

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2845	FAU 2845 22 BJ	COOK	35	1
		ILLINOIS	CONTRACT NO. 62T48	

FOR INDEX OF SHEETS AND HIGHWAY STANDARDS, SEE SHEET NO. 2

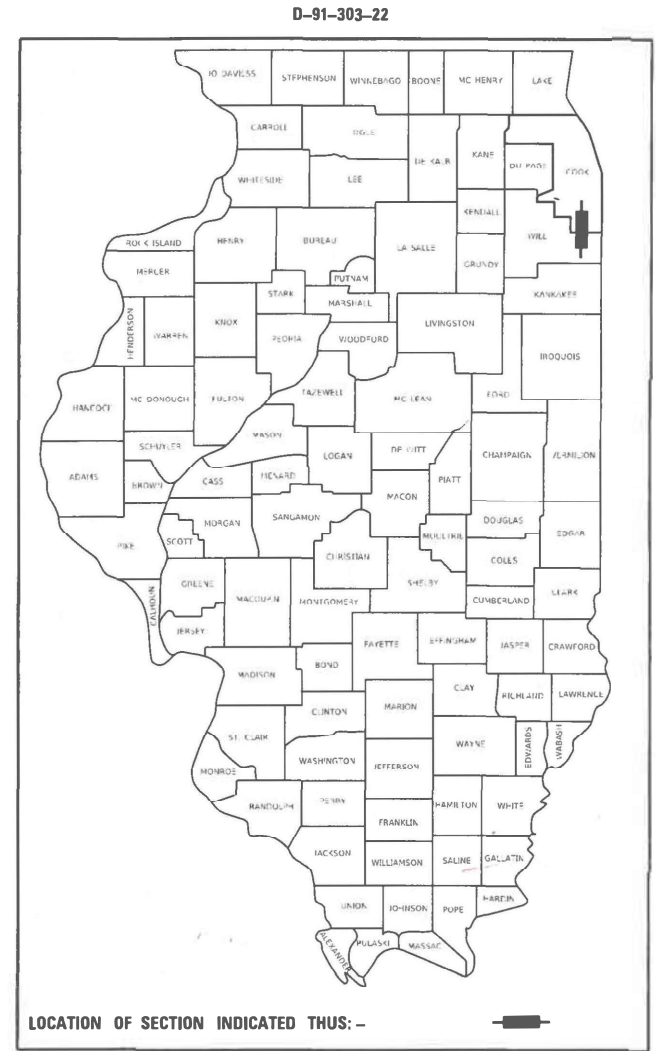
THIS PROJECT IS LOCATED IN THE VILLAGE OF PARK FOREST

**PROPOSED  
HIGHWAY PLANS**

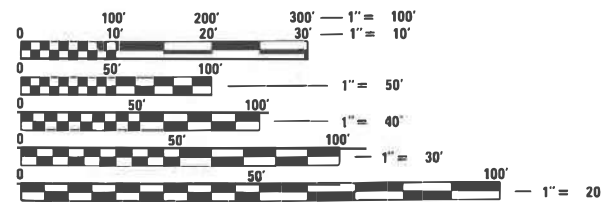
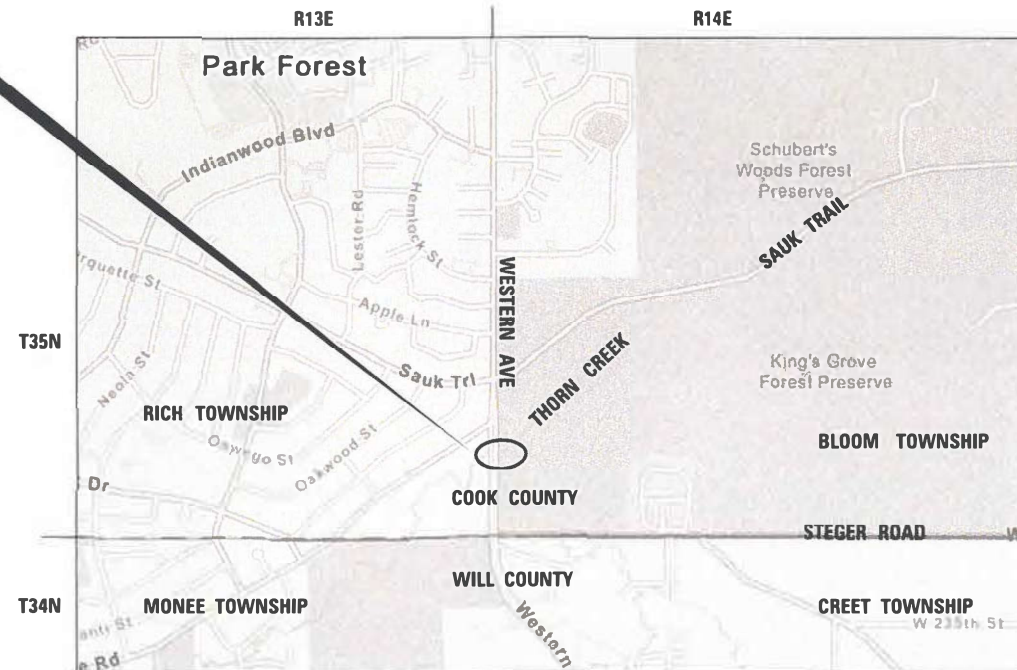
FAU ROUTE 2845: WESTERN AVENUE  
OVER THORN CREEK  
SECTION: FAU 2845 22 BJ  
PROJECT: BR-EBIC(484)  
BRIDGE JOINT REPAIR, BRIDGE DECK OVERLAY  
COOK COUNTY

**TRAFFIC DATA**

2023 ADT = 14,600 VPD  
POSTED SPEED LIMIT = 40 MPH  
MINOR ARTERIAL



PROJECT LOCATION  
WESTERN AVENUE OVER THORN CREEK  
SN 016-2415



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

MEADE ELECTRIC CO. DISTRICT ONE ELECTRICAL MAINTENANCE CONTRACTOR LOCATES IDOT ELECTRICAL EQUIPMENT AND UNDERGROUND CABLES 773-287-7672

PROJECT ENGINEER: VESELIN VELICHKOV (847) 705-4432  
PROJECT MANAGER: FAWAD AQUEEL

CONTRACT NO. 62T48

GROSS LENGTH = 1,119 FT. = 0.212 MILES  
NET LENGTH = 136 FT. = 0.025 MILES



Alexander Lane  
ALEXANDER CARL LANE, P.E.  
IL. LIC. NO. 062-063261  
EXP: 11/30/2025  
DATE: 12/5/2024

THIS SEAL AND SIGNATURE PERTAINS TO SHEETS 1 TO 10

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED Dec 12 20 24  
Josiah Jones IR

REGION 1 ENGINEER  
January 31 20 25

Scott A. Etkin  
ENGINEER OF DESIGN AND ENVIRONMENT

January 31 20 25

Quarry  
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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CONTACT: ALEXANDER LANE (312) 477-0620

## INDEX OF SHEETS

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## STATE STANDARDS

STANDARD NO.	DRAWING NAME
000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
606301-04	PC CONCRETE ISLANDS AND MEDIANS
630001-13	STEEL PLATE BEAM GUARDRAIL
701427-05	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS ≤ 40 MPH
701502-09	URBAN LANE CLOSURE, 2L, 2W, WITH BIDIRECTIONAL LEFT TURN LANE
701601-09	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERABLE MEDIUM
701606-10	URBAN SINGLE LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIUM
701611-01	URBAN HALF ROAD CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIUM
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-10	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
780001-05	TYPICAL PAVEMENT MARKINGS
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

## HMA TABLE

HOT-MIX ASPHALT MIXTURE REQUIREMENTS		AIR VOIDS @ Notes	QUALITY MANAGEMENT PROGRAM (QMP)
MIXTURE TYPE			
APPROACH SLABS			
HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70, VARIES		4% @ 70 Gyr	QC/QA
ASPHALT MEDIUM			
HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70, VARIES		4% @ 70 Gyr	QC/QA
QMP DESIGNATION: QUALITY CONTROL/ QUALITY ASSURANCE (QC/QA): QUALITY CONTROL FOR PERFORMANCE (QCP): PAY FOR PERFORMANCE (PFP)			
MIXTURE REQUIREMENT NOTES:			
1.THE UNIT WEIGHT USED TO CALCULATE ALL HMA 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 RECLAIMED MATERIALS SPECIFICATIONS.			

## GENERAL NOTES

- THE EXACT LOCATION OF ALL UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE ORDERING ANY MATERIALS AND STARTING ANY WORK. FOR LOCATIONS OF UTILITIES, LOCALLY OWNED EQUIPMENT, LEASED ENFORCEMENT CAMERA SYSTEM FACILITIES AND IDOT UNDERGROUND FACILITIES, CONTACT THE LOCAL COUNTIES, MUNICIPALITIES AND IDOT FOR LOCATES.
- MEADE ELECTRIC COMPANY, THE IDOT DISTRICT ONE ELECTRICAL MAINTENANCE CONTRACTOR, LOCATES IDOT ELECTRICAL EQUIPMENT AND UNDERGROUND CABLES. CALL 773-287-7672 FOR THE INITIAL LOCATE. REQUEST FOR LOCATES OF PREVIOUSLY MARKED FACILITIES MAY BE AT THE CONTRACTOR'S EXPENSE.
- IN ADDITION TO FIELD REVIEW AND AERIAL DATA, PLAN DIMENSIONS AND DETAILS RELATIVE TO THE EXISTING FACILITIES HAVE BEEN TAKEN FROM EXISTING PLANS AND ARE SUBJECT TO CONSTRUCTION VARIATIONS. PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING PLANS ARE SUBJECT TO ROUTINE VARIATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN THE SCOPE OF WORK. HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE BID PRICE FOR THE WORK.
- THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO BEGINNING CONSTRUCTION AND ORDERING MATERIALS.
- 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.
- THE DEPARTMENT HAS NOT OBTAINED ANY PERMITS FOR OFFSITE BORROW, WASTE, USE (BWU) AREAS. PRIOR TO WORKING IN BWU AREAS, IF THE CONTRACTOR CHOOSES TO USE ACTIVITIES REQUIRING PERMITS IT IS THE CONTRACTOR'S RESPONSIBILITY TO SECURE THE PROPER PERMITS, IN ADDITION TO THE BORROW REVIEW (BDE 2289) AND USE/WASTE REVIEW (BDE 2290) SUBMITTALS, THE CONTRACTOR SHALL SUBMIT AN EROSION AND SEDIMENT CONTROL (ESC) PLAN FOR EVERY BWU SITE TO THE DEPARTMENT FOR ACCEPTANCE. GUIDELINES FOR ACCEPTABLE BWU PRACTICES CAN BE FOUND IN SECTION 11.G.1. THE COST OF ALL MATERIALS AND LABOR NECESSARY TO COMPLY WITH THE ABOVE PROVISIONS TO PREPARE AND IMPLEMENT ESC PLANS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE CONTRACT UNIT PRICES AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- THE CONTRACTOR SHALL CONTACT KALPANA KANNAN-HOSADURGA THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
- THE RESIDENT ENGINEER SHALL CONTACT PATRICE HARRIS, AREA TRAFFIC FIELD TECHNICIAN, AT PATRICE.HARRIS@ILLINOIS.GOV A MINIMUM OF TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
- THE DEPARTMENT HAS DETERMINED THAT IN STREAM WORK IS NOT REQUIRED FOR THE WORK SPECIFIED IN THIS CONTRACT. THE DEPARTMENT HAS NOT OBTAINED A 404 PERMIT. IF THE CONTRACTOR CHOOSES TO USE ACTIVITIES REQUIRING AN USACE 404 PERMIT IT IS THE CONTRACTOR'S RESPONSIBILITY TO SECURE THE PROPER USACE PERMITS.
- THESE PLANS HAVE BEEN PREPARED FROM NOTES RECEIVED FROM I.D.O.T. FIELD MAINTENANCE ENGINEERS.
- THE CONTRACTOR SHALL USE CARE IN REMOVING OR EXCAVATING NEAR ALL EXISTING ITEMS WHICH WILL REMAIN. ANY DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- SAW CUTTING PRIOR TO ANY REMOVAL ITEMS NOTED ON THE PLANS OR DIRECTED BY THE ENGINEER SHALL BE CONSIDERED INCLUDED IN THE COST OF THE ITEMS BEING REMOVED.
- FOR WORK OUTSIDE THE LIMITS OF BRIDGE APPROACH PAVEMENT. ALL REFERENCES IN THE HIGHWAY STANDARDS AND STANDARD SPECIFICATIONS FOR REINFORCEMENT, DOWEL BARS AND TIE BARS IN PAVEMENT SHALL BE EPOXY COATED UNLESS NOTED ON THE PLANS.
- 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 PLANS.
- THE CENTERLINE IS FOR INFORMATION ONLY.
- 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 THESE LOCATIONS BE RE-ESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE AS DIRECTED BY THE ENGINEER.
- PHOSPHORUS FERTILIZER HAS BEEN INTENTIONALLY OMITTED FROM THE CONTRACT DUE TO THE PROXIMITY TO THORN CREEK. A PHOSPHORUS-FREE FERTILIZER SHALL BE USED (MIDDLE NUMBER SHOULD EQUAL 0).

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**INFRASTRUCTURE ENGINEERING** INCORPORATED  
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PLOT SCALE = 20.0000' / in.	DRAWN - ART	REVISED -
PLOT DATE = 1/24/2025	CHECKED - ACL	REVISED -
	DATE - 12/09/2024	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**INDEX OF SHEETS, STATE STANDARDS, HMA TABLE, AND GENERAL NOTES  
WESTERN AVENUE OVER THORN CREEK**

SCALE: SHEET OF SHEETS STA. TO STA.

F. AU. R. T. E.	SECTION	COUN TY	TOTAL SHEETS	SHEET NO.
2845	FAU 2845 22 BJ	COOK	3	2
			CONTRACT NO. 62T48	
ILLINOIS FED. AID PROJECT				

PAY ITEM NUMBER	DESIGNATION	UNIT	CONSTRUCTION CODE			
			URBAN		0059	
			TOTAL QUANTITY	80% FEDERAL 20% STATE	100% STATE	
20200100	EARTH EXCAVATION	CU YD	25	25		
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	19	19		
21400100	GRADING AND SHAPING DITCHES	FOOT	20	20		
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	1	1		
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	1	1		
25200110	SODDING, SALT TOLERANT	SQ YD	19	19		
25200200	SUPPLEMENTAL WATERING	UNIT	1.0	1.0		
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	6	6		
28100103	STONE RIPRAP, CLASS A2	SQ YD	12	12		
28200200	FILTER FABRIC	SQ YD	16	16		
35101400	AGGREGATE BASE COURSE, TYPE B	TON	2	2		
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	240	240		
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	70	70		
40604062	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70	TON	86	86		
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	700	700		
44000600	SIDEWALK REMOVAL	SQ FT	700	700		
44003100	MEDIAN REMOVAL	SQ FT	1,135	1,135		
50102400	CONCRETE REMOVAL	CU YD	16.9	16.9		
50300255	CONCRETE SUPERSTRUCTURE	CU YD	14	14		
50300260	BRIDGE DECK GROOVING	SQ YD	257	257		
50300300	PROTECTIVE COAT	SQ YD	536	536		
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	2,110	2,110		

\* = SPECIALTY ITEM

PAY ITEM NUMBER	DESIGNATION	UNIT	CONSTRUCTION CODE			
			URBAN		0059	
			TOTAL QUANTITY	80% FEDERAL 20% STATE	100% STATE	
54213660	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"	EACH	1	1		
550A0070	STORM SEWERS, CLASS A, TYPE 1 15"	FOOT	16	16		
60300105	FRAMES AND GRATES TO BE ADJUSTED	EACH	4	4		
60623105	CONCRETE MEDIAN, TYPE SM-6.18	SQ FT	1,135	1,135		
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	20	20		
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	3	3		
* 66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1	1		
* 66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1	1		
* 66901006	REGULATED SUBSTANCES MONITORING	CAL DA	3	3		
67100100	MOBILIZATION	L SUM	1	1		
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	10	10		
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	243	243		
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	150	150		
70307120	TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE IV TAPE	FOOT	2,723	2,723		
70400100	TEMPORARY CONCRETE BARRIER	FOOT	375.0	375.0		
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	375	375		
70600250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	2		
70600350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	2		
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	73	73		
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	501	501		
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	371	371		
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	98	98		
* 78003111	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - STANDARD - LINE 4"	FOOT	18	18		
* 78003131	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - STANDARD - LINE 6"	FOOT	5	5		

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<b>INFRASTRUCTURE ENGINEERING</b> <small>INCORPORATED</small> 1 South Wacker   Suite 2650   Chicago, IL 60606 P 312.425.9580   F 312.425.9584   www.infrastructure-eng.com	USER NAME = ALane	DESIGNED - CW	REVISED -
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		DATE - 12/09/2024	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES  
WESTERN AVENUE OVER THORN CREEK**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2845	FAU 2845 22 BJ	COOK	35	3
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62T48	

PAY ITEM NUMBER	DESIGNATION	UNIT	CONSTRUCTION CODE		
			URBAN		
			TOTAL QUANTITY	80% FEDERAL 20% STATE	100% STATE
78011025	GROOVING FOR RECESSED PAVEMENT MARKING 5"	FOOT	18	18	
78011035	GROOVING FOR RECESSED PAVEMENT MARKING 7"	FOOT	5	5	
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	10	10	
* 78200011	BARRIER WALL REFLECTORS, TYPE C	EACH	30	30	
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	10	10	
78300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	40	40	
X0320050	CONSTRUCTION LAYOUT (SPECIAL)	L SUM	1	1	
X2511630	EROSION CONTROL BLANKET (SPECIAL)	SQ YD	28	28	
X4400503	COMBINATION CURB AND GUTTER REMOVAL AND REPLACEMENT GREATER THAN 10 FEET	FOOT	200	200	
X5091732	REPAIR BRIDGE RAIL	FOOT	34	34	
X5537800	STORM SEWERS TO BE CLEANED 12"	FOOT	150		150
X6700407	ENGINEER'S FIELD OFFICE, TYPE A (D1)	CAL MO	12	12	
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1	
X7830050	RAISED REFLECTIVE PAVEMENT MARKER, REFLECTOR REMOVAL	EACH	95	95	
* X7830052	RAISED REFLECTIVE PAVEMENT MARKER, REFLECTOR REPLACEMENT	EACH	95	95	
X8860105	DETECTOR LOOP REPLACEMENT	FOOT	66	66	
Z0001700	APPROACH SLAB REPAIR (FULL DEPTH)	SQ YD	1	1	
Z0001800	APPROACH SLAB REPAIR (PARTIAL DEPTH)	SQ YD	20	20	
Z0004556	HOT-MIX ASPHALT SURFACE REMOVAL (DECK)	SQ YD	534	534	
Z0006014	BRIDGE DECK LATEX CONCRETE OVERLAY, 2 1/2 INCHES	SQ YD	245	245	
Z0012132	BRIDGE DECK SCARIFICATION 1"	SQ YD	245	245	
Z0012148	BRIDGE DECK SCARIFICATION 3"	SQ YD	35	35	
* Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	328	328	

\* = SPECIALTY ITEM

PAY ITEM NUMBER	DESIGNATION	UNIT	CONSTRUCTION CODE		
			URBAN		
			TOTAL QUANTITY	80% FEDERAL 20% STATE	100% STATE
Z0016002	DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	4	4	
Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	6		6
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	62	62	
* Z0073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	2	2	

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USER NAME = AAlane	DESIGNED - CW	REVISED -
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PLOT DATE = 12/9/2024	CHECKED - ACL	REVISED -
	DATE - 12/09/2024	REVISED -

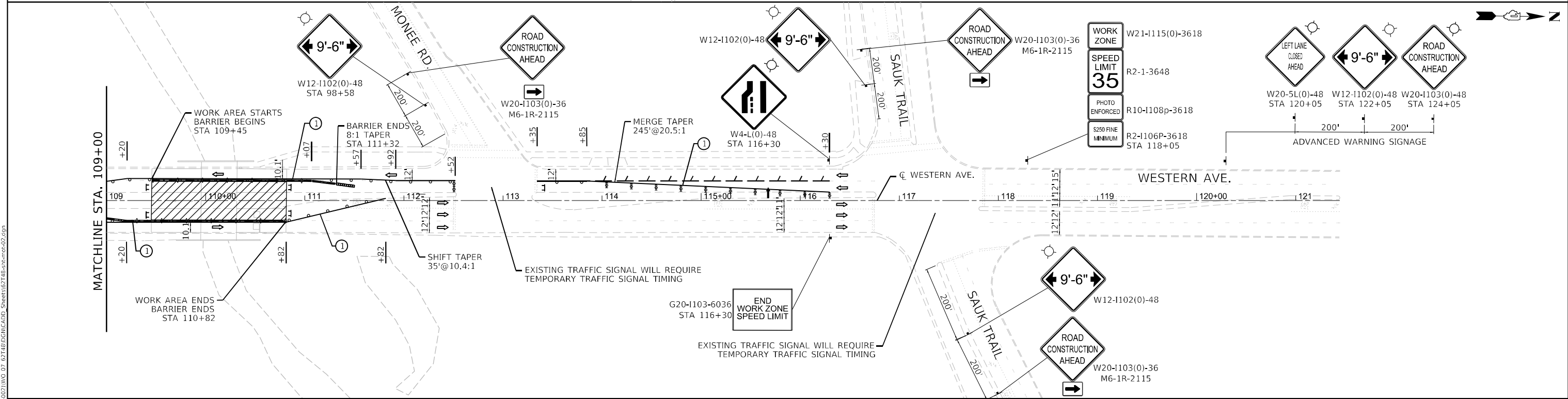
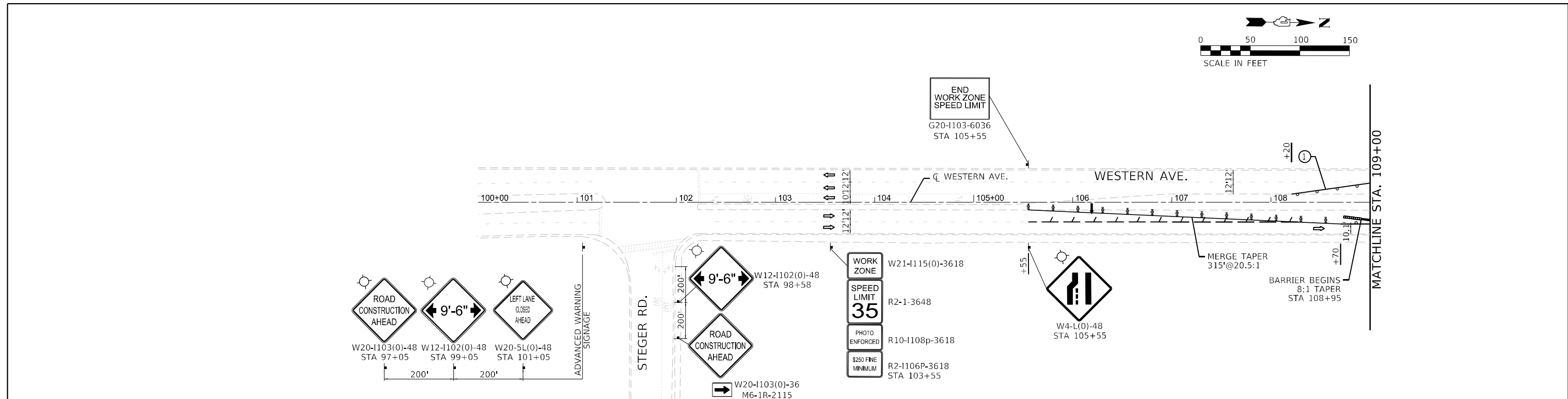
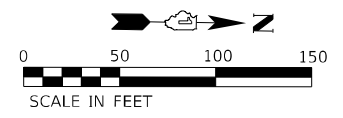
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES  
WESTERN AVENUE OVER THORN CREEK**

SCALE: SHEET OF SHEETS STA. TO STA.

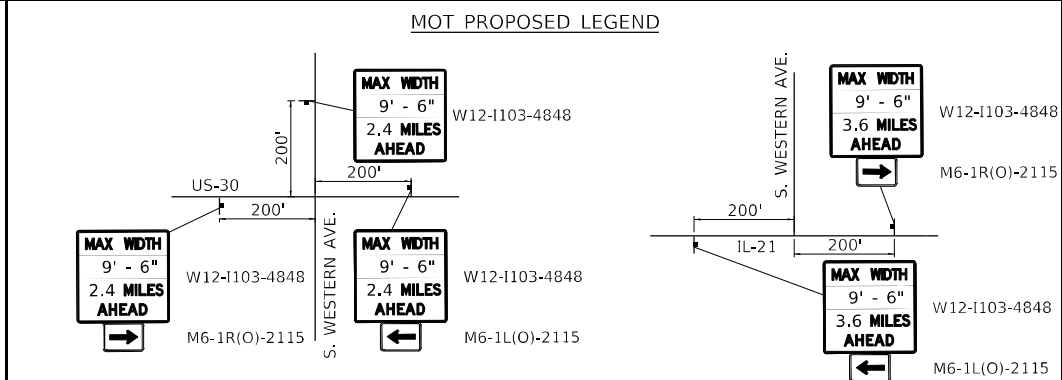
F.A.U. RTE. 2845	SECTION FAU 2845 22 BJ	COUNTY COOK	TOTAL SHEETS 35	SHEET NO. 4
		CONTRACT NO. 62T48		
		ILLINOIS FED. AID PROJECT		





- MOT SYMBOL LEGEND**
- DRUM OR BARRICADE
  - ◄ DIRECTION INDICATOR BARRICADE
  - ▨ WORK AREA
  - ⊥ TYPE III BARRICADE WITH FLASHING LIGHTS
  - ⊥ BARRICADE OR DRUM WITH FLASHING LIGHT
  - ⇄ DIRECTION OF TRAFFIC
  - ⊥ SIGN ON PORTABLE OR PERMANENT SUPPORT
  - ▬ TEMPORARY CONCRETE BARRIER
  - ▬ IMPACT ATTENUATOR
  - ◊ CRYSTAL, BIDIRECTIONAL BARRIER WALL REFLECTOR
  - ▬ PAVEMENT MARKING REMOVAL

- MOT PROPOSED LEGEND**
- ① TEMPORARY PAVEMENT MARKING TAPE, TYPE IV 4" (YELLOW)
  - ② TEMPORARY PAVEMENT MARKING TAPE, TYPE IV 4" (WHITE)
- NOTE: REMOVE CONFLICTING PAVEMENT MARKING USING PAVEMENT MARKING REMOVAL - WATERBLASTING



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USER NAME = Alane	DESIGNED - CW	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN - CW	REVISED -
PLOT DATE = 1/3/2025	CHECKED - ACL	REVISED -
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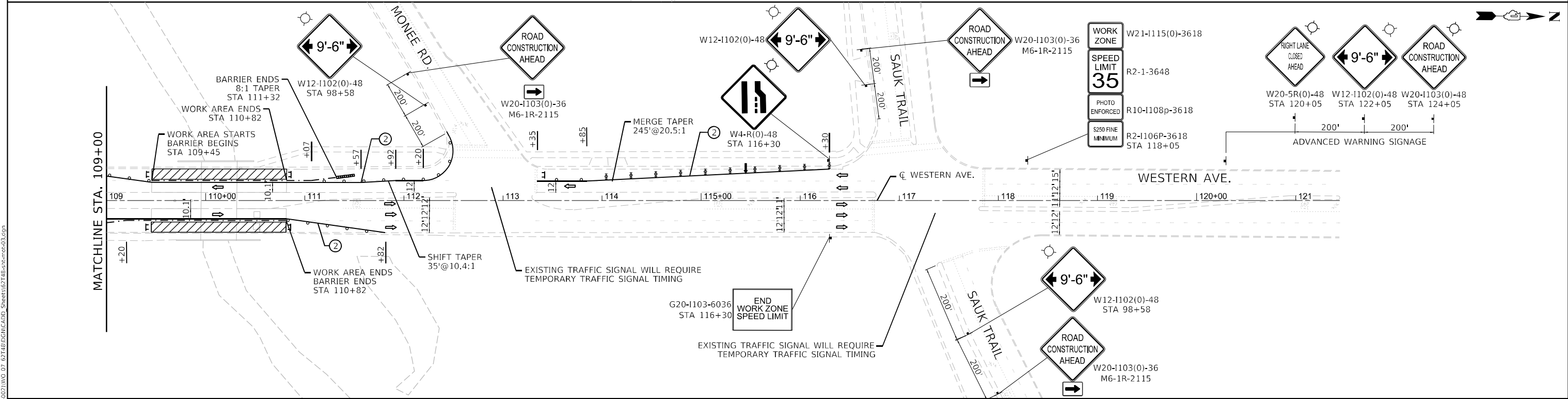
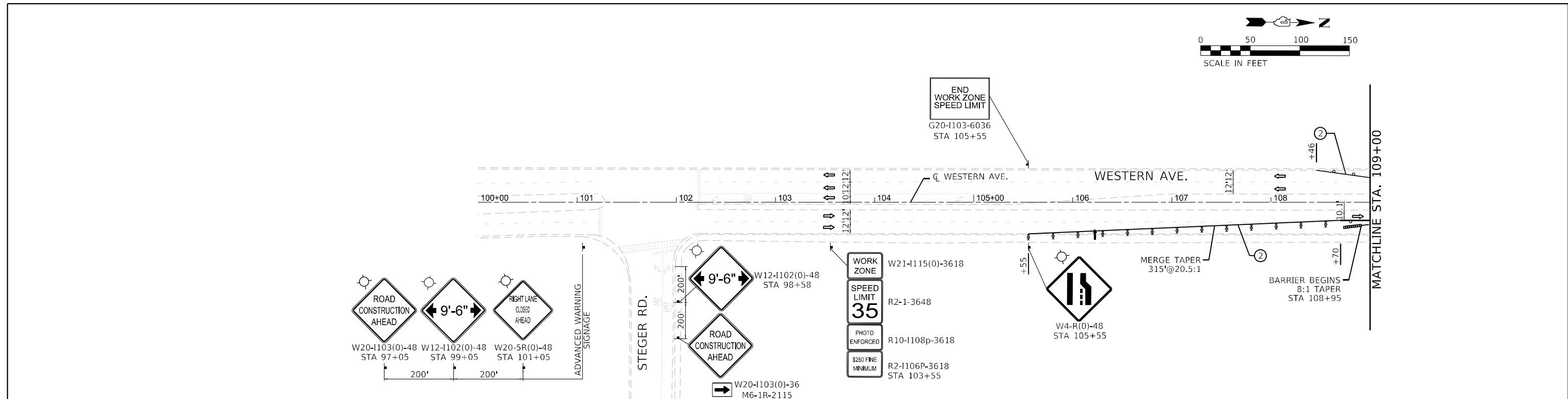
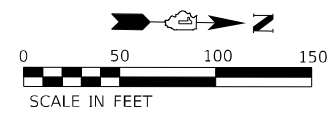
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL PLANS - STAGE 1  
 WESTERN AVENUE OVER THORN CREEK**

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

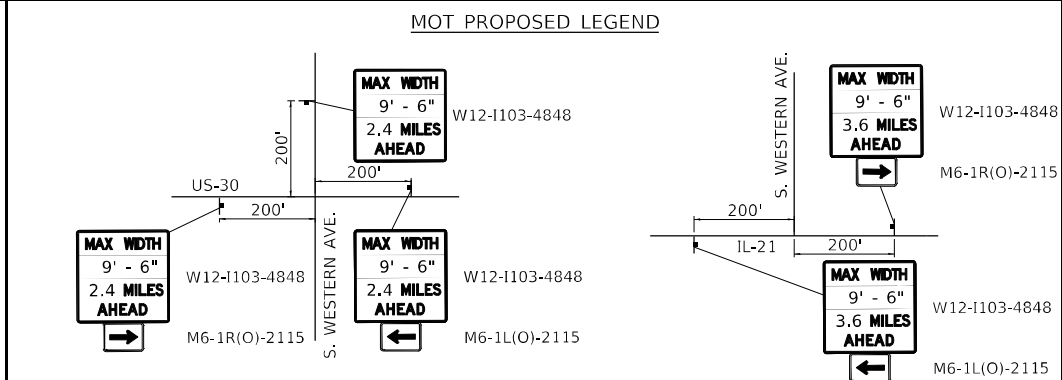
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2845	FAU 2845 22 BJ	COOK	35	6
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62T48	

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 PLOT DATE: 1/3/2025



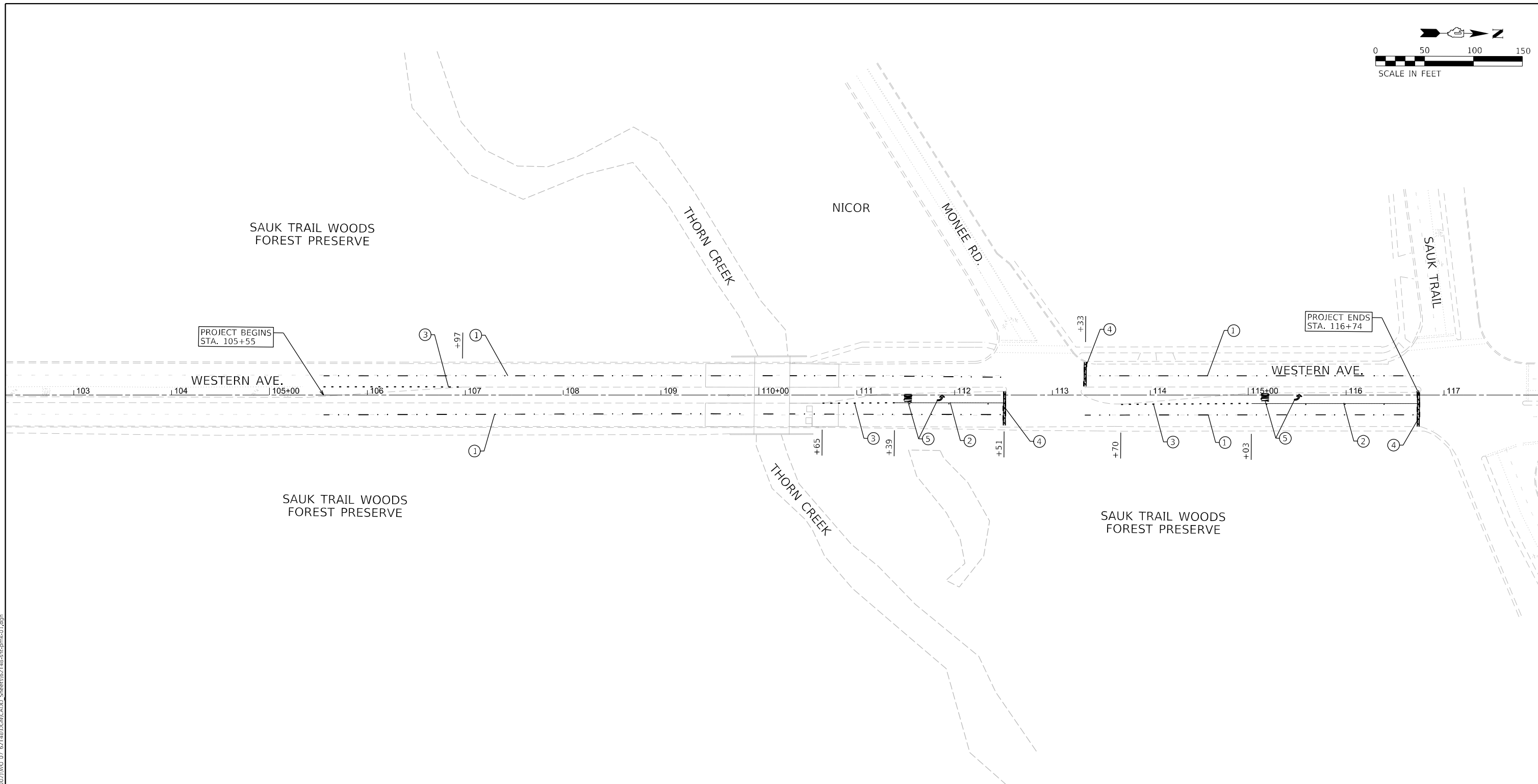
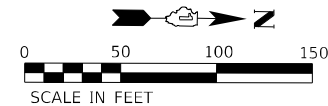
- MOT SYMBOL LEGEND**
- DRUM OR BARRICADE
  - ⬆ DIRECTION INDICATOR BARRICADE
  - ▨ WORK AREA
  - ⊥ TYPE III BARRICADE WITH FLASHING LIGHTS
  - ⊥ BARRICADE OR DRUM WITH FLASHING LIGHT
  - ⇄ DIRECTION OF TRAFFIC
  - ⊥ SIGN ON PORTABLE OR PERMANENT SUPPORT
  - ▬ TEMPORARY CONCRETE BARRIER
  - ▬ IMPACT ATTENUATOR
  - ◇ CRYSTAL, BIDIRECTIONAL BARRIER WALL REFLECTOR
  - ⊥ PAVEMENT MARKING REMOVAL

- MOT PROPOSED LEGEND**
- ① TEMPORARY PAVEMENT MARKING TAPE, TYPE IV 4" (YELLOW)
  - ② TEMPORARY PAVEMENT MARKING TAPE, TYPE IV 4" (WHITE)
- NOTE: REMOVE CONFLICTING PAVEMENT MARKING USING PAVEMENT MARKING REMOVAL - WATERBLASTING









**PAVEMENT MARKING LEGEND**

- ① LINE 4", SKIP-DASH, WHITE (10' LINE - 30' SPACE)
- ② LINE 6", SOLID, WHITE
- ③ LINE 6", SKIP-DASH, WHITE (2' LINE - 6' SPACE)
- ④ LINE 24", SOLID, WHITE
- ⑤ LETTERS & SYMBOLS, SOLID, WHITE

**NOTES:**

1. ALL FINAL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC PAVEMENT MARKINGS (OF THE EXTRUDED TYPE) ON HMA PAVEMENT.
2. PREFORMED PLASTIC PAVEMENT MARKINGS, TYPE B AND GROOVING FOR RECESSED PAVEMENT MARKINGS SHALL BE USED FOR ALL PAVEMENT MARKINGS WITHIN BRIDGE LIMITS.
3. ALL FINAL PAVEMENT MARKINGS SHALL BE PLACED IN ACCORDANCE WITH TC-13 "DISTRICT ONE TYPICAL PAVEMENT MARKINGS" STANDARD DETAIL.
4. ALL RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH TC-11 "TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)" STANDARD DETAIL.
5. ALL RAISED REFLECTIVE PAVEMENT MARKERS WITHIN BRIDGE LIMITS SHALL BE REMOVED AND NOT REPLACED.

MODEL: P:\p\inf\...  
 FILE NAME: \C:\USERS\...  
 PROJECT: ...  
 SHEET: ...

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CHECKED - ACL	REVISOR -	
DATE - 12/09/2024	REVISOR -	

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DRAWN - ART	REVISOR -
CHECKED - ACL	REVISOR -
DATE - 12/09/2024	REVISOR -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING PLAN  
WESTERN AVENUE OVER THORN CREEK**

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

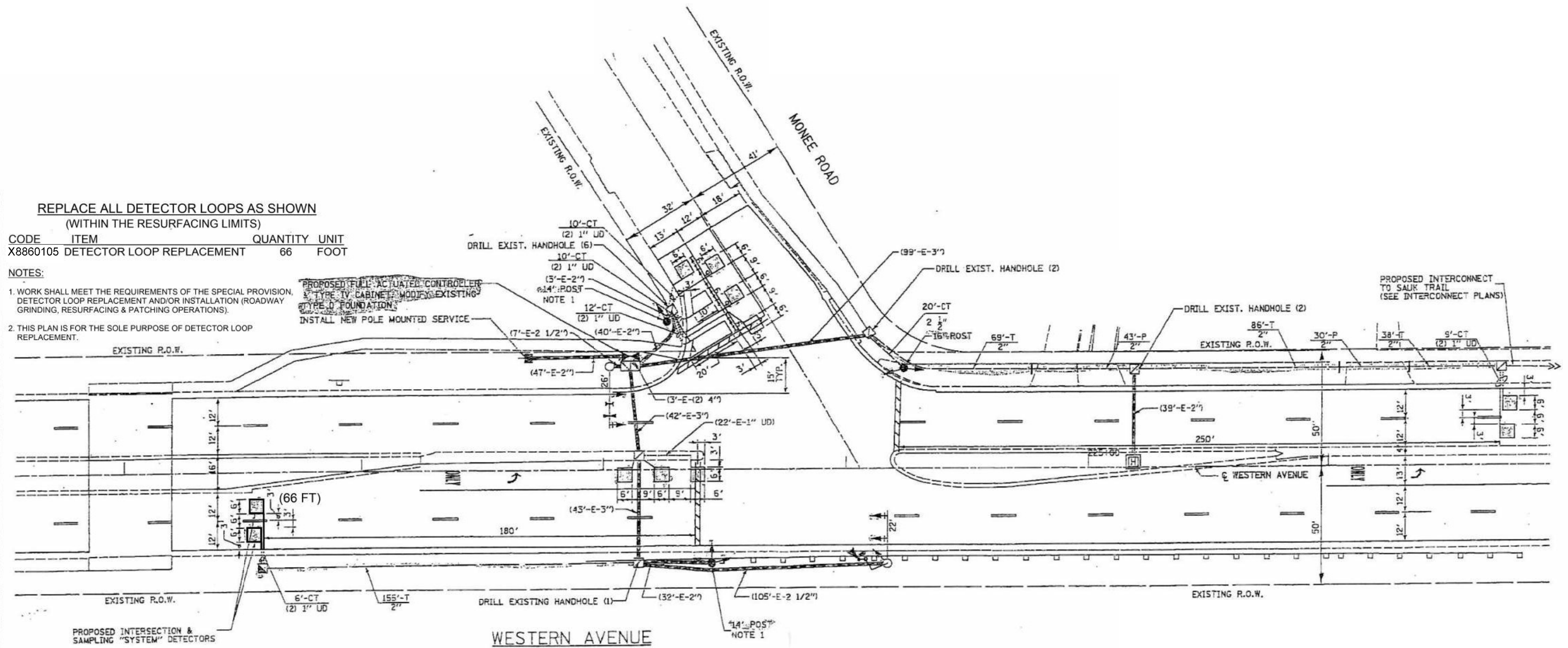
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2845	FAU 2845 22 BJ	COOK	35	9
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62T48	

**REPLACE ALL DETECTOR LOOPS AS SHOWN  
(WITHIN THE RESURFACING LIMITS)**

CODE	ITEM	QUANTITY	UNIT
X8860105	DETECTOR LOOP REPLACEMENT	66	FOOT

**NOTES:**

1. WORK SHALL MEET THE REQUIREMENTS OF THE SPECIAL PROVISION, DETECTOR LOOP REPLACEMENT AND/OR INSTALLATION (ROADWAY GRINDING, RESURFACING & PATCHING OPERATIONS).
2. THIS PLAN IS FOR THE SOLE PURPOSE OF DETECTOR LOOP REPLACEMENT.



MODEL Path: \\... \Projects\2024\2845-00\DOT\_Vis\Phase 2 (PTB\_2024-002)\1100\_07\_5271481\DOT\CADD\_Sheets\2845-00\2845-00.dgn  
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<p><b>INFRASTRUCTURE ENGINEERING</b> 1 South Wacker   Suite 2650   Chicago, IL 60606 P 312.425.9598   F 312.425.9594   www.infrastructure-eng.com</p>	USER NAME = Alane	DESIGNED - ART	REVISED -
	PLOT SCALE = 20,0000 * / in.	DRAWN - ART	REVISED -
	PLOT DATE = 12/9/2024	CHECKED - ACL	REVISED -
		DATE - 12/09/2024	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

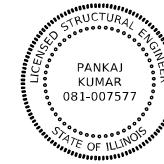
<b>DETECTOR LOOP REPLACEMENT PLAN WESTERN AVENUE OVER THORN CREEK</b>	
SCALE:	SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2845	FAU 2845 22 BJ	COOK	35	10
CONTRACT NO. 62T48			ILLINOIS FED. AID PROJECT	

Existing Structure: SN 016-2415 was built as FAU 2845, Section 49EXT-R at Sta. 221+08.50 in 1982. Superstructures consist of a one span CIP concrete slab. Substructures consist of spread footing supported closed abutments. Length is 36'-0" back-to-back abutments. Out-to-out deck width is 80'-0".

Traffic will be maintained using Stage Construction.

No Salvage.

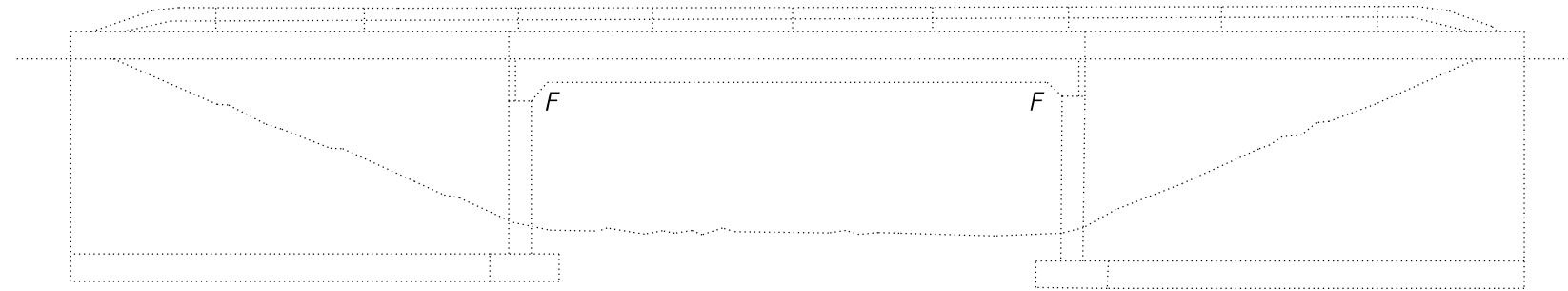


Pankaj Kumar

PANKAJ KUMAR, S.E.  
NO. 081-007577  
EXP. DATE: 11/30/2024

**INDEX OF SHEETS**

1. General Plan and Elevation
2. General Notes, Scope of Work, & Bill of Materials
3. Stage Construction Details
4. Temporary Concrete Barrier For Stage Construction
5. Deck Repair and Removal
6. Deck Alterations
7. Approach Pavement Repair and Alterations
8. Abutment Repair



**ELEVATION**  
(Looking West)

**DESIGN STRESSES**

**New Construction**

$f'_c = 4,000$  psi (Superstructure Concrete)  
 $f_y = 60,000$  psi (Reinforcement)

**Existing Construction**

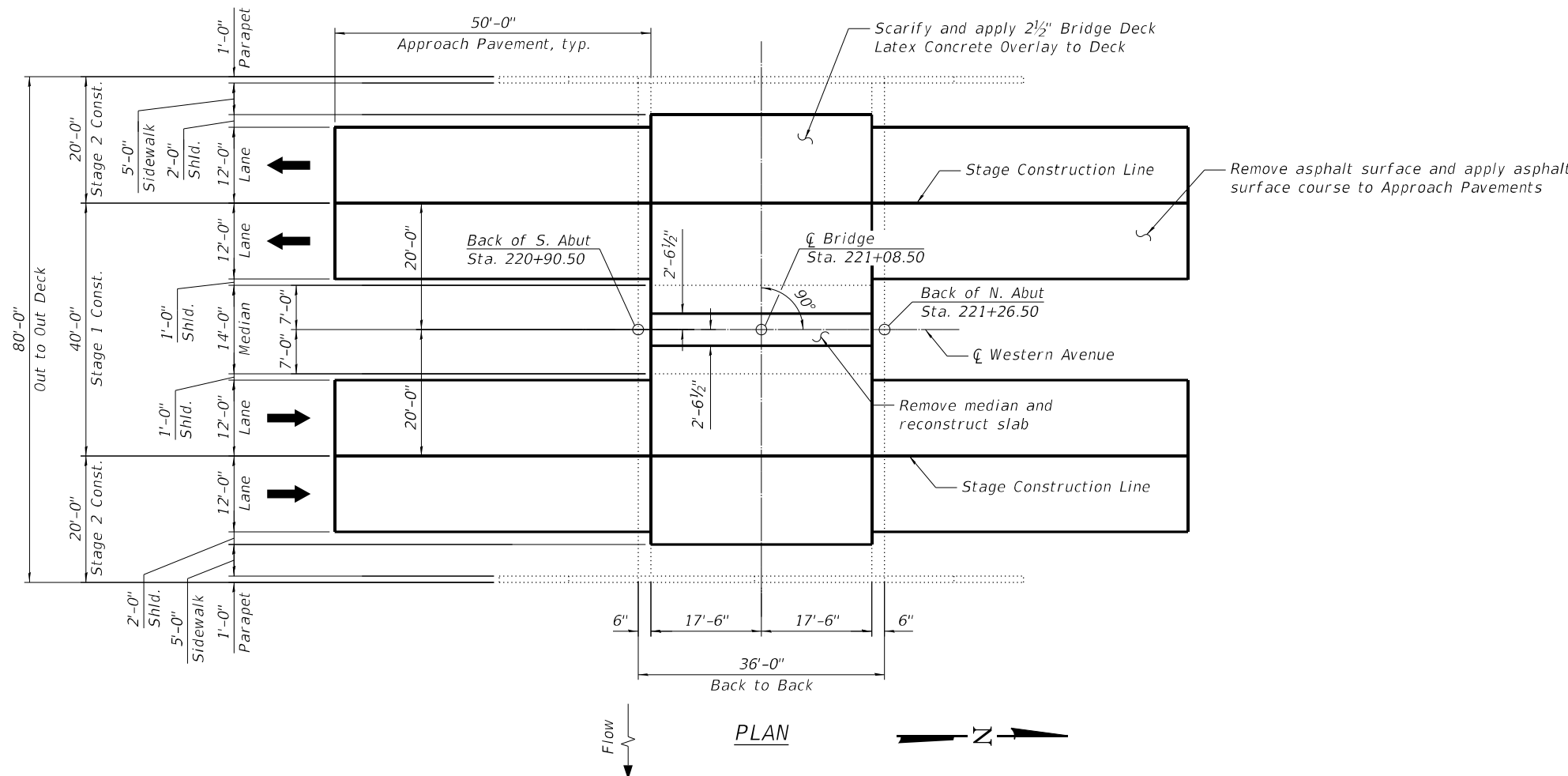
$f'_c = 3,500$  psi (Concrete)  
 $f_y = 60,000$  psi (Reinforcement)

**DESIGN SPECIFICATIONS**

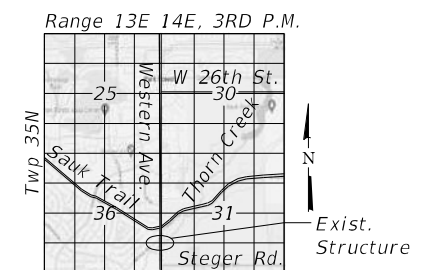
2002 AASHTO Standard Specifications for Highway Bridges (17th Edition)

**LOADING HS20-44**

No future wearing surface allowed



**PLAN**



**LOCATION SKETCH**

**GENERAL PLAN AND ELEVATION**  
**WESTERN AVENUE OVER THORN CREEK**  
**FAU 2845 SECTION FAU 2845 22 BJ**  
**COOK COUNTY**  
**STATION 221+08.50**  
**STRUCTURE NO. 016-2415**

MODEL: P:\6248\1\DOT\_Verbose\_Phase 2 (T)B\_206-002\1\WO 07 6374\BID\CONCADD\_Sheets\6248-22 BJ-01\_CIP.dgn

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PLOT DATE = 12/9/2024	DRAWN - TY	REVISED -
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

F.A.U. RTE. 2845	SECTION FAU 2845 22 BJ	COUNTY COOK	TOTAL SHEETS 35	SHEET NO. 11
------------------	------------------------	-------------	-----------------	--------------

CONTRACT NO. 62T48	
ILLINOIS FED. AID PROJECT	

SCOPE OF WORK

- 1. Perform 1" bridge deck scarification on the bridge deck and 3" bridge deck scarification on the median.
2. Remove asphalt wearing surface on the approach pavements.
3. Perform deck slab, sidewalk, and approach pavement repair as required.
4. Apply 2 1/2" bridge deck latex concrete overlay on the bridge deck.
5. Apply surface course on the approach pavements.
6. Remove the median and longitudinal joint in the bridge deck and reconstruct the removed portion of the slab.
7. Perform bridge deck grooving on the bridge deck.
8. Apply protective coat to the top of the deck.
9. Perform structural repair of concrete on the abutments and parapets.

TOTAL BILL OF MATERIAL

Table with 5 columns: ITEM, UNIT, SUPER, SUB, TOTAL. Rows include: Hot-Mix Asphalt Surface Course, Concrete Removal, Concrete Superstructure, Bridge Deck Grooving, Protective Coat, Reinforcement Bars, Epoxy Coated, Repair Bridge Rail, Approach Slab Repair (Full Depth), Approach Slab Repair (Partial Depth), Hot-Mix Asphalt Surface Removal (Deck), Bridge Deck Latex Concrete Overlay, Bridge Deck Scarification (1" and 3"), Structural Repair of Concrete, Deck Slab Repair.

\* Quantity is for the top of bridge slab

GENERAL NOTES

- 1. Reinforcement bars designated (E) shall be epoxy coated.
2. Plan dimensions and details relative to the existing structure have been taken from existing plans and are subject to nominal construction variations.
3. Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose detrimental foreign material shall be removed from the surfaces in contact with concrete.
4. Existing reinforcement bars extending into the removal area shall be cleaned, straightened, and incorporated into the new construction.

MODEL Path: \\... FILE NAME: P:\... 2/2/22:22:48:75:500 IDOT Various Phase 2 ITRB 206-0021\WO 07 63T4E1BDCN\CADD\_Sheets\62T48-phs-STB-09\_ConNotes.dgn



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USER NAME = TYU CHECKED - PK DESIGNED - TY REVISIONS - REVISIONS - DRAWN - TY REVISIONS - CHECKED - PK PLOT DATE = 1/27/2025

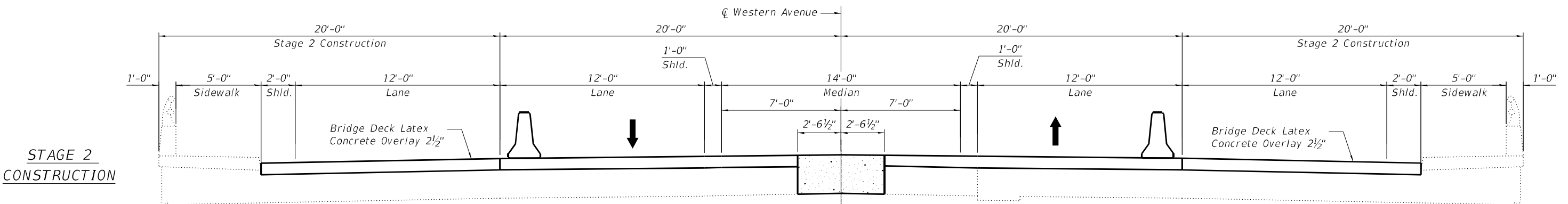
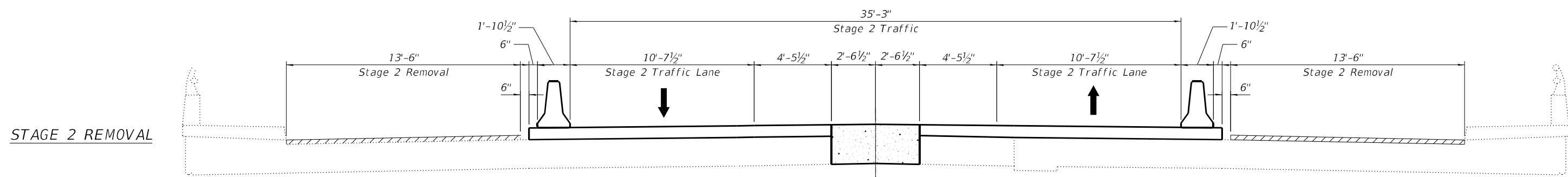
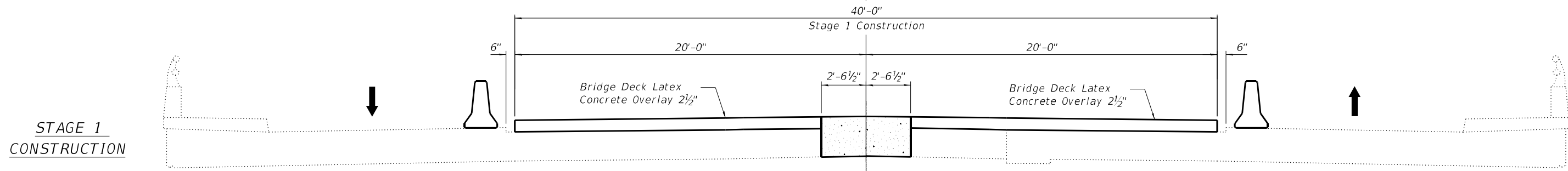
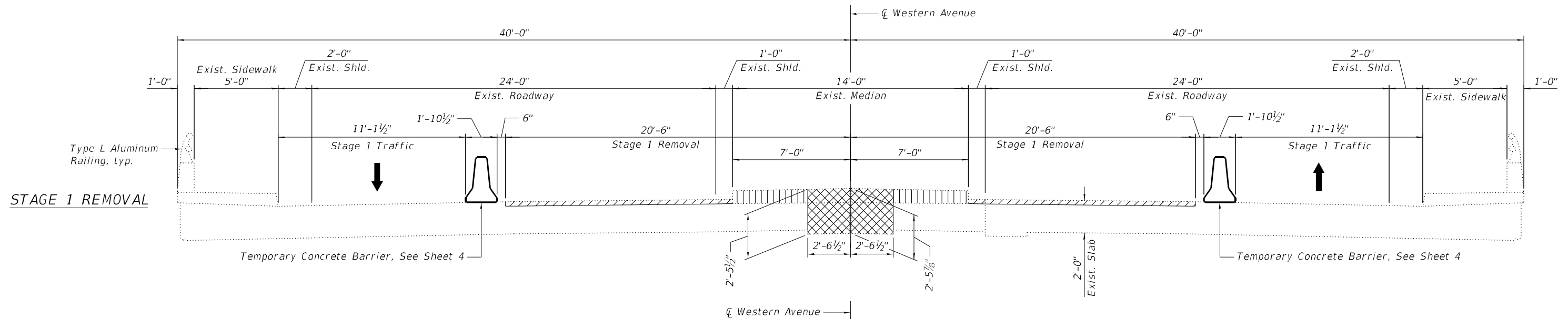
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

GENERAL NOTES, SCOPE OF WORK, & BILL OF MATERIAL STRUCTURE NO. 016-2415

SHEET 2 OF 9 SHEETS

Table with 6 columns: F.A.U. RTE., SECTION, COUNTY, TOTAL SHEETS, SHEET NO., CONTRACT NO. Values: 2845, FAU 2845 22 BJ, COOK, 35, 12, 62T48

ILLINOIS FED. AID PROJECT



**LEGEND**

- Bridge Deck Scarification 1"
- Bridge Deck Scarification 3"
- Concrete Removal

**NOTES**

1. Looking north for all sections
2. For quantity of Temporary Concrete Barriers, see roadway plans.

MODEL Path: \\p01\infrastructure\Phase 2 (ITB) 206-002\1\07 6374\BID\CADD\_Sheets\62748-Str-03\_S2.dwg  
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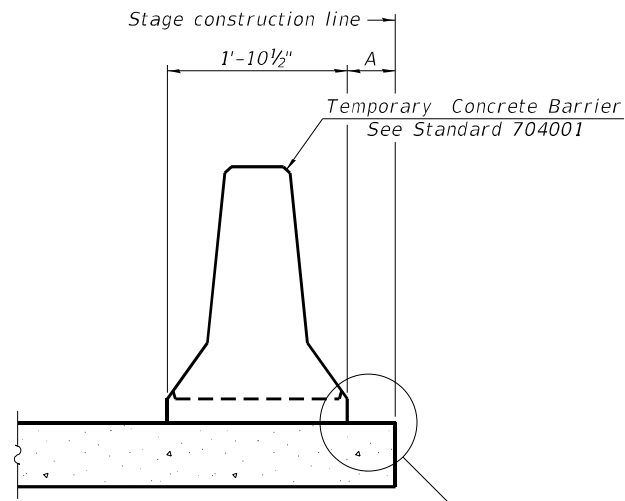
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PLOT DATE = 12/9/2024	DRAWN - TY	REVISED -
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**STAGE CONSTRUCTION DETAILS  
STRUCTURE NO. 016-2415**

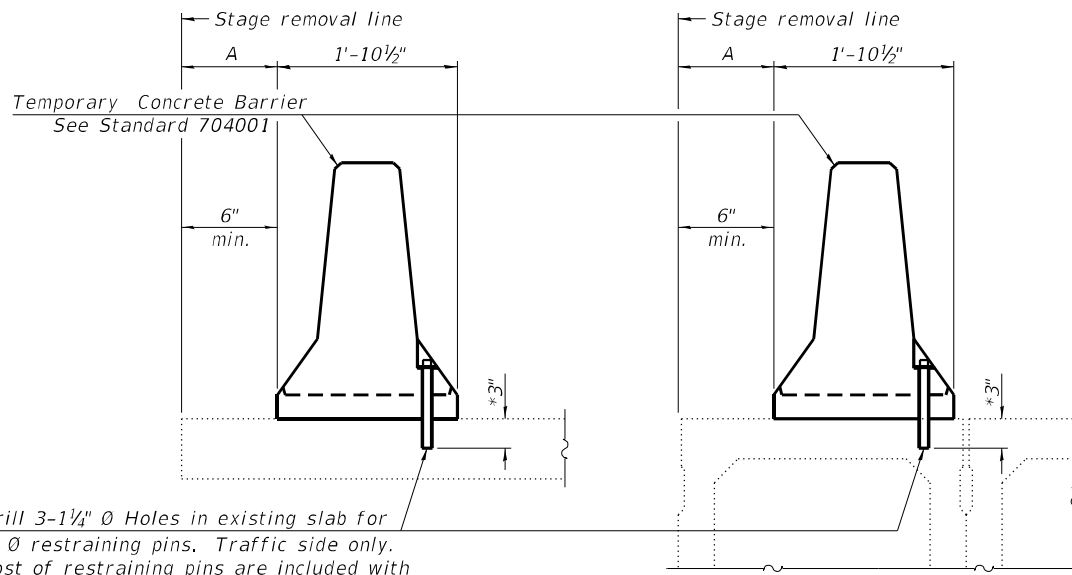
SHEET 3 OF 9 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2845	FAU 2845 22 BJ	COOK	35	13
CONTRACT NO. 62T48				
ILLINOIS FED. AID PROJECT				



When "A" is 3'-1" or less, the temporary concrete barrier shall be restrained to the new slab according to Detail I, II or III. No restraint is required when "A" is greater than 3'-1". See Detail I, II or III

NEW SLAB OR NEW DECK BEAM



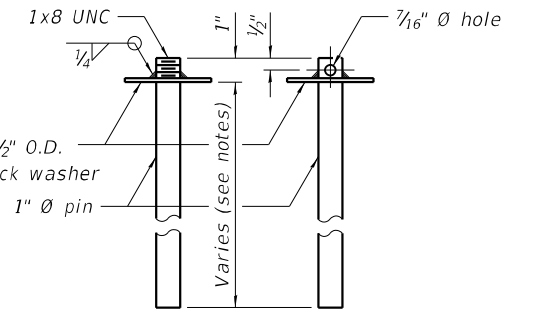
Drill 3-1 1/4" Ø Holes in existing slab for 1" Ø restraining pins. Traffic side only. Cost of restraining pins are included with Temporary Concrete Barrier. No restraint is required when "A" is greater than 3'-1".

EXISTING SLAB

\* When hot-mix asphalt wearing surface is present, embedment shall be 3" plus the wearing surface depth.

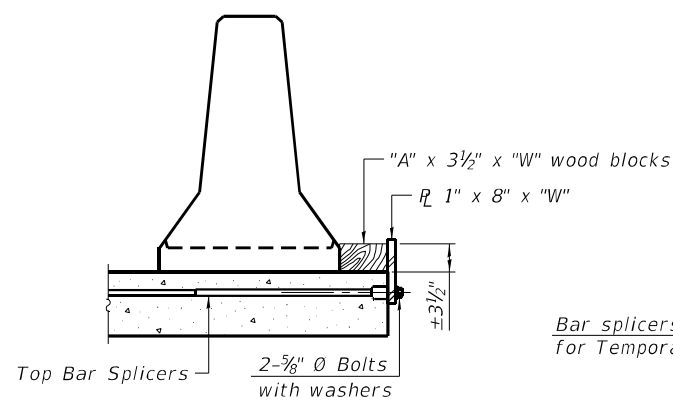
EXISTING DECK BEAM

SECTIONS THRU SLAB OR DECK BEAM

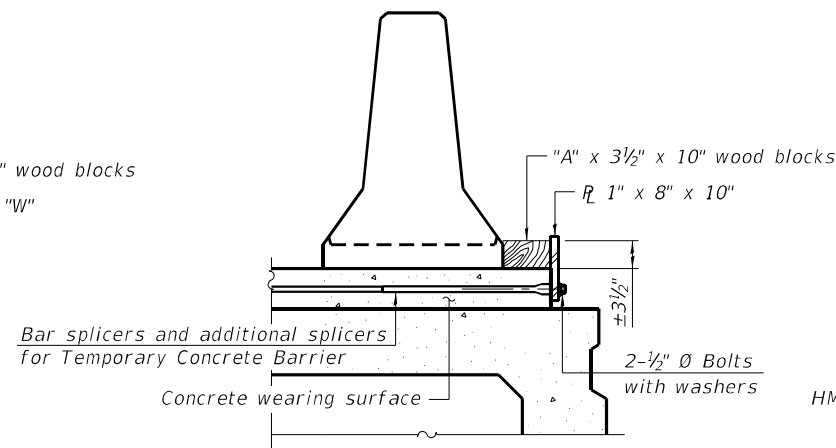


RESTRAINING PIN

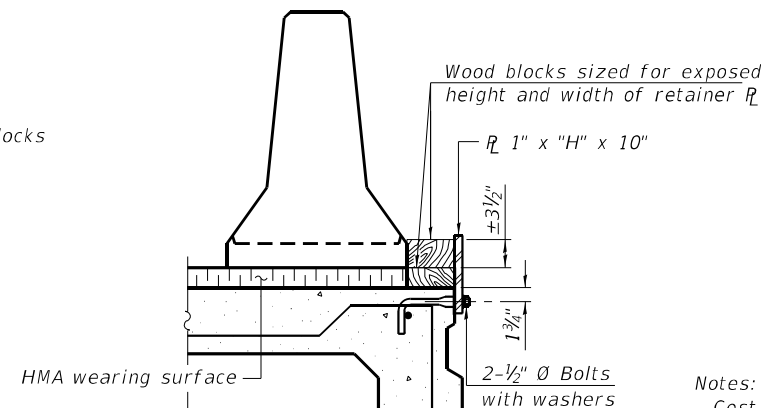
US Std. 1 1/16" I.D. x 2 1/2" O.D. x approx. 8 gauge thick washer  
1" Ø pin  
Varies (see notes)



DETAIL I



DETAIL II



DETAIL III

BAR SPLICER FOR #4 BAR - DETAIL III

Notes:

Cost of retainer assembly is included with Temporary Concrete Barrier. A retainer assembly shall be located at the approximate □ of each temporary concrete barrier.

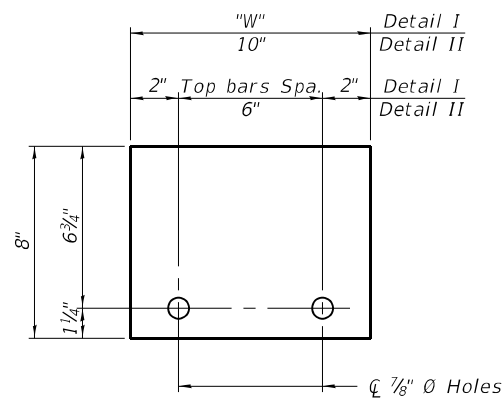
The retainer plate shall not be removed until the concrete on the adjacent stage is ready to be poured. For Detail III applications the retainer plate shall not be removed until just prior to placing the adjacent beam.

When the 'A' dimension is less than 1 1/2", the wood block shall be omitted and the barrier shall be placed in direct contact with the steel retainer plate. For deck beam applications the minimum required 'A' distance is 6" to accommodate the shear key clamping device.

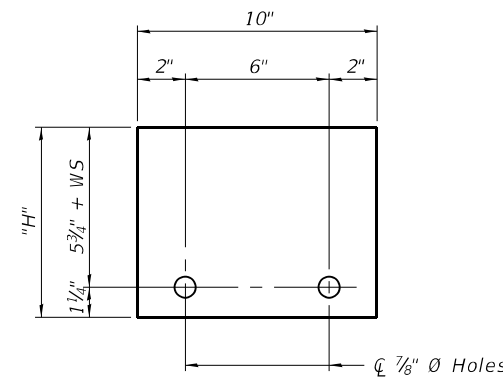
Detail I - Installation for a new bridge deck or bridge slab.

Detail II - Installation for a new deck beam with an initial concrete wearing surface. Additional bar splicers shall be provided at 6'-0" centers and paired with the bar splicers of the concrete wearing surface reinforcement to accommodate the installation of the retainer assemblies. The cost of the additional bar splicers is included with the concrete wearing surface.

Detail III - Installation for a new deck beam with no initial wearing surface or with an initial hot-mix asphalt (HMA) wearing surface present. The deck beam directly beneath the temporary concrete barrier shall be fabricated with bar splicer inserts in the side of the beam, as detailed, to accommodate the installation of the retainer assemblies. A pair of bar splicers, 6" apart, shall be placed at 6'-0" centers along the length of the beam. The cost of the bar splicers is included with the deck beam.



STEEL RETAINER R 1" x 8" x "W" (Detail I and II)



STEEL RETAINER R 1" x "H" x 10" (Detail III)

RAILING CRITERIA

NCHRP 350 Test Level	3
Railing Weight (plf)	440

R-27

5-15-2023

MODEL Path: I:\Projects\2022\22-222-4675-00\_IDOT\_Various\_Phase\_2\ITPB\_206-002\1\WO\_07\_6374\BID\CONCADD\_Sheets\62748-218-218-04\_TCB.dgn

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PLOT DATE = 12/9/2024	DRAWN - TY	REVISD -
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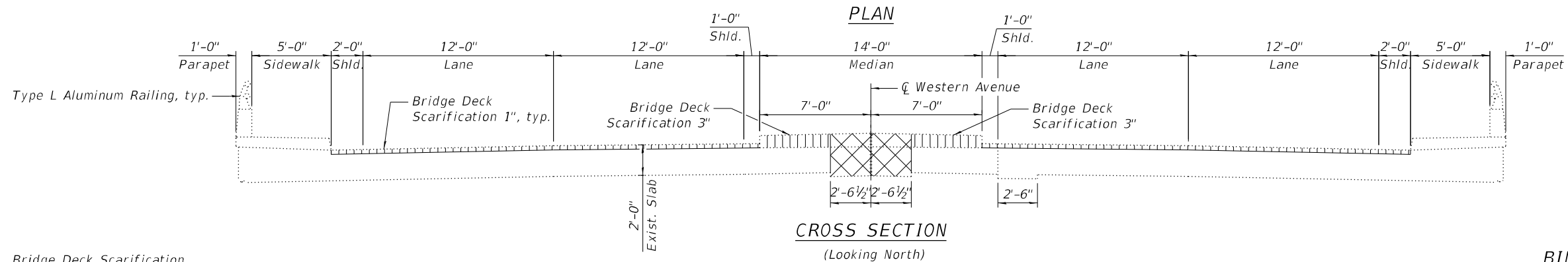
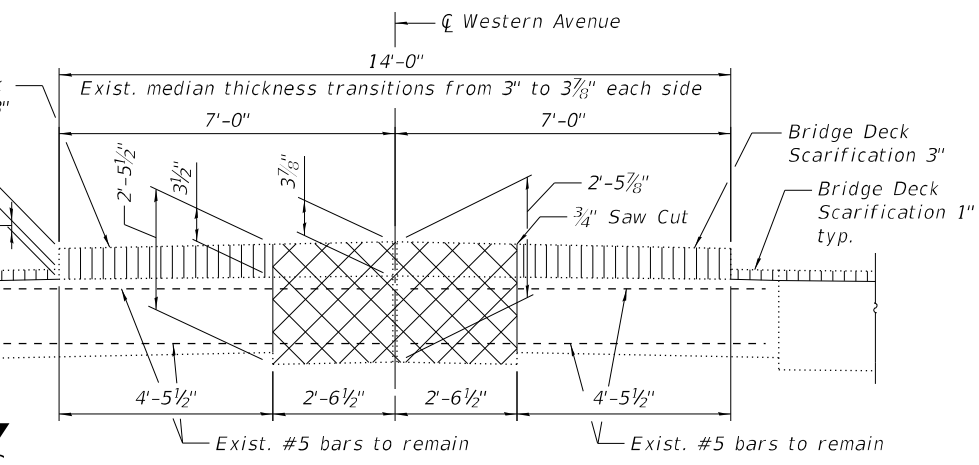
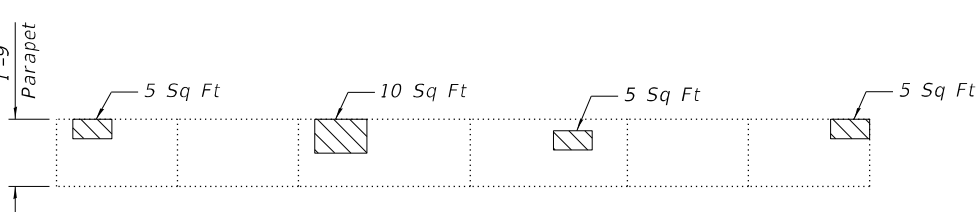
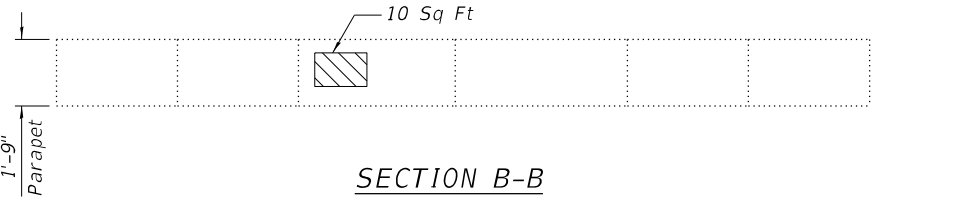
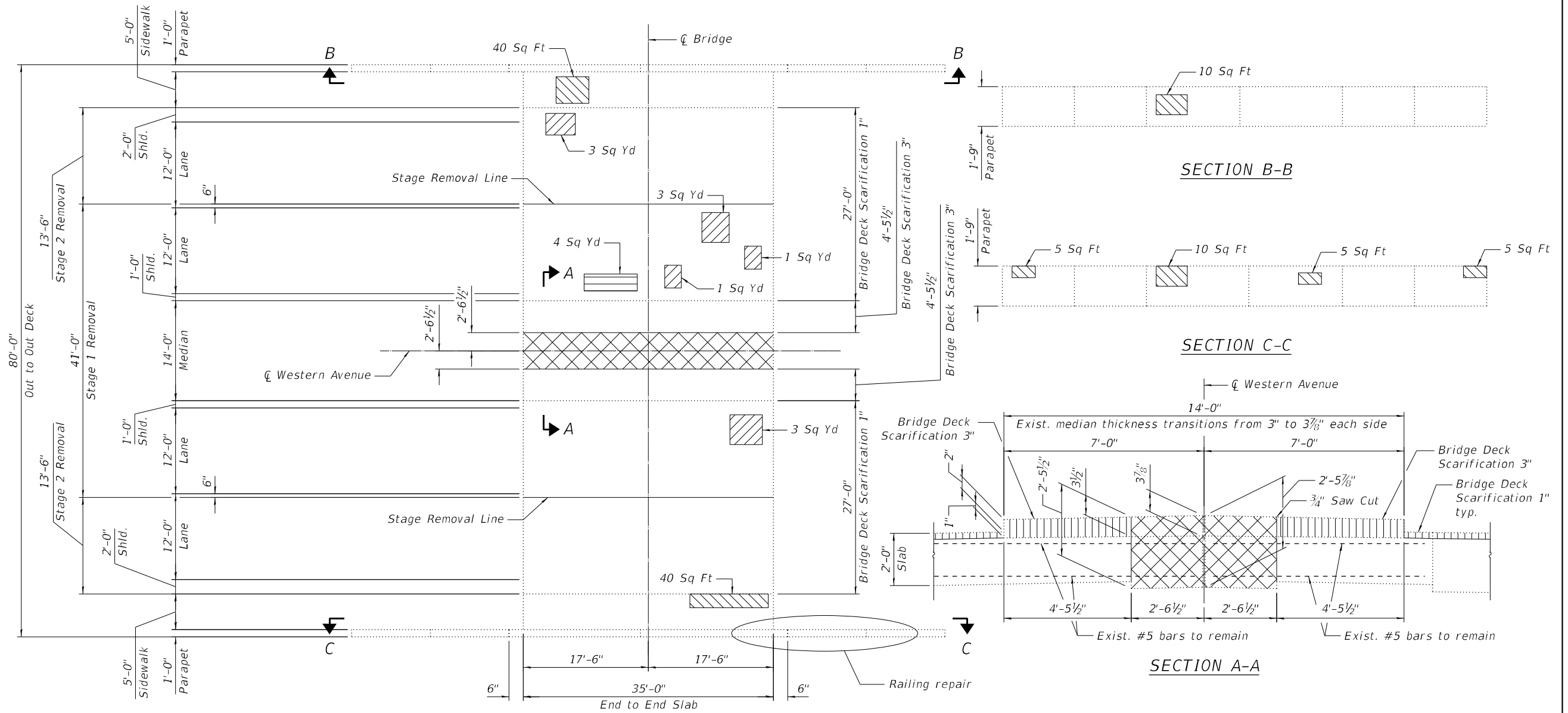
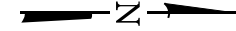
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION  
STRUCTURE NO. 016-2415**

SHEET 4 OF 9 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2845	FAU 2845 22 BJ	COOK	35	14
CONTRACT NO. 62T48				

ILLINOIS FED. AID PROJECT



**LEGEND**

- Bridge Deck Scarification
- Deck Slab Repair (Partial Depth)
- Structural Repair of Concrete (Depth Equal To Or Less Than 5 Inches)
- Deck Slab Repair (Full Depth)
- Concrete Removal

**NOTES**

1. Quantity and limits of Deck Slab Repairs and Structural Repair of Concrete shown herein are estimated from a survey completed by the District. Actual limits shall be determined in the field by the Engineer and noted in the As-Built Plans.
2. Areas of Deck Slab Repair (Partial Depth) are provide for information only and shall be included in the cost of Bridge Deck Latex Concrete Overlay, 2 1/2".
3. For railing repair details, see Sheet 7 of 9.

**BILL OF MATERIAL**

ITEM	UNIT	TOTAL
Concrete Removal	Cu Yd	16.9
Bridge Deck Scarification, 1"	Sq Yd	210
Bridge Deck Scarification, 3"	Sq Yd	35
Structural Repair of Concrete (Depth Equal To Or Less Than 5 Inches)	Sq Ft	115
Deck Slab Repair (Full Depth, Type II)	Sq Yd	4

MODEL Path: \\... INFRASTRUCTURE Phase 2 (ITB 206-002) \WO 07 63741BDCN\CADD\_Sheets\637418-Str-518-06\_DeckRepA.dgn

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PLOT SCALE =	CHECKED - PK	REVISIONS
PLOT DATE = 12/9/2024	DRAWN - TY	REVISIONS
	CHECKED - PK	REVISIONS

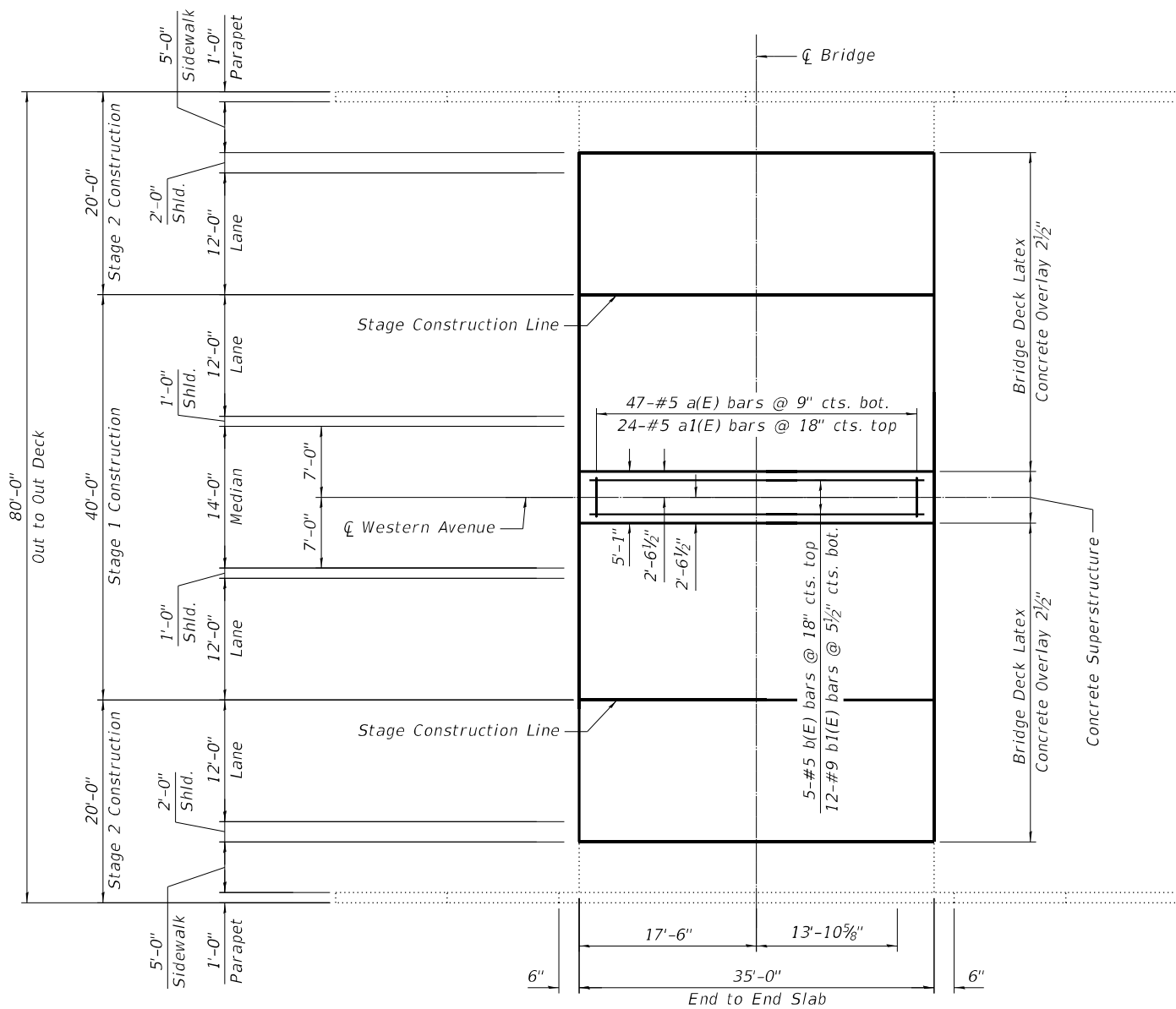
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CHECKED - PK	REVISIONS

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

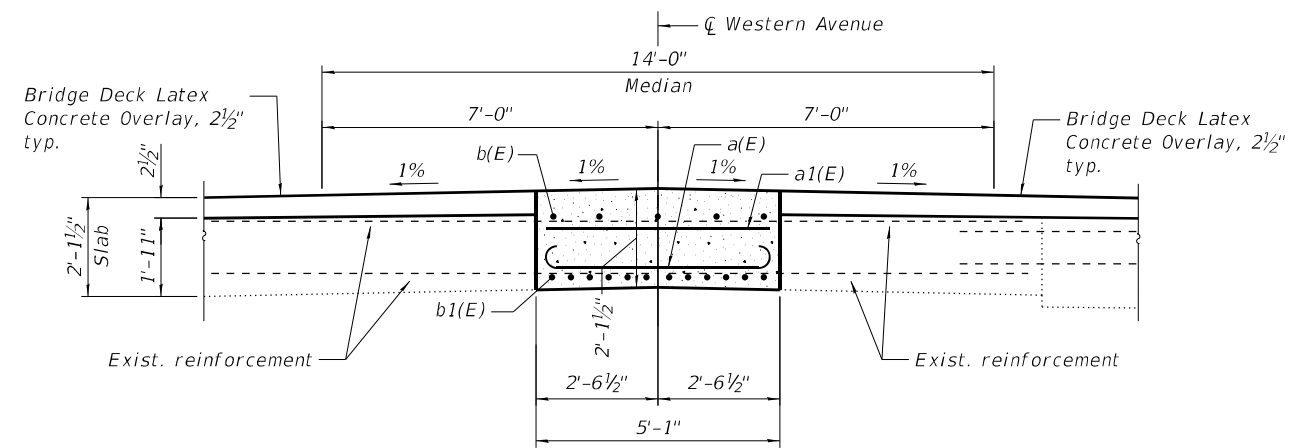
**DECK REPAIR AND REMOVAL  
STRUCTURE NO. 016-2415**

SHEET 5 OF 9 SHEETS

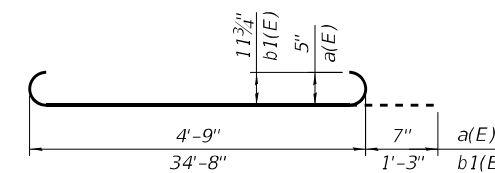
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2845	FAU 2845 22 BJ	COOK	35	15
CONTRACT NO. 62T48			ILLINOIS FED. AID PROJECT	



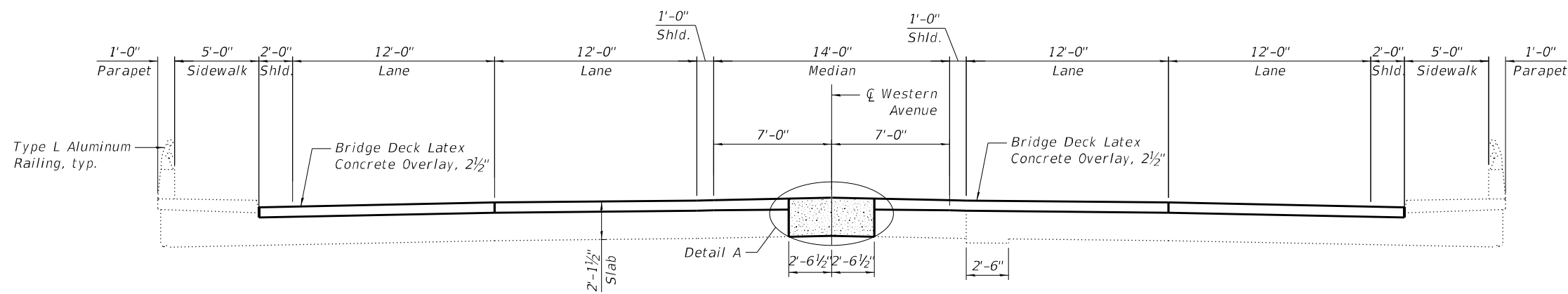
**PLAN**



**DETAIL A**



**BARS a(E) & b1(E)**



**CROSS SECTION**  
(Looking North)

**NOTE**

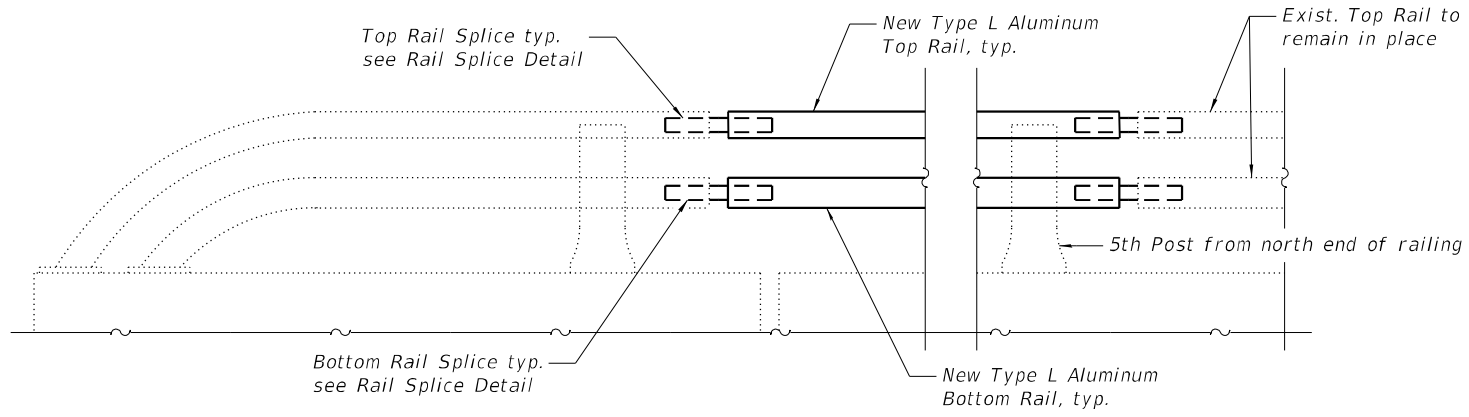
- 1. Protective Coat shall be applied to the new concrete areas.

**BILL OF MATERIAL**

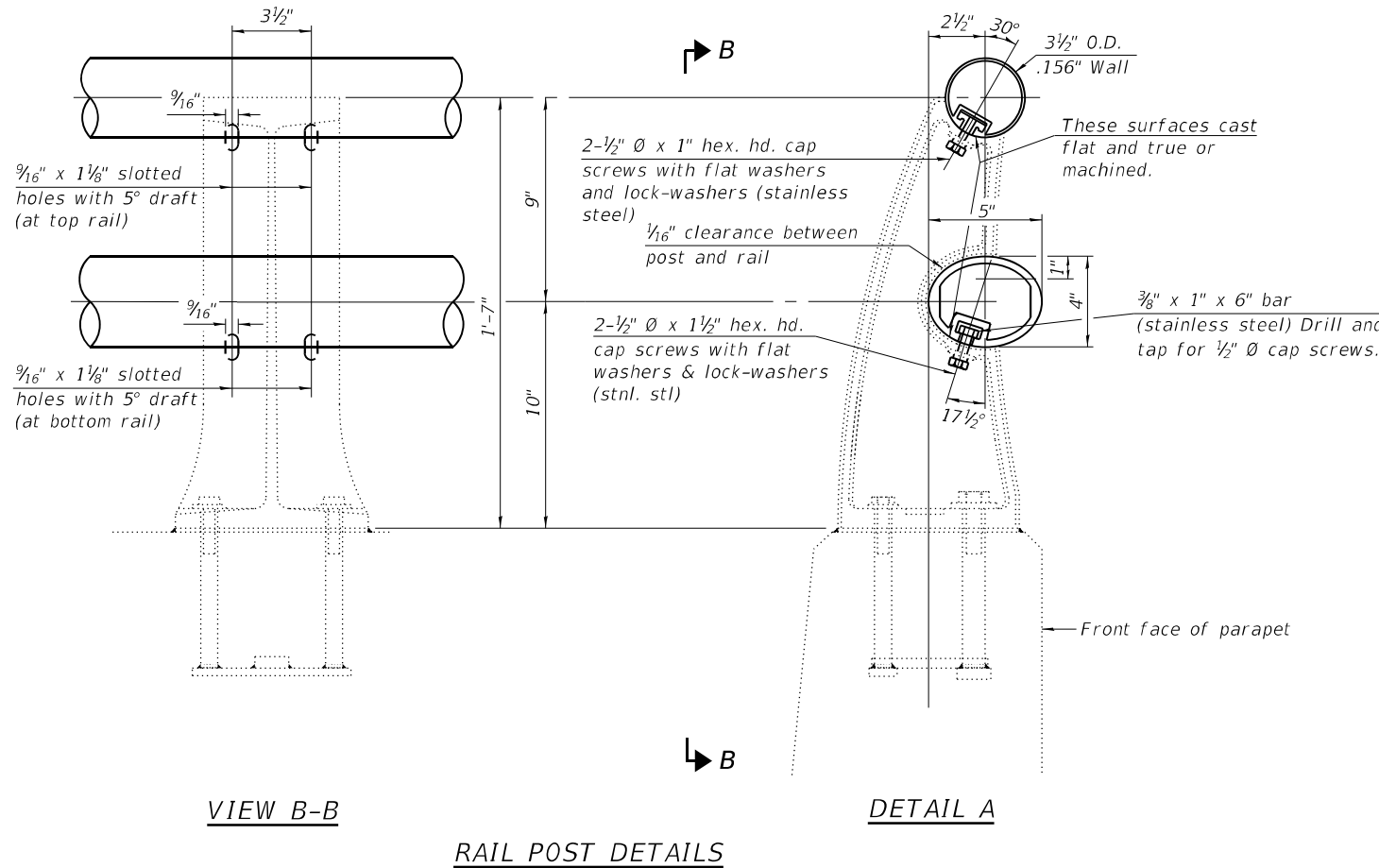
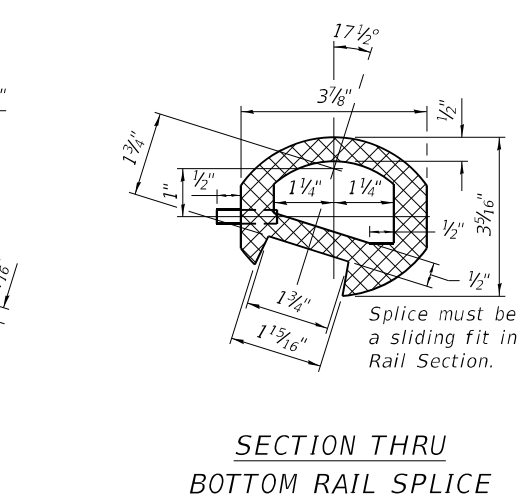
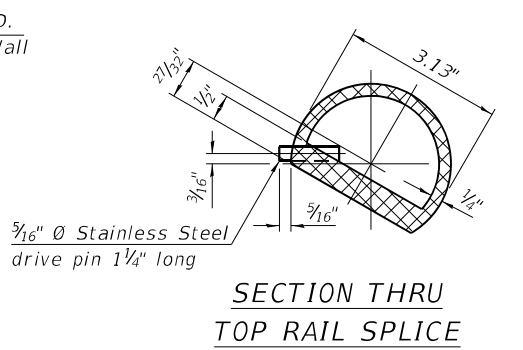
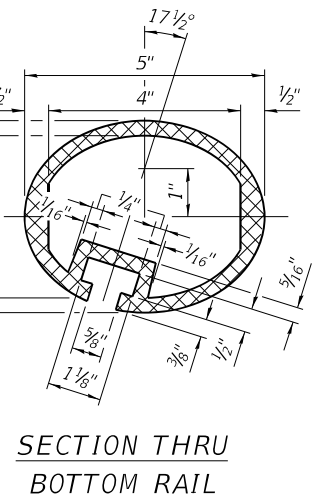
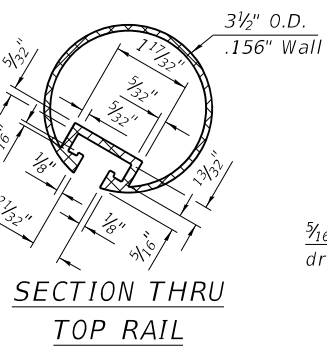
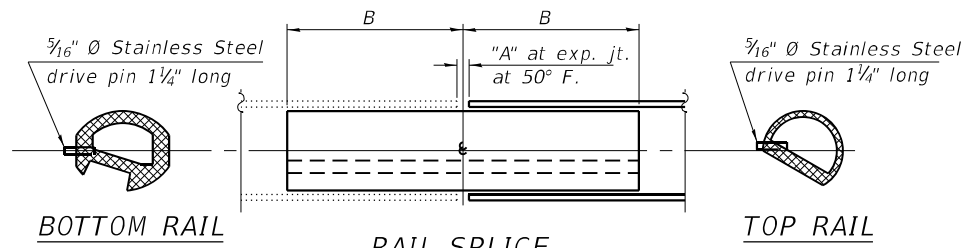
Bar	No.	Size	Length	Shape
a(E)	47	#5	5'-11"	U
a1(E)	24	#5	4'-9"	I
b(E)	5	#5	34'-8"	I
b1(E)	12	#9	37'-2"	U
Concrete Superstructure			Cu Yd	14.0
Bridge Deck Grooving			Sq Yd	257
Protective Coat			Sq Yd	265
Reinforcement Bars, Epoxy Coated			Pound	2,110
Bridge Deck Latex Concrete Overlay, 2 1/2"			Sq Yd	245

MODEL Path: \\p12011\work\2022\22222222\DOT\_Vehicles\_Phase 2 (FTR)\_BID\CONCADD\_Sheets\B748-248-STR-06\_DeckRepB.dgn  
 FILE NAME: P:\22222222\DOT\_Vehicles\_Phase 2 (FTR)\_BID\CONCADD\_Sheets\B748-248-STR-06\_DeckRepB.dgn





**EAST RAILING ELEVATION**  
(Looking East)



**RAIL POST DETAILS**

**SPLICE DIMENSIONS**

Location	T	A	B
All locs. not over exp. jts.	0	3/8"	1'-2"
Over Strip Seal Jt.	≤4"	2 1/2"	1'-2"

T = total movement along centerline of roadway at expansion joint.

**BILL OF MATERIAL**

Pay Item	Unit	Quantity
Repair Bridge Rail	Foot	34

**NOTE**

- Cost of removal of existing railing and reinstallation as required to install splice included with Repair Bridge Rail.
- Aluminum alloy extruded rail shall be according to ASTM B 221 (B 221M), Alloy 6061-T6 with a minimum yield of 35,000 psi (250,000 kPa), a minimum tensile strength of 38,000 psi (262,000 kPa), and an elongation of ten percent in 2 in. (50mm).

MODEL: P:\d\p\inf\... FILE NAME: P:\22\2222\2222\DOT\_V\rdos Phase 2 (RFB)\_206-002\1\WO 07\_63T\FIDON\CADD\_Sheets\62T48-Str-06A-Railing.dgn

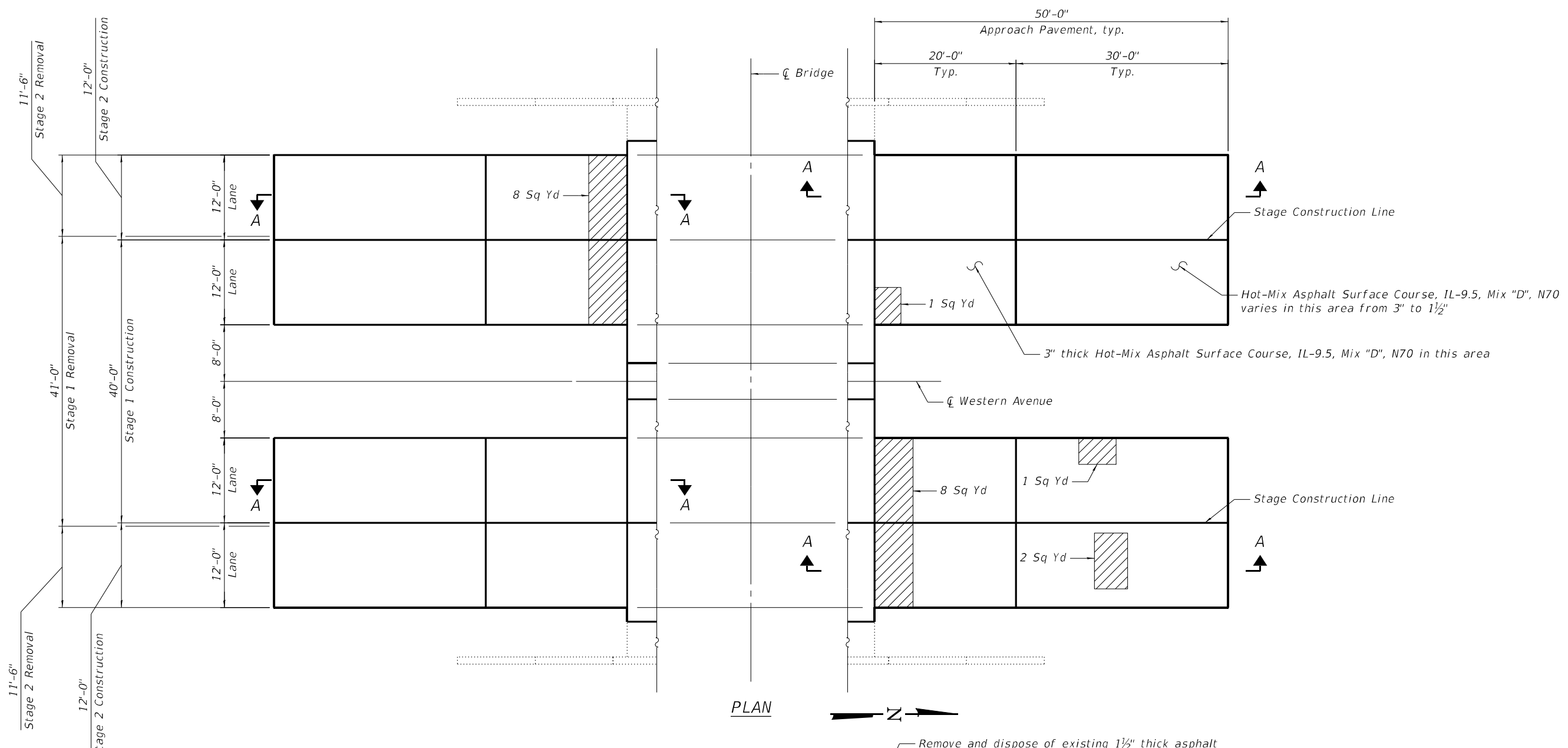
<p><b>INFRASTRUCTURE ENGINEERING</b> 1 South Wacker   Suite 2650   Chicago, IL 60606 P 312.425.9598   F 312.425.9594   www.infrastructure-eng.com</p>	USER NAME = Alane	DESIGNED - TY	REVISED -
	PLOT SCALE =	CHECKED - PK	REVISED -
	PLOT DATE = 12/9/2024	DRAWN - TY	REVISED -
		CHECKED - PK	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

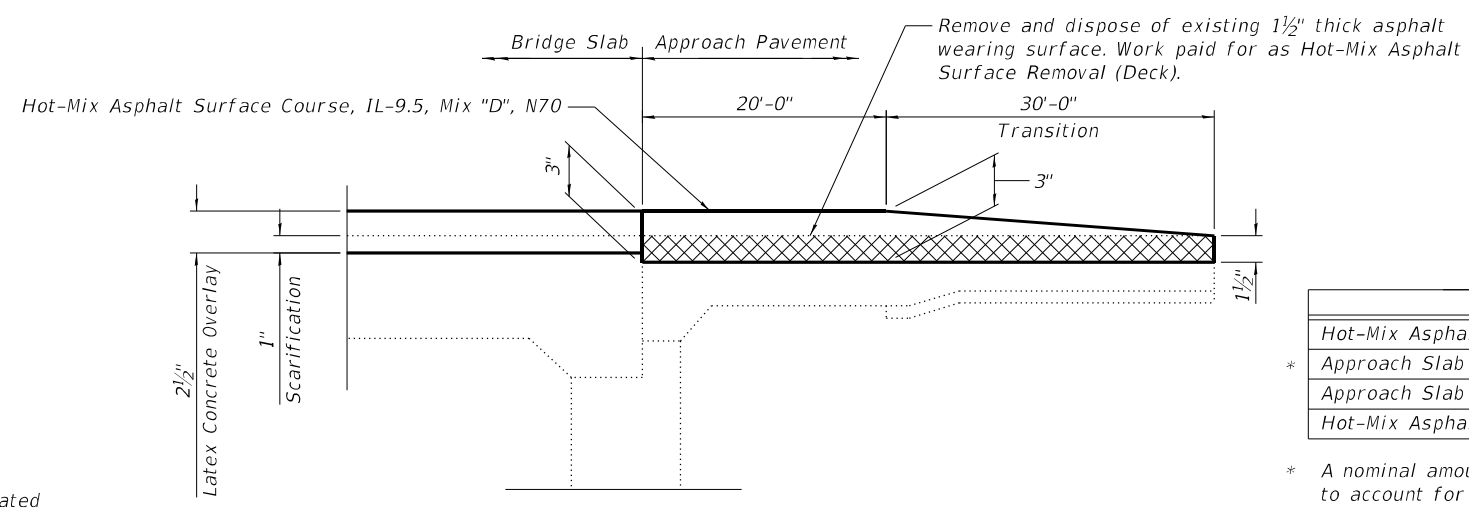
**BRIDGE RAILING REPAIRS  
STRUCTURE NO. 016-2415**

SHEET 7 OF 9 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2845	FAU 2845 22 BJ	COOK	35	17
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62T48	



PLAN



SECTION A-A

**LEGEND**

- Approach Slab Repair (Partial Depth)
- Exist. 1 1/2" thick asphalt wearing surface

**NOTE**

1. Quantity and limits of Approach Slab Repairs shown herein are estimated from a survey completed by the District. Actual limits shall be determined in the field by the Engineer and noted in the As-Built Plans.

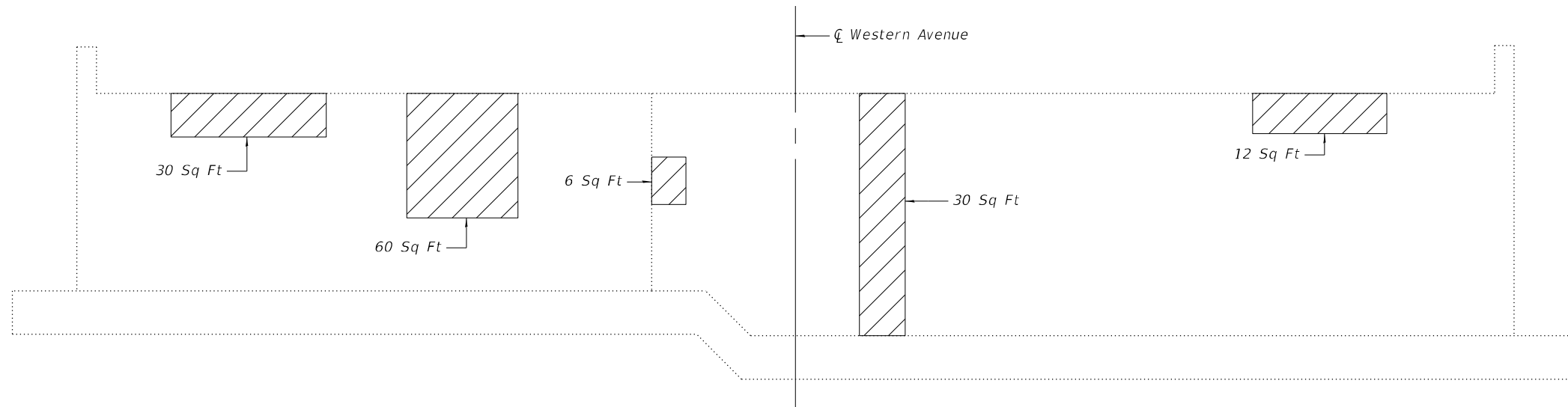
**BILL OF MATERIAL \*\***

ITEM	UNIT	TOTAL
Hot-Mix Asphalt Surface Course, IL-9.5, Mix "D", N70	Ton	76
* Approach Slab Repair (Full Depth)	Sq Yd	1
Approach Slab Repair (Partial Depth)	Sq Yd	20
Hot-Mix Asphalt Surface Removal (Deck)	Sq Yd	534

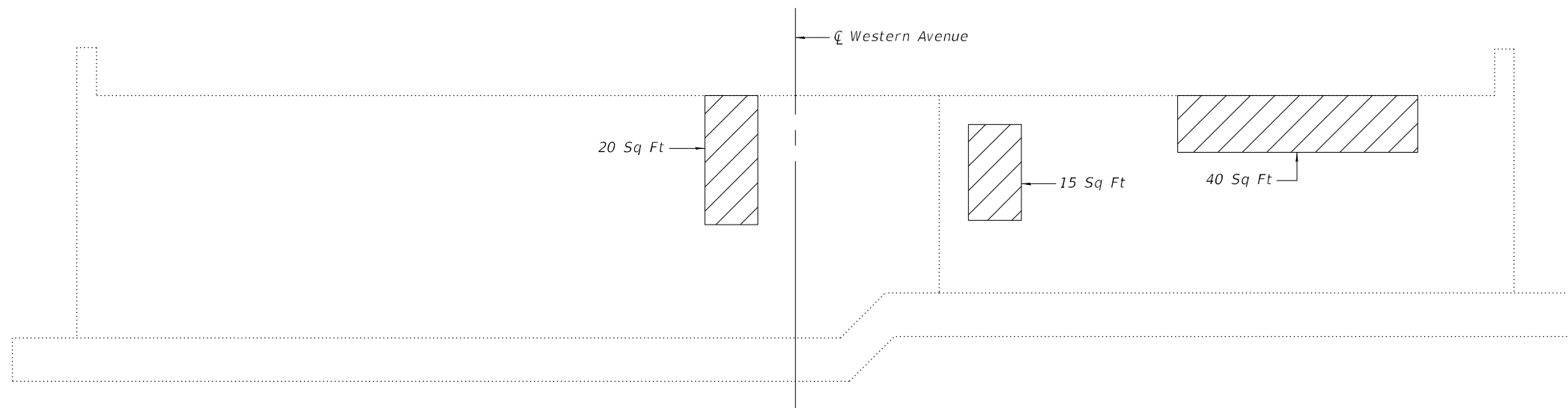
\* A nominal amount of additional full depth repair quantities have been provided to account for repairs not shown. Actual repair areas shall be determined in the field by the Engineer at the time of construction.

\*\* Includes all approach pavements

MODEL: P:\646\11... FILE NAME: P:\646\11... Phase 2 (ITB\_206-002)\1107\_637\1107\CONCADD\_Sheets\62748-218-218-07\_SuppRef.dgn



**ELEVATION - SOUTH ABUTMENT**  
(Looking South)



**ELEVATION - NORTH ABUTMENT**  
(Looking North)

**LEGEND**

 Structural Repair of Concrete  
(Depth Equal To Or Less Than 5 Inches)

**NOTE**

- Quantity and limits of Structural Repair of Concrete shown herein are estimated from a survey completed by the District. Actual limits shall be determined in the field by the Engineer and noted in the As-Built Plans.

**BILL OF MATERIAL**

ITEM	UNIT	TOTAL
Structural Repair of Concrete (Depth Equal To Or Less Than 5 Inches)	Sq Ft	213

MODEL: P:\6248\1\001\DOT\Various Phase 2 (ITB\_206-002)\WO 07 62T48\CONCADD\_Sheets\62T48-struct-08\_abutRep.dgn



APPROVED  DISAPPROVED

APPROVED AS NOTED

BY SPD DATE 4-17-09

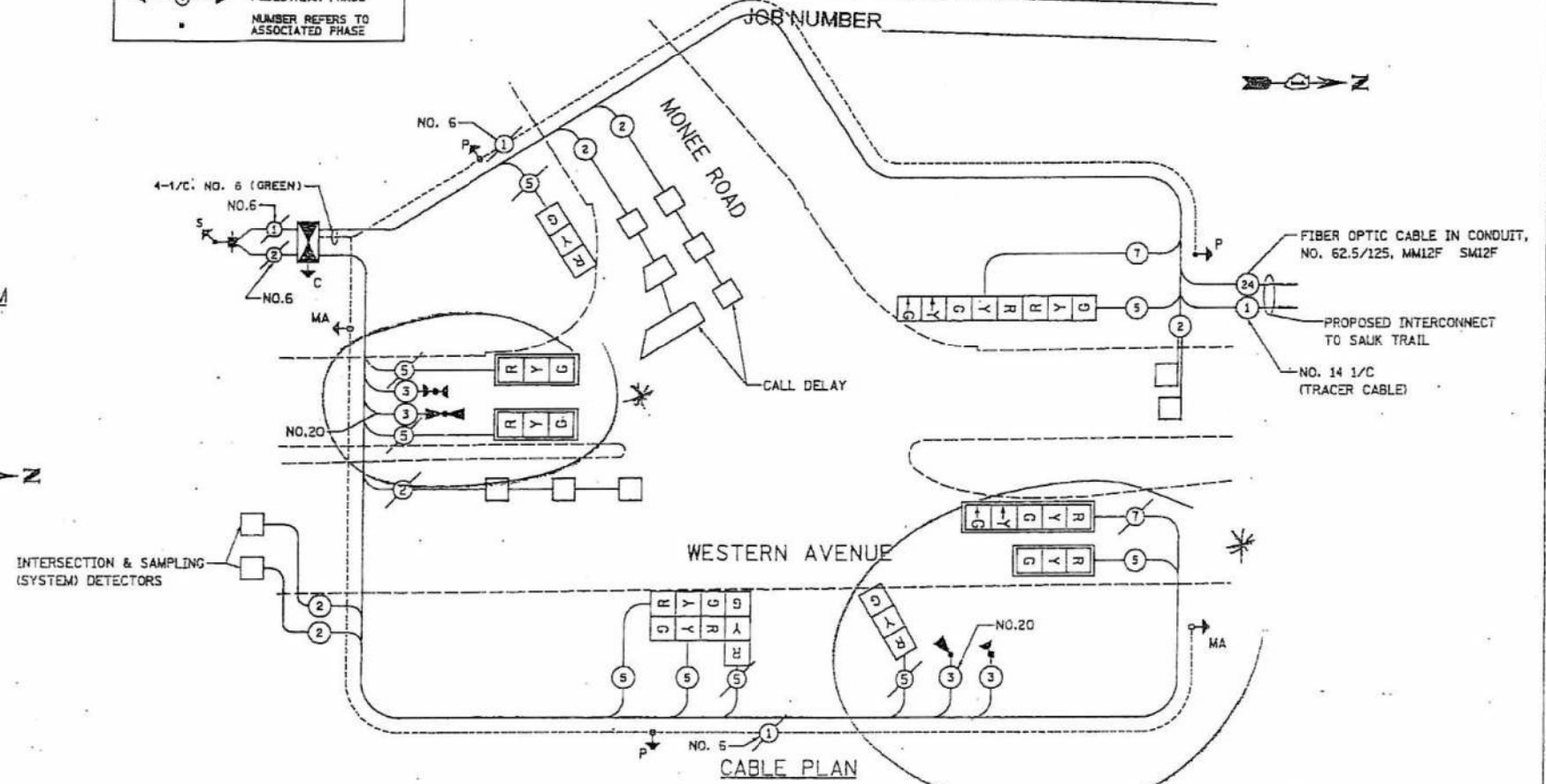
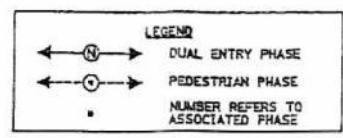
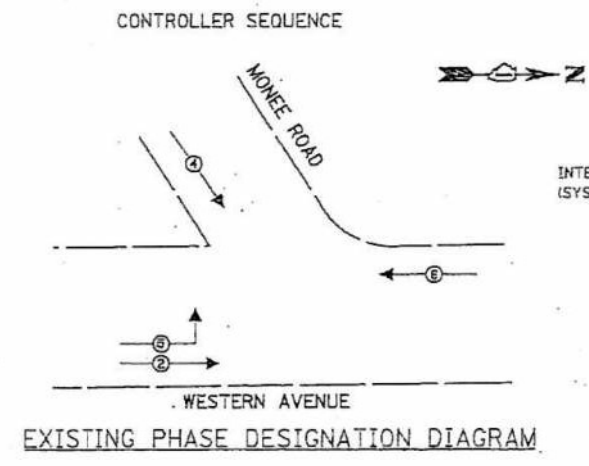
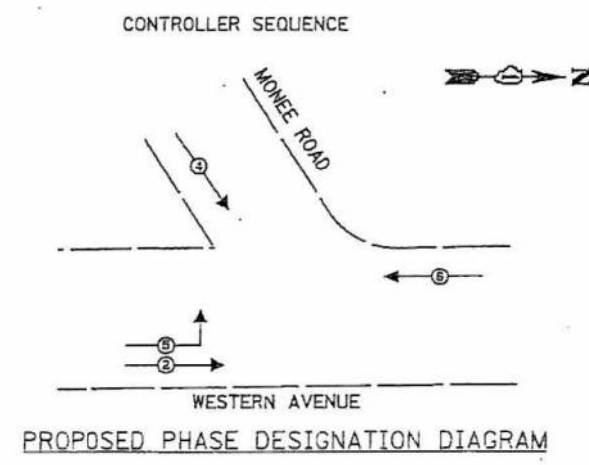
JOB NUM 62742

JOB NUMBER

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2845	3152WRS	COOK	195	29
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
			CONTRACT NO. 62742	

PREPARED BY:  
**CEMCON ILL**  
 CONSULTING ENGINEERS, ARCHITECTS & PLANNERS  
 2200 White Oak Circle, Suite 100  
 Naperville, Illinois 60563-9878  
 Phone: 630-335-8100 Fax: 630-335-8101  
 E-Mail: info@cemcon.com Website: www.cemcon.com

- CABLE PLAN LEGEND**
- |  |  |
|--|--|
|  | 8" (200mm) TRAFFIC SIGNAL SECTION                                  |
|  | 12" (300mm) TRAFFIC SIGNAL SECTION                                 |
|  | 12" (300mm) PEDESTRIAN SIGNAL SECTION                              |
|  | 12" (300mm) PEDESTRIAN SIGNAL SECTION                              |
|  | CONTROLLER CABINET   |
|  | SERVICE INSTALLATION   |
|  | TELEPHONE CONNECTION   |
|  | MAGNETIC DETECTOR  |
|  | EMERGENCY VEHICLE LIGHT DETECTOR                                   |
|  | CONFIRMATION BEACON  |
|  | PUSH-BUTTON DETECTOR   |
|  | VEHICLE DETECTOR, INDUCTION LOOP                                   |
|  | GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)                 |
|  | FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 2-MM12F SM12F            |
|  | SIGNAL FACE WITH BACKPLATE, "P" INDICATES PROGRAMMED HEAD          |
|  | RAILROAD CONTROL CABINET   |
|  | ILLUMINATED SIGN "NO LEFT TURN"                                    |
|  | ILLUMINATED SIGN "NO RIGHT TURN"                                   |
|  | GROUND ROD AT HANDHOLE (H), DOUBLE HANDHOLE (G), OR CONTROLLER (C) |
|  | GROUND ROD AT POST (P), OR MAST ARM POLE (MA)                      |
|  | GROUND ROD AT ELECTRIC SERVICE INSTALLATION                        |



**SCHEDULE OF QUANTITIES**

ITEM	UNIT	QUANTITY
CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	348
CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	20
CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	73
HANDHOLE	EACH	1
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	409
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, (SPECIAL)	EACH	1
TRANSCEIVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	311
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	817
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	161
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	858
TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH	2
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	4
DRILL EXISTING HANDHOLE	EACH	10
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	5
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	1
SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 3-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	4
INDUCTIVE LOOP DETECTOR	EACH	457
DETECTOR LOOP, TYPE I	EACH	2
LIGHT DETECTOR	EACH	1
LIGHT DETECTOR AMPLIFIER	EACH	1
MODIFY EXISTING CONTROLLER FOUNDATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	FOOT	1134
REMOVE EXISTING CONCRETE FOUNDATION	EACH	1
SERVICE INSTALLATION, POLE MOUNTED	EACH	1
ELECTRIC CABLE IN CONDUIT, NO. 20 3/C, TWISTED & SHIELDED	FOOT	315
UNINTERRUPTIBLE POWER SUPPLY	EACH	1

**FOR REFERENCE ONLY**

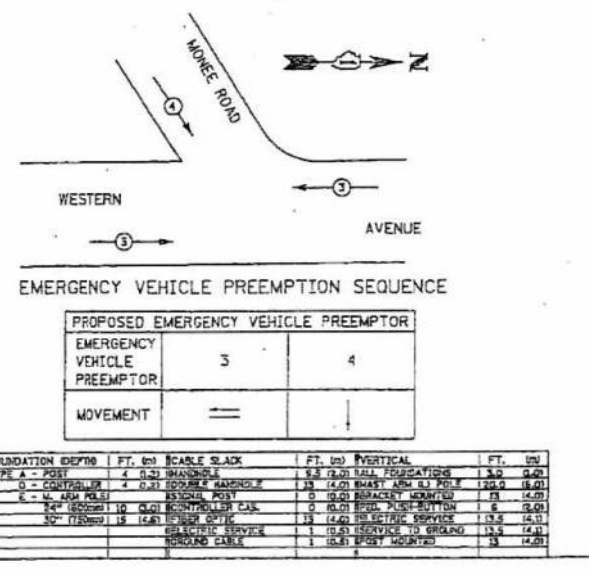
*\* AS BUILT:  
 1 Loop Detector  
 Added*

**NOTE:**  
 THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE".

**I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. LAMPS	WATTAGE (INCAN.)	LED	%OPERATION	TOTAL WATTAGE
SIGNAL (RED)	11	135	17	0.50	93.5
(YELLOW)	11	135	25	0.25	58.75
(GREEN)	11	135	15	0.25	41.25
ARROW	4	135	12	0.10	4.8
PED. SIGNAL	4	90	25	1.00	4
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN		84		0.05	
FLASHER				0.50	
<b>TOTAL =</b>					<b>308.3</b>

**ENERGY COSTS TO:**  
 VILLAGE OF PARK FOREST  
 330 VICTORY DRIVE  
 PARK FOREST, ILLINOIS 60466  
 CONTACT: Jim Werner  
 PHONE: (708) 235-2694  
 COMPANY: Commonwealth Edison



**REVISIONS**

NAME	DATE

**ILLINOIS DEPARTMENT OF TRANSPORTATION**  
**CABLE PLAN, PHASE DESIGNATION DIAGRAM AND SCHEDULE OF QUANTITIES**  
 WESTERN AVENUE AT MONEE ROAD

SCALE: VERT. NONE  
 HORIZ. NONE  
 DATE 5/17/2007

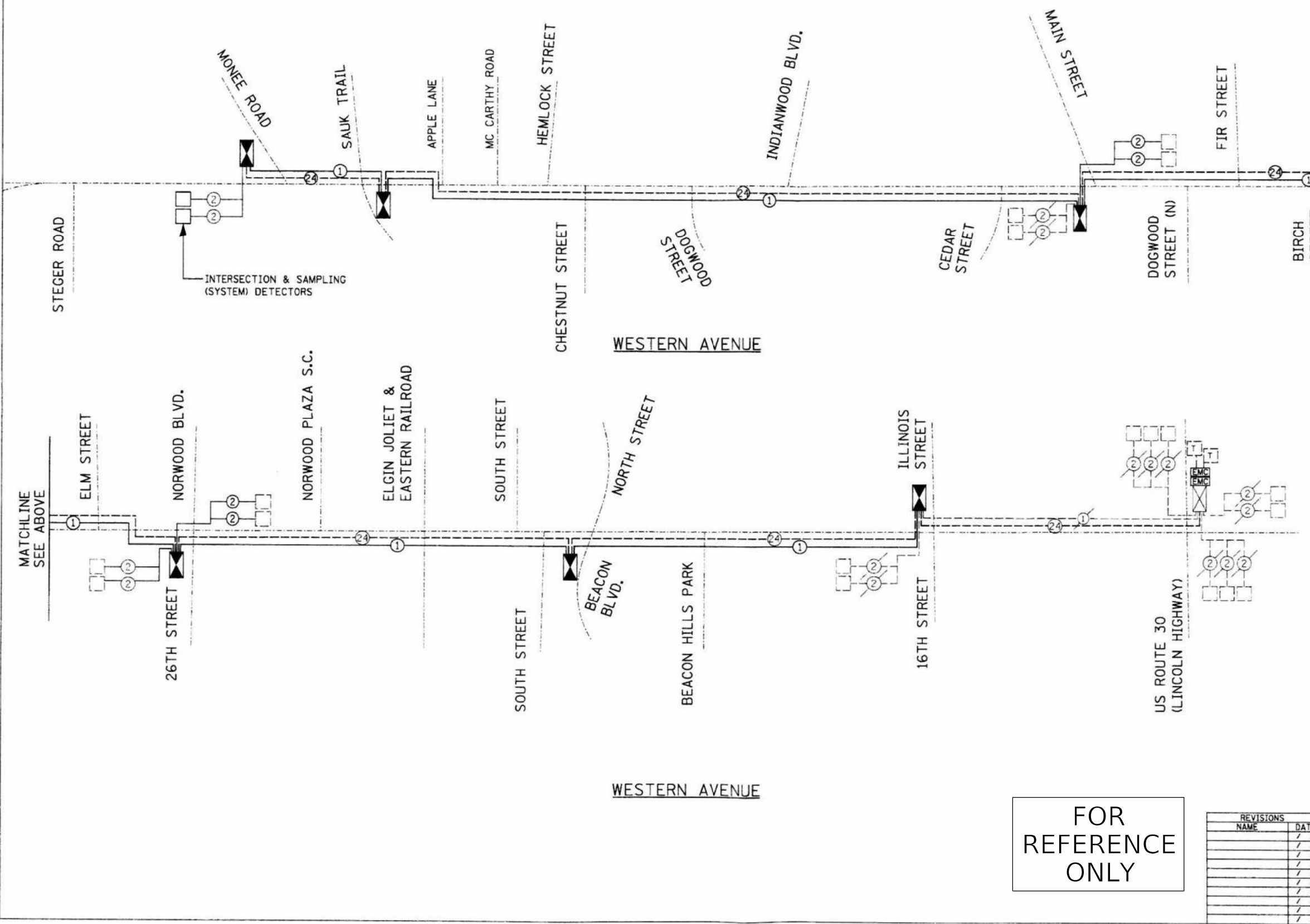
DRAWN BY JLA  
 DESIGNED BY KK/BPT  
 CHECKED BY JTL/BPT

SHEET 3 OF 38

MODEL Path: \\...  
 FILE NAME: \\...  
 PLOT DATE: 12/9/2024

PREPARED BY:  
**CEMCON, Ltd.**  
 Consulting Engineers, Land Surveyors & Planners  
 2280 White Oak Circle, Suite 100  
 Aurora, IL 60018 800-4-5675  
 Fax: 630-584-8800  
 E-Mail: info@cemcon.com Website: www.cemcon.com

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2845	3152WRS	COOK	195	119
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
		CONTRACT NO. 62742		



**INTERCONNECT SCHEMATIC LEGEND**

EXISTING INTERSECTION CONTROLLER	[Symbol]
PROPOSED INTERSECTION CONTROLLER	[Symbol]
EXISTING MASTER CONTROLLER	[Symbol]
PROPOSED MASTER CONTROLLER	[Symbol]
MASTER MASTER CONTROLLER	[Symbol]
EXISTING INTERSECTION & SAMPLING (SYSTEM) DETECTORS	[Symbol]
PROPOSED INTERSECTION & SAMPLING (SYSTEM) DETECTORS	[Symbol]
EXISTING INTERSECTION LOOP DETECTORS (SYSTEM) DETECTORS	[Symbol]
PROPOSED SAMPLING (SYSTEM) DETECTORS	[Symbol]
EXISTING SAMPLING (SYSTEM) DETECTORS	[Symbol]
PROPOSED SAMPLING (SYSTEM) DETECTORS	[Symbol]
EXISTING SAMPLING (SYSTEM) DETECTORS AND SAMPLING (SYSTEM) DETECTORS	[Symbol]
PROPOSED SAMPLING (SYSTEM) DETECTORS AND SAMPLING (SYSTEM) DETECTORS	[Symbol]
EXISTING SAMPLING (SYSTEM) DETECTORS PREFORMED DETECTORS	[Symbol]
PROPOSED SAMPLING (SYSTEM) DETECTORS PREFORMED DETECTORS	[Symbol]
EXISTING PERFORMED INTERSECTION & SAMPLING (SYSTEM) DETECTORS	[Symbol]
PROPOSED PERFORMED INTERSECTION & SAMPLING (SYSTEM) DETECTORS	[Symbol]
EXISTING SAMPLING (SYSTEM) DETECTORS PREFORMED DETECTORS	[Symbol]
PROPOSED SAMPLING (SYSTEM) DETECTORS PREFORMED DETECTORS	[Symbol]
EXISTING FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM2F SM2F	[Symbol]
PROPOSED FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM2F SM2F	[Symbol]
EXISTING INTERCONNECT CABLE, NO. 62.5/125 12F FIBER OPTIC CABLE	[Symbol]
PROPOSED INTERCONNECT CABLE, NO. 62.5/125 12F FIBER OPTIC CABLE	[Symbol]
EXISTING INTERCONNECT CABLE - NO. 18 3 PAIR TWISTED, SHIELDED	[Symbol]
PROPOSED INTERCONNECT CABLE - NO. 18 3 PAIR TWISTED, SHIELDED	[Symbol]
EXISTING LOOP DETECTOR CABLE 2/C TWISTED, SHIELDED	[Symbol]
PROPOSED LOOP DETECTOR CABLE 2/C TWISTED, SHIELDED	[Symbol]
EXISTING ELECTRIC CABLE, 1/C (AS SPECIFIED)	[Symbol]
PROPOSED ELECTRIC CABLE, 1/C (AS SPECIFIED)	[Symbol]
EXISTING TELEPHONE CONNECTION	[Symbol]
PROPOSED TELEPHONE CONNECTION	[Symbol]

FOR REFERENCE ONLY

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**INTERCONNECT SCHEMATIC**  
 WESTERN AVENUE  
 MONEE STREET TO US ROUTE 30 (LINCOLN HWY)

SCALE: VERT. 1" = 100'  
 HORIZ. AS SHOWN  
 DATE 5/17/2007

DRAWN BY JEA  
 DESIGNED BY KK/BPT  
 CHECKED BY JTL/BPT

MODEL Path: \\...  
 FILE NAME: \\...  
 PLOT DATE: 5/18/2007  
 FILE NAME: J:\Users\jja\Documents\Projects\2006\2006-0021\WO 07 62748\DOT\CD\DOT\_Sheets\62748-33-38.dgn  
 USER NAME: JJA

<p><b>INFRASTRUCTURE ENGINEERING</b>        1 South Wacker   Suite 2650   Chicago, IL 60606        P 312.425.9598   F 312.425.9594   www.infrastructure-eng.com</p>	USER NAME = Alane	DESIGNED - ART	REVISED -
	PLOT SCALE = 20,000' / in.	DRAWN - ART	REVISED -
	PLOT DATE = 12/9/2024	CHECKED - ACL	REVISED -
		DATE - 12/09/2024	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

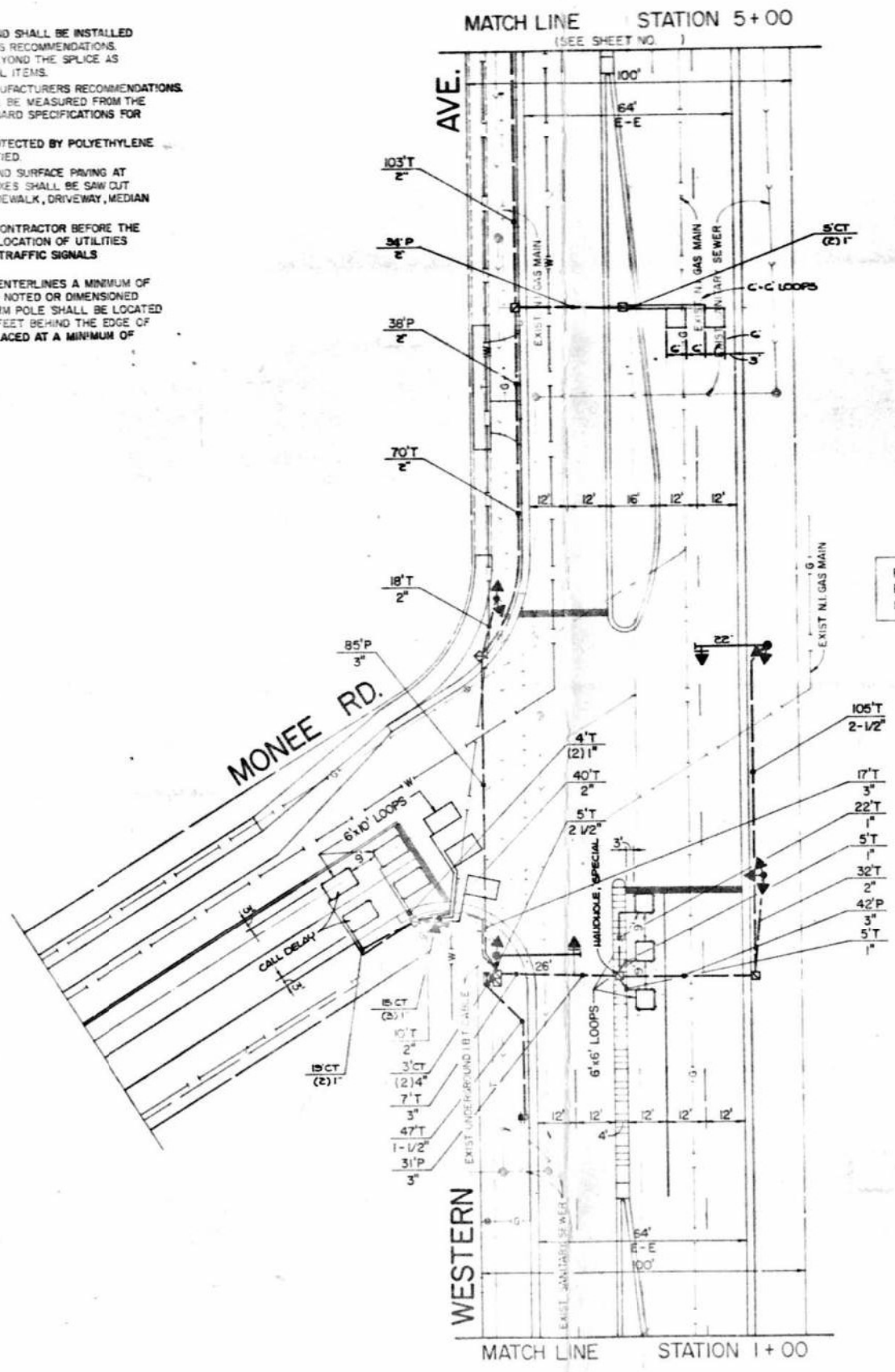
<b>TRAFFIC SIGNAL RECORDS</b>			
<b>WESTERN AVENUE AND MONEE ROAD</b>			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2845	FAU 2845 22 BJ	COOK	35	22
ILLINOIS		FED. AID PROJECT		
		CONTRACT NO. 62748		

FAU ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2845	3152-N-79	COOK	70	50
ILLINOIS PROJECT M-5003(448) 79-0067-00-CH3				

**GENERAL NOTES**

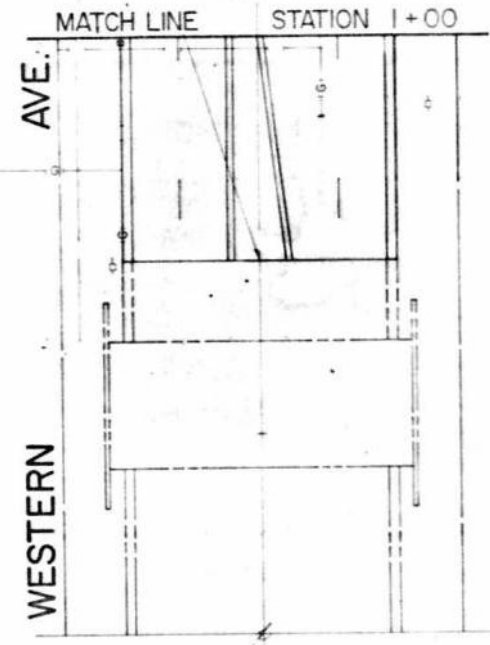
1. ALL DETECTOR LOOPS SHALL CONSIST OF THE NUMBER OF TURNS REQUIRED AND SHALL BE INSTALLED IN STRICT CONFORMITY WITH THE LOOP DETECTOR AMPLIFIER MANUFACTURERS RECOMMENDATIONS. THE DETECTOR LOOP SHALL BE MEASURED FOR THAT PORTION OF SAW CUT BEYOND THE SPLICE AS SPECIFIED IN SECTION T 419.04 OF THE SPECIFICATIONS FOR TRAFFIC CONTROL ITEMS.
2. LEAD-IN WIRING SHALL BE INSTALLED IN STRICT CONFORMITY WITH THE MANUFACTURERS RECOMMENDATIONS. THE 2/C SHIELDED CABLE TO BE USED FOR THE DETECTOR LOOP LEAD-IN SHALL BE MEASURED FROM THE SPLICE TO THE CONTROLLER AS SPECIFIED IN SECTION T 421.04 OF THE STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL ITEMS. FLAT CABLE WILL NOT BE PERMITTED.
3. ALL ELECTRIC CABLE THAT IS FURNISHED BY THE CONTRACTOR SHALL BE PROTECTED BY POLYETHYLENE INSULATION WITH A POLYVINYLCHLORIDE JACKET, UNLESS OTHERWISE SPECIFIED.
4. THE REMOVAL AND REPLACEMENT OF SIDEWALK, DRIVEWAY, MEDIAN, AND ISLAND SURFACE PAVING AT HANDHOLES, JACKING PITS, INSPECTION OPENINGS AND CONCRETE JUNCTION BOXES SHALL BE SAW CUT AROUND THE AREA TO BE REMOVED. THE REMOVAL AND REPLACEMENT OF SIDEWALK, DRIVEWAY, MEDIAN AND ISLAND PAVING WILL BE PAID FOR SEPARATELY.
5. THE EXACT LOCATION OF ALL UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE THE INSTALLATION OF ANY COMPONENTS OF THE TRAFFIC SIGNAL SYSTEM. FOR LOCATION OF UTILITIES CALL J.U.L.I.E. TOLL FREE NUMBER 800-892-0123 AND STATE MAINTAINED TRAFFIC SIGNALS 312-378-2800
6. ALL SIGNAL POSTS AND MAST ARM POLES SHALL BE LOCATED WITH THEIR CENTERLINES A MINIMUM OF FOUR (4) AND SIX (6) FEET RESPECTIVELY FROM THE BACK OF CURB UNLESS NOTED OR DIMENSIONED TO THE CONTRARY ON THE DRAWINGS. IN TURN-CURBED AREAS THE MAST ARM POLE SHALL BE LOCATED A MINIMUM OF TEN (10) FEET BEHIND THE EDGE OF PAVEMENT OR TWO (2) FEET BEHIND THE EDGE OF SHOULDER, WHICHEVER DISTANCE IS GREATER. SIGNAL POSTS SHOULD BE PLACED AT A MINIMUM OF TWO (2) FEET BEHIND THE EDGE OF SHOULDER.



**TRAFFIC SIGNAL LEGEND**

- CONTROLLER
- SERVICE INSTALLATION
- SIGNAL HEAD AND POST
- SIGNAL HEAD WITH BACKPLATE
- SIGNAL HEAD, PEDESTRIAN
- MAST ARM ASSEMBLY AND POLE, STEEL
- HANDHOLE
- HEAVY DUTY HANDHOLE
- DOUBLE HANDHOLE
- GALVANIZED STEEL CONDUIT IN TRENCH OR PUSHED
- PEDESTRIAN PUSHBUTTON DETECTOR
- DETECTOR LOOP
- CONCRETE JUNCTION BOX
- CAST IRON JUNCTION BOX
- COMMON TRENCH
- MAST ARM ASSEMBLY AND POLE, ALUMINUM
- EMERGENCY VEHICLE SYSTEM
- SIGNAL HEAD, OPTICALLY PROGRAMED
- CONDUIT SPLICE
- WOOD POLE
- RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II
- VEHICLE DETECTOR, NON-COMPENSATED MAGNETIC TYPE
- RAILROAD CONTROL CABINET

PROJECT M-5003(448) WESTERN AVE  
 BEGINS STATION 0+43.35 =  
 IDOT STATION 221+43.00



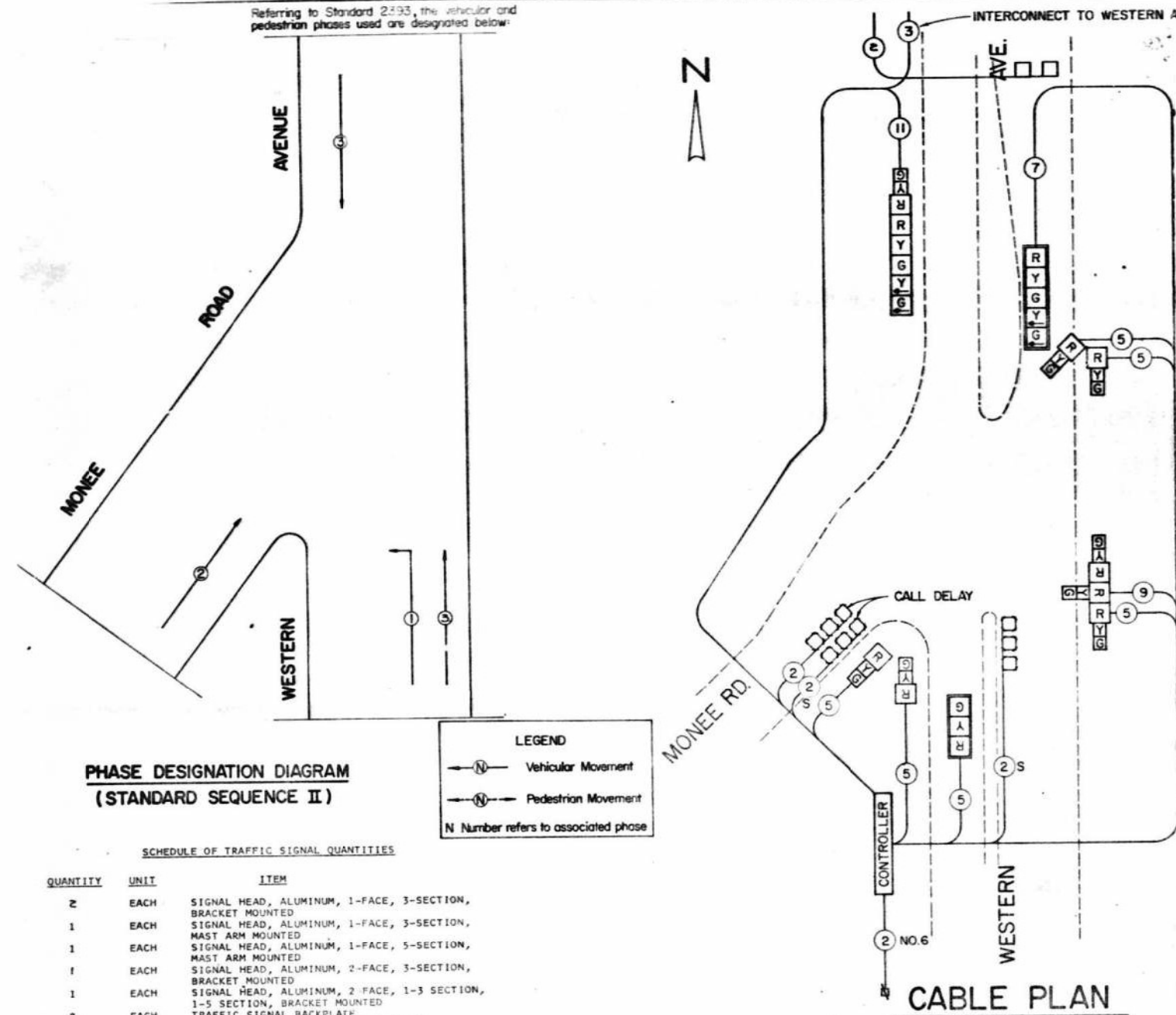
FOR REFERENCE ONLY

REVISIONS			WESTERN AVE & MONEE RD.	
NO.	DATE	REMARKS	E. W. ROBINSON AND ASSOCIATES COMPANY PROFESSIONAL ENGINEERS AND LAND SURVEYORS 1078 HILLMAN BLVD.	
			TRAFFIC SIGNAL INSTALLATION	
			PARK FOREST	ILLINOIS
			Drawn by: BEK	Date:
			Checked by: JR	Scale:
			SHEET OF	PROJECT NO. 79-121.2

MODEL Path: \\s01\infrastructure\projects\79-121.2\222-4675-00 IDOT VofRofR Phase 2 (PTR\_206-002)1100 07 271481.DGN\CADD\_Sheets\62T48-CH3-04.dgn  
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FAU ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2845	3152-N-79	COOK	70	51
ILLINOIS PROJECT M-5003 (425) (79-CO027-CO-C4)				

Referring to Standard 2293, the vehicular and pedestrian phases used are designated below:

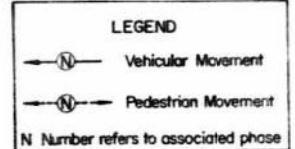


**CABLE PLAN LEGEND**

- 8" TRAFFIC SIGNAL SECTION
- 12" TRAFFIC SIGNAL SECTION
- 12" PEDESTRIAN SIGNAL SECTION
- CONTROLLER CABINET
- SERVICE INSTALLATION
- VEHICLE DETECTOR, INDUCTION LOOP
- PUSHBUTTON DETECTOR
- INDICATES NUMBER OF CONDUCTORS (NEW). ALL LOOP DETECTOR CABLE TO BE SHIELDED. ALL CABLE NO. 14 EXCEPT AS INDICATED.
- INDICATES EXISTING CABLE
- SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED
- EXISTING SIGNAL SECTION
- VEHICLE DETECTOR, MAGNETIC
- VEHICLE DETECTOR, OPTICAL



**PHASE DESIGNATION DIAGRAM (STANDARD SEQUENCE II)**



**SCHEDULE OF TRAFFIC SIGNAL QUANTITIES**

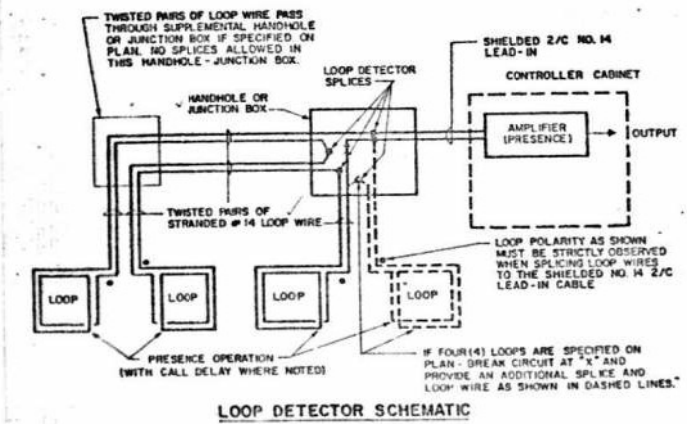
QUANTITY	UNIT	ITEM
2	EACH	SIGNAL HEAD, ALUMINUM, 1-FACE, 3-SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, ALUMINUM, 1-FACE, 3-SECTION, MAST ARM MOUNTED
1	EACH	SIGNAL HEAD, ALUMINUM, 1-FACE, 5-SECTION, MAST ARM MOUNTED
1	EACH	SIGNAL HEAD, ALUMINUM, 2-FACE, 3-SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, ALUMINUM, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED
2	EACH	TRAFFIC SIGNAL BACKPLATE
2	EACH	TRAFFIC SIGNAL POST, FERROUS 14 FT.
1	EACH	TRAFFIC SIGNAL POST, FERROUS 16 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 25 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 28 FT.
1	EACH	FULL-ACTIVATED CONTROLLER, STANDARD SEQUENCE II, 3 PHASES, IN TYPE III CABINET
1	EACH	COORDINATING UNIT
1	EACH	INDUCTION LOOP DETECTOR AMPLIFIER, DIGITAL DESIGN
2	EACH	INDUCTION LOOP DETECTOR AMPLIFIER WITH CALL DELAY, DIGITAL DESIGN
1	EACH	DETECTOR LOOP
395	LIN. FT.	GALVANIZED STEEL CONDUIT IN TRENCH 1"
115	LIN. FT.	GALVANIZED STEEL CONDUIT IN TRENCH 1-1/2"
236	LIN. FT.	GALVANIZED STEEL CONDUIT IN TRENCH 2"
170	LIN. FT.	GALVANIZED STEEL CONDUIT IN TRENCH 2-1/2"
110	LIN. FT.	GALVANIZED STEEL CONDUIT IN TRENCH 3"
24	LIN. FT.	GALVANIZED STEEL CONDUIT IN TRENCH 3-1/2"
6	LIN. FT.	GALVANIZED STEEL CONDUIT IN TRENCH 4"
38	LIN. FT.	GALVANIZED STEEL CONDUIT, PUSHED 2"
158	LIN. FT.	GALVANIZED STEEL CONDUIT, PUSHED 3"
718	LIN. FT.	ELECTRIC CABLE IN CONDUIT NO. 14 3/C
243	LIN. FT.	ELECTRIC CABLE IN CONDUIT NO. 14 5/C
142	LIN. FT.	ELECTRIC CABLE IN CONDUIT NO. 14 7/C
144	LIN. FT.	ELECTRIC CABLE IN CONDUIT NO. 14 9/C
328	LIN. FT.	ELECTRIC CABLE IN CONDUIT NO. 14 11/C SHIELDED
49	LIN. FT.	ELECTRIC CABLE IN CONDUIT NO. 6 2/C
1	EACH	SERVICE INSTALLATION, TYPE C
9	LIN. FT.	CONCRETE FOUNDATION, TYPE A
3-5	LIN. FT.	CONCRETE FOUNDATION, TYPE D
20	LIN. FT.	CONCRETE FOUNDATION, TYPE E 24-INCH DIAMETER
3	EACH	CONCRETE HANDHOLE
1	EACH	CONCRETE DOUBLE HANDHOLE
722	LIN. FT.	TRENCH AND BACKFILL

- 1 EACH SIGNAL HEAD, ALUMINUM, 3-FACE, 3-SECTION, BRACKET MOUNTED
- 2 EACH HANDHOLE, SPECIAL
- 13.5 SQ. FT. SIGN PANEL, TYPE 1

**CABLE PLAN**

FOR REFERENCE ONLY

1. EACH LOOP LEAD-IN SHALL BE PLACED IN A SEPARATE CONDUIT FROM EDGE OF PAVEMENT TO HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6".
2. EACH LOOP DETECTOR SPLICE SHALL BE AN INDIVIDUAL TYPE II OR TYPE III SPLICE.
3. LOOP TURNS AS RECOMMENDED BY THE MANUFACTURER.



**SCHEDULE OF SIGNAL HEADS (WESTERN AVE. & MONEE RD.)**

2 EACH	SIGNAL HEAD, ALUMINUM, 1-FACE, 3-SECTION WITH 12-INCH RED LENS, BRACKET MOUNTED
1 EACH	SIGNAL HEAD, ALUMINUM, 1-FACE, 3-SECTION WITH 12-INCH LENSES, MAST ARM MOUNTED
1 EACH	SIGNAL HEAD, ALUMINUM, 1-FACE, 5-SECTION WITH 12-INCH LENSES, MAST ARM MOUNTED
1 EACH	SIGNAL HEAD, ALUMINUM, 2-FACE, 3-SECTION WITH 12-INCH RED LENSES, BRACKET MOUNTED
1 EACH	SIGNAL HEAD, ALUMINUM, 2-FACE, 1-3 SECTION WITH 12-INCH RED LENS, 1-5 SECTION WITH 12-INCH LENSES, BRACKET MOUNTED
1 EACH	SIGNAL HEAD, ALUMINUM, 3-FACE, 3-SECTION WITH 12" RED LENSES, BRACKET MOUNTED

**WESTERN AVE. & MONEE RD.**

REVISIONS			R. W. ROBINSON AND ASSOCIATES COMPANY		
NO.	DATE	REMARKS	PROFESSIONAL ENGINEERS AND LAND SURVEYORS		
			SOUTH HOLLAND, ILLINOIS		
			466195		
			<b>CABLE PLAN</b>		
			PARK FOREST, ILLINOIS		
			Drawn by: BEK	Scale:	
			Checked by: JR		
			SHEET OF	PROJECT NO. 79-1212	

MODEL: P:\p\inf\... FILE NAME: I:\CLUSTER\10\p\inf\... 2 (PT: 206-0021) NO. 07 82748102CAGCADD\_Sheet163718-15-25-2011

<p><b>INFRASTRUCTURE ENGINEERING INCORPORATED</b> 1 South Wacker   Suite 2650   Chicago, IL 60606 P: 312.425.9599   F: 312.425.9598   www.infrastructure-eng.com</p>	USER NAME = Alane	DESIGNED - ART	REVISED -
	PLOT SCALE = 20,000' / in.	DRAWN - ART	REVISED -
	PLOT DATE = 12/9/2024	CHECKED - ACL	REVISED -
		DATE = 12/09/2024	REVISED -

**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**

SCALE:		SHEET	OF	SHEETS	STA.	TO	STA.
TRAFFIC SIGNAL RECORDS		WESTERN AVENUE AND MONEE ROAD					

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2845	FAU 2845 22 BJ	COOK	35	24
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62T48	



**APPROVED**     **DISAPPROVED**  
 **APPROVED AS NOTED**  
 BY SFD    DATE 4/17/09  
 JOB NUM 62742  
 JOB NUMBER \_\_\_\_\_

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2845	3152WR5	COOK	19	90

STA. \_\_\_\_\_ TO STA. \_\_\_\_\_  
 ILLINOIS FED. AID PROJECT  
 CONTRACT NO. 62742

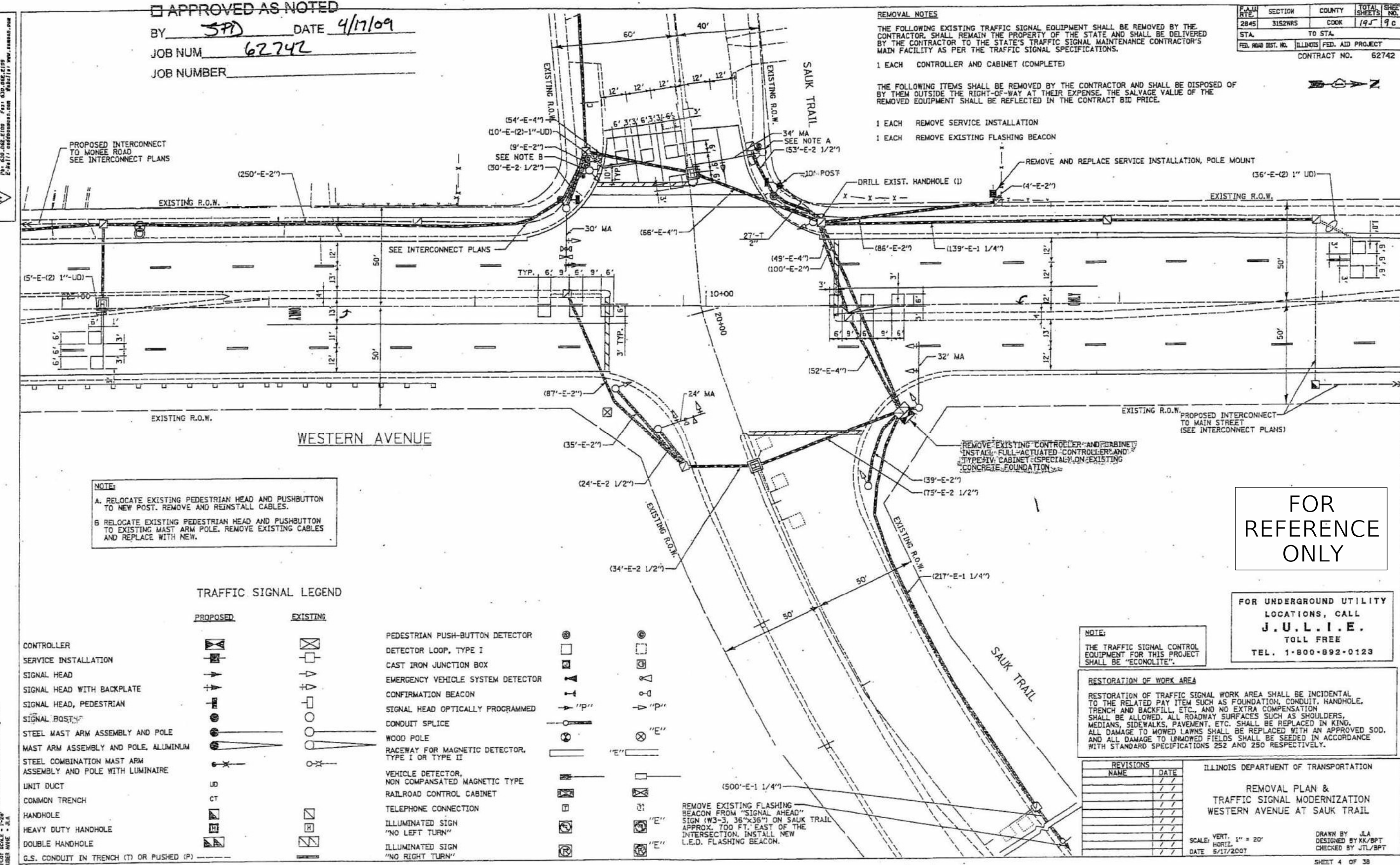
**REMOVAL NOTES**

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR. THE EQUIPMENT SHALL REMAIN THE PROPERTY OF THE STATE AND SHALL BE DELIVERED BY THE CONTRACTOR TO THE STATE'S TRAFFIC SIGNAL MAINTENANCE CONTRACTOR'S MAIN FACILITY AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

- 1 EACH CONTROLLER AND CABINET (COMPLETE)
- 1 EACH REMOVE SERVICE INSTALLATION
- 1 EACH REMOVE EXISTING FLASHING BEACON

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.

- 1 EACH REMOVE SERVICE INSTALLATION, POLE MOUNT
- 1 EACH REMOVE EXISTING FLASHING BEACON



**NOTE:**

- A. RELOCATE EXISTING PEDESTRIAN HEAD AND PUSHBUTTON TO NEW POST. REMOVE AND REINSTALL CABLES.
- B. RELOCATE EXISTING PEDESTRIAN HEAD AND PUSHBUTTON TO EXISTING MAST ARM POLE. REMOVE EXISTING CABLES AND REPLACE WITH NEW.

**TRAFFIC SIGNAL LEGEND**

PROPOSED	EXISTING	
CONTROLLER		PEDESTRIAN PUSH-BUTTON DETECTOR
SERVICE INSTALLATION		DETECTOR LOOP, TYPE I
SIGNAL HEAD		CAST IRON JUNCTION BOX
SIGNAL HEAD WITH BACKPLATE		EMERGENCY VEHICLE SYSTEM DETECTOR
SIGNAL HEAD, PEDESTRIAN		CONFIRMATION BEACON
SIGNAL POST		SIGNAL HEAD OPTICALLY PROGRAMMED
STEEL MAST ARM ASSEMBLY AND POLE		CONDUIT SPLICE
MAST ARM ASSEMBLY AND POLE, ALUMINUM		WOOD POLE
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE		RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II
UNIT DUCT		VEHICLE DETECTOR, NON COMPANATED MAGNETIC TYPE
COMMON TRENCH		RAILROAD CONTROL CABINET
HANDHOLE		TELEPHONE CONNECTION
HEAVY DUTY HANDHOLE		ILLUMINATED SIGN "NO LEFT TURN"
DOUBLE HANDHOLE		ILLUMINATED SIGN "NO RIGHT TURN"
G.S. CONDUIT IN TRENCH (T) OR PUSHED (P)		

**NOTE:**  
THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE".

**RESTORATION OF WORK AREA**  
RESTORATION OF TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

**FOR REFERENCE ONLY**

**FOR UNDERGROUND UTILITY LOCATIONS, CALL J.U.L.I.E. TOLL FREE TEL. 1-800-892-0123**

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**REMOVAL PLAN & TRAFFIC SIGNAL MODERNIZATION WESTERN AVENUE AT SAUK TRAIL**  
 SCALE: VERT. 1" = 20'  
 HORIZ. 1" = 20'  
 DATE 5/17/2007  
 DRAWN BY J.L.A.  
 DESIGNED BY KK/BPT  
 CHECKED BY JTL/BPT

MODEL Path: J:\Projects\2008\222-222-100 DDOT\Work\Phase 2 (PTB-206-002)\IWD 07 271481\DCM\CADD\_Sheets\222\100\TSS-11.dwg  
 FILE NAME: 222-222-100 DDOT\Work\Phase 2 (PTB-206-002)\IWD 07 271481\DCM\CADD\_Sheets\222\100\TSS-11.dwg  
 PLOT DATE: 5/17/2007  
 PLOT SCALE: 1" = 20'  
 USER NAME: J.L.A.

USER NAME	DESIGNED	REVISIONS
= Alane	- ART	-
	DRAWN - ART	REVISIONS -
PLOT SCALE = 20,000' / in.	CHECKED - ACL	REVISIONS -
PLOT DATE = 12/9/2024	DATE = 12/09/2024	REVISIONS -

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2845	FAU 2845 22 BJ	COOK	35	25

ILLINOIS FED. AID PROJECT  
 CONTRACT NO. 62748

ALDRIDGE ELECTRIC, INC.

APPROVED  DISAPPROVED

APPROVED AS NOTED

BY SPD DATE 4/17/09

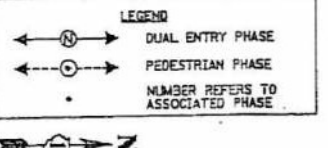
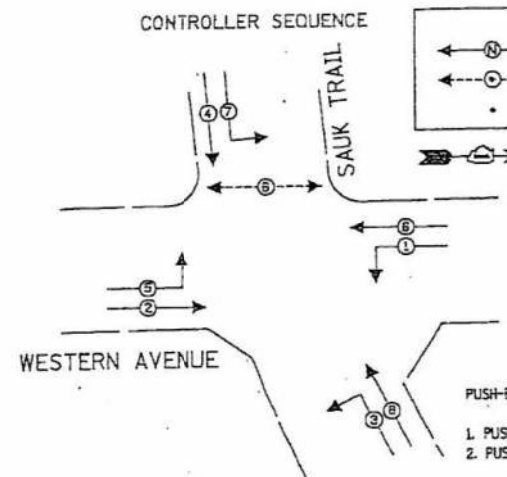
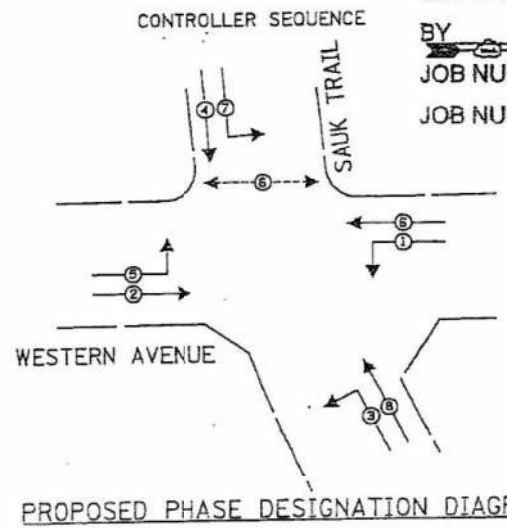
JOB NUM 62742

JOB NUMBER

F.A.U. RTE.	SECTION	COUNTY
2845	3152WRS	COO
STA.	TO STA.	
FED. ROAD DIST. NO.	ILLINOIS FED.	CONTRACT

PREPARED BY:  
**CEMCON, Ltd.**  
 Consulting Engineers, Planners & Planners  
 1111/11th Street, Suite 100  
 Chicago, IL 60614  
 Phone: 312.425.5599 Fax: 312.425.5599  
 E-Mail: info@cemcon.com Website: www.cemcon.com

EXISTING	PROPOSED	Description
(Symbol)	(Symbol)	8" (200mm) TRAFFIC SIGNAL SECTION
(Symbol)	(Symbol)	12" (300mm) TRAFFIC SIGNAL SECTION
(Symbol)	(Symbol)	12" (300mm) PEDESTRIAN SIGNAL SECTION
(Symbol)	(Symbol)	12" (300mm) PEDESTRIAN SIGNAL SECTION
(Symbol)	(Symbol)	CONTROLLER CABINET
(Symbol)	(Symbol)	SERVICE INSTALLATION
(Symbol)	(Symbol)	TELEPHONE CONNECTION
(Symbol)	(Symbol)	MAGNETIC DETECTOR
(Symbol)	(Symbol)	EMERGENCY VEHICLE LIGHT DETECTOR
(Symbol)	(Symbol)	CONFIRMATION BEACON
(Symbol)	(Symbol)	PUSH-BUTTON DETECTOR
(Symbol)	(Symbol)	VEHICLE DETECTOR, INDUCTION LOOP
(Symbol)	(Symbol)	DENOTES NUMBER OF CONDUCTORS, ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.
(Symbol)	(Symbol)	GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)
(Symbol)	(Symbol)	FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 2-MM12F SM12F
(Symbol)	(Symbol)	SIGNAL FACE WITH BACKPLATE, "P" INDICATES PROGRAMMED HEAD
(Symbol)	(Symbol)	RAILROAD CONTROL CABINET
(Symbol)	(Symbol)	ILLUMINATED SIGN "NO LEFT TURN"
(Symbol)	(Symbol)	ILLUMINATED SIGN "NO RIGHT TURN"
(Symbol)	(Symbol)	GROUND ROD AT HANDHOLE (H), DOUBLE HANDHOLE (H), OR CONTROLLER (C)
(Symbol)	(Symbol)	GROUND ROD AT POST (P), OR MAST ARM POLE (MA)
(Symbol)	(Symbol)	GROUND ROD AT ELECTRIC SERVICE INSTALLATION



**PUSH-BUTTON NOTES:**

- PUSH-BUTTON "B" SHALL PLACE A CALL IN PHASES 4 & 6.
- PUSH-BUTTON "C" SHALL PLACE A CALL IN PHASES 5 & 8.

EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	=	

TYPE	NO. LAMPS	WATTAGE (INCAND.)	LED	OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12	135	17	0.50	102
(YELLOW)	12	135	25	0.25	75
(GREEN)	12	135	15	0.25	45
ARROW	16	135	12	0.10	19.2
PED. SIGNAL	2	90	25	1.00	50
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN	1	84		0.05	
TOTAL =					403.7

FOUNDATION DEPTH	FT. (m)	CABLE SLACK	FT. (m)	VERTICAL	FT. (m)
TYPE A - POST	4 (1.2)	HAND-POLE	5.5 (2.0)	ALL FOUNDATIONS	3.0 (1.0)
D - CONTROLLER	4 (1.2)	DOUBLE HANDHOLE	13 (4.0)	MAST ARM (L) POLE	20.0 (6.0)
E - M. ARM POLE	0 (0.0)	SIGNAL POST	0 (0.0)	BRACKET MOUNTED	13 (4.0)
		24" (600mm)	10 (3.0)	CONTROLLER CAB.	0 (0.0)
		30" (750mm)	15 (4.6)	FIBER OPTIC	13 (4.0)
			1 (0.3)	ELECTRIC SERVICE	13.5 (4.1)
			1 (0.3)	SERVICE TO GROUND	13.5 (4.1)
			1 (0.3)	POST MOUNTED	13 (4.0)

ITEM	UNIT	QUANTITY
CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	27
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, (SPECIAL)	EACH	1
TRANSEIVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	290
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	306
TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	1
INDUCTIVE LOOP DETECTOR	EACH	2
DETECTOR LOOP, TYPE I	FOOT	453
RELOCATE EXISTING PEDESTRIAN SIGNAL HEAD	EACH	2
RELOCATE EXISTING PEDESTRIAN PUSH-BUTTON	EACH	2
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	553
REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	375
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
SERVICE INSTALLATION, POLE MOUNTED	EACH	1
FLASHING BEACON AND FLASHER CONTROLLER	EACH	1
UNINTERRUPTIBLE POWER SUPPLY	EACH	1

*As Built:*  
1 Loop Detector Added

NOTE:  
THE TRAFFIC SIGNAL EQUIPMENT FOR THIS SHALL BE "ECONOMY"

FOR REFERENCE ONLY

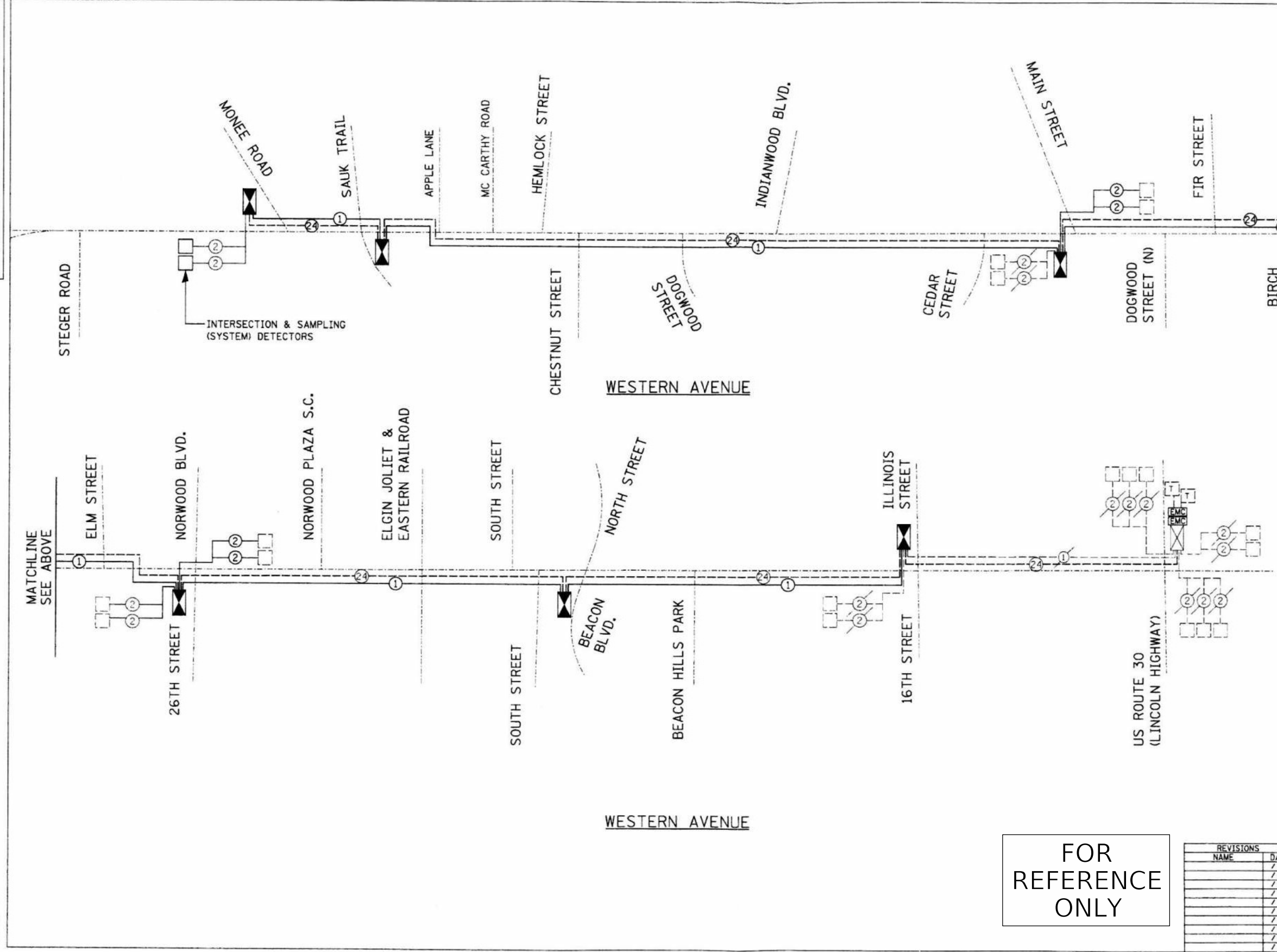
NO.	DATE	DESCRIPTION

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 CABLE PLAN, PHASE DESIGNATION AND SCHEDULE OF QUANTITIES  
 WESTERN AVENUE AT SAUK TRAIL  
 SCALE: VERT. NONE  
 HORIZ. AS SHOWN  
 DATE: 5/17/2007  
 DRAY: CHE.  
 DESI: CHE.  
 SHEET: SHEET

MODEL: 10402  
 FILE NAME: \\sccs\dr\projects\10402\10402.dwg  
 PLOT DATE: 12/19/2004 11:02:22  
 PLOT SCALE: 1/8" = 1'-0"

PREPARED BY:  
**CEMCON, Ltd.**  
 Consulting Engineers, Land Surveyors & Planners  
 2280 Wolfe Oak Circle, Suite 100  
 Oak Brook, IL 60521  
 Tel: 630.582.2100 Fax: 630.582.2199  
 E-Mail: info@cemcon.com Website: www.cemcon.com

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2845	3152WRS	COOK	195	119
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO.			62742	



**INTERCONNECT SCHEMATIC LEGEND**

EXISTING INTERSECTION CONTROLLER	☒
PROPOSED INTERSECTION CONTROLLER	☒
EXISTING MASTER CONTROLLER	EMC
PROPOSED MASTER CONTROLLER	EMC
MASTER MASTER CONTROLLER	MMC
EXISTING INTERSECTION & SAMPLING (SYSTEM) DETECTORS	ISD
PROPOSED INTERSECTION & SAMPLING (SYSTEM) DETECTORS	ISD
EXISTING INTERSECTION LOOP DETECTORS (SYSTEM) DETECTORS	ILD
PROPOSED INTERSECTION LOOP DETECTORS (SYSTEM) DETECTORS	ILD
EXISTING SAMPLING (SYSTEM) DETECTORS	ES
PROPOSED SAMPLING (SYSTEM) DETECTORS	ES
EXISTING SAMPLING (SYSTEM) DETECTORS AND SAMPLING (SYSTEM) DETECTORS	ESP
PROPOSED SAMPLING (SYSTEM) DETECTORS AND SAMPLING (SYSTEM) DETECTORS	ESP
EXISTING SAMPLING (SYSTEM) DETECTORS	ESPD
PROPOSED SAMPLING (SYSTEM) DETECTORS	ESPD
EXISTING FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM 2F SMI 2F	24
PROPOSED FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM 2F SMI 2F	24
EXISTING INTERCONNECT CABLE, NO. 62.5/125 12F FIBER OPTIC CABLE	12
PROPOSED INTERCONNECT CABLE, NO. 62.5/125 12F FIBER OPTIC CABLE	12
EXISTING INTERCONNECT CABLE - NO. 18 3 PAIR TWISTED, SHIELDED	6
PROPOSED INTERCONNECT CABLE - NO. 18 3 PAIR TWISTED, SHIELDED	6
EXISTING LOOP DETECTOR CABLE 2/C TWISTED, SHIELDED	2
PROPOSED LOOP DETECTOR CABLE 2/C TWISTED, SHIELDED	2
EXISTING ELECTRIC CABLE, 1/C (AS SPECIFIED)	1
PROPOSED ELECTRIC CABLE, 1/C (AS SPECIFIED)	1
EXISTING TELEPHONE CONNECTION	T
PROPOSED TELEPHONE CONNECTION	T

**FOR REFERENCE ONLY**

**FOR REFERENCE ONLY**

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**INTERCONNECT SCHEMATIC**  
**WESTERN AVENUE**  
**MONEE STREET TO US ROUTE 30**  
**(LINCOLN HWY)**

SCALE: VERT. 1" = 100'  
 HORIZ. AS SHOWN  
 DATE 5/17/2007

DRAWN BY JLA  
 DESIGNED BY KK/BPT  
 CHECKED BY JTL/BPT

MODEL Path: \\...  
 FILE NAME: \\...  
 PLOT DATE: 5/17/2007  
 FILE NAME: \\...  
 USER NAME: JLA

<p><b>INFRASTRUCTURE ENGINEERING INCORPORATED</b>          1 South Wacker   Suite 2650   Chicago, IL 60606          P: 312.425.9599   F: 312.425.9594   www.infrastructure-eng.com</p>	USER NAME = Alane	DESIGNED - ART	REVISED -
	PLOT SCALE = 20,000' / in.	DRAWN - ART	REVISED -
	PLOT DATE = 12/9/2024	CHECKED - ACL	REVISED -
		DATE - 12/09/2024	REVISED -

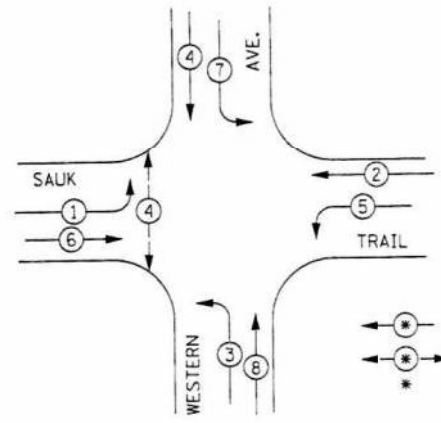
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

<b>TRAFFIC SIGNAL RECORDS</b>	
<b>WESTERN AVENUE AND SAUK TRAIL</b>	
SCALE:	SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2845	FAU 2845 22 BJ	COOK	35	27
CONTRACT NO.			62748	
ILLINOIS		FED. AID PROJECT		

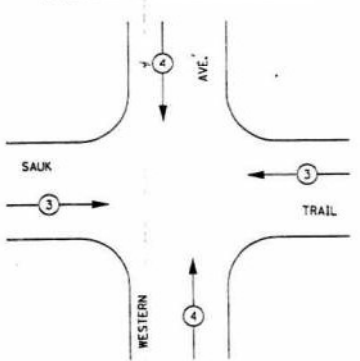


**EXISTING CONTROLLER SEQUENCE**



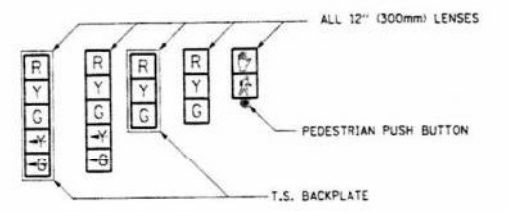
**PHASE DESIGNATION DIAGRAM**  
 DUAL ENTRY - ALL LEGS  
 PROTECTED / PERMITTED LEFT TURN PHASING

**EMERGENCY VEHICLE PREEMPTION SEQUENCE**



EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	⇐	⇐

**SIGNAL FACES**



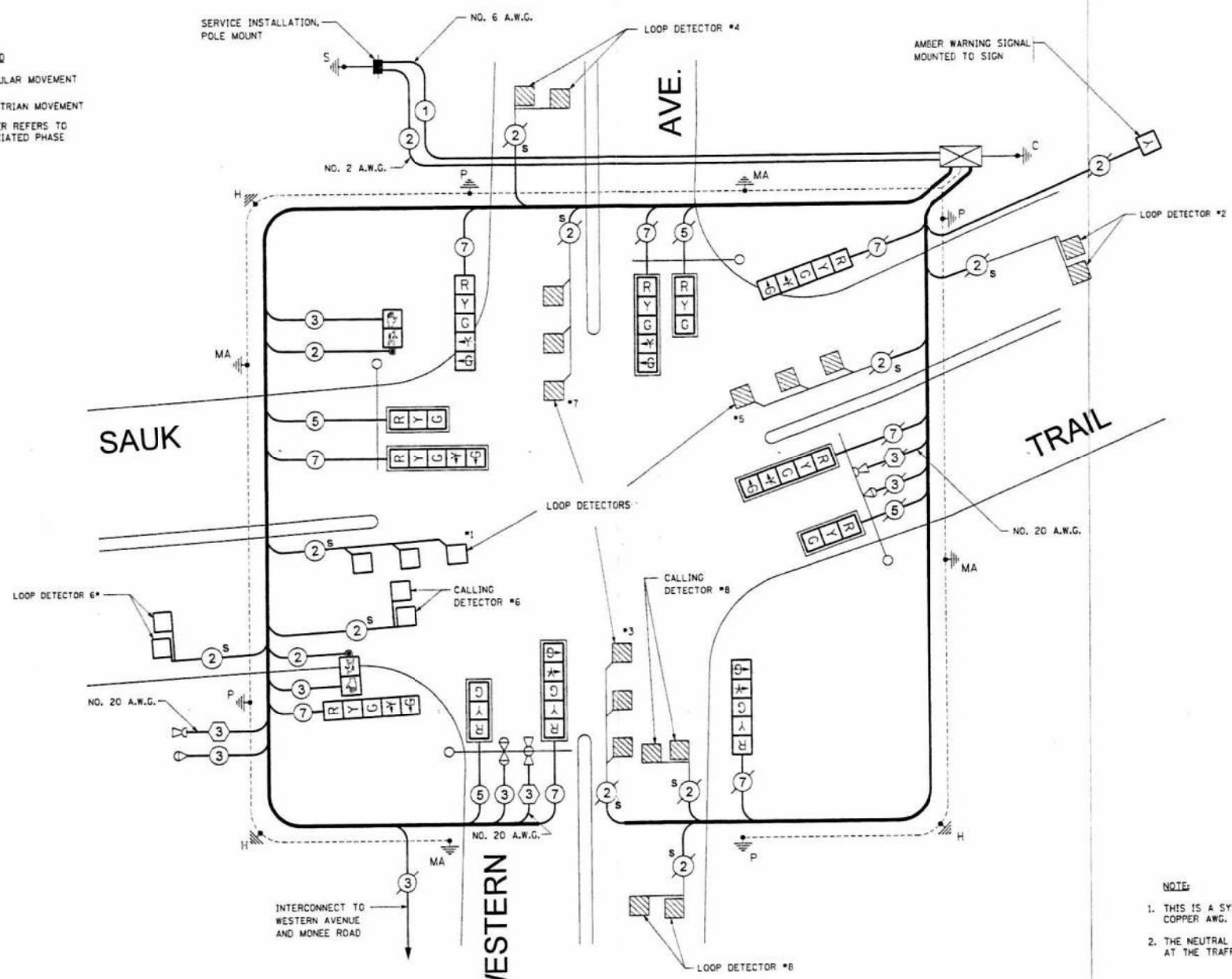
- SIGNAL LENSES**
- R RED
  - Y YELLOW
  - G GREEN
  - Y- YELLOW TURN INDICATOR
  - G- GREEN TURN INDICATOR

**LEGEND**

- ⊙ VEHICULAR MOVEMENT
- ⊙ PEDESTRIAN MOVEMENT
- \* NUMBER REFERS TO ASSOCIATED PHASE

**CABLE PLAN LEGEND**

- |  | PROPOSED | EXISTING |
|--|----------|----------|
| CONTROLLER CABINET   |          |          |
| SERVICE INSTALLATION   |          |          |
| 12" TRAFFIC SIGNAL SECTION   |          |          |
| DENOTES NUMBER OF CONDUCTORS ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE TWISTED AND SHIELDED. |          |          |
| VEHICLE DETECTOR, INDUCTION LOOP   |          |          |
| SHIELDED & TWISTED   |          |          |
| EMERGENCY VEHICLE LIGHT DETECTOR   |          |          |
| CONFIRMATION BEACON  |          |          |
| OPTICOM CABLE  |          |          |
| 300mm PEDESTRIAN SIGNAL HEAD   |          |          |
| PUSHBUTTON DETECTOR  |          |          |
| GROUND ROD AT HANDHOLE (H), DOUBLE HANDHOLE (H2), OR CONTROLLER (C)  |          |          |
| GROUND ROD AT POST (P), OR MAST ARM POLE (MA)  |          |          |
| GROUND ROD AT ELECTRIC SERVICE INSTALLATION  |          |          |



**NOTE:**

- THIS IS A SYSTEM GROUND THAT SHALL INTERCONNECT ALL GROUND RODS WITH NO. 6 1/2 COPPER AWG.
- THE NEUTRAL AND GROUND SHALL BE TIED AT THE SERVICE INSTALLATION BUT SEPARATE AT THE TRAFFIC CABINET.

FOR REFERENCE ONLY

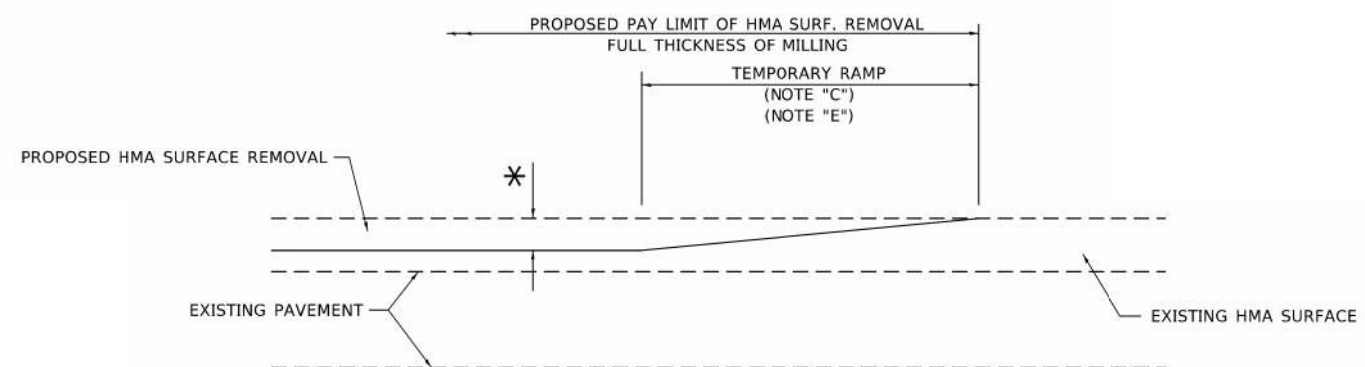
**CABLE PLAN**  
 NOT TO SCALE

TYPE	NO. LAMPS	INCAND.	LED	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12 x	135	17 x	0.50	102.0
(YELLOW)	12 x	135	25 x	0.25	75.0
(GREEN)	12 x	135	15 x	0.25	45.0
ARROW	8 x	135	12 x	0.10	9.6
PED. SIGNAL	2 x	90	25 x	1.00	50.0
CONTROLLER	1 x	100	100 x	1.00	100.0
ILLUM. SIGN	x	84	x	0.05	
<b>FLASHER</b>					
	1	135	x	0.50	67.5
<b>ENERGY COSTS TO:</b>					<b>TOTAL = 448.1</b>
CALL I.D.O.T. FOR BILLING INFORMATION AT (847) 705-4424.					
ENERGY SUPPLY CONTACT: JOAN COOK, PHONE: (847) 870-2062, COMPANY: ComEd					

FOUNDATION (DEPTH)	FT. (m)	CABLE SLACK	FT. (m)	VERTICAL	FT. (m)
TYPE A - POST	4 (1.2)	HANDHOLE	6.5 (2.0)	ALL FOUNDATIONS	3.5 (1.0)
D - CONTROLLER	4 (1.2)	DOUBLE HANDHOLE	13 (4.0)	MAST ARM (L) POLE	20' ± 2"
E - M. ARM POLE		SIGNAL POST	2 (0.5)	(6m ± 0.6m) ±	
		24" (600mm)	10 (3.0)	CONTROLLER CAB.	13 (4.0)
		30" (750mm)	15 (4.6)	FIBER OPTIC	13 (4.0)
				ELECTRIC SERVICE	13.5 (4.1)
				GROUND CABLE	1 (0.5)
				SERVICE TO GROUND	13.5 (4.1)
				POST MOUNTED	6 (1.8)

COUNTY OF COOK DEPARTMENT OF HIGHWAYS	
SAUK TRAIL AT WESTERN AVENUE CABLE DIAGRAM	
COMPUTED: R.L.S.	APPROVED: _____
DRAWN: W.A.C.	
CHECKED: P.L.W.	

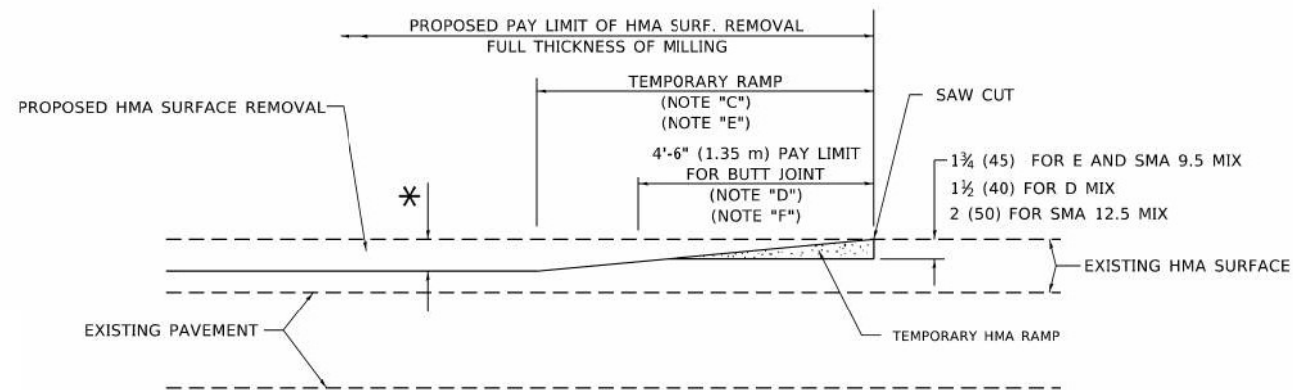
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**MILLED TEMPORARY RAMP**

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

**OPTION 1**

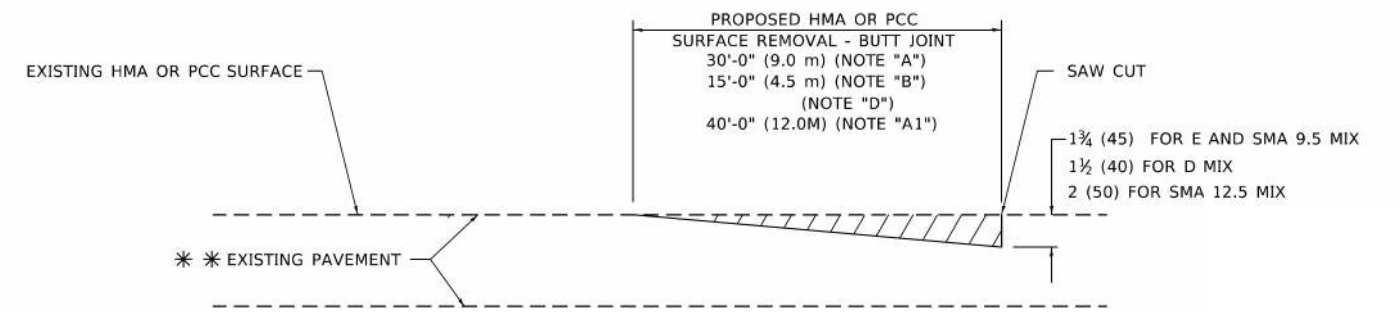


**HMA CONSTRUCTED TEMPORARY RAMP**

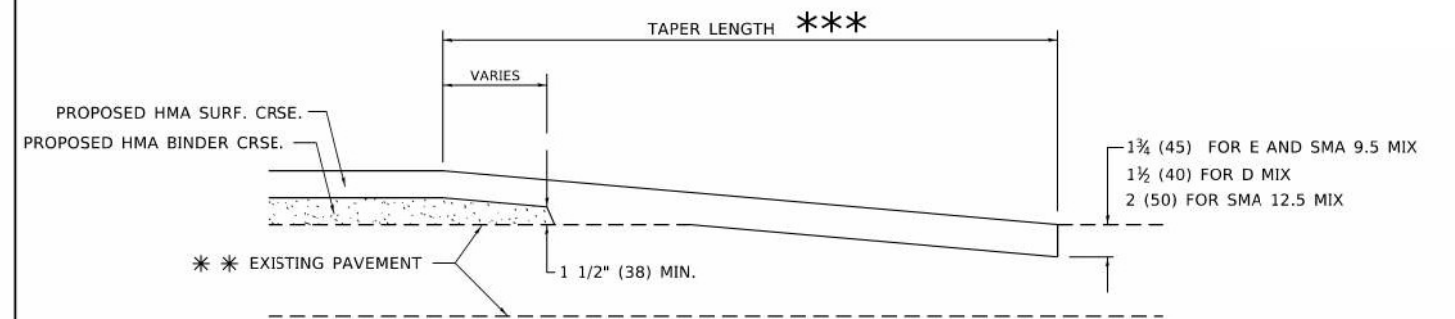
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

**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.

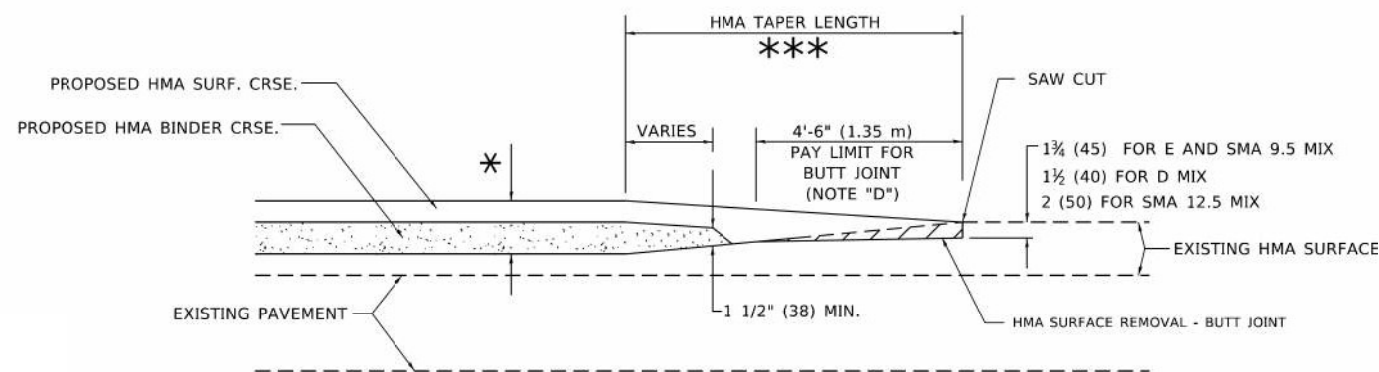
**GENERAL NOTES**

- A. MAINLINE ARTERIAL ROADWAYS AND MAJOR SIDE ROADS.
- A1. INTERSTATES
- 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' - 4" (1.02m) PER 1 INCH (25 mm) OF MILLING THICKNESS.  
\* SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- F. SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".  
\*\*\* 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**

- 1. 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".
- 2. THE TEMPORARY RAMP AND SAW CUT SHALL BE INCLUDED IN THE UNIT COST FOR HMA OR PCC SURFACE REMOVAL-BUTT JOINT.

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



**BUTT JOINT AND HMA TAPER**

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

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE - BUTT JOINT AND HMA TAPER DETAILS (BD-32)

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2845	FAU 2845 22 BJ	COOK	35	30
CONTRACT NO.			62T48	
ILLINOIS FED. AID PROJECT				

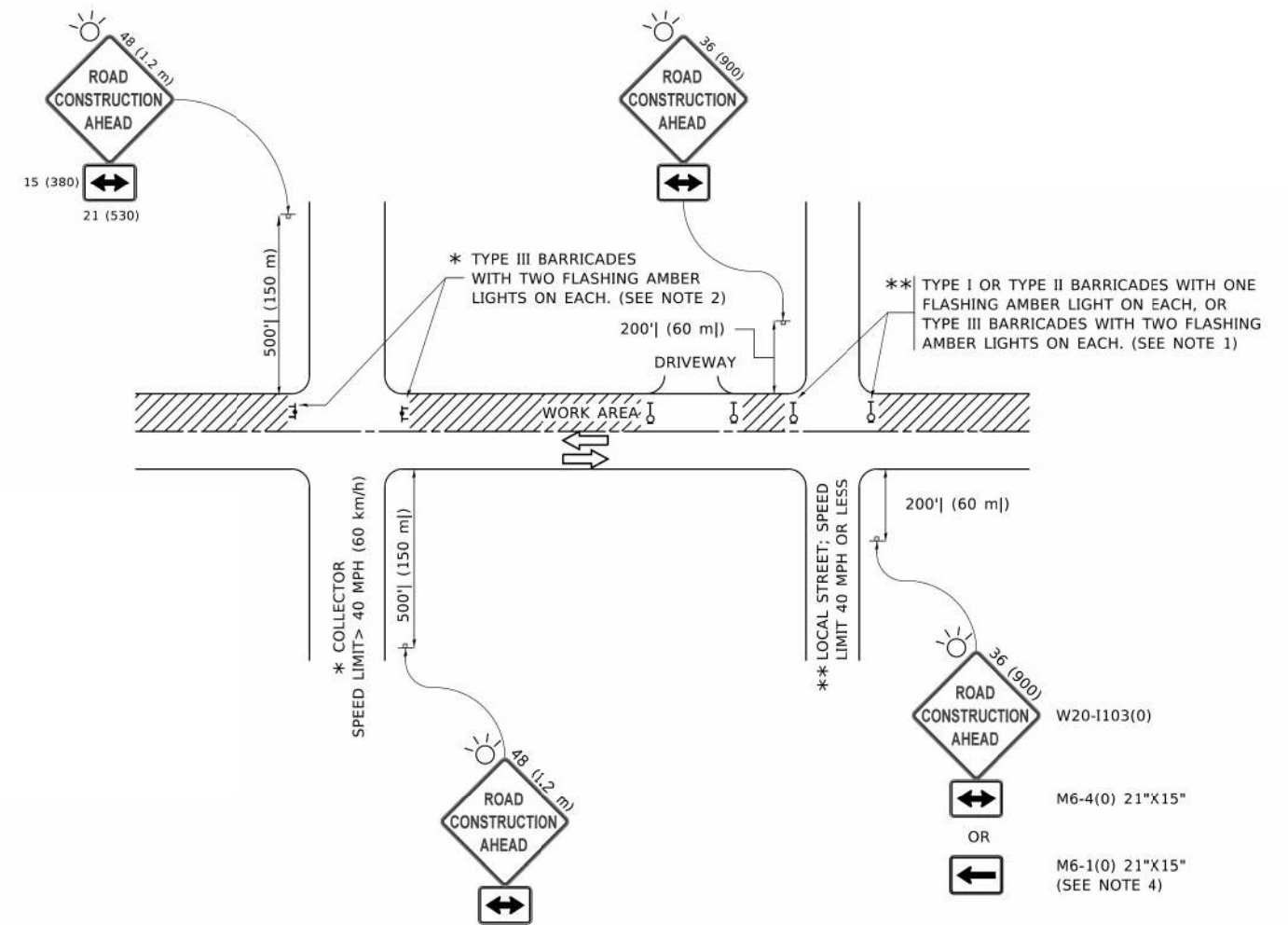
MODEL Path: \\... INFRASTRUCTURE ENGINEERING INCORPORATED 1 South Wacker | Suite 2650 | Chicago, IL 60606 P 312.425.9598 | F 312.425.9594 | www.infrastructure-eng.com

INFRASTRUCTURE ENGINEERING INCORPORATED  
1 South Wacker | Suite 2650 | Chicago, IL 60606  
P 312.425.9598 | F 312.425.9594 | www.infrastructure-eng.com

USER NAME = Alane  
DESIGNED - ART  
DRAWN - ART  
CHECKED - ACL  
DATE - 12/09/2024

REVISOR -  
REVISION -  
REVISOR -  
REVISION -

PLOT SCALE = 20,0000 \* / in.  
PLOT DATE = 12/9/2024



**NOTES:**

- 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:
  - 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.
  - 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.
- SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
  - 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.
  - 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.
- 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.
- SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
- 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.
- ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
- 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.

MODEL: P:\p\h\... INFRASTRUCTURE ENGINEERING INCORPORATED

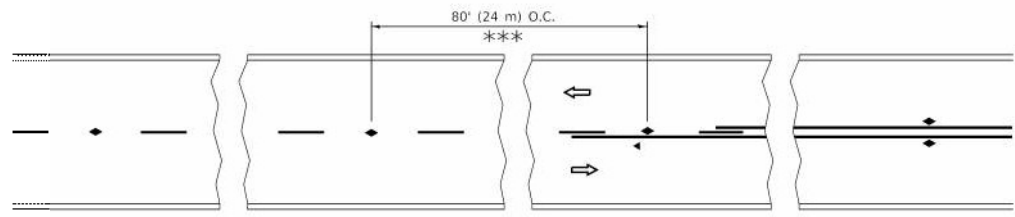
<p><b>INFRASTRUCTURE ENGINEERING INCORPORATED</b> 1 South Wacker   Suite 2650   Chicago, IL 60606 P 312.425.9598   F 312.425.9598   www.infrastructure-eng.com</p>	USER NAME = Alane	DESIGNED - ART	REVISED -
	PLOT SCALE = 20,0000 * / in.	DRAWN - ART	REVISED -
	PLOT DATE = 12/9/2024	CHECKED - ACL	REVISED -
		DATE - 12/09/2024	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE – TRAFFIC CONTROL AND PROTECTION FOR  
SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS (TC-10)**

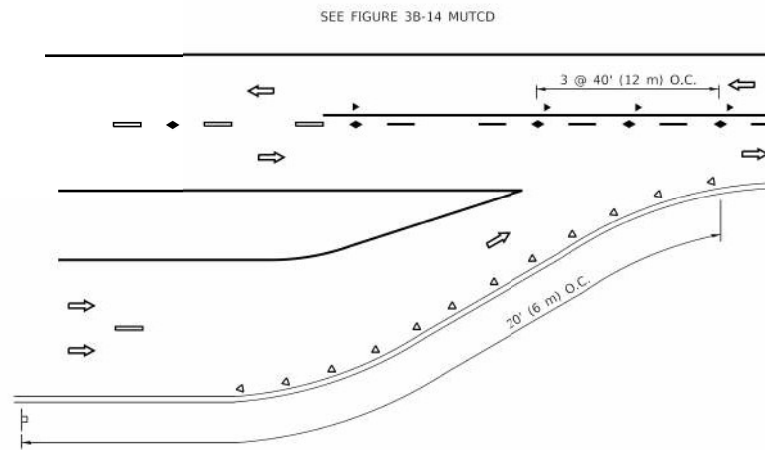
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2845	FAU 2845 22 BJ	COOK	35	31
CONTRACT NO. 62T48			ILLINOIS FED. AID PROJECT	

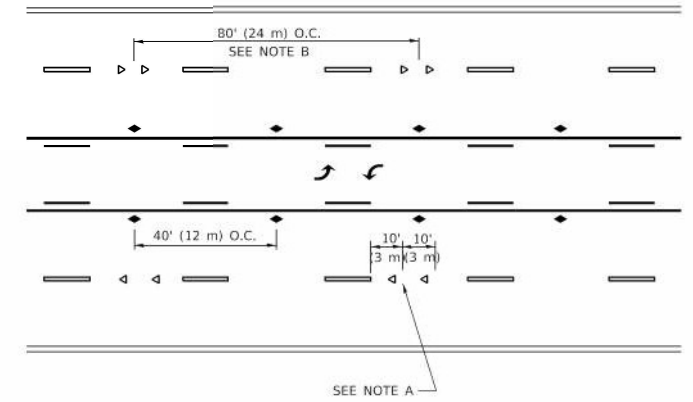


\*\*\* REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

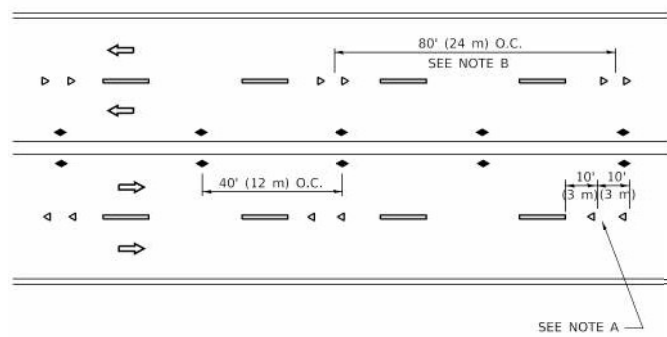
**TWO-LANE/TWO-WAY**



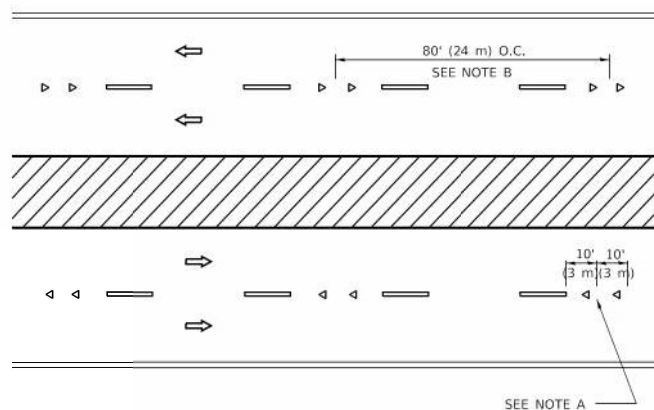
**LANE REDUCTION TRANSITION**



**TWO-WAY LEFT TURN**



**MULTI-LANE/UNDIVIDED**



**MULTI-LANE/DIVIDED**

**GENERAL NOTES**

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

**SYMBOLS**

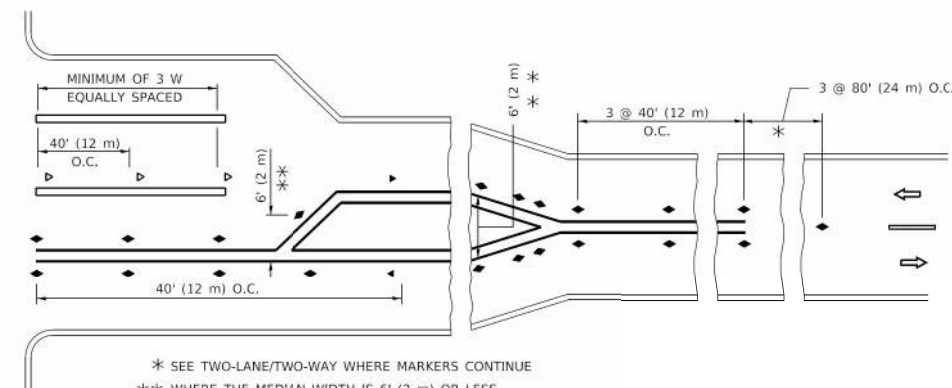
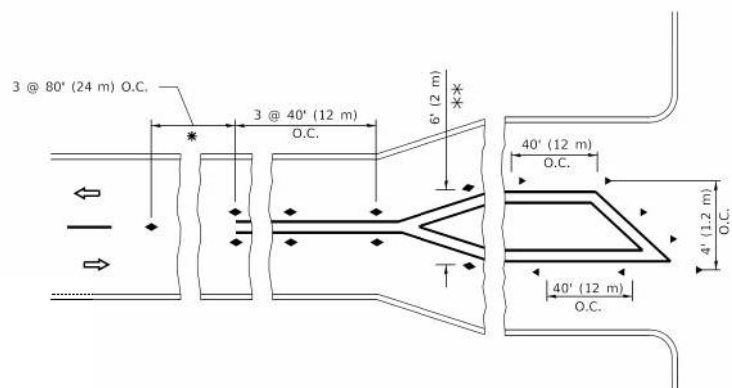
- YELLOW STRIPE
- WHITE STRIPE
- ONE-WAY AMBER MARKER
- ONE-WAY CRYSTAL MARKER (W/O)
- TWO-WAY AMBER MARKER

**LANE MARKER NOTES**

- USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.
- 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**

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



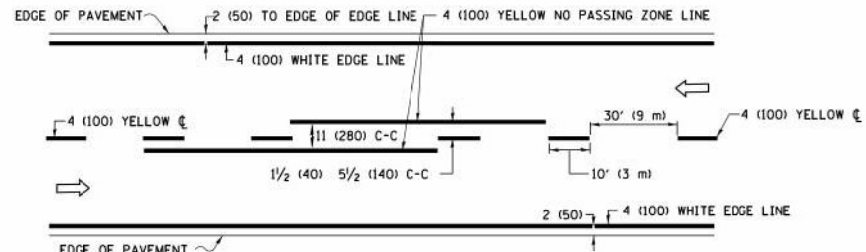
\* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE  
 \*\* WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS USE TWO-WAY MARKERS.

**TURN LANES**

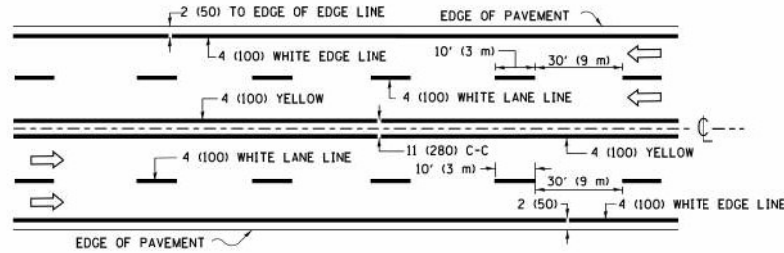
All dimensions are in inches (millimeters) unless otherwise shown.

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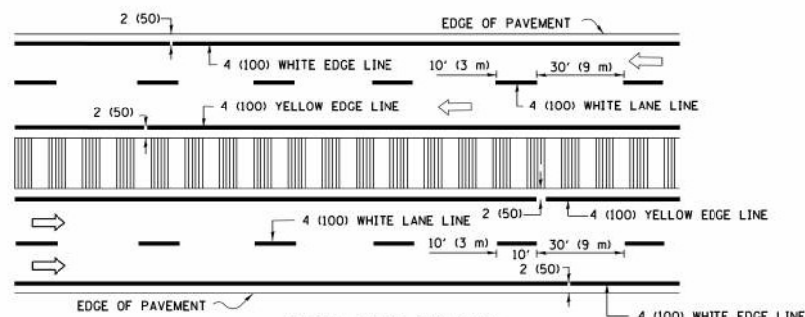




**2-LANE ROADWAY**

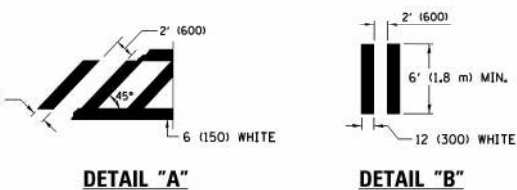
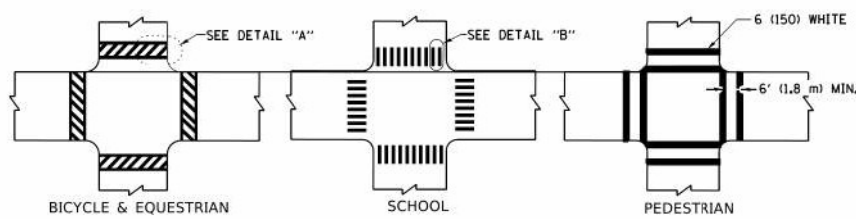


**MULTI-LANE UNDIVIDED**



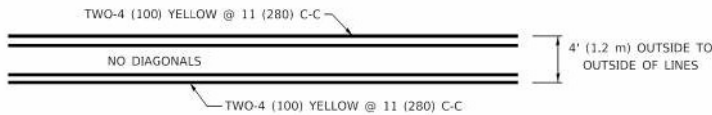
**MULTI-LANE DIVIDED WITH MEDIAN**

**TYPICAL LANE AND EDGE LINE MARKING**

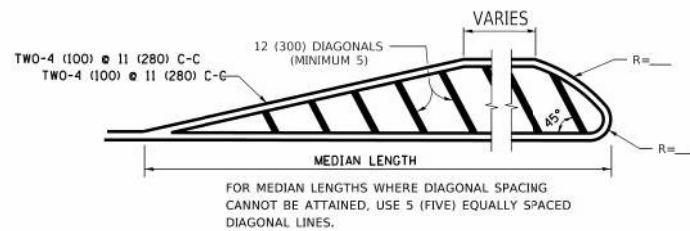


**TYPICAL CROSSWALK MARKING**

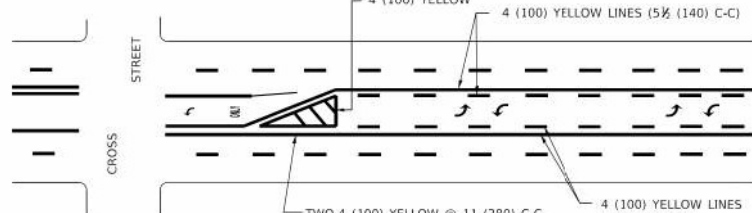
\* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES



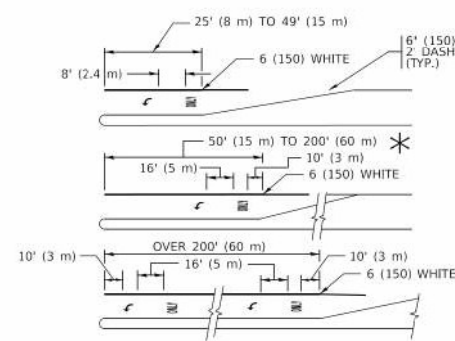
**4' (1.2 m) WIDE MEDIANS ONLY**



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

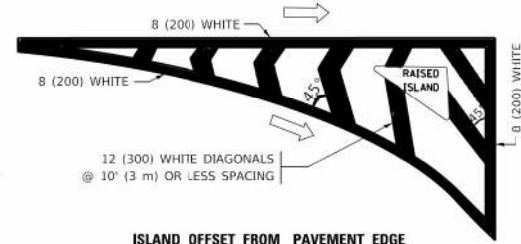


**MEDIAN WITH TWO-WAY LEFT TURN LANE TYPICAL PAINTED MEDIAN MARKING**

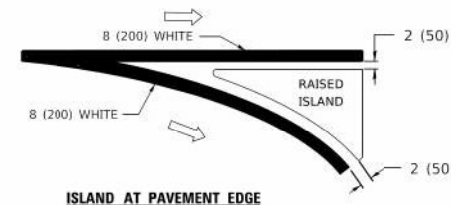


FULL SIZE LETTERS 8" (2.4 m) AND ARROWS SHALL BE USED.  
 AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²)  
 TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

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

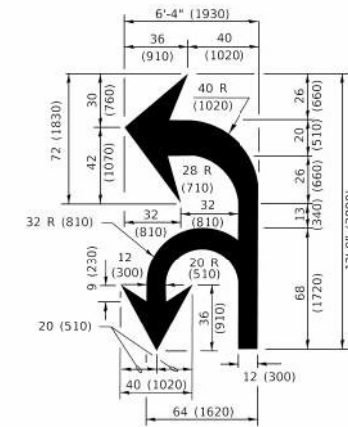


**ISLAND OFFSET FROM PAVEMENT EDGE**

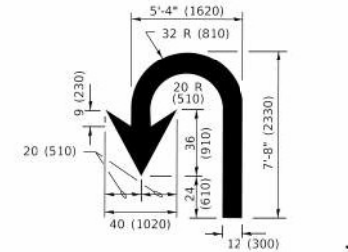


**ISLAND AT PAVEMENT EDGE**

**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	5½ (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; 5½ (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" 15 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 m²) EACH "X"=54.0 SQ. FT. (5.0 m²)
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.

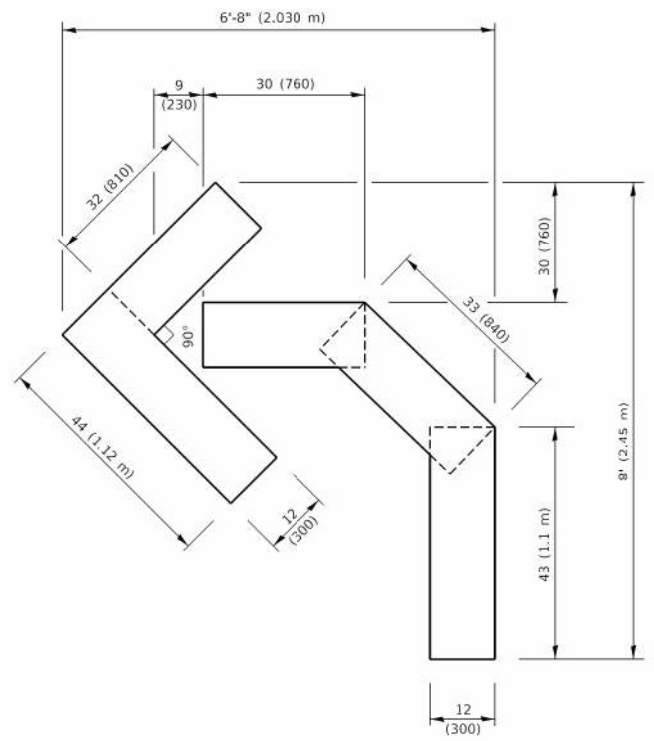
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<b>INFRASTRUCTURE ENGINEERING</b> INCORPORATED 1 South Wacker   Suite 2650   Chicago, IL 60606 P 312.475.9594   F 312.475.5594   www.infrastructure-eng.com	USER NAME = A.lane	DESIGNED - ART	REVISED -
	PLOT SCALE = 20,0000 */ in.	DRAWN - ART	REVISED -
	PLOT DATE = 12/9/2024	CHECKED - ACL	REVISED -
		DATE - 12/09/2024	REVISED -

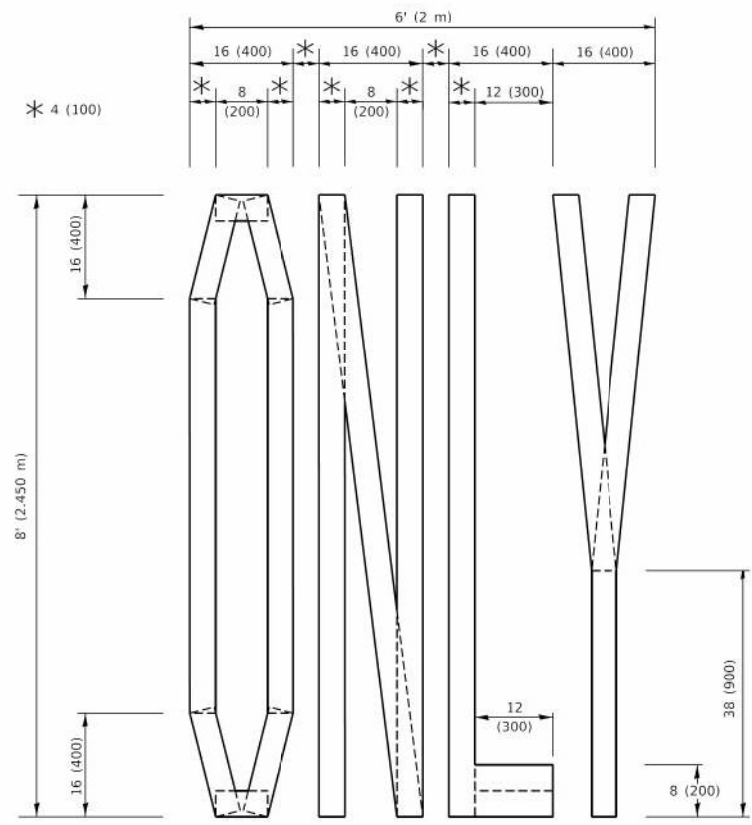
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE – TYPICAL PAVEMENT MARKINGS (TC-13)**

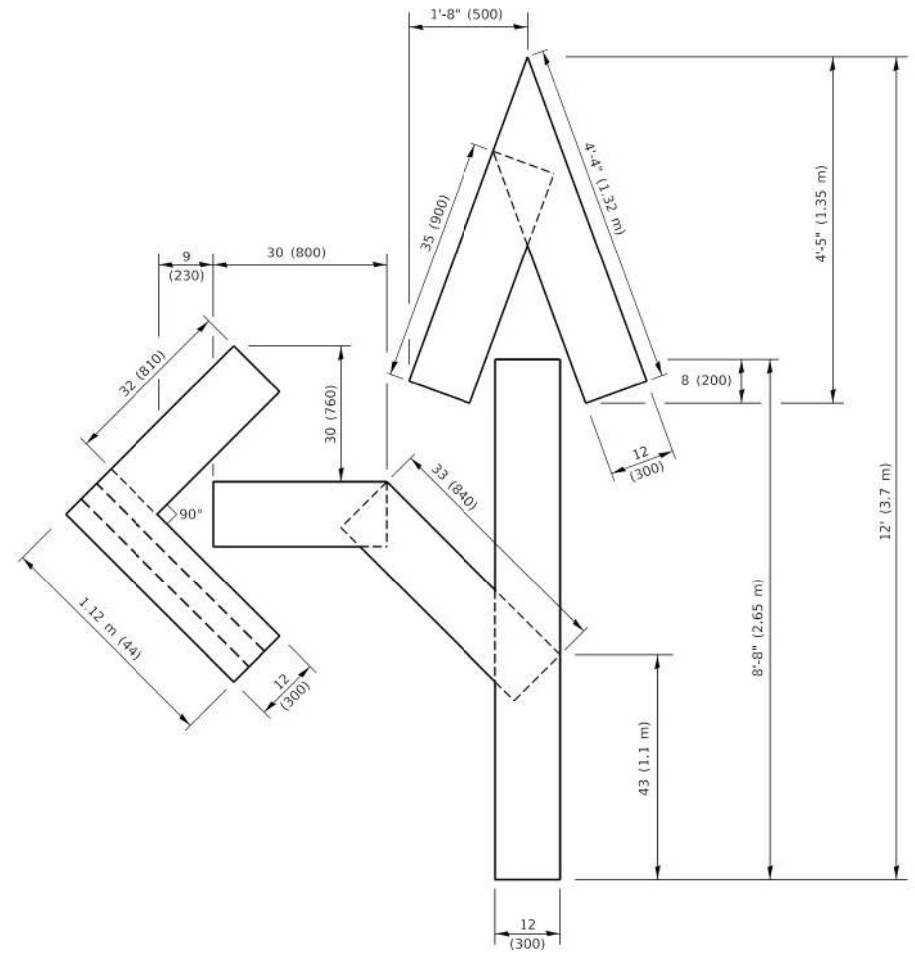
SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.	F.A.U. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
							2845	FAU 2845 22 BJ	COOK	35	33
								CONTRACT NO.		62T48	
						ILLINOIS		FED. AID PROJECT			



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

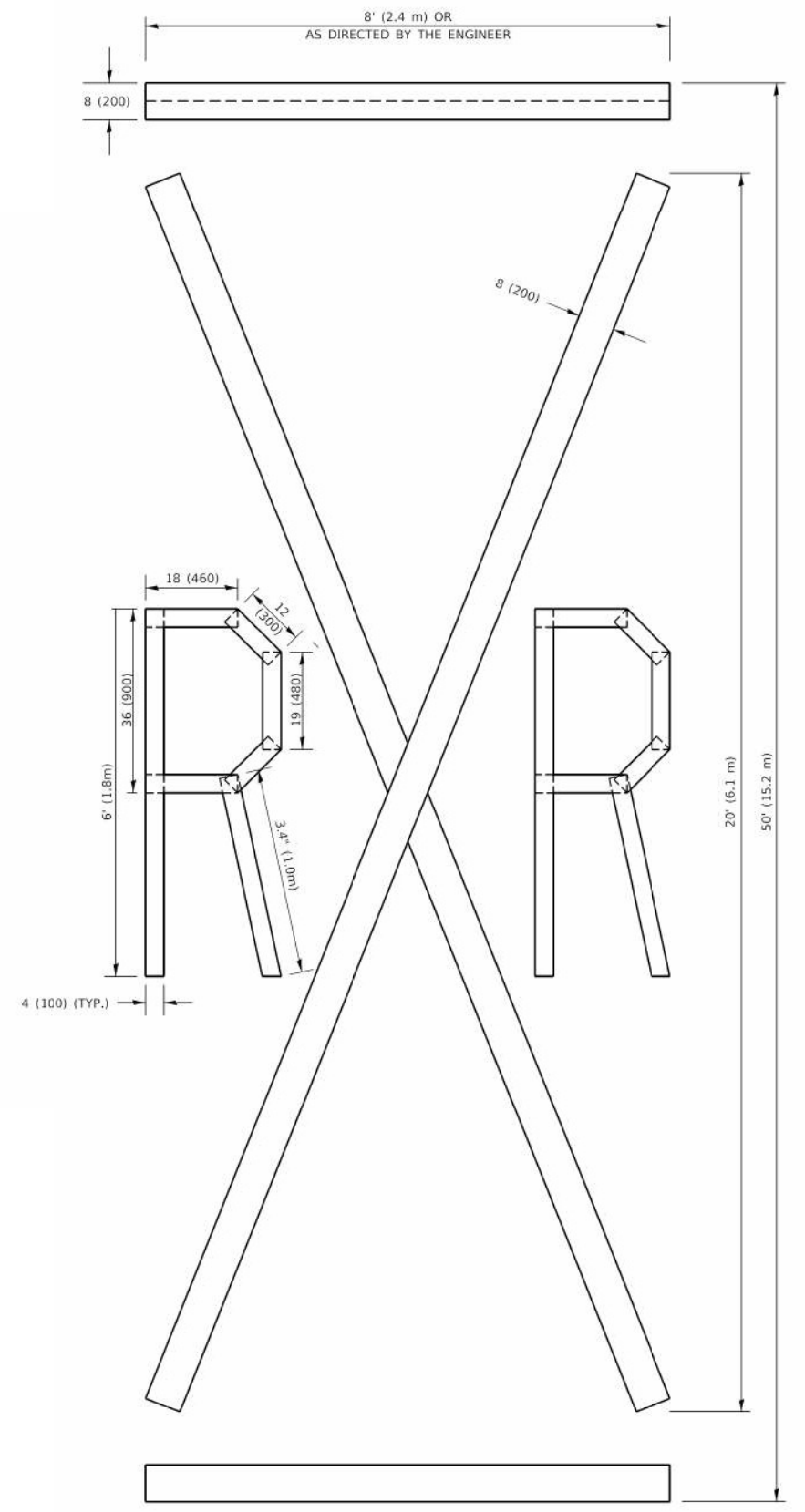


**QUANTITY**  
 4 (100) LINE = 64.1 ft. (19.5 m)  
 21.4 sq. ft. (1.99 sq. m)



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

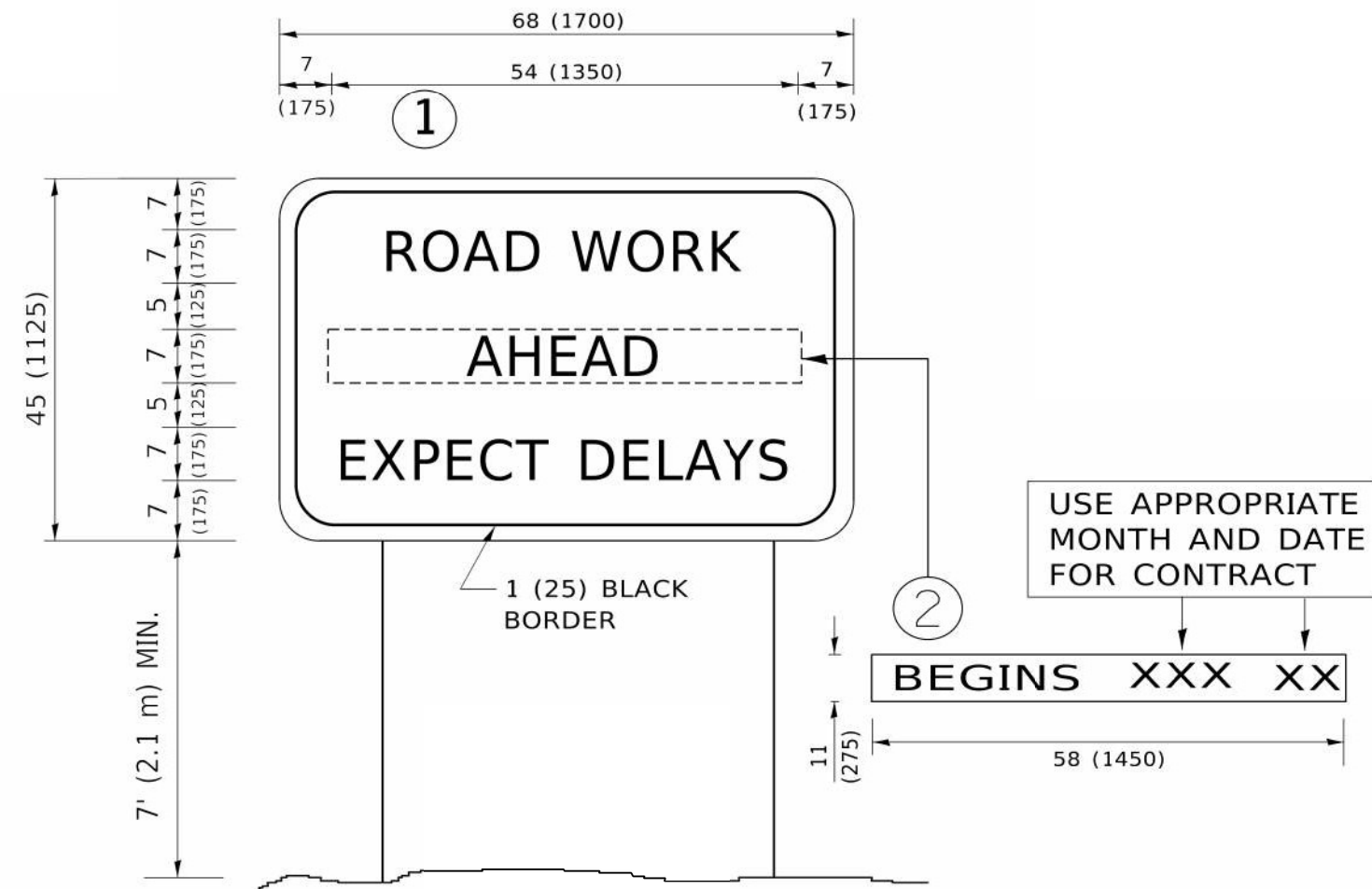
**NOTE:**  
 ALL QUANTITIES OF PLACEMENT ARE REPRESENTED IN LINEAR FEET OF 4" LINES TO MATCH THE 4" TEMPORARY TAPE PAY ITEM AND REPRESENTS THE TOTAL QUANTITY OF 4" TAPE REQUIRED.



**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.

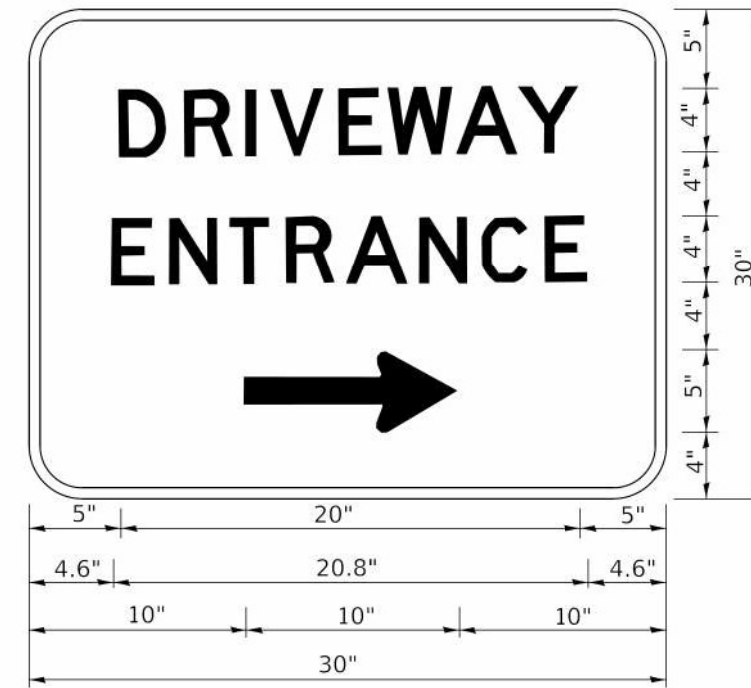
MODEL: P:\p\inf\...  
 FILE NAME: \COMMON\PROJECTS\H9-2232-4675-00\DOT\_Vorflow\_Phase\_2\PTB\_206-002\W07\_62748\DCM\CADD\_Sheets\62748-shc-2845-03-05.dgn



**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.



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".

MODEL: P:\d\inf\... FILE NAME: I:\CULSVR\1\PROJECTS\HP-222-222-4675-00\DOT\_VoBois\_Phase\_2\PTB\_206-002\1\WO\_07\_02\148\DOT\CAD\5\_Sheets\62T48-CH-AR-03\03-06.dgn

<b>INFRASTRUCTURE ENGINEERING INCORPORATED</b> 1 South Wacker   Suite 2650   Chicago, IL 60606 P 312.425.9598   F 312.425.9594   www.infrastructure-eng.com	USER NAME = Alane	DESIGNED - ART	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>DISTRICT ONE - ARTERIAL ROAD INFORMATION SIGN (TC-22) / DRIVEWAY ENTRANCE SIGNING (TC-26)</b>	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 20,0000 * / in.	DRAWN - ART	REVISED -			2845	FAU 2845 22 BJ	COOK	35	35
PLOT DATE = 12/9/2024	CHECKED - ACL	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.		ILLINOIS FED. AID PROJECT		CONTRACT NO. 62T48		