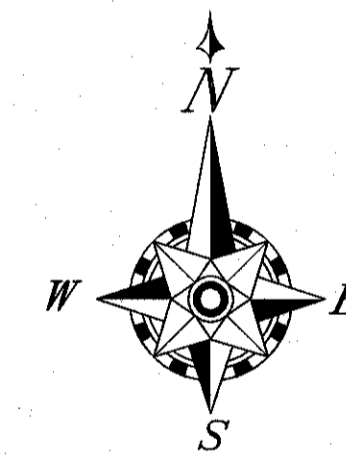
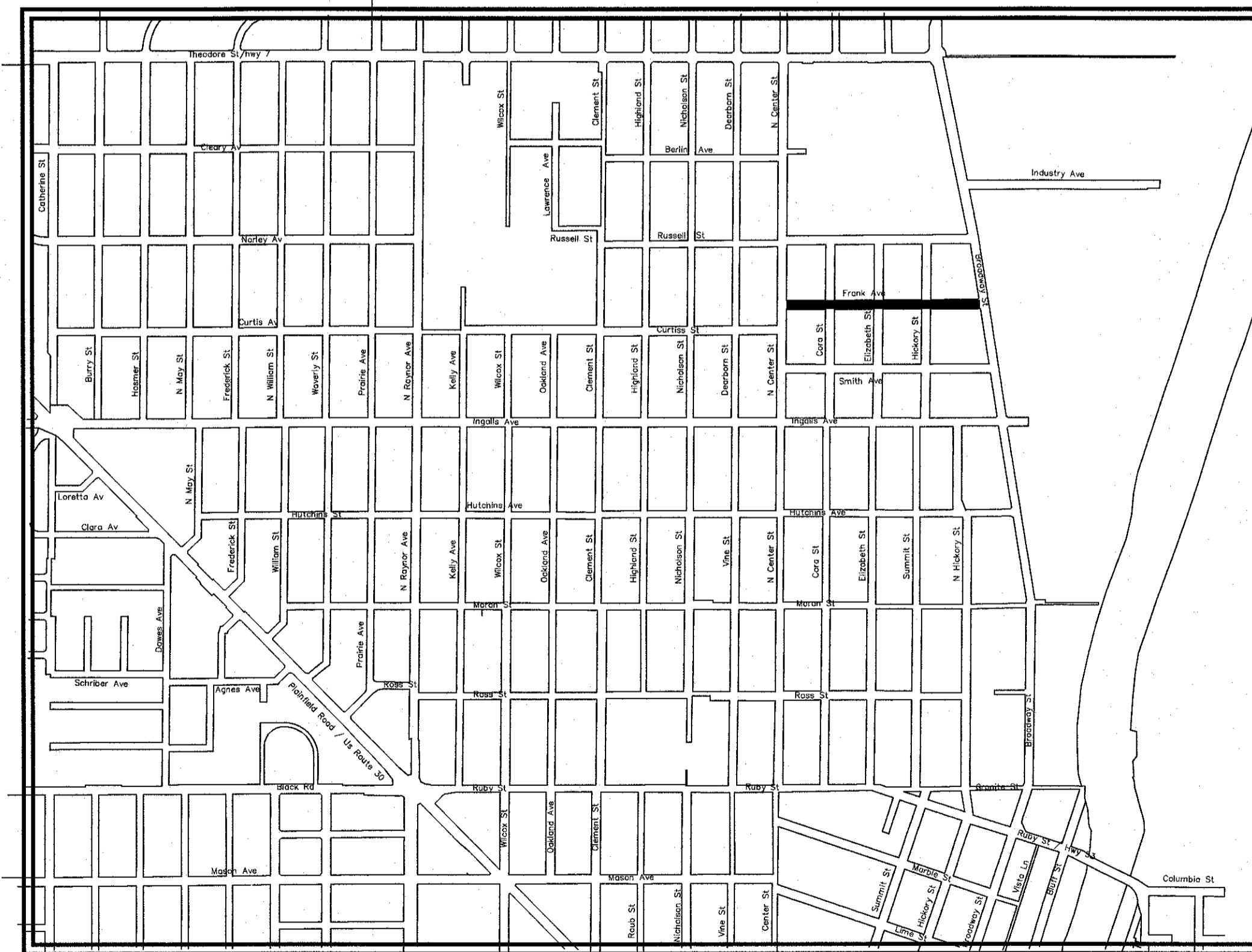


CITY OF JOLIET
WILL COUNTY, ILLINOIS

2016

ROADWAY IMPROVEMENTS FRANK AVENUE (CENTER STREET - BROADWAY STREET)

MFT SEC: 16-00492-00-FP



- INDEX OF SHEETS**
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 3. TYPICAL DETAILS SHEET
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 7. CROSS SECTIONS - FRANK AVENUE
 8. CROSS SECTIONS - FRANK AVENUE
 9. CROSS SECTIONS - FRANK AVENUE
 10. DETAILS

JOLIET TOWNSHIP,
W 1/2, NE 1/4, SECTION 4, TOWNSHIP 35 N, RANGE 10 EAST

TRAFFIC DATA
FRANK AVENUE 2016 ADT = 253
SPEED LIMIT = 25 MPH

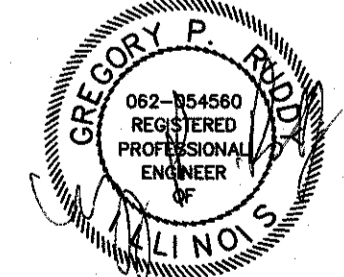
DESIGNED & PREPARED BY:

Mark S. Sefcik

Mark S. Sefcik
CIVIL ENGINEER

APPROVED BY:
CITY OF JOLIET
DEPARTMENT OF PUBLIC WORKS
GREGORY P. RUDDY, P.E.

Gregory P. Ruddy
PUBLIC WORKS ADMINISTRATOR



Date Sealed 04/04/16
Date Expired 11/30/17

Rev. 04/05/2016

DATE: MARCH 2016

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

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

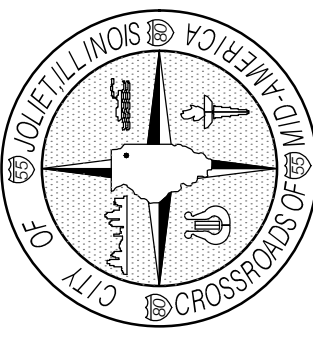
ITEM NO.	CODE NO.	ITEM DESCRIPTION	FRANK AVENUE	QUANTITIES	UNITS
		PROJECT LENGTH:	1090	1090	LIN FT
1	1	TREE REMOVAL (6 TO 15 INCH DIAMETER)	6	6	IN DIA
2	2	TREE REMOVAL (OVER 15 INCH DIAMETER)	24	24	IN DIA
3	3	TREE ROOT SAWING	22	22	EACH
4	6	PARKWAY EXCAVATION	4150	4150	SQ YD
5	7	ROADWAY EXCAVATION	1650	1650	CU YD
6	8	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	325	325	CU YD
7	9	POROUS GRANULAR EMBANKMENT, SPECIAL	325	325	CU YD
8	10	TRENCH BACKFILL	7	7	CU YD
9	11	SUB-BASE GRANULAR MATERIAL, TYPE C 3"	2005	2005	SQ YD
10	12	AGGREGATE BASE COURSE TYPE B 8"	3965	3965	SQ YD
11	15	PREPERATION OF BASE	3475	3475	SQ YD
12	16	AGGREGATE BASE REPAIR	50	50	TON
13	18	ROCK EXCAVATION FOR STRUCTURES	37	37	CU YD
14	24	STORM SEWERS, TYPE 1 12"	30	30	LIN FT
15	57	DISCONNECTION OF EXISTING WATER SERVICE LINE	1	1	ALLWNC
16	65	SANITARY SERVICE REPLACEMENT(CASE I)	10	10	LIN FT
17	66	SANITARY SERVICE REPLACEMENT(CASE II)	10	10	LIN FT
18	99	MANHOLES TO BE RECONSTRUCTED	3	3	EACH
19	105	INLETS TO BE RELOCATED	4	4	EACH
20	108	FRAME AND GRATE TO BE FURNISHED & INSTALLED, TYPE 11 (VANED)	5	5	EACH
21	109	FRAME AND GRATE TO BE FURNISHED & INSTALLED, TYPE 11 (SP) (VANED)	5	5	EACH
22	109	FRAMES AND LIDS TO BE FURNISHED & INSTALLED, TYP 1, CLOSED LID	2	2	EACH
23	113	COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.12	2175	2175	LIN FT
24	118	DRIVEWAY PAVEMENT REMOVAL	1380	1380	SQ YD
25	120	COMBINATION CURB & GUTTER REMOVAL	16	16	LIN FT
26	121	SIDEWALK REMOVAL	1000	1000	SQ FT
27	127	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6"	540	540	SQ YD
28	128	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8"	155	155	SQ YD
29	129	PORTLAND CEMENT CONCRETE SIDEWALK ,5"	3325	3325	SQ FT
30	130	HOT MIX ASPHALT DRIVEWAY PAVEMENT 3"	905	905	SQ YD
31	137	DOMESTIC WATER SERVICE BOXES TO BE RELOCATED	2	2	EACH
32	138	DOMESTIC WATER SERVICE BOXES TO BE ADJUSTED	6	6	EACH
33	140	FURNISHING AND PLACING TOPSOIL	3575	3575	SQ YD
34	143	SODDING	3575	3575	SQ YD
35	145	TRAFFIC CONTROL AND PROTECTION	1	1	L SUM
36	153	SAWCUT ASPHALT SURFACE	1100	1100	LIN FT
37	154	SAWCUT CONCRETE SURFACE	150	150	LIN FT
38	155	ASHPALT/CONCRETE SAWING	10	10	LIN FT
39	156	MODULAR CONCRETE BLOCK RETAINING WALL	675	675	SQ FT
40	158	PROTECTIVE COAT	1595	1595	SQ YD
41	159	TEMPORARY DRIVEWAY ACCESS	50	50	TON
42	182	HARDWOOD MULCH	22	22	EACH
43	177	DETECTABLE WARNINGS	160	160	SQ FT
44	178	EROSION CONTROL	1	1	L SUM
45	179	REMOVAL AND DISPOSAL OF CONTAMINATED MATERIAL	50	50	CU YD
46	82	INLETS, TYPE A, TYPE 1 FRAME, OPEN LID	1	1	EACH

2016 ROADWAY IMPROVEMENTS
FRANK AVENUE (CENTER ST. - BROADWAY ST.)
MFT SEC: 16-00492-00-FP

CHECKED BY: GPR
DESIGNED BY: MSS
DRAWN BY: ADR

SCALE: NONE
DATE: MARCH 2016
SHEET 2 OF 10

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

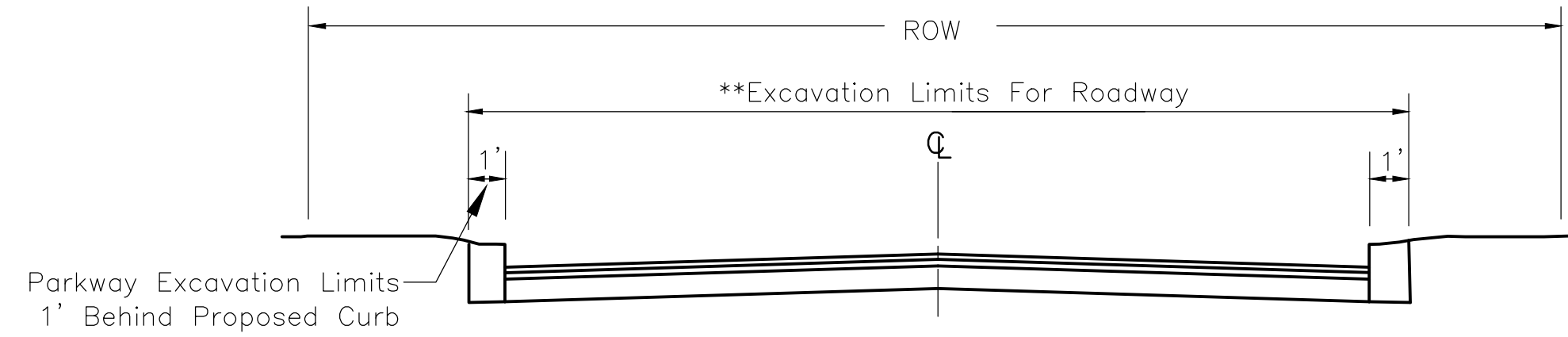


HOT-MIX ASPHALT MIXTURE REQUIREMENTS	
MIXTURE TYPE	AIR VOIDS @ Ndes
FLEXIBLE DEPTH PAVEMENT	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL-9.5mm); 1½"	4% @ 50 Gyr.
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50; 2½"	4% @ 50 Gyr.
DRIVEWAYS	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL-9.5mm)	4% @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

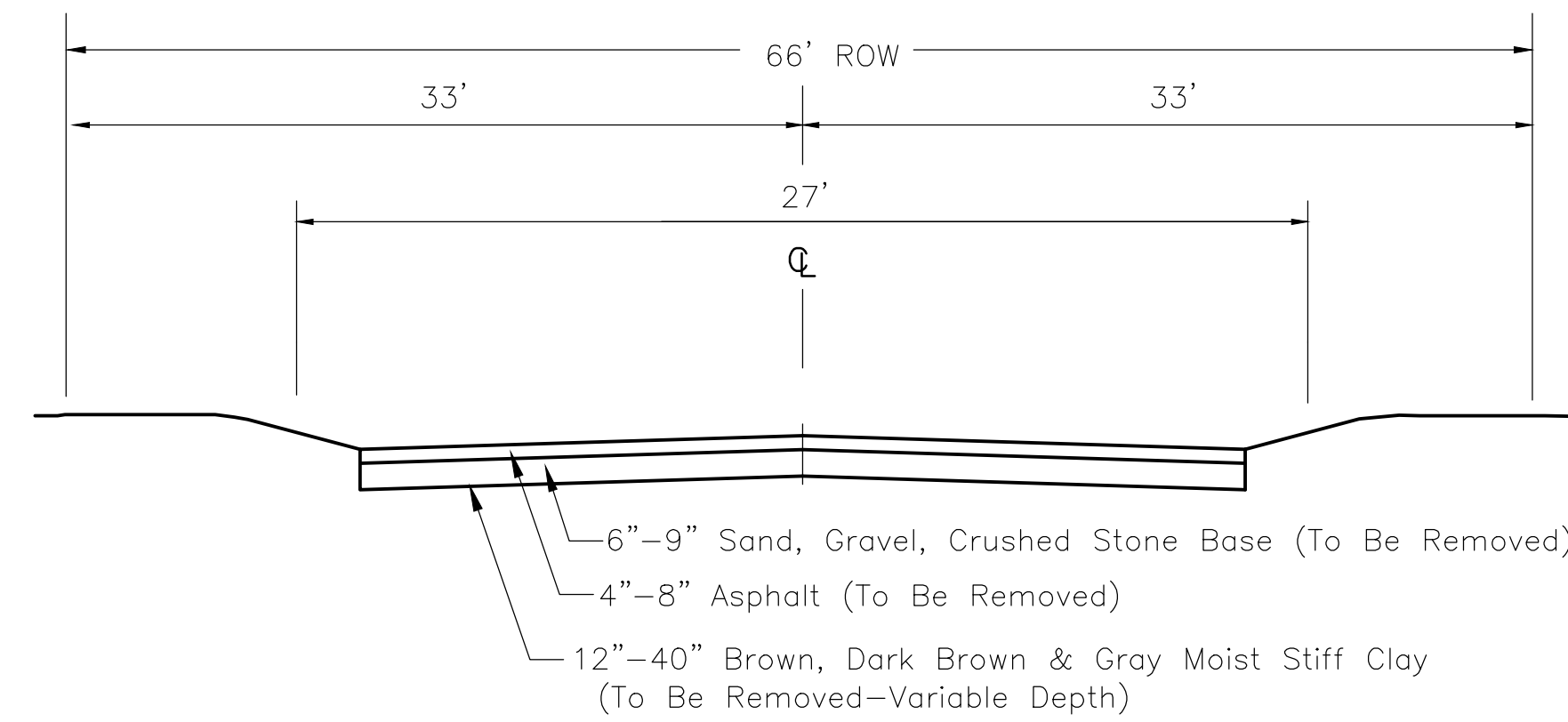
see 1 => THE WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ. YD/IN.

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.

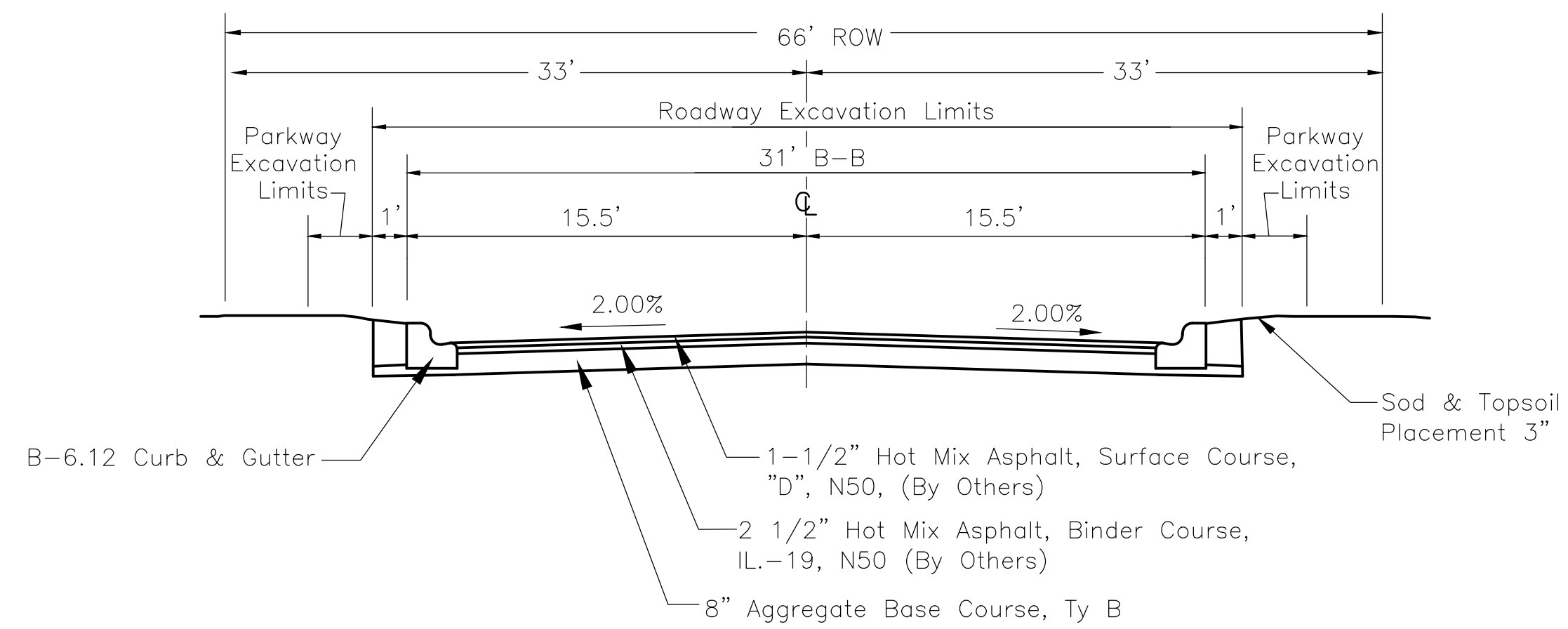
TRAFFIC DATA
 FRANK AVENUE 2016 ADT = 253
 SPEED LIMIT = 25 MPH



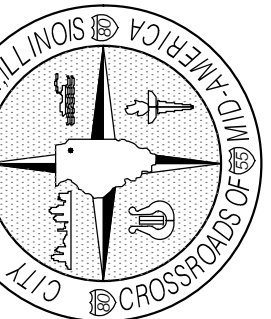
ROADWAY/ PARKWAY EXCAVATION LIMITS
 (FOR INFORMATION ONLY)

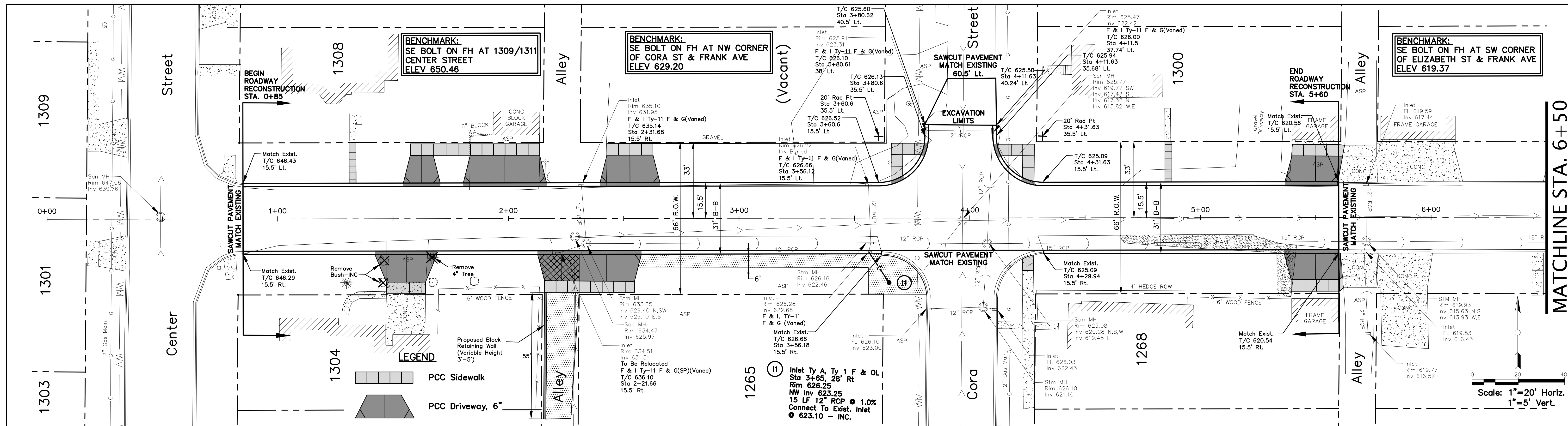


EXISTING SECTION
 FRANK AVENUE



PROPOSED TYPICAL SECTION
 FRANK AVENUE





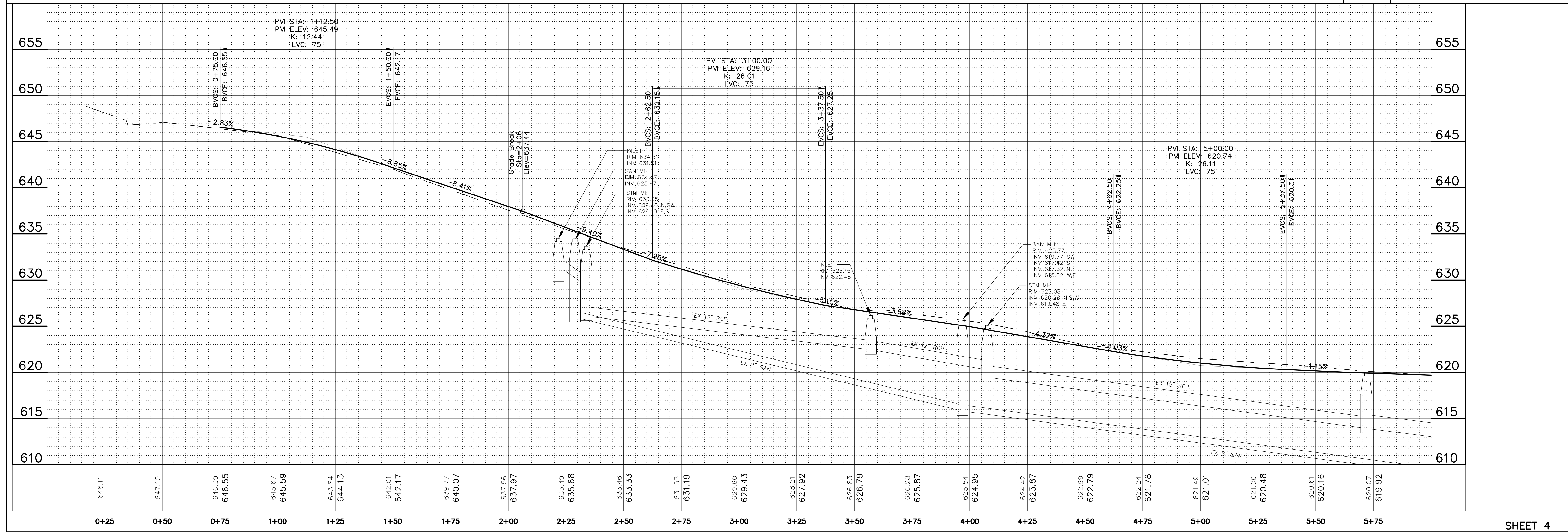
- LEGEND**
- PCC Sidewalk
 -
 -
 -

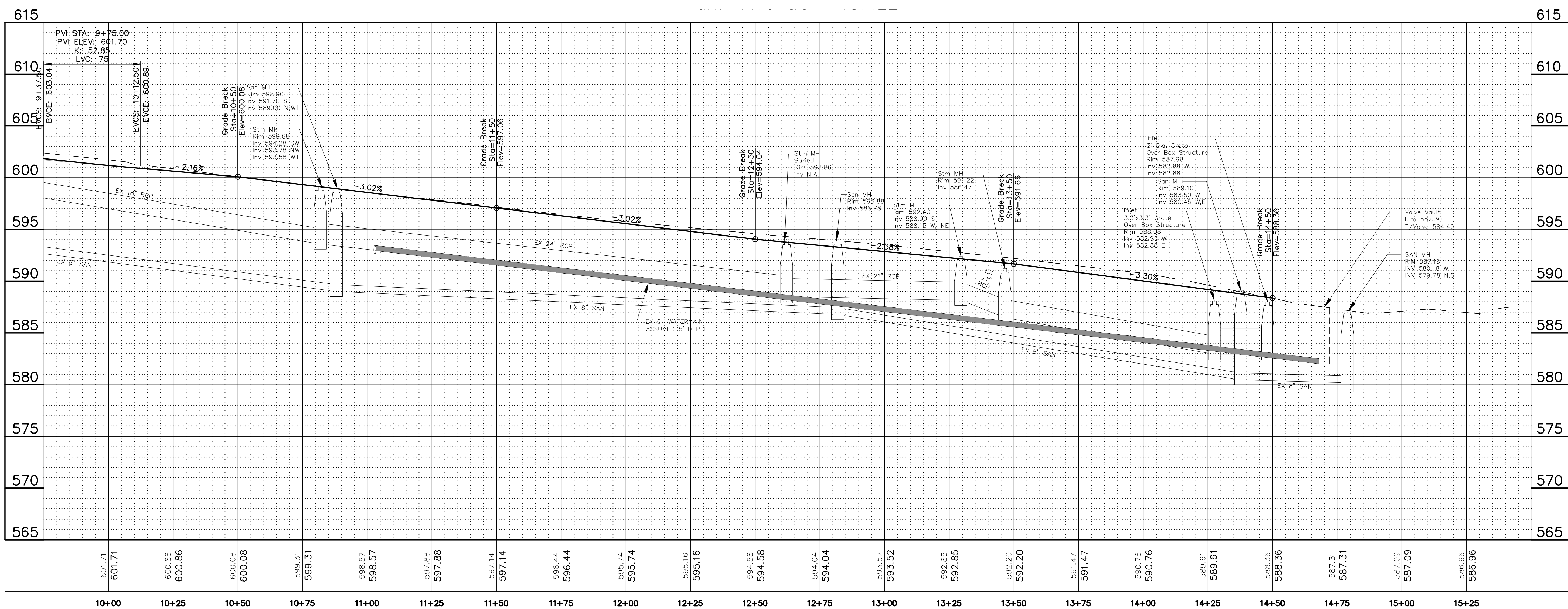
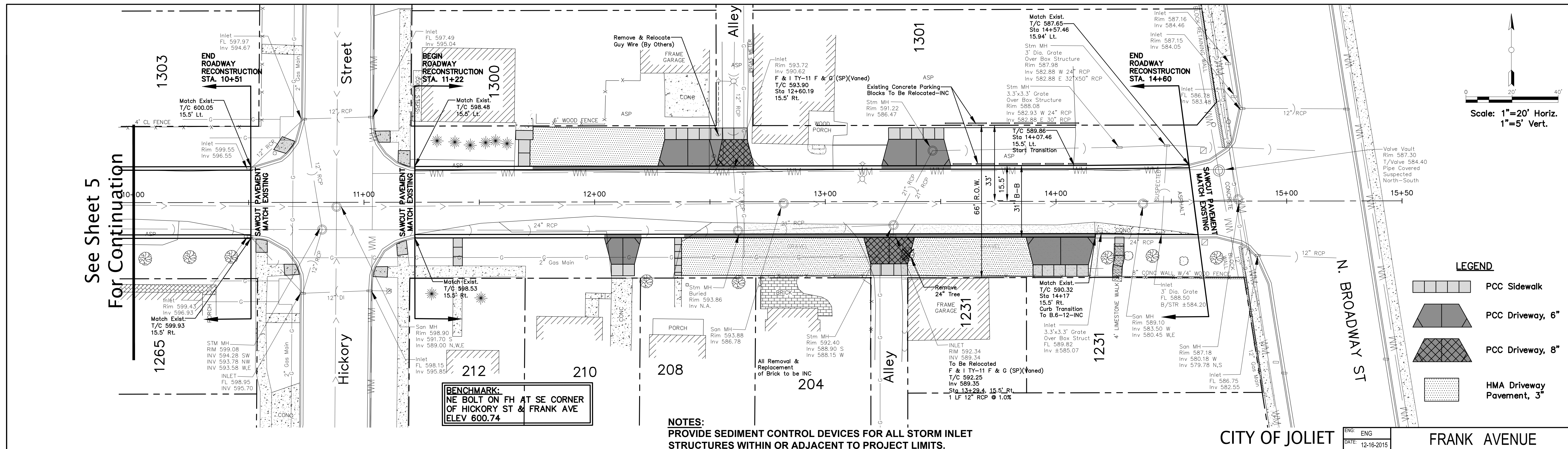
NOTES:
 PROVIDE SEDIMENT CONTROL DEVICES FOR ALL STORM INLET STRUCTURES WITHIN OR ADJACENT TO PROJECT LIMITS.

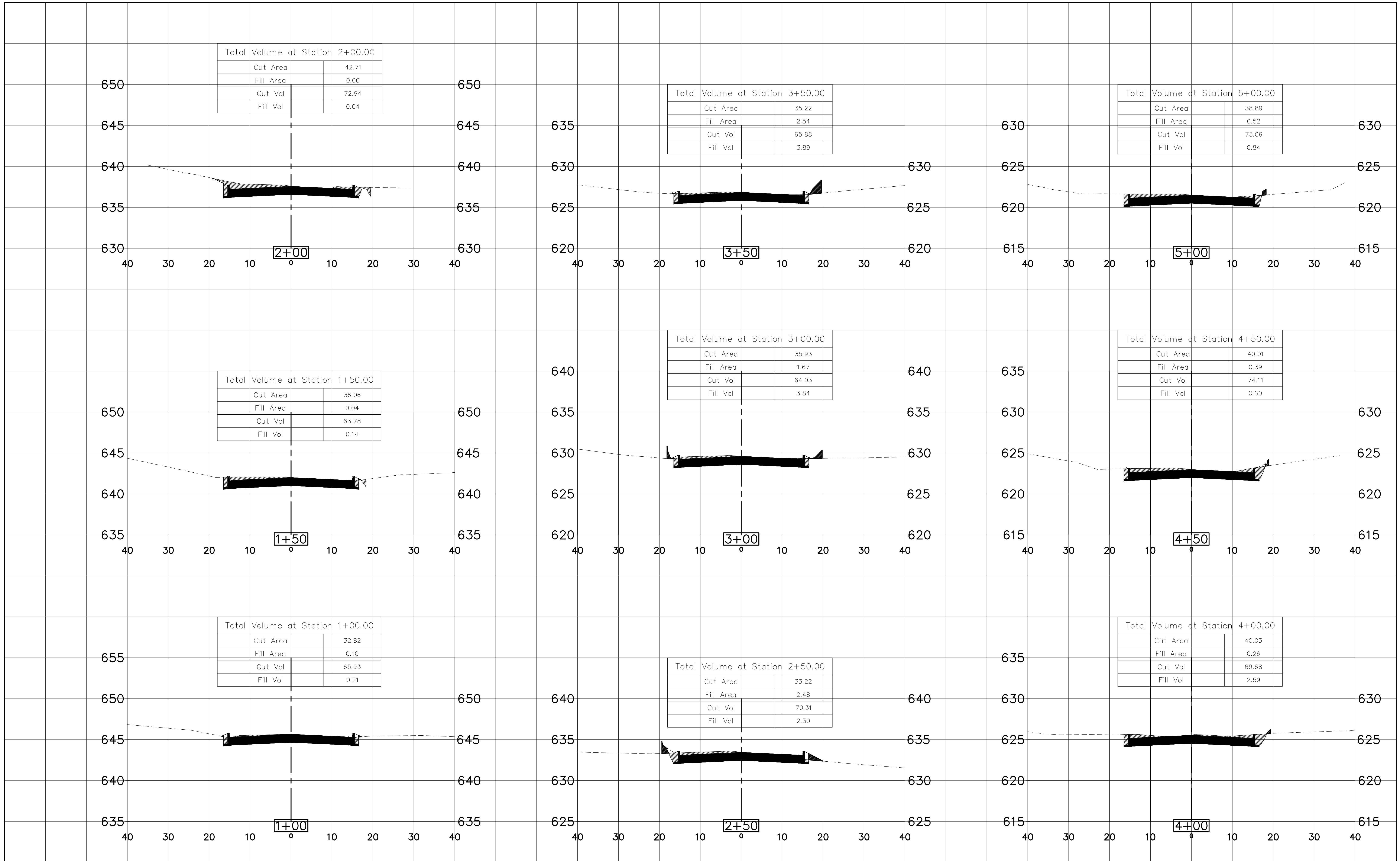
Scale: 1"=20' Horiz.
 1"=5' Vert.

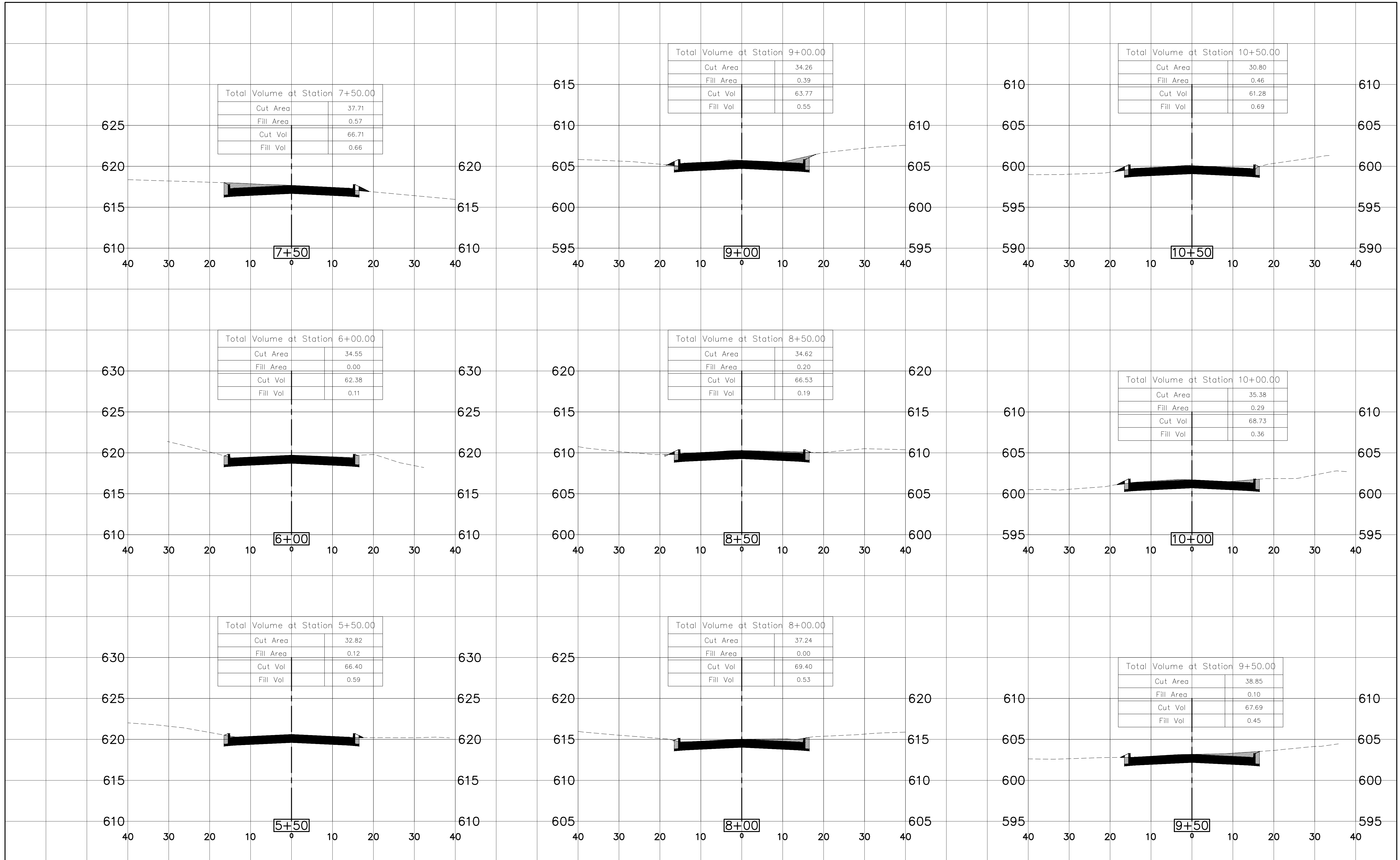
Rev. 04/18/2016
 Rev. 04/05/2016
 Rev. 03/24/2016

CITY OF JOLIET FRANK AVENUE









Total Volume at Station 7+50.00	
Cut Area	37.71
Fill Area	0.57
Cut Vol	66.71
Fill Vol	0.66

Total Volume at Station 9+00.00	
Cut Area	34.26
Fill Area	0.39
Cut Vol	63.77
Fill Vol	0.55

Total Volume at Station 10+50.00	
Cut Area	30.80
Fill Area	0.46
Cut Vol	61.28
Fill Vol	0.69

Total Volume at Station 6+00.00	
Cut Area	34.55
Fill Area	0.00
Cut Vol	62.38
Fill Vol	0.11

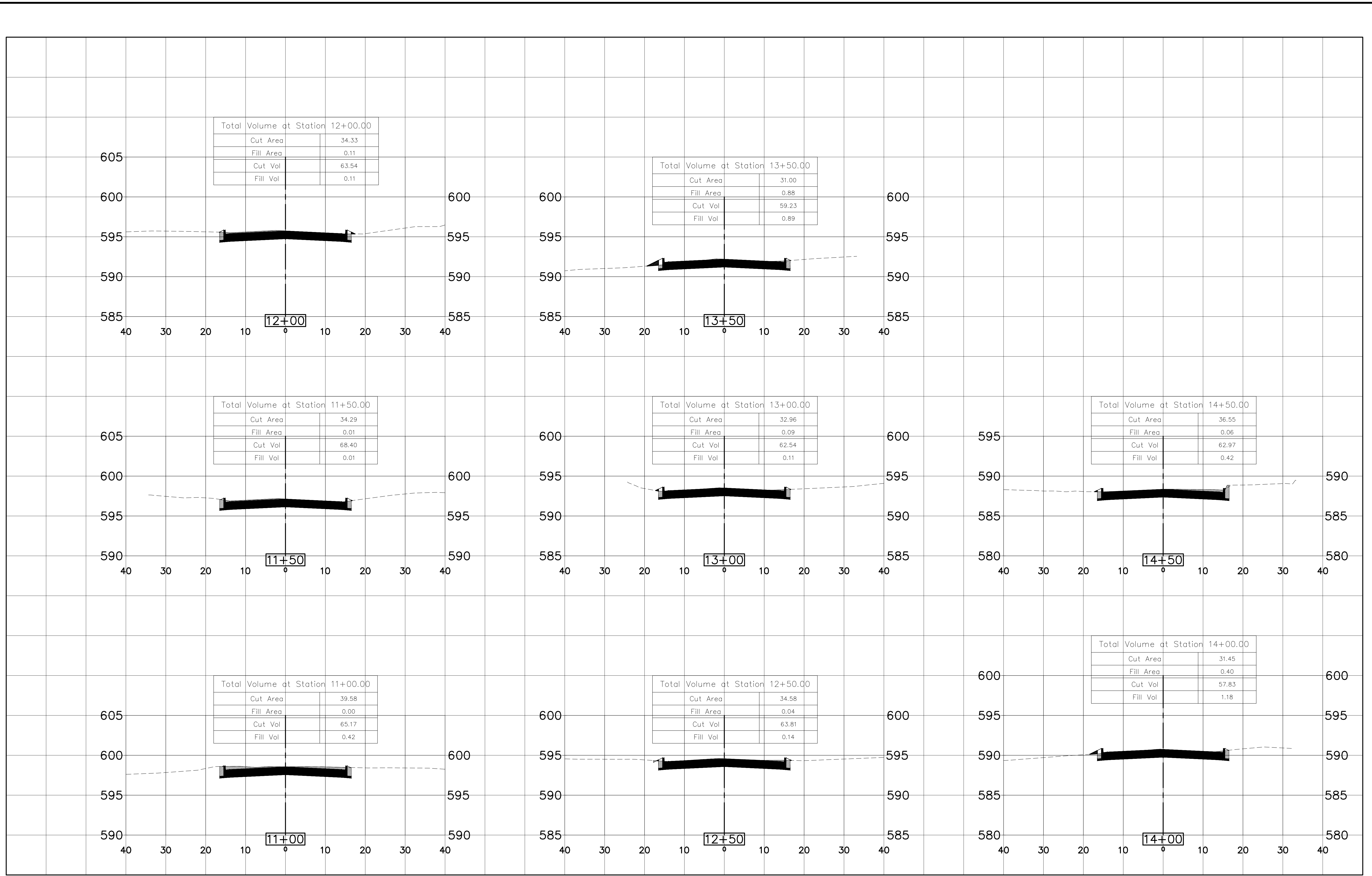
Total Volume at Station 8+50.00	
Cut Area	34.62
Fill Area	0.20
Cut Vol	66.53
Fill Vol	0.19

Total Volume at Station 10+00.00	
Cut Area	35.38
Fill Area	0.29
Cut Vol	68.73
Fill Vol	0.36

Total Volume at Station 5+50.00	
Cut Area	32.82
Fill Area	0.12
Cut Vol	66.40
Fill Vol	0.59

Total Volume at Station 8+00.00	
Cut Area	37.24
Fill Area	0.00
Cut Vol	69.40
Fill Vol	0.53

Total Volume at Station 9+50.00	
Cut Area	38.85
Fill Area	0.10
Cut Vol	67.69
Fill Vol	0.45



Total Volume at Station 12+00.00	
Cut Area	34.33
Fill Area	0.11
Cut Vol	63.54
Fill Vol	0.11

Total Volume at Station 13+50.00	
Cut Area	31.00
Fill Area	0.88
Cut Vol	59.23
Fill Vol	0.89

Total Volume at Station 11+50.00	
Cut Area	34.29
Fill Area	0.01
Cut Vol	68.40
Fill Vol	0.01

Total Volume at Station 13+00.00	
Cut Area	32.96
Fill Area	0.09
Cut Vol	62.54
Fill Vol	0.11

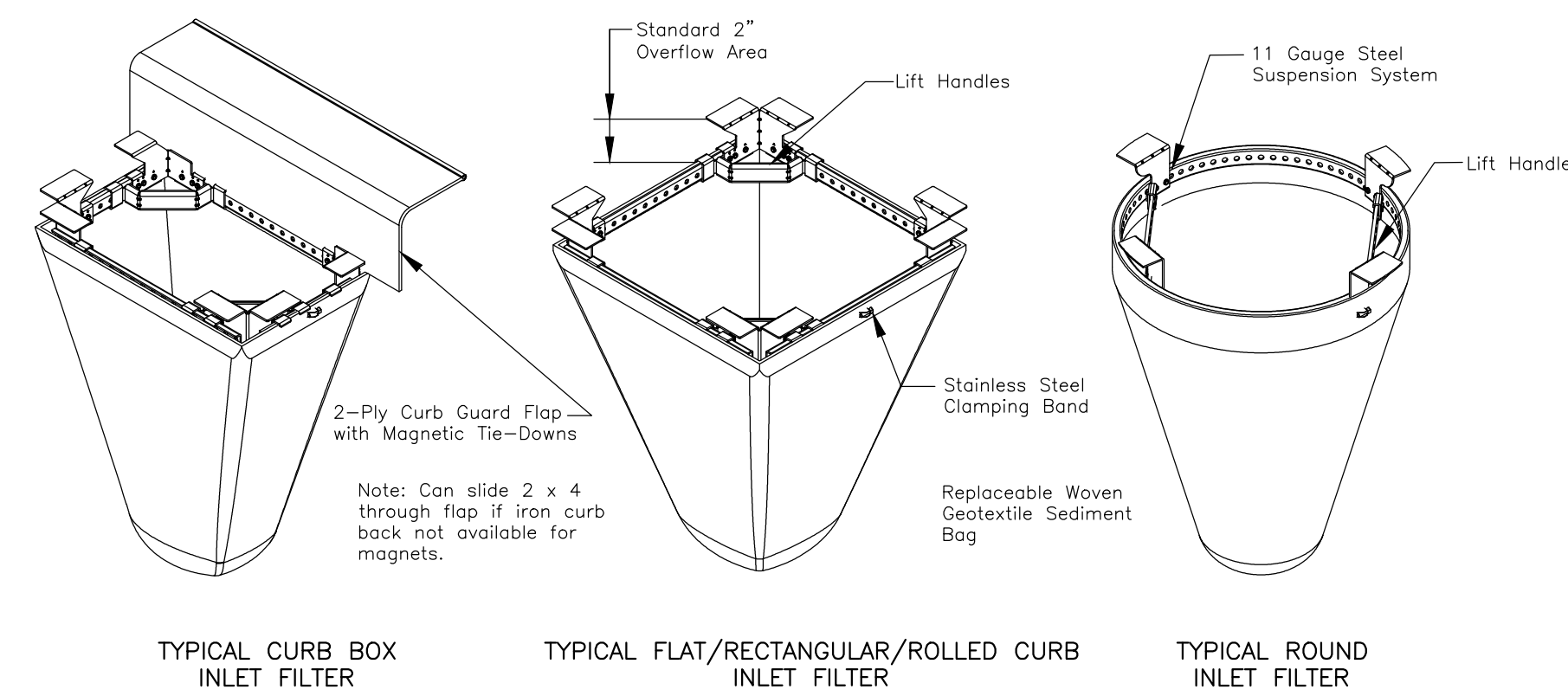
Total Volume at Station 14+50.00	
Cut Area	36.55
Fill Area	0.06
Cut Vol	62.97
Fill Vol	0.42

Total Volume at Station 11+00.00	
Cut Area	39.58
Fill Area	0.00
Cut Vol	65.17
Fill Vol	0.42

Total Volume at Station 12+50.00	
Cut Area	34.58
Fill Area	0.04
Cut Vol	63.81
Fill Vol	0.14

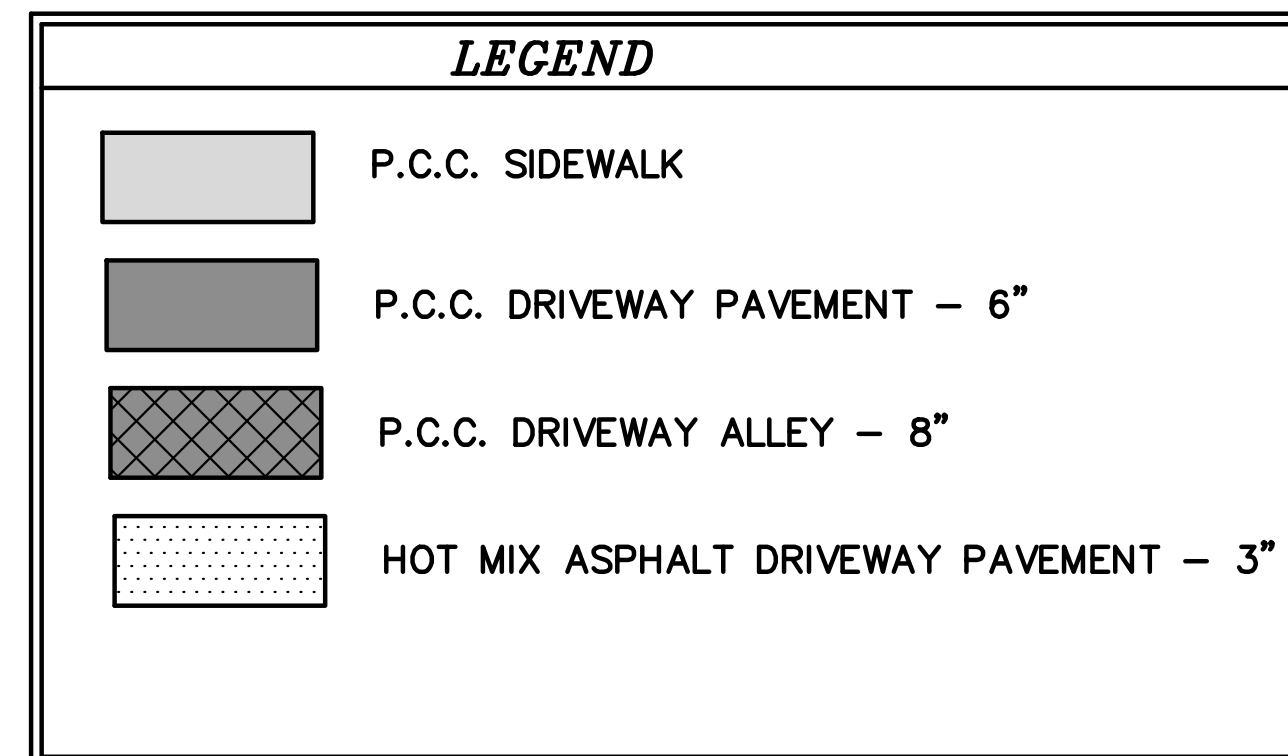
Total Volume at Station 14+00.00	
Cut Area	31.45
Fill Area	0.40
Cut Vol	57.83
Fill Vol	1.18

GENERAL NOTES



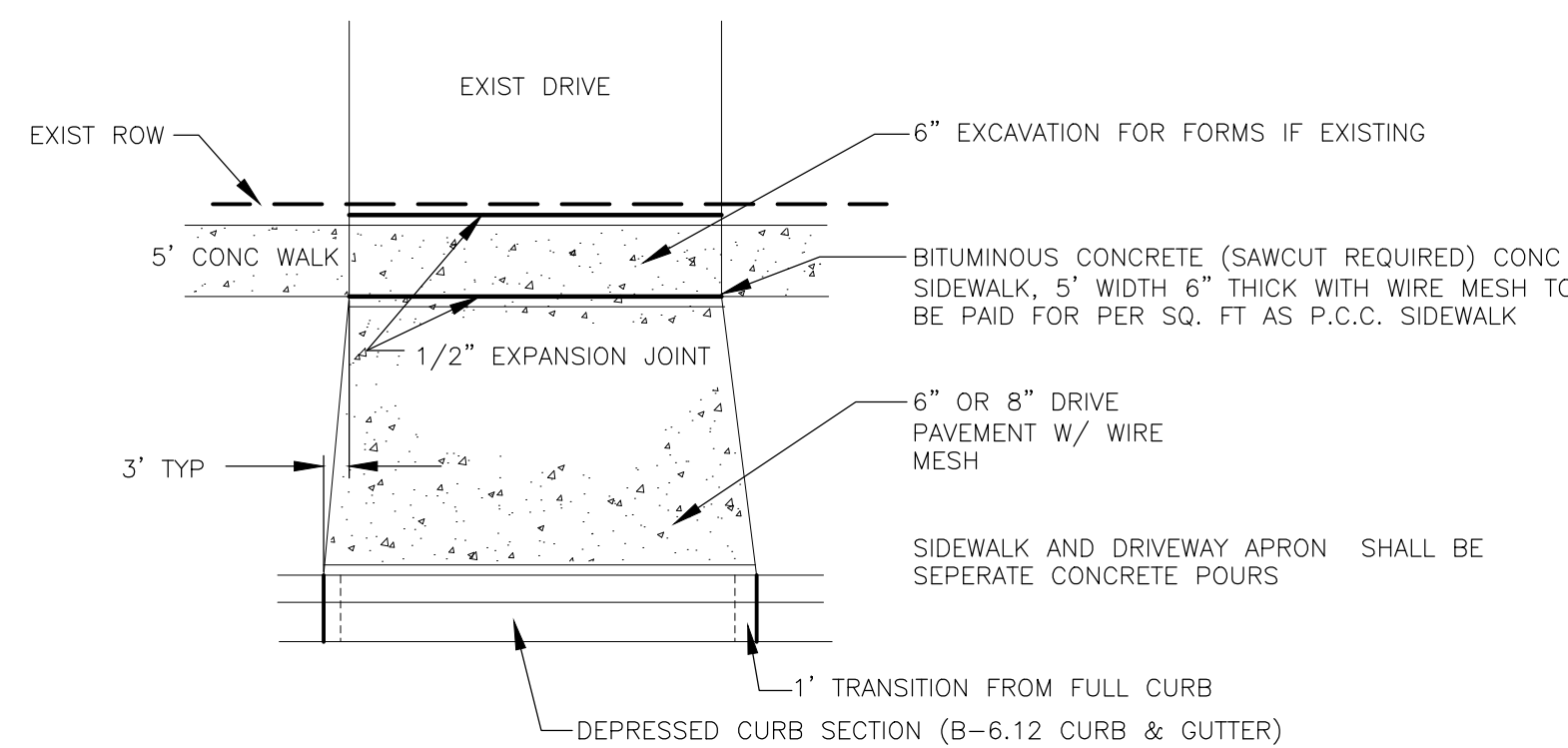
- Materials:**
 1. Framing - 11 gauge steel; corrosion resistant
 2. Sediment Bag - Woven Geotextile (Type FF or approved alternate); 2 cubic ft. volume; Stainless Steel locking band securing bag to frame
Installation:
 1. Remove grate
 2. Drop Inlet Filter onto load bearing lip of casting or concrete structure
 3. Replace grate

STORM DRAIN INLET PROTECTION

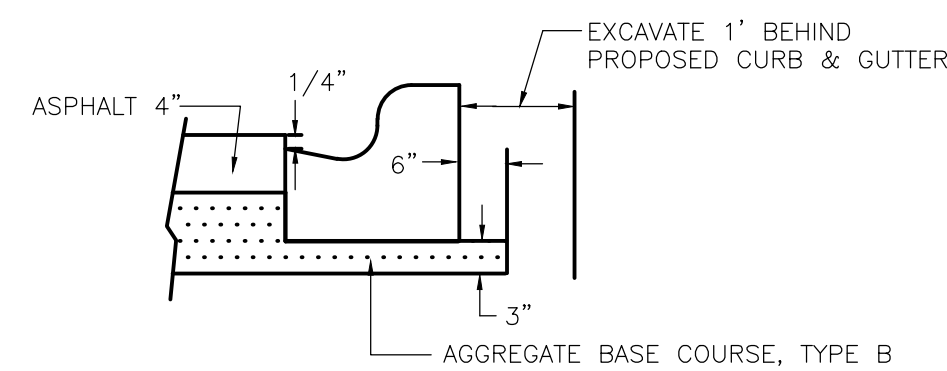


State Standards

000001-06	Symbols & Abbreviations
424001-08	Curb Ramps for Sidewalks
602301-04	Inlet - Type A
604051-04	Frame & Grate Type 11
604056-04	Frame & Grate Type 11V
606001-06	Conc. Curb T-B & Comb Curb & Gutter
701501-06	Urban Lane Closure, 2L, 2W, Undivided
701801-06	Sidewalk, Corner or Crosswalk Closure
701901-05	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

- 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.
- 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 107.31 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 re-location, 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.
- 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 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.
- Trench backfill must be provided under all roadway surfaces and driveways and as directed by the Engineer.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- The cost of the removal and disposal of the asphalt shall be considered incidental to roadway excavation.
- All top of curb (TOC) elevations, excluding depressed curb, are 0.1' above the listed C/L elevations unless otherwise noted.
- All structure rim elevations located in the curb line are top of curb elevations unless otherwise noted.
- 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.
- 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.
- 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.
- 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.
- Sidewalk ramps for the handicapped shall be constructed at locations where existing or proposed sidewalks about 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.
- 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 sub-base 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.
- 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.
- 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 luminaires 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.
- 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.

2016 ROADWAY IMPROVEMENTS
 FRANK AVENUE (CENTER ST. - BROADWAY ST.)
 MFT SEC: 16-00492-00-FP

CHECKED BY: GPR
 DESIGNED BY: MSS
 DRAWN BY: ADR

SCALE: NONE
 DATE: MARCH 2016
 SHEET 10 OF 10

DEPARTMENT OF PUBLIC WORKS
 ILLINOIS 60431

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

