

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

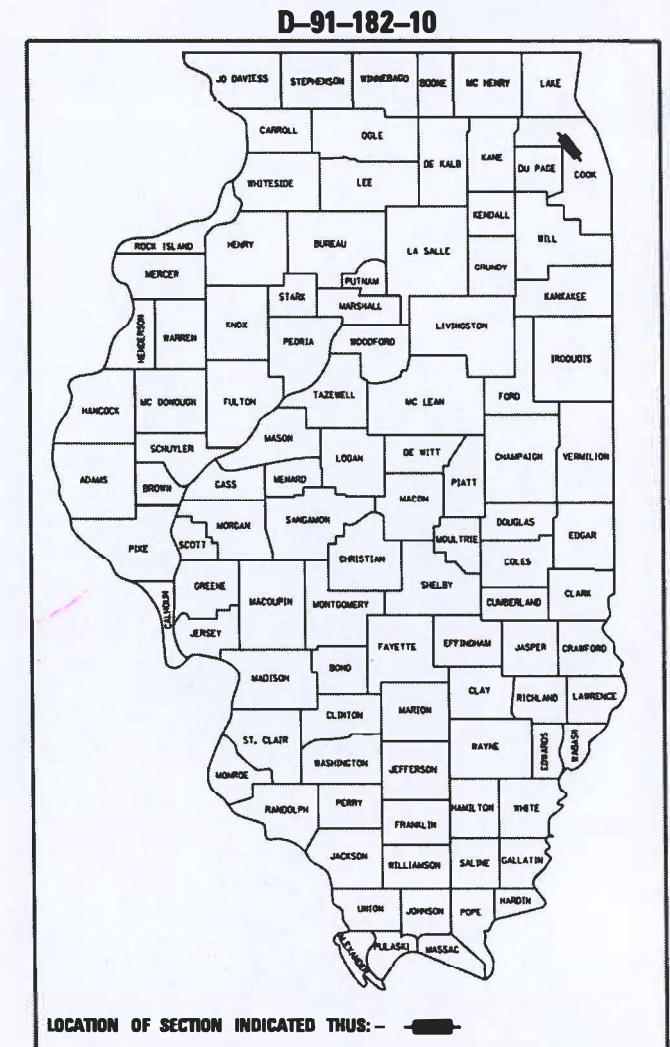
F.A.U. RTE.	SECTION	COUNTY	* TOTAL SHEETS	SHEET NO.
3523	120-Y-B	COOK	267	1
ILLINOIS			CONTRACT NO. 60J10	
* 267 + 3 = 300 TOTAL SHEETS				

FOR INDEX OF SHEETS, LIST OF HIGHWAY STANDARDS, AND LIST OF DISTRICT 1 STANDARD DETAILS, SEE SHEET NO. 3

**PROPOSED  
HIGHWAY PLANS**

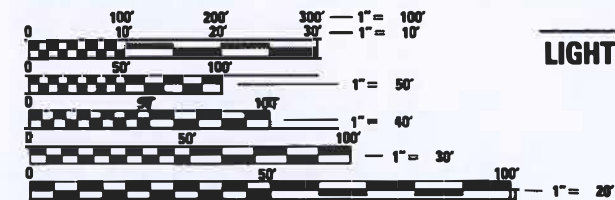
FAU ROUTE 3523 (RAND ROAD)  
SECTION 120-Y-B  
PROJECT HBFP-STP-IIWB(903)  
RAND ROAD OVER DES PLAINES RIVER  
BRIDGE AND ROADWAY RECONSTRUCTION  
ELK BLVD. TO BALLARD RD.  
COOK COUNTY  
C-91-182-10

THIS PROJECT IS LOCATED IN THE CITY OF DES PLAINES  
MAINE TOWNSHIP - SECTION 16



**DESIGN DESIGNATION**  
MINOR ARTERIAL  
DESIGN SPEED = 40 MPH  
POSTED SPEED = 40 MPH

**TRAFFIC DATA**  
2023 EXISTING ADT = 25,500  
2050 PROPOSED ADT = 28,000

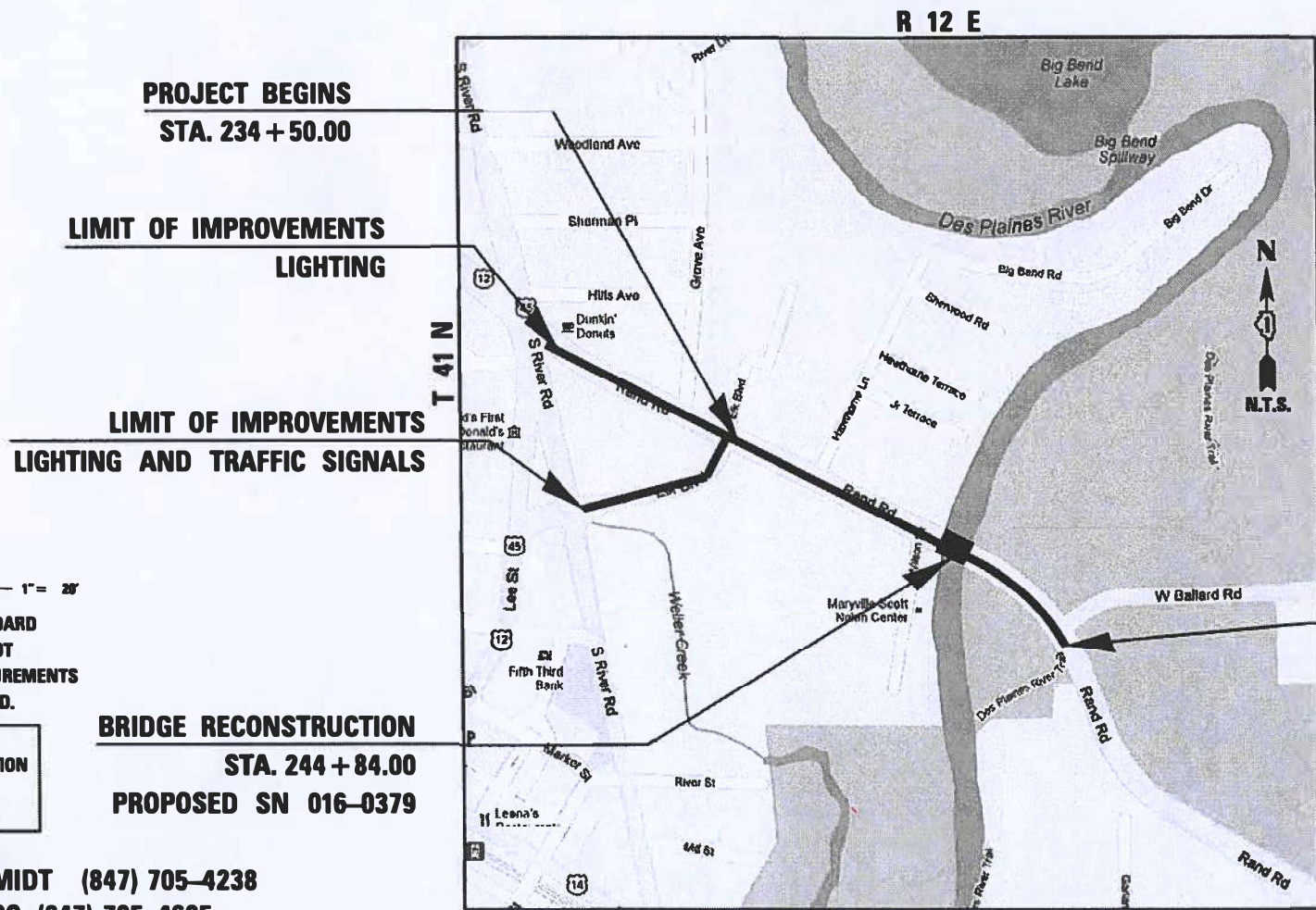


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

PROJECT ENGINEER: TIMOTHY P. SCHMIDT (847) 705-4238  
PROJECT MANAGER: JOSEPH D. CROSS (847) 705-4605

CONTRACT NO. 60J10



GROSS LENGTH = 1843.5 FT. = 0.349 MILE  
NET LENGTH = 1843.5 FT. = 0.349 MILE

**RS&M** 2580 FOXFIELD RD., SUITE 301  
ST. CHARLES, IL 60174

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED Jan 25 2024  
Joseph D. Cross REGIONAL ENGINEER

May 10, 2024 [Signature]  
ENGINEER OF DESIGN AND ENVIRONMENT

May 10, 2024 [Signature]  
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

**PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS**

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**HIGHWAY STANDARDS**

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 001006 DECIMAL OF AN INCH AND OF A FOOT  
 280001-07 TEMPORARY EROSION CONTROL SYSTEMS  
 420001-10 PAVEMENT JOINTS  
 420101-07 24' JOINTED PCC PAVEMENT  
 420401-13 PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB  
 424001-11 PERPENDICULAR CURB RAMPS FOR SIDEWALKS  
 424026-03 ENTRANCE / ALLEY PEDESTRIAN CROSSINGS  
 542001-06 CONCRETE END SECTIONS FOR PIPE CULVERTS  
 15" (375 mm) THRU 84" (2100 mm) DIA  
 542301-03 PRECAST REINFORCED CONCRETE FLARED END SECTION  
 601001-05 PIPE UNDERDRAINS  
 602001-02 CATCH BASIN TYPE A  
 602011-02 CATCH BASIN TYPE C  
 602301-04 INLET - TYPE A  
 602401-07 MANHOLE, TYPE A, 4' (1.22m) DIAMETER  
 602402-03 MANHOLE, TYPE A, 5' (1.52m) DIAMETER  
 602406-11 MANHOLE TYPE A, 6' (1.83m) DIAMETER  
 602411-09 MANHOLE TYPE A, 7' (2.13m) DIAMETER  
 602601-06 PRECAST REINFORCED CONCRETE FLAT SLAB TOP  
 604001-05 FRAME AND LIDS, TYPE 1  
 604036-03 GRATE, TYPE 8  
 604041-03 FRAME AND GRATE, TYPE 9  
 604056-04 FRAME AND GRATE, TYPE 11V  
 604091-05 FRAME AND GRATE, TYPE 24  
 606001-08 CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER  
 630001-13 STEEL PLATE BEAM GUARDRAIL  
 630116 BACK SIDE PROTECTION OF GUARDRAIL  
 630301-09 SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS  
 631031-18 TRAFFIC BARRIER TERMINAL, TYPE 6  
 701006-05 OFF-ROAD OPERATIONS, 2L, 2W, 15' (4.5m) TO 24" (600 mm) FROM PAVEMENT EDGE  
 701106-02 OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' (4.5 M) AWAY  
 701101-05 OFF-ROAD OPERATIONS, MULTILANE, 15' (4.5m) TO 24" (600 mm) FROM PAVEMENT EDGE  
 701301-04 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS  
 701311-03 LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY  
 701427-05 LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS < 40 MPH  
 701501-06 URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED  
 701602-10 URBAN LANE CLOSURE, MULTILANE, 2W WITH BIDIRECTIONAL LEFT TURN LANE  
 701606-10 URBAN SINGLE LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN  
 701611-01 URBAN HALF ROAD CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN  
 701701-10 URBAN LANE CLOSURE, MULTILANE INTERSECTION  
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 704001-08 TEMPORARY CONCRETE BARRIER  
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 720006-04 SIGN PANEL ERECTION DETAILS

**HIGHWAY STANDARDS, CONTINUED**

725001-01 OBJECT AND TERMINAL MARKERS  
 728001-01 TELESCOPING STEEL SIGN SUPPORT  
 731001-01 BASE FOR TELESCOPING STEEL SIGN SUPPORT  
 780001-05 TYPICAL PAVEMENT MARKINGS  
 782006-01 GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS  
 812001-01 RACEWAY EMBEDDED IN STRUCTURE  
 814001-03 HANDHOLES  
 821101-02 LUMINAIRE WIRING IN POLE  
 825011-04 LIGHTING CONTROLLER PEDESTAL, MOUNTED, 240V  
 830001-03 LIGHT POLE ALUMINUM MAST ARM  
 838001-01 BREAKAWAY DEVICES  
 857001-01 STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES  
 862001-01 UNINTERRUPTABLE POWER SUPPLY (UPS)  
 877001-08 STEEL MAST ARM ASSEMBLY AND POLE 16' THROUGH 55'  
 878001-11 CONCRETE FOUNDATION DETAILS  
 880001-01 SPAN WIRE MOUNTED SIGNALS AND FLASHING BEACON INSTALLATION  
 880006-01 TRAFFIC SIGNAL MOUNTING DETAILS  
 886001-01 DETECTOR LOOP INSTALLATIONS  
 886006-01 TYPICAL LAYOUTS FOR DETECTION LOOPS

**IDOT DISTRICT 1 STANDARD DETAILS**

BD-01 DRIVEWAY DETAIL - DISTANCE BETWEEN R.O.W. AND FACE OF CURB & EDGE OF SHOULDER GREATER THAN OR EQUAL TO 15' (4.5m)  
 BD-02 DRIVEWAY DETAILS DISTANCE BETWEEN ROW AND FACE OF CURB LESS THAN 15' (4.5m)  
 BD-12 MANHOLE WITH RESTRICTOR PLATE  
 BD-48 PCC PAVEMENT ROUNDOUTS AT CURB AND GUTTER  
 BE-240 COMBINATION LIGHTING, TRAFFIC SIGNAL SCHEMATIC  
 BE-305 LIGHT POLE FOUNDATION METAL  
 BE-310 LIGHT POLE FOUNDATION OFFSET 40' (12.192m) TO 47' 1/2' (14.478m) MH 15" (381mm) BOLT CIRCLE  
 BE-400 ALUMINUM LIGHT POLE 47'-6" (14.478 m) MOUNTING HEIGHT  
 BE-701 LUMINAIRE SAFETY CABLE ASSEMBLY  
 BE-702 MISC. ELECTRICAL DETAILS SHEET A  
 TC-10 TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS AND DRIVEWAYS  
 TC-11 TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)  
 TC-13 DISTRICT ONE TYPICAL PAVEMENT MARKINGS  
 TC-14 TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)  
 TC-16 SHORT-TERM PAVEMENT MARKING LETTERS AND SYMBOLS  
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 TC-26 DRIVEWAY ENTRANCE SIGNING  
 TS-02 DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGNS  
 TS-05 DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS



REVISOR'S MARK: REVISED ENTIRE SHEET 5/28/2024

FILE NAME = DIS0110-ht-index&std01.dgn



USER NAME = FmowicM	DESIGNED - MCK	REVISED -
	DRAWN - MCK	REVISED -
PLOT SCALE = 20.0000' / 1 in.	CHECKED - JRS	REVISED -
PLOT DATE = 5/3/2024	DATE - 01/10/2024	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS AND LIST OF STANDARDS

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3523	120-Y-B	COOK	267	3
CONTRACT NO. 60J10				
ILLINOIS FED. AID PROJECT				

REV-SEP

**GENERAL NOTES**

1. ALL CONSTRUCTION SHALL BE DONE ACCORDING TO "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED JANUARY 1, 2022, "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS" ADOPTED JANUARY 1, 2024, THE DETAILS IN THESE PLANS, AND THE SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS.
2. THE CONTRACTOR SHALL NOTIFY THE AGENCIES AND UTILITIES AT LEAST 10 DAYS PRIOR TO ANY CONSTRUCTION IN THE AREA AND SHALL COMPLY WITH ALL RESTRICTIONS FOR EQUIPMENT MOVEMENTS AND CLEARANCES IN REGARDS TO THEIR FACILITIES.
3. THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR KALPANA KANNAN HOSADURGA, AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
4. 48 HOURS PRIOR TO THE START OF ANY EXCAVATION, THE CONTRACTOR SHALL CALL J.U.L.I.E. AT (800) 892-0123 FOR VERIFICATION OF ALL UTILITY LOCATIONS IN THE FIELD.
5. THE CONTRACTOR SHALL COORDINATE WITH ALL ABOVE AND UNDERGROUND UTILITY COMPANIES IF UTILITIES NEED TO BE RELOCATED.
6. THE CONTRACTOR SHALL ENSURE ALL PERMITS HAVE BEEN OBTAINED PRIOR TO COMMENCEMENT OF WORK.
7. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND CITY OF DES PLAINES.
8. THE CONTRACTOR SHALL COORDINATE WITH COMED, AND ENSURE THAT THE HIGH-VOLTAGE UNDERGROUND TRANSMISSION LINE IS UNDISTURBED AND PROTECTED DURING CONSTRUCTION. ITS LOCATION SHALL BE FIELD VERIFIED AND APPROPRIATELY MARKED. THE CONSTRUCTION CREW SHALL BE AWARE OF ITS PROXIMITY DURING CONSTRUCTION ACTIVITIES IN THE AREA.
9. THE LOCATION AND ELEVATION OF THE EXISTING UNDERGROUND UTILITIES AS SHOWN ON THE DRAWINGS ARE APPROXIMATE. THE CONTRACTOR SHALL USE SPECIAL CARE WHEN CONDUCTING CONSTRUCTION OPERATIONS NEAR THEM AND IS RESPONSIBLE FOR ANY DAMAGE CAUSED.
10. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE, COUNTY, OR MUNICIPAL PROPERTY WITHOUT WRITTEN PERMISSION FROM THE JURISDICTIONAL AGENCY OR MUNICIPALITY.
11. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR JOB SITE SAFETY AS WELL AS SUPERVISION, DIRECTION AND MEANS/METHOD OF CONSTRUCTION.
12. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL SECTION OR SUBSECTION MONUMENTS AND PROPERTY MARKERS UNTIL THE OWNER, AN AUTHORIZED AGENT, OR LAND SURVEYOR HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION. THE CONTRACTOR WILL BE RESPONSIBLE FOR HAVING AN AUTHORIZED SURVEYOR REESTABLISH ANY SECTION OR SUB-SECTION MONUMENTS DISRUPTED BY THEIR OPERATIONS. THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED.
13. THE SCALE SHOWN ON THE DRAWINGS APPLIES ONLY TO FULL SIZE PLANS AND NOT TO THE REDUCED SIZE PLANS. DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
14. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
15. PROPOSED SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2.00%, AS DETERMINED BY THE ENGINEER. SIDEWALK EXCEEDING 2.00% CROSS SLOPE SHALL BE RECONSTRUCTED BY THE CONTRACTOR AT NO ADDITIONAL COST.
16. TEN FOOT TRANSITIONS SHALL BE USED TO MATCH PROPOSED COMBINATION CONCRETE CURB AND GUTTER TO EXISTING COMBINATION CONCRETE CURBS AND GUTTERS, UNLESS OTHERWISE SHOWN. THE TRANSITIONS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE APPLICABLE TYPE OF COMBINATION CONCRETE CURB AND GUTTER.
17. THE CONTRACTOR SHALL BE REQUIRED TO MAINTAIN ACCESS TO ALL PRIVATE AND COMMERCIAL PROPERTIES AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.
18. ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE THE REMOVAL LIMITS SHOWN ON THE PLANS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
19. THE EARTHEN LEVEE SHOULD IN NO WAY BE DISTURBED DURING CONSTRUCTION.
20. WHERE SPECIFIED ON THE PLANS, OR DIRECTED BY THE ENGINEER, TRIMMING OF VEGETATION WILL BE CONSIDERED TO BE CLEARING AND NOT MEASURED FOR PAYMENT.
21. THE CONTRACTOR'S ATTENTION IS CALLED TO THE FACT THAT THE PRESERVATION OF EXISTING TREES IS OF UTMOST IMPORTANCE TO THE FOREST PRESERVE DISTRICT OF COOK COUNTY. ALL TREE PROTECTION SHALL BE COMPLETED BEFORE CONSTRUCTION OPERATIONS COMMENCE.
22. THE CONTRACTOR SHALL ERECT A TEMPORARY FENCE ALONG R.O.W. LINE ADJACENT TO THE FOREST PRESERVE DISTRICT OF COOK COUNTY AND THE SOUTH BRIDGE ABUTMENT TEMPORARY EASEMENT BEFORE ANY CONSTRUCTION BEGINS. REMOVE PROTECTIVE TEMPORARY FENCE ONLY AFTER ALL CONSTRUCTION WORK HAS BEEN COMPLETED.
23. THE RESIDENT ENGINEER SHALL CONTACT FADI SULTAN, AREA TRAFFIC FIELD ENGINEER AT FADI.SULTAN@ILLINOIS.GOV AT LEAST (2) WEEKS PRIOR TO PLACING PERMANENT PAVEMENT MARKINGS.
24. 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 IL.G.1 AND 2 OF THE SWPPP. 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 UNIT BID PRICES OF THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED. THE SUBGRADE STABILITY SHALL BE VERIFIED BY PROOF ROLLING WITH A FULLY LOADED TANDEM-AXLE TRUCK.
25. THE SUBGRADE STABILITY SHALL BE VERIFIED BY PROOF ROLLING WITH A FULLY LOADED TANDEM-AXLE TRUCK.
26. ANY AGGREGATE SUBGRADE IMPROVEMENT CONTAMINATED AND/OR DAMAGED BY THE CONTRACTOR'S VEHICLES AND/OR EQUIPMENT IS TO BE REMOVED AND REPLACED AS DIRECTED BY THE ENGINEER AT CONTRACTOR'S EXPENSE.
27. AGGREGATE SUBGRADE IMPROVEMENT (CU YD) HAS BEEN PROVIDED FOR USE AT THE LOCATIONS INDICATED FOR SOILS THAT TEND TO BE UNSTABLE AND/OR UNSUITABLE. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH ASI WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE GEOTECHNICAL ENGINEER. ALL POTENTIALLY UNSTABLE SOILS SHOULD BE TESTED WITH A STATIC OR DYNAMIC CONE PENETROMETER AND TREATED IN ACCORDANCE WITH ARTICLE 301.04 OF THE SSRBC AND IDOT SUBGRADE STABILITY MANUAL. IF UNSTABLE AND/OR UNSUITABLE SOILS ARE NOT ENCOUNTERED, THEN THE QUANTITY SHALL BE DEDUCTED AND NO ADDITIONAL COMPENSATION WILL BE DUE TO THE CONTRACTOR.
28. THE AGGREGATE GRADATION FOR THE AGGREGATE SUBGRADE IMPROVEMENT 12" LOWER LIFT SHALL BE CS 1 OR RR 1.
29. PIPE UNDERDRAINS SHALL BE INSTALLED ACCORDING TO SECTION 601 OF THE SSRBC AND STANDARD 601001-05. TOP OF PIPE UNDERDRAINS SHALL BE PLACED MINIMUM 6" BELOW THE AGGREGATE SUBGRADE IMPROVEMENT LAYER. THE COST OF MAKING PIPE UNDERDRAINS CONNECTIONS TO DRAINAGE STRUCTURES SHALL BE INCLUDED IN THE COST OF THE PIPE UNDERDRAINS.
30. THE CONTRACTOR WILL CONTACT THE ROADSIDE DEVELOPMENT UNIT AT (847) 705-4171, AT LEAST (7) DAYS PRIOR TO PLANTING FOR LAYOUT APPROVAL OF THE SEEDING, TREES, SHRUBS, AND PERENNIALS.
31. PREVENT DISRUPTION OF MAIL DELIVERY DURING CONSTRUCTION.
32. THE COMED ENCASED UNDERGROUND TRANSITION LINE, INCLUDING FIBER-OPTIC DUCTS ALONG THE LINE, SHALL REMAIN UNDISTURBED.
33. MWRD SEWER SHALL BE VIDEOTAPED AND RECORDED PRIOR TO AND POST CONSTRUCTION FROM STA. 242+25 TO STA. 249+10

**COMMITMENTS**

NONE

1

FILE NAME = D:\8610-shr-gmnoce2.dgn



USER NAME = F1n0w1cM	DESIGNED - MCK	REVISED -
	DRAWN - MCK	REVISED -
PLOT SCALE = 20.0000' / 1" in.	CHECKED - MXF	REVISED -
PLOT DATE = 4/16/2024	DATE - 01/10/2024	REVISED -

**STATE OF ILLINOIS  
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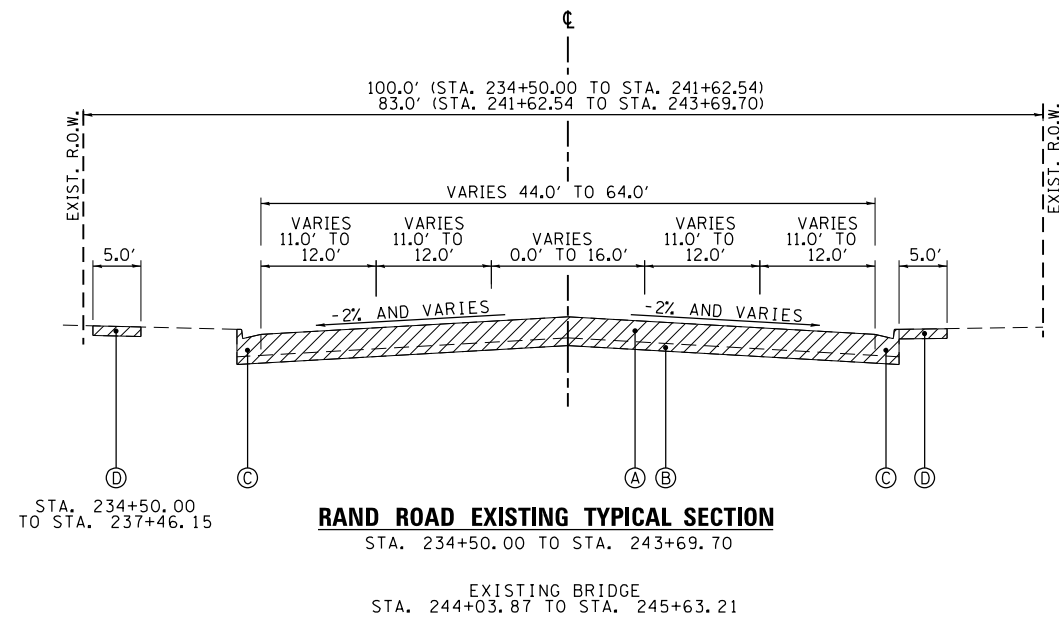
**GENERAL NOTES**

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

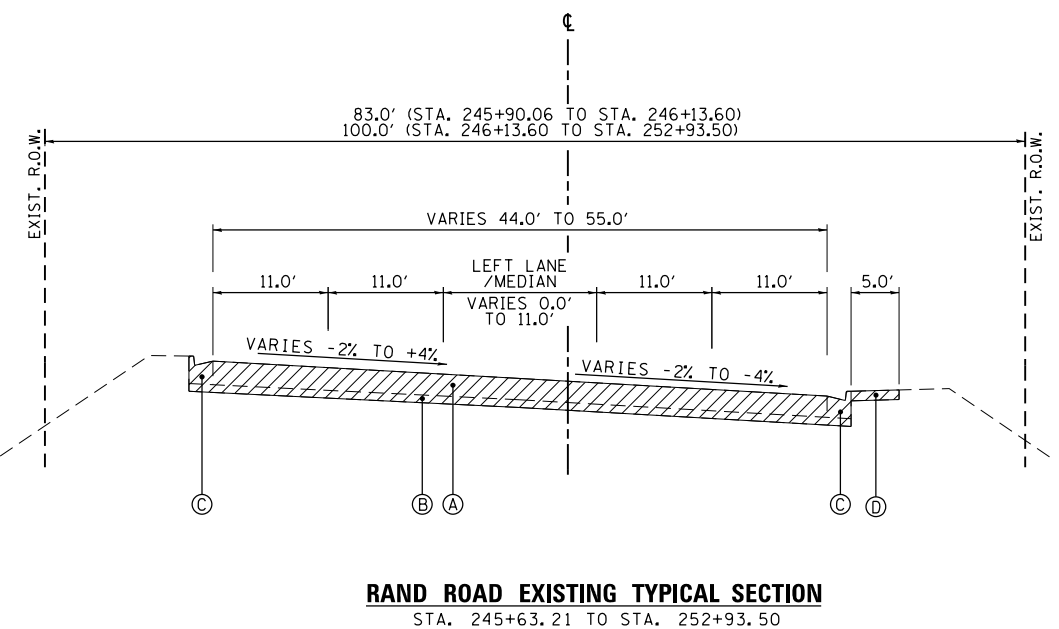
**1** REVISED ENTIRE SHEET 5/28/2024

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3523	120-Y-B	COOK	267	4
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ILLINOIS FED. AID PROJECT				





**RAND ROAD EXISTING TYPICAL SECTION**  
STA. 234+50.00 TO STA. 243+69.70



**RAND ROAD EXISTING TYPICAL SECTION**  
STA. 245+63.21 TO STA. 252+93.50

**EXISTING LEGEND**

- (A) HMA PAVEMENT - 12" AND VARIES
- (B) AGGREGATE BASE COURSE - 4" AND VARIES
- (C) CURB AND GUTTER, TYPE B
- (D) PCC SIDEWALK
- (Hatched Box) REMOVAL ITEMS

**PROPOSED LEGEND**

- (1) PORTLAND CEMENT CONCRETE PAVEMENT, 9" (JOINTED) (42000401)
- (2) AGGREGATE SUBGRADE IMPROVEMENT, 12" (30300112)
- (3) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24 (60603800)
- (4) #5 24" LONG TIE BAR AT 36" CTS.
- (5) #5 30" LONG TIE BAR AT 36" CTS.
- (6) PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH (42400200)
- (7) STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS (63000001)
- (8) BACK SIDE PROTECTION OF GUARDRAIL (63000035) (SOUTH SIDE OF ROAD BY SHARED USE PATH)
- (9) RETAINING WALL
- (10) TOPSOIL FURNISH AND PLACE, 6" (21101625)
- (11) HOT-MIX ASPHALT SHOULDER, 3" (48203009)
- (12) GEOTECHNICAL FABRIC FOR GROUND STABILIZATION (21001000)
  - STA 237+30.00 TO STA 241+00.00
  - STA 241+00.00 TO STA 243+60.00
- (13) PAVEMENT RECONSTRUCTION
  - (13A) 2" HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50 (40604060)
  - (13B) 5" HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50 (40603080)

HOT-MIX ASPHALT MIX REQUIREMENTS		OMP
MIXTURE TYPE	AIR VOIDS @ Ndes	
PAVEMENT RECONSTRUCTION (HAWTHORN LANE)		
HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50; 2"	4% @ 50 GYR	QC/OA
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50; 5"	4% @ 50 GYR	QC/OA
TEMPORARY PAVEMENT		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL 9.5 mm); 2"	4% @ 70 GYR	QC/OA
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70; 8"	4% @ 70 GYR	QC/OA
DRIVEWAYS		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL 9.5, N50; 2"	4% @ 50 GYR	QC/OA
HOT-MIX ASPHALT BASE COURSE (HMA BINDER IL-19.0); PE - 6", CE - 8"	4% @ 50 GYR	QC/OA
HOT MIX ASPHALT SHOULDER, 3" / TEMPORARY SIDEWALK 3"		
HOT-MIX ASPHALT BINDER COURSE IL-19.0; 3"	4% @ 50 GYR	QC/OA
OMP DESIGNATION: QUALITY CONTROL/ QUALITY ASSURANCE (QC/OA); QUALITY CONTROL FOR PERFORMANCE (QCP); PAY FOR PERFORMANCE		

THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SO YD/IN.

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.

ALTERNATIVE PCC TEMPORARY PAVEMENT:  
PC CONCRETE TEMPORARY PAVEMENT SHALL CONSIST OF 9" CLASS PV CONCRETE MEETING THE REQUIREMENTS OF ART. 1020 OF THE STANDARD SPECIFICATIONS. TEMPORARY PCC PAVEMENT DOES NOT REQUIRE DOWEL BARS

STRUCTURAL DESIGN TRAFFIC:	Year	2030
PV =	28,700	SU = 550 MU = 100
ROAD/STREET CLASSIFICATION:	Class	I
PERCENT OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE:		
P =	32%	S = 45% M = 45%
TRAFFIC FACTOR:	Actual TF =	1.4 AC Type = NA
	Minimum TF =	1.4
PG GRADE:	Binder =	NA Surface = NA
SUBGRADE SUPPORT RATING:		
SSR =	POOR	(Sta. 234+50 to 253+26.5)
SSR =		(Sta. _____ to _____)

REVISD ENTIRE SHEET 5/28/2024

FILE NAME = D:\6010-rtt-yp\ca120.dgn

<b>RS&amp;H</b>	USER NAME = F10w1cM	DESIGNED - MCK	REVISED -
	PLOT SCALE = 20.0000' / in.	DRAWN - MCK	REVISED -
	PLOT DATE = 4/16/2024	CHECKED - JRS	REVISED -
		DATE - 01/10/2024	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS	
SCALE: NA	SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3523	120-Y-B	COOK	267	21
CONTRACT NO. 60J10				
ILLINOIS FED. AID PROJECT				



PROPOSED GUARDRAIL SCHEDULE														
ROADWAY	STATION	OFFSET	LT/RT	TO	STATION	OFFSET	LT/RT	LENGTH	63000001 STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS (FOOT)	63000035 BACK SIDE PROTECTION OF GUARDRAIL (FOOT)	63100085 TRAFFIC BARRIER TERMINAL, TYPE 6 (EACH)	63100167 TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT (EACH)	72501000 TERMINAL MARKER - DIRECT APPLIED (EACH)	78200005 GUARDRAIL REFLECTORS, TYPE A (EACH)
RAND RD.	242+95.69	32.75	RT		243+58.18	32.00	RT	62.5	0	62.5	1	1	1	4
RAND RD.	246+29.32	31.34	RT		250+29.91	32.00	RT	387.5	325	387.5	1	1	1	5
RAND RD.	249+13.05	39.00	LT		250+13.07	40.11	LT	100	37.5		1	1	1	4
								TOTAL	362.5	450	3	3	3	13

EARTHWORK SCHEDULE						
AREA LOCATION	EARTH EXCAVATION	ADJUSTED EARTH EXCAVATION (15% SHRINKAGE)	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	EMBANKMENT	AGGREGATE SUBGRADE IMPROVEMENT	EARTHWORK BALANCE WASTE (+) OR SHORTAGE(-)
	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)
RAND ROAD WEST OF THE BRIDGE	198	169	2910	1430	1498	-1261
RAND ROAD EAST OF THE BRIDGE	374	318	351	2437	0	-2119
COMP. STORAGE	1535	1305	1535	300	0	1005
TOTAL VOLUMES	2108	1792	4796	4167	1498	-2375
NOTE: COMP. STORAGE - ASSUMED 50% OF EXCAVATION IS SUITABLE						
20200100 - EARTH EXCAVATION (CU YD) =						2108
20201200 - REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL (CU YD) =						4796
20400800 - FURNISHED EXCAVATION (CU YD) =						2375
30300001 - AGGREGATE SUBGRADE IMPROVEMENT (CU YD) =						1498



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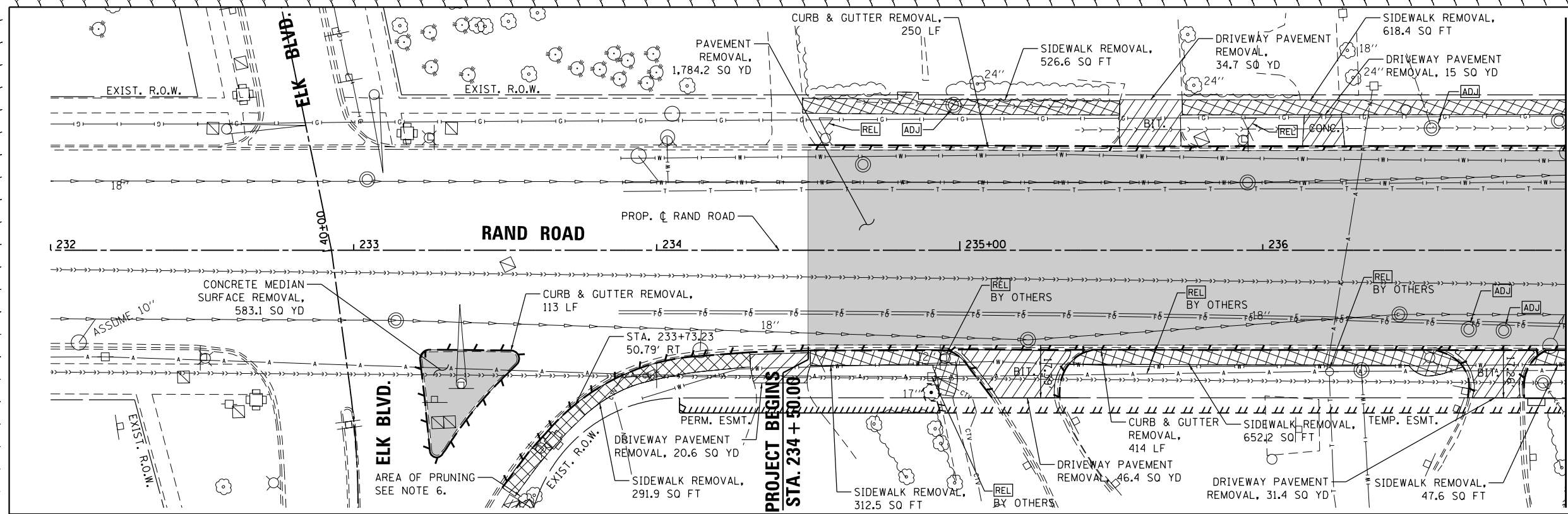
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PLOT DATE = 4/22/2024	DATE - 01/10/2024	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>SCHEDULE OF QUANTITIES</b>			
SCALE: NA	SHEET 1 OF 1 SHEETS	STA.	TO STA.

▲ REVISED ENTIRE SHEET 5/28/2024

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3523	120-Y-B	COOK	267	23
<b>CONTRACT NO. 60J10</b>				
ILLINOIS FED. AID PROJECT				

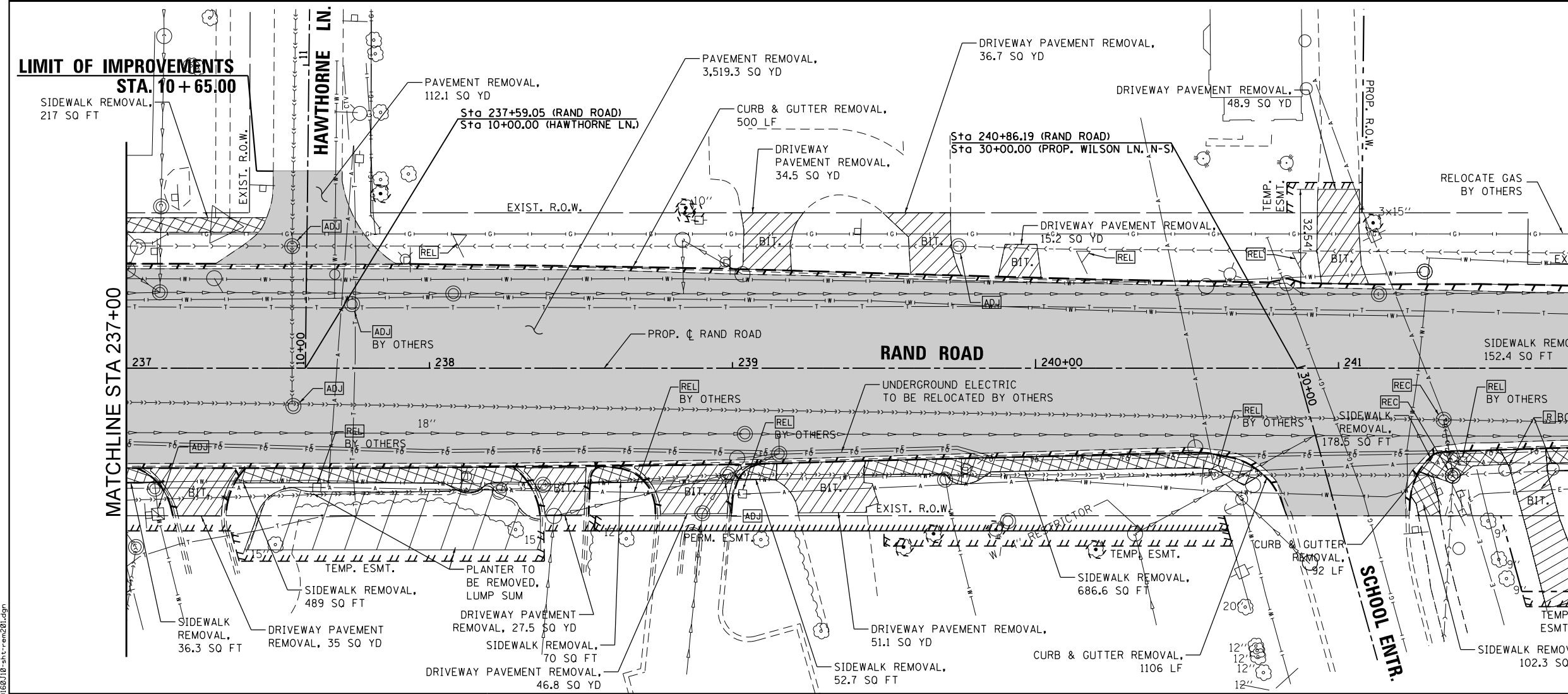


0 20' 40' 60'  
SCALE IN FEET

**REMOVAL LEGEND**

- PAVEMENT REMOVAL
- DRIVEWAY PAVEMENT REMOVAL
- SIDEWALK REMOVAL
- CURB & GUTTER REMOVAL
- GUARDRAIL REMOVAL
- TREE TRUNK PROTECTION

MATCHLINE STA 237+00



0 20' 40' 60'  
SCALE IN FEET

NOTES:

1. SEE SIGNAL PLANS FOR TRAFFIC SIGNAL REMOVALS AND RELOCATIONS.
2. SEE DRAINAGE PLANS FOR DRAINAGE STRUCTURE AND PIPE REMOVALS AND ADJUSTMENTS.
3. SEE LIGHTING PLANS FOR LIGHT POLE REMOVALS AND RELOCATIONS.
4. SEE WATER MAIN PLANS FOR WATER MAIN, VALVE, AND FIRE HYDRANT REMOVALS AND RELOCATIONS.
5. SEE SIGNING PLANS FOR SIGN REMOVALS AND RELOCATIONS.
6. TREE PRUNING IN THE AREA OF THE TRAFFIC SIGNAL EQUIPMENT TO BE DETERMINED BY THE ENGINEER. WORK TO BE INCLUDED IN THE PAY ITEM "PRUNING FOR SAFETY AND EQUIPMENT CLEARANCE".

MATCHLINE STA 242+00



USER NAME = F10w101M	DESIGNED - MCK	REVISED -
PLOT SCALE = 40.0000' / 1" IN.	DRAWN - MCK	REVISED -
PLOT DATE = 4/30/2024	CHECKED - MXF	REVISED -
	DATE - 01/10/2024	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**REMOVAL PLAN  
RAND ROAD**

SCALE: 1" = 20' SHEET 1 OF 3 SHEETS STA. 234+50.00 TO STA. 242+00.00

F.A.U. RTE. 3523	SECTION 120-Y-B	COUNTY COOK	TOTAL SHEETS 267	SHEET NO. 25
CONTRACT NO. 60J10				ILLINOIS FED. AID PROJECT

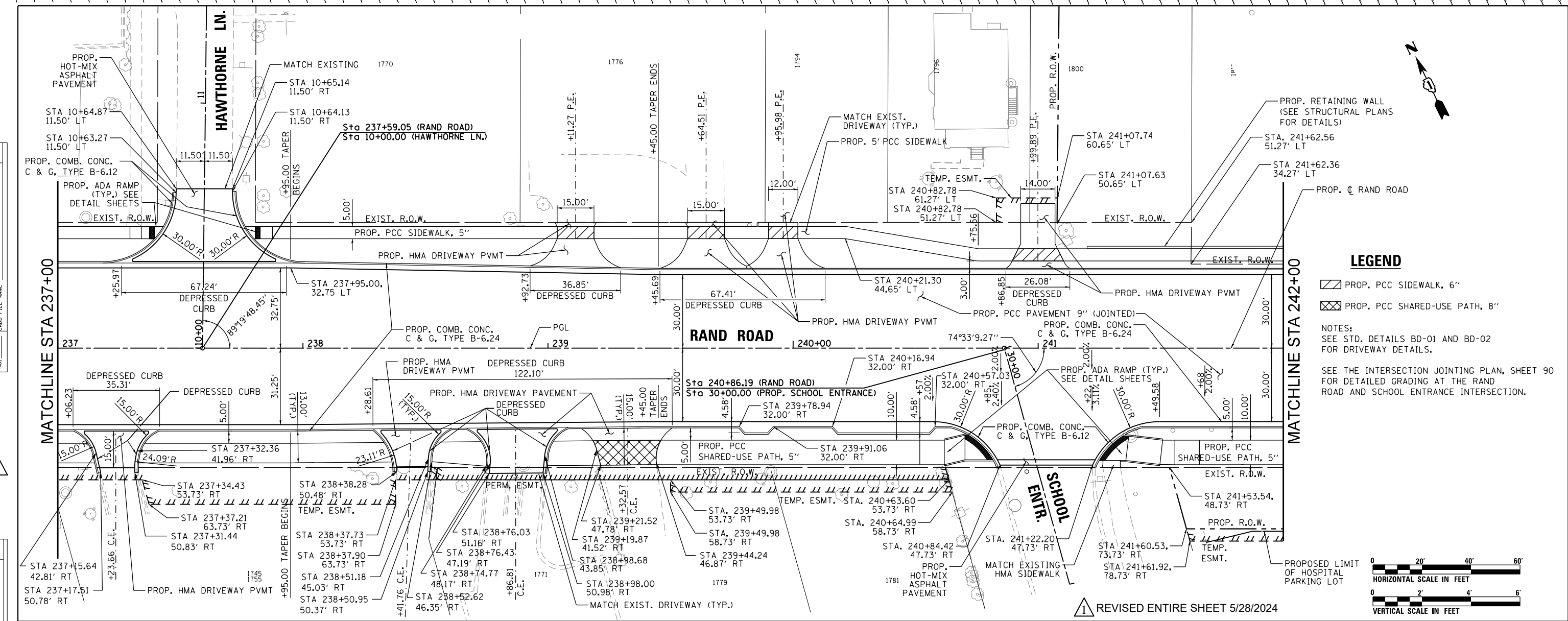
REVISED ENTIRE SHEET 5/28/2024





DATE: \_\_\_\_\_  
 BY: \_\_\_\_\_  
 SURVEYED \_\_\_\_\_  
 PLOTTED \_\_\_\_\_  
 NOTE BOOK \_\_\_\_\_  
 CHECKED \_\_\_\_\_  
 ALIGNED \_\_\_\_\_  
 CAD FILE NAME \_\_\_\_\_

DATE: \_\_\_\_\_  
 BY: \_\_\_\_\_  
 SURVEYED \_\_\_\_\_  
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 NOTE BOOK \_\_\_\_\_  
 CHECKED \_\_\_\_\_  
 STRUCTURE NOTATIONS CHKD \_\_\_\_\_



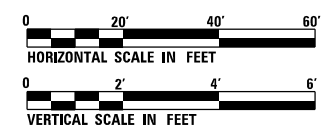
**LEGEND**

▨ PROP. PCC SIDEWALK, 6"

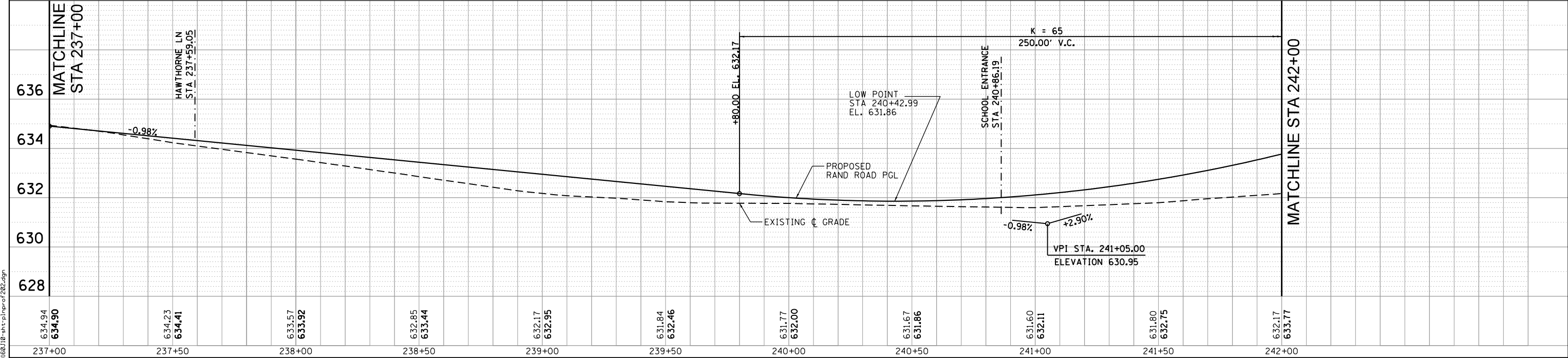
▩ PROP. PCC SHARED-USE PATH, 8"

NOTES:  
 SEE STD. DETAILS BD-01 AND BD-02  
 FOR DRIVEWAY DETAILS.

SEE THE INTERSECTION JOINTING PLAN, SHEET 90  
 FOR DETAILED GRADING AT THE RAND  
 ROAD AND SCHOOL ENTRANCE INTERSECTION.



REVISD ENTIRE SHEET 5/28/2024



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PLOT DATE = 4/29/2024	CHECKED - JRS	REVISED -
	DATE - 01/10/2024	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

PLAN & PROFILE	
RAND ROAD	
SCALE: 1" = 20'	SHEET 2 OF 5 SHEETS
STA. 237+00.00 TO STA. 242+00.00	

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3523	120-Y-B	COOK	267	29
CONTRACT NO. 60J10				
ILLINOIS FED. AID PROJECT				

**STAGE CONSTRUCTION TRAFFIC CONTROL NOTES**

1. THE CONTRACTOR SHALL MAINTAIN TRAFFIC IN ACCORDANCE WITH THE PLANS, SPECIAL PROVISIONS, IDOT HIGHWAY STANDARDS, IDOT STANDARD SPECIFICATIONS, OR AS DIRECTED BY THE ENGINEER.
2. THE ENGINEER SHALL BE INFORMED 48 HOURS IN ADVANCE OF CHANGES IN CONSTRUCTION STAGING.
3. THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR KALPANA KANNAN HOSADURGA, AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
4. ALL CONFLICTING SIGNS, PAVEMENT MARKINGS, AND TRAFFIC CONTROL DEVICES SHALL BE REMOVED OR COVERED AND TEMPORARY TRAFFIC CONTROL MEASURES BE PLACED TO THE SATISFACTION OF THE ENGINEER. EXISTING SIGNS THAT DO NOT CONFLICT WITH STAGING SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION.
5. DRUMS OR TYPE II BARRICADES SHALL BE PLACED AT 50' INTERVALS ALONG THE PROPOSED CONSTRUCTION WORK ZONE, AT 20' INTERVALS IN TAPER SECTIONS, AND AT 10' INTERVALS WITHIN RADII AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
6. ALL TRAFFIC CONTROL DEVICES AND SIGNING UTILIZED DURING CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS (MUTCD), ILLINOIS SUPPLEMENT TO THE MUTCD, IDOT SPECIAL PROVISIONS, IDOT HIGHWAY STANDARDS, IDOT STANDARD SPECIFICATIONS, CONTRACT SPECIFICATIONS, OR AS DIRECTED BY THE ENGINEER. ALL CONFLICTING TRAFFIC SIGNS SHALL BE COVERED AS DIRECTED BY THE ENGINEER. THIS WORK SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (SPECIAL).
7. THE CONTRACTOR SHALL ENSURE THAT ANY EXISTING UTILITIES ARE NOT ENDANGERED OR DISTURBED DURING CONSTRUCTION AND THAT ACTIVE UTILITIES ARE PROPERLY MAINTAINED WITHIN THE CONSTRUCTION LIMITS.
8. THE CONTRACTOR SHALL INSTALL ADVANCE CONSTRUCTION SIGNING ONE WEEK PRIOR TO THE START OF CONSTRUCTION AND SHALL BE REMOVED OR COVERED WHEN NOT REQUIRED.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING POSITIVE DRAINAGE FOR THE DURATION OF CONSTRUCTION.
10. THE CONTRACTOR SHALL RESTORE ALL PERMANENT PAVEMENT MARKINGS, SIGNS, AND TRAFFIC CONTROL DEVICES THAT WERE AFFECTED BY CONSTRUCTION.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING MAIL DELIVERY ACCESSIBILITY DURING CONSTRUCTION.
12. THE CONTRACTOR SHALL ENSURE THAT THE EXISTING ROADWAY FLOOD GATES ON RAND ROAD EAST OF BALLARD ROAD ARE ABLE TO BE CLOSED AT ALL TIMES DURING CONSTRUCTION. THE CONTRACTOR SHALL NOT AT ANY TIME OBSTRUCT THE CLOSING PATH OF THE GATES.
13. ALL PROPERTY ACCESS SHALL BE STAGE CONSTRUCTED TO MAINTAIN ACCESS AT ALL TIMES.
14. THE CONTRACTOR SHALL MAINTAIN SIDEWALK ACCESS ON AT LEAST ONE SIDE OF RAND ROAD AT ALL TIMES.
15. CHANGEABLE MESSAGE SIGNS SHALL BE INSTALLED TWO WEEKS PRIOR TO ALL TRAFFIC STAGE CHANGES ON EACH APPROACH OF THE AFFECTED ROADWAY TO WARN MOTORISTS OF THE UPCOMING EVENT. THE SIGN MESSAGE SHALL BE REVISED TWO WEEKS THEREAFTER WITH MESSAGES WARNING TRAFFIC OF POTENTIAL DELAYS, QUEUING, AND/OR WITH MESSAGES NOTIFYING TRAFFIC TO USE ALTERNATIVE ROUTES. THE SIGN LOCATIONS AND MESSAGES SHALL BE DETERMINED BY THE ENGINEER.
16. DROP-OFFS ADJACENT TO THE TRAVEL LANE THAT ARE NOT PROTECTED WITH A TEMPORARY CONCRETE BARRIER SHALL BE KEPT TO A MINIMUM. PROTECTION OF THE DROP-OFF SHALL BE ACCORDING TO THE BUREAU OF SAFETY PROGRAMS AND ENGINEERING AND SAFETY ENGINEERING POLICY MEMORANDUM 4-21. DROP-OFFS GREATER THAN OR EQUAL TO 24" WILL NOT BE ALLOWED AT LOCATIONS WHERE THE DROP-OFF IS LOCATED WITHIN 8 FEET OF THE EDGE OF THE TRAVEL LANE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT THE DROP-OFF AREAS MEET THE OFFSET, HEIGHT, AND DURATION REQUIREMENT TO USE BARRICADES AT THE END OF EACH WORKDAY. THIS MAY REQUIRE THE CONTRACTOR TO REPLACE OR PLACE SUFFICIENT MATERIAL IN THE EXCAVATION TO REDUCE THE DROP-OFF TO BE COMPLIANT WITH THE REQUIREMENTS FOR USE OF BARRICADES. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED TO COMPLY WITH THIS REQUIREMENT.

**SEQUENCE OF CONSTRUCTION**

PRE-STAGE CONSTRUCTION

1. CONSTRUCT TEMPORARY SIDEWALK 3" ON THE NORTH SIDE OF RAND ROAD BETWEEN ELK BOULEVARD AND HAWTHORNE LANE. LOCATION OF SIDEWALK IS SHOWN IN STAGE 1A STAGING PLANS.
2. TEMPORARY SIGNALS AT INTERSECTIONS SHALL BE INSTALLED DURING THIS PRE-STAGE.

STAGE 1 CONSTRUCTION

1. CONSTRUCT PROPOSED WATER MAIN WITH TEMPORARY WATER MAIN CONNECTION ATTACHED TO THE SOUTH SIDE OF THE BRIDGE PRIOR TO DEMOLISHING THE NORTH SIDE OF THE BRIDGE.
2. CONSTRUCT NORTH HALF OF THE STORM SYSTEM.
3. CONSTRUCT THE WESTBOUND RAND ROAD PAVEMENT, BRIDGE, SIDEWALKS, RETAINING WALLS, AND COMPENSATORY STORAGE AREA TO THE LIMITS SHOWN ON THE PLANS.
4. CONSTRUCT TEMPORARY PAVEMENT AND TEMPORARY SIDEWALK 3" (TO BE REMOVED IN PHASE 3) IN LIEU OF PERMANENT CURB AND GUTTER AND SIDEWALK BETWEEN PROPOSED RETAINING WALL AND PROPOSED PAVEMENT CONSTRUCTED IN THIS PHASE. ENSURE PERMANENT DRAINAGE STRUCTURES AND PIPES ARE COMPLETED, EXCLUDING THE DRAINAGE TOPS, SPECIFICALLY WITHIN THE LIMITS OF THE TEMPORARY PAVEMENT. COVER INLETS WITH STEEL PLATES AND OVERLAY WITH TEMPORARY PAVEMENT AS NECESSARY.
5. CONSTRUCT A TEMPORARY SOIL RETENTION SYSTEM NEAR RAND ROAD CENTERLINE IN ORDER TO BUILD WESTBOUND PAVEMENT TO PROPOSED PROFILE GRADE.
6. PARTIALLY CONSTRUCT CONNECTION TO HAWTHORNE LANE.
7. CONSTRUCT THE SOUTHBOUND PORTION OF BALLARD ROAD TO THE LIMITS SHOWN ON THE PLANS.

STAGE 1 TRAFFIC

1. SHIFT WESTBOUND TRAFFIC TO SOUTH SIDE OF RAND ROAD WITH ONE 11' LANE IN EACH DIRECTION. SEPARATE TRAFFIC FROM WORK ZONE WITH DRUMS AND TEMPORARY CONCRETE BARRIER AS SHOWN ON THE PLANS.
2. MAINTAIN TRAFFIC ACCESS TO ALL RAND ROAD DRIVEWAYS.
3. SHIFT TRAFFIC TO HAWTHORNE LANE, PROVIDING ONE 10' LANE IN EACH DIRECTION EXCEPT DURING SHORT-TERM SINGLE LANE CLOSURES.
4. SHIFT TRAFFIC TO EAST SIDE OF BALLARD ROAD, PROVIDING ONE 10' LANE IN EACH DIRECTION.

STAGE 1B CONSTRUCTION

1. CONTINUE WORK ON WESTBOUND RAND ROAD.
2. CONSTRUCT REMAINING PORTION OF HAWTHORNE LANE.
3. CONSTRUCT THE NORTHBOUND PORTION OF BALLARD ROAD TO THE LIMITS SHOWN ON THE PLANS.

STAGE 1B TRAFFIC

1. RAND ROAD TRAFFIC REMAINS IN STAGE 1A CONFIGURATION.
2. MAINTAIN TRAFFIC ACCESS TO ALL RAND ROAD DRIVEWAYS.
3. SHIFT TRAFFIC TO WEST SIDE OF HAWTHORNE LANE, PROVIDING ONE 10' LANE IN EACH DIRECTION EXCEPT DURING SHORT-TERM SINGLE LANE CLOSURES.
4. SHIFT TRAFFIC TO WEST SIDE OF BALLARD ROAD, PROVIDING ONE 10' LANE IN EACH DIRECTION.

STAGE 2 CONSTRUCTION

1. CONSTRUCT THE EASTBOUND RAND ROAD PAVEMENT, SIDEWALKS, RETAINING WALLS, AND COMPENSATORY STORAGE AREA TO THE LIMITS SHOWN ON THE PLANS.
2. CONSTRUCT PROPOSED CBH DRIVEWAY (WILSON LANE).
3. CONSTRUCT PROPOSED MULTI-USE PATH BETWEEN ELK BLVD AND SCHOOL ENTRANCE WHILE EXISTING SIDEWALK IS OPERATIONAL TO PROVIDE PEDESTRIAN ACCESS FOR SCHOOL AND CBH.
4. CONSTRUCT SOUTH HALF OF THE STORM SYSTEM.

**SEQUENCE OF CONSTRUCTION (CONTINUED)**

STAGE 2 TRAFFIC

1. SHIFT TRAFFIC TO NORTH SIDE OF RAND ROAD WITH ONE 11' LANE IN EACH DIRECTION. SEPARATE TRAFFIC FROM WORK ZONE WITH DRUMS AND TEMPORARY CONCRETE BARRIER AS SHOWN ON THE PLANS.
2. MAINTAIN TRAFFIC ACCESS TO ALL RAND ROAD DRIVEWAYS.
3. HAWTHORNE LANE IN PROPOSED CONFIGURATION.
4. CONSTRUCT TEMPORARY CBH WEST DRIVEWAY WIDENING AND CONNECTION TO PROPOSED RAND ROAD PAVEMENT.
5. EXISTING WILSON LANE DRIVEWAY IS CLOSED TO TRAFFIC.
6. MAINTAIN DES PLAINES RIVER TRAIL NORTH-SOUTH CONNECTION AT BALLARD ROAD.
7. THE EXISTING SIDEWALK SOUTH OF RAND ROAD AND WEST OF THE SCHOOL ENTRANCE REMAINS OPEN TO PROVIDE PEDESTRIAN ACCESS FOR SCHOOL AND CBH.
8. SHIFT PEDESTRIAN TRAFFIC TO NORTH SIDEWALK.

STAGE 2B CONSTRUCTION

1. CONSTRUCT PART OF THE SCHOOL ENTRANCE PAVEMENT.

STAGE 2B TRAFFIC

1. MOVE CBH ENTRANCE TRAFFIC TO PROPOSED DRIVEWAY.

STAGE 2C CONSTRUCTION

1. CONSTRUCT REMAINING EB PAVEMENT AND MULTI-USE PATH.

STAGE 2C TRAFFIC

1. MOVE SCHOOL ENTRANCE TRAFFIC TO THE WEST, PROVIDING TWO 10' LANES.

STAGE 3 CONSTRUCTION (NOT SHOWN)

1. REMOVE TEMPORARY PAVEMENT AND STEEL PLATES OVER PERMANENT DRAINAGE FEATURES CONSTRUCTED IN STAGE 1.
2. CONSTRUCT REMAINING PROPOSED SIDEWALK, CURB AND GUTTER, AND DRAINAGE INLET TOPS TO COMPLETE RAODSIDE FEATURES.
3. INSTALL FINAL PAVEMENT MARKINGS AND COMPLETE ANY REMAINING TRAFFIC SIGNAL WORK OR PUNCH LIST ITEMS.

STAGE 3 TRAFFIC (NOT SHOWN)

1. ALL TRAFFIC IN PROPOSED CONFIGURATION.

1

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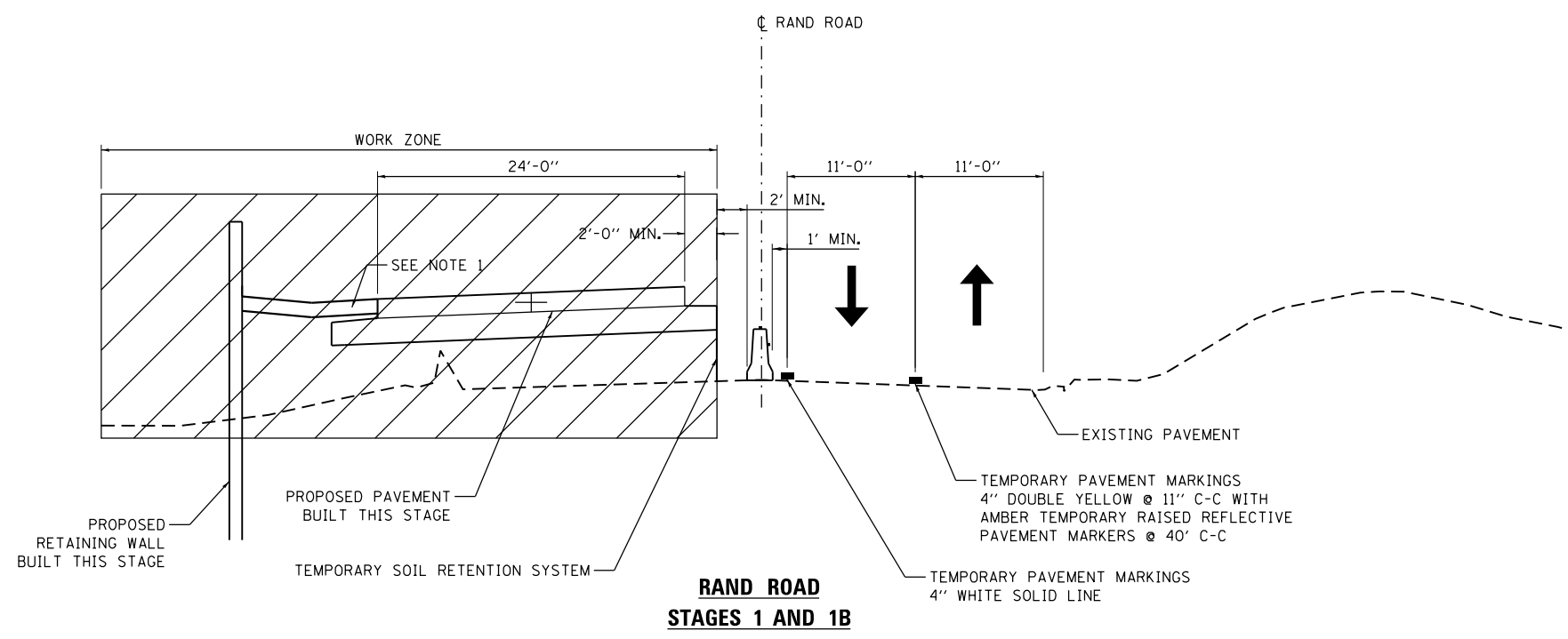
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

STAGES OF CONSTRUCTION & TRAFFIC CONTROL  
NOTES & SEQUENCE OF CONSTRUCTION




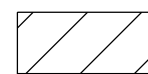
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1 REVISED ENTIRE SHEET 5/28/2024

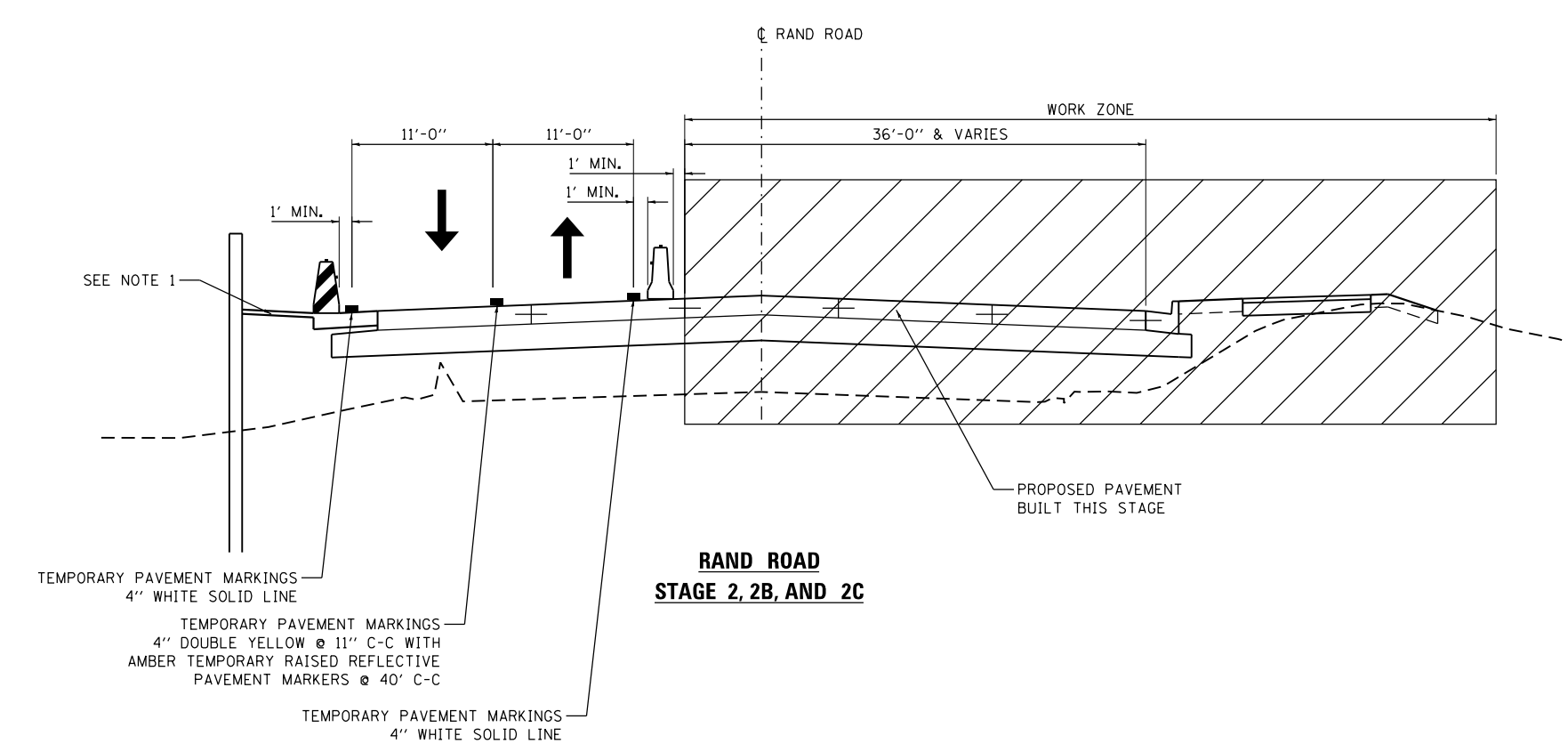
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3523	120-Y-B	COOK	267	33
CONTRACT NO. 60J10				
ILLINOIS FED. AID PROJECT				



**LEGEND**

-  DIRECTION OF TRAFFIC
-  TEMPORARY CONCRETE BARRIER WITH DOUBLE SIDED CRYSTAL TYPE C REFLECTORS (STANDARD 704001) (RESTRAINED ON BRIDGE PER DETAIL R-27)
-  TEMPORARY WATER FILLED BARRIER WITH DOUBLE SIDED CRYSTAL TYPE C REFLECTORS
-  WORK ZONE

**RAND ROAD STAGES 1 AND 1B**



- NOTES**
- CONSTRUCT TEMPORARY PAVEMENT AND TEMPORARY SIDEWALK TO ACCOMMODATE PEDESTRIAN TRAFFIC AND PART OF THE OUTSIDE LANE. PLACE TEMPORARY WATER FILLED BARRIER WITH TEMPORARY TEST LEVEL 2 IMPACT ATTENUATOR DURING STAGE 2 WHEN ADJACENT TO OPEN TRAFFIC. PERMANENT SIDEWALK AND CURB AND GUTTER CONSTRUCTED IN STAGE 3 (NOT SHOWN IN STAGING PLANS).

**RAND ROAD STAGE 2, 2B, AND 2C**

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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

STAGES OF CONSTRUCTION & TRAFFIC CONTROL			
TYPICAL SECTIONS			
SCALE: NA	SHEET 1 OF 1 SHEETS	STA.	TO STA.

REVISD ENTIRE SHEET 5/28/2024				
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3523	120-Y-B	COOK	267	34
CONTRACT NO. 60J10				
ILLINOIS FED. AID PROJECT				



\* MUST BE REMOVED OR COVERED WHEN FLAGGER OR WORKERS ARE NOT PRESENT FOR MORE THAN ONE HOUR

5' TEMPORARY SIDEWALK

DETECTABLE PEDESTRIAN CHANNELIZING BARRICADE

SIDEWALK CLOSED  
R11-1101-2418

W20-1103(O)-36



M6-4(O)-2115



W20-1a(O)-48  
STA 224+70 RT

Sta 237+59.05 (RAND ROAD)  
Sta 10+00.00 (HAWTHORNE LN.)

BEGIN TEMPORARY CONCRETE BARRIER  
STA. 240+50.00  
3.50' LT

IMPACT ATTENUATORS,  
TEMPORARY  
(NON- REDIRECTIVE,  
NARROW), TEST LEVEL 2

MAINTAIN TRAFFIC  
ACCESS TO DRIVEWAYS  
(TYP.)

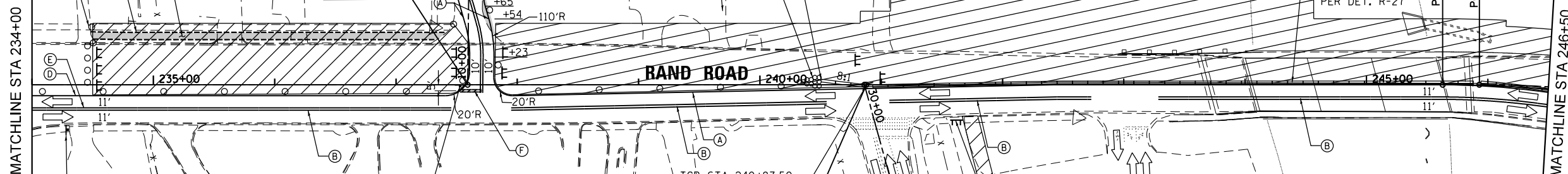
TCB RESTRAINED  
TO EXISTING  
BRIDGE DECK  
PER DET. R-27

PC Sta 245+62.85

PC Sta 245+93.06

MATCHLINE STA 234+00

MATCHLINE STA 246+50



R1-1-30

TCB STA 240+87.50,  
1.00' RT  
Sta 240+86.19 (RAND ROAD)  
Sta 30+00.00 (PROP. SCHOOL ENTR. N-S)



R2-11-4830

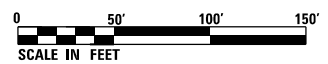
- WORK ZONE W21-1115(O)-3618
  - SPEED LIMIT 35 R2-1-3648
  - PHOTO ENFORCED R10-1108P-3618
  - \$250 FINE MINIMUM R2-1106P-3618
- STA 234+30 RT

**LEGEND**

- DIRECTION OF TRAFFIC
- ▨ WORK ZONE
- DRUM OR TYPE II BARRICADE
- ⌄ TYPE III BARRICADE WITH FLASHING LIGHTS
- ▭ TEMPORARY PAVEMENT/SIDEWALK
- ↑ WORK ZONE SIGN
- ↑ ARROW BOARD
- ⌄ DIRECTIONAL INDICATOR BARRICADE AT 20' C-C WITH STEADY BURN MONO-DIRECTIONAL LIGHTS
- Ⓐ 4" MODIFIED URETHANE, SOLID WHITE
- Ⓑ 4" MODIFIED URETHANE, DOUBLE YELLOW CENTERLINE @ 11" C-C WITH TEMPORARY REFLECTIVE PAVEMENT MARKERS
- Ⓒ 24" MODIFIED URETHANE, SOLID WHITE
- Ⓓ 4" TAPE, SOLID WHITE
- Ⓔ 4" TAPE, DOUBLE YELLOW CENTERLINE @ 11" C-C WITH AMBER TEMPORARY RAISED REFLECTIVE PAVEMENT MARKERS @ 40' C-C
- Ⓕ 24" TAPE, SOLID WHITE
- Ⓖ 4" TAPE, SOLID YELLOW

**NOTES:**

1. ALL DRUMS LOCATED AND PLACED ALONG TRAFFIC TAPERS ARE PLACED AT 20' SPACING. DRUMS LOCATED ALONG TANGENT SECTIONS ARE PLACED AT 50' SPACING.



REVISED ENTIRE SHEET 5/28/2024

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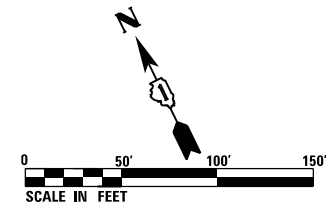
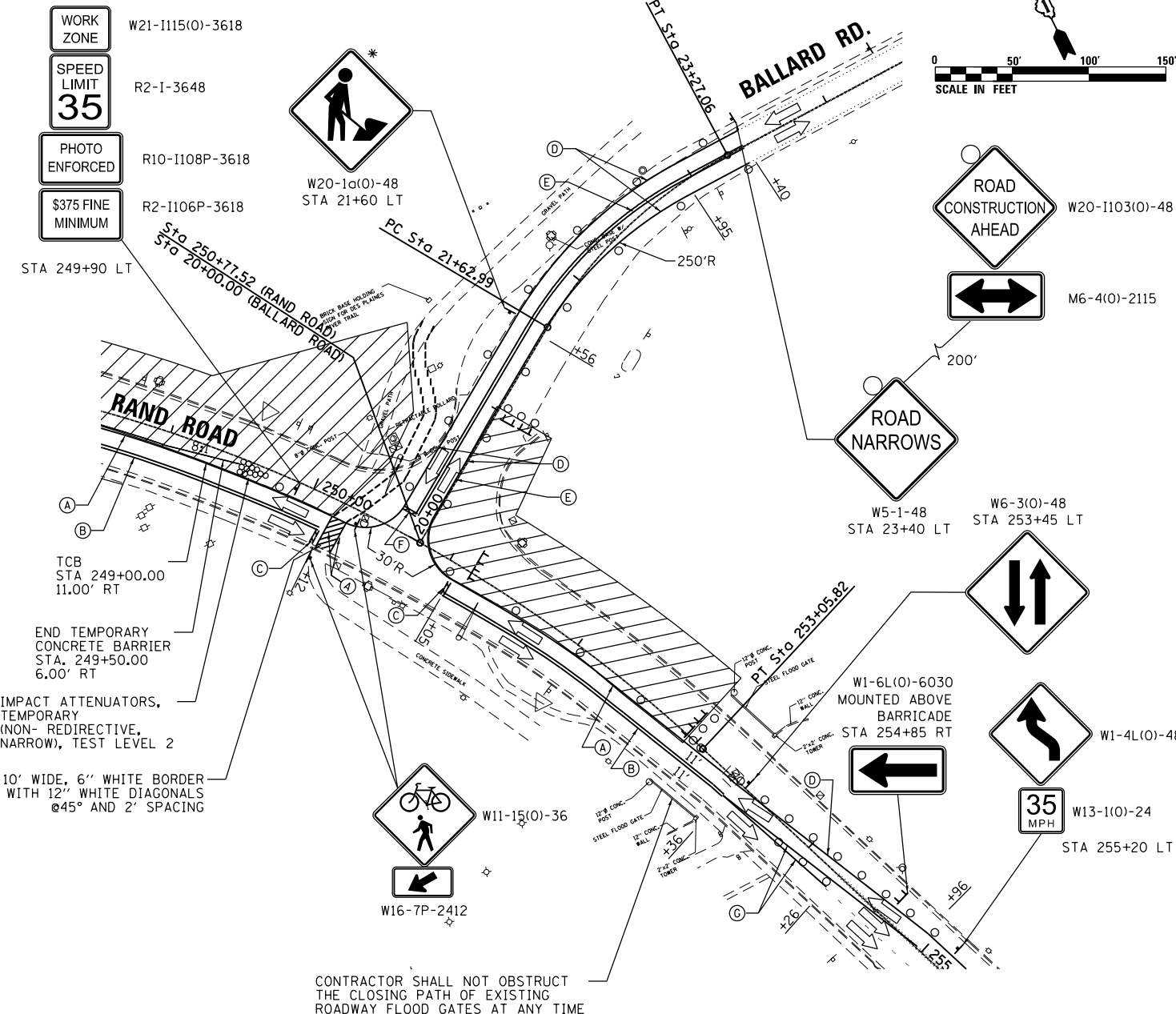
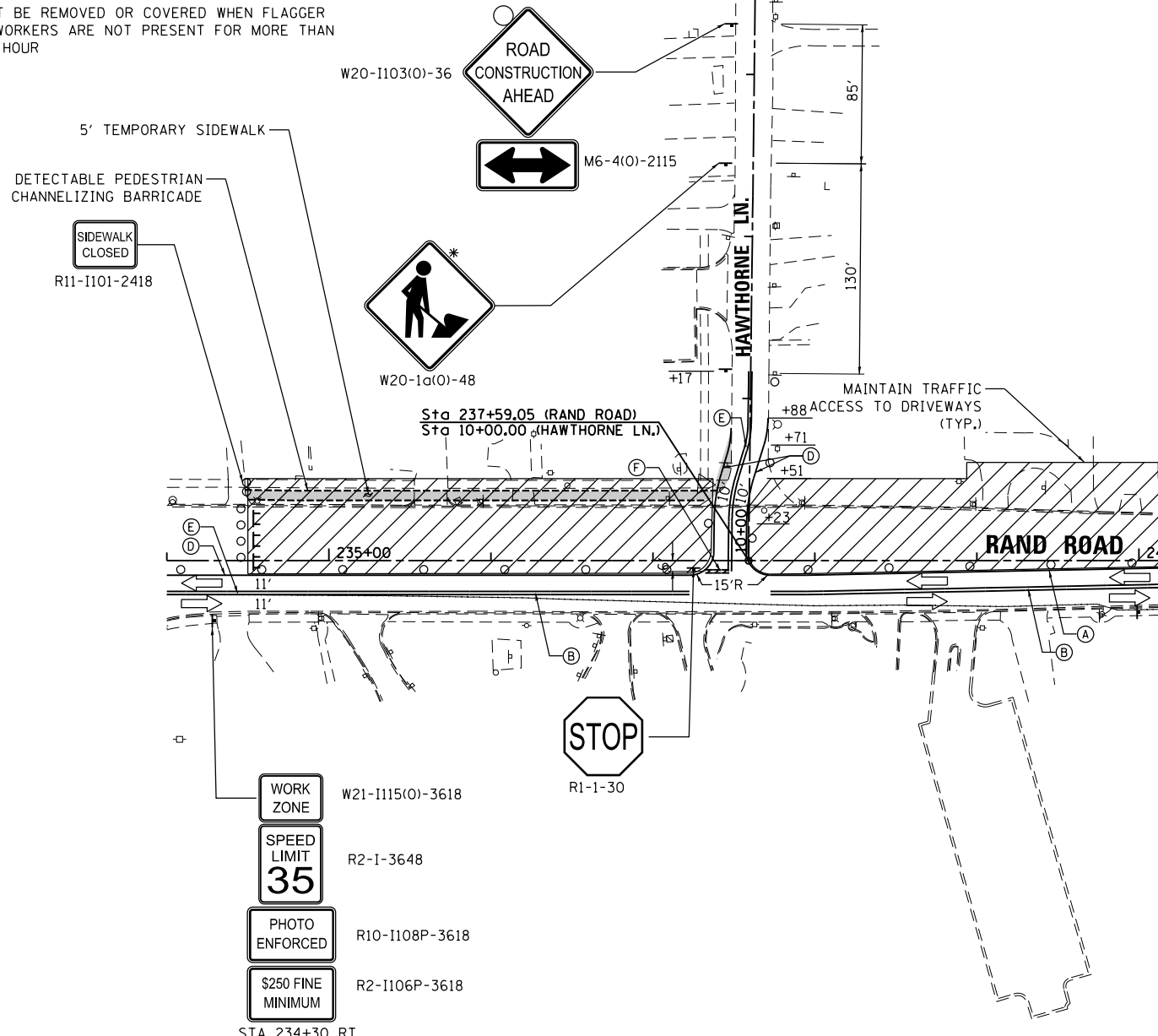
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

STAGES OF CONSTRUCTION & TRAFFIC CONTROL  
STAGE 1

SCALE: 1" = 50' SHEET 2 OF 4 SHEETS STA. 234+00.00 TO STA. 246+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3523	120-Y-B	COOK	267	36
CONTRACT NO. 60J10				
ILLINOIS FED. AID PROJECT				

\* MUST BE REMOVED OR COVERED WHEN FLAGGER OR WORKERS ARE NOT PRESENT FOR MORE THAN ONE HOUR



**LEGEND**

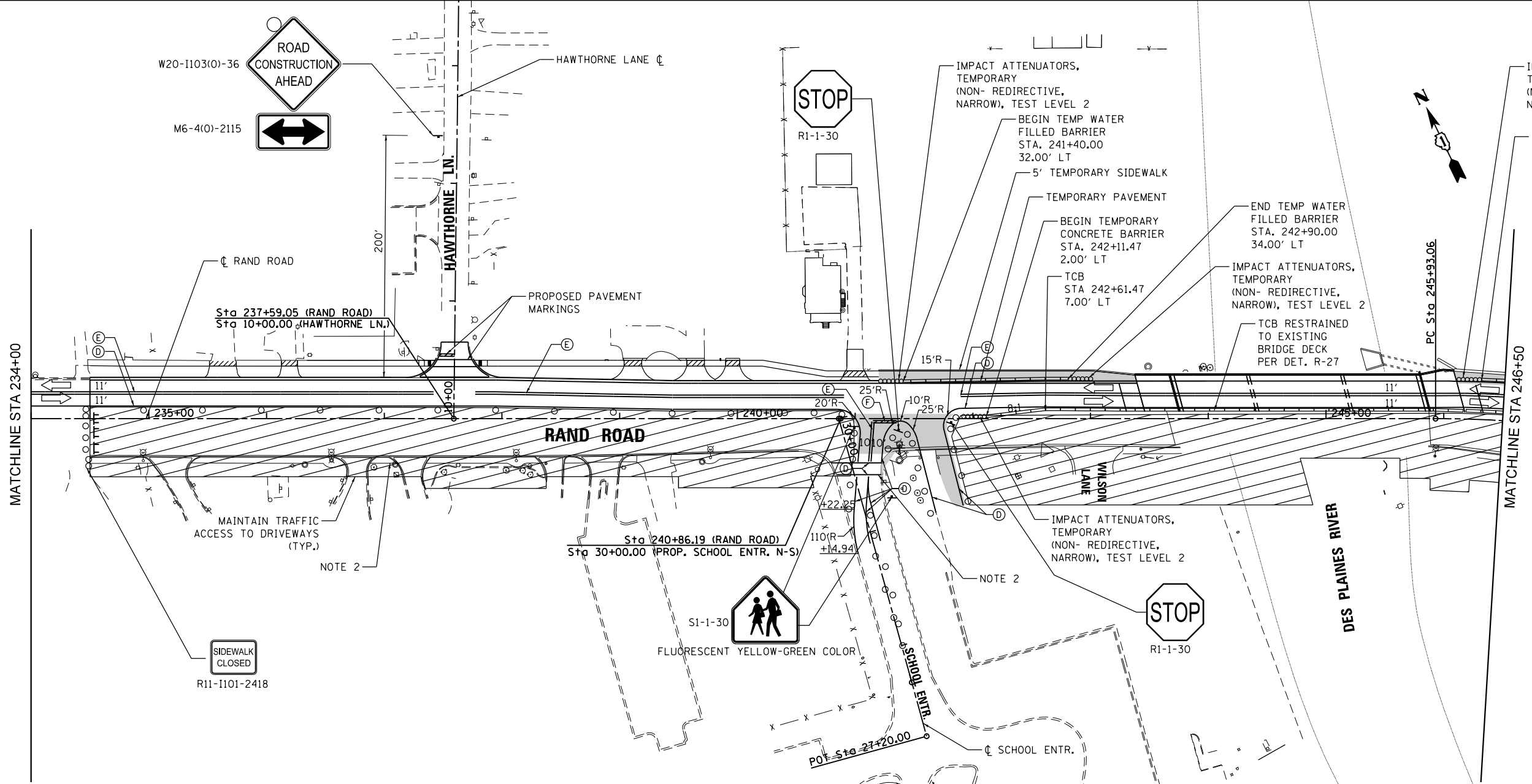
- ➔ DIRECTION OF TRAFFIC
- ▨ WORK ZONE
- DRUM OR TYPE II BARRICADE
- ⌚ TYPE III BARRICADE WITH FLASHING LIGHTS
- ▭ TEMPORARY PAVEMENT/SIDEWALK
- ⌚ WORK ZONE SIGN
- ↑ ARROW BOARD
- ⌚ DIRECTIONAL INDICATOR BARRICADE AT 20' C-C WITH STEADY BURN MONO-DIRECTIONAL LIGHTS

- (A) 4" MODIFIED URETHANE, SOLID WHITE
- (B) 4" MODIFIED URETHANE, DOUBLE YELLOW CENTERLINE WITH TEMPORARY REFLECTIVE PAVEMENT MARKERS
- (C) 24" MODIFIED URETHANE, SOLID WHITE
- (D) 4" TAPE, SOLID WHITE
- (E) 4" TAPE, DOUBLE YELLOW CENTERLINE @ 11" C-C WITH AMBER TEMPORARY RAISED REFLECTIVE PAVEMENT MARKERS @ 40' C-C
- (F) 24" TAPE, SOLID WHITE
- (G) 4" TAPE, SOLID YELLOW

NOTES:  
1. ALL DRUMS LOCATED AND PLACED ALONG TRAFFIC TAPERS ARE PLACED AT 20' SPACING. DRUMS LOCATED ALONG TANGENT SECTIONS ARE PLACED AT 50' SPACING.

⚠️ REVISED ENTIRE SHEET 5/28/2024

	USER NAME = F100101M	DESIGNED - MCK	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>STAGES OF CONSTRUCTION &amp; TRAFFIC CONTROL STAGE 1B</b>			F.A.U. RTE. 3523	SECTION 120-Y-B	COUNTY COOK	TOTAL SHEETS 267	SHEET NO. 39	
	PLOT SCALE = 100.0000' / 1"	CHECKED - MXF	REVISED -		SCALE: 1" = 50'	SHEET 1 OF 1 SHEETS	STA. TO STA.	CONTRACT NO. 60J10					
	PLOT DATE = 4/22/2024	DATE - 01/10/2024	REVISED -		ILLINOIS FED. AID PROJECT								



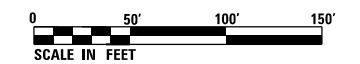
**LEGEND**

- ➔ DIRECTION OF TRAFFIC
- ▨ WORK ZONE
- DRUM OR TYPE II BARRICADE
- ⊥ TYPE III BARRICADE WITH FLASHING LIGHTS
- ▭ TEMPORARY PAVEMENT/SIDEWALK
- ⊥ WORK ZONE SIGN
- ↑ ARROW BOARD
- ⊥ DIRECTIONAL INDICATOR BARRICADE AT 20' C-C WITH STEADY BURN MONO-DIRECTIONAL LIGHTS

- Ⓐ 4" MODIFIED URETHANE, SOLID WHITE
- Ⓑ 4" MODIFIED URETHANE, DOUBLE YELLOW CENTERLINE @ 11" C-C WITH TEMPORARY REFLECTIVE PAVEMENT MARKERS
- Ⓒ 24" MODIFIED URETHANE, SOLID WHITE
- Ⓓ 4" TAPE, SOLID WHITE
- Ⓔ 4" TAPE, DOUBLE YELLOW CENTERLINE @ 11" C-C WITH AMBER TEMPORARY RAISED REFLECTIVE PAVEMENT MARKERS @ 40' C-C
- Ⓕ 24" TAPE, SOLID WHITE
- Ⓖ 4" TAPE, SOLID YELLOW

**NOTES:**

1. ALL DRUMS LOCATED AND PLACED ALONG TRAFFIC TAPERS ARE PLACED AT 20' SPACING. DRUMS LOCATED ALONG TANGENT SECTIONS ARE PLACED AT 50' SPACING.
2. PROPOSED MULTI-USE PATH BETWEEN ELK BOULEVARD AND WILSON LANE MUST BE OPEN TO PEDESTRIAN TRAFFIC BEFORE THE START OF THE SCHOOL YEAR.



1 REVISED ENTIRE SHEET 5/28/2024

FILE NAME = D:\60J10-rtt-240624.dgn



USER NAME = F10w10M	DESIGNED - MCK	REVISED -
	DRAWN - MCK	REVISED -
PLOT SCALE = 100.0000' / 1"	CHECKED - MXF	REVISED -
PLOT DATE = 4/29/2024	DATE - 01/10/2024	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

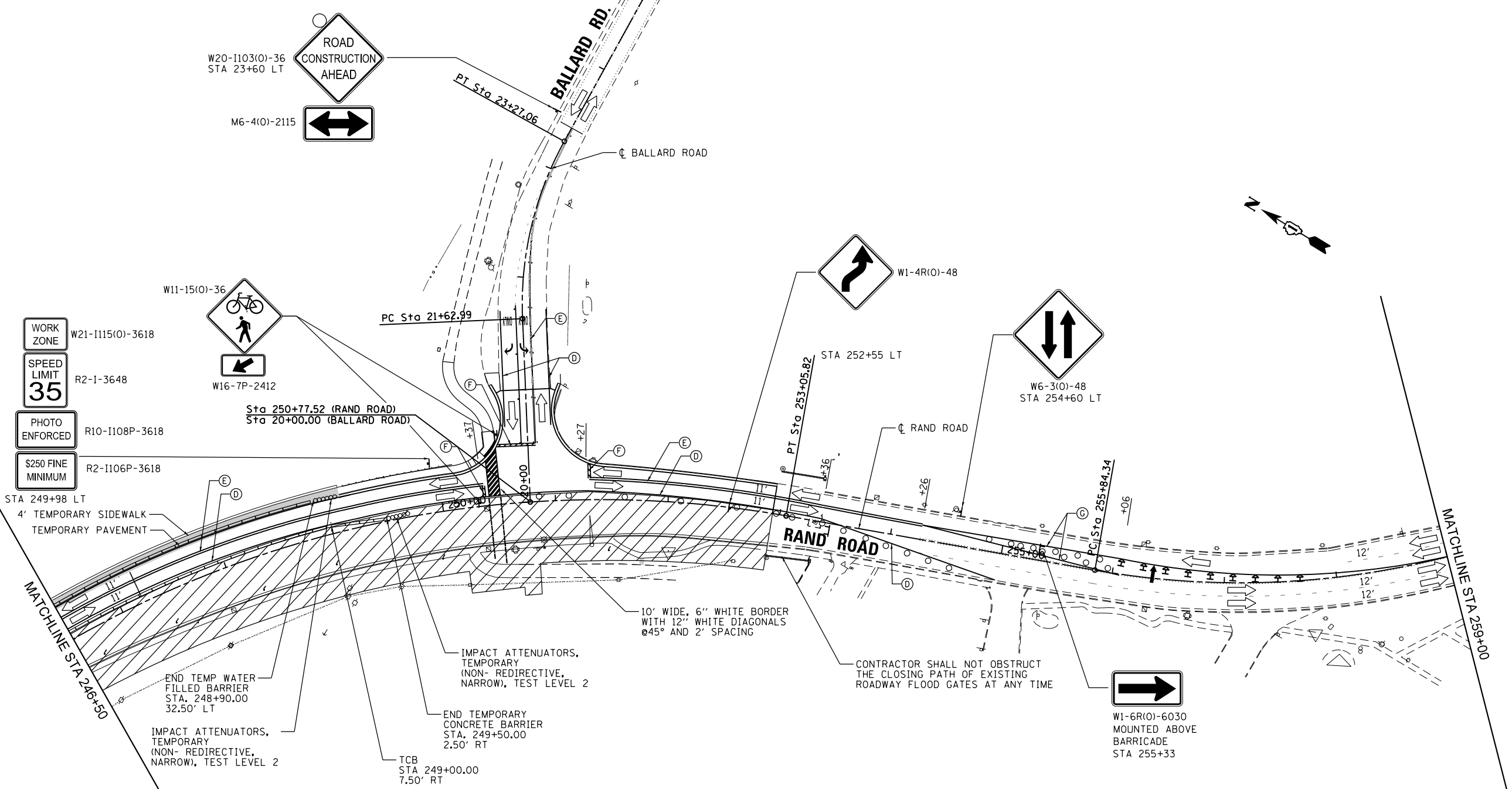
**STAGES OF CONSTRUCTION & TRAFFIC CONTROL  
STAGE 2**

SCALE: 1" = 50' SHEET 2 OF 4 SHEETS STA. 234+00.00 TO STA. 246+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3523	120-Y-B	COOK	267	41
CONTRACT NO. 60J10				
ILLINOIS FED. AID PROJECT				



1



**LEGEND**

- DIRECTION OF TRAFFIC
- WORK ZONE
- DRUM OR TYPE II BARRICADE
- TYPE III BARRICADE WITH FLASHING LIGHTS
- TEMPORARY PAVEMENT/SIDEWALK
- WORK ZONE SIGN
- ARROW BOARD
- DIRECTIONAL INDICATOR BARRICADE AT 20' C-C WITH STEADY BURN MONO-DIRECTIONAL LIGHTS
- 4" MODIFIED URETHANE, SOLID WHITE
- 4" MODIFIED URETHANE, DOUBLE YELLOW CENTERLINE @ 11" C-C WITH TEMPORARY REFLECTIVE PAVEMENT MARKERS
- 24" MODIFIED URETHANE, SOLID WHITE
- 4" TAPE, SOLID WHITE
- 4" TAPE, DOUBLE YELLOW CENTERLINE @ 11" C-C WITH AMBER TEMPORARY RAISED REFLECTIVE PAVEMENT MARKERS @ 40' C-C
- 24" TAPE, SOLID WHITE
- 4" TAPE, SOLID YELLOW

**NOTES:**

1. ALL DRUMS LOCATED AND PLACED ALONG TRAFFIC TAPERS ARE PLACED AT 20' SPACING. DRUMS LOCATED ALONG TANGENT SECTIONS ARE PLACED AT 50' SPACING.



REVISED ENTIRE SHEET 5/28/2024

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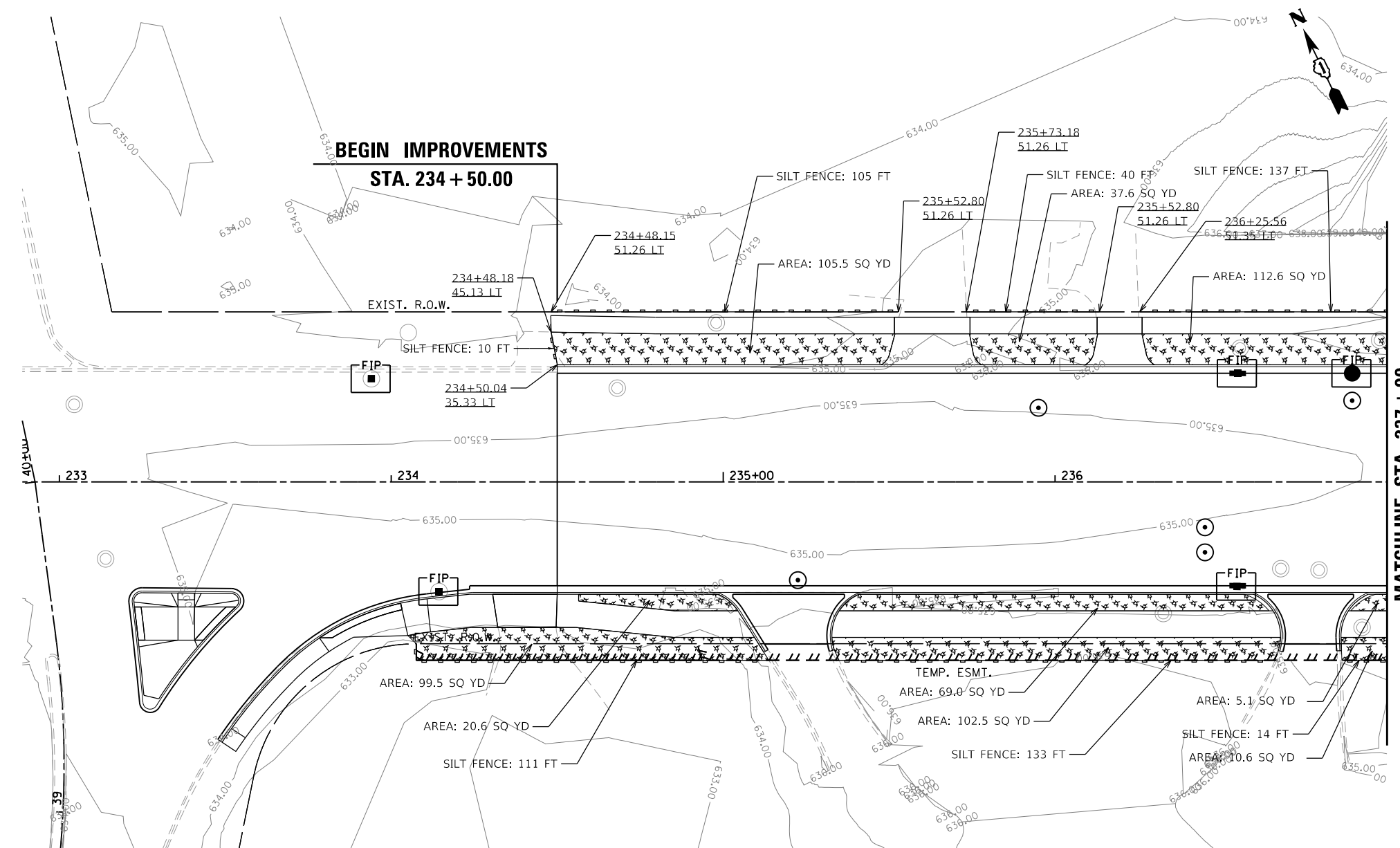
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	DRAWN - MCK	REVISED -
PLOT SCALE = 100.0000' / 1"	CHECKED - MXF	REVISED -
PLOT DATE = 4/22/2024	DATE - 01/10/2024	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**









**STAGES OF CONSTRUCTION & TRAFFIC CONTROL  
STAGE 2**

SCALE: 1" = 50' SHEET 3 OF 4 SHEETS STA. 246+50.00 TO STA. 259+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3523	120-Y-B	COOK	267	42
CONTRACT NO. 60J10				
ILLINOIS FED. AID PROJECT				



**LEGEND**

-  MULCH METHOD 2 (25100115)
-  SEEDING, CLASS 2 (25000200)
-  STONE RIPRAP, CLASS A3 (28100105)
-  PERIMETER EROSION BARRIER (SILT FENCE) (28000400)
-  INLET AND PIPE PROTECTION (28000500)
-  INLET FILTERS (28000510)
-  AGGREGATE DITCH CHECKS (28000315)
-  XXX - TEMPORARY CONSTRUCTION FENCE (Z0055905)



**EROSION AND SEDIMENT CONTROL NOTES**

1. THE CONTRACTOR WILL ASSUME RESPONSIBILITY FOR MAINTENANCE OF ALL SOIL EROSION CONTROL DURING CONSTRUCTION.
2. THE CONTRACTOR SHALL CHECK ALL EROSION AND SEDIMENT CONTROL MEASURES WEEKLY AND AFTER EACH RAINFALL, 0.5 INCHES OR GREATER IN A 24 HOUR PERIOD, OR EQUIVALENT SNOWFALL. ADDITIONALLY, DURING THE WINTER MONTHS, ALL MEASURES SHOULD BE CHECKED BY THE CONTRACTOR AFTER EACH SIGNIFICANT SNOWMELT.
3. ALL ESC MEASURES WILL BE MAINTAINED IN ACCORDANCE WITH THE IDOT EROSION AND SEDIMENT CONTROL FIELD GUIDE FOR CONSTRUCTION INSPECTION FOUND ON THE CONSTRUCTION TAB AT: <http://www.idot.illinois.gov/transportation-system/environment/erosion-and-sediment-control/>.
4. THE CONTRACTOR SHOULD PROVIDE TO THE RESIDENT ENGINEER A PLAN TO ENSURE THAT A STABILIZED FLOW LINE WILL BE PROVIDED DURING STORM SEWER CONSTRUCTION. THIS IS IMPORTANT WHERE NEW STORM SEWER CONNECTS TO EXISTING CULVERTS. THE USE OF A STABILIZED FLOW LINE BETWEEN INSTALLED STORM SEWER AND OPEN DISTURBANCE WILL REDUCE THE POTENTIAL FOR THE OFFSITE DISCHARGE OF SEDIMENT-BEARING WATERS, ESPECIALLY WHEN RAIN IS FORECASTED, SO THAT FLOW WILL NOT ERODE. LACK OF APPROVED PLAN OR FAILURE TO COMPLY WILL RESULT IN AN EROSION AND SEDIMENT CONTROL DEFICIENCY DEDUCTION.
5. ANY LOOSE MATERIAL DEPOSITED IN THE FLOW LINE OF DRAINAGE STRUCTURES, WHICH OBSTRUCTS THE NATURAL FLOW OF WATER, SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. PRIOR TO ACCEPTANCE OF THE IMPROVEMENT, ALL DRAINAGE STRUCTURES SHALL BE FREE OF DIRT AND DEBRIS. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCIDENTAL.
6. TEMPORARY OR PERMANENT STABILIZATION SHALL BE INITIATED IMMEDIATELY, BUT IN NO CASE MORE THAN ONE (1) DAY UPON COMPLETION OF DISTURBANCE, OR IF THE WORK AREA IS TO BE LEFT UNDISTURBED FOR FOURTEEN (14) DAYS OR MORE.
7. EROSION CONTROL ITEMS ARE CONSIDERED TO BE A HIGH PRIORITY ON THIS CONTRACT. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE RESIDENT ENGINEER.
8. EACH TEMPORARY PRACTICE UTILIZED IN THE EROSION AND SEDIMENT CONTROL PLAN SHOULD BE CHECKED ABOVE. ADDITIONALLY, A DESCRIPTION OF HOW THE PRACTICE WILL BE IMPLEMENTED SHOULD ALSO BE INCLUDED.
9. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR PROLONG FINAL GRADING AND SHAPING SO THAT THE ENTIRE PROJECT CAN BE PERMANENTLY SEEDING AT ONE TIME.
10. THIS PROJECT REQUIRES AN U.S. ARMY CORPS OF ENGINEERS (USACE) 404 PERMIT THAT WILL BE SECURED BY THE DEPARTMENT. ALL CONDITIONS OF THE 404 PERMIT, FOUND IN THE SPECIAL PROVISIONS, MUST BE FOLLOWED. AS A CONDITIONS OF THIS PERMIT, THE CONTRACTOR WILL NEED TO SUBMIT AN IN-STREAM WORK PLAN (INCLUDING WORK WITHIN WETLANDS) TO THE DEPARTMENT FOR APPROVAL. GUIDELINES ON ACCEPTABLE IN-STREAM WORK TECHNIQUES (INCLUDING WORK WITHIN WETLANDS) CAN BE FOUND ON THE USACE WEBSITE. THE USACE DEFINES AND DETERMINES IN-STREAM WORK. THE COST OF ALL MATERIALS AND LABOR NECESSARY TO COMPLY WITH THE ABOVE PROVISIONS TO PREPARE AND IMPLEMENT AN IN-STREAM WORK PLAN (INCLUDING WORK WITHIN WETLANDS) WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED WITH THE EXCEPTION OF COFFERDAMS WHICH WILL BE PAID FOR AS COFFERDAM (TYPE 2) WITH A BASIS OF PAYMENT OF EACH.
11. "WETLANDS NO INTRUSION" SIGNAGE SHOULD ALSO BE PROVIDED AT THE BOUNDARY OF ALL UN-IMPACTED WETLANDS AND/OR WOUS. THE CONTRACTOR CAN BORROW THE SIGNS FROM THE BUREAU OF MAINTENANCE. INCLUDE TEMPORARY FENCING AND WETLAND SIGNAGE WITHIN THE EROSION AND SEDIMENT CONTROL STRATEGY. WETLAND SIGNS SHALL BE RETURNED TO THE ROADSIDE DEVELOPMENT UNIT AT THE COMPLETION OF THE CONTRACT

FILE NAME: 0160210-ah-ES-2201.dgn



USER NAME = FinowicM	DESIGNED - PDB	REVISED -
	DRAWN - PDB	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - OIU	REVISED -
PLOT DATE = 5/1/2024	DATE - 5/1/2024	REVISED -


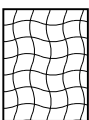

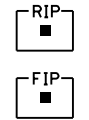
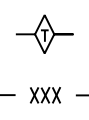





**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

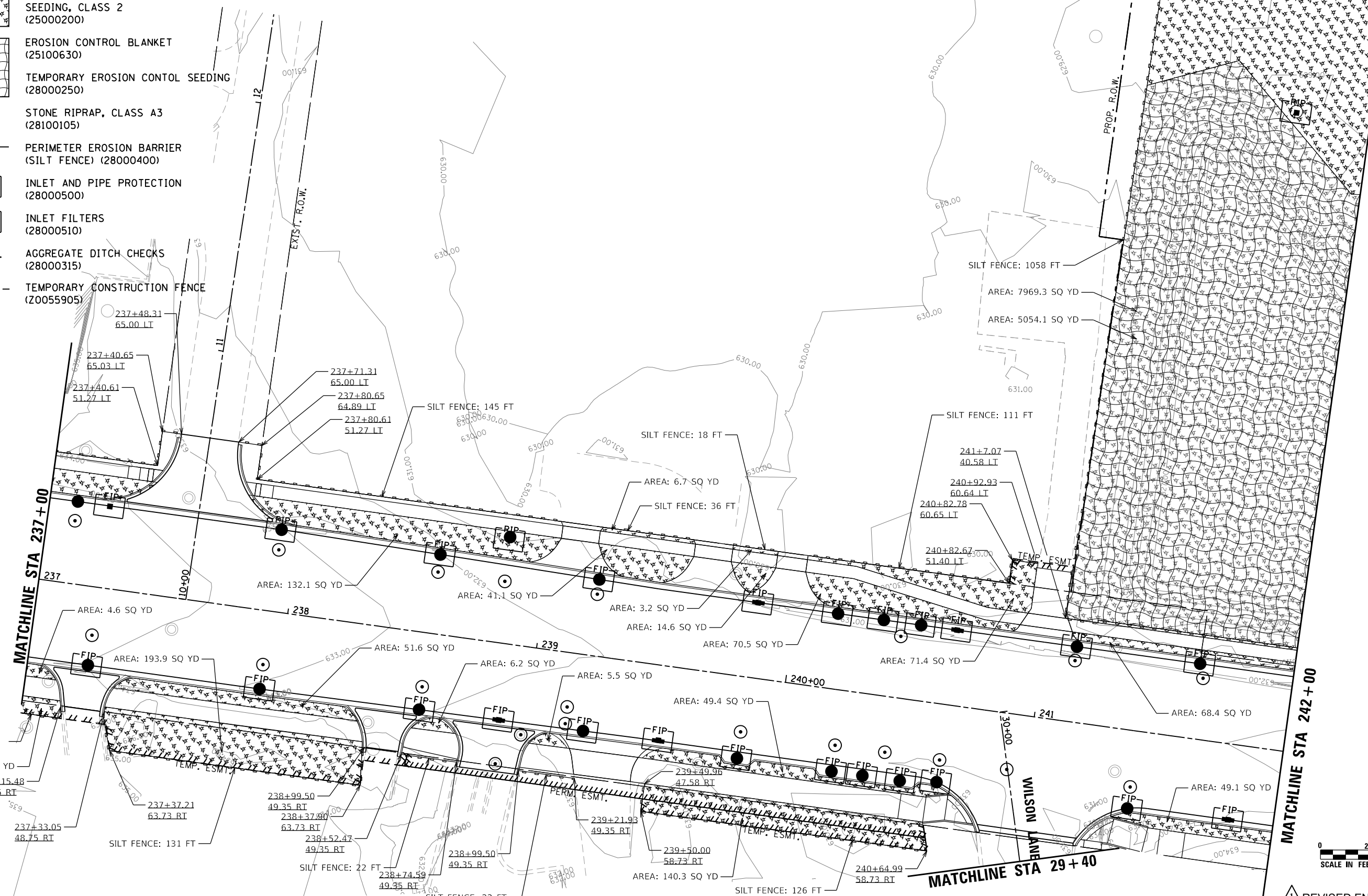
**EROSION AND SEDIMENT CONTROL**

SCALE: 1"=20' SHEET 1 OF 5 SHEETS STA. 234+50 TO STA. 237+00

▲ REVISED ENTIRE SHEET 5/28/2024				
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3523	120-Y-B	COOK	267	46
CONTRACT NO. 60J10				
ILLINOIS FED. AID PROJECT				

**LEGEND**

-  MULCH METHOD 2 (25100115)
-  SEEDING, CLASS 2 (25000200)
-  EROSION CONTROL BLANKET (25100630)
-  TEMPORARY EROSION CONTROL SEEDING (28000250)
-  STONE RIPRAP, CLASS A3 (28100105)
-  PERIMETER EROSION BARRIER (SILT FENCE) (28000400)
-  INLET AND PIPE PROTECTION (28000500)
-  INLET FILTERS (28000510)
-  AGGREGATE DITCH CHECKS (28000315)
-  XXX - TEMPORARY CONSTRUCTION FENCE (20055905)



REVISD ENTIRE SHEET 5/28/2024



USER NAME = F1nawicM	DESIGNED - PDB	REVISED -
PLOT SCALE = 40.0000' / 1" IN.	DRAWN - PDB	REVISED -
PLOT DATE = 5/1/2024	CHECKED - OIU	REVISED -
	DATE - 5/1/2024	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EROSION AND SEDIMENT CONTROL**

SCALE: 1"=20' SHEET 2 OF 5 SHEETS STA. 237+00 TO STA. 242+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3523	120-Y-B	COOK	267	47
CONTRACT NO. 60J10				
ILLINOIS FED. AID PROJECT				

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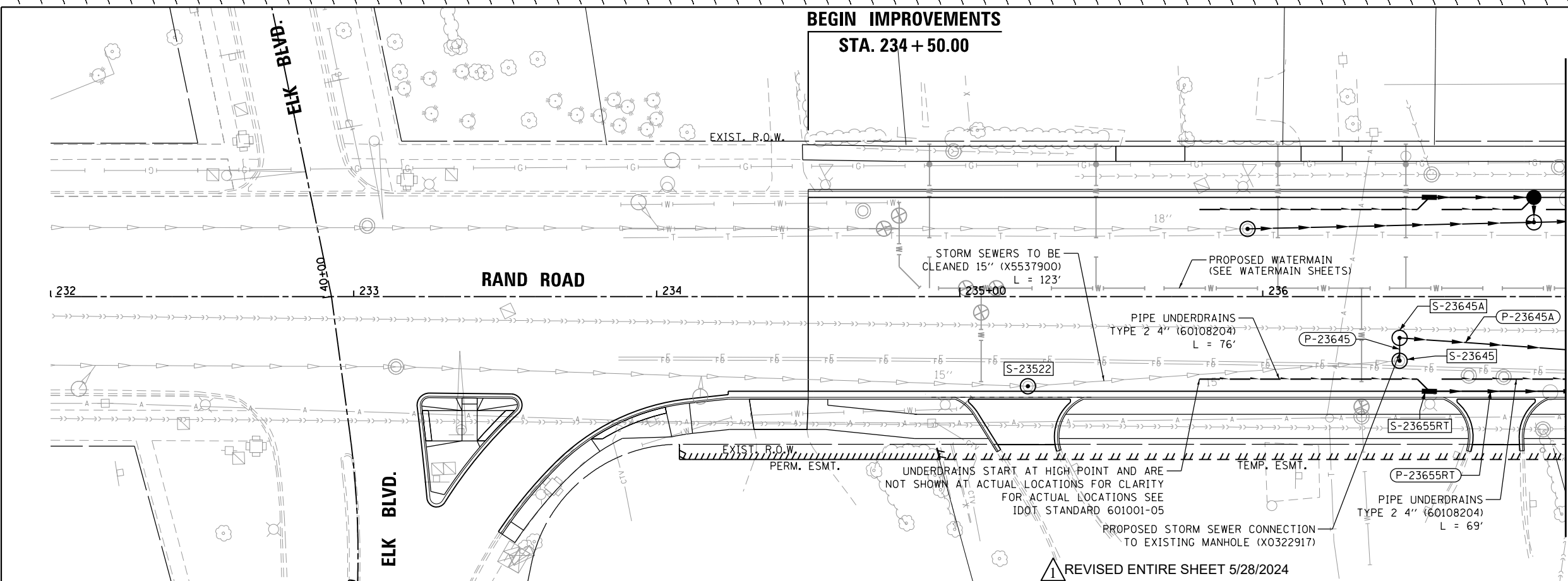




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BY	
PLAN	SURVEYED
NOTE BOOK	PLOTTED
CHECKED	ALIGNED
CAD FILE NAME	NO.

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

FILE NAME = D:\60110-ent-drain201-RightSide.dgn



NOTE:  
 1. SEE DRAINAGE SCHEDULE FOR PIPE/STRUCTURE INFO.  
 2. SEE WATERMAIN SHEETS FOR PROPOSED WATERMAIN CROSSING INFO.

**DRAINAGE LEGEND**

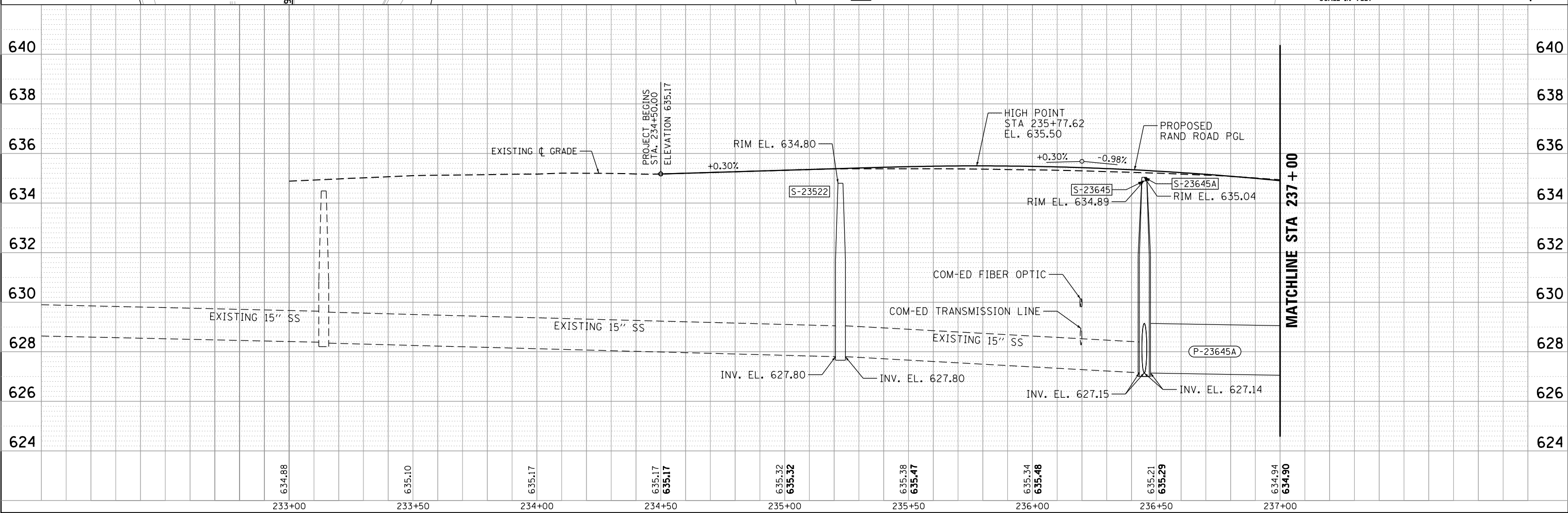
- EXISTING STORM SEWER
- PROPOSED STORM SEWER
- PROPOSED UNDERDRAIN
- S-XXXXX DRAINAGE STRUCTURE NUMBER
- P-XXXXX DRAINAGE PIPE NUMBER
- PROPOSED CATCH BASIN
- PROPOSED MANHOLE
- PROPOSED INLET
- EXISTING CATCH BASIN
- EXISTING MANHOLE

**UTILITY LEGEND**

- GAS
- COMBINED SEWER
- SANITARY SEWER
- WATER
- ELECTRICAL
- AERIAL
- TELEPHONE

0 2' 4' 6'  
 VERTICAL SCALE IN FEET

0 20' 40' 60'  
 SCALE IN FEET



USER NAME = F10w10M	DESIGNED - PDB	REVISED -
	DRAWN - PDB	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - OIU	REVISED -
PLOT DATE = 5/1/2024	DATE - 5/1/2024	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

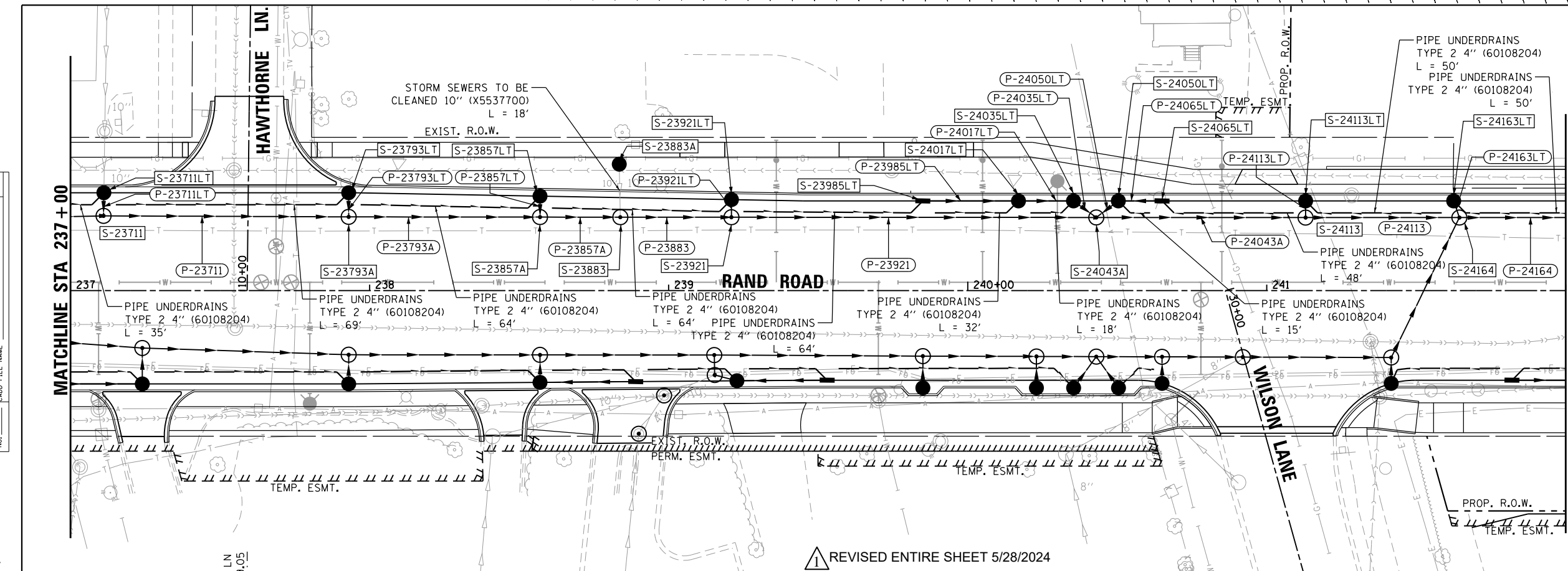
DRAINAGE AND UTILITIES  
 SOUTH SYSTEM

SCALE: 1"=20' SHEET 2 OF 14 SHEETS STA. 234+50 TO STA. 237+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3523	120-Y-B	COOK	267	55
CONTRACT NO. 60J10				
ILLINOIS FED. AID PROJECT				

DATE	
BY	
PLAN	
SURVEYED	
PLOTTED	
CHECKED	
ALIGNED	
CAD FILE NAME	
NO.	

DATE	
BY	
PROFILE	
SURVEYED	
PLOTTED	
CHECKED	
GRADES	
STRUCTURE	
NOTATIONS	
CHVD	
NO.	



NOTE:  
 1. SEE DRAINAGE SCHEDULE FOR PIPE/STRUCTURE INFO.  
 2. SEE WATERMAIN SHEETS FOR PROPOSED WATERMAIN CROSSING INFO.

**DRAINAGE LEGEND**

- EXISTING STORM SEWER
- PROPOSED STORM SEWER
- PROPOSED UNDERDRAIN
- S-XXXXX DRAINAGE STRUCTURE NUMBER
- P-XXXXX DRAINAGE PIPE NUMBER
- PROPOSED CATCH BASIN
- PROPOSED MANHOLE
- PROPOSED INLET
- EXISTING CATCH BASIN
- EXISTING MANHOLE

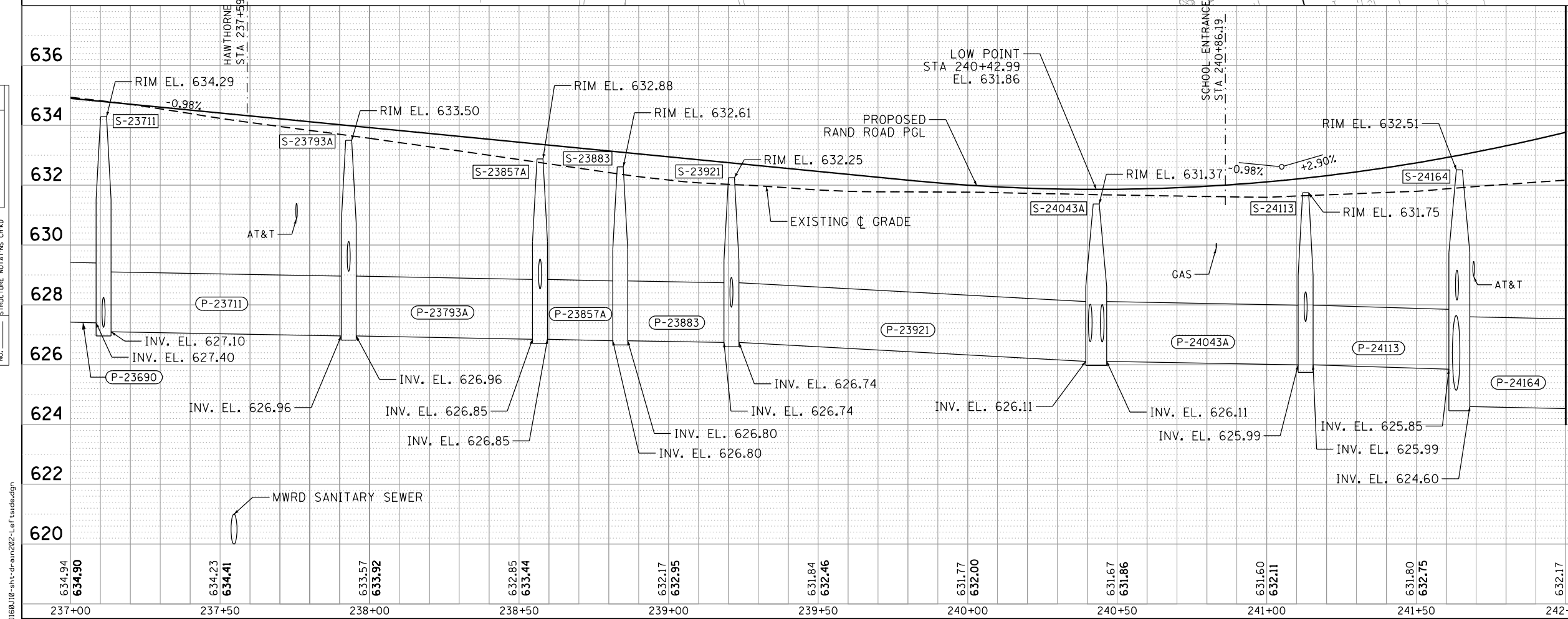
**UTILITY LEGEND**

- GAS
- COMBINED SEWER
- SANITARY SEWER
- WATER
- ELECTRICAL
- AERIAL
- TELEPHONE

0 2' 4' 6'  
 VERTICAL SCALE IN FEET

0 20' 40' 60'  
 SCALE IN FEET

REVISD ENTIRE SHEET 5/28/2024



USER NAME = F1naw1M	DESIGNED - PDB	REVISED -
	DRAWN - PDB	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - OIU	REVISED -
PLOT DATE = 5/1/2024	DATE - 5/1/2024	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

DRAINAGE AND UTILITIES  
 NORTH SYSTEM

SCALE: 1"=20' SHEET 3 OF 14 SHEETS STA. 237+00 TO STA. 242+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3523	120-Y-B	COOK	267	56
CONTRACT NO. 60J10				
ILLINOIS FED. AID PROJECT				

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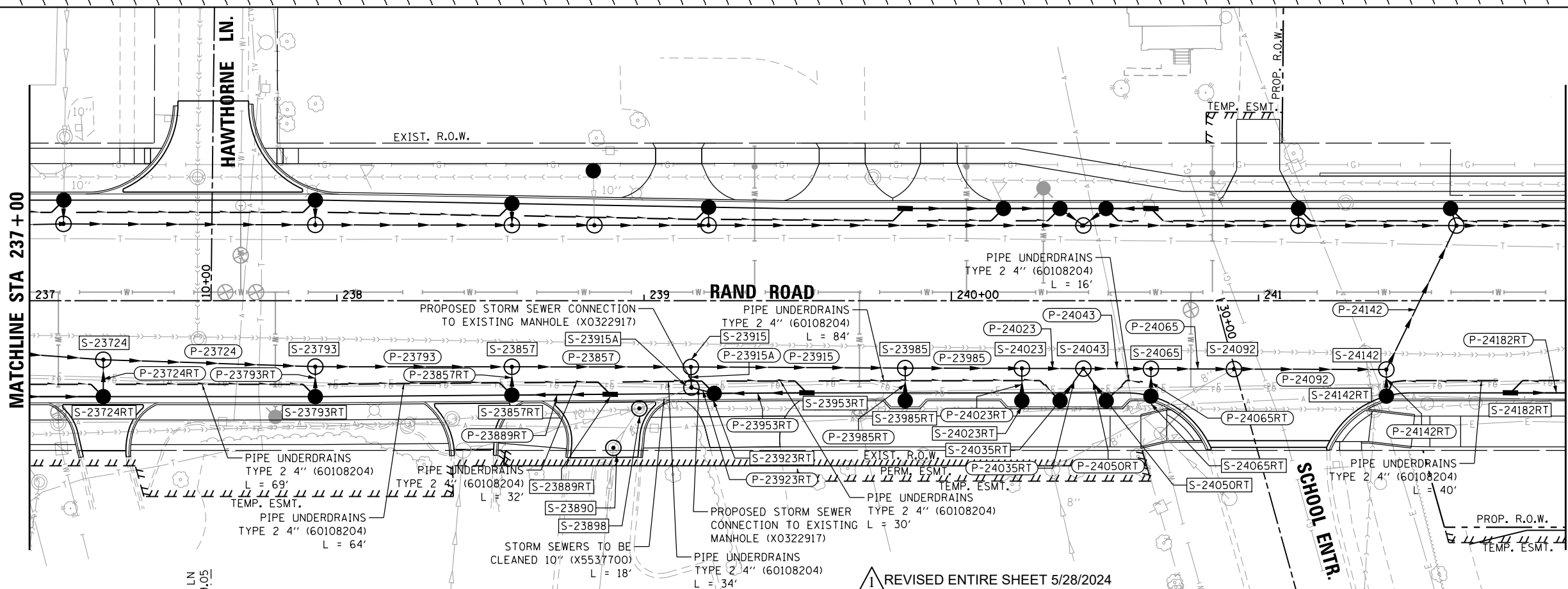
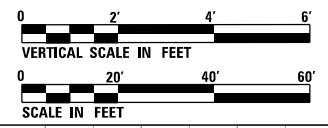
NOTE:  
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 2. SEE WATERMAIN SHEETS FOR PROPOSED WATERMAIN CROSSING INFO.

**DRAINAGE LEGEND**

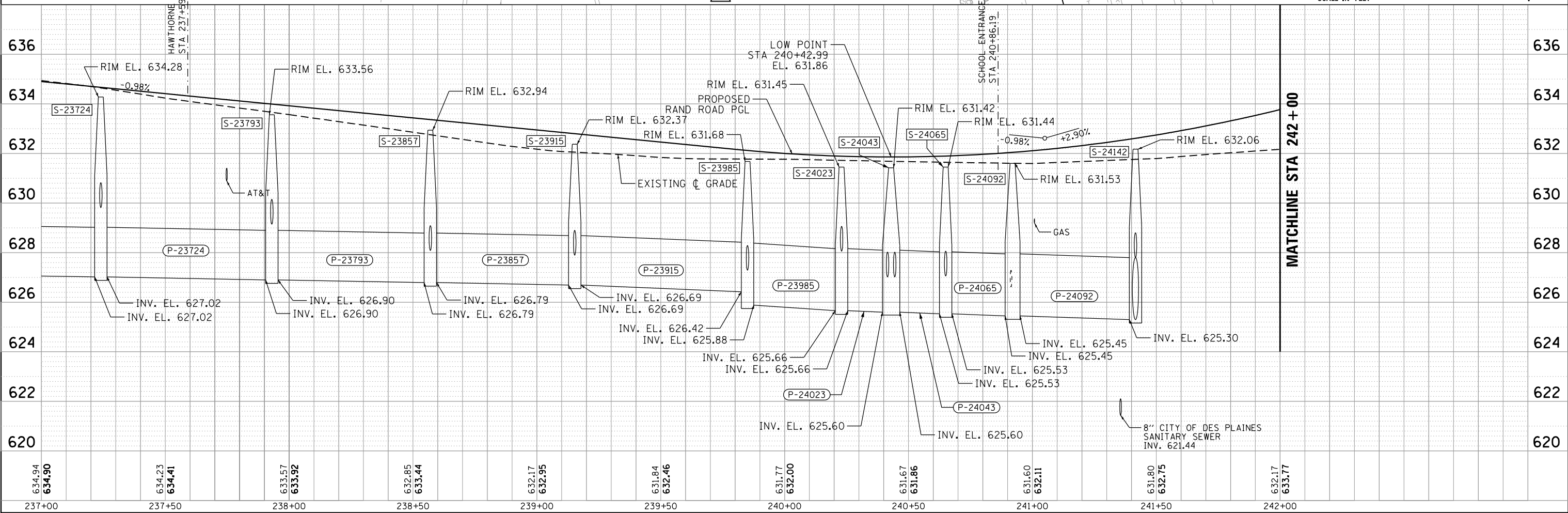
- EXISTING STORM SEWER
- PROPOSED STORM SEWER
- PROPOSED UNDERDRAIN
- DRAINAGE STRUCTURE NUMBER
- DRAINAGE PIPE NUMBER
- PROPOSED CATCH BASIN
- PROPOSED MANHOLE
- PROPOSED INLET
- EXISTING CATCH BASIN
- EXISTING MANHOLE

**UTILITY LEGEND**

- GAS
- COMBINED SEWER
- SANITARY SEWER
- WATER
- ELECTRICAL
- AERIAL
- TELEPHONE



REVISD ENTIRE SHEET 5/28/2024



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DRAWN	
CHECKED	
DATE	

FILE NAME = D:\60\10-ent-drain202-RightSide.dgn



USER NAME = FmawicM  
 DESIGNED - PDB  
 DRAWN - PDB  
 CHECKED - OIU  
 DATE - 5/1/2024

DESIGNED - PDB  
 DRAWN - PDB  
 CHECKED - OIU  
 DATE - 5/1/2024

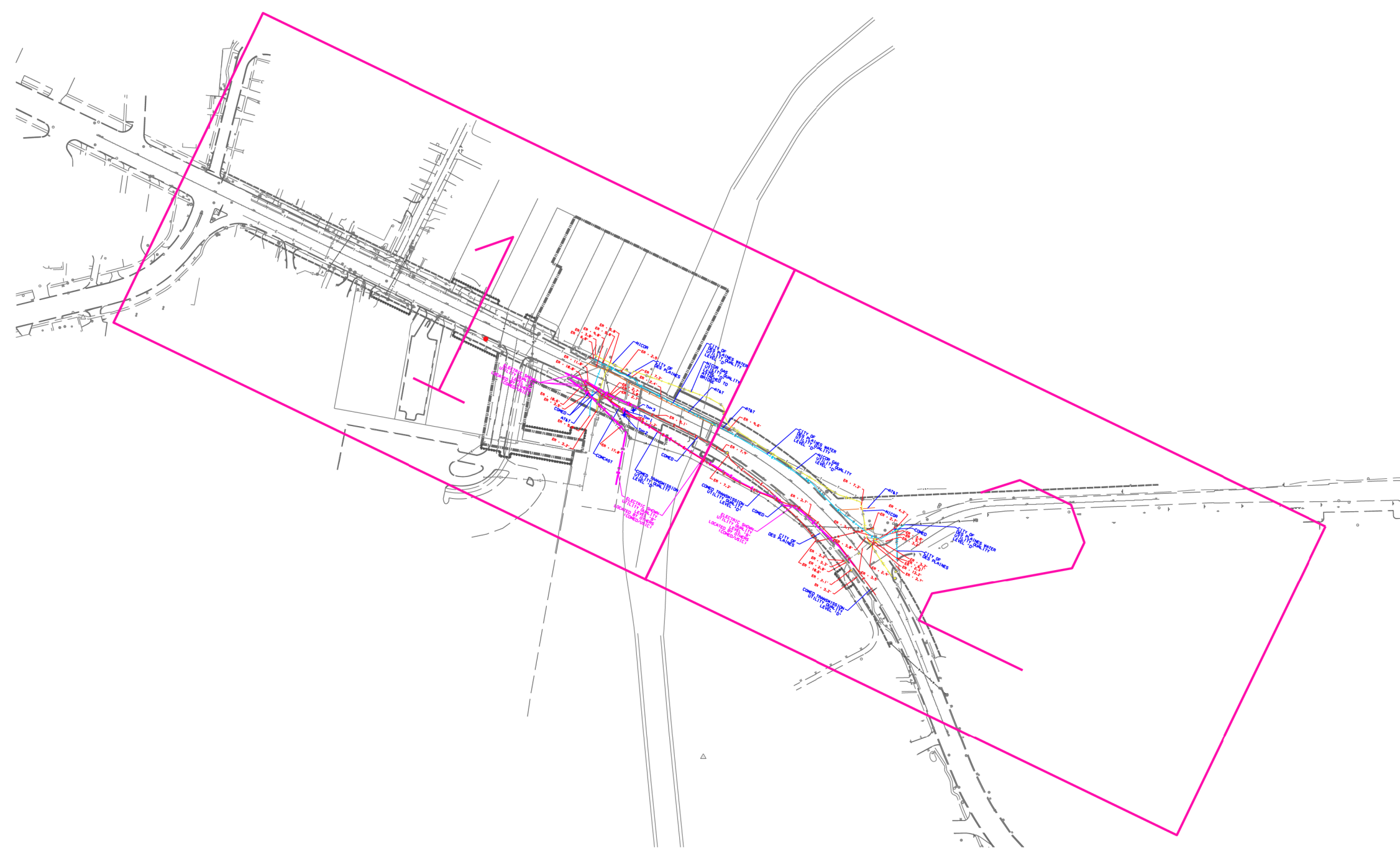
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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

DRAINAGE AND UTILITIES  
 SOUTH SYSTEM

SCALE: 1"=20' SHEET 4 OF 14 SHEETS STA. 237+00 TO STA. 242+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3523	120-Y-B	COOK	267	57
CONTRACT NO. 60J10				
ILLINOIS FED. AID PROJECT				



1

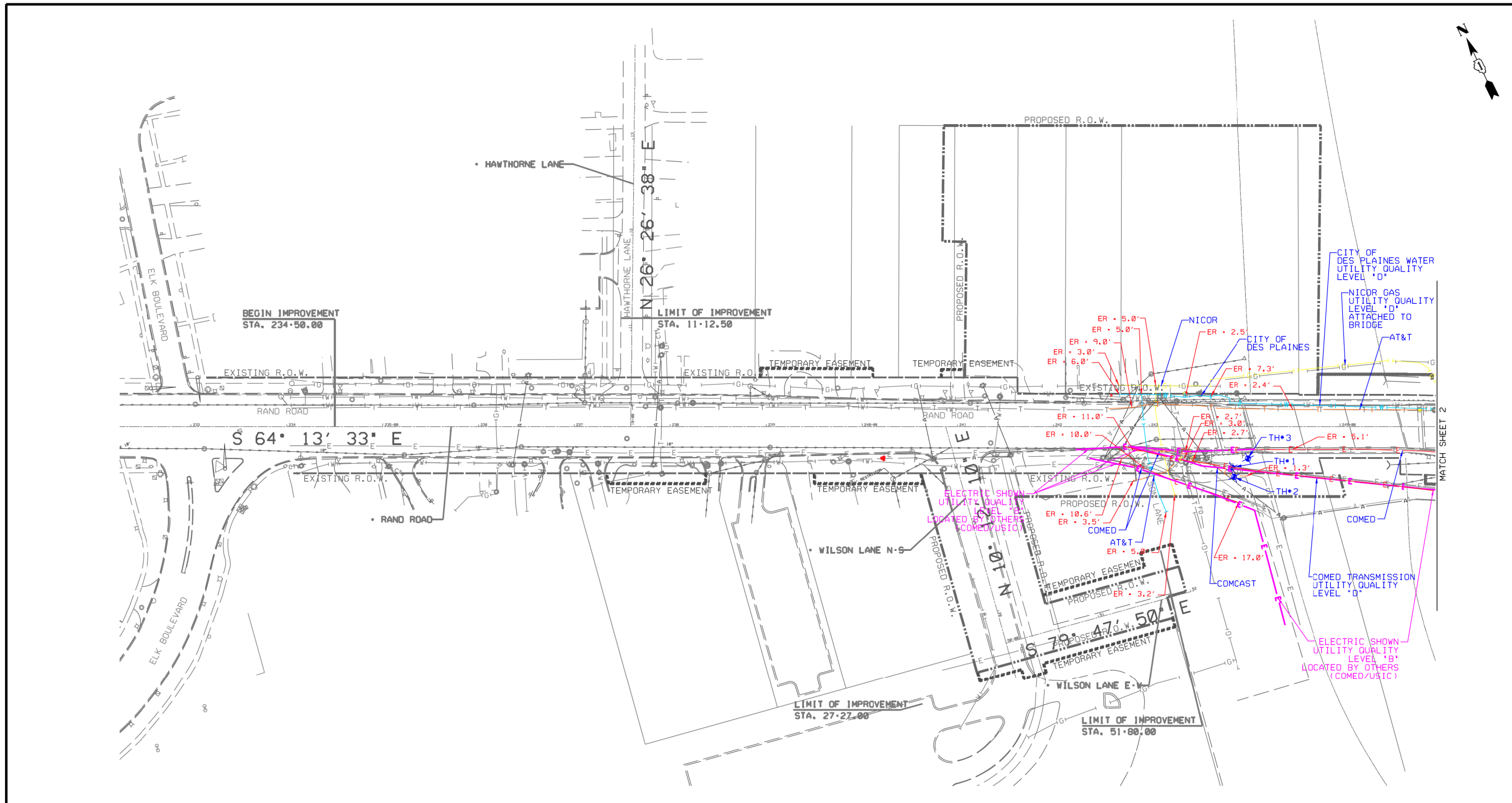
<p>—A—A— AERIAL          —U—U— UNKNOWN          —O—O— OIL          —CTV—CTV— CABLE TV          —T—T— TELEPHONE          —G—G— GAS          —E—E— ELECTRIC          —E—E— ELECTRIC (LOCATED BY OTHERS)          —W—W— WATER          —FM—FM— FORCE MAIN          —FO—FO— FIBER OPTIC          —FO—FO— FIBER OPTIC          END OF INFORMATION          T2 TEST HOLE</p>	<p>UTILITY OWNERS</p> <p>AT&amp;T - FIBER OPTIC          AT&amp;T - TELEPHONE          CITY OF DES PLAINES WATER - WATER          COM-ED - ELECTRIC          COMCAST - CABLE TV          NICOR - GAS</p>	<p>UTILITIES SHOWN ON THESE PLANS AS DEPICTED IN THE LEGEND HAVE BEEN INVESTIGATED BY T2 IN ACCORDANCE WITH SUE INDUSTRY STANDARDS. ALL OTHER INFORMATION SHOWN HAS BEEN PROVIDED TO T2 BY OTHERS. T2'S ORIGINAL QL "B" SUE FIELD INVESTIGATION WAS PERFORMED 5/18/13 THROUGH 5/23/13. CHANGES TO UTILITIES AFTER 5/23/13 MAY HAVE BEEN MADE AND THEREFORE MAY RESULT IN VARIANCES FROM THIS PLAN. CONSIDERATION SHOULD BE GIVEN TO UPDATING THIS PLAN IF DEEMED ADVISABLE PRIOR TO FINAL DESIGN AND CONSTRUCTION.</p> <p>ADDITIONAL QL-A AND QL-B FIELD INVESTIGATION PERFORMED 7/20/21 THROUGH 8/17/21.</p>	<p>ALL UTILITIES SHOWN QUALITY LEVEL "B" UNLESS NOTED OTHERWISE.</p> <p>ELECTRONIC READINGS (ER'S) ARE PROVIDED FOR INFORMATION ONLY. T2 DOES NOT GUARANTEE THE ACCURACY OF ELECTRONIC READINGS.</p> <p>ELECTRIC SHOWN IN PINK WAS INVESTIGATED BY COMED AND THE FIELD LOCATE WAS PERFORMED BY USIC. CLAASSEN WHITE &amp; ASSOCIATES HAD SURVEYED THE FIELD MARKINGS BY USIC AS REQUESTED BY IDOT FOR INFORMATIONAL PURPOSES ONLY.</p>		<p>CLAASSEN, WHITE &amp; ASSOCIATES, P.C.          LAND SURVEYORS          121 AIRPORT DRIVE, UNIT 1, JOLIET, ILLINOIS 60431          (815) 744-3728 CLAASSENWHITECASURVEY.COM</p> <p>T2 JOB NO. 1L09510530, 20823          SUE PLAN PAGE COVER</p>
<p>UTILITY QUALITY LEVEL "A" : VISUALLY VERIFIED TEST HOLE          UTILITY QUALITY LEVEL "B" : DESIGNATING          UTILITY QUALITY LEVEL "C" : RESEARCH WITH SURVEY          UTILITY QUALITY LEVEL "D" : RECORDS RESEARCH</p>	<p>DESIGNED MS          DRAWN SRK          CHECKED KFS          DATE 6/11/13</p>	<p>REVISION 1: 8/24/21 ADDED TEST HOLES #1-3 AND REFRESHED UTILITY DESIGNATION          REVISION 2: 10/26/21 ADDED QLB ELECTRIC BY OTHERS          REVISED</p>	<p>STATE OF ILLINOIS          DEPARTMENT OF TRANSPORTATION</p> <p>RAND ROAD AT DES PLAINES RIVER          DES PLAINES, ILLINOIS</p>	<p>F.A.U. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO.          3523 120Y-B COOK 267 67A</p> <p>CONTRACT NO. 60J10          ILLINOIS FED. AID PROJECT</p>	

<p>USER NAME : #USER#          DESIGNED - MCK          DRAWN - MCK          CHECKED - MXF          PLOT DATE : #DATE#          DATE - 01/10/2024</p>	<p>REVISION -          REVISED -          REVISED -          REVISED -          REVISED -</p>	<p>STATE OF ILLINOIS          DEPARTMENT OF TRANSPORTATION</p>	<p>SUE SURVEY          SCALE: NA SHEET 1 OF 3 SHEETS STA. TO STA.</p>	<p>F.A.U. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO.          3523 120-Y-B COOK 267 67A</p> <p>CONTRACT NO. 60J10          ILLINOIS FED. AID PROJECT</p>
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1 REVISED ENTIRE SHEET 5/28/2024

FILE NAME = #FILE#





	AERIAL UNKNOWN
	OIL
	CABLE TV
	TELEPHONE
	GAS
	ELECTRIC
	ELECTRIC (LOCATED BY OTHERS)
	WATER
	FORCE MAIN
	FIBER OPTIC
	END OF INFORMATION
	T2 TEST HOLE

UTILITY OWNERS	
AT&T	FIBER OPTIC
AT&T	TELEPHONE
CITY OF DES PLAINES	WATER
COM-ED	ELECTRIC
COMCAST	CABLE TV
NICOR	GAS

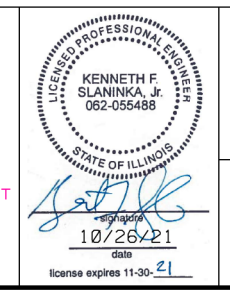
UTILITIES SHOWN ON THESE PLANS AS DEPICTED IN THE LEGEND HAVE BEEN INVESTIGATED BY T2 IN ACCORDANCE WITH SUE INDUSTRY STANDARDS. ALL OTHER INFORMATION SHOWN HAS BEEN PROVIDED TO T2 BY OTHERS. T2'S ORIGINAL QL'B' SUE FIELD INVESTIGATION WAS PERFORMED 5/10/13 THROUGH 5/23/13. CHANGES TO UTILITIES AFTER 5/23/13 MAY HAVE BEEN MADE AND THEREFORE MAY RESULT IN VARIANCES FROM THIS PLAN. CONSIDERATION SHOULD BE GIVEN TO UPDATING THIS PLAN IF DEEMED ADVISABLE PRIOR TO FINAL DESIGN AND CONSTRUCTION.

ADDITIONAL QL-A AND QL-B FIELD INVESTIGATION PERFORMED 7/20/21 THROUGH 8/17/21.

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

ELECTRONIC READINGS (ER'S) ARE PROVIDED FOR INFORMATION ONLY. T2 DOES NOT GUARANTEE THE ACCURACY OF ELECTRONIC READINGS.

ELECTRIC SHOWN IN PINK WAS INVESTIGATED BY COMED AND THE FIELD LOCATE WAS PERFORMED BY USIC. CLAASSEN WHITE & ASSOCIATES HAD SURVEYED THE FIELD MARKINGS BY USIC AS REQUESTED BY IDOT FOR INFORMATIONAL PURPOSES ONLY.



CLAASSEN, WHITE & ASSOCIATES, P.C.  
LAND SURVEYORS  
121 AIRPORT DRIVE, UNIT 1, JOLIET, ILLINOIS 60431  
18151 744-3728 CLAASSENWHITEANDASSOCIATES.COM

T2 JOB NO. IL09510530, 0823  
SUE PLAN PAGE 1 OF 2

UTILITY QUALITY LEVEL "A" : VISUALLY VERIFIED TEST HOLE	DESIGNED MS	REVISION 1: 8/24/21 ADDED TEST HOLES #1-3 AND REFRESHED UTILITY DESIGNATION
UTILITY QUALITY LEVEL "B" : DESIGNATING	DRAWN SRK	REVISION 2: 10/26/21 ADDED QLB ELECTRIC BY OTHERS
UTILITY QUALITY LEVEL "C" : RESEARCH WITH SURVEY	CHECKED KFS	DATE 6/11/13
UTILITY QUALITY LEVEL "D" : RECORDS RESEARCH	DATE	REVISED

DESIGNED MS	REVISION 1: 8/24/21 ADDED TEST HOLES #1-3 AND REFRESHED UTILITY DESIGNATION
DRAWN SRK	REVISION 2: 10/26/21 ADDED QLB ELECTRIC BY OTHERS
CHECKED KFS	DATE 6/11/13
DATE	REVISED

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

RAND ROAD AT DES PLAINES RIVER  
DES PLAINES, ILLINOIS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	120Y-B	COOK	267	67B
CONTRACT NO. 60J10				
ILLINOIS FED. AID PROJECT				

USER NAME : #USER#	DESIGNED - MCK	REVISED -
PLOT SCALE : #SCALE#	DRAWN - MCK	REVISED -
PLOT DATE : #DATE#	CHECKED - MXF	REVISED -
	DATE - 01/10/2024	REVISED -

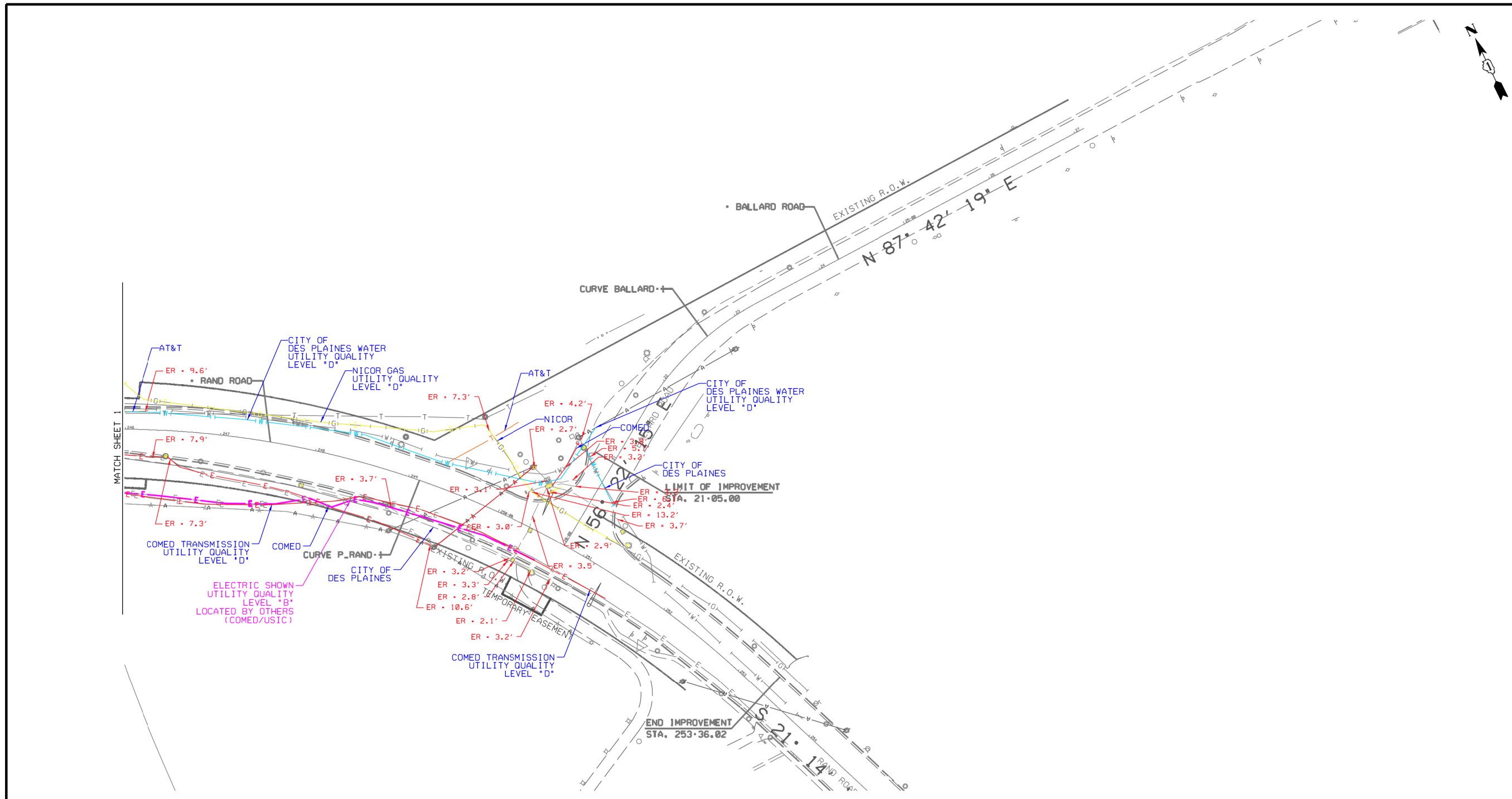
DESIGNED - MCK	REVISED -
DRAWN - MCK	REVISED -
CHECKED - MXF	REVISED -
DATE - 01/10/2024	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUE SURVEY

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3523	120-Y-B	COOK	267	67B
CONTRACT NO. 60J10				
ILLINOIS FED. AID PROJECT				



<p>UTILITY QUALITY LEVEL 'A' : VISUALLY VERIFIED TEST HOLE          UTILITY QUALITY LEVEL 'B' : DESIGNATING          UTILITY QUALITY LEVEL 'C' : RESEARCH WITH SURVEY          UTILITY QUALITY LEVEL 'D' : RECORDS RESEARCH</p>	<p>UTILITY OWNERS</p> <p>AT&amp;T • FIBER OPTIC          AT&amp;T • TELEPHONE          CITY OF DES PLAINES WATER • WATER          COM-ED • ELECTRIC          COMCAST • CABLE TV          NICOR • GAS</p>	<p>UTILITIES SHOWN ON THESE PLANS AS DEPICTED IN THE LEGEND HAVE BEEN INVESTIGATED BY T2 IN ACCORDANCE WITH SUE INDUSTRY STANDARDS. ALL OTHER INFORMATION SHOWN HAS BEEN PROVIDED TO T2 BY OTHERS. T2'S ORIGINAL QL'B' SUE FIELD INVESTIGATION WAS PERFORMED 5/10/13 THROUGH 5/23/13. CHANGES TO UTILITIES AFTER 5/23/13 MAY HAVE BEEN MADE AND THEREFORE MAY RESULT IN VARIANCES FROM THIS PLAN. CONSIDERATION SHOULD BE GIVEN TO UPDATING THIS PLAN IF DEEMED ADVISABLE PRIOR TO FINAL DESIGN AND CONSTRUCTION.</p> <p>ADDITIONAL QL-A AND QL-B FIELD INVESTIGATION PERFORMED 7/20/21 THROUGH 8/17/21.</p>	<p>ALL UTILITIES SHOWN QUALITY LEVEL 'B' UNLESS NOTED OTHERWISE.</p> <p>ELECTRONIC READINGS (ER'S) ARE PROVIDED FOR INFORMATION ONLY. T2 DOES NOT GUARANTEE THE ACCURACY OF ELECTRONIC READINGS.</p> <p>ELECTRIC SHOWN IN PINK WAS INVESTIGATED BY COMED AND THE FIELD LOCATE WAS PERFORMED BY USIC. CLAASSEN WHITE &amp; ASSOCIATES HAD SURVEYED THE FIELD MARKINGS BY USIC AS REQUESTED BY IDOT FOR INFORMATIONAL PURPOSES ONLY.</p>		<p>CLAASSEN, WHITE &amp; ASSOCIATES, P.C.          121 AIRPORT DRIVE, UNIT 1, JOLIET, ILLINOIS 60431          (815) 744-3728 CLAASSENWHITEENGINEERSURVEY.COM</p> <p>T2 JOB NO. IL09510530, 0823          SUE PLAN PAGE 2 OF 2</p>		
<p>DESIGNED MS          DRAWN SRK          CHECKED KFS          DATE 6/11/13</p>		<p>REVISION 1: 8/24/21 ADDED TEST HOLES #1-3 AND REFRESHED UTILITY DESIGNATION          REVISION 2: 10/26/21 ADDED QLB ELECTRIC BY OTHERS          REVISED</p>		<p>STATE OF ILLINOIS          DEPARTMENT OF TRANSPORTATION</p>		<p>RAND ROAD AT DES PLAINES RIVER          DES PLAINES, ILLINOIS</p>	

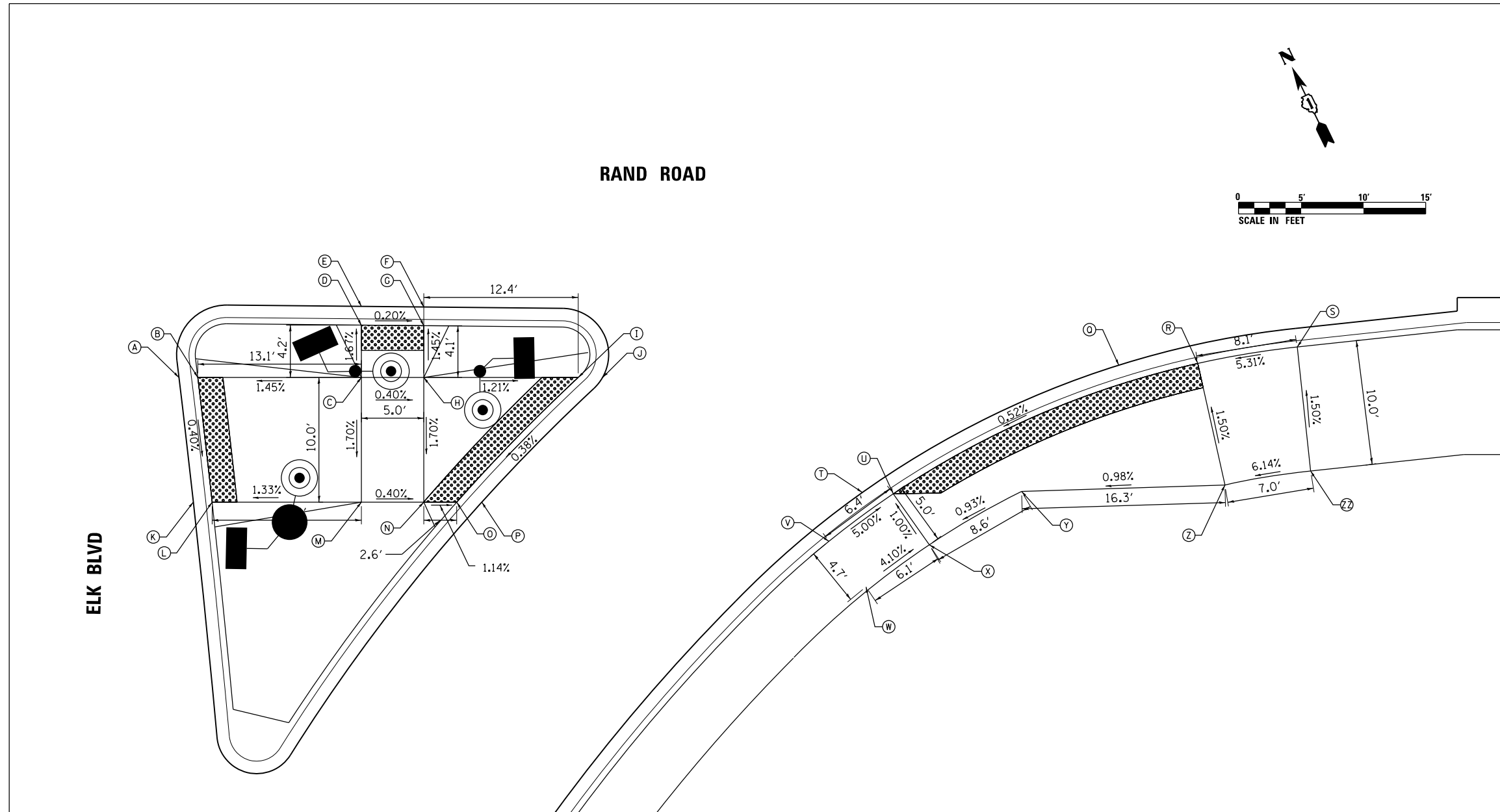
USER NAME : #USER#	DESIGNED - MCK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUE SURVEY	F.A.U. RTE. 3523	SECTION 120-Y-B	COUNTY COOK	TOTAL SHEETS 267	SHEET NO. 67C		
PLOT SCALE : #SCALE#	CHECKED - MXF	REVISED -			SCALE: NA	SHEET 3 OF 3 SHEETS	STA. TO STA.	CONTRACT NO. 60J10			
PLOT DATE : #DATE#	DATE - 01/10/2024	REVISED -			ILLINOIS FED. AID PROJECT						

REVISD ENTIRE SHEET 5/28/2024

1

FILE NAME = #FILES#

# ADA PEDESTRIAN RAMPS AT RAND ROAD AND ELK BLVD



ELK BLVD

RAND ROAD

POINT NO.	STATION	OFFSET	SIDE	ELEVATION
A	233+21.13	37.65'	RT	634.39
B	233+22.64	37.65'	RT	634.38
C	233+35.76	37.65'	RT	634.57
D	233+35.76	33.45'	RT	634.50
E	233+35.76	31.95'	RT	634.51
F	233+40.76	32.00'	RT	634.50
G	233+40.76	33.50'	RT	634.49
H	233+40.76	37.65'	RT	634.55
I	233+53.14	37.65'	RT	634.40
J	233+55.09	37.65'	RT	634.41
K	233+22.28	47.65'	RT	634.35
L	233+23.79	47.65'	RT	634.34
M	233+35.76	47.65'	RT	634.40
N	233+40.76	47.65'	RT	634.38
O	233+43.40	47.65'	RT	634.35
P	233+45.41	47.65'	RT	634.36

POINT NO.	STATION	OFFSET	SIDE	ELEVATION
Q	233+94.47	37.65'	RT	634.34
R	234+02.80	36.52'	RT	634.39
S	234+10.78	35.21'	RT	634.82
T	233+21.13	37.65'	RT	634.25
U	233+21.13	37.65'	RT	634.25
V	233+73.23	50.79'	RT	634.57
W	233+76.21	54.45'	RT	634.53
X	233+81.28	51.07'	RT	634.30
Y	233+88.68	46.79'	RT	634.38
Z	234+04.98	46.28'	RT	634.54
ZZ	234+11.85	45.15'	RT	634.97

**NOTES:**

- ALL STATIONS ARE RELATIVE TO RAND ROAD CENTERLINE

**LEGEND**

DETECTABLE WARNING SURFACE

REVISED ENTIRE SHEET 5/28/2024

FILE NAME = D:\6210-rt-00\6210.dgn



USER NAME = F10w1cM	DESIGNED - MCK	REVISED -
	DRAWN - MCK	REVISED -
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PLOT DATE = 5/1/2024	DATE - 01/10/2024	REVISED -

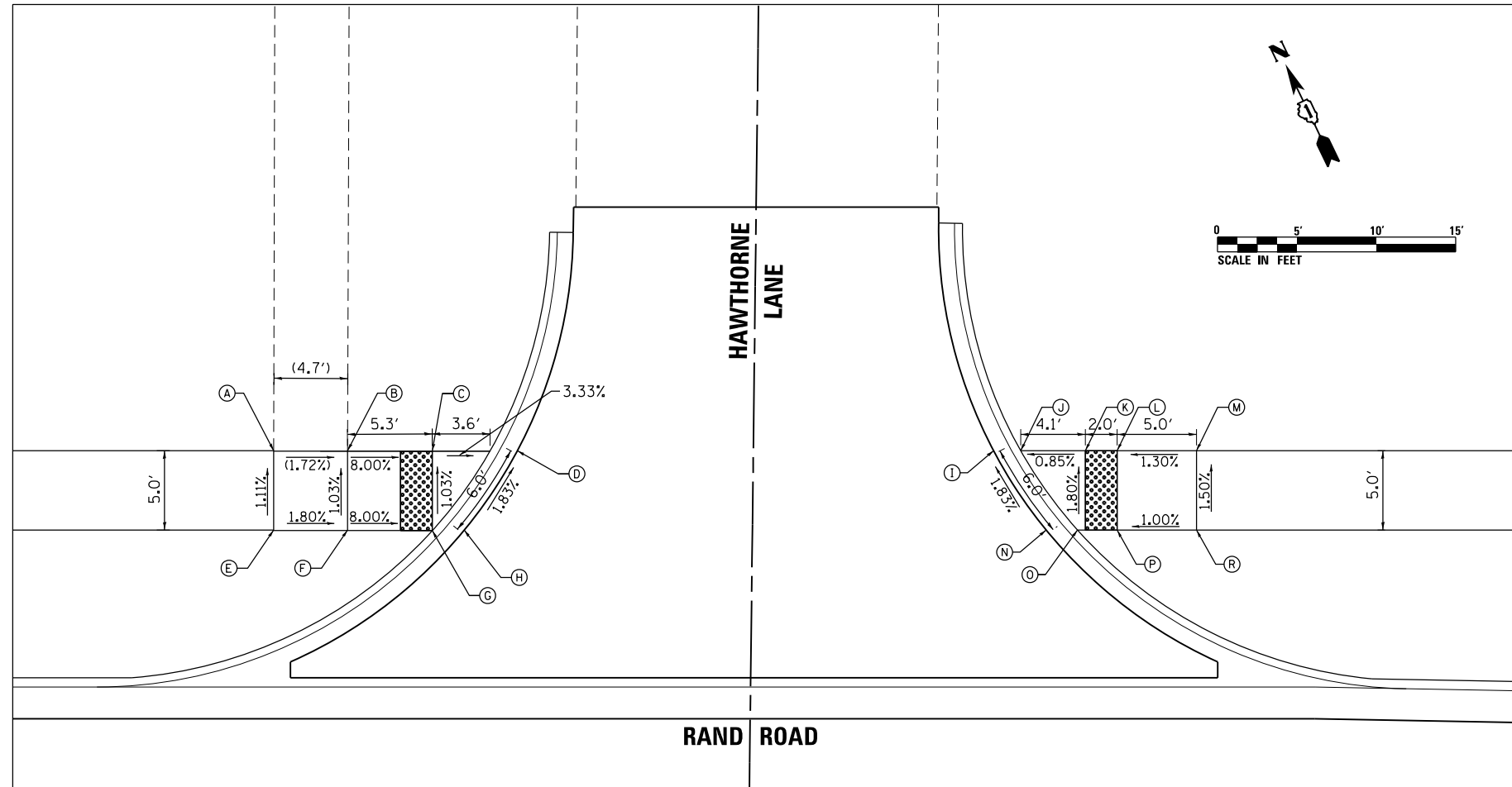
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CONSTRUCTION DETAILS  
ADA RAMPS**

SCALE: 1" = 5'    SHEET 3 OF 7 SHEETS    STA.    TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3523	120-Y-B	COOK	267	69
CONTRACT NO. 60J10				
ILLINOIS FED. AID PROJECT				

**ADA PEDESTRIAN RAMPS AT  
RAND ROAD AND HAWTHORNE LANE**



POINT NO.	STATION	OFFSET	SIDE	ELEVATION
A	237+29.42	49.64'	LT	634.01
B	237+34.07	49.61'	LT	633.93
C	237+39.41	49.61'	LT	633.50
D	237+44.77	49.64'	LT	633.40
E	237+29.42	44.64'	LT	634.06
F	237+34.07	44.61'	LT	633.98
G	237+39.41	44.61'	LT	633.55
H	237+41.42	44.64'	LT	633.51
I	237+74.76	49.64'	LT	632.92
J	237+76.47	49.64'	LT	632.92
K	237+80.54	49.64'	LT	632.95
L	237+82.54	49.64'	LT	632.97
M	237+87.54	49.64'	LT	633.03
N	237+78.08	44.64'	LT	633.03
O	237+80.05	44.64'	LT	633.04
P	237+82.54	44.64'	LT	633.06
R	237+87.54	44.64'	LT	633.11

**NOTES:**

1. ALL STATIONS ARE RELATIVE TO RAND ROAD CENTERLINE

**LEGEND**

DETECTABLE WARNING SURFACE

REVISED ENTIRE SHEET 5/28/2024

FILE NAME = D:\6210-rt-10\6210-rt-10.dwg



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	DRAWN - MCK	REVISED -
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PLOT DATE = 5/1/2024	DATE - 01/10/2024	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

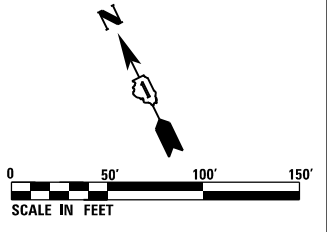
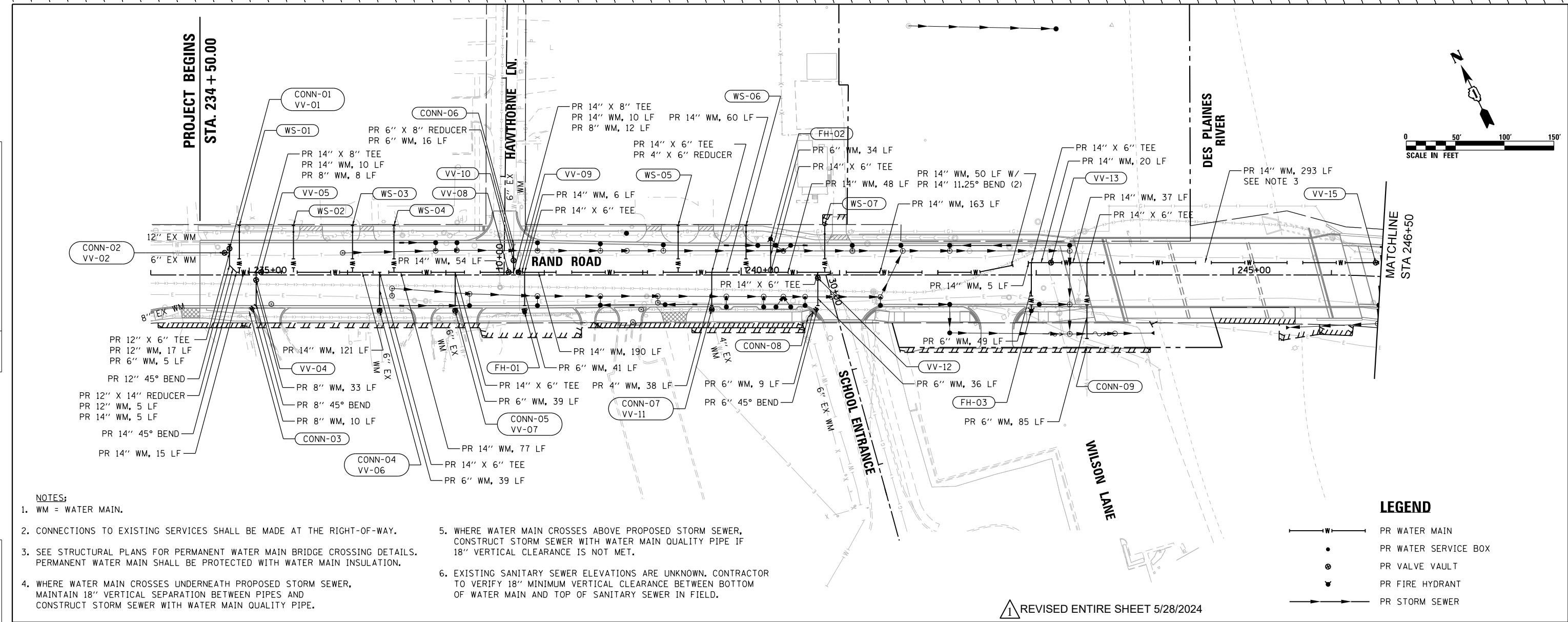
**CONSTRUCTION DETAILS  
ADA RAMPS**

SCALE: 1" = 5'    SHEET 4 OF 7 SHEETS    STA. 236+50.00 TO STA. 238+50.00

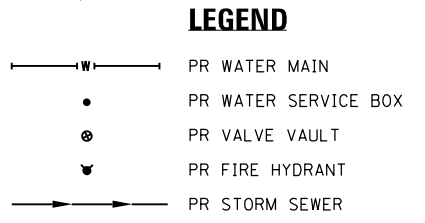
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3523	120-Y-B	COOK	267	70
				CONTRACT NO. 60J10
ILLINOIS FED. AID PROJECT				

DATE	
BY	
SURVEYED	CHECKED
PLOTTED	ALIGNED
NOTE BOOK	NO. _____
CADD FILE NAME	_____

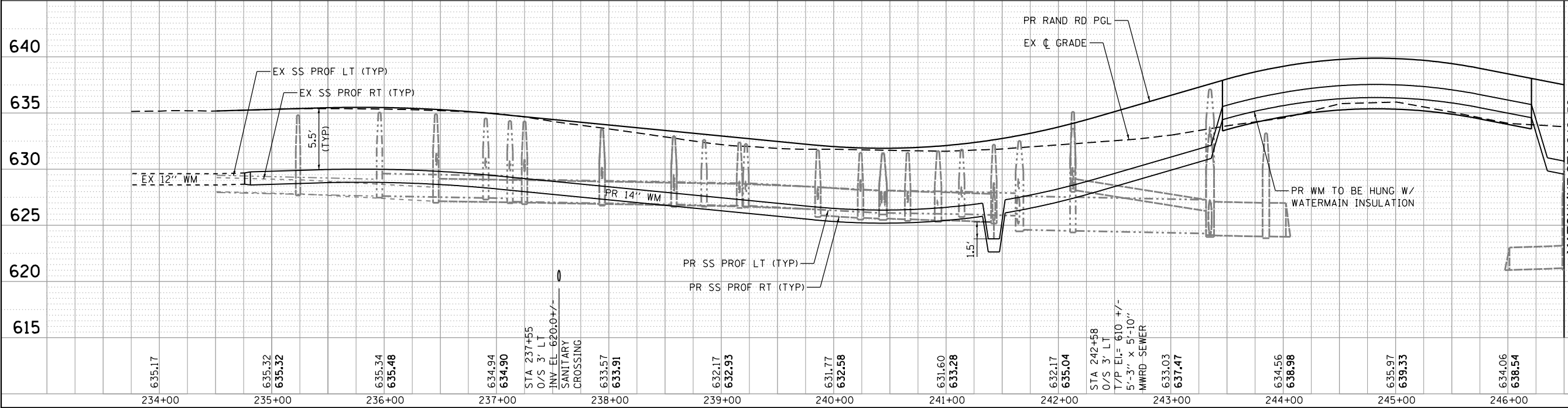
DATE	
BY	
SURVEYED	CHECKED
PLOTTED	GRADES
NOTE BOOK	NO. _____
STRUCTURE	NOTATIONS



- NOTES:**
- WM = WATER MAIN.
  - CONNECTIONS TO EXISTING SERVICES SHALL BE MADE AT THE RIGHT-OF-WAY.
  - SEE STRUCTURAL PLANS FOR PERMANENT WATER MAIN BRIDGE CROSSING DETAILS. PERMANENT WATER MAIN SHALL BE PROTECTED WITH WATER MAIN INSULATION.
  - WHERE WATER MAIN CROSSES UNDERNEATH PROPOSED STORM SEWER, MAINTAIN 18" VERTICAL SEPARATION BETWEEN PIPES AND CONSTRUCT STORM SEWER WITH WATER MAIN QUALITY PIPE.
  - WHERE WATER MAIN CROSSES ABOVE PROPOSED STORM SEWER, CONSTRUCT STORM SEWER WITH WATER MAIN QUALITY PIPE IF 18" VERTICAL CLEARANCE IS NOT MET.
  - EXISTING SANITARY SEWER ELEVATIONS ARE UNKNOWN. CONTRACTOR TO VERIFY 18" MINIMUM VERTICAL CLEARANCE BETWEEN BOTTOM OF WATER MAIN AND TOP OF SANITARY SEWER IN FIELD.



⚠️ REVISED ENTIRE SHEET 5/28/2024



FILE NAME = D:\60110-rt-ut-11202.dgn



USER NAME = F100101M	DESIGNED - JLB	REVISED -
	DRAWN - JLB	REVISED -
	CHECKED - MXF	REVISED -
	DATE - 06/23/2023	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

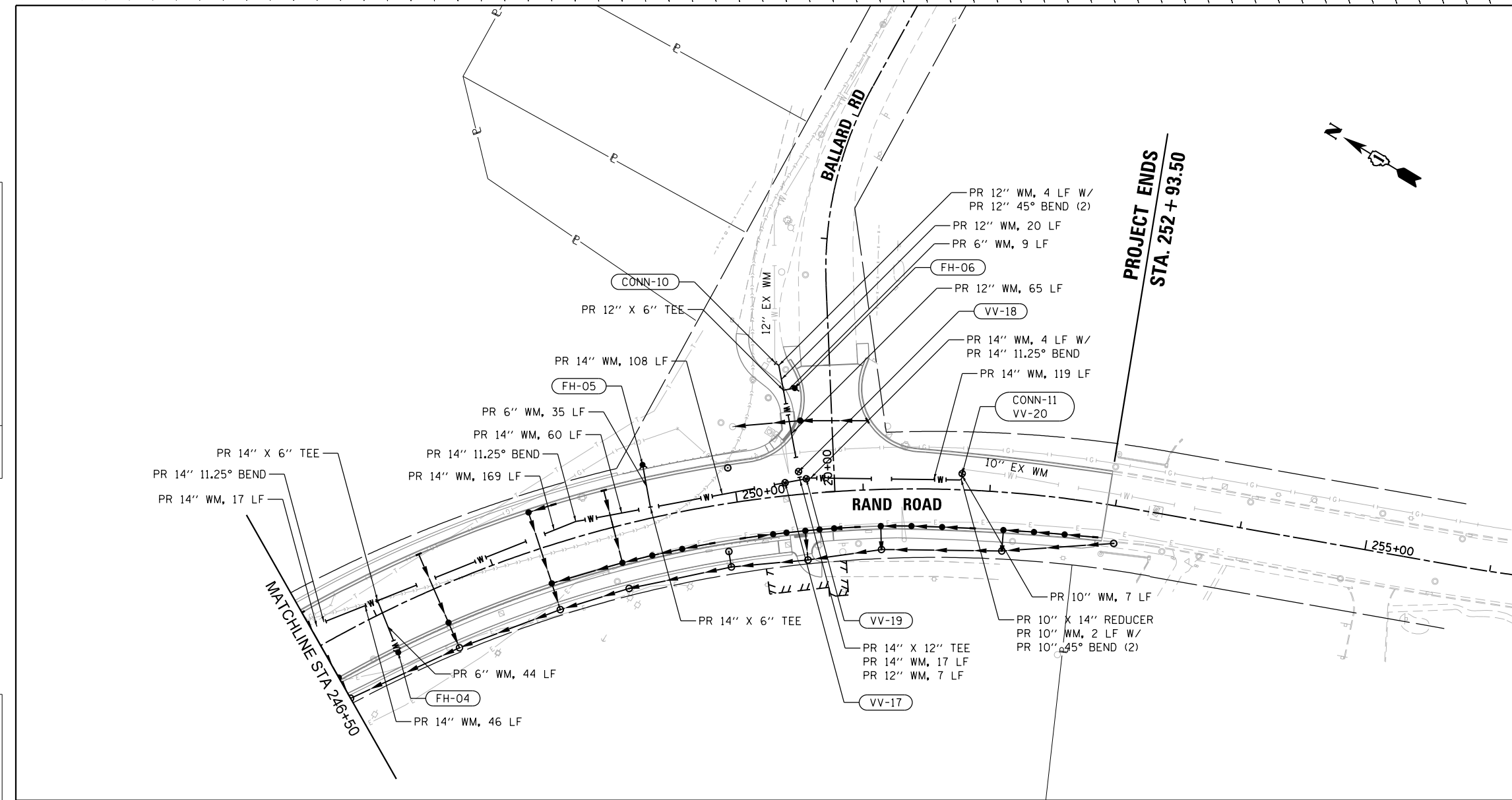
<b>WATER MAIN PLANS PLAN &amp; PROFILE</b>	
SCALE: 1" = 50'	SHEET 1 OF 2 SHEETS
STA. 234+50.00 TO STA. 246+50.00	

F.A.U. RTE. 3523	SECTION 120-Y-B	COUNTY COOK	TOTAL SHEETS 267	SHEET NO. 77
CONTRACT NO. 60J10				
ILLINOIS FED. AID PROJECT				



DATE	
BY	
PLAN	SURVEYED
	PLOTTED
	CHECKED
	ALIGNED
	CAD FILE NAME
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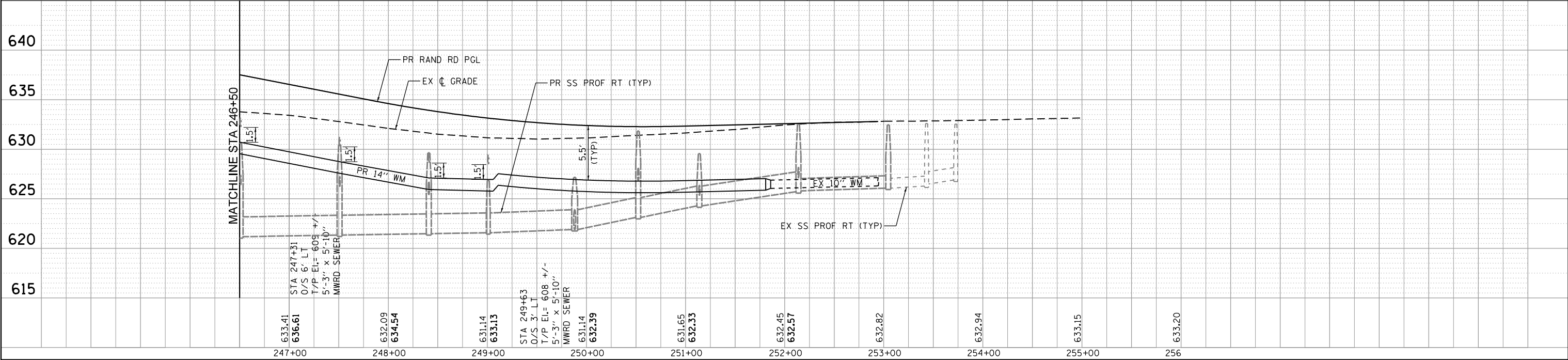
DATE	
BY	
PROFILE	SURVEYED
	GRADES CHECKED
	STRUCTURE NOTATIONS CHECKED
	NO.



- NOTES:**
1. WM = WATER MAIN.
  2. WHERE WATER MAIN CROSSES UNDERNEATH PROPOSED STORM SEWER, MAINTAIN 18" VERTICAL SEPARATION BETWEEN PIPES AND CONSTRUCT STORM SEWER WITH WATER MAIN QUALITY PIPE.
  3. WHERE WATER MAIN CROSSES ABOVE PROPOSED STORM SEWER, CONSTRUCT STORM SEWER WITH WATER MAIN QUALITY PIPE IF 18" VERTICAL CLEARANCE IS NOT MET.
  4. EXISTING SANITARY SEWER ELEVATIONS ARE UNKNOWN. CONTRACTOR TO VERIFY 18" MINIMUM VERTICAL CLEARANCE BETWEEN BOTTOM OF WATER MAIN AND TOP OF SANITARY SEWER IN FIELD.
  5. WHERE WATER MAIN CROSSES ABOVE PROPOSED STORM SEWER, CONSTRUCT STORM SEWER WITH WATER MAIN QUALITY PIPE IF 18" VERTICAL CLEARANCE IS NOT MET.
  6. EXISTING SANITARY SEWER ELEVATIONS ARE UNKNOWN. CONTRACTOR TO VERIFY 18" MINIMUM VERTICAL CLEARANCE BETWEEN BOTTOM OF WATER MAIN AND TOP OF SANITARY SEWER IN FIELD.

**LEGEND**

- PR WATER MAIN
- PR WATER SERVICE BOX
- PR VALVE VAULT
- PR FIRE HYDRANT
- PR STORM SEWER



FILE NAME = D:\6010-rt-11203.dgn



USER NAME = F1naw1M	DESIGNED - JLB	REVISED -
	DRAWN - JLB	REVISED -
PLOT SCALE = 100.0000' / 1"	CHECKED - MWR	REVISED -
PLOT DATE = 5/1/2024	DATE - 06/23/2023	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

WATER MAIN PLANS

SCALE: 1" = 50' SHEET 2 OF 2 SHEETS STA. 246+50.00 TO STA. 252+93.50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3523	120-Y-B	COOK	267	78
CONTRACT NO. 60J10				
ILLINOIS FED. AID PROJECT				

**WATER SERVICES**

WS-01  
 PR WATER SERVICE LINE, 1.5", 48 LF  
 PR CORPORATION STOP, 1.5"  
 PR CURB STOP, 1.5"  
 PR DOM WATER SERVICE BOX  
 PR WATER SERVICE CONNECTION, 1.5"  
 FIELD VERIFY SERVICE SIZE AND LOCATION

WS-02  
 PR WATER SERVICE LINE, 1.5", 48 LF  
 PR CORPORATION STOP, 1.5"  
 PR CURB STOP, 1.5"  
 PR DOM WATER SERVICE BOX  
 PR WATER SERVICE CONNECTION, 1.5"  
 FIELD VERIFY SERVICE SIZE AND LOCATION

WS-03  
 PR WATER SERVICE LINE, 1.5", 48 LF  
 PR CORPORATION STOP, 1.5"  
 PR CURB STOP, 1.5"  
 PR DOM WATER SERVICE BOX  
 PR WATER SERVICE CONNECTION, 1.5"  
 FIELD VERIFY SERVICE SIZE AND LOCATION

WS-04  
 PR WATER SERVICE LINE, 1.5", 48 LF  
 PR CORPORATION STOP, 1.5"  
 PR CURB STOP, 1.5"  
 PR DOM WATER SERVICE BOX  
 PR WATER SERVICE CONNECTION, 1.5"  
 FIELD VERIFY SERVICE SIZE AND LOCATION

WS-05  
 PR WATER SERVICE LINE, 1.5", 48 LF  
 PR CORPORATION STOP, 1.5"  
 PR CURB STOP, 1.5"  
 PR DOM WATER SERVICE BOX  
 PR WATER SERVICE CONNECTION, 1.5"  
 FIELD VERIFY SERVICE SIZE AND LOCATION

WS-06  
 PR WATER SERVICE LINE, 1.5", 48 LF  
 PR CORPORATION STOP, 1.5"  
 PR CURB STOP, 1.5"  
 PR DOM WATER SERVICE BOX  
 PR WATER SERVICE CONNECTION, 1.5"  
 FIELD VERIFY SERVICE SIZE AND LOCATION

WS-07  
 PR WATER SERVICE LINE, 1.5", 48 LF  
 PR CORPORATION STOP, 1.5"  
 PR CURB STOP, 1.5"  
 PR DOM WATER SERVICE BOX  
 PR WATER SERVICE CONNECTION, 1.5"  
 FIELD VERIFY SERVICE SIZE AND LOCATION

**FIRE HYDRANTS**

FH-01  
 PR FH W/ AUX VALVE & VBOX  
 STA 237+80, 0/S 38' RT  
 FINISHED GRADE = 633.96

FH-02  
 PR FH W/ AUX VALVE & VBOX  
 STA 240+30, 0/S 37' LT  
 FINISHED GRADE = 631.74

FH-03  
 PR FH W/ AUX VALVE & VBOX  
 STA 242+95, 0/S 37' RT  
 FINISHED GRADE = 636.32

FH-04  
 PR FH W/ AUX VALVE & VBOX  
 STA 247+02, 0/S 34' RT  
 FINISHED GRADE = 636.31

FH-05  
 PR FH W/ AUX VALVE & VBOX  
 STA 249+33, 0/S 43' LT  
 FINISHED GRADE = 633.81

FH-06  
 PR FH W/ AUX VALVE & VBOX  
 STA 250+53, 0/S 84' LT  
 FINISHED GRADE = 633.41

**VALVE VAULTS**

VV-01  
 PR WV 12"  
 PR VV TY A, 5'-DIA, TY 1 FR, CL  
 STA 234+80, 0/S 27' LT  
 FINISHED GRADE = 634.73

VV-02  
 PR WV 6"  
 PR VV TY A, 4'-DIA, TY 1 FR, CL  
 STA 234+75, 0/S 22' LT  
 FINISHED GRADE = 634.80

VV-03  
 NOT USED

VV-04  
 PR WV 8"  
 PR VV TY A, 4'-DIA, TY 1 FR, CL  
 STA 235+07, 0/S 5' RT  
 FINISHED GRADE = 635.24

VV-05  
 PR WV 14"  
 PR VV TY A, 5'-DIA, TY 1 FR, CL  
 STA 235+12, 0/S 3' LT  
 FINISHED GRADE = 635.30

VV-06  
 PR WV 6"  
 PR VV TY A, 4'-DIA, TY 1 FR, CL  
 STA 236+33, 0/S 36' RT  
 FINISHED GRADE = 635.30

VV-07  
 PR WV 6"  
 PR VV TY A, 4'-DIA, TY 1 FR, CL  
 STA 237+09, 0/S 36' RT  
 FINISHED GRADE = 635.70

VV-08  
 PR WV 14"  
 PR VV TY A, 5'-DIA, TY 1 FR, CL  
 STA 237+64, 0/S 3' LT  
 FINISHED GRADE = 634.22

VV-09  
 PR WV 14"  
 PR VV TY A, 5'-DIA, TY 1 FR, CL  
 STA 237+74, 0/S 3' LT  
 FINISHED GRADE = 634.13

VV-10  
 PR WV 8"  
 PR VV TY A, 4'-DIA, TY 1 FR, CL  
 STA 237+69, 0/S 15' LT  
 FINISHED GRADE = 633.94

VV-11  
 PR WV 4"  
 PR VV TY A, 4'-DIA, TY 1 FR, CL  
 STA 239+70, 0/S 35' RT  
 FINISHED GRADE = 632.20

VV-12  
 PR WV 6"  
 PR VV TY A, 4'-DIA, TY 1 FR, CL  
 STA 240+78, 0/S 3' RT  
 FINISHED GRADE = 631.89

VV-13  
 PR WV 14"  
 PR VV TY A, 5'-DIA, TY 1 FR, CL  
 STA 243+15, 0/S 13' LT  
 FINISHED GRADE = 636.78

VV-14  
 NOT USED

VV-15  
 PR WV 14"  
 PR VV TY A, 5'-DIA, TY 1 FR, CL  
 STA 246+45, 0/S 14' LT  
 FINISHED GRADE = 637.32

VV-16  
 NOT USED

VV-17  
 PR WV 14"  
 PR VV TY A, 5'-DIA, TY 1 FR, CL  
 STA 250+39, 0/S 10' LT  
 FINISHED GRADE = 632.50

VV-18  
 PR WV 12"  
 PR VV TY A, 5'-DIA, TY 1 FR, CL  
 STA 250+50, 0/S 18' LT  
 FINISHED GRADE = 632.61

VV-19  
 PR WV 14"  
 PR VV TY A, 5'-DIA, TY 1 FR, CL  
 STA 250+56, 0/S 12' LT  
 FINISHED GRADE = 632.52

VV-20  
 PR WV 10"  
 PR VV TY A, 5'-DIA, TY 1 FR, CL  
 STA 251+78, 0/S 13' LT  
 FINISHED GRADE = 632.78

**CONNECTIONS TO EXISTING WATER MAIN**

CONN-01  
 PR PRESSURE CONNECTION TO EX WM (12" X 12")  
 STA 234+80, 0/S 31' LT

CONN-02  
 PR NON-PRESSURE CONNECTION TO EX WM  
 PR 8" 45° BEND FOR CONNECTION  
 STA 234+70, 0/S 22' LT

CONN-03  
 PR NON-PRESSURE CONNECTION TO EX WM  
 PR 6" COUPLING SLEEVE FOR CONNECTION  
 STA 235+00, 0/S 37' RT

CONN-04  
 PR NON-PRESSURE CONNECTION TO EX WM  
 PR 6" COUPLING SLEEVE FOR CONNECTION  
 STA 236+33, 0/S 40' RT

CONN-05  
 PR NON-PRESSURE CONNECTION TO EX WM  
 PR 6" COUPLING SLEEVE FOR CONNECTION  
 STA 237+09, 0/S 40' LT

CONN-06  
 PR NON-PRESSURE CONNECTION TO EX WM  
 PR 6" COUPLING SLEEVE FOR CONNECTION  
 STA 237+69, 0/S 31' RT

CONN-07  
 PR NON-PRESSURE CONNECTION TO EX WM  
 PR 4" COUPLING SLEEVE FOR CONNECTION  
 STA 239+70, 0/S 37' RT

CONN-08  
 PR NON-PRESSURE CONNECTION TO EX WM  
 PR 6" 45° BEND FOR CONNECTION  
 STA 240+68, 0/S 43' RT

CONN-09  
 PR NON-PRESSURE CONNECTION TO EX WM  
 PR 6" COUPLING SLEEVE FOR CONNECTION  
 STA 243+51, 0/S 73' RT  
 FIELD VERIFY SERVICE SIZE AND LOCATION

CONN-10  
 PR NON-PRESSURE CONNECTION TO EX WM  
 PR 12" COUPLING SLEEVE FOR CONNECTION  
 STA 250+41, 0/S 105' LT

CONN-11  
 PR PRESSURE CONNECTION TO EX WM (10" X 10")  
 STA 251+78, 0/S 16' LT



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**1** REVISED ENTIRE SHEET 5/28/2024



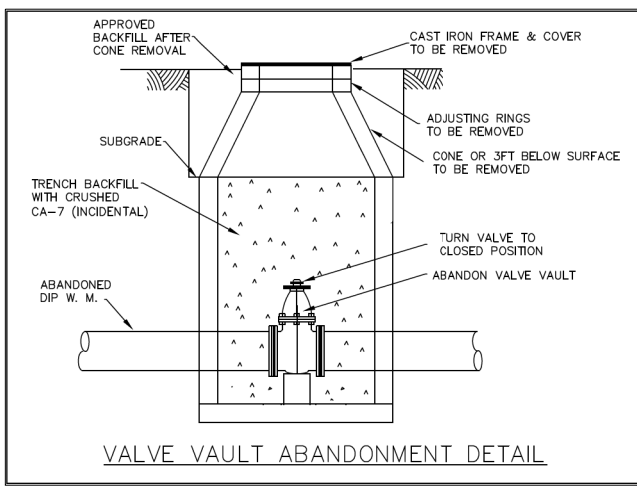
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

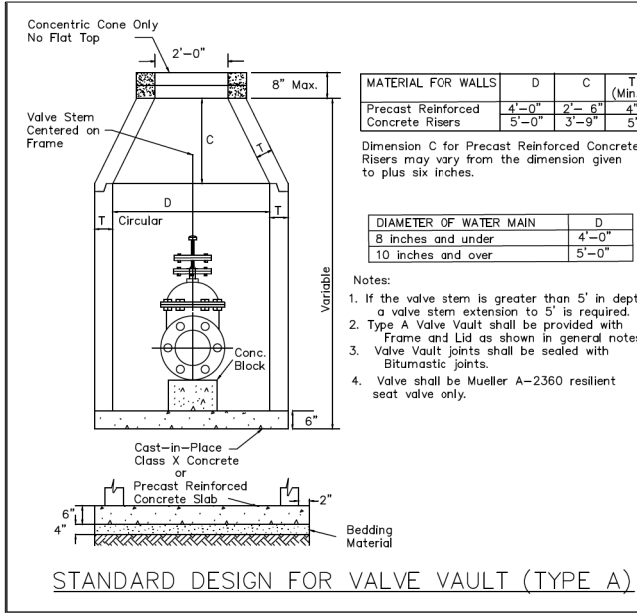
**WATER MAIN PLANS  
 STRUCTURE TAGS**

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

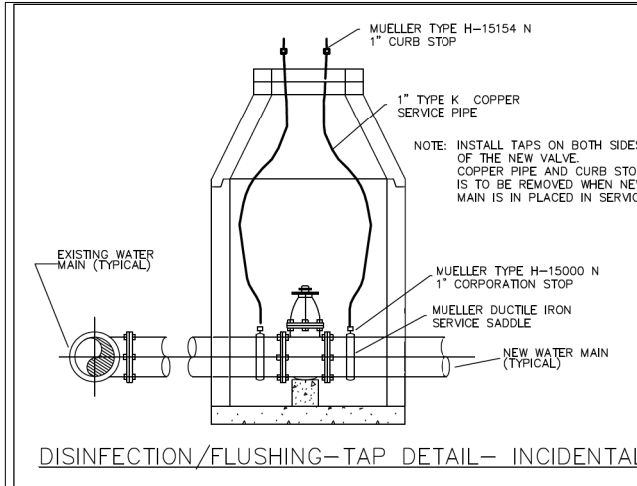
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3523	120-Y-B	COOK	267	79
				CONTRACT NO. 60J10
ILLINOIS FED. AID PROJECT				



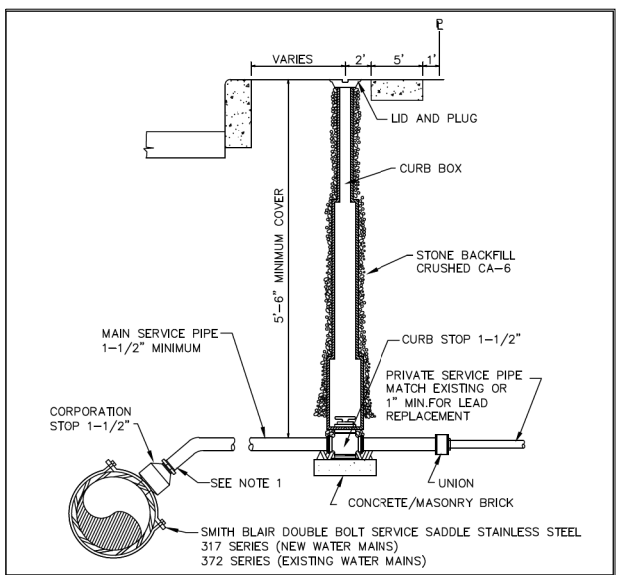
VALVE VAULT ABANDONMENT DETAIL



STANDARD DESIGN FOR VALVE VAULT (TYPE A)



DISINFECTION/FLUSHING-TAP DETAIL- INCIDENTAL

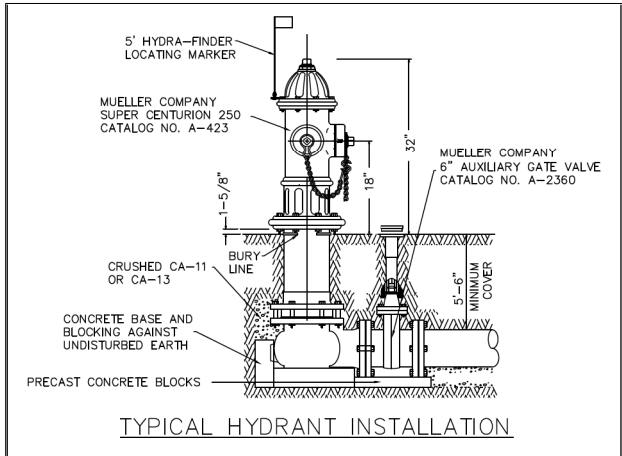


PIPE AND FITTINGS TABLE

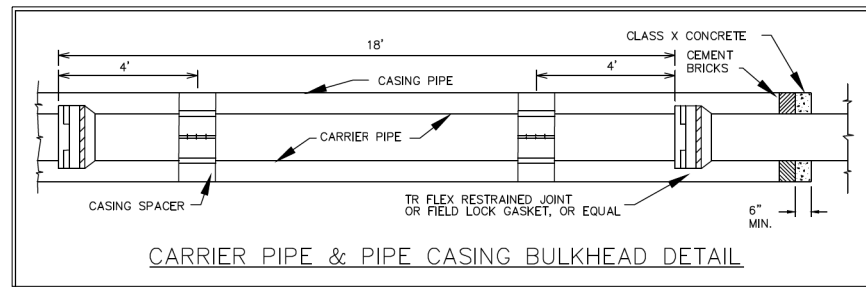
MAIN SERVICE LINE 1-1/2"	CORP STOP	45° BEND	CURB STOP	SS CTS INSERT	UNION	CURB BOX ADAPTER	CURB BOX PRIVATE SERVICE LINE 1"
HDPE CTS SDR 9	MUELLER B2500BN	N/A	MUELLER B25155N	MUELLER #506139	MUELLER H15403N	MUELLER H10302 W/89980 PLUG	N/A HDPE CTS SDR 9
HDPE CTS SDR 9	MUELLER H15000N	FORD LAC4-665-NL	MUELLER H15154N	N/A	MUELLER H15403N	MUELLER H10302 W/89980 PLUG	MUELLER H10344 2"X3" TYPE K COPPER

NOTES:  
 1. CONTRACTOR IS ALLOWED TO USE A 45° BEND AT THE CORPORATION STOP (INCIDENTAL).  
 2. WHERE A LEAD OR GALVANIZED STEEL SERVICE LINE IS TO BE REPLACED, 1" MINIMUM PIPING SHALL BE USED.  
 3. WHERE THE EXISTING PRIVATE SERVICE LINE IS COPPER, THE CONNECTION SHALL BE MADE AT THE RIGHT OF WAY WITH APPROPRIATE SIZE COUPLINGS TO MATCH THE EXISTING LINE SIZE.  
 4. MUELLER CURB BOX H10304 WITH 89981 LID AND PLUG MAY BE USED WITH MUELLER H15154N CURB STOP (NO ADAPTER), UPON APPROVAL OF THE ENGINEER.

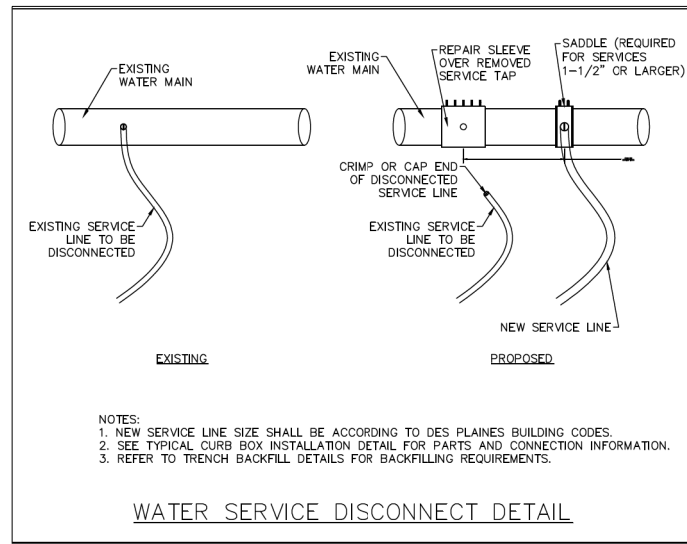
TYPICAL CURB BOX INSTALLATION RESIDENTIAL WATER SERVICE



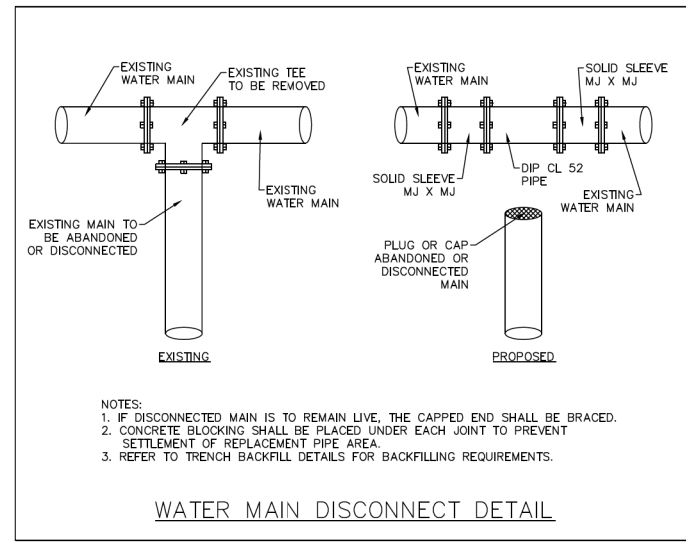
TYPICAL HYDRANT INSTALLATION



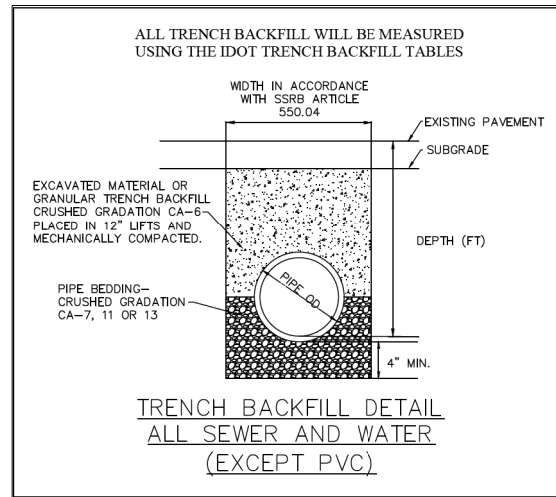
CARRIER PIPE & PIPE CASING BULKHEAD DETAIL



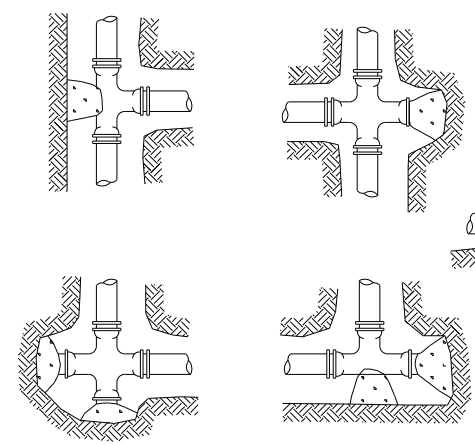
WATER SERVICE DISCONNECT DETAIL



WATER MAIN DISCONNECT DETAIL



TRENCH BACKFILL DETAIL ALL SEWER AND WATER (EXCEPT PVC)



THRUST BLOCKING DETAIL

NOTES:  
 1. THRUST BLOCKS SHALL BE AT ALL TEES AND BENDS OF 11-1/4° AND GREATER.  
 2. THRUST BLOCKS SHALL BE POURED AGAINST UNDISTURBED SOIL.  
 3. CONCRETE SHALL BE 3000 P.S.I. (MIN.)



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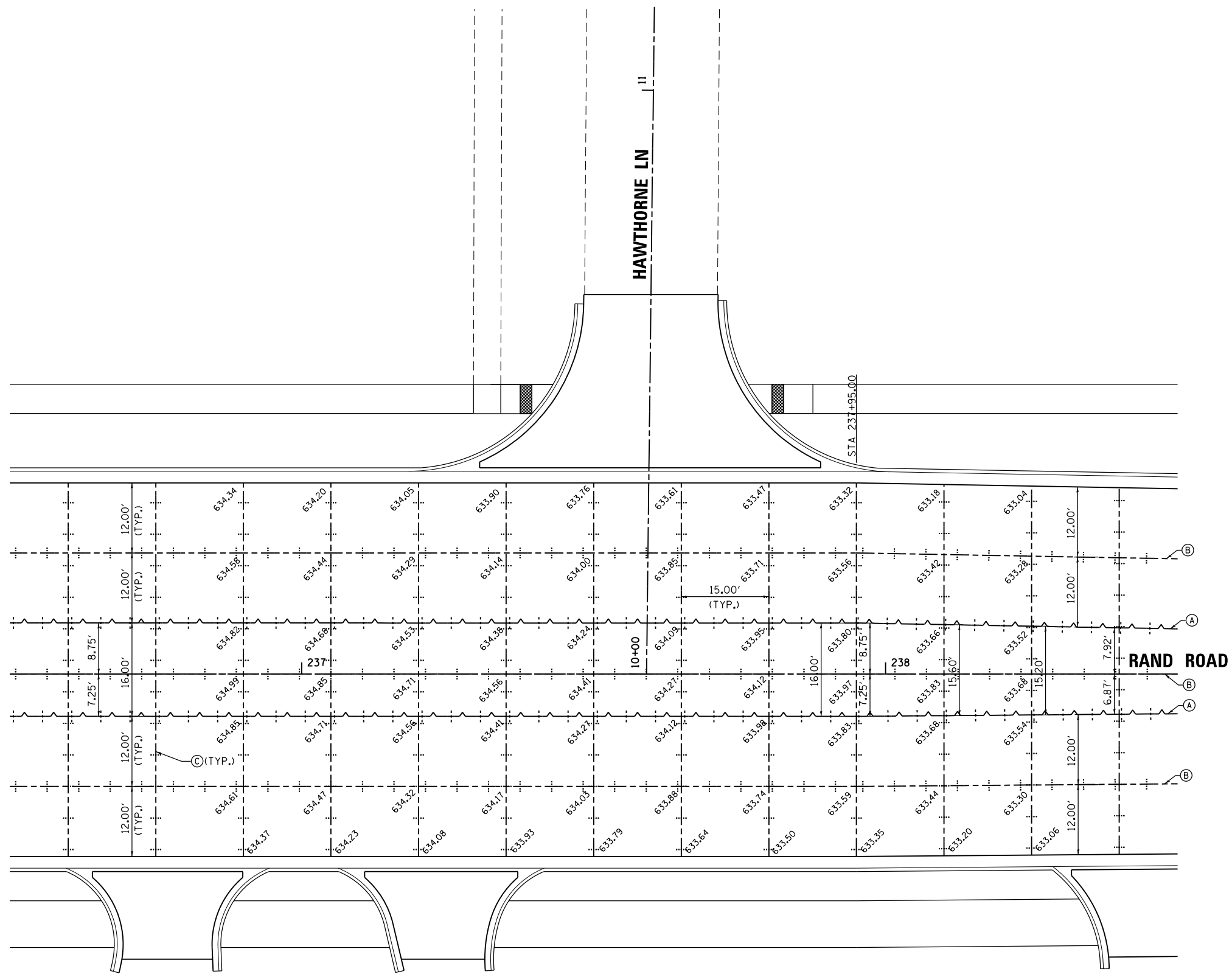
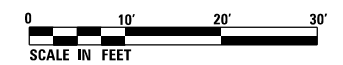
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	DATE - 06/23/2023	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

WATER MAIN PLANS  
CONSTRUCTION DETAILS

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

REVISD ENTIRE SHEET 5/28/2024				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3523	120-Y-B	COOK	267	80
CONTRACT NO. 60J10				
ILLINOIS FED. AID PROJECT				



1

LEGEND

- (A) LONGITUDINAL CONSTRUCTION JOINT WITH GROUTED-IN-PLACE DEFORMED EPOXY COATED No. 6x30 TIE BARS AT 36" CENTERS
- (B) LONGITUDINAL SAWED JOINT WITH DEFORMED EPOXY COATED No. 6x30 TIE BARS AT 36" CENTERS
- (C) TRANSVERSE CONTRACTION JOINT WITH 18" DOWEL BARS AT 12" CENTERS

1 REVISED ENTIRE SHEET 5/28/2024

FILE NAME = D:\6010-rt-internet\6010.dgn



USER NAME = F1n0w1cM	DESIGNED - MCK	REVISED -
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PLOT DATE = 5/1/2024	DATE - 01/10/2024	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

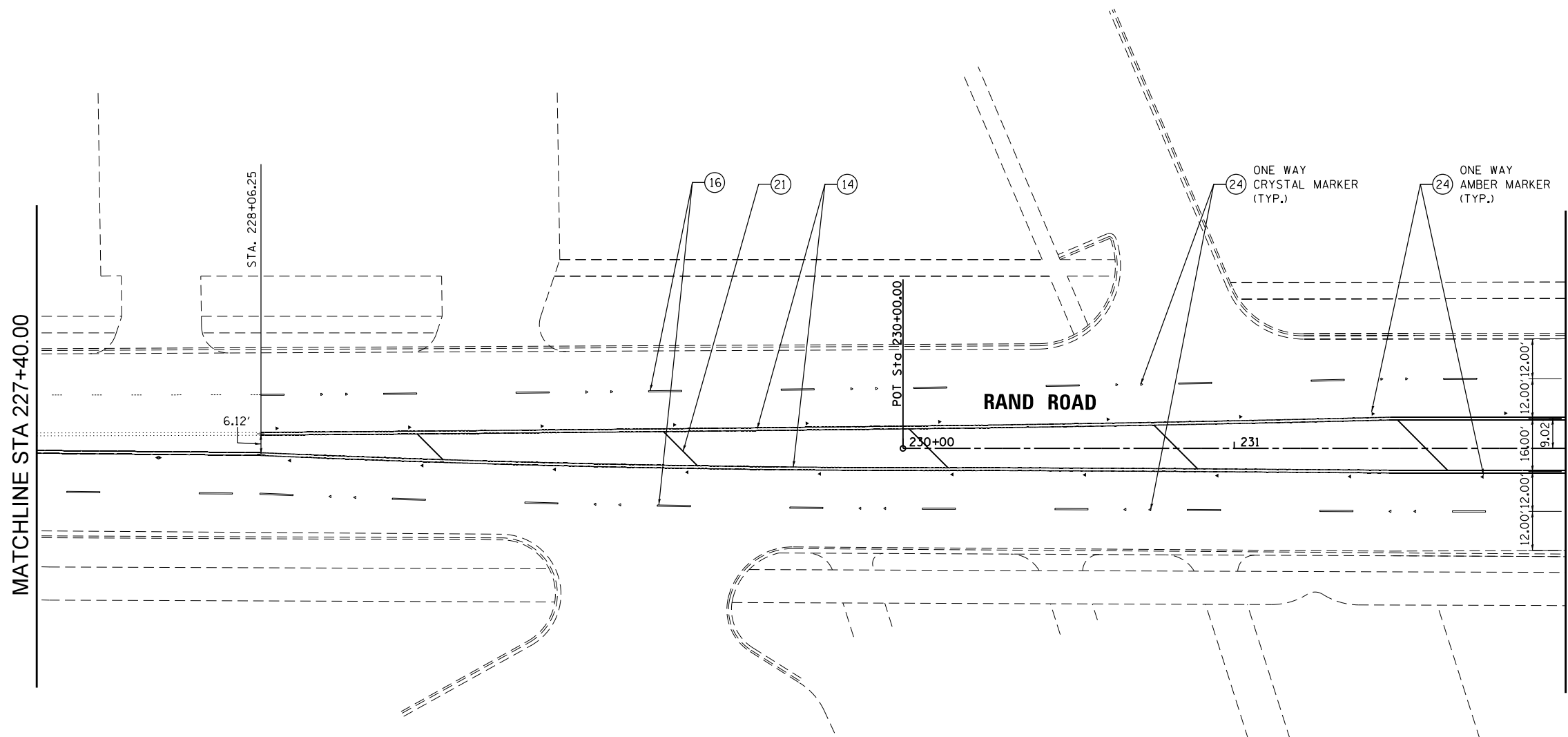
PAVEMENT JOINTING PLAN

SCALE: 1" = 10' SHEET 1 OF 4 SHEETS STA. 236+50.00 TO STA. 238+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3523	120-Y-B	COOK	267	90
CONTRACT NO. 60J10				
ILLINOIS FED. AID PROJECT				







- NOTES:
1. SEE DISTRICT ONE TYPICAL PAVEMENT MARKINGS FOR TURN LANE, CROSSWALK, AND ISLAND MARKING DETAILS.
  2. CONCRETE PAVEMENT BEGINS AT STA. 234+50.00 ON RAND ROAD. PAVEMENT MARKING MATERIAL CHANGES FROM THERMOPLASTIC TO MODIFIED URETHANE AT THIS JOINT.
  3. PAVEMENT MARKINGS SHOWN EXTENDING OUTSIDE OF THE PROJECT LIMITS ARE BEING REPLACED DUE TO THEIR REMOVAL FOR TRAFFIC MAINTENANCE DURING CONSTRUCTION. REPLACE PAVEMENT MARKINGS AFTER CONSTRUCTION USING THERMOPLASTIC MATERIAL.
  4. THERMOPLASTIC PAVEMENT MARKING REPLACEMENT BEGINS AT STA. 228+06.00 ON RAND ROAD AND MATCHES EXISTING PAVEMENT MARKINGS AT THIS POINT.

LEGEND	
①	MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS (WHITE)
②	MODIFIED URETHANE PAVEMENT MARKING - 4" DOUBLE YELLOW CENTERLINE @ 11" C-C
③	MODIFIED URETHANE PAVEMENT MARKING - 4" YELLOW TWO WAY LT TURN (10' DASH, 30' SKIP) @ 5.5" C-C
④	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 7" (10' DASH, 30' SKIP)
⑤	MODIFIED URETHANE PAVEMENT MARKING - 4" WHITE SOLID LINE
⑥	MODIFIED URETHANE PAVEMENT MARKING - 6" WHITE SOLID LINE
⑦	MODIFIED URETHANE PAVEMENT MARKING - 6" WHITE DOTTED LINE EXTENSION (2' DASH, 6' SKIP)
⑧	MODIFIED URETHANE PAVEMENT MARKING - 12" YELLOW DIAGONAL LINE @ 45° AND 75' C-C
⑨	MODIFIED URETHANE PAVEMENT MARKING - 12" WHITE CROSSWALK LINE
⑩	MODIFIED URETHANE PAVEMENT MARKING - 24" WHITE STOP BAR
⑪	PAINT PAVEMENT MARKING - LETTERS AND SYMBOLS (YELLOW)
⑫	PAINT PAVEMENT MARKING - 4" YELLOW SOLID LINE
⑬	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS (WHITE)
⑭	THERMOPLASTIC PAVEMENT MARKING - 4" DOUBLE YELLOW CENTERLINE @ 11" C-C
⑮	THERMOPLASTIC PAVEMENT MARKING - 4" WHITE SOLID LINE
⑯	THERMOPLASTIC PAVEMENT MARKING - 4" WHITE SKIP DASH LINE (10' DASH, 30' SKIP)
⑰	THERMOPLASTIC PAVEMENT MARKING - 4" YELLOW SOLID LINE
⑱	THERMOPLASTIC PAVEMENT MARKING - 6" WHITE SOLID LINE
⑲	THERMOPLASTIC PAVEMENT MARKING - 6" WHITE DOTTED LINE EXTENSION (2' DASH, 6' SKIP)
⑳	THERMOPLASTIC PAVEMENT MARKING - 8" WHITE SOLID LINE
㉑	THERMOPLASTIC PAVEMENT MARKING - 12" YELLOW DIAGONAL LINE @ 45° AND 75' C-C
㉒	THERMOPLASTIC PAVEMENT MARKING - 12" WHITE CROSSWALK LINE
㉓	THERMOPLASTIC PAVEMENT MARKING - 24" WHITE STOP BAR
㉔	RAISED REFLECTIVE PAVEMENT MARKER
㉕	RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)

1

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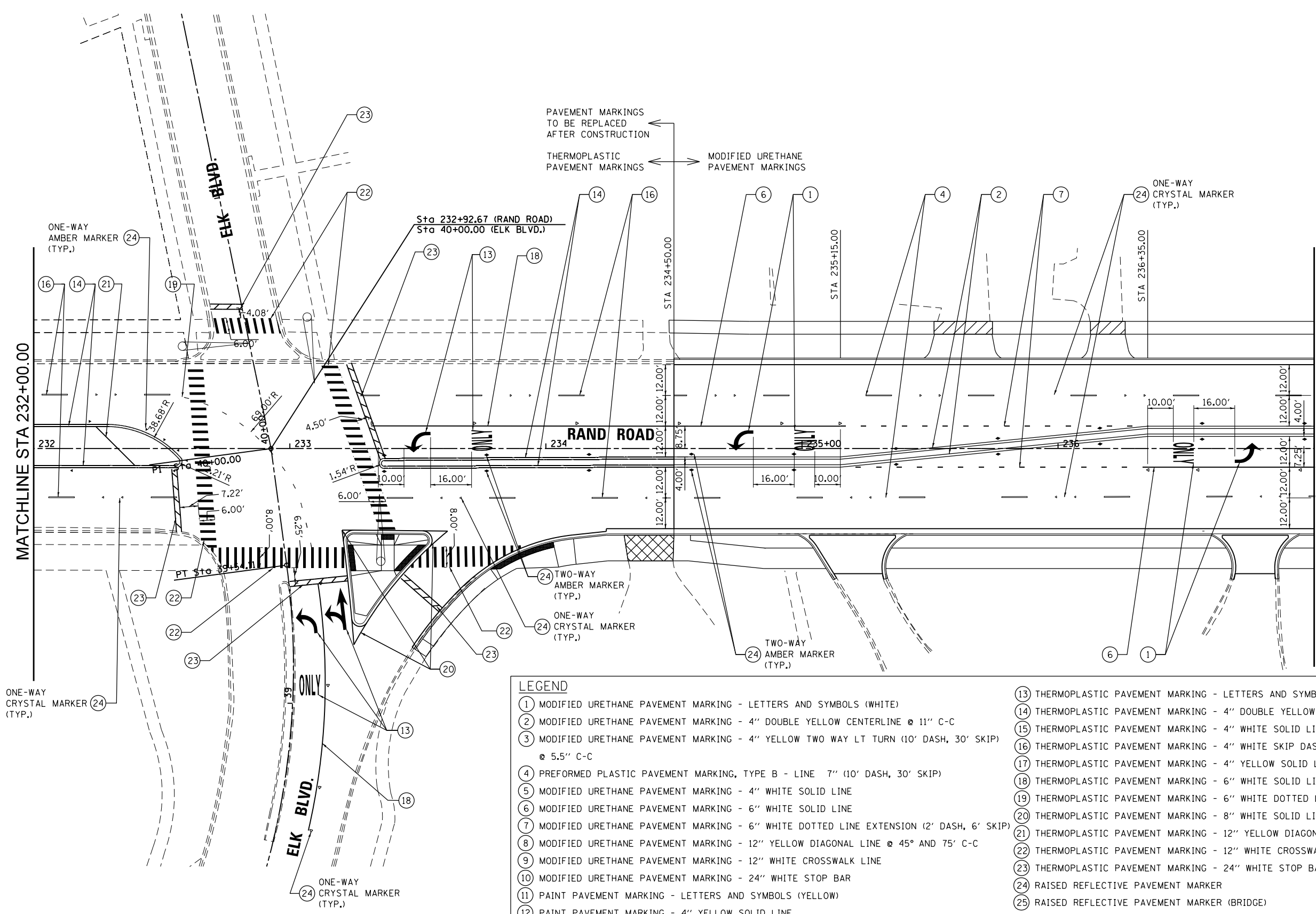
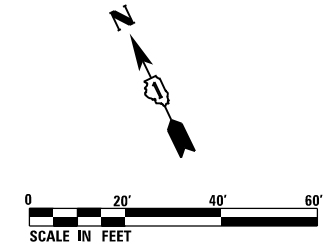
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING PLAN  
RAND ROAD**

SCALE: 1" = 20' SHEET 2 OF 9 SHEETS STA. 227+40.00 TO STA. 232+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3523	120-Y-B	COOK	267	95
CONTRACT NO. 60J10				
ILLINOIS FED. AID PROJECT				

1 REVISED ENTIRE SHEET 5/28/2024



- NOTES:
- SEE DISTRICT ONE TYPICAL PAVEMENT MARKINGS FOR TURN LANE, CROSSWALK, AND ISLAND MARKING DETAILS.
  - CONCRETE PAVEMENT BEGINS AT STA. 234+50.00 ON RAND ROAD. PAVEMENT MARKING MATERIAL CHANGES FROM THERMOPLASTIC TO MODIFIED URETHANE AT THIS JOINT.
  - PAVEMENT MARKINGS SHOWN EXTENDING OUTSIDE OF THE PROJECT LIMITS ARE BEING REPLACED DUE TO THEIR REMOVAL FOR TRAFFIC MAINTENANCE DURING CONSTRUCTION. REPLACE PAVEMENT MARKINGS AFTER CONSTRUCTION USING THERMOPLASTIC MATERIAL.

1 REVISED ENTIRE SHEET 5/28/2024

LEGEND	
1	MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS (WHITE)
2	MODIFIED URETHANE PAVEMENT MARKING - 4" DOUBLE YELLOW CENTERLINE @ 11" C-C
3	MODIFIED URETHANE PAVEMENT MARKING - 4" YELLOW TWO WAY LT TURN (10' DASH, 30' SKIP) @ 5.5" C-C
4	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 7" (10' DASH, 30' SKIP)
5	MODIFIED URETHANE PAVEMENT MARKING - 4" WHITE SOLID LINE
6	MODIFIED URETHANE PAVEMENT MARKING - 6" WHITE SOLID LINE
7	MODIFIED URETHANE PAVEMENT MARKING - 6" WHITE DOTTED LINE EXTENSION (2' DASH, 6' SKIP)
8	MODIFIED URETHANE PAVEMENT MARKING - 12" YELLOW DIAGONAL LINE @ 45° AND 75° C-C
9	MODIFIED URETHANE PAVEMENT MARKING - 12" WHITE CROSSWALK LINE
10	MODIFIED URETHANE PAVEMENT MARKING - 24" WHITE STOP BAR
11	PAINT PAVEMENT MARKING - LETTERS AND SYMBOLS (YELLOW)
12	PAINT PAVEMENT MARKING - 4" YELLOW SOLID LINE
13	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS (WHITE)
14	THERMOPLASTIC PAVEMENT MARKING - 4" DOUBLE YELLOW CENTERLINE @ 11" C-C
15	THERMOPLASTIC PAVEMENT MARKING - 4" WHITE SOLID LINE
16	THERMOPLASTIC PAVEMENT MARKING - 4" WHITE SKIP DASH LINE (10' DASH, 30' SKIP)
17	THERMOPLASTIC PAVEMENT MARKING - 4" YELLOW SOLID LINE
18	THERMOPLASTIC PAVEMENT MARKING - 6" WHITE SOLID LINE
19	THERMOPLASTIC PAVEMENT MARKING - 6" WHITE DOTTED LINE EXTENSION (2' DASH, 6' SKIP)
20	THERMOPLASTIC PAVEMENT MARKING - 8" WHITE SOLID LINE
21	THERMOPLASTIC PAVEMENT MARKING - 12" YELLOW DIAGONAL LINE @ 45° AND 75° C-C
22	THERMOPLASTIC PAVEMENT MARKING - 12" WHITE CROSSWALK LINE
23	THERMOPLASTIC PAVEMENT MARKING - 24" WHITE STOP BAR
24	RAISED REFLECTIVE PAVEMENT MARKER
25	RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)

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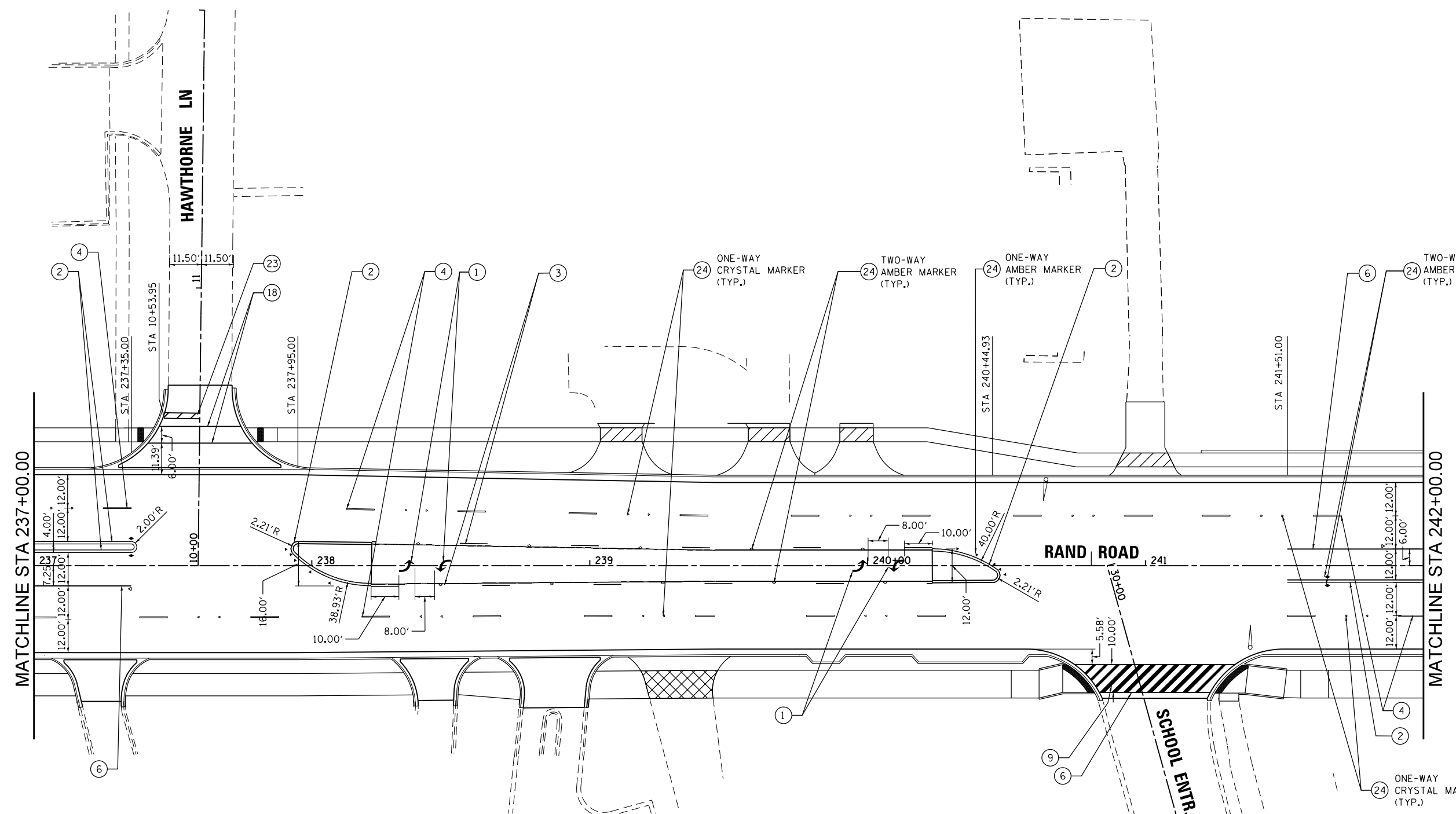
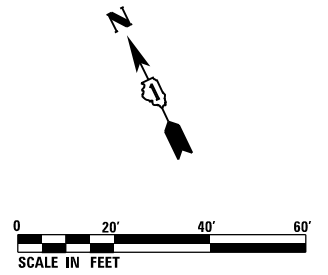
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING PLAN  
RAND ROAD**

SCALE: 1" = 20'    SHEET 3 OF 9 SHEETS    STA. 232+00.00 TO STA. 237+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3523	120-Y-B	COOK	267	96
CONTRACT NO. 60J10				
ILLINOIS FED. AID PROJECT				



NOTES:  
 1. SEE DISTRICT ONE TYPICAL PAVEMENT MARKINGS FOR TURN LANE, CROSSWALK, AND ISLAND MARKING DETAILS.

LEGEND	
1	MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS (WHITE)
2	MODIFIED URETHANE PAVEMENT MARKING - 4" DOUBLE YELLOW CENTERLINE @ 11" C-C
3	MODIFIED URETHANE PAVEMENT MARKING - 4" YELLOW TWO WAY LT TURN (10' DASH, 30' SKIP) @ 5.5" C-C
4	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 7" (10' DASH, 30' SKIP)
5	MODIFIED URETHANE PAVEMENT MARKING - 4" WHITE SOLID LINE
6	MODIFIED URETHANE PAVEMENT MARKING - 6" WHITE SOLID LINE
7	MODIFIED URETHANE PAVEMENT MARKING - 6" WHITE DOTTED LINE EXTENSION (2' DASH, 6' SKIP)
8	MODIFIED URETHANE PAVEMENT MARKING - 12" YELLOW DIAGONAL LINE @ 45° AND 75' C-C
9	MODIFIED URETHANE PAVEMENT MARKING - 12" WHITE CROSSWALK LINE
10	MODIFIED URETHANE PAVEMENT MARKING - 24" WHITE STOP BAR
11	PAINT PAVEMENT MARKING - LETTERS AND SYMBOLS (YELLOW)
12	PAINT PAVEMENT MARKING - 4" YELLOW SOLID LINE
13	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS (WHITE)
14	THERMOPLASTIC PAVEMENT MARKING - 4" DOUBLE YELLOW CENTERLINE @ 11" C-C
15	THERMOPLASTIC PAVEMENT MARKING - 4" WHITE SOLID LINE
16	THERMOPLASTIC PAVEMENT MARKING - 4" WHITE SKIP DASH LINE (10' DASH, 30' SKIP)
17	THERMOPLASTIC PAVEMENT MARKING - 4" YELLOW SOLID LINE
18	THERMOPLASTIC PAVEMENT MARKING - 6" WHITE SOLID LINE
19	THERMOPLASTIC PAVEMENT MARKING - 6" WHITE DOTTED LINE EXTENSION (2' DASH, 6' SKIP)
20	THERMOPLASTIC PAVEMENT MARKING - 8" WHITE SOLID LINE
21	THERMOPLASTIC PAVEMENT MARKING - 12" YELLOW DIAGONAL LINE @ 45° AND 75' C-C
22	THERMOPLASTIC PAVEMENT MARKING - 12" WHITE CROSSWALK LINE
23	THERMOPLASTIC PAVEMENT MARKING - 24" WHITE STOP BAR
24	RAISED REFLECTIVE PAVEMENT MARKER
25	RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)

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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING PLAN  
 RAND ROAD**

SCALE: 1" = 20'    SHEET 4 OF 9 SHEETS    STA. 237+00.00 TO STA. 242+00.00

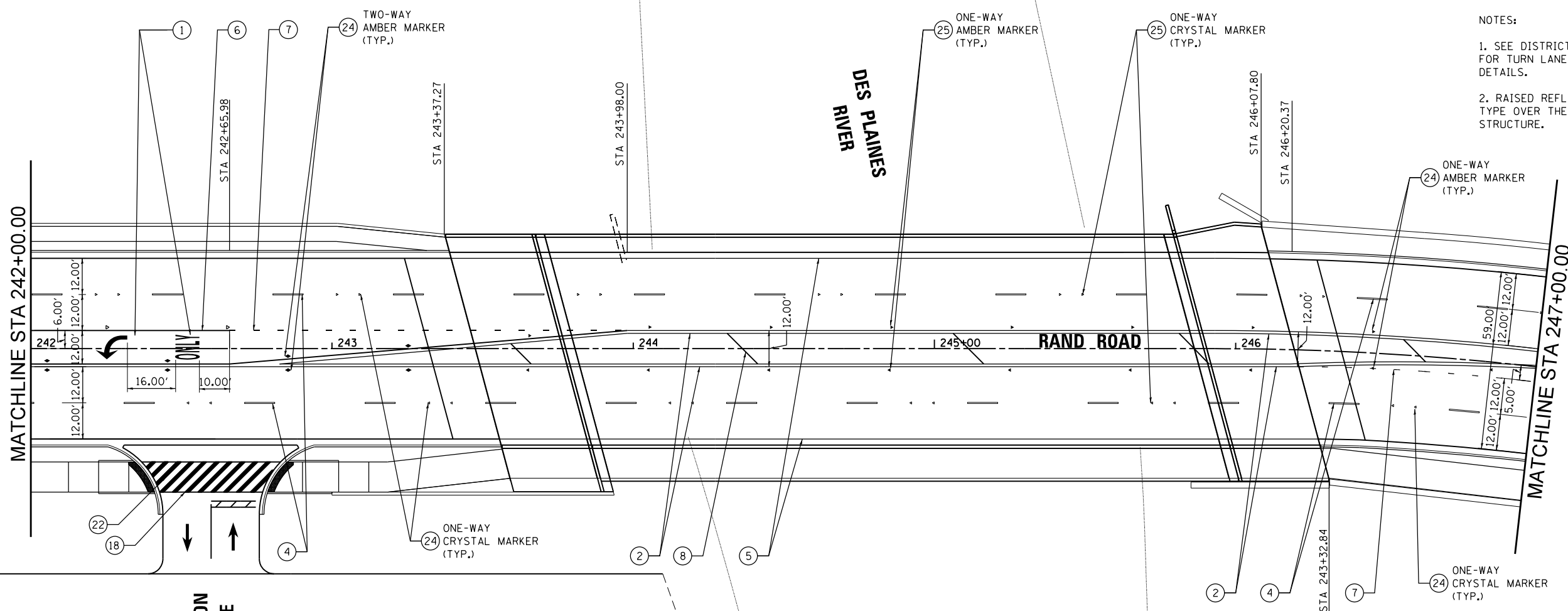
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3523	120-Y-B	COOK	267	97
CONTRACT NO. 60J10				
ILLINOIS FED. AID PROJECT				

▲ REVISED ENTIRE SHEET 5/28/2024



NOTES:

- SEE DISTRICT ONE TYPICAL PAVEMENT MARKINGS FOR TURN LANE, CROSSWALK, AND ISLAND MARKING DETAILS.
- RAISED REFLECTIVE PAVEMENT MARKERS CHANGE TYPE OVER THE LENGTH OF THE PROPOSED BRIDGE STRUCTURE.



1 REVISED ENTIRE SHEET 5/28/2024

LEGEND	
1	MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS (WHITE)
2	MODIFIED URETHANE PAVEMENT MARKING - 4" DOUBLE YELLOW CENTERLINE @ 11" C-C
3	MODIFIED URETHANE PAVEMENT MARKING - 4" YELLOW TWO WAY LT TURN (10' DASH, 30' SKIP) @ 5.5" C-C
4	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 7" (10' DASH, 30' SKIP)
5	MODIFIED URETHANE PAVEMENT MARKING - 4" WHITE SOLID LINE
6	MODIFIED URETHANE PAVEMENT MARKING - 6" WHITE SOLID LINE
7	MODIFIED URETHANE PAVEMENT MARKING - 6" WHITE DOTTED LINE EXTENSION (2' DASH, 6' SKIP)
8	MODIFIED URETHANE PAVEMENT MARKING - 12" YELLOW DIAGONAL LINE @ 45° AND 75' C-C
9	MODIFIED URETHANE PAVEMENT MARKING - 12" WHITE CROSSWALK LINE
10	MODIFIED URETHANE PAVEMENT MARKING - 24" WHITE STOP BAR
11	PAINT PAVEMENT MARKING - LETTERS AND SYMBOLS (YELLOW)
12	PAINT PAVEMENT MARKING - 4" YELLOW SOLID LINE
13	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS (WHITE)
14	THERMOPLASTIC PAVEMENT MARKING - 4" DOUBLE YELLOW CENTERLINE @ 11" C-C
15	THERMOPLASTIC PAVEMENT MARKING - 4" WHITE SOLID LINE
16	THERMOPLASTIC PAVEMENT MARKING - 4" WHITE SKIP DASH LINE (10' DASH, 30' SKIP)
17	THERMOPLASTIC PAVEMENT MARKING - 4" YELLOW SOLID LINE
18	THERMOPLASTIC PAVEMENT MARKING - 6" WHITE SOLID LINE
19	THERMOPLASTIC PAVEMENT MARKING - 6" WHITE DOTTED LINE EXTENSION (2' DASH, 6' SKIP)
20	THERMOPLASTIC PAVEMENT MARKING - 8" WHITE SOLID LINE
21	THERMOPLASTIC PAVEMENT MARKING - 12" YELLOW DIAGONAL LINE @ 45° AND 75' C-C
22	THERMOPLASTIC PAVEMENT MARKING - 12" WHITE CROSSWALK LINE
23	THERMOPLASTIC PAVEMENT MARKING - 24" WHITE STOP BAR
24	RAISED REFLECTIVE PAVEMENT MARKER
25	RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)

FILE NAME = D:\60\00-rt-panc204.dgn



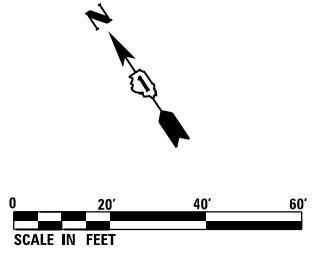
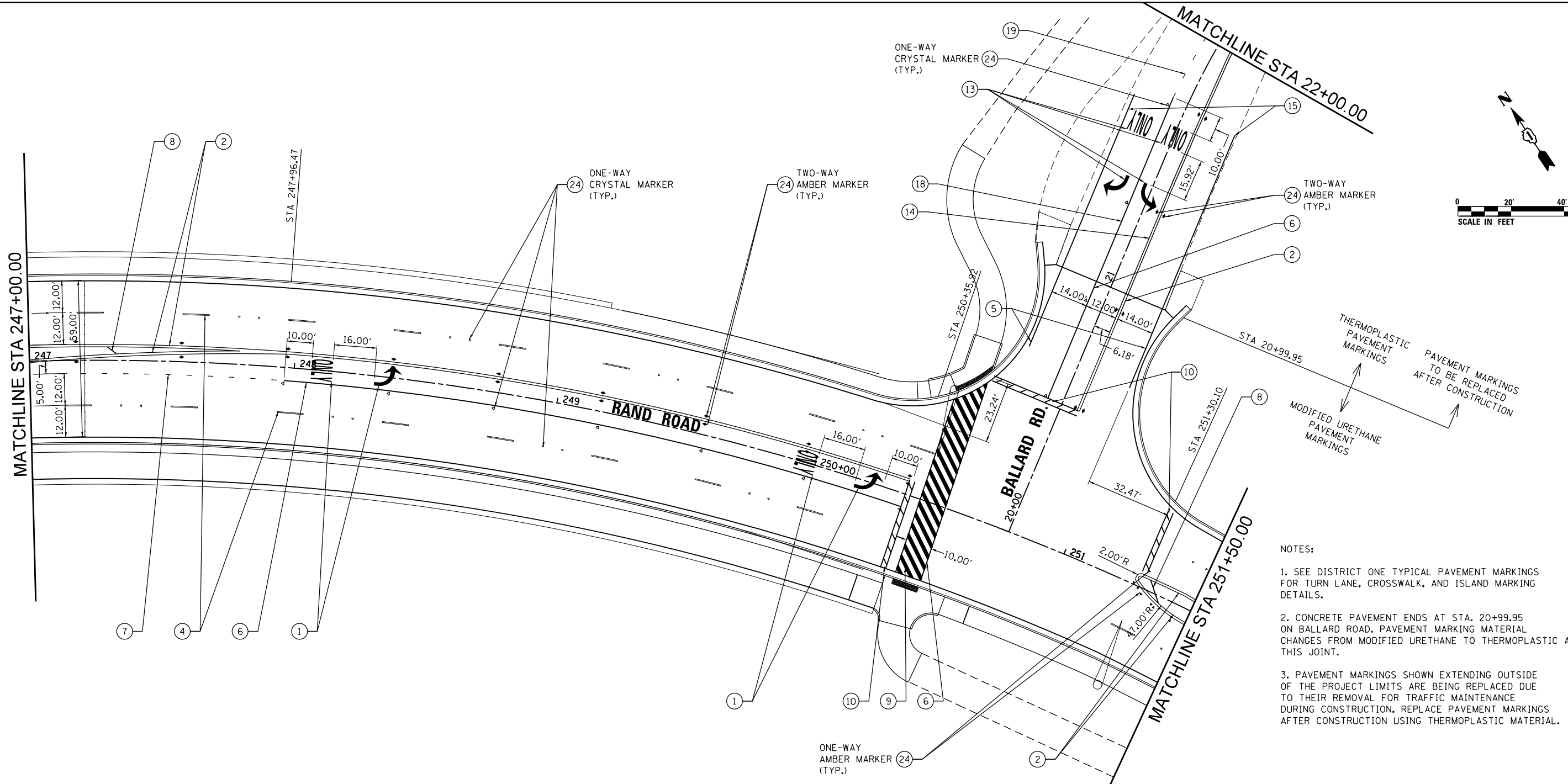
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PLOT DATE = 5/2/2024	DATE - 01/10/2024	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING PLAN  
RAND ROAD

SCALE: 1" = 20' SHEET 5 OF 9 SHEETS STA. 242+00.00 TO STA. 247+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3523	120-Y-B	COOK	267	98
CONTRACT NO. 60J10				
ILLINOIS FED. AID PROJECT				



- NOTES:
- SEE DISTRICT ONE TYPICAL PAVEMENT MARKINGS FOR TURN LANE, CROSSWALK, AND ISLAND MARKING DETAILS.
  - CONCRETE PAVEMENT ENDS AT STA. 20+99.95 ON BALLARD ROAD. PAVEMENT MARKING MATERIAL CHANGES FROM MODIFIED URETHANE TO THERMOPLASTIC AT THIS JOINT.
  - PAVEMENT MARKINGS SHOWN EXTENDING OUTSIDE OF THE PROJECT LIMITS ARE BEING REPLACED DUE TO THEIR REMOVAL FOR TRAFFIC MAINTENANCE DURING CONSTRUCTION. REPLACE PAVEMENT MARKINGS AFTER CONSTRUCTION USING THERMOPLASTIC MATERIAL.

LEGEND	
①	MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS (WHITE)
②	MODIFIED URETHANE PAVEMENT MARKING - 4" DOUBLE YELLOW CENTERLINE @ 11" C-C
③	MODIFIED URETHANE PAVEMENT MARKING - 4" YELLOW TWO WAY LT TURN (10' DASH, 30' SKIP) @ 5.5" C-C
④	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 7" (10' DASH, 30' SKIP)
⑤	MODIFIED URETHANE PAVEMENT MARKING - 4" WHITE SOLID LINE
⑥	MODIFIED URETHANE PAVEMENT MARKING - 6" WHITE SOLID LINE
⑦	MODIFIED URETHANE PAVEMENT MARKING - 6" WHITE DOTTED LINE EXTENSION (2' DASH, 6' SKIP)
⑧	MODIFIED URETHANE PAVEMENT MARKING - 12" YELLOW DIAGONAL LINE @ 45° AND 75° C-C
⑨	MODIFIED URETHANE PAVEMENT MARKING - 12" WHITE CROSSWALK LINE
⑩	MODIFIED URETHANE PAVEMENT MARKING - 24" WHITE STOP BAR
⑪	PAINT PAVEMENT MARKING - LETTERS AND SYMBOLS (YELLOW)
⑫	PAINT PAVEMENT MARKING - 4" YELLOW SOLID LINE
⑬	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS (WHITE)
⑭	THERMOPLASTIC PAVEMENT MARKING - 4" DOUBLE YELLOW CENTERLINE @ 11" C-C
⑮	THERMOPLASTIC PAVEMENT MARKING - 4" WHITE SOLID LINE
⑯	THERMOPLASTIC PAVEMENT MARKING - 4" WHITE SKIP DASH LINE (10' DASH, 30' SKIP)
⑰	THERMOPLASTIC PAVEMENT MARKING - 4" YELLOW SOLID LINE
⑱	THERMOPLASTIC PAVEMENT MARKING - 6" WHITE SOLID LINE
⑲	THERMOPLASTIC PAVEMENT MARKING - 6" WHITE DOTTED LINE EXTENSION (2' DASH, 6' SKIP)
⑲	THERMOPLASTIC PAVEMENT MARKING - 8" WHITE SOLID LINE
⑲	THERMOPLASTIC PAVEMENT MARKING - 12" YELLOW DIAGONAL LINE @ 45° AND 75° C-C
⑲	THERMOPLASTIC PAVEMENT MARKING - 12" WHITE CROSSWALK LINE
⑲	THERMOPLASTIC PAVEMENT MARKING - 24" WHITE STOP BAR
⑲	RAISED REFLECTIVE PAVEMENT MARKER
⑲	RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)

①

FILE NAME = D:\6010-rt-pmkz205.dgn



USER NAME = F10w1cM	DESIGNED - MCK	REVISED -
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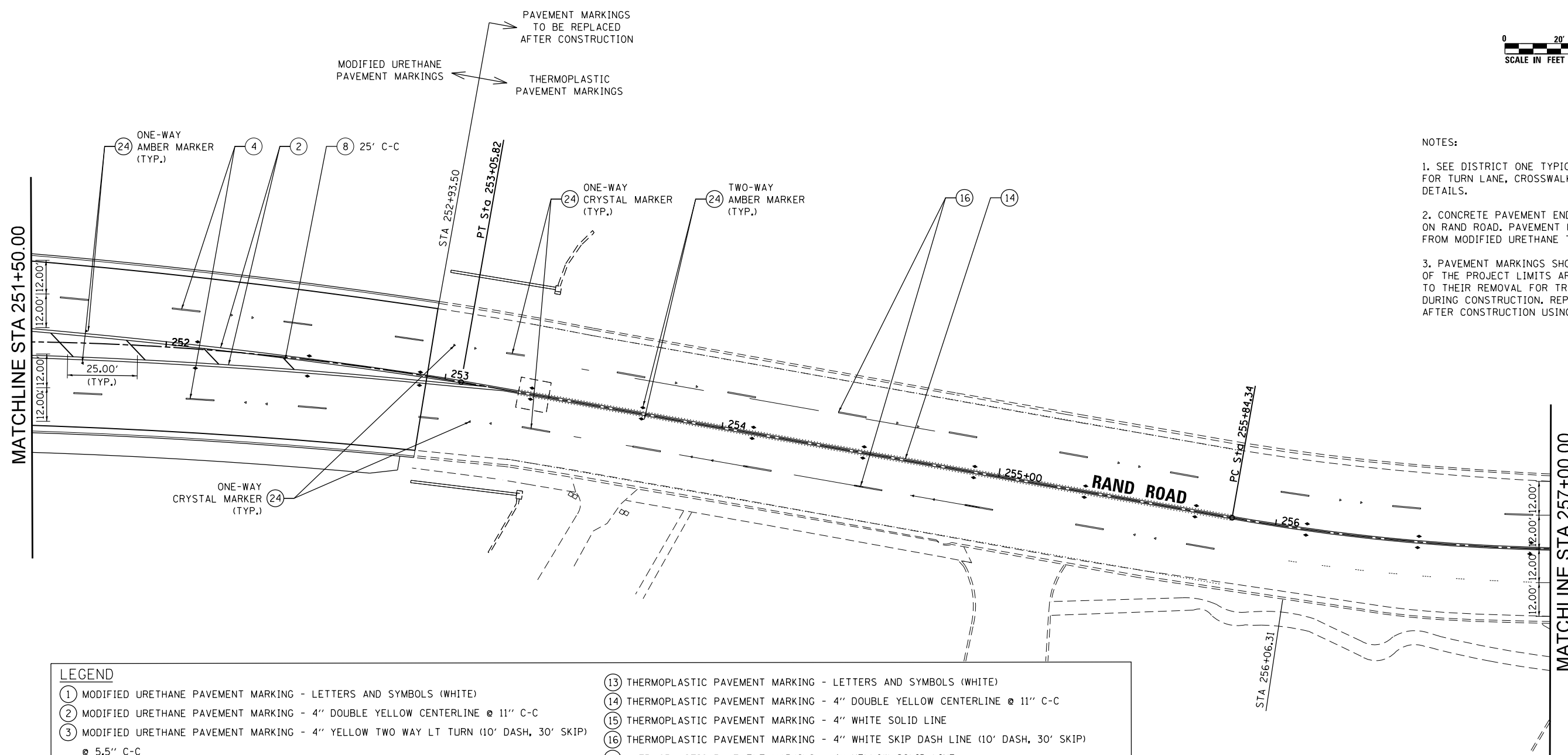
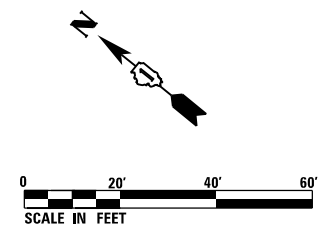
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING PLAN  
RAND ROAD

SCALE: 1" = 20' SHEET 6 OF 9 SHEETS STA. 247+00.00 TO STA. 251+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3523	120-Y-B	COOK	267	99
CONTRACT NO. 60J10				
ILLINOIS FED. AID PROJECT				

① REVISED ENTIRE SHEET 5/28/2024



- NOTES:
1. SEE DISTRICT ONE TYPICAL PAVEMENT MARKINGS FOR TURN LANE, CROSSWALK, AND ISLAND MARKING DETAILS.
  2. CONCRETE PAVEMENT ENDS AT STA. 252+93.50 ON RAND ROAD. PAVEMENT MARKING MATERIAL CHANGES FROM MODIFIED URETHANE TO THERMOPLASTIC AT THIS JOINT.
  3. PAVEMENT MARKINGS SHOWN EXTENDING OUTSIDE OF THE PROJECT LIMITS ARE BEING REPLACED DUE TO THEIR REMOVAL FOR TRAFFIC MAINTENANCE DURING CONSTRUCTION. REPLACE PAVEMENT MARKINGS AFTER CONSTRUCTION USING THERMOPLASTIC MATERIAL.

LEGEND	
①	MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS (WHITE)
②	MODIFIED URETHANE PAVEMENT MARKING - 4" DOUBLE YELLOW CENTERLINE @ 11" C-C
③	MODIFIED URETHANE PAVEMENT MARKING - 4" YELLOW TWO WAY LT TURN (10' DASH, 30' SKIP) @ 5.5" C-C
④	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 7" (10' DASH, 30' SKIP)
⑤	MODIFIED URETHANE PAVEMENT MARKING - 4" WHITE SOLID LINE
⑥	MODIFIED URETHANE PAVEMENT MARKING - 6" WHITE SOLID LINE
⑦	MODIFIED URETHANE PAVEMENT MARKING - 6" WHITE DOTTED LINE EXTENSION (2' DASH, 6' SKIP)
⑧	MODIFIED URETHANE PAVEMENT MARKING - 12" YELLOW DIAGONAL LINE @ 45° AND 75° C-C
⑨	MODIFIED URETHANE PAVEMENT MARKING - 12" WHITE CROSSWALK LINE
⑩	MODIFIED URETHANE PAVEMENT MARKING - 24" WHITE STOP BAR
⑪	PAINT PAVEMENT MARKING - LETTERS AND SYMBOLS (YELLOW)
⑫	PAINT PAVEMENT MARKING - 4" YELLOW SOLID LINE
⑬	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS (WHITE)
⑭	THERMOPLASTIC PAVEMENT MARKING - 4" DOUBLE YELLOW CENTERLINE @ 11" C-C
⑮	THERMOPLASTIC PAVEMENT MARKING - 4" WHITE SOLID LINE
⑯	THERMOPLASTIC PAVEMENT MARKING - 4" WHITE SKIP DASH LINE (10' DASH, 30' SKIP)
⑰	THERMOPLASTIC PAVEMENT MARKING - 4" YELLOW SOLID LINE
⑱	THERMOPLASTIC PAVEMENT MARKING - 6" WHITE SOLID LINE
⑲	THERMOPLASTIC PAVEMENT MARKING - 6" WHITE DOTTED LINE EXTENSION (2' DASH, 6' SKIP)
⑳	THERMOPLASTIC PAVEMENT MARKING - 8" WHITE SOLID LINE
㉑	THERMOPLASTIC PAVEMENT MARKING - 12" YELLOW DIAGONAL LINE @ 45° AND 75° C-C
㉒	THERMOPLASTIC PAVEMENT MARKING - 12" WHITE CROSSWALK LINE
㉓	THERMOPLASTIC PAVEMENT MARKING - 24" WHITE STOP BAR
㉔	RAISED REFLECTIVE PAVEMENT MARKER
㉕	RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)

①

FILE NAME = D:\6010-rt-pmk-206.dgn



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PLOT DATE = 5/2/2024	DATE - 01/10/2024	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING PLAN  
RAND ROAD**

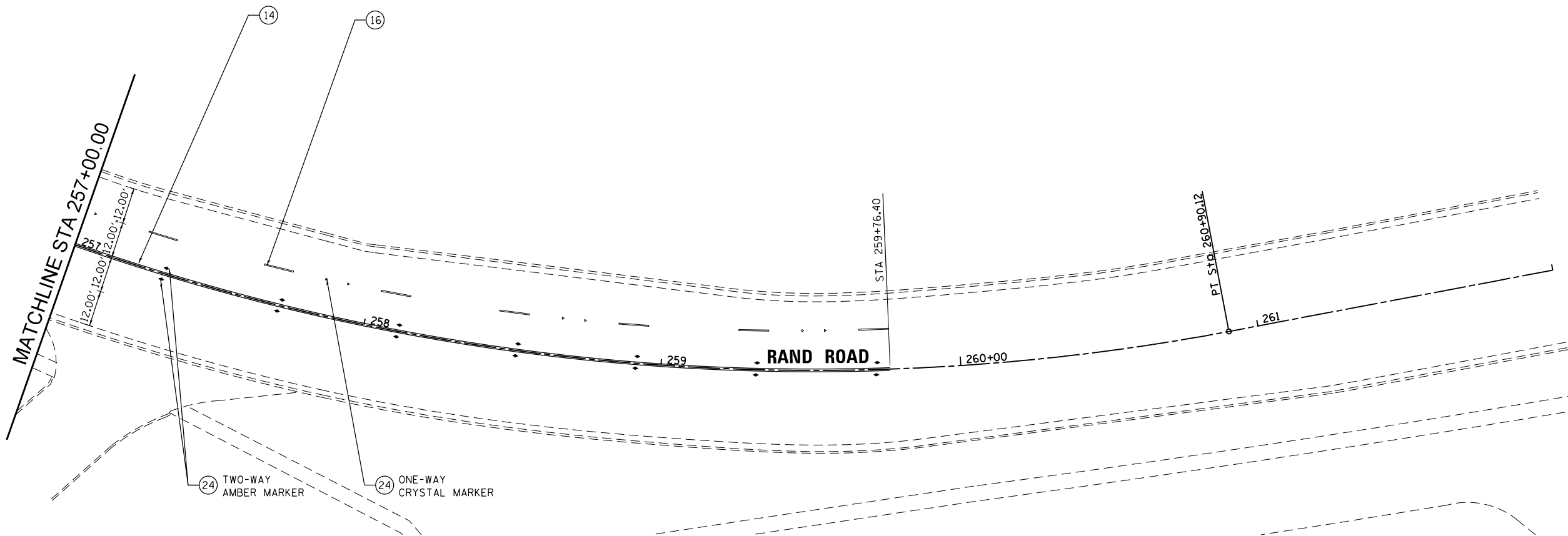
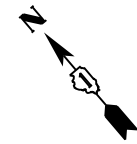
SCALE: 1" = 20' SHEET 7 OF 9 SHEETS STA. 251+50.00 TO STA. 257+00.00

① REVISED ENTIRE SHEET 5/28/2024				
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3523	120-Y-B	COOK	267	100
CONTRACT NO. 60J10				
ILLINOIS FED. AID PROJECT				



NOTES:

1. SEE DISTRICT ONE TYPICAL PAVEMENT MARKINGS FOR TURN LANE, CROSSWALK, AND ISLAND MARKING DETAILS.
2. PAVEMENT MARKINGS SHOWN EXTENDING OUTSIDE OF THE PROJECT LIMITS ARE BEING REPLACED DUE TO THEIR REMOVAL FOR TRAFFIC MAINTENANCE DURING CONSTRUCTION. REPLACE PAVEMENT MARKINGS AFTER CONSTRUCTION USING THERMOPLASTIC MATERIAL.
3. THERMOPLASTIC PAVEMENT MARKING REPLACEMENT ENDS AT STA. 259+76.40 ON RAND ROAD AND MATCHES EXISTING PAVEMENT MARKINGS AT THIS POINT.



LEGEND	
①	MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS (WHITE)
②	MODIFIED URETHANE PAVEMENT MARKING - 4" DOUBLE YELLOW CENTERLINE @ 11" C-C
③	MODIFIED URETHANE PAVEMENT MARKING - 4" YELLOW TWO WAY LT TURN (10' DASH, 30' SKIP) @ 5.5" C-C
④	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 7" (10' DASH, 30' SKIP)
⑤	MODIFIED URETHANE PAVEMENT MARKING - 4" WHITE SOLID LINE
⑥	MODIFIED URETHANE PAVEMENT MARKING - 6" WHITE SOLID LINE
⑦	MODIFIED URETHANE PAVEMENT MARKING - 6" WHITE DOTTED LINE EXTENSION (2' DASH, 6' SKIP)
⑧	MODIFIED URETHANE PAVEMENT MARKING - 12" YELLOW DIAGONAL LINE @ 45° AND 75° C-C
⑨	MODIFIED URETHANE PAVEMENT MARKING - 12" WHITE CROSSWALK LINE
⑩	MODIFIED URETHANE PAVEMENT MARKING - 24" WHITE STOP BAR
⑪	PAINT PAVEMENT MARKING - LETTERS AND SYMBOLS (YELLOW)
⑫	PAINT PAVEMENT MARKING - 4" YELLOW SOLID LINE
⑬	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS (WHITE)
⑭	THERMOPLASTIC PAVEMENT MARKING - 4" DOUBLE YELLOW CENTERLINE @ 11" C-C
⑮	THERMOPLASTIC PAVEMENT MARKING - 4" WHITE SOLID LINE
⑯	THERMOPLASTIC PAVEMENT MARKING - 4" WHITE SKIP DASH LINE (10' DASH, 30' SKIP) @ 5.5" C-C
⑰	THERMOPLASTIC PAVEMENT MARKING - 4" YELLOW SOLID LINE
⑱	THERMOPLASTIC PAVEMENT MARKING - 6" WHITE SOLID LINE
⑲	THERMOPLASTIC PAVEMENT MARKING - 6" WHITE DOTTED LINE EXTENSION (2' DASH, 6' SKIP)
⑳	THERMOPLASTIC PAVEMENT MARKING - 8" WHITE SOLID LINE
㉑	THERMOPLASTIC PAVEMENT MARKING - 12" YELLOW DIAGONAL LINE @ 45° AND 75° C-C
㉒	THERMOPLASTIC PAVEMENT MARKING - 12" WHITE CROSSWALK LINE
㉓	THERMOPLASTIC PAVEMENT MARKING - 24" WHITE STOP BAR
㉔	RAISED REFLECTIVE PAVEMENT MARKER
㉕	RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)

① REVISED ENTIRE SHEET 5/28/2024

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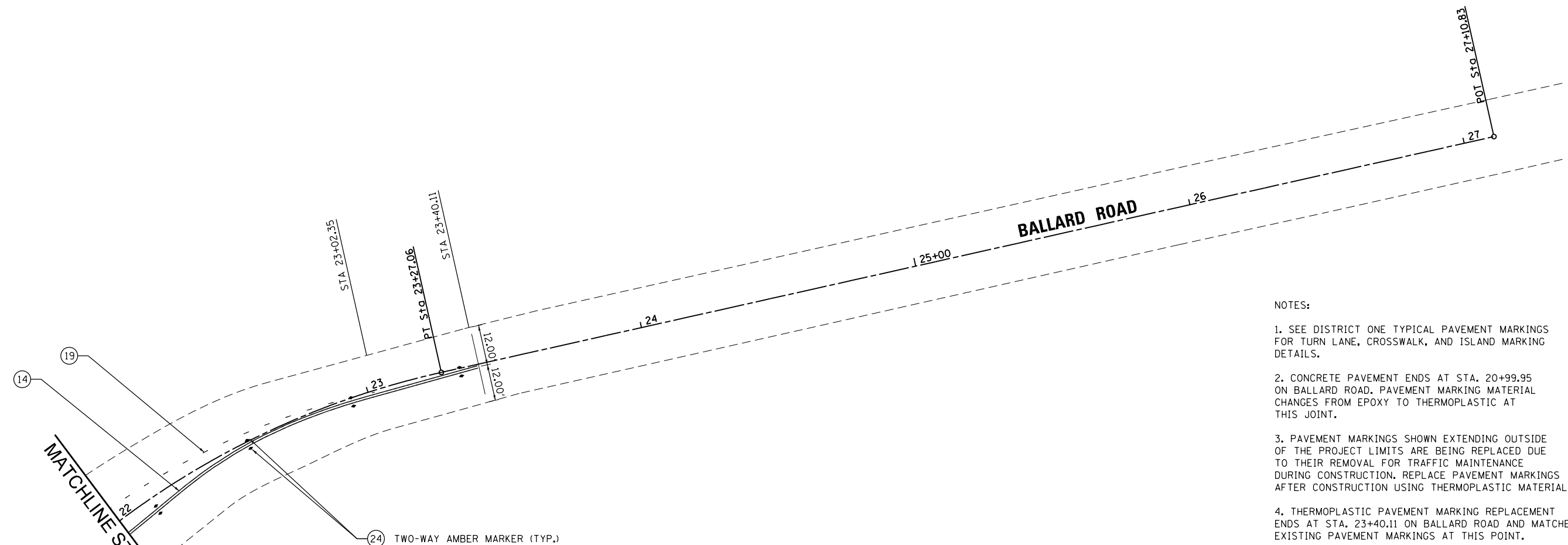
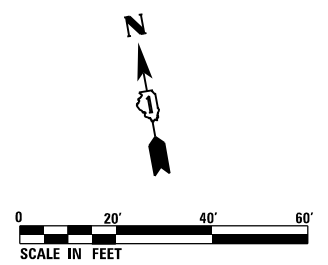
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PLOT DATE = 5/2/2024	DATE - 01/10/2024	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING PLAN  
RAND ROAD

SCALE: 1" = 20' SHEET 8 OF 9 SHEETS STA. 257+00.00 TO STA. 262+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3523	120-Y-B	COOK	267	101
CONTRACT NO. 60J10				
ILLINOIS FED. AID PROJECT				



- NOTES:
1. SEE DISTRICT ONE TYPICAL PAVEMENT MARKINGS FOR TURN LANE, CROSSWALK, AND ISLAND MARKING DETAILS.
  2. CONCRETE PAVEMENT ENDS AT STA. 20+99.95 ON BALLARD ROAD. PAVEMENT MARKING MATERIAL CHANGES FROM EPOXY TO THERMOPLASTIC AT THIS JOINT.
  3. PAVEMENT MARKINGS SHOWN EXTENDING OUTSIDE OF THE PROJECT LIMITS ARE BEING REPLACED DUE TO THEIR REMOVAL FOR TRAFFIC MAINTENANCE DURING CONSTRUCTION. REPLACE PAVEMENT MARKINGS AFTER CONSTRUCTION USING THERMOPLASTIC MATERIAL.
  4. THERMOPLASTIC PAVEMENT MARKING REPLACEMENT ENDS AT STA. 23+40.11 ON BALLARD ROAD AND MATCHES EXISTING PAVEMENT MARKINGS AT THIS POINT.

LEGEND	
①	MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS (WHITE)
②	MODIFIED URETHANE PAVEMENT MARKING - 4" DOUBLE YELLOW CENTERLINE @ 11" C-C
③	MODIFIED URETHANE PAVEMENT MARKING - 4" YELLOW TWO WAY LT TURN (10' DASH, 30' SKIP) @ 5.5" C-C
④	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 7" (10' DASH, 30' SKIP)
⑤	MODIFIED URETHANE PAVEMENT MARKING - 4" WHITE SOLID LINE
⑥	MODIFIED URETHANE PAVEMENT MARKING - 6" WHITE SOLID LINE
⑦	MODIFIED URETHANE PAVEMENT MARKING - 6" WHITE DOTTED LINE EXTENSION (2' DASH, 6' SKIP)
⑧	MODIFIED URETHANE PAVEMENT MARKING - 12" YELLOW DIAGONAL LINE @ 45° AND 75° C-C
⑨	MODIFIED URETHANE PAVEMENT MARKING - 12" WHITE CROSSWALK LINE
⑩	MODIFIED URETHANE PAVEMENT MARKING - 24" WHITE STOP BAR
⑪	PAINT PAVEMENT MARKING - LETTERS AND SYMBOLS (YELLOW)
⑫	PAINT PAVEMENT MARKING - 4" YELLOW SOLID LINE
⑬	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS (WHITE)
⑭	THERMOPLASTIC PAVEMENT MARKING - 4" DOUBLE YELLOW CENTERLINE @ 11" C-C
⑮	THERMOPLASTIC PAVEMENT MARKING - 4" WHITE SOLID LINE
⑯	THERMOPLASTIC PAVEMENT MARKING - 4" WHITE SKIP DASH LINE (10' DASH, 30' SKIP)
⑰	THERMOPLASTIC PAVEMENT MARKING - 4" YELLOW SOLID LINE
⑱	THERMOPLASTIC PAVEMENT MARKING - 6" WHITE SOLID LINE
⑲	THERMOPLASTIC PAVEMENT MARKING - 6" WHITE DOTTED LINE EXTENSION (2' DASH, 6' SKIP)
⑳	THERMOPLASTIC PAVEMENT MARKING - 8" WHITE SOLID LINE
㉑	THERMOPLASTIC PAVEMENT MARKING - 12" YELLOW DIAGONAL LINE @ 45° AND 75° C-C
㉒	THERMOPLASTIC PAVEMENT MARKING - 12" WHITE CROSSWALK LINE
㉓	THERMOPLASTIC PAVEMENT MARKING - 24" WHITE STOP BAR
㉔	RAISED REFLECTIVE PAVEMENT MARKER
㉕	RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)

②④ TWO-WAY AMBER MARKER (TYP.)

MATCHLINE STA 22+00.00

1

FILE NAME = D:\6010-10-10-2024\pmlc209.dgn



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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING PLAN  
BALLARD ROAD

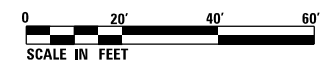
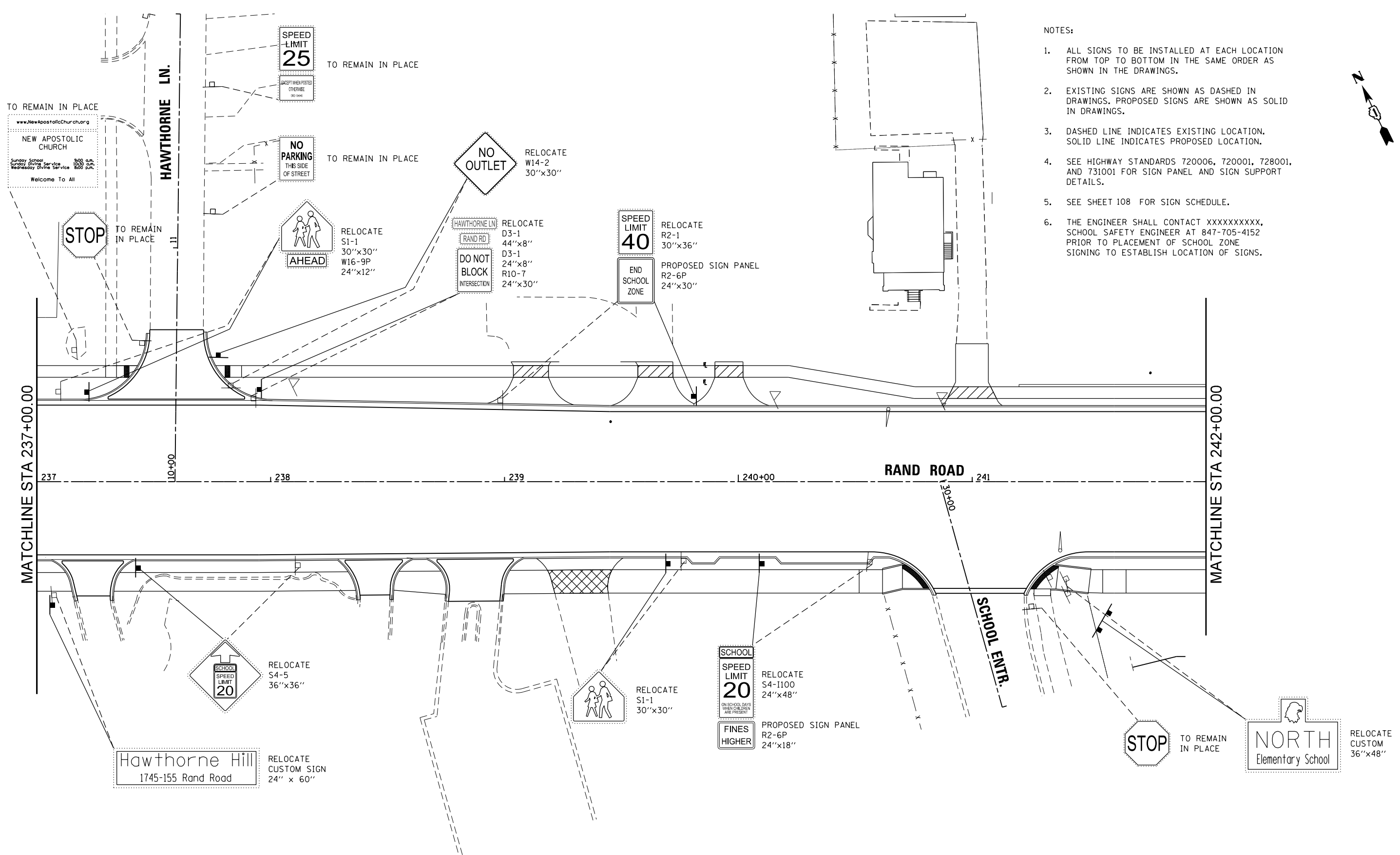
SCALE: 1" = 20' SHEET 9 OF 9 SHEETS STA. 22+00.00 TO STA. 27+00.00

1 REVISED ENTIRE SHEET 5/28/2024				
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3523	120-Y-B	COOK	267	102
CONTRACT NO. 60J10				
ILLINOIS FED. AID PROJECT				



NOTES:

1. ALL SIGNS TO BE INSTALLED AT EACH LOCATION FROM TOP TO BOTTOM IN THE SAME ORDER AS SHOWN IN THE DRAWINGS.
2. EXISTING SIGNS ARE SHOWN AS DASHED IN DRAWINGS. PROPOSED SIGNS ARE SHOWN AS SOLID IN DRAWINGS.
3. DASHED LINE INDICATES EXISTING LOCATION. SOLID LINE INDICATES PROPOSED LOCATION.
4. SEE HIGHWAY STANDARDS 720006, 720001, 728001, AND 731001 FOR SIGN PANEL AND SIGN SUPPORT DETAILS.
5. SEE SHEET 108 FOR SIGN SCHEDULE.
6. THE ENGINEER SHALL CONTACT XXXXXXXXX, SCHOOL SAFETY ENGINEER AT 847-705-4152 PRIOR TO PLACEMENT OF SCHOOL ZONE SIGNING TO ESTABLISH LOCATION OF SIGNS.



REVISD ENTIRE SHEET 5/28/2024

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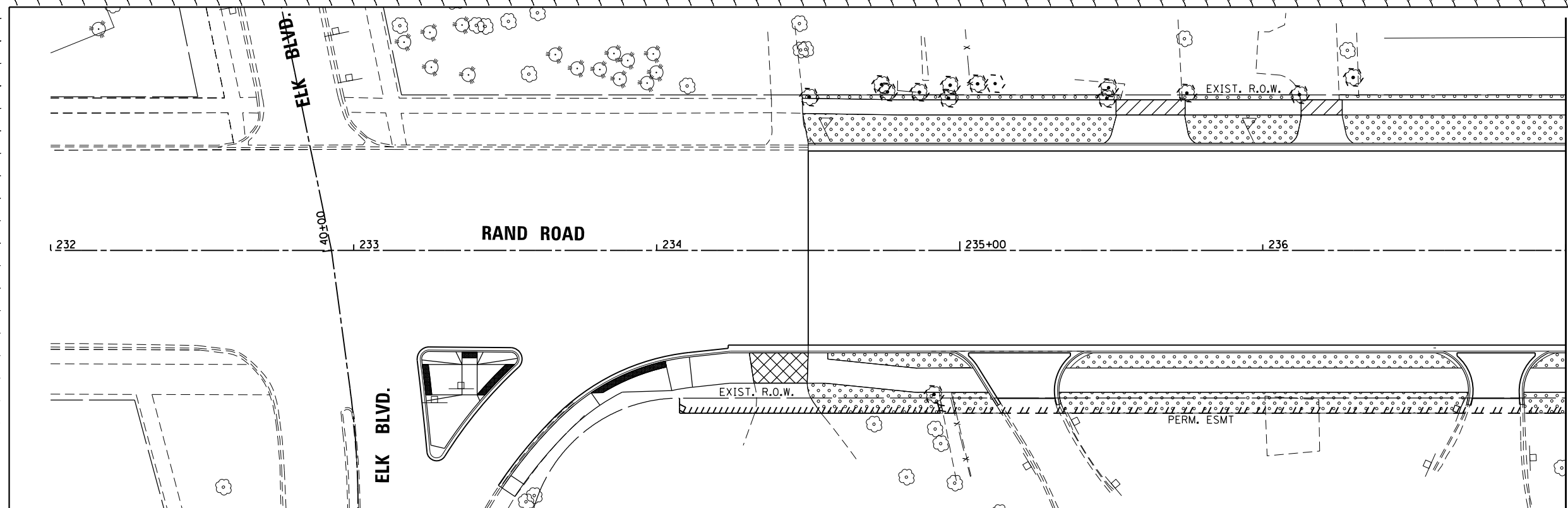
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	PLOT DATE = 5/1/2024	CHECKED -	REVISED -
		DATE - 01/10/2024	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SIGNING PLAN  
RAND ROAD**

SCALE: 1" = 20'    SHEET 2 OF 5 SHEETS    STA. 237+00.00 TO STA. 242+00.00

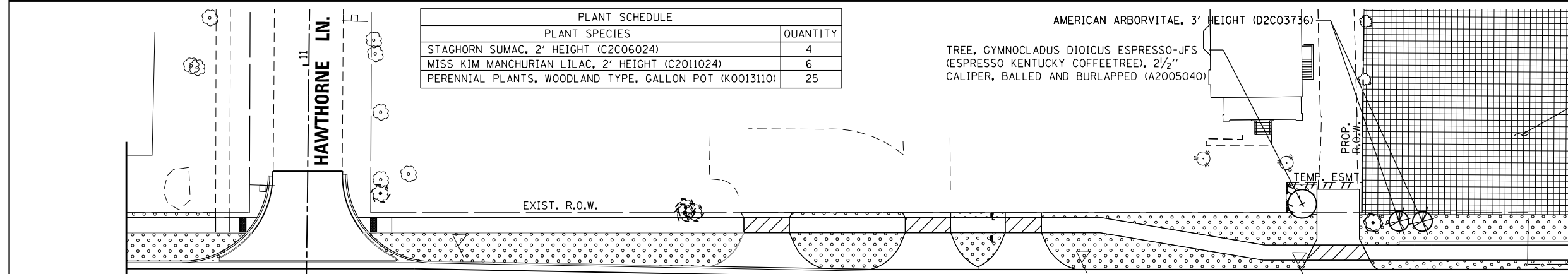
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3523	120-Y-B	COOK	267	104
CONTRACT NO. 60J10				
ILLINOIS FED. AID PROJECT				



SCALE IN FEET

### LANDSCAPING LEGEND

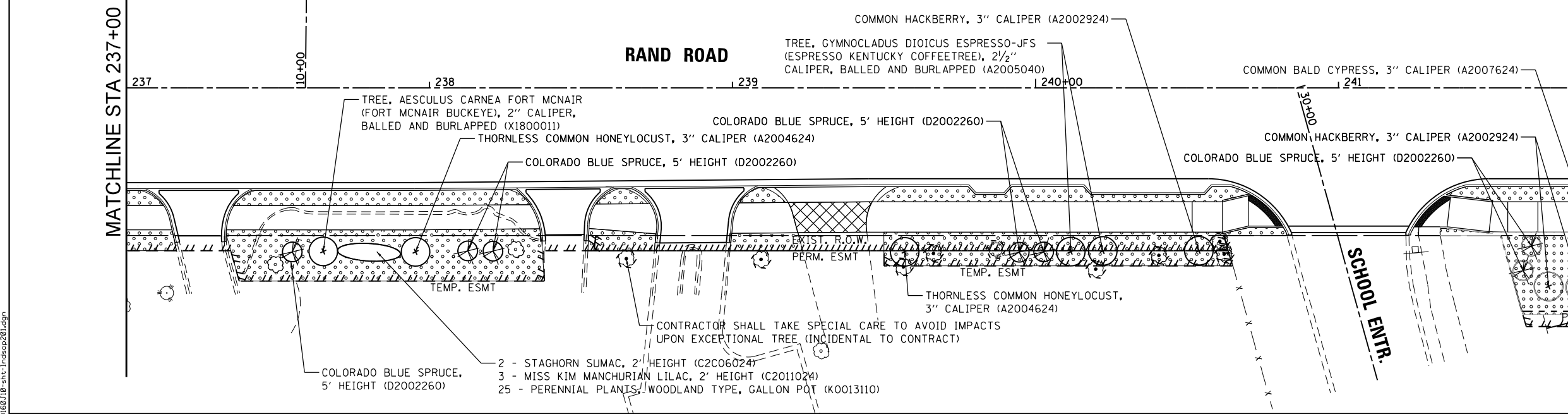
- PROPOSED SHADE TREE
- PROPOSED EVERGREEN TREE
- TREE TRUNK PROTECTION
- SEEDING CLASS 2A  
EROSION CONTROL BLANKET  
(TOPSOIL, 6")
- SEEDING CLASS 4  
EROSION CONTROL BLANKET  
(TOPSOIL, 6")
- SEEDLINGS/OTHER  
EROSION CONTROL BLANKET  
(TOPSOIL, 6")



SCALE IN FEET

SEE LANDSCAPING SHEET 4 FOR  
COMPENSATORY STORAGE AREA  
LANDSCAPING DETAILS

PLANT SCHEDULE	
PLANT SPECIES	QUANTITY
STAGHORN SUMAC, 2' HEIGHT (C2C06024)	4
MISS KIM MANCHURIAN LILAC, 2' HEIGHT (C2011024)	6
PERENNIAL PLANTS, WOODLAND TYPE, GALLON POT (K0013110)	25



SCALE IN FEET

CONTRACTOR SHALL TAKE SPECIAL CARE TO AVOID IMPACTS  
UPON EXCEPTIONAL TREE (INCIDENTAL TO CONTRACT)

- 2 - STAGHORN SUMAC, 2' HEIGHT (C2C06024)
- 3 - MISS KIM MANCHURIAN LILAC, 2' HEIGHT (C2011024)
- 25 - PERENNIAL PLANTS, WOODLAND TYPE, GALLON POT (K0013110)



USER NAME = F1nowicM	DESIGNED - MCK	REVISED -
	DRAWN - MCK	REVISED -
PLOT SCALE = 48.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 5/1/2024	DATE - 01/10/2024	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

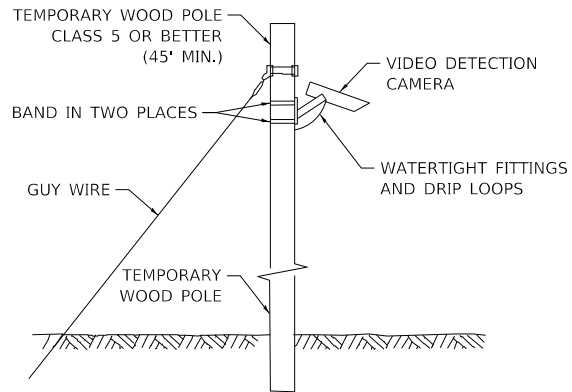
**LANDSCAPING PLAN**

SCALE: 1" = 20'    SHEET 1 OF 4 SHEETS    STA. 234+50.00 TO STA. 242+00.00

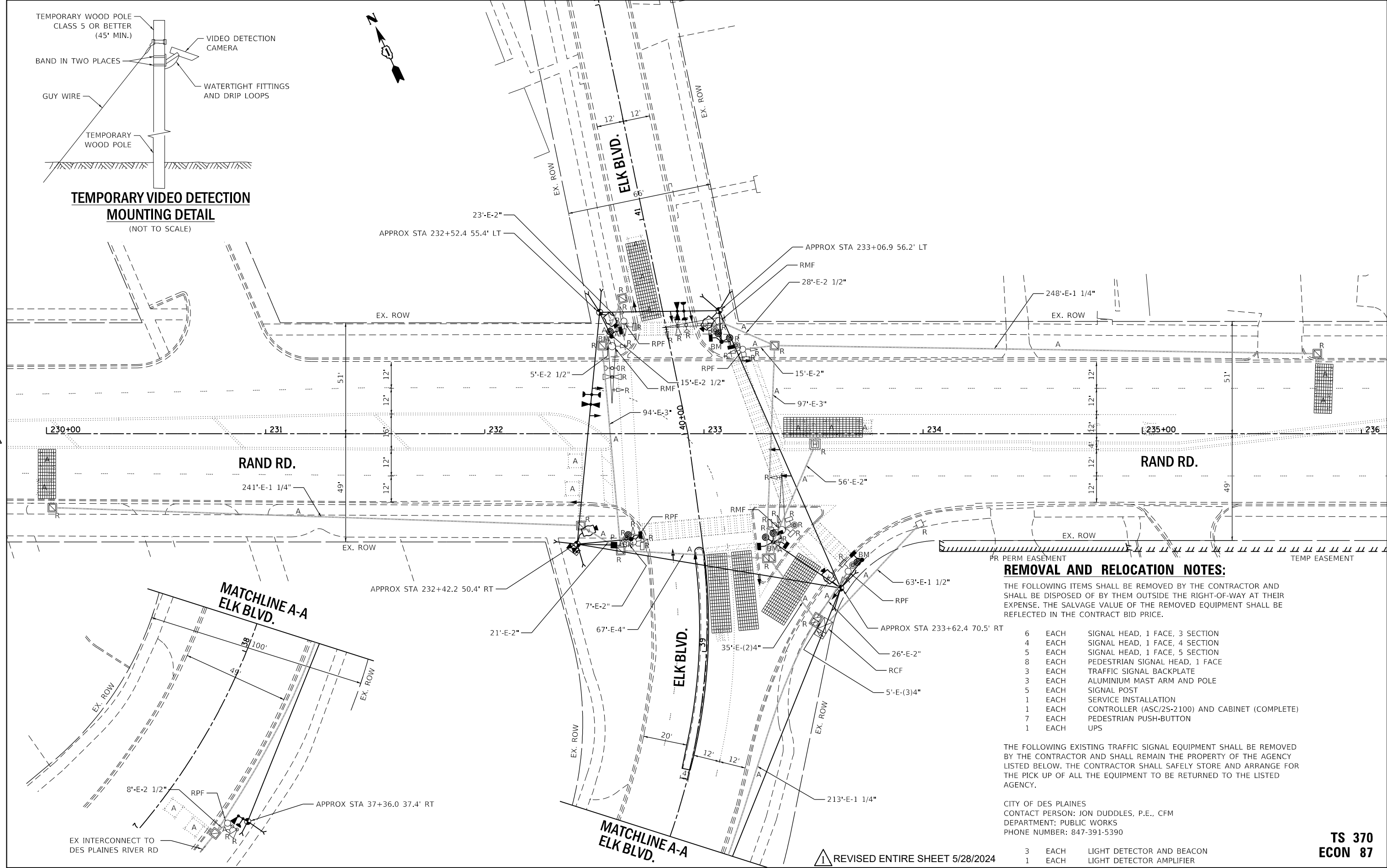
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3523	120-Y-B	COOK	267	109
CONTRACT NO. 60J10				
ILLINOIS FED. AID PROJECT				

▲ REVISED ENTIRE SHEET 5/28/2024

FILE NAME = D:\6010-plt-landscape\201.dgn



**TEMPORARY VIDEO DETECTION MOUNTING DETAIL**  
(NOT TO SCALE)



**REMOVAL AND RELOCATION NOTES:**

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.

- 6 EACH SIGNAL HEAD, 1 FACE, 3 SECTION
- 4 EACH SIGNAL HEAD, 1 FACE, 4 SECTION
- 5 EACH SIGNAL HEAD, 1 FACE, 5 SECTION
- 8 EACH PEDESTRIAN SIGNAL HEAD, 1 FACE
- 3 EACH TRAFFIC SIGNAL BACKPLATE
- 3 EACH ALUMINIUM MAST ARM AND POLE
- 5 EACH SIGNAL POST
- 1 EACH SERVICE INSTALLATION
- 1 EACH CONTROLLER (ASC/25-2100) AND CABINET (COMPLETE)
- 7 EACH PEDESTRIAN PUSH-BUTTON
- 1 EACH UPS

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF THE AGENCY LISTED BELOW. THE CONTRACTOR SHALL SAFELY STORE AND ARRANGE FOR THE PICK UP OF ALL THE EQUIPMENT TO BE RETURNED TO THE LISTED AGENCY.

CITY OF DES PLAINES  
CONTACT PERSON: JON DUDDLES, P.E., CFM  
DEPARTMENT: PUBLIC WORKS  
PHONE NUMBER: 847-391-5390

- 3 EACH LIGHT DETECTOR AND BEACON
- 1 EACH LIGHT DETECTOR AMPLIFIER

TS SHT NO. 9

FILE NAME = D:\60110\shl-rand-elk-01-temp.dgn  
SMODELNAME



USER NAME = Fmowicm	DESIGNED - ZH	REVISED -
PLOT SCALE = 40.0000' / in.	DRAWN - ZH	REVISED -
PLOT DATE = 5/3/2024	CHECKED - DW	REVISED -
	DATE - 12/23/22	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY TRAFFIC SIGNAL INSTALLATION  
RAND ROAD AND ELK BOULEVARD**

SCALE: 1" = 20' SHEET 1 OF 6 SHEETS STA. TO STA.

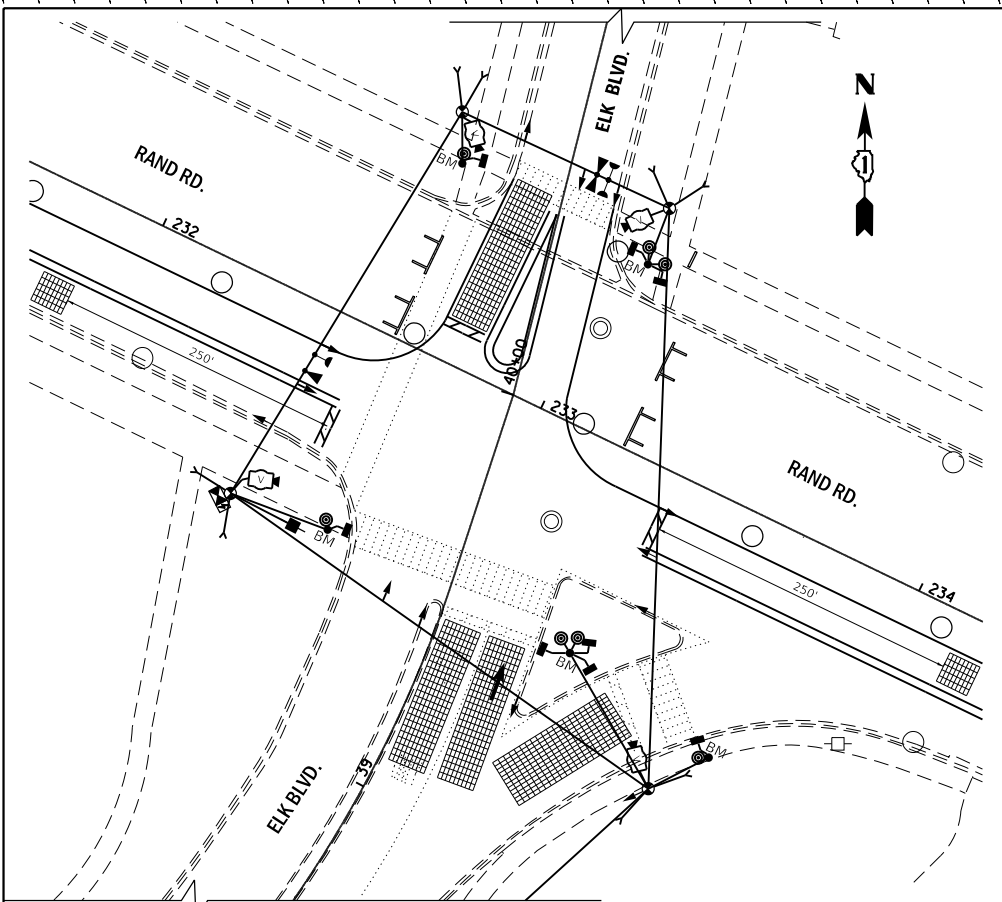
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3523	120-Y-B	COOK	267	121
				CONTRACT NO. 60110

**TS 370  
ECON 87**

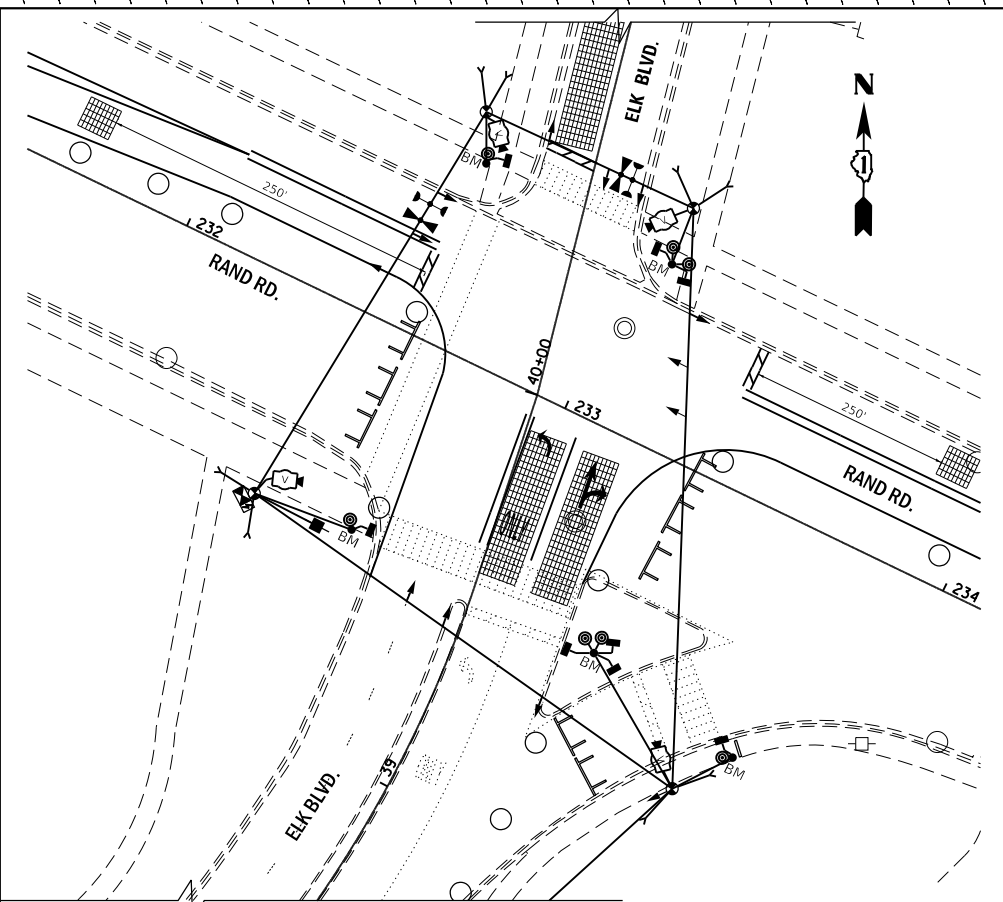
REVISD ENTIRE SHEET 5/28/2024

ILLINOIS FED. AID PROJECT

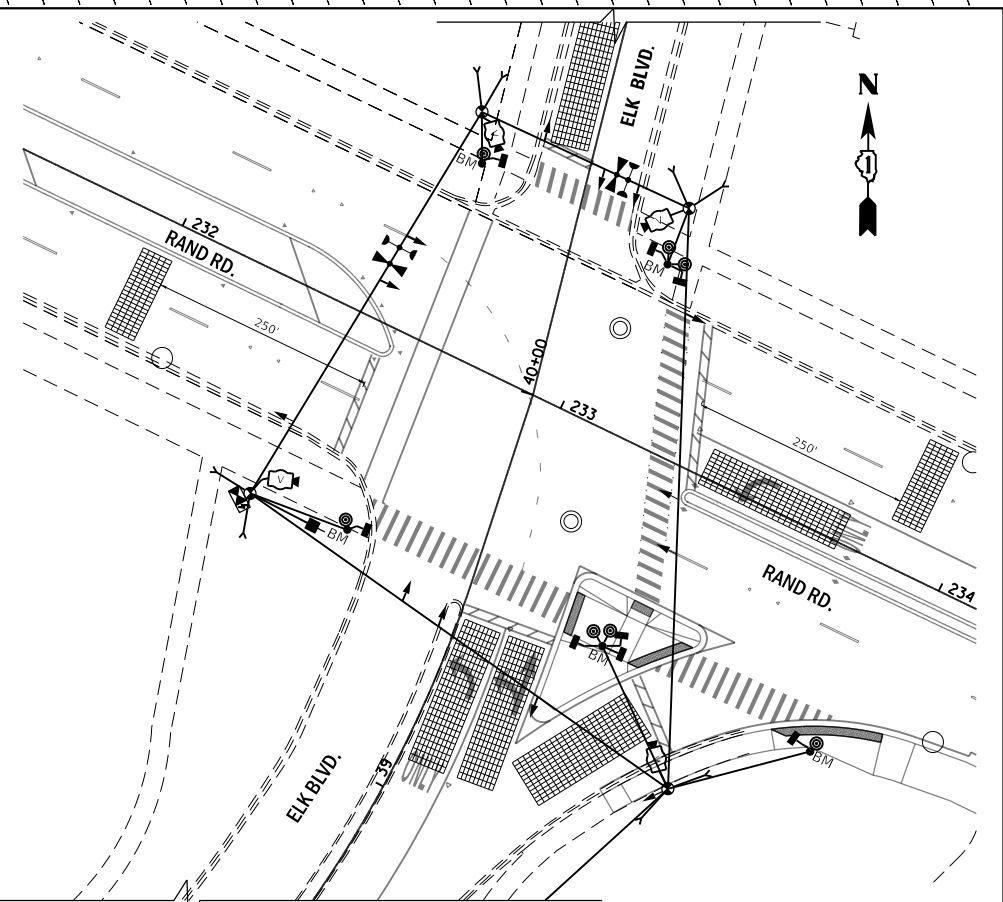




**TEMPORARY TRAFFIC SIGNAL STAGE 1**



**TEMPORARY TRAFFIC SIGNAL STAGE 2**



**TEMPORARY TRAFFIC SIGNAL FINAL CONDITION**



**TS SHT NO. 10**

FILE NAME = D:\60110\shl-rand-elk-02-temp.dgn  
SMODELNAME



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PLOT SCALE = 80,000' / in.	DRAWN - ZH	REVISED -
PLOT DATE = 5/31/2024	CHECKED - DW	REVISED -
	DATE - 12/23/22	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY TRAFFIC SIGNAL INSTALLATION  
STAGE CONSTRUCTION PLAN  
RAND ROAD AT ELK BLVD**

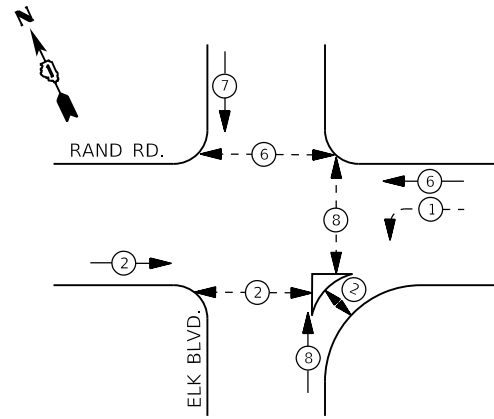
SCALE: N.T.S. SHEET 2 OF 6 SHEETS STA. TO STA.

REVISED ENTIRE SHEET 5/28/2024

**TS 370  
ECON 87**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3523	120-Y-B	COOK	267	122
				CONTRACT NO. 60110
ILLINOIS FED. AID PROJECT				

**PROPOSED CONTROLLER SEQUENCE**

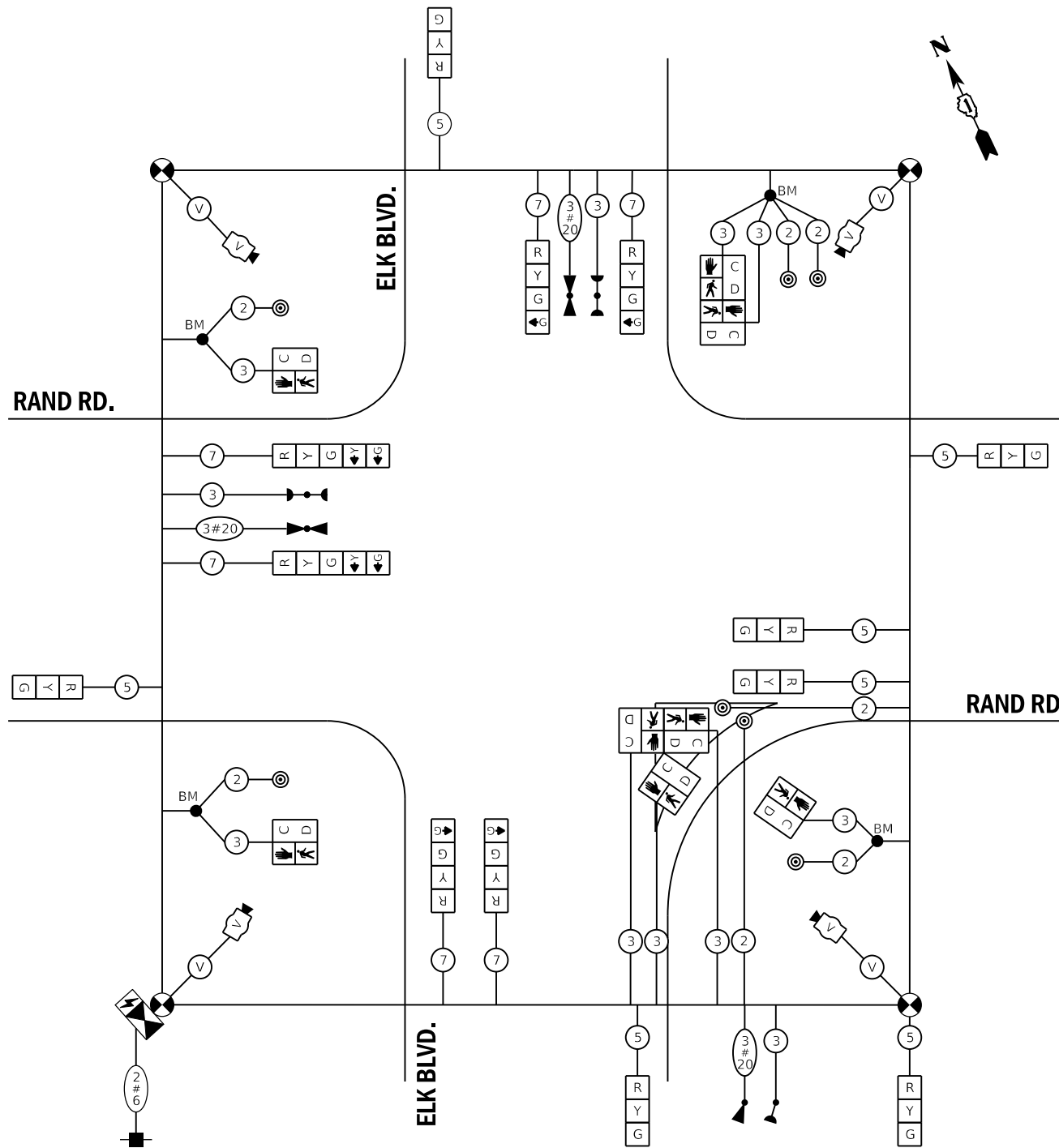
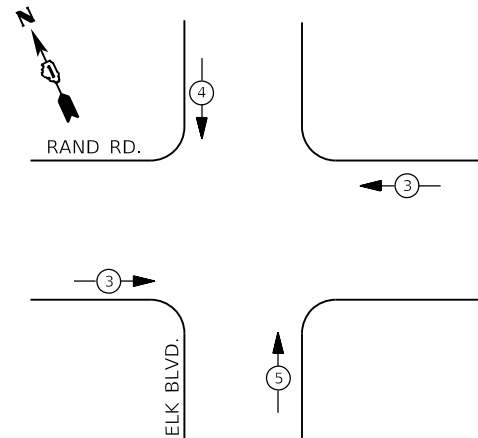


PHASE 1 SHALL BE ON ADVANCED RECALL DURING STAGE 1 & 2

**LEGEND:**

- ← ⊙ ← PROTECTED PHASE
- ← ⊙ - - PROTECTED/PERMITTED PHASE
- ← ⊙ → PEDESTRIAN PHASE
- ← ⊙ OL OVERLAP

**PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE**



**TEMPORARY CABLE PLAN**  
(NOT TO SCALE)

ALL PEDESTRIAN HEADS SHALL BE BAGGED AND DISCONNECTED AT LOCATIONS WHERE EXISTING PAVEMENT IS REMOVED. ALL PEDESTRIAN SIGNAL HEADS SHALL REMAIN BAGGED UNTIL THE PAVEMENT IS RESTORED TO PROVIDE A SAFE CROSSING AREA. USAGE OF PEDESTRIAN SIGNALS IS BASED ON CONSTRUCTION STAGING AND SHALL BE DETERMINED BY THE RESIDENT ENGINEER. IF SIDEWALKS AND PEDESTRIAN CROSSINGS ARE NOT PROVIDED, THE PEDESTRIAN SIGNAL EQUIPMENT SHALL REMAIN DISCONNECTED UNTIL WARRANTED PRIOR TO THE PERMANENT SIGNAL TURN-ON.

**TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS**

EQUIPMENT TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD 1 OR 3-SECTION	7	11	77
4-SECTION	4	14	56
5-SECTION	2	13	26
PROGRAMMABLE 3-SECTION	-	22	-
4-SECTION	-	32	-
5-SECTION	-	28	-
PEDESTRIAN SIGNAL CONTROLLER	8	15	120
MASTER CONTROLLER	1	150	150
UPS	-	100	-
DETECTION RADAR OR VIDEO	1	25	25
BLANK-OUT SIGN	1	20	20
NETWORK SWITCH II OR III	-	25	-
CELLULAR MODEM	-	35	-
	-	15	-
TOTAL UPS SIZING			474
UPS CHARGING	1	225	225
BATTERY HEATER MAT	1	180	180
CABINET HEATER	1	200	200
FLASHER	-	15	-
LED STREET NAME SIGN	-	120	-
LUMINAIRE	-	240	-
TOTAL SERVICE WIRE SIZING			1079

**CITY OF DES PLAINES**

1420 MINER ST  
DES PLAINES, IL 60016

**ENERGY SUPPLY:**

CONTACT: JAMES CAMPBELL  
PHONE: (630) 940-6805  
COMPANY: COMMONWEALTH EDISON  
ACCOUNT NUMBER: \_\_\_\_\_

DESIGNED - ZH	REVISED -
DRAWN - ZH	REVISED -
CHECKED - DW	REVISED -
DATE - 12/23/22	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>RAND ROAD AT ELK BOULEVARD</b>			
<b>TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM &amp; TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE - STAGE 1, 2 &amp; FINAL</b>			
SCALE: N.T.S.	SHEET 3 OF 6 SHEETS	STA. _____	TO STA. _____

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3523	120-Y-B	COOK	267	123
			CONTRACT NO. 60110	
ILLINOIS FED. AID PROJECT				

REVISED ENTIRE SHEET 5/28/2024

**TS 370  
ECON 87**

TS SHT NO. 11

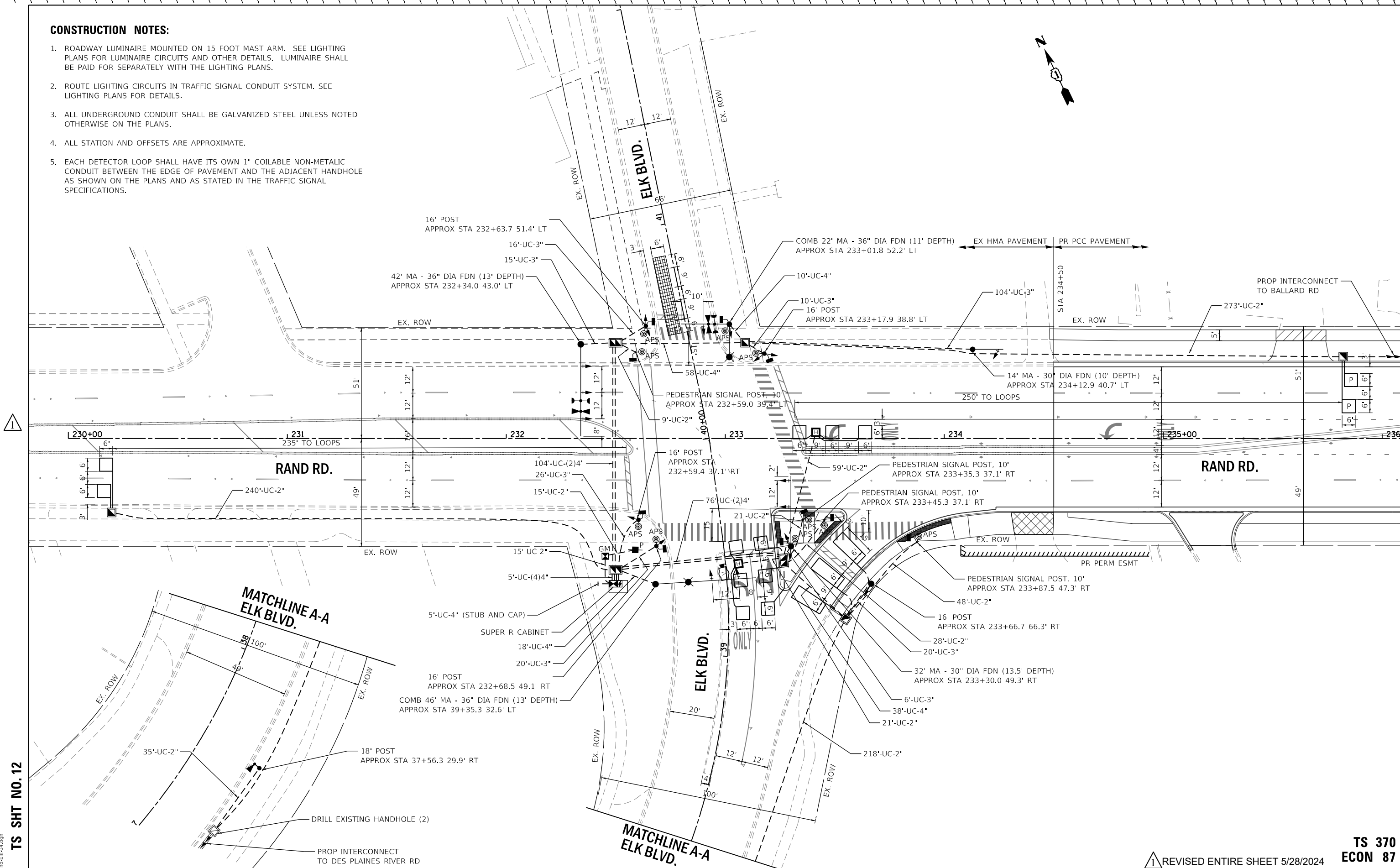
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USER NAME = FmowicM	DESIGNED - ZH	REVISED -
PLOT SCALE = 40,000' / in.	DRAWN - ZH	REVISED -
PLOT DATE = 5/3/2024	CHECKED - DW	REVISED -
	DATE - 12/23/22	REVISED -

**CONSTRUCTION NOTES:**

1. ROADWAY LUMINAIRE MOUNTED ON 15 FOOT MAST ARM. SEE LIGHTING PLANS FOR LUMINAIRE CIRCUITS AND OTHER DETAILS. LUMINAIRE SHALL BE PAID FOR SEPARATELY WITH THE LIGHTING PLANS.
2. ROUTE LIGHTING CIRCUITS IN TRAFFIC SIGNAL CONDUIT SYSTEM. SEE LIGHTING PLANS FOR DETAILS.
3. ALL UNDERGROUND CONDUIT SHALL BE GALVANIZED STEEL UNLESS NOTED OTHERWISE ON THE PLANS.
4. ALL STATION AND OFFSETS ARE APPROXIMATE.
5. EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NON-METALIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLE AS SHOWN ON THE PLANS AND AS STATED IN THE TRAFFIC SIGNAL SPECIFICATIONS.



TS SHT NO. 12

FILE NAME = D:\60110\shl-rand-elk-04.dgn  
SMODELNAME



USER NAME = Fmowicm	DESIGNED - ZH	REvised -
PLOT SCALE = 40.0000' / in.	DRAWN - ZH	REvised -
PLOT DATE = 5/3/2024	CHECKED - DW	REvised -
	DATE - 12/23/22	REvised -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL MODERNIZATION PLAN  
RAND ROAD AND ELK BOULEVARD**

SCALE: 1" = 20' SHEET 4 OF 6 SHEETS STA. TO STA.

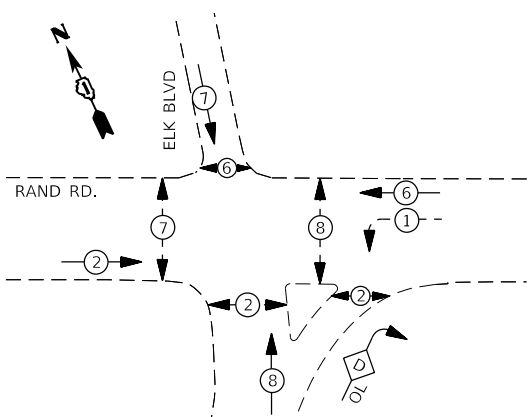
1 REVISED ENTIRE SHEET 5/28/2024

TS 370  
ECON 87

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3523	120-Y-B	COOK	267	124
CONTRACT NO. 60110				

ILLINOIS FED. AID PROJECT

**PROPOSED CONTROLLER SEQUENCE**



**LEGEND:**

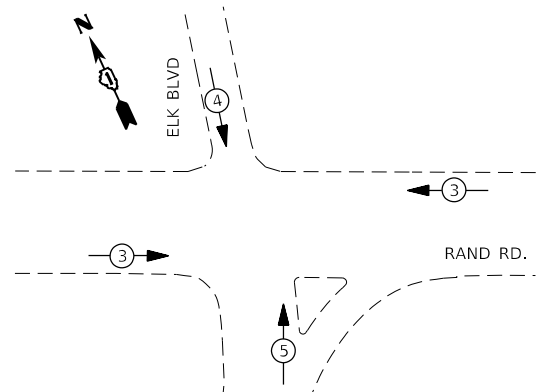
- ← (⊙) ← PROTECTED PHASE
- ← (⊙) - - PROTECTED/PERMITTED PHASE
- ← (⊙) → PEDESTRIAN PHASE
- ← (⊙) OL OVERLAP

**RIGHT TURN OVERLAP PHASE DESIGNATION:**

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
D	= 8	+ 1

SET "PEDESTRIAN PROTECT" TO OMIT RIGHT TURN OVERLAP DURING PEDESTRIAN PHASE 2

**PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE**



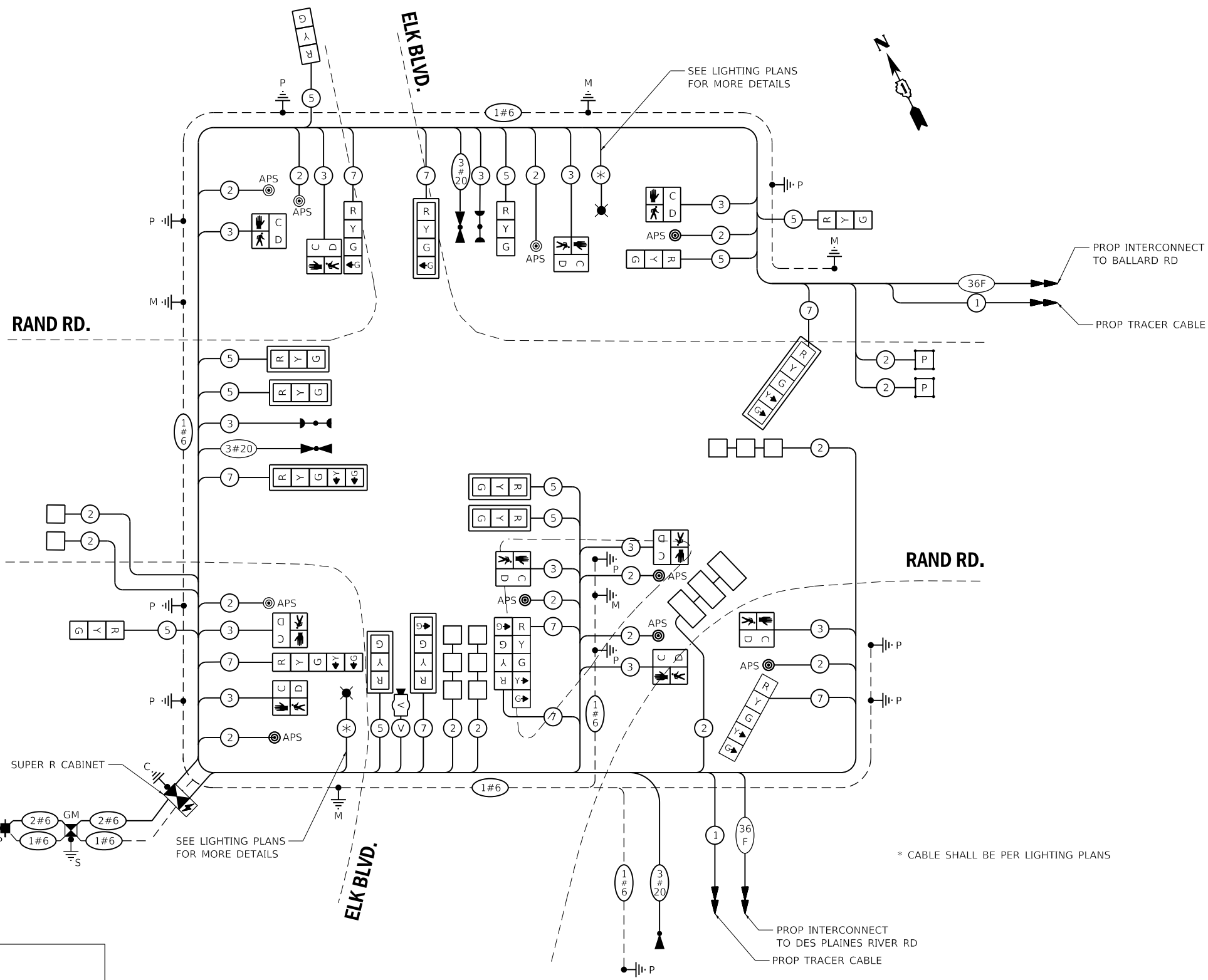
**TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS**

EQUIPMENT TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD 1 OR 3-SECTION	10	11	110
4-SECTION	4	14	56
5-SECTION	5	13	65
PROGRAMMABLE 3-SECTION	-	22	-
4-SECTION	-	32	-
5-SECTION	-	28	-
PEDESTRIAN SIGNAL CONTROLLER	10	15	150
MASTER CONTROLLER	1	150	150
UPS	-	100	-
DETECTION RADAR OR VIDEO	1	25	25
BLANK-OUT SIGN	1	20	20
NETWORK SWITCH II OR III	-	25	-
CELLULAR MODEM	-	35	-
	-	15	-
TOTAL UPS SIZING			576
UPS CHARGING	1	225	225
BATTERY HEATER MAT	1	180	180
CABINET HEATER	1	200	200
FLASHER	-	15	-
LED STREET NAME SIGN	-	120	-
LUMINAIRE	2	240	480
TOTAL SERVICE WIRE SIZING			1661

**CITY OF DES PLAINES**

1420 MINER ST  
DES PLAINES, IL 60016

ENERGY SUPPLY:  
CONTACT: JAMES CAMPBELL  
PHONE: (630) 940-6805  
COMPANY: COMMONWEALTH EDISON  
ACCOUNT NUMBER: 14016-32000



**CABLE PLAN**  
(NOT TO SCALE)

\* CABLE SHALL BE PER LIGHTING PLANS

NOTES:  
ALL RED INDICATIONS SHALL HAVE A LENS COVER.

1

TS SHT NO. 13

FILE NAME = D:\60110shl-rand-elk-05-cable.dgn



USER NAME = FrowicM  
DESIGNED - ZH  
DRAWN - ZH  
CHECKED - DW  
PLOT DATE = 5/3/2024

REVISOR -  
REVISOR -  
REVISOR -  
REVISOR -

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

**RAND ROAD AND ELK BOULEVARD**  
**CABLE PLAN, SCHEDULE OF QUANTITIES, PHASE DESIGNATION DIAGRAM & EMERGENCY VEHICLE PREEMPTION SEQUENCE**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3523	120-Y-B	COOK	267	125
CONTRACT NO. 60110			ILLINOIS FED. AID PROJECT	

**TS 370**  
**ECON 87**

1 REVISED ENTIRE SHEET 5/28/2024

SCALE: N.T.S. SHEET 5 OF 6 SHEETS STA. TO STA.

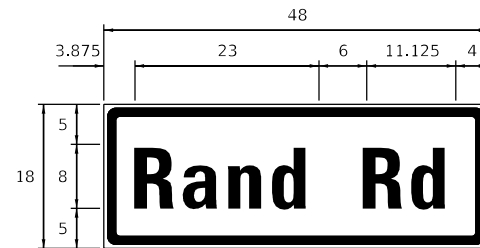
**SCHEDULE OF QUANTITIES**

ITEM DESCRIPTION	UNIT	TOTAL QUANTITY
SIGN PANEL - TYPE 1	SQ FT	24
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	982
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	217
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	509
HANDHOLE	EACH	4
HEAVY-DUTY HANDHOLE	EACH	2
DOUBLE HANDHOLE	EACH	3
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1525
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	2030
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1860
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1500
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	2090
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	65
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1485
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	5
TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 14 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 32 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 42 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 22 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 46 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	28
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	24
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	37
DRILL EXISTING HANDHOLE	EACH	2
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	5
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	5
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	3
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	2
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	10
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	9
INDUCTIVE LOOP DETECTOR	EACH	8
DETECTOR LOOP, TYPE I	FOOT	499
PREFORMED DETECTOR LOOP	FOOT	66
* LIGHT DETECTOR	EACH	3
* LIGHT DETECTOR AMPLIFIER	EACH	1
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	8
REMOVE EXISTING DOUBLE HANDHOLE	EACH	2
REMOVE EXISTING CONCRETE FOUNDATION	EACH	9
* EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	875
FULL-ACTUATED CONTROLLER AND TYPE SUPER R CABINET (SPECIAL)	EACH	1
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
PEDESTRIAN SIGNAL POST, 10 FT.	EACH	4
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	10
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	16
LED SIGNAL FACE, LENS COVER	EACH	19
VIDEO VEHICLE DETECTION SYSTEM, SINGLE APPROACH	EACH	1
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1

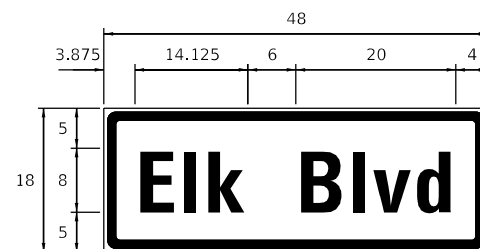
\* - 100% COST TO THE CITY OF DES PLAINES

**SIGN PANEL - TYPE 1 OR TYPE 2**

ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE.



DESIGN SERIES	AREA (SQ. FT)	SIGN PANEL TYPE	SHEETING TYPE	QUANTITY REQUIRED
D	6	1	ZZ	2



DESIGN SERIES	AREA (SQ. FT)	SIGN PANEL TYPE	SHEETING TYPE	QUANTITY REQUIRED
D	6	1	ZZ	2

NOTE:  
FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION  
PLEASE SEE DISTRICT ONE MAST ARM MOUNTED STREET NAME  
SIGN DETAIL.



TS SHT NO. 14

FILE NAME = D:\60110\shl-rand-elk-06-SQ.dgn

SMODELNAME



USER NAME = FmowicM	DESIGNED - ZH	REVISED -
PLOT SCALE = 100.0000 ' / in.	DRAWN - ZH	REVISED -
PLOT DATE = 5/3/2024	CHECKED - DW	REVISED -
	DATE - 12/23/22	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

MAST ARM MOUNTED STREET NAME SIGNS  
AND SCHEDULE OF QUANTITIES  
RAND RD AND ELK BLVD

SCALE: SHEET 6 OF 6 SHEETS STA. TO STA.

F.A.U. RTE. 3523	SECTION 120-Y-B	COUNTY COOK	TOTAL SHEETS 267	SHEET NO. 126
CONTRACT NO. 60110				
ILLINOIS FED. AID PROJECT				

REVISION 1 REVISOR: [Symbol] DATE: 5/28/2024

TS 370  
ECON 87



**REMOVAL AND RELOCATION NOTES:**

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.

- 7 EACH SIGNAL HEAD, 1 FACE, 3 SECTION
- 4 EACH SIGNAL HEAD, 1 FACE, 5 SECTION
- 2 EACH PEDESTRIAN SIGNAL HEAD, 1 FACE
- 2 EACH TRAFFIC SIGNAL BACKPLATE
- 1 EACH ALUMINIUM MAST ARM AND POLE (SEQ)
- 6 EACH SIGNAL POST
- 1 EACH SERVICE INSTALLATION

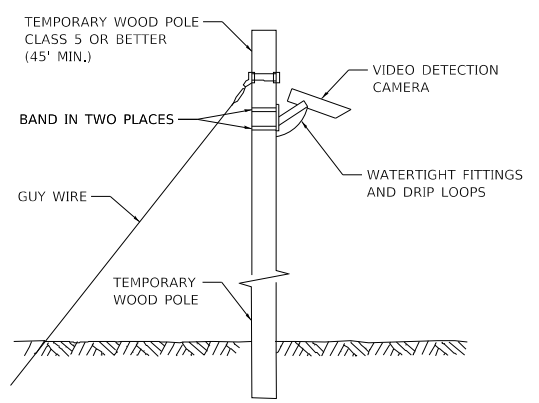
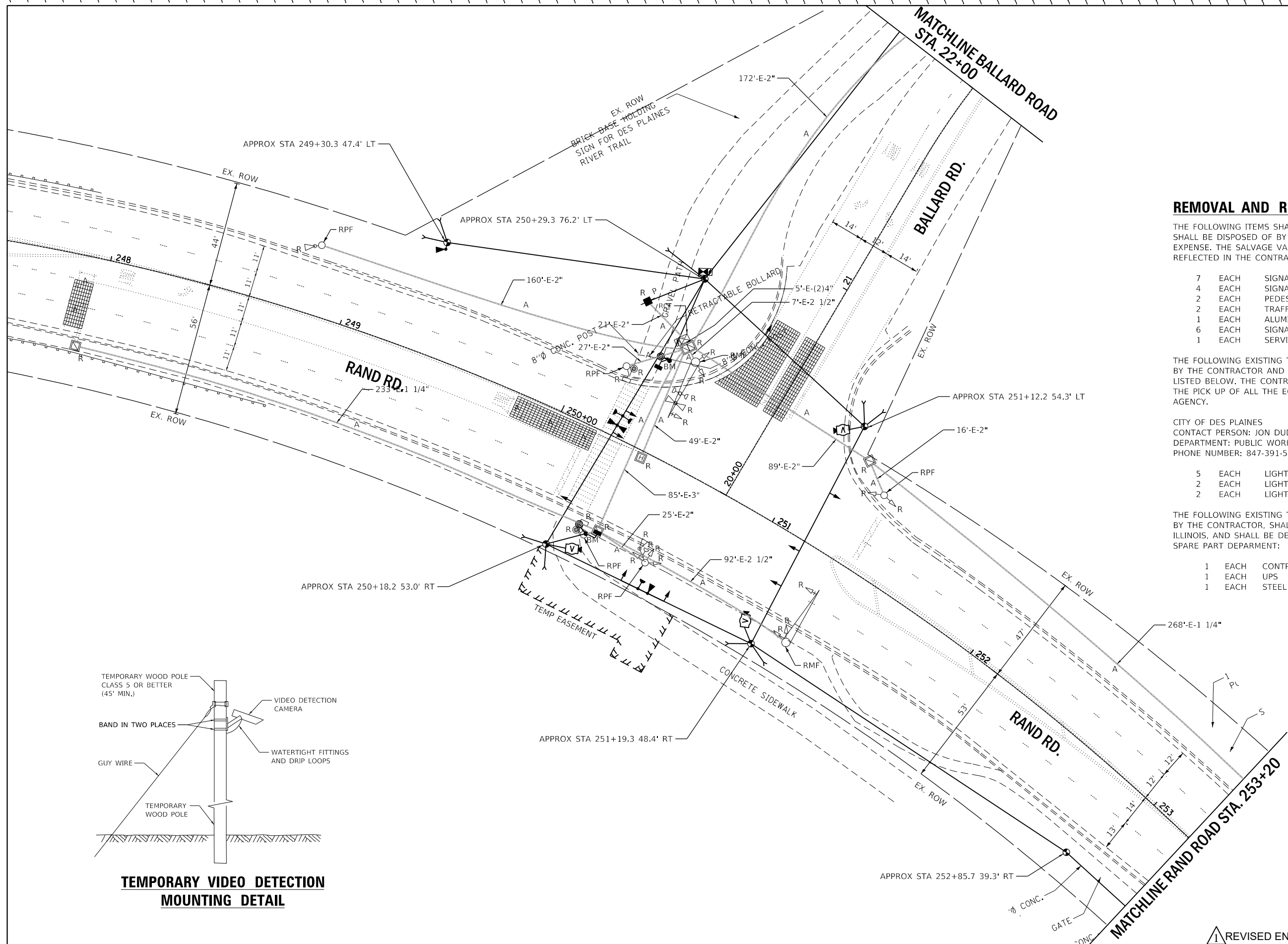
THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF THE AGENCY LISTED BELOW. THE CONTRACTOR SHALL SAFELY STORE AND ARRANGE FOR THE PICK UP OF ALL THE EQUIPMENT TO BE RETURNED TO THE LISTED AGENCY.

CITY OF DES PLAINES  
 CONTACT PERSON: JON DUDDLES, P.E., CFM  
 DEPARTMENT: PUBLIC WORKS  
 PHONE NUMBER: 847-391-5390

- 5 EACH LIGHT DETECTOR
- 2 EACH LIGHT DETECTOR BEACON
- 2 EACH LIGHT DETECTOR AMPLIFIER

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SHALL REMAIN THE PROPERTY OF THE STATE OF ILLINOIS, AND SHALL BE DELIVERED BY THE CONTRACTOR TO THE STATE SPARE PART DEPARTMENT:

- 1 EACH CONTROLLER (COBALT) AND CABINET (COMPLETE)
- 1 EACH UPS
- 1 EACH STEEL MAST ARM AND POLE (NWQ)



**TEMPORARY VIDEO DETECTION MOUNTING DETAIL**

TS SHT NO. 15

FILE NAME = D:\60110\shl-rand-ballard-01-temp.dgn  
 SMODELNAME



USER NAME = Fmwicm	DESIGNED - ZH	REVISED -
PLOT SCALE = 40.0000' / in.	DRAWN - ZH	REVISED -
PLOT DATE = 5/1/2024	CHECKED - DW	REVISED -
	DATE - 12/23/22	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

**TEMPORARY TRAFFIC SIGNAL INSTALLATION  
 RAND ROAD AND BALLARD ROAD**

SCALE: 1" = 20' SHEET 1 OF 8 SHEETS STA. TO STA.

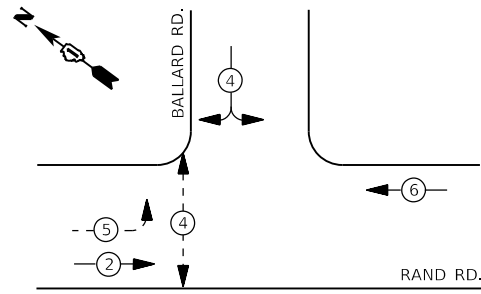
F.A.U. RTE. 3523	SECTION 120-Y-B	COUNTY COOK	TOTAL SHEETS 267	SHEET NO. 127
CONTRACT NO. 60110				
ILLINOIS FED. AID PROJECT				

REVISD ENTIRE SHEET 5/28/2024

TS 4160  
 ECON 87



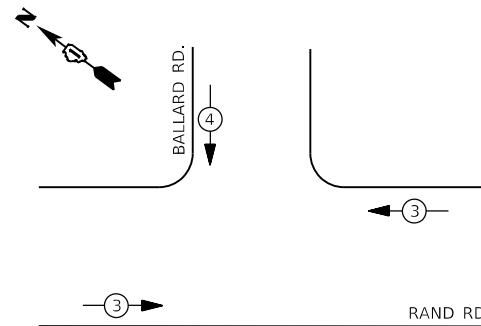
**PROPOSED CONTROLLER SEQUENCE**



- LEGEND:**
- ← ⊙ ← PROTECTED PHASE
  - ← ⊙ - - PROTECTED/PERMITTED PHASE
  - ← ⊙ → PEDESTRIAN PHASE
  - ← ⊙ OL OVERLAP

NOTE:  
1. PHASE 5 SHALL BE ON ADVANCED RECALL DURING STAGE 1, 1B, & 2.

**PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE**



**TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS**

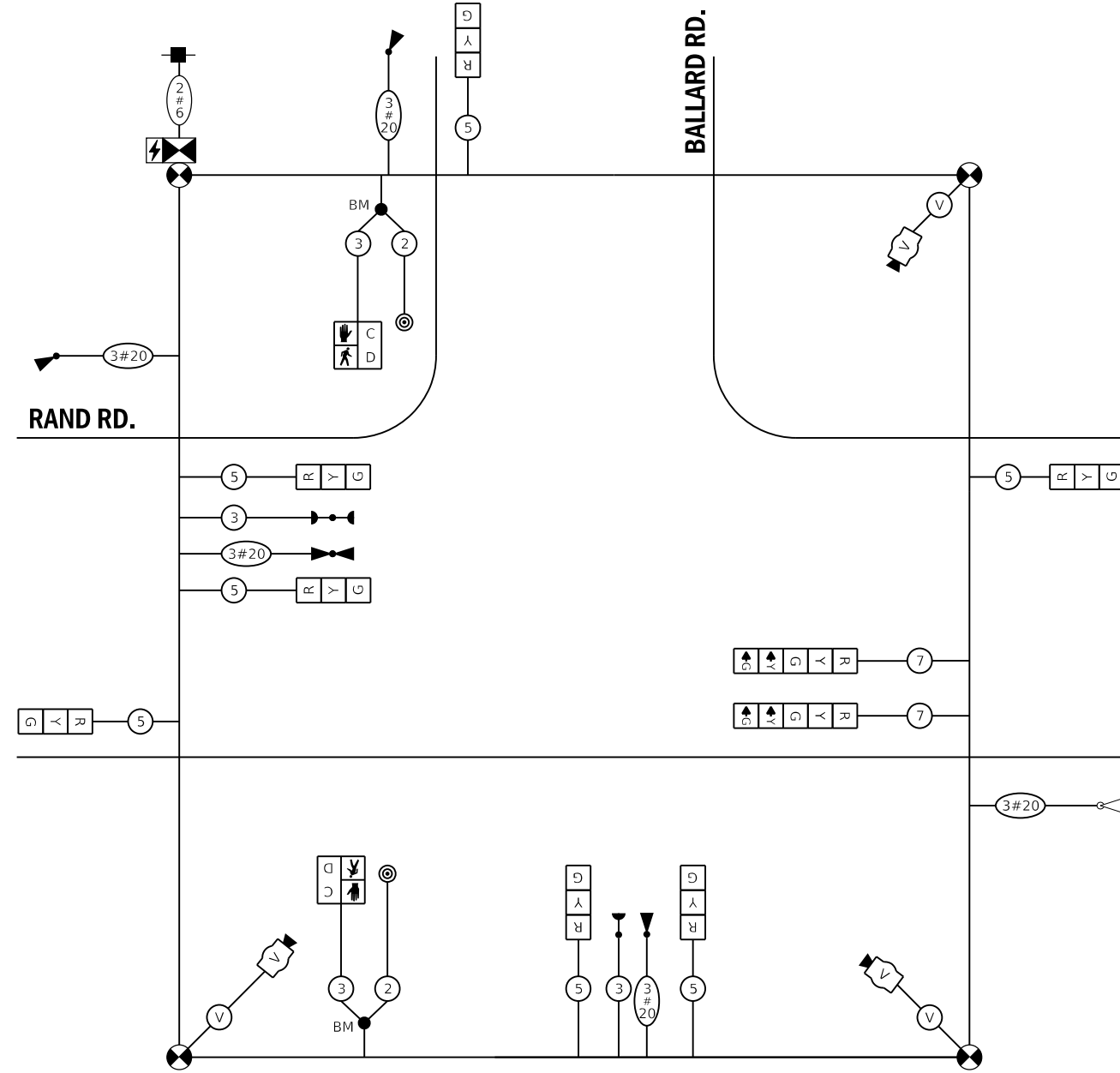
EQUIPMENT TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD 1 OR 3-SECTION	7	11	77
4-SECTION	-	14	-
5-SECTION	2	13	26
PROGRAMMABLE 3-SECTION	-	22	-
4-SECTION	-	32	-
5-SECTION	-	28	-
PEDESTRIAN SIGNAL CONTROLLER	2	15	30
MASTER CONTROLLER	1	150	150
UPS	-	100	-
DETECTION RADAR OR VIDEO	1	25	25
BLANK-OUT SIGN	1	20	20
NETWORK SWITCH II OR III	-	25	-
CELLULAR MODEM	-	35	-
	-	15	-
TOTAL UPS SIZING			328
UPS CHARGING	1	225	225
BATTERY HEATER MAT	1	180	180
CABINET HEATER	1	200	200
FLASHER	-	15	-
LED STREET NAME SIGN	-	120	-
LUMINAIRE	-	240	-
TOTAL SERVICE WIRE SIZING			933

ENERGY COSTS TO:  
**CITY OF DES PLAINES**

1420 MINER ST  
DES PLAINES, IL 60016

ENERGY SUPPLY:

CONTACT: JAMES CAMPBELL  
PHONE: (630) 940-6805  
COMPANY: COMMONWEALTH EDISON  
ACCOUNT NUMBER:



**TEMPORARY CABLE PLAN**

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

RAND ROAD AT BALLARD ROAD  
TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM  
& TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE – STAGE 1, 1B, 2 & FINAL  
SCALE: N.T.S. SHEET 4 OF 8 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3523	120-Y-B	COOK	267	130
				CONTRACT NO. 60110

REVISD ENTIRE SHEET 5/28/2024

TS 4160  
ECON 87

TS SHT NO. 18



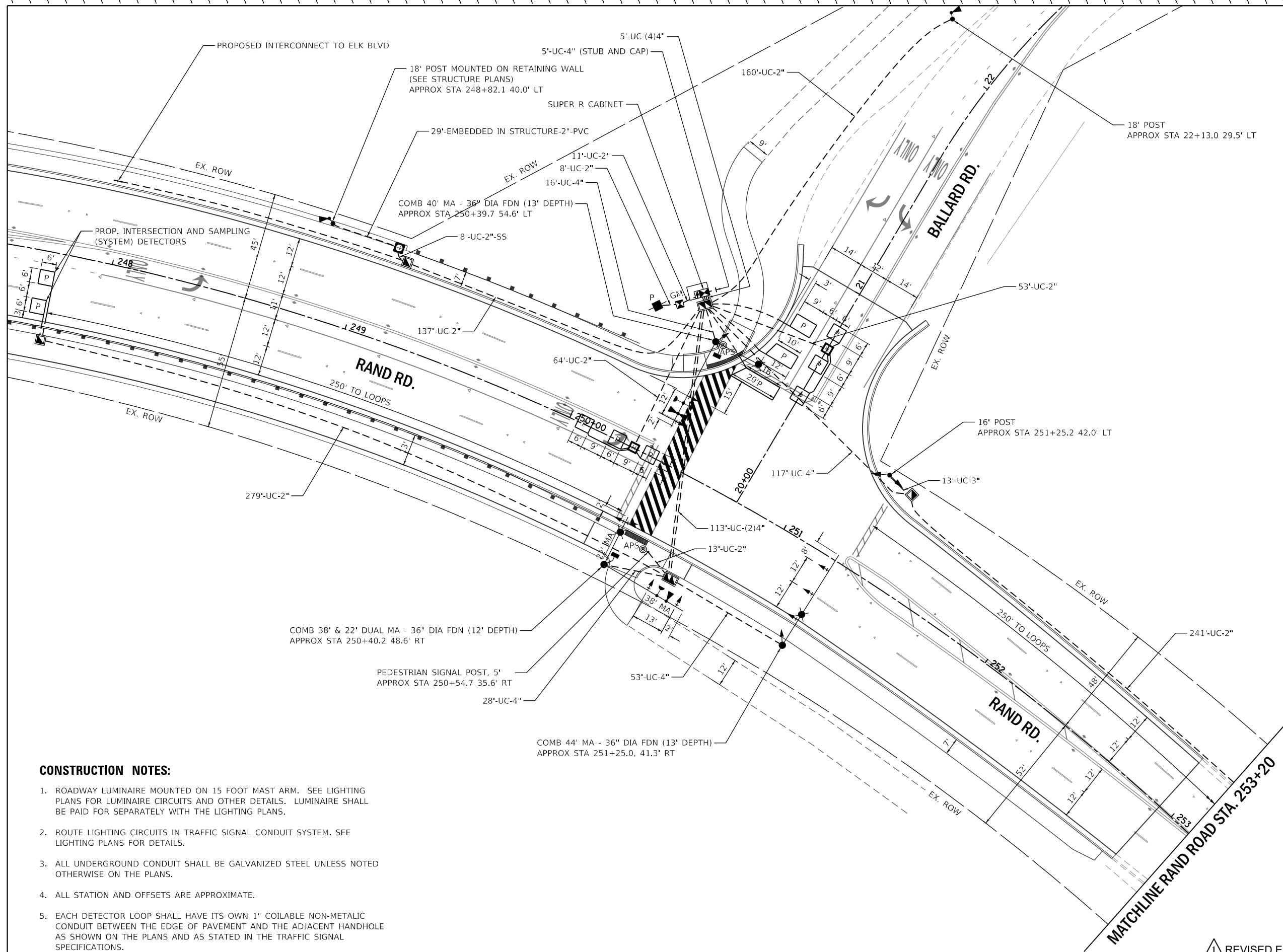
USER NAME = FmowicM  
DESIGNED - ZH  
DRAWN - ZH  
CHECKED - DW  
PLOT DATE = 5/3/2024  
DATE - 12/23/22

REVISD -  
REVISD -  
REVISD -  
REVISD -

FILE NAME = D:\60110\sh1c-Rand-Ballard-04-Temp Cable.dgn

SMODELNAME

ILLINOIS FED. AID PROJECT



**CONSTRUCTION NOTES:**

1. ROADWAY LUMINAIRE MOUNTED ON 15 FOOT MAST ARM. SEE LIGHTING PLANS FOR LUMINAIRE CIRCUITS AND OTHER DETAILS. LUMINAIRE SHALL BE PAID FOR SEPARATELY WITH THE LIGHTING PLANS.
2. ROUTE LIGHTING CIRCUITS IN TRAFFIC SIGNAL CONDUIT SYSTEM. SEE LIGHTING PLANS FOR DETAILS.
3. ALL UNDERGROUND CONDUIT SHALL BE GALVANIZED STEEL UNLESS NOTED OTHERWISE ON THE PLANS.
4. ALL STATION AND OFFSETS ARE APPROXIMATE.
5. EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NON-METALIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLE AS SHOWN ON THE PLANS AND AS STATED IN THE TRAFFIC SIGNAL SPECIFICATIONS.

TS SHT NO. 19

FILE NAME = D:\60110\sh1c-rand-ballard-05.dgn  
SMODELNAME



USER NAME = FmowicM	DESIGNED - ZH	REVISED -
PLOT SCALE = 40.0000' / in.	DRAWN - ZH	REVISED -
PLOT DATE = 5/1/2024	CHECKED - DW	REVISED -
	DATE - 12/23/22	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL MODERNIZATION PLAN  
RAND ROAD AND BALLARD ROAD**

SCALE: 1" = 20'    SHEET 5 OF 8 SHEETS    STA.    TO STA.

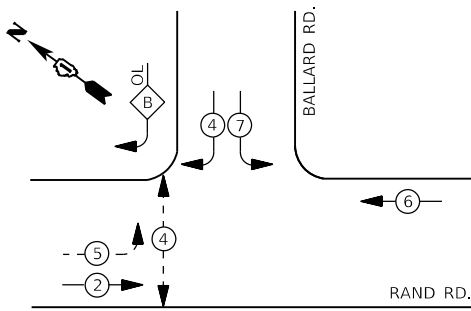
F.A.U. RTE. 3523	SECTION 120-Y-B	COUNTY COOK	TOTAL SHEETS 267	SHEET NO. 131
CONTRACT NO. 60110				

REVISION 1 REVISED ENTIRE SHEET 5/28/2024

**TS 4160  
ECON 87**

ILLINOIS FED. AID PROJECT

**PROPOSED CONTROLLER SEQUENCE**



ADVANCED PEDESTRIAN PHASING SHALL BE USED FOR PEDESTRIAN PHASE 4 OR AS DIRECTED BY THE ENGINEER

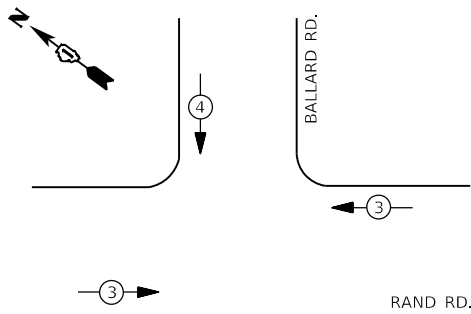
**LEGEND:**

- ← ⊙ ← PROTECTED PHASE
- ← ⊙ - - PROTECTED/PERMITTED PHASE
- ← ⊙ → PEDESTRIAN PHASE
- ← ⊙ OL OVERLAP

**RIGHT TURN OVERLAP PHASE DESIGNATION:**

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
B	= 4	+ 5

**PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE**



**TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS**

EQUIPMENT TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD 1 OR 3-SECTION	9	11	99
4-SECTION	-	14	-
5-SECTION	3	13	39
PROGRAMMABLE 3-SECTION	-	22	-
4-SECTION	-	32	-
5-SECTION	-	28	-
PEDESTRIAN SIGNAL CONTROLLER	2	15	30
MASTER CONTROLLER	1	150	150
UPS	-	100	-
UPS	1	25	25
DETECTION RADAR OR VIDEO	-	20	-
BLANK-OUT SIGN	-	25	-
NETWORK SWITCH II OR III	-	35	-
CELLULAR MODEM	-	15	-
TOTAL UPS SIZING			343
UPS CHARGING	1	225	225
BATTERY HEATER MAT	1	180	180
CABINET HEATER	1	200	200
FLASHER	-	15	-
LED STREET NAME SIGN	-	120	-
LUMINAIRE	3	240	720
TOTAL SERVICE WIRE SIZING			1668

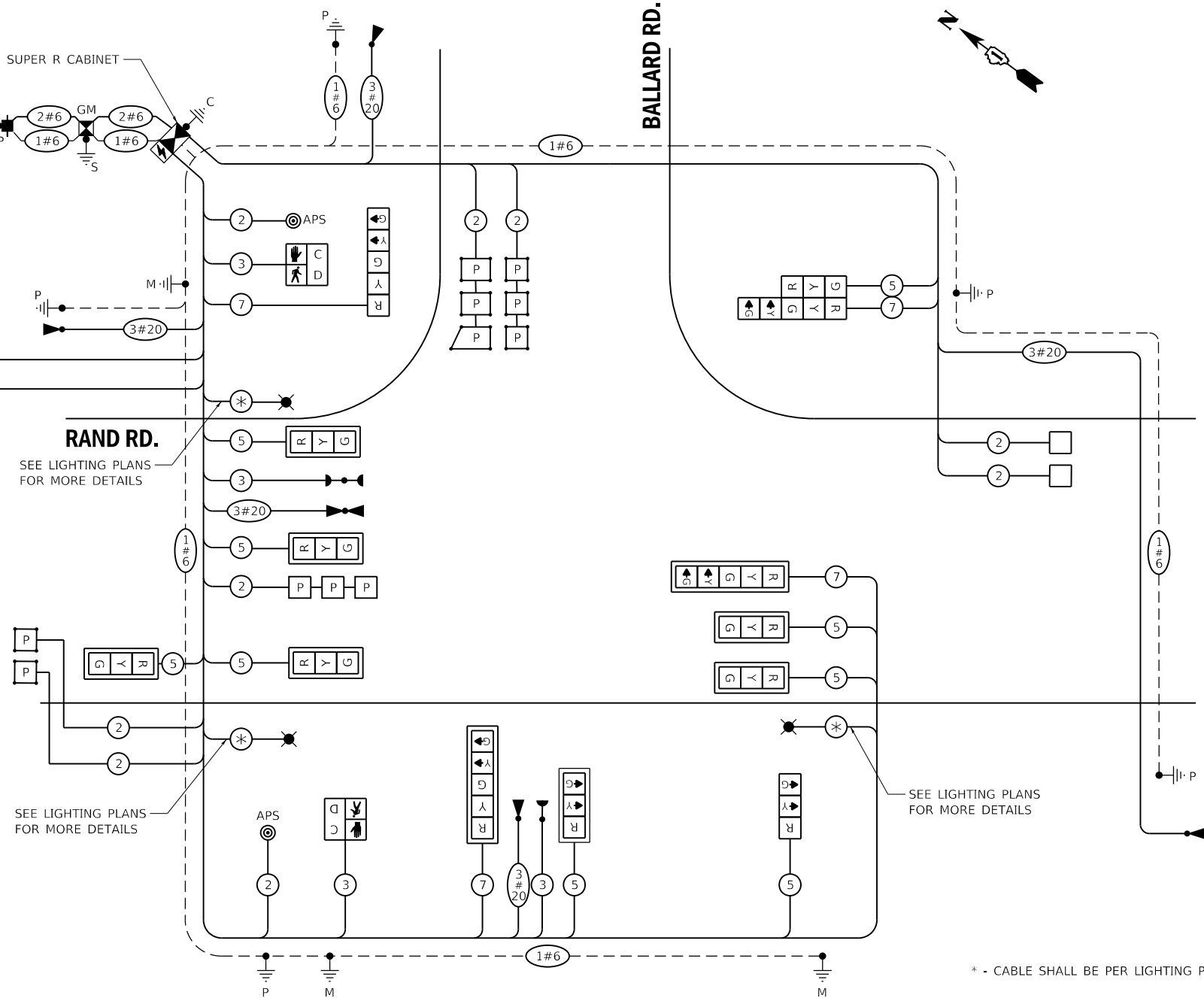
**CITY OF DES PLAINES**

1420 MINER ST  
DES PLAINES, IL 60016

**ENERGY SUPPLY:**

CONTACT: JAMES CAMPBELL  
PHONE: (630) 940-6805  
COMPANY: COMMONWEALTH EDISON  
ACCOUNT NUMBER: 14016-32000

DESIGNED - ZH	REVISED -
DRAWN - ZH	REVISED -
CHECKED - DW	REVISED -
DATE - 12/23/22	REVISED -



**CABLE PLAN**  
(NOT TO SCALE)

\* - CABLE SHALL BE PER LIGHTING PLANS

NOTES:  
ALL RED INDICATIONS SHALL HAVE A LENS COVER.

REVISD ENTIRE SHEET 5/28/2024

**TS 4160  
ECON 87**

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**RAND ROAD AND BALLARD ROAD  
CABLE PLAN, SCHEDULE OF QUANTITIES, PHASE DESIGNATION DIAGRAM  
& EMERGENCY VEHICLE PREEMPTION SEQUENCE**

SCALE: N.T.S. SHEET 7 OF 8 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3523	120-Y-B	COOK	267	133
				CONTRACT NO. 60110

ILLINOIS FED. AID PROJECT

TS SHT NO. 21

FILE NAME = D:\60110\sh1c-rand-ballard-07-cable.cgm

SMODELNAME



USER NAME = FmowicM	DESIGNED - ZH	REVISED -
PLOT SCALE = 40,000' / in.	DRAWN - ZH	REVISED -
PLOT DATE = 5/1/2024	CHECKED - DW	REVISED -
	DATE - 12/23/22	REVISED -

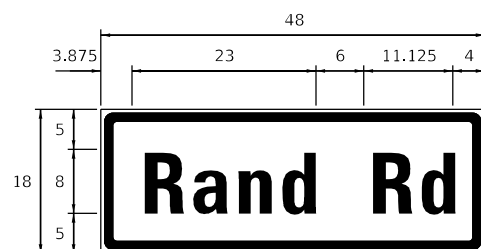
**SCHEDULE OF QUANTITIES**

ITEM DESCRIPTION	UNIT	TOTAL QUANTITY
SIGN PANEL - TYPE 1	SQ FT	21
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	1219
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	13
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	465
CONDUIT EMBEDDED IN STRUCTURE, 2" DIA., PVC	FOOT	29
HANDHOLE	EACH	4
HEAVY-DUTY HANDHOLE	EACH	2
DOUBLE HANDHOLE	EACH	2
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	215
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	560
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1755
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	720
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1855
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	65
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1545
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	1
TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.	EACH	2
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 40 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 44 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	12
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	38
DRILL EXISTING HANDHOLE	EACH	1
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	7
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	2
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	9
INDUCTIVE LOOP DETECTOR	EACH	7
DETECTOR LOOP, TYPE I	FOOT	66
PREFORMED DETECTOR LOOP	FOOT	400
LIGHT DETECTOR	EACH	5
LIGHT DETECTOR AMPLIFIER	EACH	1
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	97
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	5
REMOVE EXISTING DOUBLE HANDHOLE	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	9
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 22 FT. AND 38 FT.	EACH	1
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	1540
ROD AND CLEAN EXISTING CONDUIT	FOOT	97
FULL-ACTUATED CONTROLLER AND TYPE SUPER R CABINET (SPECIAL)	EACH	1
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
UNDERGROUND CONDUIT, STAINLESS STEEL, 2" DIA.	FOOT	8
PEDESTRIAN SIGNAL POST, 5 FT.	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	2
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	4
LED SIGNAL FACE, LENS COVER	EACH	13
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1

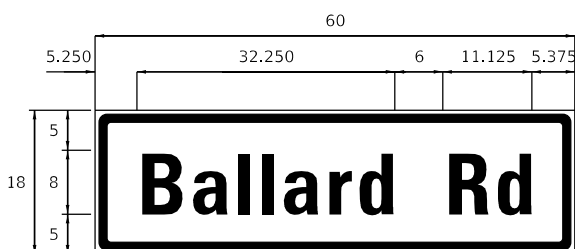
\* - 100% COST TO THE CITY OF DES PLAINES

**SIGN PANEL - TYPE 1 OR TYPE 2**

ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE.



DESIGN SERIES	AREA (SQ. FT)	SIGN PANEL TYPE	SHEETING TYPE	QUANTITY REQUIRED
D	6	1	ZZ	1



DESIGN SERIES	AREA (SQ. FT)	SIGN PANEL TYPE	SHEETING TYPE	QUANTITY REQUIRED
D	7.5	1	ZZ	2

NOTE:  
FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION  
PLEASE SEE DISTRICT ONE MAST ARM MOUNTED STREET NAME  
SIGN DETAIL.



TS SHT NO. 22

FILE NAME = D:\60110\sh1-cs-Rand-Ballard-08-500.dgn

SMODELNAME



USER NAME = FmowicM	DESIGNED - ZH	REVISED -
PLOT SCALE = 100.0000' / in.	DRAWN - ZH	REVISED -
PLOT DATE = 5/1/2024	CHECKED - DW	REVISED -
	DATE - 12/23/22	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

MAST ARM MOUNTED STREET NAME SIGNS  
AND SCHEDULE OF QUANTITIES  
RAND RD AND BALLARD RD

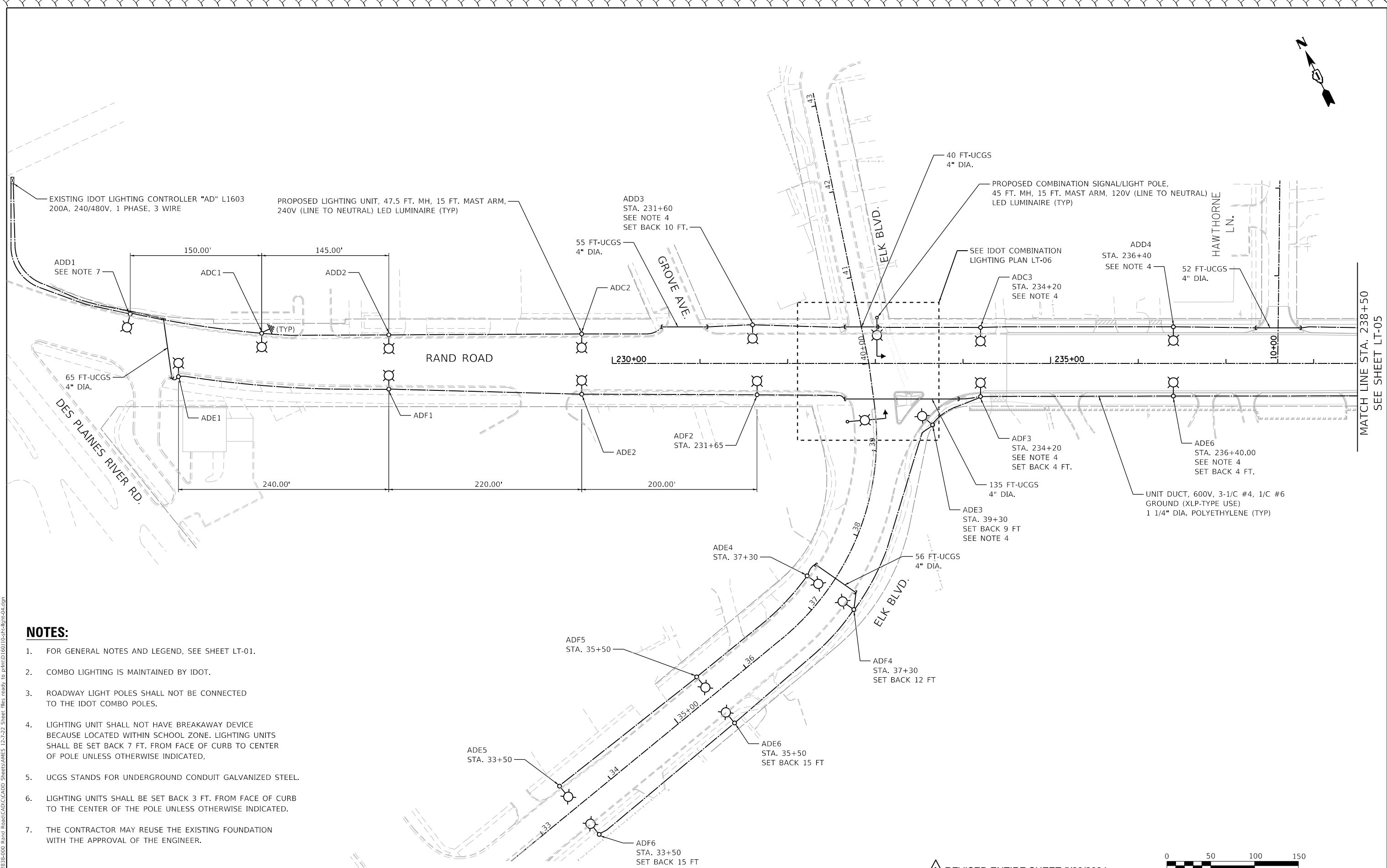
SCALE: SHEET 8 OF 8 SHEETS STA. TO STA.

F.A.U. RTE. 3523	SECTION 120-Y-B	COUNTY COOK	TOTAL SHEETS 267	SHEET NO. 134
				CONTRACT NO. 60110

ILLINOIS FED. AID PROJECT

REVISD ENTIRE SHEET 5/28/2024

TS 4160  
ECON 87



**NOTES:**

1. FOR GENERAL NOTES AND LEGEND, SEE SHEET LT-01.
2. COMBO LIGHTING IS MAINTAINED BY IDOT.
3. ROADWAY LIGHT POLES SHALL NOT BE CONNECTED TO THE IDOT COMBO POLES.
4. LIGHTING UNIT SHALL NOT HAVE BREAKAWAY DEVICE BECAUSE LOCATED WITHIN SCHOOL ZONE. LIGHTING UNITS SHALL BE SET BACK 7 FT. FROM FACE OF CURB TO CENTER OF POLE UNLESS OTHERWISE INDICATED.
5. UCGS STANDS FOR UNDERGROUND CONDUIT GALVANIZED STEEL.
6. LIGHTING UNITS SHALL BE SET BACK 3 FT. FROM FACE OF CURB TO THE CENTER OF THE POLE UNLESS OTHERWISE INDICATED.
7. THE CONTRACTOR MAY REUSE THE EXISTING FOUNDATION WITH THE APPROVAL OF THE ENGINEER.

REVISIONS: REVISED ENTIRE SHEET 5/28/2024



LT-04

**AMES Engineering, Inc.**  
 CONSULTING ENGINEERS  
 6330 Belmont Road, Suite 4B  
 Downers Grove, IL 60516

USER NAME = FinowicM	DESIGNED - BL	REVISED -
	DRAWN - MD	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED - MB	REVISED -
PLOT DATE = 5/2/2024	DATE - 03-15-2024	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PROPOSED ROADWAY LIGHTING PLAN  
 RAND ROAD**

SCALE: 1"=50' SHEET 1 OF 2 SHEETS STA. 230+00 TO STA. 238+50

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3523	120-Y-B	COOK	267	143
CONTRACT NO. 60J10				

ILLINOIS FED. AID PROJECT

MODEL: 340021.MXD  
 FILE: 340021\_20240502\_000 Rand Road/CADD Sheets/AMES 12-2-23\_Sheet\_files/ready\_to\_print/D16010-sh-light-04.dgn

Benchmark: BM-92 Chiseled square on sidewalk at S.W. corner of S.N. 016-0362, Elev. 635.39.

Existing Structure: S.N. 016-0362 was originally built as Rt. SAR 5, Section 1289-15D in 1928 and widened as F.A.U. 3523, Section 120-Y-RS(80) in 1982. The existing superstructure consists of three spans of cast-in-place concrete tee beams. The existing substructure consists of two solid wall concrete piers on spread footings and closed wall abutments on spread footings. The existing structure is 56'-6" wide, out-to-out, and 159'-0" long, back-to-back of abutments. The existing structure will be removed and replaced using staged construction.

Salvage: None.

### DESIGN SCOUR TABLE

Event/Limit	Design Scour Elevations (ft.)				Item 113
	W. Abut.	Pier 1	Pier 2	E. Abut.	
Q100	630.52	613.73	613.73	630.34	8
Q500	630.52	606.00	606.00	630.34	
Design	630.52	613.73	613.73	630.34	
Check	630.52	606.00	606.00	630.34	

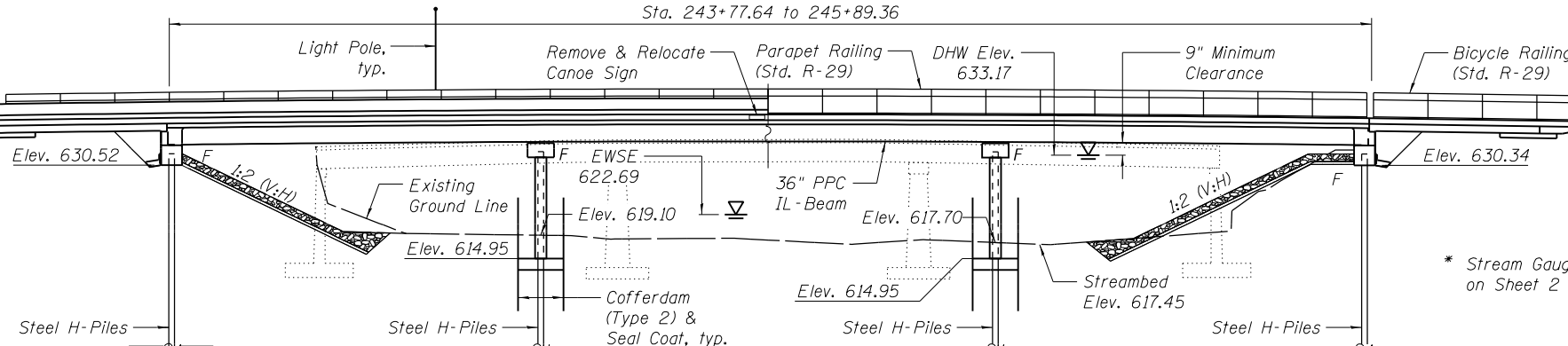
### WATERWAY INFORMATION

Drainage Area = 374.6 Sq. Mi.		Existing Low Grade Elev. 631.02 @ Sta. 249+50							
		Proposed Low Grade Elev. 631.86 @ Sta. 240+42.99							
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Prop.	Nat. H.W.E.	Head - Ft. Exist.	Prop.	Headwater El. Exist.	Prop.
Design	50	5728	1701	2548	633.17	0.25	0.10	633.42	633.27
Base	100	6193	1701	2670	633.78	0.05	0.04	633.83	633.82
Overtopping (Ex)	8	4160	1701		630.83	0.19		631.02	
Overtopping (Pr)	21	4780		2270	631.73		0.13		631.86
Max. Calc.	500	7256	1701	2846	635.10	0.18	0.13	635.28	635.23

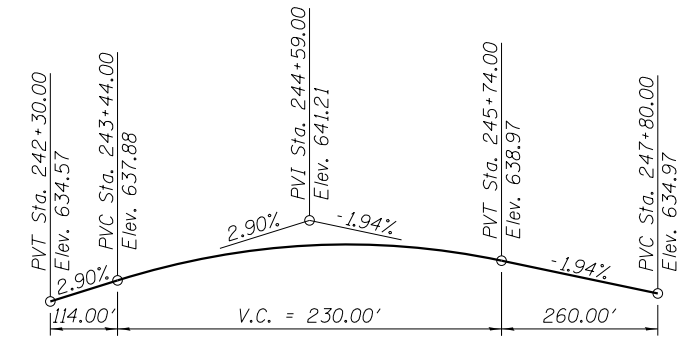
10 Year velocity through existing bridge = 2.60 ft/s  
 10 Year velocity through proposed bridge = 2.00 ft/s  
 2 Year flow through bridge = 3,150 C.F.S.

### CURVE DATA

P.I. Sta. = 249+67.15  
 $\Delta = 42^\circ 59' 15''$  (RT)  
 $D = 6^\circ 01' 52''$   
 $R = 950.00'$   
 $T = 374.10'$   
 $L = 712.76'$   
 $E = 71.00'$   
 $e = NC$   
 P.C. Sta. = 245+93.06  
 P.T. Sta. = 253+05.82

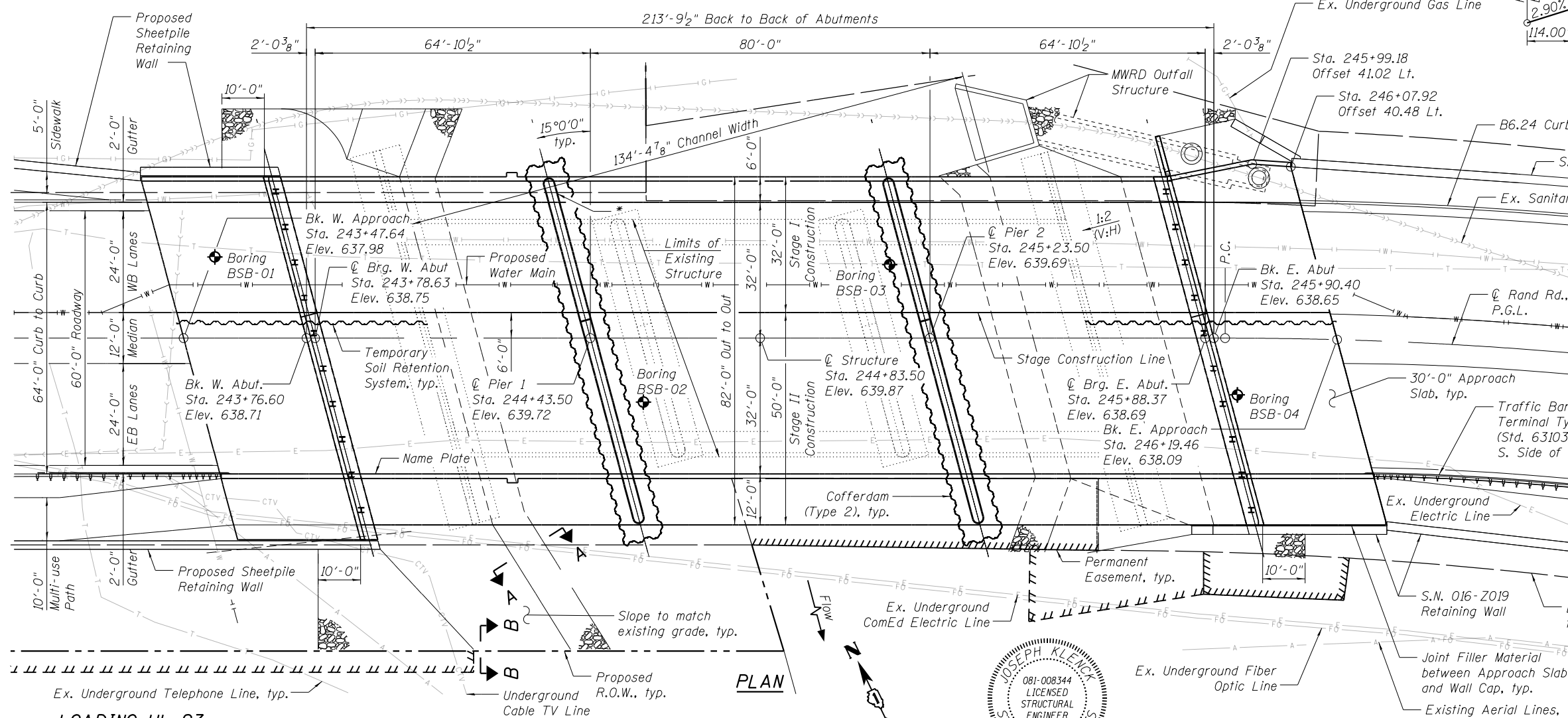


### ELEVATION



### PROFILE GRADE

(along Rand Road)

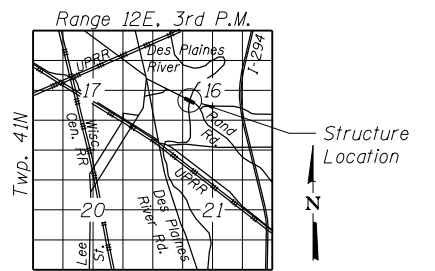


### PLAN

**APPROVED**  
 For Structural Adequacy Only  
 Joseph Klensch  
 Engineer of Bridges & Structures

STATION 244+83.50  
 BUILT 20... BY  
 STATE OF ILLINOIS  
 F.A.U. RT. 3523 SEC. 120Y-B  
 LOADING HL-93  
 STRUCTURE NO. 016-0379

**NAME PLATE**  
 See Std. 515001



### LOCATION SKETCH

REVISD ENTIRE SHEET 5/28/2024

### GENERAL PLAN AND ELEVATION

RAND ROAD OVER DES PLAINES RIVER

F.A.U. RT. 3523 - SEC. 120Y-B

COOK COUNTY

STA. 244+83.50

STRUCTURE NO. 016-0379

**LOADING HL-93**  
 Allow 50#/sq. ft. for future wearing surface.  
 Proposed Water Main = 75 plf

### DESIGN SPECIFICATIONS

2020 AASHTO LRFD Bridge Design, 9th Edition

### DESIGN STRESSES

#### FIELD UNITS

f'c = 3,500 psi  
 f'c = 4,000 psi (Superstructure Concrete)  
 fy = 60,000 psi (Reinforcement)

### PRECAST PRESTRESSED UNITS

f'c = 8,500 psi  
 f'ci = 6,500 psi  
 fpu = 270,000 psi (0.6" dia. low-lax strands)  
 fpbt = 202,300 psi (0.6" dia. low-lax strands)

BY: *Joseph Klensch*  
 DATE SIGNED: 01/24/2024  
 LICENSE EXPIRES: 11/30/2024

### SEISMIC DATA

Seismic Performance Zone (SPZ) = 1  
 Design Spectral Acceleration at 1.0 sec. (S<sub>D1</sub>) = 0.084g  
 Design Spectral Acceleration at 0.2 sec. (S<sub>D5</sub>) = 0.144g  
 Soil Site Class = D



USER NAME = EtfzWleE	DESIGNED - JIK	12-15-2023	REVISED
PLOT DATE = 3/18/2024	CHECKED - JGT	01-05-2024	REVISED
	DRAWN - OR	12-15-2023	REVISED
	CHECKED - JIK	01-05-2024	REVISED

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

STRUCTURAL PLANS  
 GENERAL PLAN AND ELEVATION - STRUCTURE NO. 016-0379

SHEET NO. 1 OF 34 SHEETS

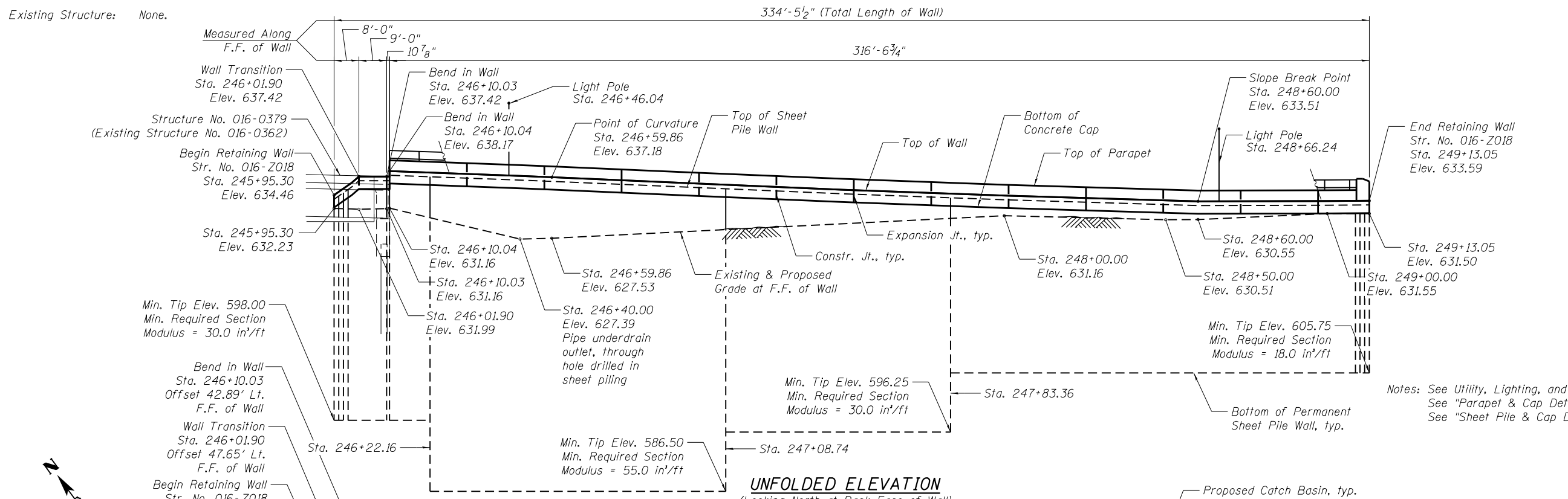
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3523	120Y-B	COOK	267	155
CONTRACT NO. 60J10				

ILLINOIS FED. AID PROJECT

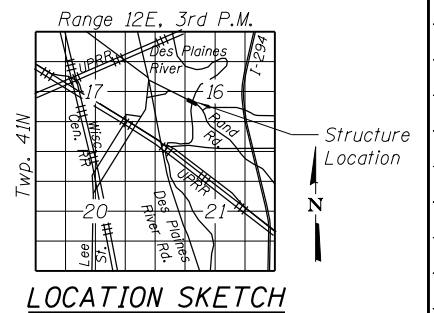
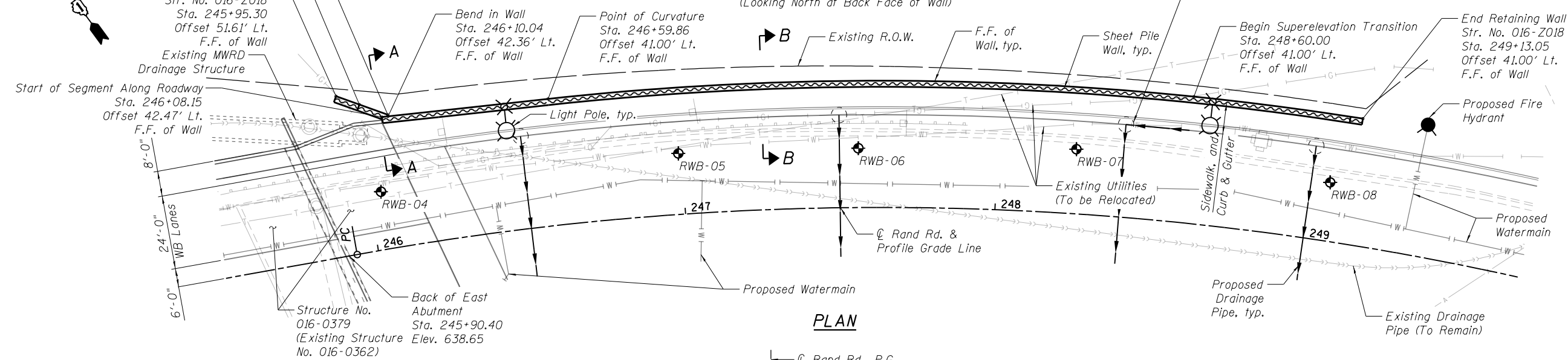


Benchmark: BM-92 Chiseled square on sidewalk at S.W. corner of S.N. 016-0362, Elev. 635.39.

Existing Structure: None.



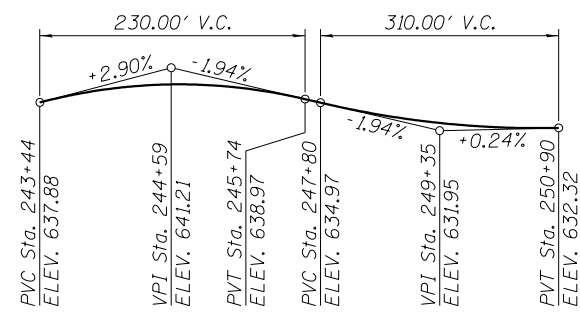
Notes: See Utility, Lighting, and Drainage Plans for additional information.  
See "Parapet & Cap Details" for parapet joint spacing.  
See "Sheet Pile & Cap Details" for Section Views A-A & B-B.



**CURVE DATA**

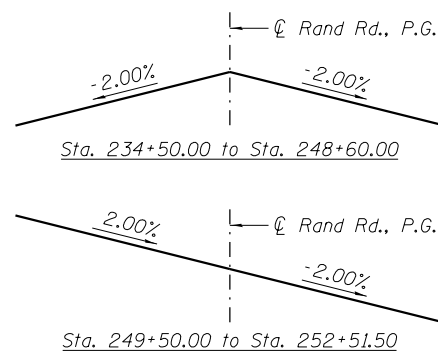
( $\text{\textcircled{C}}$  of Rand Rd.)

P.I. Sta. = 249+67.15  
 $\Delta = 42^\circ 59' 15''$  (RT)  
 $D = 6^\circ 01' 52''$   
 $R = 950.00'$   
 $T = 374.10'$   
 $L = 712.76'$   
 $E = 71.00'$   
P.C. Sta. = 245+93.06  
P.T. Sta. = 253+05.82



**PROFILE GRADE**

(Along  $\text{\textcircled{C}}$  of Rand Rd.)



**SUPERELEVATION TRANSITION**

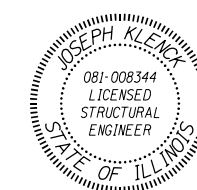
RAND ROAD  
(Looking Upstation)

**DESIGN SPECIFICATIONS**  
 2012 AASHTO LRFD Bridge Design Specifications, 6th Edition with 2013 Interims

**DESIGN STRESSES**  
 FIELD UNITS

$f'_c = 3,500$  psi  
 $f_y = 60,000$  psi (Reinforcement)  
 $f_y = 50,000$  psi (Sheet Pile)  
 $f_u = 60,000$  psi (Shear Studs)

BY: *Joseph Kleink*  
 DATE SIGNED: 01/24/2024  
 LICENSE EXPIRES: 11/30/2024



**APPROVED**  
 For Structural Adequacy Only  
*Joseph Kleink*  
 Engineer of Bridges & Structures

**GENERAL PLAN AND ELEVATION**  
**RAND ROAD**  
**RTE. FAU 3523 - SEC. 120Y-B**  
**COOK COUNTY**  
**STATION 245+95.30 TO 249+13.05**  
**STRUCTURE NO. 016-2018**

REVISD ENTIRE SHEET 5/28/2024



USER NAME = Etw10e	DESIGNED - TLR 05-15-2014	REVISED
PLOT DATE = 3/18/2024	CHECKED - LM 05-27-2014	REVISED
	DRAWN - OR 12-01-2023	REVISED
	CHECKED - JIK 01-05-2024	REVISED

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION  
 STRUCTURE NO. 016-2018

SHEET NO. 1 OF 8 SHEETS

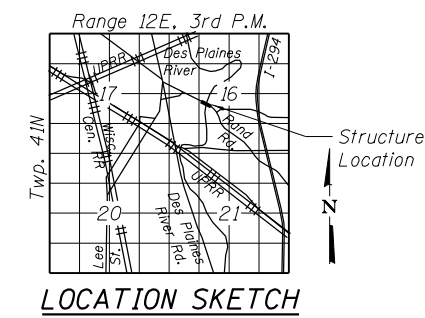
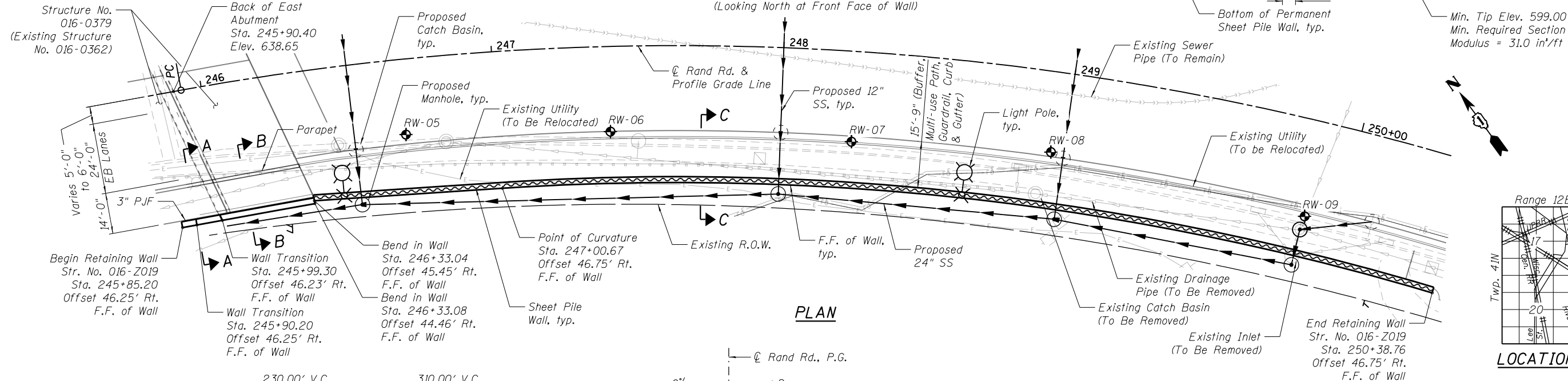
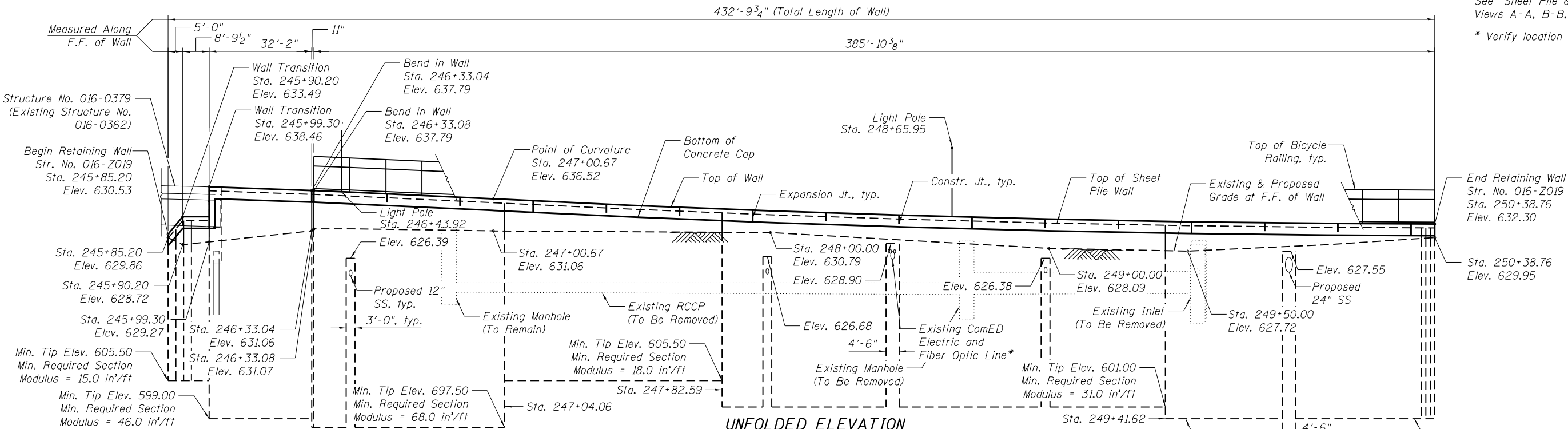
F.A.U. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3523	120Y-B	COOK	267	189
CONTRACT NO. 60J10				

ILLINOIS FED. AID PROJECT

Benchmark: BM-92 Chiseled square on sidewalk at S.W. corner of S.N. 016-0362, Elev. 635.39.

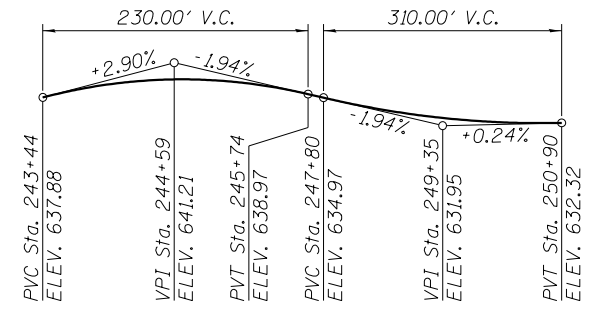
Existing Structure: None.

Notes: See Utility, Lighting, and Drainage Plans for additional information.  
See "Sheet Pile & Cap Details" for Section Views A-A, B-B, & C-C.  
\* Verify location in field

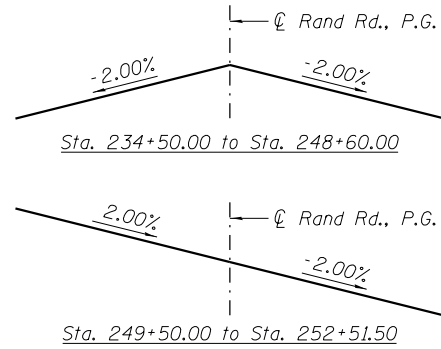


**CURVE DATA**

( $\text{\textcircled{C}}$  of Rand Rd.)  
 P.I. Sta. = 249+67.15  
 $\Delta = 42^\circ 59' 15''$  (RT)  
 $D = 6^\circ 01' 52''$   
 $R = 950.00'$   
 $T = 374.10'$   
 $L = 712.76'$   
 $E = 71.00'$   
 P.C. Sta. = 245+93.06  
 P.T. Sta. = 253+05.82



**PROFILE GRADE**  
(Along  $\text{\textcircled{C}}$  Rand Rd.)

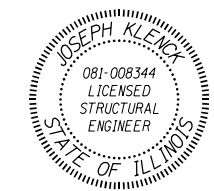


**SUPERELEVATION TRANSITION**  
RAND ROAD  
(Looking Upstation)

**DESIGN SPECIFICATIONS**  
 2012 AASHTO LFRD Bridge Design Specifications, 6th Edition with 2013 Interims

**DESIGN STRESSES**  
FIELD UNITS

$f'_c = 3,500$  psi  
 $f_y = 60,000$  psi (Reinforcement)  
 $f_y = 50,000$  psi (Sheet Pile)  
 $f_u = 60,000$  psi (Shear Studs)



BY: Joseph Kleck  
 DATE SIGNED: 01/24/2024  
 LICENSE EXPIRES: 11/30/2024

**APPROVED**  
 For Structural Adequacy Only  
Joseph Kleck  
 Engineer of Bridges & Structures

**GENERAL PLAN & ELEVATION**  
**RAND ROAD**  
**RTE. FAU 3523 - SEC. 120Y-B**  
**COOK COUNTY**  
**STATION 245+85.20 TO 250+38.76**  
**STRUCTURE NO. 016-Z019**

REVISED ENTIRE SHEET 5/28/2024



USER NAME = Etwiloe	DESIGNED - TLR 05-15-2014	REVISED
PLOT DATE = 3/18/2024	CHECKED - LM 05-27-2014	REVISED
	DRAWN - OR 12-01-2023	REVISED
	CHECKED - JIK 01-05-2024	REVISED

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

**GENERAL PLAN & ELEVATION**  
**STRUCTURE NO. 016-Z019**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3523	120Y-B	COOK	267	197
CONTRACT NO. 60J10				

SHEET NO. 1 OF 8 SHEETS

ILLINOIS FED. AID PROJECT



Benchmark: BM-92 Chiseled square on sidewalk at S.W. corner of S.N. 016-0362, Elev. 635.39.

Existing Structure: None.

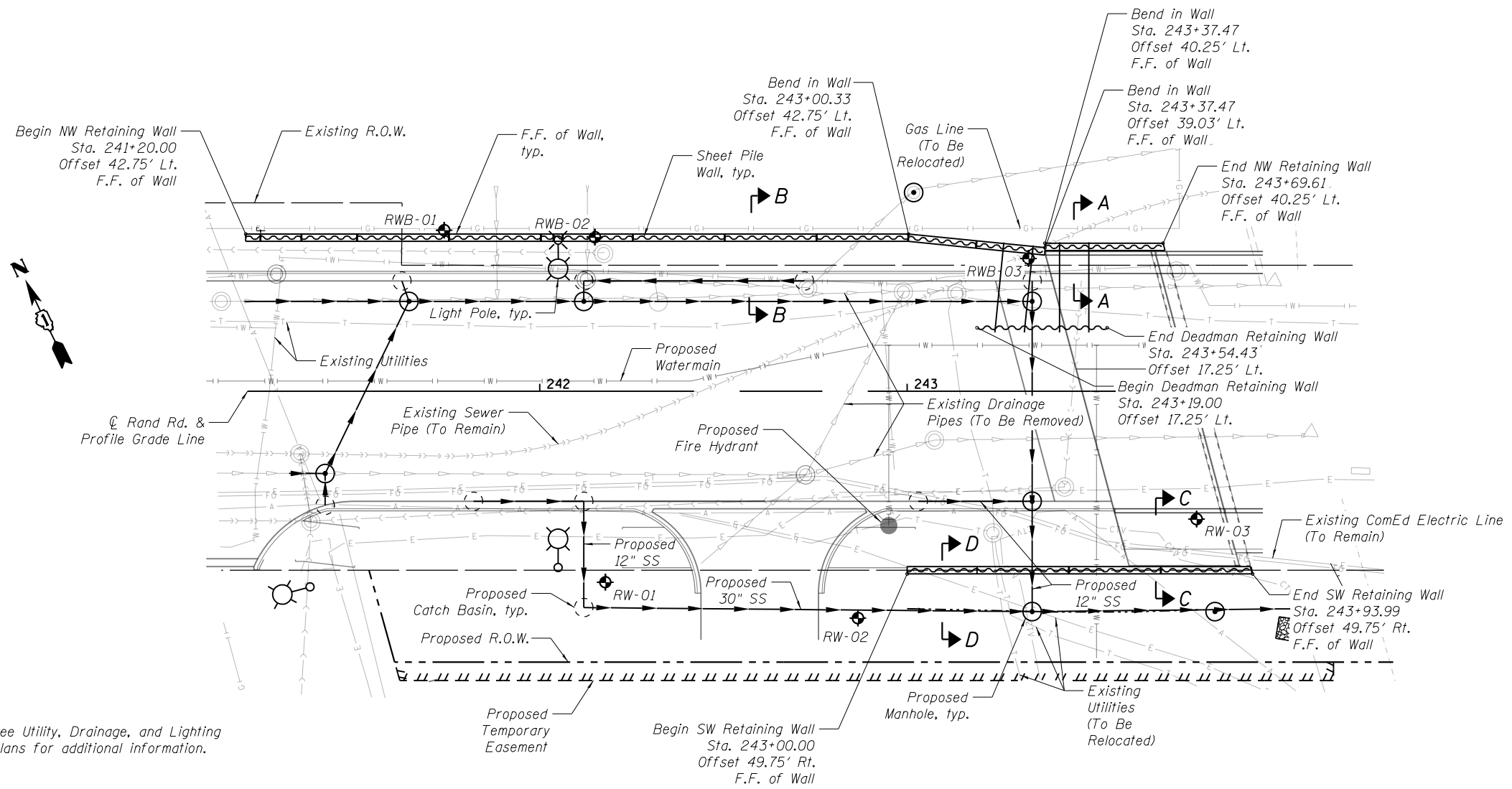
**INDEX OF SHEETS**

- 1 - General Plan
- 2 - Elevations
- 3 - Sheet Pile & Cap Details (1 of 4)
- 4 - Sheet Pile & Cap Details (2 of 4)
- 5 - Sheet Pile & Cap Details (3 of 4)
- 6 - Sheet Pile & Cap Details (4 of 4)
- 7 - Aluminum Railing, Type L (Base Sheet R-20)
- 8 - Bicycle Railing (Base Sheet R-29)
- 9 - Boring Logs (1 of 3)
- 10 - Boring Logs (2 of 3)
- 11 - Boring Logs (3 of 3)

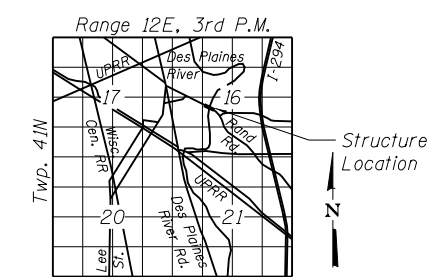
**TOTAL BILL OF MATERIAL**

ITEM	UNIT	TOTAL
Structure Excavation	Cu. Yd.	86
Concrete Structures	Cu. Yd.	51.0
Concrete Superstructure	Cu. Yd.	17.9
Protective Coat	Sq. Yd.	126
Stud Shear Connectors	Each	554
Reinforcement Bars, Epoxy Coated	Pound	7,670
Aluminum Railing, Type L	Foot	214
Bicycle Railing	Foot	59
Permanent Sheet Piling	Sq. Ft.	11,516
Granular Backfill for Structures	Cu. Yd.	49
Geocomposite Wall Drain	Sq. Yd.	59
Pipe Underdrains for Structures 4"	Foot	344
Tie Rods	Each	4

\* Indicates Pay Item is Governed by a Special Provision



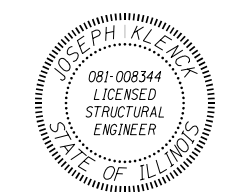
Note: See Utility, Drainage, and Lighting Plans for additional information.



**LOCATION SKETCH**

**PLAN**

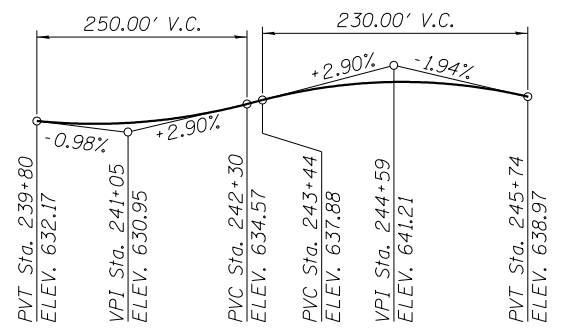
**APPROVED**  
For Structural Adequacy Only  
*Joseph Klewick*  
Engineer of Bridges & Structures



BY: *Joseph Klewick*  
DATE SIGNED: 01/24/2024  
LICENSE EXPIRES: 11/30/2024

**GENERAL NOTES**

1. Reinforcement bars designated (E) shall be epoxy coated.
2. See "Sheet Pile & Cap Details (1 of 4)" for Section Views A-A, B-B, C-C, & D-D.
3. Slipforming of the parapet is not allowed.
4. Protective coat shall be applied to the top face of cap and the top and traffic face of parapet.



**PROFILE GRADE**  
(Along Rand Rd.)

**DESIGN SPECIFICATIONS**

2012 AASHTO LRFD Bridge Design Specifications, 6th Edition with 2013 Iterims

**DESIGN STRESSES**

**FIELD UNITS**

- f'c = 3,500 psi
- fy = 36,000 psi (Channels & Plates)
- fy = 50,000 psi (Sheet Pile)
- fy = 60,000 psi (Reinforcement)
- fu = 60,000 psi (Shear Studs)
- fu = 75,000 psi (Tie Rods)

**GENERAL PLAN**  
**RAND ROAD**  
**RTE. FAU 3523 - SEC. 120Y-B**  
**COOK COUNTY**  
**STATION 241+20.00 TO 243+93.99**  
**WESTERN RETAINING WALLS**

1 REVISED ENTIRE SHEET 5/28/2024



USER NAME = Etwz10e	DESIGNED - TLR 05-15-2014	REVISED
PLOT DATE = 3/18/2024	CHECKED - LM 05-27-2014	REVISED
	DRAWN - OR 12-01-2023	REVISED
	CHECKED - JIK 01-05-2024	REVISED

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

**GENERAL PLAN**  
**WESTERN RETAINING WALLS**

SHEET NO. 1 OF 11 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3523	120Y-B	COOK	267	205
CONTRACT NO. 60J10				

ILLINOIS FED. AID PROJECT













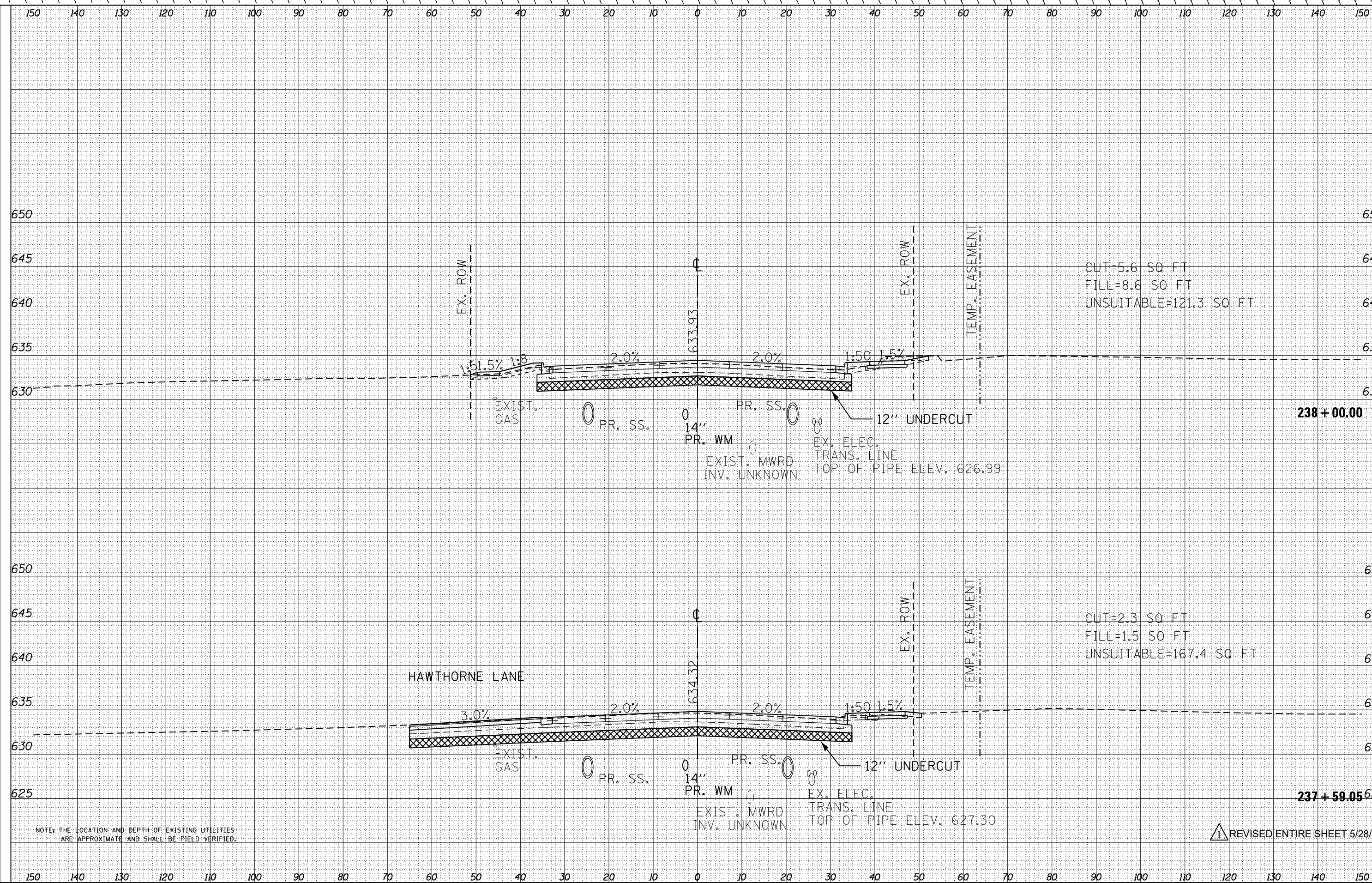


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BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	
FINAL SURVEY	
NOTE BOOK	
NO.	
CHECKED	
NO.	



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

NOTE: THE LOCATION AND DEPTH OF EXISTING UTILITIES ARE APPROXIMATE AND SHALL BE FIELD VERIFIED.



CUT=5.6 SQ FT  
 FILL=8.6 SQ FT  
 UNSUITABLE=121.3 SQ FT

CUT=2.3 SQ FT  
 FILL=1.5 SQ FT  
 UNSUITABLE=167.4 SQ FT

REVISOR'S MARK: REVISED ENTIRE SHEET 5/28/2024



USER NAME = FinowicM	DESIGNED - MXF	REVISED -
PLOT SCALE = 20.0000' / in.	DRAWN - MJM	REVISED -
PLOT DATE = 4/24/2024	CHECKED - JRS	REVISED -
	DATE - 01/10/2024	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

RAND ROAD CROSS SECTIONS

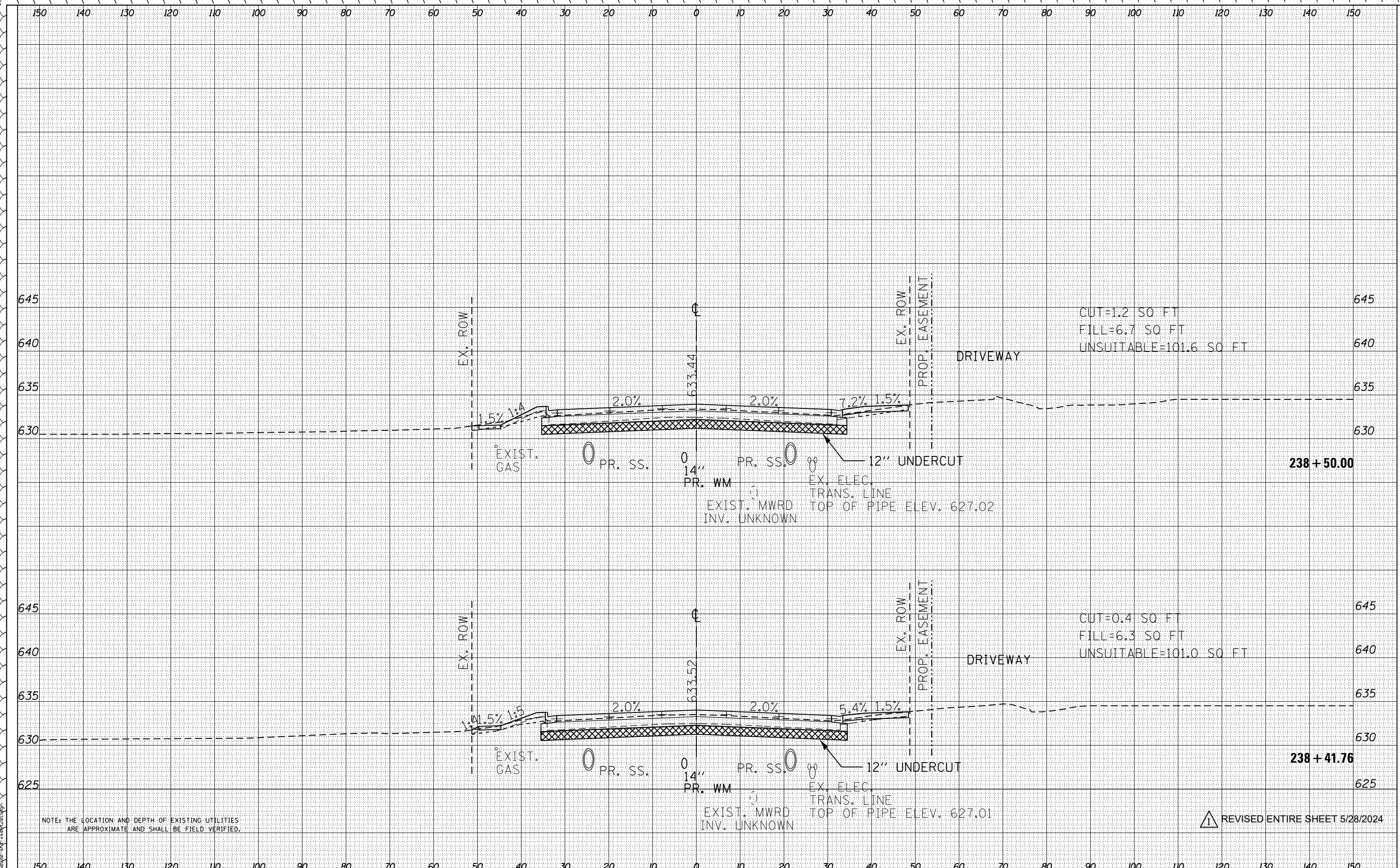
SCALE: 1"=10'H/1"=5'V SHEET 7 OF 25 SHEETS STA. 237+59.05 TO STA. 238+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3523	120-Y-B	COOK	267	249
			CONTRACT NO. 60J10	
ILLINOIS FED. AID PROJECT				



DATE	
BY	
FINAL SURVEY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
AREAS CHECKED	



NOTE: THE LOCATION AND DEPTH OF EXISTING UTILITIES ARE APPROXIMATE AND SHALL BE FIELD VERIFIED.

REVISD ENTIRE SHEET 5/28/2024



USER NAME = FinowicM	DESIGNED - MXF	REVISED -
PLOT SCALE = 20.0000' / in.	DRAWN - MJM	REVISED -
PLOT DATE = 4/24/2024	CHECKED - JRS	REVISED -
	DATE - 01/10/2024	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

RAND ROAD CROSS SECTIONS

SCALE: 1"=10'H/1"=5'V SHEET 8 OF 25 SHEETS STA. 238+41.76 TO STA. 238+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3523	120-Y-B	COOK	267	250
CONTRACT NO. 60J10				
ILLINOIS FED. AID PROJECT				

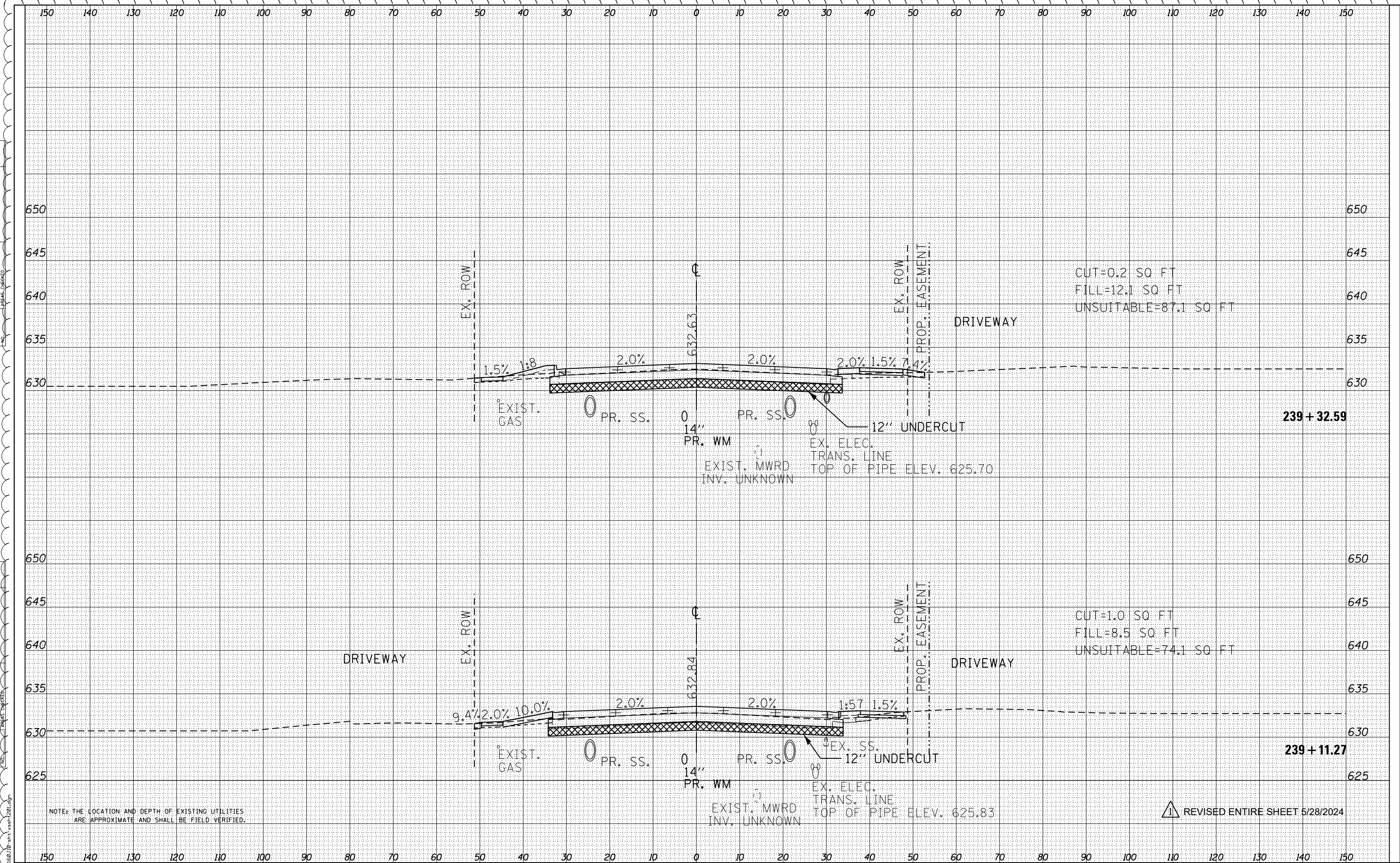




DATE	
BY	
FINAL SURVEY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	

1

DATE	
BY	
ORIGINAL SURVEY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	



NOTE: THE LOCATION AND DEPTH OF EXISTING UTILITIES ARE APPROXIMATE AND SHALL BE FIELD VERIFIED.

REVISD ENTIRE SHEET 5/28/2024



USER NAME = FmowicM	DESIGNED - MXF	REVISED -
PLOT SCALE = 20.0000' / in.	DRAWN - MJM	REVISED -
PLOT DATE = 4/24/2024	CHECKED - JRS	REVISED -
	DATE - 01/10/2024	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

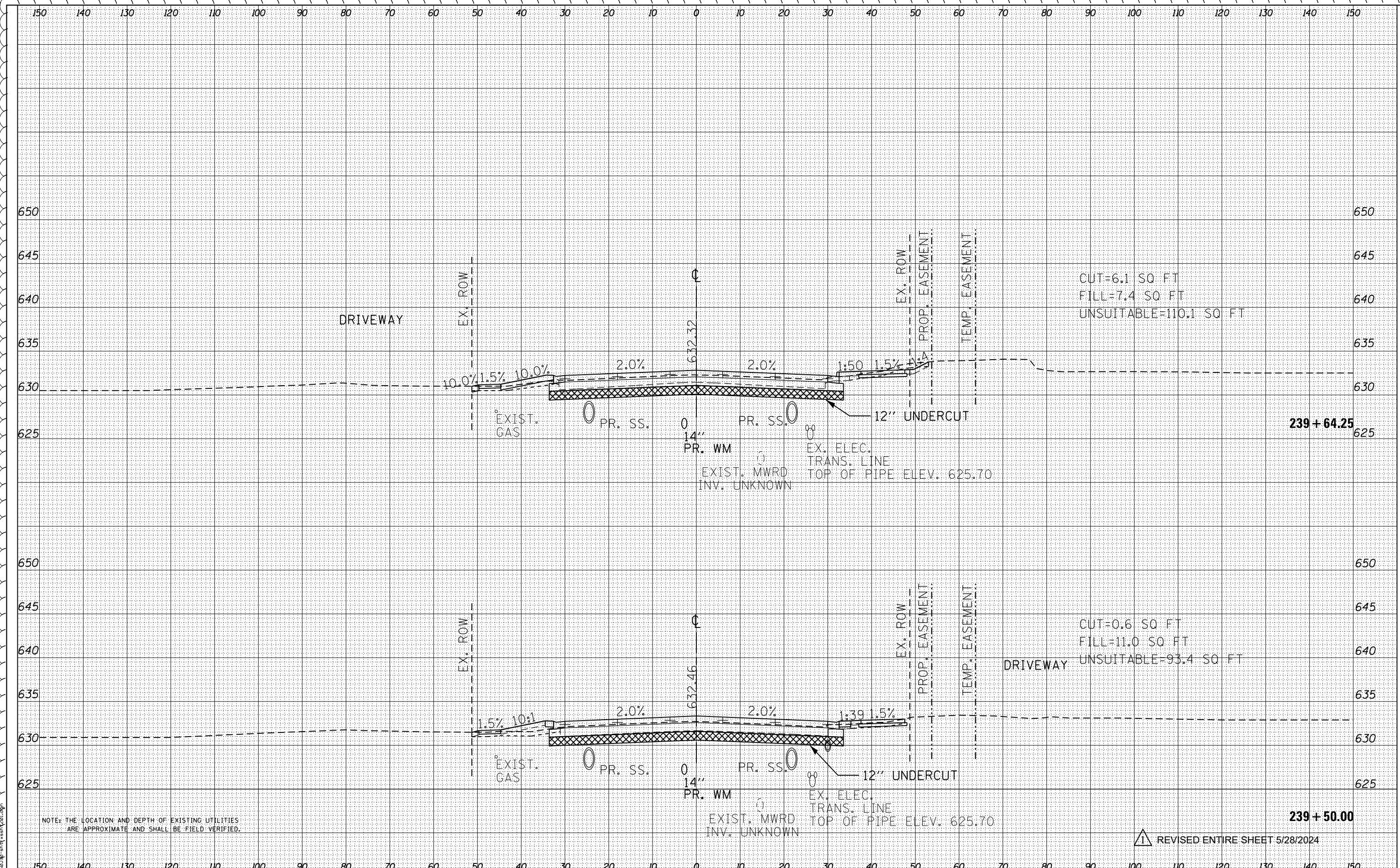
RAND ROAD CROSS SECTIONS

SCALE: 1"=10'H/1"=5'V SHEET 10 OF 25 SHEETS STA. 239+11.27 TO STA. 239+32.59

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3523	120-Y-B	COOK	267	252
CONTRACT NO. 60J10				
ILLINOIS FED. AID PROJECT				

DATE
BY
FINAL SURVEY
SURVEYED
PLOTTED
TEMPLATE
NO. AREAS CHECKED

DATE
BY
ORIGINAL SURVEY
SURVEYED
PLOTTED
TEMPLATE
NO. AREAS CHECKED



CUT=6.1 SQ FT  
 FILL=7.4 SQ FT  
 UNSUITABLE=110.1 SQ FT

CUT=0.6 SQ FT  
 FILL=11.0 SQ FT  
 UNSUITABLE=93.4 SQ FT

NOTE: THE LOCATION AND DEPTH OF EXISTING UTILITIES ARE APPROXIMATE AND SHALL BE FIELD VERIFIED.

REVISOR'S MARK:  $\Delta$  REVISED ENTIRE SHEET 5/28/2024



USER NAME = FinowicM	DESIGNED - MXF	REVISED -
PLOT SCALE = 20.0000' / in.	DRAWN - MJM	REVISED -
PLOT DATE = 4/24/2024	CHECKED - JRS	REVISED -
	DATE - 01/10/2024	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**RAND ROAD CROSS SECTIONS**

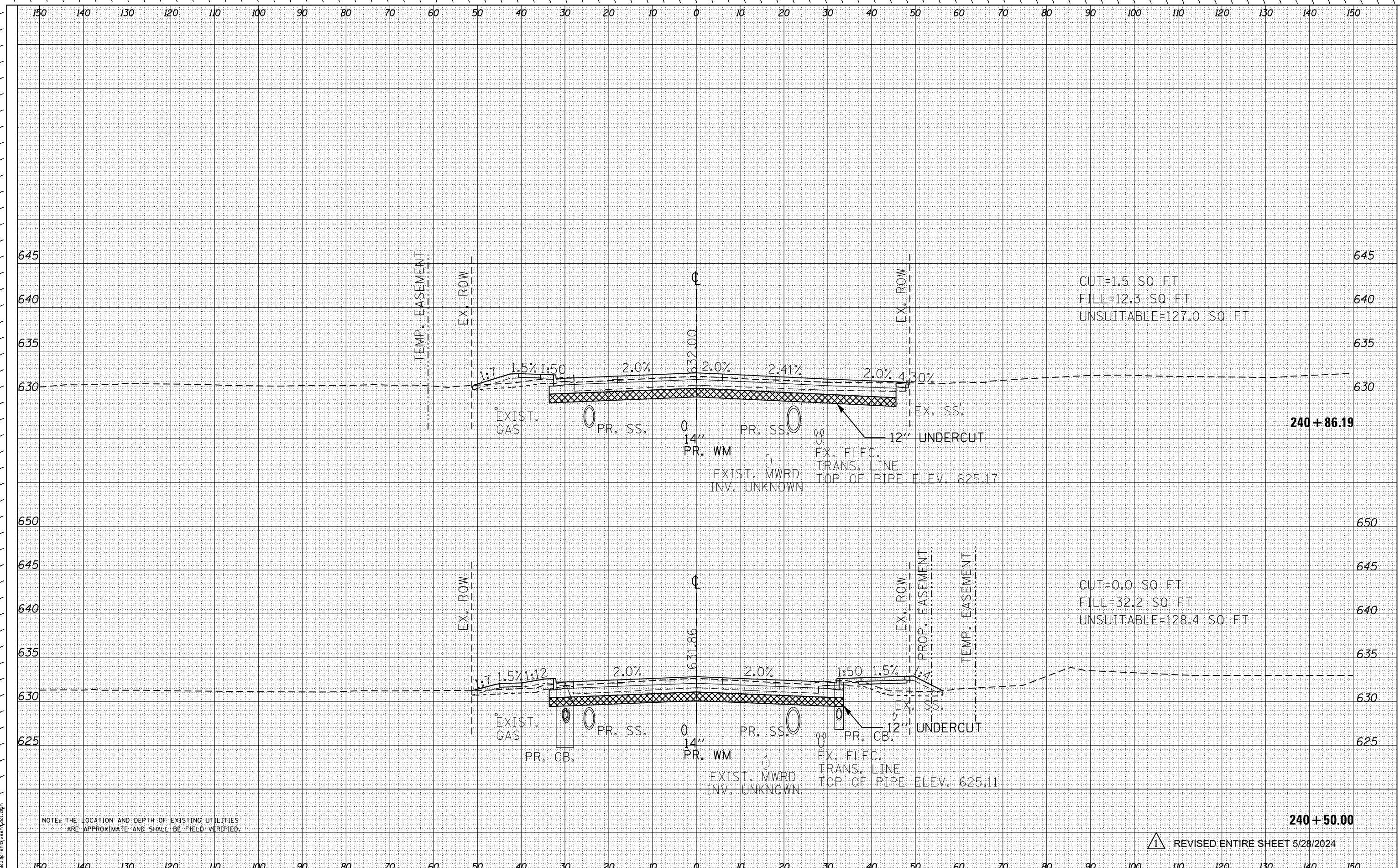
SCALE: 1"=10'H/1"=5'V SHEET 11 OF 25 SHEETS STA. 239+50.00 TO STA. 239+64.25

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3523	120-Y-B	COOK	267	253
CONTRACT NO. 60J10				
ILLINOIS FED. AID PROJECT				



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

BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 ORIGINAL SURVEY NO. \_\_\_\_\_  
 SURVEYED \_\_\_\_\_  
 PLOTTED \_\_\_\_\_  
 TEMPLATE \_\_\_\_\_  
 AREAS CHECKED \_\_\_\_\_



NOTE: THE LOCATION AND DEPTH OF EXISTING UTILITIES ARE APPROXIMATE AND SHALL BE FIELD VERIFIED.

REVISOR'S MARK: REVISED ENTIRE SHEET 5/28/2024



USER NAME = FinowicM	DESIGNED - MXF	REVISED -
PLOT SCALE = 20.0000' / in.	DRAWN - MJM	REVISED -
PLOT DATE = 4/24/2024	CHECKED - JRS	REVISED -
	DATE - 01/10/2024	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

RAND ROAD CROSS SECTIONS

SCALE: 1"=10'H/1"=5'V SHEET 13 OF 25 SHEETS STA. 240+50.00 TO STA. 240+86.19

F.A.U. RTE. 3523	SECTION 120-Y-B	COUNTY COOK	TOTAL SHEETS 267	SHEET NO. 255
CONTRACT NO. 60J10				

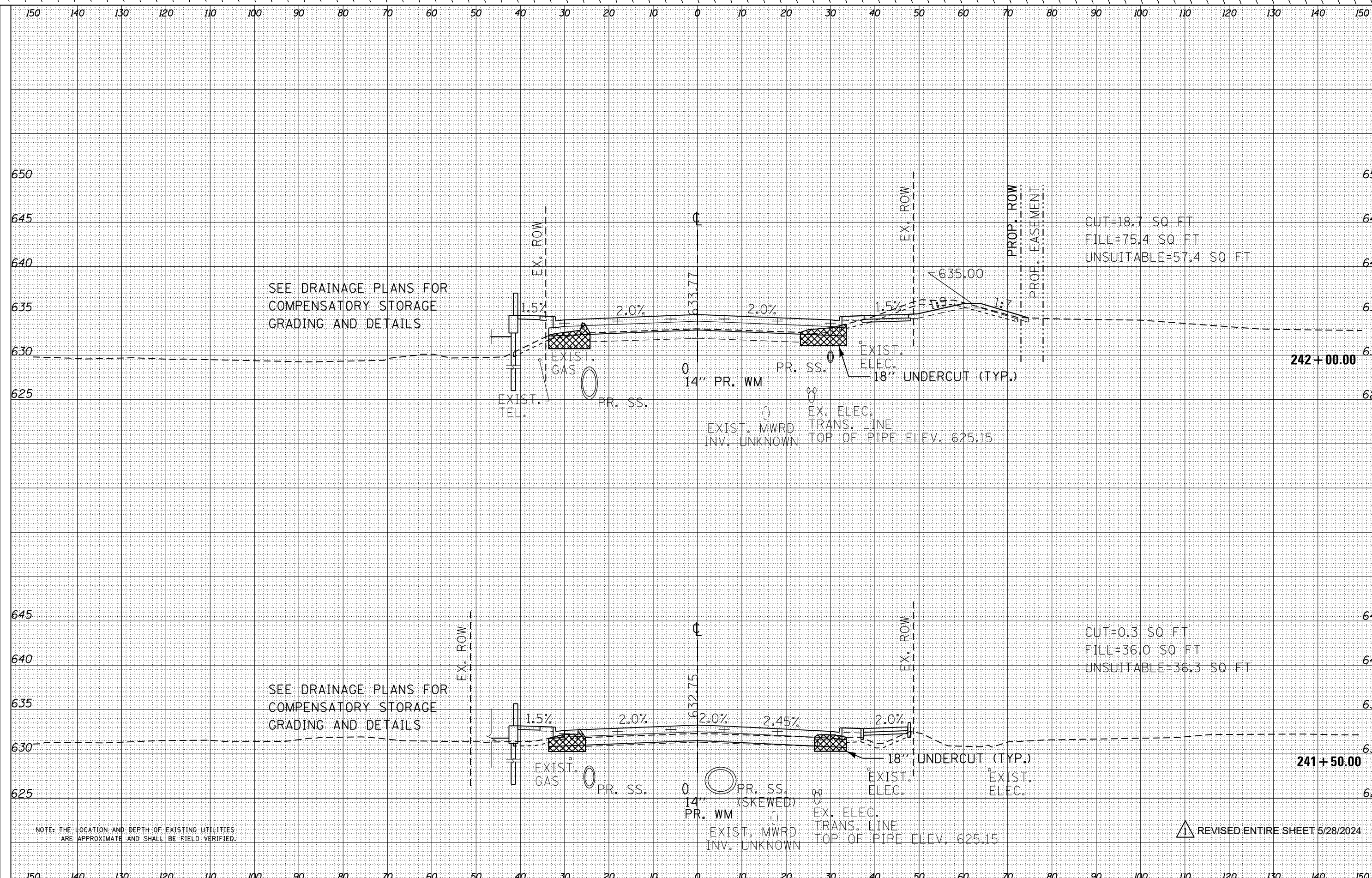
ILLINOIS FED. AID PROJECT





DATE	
BY	
FINAL SURVEY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	



SEE DRAINAGE PLANS FOR COMPENSATORY STORAGE GRADING AND DETAILS

SEE DRAINAGE PLANS FOR COMPENSATORY STORAGE GRADING AND DETAILS

CUT=18.7 SQ FT  
FILL=75.4 SQ FT  
UNSUITABLE=57.4 SQ FT

CUT=0.3 SQ FT  
FILL=36.0 SQ FT  
UNSUITABLE=36.3 SQ FT

NOTE: THE LOCATION AND DEPTH OF EXISTING UTILITIES ARE APPROXIMATE AND SHALL BE FIELD VERIFIED.

REVISD ENTIRE SHEET 5/28/2024



USER NAME = FinowicM	DESIGNED - MXF	REVISED -
PLOT SCALE = 20.0000' / in.	DRAWN - MJM	REVISED -
PLOT DATE = 4/24/2024	CHECKED - JRS	REVISED -
	DATE - 01/10/2024	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

RAND ROAD CROSS SECTIONS

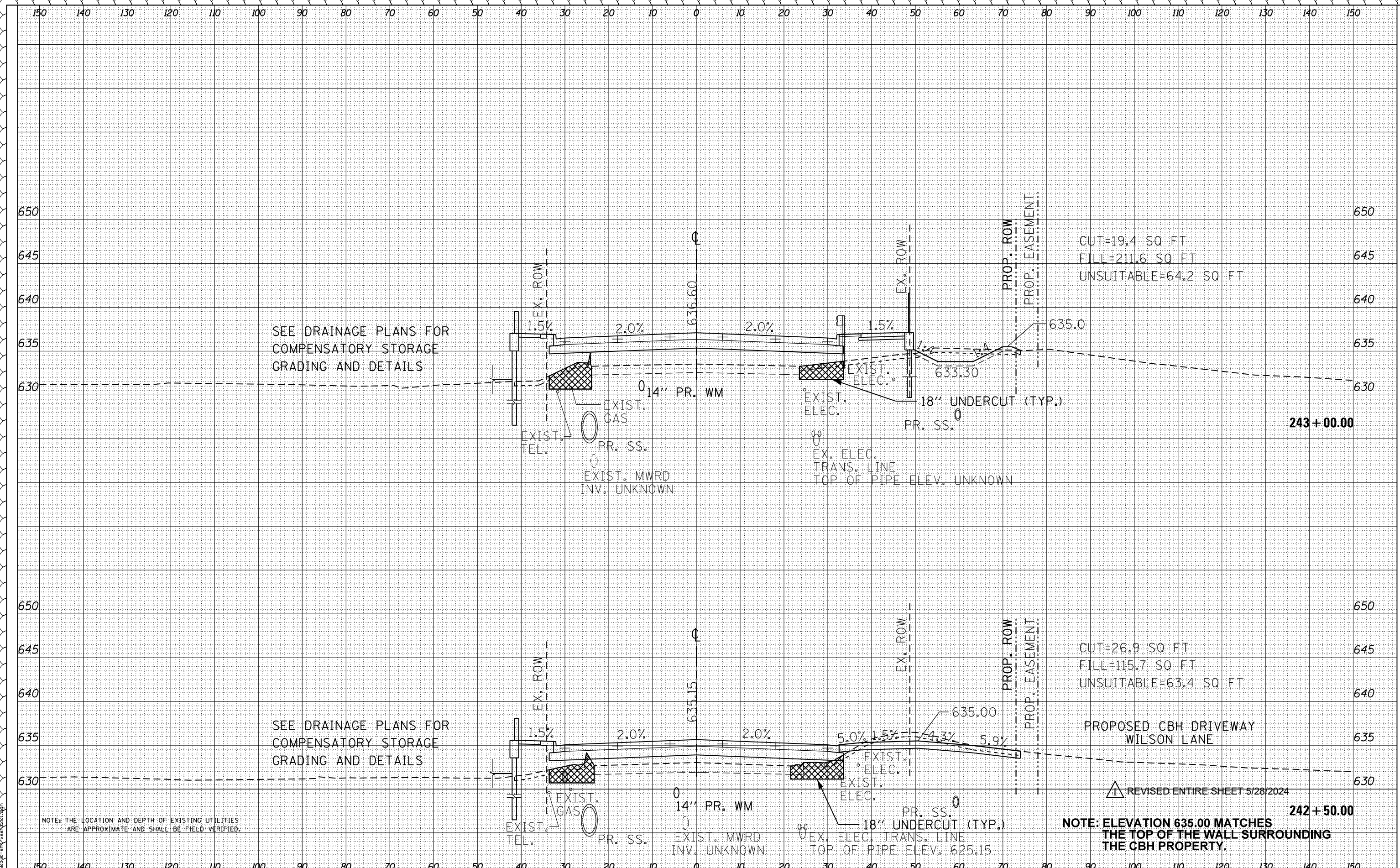
SCALE: 1"=10'H/1"=5'V SHEET 15 OF 25 SHEETS STA. 241+50.00 TO STA. 242+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3523	120-Y-B	COOK	267	257
CONTRACT NO. 60J10				
ILLINOIS FED. AID PROJECT				



DATE	
BY	
FINAL SURVEY	
SURVEYED	
PLOTTED	
TEMPLATE	
NO. AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY	
SURVEYED	
PLOTTED	
TEMPLATE	
NO. AREAS CHECKED	



SEE DRAINAGE PLANS FOR  
COMPENSATORY STORAGE  
GRADING AND DETAILS

SEE DRAINAGE PLANS FOR  
COMPENSATORY STORAGE  
GRADING AND DETAILS

NOTE: THE LOCATION AND DEPTH OF EXISTING UTILITIES  
ARE APPROXIMATE AND SHALL BE FIELD VERIFIED.

NOTE: ELEVATION 635.00 MATCHES  
THE TOP OF THE WALL SURROUNDING  
THE CBH PROPERTY.



USER NAME = FinowicM	DESIGNED - MXF	REVISED -
PLOT SCALE = 20.0000' / in.	DRAWN - MJM	REVISED -
PLOT DATE = 4/24/2024	CHECKED - JRS	REVISED -
	DATE - 01/10/2024	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

RAND ROAD CROSS SECTIONS

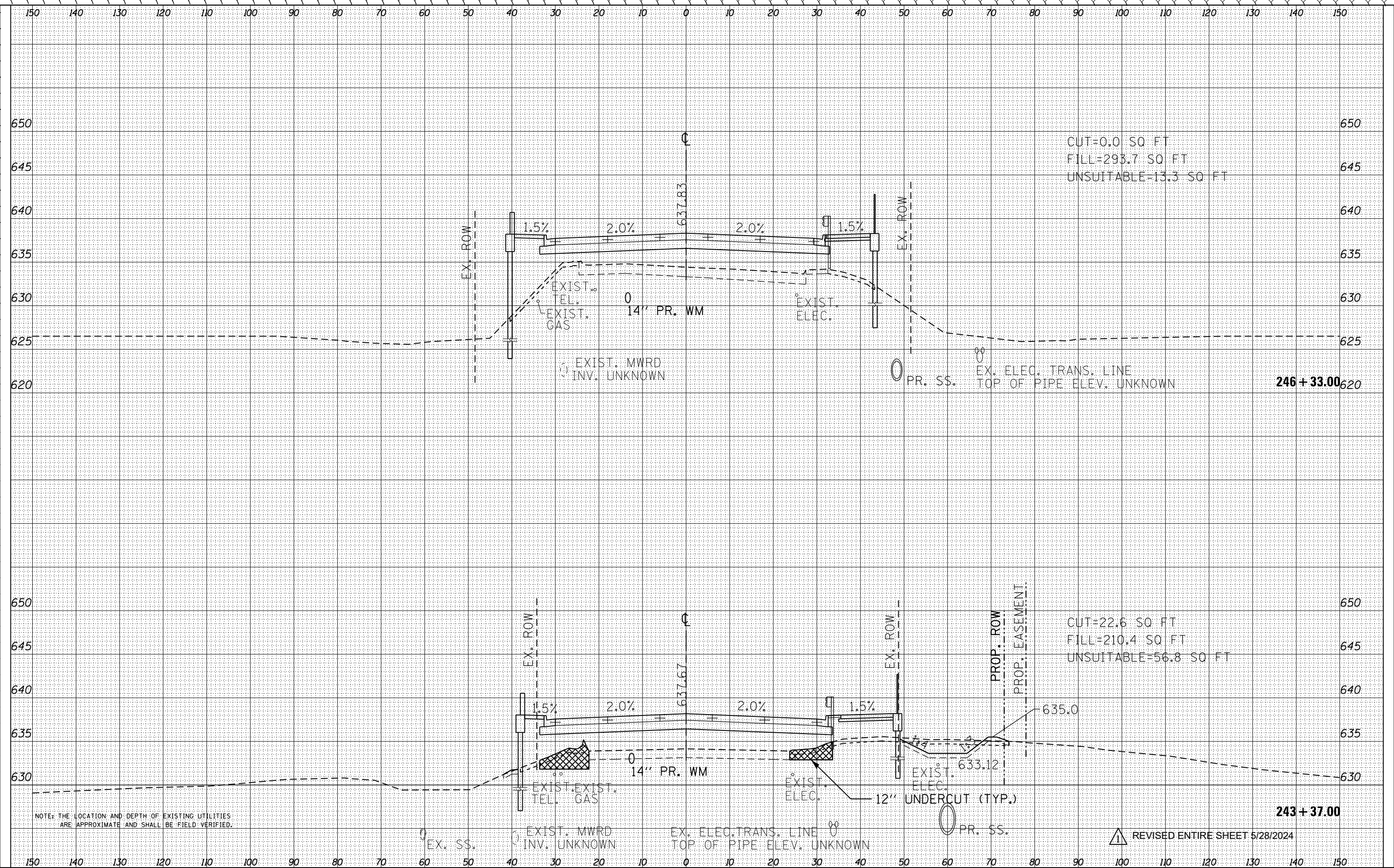
SCALE: 1"=10'H/1"=5'V SHEET 16 OF 25 SHEETS STA. 242+50.00 TO STA. 243+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3523	120-Y-B	COOK	267	258
CONTRACT NO. 60J10				

ILLINOIS FED. AID PROJECT

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

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



NOTE: THE LOCATION AND DEPTH OF EXISTING UTILITIES ARE APPROXIMATE AND SHALL BE FIELD VERIFIED.

REVISD ENTIRE SHEET 5/28/2024



USER NAME = FinowicM	DESIGNED - MXF	REVISED -
PLOT SCALE = 20.0000' / in.	DRAWN - MJM	REVISED -
PLOT DATE = 4/24/2024	CHECKED - JRS	REVISED -
	DATE - 01/10/2024	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

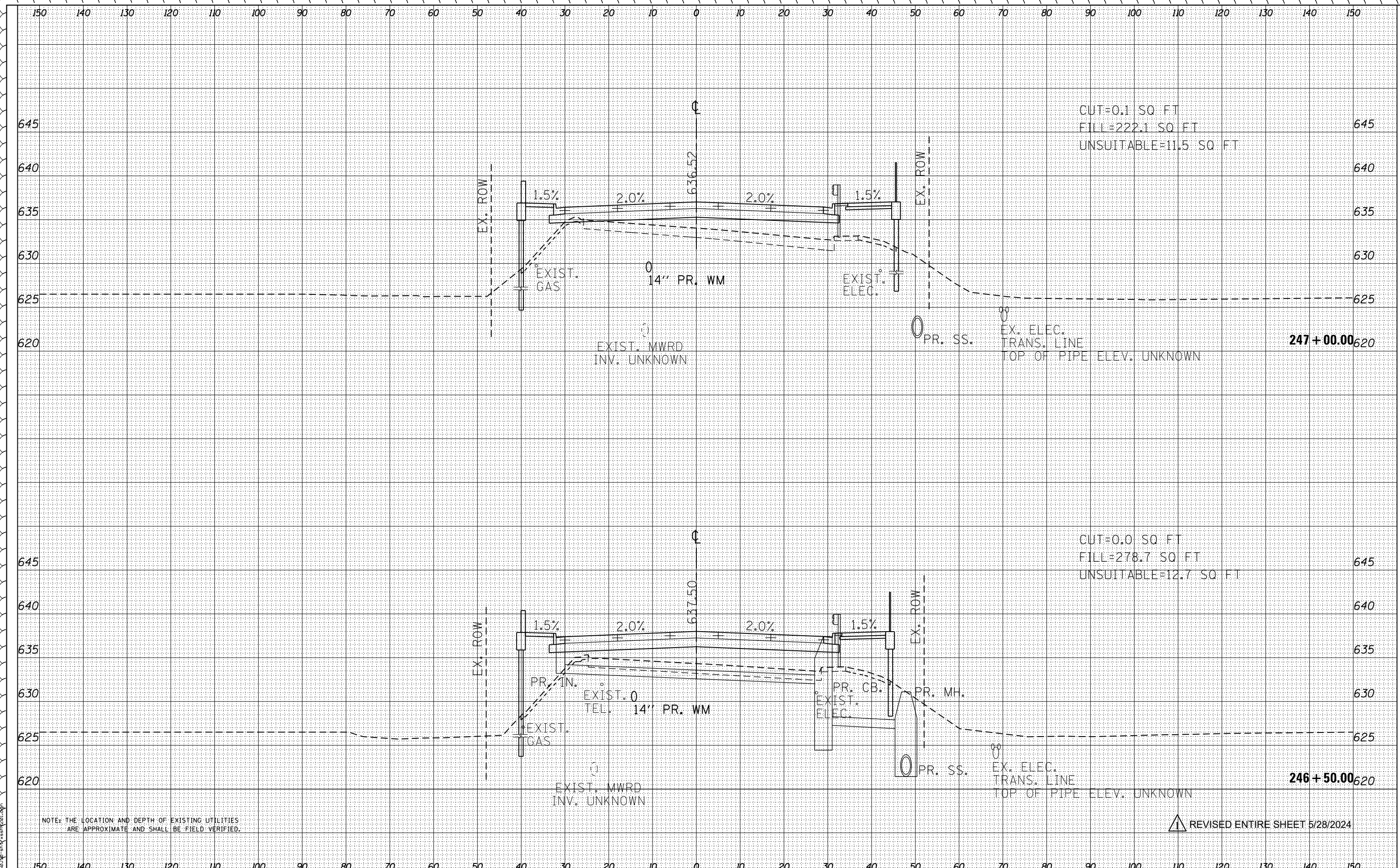
RAND ROAD CROSS SECTIONS

SCALE: 1"=10'H/1"=5'V SHEET 17 OF 25 SHEETS STA. 243+37.00 TO STA. 246+33.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3523	120-Y-B	COOK	267	259
CONTRACT NO. 60J10				
ILLINOIS FED. AID PROJECT				

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

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



NOTE: THE LOCATION AND DEPTH OF EXISTING UTILITIES ARE APPROXIMATE AND SHALL BE FIELD VERIFIED.

REVISOR'S MARK: REVISED ENTIRE SHEET 5/28/2024



USER NAME = FinowicM	DESIGNED - MXF	REVISED -
PLOT SCALE = 20.0000' / in.	DRAWN - MJM	REVISED -
PLOT DATE = 4/24/2024	CHECKED - JRS	REVISED -
	DATE - 01/10/2024	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

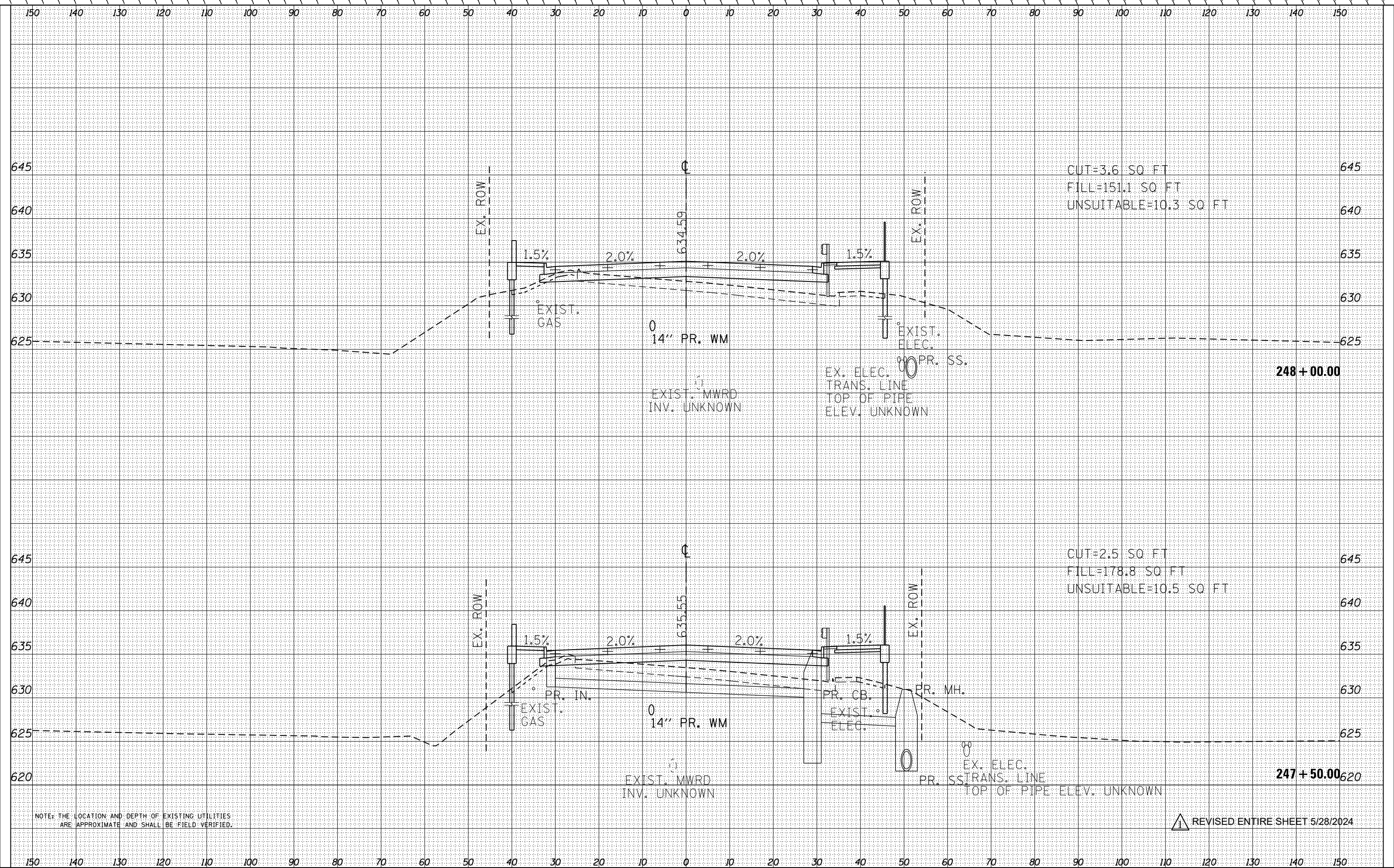
RAND ROAD CROSS SECTIONS

SCALE: 1"=10'H/1"=5'V SHEET 18 OF 25 SHEETS STA. 246+50.00 TO STA. 247+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3523	120-Y-B	COOK	267	260
CONTRACT NO. 60J10				
ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINAL SURVEY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	



NOTE: THE LOCATION AND DEPTH OF EXISTING UTILITIES ARE APPROXIMATE AND SHALL BE FIELD VERIFIED.

REVISD ENTIRE SHEET 5/28/2024



USER NAME = FinowicM	DESIGNED - MXF	REVISED -
PLOT SCALE = 20.0000' / in.	DRAWN - MJM	REVISED -
PLOT DATE = 4/24/2024	CHECKED - JRS	REVISED -
	DATE - 01/10/2024	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

RAND ROAD CROSS SECTIONS

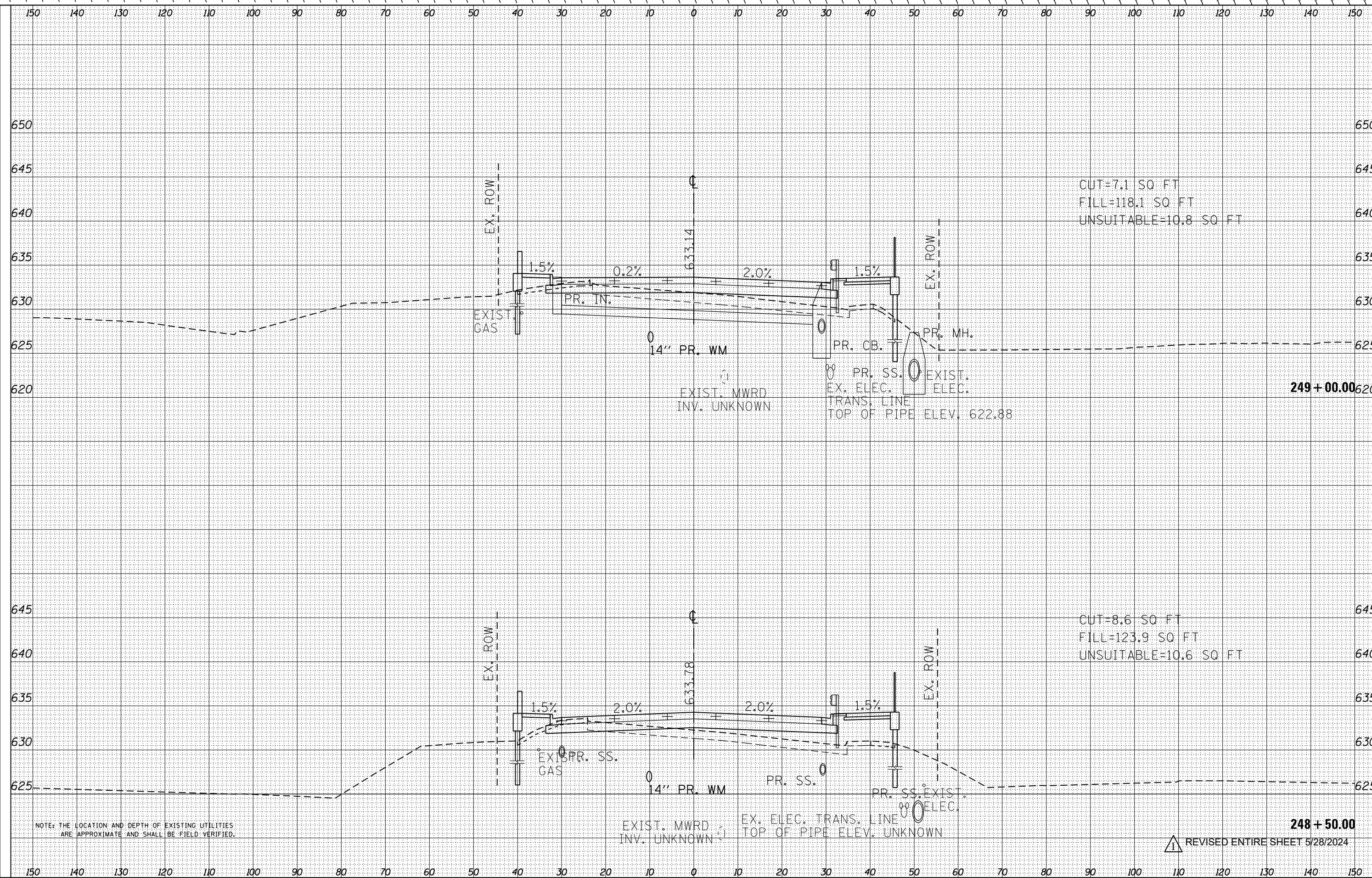
SCALE: 1"=10'H/1"=5'V SHEET 19 OF 25 SHEETS STA. 247+50.00 TO STA. 248+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3523	120-Y-B	COOK	267	261
CONTRACT NO. 60J10				
ILLINOIS FED. AID PROJECT				



BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 SURVEYED \_\_\_\_\_  
 PLOTTED \_\_\_\_\_  
 TEMPLATE \_\_\_\_\_  
 AREAS \_\_\_\_\_  
 CHECKED \_\_\_\_\_  
 NO. \_\_\_\_\_

BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 SURVEYED \_\_\_\_\_  
 PLOTTED \_\_\_\_\_  
 TEMPLATE \_\_\_\_\_  
 AREAS \_\_\_\_\_  
 CHECKED \_\_\_\_\_  
 NO. \_\_\_\_\_



NOTE: THE LOCATION AND DEPTH OF EXISTING UTILITIES ARE APPROXIMATE AND SHALL BE FIELD VERIFIED.

REVISOR'S MARK: REVISED ENTIRE SHEET 5/28/2024



USER NAME = FinowicM	DESIGNED - MXF	REVISED -
PLOT SCALE = 20.0000' / in.	DRAWN - MJM	REVISED -
PLOT DATE = 4/24/2024	CHECKED - JRS	REVISED -
	DATE - 01/10/2024	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

RAND ROAD CROSS SECTIONS

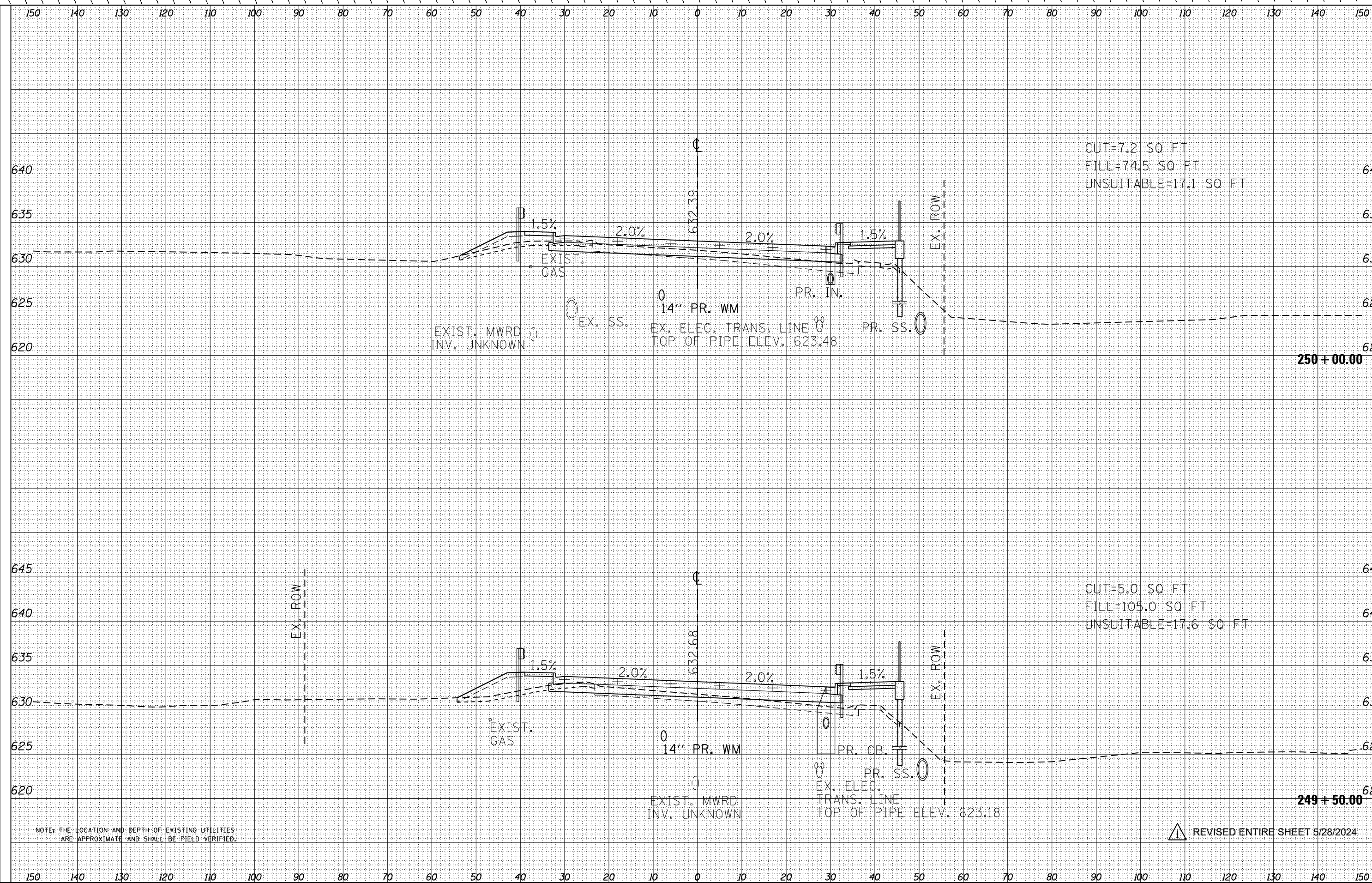
SCALE: 1"=10'H/1"=5'V SHEET 20 OF 25 SHEETS STA. 248+50.00 TO STA. 249+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3523	120-Y-B	COOK	267	262
CONTRACT NO. 60J10				

ILLINOIS FED. AID PROJECT

DATE	
BY	
FINAL SURVEY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	



NOTE: THE LOCATION AND DEPTH OF EXISTING UTILITIES ARE APPROXIMATE AND SHALL BE FIELD VERIFIED.

REVISD ENTIRE SHEET 5/28/2024



USER NAME = FinowicM	DESIGNED - MXF	REVISED -
PLOT SCALE = 20.0000' / in.	DRAWN - MJM	REVISED -
PLOT DATE = 4/24/2024	CHECKED - JRS	REVISED -
	DATE - 01/10/2024	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

RAND ROAD CROSS SECTIONS

SCALE: 1"=10'H/1"=5'V SHEET 21 OF 25 SHEETS STA. 249+50.00 TO STA. 250+00.00

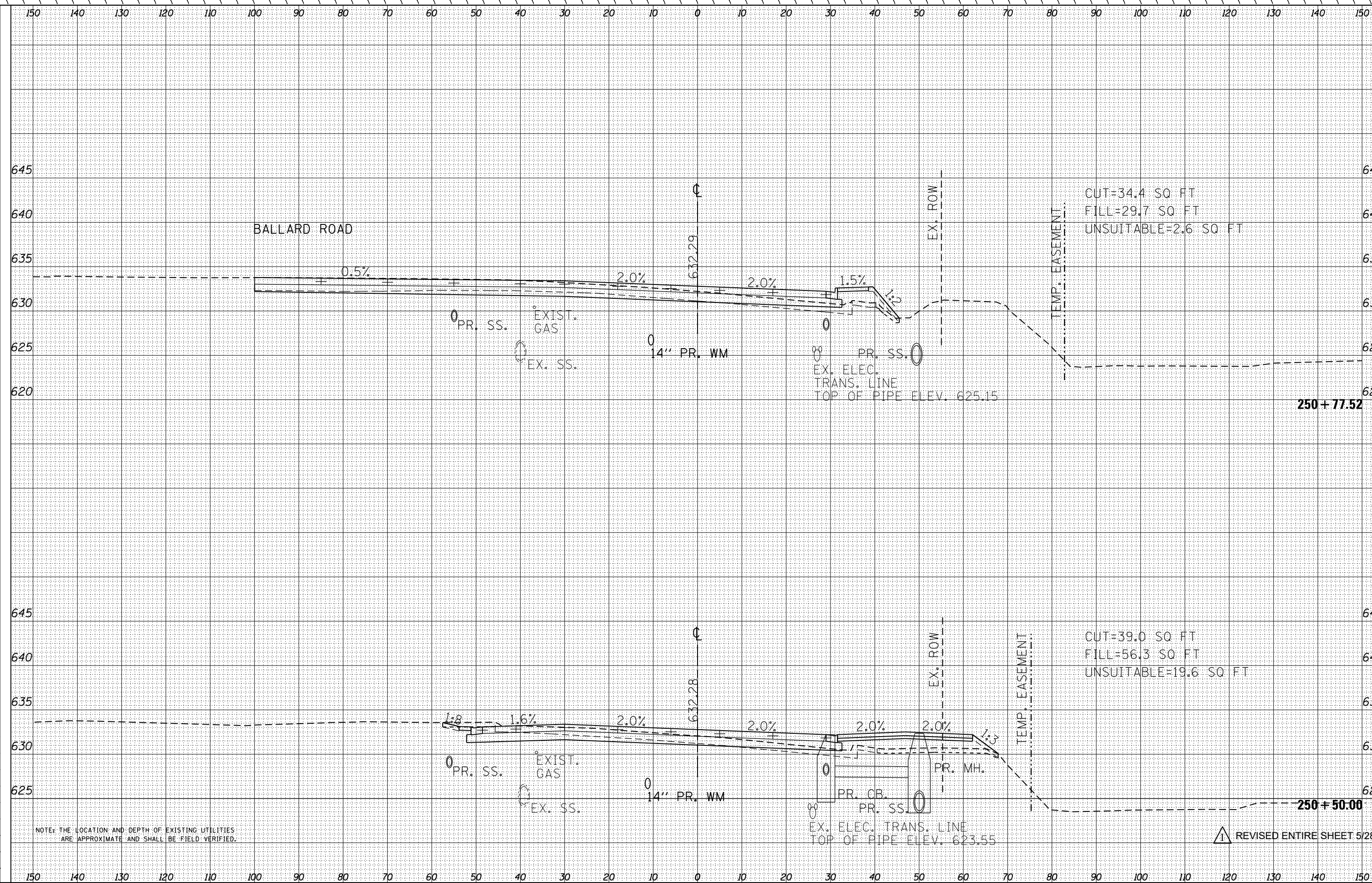
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3523	120-Y-B	COOK	267	263
CONTRACT NO. 60J10				

ILLINOIS FED. AID PROJECT



DATE	
BY	
FINAL SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	



NOTE: THE LOCATION AND DEPTH OF EXISTING UTILITIES ARE APPROXIMATE AND SHALL BE FIELD VERIFIED.

REVISOR'S MARK: REVISED ENTIRE SHEET 5/28/2024



USER NAME = FinowicM	DESIGNED - MXF	REVISED -
	DRAWN - MJM	REVISED -
	CHECKED - JRS	REVISED -
	DATE - 01/10/2024	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

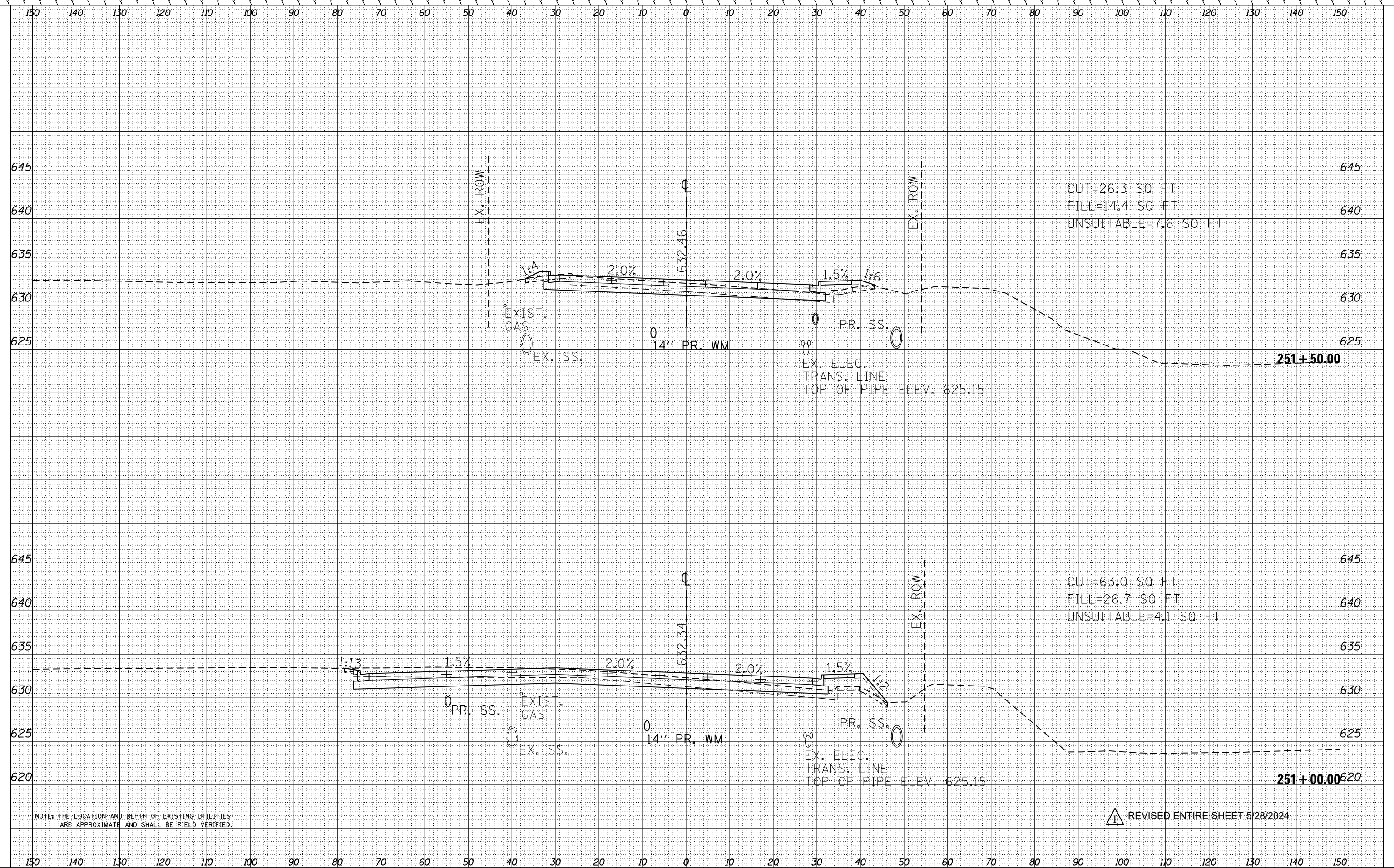
RAND ROAD CROSS SECTIONS

SCALE: 1"=10'H/1"=5'V SHEET 22 OF 25 SHEETS STA. 250+50.00 TO STA. 250+77.52

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3523	120-Y-B	COOK	267	264
CONTRACT NO. 60J10				
ILLINOIS FED. AID PROJECT				

DATE	
BY	
NO.	
AREAS CHECKED	
PLATE	
NOTE BOOK	
NO.	
AREAS CHECKED	
PLATE	
NOTE BOOK	
NO.	
AREAS CHECKED	

DATE	
BY	
NO.	
AREAS CHECKED	
PLATE	
NOTE BOOK	
NO.	
AREAS CHECKED	
PLATE	
NOTE BOOK	
NO.	
AREAS CHECKED	



NOTE: THE LOCATION AND DEPTH OF EXISTING UTILITIES ARE APPROXIMATE AND SHALL BE FIELD VERIFIED.

REVISD ENTIRE SHEET 5/28/2024



USER NAME = FinowicM	DESIGNED - MXF	REVISED -
PLOT SCALE = 20.0000' / in.	DRAWN - MJM	REVISED -
PLOT DATE = 4/24/2024	CHECKED - JRS	REVISED -
	DATE - 01/10/2024	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

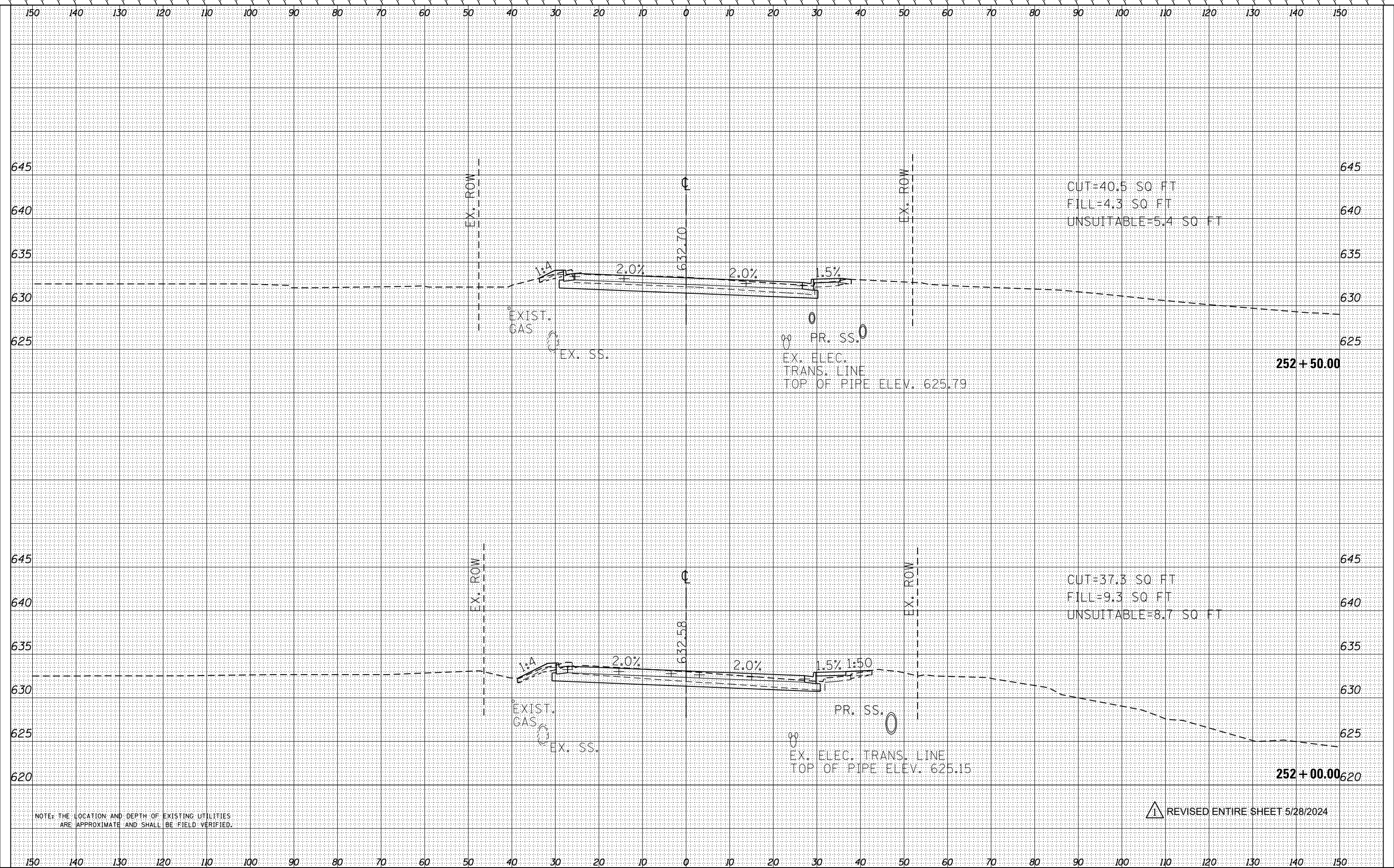
RAND ROAD CROSS SECTIONS

SCALE: 1"=10'H/1"=5'V SHEET 23 OF 25 SHEETS STA. 251+00.00 TO STA. 251+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3523	120-Y-B	COOK	267	265
CONTRACT NO. 60J10				
ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINAL SURVEY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	



NOTE: THE LOCATION AND DEPTH OF EXISTING UTILITIES ARE APPROXIMATE AND SHALL BE FIELD VERIFIED.

REVISOR'S MARK:  $\Delta$  REVISED ENTIRE SHEET 5/28/2024



USER NAME = FinowicM	DESIGNED - MXF	REVISED -
PLOT SCALE = 20.0000' / in.	DRAWN - MJM	REVISED -
PLOT DATE = 4/24/2024	CHECKED - JRS	REVISED -
	DATE - 01/10/2024	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

RAND ROAD CROSS SECTIONS

SCALE: 1"=10'H/1"=5'V SHEET 24 OF 25 SHEETS STA. 252+00.00 TO STA. 252+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3523	120-Y-B	COOK	267	266
CONTRACT NO. 60J10				
ILLINOIS FED. AID PROJECT				

