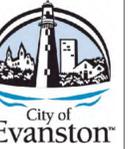


2025 WATER MAIN IMPROVEMENTS AND STREET RESURFACING PROJECT, PW-WMRS-2502

BID NO.: 25-08, CITY OF EVANSTON



NO.	DATE	REVISION
1		
2		
3		
4		

NOTE

THE PROPOSED PROJECT WILL NOT ALTER OR HAVE IMPACT ON THE FLOOD PROTECTION AREAS AND THE PROPOSED DRAINAGE CONDITION OF THE PROJECT SITES.

SIGNED BY: BRIDGET NASH, PE
SENIOR PROJECT MANAGER

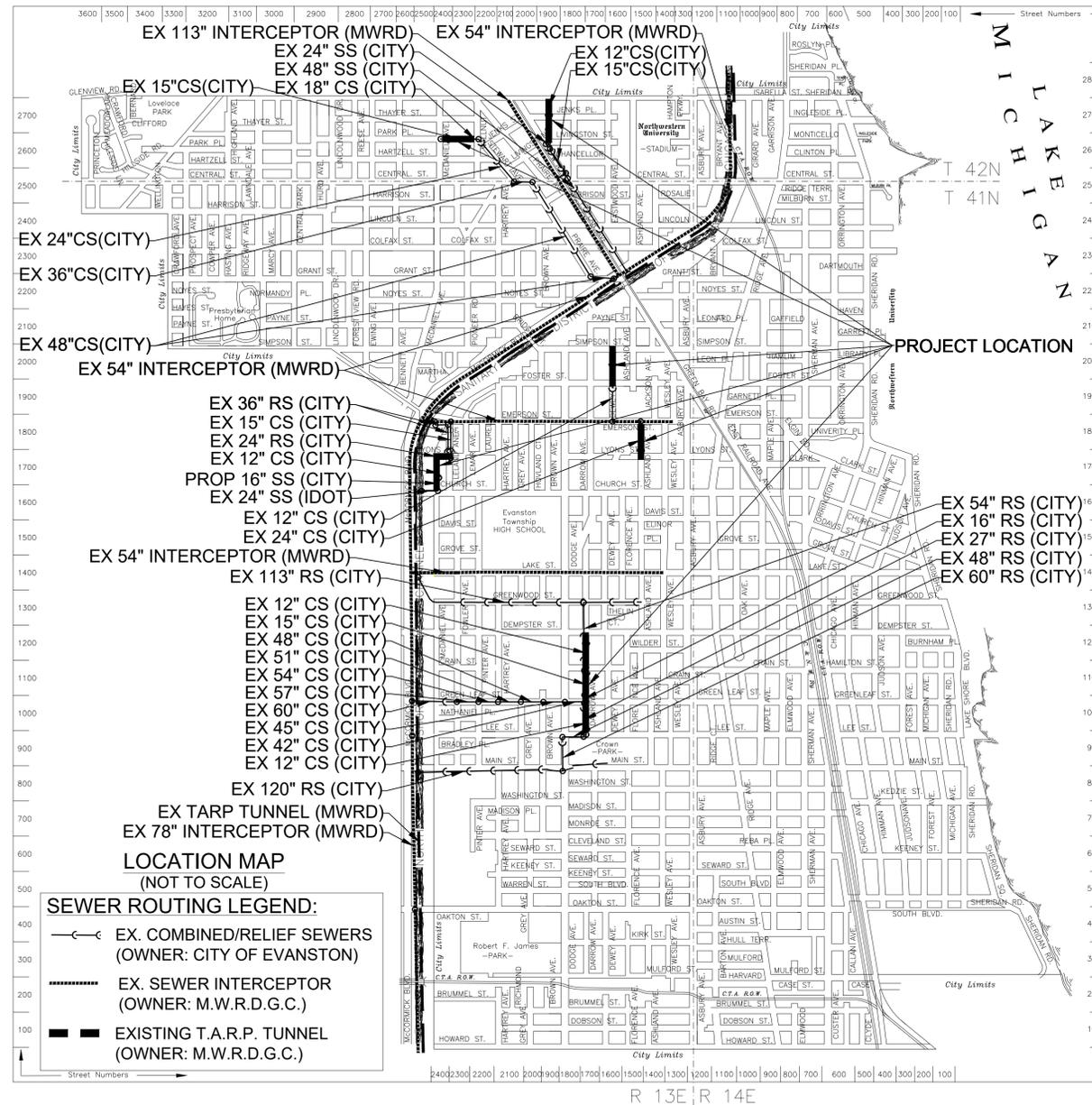
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PROJECT MANAGER

BRIDGET NASH, PE
SENIOR PROJECT MANAGER
PUBLIC WORKS AGENCY
BUREAU OF CAPITAL PLANNING AND ENGINEERING

2100 RIDGE AVENUE
EVANSTON, ILLINOIS
(847) 448-8129
BNASH@CITYOFEVANSTON.ORG



SEWER ROUTING LEGEND:

	EX. COMBINED/RELIEF SEWERS (OWNER: CITY OF EVANSTON)
	EX. SEWER INTERCEPTOR (OWNER: M.W.R.D.G.C.)
	EXISTING T.A.R.P. TUNNEL (OWNER: M.W.R.D.G.C.)

HIGHWAY STANDARDS

420001 - 10	424001 - 12
424006 - 06	424011 - 05
424016 - 06	424021 - 07
424026 - 04	424031 - 03
606001 - 08	780001 - 05

TRAFFIC STANDARDS

701301 - 04	701501 - 06
701602 - 10	701606 - 10
701611 - 01	701701 - 10
701801 - 06	701901 - 10

DISTRICT ONE DETAILS

TC - 10	BD - 08
TC - 13	BD - 32
TC - 26	TS - 07

NOTICE

- 1) THE EXACT LOCATION OF ALL UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION ACTIVITIES. FOR UTILITY LOCATION CALL J.U.L.I.E. AT 811 OR (800) 892-0123.
- 2) NO WORK TO BE DONE WITHIN THE PAVED STREET AREA FOR FIVE YEARS BY ANY UTILITY.

Contact the Metropolitan Water Reclamation District of Greater Chicago 2 days before starting work.

P (708) 588-4055
E WMOJobStart@mwrdd.org

PROPOSED NET LENGTH = 5,167 FEET (0.978 MILES)

2025 WATER MAIN IMPROVEMENTS AND STREET RESURFACING PROJECT INDEX OF SHEETS

SCALE
NTS

PROJECT NUMBER:
PW-WMRS-2502

BID NUMBER:
25-08

ISSUED FOR:
BID

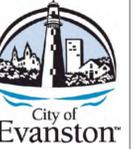
DATE: 01/21/2025

DESIGNED BY: AA

DRAWN BY: AA, BN

CHECKED BY: BN

SHEET
1 OF 33



1	2	3	4	NO.	REVISION
					DATE

**2025 WATER MAIN IMPROVEMENTS
AND STREET RESURFACING PROJECT
SUMMARY OF QUANTITIES/SWS INFO**

SCALE NTS
PROJECT NUMBER: PW-WMRS-2502
BID NUMBER: 25-08
ISSUED FOR: BID
DATE: 01/21/2025
DESIGNED BY: AA
DRAWN BY: AA, BN
CHECKED BY: BN
SHEET 3 OF 33

SUMMARY OF QUANTITIES
2025 WATER MAIN IMPROVEMENTS AND STREET RESURFACING PROJECT, PW-WMRS-2502, BID NO. 25-08

Ashland Avenue Addresses	Material (City)	Material (Private)	Diameter
1801 ASHLAND AVE	CPR	CPR	1.00
1810 ASHLAND AVE	LD	LD	1.00
1811 ASHLAND AVE	CPR	CPR	1.00
1812 ASHLAND AVE	LD	STL	1.00
1813 ASHLAND AVE	CPR	LD	1.00
1815 ASHLAND AVE	CPR	CPR	1.50
1818 ASHLAND AVE	LD	LD	1.00
1819 ASHLAND AVE	LD	LD	1.00
1820 ASHLAND AVE	CPR	CPR	1.00
1822 ASHLAND AVE	CPR	CPR	1.50
1823 ASHLAND AVE	CPR	CPR	1.50
1824 ASHLAND AVE	LD	CPR	1.00
1826 ASHLAND AVE	CPR	CPR	1.00
1827 ASHLAND AVE	CPR	CPR	1.50
1828 ASHLAND AVE	LD	LD	1.00
1829 ASHLAND AVE	LD	LD	1.00
1832 ASHLAND AVE	LD	STL	1.00
1834 ASHLAND AVE	LD	LD	1.00
1835 ASHLAND AVE, 1st Floor	LD	LD	1.00
1835 ASHLAND AVE, 2nd Floor	LD	LD	1.00
1837 ASHLAND AVE	LD	CPR	1.00
1838 ASHLAND AVE	LD	LD	1.00
1839 ASHLAND AVE	CPR	CPR	1.00
1843 ASHLAND AVE	CPR	CPR	1.50
1844 ASHLAND AVE	LD	CPR	1.00
1846 ASHLAND AVE	LD	STL	1.00
1450 EMERSON ST	LD	LD	1.00

Dewey Avenue Addresses	Material (City)	Material (Private)	Diameter
2010 DEWEY AVE	CPR	CPR	3.00
2032 DEWEY AVE	LD	CPR	1.00
2036 DEWEY AVE	LD	LD	1.00
2038 DEWEY AVE	UNK	UNK	
2040 DEWEY AVE	LD	LD	1.00
2042 DEWEY AVE	CPR	CPR	1.00
2046 DEWEY AVE	LD	LD	1.00
1655 FOSTER ST	CPR	CPR	

McDaniel Avenue Addresses	Material (City)	Material (Private)	Diameter
2525 CHURCH ST	CPR	LD	2.00
1800 LELAND AVE	CPR	CPR	1.00
2415 LYONS ST	CPR	CPR	1.00
2417 LYONS ST	CPR	CPR	
2421 LYONS ST	CPR	CPR	1.00
2423 LYONS ST	CPR	CPR	1.00
1711 MCDANIEL AVE	CPR	CPR	1.00
1715 MCDANIEL AVE	CPR	CPR	1.00
1717B MCDANIEL AVE	CPR	LD	
1717A MCDANIEL AVE	CPR	LD	
1719 B MCDANIEL AVE	CPR	LD	
1719 A MCDANIEL AVE	CPR	LD	
1723 A MCDANIEL AVE	CPR	LD	
1723 B MCDANIEL AVE	CPR	LD	
1725 B MCDANIEL AVE	CPR	CPR	
1727 A MCDANIEL AVE	CPR	LD	
1727 B MCDANIEL AVE	CPR	LD	
1731 B MCDANIEL AVE	CPR	LD	
1731 A MCDANIEL AVE	CPR	LD	
1735 A MCDANIEL AVE	CPR	LD	
1735 B MCDANIEL AVE	CPR	CPR	
1737 A MCDANIEL AVE	CPR	LD	
1737 B MCDANIEL AVE	CPR	LD	
1739 MCDANIEL AVE	CPR	LD	
1741 MCDANIEL AVE	CPR	LD	
1743 MCDANIEL AVE	CPR	LD	
1745 MCDANIEL AVE	CPR	LD	

Darrow Avenue Addresses	Material (City)	Material (Private)	Diameter
1724 CRAN ST	LD	LD	1.00
1727 CRAN ST	LD	LD	1.00
1800 CRAN ST	LD	LD	1.00
1801 CRAN ST	LD	LD	1.00
1004 DARROW AVE	LD	LD	1.00
1006 DARROW AVE - A	CPR	CPR	1.50
1006 DARROW AVE - B	CPR	CPR	1.50
1012 DARROW AVE	LD	CPR	1.00
1013 DARROW AVE	CPR	CPR	1.00
1016 DARROW AVE	LD	LD	1.00
1017 DARROW AVE	LD	LD	1.00
1018 DARROW AVE	LD	LD	1.00
1019 DARROW AVE	LD	LD	1.00
1020 DARROW AVE	LD	LD	1.00
1021 DARROW AVE	LD	LD	1.00
1023 DARROW AVE	LD	LD	1.00
1024 DARROW AVE	LD	LD	1.00
1026 DARROW AVE	LD	LD	1.00
1027 DARROW AVE	LD	CPR	1.00
1029 DARROW AVE	LD	CPR	1.00
1030 DARROW AVE	LD	LD	1.00
1032 DARROW AVE	LD	LD	1.00
1033 DARROW AVE	CPR	CPR	1.00
1036 DARROW AVE	LD	LD	1.00
1037 DARROW AVE	LD	LD	1.00
1038 DARROW AVE	LD	LD	1.00
1039 DARROW AVE	LD	CPR	1.00
1043 DARROW AVE	LD	CPR	1.00
1104 DARROW AVE	LD	LD	1.00
1108 DARROW AVE	LD	LD	1.00
1109 DARROW AVE	LD	LD	1.00
1110 DARROW AVE	LD	LD	1.00
1111 DARROW AVE	LD	LD	1.00
1115 DARROW AVE	LD	LD	1.00
1116 DARROW AVE	LD	STL	1.00
1117 DARROW AVE	LD	LD	1.00
1118 DARROW AVE	CPR	LD	1.00
1119 DARROW AVE	LD	LD	1.00
1120 DARROW AVE	UNK	UNK	
1122 DARROW AVE	LD	LD	1.00
1123 DARROW AVE	CPR	CPR	1.00
1124 DARROW AVE	LD	LD	1.00
1126 DARROW AVE	UNK	UNK	
1127 DARROW AVE	LD	LD	1.00
1130 DARROW AVE	LD	LD	1.00
1131 DARROW AVE	LD	LD	1.00
1132 DARROW AVE	LD	CPR	1.00
1133 DARROW AVE	LD	LD	1.00
1136 DARROW AVE	LD	CPR	1.00
1137 DARROW AVE	LD	CPR	1.00
1139 DARROW AVE	LD	CPR	1.00
1140 DARROW AVE	CPR	CPR	1.00
1141 DARROW AVE	CPR	CPR	2.00
1142 DARROW AVE	LD	LD	1.00
1210 DARROW AVE	LD	LD	1.00
1212 DARROW AVE	LD	LD	1.00
1213 DARROW AVE	LD	LD	1.00
1214 DARROW AVE	LD	LD	1.00
1215 DARROW AVE	LD	LD	1.00
1216 DARROW AVE	LD	LD	1.00
1217 DARROW AVE	LD	LD	1.00
1220 DARROW AVE	LD	STL	1.00
1221 DARROW AVE	LD	CPR	1.00
1222 DARROW AVE	LD	LD	1.00
1223 DARROW AVE	LD	LD	1.00
1224 DARROW AVE	LD	LD	1.00
1225 DARROW AVE	LD	LD	1.00
1226 DARROW AVE	LD	LD	1.00
1227 DARROW AVE	LD	LD	1.00
1229 DARROW AVE	LD	CPR	1.00
1230 DARROW AVE	LD	LD	1.00
1232 DARROW AVE	LD	LD	1.00
1233 DARROW AVE	LD	LD	1.00
1235 DARROW AVE	LD	LD	1.00
1239 DARROW AVE	LD	LD	1.00
1800 DEMPSTER ST	CPR	CPR	1.00
1727 LEE ST	CPR	CPR	1.50
1801 LEE ST	LD	LD	1.00

Park Place Addresses	Material (City)	Material (Private)	Diameter
2300 PARK PL	CPR	CPR	1.50
2304 PARK PL	LD	LD	1.00
2307 PARK PL	LD	LD	1.00
2308 PARK PL	LD	STL	1.00
2311 PARK PL	LD	LD	1.00
2312 PARK PL	LD	LD	1.00
2315 PARK PL	LD	LD	1.00
2316 PARK PL	CPR	CPR	1.00
2319 PARK PL	LD	LD	1.00
2320 PARK PL	LD	LD	1.00
2323 PARK PL	LD	LD	1.00
2324 PARK PL	LD	CPR	1.00
2327 PARK PL	DIP	DIP	1.00
2330 PARK PL	CPR	CPR	1.00
2337 PARK PL	LD	LD	1.00
2400 PARK PL	LD	LD	1.00
2401 PARK PL	LD	LD	1.00
2406 PARK PL	CPR	CPR	1.50
2407 PARK PL	LD	LD	1.00
2410 PARK PL	LD	CPR	1.00
2411 PARK PL	LD	STL	1.00
2412 PARK PL	LD	LD	1.00
2413 PARK PL	LD	LD	1.00
2418 PARK PL	LD	LD	1.00
2419 PARK PL	LD	LD	1.00
2422 PARK PL	LD	LD	1.00
2423 PARK PL	LD	CPR	1.00
2424 PARK PL	LD	LD	1.00
2425 PARK PL	LD	LD	1.00

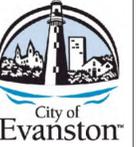
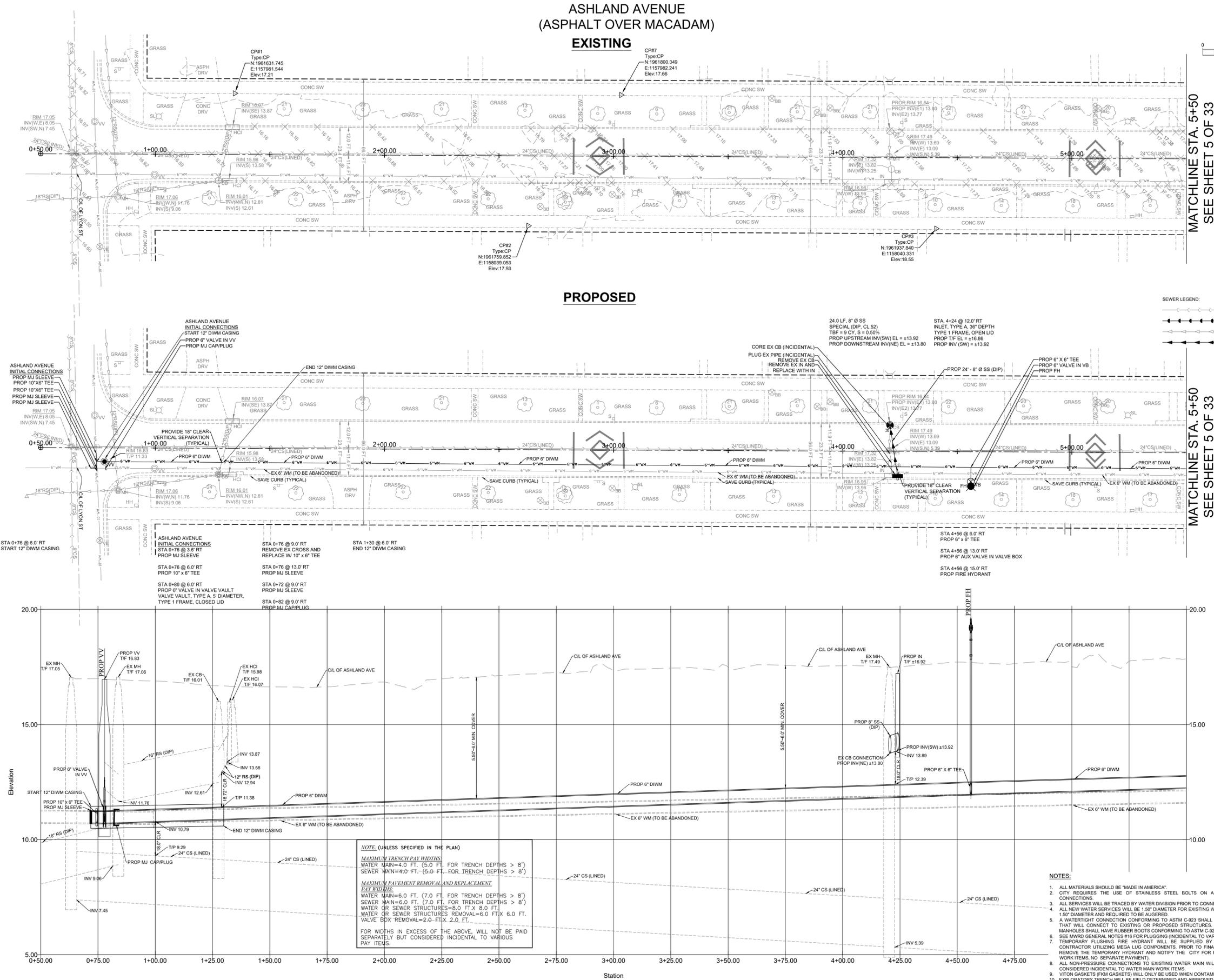
Woodbine Avenue Addresses	Material (City)	Material (Private)	Diameter
1904 JENKS ST	CPR	CPR	1.00
1905 JENKS ST	LD	LD	1.00
2705 WOODBINE AVE	LD	LD	1.00
2711 WOODBINE AVE	CPR	CPR	1.00
2715 WOODBINE AVE	LD	LD	1.00
2716 WOODBINE AVE	LD	LD	1.00
2717 WOODBINE AVE	LD	CPR	1.25
2721 WOODBINE AVE	CPR	CPR	1.50
2724 WOODBINE AVE	LD	LD	1.00
2727 WOODBINE AVE	CPR	CPR	1.00
2728 WOODBINE AVE	LD	LD	1.00
2737 WOODBINE AVE	LD	LD	1.00
2738 WOODBINE AVE	LD	CPR	1.00
2740 WOODBINE AVE	LD	LD	1.00
2741 WOODBINE AVE	LD	LD	1.00
2744 WOODBINE AVE	LD	CPR	1.00
2745 WOODBINE AVE	LD	CPR	1.00
2748 WOODBINE AVE	LD	LD	1.00
2749 WOODBINE AVE	LD	CPR	1.00
2752 WOODBINE AVE	LD	LD	1.00
2753 WOODBINE AVE	CPR	CPR	1.00
2757 WOODBINE AVE	CPR	CPR	1.00
2758 WOODBINE AVE	LD	LD	1.00
2761 WOODBINE AVE	CPR	CPR	1.50
2762 WOODBINE AVE	LD	LD	1.00

ITEM NO.	ITEM	UNIT	TOTAL QUANTITY	ASHLAND AVENUE (LYONS ST - EMERSON ST)	DARROW AVENUE (LEE ST - DEMPSTER ST)	DEWEY AVENUE (FOSTER ST - SIMPSON ST)	MCDANIEL AVENUE (CHURCH ST - LELAND AVE)	PARK PLACE (MCDANIEL AVE - WALNUT AVE)	WOODBINE AVENUE (LIVINGSTON ST - ISABELLA ST)
1	SP	TEMPORARY FENCE	11,081	1,400	3,760	700	1,800	1,660	1,761
2	SP	TREE TRUNK PROTECTION	153	22	66	9	17	20	19
3	SP	TREE ROOT PRUNING	4,818	700	2,065	300	532	626	595
4	SP	TREE PRUNING	215	30	82	18	21	32	32
5	SSRBC	TREE REMOVAL (OVER 15 INCH DIA)	1				1		
6	SP	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	190	20	60	10	40	20	40
7	SSRBC	EARTH EXCAVATION	319				319		
8	SP	TRENCH BACKFILL	2,735	577	1,140	204	406	114	294
9	SP	POROUS GRANULAR BACKFILL	810	127	300	7	175	28	173
10	SP	TOPSOIL FURNISH AND PLACE, SPECIAL	484	132	118	46	74	53	61
11	SP	SODDING, SALT TOLERANT	4,380	1,200	1,065	415	670	475	555
12	SP	EXPLORATION TRENCH, SPECIAL (UP TO 8 FEET DEEP)	22	2	6	4	3	2	5
13	SP	EXPLORATION TRENCH BY TREE, SPECIAL (UP TO 2 FEET DEEP)	15	3	7	1	2	2	
14	SSRBC	INLET FILTERS	78	8	29	8	14	6	13
15	SP	AGGREGATE BASE COURSE, TYPE B, 4"	629	289	59	29	161	29	62
16	SP	AGGREGATE BASE COURSE, CA-6, 6"	310				310		
17	SP	H.E.S PORTLAND CEMENT CONCRETE BASE COURSE WIDENING, 9"	75	75					
18	SP	AGGREGATE FOR TEMPORARY ACCESS	260	126	40	5	84	2	3
19	SP	TEMPORARY HOT-MIX ASPHALT	290	40	80	30	40	40	60
20	SP	TEMPORARY COLD-MIX ASPHALT	110	20	20	10	20	20	20
21	SSRBC	BITUMINOUS MATERIALS (TACK COAT)	12,322	1,182	4,623	734	2,063	1,912	1,808
22	SSRBC	AGGREGATE (PRIME COAT)	37	4	14	2	6	6	5
23	SSRBC	MIXTURE FOR CRACKS, JOINTS, AND FLANGWAYS	7	1	2	1	1	1	1
24	SSRBC	LEVELING BINDER (MACHINE METHOD), N50	1,033	101	394	63	158	163	154
25	D1 DETAIL	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	288	16	100	61	40	21	50
26	D1 DETAIL	TEMPORARY RAMP	288	16	100	61	40	21	50
27	SSRBC	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	2,103	202	788	126	353	326	308
28	SP	HMA SURFACE REMOVAL, VARIABLE DEPTH	17,411	1,700	6,650	1,056	2,665	2,740	2,600
29	SP	PCC DRIVEWAY PAVEMENT, 6 INCH	265	37	165		45		18
30	SP	PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH	14,365	2,685	6,578	805	509	1,663	2,125
31	SP	DETECTABLE WARNING	320	10	100	10	40		120
32	SSRBC	PAVEMENT REMOVAL	160	160					
33	SSRBC	DRIVEWAY PAVEMENT REMOVAL	265	37	165		45		18
34	SSRBC	CONCRETE CURB REMOVAL	1,650	1,260				150	240
35	SSRBC	COMBINATION CURB AND GUTTER REMOVAL	1,267		250	125	662	50	150
36	SSRBC	SIDEWALK REMOVAL	14,781	2,685	6,578	805	925	1,663	2,125
37	SSRBC	CLASS C PATCHES, SPECIAL, 9" (H.E.S.)	310				310		
38	SP	CLASS D PATCHES, SPECIAL, 9"	1,450			195	325	140	790
39	SP	FULL DEPTH PATCHES, SPECIAL 11"	1,659	600	1,059				
40	SP	COMBINED SEWERS 8", SPECIAL (DIP CL 52)	33			33			
41	SP	STORM SEWERS 16", SPECIAL (DIP CL 52)	311				311		

ASHLAND AVENUE
(ASPHALT OVER MACADAM)

EXISTING

PROPOSED



NO.	DATE	REVISION
1		
2		
3		
4		

2025 WATER MAIN IMPROVEMENTS
AND STREET RESURFACING PROJECT
ASHLAND AVENUE (LYONS TO EMERSON)

SCALE	1" = 20' H 1" = 2' V
PROJECT NUMBER:	PW-WMRS-2502
BID NUMBER:	25-08
ISSUED FOR:	BID
DATE:	01/21/2025
DESIGNED BY:	AA
DRAWN BY:	AA, BN
CHECKED BY:	BN

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NOTE: (UNLESS SPECIFIED IN THE PLAN)

MAXIMUM TRENCH PAY WIDTHS:
WATER MAIN=4.0 FT. (5.0 FT. FOR TRENCH DEPTHS > 8')
SEWER MAIN=4.0 FT. (5.0 FT. FOR TRENCH DEPTHS > 8')

MAXIMUM PAVEMENT REMOVAL AND REPLACEMENT PAY WIDTHS:
WATER MAIN=6.0 FT. (7.0 FT. FOR TRENCH DEPTHS > 8')
SEWER MAIN=6.0 FT. (7.0 FT. FOR TRENCH DEPTHS > 8')
WATER OR SEWER STRUCTURES=8.0 FT X 8.0 FT
WATER OR SEWER STRUCTURES REMOVAL=6.0 FT X 6.0 FT
VALVE BOX REMOVAL=2.0 FT X 2.0 FT.

FOR WIDTHS IN EXCESS OF THE ABOVE, WILL NOT BE PAID SEPARATELY BUT CONSIDERED INCIDENTAL TO VARIOUS PAY ITEMS.

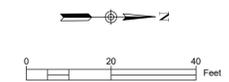
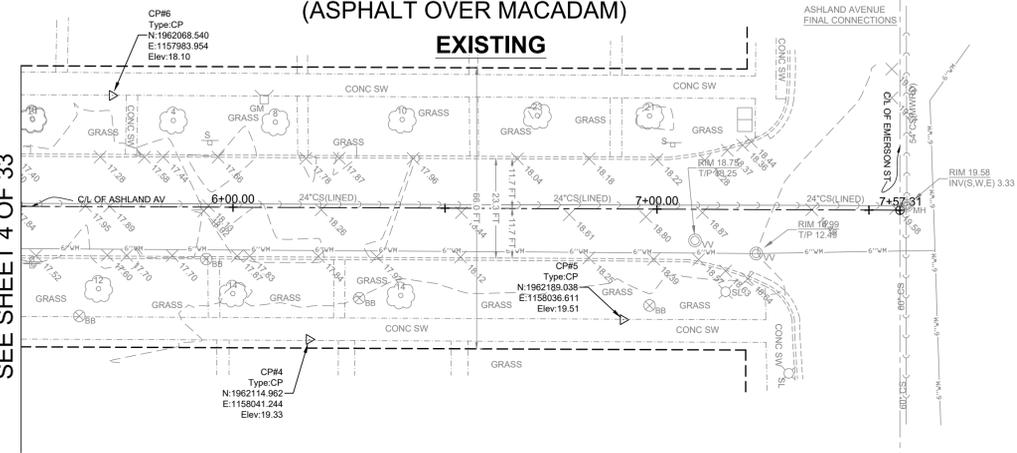
- NOTES:**
- ALL MATERIALS SHOULD BE "MADE IN AMERICA".
 - CITY REQUIRES THE USE OF STAINLESS STEEL BOLTS ON ALL FITTINGS OR MECHANICAL JOINT CONNECTIONS.
 - ALL SERVICES WILL BE TRACED BY WATER DIVISION PRIOR TO CONNECTION.
 - ALL NEW WATER SERVICES WILL BE 1.50" DIAMETER FOR EXISTING WATER SERVICES EQUAL OR LESS THAN 1.50" DIAMETER AND REQUIRED TO BE ALIGNED.
 - A WATERTIGHT CONNECTION CONFORMING TO ASTM C-923 SHALL BE BETWEEN ALL PROPOSED SEWERS THAT WILL CONNECT TO EXISTING OR PROPOSED STRUCTURES. ALL PIPE CONNECTIONS TO EXISTING MANHOLES SHALL HAVE RUBBER BOOTS CONFORMING TO ASTM C-923.
 - SEE MW/RD GENERAL NOTES #16 FOR PLUGGING (INCIDENTAL TO VARIOUS PAY ITEMS).
 - TEMPORARY FLUSHING FIRE HYDRANT WILL BE SUPPLIED BY THE CITY AND INSTALLED BY THE CONTRACTOR UTILIZING MEGA LUG COMPONENTS. PRIOR TO FINAL CONNECTIONS, CONTRACTOR SHALL REMOVE THE TEMPORARY HYDRANT AND NOTIFY THE CITY FOR PICK UP. (INCIDENTAL TO WATER MAIN WORK ITEMS, NO SEPARATE PAYMENT).
 - ALL NON-PRESSURE CONNECTIONS TO EXISTING WATER MAIN WILL NOT BE PAID FOR SEPARATELY BUT CONSIDERED INCIDENTAL TO WATER MAIN WORK ITEMS.
 - VITON GASKETS (FKM GASKETS) WILL ONLY BE USED WHEN CONTAMINATED SOILS ARE ENCOUNTERED.
 - EXPLORATORY TRENCH WILL BE FIELD DETERMINED AND APPROVED ONLY BY THE RESIDENT ENGINEER.

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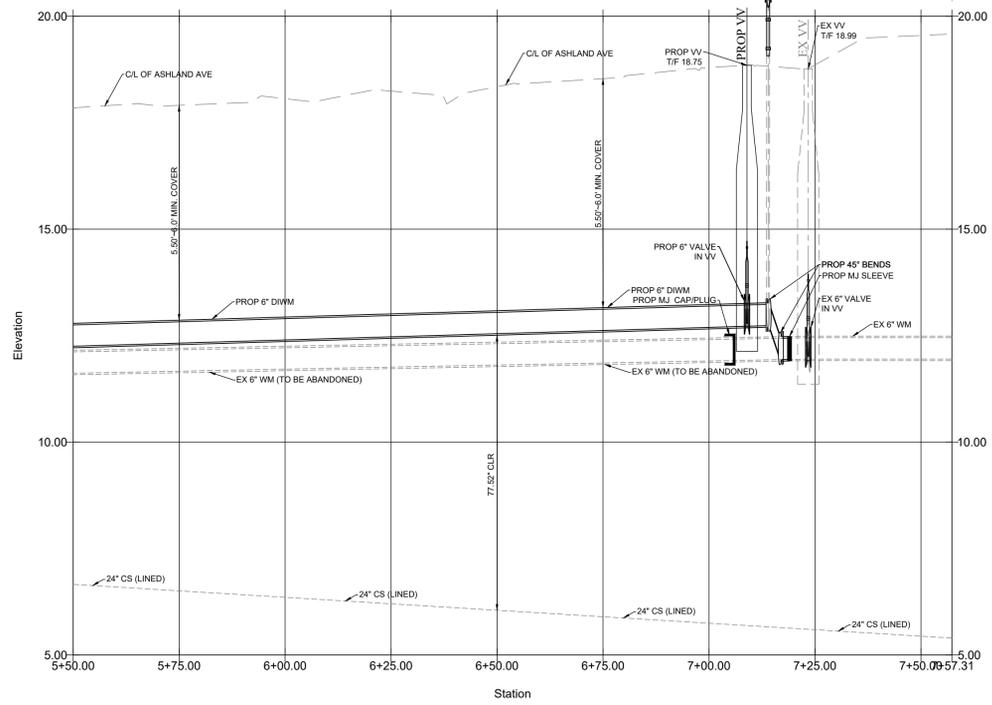
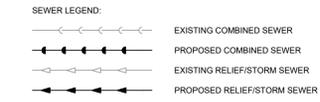
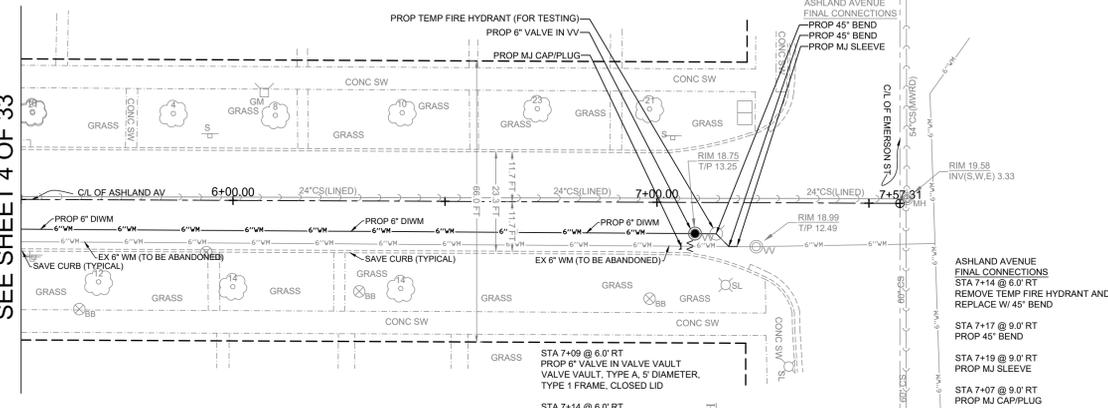
ASHLAND AVENUE (ASPHALT OVER MACADAM)

MATCHLINE STA. 5+50
SEE SHEET 4 OF 33



PROPOSED

MATCHLINE STA. 5+50
SEE SHEET 4 OF 33



NOTES:

1. ALL MATERIALS SHOULD BE "MADE IN AMERICA".
2. CITY REQUIRES THE USE OF STAINLESS STEEL BOLTS ON ALL FITTINGS OR MECHANICAL JOINT CONNECTIONS.
3. ALL SERVICES WILL BE TRACED BY WATER DIVISION PRIOR TO CONNECTION.
4. ALL NEW WATER SERVICES WILL BE 1.0" DIAMETER FOR EXISTING WATER SERVICES EQUAL OR LESS THAN 1.5" DIAMETER AND REQUIRED TO BE AUGERED.
5. A WATER-TIGHT CONNECTION CONFORMING TO ASTM C-923 SHALL BE BETWEEN ALL PROPOSED SEWERS THAT WILL CONNECT TO EXISTING OR PROPOSED STRUCTURES. ALL PIPE CONNECTIONS TO EXISTING MANHOLES SHALL HAVE RUBBER BOOTS CONFORMING TO ASTM C-923.
6. SEE MNRD GENERAL NOTES #16 FOR PLUGGING (INCIDENTAL TO VARIOUS PAY ITEMS).
7. TEMPORARY FLUSHING FIRE HYDRANT WILL BE SUPPLIED BY THE CITY, AND INSTALLED BY THE CONTRACTOR UTILIZING MEGA LUG COMPONENTS. PRIOR TO FINAL CONNECTIONS, CONTRACTOR SHALL REMOVE THE TEMPORARY HYDRANT AND NOTIFY THE CITY FOR PICK UP. (INCIDENTAL TO WATER MAIN WORK ITEMS, NO SEPARATE PAYMENT).
8. ALL NON-PRESSURE CONNECTIONS TO EXISTING WATER MAIN WILL NOT BE PAID FOR SEPARATELY BUT CONSIDERED INCIDENTAL TO WATER MAIN WORK ITEMS.
9. VITON GASKETS (FROM GASKETS) WILL ONLY BE USED WHEN CONTAMINATED SOILS ARE ENCOUNTERED.
10. EXPLORATORY TRENCH WILL BE FIELD DETERMINED AND APPROVED ONLY BY THE RESIDENT ENGINEER.

NOTE: (UNLESS SPECIFIED IN THE PLAN)
MAXIMUM TRENCH PAY WIDTHS:
 WATER MAIN=4.0 FT. (5.0 FT. FOR TRENCH DEPTHS > 8')
 SEWER MAIN=4.0 FT. (5.0 FT. FOR TRENCH DEPTHS > 8')
MAXIMUM PAVEMENT REMOVAL AND REPLACEMENT PAY WIDTHS:
 WATER MAIN=6.0 FT. (7.0 FT. FOR TRENCH DEPTHS > 8')
 SEWER MAIN=6.0 FT. (7.0 FT. FOR TRENCH DEPTHS > 8')
 WATER OR SEWER STRUCTURES=8.0 FT.X 8.0 FT.
 WATER OR SEWER STRUCTURES REMOVAL=6.0 FT.X 6.0 FT.
 VALVE BOX REMOVAL=2.0 FT.X 2.0 FT.
 FOR WIDTHS IN EXCESS OF THE ABOVE, WILL NOT BE PAID SEPARATELY BUT CONSIDERED INCIDENTAL TO VARIOUS PAY ITEMS.

2025 WATER MAIN IMPROVEMENTS AND STREET RESURFACING PROJECT ASHLAND AVENUE (LYONS TO EMERSON)

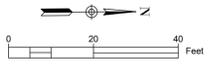
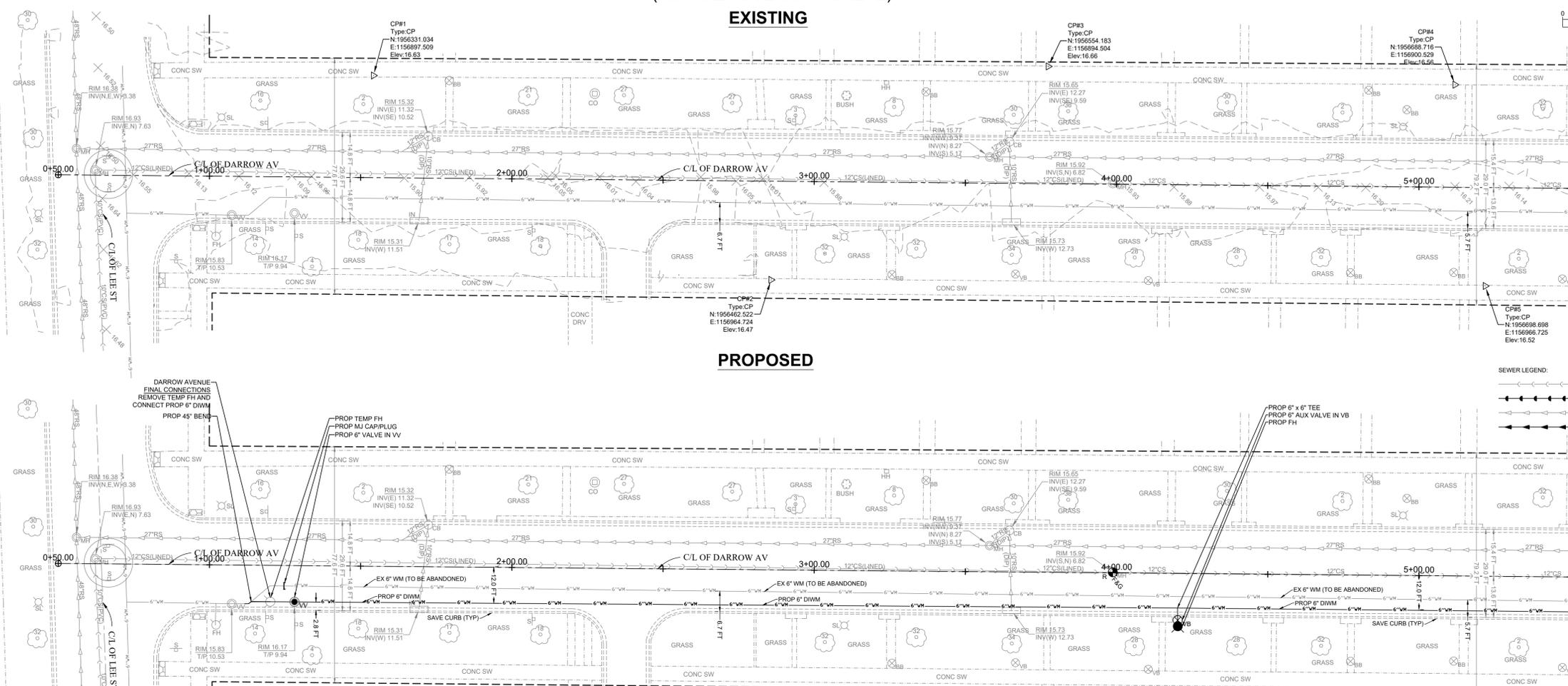
SCALE	1" = 20' H 1" = 2' V
PROJECT NUMBER:	PW-WMRS-2502
BID NUMBER:	25-08
ISSUED FOR:	CONSTRUCTION
DATE:	01/21/2025
DESIGNED BY:	AA
DRAWN BY:	AA, BN
CHECKED BY:	BN
SHEET	5 OF 33

NO.	DATE	REVISION
1		
2		
3		
4		

DARROW AVENUE
(ASPHALT OVER CONCRETE)
EXISTING

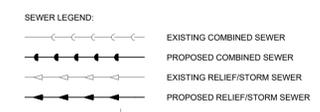
EXISTING

PROPOSED



MATCHLINE STA. 5+50
SEE SHEET 7 OF 33

MATCHLINE STA. 5+50
SEE SHEET 7 OF 33



DARROW AVENUE
FINAL CONNECTIONS
REMOVE TEMP FH AND
CONNECT PROP 6\"/>

DARROW AVENUE
FINAL CONNECTIONS
REMOVE TEMP FIRE HYDRANT AND
CONNECT THE PROP 6\"/>

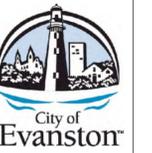
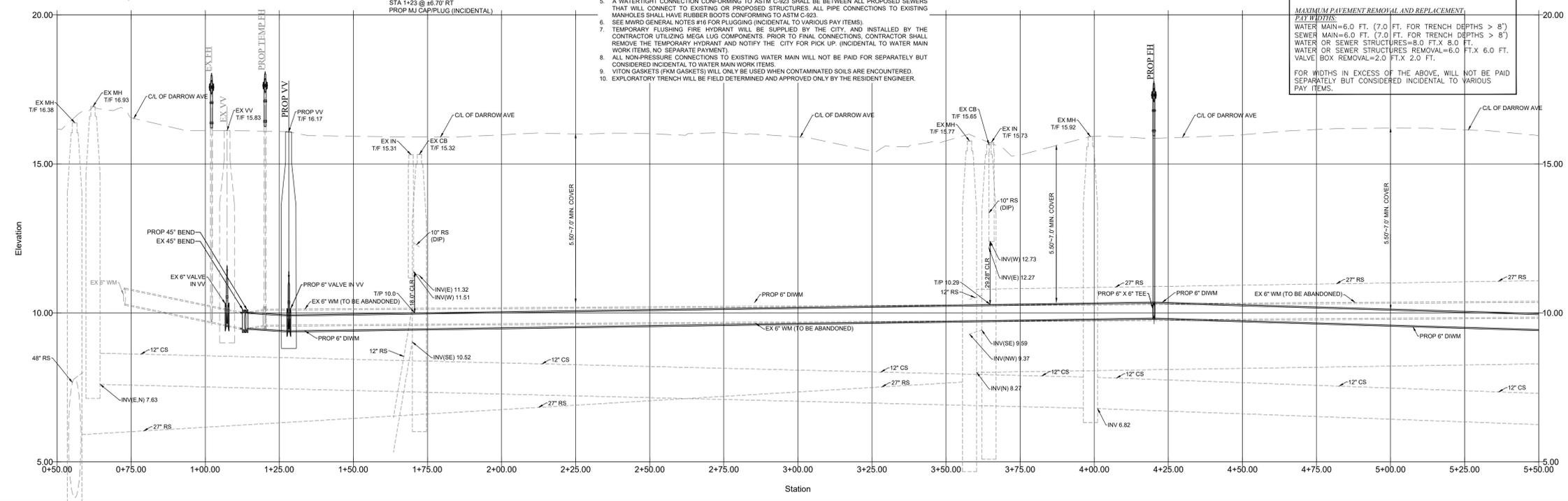
- NOTES:**
1. ALL MATERIALS SHOULD BE "MADE IN AMERICA".
 2. CITY REQUIRES THE USE OF STAINLESS STEEL BOLTS ON ALL FITTINGS OR MECHANICAL JOINT CONNECTIONS.
 3. ALL SERVICES WILL BE TRACED BY WATER DIVISION PRIOR TO CONNECTION.
 4. ALL NEW WATER SERVICES WILL BE 1.50\"/>

NOTE (UNLESS SPECIFIED IN THE PLAN)

MAXIMUM TRENCH PAY WIDTHS:
WATER MAIN=4.0 FT. (5.0 FT. FOR TRENCH DEPTHS > 8')
SEWER MAIN=4.0 FT. (5.0 FT. FOR TRENCH DEPTHS > 8')

MAXIMUM PAVEMENT REMOVAL AND REPLACEMENT PAY WIDTHS:
WATER MAIN=6.0 FT. (7.0 FT. FOR TRENCH DEPTHS > 8')
SEWER MAIN=6.0 FT. (7.0 FT. FOR TRENCH DEPTHS > 8')
WATER OR SEWER STRUCTURES=8.0 FT.X 8.0 FT.
WATER OR SEWER STRUCTURES REMOVAL=6.0 FT.X 6.0 FT.
VALVE BOX REMOVAL=2.0 FT.X 2.0 FT.

FOR WIDTHS IN EXCESS OF THE ABOVE, WILL NOT BE PAID SEPARATELY BUT CONSIDERED INCIDENTAL TO VARIOUS PAY ITEMS.



NO.	DATE	REVISION
1		
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**2025 WATER MAIN IMPROVEMENTS
AND STREET RESURFACING PROJECT
DARROW AVENUE (LEE TO DEMPSTER)**

SCALE
1" = 20' H
1" = 2' V

PROJECT NUMBER:
PW-WMRS-2502

BID NUMBER:
25-08

ISSUED FOR:
BID

DATE: 01/21/2025

DESIGNED BY: AA

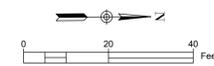
DRAWN BY: AA, BN

CHECKED BY: BN

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DARROW AVENUE
(ASPHALT OVER CONCRETE)
EXISTING

PROPOSED

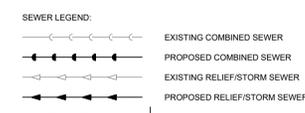
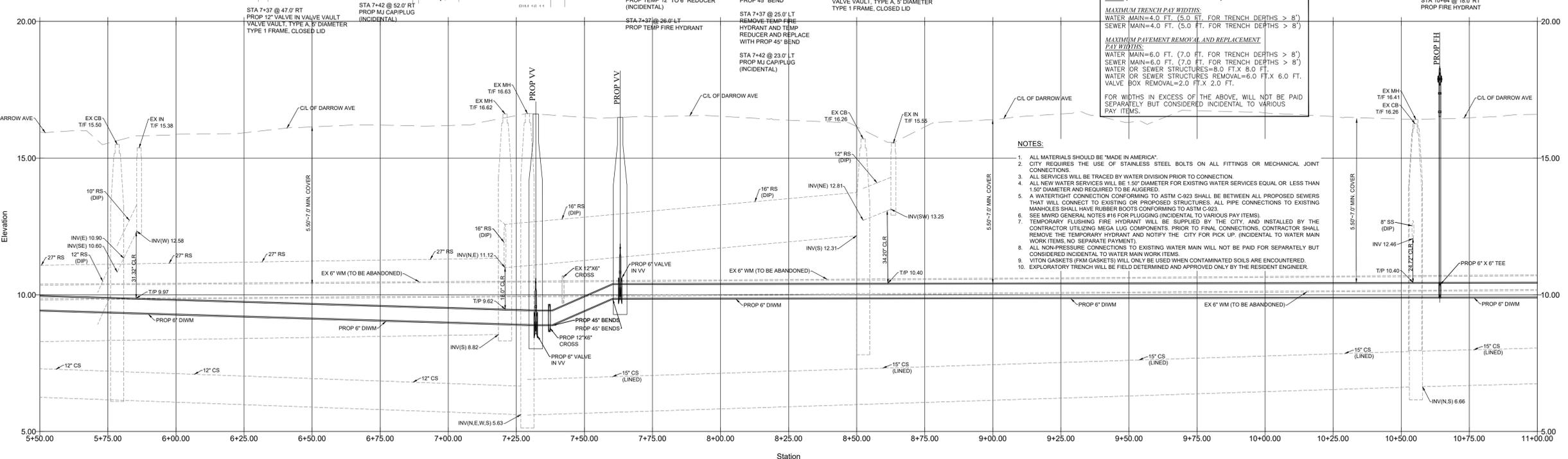
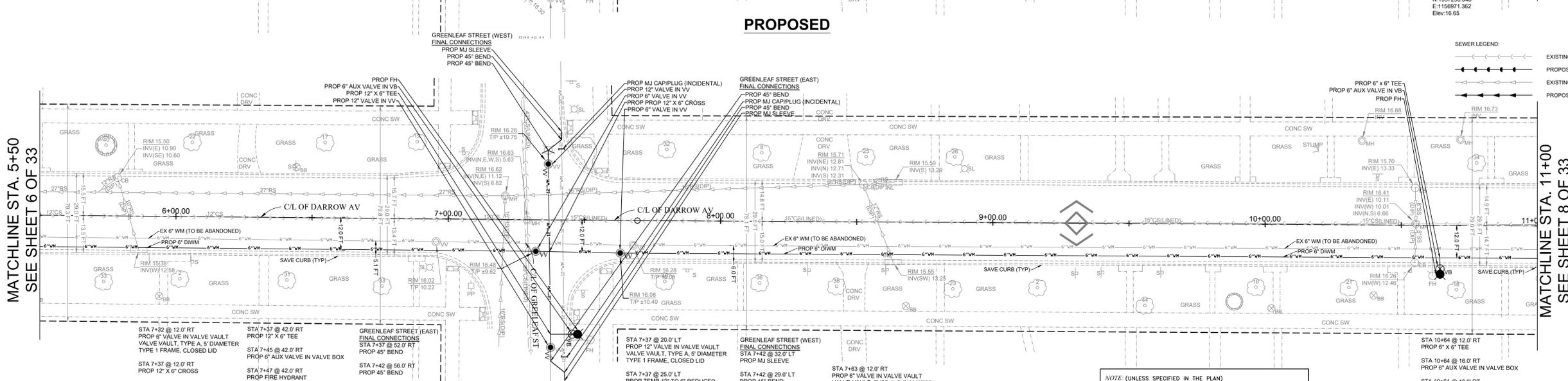
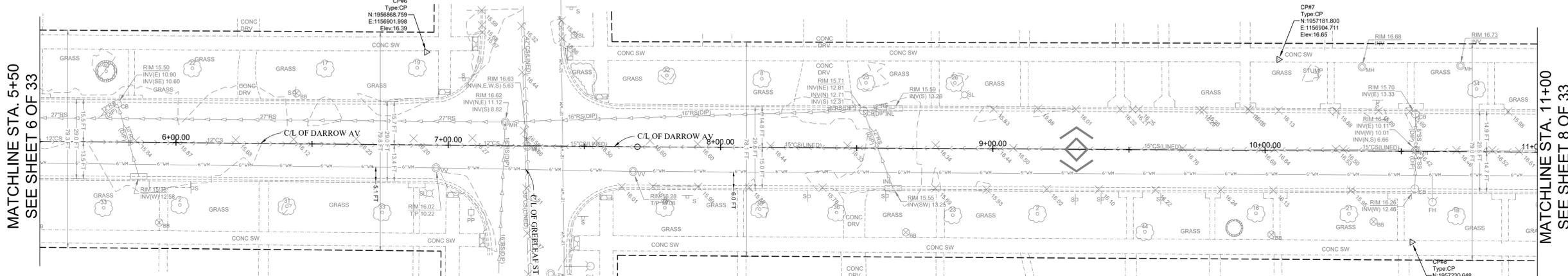


MATCHLINE STA. 5+50
SEE SHEET 6 OF 33

MATCHLINE STA. 5+50
SEE SHEET 6 OF 33

MATCHLINE STA. 11+00
SEE SHEET 8 OF 33

MATCHLINE STA. 11+00
SEE SHEET 8 OF 33



NOTE (UNLESS SPECIFIED IN THE PLAN)
MAXIMUM TRENCH PAY WIDTHS:
 WATER MAIN=4.0 FT. (5.0 FT. FOR TRENCH DEPTHS > 8')
 SEWER MAIN=4.0 FT. (5.0 FT. FOR TRENCH DEPTHS > 8')
MAXIMUM PAVEMENT REMOVAL AND REPLACEMENT PAY WIDTHS:
 WATER MAIN=6.0 FT. (7.0 FT. FOR TRENCH DEPTHS > 8')
 SEWER MAIN=6.0 FT. (7.0 FT. FOR TRENCH DEPTHS > 8')
 WATER OR SEWER STRUCTURES REMOVAL=6.0 FT. X 6.0 FT.
 VALVE BOX REMOVAL=2.0 FT. X 2.0 FT.
 FOR WIDTHS IN EXCESS OF THE ABOVE, WILL NOT BE PAID SEPARATELY BUT CONSIDERED INCIDENTAL TO VARIOUS PAY ITEMS.

- NOTES:**
1. ALL MATERIALS SHOULD BE "MADE IN AMERICA"
 2. CITY REQUIRES THE USE OF STAINLESS STEEL BOLTS ON ALL FITTINGS OR MECHANICAL JOINT CONNECTIONS.
 3. ALL SERVICES WILL BE TRACED BY WATER DIVISION PRIOR TO CONNECTION.
 4. ALL NEW WATER SERVICES WILL BE 1.50" DIAMETER FOR EXISTING WATER SERVICES EQUAL OR LESS THAN 1.50" DIAMETER AND REQUIRED TO BE AUGERED.
 5. A WATER TIGHT CONNECTION CONFORMING TO ASTM C-923 SHALL BE BETWEEN ALL PROPOSED SEWERS THAT WILL CONNECT TO EXISTING OR PROPOSED STRUCTURES. ALL PIPE CONNECTIONS TO EXISTING MANHOLES SHALL HAVE RUBBER BOOTS CONFORMING TO ASTM C-923.
 6. SEE MWD GENERAL NOTES #18 FOR FLUGGING (INCIDENTAL TO VARIOUS PAY ITEMS).
 7. TEMPORARY FLUSHING FIRE HYDRANT WILL BE SUPPLIED BY THE CITY, AND INSTALLED BY THE CONTRACTOR UTILIZING MEGA LUG COMPONENTS PRIOR TO FINAL CONNECTIONS. CONTRACTOR SHALL REMOVE THE TEMPORARY HYDRANT AND NOTIFY THE CITY FOR PICK UP. (INCIDENTAL TO WATER MAIN WORK ITEMS. NO SEPARATE PAYMENT)
 8. ALL NON-PRESSURE CONNECTIONS TO EXISTING WATER MAIN WILL NOT BE PAID FOR SEPARATELY BUT CONSIDERED INCIDENTAL TO WATER MAIN WORK ITEMS.
 9. VITON GASKETS (FKM GASKETS) WILL ONLY BE USED WHEN CONTAMINATED SOILS ARE ENCOUNTERED.
 10. EXPLORATORY TRENCH WILL BE FIELD DETERMINED AND APPROVED ONLY BY THE RESIDENT ENGINEER.

NO.	DATE	REVISION
1		
2		
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**2025 WATER MAIN IMPROVEMENTS
AND STREET RESURFACING PROJECT
DARROW AVENUE (LEE TO DEMPSTER)**

SCALE
1" = 20' H
1" = 2' V

PROJECT NUMBER:
PW-WMRS-2502

BID NUMBER:
25-08

ISSUED FOR:
BID

DATE: 01/21/2025

DESIGNED BY: AA

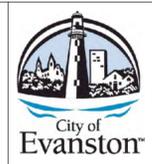
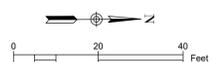
DRAWN BY: AA, BN

CHECKED BY: BN

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DARROW AVENUE
(ASPHALT OVER CONCRETE)

EXISTING



MATCHLINE STA. 11+00
SEE SHEET 7 OF 33

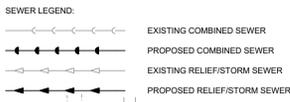
MATCHLINE STA. 16+50
SEE SHEET 9 OF 33

MATCHLINE STA. 11+00
SEE SHEET 7 OF 33

MATCHLINE STA. 16+50
SEE SHEET 9 OF 33

PROPOSED

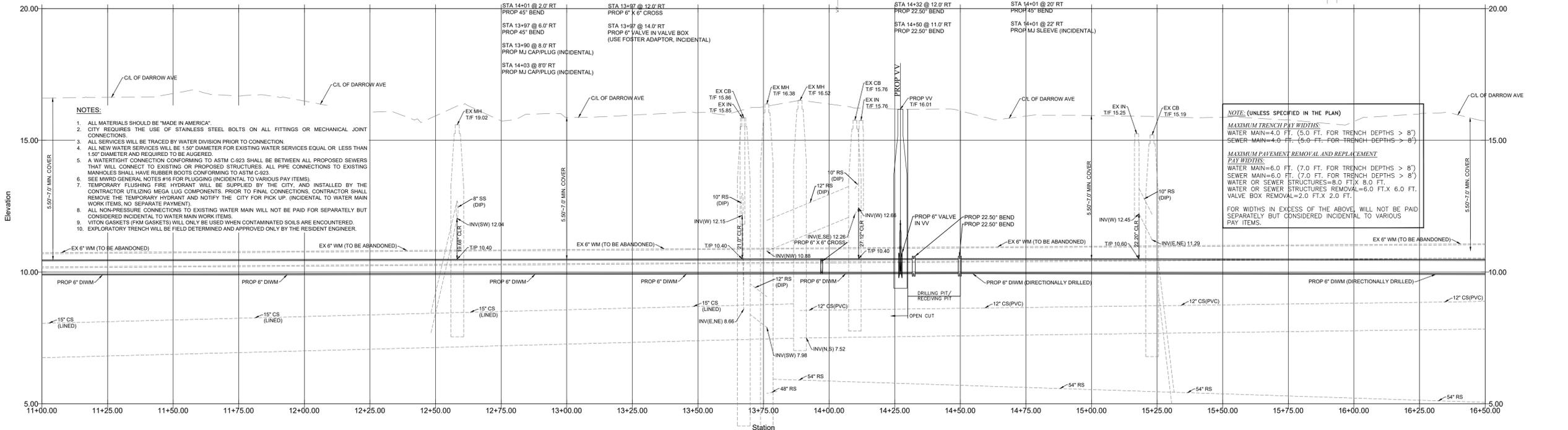
THE PROPOSED DIRECTIONALLY DRILLED 6" DIWM DEPTH
WILL BE FIELD DETERMINED. AFTER THE EXPLORATORY
TRENCHES SURVEYS ON THE EXISTING UTILITIES, SEWER
AND WATER SERVICES, APPROXIMATE COVER WILL BE 5.50
FT. - 7.0 FT. (CRAIN STREET TO DEMPSTER STREET)



NOTES:

1. ALL MATERIALS SHOULD BE "MADE IN AMERICA".
2. CITY REQUIRES THE USE OF STAINLESS STEEL BOLTS ON ALL FITTINGS OR MECHANICAL JOINT CONNECTIONS.
3. ALL SERVICES WILL BE TRACED BY WATER DIVISION PRIOR TO CONNECTION.
4. ALL NEW WATER SERVICES WILL BE 1.5" DIAMETER FOR EXISTING WATER SERVICES EQUAL OR LESS THAN 1.5" DIAMETER AND REQUIRED TO BE AUGERED.
5. A WATERTIGHT CONNECTION CONFORMING TO ASTM C923 SHALL BE BETWEEN ALL PROPOSED SEWERS THAT WILL CONNECT TO EXISTING OR PROPOSED STRUCTURES. ALL PIPE CONNECTIONS TO EXISTING MANHOLES SHALL HAVE RUBBER BOOTS CONFORMING TO ASTM C-923.
6. SEE MWD GENERAL NOTES #10 FOR PLUGGING (INCIDENTAL TO VARIOUS PAY ITEMS).
7. TEMPORARY FLUSHING FIRE HYDRANT WILL BE SUPPLIED BY THE CITY, AND INSTALLED BY THE CONTRACTOR UTILIZING MEGA LUG COMPONENTS. PRIOR TO FINAL CONNECTIONS, CONTRACTOR SHALL REMOVE THE TEMPORARY HYDRANT AND NOTIFY THE CITY FOR PICK UP. (INCIDENTAL TO WATER MAIN WORK ITEMS, NO SEPARATE PAYMENT).
8. ALL NON-PRESSURE CONNECTIONS TO EXISTING WATER MAIN WILL NOT BE PAID FOR SEPARATELY BUT CONSIDERED INCIDENTAL TO WATER MAIN WORK ITEMS.
9. VITON GASKETS (FKM GASKETS) WILL ONLY BE USED WHEN CONTAMINATED SOILS ARE ENCOUNTERED.
10. EXPLORATORY TRENCH WILL BE FIELD DETERMINED AND APPROVED ONLY BY THE RESIDENT ENGINEER.

NOTE (UNLESS SPECIFIED IN THE PLAN)
MAXIMUM TRENCH PAY WIDTHS:
WATER MAIN=4.0 FT. (5.0 FT. FOR TRENCH DEPTHS > 8')
SEWER MAIN=4.0 FT. (5.0 FT. FOR TRENCH DEPTHS > 8')
MAXIMUM PAVEMENT REMOVAL AND REPLACEMENT
PAY WIDTHS:
WATER MAIN=6.0 FT. (7.0 FT. FOR TRENCH DEPTHS > 8')
SEWER MAIN=6.0 FT. (7.0 FT. FOR TRENCH DEPTHS > 8')
WATER OR SEWER STRUCTURES=8.0 FT X 8.0 FT.
WATER OR SEWER STRUCTURES REMOVAL=6.0 FT X 6.0 FT.
VALVE BOX REMOVAL=2.0 FT X 2.0 FT.
FOR WIDTHS IN EXCESS OF THE ABOVE WILL NOT BE PAID SEPARATELY BUT CONSIDERED INCIDENTAL TO VARIOUS PAY ITEMS.



Elevation

Station

NO.	DATE	REVISION
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2025 WATER MAIN IMPROVEMENTS
AND STREET RESURFACING PROJECT
DARROW AVENUE (LEE TO DEMPSTER)

SCALE
1" = 20' H
1" = 2' V

PROJECT NUMBER:
PW-WMRS-2502

BID NUMBER:
25-08

ISSUED FOR:
BID

DATE: 01/21/2025

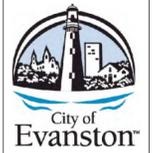
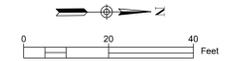
DESIGNED BY: AA

DRAWN BY: AA, BN

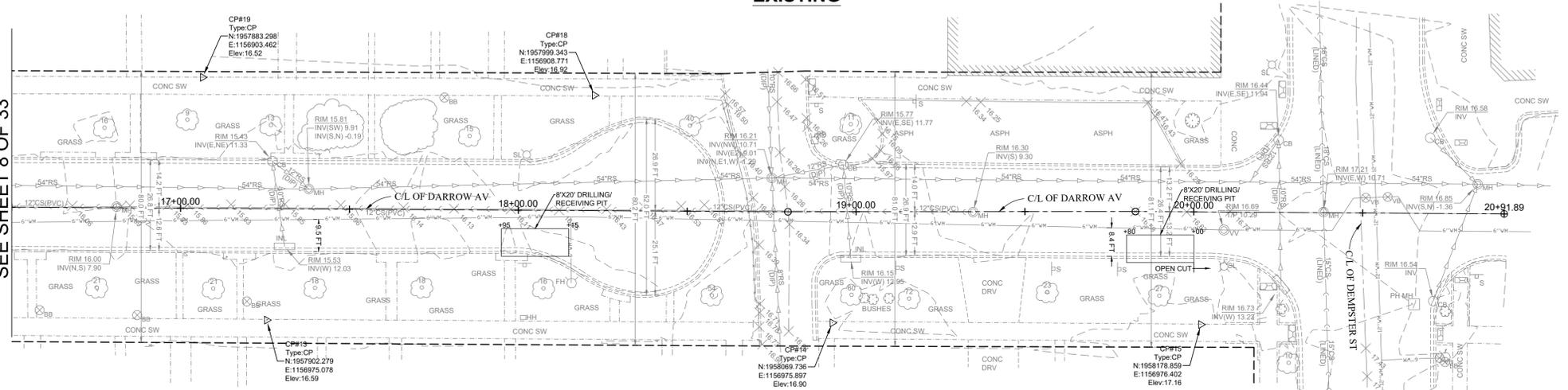
CHECKED BY: BN

SHEET
8 OF 33

DARROW AVENUE
(ASPHALT OVER MACADAM)
EXISTING



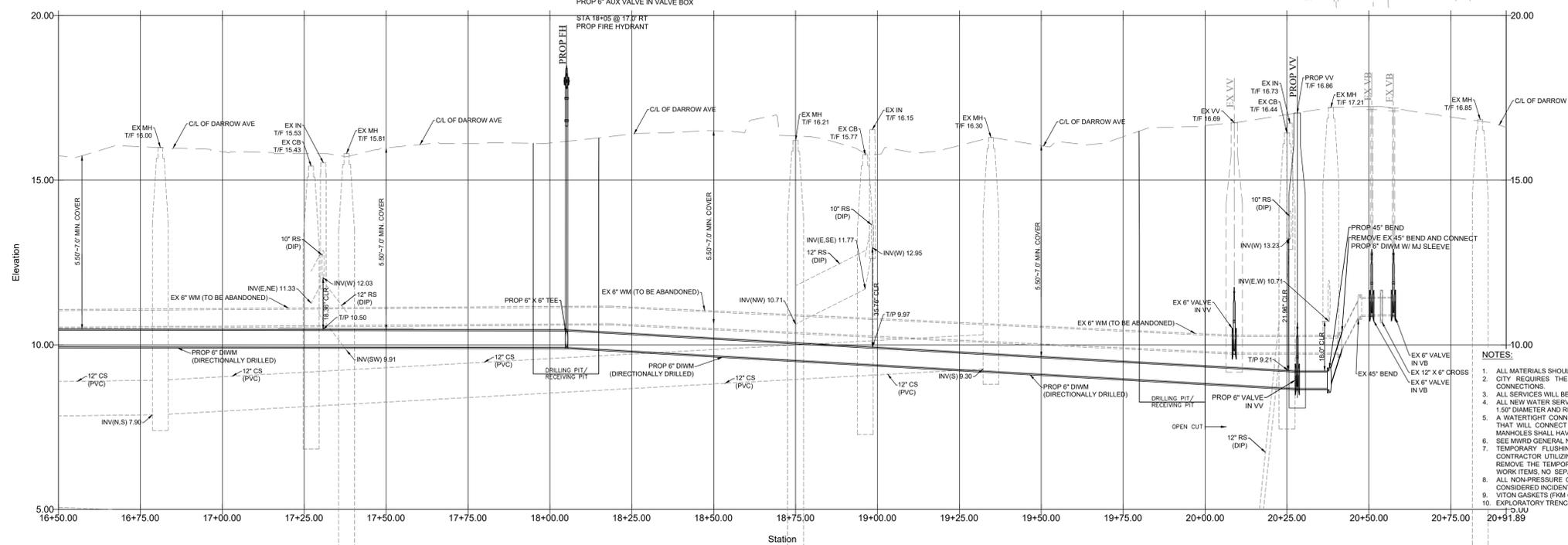
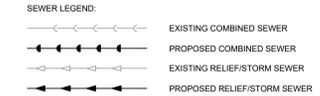
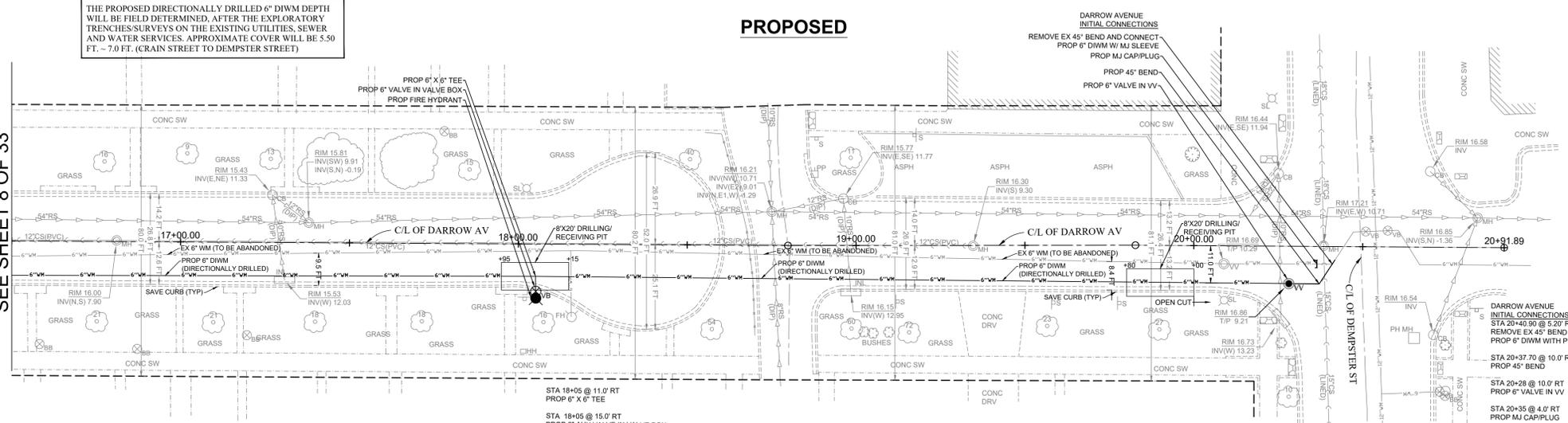
MATCHLINE STA. 16+50
SEE SHEET 8 OF 33



THE PROPOSED DIRECTIONALLY DRILLED 6" DIWM DEPTH WILL BE FIELD DETERMINED, AFTER THE EXPLORATORY TRENCHES SURVEYS ON THE EXISTING UTILITIES, SEWER AND WATER SERVICES. APPROXIMATE COVER WILL BE 5.50 FT. - 7.0 FT. (CRAIN STREET TO DEMPSTER STREET)

PROPOSED

MATCHLINE STA. 16+50
SEE SHEET 8 OF 33



NOTE: (UNLESS SPECIFIED IN THE PLAN)
MAXIMUM TRENCH PAY WIDTHS:
 WATER MAIN=4.0 FT. (5.0 FT. FOR TRENCH DEPTHS > 8')
 SEWER MAIN=4.0 FT. (5.0 FT. FOR TRENCH DEPTHS > 8')
MAXIMUM PAYMENT REMOVAL AND REPLACEMENT PAY WIDTHS:
 WATER MAIN=6.0 FT. (7.0 FT. FOR TRENCH DEPTHS > 8')
 SEWER MAIN=6.0 FT. (7.0 FT. FOR TRENCH DEPTHS > 8')
 WATER OR SEWER STRUCTURES=8.0 FT.X 8.0 FT.
 WATER OR SEWER STRUCTURES REMOVAL=6.0 FT.X 6.0 FT.
 VALVE BOX REMOVAL=2.0 FT.X 2.0 FT.

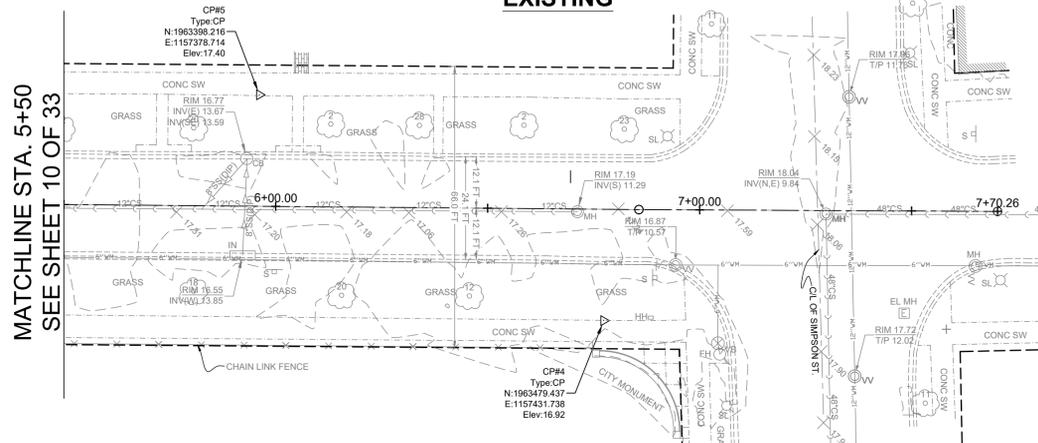
- NOTES:**
1. ALL MATERIALS SHOULD BE "MADE IN AMERICA".
 2. CITY REQUIRES THE USE OF STAINLESS STEEL BOLTS ON ALL FITTINGS OR MECHANICAL JOINT CONNECTIONS.
 3. ALL SERVICES WILL BE TRACED BY WATER DIVISION PRIOR TO CONNECTION.
 4. ALL NEW WATER SERVICES WILL BE 1.5" DIAMETER FOR EXISTING WATER SERVICES EQUAL OR LESS THAN 1.5" DIAMETER AND REQUIRED TO BE AUGERED.
 5. A WATERTIGHT CONNECTION CONFORMING TO ASTM C-923 SHALL BE BETWEEN ALL PROPOSED SEWERS THAT WILL CONNECT TO EXISTING OR PROPOSED STRUCTURES. ALL PIPE CONNECTIONS TO EXISTING MANHOLES SHALL HAVE RUBBER BOOTS CONFORMING TO ASTM C-923.
 6. SEE MVRD GENERAL NOTES #18 FOR PLUGGING (INCIDENTAL TO VARIOUS PAY ITEMS).
 7. TEMPORARY FLUSHING FIRE HYDRANT WILL BE SUPPLIED BY THE CITY, AND INSTALLED BY THE CONTRACTOR UTILIZING MEGA LUG COMPONENTS. PRIOR TO FINAL CONNECTIONS, CONTRACTOR SHALL REMOVE THE TEMPORARY HYDRANT AND NOTIFY THE CITY FOR PICK UP. (INCIDENTAL TO WATER MAIN WORK ITEMS, NO SEPARATE PAYMENT).
 8. ALL NON-PRESSURE CONNECTIONS TO EXISTING WATER MAIN WILL NOT BE PAID FOR SEPARATELY BUT CONSIDERED INCIDENTAL TO WATER MAIN WORK ITEMS.
 9. VITON GASKETS (FKM GASKETS) WILL ONLY BE USED WHEN CONTAMINATED SOILS ARE ENCOUNTERED.
 10. EXPLORATORY TRENCH WILL BE FIELD DETERMINED AND APPROVED ONLY BY THE RESIDENT ENGINEER.

**2025 WATER MAIN IMPROVEMENTS
AND STREET RESURFACING PROJECT
DARROW AVENUE (LEE TO DEMPSTER)**

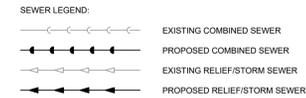
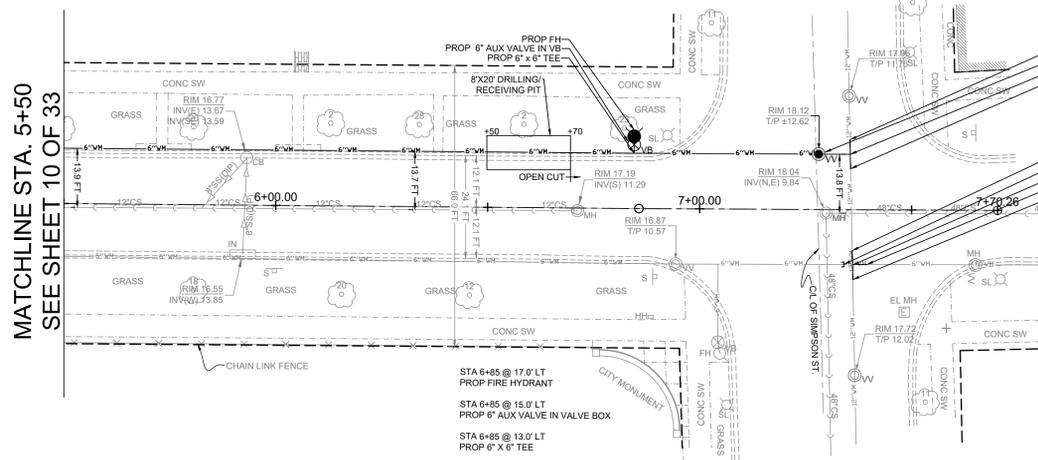
NO.	DATE	REVISION
1		
2		
3		
4		

SCALE	1" = 20' H 1" = 2' V
PROJECT NUMBER:	PW-WMRS-2502
BID NUMBER:	25-08
ISSUED FOR:	BID
DATE:	01/21/2025
DESIGNED BY:	AA
DRAWN BY:	AA, BN
CHECKED BY:	BN
SHEET	9 OF 33

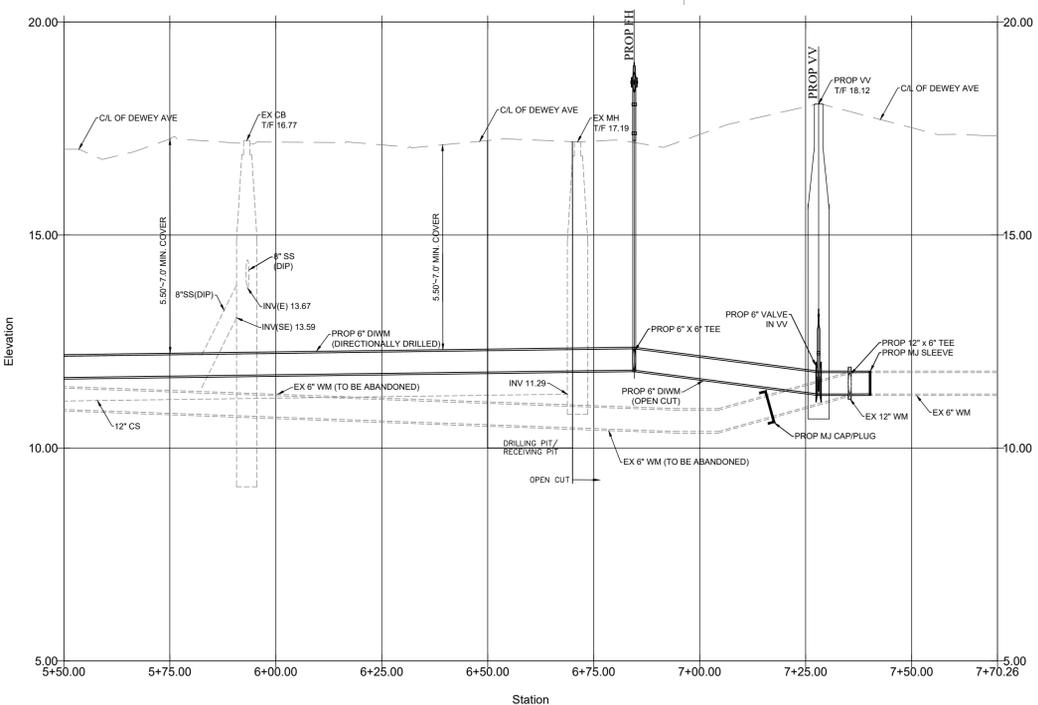
DEWEY AVENUE
(ASPHALT OVER MACADAM)
EXISTING



PROPOSED



THE PROPOSED DIRECTIONALLY DRILLED 6" DIWM DEPTH WILL BE FIELD DETERMINED, AFTER THE EXPLORATORY TRENCHES SURVEYS ON THE EXISTING UTILITIES, SEWER AND WATER SERVICES. APPROXIMATE COVER WILL BE 5.50 FT. - 7.0 FT. (FOSTER STREET TO SIMPSON STREET)



- DEWEY AVENUE (SOUTH AND NORTH) INITIAL CONNECTIONS
- STA 7+35 @ 13.0' LT (SOUTH) PROP MJ SLEEVE
 - STA 7+35 @ 10.0' RT (SOUTH) PROP MJ SLEEVE
 - STA 7+35 @ 10.0' RT (NORTH) PROP MJ SLEEVE
 - STA 7+35 @ 13.0' RT (NORTH) REMOVE EXISTING CROSS AND REPLACE WITH PROP 12" X 6" TEE
 - STA 7+38 @ 13.0' RT (NORTH) PROP MJ SLEEVE
 - STA 7+35 @ 16.0' RT (NORTH) PROP MJ SLEEVE
 - STA 7+30 @ 13.0' RT (NORTH) PROP MJ CAP/PLUG

NOTES:

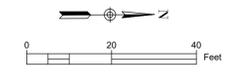
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3. ALL SERVICES WILL BE TRACED BY WATER DIVISION PRIOR TO CONNECTION.
4. ALL NEW WATER SERVICES WILL BE 1.50" DIAMETER FOR EXISTING WATER SERVICES EQUAL OR LESS THAN 1.50" DIAMETER AND REQUIRED TO BE AUGERED.
5. A WATERTIGHT CONNECTION CONFORMING TO ASTM C-923 SHALL BE BETWEEN ALL PROPOSED SEWERS THAT WILL CONNECT TO EXISTING OR PROPOSED STRUCTURES. ALL PIPE CONNECTIONS TO EXISTING MANHOLES SHALL HAVE RUBBER BOOTS CONFORMING TO ASTM C-923.
6. SEE MWRD GENERAL NOTES #16 FOR PLUGGING (INCIDENTAL TO VARIOUS PAY ITEMS).
7. TEMPORARY FLUSHING FIRE HYDRANT WILL BE SUPPLIED BY THE CITY, AND INSTALLED BY THE CONTRACTOR UTILIZING MEGA LUG COMPONENTS. PRIOR TO FINAL CONNECTIONS, CONTRACTOR SHALL REMOVE THE TEMPORARY HYDRANT AND NOTIFY THE CITY FOR PICK UP. (INCIDENTAL TO WATER MAIN WORK ITEMS, NO SEPARATE PAYMENT).
8. ALL NON-PRESSURE CONNECTIONS TO EXISTING WATER MAIN WILL NOT BE PAID FOR SEPARATELY BUT CONSIDERED INCIDENTAL TO WATER MAIN WORK ITEMS.
9. VITON GASKETS (FRM GASKETS) WILL ONLY BE USED WHEN CONTAMINATED SOILS ARE ENCOUNTERED.
10. EXPLORATORY TRENCH WILL BE FIELD DETERMINED AND APPROVED ONLY BY THE RESIDENT ENGINEER.

NOTE: (UNLESS SPECIFIED IN THE PLAN)

MAXIMUM TRENCH PAY WIDTHS:
WATER MAIN=4.0 FT. (5.0 FT. FOR TRENCH DEPTHS > 8')
SEWER MAIN=4.0 FT. (5.0 FT. FOR TRENCH DEPTHS > 8')

MAXIMUM PAVEMENT REMOVAL AND REPLACEMENT PAY WIDTHS:
WATER MAIN=6.0 FT. (7.0 FT. FOR TRENCH DEPTHS > 8')
SEWER MAIN=6.0 FT. (7.0 FT. FOR TRENCH DEPTHS > 8')
WATER OR SEWER STRUCTURES=6.0 FT. X 6.0 FT.
VALVE BOX REMOVAL=2.0 FT. X 2.0 FT.

FOR WIDTHS IN EXCESS OF THE ABOVE, WILL NOT BE PAID SEPARATELY BUT CONSIDERED INCIDENTAL TO VARIOUS PAY ITEMS.



NO.	DATE	REVISION
1		
2		
3		
4		

**2025 WATER MAIN IMPROVEMENTS
AND STREET RESURFACING PROJECT
DEWEY AVENUE (FOSTER TO SIMPSON)**

SCALE
1" = 20' H
1" = 2' V

PROJECT NUMBER:
PW-WMRS-2502

BID NUMBER:
25-08

ISSUED FOR:
BID

DATE: 01/21/2025

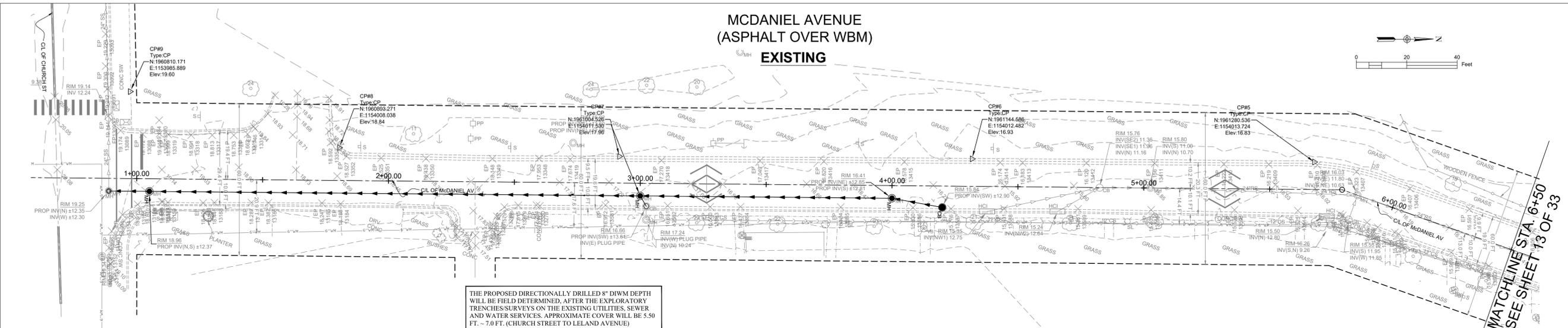
DESIGNED BY: AA

DRAWN BY: AA, BN

CHECKED BY: BN

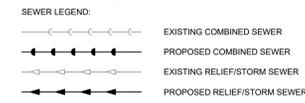
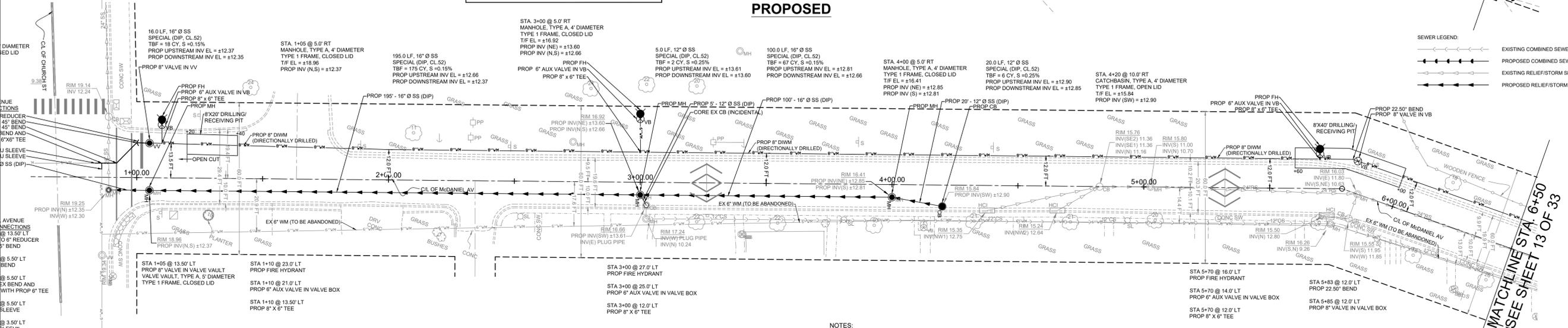
SHEET
11 OF 33

MCDANIEL AVENUE
(ASPHALT OVER WBM)
EXISTING

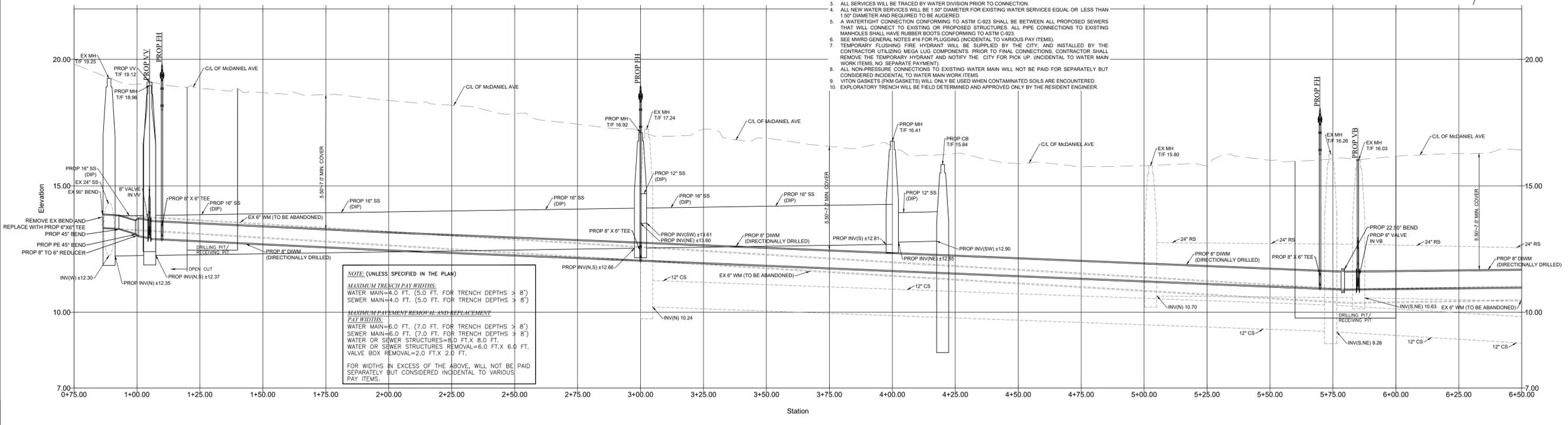


THE PROPOSED DIRECTIONALLY DRILLED 8" DIWM DEPTH WILL BE FIELD DETERMINED. AFTER THE EXPLORATORY TRENCH SURVEYS ON THE EXISTING UTILITIES, SEWER AND WATER SERVICES. APPROXIMATE COVER WILL BE 5.50 FT. - 7.0 FT. (CHURCH STREET TO LELAND AVENUE)

PROPOSED



- NOTES:
- ALL MATERIALS SHOULD BE "MADE IN AMERICA"
 - CITY REQUIRES THE USE OF STAINLESS STEEL BOLTS ON ALL FITTINGS OR MECHANICAL JOINT CONNECTIONS.
 - ALL SERVICES WILL BE TRACED BY WATER DIVISION PRIOR TO CONNECTION.
 - ALL NEW WATER SERVICES WILL BE 1.5" DIAMETER FOR EXISTING WATER SERVICES EQUAL OR LESS THAN 1.5" DIAMETER AND REQUIRED TO BE AUGERED.
 - A WATERTIGHT CONNECTION CONFORMING TO ASTM C-923 SHALL BE BETWEEN ALL PROPOSED SEWERS THAT WILL CONNECT TO EXISTING OR PROPOSED STRUCTURES. ALL PIPE CONNECTIONS TO EXISTING MANHOLES SHALL HAVE RUBBER BOOTS CONFORMING TO ASTM C-923.
 - SEE MWWD GENERAL NOTES #16 FOR PLUGGING (INCIDENTAL TO VARIOUS PAY ITEMS).
 - TEMPORARY FLUSHING FIRE HYDRANT WILL BE SUPPLIED BY THE CITY, AND INSTALLED BY THE CONTRACTOR UTILIZING MEGA LUG COMPONENTS. PRIOR TO FINAL CONNECTIONS, CONTRACTOR SHALL REMOVE THE TEMPORARY HYDRANT AND NOTIFY THE CITY FOR PICK UP. (INCIDENTAL TO WATER MAIN WORK ITEMS, NO SEPARATE PAYMENT).
 - ALL NON-PRESSURE CONNECTIONS TO EXISTING WATER MAIN WILL NOT BE PAID FOR SEPARATELY BUT CONSIDERED INCIDENTAL TO WATER MAIN WORK ITEMS.
 - VITON GASKETS (PM GASKETS) WILL ONLY BE USED WHEN CONTAMINATED SOILS ARE ENCOUNTERED.
 - EXPLORATORY TRENCH WILL BE FIELD DETERMINED AND APPROVED ONLY BY THE RESIDENT ENGINEER.



NOTE: (UNLESS SPECIFIED IN THE PLAN)
MAXIMUM TRENCH PAY WIDTHS:
 WATER MAIN=4.0 FT. (5.0 FT. FOR TRENCH DEPTHS > 8')
 SEWER MAIN=4.0 FT. (5.0 FT. FOR TRENCH DEPTHS > 8')
MAXIMUM PAVEMENT REMOVAL AND REPLACEMENT PAY WIDTHS:
 WATER MAIN=6.0 FT. (7.0 FT. FOR TRENCH DEPTHS > 8')
 SEWER MAIN=6.0 FT. (7.0 FT. FOR TRENCH DEPTHS > 8')
 WATER OR SEWER STRUCTURES REMOVAL=8.0 FT.X 8.0 FT.
 VALVE BOX REMOVAL=2.0 FT.X 2.0 FT.
 FOR WIDTHS IN EXCESS OF THE ABOVE, WILL NOT BE PAID SEPARATELY BUT CONSIDERED INCIDENTAL TO VARIOUS PAY ITEMS.

2025 WATER MAIN IMPROVEMENTS
AND STREET RESURFACING PROJECT
MCDANIEL AVE (CHURCH TO LELAND)

NO.	DATE	REVISION
1		
2		
3		
4		

SCALE	1" = 20' H 1" = 2' V
PROJECT NUMBER:	PW-WMRS-2502
BID NUMBER:	25-08
ISSUED FOR:	BID
DATE:	01/21/2025
DESIGNED BY:	AA
DRAWN BY:	AA, BN
CHECKED BY:	BN
SHEET	12 OF 33

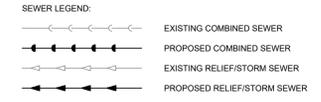
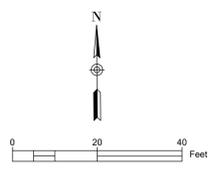
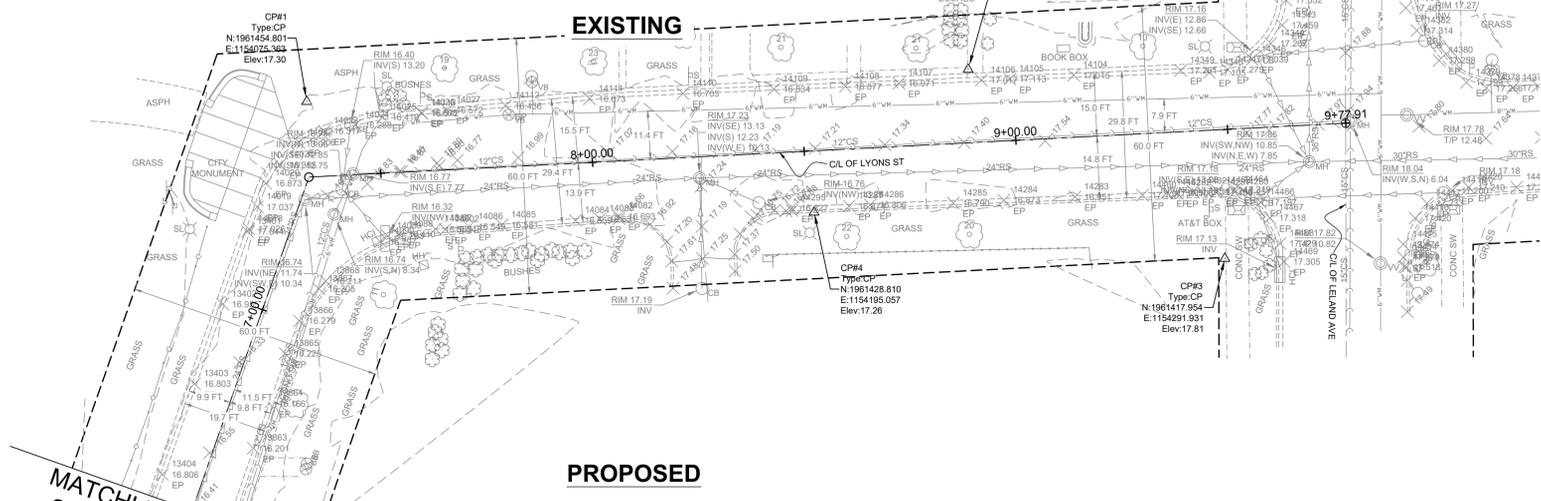
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NO.	DATE	REVISION
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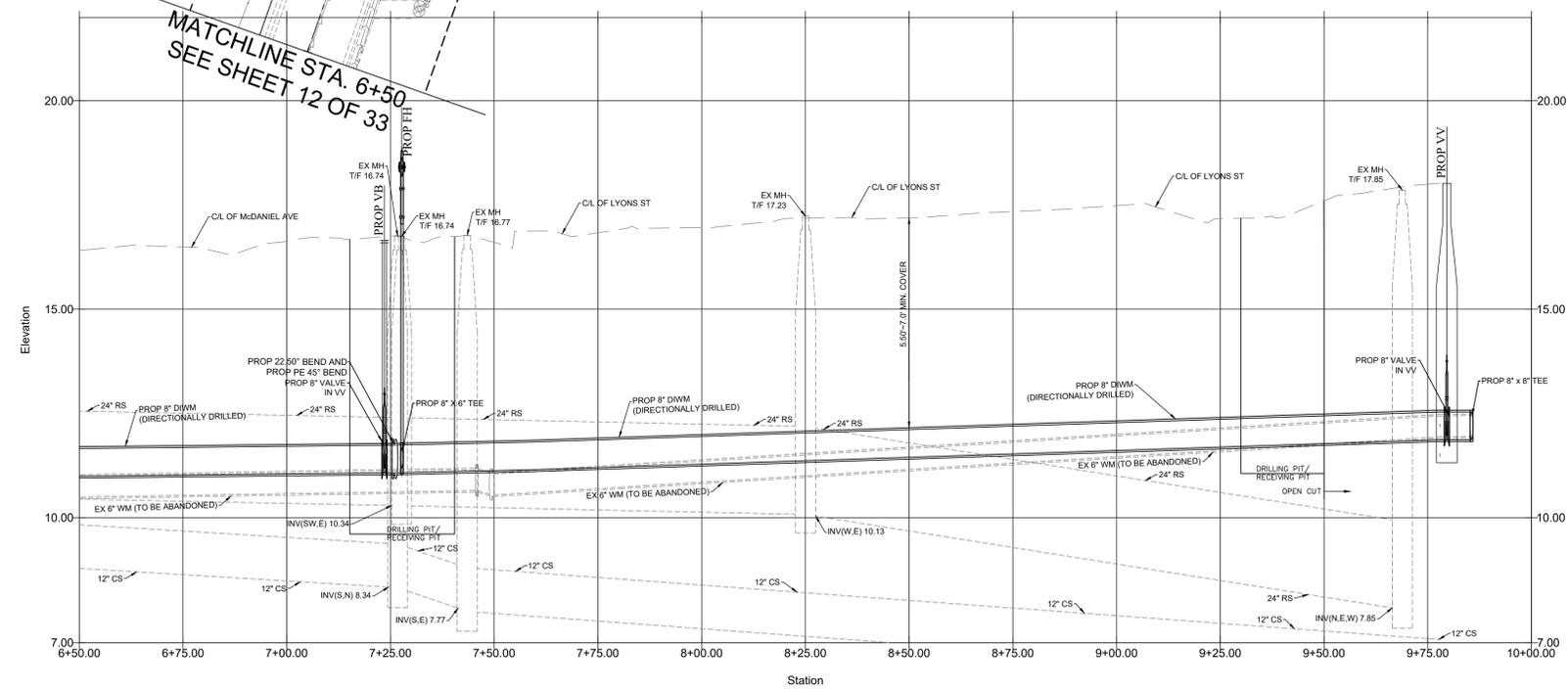
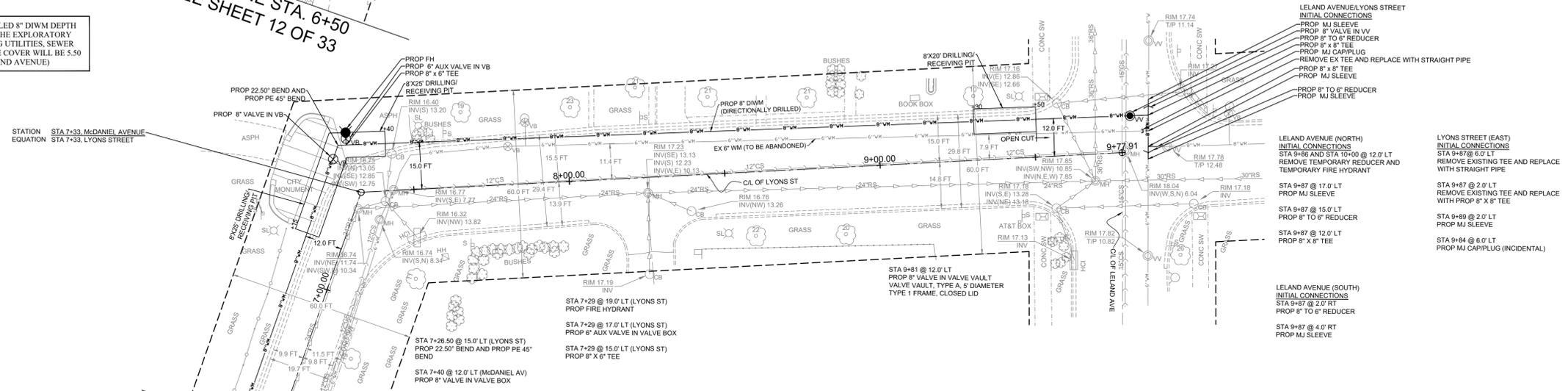
**2025 WATER MAIN IMPROVEMENTS
AND STREET RESURFACING PROJECT
MCDANIEL AVE (CHURCH TO LELAND)**

SCALE 1" = 20' H 1" = 2' V
PROJECT NUMBER: PW-WMRS-2502
BID NUMBER: 25-08
ISSUED FOR: CONSTRUCTION
DATE: 01/21/2025
DESIGNED BY: AA
DRAWN BY: AA, BN
CHECKED BY: BN
SHEET 13 OF 33

**MCDANIEL AVENUE
(ASPHALT OVER WBM)**



THE PROPOSED DIRECTIONALLY DRILLED 8" DIWM DEPTH WILL BE FIELD DETERMINED, AFTER THE EXPLORATORY TRENCH SURVEYS ON THE EXISTING UTILITIES, SEWER AND WATER SERVICES. APPROXIMATE COVER WILL BE 5.50 FT. ~ 7.0 FT. (CHURCH STREET TO LELAND AVENUE)



NOTE: (UNLESS SPECIFIED IN THE PLAN)

MAXIMUM TRENCH PAY WIDTHS:
WATER MAIN=4.0 FT. (5.0 FT. FOR TRENCH DEPTHS > 8')
SEWER MAIN=4.0 FT. (5.0 FT. FOR TRENCH DEPTHS > 8')

PAY WIDTHS:
MAXIMUM PAVEMENT REMOVAL AND REPLACEMENT
WATER MAIN=6.0 FT. (7.0 FT. FOR TRENCH DEPTHS > 8')
SEWER MAIN=6.0 FT. (7.0 FT. FOR TRENCH DEPTHS > 8')
WATER OR SEWER STRUCTURES=8.0 FT. X 8.0 FT.
WATER OR SEWER STRUCTURES REMOVAL=6.0 FT. X 6.0 FT.
VALVE BOX REMOVAL=2.0 FT. X 2.0 FT.

FOR WIDTHS IN EXCESS OF THE ABOVE, WILL NOT BE PAID SEPARATELY BUT CONSIDERED INCIDENTAL TO VARIOUS PAY ITEMS.

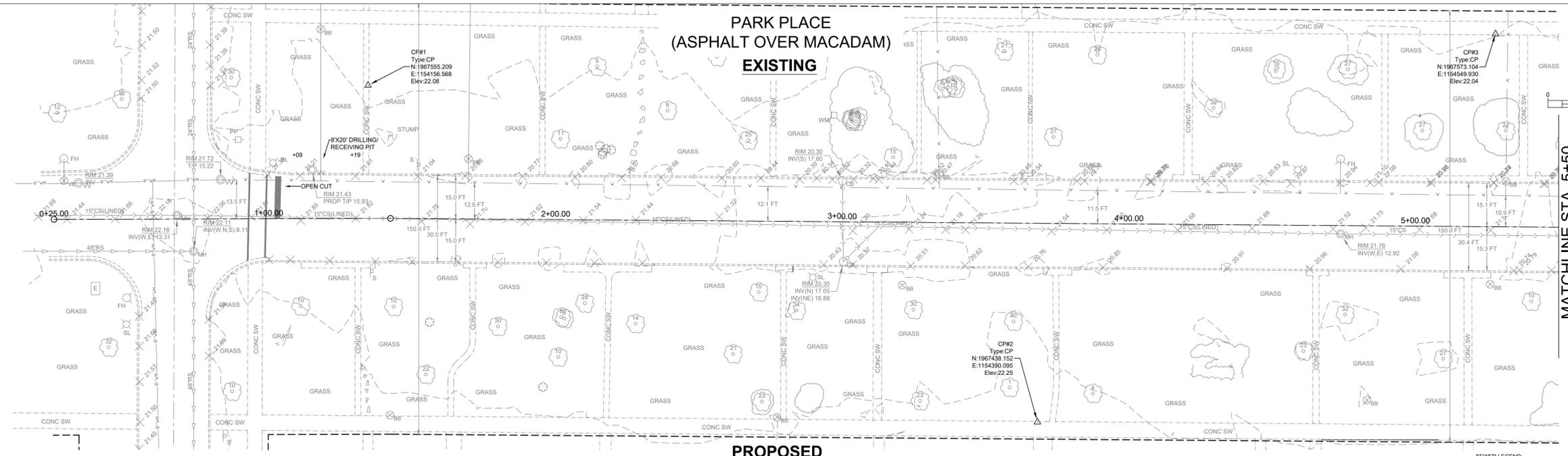
- NOTES:**
- ALL MATERIALS SHOULD BE "MADE IN AMERICA".
 - CITY REQUIRES THE USE OF STAINLESS STEEL BOLTS ON ALL FITTINGS OR MECHANICAL JOINT CONNECTIONS.
 - ALL SERVICES WILL BE TRACED BY WATER DIVISION PRIOR TO CONNECTION.
 - ALL NEW WATER SERVICES WILL BE 1.5" DIAMETER FOR EXISTING WATER SERVICES EQUAL OR LESS THAN 1.0" DIAMETER AND REQUIRED TO BE AUGERED.
 - A WATERTIGHT CONNECTION CONFORMING TO ASTM C-923 SHALL BE BETWEEN ALL PROPOSED SEWERS THAT WILL CONNECT TO EXISTING OR PROPOSED STRUCTURES. ALL PIPE CONNECTIONS TO EXISTING MANHOLES SHALL HAVE RUBBER BOOTS CONFORMING TO ASTM C-923.
 - SEE MWSD GENERAL NOTES #16 FOR PLUGGING (INCIDENTAL TO VARIOUS PAY ITEMS).
 - TEMPORARY FLUSHING FIRE HYDRANT WILL BE SUPPLIED BY THE CITY, AND INSTALLED BY THE CONTRACTOR UTILIZING MEGA LUG COMPONENTS. PRIOR TO FINAL CONNECTIONS, CONTRACTOR SHALL REMOVE THE TEMPORARY HYDRANT AND NOTIFY THE CITY FOR PICK UP. (INCIDENTAL TO WATER MAIN WORK ITEMS, NO SEPARATE PAYMENT).
 - ALL NON-PRESSURE CONNECTIONS TO EXISTING WATER MAIN WILL NOT BE PAID FOR SEPARATELY BUT CONSIDERED INCIDENTAL TO WATER MAIN WORK ITEMS.
 - VITON GASKETS (FRM GASKETS) WILL ONLY BE USED WHEN CONTAMINATED SOILS ARE ENCOUNTERED.
 - EXPLORATORY TRENCH WILL BE FIELD DETERMINED AND APPROVED ONLY BY THE RESIDENT ENGINEER.



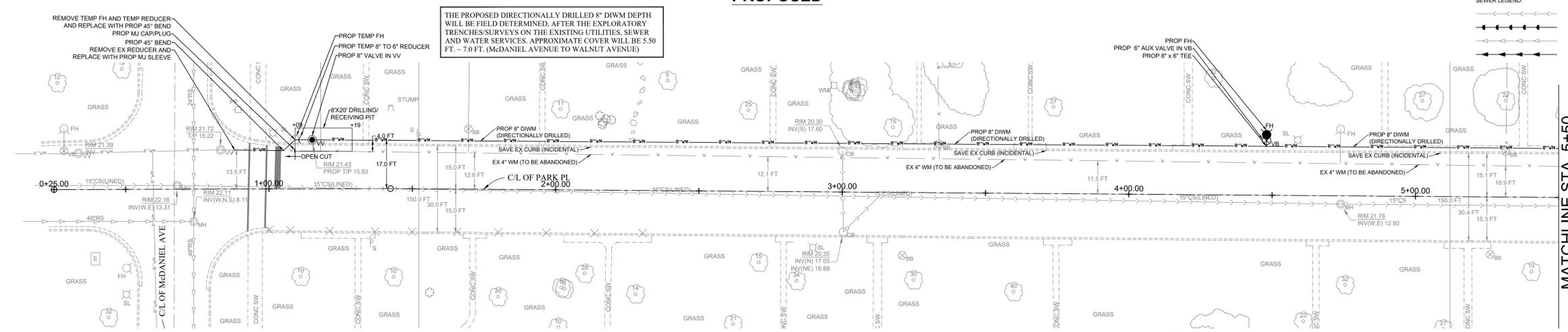
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2025 WATER MAIN IMPROVEMENTS AND STREET RESURFACING PROJECT PARK PLACE (MCDANIEL TO WALNUT)

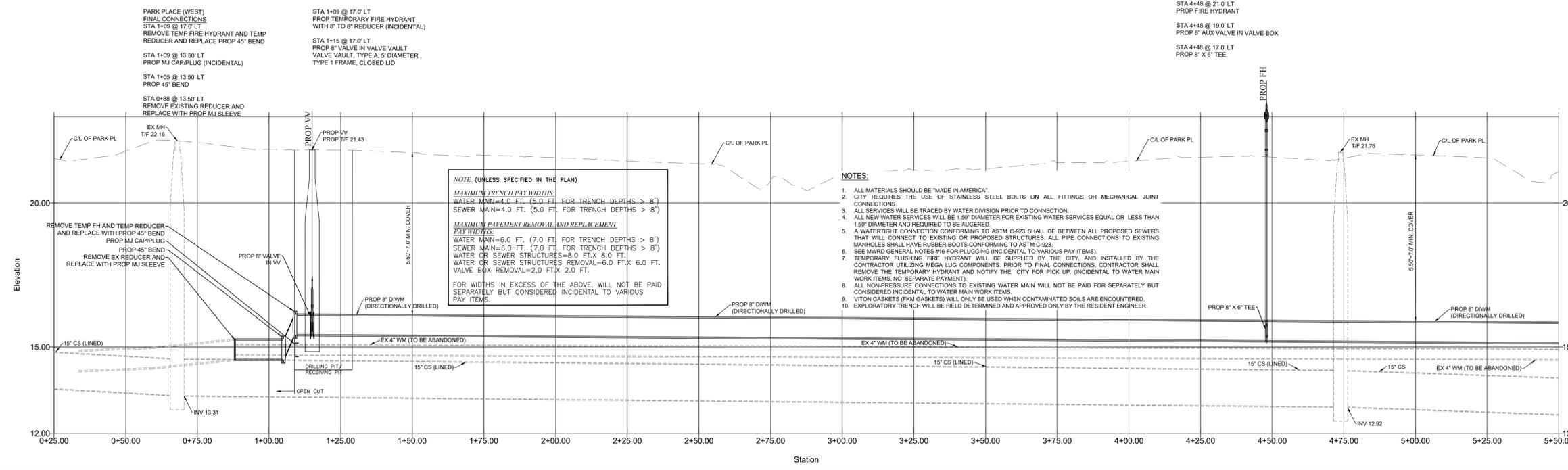
SCALE	1" = 20' H 1" = 2' V
PROJECT NUMBER:	PW-WMRS-2502
BID NUMBER:	25-08
ISSUED FOR:	BID
DATE:	01/21/2025
DESIGNED BY:	AA
DRAWN BY:	AA, BN
CHECKED BY:	BN
SHEET	14 OF 33



MATCHLINE STA. 5+50
SEE SHEET 15 OF 33



MATCHLINE STA. 5+50
SEE SHEET 15 OF 33



NOTE: (UNLESS SPECIFIED IN THE PLAN)

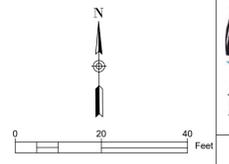
MAXIMUM TRENCH PAY WIDTHS:
 WATER MAIN=4.0 FT. (5.0 FT. FOR TRENCH DEPTHS > 8')
 SEWER MAIN=4.0 FT. (5.0 FT. FOR TRENCH DEPTHS > 8')

MAXIMUM PAVEMENT REMOVAL AND REPLACEMENT PAY WIDTHS:
 WATER MAIN=6.0 FT. (7.0 FT. FOR TRENCH DEPTHS > 8')
 SEWER MAIN=6.0 FT. (7.0 FT. FOR TRENCH DEPTHS > 8')
 WATER OR SEWER STRUCTURES=8.0 FT. X 8.0 FT.
 WATER OR SEWER STRUCTURES REMOVAL=6.0 FT. X 6.0 FT.
 VALVE BOX REMOVAL=2.0 FT. X 2.0 FT.

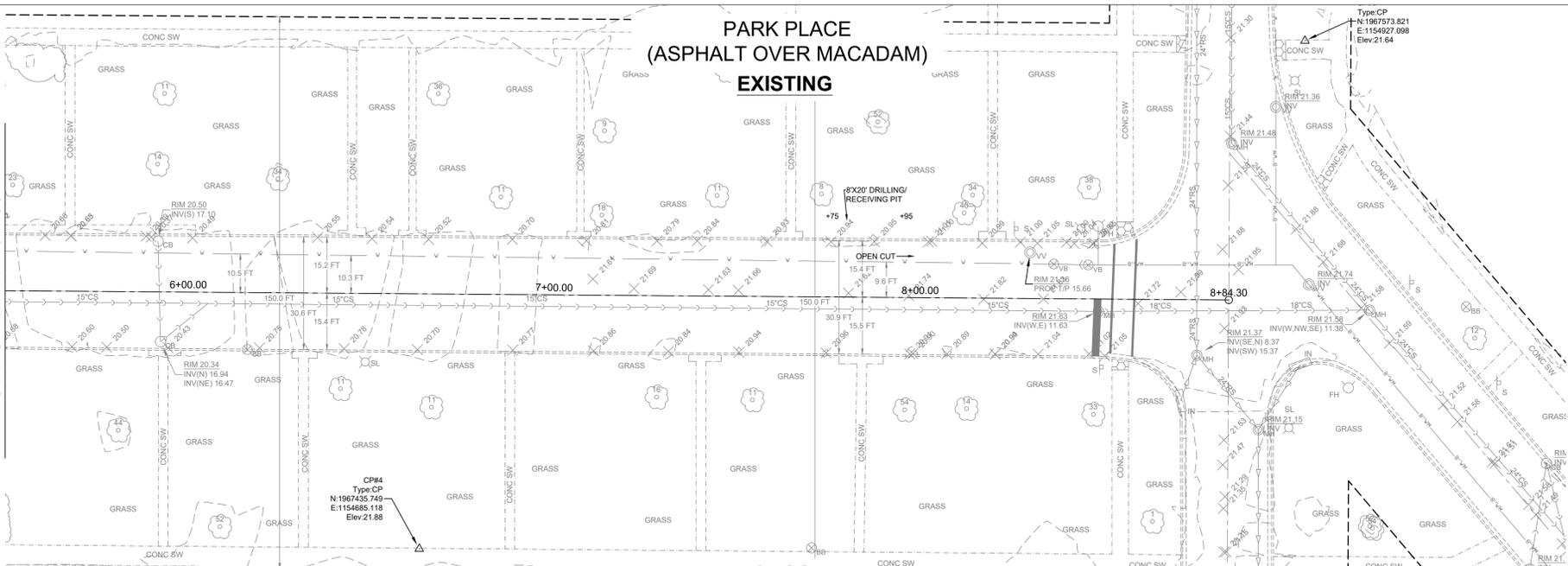
FOR WIDTHS IN EXCESS OF THE ABOVE, WILL NOT BE PAID SEPARATELY BUT CONSIDERED INCIDENTAL TO VARIOUS PAY ITEMS.

- NOTES:**
1. ALL MATERIALS SHOULD BE "MADE IN AMERICA"
 2. CITY REQUIRES THE USE OF STAINLESS STEEL BOLTS ON ALL FITTINGS OR MECHANICAL JOINT CONNECTIONS.
 3. ALL SERVICES WILL BE TRACED BY WATER DIVISION PRIOR TO CONNECTION.
 4. ALL NEW WATER SERVICES WILL BE 1.5" DIAMETER FOR EXISTING WATER SERVICES EQUAL OR LESS THAN 1.5" DIAMETER AND REQUIRED TO BE AUGERED.
 5. A WATERTIGHT CONNECTION CONFORMING TO ASTM C-923 SHALL BE BETWEEN ALL PROPOSED SEWERS THAT WILL CONNECT TO EXISTING OR PROPOSED STRUCTURES. ALL PIPE CONNECTIONS TO EXISTING MANHOLES SHALL HAVE RUBBER BOOTS CONFORMING TO ASTM C-923.
 6. SEE MWD GENERAL NOTES #16 FOR PLUGGING (INCIDENTAL TO VARIOUS PAY ITEMS).
 7. TEMPORARY FLUSHING FIRE HYDRANT WILL BE SUPPLIED BY THE CITY, AND INSTALLED BY THE CONTRACTOR UTILIZING MEGA LUG COMPONENTS. PRIOR TO FINAL CONNECTIONS, CONTRACTOR SHALL REMOVE THE TEMPORARY HYDRANT AND NOTIFY THE CITY FOR PICK UP. INCIDENTAL TO WATER MAIN WORK ITEMS. NO SEPARATE PAYMENT.
 8. ALL NON-PRESSURE CONNECTIONS TO EXISTING WATER MAIN WILL NOT BE PAID FOR SEPARATELY BUT CONSIDERED INCIDENTAL TO WATER MAIN WORK ITEMS.
 9. VITON GASKETS (FKM GASKETS) WILL ONLY BE USED WHEN CONTAMINATED SOILS ARE ENCOUNTERED.
 10. EXPLORATORY TRENCH WILL BE FIELD DETERMINED AND APPROVED ONLY BY THE RESIDENT ENGINEER.

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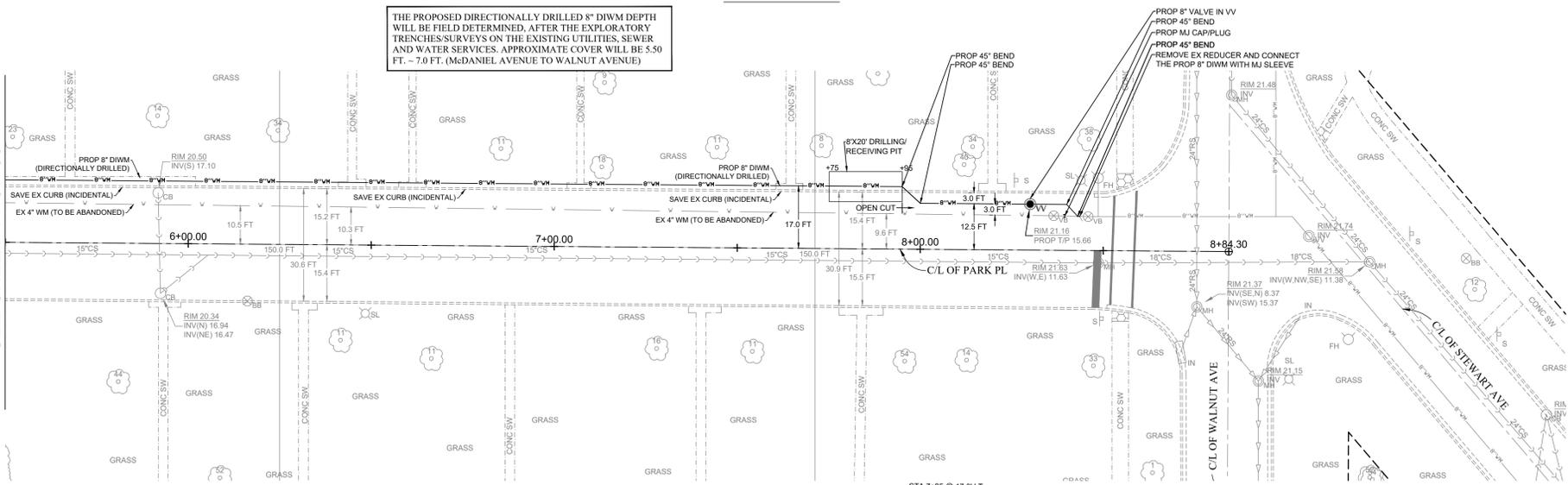


MATCHLINE STA. 5+50
SEE SHEET 14 OF 33

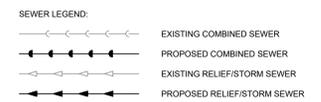


PROPOSED

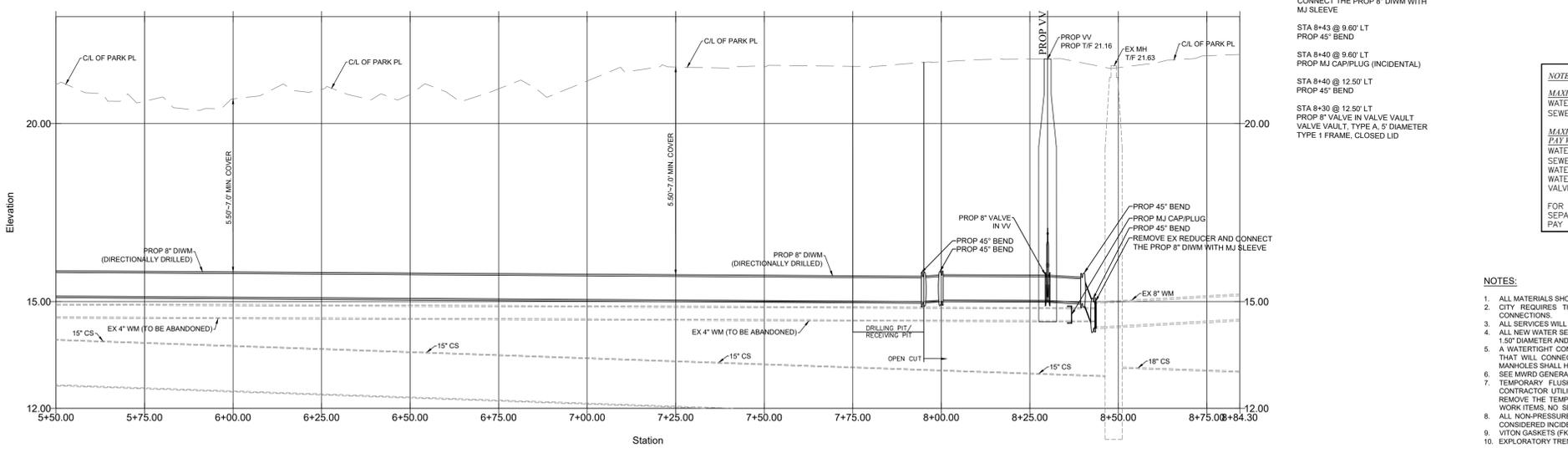
MATCHLINE STA. 5+50
SEE SHEET 14 OF 33



THE PROPOSED DIRECTIONALLY DRILLED 8" DIWM DEPTH WILL BE FIELD DETERMINED. AFTER THE EXPLORATORY TRENCHES/SURVEYS ON THE EXISTING UTILITIES, SEWER AND WATER SERVICES. APPROXIMATE COVER WILL BE 5.50 FT. - 7.0 FT. (MCDANIEL AVENUE TO WALNUT AVENUE)



MATCHLINE STA. 5+50
SEE SHEET 14 OF 33



PARK PLACE INITIAL CONNECTIONS
 STA 8+44 @ 9.60' LT
 REMOVE EXISTING REDUCER AND CONNECT THE PROP 8" DIWM WITH MJ SLEEVE
 STA 8+43 @ 9.60' LT
 PROP 45" BEND
 STA 8+40 @ 9.60' LT
 PROP MJ CAP/PLUG (INCIDENTAL)
 STA 8+40 @ 12.50' LT
 PROP 45" BEND
 STA 8+30 @ 12.50' LT
 PROP 8" VALVE IN VALVE VAULT
 VALVE VAULT, TYPE A 8" DIAMETER TYPE 1 FRAME, CLOSED LID

NOTE: (UNLESS SPECIFIED IN THE PLAN)
MAXIMUM TRENCH PAY WIDTHS:
 WATER MAIN=4.0 FT. (5.0 FT. FOR TRENCH DEPTHS > 8')
 SEWER MAIN=4.0 FT. (5.0 FT. FOR TRENCH DEPTHS > 8')
PAV WIDTHS:
 WATER MAIN=6.0 FT. (7.0 FT. FOR TRENCH DEPTHS > 8')
 SEWER MAIN=6.0 FT. (7.0 FT. FOR TRENCH DEPTHS > 8')
 WATER OR SEWER STRUCTURES=8.0 FT. X 8.0 FT.
 WATER OR SEWER STRUCTURES REMOVAL=6.0 FT. X 6.0 FT.
 VALVE BOX REMOVAL=2.0 FT. X 2.0 FT.
 FOR WIDTHS IN EXCESS OF THE ABOVE, WILL NOT BE PAID SEPARATELY BUT CONSIDERED INCIDENTAL TO VARIOUS PAY ITEMS.

- NOTES:**
- ALL MATERIALS SHOULD BE "MADE IN AMERICA".
 - CITY REQUIRES THE USE OF STAINLESS STEEL BOLTS ON ALL FITTINGS OR MECHANICAL JOINT CONNECTIONS.
 - ALL SERVICES WILL BE TRACED BY WATER DIVISION PRIOR TO CONNECTION.
 - ALL NEW WATER SERVICES WILL BE 1.50" DIAMETER FOR EXISTING WATER SERVICES EQUAL OR LESS THAN 1.50" DIAMETER AND REQUIRED TO BE AUGERED.
 - A WATERTIGHT CONNECTION CONFORMING TO ASTM C-923 SHALL BE BETWEEN ALL PROPOSED SEWERS THAT WILL CONNECT TO EXISTING OR PROPOSED STRUCTURES. ALL PIPE CONNECTIONS TO EXISTING MANHOLES SHALL HAVE RUBBER BOOTS CONFORMING TO ASTM C-923.
 - SEE MW/RD GENERAL NOTES #16 FOR PLUGGING (INCIDENTAL TO VARIOUS PAY ITEMS).
 - TEMPORARY FLUSHING FIRE HYDRANT WILL BE SUPPLIED BY THE CITY, AND INSTALLED BY THE CONTRACTOR UTILIZING MEGA LUG COMPONENTS. PRIOR TO FINAL CONNECTIONS, CONTRACTOR SHALL REMOVE THE TEMPORARY HYDRANT AND NOTIFY THE CITY FOR PICK UP. (INCIDENTAL TO WATER MAIN WORK ITEMS, NO SEPARATE PAYMENT).
 - ALL NON-PRESSURE CONNECTIONS TO EXISTING WATER MAIN WILL NOT BE PAID FOR SEPARATELY BUT CONSIDERED INCIDENTAL TO WATER MAIN WORK ITEMS.
 - WITON GASKETS (FRM GASKETS) WILL ONLY BE USED WHEN CONTAMINATED SOILS ARE ENCOUNTERED.
 - EXPLORATORY TRENCH WILL BE FIELD DETERMINED AND APPROVED ONLY BY THE RESIDENT ENGINEER.

NO.	DATE	REVISION
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**2025 WATER MAIN IMPROVEMENTS
AND STREET RESURFACING PROJECT
PARK PLACE (MCDANIEL TO WALNUT)**

SCALE
1" = 20' H
1" = 2' V

PROJECT NUMBER:
PW-WMRS-2502

BID NUMBER:
25-08

ISSUED FOR:
BID

DATE: 01/21/2025

DESIGNED BY: AA

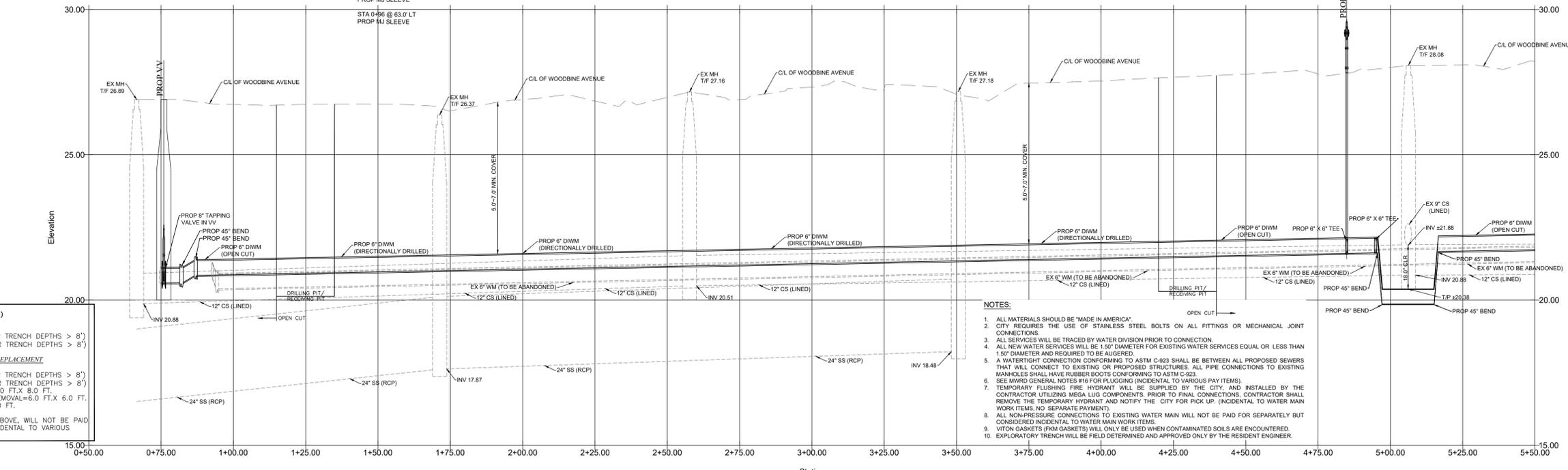
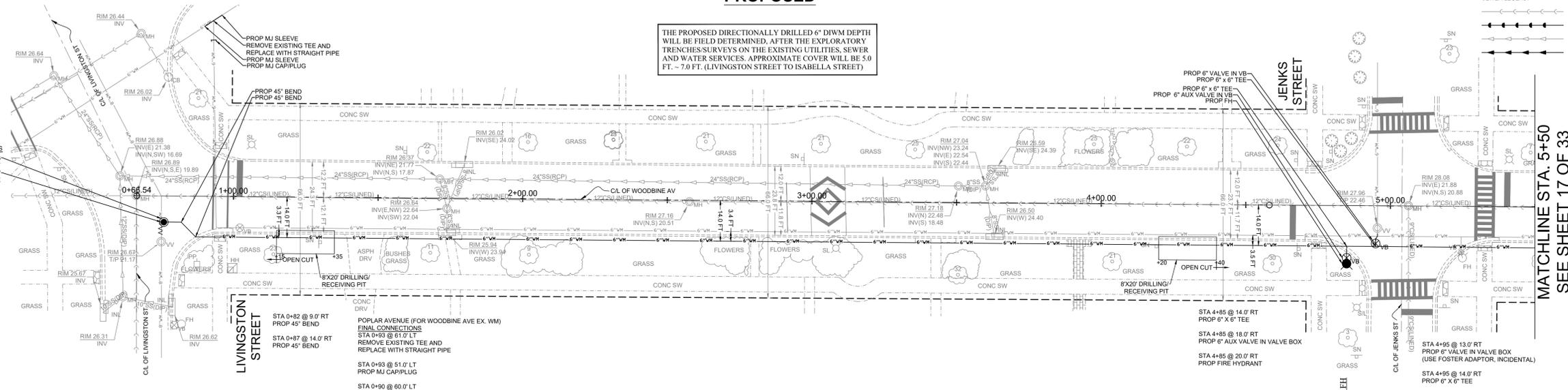
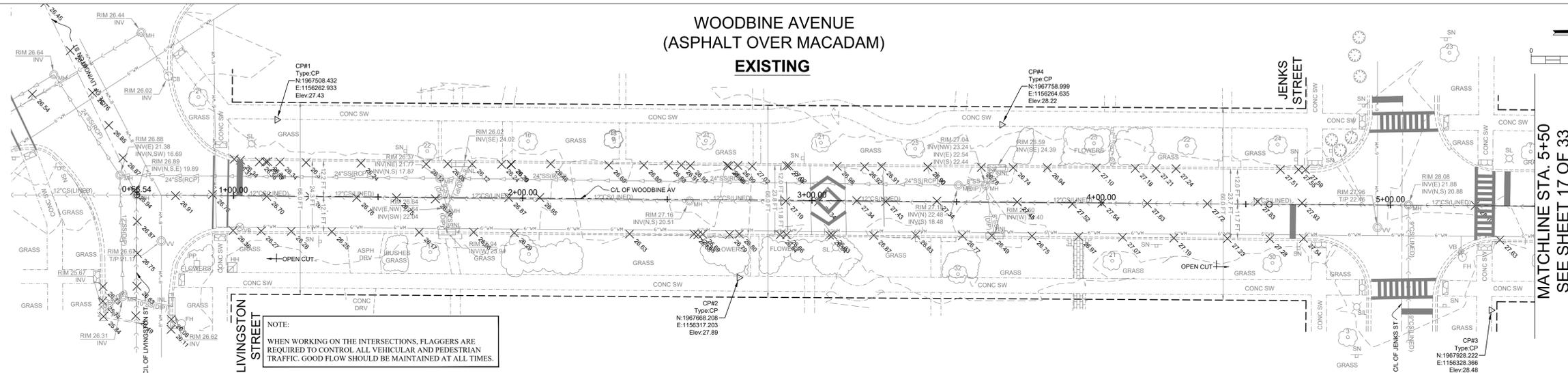
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CHECKED BY: BN

SHEET
15 OF 33

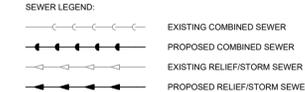
**WOODBINE AVENUE
(ASPHALT OVER MACADAM)
EXISTING**

PROPOSED



NOTE:
WHEN WORKING ON THE INTERSECTIONS, FLAGGERS ARE REQUIRED TO CONTROL ALL VEHICULAR AND PEDESTRIAN TRAFFIC. GOOD FLOW SHOULD BE MAINTAINED AT ALL TIMES.

THE PROPOSED DIRECTIONALLY DRILLED 6" DIWM DEPTH WILL BE FIELD DETERMINED, AFTER THE EXPLORATORY TRENCH SURVEYS ON THE EXISTING UTILITIES, SEWER AND WATER SERVICES. APPROXIMATE COVER WILL BE 5.0 FT. - 7.0 FT. (LIVINGSTON STREET TO ISABELLA STREET)



MATCHLINE STA. 5+50
SEE SHEET 17 OF 33

MATCHLINE STA. 5+50
SEE SHEET 17 OF 33

WOODBINE AVENUE (NORTH) INITIAL CONNECTIONS
STA 0+75 @ 9.0' RT
PROP 6" PRESSURE TAP, PROP 6" X 6" STAINLESS STEEL SLEEVE AND PROP 6" TAPPING VALVE IN VALVE VAULT VALVE VAULT, TYPE A, 5" DIAMETER TYPE 1 FRAME, CLOSED LID

LIVINGSTON STREET
STA 0+82 @ 9.0' RT
PROP 45" BEND
STA 0+87 @ 14.0' RT
PROP 45" BEND
STA 0+93 @ 51.0' LT
PROP MJ CAP/PLUG
STA 0+90 @ 60.0' LT
PROP MJ SLEEVE
STA 0+86 @ 63.0' LT
PROP MJ SLEEVE

POPULAR AVENUE (FOR WOODBINE AVE EX. WM) FINAL CONNECTIONS
STA 0+93 @ 81.0' LT
REMOVE EXISTING TEE AND REPLACE WITH STRAIGHT PIPE
STA 0+93 @ 51.0' LT
PROP MJ CAP/PLUG
STA 0+90 @ 60.0' LT
PROP MJ SLEEVE
STA 0+86 @ 63.0' LT
PROP MJ SLEEVE

STA 4+85 @ 14.0' RT
PROP 6" X 6" TEE
STA 4+85 @ 18.0' RT
PROP 6" VALVE IN VALVE BOX
STA 4+85 @ 20.0' RT
PROP FIRE HYDRANT

STA 4+95 @ 13.0' RT
PROP 6" VALVE IN VALVE BOX (USE FOSTER ADAPTOR, INCIDENTAL)
STA 4+95 @ 14.0' RT
PROP 6" X 6" TEE

NOTE: (UNLESS SPECIFIED IN THE PLAN)
MAXIMUM TRENCH PAY WIDTHS:
WATER MAIN=4.0 FT. (5.0 FT. FOR TRENCH DEPTHS > 8')
SEWER MAIN=4.0 FT. (5.0 FT. FOR TRENCH DEPTHS > 8')
MAXIMUM PAVEMENT REMOVAL AND REPLACEMENT PAY WIDTHS:
WATER MAIN=6.0 FT. (7.0 FT. FOR TRENCH DEPTHS > 8')
SEWER MAIN=6.0 FT. (7.0 FT. FOR TRENCH DEPTHS > 8')
WATER OR SEWER STRUCTURES=8.0 FT.X 8.0 FT.
WATER OR SEWER STRUCTURES REMOVAL=6.0 FT.X 6.0 FT.
VALVE BOX REMOVAL=2.0 FT.X 2.0 FT.
FOR WIDTHS IN EXCESS OF THE ABOVE, WILL NOT BE PAID SEPARATELY BUT CONSIDERED INCIDENTAL TO VARIOUS PAY ITEMS.

- NOTES:**
1. ALL MATERIALS SHOULD BE "MADE IN AMERICA".
 2. CITY REQUIRES THE USE OF STAINLESS STEEL BOLTS ON ALL FITTINGS OR MECHANICAL JOINT CONNECTIONS.
 3. ALL SERVICES WILL BE TRACED BY WATER DIVISION PRIOR TO CONNECTION.
 4. ALL NEW WATER SERVICES WILL BE 1.50" DIAMETER FOR EXISTING WATER SERVICES EQUAL OR LESS THAN 1.50" DIAMETER AND REQUIRED TO BE AUGERED.
 5. A WATERTIGHT CONNECTION CONFORMING TO ASTM C-823 SHALL BE BETWEEN ALL PROPOSED SEWERS THAT WILL CONNECT TO EXISTING OR PROPOSED STRUCTURES. ALL PIPE CONNECTIONS TO EXISTING MANHOLES SHALL HAVE RUBBER BOOTS CONFORMING TO ASTM C-923.
 6. SEE MANHOLE GENERAL NOTES #16 FOR FLAGGING (INCIDENTAL TO VARIOUS PAY ITEMS).
 7. TEMPORARY FLUSHING FIRE HYDRANT WILL BE SUPPLIED BY THE CITY, AND INSTALLED BY THE CONTRACTOR UTILIZING MEGA LUG COMPONENTS. PRIOR TO FINAL CONNECTIONS, CONTRACTOR SHALL REMOVE THE TEMPORARY HYDRANT AND NOTIFY THE CITY FOR PICK UP. (INCIDENTAL TO WATER MAIN WORK ITEMS, NO SEPARATE PAYMENT).
 8. ALL NON-PRESSURE CONNECTIONS TO EXISTING WATER MAIN WILL NOT BE PAID FOR SEPARATELY BUT CONSIDERED INCIDENTAL TO WATER MAIN WORK ITEMS.
 9. VITON GASKETS (PM GASKETS) WILL ONLY BE USED WHEN CONTAMINATED SOILS ARE ENCOUNTERED.
 10. EXPLORATORY TRENCH WILL BE FIELD DETERMINED AND APPROVED ONLY BY THE RESIDENT ENGINEER.

**2025 WATER MAIN IMPROVEMENTS
AND STREET RESURFACING PROJECT
WOODBINE AVE (LIVINGSTON TO ISABELLA)**

NO.	DATE	REVISION
1		
2		
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4		

SCALE
1" = 20' H
1" = 2' V

PROJECT NUMBER:
PW-WMRS-2502

BID NUMBER:
25-08

ISSUED FOR:
BID

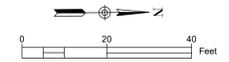
DATE: 01/21/2025

DESIGNED BY: AA

DRAWN BY: AA, BN

CHECKED BY: BN

WOODBINE AVENUE
(ASPHALT OVER CONCRETE/MACADAM)



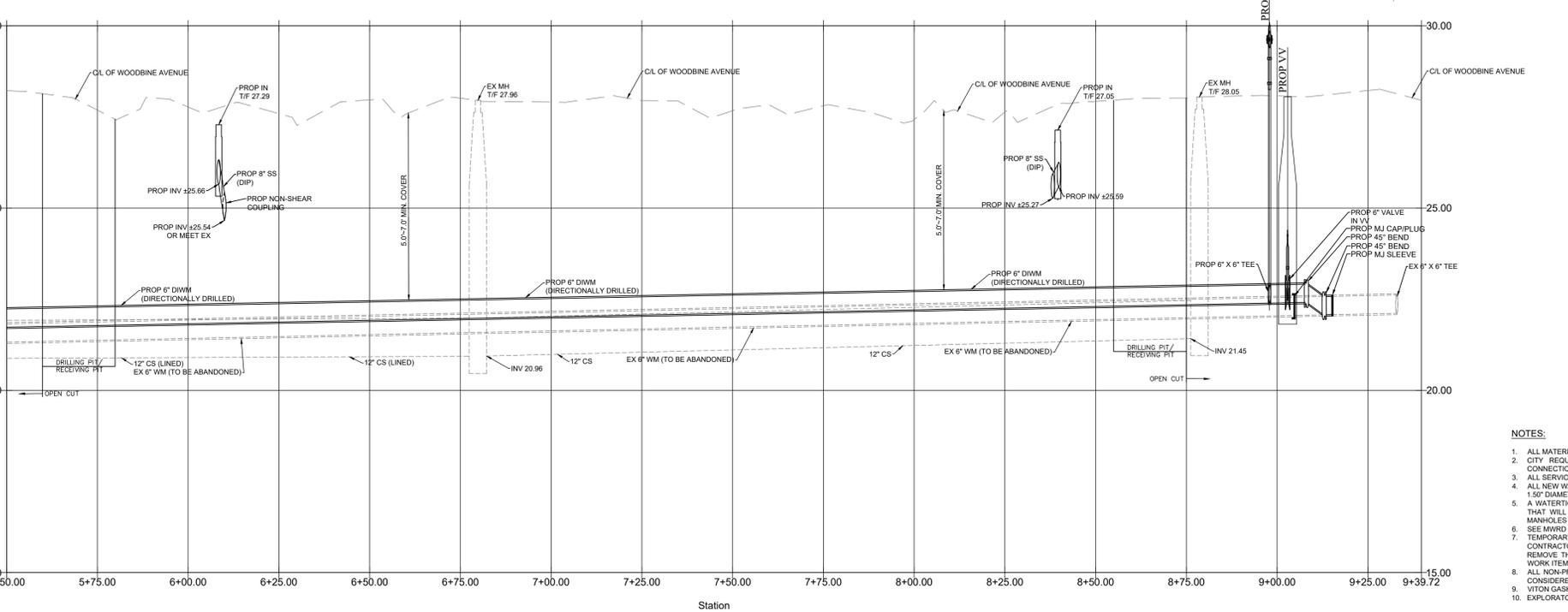
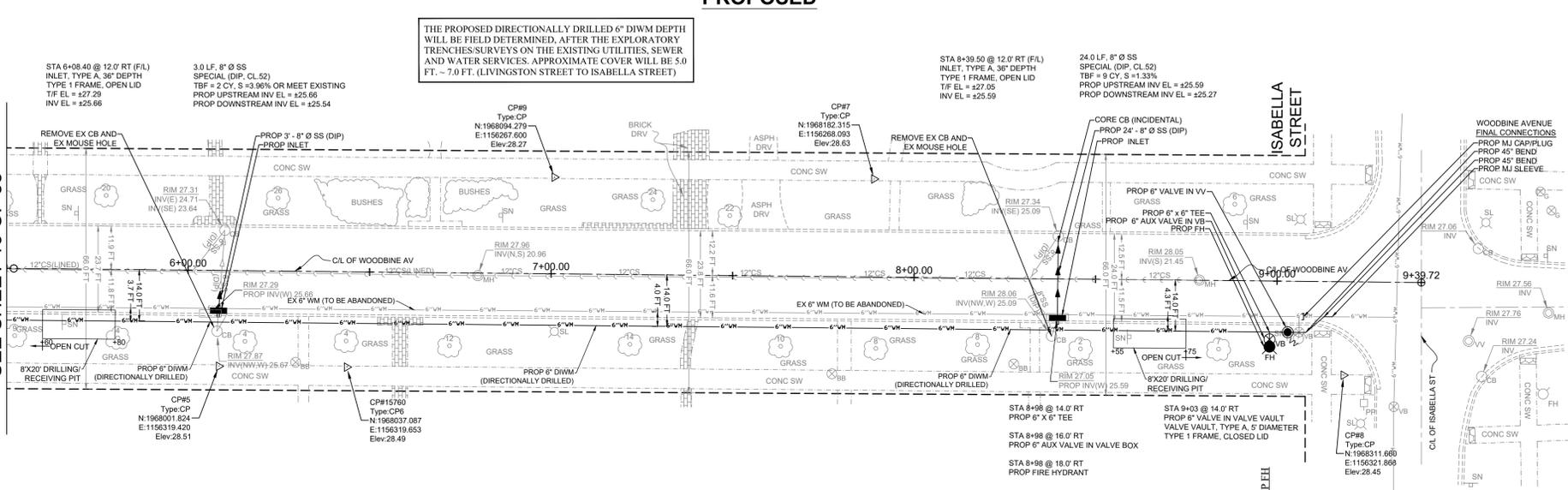
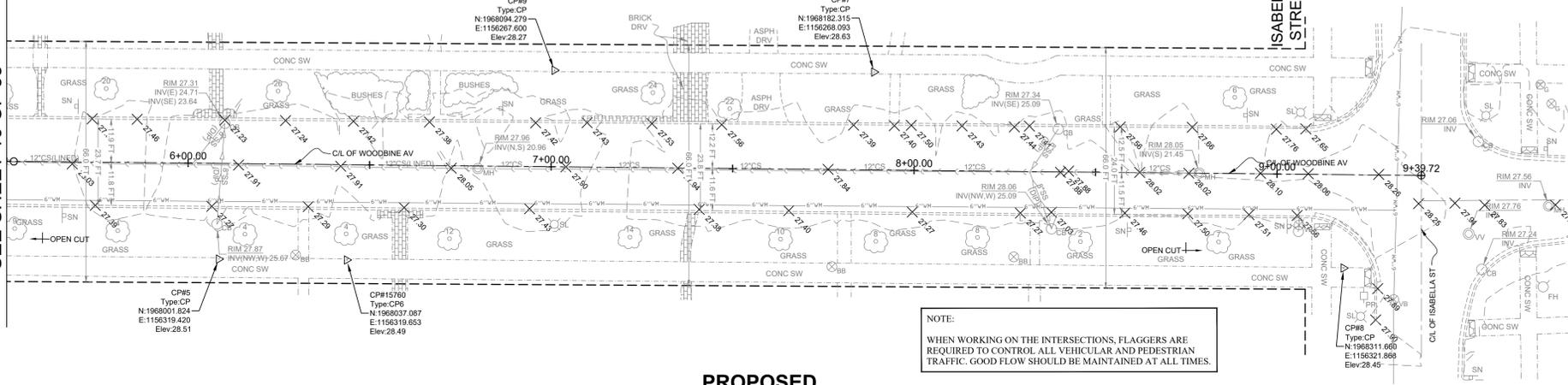
MATCHLINE STA. 5+50
SEE SHEET 16 OF 33

MATCHLINE STA. 5+50
SEE SHEET 16 OF 33

Elevation
30.00
25.00
20.00
15.00

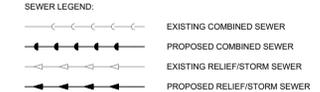
EXISTING

PROPOSED



NOTE:
WHEN WORKING ON THE INTERSECTIONS, FLAGGERS ARE REQUIRED TO CONTROL ALL VEHICULAR AND PEDESTRIAN TRAFFIC. GOOD FLOW SHOULD BE MAINTAINED AT ALL TIMES.

THE PROPOSED DIRECTIONALLY DRILLED 6" DWM DEPTH WILL BE FIELD DETERMINED, AFTER THE EXPLORATORY TRENCHES/SURVEYS ON THE EXISTING UTILITIES, SEWER AND WATER SERVICES. APPROXIMATE COVER WILL BE 5.0 FT. ~ 7.0 FT. (LIVINGSTON STREET TO ISABELLA STREET)



NOTE: (UNLESS SPECIFIED IN THE PLAN)
MAXIMUM TRENCH PAY WIDTHS:
 WATER MAIN=4.0 FT. (5.0 FT. FOR TRENCH DEPTHS > 8')
 SEWER MAIN=4.0 FT. (5.0 FT. FOR TRENCH DEPTHS > 8')
MAXIMUM PAVEMENT REMOVAL AND REPLACEMENT PAY WIDTHS:
 WATER MAIN=6.0 FT. (7.0 FT. FOR TRENCH DEPTHS > 8')
 SEWER MAIN=6.0 FT. (7.0 FT. FOR TRENCH DEPTHS > 8')
 WATER OR SEWER STRUCTURES=8.0 FT.X 8.0 FT.
 WATER OR SEWER STRUCTURES REMOVAL=6.0 FT.X 6.0 FT.
 VALVE BOX REMOVAL=2.0 FT.X 2.0 FT.
 FOR WIDTHS IN EXCESS OF THE ABOVE, WILL NOT BE PAID SEPARATELY BUT CONSIDERED INCIDENTAL TO VARIOUS PAY ITEMS.

- NOTES:
- ALL MATERIALS SHOULD BE "MADE IN AMERICA".
 - CITY REQUIRES THE USE OF STAINLESS STEEL BOLTS ON ALL FITTINGS OR MECHANICAL JOINT CONNECTIONS.
 - ALL SERVICES WILL BE TRACED BY WATER DIVISION PRIOR TO CONNECTION.
 - ALL NEW WATER SERVICES WILL BE 1/2" DIAMETER FOR EXISTING WATER SERVICES EQUAL OR LESS THAN 1/2" DIAMETER AND REQUIRED TO BE AUGERED.
 - A WATERTIGHT CONNECTION CONFORMING TO ASTM C-923 SHALL BE BETWEEN ALL PROPOSED SEWERS THAT WILL CONNECT TO EXISTING OR PROPOSED STRUCTURES. ALL PIPE CONNECTIONS TO EXISTING MANHOLES SHALL HAVE RUBBER BOOTS CONFORMING TO ASTM C-923.
 - SEE MVRD GENERAL NOTES #16 FOR PLUGGING (INCIDENTAL TO VARIOUS PAY ITEMS).
 - TEMPORARY FLUSHING FIRE HYDRANT WILL BE SUPPLIED BY THE CITY, AND INSTALLED BY THE CONTRACTOR UTILIZING MEGA LUG COMPONENTS. PRIOR TO FINAL CONNECTIONS, CONTRACTOR SHALL REMOVE THE TEMPORARY HYDRANT AND NOTIFY THE CITY FOR PICK UP. (INCIDENTAL TO WATER MAIN WORK ITEMS, NO SEPARATE PAYMENT).
 - ALL NON-PRESSURE CONNECTIONS TO EXISTING WATER MAIN WILL NOT BE PAID FOR SEPARATELY BUT CONSIDERED INCIDENTAL TO WATER MAIN WORK ITEMS.
 - VITON GASKETS (FROM GASKETS) WILL ONLY BE USED WHEN CONTAMINATED SOILS ARE ENCOUNTERED.
 - EXPLORATORY TRENCH WILL BE FIELD DETERMINED AND APPROVED ONLY BY THE RESIDENT ENGINEER.

2025 WATER MAIN IMPROVEMENTS
AND STREET RESURFACING PROJECT
WOODBINE AVE (LIVINGSTON TO ISABELLA)

SCALE	1" = 20' H 1" = 2' V
PROJECT NUMBER:	PW-WMRS-2502
BID NUMBER:	25-08
ISSUED FOR:	BID
DATE:	01/21/2025
DESIGNED BY:	AA
DRAWN BY:	AA, BN
CHECKED BY:	BN

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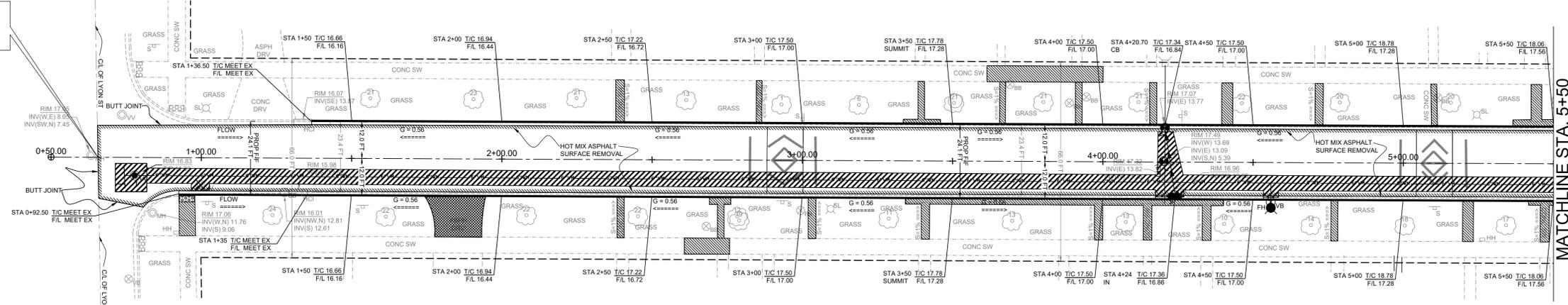
ASHLAND AVENUE
(ASPHALT OVER MACADAM)

RESURFACING PLAN

STA 0+66 TO STA 7+27 MILL (VARIABLE DEPTH) OF EXISTING ROADWAY SURFACE AND REPLACE WITH ±3/4" TO 1" LEVELING BINDER (MACHINE METHOD), N50 (IL9.5mm) AND 2" HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL 9.5 mm).

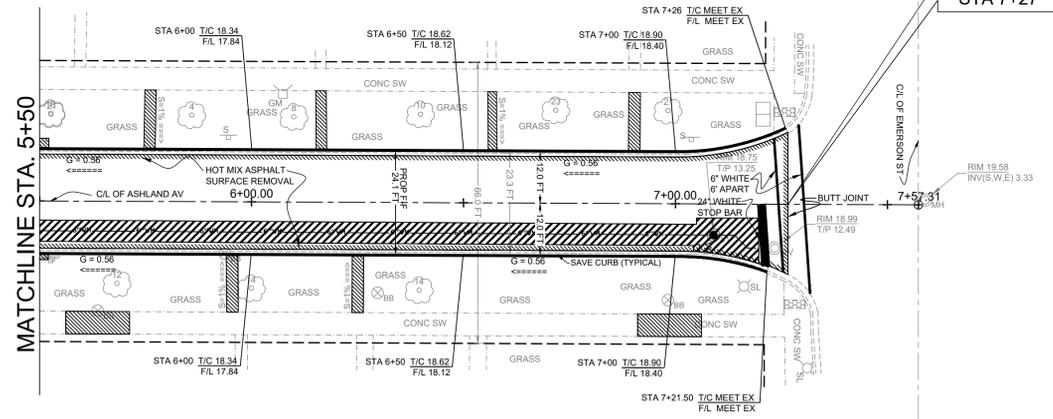


PROJECT BEGINS STA 0+66



MATCHLINE STA. 5+50

PROJECT ENDS STA 7+27

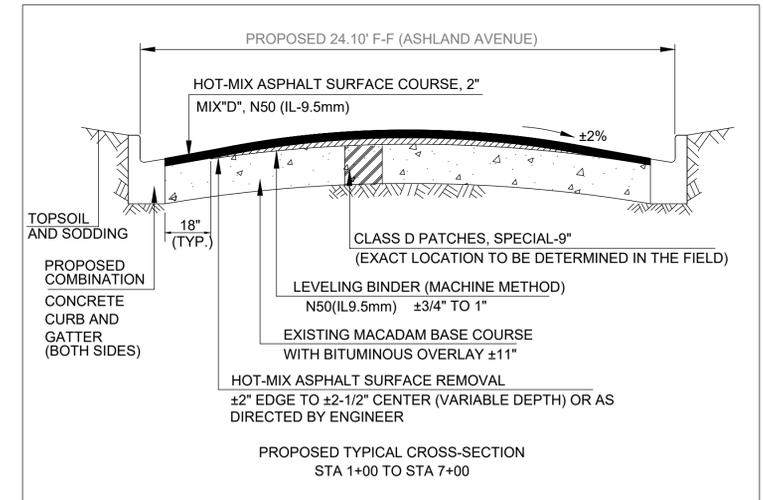
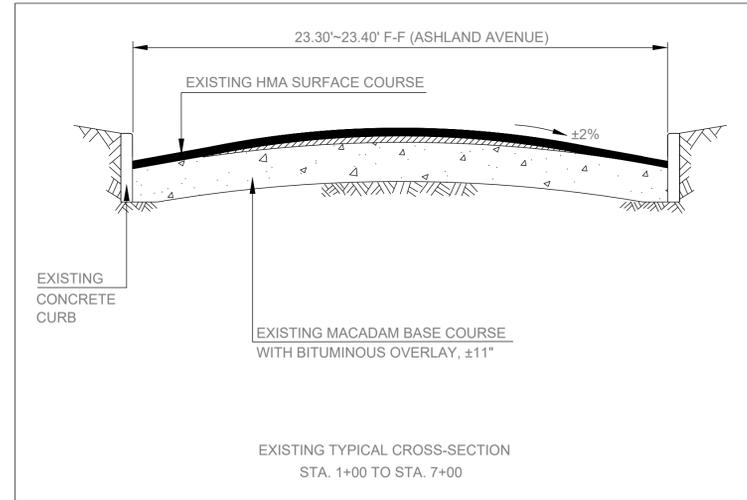


REFRESH "OVERLAY" ALL DAMAGED EXISTING PAVEMENT MARKINGS AS DIRECTED BY ENGINEER

HATCH LEGEND:

- FULL DEPTH PATCHES, SPECIAL ±11.0"
- REMOVAL AND REPLACEMENT OF ASPHALT SURFACES
- REMOVAL AND REPLACEMENT OF ASPHALT DRIVEWAYS
- REMOVAL AND REPLACEMENT OF CONCRETE DRIVEWAYS
- REMOVAL AND REPLACEMENT OF SIDEWALKS
- PROPOSED DETECTABLE WARNINGS

- (1) ALL EXISTING TYPE B CURB ON BOTH SIDES OF THE STREET WILL BE REMOVED AND REPLACE WITH NEW CURB AND GUTTER TYPE B6.12 AS SHOWN ON THE DRAWING. THE STREET WILL BE WIDENED TO 24.10 FEET.
- (2.) ALL SEWER WORK IN THE CURB LINE WILL BE FIELD DETERMINED, AND/OR WILL BE DONE AS DIRECTED BY THE ENGINEER.
- (3.) CONTRACTOR WILL BE REQUIRED TO DO CONCRETE WORK ON ONE SIDE OF THE STREET AT A TIME.



- (1) TEMPORARY FENCE INSTALLATION AND EARTH SAWCUTS OF TREE ROOTS (ROOT PRUNING) WILL BE FIELD DETERMINED, PRIOR TO ANY REMOVAL OPERATIONS.
- (2) CONTRACTOR WILL BE REQUIRED TO INSTALL SPEED HUMP SEPARATELY, AFTER SURFACE COURSE IS PLACED. SPEED HUMPS WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD FOR "SPEED HUMPS, COMPLETE". BUTT JOINTS FOR SPEED HUMPS WILL BE INCIDENTAL TO THE VARIOUS PAY ITEMS.
- (3) EXACT LOCATIONS OF THE FULL DEPTH PATCHES (HES) AND/OR CLASS "D" PATCHES WILL BE FIELD DETERMINED, AFTER MILLING OF EXISTING ROADWAY SURFACE.
- (4) EXISTING TYPE B CURB WILL BE REMOVED AND REPLACED WITH COMBINATION CONCRETE CURB AND GUTTER, TYPE B6.12, WILL BE FIELD DETERMINED.
- (5) THE WORK IN NOTE 3 WILL BE PAID FOR AT THE CONTRACT UNIT PRICE BID FOR "PAVEMENT REMOVAL", "CURB REMOVAL", AND "COMBINATION CONCRETE CURB AND GUTTER TYPE B6.12".
- (6) THE CONTRACTOR SHALL BE RESPONSIBLE TO VISUALLY FIELD VERIFY ALL STRUCTURES CALLING FOR RECONSTRUCTION OR REPLACEMENT IN ORDER TO DETERMINE THE EXTEND AND MAGNITUDE OF THE WORK REQUIRED. FULL DEPTH SAW CUTTING WILL BE REQUIRED FOR ALL UTILITY WORK.
- (7) ADDITIONAL CONCRETE REMOVAL AND REPLACEMENT WORK WILL BE FIELD DETERMINED.
- (8) CONTRACTOR WILL BE REQUIRED TO DO CONCRETE WORK ON ONE SIDE OF THE STREET AT A TIME.

NO.	DATE	REVISION
1		
2		
3		
4		

2025 WATER MAIN IMPROVEMENTS
AND STREET RESURFACING PROJECT
ASHLAND AVENUE (LYONS TO EMERSON)

SCALE
1" = 20' H
1" = 2' V

PROJECT NUMBER:
PW-WMRS-2502

BID NUMBER:
25-08

ISSUED FOR:
BID

DATE: 01/21/2025

DESIGNED BY: AA

DRAWN BY: AA, BN

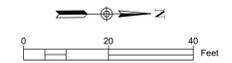
CHECKED BY: BN

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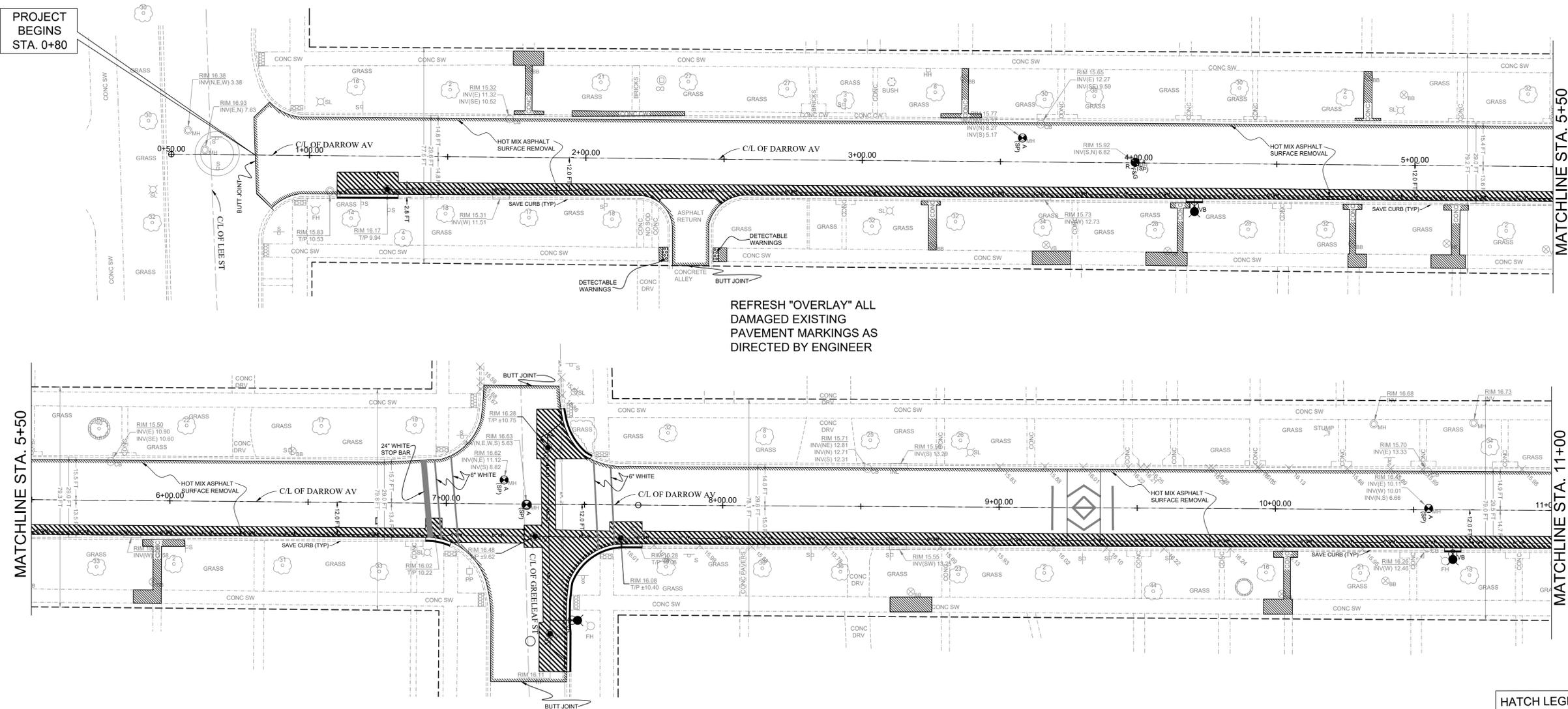
STA 0+80 TO STA 20+50 MILL (VARIABLE DEPTH) OF EXISTING ROADWAY SURFACE AND REPLACE WITH ±3/4" TO 1" LEVELING BINDER (MACHINE METHOD), N50 (IL9.5mm) AND 2" HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL 9.5 mm).

DARROW AVENUE
(ASPHALT OVER CONCRETE)

RESURFACING PLAN



PROJECT BEGINS STA. 0+80



MATCHLINE STA. 5+50

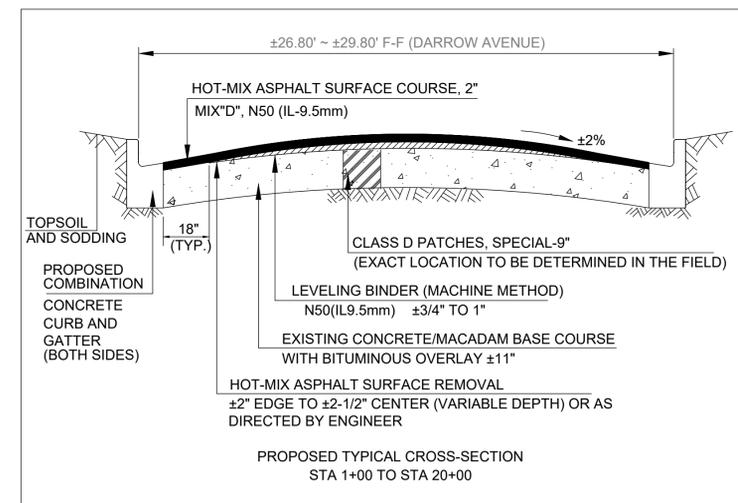
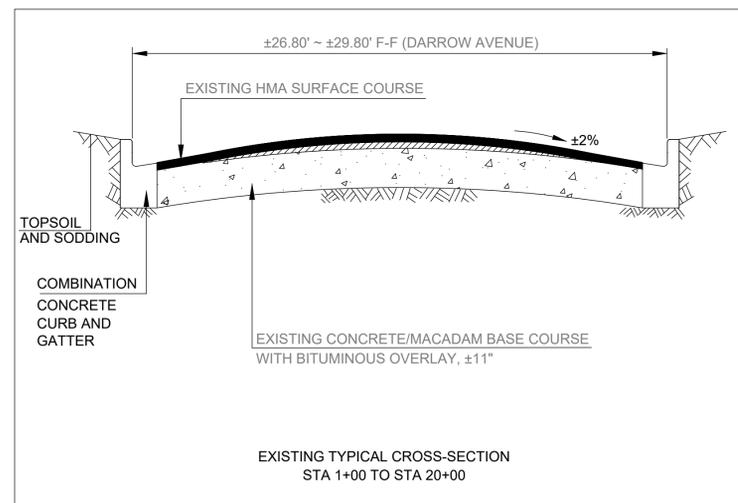
MATCHLINE STA. 11+00
SEE SHEET 20 OF 33

REFRESH "OVERLAY" ALL DAMAGED EXISTING PAVEMENT MARKINGS AS DIRECTED BY ENGINEER

HATCH LEGEND:

	- FULL DEPTH PATCHES, SPECIAL ±11.0"
	- REMOVAL AND REPLACEMENT OF ASPHALT SURFACES
	- REMOVAL AND REPLACEMENT OF DRIVEWAYS
	- REMOVAL AND REPLACEMENT OF SIDEWALKS
	- PROPOSED DETECTABLE WARNINGS

- (1.) TEMPORARY FENCE INSTALLATION AND EARTH SAWCUTS OF TREE ROOTS (ROOT PRUNING) WILL BE FIELD DETERMINED, PRIOR TO ANY REMOVAL OPERATIONS.
- (2.) CONTRACTOR WILL BE REQUIRED TO INSTALL SPEED HUMP SEPARATELY, AFTER SURFACE COURSE IS PLACED. SPEED HUMPS WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD FOR "SPEED HUMPS, COMPLETE". BUTT JOINTS FOR SPEED HUMPS WILL BE INCIDENTAL TO THE VARIOUS PAY ITEMS.
- (3.) EXACT LOCATIONS OF THE FULL DEPTH PATCHES (HES) AND/OR CLASS "D" PATCHES WILL BE FIELD DETERMINED, AFTER MILLING OF EXISTING ROADWAY SURFACE.
- (4.) EXISTING TYPE B CURB WILL BE REMOVED AND REPLACED WITH COMBINATION CONCRETE CURB AND GUTTER, TYPE B6.12, WILL BE FIELD DETERMINED.
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- (7.) ADDITIONAL CONCRETE REMOVAL AND REPLACEMENT WORK WILL BE FIELD DETERMINED.
- (8.) CONTRACTOR WILL BE REQUIRED TO DO CONCRETE WORK ON ONE SIDE OF THE STREET AT A TIME.



2025 WATER MAIN IMPROVEMENTS
AND STREET RESURFACING PROJECT
DARROW AVENUE (LEE TO DEMPSTER)

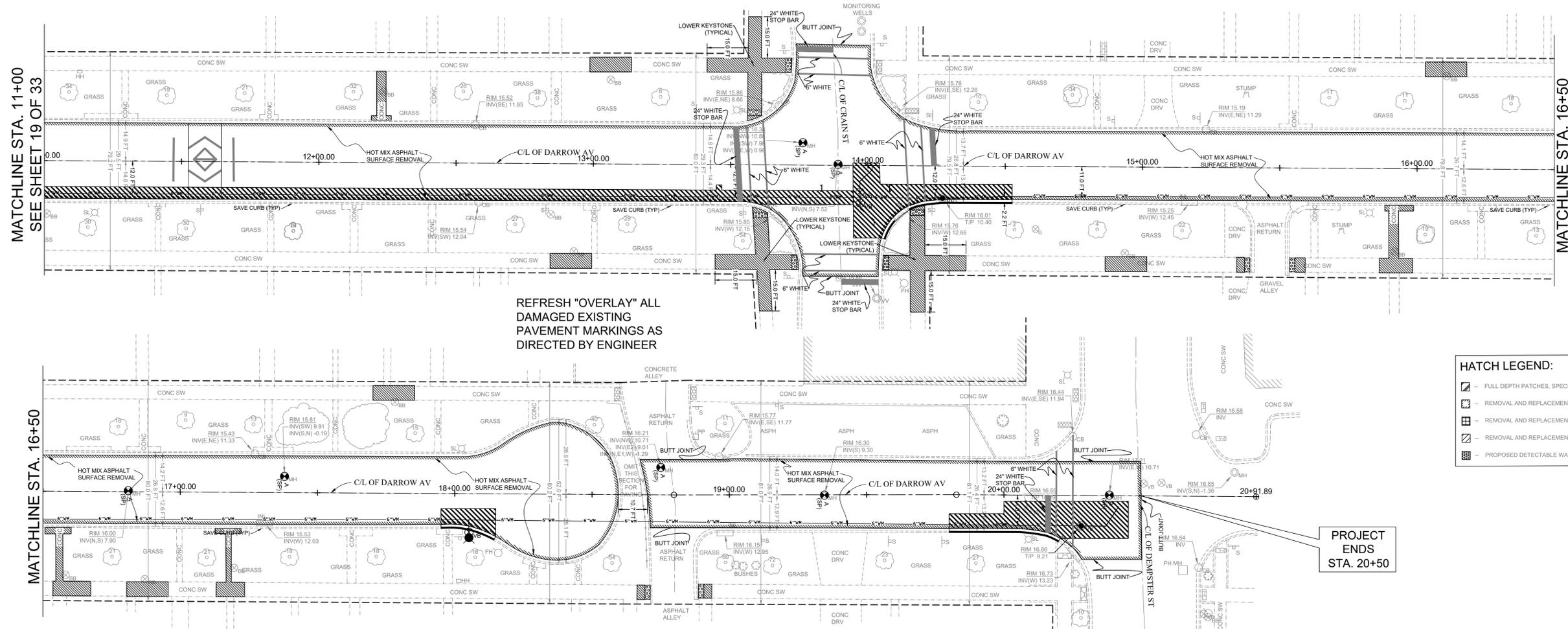
SCALE	1" = 20' H 1" = 2' V
PROJECT NUMBER:	PW-WMRS-2502
BID NUMBER:	25-08
ISSUED FOR:	BID
DATE:	01/21/2025
DESIGNED BY:	AA
DRAWN BY:	AA, BN
CHECKED BY:	BN
SHEET	19 OF 33

NO.	DATE	REVISION
1		
2		
3		
4		

DARROW AVENUE
(ASPHALT OVER CONCRETE/MACADAM)

RESURFACING PLAN

STA 0+80 TO STA 20+50 MILL (VARIABLE DEPTH) OF EXISTING ROADWAY SURFACE AND REPLACE WITH ±3/4" TO 1" LEVELING BINDER (MACHINE METHOD), N50 (IL9.5mm) AND 2" HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL 9.5 mm).

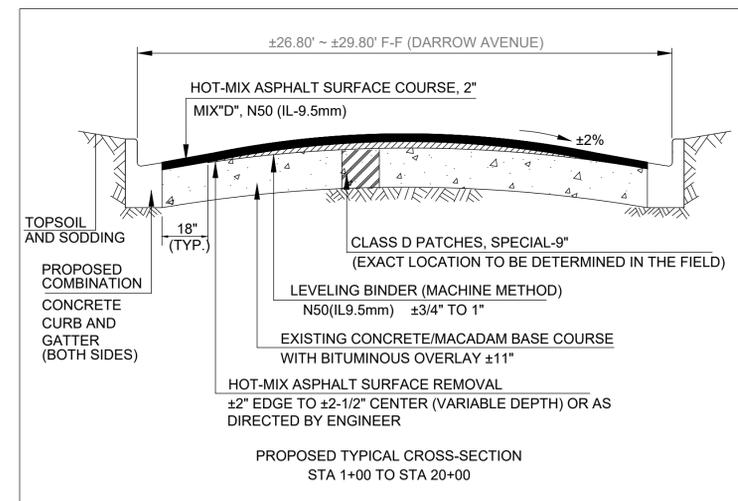
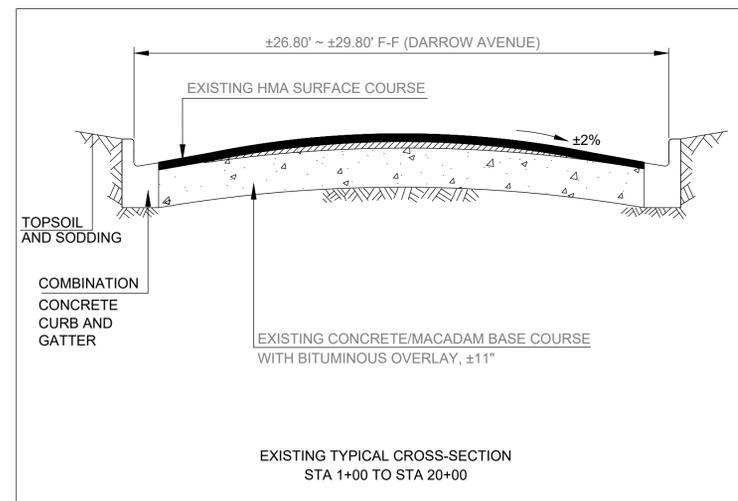


HATCH LEGEND:

- FULL DEPTH PATCHES, SPECIAL ±11.0"
- REMOVAL AND REPLACEMENT OF ASPHALT SURFACES
- REMOVAL AND REPLACEMENT OF DRIVEWAYS
- REMOVAL AND REPLACEMENT OF SIDEWALKS
- PROPOSED DETECTABLE WARNINGS

PROJECT ENDS
STA. 20+50

- (1.) TEMPORARY FENCE INSTALLATION AND EARTH SAWCUTS OF TREE ROOTS (ROOT PRUNING) WILL BE FIELD DETERMINED, PRIOR TO ANY REMOVAL OPERATIONS.
- (2.) CONTRACTOR WILL BE REQUIRED TO INSTALL SPEED HUMP SEPARATELY, AFTER SURFACE COURSE IS PLACED. SPEED HUMPS WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD FOR "SPEED HUMPS, COMPLETE". BUTT JOINTS FOR SPEED HUMPS WILL BE INCIDENTAL TO THE VARIOUS PAY ITEMS.
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2025 WATER MAIN IMPROVEMENTS
AND STREET RESURFACING PROJECT
DARROW AVENUE (LEE TO DEMPSTER)

NO.	DATE	REVISION
1		
2		
3		
4		

SCALE
1" = 20' H
1" = 2' V

PROJECT NUMBER:
PW-WMRS-2502

BID NUMBER:
25-08

ISSUED FOR:
BID

DATE: 01/21/2025

DESIGNED BY: AA

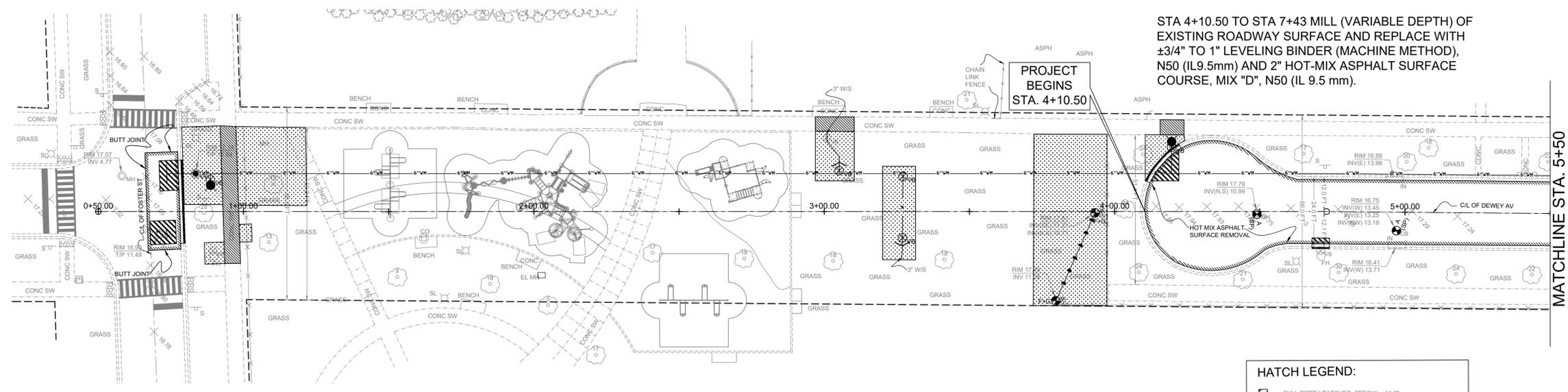
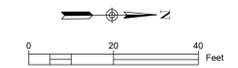
DRAWN BY: AA, BN

CHECKED BY: BN

DEWEY AVENUE
(PARK AREA)

DEWEY AVENUE
(CUL-DE-SAC TO SIMPSON ST)
RESURFACING PLAN

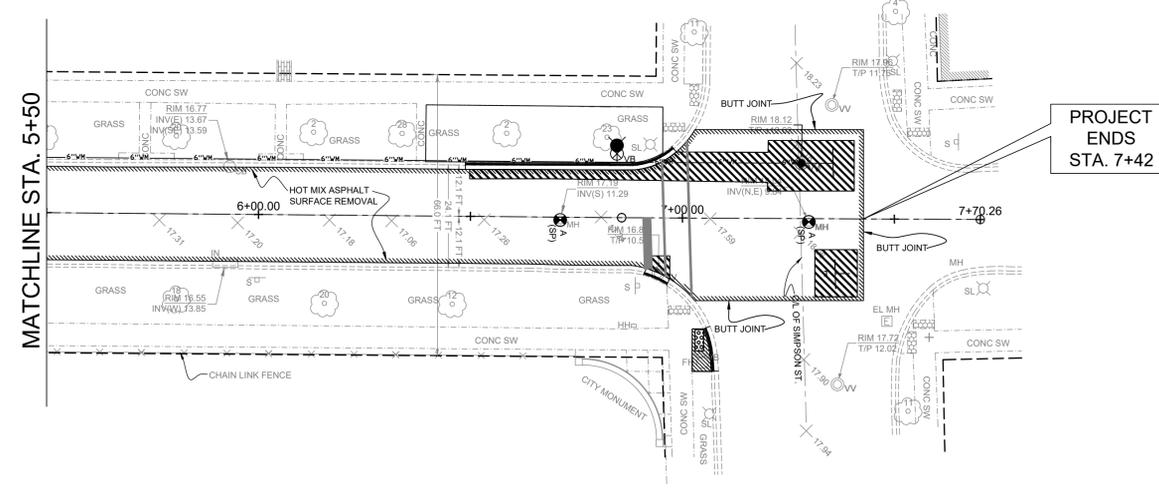
DEWEY AVENUE
(ASPHALT OVER MACADAM)



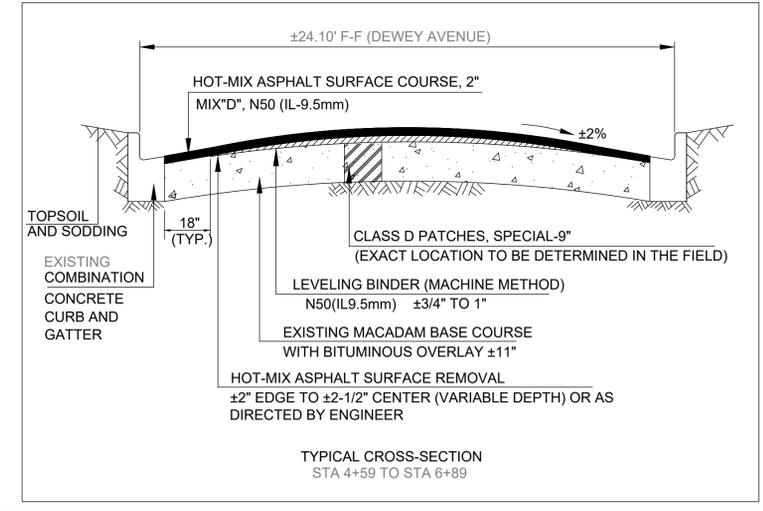
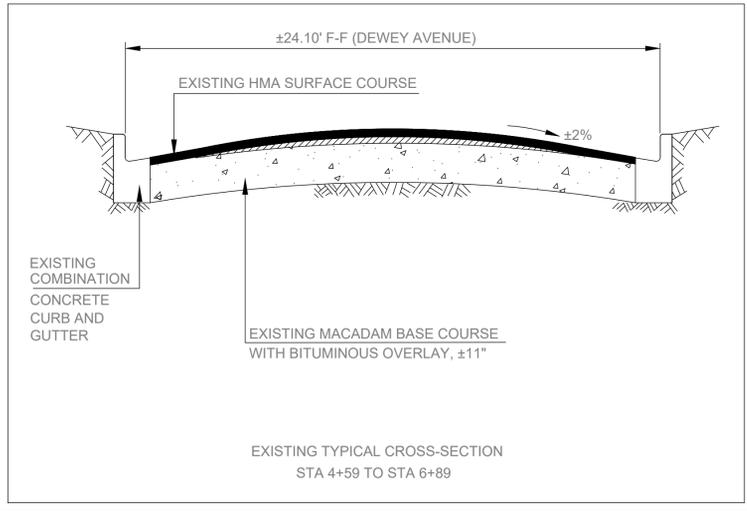
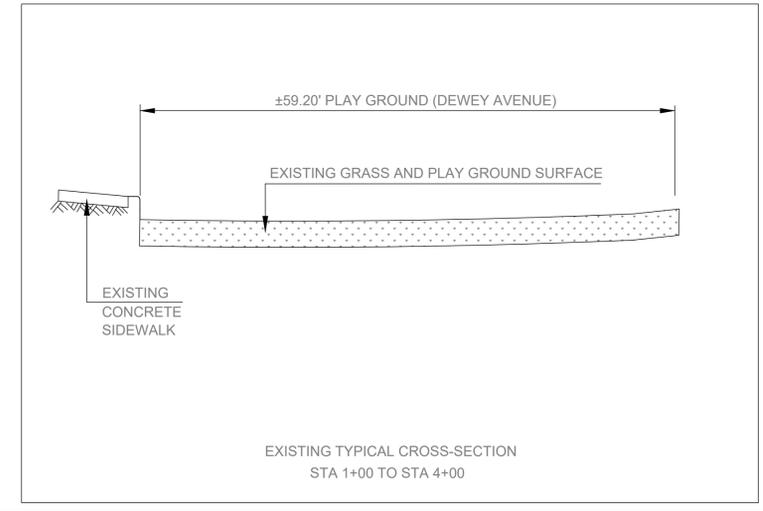
REFRESH "OVERLAY" ALL DAMAGED EXISTING PAVEMENT MARKINGS AS DIRECTED BY ENGINEER

HATCH LEGEND:

- FULL DEPTH PATCHES, SPECIAL ±11'0"
- REMOVAL AND REPLACEMENT OF ASPHALT SURFACES
- REMOVAL AND REPLACEMENT OF ASPHALT DRIVEWAYS
- REMOVAL AND REPLACEMENT OF CONCRETE DRIVEWAYS
- REMOVAL AND REPLACEMENT OF SIDEWALKS
- PROPOSED DETECTABLE WARNINGS



- (1) TEMPORARY FENCE INSTALLATION AND EARTH SAWCUTS OF TREE ROOTS (ROOT PRUNING) WILL BE FIELD DETERMINED, PRIOR TO ANY REMOVAL OPERATIONS.
- (2) CONTRACTOR WILL BE REQUIRED TO INSTALL SPEED HUMP SEPARATELY, AFTER SURFACE COURSE IS PLACED. SPEED HUMPS WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD FOR "SPEED HUMPS, COMPLETE". BUTT JOINTS FOR SPEED HUMPS WILL BE INCIDENTAL TO THE VARIOUS PAY ITEMS.
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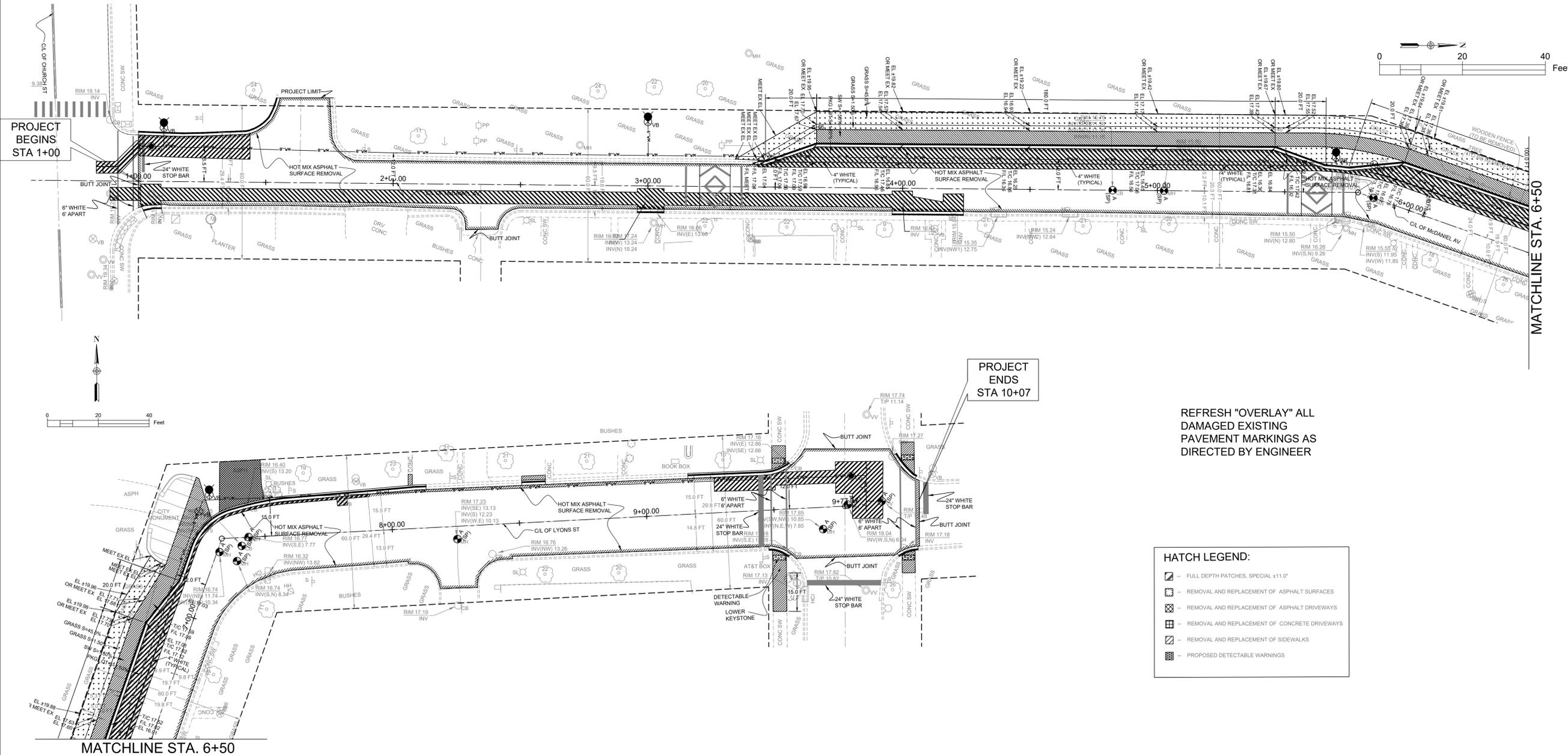
NO.	DATE	REVISION
1		
2		
3		
4		

**2025 WATER MAIN IMPROVEMENTS
AND STREET RESURFACING PROJECT
DEWEY AVENUE (FOSTER TO SIMPSON)**

SCALE 1" = 20' H 1" = 2' V
PROJECT NUMBER: PW-WMRS-2502
BID NUMBER: 25-08
ISSUED FOR: BID
DATE: 01/21/2025
DESIGNED BY: AA
DRAWN BY: AA, BN
CHECKED BY: BN
SHEET 21 OF 33

MCDANIEL AVENUE
(ASPHALT OVER WBM)
RESURFACING PLAN

STA 1+00 TO STA 10+07 MILL (VARIABLE DEPTH) OF EXISTING ROADWAY SURFACE AND REPLACE WITH ±3/4" TO 1" LEVELING BINDER (MACHINE METHOD), N50 (IL9.5mm) AND 2" HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL 9.5 mm).



REFRESH "OVERLAY" ALL DAMAGED EXISTING PAVEMENT MARKINGS AS DIRECTED BY ENGINEER

HATCH LEGEND:

- FULL DEPTH PATCHES, SPECIAL ±11.0"
- REMOVAL AND REPLACEMENT OF ASPHALT SURFACES
- REMOVAL AND REPLACEMENT OF ASPHALT DRIVEWAYS
- REMOVAL AND REPLACEMENT OF CONCRETE DRIVEWAYS
- REMOVAL AND REPLACEMENT OF SIDEWALKS
- PROPOSED DETECTABLE WARNINGS

- (1.) TEMPORARY FENCE INSTALLATION AND EARTH SAWCUTS OF TREE ROOTS (ROOT PRUNING) WILL BE FIELD DETERMINED, PRIOR TO ANY REMOVAL OPERATIONS.
- (2.) CONTRACTOR WILL BE REQUIRED TO INSTALL SPEED HUMP SEPARATELY, AFTER SURFACE COURSE IS PLACED. SPEED HUMPS WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD FOR "SPEED HUMPS, COMPLETE". BUTT JOINTS FOR SPEED HUMPS WILL BE INCIDENTAL TO THE VARIOUS PAY ITEMS.
- (3.) EXACT LOCATIONS OF THE FULL DEPTH PATCHES (HES) AND/OR CLASS "D" PATCHES WILL BE FIELD DETERMINED, AFTER MILLING OF EXISTING ROADWAY SURFACE.
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- (7.) ADDITIONAL CONCRETE REMOVAL AND REPLACEMENT WORK WILL BE FIELD DETERMINED.
- (8.) CONTRACTOR WILL BE REQUIRED TO DO CONCRETE WORK ON ONE SIDE OF THE STREET AT A TIME.

NO.	DATE	REVISION
1		
2		
3		
4		

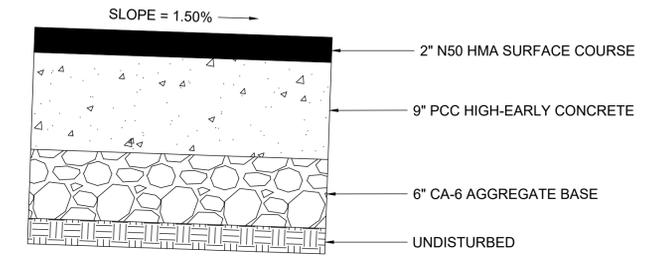
**2025 WATER MAIN IMPROVEMENTS
AND STREET RESURFACING PROJECT
MCDANIEL AVE (CHURCH TO LELAND)**

SCALE 1" = 20' H 1" = 2' V
PROJECT NUMBER: PW-WMRS-2502
BID NUMBER: 25-08
ISSUED FOR: BID
DATE: 01/21/2025
DESIGNED BY: AA
DRAWN BY: AA, BN
CHECKED BY: BN
SHEET 22 OF 33

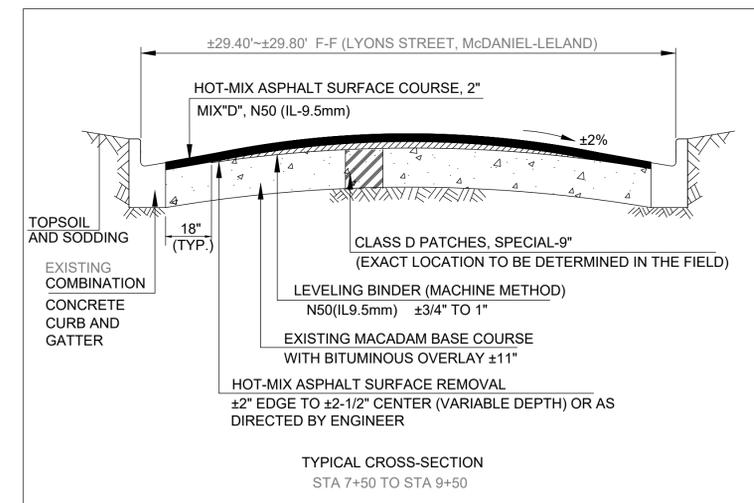
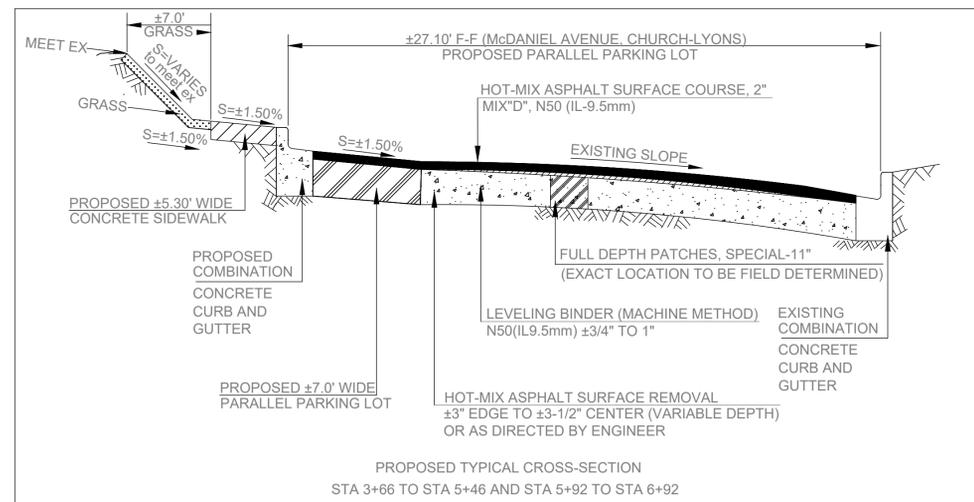
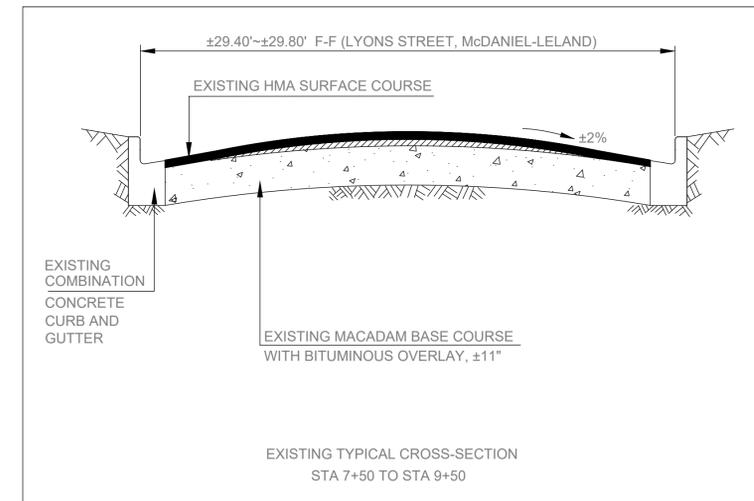
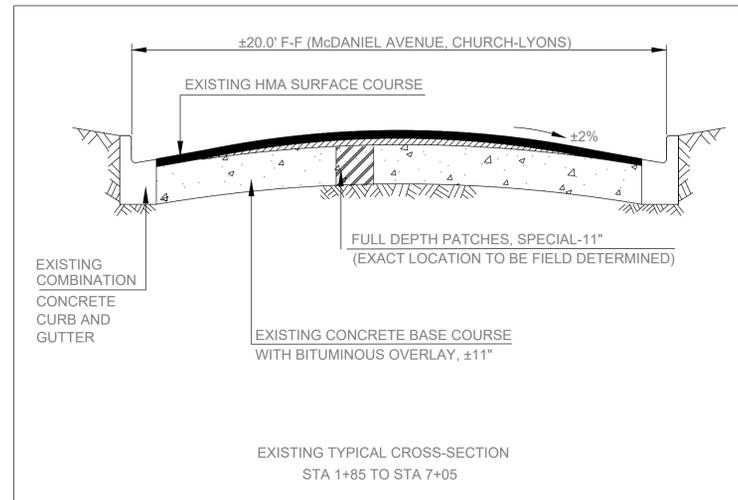
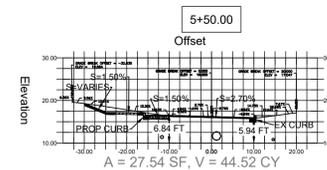
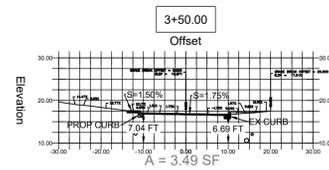
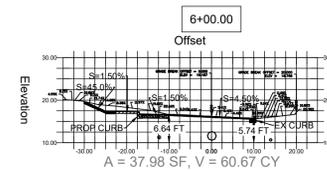
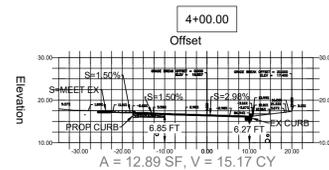
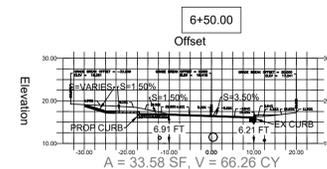
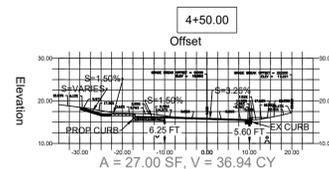
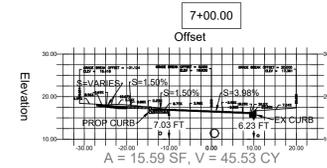
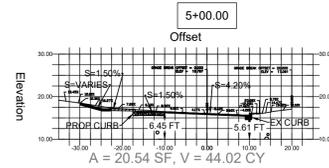
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MCDANIEL AVENUE
(ASPHALT OVER WBM)

PROPOSED PARALLEL PARKING LOT
CROSS - SECTIONS



PARKING LOT DETAIL
NOT TO SCALE



NO.	DATE	REVISION
1		
2		
3		
4		

2025 WATER MAIN IMPROVEMENTS
AND STREET RESURFACING PROJECT
MCDANIEL AVE (CHURCH TO LELAND)

SCALE
1" = 20' H
1" = 2' V

PROJECT NUMBER:
PW-WMRS-2502

BID NUMBER:
25-08

ISSUED FOR:
BID

DATE: 01/21/2025

DESIGNED BY: AA

DRAWN BY: AA, BN

CHECKED BY: BN

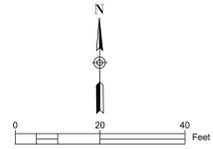
SHEET
23 OF 33



**PARK PLACE
(ASPHALT OVER MACADAM)**

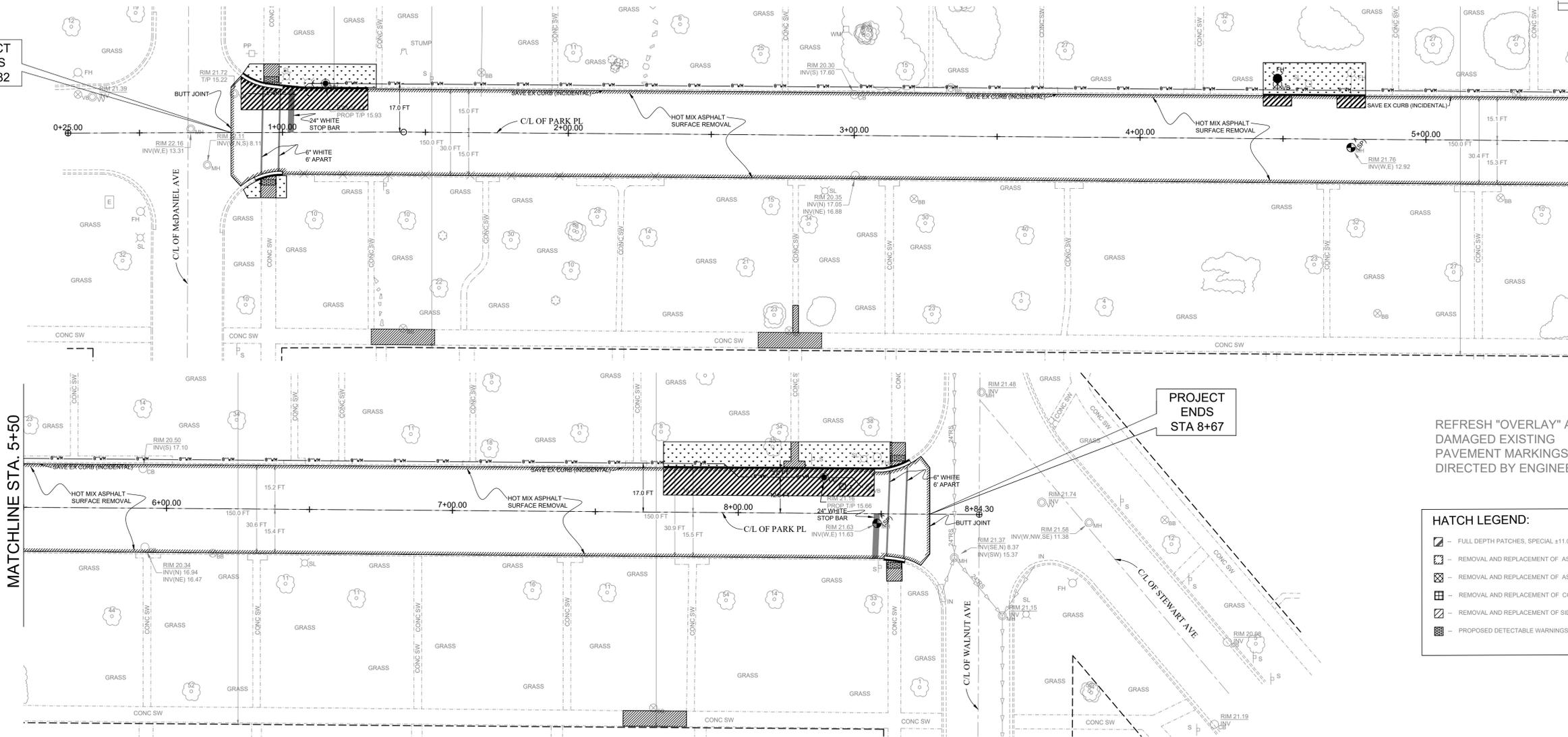
RESURFACING PLAN

STA 0+82 TO STA 8+67 MILL (VARIABLE DEPTH) OF EXISTING ROADWAY SURFACE AND REPLACE WITH ±3/4" TO 1" LEVELING BINDER (MACHINE METHOD), N50 (IL9.5mm) AND 2" HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL 9.5 mm).



PROJECT BEGINS STA 0+82

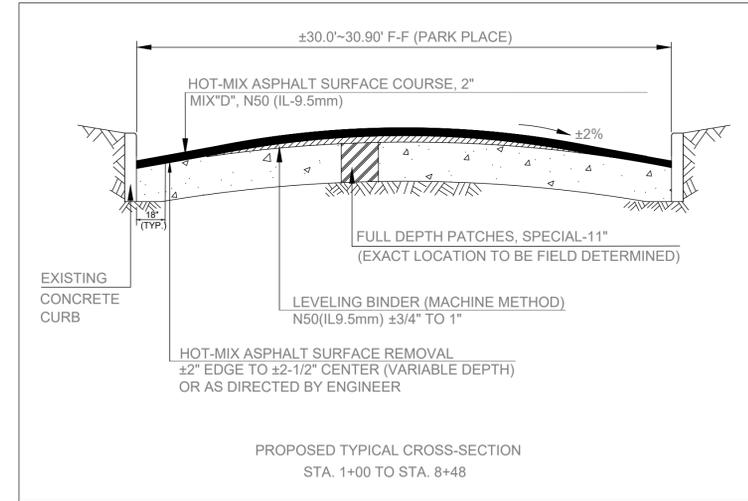
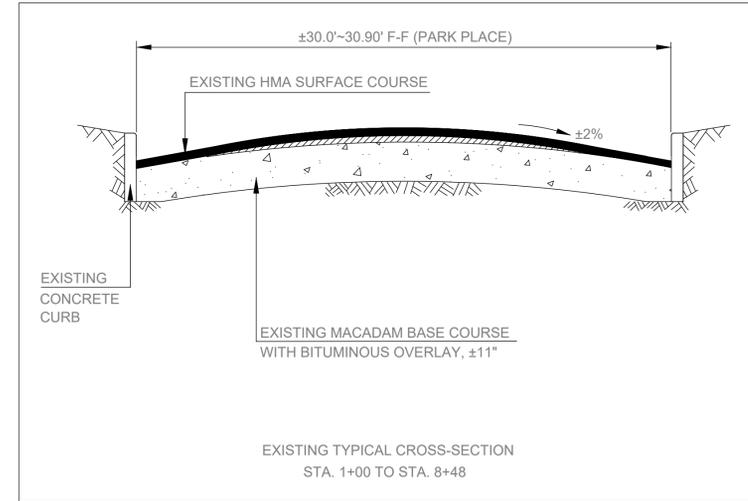
MATCHLINE STA. 5+50



HATCH LEGEND:

- FULL DEPTH PATCHES, SPECIAL ±11.0"
- REMOVAL AND REPLACEMENT OF ASPHALT SURFACES
- REMOVAL AND REPLACEMENT OF CONCRETE DRIVEWAYS
- REMOVAL AND REPLACEMENT OF SIDEWALKS
- PROPOSED DETECTABLE WARNINGS

- (1.) TEMPORARY FENCE INSTALLATION AND EARTH SAWCUTS OF TREE ROOTS (ROOT PRUNING) WILL BE FIELD DETERMINED, PRIOR TO ANY REMOVAL OPERATIONS.
- (2.) CONTRACTOR WILL BE REQUIRED TO INSTALL SPEED HUMP SEPARATELY, AFTER SURFACE COURSE IS PLACED. SPEED HUMPS WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD FOR "SPEED HUMPS, COMPLETE". BUTT JOINTS FOR SPEED HUMPS WILL BE INCIDENTAL TO THE VARIOUS PAY ITEMS.
- (3.) EXACT LOCATIONS OF THE FULL DEPTH PATCHES (HES) AND/OR CLASS "D" PATCHES WILL BE FIELD DETERMINED, AFTER MILLING OF EXISTING ROADWAY SURFACE.
- (4.) EXISTING TYPE B CURB WILL BE REMOVED AND REPLACED WITH COMBINATION CONCRETE CURB AND GUTTER, TYPE B6.12, WILL BE FIELD DETERMINED.
- (5.) THE WORK IN NOTE 3 WILL BE PAID FOR AT THE CONTRACT UNIT PRICE BID FOR "PAVEMENT REMOVAL", "CURB REMOVAL", AND "COMBINATION CONCRETE CURB AND GUTTER TYPE B6.12".
- (6.) THE CONTRACTOR SHALL BE RESPONSIBLE TO VISUALLY FIELD VERIFY ALL STRUCTURES CALLING FOR RECONSTRUCTION OR REPLACEMENT IN ORDER TO DETERMINE THE EXTEND AND MAGNITUDE OF THE WORK REQUIRED. FULL DEPTH SAW CUTTING WILL BE REQUIRED FOR ALL UTILITY WORK.
- (7.) ADDITIONAL CONCRETE REMOVAL AND REPLACEMENT WORK WILL BE FIELD DETERMINED.
- (8.) CONTRACTOR WILL BE REQUIRED TO DO CONCRETE WORK ON ONE SIDE OF THE STREET AT A TIME.



**2025 WATER MAIN IMPROVEMENTS
AND STREET RESURFACING PROJECT
PARK PLACE (MCDANIEL TO WALNUT)**

NO.	DATE	REVISION
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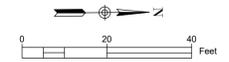
SCALE	1" = 20' H 1" = 2' V
PROJECT NUMBER:	PW-WMRS-2502
BID NUMBER:	25-08
ISSUED FOR:	BID
DATE:	01/21/2025
DESIGNED BY:	AA
DRAWN BY:	AA, BN
CHECKED BY:	BN

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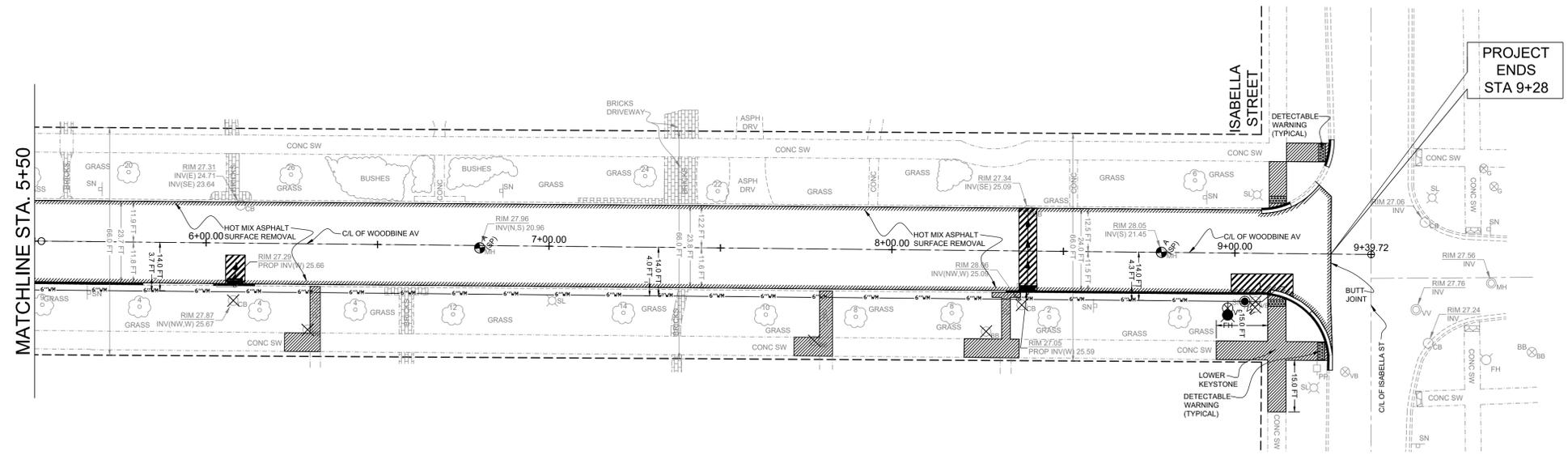
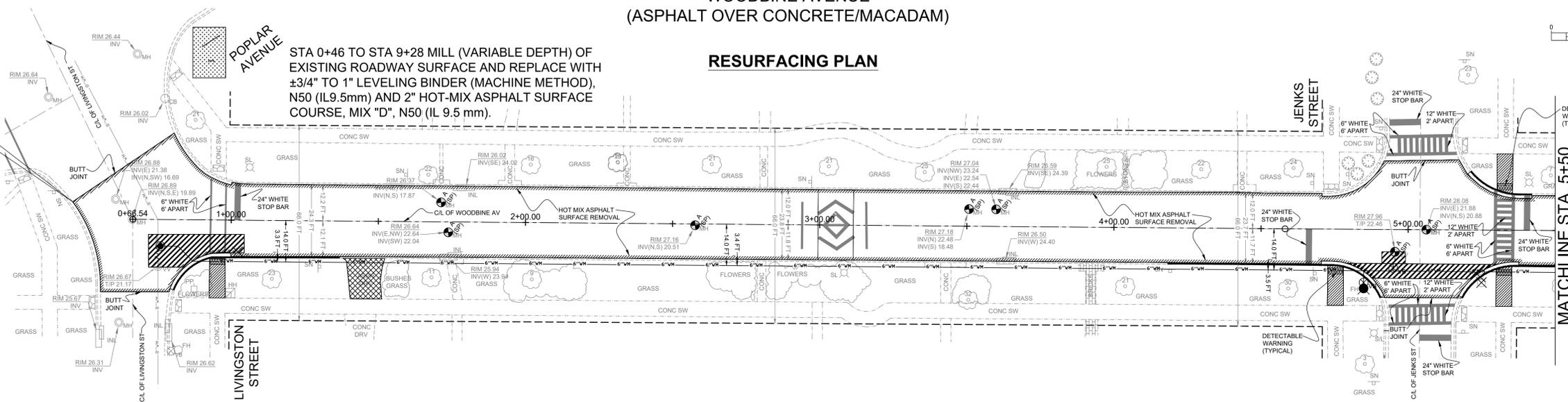
WOODBINE AVENUE
(ASPHALT OVER CONCRETE/MACADAM)

RESURFACING PLAN

STA 0+46 TO STA 9+28 MILL (VARIABLE DEPTH) OF EXISTING ROADWAY SURFACE AND REPLACE WITH ±3/4" TO 1" LEVELING BINDER (MACHINE METHOD), N50 (IL9.5mm) AND 2" HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL 9.5 mm).



PROJECT BEGINS
STA 0+46

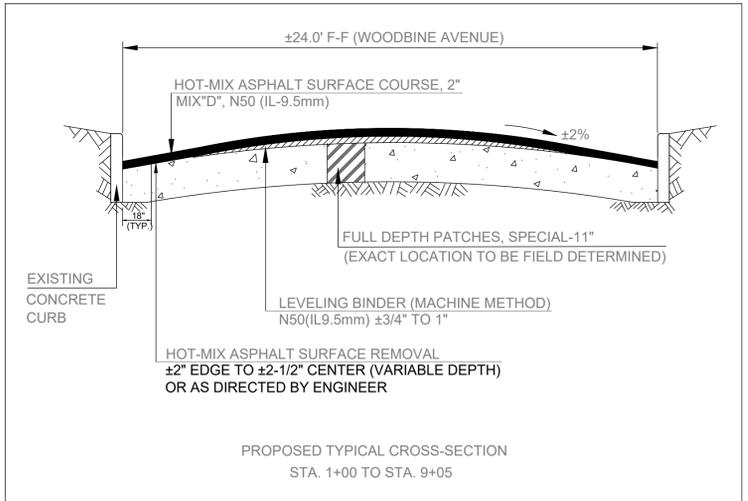
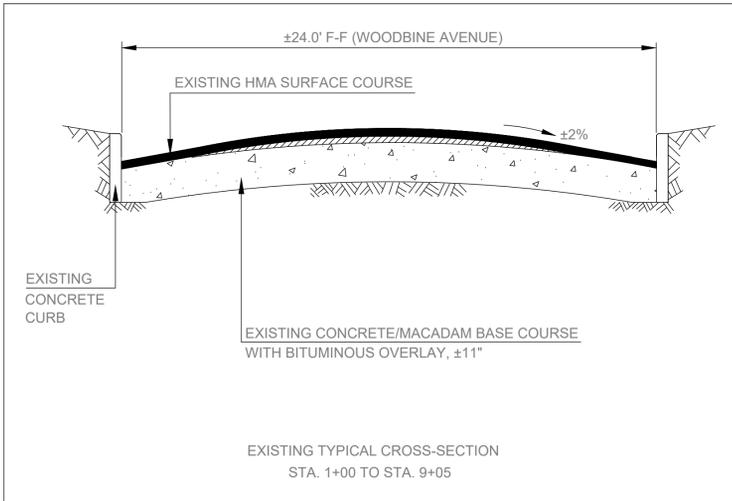


REFRESH "OVERLAY" ALL DAMAGED EXISTING PAVEMENT MARKINGS AS DIRECTED BY ENGINEER

HATCH LEGEND:

- FULL DEPTH PATCHES, SPECIAL ±11.0"
- REMOVAL AND REPLACEMENT OF ASPHALT SURFACES
- REMOVAL AND REPLACEMENT OF ASPHALT DRIVEWAYS
- REMOVAL AND REPLACEMENT OF CONCRETE DRIVEWAYS
- REMOVAL AND REPLACEMENT OF SIDEWALKS
- PROPOSED DETECTABLE WARNINGS

- (1) TEMPORARY FENCE INSTALLATION AND EARTH SAWCUTS OF TREE ROOTS (ROOT PRUNING) WILL BE FIELD DETERMINED, PRIOR TO ANY REMOVAL OPERATIONS.
- (2) CONTRACTOR WILL BE REQUIRED TO INSTALL SPEED HUMP SEPARATELY, AFTER SURFACE COURSE IS PLACED. SPEED HUMPS WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD FOR "SPEED HUMPS, COMPLETE". BUTT JOINTS FOR SPEED HUMPS WILL BE INCIDENTAL TO THE VARIOUS PAY ITEMS.
- (3) EXACT LOCATIONS OF THE FULL DEPTH PATCHES (HES) AND/OR CLASS "D" PATCHES WILL BE FIELD DETERMINED, AFTER MILLING OF EXISTING ROADWAY SURFACE.
- (4) EXISTING TYPE B CURB WILL BE REMOVED AND REPLACED WITH COMBINATION CONCRETE CURB AND GUTTER, TYPE B6.12, WILL BE FIELD DETERMINED.
- (5) THE WORK IN NOTE 3 WILL BE PAID FOR AT THE CONTRACT UNIT PRICE BID FOR "PAVEMENT REMOVAL", "CURB REMOVAL", AND "COMBINATION CONCRETE CURB AND GUTTER TYPE B6.12".
- (6) THE CONTRACTOR SHALL BE RESPONSIBLE TO VISUALLY FIELD VERIFY ALL STRUCTURES CALLING FOR RECONSTRUCTION OR REPLACEMENT IN ORDER TO DETERMINE THE EXTEND AND MAGNITUDE OF THE WORK REQUIRED. FULL DEPTH SAW CUTTING WILL BE REQUIRED FOR ALL UTILITY WORK.
- (7) ADDITIONAL CONCRETE REMOVAL AND REPLACEMENT WORK WILL BE FIELD DETERMINED.
- (8) CONTRACTOR WILL BE REQUIRED TO DO CONCRETE WORK ON ONE SIDE OF THE STREET AT A TIME.



2025 WATER MAIN IMPROVEMENTS
AND STREET RESURFACING PROJECT
WOODBINE AVE (LIVINGSTON TO ISABELLA)

NO.	DATE	REVISION
1		
2		
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SCALE
1" = 20' H
1" = 2' V

PROJECT NUMBER:
PW-WMRS-2502

BID NUMBER:
25-08

ISSUED FOR:
BID

DATE: 01/21/2025

DESIGNED BY: AA

DRAWN BY: AA, BN

CHECKED BY: BN

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EROSION AND SEDIMENT CONTROL PLAN

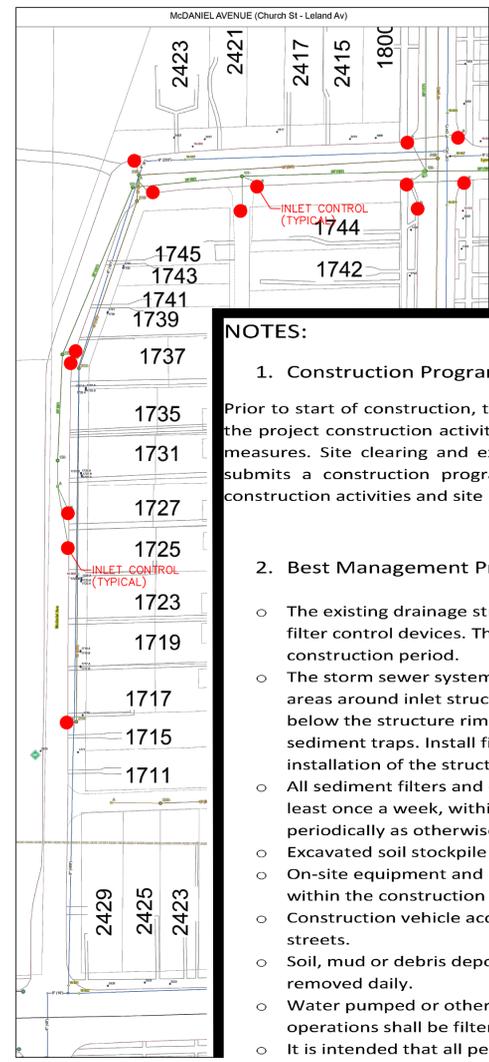
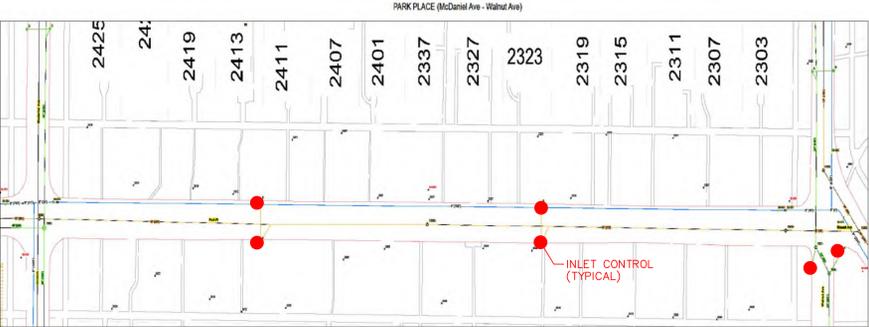
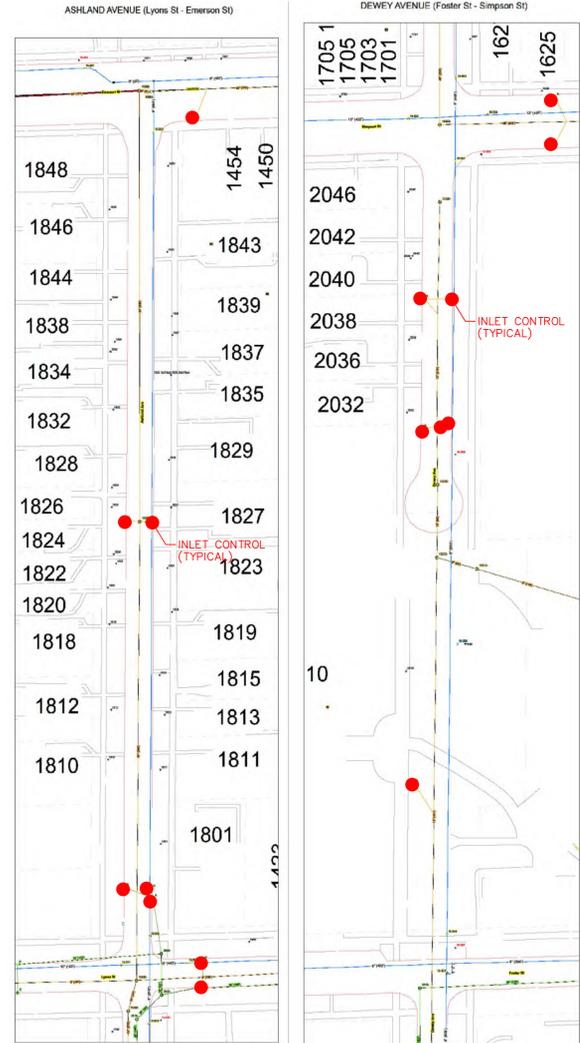
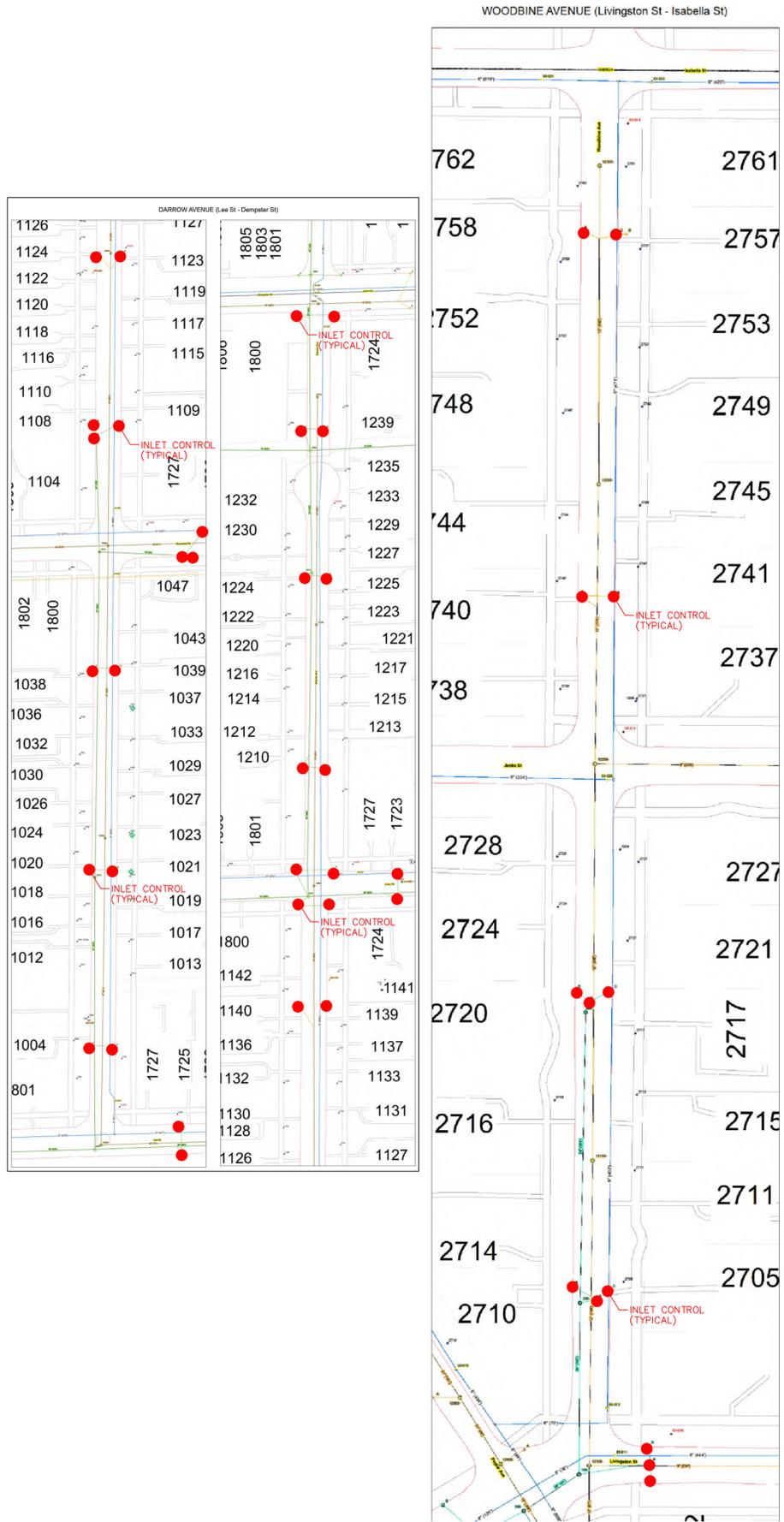
● --- INLET CONTROL LOCATIONS

Legend

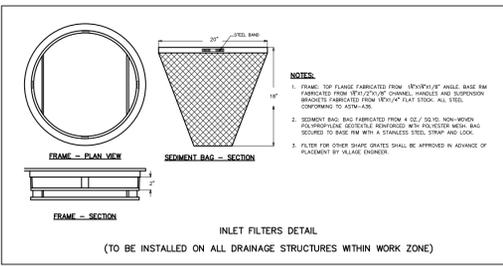
Comb. Mins - ACTIVE

SubType RESPONSIBILITY

- Comb. Main, City
- Comb. Outfall, City
- Comb. Interceptor, City
- Comb. Inv. Siphon, City
- Comb. Overflow, City
- Main, MWRD
- Outfall, MWRD
- Interceptor, MWRD
- Inverted Siphon, MWRD
- Overflow, MWRD
- Main, Private
- Outfall, Private
- City Boundary
- Street, Public
- Water Bodies
- City Backroad (white)
- Rail Main, City
- Rail Outfall, City
- Rail Inv. Siphon, City
- Rail Overflow, City
- Main, MWRD
- Open Channel, MWRD
- Main, Private
- Outfall, Private
- Intercept, Private



- NOTES:**
- Construction Program Schedule**
Prior to start of construction, the contractor shall meet with the resident engineer and discuss the project construction activities, erosion and sediment control practices and site restoration measures. Site clearing and excavation shall not proceed until the contractor prepares and submits a construction program schedule for all erosion and sediment control practices, construction activities and site restoration measures.
 - Best Management Practices**
 - The existing drainage structures as indicated on the plans shall be provided with inlet filter control devices. These devices shall be maintained in place during the entire construction period.
 - The storm sewer system shall be installed as soon as earthwork operations permit. The areas around inlet structures shall be temporarily graded to ground level 12 inches below the structure rim to inhibit drainage into structure and create temporary sediment traps. Install filter fabric under the inlet casting grates immediately upon installation of the structures.
 - All sediment filters and erosion protection features shall be inspected and maintained at least once a week, within 24 hours of the end of a 0.50 inch rainfall event and periodically as otherwise necessary to allow them to operate effectively.
 - Excavated soil stockpile locations shall be limited to within the construction site.
 - On-site equipment and material staging and storage areas shall be limited to locations within the construction site.
 - Construction vehicle access shall be limited to defined connections to/from the adjacent streets.
 - Soil, mud or debris deposited, tracked or washed on the adjacent streets shall be removed daily.
 - Water pumped or otherwise discharged from the work site during dewatering operations shall be filtered to minimize the off-site discharge of suspended solids.
 - It is intended that all permanent grass areas be established with turf grass sod within seven days after completion of topsoil placement operations.



Washout water from the concrete trucks is not allowed to be discharged directly into the combined sewer system without pretreatment. If a concrete washout pad or dumpster is not maintained on site, the concrete trucks shall be required to return to the concrete supplies plant for washout cleaning.

The contractor shall be responsible for trench dewatering and excavation for the installation of sanitary sewers, storm sewers, water mains as well as their services and other appurtenances. Any trench dewatering, which contains sediment shall pass through a sediment settling pond or equally effective sediment control device. Alternatives may include dewatering into a sump pit, filter bag or existing vegetated upslope area. Sediment laden water shall not be discharged to waterways, flood protection areas or the combined sewer system.



REVISION	
NO.	DATE
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2025 WATER MAIN IMPROVEMENTS AND STREET RESURFACING PROJECT EROSION AND SEDIMENT CONTROL PLAN

SCALE	NTS
PROJECT NUMBER:	PW-WMRS-2502
BID NUMBER:	25-08
ISSUED FOR:	BID
DATE:	01/21/2025
DESIGNED BY:	AA
DRAWN BY:	AA, BN
CHECKED BY:	BN
SHEET	26 OF 33

CITY OF EVANSTON TYPICAL DETAILS

PIPE MATERIAL SPECIFICATION

WHERE POLYVINYL CHLORIDE PIPE (P.V.C.) IS CALLED FOR ON THE CONTRACT PLANS, IT SHALL BE SDR 26 IN CONFORMANCE WITH:

6" TO 15" PIPE ASTM D-3034
18" OR LARGER PIPE ASTM F-679

WHERE DUCTILE IRON PIPE (D.I.P.) IS CALLED FOR ON THE CONTRACT PLANS, IT SHALL BE:
FOR SEWER: CLASS 50 IN CONFORMANCE WITH:

ANSI A-21.51 PIPE
ANSI A-21.11 JOINT

FOR WATER: CLASS 52 IN CONFORMANCE WITH:

Mechanical Joints; AWWA C-153
Push-On Joints; AWWA C-153

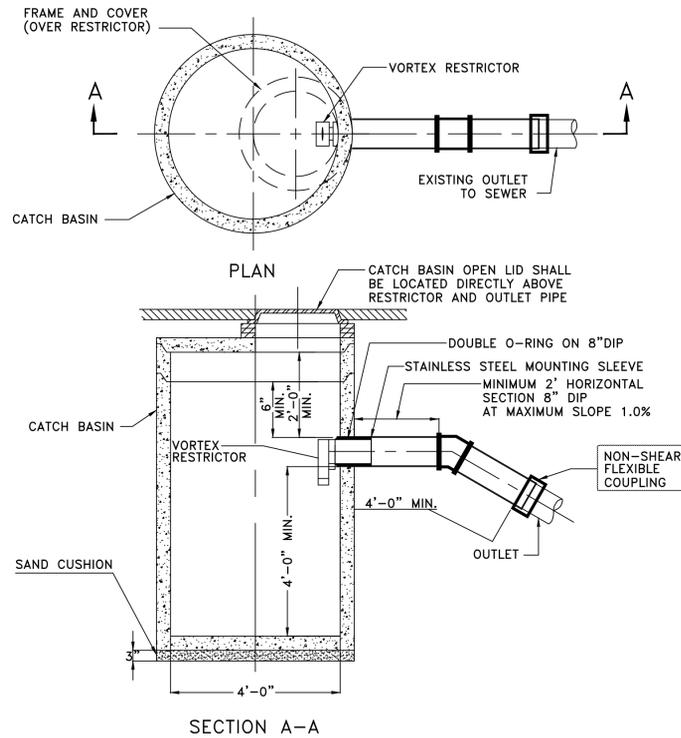
WHERE EXTRA STRENGTH CLAY PIPE (E.S.V.C.P.) IS CALLED FOR ON THE CONTRACT PLANS, IT SHALL BE IN CONFORMANCE WITH:

ASTM C-700 PIPE
ASTM C-425 JOINT

TABLE

A	B	C	D	E
48"	5"		24"	0.12
60"	6"	32" MIN	36"	0.17
72"	7"		48"	0.18
84"	8-3/4"	90" MAX	54"	0.21
96"	9"		60"	0.27

DETAIL OF CATCH BASIN, TYPE A



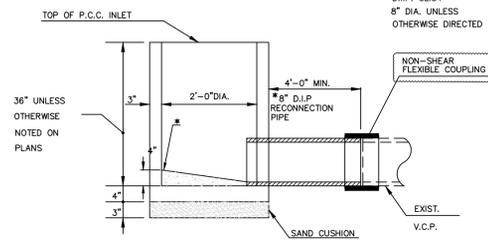
SPECIFICATION REFERENCE: SECTION 602

NOTE: WHEN CATCH BASIN IS CONNECTED TO THE EXISTING COMBINED SEWER, THE CONTRACTOR WILL BE REQUIRED TO INSTALL A VORTEX RESTRICTOR TO BE PROVIDED BY THE CITY. THIS WORK WILL BE CONSIDERED INCIDENTAL TO THE COST OF CATCH BASIN.

REFER TO SPECIAL PROVISIONS IN CONTRACT PROPOSAL.

NOTE: All inlet and outlet pipes of sanitary sewer manholes and other underground structures (and in combined sewer areas, also all combined storm sewer manholes, catch basins, inlets, and underground detention storage structures) shall be joined with watertight flexible rubber connections, conforming to A.S.T.M. C-443 and C-923 with stainless steel band.

INLET, TYPE A DETAIL

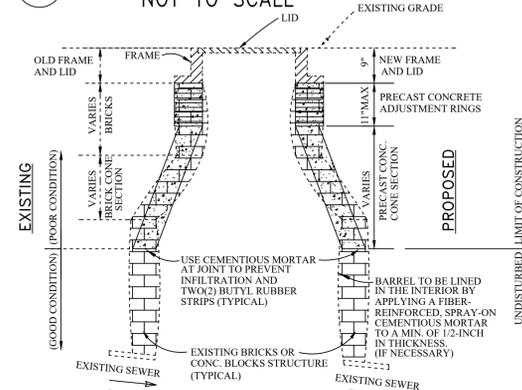


- * 1) PREFORMED TAPERED BOTTOM SHALL BE FURNISHED AT ALL END OF RUN INLETS
- 2) PROVIDE NON-SHRINK CONCRETE COLLAR AROUND BOOTED PIPE AND BENCH

SPECIFICATION REFERENCE: SECTION 602

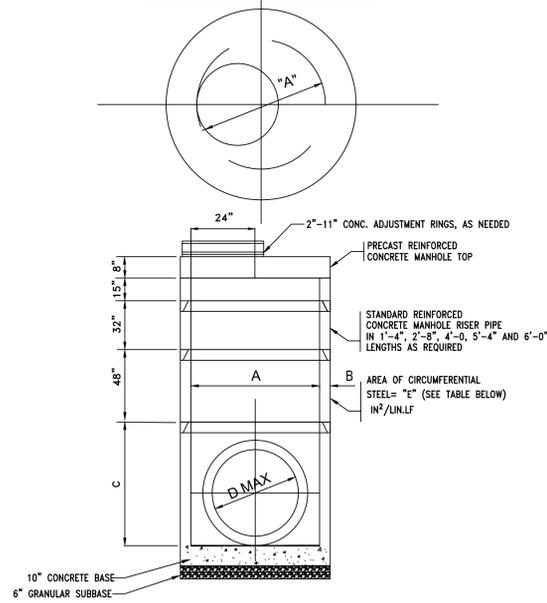
NOTE: All inlet and outlet pipes of sanitary sewer manholes and other underground structures (and in combined sewer areas, also all combined storm sewer manholes, catch basins, inlets, and underground detention storage structures) shall be joined with watertight flexible rubber connections, conforming to A.S.T.M. C-443 and C-923 with stainless steel band.

BRICKS OR CONCRETE BLOCKS STRUCTURE TYPICAL RECONSTRUCTION DETAIL NOT TO SCALE



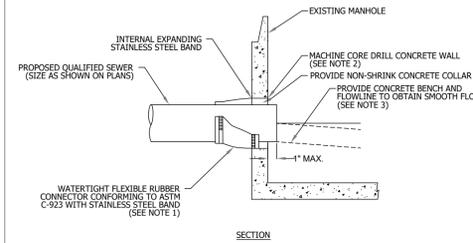
NOTE: All inlet and outlet pipes of sanitary sewer manholes and other underground structures (and in combined sewer areas, also all combined storm sewer manholes, catch basins, inlets, and underground detention storage structures) shall be joined with watertight flexible rubber connections, conforming to A.S.T.M. C-443 and C-923 with stainless steel band.

STANDARD MANHOLE WITH FLAT TOP DETAIL



- NOTE: 1) THE WATERTIGHT RESILIENT CONNECTOR (ASTM C 923) SHALL BE PROVIDED FOR CORED OPENINGS BETWEEN STRUCTURE AND SEWER PIPE.
- 2) PROVIDE NON-SHRINK CONCRETE COLLAR AROUND BOOTED PIPE AND BENCH.

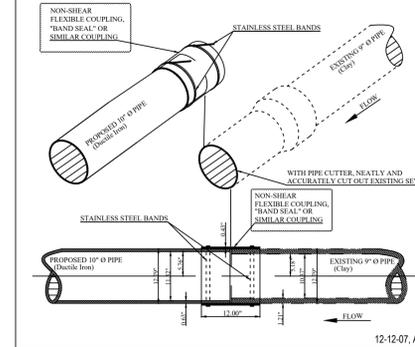
NOTE: All inlet and outlet pipes of sanitary sewer manholes and other underground structures (and in combined sewer areas, also all combined storm sewer manholes, catch basins, inlets, and underground detention storage structures) shall be joined with watertight flexible rubber connections, conforming to A.S.T.M. C-443 and C-923 with stainless steel band.



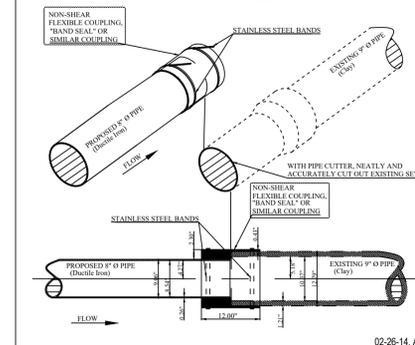
- NOTES:
- 1. RESILIENT CONNECTOR COMPLYING WITH ASTM STANDARD C-923 (MOST RECENT EDITION) SHALL BE USED.
- 2. MACHINE CORE/DRILL CIRCULAR OPENING IN STRUCTURE WALL. OPENING DIAMETER TO FIT THE REQUIRED RESILIENT CONNECTOR PER MANUFACTURER'S RECOMMENDATION.
- 3. CUT, SHAPE, AND SLOPE NEW INVERT CHANNEL IN THE EXISTING CONCRETE BENCH FOR SMOOTH FLOW.
- 4. CLEAN EXISTING STRUCTURE AND SEWER PIPE OF ANY DIRT, CONCRETE, OR DEBRIS WHICH MAY ACCUMULATE DURING THE CONSTRUCTION PROCESS.
- 5. ANY DAMAGE TO THE EXISTING MANHOLE SHALL BE REPAIRED BY THE CONTRACTOR.
- 6. REINFORCED CONCRETE COLLAR MAY BE SUBSTITUTED FOR PIPE DIAMETERS LARGER THAN 36-INCHES.

NOT TO SCALE	
TECHNICAL GUIDANCE MANUAL	10/02/18
PIPE TO EXISTING MANHOLE CONNECTION DETAIL	STD. DWG. NO. 42
	PAGE NO. 43

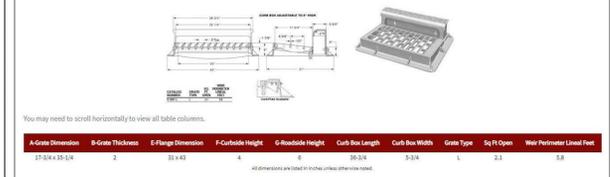
NEW 10" Ø PIPE TO EXISTING 9" Ø PIPE TYPICAL CONNECTION DETAIL NOT TO SCALE



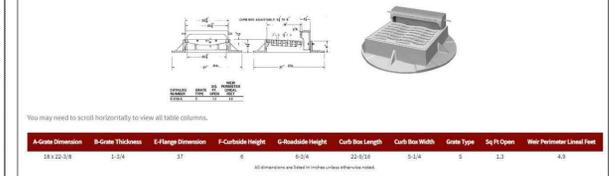
NEW 8" Ø PIPE TO EXISTING 9" Ø PIPE TYPICAL CONNECTION DETAIL NOT TO SCALE



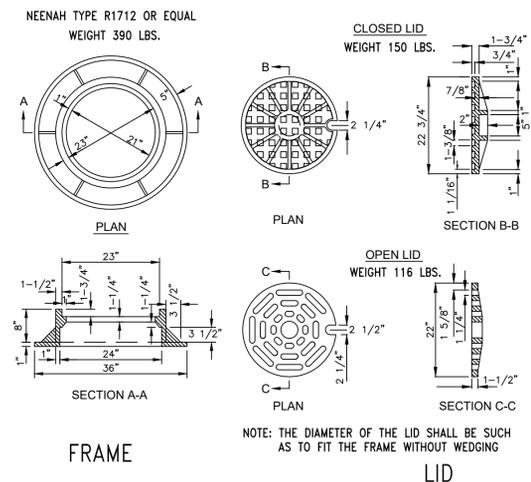
R-3067-L (NEENAH Foundry)



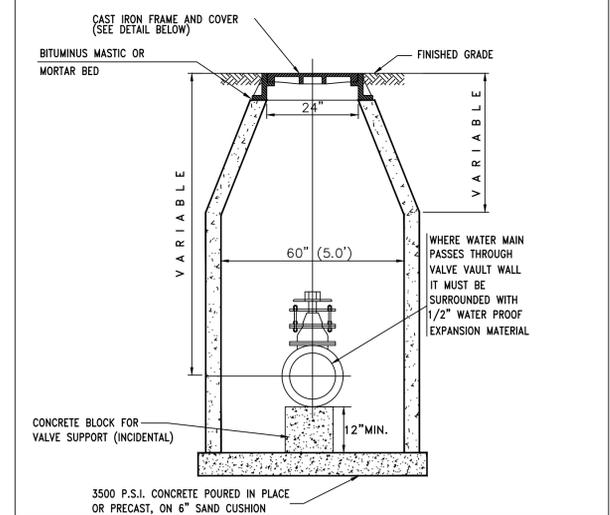
R-3159-A (NEENAH Foundry)



TYPE 1 FRAME AND LID DETAIL



VALVE VAULT DETAIL



NO.	DATE	REVISION
1		
2		
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2025 WATER MAIN IMPROVEMENTS AND STREET RESURFACING PROJECT

SCALE
NTS

PROJECT NUMBER:
PW-WMRS-2502

BID NUMBER:
25-08

ISSUED FOR:
BID

DATE: 01/21/2025

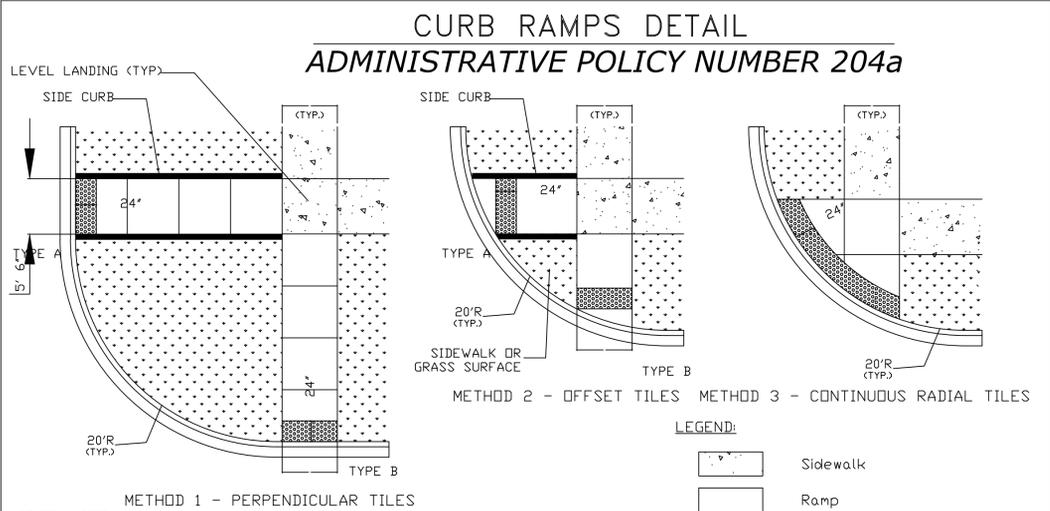
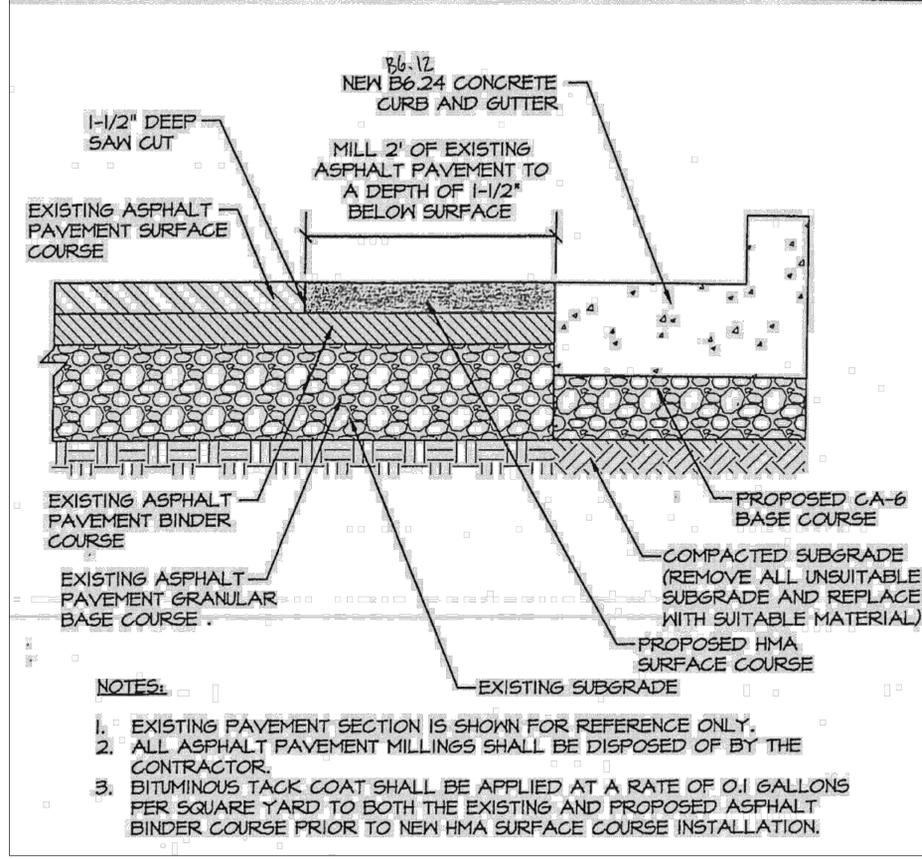
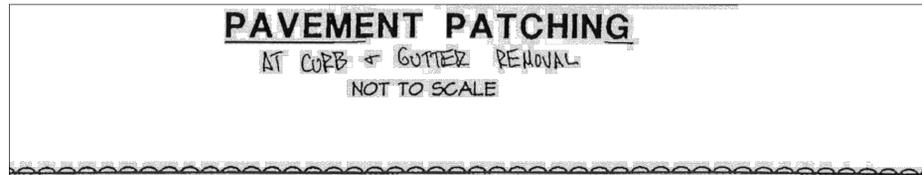
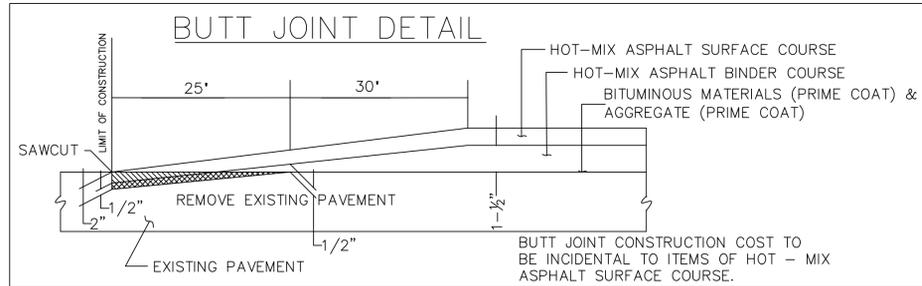
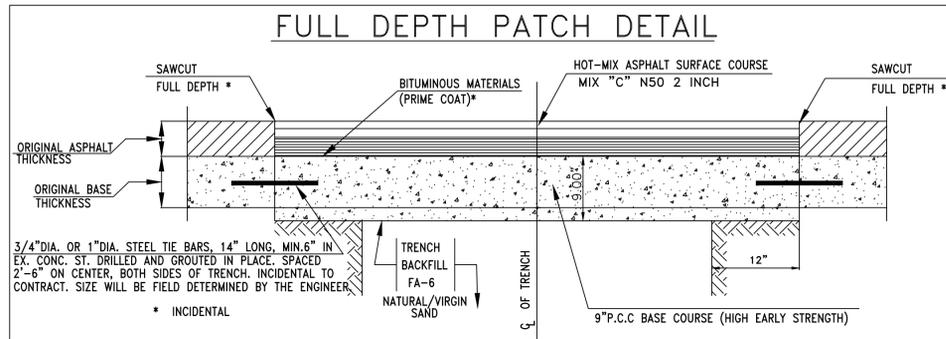
DESIGNED BY: AA

DRAWN BY: AA, BN

CHECKED BY: BN

SHEET
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CITY OF EVANSTON TYPICAL DETAILS



GENERAL NOTES:

1. DETECTABLE WARNING TILES SHALL BE INSTALLED THE FULL WIDTH OF THE CURB RAMP AS SHOWN ABOVE, ON THE PLANS, OR AS DIRECTED BY THE ENGINEER. TYPICAL WIDTHS ARE AS FOLLOWS:
 - a) 5' - 6' FOR METHODS 1 AND 2
 - b) VARIOUS LENGTHS OF RADIAL TILES FOR METHOD 3
2. A LEVEL LANDING (MINIMUM OF 5'x5' AREA WITH SLOPE IN ALL DIRECTIONS LESS THAN 2%) SHALL BE INSTALLED PRIOR TO ALL CURB RAMPS. METHOD 3 REQUIRES ENTIRE CORNER TO BE A LEVEL LANDING.
3. A DEVIATION OF A 1/2" OR MORE FROM ADJACENT SURFACES IS NOT ALLOWED.
4. SIDE CURBS AS SHOWN IN METHODS 1 AND 2 AS THE TYPE A RAMP WILL NOT BE PAID FOR SEPARATELY BUT WILL BE MEASURED FOR PAYMENT AS PCC SIDEWALK AND WILL BE REQUIRED AS DIRECTED BY THE ENGINEER OR AS SHOWN ON THE PLANS, WHILE TYPE B RAMPS WILL REQUIRE CURB OPENING SIDE FLARES.
5. SEE APPLICABLE PORTIONS OF IDOT HIGHWAY STANDARD 424001 (CURB RAMPS FOR SIDEWALKS), THE IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION SECTION 424 (PORTLAND CEMENT CONCRETE SIDEWALK), AND THE AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG) FOR ADDITIONAL REQUIREMENTS.
6. DEPRESSED CURB AND GUTTER ADJACENT TO CURB RAMPS SHALL BE INSTALLED TO THE DIMENSIONS PROVIDED IN IDOT HIGHWAY STANDARD 606001 (CONCRETE CURB TYPE B AND COMBINATION CURB AND GUTTER).
7. WHEN USING METHOD 3 ROADWAY CURB RADII SHALL BE INSTALLED AT 15', 20', OR 25' RADIUS TO THE BACK OF CURB AS NOTED ON PLANS OR AS DIRECTED BY ENGINEER.

LEGEND:

- Sidewalk
- Ramp
- Detectable Warnings, Red
- Non walking area (Grass)

CITY OF EVANSTON
PUBLIC WORKS AGENCY
CAPITAL PLANNING AND ENGINEERING BUREAU

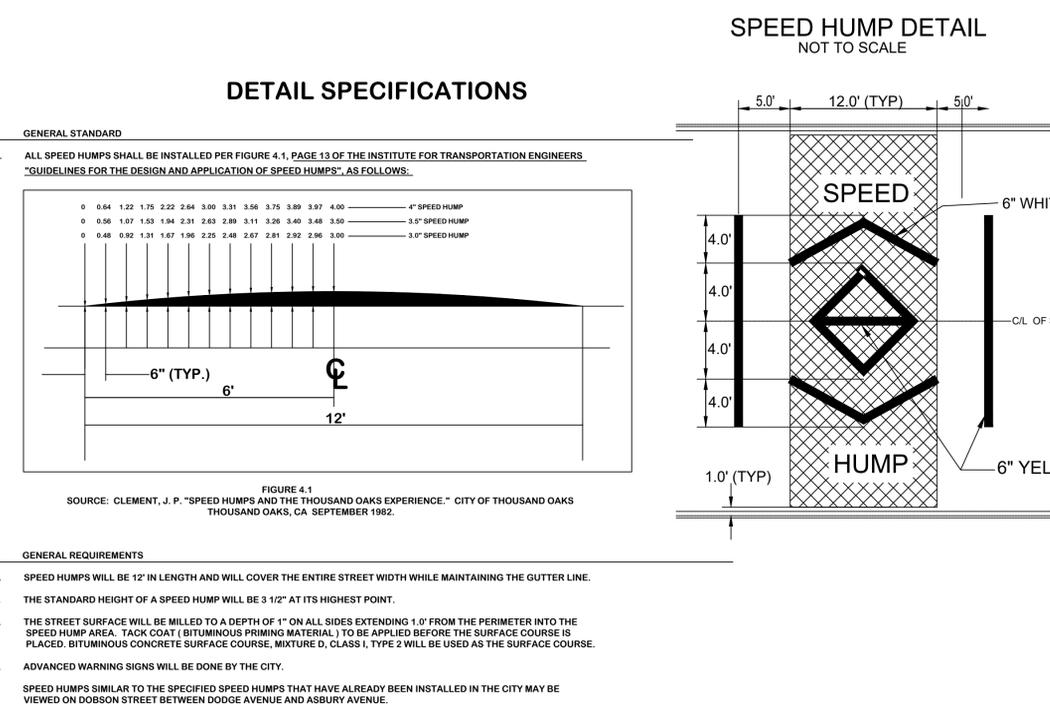
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CITY ENGINEER: _____

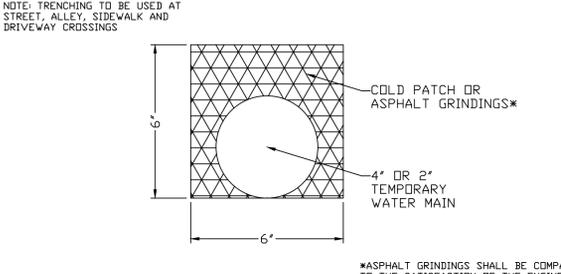
DIRECTOR OF PUBLIC WORKS: _____

IDOT STANDARDS:

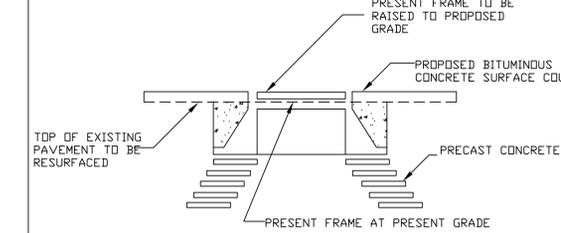
- 424001-11 PERPENDICULAR CURB RAMPS FOR SIDEWALKS
- 424026-03 ENTRANCE / ALLEY PEDESTRIAN CROSSINGS
- 606001-07 CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER



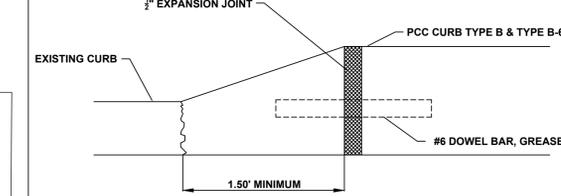
TEMPORARY WATER MAIN TRENCH



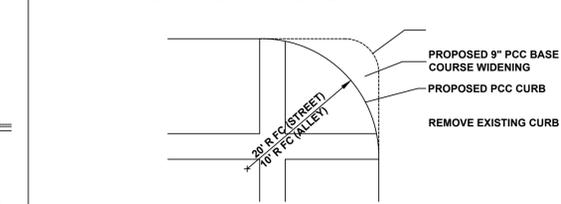
FRAME AND GRATE ADJUSTMENT DETAIL (MH, CB, IN, VV)



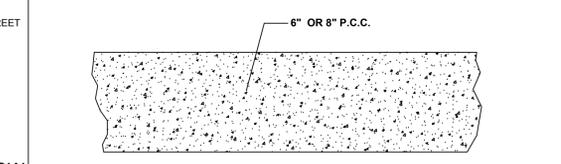
SECTION FOR CURB TRANSITION DETAIL



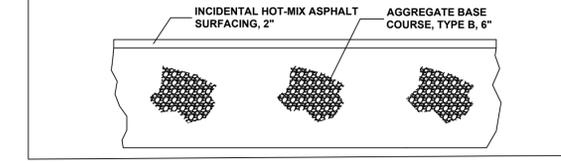
PLAN FOR INCREASING CURB RADIUS DETAIL



SECTION CONCRETE DRIVEWAY PAVEMENT DETAIL



SECTION HOT-MIX ASPHALT DRIVEWAY PAVEMENT DETAIL



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1		
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2025 WATER MAIN IMPROVEMENTS AND STREET RESURFACING PROJECT

SCALE
NTS

PROJECT NUMBER:
PW-WMRS-2502

BID NUMBER:
25-08

ISSUED FOR:
BID

DATE: 01/21/2025

DESIGNED BY: AA

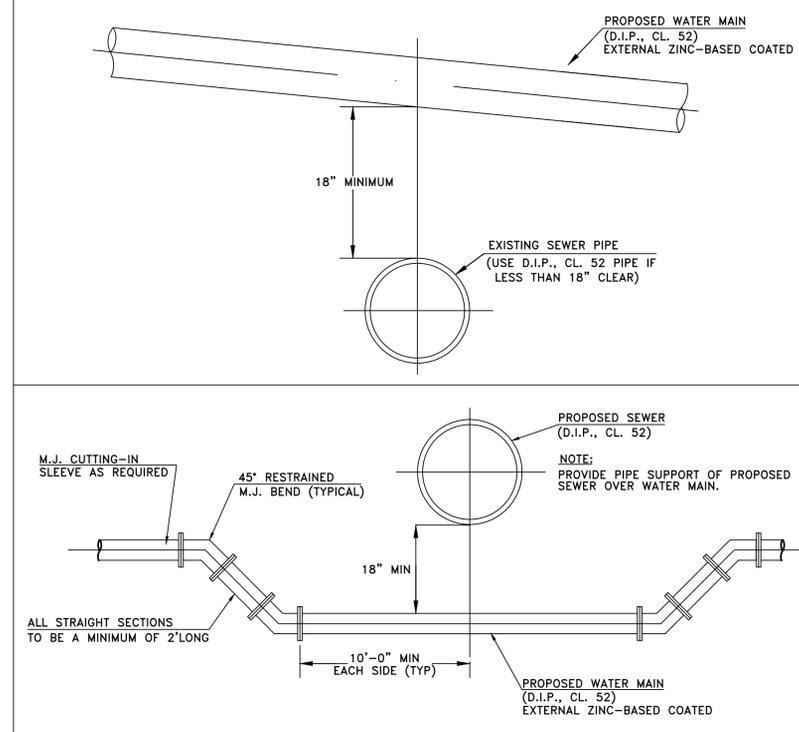
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CHECKED BY: BN

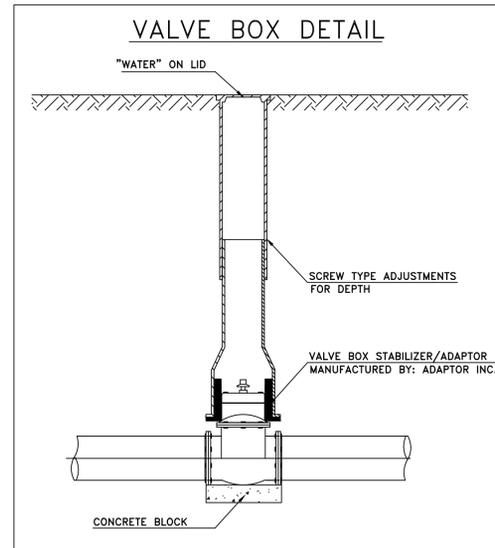
SHEET
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CITY OF EVANSTON TYPICAL DETAILS

WATER MAIN ADJUSTMENT DETAIL

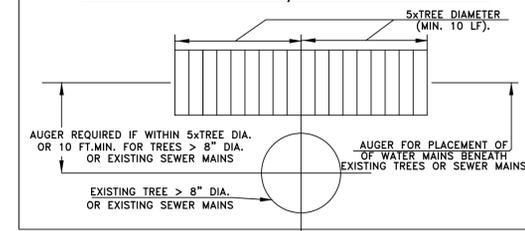


VALVE BOX DETAIL

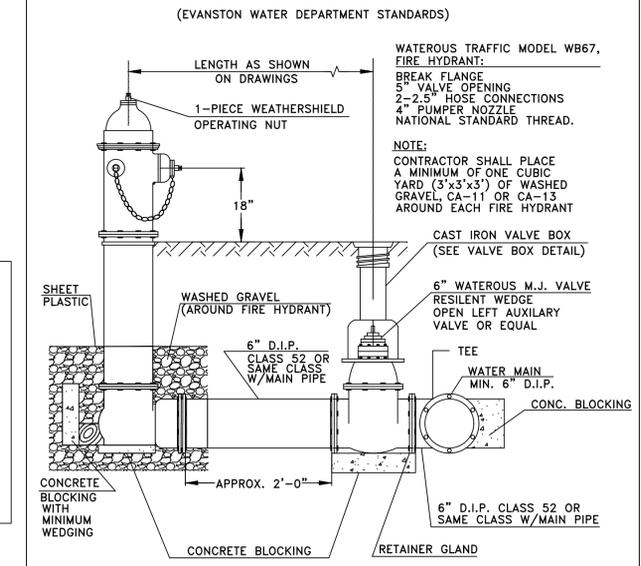


BEDDING PAYMENT SCHEDULE	
PIPE SIZE (INCH I. D.)	UNIT RATE PER LIN. FT. (TONS)
6	0.17
8	0.19
10	0.22
12	0.25
15	0.33
18	0.41
21	0.48
24	0.57
27	0.64
30	0.74
36	0.94
42	1.15
48	1.38
54	1.71
60	1.90

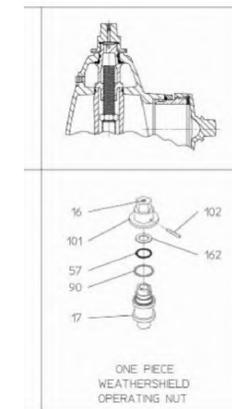
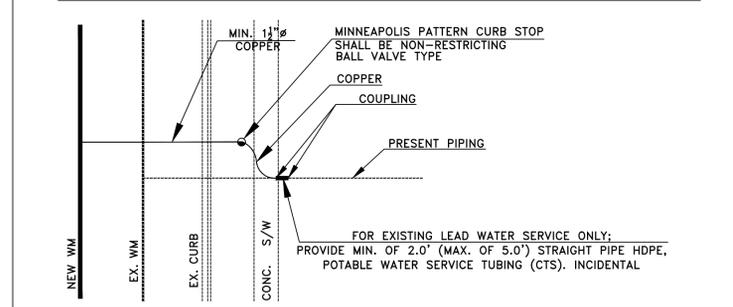
SHORT TUNNEL/AUGER DETAIL



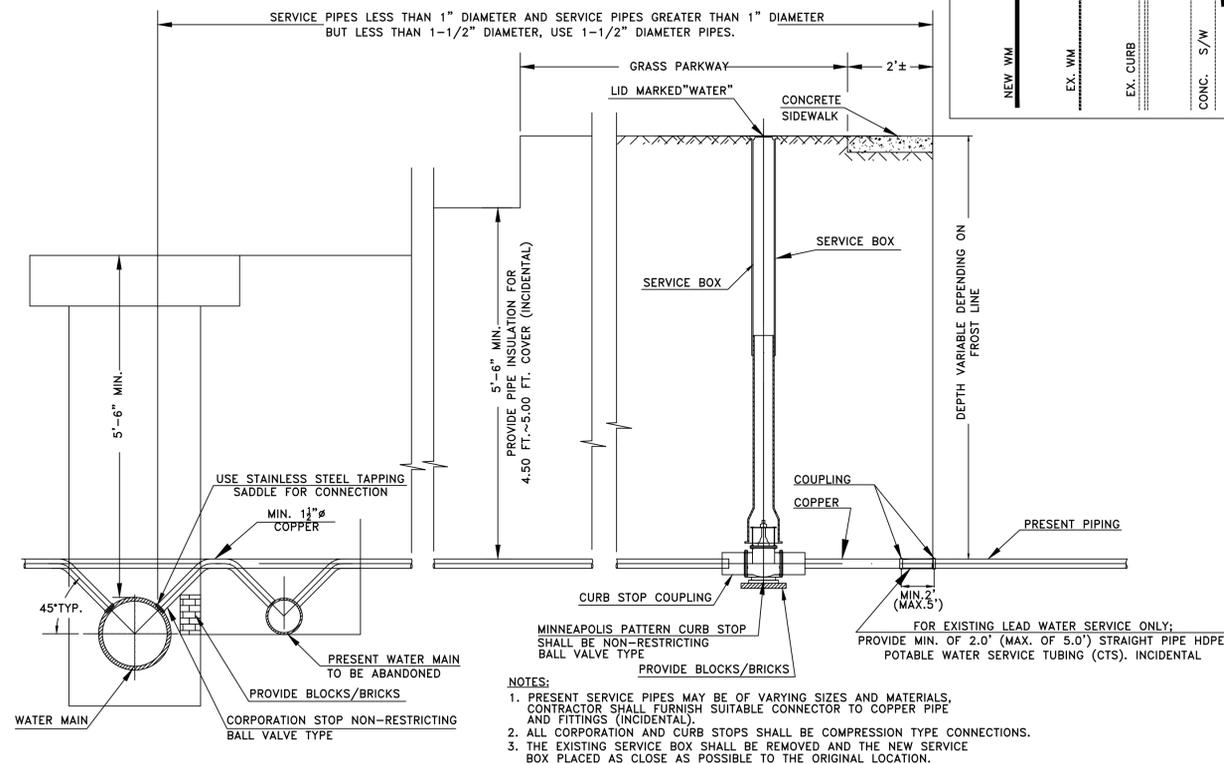
FIRE HYDRANT DETAIL



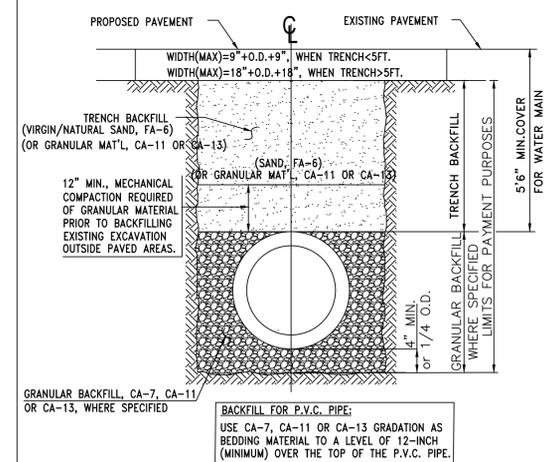
WATER SERVICE CONNECTION PLAN DETAIL



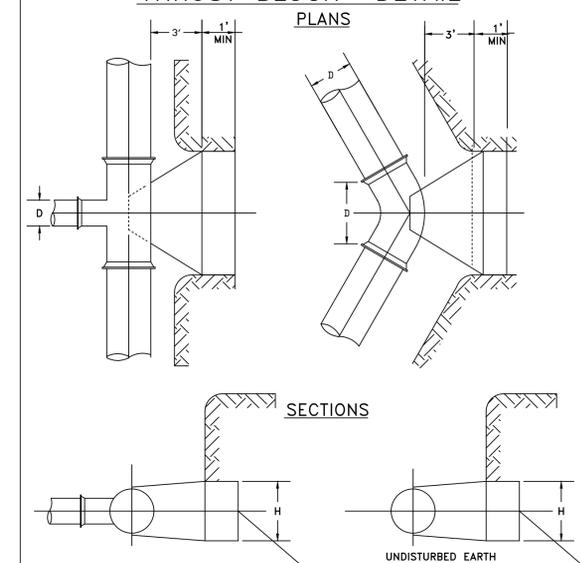
WATER SERVICE CONNECTION DETAIL



TRENCH BACKFILL & GRANULAR BACKFILL MATERIALS DETAIL



THRUST BLOCK DETAIL



TEE & PLUGS BENDS

PIPE SIZE "D"	6"		8"		10"		12"	
	L	H	L	H	L	H	L	H
TEE & PLUG	2'-0"	1'-6"	2'-0"	2'-0"	3'-0"	2'-0"	4'-6"	2'-0"
90° BEND	2'-0"	2'-0"	3'-0"	2'-0"	4'-6"	2'-0"	6'-0"	2'-0"
45° BEND	2'-0"	1'-0"	2'-0"	1'-6"	3'-0"	1'-6"	3'-6"	2'-0"
22-1/2° BEND	1'-0"	1'-0"	2'-0"	1'-6"	2'-0"	1'-6"	3'-0"	1'-6"
11-1/4° BEND	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-6"	1'-0"

REVISION			
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2025 WATER MAIN IMPROVEMENTS AND STREET RESURFACING PROJECT

SCALE
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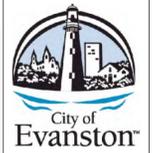
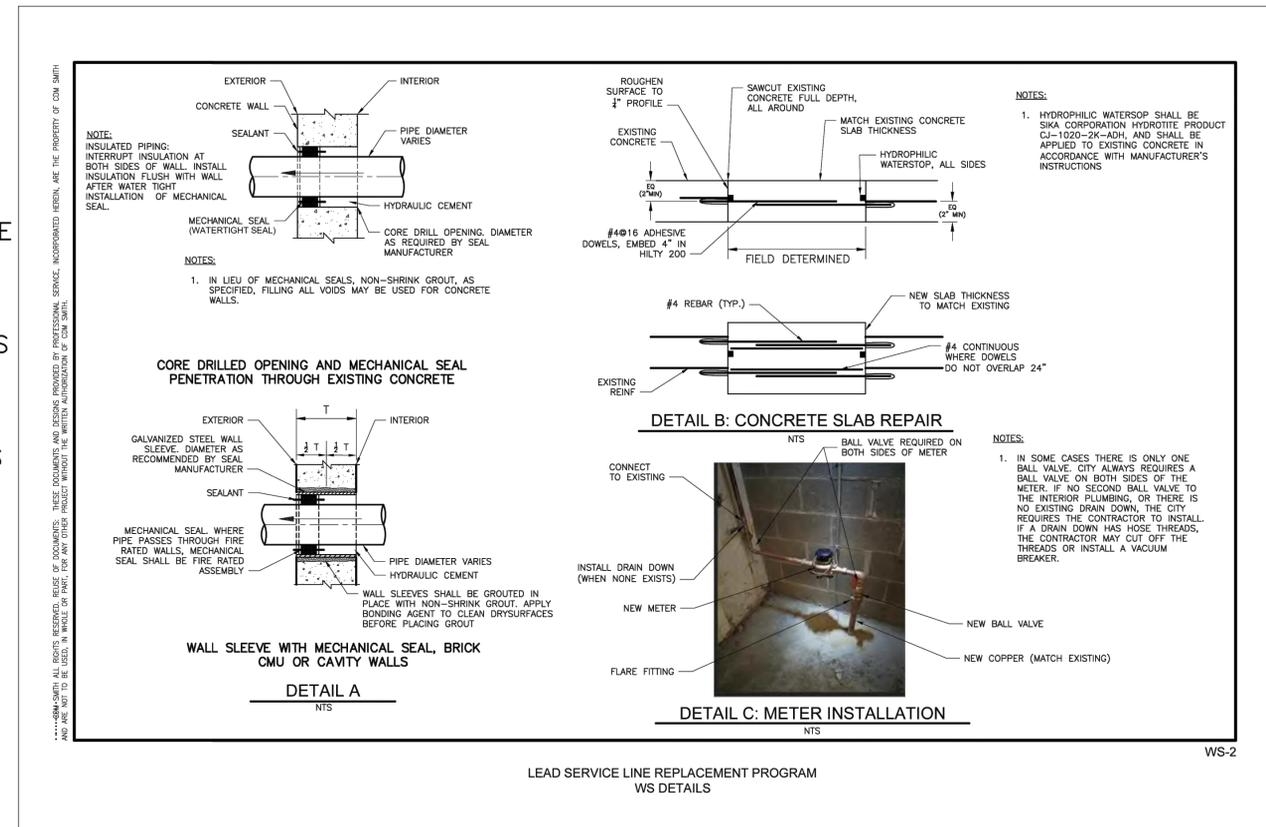
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GENERAL WATER SERVICE REPLACEMENT NOTES:

1. CONTRACTOR SHALL COORDINATE ALL SERVICE LINE REPLACEMENT ACTIVITIES WITH THE ENGINEER AND PROPERTY OWNER PRIOR TO COMMENCING SERVICE LINE REPLACEMENT WORK. CONTRACTOR MAY ONLY WORK ON PRIVATE PROPERTY WHERE A SIGNED RIGHT OF ENTRY IS ON FILE FROM THE PROPERTY OWNER. CONTRACTOR MUST OBTAIN EXECUTED PROPERTY OWNER AGREEMENT FORM FOR PERMISSION TO WORK ON PRIVATE PROPERTY BEFORE COMMENCING ANY CONSTRUCTION WORK.
2. THE DETAILS PRESENTED HEREIN REPRESENT TYPICAL CONDITIONS AND WATER SERVICE CONNECTION REPLACEMENT. EACH LOCATION WILL VARY.
3. CONTRACTOR SHALL RESTORE ALL SURFACE FEATURES AND LANDSCAPING EQUAL TO OR BETTER THAN EXISTING CONDITIONS FOLLOWING COMPLETION OF THE WORK.
4. EXISTING WATER SERVICE (WS) AND SEWER DRAIN (SD) MAY BE LOCATED IN CLOSE PROXIMITY AND/OR THE SAME TRENCH. CONTRACTOR SHALL MEET THE REQUIREMENTS OF THE STATE OF ILLINOIS PLUMBING CODE WHEN REPLACING WATER SERVICE CONSIDERING THE LOCATION OF THE EXISTING SEWER SERVICE. CONTRACTOR DOES NOT NEED TO CONSIDER SERVICES ON THE OPPOSITE SIDE OF THE STREET.
5. THE LOCATION OF WATER SERVICE ALIGNMENT SHALL BE DETERMINED BY THE CONTRACTOR'S LICENSED PLUMBER. ALL WORK ON THE WATER SERVICE SHALL BE PERFORMED BY THE CONTRACTOR'S LICENSED PLUMBER.
6. WHEN PERFORMING WORK INSIDE A RESIDENCE, CONTRACTOR SHALL TAKE ALL PRECAUTIONS TO MINIMIZE DEBRIS IN THE IMMEDIATE WORK AREA AS AGREED TO WITH THE PROPERTY OWNER.
7. IN THE EVENT CONTRACTOR IS REQUIRED TO DISTURB EXISTING CONCRETE, CONTRACTOR SHALL TAKE PRECAUTIONS NECESSARY TO CONTROL AND MINIMIZE CONCRETE DUST.
8. WHEN THE CONTRACTOR DETERMINES THAT TRENCHLESS INSTALLATION IS NOT FEASIBLE, CONTRACTOR SHALL SEEK ENGINEER APPROVAL FOR OPEN CUT INSTALLATION, OR A COMBINATION OF OPEN CUT AND TRENCHLESS METHODS.
9. CONTRACTOR SHALL NOT INSTALL ANY INTERMEDIATE FITTINGS OR COUPLINGS OTHER THAN THOSE SHOWN IN THE CONTRACT DOCUMENTS UNLESS APPROVED BY ENGINEER.
10. CONTRACTOR SHALL REPAIR THE CONCRETE FLOOR OR WALL, BUT WILL NOT RESTORE FINISHED SURFACES SUCH AS DRYWALL, RE-TILE, OR PERFORM OTHER FINAL FINISHED RESTORATION. SHOULD TOILETS, HOT WATER TANKS, OR OTHER INTERIOR UTILITY FEATURES BE REMOVED TO PERFORM THE WORK, CONTRACTOR SHALL REINSTALL THOSE ITEMS FOLLOWING COMPLETION OF THE WORK.
11. CONTRACTOR SHALL CHECK ALL FIXTURES FOR WATER PRESSURE AND TEMPERATURE BEFORE AND AFTER WATER SERVICE WORK TO ENSURE FUNCTIONALITY IS RESTORED TO PRECONSTRUCTION CONDITIONS. THIS WORK WILL NOT BE PAID FOR SEPARATELY.

GENERAL WATER SERVICE REPLACEMENT NOTES
Lead Service Line Replacement Program

WS-0



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2025 WATER MAIN IMPROVEMENTS
AND STREET RESURFACING PROJECT
LEAD SERVICE LINE REPLACEMENT PROGRAM

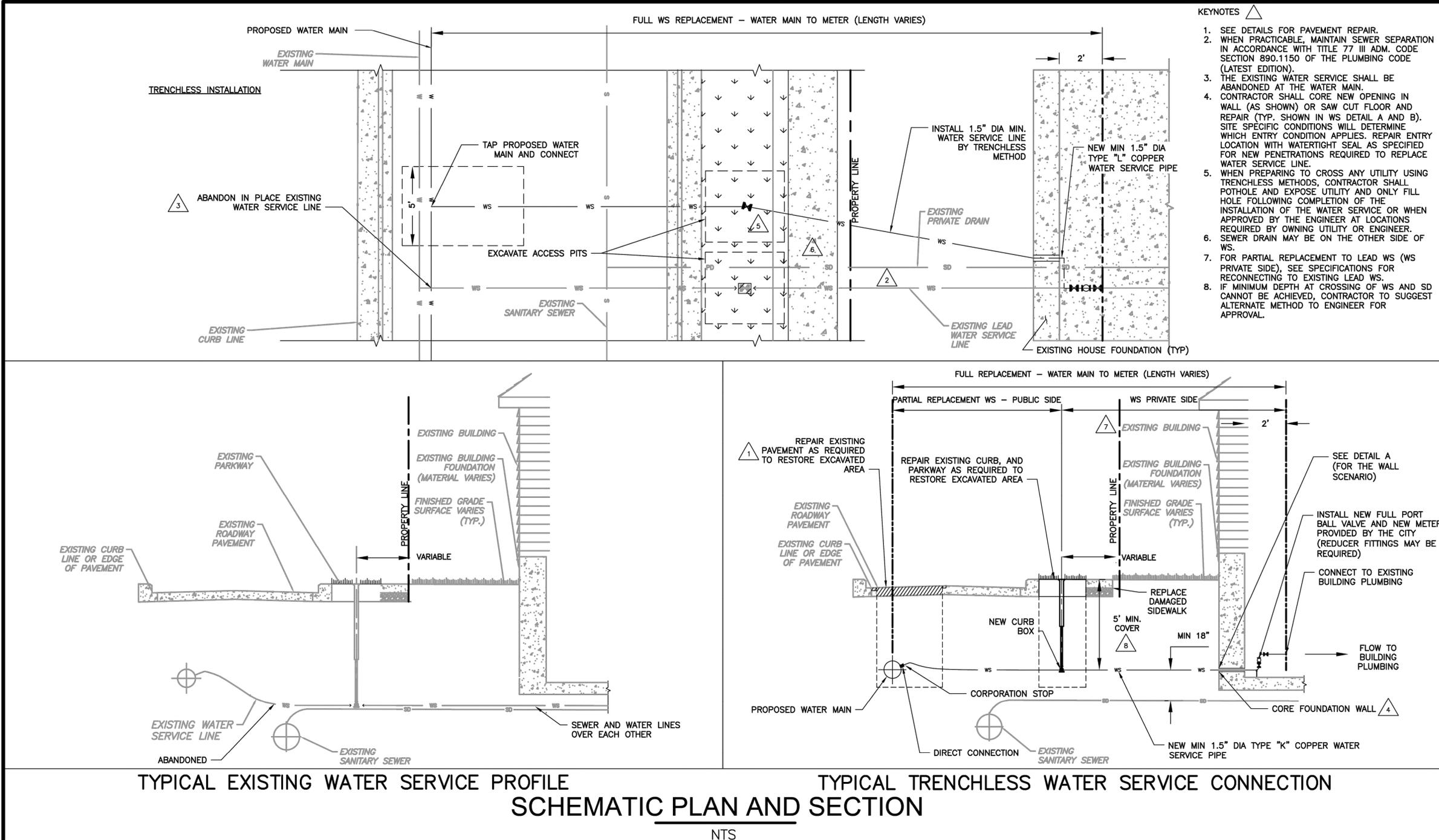
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DATE:	01/21/2025
DESIGNED BY:	AA
DRAWN BY:	AA, BN
CHECKED BY:	BN
SHEET	30 OF 33

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**2025 WATER MAIN IMPROVEMENTS
AND STREET RESURFACING PROJECT
LEAD SERVICE LINE REPLACEMENT PROGRAM**

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- KEYNOTES** △
- SEE DETAILS FOR PAVEMENT REPAIR.
 - WHEN PRACTICABLE, MAINTAIN SEWER SEPARATION IN ACCORDANCE WITH TITLE 77 III ADM. CODE SECTION 890.1150 OF THE PLUMBING CODE (LATEST EDITION).
 - THE EXISTING WATER SERVICE SHALL BE ABANDONED AT THE WATER MAIN.
 - CONTRACTOR SHALL CORE NEW OPENING IN WALL (AS SHOWN) OR SAW CUT FLOOR AND REPAIR (TYP. SHOWN IN WS DETAIL A AND B). SITE SPECIFIC CONDITIONS WILL DETERMINE WHICH ENTRY CONDITION APPLIES. REPAIR ENTRY LOCATION WITH WATERTIGHT SEAL AS SPECIFIED FOR NEW PENETRATIONS REQUIRED TO REPLACE WATER SERVICE LINE.
 - WHEN PREPARING TO CROSS ANY UTILITY USING TRENCHLESS METHODS, CONTRACTOR SHALL POTHOLE AND EXPOSE UTILITY AND ONLY FILL HOLE FOLLOWING COMPLETION OF THE INSTALLATION OF THE WATER SERVICE OR WHEN APPROVED BY THE ENGINEER AT LOCATIONS REQUIRED BY OWNING UTILITY OR ENGINEER.
 - SEWER DRAIN MAY BE ON THE OTHER SIDE OF WS.
 - FOR PARTIAL REPLACEMENT TO LEAD WS (WS PRIVATE SIDE) SEE SPECIFICATIONS FOR RECONNECTING TO EXISTING LEAD WS.
 - IF MINIMUM DEPTH AT CROSSING OF WS AND SD CANNOT BE ACHIEVED, CONTRACTOR TO SUGGEST ALTERNATE METHOD TO ENGINEER FOR APPROVAL.

TYPICAL EXISTING WATER SERVICE PROFILE **TYPICAL TRENCHLESS WATER SERVICE CONNECTION**
SCHEMATIC PLAN AND SECTION

NTS

STANDARD DETAIL

Lead Service Line Replacement Program with Water / Sewer Separation Provided by Relocating Water Service 10-ft From All Sewer Drains, When Practicable
 Service Line Replacement: Trenchless WS Replacement

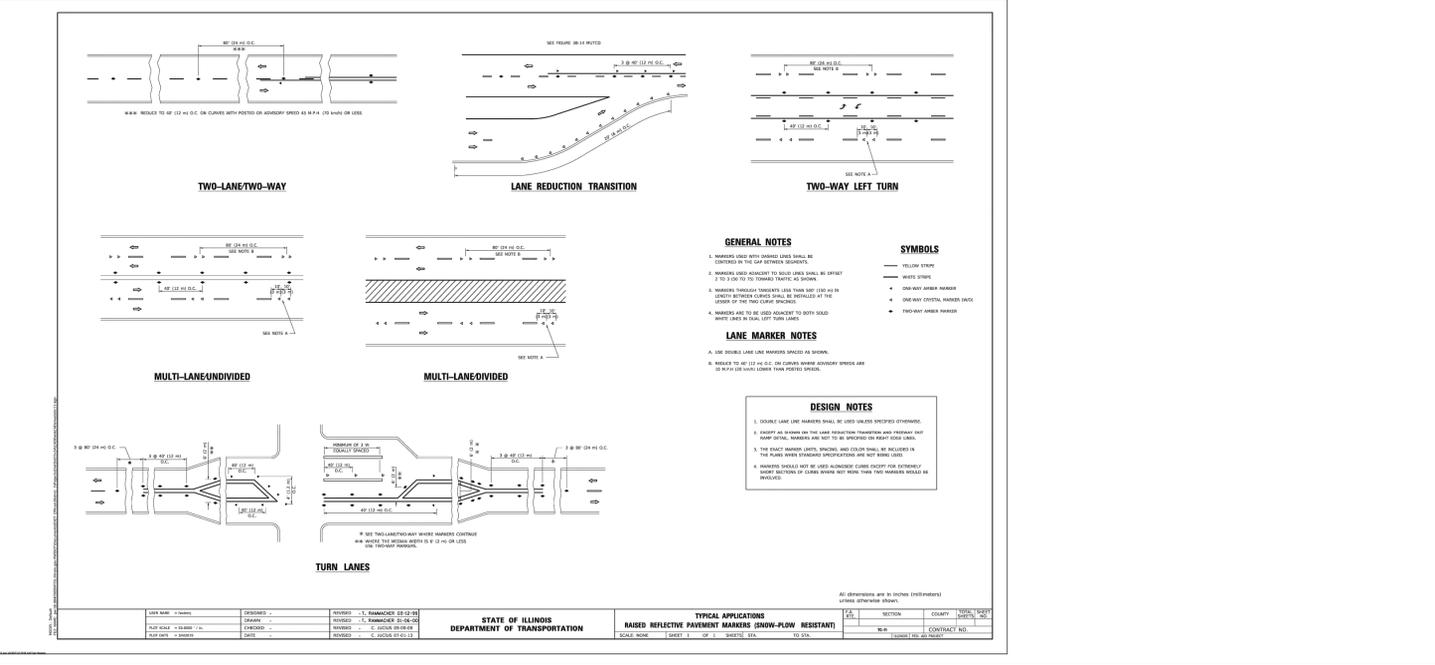
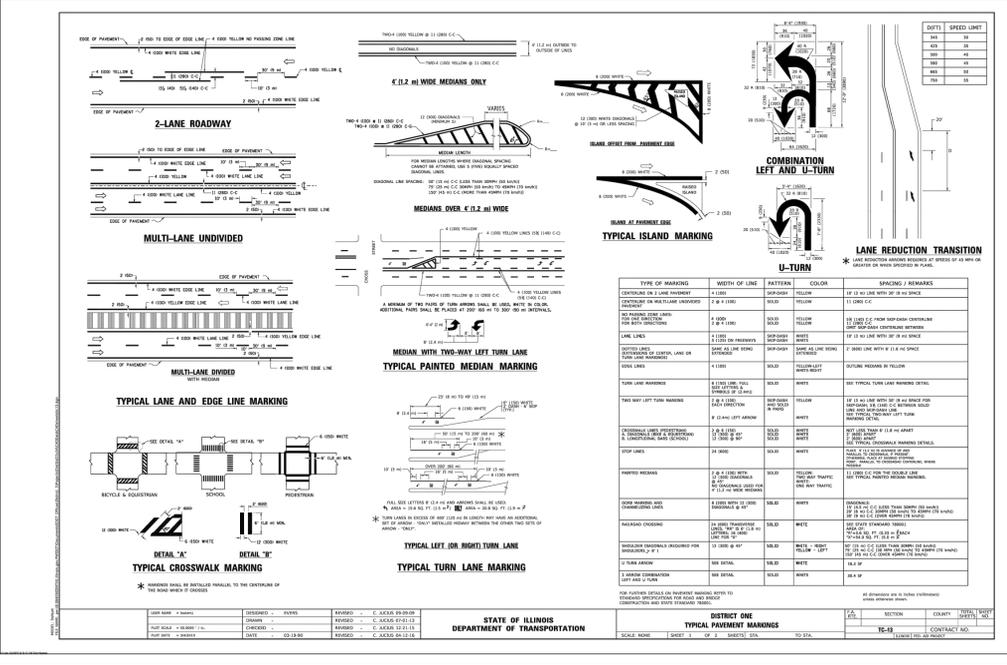
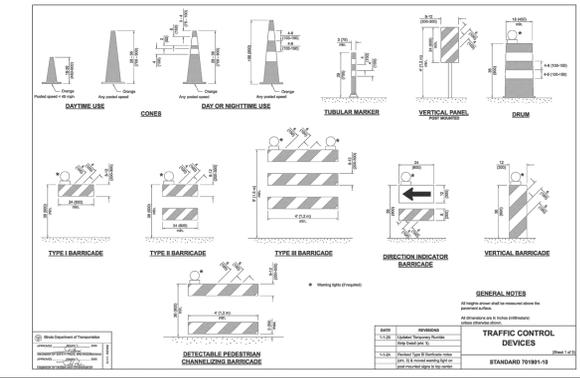
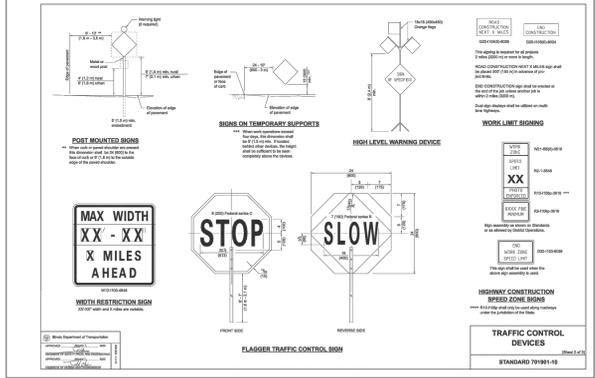
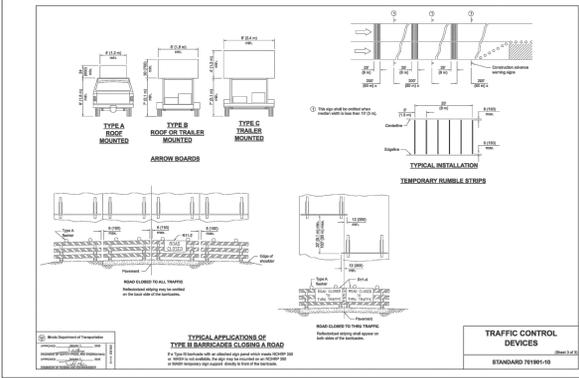
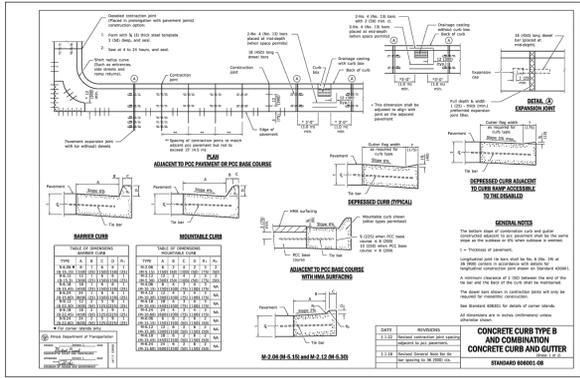
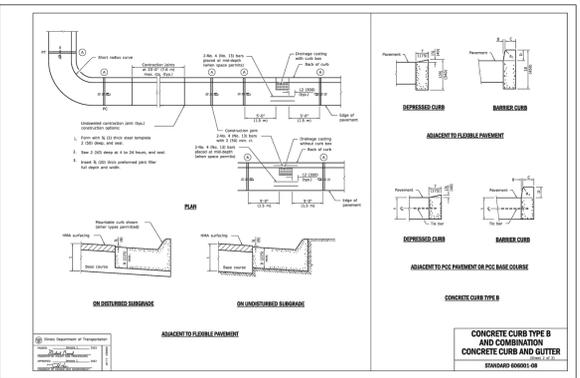
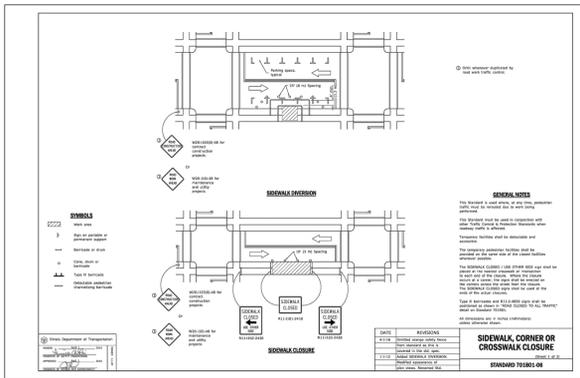
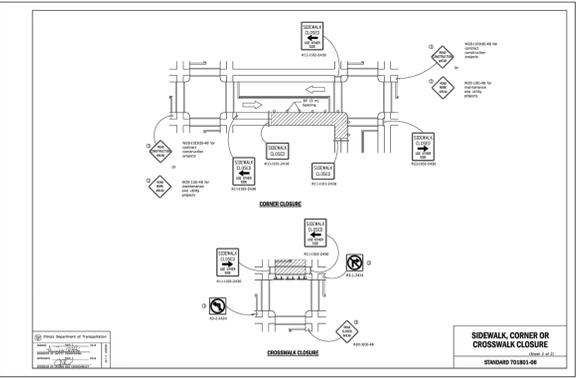
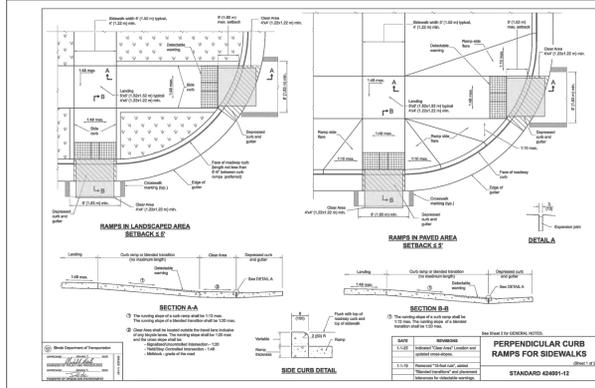
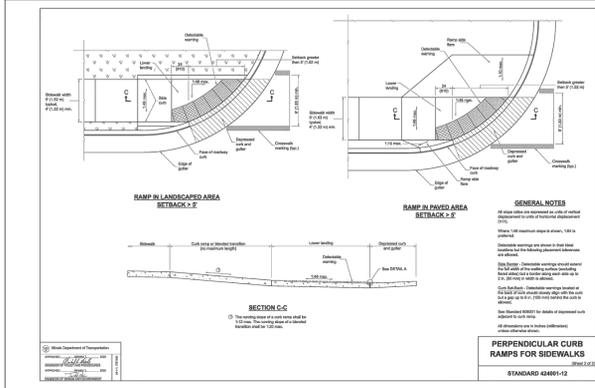
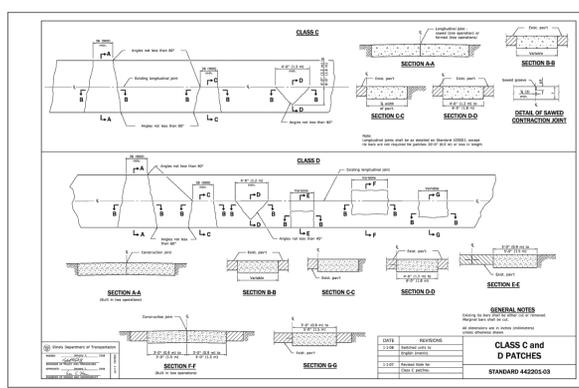
WS-1

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DATE

2025 WATER MAIN IMPROVEMENTS AND STREET RESURFACING PROJECT
IDOT STANDARDS

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