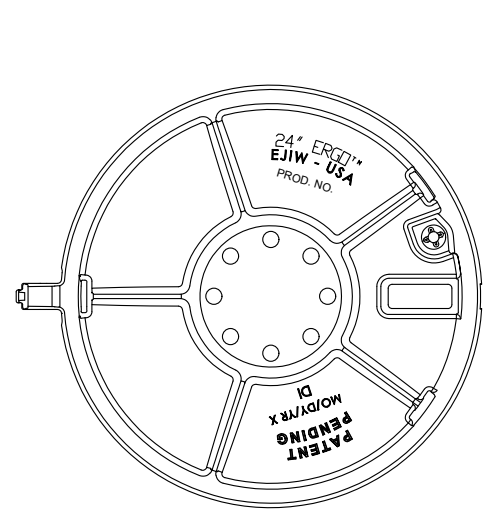
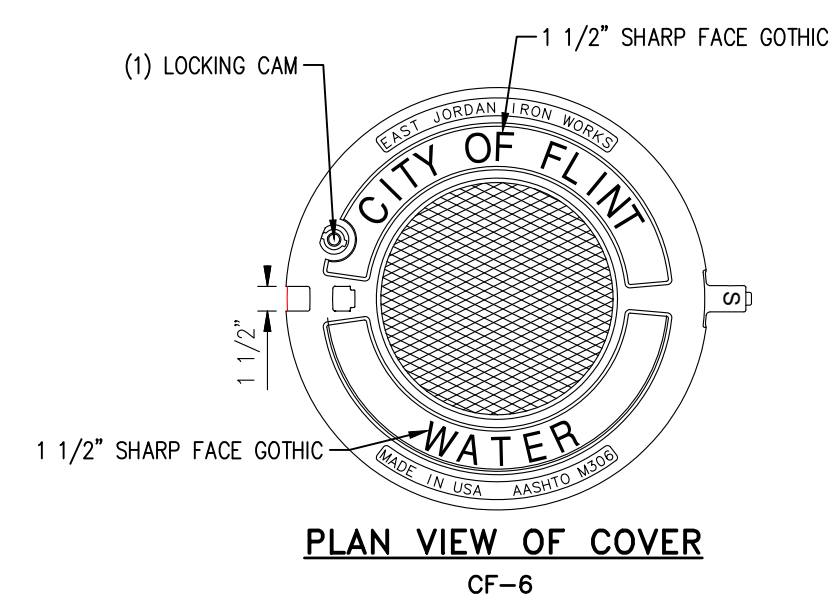
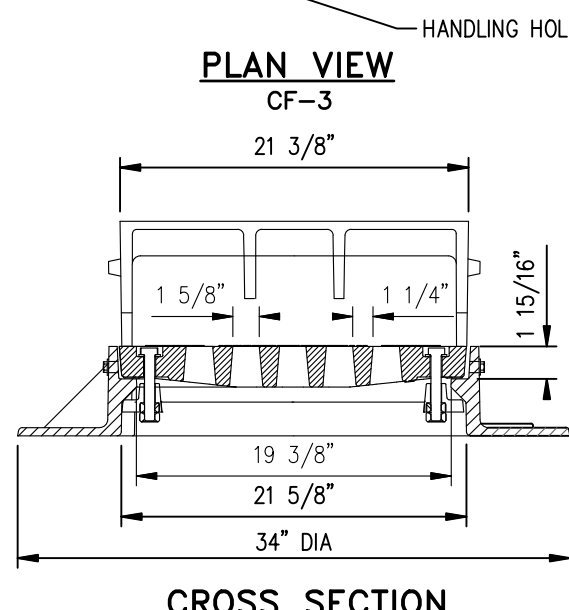
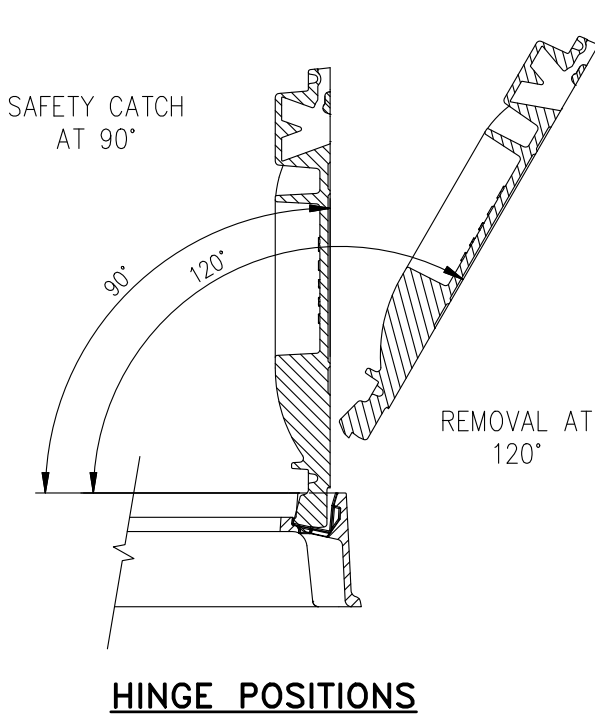
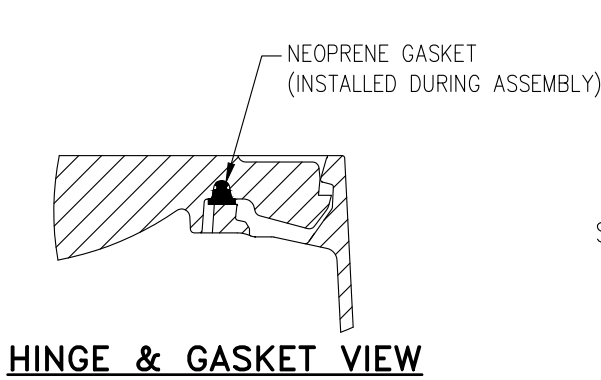
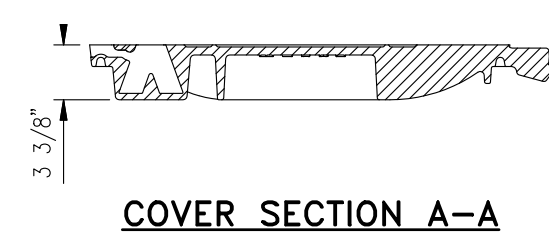
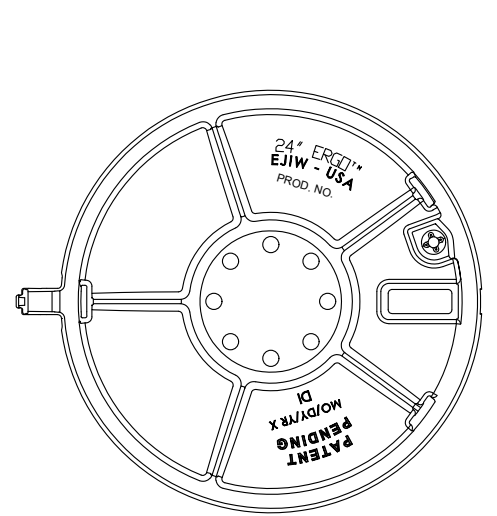
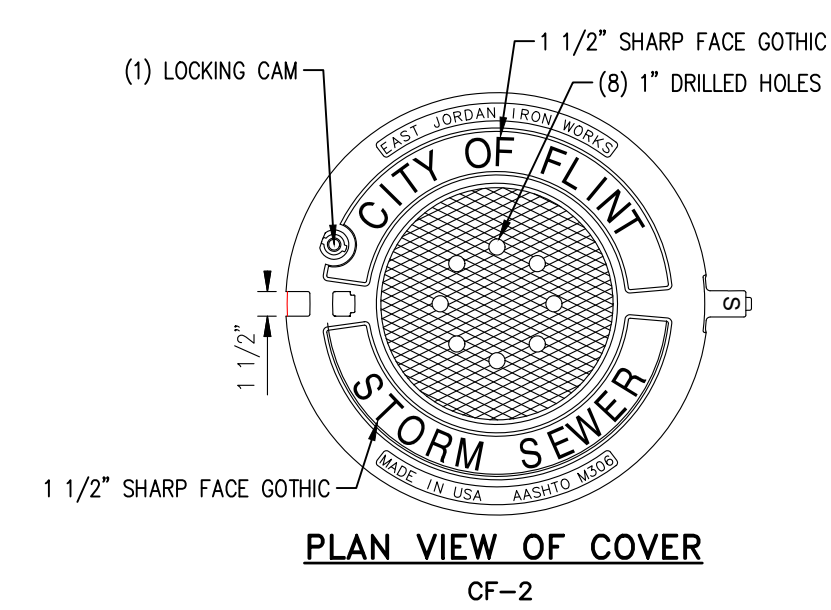
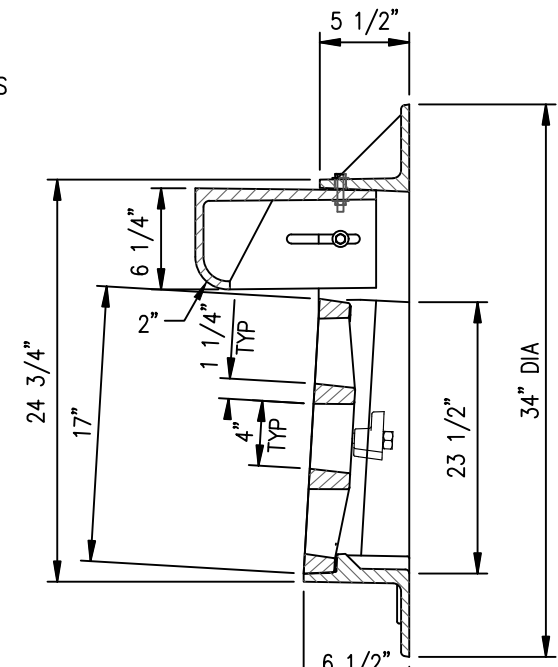
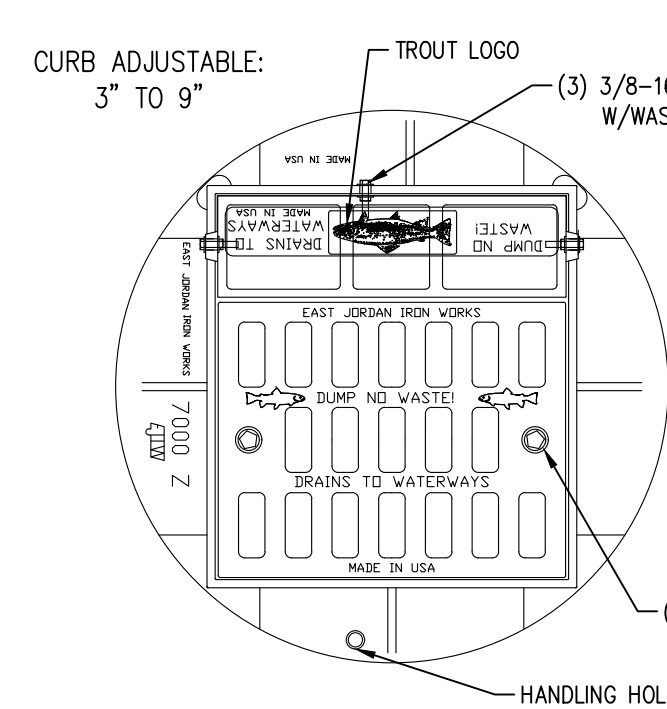
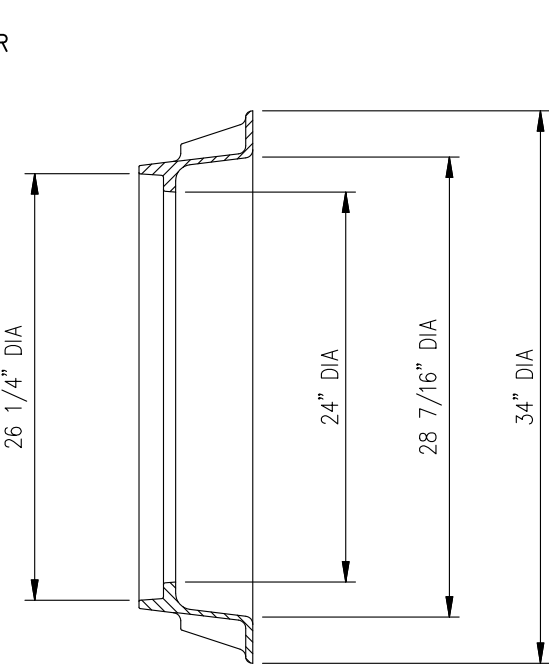
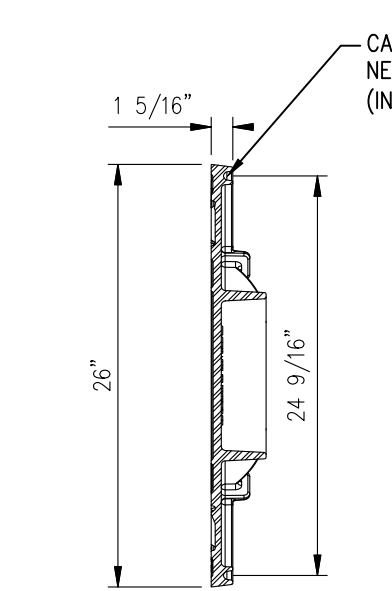
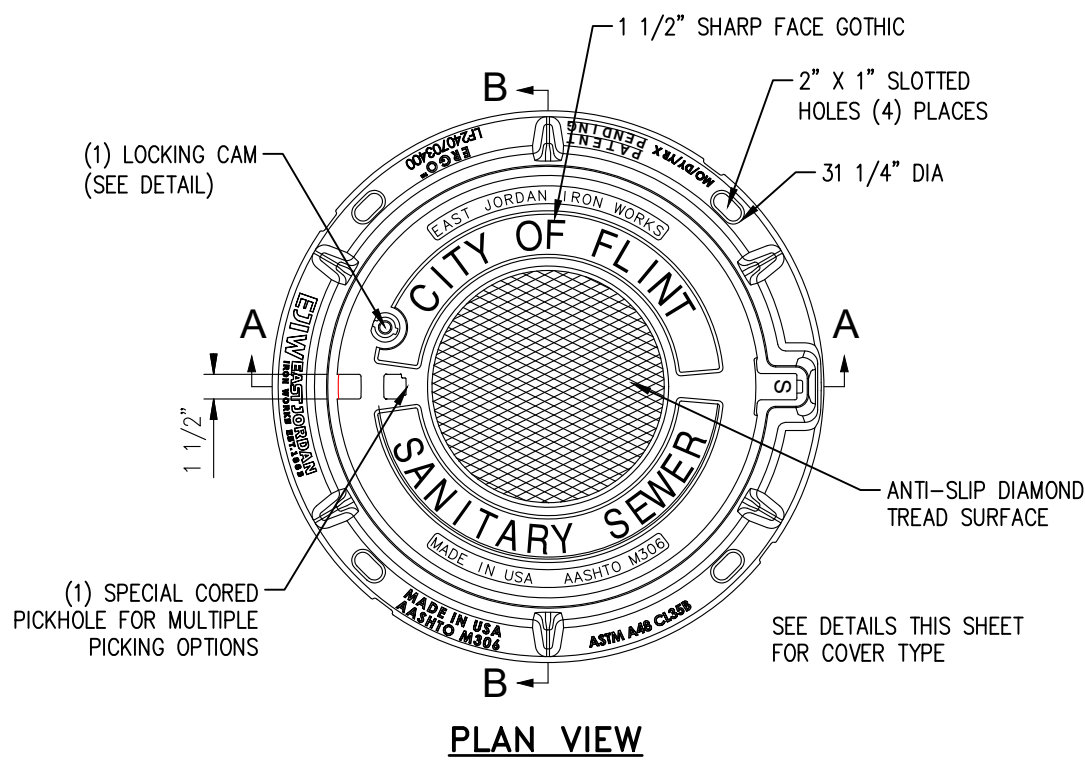
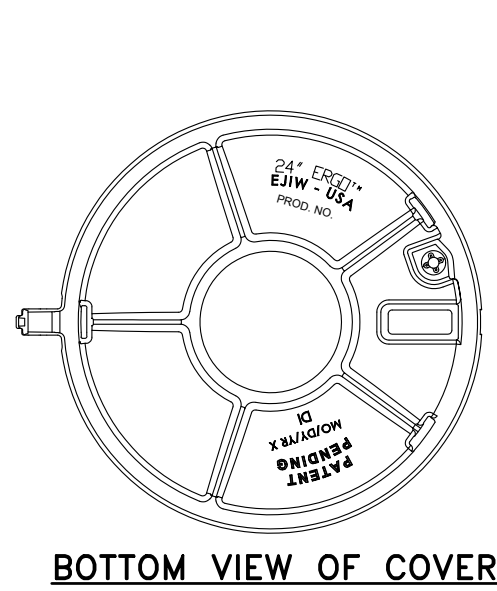
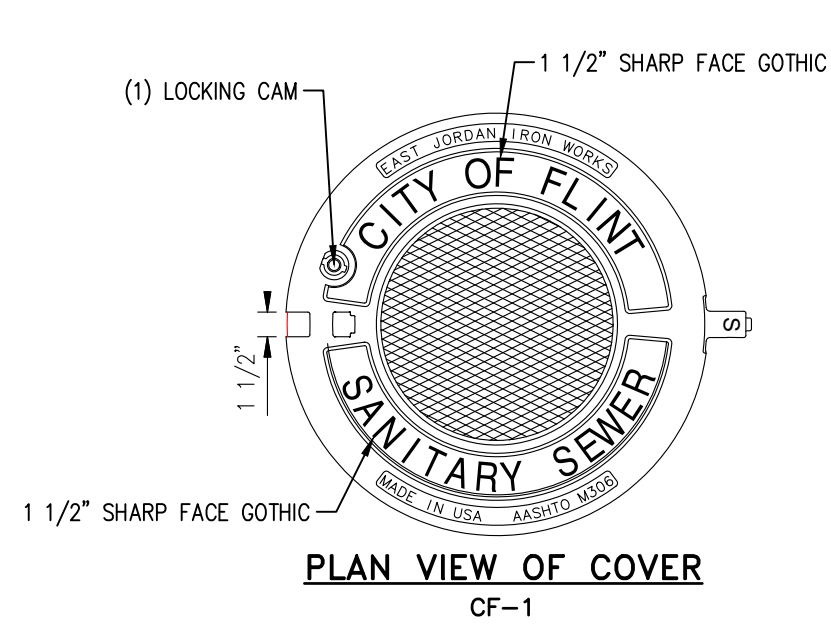
1. THE CONTRACTOR SHALL PROVIDE CORPORATIONS (TO BE SUPERVISED BY THE CITY OF FLINT) ON THE WATER LINE FOR PRESSURE TESTING, CHLORINE ADDITION AND BLOW-OFF PURPOSES. THE CORPORATIONS SHALL HAVE COPPER PIPE EXTENDING TO THE GROUND SURFACE. THE CONTRACTOR SHALL REMOVE THE COPPER LINE UPON A SATISFACTORY TEST AND INSTALL A PLUG ON THE CORPORATION. AS A MINIMUM, CONTRACTOR SHALL PLACE A 2" CORPORATION WITH MUELLER THREADS INLET AND COPPER THREADS OUTLET ON EACH SIDE OF THE VALVES FOR TESTING AND CHLORINATION. THE CONTRACTOR IS REQUIRED TO CONFORM TO THE CURRENT MDEQ STANDARDS AND THE CITY OF FLINT REQUIREMENTS FOR WATER MAIN TESTING. HYDRANT SAMPLING IS NOT ACCEPTABLE.
2. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL FURNISH SHOP DRAWINGS AND MATERIAL CERTIFICATIONS, TO THE ENGINEER AND THE CITY OF FLINT WATER SERVICE CENTER VERIFYING THAT ALL WATER MAIN (AND APPURTENANCES) ITEMS USED ON THE PROJECT MEET THE REQUIREMENTS AND APPROVAL OF THE ENGINEER, CITY OF FLINT, AND MDOT STANDARDS, AS APPLICABLE.
3. MINIMUM HORIZONTAL DISTANCE BETWEEN SEWERS AND WATER MAIN SHALL BE 10'. VERTICAL SEPARATION SHALL BE 18".
4. THE CONTRACTOR SHALL ENCASE THE WATER MAIN IN CONCRETE FOR 3' BEYOND THE LIMITS WHERE VERTICAL SEPARATION BETWEEN WATER MAIN AND OTHER UTILITY IS LESS THAN 18". COST IS INCLUDED IN THE PRICES BID FOR THE WATER MAIN PAY ITEMS. DETAIL SHALL BE SUBMITTED FOR APPROVAL TO THE ENGINEER PRIOR TO PLACEMENT.
5. NO CONNECTION TO THE EXISTING WATER MAIN WILL BE MADE UNTIL APPROVAL OF THE PROPOSED WATER MAIN IS RECEIVED. THE CONTRACTOR MUST MAINTAIN SERVICE AT ALL TIMES EXCEPT DURING SERVICE LEAD INSTALLATIONS. CONTRACTOR SHALL NOTIFY RESIDENTS OF TEMPORARY SERVICE DISRUPTION A MINIMUM OF 24 HOURS IN ADVANCE.
6. ALL IN LINE BENDS, FITTINGS, TEES, SOLID SLEEVES, REDUCERS, AND FIRE HYDRANTS SHALL BE CONSTRUCTED WITH MECHANICAL JOINTS, AND ENCASED IN 8 MIL POLYETHYLENE. THE POLYETHYLENE FILM TUBE SHALL BE INSTALLED IN ACCORDANCE WITH ANSI/AWWA C 105/A21.5, METHOD A AND SHALL INCLUDE TAPING THE ENDS FULL CIRCUMFERENCE. METHOD A CONSISTS OF CUTTING THE POLYETHYLENE TUBE 2 FEET LONGER THAN THE PIPE TO PROVIDE AN OVERLAP AT THE JOINTS. THE COST OF THE POLYETHYLENE ENCASEMENT SHALL BE INCLUDED IN THE PRICES BID FOR THE WATER MAIN PAY ITEMS. RESTRAINING METHODS SHALL CONFORM TO STANDARD WATER DETAIL SHEET.
7. A CHDEQ WATER MAIN PERMIT HAS BEEN OBTAINED BY THE CITY OF FLINT PRIOR TO CONSTRUCTION. CHLORINATION/DISINFECTION PERFORMANCE AND ACCEPTANCE ARE THE RESPONSIBILITY OF THE CITY OF FLINT, AS PROVIDED FOR AND WITH SUCH LIMITATIONS, AS DESCRIBED IN THE SPECIAL PROVISION FOR WATER MAIN WORK IN THE BID PROPOSAL.
8. THE CONTRACTOR SHALL SUPPLY VALVES AND SOLID MECHANICAL JOINT SLEEVES, AS NOTED ON THE PLANS, THAT WILL FIT THE EXISTING MAINS. CONTACT THE CITY OF FLINT WATER SERVICE CENTER FOR PRE-APPROVED CITY VENDORS. ALL FITTINGS SHALL BE RIGHT HAND OPEN.
9. HYDRANTS SHALL BE MUELLER SUPER CENTURION OR EAST JORDON BR-250 CONFORMING TO CURRENT AWWA C-502. UNLESS OTHERWISE DIRECTED BY THE ENGINEER, LOCATE ALL HYDRANTS 2.0' CLEAR FROM THE RIGHT OF WAY, SERVICE CURB BOXES AND HYDRANT VALVE BOXES 2.0' MIN. BEHIND PROPOSED CURB AND 0.3' MIN. FROM PROPOSED SIDEWALK. SEE FIRE HYDRANT DETAIL SHEET 7 FOR MORE INFORMATION.
10. ALL GATEWELL STRUCTURES SHALL BE PRECAST CONCRETE.
11. BIDDERS ARE TO INCLUDE ALL COSTS AND TIME TO OBTAIN AND COMPLY WITH PROCEDURES, APPROVALS, CHARGES AND ALL COORDINATION WITH THE CITY OF FLINT INCLUSIVE TO THE PROJECT. ACTIVITIES TO BE COORDINATED INCLUDE, BUT ARE NOT LIMITED TO, INSPECTION, TESTING, CHLORINATION, FLUSHING, PLACEMENT OF CORPORATIONS AND SERVICE LEADS, PLACEMENT OF TAPPING VALVES, AND PLACEMENT OF CONNECTIONS TO EXISTING WATERMAIN. THERE WILL BE NO CONSIDERATION GIVEN TO CLAIMS BY THE CONTRACTOR FOR ADDITIONAL COMPENSATION OR EXTENSION OF CONTRACT TIME FOR FAILURE TO INCLUDE THESE COSTS AND PROCEDURAL TIME IN THEIR BID (CONTRACT AMOUNT) AND PROGRESS SCHEDULE.
12. ALL WATER HYDRANTS, VALVES, FRAMES AND COVERS SALVAGED SHALL BE STOCKPILED IN AN APPROVED LOCATION FOR CITY FORCES TO COLLECT. ALL MATERIAL NOT WANTED BY CITY SHALL BE DISPOSED OF BY THE CONTRACTOR.
13. CONTRACTOR TO BORE AROUND OR SUPPORT AND ENSURE STABILITY OF EXISTING UTILITY POLE DURING PLACEMENT OF PROPOSED WATERMAIN.

ISSUED FOR:	DATE:	BY:
GI PLANS	10/25/18	JJS
FINAL REVIEW	2/25/19	JJS
FINAL PLANS	4/19/19	JJS

JOB NO.
COF1065.01F

SHEET
5

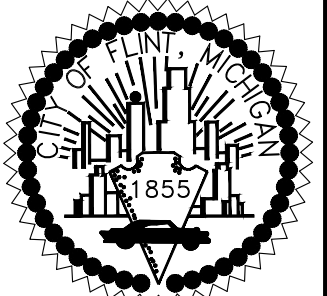
PROJECT MANAGER: C:\P\WORK\2\0846\51\GDT-PLTS-DETAILS-COF.DWG - CITY OF FLINT DETAILS - PLOTTED 4/18/2019 11:45 AM BY RUGGLES, TIMOTHY



DRAINAGE STRUCTURE COVERS						
COVER	CF-1	CF-2	CF-3	CF-4	CF-5	CF-6
COVER TYPE	EJW ERGO HINGED COVER W/ CAM LOCKS, STAMPED CITY OF FLINT - SANITARY PER DETAILS ON THIS SHEET.	EJW ERGO HINGED COVER W/ CAM LOCKS, STAMPED CITY OF FLINT - STORM PER DETAILS ON THIS SHEET.	CURB FACE EJW 7000 Z, T1 & M1	CURB CUT EJW 7000 M	BEE HIVE EJW 1040 Z & O2	EJW ERGO HINGED COVER W/ CAM LOCKS, STAMPED CITY OF FLINT - WATER PER DETAILS ON THIS SHEET.
PRODUCT NUMBER	00104087L01	00104088L01	00700033C01	00700010 00700044	103901	00104089L01

NOTE: PARTS MAY BE OBTAINED BY EAST JORDAN IRON WORKS OR APPROVED EQUAL

DEPARTMENT OF PUBLIC WORKS
ENGINEERING AND UTILITIES
TITLE: CASTING DETAIL
DRAWN BY: _____ REVISIONS: _____
CHECKED BY: _____
SCALE: NO SCALE SHEET



CITY OF FLINT
1101 SOUTH SAGINAW STREET
FLINT, MI 48502
FLINT TIGER GRANT
CITY OF FLINT CASTING DETAILS

ISSUED FOR: DATE: BY: G1 PLANS 10/25/18 JJS
FINAL REVIEW 2/25/19 JJS
FINAL PLANS 4/18/19 JJS

JOB NO. COF1065.01F

SHEET



SECTION B-B
(** DRIVEWAY DETAIL 2)



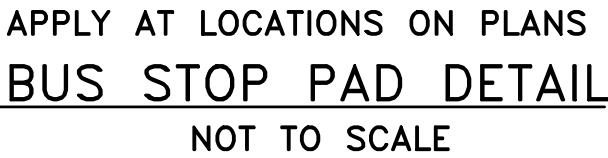
NOTES:

1. ALL PREPARATION WORK, INCLUDING EDGE TRIMMING, PAVEMENT REMOVE, GRADING, EXCAVATION AND EMBANKMENT SHALL BE INCLUDED IN THE PAY ITEM "EXCAVATION, EARTH, MODIFIED" (SYD).
2. CONSTRUCTION JOINTS AT EXISTING SURFACES SHALL BE BUTT JOINTS. FEATHERED JOINTS WILL NOT BE ALLOWED WHEN CONSTRUCTING DRIVE APPROACHES.
3. DRIVE PROFILE: PER R-29 SERIES
4. REMOVING EXISTING DRIVEWAY PAVEMENT SHALL BE PAID FOR AS "PAVT, REM, MODIFIED" (SYD) AS SPECIFIED IN THE PLANS.

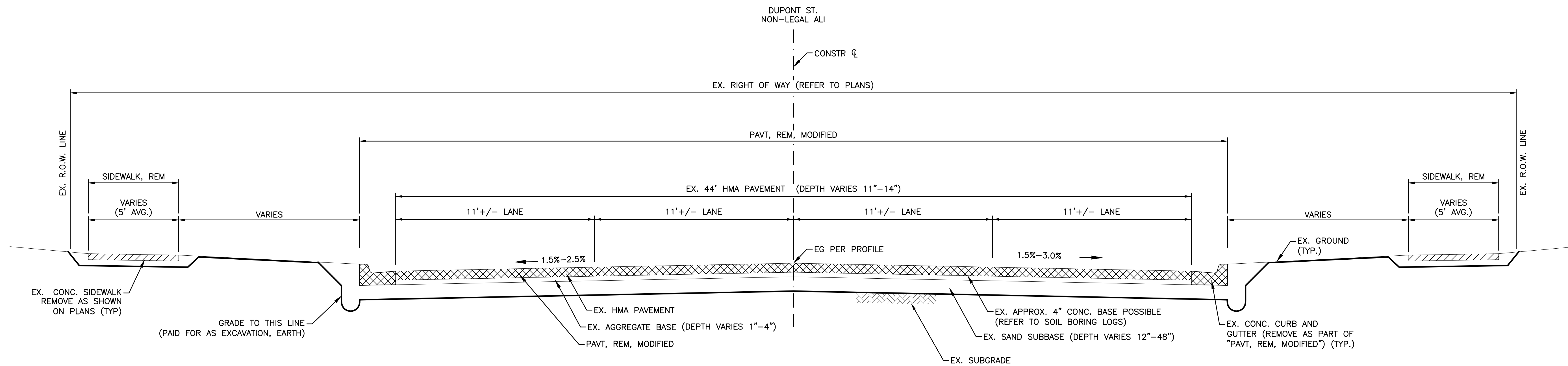


Know what's **below**.
Call before you dig.

<p>ISSUED FOR: DATE: BY:</p> <p>GI PLANS 10/25/18 JJS</p> <p>FINAL REVIEW 2/25/19 JJS</p> <p>FINAL PLANS 4/19/19 JJS</p>		<p>1101 SOUTH SAGINAW STREET</p> <p>FLINT, MI 48502</p> <p>FLINT TIGER GRANT</p> <p>MISCELLANEOUS DETAILS 1</p>		<p>555 S. Saginaw Street, Suite 201</p> <p>Flint, MI 48502</p> <p>810.235.2555</p> <p>www.wadetrims.com</p>		<p>WADE TRIM</p> 		<p>REV#</p> <p>DATE</p> <p>DESCRIPTION</p>		<p>BY</p>
<p>JOB NO.</p> <p>COF1065.01F</p>		<p>SHEET</p> <p>8</p>								



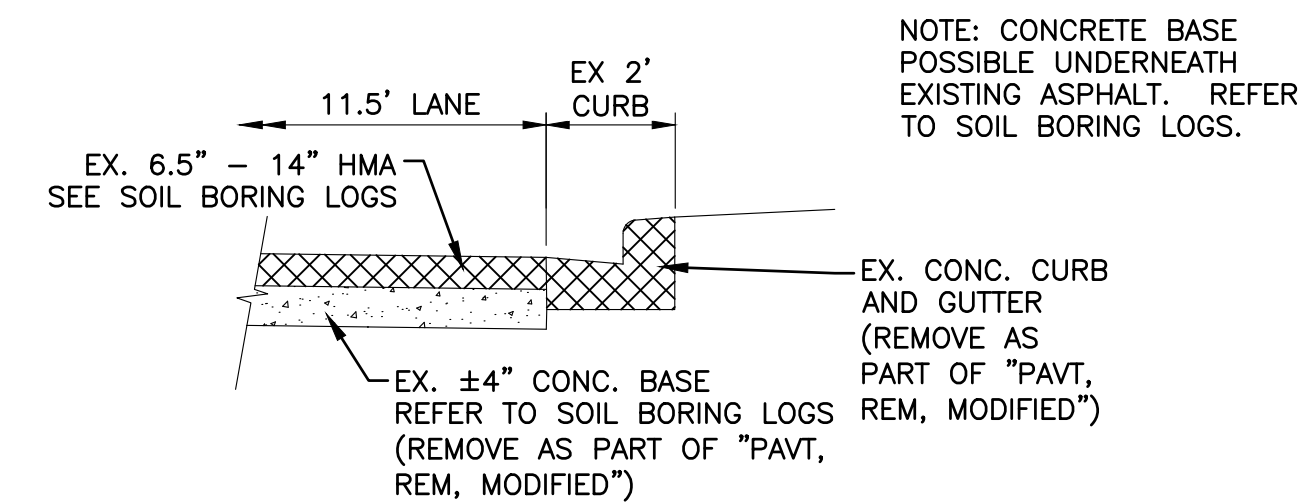
PROJECT MANAGER: C:\P\WORK\2\08552519\CRP-PLUS-TYPICAL.DWG - TYP. 2 - PLOTTED 4/16/2019 11:45 AM BY: RUGGLES, TIMOTHY



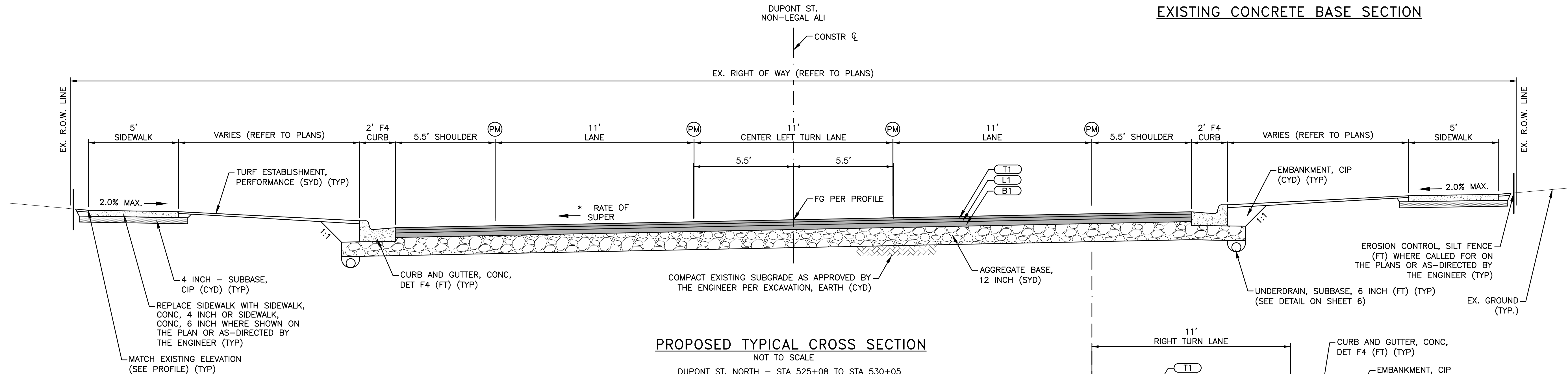
EXISTING TYPICAL CROSS SECTION

NOT TO SCALE

DUPONT ST. NORTH - POB STA 501+37 TO POE STA 540+17
PASADENA AVE. TO BISHOP AVE.



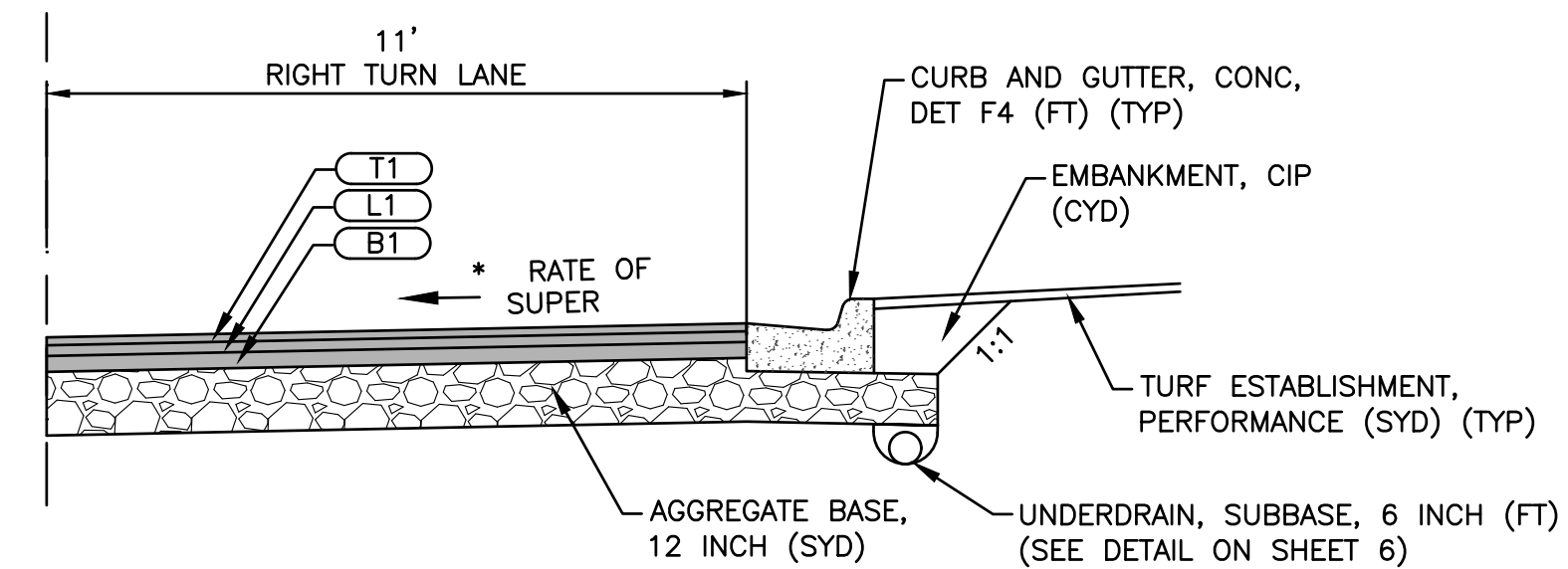
EXISTING CONCRETE BASE SECTION



PROPOSED TYPICAL CROSS SECTION

NOT TO SCALE

DUPONT ST. NORTH - STA 525+08 TO STA 530+05



SECTION TO APPLY:
STA 526+23 TO STA 529+50

NOTE:
TRANSITION FROM PROPOSED CROSS SLOPE TO EXISTING CROSS SLOPE FROM STATION 538+00 TO POE.



CITY OF FLINT
1101 SOUTH SAGINAW STREET
FLINT, MI 48502
DUPONT STREET - NORTH
TYPICAL SECTIONS - DUPONT NORTH 2

ISSUED FOR: DATE: BY:
GI PLANS 10/25/18 JUS
FINAL REVIEW 2/25/19 JUS
FINAL PLANS 4/19/19 JUS

JOB NO.
COF1065.01F

SHEET

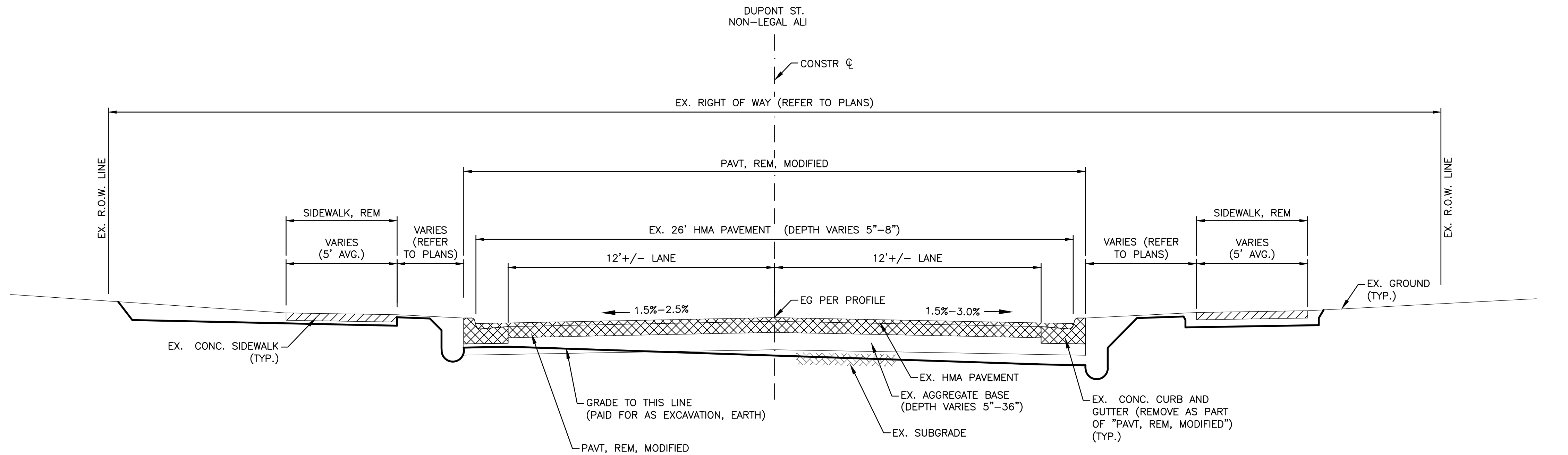
11

555 S. Saginaw Street, Suite 201
Flint, MI 48502
810.252.2555
www.wadetrims.com



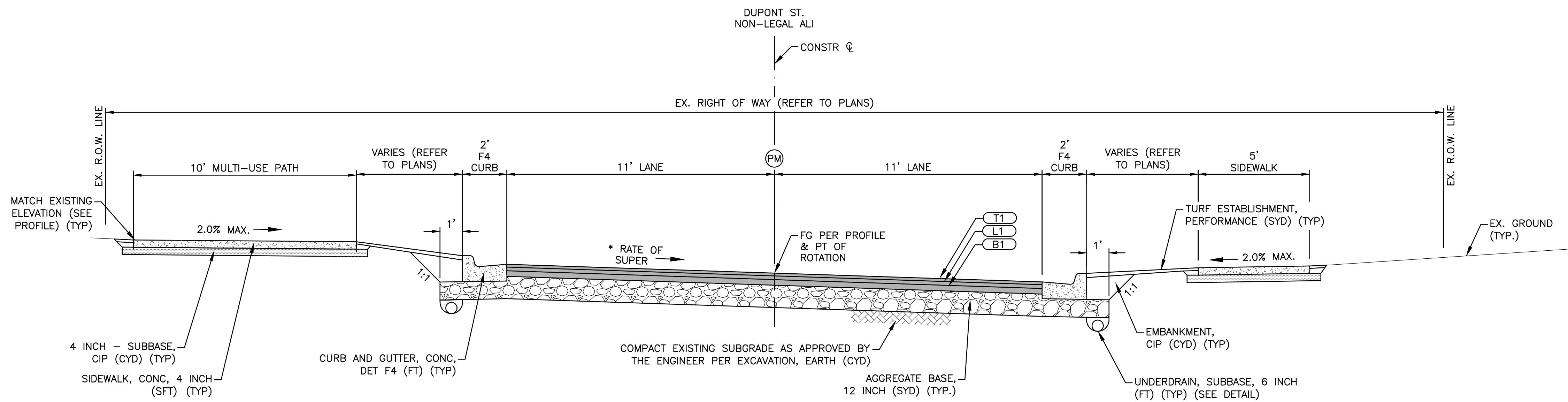
© Wade Trim Group, Inc.

PROJECT MANAGER: Jeremy Schott
C:\PL\WORK\2\0855237\0855237-TYPICAL.DWG - TYP. SEC. 1 - PLOTTED 4/19/2019 11:48 AM BY WHEELER, THOMAS



EXISTING CROSS SECTION
NOT TO SCALE

DUPONT ST. SOUTH - POB STA 400+40 TO STA 404+89
UNIVERSITY AVE. TO CHEVROLET AVE.



PROPOSED SUPERELEVATED CROSS SECTION
NOT TO SCALE

DUPONT ST. SOUTH - POB STA 400+40 TO STA 404+89

- Ⓜ LOCATION OF PROPOSED PAVEMENT MARKINGS
* PROPOSED RATE OF SUPER INDICATED ON PROFILE SHEETS

555 S. Saginaw Street, Suite 201
Flint, MI 48502
810.252.2555
www.wadetrिम.com



CITY OF FLINT
1101 SOUTH SAGINAW STREET
FLINT, MI 48502
DUPONT STREET - SOUTH
TYPICAL SECTIONS - DUPONT SOUTH 1

ISSUED FOR: DATE: BY:
GI PLANS 10/25/18 JUS
FINAL REVIEW 2/25/19 JUS
FINAL PLANS 4/19/19 JUS

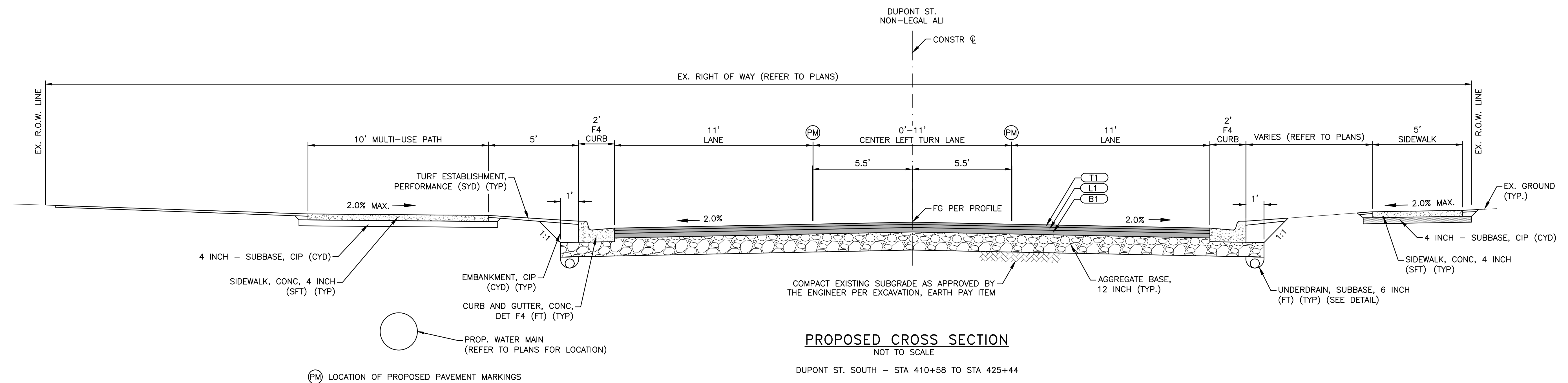
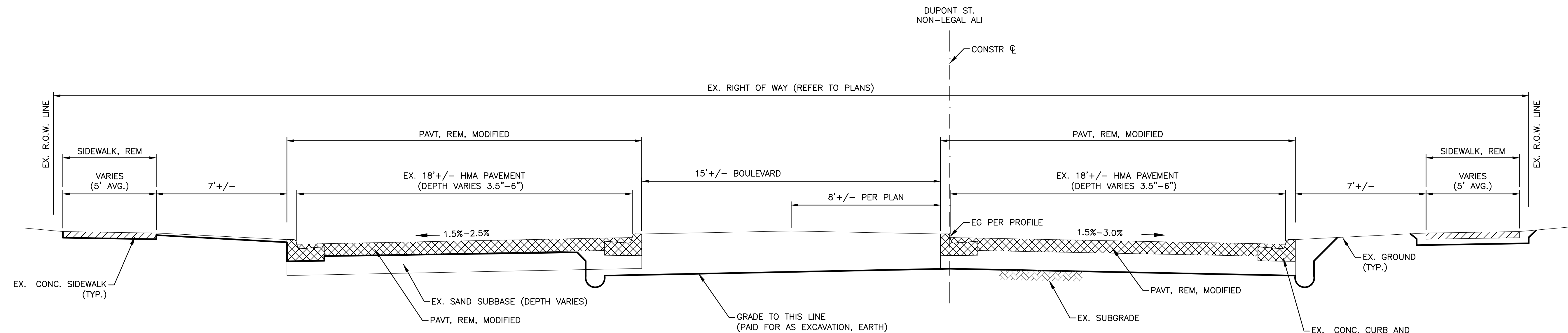
JOB NO.
COF1065.01F

SHEET

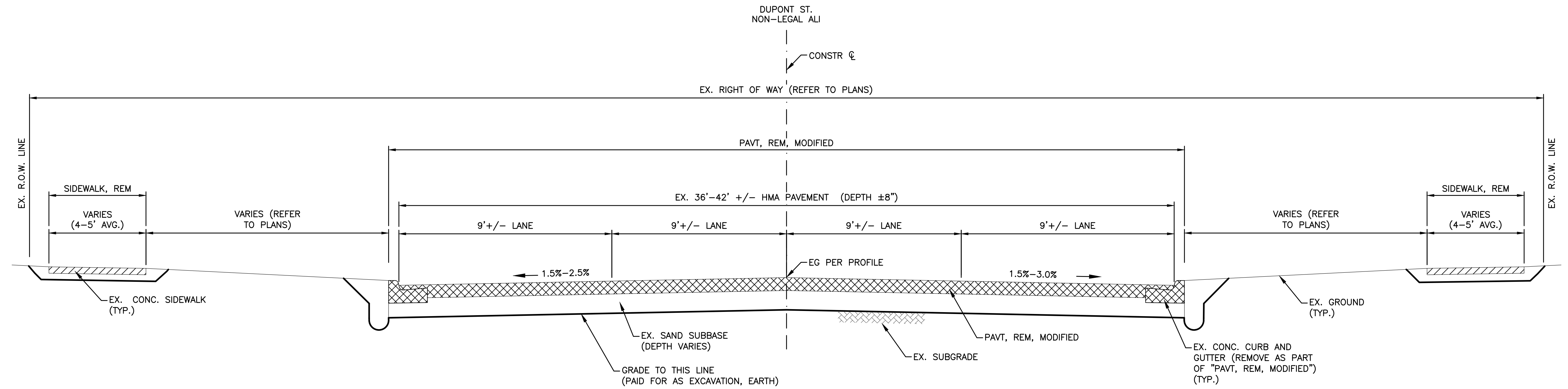
12



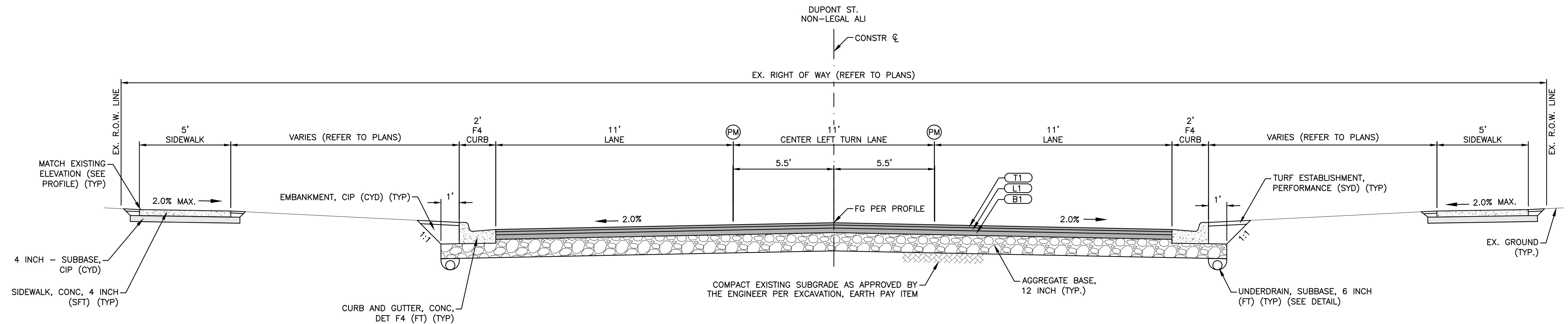
Know what's below.
Call before you dig.



PROJECT MANAGER: Jeremy Schrot
FIELD BOOK INFORMATION:--
C:\PW_WORK\2\00852527\CRP-PLTS-TYPICAL.DWG - TYP SEC 3 - PLOTTED 4/19/2019 11:49 AM BY WHEELER, THOMAS



EXISTING CROSS SECTION
NOT TO SCALE
DUPONT ST. SOUTH - STA 426+00 TO STA 455+40.0
FLUSHING RD. TO CONCORD ST.



PROPOSED CROSS SECTION
NOT TO SCALE

DUPONT ST. SOUTH - STA 427+76 TO STA 428+15
STA 431+59 TO STA 434+16
STA 437+37 TO STA 455+40.0

PROJECT MANAGER: Jeremy Schrot
FIELD BOOK INFORMATION: -
C:\PW_WORK2\00852527\GRP-PLTS-TYPICAL.DWG -- TYP SEC 5 -- PLOTTED 4/18/2019 11:45 AM BY RUGGLES, TIMOTHY

Flint, MI 48502
810.235.2555
www.wadetrin.com



1101 SOUTH SAGINAW STREET
FLINT, MI 48502
DUPONT STREET - SOUTH
TYPICAL SECTIONS - DUPONT SOUTH 5

SUED FOR:	DATE:	BY:
PLANS	10/25/18	JJS
ANAL REVIEW	2/25/19	JJS
ANAL PLANS	4/19/19	JJS

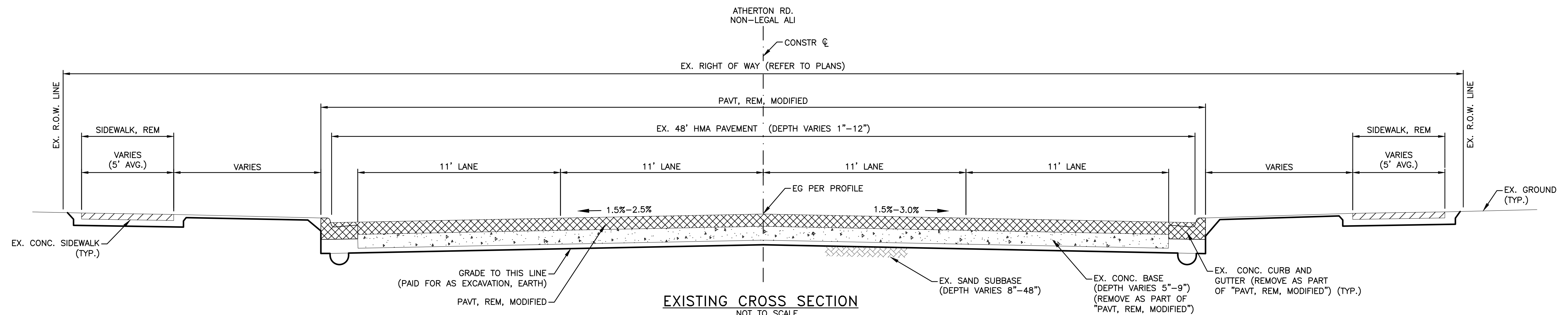
B NO.
COF1065.01F

EET

6



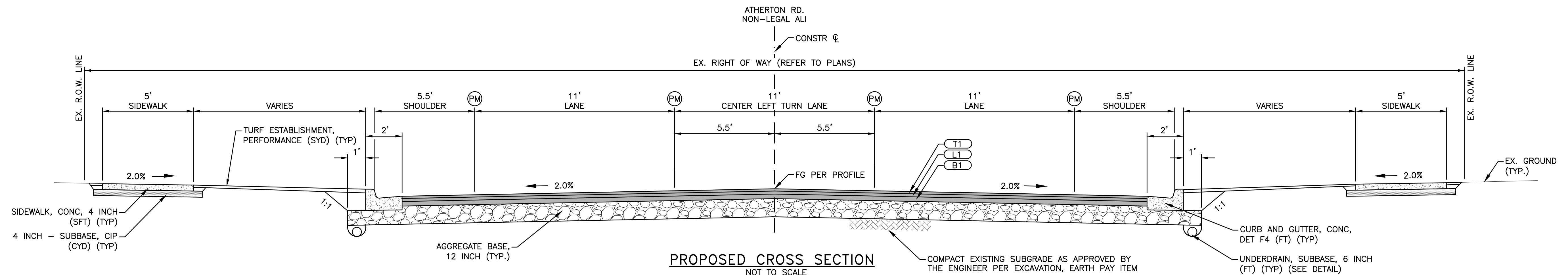
Know what's **below**.
Call before you dig.



EXISTING CROSS SECTION

NOT TO SCALE

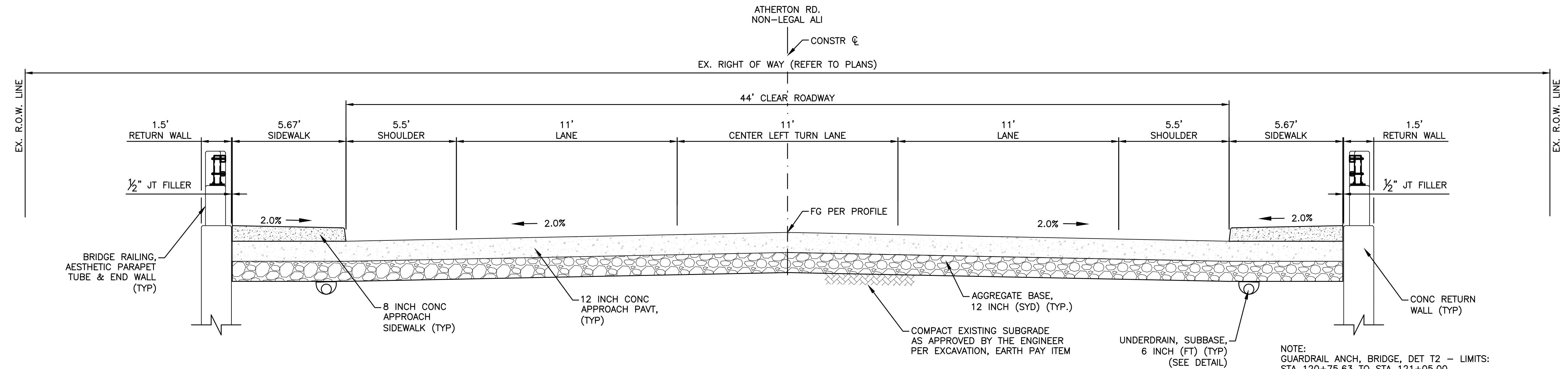
ATHERTON RD. - POB STA 100+58 TO POE STA 259+34
VAN SLYKE RD. TO DORT HWY.



PROPOSED CROSS SECTION

NOT TO SCALE

ATHERTON RD. STA 103+08 — STA 121+00
 ATHERTON RD. STA 121+80 TO STA 177+95
 ATHERTON RD. STA 180+71 TO STA 183+62
 ATHERTON RD. STA 186+35 — STA 190+07
 ATHERTON RD. STA 194+60 — STA 249+50



PROPOSED CROSS SECTION @ BRIDGE APPROACH

NOT TO SCALE

ATHERTON RD. STA 121+00 TO STA 121+20
 ATHERTON ROAD BRIDGE STA 121+20 TO STA 121+60
 ATHERTON RD. STA 121+60 TO STA 121+80 *
 SEE BRIDGE PLANS, SHEETS 235, 237 & 238
 FOR ADD'L GEOMETRIC DATA AT BRIDGE

* AT EAST APPROACH, BOTTOM DECK LONGITUDINAL
EA06 BARS AND 3-ADD'L EA06 BOTTOM BARS
AT EAST END OF EACH BEAM EXTEND INTO APPROACH
PAVEMENT 2 FT PER BRIDGE (SEE SHEETS 248 & 251)

NOTE:
GUARDRAIL ANCH, BRIDGE, DET T2 - LIMITS:
STA 120+75.63 TO STA 121+05.00
ANCHORED TO SOUTHWEST BRIDGE BARRIER END WALL
STA 121+75.00 TO STA 122+04.38
ANCHORED TO NORTHEAST BRIDGE BARRIER END WALL

GUARDRAIL APPROACH TERMINAL, TYPE 2M "MSKT" - LIMITS:
STA 120+16.25 TO STA 120+75.63 AT SOUTHWEST QUADRANT
STA 122+04.38 TO STA 122+63.75 AT NORTHEAST QUADRANT



Know what's **below**.
Call before you dig.



11101 SOUTH SAGINAW STREET
FLINT, MI 48502

ISSUED FOR:	DATE:	BY:
PLANS	10/25/18	JJS
ANNUAL REVIEW	2/25/19	JJS
ANNUAL PLANS	4/19/19	JJS

OB NO.
COF1065.01F

HEET

PROJECT MANAGER: C:\P\WORK\2\08552519\CRP-PLS-ALIGNMENT.DWG - ALGN 1 - PLOTTED 4/18/2019 11:13 AM BY RUGGLES, TIMOTHY

HORIZONTAL CONTROL
NAD83

CONTROL POINT 102

DESCRIPTION: SET 1/2" X 18" LONG REBAR
W/ SPICER TRAVERSE CAP LOCATED +/- 4'
NORTH OF BACK OF CURB OF MR. B'S PARKING
LOT AND +/- 25' WEST OF BACK OF WALK.
NORTHING: 567413.881
EASTING: 13297833.022
ELEVATION: 774.843

CONTROL POINT 103

DESCRIPTION: SET 1/2" X 18" LONG REBAR
W/ SPICER TRAVERSE CAP LOCATED +/- 13'
SOUTH OF BACK OF CURB ON BALTIMORE ST. AND
+/- 18' EAST OF BACK OF CURB ON DUPONT ST.
NORTHING: 568408.935
EASTING: 13297894.233
ELEVATION: 770.461

CONTROL POINT 104

DESCRIPTION: SET 1/2" X 18" LONG REBAR
W/ SPICER TRAVERSE CAP LOCATED +/- 9' EAST
OF BACK OF CURB ON DUPONT ST. AND +/-
450' SOUTH OF CENTERLINE OF MOORE ST.
NORTHING: 566349.943
EASTING: 13297963.665
ELEVATION: 776.037

CONTROL POINT 105

DESCRIPTION: SET 1/2" X 18" LONG REBAR
W/ SPICER TRAVERSE CAP LOCATED +/- 4' WEST
OF BACK OF CURB ON DUPONT ST. AND +/- 70'
SOUTH OF CENTERLINE OF DRIVE TO HOUSE #3821
ON DUPONT ST.
NORTHING: 565324.210
EASTING: 13297908.511
ELEVATION: 778.832

CONTROL POINT 106

DESCRIPTION: SET 1/2" X 18" LONG REBAR
W/ SPICER TRAVERSE CAP LOCATED +/- 10' EAST
OF BACK OF CURB ON DUPONT ST. AND +/- 70'
NORTH OF CENTERLINE OF PASADENA AVE.
NORTHING: 564277.071
EASTING: 13297973.942
ELEVATION: 781.760

VERTICAL CONTROL
NAD88

BENCHMARK 200

DESCRIPTION: FOUND RAILROAD SPIKE IN POWER
POLE
LOCATED IN SOUTHEAST FACE OF POWER POLE AT
THE NORTHEAST CORNER OF BISHOP AND DUPONT
ST.
NORTHING: 568050.275
EASTING: 13297901.600
ELEVATION: 772.401

BENCHMARK 201

DESCRIPTION: SET GEAR SPIKE IN STRAIN POLE
LOCATED IN WEST FACE OF NEW STRAIN POLE IN
THE SOUTHEAST QUADRANT OF DUPONT ST. AND
STEWART ST.
NORTHING: 566986.794
EASTING: 13297971.743
ELEVATION: 774.253

BENCHMARK 202

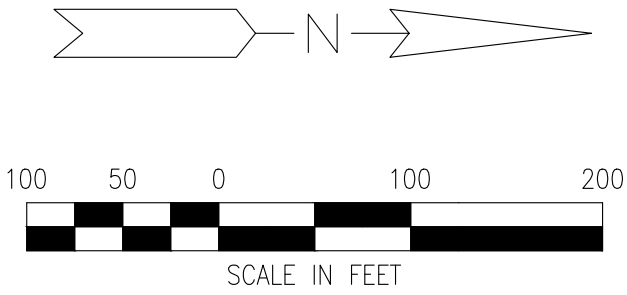
DESCRIPTION: SET GEAR SPIKE IN POWER POLE
LOCATED IN WEST FACE OF POWER POLE ACROSS
FROM HOUSE #4019 ON DUPONT ST.
NORTHING: 566050.393
EASTING: 13297981.970
ELEVATION: 774.569

BENCHMARK 203

DESCRIPTION: SET GEAR SPIKE IN LIGHT POLE
LOCATED IN WEST FACE OF LIGHT POLE EAST SIDE
OF DUPONT ST. AND +/- 15' SOUTH OF THE
EXTENDED CENTERLINE OF SUNNY AVE.
NORTHING: 564940.899
EASTING: 13297972.048
ELEVATION: 779.017

BENCHMARK 204

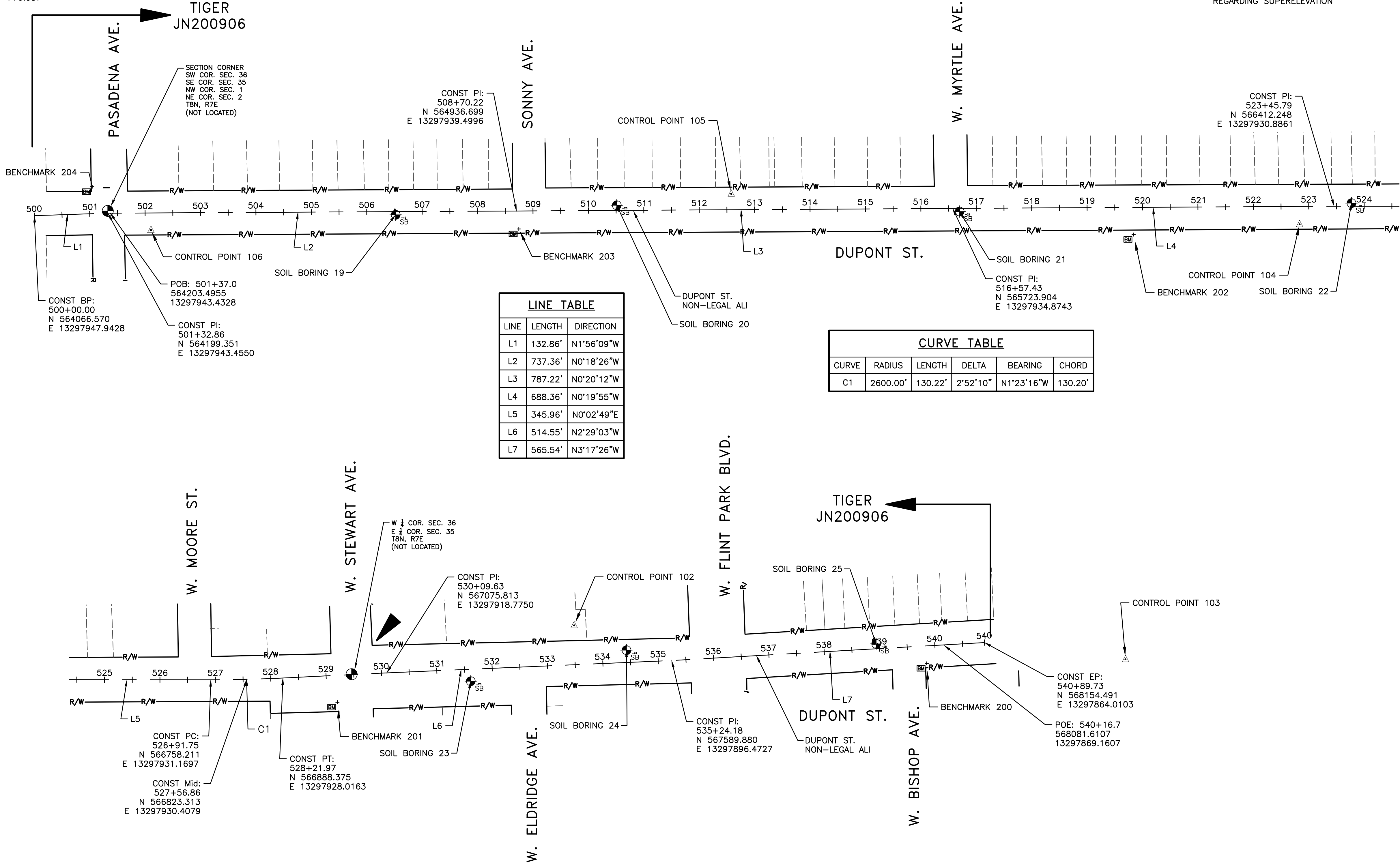
DESCRIPTION: SET GEAR SPIKE IN POWER POLE
LOCATED IN NORTHEAST FACE OF POWER POLE IN
THE SOUTHWEST QUADRANT OF DUPONT AND
PASADENA AVE.
NORTHING: 564171.021
EASTING: 13297895.634
ELEVATION: 782.903



SUPERELEVATION DATA

CURVE NUMBER	DIRECTION	SUPER RATE
C1	LT	2.0%

NOTE: SEE PROFILE TYPE LINES FOR DETAILED INFORMATION
REGARDING SUPERELEVATION



555 S. Saginaw Street, Suite 201
Flint, MI 48502
810.285.2655
www.wadetrims.com



CITY OF FLINT
1101 SOUTH SAGINAW STREET
FLINT, MI 48502
DUPONT STREET - NORTH
ALIGNMENT DN

ISSUED FOR: DATE: BY:
GI PLANS 10/25/18 JUS
FINAL REVIEW 2/25/19 JUS
FINAL PLANS 4/19/19 JUS

JOB NO.
COF1065.01F

SHEET

20



Know what's below.
Call before you dig.

PROJECT MANAGER: Jeremy Schlotz
C:\P\WORK\0855237\0855237-FLS-ALIGNMENT.DWG - ALIGN 1 - PLOTTED 4/18/2019 11:49 AM BY: RUGGLES, TIMOTHY

CONTROL POINT 107
DESCRIPTION: SET 1/2" X 18" LONG REBAR W/ SPICER TRAVERSE CAP
LOCATED +/- 85' WEST OF EXTENDED CENTERLINE OF DUPONT ST. AND +/- 15' SOUTH OF CURB ON UNIVERSITY AVE.
NORTHING: 551748.819
EASTING: 13297636.637
ELEVATION: 715.627

CONTROL POINT 108
DESCRIPTION: SET 1/2" X 18" LONG REBAR W/ SPICER TRAVERSE CAP
LOCATED +/- 4' WEST OF BACK OF CURB ON DUPONT ST. AND +/- 30' SOUTH OF MONTEITH ST.
NORTHING: 552471.678
EASTING: 13297630.416
ELEVATION: 722.755

CONTROL POINT 109
DESCRIPTION: SET 1/2" X 18" LONG REBAR W/ SPICER TRAVERSE CAP
LOCATED +/- 2' EAST OF BACK OF CURB ON DUPONT ST. AND +/- 30' NORTH OF CENTERLINE OF CADILLAC ST.
NORTHING: 553464.139
EASTING: 13297908.258
ELEVATION: 766.674

CONTROL POINT 110
DESCRIPTION: SET 1/2" X 18" LONG REBAR W/ SPICER TRAVERSE CAP
LOCATED +/- 27' WEST OF BACK OF CURB ON DUPONT ST. AND +/- 27' NORTH OF BACK OF CURB ON FLUSHING RD.
NORTHING: 554411.825
EASTING: 13298057.407
ELEVATION: 746.192

CONTROL POINT 111
DESCRIPTION: SET 1/2" X 18" LONG REBAR W/ SPICER TRAVERSE CAP
LOCATED +/- 9' EAST OF BACK OF CURB ON DUPONT ST. AND +/- 35' SOUTH OF CENTERLINE OF STEVENSON ST.
NORTHING: 555353.458
EASTING: 13298217.123
ELEVATION: 749.591

CONTROL POINT 112
DESCRIPTION: SET 1/2" X 18" LONG REBAR W/ SPICER TRAVERSE CAP
LOCATED +/- 6' WEST OF BACK OF CURB ON DUPONT ST. AND +/- 8' SOUTH OF BACK OF CURB ON MACKIN RD.
NORTHING: 556251.541
EASTING: 13298140.273
ELEVATION: 768.582

CONTROL POINT 113
DESCRIPTION: SET 1/2" X 18" LONG REBAR W/ SPICER TRAVERSE CAP
LOCATED +/- 4' EAST OF BACK OF CURB ON DUPONT ST. AND ON EXTENDED CENTERLINE OF MALLERY ST.
NORTHING: 557406.427
EASTING: 13298158.173
ELEVATION: 763.885

BENCHMARK 205
DESCRIPTION: FOUND RAILROAD SPIKE IN LIGHT POLE
LOCATED IN EAST FACE OF LIGHT POLE IN FRONT OF HOUSE #662 ON DUPONT ST.
NORTHING: 552115.247
EASTING: 13297561.354
ELEVATION: 720.943

BENCHMARK 206
DESCRIPTION: CHISELED SQUARE ON CONCRETE BASE
LOCATED ON THE WESTERLY SIDE OF FIRST CONCRETE LIGHT POLE BASE SOUTH OF CHEVROLET AVE.
NORTHING: 552883.666
EASTING: 13297784.526
ELEVATION: 741.844

BENCHMARK 207
DESCRIPTION: SET GEAR SPIKE IN POWER POLE
LOCATED IN WEST FACE OF POWER POLE IN FRONT OF HOUSE #1000 ON DUPONT ST.
NORTHING: 553860.630
EASTING: 13298000.576
ELEVATION: 757.044

BENCHMARK 208
DESCRIPTION: CHISELED SQUARE ON CONCRETE STEP
LOCATED ON TOP OF THE NORTHERLY CORNER OF THE SECOND STEP TO PHI-DELTA-THETA
NORTHING: 554650.732
EASTING: 13298277.074
ELEVATION: 746.545

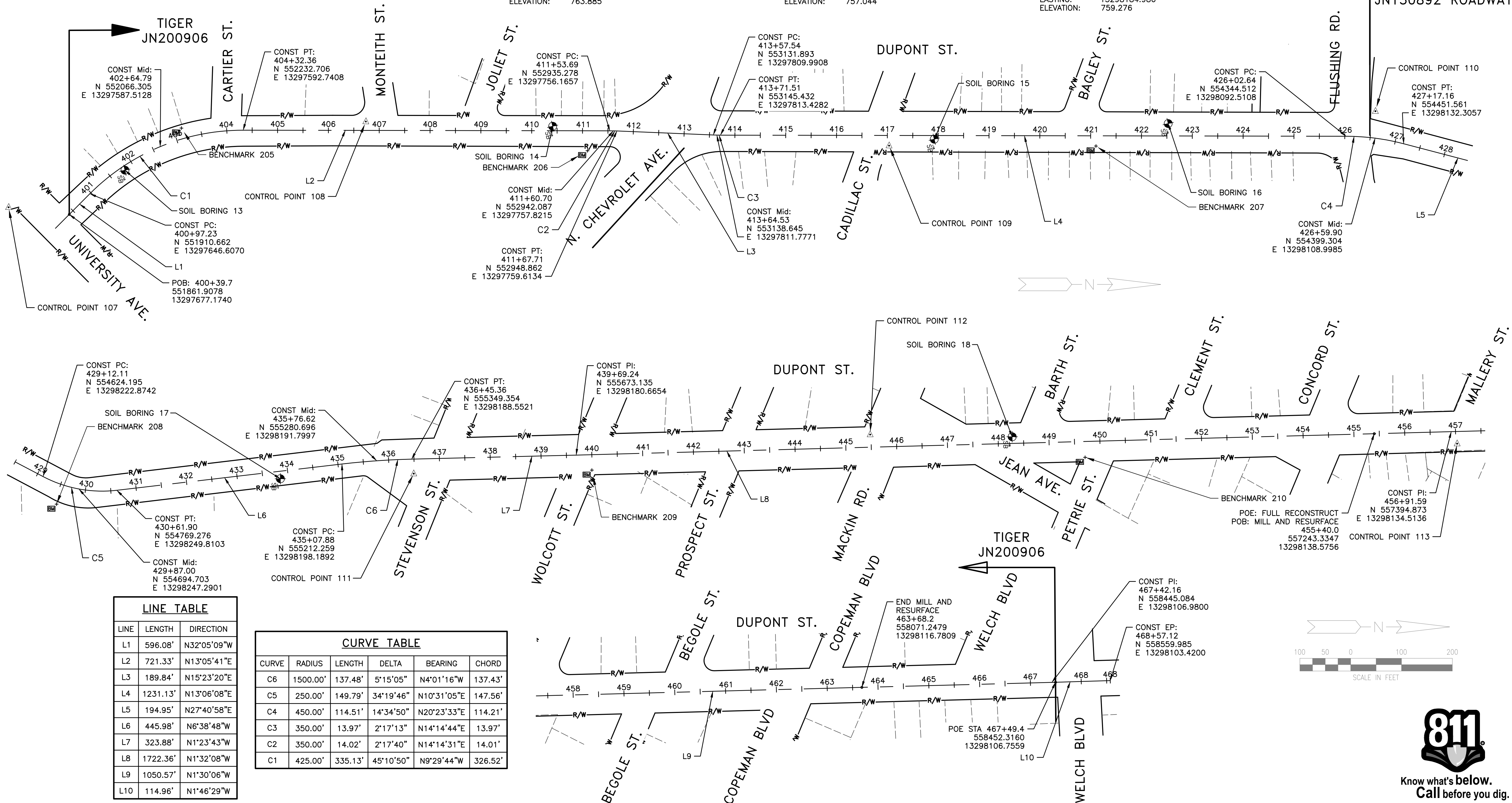
BENCHMARK 209
DESCRIPTION: SET GEAR SPIKE IN POWER POLE
LOCATED WEST FACE OF POWER POLE AT NORTHEAST QUADRANT OF DUPONT ST. AND WOLCOTT ST.
NORTHING: 555703.982
EASTING: 13298210.141
ELEVATION: 750.547

BENCHMARK 210
DESCRIPTION: FOUND RAILROAD SPIKE IN POWER POLE
LOCATED IN WEST FACE OF POWER POLE IN SOUTHEAST QUADRANT OF DUPONT ST. AND PETRIE ST.
NORTHING: 556674.375
EASTING: 13298184.986
ELEVATION: 759.276

SUPERELEVATION DATA		
CURVE NUMBER	DIRECTION	SUPER RATE
C1	RT	3.3%
C4	RT	2.0%
C2	LT	5.6%
C3	RT	2.0%

NOTE: SEE PROFILE TYPE LINES FOR DETAILED INFORMATION REGARDING SUPERELEVATION

TIGER JN200906
TIGER JN200906
WATER MAIN & JN130892 ROADWAY



LINE TABLE		
LINE	LENGTH	DIRECTION
L1	596.08'	N32°05'09"W
L2	721.33'	N13°05'41"E
L3	189.84'	N15°23'20"E
L4	1231.13'	N13°06'08"E
L5	194.95'	N27°40'58"E
L6	445.98'	N6°38'48"W
L7	323.88'	N1°23'43"W
L8	1722.36'	N1°32'08"W
L9	1050.57'	N1°30'06"W
L10	114.96'	N1°46'29"W

CURVE TABLE					
CURVE	RADIUS	LENGTH	DELTA	BEARING	CHORD
C6	1500.00'	137.48'	5°15'05"	N4°01'16"W	137.43'
C5	250.00'	149.79'	34°19'46"	N10°31'05"E	147.56'
C4	450.00'	114.51'	14°34'50"	N20°23'33"E	114.21'
C3	350.00'	13.97'	2°17'13"	N14°14'44"E	13.97'
C2	350.00'	14.02'	2°17'40"	N14°14'31"E	14.01'
C1	425.00'	335.13'	45°10'50"	N9°29'44"W	326.52'

CITY OF FLINT
1101 SOUTH SAGINAW STREET
FLINT, MI 48502
DUPONT STREET - SOUTH
ALIGNMENT DS

ISSUED FOR: DATE: BY:
GI PLANS 10/25/18 JUS
FINAL REVIEW 2/25/19 JUS
FINAL PLANS 4/19/19 JUS

JOB NO.
COF1065.01F

SHEET

21



Know what's below.
Call before you dig.

555 S. Saginaw Street, Suite 201
Flint, MI 48502
810.283.2655
www.wadetrims.com



© Wade Trim Group, Inc.

PROJECT MANAGER: Jeremy Scholtz
C:\P\WORK\2018\52518\01-ATH-PTS-ALIGNMENT.DWG - ALGN 1 - PLOTTED 4/18/2019 11:48 AM BY RUGGLES, TIMOTHY



Know what's below.
Call before you dig.

HORIZONTAL CONTROL

NAD83

CONTROL POINT 115

DESCRIPTION: SET 1/2" X 18" LONG REBAR
W/ SPICER TRAVERSE CAP
LOCATED +/- 3' WEST OF BACK OF CURB ON VAN
SLYKE RD. AND +/- 8' NORTH OF BACK OF CURB
ON ATHERTON RD.
NORTHING: 543088.656
EASTING: 13298131.101
ELEVATION: 745.879

CONTROL POINT 116

DESCRIPTION: SET 1/2" X 18" LONG REBAR
W/ SPICER TRAVERSE CAP
LOCATED +/- 120' WEST OF CENTERLINE OF
BALFOUR CT. AND +/- 4' SOUTH OF BACK OF CURB
ON ATHERTON RD.
NORTHING: 543039.917
EASTING: 13299190.736
ELEVATION: 754.236

CONTROL POINT 117

DESCRIPTION: SET 1/2" X 18" LONG REBAR
W/ SPICER TRAVERSE CAP
LOCATED +/- 125' WEST OF CENTERLINE OF
CARMAN CREEK AND +/- 4' NORTH OF BACK OF
CURB ON ATHERTON RD.
NORTHING: 543106.570
EASTING: 13300179.093
ELEVATION: 742.300

CONTROL POINT 118

DESCRIPTION: SET 1/2" X 18" LONG REBAR
W/ SPICER TRAVERSE CAP
LOCATED +/- 15' EAST OF CENTERLINE OF DRIVE
FOR WESTGATE PLAZA AND +/- 8' SOUTH OF BACK
OF CURB ON ATHERTON RD.
NORTHING: 543063.440
EASTING: 13301307.409
ELEVATION: 757.029

CONTROL POINT 119

DESCRIPTION: SET 1/2" X 18" LONG REBAR
W/ SPICER TRAVERSE CAP
LOCATED +/- 10' WEST OF CENTERLINE OF DRIVE
FOR HOUSE #1306 ON ATHERTON RD. AND +/- 1'
NORTH OF BACK OF CURB ON ATHERTON RD.
NORTHING: 543136.998
EASTING: 13302365.851
ELEVATION: 763.198

CONTROL POINT 120

DESCRIPTION: SET 1/2" X 18" LONG REBAR
W/ SPICER TRAVERSE CAP
LOCATED +/- 3' NORTH OF WALK ON ATHERTON
RD AND +/- 33' EAST OF CENTERLINE OF DRIVE
FOR HOUSE #3822
NORTHING: 543106.925
EASTING: 13303401.692
ELEVATION: 763.198

CONTROL POINT 121

DESCRIPTION: SET 1/2" X 18" LONG REBAR
W/ SPICER TRAVERSE CAP
LOCATED +/- 3' NORTH OF WALK ON ATHERTON
AND +/- 15' EAST OF BACK OF CURB ON FENTON
RD.
NORTHING: 543275.151
EASTING: 13303620.260
ELEVATION: 765.140

BENCHMARK 211

DESCRIPTION: SET HEAR SPIKE IN POWER POLE
LOCATED IN NORTH FACE OF POWER POLE AT
SOUTHWEST CORNER OF PEENBROOK LN AND
ATHERTON RD.
NORTHING: 543030.650
EASTING: 13298671.97
ELEVATION: 751.648

BENCHMARK 212

DESCRIPTION: SET HEAR SPIKE IN LIGHT POLE
LOCATED IN NORTH FACE OF LIGHT POLE AT
SOUTHWEST CORNER OF GREENBROOK AND
ATHERTON RD.
NORTHING: 543044.424
EASTING: 13299683.32
ELEVATION: 752.205

BENCHMARK 213

DESCRIPTION: CHISELED SQUARE IN WALK
LOCATED IN NORTHWEST CORNER OF CONCRETE
WALK FOR MTA BUS STOP IN SOUTHWEST
QUADRANT OF ATHERTON AND HAMMERBERG RD.
NORTHING: 543057.555
EASTING: 1313300776.85
ELEVATION: 754.765

VERTICAL CONTROL

NAD88

BENCHMARK 214

DESCRIPTION: SET HEAR SPIKE IN POWER POLE
LOCATED IN NORTH FACE OF POWER POLE ACROSS
FROM HOUSE #1418 ATHERTON RD.
NORTHING: 543079.420
EASTING: 13301821.53
ELEVATION: 760.897

BENCHMARK 215

DESCRIPTION: SET GEAR SPIKE IN POWER POLE
LOCATED IN WEST FACE OF POWER POLE AT
NORTHEAST QUADRANT OF DUPONT AND WOLCOTT
ST.
NORTHING: 543142.161
EASTING: 13302702.83
ELEVATION: 760.500

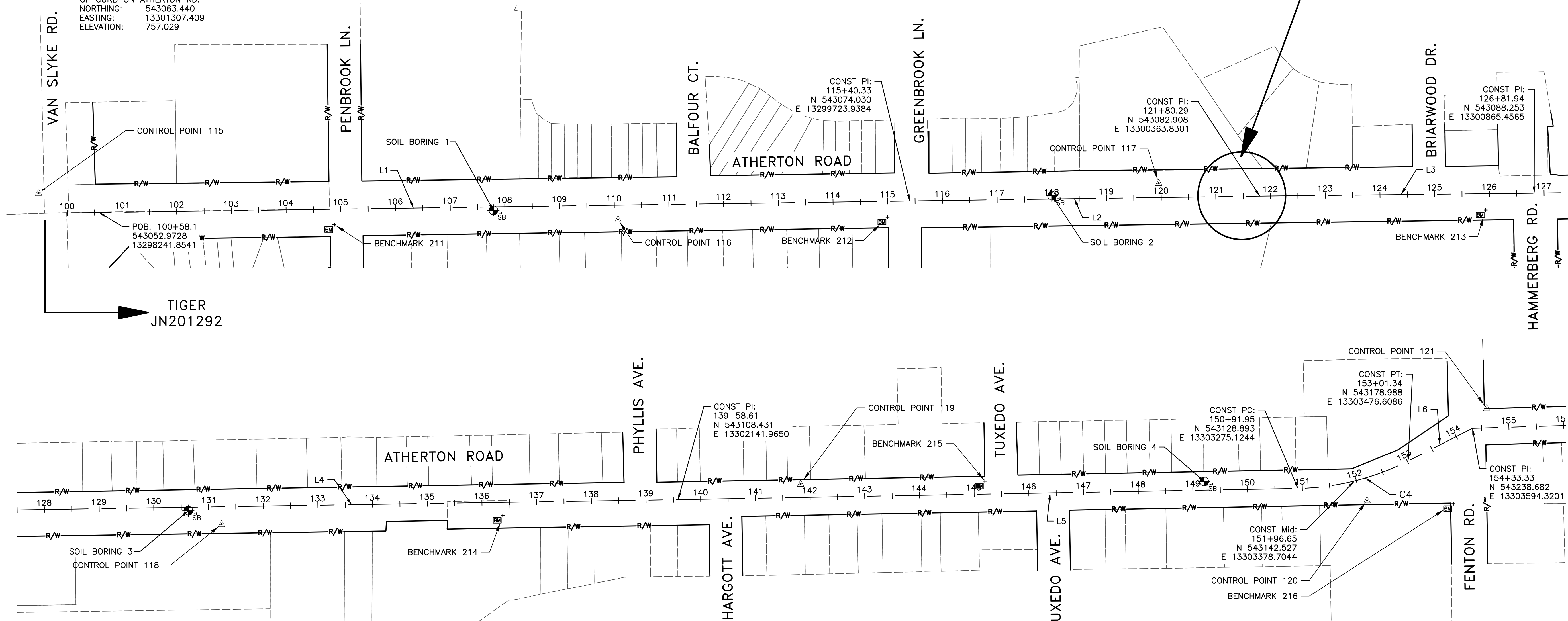
BENCHMARK 216

DESCRIPTION: SET GEAR SPIKE IN TELEPHONE POLE
LOCATED IN NORTH FACE OF TELEPHONE POLE IN
SOUTHWEST QUADRANT OF FENTON RD AND
ATHERTON RD.
NORTHING: 543100.74
EASTING: 13303559.4
ELEVATION: 765.642

LINE TABLE		
LINE	LENGTH	DIRECTION
L1	1540.33'	N89°11'10"E
L2	639.95'	N89°12'18"E
L3	501.65'	N89°23'22"E
L4	1276.67'	N89°05'40"E
L5	1133.34'	N88°57'56"E
L6	131.98'	N63°06'34"E



CARMAN CREEK
ATHERTON ROAD BRIDGE
SEE PLAN SHEETS 235-254



CURVE TABLE

CURVE	RADIUS	LENGTH	DELTA	BEARING	CHORD
C4	464.00'	209.39'	25°51'22"	N76°02'15"E	207.62'

CITY OF FLINT
1101 SOUTH SAGINAW STREET
FLINT, MI 48502
ATHERTON ROAD
ALIGNMENT ATH

ISSUED FOR: DATE: BY:
GI PLANS 10/25/18 JUS
FINAL REVIEW 2/25/19 JUS
FINAL PLANS 4/19/19 JUS

JOB NO.
COF1065.01F

SHEET

22

555 S. Saginaw Street, Suite 201
Flint, MI 48502
810.285.2555
www.wadetrim.com



© Wade Trim, Inc.

PROJECT MANAGER: Jeremy Scholtz
C:\P\WORK\2018\52518\01-FLTS-ALIGNMENT.DWG - ALGN 2 - PLOTTED 4/18/2019 11:48 AM BY: RUGGLES, TIMOTHY



Know what's below.
Call before you dig.

HORIZONTAL CONTROL
NAD83

CONTROL POINT 122
DESCRIPTION: SET 1/2" X 18" LONG REBAR
W/ SPICER TRAVERSE CAP
LOCATED ON SOUTH SIDE OF ATHERTON RD. +/- 2'
SOUTH OF BACK OF CURB OPPOSITE HOUSE #828
NORTHING: 543244.482
EASTING: 13304597.907
ELEVATION: 767.319

CONTROL POINT 123
DESCRIPTION: SET 1/2" X 18" LONG REBAR
W/ SPICER TRAVERSE CAP
LOCATED ON NORTH SIDE OF ATHERTON RD. AT
HOUSE #654 +/- 3' NORTH OF BACK OF CURB
AND +/- 45' EAST OF CENTERLINE OF EUSTON ST.
NORTHING: 543325.528
EASTING: 13305582.673
ELEVATION: 768.662

CONTROL POINT 124
DESCRIPTION: SET 1/2" X 18" LONG REBAR
W/ SPICER TRAVERSE CAP
LOCATED IN THE SOUTHEAST QUADRANT OF
SOUTHBOUND GRAND TRAVERSE AND ATHERTON RD.
+/- 1' SOUTH OF EDGE OF WALK AND +/- 36'
EAST OF CENTERLINE OF SOUTHBOUND GRAND
TRAVERSE
NORTHING: 543289.146
EASTING: 13306246.057
ELEVATION: 768.538

CONTROL POINT 125
DESCRIPTION: SET 1/2" X 18" LONG REBAR
W/ SPICER TRAVERSE CAP
LOCATED IN SOUTHWEST QUADRANT OF SAGINAW ST
AND ATHERTON RD. +/- 2' SOUTH OF CURB ON
ATHERTON AND +/- 33' WEST OF SAGINAW ST
EXTENDED CURB.
NORTHING: 543334.592
EASTING: 13308056.494
ELEVATION: 762.033

CONTROL POINT 126
DESCRIPTION: SET 1/2" X 18" LONG REBAR
W/ SPICER TRAVERSE CAP
LOCATED ON NORTH SIDE OF ATHERTON RD +/- 2'
NORTH OF CURB AND +/- 15' EAST OF EAST FACE
OF FIRE STATION #8 EXTENDED.
NORTHING: 543419.073
EASTING: 13309212.818
ELEVATION: 751.753

BENCHMARK 217
DESCRIPTION: SET GEAR SPIKE IN POWER POLE
LOCATED IN NORTH FACE OF POWER POLE NEAR
THE NORTHEAST PROPERTY CORNER OF HOUSE
#925.
NORTHING: 543229.964
EASTING: 13304106.200
ELEVATION: 766.419

BENCHMARK 218
DESCRIPTION: FOUND RAILROAD SPIKE IN POWER
POLE
LOCATED IN WEST FACE OF POWER POLE IN
SOUTHEAST QUADRANT OF DUPONT ST AND PETRIE
ST.
NORTHING: 543244.114
EASTING: 13304859.700
ELEVATION: 768.549

BENCHMARK 219
DESCRIPTION: SET GEAR SPIKE IN LIGHT POLE
LOCATED IN SOUTH FACE OF LIGHT POLE ON
NORTH SIDE OF ATHERTON RD AT HOUSE #622
NORTHING: 543340.664
EASTING: 13305927.400
ELEVATION: 770.859

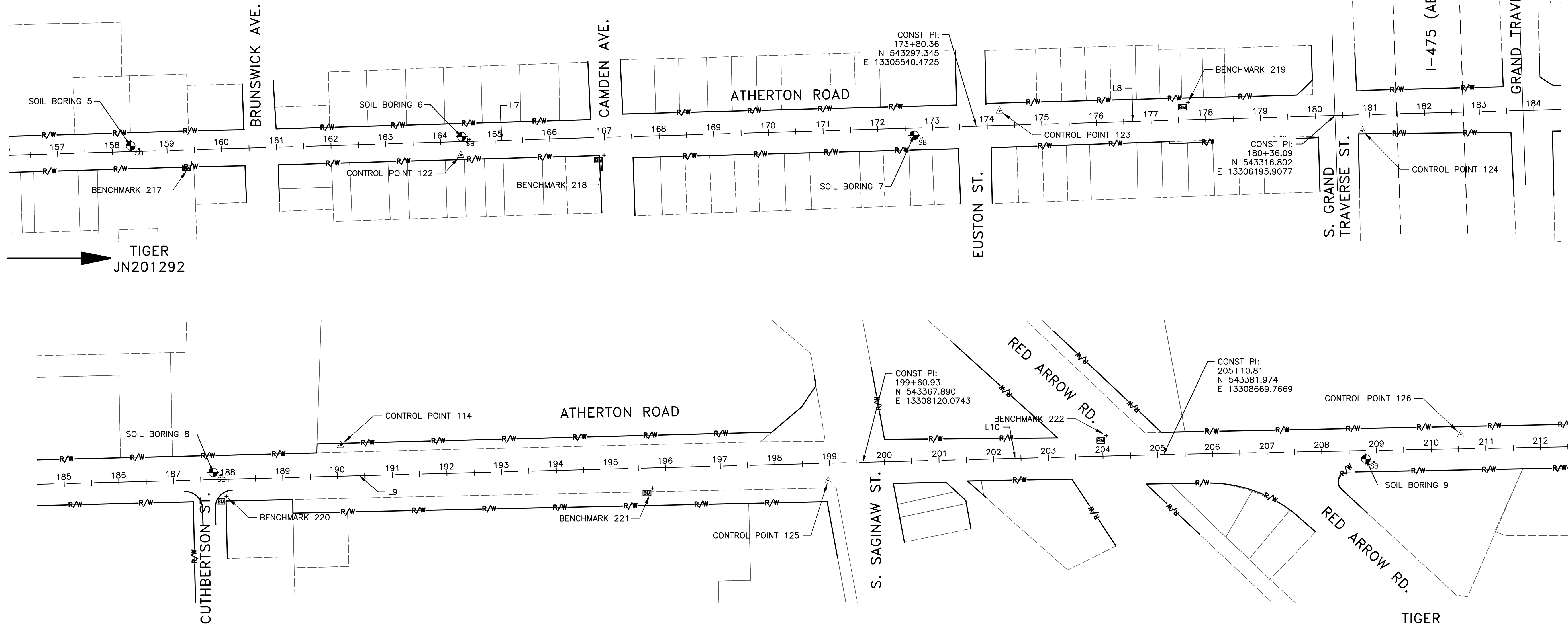
VERTICAL CONTROL
NAD88

BENCHMARK 220
DESCRIPTION: SET GEAR SPIKE IN POWER POLE
LOCATED IN NORTH FACE OF POWER POLE IN THE
SOUTHEAST QUADRANT OF CUTHBERTSON AND
ATHERTON RD.
NORTHING: 543305.288
EASTING: 13306956.680
ELEVATION: 762.351

BENCHMARK 221
DESCRIPTION: SET GEAR SPIKE IN POWER POLE
LOCATED IN NORTH FACE OF POWER POLE, SOUTH
SIDE OF ATHERTON, ±380' WEST OF SAGINAW ST.
NORTHING: 543320.552
EASTING: 13307735.47
ELEVATION: 759.179

BENCHMARK 222
DESCRIPTION: SET GEAR SPIKE IN LIGHT POLE
LOCATED IN SOUTH FACE OF LIGHT POLE IN THE
NORTHWEST QUADRANT OF ATHERTON AND RED
ARROW RD.
NORTHING: 543416.913
EASTING: 13308565.03
ELEVATION: 763.574

LINE TABLE		
LINE	LENGTH	DIRECTION
L7	1947.04'	N88°16'24"E
L8	655.72'	N88°17'59"E
L9	1924.84'	N88°28'45"E
L10	549.87'	N88°31'57"E



TIGER
JN201292
CONTINUED

CITY OF FLINT
1101 SOUTH SAGINAW STREET
FLINT, MI 48502
ATHERTON ROAD
ALIGNMENT ATH 2

ISSUED FOR: DATE: BY:
GI PLANS 10/25/18 JUS
FINAL REVIEW 2/25/19 JUS
FINAL PLANS 4/19/19 JUS

JOB NO.
COF1065.01F

SHEET

23

555 S. Saginaw Street, Suite 201
Flint, MI 48502
810.282.2555
www.wadetrim.com



© Wade Trim Group, Inc.

PROJECT MANAGER: Jeremy Scholtz
C:\P\WORK\2018\52518\01-PLANS-ALIGNMENT.DWG - ALGN 3 - PLOTTED 4/18/2019 11:48 AM BY: RUGGLES, TIMOTHY



Know what's below.
Call before you dig.

LINE TABLE		
LINE	LENGTH	DIRECTION
L11	2274.51'	N88°52'43"E
L12	1174.98'	N88°50'41"E
L13	849.99'	N88°46'56"E
L14	274.96'	N87°53'51"E
L15	949.92'	N88°50'48"E

HORIZONTAL CONTROL
NAD83

CONTROL POINT 127
DESCRIPTION: SET 1/2" X 18" LONG REBAR
W/ SPICER TRAVERSE CAP
LOCATED ON LINE WITH WEST FACE OF HOUSE #372
ON THE SOUTH SIDE OF ATHERTON +/- 6' SOUTH
OF CURB.
NORTHING: 543381.083
EASTING: 13310081.431
ELEVATION: 773.387

CONTROL POINT 128
DESCRIPTION: SET 1/2" X 18" LONG REBAR
W/ SPICER TRAVERSE CAP
LOCATED AT HOUSE #501 +/- 90' EAST OF
CENTERLINE OF CIRCLE DR. AND +/- 2' NORTH OF
CURB.
NORTHING: 552471.678
EASTING: 13297630.416
ELEVATION: 722.755

CONTROL POINT 129
DESCRIPTION: SET 1/2" X 18" LONG REBAR
W/ SPICER TRAVERSE CAP
LOCATED SOUTHWEST QUADRANT OF ATHERTON AND
OGEMA AVE. +/- 48' WEST OF CENTERLINE OF
OGEMA AND +/- 3' SOUTH OF CURB OF
ATHERTON.
NORTHING: 543423.711
EASTING: 13312071.946
ELEVATION: 779.484

CONTROL POINT 130
DESCRIPTION: SET 1/2" X 18" LONG REBAR
W/ SPICER TRAVERSE CAP
LOCATED IN SOUTHWEST QUADRANT OF ATHERTON
AND CHEROKEE AVE. +/- 5' NORTH OF CURB AND
+/- 40' EAST OF CENTERLINE OF CHEROKEE AVE.
NORTHING: 543497.130
EASTING: 13313015.465
ELEVATION: 782.772

CONTROL POINT 131
DESCRIPTION: SET 1/2" X 18" LONG REBAR
W/ SPICER TRAVERSE CAP
LOCATED +/- 9' WEST OF APPARENT PROPERTY
LINE WITH HOUSES #1320 AND #1330, +/- 7'
SOUTH OF EDGE OF WALK.
NORTHING: 543442.270
EASTING: 13313969.827
ELEVATION: 772.912

VERTICAL CONTROL
NAD88

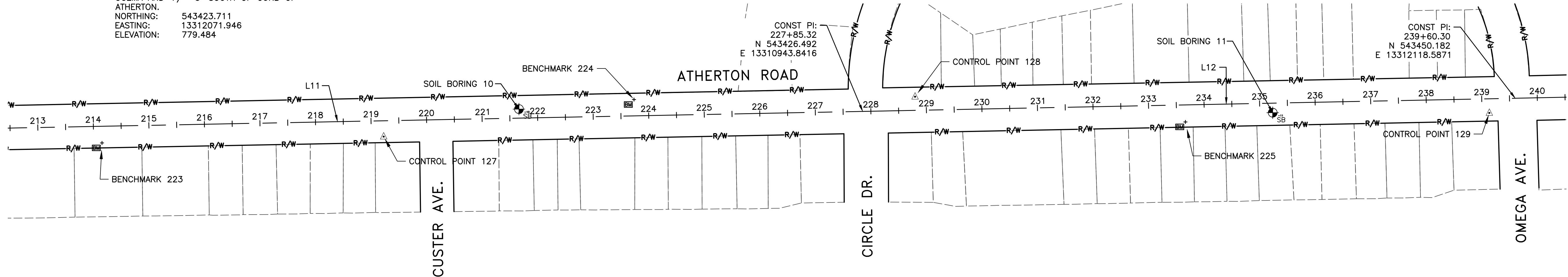
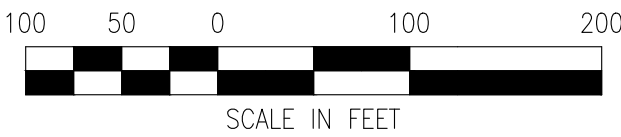
BENCHMARK 223
DESCRIPTION: SET GEAR SPIKE IN LIGHT POLE
LOCATED IN NORTH FACE OF LIGHT POLE, SOUTH
SIDE OF ATHERTON, ±100' WEST OF HOUSE #330
NORTHING: 543369.639
EASTING: 13309574.43
ELEVATION: 765.697

BENCHMARK 224
DESCRIPTION: SET GEAR SPIKE IN POWER POLE
LOCATED IN SOUTH FACE OF POWER POLE, NORTH
SIDE OF ATHERTON OPPOSITE OF HOUSE #438
NORTHING: 543447.829
EASTING: 13310532.17
ELEVATION: 772.030

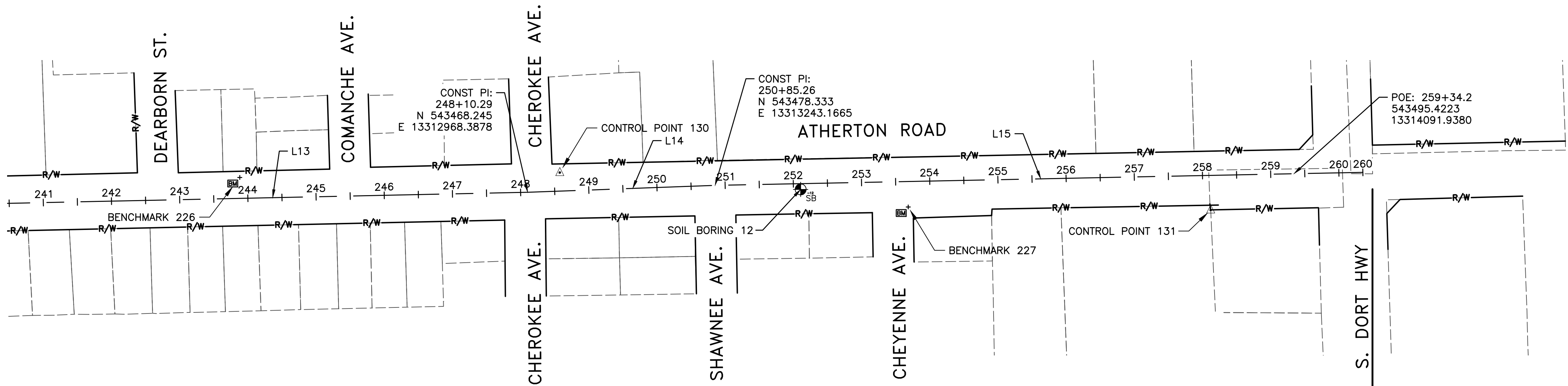
BENCHMARK 225
DESCRIPTION: SET GEAR SPIKE IN LIGHT POLE
LOCATED IN NORTH FACE OF LIGHT POLE, SOUTH
SIDE OF ATHERTON AT HOUSE #552
NORTHING: 543407.506
EASTING: 13311524.85
ELEVATION: 780.037

BENCHMARK 226
DESCRIPTION: SET GEAR SPIKE IN LIGHT POLE
LOCATED IN SOUTH FACE OF LIGHT POLE, NORTH
SIDE OF ATHERTON OPPOSITE OF HOUSE #808
NORTHING: 543489.966
EASTING: 13312546.30
ELEVATION: 781.343

BENCHMARK 227
DESCRIPTION: FOUND RAILROAD SPIKE IN LIGHT
POLE. LOCATED IN SOUTH FACE OF LIGHT POLE IN
THE SOUTHEAST QUADRANT OF CHEYENNE AND
ATHERTON RD.
NORTHING: 543446.726
EASTING: 13313526.39
ELEVATION: 776.956



TIGER
JN201292



TIGER
JN201292

CITY OF FLINT
1101 SOUTH SAGINAW STREET
FLINT, MI 48502
ATHERTON ROAD
ALIGNMENT ATH 3

ISSUED FOR: DATE: BY:
GI PLANS 10/25/18 JUS
FINAL REVIEW 2/25/19 JUS
FINAL PLANS 4/19/19 JUS

JOB NO.
COF1065.01F

SHEET

24

© Wade Trim & Associates, Inc.

555 S. Saginaw Street, Suite 201
Flint, MI 48502
810.282.2555
www.wadetrिम.com

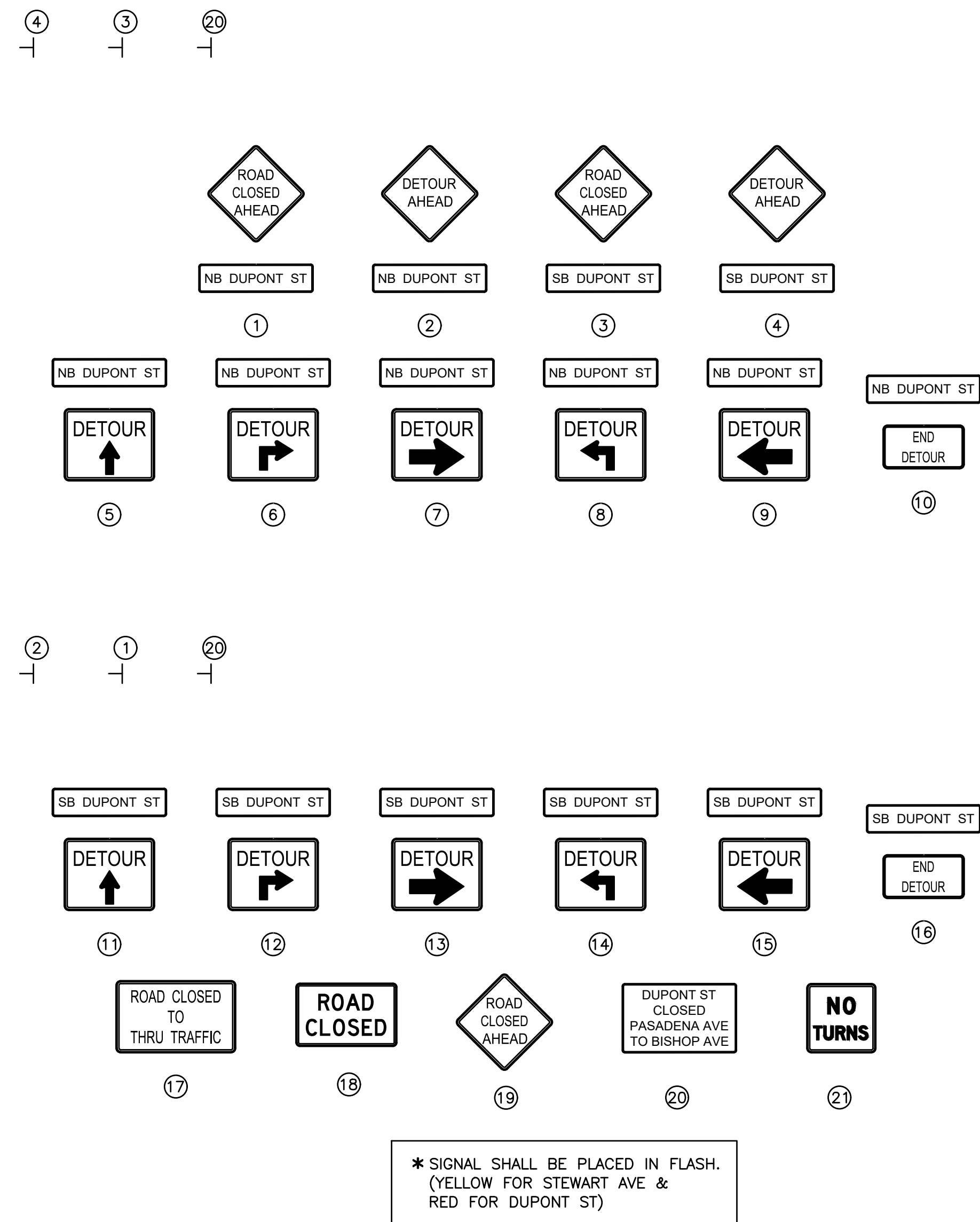
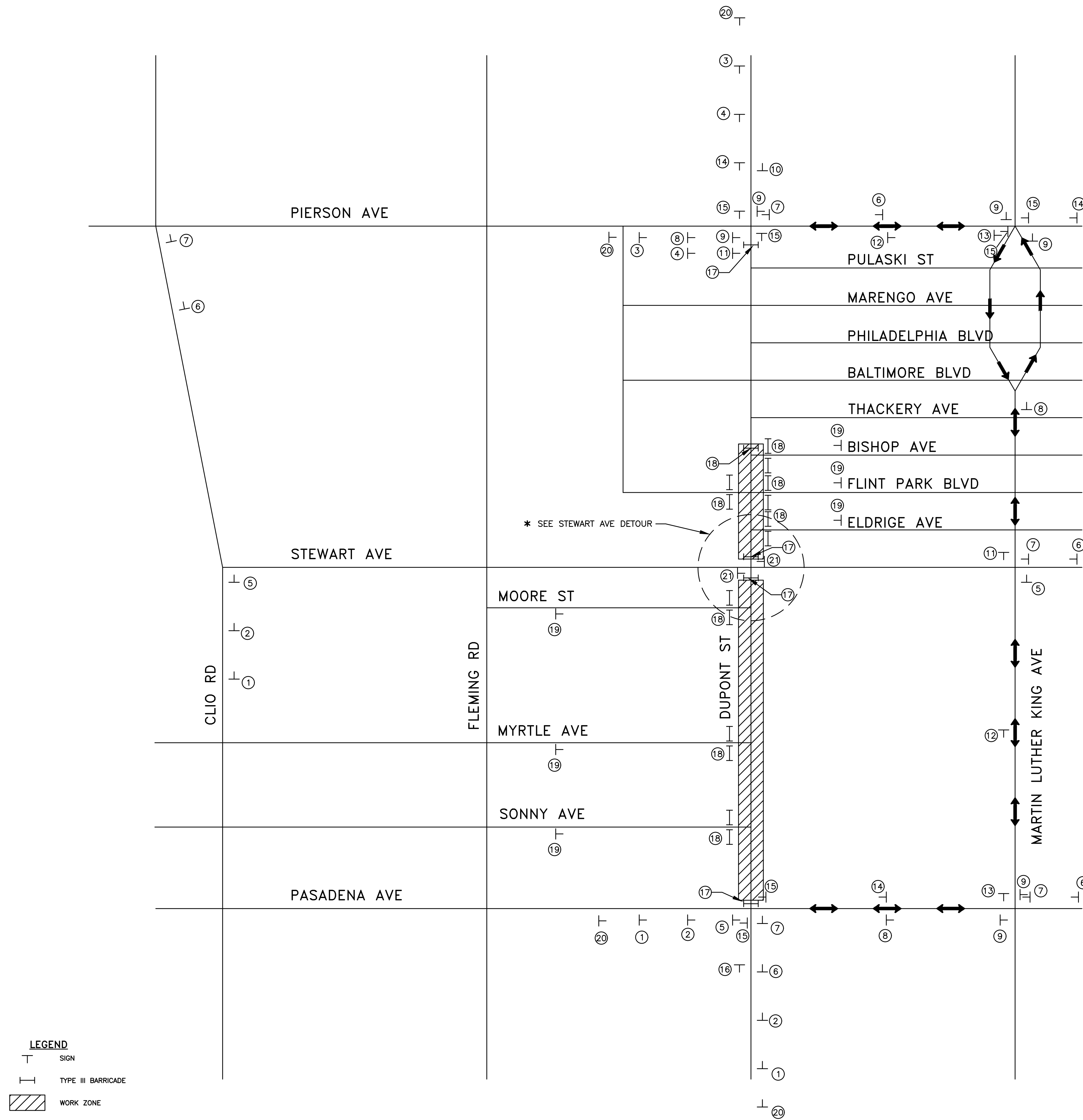


DESCRIPTION

DATE

REV#

BY



Know what's **below**.
Call before you dig.

[illegible]

555 S. Saginaw Street, Suite 201
Flint, MI 48502
810.235.2555
www.wadefirm.com



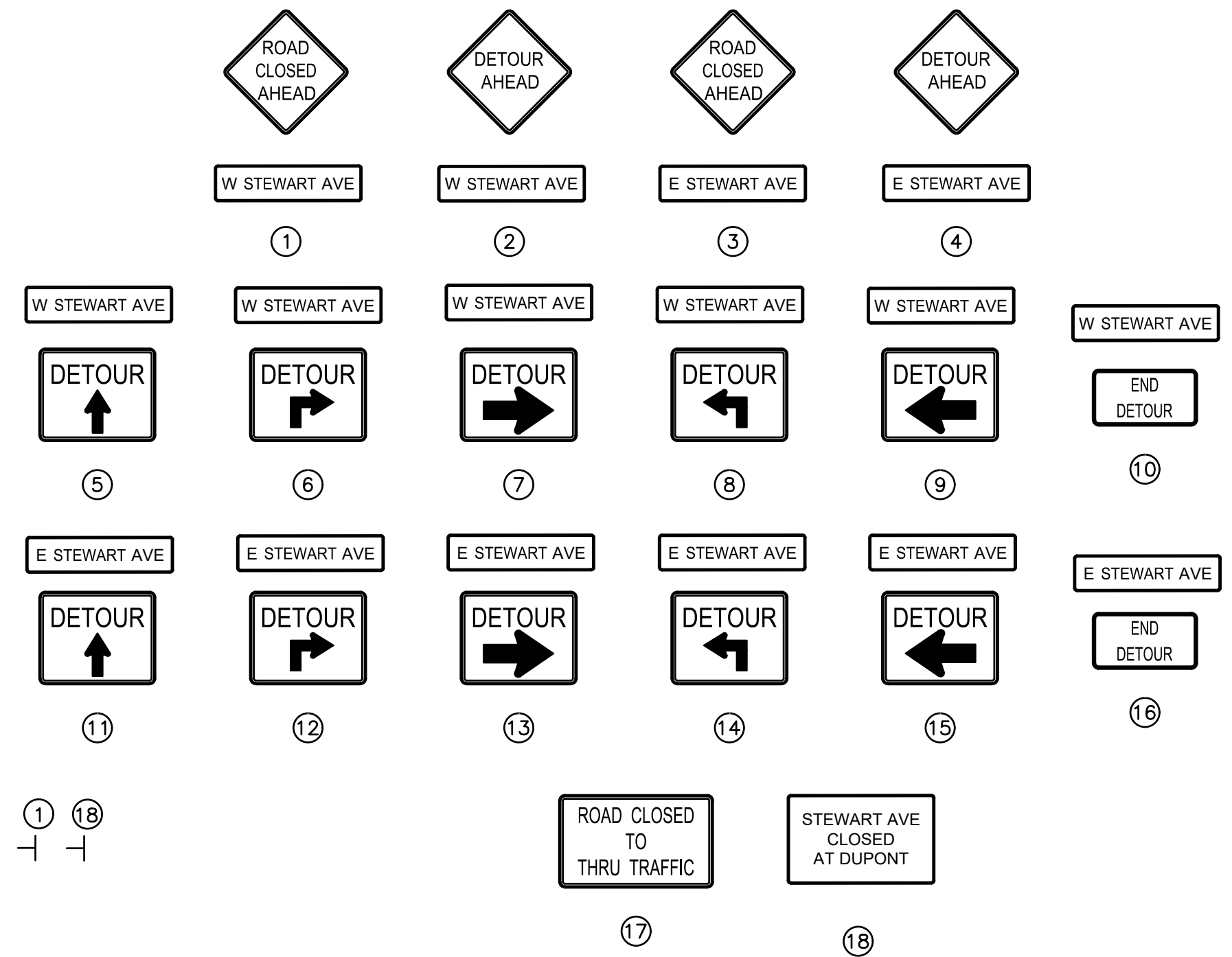
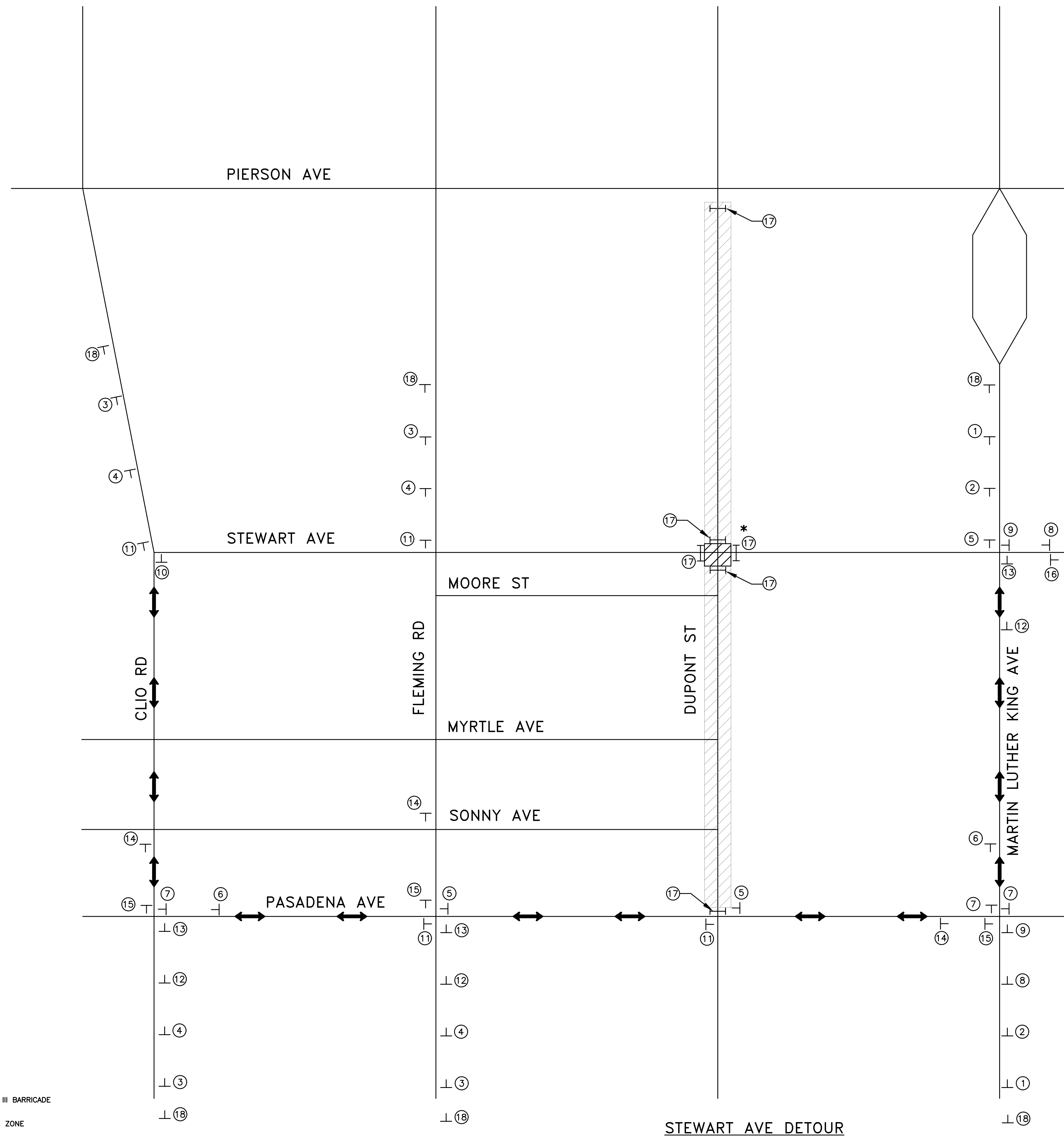
CITY OF FLINT
1101 SOUTH SAGINAW STREET
FLINT, MI 48502
DUPONT STREET – NORTH
MAINTENANCE OF TRAFFIC SHEET 1

ISSUED FOR:	DATE:	BY:
GI PLANS	10/25/18	JJS
FINAL REVIEW	2/25/19	JJS
FINAL PLANS	4/19/19	JJS

JOB NO.
COF1065.01F

SHEET

25







* SIGNAL SHALL REMAIN IN FLASH.
(YELLOW FOR STEWART AVE &
RED FOR DUPONT ST)

NOTE: CLOSURE WILL OCCUR WHEN THE DUPONT CLOSURE IS IN PLACE. STEWART AVE CAN ONLY BE CLOSED FOR A MAXIMUM OF 28 CONSECUTIVE CALENDAR DAYS.

STEWART AVE DETOUR

LEGEND

	SIGN
	TYPE III BARRICADE
	WORK ZONE
	TRAFFIC FLOW



Know what's **below**.
Call before you dig.

[illegible]

555 S. Saginaw Street, Suite 201
Flint, MI 48502
810.235.2555
www.wadetrin.com



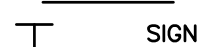
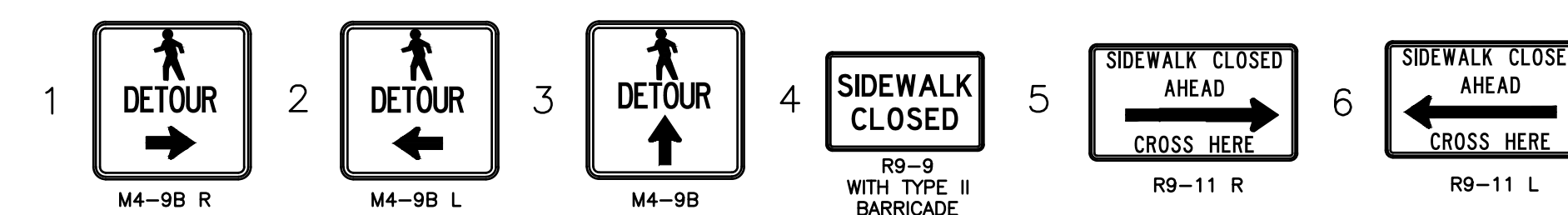
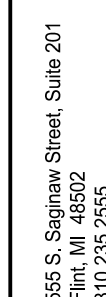
CITY OF FLINT
1101 SOUTH SAGINAW STREET
FLINT, MI 48502
DUPONT STREET - NORTH
MAINTENANCE OF TRAFFIC SHEET 2

ISSUED FOR:	DATE:	BY:
GI PLANS	10/25/18	JJS
FINAL REVIEW	2/25/19	JJS
FINAL PLANS	4/19/19	JJS

COF1065.01F

SHEET

26

[illegible]

1101 CITY OF FLINT
SOUTH SAGINAW STREET
FLINT, MI 48502
DUPONT STREET - NORTH
MAINTENANCE OF TRAFFIC SHEET 3
PROCEEDING DETROIT

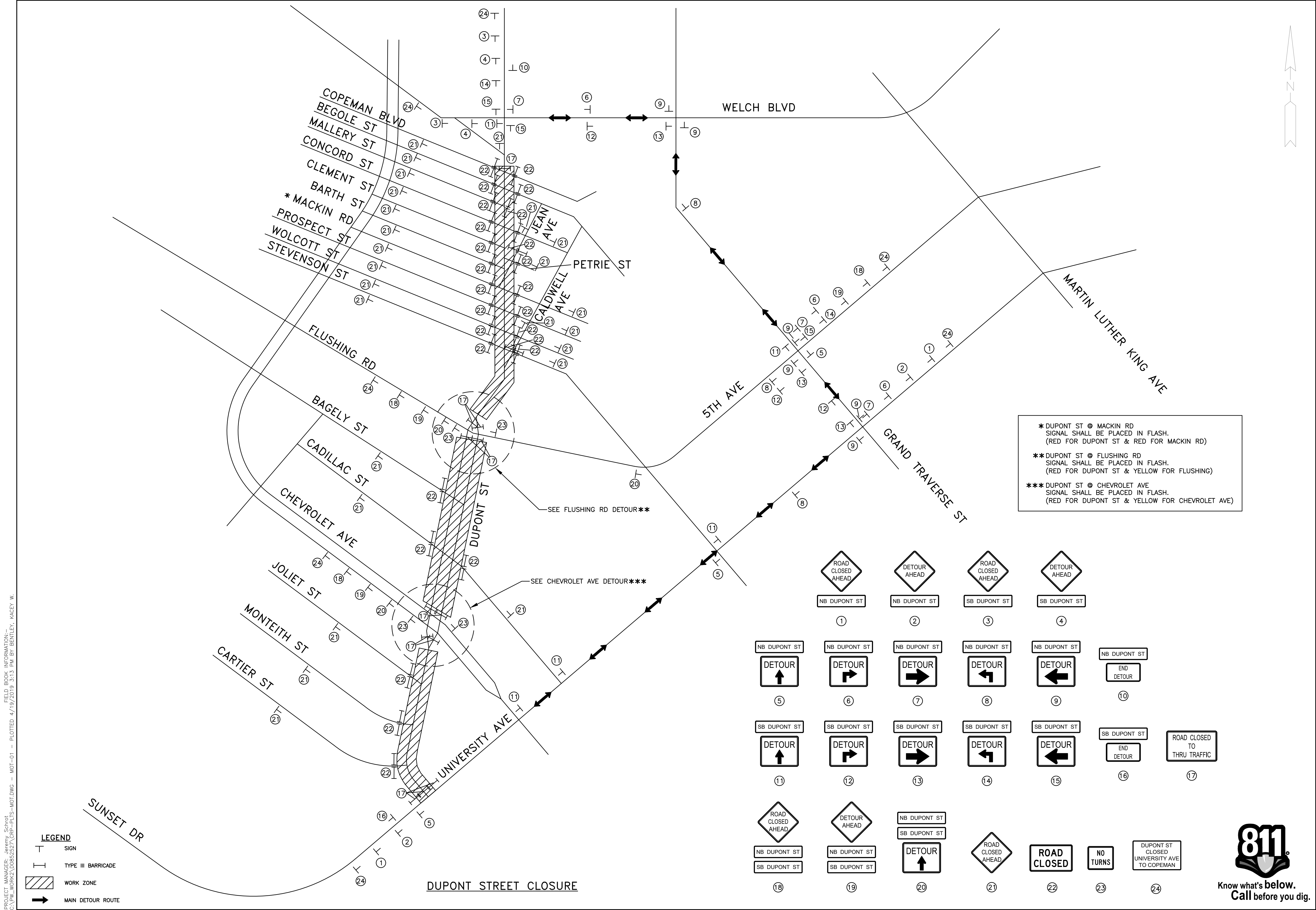
ISSUED FOR:	DATE:	BY:
GI PLANS	10/25/18	JL
FINAL REVIEW	2/25/19	JL
FINAL PLANS	4/19/19	JL

JOB NO.
COF1065.01F



Know what's **below**.
Call before you dig.

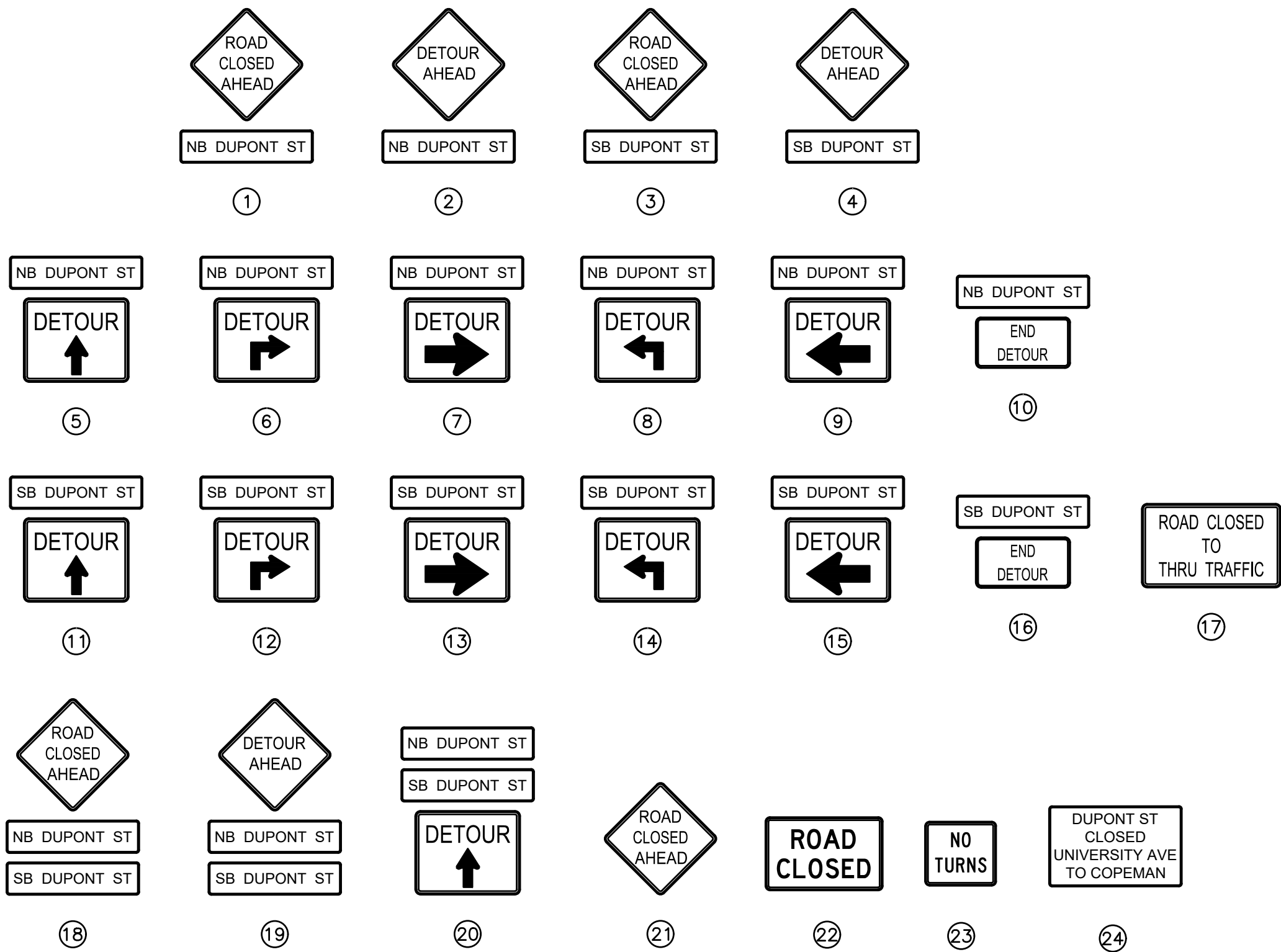
PROJECT MANAGER: Jeremy Schriber
C:\PL\WORK\2\085527\085527.dwg - MOT-01 - PLOTTED: 4/19/2019 3:13 PM BY: BENILEY, KACEY, W.



* DUPONT ST @ MACKIN RD
SIGNAL SHALL BE PLACED IN FLASH.
(RED FOR DUPONT ST & RED FOR MACKIN RD)

** DUPONT ST @ FLUSHING RD
SIGNAL SHALL BE PLACED IN FLASH.
(RED FOR DUPONT ST & YELLOW FOR FLUSHING)

*** DUPONT ST @ CHEVROLET AVE
SIGNAL SHALL BE PLACED IN FLASH.
(RED FOR DUPONT ST & YELLOW FOR CHEVROLET AVE)



Know what's below.
Call before you dig.

555 S. Saginaw Street, Suite 201
Flint, MI 48502
810.285.2555
www.wadetrim.com



CITY OF FLINT
1101 SOUTH SAGINAW STREET
FLINT, MI 48502
DUPONT STREET - SOUTH
MAINTENANCE OF TRAFFIC SHEET 1

ISSUED FOR: DATE: BY:
GI PLANS 10/25/18 JUS
FINAL REVIEW 2/25/19 JUS
FINAL PLANS 4/19/19 JUS

JOB NO.
COF1065.01F

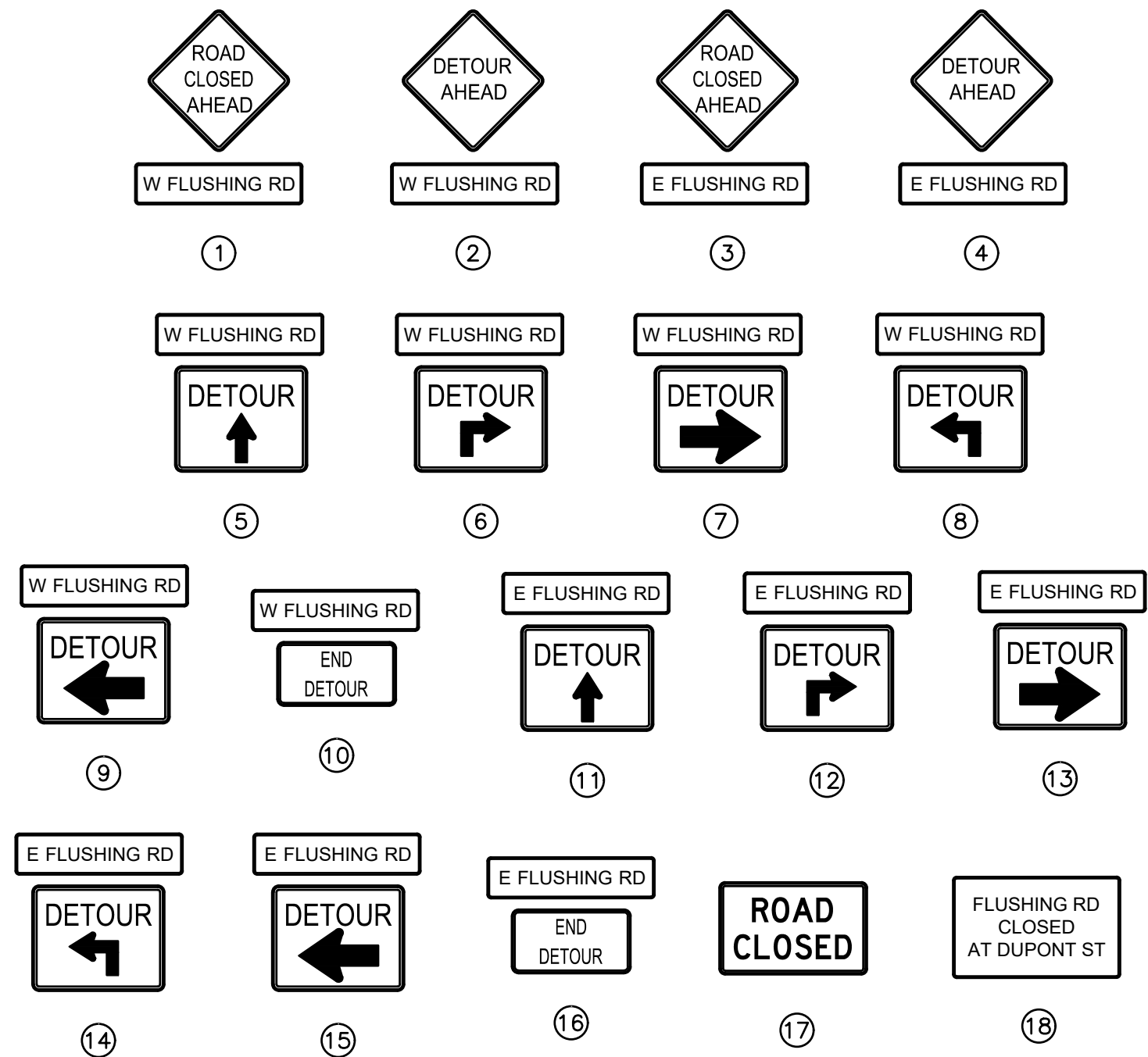
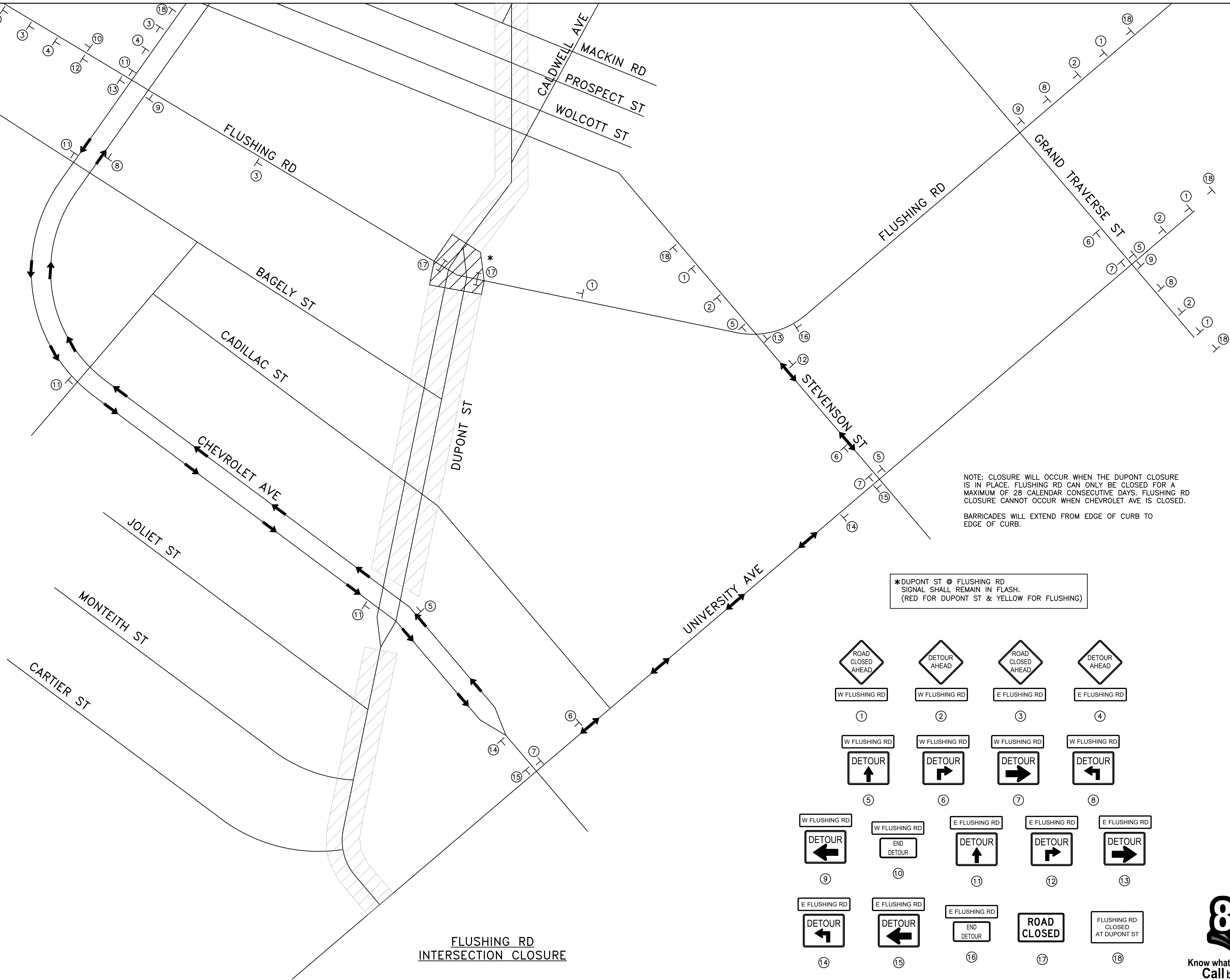
SHEET

28

© Wade Trim Group, Inc.

PROJECT MANAGER: Jeremy Schrotz
C:\PL\WORK\2\085527\085527.dwg - PLOTTED 4/19/2019 3:13 PM BY BENILEY, KACEY W.

- LEGEND**
- T SIGN
 - I TYPE III BARRICADE
 - WORK ZONE
 - TRAFFIC FLOW



555 S. Saginaw Street, Suite 201 Flint, MI 48502 810.252.2555 www.wadetrmm.com	
WADE TRIM	
CITY OF FLINT 1101 SOUTH SAGINAW STREET FLINT, MI 48502 DUPONT STREET - SOUTH MAINTENANCE OF TRAFFIC SHEET 2	
ISSUED FOR:	DATE:
GI PLANS	10/25/18 JUS
FINAL REVIEW	2/25/19 JUS
FINAL PLANS	4/19/19 JUS
JOB NO.	COF1065.01F
SHEET	29
© Wade Trim & Associates, Inc.	



JOB NO.
COF1065.01F

SHEET
31

PROJECT MANAGER: Jeremy Schrot
C:\PW_WORK2\0852527\CRP-PLTS

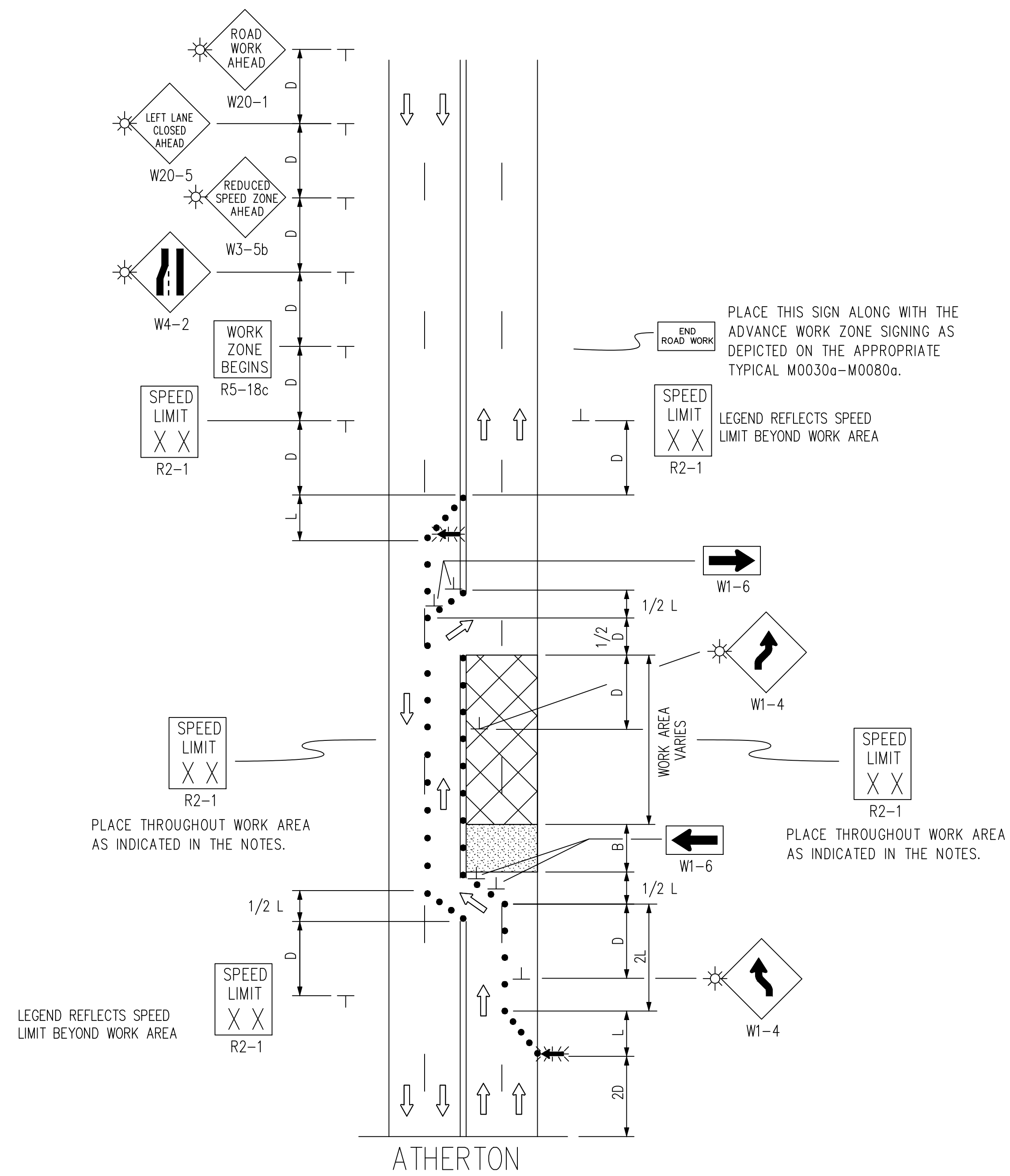


Know what's **below**.
Call before you dig.



Call before you dig.

MDOT MAINTENANCE OF TRAFFIC TYPICAL M0310a



STAGE 3a:
TWO SOUTH LANES CLOSED. TWO-WAY TRAFFIC
MAINTAINED ON TWO NORTH LANES.





STAGE 3b:
TWO NORTH LANES CLOSED. TWO-WAY TRAFFIC
MAINTAINED ON TWO SOUTH LANES.

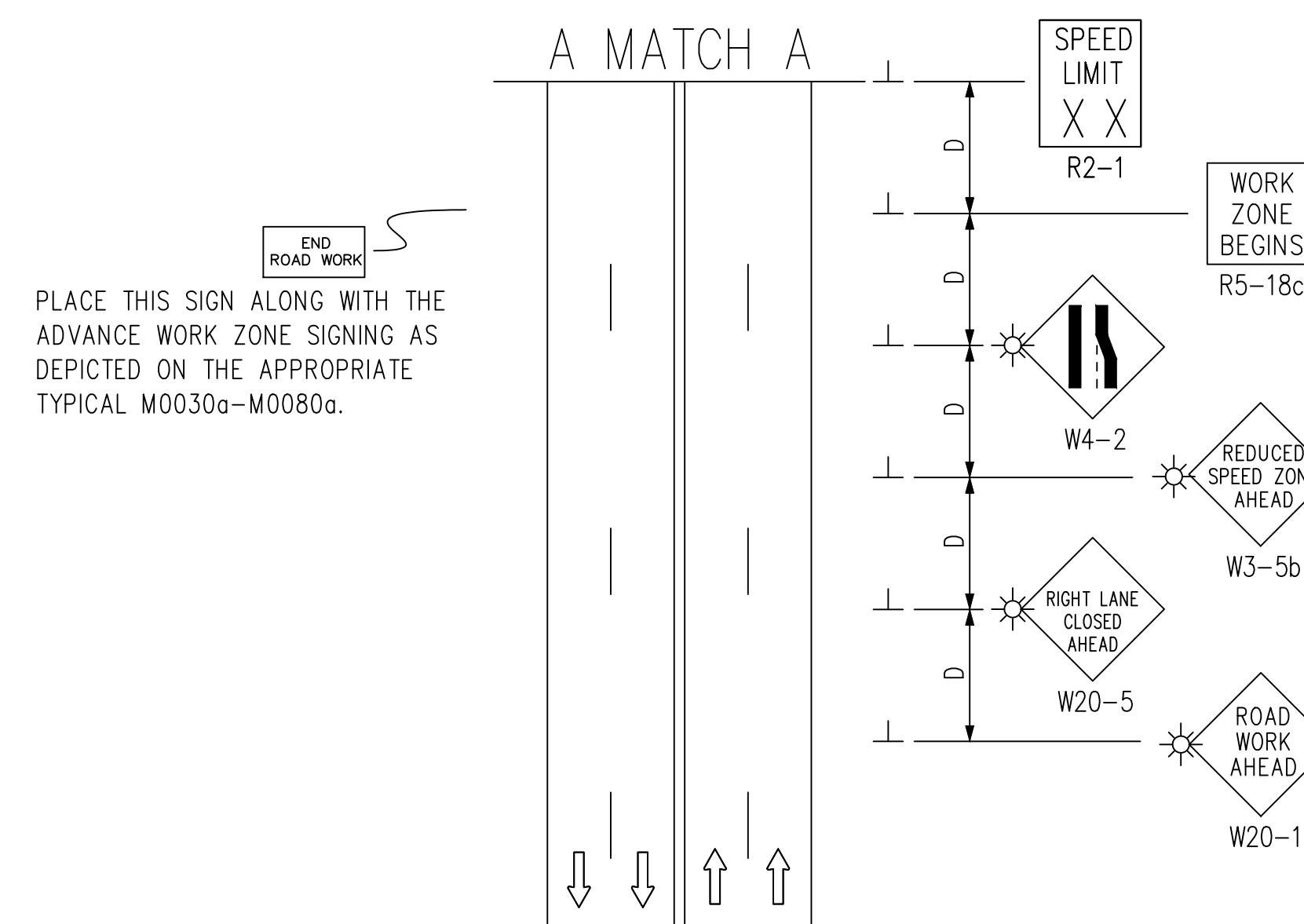
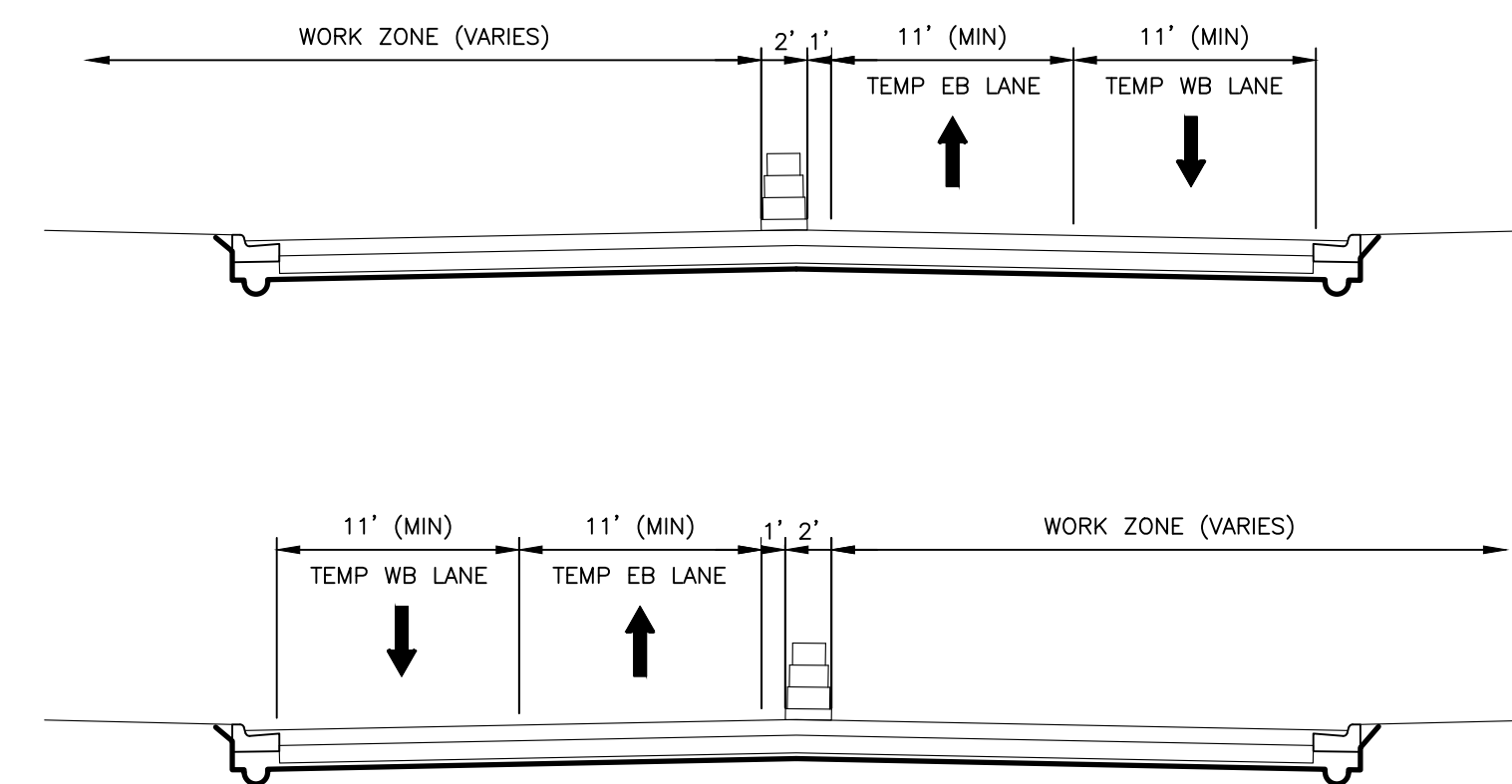
SEE DETAIL 6 FOR MAINTAINING SIDE STREET ACCESS.
SEE DETAIL 5 FOR MAINTAINING PEDESTRIAN ACCESS.

STAGE 3

DETAIL 3: FENTON TO S. GRAND TRAVERSE RD

KEY

-  CHANNELIZING DEVICES
 LIGHTED ARROW PANEL
 TYPE A WARNING FLASHER (REQUIRED)
 TRAFFIC FLOW



WILL BE PLACED ON THE SB OFF
RAMP (EXIT 5) OF I-475

[illegible]

Flint, MI 48502
810.235.2555
www.wadetrin.com



11101 SOUTH SAGINAW STREET
FLINT, MI 48502
CITY OF FLINT
ATHERTON ROAD

MAINTENANCE OF TRAFFIC SHEET 3
DETAIL SHEET 1

ISSUED FOR:	DATE:	BY:
PLANS	10/25/18	JJS
FINAL REVIEW	2/25/19	JJS
FINAL PLANS	4/19/19	JJS

OB NO.
COF1065.01F

HEET

34

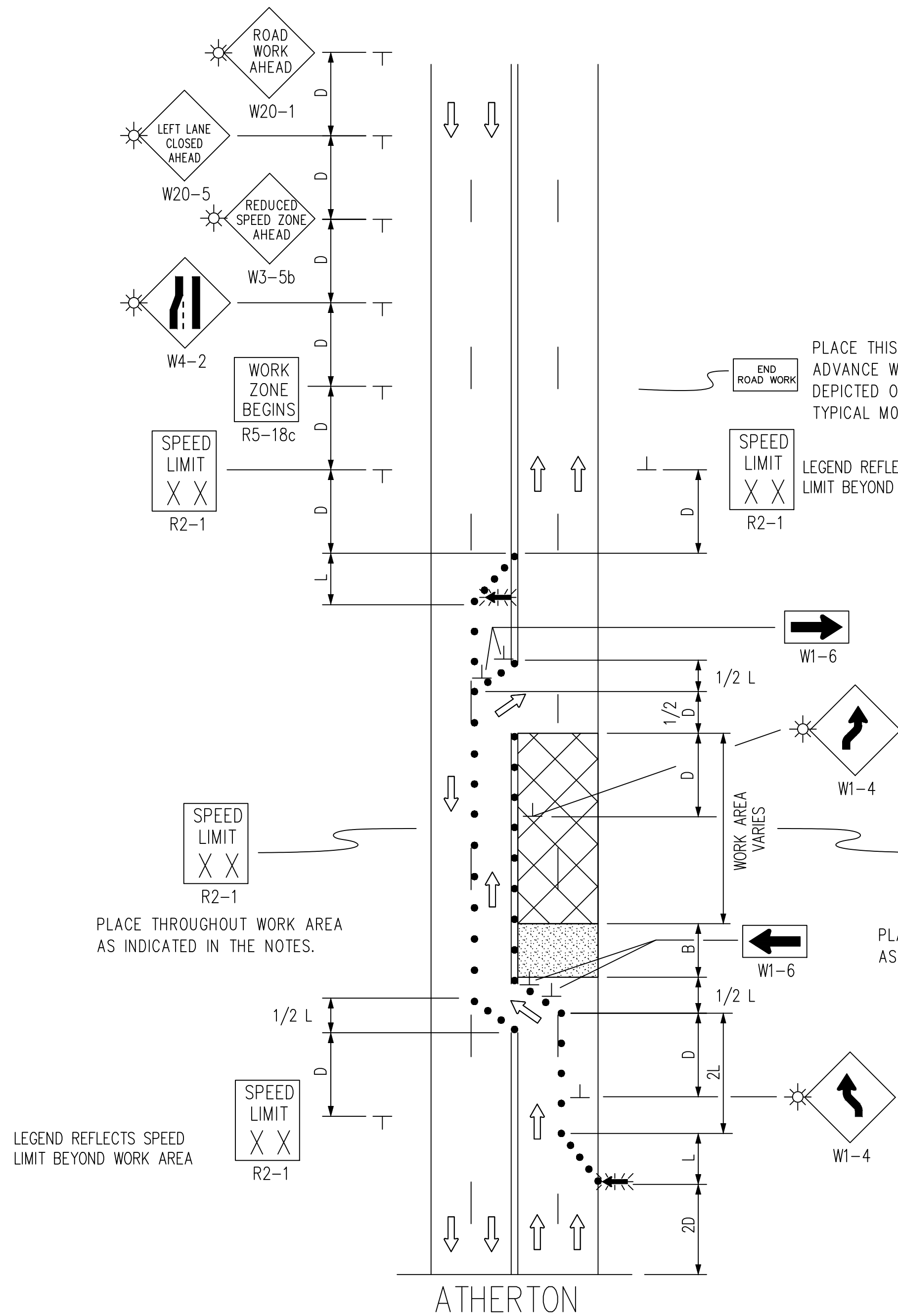
PROJECT MANAGER: Jeremy Scholtz
C:\PL\WORK\21085523\8\GP-PLS-MGT.DWG - MOT-04 - PLOTTED 4/19/2019 3:14 PM BY BENILEY, KACEY, W.
FIELD BOOK INFORMATION:
4/19/2019 3:14 PM BY BENILEY, KACEY, W.



Know what's below.
Call before you dig.

LEGEND REFLECTS SPEED
LIMIT BEYOND WORK AREA

PLACE THROUGHOUT WORK AREA
AS INDICATED IN THE NOTES.

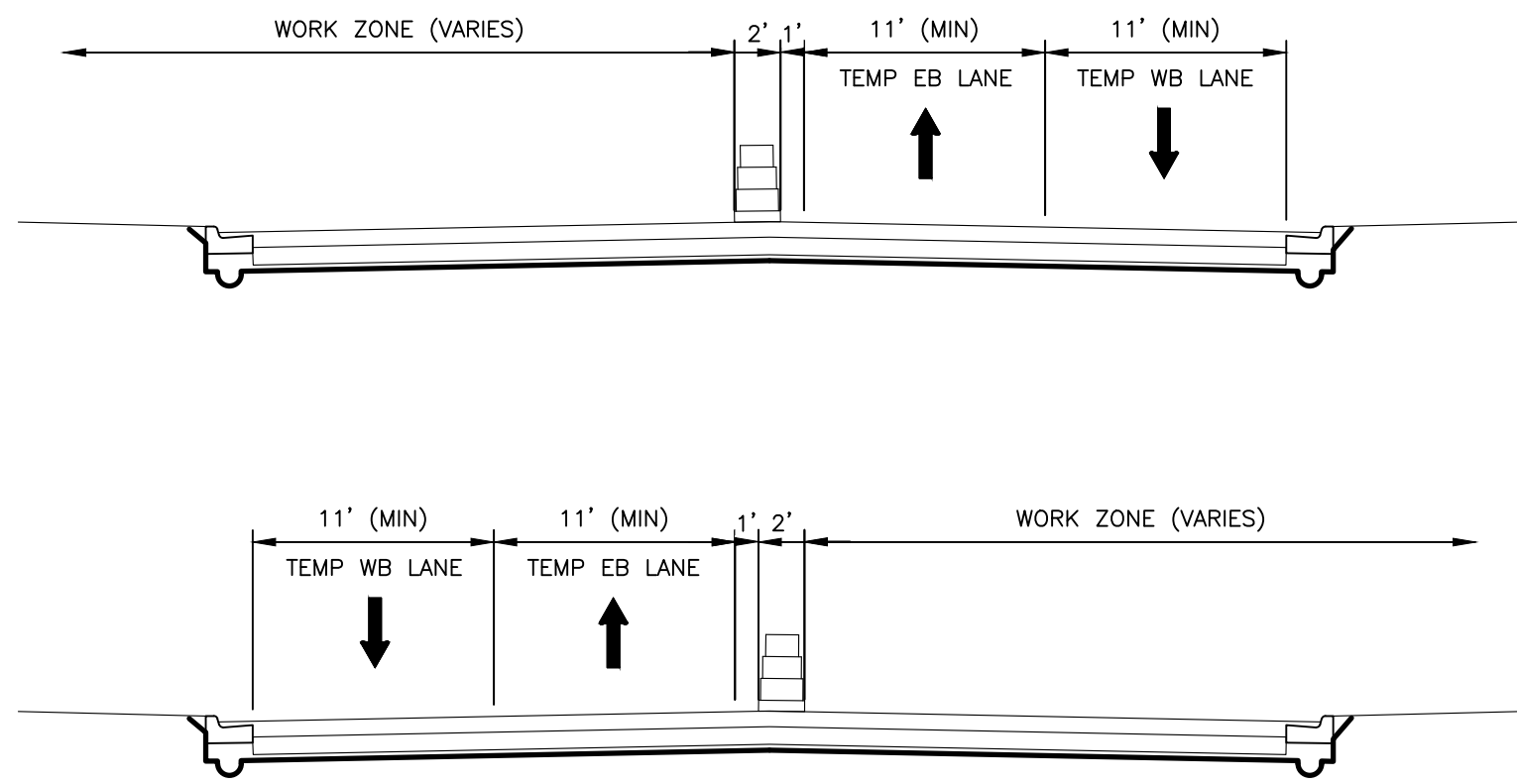


SEE DETAIL 6 FOR MAINTAINING SIDE STREET ACCESS.
SEE DETAIL 5 FOR MAINTAINING PEDESTRIAN ACCESS.

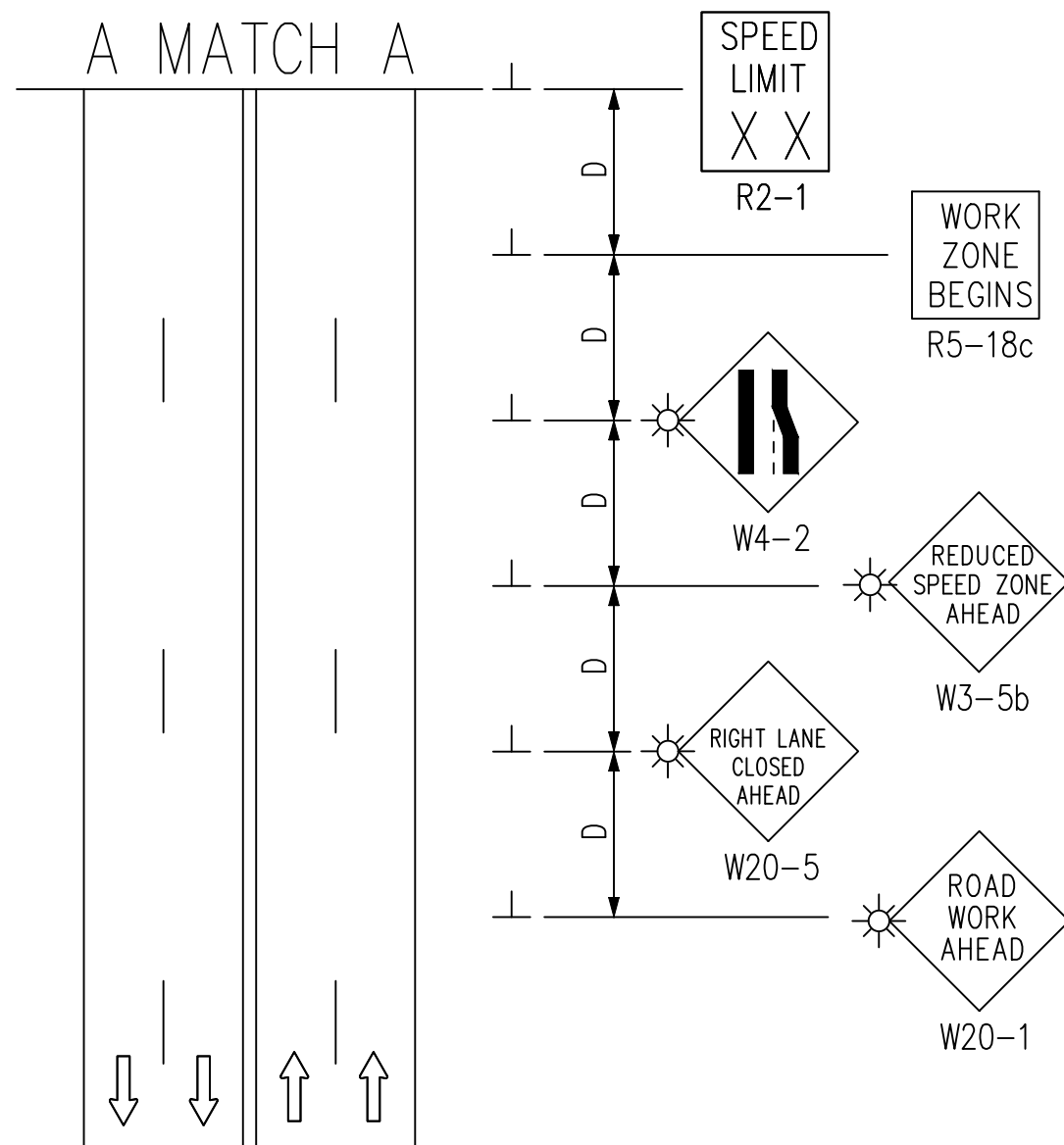
DETAIL 4: S. GRAND TRAVERSE RD TO SAGINAW ST. (STAGE 4)
SAGINAW ST TO DORT HWY (STAGE 1)

KEY

- • • CHANNELIZING DEVICES
- ← LIGHTED ARROW PANEL
- ☀ TYPE A WARNING FLASHER (REQUIRED)
- TRAFFIC FLOW



PLACE THIS SIGN ALONG WITH THE
ADVANCE WORK ZONE SIGNING AS
DEPICTED ON THE APPROPRIATE
TYPICAL M0030a-M0080a.



STAGE 4:
FOR USE ON EB APPROACH.

STAGE 1:
FOR USE ON WB APPROACH



WILL BE PLACED ON DORT HWY 500 FT
IN ADVANCE OF THE ATHERTON ROAD
INTERSECTION ON THE NORTH AND SOUTH
APPROACHES.

CITY OF FLINT
1101 SOUTH SAGINAW STREET
FLINT, MI 48502
ATHERTON ROAD
MAINTENANCE OF TRAFFIC SHEET 4
DETAIL SHEET 2

ISSUED FOR: DATE: BY:
GI PLANS 10/25/18 JUS
FINAL REVIEW 2/25/19 JUS
FINAL PLANS 4/19/19 JUS

JOB NO.
COF1065.01F

SHEET

35

555 S. Saginaw Street, Suite 201
Flint, MI 48502
810.252.2555
www.wadetrim.com



© Wade Trim & Associates, Inc.



STAGE 4:
FOR USE ON WB APPROACH.

STAGE 1:
FOR USE ON EB APPROACH

WHEN WORKING IN THE INTERSECTION, SAGINAW STREET WILL BE MAINTAINED USING THIS DETAIL. WORK IN THIS INTERSECTION MUST TAKE PLACE IN QUADRANTS TO MAINTAIN TWO WAY TRAFFIC ON ATHERTON AND SAGINAW.

STAGE 4a:
TWO NORTH LANES CLOSED. MAINTAIN
TWO-WAY TRAFFIC TWO SOUTH LANES.

STAGE 4b:
TWO SOUTH LANES CLOSED. MAINTAIN
TWO-WAY TRAFFIC ON TWO NORTH
LANES.

STAGE 1a:
TWO SOUTH LANES CLOSED. MAINTAIN
TWO-WAY TRAFFIC ON TWO NORTH
LANES.

STAGE 1b:
TWO NORTH LANES CLOSED. MAINTAIN
TWO-WAY TRAFFIC TWO SOUTH LANES.

Flint, MI 48502
810.235.2555
www.wadetrin.com



11101 SOUTH SAGINAW STREET
FLINT, MI 48502
ATHERTON ROAD

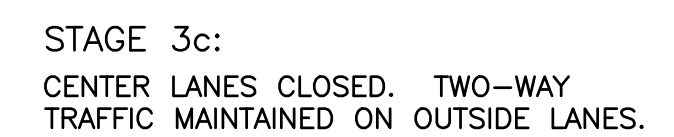
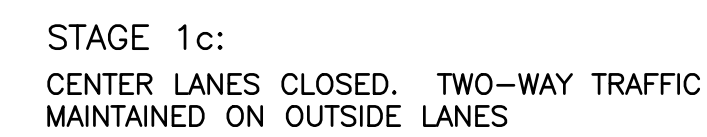
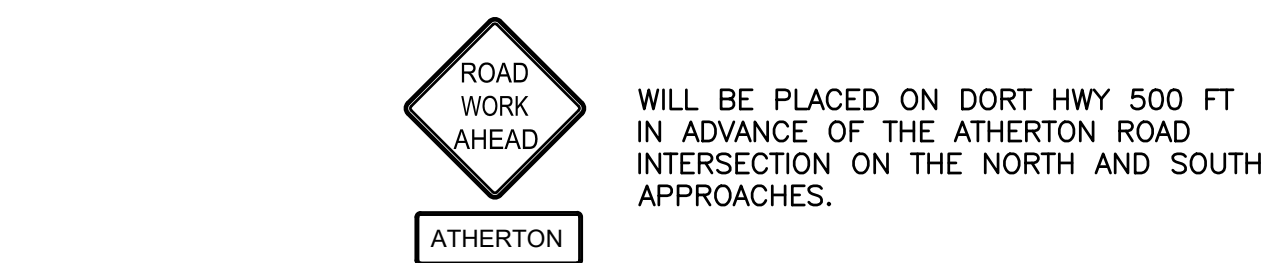
MAINTENANCE OF TRAFFIC SHEET 5
DETAIL SHEET 2

USED FOR:	DATE:	BY:
PLANS	10/25/18	JJS
AL REVIEW	2/25/19	JJS
AL PLANS	4/19/19	JJS

COF1065.01F

EFT

6



**Know what's below.
Call before you dig.**

[illegible]

**WADE
TRIM**

555 S. Sagnaw Street, Suite 201
Farm, MI 48502
Phone: 313.281.1100
www.wadetrim.com

CITY OF FLINT
1101 SOUTH SAGINAW STREET
FLINT, MI 48502

ATHERTON ROAD
MAINTENANCE OF TRAFFIC SHEET 6
DETAIL SHEET 2

ISSUED FOR: DATE: BY:
 GI PLANS 10/25/18 JJS
 FINAL REVIEW 2/25/19 JJS
 FINAL PLANS 4/19/19 JJS

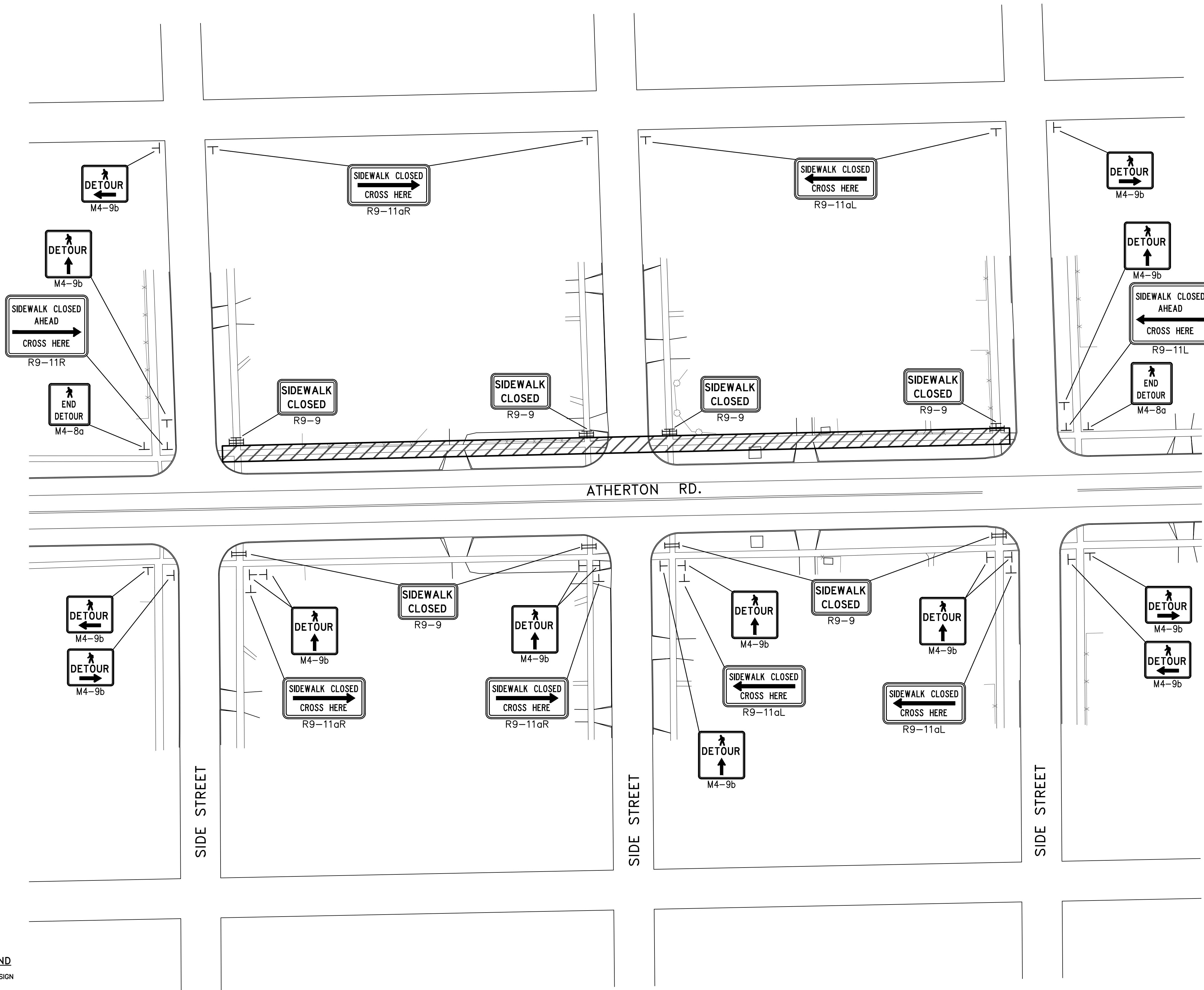
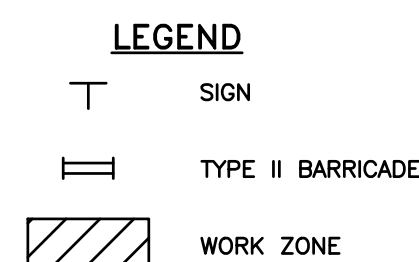
JOB NO.
 COF1065.01F

SHEET

36A



Know what's **below**.
Call before you dig.



DETAIL 5: PEDESTRIAN DETOURS

NOTE:
MAINTENANCE OF VEHICLE TRAFFIC ON ATHERTON
AND SIDE STREETS ARE SHOWN ON SEPARATE DETAILS.

[illegible]

PROJECT MANAGER: Jeremy Scholtz
C:\PL\WORK\2\085525\8\085525-PLS-MGT.DWG - MOT-08 - PLOTTED 4/19/2019 12:25 PM BY BENILEY, KACEY W.



Know what's below.
Call before you dig.

LEGEND

- T SIGN
I TYPE III BARRICADE
WORK ZONE

DETAIL 6: SIDE STREET ACCESS

NOTES:
MAINTENANCE OF VEHICLE AND PEDESTRIAN
TRAFFIC ON AATHERTON ARE SHOWN ON
SEPARATE DETAILS.
ALWAYS MAINTAIN ACCESS TO SIDE STREETS
WITH NO OTHER ACCESS POINTS.
MAINTAIN EVERY OTHER SIDE STREET
WHERE APPLICABLE.

CITY OF FLINT
1101 SOUTH SAGINAW STREET
FLINT, MI 48502
AATHERTON ROAD
MAINTENANCE OF TRAFFIC SHEET 8
PEDESTRIAN DETOUR 2

ISSUED FOR: DATE: BY:
GI PLANS 10/25/18 JUS
FINAL REVIEW 2/25/19 JUS
FINAL PLANS 4/19/19 JUS

JOB NO.
COF1065.01F

SHEET
38

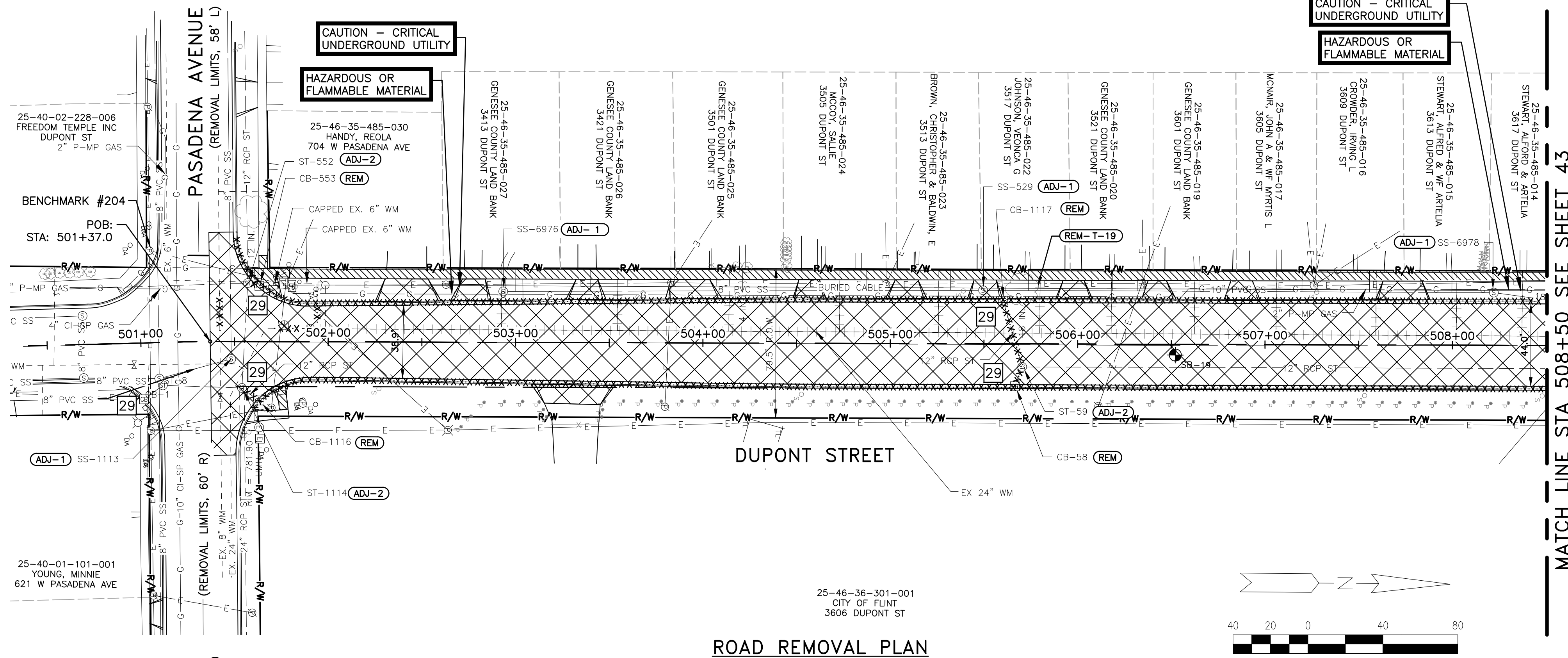
555 S. Saginaw Street, Suite 201
Flint, MI 48502
810.252.2555
www.wadetrim.com



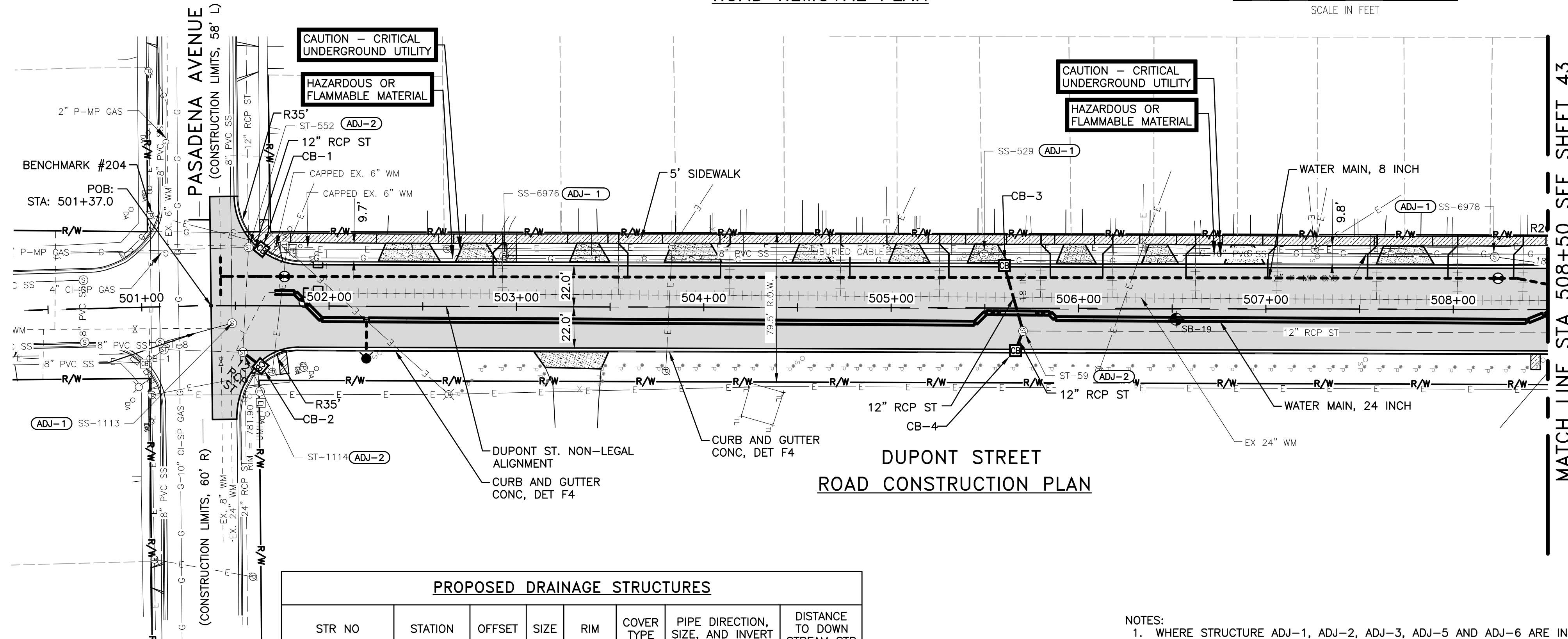
© Wade Trim Group, Inc.



Know what's below.
Call before you dig.



ROAD REMOVAL PLAN



DUPONT STREET
ROAD CONSTRUCTION PLAN

PROPOSED DRAINAGE STRUCTURES							
STR NO	STATION	OFFSET	SIZE	RIM	COVER TYPE	PIPE DIRECTION, SIZE, AND INVERT	DISTANCE TO DOWN STREAM STR
ST-1114	501+54.04	24.8' R				NE 12" 777.03	
ST-552	501+56.95	31.2' L				N 12" 777.99	
CB-2	501+63.56	32.1' R	24"	781.00	K	SW 12" 777.20	12.05' ST-1114
CB-1	501+63.88	30.3' L	24"	781.45	K	S 12" 778.05	6.99' ST-552
CB-3	505+60.31	22.7' L	24"	779.71	K	E 12" 776.20	36.39' ST-59
CB-4	505+66.46	22.7' R	24"	779.69	K	W 12" 776.60	11.16' ST-59
ST-59	505+70.41	12.3' R				W 12" 775.85 E 12" 776.30	

NOTES:

- WHERE STRUCTURE ADJ-1, ADJ-2, ADJ-3, ADJ-5 AND ADJ-6 ARE INDICATED ON THE PLANS, NUMBERS 1, 2, 3, 5 AND 6 CORRESPOND TO CITY OF FLINT CASTING DETAIL NUMBERS CF-1, CF-2, CF-3, CF-5, CF-6 RESPECTIVELY. THE STRUCTURES ARE TO BE ADJUSTED TO FINAL GRADE WITH NEW STRUCTURE FRAMES AND COVERS AS INDICATED ON THE LEGEND SHEET AND THE CITY OF FLINT CASTING DETAILS SHEET. CASTINGS CF-1, CF-2, CF-6 ARE PAID FOR AS PAY ITEM "DR STRUCTURE COVER, TYPE B". CASTINGS CF-3 ARE PAID FOR AS PAY ITEM "DR STRUCTURE COVER, TYPE K". CASTING CF-5 IS PAID FOR AS "DR STRUCTURE COVER, TYPE G". ALL OTHER STRUCTURE COVER TYPES WILL REFER TO MDOT STANDARD PLANS.
- EXISTING STORM STRUCTURES THAT ARE TO BE TAPPED WITH A PROPOSED STORM SEWER ARE INDICATED IN THE STRUCTURE TABLE AS ST-###. THE "ST" INDICATES STRUCTURE TAP AND THE NUMBER (###) INDICATES THE EXISTING STORM STRUCTURE WHICH IS BEING TAPPED.
- WHERE PIPES ARE DESIGNATED FOR REMOVAL, THEY ARE TO BE REMOVED TO AN EXISTING STRUCTURE WHICH WILL REMAIN IN PLACE. THE PIPE OPENING IN THE STRUCTURE SHALL BE REPAIRED/BULK HEADED WITH BRICK AND MORTAR AS APPROVED BY THE ENGINEER.
- MDOT SOIL EROSION CONTROL MEASURE 29 IS INDICATED IN THE TOP PORTION OF THE SHEET FOR EXISTING STORM STRUCTURES WHICH ARE TO BE PROTECTED. SOIL EROSION CONTROL MEASURE 29 SHALL ALSO BE APPLIED TO EACH PROPOSED STORM CATCH BASIN WHICH IS INDICATED IN THE STRUCTURE TABLE AS CB-##.
- WHERE CATCH BASIN RIM ELEVATIONS ARE INDICATED ON THESE PLANS, THE ELEVATION LISTED REPRESENTS THE EDGE OF PAVEMENT ELEVATION.
- FOR ADDITIONAL CURB RADIUS INFORMATION AND DETAILED INTERSECTION GRADING, REFER TO THE DETAILED INTERSECTION GRADING SHEETS.

MAINLINE QUANTITIES - THIS SHEET

ITEM	JN 200906	
	CAT 0001	UNIT
Dr Structure, Rem	4	EA
Sewer, Rem, Less than 24 inch	63	FT
Sidewalk, Rem	415	SYD
Pavt, Rem, Modified	3915	SYD
Tree Rem, 19 inch to 36 inch	1	EA
Embankment, CIP	128	CYD
Excavation, Earth	1814	CYD
Aggregate Base, 6 inch	745	SYD
Aggregate Base, 12 inch	3487	SYD
Sewer, CL E, 12 inch, Tr Det B	63	FT
Dr Structure Cover, Adj, Case 1	7	EA
Dr Structure Cover, Type B	7	EA
Dr Structure Cover, Type K	4	EA
Dr Structure, 24 inch dia	4	EA
Dr Structure, Adj, Add Depth	1	FT
Dr Structure, Tap, 12 inch	4	EA
Underdrain, Subbase, 6 inch	1437	FT
Hand Patching	10	TON
HMA, 3E1	611	TON
HMA, 4E1	403	TON
HMA, 5E1	302	TON
Driveway, Nonreinf Conc, 6 inch	266	SYD
Curb and Gutter, Conc, Det F4	1437	FT
Curb Ramp Opening, Conc	35	FT
Sidewalk Ramp, Conc, 6 inch	424	SFT
Sidewalk, Conc, 4 inch	2095	SFT
Sidewalk, Conc, 6 inch	1329	SFT
Detectable Warning Surface, Modified	30	FT
Turf Establishment, Performance	1167	SYD

DRIVEWAY QUANTITIES - THIS SHEET

STA	SIDE	HOUSE #	PAVT, REM, MODIFIED (SYD)	DRIVEWAY, NONREINF CONC, 6 INCH (SYD)	AGGREGATE BASE, 6 INCH (SYD)
502+42	L	704	39	30	30
502+78	L	3413	22	18	18
503+30	R	3606	42	34	34
503+38	L	3421	20	18	18
503+93	L	3501	29	28	28
504+56	L	3505	15	18	18
505+09	L	3513	19	19	19
505+51	L	3517	17	19	19
505+98	L	3521	17	18	18
506+42	L	3601	15	16	16
506+87	L	3605	17	18	18
507+73	L	3613	28	28	28

BENCHMARK #204
DESCRIPTION: SET GEAR SPIKE IN POWER POLE
LOCATED IN NORTHEAST FACE OF POWER POLE IN THE
SOUTHWEST QUADRANT OF DUPONT AND PASADENA AVE.
NORTHING: 564171.021
EASTING: 13297895.634
ELEVATION: 782.903

CITY OF FLINT
1101 SOUTH SAGINAW STREET
FLINT, MI 48502

DUPONT STREET - NORTH
DUPONT NORTH PLAN AND REMOVAL SHEET 1

ISSUED FOR: DATE: BY:
GI PLANS 10/25/18 JUS
FINAL REVIEW 2/25/19 JUS
FINAL PLANS 4/19/19 JUS

JOB NO.
COF1065.01F

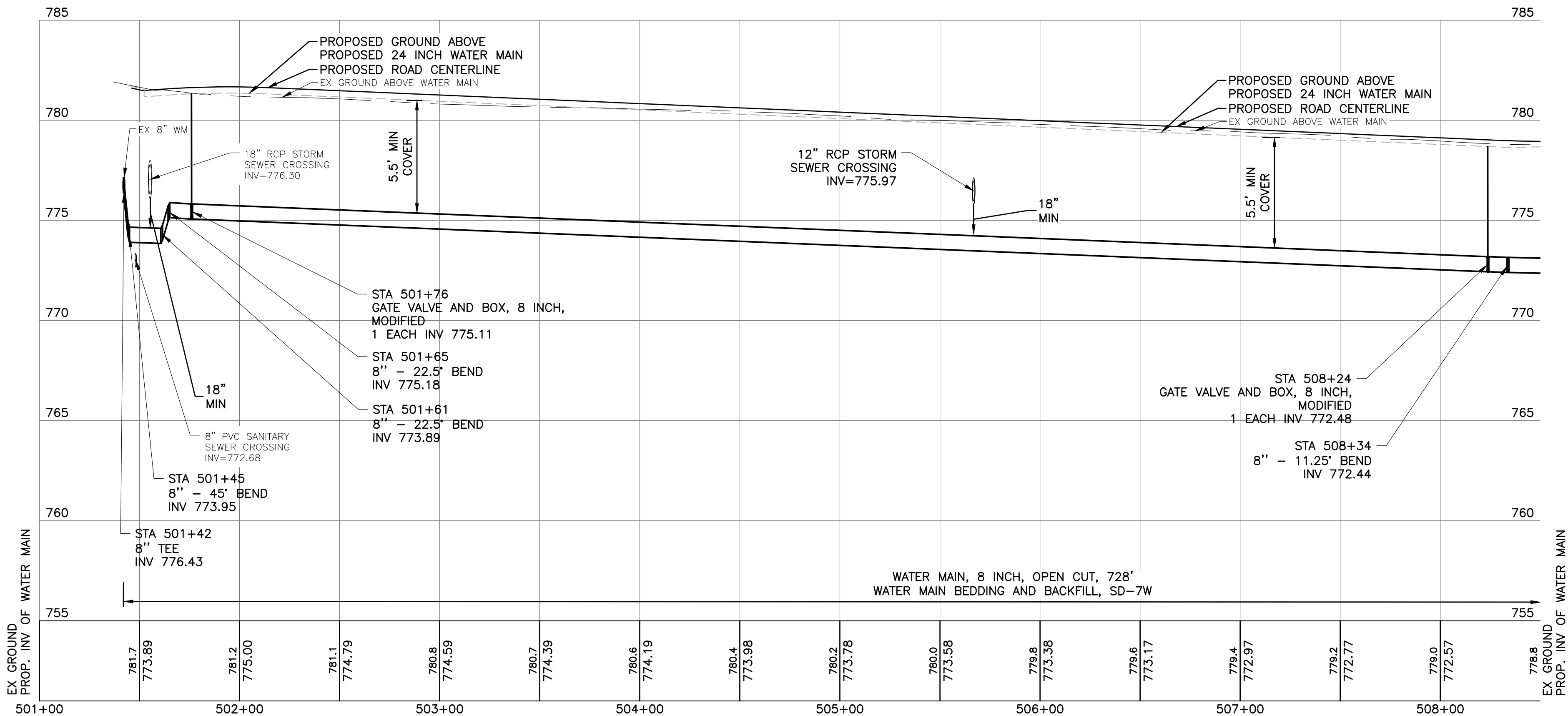
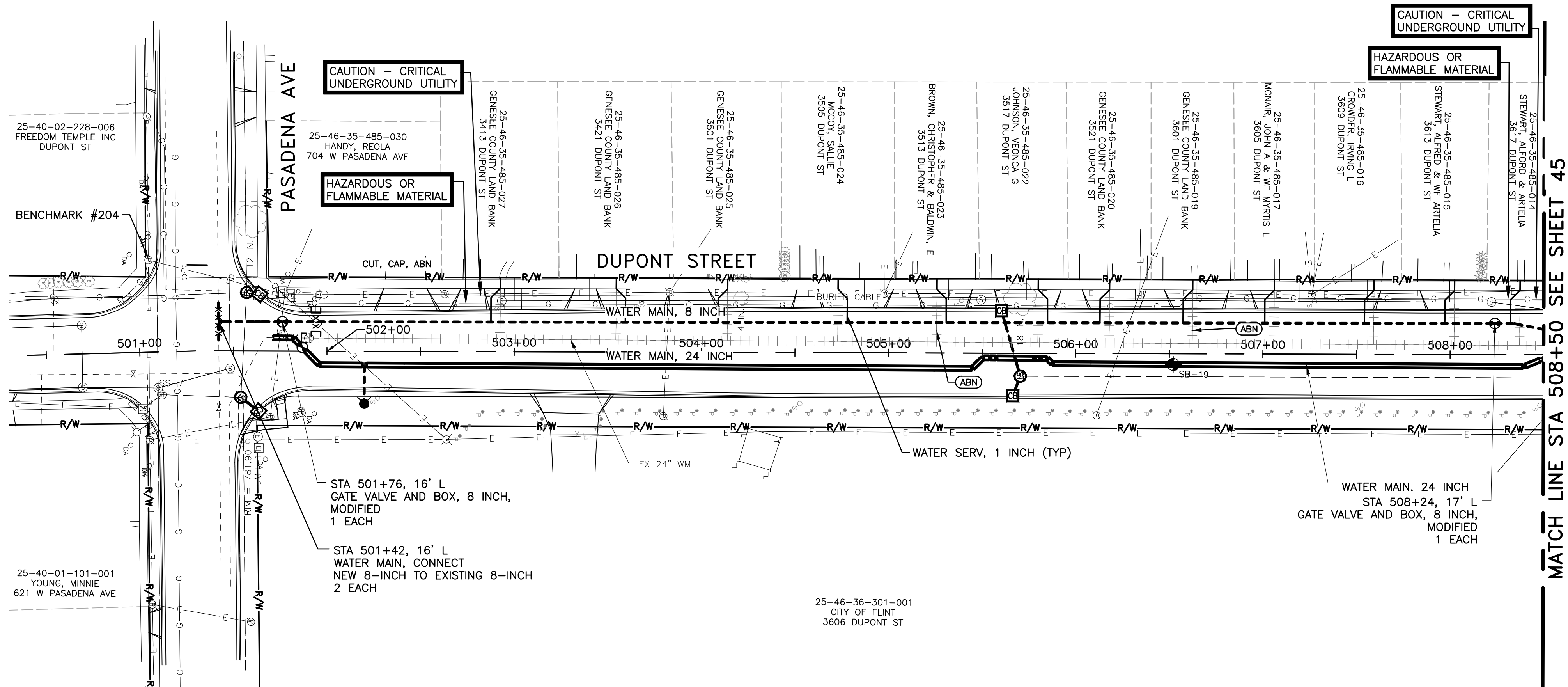
SHEET

39



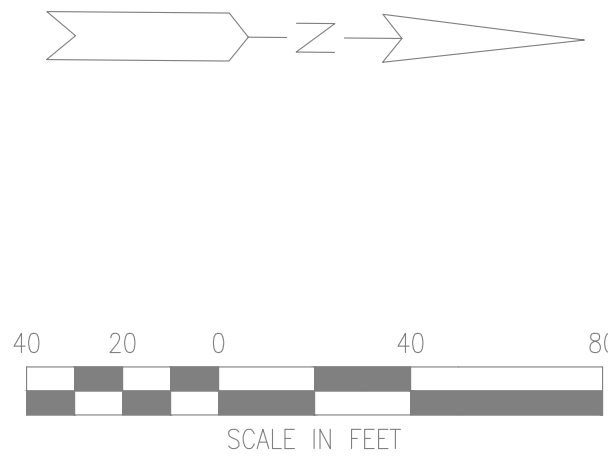
555 S. Saginaw Street, Suite 201
Flint, MI 48502
910.225.2535
www.wadetrims.com

PROJECT MANAGER: FIELD BOOK INFORMATION: C:\P\WORK\2019\2519\CRP-PLTS-WATERMAINPHASE1.DWG - 29 DUPONT NORTH WM 8 INCH P&P SHEET 1 - PLOTTED 4/18/2019 11:54 AM BY: RUGGLES, TIMOTHY



JOB NO. JN200906

BENCHMARK #204
DESCRIPTION: SET GEAR SPIKE IN POWER POLE
LOCATED IN NORTHEAST FACE OF POWER POLE IN THE
SOUTHWEST QUADRANT OF DUPONT AND PASADENA AVE.
NORTHING: 564171.021
EASTING: 13297895.634
ELEVATION: 782.903



QUANTITIES THIS SHEET

ITEM	QUANTITY	UNIT
Gate Valve and Box, 8 inch, Modified	2	EA
Hydrant, Rem, Modified	1	EA
Water Main, 6 inch, Cut and Plug, Modified	2	EA
Water Main, 8 inch, Open Cut	728	FT
Water Main Bedding and Backfill, SD-7W	728	FT
Water Main, Connect New 8 inch to Existing 8 inch	1	EA
Water Main, Rem	20	FT
Water Serv, 1 inch	12	EA

NOTES:

1. WATER MAIN SHALL BE TESTED IN ACCORDANCE WITH AWWA C600-10, AND CHLORINATED IN ACCORDANCE WITH THE LATEST THE CITY OF FLINT STANDARDS AND THE WATER MAIN SPECIAL PROVISIONS. ALL TESTING SHALL BE OBSERVED AND MONITORED BY FLINT.
2. THE CONTRACTOR SHALL INSTALL, AS A MINIMUM, 2" COPORATIONS ON THE PRESSURE PIPE FOR PRESSURE TESTING, CHLORINE ADDITION, AND FOR BLOW-OFF PURPOSES. THE CONTRACTOR SHALL REMOVE THE COPORATIONS AND COPPER LINES UPON A SATISFACTORY TEST AND INSTALL COPPER THREADED PLUGS PRIOR TO FINAL ACCEPTANCE.
3. WATER MAIN SHALL HAVE AT LEAST 10' OF HORIZONTAL SEPARATION AND 18" VERTICAL FROM ANY SANITARY OR STORM SEWER.
4. GATE VALVES AT THE END OF LINES SHALL HAVE ONE PIPE LENGTH ADDED PRIOR TO ENDING WITH A HYDRANT.
5. A MINIMUM OF 5.5- FEET OF COVER SHALL BE ACHIEVED OVER THE WATER MAIN AT ALL TIMES.
6. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING WATER MAIN SIZE AND LOCATIONS PRIOR TO CONNECTION.
7. ALL BACKFILL SHALL BE IN ACCORDANCE WITH THE CITY OF FLINT DETAIL SD-7W.
8. REMOVE EXISTING HYDRANTS AS INDICATED ON THE PLANS. CONTRACTOR SHALL CLEARLY DESIGNATE WHEN THE EXISTING HYDRANT IS OUT OF SERVICE.
9. DEFLECT WATER MAIN AS NOTED ON THE PLANS. DEFLECT WATER MAIN NO MORE THAN ONE-HALF OF THE MANUFACTURER'S RECOMMENDED MAXIMUM DEFLECTION FOR EACH JOINT. IF NEEDED, USE BENDS TO MAKE DEFLECTIONS. ADDITIONAL BENDS ARE INCIDENTAL TO WATER MAIN, _INCH, OPEN CUT.

SEE NEXT SHEET FOR 24"
WATER MAIN INFORMATION



CITY OF FLINT
1101 SOUTH SAGINAW STREET
FLINT, MI 48502
DUPONT STREET - NORTH
DUPONT NORTH WM 8-INCH P&P SHEET 1

ISSUED FOR: DATE: BY:
GI PLANS 10/25/18 JUS
FINAL REVIEW 2/25/19 JUS
FINAL PLANS 4/19/19 JUS

JOB NO.
COF1065.01F

SHEET

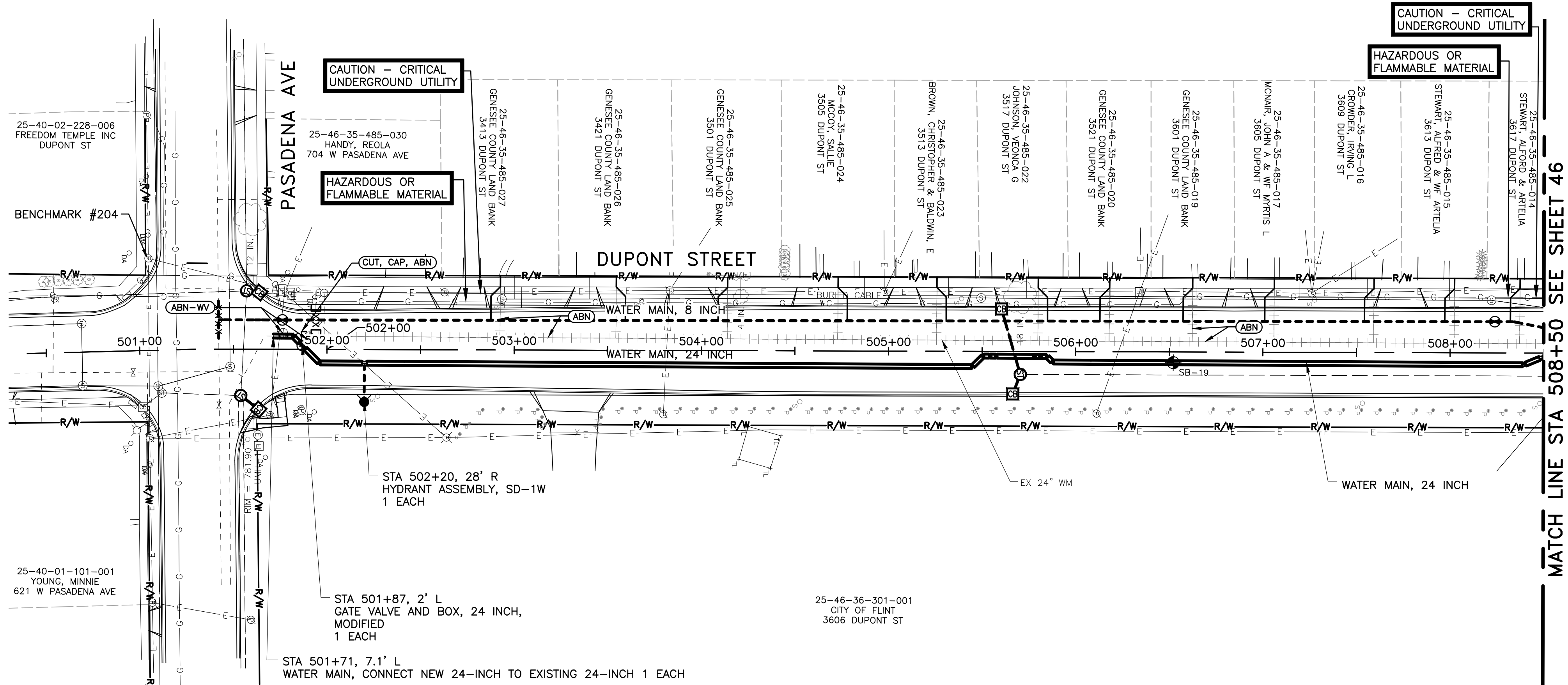
41

© Wade Trim Group, Inc.

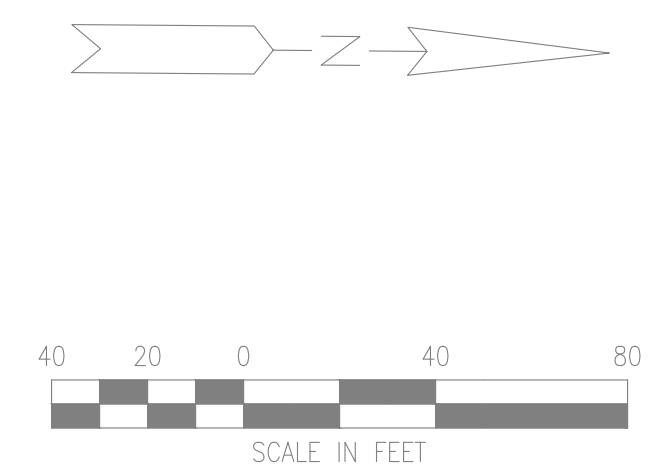


555 S. Saginaw Street, Suite 201
Flint, MI 48502
810.255.2555
www.wadetrिम.com

PROJECT MANAGER: FIELD BOOK INFORMATION: C:\P\WORK\2019\052519\CRP-PLTS-WATERMAINPHASE2.DWG - 30 DUPONT NORTH WM 24-INCH P&P SHEET 1 - PLOTTED 4/18/2019 11:55 AM BY BUGGLES, TIMOTHY



BENCHMARK 204
DESCRIPTION: SET GEAR SPIKE IN POWER POLE
LOCATED IN NORTHEAST FACE OF POWER POLE IN THE
SOUTHWEST QUADRANT OF DUPONT AND PASADENA AVE.
NORTHING: 564171.021
EASTING: 13297895.634
ELEVATION: 782.903

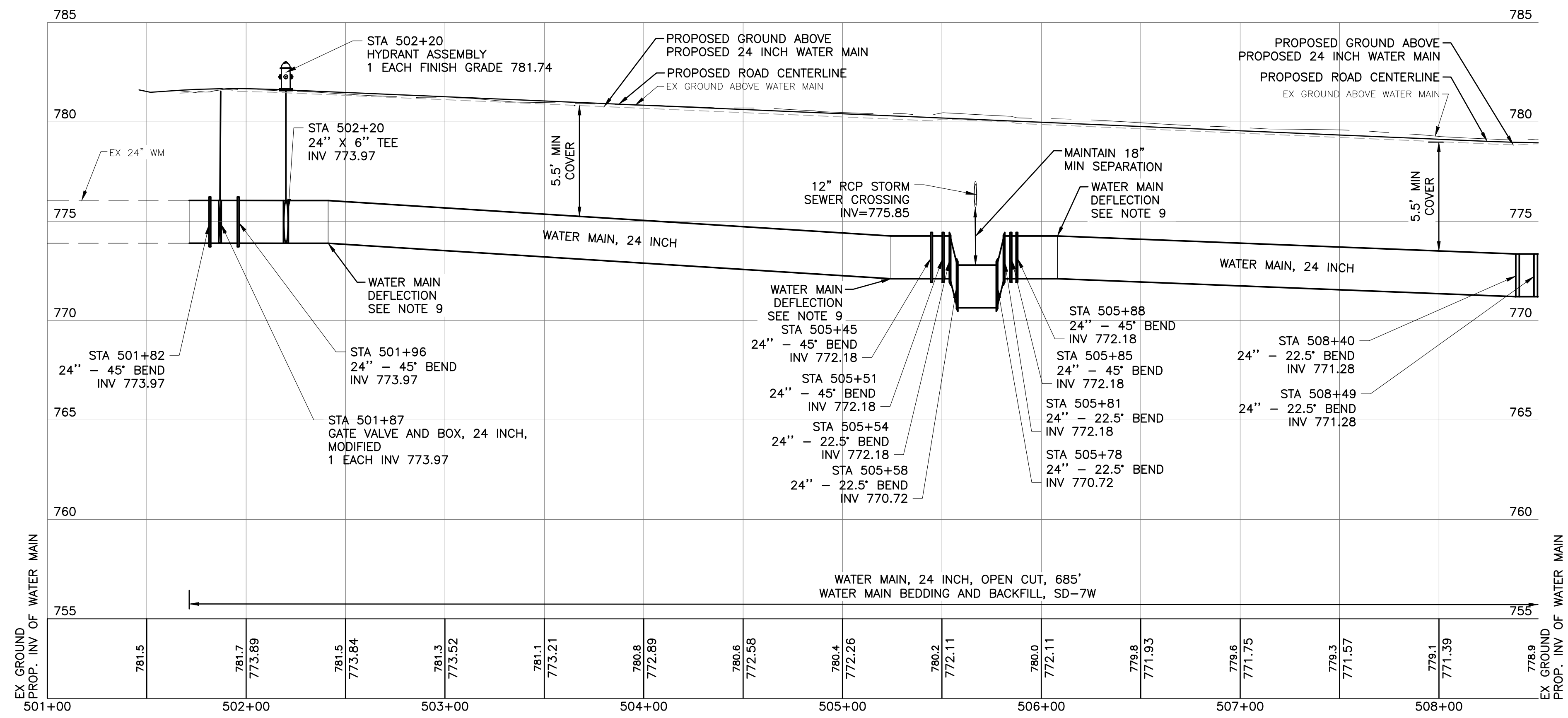


QUANTITIES THIS SHEET

ITEM	QUANTITY	UNIT
Gate Valve and Box, 24 inch, Modified	1	EA
Hydrant Assembly, SD-1W	1	EA
Water Main, 24 inch, Cut and Plug, Modified	1	EA
Water Main, 24 inch, Open Cut	654	FT
Water Main Bedding and Backfill, SD-7W	664	FT
Water Main, Connect New 24 inch to Existing 24 inch	1	EA
Water Main, Rem	15	FT
Water Structure, Abandon	2	EA

- NOTES:
1. WATER MAIN SHALL BE TESTED IN ACCORDANCE WITH AWWA C600-10, AND CHLORINATED IN ACCORDANCE WITH THE LATEST THE CITY OF FLINT STANDARDS AND THE WATER MAIN SPECIAL PROVISIONS. ALL TESTING SHALL BE OBSERVED AND MONITORED BY FLINT.
 2. THE CONTRACTOR SHALL INSTALL, AS A MINIMUM, 2" CORPORATIONS ON THE PRESSURE PIPE FOR PRESSURE TESTING, CHLORINE ADDITION, AND FOR BLOW-OFF PURPOSES. THE CONTRACTOR SHALL REMOVE THE CORPORATIONS AND COPPER LINES UPON A SATISFACTORY TEST AND INSTALL COPPER THREADED PLUGS PRIOR TO FINAL ACCEPTANCE.
 3. WATER MAIN SHALL HAVE AT LEAST 10' OF HORIZONTAL SEPARATION AND 18" VERTICAL FROM ANY SANITARY OR STORM SEWER.
 4. GATE VALVES AT THE END OF LINES SHALL HAVE ONE PIPE LENGTH ADDED PRIOR TO ENDING WITH A HYDRANT.
 5. A MINIMUM OF 5.5- FEET OF COVER SHALL BE ACHIEVED OVER THE WATER MAIN AT ALL TIMES.
 6. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING WATER MAIN SIZE AND LOCATIONS PRIOR TO CONNECTION.
 7. ALL BACKFILL SHALL BE IN ACCORDANCE WITH THE CITY OF FLINT DETAIL SD-7W.
 8. REMOVE EXISTING HYDRANTS AS INDICATED ON THE PLANS. CONTRACTOR SHALL CLEARLY DESIGNATE WHEN THE EXISTING HYDRANT IS OUT OF SERVICE.
 9. DEFLECT WATER MAIN AS NOTED ON THE PLANS. DEFLECT WATER MAIN NO MORE THAN ONE-HALF OF THE MANUFACTURER'S RECOMMENDED MAXIMUM DEFLECTION FOR EACH JOINT. IF NEEDED, USE BENDS TO MAKE DEFLECTIONS. ADDITIONAL BENDS ARE INCIDENTAL TO WATER MAIN, _INCH, OPEN CUT.

SEE PREVIOUS SHEET FOR 8" WATER MAIN INFORMATION



JOB NO. JN200906



CITY OF FLINT
1101 SOUTH SAGINAW STREET
FLINT, MI 48502
DUPONT STREET - NORTH
DUPONT NORTH WM 24-INCH P&P SHEET 1

ISSUED FOR: DATE: BY:
GI PLANS 10/25/18 JUS
FINAL REVIEW 2/25/19 JUS
FINAL PLANS 4/19/19 JUS

JOB NO.
COF1065.01F

SHEET

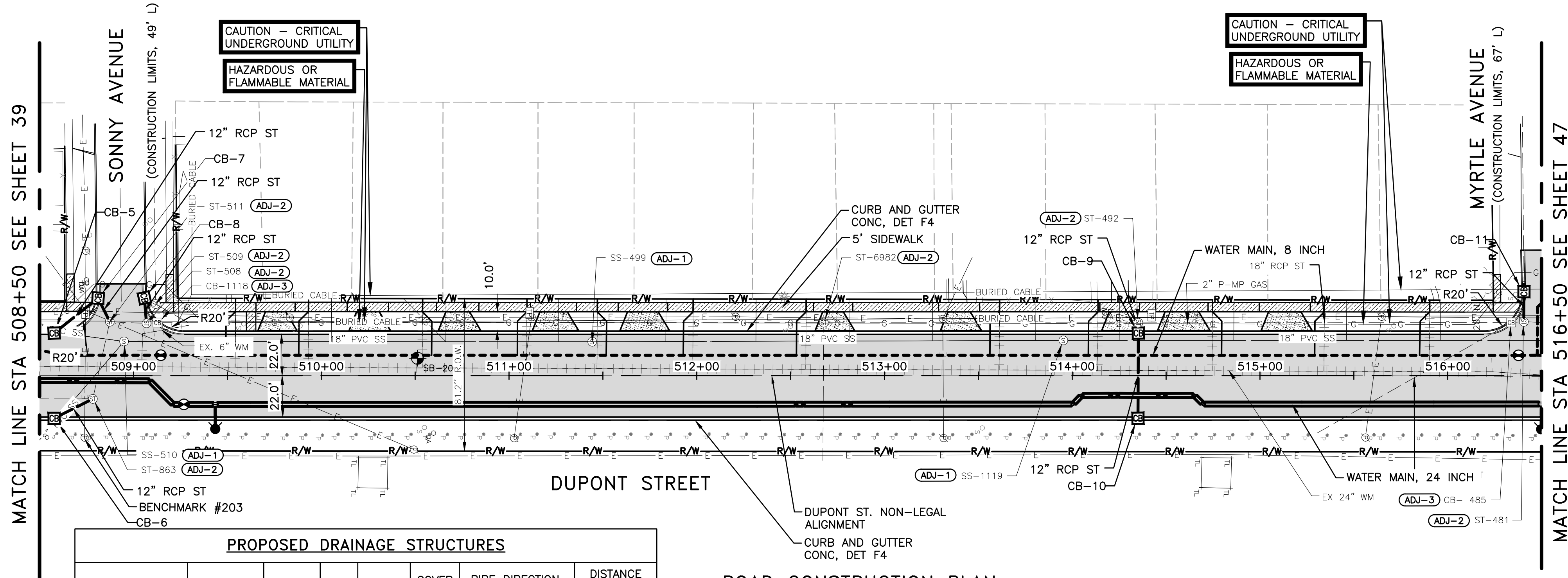
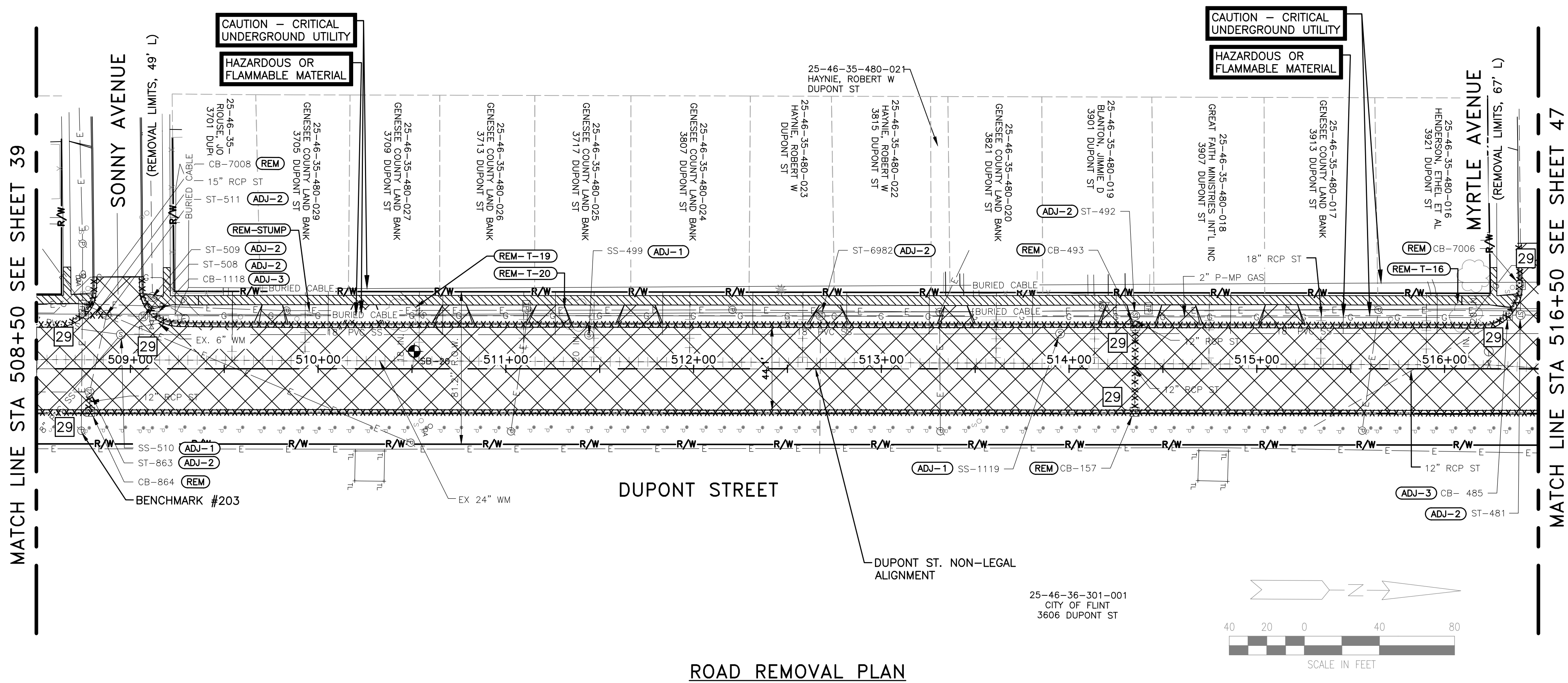
42



555 S. Saginaw Street, Suite 201
Flint, MI 48502
810.225.2535
www.wadetrims.com

MATCH LINE STA 508+50 SEE SHEET 39

MATCH LINE STA 508+50 SEE SHEET 39



PROPOSED DRAINAGE STRUCTURES						
STR NO	STATION	OFFSET	SIZE	RIM	COVER TYPE	PIPE DIRECTION, SIZE, AND INVERT
CB-6	508+57.69	22.7' R	24"	778.51	K	NW 12" 774.73
CB-5	508+57.69	22.7' L	24"	778.51	K	NW 12" 774.00
ST-863	508+78.29	12.4' R				SE 12" 774.62
CB-7	508+81.09	41.3' L	48"	778.00	K	NE 12" 773.85
ST-511	508+87.33	28.7' L				SW 12" 773.72
CB-8	509+05.76	41.5' L	24"	777.96	K	E 12" 774.00
ST-508	509+06.90	27.9' L				W 12" 773.80
CB-10	514+35.00	22.7' R	24"	776.66	K	W 12" 772.60

PROPOSED DRAINAGE STRUCTURES						
STR NO	STATION	OFFSET	SIZE	RIM	COVER TYPE	PIPE DIRECTION, SIZE, AND INVERT
ST-492	514+35.19	28.2' L				E 12" 771.34
CB-9	514+35.21	22.7' L	48"	776.65	K	E 12" 771.40
ST-481	516+40.51	28.7' L				W 12" 770.54
CB-11	516+40.60	44.7' L	48"	774.64	K	E 12" 770.64

JOB NO. JN200906

BENCHMARK 203
DESCRIPTION: SET GEAR SPIKE IN LIGHT POLE
LOCATED IN WEST FACE OF LIGHT POLE EAST
SIDE OF DUPONT ST. AND +/- 15' SOUTH OF
THE EXTENDED CENTERLINE OF SUNNY AVE.
NORTHING: 564940.899
EASTING: 13297972.048
1. ELEVATION: 779.017

MAINLINE QUANTITIES - THIS SHEET		
	JN 200906	
	CAT 0001	
ITEM	QUANTITY	UNIT
Dr Structure, Rem	5	EA
Sewer, Rem, Less than 24 inch	70	FT
Sidewalk, Rem	443	SYD
Pavt, Rem, Modified	4598	SYD
Tree Rem, 6 inch to 18 inch	1	EA
Tree Rem, 19 inch to 36 inch	2	EA
Stump, Rem, 6 inch to 18 inch	1	EA
Embankment, CIP	137	CYD
Excavation, Earth	1651	CYD
Aggregate Base, 6 inch	725	SYD
Aggregate Base, 12 inch	3911	SYD
Sewer, CL E, 12 inch, tr Det B	79	FT
Sewer Bulkhead, 15 inch	1	EA
Dr Structure Cover, Adj, Case 1	12	EA
Dr Structure Cover, Type B	10	EA
Dr Structure Cover, Type K	9	EA
Dr Structure, 24 inch dia	4	EA
Dr Structure, 48 inch dia	3	EA
Dr Structure, Adj, Add Depth	1	FT
Dr Structure, Tap, 12 inch	5	EA
Underdrain, Subbase, 6 inch	1555	FT
Hand Patching	10	TON
HMA, 3E1	678	TON
HMA, 4E1	452	TON
HMA, 5E1	339	TON
HMA Approach	24	TON
Driveway, Nonreinf Conc, 6 inch	207	SYD
Curb and Gutter, Conc, Det F4	1555	FT
Curb Ramp Opening, Conc	30	FT
Sidewalk Ramp, Conc, 6 inch	235	SFT
Sidewalk, Conc, 4 inch	2514	SFT
Sidewalk, Conc, 6 inch	1179	SFT
Detectable Warning Surface, Modified	30	FT
Turf Establishment, Performance	1333	SYD

DRIVEWAY QUANTITIES - THIS SHEET				
STA	SIDE	HOUSE #	PAVT, REM, MODIFIED (SYD)	AGGREGATE BASE, 6 INCH (SYD)
509+76	L	3705	16	18
510+25	L	3709	19	19
510+73	L	3713	19	20
511+24	L	3717	21	22
511+71	L	3807	22	24
512+73	L	3815	19	18
513+40	L	3821	17	19
514+25	L	3901	16	18
514+58	L	3907	24	26
515+13	L	3913	24	25



- NOTES:
- WHERE STRUCTURE ADJ-1, ADJ-2, ADJ-3, ADJ-5 AND ADJ-6 ARE INDICATED ON THE PLANS, NUMBERS 1, 2, 3, 5 AND 6 CORRESPOND TO CITY OF FLINT CASTING DETAIL NUMBERS CF-1, CF-2, CF-3, CF-5, CF-6 RESPECTIVELY. THE STRUCTURES ARE TO BE ADJUSTED TO FINAL GRADE WITH NEW STRUCTURE FRAMES AND COVERS AS INDICATED ON THE LEGEND SHEET AND THE CITY OF FLINT CASTING DETAILS SHEET. CASTINGS CF-1, CF-2, CF-6 ARE PAID FOR AS PAY ITEM "DR STRUCTURE COVER, TYPE B". CASTINGS CF-3 ARE PAID FOR AS PAY ITEM "DR STRUCTURE COVER, TYPE K". CASTING CF-5 IS PAID FOR AS "DR STRUCTURE COVER, TYPE G". ALL OTHER STRUCTURE COVER TYPES WILL REFER TO MDOT STANDARD PLANS.
 - EXISTING STORM STRUCTURES THAT ARE TO BE TAPPED WITH A PROPOSED STORM SEWER ARE INDICATED IN THE STRUCTURE TABLE AS ST-###. THE "ST" INDICATES STRUCTURE TAP AND THE NUMBER (###) INDICATES THE EXISTING STORM STRUCTURE WHICH IS BEING TAPPED.
 - WHERE PIPES ARE DESIGNATED FOR REMOVAL, THEY ARE TO BE REMOVED TO AN EXISTING STRUCTURE WHICH WILL REMAIN IN PLACE. THE PIPE OPENING IN THE STRUCTURE SHALL BE REPAIRED/BULK HEADED WITH BRICK AND MORTAR AS APPROVED BY THE ENGINEER.
 - MDOT SOIL EROSION CONTROL MEASURE 29 IS INDICATED IN THE TOP PORTION OF THE SHEET FOR EXISTING STORM STRUCTURES WHICH ARE TO BE PROTECTED. SOIL EROSION CONTROL MEASURE 29 SHALL ALSO BE APPLIED TO EACH PROPOSED STORM CATCH BASIN WHICH IS INDICATED IN THE STRUCTURE TABLE AS CB-##.
 - WHERE CATCH BASIN RIM ELEVATIONS ARE INDICATED ON THESE PLANS, THE ELEVATION LISTED REPRESENTS THE EDGE OF PAVEMENT ELEVATION.
 - FOR ADDITIONAL CURB RADIUS INFORMATION AND DETAILED INTERSECTION GRADING, REFER TO THE DETAILED INTERSECTION GRADING SHEETS.

ISSUED FOR: DATE: BY: GJ PLANS 10/25/18 JUS FINAL REVIEW 2/25/19 JUS FINAL PLANS 4/19/19 JUS

JOB NO. COF1065.01F

SHEET 43

CITY OF FLINT

1101 SOUTH SAGINAW STREET

FLINT, MI 48502

DUPONT STREET - NORTH

DUPONT NORTH PLAN AND REMOVAL SHEET 2

WADE TRIM

555 S. Saginaw Street, Suite 201
Flint, MI 48502
810.225.2535
www.wadetrims.com

BY

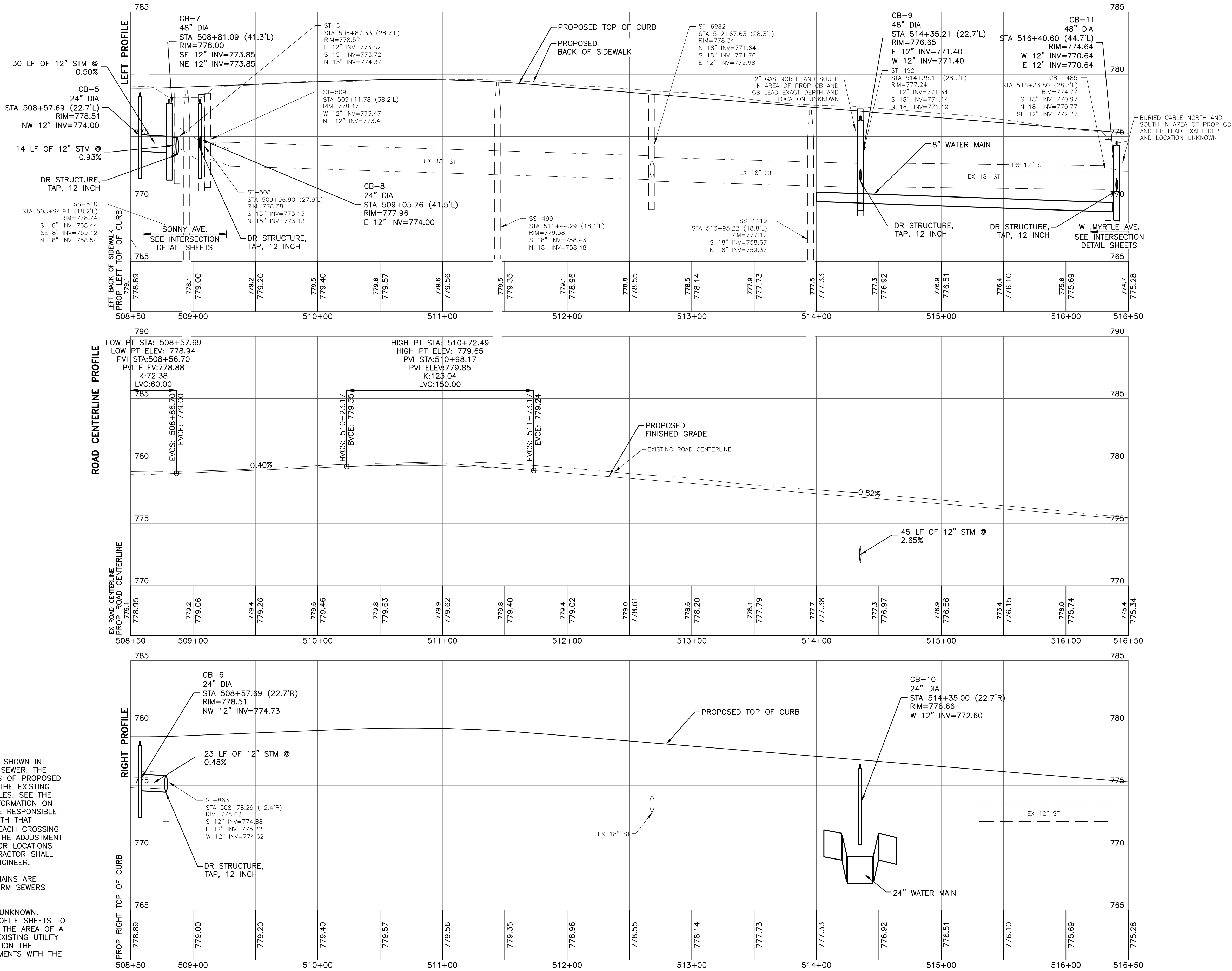
DATE

REV#

DESCRIPTION

PROJECT MANAGER: C:\PL\WORK\2\0652519\CRP-PLS-PROFILE.DWG - PROF. 2 - PLOTTED: 4/19/2019 1:30 PM BY: WHEELER, THOMAS

- NOTES:
- PORTIONS OF THE PROPOSED WATER MAINS HAVE BEEN SHOWN IN PROFILE VIEW WHERE CROSSING THE PROPOSED STORM SEWER. THE PROPOSED HYDRANT LEADS AND WATER MAIN CROSSINGS OF PROPOSED STORM SEWERS AT EACH SIDE STREET CONNECTION TO THE EXISTING WATER MAINS HAVE NOT BEEN SHOWN ON THESE PROFILES. SEE THE WATER MAIN CONSTRUCTION SHEETS FOR ADDITIONAL INFORMATION ON WATER MAIN CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING THE PROPOSED WATER MAIN AT A DEPTH THAT MAINTAINS A MINIMUM OF 18" VERTICAL CLEARANCE AT EACH CROSSING OF THE PROPOSED STORM SEWER. IF THIS REQUIRES THE ADJUSTMENT OF PROPOSED WATER MAIN OR STORM SEWER DEPTHS OR LOCATIONS FROM WHAT IS PROPOSED ON THESE PLANS, THE CONTRACTOR SHALL COORDINATE THESE ADJUSTMENTS WITH THE PROJECT ENGINEER.
 - THE EXACT LOCATION AND DEPTH OF EXISTING WATER MAINS ARE UNKNOWN AND THEIR CROSSING OF THE PROPOSED STORM SEWERS HAVE NOT BEEN SHOWN ON THESE PROFILES
 - EXISTING PRIVATE UTILITY LOCATIONS AND DEPTHS ARE UNKNOWN. WHERE POSSIBLE A NOTE HAS BEEN ADDED TO THE PROFILE SHEETS TO POINT OUT THAT THERE MAY BE A UTILITY CROSSING IN THE AREA OF A PROPOSED STRUCTURE. IF A CONFLICT BETWEEN ANY EXISTING UTILITY AND A PROPOSED UTILITY IS FOUND DURING CONSTRUCTION THE CONTRACTOR SHALL COORDINATE ANY REQUIRED ADJUSTMENTS WITH THE PROJECT ENGINEER.



JOB NO. JN200906



555 S. Saginaw Street, Suite 201
Flint, MI 48502
810.285.2655
www.wadetrim.com

CITY OF FLINT
1101 SOUTH SAGINAW STREET
FLINT, MI 48502
DUPONT STREET - NORTH
DUPONT NORTH PROFILE 2

ISSUED FOR: DATE: BY:
GI PLANS 10/25/18 JUS
FINAL REVIEW 2/25/19 JUS
FINAL PLANS 4/19/19 JUS

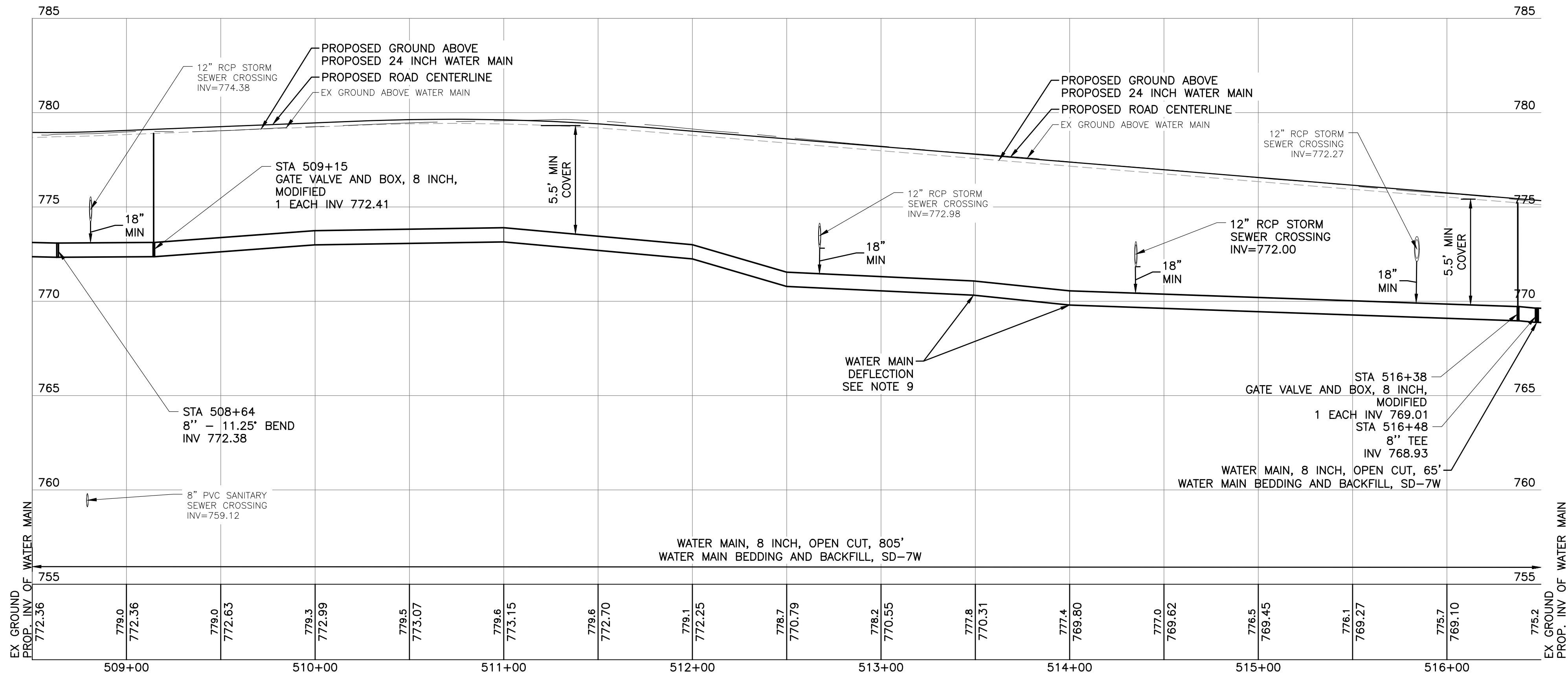
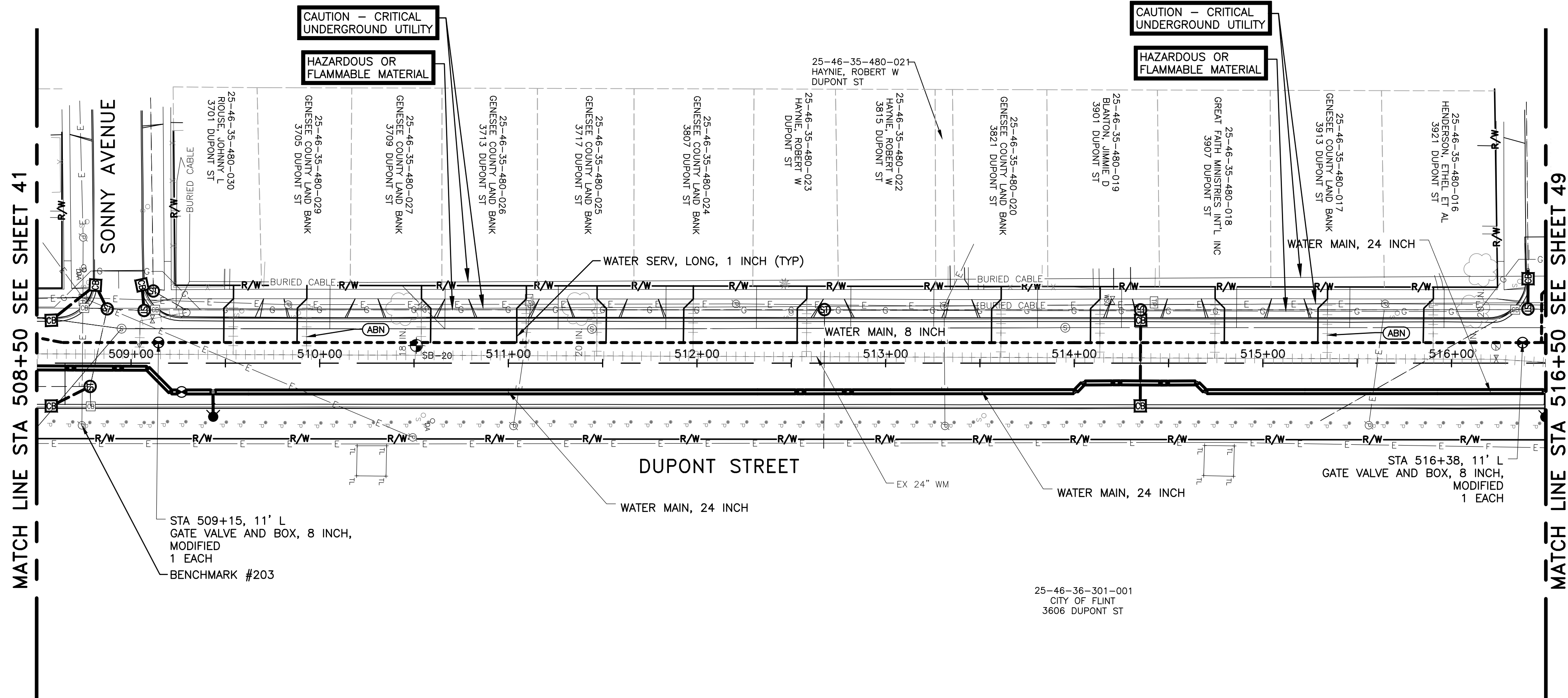
JOB NO.
COF1065.01F

SHEET

44

© Wade Trim Group, Inc.

PROJECT MANAGER: C:\P\WORK\210652519\CRP-PLTS-WATERMAINPHASE1.DWG - 33 DUPONT NORTH WM 8 INCH P&P SHEET 2 - PLOTTED 4/18/2019 12:00 PM BY: RUGGLES, TIMOTHY



SEE NEXT SHEET FOR 24" WATER MAIN INFORMATION

- NOTES:
1. WATER MAIN SHALL BE TESTED IN ACCORDANCE WITH AWWA C600-10, AND CHLORINATED IN ACCORDANCE WITH THE LATEST THE CITY OF FLINT STANDARDS AND THE WATER MAIN SPECIAL PROVISIONS. ALL TESTING SHALL BE OBSERVED AND MONITORED BY FLINT.
 2. THE CONTRACTOR SHALL INSTALL, AS A MINIMUM, 2" CORPORATIONS ON THE PRESSURE PIPE FOR PRESSURE TESTING, CHLORINE ADDITION, AND FOR BLOW-OFF PURPOSES. THE CONTRACTOR SHALL REMOVE THE CORPORATIONS AND COPPER LINES UPON A SATISFACTORY TEST AND INSTALL COPPER THREADED PLUGS PRIOR TO FINAL ACCEPTANCE.
 3. WATER MAIN SHALL HAVE AT LEAST 10' OF HORIZONTAL SEPARATION AND 18" VERTICAL FROM ANY SANITARY OR STORM SEWER.
 4. GATE VALVES AT THE END OF LINES SHALL HAVE ONE PIPE LENGTH ADDED PRIOR TO ENDING WITH A HYDRANT.
 5. A MINIMUM OF 5.5- FEET OF COVER SHALL BE ACHIEVED OVER THE WATER MAIN AT ALL TIMES.
 6. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING WATER MAIN SIZE AND LOCATIONS PRIOR TO CONNECTION.
 7. ALL BACKFILL SHALL BE IN ACCORDANCE WITH THE CITY OF FLINT DETAIL SD-7W.
 8. REMOVE EXISTING HYDRANTS AS INDICATED ON THE PLANS. CONTRACTOR SHALL CLEARLY DESIGNATE WHEN THE EXISTING HYDRANT IS OUT OF SERVICE.
 9. DEFLECT WATER MAIN AS NOTED ON THE PLANS. DEFLECT WATER MAIN NO MORE THAN ONE-HALF OF THE MANUFACTURER'S RECOMMENDED MAXIMUM DEFLECTION FOR EACH JOINT. IF NEEDED, USE BENDS TO MAKE DEFLECTIONS. ADDITIONAL BENDS ARE INCIDENTAL TO WATER MAIN, _INCH, OPEN CUT.

BENCHMARK 203
DESCRIPTION: SET GEAR SPIKE IN LIGHT POLE
LOCATED IN WEST FACE OF LIGHT POLE EAST
SIDE OF DUPONT ST. AND +/- 15' SOUTH OF
THE EXTENDED CENTERLINE OF SUNNY AVE.
NORTHING: 564940.899
EASTING: 13297972.048
1. ELEVATION: 779.017

QUANTITIES THIS SHEET

ITEM	QUANTITY	UNIT
Gate Valve and Box, 8 inch, Modified	2	EA
Hydrant, Rem, Modified	1	EA
Water Main, 8 inch, Open Cut	805	FT
Water Main Bedding and Backfill, SD-7W	805	FT
Water Serv, Long, 1 inch	12	EA
Water Structure, Abandon	1	EA



CITY OF FLINT
1101 SOUTH SAGINAW STREET
FLINT, MI 48502
DUPONT STREET - NORTH
DUPONT NORTH WM 8-INCH P&P SHEET 2

ISSUED FOR: DATE: BY:
GI PLANS 10/25/18 JUS
FINAL REVIEW 2/25/19 JUS
FINAL PLANS 4/19/19 JUS

JOB NO.
COF1065.01F

SHEET

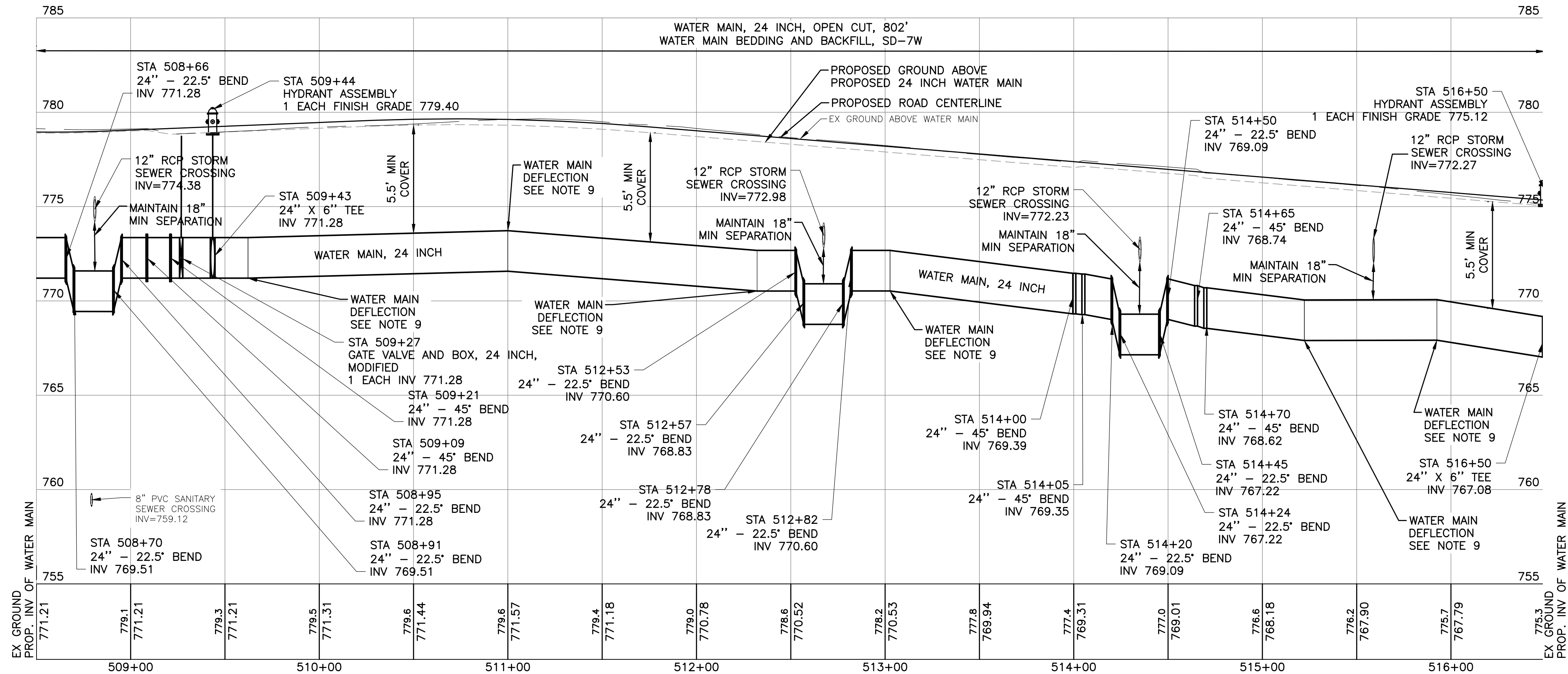
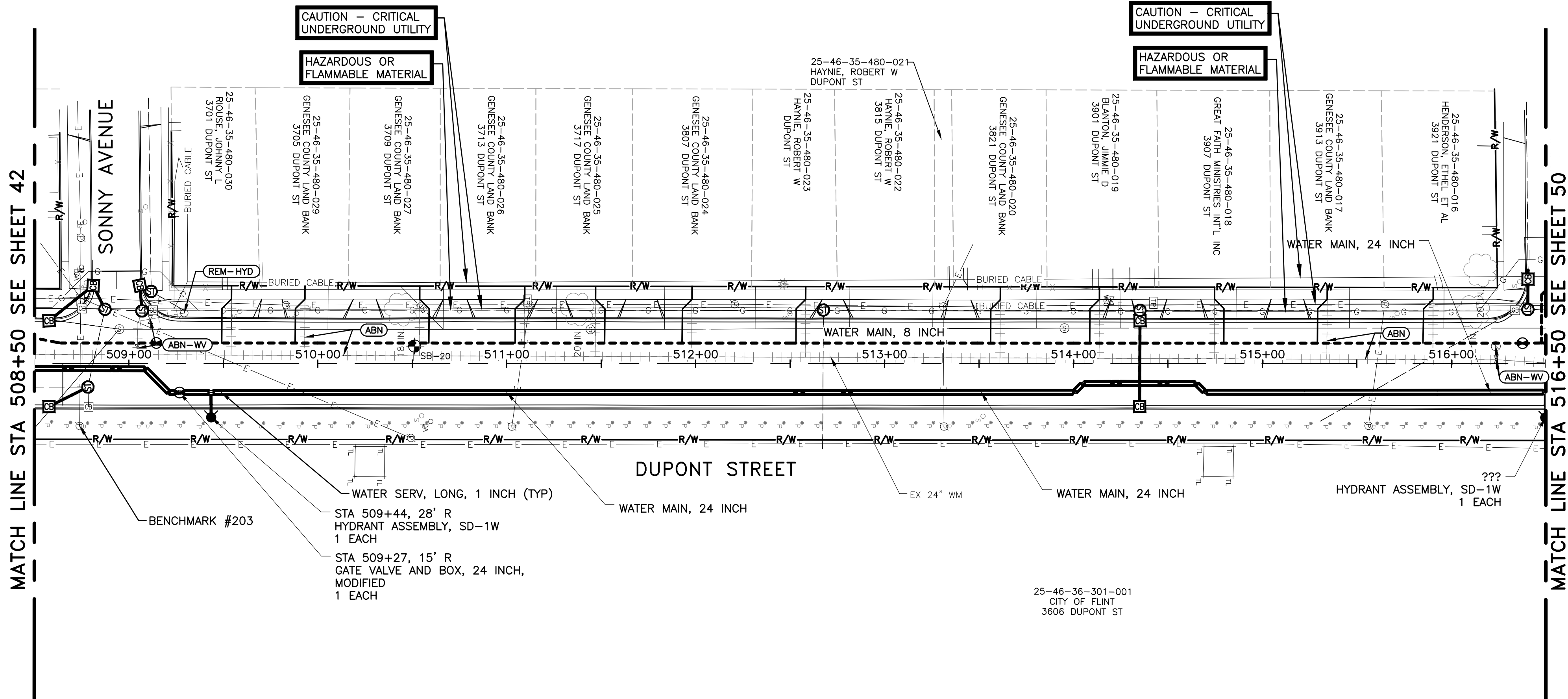
45



Know what's below.
Call before you dig.

JOB NO. JN200906

PROJECT MANAGER: C:\P\WORK\210652519\CRP-PLTS-WATERMAINPHASE2.DWG - 33 DUPONT NORTH WM 24-INCH P&P SHEET 2 - PLOTTED 4/18/2019 12:01 PM BY RUGGLES, TIMOTHY

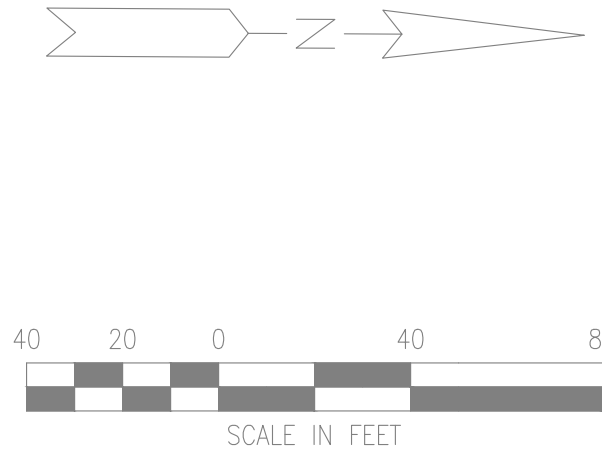


QUANTITIES THIS SHEET		
ITEM	QUANTITY	UNIT
Gate Valve and Box, 24 inch, Modified	1	EA
Hydrant, Rem, Modified	1	EA
Hydrant Assembly, SD-1W	2	EA
Water Main, 24 inch, Open Cut	802	FT
Water Main Bedding and Backfill, SD-7W	802	FT
Water Serv, Long, 1 inch	12	EA
Water Structure, Abandon	4	EA

- NOTES:
1. WATER MAIN SHALL BE TESTED IN ACCORDANCE WITH AWWA C600-10, AND CHLORINATED IN ACCORDANCE WITH THE LATEST THE CITY OF FLINT STANDARDS AND THE WATER MAIN SPECIAL PROVISIONS. ALL TESTING SHALL BE OBSERVED AND MONITORED BY FLINT.
 2. THE CONTRACTOR SHALL INSTALL, AS A MINIMUM, 2" CORPORATIONS ON THE PRESSURE PIPE FOR PRESSURE TESTING, CHLORINE ADDITION, AND FOR BLOW-OFF PURPOSES. THE CONTRACTOR SHALL REMOVE THE CORPORATIONS AND COPPER LINES UPON A SATISFACTORY TEST AND INSTALL COPPER THREADED PLUGS PRIOR TO FINAL ACCEPTANCE.
 3. WATER MAIN SHALL HAVE AT LEAST 10' OF HORIZONTAL SEPARATION AND 18" VERTICAL FROM ANY SANITARY OR STORM SEWER.
 4. GATE VALVES AT THE END OF LINES SHALL HAVE ONE PIPE LENGTH ADDED PRIOR TO ENDING WITH A HYDRANT.
 5. A MINIMUM OF 5.5- FEET OF COVER SHALL BE ACHIEVED OVER THE WATER MAIN AT ALL TIMES.
 6. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING WATER MAIN SIZE AND LOCATIONS PRIOR TO CONNECTION.
 7. ALL BACKFILL SHALL BE IN ACCORDANCE WITH THE CITY OF FLINT DETAIL SD-7W.
 8. REMOVE EXISTING HYDRANTS AS INDICATED ON THE PLANS. CONTRACTOR SHALL CLEARLY DESIGNATE WHEN THE EXISTING HYDRANT IS OUT OF SERVICE.
 9. DEFLECT WATER MAIN AS NOTED ON THE PLANS. DEFLECT WATER MAIN NO MORE THAN ONE-HALF OF THE MANUFACTURER'S RECOMMENDED MAXIMUM DEFLECTION FOR EACH JOINT. IF NEEDED, USE BENDS TO MAKE DEFLECTIONS. ADDITIONAL BENDS ARE INCIDENTAL TO WATER MAIN, _INCH, OPEN CUT.

SEE PREVIOUS SHEET FOR 8" WATER MAIN INFORMATION

BENCHMARK 203
DESCRIPTION: SET GEAR SPIKE IN LIGHT POLE
LOCATED IN WEST FACE OF LIGHT POLE EAST
SIDE OF DUPONT ST. AND +/- 15' SOUTH OF
THE EXTENDED CENTERLINE OF SUNNY AVE.
NORTHING: 564940.899
EASTING: 13297972.048
1. ELEVATION: 779.017



ISSUED FOR: DATE: BY:
GI PLANS 10/25/18 JUS
FINAL REVIEW 2/25/19 JUS
FINAL PLANS 4/19/19 JUS

811
Know what's below.
Call before you dig.

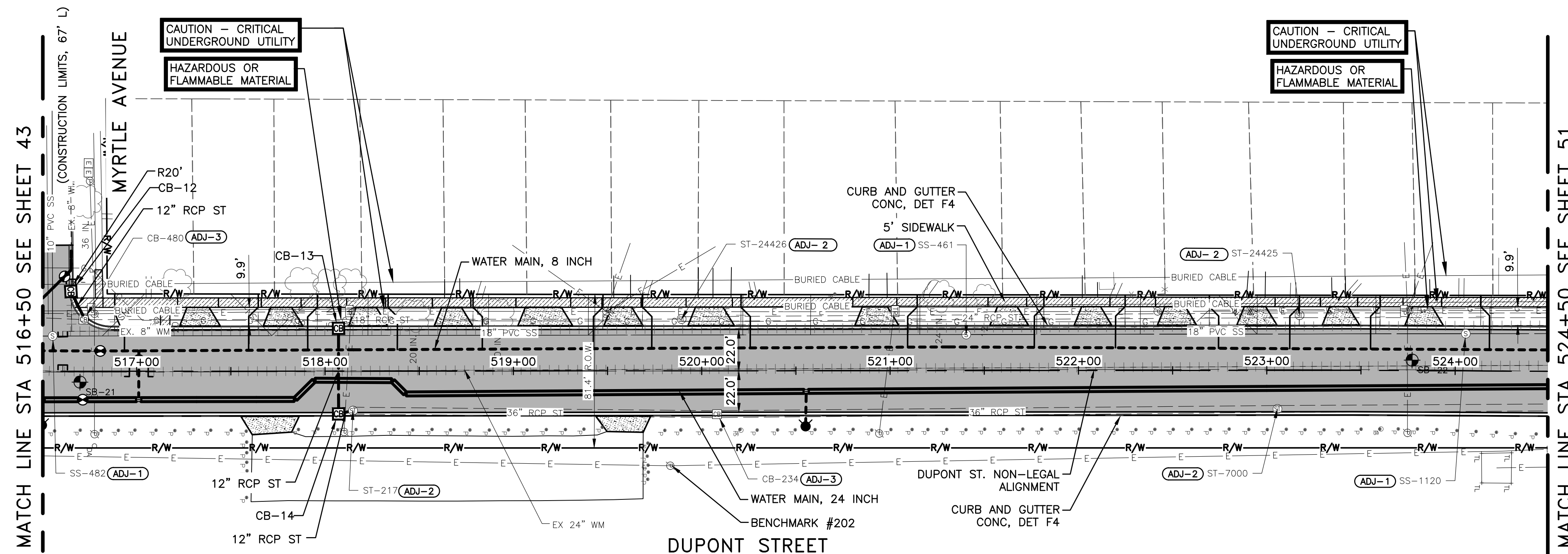
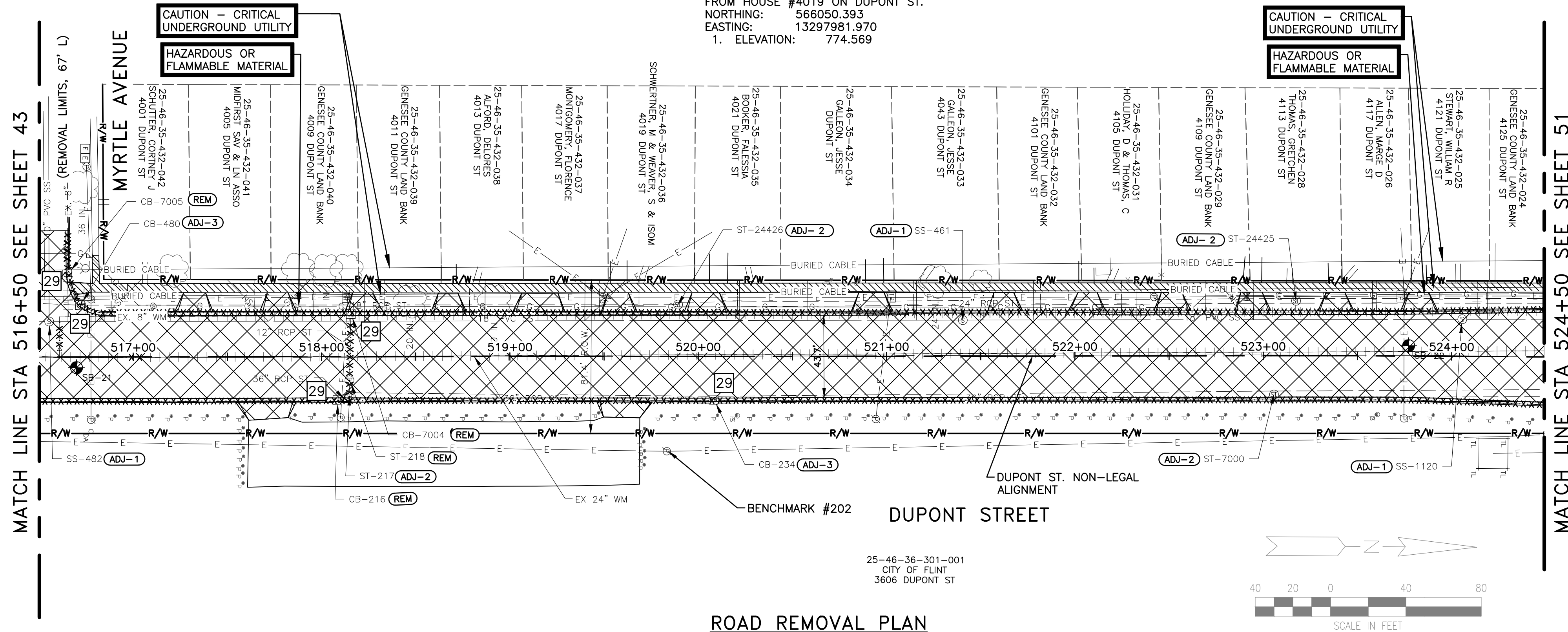
1101 SOUTH SAGINAW STREET
FLINT, MI 48502
DUPONT STREET - NORTH
DUPONT NORTH WM 24-INCH P&P SHEET 2

COF1065.01F

46

© Wade Trim Group, Inc.

BENCHMARK 202
DESCRIPTION: SET GEAR SPIKE IN POWER POLE
LOCATED IN WEST FACE OF POWER POLE ACROSS
FROM HOUSE #4019 ON DUPONT ST.
NORTHING: 566050.393
EASTING: 13297981.970
1. ELEVATION: 774.569



MAINLINE QUANTITIES – THIS SHEET		
	JN 200906	
	CAT 0001	
ITEM	QUANTITY	UNIT
Dr Structure, Rem	5	EA
Sewer, Rem, Less than 24 inch	62	FT
Sewer, Rem, 24 inch to 48 inch	5	FT
Sidewalk, Rem	447	SYD
Pavt, Rem, Modified	4646	SYD
Embankment, CIP	173	CYD
Excavation, Earth	1443	CYD
Aggregate Base, 6 inch	836	SYD
Aggregate Base, 12 inch	3911	SYD
Sewer, CL E, 12 inch, Tr Det B	68	FT
Sewer Bulkhead, 36 inch	1	EA
Dr Structure Cover, Adj, Case 1	9	EA
Dr Structure Cover, Type B	7	EA
Dr Structure Cover, Type K	5	EA
Dr Structure, 24 inch dia	2	EA
Dr Structure, 48 inch dia	1	EA
Dr Structure, Adj, Add Depth	1	FT
Dr Structure, Tap, 12 inch	2	EA
Underdrain, Subbase, 6 inch	1597	FT
Hand Patching	10	TON
HMA, 3E1	700	TON
HMA, 4E1	467	TON
HMA, 5E1	350	TON
HMA Approach	27	TON
Driveway, Nonreinfc Conc, 6 inch	304	SYD
Curb and Gutter, Conc, Det F4	1597	FT
Curb Ramp Opening, Conc	30	FT
Sidewalk Ramp, Conc, 6 inch	82	SFT
Sidewalk, Conc, 4 inch	2439	SFT
Sidewalk, Conc, 6 inch	1523	SFT
Detectable Warning Surface, Modified	25	FT
Turf Establishment, Performance	1333	SYD

DRIVEWAY QUANTITIES – THIS SHEET					
STA	SIDE	HOUSE #	PAVT, REM, MODIFIED (SYD)	DRIVEWAY, NONREINF CONC, 6 INCH (SYD)	AGGREGATE BASE, 6 INCH (SYD)
517+33	L	4001	18	18	18
517+72	R	3606	26	26	26
517+77	L	4009	17	18	18
518+22	L	4011	17	17	17
518+67	L	4013	16	17	17
519+16	L	4017	26	26	26
519+67	L	4019	16	17	17
519+59	R	3606	22	23	23
520+04	L	4021	21	21	21
520+92	L	4043	19	20	20
521+62	L	4101	16	17	17
522+07	L	4105	16	16	16
522+51	L	4109	17	17	17
522+94	L	4113	17	18	18
523+38	L	4117	16	16	16
523+82	L	4121	16	17	17

PROPOSED DRAINAGE STRUCTURES							
STR NO	STATION	OFFSET	SIZE	RIM	COVER TYPE	PIPE DIRECTION, SIZE, AND INVERT	DISTANCE TO DOWN STREAM STR
CB-12	516+65.14	42.4' L	24"	774.10	K	NE 12" 770.65	16.37' ST-480
ST-480	516+72.45	27.8' L				SW 12" 770.50	
CB-13	518+07.18	22.7' L	24"	774.02	K	E 12" 770.60	45.40' CB-14
CB-14	518+07.18	22.7' R	48"	774.02	K	W 12" 770.38 N 12" 769.18	7.88' ST-217
ST-217	518+14.87	21.0' R				S 12" 769.14	

NOTES:

1. WHERE STRUCTURE ADJ-1, ADJ-2, ADJ-3, ADJ-5 AND ADJ-6 ARE INDICATED ON THE PLANS, NUMBERS 1, 2, 3, 5 AND 6 CORRESPOND TO CITY OF FLINT CASTING DETAIL NUMBERS CF-1, CF-2, CF-3, CF-5, CF-6 RESPECTIVELY. THE STRUCTURES ARE TO BE ADJUSTED TO FINAL GRADE WITH NEW STRUCTURE FRAMES AND COVERS AS INDICATED ON THE LEGEND SHEET AND THE CITY OF FLINT CASTING DETAILS SHEET. CASTINGS CF-1, CF-2, CF-6 ARE PAID FOR AS PAY ITEM "DR STRUCTURE COVER, TYPE B". CASTINGS CF-3 ARE PAID FOR AS PAY ITEM "DR STRUCTURE COVER, TYPE K". CASTING CF-5 IS PAID FOR AS "DR STRUCTURE COVER, TYPE G". ALL OTHER STRUCTURE COVER TYPES WILL REFER TO MDOT STANDARD PLANS.
2. EXISTING STORM STRUCTURES THAT ARE TO BE TAPPED WITH A PROPOSED STORM SEWER ARE INDICATED IN THE STRUCTURE TABLE AS ST-###. THE "ST" INDICATES STRUCTURE TAP AND THE NUMBER (###) INDICATES THE EXISTING STORM STRUCTURE WHICH IS BEING TAPPED.
3. WHERE PIPES ARE DESIGNATED FOR REMOVAL, THEY ARE TO BE REMOVED TO AN EXISTING STRUCTURE WHICH WILL REMAIN IN PLACE. THE PIPE OPENING IN THE STRUCTURE SHALL BE REPAIRED/BULK HEADED WITH BRICK AND MORTAR AS APPROVED BY THE ENGINEER.
4. MDOT SOIL EROSION CONTROL MEASURE 29 IS INDICATED IN THE TOP PORTION OF THE SHEET FOR EXISTING STORM STRUCTURES WHICH ARE TO BE PROTECTED. SOIL EROSION CONTROL MEASURE 29 SHALL ALSO BE APPLIED TO EACH PROPOSED STORM CATCH BASIN WHICH IS INDICATED IN THE STRUCTURE TABLE AS CB-##.
5. WHERE CATCH BASIN RIM ELEVATIONS ARE INDICATED ON THESE PLANS, THE ELEVATION LISTED REPRESENTS THE EDGE OF PAVEMENT ELEVATION.
6. FOR ADDITIONAL CURB RADIUS INFORMATION AND DETAILED INTERSECTION GRADING, REFER TO THE DETAILED INTERSECTION GRADING SHEETS.

811
Know what's below.
Call before you dig.

CITY OF FLINT
1101 SOUTH SAGINAW STREET
FLINT, MI 48502
DUPONT STREET - NORTH
DUPONT NORTHPLAN AND REMOVAL SHEET 3

ISSUED FOR:	DATE:	BY:
GI PLANS	10/25/18	JJS
FINAL REVIEW	2/25/19	JJS
FINAL PLANS	4/19/19	JJS

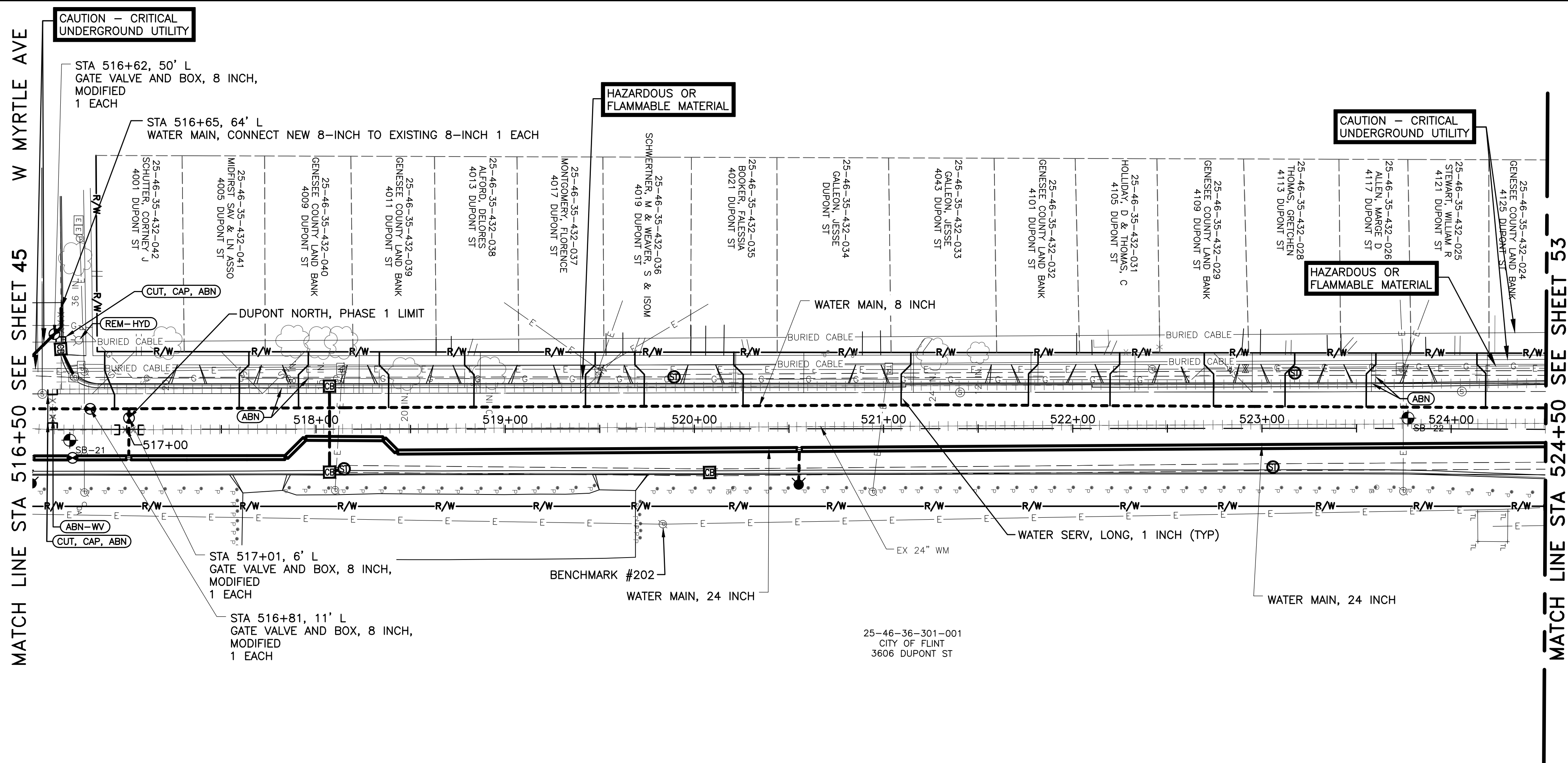
JOB NO.
COF1065.01F

SHEET

47

© Wade Trim Group, Inc.

PROJECT MANAGER: C:\P\WORK\210652519\CRP-PLTS-WATERMAINPHASE1.DWG - 36 DUPONT NORTH WM 8 INCH P&P SHEET 3 - PLOTTED 4/18/2019 12:06 PM BY: RUGGLES, TIMOTHY



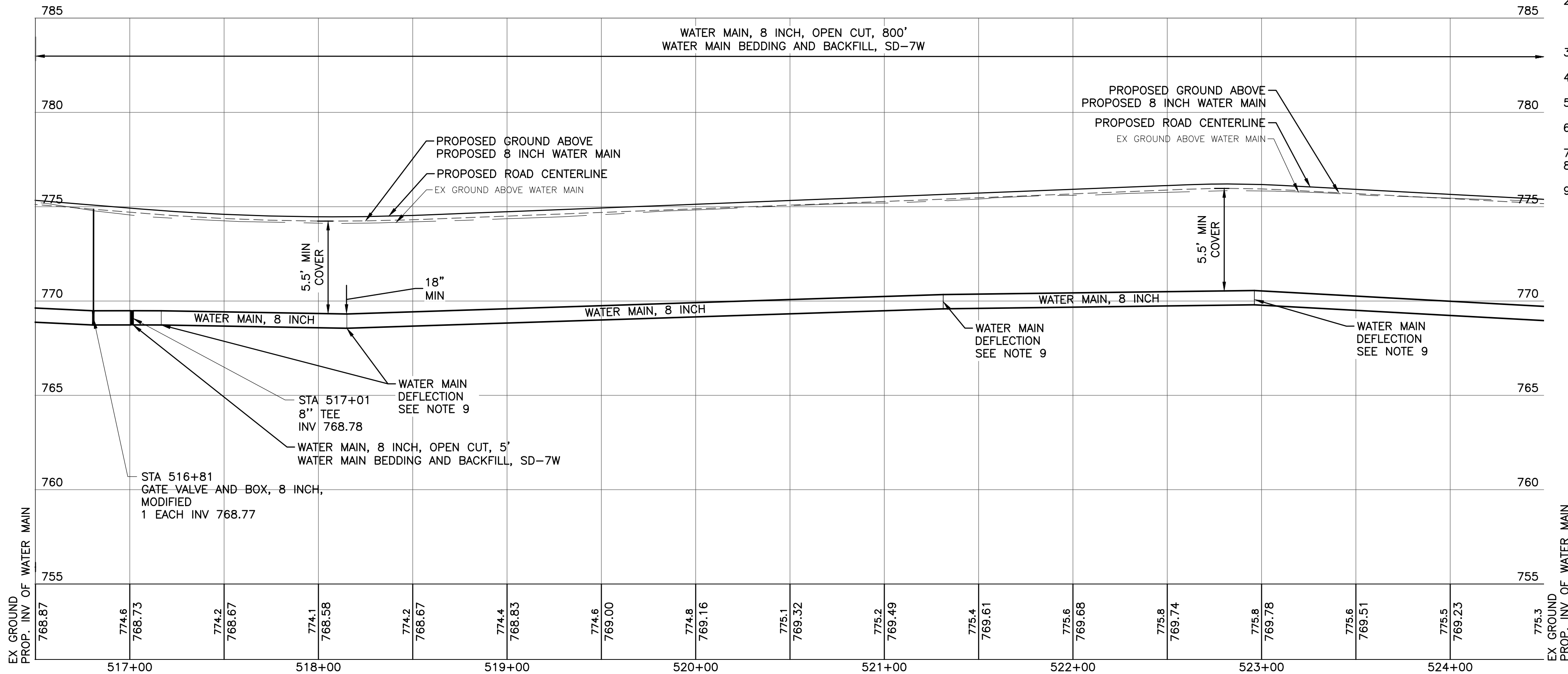
QUANTITIES THIS SHEET

ITEM	QUANTITY	UNIT
Gate Valve and Box, 8 inch, Modified	3	EA
Water Main, 8 inch, Open Cut	805	FT
Water Main Bedding and Backfill, SD-7W	805	FT
Water Main, Connect New 8 inch to Existing 8 inch	1	EA
Water Main, 8 inch, Cut and Plug, Modified	3	EA
Water Main, Rem	30	FT
Water Serv, Long, 1 inch	15	EA
Water Structure, Abandon	1	EA

NOTES:

1. WATER MAIN SHALL BE TESTED IN ACCORDANCE WITH AWWA C600-10, AND CHLORINATED IN ACCORDANCE WITH THE LATEST THE CITY OF FLINT STANDARDS AND THE WATER MAIN SPECIAL PROVISIONS. ALL TESTING SHALL BE OBSERVED AND MONITORED BY FLINT.
2. THE CONTRACTOR SHALL INSTALL, AS A MINIMUM, 2" CORPORATIONS ON THE PRESSURE PIPE FOR PRESSURE TESTING, CHLORINE ADDITION, AND FOR BLOW-OFF PURPOSES. THE CONTRACTOR SHALL REMOVE THE CORPORATIONS AND COPPER LINES UPON A SATISFACTORY TEST AND INSTALL COPPER THREADED PLUGS PRIOR TO FINAL ACCEPTANCE.
3. WATER MAIN SHALL HAVE AT LEAST 10' OF HORIZONTAL SEPARATION AND 18" VERTICAL FROM ANY SANITARY OR STORM SEWER.
4. GATE VALVES AT THE END OF LINES SHALL HAVE ONE PIPE LENGTH ADDED PRIOR TO ENDING WITH A HYDRANT.
5. A MINIMUM OF 5.5- FEET OF COVER SHALL BE ACHIEVED OVER THE WATER MAIN AT ALL TIMES.
6. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING WATER MAIN SIZE AND LOCATIONS PRIOR TO CONNECTION.
7. ALL BACKFILL SHALL BE IN ACCORDANCE WITH THE CITY OF FLINT DETAIL SD-7W.
8. REMOVE EXISTING HYDRANTS AS INDICATED ON THE PLANS. CONTRACTOR SHALL CLEARLY DESIGNATE WHEN THE EXISTING HYDRANT IS OUT OF SERVICE.
9. DEFLECT WATER MAIN AS NOTED ON THE PLANS. DEFLECT WATER MAIN NO MORE THAN ONE-HALF OF THE MANUFACTURER'S RECOMMENDED MAXIMUM DEFLECTION FOR EACH JOINT. IF NEEDED, USE BENDS TO MAKE DEFLECTIONS. ADDITIONAL BENDS ARE INCIDENTAL TO WATER MAIN, _INCH, OPEN CUT.

SEE NEXT SHEET FOR 24" WATER MAIN INFORMATION



JOB NO. JN200906



Know what's below.
Call before you dig.



CITY OF FLINT
1101 SOUTH SAGINAW STREET
FLINT, MI 48502
DUPONT STREET - NORTH
DUPONT NORTH WM 8-INCH P&P SHEET 3

ISSUED FOR: DATE: BY:
GI PLANS 10/25/18 JUS
FINAL REVIEW 2/25/19 JUS
FINAL PLANS 4/19/19 JUS

JOB NO.
COF1065.01F

SHEET

49

© Wade Trim Group, Inc.

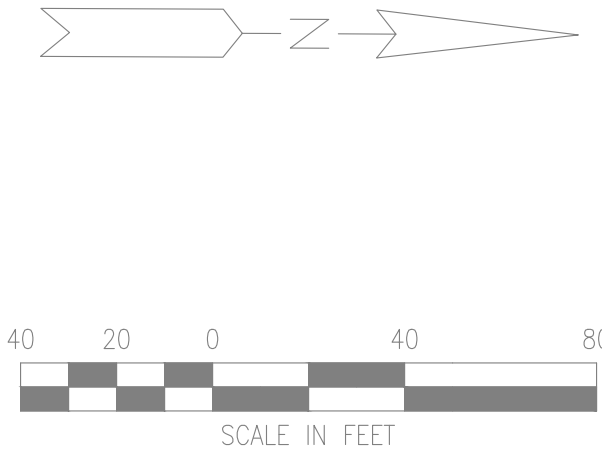
CAUTION — CRITICAL UNDERGROUND UTILITY

HAZARDOUS OR FLAMMABLE MATERIAL

CAUTION — CRITICAL UNDERGROUND UTILITY

HAZARDOUS OR FLAMMABLE MATERIAL

BENCHMARK 202
DESCRIPTION: SET GEAR SPIKE IN POWER POLE
LOCATED IN WEST FACE OF POWER POLE ACROSS
FROM HOUSE #4019 ON DUPONT ST.
NORTHING: 566050.393
EASTING: 1329781.970
1. ELEVATION: 774.569



QUANTITIES THIS SHEET

ITEM	QUANTITY	UNIT
Gate Valve and Box, 24 inch, Modified	1	EA
Hydrant, Rem, Modified	1	EA
Hydrant Assembly, SD-1W	1	EA
Water Main, 24 inch, Cut and Plug, Modified	2	EA
Water Main, 24 inch, Open Cut	798	FT
Water Main, 8 inch, Open Cut	20	FT
Water Main Bedding and Backfill, SD-7W	818	FT
Water Main, Connect New 24 inch to Existing 8 inch	1	EA

- NOTES:
1. WATER MAIN SHALL BE TESTED IN ACCORDANCE WITH AWWA C600-10, AND CHLORINATED IN ACCORDANCE WITH THE LATEST THE CITY OF FLINT STANDARDS AND THE WATER MAIN SPECIAL PROVISIONS. ALL TESTING SHALL BE OBSERVED AND MONITORED BY FLINT.
 2. THE CONTRACTOR SHALL INSTALL, AS A MINIMUM, 2" CORPORATIONS ON THE PRESSURE PIPE FOR PRESSURE TESTING, CHLORINE ADDITION, AND FOR BLOW-OFF PURPOSES. THE CONTRACTOR SHALL REMOVE THE CORPORATIONS AND COPPER LINES UPON A SATISFACTORY TEST AND INSTALL COPPER THREADED PLUGS PRIOR TO FINAL ACCEPTANCE.
 3. WATER MAIN SHALL HAVE AT LEAST 10' OF HORIZONTAL SEPARATION AND 18" VERTICAL FROM ANY SANITARY OR STORM SEWER.
 4. GATE VALVES AT THE END OF LINES SHALL HAVE ONE PIPE LENGTH ADDED PRIOR TO ENDING WITH A HYDRANT.
 5. A MINIMUM OF 5.5- FEET OF COVER SHALL BE ACHIEVED OVER THE WATER MAIN AT ALL TIMES.
 6. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING WATER MAIN SIZE AND LOCATIONS PRIOR TO CONNECTION.
 7. ALL BACKFILL SHALL BE IN ACCORDANCE WITH THE CITY OF FLINT DETAIL SD-7W.
 8. REMOVE EXISTING HYDRANTS AS INDICATED ON THE PLANS. CONTRACTOR SHALL CLEARLY DESIGNATE WHEN THE EXISTING HYDRANT IS OUT OF SERVICE.
 9. DEFLECT WATER MAIN AS NOTED ON THE PLANS. DEFLECT WATER MAIN NO MORE THAN ONE-HALF OF THE MANUFACTURER'S RECOMMENDED MAXIMUM DEFLECTION FOR EACH JOINT. IF NEEDED, USE BENDS TO MAKE DEFLECTIONS. ADDITIONAL BENDS ARE INCIDENTAL TO WATER MAIN, _INCH, OPEN CUT.

SEE PREVIOUS SHEET FOR 8" WATER MAIN INFORMATION

555 S. Saginaw Street, Suite 201
Flint, MI 48502
810.225.2535
www.wadetrims.com



CITY OF FLINT
1101 SOUTH SAGINAW STREET
FLINT, MI 48502
DUPONT STREET - NORTH
DUPONT NORTH WM 24-INCH P&P SHEET 3

ISSUED FOR: DATE: BY:
GI PLANS 10/25/18 JUS
FINAL REVIEW 2/25/19 JUS
FINAL PLANS 4/19/19 JUS

JOB NO.
COF1065.01F

SHEET

50



Know what's below.
Call before you dig.

PROJECT MANAGER: C:\P\WORK\210652519\CRP-PLTS-WATERMAINPHASE2.DWG - 37 DUPONT NORTH WM 24-INCH P&P SHEET 3 - PLOTTED 4/18/2019 12:07 PM BY RUGGLES, TIMOTHY

JOB NO. JN200906



Know what's below.
Call before you dig.

MATCH LINE STA 524+50 SEE SHEET 47

MATCH LINE STA 524+50 SEE SHEET 47

MATCH LINE STA 532+50 SEE SHEET 55

MATCH LINE STA 532+50 SEE SHEET 55

PROPOSED DRAINAGE STRUCTURES						
STR NO	STATION	OFFSET	SIZE	RIM	COVER TYPE	PIPE DIRECTION, SIZE, AND INVERT
ST-448	526+47.32	16.9' R				E 12" 768.98
CB-15	526+49.00	23.7' R	24"	774.47	K	W 12" 769.20
CB-16	526+50.17	45.2' L	24"	773.50	K	NE 12" 770.05
ST-447	526+58.78	30.9' L				SW 12" 769.92
CB-17	526+75.36	45.8' L	24"	773.45	K	SE 12" 770.27
CB-18	529+03.26	30.5' R	24"	772.72	K	NE 12" 769.10
ST-324	529+12.11	17.2' R				NE 12" 768.30
CB-19	529+27.63	61.2' R	48"	773.04	K	NW 12" 768.80
CB-20	529+28.17	41.4' L	24"	772.33	K	N 12" 769.00

PROPOSED DRAINAGE STRUCTURES							
STR NO	STATION	OFFSET	SIZE	RIM	COVER TYPE	PIPE DIRECTION, SIZE, AND INVERT	DISTANCE TO DOWN STREAM STR
MH-1	529+36.63	55.5' R	72"	773.04	B	E 12" 769.38 SE 12" 768.60 SW 12" 768.60 NW 12" 768.70	45.45' ST-324
CB-21	529+69.82	43.5' L	48"	772.10	K	S 12" 768.60 N 12" 768.60	12.84' ST-425
CB-22	529+75.38	32.8' R	24"	772.18	K	SE 12" 769.00	44.55' MH-1
ST-425	529+82.18	47.0' L				S 12" 768.50	
CB-23	532+45.79	44.2' R	24"	773.43	K	NW 12" 769.95	33.96' ST-346

NOTES:

- WHERE STRUCTURE ADJ-1, ADJ-2, ADJ-3, ADJ-5 AND ADJ-6 ARE INDICATED ON THE PLANS, NUMBERS 1, 2, 3, 5 AND 6 CORRESPOND TO CITY OF FLINT CASTING DETAIL NUMBERS CF-1, CF-2, CF-3, CF-5, CF-6 RESPECTIVELY. THE STRUCTURES ARE TO BE ADJUSTED TO FINAL GRADE WITH NEW STRUCTURE FRAMES AND COVERS AS INDICATED ON THE LEGEND SHEET AND THE CITY OF FLINT CASTING DETAILS SHEET. CASTINGS CF-1, CF-2, CF-6 ARE PAID FOR AS PAY ITEM "DR STRUCTURE COVER, TYPE B". CASTINGS CF-3 ARE PAID FOR AS PAY ITEM "DR STRUCTURE COVER, TYPE K". CASTING CF-5 IS PAID FOR AS "DR STRUCTURE COVER, TYPE G". ALL OTHER STRUCTURE COVER TYPES WILL REFER TO MDOT STANDARD PLANS.
- EXISTING STORM STRUCTURES THAT ARE TO BE TAPPED WITH A PROPOSED STORM SEWER ARE INDICATED IN THE STRUCTURE TABLE AS ST-###. THE "ST" INDICATES STRUCTURE TAP AND THE NUMBER (###) INDICATES THE EXISTING STORM STRUCTURE WHICH IS BEING TAPPED.
- WHERE PIPES ARE DESIGNATED FOR REMOVAL, THEY ARE TO BE REMOVED TO AN EXISTING STRUCTURE WHICH WILL REMAIN IN PLACE. THE PIPE OPENING IN THE STRUCTURE SHALL BE REPAIRED/BULK HEADED WITH BRICK AND MORTAR AS APPROVED BY THE ENGINEER.
- MDOT SOIL EROSION CONTROL MEASURE 29 IS INDICATED IN THE TOP PORTION OF THE SHEET FOR EXISTING STORM STRUCTURES WHICH ARE TO BE PROTECTED. SOIL EROSION CONTROL MEASURE 29 SHALL ALSO BE APPLIED TO EACH PROPOSED STORM CATCH BASIN WHICH IS INDICATED IN THE STRUCTURE TABLE AS CB-##.
- WHERE CATCH BASIN RIM ELEVATIONS ARE INDICATED ON THESE PLANS, THE ELEVATION LISTED REPRESENTS THE EDGE OF PAVEMENT ELEVATION.
- FOR ADDITIONAL CURB RADIUS INFORMATION AND DETAILED INTERSECTION GRADING, REFER TO THE DETAILED INTERSECTION GRADING SHEETS.

JOB NO. JN200906

CAUTION - CRITICAL UNDERGROUND UTILITY
HAZARDOUS OR FLAMMABLE MATERIAL

CAUTION - CRITICAL UNDERGROUND UTILITY
HAZARDOUS OR FLAMMABLE MATERIAL

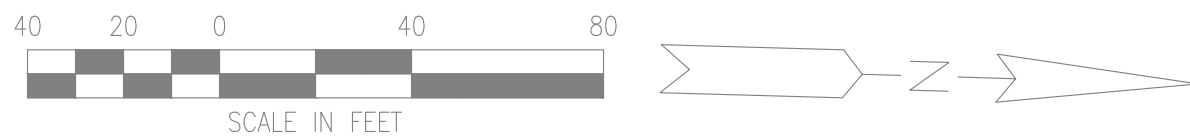
CAUTION - CRITICAL UNDERGROUND UTILITY
HAZARDOUS OR FLAMMABLE MATERIAL

CAUTION - CRITICAL UNDERGROUND UTILITY
HAZARDOUS OR FLAMMABLE MATERIAL

ROAD REMOVAL PLAN

ROAD CONSTRUCTION PLAN

BENCHMARK 201
DESCRIPTION: SET GEAR SPIKE IN STRAIN POLE LOCATED IN WEST FACE OF NEW STRAIN POLE IN THE SOUTHEAST QUADRANT OF DUPONT ST. AND STEWART ST.
NORTHING: 566986.794
EASTING: 13297971.743
ELEVATION: 774.253



MAINLINE QUANTITIES - THIS SHEET

ITEM	JN 200906	
	CAT 0001	UNIT
Dr Structure, Rem	10	EA
Sewer, Rem, Less than 24 inch	206	FT
Sidewalk, Rem	580	SYD
Pavt, Rem, Modified	5870	SYD
Embankment, CIP	354	CYD
Excavation, Earth	1782	CYD
Aggregate Base, 6 inch	966	SYD
Aggregate Base, 12 inch	4066	SYD
Sewer, CL E, 12 inch, Tr Det B	206	FT
Sewer Bulkhead, 12 inch	2	EA
Dr Structure Cover, Adj, Case 1	12	EA
Dr Structure Cover, Type B	13	EA
Dr Structure Cover, Type K	9	EA
Dr Structure, 24 inch dia	7	EA
Dr Structure, 48 inch dia	2	EA
Dr Structure, 72 inch dia	1	EA
Dr Structure, Adj, Add Depth	1	FT
Dr Structure, Tap, 12 inch	5	EA
Underdrain, Subbase, 6 inch	1683	FT
Hand Patching	10	TON
HMA, 3E1	704	TON
HMA, 4E1	470	TON
HMA, 5E1	352	TON
HMA Approach	187	TON
Driveway, Nonreinf Conc, 6 inch	71	SYD
Driveway, Nonreinf Conc, 9 inch	335	SYD
Curb and Gutter, Conc, Det F4	1683	FT
Curb Ramp Opening, Conc	110	FT
Sidewalk Ramp, Conc, 6 inch	1048	SFT
Sidewalk, Conc, 4 inch	2997	SFT
Sidewalk, Conc, 6 inch	1420	SFT
Detectable Warning Surface, Modified	85	FT
Turf Establishment, Performance	1333	SYD

DRIVEWAY QUANTITIES - THIS SHEET

STA	SIDE	HOUSE #	PAVT, REM, MODIFIED (SYD)	DRIVEWAY, NONREINF CONC, 6 INCH (SYD)	DRIVEWAY, NONREINF CONC, 9 INCH (SYD)	AGGREGATE BASE, 6 INCH (SYD)
524+76	L	4129	22	29	0	29
525+73	L	4137	11	21	0	21
527+64	L	702	12	21	0	21
528+50	L	701	62	0	113	113
530+22	L	4301	52	0	74	74
530+96	L	4301	54	0	71	71
531+38	L	4311	53	0	76	76

CITY OF FLINT
1101 SOUTH SAGINAW STREET
FLINT, MI 48502
DUPONT STREET - NORTH PLAN AND REMOVAL SHEET 4

ISSUED FOR: DATE: BY:
GI PLANS: 10/25/18 JUS
FINAL REVIEW: 2/25/19 JUS
FINAL PLANS: 4/19/19 JUS

JOB NO.
COF1065.01F

SHEET

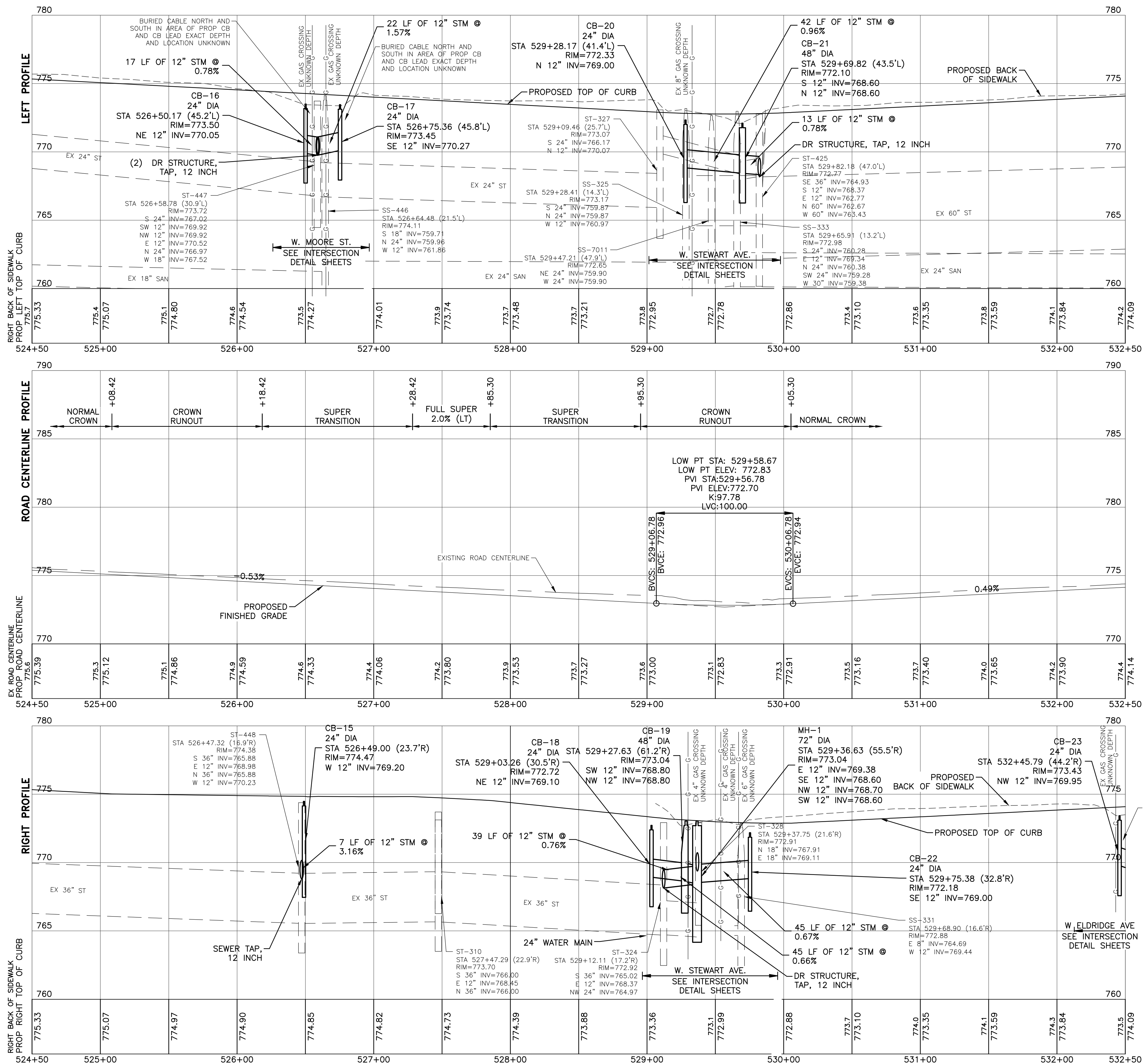
51



555 S. Saginaw Street, Suite 201
Flint, MI 48502
810.225.2535
www.wadetrims.com

NOTES:

1. PORTIONS OF THE PROPOSED WATER MAINS HAVE BEEN SHOWN IN PROFILE VIEW WHEN CROSSING THE PROPOSED STORM SEWER. THE PROPOSED HYDRANT LEADS AND WATER MAIN CROSSINGS OF PROPOSED STORM SEWERS AT EACH SIDE STREET CONNECTION TO THE EXISTING WATER MAINS HAVE NOT BEEN SHOWN ON THESE PROFILES. SEE THE WATER MAIN CONSTRUCTION SHEETS FOR ADDITIONAL INFORMATION ON WATER MAIN CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING THE PROPOSED WATER MAIN AT A DEPTH THAT MAINTAINS A MINIMUM OF 18" VERTICAL CLEARANCE AT EACH CROSSING OF THE PROPOSED STORM SEWER. IF THIS REQUIRES THE ADJUSTMENT OF PROPOSED WATER MAIN OR STORM SEWER DEPTHS OR LOCATIONS FROM WHAT IS PROPOSED ON THESE PLANS, THE CONTRACTOR SHALL COORDINATE THESE ADJUSTMENTS WITH THE PROJECT ENGINEER.
2. THE EXACT LOCATION AND DEPTH OF EXISTING WATER MAINS ARE UNKNOWN AND THEIR CROSSING OF THE PROPOSED STORM SEWERS HAVE NOT BEEN SHOWN ON THESE PROFILES
3. EXISTING PRIVATE UTILITY LOCATIONS AND DEPTHS ARE UNKNOWN. WHERE POSSIBLE A NOTE HAS BEEN ADDED TO THE PROFILE SHEETS TO POINT OUT THAT THERE MAY BE A UTILITY CROSSING IN THE AREA OF A PROPOSED STRUCTURE IF A CONFLICT BETWEEN ANY EXISTING UTILITY AND A PROPOSED UTILITY IS FOUND DURING CONSTRUCTION THE CONTRACTOR SHALL COORDINATE ANY REQUIRED ADJUSTMENTS WITH THE PROJECT ENGINEER.





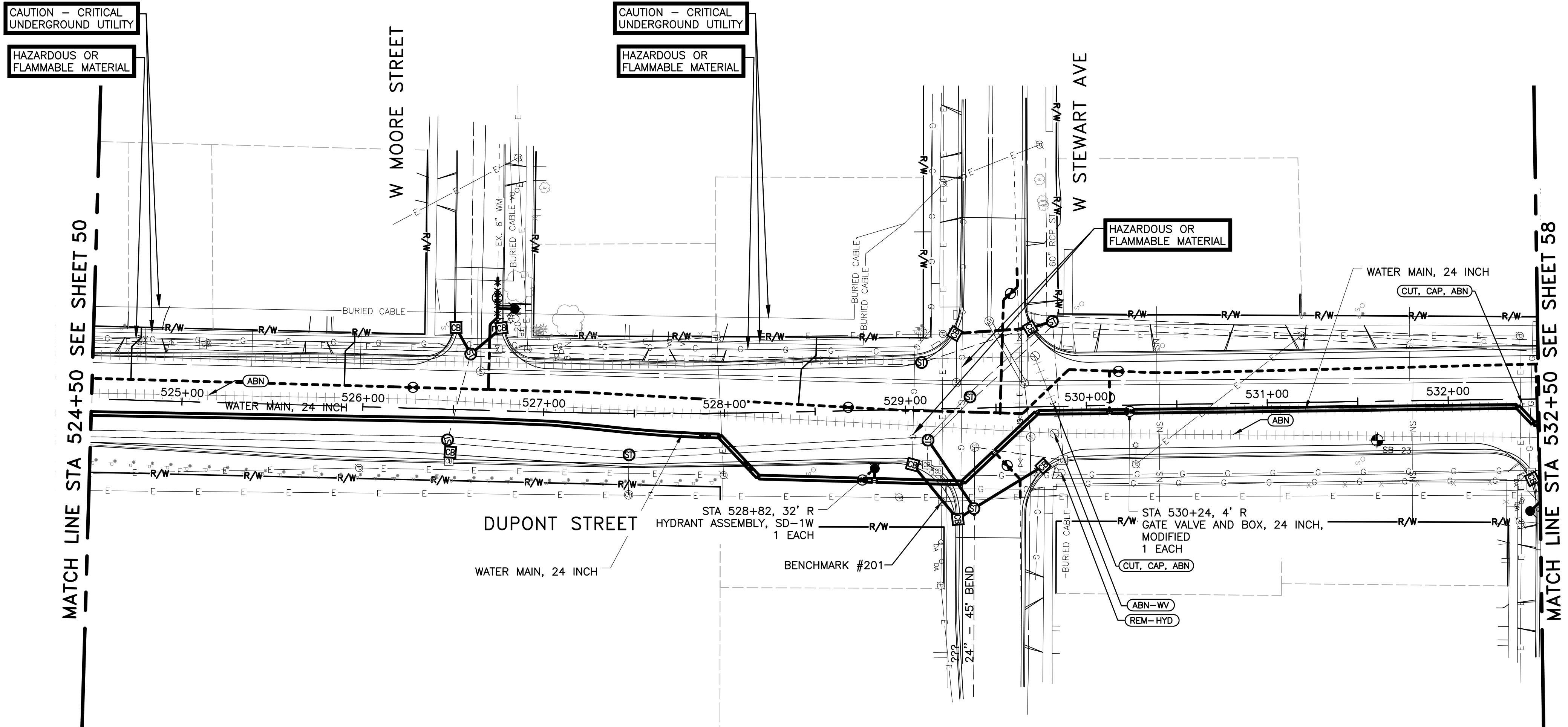
NOTES:

1. WATER MAIN SHALL BE TESTED IN ACCORDANCE WITH AWWA C600-10, AND CHLORINATED IN ACCORDANCE WITH THE LATEST THE CITY OF FLINT STANDARDS AND THE WATER MAIN SPECIAL PROVISIONS. ALL TESTING SHALL BE OBSERVED AND MONITORED BY FLINT.
2. THE CONTRACTOR SHALL INSTALL, AS A MINIMUM, 2" CORPORATIONS ON THE PRESSURE PIPE FOR PRESSURE TESTING, CHLORINE ADDITION, AND FOR BLOW-OFF PURPOSES. THE CONTRACTOR SHALL REMOVE THE CORPORATIONS AND COPPER LINES UPON A SATISFACTORY TEST AND INSTALL COPPER THREADED PLUGS PRIOR TO FINAL ACCEPTANCE.
3. WATER MAIN SHALL HAVE AT LEAST 10' OF HORIZONTAL SEPARATION AND 18" VERTICAL FROM ANY SANITARY OR STORM SEWER.
4. GATE VALVES AT THE END OF LINES SHALL HAVE ONE PIPE LENGTH ADDED PRIOR TO ENDING WITH A HYDRANT.
5. A MINIMUM OF 5.5- FEET OF COVER SHALL BE ACHIEVED OVER THE WATER MAIN AT ALL TIMES.
6. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING WATER MAIN SIZE AND LOCATIONS PRIOR TO CONNECTION.
7. ALL BACKFILL SHALL BE IN ACCORDANCE WITH THE CITY OF FLINT DETAIL SD-7W.
8. REMOVE EXISTING HYDRANTS AS INDICATED ON THE PLANS. CONTRACTOR SHALL CLEARLY DESIGNATE WHEN THE EXISTING HYDRANT IS OUT OF SERVICE.
9. DEFLECT WATER MAIN AS NOTED ON THE PLANS. DEFLECT WATER MAIN NO MORE THAN ONE-HALF OF THE MANUFACTURER'S RECOMMENDED MAXIMUM DEFLECTION FOR EACH JOINT. IF NEEDED, USE BENDS TO MAKE DEFLECTIONS. ADDITIONAL BENDS ARE INCIDENTAL TO WATER MAIN, INCH, OPEN CUT.

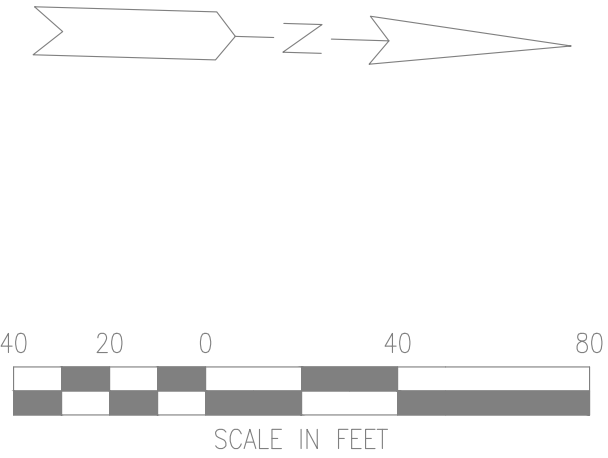
SEE NEXT SHEET FOR 24"
WATER MAIN INFORMATION



PROJECT MANAGER: C:\P\WORK\2018\2519\CRP-PLTS-WATERMAINPHASE2.DWG - 41 DUPONT NORTH WM 24-INCH P&P SHEET 4 - PLOTTED 4/18/2019 12:13 PM BY RUGGLES, TIMOTHY



BENCHMARK 201
DESCRIPTION: SET GEAR SPIKE IN STRAIN POLE
LOCATED IN WEST FACE OF NEW STRAIN POLE IN
THE SOUTHEAST QUADRANT OF DUPONT ST. AND
STEWART ST.
NORTHING: 566986.794
EASTING: 13297971.743
ELEVATION: 774.253



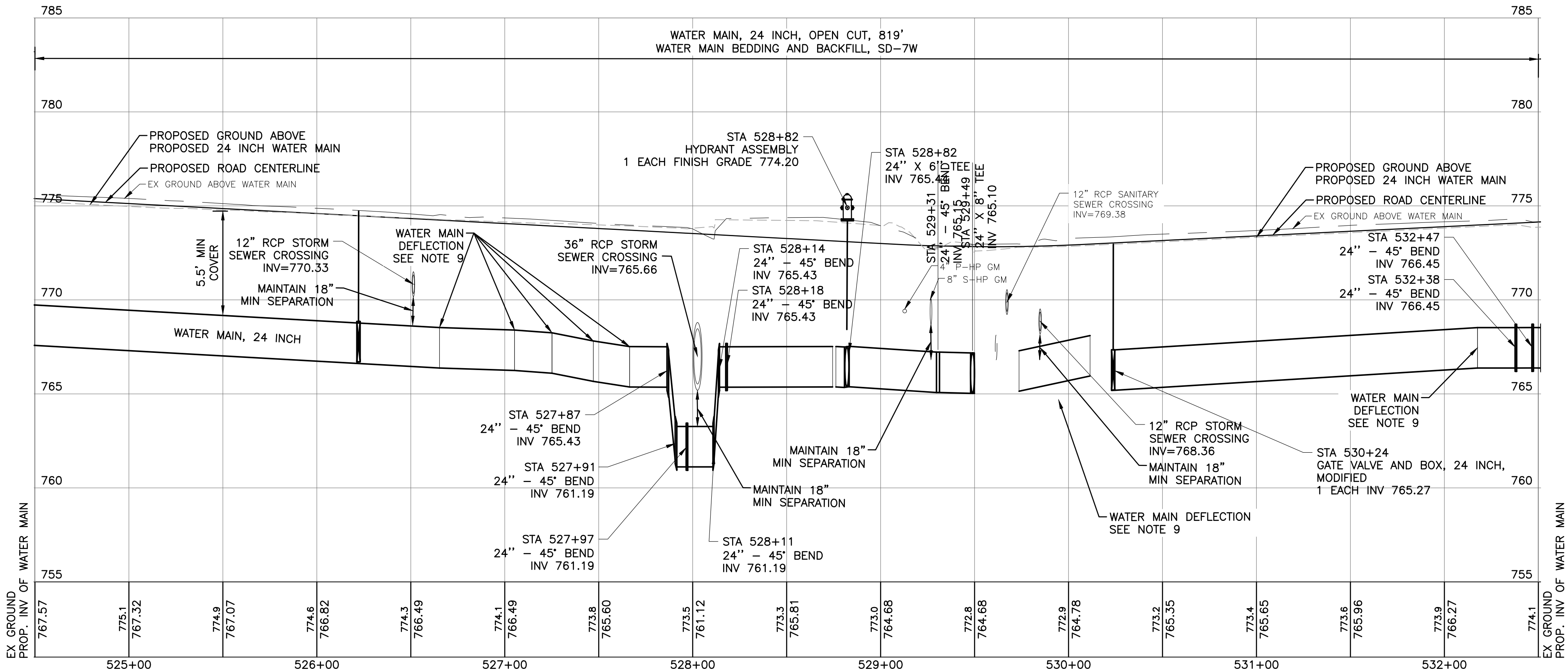
QUANTITIES THIS SHEET

ITEM	QUANTITY	UNIT
Gate Valve and Box, 24 inch, Modified	2	EA
Hydrant, Rem, Modified	1	EA
Hydrant Assembly, SD-1W	1	EA
Water Main, 24 inch, Cut and Plug, Modified	2	EA
Water Main, 24 inch, Open Cut	819	FT
Water Main Bedding and Backfill, SD-7W	819	FT
Water Structure, Abandon	1	EA

NOTES:

1. WATER MAIN SHALL BE TESTED IN ACCORDANCE WITH AWWA C600-10, AND CHLORINATED IN ACCORDANCE WITH THE LATEST THE CITY OF FLINT STANDARDS AND THE WATER MAIN SPECIAL PROVISIONS. ALL TESTING SHALL BE OBSERVED AND MONITORED BY FLINT.
2. THE CONTRACTOR SHALL INSTALL, AS A MINIMUM, 2" CORPORATIONS ON THE PRESSURE PIPE FOR PRESSURE TESTING, CHLORINE ADDITION, AND FOR BLOW-OFF PURPOSES. THE CONTRACTOR SHALL REMOVE THE CORPORATIONS AND COPPER LINES UPON A SATISFACTORY TEST AND INSTALL COPPER THREADED PLUGS PRIOR TO FINAL ACCEPTANCE.
3. WATER MAIN SHALL HAVE AT LEAST 10' OF HORIZONTAL SEPARATION AND 18" VERTICAL FROM ANY SANITARY OR STORM SEWER.
4. GATE VALVES AT THE END OF LINES SHALL HAVE ONE PIPE LENGTH ADDED PRIOR TO ENDING WITH A HYDRANT.
5. A MINIMUM OF 5.5- FEET OF COVER SHALL BE ACHIEVED OVER THE WATER MAIN AT ALL TIMES.
6. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING WATER MAIN SIZE AND LOCATIONS PRIOR TO CONNECTION.
7. ALL BACKFILL SHALL BE IN ACCORDANCE WITH THE CITY OF FLINT DETAIL SD-7W.
8. REMOVE EXISTING HYDRANTS AS INDICATED ON THE PLANS. CONTRACTOR SHALL CLEARLY DESIGNATE WHEN THE EXISTING HYDRANT IS OUT OF SERVICE.
9. DEFLECT WATER MAIN AS NOTED ON THE PLANS. DEFLECT WATER MAIN NO MORE THAN ONE-HALF OF THE MANUFACTURER'S RECOMMENDED MAXIMUM DEFLECTION FOR EACH JOINT. IF NEEDED, USE BENDS TO MAKE DEFLECTIONS. ADDITIONAL BENDS ARE INCIDENTAL TO WATER MAIN, _INCH, OPEN CUT.

SEE PREVIOUS SHEET FOR 8"
WATER MAIN INFORMATION



JOB NO. JN200906

REV#	DATE	DESCRIPTION	BY

555 S. Saginaw Street, Suite 201
Flint, MI 48502
810.252.2535
www.wadetrims.com



CITY OF FLINT
1101 SOUTH SAGINAW STREET
FLINT, MI 48502
DUPONT STREET - NORTH
DUPONT NORTH WM 24-INCH P&P SHEET 4

ISSUED FOR: DATE: BY:
GI PLANS 10/25/18 JUS
FINAL REVIEW 2/25/19 JUS
FINAL PLANS 4/19/19 JUS

JOB NO.
COF1065.01F

SHEET

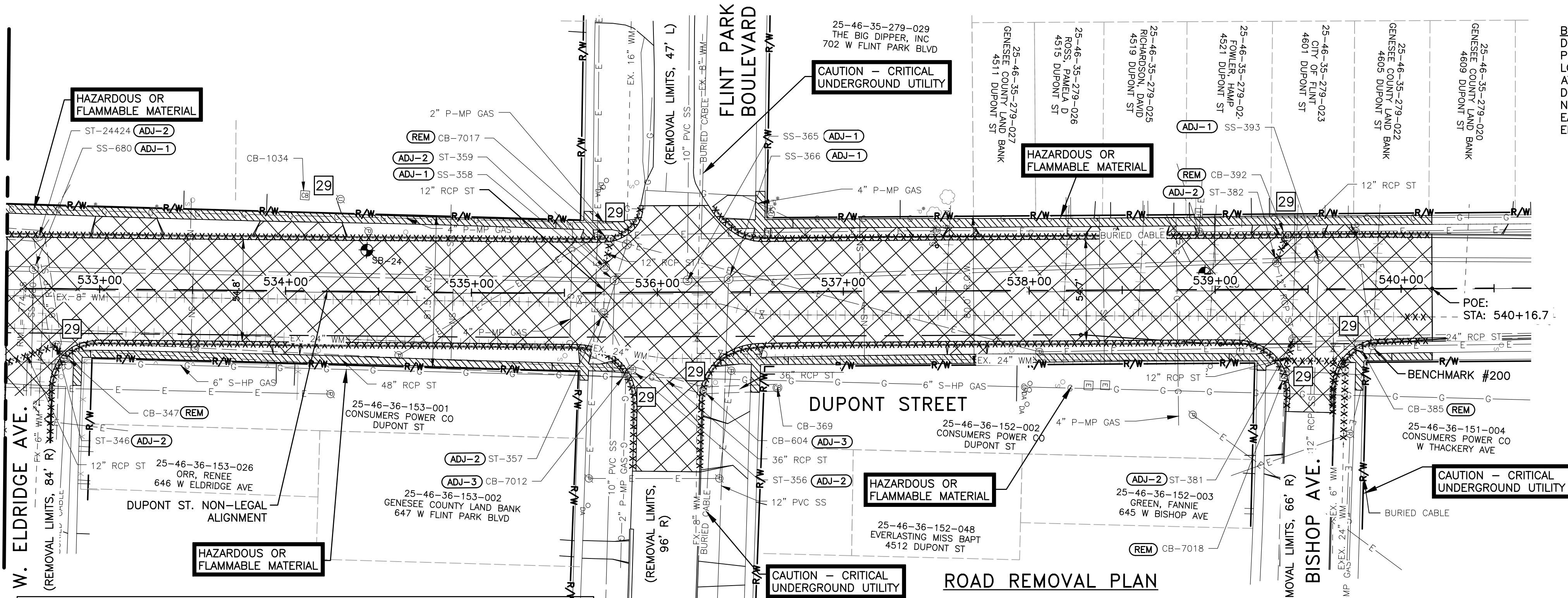
54



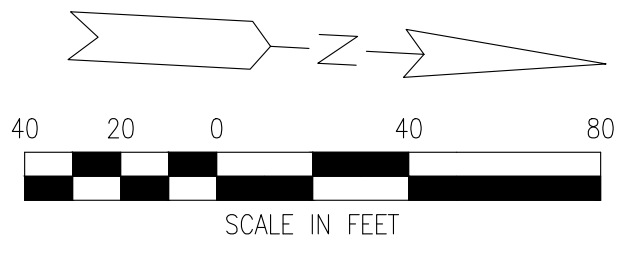
Know what's below.
Call before you dig.

MATCH LINE STA 532+50 SEE SHEET 51

MATCH LINE STA 532+50 SEE SHEET 51



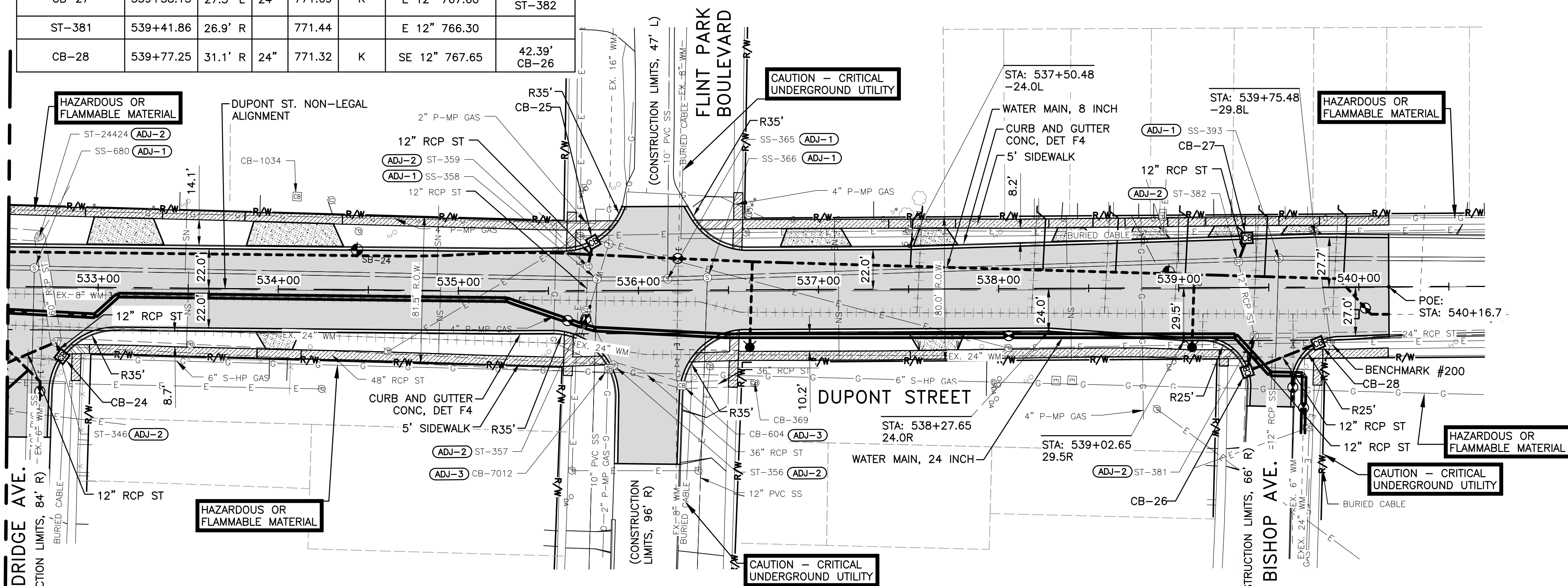
BENCHMARK 200
DESCRIPTION: FOUND RAILROAD SPIKE IN POWER POLE
LOCATED IN SOUTHEAST FACE OF POWER POLE AT THE NORTHEAST CORNER OF BISHOP AND DUPONT ST.
NORTHING: 568050.275
EASTING: 13297901.600
ELEVATION: 772.401



PROPOSED DRAINAGE STRUCTURES

STR NO	STATION	OFFSET	SIZE	RIM	COVER TYPE	PIPE DIRECTION, SIZE, AND INVERT	DISTANCE TO DOWN STREAM STR
ST-346	532+76.90	30.6' R				SE 12" 768.84 NE 12" 769.64	
CB-24	532+80.26	38.6' R	24"	773.48	K	SW 12" 769.88	8.67' ST-346
ST-359	535+71.94	13.4' L				W 12" 769.20	
CB-25	535+75.04	27.0' L	24"	772.95	K	E 12" 769.46	13.96' ST-359
ST-382	539+33.23	14.5' L				W 12" 767.50	
CB-26	539+37.78	46.5' R	48"	771.30	K	W 12" 766.40 NW 12" 767.40	20.04' ST-381
CB-27	539+38.13	27.5' L	24"	771.69	K	E 12" 767.60	13.96' ST-382
ST-381	539+41.86	26.9' R		771.44		E 12" 766.30	
CB-28	539+77.25	31.1' R	24"	771.32	K	SE 12" 767.65	42.39' CB-26

- NOTES:
- WHERE STRUCTURE ADJ-1, ADJ-2, ADJ-3, ADJ-5 AND ADJ-6 ARE INDICATED ON THE PLANS, NUMBERS 1, 2, 3, 5 AND 6 CORRESPOND TO CITY OF FLINT CASTING DETAIL NUMBERS CF-1, CF-2, CF-3, CF-5, CF-6 RESPECTIVELY. THE STRUCTURES ARE TO BE ADJUSTED TO FINAL GRADE WITH NEW STRUCTURE FRAMES AND COVERS AS INDICATED ON THE LEGEND SHEET AND THE CITY OF FLINT CASTING DETAILS SHEET. CASTINGS CF-1, CF-2, CF-6 ARE PAID FOR AS PAY ITEM "DR STRUCTURE COVER, TYPE B". CASTINGS CF-3 ARE PAID FOR AS PAY ITEM "DR STRUCTURE COVER, TYPE K". CASTING CF-5 IS PAID FOR AS "DR STRUCTURE COVER, TYPE G". ALL OTHER STRUCTURE COVER TYPES WILL REFER TO MDOT STANDARD PLANS.
 - EXISTING STORM STRUCTURES THAT ARE TO BE TAPPED WITH A PROPOSED STORM SEWER ARE INDICATED IN THE STRUCTURE TABLE AS ST-###. THE "ST" INDICATES STRUCTURE TAP AND THE NUMBER (###) INDICATES THE EXISTING STORM STRUCTURE WHICH IS BEING TAPPED.
 - WHERE PIPES ARE DESIGNATED FOR REMOVAL, THEY ARE TO BE REMOVED TO AN EXISTING STRUCTURE WHICH WILL REMAIN IN PLACE. THE PIPE OPENING IN THE STRUCTURE SHALL BE REPAIRED/BULK HEADED WITH BRICK AND MORTAR AS APPROVED BY THE ENGINEER.
 - MDOT SOIL EROSION CONTROL MEASURE 29 IS INDICATED IN THE TOP PORTION OF THE SHEET FOR EXISTING STORM STRUCTURES WHICH ARE TO BE PROTECTED. SOIL EROSION CONTROL MEASURE 29 SHALL ALSO BE APPLIED TO EACH PROPOSED STORM CATCH BASIN WHICH IS INDICATED IN THE STRUCTURE TABLE AS CB-##.
 - WHERE CATCH BASIN RIM ELEVATIONS ARE INDICATED ON THESE PLANS, THE ELEVATION LISTED REPRESENTS THE EDGE OF PAVEMENT ELEVATION.
 - FOR ADDITIONAL CURB RADIUS INFORMATION AND DETAILED INTERSECTION GRADING, REFER TO THE DETAILED INTERSECTION GRADING SHEETS.



DRIVEWAY QUANTITIES - THIS SHEET

STA	SIDE	HOUSE #	PAVT, REM, MODIFIED (SYD)	DRIVEWAY, NONREINF CONC, 6 INCH (SYD)	DRIVEWAY, NONREINF CONC, 9 INCH (SYD)	AGGREGATE BASE, 6 INCH (SYD)
533+14	L	4311	37	0	62	62
534+01	R		8	20	0	20
534+08	L	4413	41	0	71	71
536+98	L	702	41	0	38	38
537+64	L	4511	9	21	0	21
537+66	R		12	0	29	29
538+41	L	4515	9	16	0	16
538+82	L	4519	8	13	0	13
539+26	L	4521	7	11	0	11
539+67	L	4601	8	9	0	9



555 S. Saginaw Street, Suite 201
Flint, MI 48602
810.252.2535
www.wade-trim.com

WADE TRIM

CITY OF FLINT
1101 SOUTH SAGINAW STREET
FLINT, MI 48502

DUPONT STREET - NORTH
DUPONT NORTH PLAN AND REMOVAL SHEET 5

ISSUED FOR: DATE: BY:
GI PLANS 10/25/18 JUS
FINAL REVIEW 2/25/19 JUS
FINAL PLANS 4/19/19 JUS

JOB NO.
COF1065.01F

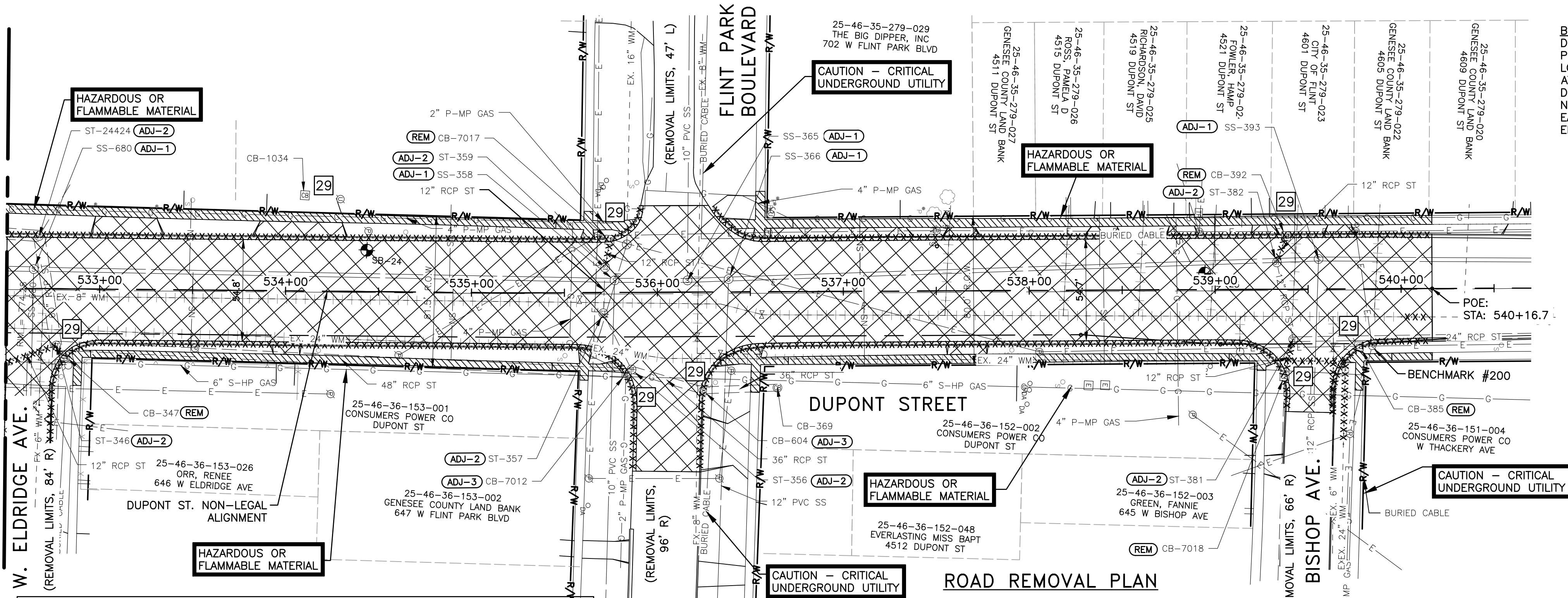
SHEET
55

DESCRIPTION
DATE
REV#

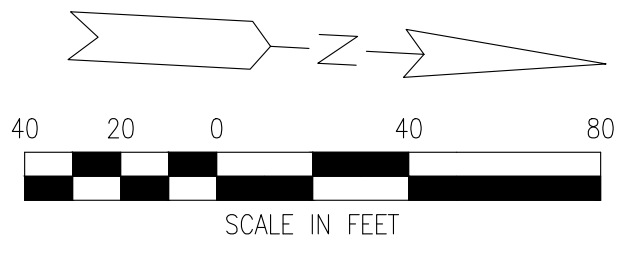
BY

MATCH LINE STA 532+50 SEE SHEET 51

MATCH LINE STA 532+50 SEE SHEET 51



BENCHMARK 200
DESCRIPTION: FOUND RAILROAD SPIKE IN POWER POLE
LOCATED IN SOUTHEAST FACE OF POWER POLE AT THE NORTHEAST CORNER OF BISHOP AND DUPONT ST.
NORTHING: 568050.275
EASTING: 13297901.600
ELEVATION: 772.401



PROPOSED DRAINAGE STRUCTURES

STR NO	STATION	OFFSET	SIZE	RIM	COVER TYPE	PIPE DIRECTION, SIZE, AND INVERT	DISTANCE TO DOWN STREAM STR
ST-346	532+76.90	30.6' R				SE 12" 768.84 NE 12" 769.64	
CB-24	532+80.26	38.6' R	24"	773.48	K	SW 12" 769.88	8.67' ST-346
ST-359	535+71.94	13.4' L				W 12" 769.20	
CB-25	535+75.04	27.0' L	24"	772.95	K	E 12" 769.46	13.96' ST-359
ST-382	539+33.23	14.5' L				W 12" 767.50	
CB-26	539+37.78	46.5' R	48"	771.30	K	W 12" 766.40 NW 12" 767.40	20.04' ST-381
CB-27	539+38.13	27.5' L	24"	771.69	K	E 12" 767.60	13.96' ST-382
ST-381	539+41.86	26.9' R		771.44		E 12" 766.30	
CB-28	539+77.25	31.1' R	24"	771.32	K	SE 12" 767.65	42.39' CB-26

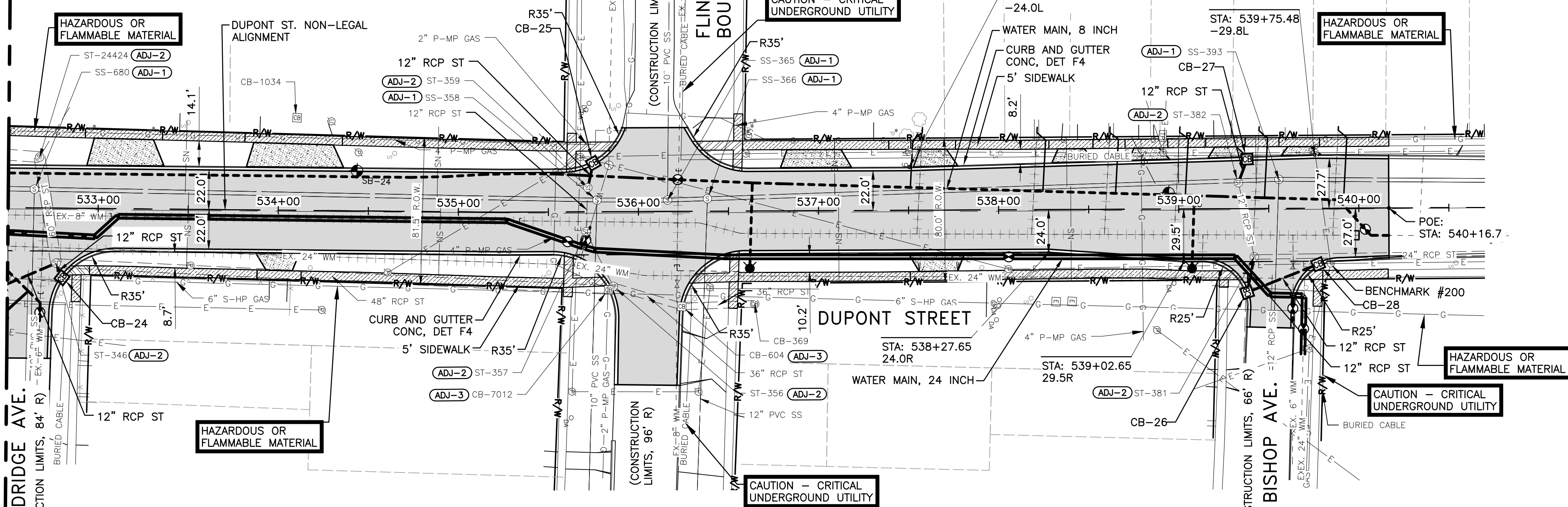
- NOTES:
- WHERE STRUCTURE ADJ-1, ADJ-2, ADJ-3, ADJ-5 AND ADJ-6 ARE INDICATED ON THE PLANS, NUMBERS 1, 2, 3, 5 AND 6 CORRESPOND TO CITY OF FLINT CASTING DETAIL NUMBERS CF-1, CF-2, CF-3, CF-5, CF-6 RESPECTIVELY. THE STRUCTURES ARE TO BE ADJUSTED TO FINAL GRADE WITH NEW STRUCTURE FRAMES AND COVERS AS INDICATED ON THE LEGEND SHEET AND THE CITY OF FLINT CASTING DETAILS SHEET. CASTINGS CF-1, CF-2, CF-6 ARE PAID FOR AS PAY ITEM "DR STRUCTURE COVER, TYPE B". CASTINGS CF-3 ARE PAID FOR AS PAY ITEM "DR STRUCTURE COVER, TYPE K". CASTING CF-5 IS PAID FOR AS "DR STRUCTURE COVER, TYPE G". ALL OTHER STRUCTURE COVER TYPES WILL REFER TO MDOT STANDARD PLANS.
 - EXISTING STORM STRUCTURES THAT ARE TO BE TAPPED WITH A PROPOSED STORM SEWER ARE INDICATED IN THE STRUCTURE TABLE AS ST-###. THE "ST" INDICATES STRUCTURE TAP AND THE NUMBER (###) INDICATES THE EXISTING STORM STRUCTURE WHICH IS BEING TAPPED.
 - WHERE PIPES ARE DESIGNATED FOR REMOVAL, THEY ARE TO BE REMOVED TO AN EXISTING STRUCTURE WHICH WILL REMAIN IN PLACE. THE PIPE OPENING IN THE STRUCTURE SHALL BE REPAIRED/BULK HEADED WITH BRICK AND MORTAR AS APPROVED BY THE ENGINEER.
 - MDOT SOIL EROSION CONTROL MEASURE 29 IS INDICATED IN THE TOP PORTION OF THE SHEET FOR EXISTING STORM STRUCTURES WHICH ARE TO BE PROTECTED. SOIL EROSION CONTROL MEASURE 29 SHALL ALSO BE APPLIED TO EACH PROPOSED STORM CATCH BASIN WHICH IS INDICATED IN THE STRUCTURE TABLE AS CB-##.
 - WHERE CATCH BASIN RIM ELEVATIONS ARE INDICATED ON THESE PLANS, THE ELEVATION LISTED REPRESENTS THE EDGE OF PAVEMENT ELEVATION.
 - FOR ADDITIONAL CURB RADIUS INFORMATION AND DETAILED INTERSECTION GRADING, REFER TO THE DETAILED INTERSECTION GRADING SHEETS.

MAINLINE QUANTITIES - THIS SHEET

ITEM	JN 200906 CAT 0001 QUANTITY	UNIT
Dr Structure, Rem	4	EA
Sewer, Rem, Less than 24 inch	100	FT
Sidewalk, Rem	781	SYD
Pavt, Rem, Modified	5699	SYD
Embankment, CIP	351	CYD
Excavation, Earth	1804	CYD
Aggregate Base, 6 inch	789	SYD
Aggregate Base, 12 inch	3932	SYD
Sewer Bulkhead, 12 inch	1	EA
Sewer, CL E, 12 inch, Tr Det B	99	FT
Dr Structure Cover, Adj, Case 1	14	EA
Dr Structure Cover, Type B	12	EA
Dr Structure Cover, Type K	7	EA
Dr Structure, 24 inch dia	4	EA
Dr Structure, 48 inch dia	1	EA
Dr Structure, Adj, Add Depth	1	FT
Dr Structure, Tap, 12 inch	5	EA
Underdrain, Subbase, 6 inch	1495	FT
Hand Patching	10	TON
HMA, 3E1	681	TON
HMA, 4E1	454	TON
HMA, 5E1	341	TON
HMA Approach	231	TON
Driveway, Nonreinf Conc, 6 inch	90	SYD
Driveway, Nonreinf Conc, 9 inch	200	SYD
Curb and Gutter, Conc, Det F4	1495	FT
Curb Ramp Opening, Conc	85	FT
Sidewalk Ramp, Conc, 6 inch	931	SFT
Sidewalk, Conc, 4 inch	4643	SFT
Sidewalk, Conc, 6 inch	1543	SFT
Detectable Warning Surface, Modified	75	FT
Turf Establishment, Performance	1333	SYD

DRIVEWAY QUANTITIES - THIS SHEET

STA	SIDE	HOUSE #	PAVT, REM, MODIFIED (SYD)	DRIVEWAY, NONREINF CONC, 6 INCH (SYD)	DRIVEWAY, NONREINF CONC, 9 INCH (SYD)	AGGREGATE BASE, 6 INCH (SYD)
533+14	L	4311	37	0	62	62
534+01	R		8	20	0	20
534+08	L	4413	41	0	71	71
536+98	L	702	41	0	38	38
537+64	L	4511	9	21	0	21
537+66	R		12	0	29	29
538+41	L	4515	9	16	0	16
538+82	L	4519	8	13	0	13
539+26	L	4521	7	11	0	11
539+67	L	4601	8	9	0	9



ISSUED FOR: DATE: BY: G1 PLANS 10/25/18 JUS FINAL REVIEW 2/25/19 JUS FINAL PLANS 4/19/19 JUS

JOB NO. COF1065.01F

SHEET 55

WADE TRIM

CITY OF FLINT
1101 SOUTH SAGINAW STREET
FLINT, MI 48502
DUPONT STREET - NORTH
DUPONT NORTH PLAN AND REMOVAL SHEET 5