CITY OF JOLIET
WILL COUNTY, ILLINOIS

2022

ROADWAY IMPROVEMENTS

DEKALB STREET (Pleasant St. - Center St.)

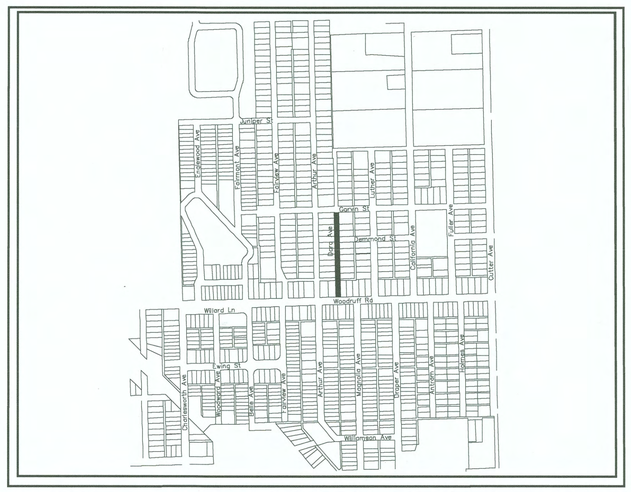
DORA AVENUE (Woodruff Rd. - Garvin St.)

MFT SEC: 22-00549-00-FP

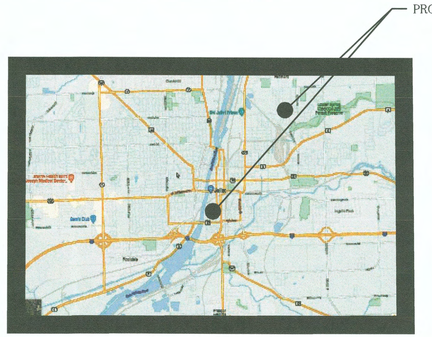
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JOLIET TOWNSHIP, E 1/2, NW 1/4, SECTION 16



JOLIET TOWNSHIP, E 1/2, NW 1/4, SECTION 2



TRAFFIC DATA
DEKALB STREET 2022 ADT = 245
DORA AVENUE 2022 ADT = 92
SPEED LIMIT = 25 MPH

WARNING !!!
CALL JULIE TOLLFREE 1-800-892-0123
CALL BEFORE YOU DIG
CITY OF JOLIET UTILITY INFORMATION 724–4220

MILOS TODOROVIC 062-073741 REGISTERED PROFESSIONAL ENGINEER OF ILLINOIS

Date Sealed 7/15/22
Date Expired 11/23

DESIGNED & PREPARED BY:
DAVID D. ORTIZ
CIVIL ENGINEER I

APPROVED BY:
CITY OF JOLIET
DEPARTMENT OF PUBLIC WORKS
MILOS TODOROVIC, P.E.
DEPUTY DIRECTOR OF PUBLIC WORKS

DATE: *JULY 2022*

CITY OF JOLIET
DEPARTMENT OF PUBLIC WORKS
150 W. JEFFERSON STREET
JOLIET, ILLINOIS 60431
(815)–724–4200

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SUMMARY OF QUANTITIES

ITEM NO.	ITEM DESCRIPTION	DORA	DEKALB	QUANTITIES	UNITS
	STREET LENGTH:	814	274		LIN FT
NO. 1	TREE ROOT SAWING	9	4	13	EACH
NO. 2	PARKWAY EXCAVATION	1750	1200	2950	SQ YD
NO. 3	ROADWAY EXCAVATION	672	396	1068	CU YD
NO. 4	ROCK EXCAVATION		120	120	CU YD
NO. 5	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	160		160	CU YD
NO. 6	REMOVAL AND DISPOSAL OF CONTAMINATED MATERIAL	25		25	CU YD
NO. 7	TRENCH BACKFILL	100	10	110	CU YD
NO. 8	AGGREGATE BASE COURSE, TY B, 8"	1991	1035	3026	SQ YD
NO. 9	SUB-BASE GRANULAR MATERIAL, TY C, 3"	325	235	560	SQ YD
NO. 10	PREPARATION OF BASE	1628	880	2508	SQ YD
NO. 11	AGGREGATE BASE REPAIR	50	50	100	TON
NO. 12	POROUS GRANULAR EMBANKMENT (SPECIAL)	160		160	CU YD
NO. 13	STORM SEWER, TY 1, RCCP, CLASS IV 12" DIA	140	40	180	LIN FT
NO. 14	STORM SEWER, DIP CLASS 52 , 12" DIA	90		90	LIN FT
NO. 15	ROCK EXCAVATION FOR STRUCTURES		20	20	CU YD
NO. 16	INLET, TY A W/ TY 11 F & G		1	1	EACH
NO. 17	INLET, TY A/ W TY 3 F&G		1	1	EACH
NO. 18	INLET, TY A/ W TY 9 F&G	1		1	EACH
NO. 19	CATCH BASIN, TY C W/ TY 11 F&G	1		1	EACH
NO. 20	CATCH BASIN, TY C W/ TY 11 F&G (SPEC)	1		1	EACH
NO. 21	MANHOLE, TY A 4' DIA	2		2	EACH
NO. 22	FRAME & LIDS , TY 1 CL		1	1	EACH
NO. 23	CATCH BASIN TO BE RELOCATED	1		1	EACH
NO. 24	COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.12	1700	620	2320	LIN FT
NO. 25	COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.18		25	25	LIN FT
NO. 26	COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.24		30	30	LIN FT
NO. 27	BARRIER CURB	120	25	145	LIN FT
NO. 28	CURB & GUTTER REMOVAL	50	100	150	LIN FT
NO. 29	SIDEWALK REMOVAL	700	900	1600	SQ FT
NO. 30	LATE SIDEWALK REMOVAL	100		100	SQ FT
NO. 31	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6"	95	60	155	SQ YD
NO. 32	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8"	0	50	50	SQ YD
NO. 33	PORTLAND CEMENT CONCRETE SIDEWALK ,5"	800	990	1790	SQ FT
NO. 34	PORTLAND CEMENT CONCRETE PAVEMENT REMOVAL & REPLACEMENT, 10"		22	22	SQ YD
NO. 35	HOT MIX ASPHALT DRIVEWAY PAVEMENT, 3"	150	10	160	SQ YD
NO. 36	HOT MIX ASPHALT REMOVAL & REPLACEMENT, 4" (1.5" SURF. & 2.5" BINDER)		10	10	SQ YD
NO. 37	HOT MIX ASPHALT REMOVAL & REPLACEMENT, 6" (1.5" SURF. & 4.5" BINDER)	20		20	SQ YD
NO. 38	FURNISHING AND PLACING TOPSOIL, 3"		1100	1100	SQ YD
NO. 39	SODDING		1100	1100	SQ YD
NO. 40	TEMPORARY DRIVEWAY ACCESS	20	10	30	TON
NO. 41	TRAFFIC CONTROL AND PROTECTION	0.5	0.5	1	L SUM
NO. 42	SAWCUT ASPHALT SURFACE	170	100	270	LIN FT
NO. 43	SAWCUT CONCRETE SURFACE	50	100	150	LIN FT
NO. 44	PROTECTIVE COAT	600	325	925	SQ YD
NO. 45	DETECTABLE WARNING		30	30	SQ FT
NO. 46	CONCRETE DRIVEWAY PAVEMENT REMOVAL	10	70	80	SQ YD
NO. 47	MANHOLE TO BE RECONSTRUCTED	4	0	4	EACH
NO. 48	EROSION CONTROL	0.5	0.5	1	L SUM
NO. 49	HARDWOOD MULCH	9	4	13	EACH
NO. 50	SLOPEWALL, 4"	30		30	SQ FT
NO. 51	REMOVE & REPLACE HANDHOLE		1	1	EACH
NO. 52	MAILBOX PROTECTION/ RELOCATION	4		4	EACH
NO. 53	RELOCATE FIRE HYDRANT WITH AUX VALVE	2		2	EACH
NO. 54	ADJ WATER SERVICE LINES	20		20	LIN FT
NO. 55	SAN SERVICE REPL CASE I	10		10	LIN FT
NO. 56	SAN SERVICE REPL CASE II	20		20	LIN FT
NO. 57	DOMESTIC WATER SERVICE BOX ADJ	7		7	EACH
NO. 58	DOMESTIC WATER SERVICE BOX RELOCATE	3		3	EACH
NO. 59	CATCH BASIN, TY C W/ TY 11 F&G (VANED)	2		2	EACH
NO. 60	REMOVE & RELAY STORM SEWER, 15"	34		34	LIN FT
NO. 61	INLET, TY A, W TY 11V F&G	1		1	EACH
NO. 62	SAWCUT	70		70	LIN FT

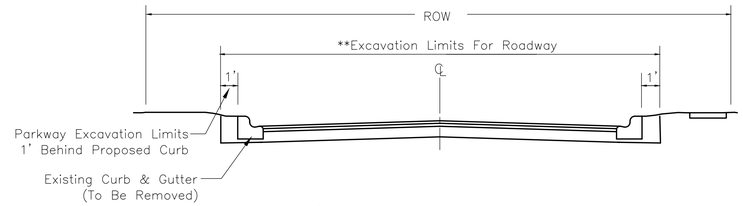
2022 ROADWAY IMPROVEMENTS
DEKALB STREET (Pleasant St. – Center St.)
DORA AVENUE (Woodruff Rd. – Garvin St.)
MFT SEC: 22-00549-00-FP

SCALE: NONE | DATE: JULY 2022 | SHEET 2 OF 11

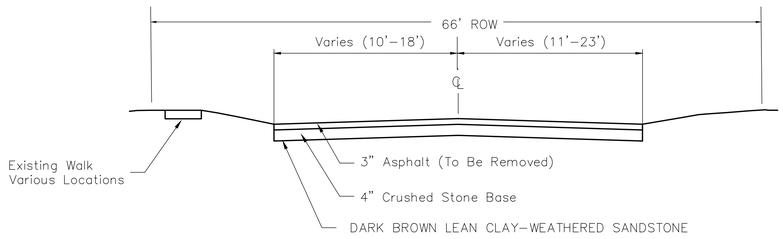
CHECKED BY: MT | DESIGNED BY: DDO | DRAWN BY: KLK

CITY OF JOLIET
DEPARTMENT OF PUBLIC WORKS
150 W. JEFFERSON STREET, JOLIET, ILLINOIS 60431
(815)-724-4200

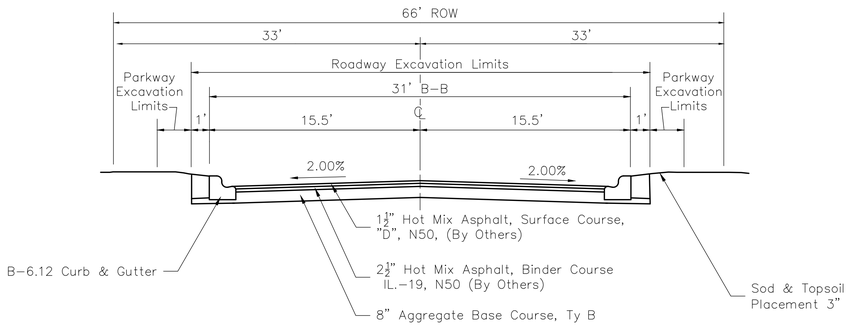
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ROADWAY/ PARKWAY EXCAVATION LIMITS
(FOR INFORMATION ONLY)



EXISTING SECTION
DEKALB STREET



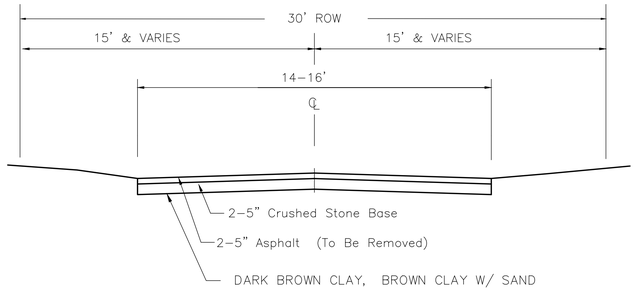
PROPOSED TYPICAL SECTION
DEKALB STREET

HOT-MIX ASPHALT MIXTURE REQUIREMENTS	
MIXTURE TYPE	**AIR VOIDS @ Ndes**
FLEXIBLE DEPTH PAVEMENT	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL-9.5mm); 1½"	4% @ 50 Gyr.
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50; 2½"	4% @ 50 Gyr.
DRIVEWAYS	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL-9.5mm)	4% @ 50 Gyr.
HMA REMOVAL & REPLACEMENT, 4"	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL-9.5MM); 1½"	4% @ 50 GYR.
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50; 2½"	4% @ 50 GYR.
HMA REMOVAL & REPLACEMENT, 6"	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL-9.5MM); 1½"	4% @ 50 GYR.
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50; 4½"	4% @ 50 GYR.

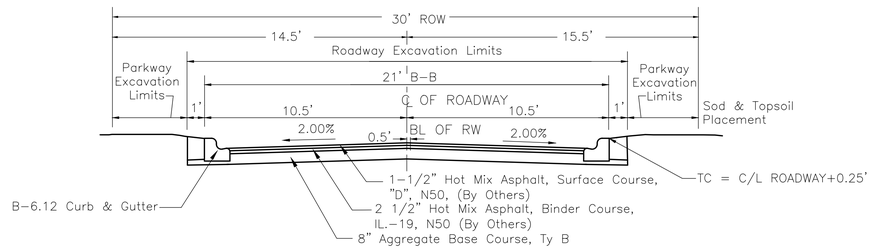
see 1 => THE WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ. YD/IN.

see 1 => THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE " SBS/SBR PG76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS. FOR "PERCENT OF RAP" SEE DISTRICT ONE SPECIAL PROVISIONS.

TRAFFIC DATA
DEKALB STREET 2022 ADT = 245
DORA AVENUE 2022 ADT = 92
SPEED LIMIT = 25 MPH



EXISTING SECTION
DORA AVENUE



PROPOSED TYPICAL SECTION
DORA AVENUE

2022 ROADWAY IMPROVEMENTS
DEKALB STREET (Pleasant St. – Center St.)
DORA AVENUE (Woodruff Rd. – Garvin St.)
MFT SEC: 22–00549–00–FP

SCALE: NONE
DATE: JULY 2022
SHEET 3 OF 11

CHECKED BY: MT
DESIGNED BY: DDO
DRAWN BY: KLK

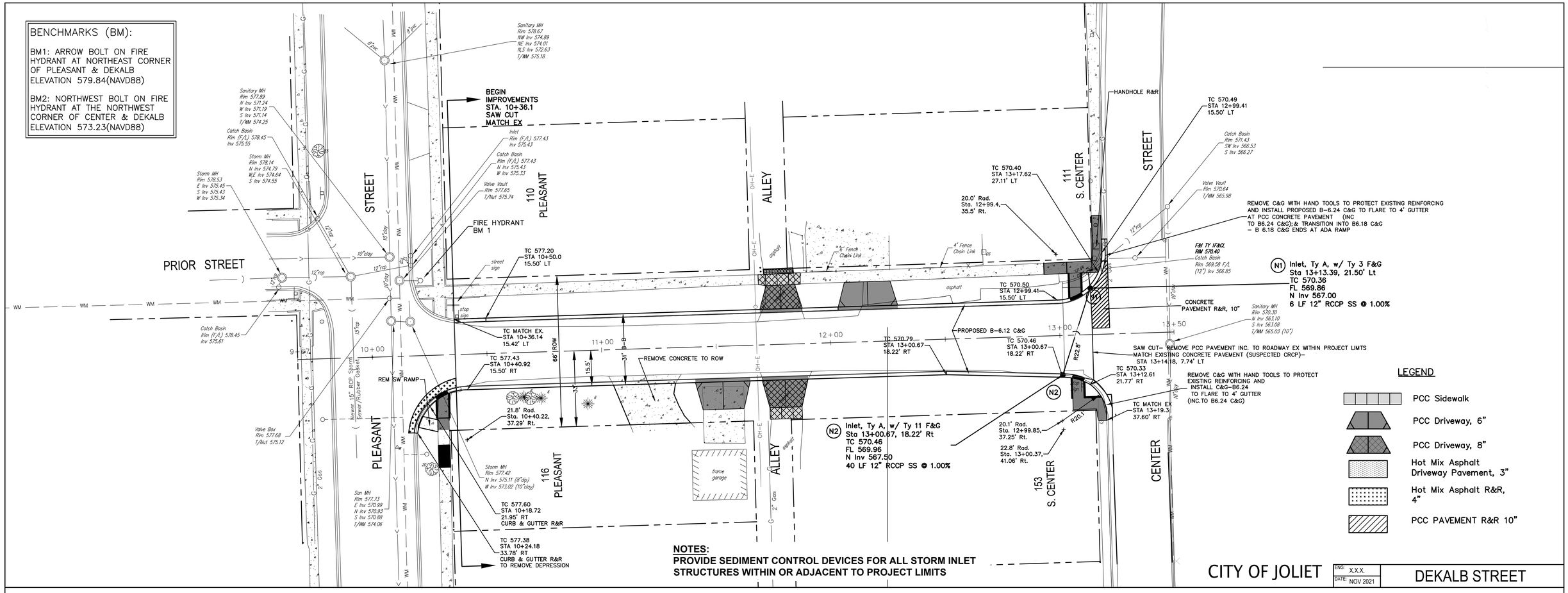
CITY OF JOLIET
DEPARTMENT OF PUBLIC WORKS
150 W. JEFFERSON STREET, JOLIET, ILLINOIS 60431
(815)–724–4200

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BENCHMARKS (BM):

BM1: ARROW BOLT ON FIRE HYDRANT AT NORTHEAST CORNER OF PLEASANT & DEKALB ELEVATION 579.84(NAVD88)

BM2: NORTHWEST BOLT ON FIRE HYDRANT AT THE NORTHWEST CORNER OF CENTER & DEKALB ELEVATION 573.23(NAVD88)

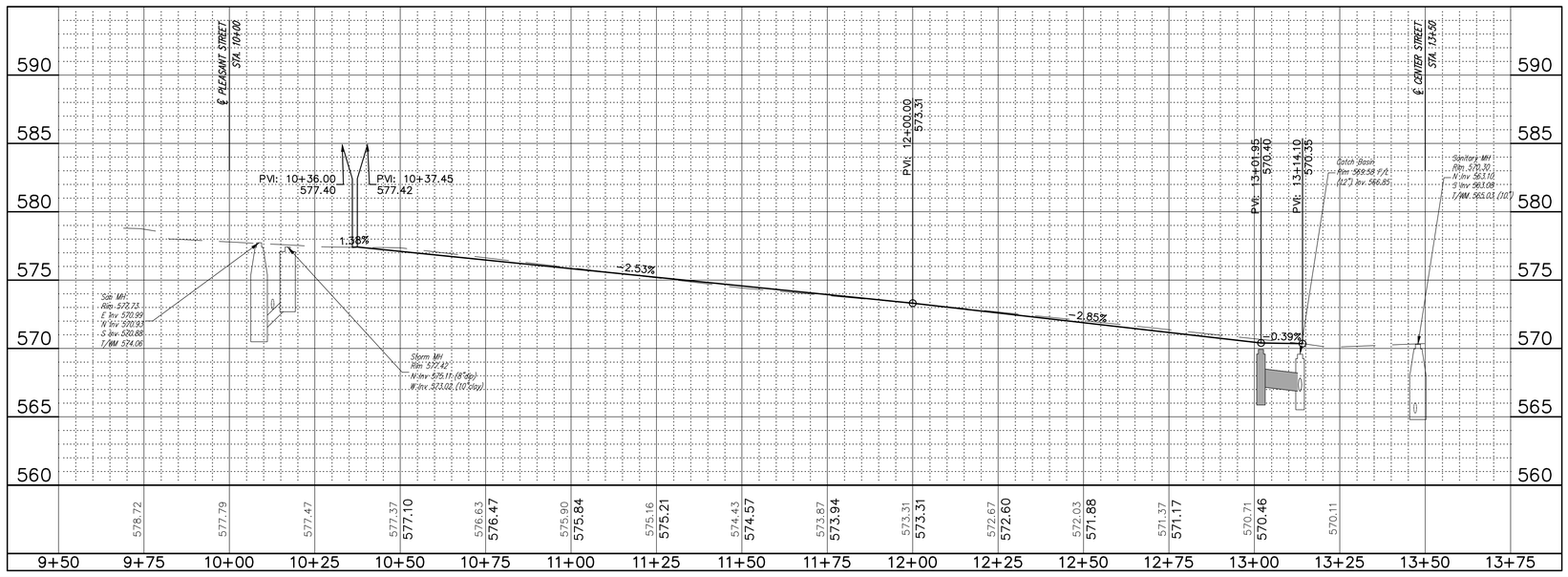


NOTES:
PROVIDE SEDIMENT CONTROL DEVICES FOR ALL STORM INLET STRUCTURES WITHIN OR ADJACENT TO PROJECT LIMITS

CITY OF JOLIET

ENG.	X.X.X.
DATE	NOV 2021

DEKALB STREET



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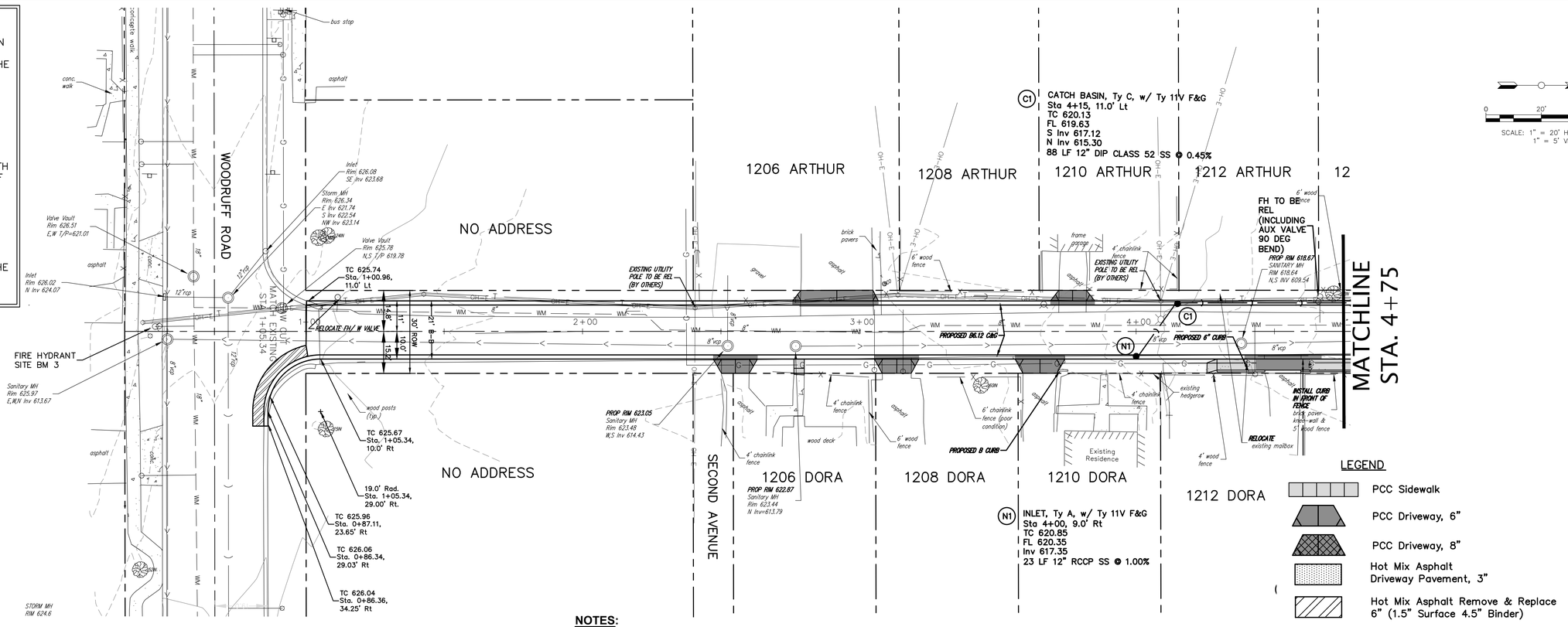
DISK SET ON TOP OF CONCRETE FOUNDATION OF THE FLAG POLE AT THE FORMER AMERICAN STEEL AND WIRE COMPANY, ON THE WEST SIDE OF COLLINS STREET BETWEEN FRANCIS STREET AND MEEKER AVENUE.
(NGS Designation W141)
ELEVATION 548.65 (NAVD 88)

SITE BENCHMARK 2:

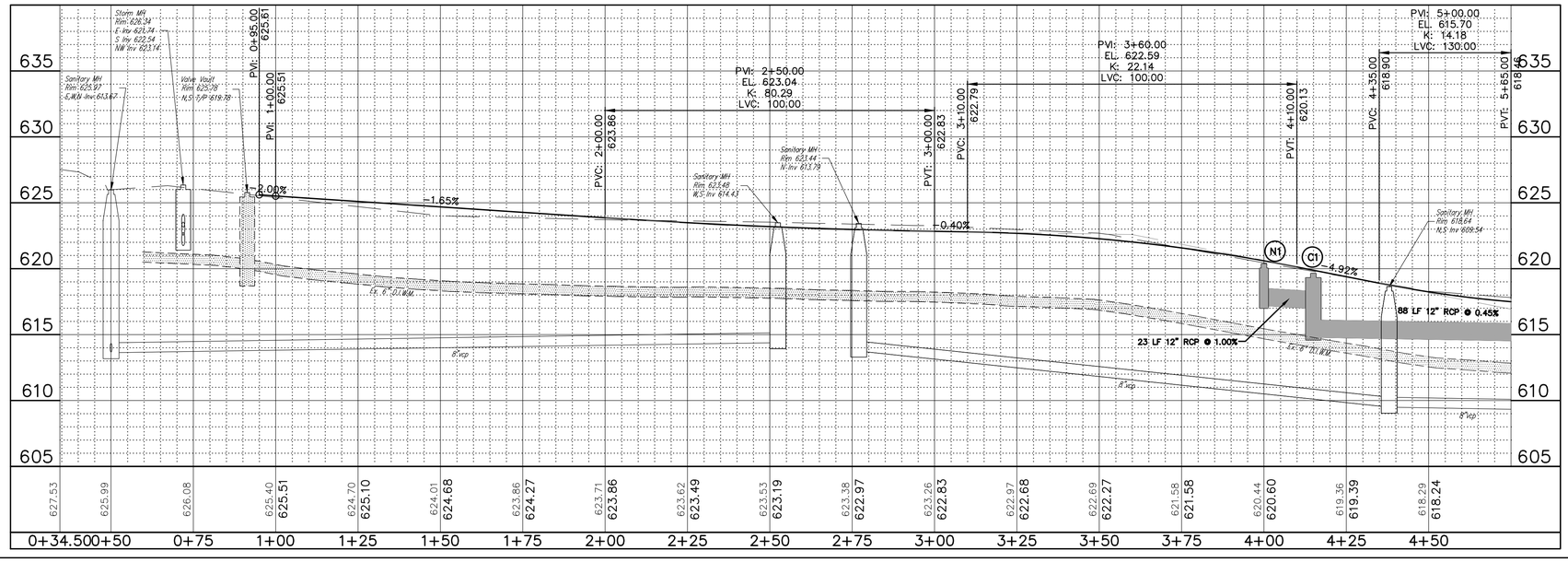
NORTHEAST BONNET BOLT OF HYDRANT SOUTH OF DEMMOND STREET ON THE WEST SIDE OF DORA AVENUE.
ELEVATION 619.78 (NAVD 88)

SITE BENCHMARK 3:

NORTHWEST BONNET BOLT OF HYDRANT ON THE SOUTH SIDE OF WOODRUFF ROAD AT THE SOUTH END OF DORA AVENUE.
ELEVATION 628.20 (NAVD 88)



NOTES:
PROVIDE SEDIMENT CONTROL DEVICES FOR ALL STORM INLET STRUCTURES WITHIN OR ADJACENT TO PROJECT LIMITS



CITY OF JOLIET | ENG: DDO | DATE: July 2022 | DORA AVENUE

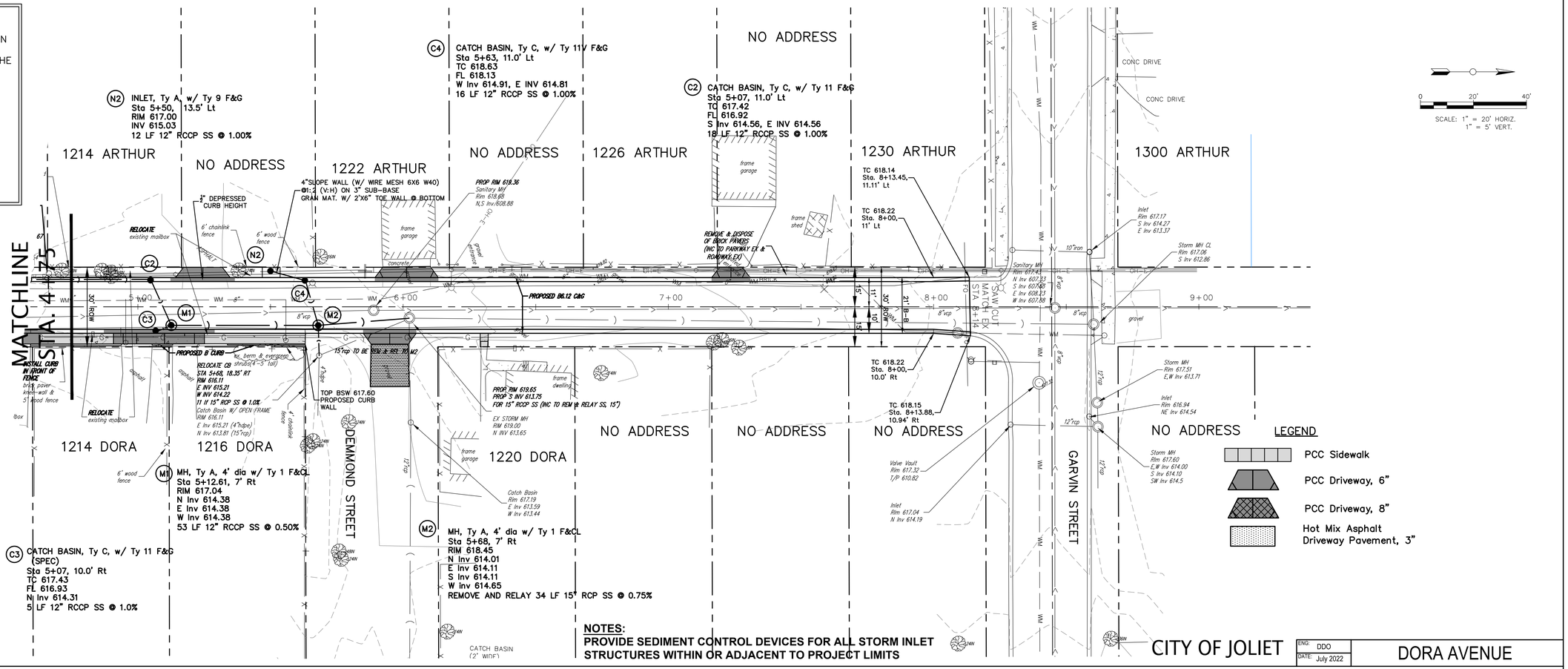
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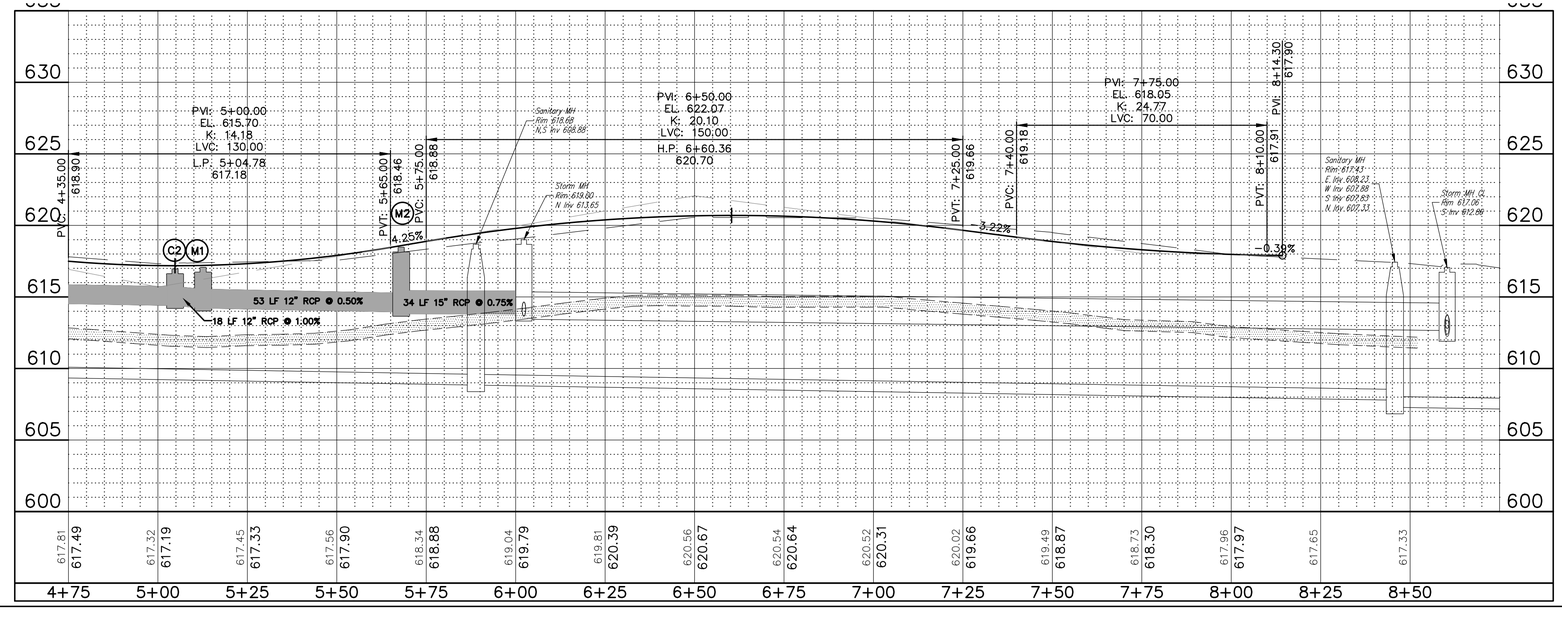
REFERENCE BENCHMARK:

DISK SET ON TOP OF CONCRETE FOUNDATION OF THE FLAG POLE AT THE FORMER AMERICAN STEEL AND WIRE COMPANY, ON THE WEST SIDE OF COLLINS STREET BETWEEN FRANCIS STREET AND MEEKER AVENUE.
(NGS Designation W141)
ELEVATION 548.65 (NAVD 88)

SITE BENCHMARK 1:

NORTHEAST BONNET BOLT OF HYDRANT AT THE SOUTHEAST CORNER OF DORA AVENUE AND GARVIN STREET.
ELEVATION 618.90 (NAVD 88)



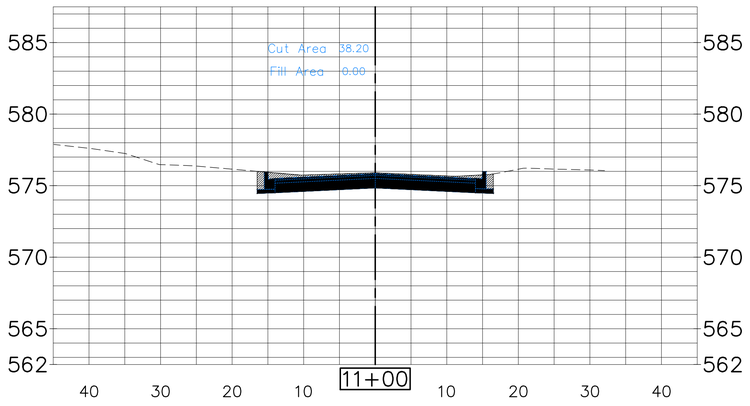


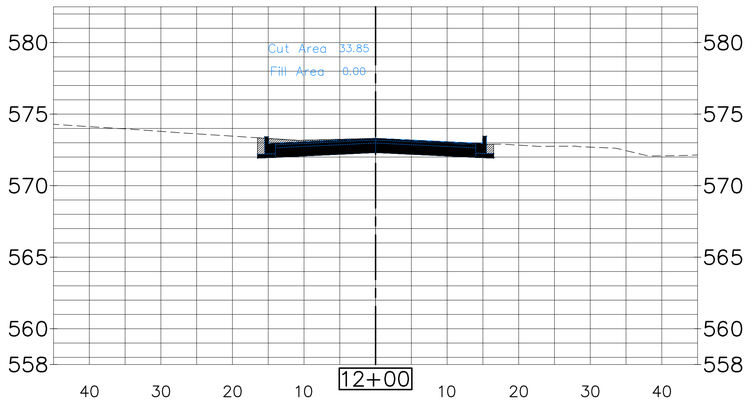
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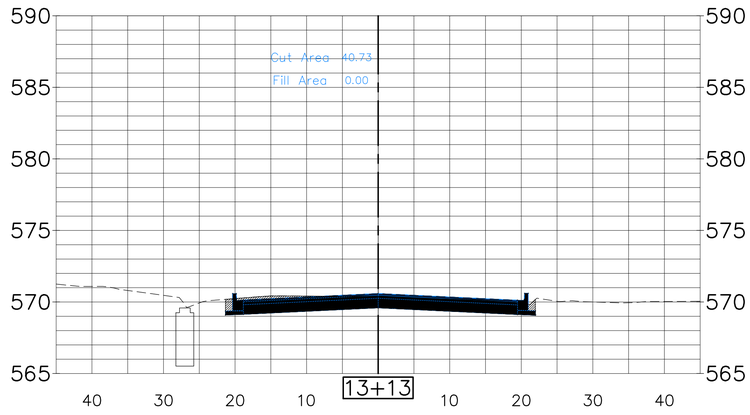
CITY OF JOLIET

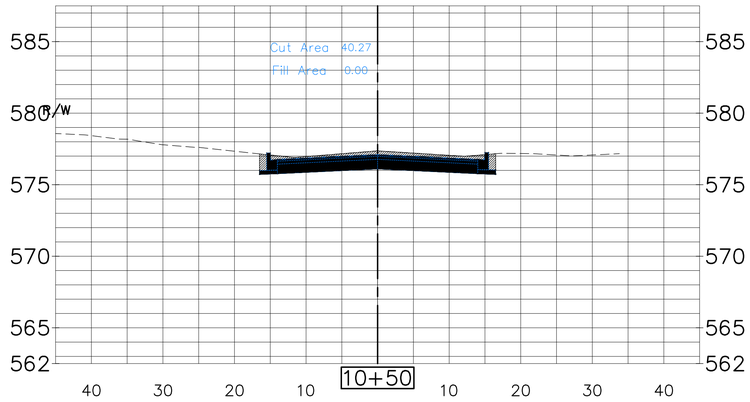
ENG: DDO	DORA AVENUE
DATE: July 2022	

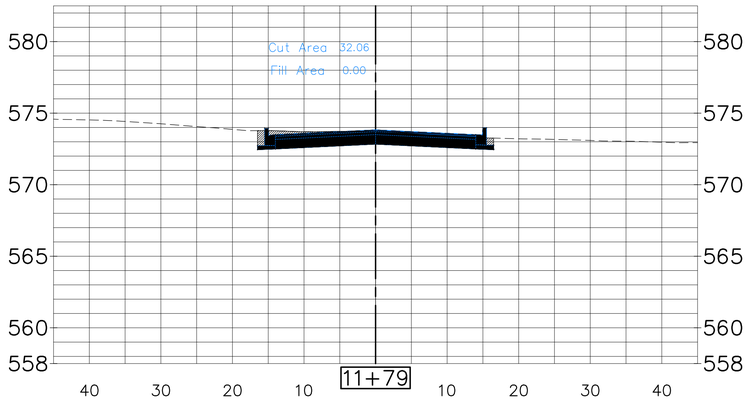
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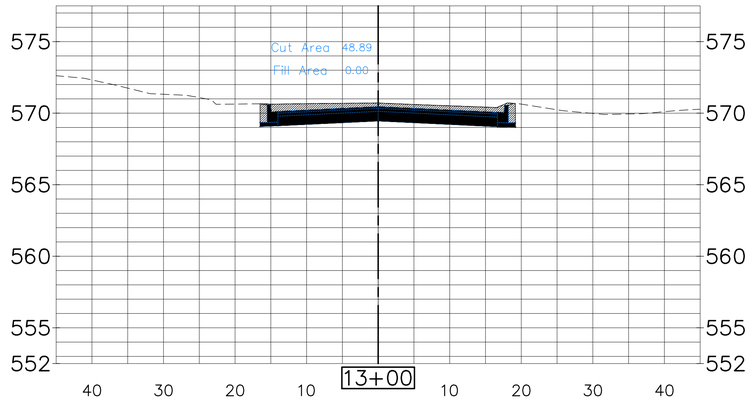


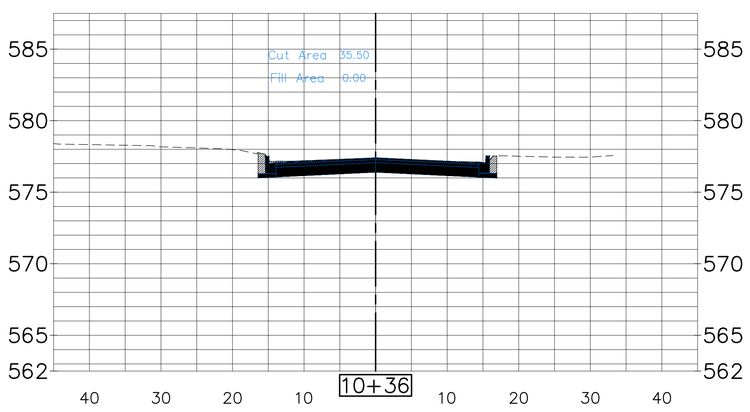


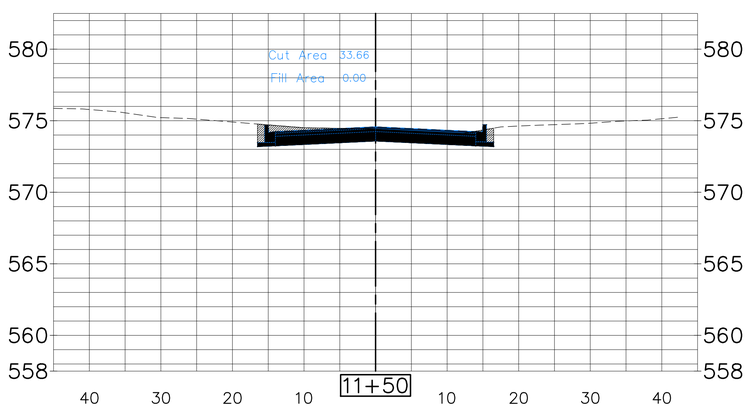


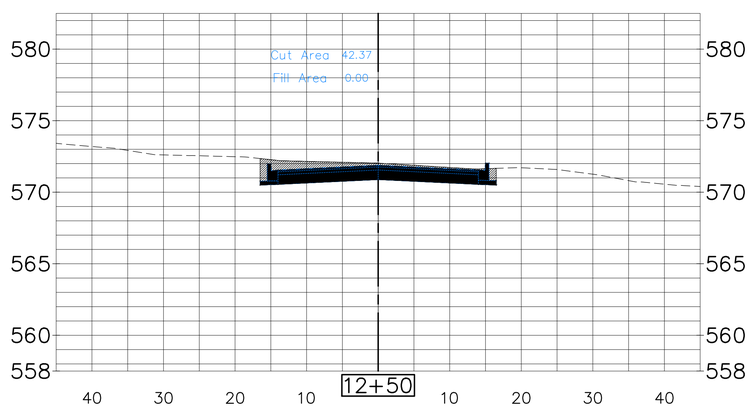










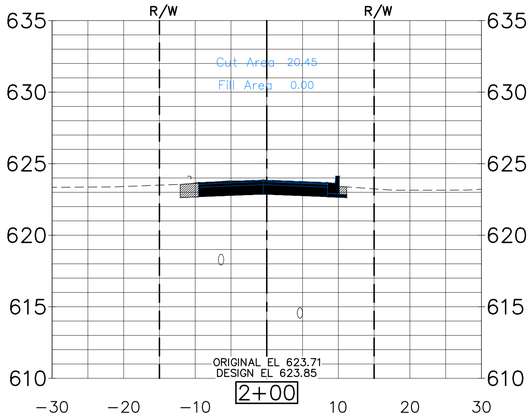


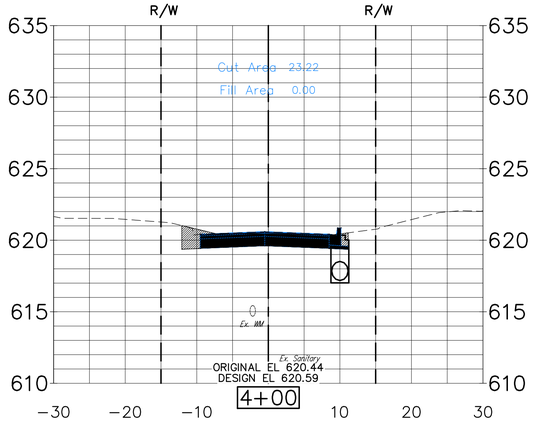
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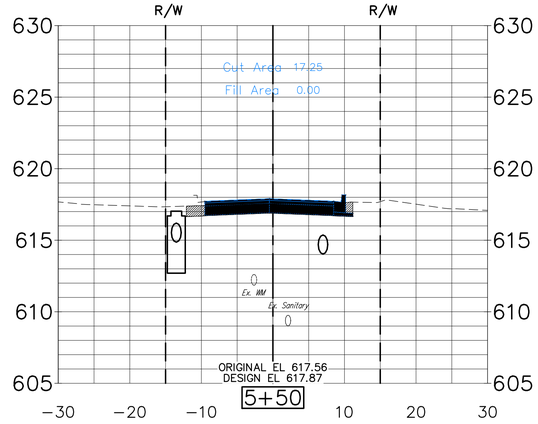
CITY OF JOLIET

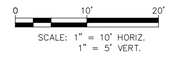
ENG:	DDO
DATE:	JAN 2022

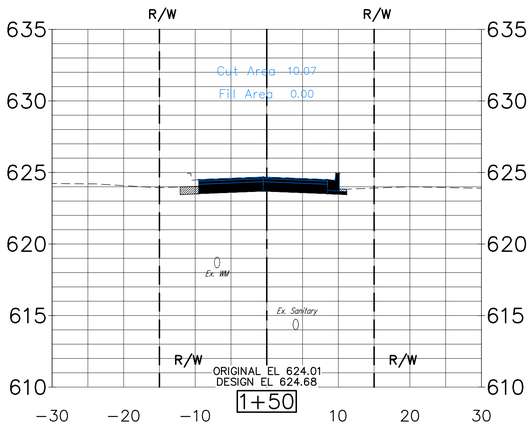
DEKALB STREET

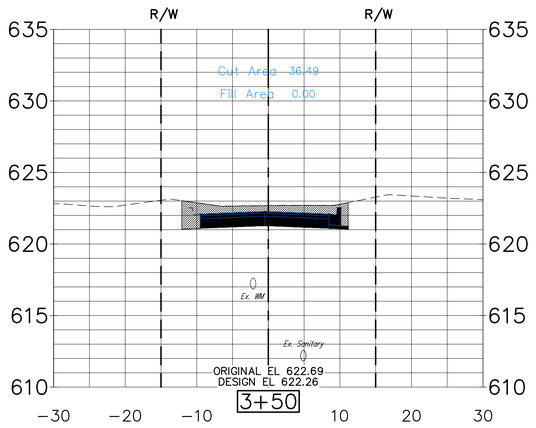


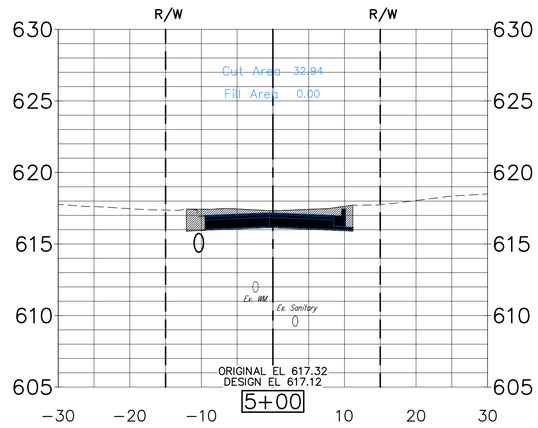


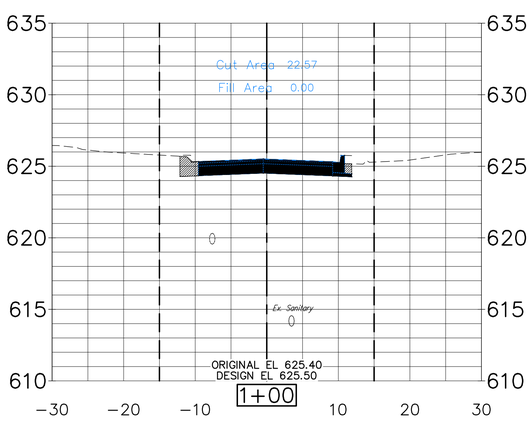


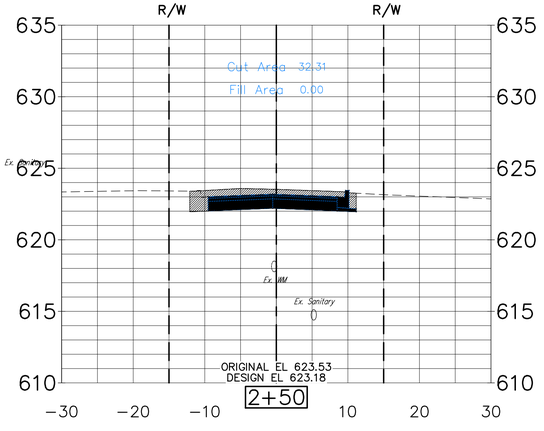


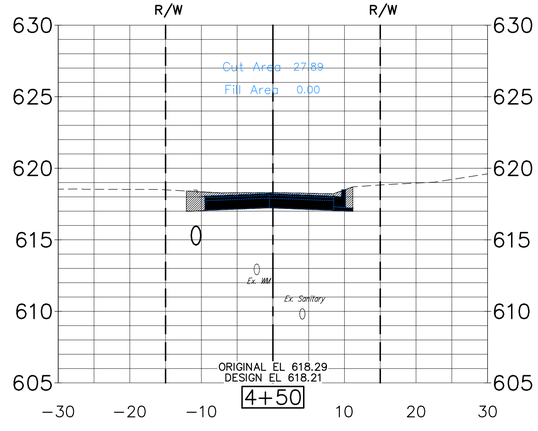










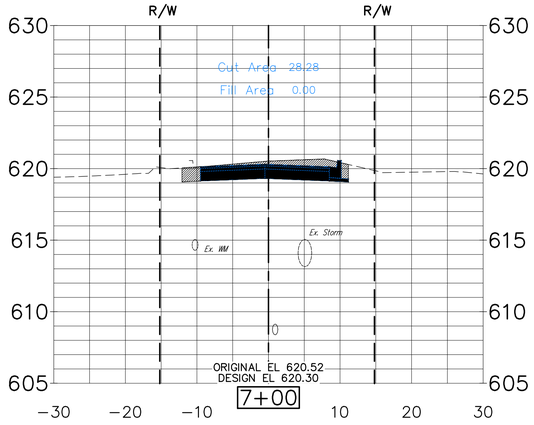


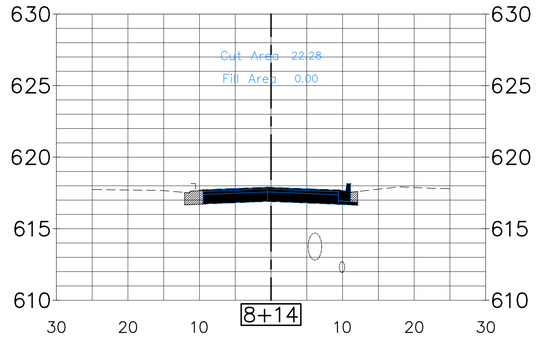
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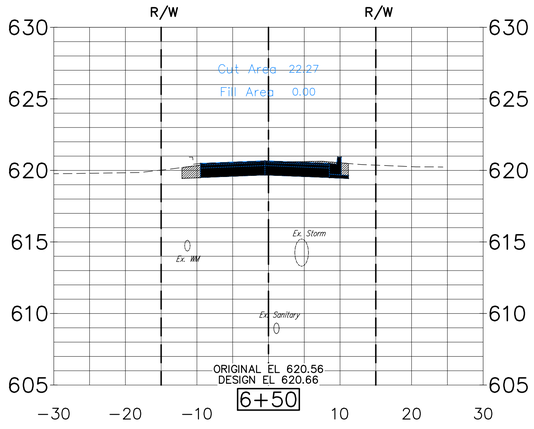
CITY OF JOLIET

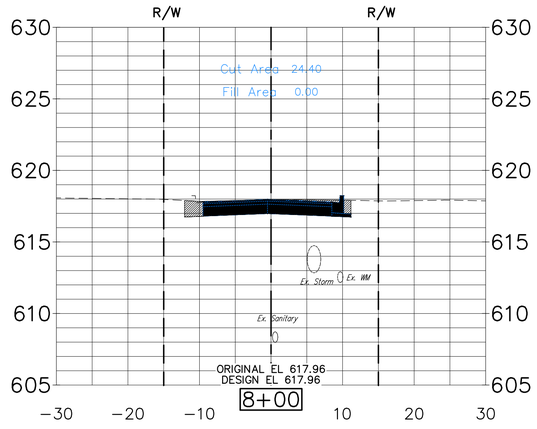
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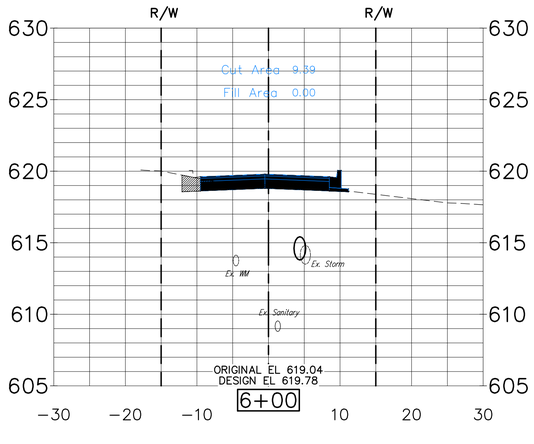
DORA AVENUE

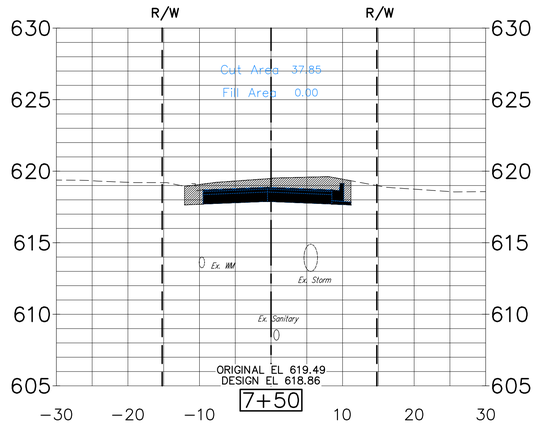


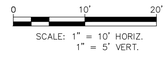










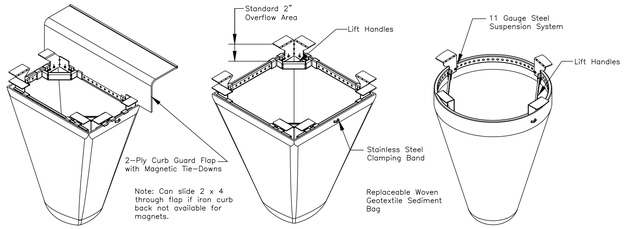


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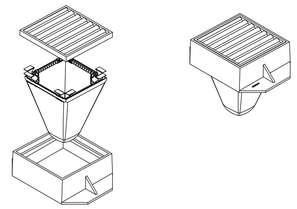
DORA AVENUE



TYPICAL CURB BOX INLET FILTER | TYPICAL FLAT/RECTANGULAR/ROLLED CURB INLET FILTER | TYPICAL ROUND INLET FILTER

Materials:
1. Framing – 11 gauge steel; corossion resistant
2. Sediment Bag – Woven Geotextile (Type FF or approved alternate); 2 cubic ft typ volume; Stainless Steel locking band securing bag to frame

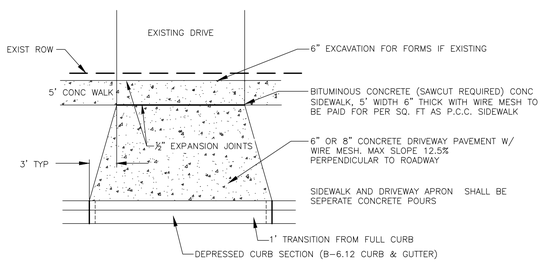
Installation:
1. Remove grate
2. Drop Inlet Filter onto load bearing lip of casting or concrete structure
3. Replace grate



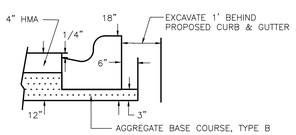
STORM DRAIN INLET PROTECTION

State Standards

000001-07	Standard Symbols, Abbreviations and Patterns
424001-11	Perpendicular Curb Ramps For Sidewalks
602011-02	Catchbasin Type C
602301-04	Inlet Type A
602401-06	Precast Manhole Type A
602701-02	Manhole Steps
304001-05	Frames & Lids Type 1
604051-04	Frame & Grate Type 11
604056-04	Frame & Grate Type 11V
606001-07	Conc. Curb T-B & Comb Curb & Gutter
701501-06	Urban Lane Closure, 2L, 2W, Undivided
701602-10	Urban Lane Closure, Multilane, 2W with Bidirectional Left Turn Lane Case IV
701801-06	Sidewalk, Corner or Crosswalk Closure
701901-08	Traffic Control Devices
B.L.R. 22-7	Typical Application of Traffic Control Devices for Construction on Rural Local Highways



P.C.C. DRIVEWAY APPROACH PLAN



PROPOSED TYPICAL DETAIL B-6.12 CURB

GENERAL NOTES

1. The cost of any labor or materials necessary in connecting existing drain tiles or storm sewer to proposed drainage structures, or in connecting proposed storm sewers to existing drainage structures shall be considered incidental to the proposed drainage structures or storm sewers.

2. The location of underground utilities on the plans represents the best knowledge of the City and the indicated adjustments or reconstructions are considered to be reasonably accurate. It shall be the Contractor's responsibility, as detailed in Section 107.39 of the Standard Specifications, to verify locations of underground utilities before starting construction operations. The Contractor shall indemnify the City, its Officers and employees against all claims due to damage to corporate or private property resulting from his construction operations as described in Articles 107.20 and 107.26 of the Standard Specifications. The Contractor shall make his own investigation to determine the existence, nature and location of all utility lines and appurtenances within the limits of improvements. The Contractor will be responsible for performing exploratory excavation to expose any underground utility – including services – with a City representative present and identifying all possible utility conflicts within the proposed public improvement prior to excavating for the roadway. The Contractor shall backfill these exploratory excavation sites with trench backfill and shall maintain the roadway until all the identified utility conflicts are resolved. The cost of the exploratory excavation for underground utilities shall be considered incidental to the contract. No other compensation shall be allowed for this work. The Contractor will be required to cooperate with all Contractors, Utility companies, and the City of Joliet, involved with the removal, temporary relocation, reconstruction, or abandonment by these agencies of any and all services or facilities owned or operated by them within the limits of the improvement. Before doing any work which will damage, disturb, or leave unsupported or unprotected any utility lines encountered, the Contractor shall notify the respective owner thereof, who will make arrangements for relocating, adjusting, or otherwise maintaining or abandoning services or lines that fall within the limits of the proposed construction without cost to the Contractor, including the removal of cables, manhole covers, and other appurtenances which the owner desires to salvage. After such arrangements have been made, the Contractor will proceed with the work as directed by the Engineer. No extra compensation will be allowed the Contractor for any expenses incurred by complying with these requirements, or because of delays, inconvenience, or interruptions in his work resulting from the failure of any City or Utility Company to remove, relocate, reconstruct, or abandon their services when required by the Contractor's operations. An extension of time may be granted to the extent the Contractor's operations were affected. The Contractor shall be responsible for coordinating his work with that of these agencies as to ensure that this improvement is not delayed because of necessary changes in the existing utilities, public or private.
The Contractor shall take whatever precautions which may be necessary to protect the property of various utilities which may be located underground or above ground, at or adjacent to the site of this improvement. The contractor will be required to repair or replace at his own expense, or bear the cost of having the utility repair or replace any public/private utility which has been damaged through his efforts. The procedure and specifications of repair will be in accordance with the regulations and/or policy of the utility. The Utility shall be given notice by the Contractor to locate and identify all of their installations at the site of this improvement so that this improvement is not delayed because of necessary changes in the existing utilities, public or private.

3. The Contractor shall proceed with caution for any excavation and preparation of the trench so that the exact location of underground structures may be determined. Prior to proceeding with any excavation, the contractor shall contact all utility companies in the area to aid in locating their underground services.
The Contractor shall contact the involved utility companies not less than 48 hours prior to beginning construction. The majority of these utilities may be be contacted through J.U.L.I.E. at (800) 892-0123. In addition, the Contractor shall be responsible to contact the City of Joliet Utilities 48 hours prior to beginning the construction at (815)724-4220. It shall remain the Contractor's responsibility to contact all utilities.
The Contractor shall take all reasonable precautions against damage to existing utilities. However, in the event of a break in an existing watermain, gas main, sewer, or underground cable, he shall immediately notify the responsible official of the organization operating the utility interrupted. The Contractor shall lend all possible assistance in restoring services and shall assume all cost, charges, and claims connected with the interruption and repair of such services.
Privately owned utilities requiring adjustment will be adjusted by the utility company involved. No additional compensation will be allowed for any delays or inconveniences caused the Contractor due to said adjustments.

4. Trench backfill must be provided under all roadway surfaces and driveways and as directed by the Engineer.

5. Existing sidewalk, pavement, driveway pavement and curb and gutter damage due to the Contractor's operations shall be replaced at the expense of the Contractor.

6. For all manholes, catch basins, and inlets, the distance shown on the plans is from the baseline to the center of the structure, except structures in the curb line where the distance is shown to the back of curb.

7. All existing valve vaults and manholes indicated on the plans or as directed by the Engineer shall be covered with a Contractor-supplied steel plate at all times during construction. Upon preparation for binder course, the frame shall be installed to the surface elevation as shown on the plans or as directed by the Engineer and set in concrete according to the Standard Specifications.

8. This project is to be built according to the City of Joliet Special Provisions and General Conditions adopted Jan 1, 2013 unless otherwise stated in the contract documents.

9. Where section or sub-section monuments are encountered, the Engineer shall be notified before such monuments are removed. The Contractor shall protect and carefully preserve all property markers and monuments until the owner and an authorized surveyor or agent has witnessed or otherwise referenced their location. However, if damaged irons occur, it is the responsibility of the Contractor to restore the marker per Registered Land Surveyor at his own expense.

10. It shall be the responsibility of the Contractor to construct each inlet or catch basin at the proper location so that the frame or grate matches the curb line as shown in the applicable Standard.

11. All proposed manholes, catch basins and inlets shall be fabricated to include no less than four (4) inches of adjusting rings to meet the required grade.

12. The cost of the removal and disposal of the asphalt shall be considered incidental to roadway excavation.

13. All top of curb (TOC) elevations, excluding depressed curb, are 0.1' above the listed C/L elevations unless otherwise noted on the typical sections.

14. All structure rim elevations located in the curb line are top of curb elevations unless otherwise noted.

15. All grassed areas disturbed during construction operations shall be seeded or sodded in accordance with sections 642 and 644 of the Standard Specifications, as indicated in the plans.

16. Quantities for adjusting sanitary sewer services and water service lines have been added to the summary of quantities and the contract to provide a unit price bid for the item, and are to be used only if field conditions require their use, as approved by Engineer.

17. The Contractor shall protect existing or new utilities by methods approved by the Engineer, and he shall brace and support the utilities properly to prevent settlement, displacement, or damage to the utilities. The protection of the utilities as specified herein, will not be paid for separately, but shall be considered incidental to the contract.

18. Existing street signs, markers stop signs, and all other roadway signs shall be removed and reset by the Contractor as per current MUTCD standards and as directed by the Engineer. This work will not be paid for directly, but shall be considered incidental to the contract. Signs and posts damaged by the contractor shall be replaced by him at his own expense.

19. Sidewalk ramps for the handicapped shall be constructed at locations where existing or proposed sidewalks abut the street returns within the limits of this improvement in accordance with Highway Standard 424001-07 of the State of Illinois. This work will not be paid for separately, but shall be considered incidental to the proposed sidewalk.

20. Timeliness of work: The contractor shall perform all work in a timely, orderly, and diligent manner. The Contractor shall cooperate with and conform to the request of the City to expedite particular portions of the work insofar as to complete certain phases of work in a timely manner. Work shall be completed within the timeframe as outlined in the Supplemental Special – WORKING DAYS (BDE) 80071. Contractor shall submit a PROJECT SCHEDULE showing coordination of sub-contractors and sequencing of work. Construction of the concrete curb & gutter shall begin within five (5) working days of the completion of the roadway grading and subbase preparation. Upon completion of the concrete curb & gutter, construction of the driveway aprons shall begin, and remain continuous, such that driveways shall not remain inaccessible for more than 20 working days, as measured from the date of completion of roadway excavation. If the contractor cannot meet these requirements, he shall provide temporary stone access to all affected driveways. No additional compensation will be allowed for providing, placing, and removing all temporary access stone. The City reserves the right to place and remove the temporary stone and deduct the cost from the construction contract for contractors not meeting this requirement.

21. Protection of property and surface structures: Trees, shrubbery fences, poles, right-of-way pins and all other property and surface structures shall be protected during construction operations unless the Engineer authorizes their removal for purposes of construction. Any fences, poles, or other manmade surface improvements, which are moved or disturbed by the Contractor shall be restored to the original conditions, after construction is completed, at the Contractor's expense. Any trees, shrubbery, or other vegetation, which are approved for removal by the Engineer in order to facilitate construction operations, shall be removed completely, including stumps and roots, by the Contractor. Responsibility for any damage or claims for damage caused by construction operations to shrubbery or other landscape improvements, which were not authorized for removal by the Engineer, shall be assumed by the Contractor.

22. Work to be Done by Others: The City of Joliet Public Works and Utilities, Com-Ed, NICOR, At&T, and others may be adjusting their facilities during construction of this section. In such event, it will be necessary for the Contractor to cooperate with the various organizations and the City while they are doing this work. All street lighting/utility poles and luminaries required to be moved shall be relocated and wired by the owner of the pole as per their franchise agreement. No compensation shall be allowed to the Contractor for street lighting/utility pole relocation work.

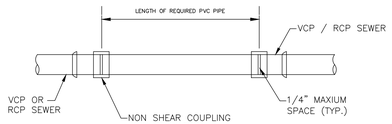
23. In accordance with Article 105.09 of the "Standard Specifications", the Contractor shall furnish to the City of Joliet Public Works Office, 150 W. Jefferson Street, at his/her expense, construction layout stakes for the project. The material for all layout stakes and lathe shall be oak, Layout stakes (hubs) shall be 2"x2"x15". Lathe shall be four (4') feet in length. Hubs shall be provided at a rate of one bundle per 300 linear feet of project length for curb and gutter construction and at a rate of one bundle per 600 linear feet of project length for all other construction projects. Lathe shall be provided at a rate of one bundle per 600 linear feet of project length for all construction. The cost incurred by the Contractor in complying with this requirement shall be considered incidental to the contract.

2022 ROADWAY IMPROVEMENTS
DEKALB STREET (Pleasant St. – Center St.)
DORA AVENUE (Woodruff Rd. – Garvin St.)
MFT SEC: 22-00549-00-FP

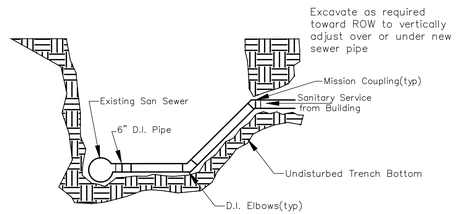
CHECKED BY: MT | SCALE: NONE | SHEET 10 OF 11
DESIGNED BY: DDO | DATE: JULY 2022
DRAWN BY: KLK

CITY OF JOLIET
DEPARTMENT OF PUBLIC WORKS
150 W. JEFFERSON STREET, JOLIET, ILLINOIS 60431
(815)-724-4200

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CONNECTING SEWER PIPES OF SIMILAR & DISSIMILAR MATERIAL
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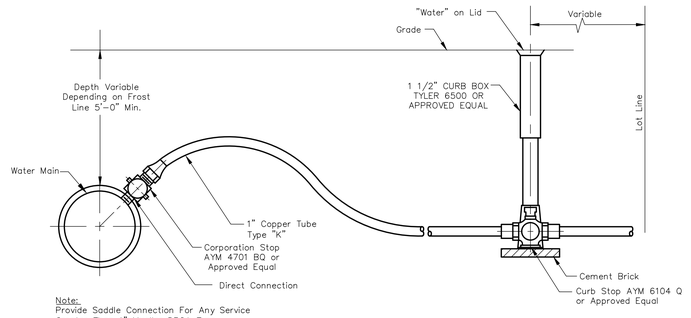


TYPICAL DETAIL SANITARY SEWER SERVICE

NO SCALE

SLOPING LATERAL TRENCH – ANY DEPTH

MAXIMUM SLOPE SHALL BE LESS THAN 1:1 WHEN IT IS NECESSARY TO SECURE BEDDING IN UNDISTURBED EARTH.



Note:
Provide Saddle Connection For Any Service Greater Than 1" Mueller DB2A Type.

TYPICAL WATER SERVICE DETAIL

No Scale

SANITARY / WATER MAIN GENERAL NOTES

1. Division II, III and IV, and the applicable standard drawings of the "Standard Specifications for Water and Sewer Main Construction in Illinois" Dated July, 2009, shall govern the construction of the proposed improvement, except as modified or revised, and/or amended as shown on the plans, or called for on the contract document, and/or as ordered by the engineer.

   All the references in Division II, III and IV to Division I of the Standard Specifications shall be deleted and reference made to the applicable sections of the contract documents.

   Paving improvements shall be constructed in conformance with standard Specifications for Road and Bridge Construction Adopted January 1, 2012 BY Illinois Department of Transportation.

2. The maximum allowable rate of infiltration shall not exceed 200 gallons per 24 hours per inch–diameter per mile of sewer pipe.

3. Sanitary sewer pipe shall be PVC–DSR26, unless stated otherwise, in accordance with ASTM D–3034 with flexible electrometric seals for ASTM D–3212.

4. Where ductile iron pipe is used for sanitary sewer, the pipe shall be in accordance with ANSI A–21.51 And the joints in accordance with A–21.11.

5 All sanitary sewer shall be constructed on a minimum bedding of 4" embedment material Class II per ASTM D–2321.

6. All proposed sanitary sewer, water main and services under and within 2' of pavement or sidewalk shall be backfilled with trench backfill which shall be crushed stone, gradation CA–7 or CA–6.

7. "Band Seal" or similar flexible type coupling shall be used at all points of change in sanitary sewer pipe material.

8. When connecting to the existing sanitary sewer, if no wye, tee or manhole is existing, one of the following methods shall be used:

   A. Circular saw–cut sewer main by proper tools ("Sewer–Tap" machine or similar) and proper installation of hub–wye or hub–tee saddle.

   B. With pipe cutter, neatly and accurately cut out desired length of pipe for insertion of proper fitting, using "BAND–SEAL" or similar coupling to hold it firmly in place.

9. Horizontal and vertical separation of water mains and sewer lines shall be done in accordance with Section 41–2.01B and Section 41–2.01C of the "Standard Specification for Water and Sewer Main Construction in Illinois" Adopted July 2009.

10. The locations of existing underground utilities, such as water mains, sewer, gas lines, etc., as shown on the plans have been determined from the best available information and is given for the convenience of the contractor. However, the engineer and owner do not assume responsibility for the accuracy of the locations shown. It shall be the contractor's responsibility to contact all utility companies and their facilities shall be located prior to any work.

11. Wherever obstructions not shown on the plans are encountered during the progress of the work and interfere to such an extent that an altercation in the plans is required, the engineer shall be notified prior to any changes.

12. As–Built drawings shall be prepared by the contractor and submitted to the engineer as soon as the project is completed. Any change in the length, location or alignment shall be shown in red.

13. The City of Joliet must be notified at least two working days prior to commencement of work.

14. All water main shall be ductile iron cement lined Class 52 with rubber gasket push–on joints and 8 MIL polywrap in accordance with ANSI A–21.51 unless specified otherwise.

15. All fire hydrants shall be designed for a working pressure of 150 pounds per square inch and shall conform in workmanship, design and material to AWWA Standard C–502. Hydrant hose nozzle, pumper nozzle and type shall conform to the City of Joliet Standard.

16. Gate valves shall be resilient wedge with non–rising stem designed for not less than 150 psi working pressure and shall be tested for leakage and distortion under a hydraulic pressure of not less than 300 PSI. The minimum requirements for all gate valves shall, in design, material and workmanship, conform to the standards of AWWA C–500. All materials used in the manufacture of gate valves be equal to the City of Joliet Standards with ends as required for specified joints.

17. All fittings shall be ductile iron C110 Full Body mechanical joint to be provided with set screw type retainer glands and rubber gaskets in accordance with ANSI/AWWA C153/A21.53 and ANSI/AWWA C111/A21.11. Retainer glands are required on all elbows, tees, crosses, valves, hydrants and auxiliary valves. No concrete thrust blocks shall be allowed.

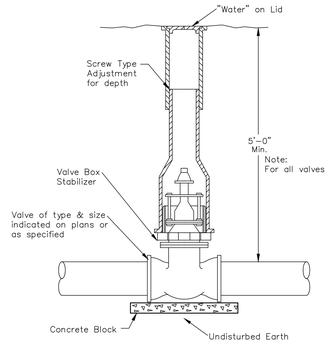
18. Connections to existing manholes to be made by corning a hole through the manhole sidewall and installing an A–LOC OR KOR–N–SEAL type boot.

19. Leakage testing and deflection testing shall be performed in accordance with Section 31–1.11B (3 & 4) of the "Standard Specifications for Sewer and Watermain Construction in Illinois", Latest Edition. Vacuum testing of the manholes shall be performed in accordance with ASTM C–1244.

20. Disinfection and pressure testing shall be prepared per the standard specifications for sewer and water.

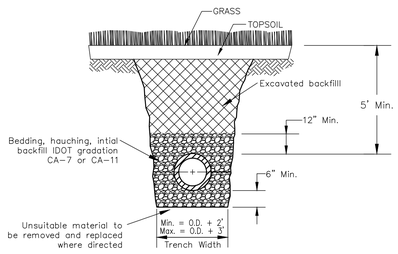
21. Erosion control will be constructed in accordance with standard specifications for soil erosion and sediment control as contained in IEPA/WPC/87–012 or Current Edition.

22. It shall be the Contractor's duty and responsibility to ascertain and execute the means, methods and sequence of construction in accordance with the plans, specifications and other contract documents. This shall include, but shall not be limited to, the exclusive duty and responsibility to provide for workplace safety and worker supervision. It shall exclusively be the Contractor's duty and responsibility to investigate and ascertain the current physical state and operational status of the City's water supply system and the City's sanitary sewer system, including whether a water main or other vessel is operational, contains water, is pressurized or is otherwise safe to alter. Any information provided by the City, or its employees and consultants, regarding the state of its water supply and sanitary sewer systems is provided as a courtesy to the Contractor but is not warranted to be true and may not be relied on by the Contractor in satisfaction of, or to diminish, its exclusive duty to ascertain and execute the means, methods and sequence of construction in accordance with the plans, specifications and other contract documents and its exclusive responsibility to provide for workplace safety and worker supervision.



VALVE AND VALVE BOX

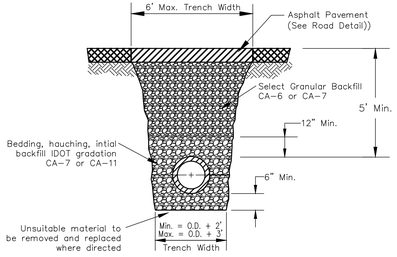
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Structural Locations: Trench backfill mechanically compacted to 95% standard proctor density

TRENCH DETAIL GRASS AREAS WATER MAIN

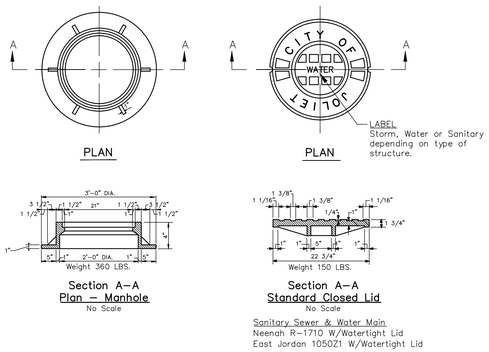
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Structural Locations: Trench backfill mechanically compacted to 95% standard proctor density

TRENCH DETAIL PAVED AREAS WATER MAIN/ SANITARY

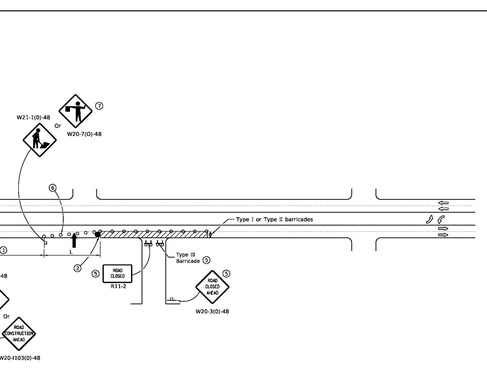
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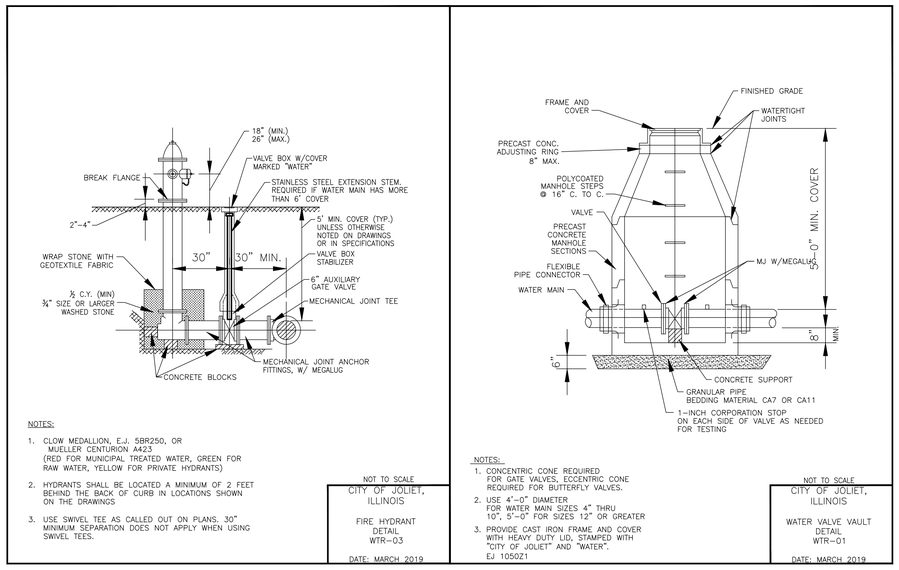


Sanitary Sewer & Water Main
Neenah R–1710 W/Watertight Lid
East Jordan 1050Z1 W/Watertight Lid

FRAME AND LIDS TYPE 1

No Scale





2022 ROADWAY IMPROVEMENTS
DEKALB STREET (Pleasant St. – Center St.)
MFT SEC: 22–00549–00–FP

SCALE: NONE
DATE: JULY 2022
SHEET 11 OF 11

CHECKED BY: MT
DESIGNED BY: DDO
DRAWN BY: KLK

CITY OF JOLIET
DEPARTMENT OF PUBLIC WORKS
150 W. JEFFERSON STREET, JOLIET, ILLINOIS 60431
(815)–724–4200

L:\Public Works\CAD\Projects\2022 Projects\Dekalb St (Pleasant–Center)\Dwgs\Details Cover Details.dwg Plot Date: 7/15/2022 9:58 AM