

Engineering Plans  
for  
Village of Algonquin  
Project No. VoA16-02-25B

# Downtown Streetscape Stage 2 Wet Utilities

Located in Sections 27 and 34, Township 43 North, Range 8 East  
Algonquin, McHenry County, Illinois



Village of Algonquin

Village Hall  
2200 Harnish Drive  
Algonquin, IL 60102  
847.658.2700

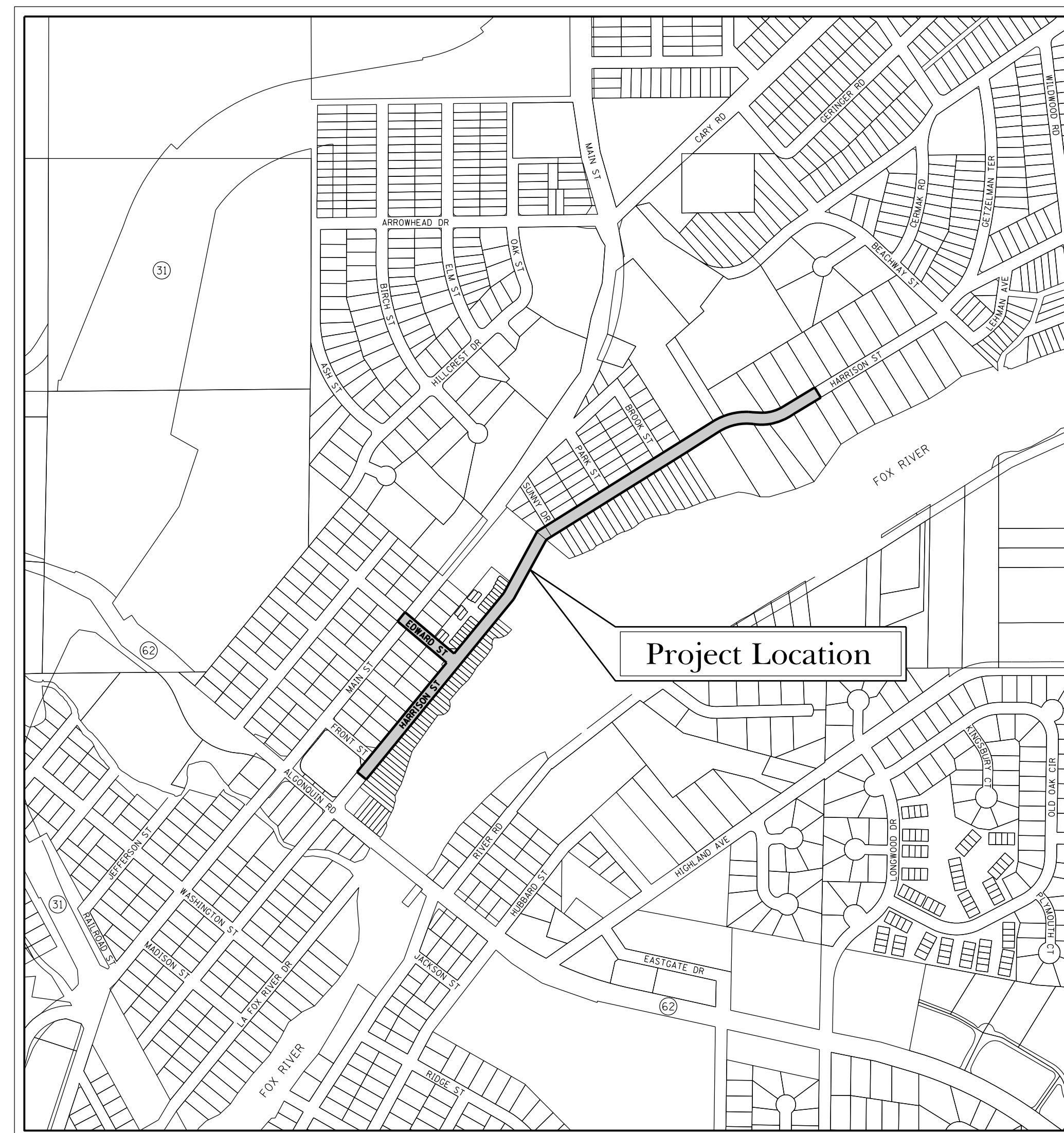
Public Works Department  
110 Meyer Drive  
Algonquin, IL 60102  
847.658.2754

Village Officials

Village President: John Schmitt  
Village Clerk: Jerry Kautz

Trustees

Debby Sosine     Laura Brehmer  
John Spella     Jerry Glogowski  
Jim Steigert     Janis Jasper



Location Map

N.T.S.

Project Length = 3,100 Feet (0.59 Miles)

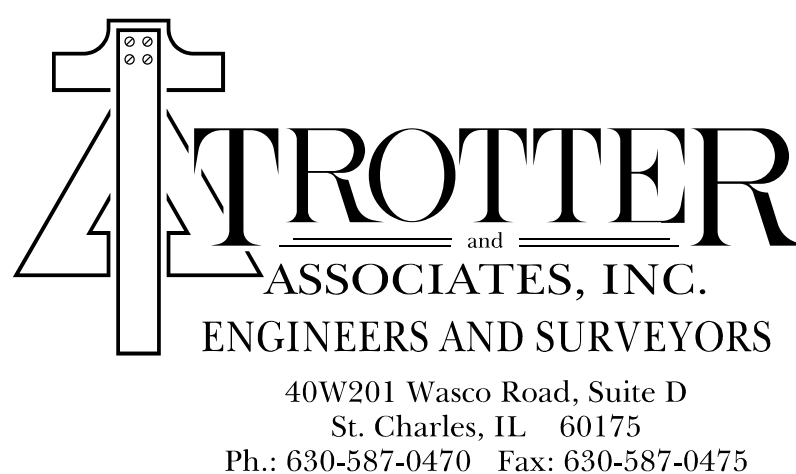
Index of Sheets

- Cover Sheet
- G.1 General Notes & Legend
- G.2 Typical Sections
- G.3 Summary of Quantities
- C.1 Watermain Plan and Profile - Edward Street
- C.2 Storm Sewer Plan and Profile - Edward Street
- C.3 Sanitary Sewer Plan and Profile - Harrison Street Sta 20+00 to Sta 25+00
- C.4 Sanitary Sewer Plan and Profile - Harrison Street Sta 25+00 to Sta 30+00
- C.5 Sanitary Sewer Plan and Profile - Harrison Street Sta 30+00 to Sta 35+00
- C.6 Sanitary Sewer Plan and Profile - Harrison Street Sta 35+00 to Sta 40+00
- C.7 Sanitary Sewer Plan and Profile - Harrison Street Sta 40+00 to Sta 45+00
- C.8 Sanitary Sewer Plan and Profile - Harrison Street Sta 45+00 to Sta 50+00
- C.9 Restoration Plan - Edward Street
- C.10 Restoration Plan - Harrison Street Sta 20+00 to Sta 30+00
- C.11 Restoration Plan - Harrison Street Sta 30+00 to Sta 40+00
- C.12 Restoration Plan - Harrison Street Sta 40+00 to Sta 50+00
- C.13-C.20 Details
- C.21 Detour Plan - Stage 1
- C.22 Detour Plan - Stage 2
- P.1 Lift Station "C" Modifications
- P.2 Lift Station "D" Decommissioning

ELEVATION BENCHMARKS - DATUM: NAVD '88 ('99 GEOID)  
Provided by Others - Coordinate with the Village of Algonquin

NO.	DESCRIPTION	ELEV.
AJ2945	NCS MONUMENT-METAL ROD WITH 6" LOGO CAP LOCATED AT THE NORTHEAST CORNER OF HARNISH DR. AND SAWMILL LN. EAST OF VILLAGE HALL ENTRANCE	897.16
OSBM 11-50	THE NORTHWEST CORNER OF CONC. PAD TO SIGNAL CONTROL BOX AT THE NORTHEAST CORNER OF HARRISON ST. AND ALGONQUIN RD.	736.56
OSBM 15-50	SQUARE CUT AT INTERSECTION WALKS AT SOUTHEAST CORNER OF WASHINGTON ST. & MAIN ST.	740.06
OSBM 15-51	SQUARE CUT ON NORTHWEST CORNER OF BRIDGE WALL ON EASTERLY SIDE OF HARRISON ST. NORTH OF CRYSTAL CREEK OPPOSITE ADDRESS *20	740.20
OSBM 15-52	NORTHWESTLY CORNER OF FIRST STEP UP @ ADDRESS *213 ON EASTERLY SIDE OF HARRISON ST.	736.91
OSBM 15-53	CORNER OF TOP STEP UP @ ADDRESS *315 ON EASTERLY SIDE OF HARRISON ST. SOUTH OF WASHINGTON ST.	738.07
OSBM 16-1	SQUARE CUT ON NORTHEAST CORNER OF STONE CAP OF SHELL GAS SIGN AT NORTHWEST CORNER OF ALGONQUIN RD. & MAIN ST.	742.47
OSBM 16-2	NORTHWEST CORNER OF CONC. STOOP TO HOUSE *309 MAIN ST. APPROX. 140'± NORTH OF EDWARD ST.	748.16
OSBM 16-3	LARGE SPIKE IN UTILITY POLE WITH LIGHT JUST NORTH OF RIVERVIEW AV. ON EAST SIDE OF MAIN ST.	792.81
OSBM 16-4	SPIKE IN UTILITY POLE WITH LIGHT - FIFTH POLE SOUTH OF CARY RD. ON EAST SIDE OF MAIN ST.	835.84
OSBM 16-5	SQUARE CUT ON MOST NORTH CORNER OF CONC. PAD OF TEL BOX AT NORTHWEST CORNER OF MAIN ST. & ARROWHEAD DR.	867.24
OSBM 16-6	SQUARE CUT ON LIGHT POLE BASE AT SOUTHEAST CORNER OF ROUTE 31 & MAIN ST.	876.69

PLANS PREPARED BY:



Know what's below.  
Call before you dig.

NOTE:  
THE CONTRACTOR SHALL BE RESPONSIBLE FOR DISTRIBUTING COMPLETE SETS OF THESE PLANS AND PROJECT SPECIFICATIONS TO ALL SUB CONTRACTORS INVOLVED IN THIS PROJECT. A COMPLETE COPY OF THESE PLANS AND PROJECT SPECIFICATIONS SHALL BE IN THE POSSESSION OF THE CONTRACTOR AND ALL SUB CONTRACTORS ON THE PROJECT AT ALL TIMES.

I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED UNDER MY DIRECT SUPERVISION.  
DATED AT ST. CHARLES, ILLINOIS, THIS 18<sup>th</sup> DAY OF April, 2019

*Terry M. Heitkamp*  
TERRY HEITKAMP, P.E. TROTTER AND ASSOCIATES, INC.  
ILLINOIS REGISTERED PROFESSIONAL ENGINEER NO. 062-058718 / EXPIRATION DATE 11-30-2019  
ILLINOIS DEPARTMENT OF PROFESSIONAL REGULATION FIRM NUMBER 184-002148



Issued for Construction: August 23, 2019

General Construction Notes

- 1. ALL PAVING, EARTHWORK AND STORM SEWER CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION IN ILLINOIS (SSRBC), CURRENT EDITION, AND ALL SUPPLEMENTS AND REVISIONS THERETO; THE PROJECT SPECIFICATIONS AND/OR SPECIAL PROVISIONS; THESE CONSTRUCTION PLANS; AND THE STANDARD SPECIFICATIONS OF THE OWNER.
2. ALL SANITARY SEWER AND WATER MAIN CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS, CURRENT EDITION, AND ALL SUPPLEMENTS AND REVISIONS THERETO; THE PROJECT SPECIFICATIONS AND/OR SPECIAL PROVISIONS; THESE CONSTRUCTION PLANS; AND THE STANDARD SPECIFICATIONS OF THE OWNER.
3. CODES OF THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY TITLE 35, AND ALL PERTINENT O.S./H.A. REGULATIONS SHALL BE ADHERED TO FOR THE CONSTRUCTION OF THIS PROJECT.
...
19. SHOULD CONSTRUCTION PROCESSES REQUIRE THE TEMPORARY REMOVAL OF STREET SIGNS, THE CONTRACTOR SHALL NOTIFY THE VILLAGE OF ALGONQUIN PUBLIC WORKS DEPARTMENT AT 847-658-2700 FOR REMOVAL.

Traffic Control and Protection

- 1. ALL TRAFFIC CONTROL DEVICES AND PRACTICES SHALL BE IN ACCORDANCE WITH THE ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS (MUTCD), CURRENT EDITION, AND ALL SUPPLEMENTS AND REVISIONS THERETO; THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION IN ILLINOIS (SSRBC), CURRENT EDITION, AND ALL SUPPLEMENTS AND REVISIONS THERETO; THE PROJECT SPECIFICATIONS AND/OR SPECIAL PROVISIONS; THESE CONSTRUCTION PLANS; AND THE STANDARD SPECIFICATIONS OF THE OWNER.
2. CONTRACTOR SHALL FURNISH THE NAME OF THE INDIVIDUAL RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF THE TRAFFIC CONTROL FOR THIS PROJECT. THE TRAFFIC CONTROL CONTRACTOR SHALL PROVIDE A PHONE NUMBER WHICH CAN BE UTILIZED FOR 24 HOUR EMERGENCY MAINTENANCE OF THE TRAFFIC CONTROL FACILITIES.
...
5. SPECIAL SIGNAGE AS PROVIDED BY THE OWNER SHALL BE MAINTAINED BY THE CONTRACTOR.

Paving and Street Construction

- 1. ALL PAVING AND STREET CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION IN ILLINOIS (SSRBC), CURRENT EDITION, AND ALL SUPPLEMENTS AND REVISIONS THERETO; THE PROJECT SPECIFICATIONS AND/OR SPECIAL PROVISIONS; THESE CONSTRUCTION PLANS; AND THE STANDARD SPECIFICATIONS OF THE OWNER.
2. CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF ALL REQUIRED PERMITS FOR CONSTRUCTION ALONG OR ACROSS EXISTING STREETS OR HIGHWAYS. ARRANGEMENTS SHALL BE MADE FOR THE PROPER BRACING, SHORING AND OTHER REQUIRED PROTECTION OF ALL ROADWAYS BEFORE CONSTRUCTION BEGINS. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE STREETS OR ROADWAYS AND ASSOCIATED STRUCTURES AND SHALL MAKE REPAIRS AS NECESSARY TO THE SATISFACTION OF THE ENGINEER AND THE OWNER.
...
10. ALL UTILITY STRUCTURE ADJUSTMENTS NECESSARY SHALL BE MADE WITH PRECAST CONCRETE ADJUSTING RINGS NOT TO EXCEED A MAXIMUM OF EIGHT (8) INCHES OVERALL IN HEIGHT. BITUMASTIC MATERIAL SHALL BE USED ON ALL JOINTS BETWEEN THE PRECAST ELEMENTS. AFTER FINAL ADJUSTMENTS HAVE BEEN MADE, ALL JOINTS IN PRECAST STRUCTURES SHALL BE MORTARED. THE MORTAR SHALL BE COMPOSED OF ONE PART CEMENT TO THREE PARTS SAND, BY VOLUME, BASED ON DRY MATERIALS AND SHALL BE THOROUGHLY WETTED BEFORE LAYING.

Earthwork, Excavation and Grading

- 1. ALL EARTHWORK, EXCAVATION AND GRADING SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION IN ILLINOIS, LATEST EDITION, AND ALL SUPPLEMENTS AND REVISIONS THERETO; WITH THE PROJECT SPECIFICATIONS AND/OR SPECIAL PROVISIONS; THESE CONSTRUCTION PLAN AND WITH THE STANDARD SPECIFICATIONS OF THE OWNER.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND OR SURFACE UTILITIES EVEN THOUGH THEY MAY NOT BE SHOWN ON THE PLANS. ANY UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER AND ENGINEER.
...
8. SHOULD EXCAVATION TAKE PLACE ADJACENT TO A LIGHT OR POWER POLE, CONTRACTOR SHALL BRACE THE POLE SO AS TO AVOID DAMAGE TO THE POLE OR ANY OF THE COMPONENTS IT SUPPORTS AT NO ADDITIONAL COST TO THE CONTRACT.

Sanitary Sewer System

SANITARY SEWER SYSTEM SHALL BE CONSTRUCTED TO MEET ILLINOIS ENVIRONMENTAL PROTECTION AGENCY (IEPA), STANDARD SPECIFICATIONS FOR SEWER AND WATER MAIN CONSTRUCTION IN ILLINOIS, LATEST EDITION AND OTHER APPLICABLE REQUIREMENTS. THE DESIGN SHALL INCORPORATE THE MORE STRINGENT REQUIREMENTS OF THE FOLLOWING ITEMS OR AGENCY REQUIREMENTS:

- 1. EACH SINGLE-FAMILY LOT OR EACH BUILDING IN OTHER THAN SINGLE-FAMILY DEVELOPMENT SHALL BE SERVED WITH A SEPARATE SANITARY SEWER SERVICE. ALL STRUCTURES SHALL INCLUDE PROVISIONS FOR AN OVERHEAD SEWER SYSTEM.
2. ALL NEW BUILDINGS SHALL INCLUDE PROVISIONS FOR AN OVERHEAD SEWER SYSTEM, UNLESS OTHERWISE APPROVED BY THE UTILITIES SUPERINTENDENT OR DIRECTOR OF PUBLIC WORKS.
3. MANHOLES ARE TO BE PROVIDED AT EACH CHANGE IN DIRECTION OF FLOW, CHANGE IN PIPE SIZE, CHANGE IN SLOPE, CHANGE IN MATERIAL AND AT EACH PIPE INTERSECTION, EXCLUDING SERVICES. MAXIMUM MANHOLE SPACING IS THREE HUNDRED (300) FEET, WHERE FEASIBLE. THE SANITARY SEWER SYSTEM SHALL BE INSTALLED TO THE RIGHT OF THE SERVICE LINE. SANITARY SEWERS TO BE INSTALLED WITHIN THE RIGHT-OF-WAY SHALL NOT BE PLACED MORE THAN EIGHT FEET FROM EDGE OF PAVEMENT. COMMERCIAL & INDUSTRIAL STRUCTURES REQUIRE AN INSPECTION MANHOLE ON THE SERVICE LINE BETWEEN THE WYE INTO THE MAIN AND THE BUILDING, PREFERABLY WITHIN 10 FEET OF THE BUILDING AND IN AN ACCESSIBLE AREA, IF AN EXTERNAL GREASE TRAP IS USED. THE MANHOLE MUST BE DOWNSTREAM OF THE GREASE TRAP & DOWNSTREAM OF THE SERVICE LINE.
...
12. LEAKAGE TESTING OF MANHOLES SHALL BE IN ACCORDANCE WITH ASTM C-969 OR ASTM C-1244.

Water System

WATER MAIN SYSTEMS SHALL BE CONSTRUCTED TO MEET ILLINOIS ENVIRONMENTAL PROTECTION AGENCY, STANDARD SPECIFICATIONS FOR SEWER AND WATER MAIN CONSTRUCTION IN ILLINOIS, LATEST EDITION AND OTHER APPLICABLE AGENCY REQUIREMENTS. THE DESIGN SHALL INCORPORATE THE MORE STRINGENT REQUIREMENTS OF THE FOLLOWING ITEMS OR AGENCY REQUIREMENTS. ONLY EMPLOYEES FROM THE VILLAGE OF ALGONQUIN ARE AUTHORIZED TO OPERATE VALVES CONNECTED TO THE VILLAGE WATER SYSTEM. IEPA PERMIT IS REQUIRED PRIOR TO CONSTRUCTION OR EXTENSION OF THE WATER SYSTEM

- 1. THE MINIMUM SIZE WATER MAIN TO BE INSTALLED IS EIGHT INCHES (8") IN DIAMETER.
2. ALL WATER MAINS SHALL BE DUCTILE IRON PIPE (DIP), CEMENT LINED, CLASS 52, AWWA C-151.
3. VALVES UP TO 12" SHALL BE OPEN LEFT RESILIENT WEDGE GATE VALVES "MUELLER A-2360 OR APPROVED EQUAL; INSTALLATION INTERVALS SHALL NOT EXCEED 1000 FEET OR AS DIRECTED BY THE VILLAGE ENGINEER. IT SHALL NOT REQUIRE MORE THAN THREE VALVES TO ISOLATE A SINGLE LOCATION WITHIN THE DISTRIBUTION SYSTEM. VALVES 16" AND LARGER SHALL BE BUTTERFLY TYPE AS MANUFACTURED BY PRATT OR PRECAST OF ALGONQUIN APPROVED EQUAL.
...
13. CHLORINATING OF THE WATER MAIN AND COLLECTION OF SAFE WATER SAMPLES SHALL BE IN ACCORDANCE WITH IEPA REQUIREMENTS AND COMPLETED PRIOR THE INSTALLATION OF SERVICE TAPS.

Water and Sewer Separation

- 1. HORIZONTAL SEPARATION BETWEEN WATERMANS AND SEWERS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 41-2.01A OF THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS:
A. WATERMANS SHALL BE LOCATED AT LEAST TEN (10) FEET HORIZONTAL FROM ANY EXISTING OR PROPOSED DRAIN, STORM SEWER, SANITARY SEWER, COMBINED SEWER OR SEWER SERVICE CONNECTION.
B. WATERMANS MAY BE LOCATED CLOSER THAN TEN (10) FEET TO A SEWER LINE WHEN:
a) LOCAL CONDITIONS PREVENT A LATERAL SEPARATION OF 10 FEET; AND
b) THE WATERMAIN INVERT IS AT LEAST 18 INCHES ABOVE OF THE CROWN OF THE SEWER; AND
c) THE WATERMAIN IS EITHER IN A SEPARATE TRENCH OR IN THE SAME TRENCH ON AN UNDISTURBED EARTH SHELF LOCATED TO ONE SIDE OF THE SEWER.
...
4. CONSTRUCTION OF WATERMAIN QUALITY PIPE SHALL EXTEND ON EACH SIDE OF THE CROSSING UNTIL THE PERPENDICULAR DISTANCE FROM THE WATERMAIN TO THE SEWER OR DRAIN IS AT LEAST TEN (10) FEET.

Table with columns: Drainage, Existing, Proposed. Lists items like CONTOUR MAJOR (5'), CONTOUR MINOR (1'), STORM SEWER, WETLAND, CATCH BASIN, DOWNSPOUT, FLARED END SECTION, INLET, STORM MANHOLE, Utility Lines (CABLE TV, COMBINED SEWER, ELECTRIC, FIBER OPTIC, FORCEMAIN, GAS, OIL, OVERHEAD WIRE, SANITARY SEWER, SANITARY SERVICE, TELEPHONE, WATER SERVICE, WATERMAIN).

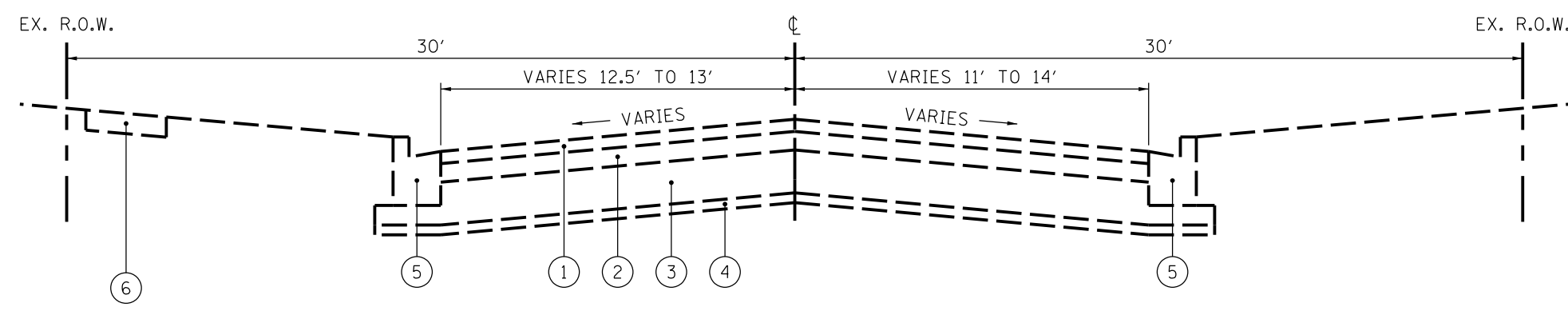
Table with columns: Utility Structures, Existing, Proposed. Lists items like AC UNIT, BUFFALO BOX, CLEANOUT, CABLE TV SPLICE BOX, ELECTRIC METER, ELECTRIC SPLICE BOX, ELECTRIC VAULT / MANHOLE, FIRE HYDRANT, GAS METER, GAS REGULATOR, GAS VALVE, HANDHOLE, DOUBLE HANDHOLE, LIFT STATION, POWER POLE, POWER POLE WITH TRANSFORMER, SANITARY MANHOLE, TELEPHONE JUNCTION BOX, TELEPHONE POLE, TELEPHONE SPLICE BOX, ELECTRIC TRANSFORMER, UNDERGROUND ELECTRIC VAULT/MANHOLE, UNDERGROUND GAS VAULT/MANHOLE, UNDERGROUND TELEPHONE VAULT/MANHOLE, VALVE BOX, VALVE VAULT.

Table with columns: Miscellaneous / Other, Existing, Proposed. Lists items like FENCE, LIGHT POLE, MAILBOX, SIGN, TREE - DECIDUOUS, TREE - EVERGREEN, SHRUB / BUSH, STUMP.

Table with columns: Utility Structure and Pipe Notation. Shows notation for SANITARY MANHOLE (1, TYPE A-1-C, 4' DIA, STA. 102+50, 18.0' LT, RIM: 725.50, 8" PVC (N): 715.50, 8" PVC (S): 715.40) and SANITARY SEWER (8" PVC SDR-26, 100 LF @ 0.40%, 25 CY TBF).

NOTE: RIM ELEVATION, STATION/OFFSET AND/OR COORDINATES FOR UTILITY STRUCTURES ARE TAKEN AT THE CENTER OF THE LID/RIM. RIM ELEVATION, STATION/OFFSET AND/OR COORDINATES FOR UTILITY STRUCTURES LOCATED WITHIN CURB & GUTTER ARE TAKEN AT THE BACK (TOP) OF CURB.

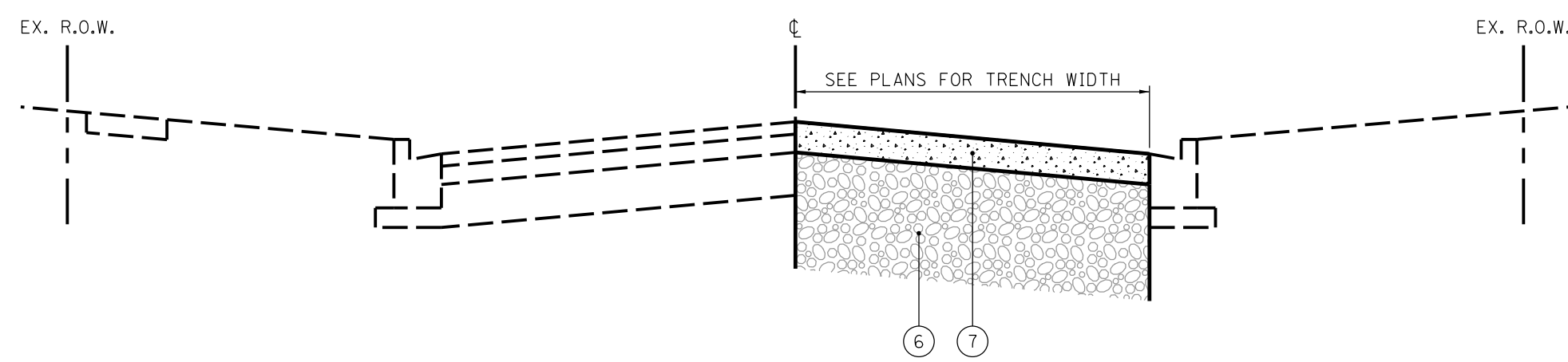
Vertical sidebar containing project information: PROJECT NAME, PROJECT MANAGER, ENGINEER, DRAFTER, CHECKER, DESIGNER, ESTIMATOR, SUPERVISOR, PROJECT NO., SHEET FILE, ISSUE DATE, SCALE, SHEET NUMBER. Includes logo for Z. TROTTER ASSOCIATES, INC. ENGINEERS AND SURVEYORS, located at 4052011 W. Lake Road, Suite D, St. Charles, IL 60155. Phone: 630-587-4400, Fax: 630-587-4475. Issued for construction on 8/23/19.



- ① EXISTING ASPHALT SURFACE COURSE
- ② EXISTING ASPHALT BINDER COURSE
- ③ EXISTING CONCRETE BASE COURSE
- ④ EXISTING GRANULAR BASE COURSE
- ⑤ EXISTING COMBINATION CONCRETE CURB AND GUTTER
- ⑥ EXISTING SIDEWALK

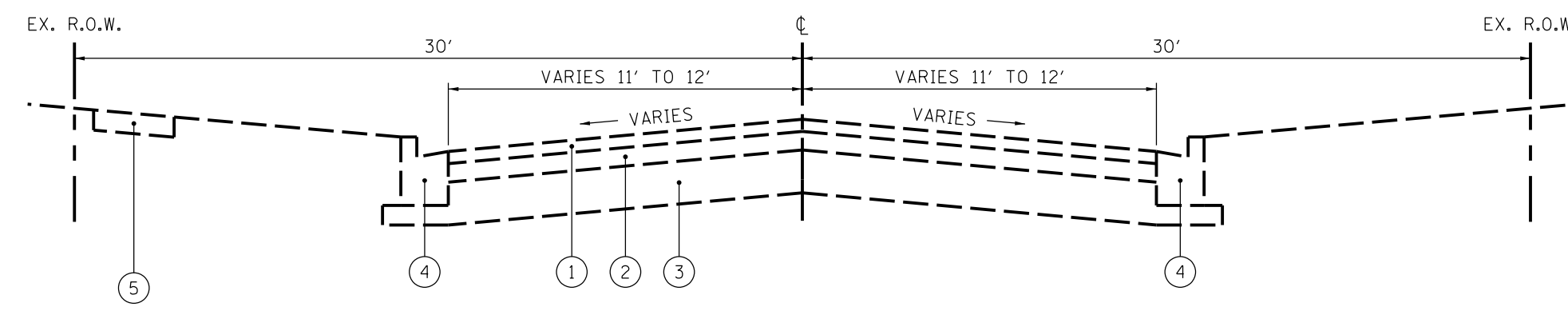
REFER TO GEOTECHNICAL REPORT WITHIN PROJECT SPECIFICATIONS FOR EXISTING CONDITIONS

Existing Typical Section - Edward Street



- ⑥ TRENCH BACKFILL, SPECIAL (CA-6)
- ⑦ PAVEMENT REMOVAL, SPECIAL AND 6" PCC PATCH

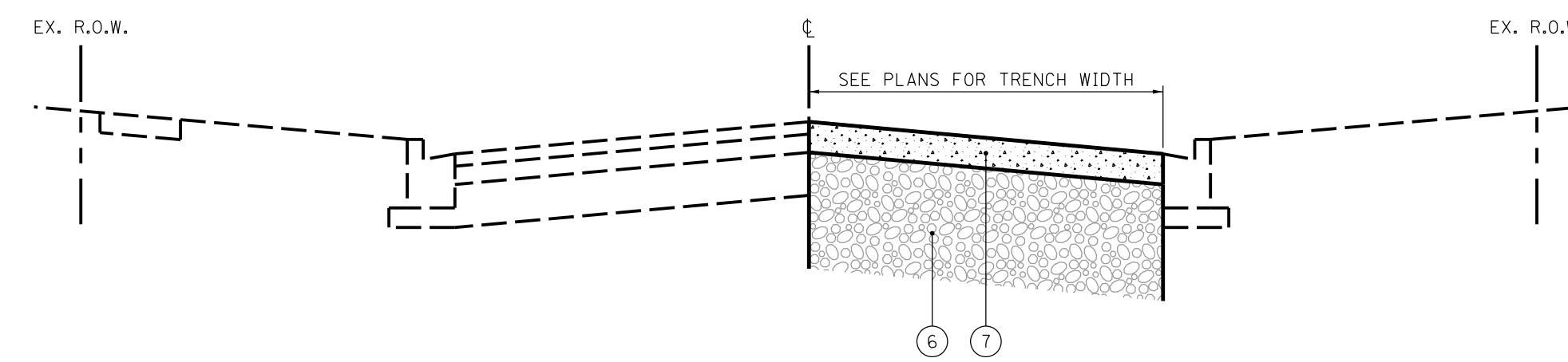
Proposed Typical Section - Edward Street



- ① EXISTING ASPHALT SURFACE COURSE
- ② EXISTING ASPHALT BINDER COURSE
- ③ EXISTING GRANULAR BASE COURSE
- ④ EXISTING COMBINATION CONCRETE CURB AND GUTTER
- ⑤ EXISTING SIDEWALK

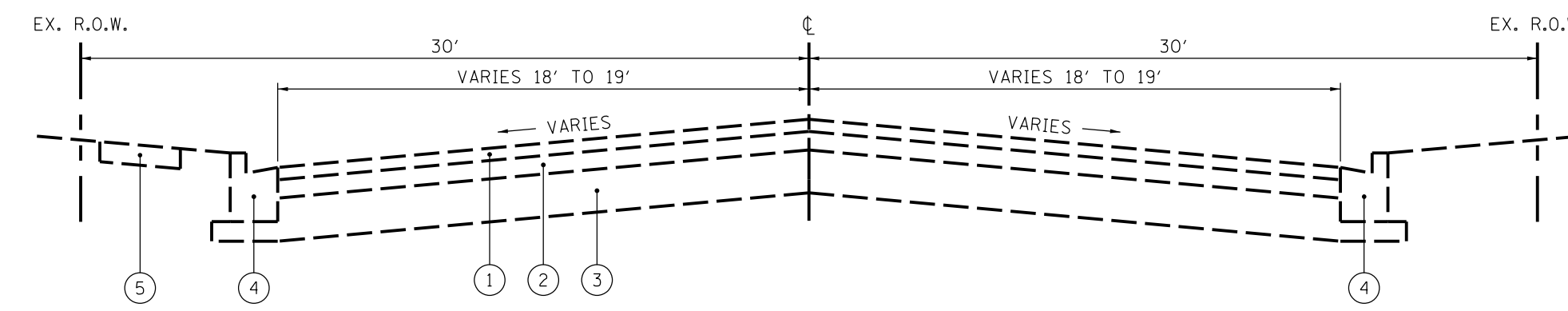
REFER TO GEOTECHNICAL REPORT WITHIN PROJECT SPECIFICATIONS FOR EXISTING CONDITIONS

Existing Typical Section - Harrison Street  
HMA Pavement Sta 21+60 to Sta 32+46



- ⑥ TRENCH BACKFILL, SPECIAL (CA-6)
- ⑦ PAVEMENT REMOVAL, SPECIAL AND 6" PCC PATCH

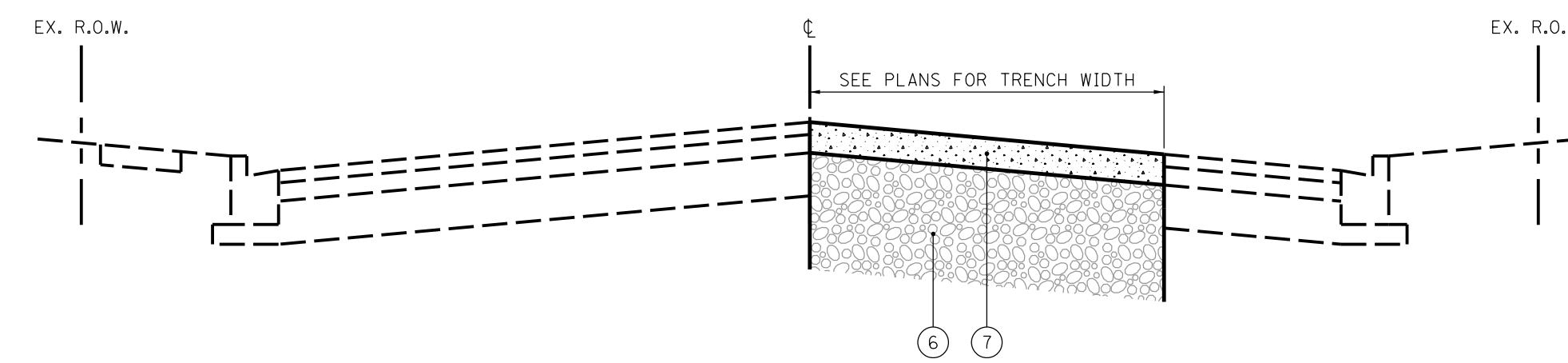
Proposed Typical Section - Harrison Street  
HMA Pavement Sta 21+60 to Sta 32+46



- ① EXISTING ASPHALT SURFACE COURSE
- ② EXISTING ASPHALT BINDER COURSE
- ③ EXISTING GRANULAR BASE COURSE
- ④ EXISTING COMBINATION CONCRETE CURB AND GUTTER
- ⑤ EXISTING SIDEWALK

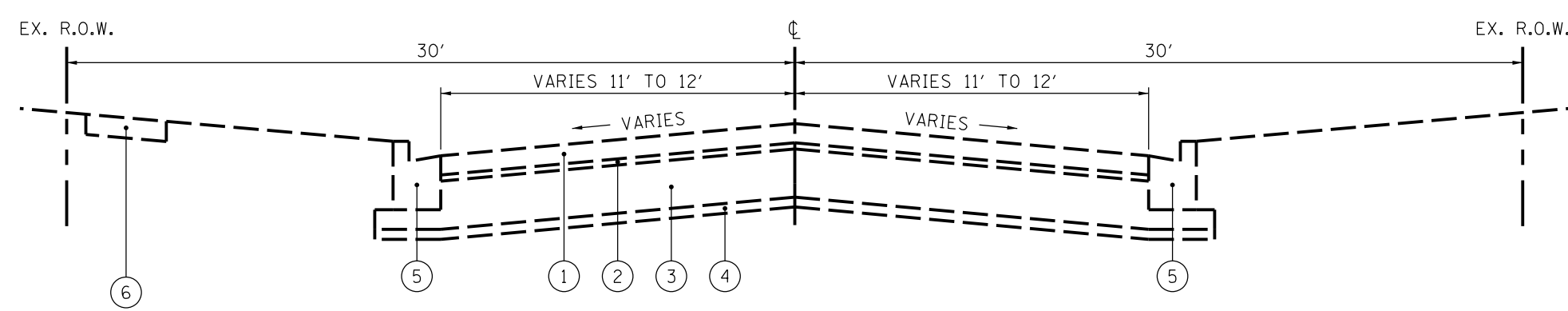
REFER TO GEOTECHNICAL REPORT WITHIN PROJECT SPECIFICATIONS FOR EXISTING CONDITIONS

Existing Typical Section - Harrison Street  
HMA Pavement w/ On-Street Parking Sta 21+60 to Sta 32+46



- ⑥ TRENCH BACKFILL, SPECIAL (CA-6)
- ⑦ PAVEMENT REMOVAL, SPECIAL AND 6" PCC PATCH

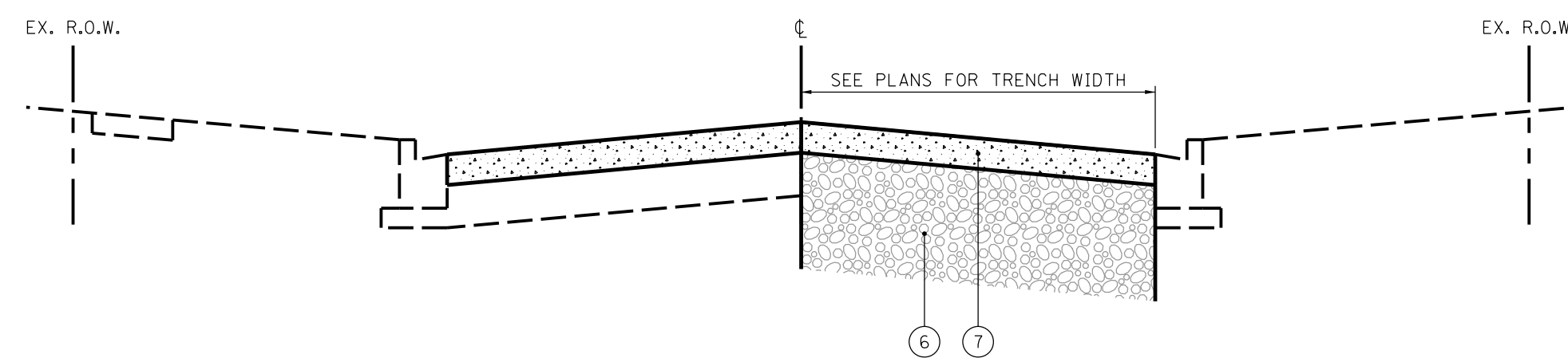
Proposed Typical Section - Harrison Street  
HMA Pavement w/ On-Street Parking Sta 21+60 to Sta 32+46



- ① EXISTING BRICK PAVEMENT
- ② EXISTING SAND BASE COURSE
- ③ EXISTING CONCRETE BASE COURSE
- ④ EXISTING GRANULAR BASE COURSE
- ⑤ EXISTING COMBINATION CONCRETE CURB AND GUTTER
- ⑥ EXISTING SIDEWALK

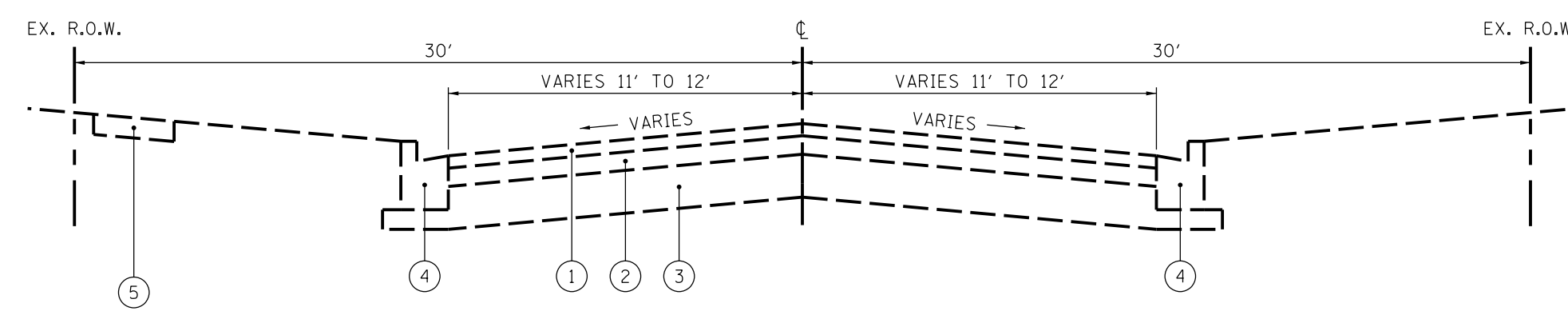
REFER TO GEOTECHNICAL REPORT WITHIN PROJECT SPECIFICATIONS FOR EXISTING CONDITIONS

Existing Typical Section - Harrison Street  
Brick Pavement Sta 21+60 to Sta 32+46



- ⑥ TRENCH BACKFILL, SPECIAL (CA-6)
- ⑦ BRICK PAVEMENT REMOVAL AND 6" PCC PATCH

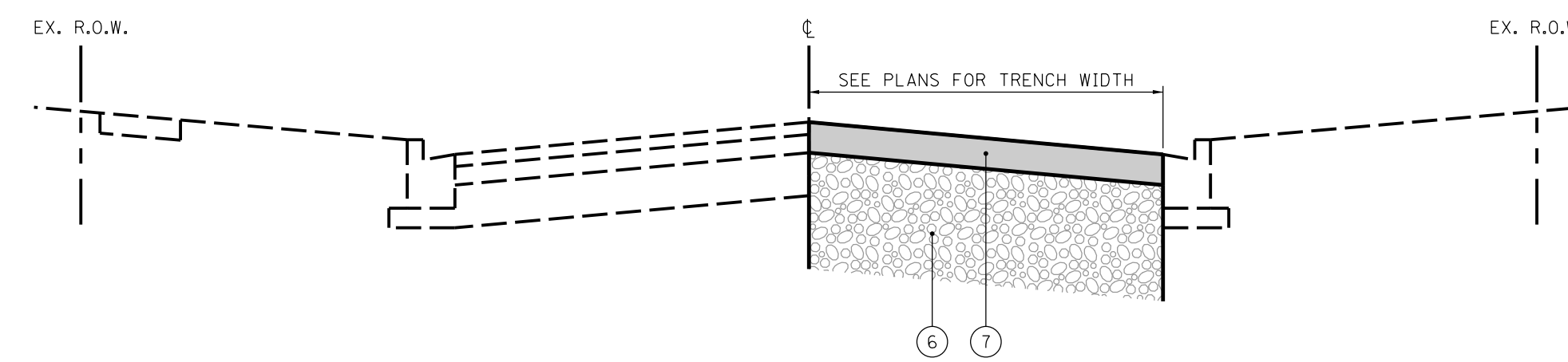
Proposed Typical Section - Harrison Street  
Brick Pavement Sta 21+60 to Sta 32+46



- ① EXISTING ASPHALT SURFACE COURSE
- ② EXISTING ASPHALT BINDER COURSE
- ③ EXISTING GRANULAR BASE COURSE
- ④ EXISTING COMBINATION CONCRETE CURB AND GUTTER
- ⑤ EXISTING SIDEWALK

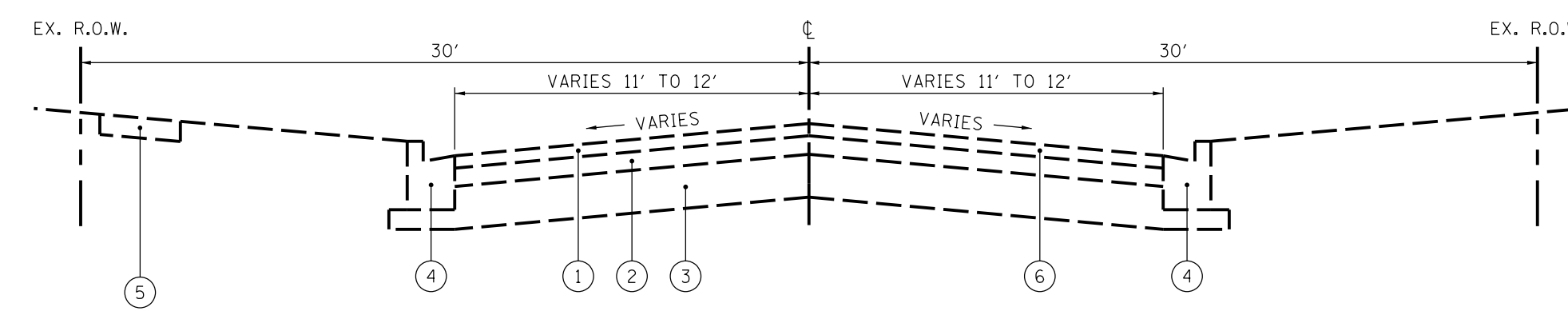
REFER TO GEOTECHNICAL REPORT WITHIN PROJECT SPECIFICATIONS FOR EXISTING CONDITIONS

Existing Typical Section - Harrison Street  
HMA Pavement Sta 32+46 to Sta 39+67



- ⑥ TRENCH BACKFILL, SPECIAL (CA-6)
- ⑦ PAVEMENT REMOVAL, SPECIAL AND 4" HMA PATCH

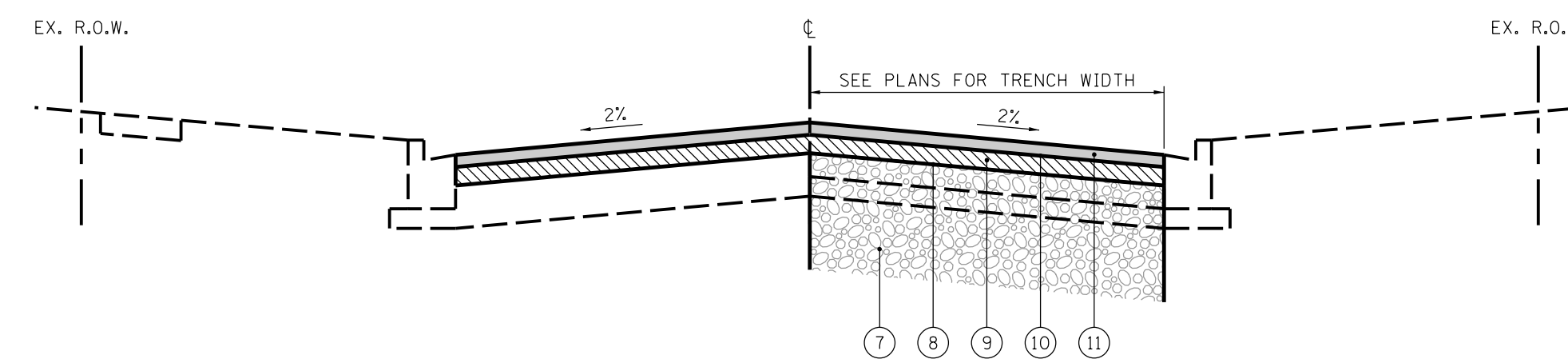
Proposed Typical Section - Harrison Street  
HMA Pavement Sta 32+46 to Sta 39+67



- ① EXISTING ASPHALT SURFACE COURSE
- ② EXISTING ASPHALT BINDER COURSE
- ③ EXISTING GRANULAR BASE COURSE
- ④ EXISTING COMBINATION CONCRETE CURB AND GUTTER
- ⑤ EXISTING SIDEWALK
- ⑥ PAVEMENT REMOVAL, SPECIAL

REFER TO GEOTECHNICAL REPORT WITHIN PROJECT SPECIFICATIONS FOR EXISTING CONDITIONS

Existing Typical Section - Harrison Street  
Sta 39+67 to Sta 49+50

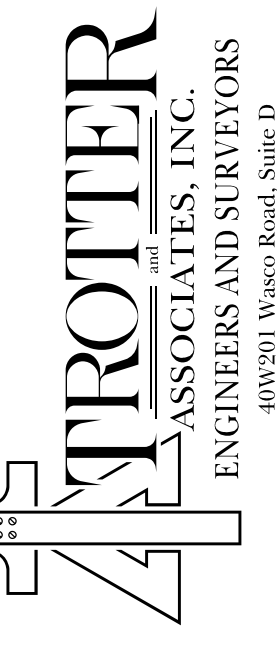


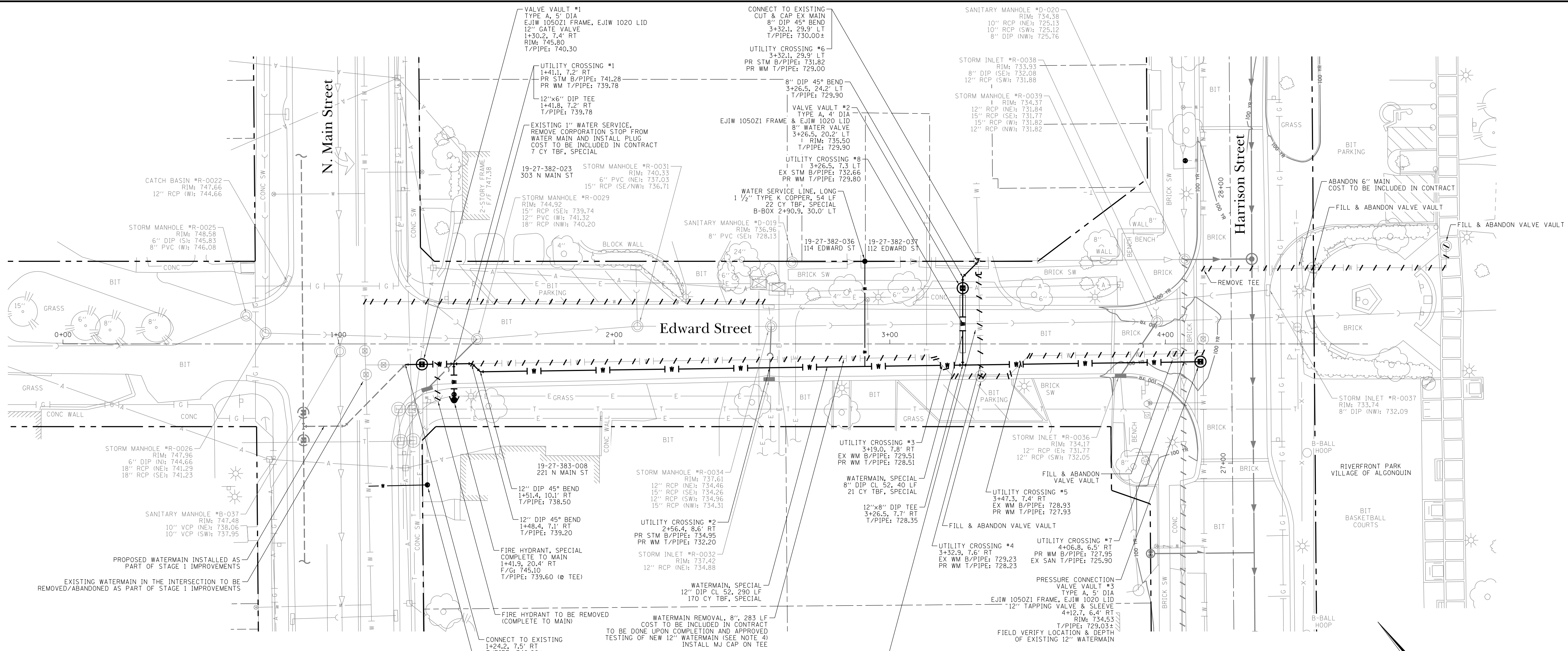
- ⑦ TRENCH BACKFILL, SPECIAL (CA-6)
- ⑧ BITUMINOUS MATERIALS (PRIME COAT), SPECIAL
- ⑨ HOT MIX ASPHALT BINDER COURSE, IL-19.0, N50, 2 1/2"
- ⑩ BITUMINOUS MATERIALS (TACK COAT)
- ⑪ HOT MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1 1/2"

Proposed Typical Section - Harrison Street  
Sta 39+67 to Sta 49+50

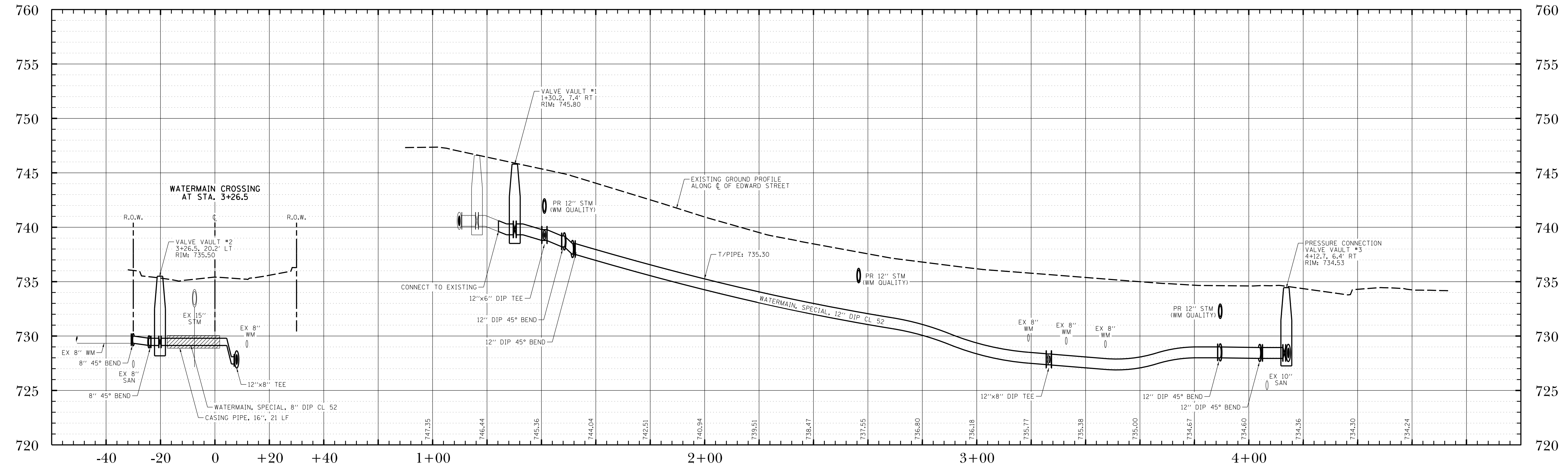
DATE		REVISIONS		ISSUE		PROJECT STAFF		PROJECT MANAGER		ENGINEER		ENGINEER		TECHNICIAN		TECHNICIAN		ISSUED FOR CONSTRUCTION		
																				8/23/19
 <b>TROTTER ASSOCIATES, INC.</b> ENGINEERS AND SURVEYORS 40501 Wood Road, Suite D St. Charles, IL 60175 Ph: (630) 587-0101 • Fax: (630) 587-0105																				
<b>Downtown Streetscape Stage 2 Wet Utilities</b>  <b>Typical Sections</b>  <b>Algonquin, McHenry County, Illinois</b>																				
Project No.: ALG028C-1																				
Base File:																				
Sheet File: G.2.dgn																				
Issue Date: 8/23/2019																				
Scale: N.T.S.																				
Sheet Number																				
G.2																				

SUMMARY OF QUANTITIES			
ITEM NO	DESCRIPTION	QUANTITY	UNIT
1	AGGREGATE BASE REPAIR	100	CY
2	BITUMINOUS MATERIALS (TACK COAT)	6188	LB
3	BITUMINOUS MATERIALS (PRIME COAT), SPECIAL	1237	LB
4	BLOCK RETAINING WALL REMOVAL AND REPLACEMENT	350	SF
5	BRICK PAVEMENT REMOVAL	734	SY
6	BYPASS PUMPING	1	L SUM
7	CASING PIPE, 16"	21	LF
8	CURB & GUTTER REMOVAL, SPECIAL	456	LF
9	CURB & GUTTER REMOVAL & REPLACEMENT, SPECIAL	590	LF
10	DECOMMISSION AND ABANDON EXISTING LIFT STATION	1	L SUM
11	DRIVEWAY PAVEMENT REMOVAL	1,226	SY
12	DUST CONTROL WATERING	100	DAY
13	EXPLORATORY TRENCH, SPECIAL	200	LF
14	FERTILIZER	30.3	LB
15	FILL & ABANDON SANITARY MANHOLE	9	EA
16	FILL & ABANDON VALVE VAULTS	5	EA
17	FIRE HYDRANT TO BE REMOVED (COMPLETE TO MAIN)	1	EA
18	FIRE HYDRANT, SPECIAL, COMPLETE TO MAIN	1	EA
19	HMA BINDER COURSE, IL-19.0, N50	385	TON
20	HMA DRIVEWAY, SPECIAL	324	SY
21	HMA SURFACE COURSE, MIX "C", N30	239	TON
22	HMA SURFACE REMOVAL - BUTT JOINT	93	SY
23	INLET FILTER BASKETS	25	EA
24	METER RISER BOX & HYDRANT	1	EA
25	MOBILIZATION	1	L SUM
26	MODIFY LIFT STATION	1	L SUM
27	PAINT PAVEMENT MARKING - LINE 4"	3,232	LF
28	PAINT PAVEMENT MARKING - LINE 24"	13	LF
29	PATCHING, HMA 4"	1,074	SY
30	PATCHING, PCC 6"	2,324	SY
31	PAVEMENT REMOVAL, SPECIAL	5,404	SY
32	PCC DRIVEWAY, SPECIAL, 6"	879	SY
33	PCC SIDEWALK REMOVAL & REPLACEMENT	689	SF
34	REMOVE AND DISPOSE OF NON-HAZARDOUS SPECIAL WASTE OR CERTIFIED NON-SPECIAL WASTE	100	CY
35	REMOVE AND REPLACE BUFFALO BOX	15	EA
36	REMOVE AND REPLACE BUFFALO BOX & CURB STOP	2	EA
37	REMOVE AND REPLACE FIRE HYDRANT	3	EA
38	REMOVE AND REPLACE LINEAR DRIVEWAY DRAIN	32	LF
39	REMOVE AND RESET MAILBOX	1	EA
40	REMOVE METER VAULT	1	EA
41	ROCK EXCAVATION, SPECIAL	20	CY
42	SANITARY DROP MANHOLE, 5' DIAMETER, TYPE 1 FRAME, CLOSED LID	4	EA
43	SANITARY FORCE MAIN ABANDONMENT, 8"	330	LF
44	SANITARY MANHOLE, TYPE A, 4' DIAMETER, TYPE 1 FRAME, CLOSED LID	1	EA
45	SANITARY MANHOLE, TYPE A, 5' DIAMETER, TYPE 1 FRAME, CLOSED LID	7	EA
46	SANITARY MANHOLE, TYPE A, 5' DIAMETER, NEENAH R-1916 C	2	EA
47	SANITARY SERVICE, SPECIAL, 6" PVC SDR-26	1,033	LF
48	SANITARY SEWER ABANDONMENT, 6"	356	LF
49	SANITARY SEWER ABANDONMENT, 8"	237	LF
50	SANITARY SEWER ABANDONMENT, 10"	1,274	LF
51	SANITARY SEWER ABANDONMENT, 12"	261	LF
52	SANITARY SEWER, SPECIAL, 8" PVC SDR-26	35	LF
53	SANITARY SEWER, SPECIAL, 10" PVC SDR-26	7	LF
54	SANITARY SEWER, SPECIAL, 12" PVC SDR-26	24	LF
55	SANITARY SEWER, SPECIAL, 24" PVC DR-25	1,016	LF
56	SANITARY SEWER, SPECIAL, 30" PVC DR-25	1,752	LF
57	SAW AND SEAL	40	EA
58	SEED	0.17	ACRE
59	SIDEWALK REMOVAL WITH TEMPORARY PCC REPLACEMENT	1,063	SF
60	STORM INLET, TYPE A, 2' DIA., TYPE 11V FRAME AND GRATE	3	EA
61	STORM SEWER, CLASS A, TYPE 1, 12", RCP ASTM C-361	447	LF
62	STORM SEWER, CLASS A, TYPE 1, 15", RCP ASTM C-361	36	LF
63	STORM SEWER, CLASS A, TYPE 1, 36", RCP ASTM C-361	32	LF
64	STORM SEWER POINT REPAIR	2	EA
65	STRUCTURES TO BE ADJUSTED	6	EA
66	TAPPING VALVES AND SLEEVES, 12"	1	EA
67	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	1,859	LF
68	TOPSOIL FURNISH AND PLACE, 6"	808	SY
69	TRAFFIC CONTROL & PROTECTION, SPECIAL	1	L SUM
70	TREE PROTECTION	4	EA
71	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	28	UNIT
72	TREES, AMELANCHIER LAEVIS (ALLEGHENY SERVICEBERRY), 2"	7	EA
73	TREES, CERCIS CANADENSIS (EASTERN REDBUD), 2"	7	EA
74	TRENCH BACKFILL, SPECIAL	6,664	CY
75	TURF EROSION CONTROL BLANKET	808	SY
76	VALVE VAULT, TYPE A, 4' DIA., EAST JORDAN 105021 FRAME, EAST JORDAN 1020 LID	1	EA
77	VALVE VAULT, TYPE A, 5' DIA., EAST JORDAN 105021 FRAME, EAST JORDAN 1020 LID	2	EA
78	WATER MAIN, SPECIAL, 8", DUCTILE IRON	40	LF
79	WATER MAIN, SPECIAL, 12", DUCTILE IRON	290	LF
80	WATER SERVICE LINE, 1-1/2", LONG	4	EA
81	WATER SERVICE LINE, 1-1/2", SHORT	2	EA
82	WATER VALVES, 8"	1	EA
83	WATER VALVES, 12"	1	EA

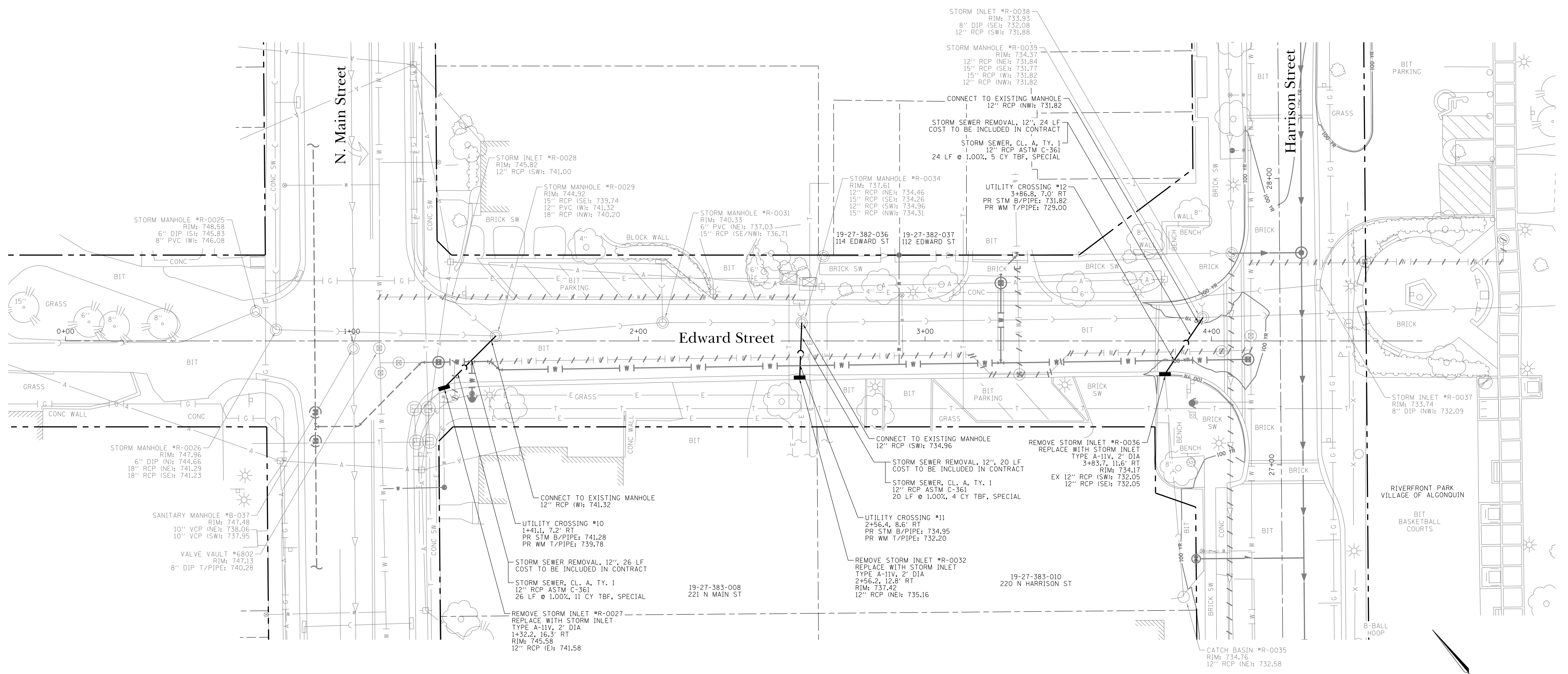
PROJECT STAFF		PROJECT MANAGER: SCOTT BROTHERS, P.E. ENGINEER: TERRY BETHUNE, P.E. ENGINEER: [blank] ENGINEER: [blank] TECHNICIAN: [blank] TECHNICIAN: [blank]	ISSUE	REVISIONS	DATE
PROJECT MANAGER: [blank] ENGINEER: [blank] ENGINEER: [blank] TECHNICIAN: [blank] TECHNICIAN: [blank]					ISSUED FOR CONSTRUCTION
 <b>TROTTER ASSOCIATES, INC.</b> <b>ENGINEERS AND SURVEYORS</b> 4050 N. Wood Road, Suite D St. Charles, IL 60175 Ph: 630.587.0700 • Fax: 630.587.0715					
<b>Downtown Streetscape Stage 2 Wet Utilities</b> <b>Summary of Quantities</b> <b>Algonquin, McHenry County, Illinois</b>					
Project No.: ALG028C-1		Base File:			
Sheet File: G.3.dgn		Issue Date: 8/23/2019			
Scale: N.T.S.		Sheet Number			
<b>G.3</b>					



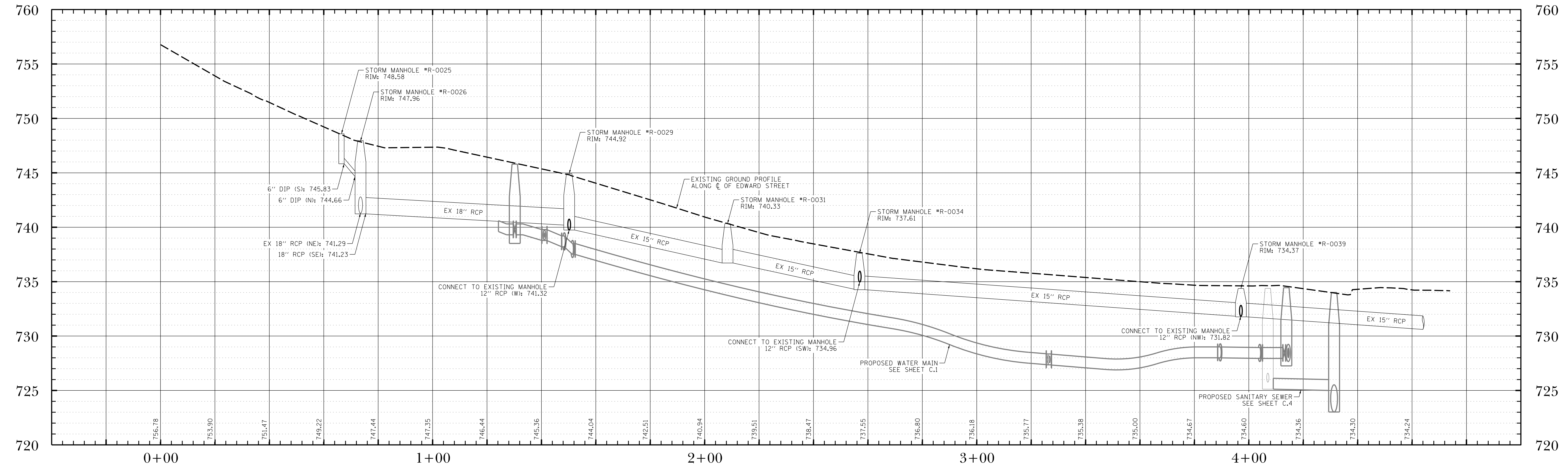
- NOTES:**
- CONTRACTOR TO LOCATE EXISTING UNDERGROUND UTILITIES, INCLUDING WATER AND SANITARY SERVICES, AT ALL CROSSINGS WITH THE PROPOSED WATERMAIN PRIOR TO CONSTRUCTING THE WATERMAIN. THE CONTRACTOR SHALL COORDINATE ANY NECESSARY CHANGES WITH THE ENGINEER IF THE EXISTING UTILITY WILL BE IN CONFLICT WITH THE PROPOSED WATERMAIN.
  - CONTRACTOR SHALL COORDINATE FINAL B-BOX LOCATIONS AND WATER SERVICE CONNECTIONS WITH ENGINEER AND VILLAGE OF ALGONQUIN PUBLIC WORKS DEPARTMENT.
  - FOR NEW WATER SERVICES WHERE EXISTING B-BOX IS NOT SHOWN ON PLANS, CONTRACTOR SHALL LOCATE EXISTING B-BOX AND COORDINATE PROPOSED B-BOX LOCATION AND SERVICE CONNECTION WITH ENGINEER.



DATE	8/23/19
ISSUE	0.
PROJECT STAFF	PROJECT MANAGER: SCOTT BROWNE, P.E. ENGINEER: TERRY DITTMAR, P.E. ENGINEER: JAMES WILSON TECHNICIAN: MIKE WILSON TECHNICIAN:
REVISIONS	
 <b>TROTTER ASSOCIATES, INC.</b> ENGINEERS AND SURVEYORS 40501 Wood Road, Suite D St. Charles, IL 60175 PH: 630.587.4700 • FAX: 630.587.4715	
<b>Downtown Streetscape Stage 2 Wet Utilities</b> <b>Watermain Plan and Profile</b> <b>Edward Street</b> <b>Algonquin, McHenry County, Illinois</b>	
Project No.:	ALG028C-1
Base File:	
Sheet File:	C1.dgn
Issue Date:	8/23/2019
Scale:	HORIZ: 1" = 20' VERT: 1" = 5'
Sheet Number	C.1



NOTES:  
 1. CONTRACTOR TO LOCATE EXISTING UNDERGROUND UTILITIES, INCLUDING WATER AND SANITARY SERVICES, AT ALL CROSSINGS WITH THE PROPOSED STORM SEWER PRIOR TO CONSTRUCTING THE SEWER. THE CONTRACTOR SHALL COORDINATE ANY NECESSARY CHANGES WITH THE ENGINEER IF THE EXISTING UTILITY WILL BE IN CONFLICT WITH THE PROPOSED STORM SEWER.



Project No. ALG028C-1	
Base File:	
Sheet File: C.2.dgn	
Issue Date: 8/23/2019	
Scale: HORIZ: 1" = 20' VERT: 1" = 5'	
Sheet Number	
<b>C.2</b>	

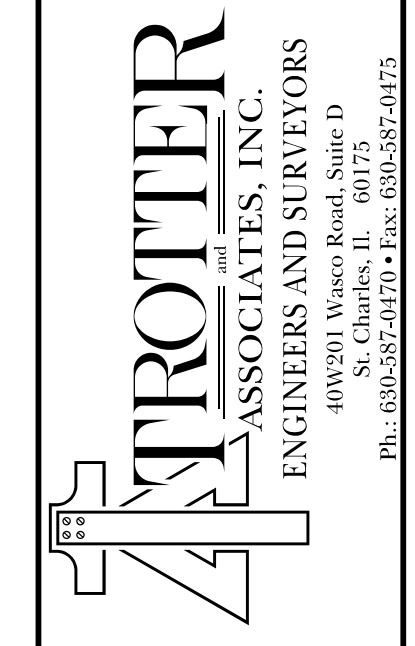
  

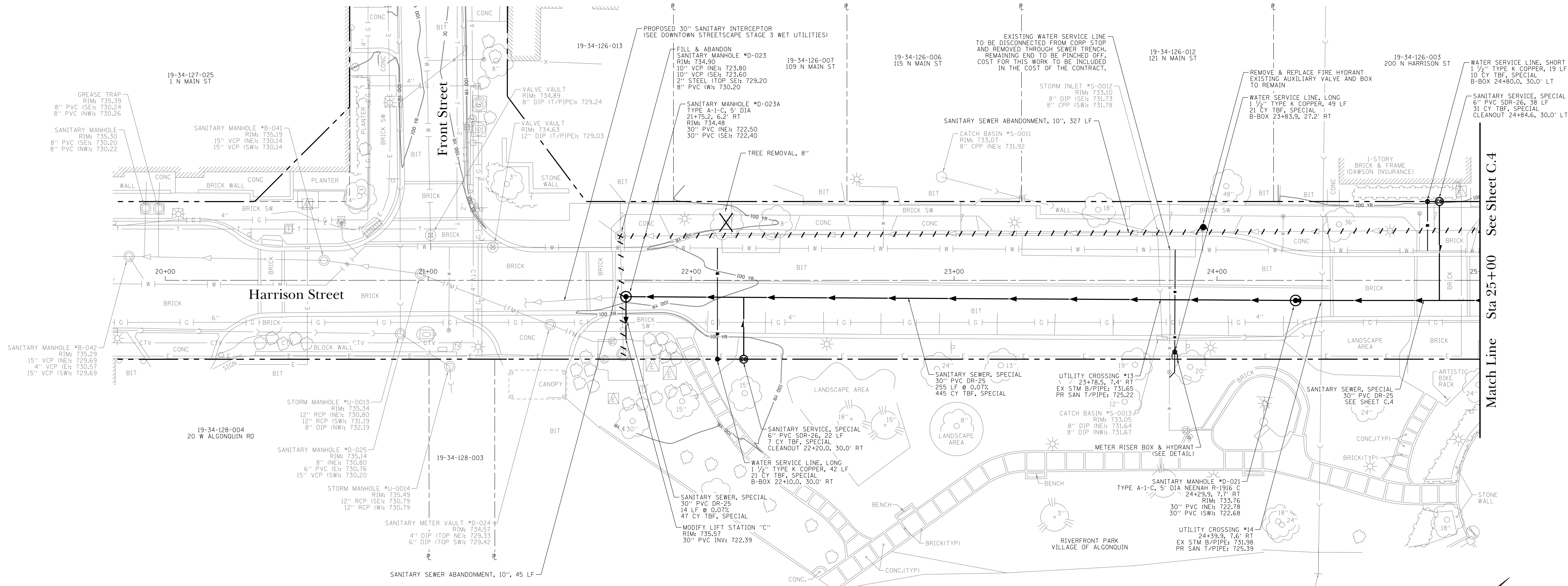
PROJECT MANAGER	SCOTT BROWNE, P.E.
ENGINEER	TERRY BURMAN, P.E.
ENGINEER	ANDREW
TECHNICIAN	MIKE WADSWORTH
TECHNICIAN	

DATE	8/23/19
ISSUE	0
REVISIONS	
ISSUED FOR CONSTRUCTION	

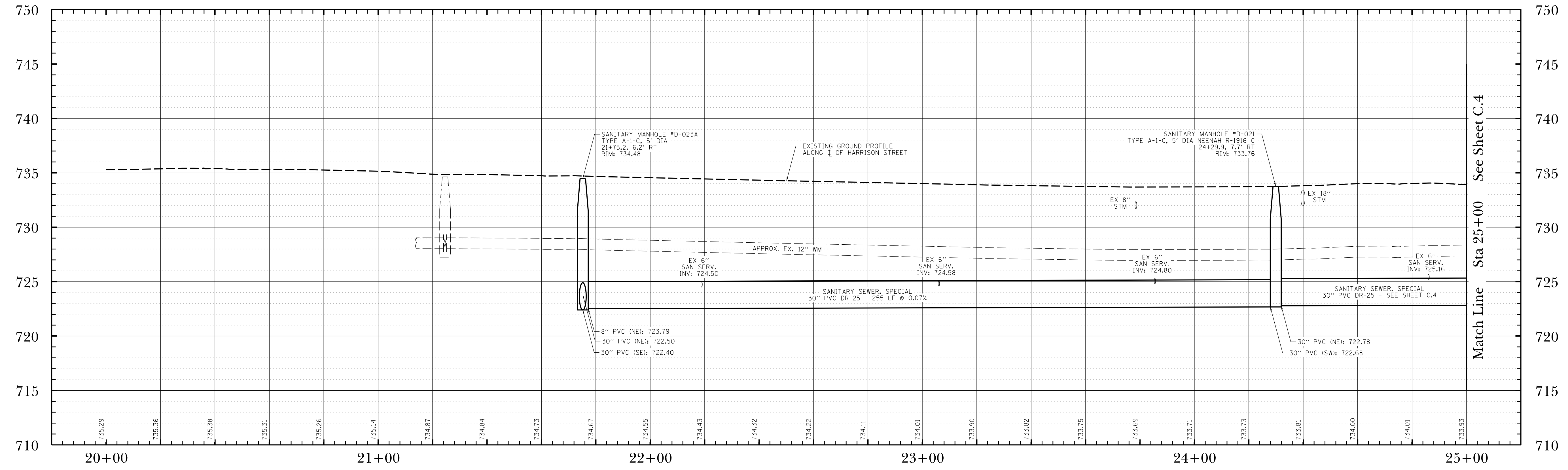
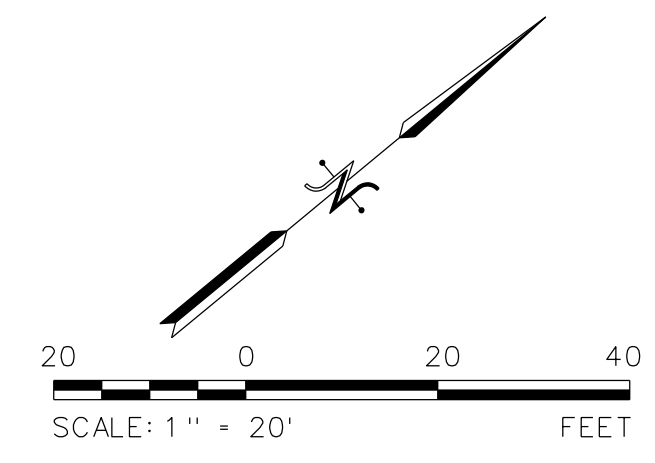
**Downtown Streetscape Stage 2 Wet Utilities**  
**Storm Sewer Plan and Profile**  
**Edward Street**  
**Algonquin, McHenry County, Illinois**



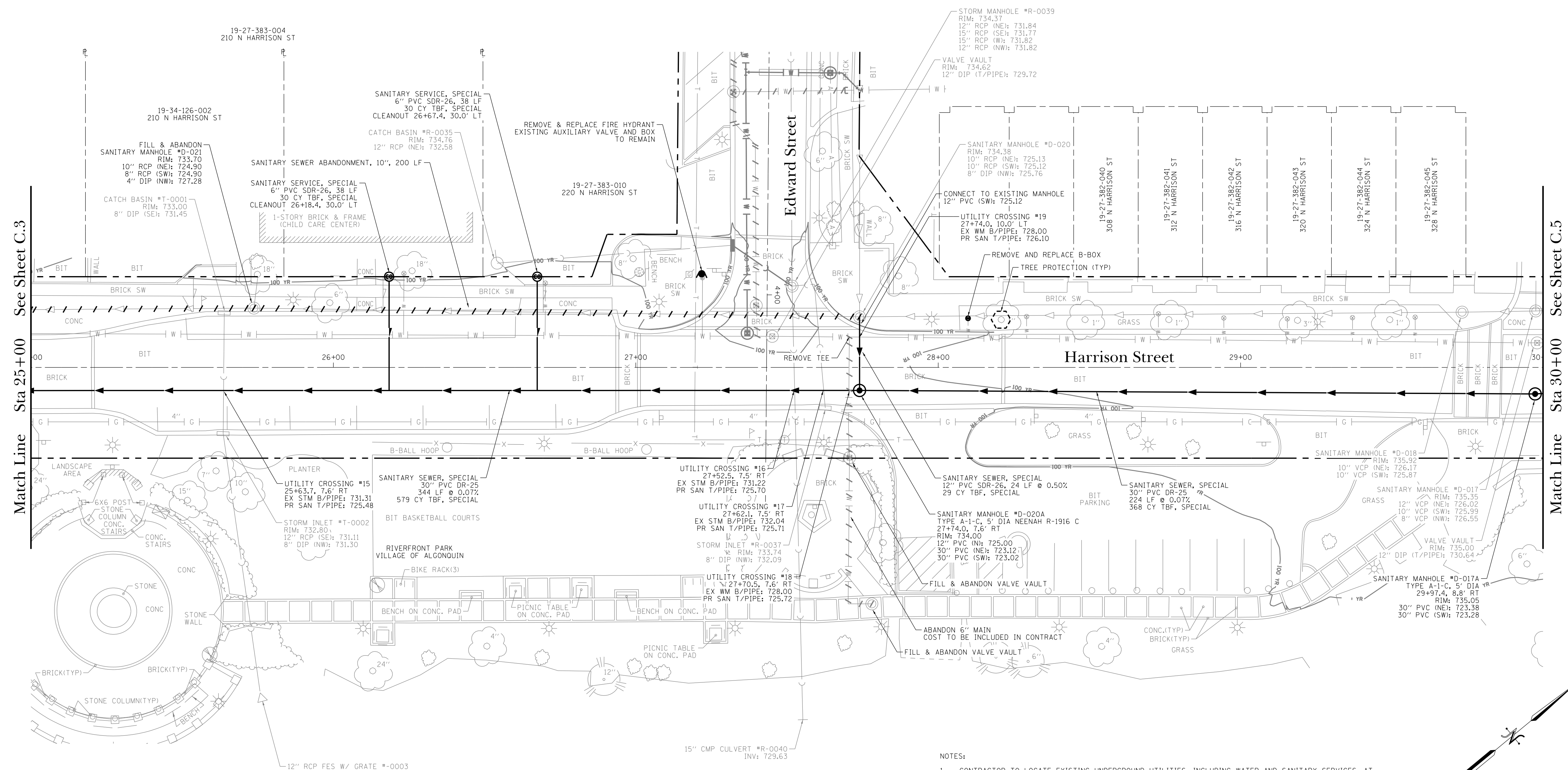


Match Line Sta 25+00 See Sheet C.4

- NOTES:
- CONTRACTOR TO LOCATE EXISTING UNDERGROUND UTILITIES, INCLUDING WATER AND SANITARY SERVICES, AT ALL CROSSINGS WITH THE PROPOSED SEWER PRIOR TO CONSTRUCTING THE SEWER. THE CONTRACTOR SHALL COORDINATE ANY NECESSARY CHANGES WITH THE ENGINEER IF THE EXISTING UTILITY WILL BE IN CONFLICT WITH THE PROPOSED SEWER.
  - CONTRACTOR SHALL COORDINATE FINAL CLEANOUT AND B-BOX LOCATIONS AND SANITARY AND WATER SERVICE CONNECTIONS WITH ENGINEER AND VILLAGE OF ALGONQUIN PUBLIC WORKS DEPARTMENT.
  - EXISTING SANITARY SERVICES AND ELEVATION SHOWN ARE BASED ON SEWER TELEVISION TAPES AND ARE APPROXIMATE. THEY ARE PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR AND MUST BE VERIFIED PRIOR TO CONSTRUCTION.



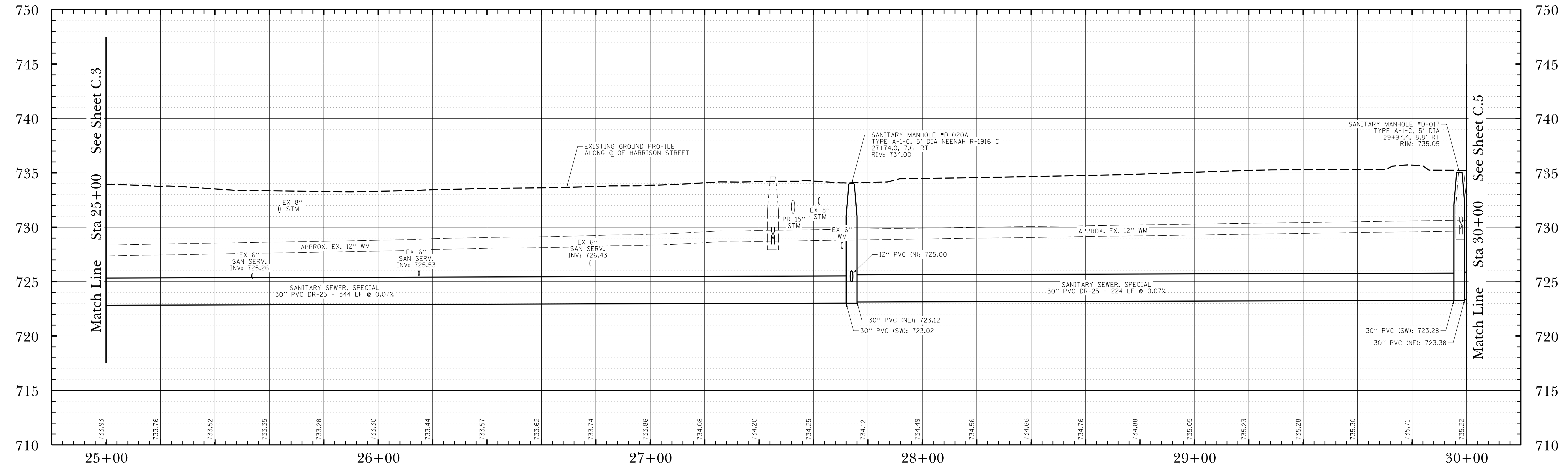
DATE	8/23/19
REVISIONS	
ISSUE	C
PROJECT STAFF	PROJECT MANAGER: SCOTT BROTHERS, P.E. ENGINEER: TERRY DITTMAR, P.E. ENGINEER: JAMES W. WILSON ENGINEER: JAMES W. WILSON TECHNICIAN: JAMES W. WILSON
PROJECT NO.	ALG028C-1
BASE FILE	C.3.dgn
SHEET FILE	C.3.dgn
ISSUE DATE	8/23/2019
SCALE	HORIZ: 1" = 20' VERT: 1" = 5'
SHEET NUMBER	C.3
<b>TROTTER ASSOCIATES, INC.</b> <b>ENGINEERS AND SURVEYORS</b> 40901 W. Wood Road, Suite D St. Charles, IL 60175 PH: 630.587.0100 • FAX: 630.587.0105	
<b>Downtown Streetscape Stage 2 Wet Utilities</b> <b>Sanitary Sewer Plan and Profile</b> <b>Harrison Street Sta 20+00 to Sta 25+00</b> <b>Algonquin, McHenry County, Illinois</b>	



Match Line Sta 25+00 See Sheet C.3

Match Line Sta 30+00 See Sheet C.5

- NOTES:
- CONTRACTOR TO LOCATE EXISTING UNDERGROUND UTILITIES, INCLUDING WATER AND SANITARY SERVICES, AT ALL CROSSINGS WITH THE PROPOSED SEWER PRIOR TO CONSTRUCTING THE SEWER. THE CONTRACTOR SHALL COORDINATE ANY NECESSARY CHANGES WITH THE ENGINEER IF THE EXISTING UTILITY WILL BE IN CONFLICT WITH THE PROPOSED SEWER.
  - CONTRACTOR SHALL COORDINATE FINAL CLEANOUT AND B-BOX LOCATIONS AND SANITARY AND WATER SERVICE CONNECTIONS WITH ENGINEER AND VILLAGE OF ALGONQUIN PUBLIC WORKS DEPARTMENT.
  - EXISTING SANITARY SERVICES AND ELEVATION SHOWN ARE BASED ON SEWER TELEVISION TAPES AND ARE APPROXIMATE. THEY ARE PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR AND MUST BE VERIFIED PRIOR TO CONSTRUCTION.

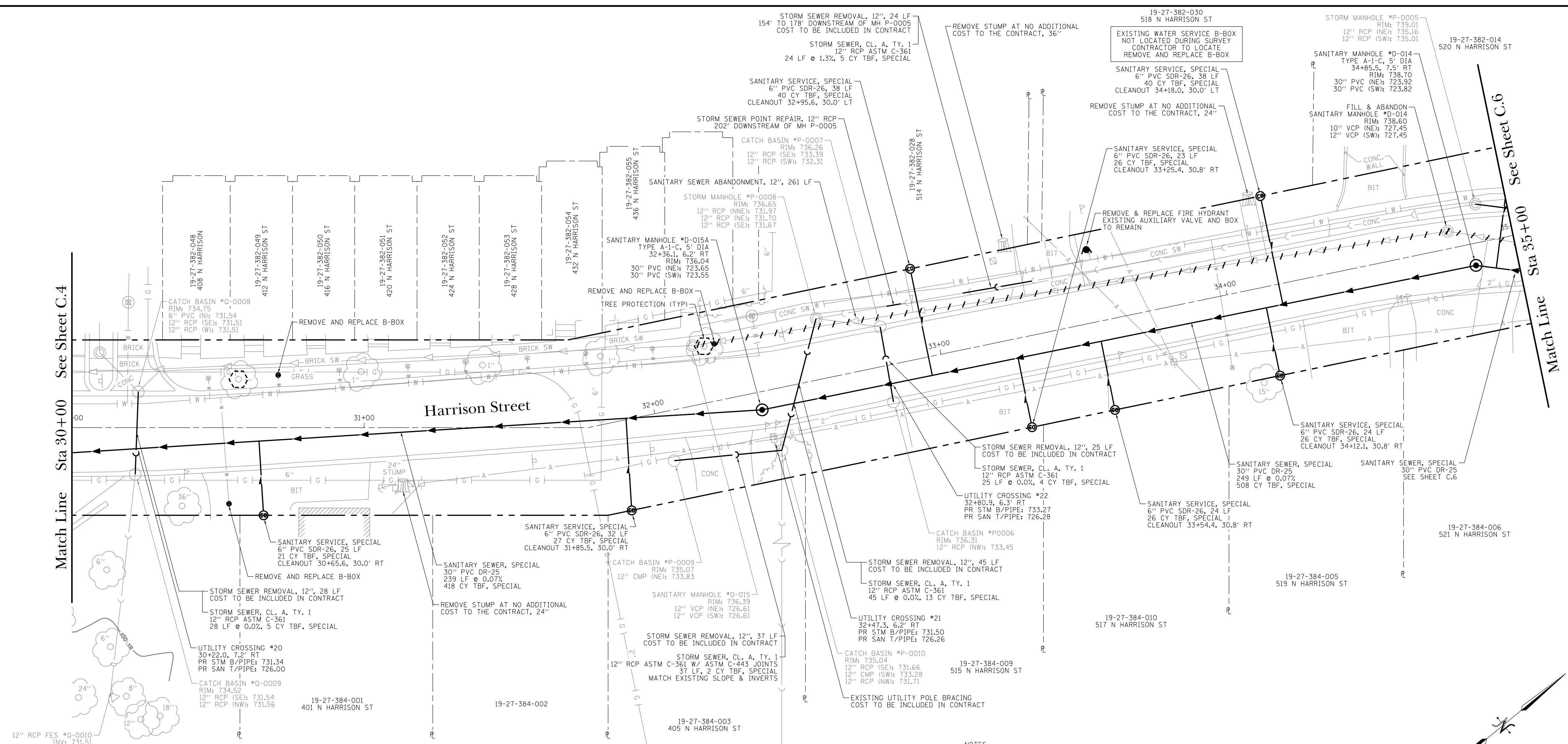


Match Line Sta 25+00 See Sheet C.3

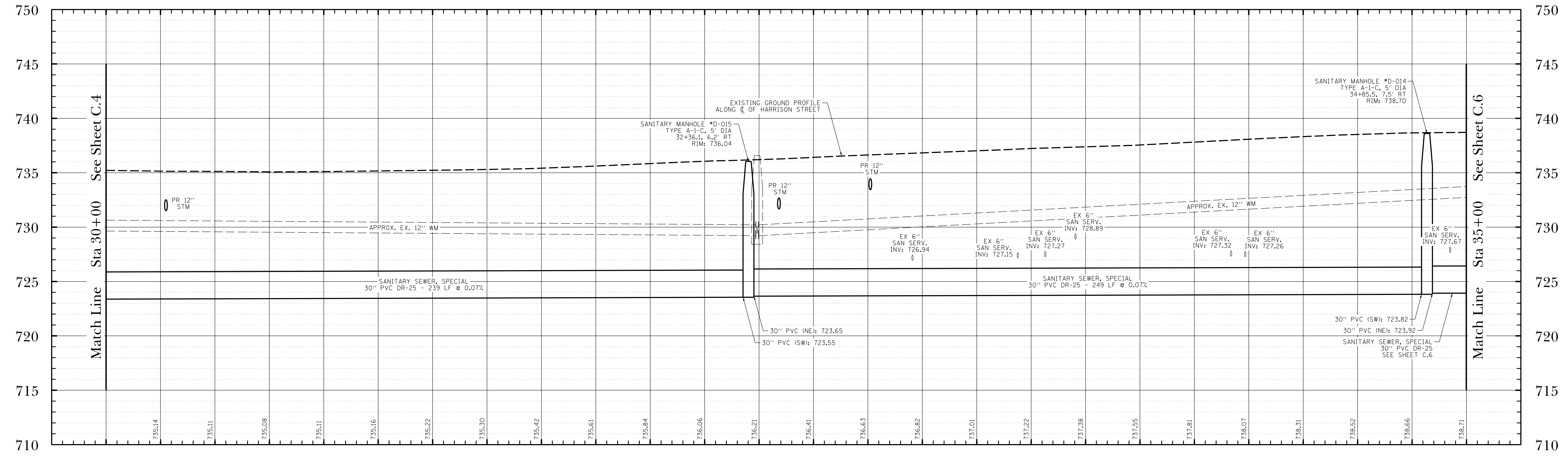
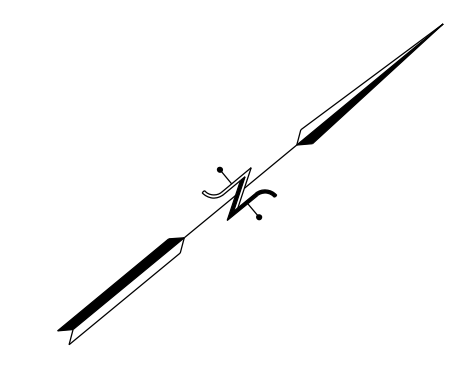
Match Line Sta 30+00 See Sheet C.5

DATE	8/23/19
ISSUE	0.
PROJECT STAFF	PROJECT MANAGER: SCOTT BROWNE, P.E. ENGINEER: TERRY DITTMAR, P.E. ENGINEER: JAMES WILSON TECHNICIAN: MIKE WILSON TECHNICIAN:
REVISIONS	
 TROTTER ASSOCIATES, INC. ENGINEERS AND SURVEYORS 40501 Wood Road, Suite D St. Charles, IL 60175 Ph: 630.587.4700 • Fax: 630.587.4715	
Downtown Streetscape Stage 2 Wet Utilities Sanitary Sewer Plan and Profile Harrison Street Sta 25+00 to Sta 30+00 Algonquin, McHenry County, Illinois	
Project No.:	ALG028C-1
Base File:	
Sheet File:	C.4.dgn
Issue Date:	8/23/2019
Scale:	HORIZ: 1" = 20' VERT: 1" = 5'
Sheet Number	C.4





- NOTES:
1. CONTRACTOR TO LOCATE EXISTING UNDERGROUND UTILITIES, INCLUDING WATER AND SANITARY SERVICES, AT ALL CROSSINGS WITH THE PROPOSED SEWER PRIOR TO CONSTRUCTING THE SEWER. THE CONTRACTOR SHALL COORDINATE ANY NECESSARY CHANGES WITH THE ENGINEER IF THE EXISTING UTILITY WILL BE IN CONFLICT WITH THE PROPOSED SEWER.
  2. CONTRACTOR SHALL COORDINATE FINAL CLEANOUT AND B-BOX LOCATIONS AND SANITARY AND WATER SERVICE CONNECTIONS WITH ENGINEER AND VILLAGE OF ALGONQUIN PUBLIC WORKS DEPARTMENT.
  3. EXISTING SANITARY SERVICES AND ELEVATION SHOWN ARE BASED ON SEWER TELEVISION TAPES AND ARE APPROXIMATE. THEY ARE PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR AND MUST BE VERIFIED PRIOR TO CONSTRUCTION.

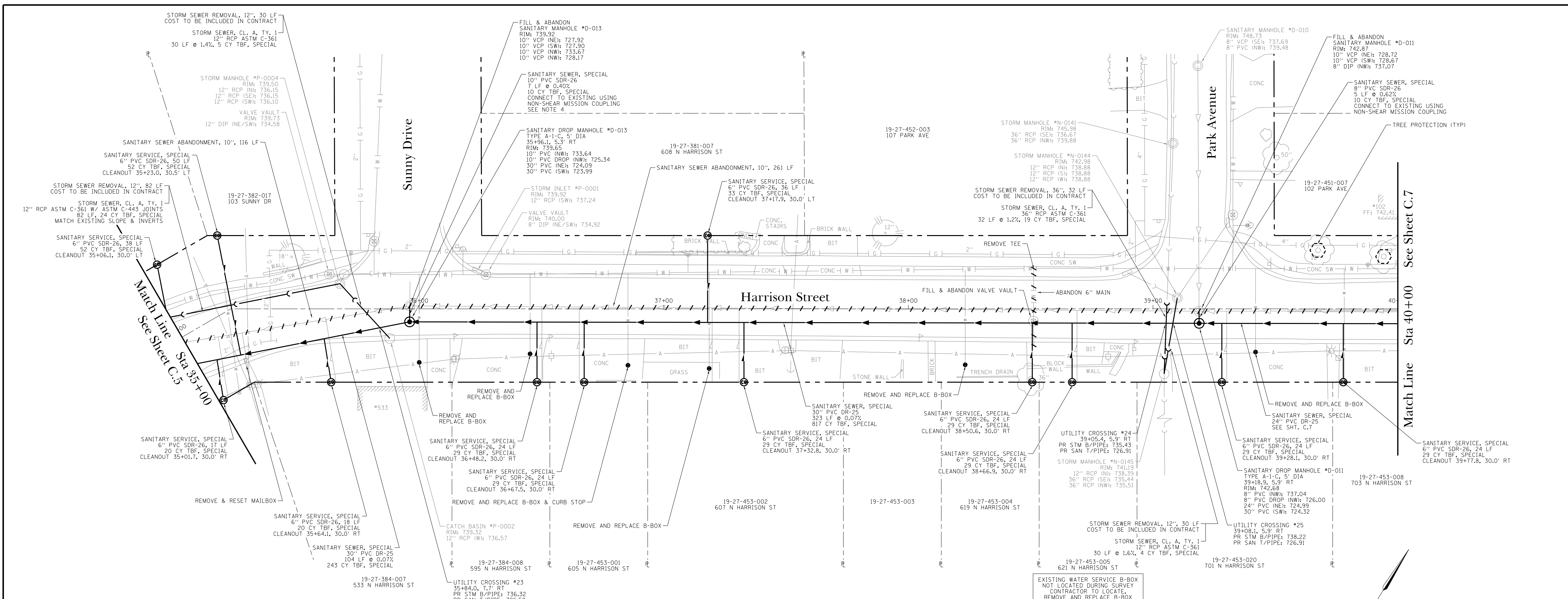


DATE	8/23/19
ISSUE	0.
PROJECT STAFF	PROJECT MANAGER: SCOTT BROTHERS, P.E. ENGINEER: TERRY DITTMAR, P.E. ENGINEER: [blank] ENGINEER: [blank] TECHNICIAN: [blank] TECHNICIAN: [blank]
REVISIONS	[blank]
ISSUED FOR CONSTRUCTION	[blank]

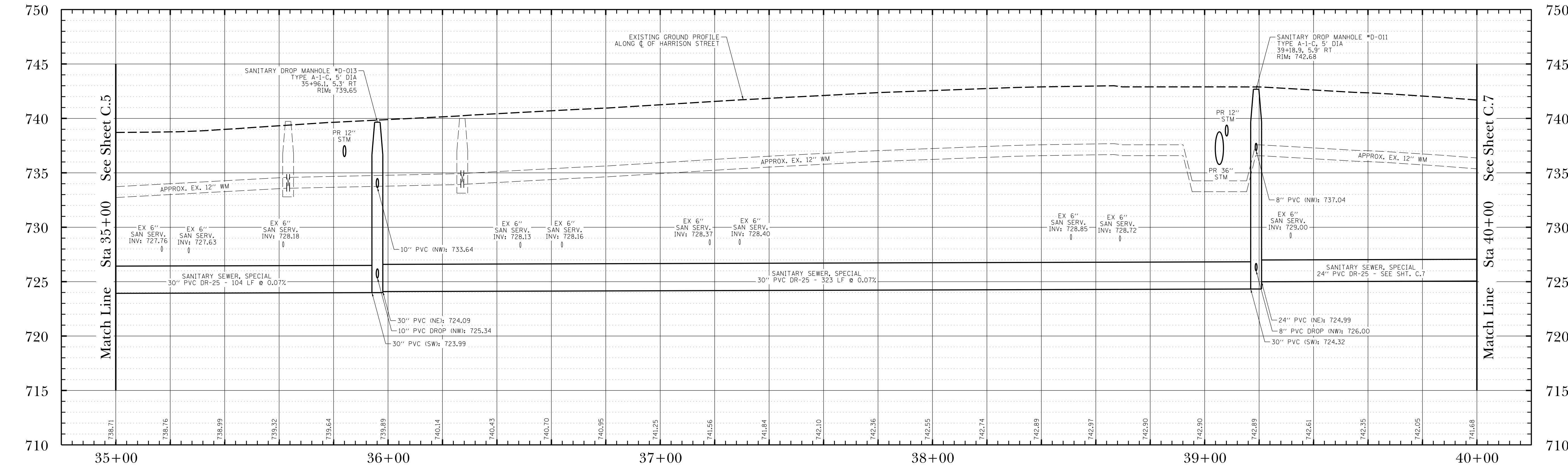
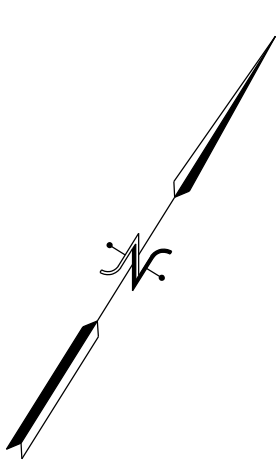
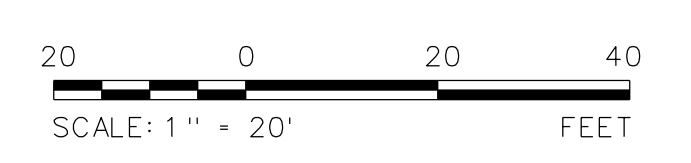
**TROTTER**  
ASSOCIATES, INC.  
ENGINEERS AND SURVEYORS  
40901 Wood Road, Suite D  
St. Charles, IL 60175  
Ph: 630.587.4700 • Fax: 630.587.4715

**Downtown Streetscape Stage 2 Wet Utilities**  
Sanitary Sewer Plan and Profile  
Harrison Street Sta 30+00 to Sta 35+00  
Algonquin, McHenry County, Illinois

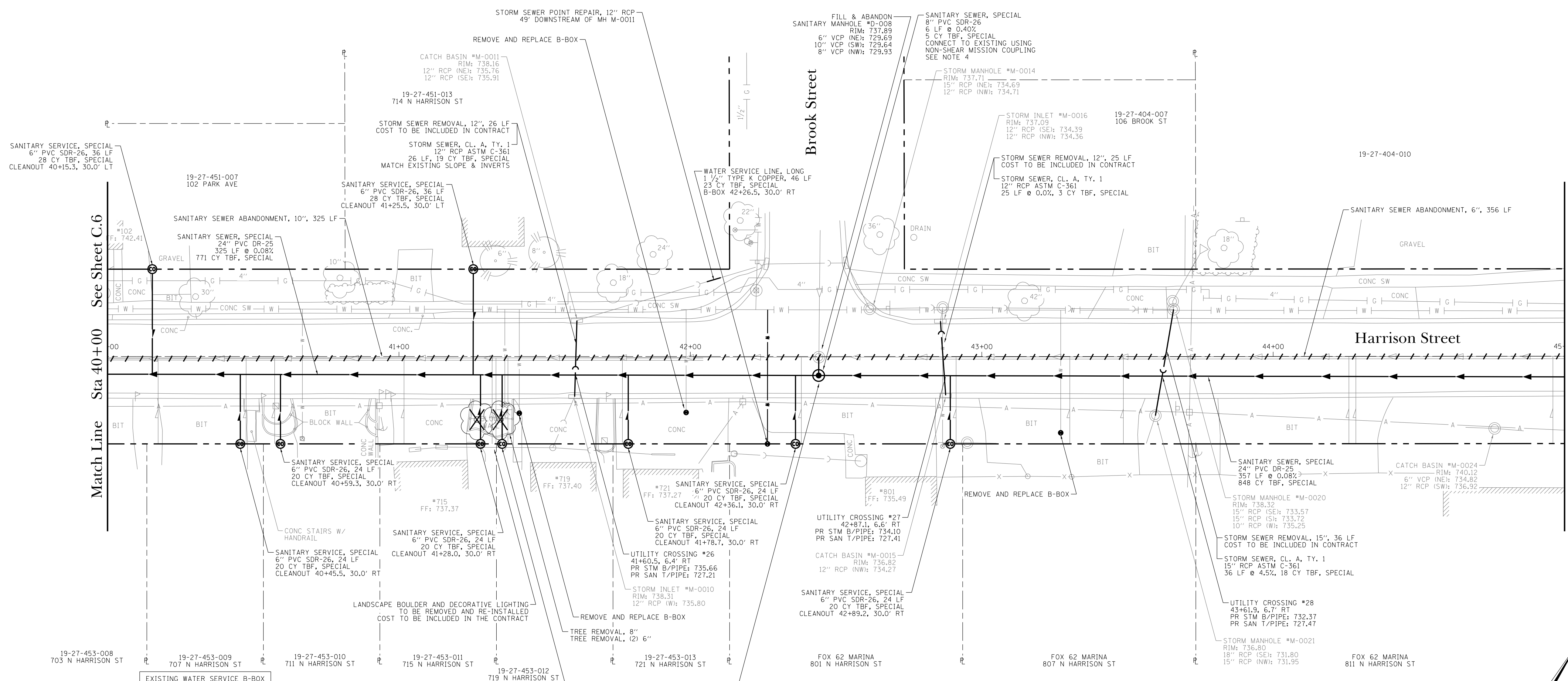
Project No.:	ALG028C-1
Base File:	[blank]
Sheet File:	C.5.dgn
Issue Date:	8/23/2019
Scale:	HORIZ: 1" = 20' VERT: 1" = 5'
Sheet Number	C.5



- NOTES:
- CONTRACTOR TO LOCATE EXISTING UNDERGROUND UTILITIES, INCLUDING WATER AND SANITARY SERVICES, AT ALL CROSSINGS WITH THE PROPOSED SEWER PRIOR TO CONSTRUCTING THE SEWER. THE CONTRACTOR SHALL COORDINATE ANY NECESSARY CHANGES WITH THE ENGINEER IF THE EXISTING UTILITY WILL BE IN CONFLICT WITH THE PROPOSED SEWER.
  - CONTRACTOR SHALL COORDINATE FINAL CLEANOUT AND B-BOX LOCATIONS AND SANITARY AND WATER SERVICE CONNECTIONS WITH ENGINEER AND VILLAGE OF ALGONQUIN PUBLIC WORKS DEPARTMENT.
  - EXISTING SANITARY SERVICES AND ELEVATION SHOWN ARE BASED ON SEWER TELEVISION TAPES AND ARE APPROXIMATE. THEY ARE PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR AND MUST BE VERIFIED PRIOR TO CONSTRUCTION.
  - CONTRACTOR TO FIELD VERIFY SIZE AND MATERIAL OF EXISTING SEWER TO SUPPLY AND INSTALL CORRECT NON-SHEAR, RIGID MISSION COUPLING.

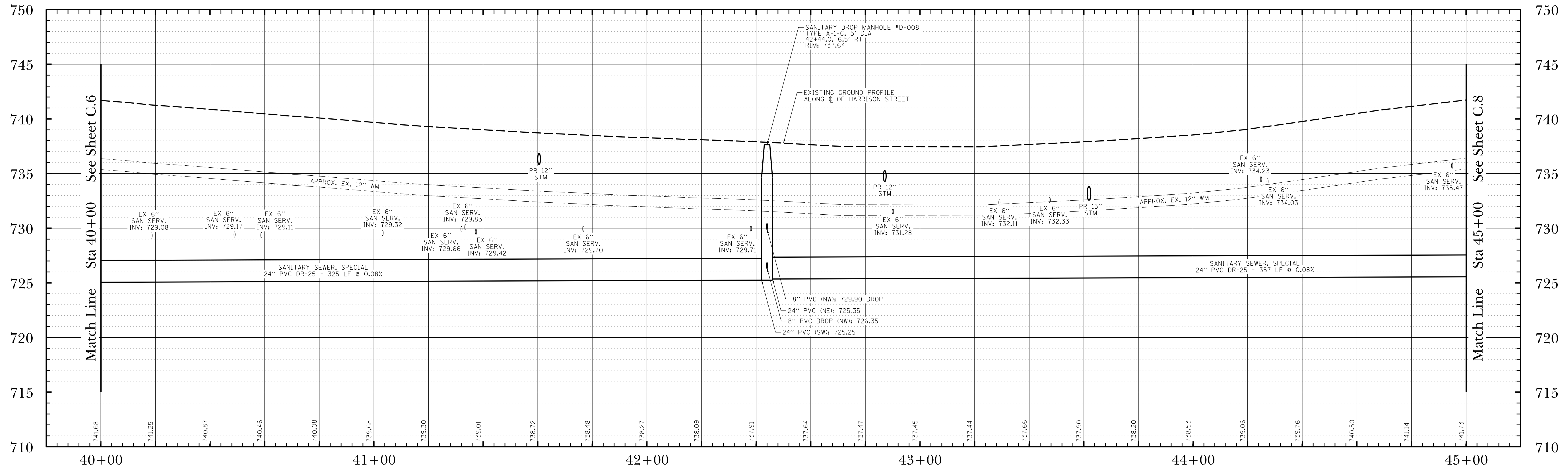
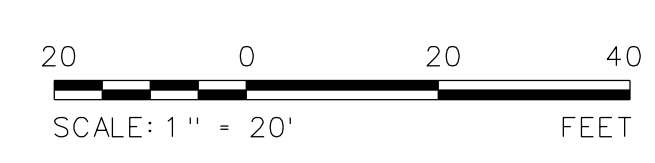


DATE	8/23/19
ISSUE	0.
PROJECT STAFF	PROJECT MANAGER: SCOTT BROTHERS, P.E. ENGINEER: TERRY DITTMAR, P.E. ENGINEER: [blank] ENGINEER: [blank] TECHNICIAN: [blank] TECHNICIAN: [blank]
REVISIONS	[blank]
 <b>TROTTER ASSOCIATES, INC.</b> ENGINEERS AND SURVEYORS 40501 Wood Road, Suite D St. Charles, IL 60175 Ph: 630.587.4700 • Fax: 630.587.4715	
<b>Downtown Streetscape Stage 2 Wet Utilities</b> <b>Sanitary Sewer Plan and Profile</b> <b>Harrison Street Sta 35+00 to Sta 40+00</b> <b>Algonquin, McHenry County, Illinois</b>	
Project No.:	ALG028C-1
Base File:	[blank]
Sheet File:	C.6.dgn
Issue Date:	8/23/2019
Scale:	HORIZ: 1" = 20' VERT: 1" = 5'
Sheet Number	C.6

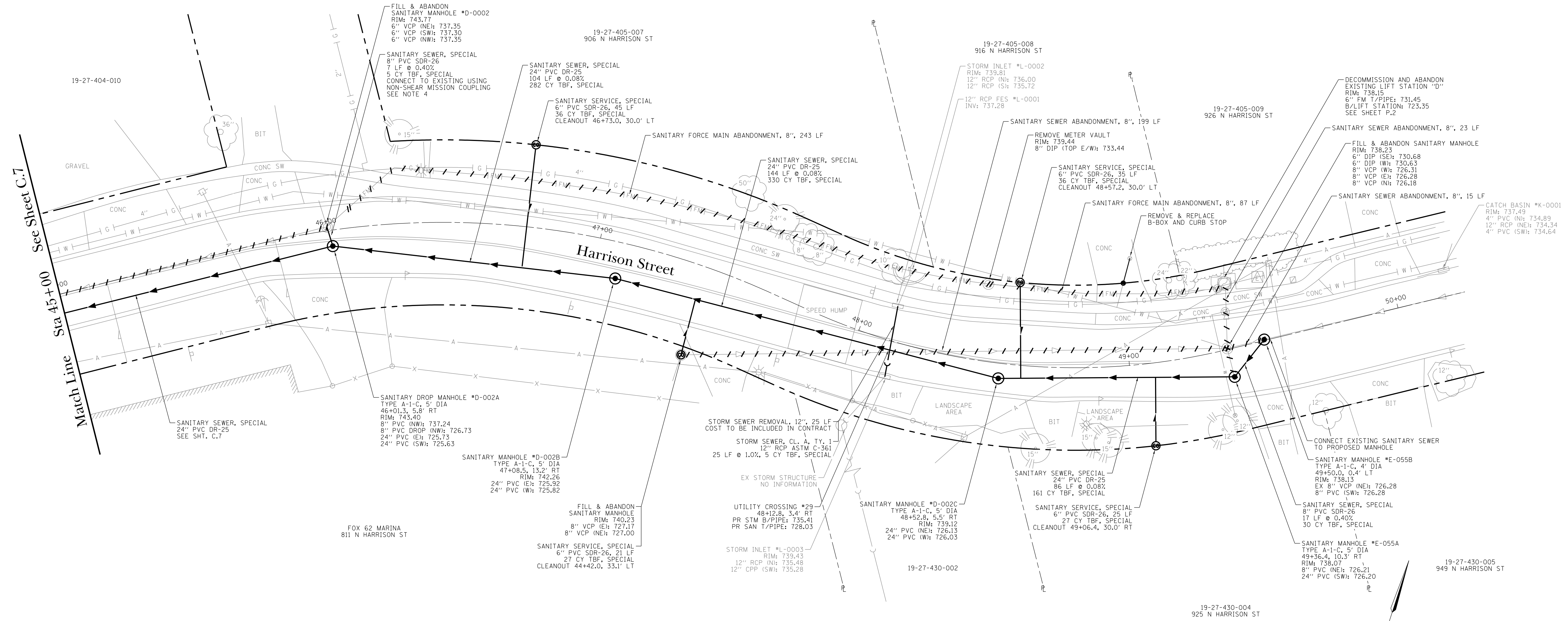


NOTES:

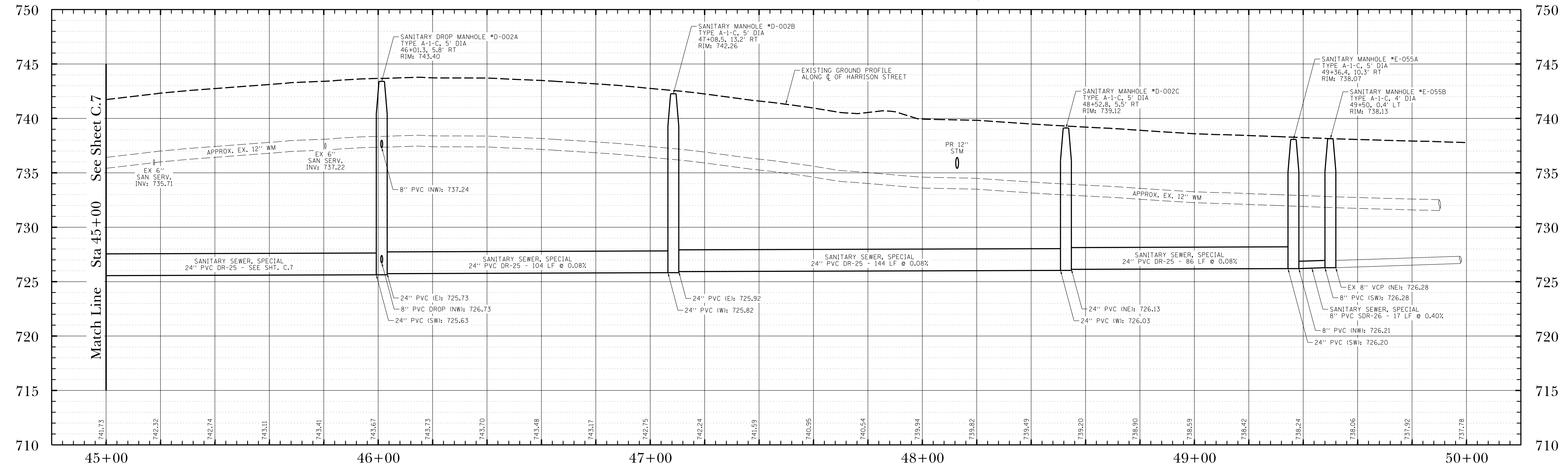
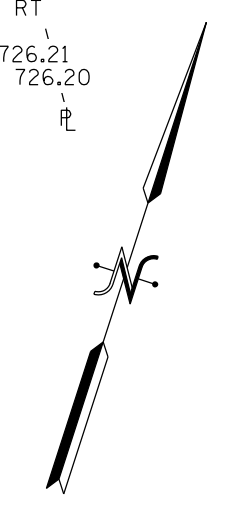
- CONTRACTOR TO LOCATE EXISTING UNDERGROUND UTILITIES, INCLUDING WATER AND SANITARY SERVICES, AT ALL CROSSINGS WITH THE PROPOSED SEWER PRIOR TO CONSTRUCTING THE SEWER. THE CONTRACTOR SHALL COORDINATE ANY NECESSARY CHANGES WITH THE ENGINEER IF THE EXISTING UTILITY WILL BE IN CONFLICT WITH THE PROPOSED SEWER.
- CONTRACTOR SHALL COORDINATE FINAL CLEANOUT AND B-BOX LOCATIONS AND SANITARY AND WATER SERVICE CONNECTIONS WITH ENGINEER AND VILLAGE OF ALGONQUIN PUBLIC WORKS DEPARTMENT.
- EXISTING SANITARY SERVICES AND ELEVATION SHOWN ARE BASED ON SEWER TELEVISION TAPES AND ARE APPROXIMATE. THEY ARE PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR AND MUST BE VERIFIED PRIOR TO CONSTRUCTION.
- CONTRACTOR TO FIELD VERIFY SIZE AND MATERIAL OF EXISTING SEWER TO SUPPLY AND INSTALL CORRECT NON-SHEAR, RIGID MISSION COUPLING.



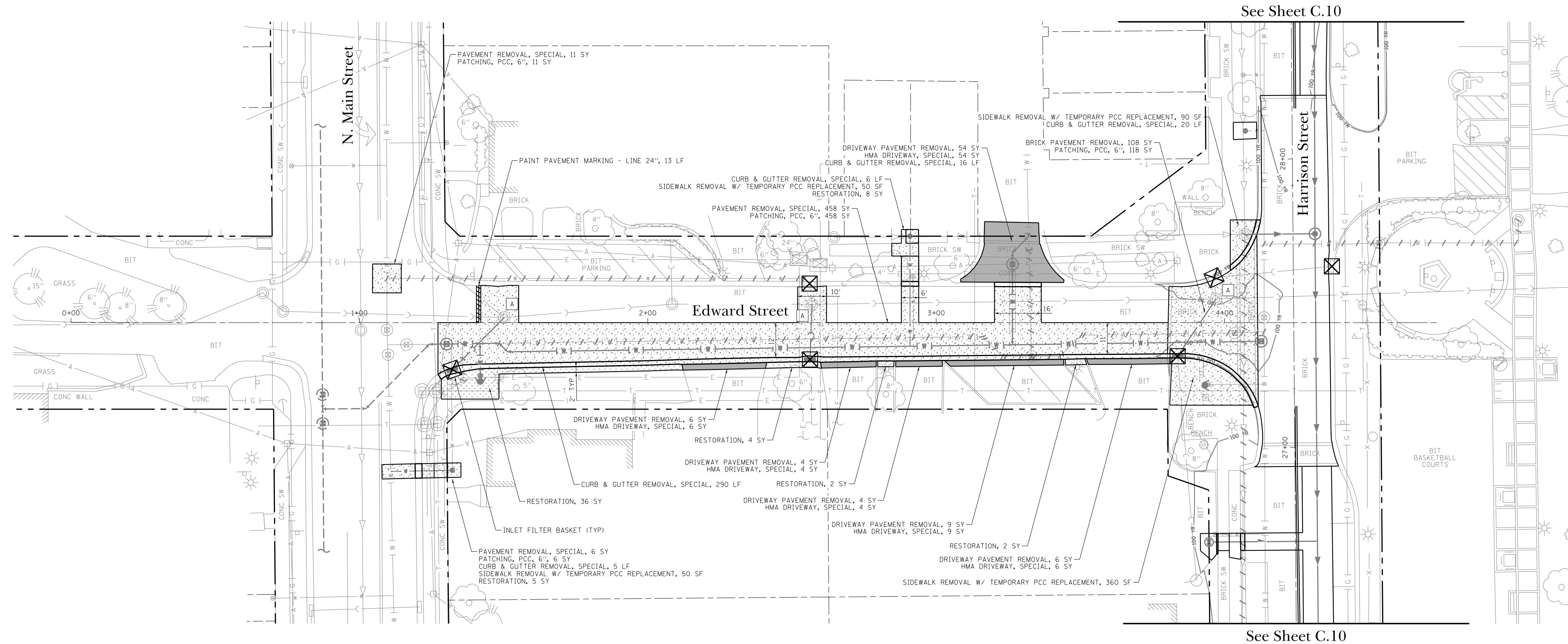
DATE	8/23/19
ISSUE	0.
PROJECT STAFF	PROJECT MANAGER: SCOTT BROTHERS P.E. ENGINEER: TERRY BROTHERS P.E. ENGINEER: JAMES BROTHERS TECHNICIAN: MIKE WATSON TECHNICIAN:
REVISIONS	
 TROTTER ASSOCIATES, INC. ENGINEERS AND SURVEYORS 40500 W. Wood Road, Suite D St. Charles, IL 60175 Ph: 630.587.4700 • Fax: 630.587.4715	
Downtown Streetscape Stage 2 Wet Utilities Sanitary Sewer Plan and Profile Harrison Street Sta 40+00 to Sta 45+00 Algonquin, McHenry County, Illinois	
Project No.:	ALG028C-1
Base File:	
Sheet File:	C.7.dgn
Issue Date:	8/23/2019
Scale:	HORIZ: 1" = 20' VERT: 1" = 5'
Sheet Number	C.7



- NOTES:
- CONTRACTOR TO LOCATE EXISTING UNDERGROUND UTILITIES, INCLUDING WATER AND SANITARY SERVICES, AT ALL CROSSINGS WITH THE PROPOSED SEWER PRIOR TO CONSTRUCTING THE SEWER. THE CONTRACTOR SHALL COORDINATE ANY NECESSARY CHANGES WITH THE ENGINEER IF THE EXISTING UTILITY WILL BE IN CONFLICT WITH THE PROPOSED SEWER.
  - CONTRACTOR SHALL COORDINATE FINAL CLEANOUT AND B-BOX LOCATIONS AND SANITARY AND WATER SERVICE CONNECTIONS WITH ENGINEER AND VILLAGE OF ALGONQUIN PUBLIC WORKS DEPARTMENT.
  - EXISTING SANITARY SERVICES AND ELEVATION SHOWN ARE BASED ON SEWER TELEVISIONING TAPES AND ARE APPROXIMATE. THEY ARE PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR AND MUST BE VERIFIED PRIOR TO CONSTRUCTION.
  - CONTRACTOR TO FIELD VERIFY SIZE AND MATERIAL OF EXISTING SEWER TO SUPPLY AND INSTALL CORRECT NON-SHEAR, RIGID MISSION COUPLING.

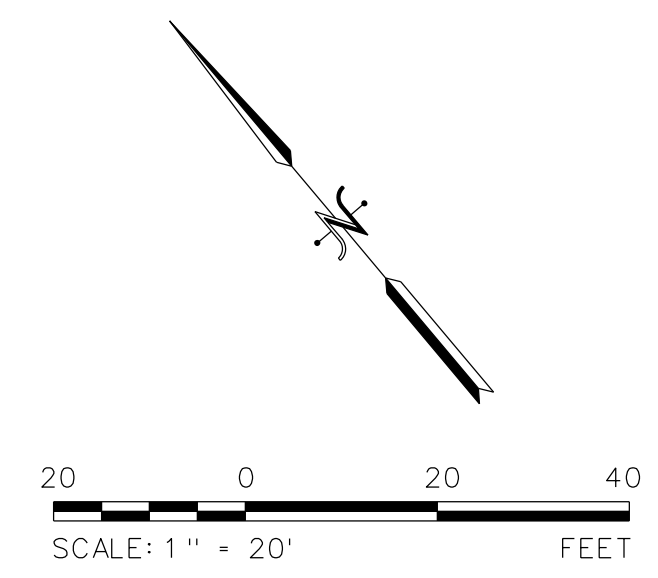


DATE	8/23/19
REVISIONS	
ISSUE	0.
PROJECT STAFF	PROJECT MANAGER: SCOTT BROTHERS, P.E. ENGINEER: TERRY BROTHERS, P.E. ENGINEER: JAMES BROTHERS, P.E. ENGINEER: JAMES BROTHERS, P.E. TECHNICIAN: MIKE BROTHERS TECHNICIAN: MIKE BROTHERS
 <b>TROTTER ASSOCIATES, INC.</b> ENGINEERS AND SURVEYORS 40500 Wood Road, Suite D St. Charles, IL 60175 Ph: 630.587.4700 • Fax: 630.587.4715	
<b>Downtown Streetscape Stage 2 Wet Utilities</b> <b>Sanitary Sewer Plan and Profile</b> <b>Harrison Street Sta 45+00 to Sta 50+00</b> <b>Algonquin, McHenry County, Illinois</b>	
Project No.:	ALG028C-1
Base File:	
Sheet File:	C.8.dgn
Issue Date:	8/23/2019
Scale:	HORIZ: 1" = 20' VERT: 1" = 5'
Sheet Number	C.8



See Sheet C.10

See Sheet C.10



"RESTORATION" INCLUDES PAY ITEMS:  
 TOPSOIL FURNISH AND PLACE, 6"  
 SEED, FERTILIZER, AND TURF EROSION CONTROL BLANKET

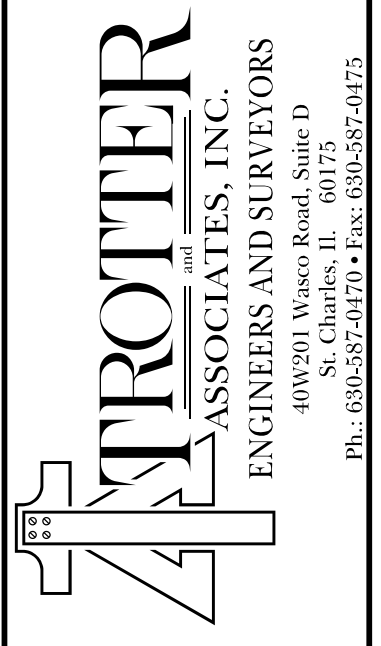
- NOTES:
1. ALL EXISTING UTILITY STRUCTURES WITHIN PAVEMENT LIMITS SHALL BE ADJUSTED OR RECONSTRUCTED AS REQUIRED TO MEET TO FINAL GRADE.
  2. CONTRACTOR TO INSTALL INLET FILTER BASKETS AT ALL OPEN GRATE DRAINAGE STRUCTURES.

Downtown Streetscape Stage 2 Wet Utilities  
 Restoration Plan  
 Edward Street  
 Algonquin, McHenry County, Illinois

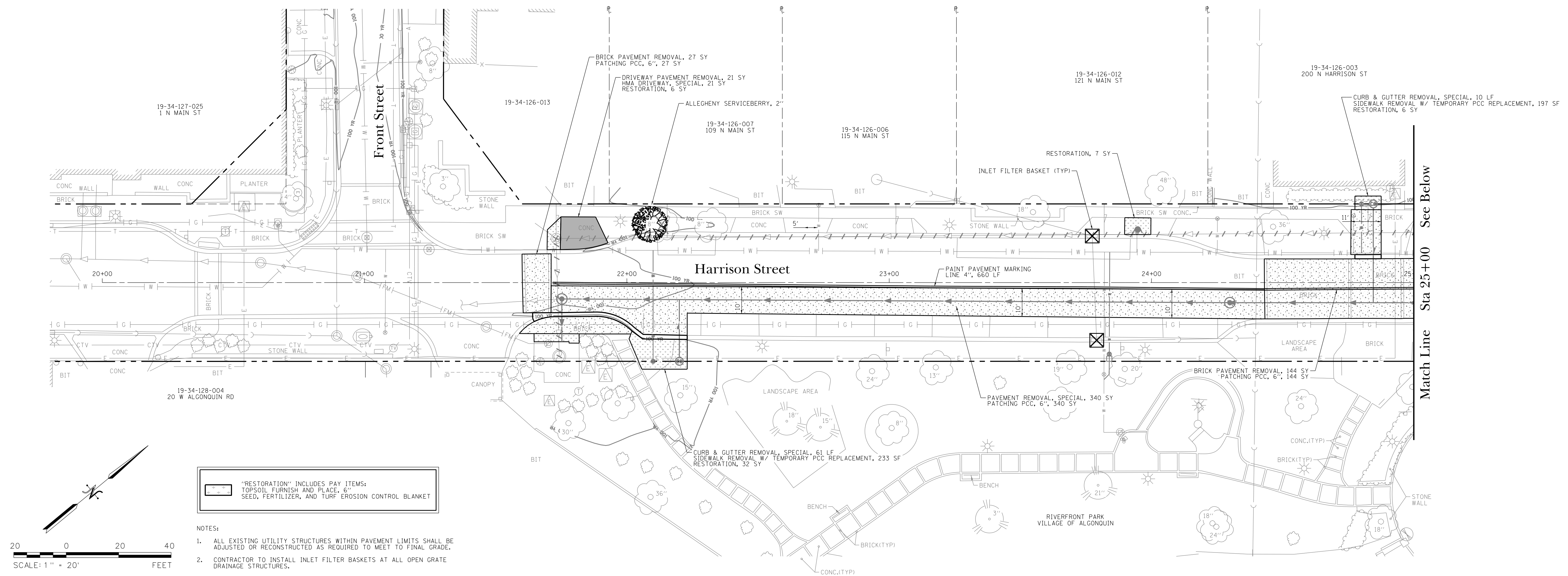
Project No.: ALG028C-1  
 Base File:  
 Sheet File: C.9.dgn  
 Issue Date: 8/23/2019  
 Scale: 1" = 20'

Sheet Number  
**C.9**

PROJECT STAFF	ISSUE	REVISIONS	DATE
PROJECT MANAGER: SCOTT BROTHERS, P.E.			
ENGINEER: TERRY BROTHERS, P.E.			
ENGINEER: JAMES BROTHERS, P.E.			
ENGINEER: MIKE WATSON			
TECHNICIAN: MIKE WATSON			
TECHNICIAN: MIKE WATSON			
ISSUE	C.		8/23/19

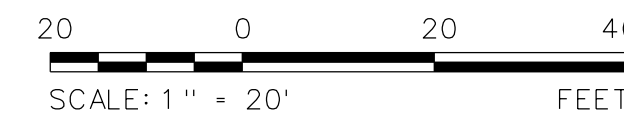


ISSUED FOR CONSTRUCTION

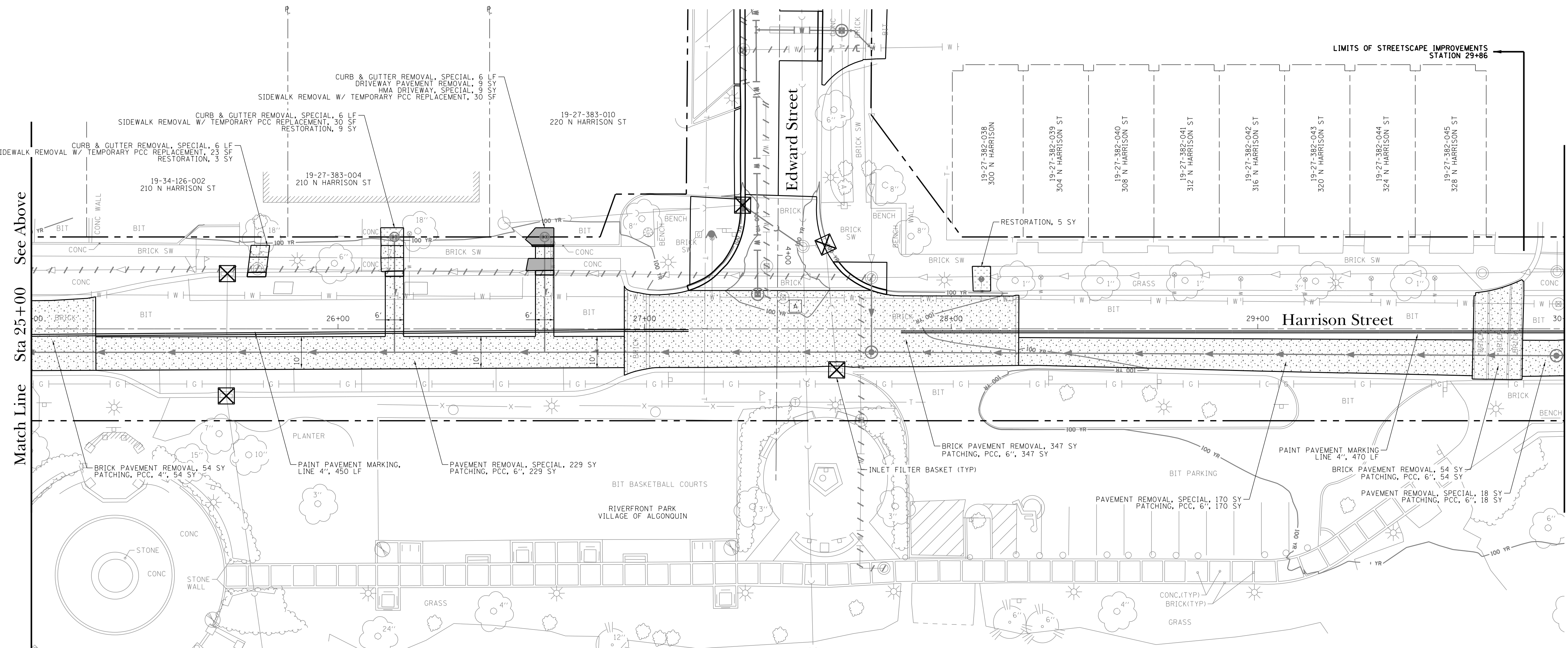


“RESTORATION” INCLUDES PAY ITEMS:  
 TOPSOIL FURNISH AND PLACE, 6”  
 SEED, FERTILIZER, AND TURF EROSION CONTROL BLANKET

- NOTES:
1. ALL EXISTING UTILITY STRUCTURES WITHIN PAVEMENT LIMITS SHALL BE ADJUSTED OR RECONSTRUCTED AS REQUIRED TO MEET TO FINAL GRADE.
  2. CONTRACTOR TO INSTALL INLET FILTER BASKETS AT ALL OPEN GRATE DRAINAGE STRUCTURES.



Match Line Sta 25+00 See Below



Match Line Sta 25+00 See Above

Match Line Sta 30+00 See Sheet C.11

PROJECT STAFF	ISSUE	REVISIONS	DATE
PROJECT MANAGER: SCOTT BROTHERS P.E.			
ENGINEER: TERRY BROTHERS P.E.			
ENGINEER: JAMES BROTHERS P.E.			
ENGINEER: JAMES BROTHERS P.E.			
TECHNICIAN: JAMES BROTHERS			
TECHNICIAN: JAMES BROTHERS			

**TROTTER ASSOCIATES, INC.**  
 ENGINEERS AND SURVEYORS  
 40501 Wood Road, Suite D  
 St. Charles, IL 60175  
 Ph: 630-587-0700 • Fax: 630-587-0715

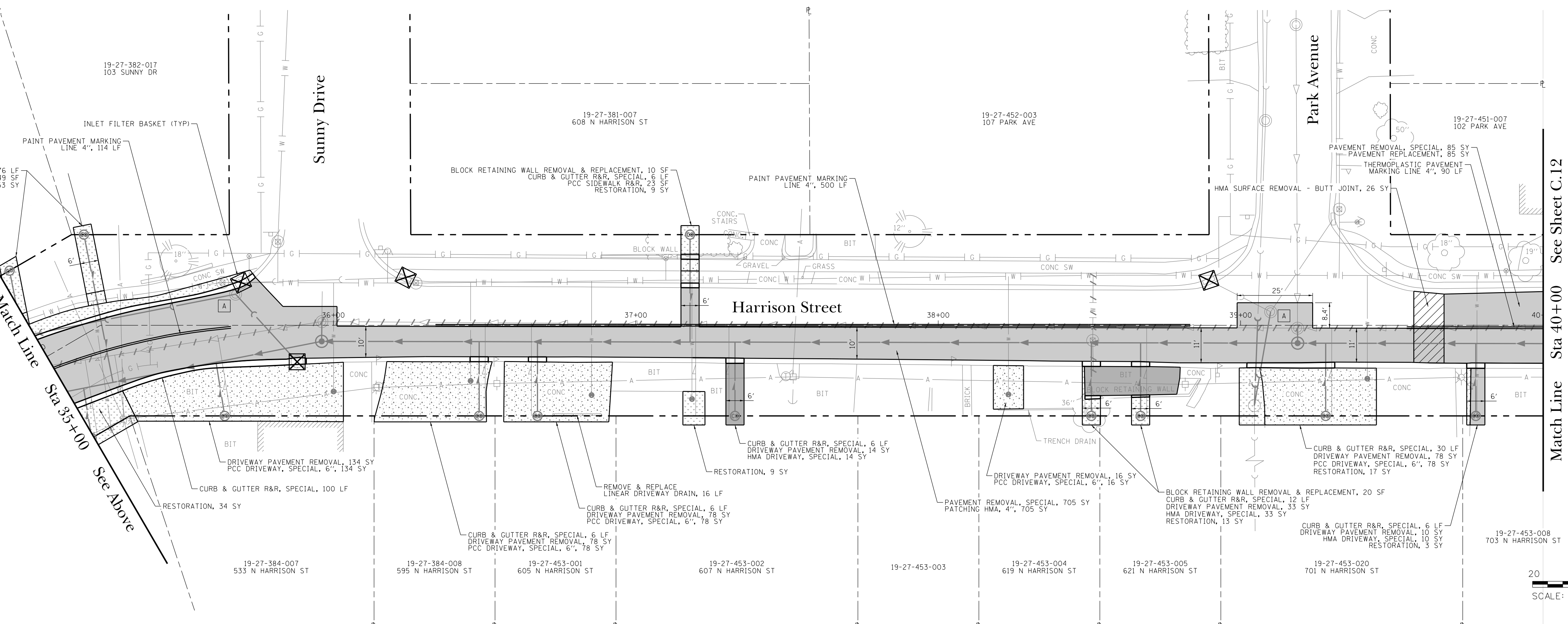
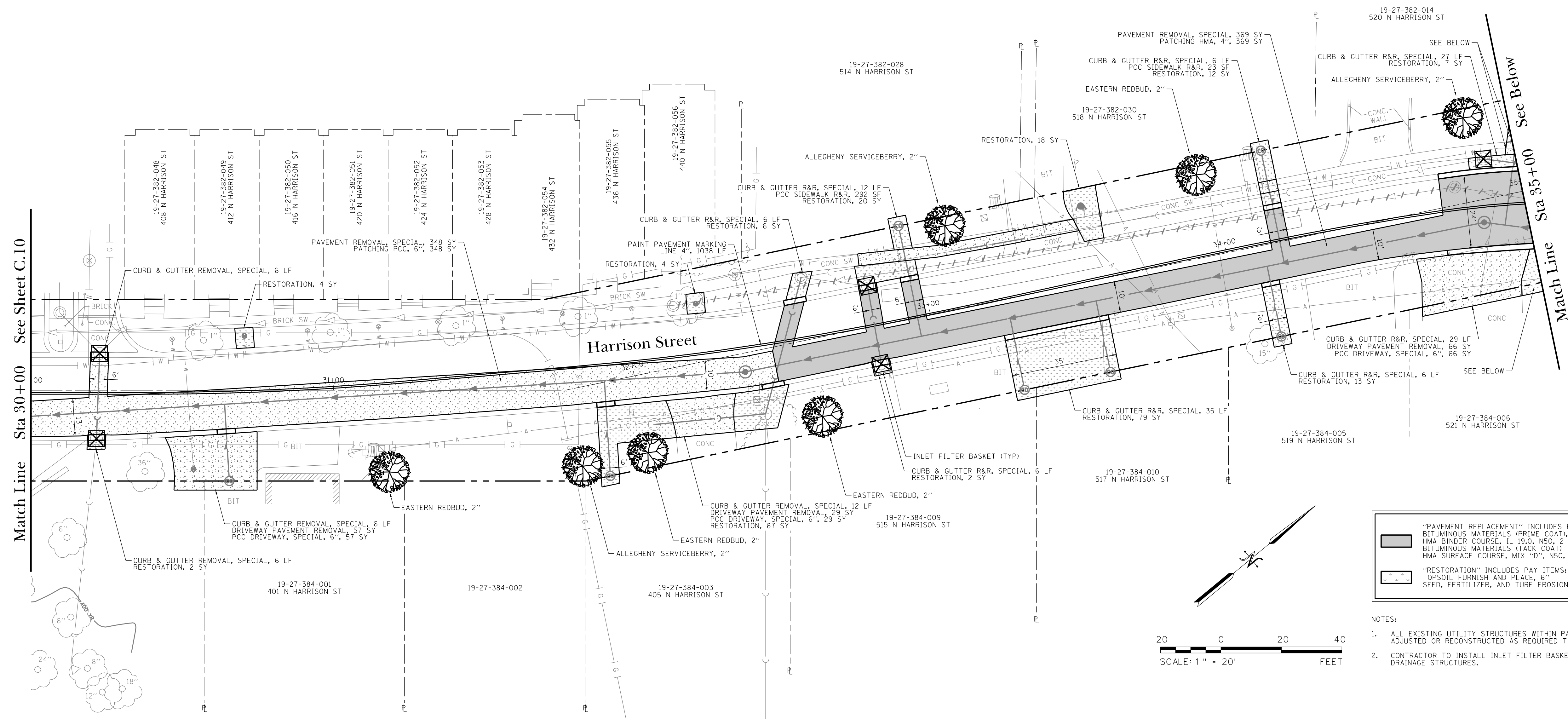
**Downtown Streetscape Stage 2 Wet Utilities**  
 Restoration Plan  
 Harrison Street Sta 20+00 to Sta 30+00  
 Algonquin, McHenry County, Illinois

Project No.:	ALG028C-1
Base File:	
Sheet File:	C.10.dgn
Issue Date:	8/23/2019
Scale:	1" = 20'

Match Line Sta 30+00 See Sheet C.10

Match Line Sta 35+00 See Above

Match Line Sta 40+00 See Sheet C.12



**LEGEND**

"PAVEMENT REPLACEMENT" INCLUDES PAY ITEMS:  
 BITUMINOUS MATERIALS (PRIME COAT), SPECIAL  
 HMA BINDER COURSE, IL-19.0, N50, 2 1/2"  
 BITUMINOUS MATERIALS (TACK COAT)  
 HMA SURFACE COURSE, MIX "D", N50, 1 1/2"  
 "RESTORATION" INCLUDES PAY ITEMS:  
 TOPSOIL FURNISH AND PLACE, 6"  
 SEED, FERTILIZER, AND TURF EROSION CONTROL BLANKET

- NOTES:**
- ALL EXISTING UTILITY STRUCTURES WITHIN PAVEMENT LIMITS SHALL BE ADJUSTED OR RECONSTRUCTED AS REQUIRED TO MEET TO FINAL GRADE.
  - CONTRACTOR TO INSTALL INLET FILTER BASKETS AT ALL OPEN GRATE DRAINAGE STRUCTURES.

DATE	ISSUE	REVISIONS
8/23/19 <td>0 <td>ISSUED FOR CONSTRUCTION</td> </td>	0 <td>ISSUED FOR CONSTRUCTION</td>	ISSUED FOR CONSTRUCTION

**PROJECT STAFF**

PROJECT MANAGER	SCOTT BROTHERS P.E.
ENGINEER	TERRY BROTHERS P.E.
ENGINEER	ANDREW BROTHERS
TECHNICIAN	MIKE WATSON
TECHNICIAN	TRAVIS WATSON

**PROJECT INFORMATION**

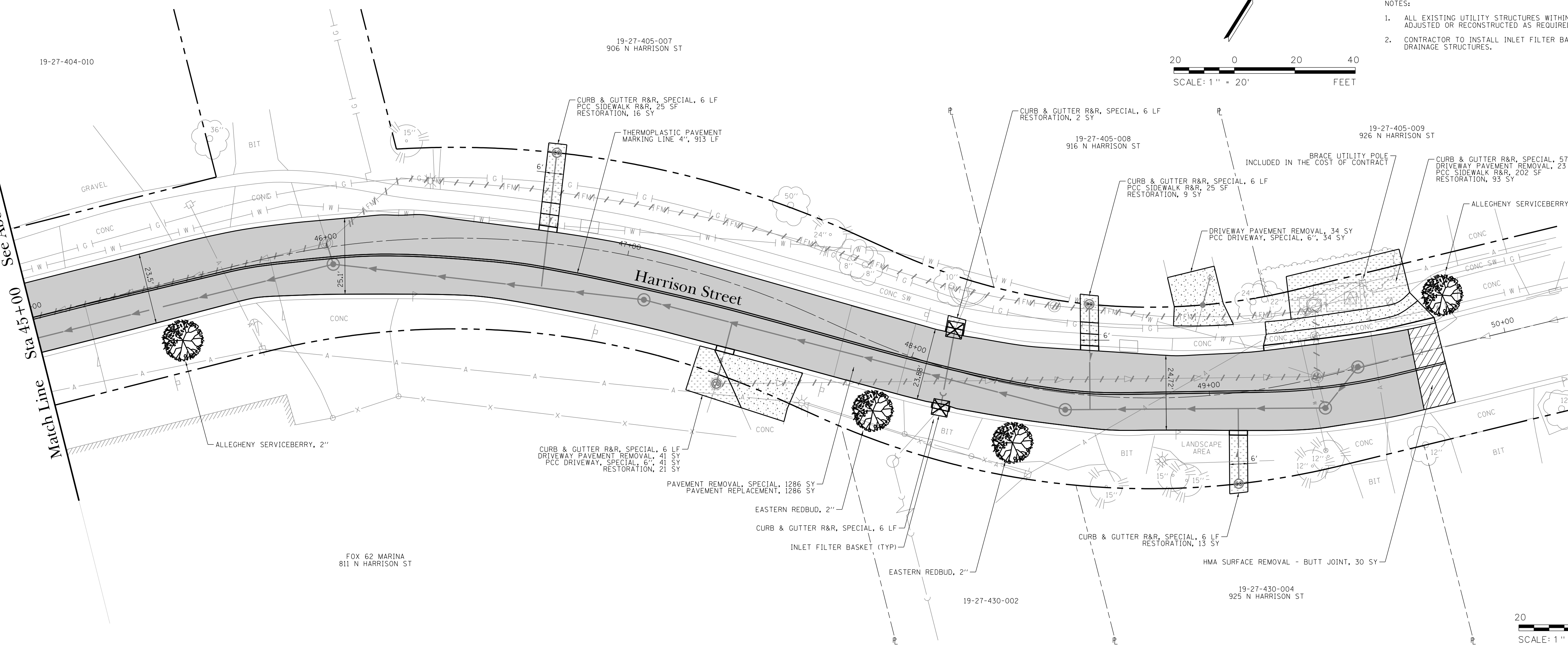
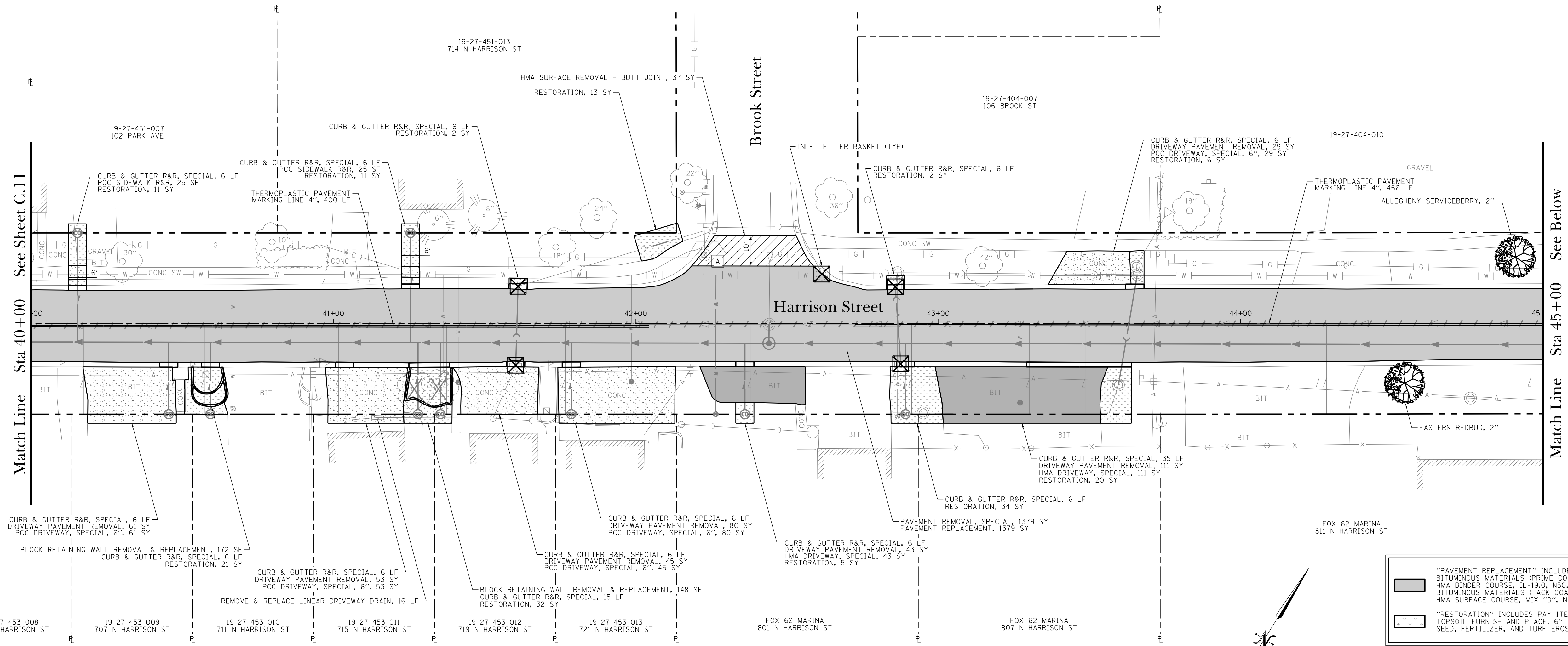
PROJECT NO.: ALG028C-1  
 SHEET FILE: C.11.dgn  
 ISSUE DATE: 8/23/2019  
 SCALE: 1" = 20'  
 SHEET NUMBER: C.11

**PROJECT INFORMATION**

PROJECT NO.: ALG028C-1  
 SHEET FILE: C.11.dgn  
 ISSUE DATE: 8/23/2019  
 SCALE: 1" = 20'  
 SHEET NUMBER: C.11

**PROJECT TITLE**

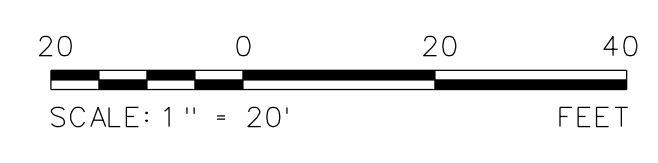
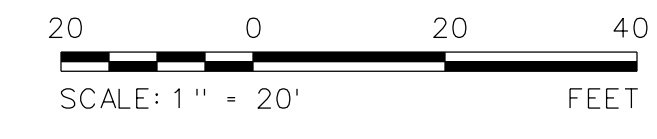
Downtown Streetscape Stage 2 Wet Utilities  
 Restoration Plan  
 Harrison Street Sta 30+00 to Sta 40+00  
 Algonquin, McHenry County, Illinois



**LEGEND**

- PAVEMENT REPLACEMENT INCLUDES PAY ITEMS:
  - BITUMINOUS MATERIALS (PRIME COAT), SPECIAL
  - HMA BINDER COURSE, IL-19.0, N50, 2 1/2"
  - BITUMINOUS MATERIALS (TACK COAT)
  - HMA SURFACE COURSE, MIX "D", N50, 1 1/2"
- RESTORATION INCLUDES PAY ITEMS:
  - TOPSOIL FURNISH AND PLACE, 6"
  - SEED, FERTILIZER, AND TURF EROSION CONTROL BLANKET

- NOTES:**
- ALL EXISTING UTILITY STRUCTURES WITHIN PAVEMENT LIMITS SHALL BE ADJUSTED OR RECONSTRUCTED AS REQUIRED TO MEET TO FINAL GRADE.
  - CONTRACTOR TO INSTALL INLET FILTER BASKETS AT ALL OPEN GRATE DRAINAGE STRUCTURES.



Match Line Sta 40+00 See Sheet C.11

Match Line Sta 45+00 See Below

PROJECT STAFF	
PROJECT MANAGER	SCOTT BROTHERS P.E.
ENGINEER	TERRY BROTHERS P.E.
ENGINEER	ANDREW BROTHERS
TECHNICIAN	MIKE BROTHERS
TECHNICIAN	TRACY BROTHERS

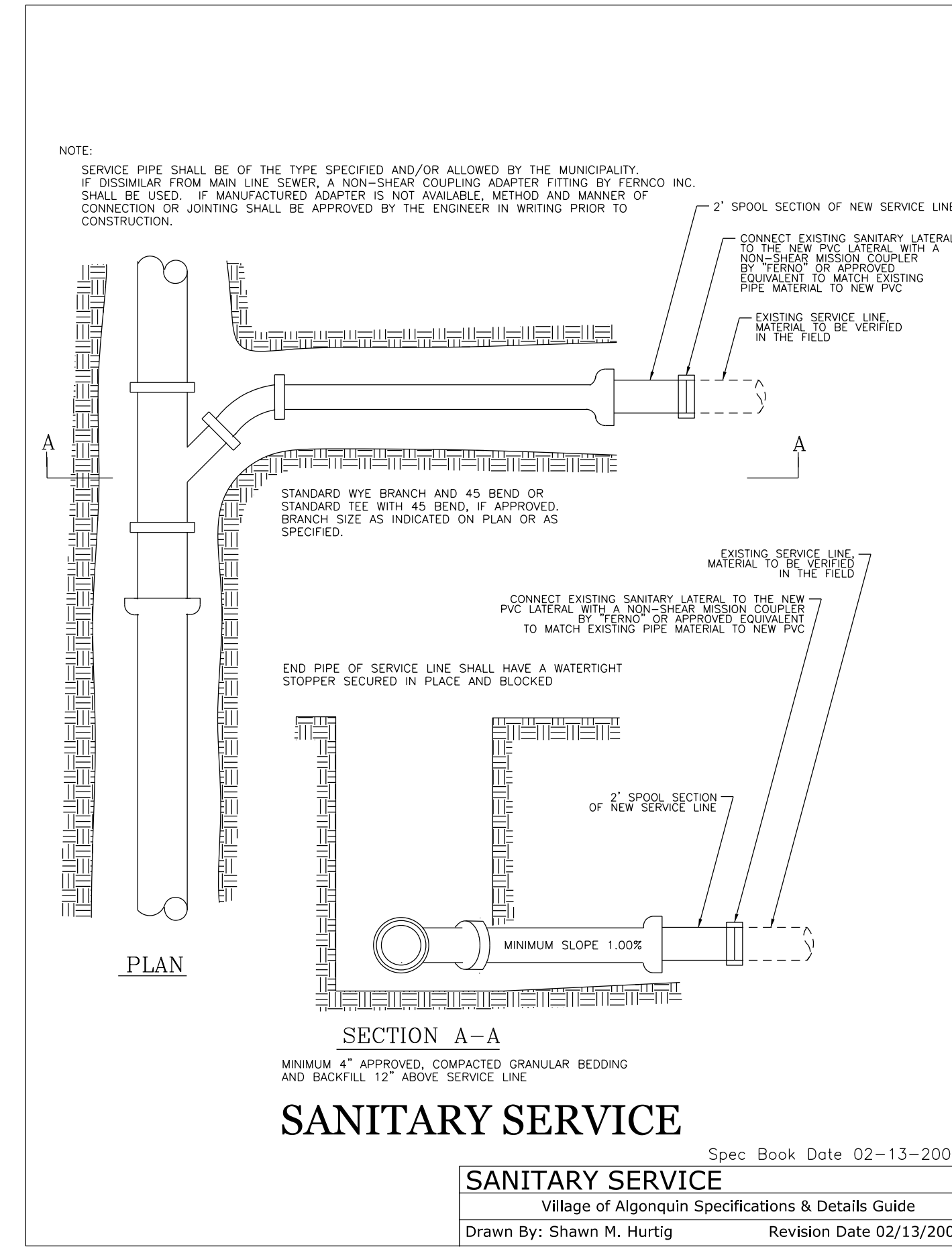
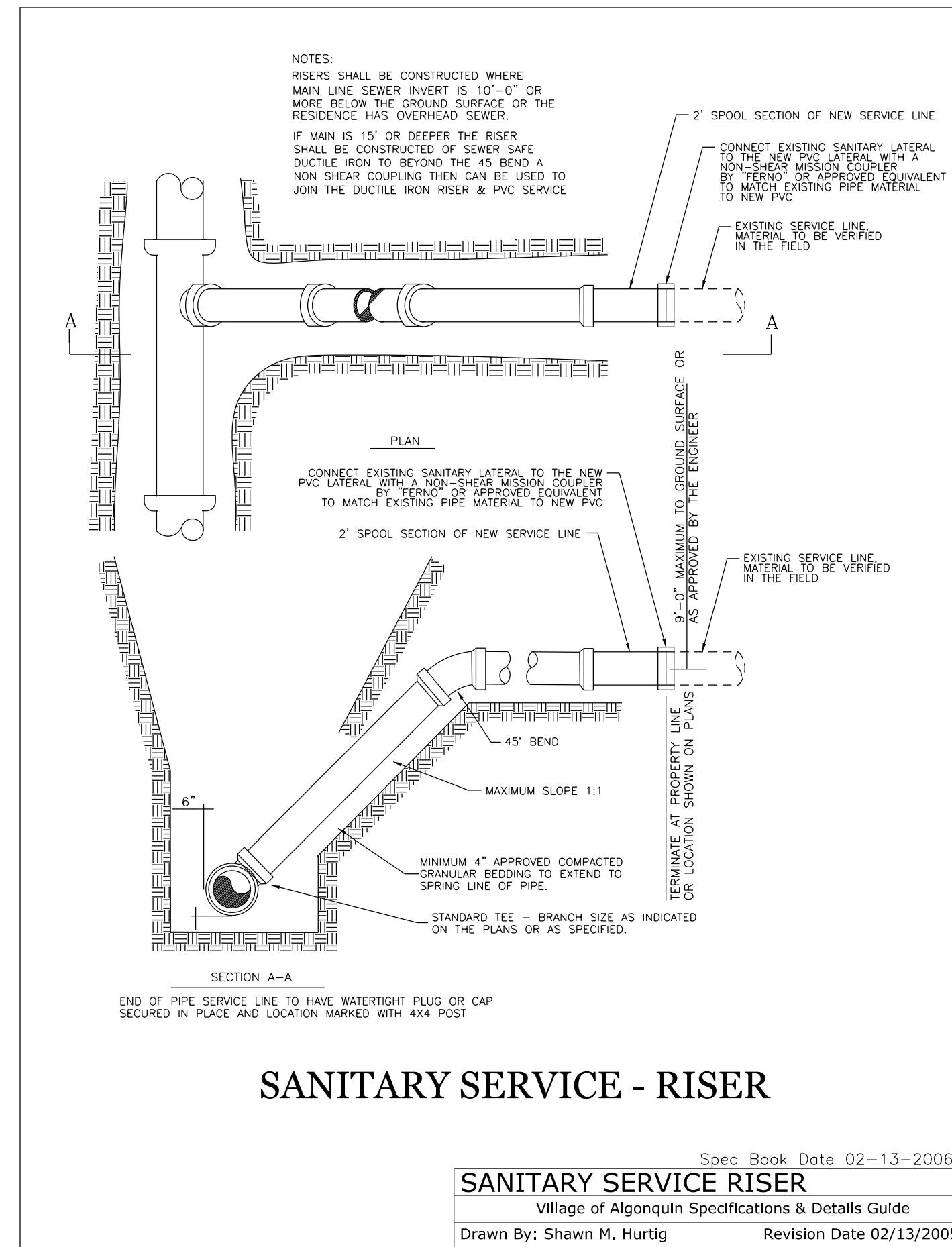
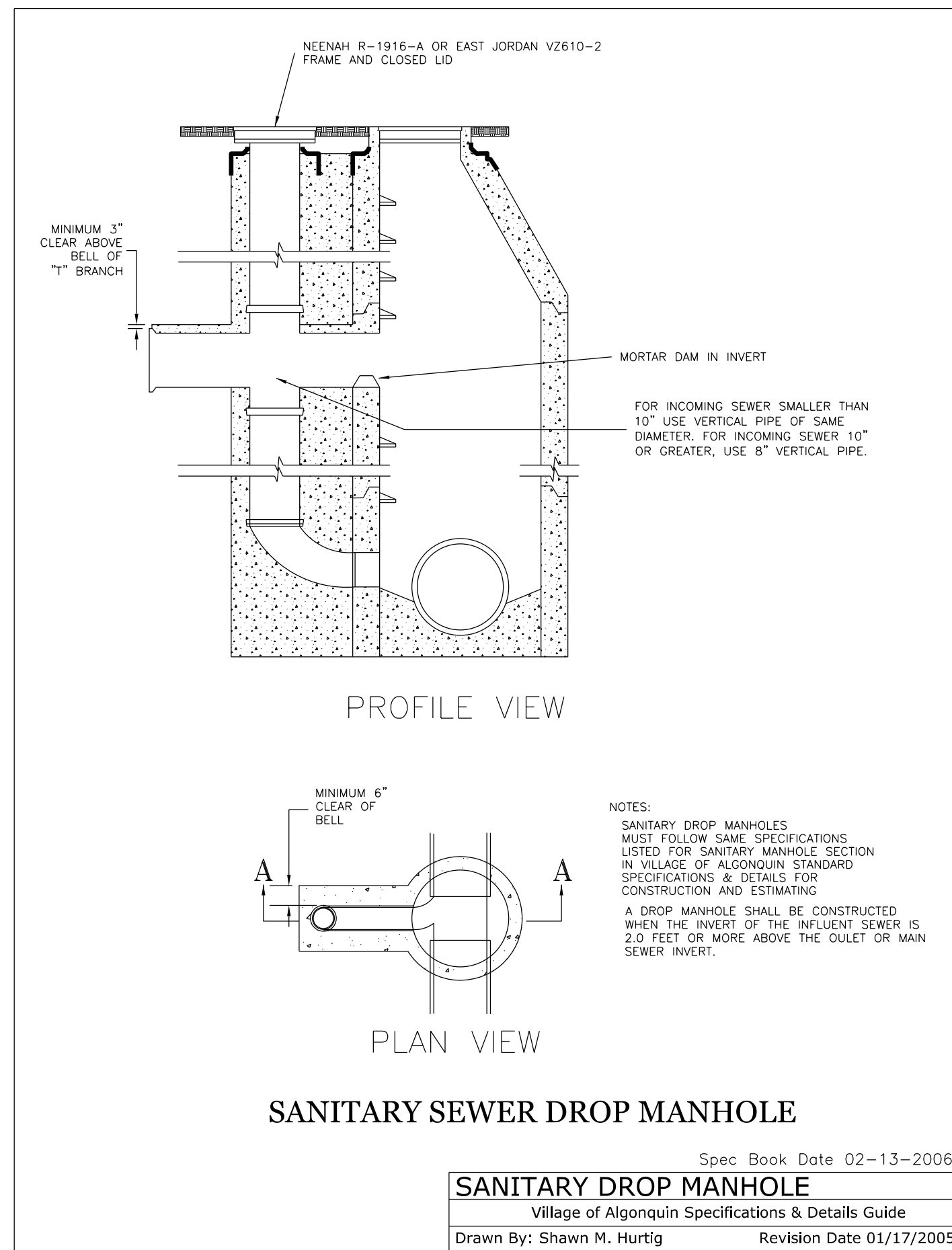
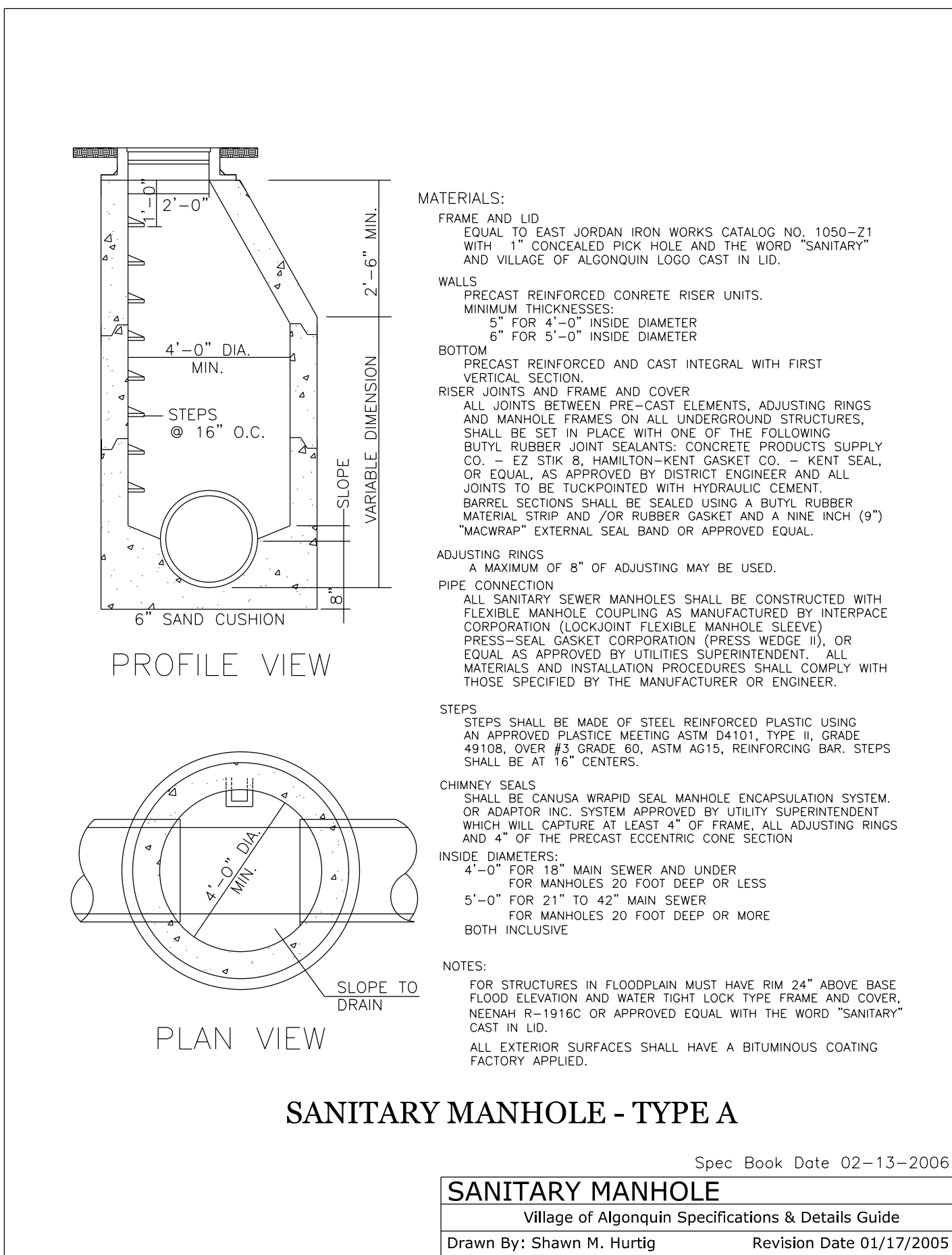
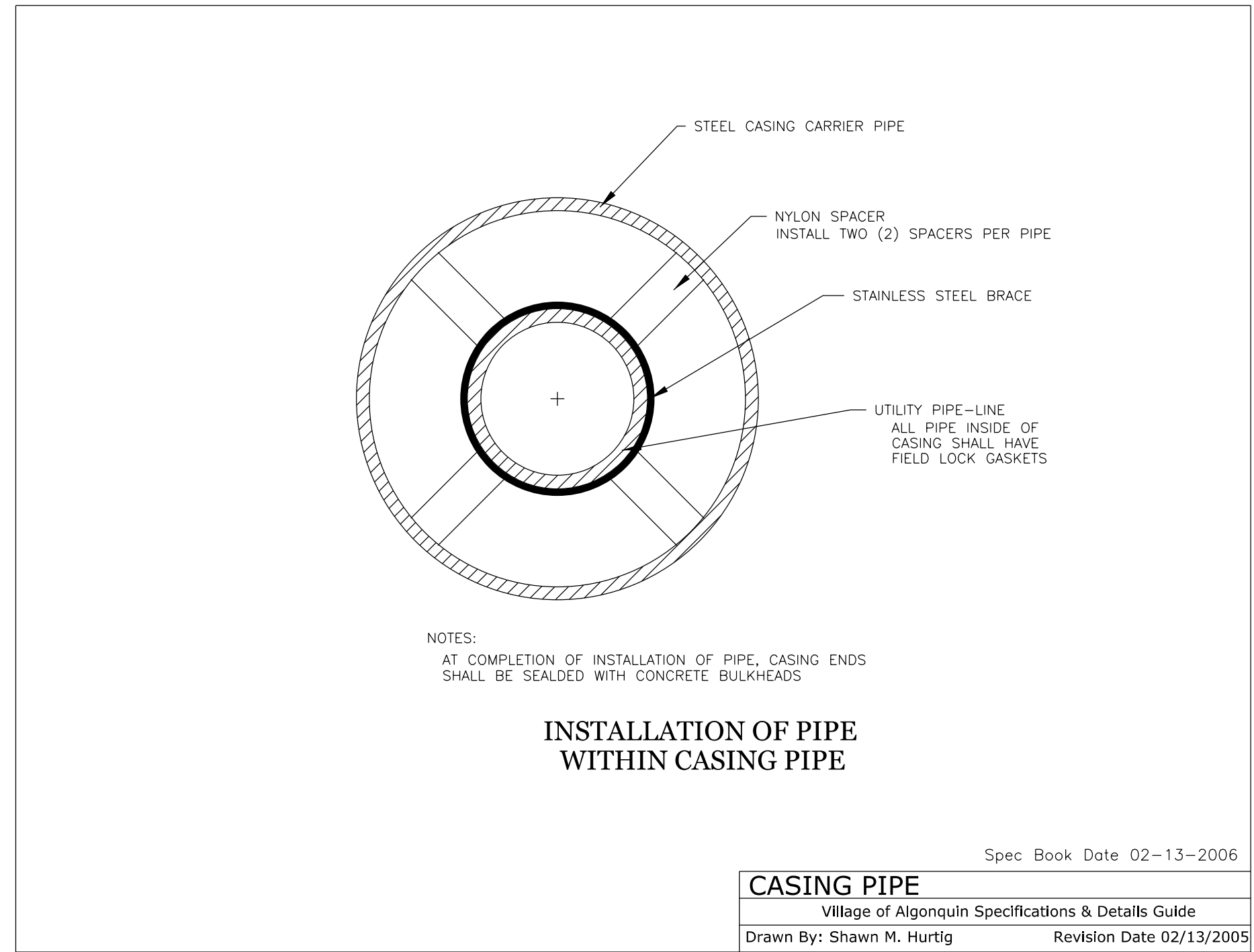
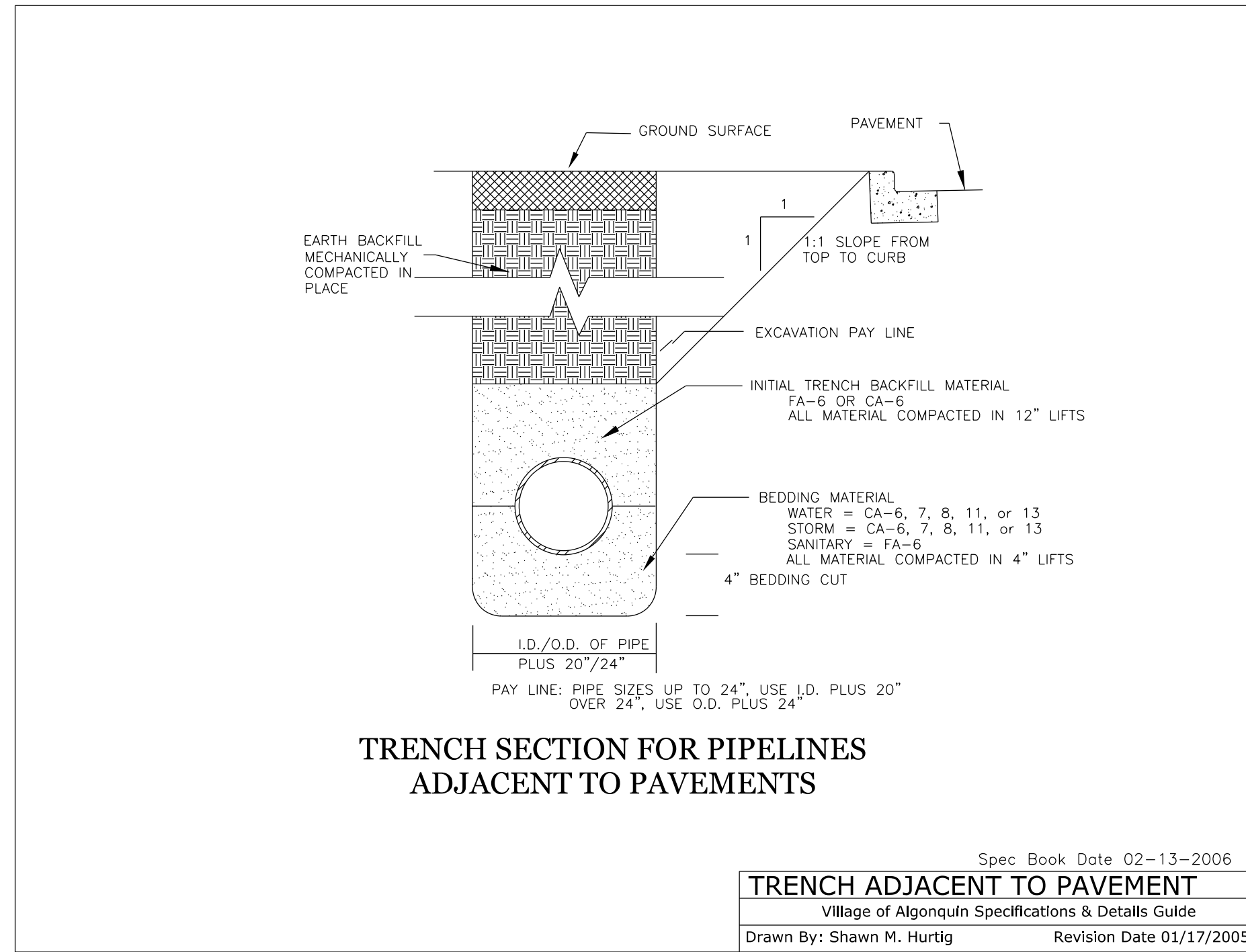
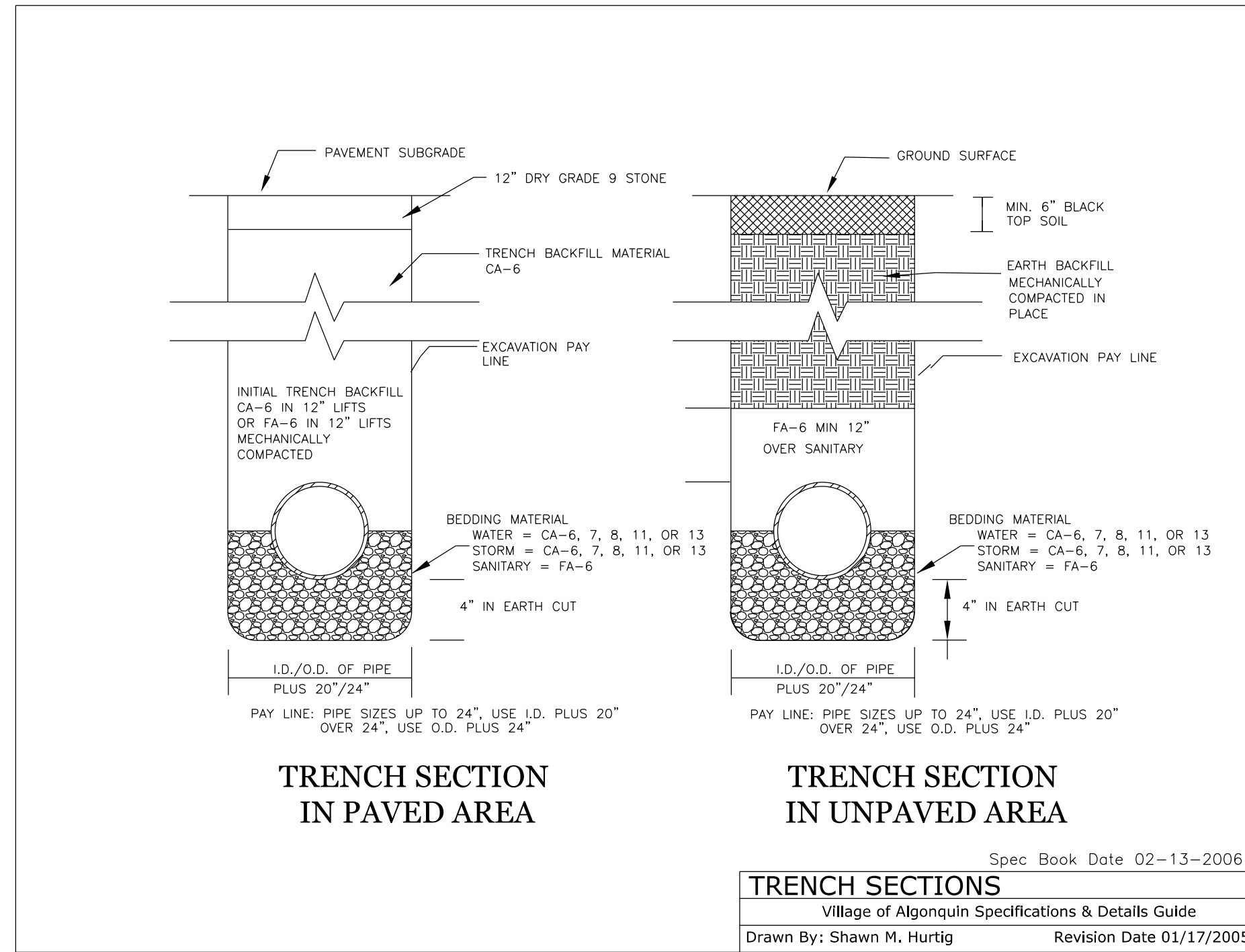
**TROTTER ASSOCIATES, INC.**  
**ENGINEERS AND SURVEYORS**  
 40901 Wood Road, Suite D  
 St. Charles, IL 60175  
 Ph: 630.587.4700 • Fax: 630.587.4715

**Downtown Streetscape Stage 2 Wet Utilities**  
**Restoration Plan**  
**Harrison Street Sta 40+00 to Sta 50+00**  
**Algonquin, McHenry County, Illinois**

Project No.:	ALG028C-1
Base File:	
Sheet File:	C.12.dgn
Issue Date:	8/23/2019
Scale:	1" = 20'
Sheet Number	C.12

DATE	ISSUED FOR CONSTRUCTION
8/23/19	

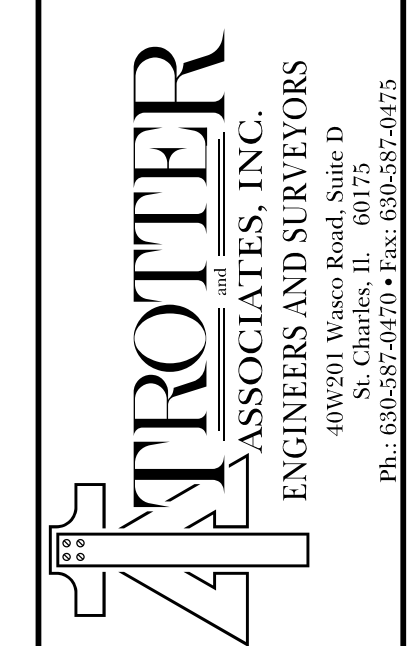


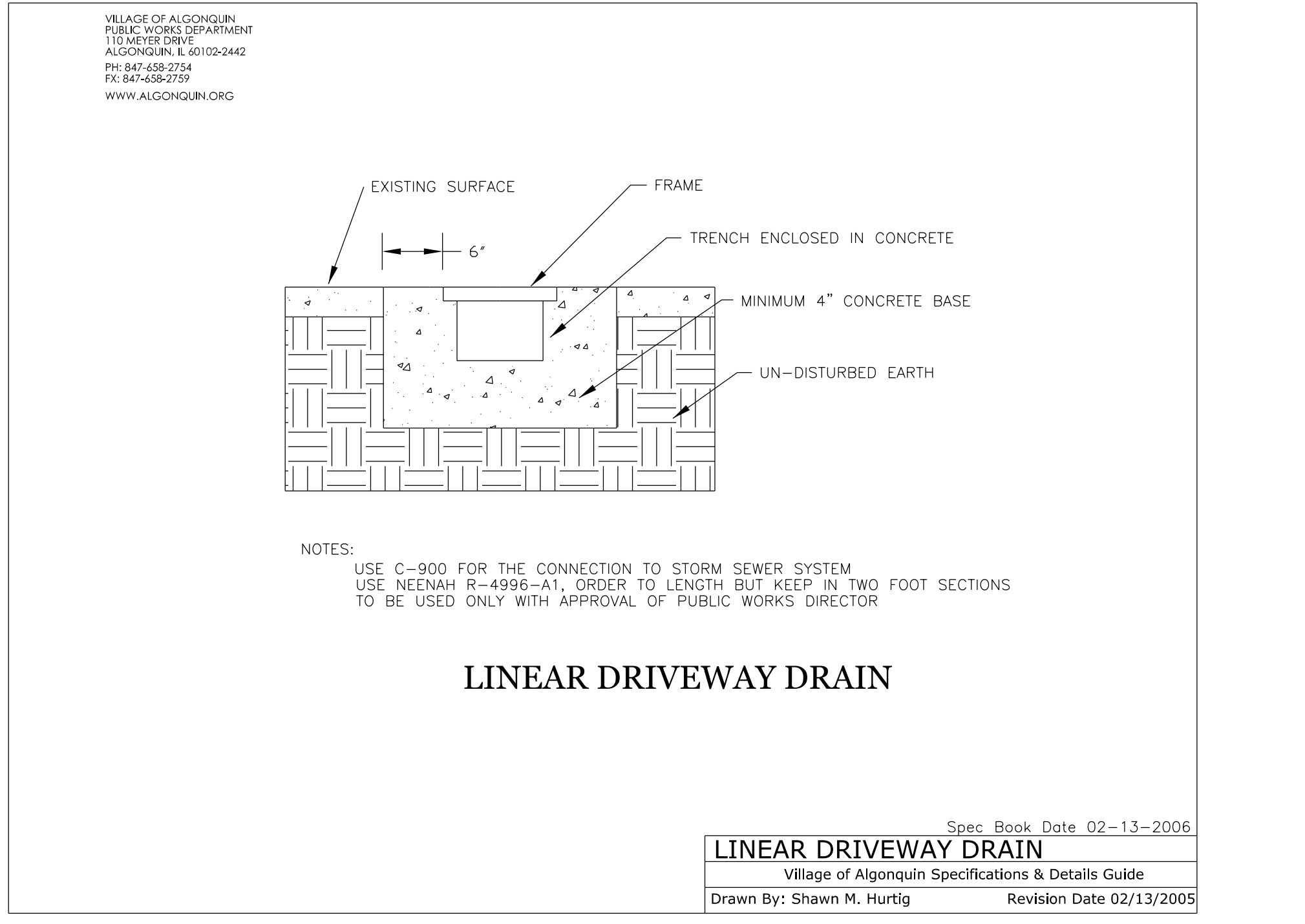
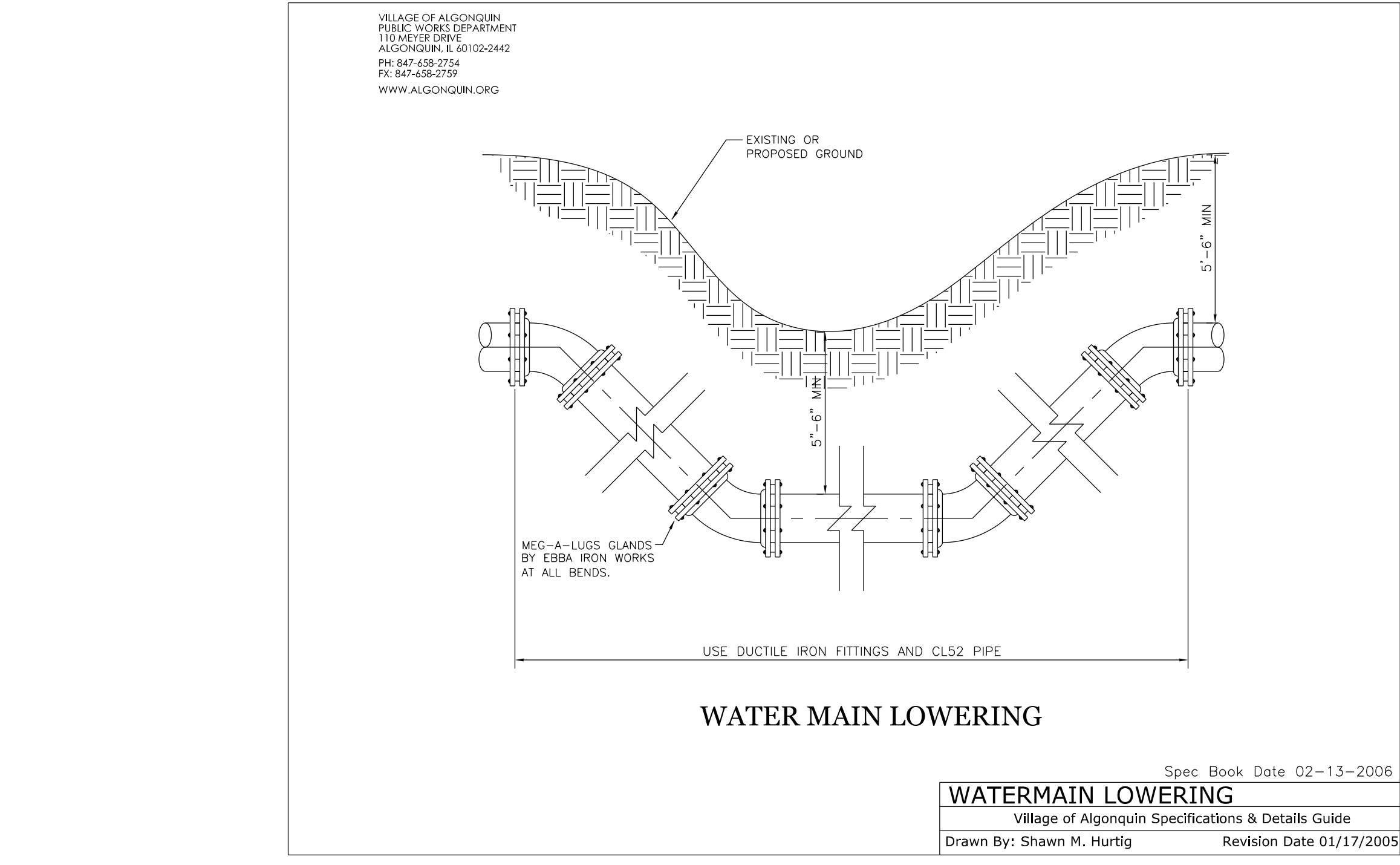
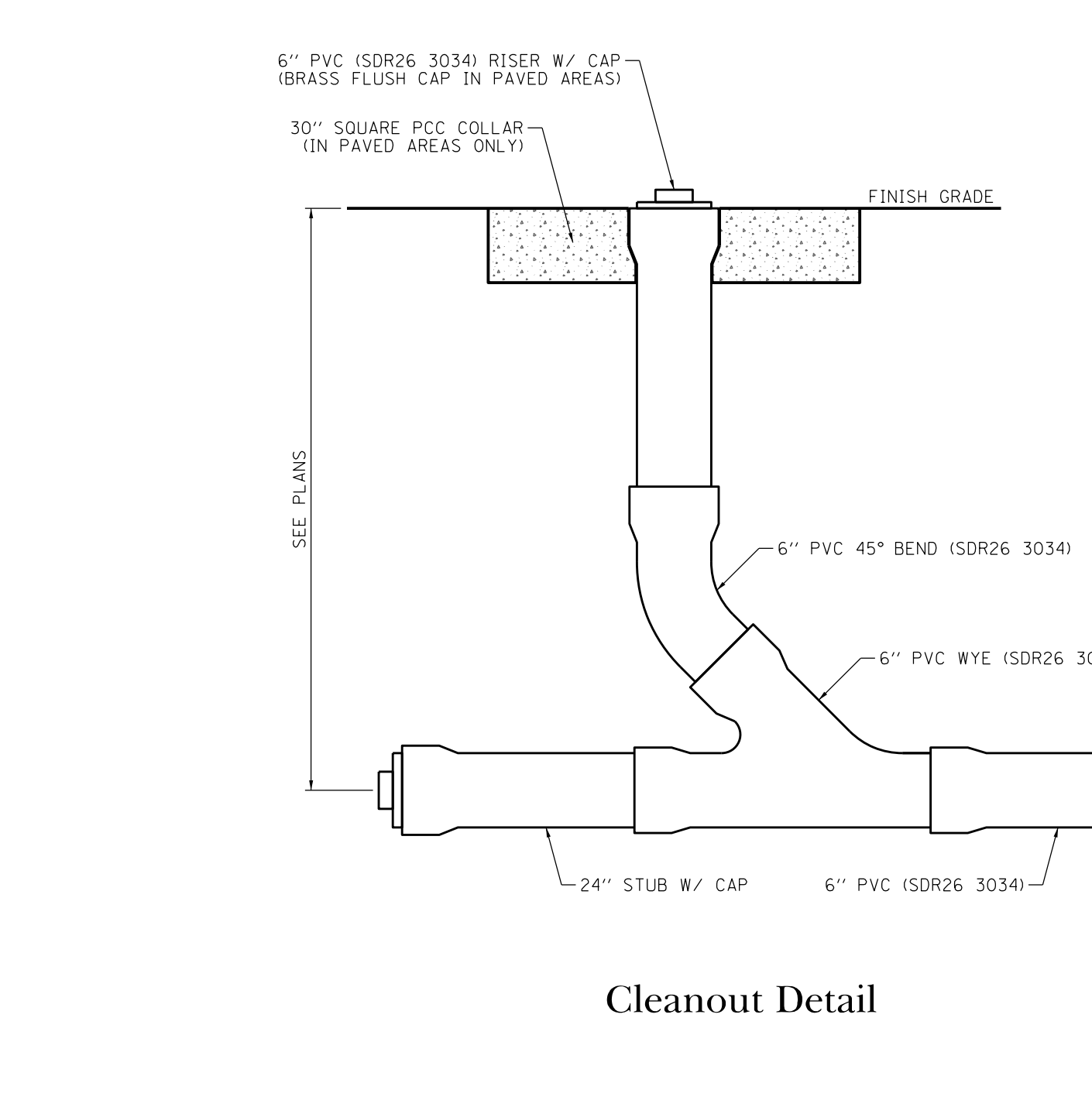
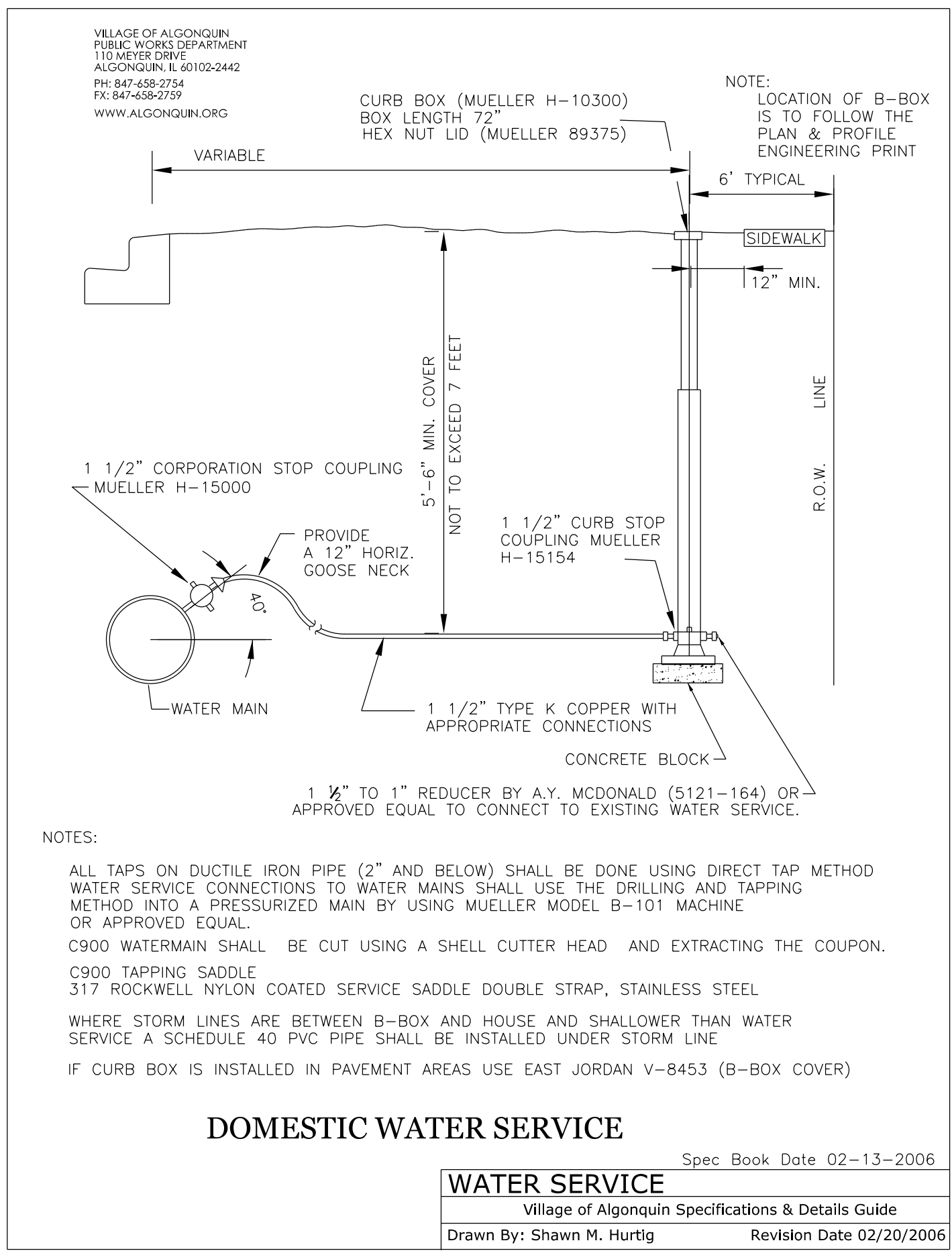
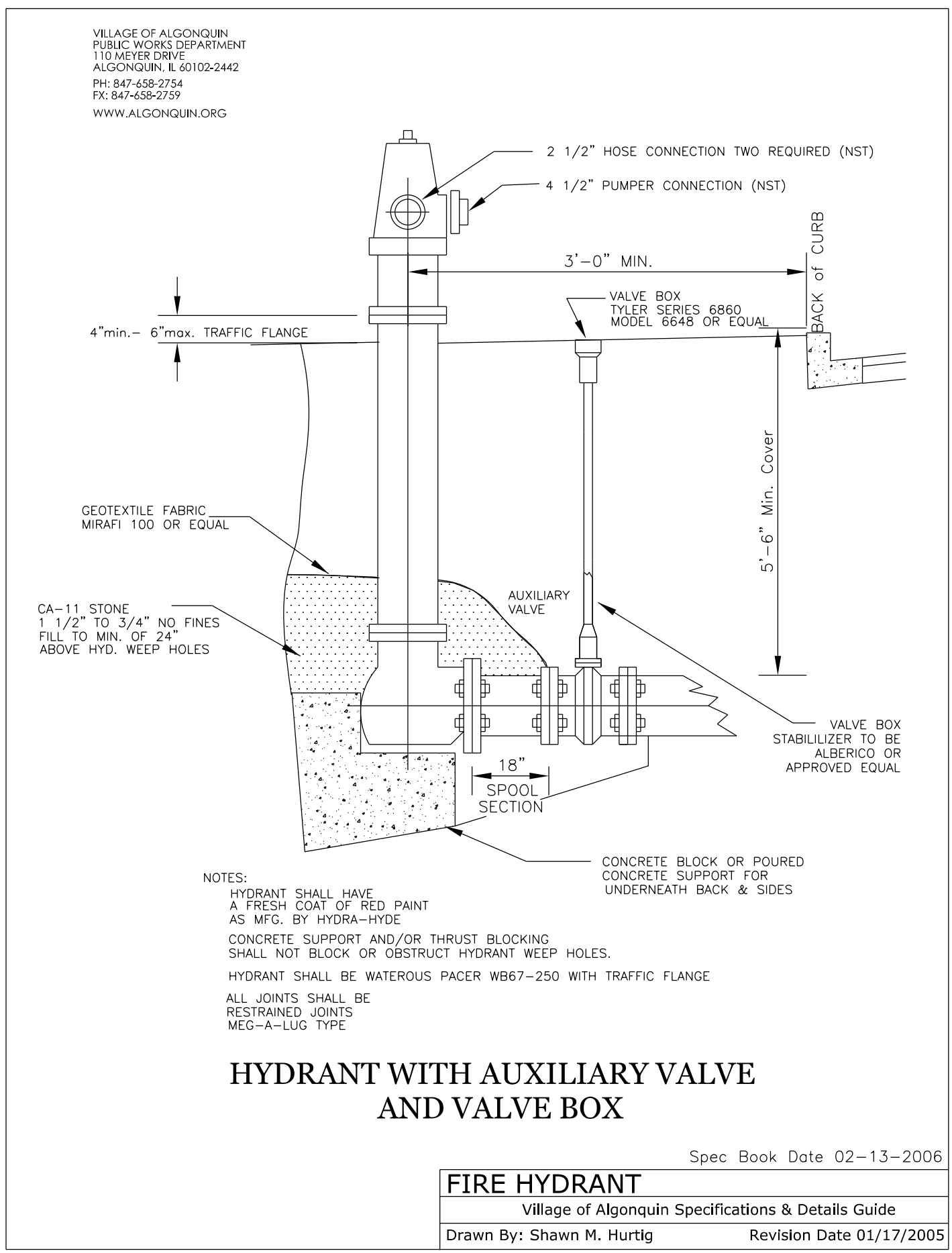
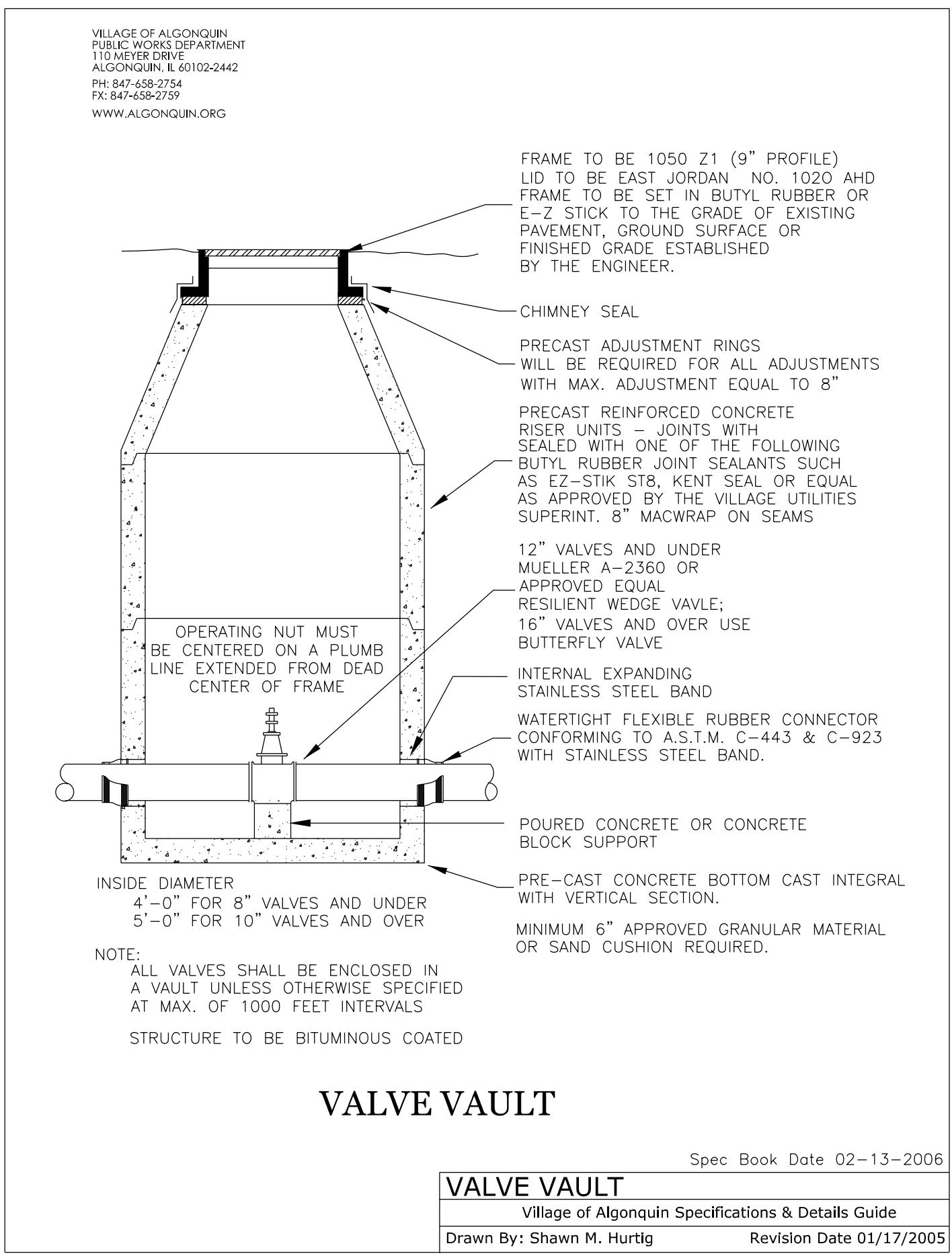
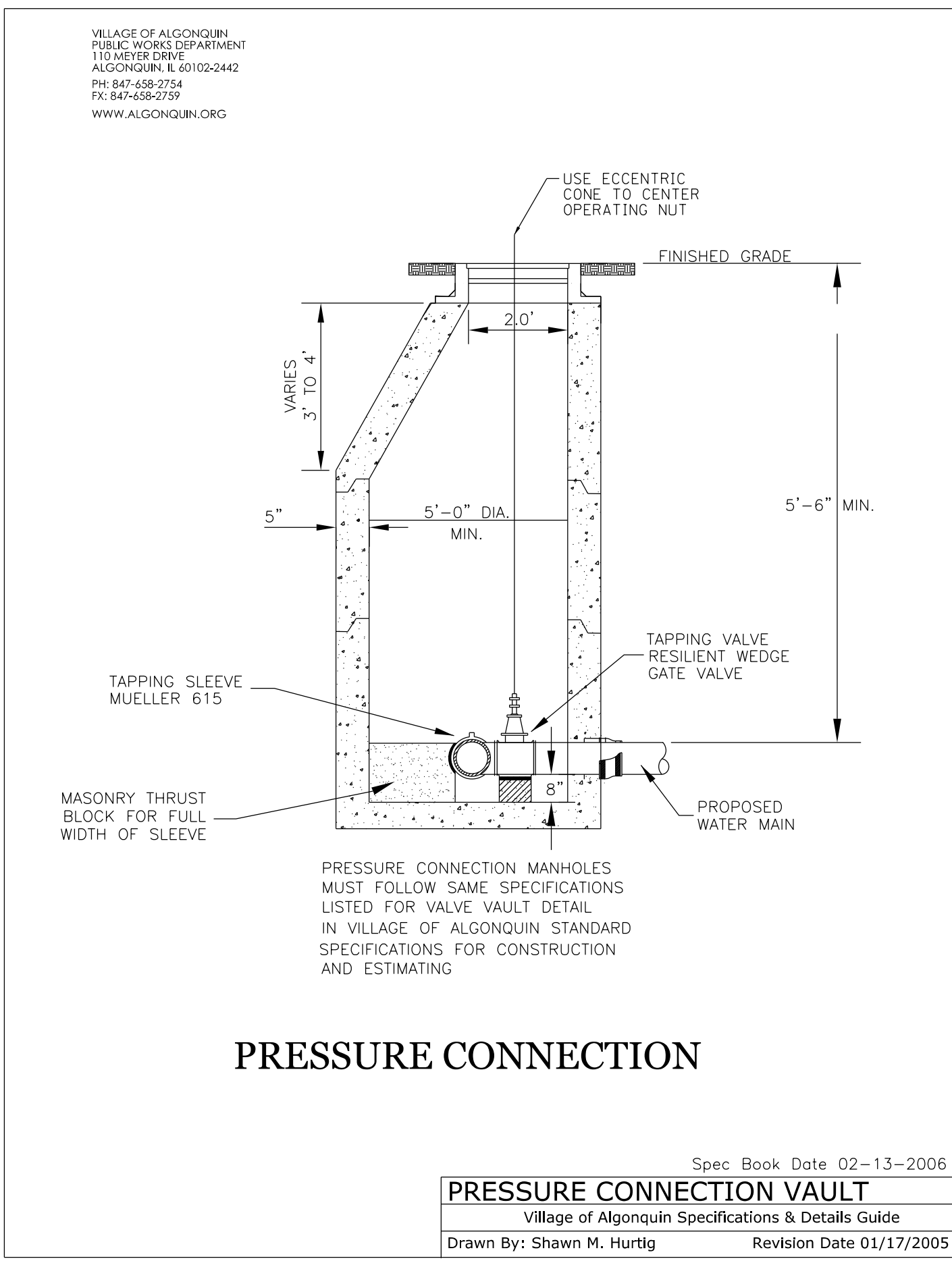


DATE	
ISSUE	
PROJECT STAFF	
PROJECT MANAGER	SCOTT BRETHERTON, P.E.
ENGINEER	TERRY DUFFIN, P.E.
ENGINEER	
ENGINEER	
TECHNICIAN	MIKE WATSON
TECHNICIAN	
ISSUED FOR CONSTRUCTION	8/23/19

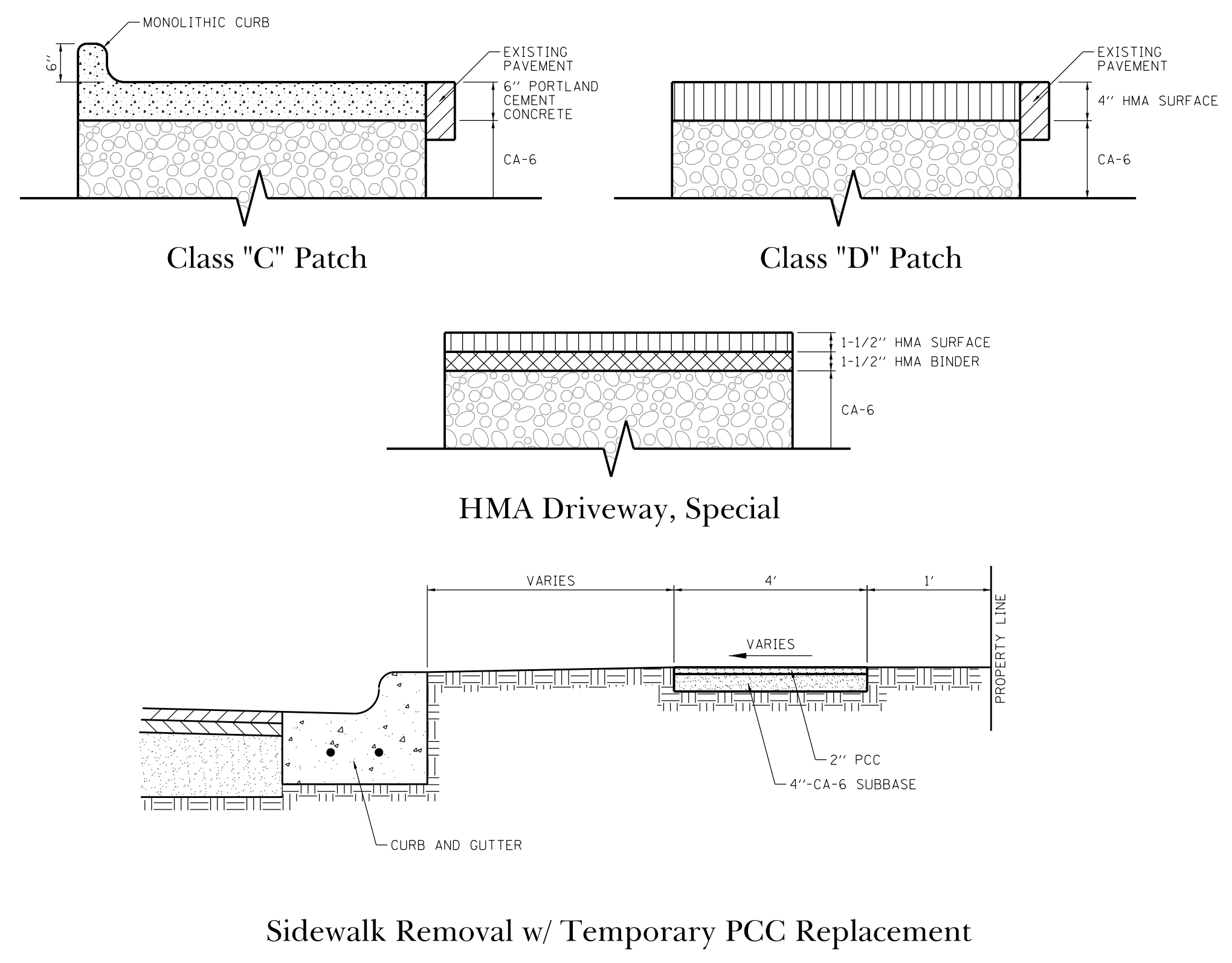
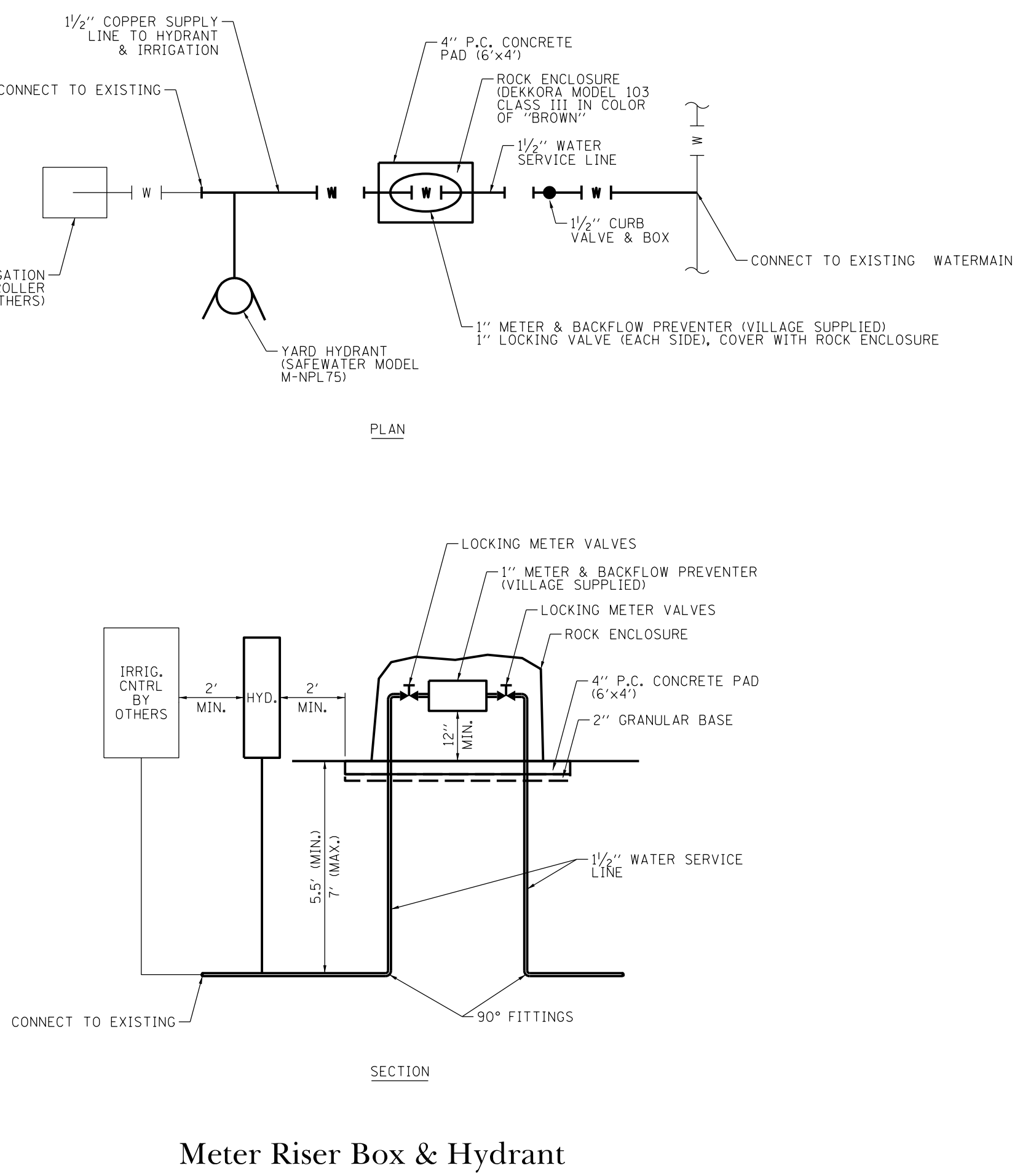
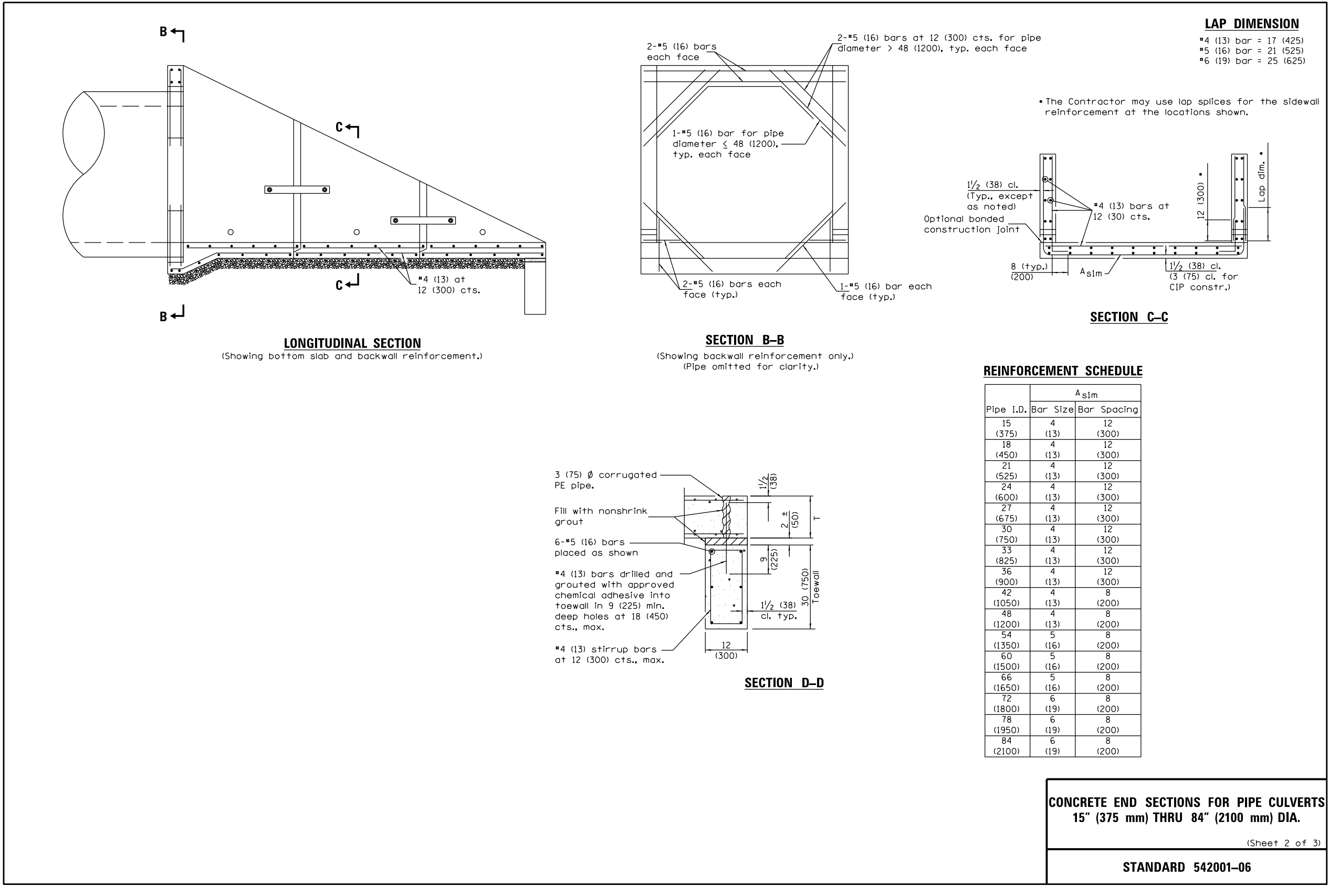
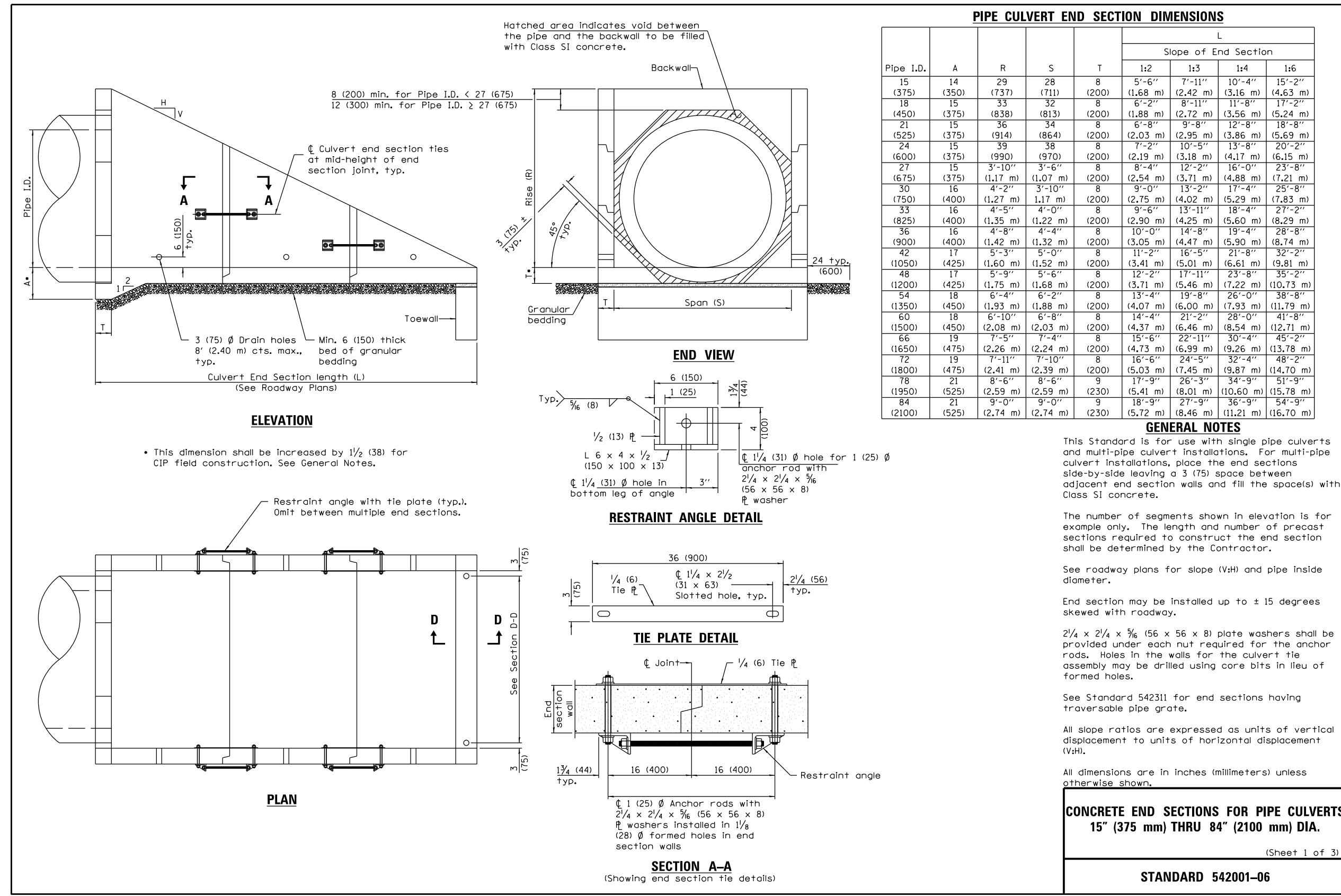
PROJECT NO.	ALG028C-1
BASE FILE	
SHEET FILE	C.13.dgn
ISSUE DATE	8/23/2019
SCALE	N.T.S.
SHEET NUMBER	C.13

Downtown Streetscape Stage 2 Wet Utilities  
 Details  
 Algonquin, McHenry County, Illinois





DATE	8/23/19
ISSUE	0.
PROJECT STAFF	PROJECT MANAGER: SCOTT BROTHERS P.E. ENGINEER: TERRY DUBITANSKI P.E. ENGINEER: JIMMY BROWN ENGINEER: MIKE WATSON TECHNICIAN: JIMMY BROWN
REVISIONS	
 <b>TROTTER ASSOCIATES, INC.</b> ENGINEERS AND SURVEYORS 40501 Wood Road, Suite D St. Charles, IL 60175 PH: 630-582-4400 • FAX: 630-582-4415	
<b>Downtown Streetscape Stage 2 Wet Utilities</b> <b>Details</b> <b>Algonquin, McHenry County, Illinois</b>	
Project No.:	ALG028C-1
Base File:	
Sheet File:	C.14.dgn
Issue Date:	8/23/2019
Scale:	N.T.S.
Sheet Number	C.14



MIXTURE TYPE	AIR VOIDS @ Ndes	QUALITY MANAGEMENT PROGRAM (QMP)
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", NSO (IL 9.5mm)	3.5% @ 50 GYR	QC/OA
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, NSO	3.5% @ 50 GYR	QC/OA
CLASS D PATCHES (HMA BINDER IL-19 mm)	4% @ 50 GYR	QC/OA

THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS./50 YD<sup>3</sup>

PROJECT NO.: ALG028C-1  
 Base File: C.15.dgn  
 Issue Date: 8/23/2019  
 Scale: N.T.S.  
 Sheet Number: C.15

PROJECT MANAGER: SCOTT BRETHERTON, P.E.  
 ENGINEER: TERRY BETHUNE, P.E.  
 ENGINEER: JAMES W. HARRIS, P.E.  
 ENGINEER: JAMES W. HARRIS, P.E.  
 TECHNICIAN: JAMES W. HARRIS, P.E.

**TROTTER ASSOCIATES, INC.**  
 ENGINEERS AND SURVEYORS  
 405001 Wood Road, Suite D  
 St. Charles, IL 60175  
 Ph: (630) 587-0700 • Fax: (630) 587-0715

Downtown Streetscape Stage 2 Wet Utilities  
 Details  
 Algonquin, McHenry County, Illinois

DATE: 8/23/19  
 REVISIONS:  
 ISSUED FOR CONSTRUCTION

**Memorandum**

Village of Algonquin  
Department of Public Works  
Public Works Project Manager  
Shawn M. Hurtig

To: Project Estimators & Contractors  
Date: Tuesday, February 14, 2006

Re: **Iron Requirements**

This memo is to serve as a reference guide for the purchasing of iron for any project falling inside the Village of Algonquin corporate limits. If you have any questions please feel free to contact me.

Sanitary:  
Frame: East Jordan 1050-Z1  
Lid: East Jordan 1050-Z1 Flat Heavy Duty (with Village of Algonquin logo)

Water:  
Frame: East Jordan 1050-Z1  
Lid: East Jordan 1050-Z1 Flat Heavy Duty (with Village of Algonquin logo)

Storm:  
**B6.12 curb installation**  
Frame: East Jordan 7010  
Back: East Jordan 7010-T1  
Grate: East Jordan 7010 - M3 sinusoidal (if slope is greater than 3% use M4 vane)

**Depressed B6.12 installation**

Frame: East Jordan 7065  
Back: East Jordan 7060 - T1  
Grate: East Jordan 7045 - M1

**Pavement or Yard Installation (Solid Lid)**

Frame: East Jordan 1050-Z1  
Lid: East Jordan 1050-Z1 Flat Heavy Duty (w/ Village of Algonquin logo)

**Pavement Installation (Open Lid, to be used only in parking lots)**

Frame: East Jordan 1050-Z1  
Lid: East Jordan 1050-Z1 M1 Flat Heavy Duty

**Yard Installation (Open Lid, low flow)**

Frame: East Jordan 6527

**Yard Installation (Open Lid, high flow)**

Frame: East Jordan 6508

All installations shall receive mastic, external chimney seal, and mortar. Any structure in the pavement must have a recycled rubber adjusting ring (the top ring only to be rubber). Flat tops shall have a 4" ring cast into the top. Please see Village of Algonquin standard details for additional structure info. **NO EXCEPTIONS TO THE ABOVE WITH OUT WRITTEN APPROVAL FROM THE VILLAGE OF ALGONQUIN PROJECT MANAGER OR PUBLIC WORKS DIRECTOR**

Respectfully Submitted,

Shawn M. Hurtig

Village of Algonquin - Public Works Office - 110 Meyer Dr. Algonquin, IL 60102 Office 1-847-658-2754 x-403, Fax 1-847-658-2759  
Y:\Details\2006 Details\Working Draw\Word Documents\Iron Requirements.doc Page 1 of 4

**1050 Frame and Cover**

Heavy Duty  
Machined bearing surfaces  
All covers and grates  
illustrated with 1020 series  
can be furnished with this unit  
Specify type cover or grate

Options:  
Solid, Vented, or  
Classic Covers  
Adjusting Rings  
Light weight  
stacking frame  
available.

COVER TYPE	A Heavy Duty	B Medium Duty
1050	120 lbs (110kg)	105 lbs (95kg)
1050A	120 lbs (110kg)	105 lbs (95kg)

COVER TYPE	A Heavy Duty	B Medium Duty
1050	120 lbs (110kg)	105 lbs (95kg)
1050A	120 lbs (110kg)	105 lbs (95kg)

COVER TYPE	A Heavy Duty	B Medium Duty
1050	120 lbs (110kg)	105 lbs (95kg)
1050A	120 lbs (110kg)	105 lbs (95kg)

COVER TYPE	A Heavy Duty	B Medium Duty
1050	120 lbs (110kg)	105 lbs (95kg)
1050A	120 lbs (110kg)	105 lbs (95kg)

COVER TYPE	A Heavy Duty	B Medium Duty
1050	120 lbs (110kg)	105 lbs (95kg)
1050A	120 lbs (110kg)	105 lbs (95kg)

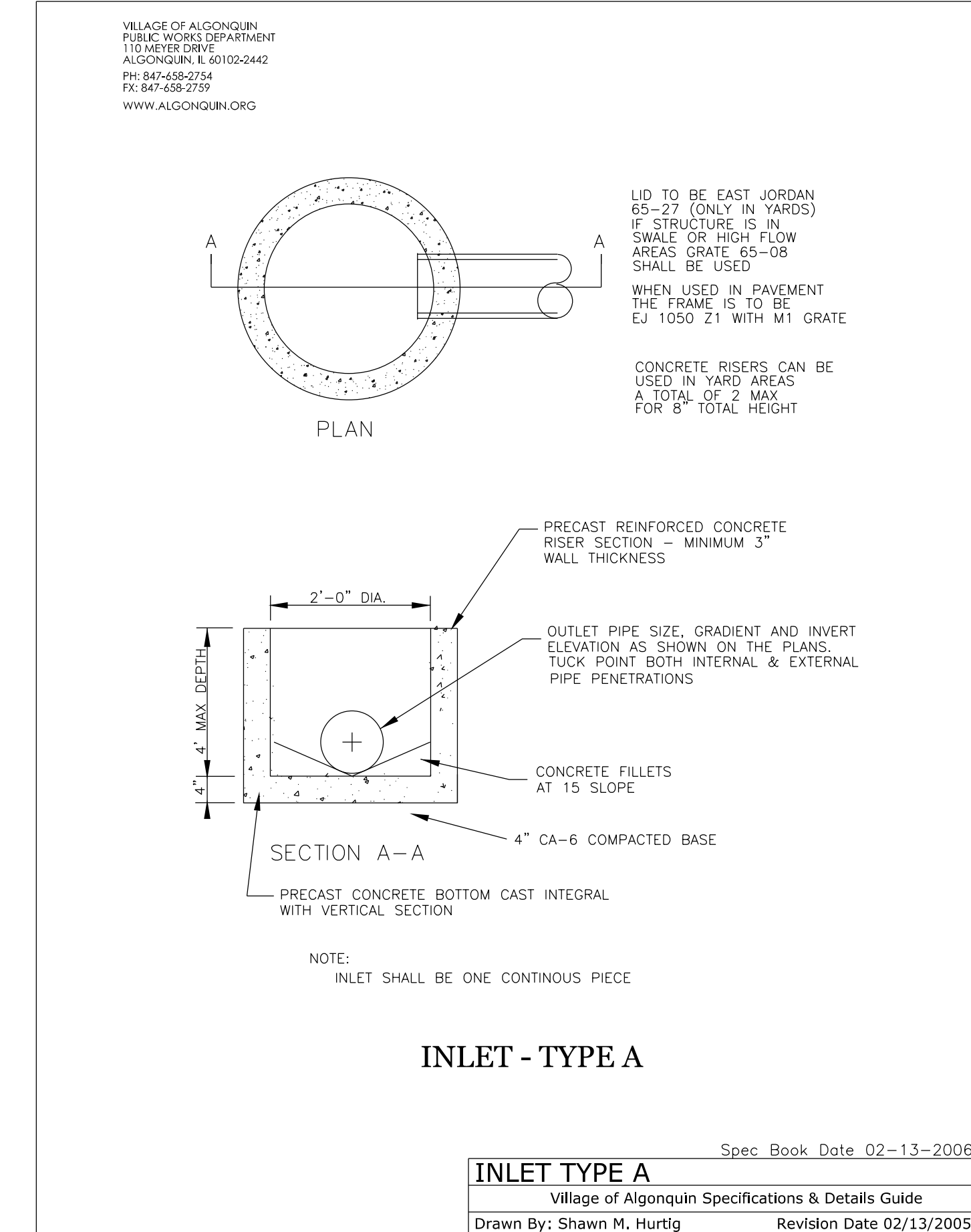
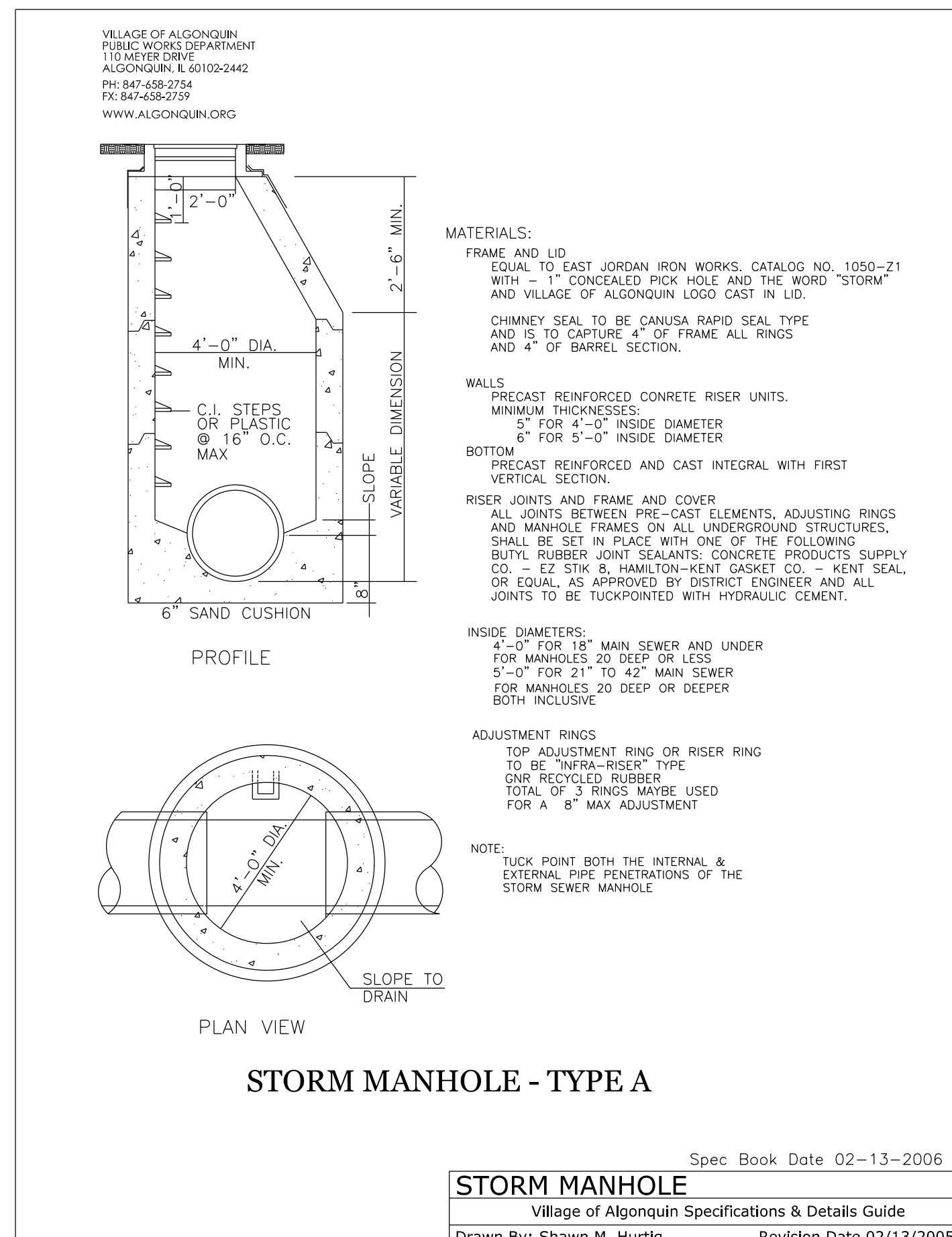
COVER TYPE	A Heavy Duty	B Medium Duty
1050	120 lbs (110kg)	105 lbs (95kg)
1050A	120 lbs (110kg)	105 lbs (95kg)

COVER TYPE	A Heavy Duty	B Medium Duty
1050	120 lbs (110kg)	105 lbs (95kg)
1050A	120 lbs (110kg)	105 lbs (95kg)

COVER TYPE	A Heavy Duty	B Medium Duty
1050	120 lbs (110kg)	105 lbs (95kg)
1050A	120 lbs (110kg)	105 lbs (95kg)

COVER TYPE	A Heavy Duty	B Medium Duty
1050	120 lbs (110kg)	105 lbs (95kg)
1050A	120 lbs (110kg)	105 lbs (95kg)

Village of Algonquin - Public Works Office - 110 Meyer Dr. Algonquin, IL 60102 Office 1-847-658-2754 x-403, Fax 1-847-658-2759  
Y:\Details\2006 Details\Working Draw\Word Documents\Iron Requirements.doc Page 2 of 4



**Memorandum**

Village of Algonquin  
Department of Public Works  
Project Manager  
Shawn M. Hurtig

To: Whom it may concern  
Date: Tuesday, February 14, 2006

Re: **Village of Algonquin Road Criteria**

The list below is what is to be used on all Village of Algonquin roadways. No exceptions to this list will be made without the written consent of the Village of Algonquin Public Works Director.

**LOCAL STREETS**

Surface (1.5")	Binder (2.5")	Base Course (12")
Mixture: N 30 IL 9.5L PG: 68-28 Rap: 15% Max Air Voids: 3% Friction Aggregate: Mix C Mix Weight: 112 lbs/sqyd	Mixture: N 30 IL 19.0L PG: 68-28 Rap: 15% Max Air Voids: 3% Mix Weight: 112 lbs/sqyd	Grade 9

**STANDARD COLLECTOR**

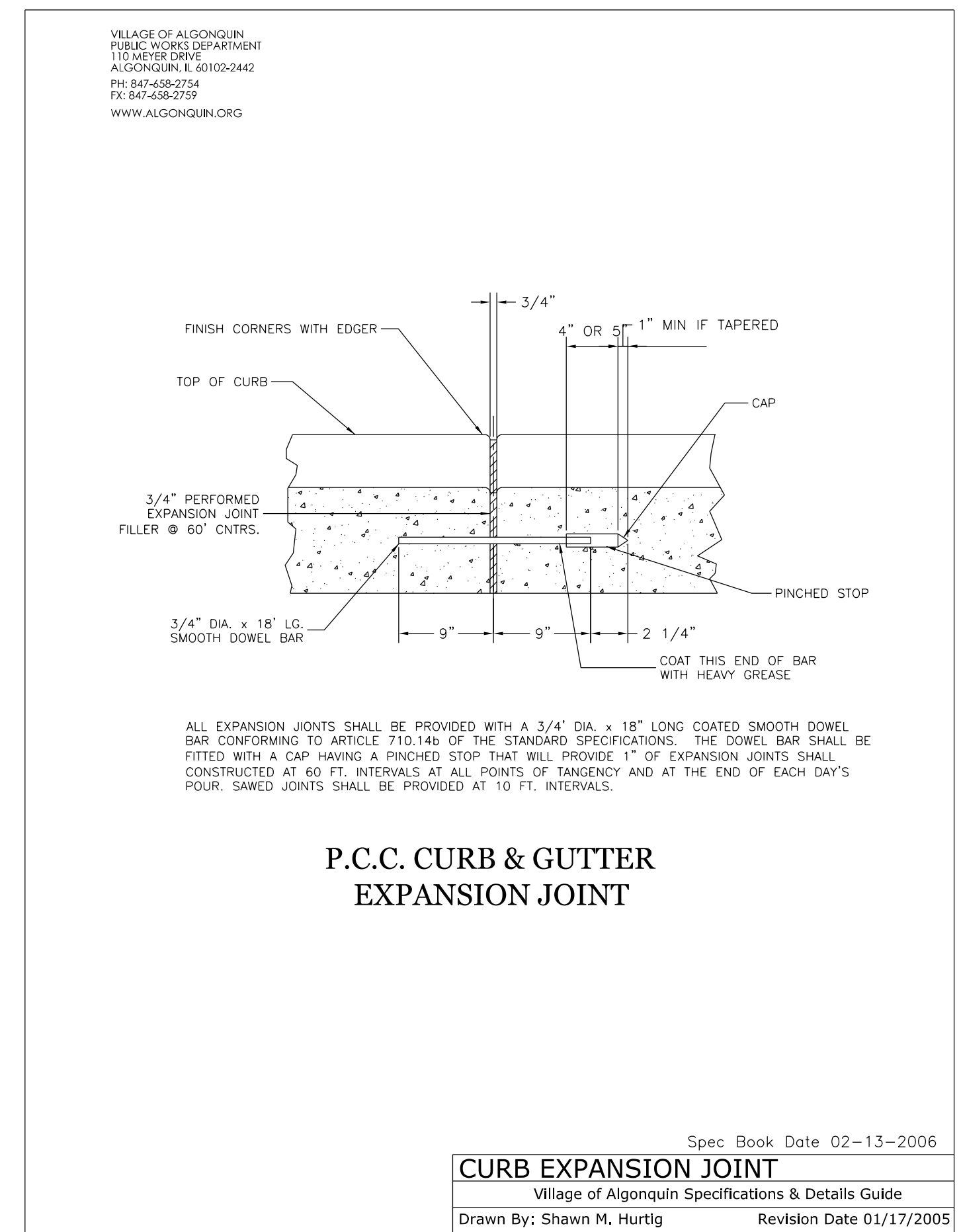
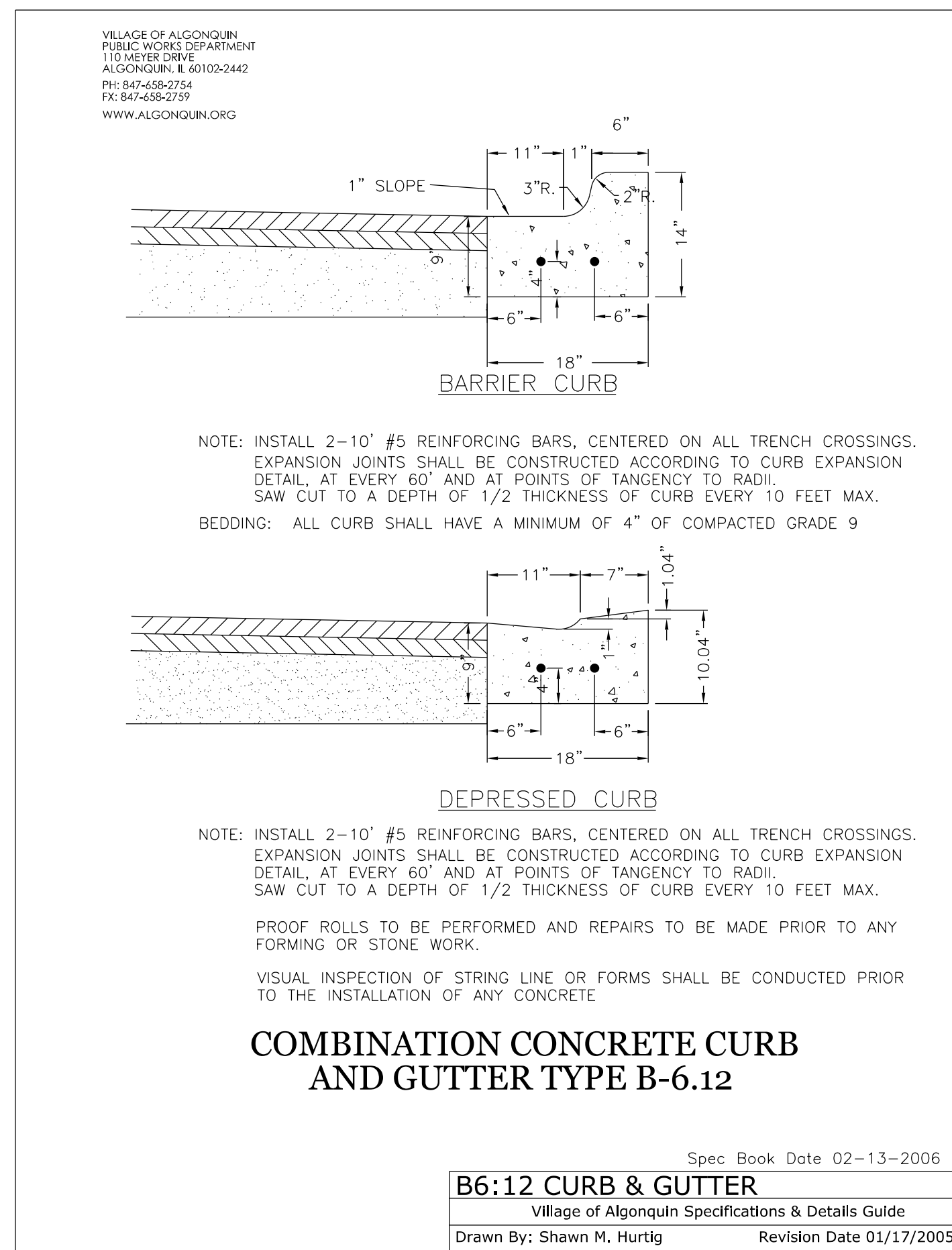
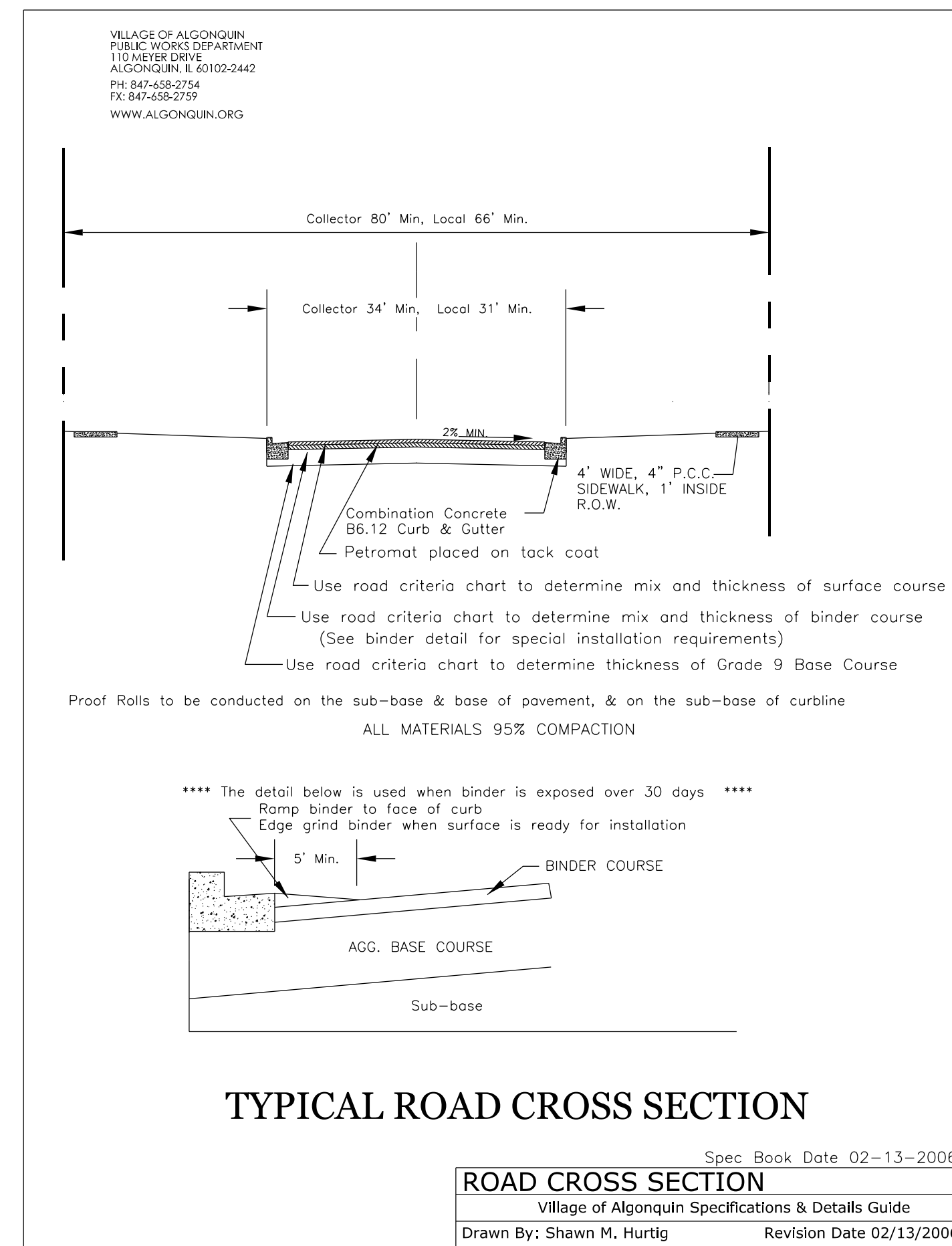
Surface (1.5")	Binder (2.5")	Base Course (14")
Mixture: N 50 IL 9.5 PG: 68-28 Rap: 15% Max Air Voids: 4% Friction Aggregate: Mix D Mix Weight: 112 lbs/sqyd	Mixture: N 50 IL 19.0 PG: 68-28 Rap: 15% Max Air Voids: 4% Mix Weight: 112 lbs/sqyd	Grade 9

**HIGH LEVEL COLLECTOR**

Surface (1.5")	Binder (3.0")	Base Course (14")
Mixture: N 50 IL 12.5 PG: 68-28 Rap: 0% Air Voids: 4% Friction Aggregate: Mix D Mix Weight: 112 lbs/sqyd	Mixture: N 50 IL 19.0 PG: 68-28 Rap: 15% Max Air Voids: 4% Mix Weight: 112 lbs/sqyd	Grade 9

See Article 406.16 in IDOT manual for appropriate breakdown and finish rolling equipment

Village of Algonquin - Public Works Office - 110 Meyer Dr. Algonquin, IL 60102 Office 1-847-658-2754 x-403, Fax 1-847-658-2759  
Y:\Details\2006 Details\Working Draw\Word Documents\Road Criteria Outline.doc



**PROTTER ASSOCIATES, INC.**  
ENGINEERS AND SURVEYORS  
40501 Wood Road, Suite D  
St. Charles, IL 60175  
PH: 630-587-4740 • FAX: 630-587-4745

**Downtown Streetscape Stage 2 Wet Utilities**  
Details  
Algonquin, McHenry County, Illinois

PROJECT MANAGER	SCOTT BENTLEY, P.E.
ENGINEER	TERRY DUFFIN, P.E.
ENGINEER	ANDREW WATSON
TECHNICIAN	ANDREW WATSON
TECHNICIAN	ANDREW WATSON

Project No.: ALG028C-1  
Base File:  
Sheet File: C.16.dgn  
Issue Date: 8/23/2019  
Scale: N.T.S.  
Sheet Number  
**C.16**

VILLAGE OF ALGONQUIN  
PUBLIC WORKS DEPARTMENT  
110 MEYER DRIVE  
ALGONQUIN, IL 60102-2442  
PH: 847-658-2754  
FX: 847-658-2759  
WWW.ALGONQUIN.ORG

CONSTRUCTION JOINTS SHALL BE PLACED IN A UNIFORM MANNER THAT ALLOWS NO SINGLE SLAB BE MORE THAN 10 FOOT BY 10 FOOT DIMENSIONALLY WHERE PROPOSED ENTRANCE IS FRONTED BY BARRIER CURB OR THERE IS A DESIRE TO CHANGE ANY PORTION OF THE EXISTING CURB AND GUTTER CROSS SECTION, SAID CURB AND GUTTER SHALL BE REMOVED FOR THE MAXIMUM STREET OPENING (SEE DIMENSION "X") IN ITS ENTIRETY. EXISTING CURB AND GUTTER SHALL BE SAW CUT AT EACH END PRIOR TO REMOVAL. REPLACEMENT SHALL BE DEPRESSED CURB AND GUTTER OF SAME CROSS SECTIONAL WIDTH AS THE EXISTING CURB AND GUTTER. TRANSITION FROM FULL TO DEPRESSED CURB SHALL BE ACCOMPLISHED IN A MINIMUM OF 1 LINEAL FOOT. A MINIMUM OF 4" OF DRY GRADE 9 OR EQUAL MUST BE PLACED AND COMPACTED PRIOR TO ANY CONCRETE POURING. THIS BASE MUST ALSO BE APPROVED BY THE FIELD ENGINEER OR INSPECTOR OF THE VILLAGE. ANY DEVIATION FROM THE ABOVE DETAILED OR SPECIFIED SHALL BE ONLY WITH WRITTEN APPROVAL OF THE PUBLIC WORKS DIRECTOR APRON IS TO BE POURED SEPARATELY FROM SIDEWALK & CURB

**COMMERCIAL/INDUSTRIAL ENTRANCE**

Spec Book Date 02-13-2006  
**COMMERCIAL / INDUSTRIAL APRON**  
Village of Algonquin Specifications & Details Guide  
Drawn By: Shawn M. Hurltg Revision Date 02/13/2006

VILLAGE OF ALGONQUIN  
PUBLIC WORKS DEPARTMENT  
110 MEYER DRIVE  
ALGONQUIN, IL 60102-2442  
PH: 847-658-2754  
FX: 847-658-2759  
WWW.ALGONQUIN.ORG

CONSTRUCTION JOINTS SHALL BE PLACED IN A UNIFORM MANNER THAT ALLOWS NO SINGLE SLAB BE MORE THAN 10 FOOT BY 10 FOOT DIMENSIONALLY WHERE PROPOSED ENTRANCE IS FRONTED BY BARRIER CURB OR THERE IS A DESIRE TO CHANGE ANY PORTION OF THE EXISTING CURB AND GUTTER CROSS SECTION, SAID CURB AND GUTTER SHALL BE REMOVED FOR THE MAXIMUM STREET OPENING (SEE DIMENSION "X") IN ITS ENTIRETY. EXISTING CURB AND GUTTER SHALL BE SAW CUT AT EACH END PRIOR TO REMOVAL. REPLACEMENT SHALL BE DEPRESSED CURB AND GUTTER OF SAME CROSS SECTIONAL WIDTH AS THE EXISTING CURB AND GUTTER. TRANSITION FROM FULL TO DEPRESSED CURB SHALL BE ACCOMPLISHED IN A MINIMUM OF 1 LINEAL FOOT. A MINIMUM OF 4" OF DRY GRADE 9 OR EQUAL MUST BE PLACED AND COMPACTED PRIOR TO ANY CONCRETE POURING. THIS BASE MUST ALSO BE APPROVED BY THE FIELD ENGINEER OR INSPECTOR OF THE VILLAGE. ANY DEVIATION FROM THE ABOVE DETAILED OR SPECIFIED SHALL BE ONLY WITH WRITTEN APPROVAL OF THE PUBLIC WORKS DIRECTOR APRON IS TO BE POURED SEPARATELY FROM SIDEWALK & CURB

**RESIDENTIAL ENTRANCE**

Spec Book Date 02-13-2006  
**RESIDENTIAL APRON**  
Village of Algonquin Specifications & Details Guide  
Drawn By: Shawn M. Hurltg Revision Date 02/13/2006

VILLAGE OF ALGONQUIN  
PUBLIC WORKS DEPARTMENT  
110 MEYER DRIVE  
ALGONQUIN, IL 60102-2442  
PH: 847-658-2754  
FX: 847-658-2759  
WWW.ALGONQUIN.ORG

NOTES:  
1. THE CONCRETE SIDEWALK SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 424 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.  
2. THE CONCRETE SHALL CONFORM TO ARTICLE 1020 AND SHALL BE A HAVE A 5-INCH SLUMP AND SHALL DEVELOPE A MINIMUM OF 3,500 PSI COMPRESSIVE STRENGTH A 14 DAYS.  
3. THE SIDEWALK PORTION OF THE DRIVEWAY SHALL MATCH THE DEPTH OF THE DRIVEWAY AND BE POURED SEPARATELY.  
4. NO CHLORIDE ADDITIVE WILL BE PERMITTED IN THE CONCRETE.  
5. ALL SIDEWALKS MUST CONFORM TO THE AMERICANS WITH DISABILITIES ACT. THE MAXIMUM ALLOWABLE SLOPE IS 1:20.  
6. TOOLED CONTROL JOINTS SHALL BE INSTALLED AT 5' CENTERS.  
7. FIBER EXPANSION JOINTS SHALL BE INSTALLED AT 50' CENTERS MAX AND WHERE THE SIDEWALK ABUTTS CURB OR EXISTING SIDEWALK, AND AT THE END OF EACH POUR.  
8. THE SIDEWALK SHALL HAVE A BROOM FINISH.  
9. A PROTECTIVE SURFACE TREATMENT CONSISTENT TO IDOT ARTICLE 420.21 SHALL BE APPLIED.

**SIDEWALKS**

Spec Book Date 02-13-2006  
**SIDEWALK**  
Village of Algonquin Specifications & Details Guide  
Drawn By: Shawn M. Hurltg Revision Date 01/17/2005

VILLAGE OF ALGONQUIN  
PUBLIC WORKS DEPARTMENT  
110 MEYER DRIVE  
ALGONQUIN, IL 60102-2442  
PH: 847-658-2754  
FX: 847-658-2759  
WWW.ALGONQUIN.ORG

NOTES:  
REFERENCE IDOT STANDARD 424001-03 ALL SIDEWALKS SHALL CONFORM TO THE ILLINOIS ACCESSIBILITY CODE  
RAMPS SHALL BE LOCATED AS SHOWN ON PLANS WITH CONSIDERATION GIVEN TO ALIGNMENT WITH NORMAL SIDEWALK OR CROSSWALK AND MAINTENANCE OF SUFFICIENT CURB LENGTH AT CORNER RADII TO PREVENT VEHICULAR ENCRoACHMENT.  
RAMPS SHALL NOT HAVE A SLOPE GREATER THAN 1" PER FT. EXCEPT WHERE BUILDINGS OR OTHER RESTRICTIONS WILL NOT PERMIT.  
THICKNESS OF RAMPS WILL BE THE SAME AS THE ADJACENT SIDEWALK WITH A MINIMUM OF 4" AND WILL BE PAID FOR AT THE UNIT PRICE PER SQUARE FOOT FOR P.C. CONCRETE SIDEWALK OF THICKNESS SPECIFIED. PRICE SHALL INCLUDE ALL REQUIRED EXPANSION JOINTS AND VARIABLE HEIGHT EDGE TREATMENT.

NOTE:  
THE CONTRACTOR SHALL CONSTRUCT RAMPS AT ALL INTERSECTIONS. RAMPS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE BID FOR SIDEWALKS

**SIDEWALK RAMPS FOR THE HANDICAPPED**

Spec Book Date 02-13-2006  
**SIDEWALK RAMPS**  
Village of Algonquin Specifications & Details Guide  
Drawn By: Shawn M. Hurltg Revision Date 01/17/2005

VILLAGE OF ALGONQUIN  
PUBLIC WORKS DEPARTMENT  
110 MEYER DRIVE  
ALGONQUIN, IL 60102-2442  
PH: 847-658-2754  
FX: 847-658-2759  
WWW.ALGONQUIN.ORG

Seed: 300 Lbs/Acre (50% Kentucky Bluegrass, 30% Perennial Rye, 20% Red Fescue)  
Fertilizer: 90 Lbs/Acre Nitrogen, 90 Lbs/Acre Potassium  
Turf Erosion Control Blanket

NOTES:  
Contractor shall guarantee the seeding for a period of one growing season for the Date of Substantial Completion of total project for any loss due to faulty materials, workmanship, or procedures.  
If any seeding must be performed later than the scheduled periods the contractor shall also guarantee these seeded areas from loss due to weather conditions for a period of one growing season from the date of substantial completion.  
Seeding must be performed between May 1st & June 15th or between September 1st and October 15th.

**RESTORATION**

Spec Book Date 02-13-2006  
**RESTORATION**  
Village of Algonquin Specifications & Details Guide  
Drawn By: Shawn M. Hurltg Revision Date 01/17/2005

VILLAGE OF ALGONQUIN  
PUBLIC WORKS DEPARTMENT  
110 MEYER DRIVE  
ALGONQUIN, IL 60102-2442  
PH: 847-658-2754  
FX: 847-658-2759  
WWW.ALGONQUIN.ORG

NOTES:  
1. ALL SIGNAGE IS TO BE PLACED 3 (THREE) FEET BEHIND BACK OF CURB OR EDGE OF SHOULDER  
2. ALL SIGNS ARE TO BE FACED CORRECTLY  
3. ALL SIGNS SHALL BE CLEAN AND READABLE  
4. ALL EXISTING SIGNAGE SHALL BE INSTALLED IN SOME FASHION AT THE END OF EACH WORKING DAY  
5. ALL SIGNS SHALL MEET THE M.U.T.C.D. CODE  
6. ALL SIGNS ARE TO BE MADE OF DIAMOND GRADE REFLECTIVE SHEETING

**VILLAGE STREET SIGNAGE**

Spec Book Date 02-13-2006  
**STREET SIGNAGE**  
Village of Algonquin Specifications & Details Guide  
Drawn By: Shawn M. Hurltg Revision Date 01/17/2005

Village of Algonquin  
Department of Public Works  
Public Works Project Manager  
Shawn M. Hurltg

To: Contractors, Engineers, & Developers  
Date: Tuesday, February 14, 2006  
Re: Mailbox Installation Guide

**Memorandum**

**Mailbox Installation Guide**

1. The height of the mailbox should be 42" - 44" from the top of the street surface. (Not from top of the curb.)  
2. The face of the door (closed) of the mailbox should be flush with or within 4" of the curb or edge of curb. It must not extend over the edge of the road.  
3. Your address should be placed on the door of the mailbox.  
4. The approach to the mailbox must be kept clear for the postal delivery vehicle to service the mailbox and drive away without having to back up.  
5. Mailbox posts shall not be reinforced or fortified so as to prevent or hamper its destruction upon being struck by a vehicle. (Therefore no masonry or stone bases.)

These specifications were provided to the Village of Algonquin by the United States Post Office. If you have any questions concerning the location and placement of your curbside mailbox, please contact the Algonquin Post Office at 847-658-0012.

Respectfully Submitted:  
Shawn M. Hurltg  
Shawn M. Hurltg

Village of Algonquin - Public Works Office - 125 Wilmet St. Algonquin, IL 60102 Office 1-847-658-2754 x-401, Fax 1-847-658-2759  
Y:\Data\2006 Data\Working Dept\Word Documents\Box Installation Guide.doc

Project No.: ALG028C-1  
Base File: C:\17.dgn  
Sheet File: C:\17.dgn  
Issue Date: 8/23/2019  
Scale: N.T.S.  
Sheet Number  
**C.17**

PROJECT STAFF  
PROJECT MANAGER: SHAWN M. HURLTG, P.E.  
ENGINEER: TERRY DITTMAR, P.E.  
ENGINEER: SHAWN M. HURLTG  
TECHNICIAN: SHAWN M. HURLTG  
TECHNICIAN: SHAWN M. HURLTG

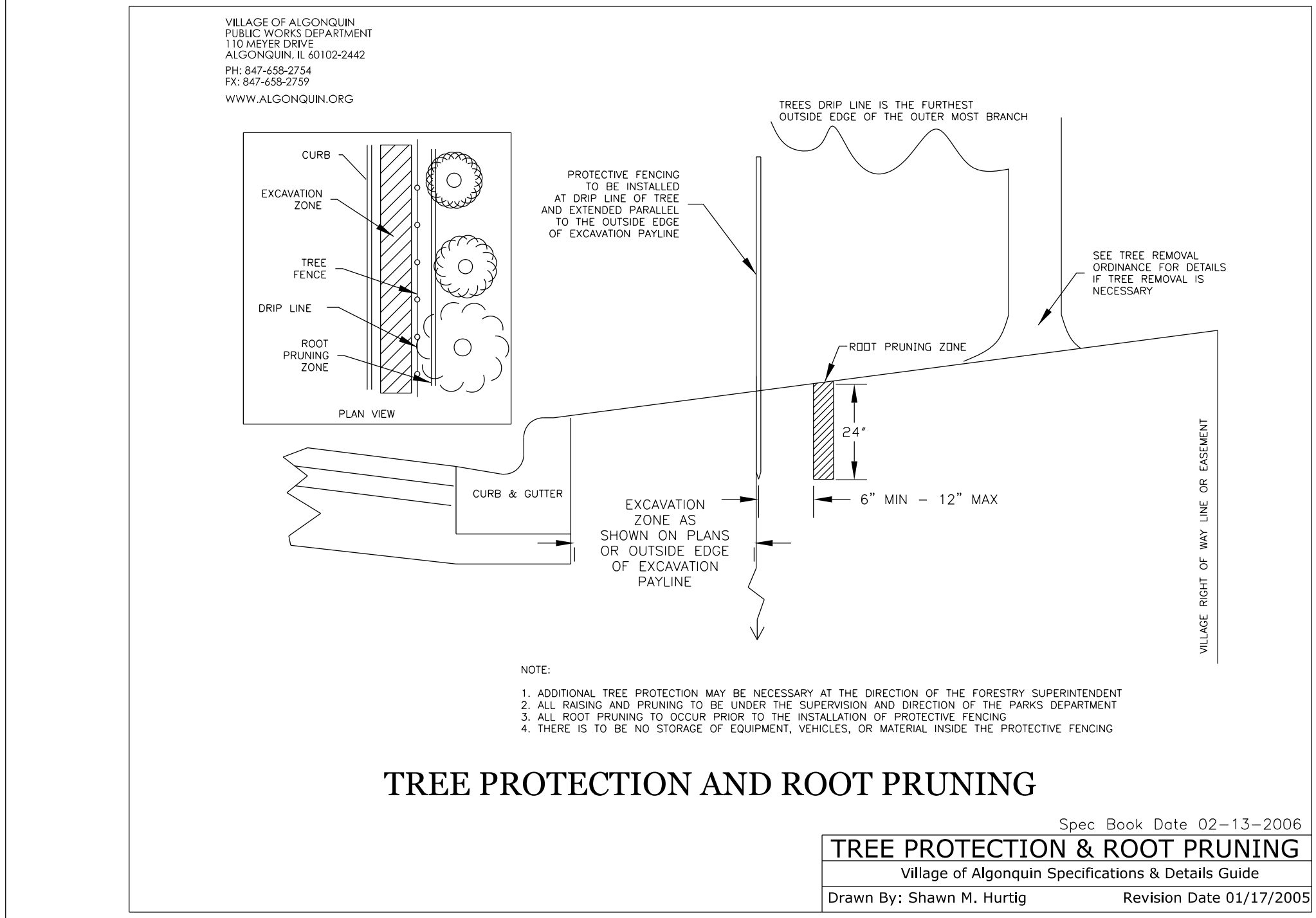
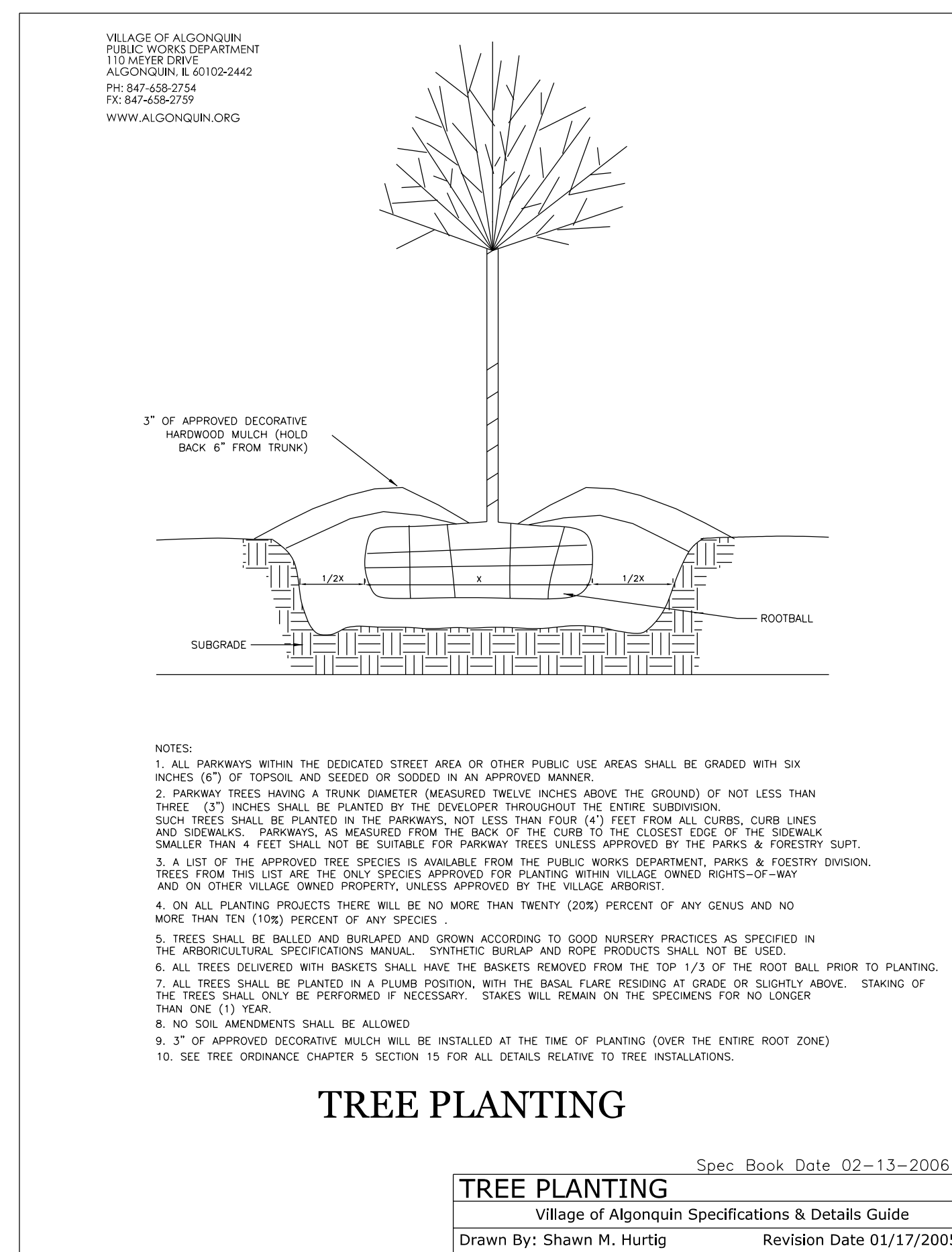
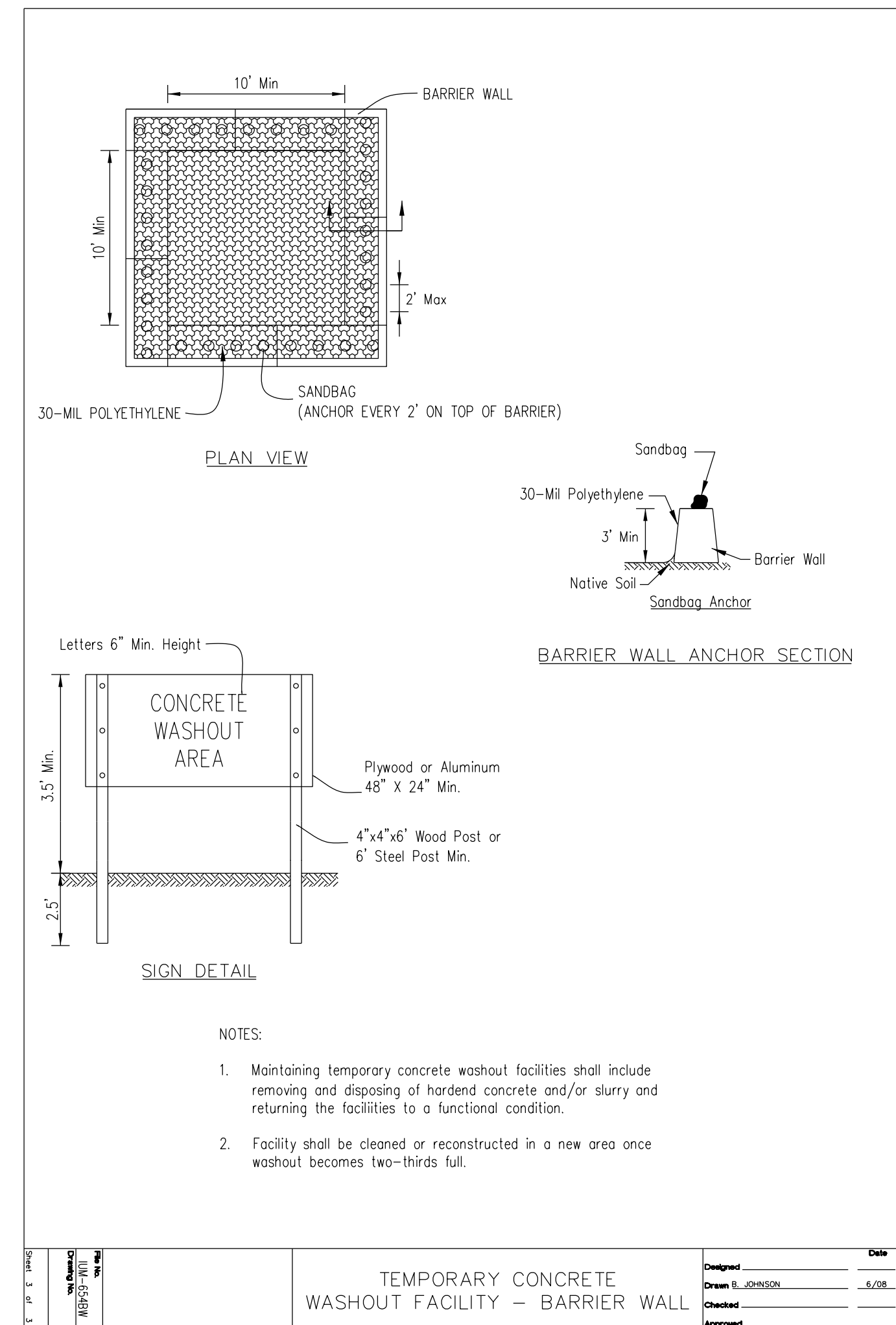
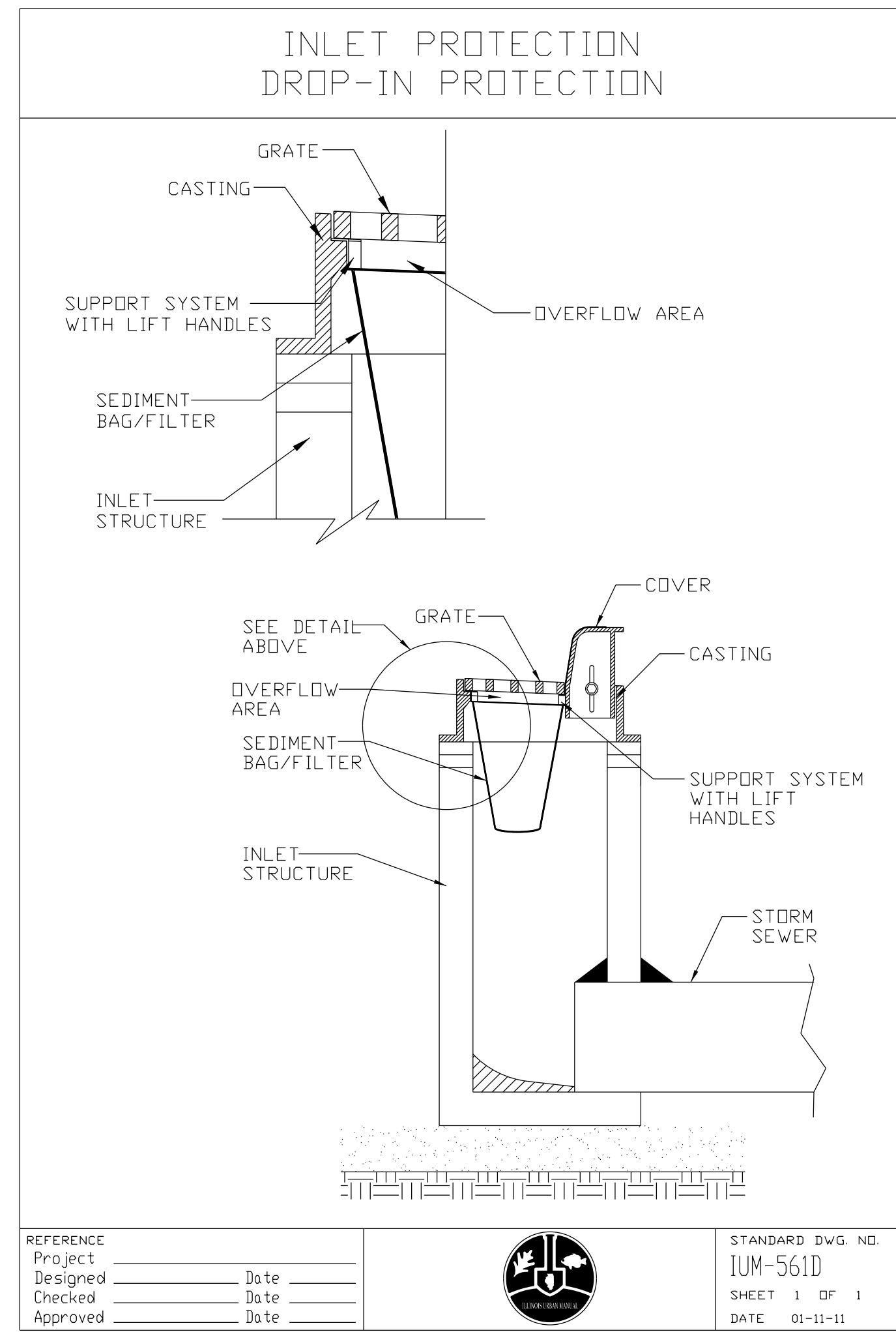
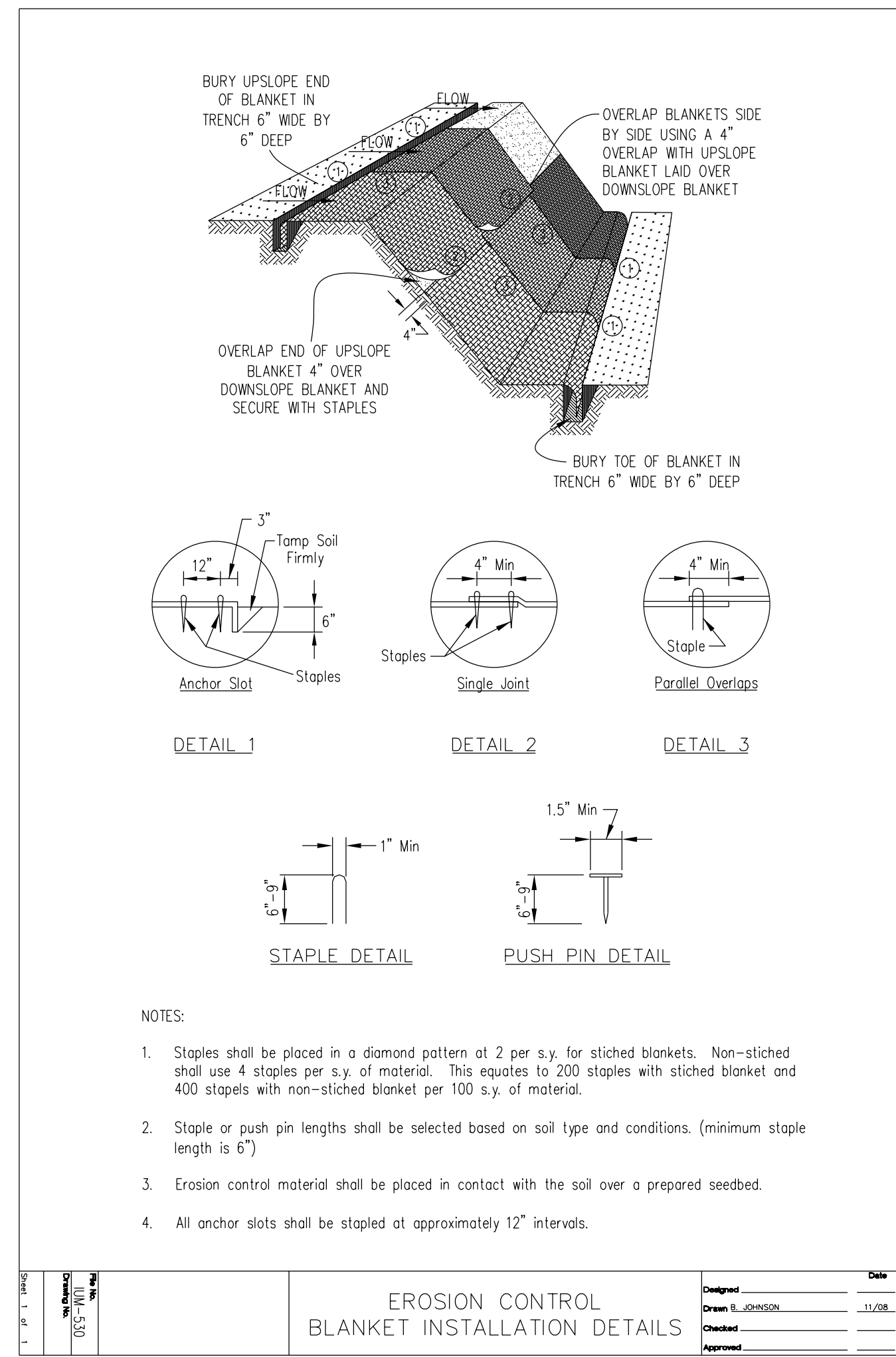
ISSUE FOR CONSTRUCTION

DATE: 8/23/19

REVISIONS

**ZROTTER ASSOCIATES, INC.**  
ENGINEERS AND SURVEYORS  
40501 Wood Road, Suite D  
St. Charles, IL 60175  
PH: 630-587-4700 • FAX: 630-587-0175

Downtown Streetscape Stage 2 Wet Utilities  
Details  
Algonquin, McHenry County, Illinois



**STANDARD SOIL EROSION AND SEDIMENT CONTROL NOTES**

- CONTROL MEASURES SHALL MEET THE MINIMUM STANDARDS AND SPECIFICATIONS OF THE ILLINOIS URBAN MANUAL (WWW.AISWCD.ORG/IUM) UNLESS STATED OTHERWISE.
- SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. AREAS OF THE DEVELOPMENT SITE THAT ARE NOT TO BE DISTURBED SHALL BE PROTECTED FROM CONSTRUCTION TRAFFIC OR OTHER DISTURBANCE UNTIL FINAL STABILIZATION IS ACHIEVED.
- SOIL STABILIZATION MEASURES SHALL CONSIDER THE TIME OF YEAR, DEVELOPMENT SITE CONDITIONS AND THE USE OF TEMPORARY OR PERMANENT MEASURES.
- STABILIZATION BY SEEDING SHALL INCLUDE TOPSOIL PLACEMENT AND FERTILIZATION, AS NECESSARY.
- NATIVE SEED MIXTURES SHALL INCLUDE RAPID-GROWING ANNUAL GRASSES OR SMALL GRAINS TO PROVIDE INITIAL, TEMPORARY SOIL STABILIZATION.
- OFFSITE PROPERTY SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION. VELOCITY DISSIPATION DEVICES SHALL BE PLACED AT CONCENTRATED DISCHARGE LOCATIONS AND ALONG THE LENGTH OF ANY OUTFALL CHANNEL, AS NECESSARY TO PREVENT EROSION.
- SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE DISTURBANCE OF TRIBUTARY AREAS.
- STABILIZATION OF DISTURBED AREAS SHALL BE INITIATED IMMEDIATELY WHENEVER ANY CLEARING, GRADING, EXCAVATING OR OTHER EARTH DISTURBING ACTIVITIES HAVE PERMANENTLY CEASED ON ANY PORTION OF THE DEVELOPMENT SITE, OR TEMPORARILY CEASED ON ANY PORTION OF THE DEVELOPMENT SITE AND WILL NOT RESUME FOR A PERIOD EXCEEDING 14 CALENDAR DAYS. STABILIZATION OF DISTURBED AREAS SHALL BE INITIATED WITHIN 1 WORKING DAY OF PERMANENT OR TEMPORARY CESSATION OF EARTH DISTURBING ACTIVITIES AND SHALL BE COMPLETED AS SOON AS POSSIBLE, BUT NOT LATER THAN 14 CALENDAR DAYS FROM THE INITIATION OF STABILIZATION WORK IN AN AREA, EXCEPTIONS TO THESE TIME FRAMES ARE SPECIFIED BELOW:
  - WHERE THE INITIATION OF STABILIZATION MEASURES IS PRECLUDED BY SNOW COVER, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE; AND
  - IN AREAS WHERE CONSTRUCTION ACTIVITY HAS TEMPORARILY CEASED AND WILL RESUME AFTER 14 DAYS, A TEMPORARY STABILIZATION METHOD MAY BE USED.
- DISTURBANCE OF STEEP SLOPES SHALL BE MINIMIZED, AREAS OR EMBANKMENTS HAVING SLOPES STEEPER THAN 3:1 SHALL BE STABILIZED WITH STAKED IN PLACE SOD, EROSION CONTROL BLANKET IN COMBINATION WITH SEEDING, OR AN EQUIVALENT CONTROL MEASURE.
- PERIMETER CONTROL MEASURES SHALL BE PROVIDED DOWNSLOPE AND PERPENDICULAR TO THE FLOW OF RUNOFF FROM DISTURBED AREAS, WHERE THE TRIBUTARY AREA IS GREATER THAN 5,000 SQUARE FEET, AND WHERE RUNOFF WILL FLOW IN A SHEET FLOW MANNER. PERIMETER EROSION CONTROL SHALL ALSO BE PROVIDED AT THE BASE OF SOIL STOCKPILES.
- THE STORMWATER MANAGEMENT SYSTEM SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION DOWNSLOPE FROM DISTURBED AREAS. INLET PROTECTION THAT REDUCES SEDIMENT LOADING, WHILE ALLOWING RUNOFF TO ENTER THE INLET SHALL BE REQUIRED FOR ALL STORM SEWERS, CHECK DAMS, OR AN EQUIVALENT CONTROL MEASURE. SHALL BE REQUIRED FOR ALL CHANNELS. FILTER FABRIC INLET PROTECTION AND STRAW BALE DITCH CHECKS ARE NOT ACCEPTABLE CONTROL MEASURES.
- IF DEWATERING SERVICES ARE USED, DISCHARGES SHALL BE ROUTED THROUGH AN EFFECTIVE SEDIMENT CONTROL MEASURE (E.G., SEDIMENT TRAP OR AN EQUIVALENT CONTROL MEASURE). THE ENFORCEMENT OFFICER SHALL BE NOTIFIED PRIOR TO THE COMMENCEMENT OF DEWATERING ACTIVITIES.
- ALL TEMPORARY SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL STABILIZATION OF THE DEVELOPMENT SITE IS ACHIEVED OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NECESSARY. TRAPPED SEDIMENT SHALL BE REMOVED AND DISTURBED AREAS SHALL BE PERMANENTLY STABILIZED.
- STOCKPILED SOIL AND MATERIALS SHALL BE REMOVED FROM FLOOD HAZARD AREAS AT THE END OF EACH WORK DAY. SOIL AND MATERIALS STOCKPILED IN IWMC OR BUFFER AREAS SHALL BE PLACED ON TIMBER MATS, OR AN EQUIVALENT CONTROL MEASURE.
- EFFECTIVE CONTROL MEASURES SHALL BE UTILIZED TO MINIMIZE THE DISCHARGE OF POLLUTANTS FROM THE DEVELOPMENT SITE. AT A MINIMUM, CONTROL MEASURES SHALL BE IMPLEMENTED IN ORDER TO:
  - MINIMIZE THE DISCHARGE OF POLLUTANTS FROM EQUIPMENT AND VEHICLE WASHING, WHEEL WASH WATER, AND OTHER WASH WATER; AND
  - MINIMIZE THE EXPOSURE OF BUILDING MATERIALS, BUILDING PRODUCTS, CONSTRUCTION WASTES, TRASH, LANDSCAPE MATERIALS, FERTILIZERS, PESTICIDES, HERBICIDES, DETERGENTS, VEHICLE FLUIDS, SANITARY WASTE, AND OTHER MATERIALS PRESENT ON THE DEVELOPMENT SITE TO PRECIPITATION AND TO STORMWATER.
- ADEQUATE RECEPTACLES SHALL BE PROVIDED FOR THE DEPOSITING OF ALL CONSTRUCTION MATERIAL DEBRIS GENERATED DURING THE DEVELOPMENT PROCESS. THE APPLICANT SHALL NOT CAUSE OR PERMIT THE DUMPING, DEPOSITING, DROPPING, THROWING, DISCARDING OR LEAVING OF CONSTRUCTION MATERIAL DEBRIS UPON OR INTO ANY DEVELOPMENT SITE, CHANNEL, OR IWMC. THE DEVELOPMENT SITE SHALL BE MAINTAINED FREE OF CONSTRUCTION MATERIAL DEBRIS.
- THE ENFORCEMENT OFFICER MAY REQUIRE ADDITIONAL OR ALTERNATE SOIL EROSION AND SEDIMENT CONTROL MEASURES, BASED ON DEVELOPMENT SITE SPECIFIC CONSIDERATIONS AND THE EFFECTIVENESS OF THE INSTALLED CONTROL MEASURES.

**STANDARD DRAIN TILE NOTES**

- DRAIN TILES DISTURBED DURING REGULATED DEVELOPMENT SHALL BE RECONNECTED BY THOSE RESPONSIBLE FOR THEIR DISTURBANCE, UNLESS THE DEVELOPMENT PLANS SPECIFY ABANDONMENT OF THE DRAIN TILES.
- ALL ABANDONED DRAIN TILES WITHIN DISTURBED AREAS SHALL BE REMOVED IN THEIR ENTIRETY.
- DRAIN TILES WITHIN THE DISTURBED AREA OF A DEVELOPMENT SITE SHALL BE REPLACED, BYPASSED AROUND THE DEVELOPMENT SITE OR INTERCEPTED AND CONNECTED TO THE STORMWATER MANAGEMENT SYSTEM FOR THE DEVELOPMENT SITE. THE SIZE OF THE REPLACED OR BYPASSED DRAIN TILE SHALL BE EQUIVALENT TO THE EXISTING DRAIN TILE.

**Seeding & Stabilization Schedule**

STABILIZATION TYPE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
TEMPORARY SEEDING												
MULCHING												
PERMANENT SEEDING												
DORMANT SEEDING												

EACH PRACTICE SHALL BE APPLIED AT A MINIMUM RATE OF 90 LB/ACRE  
 SEEDING AND MULCHING APPLICATION RATES AND APPLICATION TIMES OF YEAR, AS WELL AS SEEDING SPECIES SHALL BE IN ACCORDANCE WITH THE ILLINOIS URBAN MANUAL, CURRENT EDITION

**TABLE 1  
ROCK RIPRAP SIZES AND THICKNESS (INCHES)**

I.D.O.T. GRAD. NO.	D50	DMAX	MIN. BLANKET THICKNESS
RR-3 1/	5	10	15
RR-4	9	14	20
RR-5	12	19	28
RR-6	15	22	32
RR-7	18	27	32

1/ CONCRETE BLOCK MAY BE USED TO REPLACE RR-3.

**TABLE 2  
MINIMUM I.D.O.T. ROCK SIZES AND APRON LENGTH (LA IN FEET) FOR MAXIMUM AND MINIMUM TAILWATER CONDITIONS.**

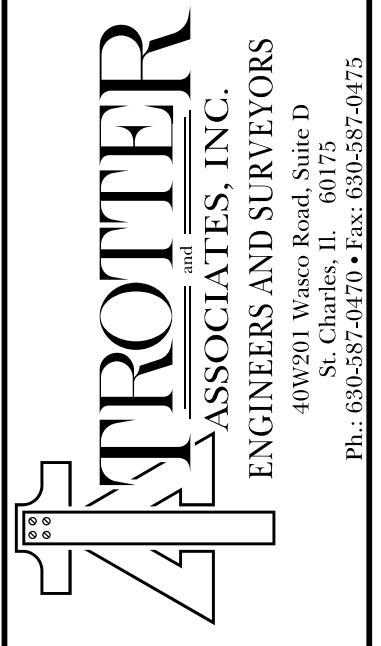
CULVERT SIZE (INCHES)	MIN. TAILWATER		MAX. TAILWATER	
	5 FPS 1/	10 FPS 1/	5 FPS 1/	10 FPS 1/
12	RR-3	LA	RR-3	LA
18	RR-3	10	RR-3	12
24	RR-3	16	RR-4	14
30	RR-3	16	RR-4	17
36	RR-4	20	RR-4	20
48	RR-4	24	RR-5	24
60	RR-4	24	RR-6	28
72	RR-5	32	RR-6	36
96	RR-6	40	RR-6	44
	RR-7	50	RR-7	54

1/ MAXIMUM CONDUIT VELOCITY FPS.

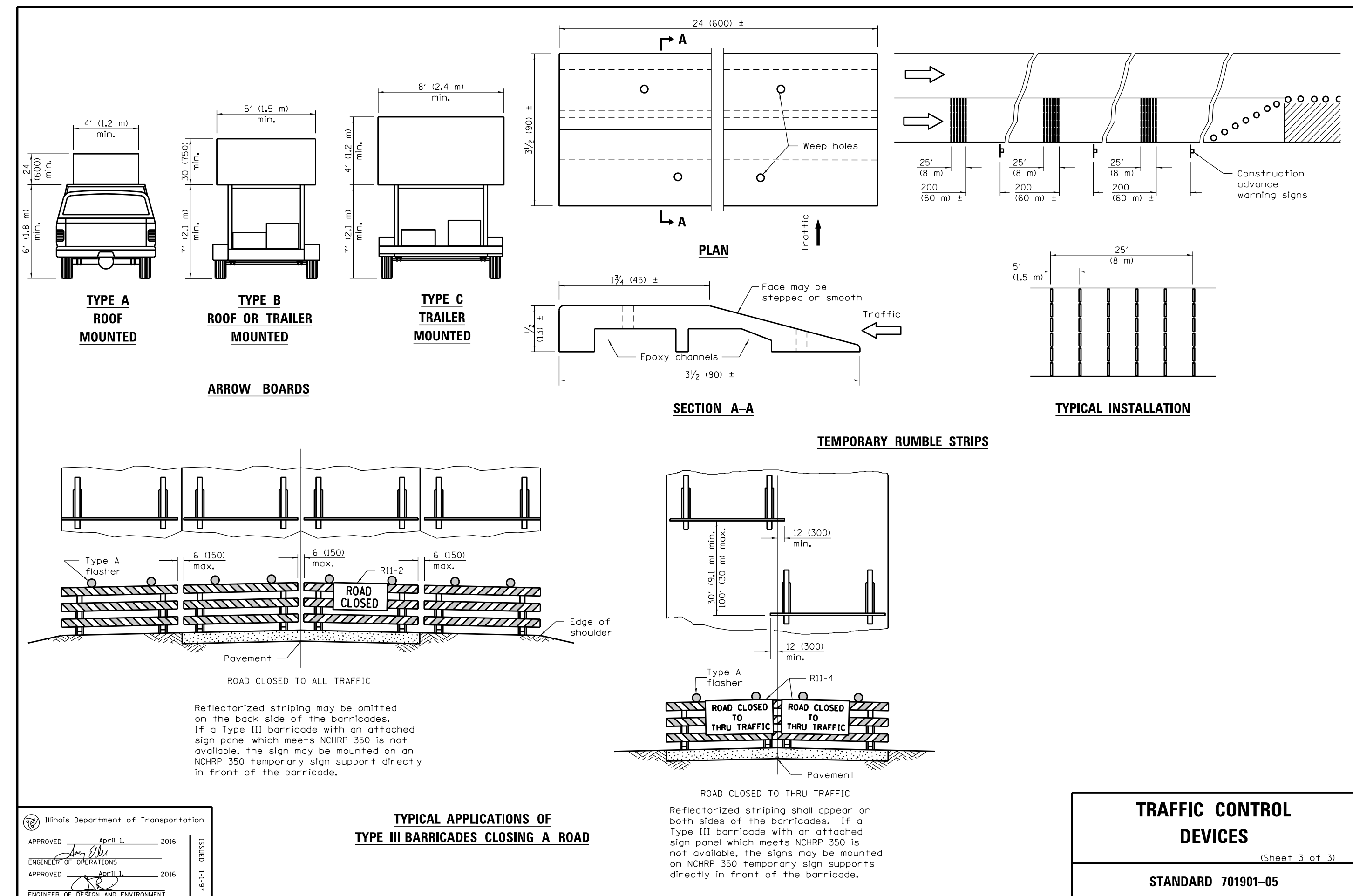
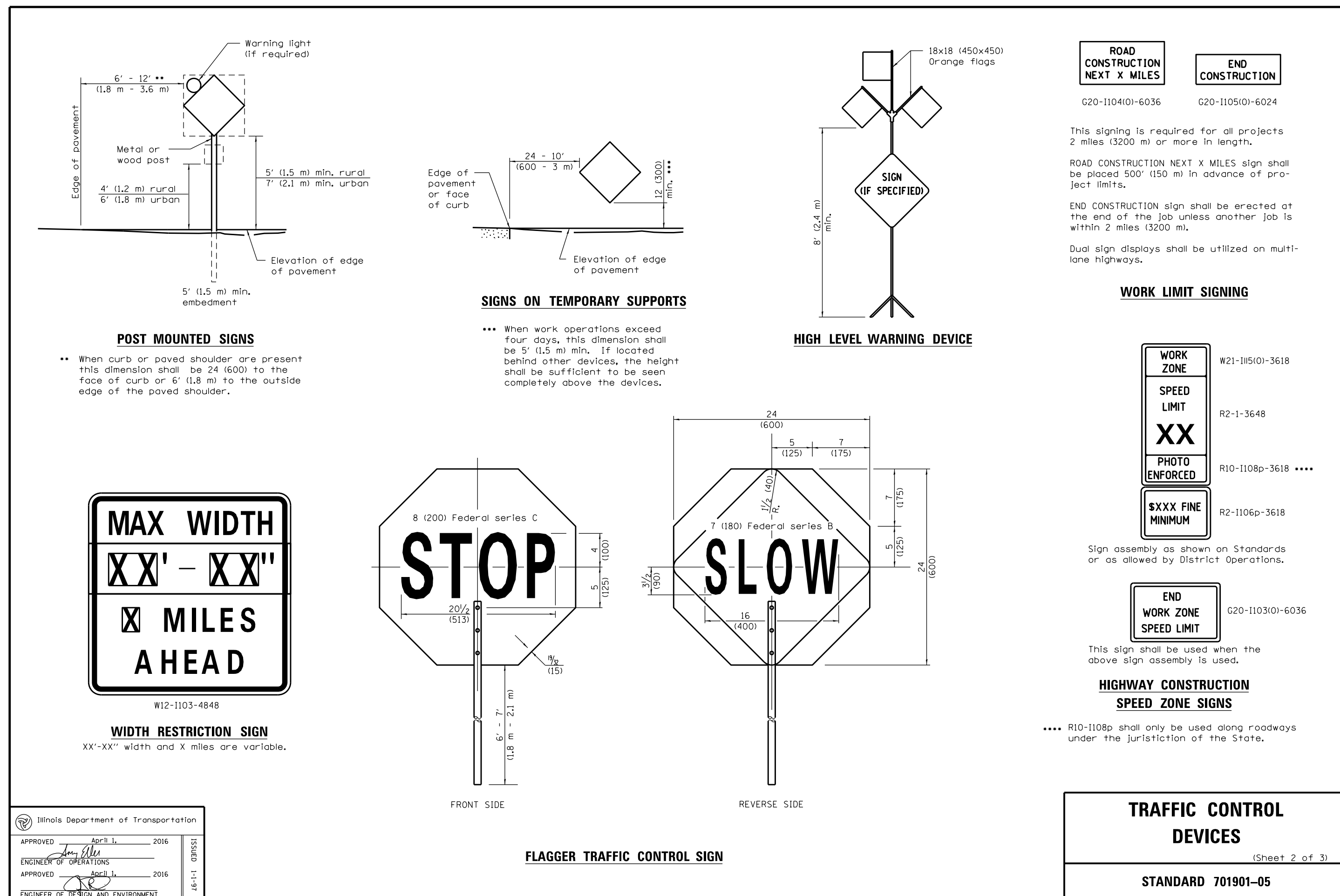
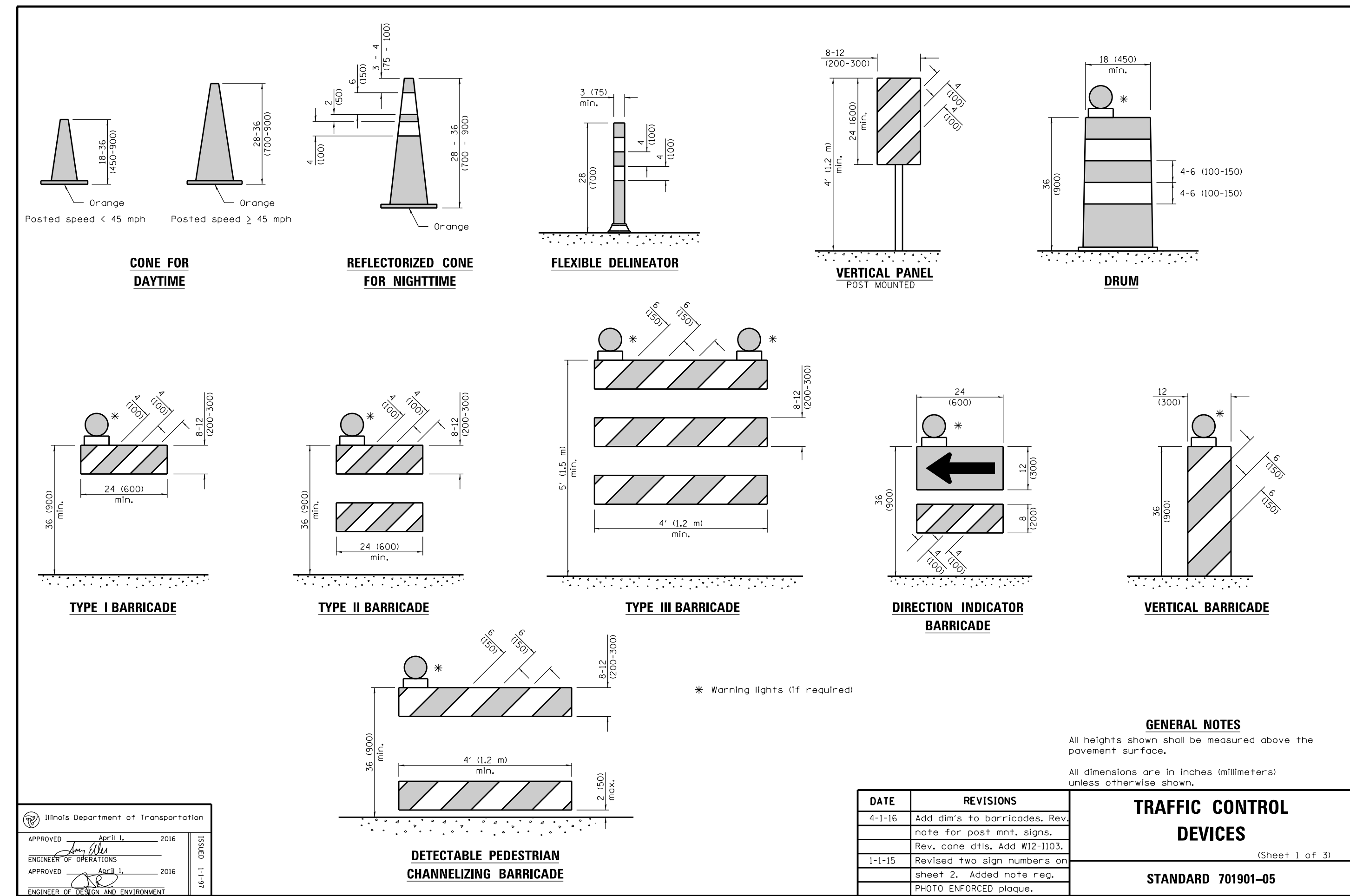
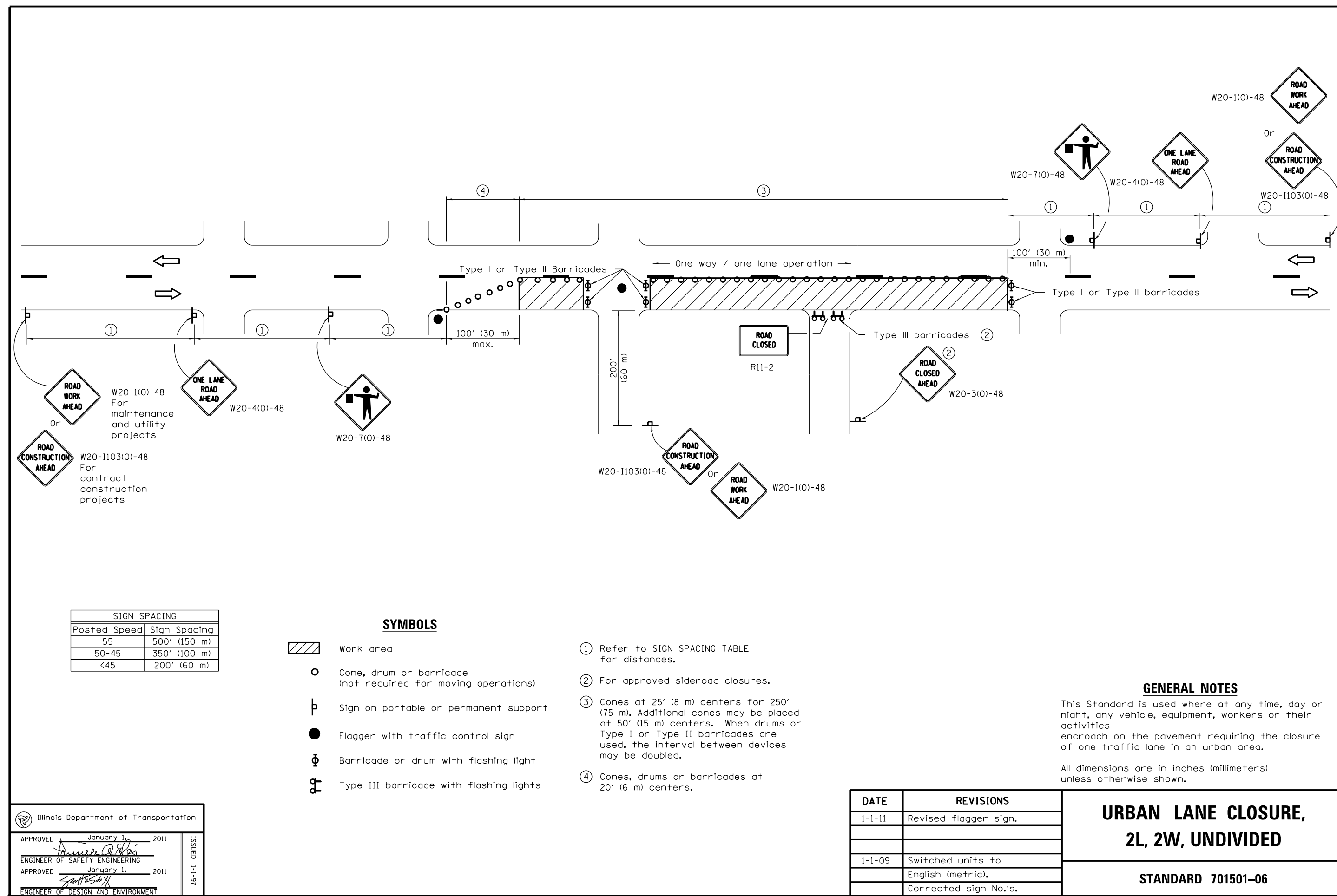
Downtown Streetscape Stage 2 Wet Utilities  
 Details  
 Algonquin, McHenry County, Illinois

Project No.: ALG028C-1  
 Base File:  
 Sheet File: C.18.dgn  
 Issue Date: 8/23/2019  
 Scale: N.T.S.  
 Sheet Number  
**C.18**

DATE	REVISIONS	ISSUE	PROJECT STAFF
			PROJECT MANAGER: SCOTT THURMAN, P.E. ENGINEER: TERRY DITTMAR, P.E. ENGINEER: JAMES W. JENSEN, P.E. TECHNICIAN: MIKE WATSON TECHNICIAN:



ISSUED FOR CONSTRUCTION 8/23/19



TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (64 KM/H) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER.	2. ONE ROAD CONSTRUCTION ARMS (36 x 36 INCHES) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 M) IN ADVANCE OF THE CROSS SECTION OF THE CLOSED PORTION.	3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNALING AND THE WORK ZONE, A SINGLE HEADED ARROW (M-4) BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M-4).	4. FOR A LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAY.	5. ONE ROAD CONSTRUCTION ARMS (48 x 48 INCHES) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 500' (150 M) IN ADVANCE OF THE CROSS SECTION OF THE CLOSED PORTION.	6. ONE ROAD CONSTRUCTION ARMS (36 x 36 INCHES) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 M) IN ADVANCE OF THE CROSS SECTION OF THE CLOSED PORTION.	7. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNALING AND THE WORK ZONE, A SINGLE HEADED ARROW (M-4) BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M-4).	8. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY.	9. USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (310), 310A, 310B AND THE APPROPRIATE SIGNAGE. THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.	10. ADVANCE WARNING SIGNS ARE TO BE MOUNTED ON DRIVEWAY UNLESS OTHERWISE NOTED.	11. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.
----------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------

DESIGNED - LMA	REVISED - A. GRENLE 10-18-99
DRAWN - A. HOUSEN 03-06-02	REVISED - A. HOUSEN 03-06-02
CHECKED - A. HOUSEN 10-05-98	REVISED - T. BANHAMMER 01-26-02
DATE - 08-89	REVISIONS -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS AND DRIVEWAYS

SCALE: NONE SHEET NO. 1 OF 1 SHEETS 1 STA. TO STA. 00000+00 TO 00000+00

FILE NAME: C:\WORK\2010\PROJECTS\11151\11151.DGN

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE TYPICAL PAVEMENT MARKINGS

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTELINE ON 2 LANE PAVEMENT	4" (100)	SHAP-C&C	YELLOW	30' (9.14) M LINE WITH 30' (9.14) M SPACE
CENTELINE ON MULTI-LANE DIVIDED PAVEMENT	4" (100)	S&S-C	YELLOW	30' (9.14) M LINE WITH 30' (9.14) M SPACE
TRUCKING LANE LINE	4" (100)	S&S-C	YELLOW	50' (15.24) M FROM SHAP-C&C CENTELINE
LANE LINES	4" (100)	S&S-C	WHITE	10' (3.05) M LINE WITH 30' (9.14) M SPACE
TURN LANE MARKINGS	6" (152)	F&F	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
2 WAY LEFT TURN MARKING	8" (203)	S&S-C	YELLOW	30' (9.14) M LINE WITH 30' (9.14) M SPACE
ROADSIDE LINE (REVERSIBLE)	2" (50.8)	S&S-C	WHITE	SEE TYPICAL ROADSIDE LINE MARKING DETAIL
STOP LINES	14" (354)	S&S-C	WHITE	14" (35.4) M LINE WITH 0' (0) M SPACE
PAINTED MEDIANS	2" (50.8)	S&S-C	YELLOW	1" (25.4) M FOR THE CENTER LINE SEE TYPICAL PAINTED MEDIAN MARKING DETAIL
ROAD MARKING AND CHANNELING LINES	8" (203)	S&S-C	WHITE	SEE TYPICAL ROAD MARKING DETAIL
RAILROAD CROSSING	2" (50.8)	S&S-C	WHITE	SEE STATE STANDARD TROUSS
SHOULDER BARRIERS (REQUIRED FOR LEFT AND RIGHT TURN LANE)	12" (305)	S&S-C	WHITE	SEE TYPICAL SHOULDER BARRIER DETAIL
TURN ARROW	SEE DETAIL	S&S-C	WHITE	SEE DETAIL
2 LANE COMBINATION LEFT AND U-TURN	SEE DETAIL	S&S-C	WHITE	SEE DETAIL

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS AND DRIVEWAYS

SCALE: NONE SHEET NO. 1 OF 1 SHEETS 1 STA. TO STA. 00000+00 TO 00000+00

FILE NAME: C:\WORK\2010\PROJECTS\11151\11151.DGN

FRAME AND GRATE TYPE 11V STANDARD 604056-04

SECTION A-A

SECTION B-B

SECTION E-E

CAST FRAME

FRONT VANE DETAIL

SIDE RIB DETAIL

MIDDLE RIB DETAIL

ALTERNATE CURB BOX

All dimensions are in inches (millimeters) unless otherwise shown.

DESIGNED - M. DE TONG	REVISED - R. SMITH 10-25-94
DRAWN - A. HOUSEN 03-06-02	REVISED - A. HOUSEN 03-06-02
CHECKED - M. GOMEZ 04-08-01	REVISED - M. GOMEZ 04-08-01
DATE - 08-19-90	REVISIONS - R. BORR 01-01-07

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE: NONE SHEET NO. 1 OF 1 SHEETS 1 STA. TO STA. 00000+00 TO 00000+00

TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING

OPTION 1

OPTION 2

TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING

NOTE: BUTT JOINT AND HMA TAPER SEE DETAIL BELOW

NOTE: BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.

NOTE: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSE.

NOTE: INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 M) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL - BUTT JOINT.

NOTE: SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT".

NOTE: SEE TYPICAL SECTIONS FOR MILLING THICKNESS.

NOTE: 20'-0" (6.1 M) PER 1 (25) RESURFACING (NOTE "A")

NOTE: 10'-0" (3.0 M) PER 1 (25) RESURFACING (NOTE "B")

BASIS OF PAYMENT

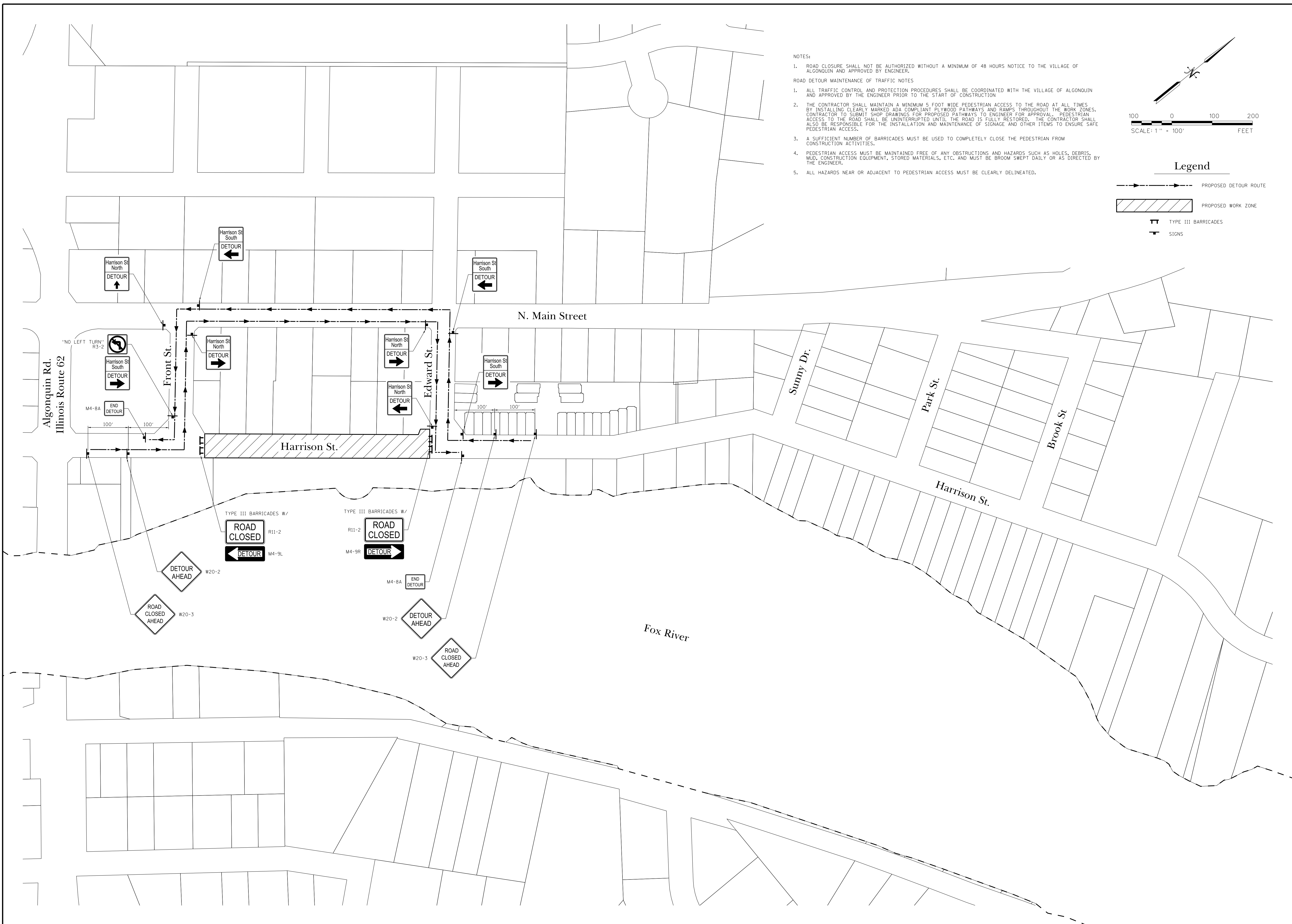
THE BUTT JOINT SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT (SQUARE METER) FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT".

DESIGNED - M. DE TONG	REVISED - R. SMITH 10-25-94
DRAWN - A. HOUSEN 03-06-02	REVISED - A. HOUSEN 03-06-02
CHECKED - M. GOMEZ 04-08-01	REVISED - M. GOMEZ 04-08-01
DATE - 08-19-90	REVISIONS - R. BORR 01-01-07

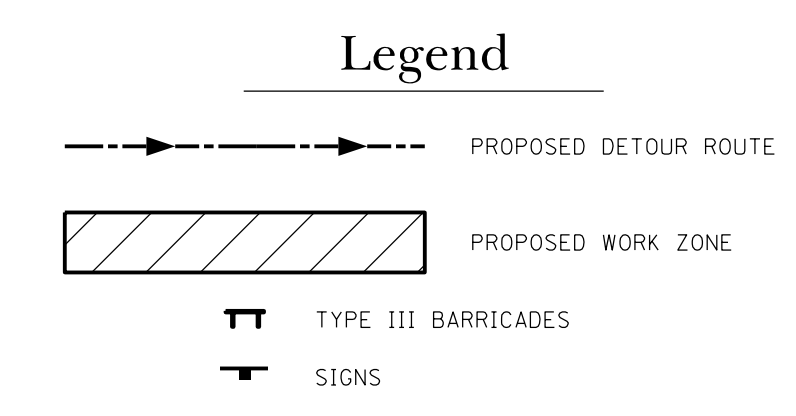
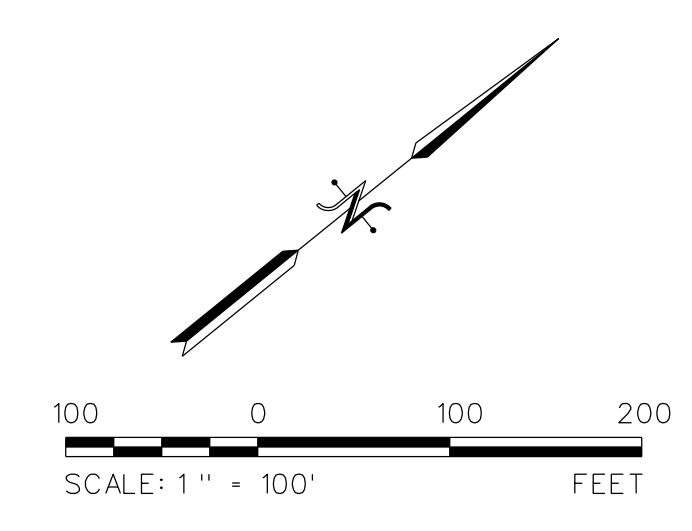
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE: NONE SHEET NO. 1 OF 1 SHEETS 1 STA. TO STA. 00000+00 TO 00000+00

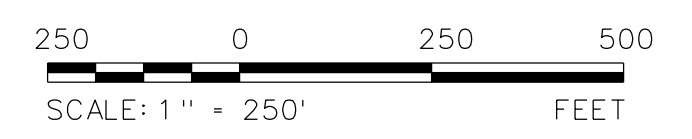
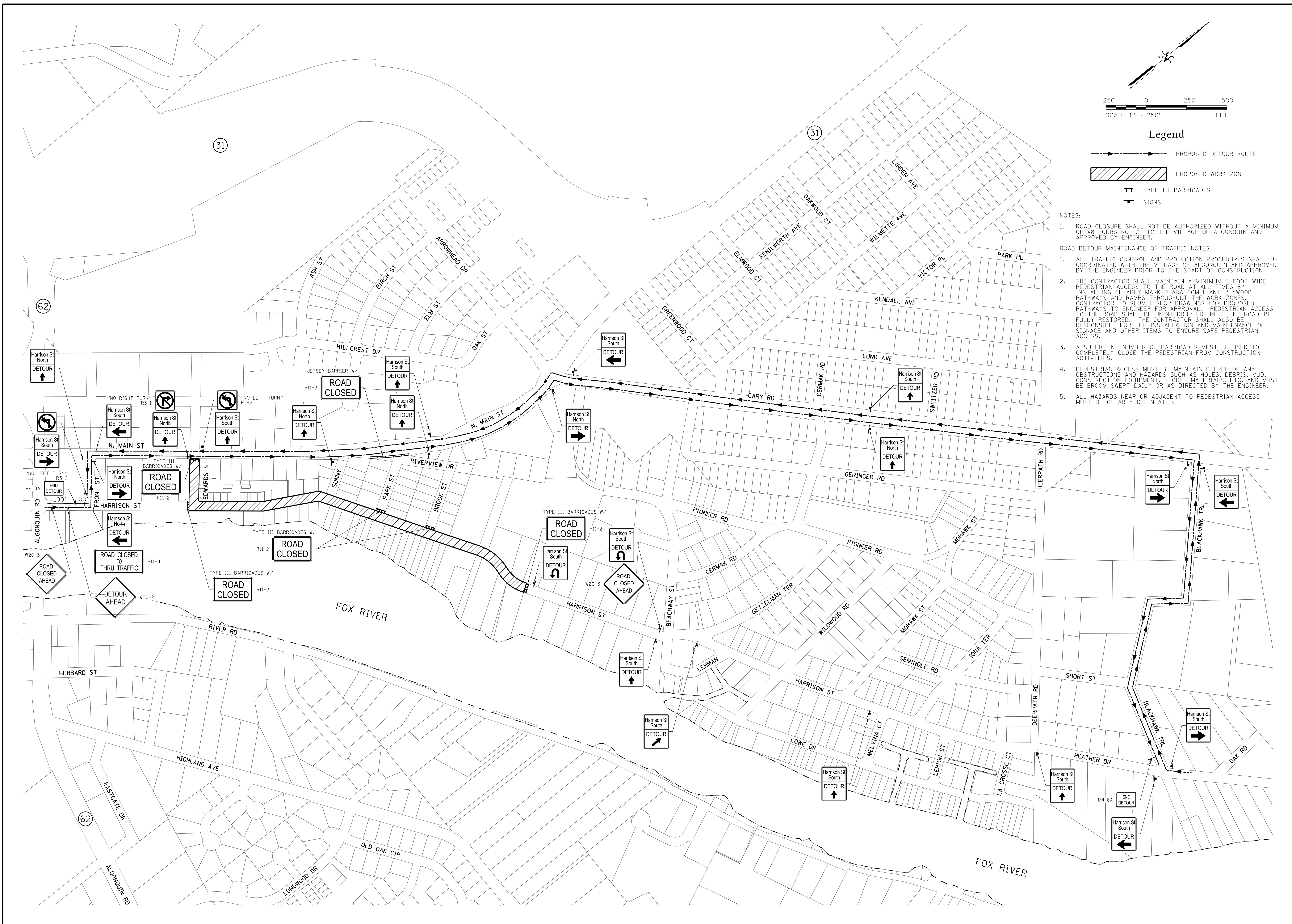




- NOTES:
1. ROAD CLOSURE SHALL NOT BE AUTHORIZED WITHOUT A MINIMUM OF 48 HOURS NOTICE TO THE VILLAGE OF ALGONQUIN AND APPROVED BY ENGINEER.
- ROAD DETOUR MAINTENANCE OF TRAFFIC NOTES
1. ALL TRAFFIC CONTROL AND PROTECTION PROCEDURES SHALL BE COORDINATED WITH THE VILLAGE OF ALGONQUIN AND APPROVED BY THE ENGINEER PRIOR TO THE START OF CONSTRUCTION
  2. THE CONTRACTOR SHALL MAINTAIN A MINIMUM 5 FOOT WIDE PEDESTRIAN ACCESS TO THE ROAD AT ALL TIMES BY INSTALLING CLEARLY MARKED ADA-COMPLIANT PLYWOOD PATHWAYS AND RAMPS THROUGHOUT THE WORK ZONES. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR PROPOSED PATHWAYS TO ENGINEER FOR APPROVAL. PEDESTRIAN ACCESS TO THE ROAD SHALL BE UNINTERRUPTED UNTIL THE ROAD IS FULLY RESTORED. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF SIGNAGE AND OTHER ITEMS TO ENSURE SAFE PEDESTRIAN ACCESS.
  3. A SUFFICIENT NUMBER OF BARRICADES MUST BE USED TO COMPLETELY CLOSE THE PEDESTRIAN FROM CONSTRUCTION ACTIVITIES.
  4. PEDESTRIAN ACCESS MUST BE MAINTAINED FREE OF ANY OBSTRUCTIONS AND HAZARDS SUCH AS HOLES, DEBRIS, MUD, CONSTRUCTION EQUIPMENT, STORED MATERIALS, ETC. AND MUST BE BROOM SWEEP DAILY OR AS DIRECTED BY THE ENGINEER.
  5. ALL HAZARDS NEAR OR ADJACENT TO PEDESTRIAN ACCESS MUST BE CLEARLY DELINEATED.



DATE	
REVISIONS	
ISSUE	0.
PROJECT STAFF	PROJECT MANAGER: SCOTT BROTHERS P.E. ENGINEER: TERRY BROTHERS P.E. ENGINEER: JAMES BROTHERS P.E. TECHNICIAN: JIM WATSON TECHNICIAN: JIM WATSON
 <b>TROTTER ASSOCIATES, INC.</b> ENGINEERS AND SURVEYORS 405001 Wisco Road, Suite D St. Charles, IL 60175 Ph: 630-587-4700 • Fax: 630-587-4715	
<b>Downtown Streetscape Stage 2 Wet Utilities</b> <b>Detour Plan - Stage 1</b> <b>Algonquin, McHenry County, Illinois</b>	
Project No.:	ALG028C-1
Base File:	
Sheet File:	C.21.dgn
Issue Date:	8/23/2019
Scale:	1" = 100'
Sheet Number	C.21



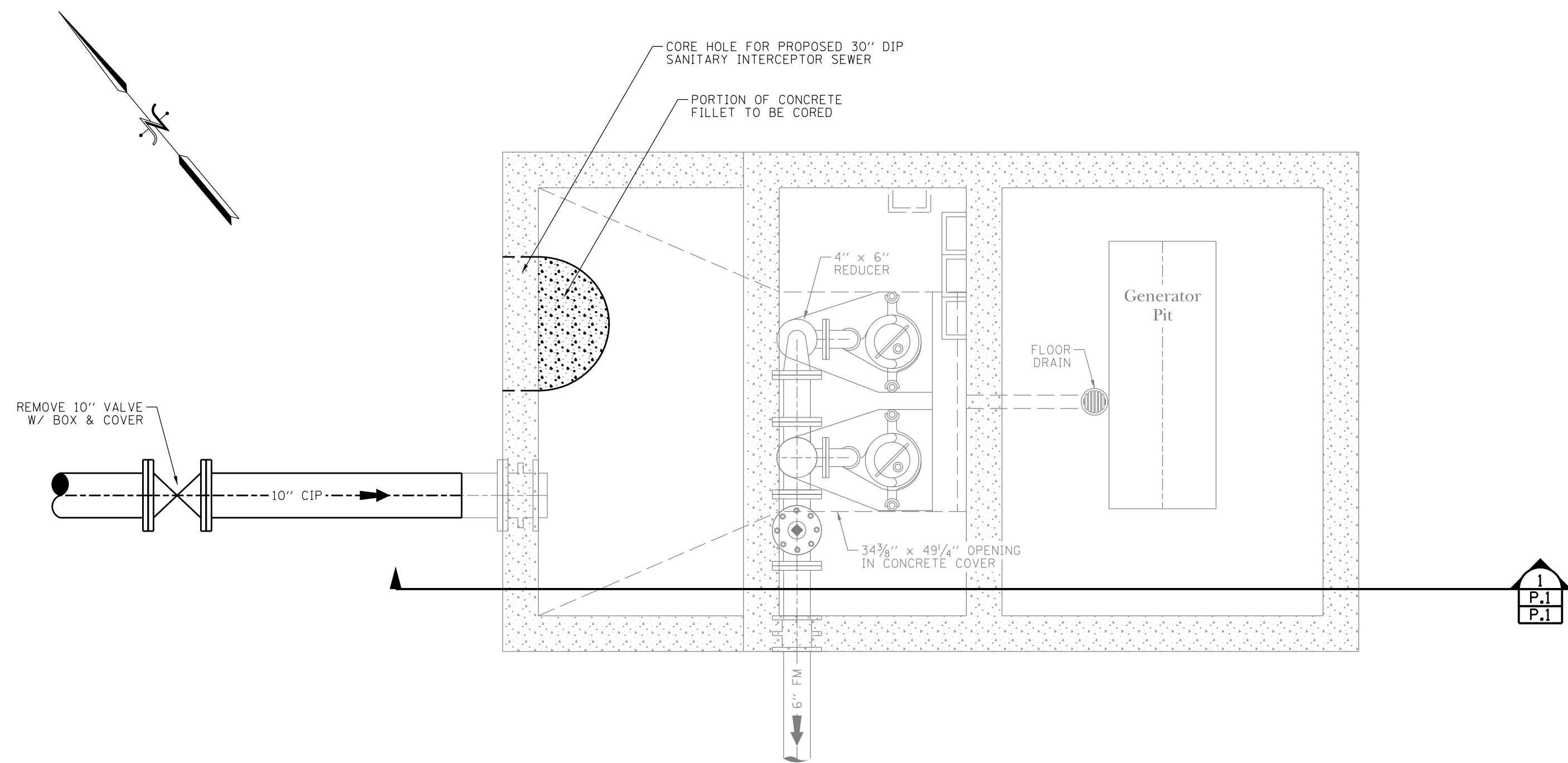
**Legend**

- PROPOSED DETOUR ROUTE
- ▨ PROPOSED WORK ZONE
- ⊥ TYPE III BARRICADES
- ⊥ SIGNS

**NOTES:**

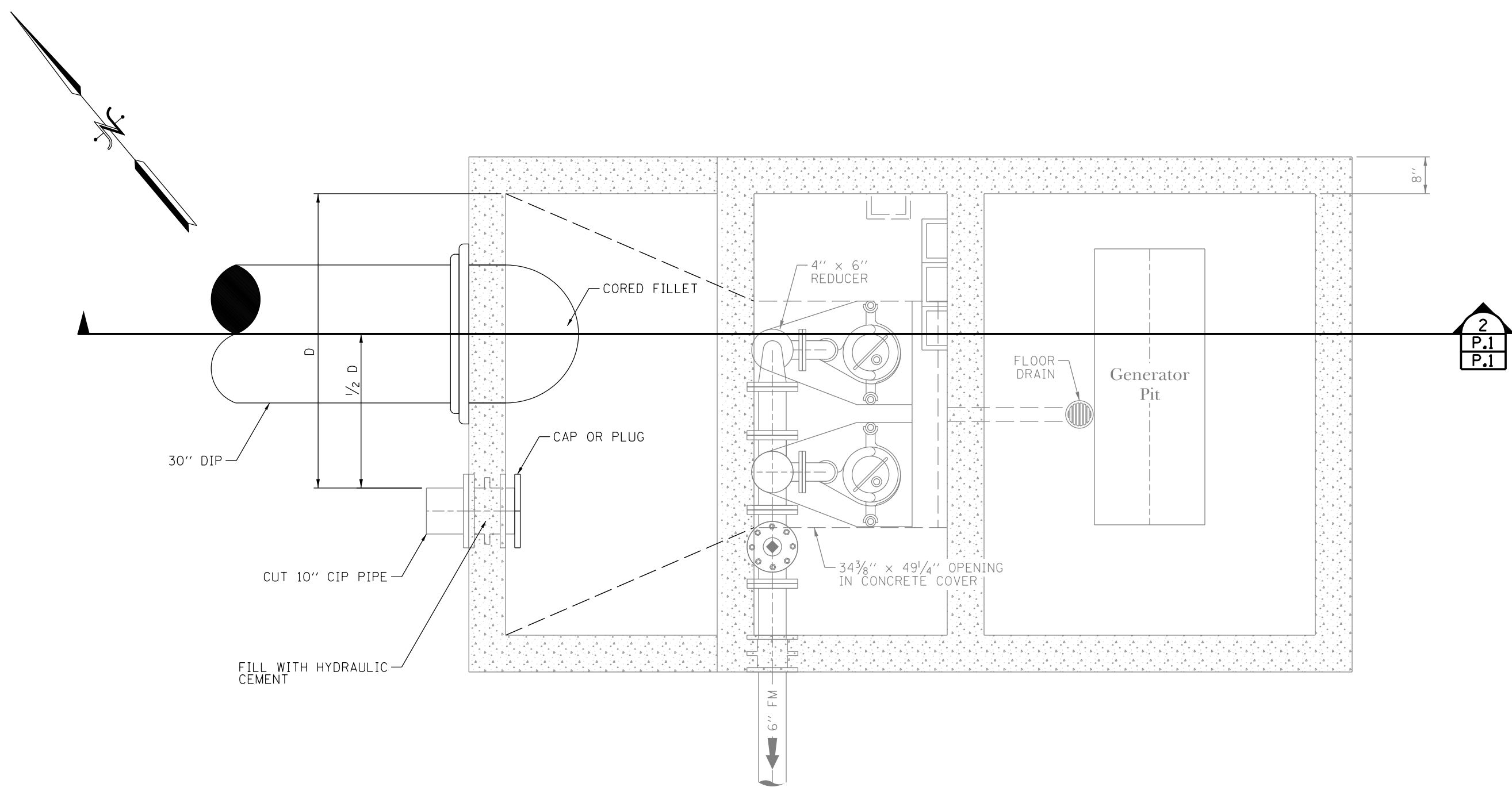
1. ROAD CLOSURE SHALL NOT BE AUTHORIZED WITHOUT A MINIMUM OF 48 HOURS NOTICE TO THE VILLAGE OF ALGONQUIN AND APPROVED BY ENGINEER.
2. THE CONTRACTOR SHALL MAINTAIN A MINIMUM 5 FOOT WIDE PEDESTRIAN ACCESS TO THE ROAD AT ALL TIMES BY INSTALLING CLEARLY MARKED ADA COMPLIANT PLYWOOD PATHWAYS AND RAMPS THROUGHOUT THE WORK ZONES. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR PROPOSED PATHWAYS TO ENGINEER FOR APPROVAL. PEDESTRIAN ACCESS TO THE ROAD SHALL BE UNINTERRUPTED UNTIL THE ROAD IS FULLY RESTORED. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF SIGNAGE AND OTHER ITEMS TO ENSURE SAFE PEDESTRIAN ACCESS.
3. A SUFFICIENT NUMBER OF BARRICADES MUST BE USED TO COMPLETELY CLOSE THE PEDESTRIAN FROM CONSTRUCTION ACTIVITIES.
4. PEDESTRIAN ACCESS MUST BE MAINTAINED FREE OF ANY OBSTRUCTIONS AND HAZARDS SUCH AS HOLES, DEBRIS, MUD, CONSTRUCTION EQUIPMENT, STORED MATERIALS, ETC., AND MUST BE BROOM SWEEPED DAILY OR AS DIRECTED BY THE ENGINEER.
5. ALL HAZARDS NEAR OR ADJACENT TO PEDESTRIAN ACCESS MUST BE CLEARLY DELINEATED.

<p><b>PROJECT STAFF</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>PROJECT MANAGER</td> <td>SCOTT BROTHERS P.E.</td> </tr> <tr> <td>ENGINEER</td> <td>TERY BETHAM P.E.</td> </tr> <tr> <td>ENGINEER</td> <td>WILLIAMSON</td> </tr> <tr> <td>TECHNICIAN</td> <td>WILLIAMSON</td> </tr> <tr> <td>TECHNICIAN</td> <td>WILLIAMSON</td> </tr> </table>	PROJECT MANAGER	SCOTT BROTHERS P.E.	ENGINEER	TERY BETHAM P.E.	ENGINEER	WILLIAMSON	TECHNICIAN	WILLIAMSON	TECHNICIAN	WILLIAMSON	<p><b>REVISIONS</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> <tr> <td>1.</td> <td>9/19/2019</td> <td>PER CDP #001</td> </tr> <tr> <td>0.</td> <td>8/23/19</td> <td>ISSUED FOR CONSTRUCTION</td> </tr> </table>	NO.	DATE	DESCRIPTION	1.	9/19/2019	PER CDP #001	0.	8/23/19	ISSUED FOR CONSTRUCTION
PROJECT MANAGER	SCOTT BROTHERS P.E.																			
ENGINEER	TERY BETHAM P.E.																			
ENGINEER	WILLIAMSON																			
TECHNICIAN	WILLIAMSON																			
TECHNICIAN	WILLIAMSON																			
NO.	DATE	DESCRIPTION																		
1.	9/19/2019	PER CDP #001																		
0.	8/23/19	ISSUED FOR CONSTRUCTION																		
<p><b>TROTTER ASSOCIATES, INC.</b> ENGINEERS AND SURVEYORS 40501 Wisco Road, Suite D St. Charles, IL 60175 Ph: 636.587.4700 • Fax: 636.587.4715</p>																				
<p><b>Downtown Streetscape Stage 2 Wet Utilities</b> <b>Detour Plan - Stage 2</b> <b>Algonquin, McHenry County, Illinois</b></p>																				
<p>Project No.: ALG028C-1 Base File: C:\22 CMR001.dgn Sheet File: C:\22 CMR001.dgn Issue Date: 9/19/2019 Scale: 1" = 250' Sheet Number</p>																				
<p><b>C.22</b></p>																				



Lift Station "C" Existing Plan

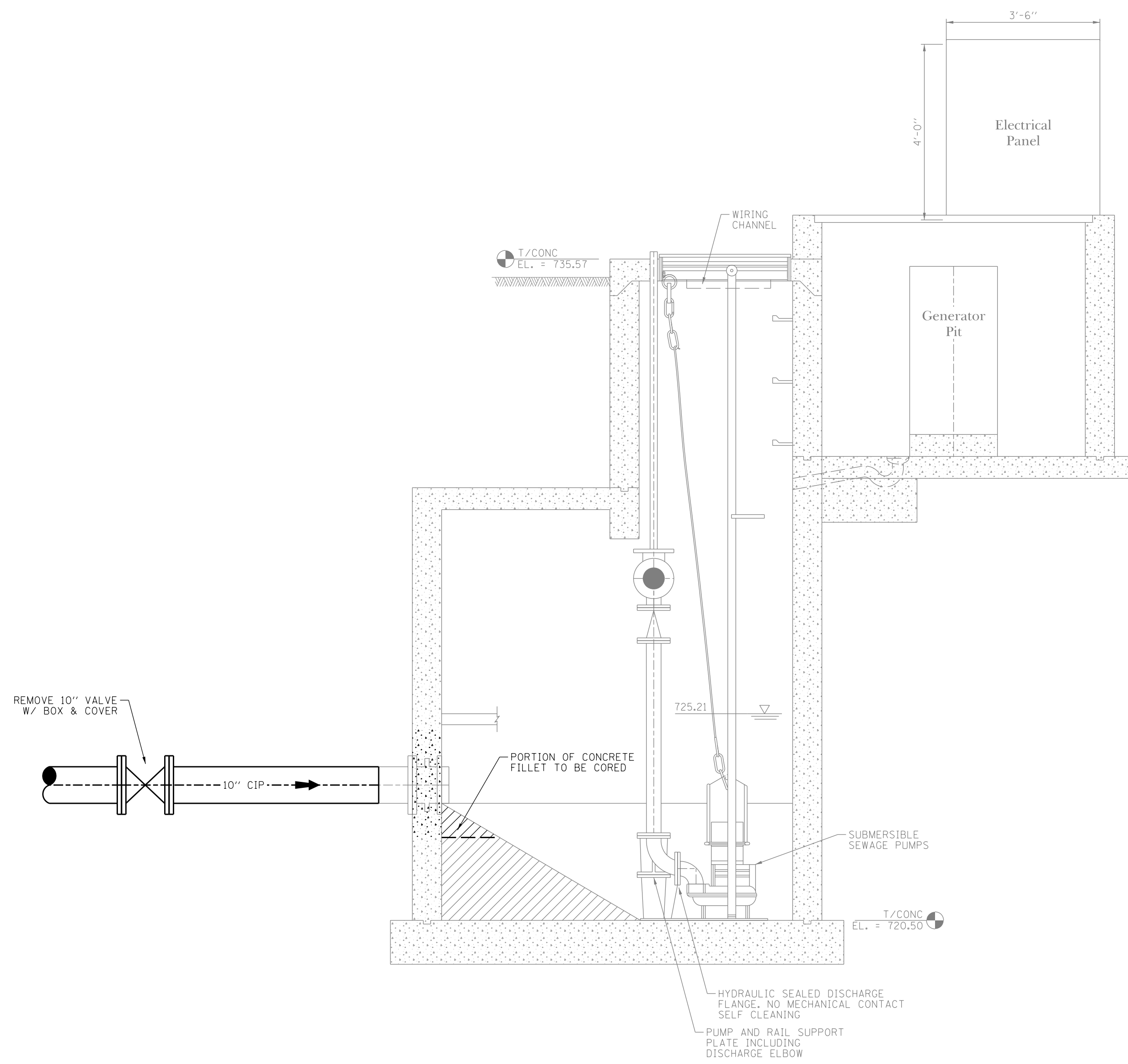
1/2" = 1'-0"



Lift Station "C" Proposed Plan

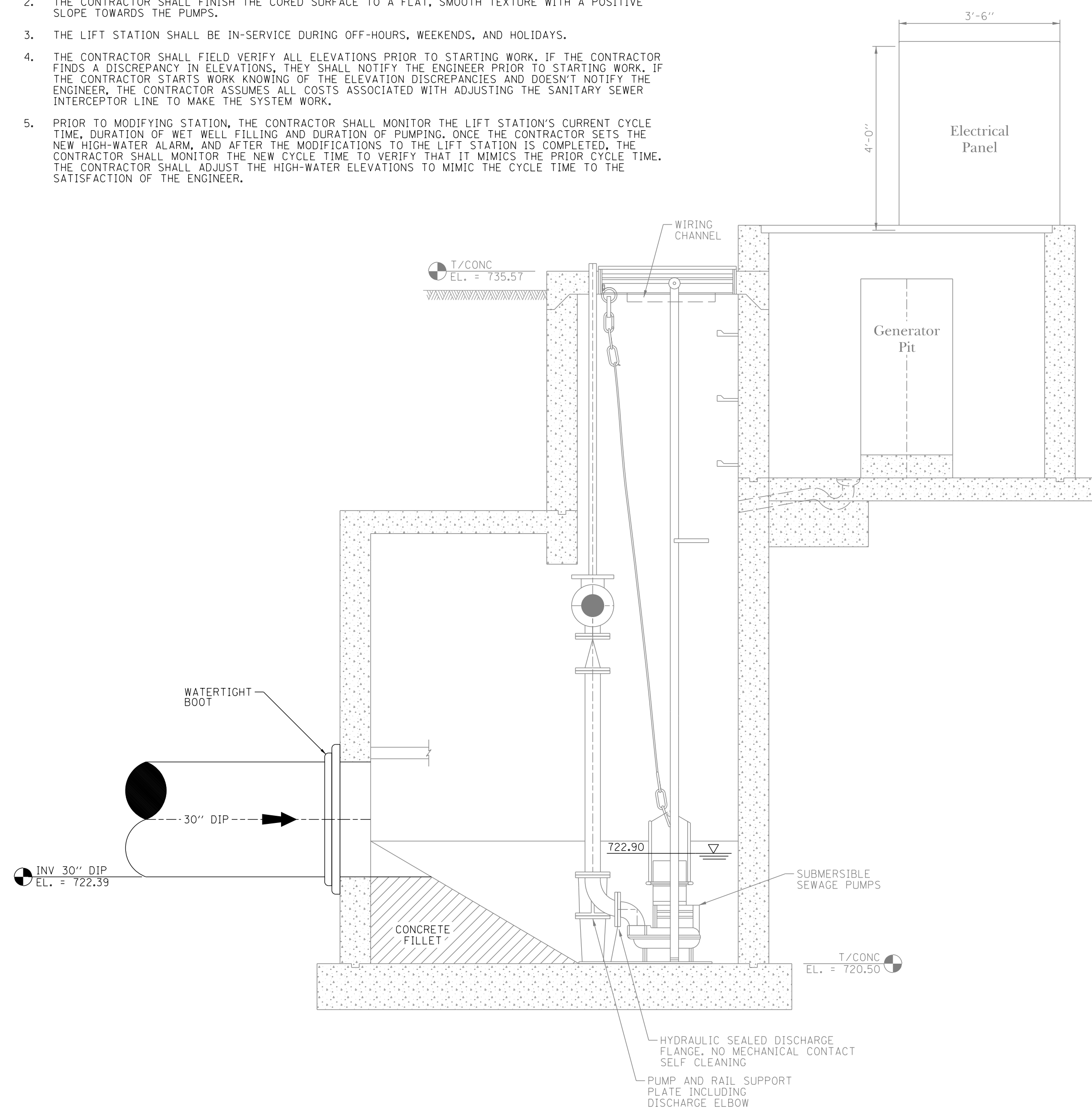
1/2" = 1'-0"

- NOTES:
- "D" MEASURED BY THE CONTRACTOR IN THE FIELD.
  - THE CONTRACTOR SHALL FINISH THE CORED SURFACE TO A FLAT, SMOOTH TEXTURE WITH A POSITIVE SLOPE TOWARDS THE PUMPS.
  - THE LIFT STATION SHALL BE IN-SERVICE DURING OFF-HOURS, WEEKENDS, AND HOLIDAYS.
  - THE CONTRACTOR SHALL FIELD VERIFY ALL ELEVATIONS PRIOR TO STARTING WORK. IF THE CONTRACTOR FINDS A DISCREPANCY IN ELEVATIONS, THEY SHALL NOTIFY THE ENGINEER PRIOR TO STARTING WORK. IF THE CONTRACTOR STARTS WORK KNOWING OF THE ELEVATION DISCREPANCIES AND DOESN'T NOTIFY THE ENGINEER, THE CONTRACTOR ASSUMES ALL COSTS ASSOCIATED WITH ADJUSTING THE SANITARY SEWER INTERCEPTOR LINE TO MAKE THE SYSTEM WORK.
  - PRIOR TO MODIFYING STATION, THE CONTRACTOR SHALL MONITOR THE LIFT STATION'S CURRENT CYCLE TIME, DURATION OF WET WELL FILLING AND DURATION OF PUMPING, ONCE THE CONTRACTOR SETS THE NEW HIGH-WATER ALARM, AND AFTER THE MODIFICATIONS TO THE LIFT STATION IS COMPLETED, THE CONTRACTOR SHALL MONITOR THE NEW CYCLE TIME TO VERIFY THAT IT MIMICS THE PRIOR CYCLE TIME. THE CONTRACTOR SHALL ADJUST THE HIGH-WATER ELEVATIONS TO MIMIC THE CYCLE TIME TO THE SATISFACTION OF THE ENGINEER.



Lift Station "C" Existing Section

1/2" = 1'-0"



Lift Station "C" Proposed Section

1/2" = 1'-0"

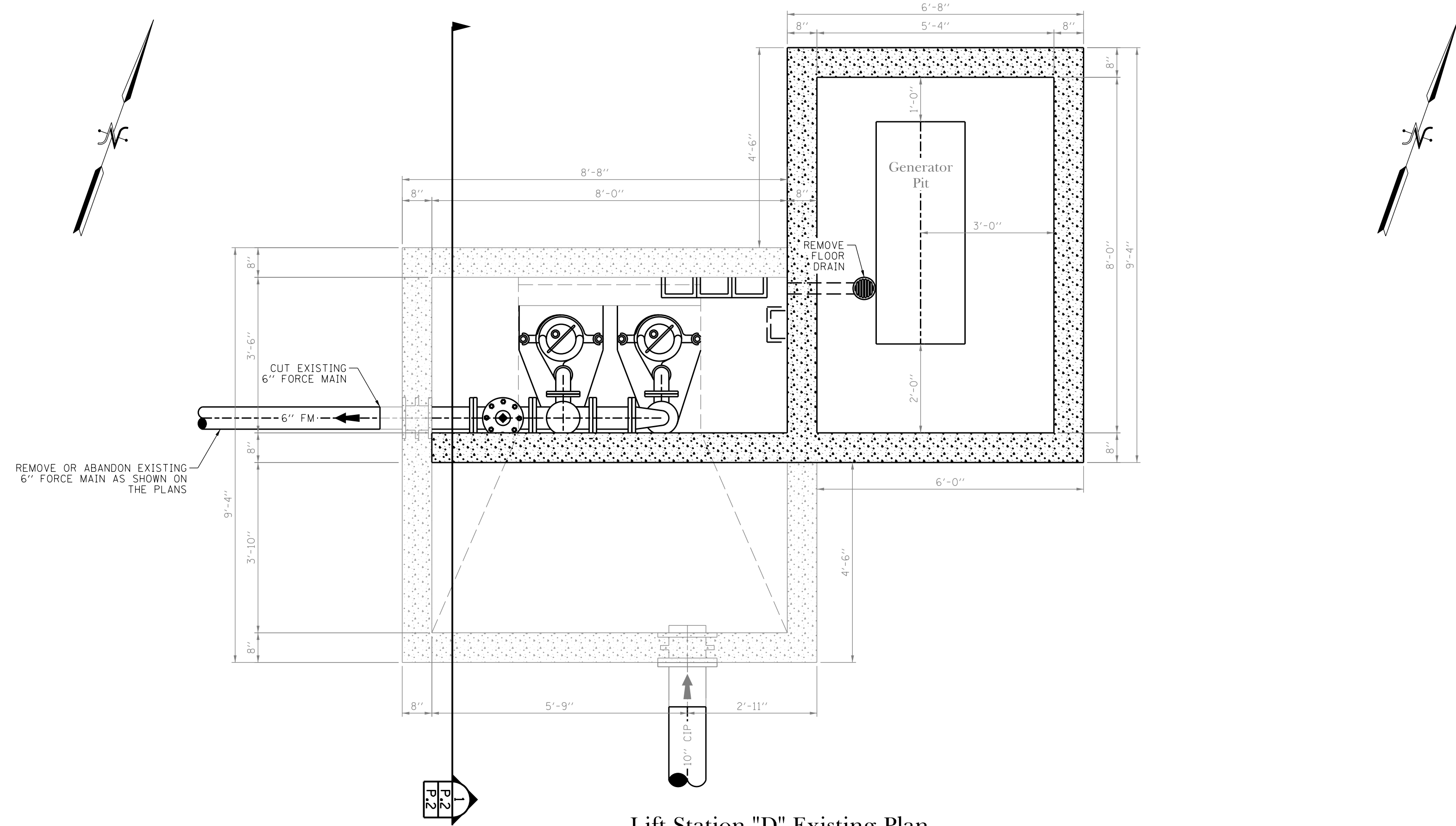
DATE	
ISSUE	0.
PROJECT STAFF	PROJECT MANAGER: SCOTT BROTHER P.E. ENGINEER: TERRY BROTHER P.E. ENGINEER: [blank] ENGINEER: [blank] TECHNICIAN: [blank] TECHNICIAN: [blank]
REVISIONS	
ISSUED FOR CONSTRUCTION	8/23/19

**TROTTER ASSOCIATES, INC.**  
ENGINEERS AND SURVEYORS  
40501 Wood Road, Suite D  
St. Charles, IL 60175  
Ph: 630.587.0700 • Fax: 630.587.0715

Downtown Streetscape Stage 2 Wet Utilities  
Lift Station "C" Modifications  
Algonquin, McHenry County, Illinois

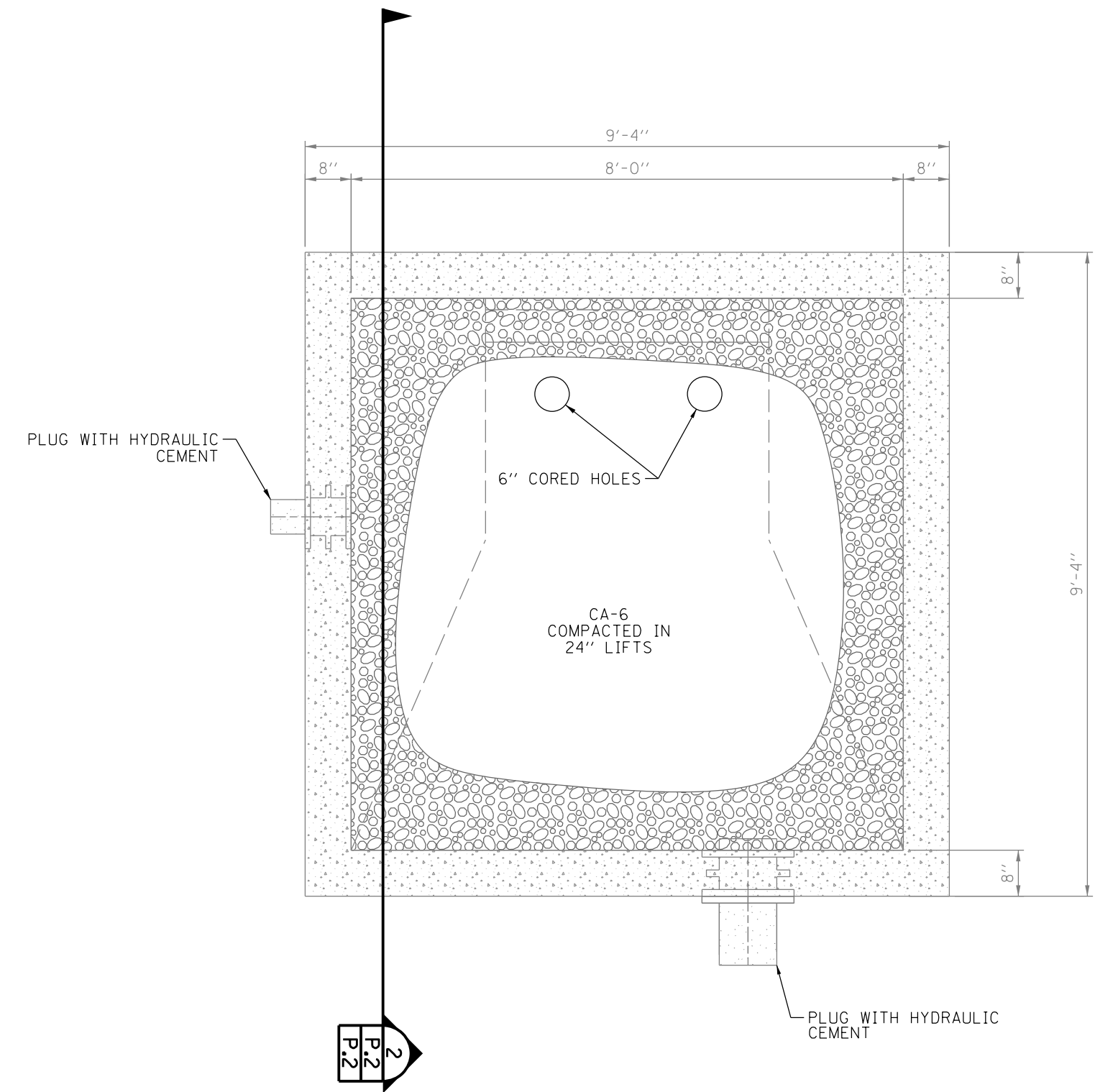
Project No.: ALG028C-1  
Base File: [blank]  
Sheet File: P.1.dgn  
Issue Date: 8/23/2019  
Scale: 1/2" = 1'-0"  
Sheet Number

**P.1**



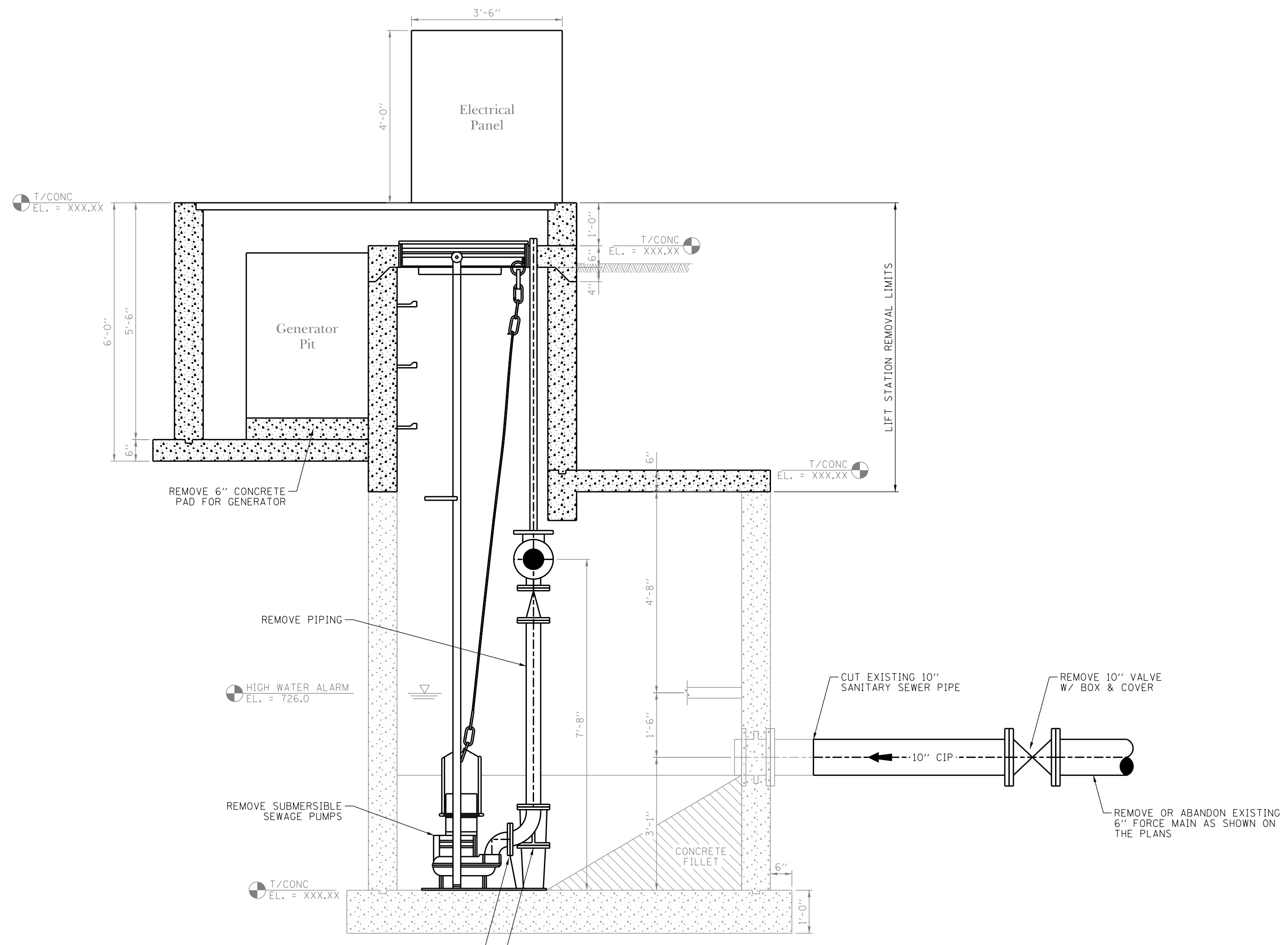
Lift Station "D" Existing Plan

1/2" = 1'-0"



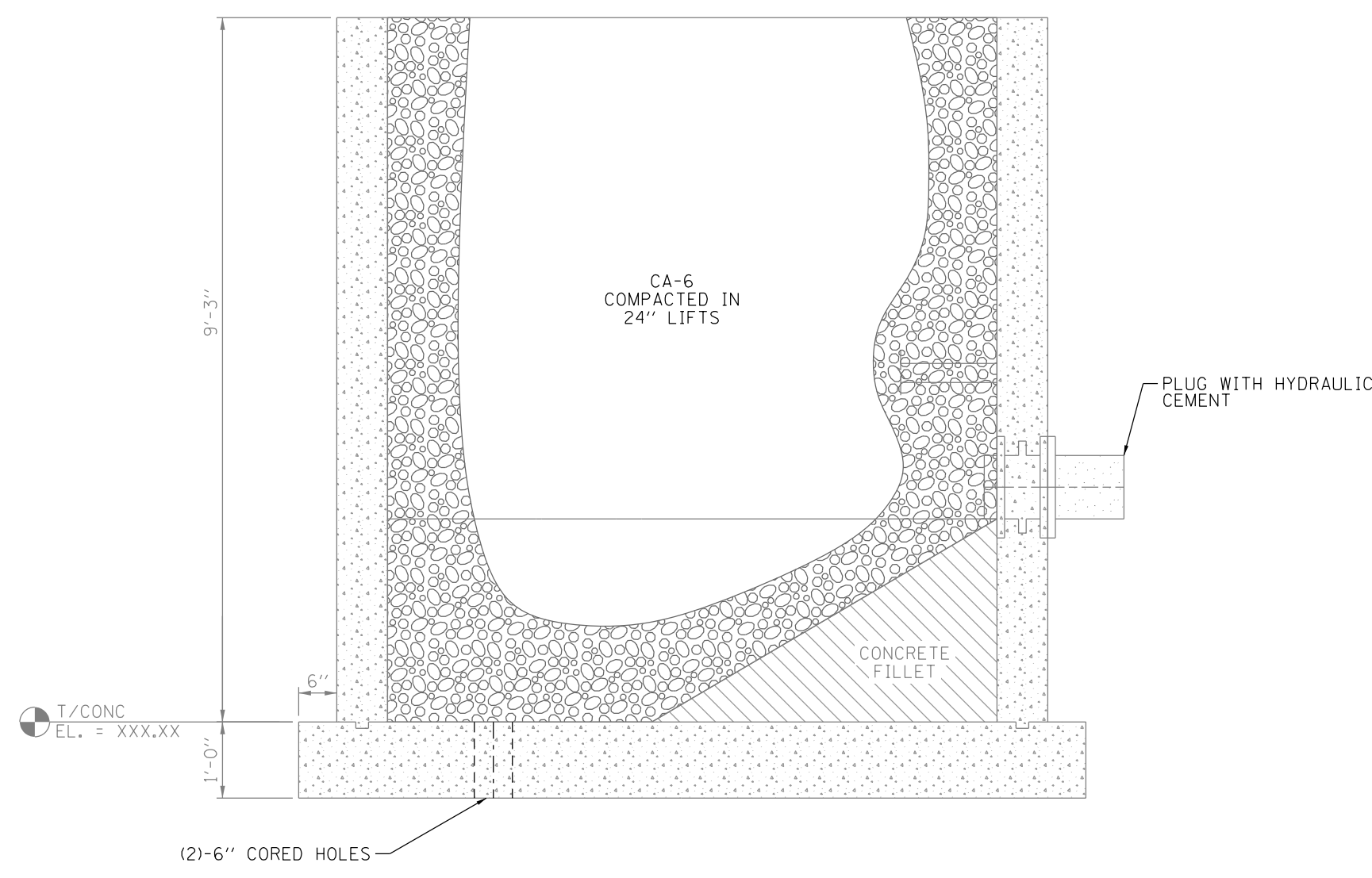
Lift Station "D" Proposed Plan

1/2" = 1'-0"



Lift Station "D" Existing Section

1/2" = 1'-0"



Lift Station "D" Proposed Section

1/2" = 1'-0"

PROJECT STAFF		DATE
PROJECT MANAGER	SCOTT BROTHERS, P.E.	
ENGINEER	TERRY BROTHERS, P.E.	
ENGINEER		
ENGINEER		
TECHNICIAN	MIKE WATSON	
TECHNICIAN		
ISSUE		0.
ISSUED FOR CONSTRUCTION		8/23/19

**TROTTER**  
**ASSOCIATES, INC.**  
**ENGINEERS AND SURVEYORS**  
 40501 Wisco Road, Suite D  
 St. Charles, IL 60175  
 Ph: 630-587-0700 • Fax: 630-587-0715

Downtown Streetscape Stage 2 Wet Utilities  
 Lift Station "D" Decommissioning  
 Algonquin, McHenry County, Illinois

Project No.:	ALG028C-1
Base File:	
Sheet File:	P.2.dgn
Issue Date:	8/23/2019
Scale:	1/2" = 1'-0"
Sheet Number	P.2