



# CITY OF WHEATON

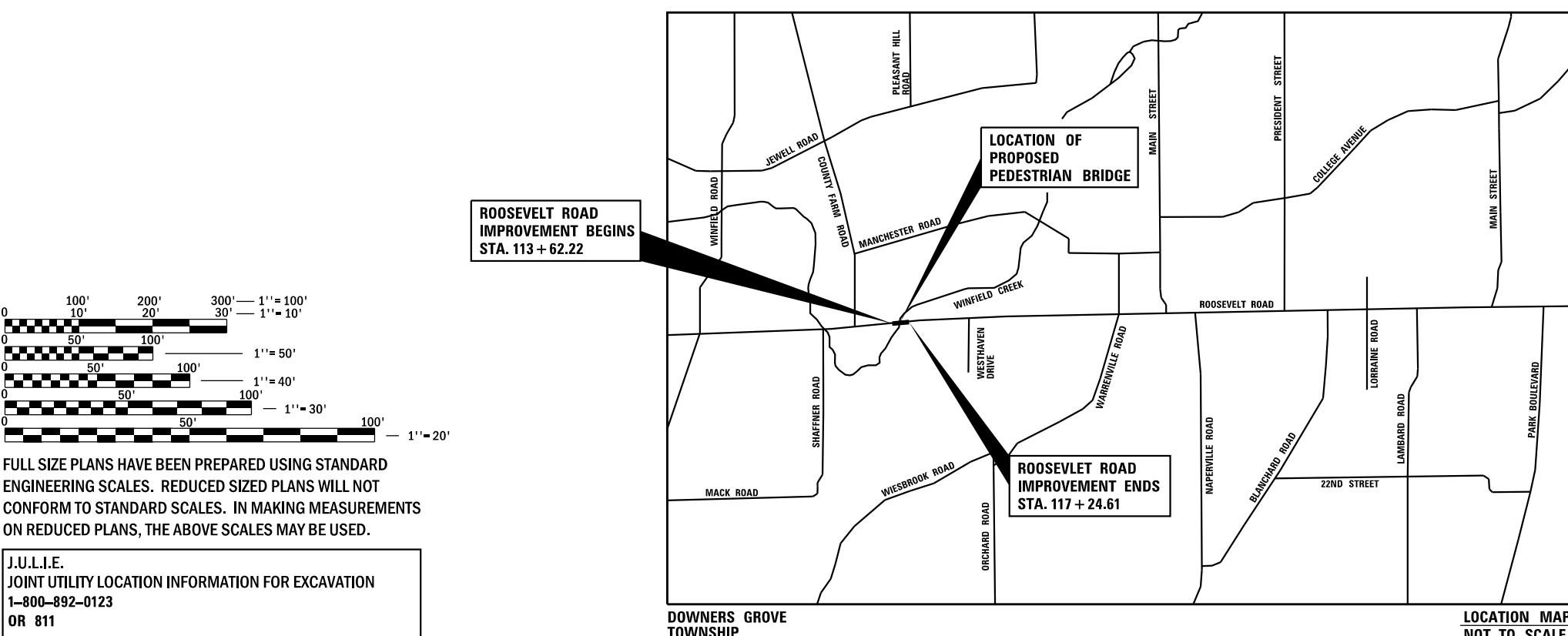
## DEPARTMENT OF ENGINEERING

# SIDEWALK AND PEDESTRIAN BRIDGE IMPROVEMENTS ROOSEVELT ROAD (IL ROUTE 38)

DUPAGE COUNTY, ILLINOIS

FOR INDEX OF SHEETS, SEE SHEET NO. 2

FOR LIST OF HIGHWAY STANDARDS, SEE SHEET NO. 2



V3 Companies  
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### CONTACT

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CITY OF WHEATON DEPARTMENT  
OF ENGINEERING  
(630) 260-2067

V3  
JASON D. HOLY  
# 062-059941  
*Jason Holy*  
DATE: 11-12-2024



EXPIRATION DATE: 11-30-2025

## GENERAL NOTES

- ALL EXISTING TOPOGRAPHY, UNDERGROUND UTILITIES, STRUCTURES AND ASSOCIATED FACILITIES SHOWN ON THESE DRAWINGS HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS. THEREFORE, THEIR LOCATIONS AND ELEVATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHER FACILITIES, THE EXISTENCE OF WHICH ARE NOT PRESENTLY KNOWN. THE EXACT LOCATIONS AND ELEVATIONS ARE TO BE VERIFIED BY THE CONTRACTOR.
- BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE", DUPAGE COUNTY AND THE CITY OF WHEATON FOR FIELD LOCATIONS OF BURIED UTILITIES 48 HOURS IN ADVANCE OF WORK.
- PRIOR TO NEW WORK, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FIELD CHECK ALL DIMENSIONS AND ELEVATIONS AND TO VERIFY THE LOCATION AND ELEVATION OF EXISTING UTILITY LINES AND STRUCTURES THAT MAY BE IMPACTED BY THE PROPOSED WORK PRIOR TO ORDERING MATERIAL OR BEGINNING CONSTRUCTION. ANY DISCREPANCIES FROM THE PLANS SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY.
- ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED BY THE UTILITY COMPANY AT THE CONTRACTOR'S EXPENSE.
- ALL APPLICABLE PROVISIONS OF THE CURRENT OCCUPATIONAL SAFETY AND HEALTH ACT ARE HEREIN INCORPORATED BY REFERENCE.
- EXCEPT WHERE MODIFIED BY THE CONTRACT DOCUMENTS, ALL WORK PROPOSED HEREON SHALL BE IN ACCORDANCE WITH THE FOLLOWING SPECIFICATIONS WHICH ARE HEREBY MADE A PART HEREOF:
  - "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION IN ILLINOIS," AS PREPARED BY IDOT, LATEST EDITION.
  - "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS AS PUBLISHED BY THE IEPA," LATEST EDITION.
  - ILLINOIS RECOMMENDED STANDARDS FOR SEWAGE WORKS," AS PUBLISHED BY THE IEPA. LATEST EDITION.
- THE ENGINEER AND OWNER ARE NOT RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, TIME OF PERFORMANCE, PROGRAMS OR FOR ANY SAFETY PRECAUTIONS USED BY THE CONTRACTOR. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR EXECUTION OF HIS/HER WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND SPECIFICATIONS.
- THE CONTRACTOR IS RESPONSIBLE FOR HAVING A SET OF "APPROVED" ENGINEERING PLANS WITH THE LATEST REVISION DATE ON THE JOB SITE PRIOR TO THE START OF CONSTRUCTION AND AT ALL TIMES DURING CONSTRUCTION.
- AREAS OUTSIDE THE R.O.W. LINE OR CONSTRUCTION LIMIT LINE IMPACTED BY OPERATIONS OF THE CONTRACTOR SHALL BE RETURNED TO THE STATE IT WAS FOUND PRIOR TO NEW CONSTRUCTION, EXCEPT WHERE NEW WORK IS SHOWN.
- REMOVED PAVEMENT, SIDEWALK, CURB AND GUTTER, ETC. SHALL BE DISPOSED OF BY THE CONTRACTOR AT HIS OWN EXPENSE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AN OFF-SITE DUMP SITE AT HIS OWN EXPENSE.
- NO HOLES ARE TO BE LEFT OPEN IN THE PAVEMENT OR PARKWAY OVER A HOLIDAY, WEEKEND OR AFTER 3:00 P.M. ON THE DAY PRECEDING A HOLIDAY OR A WEEKEND.
- SIDEWALKS TO REMAIN SHALL BE PROTECTED FROM DAMAGE AND IF DAMAGED, SHALL BE REPLACED PROMPTLY IN CONFORMANCE WITH THE MUNICIPALITY OR IDOT STANDARD SPECIFICATIONS IN MATERIALS AND WORKMANSHIP.
- ALL EXISTING PAVEMENT SIDEWALKS OR CONCRETE CURB AND GUTTER TO BE REMOVED SHALL BE SAWCUT ALONG LIMITS OF PROPOSED REMOVAL BEFORE COMMENCEMENT OF PAVEMENT REMOVAL. SAWCUT SHALL BE INCIDENTAL TO THE REMOVAL COSTS.
- PROPOSED ELEVATIONS INDICATE FINISHED CONDITIONS. FOR ROUGH GRADING ELEVATIONS ALLOW FOR THICKNESS OF PROPOSED PAVING (ROADS, WALKS, DRIVES, ETC.) OR TOPSOIL AS INDICATED ON DRAWINGS.
- CONTRACTOR SHALL MAINTAIN ACCESS TO ALL PROPERTIES AND SIDE ROADS TO REMAIN DURING CONSTRUCTION OPERATIONS.
- AN IDOT PREQUALIFIED PHASE III RESIDENT ENGINEER (RE), REGISTERED IN THE STATE OF ILLINOIS AS A PROFESSIONAL ENGINEER (PE), SHALL BE REQUIRED AT THE APPLICANT'S EXPENSE TO INSPECT ALL PROPOSED WORK FOR PLAN COMPLIANCE AND APPROPRIATE TRAFFIC CONTROL AND PROTECTION.

## GENERAL NOTES (CONTINUED)

- AN IDOT PREQUALIFIED SOILS CONSULTANT SHALL BE REQUIRED TO TEST THE SUBGRADE AND SUBBASE FOR STABILITY PRIOR TO BRIDGE INSTALLATION.
- THE CONTRACTOR SHALL USE ALL NECESSARY PRECAUTIONARY AND PROTECTIVE MEASURES REQUIRED TO MAINTAIN AND PROTECT EXISTING UTILITIES, SEWERS, MAINS AND APPURTENANCES THAT MUST BE KEPT IN OPERATION. IN PARTICULAR, THE CONTRACTOR SHALL TAKE ADEQUATE MEASURES TO PREVENT THE UNDERMINING OF UTILITIES, SEWERS AND MAINS WHICH WILL REMAIN IN SERVICE. THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER AND UTILITY COMPANY IF IT IS DETERMINED THAT TEMPORARY BRACING OR SUPPORT OF THE UTILITIES IS REQUIRED. THE PROTECTION AND/OR TEMPORARY BRACING OR SUPPORT OF UTILITIES WILL NOT BE PAID FOR SEPARATELY. NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

## DRAINAGE NOTES

- ALL FIELD TILE ENCOUNTERED DURING CONSTRUCTION OPERATIONS SHALL BE CONNECTED TO THE PROPOSED STORM SEWER OR EXTENDED TO OUTLET INTO A PROPOSED DRAINAGE WAY AS DETERMINED BY THE ENGINEER. IF THIS CANNOT BE ACCOMPLISHED, THEN IT SHALL BE REPAIRED WITH NEW PIPE OF SIMILAR SIZE AND MATERIAL TO THE ORIGINAL LINE AND PUT IN ACCEPTABLE OPERATIONAL CONDITION. A RECORD OF THE LOCATION OF ALL FIELD TILE FOR ON-SITE DRAIN PIPE ENCOUNTERED SHALL BE KEPT BY THE SUBCONTRACTOR AND SUBMITTED TO THE ENGINEER UPON COMPLETION OF THE PROJECT. ALL FIELD TILE REPAIRS MUST MEET THE ILLINOIS URBAN MANUAL SPEC 945. THE COST OF THIS WORK SHALL BE CONSIDERED AS INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE PROVIDED.
- WHEN AN EXISTING DRAINAGE ROUTE, EITHER A STORM SEWER OR WATERWAY, IS INTERRUPTED DUE TO THE IMPROVEMENTS, THE DRAINAGE ROUTE SHALL BE REESTABLISHED TO ORIGINAL CONDITIONS BY THE END OF THE SAME WORK DAY. POSITIVE DRAINAGE MUST BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.
- WHENEVER, DURING CONSTRUCTION OPERATIONS, LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF GUTTERS, DRAINAGE STRUCTURES, DITCHES ETC., SUCH THAT THE NATURAL FLOW LINE OF WATER IS OBSTRUCTED, THE LOOSE MATERIAL SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. AT THE CONCLUSION OF THE CONSTRUCTION OPERATION, ALL DRAINAGE STRUCTURES AND FLOW LINES SHALL BE FREE FROM DIRT AND DEBRIS. THIS WORK SHALL BE INCLUDED IN THE COST OF THE CONTRACT. THE CONTRACTOR'S FAILURE TO PROVIDE THE ABOVE WILL PRECLUDE ANY POSSIBLE ADDED COMPENSATION REQUESTED DUE TO DELAYS OR UNSUITABLE MATERIAL CREATED AS A RESULT THEREOF.
- ANY EXISTING DRAINAGE FACILITIES DISTURBED OR DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT THEIR EXPENSE. THIS WORK SHALL BE PERFORMED TO THE SATISFACTION OF THE ENGINEER.

## MAINTENANCE OF TRAFFIC NOTES

- TRAFFIC CONTROL AND PROTECTION SHALL BE PERFORMED IN ACCORDANCE WITH THE MAINTENANCE OF TRAFFIC NOTES AND PROTECTION SECTION 701 OF THE STANDARD SPECIFICATIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ADEQUATE SIGNS, TRAFFIC CONTROL DEVICES AND WARNING DEVICES TO INFORM AND PROTECT THE PUBLIC DURING ALL PHASES OF CONSTRUCTION. BARRICADES AND WARNING SIGNS SHALL BE PROVIDED IN ACCORDANCE WITH ARTICLE 107.14 OF THE IDOT STANDARD SPECIFICATIONS. ALL TRAFFIC CONTROL WORK SHALL BE DONE IN ACCORDANCE WITH IDOT "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES."
- ALL SIGNS SHALL BE IN ACCORDANCE WITH IDOT STANDARD SPECIFICATIONS, LATEST EDITION, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
- CONTRACTOR SHALL USE IDOT HIGHWAY STANDARD 701421-08 AND FOR LANE CLOSURES.
- THE CONTRACTOR CAN ONLY CLOSE A LANE BETWEEN THE HOURS OF 9:00 AM AND 3:30 PM.
- THE CONTRACTOR SHALL CONTACT THE IDOT TRAFFIC CONTROL SUPERVISOR AT 72 HOURS IN ADVANCE OF BEGINNING WORK.

## EROSION CONTROL NOTES

- A STAMPED AND SIGNED COPY OF THE APPROVED SOIL EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES AND BE PRESENTED WHEN REQUESTED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR EROSION AND SEDIMENTATION CONTROL AS SHOWN ON THESE DRAWINGS.
- THE CONTRACTOR WILL BE REQUIRED TO IMPLEMENT AND MAINTAIN EROSION CONTROL MEASURES IMMEDIATELY AFTER STRIPPING OF EXISTING VEGETATION.
- STOCKPILES OF SOIL AND OTHER BUILDING MATERIALS TO REMAIN IN PLACE MORE THAN SEVEN (7) DAYS SHALL BE FURNISHED WITH EROSION CONTROL AND SEDIMENT CONTROL MEASURES (I.E. PERIMETER SILT FENCE). STOCKPILES TO REMAIN IN PLACE FOR 14 DAYS OR MORE SHALL RECEIVE TEMPORARY SEEDING. TEMPORARY SEEDING WILL NOT BE PAID FOR SEPARATELY. NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS TO PREVENT POLLUTION OF STORM WATER AND SHALL FOLLOW IEPA & IDOT CONSTRUCTION MEMORANDUM NO. 95-60.
- THE CONTRACTOR WILL BE REQUIRED TO HAVE A DESIGNATED CONCRETE WASHOUT AREA DURING ALL CONCRETE POURS.
- ALL MATERIALS USED FOR TEMPORARY CONSTRUCTION ACTIVITIES WILL BE REMOVED TO UPLAND AREAS IMMEDIATELY FOLLOWING COMPLETION OF CONSTRUCTION ACTIVITY.
- ALL ADJACENT STREETS MUST BE KEPT CLEAR OF DEBRIS, INSPECTED DAILY AND CLEANED.

## INDEX OF SHEETS

1	COVER SHEET
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6	EXISTING CONDITIONS AND REMOVAL PLAN
7	PLAN AND PROFILE
8	PROPOSED GRADING PLAN
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14	EROSION CONTROL AND RESTORATION PLAN
15-17	CONSTRUCTION DETAILS

## IDOT HIGHWAY STANDARDS

OFF-RD OPERATIONS, MULTILANE, 15' (4.5 m) AWAY  
URBAN LANE CLOSURE, MULTILANE, 2W WITH BIDIRECTIONAL LEFT TURN LANE  
SIDEWALK, CORNER OR CROSSWALK CLOSURE  
TRAFFIC CONTROL DEVICES

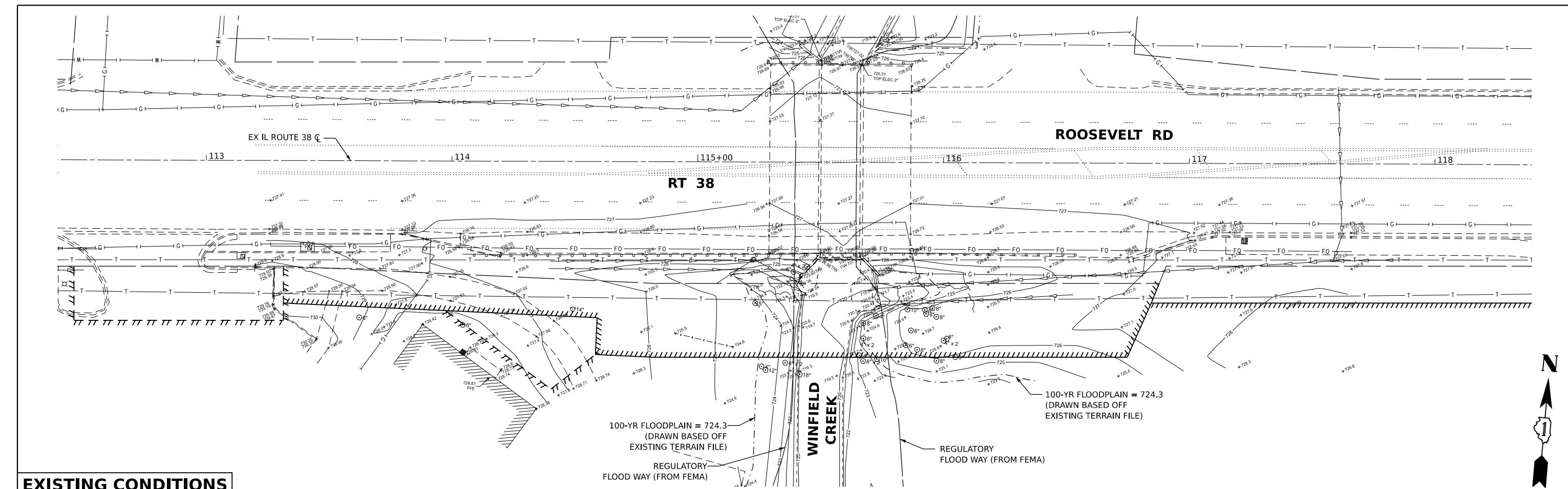
## CONSTRUCTION DETAILS

SILT FENCE PLAN  
PORTABLE CONCRETE WASHOUT CONTAINER

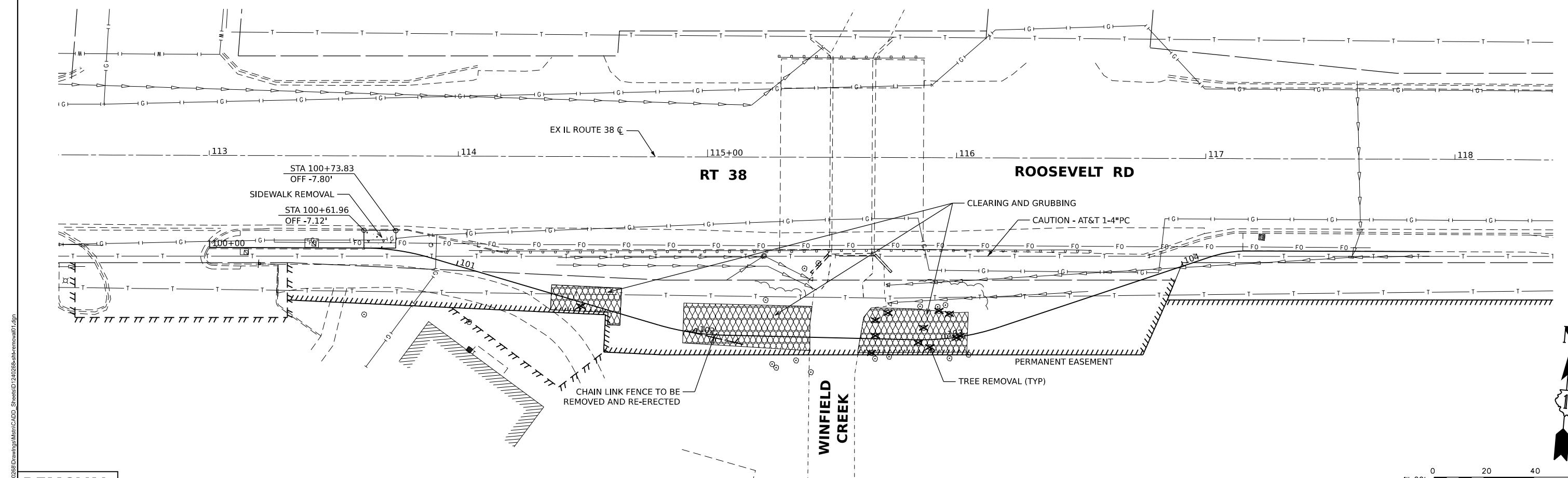
SPECIAL PROVISION	PAY ITEM NO.	ITEM	UNIT	TOTAL QUANTITY
	20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	92
	20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	39
	20700220	POROUS GRANULAR EMBANKMENT	CU YD	20
	21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	349
	25000210	SEEDING, CLASS 2A	ACRE	0.1
	25000314	SEEDING, CLASS 4B	ACRE	0.1
	25000400	NITROGEN FERTILIZER NUTRIENT	POUND	12
	25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	12
	25100630	EROSION CONTROL BLANKET	SQ YD	349
	28000400	PERIMETER EROSION BARRIER	FOOT	462
	35101600	AGGREGATE BASE COURSE, TYPE B 4"	SQ YD	212
	42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	1,912
	44000600	SIDEWALK REMOVAL	SQ FT	91
	50200100	STRUCTURE EXCAVATION	CU YD	32
	50300225	CONCRETE STRUCTURES	CU YD	12
	50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	1,330
	51200957	FURNISHING METAL SHELL PILES 12" X 0.250"	FOOT	102
	51202305	DRIVING PILES	FOOT	102
	51203200	TEST PILE METAL SHELLS	EACH	1

SPECIAL PROVISION	PAY ITEM NO.	ITEM	UNIT	TOTAL QUANTITY
	59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	13.2
	60146304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	30
	60146305	PIPE UNDERDRAINS FOR STRUCTURES (SPECIAL) 4"	FOOT	45
	67100100	MOBILIZATION	L SUM	1
	70102632	TRAFFIC CONTROL AND PROTECTION, STANDARD 701602	L SUM	1
	70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1
*	A2006520	TREE, QUERCUS BICOLOR (SWAMP WHITE OAK), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	2
*	C2001846	SHRUB, CORNUS SERICEA ISANTI (ISANTI REDTWIG DOGWOOD), 3' HEIGHT, BALLED AND BURLAPPED	EACH	6
*	C2C048G5	SHRUB, PHYSOCARPUS OPULIFOLIUS (COMMON NINEBARK), CONTAINER GROWN, 5-GALLON	EACH	5
*	D2003972	EVERGREEN, TSUGA CANADENSIS (CANADIAN HEMLOCK), 6' HEIGHT, BALLED AND BURLAPPED	EACH	1
*	K1005482	SHREDDED BARK MULCH 4"	SQ YD	15
*	X0322508	PEDESTRIAN TRUSS SUPERSTRUCTURE	SQ FT	598.3
*	X2010512	CLEARING AND GRUBBING	SQ YD	211
*	X2130010	EXPLORATION TRENCH (SPECIAL)	FOOT	50
*	X6640304	CHAIN LINK FENCE TO BE REMOVED AND RE-ERECTED	FOOT	24
*	Z0013798	CONSTRUCTION LAYOUT	L SUM	1
*		VEGETATION MANAGEMENT, ECOLOGICAL MONITORING AND REPORTING	YEAR	3





### EXISTING CONDITIONS



### REMOVAL

V3 Companies  
7325 Janes Avenue  
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630.724.9200 phone  
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www.v3co.com

USER NAME = cwasowicz  
DESIGNED - LRY  
DRAWN - LRY  
CHECKED - JDH  
PLOT DATE = 12/20/2024  
DATE - 12/20/2024  
REVISED -  
REVISED -  
REVISED -  
REVISED -

### ROOSEVELT SIDEWALK IMPROVEMENTS

WHEATON

ILLINOIS

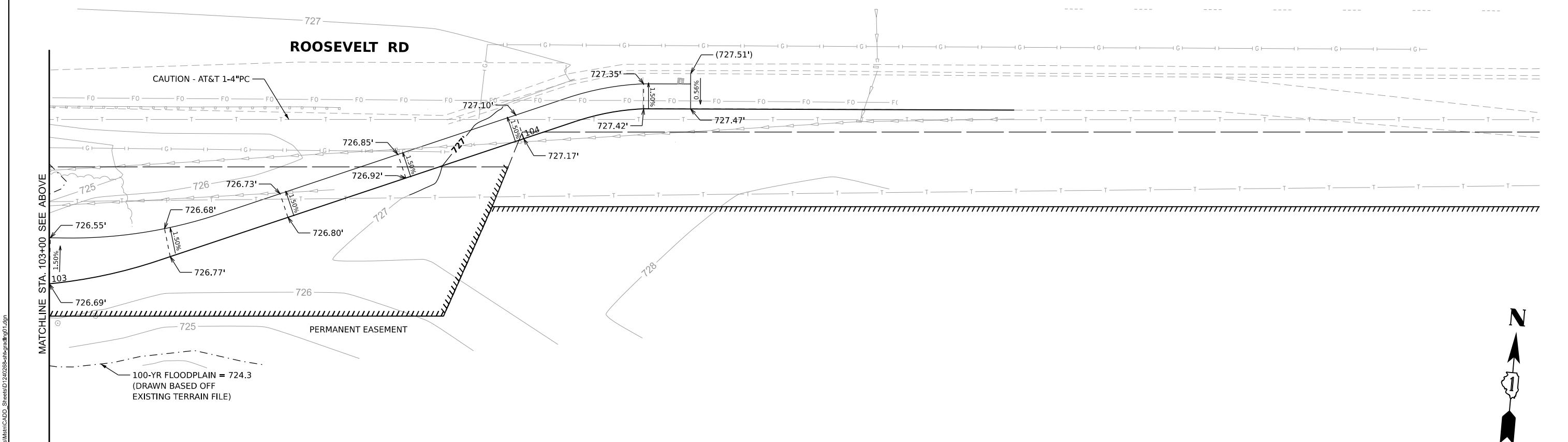
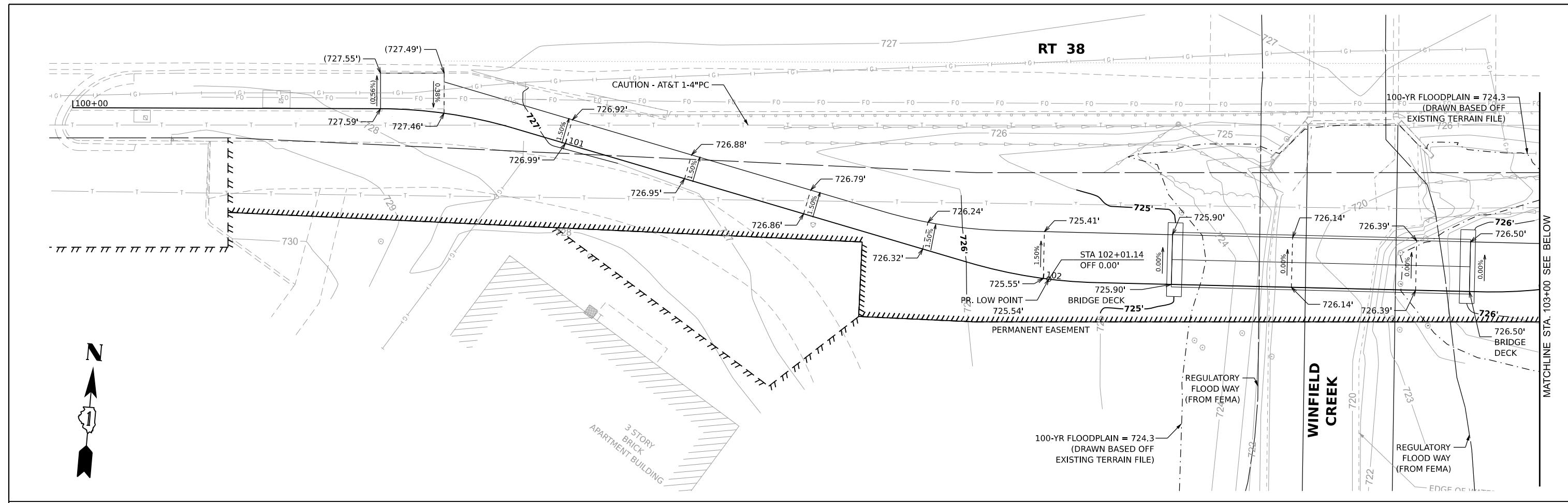
### EXISTING CONDITIONS AND REMOVAL PLAN

COUNTY  
DUPAGE  
TOTAL SHEETS  
17  
SHEET NO.  
6  
PROJECT NO. 240268

SCALE  
1"=20'  
0 20 40 60  
FEET

SCALE: 1"=20" SHEET 1 OF 1 SHEETS STA. TO STA.







## *GENERAL NOTES*

*No field welding is permitted except as specified in contract documents.*

Reinforcement bars designated (E) shall be epoxy coated.

Bridge installation shall be in accordance with the bridge manufacturer's shop drawings, instructions, and/or recommendations. The Contractor shall provide all materials, labor, and equipment to completely install the prefabricated bridge and make the proper connections to the abutments. The Contractor shall coordinate all construction, delivery, and installation of the bridge with the manufacturer.

construction, delivery, and installation of the bridge with the manufacturer.

Bridge manufacturer shall provide all shop and fabrication drawings. Final drawings shall be prepared by and sealed by an Illinois Licensed Structural Engineer.

*Exact dimensions of the bridge components to be provided by bridge manufacturer.*

All miscellaneous items and incidentals are not specified on these drawings. Contractor is responsible for obtaining and installing all materials, miscellaneous items and incidentals for completion of the bridge to a functional and acceptable state. Miscellaneous items and incidentals will not be measured for payment.

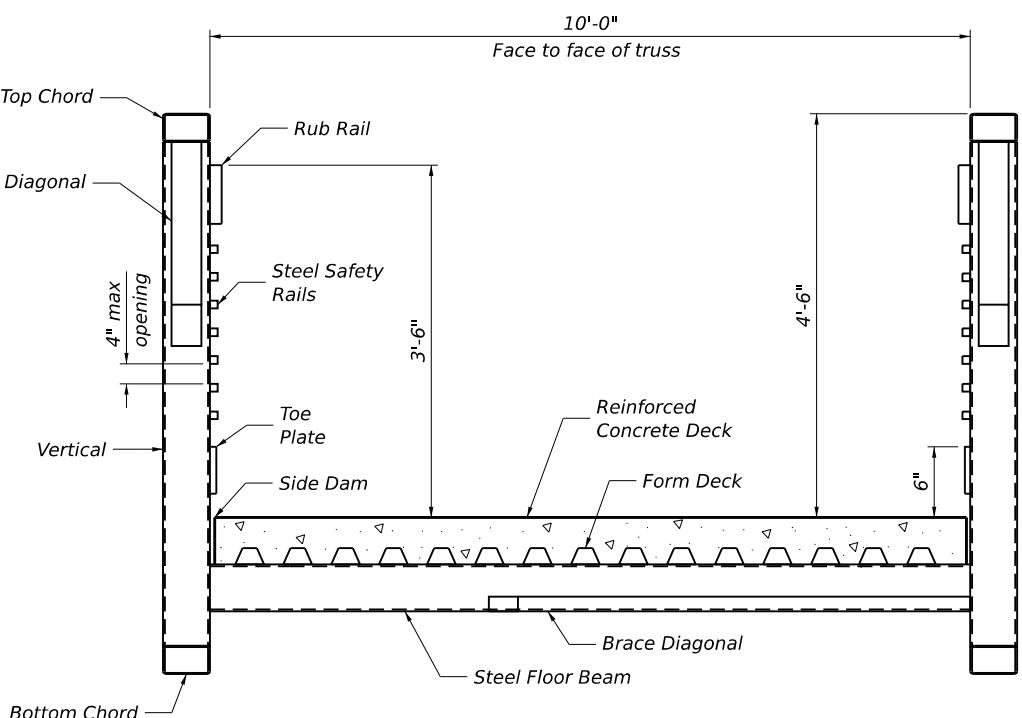
The abutments as shown on the drawings will be used for the Contech Engineered Solutions Pedestrian Truss Superstructure. The Contractor will be responsible for modifications to plans and engineering for alternate truss superstructure supplier. The Contractor shall retain services of a State of Illinois Licensed Structural Engineer for the design of alterations or modifications of the abutments as required to accommodate an alternate truss superstructure supplier.

*Truss manufacturer shall camber the truss as necessary to provide allowance for dead load deflection.*

The concrete deck is to be designed and detailed by a Bridge Manufacturer's Illinois Licensed Structural Engineer. Truss manufacturer shall provide the reinforced concrete deck design. Concrete deck to utilize stay-in-place galvanized forms. Reinforcement shall be epoxy coated. Contractor shall place the concrete deck after truss is set. Cost included with Pedestrian Truss Superstructure.

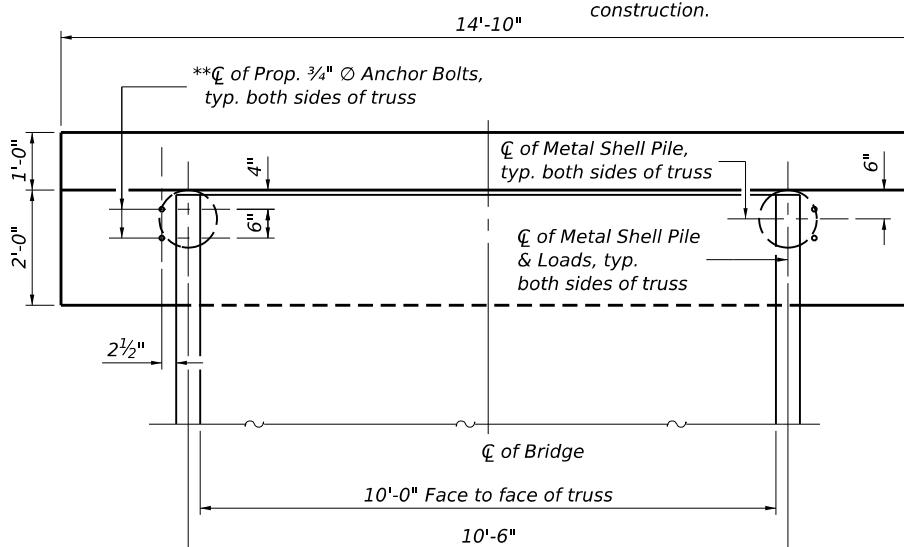
*It shall be the Contractor's responsibility to verify all dimensions and conditions existing in the field prior to construction and ordering of materials.*

The Contractor shall field verify locations of existing underground utilities. The Contractor shall take precautions to protect existing utilities during construction of the bridge. Any damage to the existing utilities shall be the responsibility of the Contractor.

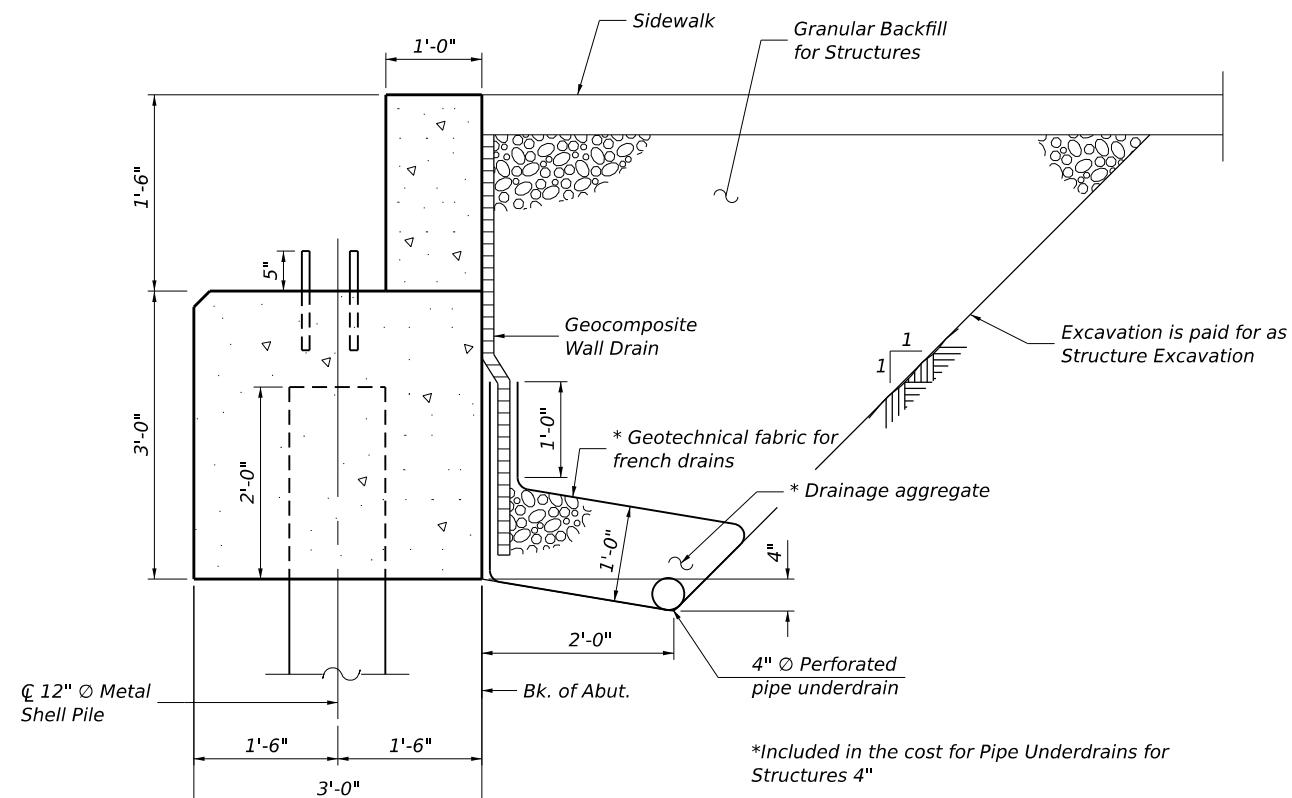


SECTION THRU  
PEDESTRIAN TRUSS SUPERSTRUCTURE

**\*\*To be verified by Truss Manufacturer. Contractor must coordinate with Truss Manufacturer to ensure proper placement of cast-in-place anchors. Contractor shall place top cap reinforcement to miss anchor bolt locations. If the contractor elects to use post installed anchors in lieu of cast-in-place anchors, they must coordinate the plate dimensions, bolt spacing, and bolt quantity with the Bridge manufacturer prior to construction.**



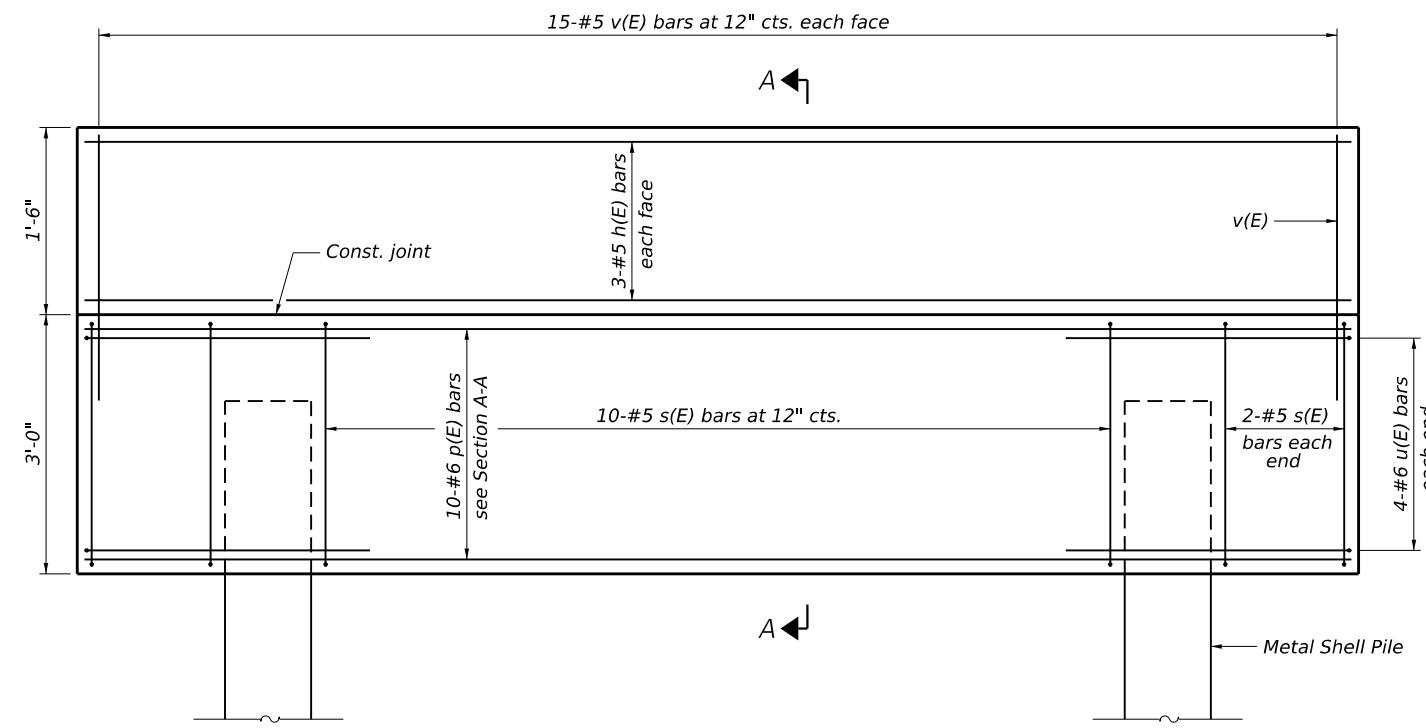
### ABUTMENT ANCHOR BOLT DETAIL



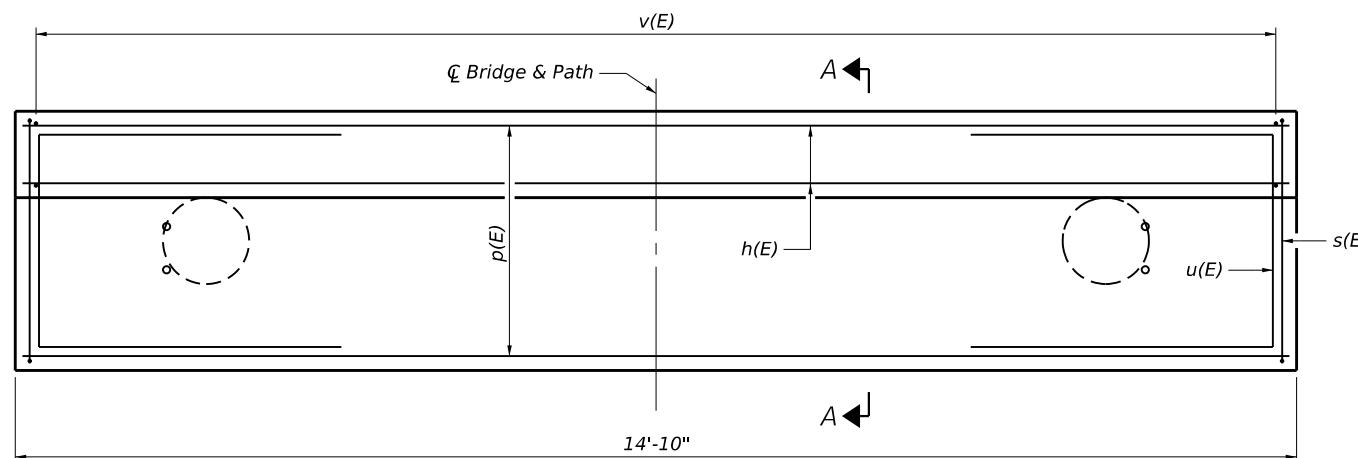
SECTION THRU ABUTMENT

**Note:**

**Note:** All Drainage System components shall extend to 2'-0" from the end of each abutment except an outlet pipe shall extend until intersecting with the side slopes.



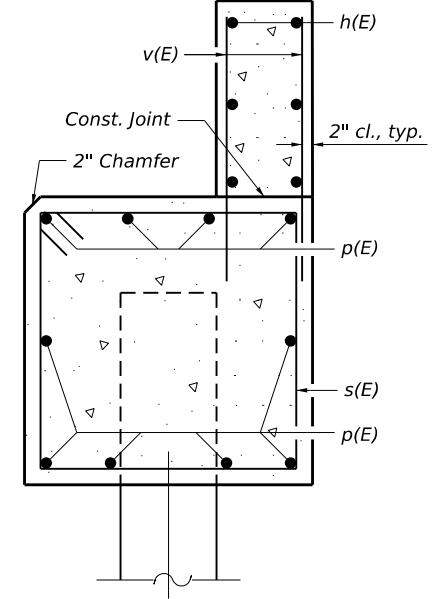
ELEVATION



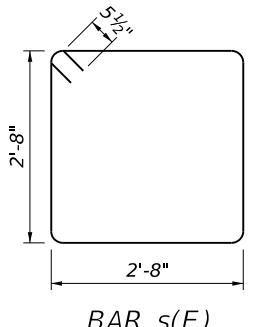
PLAN

## PILE DATA: ABUTMENT

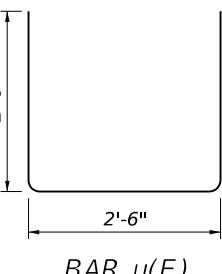
Type: Metal Shell - 12" dia. x 0.250" walls  
 Nominal Required Bearing: 150k  
 Allowable Resistance Available: 50k  
 Est. Length: 32'  
 No. Production Piles: 3  
 No. Test Piles: 1



SECTION A-A



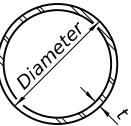
BAR s(E)



BAR u(E)

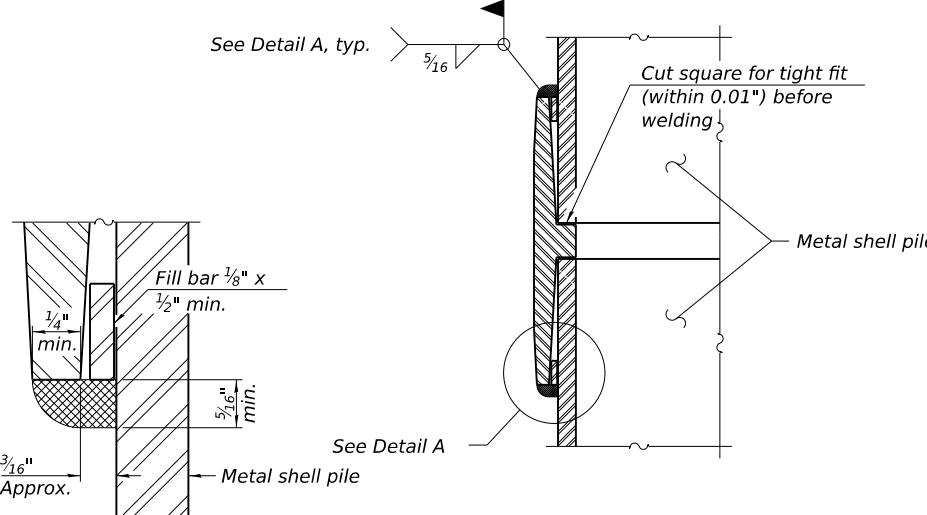
TWO ABUTMENTS  
BILL OF MATERIALS

Bar	No.	Size	Length	Shape
h(E)	12	#5	14'-6"	—
v(E)	60	#5	3'-0"	—
p(E)	20	#6	14'-6"	—
s(E)	28	#5	11'-7"	□
u(E)	16	#6	7'-6"	□
Reinforcement Bars, Epoxy Coated				
Concrete Structures				
Geocomposite Wall Drain				
Furnishing Metal Shell Piles, 12" x 0.250"				
Driving Piles				
Test Pile, Metal Shells				
Pipe Underdrains for Structures				
Pipe Underdrains for Structures (Special)				
Structure Excavation				
Porous Granular Embankment				
Pound				
Cu Yd				
Sq Yd				
Foot				
Foot				
Each				
Foot				
30				
Foot				
45				
Cu Yd				
20.0				

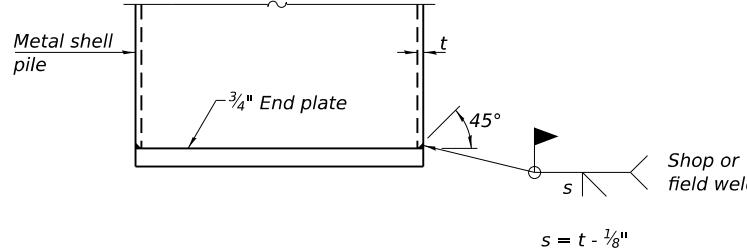


### METAL SHELL PILE TABLE

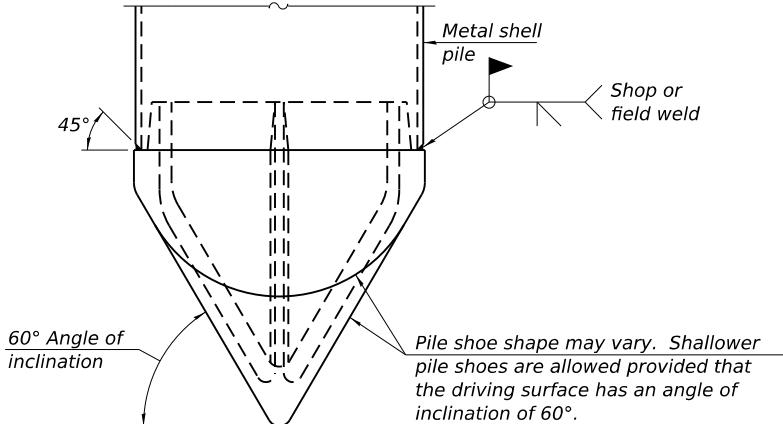
Designation and outside diameter	Wall thickness <i>t</i>	Weight per foot (Lbs./ft.)	Inside volume (yd. <sup>3</sup> /ft.)
PP12	0.250"	31.40	0.0267
PP14	0.250"	36.75	0.0368
PP14	0.312"	45.65	0.0361
PP16	0.312"	52.32	0.0478
PP16	0.375"	62.64	0.0470



### DETAIL A



### END PLATE ATTACHMENT



### PILE SHOE ATTACHMENT

(When called for on the plans, the Contractor shall furnish metal shell pile shoes consisting of a single piece conical pile point as shown. The pile shoes shall be cast in one piece steel according to either ASTM A 148 Grade 80-50 or AASHTO M 103 Grade 65-35 and shall provide full bearing over the full circumference of the metal shell pile. The pile shoe shall have tapered leads to assure proper alignment and fitting and shall be secured to the pile with a circumferential weld).



V3 Companies

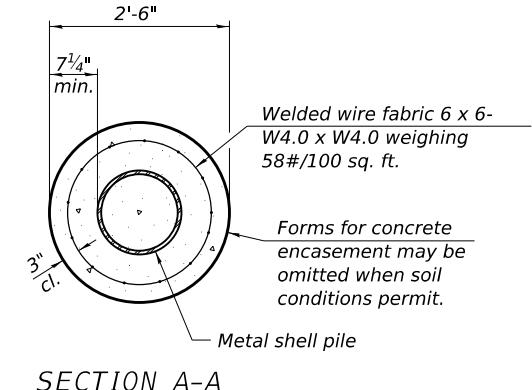
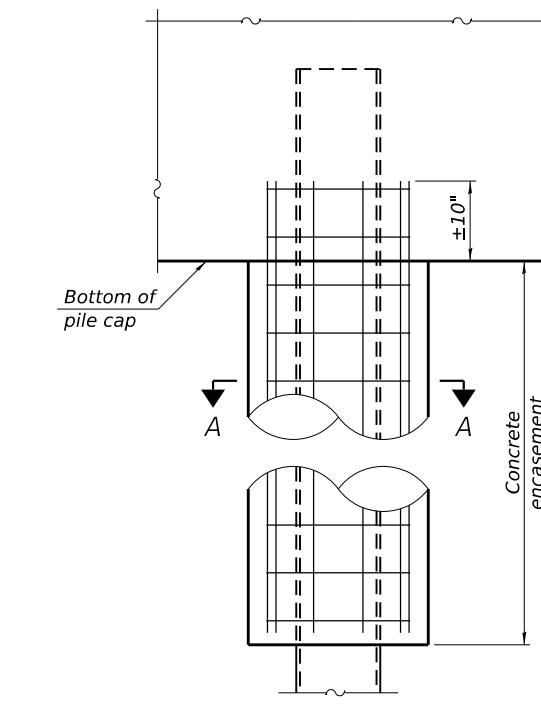
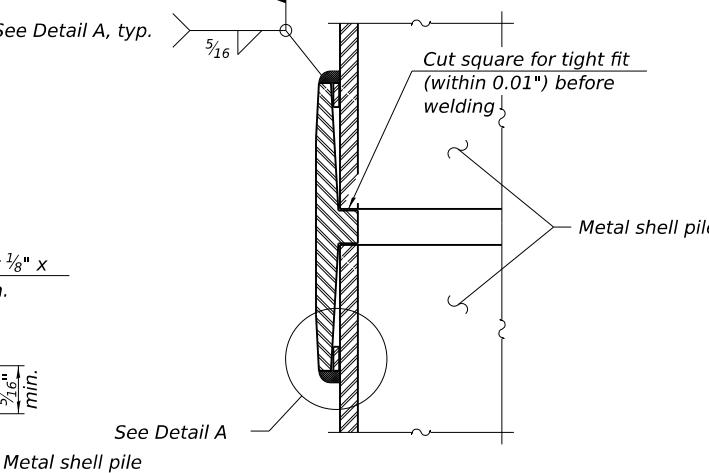
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### SECTION A-A

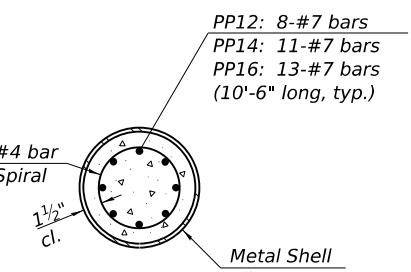
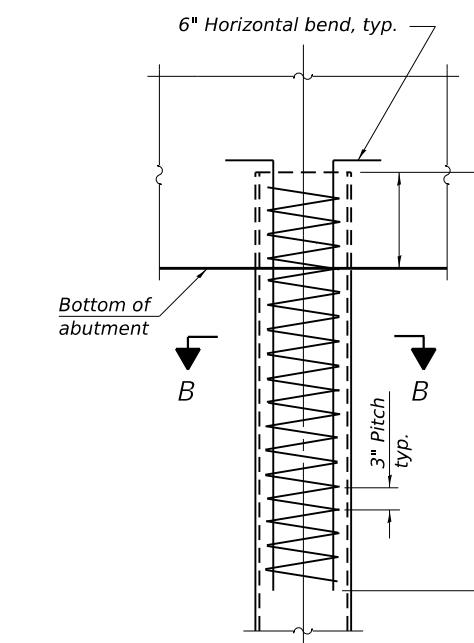
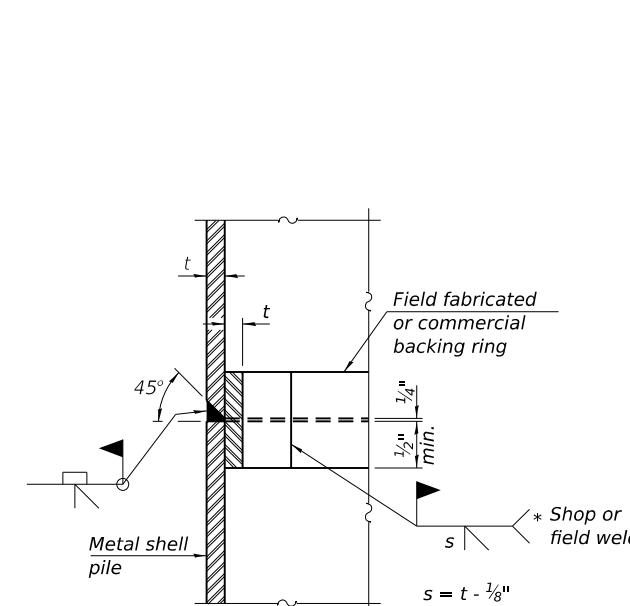
### WELDED COMMERCIAL SPLICE

#### Notes:

The 1/8" x 1/2" min. fill bar may be constructed of 2 bars with a 1/8" max. gap between them. Pile segments shall be driven to solid contact with splicer before welding.

### INDIVIDUAL PILE CONCRETE ENCASEMENT

(When specified)



### SECTION B-B

### COMPLETE PENETRATION WELD SPLICE

\* Field fabricated backing ring may be made from pile shell by removing segment to allow reducing circumference and vertically rejoin with partial joint penetration weld.

#### Note:

The metal shell piles shall be according to Article 1006.05 of the Standard Specifications.

**REINFORCEMENT AT ABUTMENTS**  
(Omit when concrete encasement is specified)

### ROOSEVELT SIDEWALK IMPROVEMENTS

WHEATON

ILLINOIS

### METAL SHELL PILE DETAILS

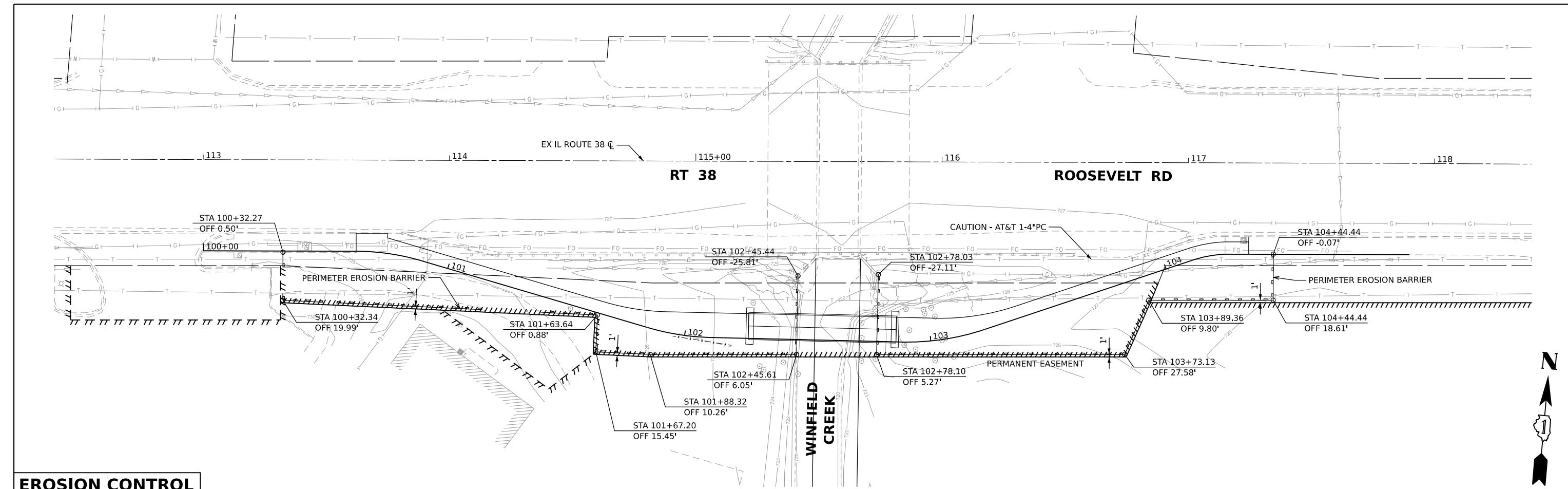
SCALE: SHEET 4 OF 5 SHEETS STA. TO STA.

COUNTY	TOTAL SHEETS	SHEET NO.
DUPAGE	17	12
PROJECT NO. 240268		

BOREHOLE LOG							Number B-1A	
Sample # /RUN #	Sampling Method	Qp (tsf)	Sample Recovery (in)	Moisture Content (%)	Driving Resistance Blows/Ft (N)	Client	V3 Companies	Plate 3
23856 W. Andrew Rd., Unit 103, Plainfield, IL						Location	Pedestrian Bridge at County Farm Rd. & Roosevelt Rd., Wheaton, IL	
						Job Number	2024-1301-04G	
						Drill Rig Type	Geoprobe 7822	
						Sampler Type	Split Spoon (SS)	
						Boring Location	See Plate 2 (1037553.55 E, 1890819.05N)	
						Boring Elevation (ft)	720	Date: 6/3/2024
						Depth (ft)	Sample Depth	Soil Description
								Elevation (ft)
					0.5		TS	6" of Topsoil
					1.0			719.50
					1.5			719.00
1	SS	4.50	12	13.2	10	2.0	CL	Dark Brown Silty Clay (CL)
						2.5		Trace Sand and Gravel, Hard
						3.0		Unit Weight 110.8 pcf
						3.5		718.50
						4.0		718.00
2	SS	3.25	6	18.6	3	4.5	CL	Brown Silty Clay (CL)
						5.0		Trace Sand and Gravel, Very Stiff
						5.5		Unit Weight 113.2 pcf
						6.0		717.50
						6.5		717.00
3	SS	4.50	18	12.8	15	7.0	CL	Hard
						7.5		Unit Weight 123.5 pcf
						8.0		713.50
						8.5		713.00
						9.0		712.50
4	SS	4.50	18	14.7	13	9.5	CL	Brownish Gray Silty Clay (CL)
						10.0		Trace Sand and Gravel, Hard
						10.5		Unit Weight 120.7 pcf
						11.0		711.50
						11.5		711.00
5	SS	4.50	8	15.9	12	12.0	CL	Gray Silty Clay (CL)
						12.5		Trace Sand and Gravel Sand, Hard
						13.0		Unit Weight 121.3 pcf
						13.5		708.50
						14.0		708.00
6	SS	2.00	10	17.2	13	14.5		707.50
						15.0		Very Stiff
						15.5		707.00
						16.0		706.50
						16.5		706.00
7	SS	NA	1	NA	50/1"	17.0	GW	Gray Gravel (GW)
						17.5		trace Sand , Extreamly Dense
						18.0		705.50
						18.5		705.00
						19.0		704.50
8	SS	2.50	3	14.7	19	19.5	CL	Gray Silty Clay ( CL)
						20.0		With Gravel, Very Stiff
						20.5		Low Recovery
						21.0		704.00
						21.5		703.50
9	SS	2.75	18	16.7	11	22.0		703.00
						22.5		Trace Gravel
						23.0		699.50
						23.5		699.00
						24.0		698.50
10	SS	2.50	18	14.2	14	24.5	CL	698.00
						25.0		Unit Weight 125.7 pcf
						25.5		697.50
						26.0		697.00
						26.5		696.50
11	SS	1.50	16	16.3	10	27.0		696.00
						27.5		Stiff
						28.0		695.50
						28.5		695.00
						29.0		694.50
12	SS	2.00	16	16.2	12	29.5	SC	694.00
						30.0		Grav Sandy Clay (SC)
								Trace Gravel, Very Stiff, Wet
								Unit Weight 120.9
								WL-AD
								Broing Continued

Note: Soil group symbol and group name are determined based on visual classification, plasticity index and liquid limit wherever material was available using ASTM D2488 & D4318

							BOREHOLE LOG			Number B-1B								
							Client				V3 Companies			Plate 4				
23856 W. Andrew Rd., Unit 103, Plainfield, IL							Location			Pedestrian Bridge at County Farm Rd. & Roosevelt Rd., Wheaton, IL								
							Job Number			2024-1301-04G								
							Drill Rig Type			Geoprobe 7822								
							Sampler Type			Split Spoon (SS)								
							Boring Location			See Plate 2 (1037553.55 E, 1890819.05N)								
							Boring Elevation (ft)			720	Date: 6/3/2024							
Sample # / RUN #	Sampling Method	Qp (tsf)	Sample Recovery (in)	Moisture Content (%)	Driving Resistance Blows/ft (N)	Depth (ft)	Sample Depth	Graphic	Soil Description		Elevation (ft)							
									30.5	31.0		31.5	32.0	32.5	33.0	33.5	34.0	34.5
									SC	Gray Silty Clay (CL)	689.50							
										Trace Sand and Gravel, Very Stiff	689.00							
										Unit Weight 113.5 pcf	688.50							
13	SS	2.25	18	19.5	13	32.0			CL	Unit Weight 122.3 pcf	688.00							
						32.5				Hard	687.50							
						33.0					687.00							
						33.5					686.50							
						34.0					686.00							
2	14	4.00	18	19.9	11	34.5			SP-GM	Brown Sandy Gravel (SP-GM)	685.50							
						35.0				Dense, Wet	685.00							
						35.5					684.50							
						36.0					684.00							
						36.5					683.50							
15	SS	NA	18	NA	41	37.0			GM	Grayish Brown Sandy Gravel (SP-GM)	683.00							
						37.5				Trace Clay, Medium Dense	682.50							
						38.0					682.00							
						38.5					681.50							
						39.0					681.00							
16	SS	N/A	18	N/A	17	39.5					680.50							
						40.0					680.00							
End of Boring at 40'																		
Water Level While Drilling : 28.5 Feet																		
Water Level After Drilling : 19.0 Feet																		
Cave In Depth : 35 Feet																		
Note: Soil group symbol and group name are determined based on visual classification, plasticity index and liquid limit wherever material was available using ASTM D2488 & D4318																		



**RESTORATION**



V3 Companies  
7325 Janes Avenue  
Woodridge, IL 60517  
630.724.9200 phone  
630.724.9202 fax  
www.v3co.com

USER NAME = cwasowicz	DESIGNED - LRY	REVISED -	REVISED -
DRAWN - LRY	REVISED -	REVISED -	REVISED -
CHECKED - JDH	REVISED -	REVISED -	REVISED -
PLOT DATE = 12/20/2024	DATE - 12/20/2024	REVISED -	REVISED -

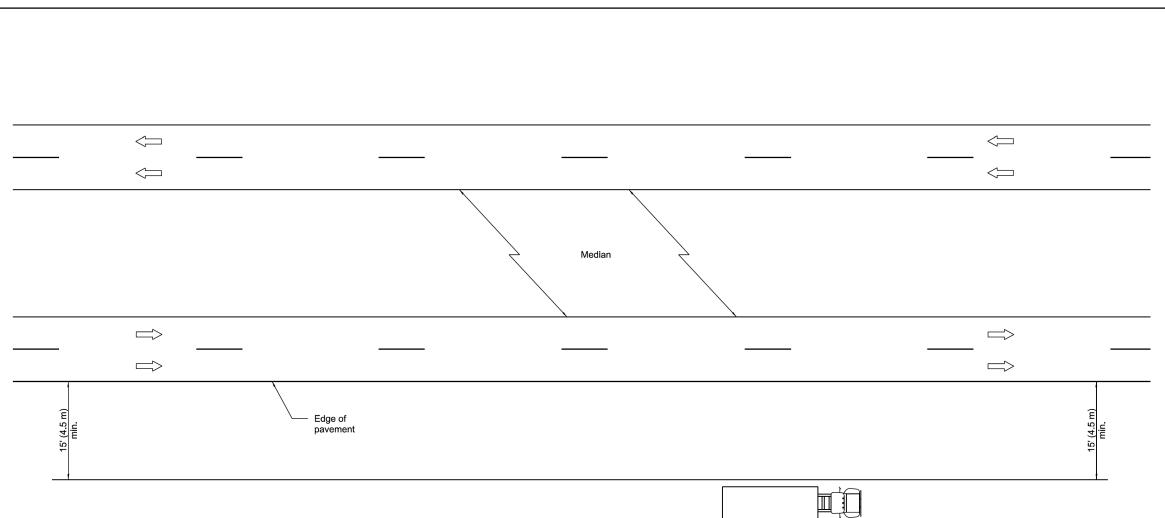
**ROOSEVELT SIDEWALK IMPROVEMENTS**

WHEATON

**EROSION CONTROL AND RESTORATION PLAN**

ILLINOIS SCALE: 1=20" SHEET 1 OF 1 SHEETS STA. TO STA. PROJECT NO. 240268

COUNTY	TOTAL SHEETS	sheet no.
DUPAGE	17	14



#### TYPICAL APPLICATIONS

Landscaping work  
Utility work  
Fencing contracts



DATE	REVISIONS
1-1-05	Switched units to English (metric).
	Revised title.
1-1-97	Renum. Standard 2313-6.
<b>OFF-RD OPERATIONS, MULTILANE, MORE THAN 15' (4.5 m) AWAY</b>	
<b>STANDARD 701106-02</b>	

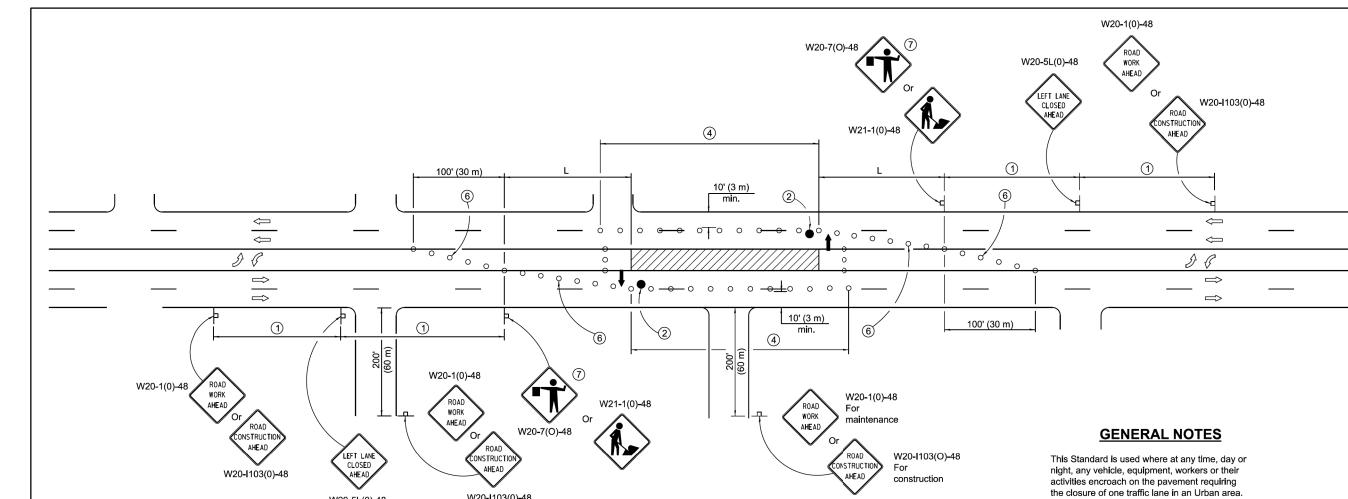
#### GENERAL NOTES

This Standard is used where at all times all vehicles, equipment, workers or their activities are more than 15' (4.5 m) from the edge of pavement.

When the work operation requires that two or more work zones cross the 15' (4.5 m) clear zone within one hour, traffic control shall be according to Standard 701101.

This Standard also applies to work performed in the median more than 15' (4.5 m) from either pavement.

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



#### GENERAL NOTES

This Standard is used where at any time, day or night, any vehicle, equipment, workers or their activities encroach on the pavement requiring the closure of one traffic lane in an Urban area.

If the work operation is performed between 9:00 a.m. and 3:00 p.m. and does not exceed 15 min. Traffic protection shall be as shown for Standard 701426.

Calculate L as follows:

**SPEED LIMIT** **FORMULAS**

40 mph (70 km/h) English  $L = \frac{WS^2}{60}$  (Metric)  $L = \frac{WS^2}{150}$

or less: 45 mph (80 km/h) or greater:  $L = (W)(S)$   $L = 0.65(W)(S)$

W = Width of offset in feet (meters).

S = Normal posted speed mph (km/h).

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

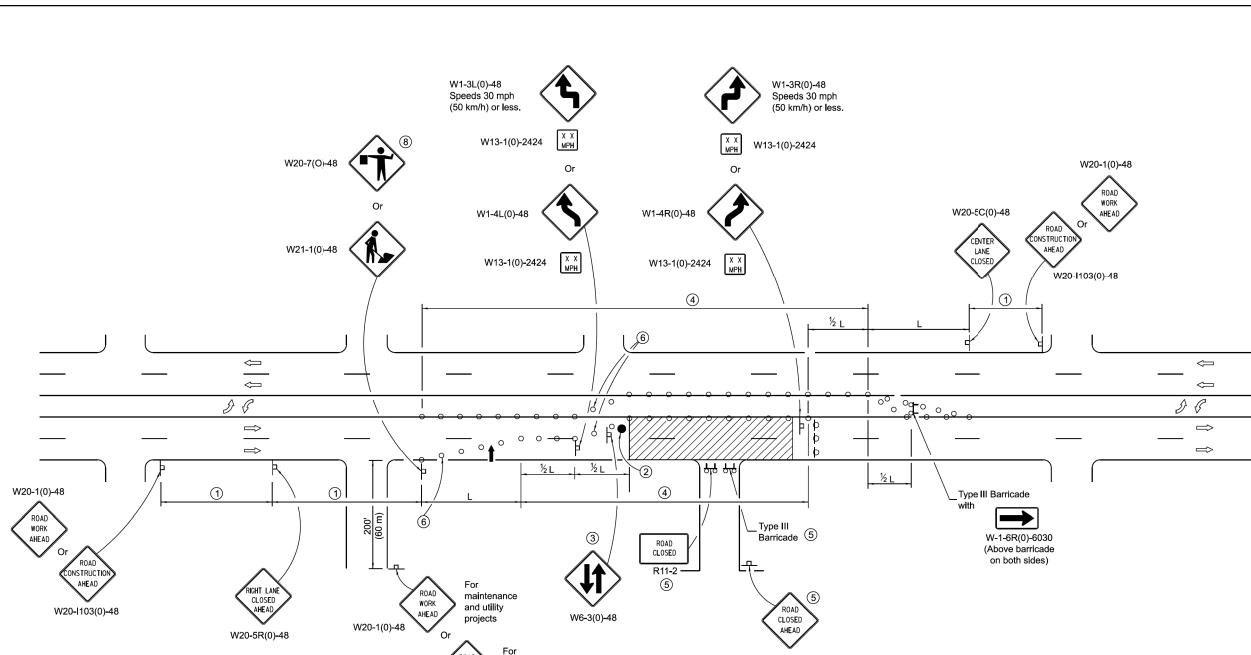
SIGN SPACING	
Posted Speed	Sign Spacing
55	500' (150 m)
50-45	350' (105 m)
<45	200' (60 m)

#### SYMBOLS

- ↑ Arrow board
- Work area
- ▨ Barricade or drum with steady burning bidirectional light
- Flagger with traffic control sign
- Cone, drum or barricade
- ▢ Sign on portable or permanent support
- ▢ Type III barricade with flashing lights

- ① Refer to SIGN SPACING TABLE for distances.
- ② Required for speeds > 40 mph (70 km/h).
- ③ Required if work exceeds 500' (164 m) or 1 block, repeat every 1 mile (1.6 km).
- ④ Cones at 25' (8 m) centers for 250' (75 m) on approach. Additional cones may be placed at 50' (15 m) centers. When drums or type I or II barricades are used, the interval between devices may be doubled.
- ⑤ For approved sideroad closures.
- ⑥ Cones, drums or barricades at 20' (6 m) centers in taper.
- ⑦ Use flagger sign only when flagger is present.

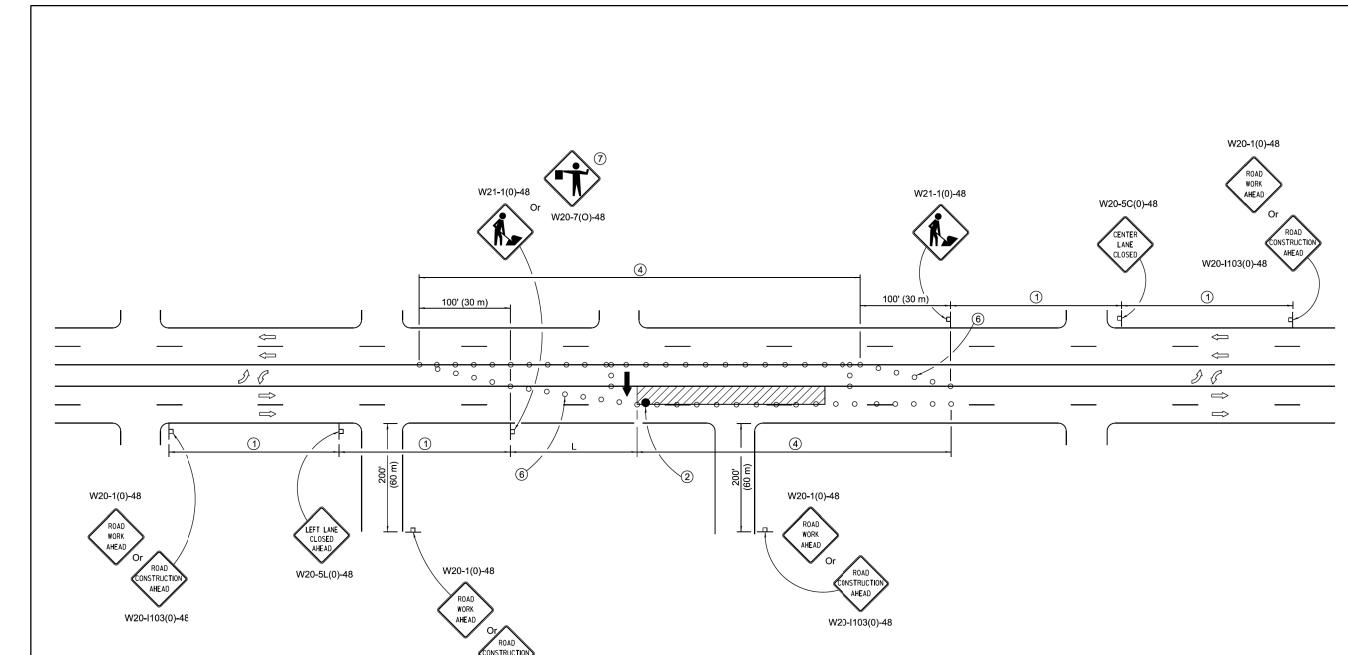
DATE	REVISIONS
1-1-19	Revised to allow cones at night.
1-1-18	Moved arrow boards into closed lanes for CASE I.
<b>URBAN LANE CLOSURE, MULTILANE, 2W WITH BIDIRECTIONAL LEFT TURN LANE</b>	
(Sheet 1 of 4)	
<b>STANDARD 701602-10</b>	



#### CASE II

URBAN LANE CLOSURE, MULTILANE, 2W WITH BIDIRECTIONAL LEFT TURN LANE	
(Sheet 2 of 4)	

**STANDARD 701602-10**



#### CASE III

URBAN LANE CLOSURE, MULTILANE, 2W WITH BIDIRECTIONAL LEFT TURN LANE	
(Sheet 3 of 4)	

**STANDARD 701602-10**



USER NAME = cwasowicz	DESIGNED - CJW	REVISED -	REVISED -
DRAWN - CJW	REVISED -	REVISED -	REVISED -
CHECKED - JDH	REVISED -	REVISED -	REVISED -

PLOT DATE = 12/20/2024

DATE = 11/07/2024

REVISED -

REVISED -

