

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	87-Y-N	COOK	102	1
		ILLINOIS	CONTRACT NO. 60J39	

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

**PROPOSED  
HIGHWAY PLANS**

FAU 3512 (US RTE 14 / NORTHWEST HIGHWAY)  
AT BROADWAY ST.

SECTION 87-Y-N  
PROJECT ACM-3512(013)

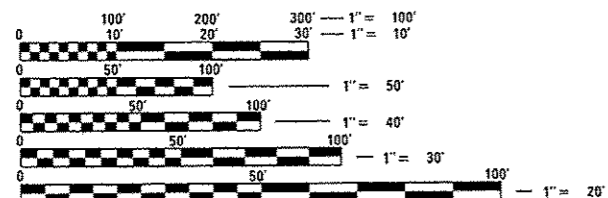
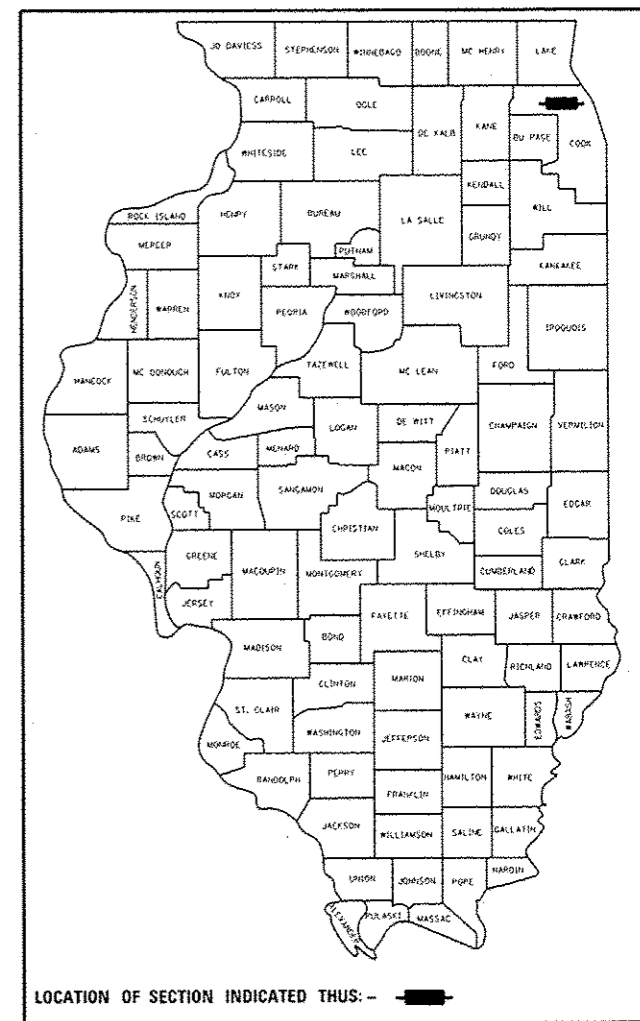
TRAFFIC SIGNAL INSTALLATION AND CHANNELIZATION  
COOK COUNTY  
C-91-229-10

FOR INDEX OF SHEETS, SEE SHEET NO. 2

THE PROJECT IS LOCATED IN  
THE CITY OF DES PLAINES

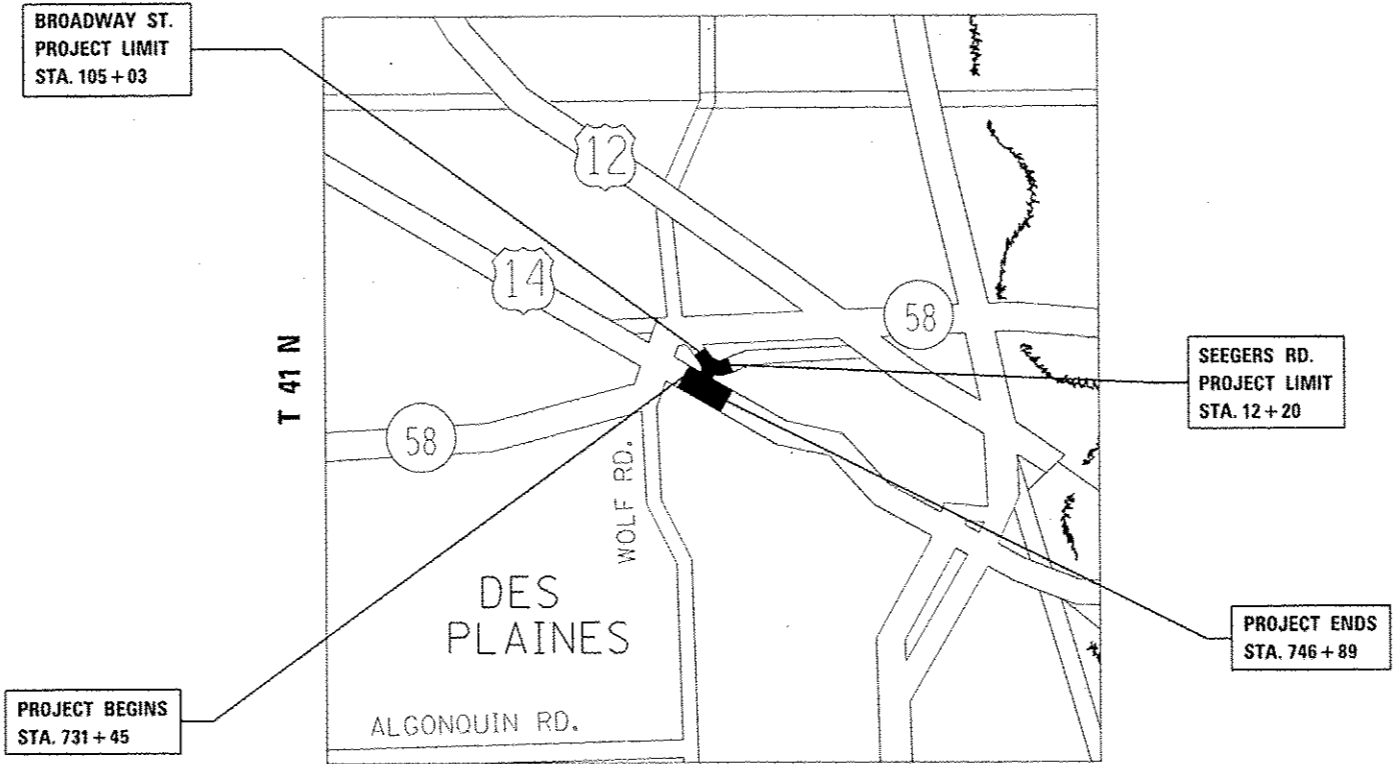
TRAFFIC DATA

US 14  
2015 ADT = 16,500  
POSTED SPEED LIMIT = 40 MPH  
BROADWAY ST.  
2008 ADT = 3,412  
POSTED SPEED LIMIT = 30 MPH



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.  
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION  
1-800-892-0123  
OR 811



PROJECT BEGINS  
STA. 731 + 45

SEEGERS RD.  
PROJECT LIMIT  
STA. 12 + 20

PROJECT ENDS  
STA. 746 + 89

MAINE TOWNSHIP

GROSS LENGTH = 1,544 FT. = 0.29 MILE  
NET LENGTH = 1,544 FT. = 0.29 MILE

PROJECT ENGINEER DAN WILGREEN (847) 705-4240  
PROJECT MANAGER FAWAD AQUEEL (847) 705-4247

CONTRACT NO. 60J39

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
SUBMITTED October 27, 2016  
John F. [Signature]  
REGIONAL ENGINEER  
Jan 27, 2017  
Maureen M. Addis [Signature]  
ENGINEER OF DESIGN AND ENVIRONMENT  
Jan 27, 2017  
[Signature]  
DIRECTOR OF PROGRAM DEVELOPMENT

PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS

# INDEX OF SHEETS

1	COVER SHEET
2-3	INDEX OF SHEETS, STATE STANDARDS, AND GENERAL NOTES
4-18	SUMMARY OF QUANTITIES
19-21	TYPICAL SECTIONS
22-24	SCHEDULE OF QUANTITIES
25-26	ALIGNMENT, TIES, AND BENCHMARKS
27-29	PLAN AND PROFILE SHEETS
30-32	SUGGESTED MAINTENANCE OF TRAFFIC - TYPICAL SECTIONS
33-38	SUGGESTED MAINTENANCE OF TRAFFIC
39	DETOUR PLAN
40-42	TEMPORARY EROSION CONTROL AND SEDIMENT CONTROL
43-47	DRAINAGE PLANS
47A	EXISTING WATERMAIN PLAN - CITY OF DES PLAINES (FOR INFORMATIONAL USE ONLY)
48-48A	SUE SHEET
49-52	PLAT OF HIGHWAY
53	PAVEMENT MARKING PLAN
54	LANDSCAPING PLAN
55	SIGN PLAN
56-64	SIDEWALK DETAILS
65	ELEVATION DETAIL
66-77	TRAFFIC SIGNAL PLANS
78-86	PROPOSED LIGHTING PLANS
87	(BD-01) DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W. AND FACE OF CURB & EDGE OF SHOULDER > 15'
88	(BD-02) DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W. AND FACE OF CURB < 15'
89	(BD-08) DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING
90	(BD-22) PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT
91	(BD-32) BUTT JOINT AND HMA TAPER DETAILS
92	(TC-10) TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS AND DRIVEWAYS
93	(TC-11) TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW PLOW RESISTANT)
94	(TC-13) DISTRICT ONE TYPICAL PAVEMENT MARKINGS
95	(TC-14) TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)
96	(TC-16) PAVEMENT MARKING LETTER AND SYMBOLS FOR TRAFFIC STAGING
97	(TC-22) ARTERIAL ROAD INFORMATION SIGN
98	(TC-26) DRIVEWAY ENTERANCE SIGNING
99-102	CROSS SECTIONS

# STANDARDS

000001-06	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
424001-09	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
424016-03	MID-BLOCK CURB RAMPS FOR SIDEWALKS
424026-01	ENTERANCE / ALLEY PEDESTRIAN CROSSINGS
424031-01	MEDIAN PEDESTRIAN CROSSINGS
442201-03	CLASS C AND D PATCHES
542301-03	PRECAST REINFORCED CONCRETE FLARED END SECTION
542606-02	REINFORCED CONCRETE PIPE TEE
602001-02	CATCH BASIN TYPE A
602301-04	INLET - TYPE A
602401-03	MANHOLE TYPE A
602411-05	MANHOLE TYPE A 7' DIAMETER
602416-05	MANHOLE TYPE A 8' DIAMETER
602601-04	PRECAST REINFORCED CONCRETE FLAT SLAB TOP
604001-04	FRAME AND LIDS TYPE 1
604061-03	FRAME AND GRATE TYPE 12
604086-03	FRAME AND GRATE TYPE 23
606001-06	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
606301-04	PC CONCRETE ISLANDS AND MEDIANS
630001-11	STEEL PLATE BEAM GUARDRAIL
701011-04	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701101-05	OFF-RD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE 2L, 2W MOVING OPERATIONS- DAY ONLY
701427-05	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS ≤ 40MPH
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701606-10	URBAN SINGLE LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701611-01	URBAN HALF ROAD CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-06	SIDEWALK, CORNER, OR CROSSWALK CLOSURE
701901-06	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
720011-01	METAL POSTS FOR SIGNS, MARKERS & DELINEATORS
725001-01	OBJECT AND TERMINAL MARKERS
729001-01	APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGNS & MARKERS)
780001-05	TYPICAL PAVEMENT MARKINGS
782006	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
805001-01	ELECTRICAL SERVICE INSTALLATION DETAILS
814001-03	HANDHOLES
814006-02	DOUBLE HANDHOLES
821101-02	LUMINAIRE WIRING DIAGRAM
825011-03	LIGHTING CONTROLLER PEDESTAL MOUNTED, 240V
830006-04	LIGHT POLE ALUMINUM DAVIT ARM
838001	BREAKAWAY DEVICES
862001-01	UNINTERRUPTABLE POWER SUPPLY (UPS)
877001-06	STEEL COMB. MAST ARM ASSEMBLY AND POLE 16' THROUGH 55'
878001-10	CONCRETE FOUNDATION DETAILS
880006-01	TRAFFIC SIGNAL MOUNTING DETAILS

FILE NAME :	USER NAME :	DESIGNED - RWB	REVISED - RWB 1/18/2017	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>GENERAL NOTES</b>				F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
Default		CHECKED -	REVISED -		<b>U.S. ROUTE 14 AT BROADWAY STREET</b>				3512	87-Y-N	COOK	102	2
		DATE - 10/24/2016	REVISED -		SCALE:	SHEET 1	OF 2	SHEETS	STA.	TO STA.	CONTRACT NO. 60J39		
					ILLINOIS FED. AID PROJECT								

Rev

## GENERAL NOTES

- ① BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT (800) 892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS UTILITIES. 48 HOUR NOTIFICATION IS REQUIRED.
- ② THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY FROM CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.31 OF THE STANDARD SPECIFICATIONS. ANY DAMAGE TO THE UNDERGROUND FACILITIES CAUSED BY THE CONTRACTOR SHALL BE REPAIRED TO THE SATISFACTION OF THE DEPARTMENT AT THE CONTRACTOR'S EXPENSE, INCLUDING TEMPORARY REPAIRS WHICH MAY BE REQUIRED TO KEEP THE FACILITY OPERATIONAL WHILE MATERIAL IS BEING OBTAINED TO MAKE PERMANENT REPAIRS.
- ③ THE LOCATIONS OF THOSE BURIED AND ABOVE GROUND UTILITIES SHOWN ARE APPROXIMATE, ARE SHOWN FOR CONTRACTOR INFORMATIONAL USE ONLY, AND ARE NOT TO BE REFERENCED FOR CONSTRUCTION PURPOSES. THE IMPLIED PRESENCE OR ABSENCE OF UTILITIES IS NOT TO BE CONSTRUED BY THE OWNER, ENGINEER, CONTRACTOR, OR SUBCONTRACTORS TO BE AN ACCURATE AND COMPLETE REPRESENTATION OF UTILITIES THAT MAY OR MAY NOT EXIST ON THE CONSTRUCTION SITE. BURIED AND ABOVE GROUND UTILITY LOCATIONS, IDENTIFICATION, AND MARKING ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. REROUTING, DISCONNECTION, PROTECTION, ETC. OF ANY UTILITIES MUST BE COORDINATED BETWEEN CONTRACTOR, UTILITY COMPANY, AND OWNER. SITE SAFETY, INCLUDING THE AVOIDANCE OF HAZARDS ASSOCIATED WITH BURIED AND ABOVE GROUND UTILITES REMAIN THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- ④ THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, AND THE CITY OF DES PLAINES.
- ⑤ A NEW FRAME AND LID WILL BE USED FOR ALL CITY OF DES PLAINES UTILITY ADJUSTMENTS AND RECONSTRUCTIONS. THE NEW FRAME AND LID WILL BE PAID FOR AS FRAMES AND LIDS, SPECIAL
- ⑥ THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
- ⑦ THE CONTRACTOR SHALL CONTACT RICK WILLMAN, PACE SUBURBAN BUS TRANSPORTATION ENGINEER, AT (847) 228-3584 OR RICHARD.WILLMAN@PACEBUS.COM A MINIMUM OF TEN (10) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION, SO PACE CAN NOTIFY THEIR OPERATORS, SCHEDULES, AND RIDERS OF THE CONSTRUCTION.
- ⑧ THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
- ⑨ THE CONCONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.
- ⑩ BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE, ALL EXISTING PAVEMENT MARKING LINES (AND RAISED REFLECTIVE PAVEMENT MARKERS) IN ORDER THAT THE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE AS DIRECTED BY THE ENGINEER.
- ⑪ IN ADDITION TO FIELD AND AERIAL SURVEYS, PLAN DIMENSIONS AND DETAILS RELATIVE TO THE EXISTING FACILITIES HAVE BEEN TAKEN FROM EXISTING PLANS AND ARE SUBJECT TO CONSTRUCTION VARIATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY SUCH DIMENSIONS AND EXISTING CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING MATERIALS. SUCH VARIATIONS SHALL NOT BE A CAUSE FOR ADDITIONAL COMPENSATION DUE TO A CHANGE IN THE SCOPE OF WORK. HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.
- ⑫ DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
- ⑬ THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS FOR THE PROTECTION OF EXISTING PLANT MATERIAL FOR WHICH THE CONTRACT DOES NOT PROVIDE REMOVAL. THE PROTECTION OF EXISTING PLANT MATERIAL AND THE REPAIR OR REPLACEMENT OF EXISTING PLANT MATERIAL DAMAGED BY THE CONTRACTOR SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 201 OF THE STANDARD SPECIFICATIONS.
- ⑭ OVERNIGHT LANE CLOSURES SHALL NOT BE ALLOWED FOR REHABILITATION PROJECTS INVOLVING DAYTIME MILLING AND RESURFACING OPERATIONS AND CLASS D PATCHING UNLESS OTHER CONDITIONS WARRANT EXTENDED LANE CLOSURES AS DETERMINED AND APPROVED IN WRITING BY THE ENGINEER OR AS PROVIDED IN THE CONTRACT SPECIFICATIONS.
- ⑮ WHERE SECTION OR SUB-SECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER, AN AUTHORIZED SURVEYOR, OR AGENT HAS WITNESSED THEIR LOCATION.
- ⑯ THE EXACT LOCATIONS AND SIZES OF PAVEMENT PATCHES SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.
- ⑰ FOR STORM SEWER CONSTRUCTED UNDER THE ROADWAY, BACKFILLING METHODS TWO AND THREE AUTHORIZED UNDER THE PROVISIONS OF ARTICLE 550.07 OF THE STANDARD SPECIFICATIONS WILL NOT BE ALLOWED.
- ⑱ WHEN THE MILLED PAVEMENT IS OPEN TO TRAFFIC THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1 1/2 INCHES WHERE THE SPEED LIMIT IS 40 MPH OR LESS AND 1 INCH WHERE THE SPEED LIMIT IS GREATER THAN 40 MPH. WITH WRITTEN APPROVAL OF THE ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM 1:3 (V:H) OR A NOTCHED LONGITUDINAL WEDGE IS USED.
- ⑲ ANY PAVEMENT MARKINGS AND RAISED REFLECTIVE PAVEMENT MARKERS OBLITERATED BY MILLING AND RESURFACING OPERATIONS ON SIDE STREETS AND ENTRANCES SHALL BE REPLACED AND PAID FOR IN KIND.
- ⑳ ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT NO ADDITIONAL COST TO THE DEPARTMENT.
- ㉑ EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR ACCORDING TO ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED
- ㉒ FRAMES AND GRATES ADJUSTMENT OF PRIVATE UTILITIES WITHIN THE LIMITS OF THE IMPROVEMENTS SHALL BE DONE BY THEIR RESPECTIVE OWNERS AND ARE NOT PART OF THIS CONTRACT.
- ㉓ THE NOMINAL THICKNESS FOR HMA BASE AND SURFACE COURSES ARE SHOWN ON THE TYPICAL SECTIONS, STANDARDS, SCHEDULES, OR SPECIAL DETAILS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE HMA MIXTURE IS PLACED.
- ㉔ TEN (10) FOOT TRANSITIONS SHALL BE USED TO MATCH PROPOSED CURB AND GUTTER AND MEDIAN ITEMS OF WORK TO EXISTING CURBS AND GUTTER MEDIANS IN THE FIELD, UNLESS OTHERWISE SHOWN. THE TRANSITIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PROPOSED ITEMS OF WORK SPECIFIED.
- ㉕ PAVEMENT MARKING TAPE, TYPE III SHALL BE USED FOR SHORT TERM PAVEMENT MARKINGS ON ALL FINAL SURFACES.
- ㉖ DOUBLE LANE MARKERS ARE TO BE USED AS SHOWN ON THE DISTRICT ONE DETAIL "TYPICAL APPLICATIONS - RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)" SHOWN IN THE PLANS.
- ㉗ THE ENGINEER SHALL CONTACT CORY JUCIUS, AREA TRAFFIC FIELD ENGINEER, AT CORY.JUCIUS@ILLINOIS.GOV A MINIMUM OF TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.

FILE NAME *	USER NAME * bartonw	DESIGNED - RWB	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>GENERAL NOTES</b>				F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pa\1\1084EBID\INTEG.11\ins\gov\FMIDOT\Documents\DOT Offices\District 1\Projects\F1434\ORLANDO\Design\RD\909-aht-gennote.dwg	PROJECT: 11/25/2016	CHECKED -	REVISED -		<b>U.S. ROUTE 14 AT BROADWAY STREET</b>				3512	87-Y-N	COOK	102	3
Default	PLOT SCALE * 1/8"=1'-0"	DATE - 10/25/2016	REVISED -		SCALE:	SHEET 2	OF 2	SHEETS	STA.	TO STA.	<b>CONTRACT NO. 60J39</b>		
	PLOT DATE * 11/3/2016				ILLINOIS FED. AID PROJECT								

SUMMARY OF QUANTITIES				CONSTRUCTION TYPE CODE																					
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	0004	0021	0021	0021	0004	0004	0021	0043														
				ROADWAY	SIGNALS	EVP	SPECIAL USE	BUS PAD/FENCE	PARKING LINES RECORD	LIGHTING	UTILITIES	80% FEDERAL	80% FEDERAL	100% LOCAL	80% FEDERAL	100% LOCAL	100% LOCAL	100% LOCAL							
				20% STATE	20% STATE	100% LOCAL	80% FEDERAL	100% LOCAL	100% LOCAL	100% LOCAL	100% LOCAL														
X1200075	CASING PIPE, PVC, SDR 26, 12"	FOOT	40								40														
X1200085	CASING PIPE, PVC, SDR 26, 15"	FOOT	280								280														
X1700020	CURB KEYWAY	FOOT	73				73																		
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	43	43																					
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	18	18																					
20101100	TREE TRUNK PROTECTION	EACH	3	3																					
* 20101400	NITROGEN FERTILIZER NUTRIENT	POUND	35	35																					
* 20101500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	35	35																					
* 20101600	POTASSIUM FERTILIZER NUTRIENT	POUND	35	35																					
20200100	EARTH EXCAVATION	CU YD	531	531																					
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	386	386																					
20800150	TRENCH BACKFILL	CU YD	4110	4110																					
21101615	TOPSOIL FURNISH AND PLACE, 4"	SO YD	2748	2748																					
* 25000310	SEEDING, CLASS 4	ACRE	0.03	0.03																					
* 25100630	EROSION CONTROL BLANKET	SQ YD	125	125																					
* SPECIALTY ITEMS																									

FILE NAME :	USER NAME :	DESIGNED :	REVISIONS :	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>U.S. ROUTE 14 AT BROADWAY STREET</b> <b>SUMMARY OF QUANTITIES</b>	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
OFFICE :	DATE :	CHECKED :	DATE :			3512	87-Y-N	COOK	102	4	
PLOT SCALE :						CONTRACT NO. 60J39					
PLOT DATE :						FED. ROAD DIST. NO. 1   ILLINOIS FED. AID PROJECT					
						SCALE:	SHEET NO. 1 OF 15 SHEETS	STA.	TO STA.		

Rev

SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE																	
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	0004	0021	0021	0021	0004	0004	0021	0043									
				ROADWAY	SIGNALS	EVP	SIDEWALK/SHRED USE	BUS PAD/FENCE	PARKING LINES RECON.	LIGHTING	UTILITIES	80% FEDERAL	80% FEDERAL	100% LOCAL	80% FEDERAL	100% LOCAL	100% LOCAL	100% LOCAL	100% LOCAL	
				20% STATE	20% STATE	100% LOCAL	80% FEDERAL	100% LOCAL	100% LOCAL	100% LOCAL	100% LOCAL									
25200110	SODDING, SALT TOLERANT	SO YD	2623	2623																
25200200	SUPPLEMENTAL WATERING	UNIT	24	24																
28000400	PERIMETER EROSION BARRIER	FOOT	3794	3794																
28000510	INLET FILTERS	EACH	16	16																
28001100	TEMPORARY EROSION CONTROL BLANKET	SO YD	4680	4680																
28100107	STONE RIPRAP, CLASS A4	SO YD	86	86																
28200200	FILTER FABRIC	SO YD	86	86																
30300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	150	150																
30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SO YD	798	704					94											
31101200	SUBBASE GRANULAR MATERIAL, TYPE B 4"	SO YD	427	427																
35501316	HOT-MIX ASPHALT BASE COURSE, 8"	SO YD	134	134																
35600706	HOT-MIX ASPHALT BASE COURSE WIDENING, 7 1/2"	SO YD	798	704					94											
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	7876	7812					64											
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	20	20																
	* SPECIALTY ITEMS																			

14

SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE																	
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	0004	0021	0021	0021	0004	0004	0021	0043									
				ROADWAY	SIGNALS	EVP	SIDEWALK/SWED USE	BUS PAD/FENCE	PARKING LINES RECON.	LIGHTING	UTILITIES	80% FEDERAL	80% FEDERAL	100% LOCAL	80% FEDERAL	100% LOCAL	100% LOCAL	100% LOCAL	100% LOCAL	
				20% STATE	20% STATE	100% LOCAL	80% FEDERAL	100% LOCAL	100% LOCAL	100% LOCAL	100% LOCAL									
40600827	POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50	TON	587	583					4											
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SO YD	100	100																
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	15	15																
40603565	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "E", N70	TON	1370	1360					10											
42300400	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH	SO YD	67	67																
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SO FT	8130	6862			1268													
42400410	PORTLAND CEMENT CONCRETE SIDEWALK 8 INCH	SO FT	1205	1205																
42400800	DETECTABLE WARNINGS	SO FT	197	165			32													
44000100	PAVEMENT REMOVAL	SO YD	180	180																
44000159	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"	SO YD	13266	13266																
44000200	DRIVEWAY PAVEMENT REMOVAL	SO YD	251	251																
44000300	CURB REMOVAL	FOOT	7	7																
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	4562	4562																
	* SPECIALTY ITEMS																			

B

FILE NAME *	USER NAME *	DESIGNED -	REVISIONS -
DRIVEWAY	DRIVEWAY	RWB	

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**U.S. ROUTE 14 AT BROADWAY STREET  
SUMMARY OF QUANTITIES**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	87-Y-N	COOK	102	6
CONTRACT NO. 60J39				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

Rev

SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE																				
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	0004 ROADWAY 80% FEDERAL 20% STATE	0021 SIGNALS 80% FEDERAL 20% STATE	0021 EYP 100% LOCAL	0021 SIDEWALK/SHARED USE 80% FEDERAL 20% LOCAL	0004 BUS PAD/FENCE 100% LOCAL	0004 PARKING LINES RECON. 100% LOCAL	0021 LIGHTING 100% LOCAL	0043 UTILITIES 100% LOCAL												
44000600	SIDEWALK REMOVAL	SQ FT	7429	7429																			
44003100	MEDIAN REMOVAL	SQ FT	172	172																			
44201827	CLASS D PATCHES, TYPE II, 15 INCH	SQ YD	313	313																			
44201831	CLASS D PATCHES, TYPE III, 15 INCH	SQ YD	358	358																			
44201833	CLASS D PATCHES, TYPE IV, 15 INCH	SQ YD	2505	2505																			
54213693	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 48"	EACH	1	1																			
550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	FOOT	746	746																			
550A0360	STORM SEWERS, CLASS A, TYPE 2 15"	FOOT	314	314																			
550A0480	STORM SEWERS, CLASS A, TYPE 2 48"	FOOT	460	460																			
550A0780	STORM SEWERS, CLASS A, TYPE 3 48"	FOOT	982	982																			
55100100	STORM SEWER REMOVAL 4"	FOOT	15	15																			
55100200	STORM SEWER REMOVAL 6"	FOOT	8	8																			
55100300	STORM SEWER REMOVAL 8"	FOOT	45	45																			
56100600	WATER MAIN 6"	FOOT	180									180											
56100700	WATER MAIN 8"	FOOT	275									275											
	• SPECIALTY ITEMS																						

15

FILE NAME =	USER NAME = bartonw	DESIGNED - RWB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	U.S. ROUTE 14 AT BROADWAY STREET SUMMARY OF QUANTITIES	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\VLD\BCE\BENT\EG\Illinois\gov\PI\DOT\Documents\ND\	Offices\Dr\11\1\Proj\fact\PH\3909\CAQ\Bent\Design\PI\43	DRAWN BY - RWB	REVISED -			3512	87-Y-N	COOK	102	7
PLOT SCALE = 100,000' / 1"	CHECKED -	REVISOR -				CONTRACT NO. 60J39				
PLOT DATE = 11/3/2016	DATE = 11/1/2016	REVISOR -				SCALE:	SHEET NO. 4 OF 15 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

Rev

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE																
CODE NO	ITEM	UNIT		0004 ROADWAY	0021 SIGNALS	0021 EVP	0021 SIDEWALK/SWIM LSE	0004 BUS PAD/FENCE	0004 PARKING LINES RECON.	0021 LIGHTING	0043 UTILITIES									
				80% FEDERAL 20% STATE	80% FEDERAL 20% STATE	100% LOCAL	80% FEDERAL 20% LOCAL	100% LOCAL	100% LOCAL	100% LOCAL	100% LOCAL	100% LOCAL								
56100800	WATER MAIN 10"	FOOT	60								60									
56101000	WATER MAIN 16"	FOOT	45								45									
56400510	FIRE HYDRANTS TO BE REMOVED AND REPLACED	EACH	1								1									
60201205	CATCH BASINS, TYPE A, 4' DIAMETER, TYPE 12 FRAME AND GRATE	EACH	9	9																
60201330	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 23 FRAME AND GRATE	EACH	19	19																
60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	5	5																
60221100	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	1																
60223800	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	7	7																
60224446	MANHOLES, TYPE A, 7'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	4	4																
60224459	MANHOLES, TYPE A, 8'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	2	2																
60236900	INLETS, TYPE A, TYPE 12 FRAME AND GRATE	EACH	1	1																
60255500	MANHOLES TO BE ADJUSTED	EACH	3								3									
60257900	MANHOLES TO BE RECONSTRUCTED	EACH	1								1									
60260100	INLETS TO BE ADJUSTED	EACH	4	4																
	* SPECIALTY ITEMS																			

FILE NAME: \\VLD04C\BID\RTG\Illinois\pww\1007\Documents\007\07100800\100800.dwg	USER NAME: bpr1000	DESIGNED - RWB	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>U.S. ROUTE 14 AT BROADWAY STREET SUMMARY OF QUANTITIES</b>	F.A.I. RTE. 3512	SECTION 87-Y-N	COUNTY COOK	TOTAL SHEETS 102	SHEET NO. 8		
PLOT SCALE: 1/8" = 1'-0"	CHECKED -	REVISED -	SCALE:			SHEET NO. 5 OF 15 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
PLOT DATE: 11/3/2016	DATE: 11/1/2016	REVISED -	CONTRACT NO. 60J39									

Rev



SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE																
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	0004	0021	0021	0021	0004	0004	0021	0043								
				ROADWAY	SIGNALS	EVP	SIDEWALK/SHOULDER USE	BUS PAD/FENCE	PARKING LINES REQ.	LIGHTING	UTILITIES	80% FEDERAL	80% FEDERAL	100% LOCAL	80% FEDERAL	100% LOCAL	100% LOCAL	100% LOCAL	100% LOCAL
				20% STATE	20% STATE		20% LOCAL												
60265700	VALVE VAULTS TO BE ADJUSTED	EACH	5								5								
60266100	VALVE VAULTS TO BE RECONSTRUCTED	EACH	1								1								
60500060	REMOVING INLETS	EACH	3	3															
60600605	CONCRETE CURB, TYPE B	FOOT	154	154															
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	1529	1300					229										
60604400	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18	FOOT	1946	1946															
60608562	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-4.12	FOOT	328	328															
60618300	CONCRETE MEDIAN SURFACE, 4 INCH	SO FT	344	344															
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	2400	2400															
* 66900450	SPECIAL WASTE PLANS AND REPORTS	LSUM	1	1															
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	6	6															
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	15	15															
67100100	MOBILIZATION	LSUM	1	1															
	* SPECIALTY ITEMS																		

14

Rev

SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE																	
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	0004	0021	0021	0021	0004	0004	0021	0043									
				ROADWAY	SIGNALS	EVP	SUBURBAN/SHRED USE	BUS PAD/FENCE	PARKING LINES RECD.	LIGHTING	UTILITIES	80% FEDERAL	80% FEDERAL	100% LOCAL	80% FEDERAL	100% LOCAL	100% LOCAL	100% LOCAL	100% LOCAL	
				20% STATE	20% STATE	100% LOCAL	80% FEDERAL	100% LOCAL	100% LOCAL	100% LOCAL	100% LOCAL									
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	45	45																
70300100	SHORT TERM PAVEMENT MARKING	FOOT	14269	14269																
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SO FT	4752	4752																
70300210	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS	SO FT	330	330																
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	29551	29551																
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	512	512																
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	131	131																
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	265	265																
70400100	TEMPORARY CONCRETE BARRIER	FOOT	723	723																
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	101	101																
70600260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	8	8																
70600332	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2	2																
72000100	SIGN PANEL - TYPE 1	SO FT	151	133	18															
72400100	REMOVE SIGN PANEL ASSEMBLY - TYPE A	EACH	14	14																
	* SPECIALTY ITEMS																			

FILE NAME : p:\110846\BID\NT EG\110846\PH\DOT\Documents\110846	USER NAME : bartonw	DESIGNED - RWB	REVISIONS -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>U.S. ROUTE 14 AT BROADWAY STREET SUMMARY OF QUANTITIES</b>	F.A.U. RTE. 3512	SECTION 87-Y-N	COUNTY COOK	TOTAL SHEETS 102	SHEET NO. 10	
Plot Scale = 100,000' / 1"	CHECKED -	REVISIONS -	SCALE:			SHEET NO. 7 OF 15 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT		CONTRACT NO. 60J39	
Plot Date = 11/3/2016	DATE - 11/1/2016	REVISIONS -									

14

Rev



SUMMARY OF QUANTITIES				CONSTRUCTION TYPE CODE																		
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	0004	0021	0021	0021	0004	0004	0021	0043											
				ROADWAY	SIGNALS	EVP	SIDEWALK/SWED USE	BUS PAD/FENCE	PARKING LINES RECON.	LIGHTING	UTILITIES	80% FEDERAL	80% FEDERAL	100% LOCAL	80% FEDERAL	100% LOCAL	100% LOCAL	100% LOCAL	100% LOCAL			
				20% STATE	20% STATE		20% LOCAL															
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	76	76																		
80400100	ELECTRIC SERVICE INSTALLATION	EACH	1							1												
80500020	SERVICE INSTALLATION - POLE MOUNTED	EACH	1		1																	
81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	641		571		70															
81028210	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	206		156					50												
81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	104		104																	
81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	739		435					304												
81400100	HANDHOLE	EACH	3		3																	
81400200	HEAVY-DUTY HANDHOLE	EACH	1		1																	
81400300	DOUBLE HANDHOLE	EACH	2		2																	
81603090	UNIT DUCT, 600V, 3-1C NO. 4, 1/C NO. 6 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE	FOOT	1050							1050												
81702160	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 1/0	FOOT	150							150												
	* SPECIALTY ITEMS																					

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SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE																	
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	0004 ROADWAY	0021 SIGNALS	0021 EVP	0021 SIDEWALK/SHRED USE	0004 BUS PAD/FENCE	0004 PARKING LINES RECON.	0021 LIGHTING	0043 UTILITIES									
				80% FEDERAL 20% STATE	80% FEDERAL 20% STATE	100% LOCAL	80% FEDERAL 20% LOCAL	100% LOCAL	100% LOCAL	100% LOCAL										
82500335	LIGHTING CONTROLLER, PEDESTAL MOUNTED, 240VOLT, 100AMP	EACH	1							1										
83050730	LIGHT POLE, ALUMINUM, 47.5 FT. M. H., 8 FT. DAVIT ARM	EACH	7							7										
83600365	LIGHT POLE FOUNDATION, METAL, 15" BOLT CIRCLE, 10" X 8'	EACH	7							7										
83800205	BREAKAWAY DEVICE, TRANSFORMER BASE, 15 INCH BOLT CIRCLE	EACH	7							7										
85000500	MAINTENANCE OF EXISTING FLASHING BEACON INSTALLATION	EACH	2		2															
87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	774		774															
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1510		1510															
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2503		2503															
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1065		1065															
87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1560		1560															
	* SPECIALTY ITEMS																			

FILE NAME :  
 USER NAME : barton  
 DESIGNED - RWB  
 REVISIONS  
 CHECKED - RWB  
 REVISIONS  
 PLOT SCALE : 1/8" = 1'-0"  
 PLOT DATE : 11/3/2016  
 DATE : 11/1/2016  
 REVISIONS

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

U.S. ROUTE 14 AT BROADWAY STREET  
 SUMMARY OF QUANTITIES

F.A.U. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO.  
 3512 87-Y-N COOK 102 13  
 CONTRACT NO. 60J39  
 FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

SCALE: SHEET NO. 10 OF 15 SHEETS STA. TO STA.

10

SUMMARY OF QUANTITIES				CONSTRUCTION TYPE CODE																							
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	0004	0021	0021	0021	0004	0004	0021	0043																
				ROADWAY	SIGNALS	EVP	SUBURBAN/SHARED USE	BUS PAD/FENCE	PARKING LINES REQ'D.	LIGHTING	UTILITIES	80% FEDERAL	80% FEDERAL	100% LOCAL	80% FEDERAL	80% FEDERAL	100% LOCAL	100% LOCAL	100% LOCAL	100% LOCAL							
				20% STATE	20% STATE	100% LOCAL	80% FEDERAL	20% LOCAL	100% LOCAL	100% LOCAL	100% LOCAL																
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	38		38																						
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	855		855																						
87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	3		3																						
87502520	TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.	EACH	2		2																						
87700200	STEEL MAST ARM ASSEMBLY AND POLE, 32 FT.	EACH	1		1																						
87700230	STEEL MAST ARM ASSEMBLY AND POLE, 38 FT.	EACH	1		1																						
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	20		20																						
87800150	CONCRETE FOUNDATION, TYPE C	FOOT	4		4																						
87800400	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	27		27																						
88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	4		4																						
88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	4		4																						
	* SPECIALTY ITEMS																										

11

FILE NAME: p:\110846\BID\ETC\110846\PWIDOT\Document\110846\OffRoad\Distal NProj\cadd\110846\CAD\030\Design\110846\030\Drawn\sign - RWB	USER NAME: dorrnw	DESIGNED: RWB	REVISIONS:	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION						U.S. ROUTE 14 AT BROADWAY STREET SUMMARY OF QUANTITIES						F.A.J. RTE: 3512	SECTION: 87-Y-N	COUNTY: COOK	TOTAL SHEETS: 102	SHEET NO.: 14	
	PLOT SCALE: 1/8" = 1'-0"	CHECKED: RWB	REVISIONS:													SCALE: SHEET NO. 11 OF 15 SHEETS		STA. TO STA.		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	
	PLOT DATE: 11/3/2016	DATE: 11/1/2016	REVISIONS:													CONTRACT NO. 60J39					

SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE																	
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	0004	0021	0021	0021	0004	0004	0021	0043									
				ROADWAY	SIGNALS	EVP	SIGNALS/SHARED USE	BUS PAD/FENCE	PARKING LINES REQD.	LIGHTING	UTILITIES	80% FEDERAL	80% FEDERAL	100% LOCAL	80% FEDERAL	100% LOCAL	100% LOCAL	100% LOCAL	100% LOCAL	
				20% STATE	20% STATE		20% LOCAL													
• 88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	3		3															
• 88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	1		1															
• 88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4		4															
• 88200410	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	5		5															
• 88500100	INDUCTIVE LOOP DETECTOR	EACH	5		5															
• 88600100	DETECTOR LOOP, TYPE I	FOOT	533		533															
• 88700200	LIGHT DETECTOR	EACH	3			3														
• 88700300	LIGHT DETECTOR AMPLIFIER	EACH	1			1														
• 88800100	PEDESTRIAN PUSH-BUTTON	EACH	4		4															
• 89501510	RELOCATE EXISTING FLASHING BEACON	EACH	1		1															
• 89502400	REMOVE EXISTING FLASHING BEACON INSTALLATION COMPLETE	EACH	2		2															
	• SPECIALTY ITEMS																			

12

FILE NAME =	USER NAME =	DESIGNED -	REVISIONS -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>U.S. ROUTE 14 AT BROADWAY STREET SUMMARY OF QUANTITIES</b>	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
par\NLS08AEB\BID\HT EG\Illinois\spec\PH1007\Documents\IND	OFF1007\Q1\112\NProj\acts\PH43302\CA000en\Design\PH3	BY	DATE			3512	87-Y-N	COOK	102	15
PLOT SCALE =	CHECKED -	REVISIONS -	REVISIONS -			CONTRACT NO. 60J39				
PLOT DATE =	DATE -	REVISIONS -	REVISIONS -			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

Rev

SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE																
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	0004	0021	0021	0021	0004	0004	0021	0043								
				ROADWAY	SIGNALS	EVP	SHOULDER USE	BUS PAD/FENCE	PARKING LINES RECD.	LIGHTING	UTILITIES	80% FEDERAL	80% FEDERAL	100% LOCAL	80% FEDERAL	100% LOCAL	100% LOCAL	100% LOCAL	100% LOCAL
				20% STATE	20% STATE	100% LOCAL	80% FEDERAL	100% LOCAL	100% LOCAL	100% LOCAL	100% LOCAL								
* A2004520	TREE, GINKGO BILOBA PRINCETON SENTRY (PRINCETON SENTRY GINKGO), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	3	3															
* A2008100	TREE, TILIA CORDATA GLENLEVEN (GLENLEVEN LITTLELEAF LINDEN), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	2	2															
K1005418	TEMPORARY SEEDING	ACRE	0.97	0.97															
X0321309	CONCRETE PAD	SO YD	60					60											
X0322917	PROPOSED STORM SEWER CONNECTION TO EXISTING MANHOLE	EACH	4	4															
* X0324085	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	708			708													
X0327979	PAVEMENT MARKING REMOVAL - GRINDING	SO FT	266	266															
X0327980	PAVEMENT MARKING REMOVAL - WATER BLASTING	SO FT	1041	1041															
* X1400107	FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET	EACH	1		1														
X2080250	TRENCH BACKFILL, SPECIAL	CU YD	465								465								
X2130010	EXPLORATION TRENCH, SPECIAL	FOOT	105								105								
X4022000	TEMPORARY ACCESS (COMMERCIAL ENTRANCE) * SPECIALTY ITEMS	EACH	6	6															

12



SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE																		
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	0004	0021	0021	0021	0004	0004	0021	0043										
				ROADWAY	SIGNALS	EVP	SIGNALS/SHRED USE	BUS PAD/FENCE	PARKING LINES REQ.	LIGHTING	UTILITIES	80% FEDERAL	80% FEDERAL	100% LOCAL	80% FEDERAL	100% LOCAL	100% LOCAL	100% LOCAL	100% LOCAL		
				20% STATE	20% STATE	100% LOCAL	20% LOCAL	100% LOCAL	100% LOCAL	100% LOCAL	100% LOCAL										
X4023000	TEMPORARY ACCESS (ROAD)	EACH	1	1																	
X5610004	DUCTILE IRON WATER MAIN FITTINGS	POUND	16170								16170										
X6030310	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	7								7										
X6040205	FRAMES AND LIDS, SPECIAL	EACH	17								17										
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	LSUM	1	1																	
X7040125	PINNING TEMPORARY CONCRETE BARRIER	EACH	156	156																	
X8040400	ELECTRIC UTILITY SERVICE CONNECTION	EACH	1							1											
X8211285	LUMINAIRE, LED, HORIZONTAL MOUNT, 285 WATT	EACH	7							7											
X8620200	UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1		1																
X2200018	ORNAMENTAL FENCE	FOOT	109				109														
Z0000200	ADJUST EXISTING GUARD RAIL	FOOT	100	100																	
Z0010615	CLEANING EXISTING INLETS	EACH	4	4																	
Z0013798	CONSTRUCTION LAYOUT	LSUM	1	1																	
Z0030850	TEMPORARY INFORMATION SIGNING	50 FT	103	103																	
Z0033020	LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	7							7											
Z0056668	STORM SEWERS, TYPE 2, WATER MAIN	FOOT	370	370																	
	QUALITY PIPE, 12"																				
	• SPECIALTY ITEMS <input type="checkbox"/> NON - PART. (100 % STATE)																				

FILE NAME :	USER NAME : berlanw	DESIGNED - RWB	REVISED -
OFF/loc/Dir/Id/N/Proj/Sec/PH/3309/CA0001/Design/PH/3309/DR/0001.dgn		CHECKED - RWB	REVISED -
PLOT SCALE : 1/8" = 1'-0"		DATE - 11/1/2016	REVISED -
PLOT DATE : 11/3/2016			

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

U.S. ROUTE 14 AT BROADWAY STREET  
SUMMARY OF QUANTITIES

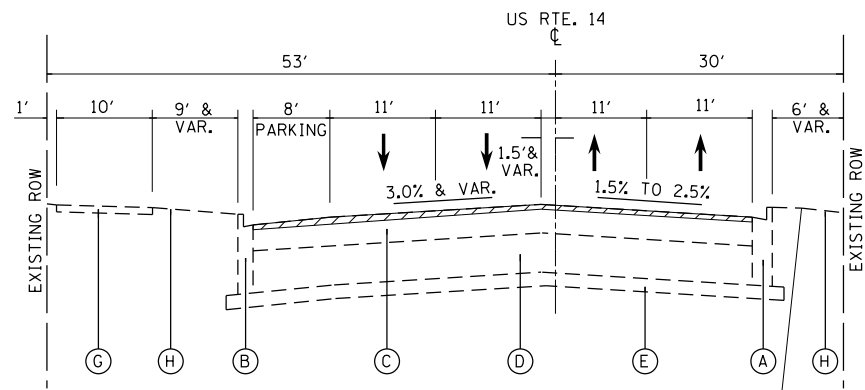
SCALE: SHEET NO. 14 OF 15 SHEETS STA. TO STA.

F.A.L.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	87-Y-N	COOK	102	17
CONTRACT NO. 60J39				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

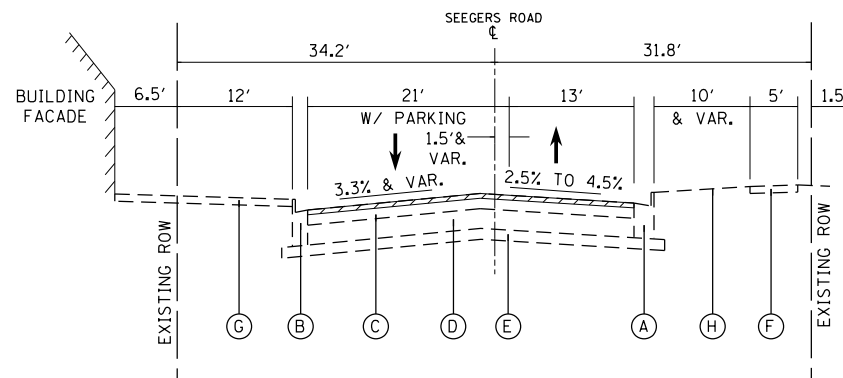
Rev

SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE																			
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	0004 ROADWAY	0021 SIGNALS	0021 EVP	0021 SIDEWALK/SWED USE	0004 BUS PAD/FENCE	0004 PARKING LINES RECON.	0021 LIGHTING	0043 UTILITIES											
				80% FEDERAL 20% STATE	80% FEDERAL 20% STATE	100% LOCAL	80% FEDERAL 20% LOCAL	100% LOCAL	100% LOCAL	100% LOCAL	100% LOCAL											
Z0056669	STORM SEWERS, TYPE 2, WATER MAIN QUALITY PIPE, 15"	FOOT	216	216																		
Z0062456	TEMPORARY PAVEMENT	SO YD	427	427																		
φ Z0076600	TRAINEES	Hour	500	500																		
φ Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	Hour	500	500																		
* SPECIALTY ITEMS φ 0042																						

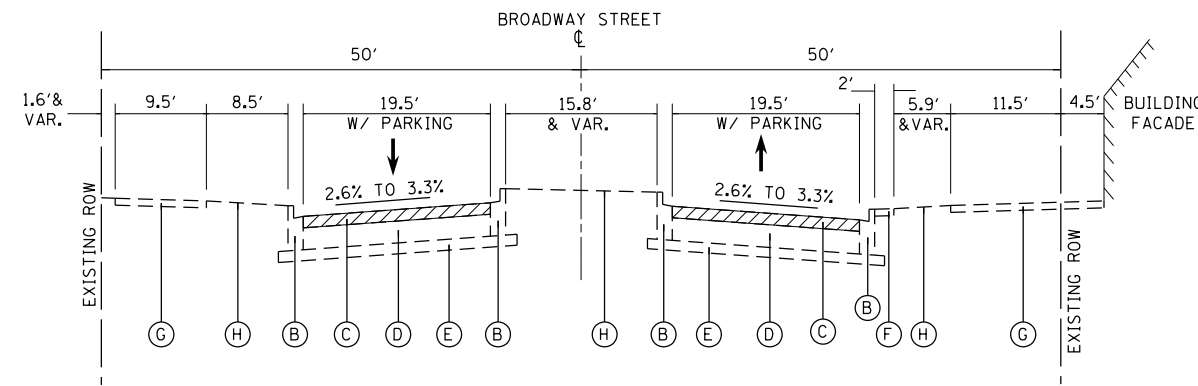
Rev



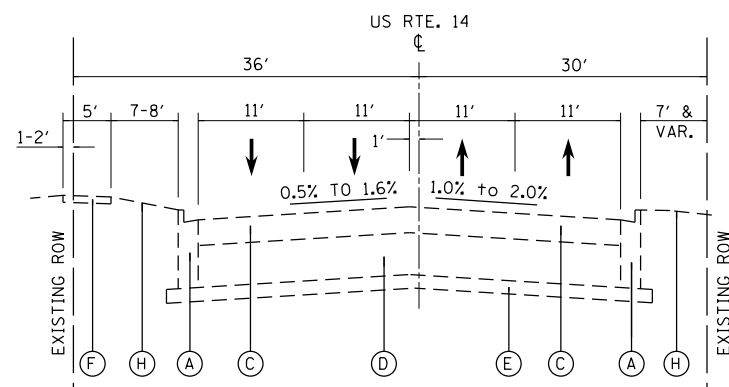
**EXISTING TYPICAL CROSS SECTION**  
**US 14 (NORTHWEST HWY)**  
 STA. 731+45 TO STA. 740+47.1



**EXISTING TYPICAL CROSS SECTION**  
**SEEGERS ROAD**  
 STA. 11+50 TO STA. 12+20



**EXISTING TYPICAL CROSS SECTION**  
**BROADWAY STREET**  
 STA. 102+00 TO STA. 105+03



**EXISTING TYPICAL CROSS SECTION**  
**US 14 (NORTHWEST HWY)**  
 STA. 740+47.1 TO STA. 746+75

**LEGEND:**

 2 1/2" HMA SURFACE REMOVAL

**EXISTING LEGEND**

- (A) EXISTING B-6.18 CURB AND GUTTER
- (B) EXISTING B-6.12 CURB AND GUTTER
- (C) EXISTING HOT-MIX ASPHALT PAVEMENT ±7"
- (D) EXISTING P.C.C. PAVEMENT 10"
- (E) EXISTING GRANULAR SUB-BASE 4"
- (F) EXISTING P.C.C. SIDEWALK
- (G) EXISTING SHARED-USE PATH
- (H) EXISTING LANDSCAPING

**NOTES:**

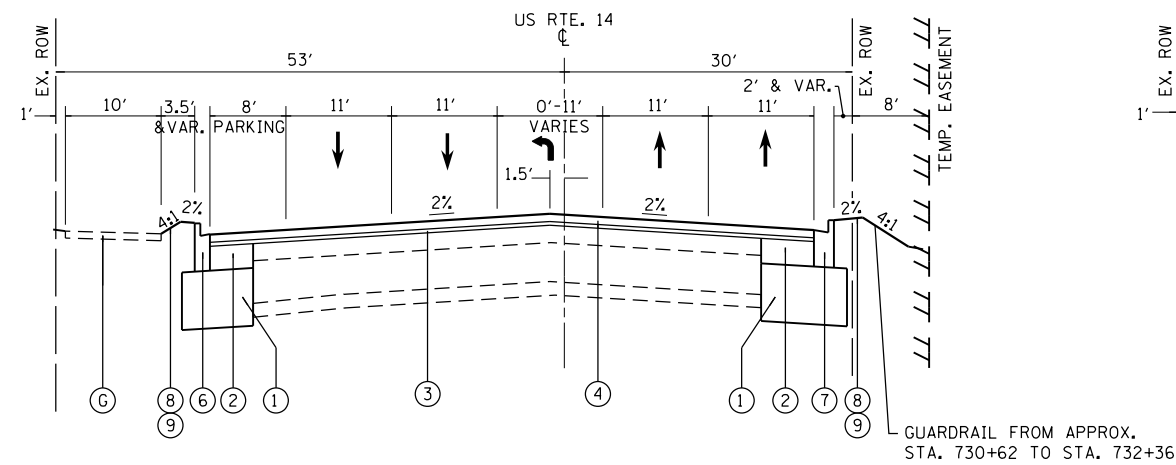
THE CONTRACTOR SHALL HAVE THE OPTION TO USE EITHER HMA OR PCC TEMPORARY PAVEMENT.  
 -HMA BINDER COURSE, IL-19.0, N50, 8"  
 SUBBASE GRANULAR MATERIAL, TYPE B, 4"  
 OR  
 -TEMPORARY PCC PAVEMENT, 8"  
 SUBBASE GRANULAR MATERIAL, TYPE B, 4"

PCC TEMPORARY PAVEMENT SHALL CONSIST OF CLASS PV CONCRETE MEETING THE REQUIREMENTS OF ART. 1020 OF THE STANDARD SPECIFICATIONS. TEMPORARY PCC PAVEMENT DOES NOT REQUIRE DOWEL BARS.

NOTE: THE CONTRACTOR SHALL MILL PRIOR TO PATCHING; PATCHING FOR DRAINAGE ITEMS SHALL BE CONSTRUCTED WHEN DRAINAGE ITEMS ARE INSTALLED.

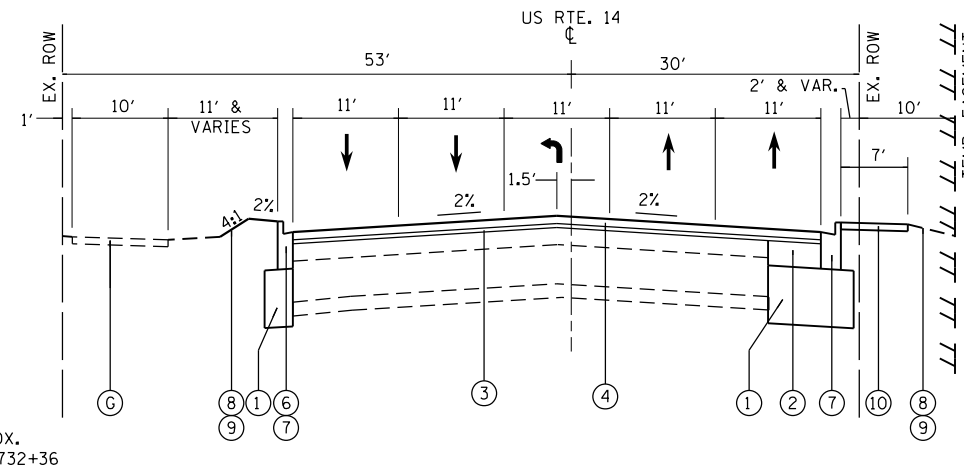
HOT-MIX ASPHALT MIXTURE REQUIREMENTS		QUALITY MANAGEMENT PROGRAM (QMP)
MIXTURE TYPE	PERCENT AIR VOIDS AT Ndes	
<b>HOT-MIX ASPHALT PAVEMENT WIDENING &amp; RESURFACING</b>		
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "E", N70 (IL 9.5 mm), 1 3/4"	4% @ 70 GYR.	OCP
POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"	3.5% @ 70 GYR.	QC/OA
HOT-MIX ASPHALT BASE COURSE WIDENING, 7 1/2" (HMA BINDER IL 19.0)	4% @ 70 GYR.	QC/OA
<b>PATCHING</b>		
CLASS D PATCH (HMA BINDER IL 19.0)	4% @ 70 GYR.	QC/OA
<b>DRIVEWAY PAVEMENT</b>		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL 9.5 mm), 2"	4% @ 50 GYR.	QC/OA
HOT-MIX ASPHALT BASE COURSE (HMA BINDER IL-19.0 mm), CE-8"	4% @ 50 GYR.	QC/OA
<b>TEMPORARY PAVEMENT</b>		
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 8"	4% @ 50 GYR.	QC/OA
QMP DESIGNATION: QUALITY CONTROL/QUALITY ASSURANCE (QC/OA); QUALITY CONTROL FOR PERFORMANCE (OCP); PAY FOR PERFORMANCE (PFP)		

1. THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN
2. THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS. FOR USE OF RECYCLED MATERIALS SEE DISTRICT ONE SPECIAL PROVISIONS.
3. QUALITY MANAGEMENT PROGRAM (QMP) IDENTIFIES THE PARTICULAR QUALITY CONTROL SPECIFICATION THAT APPLIES TO THE HMA MIXTURE.



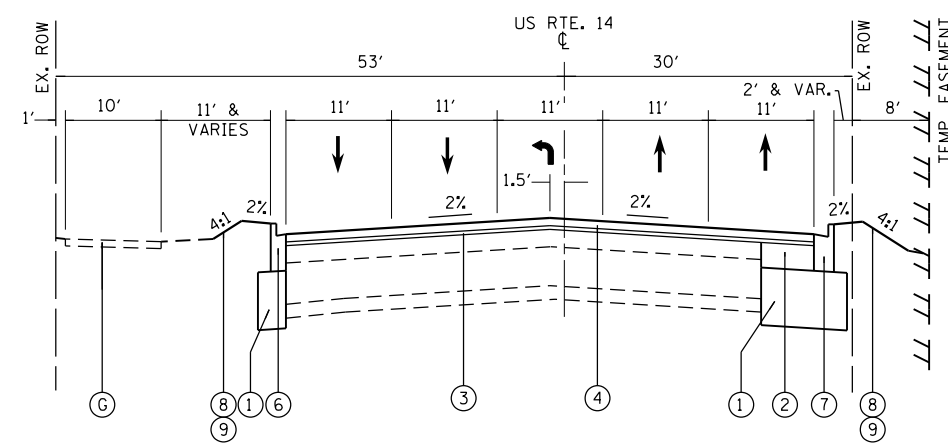
**PROPOSED TYPICAL CROSS SECTION  
US 14 (NORTHWEST HWY)**

STA. 731+45 TO STA. 734+27.8



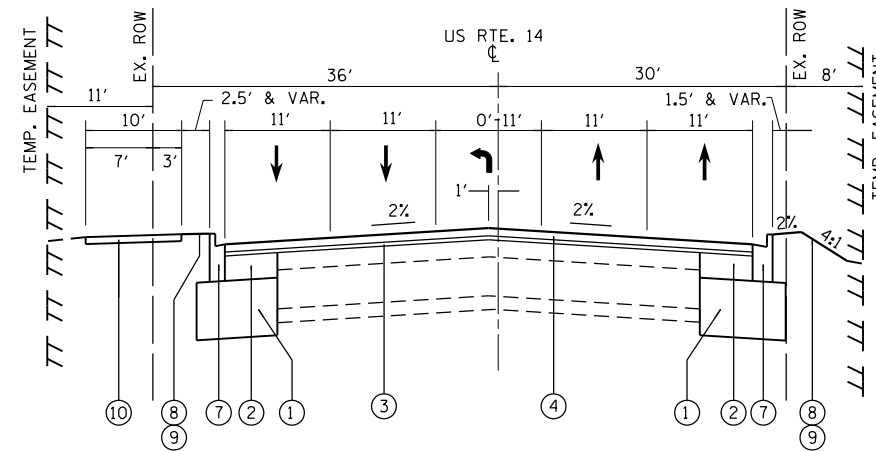
**PROPOSED TYPICAL CROSS SECTION  
US 14 (NORTHWEST HWY)**

STA. 736+61.6 TO STA. 737+47.4



**PROPOSED TYPICAL CROSS SECTION  
US 14 (NORTHWEST HWY)**

STA. 734+27.8 TO STA. 735+43.1



**PROPOSED TYPICAL CROSS SECTION  
US 14 (NORTHWEST HWY)**

STA. 737+47.4 TO STA. 740+47.1

**EXISTING LEGEND**

- (A) EXISTING B-6.18 CURB AND GUTTER
- (B) EXISTING B-6.12 CURB AND GUTTER
- (C) EXISTING HOT-MIX ASPHALT PAVEMENT ±7"
- (D) EXISTING P.C.C. PAVEMENT 10"
- (E) EXISTING GRANULAR SUB-BASE 4"
- (F) EXISTING P.C.C. SIDEWALK
- (G) EXISTING SHARED-USE PATH
- (H) EXISTING LANDSCAPING

**PROPOSED LEGEND**

- (1) PROPOSED AGGREGATE SUBGRADE IMPROVEMENT, 12"
- (2) PROPOSED HOT-MIX ASPHALT BASE COURSE WIDENING, 7 1/2"
- (3) PROPOSED POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"
- (4) PROPOSED POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "E", N70, 1 3/4"
- (5) PROPOSED COMBINATION CONCRETE CURB AND GUTTER, TYPE M-4.12
- (6) PROPOSED COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
- (7) PROPOSED COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18
- (8) PROPOSED TOPSOIL FURNISH AND PLACE, 4"
- (9) PROPOSED SODDING, SALT TOLLERANT
- (10) PROPOSED PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH

**NOTES:**

PROPOSED AGGREGATE SUBGRADE IMPROVEMENT 12" IS TO EXTEND 1' BEHIND THE PROPOSED CONCRETE CURB AND GUTTER.

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Default	PLOT DATE = 11/3/2016	DATE - 10/11/2016	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>TYPICAL SECTIONS U.S. ROUTE 14 AT BROADWAY STREET</b>			
SCALE: NTS	SHEET 2	OF 3 SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	87-Y-N	COOK	102	20
CONTRACT NO. 60J39			ILLINOIS FED. AID PROJECT	



EARTHWORK SCHEDULE - US 14 ( NORTHWEST HIGHWAY)

STATION	STATION	EARTH EXCAVATION ( 20200100)	UNSUITABLE MATERIAL ( 20201200)	EXCAVATION TO BE USED IN EMBANKMENT ADJUSTED FOR SHRINKAGE	EMBANKMENT	EARTHWORK BALANCE (+/-) (+) = WASTE (-) = SHORTAGE
		CU YD		CU YD	CU YD	CU YD
731+50.00	732+00.00	9	7	8	0	8
732+00.00	732+50.00	18	10	15	4	11
732+50.00	733+00.00	30	11	26	7	19
733+00.00	733+50.00	40	13	34	8	26
733+50.00	734+00.00	48	14	41	9	32
734+00.00	734+50.00	37	11	31	10	21
734+50.00	735+00.00	28	9	24	10	14
735+00.00	735+50.00	32	9	27	8	19
737+00.00	737+50.00	46	21	39	16	23
737+50.00	738+00.00	46	20	39	17	22
738+00.00	739+00.00	38	13	32	11	21
739+00.00	739+50.00	26	10	22	5	17
739+50.00	740+00.00	17	10	14	2	12
RADIUS WIDENING (LT)		33	15	28	0	28
RADIUS WIDENING (RT)		47	20	40	0	40
BROADWAY ST. ADA RAMPS		24	23	21	6	15
SEEGERS RD. ADA RAMPS		6	0	5	1	4
US 14 BUS STOP (EB)		1	13	1	20	-19
US 14 BUS STOP (WB)		1	3	1	0	1
BROADWAY ST. BUS STOP		1	4	1	0	1
BROADWAY ST. ADA RAMPS		1	1	1	0	1
YALE CT. ADA RAMPS		1	0	1	0	1
US 14 TOTAL		531	386*	451	133	318

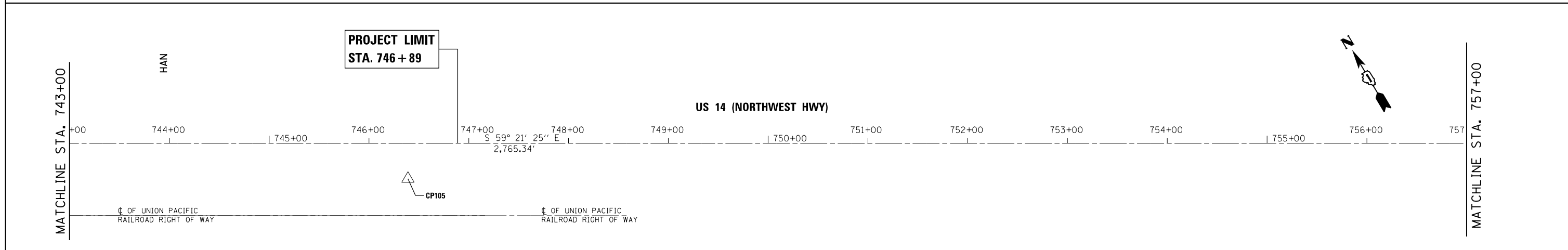
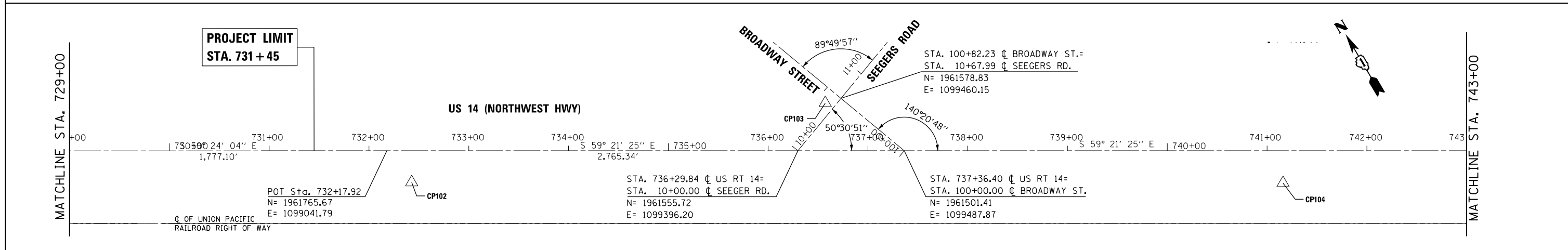
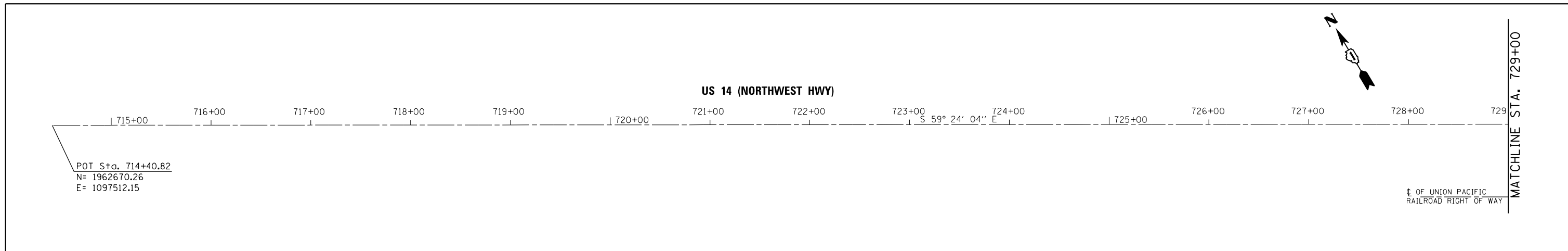
NOTE: 15% SHRINKAGE FACTOR  
 NOTE: ASSUME TOP 6" OF TOPSOIL IN UNDISTURBED AREAS TO BE UNSUITABLE  
 \*ADDITIONAL QUANTITY IS FOR POSSIBLE UNDERCUTS TO BE DETERMINED IN THE FIELD



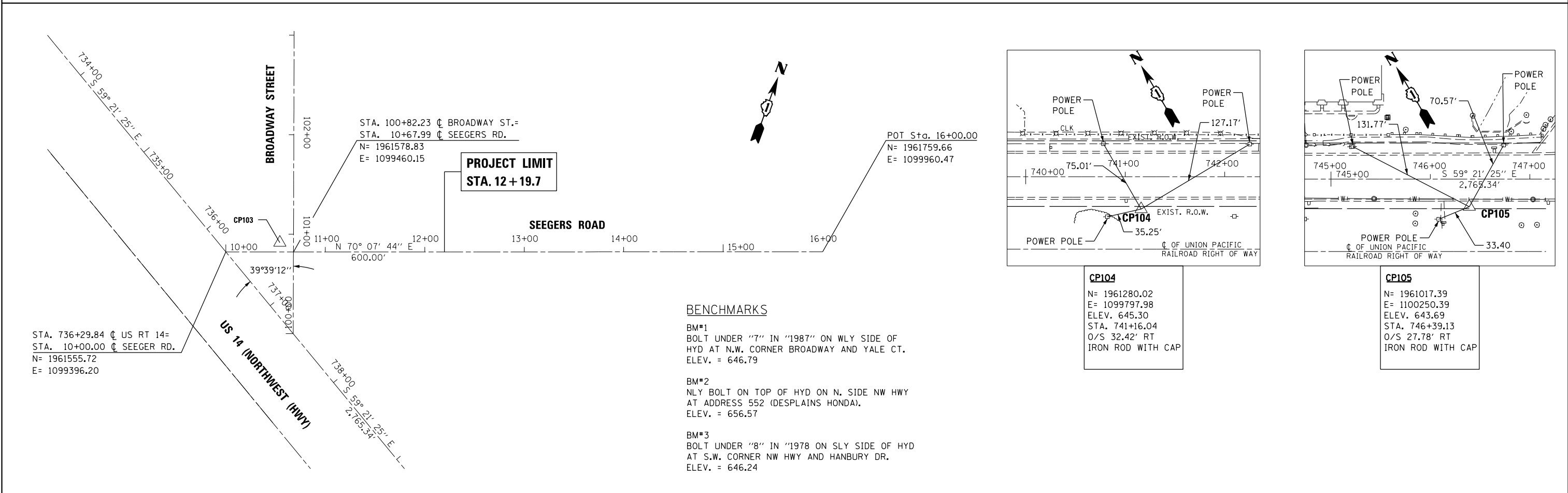
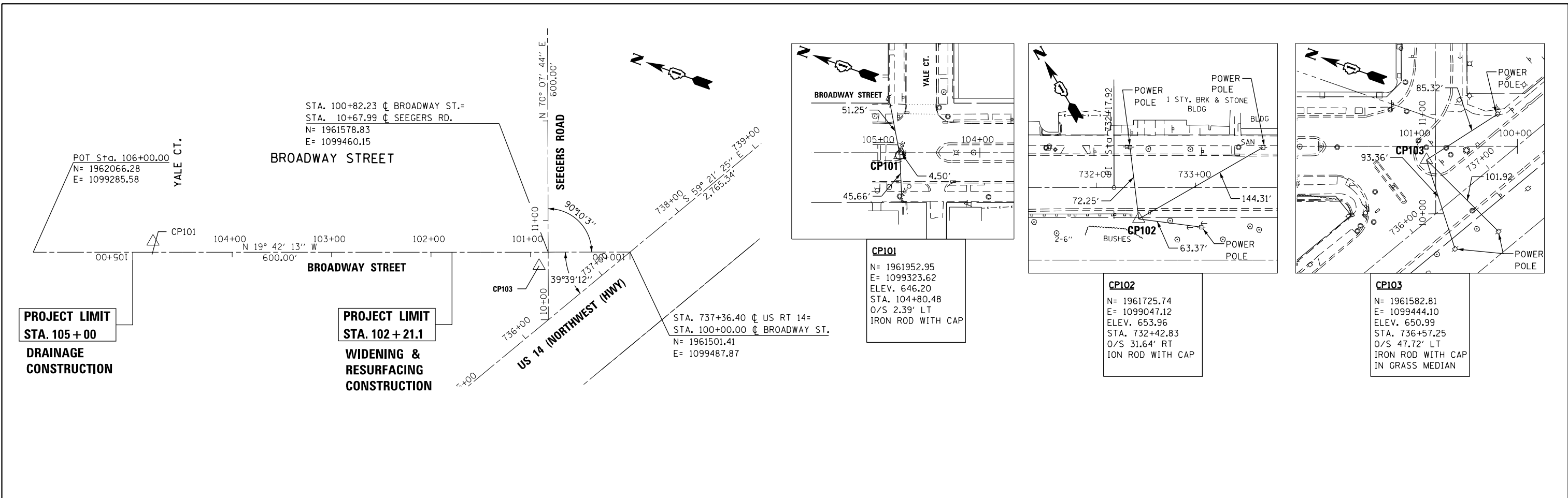
CITY OF DES PLAINES UTILITY ADJUSTMENT SCHEDULE

STATION	FIRE HYDRANTS TO BE REMOVED AND REPLACED ( 56400510)	MANHOLES TO BE ADJUSTED ( 60255500)	MANHOLES TO BE RECONSTRUCTED ( 60257900)	VALVE VAULTS TO BE ADJUSTED ( 60265700)	VALVE VAULTS TO BE RECONSTRUCTED ( 60266100)	FRAMES AND LIDS TO BE ADJUSTED ( SPECIAL ) ( X6030310)
	EACH	EACH	EACH	EACH	EACH	EACH
STAGE 1						
US 14						
735+58				1		
735+64		1				
736+60						1
BROADWAY ST.						
101+91	1			1		
101+00						
STAGE 2						
US 14						
733+43		1				
736+80				1		
BROADWAY ST.						
101+28			1			
104+32		1				
104+41					1	
STAGE 3						
BROADWAY ST.						
101+81				1		
POST STAGE						
US 14						
735+77						1
735+97						1
743+78				1		
743+87						1
745+43						1
SEEGERS RD.						
11+03						1
TOTAL	1	3	1	5	1	7











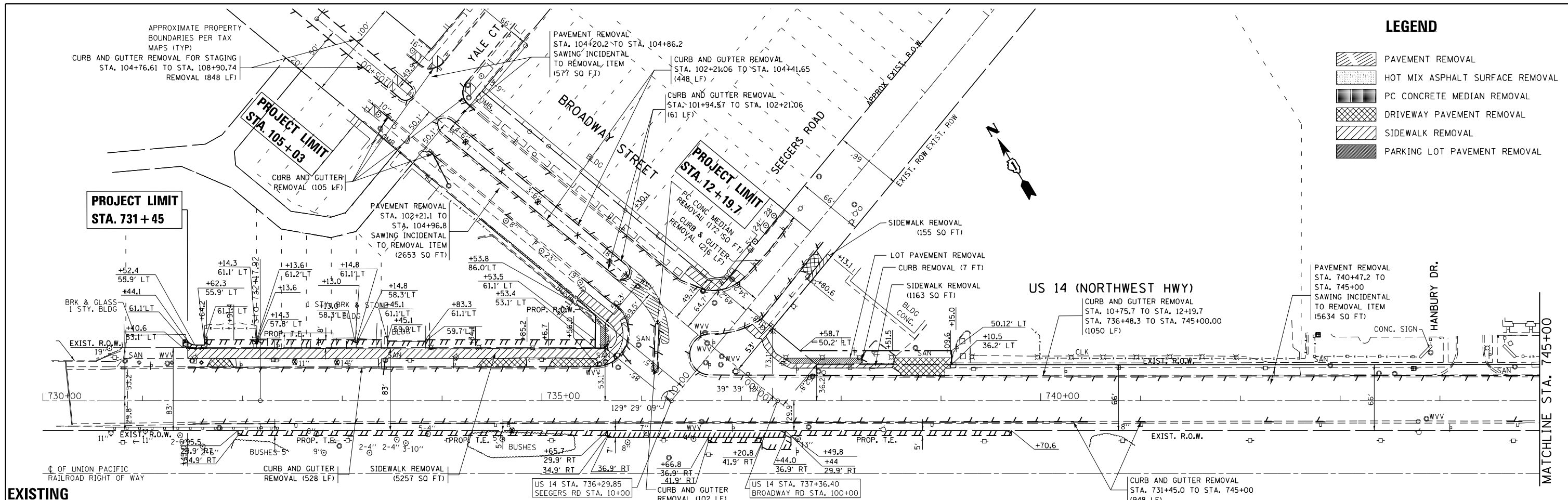
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Default		CHECKED -	REVISED -			CONTRACT NO. 60J39				
		DATE -	REVISED -			ILLINOIS FED. AID PROJECT				
					SCALE: 1" = 50'	SHEET 1 OF 2 SHEETS		STA. 714+40.82 TO STA. 759+83.25		



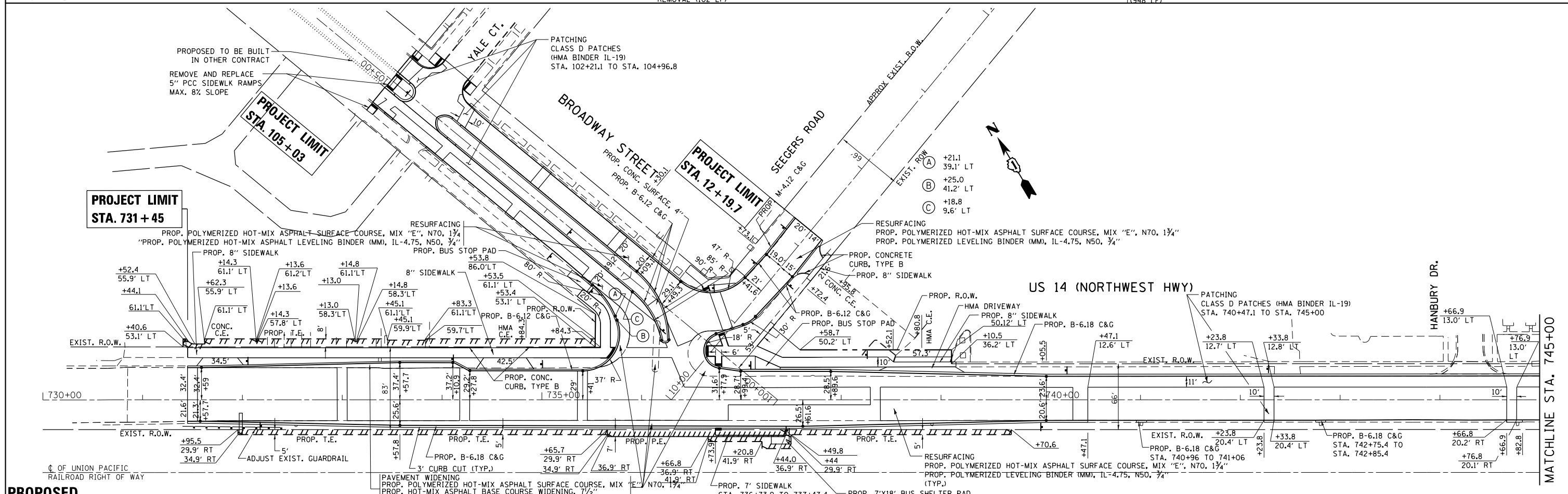
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Default		CHECKED -	REVISED -		SCALE: 1" = 50'	SHEET 2	OF 2 SHEETS	STA. 745+00.00	TO STA. 748+00.00	COOK	102	26
		DATE -	REVISED -		CONTRACT NO. 60J39							
					ILLINOIS FED. AID PROJECT							

**LEGEND**

-  PAVEMENT REMOVAL
-  HOT MIX ASPHALT SURFACE REMOVAL
-  PC CONCRETE MEDIAN REMOVAL
-  DRIVEWAY PAVEMENT REMOVAL
-  SIDEWALK REMOVAL
-  PARKING LOT PAVEMENT REMOVAL



**EXISTING**



**PROPOSED**

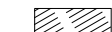
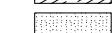



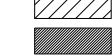
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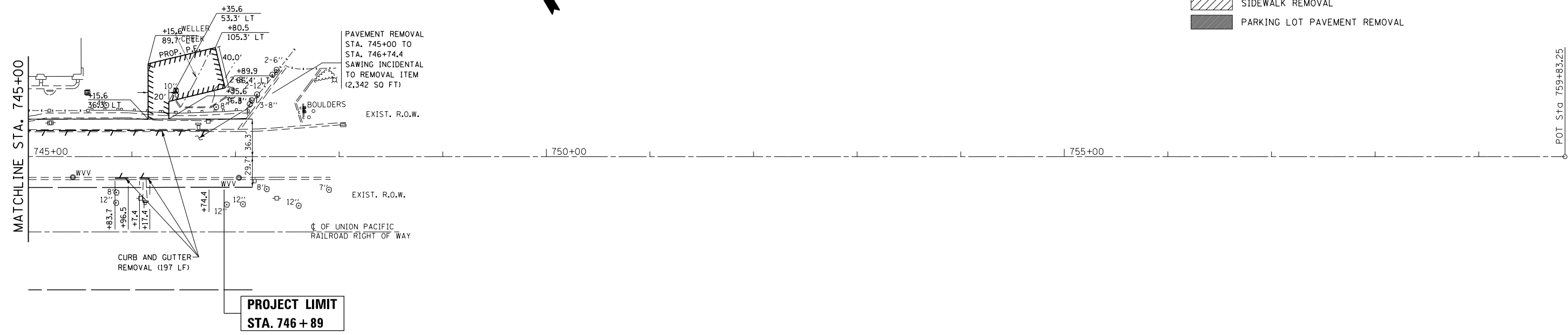
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>EXISTING &amp; PROPOSED ROADWAY PLAN</b>	
<b>U.S. ROUTE 14 AT BROADWAY STREET</b>	
SCALE: 1" = 50'	SHEET 1 OF 3 SHEETS STA. 730+00.00 TO STA. 745+00.00

F.A.U. R.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	87-Y-N	COOK	102	27
CONTRACT NO. 60J39			ILLINOIS FED. AID PROJECT	

**LEGEND**

-  PAVEMENT REMOVAL
-  HOT MIX ASPHALT SURFACE REMOVAL
-  PC CONCRETE MEDIAN REMOVAL
-  DRIVEWAY PAVEMENT REMOVAL
-  SIDEWALK REMOVAL
-  PARKING LOT PAVEMENT REMOVAL



**EXISTING**



**PROPOSED**

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

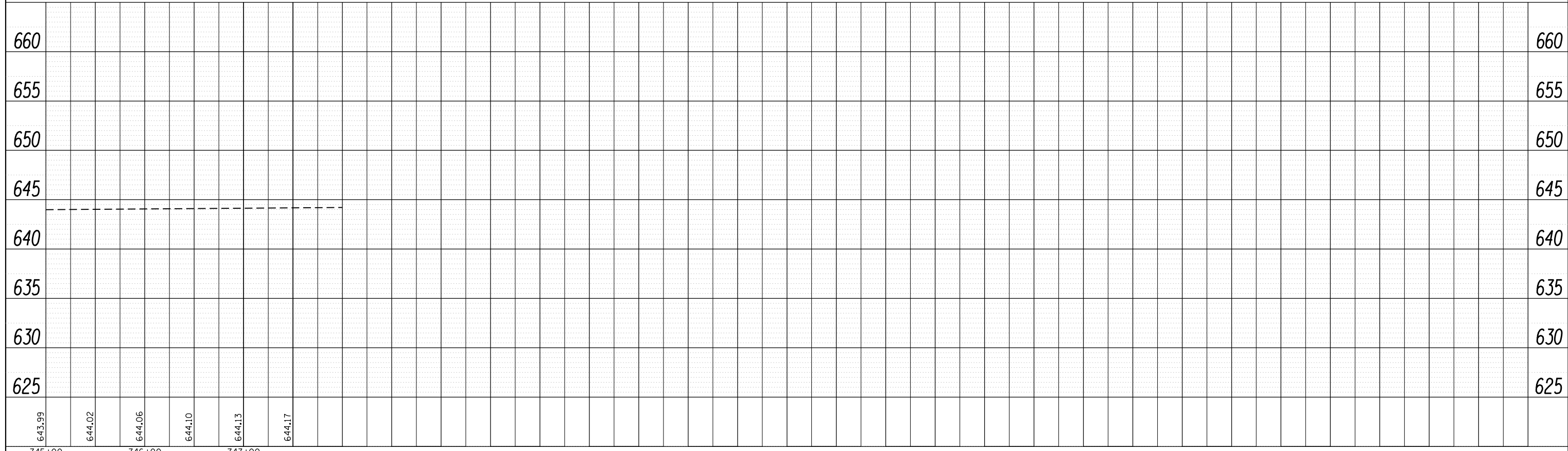
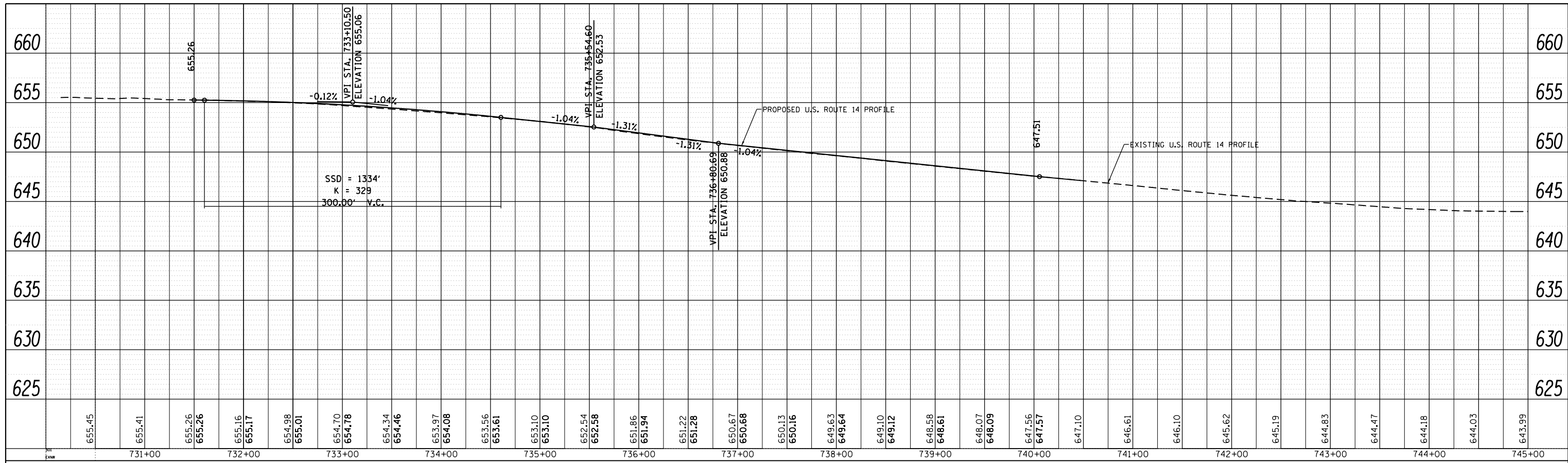
**EXISTING & PROPOSED ROADWAY PLAN  
U.S. ROUTE 14 AT BROADWAY STREET**

SCALE: 1" = 50' SHEET 2 OF 3 SHEETS STA. 745+00.00 TO STA. 748+00.00

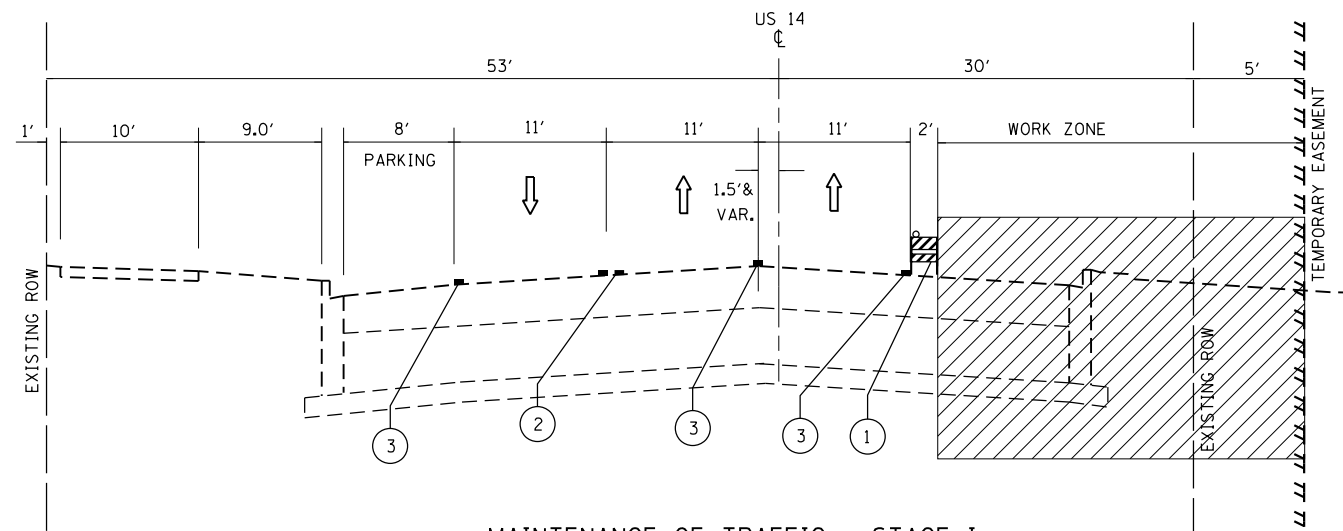
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	87-Y-N	COOK	102	28
CONTRACT NO. 60J39				
ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	BY	DATE
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	ALIGNED		
	CHECKED		
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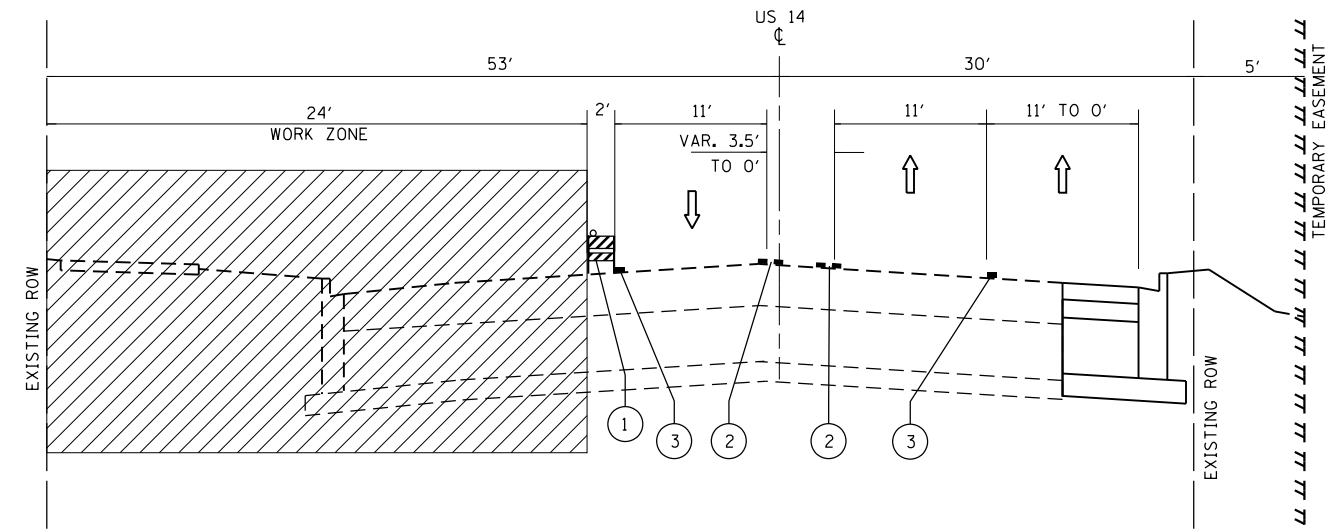
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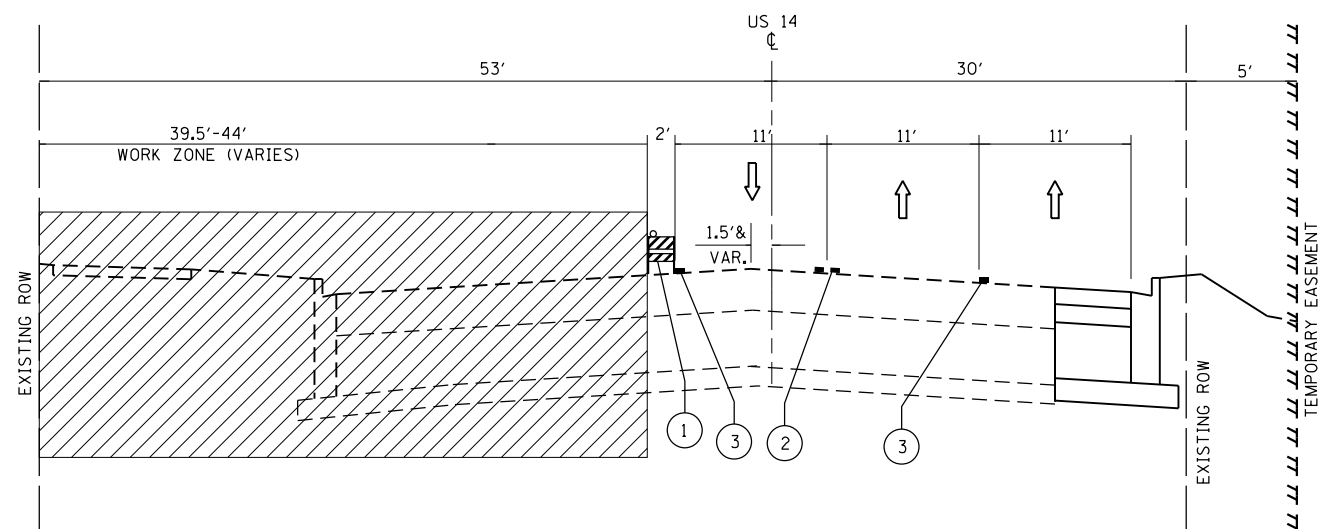
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PLOT DATE = 11/3/2016						ILLINOIS FED. AID PROJECT				
Default				SCALE: 1" = 50'		SHEET 3 OF 3 SHEETS		STA. 730+00.00 TO STA. 748+00.00		



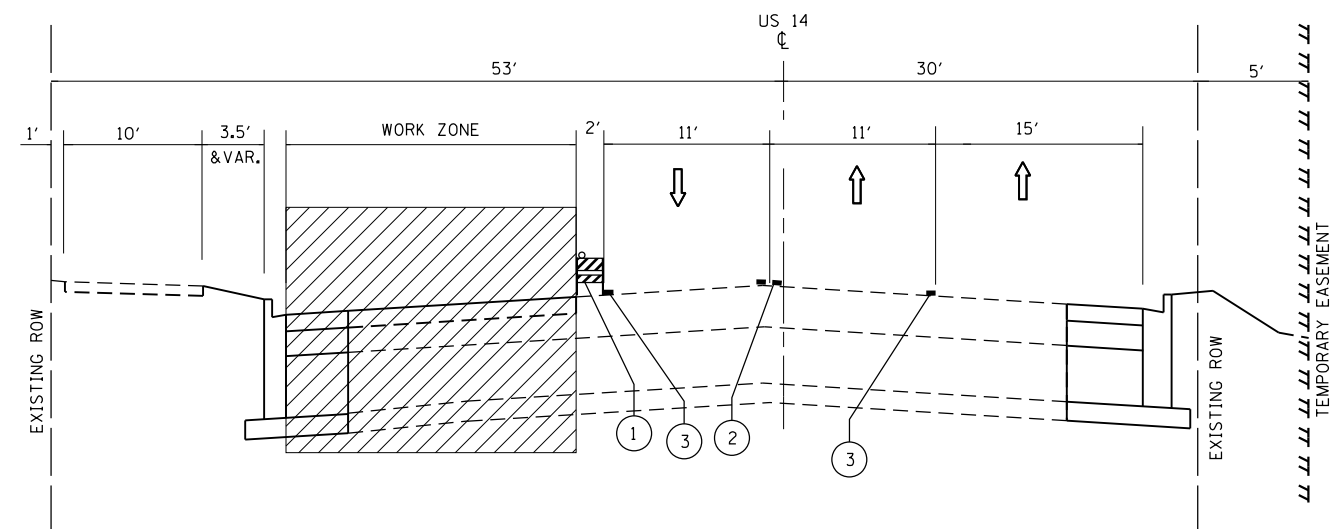
**MAINTENANCE OF TRAFFIC - STAGE I**  
**US 14 (NORTHWEST HWY)**  
 STA. 731+45 TO STA. 746+75



**MAINTENANCE OF TRAFFIC - STAGE II**  
**US 14 (NORTHWEST HWY)**  
 STA. 736+00 TO STA. 746+75



**MAINTENANCE OF TRAFFIC - STAGE II**  
**US 14 (NORTHWEST HWY)**  
 STA. 731+45 TO STA. 736+00



**MAINTENANCE OF TRAFFIC - STAGE III**  
**US 14 (NORTHWEST HWY)**  
 STA. 731+45 TO STA. 739+37

NOTE: SEE SHEET 3 FOR NOTES AND LEGEND

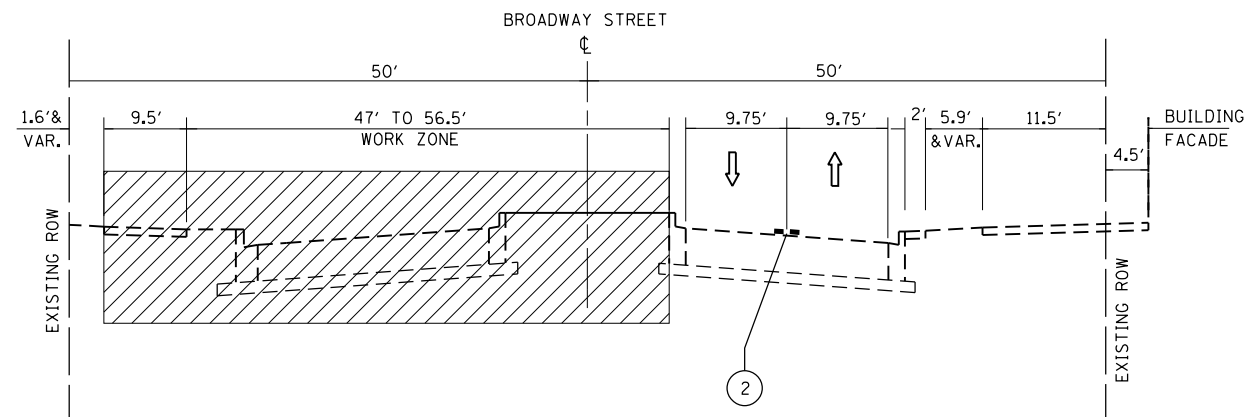
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**MOT TYPICAL SECTIONS - US ROUTE 14**  
**US RTE. 14 (NORTHWEST HWY.) AT BROADWAY STREET**

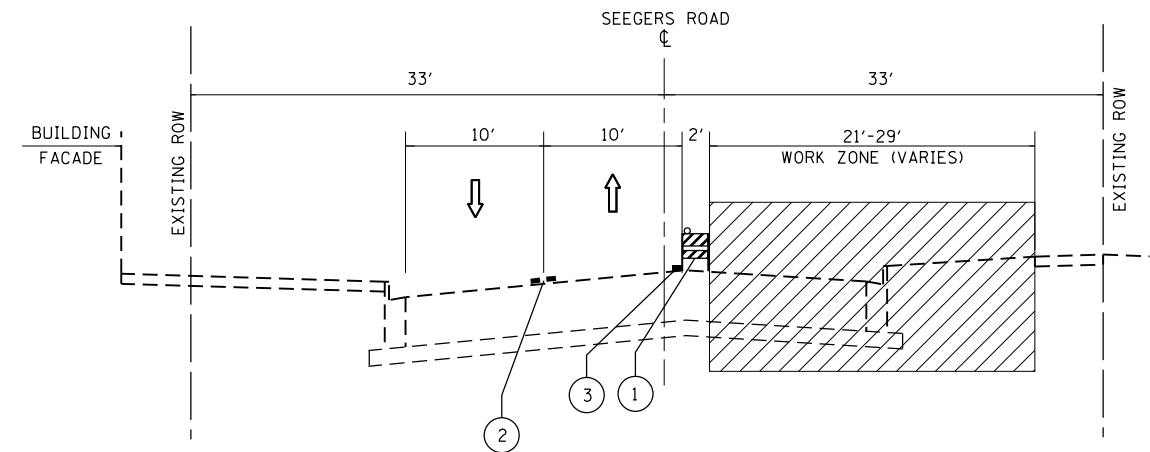
SCALE: N.T.S. SHEET 1 OF 3 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	87-Y-N	COOK	102	30
CONTRACT NO. 60J39				
ILLINOIS FED. AID PROJECT				



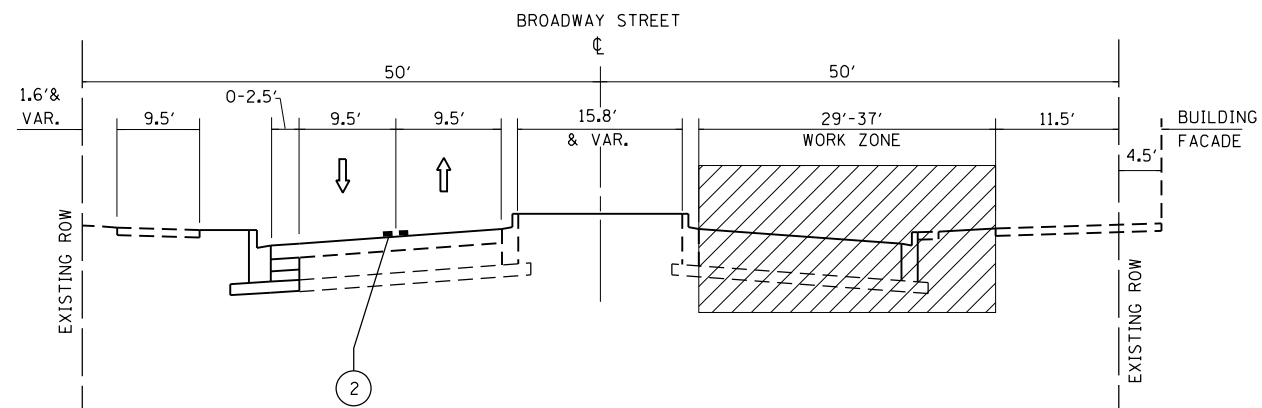
**MAINTENANCE OF TRAFFIC - STAGE I**  
**BROADWAY STREET**

STA. 102+00 TO STA. 105+00



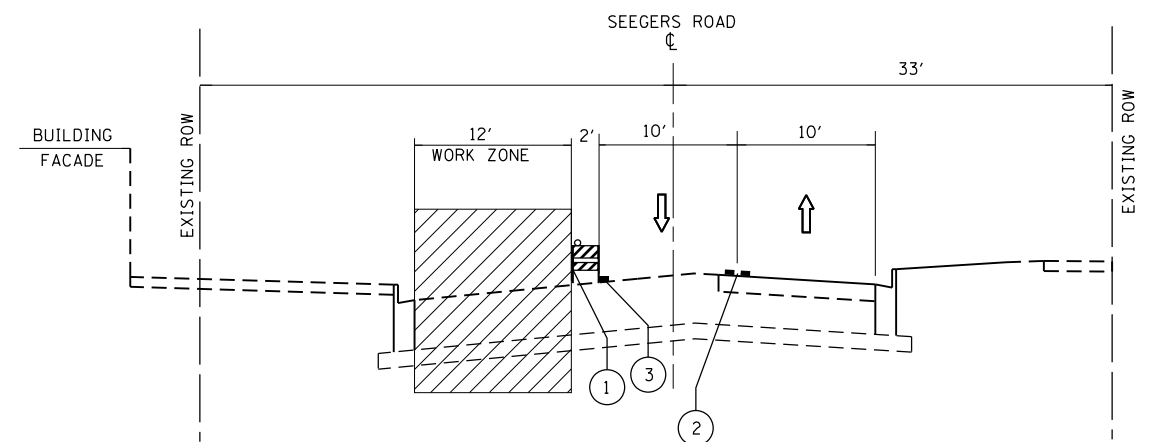
**MAINTENANCE OF TRAFFIC - STAGE I**  
**SEEGERS ROAD**

STA. 11+50 TO STA. 12+20



**MAINTENANCE OF TRAFFIC - STAGE II**  
**BROADWAY STREET**

STA. 102+00 TO STA. 105+00



**MAINTENANCE OF TRAFFIC - STAGE II**  
**SEEGERS ROAD**

STA. 11+50 TO STA. 12+20

NOTE: SEE SHEET 3 FOR NOTES AND LEGEND

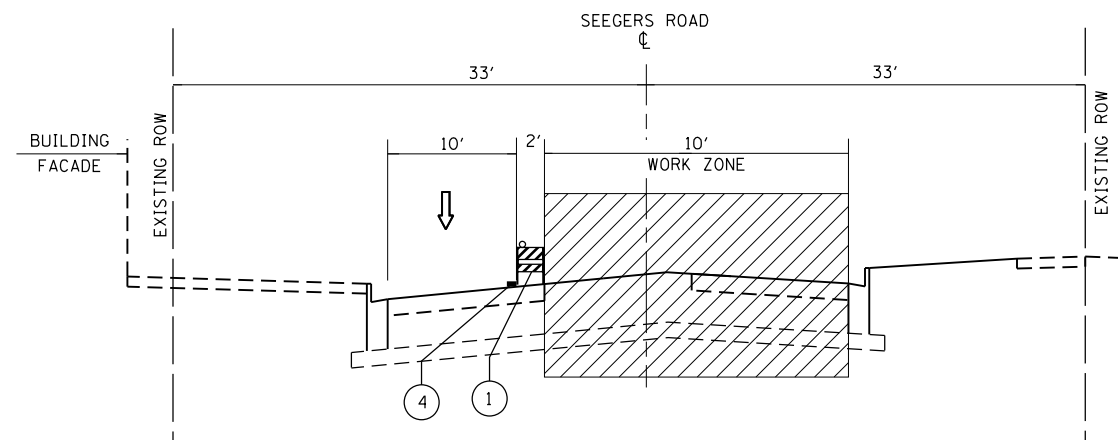
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	PLOT DATE = 11/3/2016		

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**MOT TYPICAL SECTIONS - US ROUTE 14 & BROADWAY STREET**  
**US RTE. 14 (NORTHWEST HWY.) AT BROADWAY STREET**

SCALE: N.T.S. SHEET 2 OF 3 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	87-Y-N	COOK	102	31
CONTRACT NO. 60J39				
ILLINOIS FED. AID PROJECT				



**MAINTENANCE OF TRAFFIC - STAGE III**  
**SEEGERS ROAD**  
 STA. 11+50 TO STA. 12+20

**LEGEND**

- ① DRUMS WITH STEADY BURN MONO-DIRECTIONAL LIGHT
- ② TEMPORARY PAVEMENT MARKING - LINE 4" (DOUBLE YELLOW 11" C-C W/ TEMP. RAISED REFLECTIVE PAVEMENT MARKERS)
- ③ TEMPORARY PAVEMENT MARKING - LINE 4" (WHITE)
- ④ TEMPORARY PAVEMENT MARKING - LINE 4" (YELLOW)
- ← DIRECTION OF TRAFFIC
- ▨ WORK ZONE

**NOTES**

1. PRIOR TO INSTALLING POST MOUNTED SIGNS, THE CONTRACTOR SHALL CONTACT J.U.L.I.E.
2. SEE STAGING PLAN AND STANDARD 701701 FOR ADDITIONAL INFORMATION.
3. LOCATION OF "DRIVEWAY ENTRANCE" SIGNS PER STANDARD TC-26 SHALL BE DETERMINED BY THE ENGINEER.

FILE NAME =	USER NAME = bartonrw	DESIGNED - RWB	REVISED -
pw:\IL\084EBIDINTEG\illinois.gov\PWIDOT\Documents\IDOT Offices\District 1\Projects\P1439\Drawings\Design\RWB\109-shr-typical.MOT	DRAWN	CHECKED -	REVISED -
Default	PLOT DATE = 11/3/2016	DATE - 10/21/2016	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**MOT TYPICAL SECTIONS - SEEGERS ROAD**  
**US RTE. 14 (NORTHWEST HWY.) AT BROADWAY STREET**

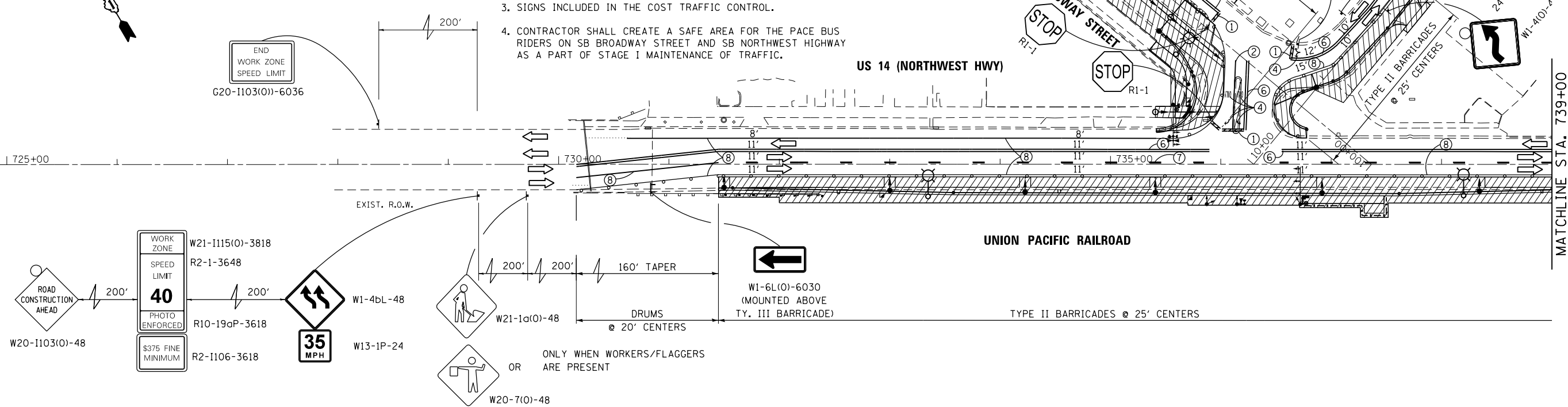
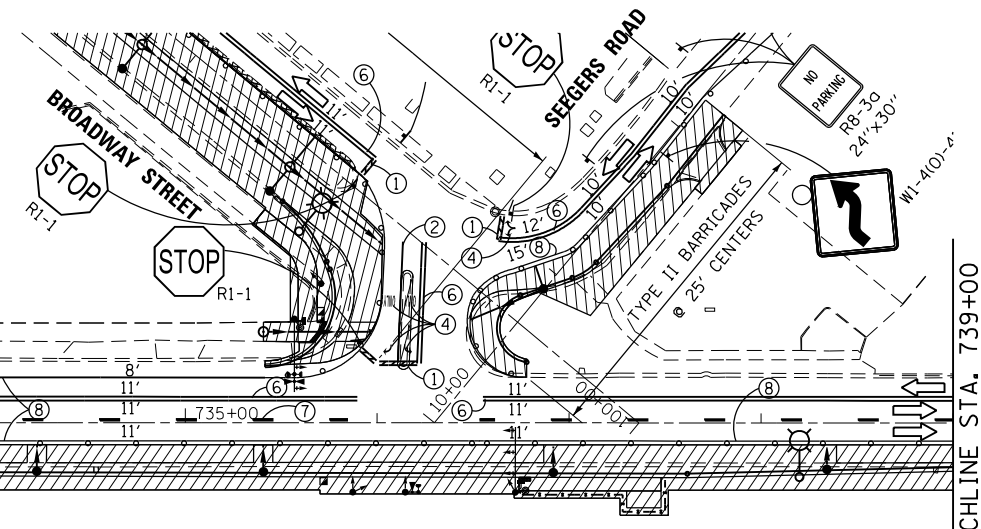
SCALE: N.T.S. SHEET 3 OF 3 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	87-Y-N	COOK	102	32
CONTRACT NO. 60J39				
ILLINOIS FED. AID PROJECT				



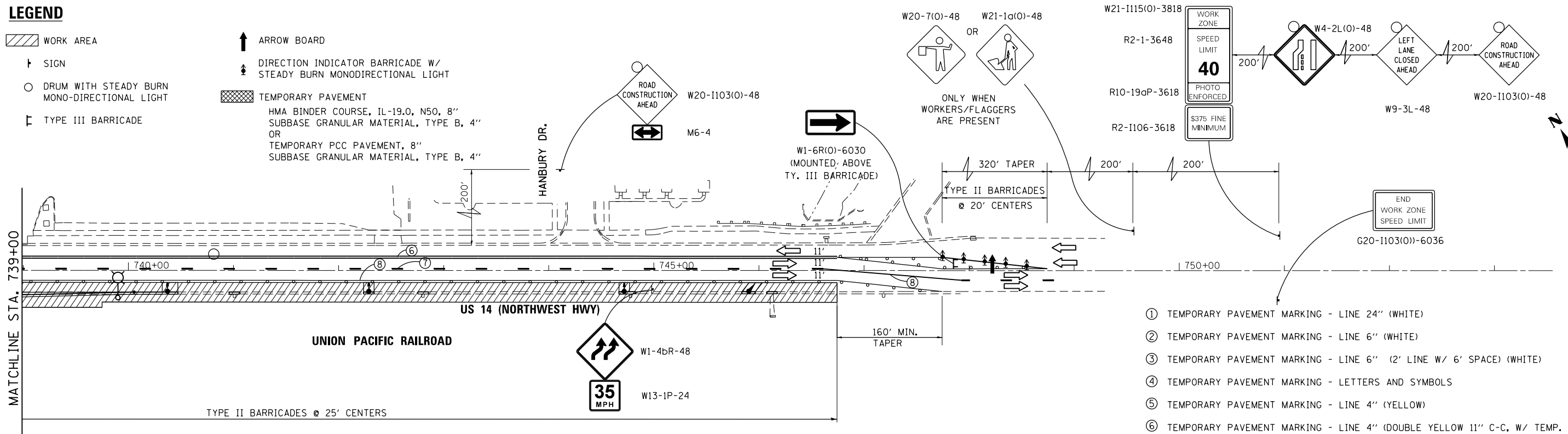
**NOTES**

1. PRIOR TO INSTALLING POST MOUNTED SIGNS, THE CONTRACTOR SHALL CONTACT J.U.L.I.E.
2. SEE STANDARD 701701 FOR ADDITIONAL INFORMATION.
3. SIGNS INCLUDED IN THE COST TRAFFIC CONTROL.
4. CONTRACTOR SHALL CREATE A SAFE AREA FOR THE PACE BUS RIDERS ON SB BROADWAY STREET AND SB NORTHWEST HIGHWAY AS A PART OF STAGE I MAINTENANCE OF TRAFFIC.



**LEGEND**

- WORK AREA
- SIGN
- DRUM WITH STEADY BURN MONO-DIRECTIONAL LIGHT
- TYPE III BARRICADE
- ARROW BOARD
- DIRECTION INDICATOR BARRICADE W/ STEADY BURN MONODIRECTIONAL LIGHT
- TEMPORARY PAVEMENT
  - HMA BINDER COURSE, IL-19.0, N50, 8"
  - SUBBASE GRANULAR MATERIAL, TYPE B, 4"
  - OR
  - TEMPORARY PCC PAVEMENT, 8"
  - SUBBASE GRANULAR MATERIAL, TYPE B, 4"



- ① TEMPORARY PAVEMENT MARKING - LINE 24" (WHITE)
- ② TEMPORARY PAVEMENT MARKING - LINE 6" (WHITE)
- ③ TEMPORARY PAVEMENT MARKING - LINE 6" (2' LINE W/ 6' SPACE) (WHITE)
- ④ TEMPORARY PAVEMENT MARKING - LETTERS AND SYMBOLS
- ⑤ TEMPORARY PAVEMENT MARKING - LINE 4" (YELLOW)
- ⑥ TEMPORARY PAVEMENT MARKING - LINE 4" (DOUBLE YELLOW 11" C-C, W/ TEMP. RAISED REFLECTIVE PAVEMENT MARKERS)
- ⑦ TEMPORARY PAVEMENT MARKING - LINE 4" (10' LINE W/30' SPACE) (WHITE)
- ⑧ TEMPORARY PAVEMENT MARKING - LINE 4" (WHITE)

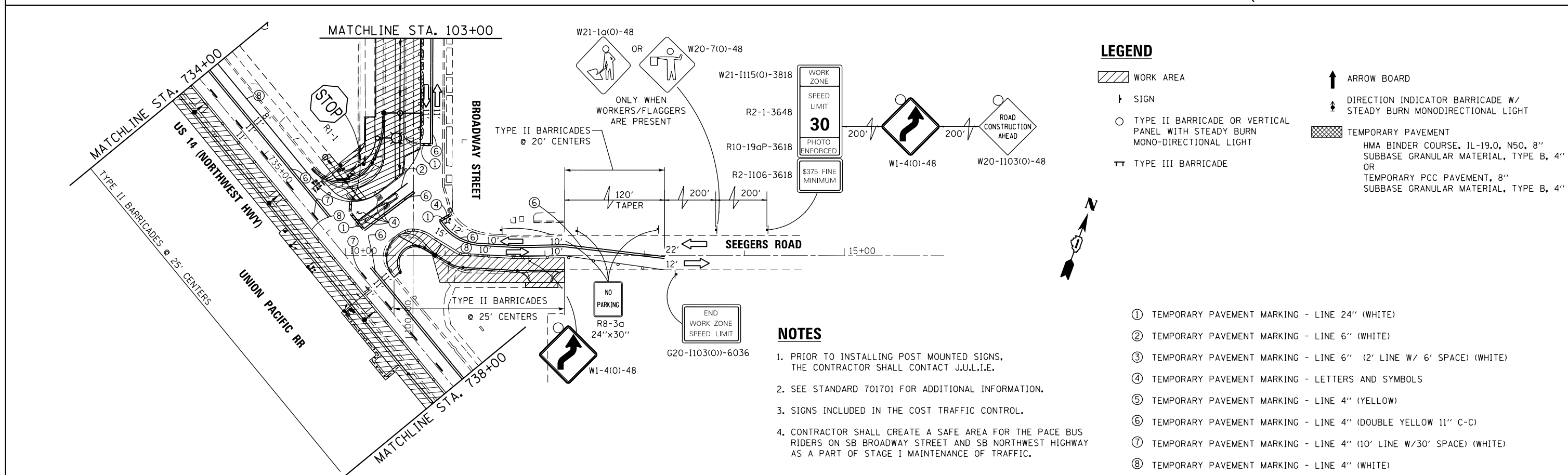
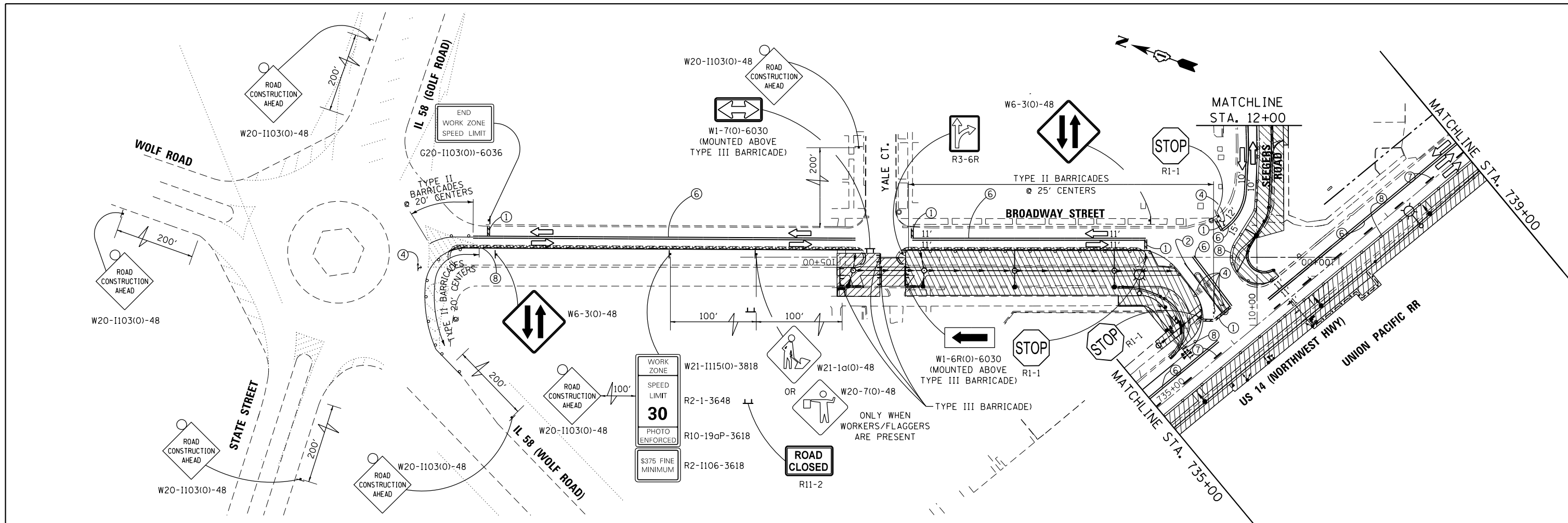
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Default	PLOT DATE = 1/19/2017	DATE - 10/21/2016	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**STAGING PLAN - STAGE I  
U.S. ROUTE 14 AT BROADWAY STREET**

SCALE: 1" = 50' SHEET 1 OF 6 SHEETS STA. 730+00.00 TO STA. 745+00.00

F.A.U. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	87-Y-N	COOK	102	33
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60J39	



**LEGEND**

- WORK AREA
- SIGN
- TYPE II BARRICADE OR VERTICAL PANEL WITH STEADY BURN MONO-DIRECTIONAL LIGHT
- TEMPORARY PAVEMENT  
HMA BINDER COURSE, IL-19.0, N50, 8" SUBBASE GRANULAR MATERIAL, TYPE B, 4" OR TEMPORARY PCC PAVEMENT, 8" SUBBASE GRANULAR MATERIAL, TYPE B, 4"
- TYPE III BARRICADE
- ARROW BOARD
- DIRECTION INDICATOR BARRICADE W/ STEADY BURN MONODIRECTIONAL LIGHT

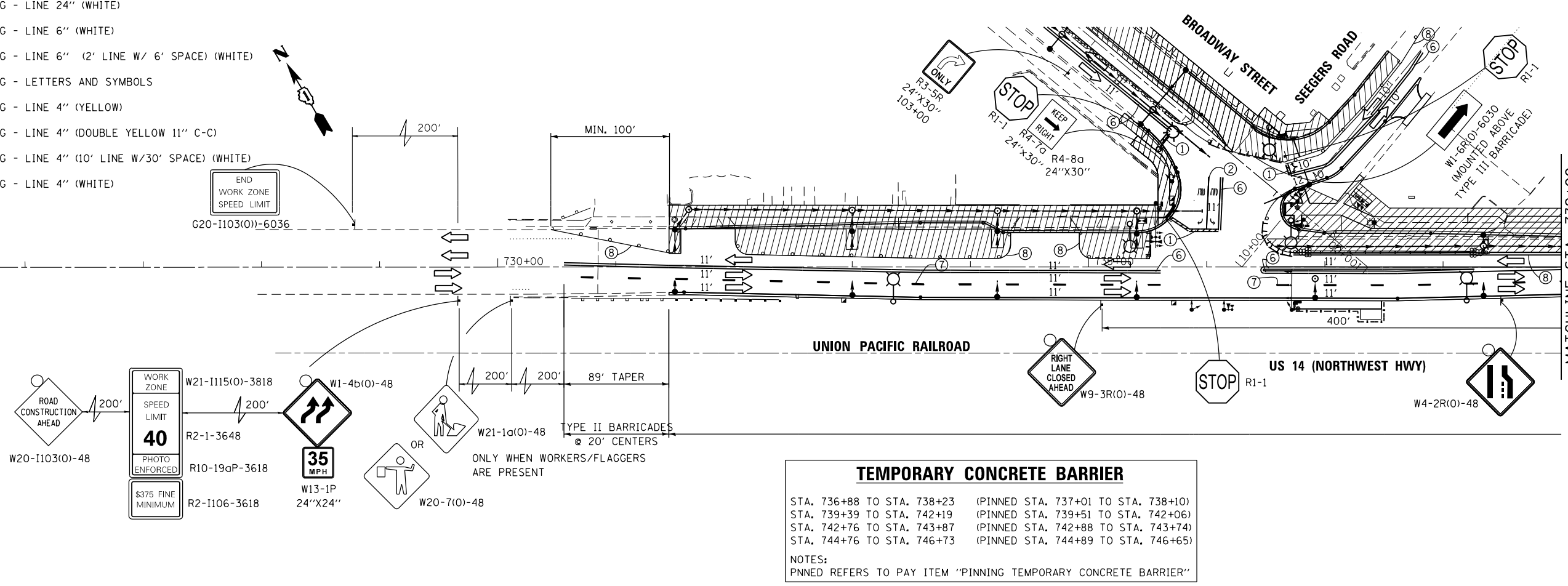
**NOTES**

1. PRIOR TO INSTALLING POST MOUNTED SIGNS, THE CONTRACTOR SHALL CONTACT J.U.L.I.E.
2. SEE STANDARD 701701 FOR ADDITIONAL INFORMATION.
3. SIGNS INCLUDED IN THE COST TRAFFIC CONTROL.
4. CONTRACTOR SHALL CREATE A SAFE AREA FOR THE PACE BUS RIDERS ON SB BROADWAY STREET AND SB NORTHWEST HIGHWAY AS A PART OF STAGE I MAINTENANCE OF TRAFFIC.

- ① TEMPORARY PAVEMENT MARKING - LINE 24" (WHITE)
- ② TEMPORARY PAVEMENT MARKING - LINE 6" (WHITE)
- ③ TEMPORARY PAVEMENT MARKING - LINE 6" (2' LINE W/ 6' SPACE) (WHITE)
- ④ TEMPORARY PAVEMENT MARKING - LETTERS AND SYMBOLS
- ⑤ TEMPORARY PAVEMENT MARKING - LINE 4" (YELLOW)
- ⑥ TEMPORARY PAVEMENT MARKING - LINE 4" (DOUBLE YELLOW 11" C-C)
- ⑦ TEMPORARY PAVEMENT MARKING - LINE 4" (10' LINE W/30' SPACE) (WHITE)
- ⑧ TEMPORARY PAVEMENT MARKING - LINE 4" (WHITE)

FILE NAME =	USER NAME = bartonr	DESIGNED - RWB	REVISED - RWB 12/7/2016	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>STAGING PLAN - STAGE I U.S. ROUTE 14 AT BROADWAY STREET</b>	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw\ill084EBIDINTEG.illinois.gov\PI\DOT\Documents\DOT Offices\District 1\Projects\PI4390\Drawings\Design\RWB\909-shr-staging-2	PLotted SCALE = 100.0000' / in.	CHECKED -	REVISED -			3512	87-Y-N	COOK	102	34
Default	PLotted DATE = 1/19/2017	DATE - 10/21/2016	REVISED -			CONTRACT NO. 60J39			ILLINOIS FED. AID PROJECT	
						SCALE: 1" = 50'	SHEET 2 OF 6 SHEETS	STA. 100+00.00 TO STA. 105+00.00		

- ① TEMPORARY PAVEMENT MARKING - LINE 24" (WHITE)
- ② TEMPORARY PAVEMENT MARKING - LINE 6" (WHITE)
- ③ TEMPORARY PAVEMENT MARKING - LINE 6" (2' LINE W/ 6' SPACE) (WHITE)
- ④ TEMPORARY PAVEMENT MARKING - LETTERS AND SYMBOLS
- ⑤ TEMPORARY PAVEMENT MARKING - LINE 4" (YELLOW)
- ⑥ TEMPORARY PAVEMENT MARKING - LINE 4" (DOUBLE YELLOW 11" C-C)
- ⑦ TEMPORARY PAVEMENT MARKING - LINE 4" (10' LINE W/30' SPACE) (WHITE)
- ⑧ TEMPORARY PAVEMENT MARKING - LINE 4" (WHITE)



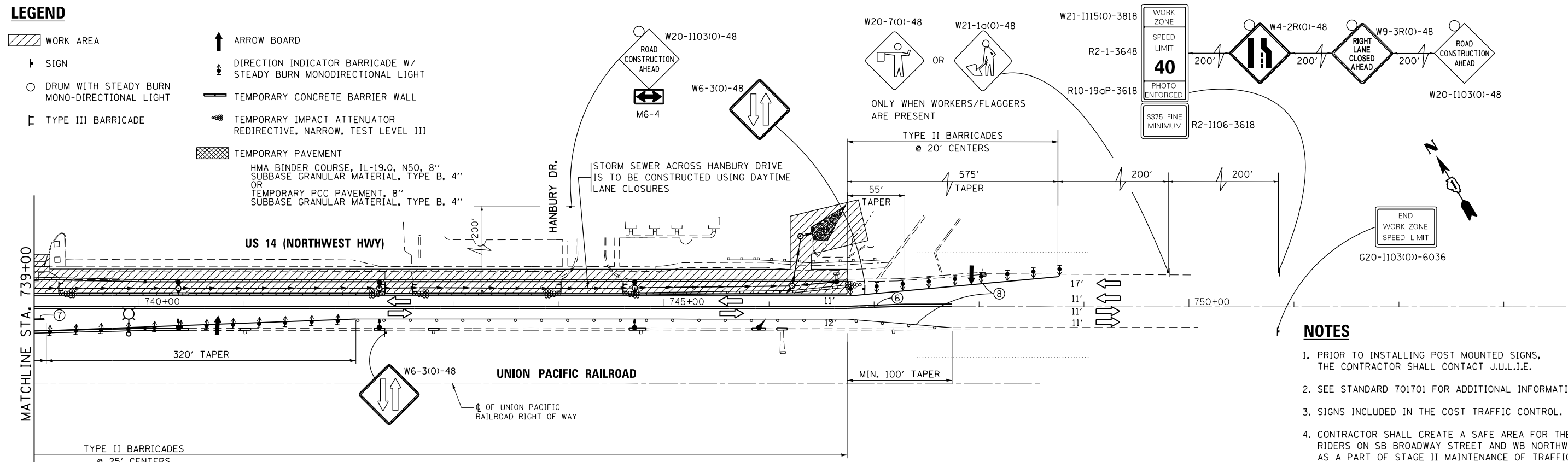
**TEMPORARY CONCRETE BARRIER**

STA. 736+88 TO STA. 738+23 (PINNED STA. 737+01 TO STA. 738+10)  
 STA. 739+39 TO STA. 742+19 (PINNED STA. 739+51 TO STA. 742+06)  
 STA. 742+76 TO STA. 743+87 (PINNED STA. 742+88 TO STA. 743+74)  
 STA. 744+76 TO STA. 746+73 (PINNED STA. 744+89 TO STA. 746+65)

NOTES:  
 PNNED REFERS TO PAY ITEM "PINNING TEMPORARY CONCRETE BARRIER"

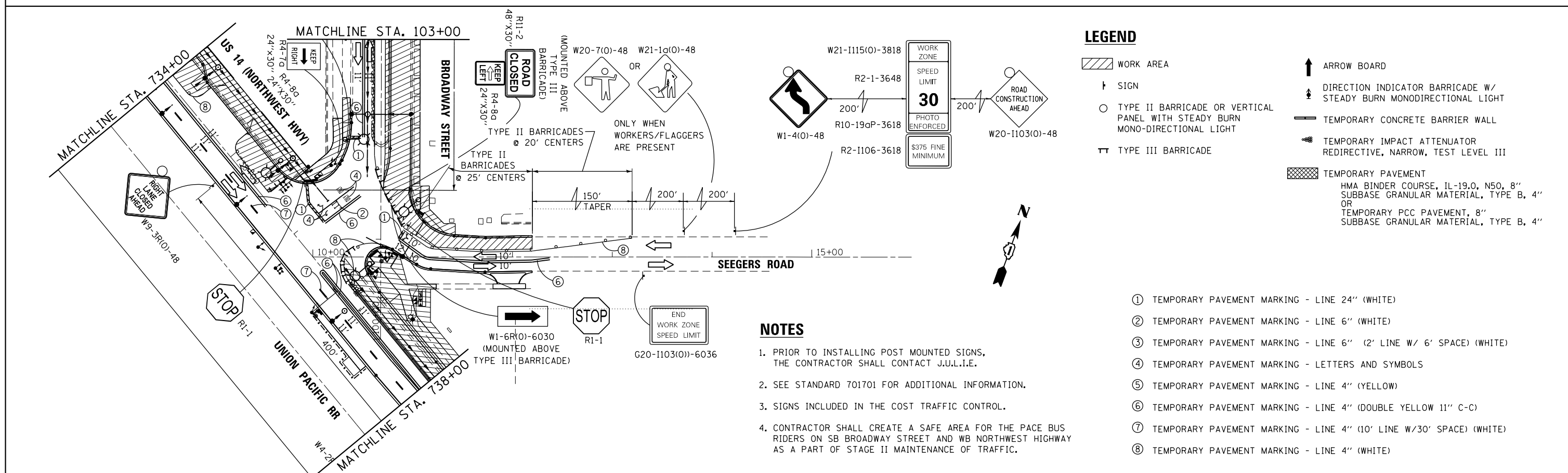
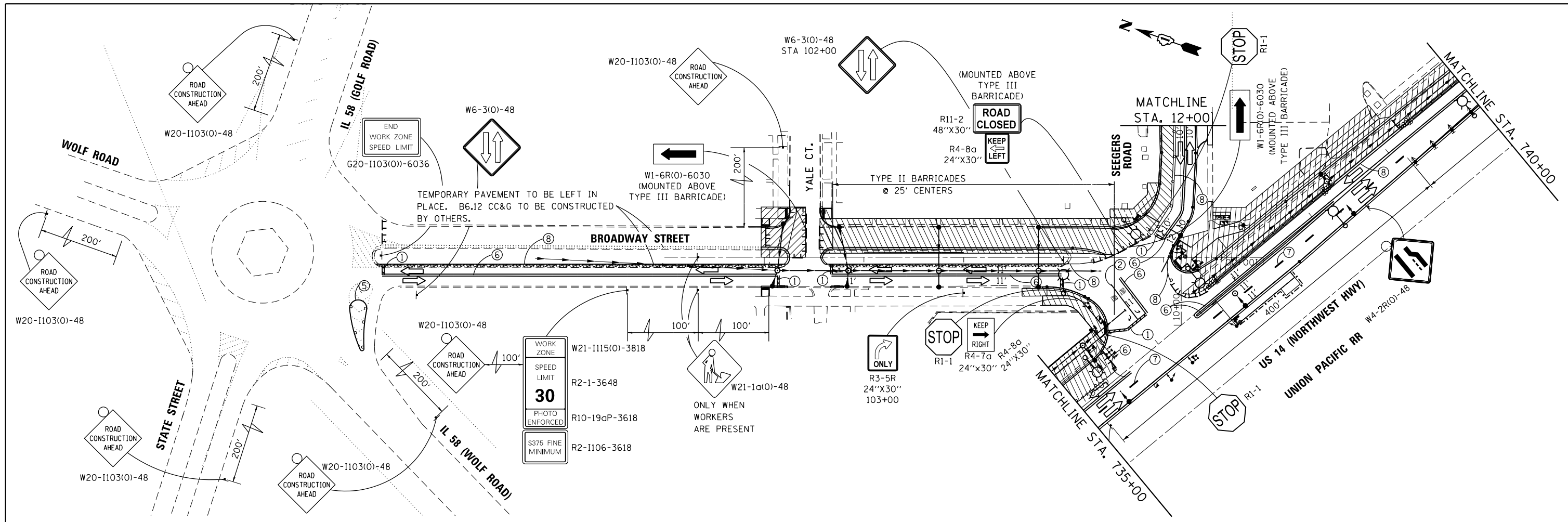
**LEGEND**

- WORK AREA
- SIGN
- DRUM WITH STEADY BURN MONO-DIRECTIONAL LIGHT
- TYPE III BARRICADE
- ARROW BOARD
- DIRECTION INDICATOR BARRICADE W/ STEADY BURN MONODIRECTIONAL LIGHT
- TEMPORARY CONCRETE BARRIER WALL
- TEMPORARY IMPACT ATTENUATOR REDIRECTIVE, NARROW, TEST LEVEL III
- TEMPORARY PAVEMENT  
 HMA BINDER COURSE, IL-19.0, N50, 8"  
 SUBBASE GRANULAR MATERIAL, TYPE B, 4"  
 OR  
 TEMPORARY PCC PAVEMENT, 8"  
 SUBBASE GRANULAR MATERIAL, TYPE B, 4"



- NOTES**
- PRIOR TO INSTALLING POST MOUNTED SIGNS, THE CONTRACTOR SHALL CONTACT J.U.L.I.E.
  - SEE STANDARD 701701 FOR ADDITIONAL INFORMATION.
  - SIGNS INCLUDED IN THE COST TRAFFIC CONTROL.
  - CONTRACTOR SHALL CREATE A SAFE AREA FOR THE PACE BUS RIDERS ON SB BROADWAY STREET AND WB NORTHWEST HIGHWAY AS A PART OF STAGE II MAINTENANCE OF TRAFFIC.

FILE NAME =	USER NAME = bartonrw	DESIGNED - RWB	REVISED - RWB 12/7/2016	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>STAGING PLAN - STAGE II U.S. ROUTE 14 AT BROADWAY STREET</b>			F.A.U. R.T.E. = 3512	SECTION = 87-Y-N	COUNTY = COOK	TOTAL SHEETS = 102	SHEET NO. = 35
Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -		SCALE: 1" = 50'	SHEET 3	OF 6 SHEETS	STA. 730+00.00	TO STA. 748+00.00	CONTRACT NO. 60J39		
	PLOT DATE = 1/19/2017	DATE = 10/21/2016	REVISED -		ILLINOIS FED. AID PROJECT							



**LEGEND**

- WORK AREA
- SIGN
- TYPE II BARRICADE OR VERTICAL PANEL WITH STEADY BURN MONO-DIRECTIONAL LIGHT
- TEMPORARY CONCRETE BARRIER WALL
- TEMPORARY IMPACT ATTENUATOR REDIRECTIVE, NARROW, TEST LEVEL III
- TEMPORARY PAVEMENT  
HMA BINDER COURSE, IL-19.0, N50, 8" SUBBASE GRANULAR MATERIAL, TYPE B, 4" OR  
TEMPORARY PCC PAVEMENT, 8" SUBBASE GRANULAR MATERIAL, TYPE B, 4"
- ARROW BOARD
- DIRECTION INDICATOR BARRICADE W/ STEADY BURN MONODIRECTIONAL LIGHT
- TEMPORARY CONCRETE BARRIER WALL
- TEMPORARY IMPACT ATTENUATOR REDIRECTIVE, NARROW, TEST LEVEL III
- TEMPORARY PAVEMENT  
HMA BINDER COURSE, IL-19.0, N50, 8" SUBBASE GRANULAR MATERIAL, TYPE B, 4" OR  
TEMPORARY PCC PAVEMENT, 8" SUBBASE GRANULAR MATERIAL, TYPE B, 4"

**NOTES**

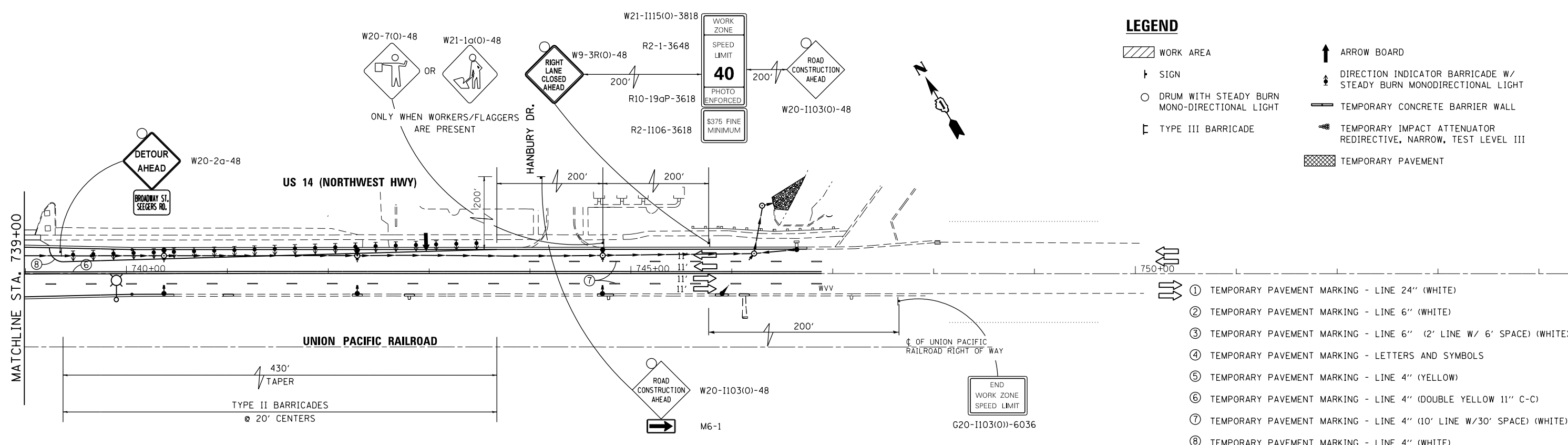
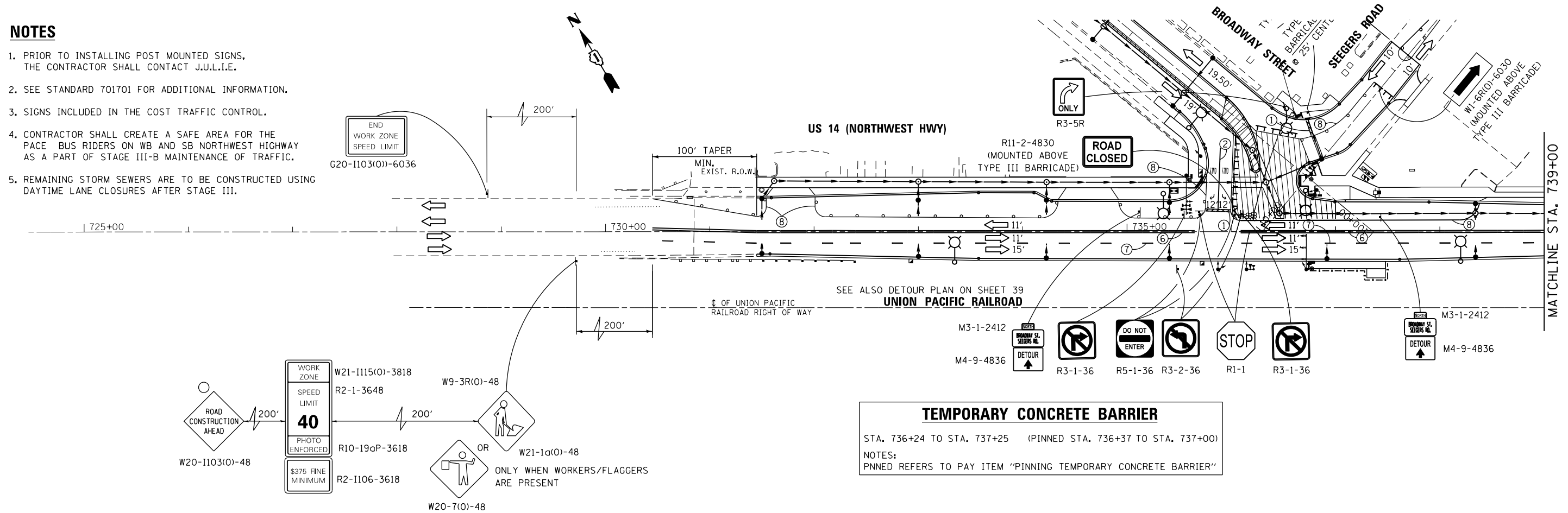
1. PRIOR TO INSTALLING POST MOUNTED SIGNS, THE CONTRACTOR SHALL CONTACT J.U.L.I.E.
2. SEE STANDARD 701701 FOR ADDITIONAL INFORMATION.
3. SIGNS INCLUDED IN THE COST TRAFFIC CONTROL.
4. CONTRACTOR SHALL CREATE A SAFE AREA FOR THE PACE BUS RIDERS ON SB BROADWAY STREET AND WB NORTHWEST HIGHWAY AS A PART OF STAGE II MAINTENANCE OF TRAFFIC.

- ① TEMPORARY PAVEMENT MARKING - LINE 24" (WHITE)
- ② TEMPORARY PAVEMENT MARKING - LINE 6" (WHITE)
- ③ TEMPORARY PAVEMENT MARKING - LINE 6" (2' LINE W/ 6' SPACE) (WHITE)
- ④ TEMPORARY PAVEMENT MARKING - LETTERS AND SYMBOLS
- ⑤ TEMPORARY PAVEMENT MARKING - LINE 4" (YELLOW)
- ⑥ TEMPORARY PAVEMENT MARKING - LINE 4" (DOUBLE YELLOW 11" C-C)
- ⑦ TEMPORARY PAVEMENT MARKING - LINE 4" (10' LINE W/30' SPACE) (WHITE)
- ⑧ TEMPORARY PAVEMENT MARKING - LINE 4" (WHITE)

FILE NAME =	USER NAME = bartonrw	DESIGNED - RWB	REVISED - 12/7/2016	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>STAGING PLAN - STAGE II U.S. ROUTE 14 AT BROADWAY STREET</b>	F.A.U. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw\ill084EBIDINTEG\illinois.gov\PIDOT\Documents\DOT Offices\District 1\Projects\PI430\Drawings\Design\RWB\09-shr-staging-2-2016	CHECKED - Design	REVISI	REVISI			3512	87-Y-N	COOK	102	36
PLOT SCALE = 100.0000' / in.	DATE - 10/21/2016	REVISI	REVISI			CONTRACT NO. 60J39			ILLINOIS FED. AID PROJECT	
Default	PLOT DATE = 1/19/2017	REVISI	REVISI			SCALE: 1" = 50'	SHEET 4	OF 6 SHEETS	STA. 100+00.00	TO STA. 105+00.00

**NOTES**

1. PRIOR TO INSTALLING POST MOUNTED SIGNS, THE CONTRACTOR SHALL CONTACT J.U.L.I.E.
2. SEE STANDARD 701701 FOR ADDITIONAL INFORMATION.
3. SIGNS INCLUDED IN THE COST TRAFFIC CONTROL.
4. CONTRACTOR SHALL CREATE A SAFE AREA FOR THE PACE BUS RIDERS ON WB AND SB NORTHWEST HIGHWAY AS A PART OF STAGE III-B MAINTENANCE OF TRAFFIC.
5. REMAINING STORM SEWERS ARE TO BE CONSTRUCTED USING DAYTIME LANE CLOSURES AFTER STAGE III.



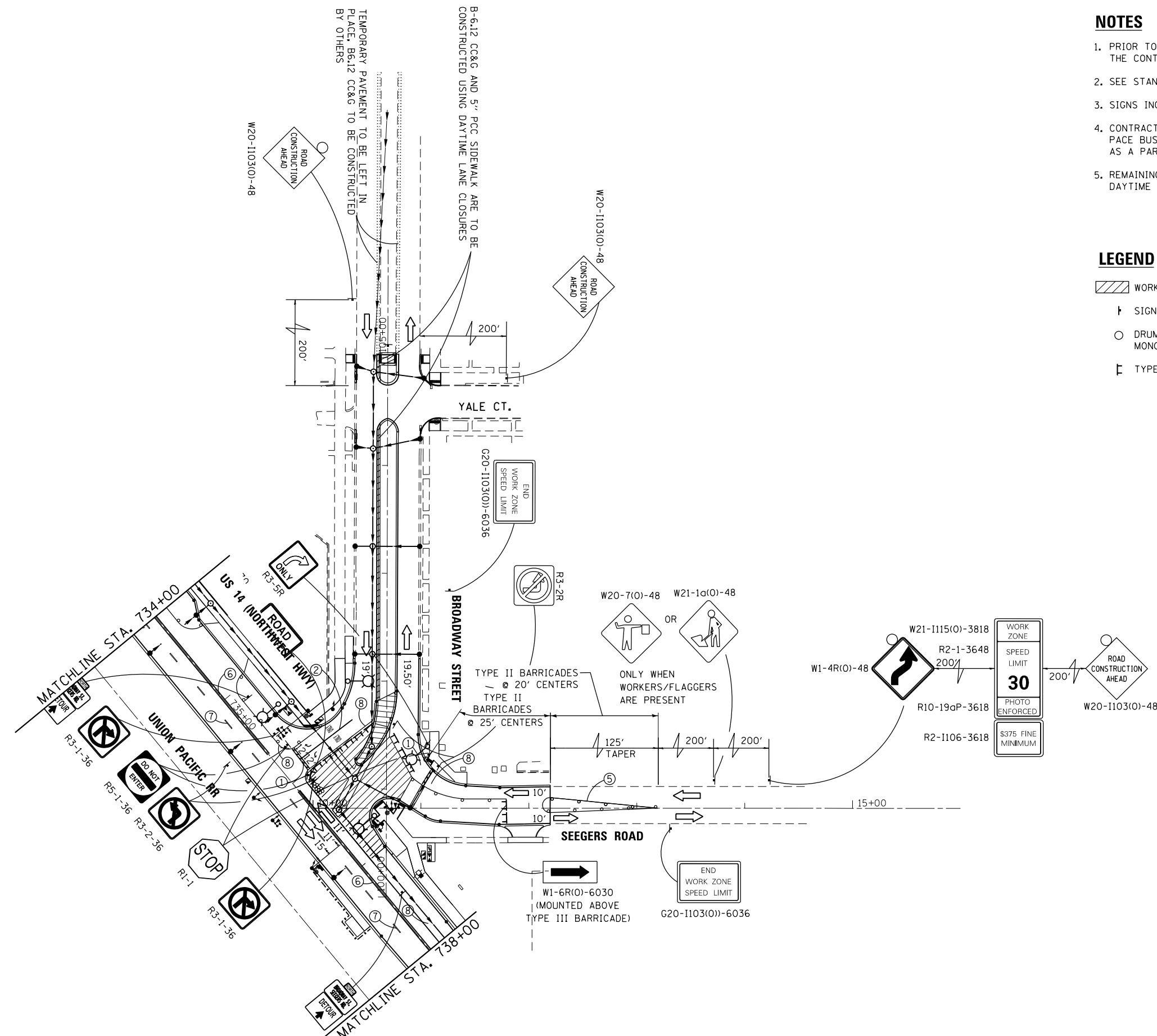
FILE NAME =	USER NAME = bartonw	DESIGNED - RWB	REVISED - RWB 12/7/2016	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>STAGING PLAN - STAGE III U.S. ROUTE 14 AT BROADWAY STREET</b>			F.A.U. RTE. = 3512	SECTION = 87-Y-N	COUNTY = COOK	TOTAL SHEETS = 102	SHEET NO. = 37
Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -		SCALE: 1" = 50'	SHEET 5 OF 6 SHEETS	STA. 730+00.00 TO STA. 748+00.00	CONTRACT NO. 60J39				
	PLOT DATE = 1/19/2017	DATE = 10/21/2016	REVISED -		ILLINOIS FED. AID PROJECT							

**NOTES**

1. PRIOR TO INSTALLING POST MOUNTED SIGNS, THE CONTRACTOR SHALL CONTACT J.U.L.I.E.
2. SEE STANDARD 701701 FOR ADDITIONAL INFORMATION.
3. SIGNS INCLUDED IN THE COST TRAFFIC CONTROL.
4. CONTRACTOR SHALL CREATE A SAFE AREA FOR THE PACE BUS RIDERS ON WB AND SB NORTHWEST HIGHWAY AS A PART OF STAGE III MAINTENANCE OF TRAFFIC.
5. REMAINING STORM SEWERS ARE TO BE CONSTRUCTED USING DAYTIME LANE CLOSURES AFTER STAGE III.

**LEGEND**





- WORK AREA
- SIGN
- DRUM WITH STEADY BURN MONO-DIRECTIONAL LIGHT
- TYPE III BARRICADE
- ARROW BOARD
- DIRECTION INDICATOR BARRICADE W/ STEADY BURN MONODIRECTIONAL LIGHT
- TEMPORARY CONCRETE BARRIER WALL
- TEMPORARY IMPACT ATTENUATOR REDIRECTIVE, NARROW, TEST LEVEL III
- TEMPORARY PAVEMENT  
HMA BINDER COURSE, 1L-19.0, N50, 8"  
SUBBASE GRANULAR MATERIAL, TYPE B, 4"  
OR  
TEMPORARY PCC PAVEMENT, 8"  
SUBBASE GRANULAR MATERIAL, TYPE B, 4"

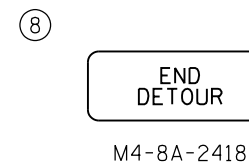
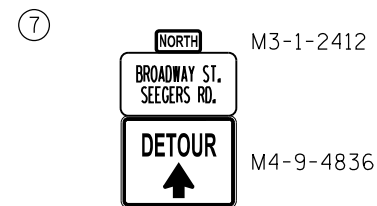
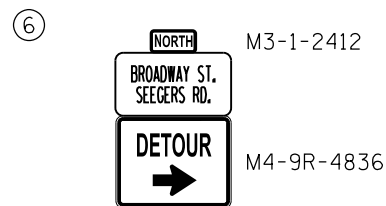
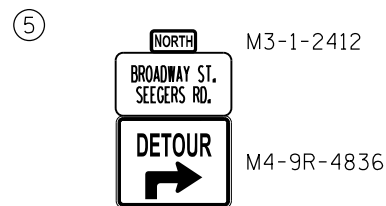
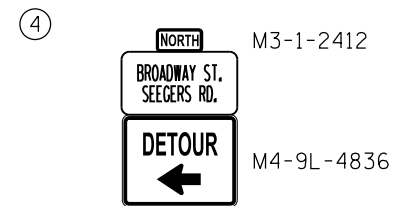
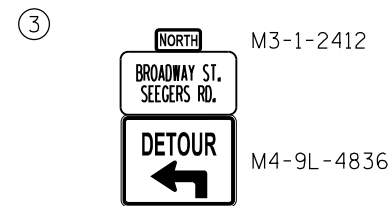
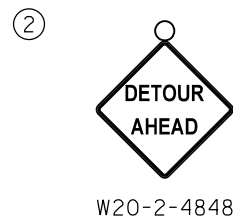
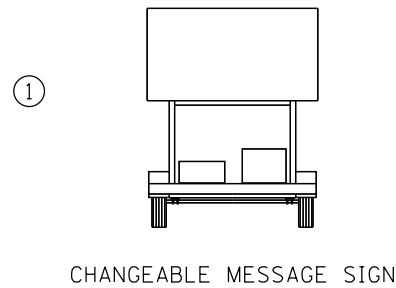


- ① TEMPORARY PAVEMENT MARKING - LINE 24" (WHITE)
- ② TEMPORARY PAVEMENT MARKING - LINE 6" (WHITE)
- ③ TEMPORARY PAVEMENT MARKING - LINE 6" (2' LINE W/ 6' SPACE) (WHITE)
- ④ TEMPORARY PAVEMENT MARKING - LETTERS AND SYMBOLS
- ⑤ TEMPORARY PAVEMENT MARKING - LINE 4" (YELLOW)
- ⑥ TEMPORARY PAVEMENT MARKING - LINE 4" (DOUBLE YELLOW 11" C-C)
- ⑦ TEMPORARY PAVEMENT MARKING - LINE 4" (10' LINE W/30' SPACE) (WHITE)
- ⑧ TEMPORARY PAVEMENT MARKING - LINE 4" (WHITE)



**LEGEND**

-  DETOUR ROUTE
-  WORK ZONE
-  CHANGEABLE MESSAGE SIGN
-  SIGN



FILE NAME =	USER NAME = bartonr	DESIGNED - RWB	REVISED - RWB 12/7/2016
pw:\IL\084EBIDINTEG\illinois.gov\PIDOT\Documents\IDOT Offices\District 1\Projects\P1439\Drawings\Design\WB\909-sht-staging3-16-17		CHECKED - RWB	REVISED -
Default	PLOT DATE = 1/6/2017	DATE - 10/31/2016	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DETOUR PLAN  
US ROUTE 14 AT BROADWAY STREET**

SCALE: NTS SHEET 1 OF 1 SHEETS STA. TO STA.

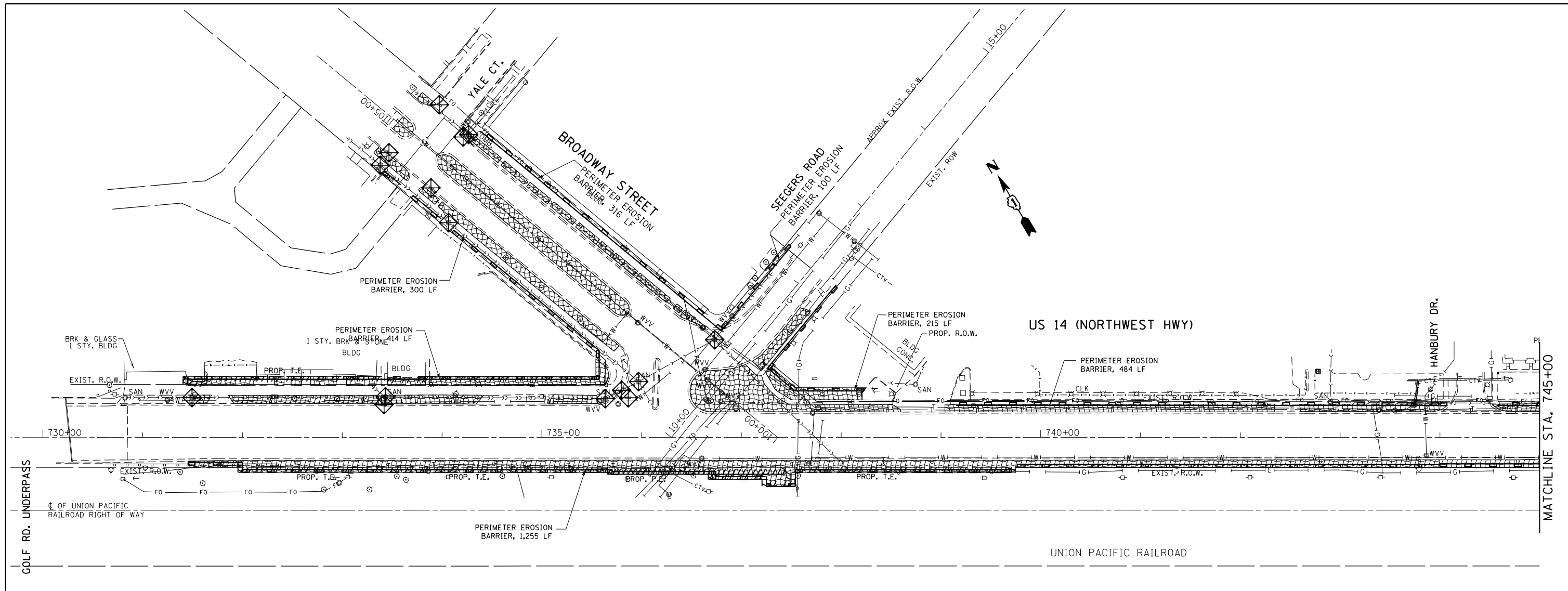
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	87-Y-N	COOK	102	39
CONTRACT NO. 60J39				
ILLINOIS FED. AID PROJECT				

**EROSION CONTROL GENERAL NOTES**

1. THE CONSTRUCTION LIMITS WILL BE STAKED BY THE ENGINEER PRIOR TO COMMENCING CONSTRUCTION. THE CONSTRUCTION LIMITS MAY BE ADJUSTED BY THE ENGINEER TO PRESERVE TREES AND NO ADDITIONAL COST WILL BE PAID TO THE CONTRACT OR FOR CHANGED CONSTRUCTION LIMITS.
2. PERIMETER EROSION BARRIER SHALL BE ERECTED ADJACENT TO THE CONSTRUCTION LIMITS AS INDICATED ON THE EROSION AND SEDIMENT CONTROL PLAN. THE RESIDENT ENGINEER SHALL MAKE THE FINAL DETERMINATION ON THE PLACEMENT AND LOCATION OF THE PERIMETER EROSION BARRIER.
3. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON SITE. ALL CHANGES TO THE SOIL EROSION AND SEDIMENT CONTROL PLAN SHALL BE NOTED ON THE SITE PLAN.
4. SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. SOIL STABILIZATION MEASURES SHALL CONSIDER THE TIME OF THE YEAR, SITE CONDITIONS AND THE USE OF TEMPORARY AND PERMANENT MEASURES.
5. SOIL EROSION AND SEDIMENT CONTROL FEATURES SHALL BE CONSTRUCTED PRIOR TO THE COMMENCEMENT OF HYDROLOGIC DISTURBANCE OF UPLAND AREAS.
6. DISTURBED AREAS SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT MEASURES WITHIN 7 CALENDAR DAYS OF THE END OF ACTIVE HYDROLOGIC DISTURBANCE, OR RE-DISTURBANCE. A QUANTITY OF TEMPORARY EROSION CONTROL SEEDING IS INCLUDED FOR AREAS THAT ARE DISTURBED BUT WILL NOT BE RESTORED WITHIN 14 DAYS.
7. ALL STORM SEWERS THAT ARE OR WILL BE FUNCTIONING DURING CONSTRUCTION SHALL BE PROTECTED BY AN APPROPRIATE SEDIMENT CONTROL MEASURE.
8. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED, AS APPROVED BY THE ENGINEER.
9. ALL TEMPORARY AND PERMANENT EROSION CONTROL MEASURES MUST BE MAINTAINED AND REPAIRED AS NEEDED. THE PRIME CONTRACTOR SHALL BE ULTIMATELY RESPONSIBLE FOR MAINTENANCE AND REPAIR. THE CONTRACTOR SHALL INSPECT ALL SOIL EROSION CONTROL MEASURE ON A WEEKLY BASIS OR AFTER A ONE-HALF INCH RAINFALL AND REPLACE, REPAIR OR CLEAN THEM ON A TIMELY BASIS. ADDITIONALLY DURING WINTER MONTHS, ALL MEASURES SHOULD BE CHECKED AFTER EACH SIGNIFICANT SNOW MELT. ALL OFF SITE BORROW, WASTE AND USE AREAS ARE PART OF THE CONSTRUCTION SITE AND ARE TO BE INSPECTED AT THE SAME FREQUENCY OF ON SITE INSPECTIONS.
10. ANY SEDIMENT OR SOIL REACHING AN IMPROVED PUBLIC RIGHT-OF-WAY, STREET, ALLEY OR PARKING AREA SHALL BE REMOVED BY SCRAPING OR STREET CLEANING AS ACCUMULATIONS WARRANT AND TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA. ALL PRECAUTIONS SHALL BE TAKEN TO AVOID TRACKING DURING CONSTRUCTION.
11. SOIL STOCKPILES SHALL NOT BE LOCATED IN A FLOOD PRONE AREA OR A DESIGNATED BUFFER PROTECTING WATERS OF THE UNITED STATES. STOCKPILES OR SOIL AND OTHER BUILDING MATERIALS TO REMAIN IN PLACE MORE THAN THREE (3) DAYS SHALL BE FURNISHED WITH EROSION AND SEDIMENT CONTROL MEASURES (I.E. PERIMETER SILT FENCE). STOCKPILES TO REMAIN UNDISTURBED FOR MORE THAN 14 DAYS WILL RECEIVE TEMPORARY SEEDING WITHIN 7 CALENDAR DAYS.
12. IF DEWATERING SERVICES ARE USED, ADJOINING PROPERTIES AND DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION. DISCHARGES SHALL BE ROUTED THROUGH AN EFFECTIVE SEDIMENT CONTROL MEASURE (E.G. SEDIMENT TRAP, SEDIMENT BASIN, SILT FILTER BAG (SPECIAL)) OR OTHER APPROPRIATE MEASURE.
13. THE EROSION CONTROL MEASURES INDICATED ON THE PLANS ARE THE MINIMUM REQUIREMENTS. ADDITIONAL MEASURES MAY BE REQUIRED, AS DIRECTED BY THE ENGINEER OR GOVERNING AGENCY.
14. THE CONDITION OF THE CONSTRUCTION SITE FOR WINTER SHUTDOWN SHALL BE ADDRESSED EARLY IN THE FALL GROWING SEASON SO THAT SLOPES AND OTHER EARTH AREAS MAY BE STABILIZED WITH TEMPORARY AND/OR PERMANENT VEGETATIVE COVER FOR PROPER EROSION AND SEDIMENT CONTROL. ALL OPEN AREAS THAT ARE TO REMAIN IDLE THROUGHOUT THE WINTER SHALL RECEIVE TEMPORARY EROSION CONTROL MEASURES INCLUDING TEMPORARY SEEDING, MULCHING AND/OR EROSION CONTROL BLANKET PRIOR TO THE END OF THE FALL GROWING SEASON. THE AREAS TO BE WORKED BEYOND THE END OF THE GROWING SEASON MUST INCORPORATE SOIL STABILIZATION MEASURES THAT DO NOT RELY ON VEGETATIVE COVER SUCH AS EROSION CONTROL BLANKET AND HEAVY MULCHING.
15. UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CONSTRUCTED ACCORDING TO ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, ADOPTED JANUARY 1, 2012.
16. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE ENGINEER.
17. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO INFORM ANY SUB-CONTRACTORS WHO MAY PERFORM WORK ON THIS PROJECT OF THE REQUIREMENTS IN IMPLEMENTING AND MAINTAINING THESE EROSION CONTROL PLANS AND THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT REQUIREMENT SET FORTH BY THE ILLINOIS EPA.
18. PERMANENT STABILIZATION ON STAGE 1 MUST BE COMPLETED PRIOR TO SWITCHING TRAFFIC THE STAGE 2 CONFIGURATION.

FILE NAME =	USER NAME = bartonr	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TEMPORARY EROSION &amp; SEDIMENTATION CONTROL – GENERAL NOTES US ROUTE 14 (NORTHWEST HWY.) AT BROADWAY STREET</b>	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
p:\11084EBIDINTEG\illinois.gov\PIDOT\Documents\DOT Offices\District 1\Projects\P143909\Drawings\CAD\Sheets\P143909-shr-Erosion.dgn		DRAWN	REVISED -			3512	87-Y-N	COOK	102	40
Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -			CONTRACT NO. 60J39				
	PLOT DATE = 11/3/2016	DATE -	REVISED -			SCALE: NA	SHEET 1 OF 3 SHEETS	STA. 730+00.00 TO STA. 748+00.00	ILLINOIS FED. AID PROJECT	



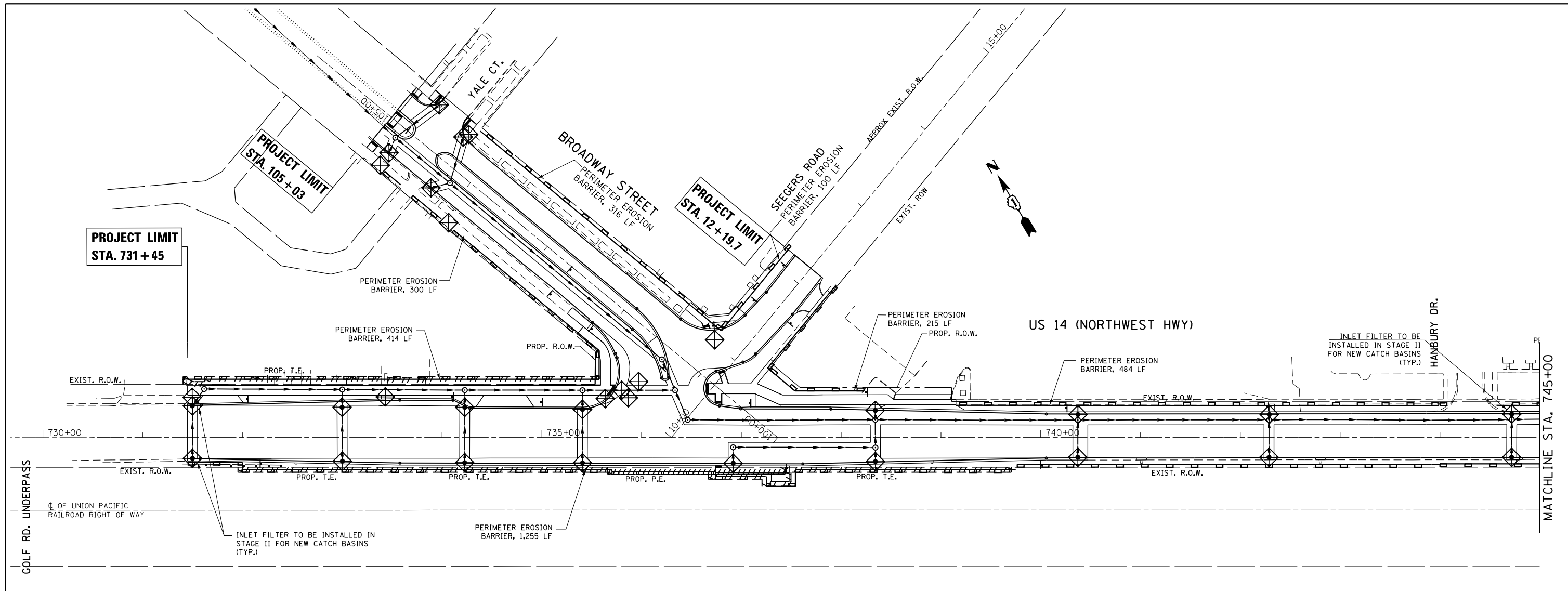


- LEGEND:**
- PERIMETER EROSION BARRIER (SILT FENCE, SEE STD. 280001)
  - INLET FILTER
  - STONE RIPRAP, CLASS A1
  - TEMPORARY EROSION CONTROL BLANKET

- NOTES:**
1. INSTALL INLET FILTERS ON ALL OPEN STRUCTURES AND ALL FLARED END SECTIONS.
  2. TEMPORARY EROSION CONTROL BLANKET SHALL BE PLACED IN ACCORDANCE WITH THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS ON AREAS WITH SLOPES 1:3 OR STEEPER.

FILE NAME =	USER NAME = bartonr	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TEMPORARY EROSION &amp; SEDIMENTATION CONTROL-STAGE 1 US ROUTE 14 (NORTHWEST HWY.) AT BROADWAY STREET</b>	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
Default		DATE -	REVISED -			3512	87-Y-N	COOK	102	41	
						CONTRACT NO. 60J39					
						ILLINOIS FED. AID PROJECT					

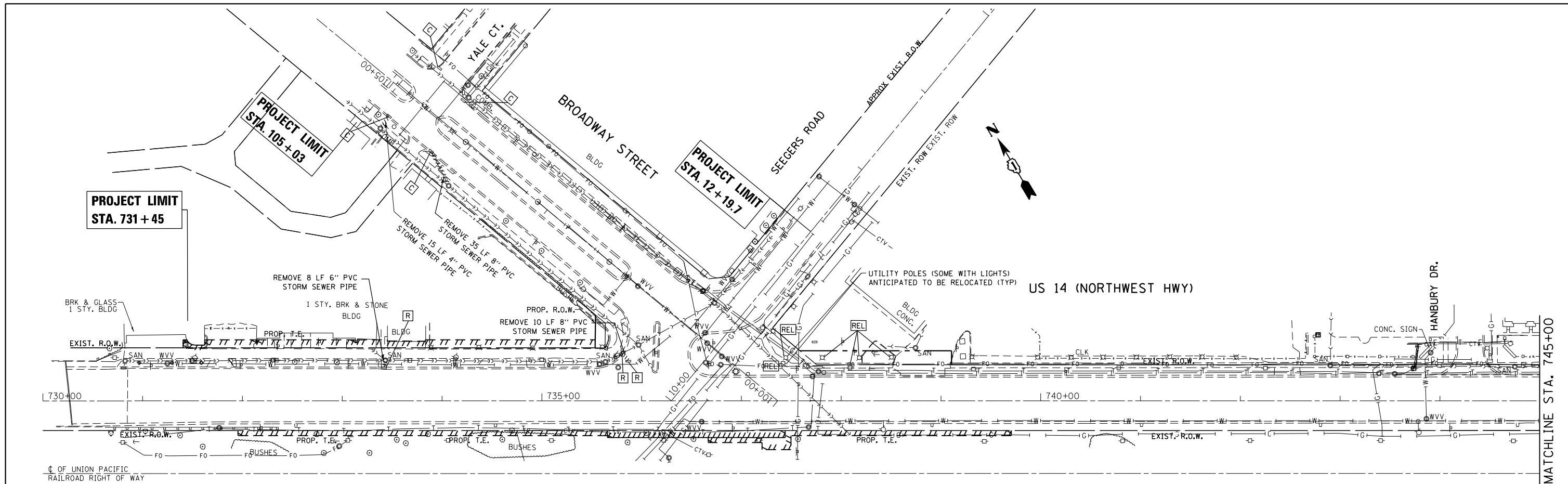
SCALE: 1" = 50'    SHEET 2 OF 3 SHEETS    STA. 730+00.00 TO STA. 748+00.00



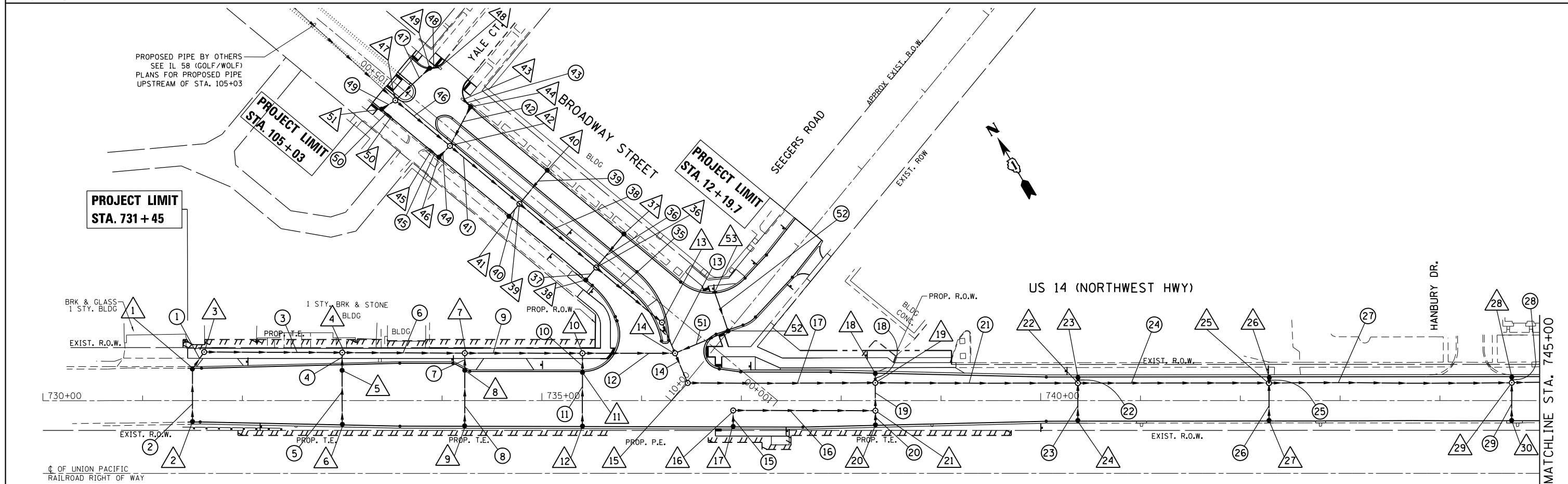
- LEGEND:**
- PERIMETER EROSION BARRIER (SILT FENCE, SEE STD. 280001)
  - INLET FILTER
  - STONE RIPRAP, CLASS A1
  - TEMPORARY EROSION CONTROL BLANKET

- NOTES:**
1. INSTALL INLET FILTERS ON ALL NEWLY INSTALLED CATCH BASINS AND ALL THE FLARED END SECTIONS IN STAGE II CONSTRUCTION.
  2. THE EROSION PERIMETER BARRIER AND THE INLET FILTERS FOR EXISTING STRUCTURES INSTALLED IN STAGE I CONSTRUCTION SHALL STAY IN PLACE DURING STAGE II CONSTRUCTION. THESE ITEMS SHALL BE REMOVED AS PER DIRECTIONS FROM THE ENGINEER
  3. TEMPORARY EROSION CONTROL BLANKET SHALL BE PLACED IN ACCORDANCE WITH THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS ON AREAS WITH SLOPES 1:3 OR STEEPER.

FILE NAME =	USER NAME = bartonr	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TEMPORARY EROSION &amp; SEDIMENTATION CONTROL STAGE 2 US ROUTE 14 (NORTHWEST HWY.) AT BROADWAY STREET</b>	F.A.U. RT.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw\ill084EBIDINTEG.illinois.gov\PIWIDOT\Documents\DOT Offices\District 1\Projects\P14390\Drawings\CADsheets\P143909-sht-Erosion	PLotted SCALE = 100.0000' / in.	CHECKED -	REVISED -			3512	87-Y-N	COOK	102	42
Default	PLotted DATE = 11/3/2016	DATE -	REVISED -			CONTRACT NO. 60J39				
						SCALE: 1" = 50'		SHEET 3 OF 3 SHEETS		STA. 730+00.00 TO STA. 748+00.00



**EXISTING**



**PROPOSED**

FILE NAME =	USER NAME = bartonw	DESIGNED -	REVISED - RWB 11/29/2016
pw:\IL\084EBID\INTEG\illinois.gov\PI\DOT\Documents\DOT Offices\District 1\Projects\P143909\Drawings\CAD\Sheets\P143909-sht-drain.dwg		DRAWN -	REVISED -
Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 1/6/2017	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

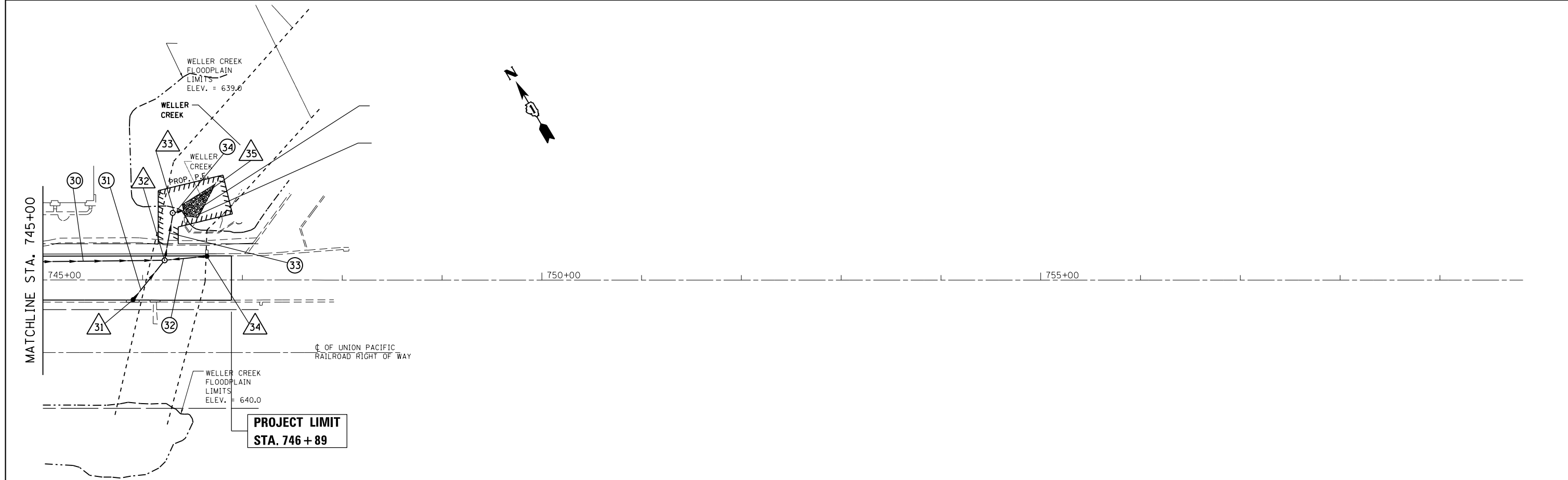
**EXISTING & PROPOSED DRAINAGE PLAN  
U.S. ROUTE 14 AT BROADWAY STREET**

SCALE: 1" = 50'  
SHEET 1 OF 5 SHEETS STA. 730+00.00 TO STA. 745+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	87-Y-N	COOK	102	43
CONTRACT NO. 60J39			ILLINOIS FED. AID PROJECT	



**EXISTING**



**PROPOSED**

FILE NAME =	USER NAME = bartonw	DESIGNED -	REVISED -
p:\1\084EBIDINTEG.illinois.gov\PIWIDOT\Documents\DOT Offices\District 1\Projects\P14390\Drawings\CAD\Sheets\P143909-sht-drain.dwg		DRAWN -	REVISED -
Default		CHECKED -	REVISED -
	PLOT DATE = 11/3/2016	DATE -	REVISED -

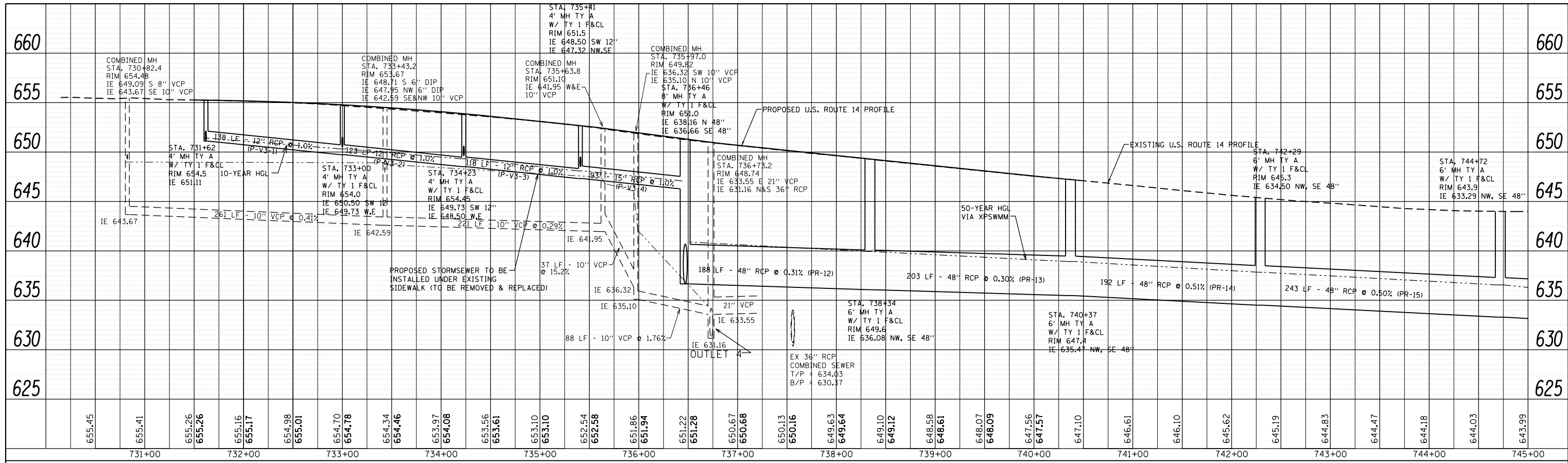
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EXISTING & PROPOSED DRAINAGE PLAN  
U.S. ROUTE 14 AT BROADWAY STREET**

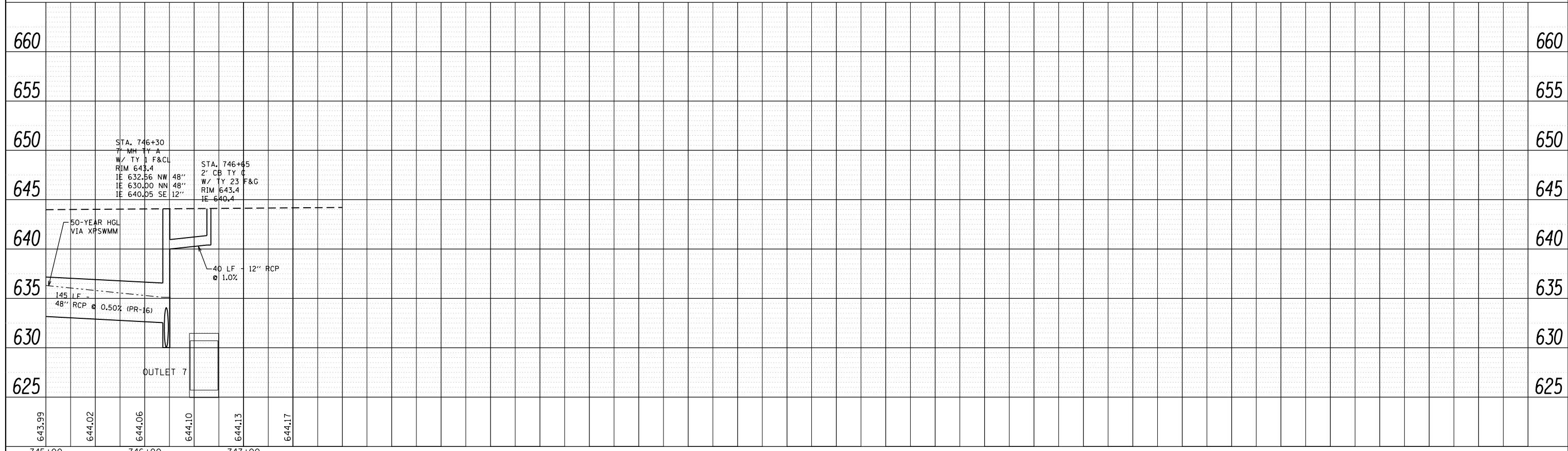
SCALE: 1" = 50'    SHEET 2 OF 5 SHEETS    STA. 745+00.00 TO STA. 748+00.00

F.A.U. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	87-Y-N	COOK	102	44
CONTRACT NO. 60J39			ILLINOIS FED. AID PROJECT	

PLAN	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	ALIGNED	
	CHECKED	
	CARD FILE NAME	



PROFILE	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	



FILE NAME =	USER NAME = bartonrw	DESIGNED -	REVISED - RWB 11/29/2016
\\IL084EBIDINTEG.allinois.gov\PI00T\Documents\DOT Offices\District 1\Projects\P14399\DRAWING\CADsheets\P14399-shd-drain.dwg		CHECKED -	REVISED -
Default	PLOT DATE = 1/6/2017	DATE -	REVISED -

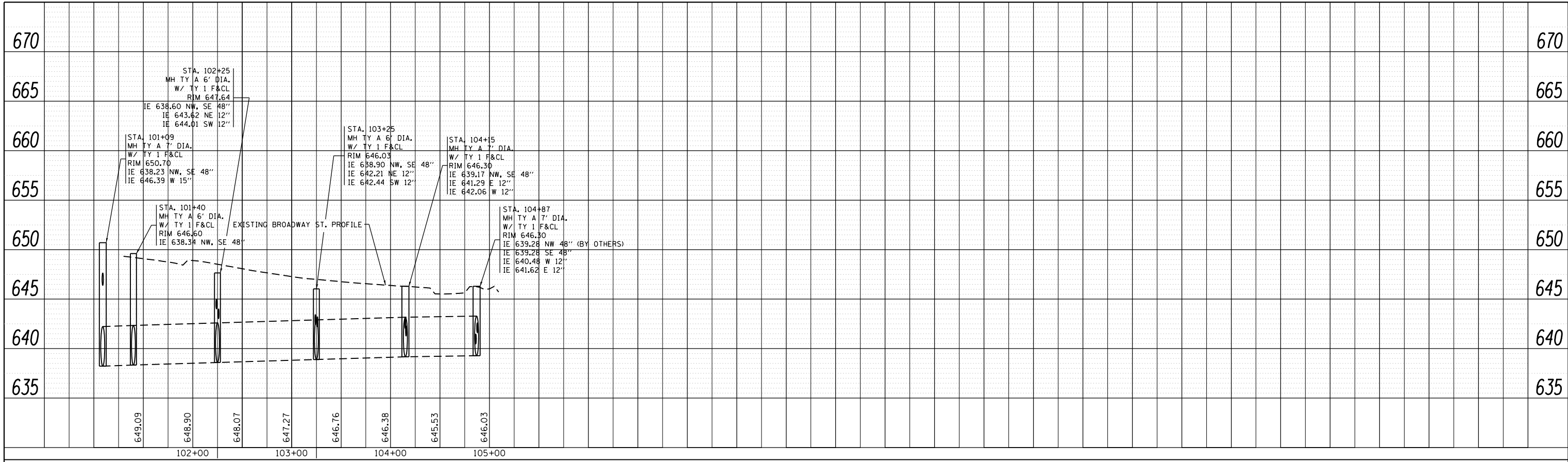
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>EXISTING &amp; PROPOSED DRAINAGE PROFILE</b>	
<b>U.S. ROUTE 14 AT BROADWAY STREET</b>	
SCALE: 1" = 50'	SHEET 3 OF 5 SHEETS STA. 730+00.00 TO STA. 748+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	87-Y-N	COOK	102	45
CONTRACT NO. 60J39			ILLINOIS FED. AID PROJECT	

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	ALIGNED		
	CHECKED		
	FILED		
	CARD FILE NAME		
	NO.		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	STRUCTURE		
	NOT AT THIS OFFICE		
	NO.		



FILE NAME =	USER NAME = bartonr	DESIGNED -	REVISED - RWB 11/29/2016
		CHECKED -	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EXISTING & PROPOSED DRAINAGE PROFILE  
U.S. ROUTE 14 AT BROADWAY STREET**

SCALE: 1" = 50' SHEET 4 OF 5 SHEETS STA. 730+00.00 TO STA. 748+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	87-Y-N	COOK	102	46
CONTRACT NO. 60J39			ILLINOIS FED. AID PROJECT	

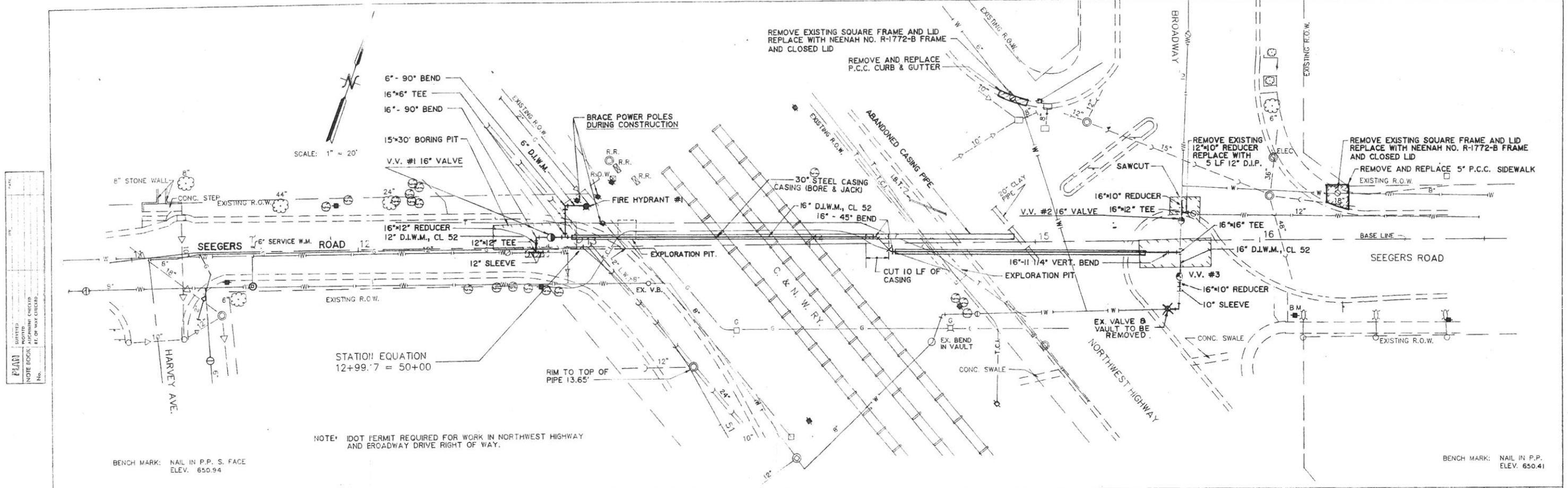
- 1 STA. 731+50, 31.6' LT  
CB TY A 4' DIA.  
W/ TY 23 F&G  
RIM 654.34  
IE 651.31 E & SW 12"
- 2 STA. 731+50, 21.0' RT  
CB TY A 4' DIA.  
W/ TY 23 F&G  
RIM 654.85  
IE 651.85 NE 12"
- 3 STA. 731+62, 48.7' LT  
MH TY A 4' DIA.  
W/ TY 1 F&CL  
RIM 654.5  
IE 651.11 SE 12"  
IE 651.11 W 12"
- 4 STA. 733+00, 48.0' LT  
MH TY A 4' DIA.  
W/ TY 1 F&CL  
RIM 654.0  
IE 650.50 SW 12"  
IE 649.73 NW & SE 12"
- 5 STA. 733+00, 35.0' LT  
CB TY A 4' DIA.  
W/ TY 23 F&G  
RIM 653.38  
IE 649.91 NE & SW 12"
- 6 STA. 733+00, 23.8' RT  
CB TY A 4' DIA.  
W/ TY 23 F&G  
RIM 654.22  
IE 651.22 NE 12"
- 7 STA. 734+23, 47.5' LT  
MH TY A 4' DIA.  
W/ TY 1 F&CL  
RIM 654.45  
IE 649.73 SW 12"  
IE 648.50 NW & SE 12"
- 8 STA. 734+07, 36.3' LT  
CB TY A 4' DIA.  
W/ TY 23 F&G  
RIM 653.38  
IE 649.91 NE & SW 12"
- 9 STA. 734+07, 25.2' RT  
CB TY A 4' DIA.  
W/ TY 23 F&G  
RIM 653.46  
IE 650.46 NE 12"
- 10 STA. 735+41, 47.4' LT  
MH TY A 4' DIA.  
W/ TY 1 F&CL  
RIM 651.5  
IE 648.50 SW 12"  
IE 647.32 NW 12"  
IE 647.32 SE 15"
- 11 STA. 735+41, 28.1' LT  
CB TY A 4' DIA.  
W/ TY 23 F&G  
RIM 652.23  
IE 648.67 NE & SW 12"
- 12 STA. 735+41, 25.5' RT  
CB TY A 4' DIA.  
W/ TY 23 F&G  
RIM 652.23  
IE 649.23 NE 12"
- 13 STA. 101+40, 13.8' LT  
MH TY A 6' DIA.  
W/ TY 1 F&CL  
RIM 649.60  
IE 638.34 NW, SE 48"
- 14 STA. 101+09/736+34, 29' LT  
MH TY A 7' DIA.  
W/ TY 1 F&CL  
RIM 650.70  
IE 638.23 NW, SE 48"  
IE 646.39 W 15"  
IE 644.50 E 12"
- 15 STA. 736+46, 17.7' LT  
MH TY A 8' DIA.  
W/ TY 1 F&CL  
RIM 651.0  
IE 638.16 N 48"  
IE 636.66 SE 48"
- 16 STA. 736+92, 9.8' RT  
MH TY A 4' DIA.  
W/ TY 1 F&CL  
RIM 650.53  
IE 647.05 SW 12"  
IE 646.80 SE 15"
- 17 STA. 736+92, 26' RT  
CB TY A 4' DIA.  
W/ TY 23 F&G  
RIM 650.21  
IE 647.21 NE 12"
- 18 STA. 738+34, 27' LT  
CB TY A 4' DIA.  
W/ TY 23 F&G  
RIM 649.40  
IE 645.95 NE 12"
- 19 STA. 738+34, 17.8' LT  
MH TY A 6' DIA.  
W/ TY 1 F&CL  
RIM 649.60  
IE 636.08 NW & SE 48"  
IE 644.84 SW 15"  
IE 645.88 NE 12"
- 20 STA. 738+34, 24.2' RT  
CB TY A 4' DIA.  
W/ TY 23 F&G  
RIM 648.96  
IE 645.78 NE 12"
- 21 STA. 738+34, 10.1' RT  
MH TY A 5' DIA.  
W/ TY 1 F&CL  
RIM 649.24  
IE 645.64 SW 12"  
IE 645.37 NW 15"  
IE 645.12 NE 15"
- 22 STA. 740+37, 17.5' LT  
MH TY A 6' DIA.  
W/ TY 1 F&CL  
RIM 647.4  
IE 635.47 NW & SE 48"  
IE 643.35 NE 12"  
IE 643.49 SW 12"
- 23 STA. 740+37, 24.2' LT  
CB TY A 4' DIA.  
W/ TY 23 F&G  
RIM 646.87  
IE 643.42 NE 12"
- 24 STA. 740+37, 20' RT  
CB TY A 4' DIA.  
W/ TY 23 F&G  
RIM 646.87  
IE 643.87 NE 12"
- 25 STA. 742+29, 17.6' LT  
MH TY A 6' DIA.  
W/ TY 1 F&CL  
RIM 645.3  
IE 634.50 NW & SE 48"  
IE 641.41 NE 12"  
IE 641.55 SW 12"
- 26 STA. 742+29, 23.1' LT  
CB TY A 4' DIA.  
W/ TY 23 F&G  
RIM 644.93  
IE 641.48 NE 12"
- 27 STA. 742+29, 19.8' RT  
CB TY A 4' DIA.  
W/ TY 23 F&G  
RIM 644.93  
IE 641.93 NE 12"
- 28 STA. 744+72, 23.6' LT  
CB TY A 4' DIA.  
W/ TY 23 F&G  
RIM 643.49  
IE 640.17 NE 12"
- 29 STA. 744+72, 17.9' LT  
MH TY A 6' DIA.  
W/ TY 1 F&CL  
RIM 643.9  
IE 633.29 NW & SE 48"  
IE 639.97 NE 12"  
IE 640.11 SW 12"
- 30 STA. 744+72, 19.8' RT  
CB TY A 4' DIA.  
W/ TY 23 F&G  
RIM 643.49  
IE 640.49 NE 12"
- 31 STA. 745+91, 19.6' RT  
CB TY A 4' DIA.  
W/ TY 23 F&G  
RIM 643.69  
IE 640.69 NE 12"
- 32 STA. 746+30, 29.8' LT  
MH TY A 7' DIA.  
W/ TY 1 F&CL  
RIM 643.4  
IE 632.56 NW 48"  
IE 630.00 NE 48"  
IE 640.00 SE 12"  
IE 640.20 SW 12"
- 33 STA. 746+30, 67.3' LT  
MH TY A 8' DIA.  
W/ TY 1 F&CL  
RIM 639.00  
IE 627.69 SW 48"  
IE 627.69 E 48"
- 34 STA. 746+65, 23.8' LT  
CB TY A 4' DIA.  
W/ TY 23 F&G  
RIM 643.4  
IE 640.4 NW 12"
- 35 STA. 746+41, 70' LT  
PRCFES 48" DIA.  
W/ RIPRAP  
IE 627.12 W 48"
- 36 STA. 102+25, 13.5' LT  
MH TY A 6' DIA.  
W/ TY 1 F&CL  
RIM 647.64  
IE 638.60 NW, SE 48"  
IE 643.62 NE 12"  
IE 644.01 SW 12"
- 37 STA. 102+25, 30.1' RT  
CB TY A 4' DIA.  
W/ TY 12 F&G  
RIM 647.03  
IE 644.03 SW, 12"
- 38 STA. 102+25, 29.8' LT  
CB TY A 4' DIA.  
W/ TY 12 F&G  
RIM 647.15  
IE 644.15 NE, 12"
- 39 STA. 103+25, 13.5' LT  
MH TY A 6' DIA.  
W/ TY 1 F&CL  
RIM 646.03  
IE 638.90 NW, SE 48"  
IE 642.21 NE 12"  
IE 642.44 SW 12"
- 40 STA. 103+25, 30.1' RT  
CB TY A 4' DIA.  
W/ TY 12 F&G  
RIM 645.62  
IE 642.62 SW 12"
- 41 STA. 103+25, 29.8' LT  
CB TY A 4' DIA.  
W/ TY 12 F&G  
RIM 645.58  
IE 642.58 NE 12"
- 42 STA. 104+15, 13.3' LT  
MH TY A 7' DIA.  
W/ TY 1 F&CL  
RIM 646.3  
IE 639.17 NW, SE 48"  
IE 641.25 NE 15"  
IE 642.03 W 15"
- 43 STA. 104+35, 30.5' RT  
EXIST. INLET  
RIM 644.80  
IE 641.77 SE 15"
- 44 STA. 104+25, 30.0' RT  
CB TY A 4' DIA.  
W/ TY 12 F&G  
RIM 644.85  
IE 641.67 NW, SW 15"
- 45 STA. 104+27, 29' LT  
EXIST. INLET  
RIM 644.76  
IE 642.26 SE 15"
- 46 STA. 104+17, 29.0' LT  
CB TY A 4' DIA.  
W/ TY 12 F&G  
RIM 645.77  
IE 642.16 NW, E 15"
- 47 STA. 104+87, 13.2' LT  
MH TY A 7' DIA.  
W/ TY 1 F&CL  
RIM 646.3  
IE 639.28 NW 48" (BY OTHERS)  
IE 639.28 SE 48"  
IE 640.48 NE 15"  
IE 641.55 W 15"
- 48 STA. 104+74, 40.3' RT  
EXIST. INLET  
RIM 644.83  
IE 641.03 NW 15"
- 49 STA. 104+81, 33.6' RT  
CB TY A 4' DIA.  
W/ TY 12 F&G  
RIM 645.00  
IE 640.93 SE, SW 15"
- 50 STA. 104+82, 28.7' LT  
EXIST. INLET  
RIM 644.96  
IE 641.79 NW 15"
- 51 STA. 104+92, 28.8' LT  
CB TY A 4' DIA.  
W/ TY 12 F&G  
RIM 645.05  
IE 641.69 SE, E 15"
- 52 STA. 10+90, 0.5' LT  
CB TY A 4' DIA.  
W/ TY 12 F&G  
RIM 649.76  
IE 645.05 N 12"  
IE 645.05 W 12"
- 53 STA. 11+11, 35.5' LT  
INLET TY A  
W/ TY 12 F&G  
RIM 648.46  
IE 645.46 S 12"
- 1 18 LF - 12" SS, TYPE 2,  
WATER MAIN QUALITY PIPE  
@ 1.00% TBF= 4.27 C.Y.
- 2 54 LF - 12" SS RCP  
CLASS A, TYPE 2  
@ 1.00% TBF= 12.47 C.Y.
- 3 138 LF - 12" SS RCP  
CLASS A, TYPE 2  
@ 1.00% TBF= 44.30 C.Y.
- 4 18 LF - 12" SS, TYPE 2,  
WATER MAIN QUALITY PIPE  
@ 1.00% TBF= 5.80 C.Y.
- 5 54 LF - 12" SS RCP  
CLASS A, TYPE 2  
@ 1.00% TBF= 13.93 C.Y.
- 6 123 LF - 12" SS RCP  
CLASS A, TYPE 2  
@ 1.00% TBF= 87.58 C.Y.
- 7 15 LF - 12" SS, TYPE 2,  
WATER MAIN QUALITY PIPE  
@ 1.00% TBF= 9.72 C.Y.
- 8 56 LF - 12" SS, TYPE 2,  
WATER MAIN QUALITY PIPE  
@ 1.00% TBF= 14.45 C.Y.
- 9 118 LF - 12" SS RCP  
CLASS A, TYPE 2  
@ 1.00% TBF= 82.25 C.Y.
- 10 19 LF - 12" SS, TYPE 2,  
WATER MAIN QUALITY PIPE  
@ 1.00% TBF= 6.17 C.Y.
- 11 56 LF - 12" SS, TYPE 2,  
WATER MAIN QUALITY PIPE  
@ 1.00% TBF= 14.84 C.Y.
- 12 93 LF - 15" SS, TYPE 2,  
WATER MAIN QUALITY PIPE  
@ 1.00% TBF= 35.15 C.Y.
- 13 34 LF - 48" SS RCP  
CLASS A, TYPE 3  
@ 0.30% TBF= 85.24 C.Y.
- 14 32 LF - 48" SS RCP  
CLASS A, TYPE 3  
@ 0.22% TBF= 87.97 C.Y.
- 15 16 LF - 12" SS, TYPE 2,  
WATER MAIN QUALITY PIPE  
@ 1.00% TBF= 4.13 C.Y.
- 16 142 LF - 15" SS RCP  
CLASS A, TYPE 2  
@ 1.00% TBF= 46.72 C.Y.
- 17 188 LF - 48" SS RCP  
CLASS A, TYPE 3  
@ 0.31% TBF= 618.73 C.Y.
- 18 7 LF - 12" SS RCP  
CLASS A, TYPE 2  
@ 1.00% TBF= 2.08 C.Y.
- 19 27 LF - 15" SS RCP  
CLASS A, TYPE 2  
@ 1.00% TBF= 10.77 C.Y.
- 20 15 LF - 12" SS, TYPE 2,  
WATER MAIN QUALITY PIPE  
@ 1.00% TBF= 4.17 C.Y.
- 21 203 LF - 48" SS RCP  
CLASS A, TYPE 3  
@ 0.30% TBF= 597.06 C.Y.
- 22 6 LF - 12" SS RCP  
CLASS A, TYPE 2  
@ 1.00% TBF= 1.88 C.Y.
- 23 37 LF - 12" SS RCP  
CLASS A, TYPE 2  
@ 1.00% TBF= 10.47 C.Y.
- 24 192 LF - 48" SS RCP  
CLASS A, TYPE 3  
@ 0.51% TBF= 487.50 C.Y.
- 25 6 LF - 12" SS RCP  
CLASS A, TYPE 2  
@ 1.00% TBF= 1.79 C.Y.
- 26 37 LF - 12" SS RCP  
CLASS A, TYPE 2  
@ 1.00% TBF= 10.43 C.Y.
- 27 243 LF - 48" SS RCP  
CLASS A, TYPE 2  
@ 0.50% TBF= 573.50 C.Y.
- 28 6 LF - 12" SS RCP  
CLASS A, TYPE 2  
@ 1.00% TBF= 1.76 C.Y.
- 29 37 LF - 12" SS RCP  
CLASS A, TYPE 2  
@ 1.00% TBF= 10.51 C.Y.
- 30 145 LF - 48" SS RCP  
CLASS A, TYPE 2  
@ 0.50% TBF= 367.16 C.Y.
- 31 49 LF - 12" SS RCP  
CLASS A, TYPE 2  
@ 1.00% TBF= 16.25 C.Y.
- 32 40 LF - 12" SS RCP  
CLASS A, TYPE 2  
@ 1.00% TBF= 8.89 C.Y.
- 33 44 LF - 48" SS RCP  
CLASS A, TYPE 3  
@ 5.00% TBF= 100.77 C.Y.
- 34 33 LF - 48" SS RCP  
CLASS A, TYPE 3  
@ 5.00% TBF= 77.82 C.Y.
- 35 86 LF - 48" SS RCP  
CLASS A, TYPE 3  
@ 0.30% TBF= 150.41 C.Y.
- 36 44 LF - 12" SS, TYPE 2,  
WATER MAIN QUALITY PIPE  
@ 1.00% TBF= 10.77 C.Y.
- 37 17 LF - 12" SS RCP  
CLASS A, TYPE 2  
@ 1.00% TBF= 4.44 C.Y.
- 38 100 LF - 48" SS RCP  
CLASS A, TYPE 2  
@ 0.30% TBF= 174.90 C.Y.
- 39 44 LF - 12" SS, TY 2  
WATER MAIN QUALITY PIPE  
@ 1.00% TBF= 10.77 C.Y.
- 40 17 LF - 12" SS RCP  
CLASS A, TYPE 2  
@ 1.00% TBF= 4.44 C.Y.
- 41 91 LF - 48" SS RCP  
CLASS A, TYPE 3  
@ 0.30% TBF= 159.16 C.Y.
- 42 45 LF - 15" SS, TYPE 2  
WATER MAIN QUALITY PIPE  
@ 1.00% TBF= 15.23 C.Y.
- 43 10 LF - 15" SS RCP  
CLASS A, TYPE 2  
@ 1.00% TBF= 2.41 C.Y.
- 44 16 LF - 15" SS RCP  
CLASS A, TYPE 2  
@ 1.00% TBF= 4.38 C.Y.
- 45 10 LF - 15" SS RCP  
CLASS A, TYPE 2  
@ 1.00% TBF= 2.37 C.Y.
- 46 72 LF - 48" SS RCP  
CLASS A, TYPE 2  
@ 0.17% TBF= 81.72 C.Y.
- 47 48 LF - 15" SS, TYPE 2  
WATER MAIN QUALITY PIPE  
@ 1.00% TBF= 15.94 C.Y.
- 48 10 LF - 15" SS RCP  
CLASS A, TYPE 2  
@ 1.00% TBF= 3.13 C.Y.
- 49 17 LF - 15" SS RCP  
CLASS A, TYPE 2  
@ 1.00% TBF= 11.31 C.Y.
- 50 10 LF - 15" SS RCP  
CLASS A, TYPE 2  
@ 1.00% TBF= 2.55 C.Y.
- 51 58 LF - 12" SS, TYPE 2  
WATER MAIN QUALITY PIPE  
@ 1.00% TBF= 40.21 C.Y.
- 52 41 LF - 12" SS, TYPE 2  
WATER MAIN QUALITY PIPE  
@ 1.00% TBF= 11.10 C.Y.

NOTE: OFFSETS FOR DRAINAGE STRUCTURES ARE TO CENTER OF FRAME.

FILE NAME -	USER NAME - bartonw	DESIGNED -	REVISED - RWB 11/29/2016	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>PROPOSED DRAINAGE STRUCTURE AND PIPE TABLES</b> <b>U.S. ROUTE 14 AT BROADWAY STREET</b>	F.A.U. RT# -	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
Default	Documents\DOT Offices\District 1\Projects\P143909\Drawings\CAD\Drawings\143909-sht-drainage.dwg	CHECKED -	REVISED -			3512	87-Y-N	COOK	102	47
	PLOT SCALE = 100.0000' / in.	DATE -	REVISED -			SCALE: 1" = 50'		SHEET 5 OF 5 SHEETS		STA. 745+00.00 TO STA. 748+00.00

ILLINOIS FED. AID PROJECT CONTRACT NO. 60J39

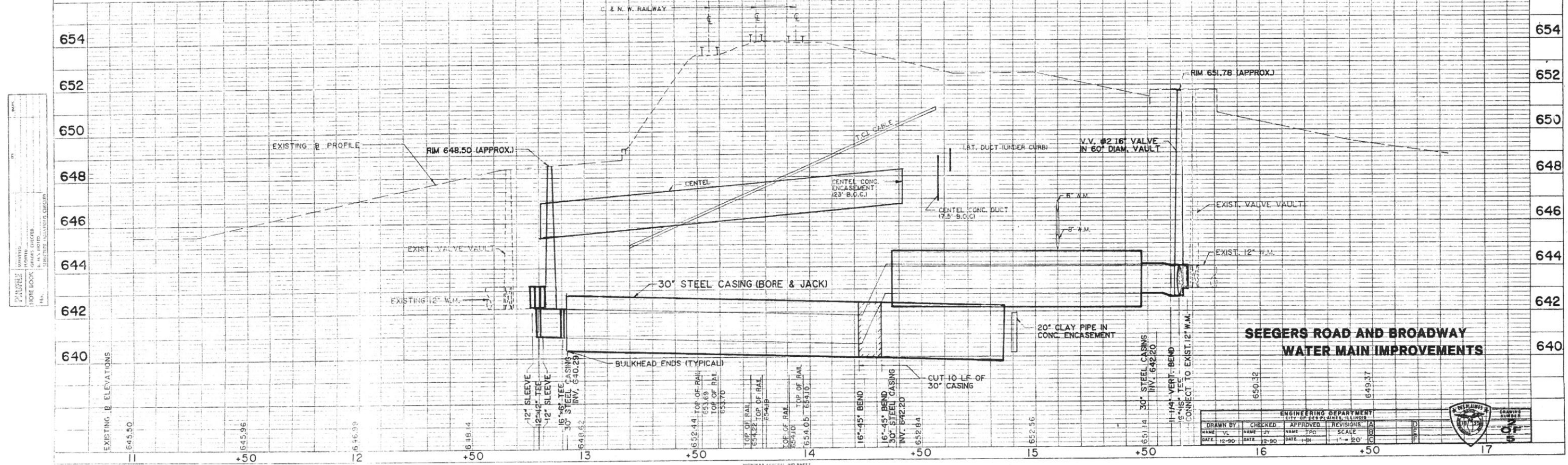
FOR INFORMATIONAL USE ONLY



NOTE: DOT PERMIT REQUIRED FOR WORK IN NORTHWEST HIGHWAY AND BROADWAY DRIVE RIGHT OF WAY.

BENCH MARK: NAIL IN P.P. S. FACE  
ELEV. 650.94

BENCH MARK: NAIL IN P.P.  
ELEV. 650.41



SEEGERS ROAD AND BROADWAY  
WATER MAIN IMPROVEMENTS

ENGINEERING DEPARTMENT					
CITY OF BEECHER, ILLINOIS					
NAME	DATE	SCALE	REVISIONS	A	B
DATE: 12-90	DATE: 12-90	SCALE: 1" = 20'			

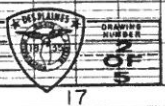
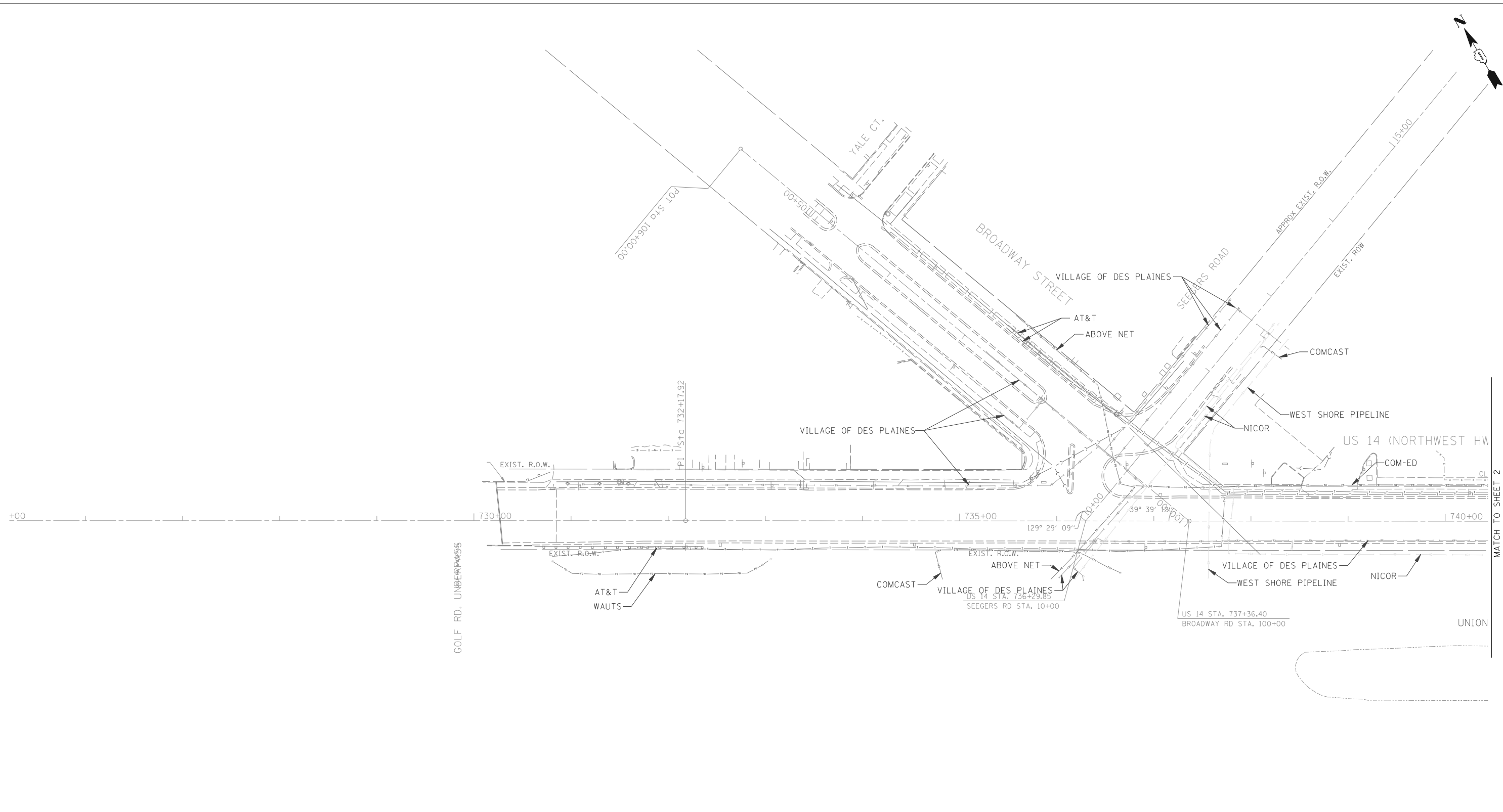


PLATE 1-SINGLE PLAN AND PROFILE FULL LINE  
PRINTED IN U.S.A.






— A — A —	AERIAL
- - - - -	UNKNOWN
— CTV — CTV —	CABLE TV
— T — T —	TELEPHONE
— G — G —	GAS
— E — E —	ELECTRIC
— W — W —	WATER
— FO — FO —	FIBER OPTIC
⊕	TBE TEST HOLE

Utility Quality Level "A" : Visually Verified Test Hole  
 Utility Quality Level "B" : Designating/non Visually Verified Test Hole  
 Utility Quality Level "C" : Research with Survey  
 Utility Quality Level "D" : Records Research


UTILITY OWNERS	
ABOVE NET =	FIBER OPTIC
AT&T =	TELEPHONE
COM-ED =	ELECTRIC
COM-ED =	FIBER OPTIC
COMCAST =	CABLE TV
NICOR =	GAS
WAUTS =	FIBER OPTIC
WEST SHORE PIPELINE =	GAS
VILLAGE OF DES PLAINES =	WATER

Utilities shown on these plans as depicted in the legend have been investigated by Cardno TBE in accordance with SUE Industry Standards. All other information shown has been provided to Cardno TBE by others. Cardno TBE's SUE field investigation was performed 11/01/13 through 11/27/13. Changes to utilities after 11/27/13 may have been made and therefore may result in variances from this plan. Consideration should be given to updating this plan if deemed advisable prior to final design and construction.

ALL UTILITIES SHOWN QUALITY LEVEL "B" UNLESS NOTED OTHERWISE.



**Cardno  
TBE**



**Dynasty Group**  
Engineers & Surveyors

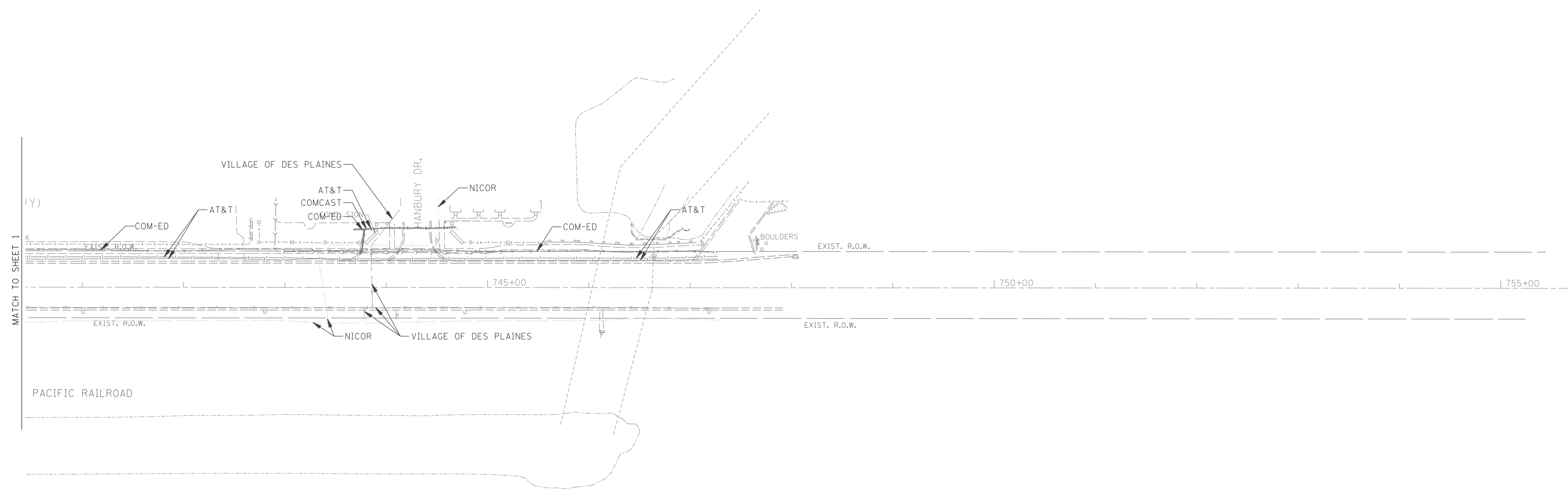
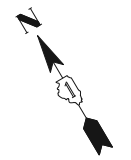
TBE Job No. IL09510554  
SUE Plan Page: 1 of 2

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	N/A	Cook	102	48
FED. ROAD DIST. NO. - ILLINOIS			IDOT Project No.	

DESIGNED	ER	REVISED	
DRAWN	SRK	REVISED	
CHECKED	KFS	REVISED	
DATE	12/04/13	REVISED	

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**US 14 at Broadway Street  
Des Plaines, IL**

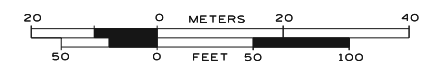


— A — A —	AERIAL
- - - - -	UNKNOWN
— CTV — CTV —	CABLE TV
— T — T —	TELEPHONE
— G — G —	GAS
— E — E —	ELECTRIC
— W — W —	WATER
— FO — FO —	FIBER OPTIC
⊕	TBE TEST HOLE

UTILITY OWNERS	
ABOVE NET =	FIBER OPTIC
AT&T =	TELEPHONE
COM-ED =	ELECTRIC
COM-ED =	FIBER OPTIC
COMCAST =	CABLE TV
NICOR =	GAS
WAUTS =	FIBER OPTIC
WEST SHORE PIPELINE =	GAS
VILLAGE OF DES PLAINES =	WATER

Utilities shown on these plans as depicted in the legend have been investigated by Cardno TBE in accordance with SUE Industry Standards. All other information shown has been provided to Cardno TBE by others. Cardno TBE's SUE field investigation was performed 11/01/13 through 11/27/13. Changes to utilities after 11/27/13 may have been made and therefore may result in variances from this plan. Consideration should be given to updating this plan if deemed advisable prior to final design and construction.

ALL UTILITIES SHOWN QUALITY LEVEL "B" UNLESS NOTED OTHERWISE.



TBE Job No. IL09510554  
SUE Plan Page: 2 of 2

Utility Quality Level "A" : Visually Verified Test Hole  
Utility Quality Level "B" : Designating/non Visually Verified Test Hole  
Utility Quality Level "C" : Research with Survey  
Utility Quality Level "D" : Records Research

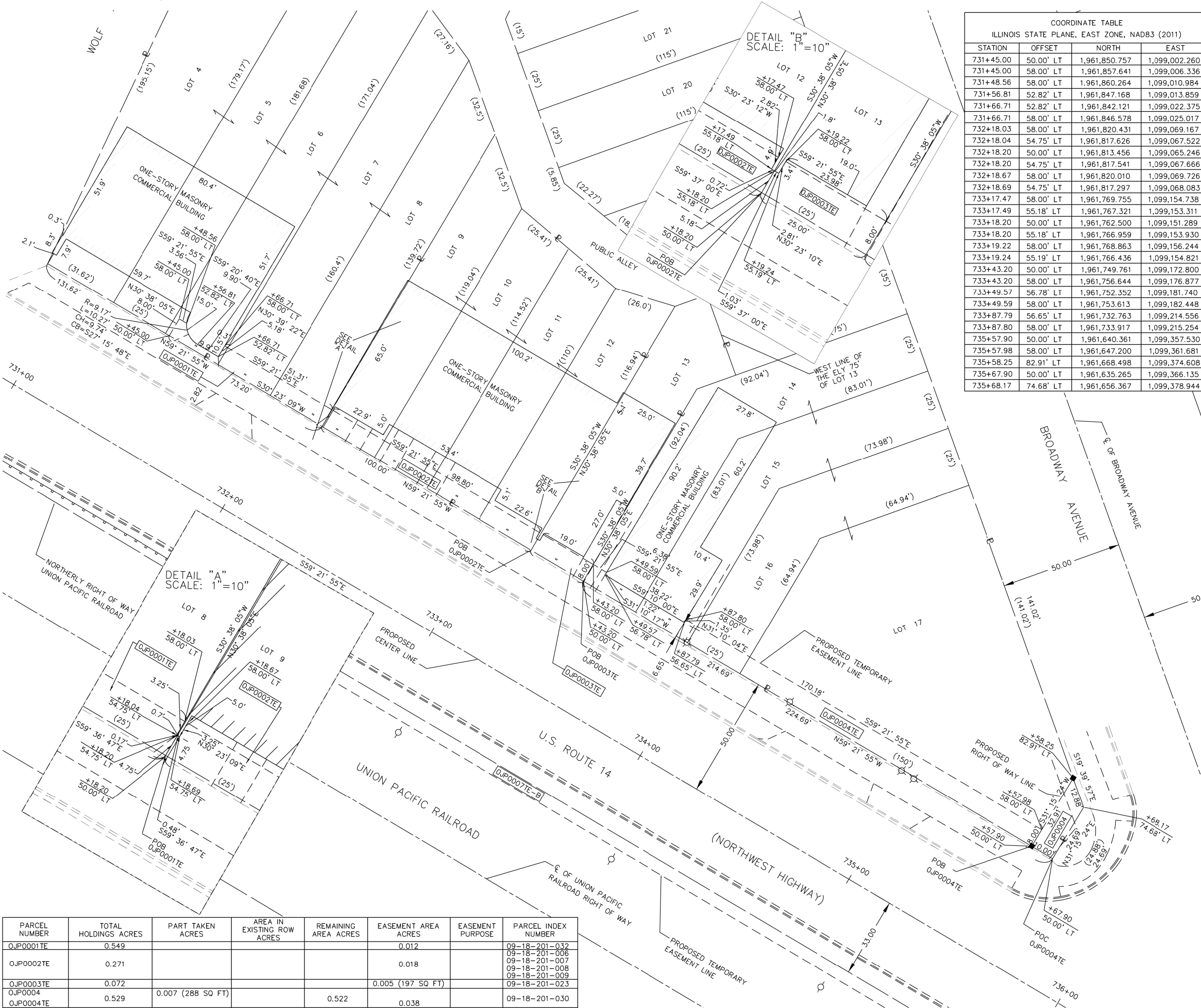
DESIGNED	ER	REVISED
DRAWN	SRK	REVISED
CHECKED	KFS	REVISED
DATE	12/04/13	REVISED

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**US 14 at Broadway Street  
Des Plaines, IL**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	N/A	Cook	102	48A
FED. ROAD DIST. NO. - ILLINOIS			IDOT Project No.	
			Contract No. 60J39	

PART OF THE NE 1/4 OF SECTION 18, TWP. 41 N., R. 12 E. OF THE 3RD. P.M., IN COOK COUNTY, ILLINOIS.



COORDINATE TABLE  
ILLINOIS STATE PLANE, EAST ZONE, NAD83 (2011)

STATION	OFFSET	NORTH	EAST
731+45.00	50.00' LT	1,961,850.757	1,099,002.260
731+45.00	58.00' LT	1,961,857.641	1,099,006.336
731+48.56	58.00' LT	1,961,860.264	1,099,010.984
731+56.81	52.82' LT	1,961,847.168	1,099,013.859
731+66.71	52.82' LT	1,961,842.121	1,099,022.375
731+66.71	58.00' LT	1,961,846.578	1,099,025.017
732+18.03	58.00' LT	1,961,820.431	1,099,069.167
732+18.04	54.75' LT	1,961,817.626	1,099,067.522
732+18.20	50.00' LT	1,961,813.456	1,099,065.246
732+18.20	54.75' LT	1,961,817.541	1,099,067.666
732+18.67	58.00' LT	1,961,820.010	1,099,069.726
732+18.69	54.75' LT	1,961,817.297	1,099,068.083
733+17.47	58.00' LT	1,961,769.755	1,099,154.738
733+17.49	55.18' LT	1,961,767.321	1,099,153.311
733+18.20	50.00' LT	1,961,762.500	1,099,151.289
733+18.20	55.18' LT	1,961,766.959	1,099,153.930
733+19.22	58.00' LT	1,961,768.863	1,099,156.244
733+19.24	55.19' LT	1,961,766.436	1,099,154.821
733+43.20	50.00' LT	1,961,749.761	1,099,172.800
733+43.20	58.00' LT	1,961,756.644	1,099,176.877
733+49.57	56.78' LT	1,961,752.352	1,099,181.740
733+49.59	58.00' LT	1,961,753.613	1,099,182.448
733+87.79	56.65' LT	1,961,732.763	1,099,214.556
733+87.80	58.00' LT	1,961,733.917	1,099,215.254
735+57.90	50.00' LT	1,961,640.361	1,099,357.530
735+57.98	58.00' LT	1,961,647.200	1,099,361.681
735+58.25	82.91' LT	1,961,668.498	1,099,374.608
735+67.90	50.00' LT	1,961,635.265	1,099,366.135
735+68.17	74.68' LT	1,961,656.367	1,099,378.944

**LEGEND**

- EX. ROW LINE
- PROP. ROW LINE
- 1/4 SECTION LINE
- SECTION LINE
- PROPERTY LOT LINE
- EXISTING ROADWAY CENTERLINE
- PROPOSED PERMANENT EASEMENT
- PROPOSED TEMPORARY EASEMENT
- CURB AND GUTTER
- SIDEWALK

**SYMBOL LEGEND**

- MEASURED DIMENSION
- COMPUTED DIMENSION
- RECORDED DIMENSION
- EXISTING BUILDING
- IRON PIPE OR ROD FOUND
- CUT CROSS FOUND OR SET
- THESE STAKES REFERENCE FOUND OR SET MONUMENTATION. SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO TIE FOUND IRON STAKE IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION. BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- PERMANENT SURVEY MARKER, I.D.O.T. STANDARD 2135 (TO BE SET BY OTHERS)
- RIGHT OF WAY STAKING PROPOSED TO BE SET
- "MAG" NAIL SET
- 5 / 8" REBAR SET
- POWER POLE
- LIGHT POLE
- POINT OF BEGINNING
- POINT OF COMMENCEMENT

GRAPHIC SCALE  
FEET  
SCALE: 1" = 20'

ALL DIMENSIONS ARE MEASURED UNLESS OTHERWISE SPECIFIED.

BEARINGS AND DISTANCES SHOWN HEREON REFERENCE THE ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST GRID, NORTH AMERICAN DATUM OF 1983 (2011 ADJUSTMENT) "GRID". ALL MEASURED AND CALCULATED DISTANCES ARE "GRID" NOT "GROUND". TO OBTAIN GROUND DISTANCES, DIVIDE GRID DISTANCES SHOWN BY THE COMBINATION FACTOR OF 0.99996611.

AREAS SHOWN ON PLAT ARE GROUND.

- IRON PIPE OR ROD FOUND
- ⊕ "MAG" NAIL SET
- ⊕ CUT CROSS FOUND OR SET
- 5 / 8" REBAR SET
- T1 THESE STAKES REFERENCE FOUND OR SET MONUMENTATION. SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO TIE FOUND IRON STAKE IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- T2
- T3
- BT1 THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION. BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- BT2
- BT3
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- M STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- ⊕ PERMANENT SURVEY MARKER, I.D.O.T. STANDARD 2135 (TO BE SET BY OTHERS)
- RIGHT OF WAY STAKING PROPOSED TO BE SET

STATE OF ILLINOIS )  
COUNTY OF COOK )SS

THIS IS TO CERTIFY THAT I, DONALD RERICKA, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, (WE, FLUIDCLARITY, LTD. AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184.003912,) HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 18, TOWNSHIP 41 NORTH, RANGE 12 EAST OF THE THIRD PRINCIPAL MERIDIAN, COOK COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT OAK PARK, ILLINOIS THIS DAY OF 2015 A.D.

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 035-003465  
LICENSE EXPIRATION DATE: 11/30/2016

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

FLUIDCLARITY, LTD.  
1144 W. LAKE STREET, SUITE 303  
OAK PARK, ILLINOIS 60301

**PLAT OF HIGHWAYS**  
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
US ROUTE 14

LIMITS: US 14 AT BROADWAY AVE COUNTY: COOK  
SECTION: NE1/4 SEC 18 JOB NO.: R-90-004-12  
STATION 731+45.00 TO STATION 746+94.40  
SCALE: 1"=20' SHEET 1 OF 4

BUREAU OF LAND ACQUISITION  
201 WEST CENTER COURT  
SCHAUMBURG, ILLINOIS 60196

PARCEL NUMBER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	AREA IN EXISTING ROW ACRES	REMAINING AREA ACRES	EASEMENT AREA ACRES	EASEMENT PURPOSE	PARCEL INDEX NUMBER
OJP0001TE	0.549				0.012		09-18-201-032
OJP0002TE	0.271				0.018		09-18-201-006 09-18-201-007 09-18-201-008 09-18-201-009
OJP0003TE	0.072				0.005 (197 SQ FT)		09-18-201-023
OJP0004	0.529	0.007 (288 SQ FT)		0.522	0.038		09-18-201-030

SHEET NO. 49  
TOTAL SHEETS 102

PART OF THE NE 1/4 OF SECTION 18, TWP. 41 N., R. 12 E. OF THE 3RD. P.M., IN COOK COUNTY, ILLINOIS.

**LEGEND**

- EX. ROW LINE
- - - PROP. ROW LINE
- 1/4 SECTION LINE
- SECTION LINE
- PROPERTY LOT LINE
- EXISTING ROADWAY CENTERLINE
- PROPOSED PERMANENT EASEMENT
- PROPOSED TEMPORARY EASEMENT
- CURB AND GUTTER
- SIDEWALK

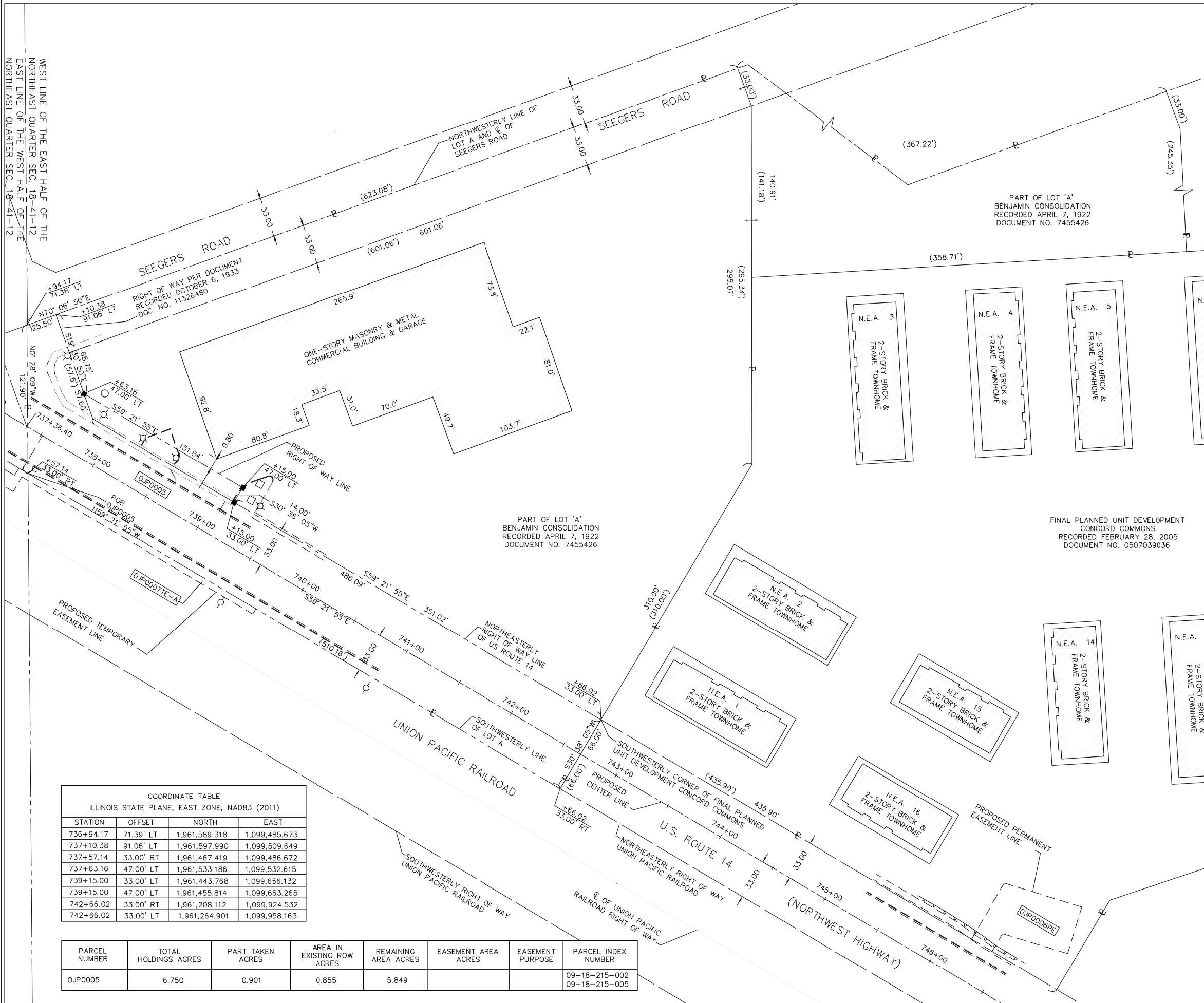
**SYMBOL LEGEND**

- POWER POLE
- ⊗ LIGHT POLE
- POB POINT OF BEGINNING
- POC POINT OF COMMENCEMENT

MEASURED DIMENSION: 129.32'  
 COMPUTED DIMENSION: 129.32' (COMP)  
 RECORDED DIMENSION: 129.32'  
 EXISTING BUILDING: [Symbol]

GRAPHIC SCALE  
 FEET  
 0 40  
 SCALE: 1" = 40'

SECTION CORNER: 9 10 / 16 15  
 QUARTER CORNER: 16 SECTION CORNER / 15 SECTION CORNER



ALL DIMENSIONS ARE MEASURED UNLESS OTHERWISE SPECIFIED.

BEARINGS AND DISTANCES SHOWN HEREON REFERENCE THE ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST GRID, NORTH AMERICAN DATUM OF 1983 (2011 ADJUSTMENT) "GRID". ALL MEASURED AND CALCULATED DISTANCES ARE "GRID" NOT "GROUND". TO OBTAIN GROUND DISTANCES, DIVIDE GRID DISTANCES SHOWN BY THE COMBINATION FACTOR OF 0.99996611.

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- + CUT CROSS FOUND OR SET
- 5 / 8" REBAR SET
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- T2
- T3
- BT1 THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION. BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- BT2
- BT3
- STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- M STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- ⊙ PERMANENT SURVEY MARKER, I.D.O.T. STANDARD 2135 (TO BE SET BY OTHERS)
- RIGHT OF WAY STAKING PROPOSED TO BE SET

STATE OF ILLINOIS )  
 COUNTY OF COOK )SS

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DATED AT OAK PARK, ILLINOIS THIS \_\_\_\_\_ DAY OF \_\_\_\_\_ 2015 A.D.

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 035-003465  
 LICENSE EXPIRATION DATE: 11/30/2016

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

FLUIDCLARITY, LTD.  
 1144 W. LAKE STREET, SUITE 303  
 OAK PARK, ILLINOIS 60301

**PLAT OF HIGHWAYS**  
 STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 US ROUTE 14

LIMITS: US 14 AT BROADWAY AVE COUNTY: COOK  
 SECTION: NE1/4 SEC 18 JOB NO.: R-90-004-12  
 STATION 731+45.00 TO STATION 746+94.40  
 SCALE: 1"=40' SHEET 2 OF 4

BUREAU OF LAND ACQUISITION  
 201 WEST CENTER COURT  
 SCHAUMBURG, ILLINOIS 60196

COORDINATE TABLE  
 ILLINOIS STATE PLANE, EAST ZONE, NAD83 (2011)

STATION	OFFSET	NORTH	EAST
736+94.17	71.39' LT	1,961,589.318	1,099,485.673
737+10.38	91.06' LT	1,961,597.990	1,099,509.649
737+57.14	33.00' RT	1,961,467.419	1,099,486.672
737+63.16	47.00' LT	1,961,533.186	1,099,532.615
739+15.00	33.00' LT	1,961,443.768	1,099,656.132
739+15.00	47.00' LT	1,961,455.814	1,099,663.265
742+66.02	33.00' RT	1,961,208.112	1,099,924.532
742+66.02	33.00' LT	1,961,264.901	1,099,958.163

PARCEL NUMBER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	AREA IN EXISTING ROW ACRES	REMAINING AREA ACRES	EASEMENT AREA ACRES	EASEMENT PURPOSE	PARCEL INDEX NUMBER
OJP0005	6.750	0.901	0.855	5.849			09-18-215-002 09-18-215-005

PART OF THE NE 1/4 OF SECTION 18, TWP. 41 N., R. 12 E. OF THE 3RD. P.M., IN COOK COUNTY, ILLINOIS.

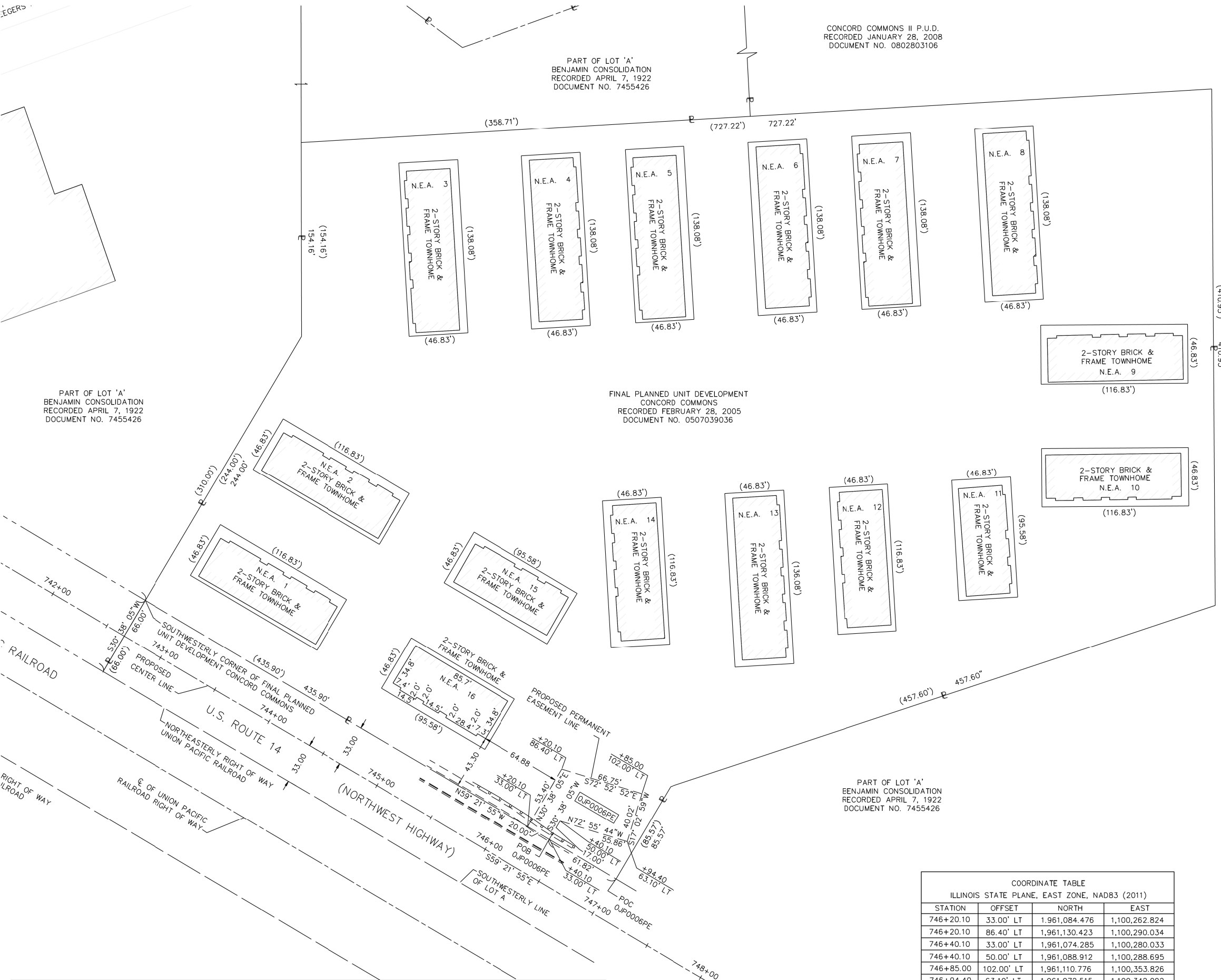
**LEGEND**

- EX. ROW LINE
- - - PROP. ROW LINE
- - - 1/4 SECTION LINE
- - - SECTION LINE
- PROPERTY LOT LINE
- - - EXISTING ROADWAY CENTERLINE
- - - PROPOSED PERMANENT EASEMENT
- - - PROPOSED TEMPORARY EASEMENT
- - - CURB AND GUTTER
- - - SIDEWALK

**SYMBOL LEGEND**

- 129.32' MEASURED DIMENSION
- 129.32' (COMP) COMPUTED DIMENSION
- (129.32') RECORDED DIMENSION
- [ ] EXISTING BUILDING
- POWER POLE
- ⊗ LIGHT POLE
- POB POINT OF BEGINNING
- POC POINT OF COMMENCEMENT

GRAPHIC SCALE  
0 40  
FEET  
SCALE: 1" = 40'



PART OF LOT 'A'  
BENJAMIN CONSOLIDATION  
RECORDED APRIL 7, 1922  
DOCUMENT NO. 7455426

PART OF LOT 'A'  
BENJAMIN CONSOLIDATION  
RECORDED APRIL 7, 1922  
DOCUMENT NO. 7455426

CONCORD COMMONS II P.U.D.  
RECORDED JANUARY 28, 2008  
DOCUMENT NO. 0802803106

FINAL PLANNED UNIT DEVELOPMENT  
CONCORD COMMONS  
RECORDED FEBRUARY 28, 2005  
DOCUMENT NO. 0507039036

PART OF LOT 'A'  
BENJAMIN CONSOLIDATION  
RECORDED APRIL 7, 1922  
DOCUMENT NO. 7455426

PART OF LOT 'A'  
BENJAMIN CONSOLIDATION  
RECORDED APRIL 7, 1922  
DOCUMENT NO. 7455426

ALL DIMENSIONS ARE MEASURED UNLESS OTHERWISE SPECIFIED.  
BEARINGS AND DISTANCES SHOWN HEREON REFERENCE THE ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST GRID, NORTH AMERICAN DATUM OF 1983 (2011 ADJUSTMENT) "GRID". ALL MEASURED AND CALCULATED DISTANCES ARE "GRID" NOT "GROUND". TO OBTAIN GROUND DISTANCES, DIVIDE GRID DISTANCES SHOWN BY THE COMBINATION FACTOR OF 0.99996611.  
AREAS SHOWN ON PLAT ARE GROUND.

- IRON PIPE OR ROD FOUND
- + CUT CROSS FOUND OR SET
- T1 THESE STAKES REFERENCE FOUND OR SET MONUMENTATION. SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO TIE FOUND IRON STAKE IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- BT1 THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION. BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- M STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- PERMANENT SURVEY MARKER, I.D.O.T. STANDARD 2135 (TO BE SET BY OTHERS)
- RIGHT OF WAY STAKING PROPOSED TO BE SET

STATE OF ILLINOIS )  
  )SS  
COUNTY OF COOK    )

THIS IS TO CERTIFY THAT I, DONALD RERICKA, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, (WE, FLUIDCLARITY, LTD. AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184.003912.) HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 18, TOWNSHIP 41 NORTH, RANGE 12 EAST OF THE THIRD PRINCIPAL MERIDIAN, COOK COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT OAK PARK, ILLINOIS THIS        DAY OF        2015 A.D.

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 035-003465  
LICENSE EXPIRATION DATE: 11/30/2016

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

FLUIDCLARITY, LTD.  
1144 W. LAKE STREET, SUITE 303  
OAK PARK, ILLINOIS 60301

COORDINATE TABLE			
ILLINOIS STATE PLANE, EAST ZONE, NAD83 (2011)			
STATION	OFFSET	NORTH	EAST
746+20.10	33.00' LT	1,961,084.476	1,100,262.824
746+20.10	86.40' LT	1,961,130.423	1,100,290.034
746+40.10	33.00' LT	1,961,074.285	1,100,280.033
746+40.10	50.00' LT	1,961,088.912	1,100,288.695
746+85.00	102.00' LT	1,961,110.776	1,100,353.826
746+94.40	63.10' LT	1,961,072.515	1,100,342.092

PARCEL NUMBER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	AREA IN EXISTING ROW ACRES	REMAINING AREA ACRES	EASEMENT AREA ACRES	EASEMENT PURPOSE	PARCEL INDEX NUMBER
OJP0006PE	8.638				0.072		09-18-215-012

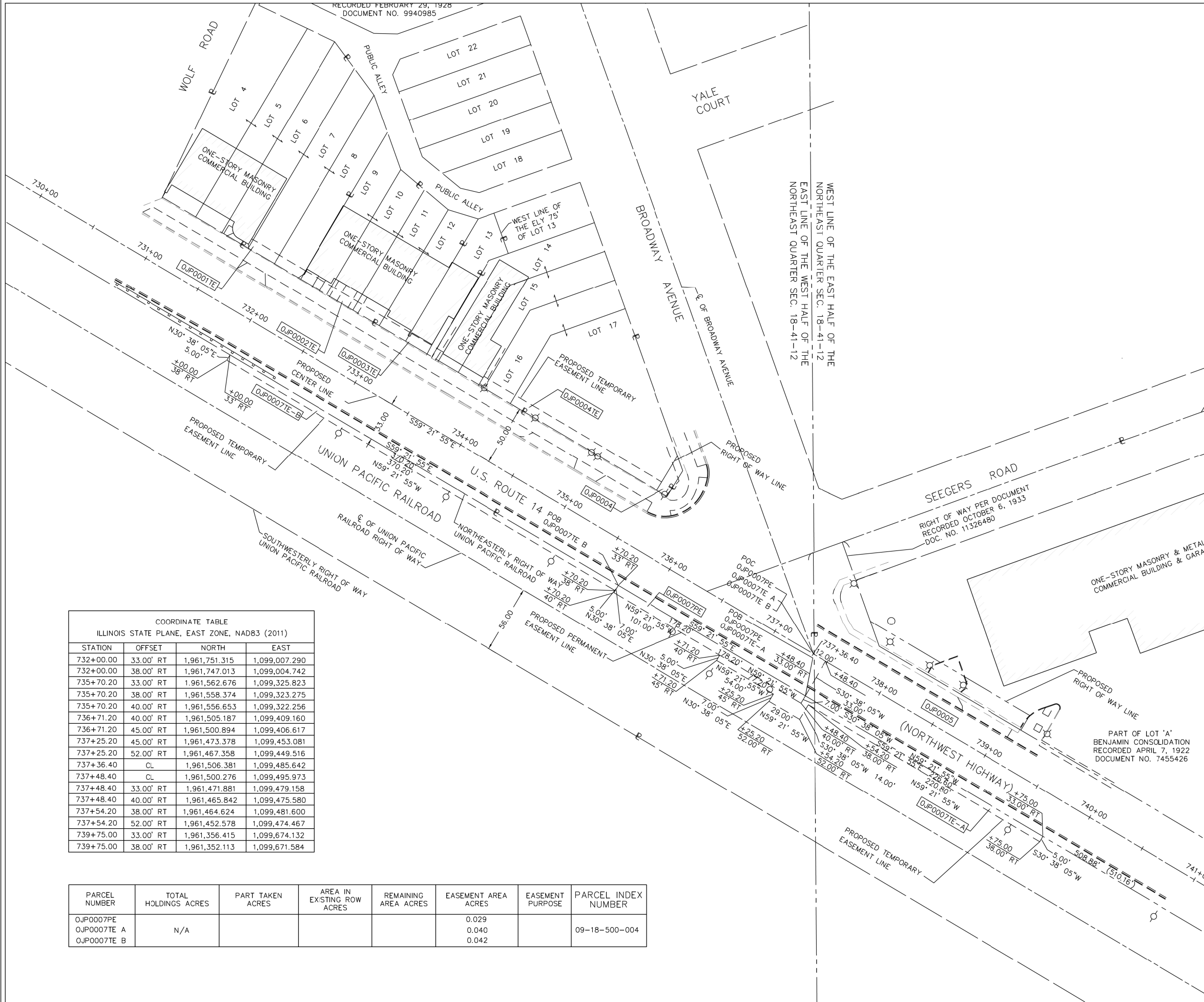
**PLAT OF HIGHWAYS**  
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
US ROUTE 14

LIMITS: US 14 AT BROADWAY AVE COUNTY: COOK

SHEET NO. 51 SECTION: NE1/4 SEC 18 JOB NO.: R-90-004-12  
TOTAL SHEETS 102 STATION 731+45.00 TO STATION 746+94.40  
SCALE: 1"=40' SHEET 3 OF 4

BUREAU OF LAND ACQUISITION  
201 WEST CENTER COURT  
SCHAUMBURG, ILLINOIS 60196

PART OF THE NE 1/4 OF SECTION 18, TWP. 41 N., R. 12 E. OF THE 3RD. P.M., IN COOK COUNTY, ILLINOIS.



**LEGEND**

- EX. ROW LINE
- PROP. ROW LINE
- 1/4 SECTION LINE
- SECTION LINE
- PROPERTY LOT LINE
- EXISTING ROADWAY CENTERLINE
- PROPOSED PERMANENT EASEMENT
- PROPOSED TEMPORARY EASEMENT
- CURB AND GUTTER
- SIDEWALK

**SYMBOL LEGEND**

- POWER POLE
- ⊗ LIGHT POLE
- POB POINT OF BEGINNING
- POC POINT OF COMMENCEMENT

129.32' MEASURED DIMENSION  
 129.32' (COMP) COMPUTED DIMENSION  
 (129.32') RECORDED DIMENSION  
 [ ] EXISTING BUILDING

GRAPHIC SCALE  
 0 40 FEET  
 SCALE: 1" = 40'

ALL DIMENSIONS ARE MEASURED UNLESS OTHERWISE SPECIFIED.

BEARINGS AND DISTANCES SHOWN HEREON REFERENCE THE ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST GRID, NORTH AMERICAN DATUM OF 1983 (2011 ADJUSTMENT) "GRID". ALL MEASURED AND CALCULATED DISTANCES ARE "GRID" NOT "GROUND". TO OBTAIN GROUND DISTANCES, DIVIDE GRID DISTANCES SHOWN BY THE COMBINATION FACTOR OF 0.99996611.

AREAS SHOWN ON PLAT ARE GROUND.

- IRON PIPE OR ROD FOUND
- ⊕ "MAG" NAIL SET
- + CUT CROSS FOUND OR SET
- 5 / 8" REBAR SET
- T1 THESE STAKES REFERENCE FOUND OR SET MONUMENTATION. SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO THE FOUND IRON STAKE IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- T2
- T3
- BT1 THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION. BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO THE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- BT2
- BT3
- STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- M STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- ⊙ PERMANENT SURVEY MARKER, I.D.O.T. STANDARD 2135 (TO BE SET BY OTHERS)
- RIGHT OF WAY STAKING PROPOSED TO BE SET

STATE OF ILLINOIS )  
 )SS  
 COUNTY OF COOK )

THIS IS TO CERTIFY THAT I, DONALD RERICKA, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, (WE, FLUIDCLARITY, LTD. AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184.003912,) HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 18, TOWNSHIP 41 NORTH, RANGE 12 EAST OF THE THIRD PRINCIPAL MERIDIAN, COOK COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT OAK PARK, ILLINOIS THIS DAY OF 2015 A.D.

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 035-003465  
 LICENSE EXPIRATION DATE: 11/30/2016

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

FLUIDCLARITY, LTD.  
 1144 W. LAKE STREET, SUITE 303  
 OAK PARK, ILLINOIS 60301

PLAT OF HIGHWAYS  
 STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 US ROUTE 14  
 LIMITS: US 14 AT BROADWAY AVE COUNTY: COOK  
 SECTION: NE1/4 SEC 18 JOB NO.: R-90-004-12  
 STATION 731+45.00 TO STATION 746+94.40  
 SCALE: 1"=40' SHEET 4 OF 4

BUREAU OF LAND ACQUISITION  
 201 WEST CENTER COURT  
 SCHAUMBURG, ILLINOIS 60196

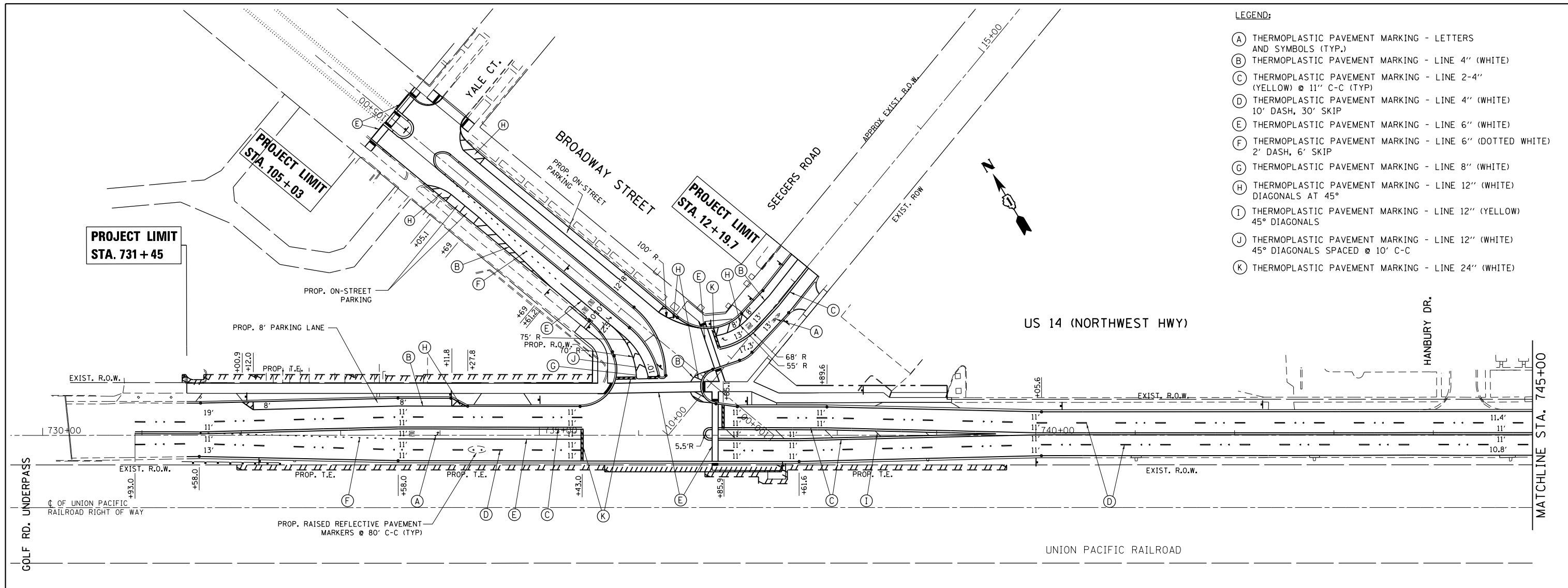
COORDINATE TABLE  
 ILLINOIS STATE PLANE, EAST ZONE, NAD83 (2011)

STATION	OFFSET	NORTH	EAST
732+00.00	33.00' RT	1,961,751.315	1,099,007.290
732+00.00	38.00' RT	1,961,747.013	1,099,004.742
735+70.20	33.00' RT	1,961,562.676	1,099,325.823
735+70.20	38.00' RT	1,961,558.374	1,099,323.275
735+70.20	40.00' RT	1,961,556.653	1,099,322.256
736+71.20	40.00' RT	1,961,505.187	1,099,409.160
736+71.20	45.00' RT	1,961,500.894	1,099,406.617
737+25.20	45.00' RT	1,961,473.378	1,099,453.081
737+25.20	52.00' RT	1,961,467.358	1,099,449.516
737+36.40	CL	1,961,506.381	1,099,485.642
737+48.40	CL	1,961,500.276	1,099,495.973
737+48.40	33.00' RT	1,961,471.881	1,099,479.158
737+48.40	40.00' RT	1,961,465.842	1,099,475.580
737+54.20	38.00' RT	1,961,464.624	1,099,481.600
737+54.20	52.00' RT	1,961,452.578	1,099,474.467
739+75.00	33.00' RT	1,961,356.415	1,099,674.132
739+75.00	38.00' RT	1,961,352.113	1,099,671.584

PARCEL NUMBER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	AREA IN EXISTING ROW ACRES	REMAINING AREA ACRES	EASEMENT AREA ACRES	EASEMENT PURPOSE	PARCEL INDEX NUMBER
OJP0007PE					0.029		
OJP0007TE A	N/A				0.040		09-18-500-004
OJP0007TE B					0.042		



**LEGEND:**

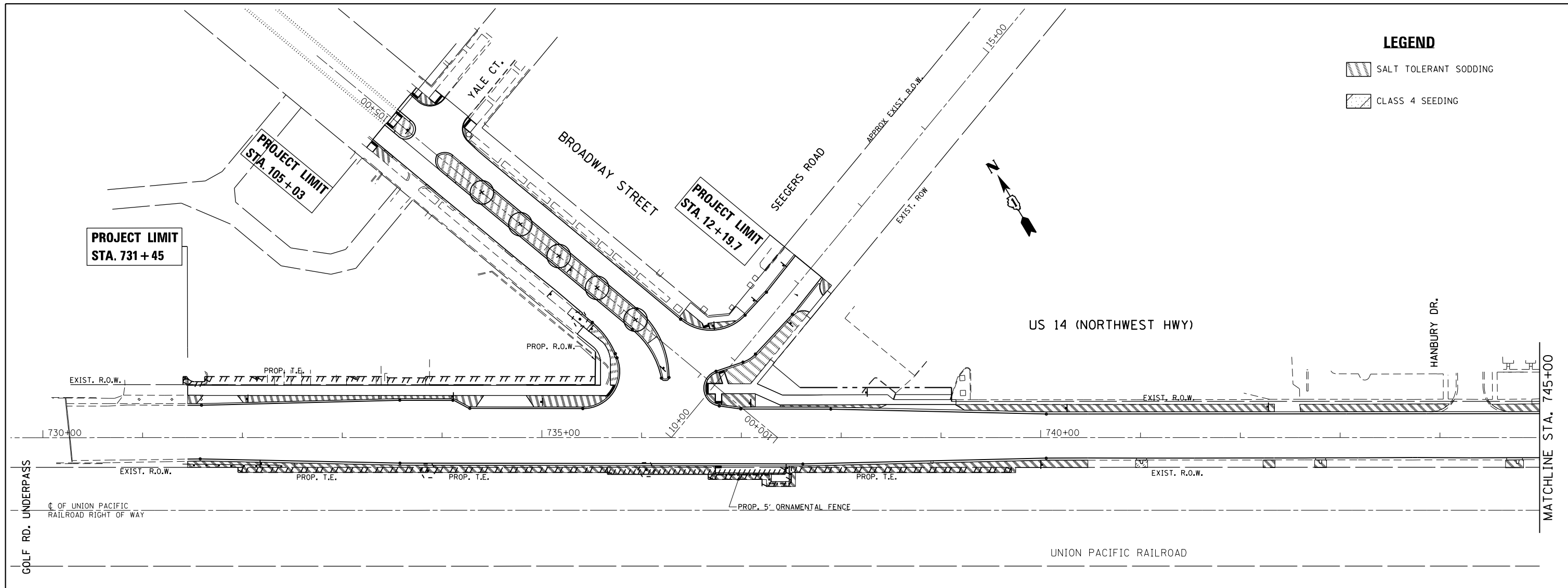
- (A) THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS (TYP.)
- (B) THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE)
- (C) THERMOPLASTIC PAVEMENT MARKING - LINE 2-4" (YELLOW) @ 11" C-C (TYP)
- (D) THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE) 10' DASH, 30' SKIP
- (E) THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE)
- (F) THERMOPLASTIC PAVEMENT MARKING - LINE 6" (DOTTED WHITE) 2' DASH, 6' SKIP
- (G) THERMOPLASTIC PAVEMENT MARKING - LINE 8" (WHITE)
- (H) THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE) DIAGONALS AT 45°
- (I) THERMOPLASTIC PAVEMENT MARKING - LINE 12" (YELLOW) 45° DIAGONALS
- (J) THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE) 45° DIAGONALS SPACED @ 10' C-C
- (K) THERMOPLASTIC PAVEMENT MARKING - LINE 24" (WHITE)



FILE NAME =	USER NAME = bartonr	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PAVEMENT MARKING PLAN U.S. ROUTE 14 AT BROADWAY STREET</b>	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
Default		CHECKED -	REVISED -			3512	87-Y-N	COOK	102	53	
		DATE -	REVISED -			CONTRACT NO. 60J39					
						ILLINOIS FED. AID PROJECT					

**LEGEND**

-  SALT TOLERANT SODDING
-  CLASS 4 SEEDING



FILE NAME =	USER NAME = bartonw	DESIGNED -	REVISED - RWB 11/29/2016
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Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 1/6/2017	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

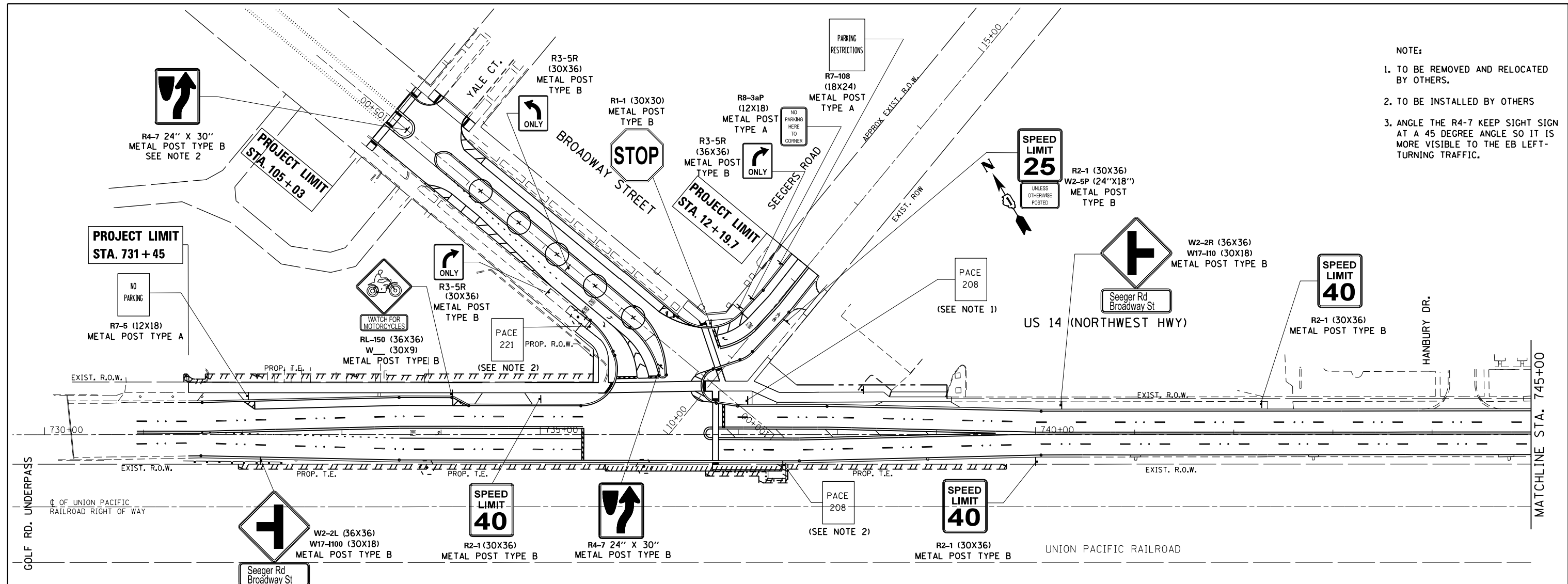
**LANDSCAPING PLAN  
U.S. ROUTE 14 AT BROADWAY STREET**

SCALE: 1" = 50' SHEET 1 OF 1 SHEETS STA. 730+00.00 TO STA. 748+00.00

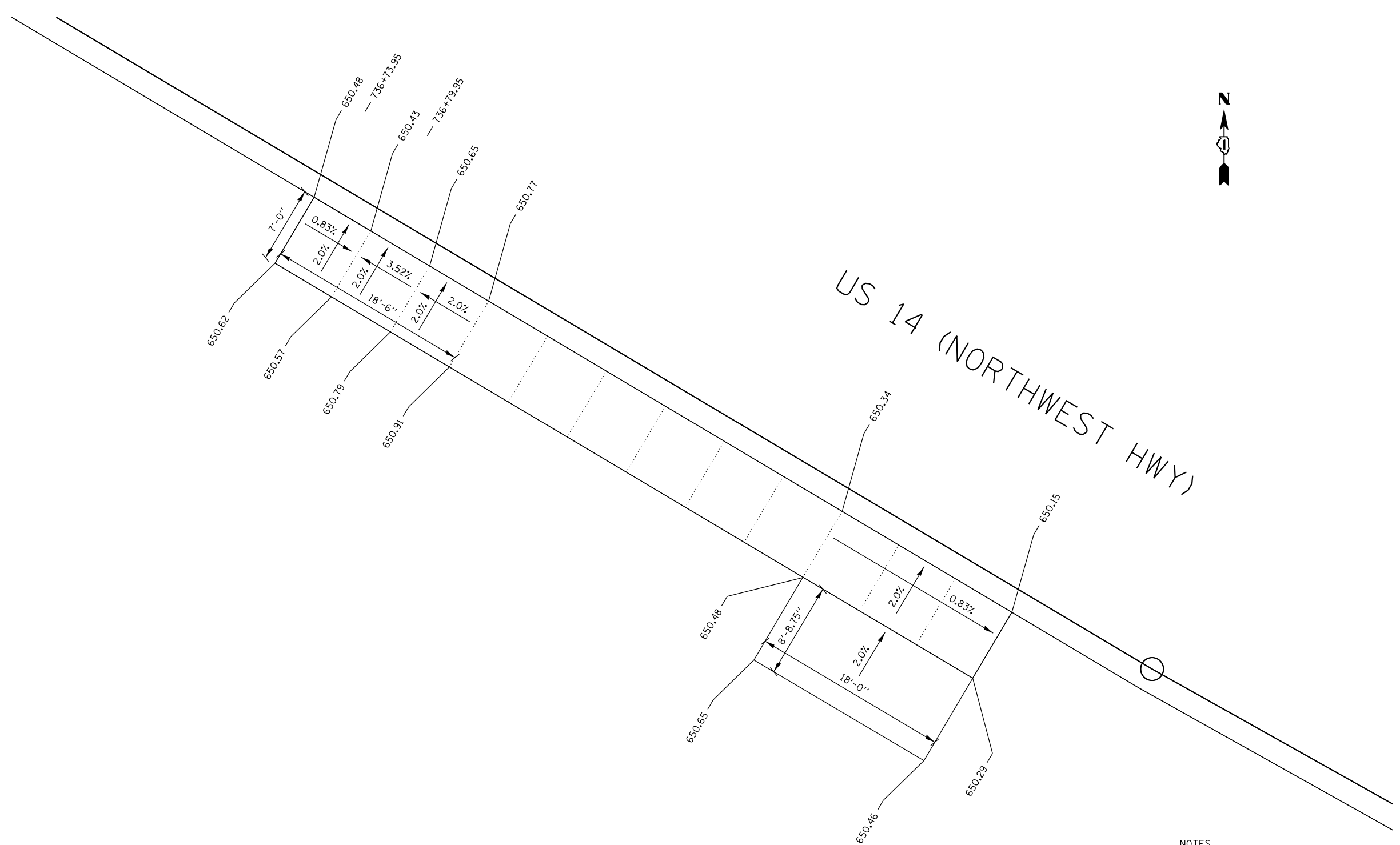
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	87-Y-N	COOK	102	54
CONTRACT NO. 60J39			ILLINOIS FED. AID PROJECT	



- NOTE:
1. TO BE REMOVED AND RELOCATED BY OTHERS.
  2. TO BE INSTALLED BY OTHERS
  3. ANGLE THE R4-7 KEEP SIGHT SIGN AT A 45 DEGREE ANGLE SO IT IS MORE VISIBLE TO THE EB LEFT-TURNING TRAFFIC.



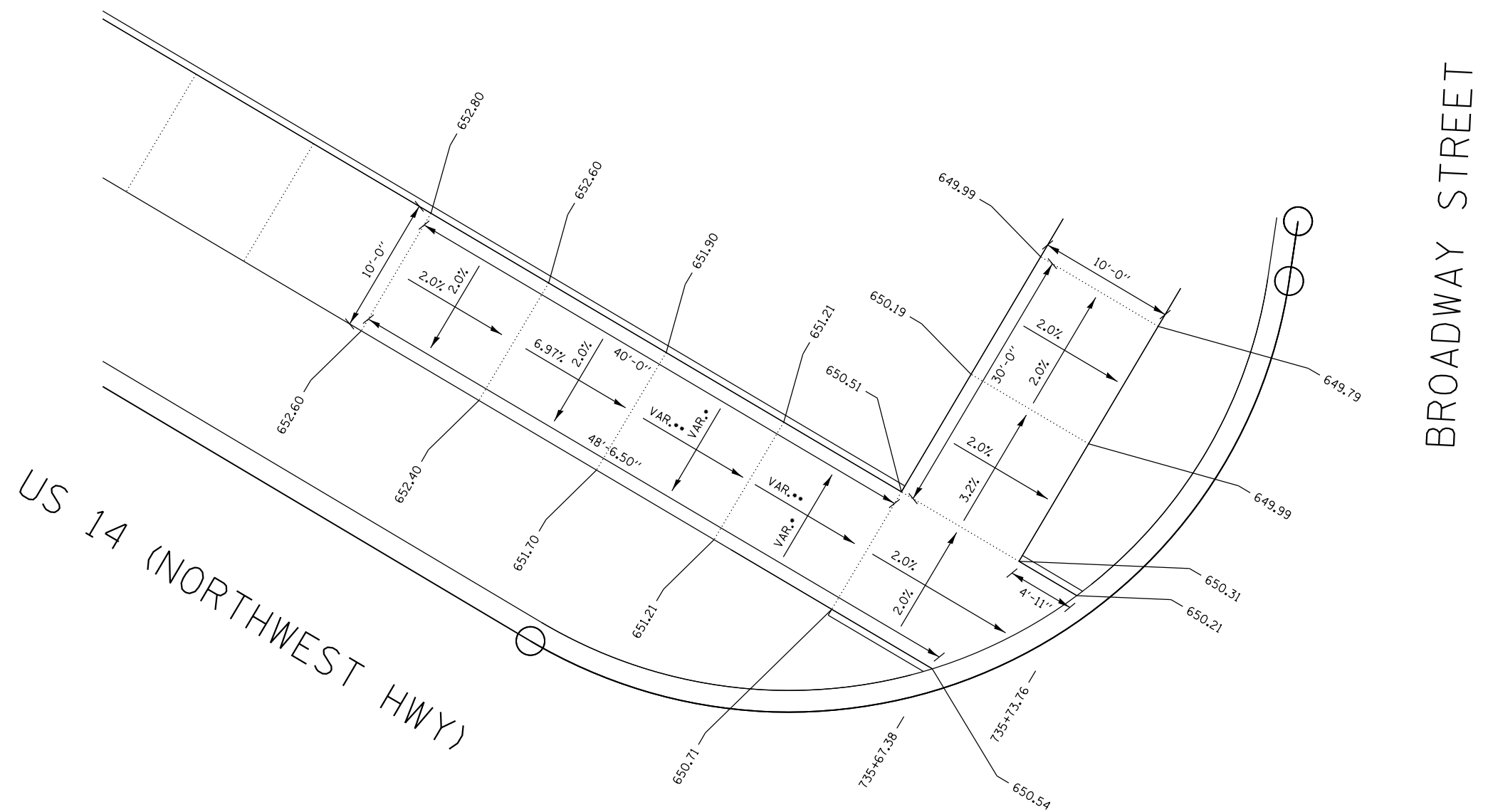
FILE NAME =	USER NAME = bartonw	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PROPOSED SIGNING PLAN U.S. ROUTE 14 AT BROADWAY STREET</b>	F.A.U. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
Default		CHECKED -	REVISED -			3512	87-Y-N	COOK	102	55	
		DATE -	REVISED -			CONTRACT NO. 60J39					
						ILLINOIS FED. AID PROJECT					



US 14 (NORTHWEST HWY)

- NOTES**
- (A) ALL DIMENSIONS ARE ± 0.125"
  - 2.0% MAXIMUM
  - 8.0% MAXIMUM

FILE NAME =	USER NAME = bartonr	DESIGNED - RWB	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SIDWALK DETAIL US ROUTE 14 AT BROADWAY STREET</b>	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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Default	PLLOT SCALE = 10.0000' / in.	DATE - 10/13/2016	REVISED -			<b>CONTRACT NO. 60J39</b>					
	PLLOT DATE = 11/3/2016	DATE - 10/13/2016	REVISED -			ILLINOIS FED. AID PROJECT					
					SCALE: 1" = 5'	SHEET 1 OF 9 SHEETS		STA.	TO STA.		

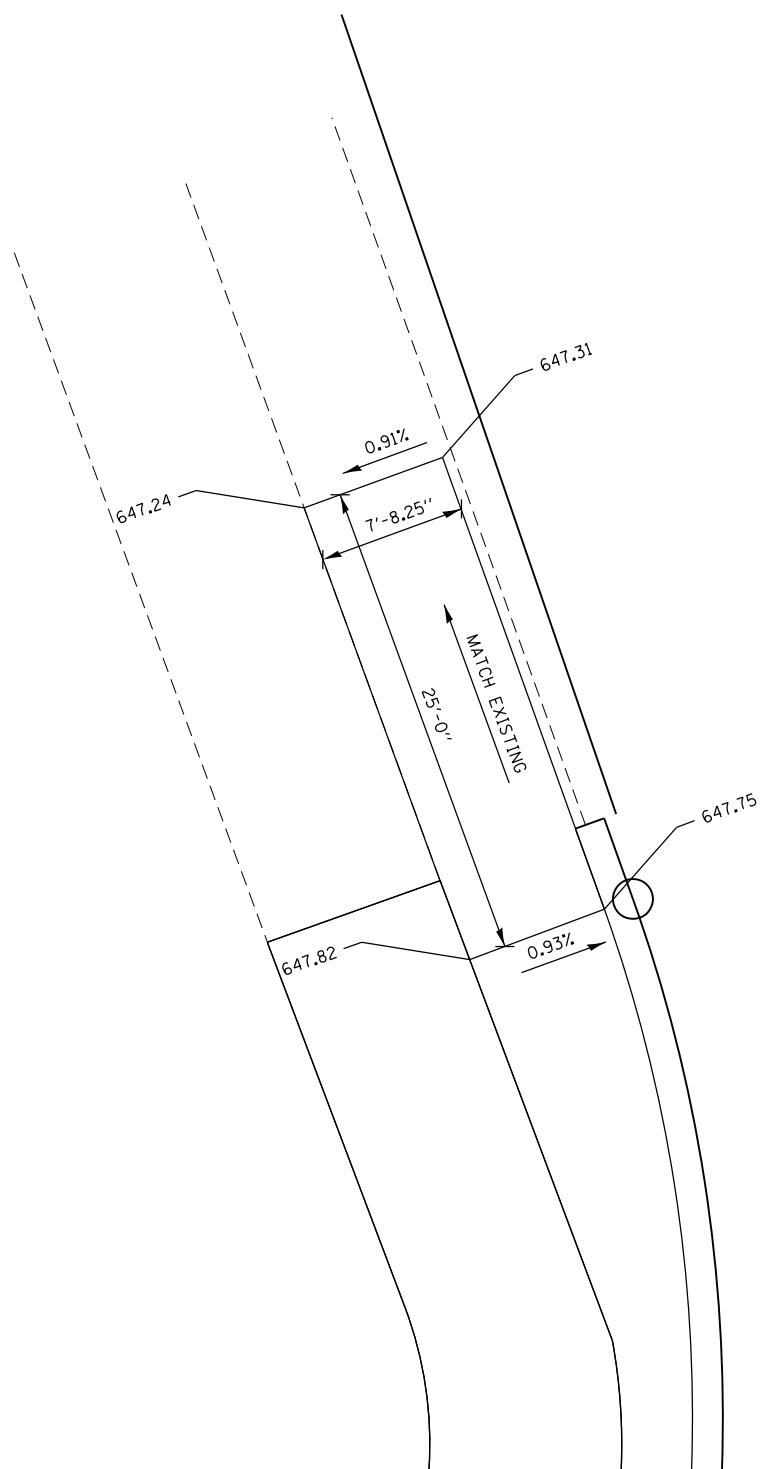


FILE NAME =	USER NAME = bartonrw	DESIGNED - RWB	REVISED -
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Default	PLOT SCALE = 10.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 11/3/2016	DATE - 10/13/2016	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SIDWALK DETAIL  
 US ROUTE 14 AT BROADWAY STREET**  
 SCALE: 1" = 5' SHEET 2 OF 9 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	87-Y-N	COOK	102	57
CONTRACT NO. 60J39				
ILLINOIS FED. AID PROJECT				



BROADWAY STREET

FILE NAME =	USER NAME = bartonrw	DESIGNED - RWB	REVISED -
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Default	PLOT SCALE = 10.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 11/3/2016	DATE - 10/13/2016	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**SIDWALK DETAIL**  
**US ROUTE 14 AT BROADWAY STREET**

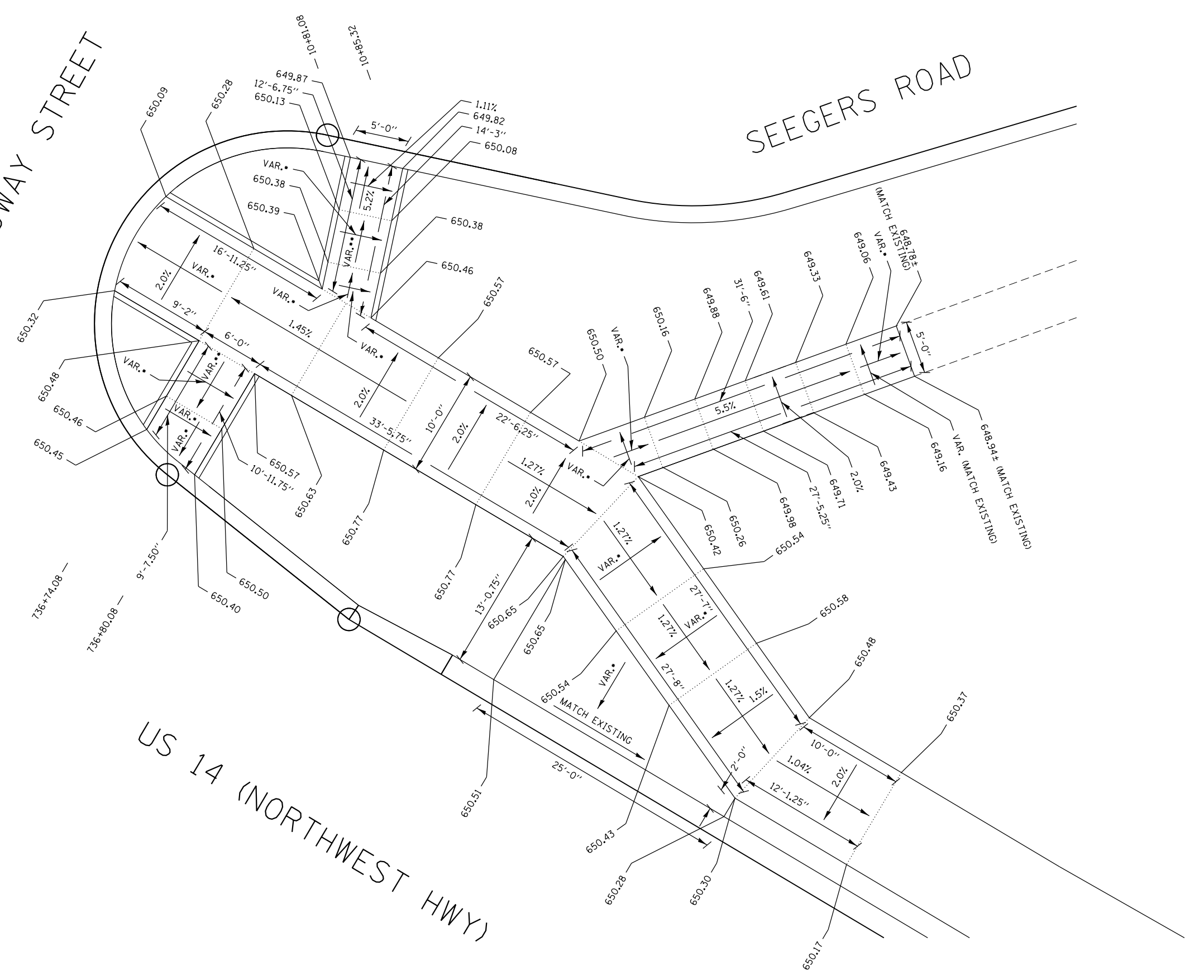
SCALE: 1" = 5'    SHEET 3 OF 9 SHEETS    STA.    TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	87-Y-N	COOK	102	58
CONTRACT NO. 60J39				
ILLINOIS FED. AID PROJECT				

BROADWAY STREET

SEEGERS ROAD

US 14 (NORTHWEST HWY)



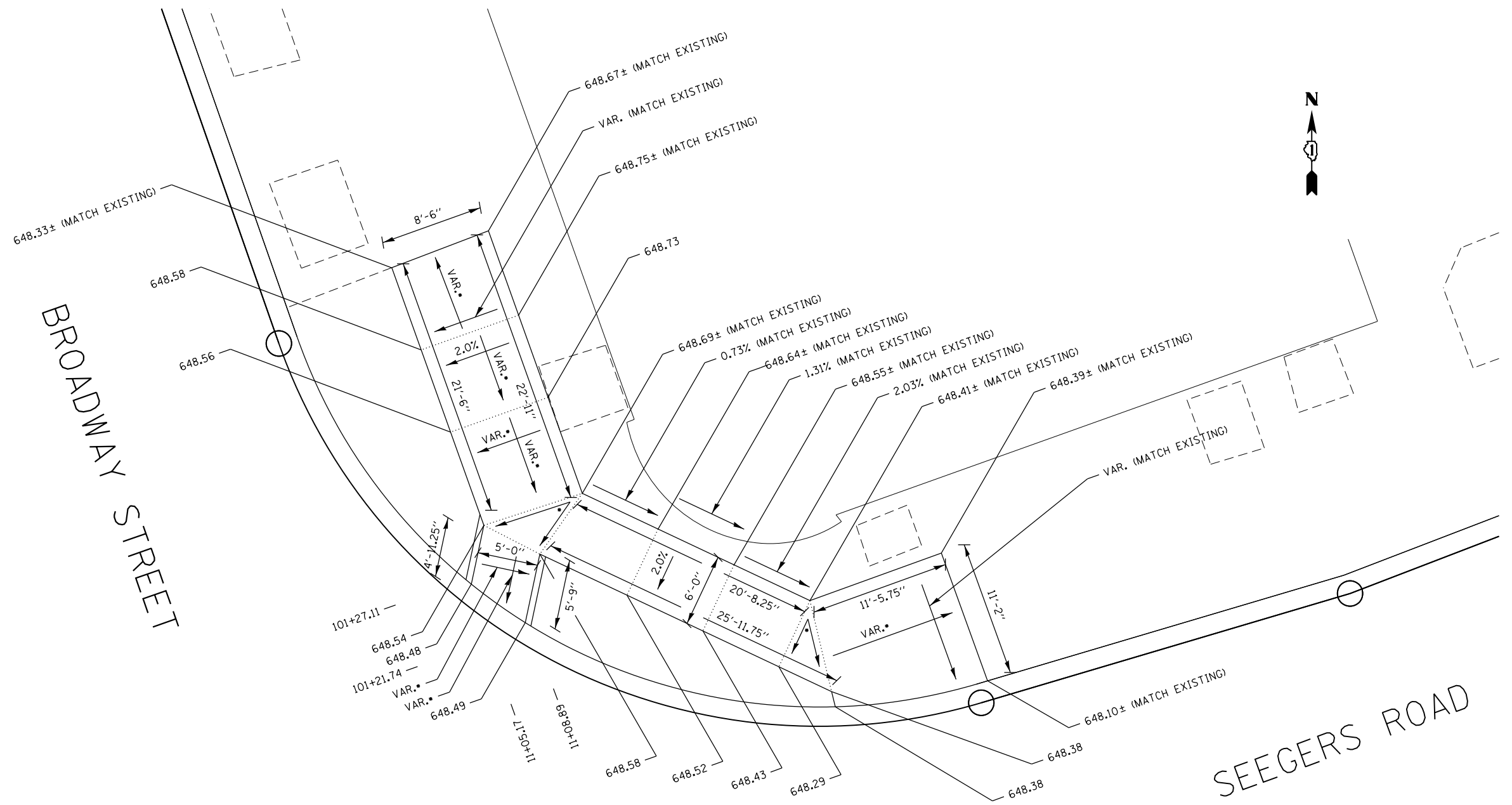
- NOTES
- (A) ALL DIMENSIONS ARE ± 0.125"
  - 2.0% MAXIMUM
  - 8.0% MAXIMUM

FILE NAME =	USER NAME = bartonrw	DESIGNED - RWB	REVISED -
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Default	PLOT SCALE = 10.0000 "/in.	CHECKED -	REVISED -
	PLOT DATE = 11/3/2016	DATE - 10/13/2016	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

<b>SIDEWALK DETAIL</b>			
<b>US ROUTE 14 AT BROADWAY STREET</b>			
SCALE: 1" = 5'	SHEET 4	OF 9 SHEETS	STA. TO STA.

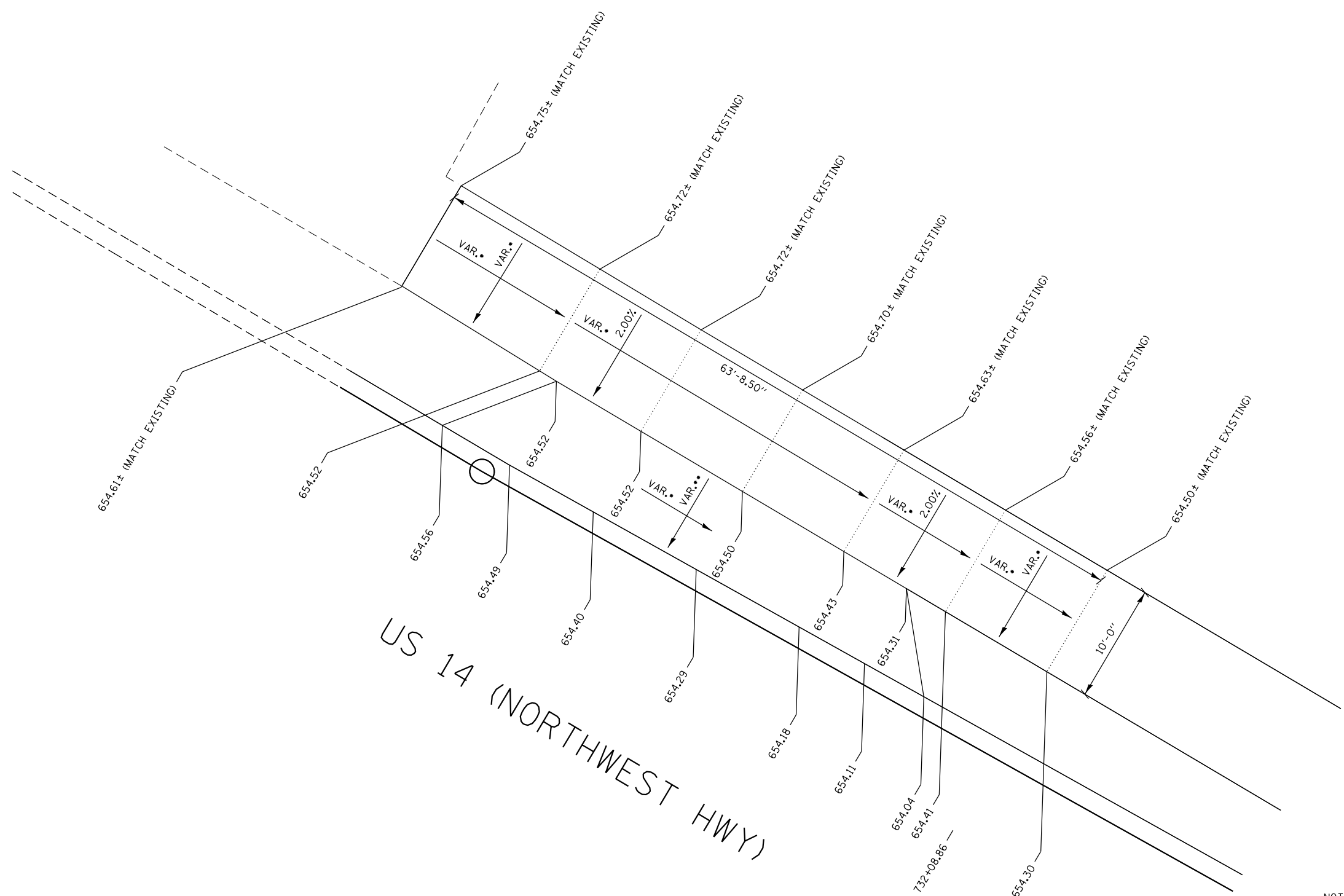
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	87-Y-N	COOK	102	59
CONTRACT NO. 60J39				
ILLINOIS FED. AID PROJECT				



NOTES  
 (A) ALL DIMENSIONS ARE ± 0.125"

- 2.0% MAXIMUM
- 8.0% MAXIMUM

FILE NAME =	USER NAME = bartonw	DESIGNED - RWB	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SIDWALK DETAIL US ROUTE 14 AT BROADWAY STREET</b>	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
pw\11084EBIDINTEG.illinois.gov\PIWIDOT\Documents\DOT Offices\District 1\Projects\P143909\Drawings\Design\RWB-P143909-sht-detail.dwg	10/13/2016	CHECKED -	REVISED -			3512	87-Y-N	COOK	102	60	
PLOT SCALE = 10.0000' / in.	DATE - 10/13/2016	CHECKED -	REVISED -			CONTRACT NO. 60J39					
Default	PLOT DATE = 11/3/2016	DATE - 10/13/2016	REVISED -			ILLINOIS FED. AID PROJECT					

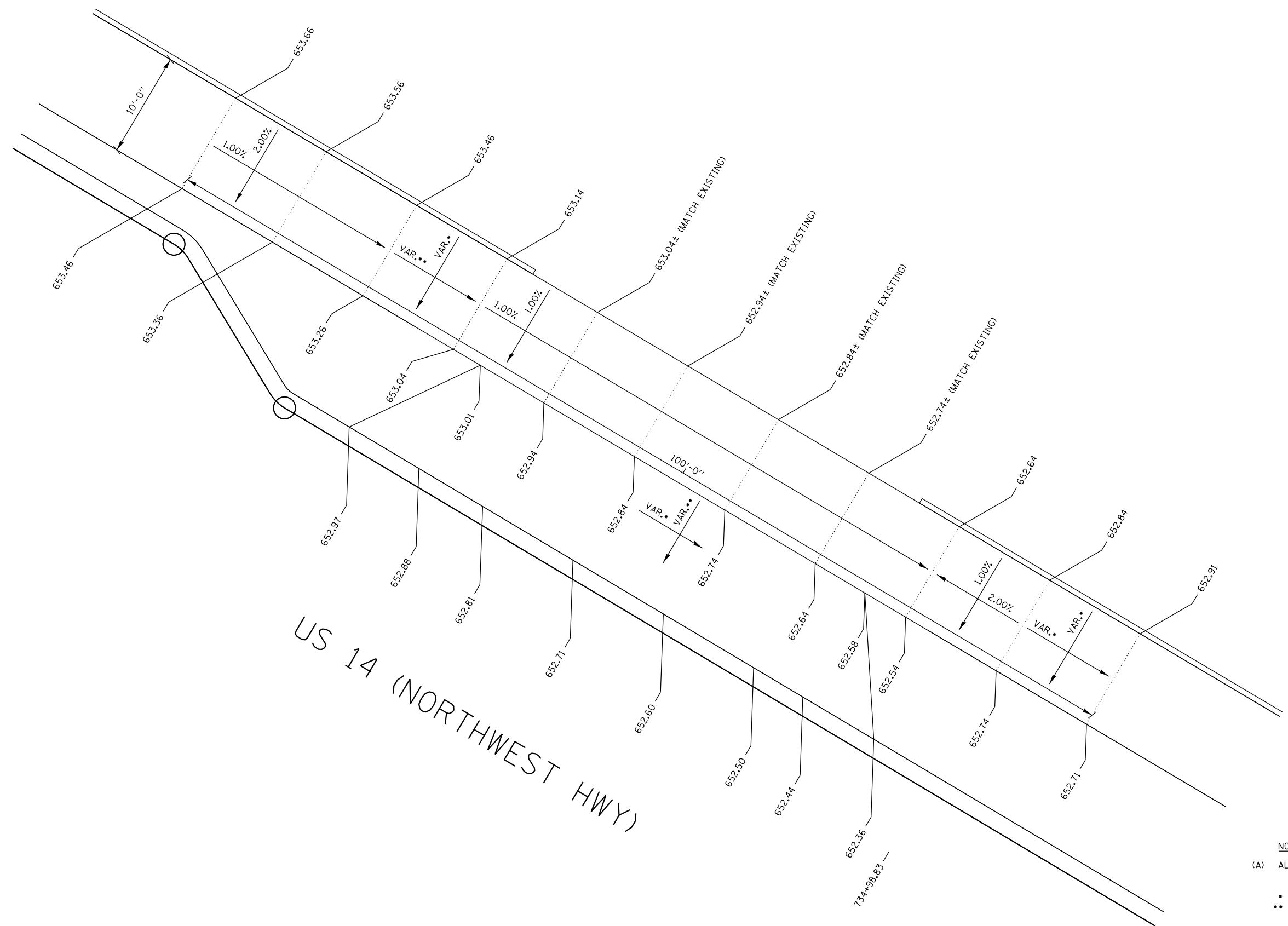


US 14 (NORTHWEST HWY)



- NOTES**
- (A) ALL DIMENSIONS ARE ± 0.125"
  - 2.0% MAXIMUM
  - 8.0% MAXIMUM

FILE NAME =	USER NAME = bartonrw	DESIGNED - RWB	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SIDEWALK DETAIL US ROUTE 14 AT BROADWAY STREET</b>	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw\l\084EBIDINTEG.illinois.gov\PIWIDOT\Documents\IDOT Offices\District 1\Projects\P143909\Drawings\Design\RWB-P143909-shd-detail.dwg	DESIGNED - RWB	REVISED -	3512			87-Y-N	COOK	102	61	
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Default	PLOT DATE = 11/3/2016	DATE - 10/13/2016	REVISED -			SCALE: 1" = 5'	SHEET 6 OF 9 SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT	



US 14 (NORTHWEST HWY)

- NOTES**
- (A) ALL DIMENSIONS ARE ± 0.125"
  - 2.0% MAXIMUM
  - 8.0% MAXIMUM

FILE NAME =	USER NAME = bartonw	DESIGNED - RWB	REVISED -
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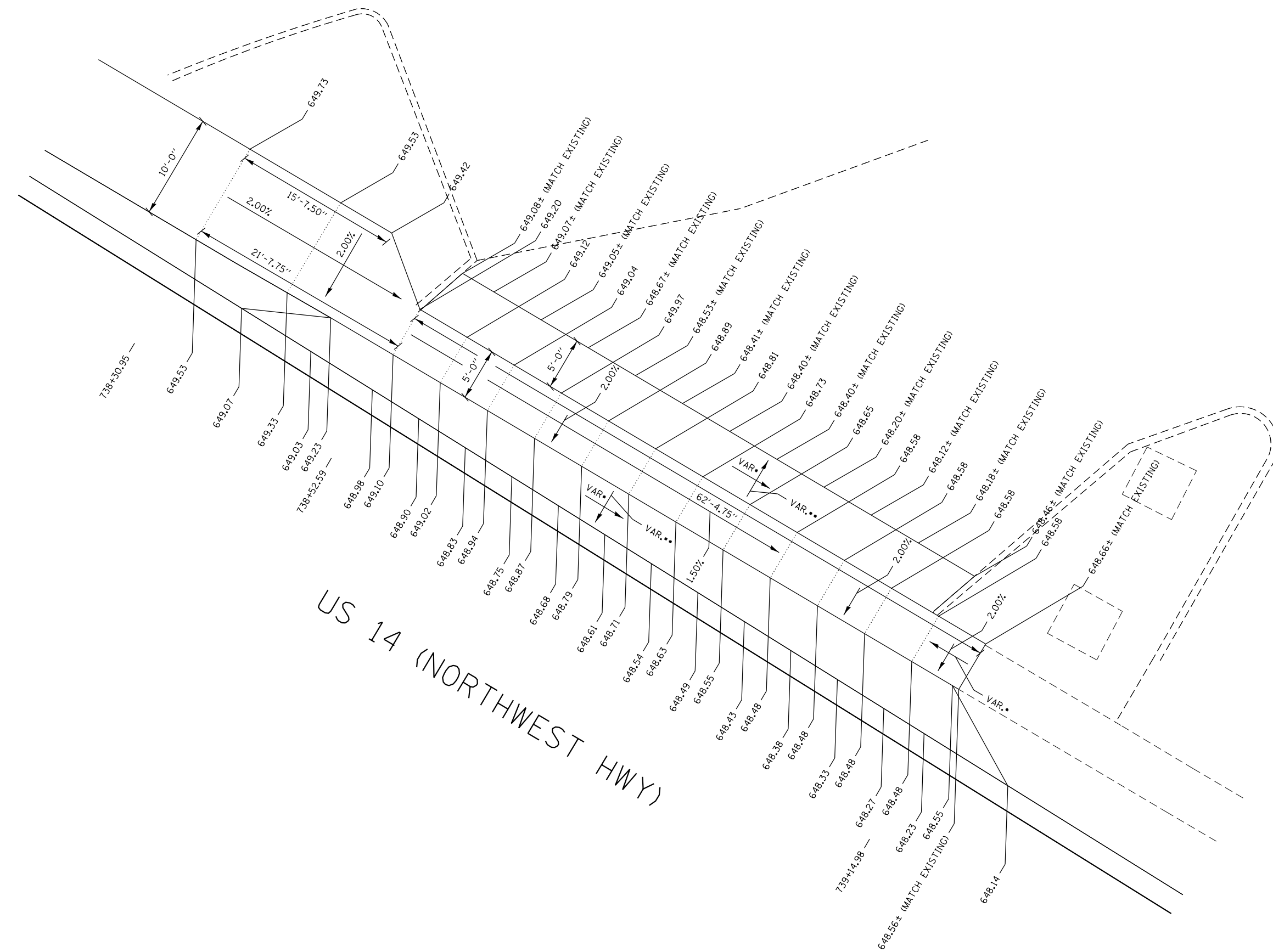
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SIDWALK DETAIL  
US ROUTE 14 AT BROADWAY STREET**

SCALE: 1" = 5'    SHEET 7 OF 9 SHEETS    STA.    TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	87-Y-N	COOK	102	62
CONTRACT NO. 60J39				
ILLINOIS FED. AID PROJECT				





US 14 (NORTHWEST HWY)



- NOTES**
- (A) ALL DIMENSIONS ARE ± 0.125"
- 2.0% MAXIMUM
  - 8.0% MAXIMUM

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Default	PLOT DATE = 11/3/2016	DATE - 10/13/2016	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

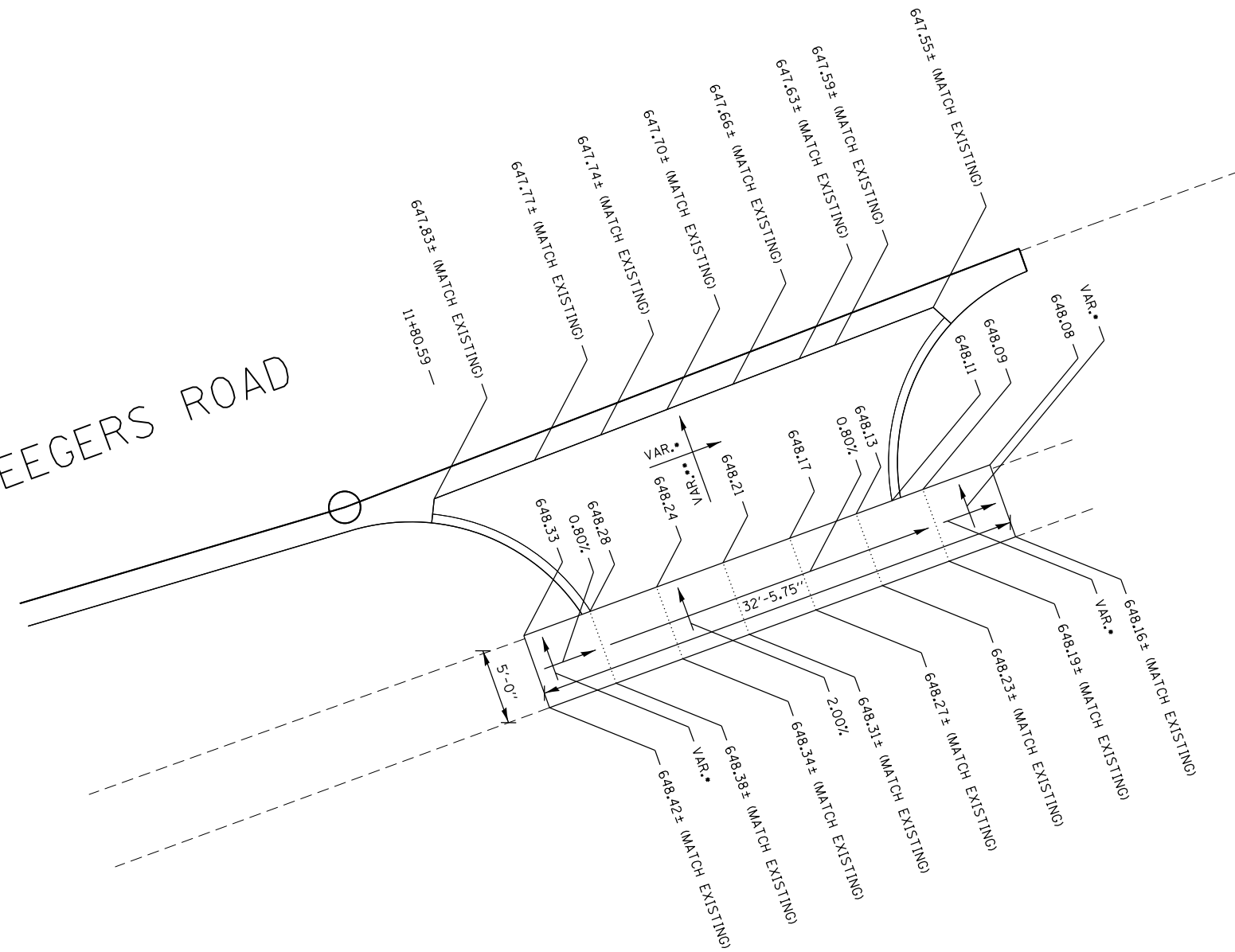
**SIDEWALK DETAIL**  
**US ROUTE 14 AT BROADWAY STREET**

SCALE: 1" = 5'

SHEET 8 OF 9 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	87-Y-N	COOK	102	63
<b>CONTRACT NO. 60J39</b>				
ILLINOIS FED. AID PROJECT				

SEEGERS ROAD



**NOTES**

(A) ALL DIMENSIONS ARE ± 0.125"

- 2.0% MAXIMUM
- 8.0% MAXIMUM

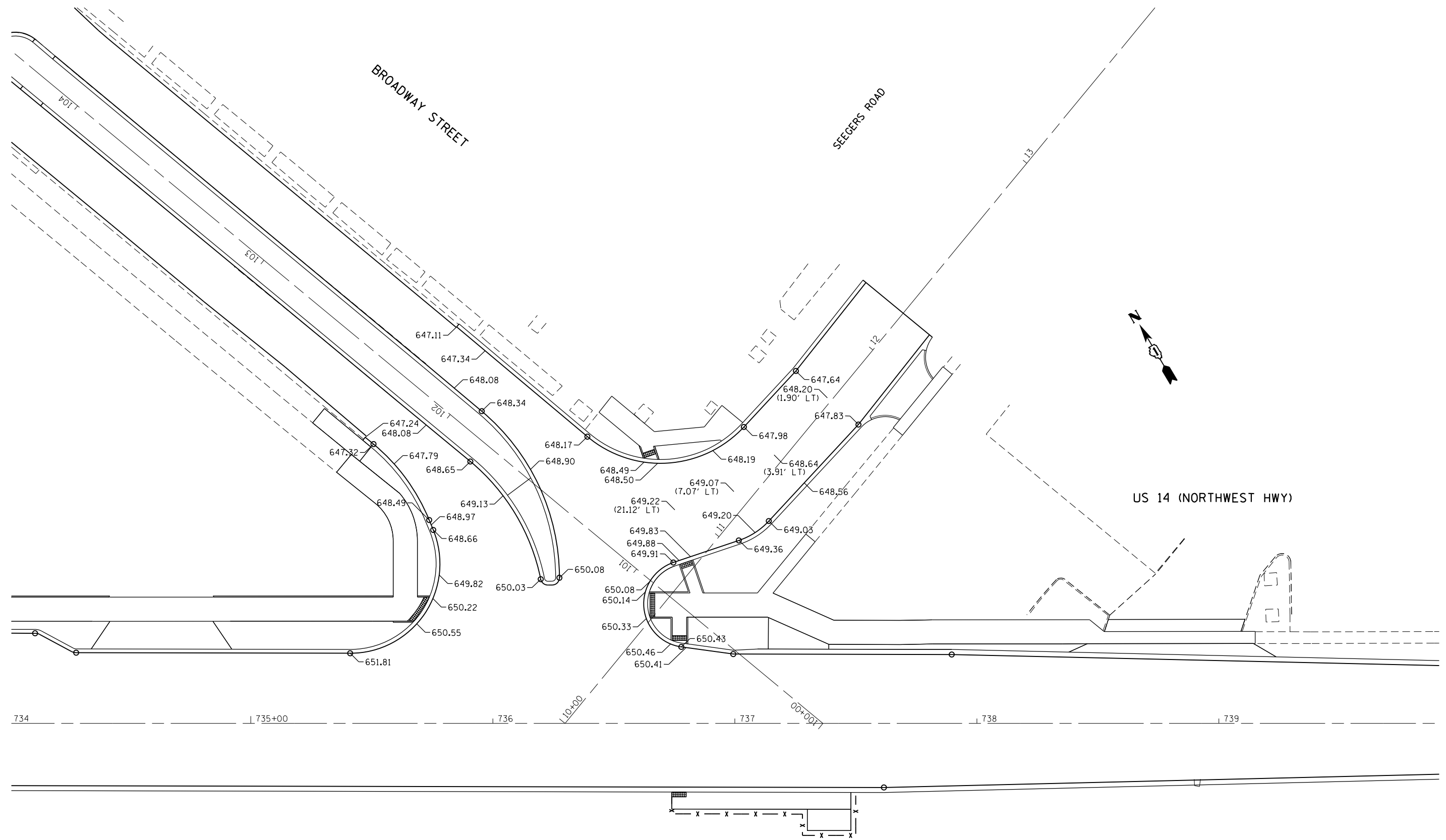
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	PLOT DATE = 11/3/2016	DATE - 10/13/2016	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SIDEWALK DETAIL  
US ROUTE 14 AT BROADWAY STREET**

SCALE: 1" = 5' SHEET 9 OF 9 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	87-Y-N	COOK	102	64
<b>CONTRACT NO. 60J39</b>				
<small>ILLINOIS FED. AID PROJECT</small>				



FILE NAME =	USER NAME = bartonrw	DESIGNED - RWB	REVISED -
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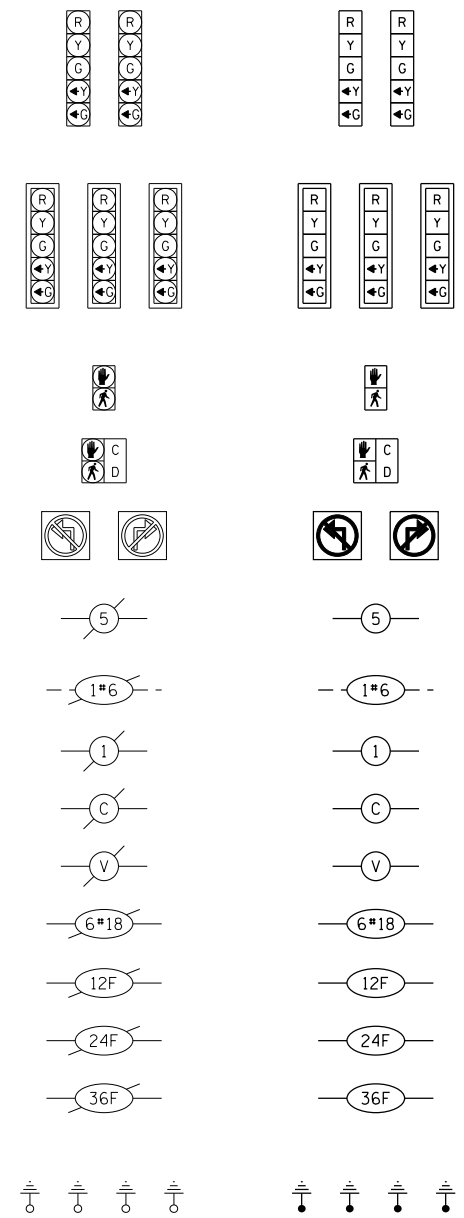
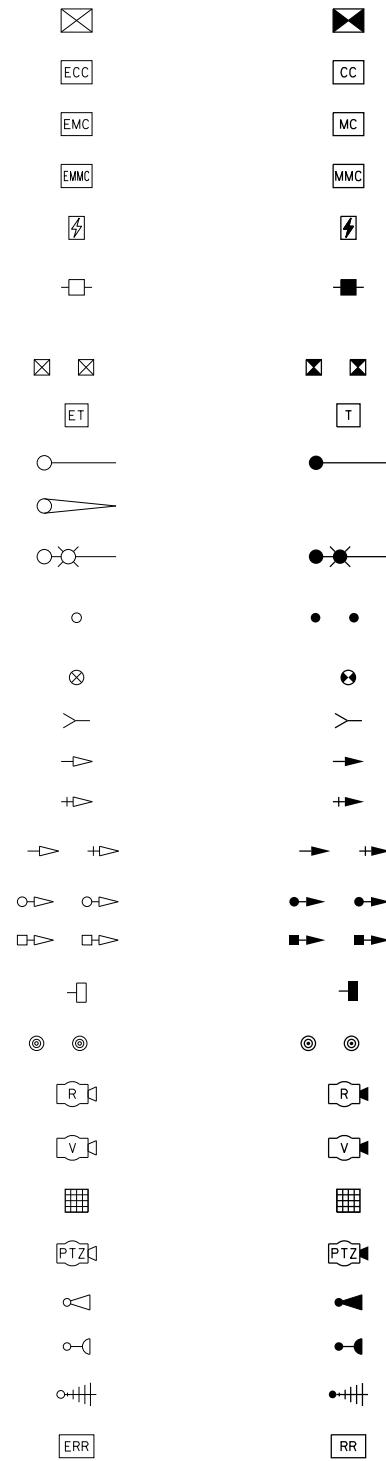
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>ELEVATION DETAIL</b>			
<b>US ROUTE 14 AT BROADWAY STREET</b>			
SCALE: 1" = 20'	SHEET 1	OF 1 SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	87-Y-N	COOK	102	65
CONTRACT NO. 60J39				
ILLINOIS FED. AID PROJECT				

# TRAFFIC SIGNAL LEGEND

(NOT TO SCALE)



FILE NAME = DistStd.dgn	USER NAME = bartonw	DESIGNED - IP	REVISED -
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		DATE - 9/29/2016	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE  
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

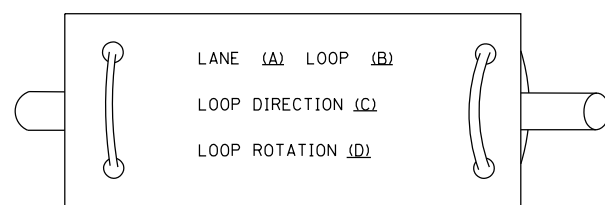
SCALE: NONE    SHEET 1 OF 7 SHEETS    STA.    TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	87-Y-N	COOK	102	66
<b>TS-05</b>			<b>CONTRACT NO. 60J39</b>	
ILLINOIS FED. AID PROJECT				

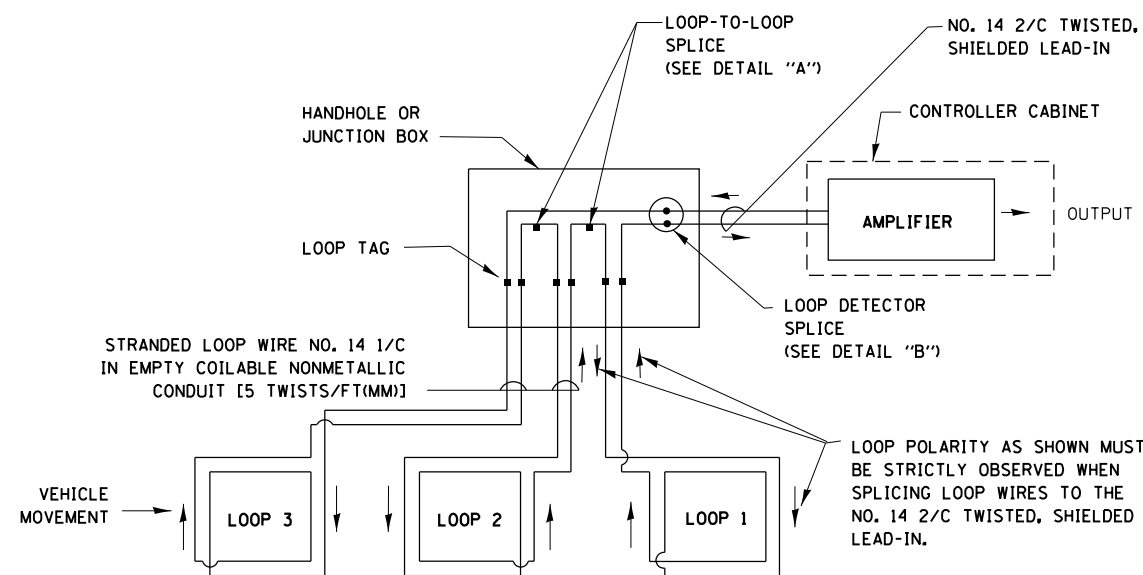
**LOOP DETECTOR NOTES**

1. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE EMPTY COILABLE NONMETALLIC CONDUIT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). EMPTY COILABLE NONMETALLIC CONDUIT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.
2. THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.
3. EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.
4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.
5. IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVEHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.
6. LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.
7. PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

**LOOP LEAD-IN CABLE TAG**

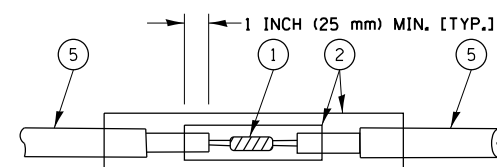


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

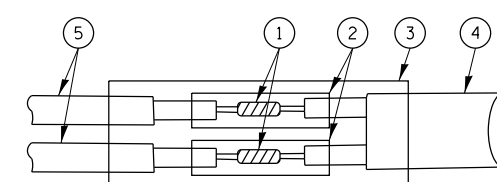


**DETECTOR LOOP WIRING SCHEMATIC**

- LOOPS SHALL BE SPLICED IN SERIES.
- SAW-CUTS SHALL BE A MINIMUM WIDTH OF 5/16" (8 mm).
- SAW-CUT DEPTHS SHALL BE 3" (75 mm). IF IN CONCRETE, THE SAW-CUT DEPTH SHALL BE TO THE TOP OF THE REINFORCEMENT.
- LOOP CORNERS SHALL BE DRILLED WITH A 2" (50 mm) DIAMETER CORE.

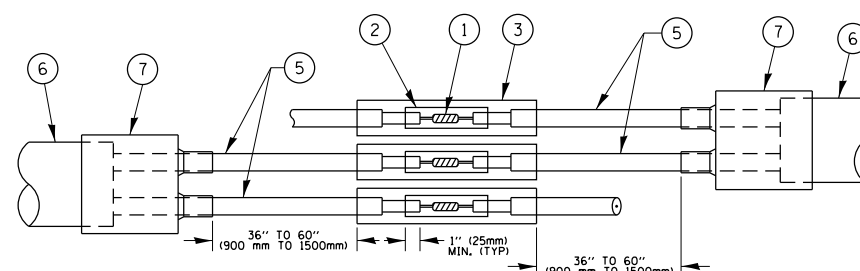


**DETAIL "A"  
LOOP-TO-LOOP SPLICE**

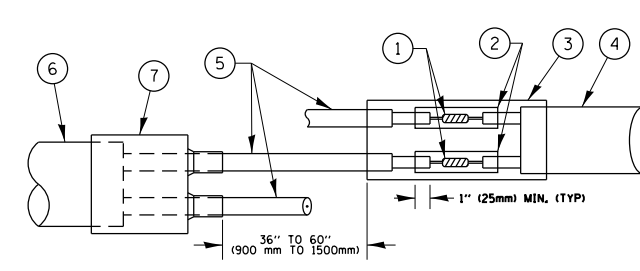


**DETAIL "B"  
LOOP-TO-CONTROLLER SPLICE**

**TYPE I LOOP**



**DETAIL "A"  
LOOP-TO-LOOP SPLICE**



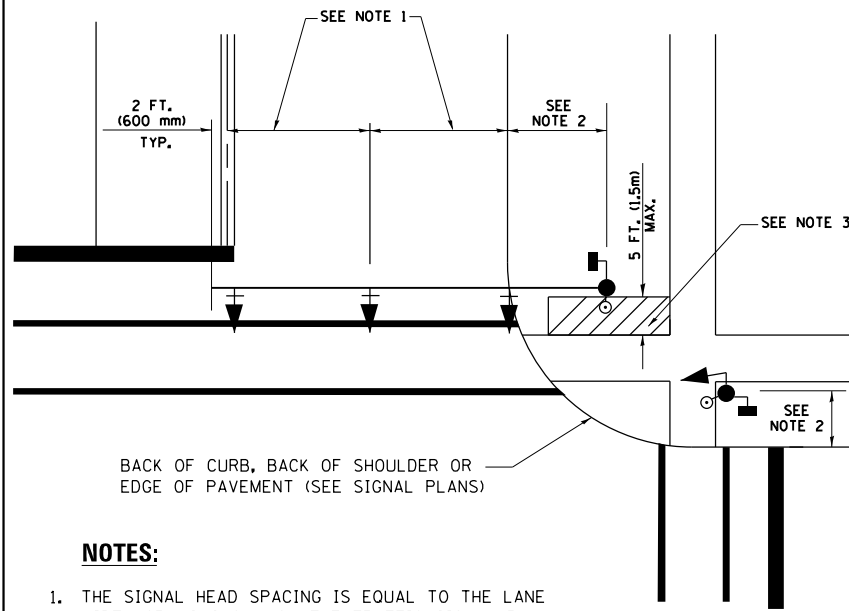
**DETAIL "B"  
LOOP-TO-CONTROLLER SPLICE**

**PRE-FORMED LOOP**

**LOOP DETECTOR SPLICE**

- ① WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH, THE WESTERN UNION SPLICES SHALL BE STAGGERED.
- ② WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- ③ WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGTH 6" (150 mm), UNDERWATER GRADE.
- ④ NO. 14 2/C TWISTED, SHIELDED CABLE.
- ⑤ LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.
- ⑥ PRE-FORMED LOOP
- ⑦ XL POLYOLEFIN 2 CONDUCTOR BREAKOUT SEALS, TYCO CBR-2 OR APPROVED EQUAL

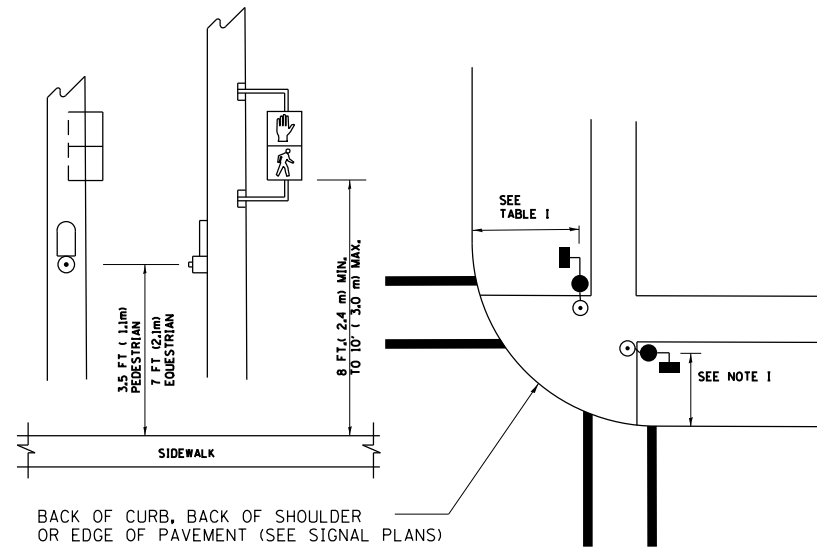
**TRAFFIC SIGNAL MAST ARM AND SIGNAL POST  
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR  
FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN  
WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.**



**NOTES:**

1. THE SIGNAL HEAD SPACING IS EQUAL TO THE LANE WIDTH OR AS SHOWN ON THE TRAFFIC SIGNAL PLAN.
2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
3. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST ARM SHAFT OR THE SIGNAL POST.
4. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
5. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

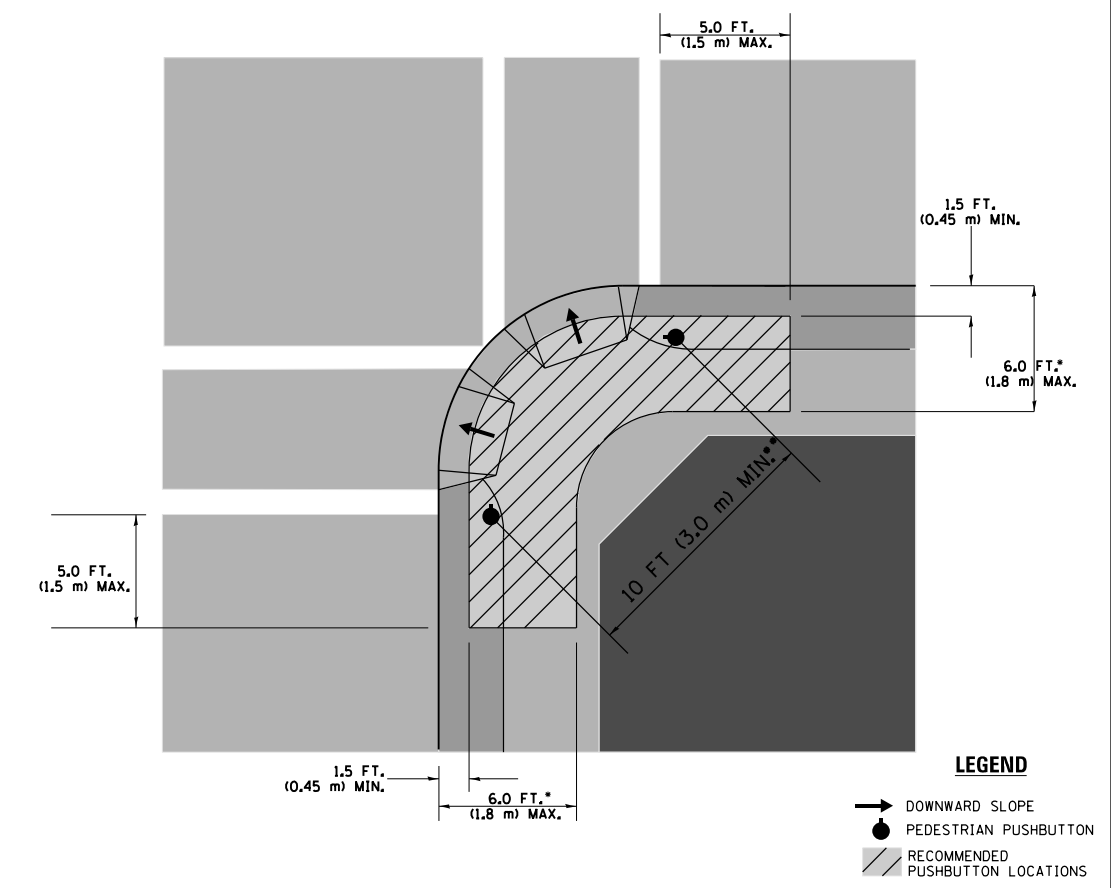
**PEDESTRIAN SIGNAL POST  
AND  
PEDESTRIAN PUSH BUTTON POST**



**NOTES:**

1. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
2. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE PEDESTRIAN SIGNAL POST OR THE PEDESTRIAN PUSH BUTTON POST.
3. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
4. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

**RECOMMENDED PUSHBUTTON LOCATIONS**



**LEGEND**

- DOWNWARD SLOPE
- PEDESTRIAN PUSHBUTTON
- ▨ RECOMMENDED PUSHBUTTON LOCATIONS

- WHERE THERE ARE CONSTRAINTS THAT MAKE IT IMPRACTICAL TO PLACE THE PEDESTRIAN PUSHBUTTON BETWEEN 1.5 FT (0.45 m) AND 6 FT ( 1.8 m) FROM THE EDGE OF THE CURB, SHOULDER, OR PAVEMENT, IT SHOULD NOT BE FURTHER THAN 10 FT (3 m) FROM THE EDGE OF CURB, SHOULDER, OR PAVEMENT.
- WHERE THERE ARE CONSTRAINTS ON A PARTICULAR CORNER THAT MAKE IT IMPRACTICAL TO PROVIDE THE 10 FT (3 m) SEPERATION BETWEEN THE TWO PEDESTRIAN PUSHBUTTONS, THE PUSHBUTTONS MAY BE PLACED CLOSER TOGETHER OR ON THE SAME POLE.

**NOTES:**

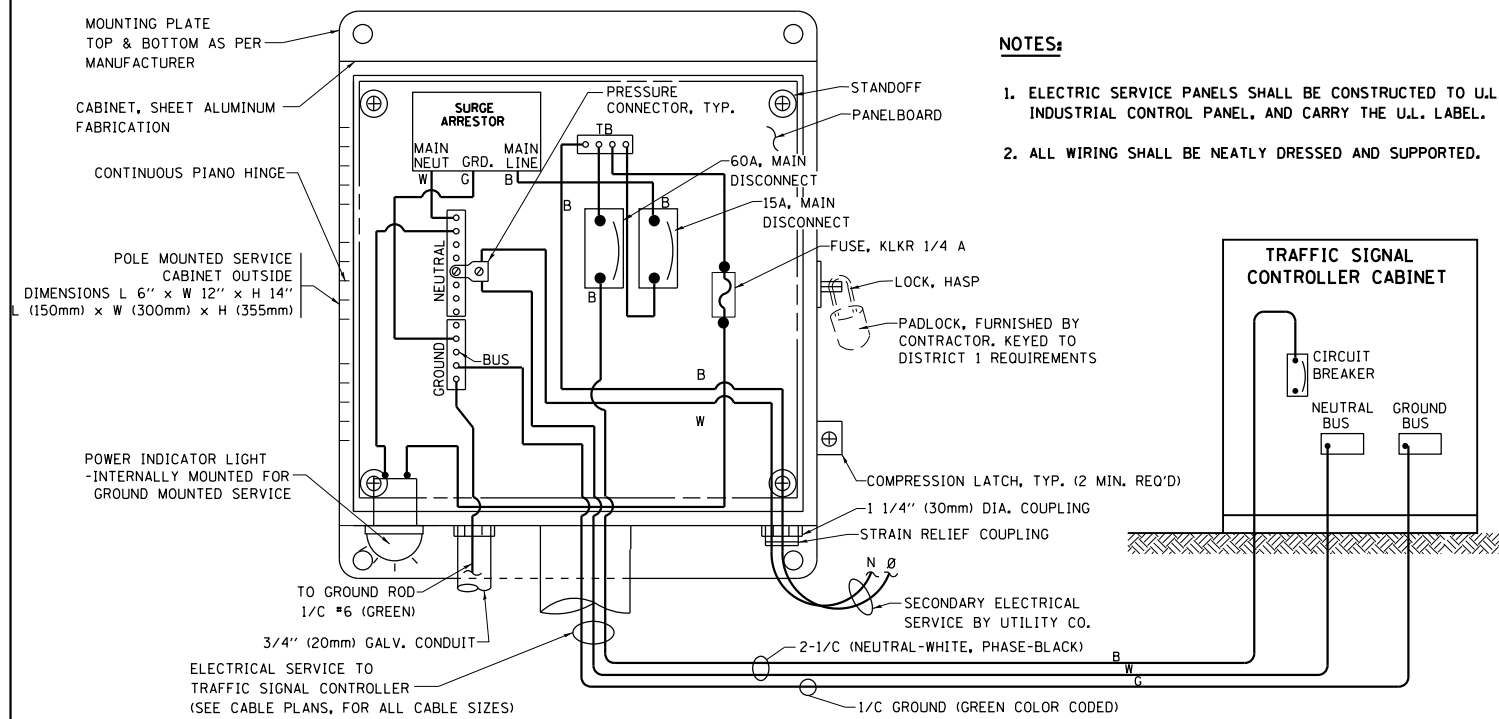
1. PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 8 FT (2.4 m) OR MORE THAN 10 FT (3 m) ABOVE SIDEWALK LEVEL, AND SHALL BE POSITIONED AND ADJUSTED TO PROVIDE MAXIMUM VISIBILITY AT THE BEGINNING OF THE CONTROLLED CROSSWALK.
2. THE BOTTOM OF THE SIGNAL HOUSING (INCLUDING BRACKETS) OF A VEHICULAR SIGNAL FACE THAT IS NOT LOCATED OVER A HIGHWAY SHALL BE AT LEAST 8 FT (2.4 m) BUT NOT MORE THAN 19 FT (5.8 m) ABOVE THE SIDEWALK OR, IF THERE IS NO SIDEWALK, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE ROADWAY.
3. THE BOTTOM OF THE SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001, 877002, 877006, 877011 AND 877012 WITH A MINIMUM OF 16 FT (5.0 m) AND A MAXIMUM OF 18 FT. (5.5 m) FROM THE HIGHEST POINT OF PAVEMENT.
4. THE BOTTOM OF THE TEMPORARY SPAN WIRE MOUNTED SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARD 880001 WITH A MINIMUM OF 17 FT (5.18 m) FROM THE HIGHEST POINT OF PAVEMENT.
5. THE TOP OF THE SIGNAL HOUSING OF A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL NOT BE MORE THAN 25.6 FT (7.8 m) ABOVE THE PAVEMENT.

**TRAFFIC SIGNAL EQUIPMENT OFFSET**

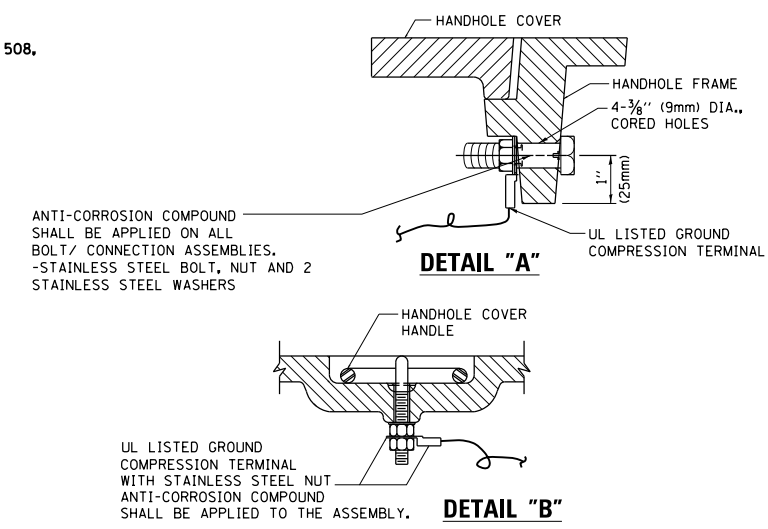
TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN PUSHBUTTON POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TEMPORARY WOOD POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
CONTROLLER CABINET	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.
SERVICE INSTALLATION, GROUND MOUNT	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.

**NOTES:**

1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
3. MINIMUM DISTANCE FROM THE EDGE OF PAVEMENT TO THE ROADWAY SIDE OF THE FOUNDATION.
4. ANY CHANGES TO THE OFFSETS OF THE FOUNDATIONS, FROM THE MINIMUM DISTANCES LISTED IN THE "TRAFFIC SIGNAL EQUIPMENT OFFSET" CHART AND THE TRAFFIC SIGNAL INSTALLATION PLAN, COULD EFFECT THE PLACEMENT OF THE SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS AND THE PEDESTRIAN PUSHBUTTONS. THE SIGNAL HEAD PLACEMENT ON THE MAST ARMS SHALL REMAIN AS PER THE TRAFFIC SIGNAL INSTALLATION PLAN AND THE "TRAFFIC SIGNAL MAST ARM AND SIGNAL POST" DETAIL ABOVE. THE PROPOSED MAST ARM LENGTHS MAY NEED TO BE REVISED TO MEET THE ABOVE REQUIREMENTS. THE PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS MUST MEET THE REQUIREMENTS UNDER THE DETAILS ON THIS SHEET.

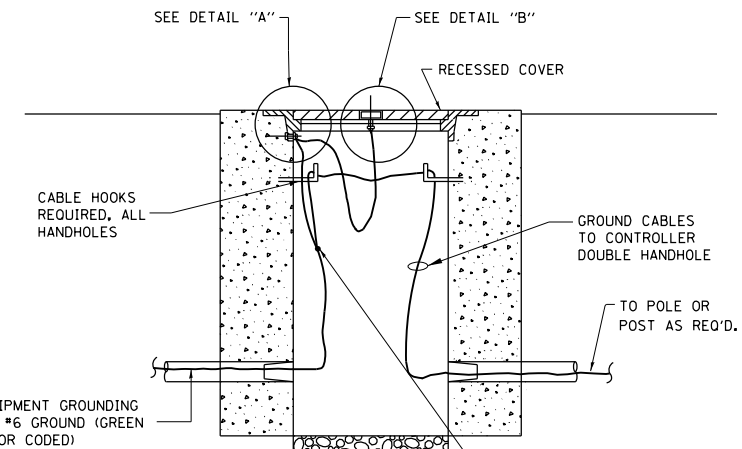


**ELECTRICAL SERVICE – PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)  
SERVICE INSTALLATION POLE MOUNT (SHOWN)  
(NOT TO SCALE)**

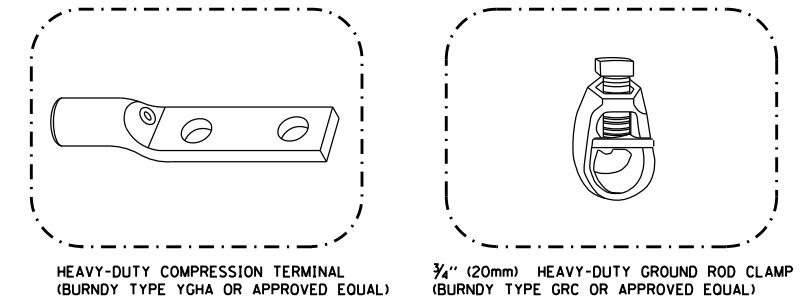


**NOTES:  
GROUNDING SYSTEM**

1. THE GROUNDING SYSTEM SHALL CONSIST OF AN INSULATED CONDUCTOR TYPE XLP, NO. 6 A.W.G., STRANDED COPPER TO BE INSTALLED IN RACEWAYS. THE GROUNDING CABLE SHALL BE INSTALLED IN A CONTINUOUS MANNER AS SHOWN ON THE CABLE PLAN ENCLOSED. ALL GROUNDING CONDUCTORS SHALL BE BONDED TO METAL ENCLOSURE (HANDHOLE, POST, MAST ARM, CONTROLLER, ETC.). GROUND ROD SHALL BE 3/4" DIA. x 10'-0" (20mm x 3.0m) LONG, COPPER CLAD. ONE GROUND ROD SHALL BE INSTALLED AT ALL POST FOUNDATIONS, POLE FOUNDATIONS, CONTROLLER CABINET FOUNDATION AND ELECTRICAL SERVICE INSTALLATION AS INDICATED ON THE CABLE PLAN. IF THERE ARE ANY SPECIAL CONDITIONS SUCH AS SUB-SURFACE CONDITIONS OR INSTALLATION PROBLEMS, THE RESIDENT ENGINEER SHALL BE NOTIFIED OR CONTACT THE BUREAU OF TRAFFIC, ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE AT (847) 705-4139.
2. THE NEUTRAL CONDUCTOR AND THE GROUND CONDUCTOR SHALL BE CONNECTED IN THE SERVICE INSTALLATION. AT NO OTHER POINT IN THE TRAFFIC SIGNAL SYSTEM SHALL THE NEUTRAL AND GROUND CONDUCTORS BE CONNECTED.
3. ALL EQUIPMENT GROUNDING CONDUCTORS SHALL TERMINATE AT THE GROUND BUS IN THE CONTROLLER CABINET.
4. THE CONTRACTOR SHALL PROVIDE A GROUND CABLE WITH CONNECTORS BETWEEN THE HANDHOLE COVER AND HANDHOLE FRAME.

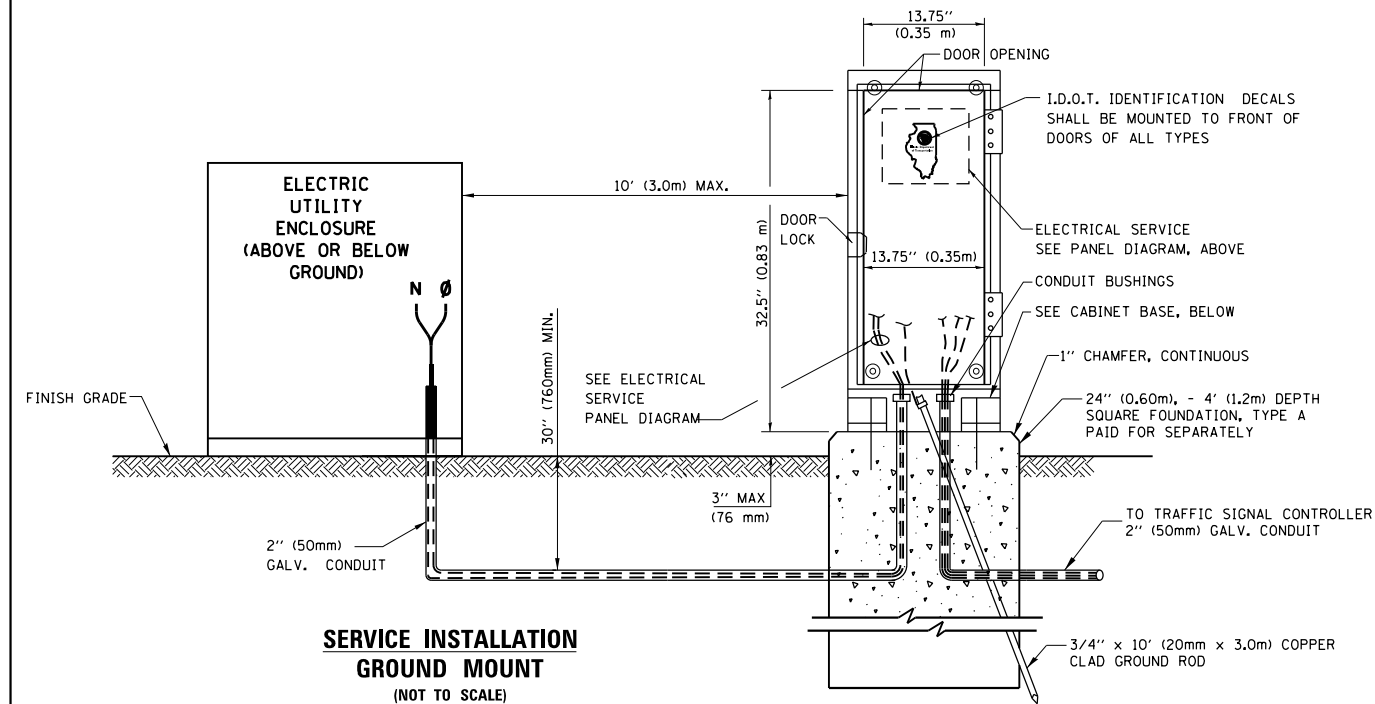


**HANDHOLE COVER & FRAME – GROUNDING DETAIL  
(NOT TO SCALE)**

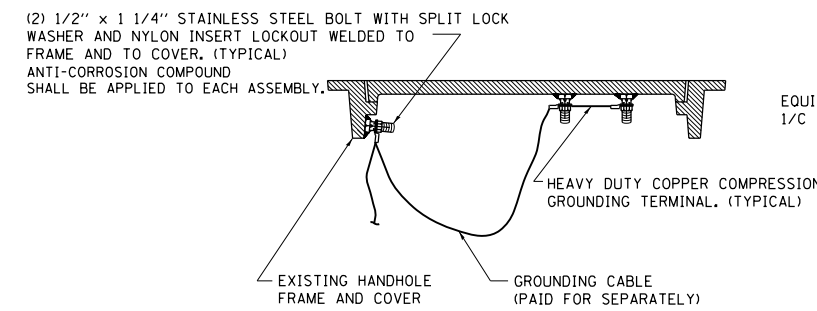


**NOTES:**

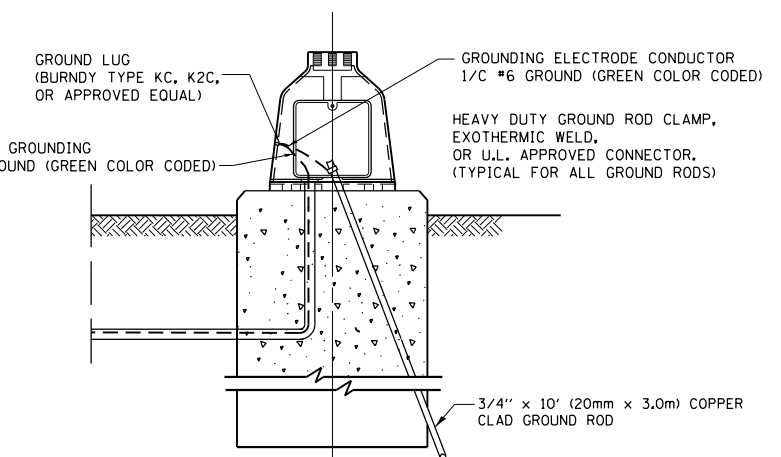
- ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED.
- GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES 6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES 13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES. 5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.



**SERVICE INSTALLATION GROUND MOUNT  
(NOT TO SCALE)**

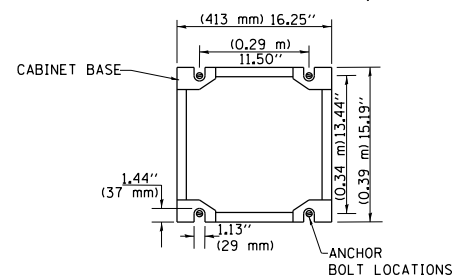


**EXISTING HANDHOLE COVER & FRAME – GROUNDING DETAIL  
(NOT TO SCALE)**



**MAST ARM POLE / POST-GROUNDING DETAIL  
(NOT TO SCALE)**

**CABINET – BASE BOLT PATTERN  
(NOT TO SCALE)**



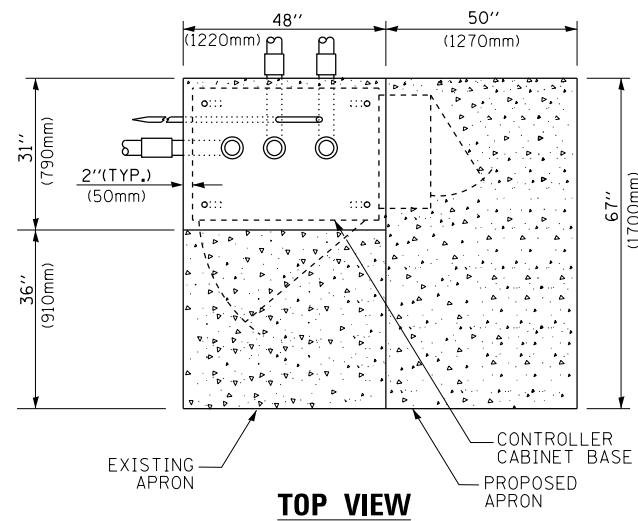
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

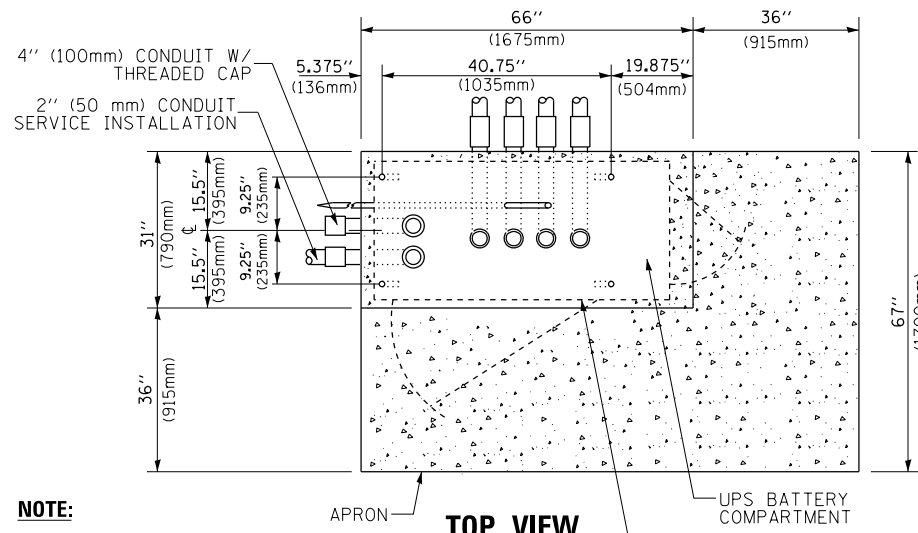
**DISTRICT ONE  
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

SCALE: NONE SHEET 4 OF 7 SHEETS STA. TO STA.

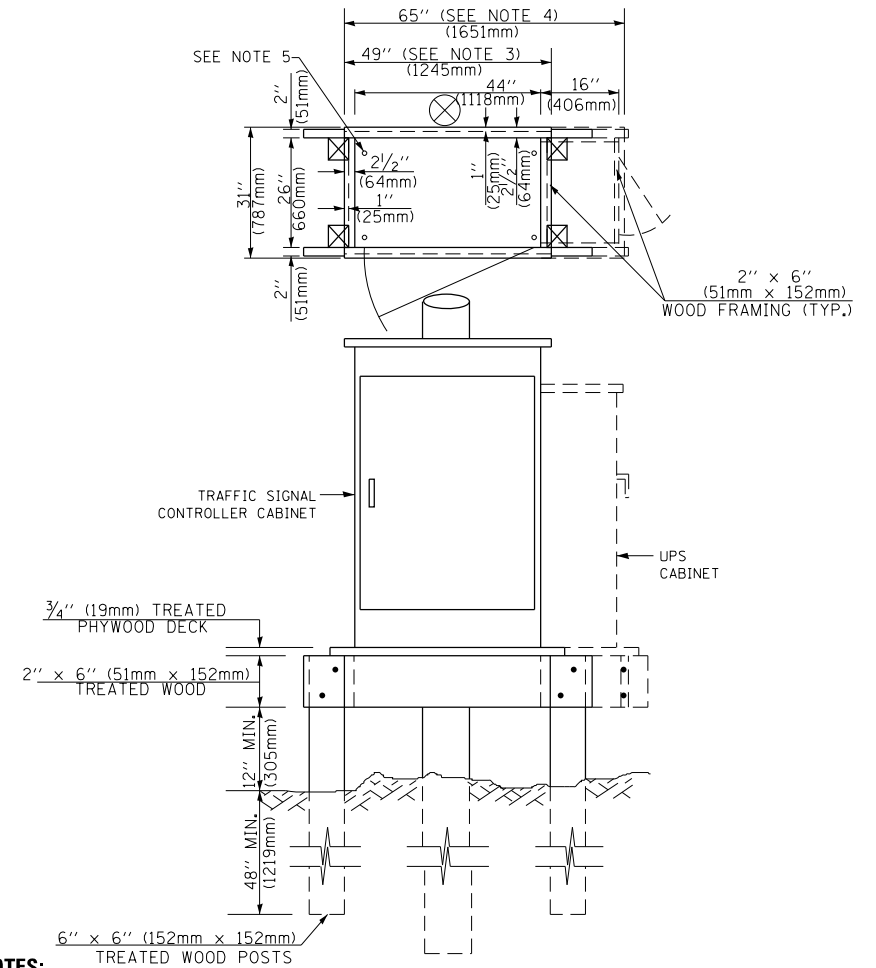
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	87-Y-N	COOK	102	69
TS-05		CONTRACT NO. 60J39		
ILLINOIS FED. AID PROJECT				



**TOP VIEW**



**TOP VIEW**



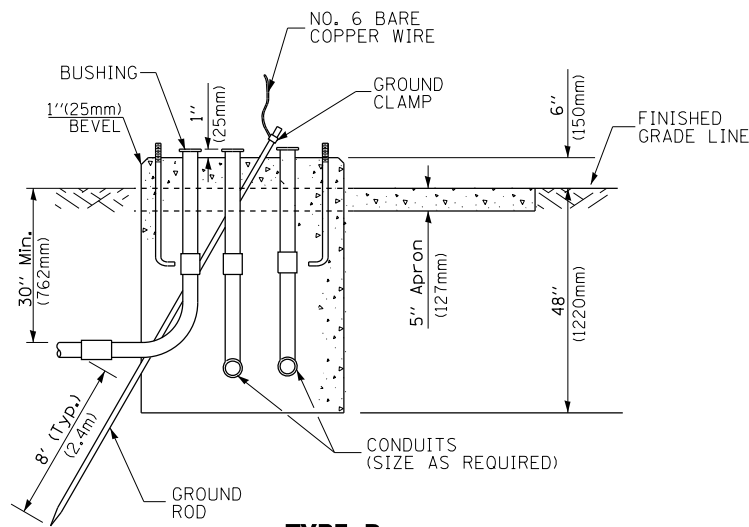
**TEMPORARY SIGNAL CONTROLLER  
WOOD SUPPORT PLATFORM**

**NOTES:**

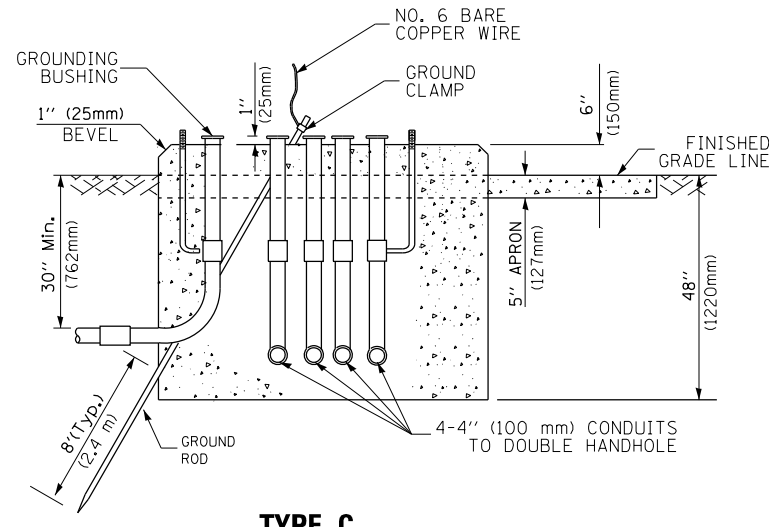
1. BASED ON CONTROLLER CABINET TYPE IV WITH BASE DIMENSIONS OF 26" x 44" (660mm x 1118mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
2. BASED ON UNINTERRUPTIBLE POWER SUPPLY CABINET WITH BASE DIMENSIONS OF 16" x 25" (406mm x 635mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
3. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV.
4. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV AND UNINTERRUPTIBLE POWER SUPPLY CABINET.
5. DRILLED HOLES THROUGH THE PLATFORM BASE TO MATCH THE CONTROLLER CABINET BOLT TEMPLATE. FASTEN THE CONTROLLER CABINET TO THE PLATFORM WITH CARRIAGE BOLTS, WASHERS AND NUTS.
6. FASTEN ALL SUPPORT WOOD FRAMING TO THE WOOD POSTS WITH 2 LAG SCREWS FOR EACH CONNECTION.

**NOTE:**

TOP OF FOUNDATION SHALL BE HIGHER THAN TOP OF DOUBLE HANDHOLE



**TYPE D  
FOR GROUND MOUNTED  
CONTROLLER CABINET  
AND UPS BATTERY CABINET**



**TYPE C  
FOR GROUND MOUNTED  
SUPER P (TYPE IV) AND SUPER R (TYPE V)  
CONTROLLER CABINETS**

CABLE SLACK LENGTH	FEET	METER
HANDHOLE	6.5	2.0
DOUBLE HANDHOLE	13.0	4.0
SIGNAL POST	2.0	0.6
MAST ARM	2.0	0.6
CONTROLLER CABINET	1.5	0.5
FIBER OPTIC AT CABINET	13.0	4.0
ELECTRIC SERVICE AT (CABINET OR SERVICE LOCATION)	1.5	0.5
GROUND CABLE (SIGNAL POST, MAST ARM, CABINET)	1.5	0.5
GROUND CABLE (BETWEEN FRAME AND COVER)	5.0	1.6

**CABLE SLACK**

VERTICAL CABLE LENGTH	FEET	METER
MAST ARM POLE ( MAST ARM MOUNTED SIGNAL HEAD) (L = MAST ARM LENGTH - DISTANCE TO SIGNAL HEAD FROM END OF ARM)	20.0+L	6.0+L
BRACKET MOUNTED (MAST ARM POLE OR SIGNAL POLE)	13.0	4.0
PEDESTRIAN PUSH BUTTON	6.0	2.0
SERVICE INSTALLATION POLE MOUNT TO SERVICE DROP	13.5	4.1
SERVICE INSTALLATION POLE MOUNT TO GROUND	13.5	4.1
SERVICE INSTALLATION GROUND MOUNT	6.0	2.0
FOUNDATION (SIGNAL POST, MAST ARM POLE, CONTROLLER CABINET, SERVICE-GROUND MOUNT)	3.0	1.0

**VERTICAL CABLE LENGTH**

FOUNDATION	DEPTH
TYPE A - Signal Post	4'-0" (1.2m)
TYPE C - CONTROLLER W/ UPS	4'-0" (1.2m)
TYPE D - CONTROLLER	4'-0" (1.2m)
SERVICE INSTALLATION, GROUND MOUNT, TYPE A - SQUARE	4'-0" (1.2m)

**DEPTH OF FOUNDATION**

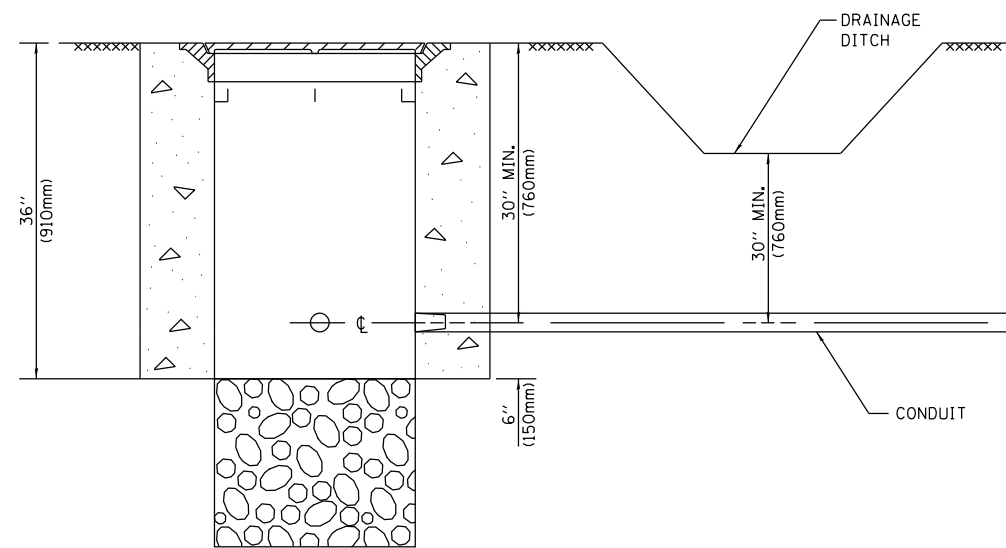
MAST ARM LENGTH	① Foundation Depth	Foundation Diameter	Spiral Diameter	Quantity of Rebars	Size of Rebars
Less than 30' (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 30' (9.1 m) and less than 40' (12.2 m)	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	11'-0" (3.4 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 55' (16.8 m) and less than 65' (19.8 m)	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 65' (19.8 m) and up to 75' (22.9 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
Greater than or equal to 75' (22.9 m) and up to 85' (25.9 m)	25'-0" (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)

**NOTES:**

1. These foundation depths are for sites which have cohesive soils (clayey silt, sandy clay, etc.) along the length of the shaft, with an average unconfined compressive strength (qu) > 1.0 tsf (100 kpa). This strength shall be verified by boring data prior to construction or with testing by the Engineer during foundation drilling. The Bureau of Bridges & Structures should be contacted for a revised design if other conditions are encountered.
2. Combination mast arm assemblies under 55 feet (16.8 m) shall use 36" (900 mm) diameter foundations.
3. Combination mast arm assemblies under 56 feet (16.8 m) through 75 feet (22.9 m) shall use 42" (1060 mm) diameter foundations.
4. For mast arm assemblies with dual arms refer to state standard 878001..

**DEPTH OF MAST ARM FOUNDATIONS, TYPE E**

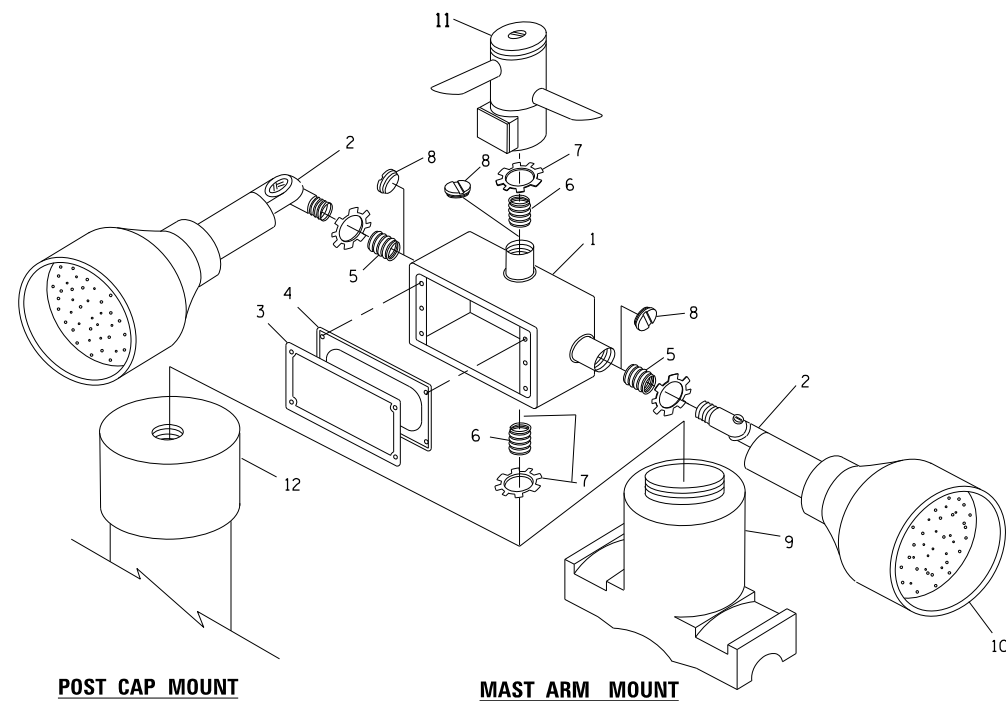




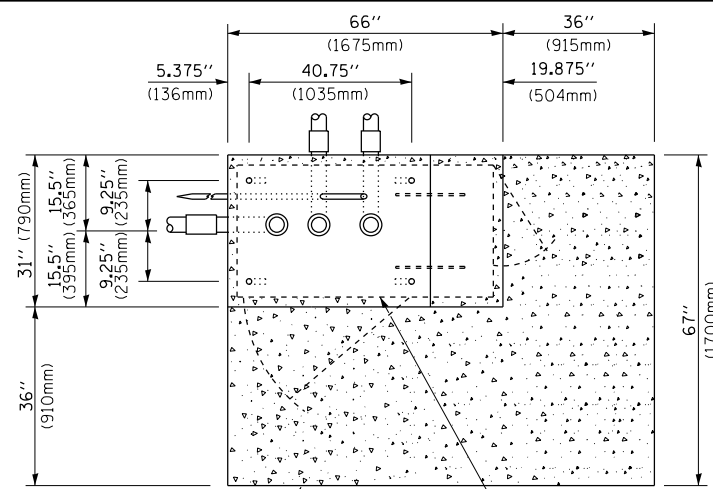
**NOTES:**

1. CONDUIT DEPTH SHALL BE A MINIMUM OF 30" (760mm) BELOW THE BOTTOM OF THE DRAINAGE DITCH OR ANY SLOPING GROUND
2. THE MINIMUM CONDUIT DEPTH APPLIES TO ALL CONDUIT PLACED UNDER ROADWAY PAVEMENT, MULTI-USE PATHS, SIDEWALKS AND SOIL SURFACES.
3. THE MINIMUM CONDUIT DEPTH APPLIES TO ALL HANDHOLES, HEAVY DUTY HANDHOLES AND DOUBLE HANDHOLES.

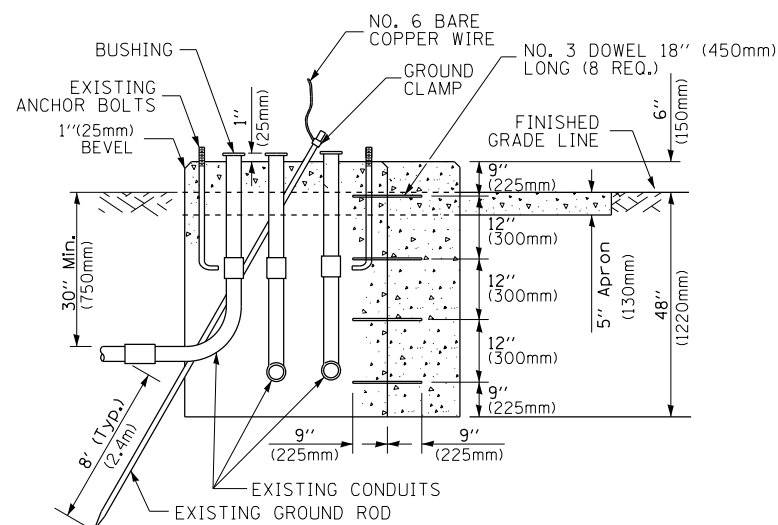
**HANDHOLE WITH MINIMUM CONDUIT DEPTH**  
(NOT TO SCALE)



**EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL**



**TOP VIEW**  
(NOT TO SCALE)

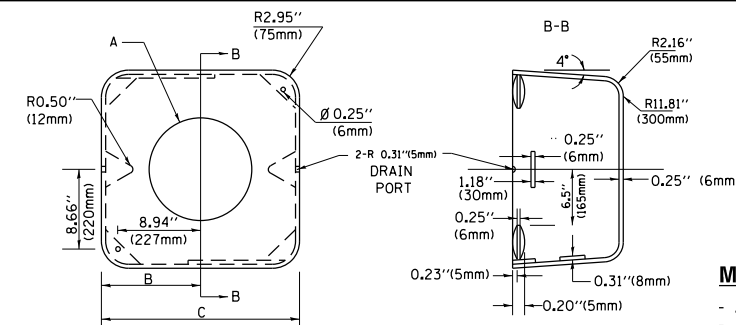


**MODIFY EXISTING TYPE "D" FOUNDATION TO TYPE "C" FOUNDATION**  
(NOT TO SCALE)

ITEM NO.	IDENTIFICATION
1	OUTLET BOX- GALV. 21 CU.IN. (0.000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	3/4" (19 mm) CLOSE NIPPLE
7	3/4" (19 mm) LOCKNUT
8	3/4" (19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	6 WATT PAR 38 LED FLOOD LAMP
11	DETECTOR UNIT
12	POST CAP [18 FT. (5.4 m) POST MIN.]

**NOTES:**

1. ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
2. ITEM #1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT  
ITEM #2- MULBERRY CON-O-SHADE LAMP SHIELD OR EQUIVALENT  
ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
3. WHEN POST MOUNTING IS SPECIFIED, ITEM #9 SHALL NOT BE REQUIRED. THE DETECTION UNIT SHALL BE MOUNTED DIRECTLY ON TOP OF THE CAP BY DRILLING AND TAPPING A 3/4" (19 mm) HOLE WITH PIPE THREADS. THE POST CAP SHALL EITHER BE SCREWED TO THE TOP OF THE POST OR A MINIMUM OF 3 TIGHTENING SCREWS SHALL BE REQUIRED ON EACH CAP.



**MATERIAL:**  
- ASTM A36 STEEL  
- ASTM A-123 HOT DIPPED GALVANIZED

A	B	C	HEIGHT	WEIGHT
VARIABLES	9.5" (241mm)	19" (483mm)	7" (178mm) - 12" (300mm)	53 lbs (24kg)
VARIABLES	10.75" (273mm)	21.5" (546mm)	7" (178mm) - 12" (300mm)	68 lbs (31 kg)
VARIABLES	13.0" (330mm)	26" (660mm)	7" (178mm) - 12" (300mm)	81 lbs (37 kg)
VARIABLES	18.5" (470mm)	37" (940mm)	7" (178mm) - 12" (300mm)	126 lbs (57 kg)

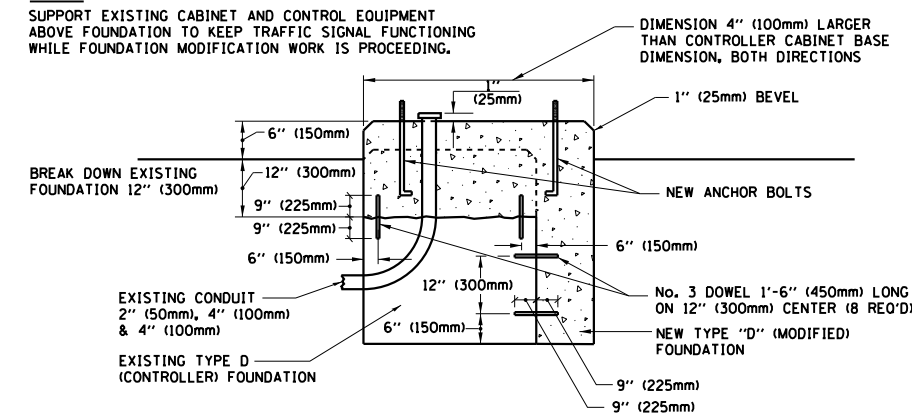
**SHROUD**

**NOTES:**

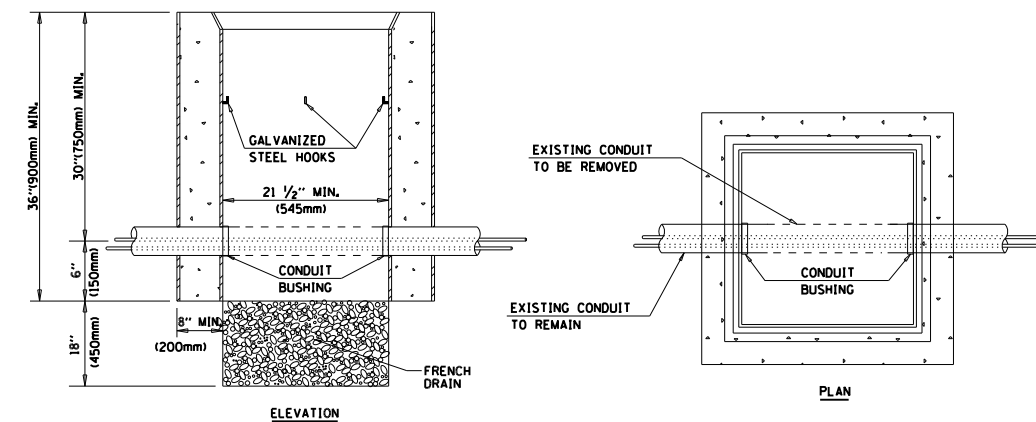
1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
2. THE SUPPLIER SHALL VERIFY THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.

**NOTE:**

SUPPORT EXISTING CABINET AND CONTROL EQUIPMENT ABOVE FOUNDATION TO KEEP TRAFFIC SIGNAL FUNCTIONING WHILE FOUNDATION MODIFICATION WORK IS PROCEEDING.



**MODIFY EXISTING TYPE "D" FOUNDATION**



**NOTES:**

1. HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
2. REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCLUDED WITH THE COST OF THE HANDHOLE.

**HANDHOLE TO INTERCEPT EXISTING CONDUIT**

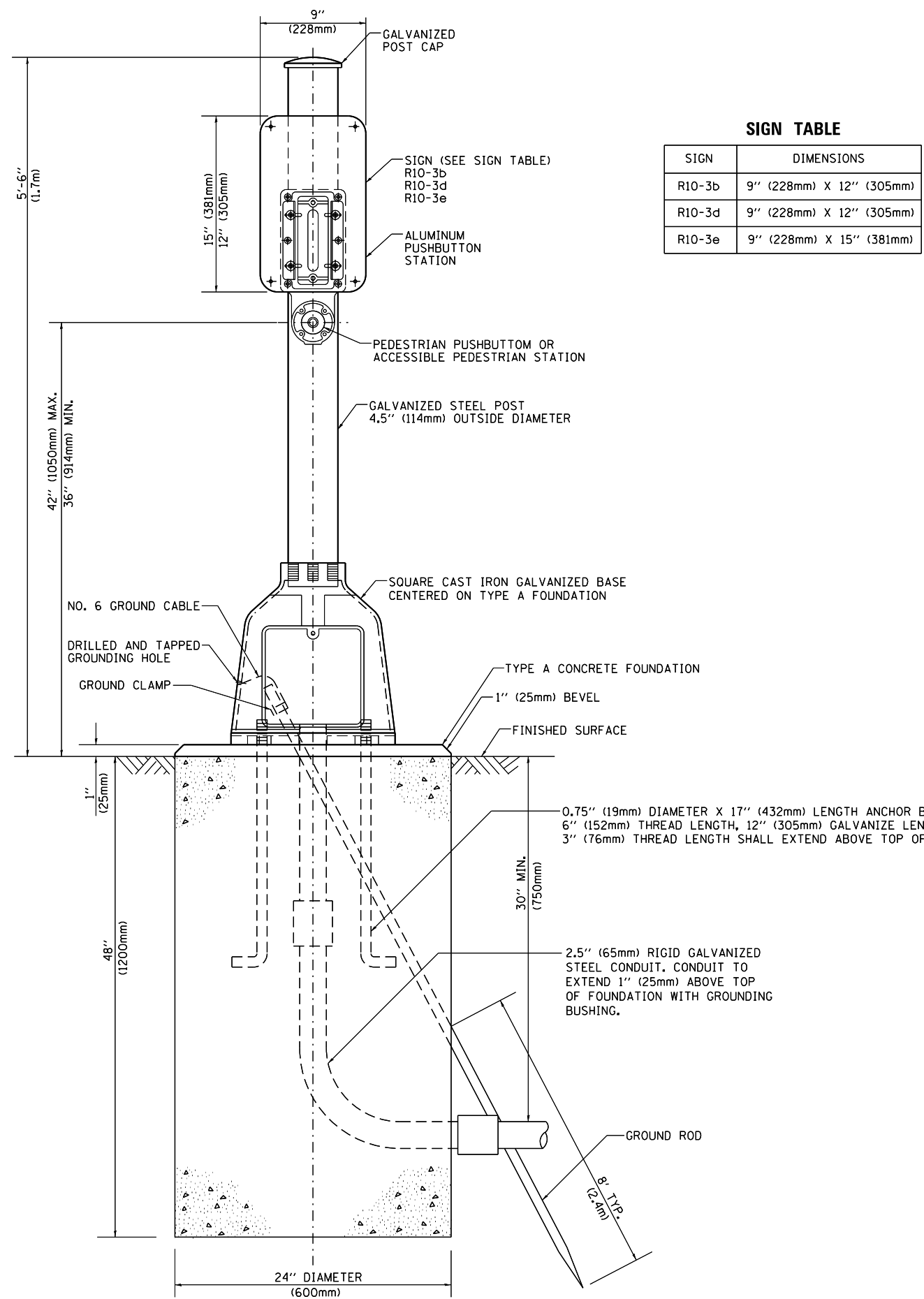
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Default	PLOT DATE = 11/3/2016	DATE -	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE**  
**STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

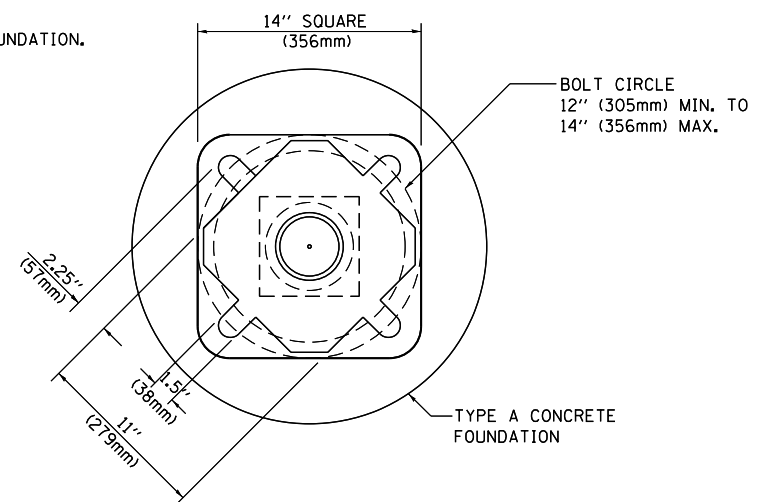
SCALE: NONE SHEET 6 OF 7 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	87-Y-N	COOK	102	71
<b>TS-05</b>		<b>CONTRACT NO. 60J39</b>		
ILLINOIS FED. AID PROJECT				



**SIGN TABLE**

SIGN	DIMENSIONS
R10-3b	9" (228mm) X 12" (305mm)
R10-3d	9" (228mm) X 12" (305mm)
R10-3e	9" (228mm) X 15" (381mm)



**BOLT PATTERN**  
**PEDESTRIAN PUSH BUTTON POST, TYPE A**

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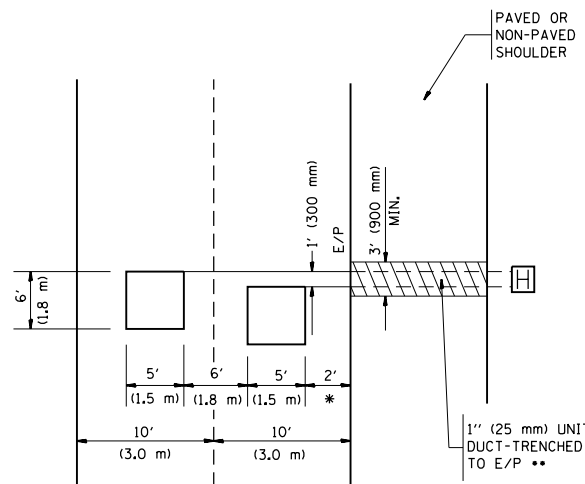
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE  
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**  
SCALE: NONE SHEET 7 OF 7 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	87-Y-N	COOK	102	72
<b>TS-05</b>			<b>CONTRACT NO. 60J39</b>	
ILLINOIS FED. AID PROJECT				

LOOPS NEXT TO SHOULDERS

PROVIDE A PAVEMENT REPLACEMENT NOTE WHICH SHOULD EQUAL 3' (900 mm) X WIDTH OF PAVED SHOULDER.



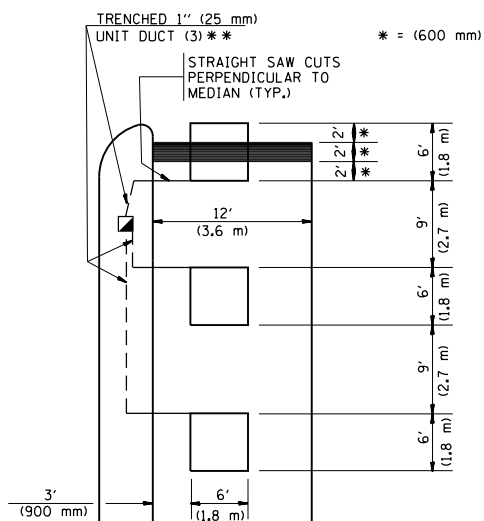
\* = (600 mm)

\*\* UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

LEFT TURN LANES WITH MEDIANS  
VOLUME DENSITY ("FAR OUT" DETECTION)  
ON SAME APPROACH

(PROTECTED / PERMITTED LEFT TURN PHASING)

HANDHOLE LOCATION MAY VARY DEPENDING ON GEOMETRICS AND DESIGN OF TRAFFIC SIGNALS. HEAVY-DUTY HANDHOLES TO BE USED WHEN THE MEDIAN IS MOUNTABLE. REFER TO STANDARD 814001 TO ENSURE THAT HANDHOLE FITS IN MEDIAN.

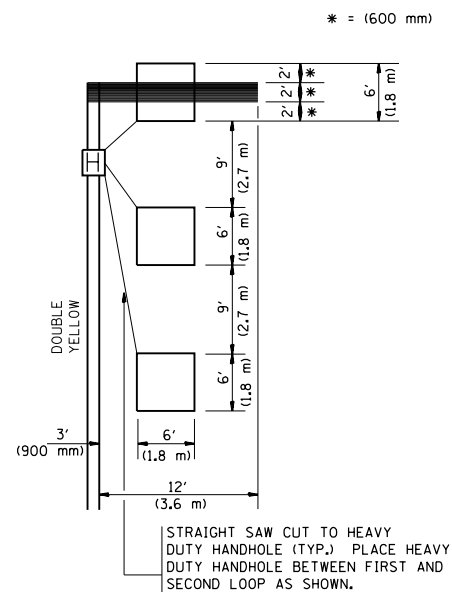


\*\* UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

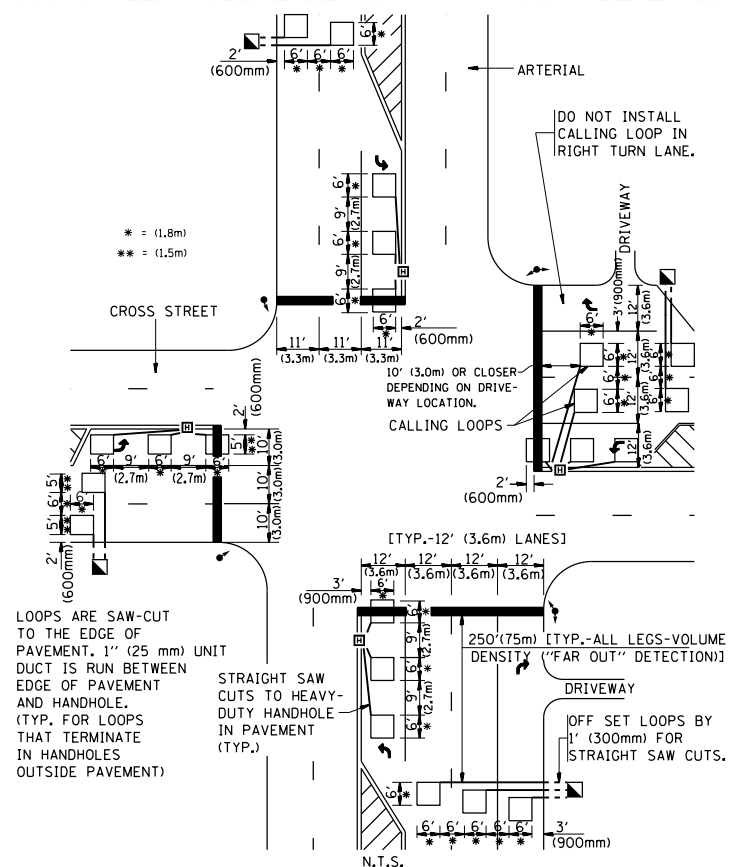
LEFT TURN LANES WITHOUT MEDIANS  
VOLUME DENSITY ("FAR OUT" DETECTION)  
ON SAME APPROACH

(PROTECTED / PERMITTED LEFT TURN PHASING)



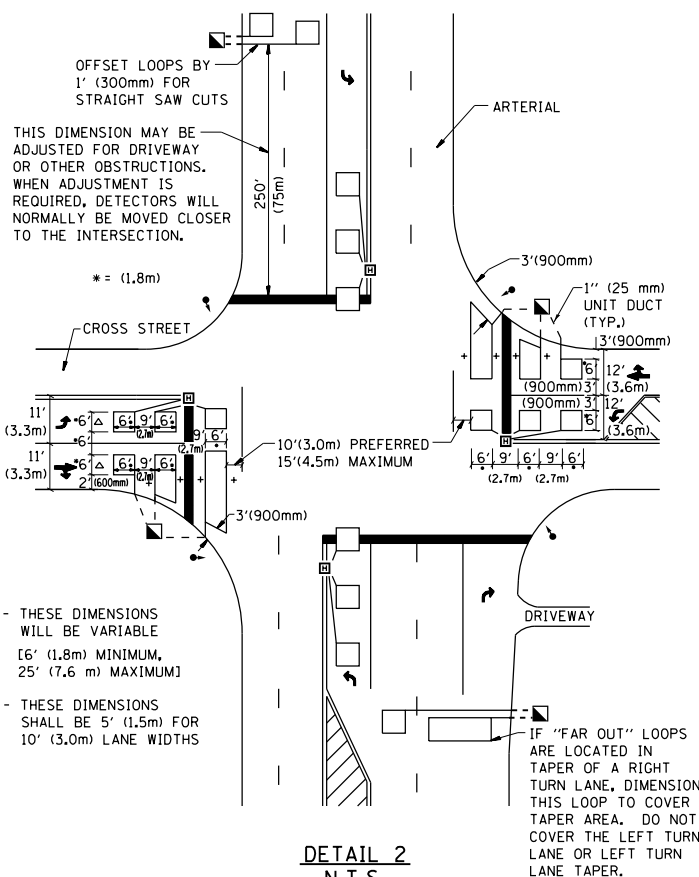
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

ARTERIAL-VOLUME DENSITY ("FAR OUT" DETECTION)  
CROSS STREET-VOLUME DENSITY ("FAR OUT" DETECTION)



DETAIL 1  
N.T.S.

ARTERIAL-VOLUME DENSITY ("FAR OUT" DETECTION)  
CROSS STREET-NON VOLUME DENSITY ("UPTIGHT" PRESENCE DETECTION)



DETAIL 2  
N.T.S.

NOTES:

VEHICLES LOOP DETECTORS

- \* ALL LEAD IN CABLE SHALL BE TWO CONDUCTOR NO. 14 TWISTED, SHIELDED.
- \* EACH DETECTOR LOOP SHALL HAVE ITS OWN SAW CUT FROM THE LOOP TO THE EDGE OF PAVEMENT OR TO A HANDHOLE IN THE PAVEMENT.
- \* EACH DETECTOR LOOP SHALL HAVE ITS OWN ONE INCH (25 mm) UNIT DUCT BETWEEN THE EDGE OF PAVEMENT AND THE FIRST HANDHOLE OR JUNCTION BOX. EACH UNIT DUCT RUN SHALL BE SHOWN ON THE PLANS BY THE DESIGNER, BUT SHALL NOT BE PAID FOR SEPARATELY. THIS ITEM IS INCIDENTAL TO THE PAY ITEM FOR DETECTOR LOOPS.
- \* ONE DIMENSION OF ALL DETECTOR LOOPS SHALL BE SIX FEET (1.8 m)
- \* EACH LANE OF NON-LOCKING, PRESENCE DETECTION AND EACH LANE OF A DOUBLE LEFT TURN LANE REQUIRES A SEPARATE INDUCTIVE LOOP DETECTOR AND LEAD IN CABLE.
- \* WHEN NON-LOCKING, PRESENCE DETECTION IS USED, MORE THAN ONE LOOP PER LANE IS REQUIRED BEHIND THE STOP BAR (i.e. 1-1/2, 1-3/4, 2).
- \* WHEN SYSTEM LOOPS ARE REQUIRED ON AN APPROACH OF AN INTERSECTION, THE LOOPS USED FOR VOLUME DENSITY AND INTERSECTION TIMING SHALL ALSO BE USED AS SYSTEM DETECTORS. EACH ONE OF THESE TYPE OF LOOPS REQUIRES A SEPARATE TWO CONDUCTOR NO. 14 TWISTED SHIELDED CABLE AND A SEPARATE INDUCTIVE LOOP DETECTOR WHEN NEW CONTROLLERS ARE UTILIZED. THE DESIGNER SHALL LABEL THESE TYPES OF LOOPS AS "INTERSECTION AND SAMPLING (SYSTEM) DETECTORS" ON THE SIGNAL LAYOUT, THE INTERCONNECT PLAN AND THE SYSTEM CABLE PLAN. WHEN AN EXISTING CONTROLLER IS UTILIZED FOR THIS TYPE OF DETECTION, THE PAY ITEM "INDUCTIVE LOOP DETECTOR WITH SYSTEM OUTPUT" SHOULD BE USED.

PLACEMENT OF DETECTORS

THE FOLLOWING FIGURES REPRESENT THE MOST COMMON DETECTOR LOOP LOCATIONS AND SIZES. ADJUSTMENTS WILL BE NECESSARY FOR SPECIFIC GEOMETRIC CONSIDERATIONS.

LOCATIONS AND DEMENSIONS OF DETECTOR LOOPS ARE REQUIRED ON ALL SIGNAL LAYOUT PLAN SHEETS.

"FAR OUT" DETECTION REFERS TO LOCKING, PRESENCE TYPE DETECTION LOCATED IN THRU LANES, RIGHT TURN LANES, AND RIGHT TURN LANE TAPER AREAS (IF APPLICABLE), USUALLY 250' (75 m) IN ADVANCE OF STOP BARS. "UPTIGHT" DETECTION REFERS TO NON-LOCKING PRESENCE TYPE DETECTION LOCATED IN ALL LANES AND 10'-15' (3.0 m-4.5 m) BEHIND THE CROSSING STREET'S EDGE OF PAVEMENT EXTENDED.

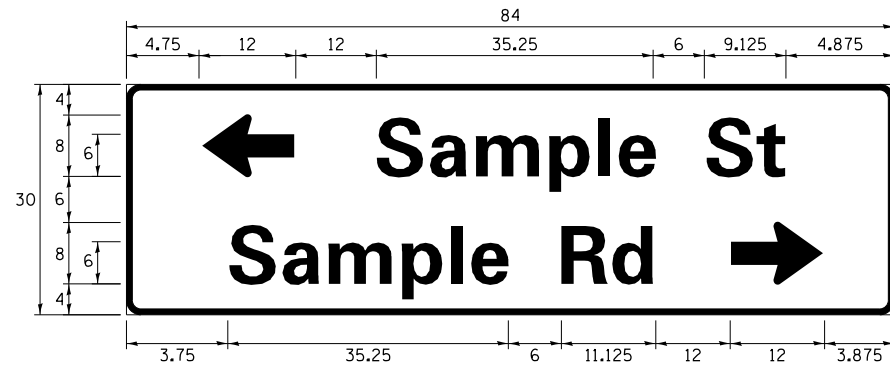
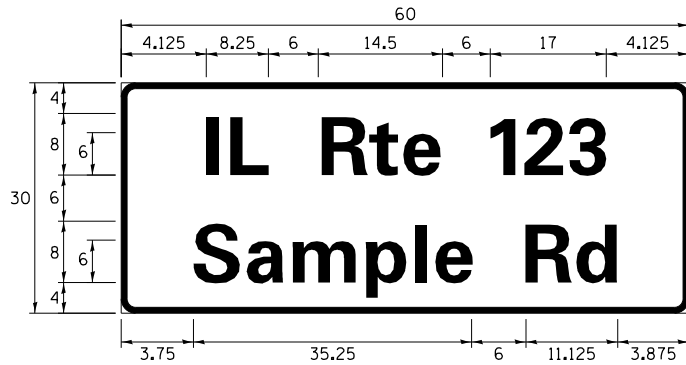
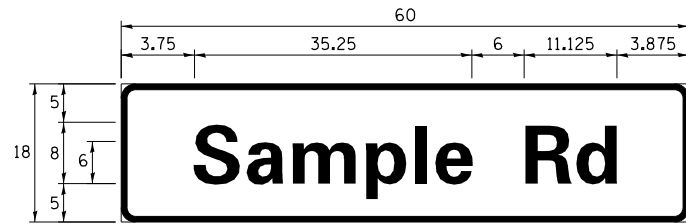
NOTE:

ALL DETAILS AND NOTES SHOWN ARE FROM THE I.D.O.T. DISTRICT 1 TRAFFIC SIGNAL DESIGN GUIDELINES DATED JANUARY 1995

THIS DRAWING HAS BEEN PREPARED TO ASSIST THE RESIDENT ENGINEER FOR ALL ROADWAY RESURFACING OR S.M.A.R.T. PROJECTS WHERE THE DIMENSIONS ARE NOT SHOWN ON THE PLANS AND THE FINAL LOCATIONS FOR CROSSWALKS OR STOP BARS ARE NOT DETERMINED.

FILE NAME =	USER NAME = bartonr	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DISTRICT 1 - DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING</b>			F.A.U. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
p:\11\084EBID\INTEG\11inois.gov\PI\DOT\Documents\DOT Offices\District 1\Projects\PI4330\Drawings\Design\DistStd.dgn		CHECKED - R.K.F.	REVISED -		3512	87-Y-N	COOK	102	73			
PLOT SCALE = 100.0000' / 1"		DATE -	REVISED -		<b>TS-07</b>			<b>CONTRACT NO. 60J39</b>				
PLOT DATE = 11/3/2016			REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

**SIGN PANEL – TYPE 1 OR TYPE 2**



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D OR C	-	1 OR 2	ZZ	-

ALL DIMENSIONS ARE IN INCHES EXCEPT NOTED OTHERWISE

**COMMON STREET NAME ABBREVIATIONS AND WIDTHS**

NAME	ABBREVIATION	WIDTH (INCH)	
		SERIES "C"	SERIES "D"
AVENUE	Ave	15.000	18.250
BOULEVARD	Blvd	17.125	20.000
CIRCLE	Cir	11.125	13.000
COURT	Ct	8.250	9.625
DRIVE	Dr	8.625	10.125
HIGHWAY	Hwy	18.375	22.000
ILLINOIS	IL	7.000	8.250
LANE	Ln	9.125	10.750
PARKWAY	Pkwy	23.375	27.375
PLACE	Pl	7.125	7.750
ROAD	Rd	9.625	11.125
ROUTE	Rte	12.625	14.500
STREET	St	8.000	9.125
TERRACE	Ter	12.625	14.625
TRAIL	Tr	7.750	9.125
UNITED STATES	US	10.375	12.250

**GENERAL NOTES**

- WHERE MAST ARM MOUNTED STREET NAME SIGNS ARE SPECIFIED, THE MAST ARM ASSEMBLY AND POLES SHALL BE DESIGNED TO SUPPORT THE LOADINGS CALLED FOR ON STANDARDS 877001, 877002, 877006, 877011 AND 877012, AS APPLICABLE, PLUS TWO (2) SIGN PANELS 2'-6" x 8'-0" MOUNTED AS SHOWN. THE DESIGN SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS" AS PUBLISHED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS FOR 80 M.P.H. WIND VELOCITY.
- ALL SIGNS SHALL CONSIST OF A WHITE LEGEND AND BORDER (TYPE ZZ SHEETING) ON A GREEN BACKGROUND (TYPE ZZ SHEETING)
- THE SIGN LENGTH SHALL BE IN 6-INCH INCREMENTS, BUT THE OVERALL LENGTH SHALL NOT EXCEED 8'-0". ALL BORDERS SHALL BE 3/4" WIDE. CORNER RADIUS SHALL BE 1-7/8". THE SPACING BETWEEN THE WORDS SHOULD BE 6", IF POSSIBLE, BUT MAY BE REDUCED TO 5" WHEN SPACING IS CRITICAL. A MINIMUM OF 2-1/2" SHALL BE INCLUDED BETWEEN THE WORD AND THE RIGHT AND LEFT EDGES OF THE SIGN.
- A PREFERRED METHOD FOR THE SIGN DESIGN IS TO USE SERIES "D" LETTER ON A ONE-LINE SIGN 18" IN HEIGHT AND A MAXIMUM OF 8'-0" IN WIDTH. IF SERIES "D" DOES NOT FIT ON A 8'-0" SIGN, THEN SERIES "C" SHOULD BE TRIED. IF SERIES "C" DOES NOT FIT ON A 8'-0" SIGN, A 30" HIGH TWO-LINE SIGN CAN BE USED. THE CROSSROAD DESIGNATION AS TO STREET, AVENUE, ETC. SHOULD BE SPELLED OUT ON THE SECOND LINE, IF THE ABBREVIATION CANNOT FIT ON THE FIRST LINE.
- LED ILLUMINATED STREET NAME SIGNS CAN BE USED IN PLACE OF REGULAR SIGN PANELS BUT ANY SPECIAL WORDING AND SYMBOLGY MUST BE APPROVED BY THE DEPARTMENT. GENERAL DESIGN REQUIREMENT AS LISTED ABOVE (COLOR, FONT, SIZE, ETC.) MUST BE FOLLOWED.
- SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM SHALL BE USED FOR ALL SIGNS ATTACHED TO SIGNAL POLES AND POSTS.

**LOCAL SUPPLIERS:**

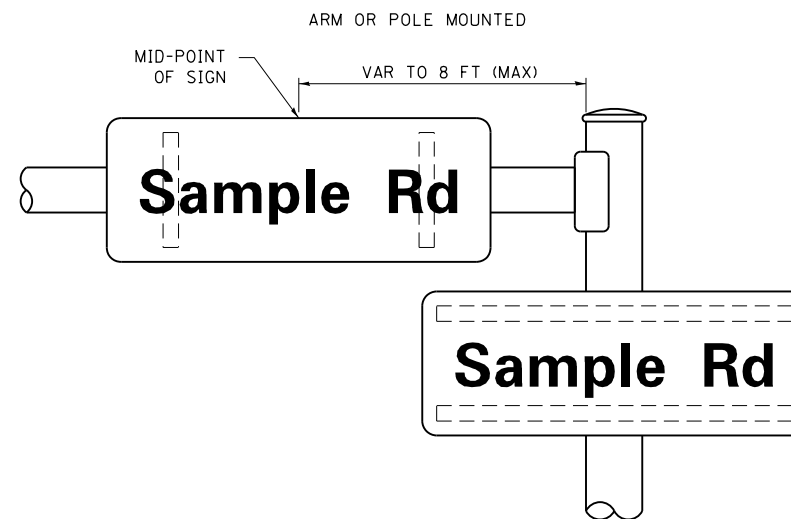
- J.O. HERBERT COMPANY, INC  
MIDLOTHIAN, VA
- WESTERN REMAC, INC.  
WOODRIDGE, IL

**PARTS LISTING:**

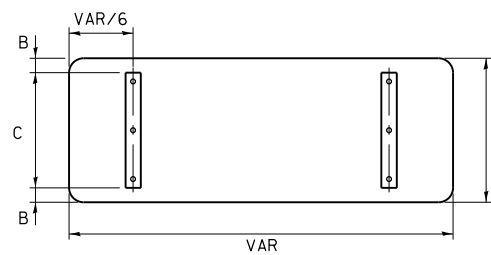
- SIGN CHANNEL PART \*HPN053 (MED. CHANNEL)  
SIGN SCREWS 1/4" x 14 x 1" H.W.H. #3  
SELF TAPPING WITH NEOPRENE WASHER  
PART \*HPN034 (UNIVERSAL)  
BRACKETS CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING

OTHER BRANDS OF MOUNTING HARDWARE ARE ACCEPTABLE, BASED UPON THE DEPARTMENT'S APPROVAL AND COMPATIBILITY WITH THE CHANNEL/BACKET OF THE ABOVE PRODUCT.

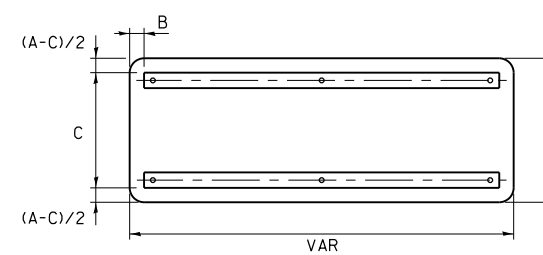
**MOUNTING LOCATION**



**SUPPORTING CHANNELS**



A	B	C
18"	2"	14"
30"	2"	24"

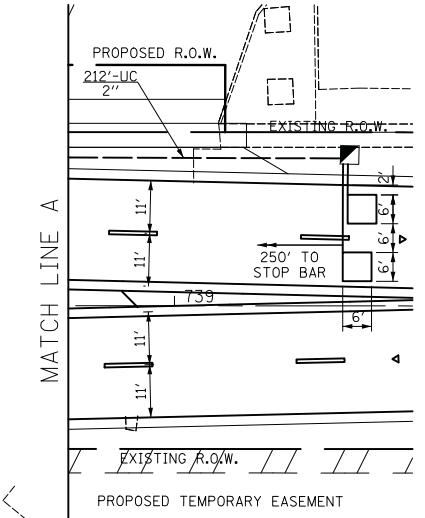
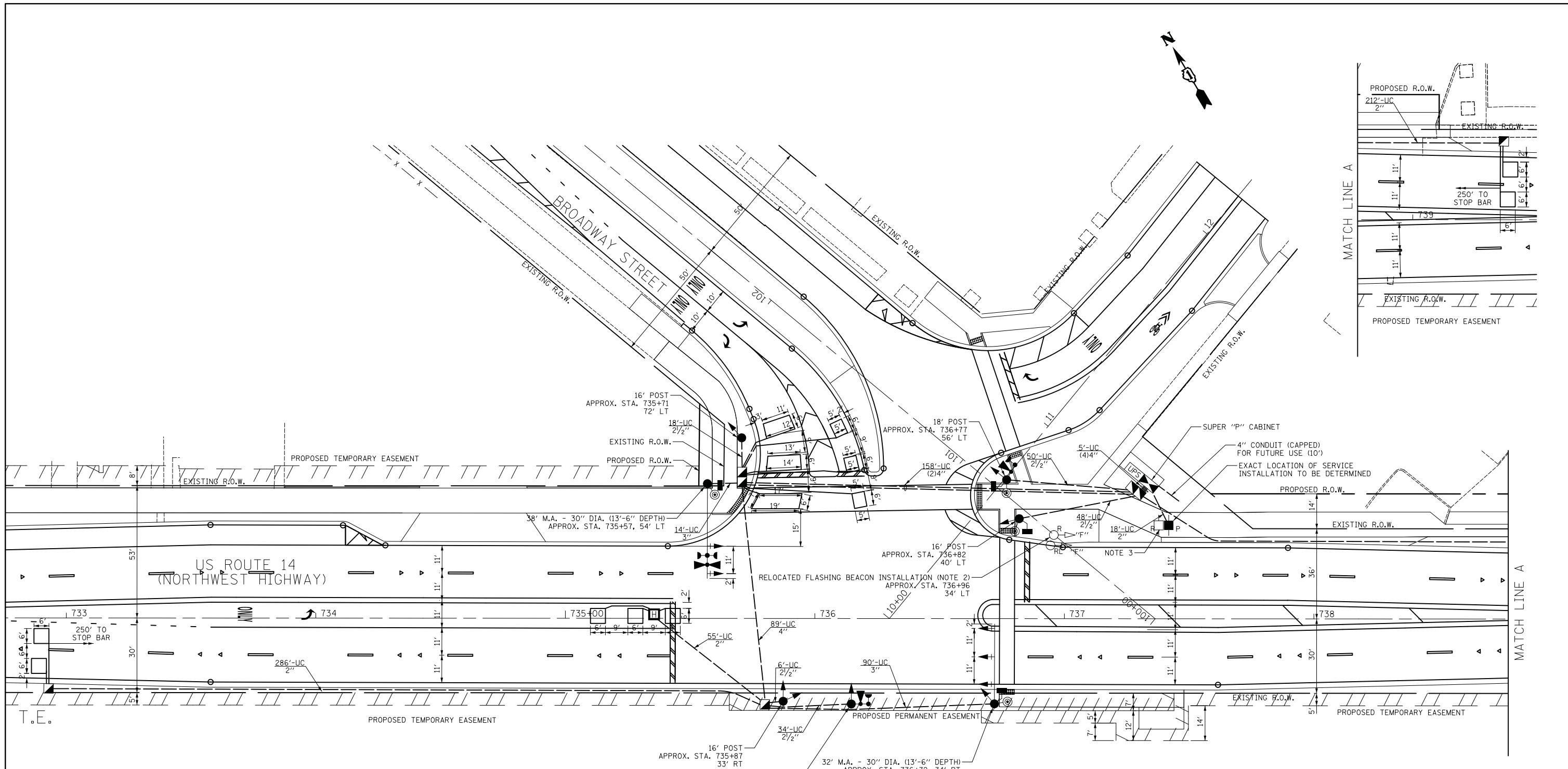


A	B	C
18"	2"	12"
30"	2"	22"

**STANDARD ALPHABETS SPACING CHART**

(8") UPPER CASE AND (6") LOWER CASE

FHWA SERIES "C"				FHWA SERIES "D"			
CHARACTER	LEFT SPACING (INCH)	WIDTH (INCH)	RIGHT SPACING (INCH)	CHARACTER	LEFT SPACING (INCH)	WIDTH (INCH)	RIGHT SPACING (INCH)
A	0.240	5.122	0.240	A	0.240	6.804	0.240
B	0.880	4.482	0.480	B	0.960	5.446	0.400
C	0.720	4.482	0.720	C	0.800	5.446	0.800
D	0.880	4.482	0.720	D	0.960	5.446	0.800
E	0.880	4.082	0.480	E	0.960	4.962	0.400
F	0.880	4.082	0.240	F	0.960	4.962	0.240
G	0.720	4.482	0.720	G	0.800	5.446	0.800
H	0.880	4.482	0.880	H	0.960	5.446	0.960
I	0.880	1.120	0.880	I	0.960	1.280	0.960
J	0.240	4.082	0.880	J	0.240	5.122	0.960
K	0.880	4.482	0.480	K	0.960	5.604	0.400
L	0.880	4.082	0.240	L	0.960	4.962	0.240
M	0.880	5.284	0.880	M	0.960	6.244	0.960
N	0.880	4.482	0.880	N	0.960	5.446	0.960
O	0.720	4.722	0.720	O	0.800	5.684	0.800
P	0.880	4.482	0.720	P	0.960	5.446	0.240
Q	0.720	4.722	0.720	Q	0.800	5.684	0.800
R	0.880	4.482	0.480	R	0.960	5.446	0.400
S	0.480	4.482	0.480	S	0.400	5.446	0.400
T	0.240	4.082	0.240	T	0.240	4.962	0.240
U	0.880	4.482	0.880	U	0.960	5.446	0.960
V	0.240	4.962	0.240	V	0.240	6.084	0.240
W	0.240	6.084	0.240	W	0.240	7.124	0.240
X	0.240	4.722	0.240	X	0.400	5.446	0.400
Y	0.240	5.122	0.240	Y	0.240	6.884	0.240
Z	0.480	4.482	0.480	Z	0.400	5.446	0.400
a	0.320	3.842	0.640	a	0.400	4.562	0.720
b	0.720	4.082	0.480	b	0.800	4.802	0.480
c	0.480	4.002	0.240	c	0.480	4.722	0.240
d	0.480	4.082	0.720	d	0.480	4.802	0.800
e	0.480	4.082	0.320	e	0.480	4.722	0.320
f	0.320	2.480	0.160	f	0.320	2.882	0.160
g	0.480	4.082	0.720	g	0.480	4.802	0.800
h	0.720	4.082	0.640	h	0.800	4.722	0.720
i	0.720	1.120	0.720	i	0.800	1.280	0.800
j	0.000	2.320	0.720	j	0.000	2.642	0.800
k	0.720	4.322	0.160	k	0.800	5.122	0.160
l	0.720	1.120	0.720	l	0.800	1.280	0.800
m	0.720	6.724	0.640	m	0.800	7.926	0.720
n	0.720	4.082	0.640	n	0.800	4.722	0.720
o	0.480	4.082	0.480	o	0.480	4.882	0.480
p	0.720	4.082	0.480	p	0.800	4.802	0.480
q	0.480	4.082	0.720	q	0.480	4.802	0.800
r	0.720	2.642	0.160	r	0.800	3.042	0.160
s	0.320	3.362	0.240	s	0.320	3.762	0.240
t	0.080	2.882	0.080	t	0.080	3.202	0.080
u	0.640	4.082	0.720	u	0.720	4.722	0.800
v	0.160	4.722	0.160	v	0.160	5.684	0.160
w	0.160	7.524	0.160	w	0.160	9.046	0.160
x	0.000	5.202	0.000	x	0.000	6.244	0.000
y	0.160	4.962	0.160	y	0.160	6.004	0.160
z	0.240	3.362	0.240	z	0.240	4.002	0.240
1	0.720	1.680	0.880	1	0.800	2.000	0.960
2	0.480	4.482	0.480	2	0.800	5.446	0.800
3	0.480	4.482	0.480	3	1.440	5.446	0.800
4	0.240	4.962	0.720	4	0.160	6.004	0.960
5	0.480	4.482	0.480	5	0.800	5.446	0.800
6	0.720	4.482	0.720	6	0.800	5.446	0.800
7	0.240	4.482	0.720	7	0.560	5.446	0.560
8	0.480	4.482	0.480	8	0.800	5.446	0.800
9	0.480	4.482	0.480	9	0.800	5.446	0.800
0	0.720	4.722	0.720	0	0.800	5.684	0.800
-	0.240	2.802	0.240	-	0.240	2.802	0.240



**NOTES FOR TRAFFIC SIGNALS**

1. THERE ARE EXISTING FLASHING BEACON INSTALLATIONS ALONG US ROUTE 14 THAT SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION. THE EXISTING FLASHING BEACON INSTALLATION FOR WESTBOUND TRAFFIC IS LOCATED AS SHOWN ON THE PLAN. THE EXISTING FLASHING BEACON INSTALLATION FOR EASTBOUND TRAFFIC IS LOCATED ON THE SOUTH SIDE OF US ROUTE 14, WEST OF THE BRIDGE OVER IL ROUTE 58 (GOLF ROAD), APPROXIMATELY AT STA. 728+50. FOLLOWING CONSTRUCTION THE COMPLETE FLASHING BEACON INSTALLATIONS, INCLUDING W8-5 SIGN, SHALL BE REMOVED.
2. THE WESTBOUND FLASHING BEACON INSTALLATION MAY NEED TO BE RELOCATED DURING CONSTRUCTION TO AVOID CONFLICTS WITH THE PROPOSED IMPROVEMENT. FOLLOWING CONSTRUCTION THE FLASHING BEACON INSTALLATION SHALL BE REMOVED.
3. THE REMOVAL OF THE EXISTING SERVICE INSTALLATIONS FOR THE FLASHING BEACONS SHALL BE INCLUDED IN THE COST OF "REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT".
4. ALL STATIONS AND OFFSETS ARE FROM THE CENTERLINE OF US ROUTE 14 UNLESS OTHERWISE NOTED.
5. EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NON-METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLE AS SHOWN ON THE PLANS AND STATED IN THE TRAFFIC SIGNAL SPECIFICATIONS.

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 2 EACH SERVICE INSTALLATION (FLASHING BEACON)
- 2 EACH FLASHING BEACON INSTALLATION COMPLETE



USER NAME = jje	DESIGNED - MFB	REVISED -
	DRAWN - OJT	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - JJE	REVISED -
PLOT DATE = 10/26/2016	DATE - 10/26/2016	REVISED -

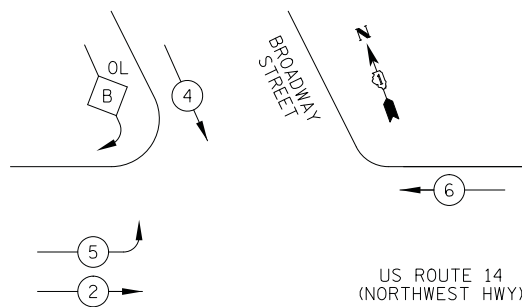
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL MODERNIZATION PLAN  
US ROUTE 14 (NORTHWEST HIGHWAY) AT BROADWAY STREET**

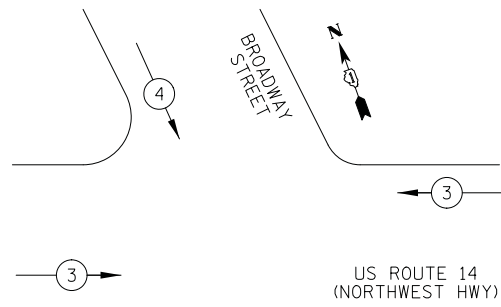
SCALE 1" = 20' SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	87-Y-N	COOK	102	75
CONTRACT NO. 60J39				
ILLINOIS FED. AID PROJECT				

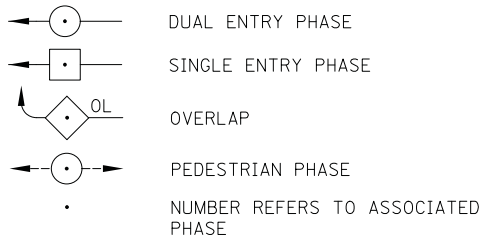
PROPOSED CONTROLLER SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE

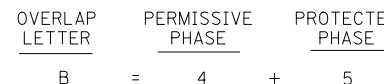


LEGEND



PHASE DESIGNATION DIAGRAM

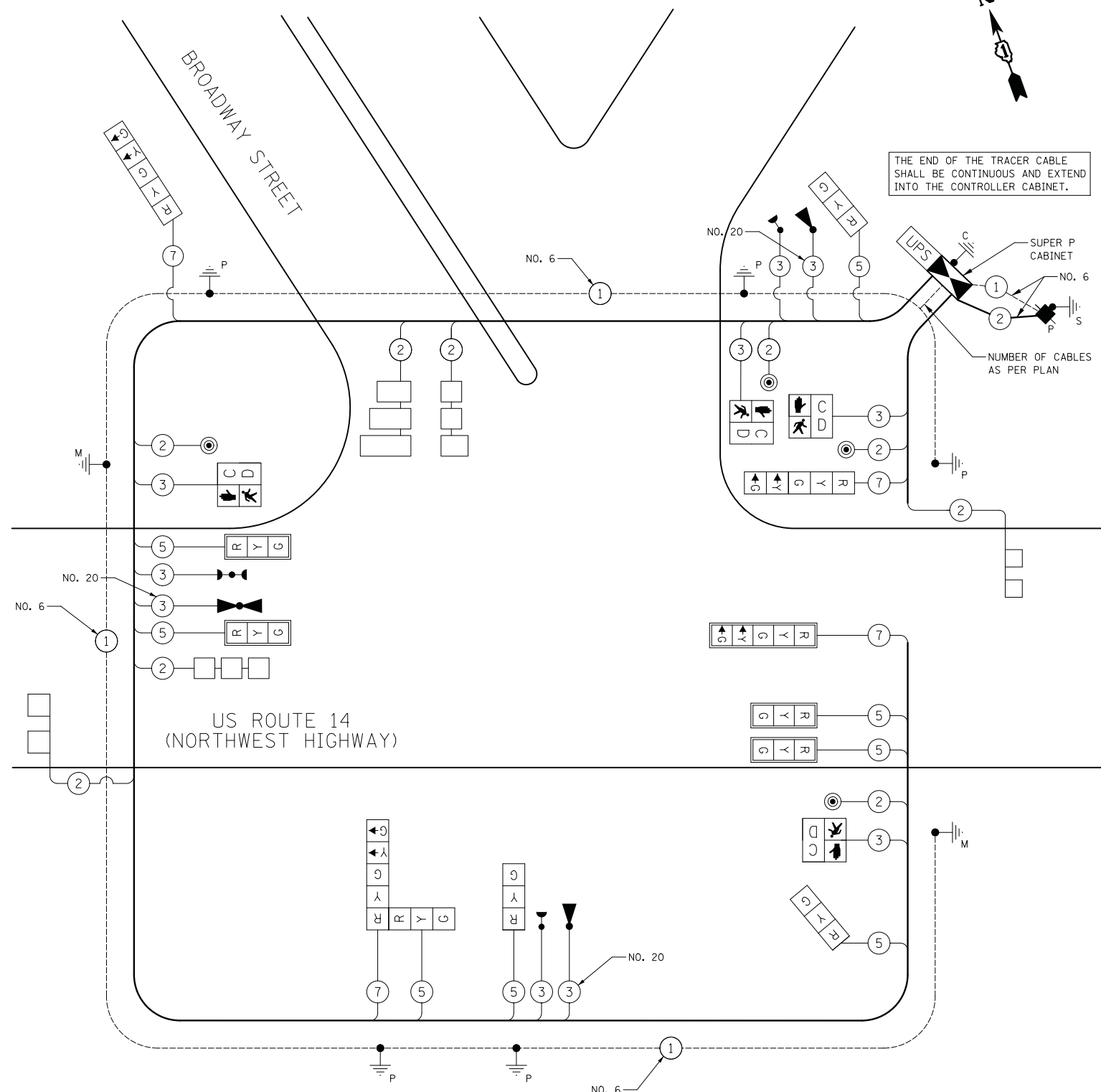
RIGHT TURN OVERLAP PHASE DESIGNATION



DES PLAINES TOWER ACCOUNT NO. 0113100020

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE		% OPERATION	
		INCAND.	LED		
SIGNAL (RED)	12		17	0.50	102
(YELLOW)	12		25	0.25	75
(GREEN)	12		15	0.25	45
ARROW	8		12	0.10	10
PED. SIGNAL	4		25	1.00	100
CONTROLLER	1		100	1.00	100
FLASHER					0.50
TOTAL =					432

ENERGY COSTS TO: ILLINOIS DEPARTMENT OF TRANSPORTATION  
201 WEST CENTER COURT  
SCHAUMBURG, IL 60196-1096  
ENERGY SUPPLY: CONTACT: ELEANOR SARALLO  
PHONE: 630-424-5124  
COMPANY: COM ED



THE END OF THE TRACER CABLE SHALL BE CONTINUOUS AND EXTEND INTO THE CONTROLLER CABINET.

CABLE PLAN  
NOT TO SCALE



USER NAME = JJe  
DESIGNED - MFB  
DRAWN - OJT  
PLOT SCALE = 20.0000' / in.  
PLOT DATE = 10/26/2016

REVISD -  
REVISD -  
REVISD -  
REVISD -  
DATE - 10/26/2016

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM,  
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE  
US ROUTE 14 (NORTHWEST HIGHWAY) AT BROADWAY STREET  
SCALE NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	87-Y-N	COOK	102	76
CONTRACT NO. 60J39				

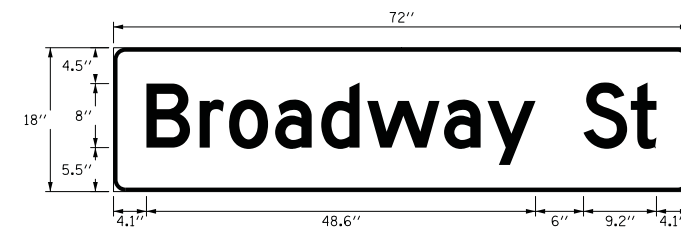
TS #13083

ILLINOIS FED. AID PROJECT

SCHEDULE OF QUANTITIES

PAY ITEM	UNIT	QNTY.
SIGN PANEL - TYPE 1	SQ FT	18
SERVICE INSTALLATION - POLE MOUNTED	EACH	1
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	571
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	156
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	104
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	435
HANDHOLE	EACH	3
HEAVY-DUTY HANDHOLE	EACH	1
DOUBLE HANDHOLE	EACH	2
MAINTENANCE OF EXISTING FLASING BEACON INSTALLATION	EACH	2
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	774
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1510
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2503
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1065
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1560
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	38
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	855
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	3
TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.	EACH	2
STEEL MAST ARM ASSEMBLY AND POLE 32 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE 38 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	20
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	27
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	3
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	1
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	5
INDUCTIVE LOOP DETECTOR	EACH	5
DETECTOR LOOP, TYPE I	FOOT	533
* LIGHT DETECTOR	EACH	3
* LIGHT DETECTOR AMPLIFIER	EACH	1
PEDESTRIAN PUSH-BUTTON	EACH	4
RELOCATE EXISTING FLASHING BEACON	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING FLASHING BEACON INSTALLATION COMPLETE	EACH	2
* EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	708
FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1

\* 100% COST TO THE CITY OF DES PLAINES



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	9.00	TYPE 1	ZZ	2

TS #13083

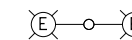






**GENERAL NOTES:**

1. THIS PROJECT INCLUDES THE INSTALLATION OF A NEW LIGHTING SYSTEM AT THE INTERSECTION OF U.S. ROUTE 14 (NORTHWEST HIGHWAY) AND BROADWAY STREET. THE PROPOSED LIGHTING SHALL BE OWNED AND MAINTAINED BY THE CITY OF DES PLAINES.
2. THE ONLY TWO EXISTING STREET LIGHTING UNITS LOCATED AT THE INTERSECTION OF US ROUTE 14 AND BROADWAY STREET ARE MOUNTED ON ComEd UTILITY WOODEN POLES AND SHALL BE REMOVED AND SALVAGED AFTER THE PROPOSED LIGHTING IS INSTALLED AND OPERATIONAL. THE CONTRACTOR SHALL CONTACT THE LOCAL ComEd OFFICE AND THE CITY OF DES PLAINES TO COORDINATE ALL ELECTRIC SERVICE WORK, INCLUDING REMOVAL OF EXISTING LIGHTING UNITS.
3. THE QUANTITIES OF RACEWAY WHERE INDICATED IN THESE PLANS ARE APPROXIMATIONS ONLY. THE CONTRACTOR SHALL FIELD VERIFY ALL LENGTHS AND SHALL INSTALL RACEWAYS IN COMPLETE COMPLIANCE WITH THE SPECIFIED REQUIREMENTS.
4. THE CONTRACTOR SHALL NOTIFY J.U.L.I.E. TO LOCATE AND MARK/STAKE ALL UNDERGROUND UTILITIES.
5. THE CONTRACTOR SHALL VERIFY LOCATIONS OF UNDERGROUND/OVERHEAD UTILITIES PRIOR TO INSTALLATION OF LIGHT POLES AND CONDUITS. IF THERE IS A CONFLICT WITH THE LIGHT POLES/CONDUITS AS SHOWN ON PLANS THE CONTRACTOR SHALL SUGGEST ALTERNATIVE LOCATIONS AND COORDINATE WITH THE ENGINEER PRIOR TO PERFORMING WORK.
6. TRENCHES FOR LIGHTING RACEWAYS SHALL HAVE A MINIMUM DEPTH OF 30".
7. LIGHTING SYSTEM INSTALLATION SHALL CONFORM TO THE LATEST IDOT STANDARDS, NEC AND LOCAL CODES.
8. ALL ELECTRICAL EQUIPMENT AND PRODUCTS SHALL BE U/L LISTED AND LABELED.
9. THE CONTRACTOR SHALL TAKE CARE WHEN INSTALLING UNIT DUCTS TO AVOID CONFLICTS WITH EXISTING UNDERGROUND UTILITIES AND TREES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE AS DETERMINED BY THE ENGINEER.
10. THE CONTRACTOR SHALL TAKE CARE WHEN INSTALLING LIGHT POLE FOUNDATIONS TO AVOID CONFLICTS WITH UNDERGROUND UTILITIES. WHEN CONFLICTS ARE ENCOUNTERED, THE CONTRACTOR SHALL REQUEST TO RELOCATE THE FOUNDATION. THE NEW LOCATION SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.

**BILL OF MATERIALS**

DESCRIPTION	UNIT	QUANTITY
ELECTRIC SERVICE INSTALLATION	EACH	1
ELECTRIC UTILITY SERVICE CONNECTION	L SUM	1
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	50
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	304
UNIT DUCT, 600V, 3-1C NO. 4, 1/C NO.6 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE	FOOT	1050
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 1/0	FOOT	150
LIGHTING CONTROLLER, PEDESTAL MOUNTED, 240 VOLT, 100AMP	EACH	1
LIGHT POLE, ALUMINUM, 47.5 FT.M.H., 8 FT. DAVIT ARM	EACH	7
LIGHT POLE FOUNDATION, METAL, 15" BOLT CIRCLE, 10" X 8'	EACH	7
BREAKAWAY DEVICE, TRANSFORMER BASE, 15 INCH BOLT CIRCLE	EACH	7
LUMINAIRE, LED, HORIZONTAL MOUNT, 285 WATT	EACH	7
LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	7

**LEGEND**

-  EXISTING LIGHTING UNIT TO REMAIN
-  PROPOSED LIGHTING UNIT: 47.5 FT. MH, 8 FT. DAVIT ARM, 285W, 240V LED LUMINAIRE WITH BREAKAWAY DEVICE
-  UNIT DUCT, 600V, 3-1/C #4, 1/C #6 GROUND (XLP-TYPE USE) 1 1/4" DIA. POLYETHYLENE
-  COMED ELECTRIC SERVICE 240/480V, 1 PHASE 3 WIRE
-  PROPOSED LIGHTING CONTROLLER 240/480V, 3 WIRE 100 AMP, PEDESTAL MOUNTED
-  RIGID GALVANIZED STEEL CONDUIT PUSHED AS INDICATED
-  ELECTRIC CABLE IN CONDUIT 2 1/2" DIA., 3-1/C NO. 1/0

FILE NAME = \$MODELNAME\$  
\$FILEL\$

**AMES Engineering, Inc.**  
CONSULTING ENGINEERS  
5413 Walnut Avenue, Ste 2  
Downers Grove, IL 60515

USER NAME = \$USER\$	DESIGNED - MB	REVISED -
	DRAWN - RV	REVISED -
PLOT SCALE = \$SCALE\$	CHECKED - BL	REVISED -
PLOT DATE = \$DATE\$	DATE - 11-01-16	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

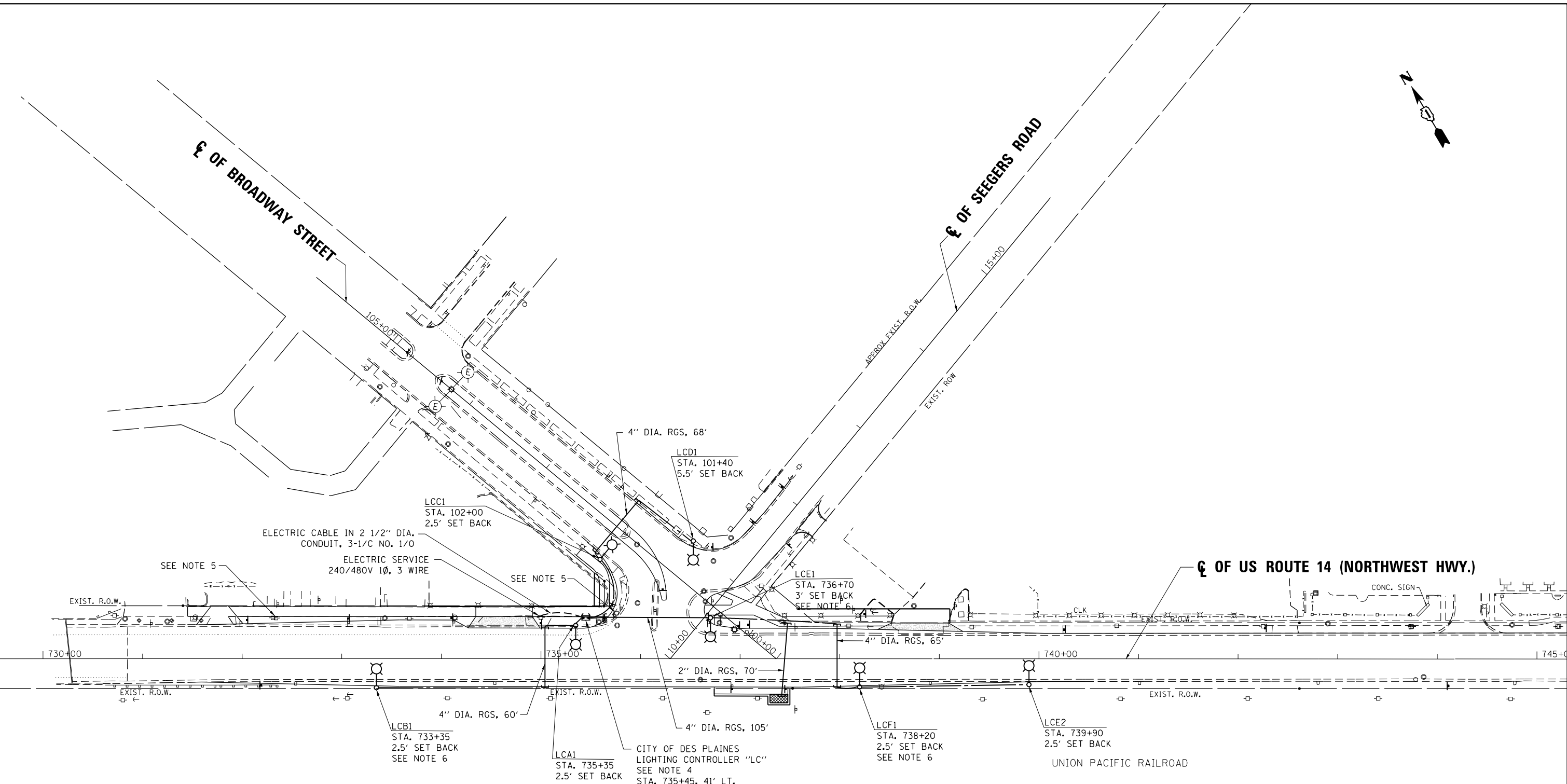
**GENERAL NOTES, BILL OF MATERIALS AND LEGEND  
U.S. ROUTE 14 AT BROADWAY STREET**

SCALE: NONE SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	87-Y-N	COOK	102	78
CONTRACT NO. 60J39			ILLINOIS FED. AID PROJECT \$LIGHT01\$	

**LT-01**

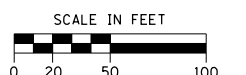




**NOTES:**

1. FOR GENERAL NOTES, LEGEND, AND BILL OF MATERIALS SEE SHEET LT-01.
2. LAST POLE OF EACH CIRCUIT SHALL BE PROVIDED WITH 4" DIA. PVC SLEEVE WITH CAP FOR FUTURE EXPANSION OF STREET LIGHTING.
3. SETBACKS INDICATED ARE FROM FACE OF CURB TO THE CENTER OF LIGHT POLE.
4. THE CONTRACTOR SHALL MARK THE PEDESTAL MOUNTED LIGHTING CONTROLLER LOCATION FOR APPROVAL BY THE ENGINEER PRIOR TO INSTALLATION.
5. EXISTING MAST ARM AND LUMINAIRE TO BE REMOVED FROM COMED POLE.
6. THE CONTRACTOR SHALL USE CARE WITH THE POLE INSTALLATION NEAR EXISTING UNDERGROUND UTILITIES.

EXIST. R.O.W.



FILE NAME = \$MODELNAME\$  
\$FILEL\$

**AMES Engineering, Inc.**  
CONSULTING ENGINEERS  
5413 Walnut Avenue, Ste 2  
Downers Grove, IL 60515

USER NAME = \$USER\$	DESIGNED - MB	REVISED - 12-07-16
	DRAWN - RV	REVISED -
PLOT SCALE = \$SCALE\$	CHECKED - BL	REVISED -
PLOT DATE = \$DATE\$	DATE - 11-01-16	REVISED -

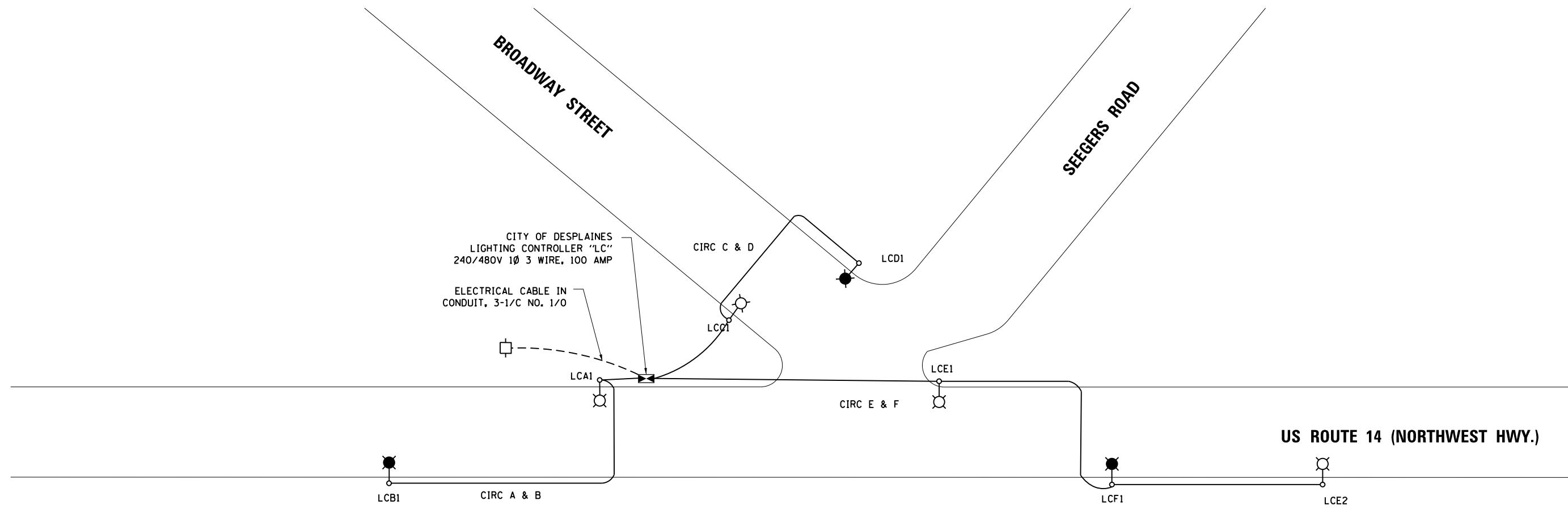
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PROPOSED LIGHTING PLAN  
U.S. ROUTE 14 AT BROADWAY STREET**

SCALE: 1"=50'    SHEET    OF    SHEETS    STA.    TO    STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	87-Y-N	COOK	102	79
CONTRACT NO. 60J39				
ILLINOIS FED. AID PROJECT				

**LT-02**



**LOAD TABLE**

CIRCUIT	TOTAL AMPS	TOTAL WATTS
A	1.0	285
B	1.0	285
C	1.0	285
D	1.0	285
E	2.0	570
F	1.0	285
G	SPARE	SPARE
H	SPARE	SPARE
<b>TOTAL</b>	<b>7.0</b>	<b>1995</b>

**LEGEND**

- LED LUMINAIRE, 285W, 240V ON RED CIRCUIT
- LED LUMINAIRE, 285W, 240V ON BLACK CIRCUIT
- PROPOSED LIGHTING CONTROLLER "LC"
- UNIT DUCT, 3-1/2" #4, 1/2" #6 GROUND
- ELECTRIC SERVICE 240/480V, 1Ø, 3 WIRE

FILE NAME = \$MODELNAME\$  
\$FILEL\$

**AMES Engineering, Inc.**  
CONSULTING ENGINEERS  
5413 Walnut Avenue, Ste 2  
Downers Grove, IL 60515

USER NAME = \$USER\$  
PLOT SCALE = \$SCALE\$  
PLOT DATE = \$DATE\$

DESIGNED - MB  
DRAWN - RV  
CHECKED - BL  
DATE - 11-01-16

REVISED -  
REVISED -  
REVISED -  
REVISED -

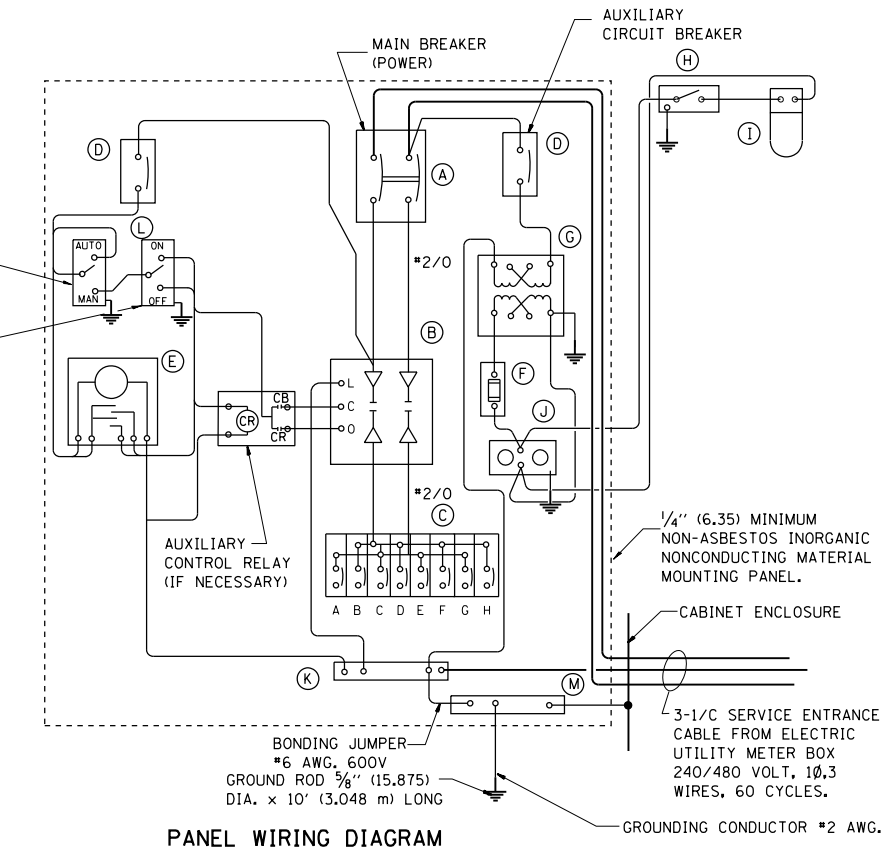
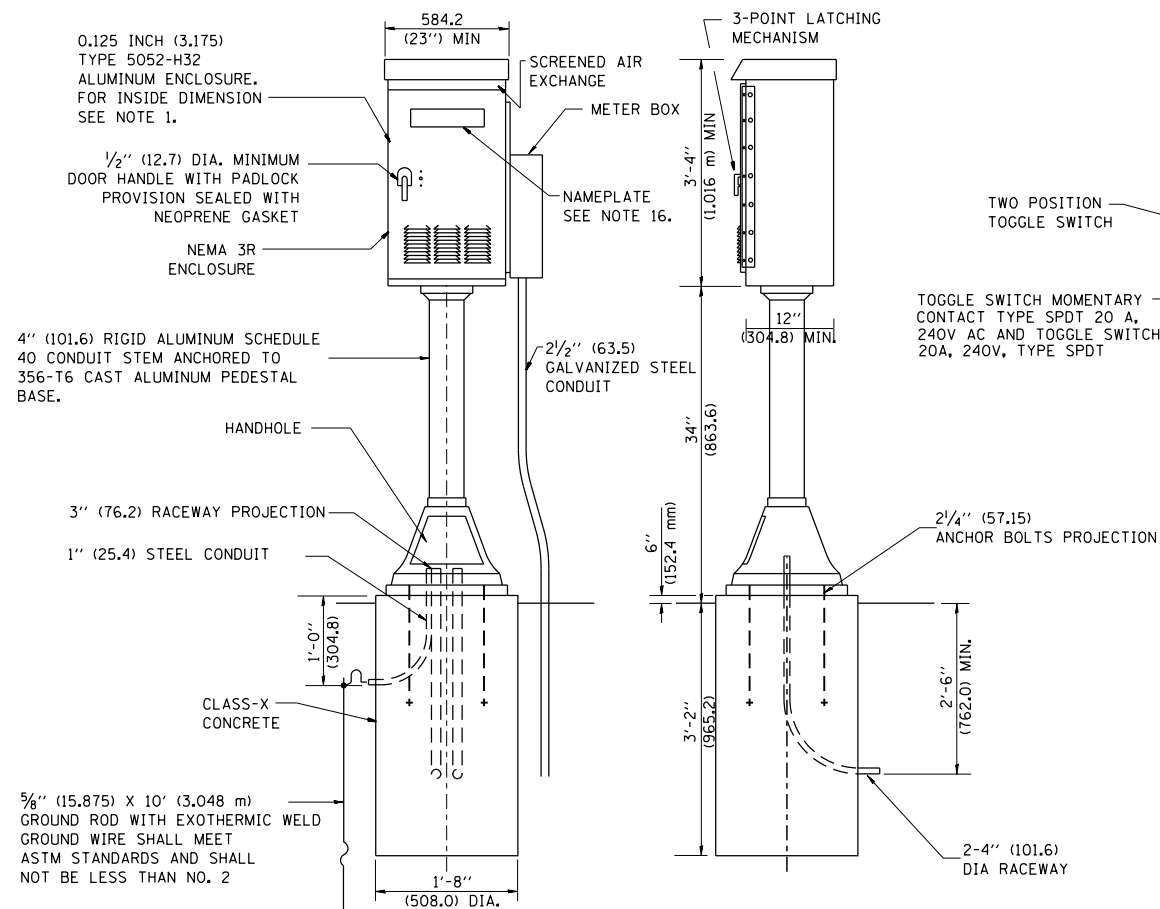
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SINGLE LINE WIRING DIAGRAM  
U.S. ROUTE 14 AT BROADWAY STREET**

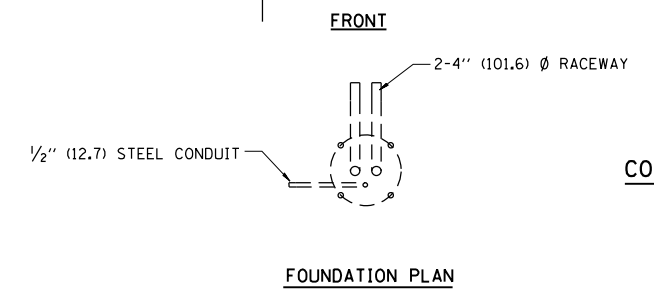
SCALE: N.T.S. SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	87-Y-N	COOK	102	80
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60J39	
			\$LIGHT01\$	

**LT-03**



PANEL EQUIPMENT		
BILL OF MATERIAL		
ITEM	QUANTITY	DESCRIPTION
A	1	MAIN CIRCUIT BREAKER, 2 POLE, 600 VOLT 100 AMP. FRAME, 100 AMP. NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA-22000 AMP. AT 480 VOLT.
B	1	REMOTE CONTROL SWITCH, ELECTRICALLY OPERATED, MECHANICALLY HELD, 2 POLE, SINGLE THROW, 100 AMP., 600 VOLTS CONTROL CIRCUIT 240 VOLT.
C	8	CIRCUIT BREAKERS, 1 POLE, 277V., 100 AMP., FRAME 50 AMP. NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA-10,000 AMP. AT 240 V.
D	2	CONTROL CIRCUIT-CIRCUIT BREAKER, 1 POLE, 240 V., 100 AMP. FRAME, 15 AMP. NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA-5000 AMP. AT 240 V.
E	1	ASTRONOMIC MICROPROCESSOR-BASED 2-CHANNEL CONTROLLER (TIME SWITCH).
F	1	20 A., 120 V. FUSE.
G	1	1.5 KVA, SINGLE PHASE, ENCAPSULATED TRANSFORMER 240 X 480 / 120 X 240 VOLT, 60 Hz.
H	1	SPST 20A SWITCH ON DOOR, TO TURN LIGHT ON WHEN DOOR IS OPEN,
I	1	INCANDESCENT LIGHTING FIXTURE ENCLOSED AND GASKETED WITH 60 WATT, 120 V. LAMP.
J	1	20 A., 120 V., DUPLEX RECEPTACLE, GFCI.
K	1	COPPER GROUND BUS 1/4" (6.35) X 1" (25.4) X 12" (304.8 mm) LONG MOUNTED ON PANEL WITH LUGS AND 4 SPARE LUGS
L	1	TOGGLE SWITCHES MOUNTED IN 4" (101.6) X 4" (101.6 mm) BOX.
M	1	COPPER GROUND BUS 1/4" (6.35) X 1" (25.4) X 12" (304.8 mm) LONG MOUNTED ON PANEL WITH LUGS AND SPARE LUGS



**CONTROL CABINET**

**NOTES:**

- ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- UNLESS OTHERWISE INDICATED, THE CABINET SHALL BE MOUNTED ATOP A 4-INCH (101.6 mm) RIGID ALUMINUM SCHEDULE 40 CONDUIT STEM ANCHORED TO A CAST ALUMINUM PEDESTAL BASE.
- IN FRONT OF CONTROL CABINET DOOR, REMOVE VEGETATION AND 2" (50.8 mm) TOP SOIL, LEVEL THE AREA AND ON TOP, PLACE LENGTH WISE PARALLEL TO CONTROL CABINET, A CONCRETE PAD 36" (914.4 mm) X 60" (1828.8 mm) X 4" (101 mm) MIN. SIZE. THE COST OF LABOR AND MATERIALS ARE INCLUDED IN THE COST OF THE CONTROLLER.
- DOOR SHALL BE CONSTRUCTED FROM SAME TYPE OF MATERIAL AND THICKNESS AS CABINET.
- DOOR SHALL BE EQUIPPED WITH THREE POINT LATCHING MECHANISM WITH NYLON ROLLERS AT TOP THE BOTTOM.
- DOOR HINGE SHALL BE A HEAVY GAUGE CONTINUOUS HINGE WITH A 1/4" (6.35 mm) DIA. STAINLESS STEEL HINGE PIN.
- ALL EXTERNAL HARDWARE SHALL BE STAINLESS STEEL.
- CONTROL WIRING TO BE #12 AWG, 600V, TYPE "SIS" GRAY SWITCH BOARD WIRE, STRANDED COPPER.
- METER BOX SHALL BE MOUNTED ON THE SIDE OF CONTROL CABINET, NEAR TO THE SERVICE POLE.
- CABINETS SHALL BE PRIMED AND PAINTED AS SPECIFIED.
- THE HEADS OF CONNECTORS SCREWS SHALL BE PAINTED WHITE FOR NEUTRAL BAR CONNECTION AND GREEN FOR GROUND BAR CONNECTORS.
- ALL WIRING WITHIN THE CABINET SHALL BE COLOR CODED AS INDICATED.  
R = RED      BL = BLUE      W = WHITE  
B = BLACK    Y = YELLOW      G = GREEN
- PROVIDE SEALING GROMMETS FOR ALL OPEN WIRING EXTENDED FROM DEVICES IN BOXES OR CABINETS WITHIN THE CONTROL CABINET.
- ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.
- THE CONTROLLER SHALL BE CONSTRUCTED TO U.L. STD. 508 AND BEAR THE U.L. LABEL "ENCLOSED INDUSTRIAL CONTROL PANEL".
- 12" (304.8) X 16" (406.4 mm) STAINLESS STEEL EXTERIOR NAMEPLATE SHALL BE ENGRAVED TO "STATE OF ILLINOIS LIGHTING CONTROLS" UNLESS OTHERWISE SPECIFIED.

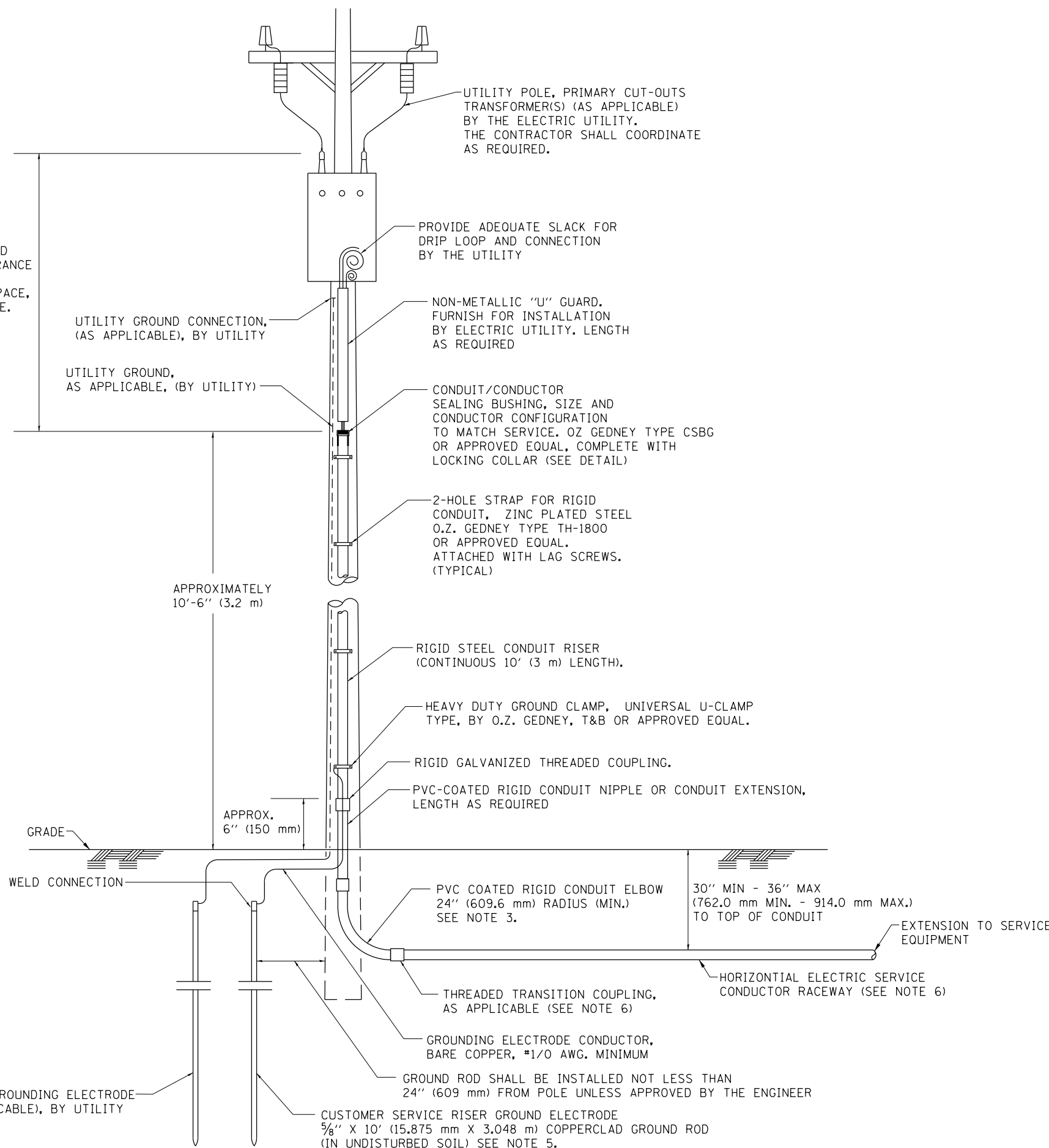
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p:\11\084EBIDINTEG.illinois.gov\PIDOT\Documents\IDOT Offices\District 1\Projects\P14390\Drawings\Design\DistStd.dgn		CHECKED - R. GUPTA	REVISED - R. TOMSONS 08-19-04
		DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>LIGHTING CONTROLLER PEDESTAL MOUNT</b>	
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS
STA.	TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	87-Y-N	COOK	102	81
<b>BE-210</b>		<b>CONTRACT NO. 60J39</b>		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

ASCERTAIN AND ASSURE CLEARANCE FROM UTILITY SECONDARY SPACE, AS APPLICABLE.

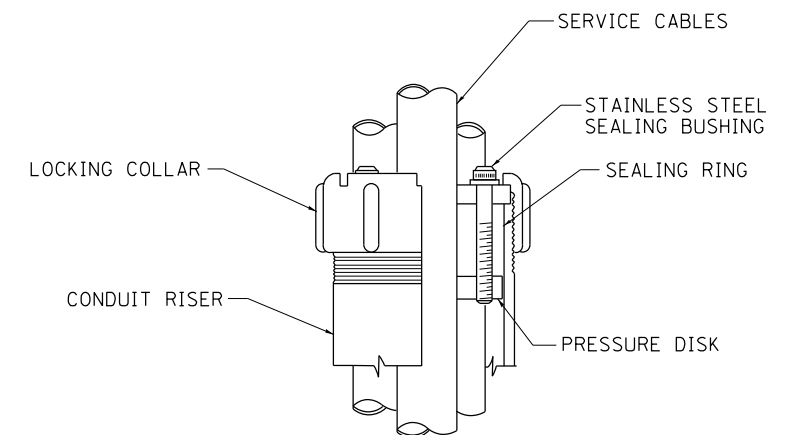


APPLICATION

THIS DETAIL APPLIES FOR LOW VOLTAGE ELECTRIC SERVICE (660 V OR LESS) FROM AN OVERHEAD UTILITY SUPPLY TO SEPERATLY-MOUNTED SERVICE EQUIPMENT.

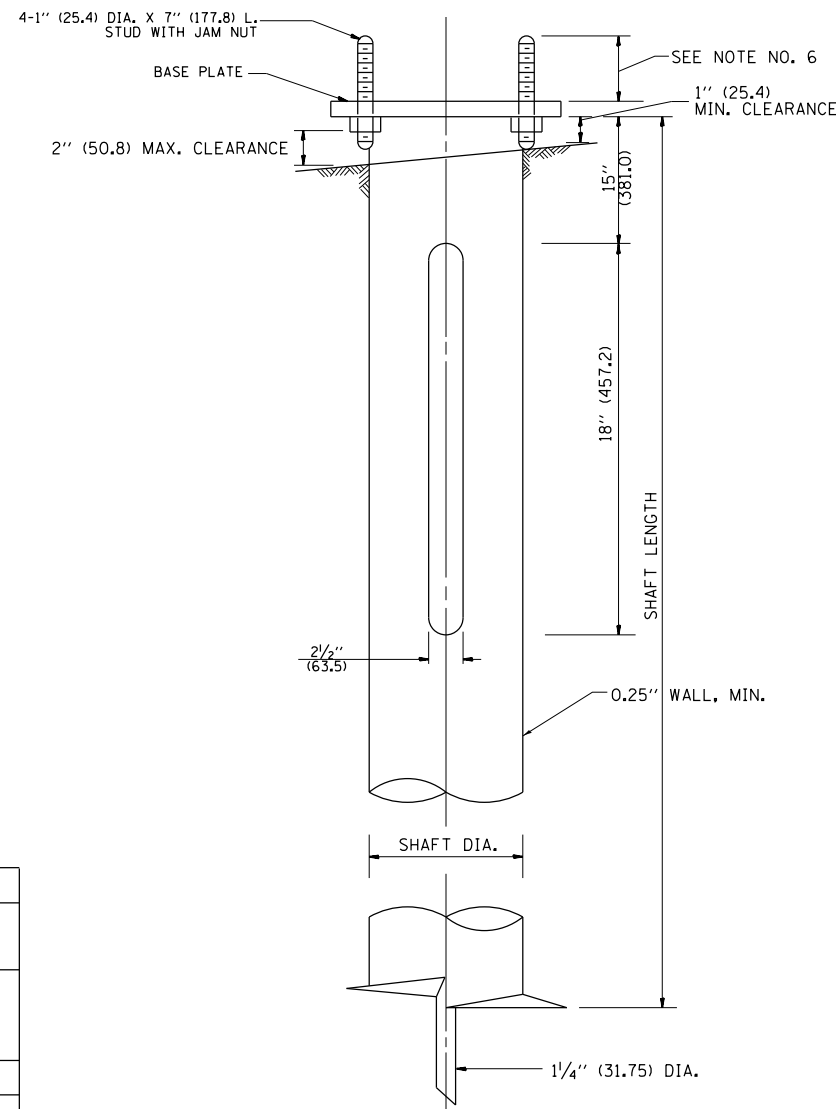
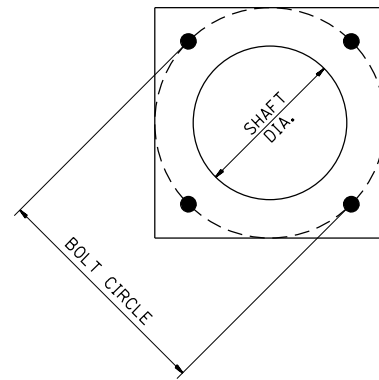
NOTES

- SERVICE VOLTAGE SHALL BE AS INDICATED ELSEWHERE IN THE DRAWINGS.
- UNLESS OTHERWISE INDICATED, ITEMS AND WORK SHALL BE INCLUDED AND PAID AS PART OF THE ELECTRIC UTILITY SERVICE INSTALLATION PAY ITEM.
- CONDUIT AND CONNECTOR DIAMETER SHALL MATCH THE DIAMETER OF THE SERVICE CONDUCTOR RACEWAY AS INDICATED ON THE PLANS.
- PVC COATED RACEWAYS AND ACCESSORIES SHALL BE CAREFULLY INSTALLED WITH MFR RECOMMENDED TOOLS AND PROCEDURES TO AVOID DAMAGE. ANY DAMAGE SHALL BE REPAIRED WITH COMPATIBLE PVC TOUCH-UP MATERIAL TO THE SATISFACTION OF THE ENGINEER OR THE DAMAGED MATERIAL SHALL BE REPLACED AT NO ADDITIONAL COST.
- THE CONTRACTOR SHALL OBTAIN INSPECTION AND APPROVAL BY THE ENGINEER OF SERVICE RISER GROUND ELECTRODE, RISER ELBOW, NIPPLE AND CONNECTION TO SERVICE CONDUCTOR RACEWAY EXTENSION BEFORE BACKFILL AND SHALL ALSO OBTAIN INSPECTION OF SERVICE RISER AND SEALING BUSHING BEFORE UTILITY "U" GUARD INSTALLATION AND SERVICE CONNECTION.
- THE HORIZONTAL ELECTRIC SERVICE CONDUCTOR RACEWAY SHALL BE AS INDICATED AND SHALL BE MEASURED SEPARATELY FOR PAYMENT. WHEN THE RACEWAY IS PVC-COATED RIGID GALVANIZED STEEL, THE COUPLING SHALL BE THE SAME. WHEN THE RACEWAY IS PVC CONDUIT (IN CONCRETE), THE COUPLING SHALL BE A METALIC TO NON METALIC ADAPTER. WHEN THE RACEWAY IS ENCASED IN CONCRETE, THE CONCRETE SHALL EXTEND TO COVER THE COUPLING.
- PLANS AND DETAILS INDICATE THE GENERAL NATURE AND REQUIREMENTS. THEY DO NOT SHOW EVERY ACCESSORY AND ATTACHMENT, AND THEY DO NOT RELIEVE THE CONTRACTOR OF THE REQUIREMENTS OF THE SPECIFICATIONS AND SPECIAL PROVISIONS TO ASCERTAIN UTILITY REQUIREMENTS AND TO COORDINATE ACCORDINGLY, FURNISHING ALL ITEMS AND WORK NOT PROVIDED BY THE UTILITY, BUT NECESSARY FOR A COMPLETE SERVICE INSTALLATION IS REQUIRED AND SHALL BE INCLUDED IN THE ELECTRIC UTILITY SERVICE INSTALLATION PAY ITEM.



SEALING BUSHING DETAIL

FILE NAME =	USER NAME = bartonw	DESIGNED -	REVISED - 03-03-06	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>ELECTRIC SERVICE INSTALLATION AERIAL, REMOTE DISCONNECT</b>			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw\11084EBIDINTEG.illinois.gov\PIWIDOT\Documents\IDOT Offices\District 1\Projects\PI439\Drawings\Design\DistStd.dgn		CHECKED - MEA	REVISED -		3512	87-Y-N	COOK	102	82			
PLOT SCALE = 100.0000' / 1"		DATE -	REVISED -		<b>BE-220</b>		<b>CONTRACT NO. 60J39</b>					
PLOT DATE = 11/3/2016					FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							
				SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.					



#### HELIX FOUNDATION SIZE

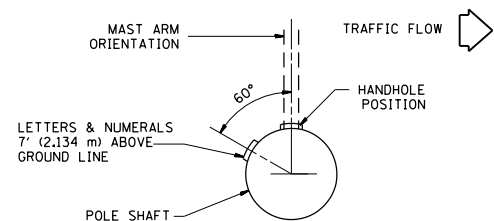
POLE MOUNTING HEIGHT	BOLT CIRCLE	SHAFT DIAMETER	SHAFT LENGTH	BASEPLATE
30 FT.	11 1/2"	8 5/8"	6 FT.	12"x12"x1"
31 FT.-35 FT.	11 1/2"	8 5/8"	6 FT.	12"x12"x1"
36 FT.-40 FT.	15"	8 5/8"	6 FT.	15"x15"x1 1/4"
41 FT.-45 FT.	15"	8 5/8"	6 FT.	15"x15"x1 1/4"
46 FT.-50 FT.	15"	10"	8 FT.	15"x15"x1 1/4"

#### METAL HELIX FOUNDATION MATERIALS

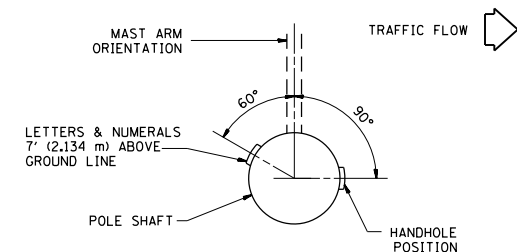
ITEM	MATERIAL REQUIREMENT
BASEPLATE	AASHTO M 270M, GRADE 36 (M270M, GRADE 250)
SHAFT	ASTM A 252, GRADE 2 (PHOSPHOROUS 0.04% MAXIMUM, SULFUR 0.05% MAXIMUM)
HELIX SCREW	AASHTO M 183 (ASTM A 635)
PILOT POINT	AASHTO M 270 (ASTM A 575)
ANCHOR RODS/STUDS	AASHTO M 314 (ASTM F 1554)
HEXAGON NUTS	AASHTO M 291M (ASTM A 563) GRADE DH, OR AASHTO M 292 (ASTM A 194) GRADE 2H
WASHERS	AASHTO M 293 (ASTM F 436)

#### NOTES:

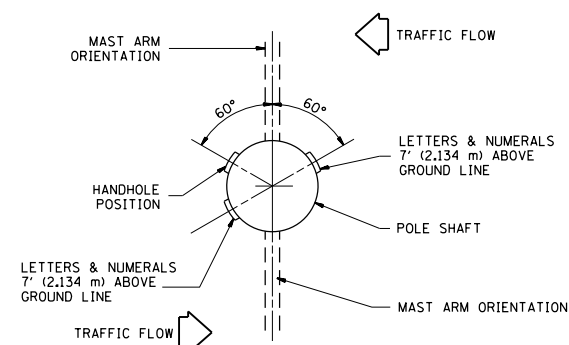
- ALL DIMENSION IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- ALL MATERIAL SHALL BE GALVINIZED ACCORDING TO AASHTO M111, UNLESS OTHERWISE SPECIFIED.
- ALL WELDS SHALL BE CONTINUOUS AND NOT LESS THAN 1/4" (6.35 mm) FILLET WELDS. THE WELDED FOUNDATION SHALL BE CAPABLE OF WITHSTANDING 10,000 FT/LBS (13558.18 n.m) OF INSTALLATION TORQUE APPLIED ABOUT THE AXIS OF THE FOUNDATION.
- THE HELIX FOUNDATION SHAFT SHALL BE INSTALLED VERTICAL AND THE BASE PLATE SHALL BE IN LEVEL. THE BREAKAWAY COUPLINGS AND HARDWARE SHALL NOT BE USED TO ALIGN THE POLE INSTALLATION.
- THE CABLE TRENCH SHALL BE BACKFILLED AND FIRMLY COMPACTED BEFORE THE INSTALLATION OF THE LIGHT POLE.
- THE CONTRACTOR SHALL COORDINATE EXTENSION OF ANCHOR BOLTS ABOVE TOP OF THE BASE PLATE WITH THE BREAKAWAY DEVICE MANUFACTURER'S REQUIREMENTS.
- ANY VOIDS WITHIN THE METAL FOUNDATION SHALL BE FILLED WITH FINE AGGREGATE.
- METAL FOUNDATIONS SHALL BE INSTALLED IN UNDISTURBED SOIL. PREDRILLING A PILOT HOLE AND/OR BACKFILLING AROUND THE FOUNDATION IS NOT ALLOWED.
- THE METAL FOUNDATION SHALL NOT BE INSTALLED TO A TORQUE WHICH EXCEEDS THE MANUFACTURER'S MAXIMUM TORQUE RATING NOR SHALL IT BE INSTALLED TO AN INSTALLATION TORQUE VALUE OF LESS THAN 3,500 FT LB (4,750 KNM). METAL FOUNDATIONS THAT ARE NOT INSTALLED TO FULL INSTALLATION DEPTH OR DO NOT ACHIEVE THE MINIMUM INSTALLATION TORQUE SHALL BE REMOVED AND REPLACED WITH A CONCRETE FOUNDATION AT NO ADDITIONAL COST.
- THE BASEPLATE SHALL BE PERPENDICULAR TO THE SHAFT AXIS ( $\pm 1^\circ$ ) AND THE HOLE CENTERLINE SHALL BE CONCENTRIC ( $\pm 0.188$ ) TO THE SHAFT AXIS.
- THE PILOT POINT AND SHAFT AXIS SHALL BE CONCENTRIC ( $\pm 0.125$ ) AND IN LINE ( $\pm 2^\circ$ ).
- THE BASEPLATE SHALL BE STAMPED WITH THE MANUFACTURERS NAME AND DATE OF MANUFACTURE.



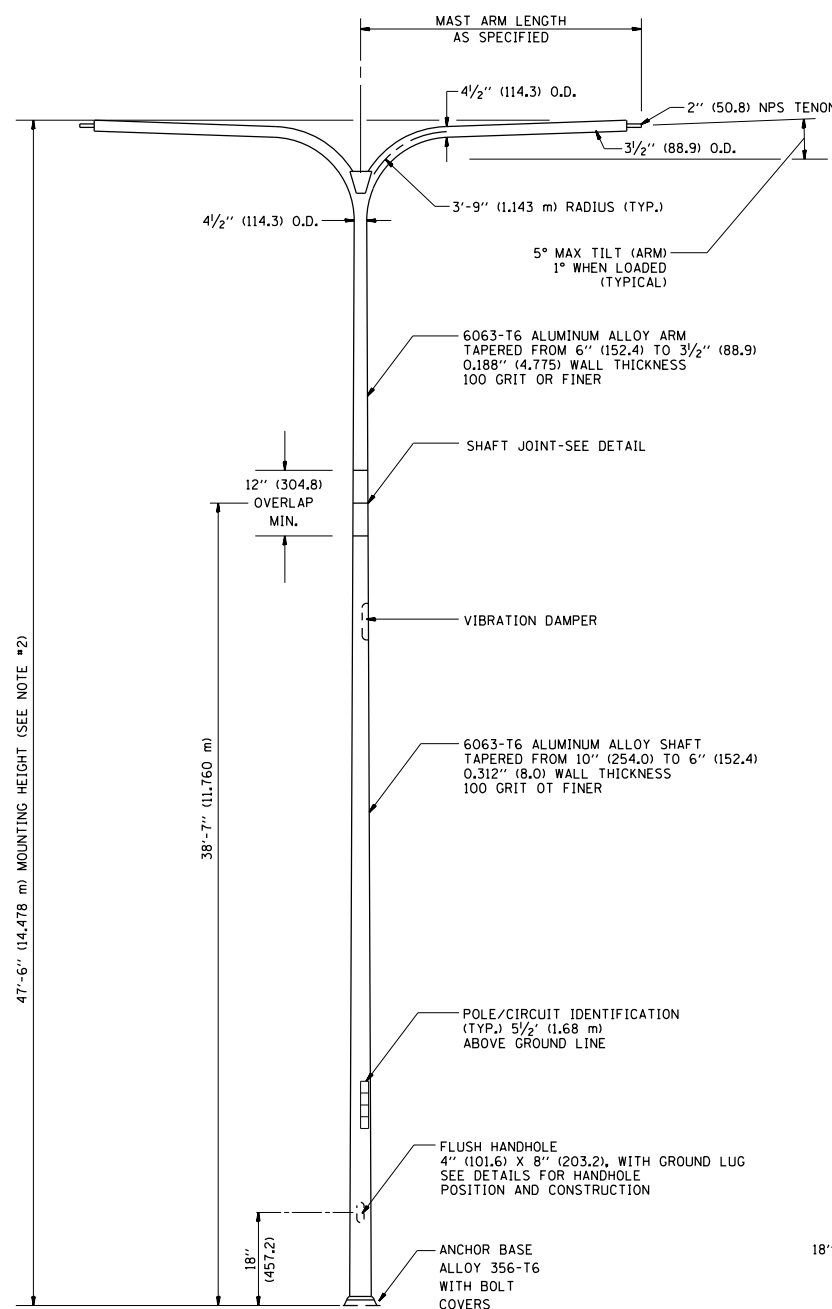
POSITION OF HANDHOLE AND POLE NUMBER FOR SINGLE MAST ARM POLES MOUNTED ON BRIDGE PARAPET OR BARRIER WALL



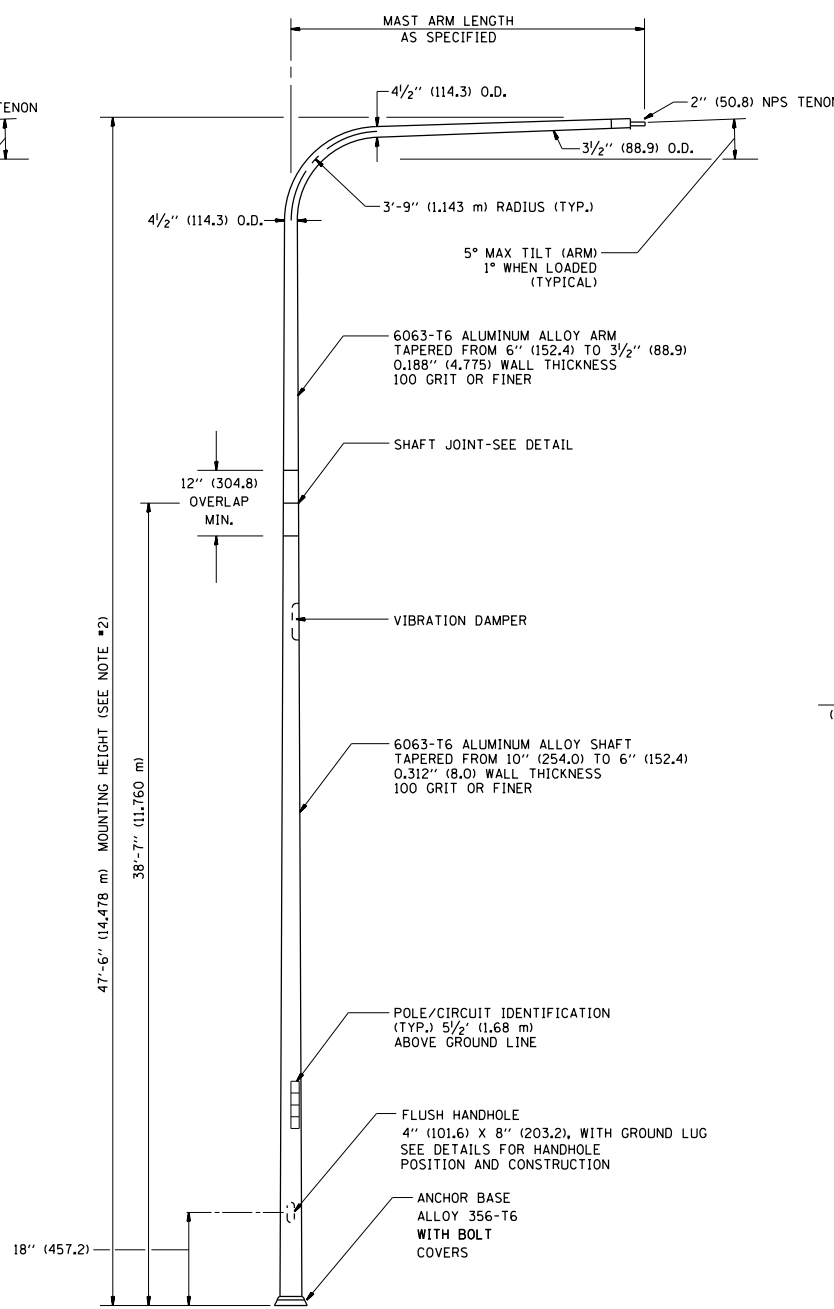
POSITION OF HANDHOLE AND POLE NUMBER FOR SINGLE MAST ARM POLES



POSITION OF HANDHOLE AND POLE NUMBER FOR TWIN MAST ARM POLES

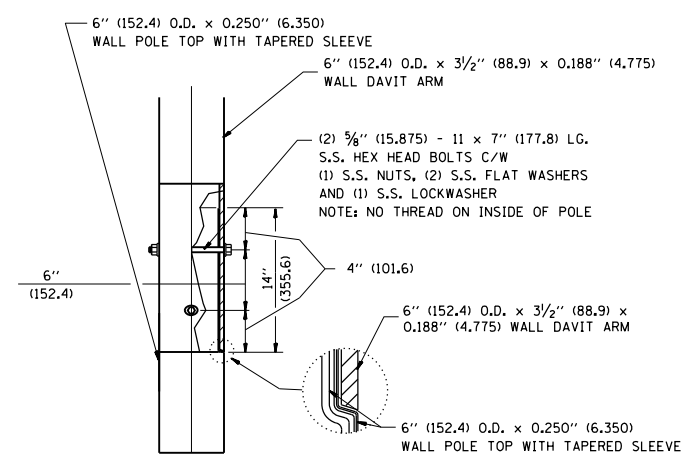


TWIN ARM POLE

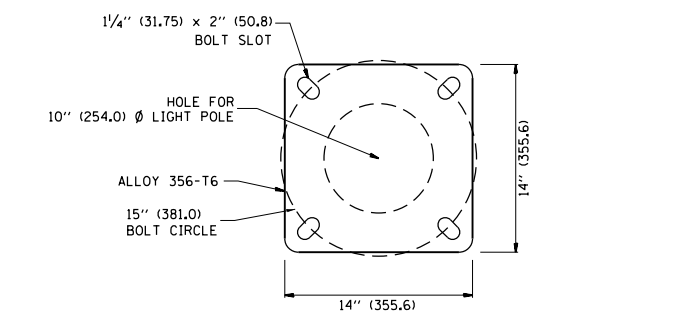


SINGLE ARM POLE

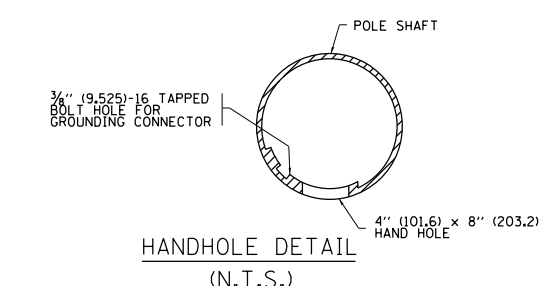
- NOTES:**
1. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
  2. MOUNTING HEIGHT IS DEFINED AS THE DISTANCE FROM THE CENTERLINE OF THE TENON TO THE BOTTOM OF THE ANCHOR BASE.
  3. TWO PIECE SHAFT WILL BE MATCHED MARKED AND INTERCHANGEABLE BETWEEN DIFFERENT UNITS. FIELD DRILLING OF THE HOLES WILL NOT BE ALLOWED.
  4. THE LIGHT POLE WILL MEET AASHTO DESIGN CRITERIA AS SPECIFIED.
  5. THE INSTALLING CONTRACTOR WILL PROVIDE A UL LISTED GROUNDING CONNECTOR, BURNDY K2C23, T&B SP40L OR APPROVED EQUAL.
  6. LIGHT POLES WILL NOT BE INSTALLED WITHOUT MAST ARMS AND LUMINAIRES.
  7. LIGHT POLES WILL BE SET PLUMB ON THE FOUNDATION WITHOUT THE USE OF LEVELING NUTS, WASHERS OR SHIMS.
  8. LIGHTING UNIT IDENTIFICATION NUMBERS SHALL BE INSTALLED BEFORE THE LIGHTING UNIT IS ENERGIZED.



DAVIT ARM CONNECTION  
[14" (355.6) OVERLAP SHOWN]

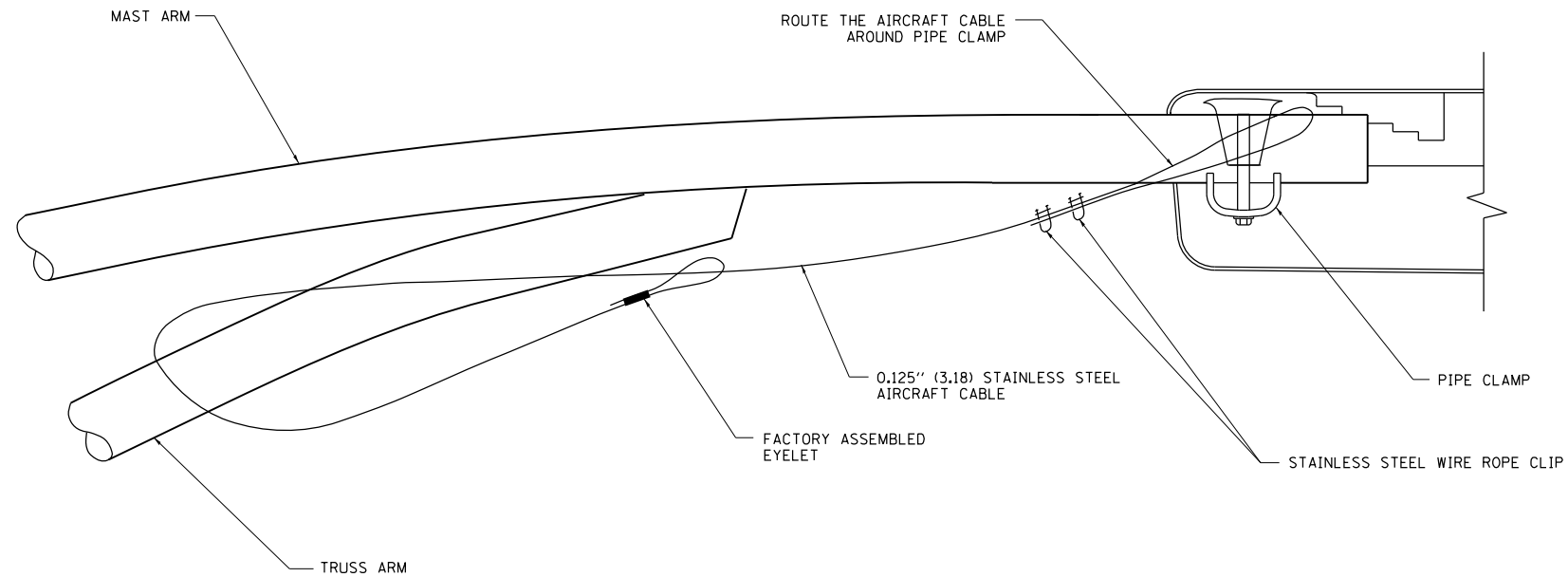


LIGHT POLE BASE PLATE DETAIL  
(FOR POLE MOUNTED ON 15 INCH (381.0) BOLT CIRCLE FOUNDATION)

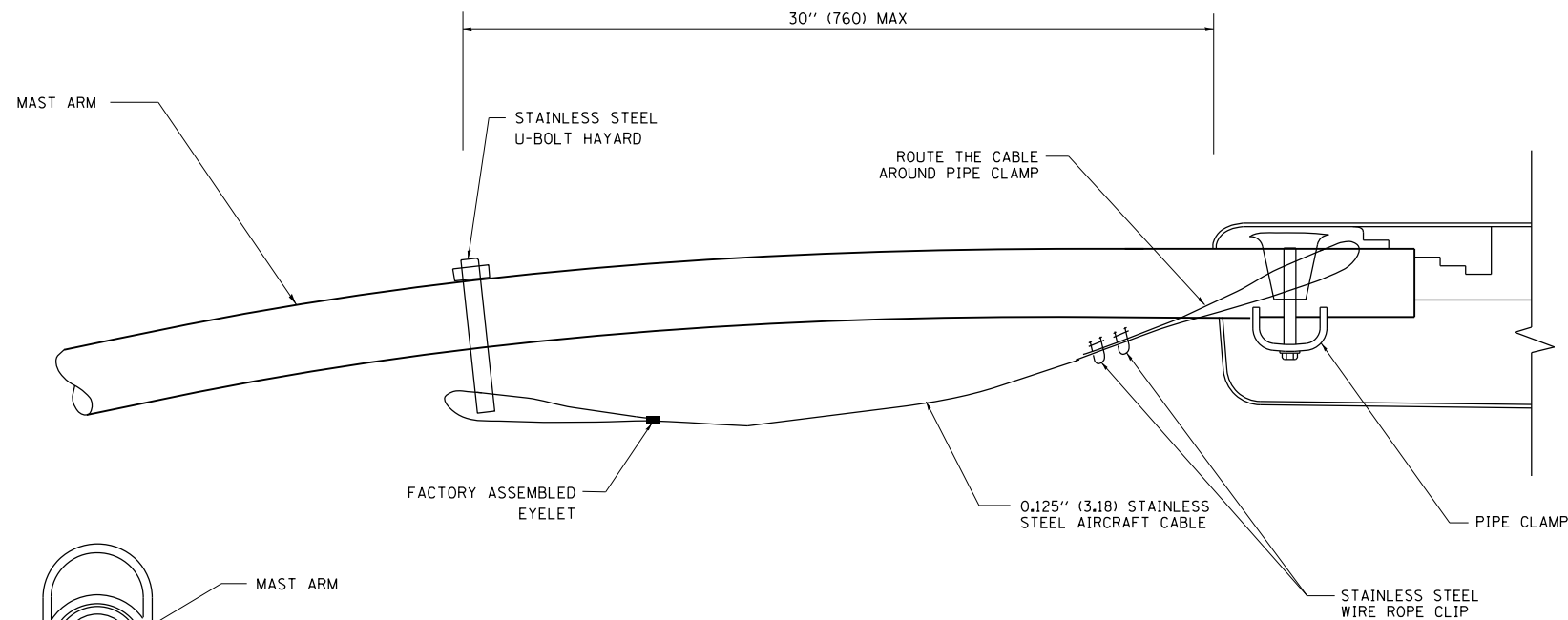


HANDHOLE DETAIL  
(N.T.S.)

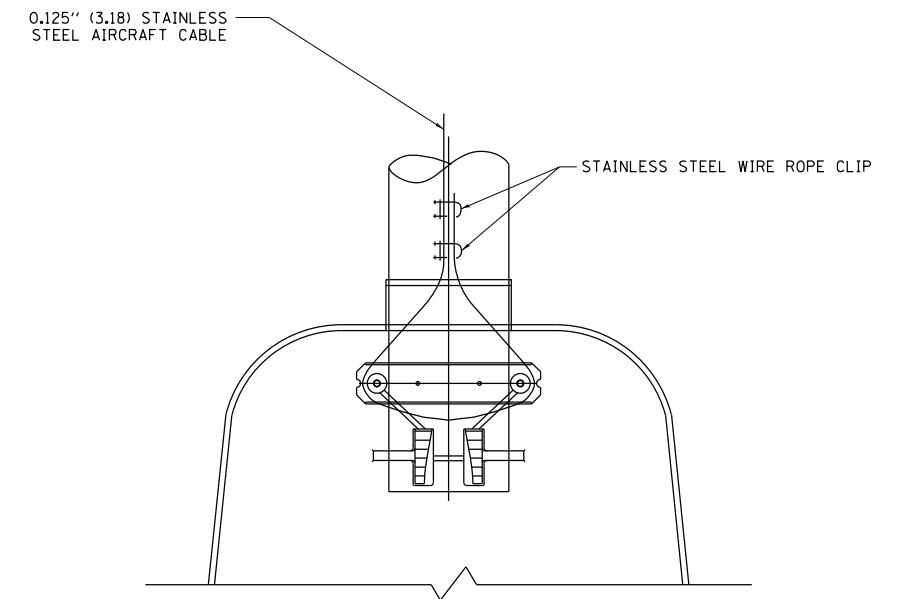
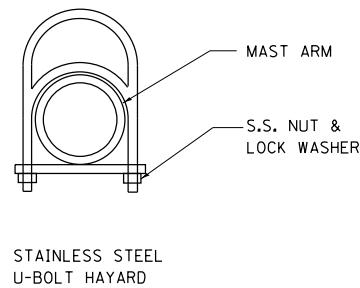
FILE NAME =	USER NAME = bartonrw	DESIGNED -	REVISED - D. DREW 05-07-92	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DAVIT LIGHT POLE 47'-6" (14,478 m) MOUNTING HEIGHT</b>			F.A.U. R.T.E. =	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw\l\084EBIDINTEG.illinois.gov\PIWIDOT\Documents\DOT Offices\District 1\Projects\PI4390\Drawings\Design\B&TStd.dgn		CHECKED -	REVISED - R. TOMSONS 09-06-00		3512	87-Y-N	COOK	102	84			
PLOT SCALE = 100.0000' / in.		DATE -	REVISED - R. TOMSONS 09-02-03		<b>BE-410</b>		<b>CONTRACT NO. 60J39</b>					
PLOT DATE = 11/3/2016			REVISED - R. TOMSONS 01-18-13		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



**SIDE VIEW (TRUSS ARM)**  
N.T.S.



**SIDE VIEW (SINGLE MEMBER OR DAVIT ARM)**  
N.T.S.

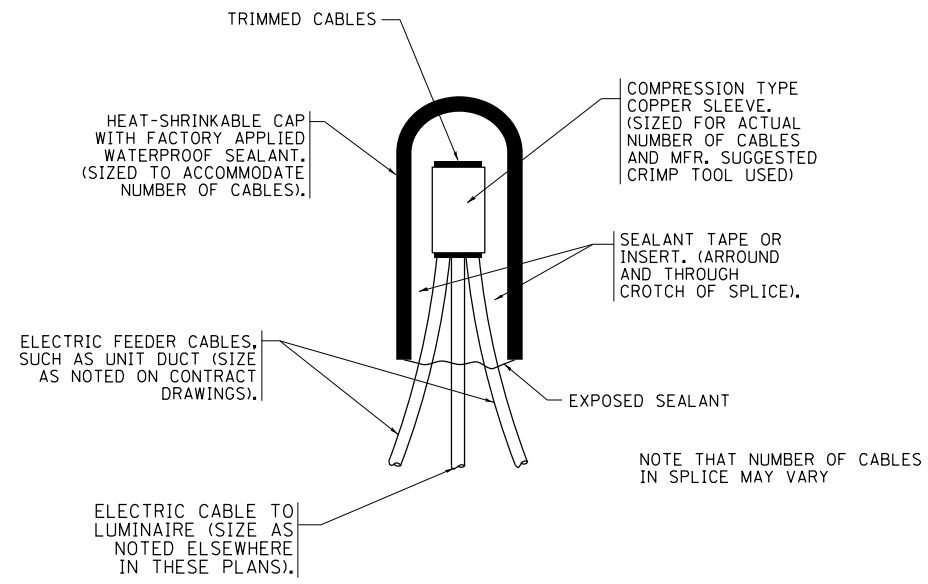


**BOTTOM VIEW**  
N.T.S.

**NOTES:**

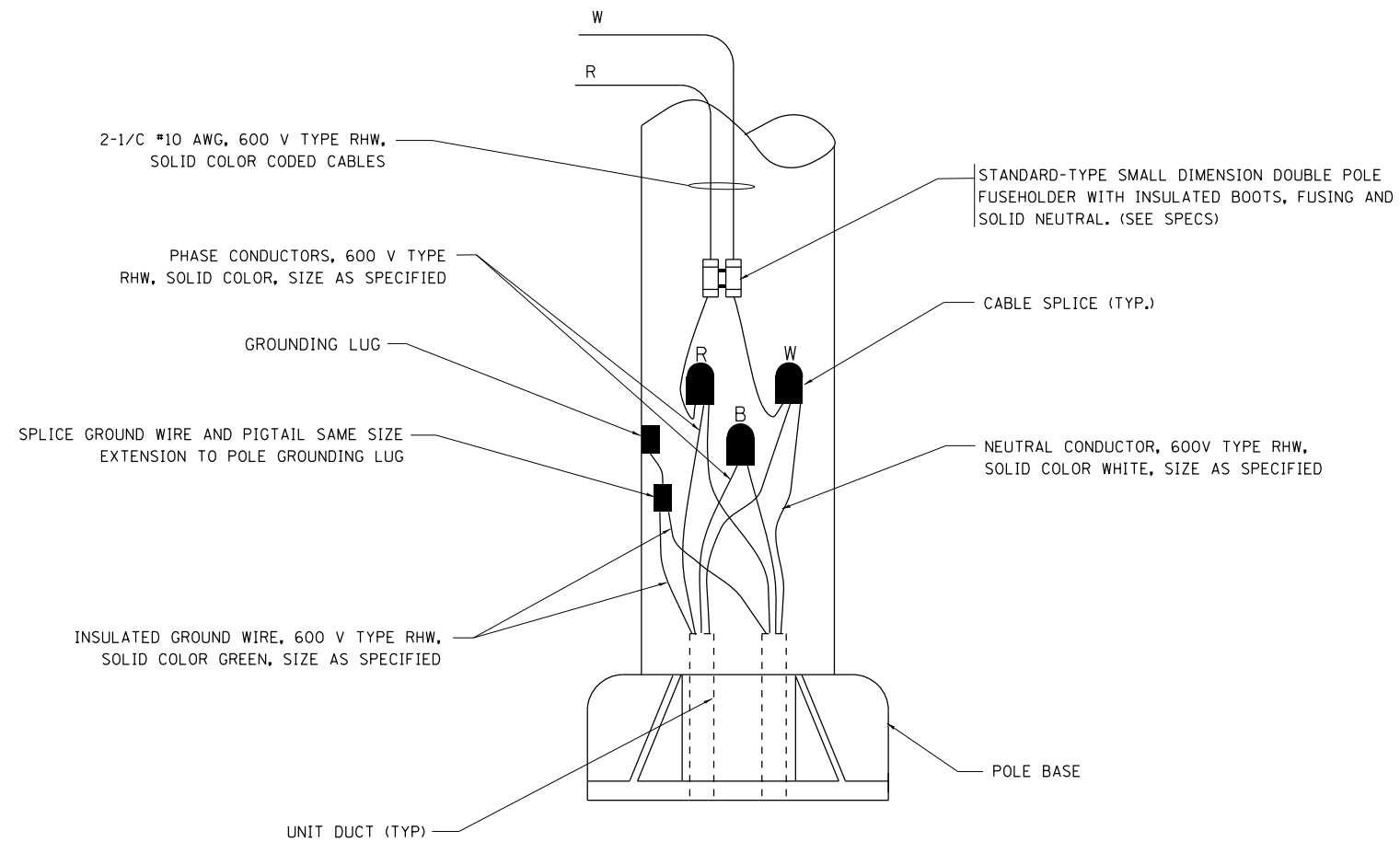
1. ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN.
2. CONTRACTOR SHALL ADJUST THE WIRE CLIP TO ELIMINATE ANY SLACK FROM THE WIRE ROPE.
3. THE 0.125" (3.18) STAINLESS STEEL AIRCRAFT CABLE SHALL REMAIN VISIBLE FROM THE GROUND LEVEL.
4. THE BREAKING STRENGTH OF THE CABLE SHALL BE 1700 LBS. MIN.

FILE NAME =	USER NAME = bartonw	DESIGNED -	REVISED - 08-08-03	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>LUMINAIRE SAFETY CABLE ASSEMBLY</b>			F.A.U. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
p:\11\084EBIDINTEG.illinois.gov\PWIDOT\Documents\IDOT Offices\District 1\Projects\1439\Drawings\Design\DistStd.dgn		CHECKED -	REVISED -					3512	87-Y-N	COOK	102	85
PLOT SCALE = 100.0000' / 1in.		DATE -	REVISED -		<b>BE-701</b>			<b>CONTRACT NO. 60J39</b>				
PLOT DATE = 11/3/2016					SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.		FED. ROAD DIST. NO. 1   ILLINOIS FED. AID PROJECT		



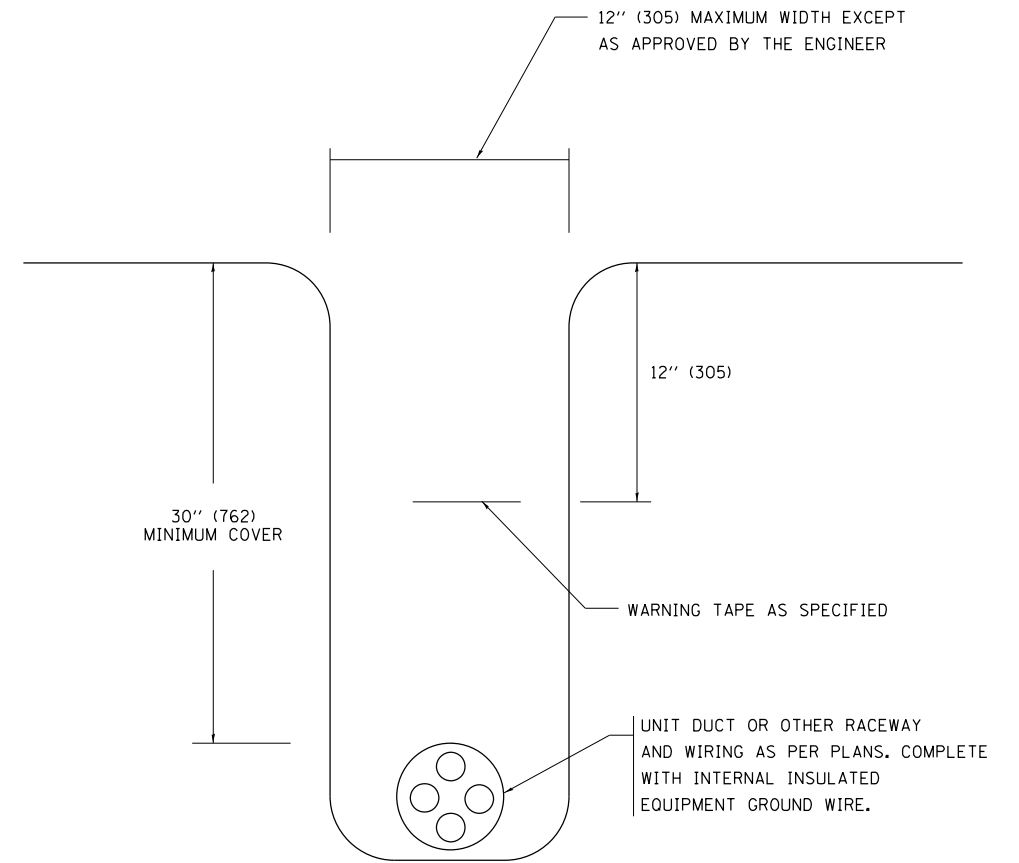
**TYPICAL SPLICE DETAIL**

N.T.S.



**POLE WIRING DETAIL**

N.T.S.

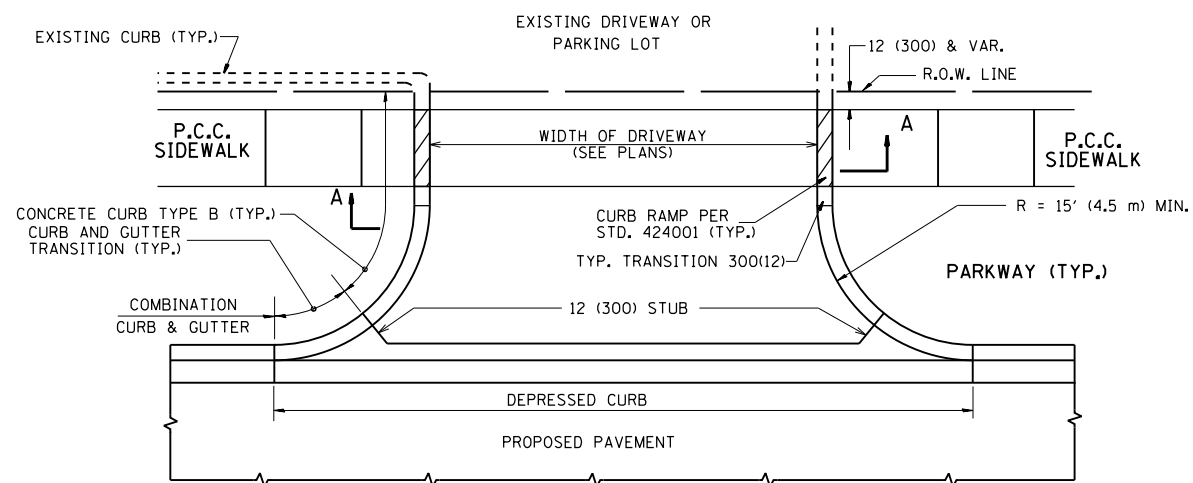


**TYPICAL WIRING IN TRENCH DETAIL**

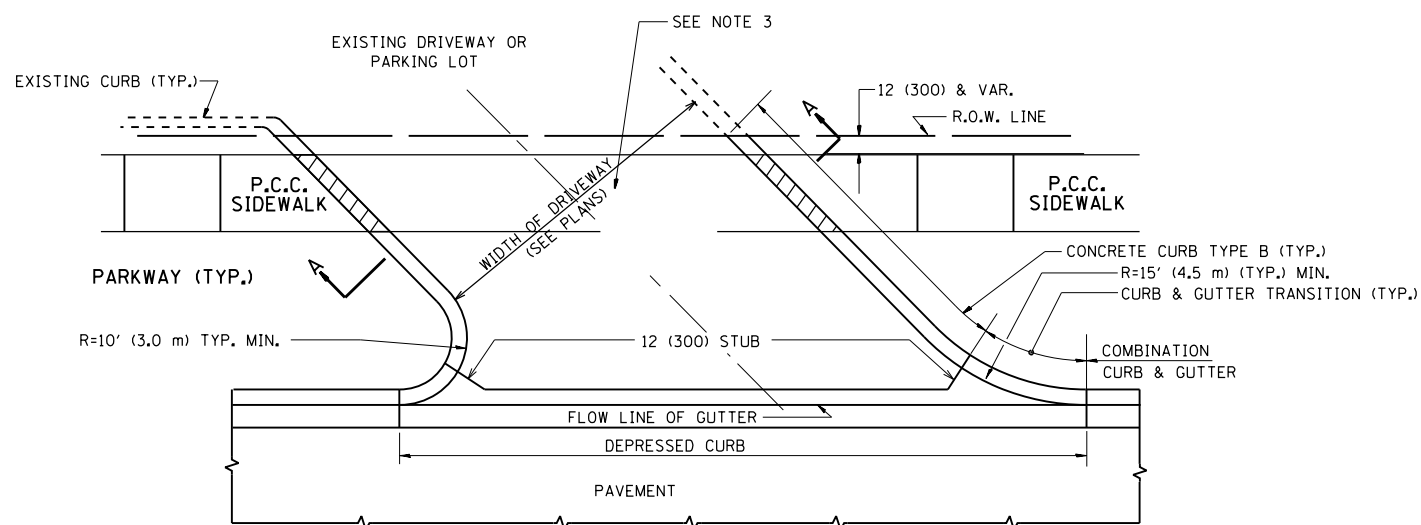
N.T.S.

FILE NAME =	USER NAME = bartonrw	DESIGNED -	REVISED - 08-08-03	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>MISC. ELECTRICAL DETAILS SHEET A</b>			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
p:\11\084EBIDINTEG.illinois.gov\PIWIDOT\Documents\DOT Offices\District 1\Projects\P1439\Drawings\Design\DistStd.dgn		CHECKED -	REVISED -		3512	87-Y-N	COOK	102	86			
PLOT SCALE = 100.0000' / 1in.		DATE -	REVISED -		<b>BE-702</b>			<b>CONTRACT NO. 60J39</b>				
PLOT DATE = 11/3/2016					FED. ROAD DIST. NO. 1   ILLINOIS FED. AID PROJECT							
				SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.					

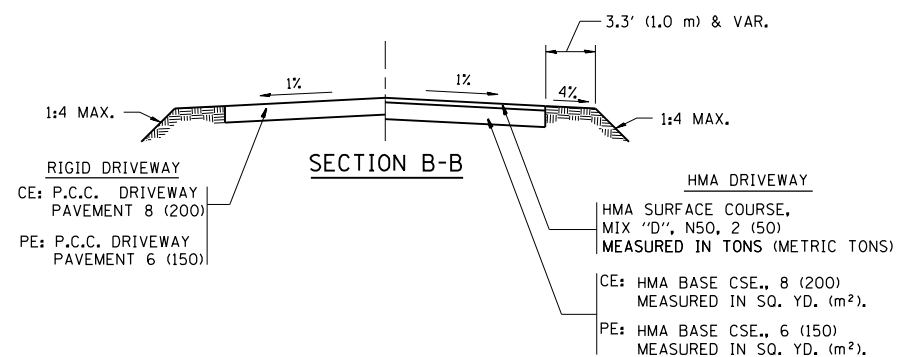
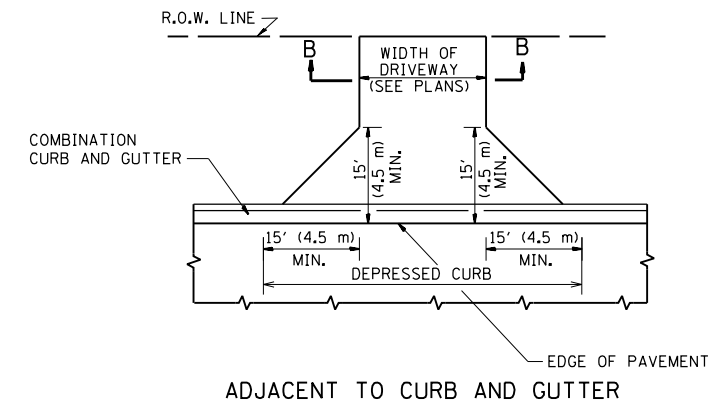
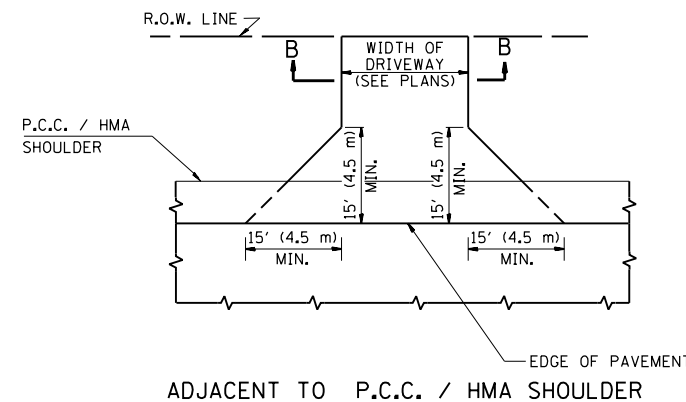
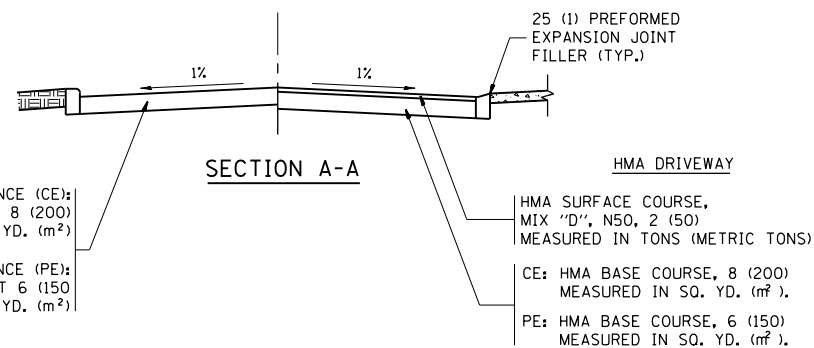




WITH CONCRETE CURB, TYPE B



WITH CONCRETE CURB, TYPE B



RURAL FIELD ENTRANCE (FE)  
HMA SURFACE COURSE,  
MIX "D", N50, 2 (50)  
MEASURED IN TONS (METRIC TONS)  
AGGREGATE BASE CSE., TYPE B, 8 (200)  
MEASURED IN SQ. YD. (m²).

**GENERAL NOTES:**

DRIVEWAY SLOPES, LOCATIONS, & GEOMETRIC LAYOUT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "HANDBOOK FOR POLICY ON PERMITS FOR ACCESS DRIVEWAYS TO STATE HIGHWAYS". FOR FURTHER LAYOUT REQUIREMENTS, REFER TO ILLUSTRATIONS IN THE PERMIT HANDBOOK. DRIVEWAYS SHALL BE REPLACED IN KIND, UNLESS OTHERWISE NOTED ON THE PLANS.

COMMERCIAL DRIVEWAYS SHALL BE CONSTRUCTED WITH CONCRETE CURB, TYPE B RETURNS EXCEPT WHEN THE SIDEWALK EDGE IS 4 FEET (1.2 METERS) OR LESS FROM THE BACK OF CURB, CONSTRUCT A FLARE DRIVEWAY WITHOUT CURB.

THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC PERMIT OFFICE AT 847/ 705-4131 FOR ANY QUESTIONS ON DRIVEWAYS SHOWN IN THE PLANS; SPECIFICALLY IN REFERENCE TO ADDITIONAL AND/OR RELOCATION/REMOVAL OF A DRIVEWAY.

COMBINATION CONCRETE CURB & GUTTER SHALL BE MEASURED STRAIGHT ACROSS THE DRIVEWAY. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THE CURB & GUTTER TRANSITION.

1 (25) PREFORMED EXPANSION JOINT FILLER WILL NOT BE PAID SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE P.C.C. DRIVEWAY PAVEMENT OR P.C.C. SIDEWALK.

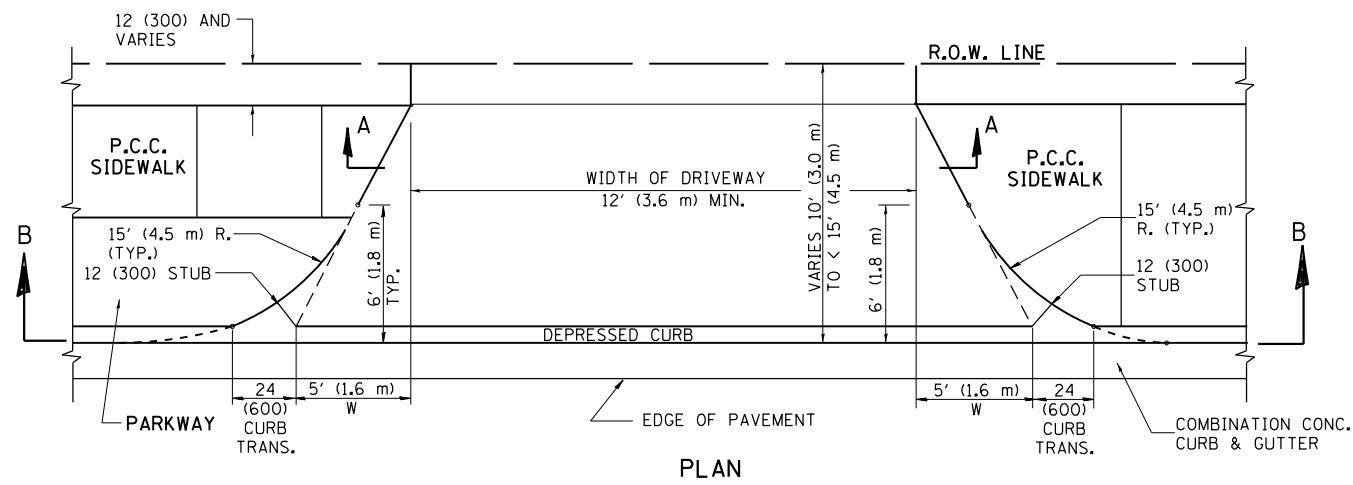
WHEN THE P.C.C. SIDEWALK EXTENDS THROUGH THE DRIVEWAY, THE THICKNESS OF THE SIDEWALK IN THE DRIVEWAY AREA SHALL BE THE SAME AS THE DRIVEWAY THICKNESS. SIDEWALK WILL BE PAID FOR AS P.C.C. SIDEWALK OF THE THICKNESS SPECIFIED. SIDEWALK CROSS SLOPE THRU DRIVEWAY AREA TO BE A MAXIMUM OF 1:50.

FILE NAME =	USER NAME = bartonw	DESIGNED - R. SHAH	REVISED - P. LaFLUER 04-15-03
pw\11084EBIDINTEG.illinois.gov\PIWIDOT\Documents\DOT Offices\District 1\Projects\PI4390\Drawings\Design\DistStd.dgn		CHECKED -	REVISED - R. BORO 01-01-07
PLOT SCALE = 100.0002' / in.		DATE - 11-04-95	REVISED - R. BORO 06-11-08
PLOT DATE = 11/3/2016			REVISED - R. BORO 09-06-11

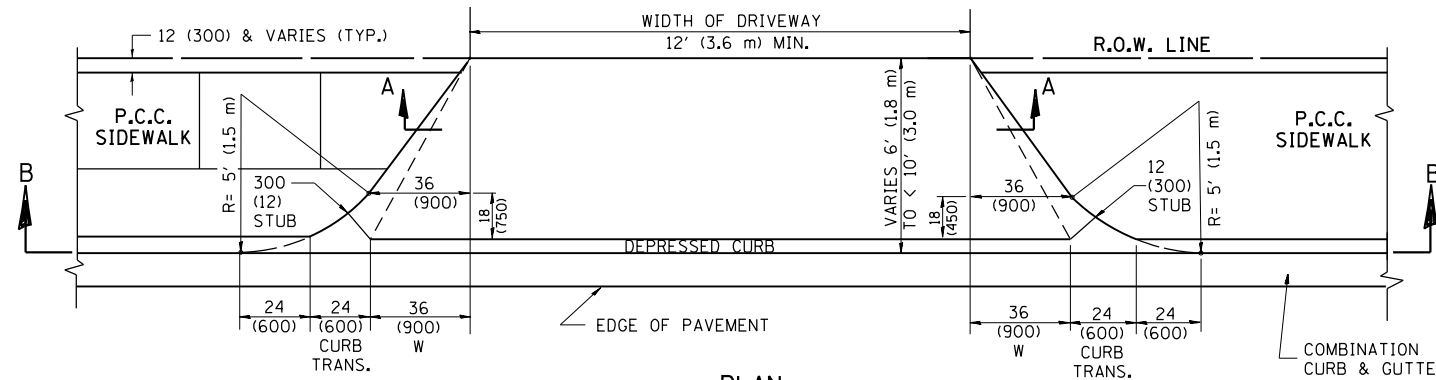
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W. AND FACE OF CURB &amp; EDGE OF SHOULDER &gt;= 15' (4.5 m)</b>			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

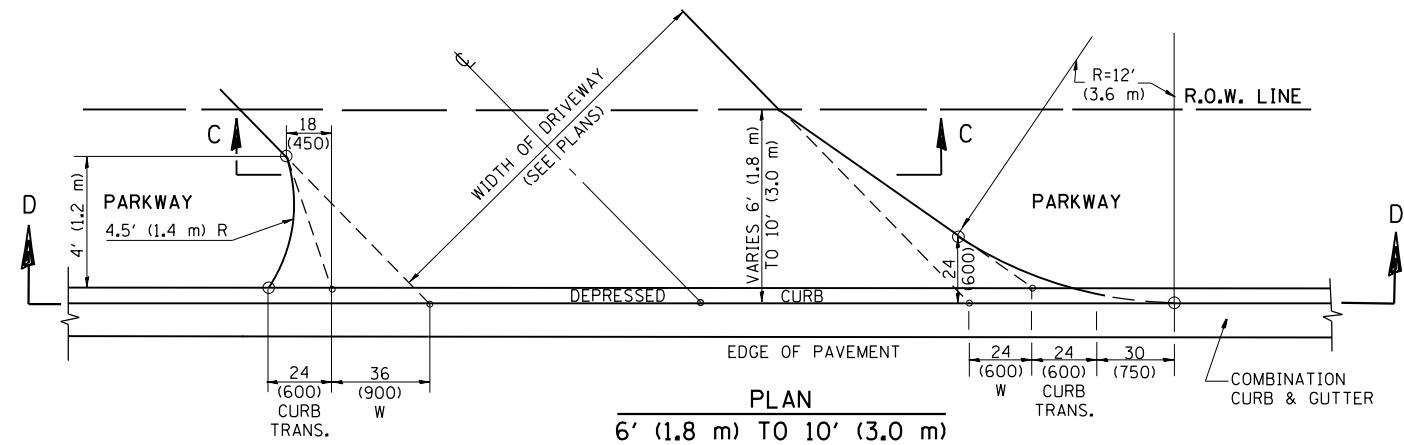
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	87-Y-N	COOK	102	87
<b>BD0156-07 (BD-01)</b>		<b>CONTRACT NO. 60J39</b>		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



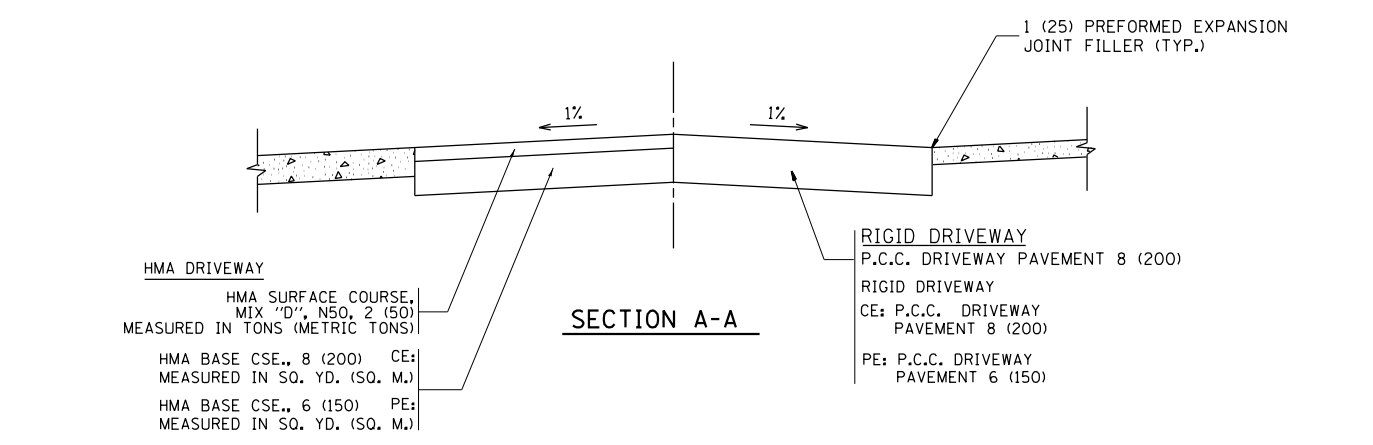
PLAN  
10' (3.0 m) TO < 15' (4.5 m)



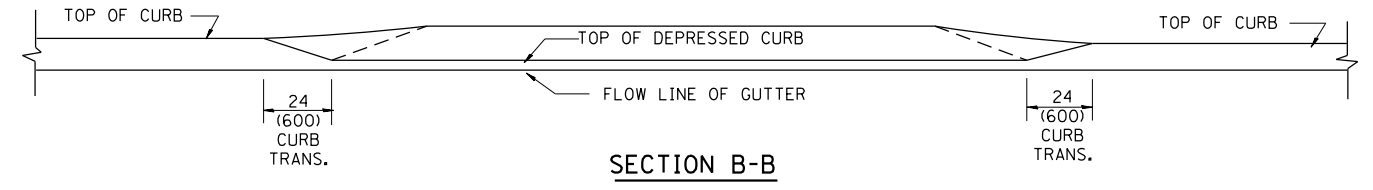
PLAN  
6' (1.8 m) TO < 10' (3.0 m)



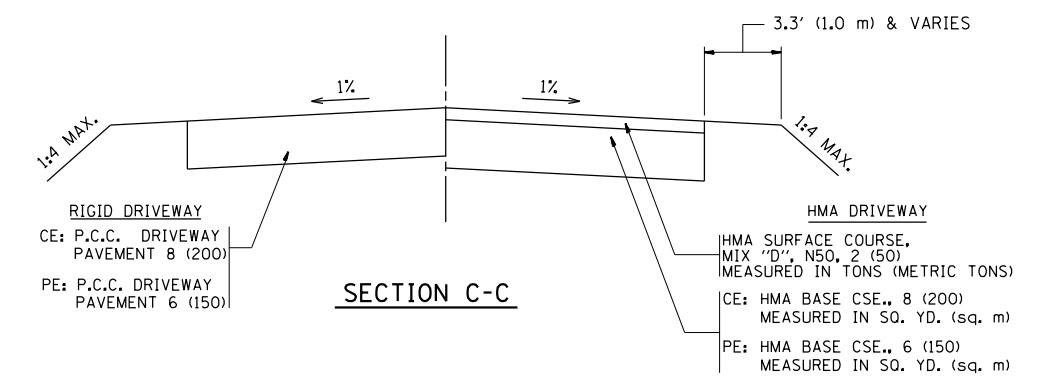
PLAN  
6' (1.8 m) TO 10' (3.0 m)



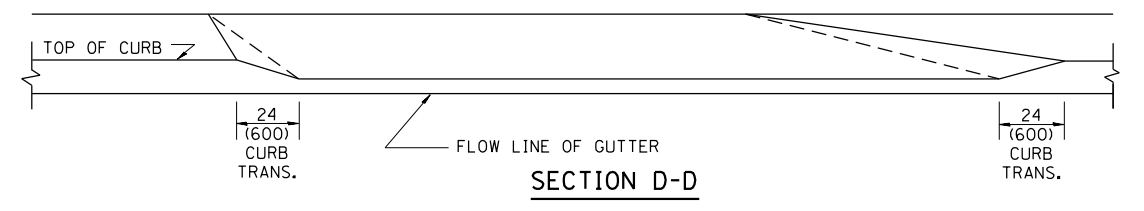
SECTION A-A



SECTION B-B



SECTION C-C



SECTION D-D

GENERAL NOTES

DRIVEWAY SLOPES, LOCATIONS, & GEOMETRIC LAYOUT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "HANDBOOK FOR POLICY ON PERMITS FOR ACCESS DRIVEWAYS TO STATE HIGHWAYS". FOR FURTHER LAYOUT REQUIREMENTS, REFER TO ILLUSTRATION 10 IN THE PERMIT HANDBOOK. WHERE SIDEWALKS EXIST, DRIVEWAYS SHALL BE REPLACED WITH RIGID PAVEMENT. WHERE NO SIDEWALKS EXIST, DRIVEWAYS SHALL BE REPLACED IN KIND. SIDEWALK CROSS SLOPE THRU DRIVEWAY AREA TO BE A MAXIMUM OF 1:50.

WHEN THE DISTANCE BETWEEN R.O.W. AND THE BACK OF CURB IS EQUAL TO OR LESS THAN 8' (2.4 m), THE P.C.C. SIDEWALK SHALL EXTEND TO THE BACK OF CURB.

THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC PERMIT OFFICE AT 847/ 705-4131 FOR ANY QUESTIONS ON DRIVEWAYS SHOWN IN THE PLANS; SPECIFICALLY IN REFERENCE TO ADDITIONAL AND/OR RELOCATION/REMOVAL OF A DRIVEWAY.

COMBINATION CONCRETE CURB & GUTTER SHALL BE MEASURED STRAIGHT ACROSS THE DRIVEWAY. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THE CURB & GUTTER TRANSITION.

THE 1 (25) PREFORMED EXPANSION JOINT FILLER WILL NOT BE PAID SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE P.C.C. DRIVEWAY PAVEMENT OR P.C.C. SIDEWALK.

"W" VARIES FROM 36 (900) TO 5' (1.5 m) PROPORTIONAL TO THE LENGTH (L), FROM 6' (1.8 m) TO 10' (3 m).

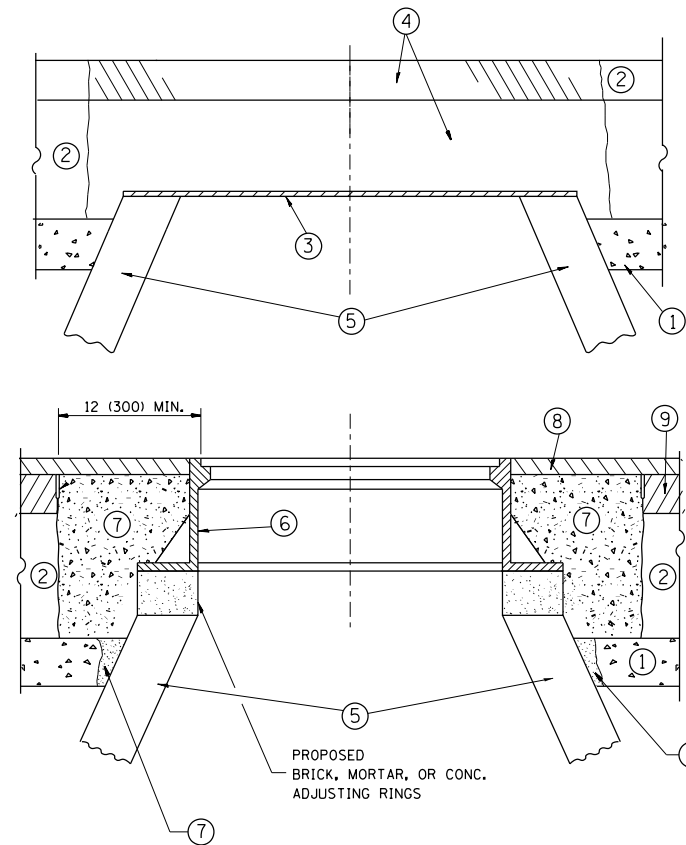
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE NOTED.

FILE NAME =	USER NAME = bartonrw	DESIGNED - R. SHAH	REVISED - M. GOMEZ 04-06-01
pw\11084EBIDINTEG.illinois.gov\PIWIDOT\Documents\IDOT Offices\District 1\Projects\PI4390\Drawings\Design\DistStd.dgn		CHECKED -	REVISED - P. LaFLEUR 04-15-03
PLOT SCALE = 100.0002' / 1"		DATE - 11-06-95	REVISED - R. BORO 01-01-07
PLOT DATE = 11/3/2016			REVISED - R. BORO 01-01-07

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DRIVEWAY DETAILS			
DISTANCE BETWEEN ROW AND FACE OF CURB < 15' (4.5 m)			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	87-Y-N	COOK	102	88
BD400-02 (BD-02)			CONTRACT NO. 60J39	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



**CONSTRUCTION PROCEDURES**

**STAGE 1 (BEFORE PAVEMENT MILLING)**

- A) REMOVE A MINIMUM OF 12 (300) OF THE PAVEMENT FROM AROUND THE STRUCTURE.
- B) REMOVE THE EXISTING FRAME AND LID FROM THE STRUCTURE.
- C) COVER THE STRUCTURE OPENING WITH A 36 (900) DIAMETER METAL PLATE.
- D) BACKFILL WITH CRUSHED STONE AND A MINIMUM 1/2 (40) THICK HMA SURFACE MIX APPROVED BY THE ENGINEER.

**STAGE 2 (AFTER PAVEMENT MILLING)**

- A) REMOVE THE HMA SURFACE MIX AND CRUSHED STONE.
- B) INSTALL THE FRAME AND LID; ADJUST THE FRAME TO ITS FINAL SURFACE ELEVATION.
- C) THE SURROUNDING SPACE SHALL BE FILLED WITH CLASS PP-1\* CONCRETE TO THE ELEVATION OF THE SURFACE OF THE EXISTING BASE COURSE OR THE BINDER COURSE.

\* UNLESS OTHERWISE SPECIFIED IN THE PLANS.

THE PROCEDURE EXPLAINED ABOVE SHALL CONFORM TO THE APPLICABLE PORTIONS OF SECTIONS 353, 406, 602, AND 603 OF THE STANDARD SPECIFICATIONS EXCEPT THAT "THE CONTRACTOR SHALL ADJUST THE STRUCTURES TO THE FINISHED PAVEMENT ELEVATION NO MORE THAN 5 CALENDAR DAYS PRIOR TO PLACEMENT OF THE FINAL LIFT OF SURFACE UNLESS APPROVED BY THE ENGINEER."

**LEGEND**

- ① SUB-BASE GRANULAR MATERIAL
- ② EXISTING PAVEMENT
- ③ 36 (900) DIAMETER METAL PLATE
- ④ PROPOSED CRUSHED STONE AND HMA SURFACE MIX
- ⑤ EXISTING STRUCTURE
- ⑥ FRAME AND LID (SEE NOTES)
- ⑦ CLASS PP-1\* CONCRETE
- ⑧ PROPOSED HMA SURFACE COURSE
- ⑨ PROPOSED HMA BINDER COURSE

**LOCATION OF STRUCTURES:**

THE CONTRACTOR WILL BE REQUIRED TO KEEP A RECORD OF THE LOCATIONS OF THE BURIED STRUCTURES ACCORDING TO THE STATION AND DISTANCE LEFT OR RIGHT OF THE CENTERLINE OF PAVEMENT. UPON COMPLETION OF THE WORK, THE CONTRACTOR WILL DELIVER THE RECORD TO THE ENGINEER.

**BASIS OF PAYMENT:**

REMOVING FRAMES AND LIDS ON DRAINAGE AND UTILITY STRUCTURES IN THE PAVEMENT PRIOR TO MILLING, AND ADJUSTING TO FINAL GRADE PRIOR TO PLACING THE SURFACE COURSE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR "FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)."

THIS WORK WILL NOT BE PAID FOR WHEN DRAINAGE AND UTILITY STRUCTURES ARE SPECIFIED FOR PAYMENT AS STRUCTURE RECONSTRUCTION.

NEW FRAMES AND LIDS, WHEN SPECIFIED, WILL BE PAID FOR SEPARATELY.

**NOTES:**

EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.

IF THE EXISTING LIDS ARE OPEN, THE FRAME WILL BE ADJUSTED TO THE ELEVATION OF THE MILLED PAVEMENT SURFACE PRIOR TO THE MILLING OPERATION. THE FRAME WILL NOT BE REMOVED AND COVERED BY THE METAL PLATE.

CITY OF CHICAGO CASTINGS ARE THE PROPERTY OF THE CITY AND THE CONTRACTOR SHALL NOTIFY THE CITY FOR REMOVAL AND DISPOSITION OF THE CASTINGS.

THE METAL PLATE USED TO COVER THE STRUCTURE SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.

WHEN STRUCTURES ARE TO BE ADJUSTED OR RECONSTRUCTED, THE LOWERING AND RAISING OF THE FRAMES AND LIDS WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF THE CORRESPONDING PAY ITEM.

**DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING**

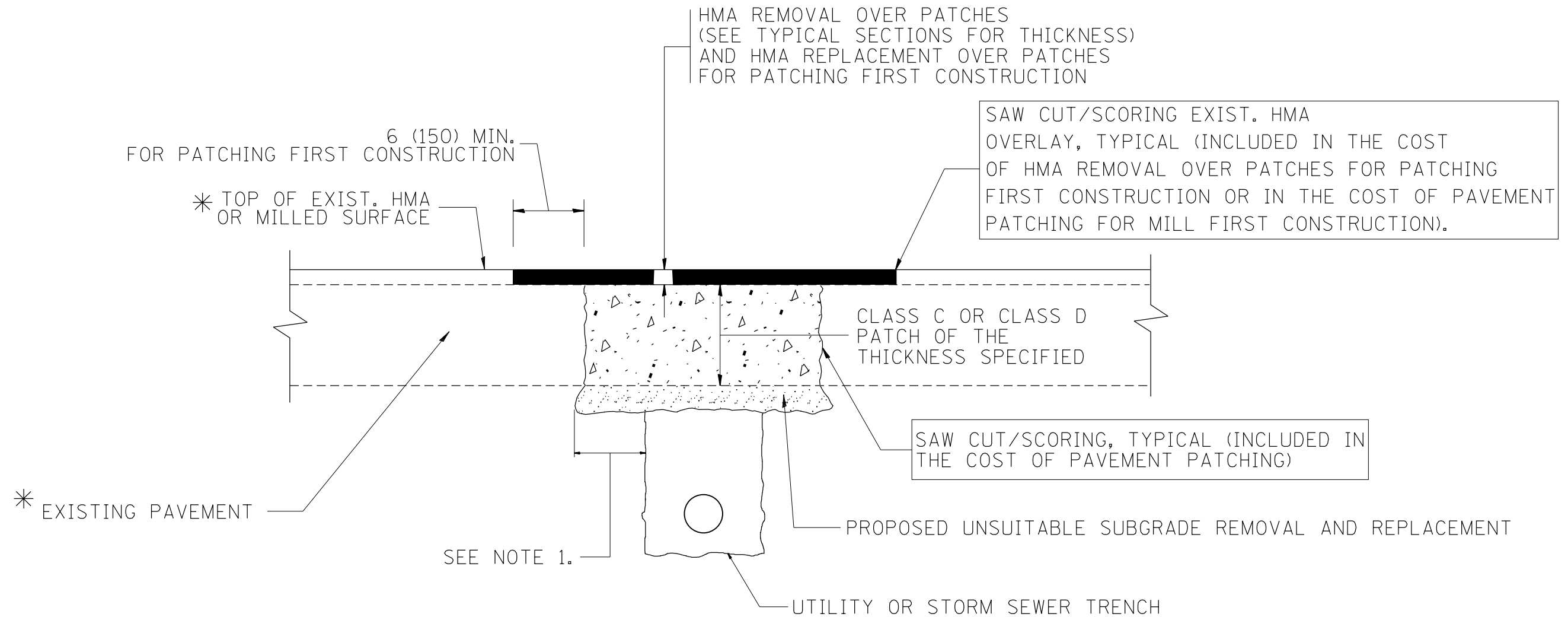
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

FILE NAME =	USER NAME = bartonw	DESIGNED - R. SHAH	REVISED - R. WIEDEMAN 05-14-04
pw\11084EBIDINTEG\illinois.gov\PIWIDOT\Documents\IDOT Offices\District 1\Projects\14390\Drawings\Design\DistStd.dgn			REVISED - R. BORO 01-01-07
	PLOT SCALE = 100.0000' / 1in.	CHECKED -	REVISED - R. BORO 03-09-11
	PLOT DATE = 11/3/2016	DATE - 10-25-94	REVISED - R. BORO 12-06-11

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING</b>			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	87-Y-N	COOK	102	89
<b>BD600-03 (BD-8)</b>		<b>CONTRACT NO. 60J39</b>		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



\* SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

**NOTES:**

1. THE WIDTH OF THE FULL DEPTH PATCH OVER A TRENCH SHALL BE 12 (300) WIDER ON EACH SIDE OF THE TRENCH.
2. FOR METHOD OF MEASUREMENT AND BASIS OF PAYMENT, SEE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL".

SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

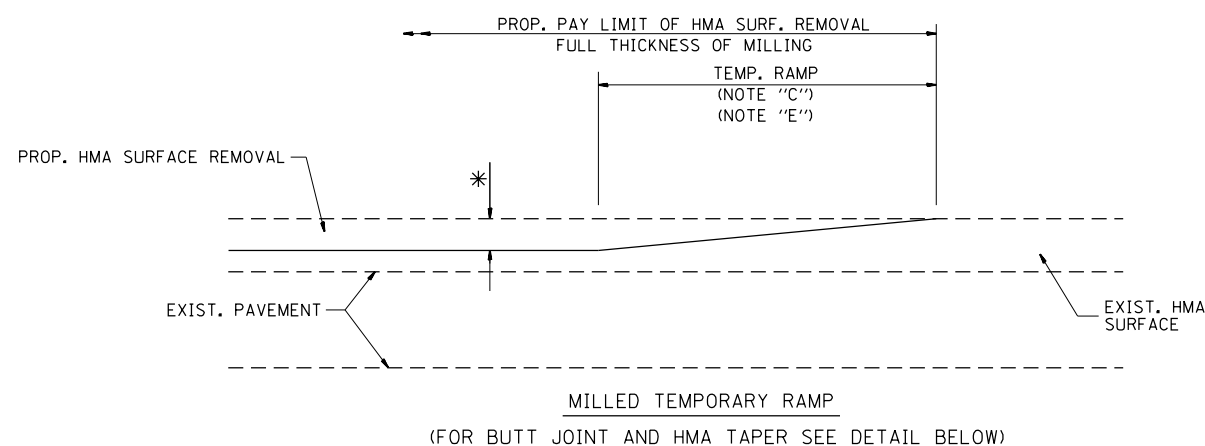
1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
2. REMOVE AND REPLACE WITH CLASS C OR D PATCH.
3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

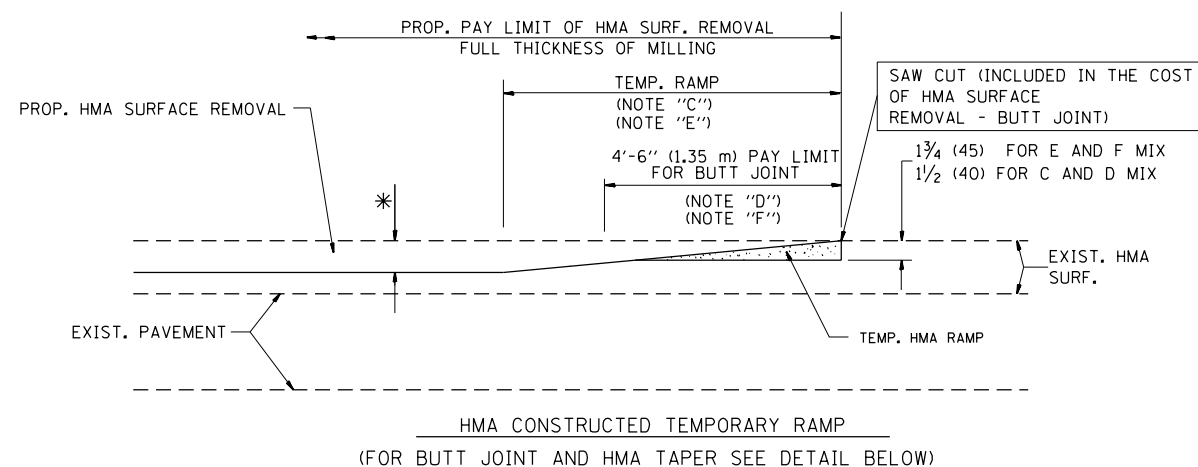
1. MILL HMA FIRST IF THERE IS AT LEAST 4 1/2 INCHES OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING PAVEMENT OR IF THE PAVEMENT IS FULL DEPTH HMA. A MINIMUM OF 2 INCHES OF HMA MATERIAL SHALL BE IN PLACE AFTER MILLING.
2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME =	USER NAME = bartonw	DESIGNED - R. SHAH	REVISED - A. ABBAS 04-27-98	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT</b>			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw\ill084EBIDINTEG.illinois.gov\PIWIDOT\Documents\IDOT Offices\District 1\Projects\P14390\Drawings\Design\DistStd.dgn	PLOT SCALE = 100.0000' / 1in.	CHECKED -	REVISED - R. BORO 01-01-07					3512	87-Y-N	COOK	102	90
	PLOT DATE = 11/3/2016	DATE - 10-25-94	REVISED - R. BORO 09-04-07		BD400-04 (BD-22)			CONTRACT NO. 60J39				
			REVISED - K. ENG 10-27-08		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			

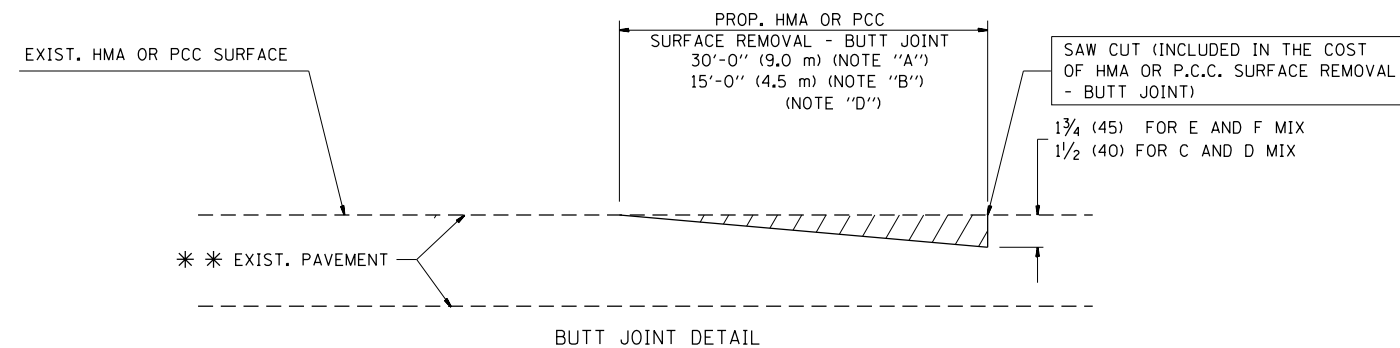


**OPTION 1**

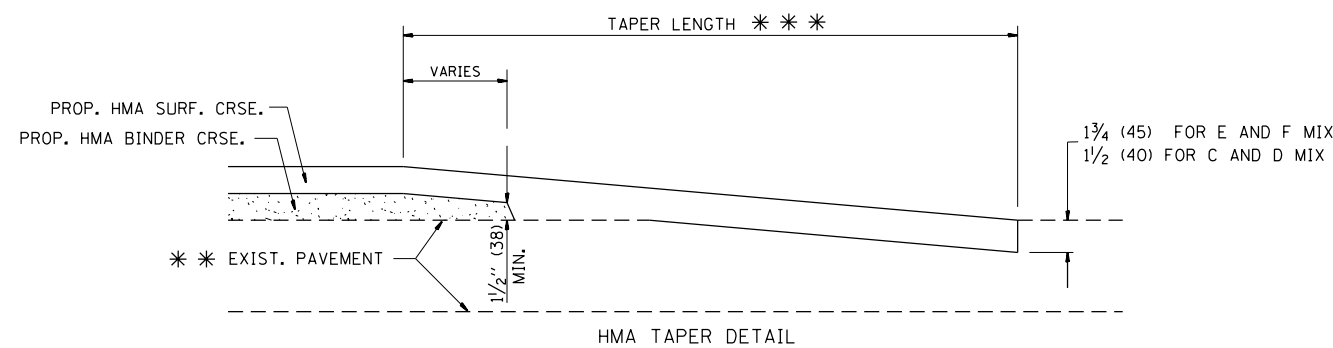


**OPTION 2**

**TYPICAL TEMPORARY RAMP**



**BUTT JOINT DETAIL**



**HMA TAPER DETAIL**

**TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY**

\*\*\* PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

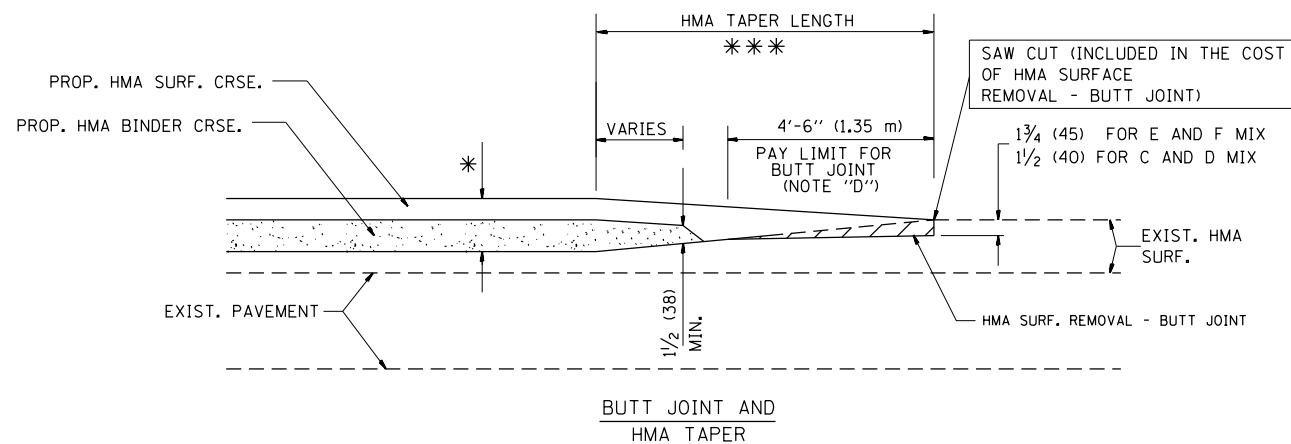
**NOTES**

- A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.
  - B: MINOR SIDE ROADS.
  - C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
  - D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
  - E: TAPER THE TEMP. RAMP AT A RATE OF 3'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.
  - F: INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL - BUTT JOINT
  - G: SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
- \* SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- \*\*\* 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")  
10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

**BASIS OF PAYMENT:**

THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT".

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.



**TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING**

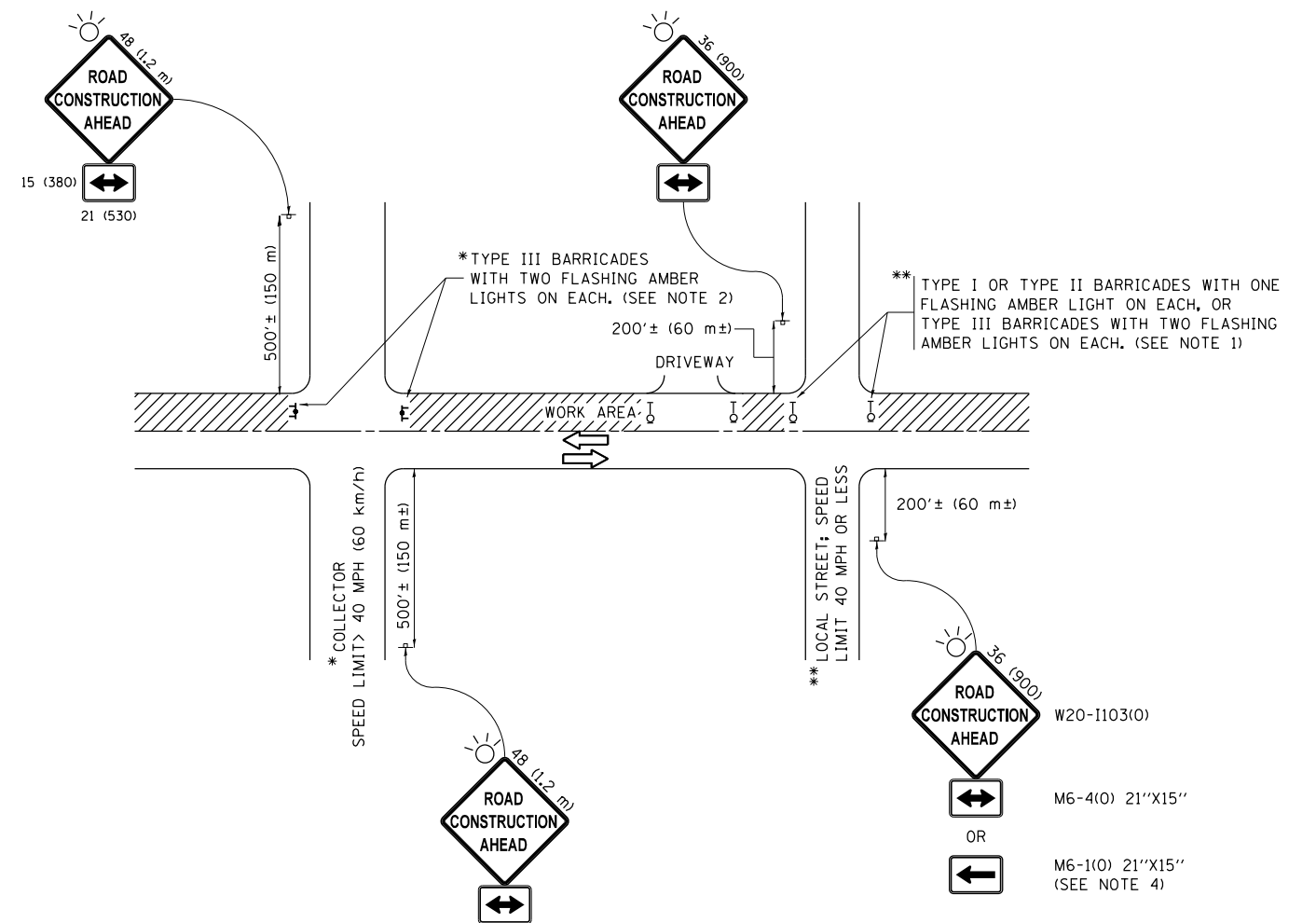
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	PLOT SCALE = 100.0000' / 1in.	CHECKED -	REVISED - M. GOMEZ 04-06-01
	PLOT DATE = 11/3/2016	DATE - 06-13-90	REVISED - R. BORO 01-01-07

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**BUTT JOINT AND  
HMA TAPER DETAILS**

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	87-Y-N	COOK	102	91
BD400-05 BD32		CONTRACT NO. 60J39		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



**NOTES:**

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
  - a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
  - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
  - a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
  - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
3. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
4. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
5. WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
6. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
7. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

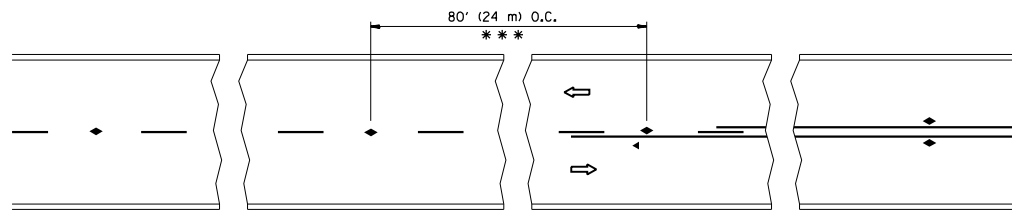
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pw:\IL\084EBIDINTEG\illinois.gov\PWIDOT\Documents\IDOT Offices\District 1\Projects\P14390\Drawings\Design\DistStd.dgn			REVISED - T. RAMMACHER 01-06-00
Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED - A. SCHUETZE 07-01-13
	PLOT DATE = 11/3/2016	DATE - 06-89	REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

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

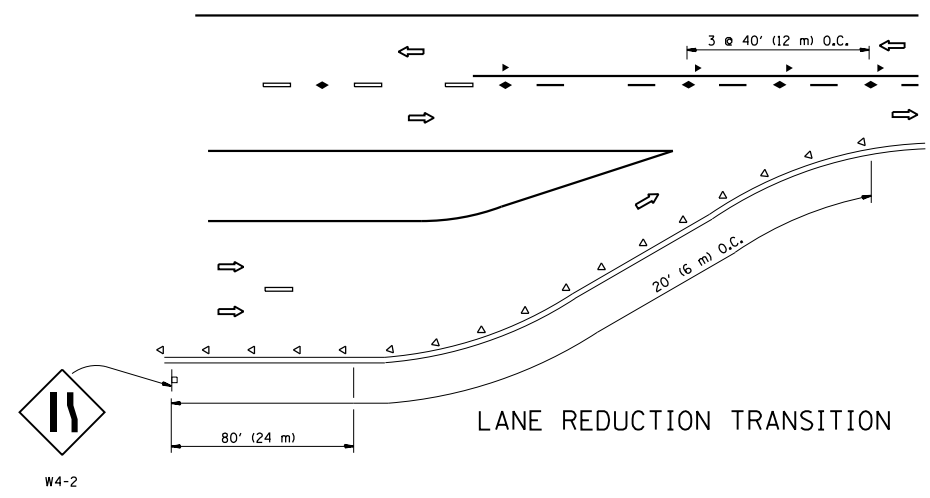
SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	87-Y-N	COOK	102	92
<b>TC-10</b>			<b>CONTRACT NO. 60J39</b>	
ILLINOIS FED. AID PROJECT				

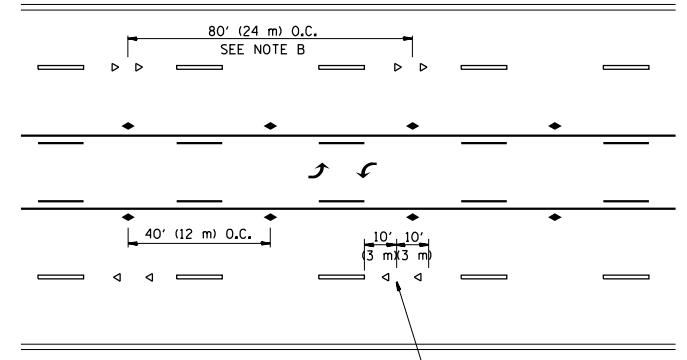


\*\*\* REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

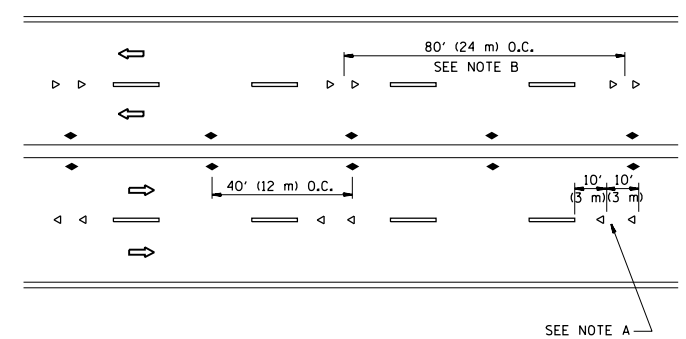
TWO-LANE/TWO-WAY



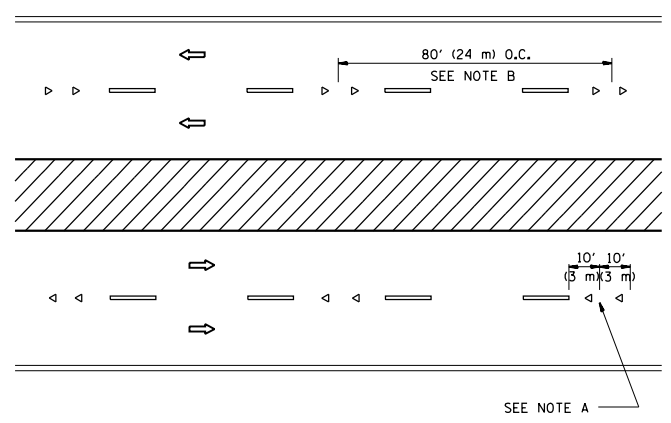
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.

SYMBOLS

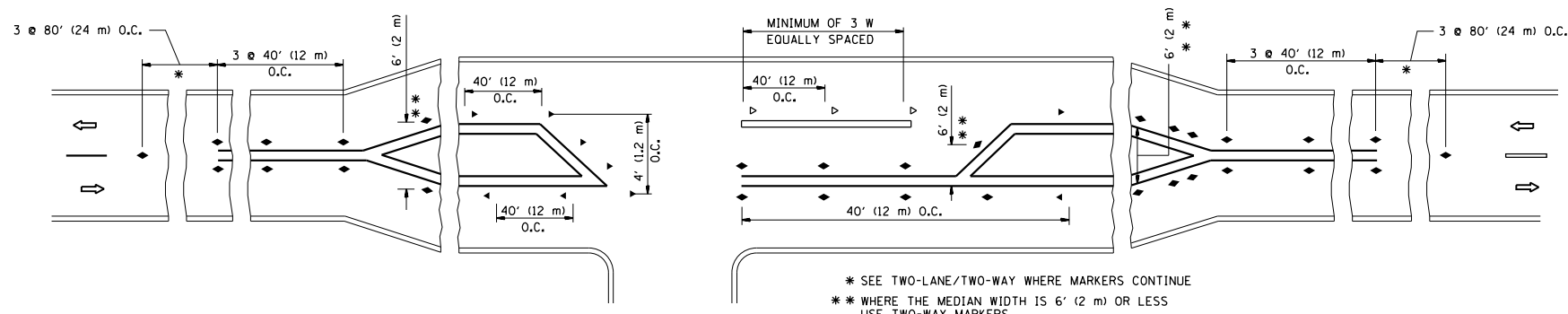
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

LANE MARKER NOTES

- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.
- B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H (20 km/h) LOWER THAN POSTED SPEEDS.

DESIGN NOTES

1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHALL BE INCLUDED IN THE PLANS WHEN STANDARD SPECIFICATIONS ARE NOT BEING USED.
4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.



LEFT TURN

\* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE  
 \*\* WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS USE TWO-WAY MARKERS.

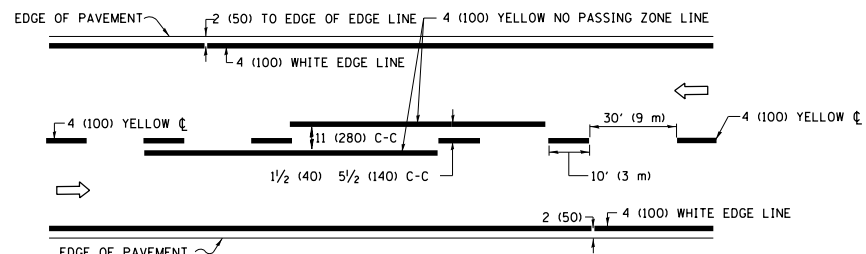
All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME =	USER NAME = bartonrw	DESIGNED -	REVISED - T. RAMMACHER 09-19-94
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		DATE -	REVISED - T. RAMMACHER 01-06-00
			REVISED - C. JUCIUS 09-09-09

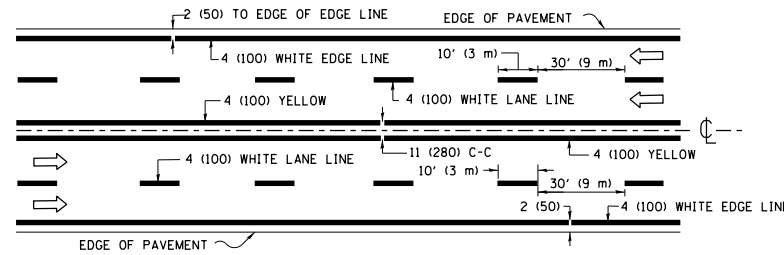
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

TYPICAL APPLICATIONS			
RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

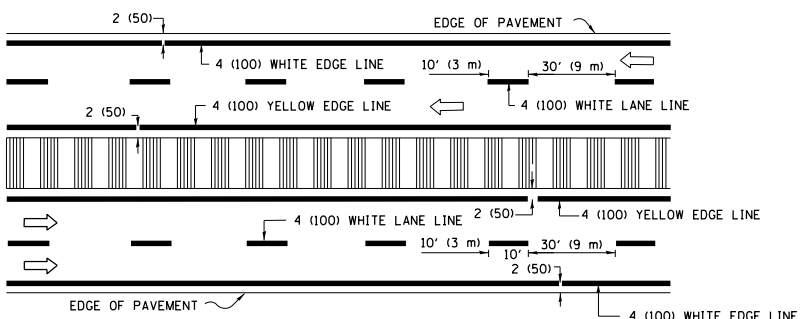
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	87-Y-N	COOK	102	93
TC-11			CONTRACT NO. 60J39	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



**2-LANE ROADWAY**

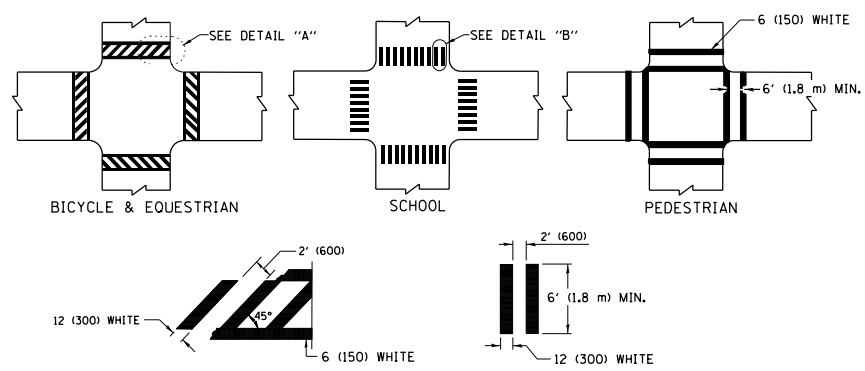


**MULTI-LANE UNDIVIDED**



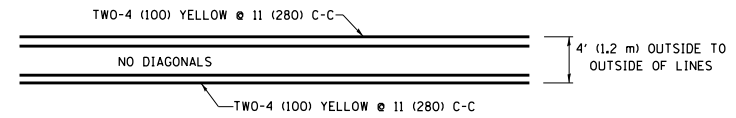
**MULTI-LANE DIVIDED WITH MEDIAN**

**TYPICAL LANE AND EDGE LINE MARKING**

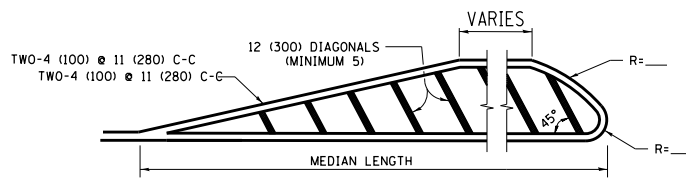


**TYPICAL CROSSWALK MARKING**

\* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES

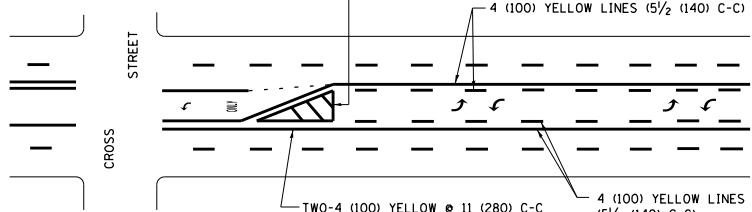


**4' (1.2 m) WIDE MEDIANS ONLY**



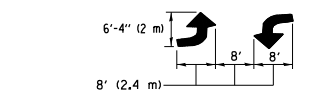
**MEDIANS OVER 4' (1.2 m) WIDE**

DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))  
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)  
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))



**MEDIAN WITH TWO-WAY LEFT TURN LANE TYPICAL PAINTED MEDIAN MARKING**

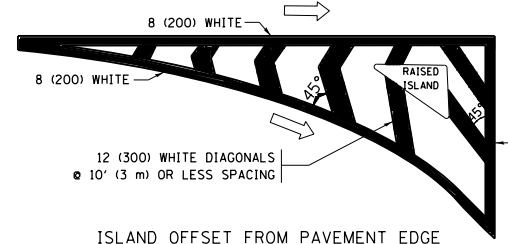
A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



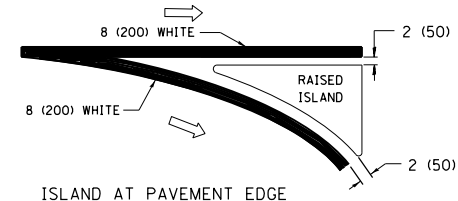
**TYPICAL LEFT (OR RIGHT) TURN LANE**

**TYPICAL TURN LANE MARKING**

FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.  
AREA = 15.6 SQ. FT. (1.5 m<sup>2</sup>) ONLY AREA = 20.8 SQ. FT. (1.9 m<sup>2</sup>)  
\* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

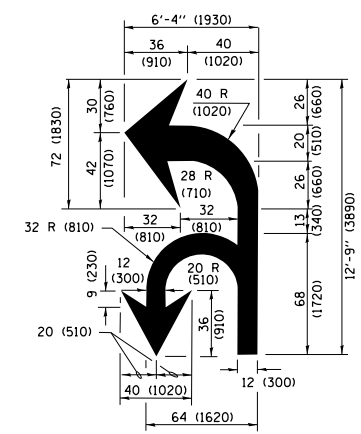


**ISLAND OFFSET FROM PAVEMENT EDGE**

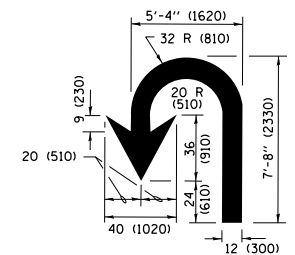


**ISLAND AT PAVEMENT EDGE**

**TYPICAL ISLAND MARKING**



**COMBINATION LEFT AND U-TURN**



**U-TURN**

**LANE REDUCTION TRANSITION**

\* LANE REDUCTION ARROWS REQUIRED AT SPEEDS OF 45 MPH OR GREATER OR WHEN SPECIFIED IN PLANS.

D(FT)	SPEED LIMIT
345	30
425	35
500	40
580	45
665	50
750	55

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING /REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT, OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW; TWO WAY TRAFFIC WHITE; ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m <sup>2</sup> ) EACH "X"=54.0 SQ. FT. (5.0 m <sup>2</sup> )
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS ≥ 8')	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

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

FILE NAME =	USER NAME = bartonrw	DESIGNED - EVERS	REVISED - C. JUCIUS 09-09-09
pw\1\084EBIDINTEG\illinois.gov\PIWIDOT\Documents\DOT Offices\District 1\Projects\P1430\Drawings\Design\DistStd.dgn		CHECKED -	REVISED - C. JUCIUS 07-01-13
Default	PLOT SCALE = 100.0000' / in.	DATE - 03-19-90	REVISED - C. JUCIUS 12-21-15
	PLOT DATE = 11/3/2016		REVISED - C. JUCIUS 04-12-16

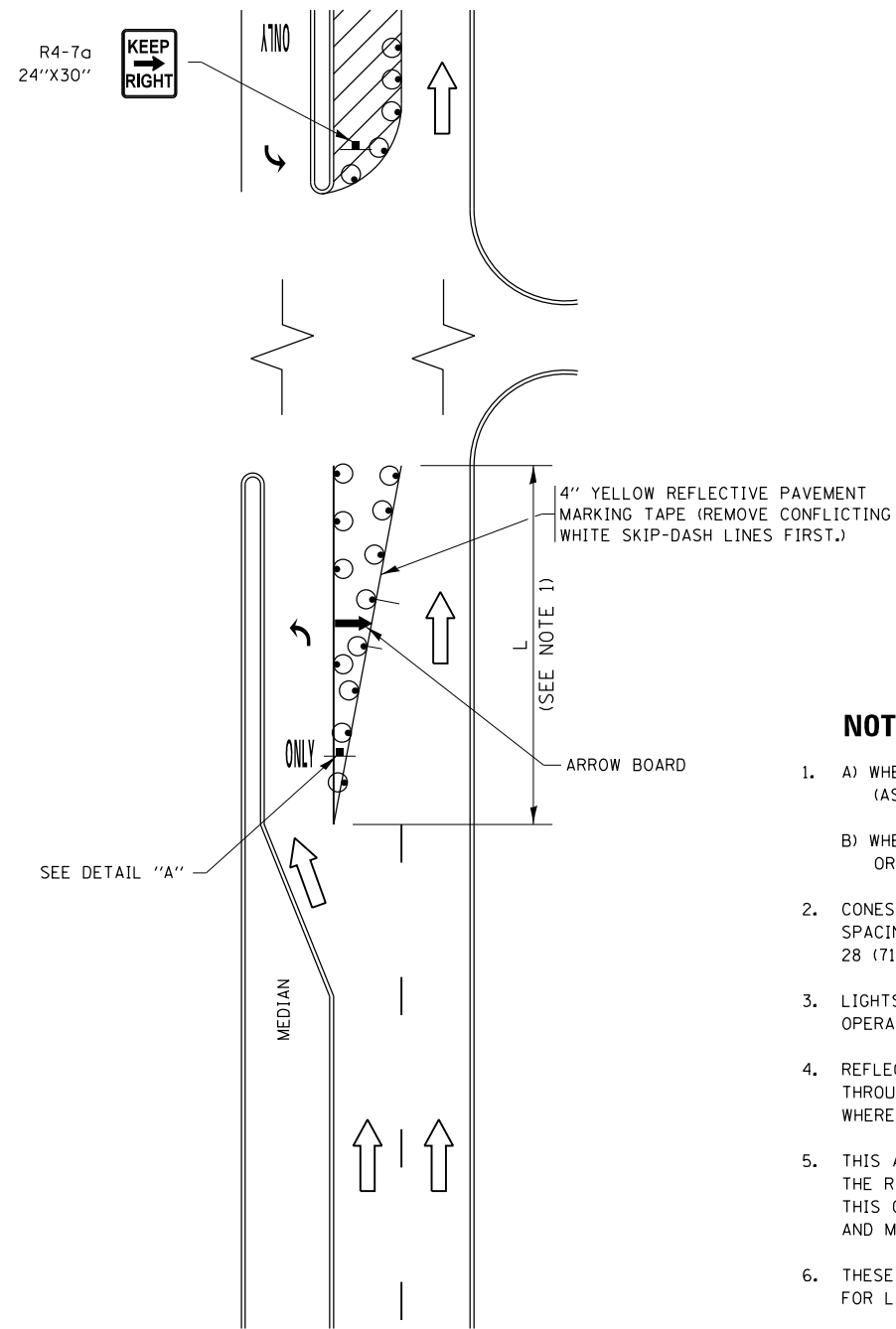
**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**

<b>DISTRICT ONE TYPICAL PAVEMENT MARKINGS</b>			
SCALE: NONE	SHEET 1	OF 1 SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	87-Y-N	COOK	102	94
<b>TC-13</b>		<b>CONTRACT NO. 60J39</b>		
ILLINOIS FED. AID PROJECT				

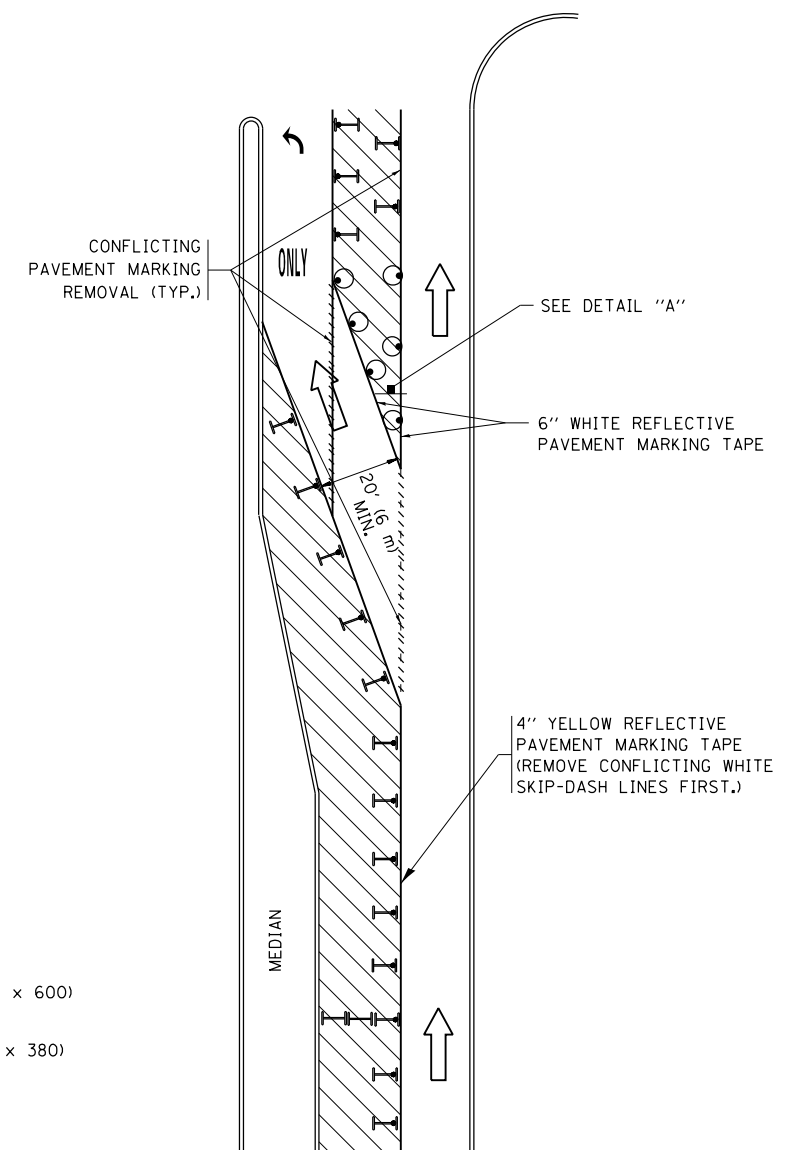


# TURN BAY ENTRANCE AT START OF LANE CLOSURE TAPER

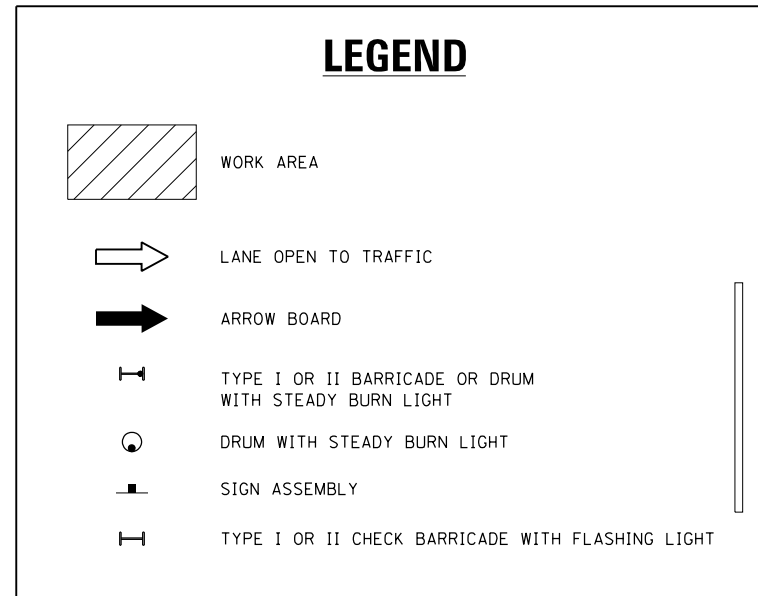


**FIGURE 1**

# TURN BAY ENTRANCE WITHIN A LANE CLOSURE

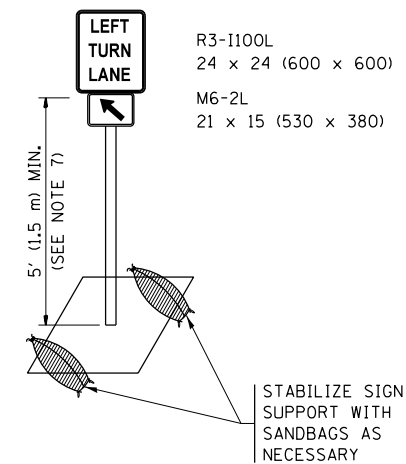


**FIGURE 2**



### NOTES:

1. A) WHEN "L" IS  $\leq$  THE STORAGE LENGTH OF THE TURN LANE (AS SHOWN IN FIG. 1), USE FIGURE 1.  
B) WHEN "L" IS  $>$  THE STORAGE LENGTH OF THE TURN LANE OR THE TURN LANE IS WITHIN THE LANE CLOSURE, USE FIGURE 2.
2. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
3. LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
4. REFLECTIVE TEMPORARY PAVEMENT MARKINGS SHALL BE PLACED THROUGHOUT THE BARRICADED AREAS OF EACH TURN BAY AS SHOWN WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN (14) DAYS.
5. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-1100R 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.
6. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
7. THE SIGNS SHALL BE MOUNTED ABOVE THE BARRICADES/DRUMS ON SEPARATE SIGN SUPPORTS THAT MEET NCHRP 350 OR MASH PREQUIREMENTS.
8. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

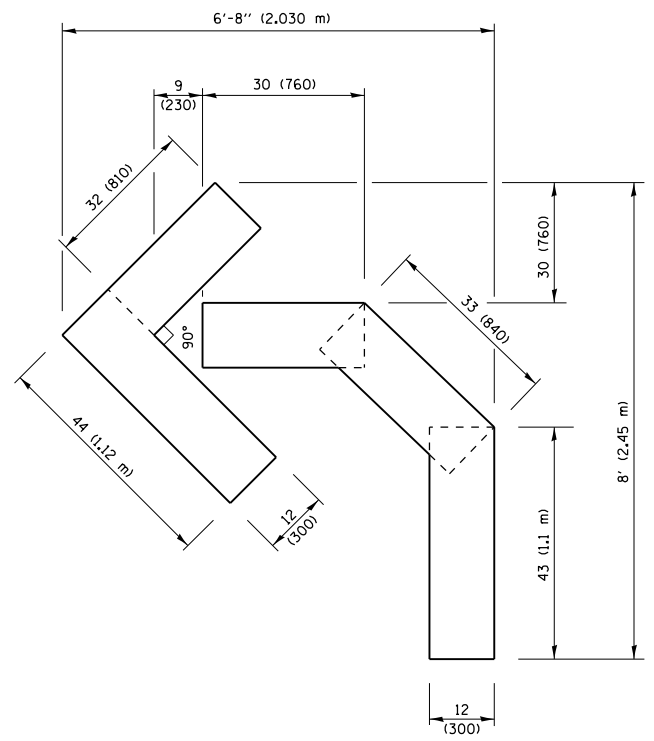


**DETAIL A**

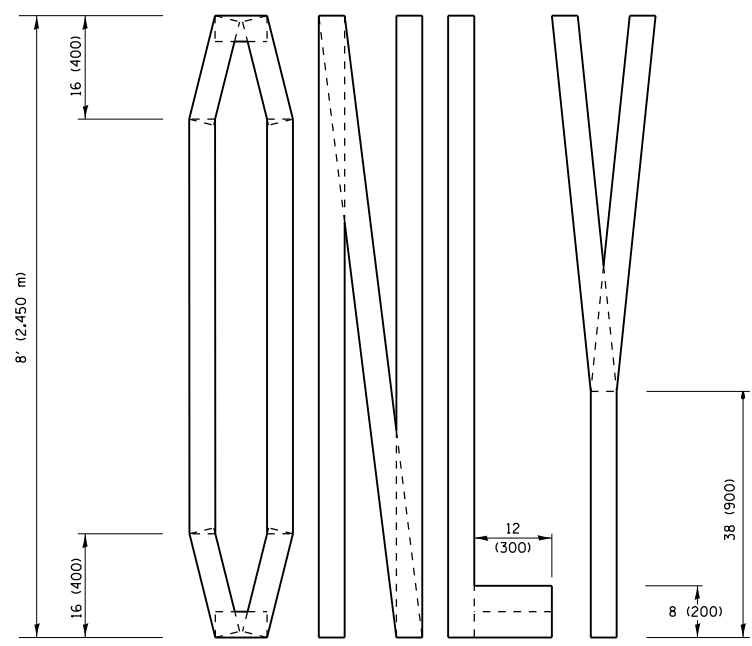
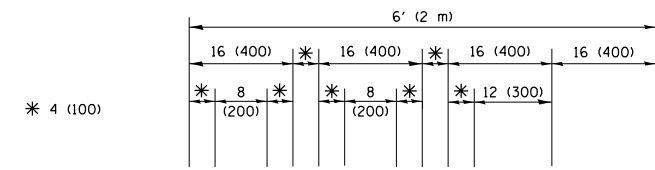
All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME =	USER NAME = bartonr	REVISED - T. RAMMACHER 09-08-94	REVISED - R. BORO 09-14-09	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)</b>				F.A.U. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw\1\084EBIDINTEG.illinois.gov\PIDOT\Documents\IDOT Offices\District 1\Projects\P1439\REVISED\Design\HOUSEH 11-07-95	REVISED - A. SCHUETZE 07-01-13	REVISED - A. HOUSEH 10-12-96	REVISED - A. SCHUETZE 09-15-16		3512	87-Y-N	COOK	102	95				
Default	PLOT SCALE = 100.0000' / in.	REVISED - T. RAMMACHER 01-06-00	REVISED -		<b>TC-14</b>				<b>CONTRACT NO. 60J39</b>				
	PLOT DATE = 11/3/2016				ILLINOIS FED. AID PROJECT								

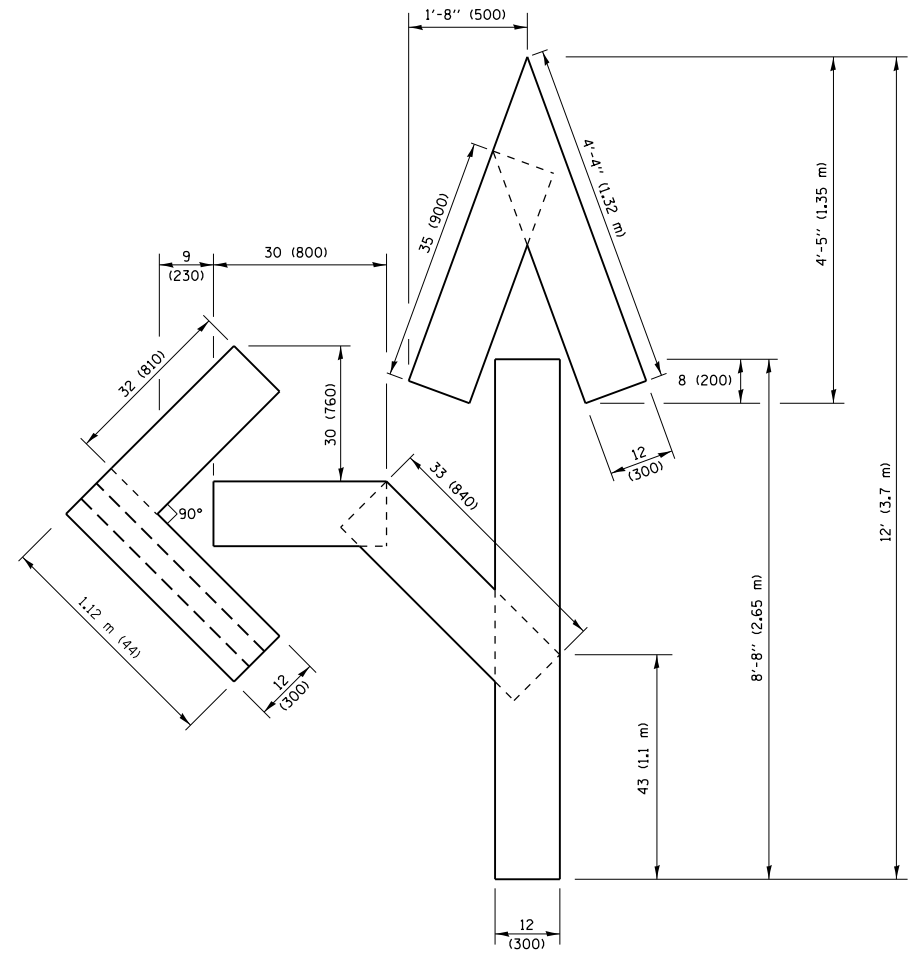
SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.



**QUANTITY**  
 4 (100) LINE = 45.5 ft. (13.9 m)  
 15.2 sq. ft. (1.41 sq. m)

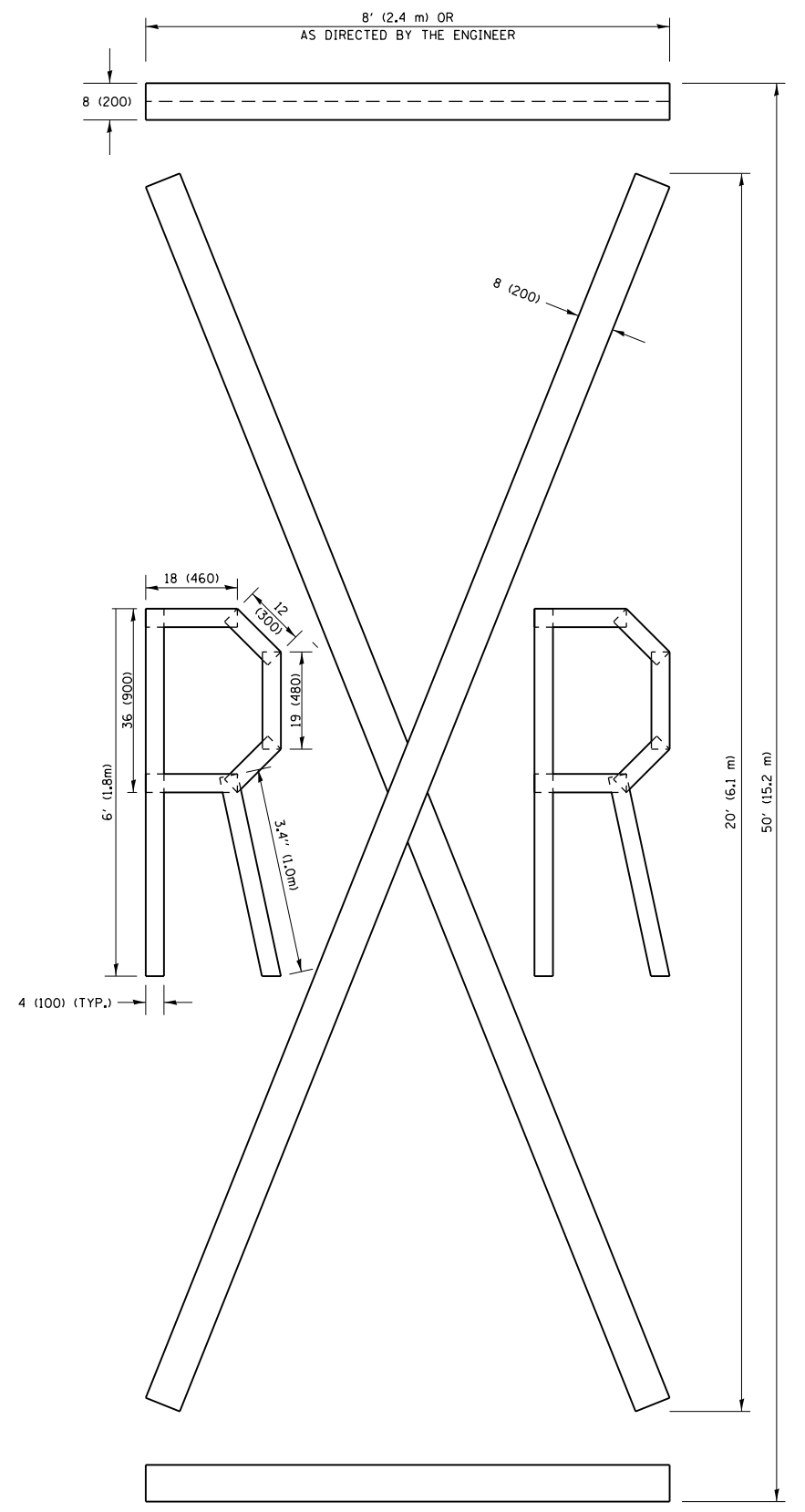


**QUANTITY**  
 4 (100) LINE = 64.1 ft. (19.5 m)  
 21.4 sq. ft. (1.99 sq. m)



**QUANTITY**  
 4 (100) LINE = 82.5 ft. (25.1 m)  
 27.5 sq. ft. (2.53 sq. m)

**NOTE:**  
 ALL QUANTITIES OF PLACEMENT ARE REPRESENTED IN LINEAR FEET OF 4" LINES TO MATCH THE 4" TEMPORARY TAPE PAY ITEM AND REPRESENTS THE TOTAL QUANTITY OF 4" TAPE REQUIRED.



**QUANTITY**  
 4 (100) LINE = 225.9 ft. (68.9 m)  
 75.3 sq. ft. (6.99 sq. m)

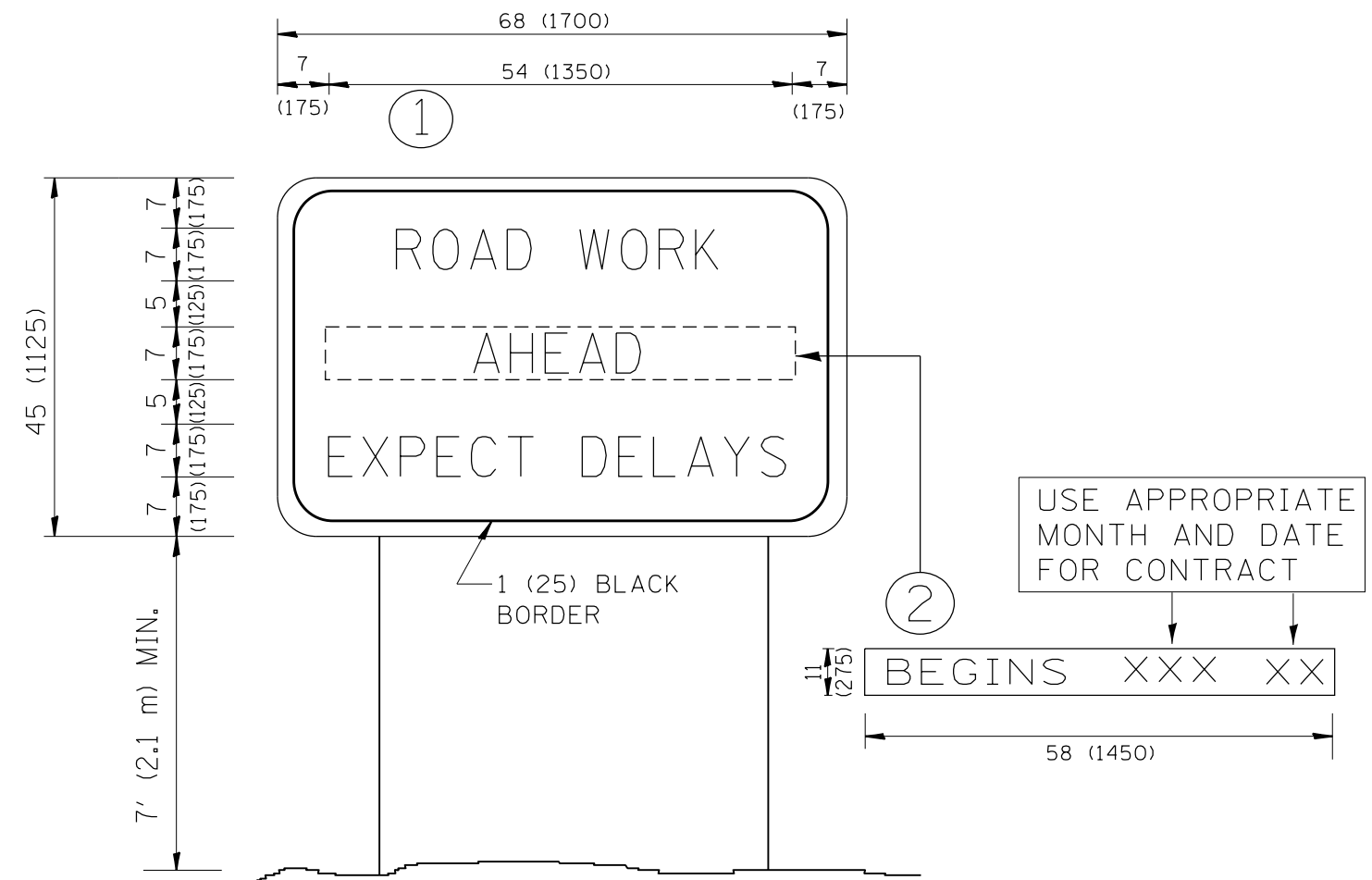
All dimensions are in inches (millimeters) unless otherwise shown.

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		DATE -	REVISED -E. GOMEZ 08-28-00
			REVISED -A. SCHUETZE 09-15-16

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS</b>			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	87-Y-N	COOK	102	96
<b>TC-16</b>		<b>CONTRACT NO. 60J39</b>		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



**NOTES:**

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

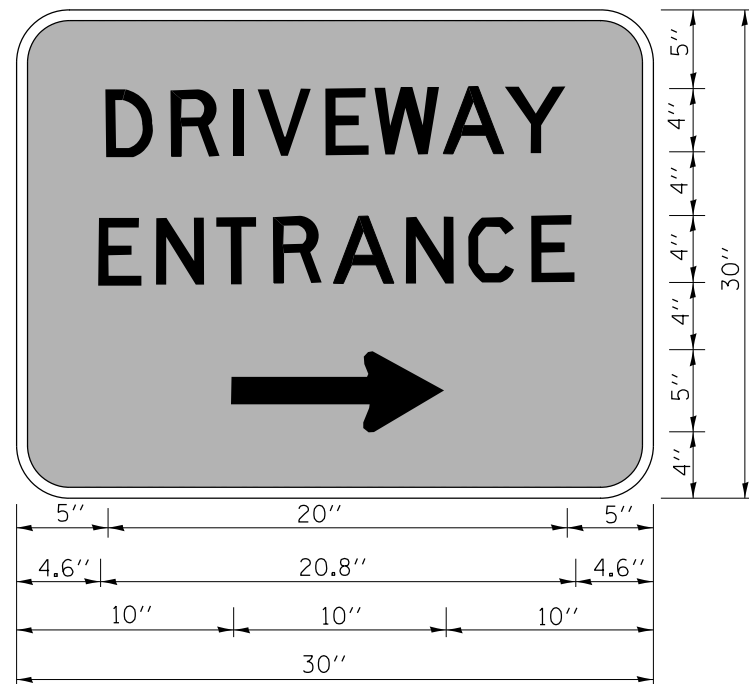
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		PLOT SCALE = 100.0000' / 1in.	REVISED - T. RAMMACHER 02-02-99
		DATE -	REVISED - C. JUCIUS 01-31-07

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ARTERIAL ROAD  
INFORMATION SIGN**

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	87-Y-N	COOK	102	97
TC-22			CONTRACT NO. 60J39	
FED. ROAD DIST. NO. 1   ILLINOIS FED. AID PROJECT				



3.0" RADIUS, 0.5" BORDER, WHITE ON GREEN; REFLECTORIZED  
 "DRIVEWAY" D; "ENTRANCE" D; STANDARD ARROW CUSTOM 12.0" x 5.0"

**NOTES:**

1. HALF OF THE SIGNS WILL REQUIRE A LEFT HAND FACING ARROW.
2. TWO SIGNS SHALL BE USED AT EACH COMMERCIAL ENTRANCE  
 PLACED BACK-TO-BACK; ONE WITH A RIGHT HAND ARROW (SHOWN)  
 SHALL BE PLACED ON THE NEAR RIGHT SIDE THE DRIVEWAY  
 AND ONE WITH A LEFT HAND ARROW SHALL BE PLACED ON THE  
 FAR LEFT SIDE OF THE DRIVEWAY.
3. SIGNS TO BE PAID FOR AS ITEM "TEMPORARY INFORMATION SIGNING".

FILE NAME =	USER NAME = bartonw	DESIGNED -	REVISED - C. JUCIUS 02-15-07
p:\11\084EBIDINTEG\illinois.gov\PWIDOT\Documents\DOT Offices\District 1\Projects\PI430\Drawings\Design\DistStd.dgn		DRAWN -	REVISED -
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	PLOT DATE = 11/3/2016	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

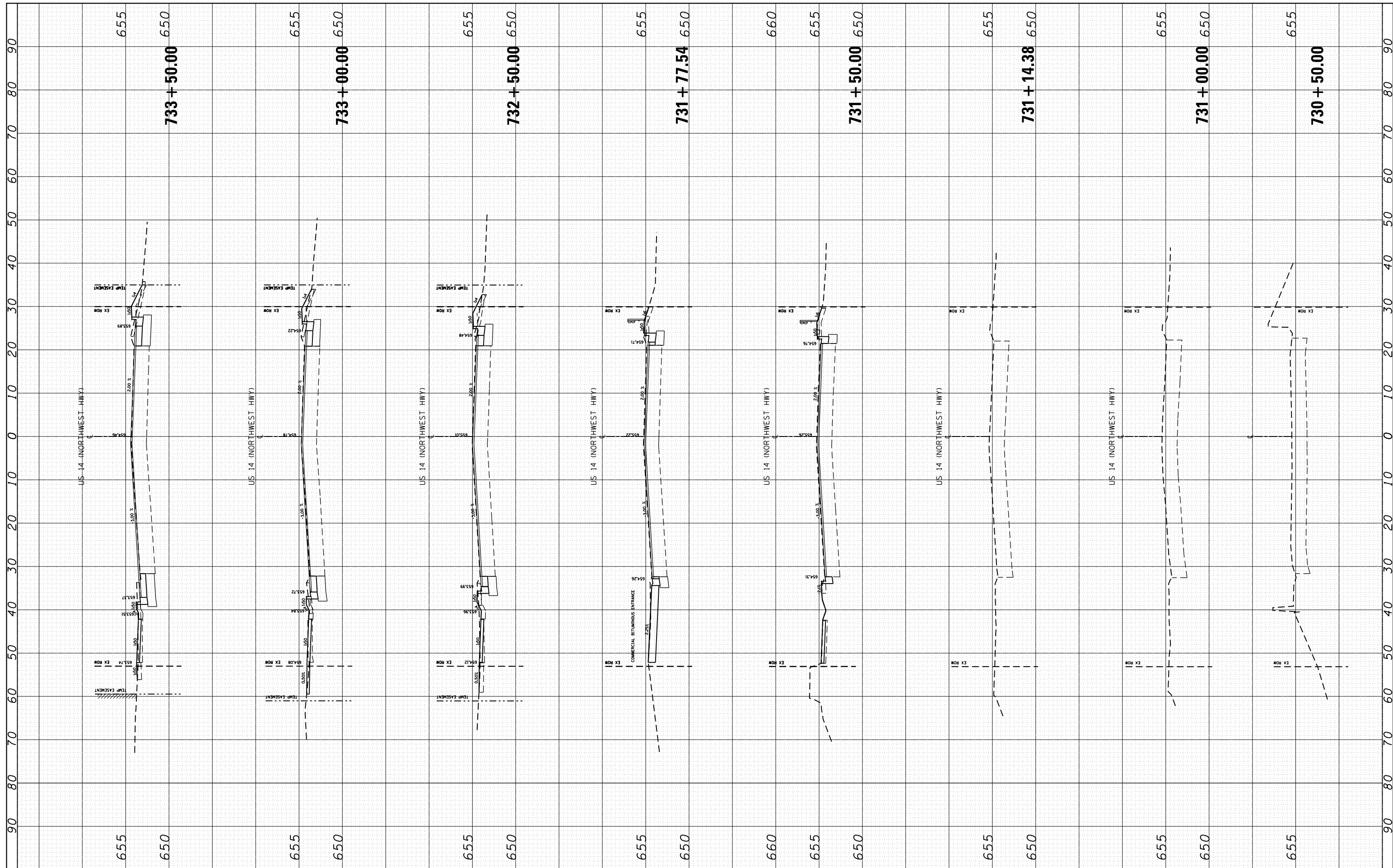
**DRIVEWAY ENTRANCE SIGNING**

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	87-Y-N	COOK	102	98
<b>TC-26</b>			<b>CONTRACT NO. 60J39</b>	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE



FILE NAME =  
Default

USER NAME = bartonrw  
DESIGNED - MTM  
DRAWN - MTM  
CHECKED - BA  
DATE - 4/14/16

REVISED -  
REVISED -  
REVISED -  
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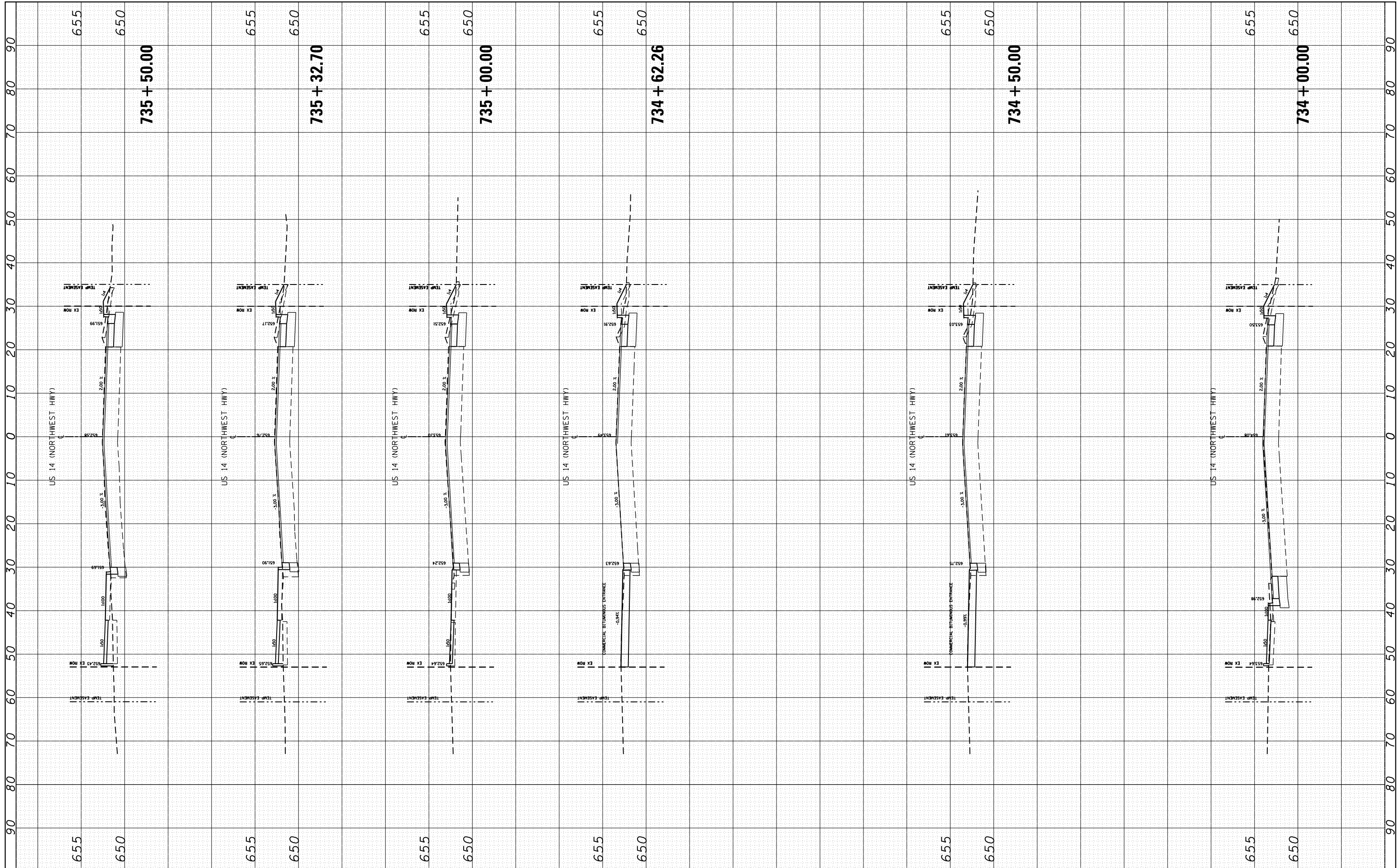
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS  
U.S. RTE. 14 (NORTHWEST HWY.) AT BROADWAY STREET**  
SCALE: SHEET 1 OF 4 SHEETS STA. 730+50.00 TO STA. 733+50.00

F.A.U. RTE. 3512	SECTION 87-Y-N	COUNTY COOK	TOTAL SHEETS 102	SHEET NO. 99
CONTRACT NO. 60J39				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
	AREAS CHECKED		

ORIGINAL SURVEY NO.	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
	AREAS CHECKED		



FILE NAME =  
Default

USER NAME = bartonrw  
DESIGNED - MTM  
DRAWN - MTM  
CHECKED - BA  
DATE - 4/14/16

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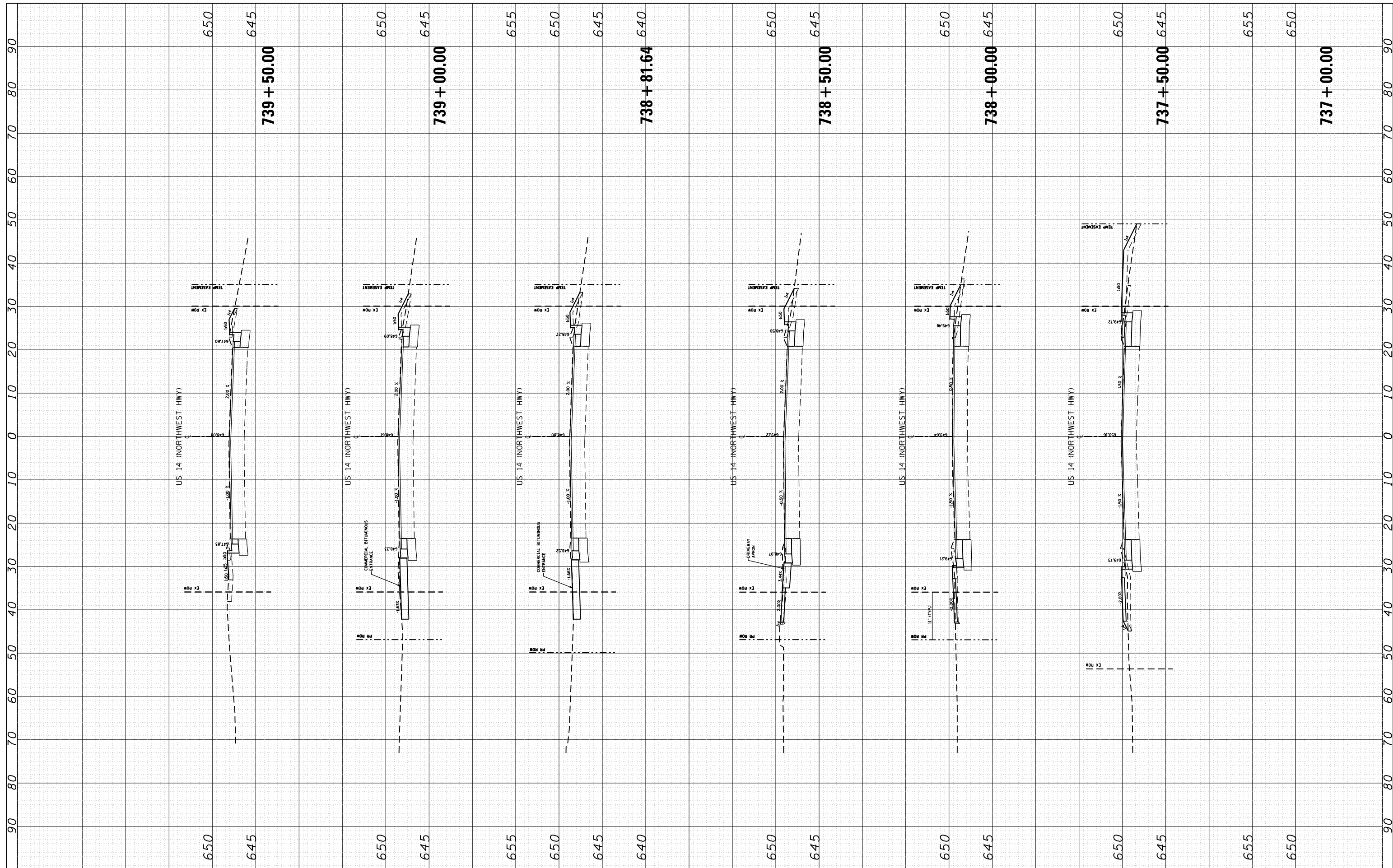
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS  
U.S. RTE. 14 (NORTHWEST HWY.) AT BROADWAY STREET**  
SCALE: SHEET 1 OF 4 SHEETS STA. 734+00.00 TO STA. 735+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	87-Y-N	COOK	102	100
CONTRACT NO. 60J39				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE



FILE NAME =  
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USER NAME = bartonrw  
 DESIGNED - MTM  
 DRAWN - MTM  
 CHECKED - BA  
 DATE - 4/14/16

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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

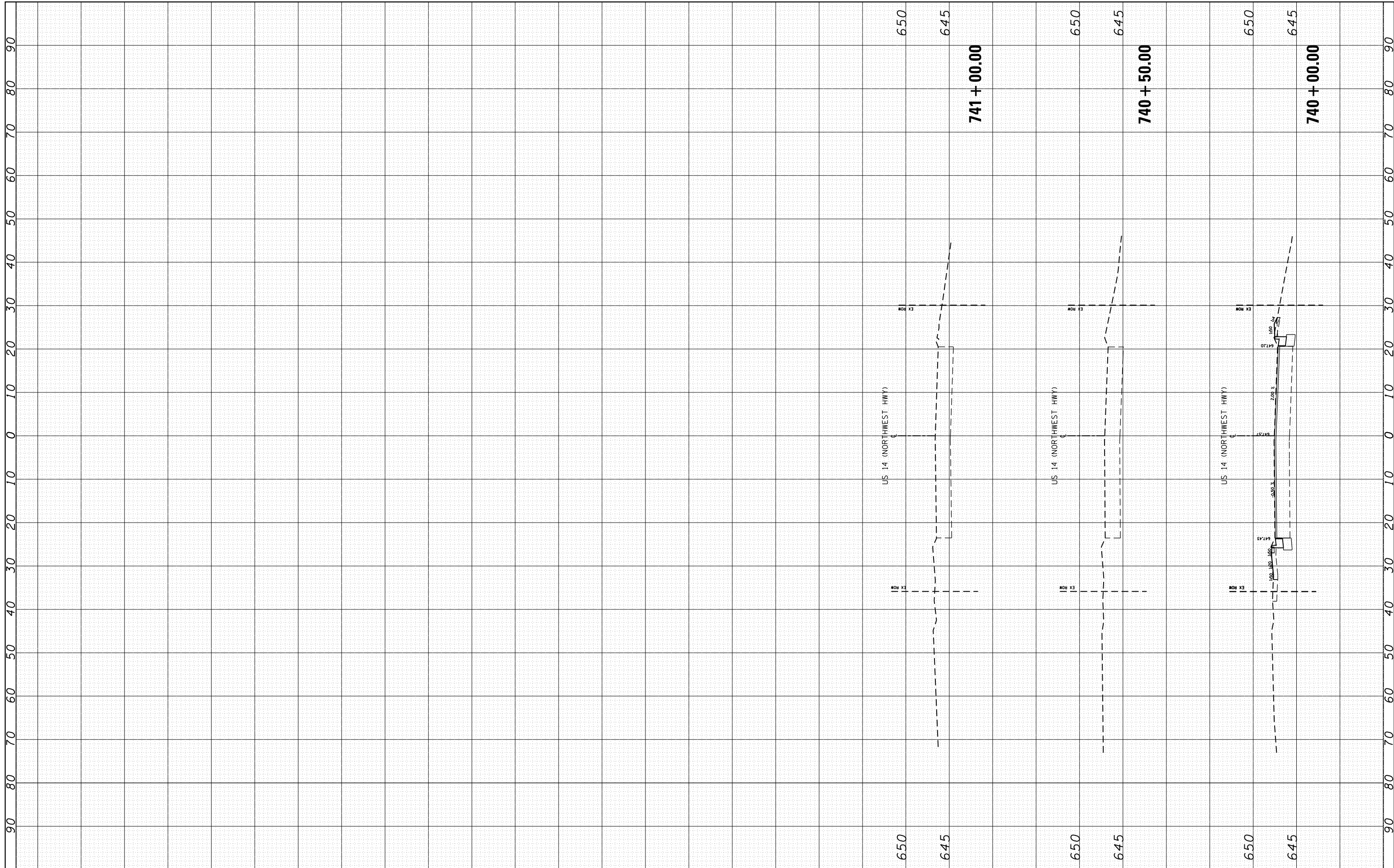
**CROSS SECTIONS  
 U.S. RTE. 14 (NORTHWEST HWY.) AT BROADWAY STREET**

SCALE: SHEET 1 OF 4 SHEETS STA. 737+00.00 TO STA. 739+50.00

F.A.U. RTE. 3512	SECTION 87-Y-N	COUNTY COOK	TOTAL SHEETS 102	SHEET NO. 101
CONTRACT NO. 60J39				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE



FILE NAME =  
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PLOT DATE = 11/3/2016

DESIGNED - MTM  
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DATE - 4/14/16

REVISED -  
REVISED -  
REVISED -  
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS**  
**U.S. RTE. 14 (NORTHWEST HWY.) AT BROADWAY STREET**  
SCALE: SHEET 1 OF 4 SHEETS STA. 740+00.00 TO STA. 741+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	87-Y-N	COOK	102	102
CONTRACT NO. 60J39				
ILLINOIS FED. AID PROJECT				