

FILE NAME = D:\Engineering\LiveProjects\13031\DOT East Ave\ADD\ADD Sheets\13031\13031-500.dgn

CONSTRUCTION CODE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY URBAN	CONSTRUCTION CODE													
				80% FED				VILLAGE OF HODGKINS		VILLAGE OF MCCOOK		CITY OF COUNTRYSIDE		VILLAGE OF MCCOOK			
				ROADWAY	RETAINING WALL	MINOR STRUCTURES	TRAFFIC SIGNALS	TRAFFIC SIGNALS	TRAFFIC SIGNALS	TRAFFIC SIGNALS	ROADWAY	HIGHWAY LIGHTING	ROADWAY	HIGHWAY LIGHTING	ROADWAY	HIGHWAY LIGHTING	TRAFFIC SIGNALS
0004	0044	0044	0021	0021	0021	0021	0004	0021	0004	0021	0004	0021	0004	0021			
URBAN	016-Z022	URBAN	URBAN	URBAN	URBAN	URBAN	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE			
35501320	HOT-MIX ASPHALT BASE COURSE, 9"	SQ YD	1553	1553													
35600711	HOT-MIX ASPHALT BASE COURSE WIDENING, 8 3/4"	SQ YD	1080	1080													
35600712	HOT-MIX ASPHALT BASE COURSE WIDENING, 9"	SQ YD	1302	1302													
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	26037	26037													
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	66336	66336													
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	202	202													
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	707	54						44		330		279			
40603200	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50	TON	1927	1927													
40603240	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90	TON	4132	4132													
40604060	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50	TON	890							89		360		441			
40605026	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, MIX "F", N80	TON	6445	6445													
42001300	PROTECTIVE COAT	SQ YD	8380	6486						203		652		1039			
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	14688							1820		4625		8243			
42400300	PORTLAND CEMENT CONCRETE SIDEWALK 6 INCH	SQ FT	2261	2261													

80% STP-SF 20% VIL

* SPECIALTY ITEM
 ^ HIGHWAY LIGHTING AND TRAFFIC SIGNALS (VILLAGE OF MCCOOK)

EAST @ 55TH EAST @ JOLIET 55TH @ SERGO AND 55TH @ ELECTROMOTIVE INTERCONNECT



USER NAME = jent	DESIGNED - JMT	REVISED -
DRAWN - JN	REVISIONS -	
PLOT SCALE = 2.0000' / in.	CHECKED - TGM	REVISED -
PLOT DATE = 8/10/2021	DATE - 07/30/2021	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
 EAST AVENUE (55TH ST TO JOLIET RD)

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE. 2719	SECTION 0102N&T	COUNTY COOK	TOTAL SHEETS 426	SHEET NO. 7
CONTRACT NO. 62C25			ILLINOIS FED. AID PROJECT	

REVISED SHEET 10/20/2021

FILE NAME = D:\Engineering\LiveProjects\13031 IDOT East Ave\CAD\CADD Sheets\Civil\0162C25-INT-SDD.dgn

CONSTRUCTION CODE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY URBAN	80% FED												VILLAGE OF HODGKINS		VILLAGE OF MCCOOK		CITY OF COUNTRYSIDE		VILLAGE OF MCCOOK
				20% STATE												80% STP-SF 20% VIL						
				ROADWAY	RETAINING WALL	MINOR STRUCTURES	TRAFFIC SIGNALS	ROADWAY	HIGHWAY LIGHTING	ROADWAY	HIGHWAY LIGHTING	ROADWAY	HIGHWAY LIGHTING	TRAFFIC SIGNALS								
0004	0044	0044	0021	0021	0021	0021	0021	0021	0021	0021	0021	0004	0021	0004	0021	0004	0021	0004	0021			
URBAN	016-Z022	URBAN	URBAN	URBAN	URBAN	URBAN	URBAN	URBAN	URBAN	URBAN	URBAN	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE			
42400800	DETECTABLE WARNINGS	SQ FT	845	845																		
44000100	PAVEMENT REMOVAL	SQ YD	21687	21687																		
44000159	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"	SQ YD	38970	38970																		
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	2968	2968																		
44000400	GUTTER REMOVAL	FOOT	39	39																		
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	13305	13305																		
44000600	SIDEWALK REMOVAL	SQ FT	21941	21941																		
44004250	PAVED SHOULDER REMOVAL	SQ YD	1557	1557																		
44200150	PAVEMENT PATCHING, TYPE IV, 12 INCH	SQ YD	2528	2528																		
44201737	CLASS D PATCHES, TYPE I, 8 INCH	SQ YD	300	300																		
44201741	CLASS D PATCHES, TYPE II, 8 INCH	SQ YD	375	375																		
44201745	CLASS D PATCHES, TYPE III, 8 INCH	SQ YD	225	225																		
44201747	CLASS D PATCHES, TYPE IV, 8 INCH	SQ YD	600	600																		
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	109	109																		



* SPECIALTY ITEM
 ^ HIGHWAY LIGHTING AND TRAFFIC SIGNALS (VILLAGE OF MCCOOK)

EAST @ 55TH EAST @ JOLIET 55TH @ SERGO AND 55TH @ ELECTROMOTIVE INTERCONNECT



USER NAME = jent	DESIGNED - JMT	REVISED -
DRAWN - JN	REVISIONS -	
PLLOT SCALE = 2.0000' / in.	CHECKED - TGM	REVISIONS -
PLLOT DATE = 8/10/2021	DATE - 07/30/2021	REVISIONS -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES			
EAST AVENUE (55TH ST TO JOLIET RD)			
SCALE:	SHEET	OF	SHEETS
	STA.		TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	0102N&T	COOK	426	8
CONTRACT NO. 62C25			ILLINOIS FED. AID PROJECT	

REVISED SHEET 10/20/2021

FILE NAME = Q:\Engineering\LiveProjects\13031 IODT East Ave\CAD\CADD Sheets\Civil\162C25-shr-500.dgn

CODE NO.	ITEM	UNIT	TOTAL QUANTITY URBAN	CONSTRUCTION CODE											
				80% FED				VILLAGE OF HODGKINS		VILLAGE OF MCCOOK		CITY OF COUNTRYSIDE		VILLAGE OF MCCOOK	
				20% STATE				80% STP-SF 20% VIL	80% STP-SF 20% VIL	80% STP-SF 20% VIL	80% STP-SF 20% VIL	80% STP-SF 20% CITY	80% STP-SF 20% CITY	80% STP-SF 20% VIL	
				ROADWAY	RETAINING WALL	MINOR STRUCTURES	TRAFFIC SIGNALS	TRAFFIC SIGNALS	TRAFFIC SIGNALS	TRAFFIC SIGNALS	ROADWAY	HIGHWAY LIGHTING	ROADWAY	HIGHWAY ^ LIGHTING	ROADWAY
0004 URBAN	0044 016-Z022	0044 URBAN	0021 URBAN	0021 URBAN	0021 URBAN	0021 URBAN	0004 NONE	0021 NONE	0004 NONE	0021 NONE	0004 NONE	0021 NONE	0021 NONE		
50102400	CONCRETE REMOVAL	CU YD	1			1									
50200100	STRUCTURE EXCAVATION	CU YD	974		974										
50300225	CONCRETE STRUCTURES	CU YD	191.2 191.3		190.6	0.6 0.7									
50500405	FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	780		780										
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	23020		23020										
50901760	PIPE HANDRAIL	FOOT	1604		1604										
51500100	NAME PLATES	EACH	1		1										
52200105	FURNISHING SOLDIER PILES (W SECTION)	FOOT	6017		6017										
52200200	DRILLING AND SETTING SOLDIER PILES (IN SOIL)	CU FT	20011		20011										
52200205	DRILLING AND SETTING SOLDIER PILES (IN ROCK)	CU FT	14457		14457										
52200255	TREATED TIMBER LAGGING	SQ FT	9199		9199										
52200800	SEGMENTAL CONCRETE BLOCK WALL	SQ FT	937			937									
54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	EACH	1	1											
54213663	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 18"	EACH	5	5											

* SPECIALTY ITEM
 ^ HIGHWAY LIGHTING AND TRAFFIC SIGNALS (VILLAGE OF MCCOOK)

EAST @ 55TH EAST @ JOLIET 55TH @ SERGO AND 55TH @ ELECTROMOTIVE INTERCONNECT



USER NAME = jent	DESIGNED - JMT	REVISED -
DRAWN - JN	REVISIONS -	
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PLOT DATE = 8/10/2021	DATE - 07/30/2021	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES			
EAST AVENUE (55TH ST TO JOLIET RD)			
SCALE:	SHEET	OF	SHEETS
	STA.		TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	0102N&T	COOK	426	9
CONTRACT NO. 62C25			REVISED SHEET 10/20/2021	
ILLINOIS FED. AID PROJECT				

FILE NAME = Q:\Engineering\LiveProjects\13031 IODT East Ave\CAD\CADD Sheets\Civil\162C25-shr-500.dgn

CODE NO.	ITEM	UNIT	TOTAL QUANTITY URBAN	CONSTRUCTION CODE											
				80% FED				VILLAGE OF HODGKINS		VILLAGE OF MCCOOK		CITY OF COUNTRYSIDE		VILLAGE OF MCCOOK	
				20% STATE				80% STP-SF 20% VIL	80% STP-SF 20% VIL	80% STP-SF 20% VIL	80% STP-SF 20% VIL	80% STP-SF 20% CITY	80% STP-SF 20% CITY	80% STP-SF 20% VIL	
				ROADWAY	RETAINING WALL	MINOR STRUCTURES	TRAFFIC SIGNALS	TRAFFIC SIGNALS	TRAFFIC SIGNALS	TRAFFIC SIGNALS	ROADWAY	HIGHWAY LIGHTING	ROADWAY	HIGHWAY LIGHTING	ROADWAY
0004 URBAN	0044 016-Z022	0044 URBAN	0021 URBAN	0021 URBAN	0021 URBAN	0021 URBAN	0004 NONE	0021 NONE	0004 NONE	0021 NONE	0004 NONE	0021 NONE	0021 NONE		
54213669	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"	EACH	1	1											
550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	1261	1261											
550A0330	STORM SEWERS, CLASS A, TYPE 2 10"	FOOT	3	3											
550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	FOOT	2280	2280											
550A0360	STORM SEWERS, CLASS A, TYPE 2 15"	FOOT	228	228											
550A0380	STORM SEWERS, CLASS A, TYPE 2 18"	FOOT	1184	1184											
550A0410	STORM SEWERS, CLASS A, TYPE 2 24"	FOOT	554	554											
550A0430	STORM SEWERS, CLASS A, TYPE 2 30"	FOOT	799	799											
550A0450	STORM SEWERS, CLASS A, TYPE 2 36"	FOOT	1031	1031											
550A0680	STORM SEWERS, CLASS A, TYPE 3 18"	FOOT	63	63											
55100300	STORM SEWER REMOVAL 8"	FOOT	106	106											
55100400	STORM SEWER REMOVAL 10"	FOOT	582	582											
55100500	STORM SEWER REMOVAL 12"	FOOT	1485	1485											
55100700	STORM SEWER REMOVAL 15"	FOOT	308	308											

* SPECIALTY ITEM
 ^ HIGHWAY LIGHTING AND TRAFFIC SIGNALS (VILLAGE OF MCCOOK)

EAST @ 55TH EAST @ JOLIET 55TH @ SERGO AND 55TH @ ELECTROMOTIVE INTERCONNECT



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PLOT DATE = 8/10/2021	DATE - 07/30/2021	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES			
EAST AVENUE (55TH ST TO JOLIET RD)			
SCALE:	SHEET	OF	SHEETS
	STA.		TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	0102N&T	COOK	426	10
CONTRACT NO. 62C25			ILLINOIS FED. AID PROJECT	

1 REVISED SHEET 10/20/2021

FILE NAME = Q:\Engineering\LiveProjects\13031 DOT East Ave\CAD\CADD Sheets\1\1\162C25-INT-SDD.dgn

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE														
				80% FED								VILLAGE OF HODGKINS		VILLAGE OF MCCOOK		CITY OF COUNTRYSIDE		VILLAGE OF MCCOOK
				20% STATE								80% STP-SF 20% VIL	80% STP-SF 20% VIL	80% STP-SF 20% VIL	80% STP-SF 20% VIL	80% STP-SF 20% CITY	80% STP-SF 20% CITY	80% STP-SF 20% VIL
				ROADWAY	RETAINING WALL	MINOR STRUCTURES	TRAFFIC SIGNALS	TRAFFIC SIGNALS	TRAFFIC SIGNALS	TRAFFIC SIGNALS	ROADWAY	HIGHWAY LIGHTING	ROADWAY	HIGHWAY ^ LIGHTING	ROADWAY	HIGHWAY LIGHTING	TRAFFIC SIGNALS	
0004	0044	0044	0021	0021	0021	0021	0004	0021	0004	0021	0004	0021	0021					
URBAN	016-Z022	URBAN	URBAN	URBAN	URBAN	URBAN	NONE	NONE	NONE	NONE	NONE	NONE	NONE					
* B2000666	TREE, AMELANCHIER X GRANDIFLORA (APPLE SERVICEBERRY), 6' HEIGHT, SHRUB FORM, BALLED AND BURLAPPED	EACH	12	12														
* B2001668	TREE, CRATAEGUS CRUSGALLI INERMIS (THORN LESS COCKSPUR HAWTHORN), 7' HEIGHT, SHRUB FORM, BALLED AND BURLAPPED	EACH	9	9														
* C2003260	SHRUB, HAMAMELIS VERNALIS (VERNAL WITCH HAZEL), 5' HEIGHT, BALLED AND BURLAPPED	EACH	4	4														
* C2C05724	SHRUB, RHUS AROMATICA (FRAGRANT SUMAC), 2' WIDTH, CONTAINER	EACH	75	75														
* K0012970	PERENNIAL PLANTS, BULB TYPE	UNIT	14	14														
* K0013000	PERENNIAL PLANTS, PRAIRIE TYPE, 2" DIAMETER BY 4" DEEP PLUG	UNIT	30	30														
* K0013030	PERENNIAL PLANTS, WETLAND TYPE, 2" DIAMETER BY 4" DEEP PLUG	UNIT	2	2														
* K0026700	TREE CARE	EACH	26	26														
* K0026810	SHRUB CARE	EACH	6	6														
* K0026850	PERENNIAL PLANT CARE	SQ YD	1033	1033														
* K0029634	WEED CONTROL, PRE-EMERGENT GRANULAR HERBICIDE	POUND	20	20														
* K0036117	MULCH PLACEMENT 2"	SQ YD	196	196														
* K1005465	SELECTIVE MOWING STAKES	EACH	9	9														
* X0323818	CLEANING AND PAINTING EXPOSED REBAR	SQ FT	37.5	37.5														
* X0322992	COARSE SAND PLACEMENT, 4"	SQ YD	381	381														

* SPECIALTY ITEM
 ^ HIGHWAY LIGHTING AND TRAFFIC SIGNALS (VILLAGE OF MCCOOK)

EAST @ 55TH EAST @ JOLIET 55TH @ SERGO AND 55TH @ ELECTROMOTIVE INTERCONNECT



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PLLOT DATE = 8/10/2021		

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES			
EAST AVENUE (55TH ST TO JOLIET RD)			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	0102N&T	COOK	426	22
CONTRACT NO.			62C25	
ILLINOIS FED. AID PROJECT				

REVISOR SHEET 10/20/2021

Benchmark: Chiseled Square on south side of traffic signal concrete foundation at NW corner of 55th St. and Sergo Drive. Elev. 651.20

Existing Structure: Existing Structure 016-2154 is a cast-in place concrete single cell Box Culvert 6'x4' carrying 55th Street over East Ave. Drainage Ditch. The structure is located east of S.N.: 016-2155. The overall length of the culvert is approximately 63'-4" out to out of headwalls.

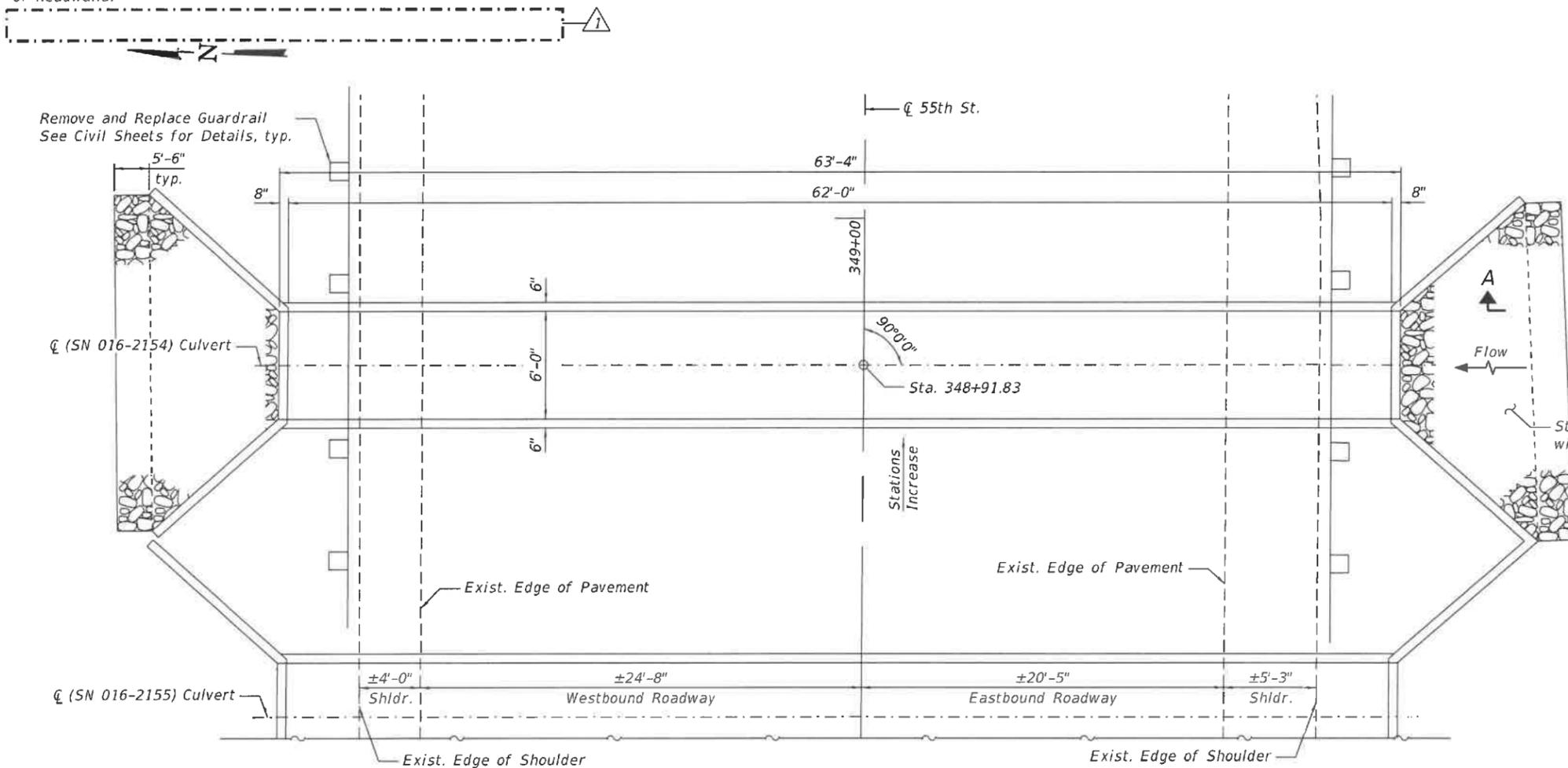
INDEX OF SHEETS

S-1. General Plan and Elevation

S-2. Culvert Repair Details

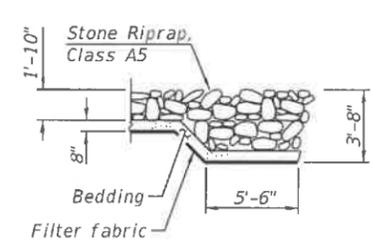
SCOPE OF WORK

1. Perform Structural Repair of Concrete and Epoxy Crack Injection.
2. Remove Debris in channel at upstream and downstream end of the culvert.
3. Clean Existing Box Culvert.
4. Place Rip-rap at upstream and downstream end.



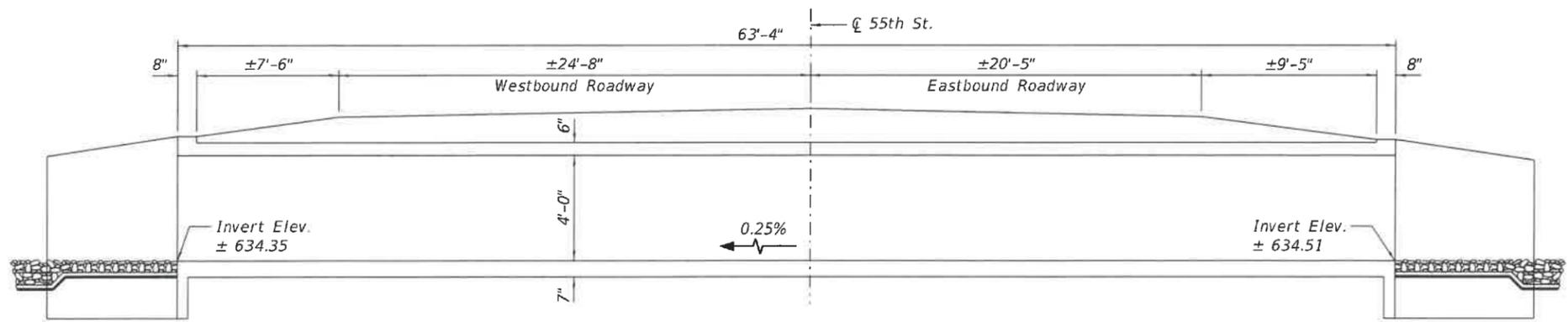
STATE OF ILLINOIS
 MAEN A. FARHAT
 081.008545
 LICENSED STRUCTURAL ENGINEER

Signed: *Maen Farhat*
 MAEN A. FARHAT, SE
 IL Lic. No.: 081-008545
 Expires: 11/30/2022

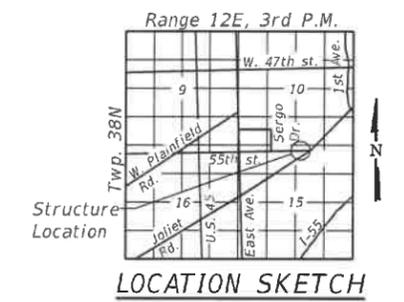


SECTION A-A

PLAN



LONGITUDINAL SECTION



GENERAL PLAN AND ELEVATION
55TH ST. (F.A.U. 2719)
OVER EAST AVE. DRAINAGE DITCH
SECTION NO. 0102N&T
COOK COUNTY
STATION 348+91.83
STRUCTURE NO. 016-2154

REVISED SHEET 10/20/2021

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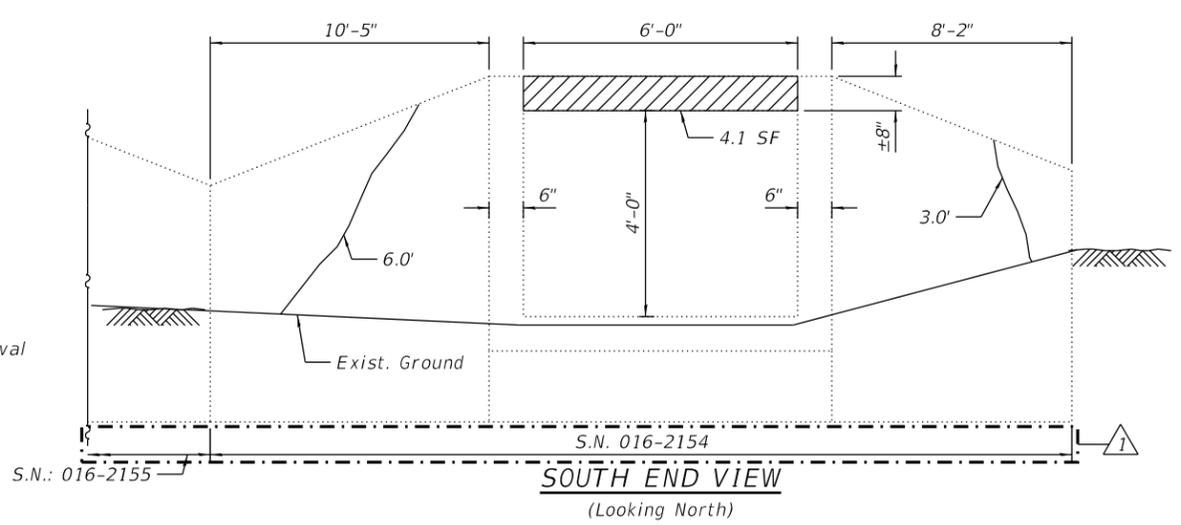
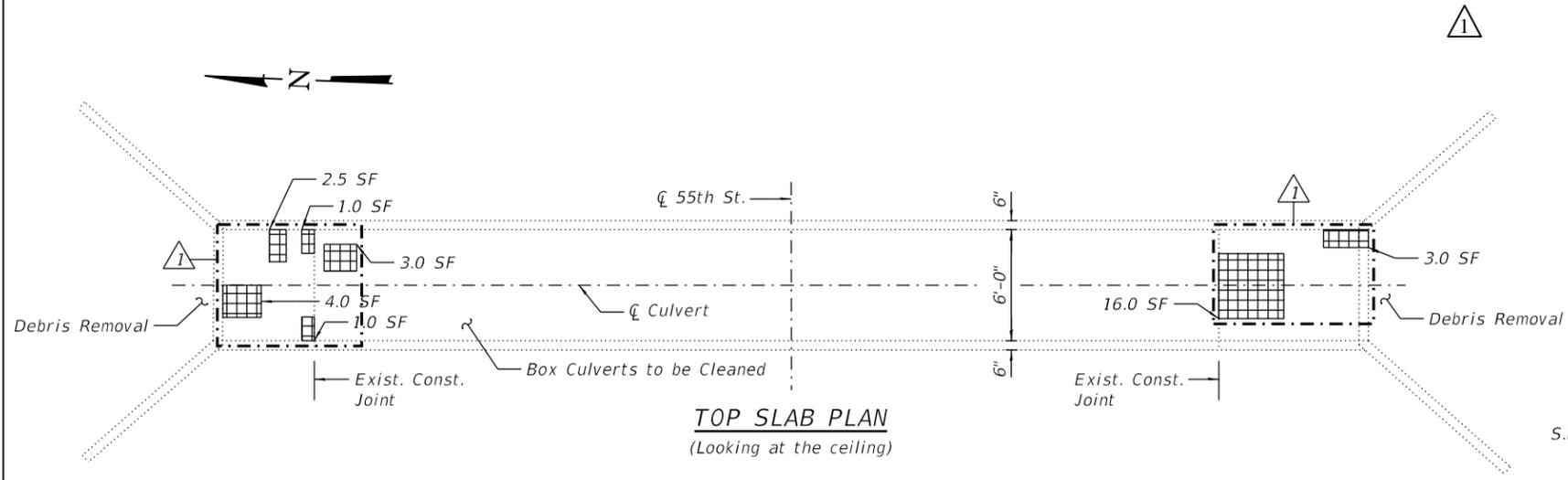


USER NAME = dwojck	DESIGNED - SAT	REVISED - 10/19/2021 MAF
PLOT SCALE =	CHECKED - JMT	REVISED -
PLOT DATE = 10/18/2021	DRAWN - SAT	REVISED -
	CHECKED - SPS	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SHEET S-1 OF S-2 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	0102N&T	COOK	426	329
CONTRACT NO. 62C25				
ILLINOIS FED. AID PROJECT				



GENERAL NOTES

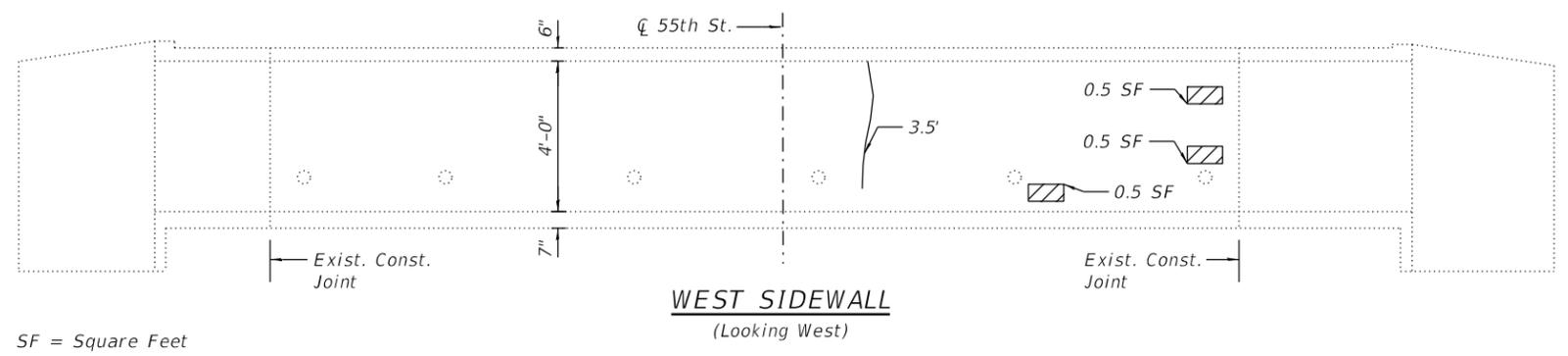
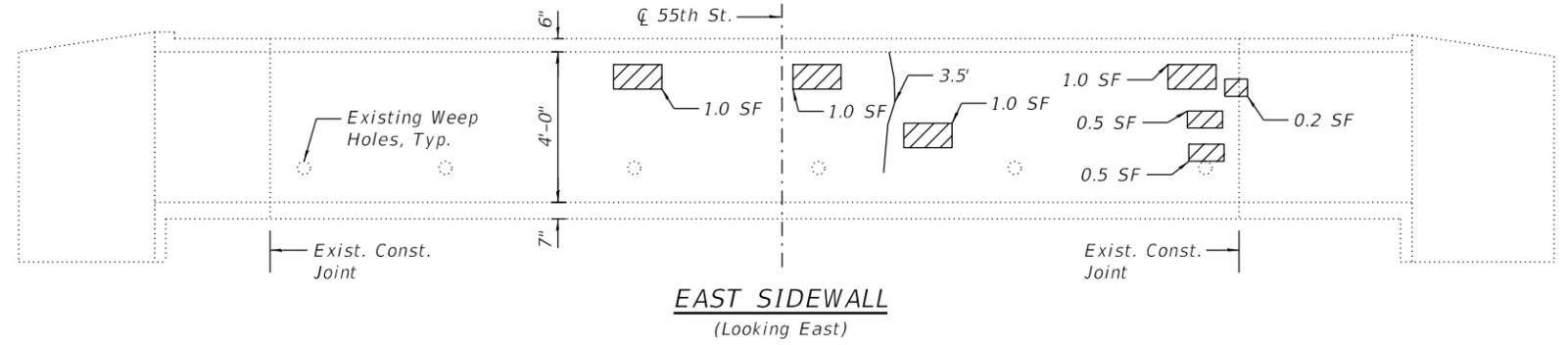
1. Culvert repairs to be performed during low flow.
2. Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
3. Areas shown for Concrete Repairs are estimated. The Engineer shall mark the areas in the field and show the actual areas on As-built plans.
4. The 2 year peak flow rate is 10.7 cfs.

LEGEND

- Structural Repair of Concrete (Depth Equal to or less than 5")
- Cleaning and Painting Exposed Rebar
- 3.5' Epoxy Crack Injection

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Stone Riprap, Class A5	Sq. Yd.	18
Filter Fabric	Sq. Yd.	18
Epoxy Crack Injection	Foot	16
Box Culverts to be Cleaned	Foot	63.3
Structural Repair of Concrete (Depth Equal to or less than 5")	Sq. Ft.	11
Debris Removal	L. Sum	0.25
Cleaning and Painting Exposed Rebar	Sq. Ft.	31



SF = Square Feet

MODEL: Default
FILE NAME: Q:\Engineering\Live\Projects\13031_IDOT_East_Ave\CADD\CADD_Sheets\Structural\016-2154-002_Culvert_Repairs.dgn



USER NAME =	dwojck	DESIGNED -	SAT	REVISED -	10/19/2021 MAF
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PLOT DATE =	10/18/2021	DRAWN -	SAT	REVISED -	
		CHECKED -	SPS	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CULVERT REPAIR DETAILS
STRUCTURE NO. 016-2154

SHEET S-2 OF S-2 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	0102N&T	COOK	426	330
CONTRACT NO. 62C25				
ILLINOIS FED. AID PROJECT				

REVISION 1 REVISED SHEET 10/20/2021

Benchmark: Chieseled Square on south side of traffic signal concrete foundation at NW corner of 55th St. and Sergio Drive.
Elev. 651.20

Existing Structure: Existing Structure 016-2155 is a cast-in place concrete single cell Box Culvert 6'x5'-6" carrying 55th Street over East Ave. Drainage Ditch. The structure is located west of S.N.: 016-2154. The overall length of the culvert is approximately 63'-4" out to out of headwalls.

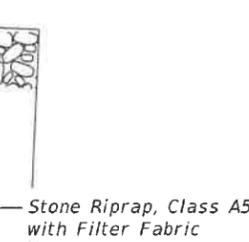
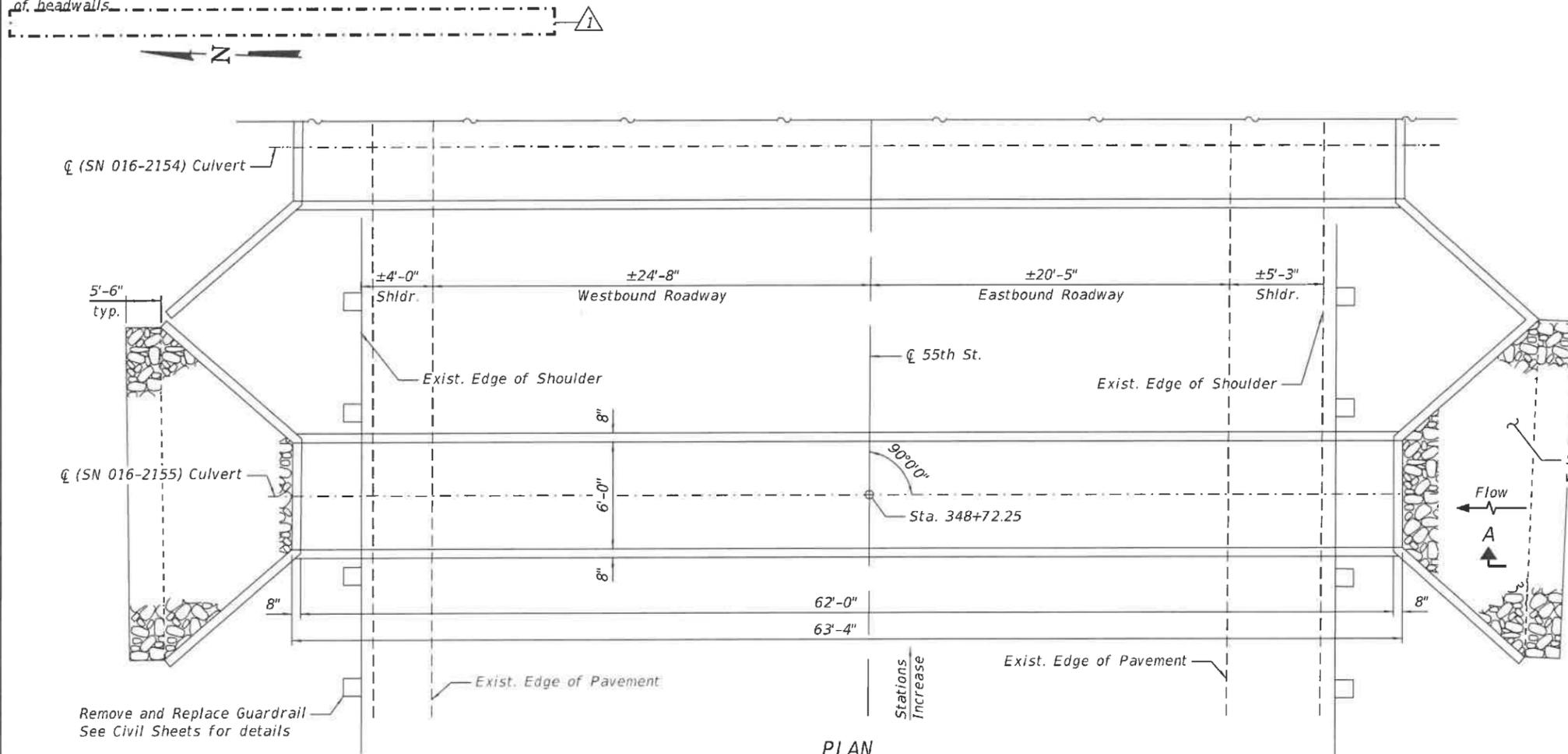
INDEX OF SHEETS

S-1. General Plan and Elevation

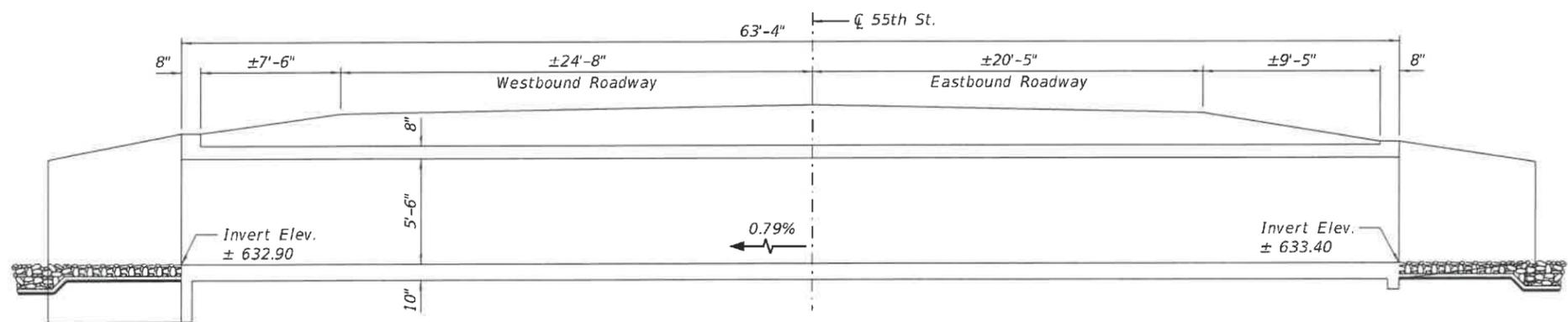
S-2. Culvert Repair Details

SCOPE OF WORK

1. Perform Structural Repair of Concrete and Epoxy Crack Injection.
2. Remove Debris at upstream and downstream end of the culvert.
3. Clean Existing Box Culvert.
4. Install Riprap at upstream and downstream end.



Signed: *Maen Farhat*
 MAEN A. FARHAT, SE
 IL Lic. No.: 081-008545
 Expires: 11/30/2022



**GENERAL PLAN AND ELEVATION
 55TH ST. (F.A.U. 2719)
 OVER EAST AVE. DRAINAGE DITCH
 SECTION NO. 0102N&T
 COOK COUNTY
 STATION 348+72.25
 STRUCTURE NO. 016-2155**

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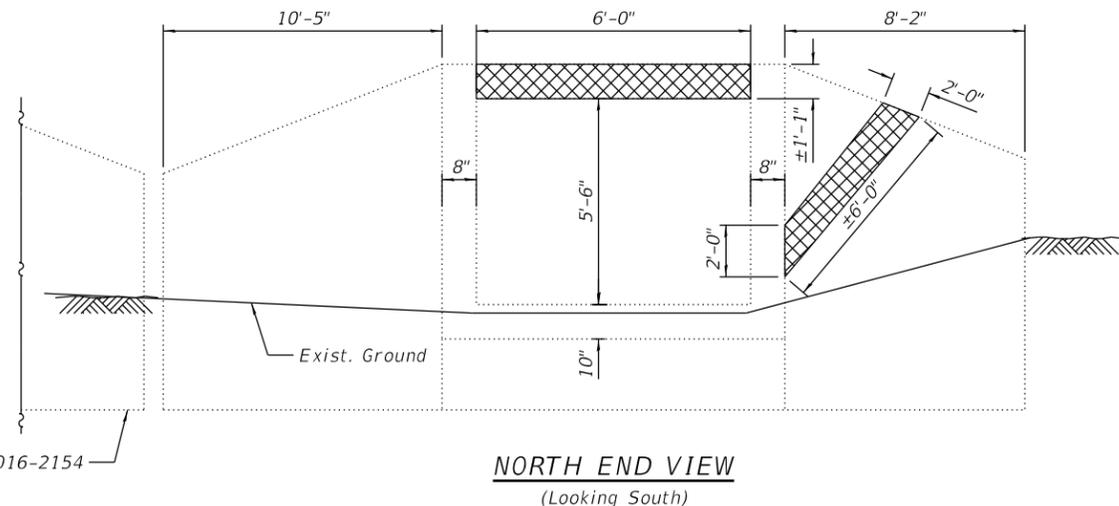
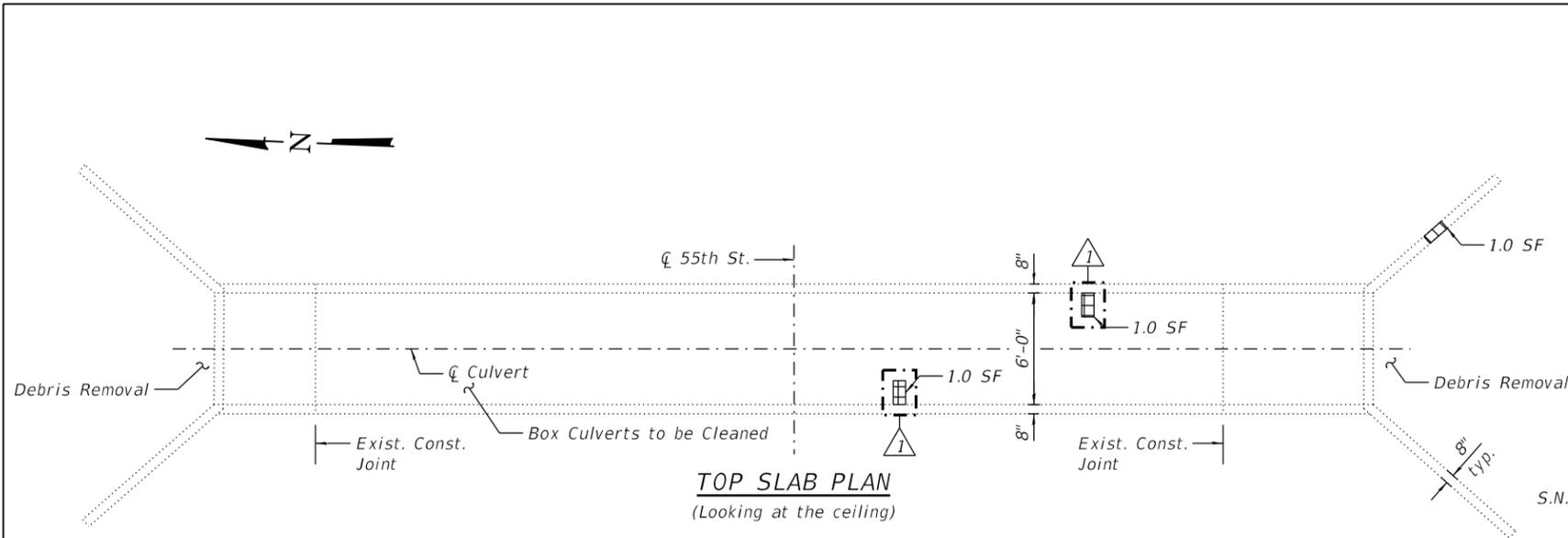
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PLOT DATE = 10/18/2021	CHECKED - SPS	

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SHEET S-1 OF S-2 SHEETS

F.A.U. RTE. 2719	SECTION 0102N&T	COUNTY COOK	TOTAL SHEETS 426	SHEET NO. 331
CONTRACT NO. 62C25				
ILLINOIS FED. AID PROJECT				

REVISED SHEET 10/20/2021



GENERAL NOTES

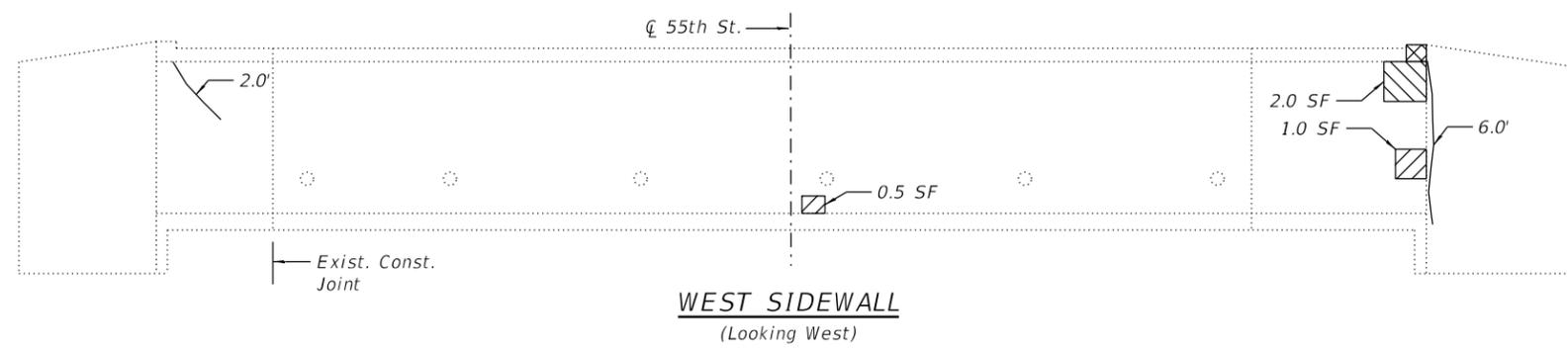
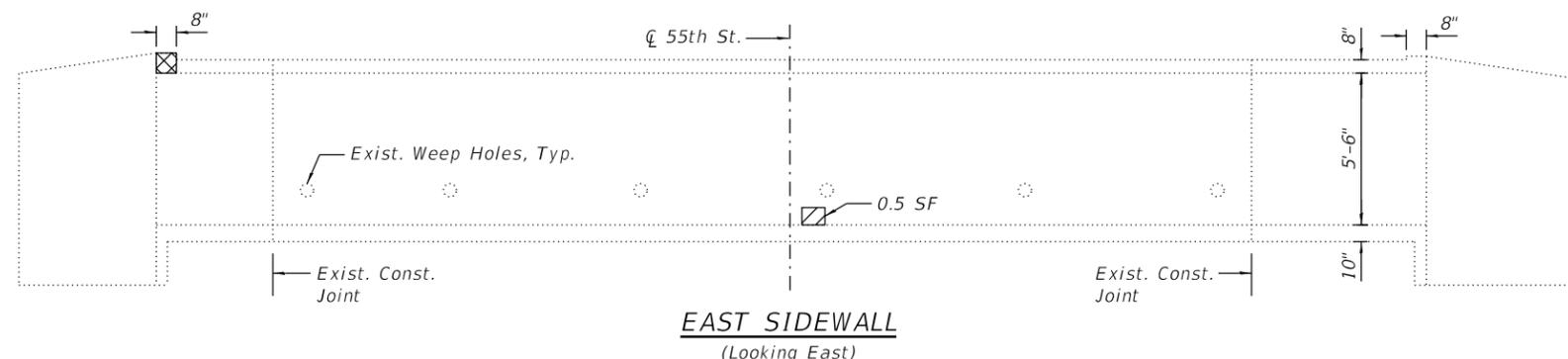
- Culvert repairs to be performed during low flow.
- Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
- Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.
- Areas shown for Concrete Repairs are estimated. The Engineer shall mark the areas in the field and show the actual areas on As-built plans.
- The 2 year peak flow rate is 10.7 cfs.

LEGEND

- Structural Repair of Concrete (Depth Equal to or less than 5")
 - Structural Repair of Concrete (Depth Greater than 5")
 - Concrete Removal and Concrete Structures
 - Cleaning and Painting Exposed Rebar
 - Epoxy Crack Injection
- SF = Square Feet

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Stone Riprap, Class A5	Sq. Yd.	18
Filter Fabric	Sq. Yd.	18
Concrete Removal	Cu. Yd.	0.5
Concrete Structures	Cu. Yd.	0.5
Epoxy Crack Injection	Foot	8
Box Culverts to be Cleaned	Foot	63.3
Structural Repair of Concrete (Depth Equal to or less than 5")	Sq. Ft.	2
Structural Repair of Concrete (Depth Greater than 5")	Sq. Ft.	3
Debris Removal	L. Sum	0.25
Cleaning and Painting Exposed Rebar	Sq. Ft.	2



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PLOT DATE = 10/18/2021	DRAWN - SAT	REVISED -
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CULVERT REPAIR DETAILS
STRUCTURE NO. 016-2155**

SHEET S-2 OF S-2 SHEETS

1 REVISED SHEET 10/20/2021

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	0102N&T	COOK	426	332
CONTRACT NO. 62C25				
ILLINOIS FED. AID PROJECT				

Benchmark: "X" Cut on bolt of hydrant on the west side of East Ave. at 5740 S. East Ave. approximately 100' north of W. 58th Street. Elev. 646.59

Existing Structure: Existing Structure 016-2158 is a cast-in place concrete double cell Box Culvert 5'x5' carrying East Ave. over south culvert outlet to East Ave. drainage ditch. The structure is located north of W. 58th St. The length of the culvert is approximately 64'-8". Upstream end of the box culvert is closed with a junction chamber and a storm sewer.

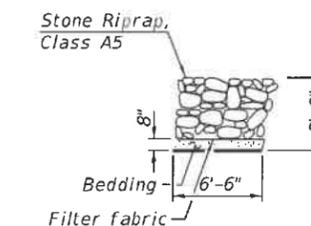
Traffic will be maintained utilizing staged construction during repairs.

INDEX OF SHEETS

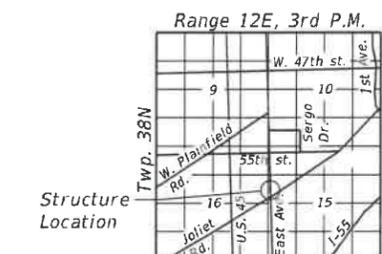
- S-1. General Plan and Elevation
- S-2. Culvert Repair Details

SCOPE OF WORK

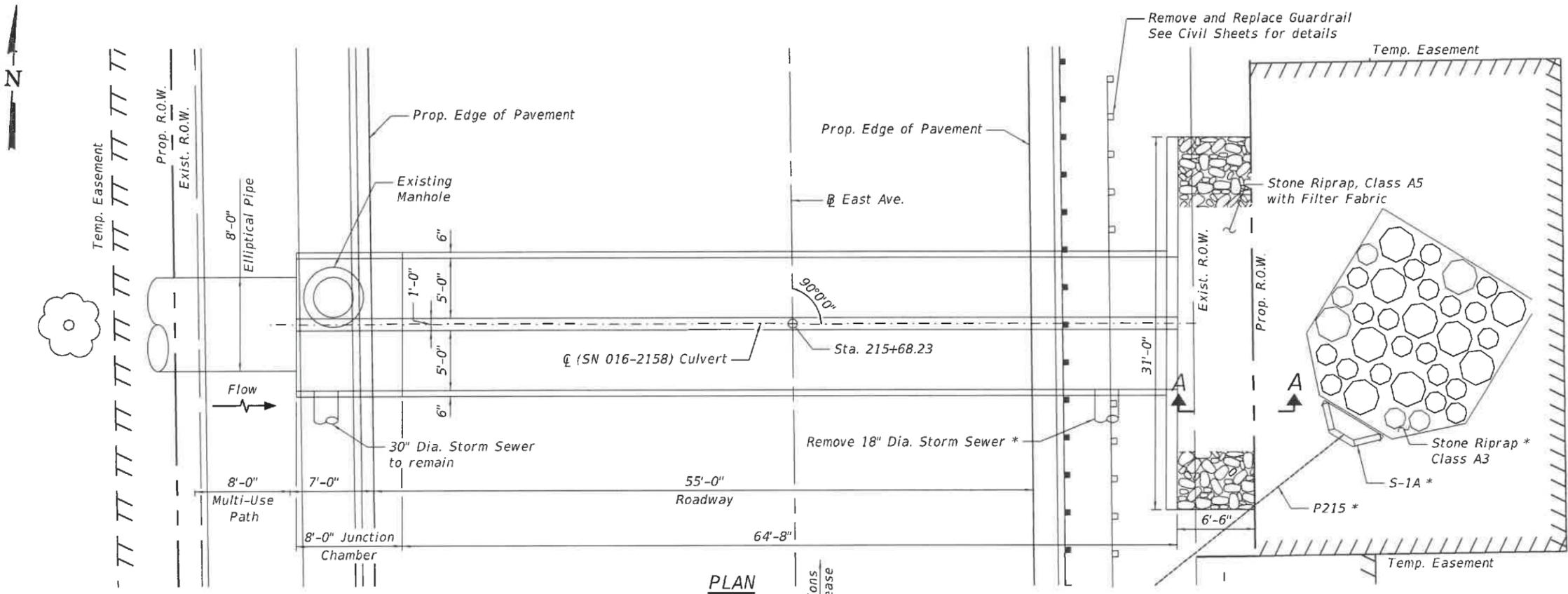
1. Perform Structural Repair of Concrete and Epoxy Crack Injection.
2. Remove Debris at downstream end of the culvert.
3. Clean Existing Box Culvert.
4. Place Riprap at downstream end.
5. Remove and Replace the Storm Sewer at the south-east corner of the culvert.



SECTION A-A

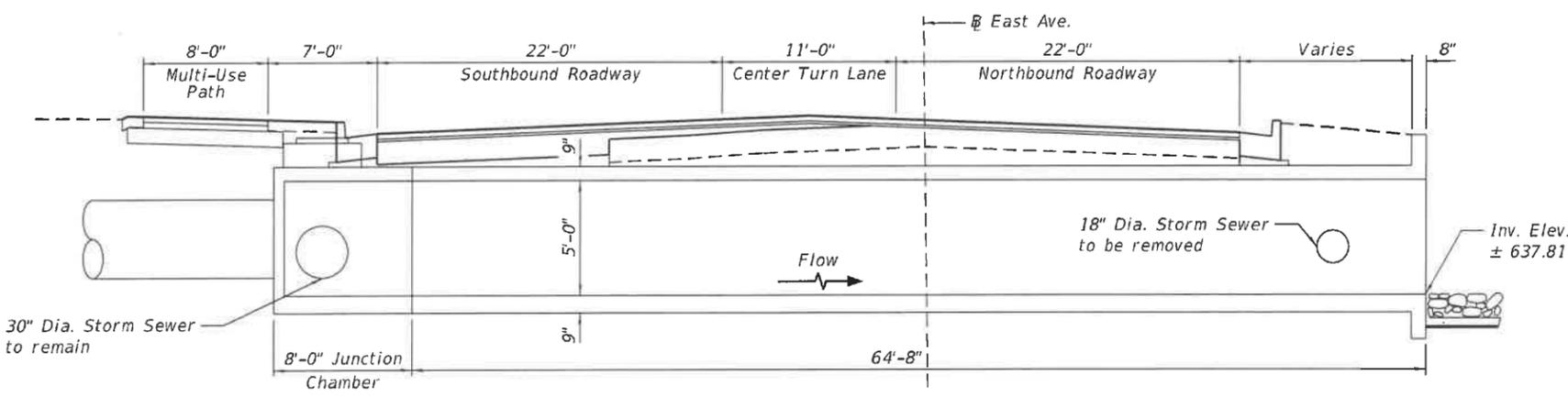


LOCATION SKETCH



PLAN

* See Drainage Sheets for details.



LONGITUDINAL SECTION



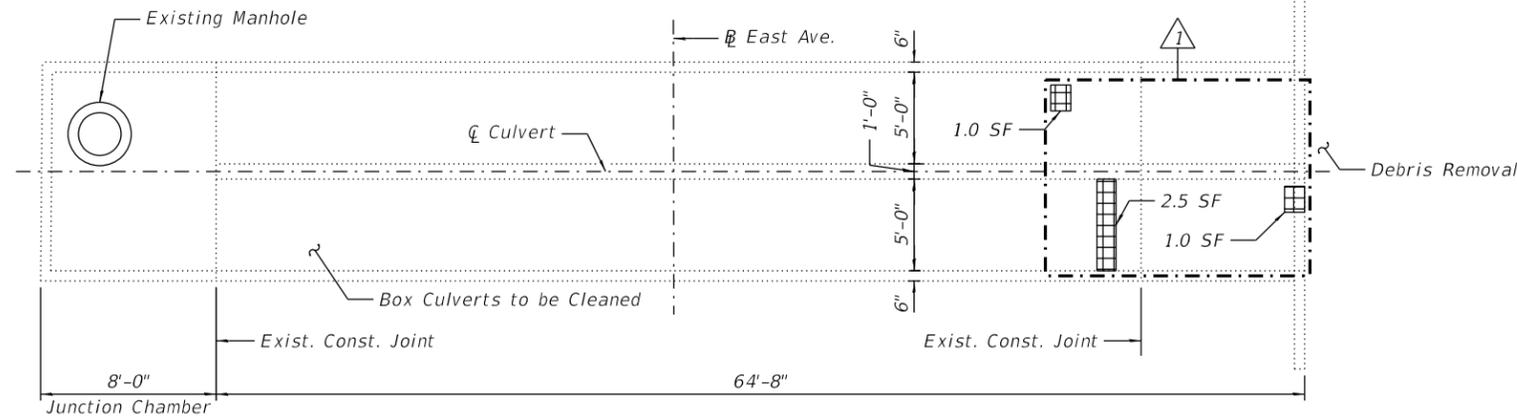
Signed: *Maen Farhat*
 MAEN A. FARHAT, SE
 IL Lic. No.: 081-008545
 Expires: 11/30/2022

**GENERAL PLAN AND ELEVATION
 EAST AVE. (F.A.U. 2719)
 OVER SOUTH CULVERT OUTLET
 TO EAST AVE. DRAINAGE DITCH
 SECTION NO. 0102N&T
 COOK COUNTY
 STATION 215+68.23
 STRUCTURE NO. 016-2158**

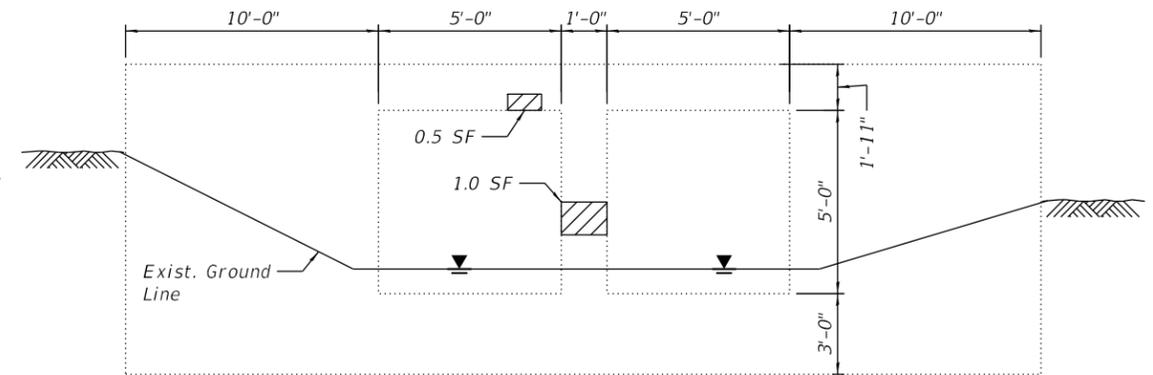
REVISOR SHEET 10/20/2021

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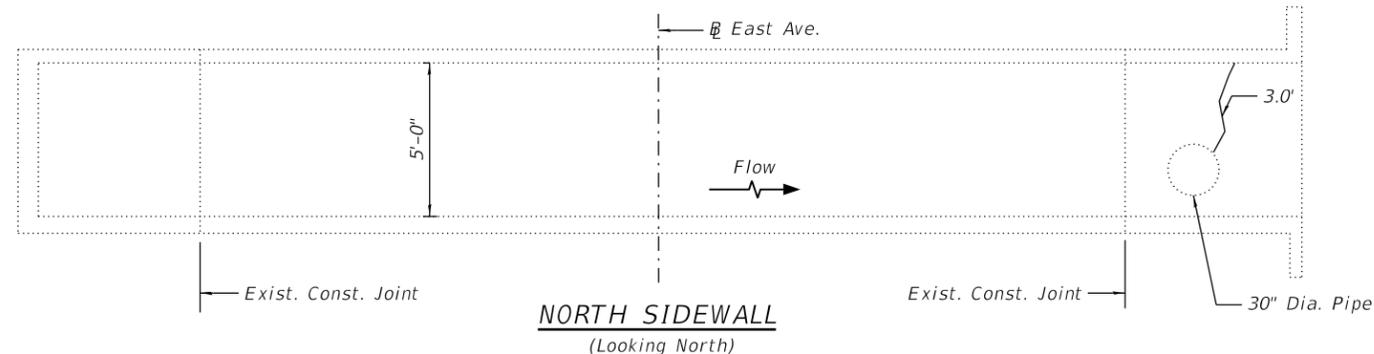
TOP SLAB PLAN
(Looking at the ceiling)



EAST END VIEW
(Looking West)

GENERAL NOTES

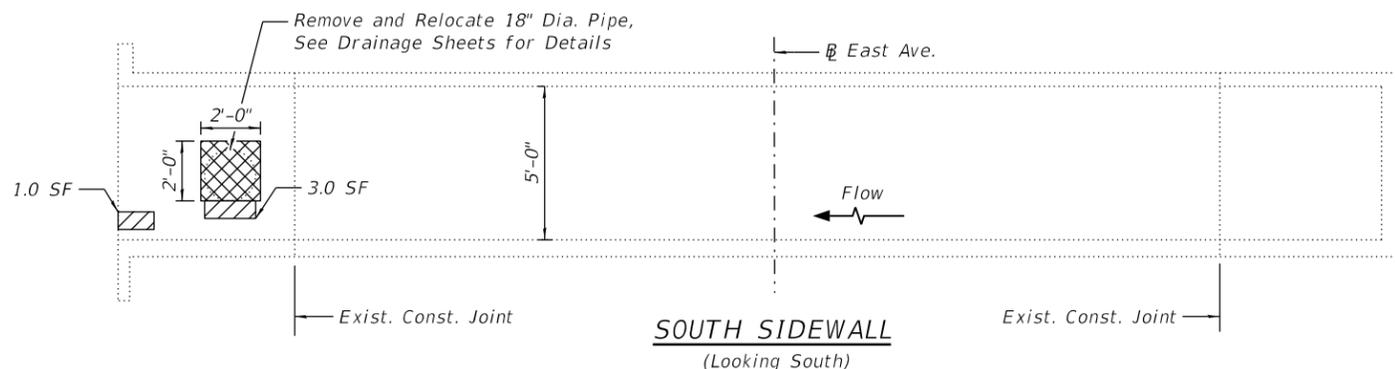
- Culvert repairs to be performed during low flow.
- Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
- Areas shown for Concrete Repairs are estimated. The Engineer shall mark the areas in the field and show the actual areas on As-built plans.
- The 2 year peak flow rate is 57.9 cfs.



NORTH SIDEWALL
(Looking North)

LEGEND

- Structural Repair of Concrete (Depth Equal to or less than 5")
 - Concrete Structures
 - Cleaning and Painting Exposed Rebar
 - 3.0' Epoxy Crack Injection
- SF = Square Feet



SOUTH SIDEWALL
(Looking South)

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Stone Riprap, Class A5	Sq. Yd.	22
Filter Fabric	Sq. Yd.	22
Concrete Structures	Cu. Yd.	0.2
Epoxy Crack Injection	Foot	3
Box Culverts to be Cleaned	Foot	129.3
Structural Repair of Concrete (Depth Equal to or less than 5")	Sq. Ft.	5.5
Debris Removal	L. Sum	0.25
Cleaning and Painting Exposed Rebar	Sq. Ft.	4.5

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		CHECKED -	SPS	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CULVERT REPAIR DETAILS
STRUCTURE NO. 016-2158

SHEET S-2 OF S-2 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	0102N&T	COOK	426	334
CONTRACT NO. 62C25				
ILLINOIS FED. AID PROJECT				

1 REVISED SHEET 10/20/2021

Benchmark: "X" Cut on bolt of hydrant on the west side of East Ave. at 5740 S. East Ave. approximately 100' north of W. 58th Street. Elev. 646.59

Existing Structure: Existing Structure 016-2217 is a cast-in place concrete triple cell Box Culvert 12'x3'-6" carrying East Ave. drainage outlet to East Ave. drainage ditch. The structure is located north of W. 58th St. The length of the culvert is approximately 96'-8". The upstream end of the box culvert is closed with a junction structure.

Traffic will be maintained utilizing staged construction during repairs.

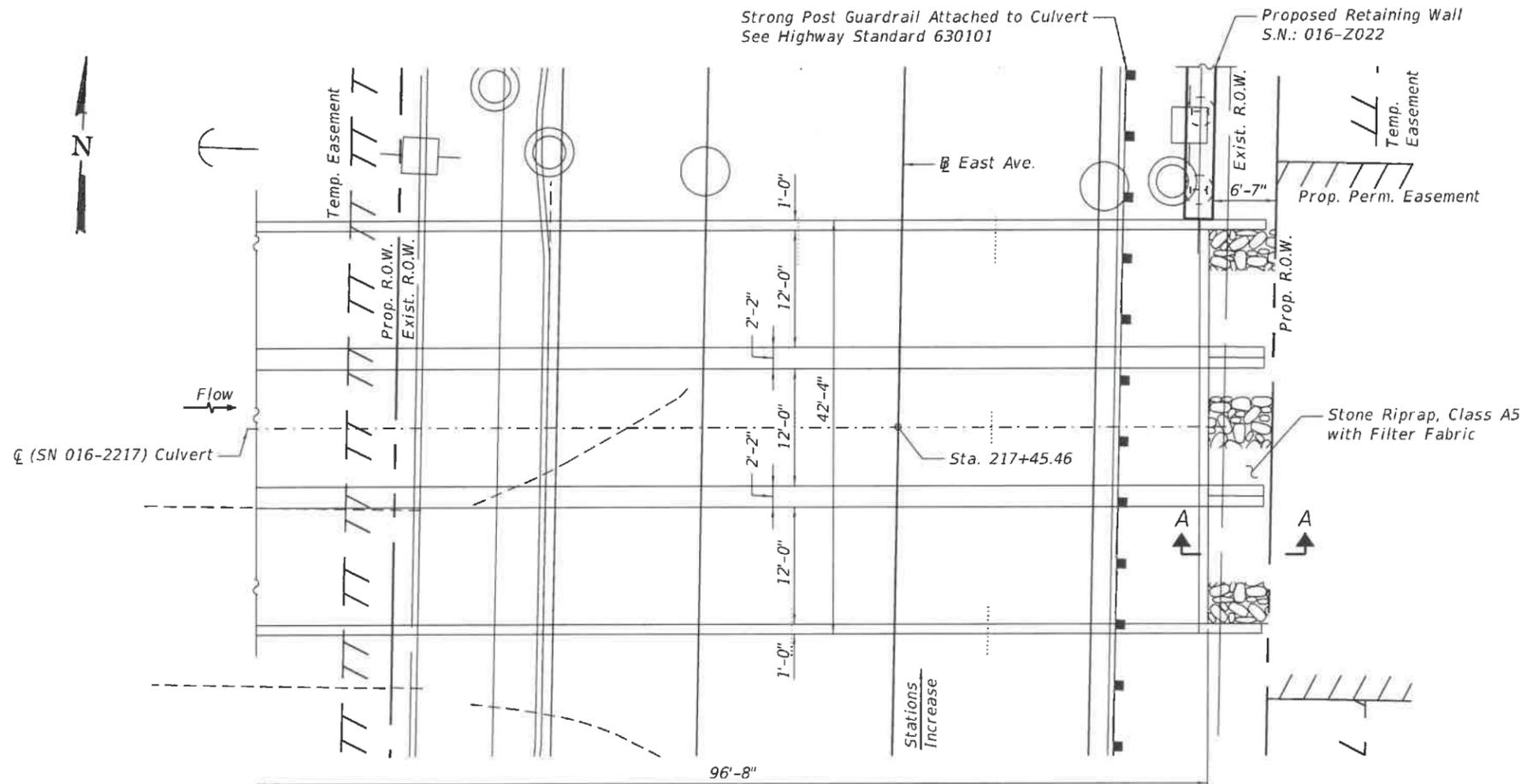
INDEX OF SHEETS

S-1. General Plan and Elevation

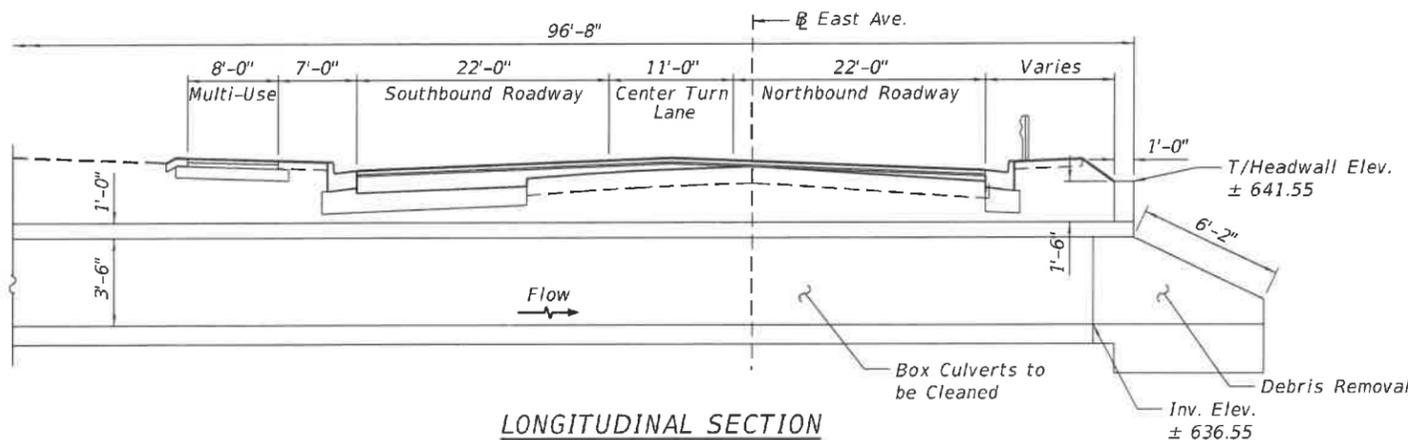
S-2. Culvert Repair Details

SCOPE OF WORK

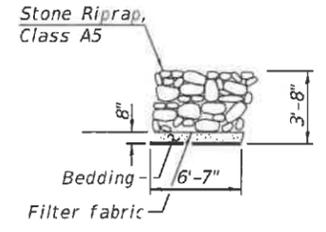
1. Perform Structural Repair of Concrete and Epoxy Crack Injection.
2. Remove Debris at downstream end of the Culvert.
3. Clean Existing Box Culvert.
4. Place Riprap at downstream end.



PLAN



LONGITUDINAL SECTION



SECTION A-A

Signed: *Maen Farhat*
 MAEN A. FARHAT, SE
 IL Lic. No.: 081-008545
 Expires: 11/30/2022



**GENERAL PLAN AND ELEVATION
 EAST AVE. (F.A.U. 2719)
 OVER NORTH CULVERT OUTLET TO
 EAST AVE. DRAINAGE DITCH
 SECTION NO. 0102N&T
 COOK COUNTY
 STATION 217+45.46
 STRUCTURE NO. 016-2217**

REVISION 10/20/2021

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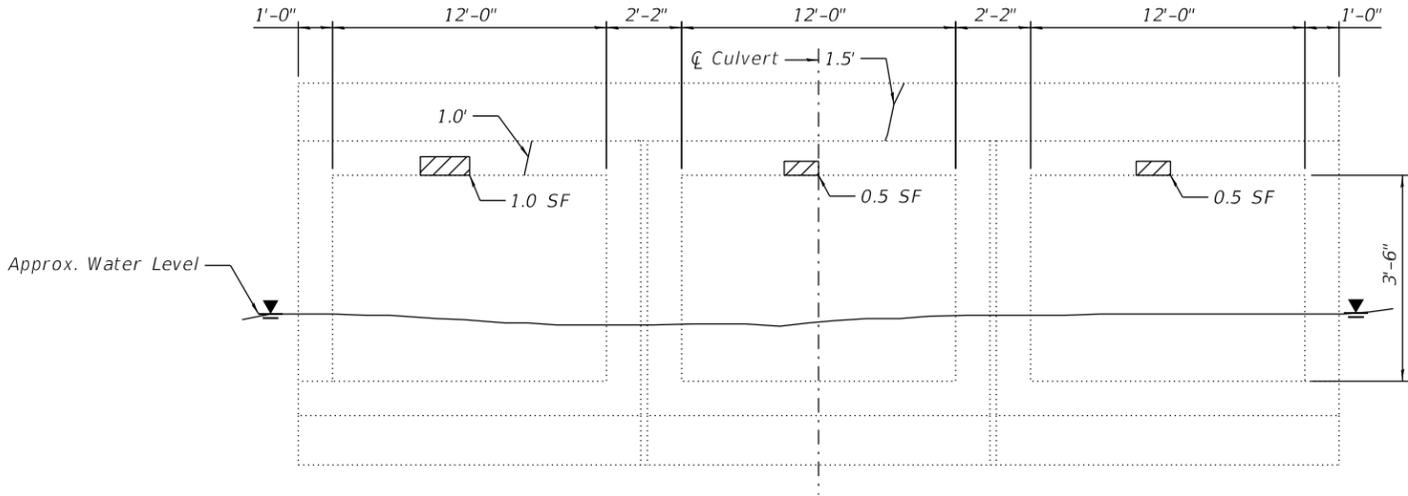
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SHEET S-1 OF S-2 SHEETS

F.A.U. RTE. 2719	SECTION 0102N&T	COUNTY COOK	TOTAL SHEETS 426	SHEET NO. 335
CONTRACT NO. 62C25				
ILLINOIS FED. AID PROJECT				

GENERAL NOTES

1. Culvert repairs to be performed during low flow.
2. Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
3. Areas shown for Concrete Repairs are estimated. The Engineer shall mark the areas in the field and show the actual areas on As-built plans.
4. The 2 year peak flow rate is 57.9 cfs .



END VIEW
(Looking West)

LEGEND

- Structural Repair of Concrete (Depth Equal to or less than 5")
- 1.0' Epoxy Crack Injection
- SF = Square Feet

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Stone Riprap, Class A5	Sq. Yd.	28
Filter Fabric	Sq. Yd.	28
Epoxy Crack Injection	Foot	3
Box Culverts to be Cleaned	Foot	296
Structural Repair of Concrete (Depth Equal to or less than 5")	Sq. Ft.	2.0
Debris Removal	L. Sum	0.25

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PLOT DATE =	10/18/2021	CHECKED -	SPS	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CULVERT REPAIR DETAILS
STRUCTURE NO. 016-2217

SHEET S-2 OF S-2 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	0102N&T	COOK	426	336
CONTRACT NO. 62C25				
ILLINOIS FED. AID PROJECT				

REVISED SHEET 10/20/2021