

FOR INDEX OF SHEETS, SEE SHEET NO. 2 06-11-2021 LETTING ITEM 093

# STATE OF ILLINOIS

## DEPARTMENT OF TRANSPORTATION PLANS FOR PROPOSED FEDERAL AID HIGHWAY

### WOLF ROAD (F.A.U. 2689) SHARED-USE PATH U.S. 34 (OGDEN AVENUE) TO S/O BEMIS WOODS TRAIL SECTION NO. 16-00095-00-BT PROJECT NO. 0QDI(381) VILLAGE OF WESTERN SPRINGS, COOK COUNTY JOB NO. C-91-123-17

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2689	16-00095-00-BT	COOK	54	1
FEDERAL AID PROJECT ILLINOIS		CONTRACT NO. 61H13		

FOR LIST OF HIGHWAY STANDARDS, SEE SHEET NO. 2

#### TRAFFIC DATA:

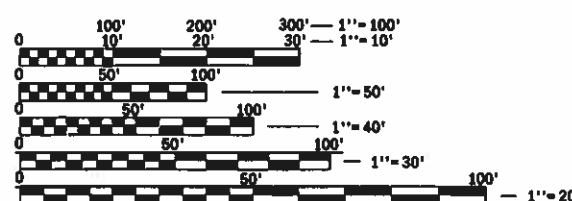
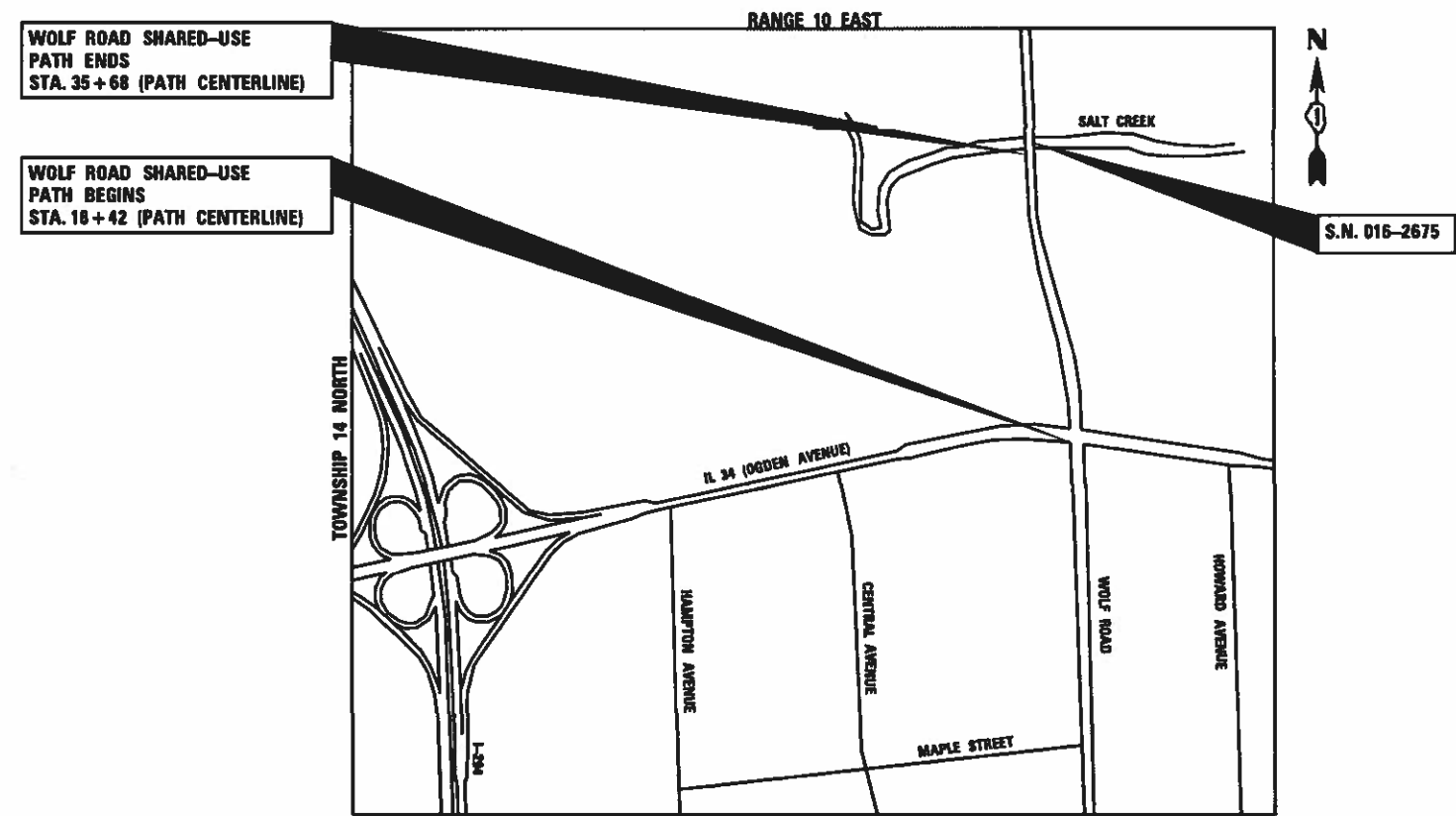
DESIGN DESIGNATION:  
WOLF ROAD = MINOR ARTERIAL

ADT:  
WOLF ROAD = 19,000 (2018)

POSTED SPEED:  
WOLF ROAD = 40 MPH



FEDERAL AID PROGRAM ENGINEER: CARMEN E. RAMOS, P.E. SCHUMBERG, IL



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

VILLAGE OF WESTERN SPRINGS  
LOCATION MAP  
NOT TO SCALE  
GROSS AND NET LENGTH = 1,726 FT. = 0.327 MILE

V3  
MICHAEL J. RECHTORIK, P.E.  
# 062-058827

*[Signature]*  
03-31-2021  
EXPIRATION DATE: 11-30-2021

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

Approved: *[Signature]*  
Matthew Supert, Director of Municipal Services  
VILLAGE OF WESTERN SPRINGS

Approved: Eric L. Otto  
Eric L. Otto, Civil Eng.  
FOREST PRESERVES OF COOK COUNTY

Passed: *[Signature]*  
District 1 Engineer of Local Roads & Streets

Releasing for Bid Based on Limited Review: *[Signature]*  
April 2, 2021  
Regional Engineer

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**GENERAL NOTES**

- ALL EXISTING TOPOGRAPHY, UNDERGROUND UTILITIES, STRUCTURES AND ASSOCIATED FACILITIES SHOWN ON THESE DRAWINGS HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS. THEREFORE, THEIR LOCATIONS AND ELEVATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHER FACILITIES, THE EXISTENCE OF WHICH ARE NOT PRESENTLY KNOWN. THE EXACT LOCATIONS AND ELEVATIONS ARE TO BE VERIFIED BY THE CONTRACTOR.
- ALL REFERENCES TO "ENGINEER" SHALL BE INTERPRETED AS THE RESIDENT ENGINEER, AND ALL REFERENCES TO "VILLAGE" AND TO "OWNER" SHALL BE INTERPRETED AS THE VILLAGE OF WESTERN SPRINGS.
- BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AND THE VILLAGE OF WESTERN SPRINGS FOR FIELD LOCATIONS OF BURIED UTILITIES AT LEAST 48 HOURS IN ADVANCE OF WORK.
- ALL UTILITY COMPANIES, SCHOOL DISTRICTS, AND LOCAL POLICE AND FIRE DEPARTMENT SHALL BE NOTIFIED BY THE CONTRACTOR AT LEAST 72 HOURS PRIOR TO THE START OF CONSTRUCTION. UTILITY INFORMATION CAN BE FOUND IN THE "STATUS OF UTILITIES (D-1)" SPECIAL PROVISION.  
DEPARTMENT OF FIRE AND EMS: 708-246-1800 EXT. 171  
DEPARTMENT OF LAW ENFORCEMENT SERVICES: 708-246-8540  
SCHOOL DISTRICT 101: 708-246-3700
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FIELD CHECK ALL DIMENSIONS AND ELEVATIONS OF EXISTING UTILITY LINES AND STRUCTURES THAT MAY BE IMPACTED BY THE PROPOSED WORK PRIOR TO ORDERING MATERIAL OR BEGINNING CONSTRUCTION. ANY DISCREPANCIES FROM THE PLANS SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY.
- ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED BY THE UTILITY COMPANY.
- THE CONTRACTOR SHALL USE ALL NECESSARY PRECAUTIONARY AND PROTECTIVE MEASURES REQUIRED TO MAINTAIN AND PROTECT EXISTING UTILITIES, SEWERS, MAINS AND APPURTENANCES THAT MUST BE KEPT IN OPERATION. IN PARTICULAR, THE CONTRACTOR SHALL TAKE ADEQUATE MEASURES TO PREVENT THE UNDERMINING OF UTILITIES, SEWERS AND MAINS WHICH WILL REMAIN IN SERVICE. THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER AND UTILITY COMPANY TO DETERMINE IF TEMPORARY BRACING OR SUPPORT OF THE UTILITIES IS REQUIRED.
- THE CONTRACTOR WILL NOT BE PERMITTED TO SET UP A YARD OR FIELD OFFICE ON STATE OR VILLAGE PROPERTY WITHOUT PRIOR WRITTEN PERMISSION OF THE DEPARTMENT.
- WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE DISTURBED. THE CONTRACTOR SHALL CAREFULLY PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER, AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED EACH LOCATION.
- ALL APPLICABLE PROVISIONS OF THE CURRENT OCCUPATIONAL SAFETY AND HEALTH ACT ARE HEREIN INCORPORATED BY REFERENCE.
- NO WORK SHALL COMMENCE UNTIL TRAFFIC CONTROL REQUIREMENTS ARE MET.
- EXCEPT WHERE MODIFIED BY THE CONTRACT DOCUMENTS, ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE FOLLOWING SPECIFICATIONS:
  - "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", BRIDGE CONSTRUCTION", ADOPTED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION, APRIL 1, 2016.
  - "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS", ADOPTED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION, JANUARY 1, 2021.
  - THE LATEST EDITIONS OF THE MUNICIPAL CODE AND STANDARDS OF THE VILLAGE OF WESTERN SPRINGS.
  - THE ILLINOIS ACCESSIBILITY CODE.
  - THE LATEST EDITIONS OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS", AND THE "ILLINOIS SUPPLEMENT TO THE NATIONAL MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".
  - "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS", LATEST EDITION.
  - "ILLINOIS RECOMMENDED STANDARDS FOR SEWAGE WORKS," AS PUBLISHED BY THE IEPA, LATEST EDITION.
  - "MANUAL OF TEST PROCEDURES FOR MATERIALS", LATEST EDITION
  - "ILLINOIS URBAN MANUAL", LATEST EDITION
  - THE NATIONAL ELECTRIC CODE, LATEST EDITION.
- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, TIME OF PERFORMANCE, PROGRAMS OR ANY SAFETY PRECAUTIONS USED BY THE CONTRACTOR. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR EXECUTION OF HIS/HER WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND SPECIFICATIONS.

- THE CONTRACTOR IS RESPONSIBLE FOR HAVING A SET OF "APPROVED" ENGINEERING PLANS WITH THE LATEST REVISION DATE ON THE JOB SITE PRIOR TO THE START OF CONSTRUCTION AND AT ALL TIMES DURING CONSTRUCTION.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER, RESIDENTS, BUSINESSES, AND THE VILLAGE WHEN ACCESS TO DRIVEWAYS WILL BE TEMPORARILY CLOSED OR IMPACTED DUE TO CURB AND GUTTER AND/OR DRIVEWAY REPLACEMENT. THE CONTRACTOR SHALL DISTRIBUTE NOTICES PROVIDED BY THE VILLAGE TO RESIDENTS AND BUSINESSES AT LEAST 24 HOURS PRIOR TO PLANNED CLOSURE. EVERY EFFORT SHALL BE MADE TO ACCOMMODATE ACCESS TO THESE PROPERTIES INCLUDING KNOCKING ON DOORS WHEN DRIVEWAYS ARE ABOUT TO BE CLOSED.
- PORTABLE/CHANGEABLE ELECTRONIC MESSAGE BOARDS SHALL BE USED IN ADVANCE OF THE PROJECT ACCORDING TO IDOT STANDARDS AND SHALL BE IN PLACE A MINIMUM OF 72 HOURS PRIOR TO COMMENCING THE WORK AND REMAIN THROUGHOUT THE ROADWAY CONSTRUCTION WORK.
- AREAS TO BE RESTORED OUTSIDE THE FURNISHED TOPSOIL PLACEMENT SHALL BE PREPARED ACCORDING TO SECTION 252 OF THE STANDARD SPECIFICATIONS.
- THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR FOR ARTERIALS AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV AT LEAST 72 HOURS BEFORE BEGINNING WORK.
- ALL STATION AND OFFSETS SHOWN IN THE PLANS ARE FROM SHARED-USE PATH CL ALIGNMENT UNLESS OTHERWISE NOTED.
- DURING CONSTRUCTION OF PROPOSED IMPROVEMENTS ALONG COOK COUNTY HIGHWAYS, TWO-WAY TRAFFIC SHALL REMAIN OPEN FOR ALL TRAFFIC AT ALL TIMES. IF ANY ACTIVITY REQUIRES ENCROACHMENT INTO A LANE, THAT ACTIVITY SHALL BE RESTRICTED TO WITHIN THE HOURS OF 9:00 A.M. TO 3:00 P.M., FOLLOWING THE APPLICABLE IDOT AND IDOT DISTRICT 1 TRAFFIC CONTROL STANDARDS INCLUDED IN THE PLANS FOR OFF-ROAD AND ON-ROAD APPLICATIONS.
- IF ANY EXISTING PAVEMENT MARKING AND/OR SIGNING ALONG COOK COUNTY ROADWAYS IS DAMAGED DUE TO CONSTRUCTION OF PROPOSED IMPROVEMENTS, THE CONTRACTOR SHALL REPLACE THE DAMAGED TRAFFIC CONTROL DEVICES TO THE SATISFACTION OF COOK COUNTY PER IDOT AND IDOT DISTRICT 1 STANDARDS FOR TRAFFIC CONTROL DEVICES, PAVEMENT MARKING, AND SIGNAGE INCLUDED IN THE PLANS.
- AGGREGATE SUBGRADE IMPROVEMENT (CU.YD.) HAS BEEN PROVIDED FOR USE AT THE LOCATION INDICATED FOR SOILS THAT TEND TO BE UNSTABLE AND/ OR UNSUITABLE. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH AGGREGATE SUBGRADE IMPROVEMENT (CU.YD.) WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE GEOTECHNICAL ENGINEER. ALL POTENTIALLY UNSTABLE SOIL SHOULD BE TESTED WITH A STATIC AND/OR DYNAMIC CONE PENETROMETER AND TREATED IN ACCORDANCE WITH ARTICLE 301.04 OF THE SSRBC STANDARD AND CURRENT IDOT SUBGRADE STABILITY MANUAL. IF UNSTABLE AND/OR UNSUITABLE SOIL ARE NOT ENCOUNTERED, THEN THE QUANTITY SHALL BE DEDUCTED AND NO ADDITIONAL COMPENSATION WILL BE DUE TO THE CONTRACTOR.

**REMOVALS, SIDEWALK, CURB AND GUTTER, AND PAVING NOTES**

- ALL EXISTING PAVEMENT OR CONCRETE CURB AND GUTTER TO BE REMOVED SHALL BE SAWCUT ALONG LIMITS OF PROPOSED REMOVAL BEFORE COMMENCEMENT OF PAVEMENT REMOVAL.
- THE CONTRACTOR IS RESPONSIBLE FOR THE PROPER AND LAWFUL REMOVAL AND DISPOSAL OF EXCAVATED MATERIALS FROM THE JOBSITE.
- NO HOLES ARE TO BE LEFT OPEN IN THE PAVEMENT OR PARKWAY OVER A HOLIDAY, WEEKEND OR AFTER 3:00 P.M. ON THE DAY PRECEDING A HOLIDAY OR A WEEKEND.
- PAVEMENT AND CURBS TO REMAIN SHALL BE PROTECTED FROM DAMAGE. IF DAMAGED, IT SHALL BE REPLACED PROMPTLY IN CONFORMANCE WITH THE MUNICIPALITY OR IDOT STANDARD SPECIFICATIONS IN MATERIALS AND WORKMANSHIP AND BY CONTRACTOR.
- ALL CURB RADII REFER TO EDGE OF PAVMENT UNLESS OTHERWISE NOTED.
- PROPOSED ELEVATIONS INDICATE FINISHED CONDITIONS. FOR ROUGH GRADING ELEVATIONS ALLOW FOR THICKNESS OF PROPOSED PAVING (ROADS, WALKS, DRIVES, ETC.) OR TOPSOIL AS INDICATED ON DRAWINGS.

**DRAINAGE NOTES**

- STRUCTURE OFFSET LOCATIONS ARE TO THE EDGE OF PAVEMENT IF THE STRUCTURE IS IN THE CURB LINE OR TO THE CENTER OF THE STRUCTURE IF THE STRUCTURE IS NOT IN THE CURB LINE.
- WHENEVER, DURING CONSTRUCTION OPERATIONS, LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF GUTTERS, DRAINAGE STRUCTURES, DITCHES ETC., SUCH THAT THE NATURAL FLOW LINE OF WATER IS OBSTRUCTED, THE LOOSE MATERIAL SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. PRIOR TO ACCEPTANCE OF THE IMPROVEMENT, ALL DRAINAGE STRUCTURES AND FLOW LINES SHALL BE FREE FROM DIRT AND DEBRIS.
- THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL EXISTING PIPE SIZES, INVERTS, FLOW DIRECTION, AND CONNECTIONS PRIOR TO ORDERING ANY MATERIALS TO CONFIRM THAT THE PROPOSED PIPES AND STRUCTURES ARE ADEQUATE AND RESULT IN POSITIVE DRAINAGE FLOW.

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**HIGHWAY STANDARDS**

000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
424001-11	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
542401-04	METAL FLARED END SECTION FOR PIPE CULVERTS
602011-02	CATCH BASIN, TYPE C
602402-03	PRECAST MANHOLE, TYPE A, 5"(1.52 M) DIAMETER
602601-06	PRECAST REINFORCED CONCRETE FLAT SLAB TOP
602701-02	MANHOLE STEPS
604001-05	FRAME AND LIDS, TYPE 1
604036-03	GRATE, TYPE 8
606001-07	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
701001-02	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15'(4.5 M) AWAY
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15'(4.5 M) TO 24"(600 MM) FROM PAVEMENT EDGE
701011-04	OFF-ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701101-05	OFF-ROAD OPERATIONS, MULTILANE, 15'(4.5 M) TO 24"(600 MM) FROM PAVEMENT EDGE
701106-02	OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15'(4.5 M) AWAY
701427-05	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATION, FOR SPEEDS <=40 MPH
701606-10	URBAN SINGLE LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-08	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
720011-01	METAL POSTS FOR SIGNS, MARKERS AND DELINEATORS
728001-01	TELESCOPING STEEL SIGN SUPPORT
780001-05	TYPICAL PAVEMENT MARKINGS
857001-01	STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
873001-02	TRAFFIC SIGNAL GROUNDING & BONDING
876001-04	PEDESTRIAN PUSH BUTTON POST
878001-11	CONCRETE FOUNDATION DETAILS
880006-01	TRAFFIC SIGNAL MOUNTING DETAILS
886001-01	DETECTOR LOOP INSTALLATIONS
886006-01	TYPICAL LAYOUT FOR DETECTION LOOPS

**IDOT DISTRICT ONE STANDARDS**

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BD-24	CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT
TC-10	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS AND DRIVEWAYS
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TC-14	TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)
TC-22	ATERIAL ROAD INFORMATION SIGN
TS-05	STANDARD TRAFFIC SIGNAL DESIGN DETAILS

**COMMITMENTS**

NONE

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PLOT DATE = 4/14/2021	DATE - 3/31/2021	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS, HIGHWAY STANDARDS, AND GENERAL NOTES

SCALE: NONE SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2689	16-00095-00-BT	COOK	54	2
				CONTRACT NO. 61H13
ILLINOIS FED. AID PROJECT T801 (066)				



SPECIALTY ITEM	SPECIAL PROVISION	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY 80% FEDERAL 20% LOCAL 0028
#		20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	1,534	1,534
#		20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	649	649
		20101100	TREE TRUNK PROTECTION	EACH	29	29
#		20101200	TREE ROOT PRUNING	EACH	29	29
		20200100	EARTH EXCAVATION	CU YD	335	335
		20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	805	805
	*	20400800	FURNISHED EXCAVATION	CU YD	520	520
		20800150	TRENCH BACKFILL	CU YD	14	14
		21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	4,911	4,911
#		25000210	SEEDING, CLASS 2A	ACRE	0.75	0.75
		28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	101	101
		28000400	PERIMETER EROSION BARRIER	FOOT	1,761	1,761
		28000510	INLET FILTERS	EACH	4	4
		28001100	TEMPORARY EROSION CONTROL BLANKET	SQ YD	4,911	4,911
	*	30300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	25	25
		35101800	AGGREGATE BASE COURSE, TYPE B 6"	SQ YD	2,096	2,096
		40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	4,706	4,706
		40604060	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50	TON	319	319
		40604062	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70	TON	1	1

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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NONE SHEET 1 OF 4 SHEETS STA. TO STA.

F.A.U. RTE. 2689	SECTION 16-00095-00-BT	COUNTY COOK	TOTAL SHEETS 54	SHEET NO. 4
CONTRACT NO. 61H13				ILLINOIS FED. AID PROJECT TE-01D1066

SPECIALTY ITEM	SPECIAL PROVISION	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY 80% FEDERAL 20% LOCAL 0028
		42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	260	260
		42400800	DETECTABLE WARNINGS	SQ FT	43	43
	*	44000600	SIDEWALK REMOVAL	SQ FT	287	287
		50104400	CONCRETE HEADWALL REMOVAL	EACH	1	1
		54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	EACH	1	1
		54213669	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"	EACH	1	1
		54262712	METAL FLARED END SECTIONS 12"	EACH	1	1
		542C0217	PIPE CULVERTS, CLASS C, TYPE 1 12"	FOOT	18	18
		550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	78	78
		550A0120	STORM SEWERS, CLASS A, TYPE 1 24"	FOOT	19	19
		55100500	STORM SEWER REMOVAL 12"	FOOT	10	10
		60207605	CATCH BASINS, TYPE C, TYPE 8 GRATE	EACH	3	3
		60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	1
		60236200	INLETS, TYPE A, TYPE 8 GRATE	EACH	1	1
#	*	66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	6	6
#	*	66900530	SOIL DISPOSAL ANALYSIS	EACH	1	1
#	*	66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1	1
#	*	66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1	1
#	*	66901006	REGULATED SUBSTANCES MONITORING	CAL DA	10	10

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

**SUMMARY OF QUANTITIES**

SCALE: NONE SHEET 2 OF 4 SHEETS STA. TO STA.

F.A.U. RTE. 2689	SECTION 16-00095-00-BT	COUNTY COOK	TOTAL SHEETS 54	SHEET NO. 5
CONTRACT NO. 61H13			ILLINOIS FED. AID PROJECT TE-010(1066)	



SPECIALTY ITEM	SPECIAL PROVISION	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY 80% FEDERAL 20% LOCAL 0028
#		87900200	DRILL EXISTING HANDHOLE	EACH	6	6
#	*	88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4	4
#	*	88800100	PEDESTRIAN PUSH-BUTTON	EACH	2	2
#	*	89500400	RELOCATE EXISTING PEDESTRIAN PUSH-BUTTON	EACH	2	2
#		89502200	MODIFY EXISTING CONTROLLER	EACH	1	1
#	*	89502210	MODIFY EXISTING CONTROLLER CABINET	EACH	1	1
#		89502350	REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	137	137
#	*	89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	2	2
#	*	89502376	REBUILD EXISTING HANDHOLE	EACH	1	1
#	*	89502400	REMOVE EXISTING FLASHING BEACON INSTALLATION COMPLETE	EACH	2	2
#	*	X1400367	PEDESTRIAN SIGNAL POST, 10 FT.	EACH	2	2
#	*	X1400378	PEDESTRIAN SIGNAL POST, 5 FT.	EACH	2	2
#	*	X2502014	SEEDING, CLASS 4A (MODIFIED)	ACRE	0.50	0.50
#	*	X2511630	EROSION CONTROL BLANKET (SPECIAL)	SQ YD	4,911	4,911
	*	X4400501	COMBINATION CURB AND GUTTER REMOVAL AND REPLACEMENT LESS THAN OR EQUAL TO 10 FEET	FOOT	42	42
#	*	X5090810	PEDESTRIAN RAIL (SPECIAL)	FOOT	76	76
#	*	X8780012	CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	16	16
	*	Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1
	*	Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	103	103
#	*	Z0033044	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1	1

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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**

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

F.A.U. RTE. 2689

SECTION 16-00095-00-BT

COUNTY COOK

TOTAL SHEETS	SHEET NO.
54	7

CONTRACT NO. 61H13

ILLINOIS FED. AID PROJECT TE-01D1(066)

STATION	EARTH EXCAVATION 20200100	EARTH EXCAVATION ADJUSTED FOR SWELL (15%)	FURNISHED EXCAVATION	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL
	CU YD	CU YD	CU YD	CU YD
17+34.34	0.00	0.00	0.00	0.00
17+50.00	0.00	0.00	0.00	0.00
18+00.00	0.00	0.00	0.00	0.00
18+50.00	0.39	0.45	3.30	7.85
19+00.00	0.39	0.45	21.03	22.57
19+50.00	0.00	0.00	37.98	29.50
20+00.00	0.00	0.00	27.49	25.55
20+50.00	0.00	0.00	13.05	22.65
21+00.00	0.07	0.08	13.26	23.47
21+50.00	0.75	0.86	9.36	19.56
22+00.00	2.94	3.38	2.60	14.56
22+50.00	15.37	17.68	4.04	20.42
23+00.00	25.63	29.47	7.03	27.42
23+50.00	27.95	32.14	6.54	27.03
24+00.00	29.30	33.70	5.32	25.71
24+50.00	24.00	27.60	4.64	23.69
25+00.00	10.13	11.65	30.17	25.82
25+23.24	3.72	4.28	20.44	16.28
25+50.00	4.30	4.95	24.03	17.88
26+00.00	0.77	0.89	31.49	22.09
26+50.00	9.98	11.48	5.40	22.74
27+00.00	14.38	16.54	5.35	25.00
27+50.00	16.21	18.64	5.15	24.47
28+00.00	23.00	26.45	5.59	26.54
28+50.00	19.26	22.15	5.16	24.62
29+00.00	15.16	17.43	5.19	25.25
29+50.00	11.81	13.58	6.55	28.57
30+00.00	6.04	6.95	15.16	29.43
30+50.00	2.19	2.52	29.78	30.24
31+00.00	0.14	0.16	26.99	27.02
31+50.00	6.15	7.07	9.71	19.21
32+00.00	11.30	13.00	1.91	15.27
32+50.00	6.59	7.58	6.59	15.87
33+00.00	1.43	1.64	19.41	19.25
33+50.00	0.00	0.00	24.06	22.13
34+00.00	0.00	0.00	15.31	20.67
34+50.00	0.00	0.00	18.10	19.67
35+00.00	0.58	0.67	19.77	17.82
35+50.00	0.58	0.67	23.03	16.46
35+83.05	0.00	0.00	11.63	5.57
<b>TOTALS</b>	<b>290.51</b>	<b>334.09</b>	<b>521.61</b>	<b>802.28</b>

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PLOT DATE = 3/31/2021	DATE - 3/31/2021	REVISED -

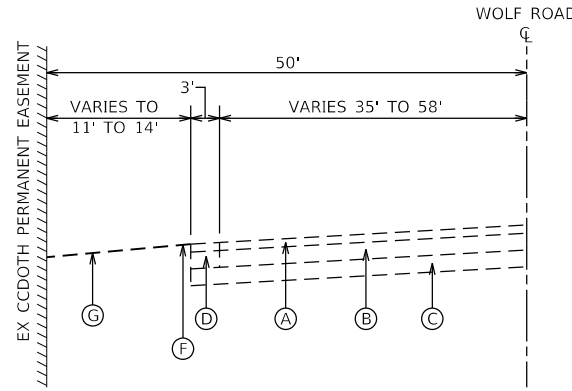
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SCHEDULE OF QUANTITIES**

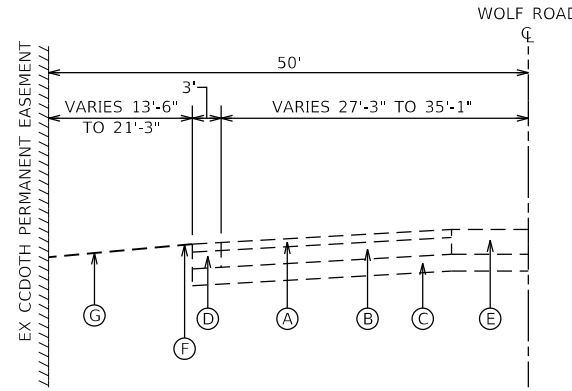
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2689	16-00095-00-BT	COOK	54	8
CONTRACT NO. 61H13				
ILLINOIS FED. AID PROJECT TE-01D1(066)				

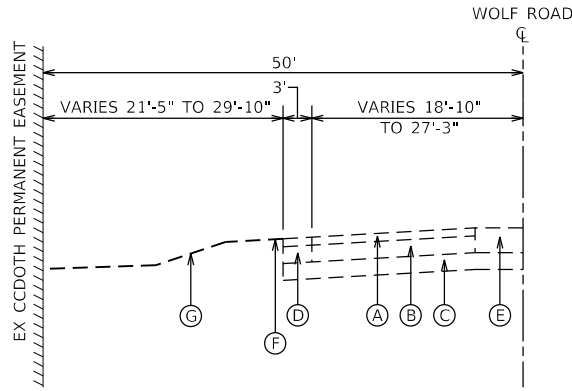




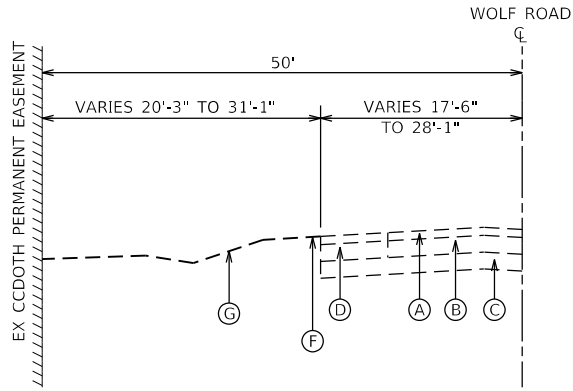
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**WOLF ROAD**  
STA. 18+42 TO STA. 22+20



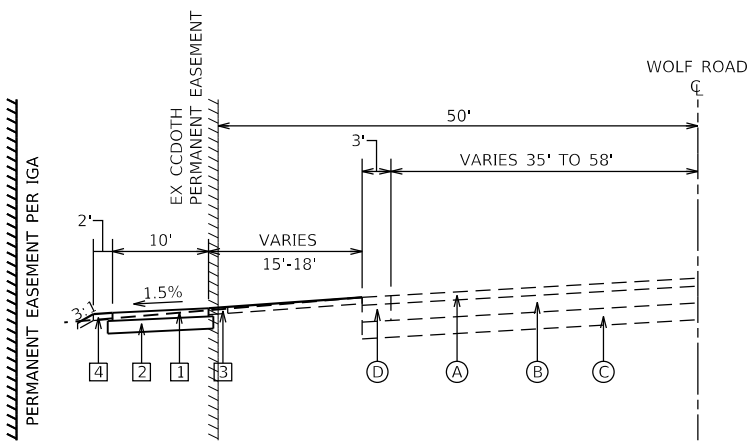
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STA. 22+20 TO STA. 23+46



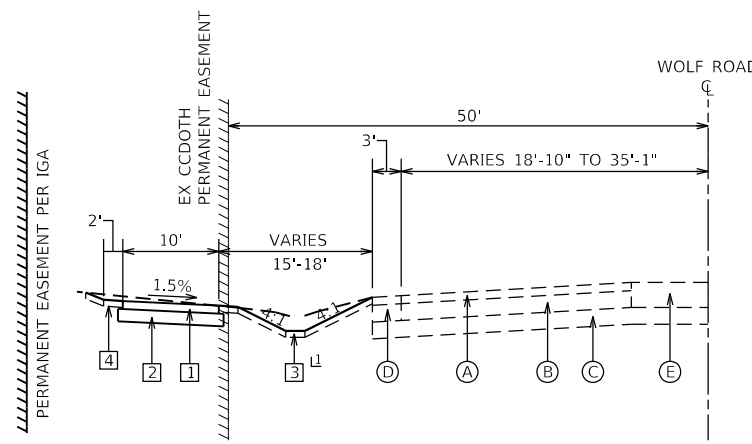
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STA. 23+46 TO STA. 28+65



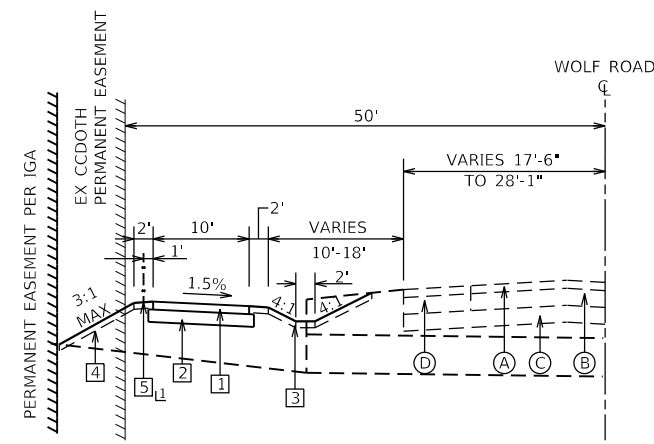
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**WOLF ROAD**  
STA. 28+65 TO STA. 35+82



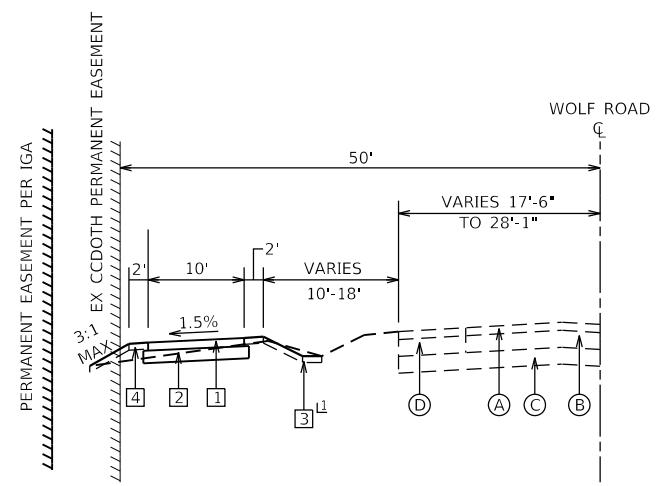
**PROPOSED TYPICAL SECTION**  
**WOLF ROAD**  
STA. 18+42 TO STA. 23+00



**PROPOSED TYPICAL SECTION**  
**WOLF ROAD**  
STA. 23+00 TO STA. 25+00  
STA. 26+50 TO STA. 29+00  
⊥ DITCH STA 22+50 TO STA 30+50



**PROPOSED TYPICAL SECTION**  
**WOLF ROAD**  
STA. 25+00 TO STA. 26+50  
⊥ PEDESTRIAN RAIL STA 24+87 TO 25+62



**PROPOSED TYPICAL SECTION**  
**WOLF ROAD**  
STA. 29+00 TO STA. 35+83.05  
⊥ DITCH STA 22+50 TO STA 30+50

**EXISTING LEGEND**

- (A) EXISTING HOT-MIX ASPHALT SURFACE COURSE, 2" & VARIES
- (B) EXISTING HOT-MIX ASPHALT PAVEMENT, 6" & VARIES
- (C) EXISTING AGGREGATE BASE, THICKNESS VARIES
- (D) EXISTING HOT-MIX ASPHALT SHOULDER
- (E) EXISTING CONCRETE MEDIAN
- (F) EXISTING AGGREGATE SHOULDER
- (G) EXISTING GROUND

**PROPOSED LEGEND**

- [1] HOT-MIX ASPHALT SURFACE COURSE IL-9.5, MIX "D", N50 - 3"
- [2] AGGREGATE BASE COURSE, TYPE B 6"
- [3] SEEDING, CLASS 2A TOPSOIL FURNISH AND PLACE, 4"
- [4] SEEDING, CLASS 4A (MODIFIED) TOPSOIL FURNISH AND PLACE, 4"
- [5] PEDESTRIAN RAIL (SPECIAL)

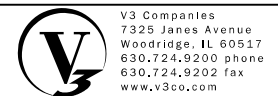
**NOTES**

1. REFERENCE CROSS SECTIONS FOR SHARED-USE PATH CROSS SLOPES, VARYING PARKWAY SLOPES, AND DITCHES.
2. STATIONING SHOWN IS CENTERLINE OF PATH.

**HOT-MIX ASPHALT REQUIREMENTS**

MIXTURE TYPE	VOIDS
SHARED-USE PATH	
HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50 - 3"	4% @ 50 GYR
HMA RESURFACING (2' WIDE)	
HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70 - 2 1/2"	4% @ 70 GYR
NOTES: THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IN 112 LBS/SQ. YD./IN. THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC-TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY SPECIAL PROVISIONS. FOR USE WITH RECYCLED MATERIAL, SEE SPECIAL PROVISIONS.	

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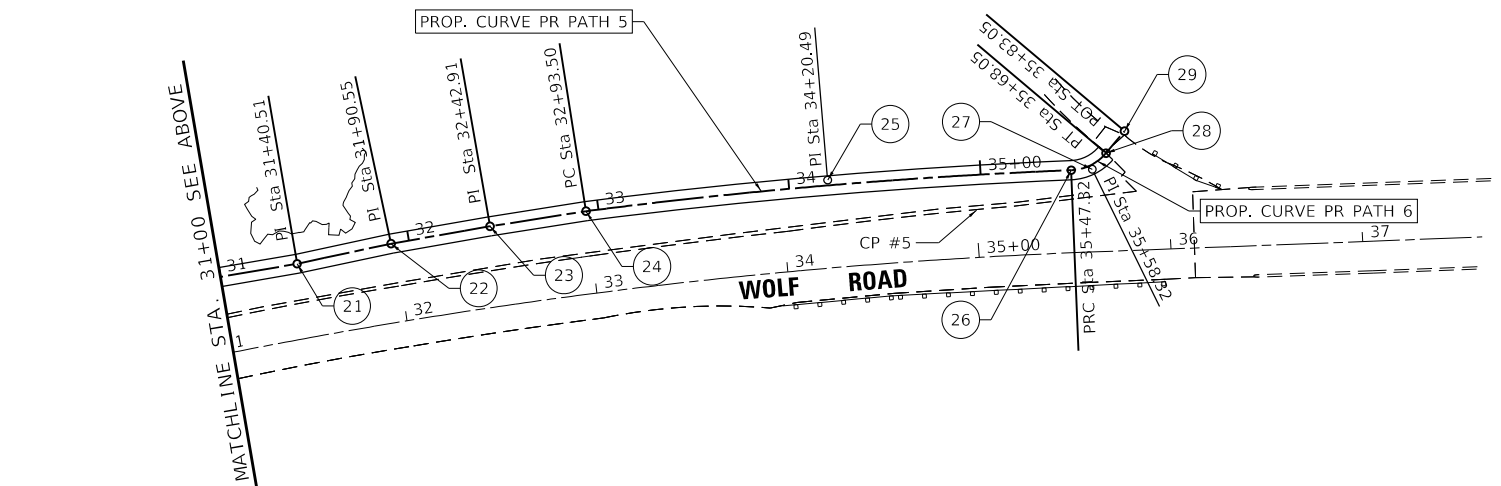
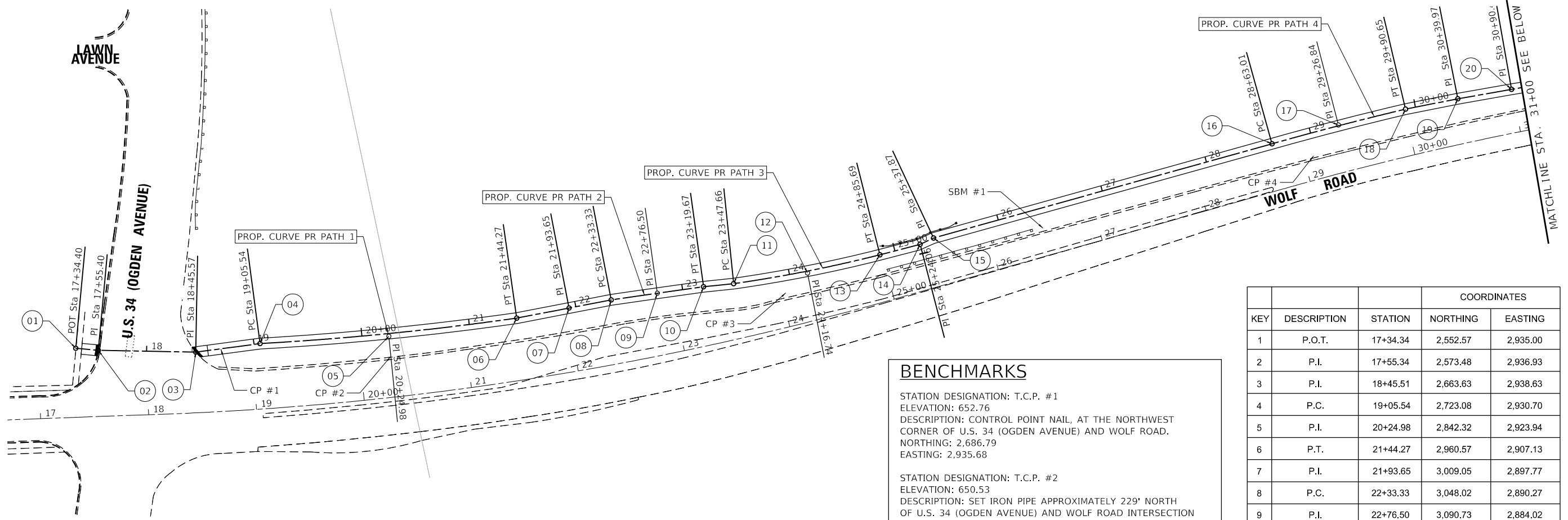
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PLOT DATE = 3/31/2021	CHECKED - MJR	REVISED -
	DATE - 3/31/2021	REVISED -

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

**TYPICAL SECTIONS**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2689	16-00095-00-BT	COOK	54	9
CONTRACT NO. 61H13				
ILLINOIS FED. AID PROJECT TE-01D1(066)				



### BENCHMARKS

STATION DESIGNATION: T.C.P. #1  
 ELEVATION: 652.76  
 DESCRIPTION: CONTROL POINT NAIL, AT THE NORTHWEST CORNER OF U.S. 34 (OGDEN AVENUE) AND WOLF ROAD.  
 NORTHING: 2,686.79  
 EASTING: 2,935.68

STATION DESIGNATION: T.C.P. #2  
 ELEVATION: 650.53  
 DESCRIPTION: SET IRON PIPE APPROXIMATELY 229' NORTH OF U.S. 34 (OGDEN AVENUE) AND WOLF ROAD INTERSECTION  
 NORTHING: 2,843.90  
 EASTING: 2,942.73

STATION DESIGNATION: T.C.P. #3  
 ELEVATION: 643.95  
 DESCRIPTION: SET IRON PIPE APPROXIMATELY 605' NORTH OF U.S. 34 (OGDEN AVENUE) AND WOLF ROAD INTERSECTION  
 NORTHING: 3,209.68  
 EASTING: 2,883.79

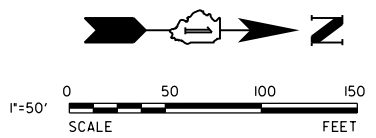
STATION DESIGNATION: T.C.P. #4  
 ELEVATION: 641.46  
 DESCRIPTION: SET IRON PIPE APPROXIMATELY 1110' NORTH OF U.S. 34 (OGDEN AVENUE) AND WOLF ROAD INTERSECTION  
 NORTHING: 3,697.97  
 EASTING: 2,756.86

STATION DESIGNATION: T.C.P. #5  
 ELEVATION: 640.03  
 DESCRIPTION: CONTROL POINT NAIL APPROXIMATELY 1700' NORTH OF U.S. 34 (OGDEN AVENUE) AND WOLF ROAD INTERSECTION  
 NORTHING: 4,284.50  
 EASTING: 2,658.87

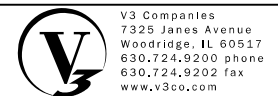
STATION DESIGNATION: S.B.M. #1  
 ELEVATION: 643.61  
 DESCRIPTION: BENCHMARK NORTHEAST BOLT ON LIGHTPOLE APPROXIMATELY 850' NORTH OF U.S. 34 (OGDEN AVENUE) AND WOLF ROAD INTERSECTION  
 NORTHING: 3,447.58  
 EASTING: 2,823.81

KEY	DESCRIPTION	STATION	COORDINATES	
			NORTHING	EASTING
1	P.O.T.	17+34.34	2,552.57	2,935.00
2	P.I.	17+55.34	2,573.48	2,936.93
3	P.I.	18+45.51	2,663.63	2,938.63
4	P.C.	19+05.54	2,723.08	2,930.70
5	P.I.	20+24.98	2,842.32	2,923.94
6	P.T.	21+44.27	2,960.57	2,907.13
7	P.I.	21+93.65	3,009.05	2,897.77
8	P.C.	22+33.33	3,048.02	2,890.27
9	P.I.	22+76.50	3,090.73	2,884.02
10	P.T.	23+19.67	3,133.49	2,878.09
11	P.C.	23+47.66	3,161.34	2,875.23
12	P.I.	24+16.74	3,229.72	2,865.41
13	P.T.	24+85.69	3,296.70	2,848.51
14	P.I.	25+24.06	3,333.83	2,838.85
15	P.I.	25+37.87	3,346.33	2,832.98
16	P.C.	28+63.01	3,659.55	2,745.75
17	P.I.	29+26.84	3,720.97	2,728.35
18	P.T.	29+90.65	3,783.09	2,713.67
19	P.I.	30+39.97	3,831.46	2,704.08
20	P.I.	30+90.42	3,881.14	2,695.32
21	P.I.	31+40.51	3,930.52	2,686.84
22	P.I.	31+90.55	3,979.44	2,676.36
23	P.I.	32+42.91	4,031.02	2,667.32
24	P.C.	32+93.50	4,080.99	2,659.45
25	P.I.	34+20.49	4,206.94	2,643.23
26	P.R.C.	35+47.32	4,333.82	2,638.07
27	P.I.	35+58.32	4,344.82	2,637.62
28	P.T.	35+68.05	4,351.91	2,629.22
29	P.I.	35+83.05	4,361.59	2,617.75

<b>PROP. CURVE PR_PATH_1</b> PI STA. = 20+24.98 $\Delta = 4^\circ 50' 46''$ (LT) $D = 2^\circ 01' 48''$ $R = 2,822.50'$ $T = 119.43'$ $L = 238.72'$ $E = 2.53'$ P.C. STA. = 19+05.54 P.T. STA. = 21+44.27	<b>PROP. CURVE PR_PATH_2</b> PI STA. = 22+76.50 $\Delta = 0^\circ 25' 24''$ (RT) $D = 0^\circ 29' 25''$ $R = 11,686.75'$ $T = 43.17'$ $L = 86.34'$ $E = 0.08'$ P.C. STA. = 22+33.33 P.T. STA. = 23+19.67	<b>PROP. CURVE PR_PATH_3</b> PI STA. = 24+16.74 $\Delta = 5^\circ 59' 50''$ (LT) $D = 4^\circ 20' 41''$ $R = 1,318.71'$ $T = 69.08'$ $L = 138.03'$ $E = 1.81'$ P.C. STA. = 23+47.66 P.T. STA. = 24+85.69	<b>PROP. CURVE PR_PATH_4</b> PI STA. = 29+26.84 $\Delta = 2^\circ 30' 54''$ (RT) $D = 1^\circ 58' 13''$ $R = 2,907.92'$ $T = 63.83'$ $L = 127.64'$ $E = 0.70'$ P.C. STA. = 28+63.01 P.T. STA. = 29+90.65	<b>PROP. CURVE PR_PATH_5</b> PI STA. = 34+20.49 $\Delta = 5^\circ 00' 20''$ (RT) $D = 1^\circ 58' 20''$ $R = 2,905.22'$ $T = 126.99'$ $L = 253.81'$ $E = 2.77'$ P.C. STA. = 32+93.50 P.T. STA. = 35+47.32	<b>PROP. CURVE PR_PATH_6</b> PI STA. = 35+58.32 $\Delta = 47^\circ 30' 33''$ (LT) $D = 229^\circ 11' 18''$ $R = 25.00'$ $T = 11.00'$ $L = 20.73'$ $E = 2.31'$ P.C. STA. = 35+47.32 P.T. STA. = 35+68.05
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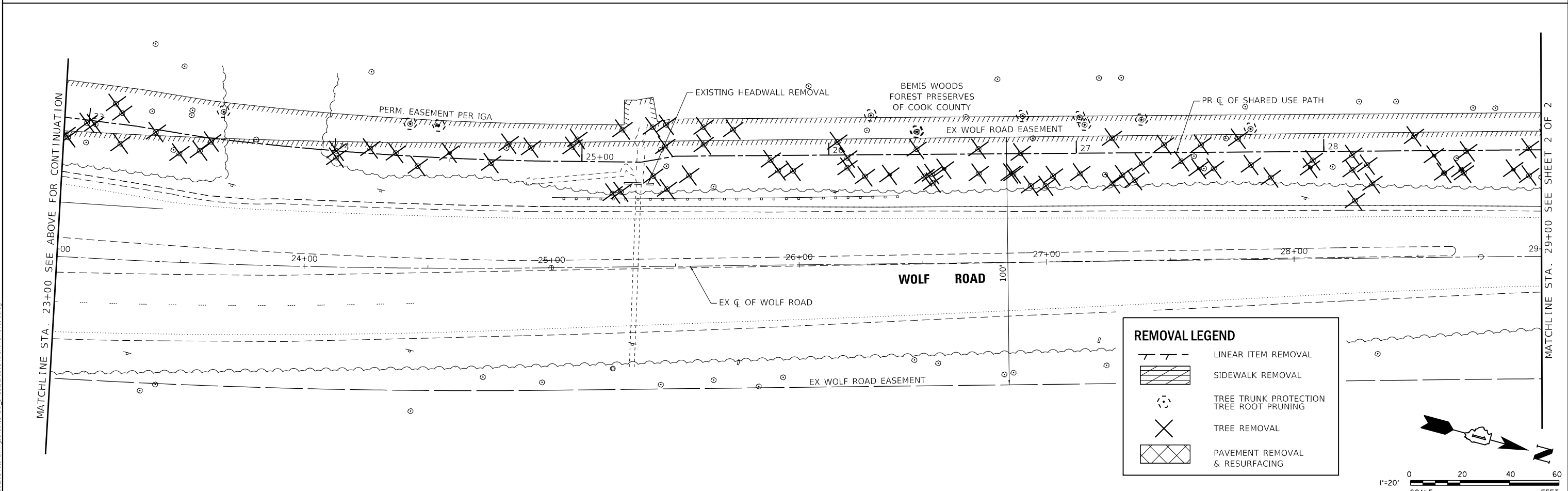
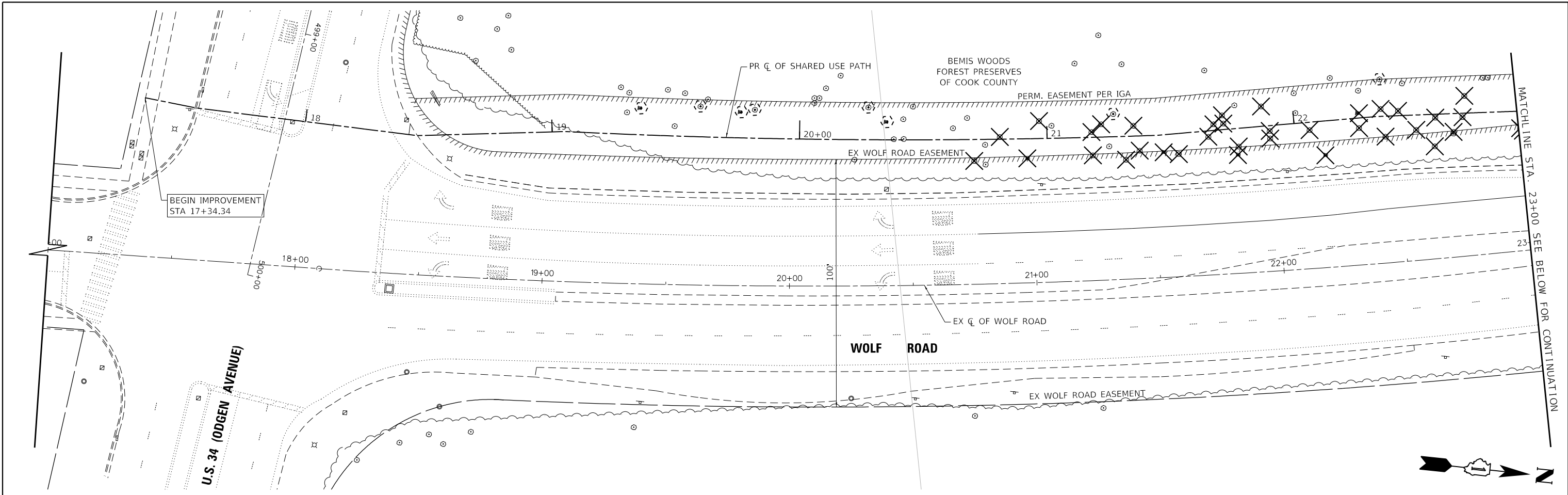
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	DATE - 3/31/2021	REVISED -

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

**ALIGNMENT, TIES AND BENCHMARKS**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2689	16-00095-00-BT	COOK	54	10
CONTRACT NO. 61H13				
ILLINOIS FED. AID PROJECT TE-01D1(066)				



REMOVAL LEGEND	
	LINEAR ITEM REMOVAL
	SIDEWALK REMOVAL
	TREE TRUNK PROTECTION TREE ROOT PRUNING
	TREE REMOVAL
	PAVEMENT REMOVAL & RESURFACING

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

USER NAME = cfigus	DESIGNED - CAS	REVISED -
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**REMOVAL PLAN**

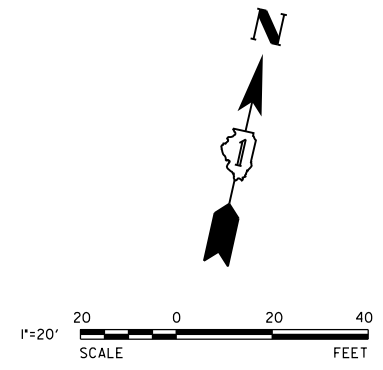
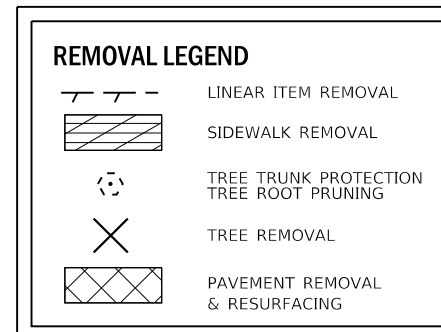
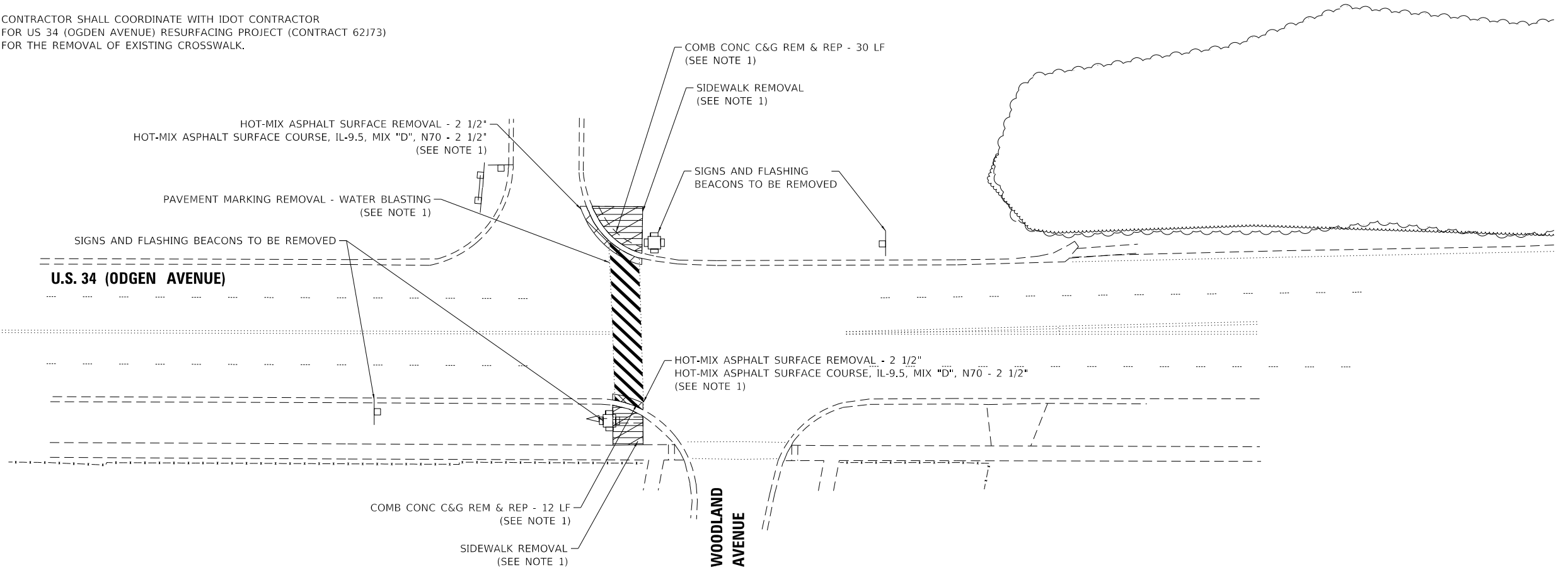
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2689	16-00122-00-BT	COOK	54	11
CONTRACT NO. 61H13				
ILLINOIS FED. AID PROJECT TE-01D1(066)				



**NOTES:**

- CONTRACTOR SHALL COORDINATE WITH IDOT CONTRACTOR FOR US 34 (OGDEN AVENUE) RESURFACING PROJECT (CONTRACT 62173) FOR THE REMOVAL OF EXISTING CROSSWALK.



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

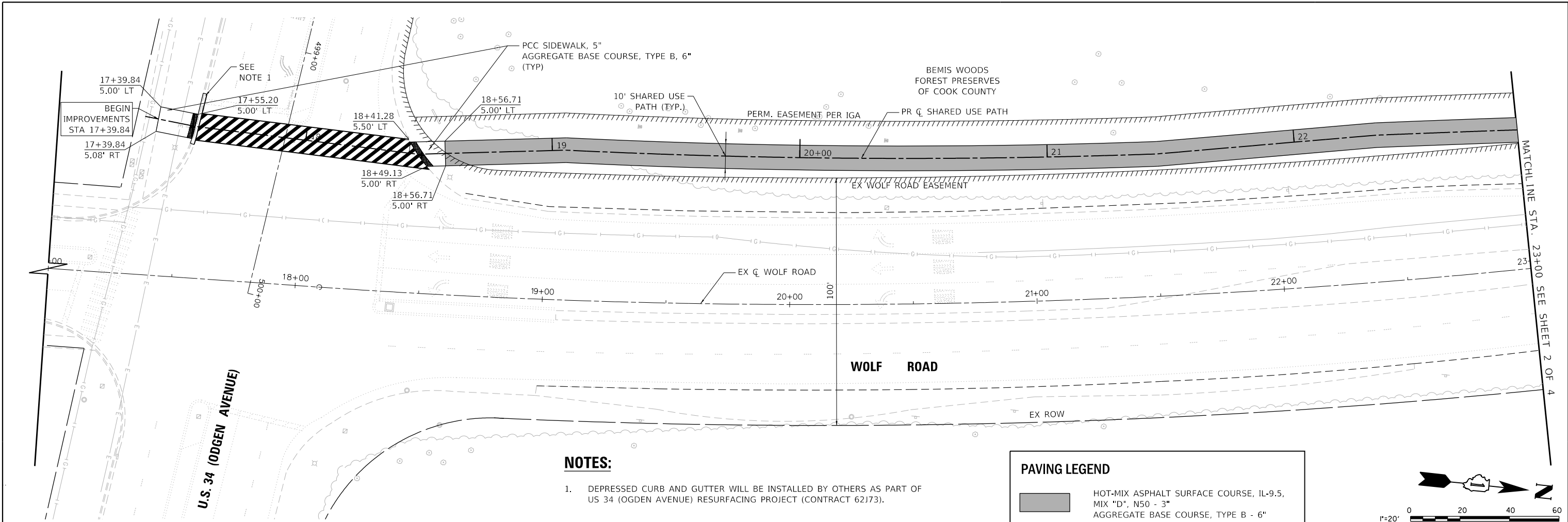
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PLOT DATE = 3/31/2021	DATE - 3/31/2021	REVISED -

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

**WOODLAND AVE CROSSWALK REMOVAL**  
**WOLF ROAD SHARED USE PATH**

SCALE: 1"=20'    SHEET 3 OF 3 SHEETS    STA. 100+00.00 TO STA. 100+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2689	16-00095-00-BT	COOK	54	13
CONTRACT NO. 61H13				
ILLINOIS FED. AID PROJECT TE-01D1(066)				

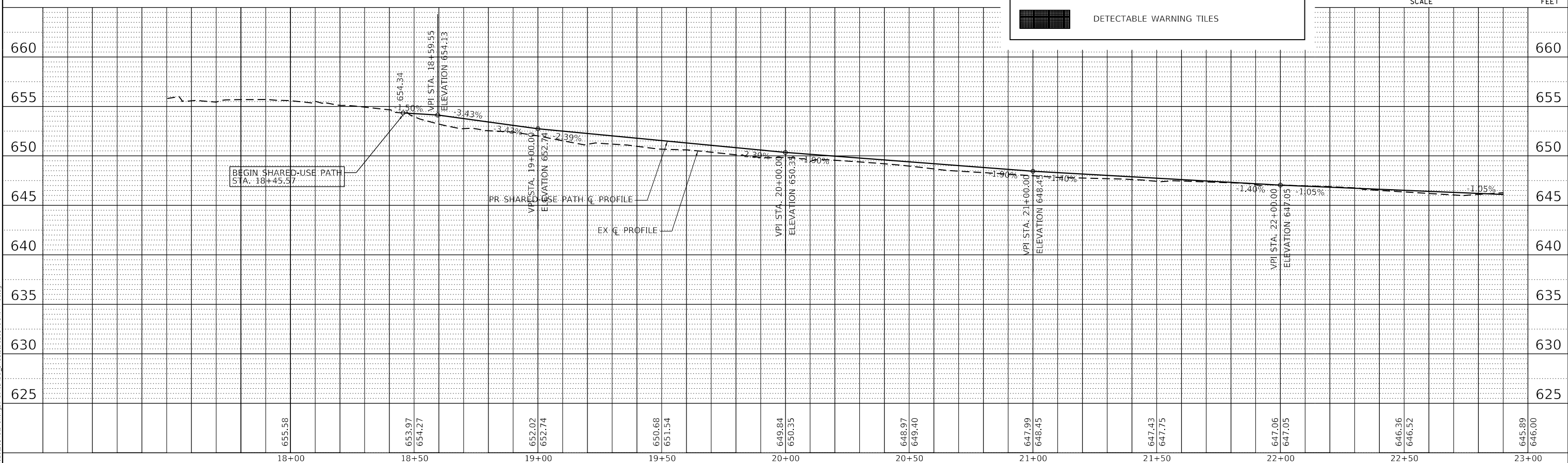
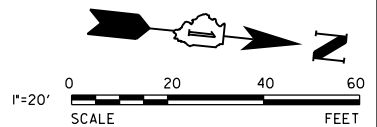


**NOTES:**

- DEPRESSED CURB AND GUTTER WILL BE INSTALLED BY OTHERS AS PART OF US 34 (ODGEN AVENUE) RESURFACING PROJECT (CONTRACT 62173).

**PAVING LEGEND**

- HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50 - 3" AGGREGATE BASE COURSE, TYPE B - 6"
- DETECTABLE WARNING TILES



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

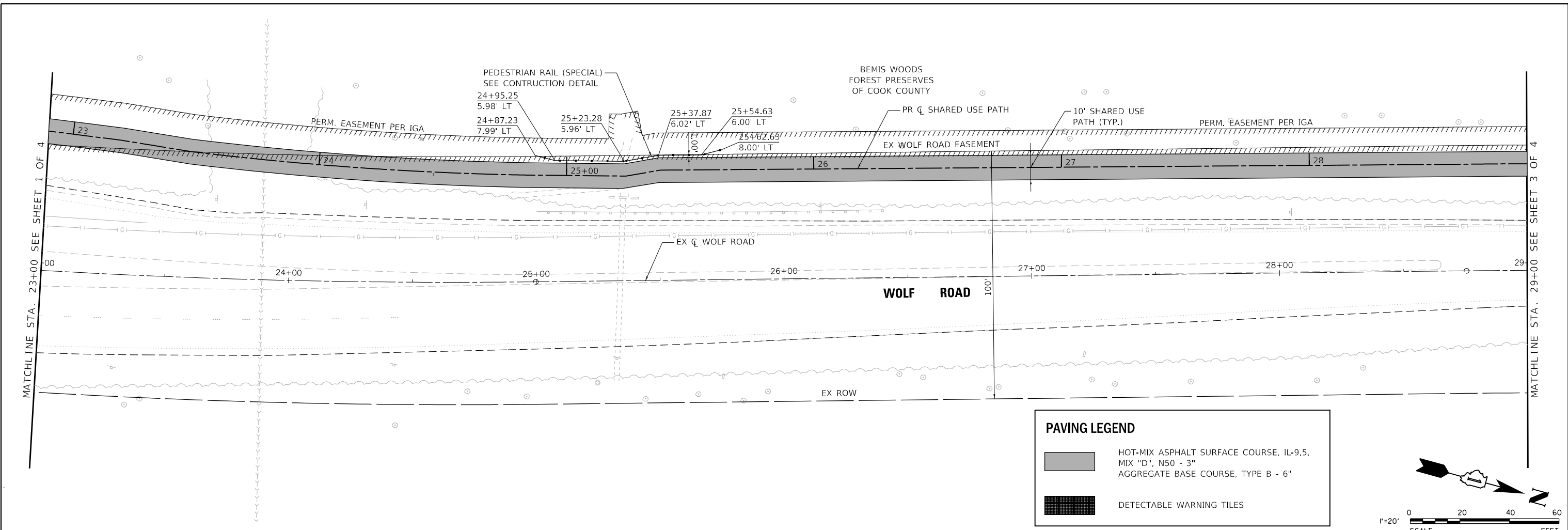
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SHARED USE PATH PLAN AND PROFILE**

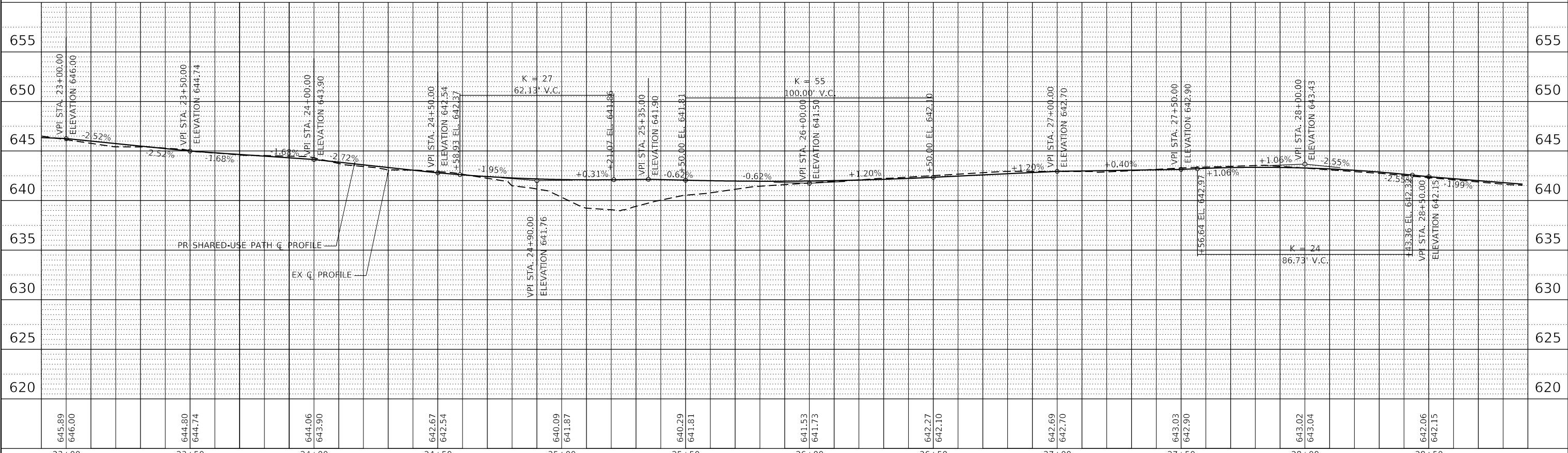
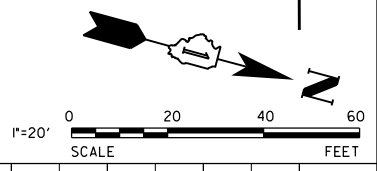
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F.A.U. RTE. 2689	SECTION 16-00095-00-BT	COUNTY COOK	TOTAL SHEETS 54	SHEET NO. 14
CONTRACT NO. 61H13				
ILLINOIS FED. AID PROJECT TE-01D1(066)				



**PAVING LEGEND**

- HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50 - 3" AGGREGATE BASE COURSE, TYPE B - 6"
- DETECTABLE WARNING TILES



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 630.724.9202 fax  
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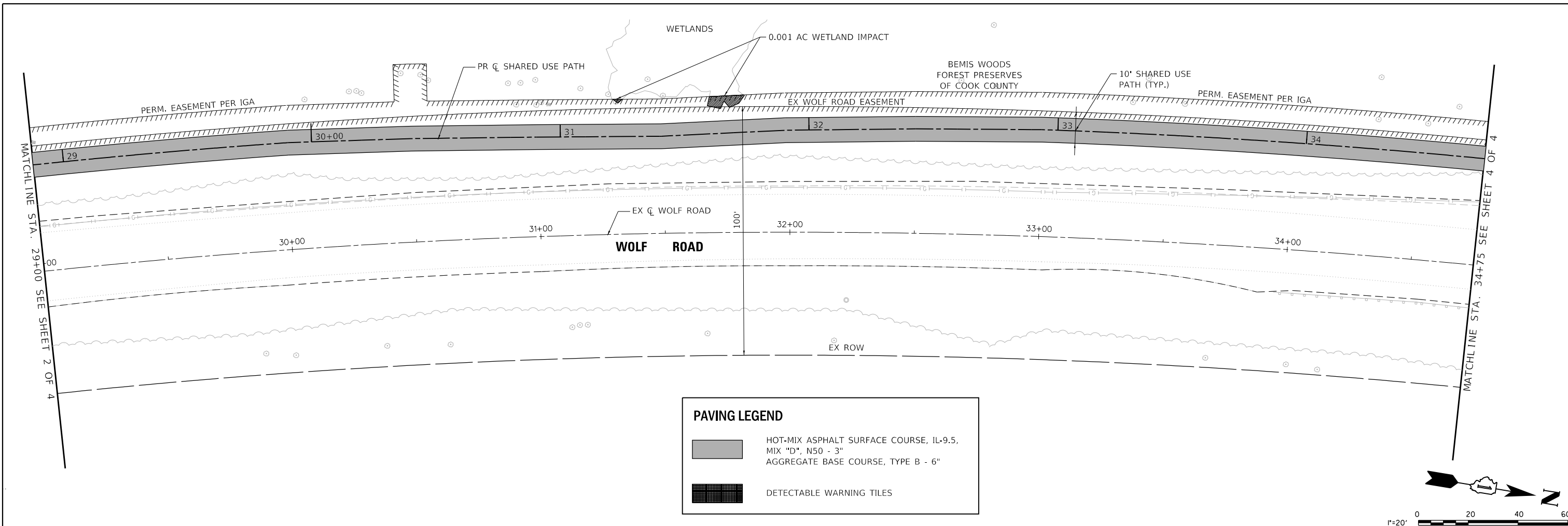
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**SHARED USE PATH PLAN AND PROFILE**

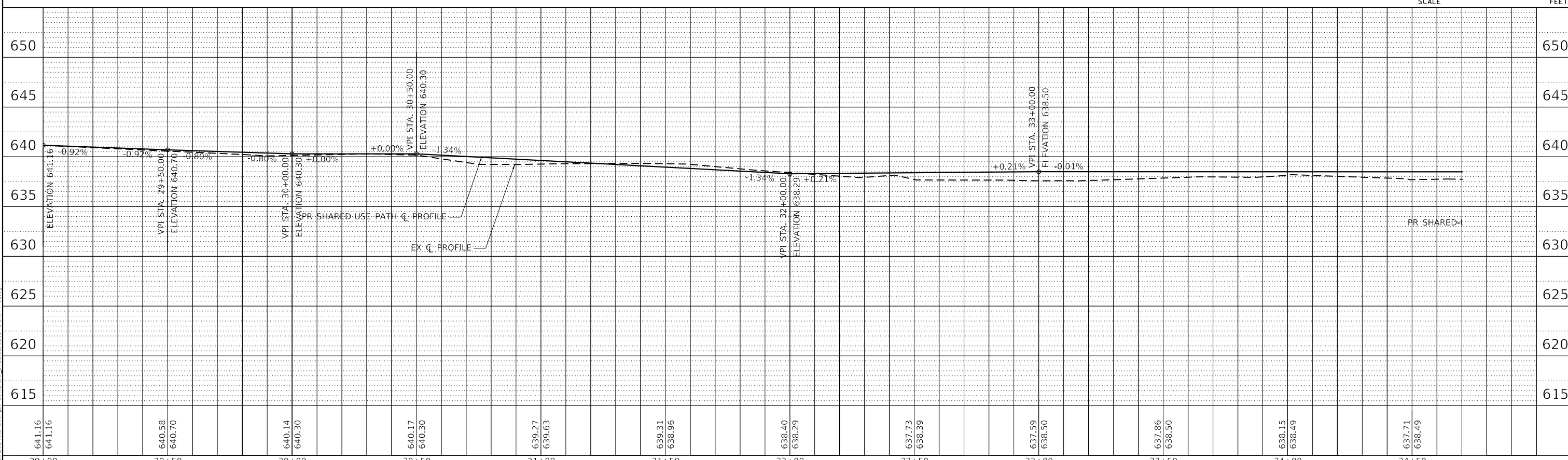
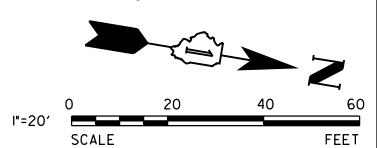
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2689	16-00095-00-BT	COOK	54	15
CONTRACT NO. 61H13				
ILLINOIS FED. AID PROJECT TE-01D1(066)				



**PAVING LEGEND**

- HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50 - 3" AGGREGATE BASE COURSE, TYPE B - 6"
- DETECTABLE WARNING TILES



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PLOT SCALE = 40'
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DRAWN - DRP	REVISIONS
CHECKED - MJR	REVISIONS
DATE - 3/31/2021	REVISIONS

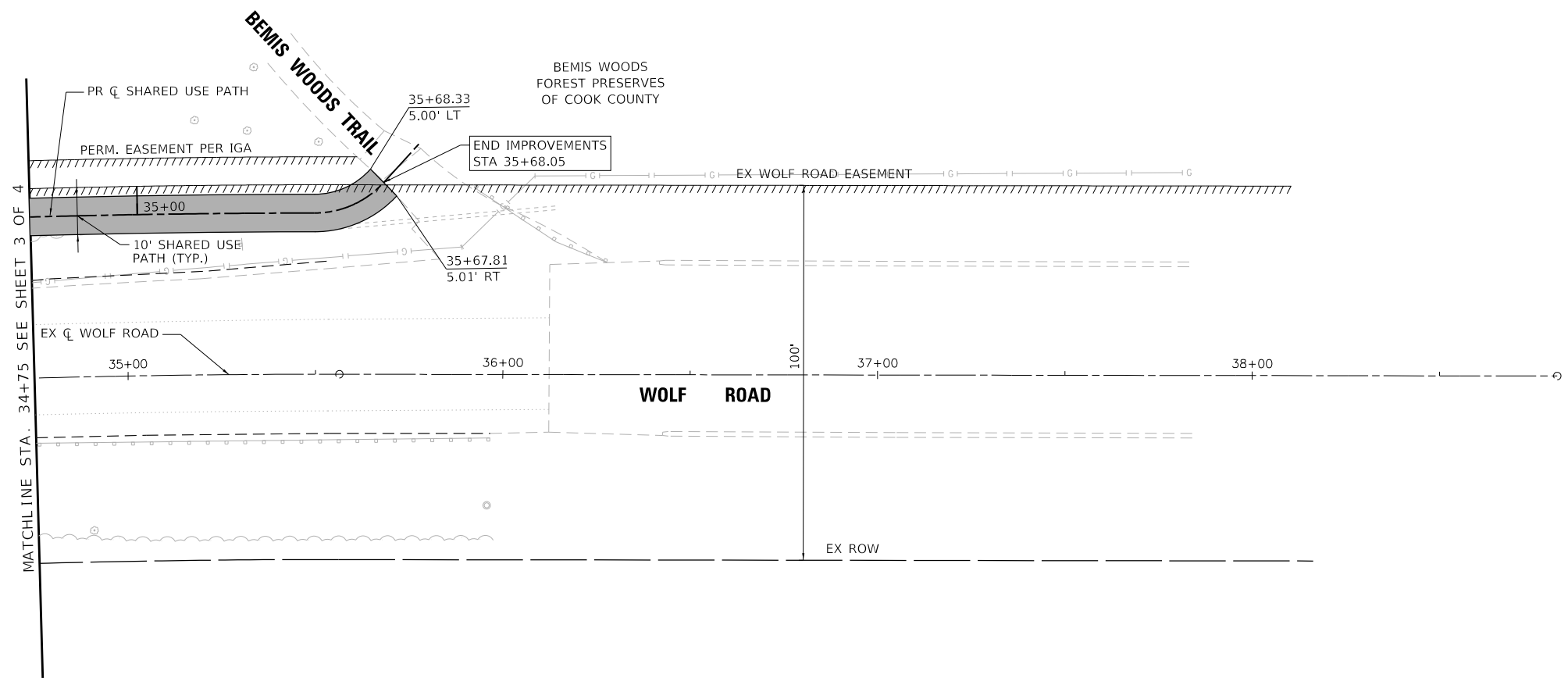
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**



**SHARED USE PATH PLAN AND PROFILE**

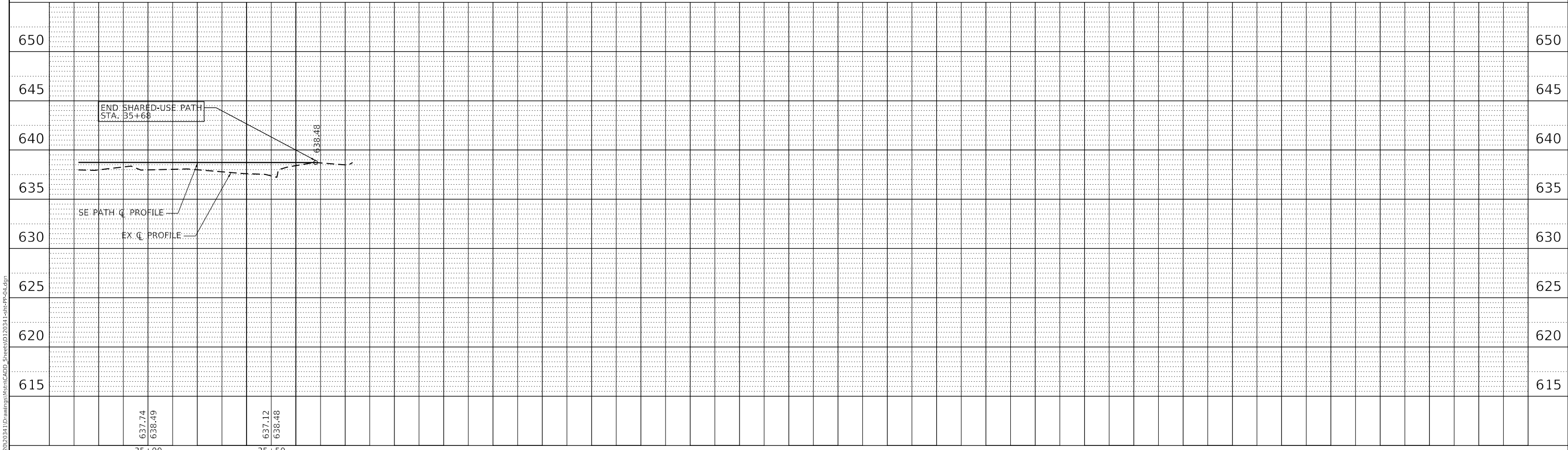
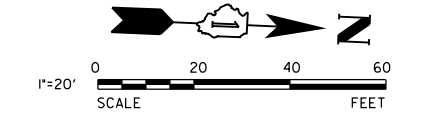
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CONTRACT NO. 61H13				
ILLINOIS FED. AID PROJECT TE-01D1(066)				






PAVING LEGEND	
	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50 - 3" AGGREGATE BASE COURSE, TYPE B - 6"
	DETECTABLE WARNING TILES



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PLOT DATE = 3/31/2021	CHECKED - MJR	REVISED -
	DATE - 3/31/2021	REVISED -

**STATE OF ILLINOIS**  
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**SHARED USE PATH PLAN AND PROFILE**


SCALE: 1"=20'    SHEET 4 OF 4 SHEETS    STA. 34+75.00 TO STA. 38+81.41

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2689	16-00095-00-BT	COOK	54	17
CONTRACT NO. 61H13				
ILLINOIS FED. AID PROJECT TE-01D1(066)				


	STATION	OFFSET	ELEVATION
A	17+39.84	5.00' LT	654.92 ME
B	17+39.84	5.08' RT	655.04 ME
C	17+57.02	4.90' LT	655.52 ME EOP
D	17+55.20	5.00' LT	655.51 BOC
E	17+55.83	5.12' RT	655.58 ME EOP
F	17+54.61	5.08' RT	655.57 BOC
G	18+41.98	4.51' LT	654.31 ME
H	18+49.13	5.00' RT	654.34 ME
I	18+56.71	5.00' LT	654.25
J	18+56.71	5.00' LT	654.10

**LEGEND**

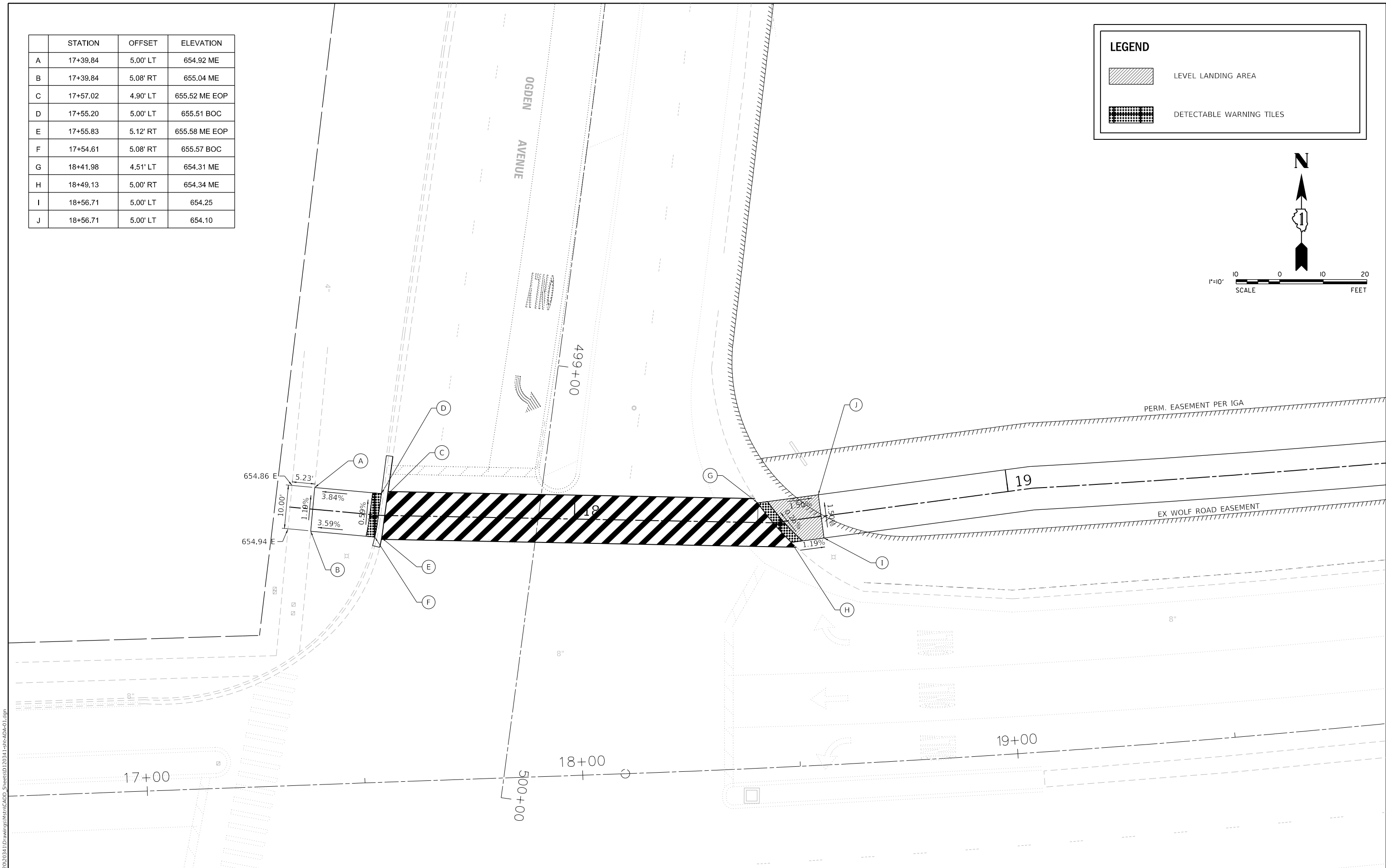
 LEVEL LANDING AREA

 DETECTABLE WARNING TILES


**N**



1"=10'  
SCALE  
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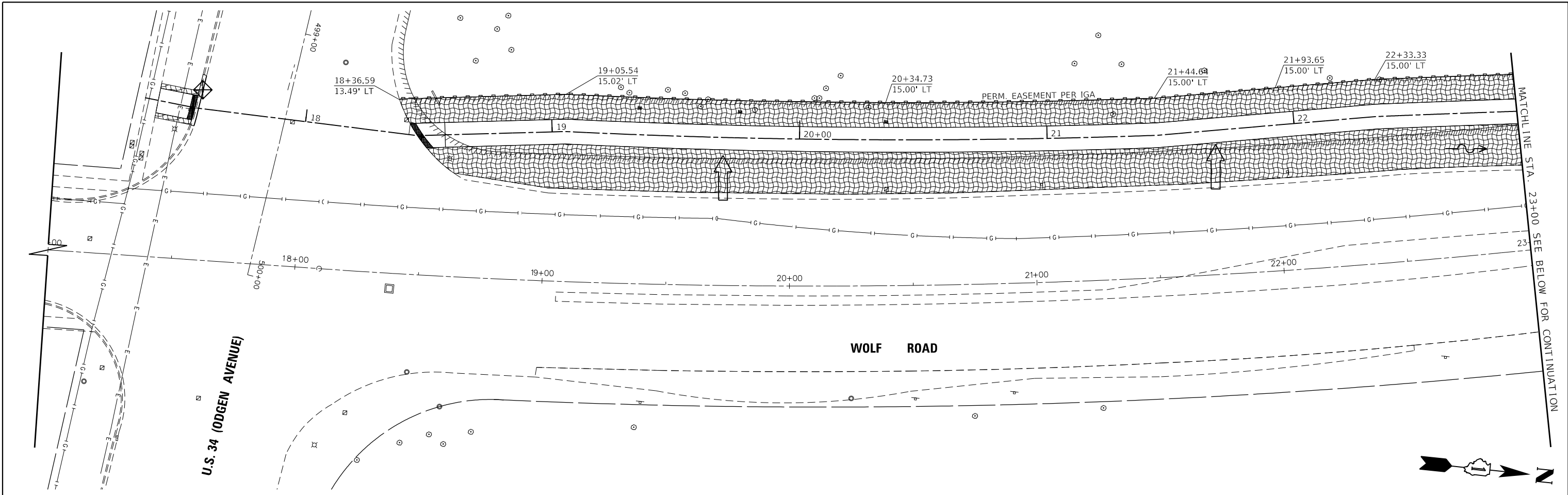
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	DATE - 3/31/2021	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>ADA DETAILS</b>	
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2689	16-00095-00-BT	COOK	54	18
CONTRACT NO. 61H13				
ILLINOIS FED. AID PROJECT TE-01D1(066)				



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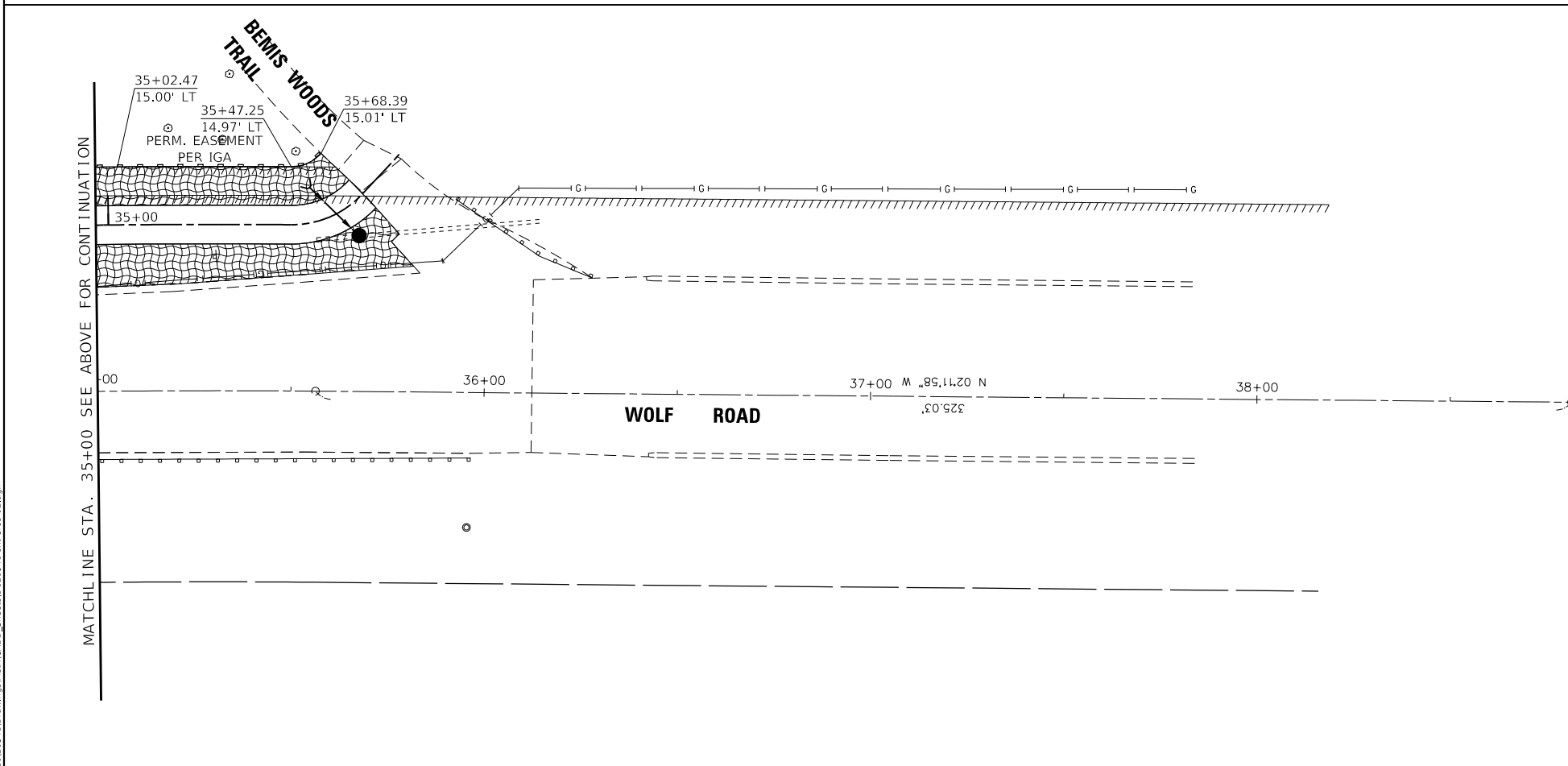
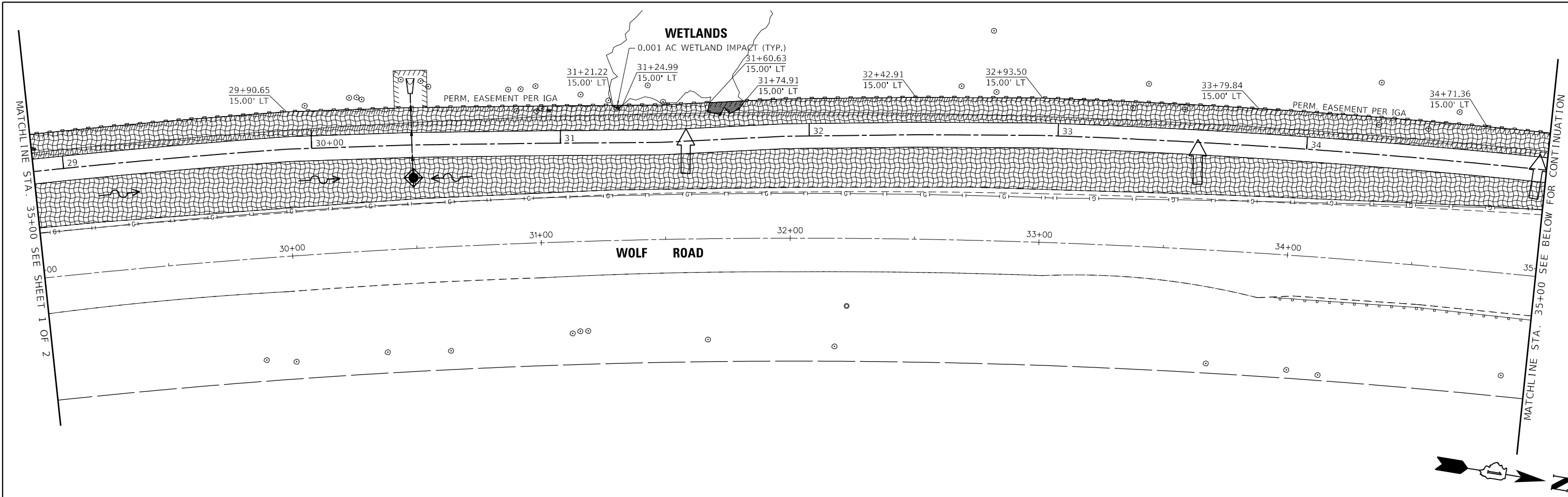
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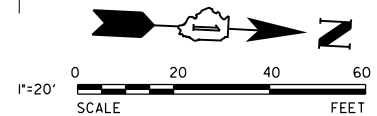
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**EROSION AND SEDIMENT CONTROL / SWPP PLAN**  
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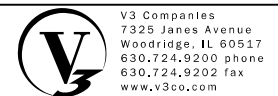
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2689	16-00122-00-BT	COOK	54	19
CONTRACT NO. 61H13				
ILLINOIS FED. AID PROJECT TE-01D1(066)				



EROSION CONTROL LEGEND	
	INLET FILTER BASKET
	DITCH FLOW
	SHEET FLOW
	PERIMETER EROSION BARRIER
	TEMPORARY EROSION CONTROL BLANKET
	TEMPORARY EROSION CONTROL SEEDING
	TREE TRUNK PROTECTION



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PLOT DATE = 3/31/2021	CHECKED - MJR	REVISED -
	DATE - 3/31/2021	REVISED -

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

EROSION AND SEDIMENT CONTROL / SWPP PLAN			
SCALE: 1"=20'	SHEET 2 OF 2 SHEETS	STA. 35+00.00	TO STA. 100+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2689	16-00122-00-BT	COOK	54	20
CONTRACT NO. 61H13				
ILLINOIS FED. AID PROJECT TE-01D1(066)				

**STORM WATER POLLUTION PREVENTION NOTES**

**1. SITE DESCRIPTION:**

- A. THE CONSTRUCTION ACTIVITY WILL INCLUDE THE CONSTRUCTION OF A SHARED USE PATH ALONG THE WEST SIDE OF WOLF ROAD.
- B. THE INTENDED SEQUENCE OF CONSTRUCTION ACTIVITIES IS AS FOLLOWS: 1) INSTALL SILT FENCE, 2) CLEARING AND GRUBBING, 3) STRIPPING OF TOPSOIL, 4) MASS GRADING AND SOIL AMENDMENT, 5) PATH AND DRAINAGE CONSTRUCTION, 6) FINE GRADING AND TOPSOIL PLACEMENT, 7) SEEDING AND EROSION CONTROL BLANKET, AND 8) SILT FENCE REMOVAL WHEN TURF IS ESTABLISHED.
- C. THE PROJECT AREA THAT IS EXPECTED TO BE DISTURBED BY GRADING, OR OTHER ACTIVITIES IS APPROXIMATELY 1.5 ACRES.
- D. THE RUNOFF COEFFICIENT OF THE SITE AFTER CONSTRUCTION ACTIVITIES ARE COMPLETED IS ESTIMATED TO BE 0.51. THE SOIL TYPES THAT ARE PREVALENT ON THE SITE ARE ALFIC ADARENTS, BLOUNT SILT LOAM, AND OZAUKEE SILT LOAM. THE PROJECT CONSISTS OF PREDOMINANTLY HYDROLOGIC GROUP C SOILS ACCORDING TO THE SOIL SURVEY OF COOK COUNTY.
- E. THIS PLAN INDICATES DRAINAGE PATTERNS AND APPROXIMATE SLOPES ANTICIPATED BEFORE AND AFTER MAJOR GRADING ACTIVITIES, LOCATIONS WHERE VEHICLES ENTER AND EXIT THE SITE AND CONTROLS TO PREVENT OFFSITE SEDIMENT TRACKING, AREAS OF SOIL DISTURBANCE, THE LOCATION OF MAJOR STRUCTURAL AND NONSTRUCTURAL CONTROLS IDENTIFIED IN HE PLAN, THE LOCATION OF AREAS WHERE STABILIZATION PRACTICES ARE EXPECTED TO OCCUR, AND LOCATIONS WHERE STORM WATER IS DISCHARGED.
- F. THE RECEIVING WATER IS SALT CREEK.

**2. CONTROLS:**

A. EROSION AND SEDIMENT CONTROLS.

(I) STABILIZATION PRACTICES

- THE SILT FENCE WILL BE INSTALLED BEFORE GRADING ACTIVITIES BEGIN.
  - INLET FILTERS WILL BE INSTALLED FOR ALL OPEN LID STORM SEWER STRUCTURES AS SHOWN ON THE EROSION CONTROL / SWPPP PLAN OR AS NEEDED AS CONSTRUCTION PROGRESSES.
  - ALL DISTURBED AREAS OF THE SITE SHALL BE BROUGHT TO FINAL GRADE, RESPREAD WITH TOPSOIL AND ESTABLISHED WITH PERMANENT VEGETATION AS SOON AS PRACTICABLE
  - THESE CONTROLS SHALL BE ACTIVELY MAINTAINED UNTIL FINAL STABILIZATION OF THOSE PORTIONS OF THE SITE UPWARD OF THE PERIMETER CONTROL EXCEPT AS PROVIDED IN PARAGRAPHS (A) AND (B) BELOW. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED.
- (A) WHERE THE INITIATION OF STABILIZATION MEASURES BY THE 14TH DAY AFTER CONSTRUCTION ACTIVITY TEMPORARILY OR PERMANENTLY CEASE IS PRECLUDED BY SNOW COVER, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE.
- (B) WHERE CONSTRUCTION ACTIVITY WILL RESUME ON A PORTION OF THE SITE WITHIN 7 DAYS FROM WHEN ACTIVITIES CEASED, (E.G. THE TOTAL TIME PERIOD THAT CONSTRUCTION ACTIVITY IS TEMPORARILY CEASED IS LESS THAN 7 DAYS) THEN STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE BY THE 7TH DAY AFTER CONSTRUCTION ACTIVITY TEMPORARILY CEASED.

THE CONTRACTOR SHALL PROVIDE TEMPORARY STABILIZATION ON STOCKPILES WHERE CONSTRUCTION ACTIVITY WILL NOT RESUME FOR 3 DAYS.

(II) STRUCTURAL PRACTICES

- DISTURBED AREAS OF THE SITE SHALL BE GRADED TO DRAIN TO THE PROPOSED DRAINAGE STRUCTURES.
- SILT FENCE SHALL BE INSTALLED DOWNSTREAM OF ANY AREAS THAT DO NOT DRAIN THROUGH THE STORM WATER FACILITIES. SILT FENCE SHALL BE ACTIVELY MAINTAINED UNTIL FINAL STABILIZATION OF THOSE PORTIONS OF THE SITE UPWARD OF THE PERIMETER CONTROL.

B. STORM WATER MANAGEMENT

- (I) THE SITE CURRENTLY DRAINS VIA OVERLAND FLOW TO THE WEST. DUE TO THE FACT THAT ONLY A VERY SMALL AMOUNT OF IMPERVIOUS AREA IS BEING ADDED, NO STORMWATER DETENTION IS PROPOSED.
- (II) EXISTING DRAINAGE PATTERNS SHOULD BE MAINTAINED.

C. OTHER CONTROLS.

- (I) WASTE DISPOSAL. NO SOLID MATERIALS, INCLUDING BUILDING MATERIALS, SHALL BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.
- (II) THE CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH APPLICABLE STATE AND/OR LOCAL WASTE DISPOSAL AND SANITARY SEWER OR SEPTIC SYSTEM REGULATIONS.

D. ENVIRONMENTAL PROTECTION AGENCY'S ILLINOIS URBAN MANUAL, LATEST EDITION IN THE EVENT OF CONFLICTING SPECIFICATIONS WITH REGARD TO SITEWORK ISSUES DESIGNED BY THE ENGINEER, THE MORE STRINGENT REQUIREMENT SHALL GOVERN.

**3. MAINTENANCE:**

THE CONTRACTOR SHALL MAINTAIN THE SEDIMENT AND EROSION CONTROL MEASURES IDENTIFIED ON THIS PLAN UNTIL THE SITE IS STABILIZED. ITEMS IN NEED OF REPAIR SHALL BE ADDRESSED AS SOON AS PRACTICABLE. MAINTENANCE ITEMS INCLUDE STRAW BALES, INLET FILTERS, SILT FENCE, CONSTRUCTION ENTRANCES, AND VEGETATION THROUGHOUT THE SITE. FURTHERMORE, ANY SOIL THAT IS TRANSPORTED OFFSITE SHALL BE CLEANED DAILY, OR AS REQUESTED BY THE LOCAL AGENCY.

**4. INSPECTIONS:**

- A. QUALIFIED PERSONNEL (PROVIDED BY THE PERMITTEE) SHALL INSPECT DISTURBED AREAS OF THE CONSTRUCTION SITE THAT HAVE NOT BEEN FINALLY STABILIZED, STRUCTURAL CONTROL MEASURES, AND LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.5 INCHES OR GREATER OR EQUIVALENT SNOWFALL. QUALIFIED PERSONNEL MEANS A PERSON KNOWLEDGEABLE IN THE PRINCIPLES AND PRACTICE OF EROSION AND SEDIMENT CONTROLS, SUCH AS A LICENSED PROFESSIONAL ENGINEER OR OTHER KNOWLEDGEABLE PERSON WHO POSSESSES THE SKILLS TO ASSESS CONDITIONS AT THE CONSTRUCTION SITE THAT COULD IMPACT STORM WATER QUALITY AND TO ASSESS THE EFFECTIVENESS OF ANY SEDIMENT AND EROSION CONTROL MEASURES SELECTED TO CONTROL THE QUALITY OF STORM WATER DISCHARGES FROM THE CONSTRUCTION ACTIVITIES
- B. DISTURBED AREAS AND AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION SHALL BE INSPECTED FOR EVIDENCE OF OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM. EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATERS. LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFFSITE SEDIMENT TRACKING. WOLF ROAD SHOULD BE KEPT CLEAN AND FREE OF DEBRIS AT ALL TIMES.
- C. BASED ON THE RESULTS OF THE INSPECTION, THE DESCRIPTION OF POTENTIAL POLLUTANT SOURCES IDENTIFIED IN THE PLAN IN ACCORDANCE WITH PARAGRAPH 1 (SITE DESCRIPTION) OF THESE NOTES AND POLLUTION PREVENTION MEASURES IDENTIFIED IN THE PLAN IN ACCORDANCE WITH PARAGRAPH 2 (CONTROLS) OF THESE NOTES SHALL BE REVISED AS APPROPRIATE AS SOON AS PRACTICABLE AFTER SUCH INSPECTION. SUCH MODIFICATIONS SHALL PROVIDE FOR TIMELY IMPLEMENTATION OF ANY CHANGES TO THE PLAN WITHIN 7 CALENDAR DAYS FOLLOWING THE INSPECTION.
- D. A REPORT SUMMARIZING THE SCOPE OF THE INSPECTION, NAME(S) AND QUALIFICATIONS OF PERSONNEL MAKING THE INSPECTION, THE DATE(S) OF THE INSPECTION, MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE STORM WATER POLLUTION PREVENTION PLAN, AND ACTIONS TAKEN IN ACCORDANCE WITH PARAGRAPH C ABOVE SHALL BE MADE AND RETAINED AS PART OF THE STORM WATER POLLUTION PREVENTION PLAN FOR AT LEAST THREE YEARS FROM THE DATE THAT THE PERMIT COVERAGE EXPIRES OR IS TERMINATED THE REPORT SHALL BE SIGNED BY THE PERMITTEE.
- E. THE PERMITTEE SHALL COMPLETE AND SUBMIT WITHIN 5 DAYS AN "INCIDENCE OF NONCOMPLIANCE" (ION) REPORT FOR ANY VIOLATION OF THE STORM WATER POLLUTION PREVENTION PLAN OBSERVED DURING AN INSPECTION CONDUCTED, INCLUDING THOSE NOT REQUIRED BY THE PLAN SUBMISSION. REPORTS SHALL BE ON FORMS PROVIDED BY THE AGENCY AND INCLUDE SPECIFIC INFORMATION ON THE CAUSE OF NONCOMPLIANCE, ACTIONS WHICH WERE TAKEN TO PREVENT ANY FURTHER CAUSES OF NONCOMPLIANCE, AND A STATEMENT DETAILING ANY ENVIRONMENTAL IMPACT THAT MAY HAVE RESULTED FROM THE NONCOMPLIANCE.

F. ALL REPORTS OF NONCOMPLIANCE SHALL BE SIGNED BY THE PERMITTEE.

G. ALL REPORTS OF NONCOMPLIANCE SHALL BE MAILED TO THE AGENCY AT THE FOLLOWING ADDRESS:

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY  
DIVISION OF WATER POLLUTION CONTROL  
COMPLIANCE ASSURANCE SECTION  
1021 NORTH GRAND AVENUE EAST  
POST OFFICE BOX 19276  
SPRINGFIELD, ILLINOIS 62794-9276

**5. NON-STORM WATER DISCHARGES:**

THE FOLLOWING SOURCES OF NON-STORMWATER MAY BE COMBINED WITH STORMWATER DISCHARGES ASSOCIATED WITH THE INDUSTRIAL ACTIVITY ADDRESSED IN THIS PLAN.

- FIRE FIGHTING ACTIVITIES
- WATER MAIN HYDRANT FLUSHING
- WATERING FOR DUST CONTROL
- IRRIGATION DRAINAGE FOR VEGETATIVE GROWTH
- WASH WATER WHERE DETERGENTS ARE NOT USED
- UNCONTAMINATED GROUND WATER

NON-FIRE FIGHTING DISCHARGES FROM WATER MAINS AND PUMPS SHALL NOT BE PERMITTED TO FLOW DIRECTLY ONTO THE SOIL WITHOUT ENERGY DISSIPATORS SUFFICIENT TO REDUCE VELOCITIES TO A NON-EROSIVE RATE. ALL WATER PUMPED OF WHICH IS OTHERWISE DISCHARGED FROM THE SITE DURING CONSTRUCTION DEWATERING SHALL BE FILTERED AND A MEANS PROVIDED TO REDUCE EROSION.

**6. RETENTION OF RECORDS:**

- A. THE PERMITTEE SHALL RETAIN COPIES OF STORM WATER POLLUTION PREVENTION PLANS AND ALL REPORTS AND NOTICES REQUIRED BY THIS PERMIT, AND RECORDS OF ALL DATA USED TO COMPLETE THE NOTICE OF INTENT TO BE COVERED BY THIS PERMIT, FOR A PERIODS OF AT LEAST THREE YEARS FROM THE DATE THAT THE PERMIT COVERAGE EXPIRES OR IS TERMINATED. THIS PERIOD MAY BE EXTENDED BY REQUEST OF THE AGENCY AT ANY TIME.
- B. THE PERMITTEE SHALL RETAIN A COPY OF THE STORM WATER POLLUTION PREVENTION PLAN.

**7. NOTICE OF TERMINATION**

UPON FINAL STABILIZATION OF THE SITE THE PERMITTEE SHALL SUBMIT A COMPLETED NOTICE OF TERMINATION IN ACCORDANCE WITH NPDES PERMIT NO. ILR10.

**8. CERTIFICATION STATEMENT**

THE FOLLOWING STATEMENT SHALL BE SIGNED PRIOR TO ANY WORK AUTHORIZED BY THE NPDES PERMIT NO. ILR10 IS PERFORMED AT THE SITE. THE UNDERSIGNED IS RESPONSIBLE FOR IMPLEMENTATION OF ALL MEASURES IDENTIFIED ON THIS PLAN.

**CONTRACTOR CERTIFICATION STATEMENT**

I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND THE TERMS AND CONDITIONS OF THE GENERAL NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT (ILR10) THAT AUTHORIZES THE STORMWATER DISCHARGES ASSOCIATED WITH THE INDUSTRIAL ACTIVITY FROM THE CONSTRUCTION SITE IDENTIFIED AS PART OF THIS CERTIFICATION.

DATED THIS \_\_\_\_\_ DAY OF \_\_\_\_\_ 20\_\_\_\_

BY: \_\_\_\_\_ TITLE: \_\_\_\_\_

COMPANY: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

TELEPHONE: \_\_\_\_\_

**ADDITIONAL REQUIRED SIGNATURES:**

OWNER \_\_\_\_\_ DATE \_\_\_\_\_

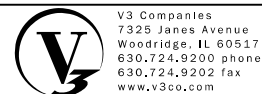
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SUBCONTRACTOR \_\_\_\_\_ DATE \_\_\_\_\_

SUBCONTRACTOR \_\_\_\_\_ DATE \_\_\_\_\_

SUBCONTRACTOR \_\_\_\_\_ DATE \_\_\_\_\_

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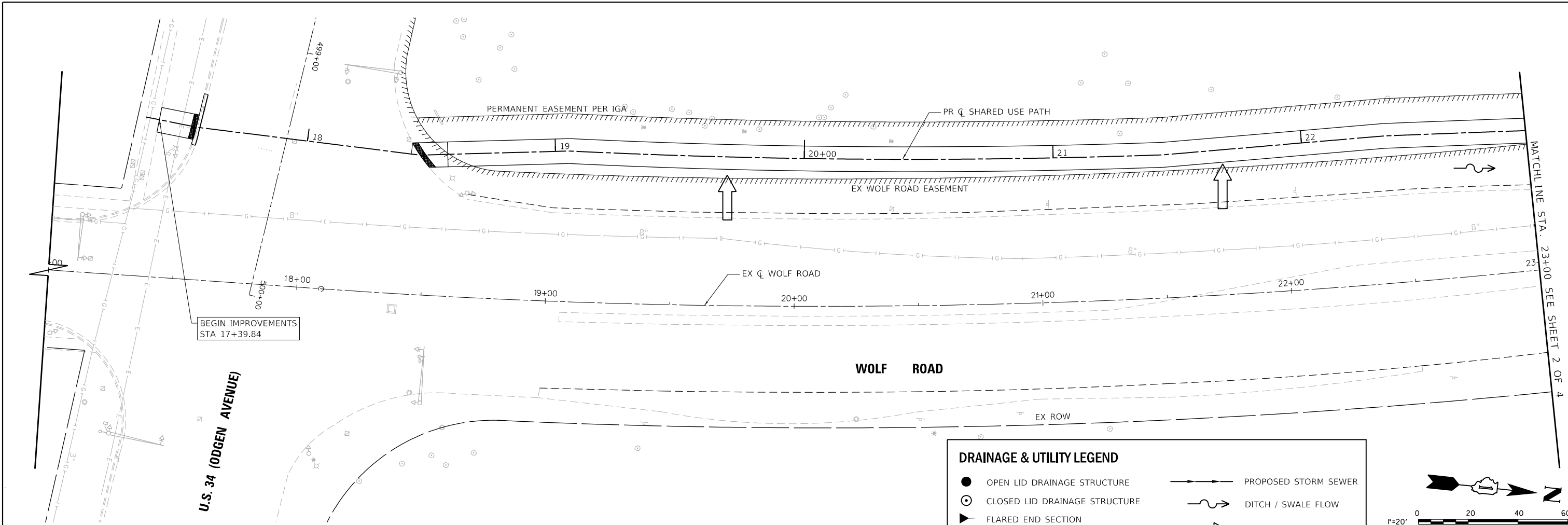
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EROSION CONTROL AND STORM WATER  
PREVENTION POLLUTION PLAN NOTES**

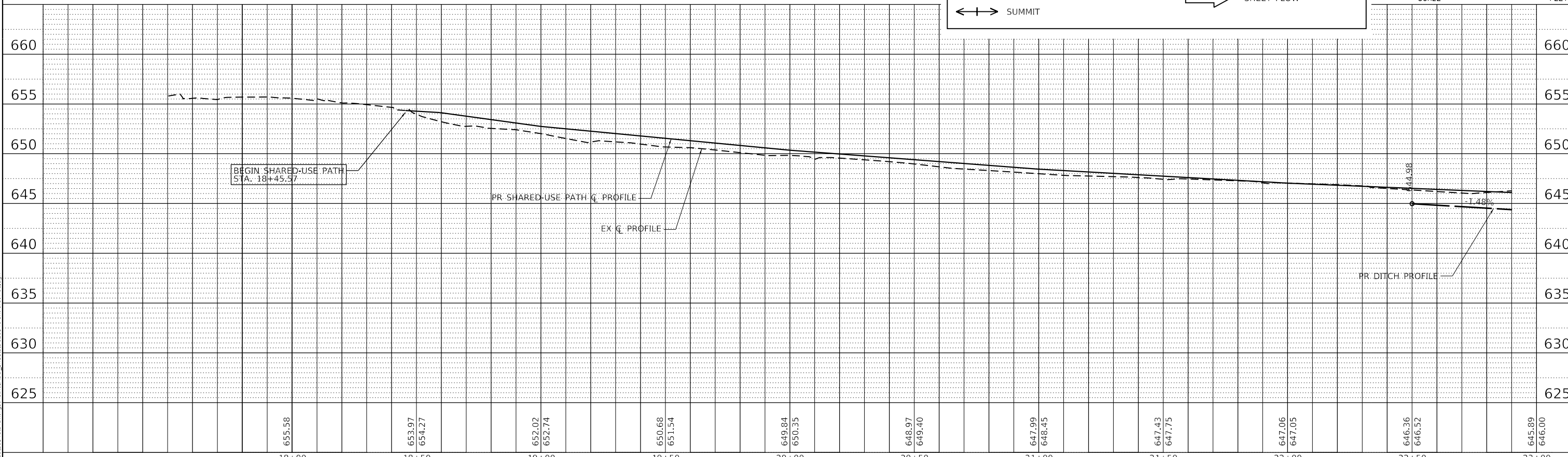
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2689	16-00095-00-BT	COOK	54	21
ILLINOIS FED. AID PROJECT TE-01D1(066)			CONTRACT NO. 61H13	

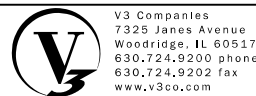


**DRAINAGE & UTILITY LEGEND**

- OPEN LID DRAINAGE STRUCTURE
- ⊙ CLOSED LID DRAINAGE STRUCTURE
- ▶ FLARED END SECTION
- ←+→ SUMMIT
- PROPOSED STORM SEWER
- ↪ DITCH / SWALE FLOW
- ⇨ SHEET FLOW



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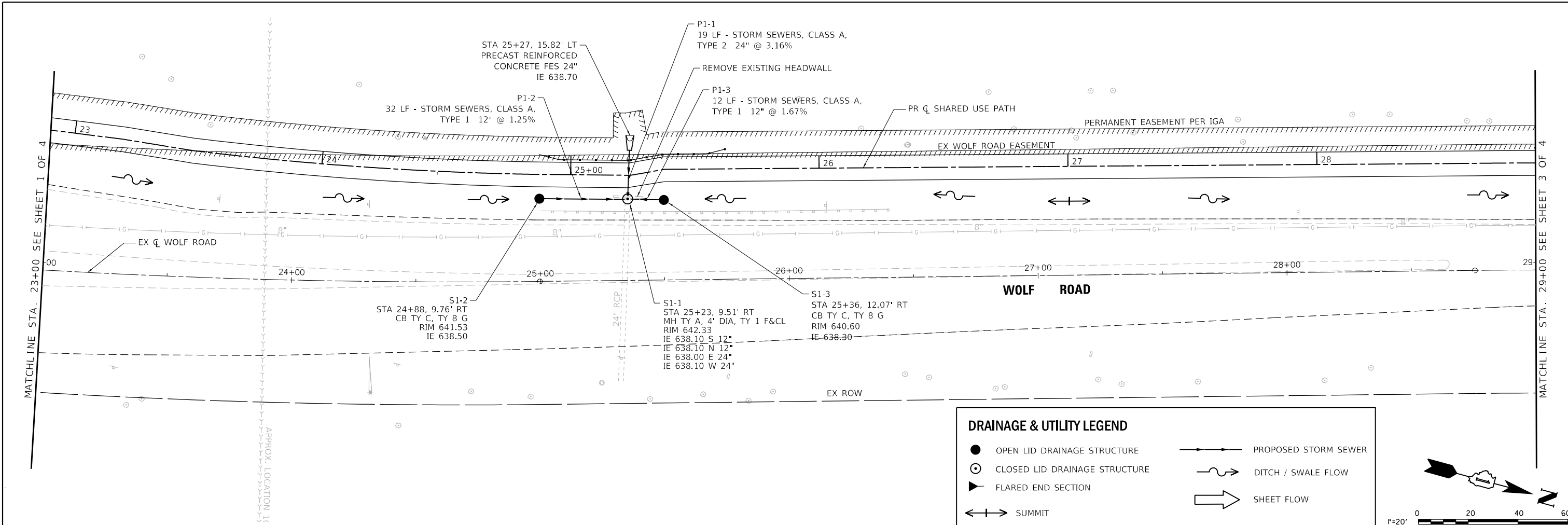
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DESIGNED - CAS	REVISED -
DRAWN - DRP	REVISED -
CHECKED - MJR	REVISED -
DATE - 3/31/2021	REVISED -

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

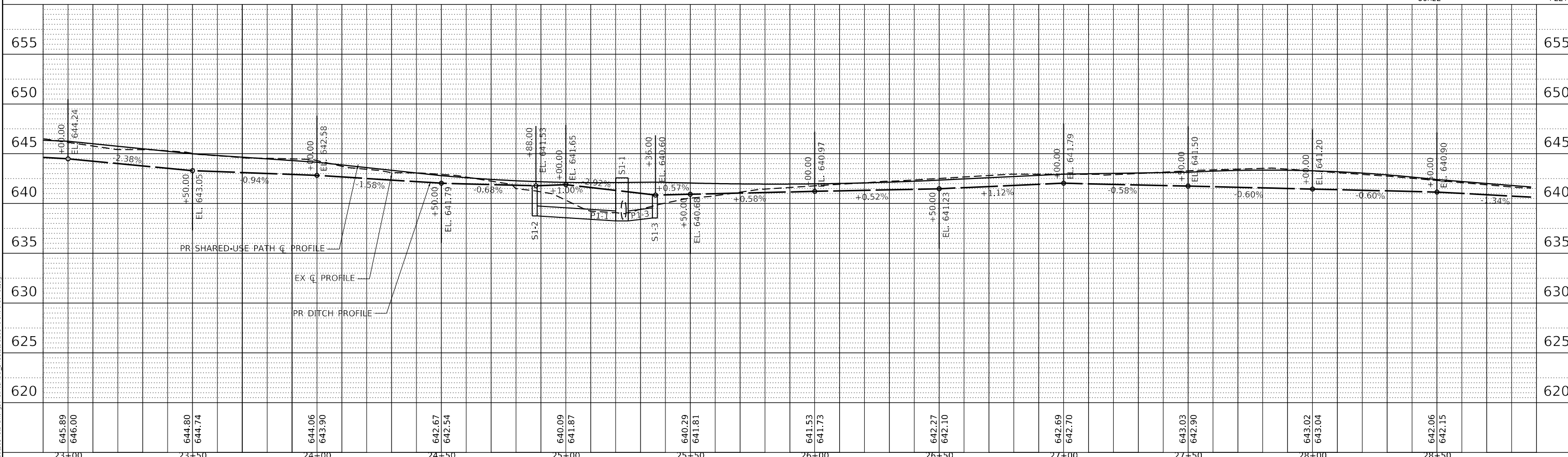
**DRAINAGE AND UTILITY PLAN AND PROFILE**  
 SCALE: 1"=20'    SHEET 1 OF 4 SHEETS    STA. 17+00.00 TO STA. 23+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2689	16-00095-00-BT	COOK	54	22
CONTRACT NO. 61H13				
ILLINOIS FED. AID PROJECT TE-01D1(066)				



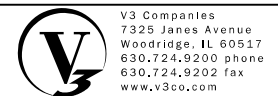
**DRAINAGE & UTILITY LEGEND**

- OPEN LID DRAINAGE STRUCTURE
- CLOSED LID DRAINAGE STRUCTURE
- ▶ FLARED END SECTION
- ↔ SUMMIT
- PROPOSED STORM SEWER
- ~ DITCH / SWALE FLOW
- ⇨ SHEET FLOW



645.89	646.00	644.80	644.74	644.06	643.90	642.67	642.54	640.09	641.87	640.29	641.81	641.53	641.73	642.27	642.10	642.69	642.70	643.03	642.90	643.02	643.04	642.06	642.15
23+00	23+50	24+00	24+50	25+00	25+50	26+00	26+50	27+00	27+50	28+00	28+50												

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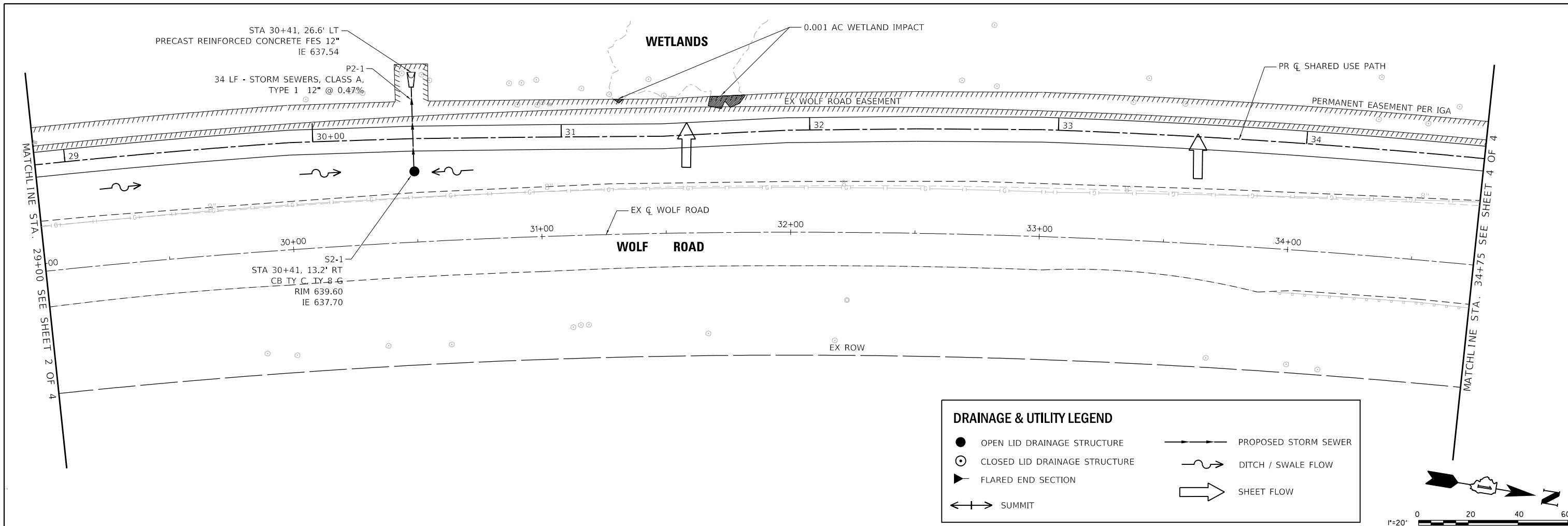
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	DATE - 3/31/2021	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DRAINAGE AND UTILITY PLAN AND PROFILE**

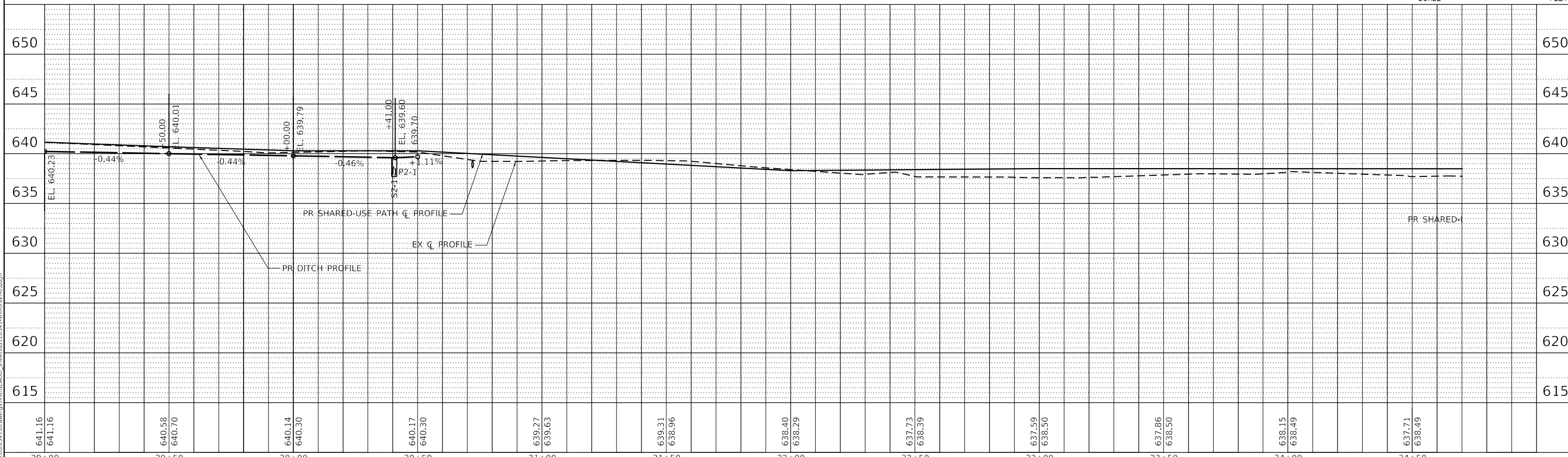
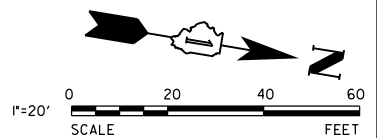
SCALE: 1"=20'    SHEET 2 OF 4 SHEETS    STA. 23+00.00 TO STA. 29+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2689	16-00095-00-BT	COOK	54	23
CONTRACT NO. 61H13				
ILLINOIS FED. AID PROJECT TE-01D11(066)				



**DRAINAGE & UTILITY LEGEND**

- OPEN LID DRAINAGE STRUCTURE
- CLOSED LID DRAINAGE STRUCTURE
- ▶ FLARED END SECTION
- ↔ SUMMIT
- PROPOSED STORM SEWER
- ~ DITCH / SWALE FLOW
- ➔ SHEET FLOW



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

USER NAME = cfigus  
PLOT SCALE = 40'  
PLOT DATE = 3/31/2021

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DATE - 3/31/2021

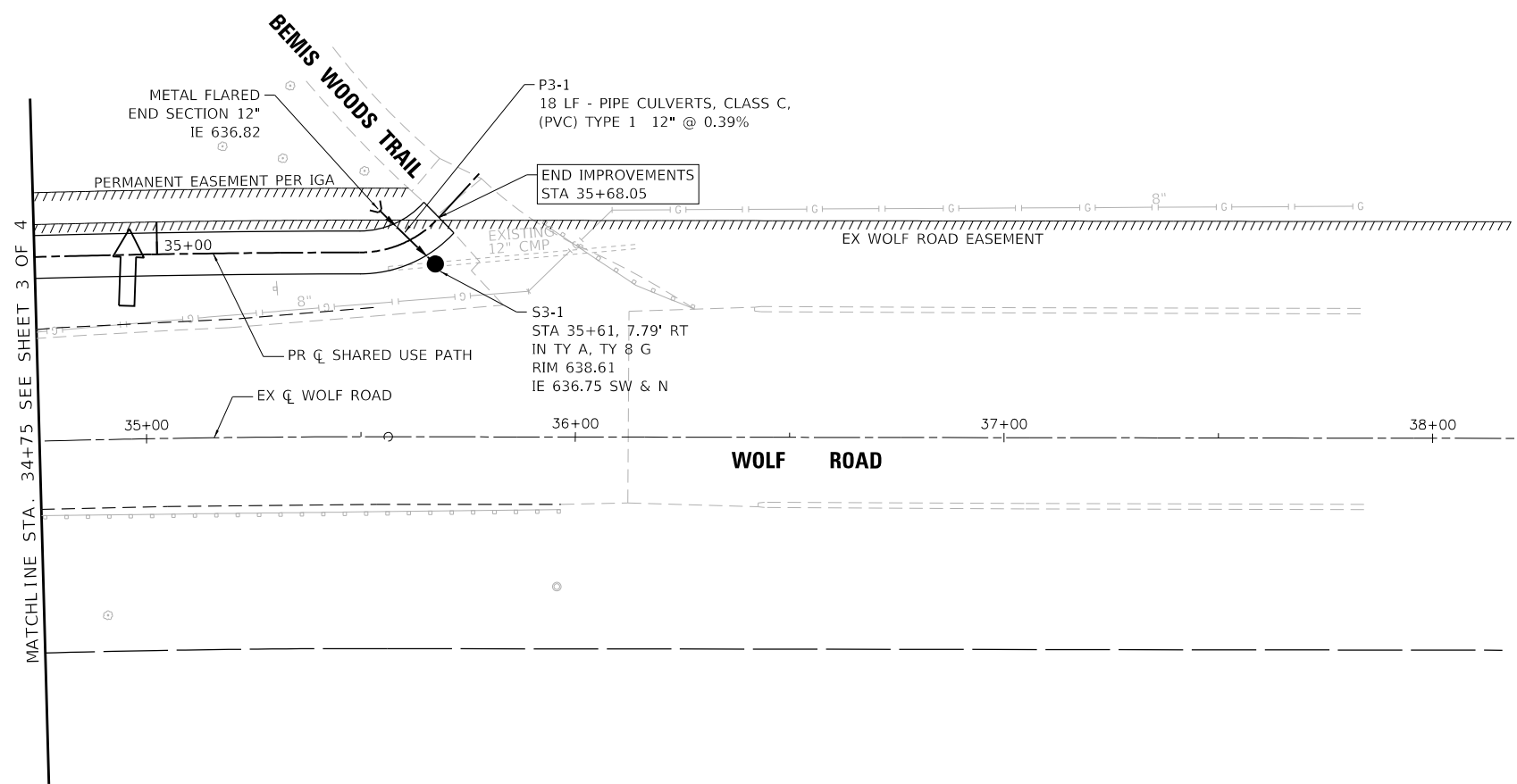
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REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DRAINAGE AND UTILITY PLAN AND PROFILE**  
SCALE: 1"=20' SHEET 3 OF 4 SHEETS STA. 29+00.00 TO STA. 34+75.00

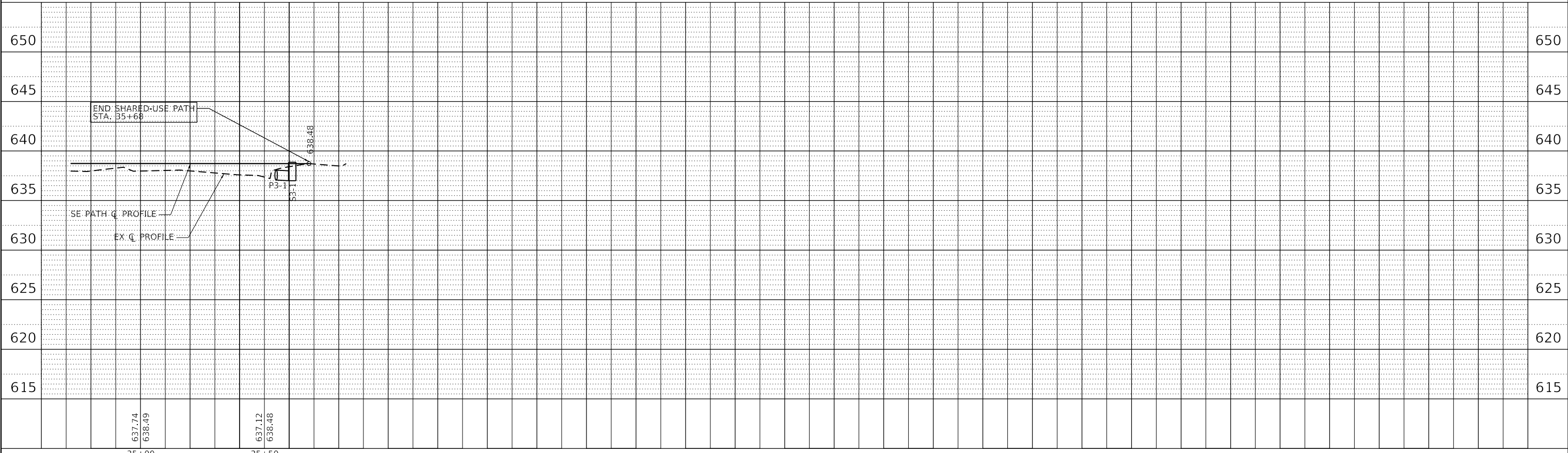
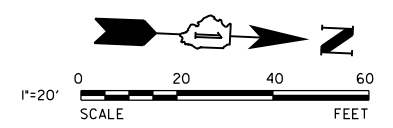
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2689	16-00095-00-BT	COOK	54	24
CONTRACT NO. 61H13				
ILLINOIS FED. AID PROJECT TE-01D1(066)				





**DRAINAGE & UTILITY LEGEND**

- OPEN LID DRAINAGE STRUCTURE
- ⊙ CLOSED LID DRAINAGE STRUCTURE
- ▶ FLARED END SECTION
- ←→ SUMMIT
- PROPOSED STORM SEWER
- ~ DITCH / SWALE FLOW
- ⇨ SHEET FLOW



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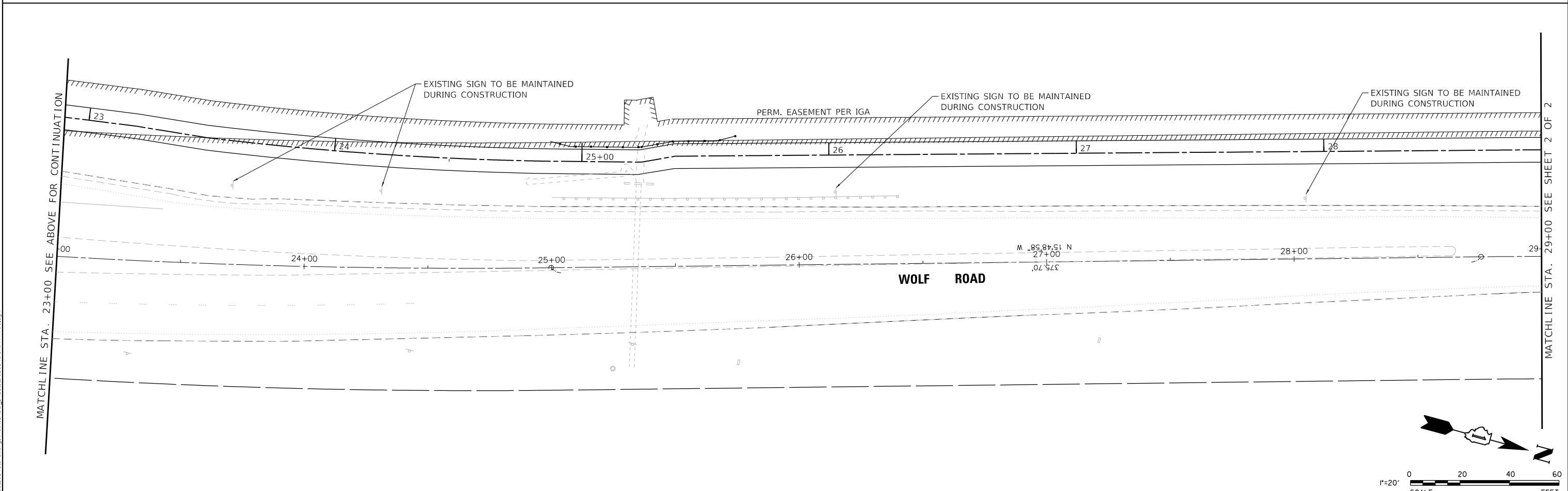
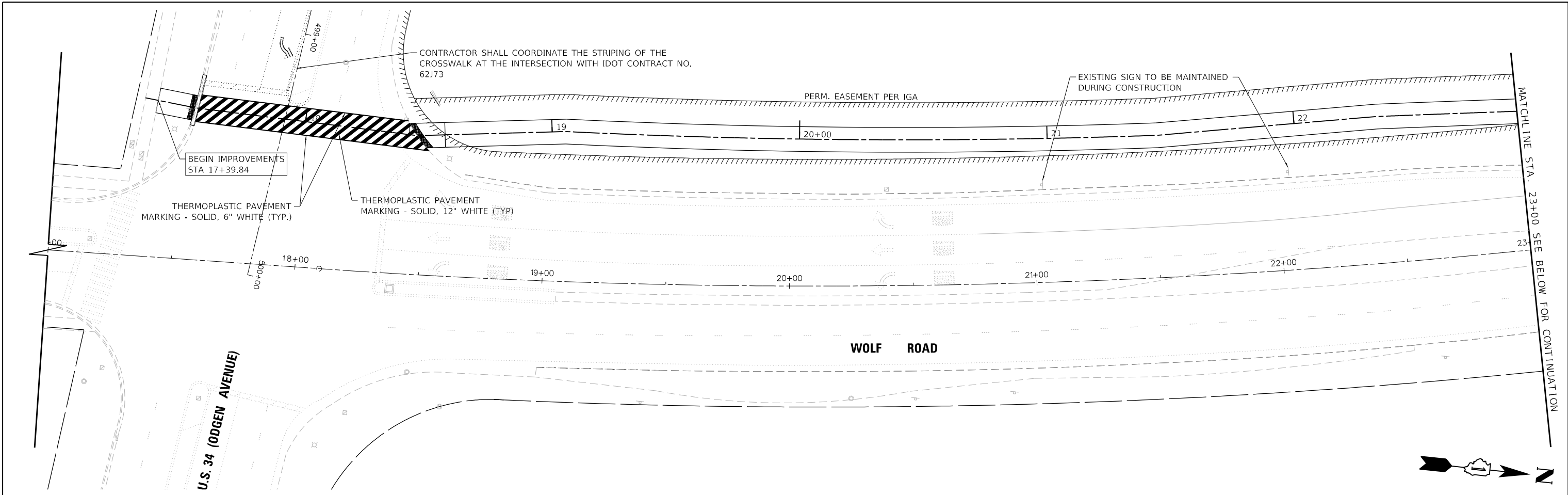
V3 Companies  
 7325 Janes Avenue  
 Woodridge, IL 60517  
 630.724.9200 phone  
 630.724.9202 fax  
 www.v3co.com

USER NAME = cfigus	DESIGNED - CAS	REVISED -
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PLOT DATE = 3/31/2021	CHECKED - MJR	REVISED -
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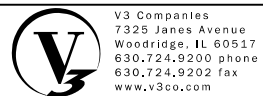
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**DRAINAGE AND UTILITY PLAN AND PROFILE**  
 SCALE: 1"=20'    SHEET 4 OF 4 SHEETS    STA. 34+75.00 TO STA. 38+81.41

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2689	16-00095-00-BT	COOK	54	25
CONTRACT NO. 61H13				
ILLINOIS FED. AID PROJECT TE-01D1(066)				



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USER NAME = cfigus	DESIGNED - CAS	REVISED -
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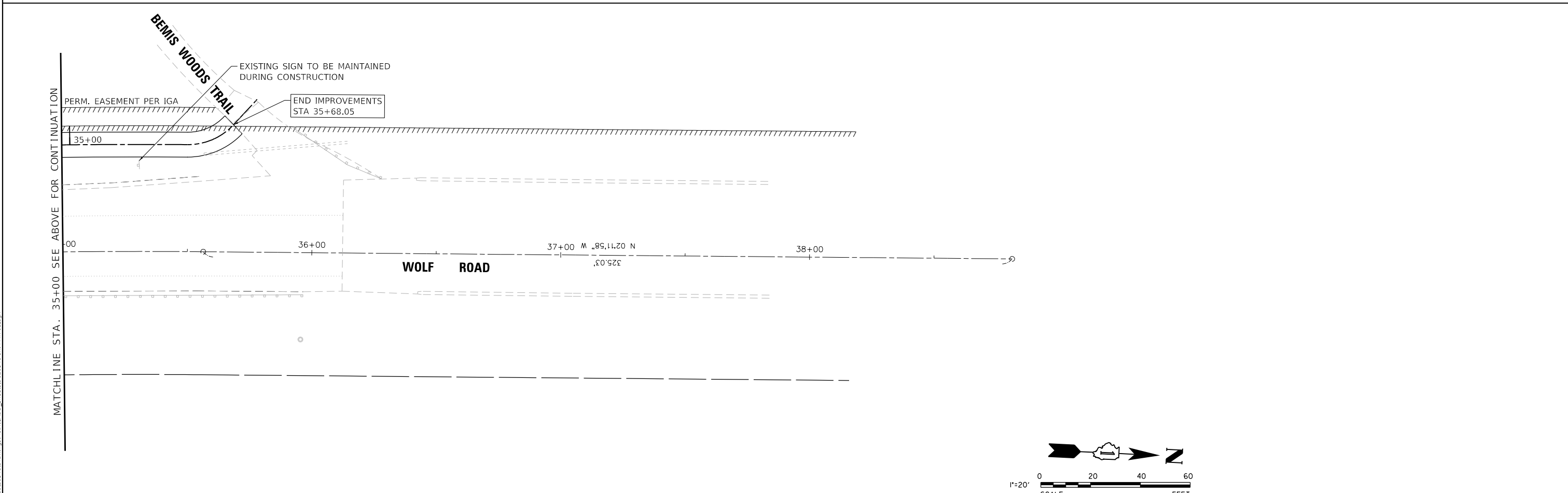
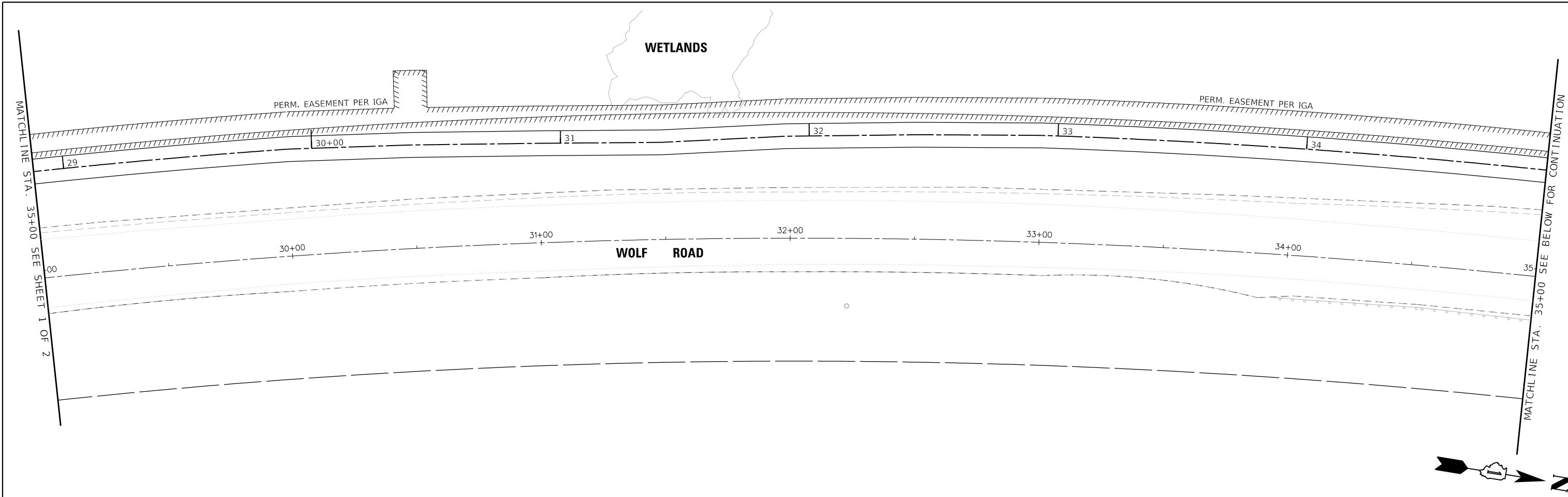
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CHECKED - MJR	REVISED -
DATE - 3/31/2021	REVISED -

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


**SIGNING AND PAVEMENT MARKING PLAN**

SCALE: 1"=20'    SHEET 1 OF 2 SHEETS    STA. 17+00.00 TO STA. 29+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2689	16-00122-00-BT	COOK	54	26
CONTRACT NO. 61H13				
ILLINOIS FED. AID PROJECT TE-01D1(066)				



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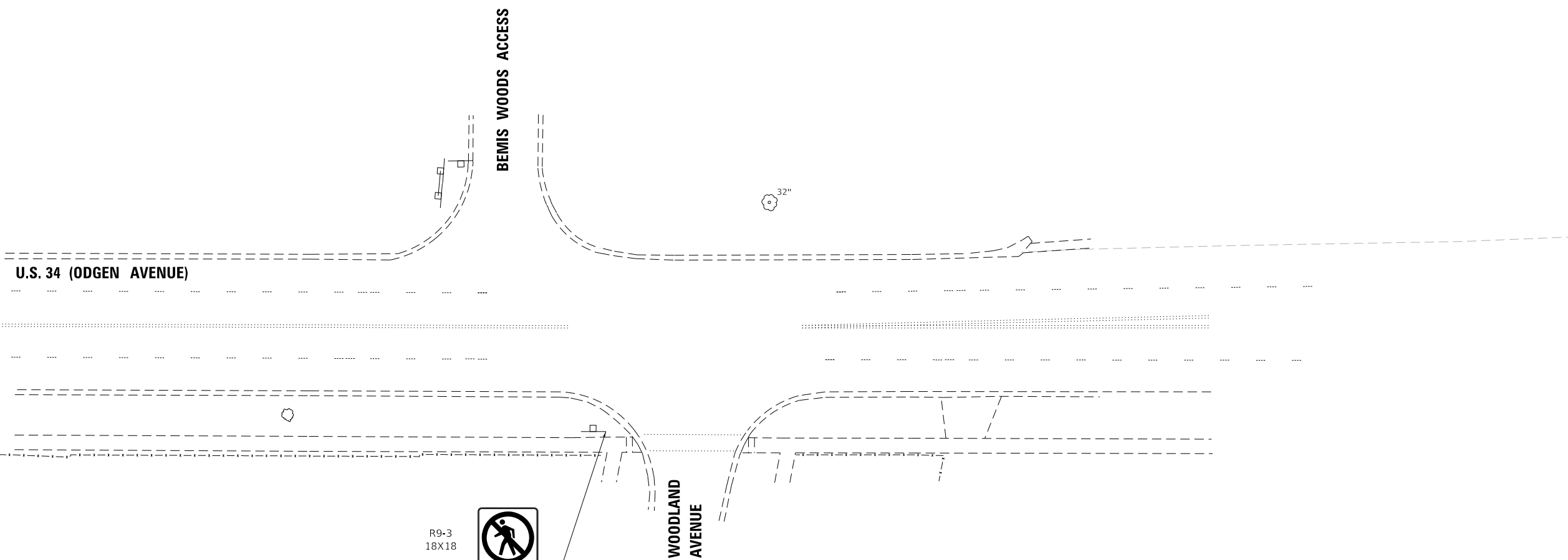

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USER NAME = cfigus	DESIGNED - CAS	REVISED -
PLOT SCALE = 40'	DRAWN - DRP	REVISED -
PLOT DATE = 3/31/2021	CHECKED - MJR	REVISED -
	DATE - 3/31/2021	REVISED -

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

<b>SIGNING AND PAVEMENT MARKING PLAN</b>			
SCALE: 1"=20'	SHEET 2 OF 2 SHEETS	STA. 35+00.00	TO STA. 100+00.00


F.A.U. RTE. 2689	SECTION 16-00122-00-BT	COUNTY COOK	TOTAL SHEETS 54	SHEET NO. 27
CONTRACT NO. 61H13				
ILLINOIS FED. AID PROJECT TE-01D1(066)				



- R9-3  
18X18
- R9-3bP  
18X12
- D3-1  
24X12



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 630.724.9202 fax  
 www.v3co.com

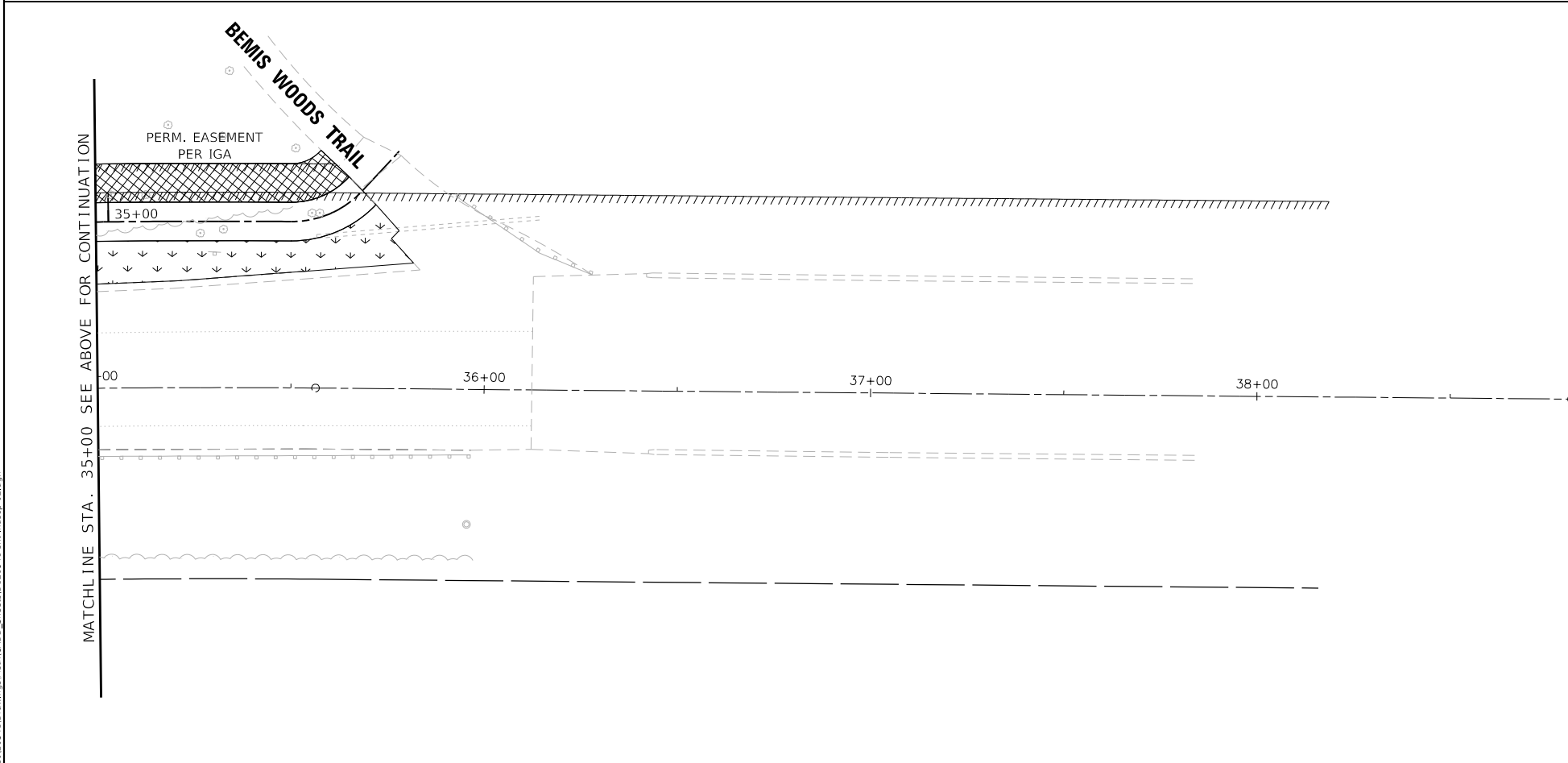
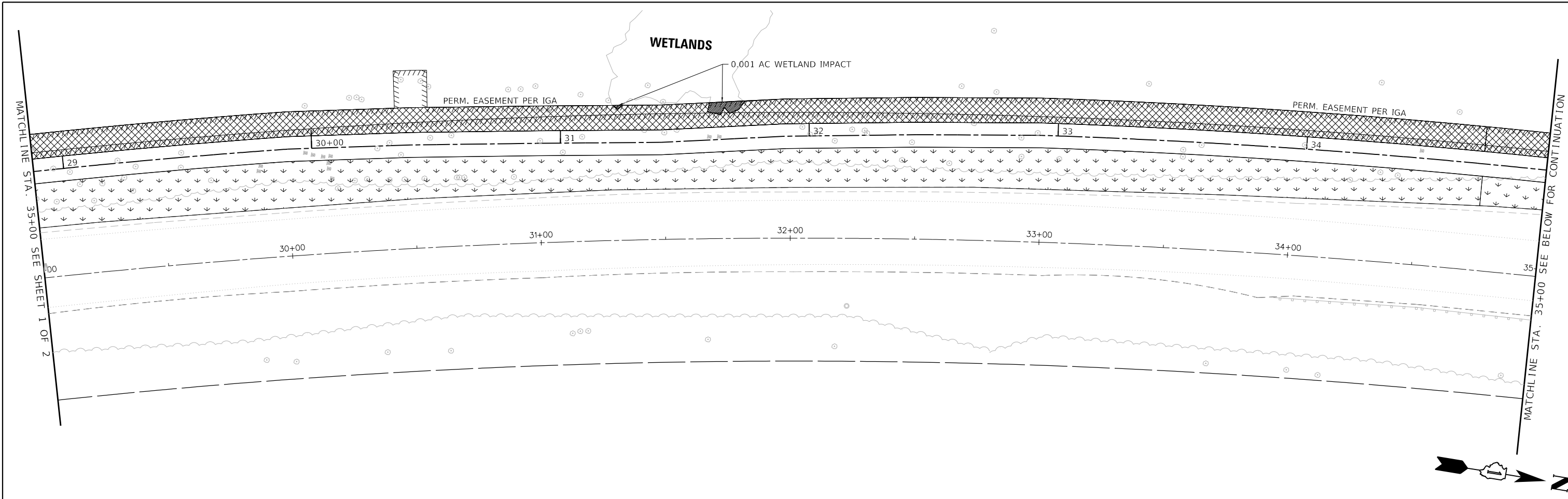
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PLOT DATE = 3/31/2021	DATE - 3/31/2021	REVISED -

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

**SIGNING AND PAVEMENT MARKING PLAN**  
 SCALE: 1"=20'    SHEET 3 OF 3 SHEETS    STA. 100+00.00 TO STA. 100+00.00

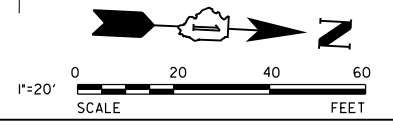
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2689	16-00095-00-BT	COOK	54	28
CONTRACT NO. 61H13				
ILLINOIS FED. AID PROJECT TE-01D1(066)				





**LANDSCAPING LEGEND**

	SEEDING, CLASS 2A TOPSOIL FURNISH AND PLACE, 4" EROSION CONTROL BLANKET (SPECIAL)
	SEEDING, CLASS 4A (MODIFIED) TOPSOIL FURNISH AND PLACE, 4" EROSION CONTROL BLANKET (SPECIAL)



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USER NAME = cfigus	DESIGNED - CAS	REVISED -
PLOT SCALE = 40'	DRAWN - DRP	REVISED -
PLOT DATE = 3/31/2021	CHECKED - MJR	REVISED -
	DATE - 3/31/2021	REVISED -

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

**LANDSCAPING PLAN**

SCALE: 1"=20'    SHEET 2 OF 2 SHEETS    STA. 35+00.00    TO STA. 100+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2689	16-00122-00-BT	COOK	54	30
CONTRACT NO. 61H13				
ILLINOIS FED. AID PROJECT TE-01D1(066)				



**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.

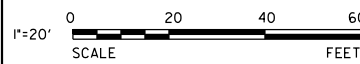
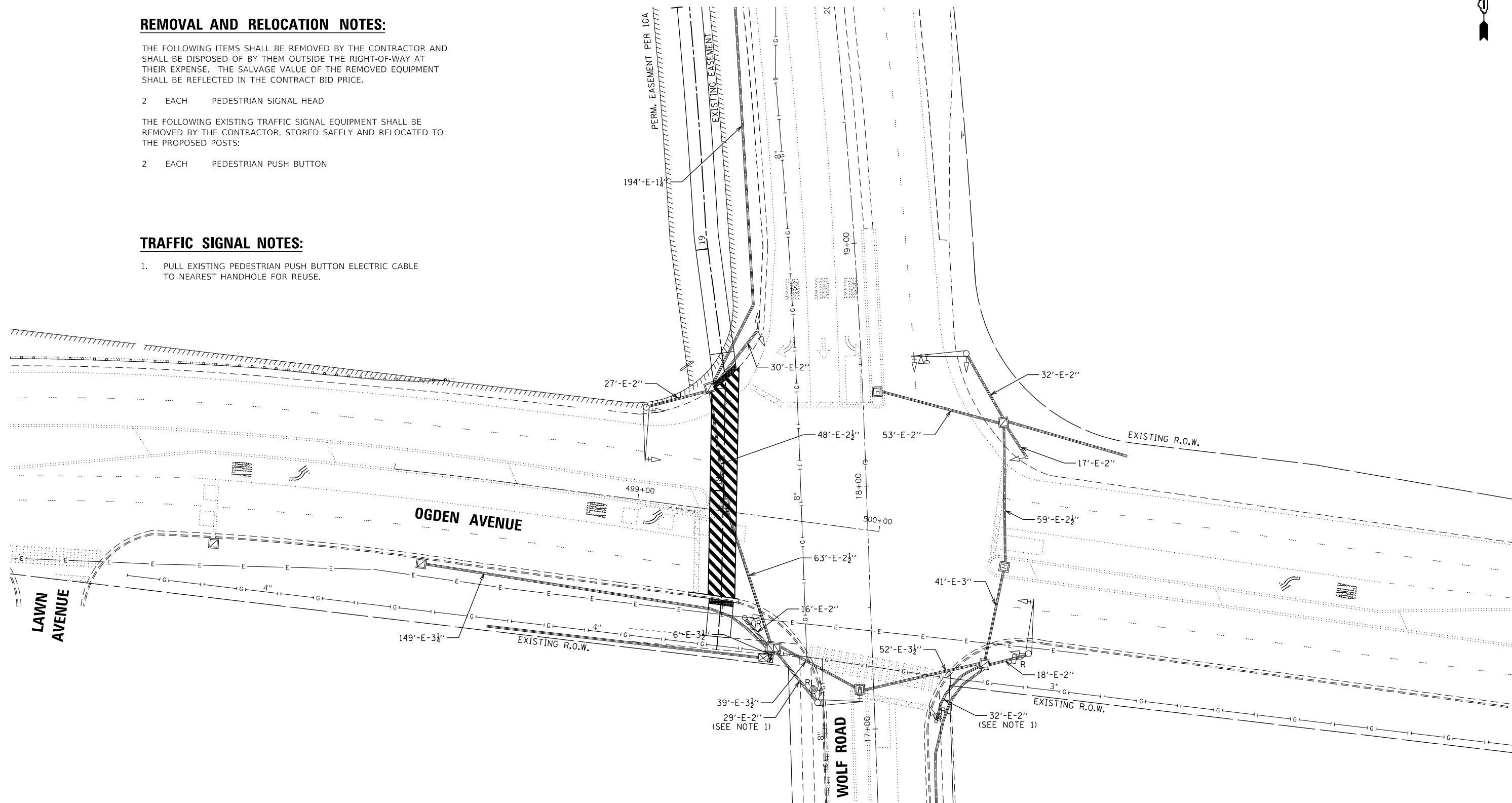
2 EACH PEDESTRIAN SIGNAL HEAD

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, STORED SAFELY AND RELOCATED TO THE PROPOSED POSTS:

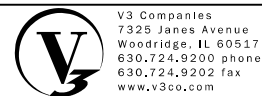
2 EACH PEDESTRIAN PUSH BUTTON

**TRAFFIC SIGNAL NOTES:**

1. PULL EXISTING PEDESTRIAN PUSH BUTTON ELECTRIC CABLE TO NEAREST HANDHOLE FOR REUSE.



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 630.724.9202 fax  
 www.v3co.com

USER NAME = cfigus  
 PLOT SCALE = 40'  
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DRAWN - DRP	REVISED -
CHECKED - MJR	REVISED -
DATE - 3/31/2021	REVISED -

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

**TRAFFIC SIGNAL REMOVAL PLAN**  
**US ROUTE 34 (OGDEN AVENUE) AND WOLF ROAD**

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

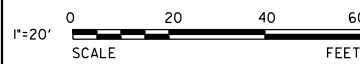
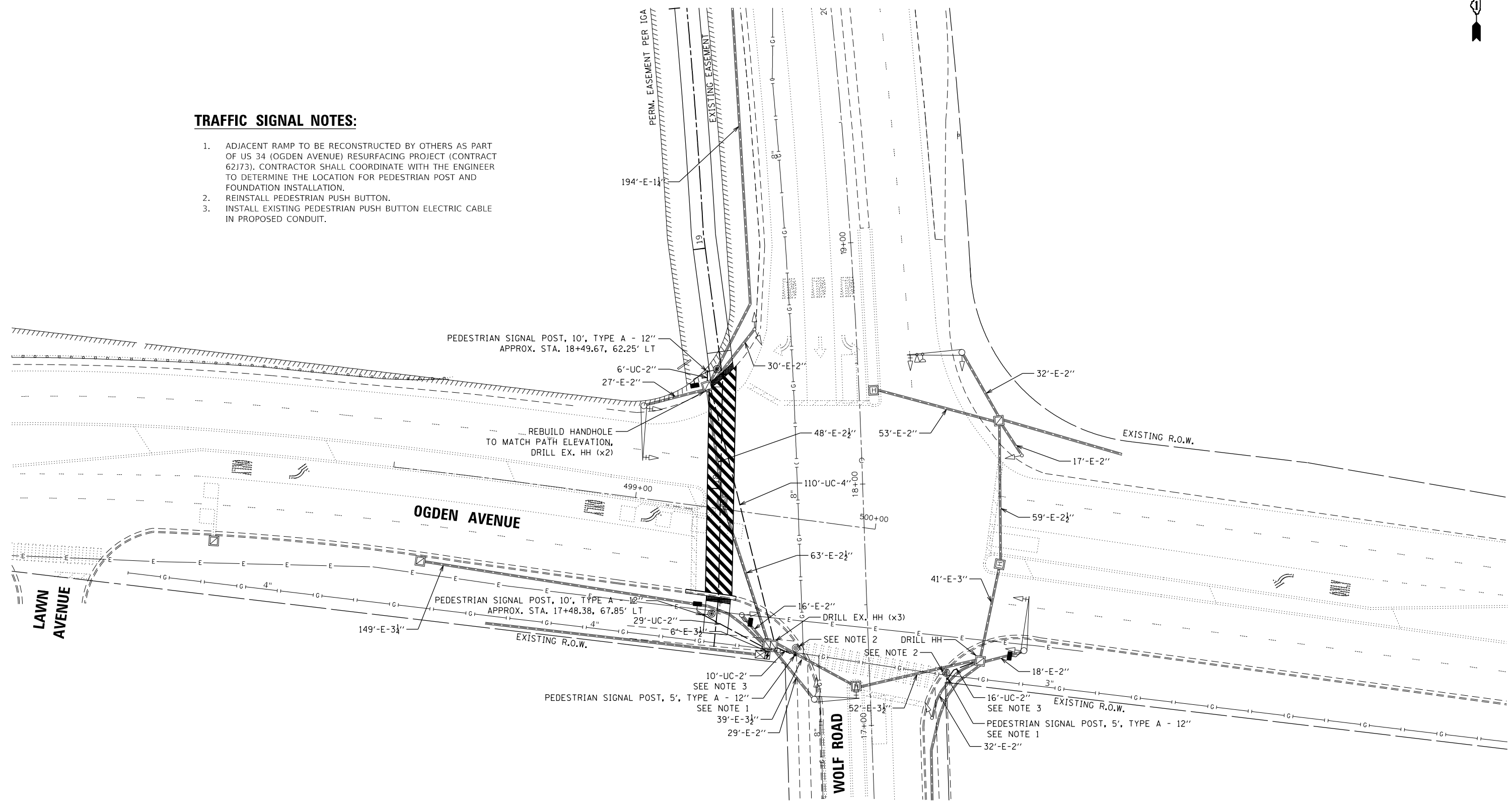
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2689	16-00095-00-BT	COOK	54	31
CONTRACT NO. 61H13				
ILLINOIS FED. AID PROJECT TE-01D1(066)				

**TS 1480**

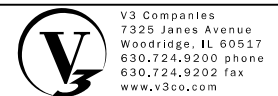


**TRAFFIC SIGNAL NOTES:**

1. ADJACENT RAMP TO BE RECONSTRUCTED BY OTHERS AS PART OF US 34 (OGDEN AVENUE) RESURFACING PROJECT (CONTRACT 62J73). CONTRACTOR SHALL COORDINATE WITH THE ENGINEER TO DETERMINE THE LOCATION FOR PEDESTRIAN POST AND FOUNDATION INSTALLATION.
2. REINSTALL PEDESTRIAN PUSH BUTTON.
3. INSTALL EXISTING PEDESTRIAN PUSH BUTTON ELECTRIC CABLE IN PROPOSED CONDUIT.



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 630.724.9202 fax  
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USER NAME = cfigus  
 DESIGNED - CAS  
 DRAWN - DRP  
 CHECKED - MJR  
 DATE - 3/31/2021

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

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

**TRAFFIC SIGNAL PLAN**  
**US ROUTE 34 (OGDEN AVENUE) AND WOLF ROAD**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2689	16-00095-00-BT	COOK	54	32
CONTRACT NO. 61H13				
ILLINOIS FED. AID PROJECT TE-01D1(066)				

**TS 1480**





# TRAFFIC SIGNAL LEGEND

(NOT TO SCALE)

ITEM	EXISTING	PROPOSED	ITEM	EXISTING	PROPOSED	ITEM	EXISTING	PROPOSED
CONTROLLER CABINET			HANDHOLE -SQUARE -ROUND			SIGNAL HEAD -(P) PROGRAMMABLE SIGNAL HEAD		
COMMUNICATION CABINET			HEAVY DUTY HANDHOLE -SQUARE -ROUND			SIGNAL HEAD WITH BACKPLATE -(P) PROGRAMMABLE SIGNAL HEAD -(RB) RETROREFLECTIVE BACKPLATE		
MASTER CONTROLLER			DOUBLE HANDHOLE			PEDESTRIAN SIGNAL HEAD AT RAILROAD INTERSECTIONS		
MASTER MASTER CONTROLLER			JUNCTION BOX			PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN TIMER		
UNINTERRUPTABLE POWER SUPPLY			RAILROAD CANTILEVER MAST ARM			ILLUMINATED SIGN "NO LEFT TURN"/"NO RIGHT TURN"		
SERVICE INSTALLATION -(P) POLE MOUNTED			RAILROAD FLASHING SIGNAL			NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE. ALL DETECTOR LOOP CABLE TO BE SHIELDED		
SERVICE INSTALLATION -(G) GROUND MOUNTED -(GM) GROUND MOUNTED METERED			RAILROAD CROSSING GATE			GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN)		
TELEPHONE CONNECTION			RAILROAD CROSSBUCK			ELECTRIC CABLE IN CONDUIT, TRACER NO. 14 1/C		
STEEL MAST ARM ASSEMBLY AND POLE			RAILROAD CONTROLLER CABINET			COAXIAL CABLE		
ALUMINUM MAST ARM ASSEMBLY AND POLE			UNDERGROUND CONDUIT (UC), GALVANIZED STEEL			VENDOR CABLE		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE			TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE			COPPER INTERCONNECT CABLE, NO. 18, 3 PAIR TWISTED, SHIELDED		
SIGNAL POST -(BM) BARREL MOUNTED - TEMPORARY			SYSTEM ITEM			FIBER OPTIC CABLE -NO. 62.5/125, MM12F -NO. 62.5/125, MM12F SM12F -NO. 62.5/125, MM12F SM24F		
WOOD POLE			INTERSECTION ITEM			GROUND ROD -(C) CONTROLLER -(M) MAST ARM -(P) POST -(S) SERVICE		
GUY WIRE			REMOVE ITEM					
SIGNAL HEAD			RELOCATE ITEM					
SIGNAL HEAD WITH BACKPLATE			ABANDON ITEM					
SIGNAL HEAD OPTICALLY PROGRAMMED			CONTROLLER CABINET AND FOUNDATION TO BE REMOVED					
FLASHER INSTALLATION -(FS) SOLAR POWERED			MAST ARM POLE AND FOUNDATION TO BE REMOVED					
PEDESTRIAN SIGNAL HEAD			SIGNAL POST AND FOUNDATION TO BE REMOVED					
PEDESTRIAN PUSH BUTTON -(APS) ACCESSIBLE PEDESTRIAN PUSH BUTTON			DETECTOR LOOP, TYPE I					
RADAR DETECTION SENSOR			PREFORMED DETECTOR LOOP					
VIDEO DETECTION CAMERA			SAMPLING (SYSTEM) DETECTOR					
RADAR/VIDEO DETECTION ZONE			INTERSECTION AND SAMPLING (SYSTEM) DETECTOR					
PAN, TILT, ZOOM (PTZ) CAMERA			QUEUE AND SAMPLING (SYSTEM) DETECTOR					
EMERGENCY VEHICLE LIGHT DETECTOR			WIRELESS DETECTOR SENSOR					
CONFIRMATION BEACON			WIRELESS ACCESS POINT					
WIRELESS INTERCONNECT								
WIRELESS INTERCONNECT RADIO REPEATER								

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PLOT DATE = 3/4/2019	DATE - 9/29/2016	REVISED -	

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE  
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

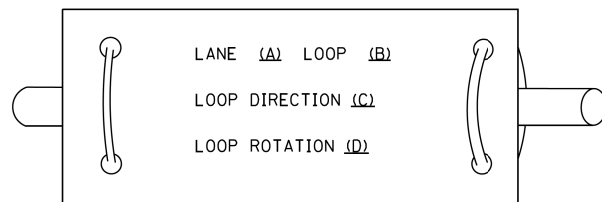
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2689	16-00095-00-BT	COOK	54	34
<b>TS-05</b>		CONTRACT NO. 61H13		
ILLINOIS   FED. AID PROJECT TE-01D1(066)				

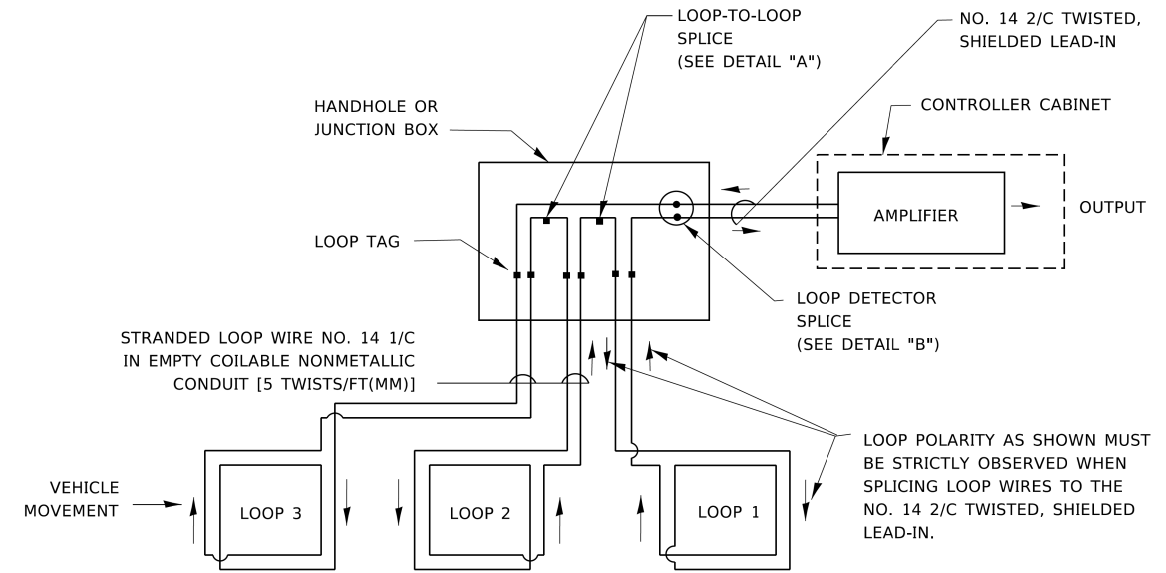
**LOOP DETECTOR NOTES**

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

**LOOP LEAD-IN CABLE TAG**

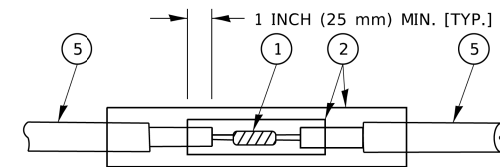


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

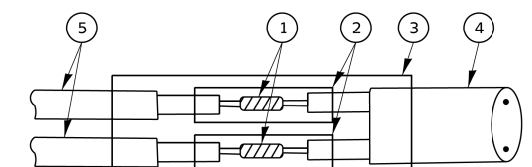


**DETECTOR LOOP WIRING SCHEMATIC**

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

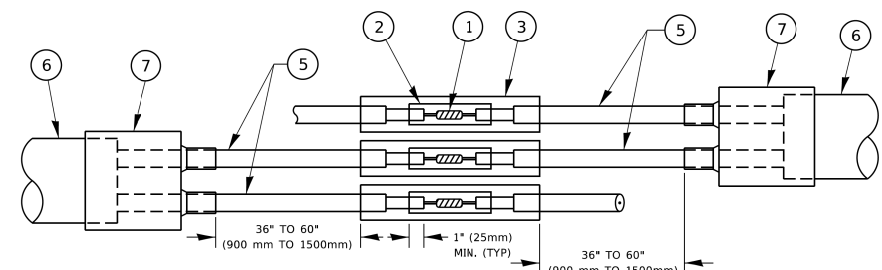


DETAIL "A"  
LOOP-TO-LOOP SPLICE

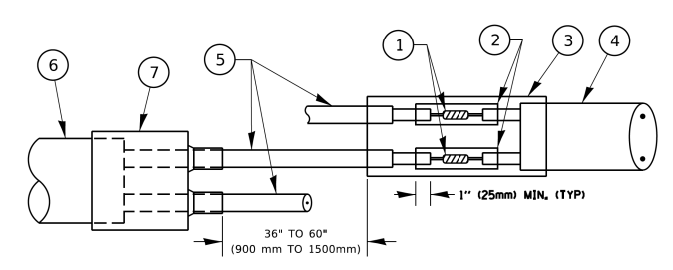


DETAIL "B"  
LOOP-TO-CONTROLLER SPLICE

**TYPE I LOOP**



DETAIL "A"  
LOOP-TO-LOOP SPLICE



DETAIL "B"  
LOOP-TO-CONTROLLER SPLICE

**PREFORMED LOOP**

**LOOP DETECTOR SPLICE**

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

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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

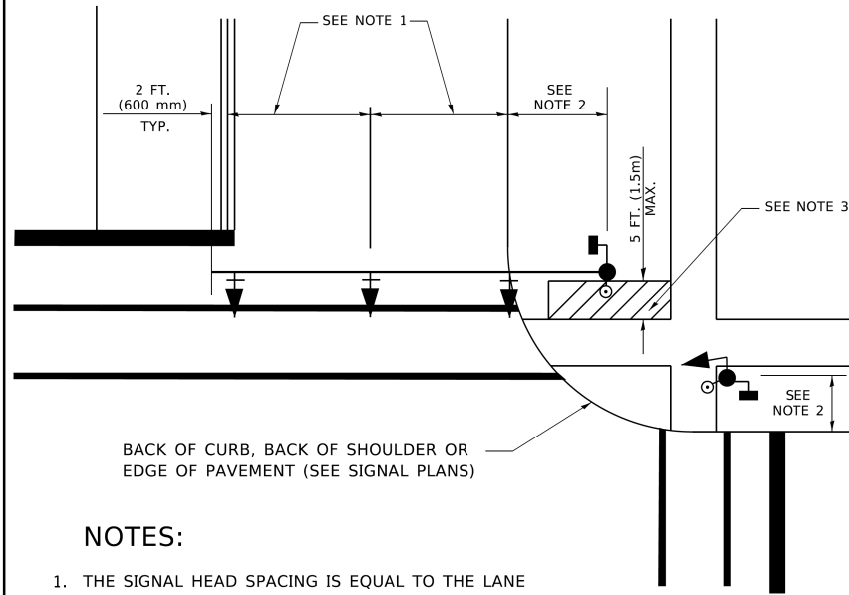
**DISTRICT ONE  
 STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

SCALE: NONE SHEET 2 OF 7 SHEETS STA. TO STA.

F.A. RTE. 2689	SECTION 16-00095-00-BT	COUNTY COOK	TOTAL SHEETS 54	SHEET NO. 35
<b>TS-05</b>		CONTRACT NO. 61H13		
ILLINOIS FED. AID PROJECT TE-01D1(066)				

**TRAFFIC SIGNAL MAST ARM AND SIGNAL POST**

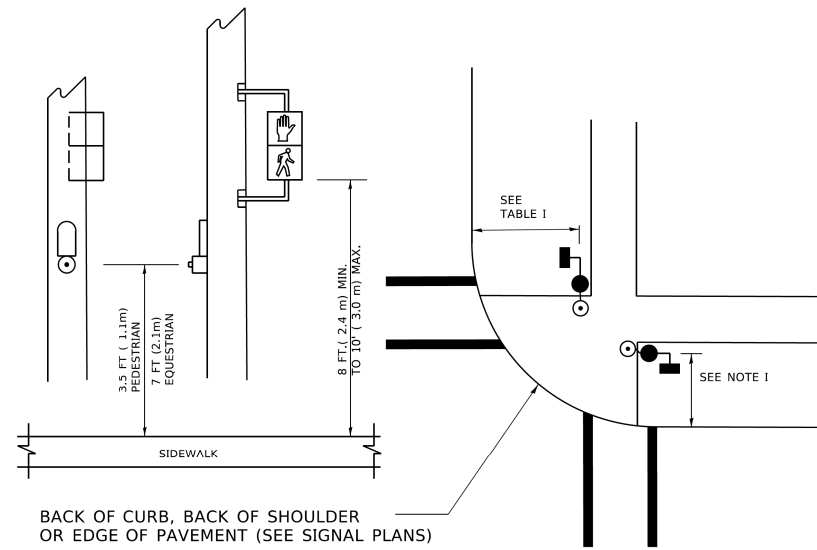
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



**NOTES:**

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

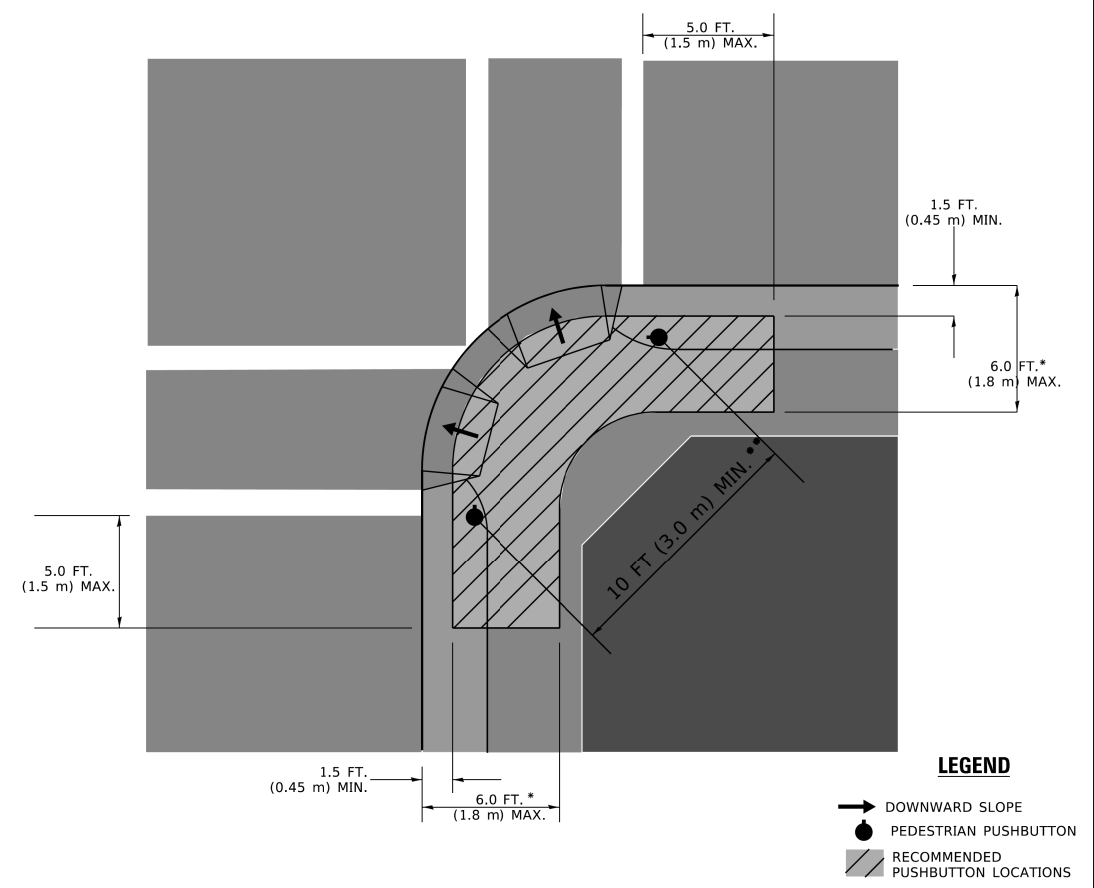
**PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST**



**NOTES:**

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

**RECOMMENDED PUSHBUTTON LOCATIONS**



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

**NOTES:**

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

**TRAFFIC SIGNAL EQUIPMENT OFFSET**

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

**NOTES:**

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

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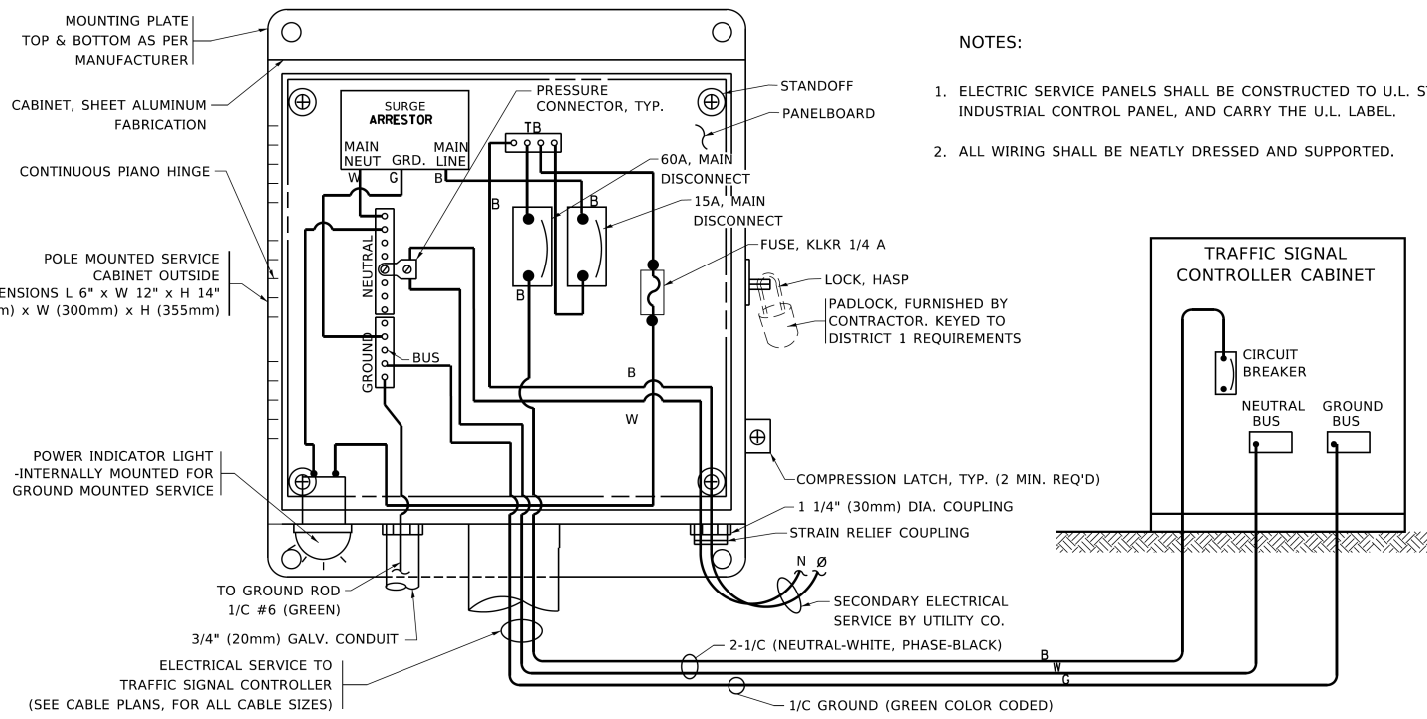
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

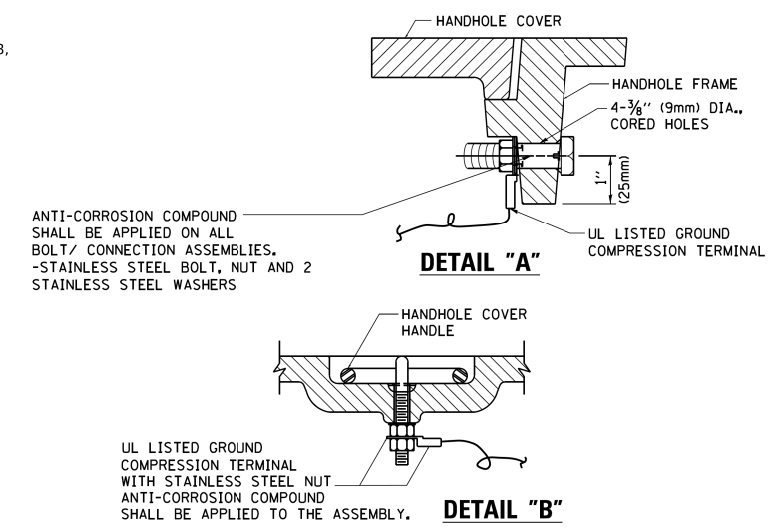
**DISTRICT ONE  
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

SCALE: NONE SHEET 3 OF 7 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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<b>TS-05</b>		CONTRACT NO. 61H13		
ILLINOIS FED. AID PROJECT		TE-01D1(066)		

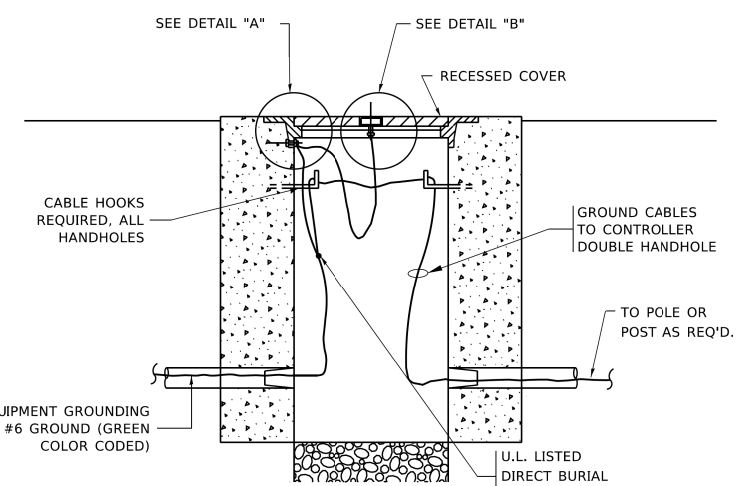


**ELECTRICAL SERVICE - PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)**  
**SERVICE INSTALLATION POLE MOUNT (SHOWN)**  
 (NOT TO SCALE)

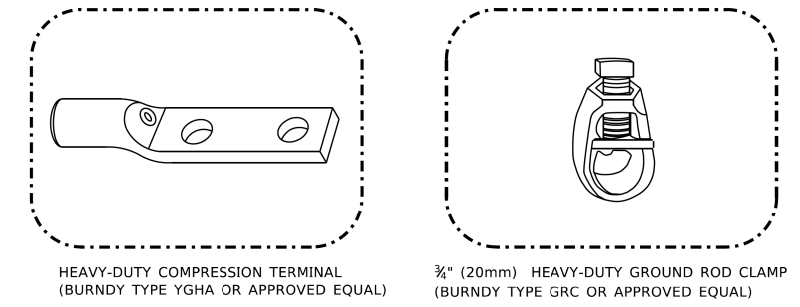


**NOTES:**  
**GROUNDING SYSTEM**

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

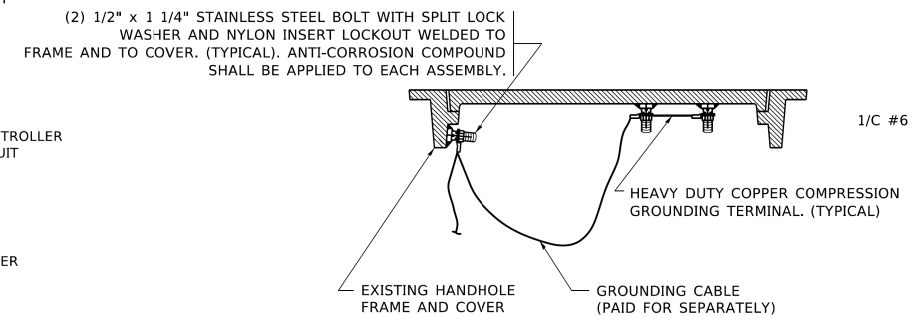


**HANDHOLE COVER & FRAME - GROUNDING DETAIL**  
 (NOT TO SCALE)

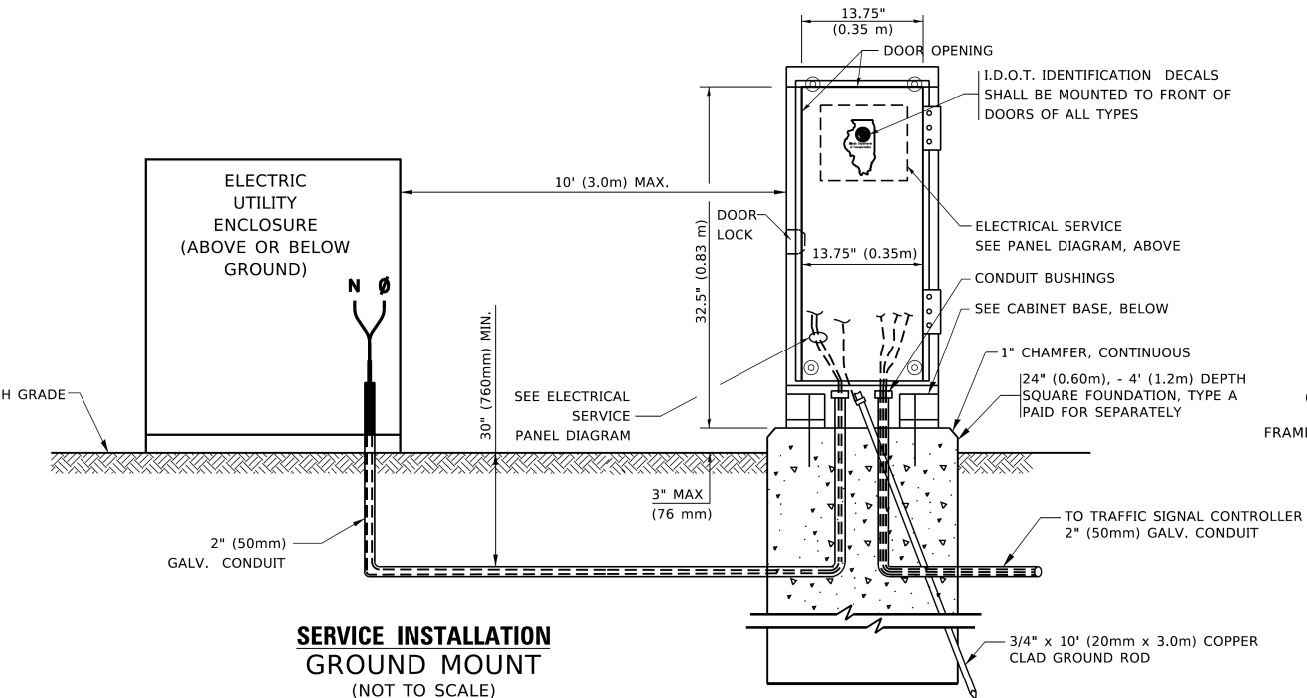


**NOTES:**

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

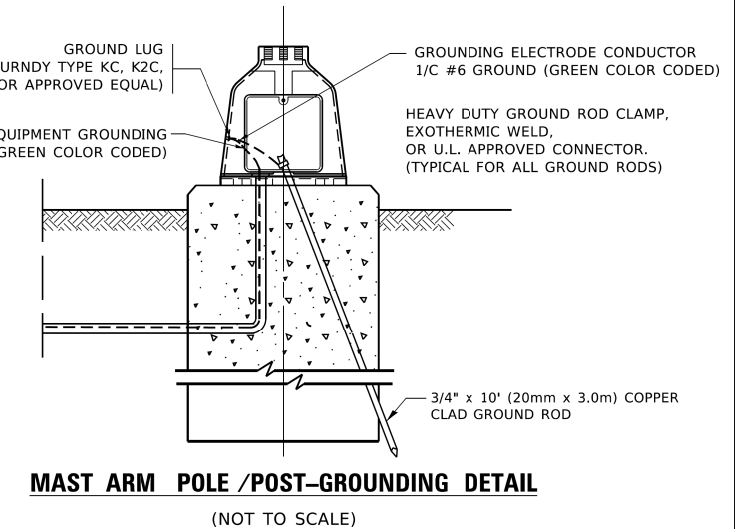
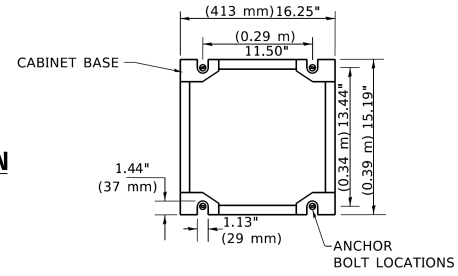


**EXISTING HANDHOLE COVER & FRAME - GROUNDING DETAIL**  
 (NOT TO SCALE)



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

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



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

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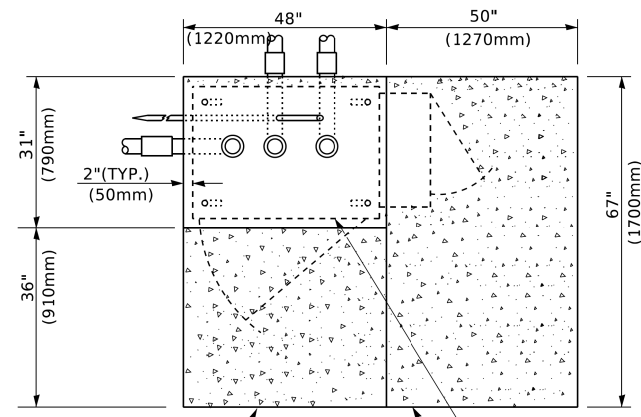
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

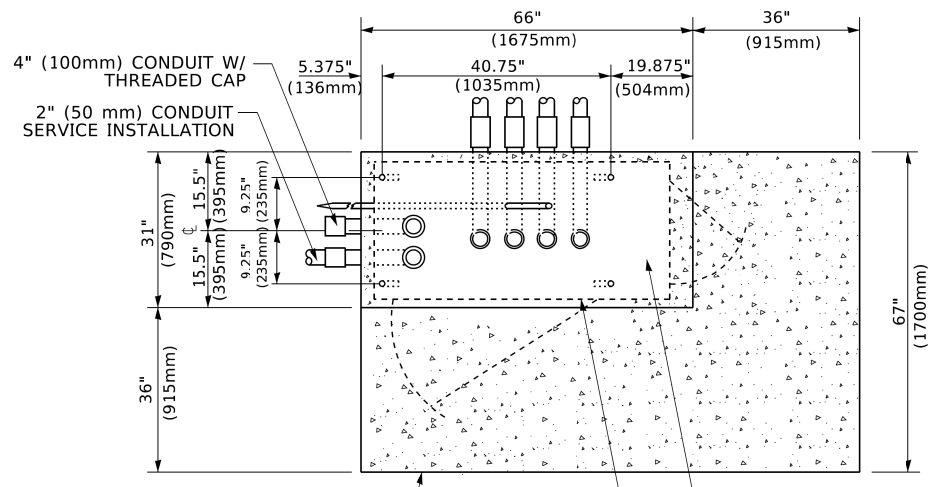
**DISTRICT ONE**  
**STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

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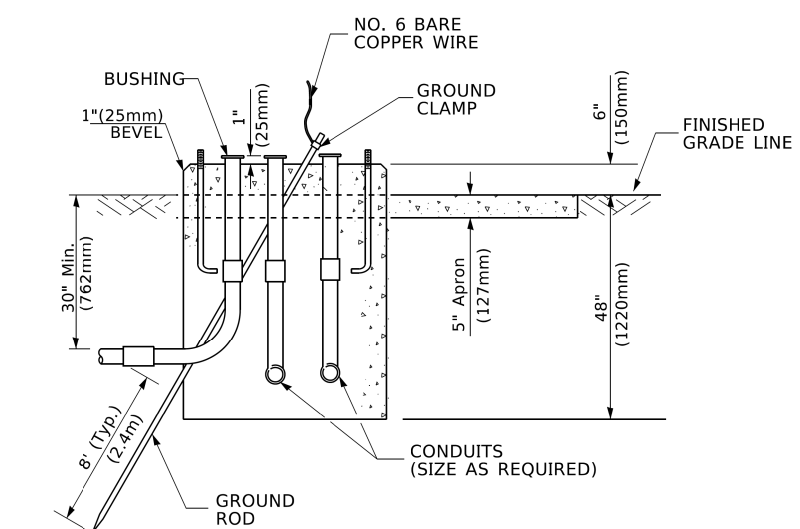
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TS-05		CONTRACT NO. 61H13		
ILLINOIS FED. AID PROJECT TE-01D1(066)				



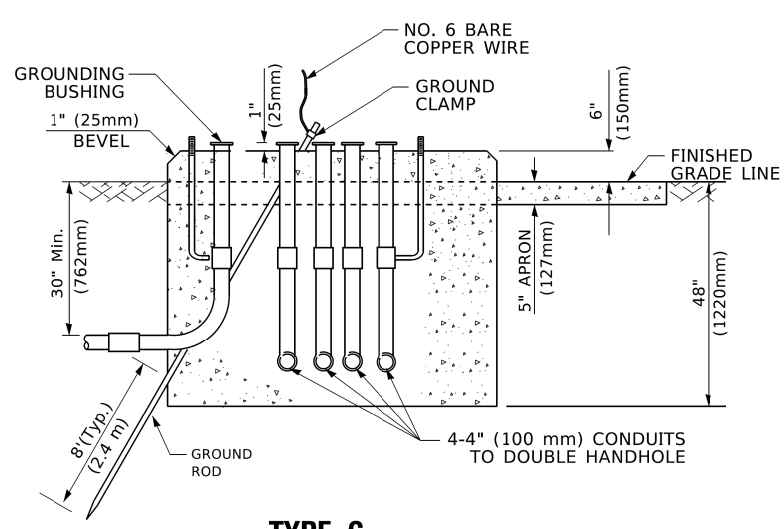
**TOP VIEW**



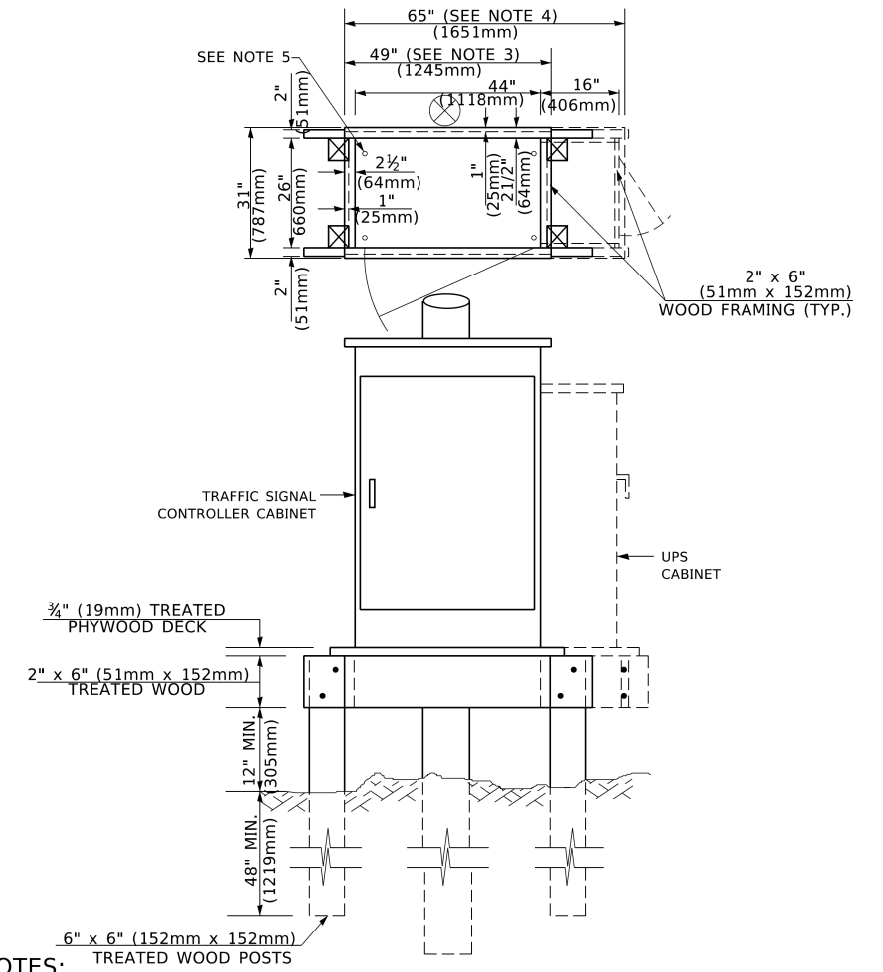
**TOP VIEW**



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



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



**NOTES:**

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

**TEMPORARY SIGNAL CONTROLLER  
WOOD SUPPORT PLATFORM**

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

**CABLE SLACK**

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

**VERTICAL CABLE LENGTH**

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

**DEPTH OF FOUNDATION**

Mast Arm Length	① Foundation Depth	Foundation Diameter	Spiral Diameter	Quantity of Rebars	Size of Rebars
Less than 30' (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 30' (9.1 m) and less than 40' (12.2 m)	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	11'-0" (3.4 m)	36" (900mm)	24" (600mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 55' (16.8 m) and up to 56' (16.8 m)	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 56' (16.8 m) and less than 65' (19.8 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
Greater than or equal to 65' (19.8 m) and up to 75' (22.9 m)	25'-0" (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)

**NOTES:**

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

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

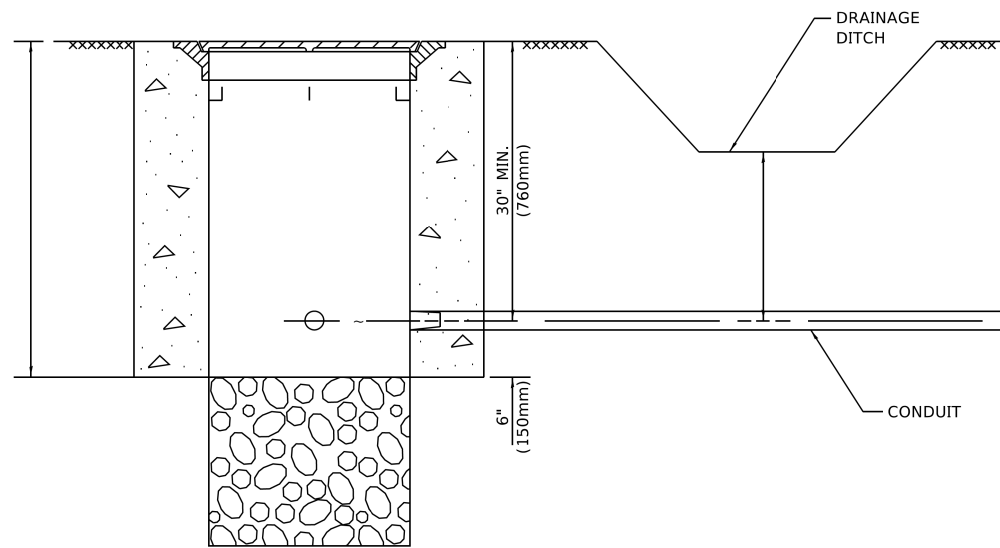
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	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>DISTRICT ONE</b>			
<b>STANDARD TRAFFIC SIGNAL DESIGN DETAILS</b>			
SCALE: NONE	SHEET 5	OF 7 SHEETS	STA. TO STA.

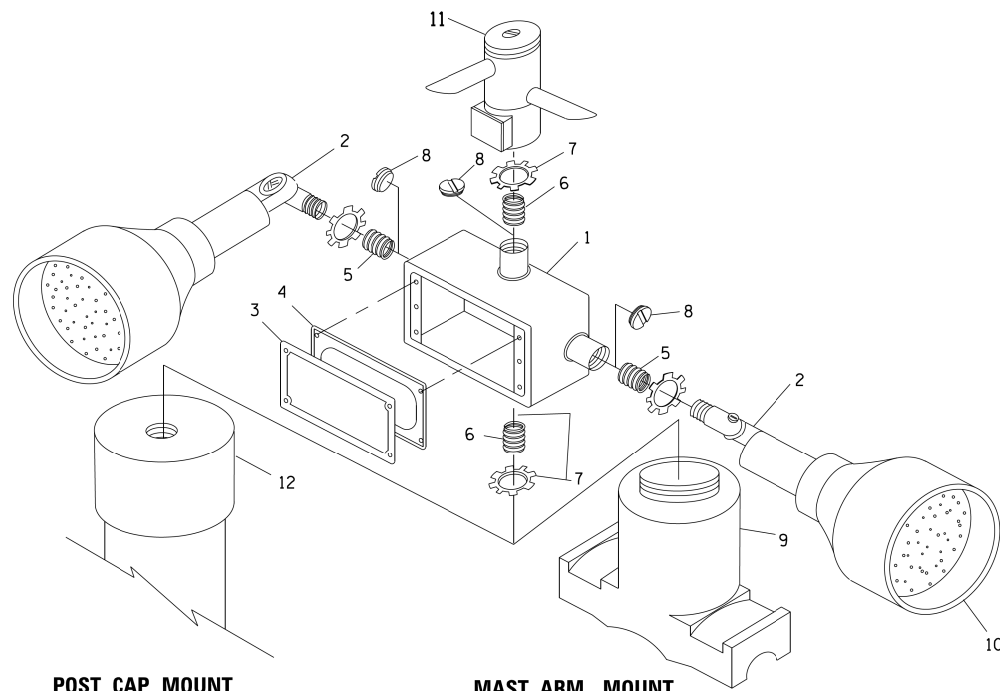
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2689	16-0095-00-BT	COOK	54	38
<b>TS-05</b>		CONTRACT NO. 61H13		
ILLINOIS		FED. AID PROJECT TE-01D1(066)		



**NOTES:**

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

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

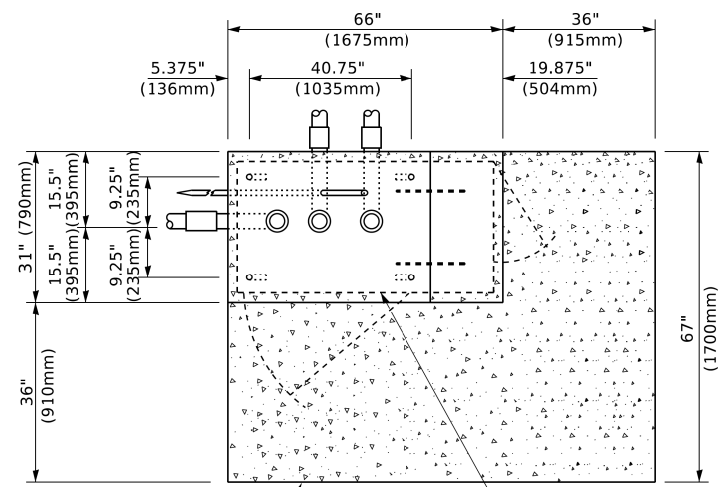


**POST CAP MOUNT**      **MAST ARM MOUNT**  
**EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION**  
**BEACON MOUNTING DETAIL**

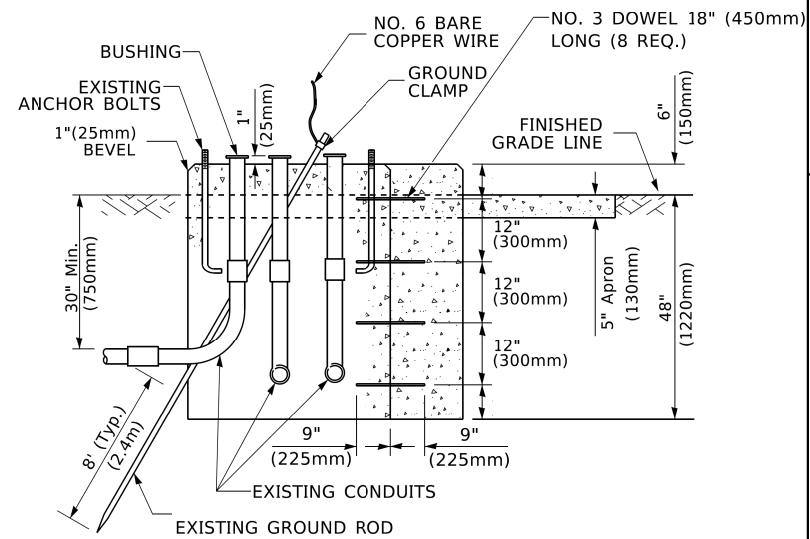
ITEM NO.	IDENTIFICATION
1	OUTLET BOX- GALV. 21 CU.IN. (0.000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	3/4" (19 mm) CLOSE NIPPLE
7	3/4" (19 mm) LOCKNUT
8	3/4" (19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	6 WATT PAR 38 LED FLOOD LAMP
11	DETECTOR UNIT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

**NOTES:**

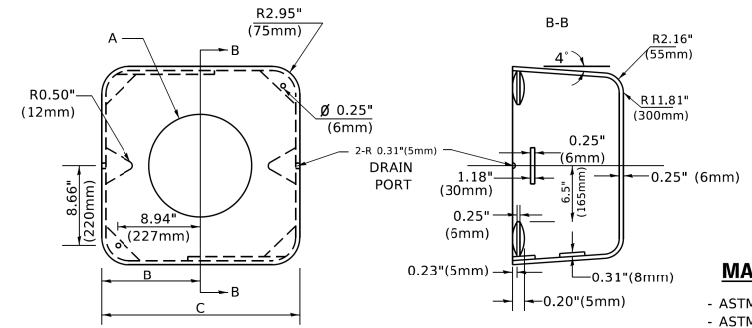
1. ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
2. ITEM #1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT  
ITEM #2- MULBERRY CON-O-SHADE LAMP SHIELD OR EQUIVALENT  
ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
3. WHEN POST MOUNTING IS SPECIFIED, ITEM #9 SHALL NOT BE REQUIRED.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



**TOP VIEW**  
(NOT TO SCALE)



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



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

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

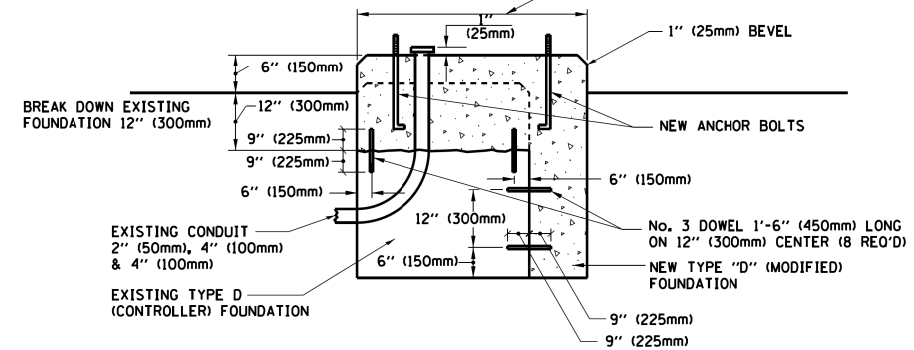
**SHROUD**

**NOTES:**

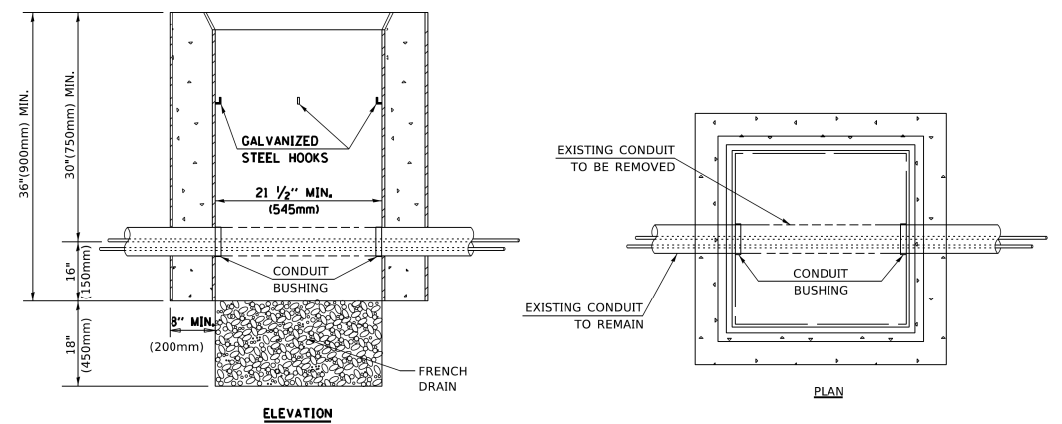
1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
2. THE SUPPLIER SHALL VERIFY THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.

**NOTE:**

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



**MODIFY EXISTING TYPE "D" FOUNDATION**



**NOTES:**

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

**HANDHOLE TO INTERCEPT EXISTING CONDUIT**

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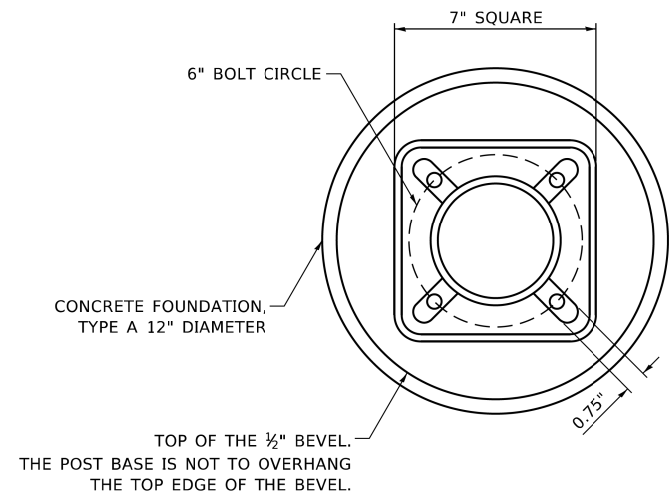
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	DATE -	REVISED -

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

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

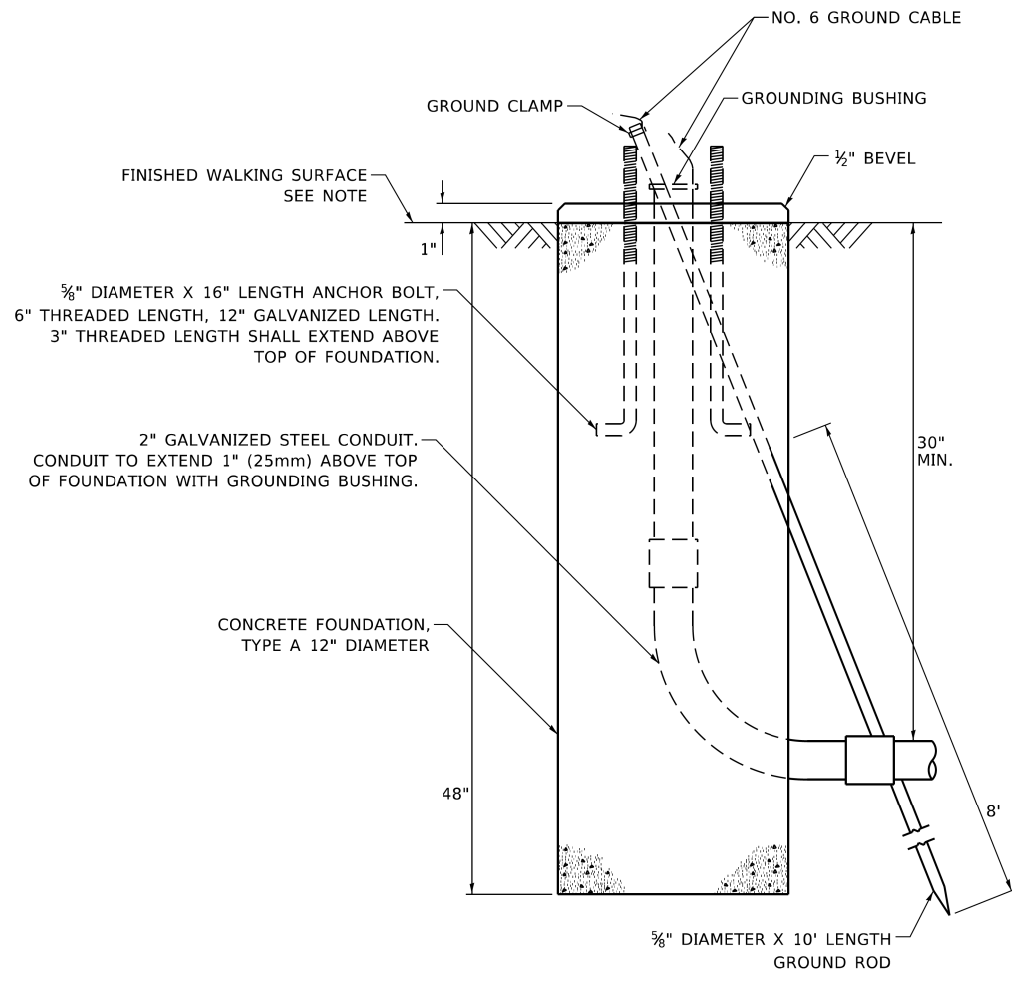
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F.A. RTE. 2689	SECTION 16-0095-00-BT	COUNTY COOK	TOTAL SHEETS 54	SHEET NO. 39
TS-05		CONTRACT NO. 61H13		
ILLINOIS   FED. AID PROJECT   TE-01D1(066)				

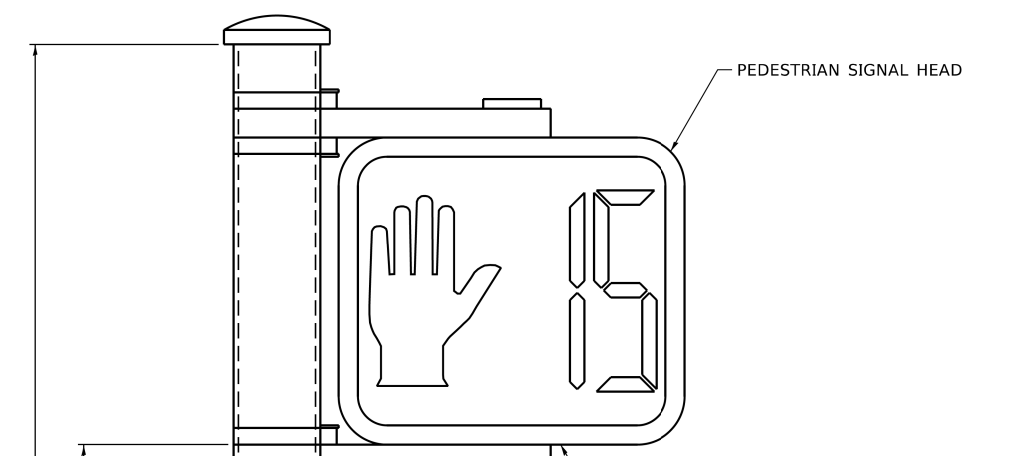


**BOLT PATTERN**

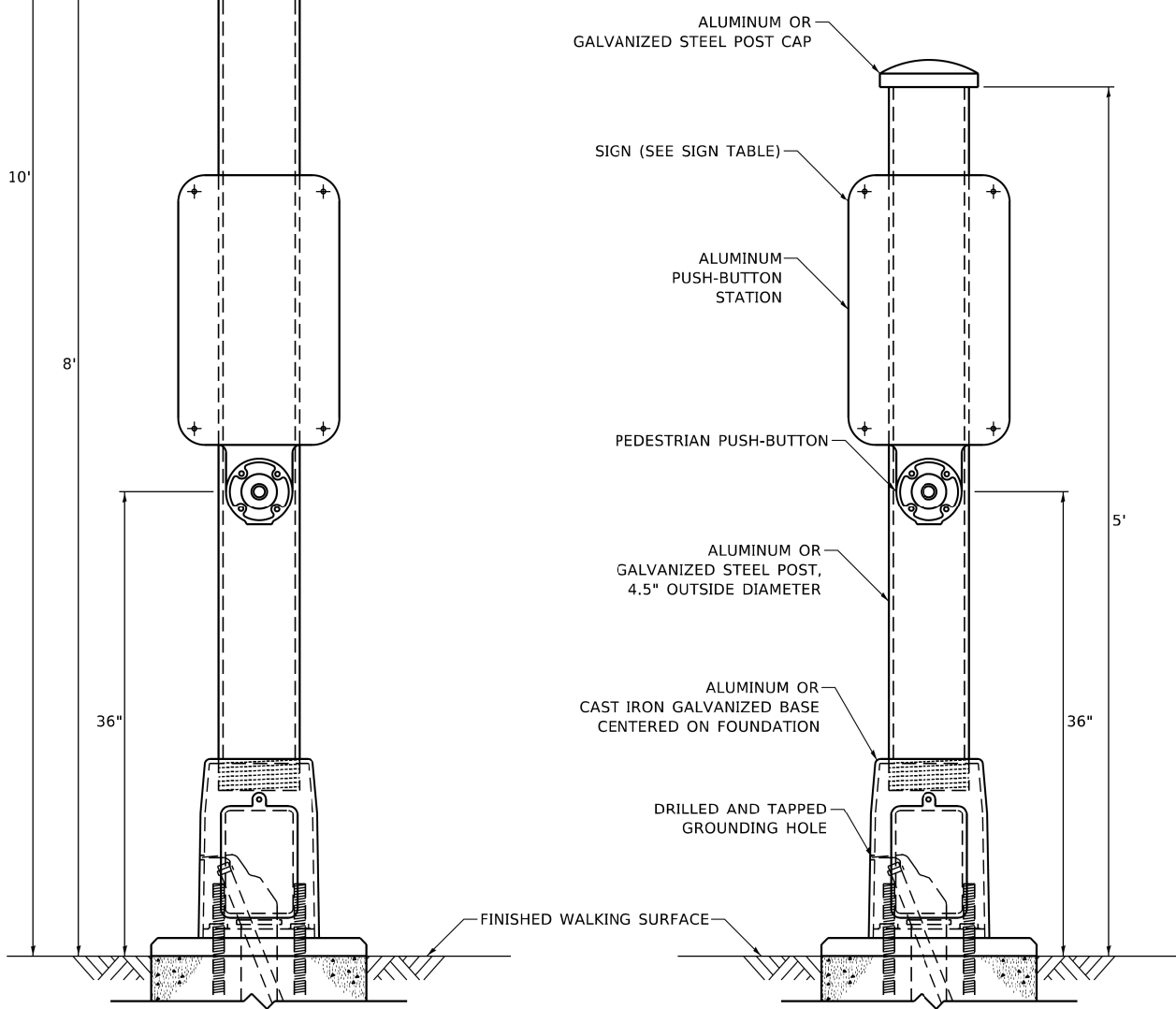
NOTE:  
 1. IF THE PEDESTRIAN SIGNAL POST FOUNDATION IS INSTALLED WITHIN OR BEHIND A BARRIER CURB, THE TOP OF THE FOUNDATION SHALL BE INSTALLED FLUSH WITH THE TOP OF THE BARRIER CURB.



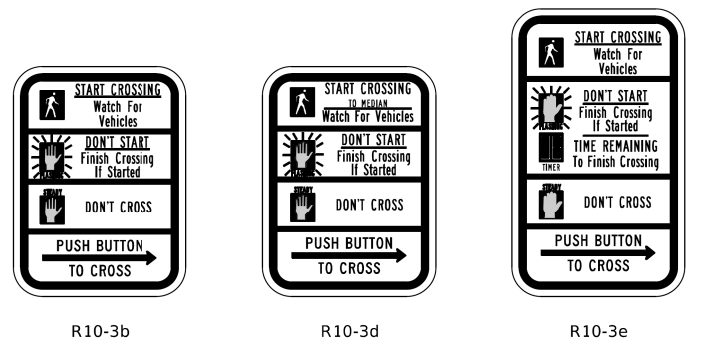
**CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER**



**PEDESTRIAN SIGNAL POST, 10 FT.**



**PEDESTRIAN SIGNAL POST, 5 FT.**



**SIGN TABLE**

SIGN	DIMENSIONS
R10-3b (RAILROAD ONLY)	9" X 12"
R10-3d (RAILROAD ONLY)	9" X 12"
R10-3e	9" X 15"

NOTES:  
 1. THE SIGN PANELS SHALL BE TYPE AP SHEETING.  
 2. THE ARROW ON SIGNS FOR PUSH-BUTTONS SERVING TWO DIRECTIONS ON THE SAME PHASE SHALL BE BI-DIRECTIONAL.  
 3. THE SIGN FOR DUAL-CALL PUSH-BUTTONS SHALL HAVE NO ARROW.

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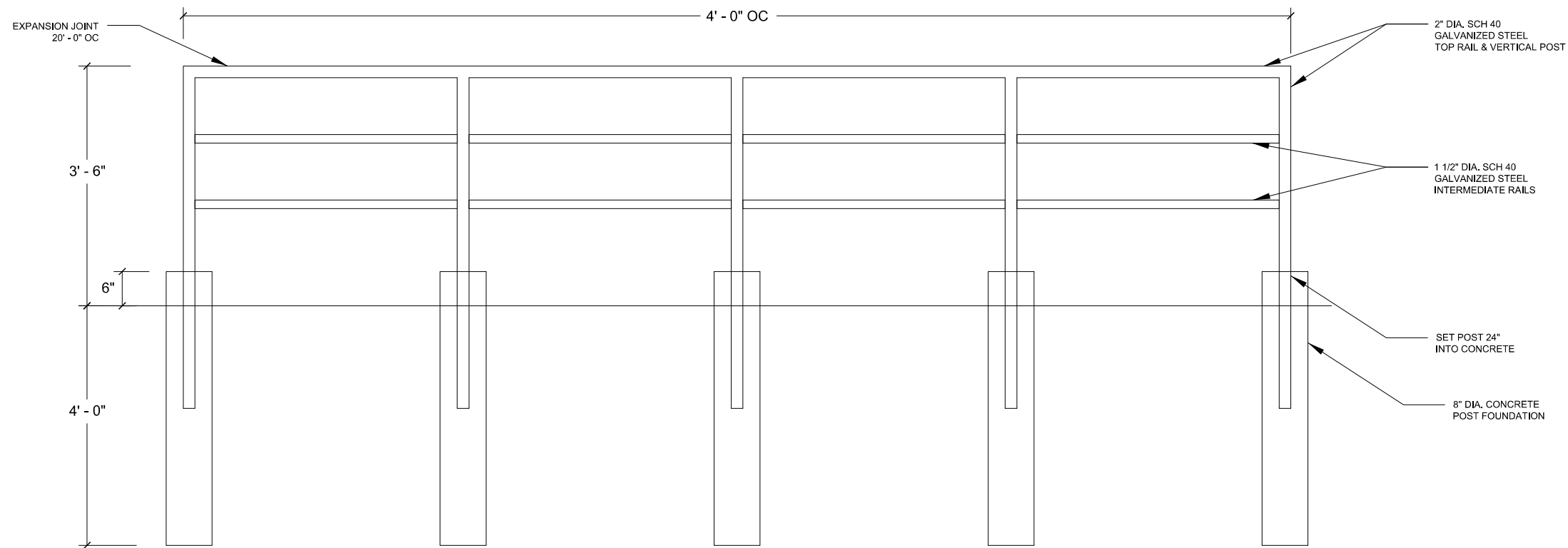
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>DISTRICT ONE    STANDARD TRAFFIC SIGNAL DESIGN DETAILS</b>	
SCALE: NTS	SHEET NO. 7 OF 7 SHEETS STA. TO STA.

F.A. RTE. 2689	SECTION 16-00095-00-BT	COUNTY COOK	TOTAL SHEETS 54	SHEET NO. 40
<b>TS-05</b>		CONTRACT NO. 61H13		
ILLINOIS FED. AID PROJECT TE-01D1(066)				

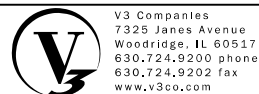




1 PEDESTRIAN RAILING (SPECIAL)  
NOT TO SCALE

NOTE: SET POST 24" INTO CONC. WITH 8" DIA. POST FOUNDATION

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

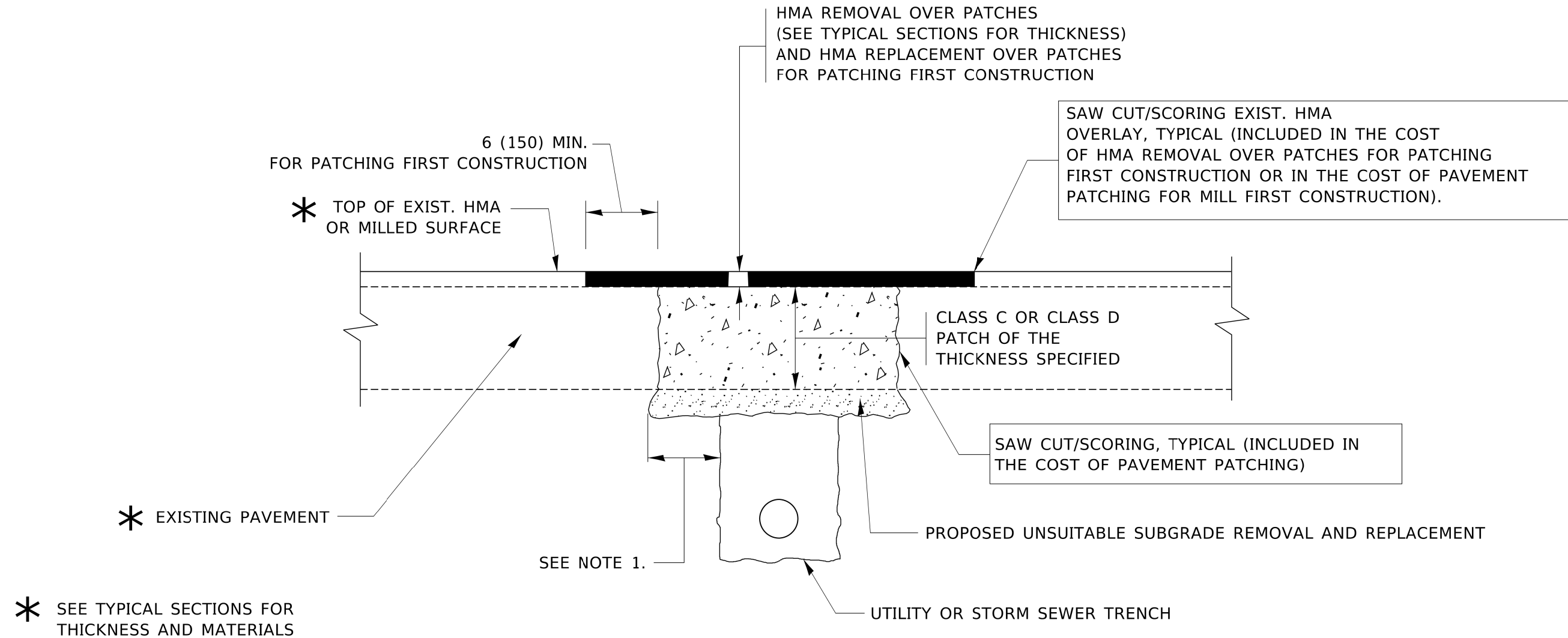
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2689	16-00095-00-BT	COOK	54	41
CONTRACT NO. 61H13				
ILLINOIS FED. AID PROJECT TE-01D1(066)				



**NOTES:**

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

**SEQUENCE OF CONSTRUCTION (PATCHING FIRST)**

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

**SEQUENCE OF CONSTRUCTION (MILLING FIRST)**

1. MILL HMA FIRST IF THERE IS AT LEAST 4½ INCHES OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING PAVEMENT OR IF THE PAVEMENT IS FULL DEPTH HMA. A MINIMUM OF 2 INCHES OF HMA MATERIAL SHALL BE IN PLACE AFTER MILLING.
2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.

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

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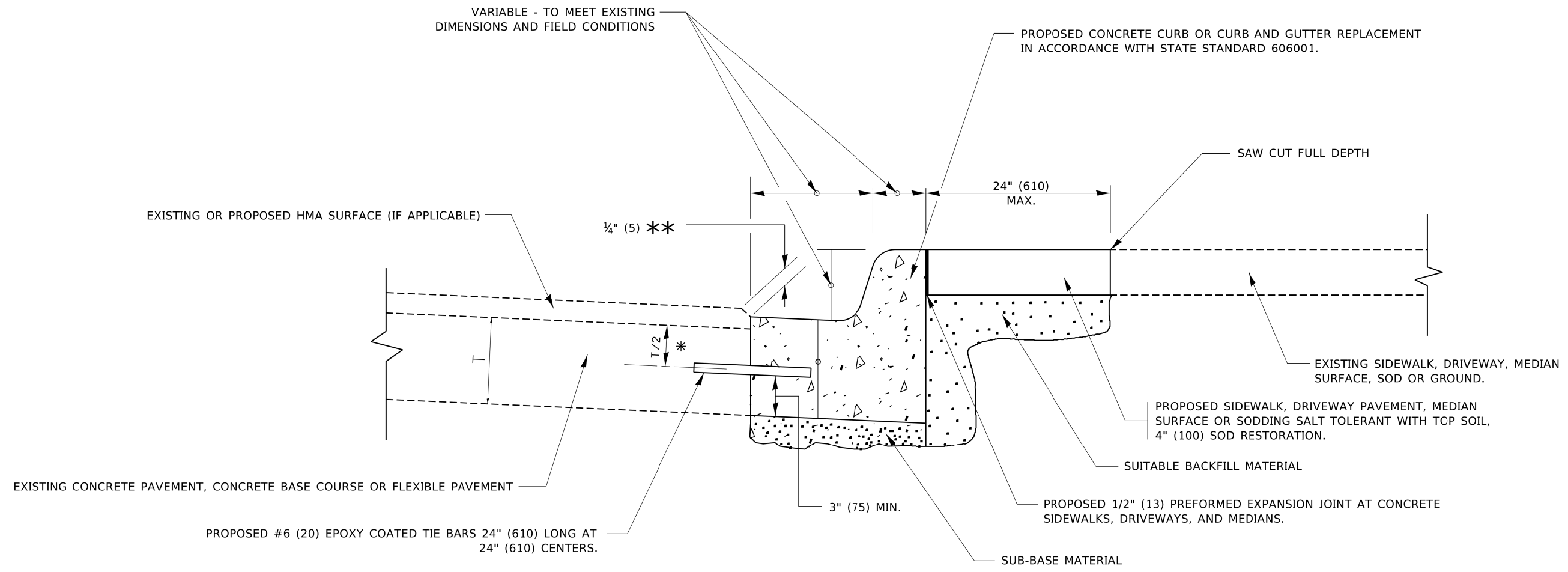
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PLOT DATE = 3/27/2019	DATE - 10-25-94	REVISED - K. ENG 10-27-08

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PAVEMENT PATCHING FOR  
HMA SURFACED PAVEMENT

SCALE: NONE SHEET 1 OF 5 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2689	16-00095-00-BT	COOK	54	42
BD400-04 (BD-22)		CONTRACT NO. 61H13		
ILLINOIS FED. AID PROJECT TE-01D1(066)				



- \* 3" (75) MINIMUM FROM TOP AND BOTTOM OF THE CONCRETE PAVEMENT OR BASE COURSE.
- \*\* IF THE FINAL SURFACE OF THE PAVEMENT IS CONCRETE, THE GUTTER IS TO BE FLUSH WITH THE PAVEMENT.

# CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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

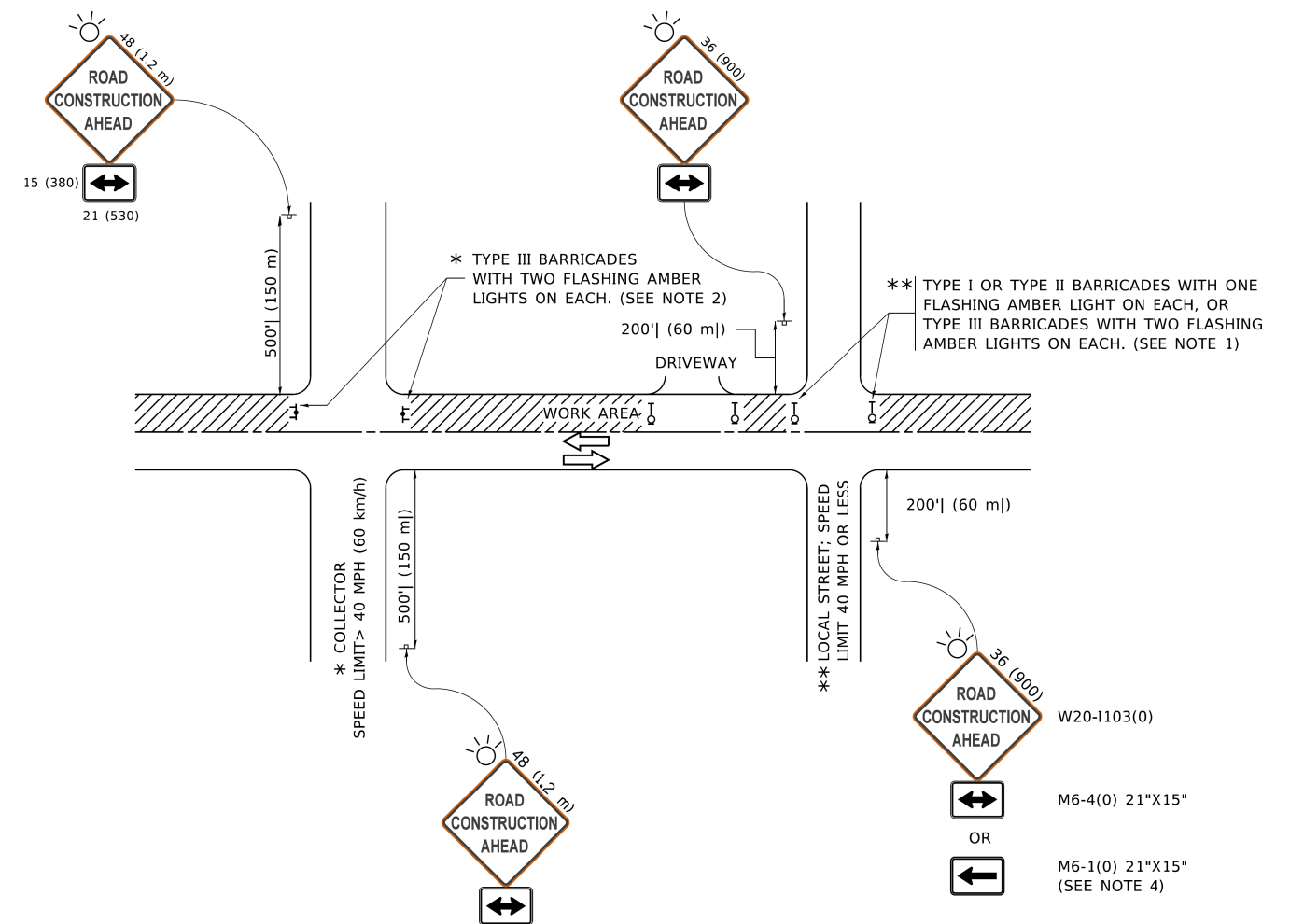
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PLOT DATE = 7/11/2019	DATE - 03-11-94	REVISED - K. SMITH 07-11-19

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT</b>	
SCALE: NONE	SHEET 2 OF 5 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2689	16-00095-00-BT	COOK	54	43
<b>BD600-06 (BD-24)</b>		CONTRACT NO. 61H13		
ILLINOIS FED. AID PROJECT TE-01D(1066)				



**NOTES:**

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

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

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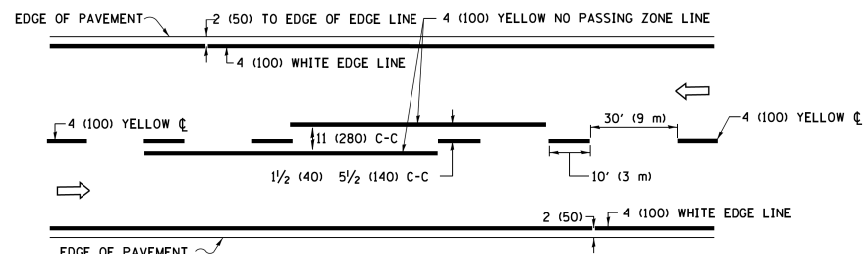
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

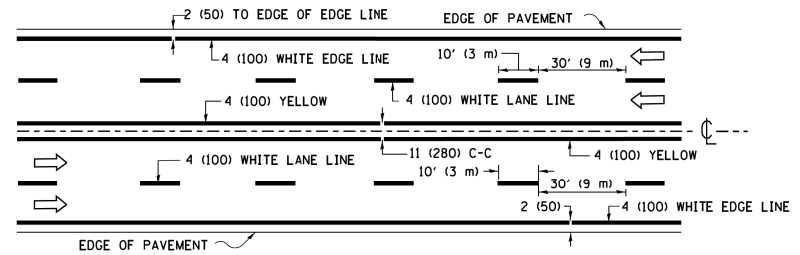
**TRAFFIC CONTROL AND PROTECTION FOR  
 SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS**

SCALE: NONE SHEET 3 OF 5 SHEETS STA. TO STA.

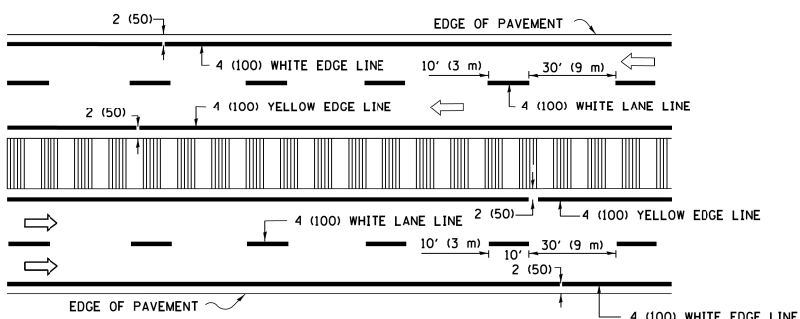
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2689	16-00095-00-BT	COOK	54	44
<b>TC-10</b>			CONTRACT NO. 61H13	
ILLINOIS FED. AID PROJECT TE-01D1066				



**2-LANE ROADWAY**

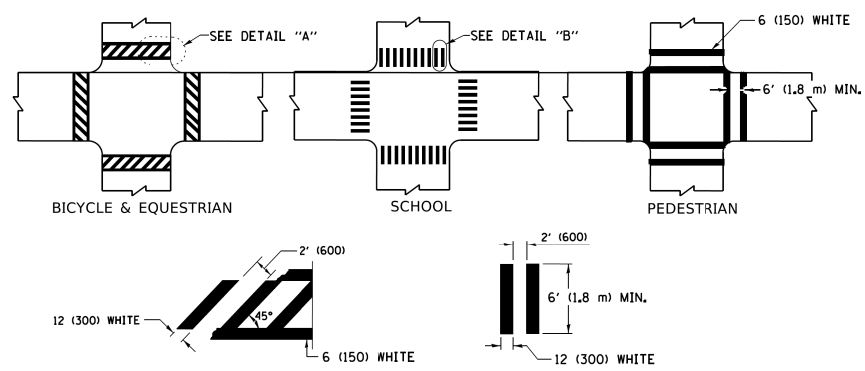


**MULTI-LANE UNDIVIDED**



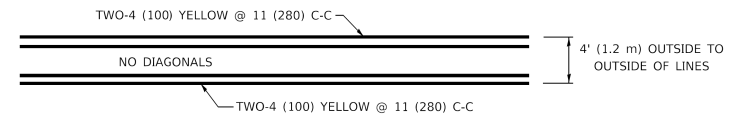
**MULTI-LANE DIVIDED WITH MEDIAN**

**TYPICAL LANE AND EDGE LINE MARKING**

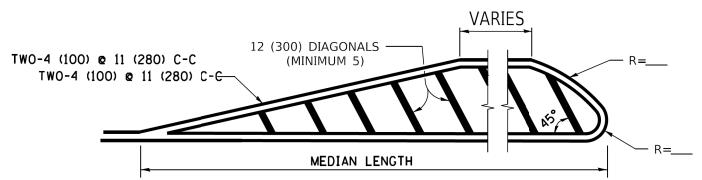


**TYPICAL CROSSWALK MARKING**

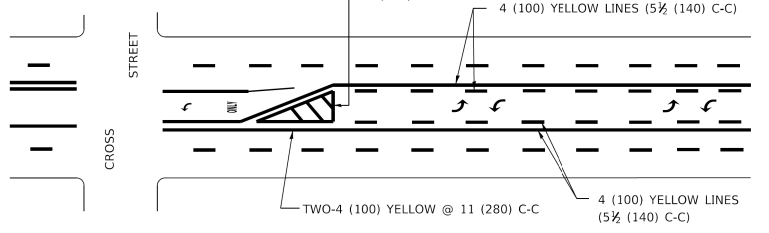
\* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES



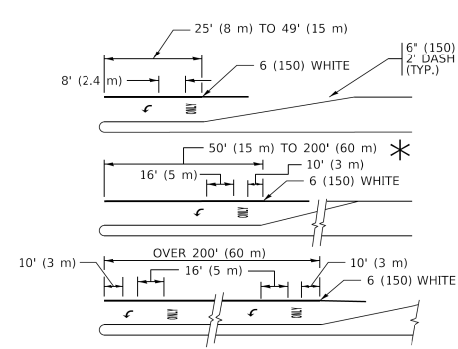
**4' (1.2 m) WIDE MEDIANS ONLY**



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



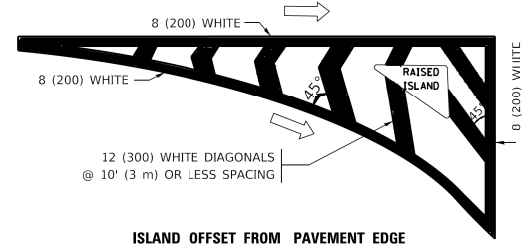
**MEDIAN WITH TWO-WAY LEFT TURN LANE TYPICAL PAINTED MEDIAN MARKING**



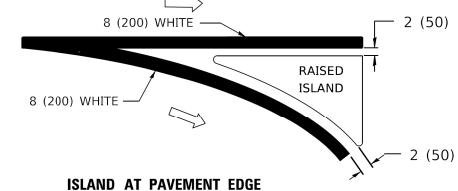
**TYPICAL LEFT (OR RIGHT) TURN LANE**

**TYPICAL TURN LANE MARKING**

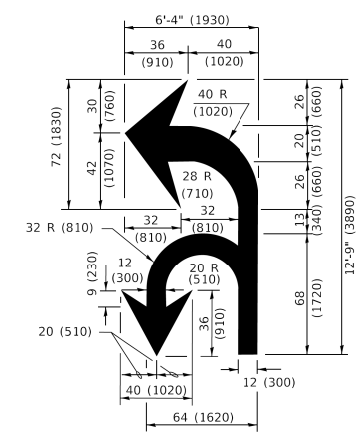
FULL SIZE LETTERS 8" (2.4 m) AND ARROWS SHALL BE USED.  
 AREA = 15.6 SQ. FT. (1.5 m<sup>2</sup>) ONLY AREA = 20.8 SQ. FT. (1.9 m<sup>2</sup>)  
 \* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".



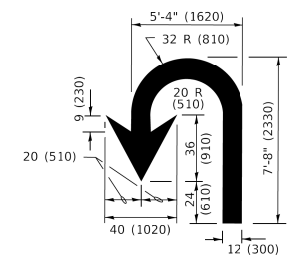
**ISLAND OFFSET FROM PAVEMENT EDGE**



**ISLAND AT PAVEMENT EDGE TYPICAL ISLAND MARKING**



**COMBINATION LEFT AND U-TURN**



**U-TURN**

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

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

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5 1/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
TURN LANE MARKINGS	6 (150) LINE: FULL SIZE LETTERS & SYMBOLS (8" (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5 1/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE.
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES: "RR" IS 6' (1.8 m) LETTERS: 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m <sup>2</sup> ) EACH "X"=54.0 SQ. FT. (5.0 m <sup>2</sup> )
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS > 8')	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

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

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

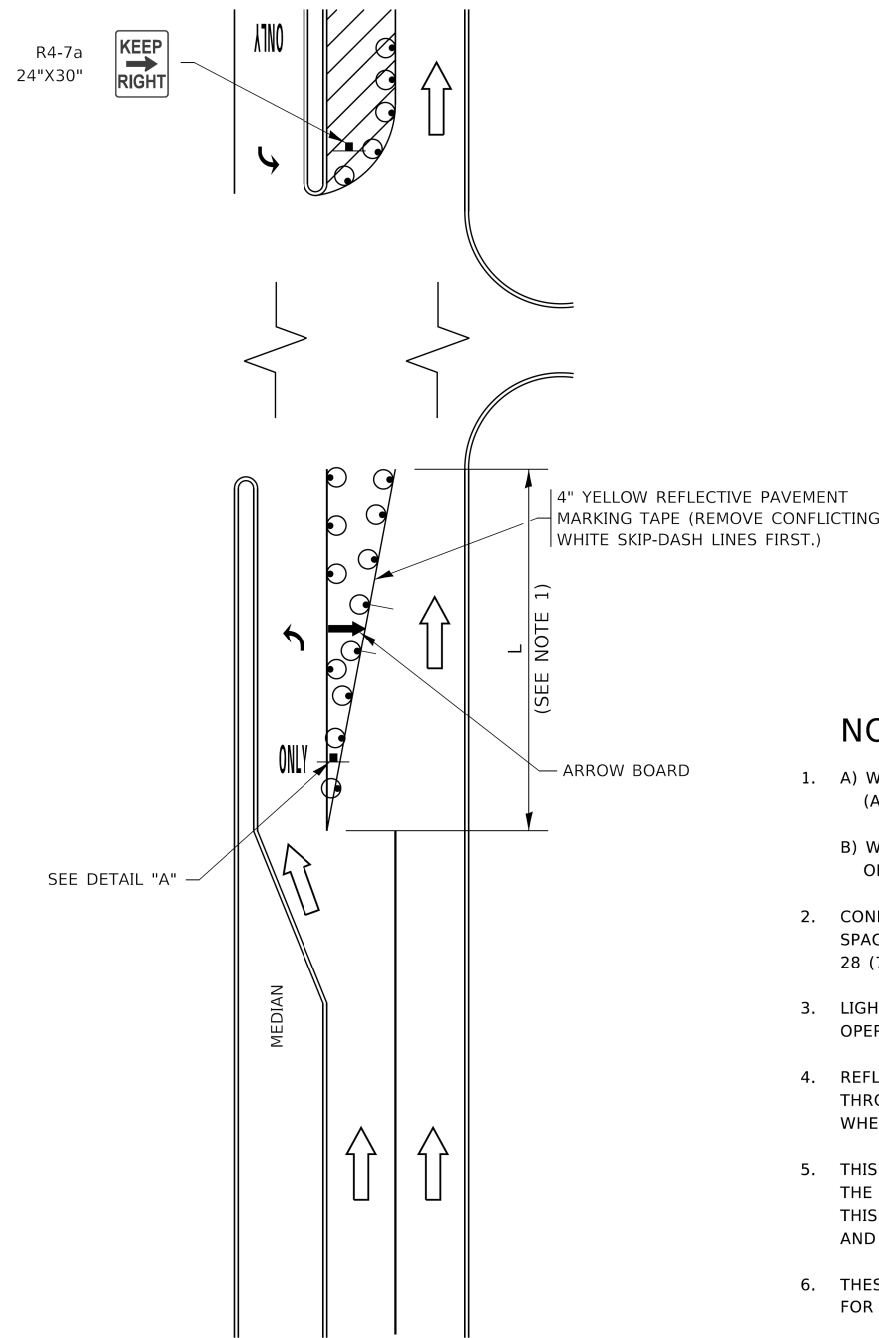
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PLOT SCALE = 50.0000" / 1'	CHECKED -	REVISED - C. JUCIUS 07-01-13
PLOT DATE = 3/4/2019	DATE - 03-19-90	REVISED - C. JUCIUS 12-21-15
		REVISED - C. JUCIUS 04-12-16

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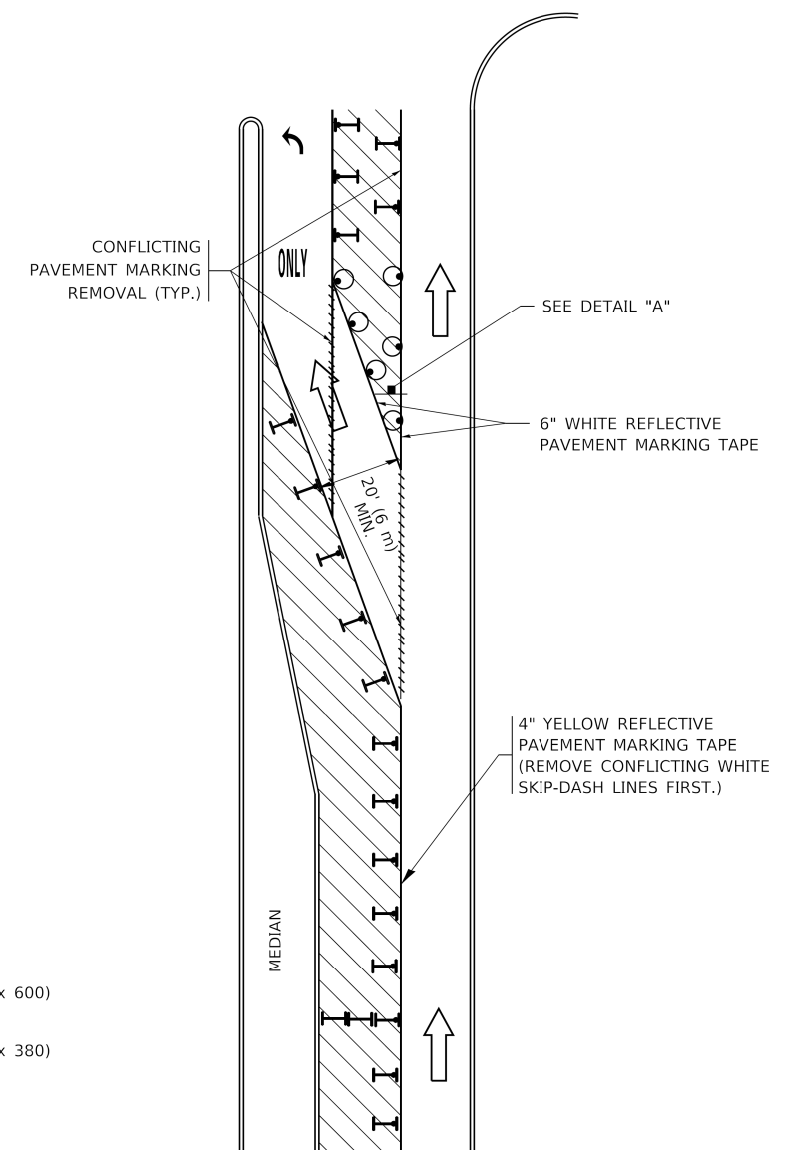
<b>DISTRICT ONE</b>		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
<b>TYPICAL PAVEMENT MARKINGS</b>		2689	16-0095-00-BT	COOK	54	45
SCALE: NONE		<b>TC-13</b>		CONTRACT NO. 61H13		
SHEET 4 OF 5 SHEETS		ILLINOIS		FED. AID PROJECT TE-01D(1066)		

## TURN BAY ENTRANCE AT START OF LANE CLOSURE TAPER



**FIGURE 1**

## TURN BAY ENTRANCE WITHIN A LANE CLOSURE



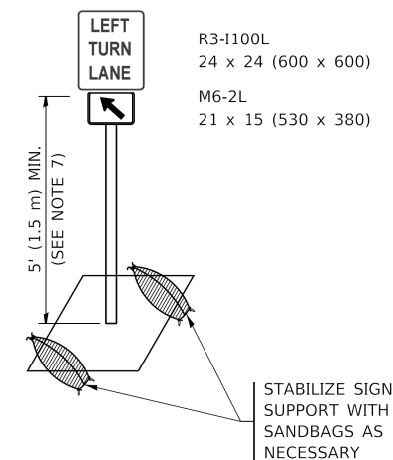
**FIGURE 2**

### LEGEND

	WORK AREA
	LANE OPEN TO TRAFFIC
	ARROW BOARD
	TYPE I OR II BARRICADE OR DRUM WITH STEADY BURN LIGHT
	DRUM WITH STEADY BURN LIGHT
	SIGN ASSEMBLY
	TYPE I OR II CHECK BARRICADE WITH FLASHING LIGHT

### NOTES:

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



**DETAIL A**

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

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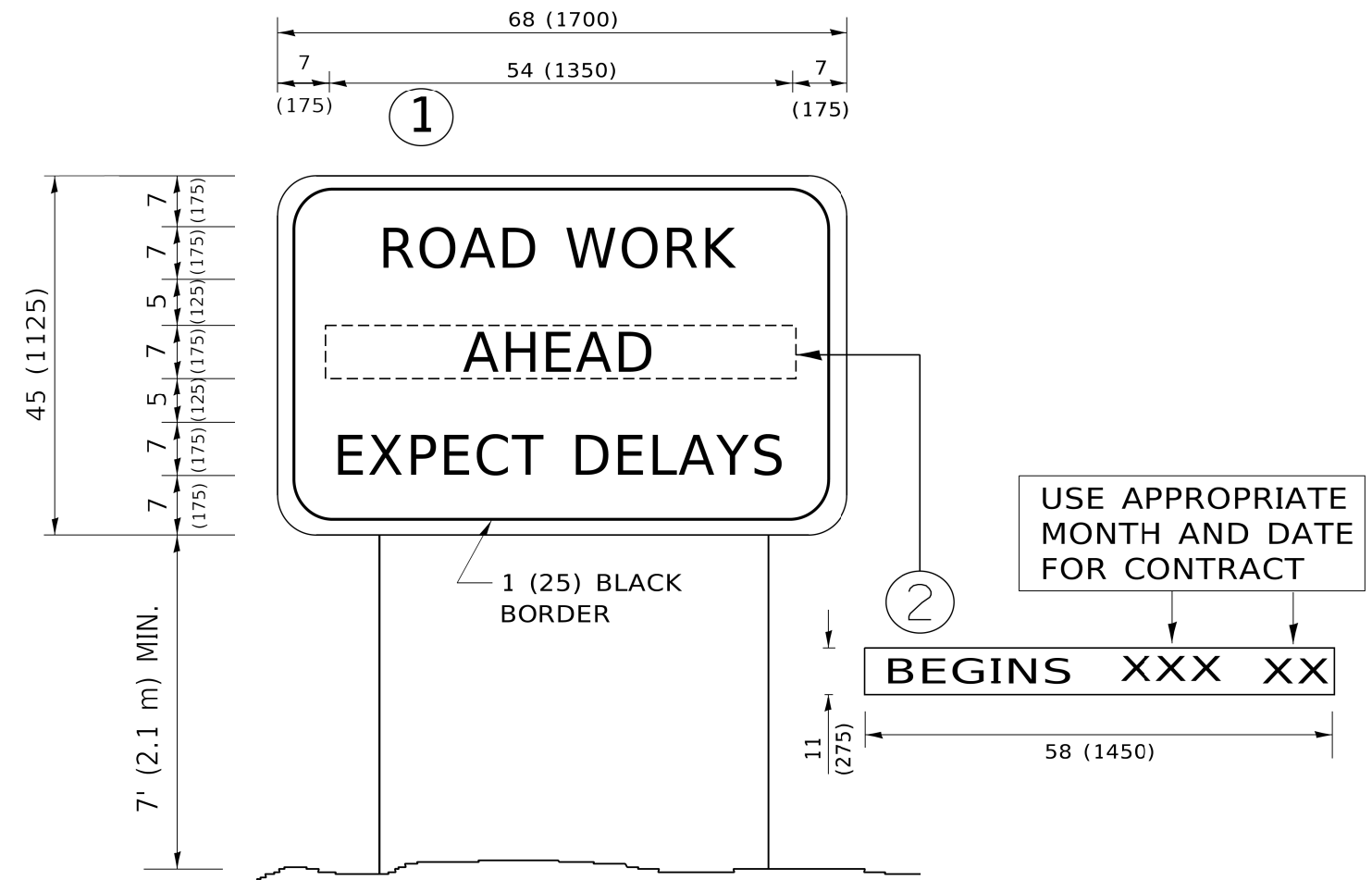
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	DRAWN - A. HOUSEH 11-07-95	REVISED - A. SCHUETZE 07-01-13
PLOT SCALE = 50.0000' / in.	CHECKED - A. HOUSEH 10-12-96	REVISED - A. SCHUETZE 09-15-16
PLOT DATE = 3/4/2019	DATE - T. RAMMACHER 01-06-00	REVISED -

### STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

### TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)

SCALE: NONE SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2689	16-00095-00-BT	COOK	54	45A
TC-14		CONTRACT NO. 61H13		
ILLINOIS FED. AID PROJECT TE-01D(1066)				



**NOTES:**

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

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

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	DRAWN -	REVISED - R. MIRS 12-11-97
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PLOT DATE = 3/4/2019	DATE -	REVISED - C. JUCIUS 01-31-07

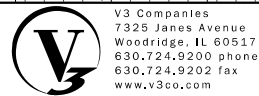
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DEPARTMENT OF TRANSPORTATION**

**ARTERIAL ROAD  
INFORMATION SIGN**

SCALE: NONE SHEET 5 OF 5 SHEETS STA. TO STA.

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<b>TC-22</b>			CONTRACT NO. 61H13	
ILLINOIS FED. AID PROJECT TE-01D(1066)				

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

USER NAME = cfigus  
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 PLOT DATE = 3/31/2021

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 DRAWN - DRP  
 CHECKED - MJR  
 DATE - 3/31/2021

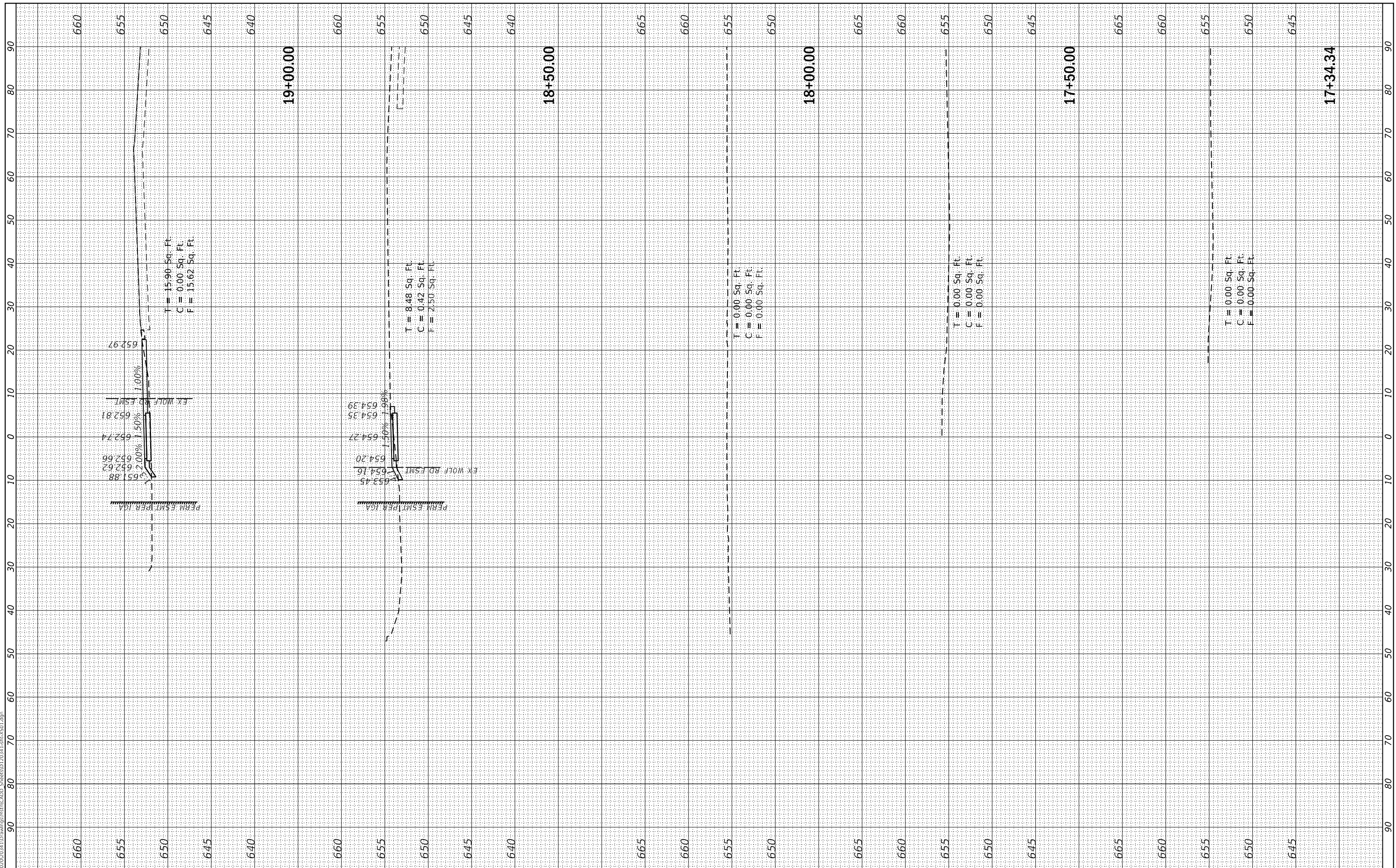
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 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

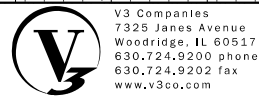
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CONTRACT NO. 61H13				
ILLINOIS FED. AID PROJECT TE-01D1(066)				





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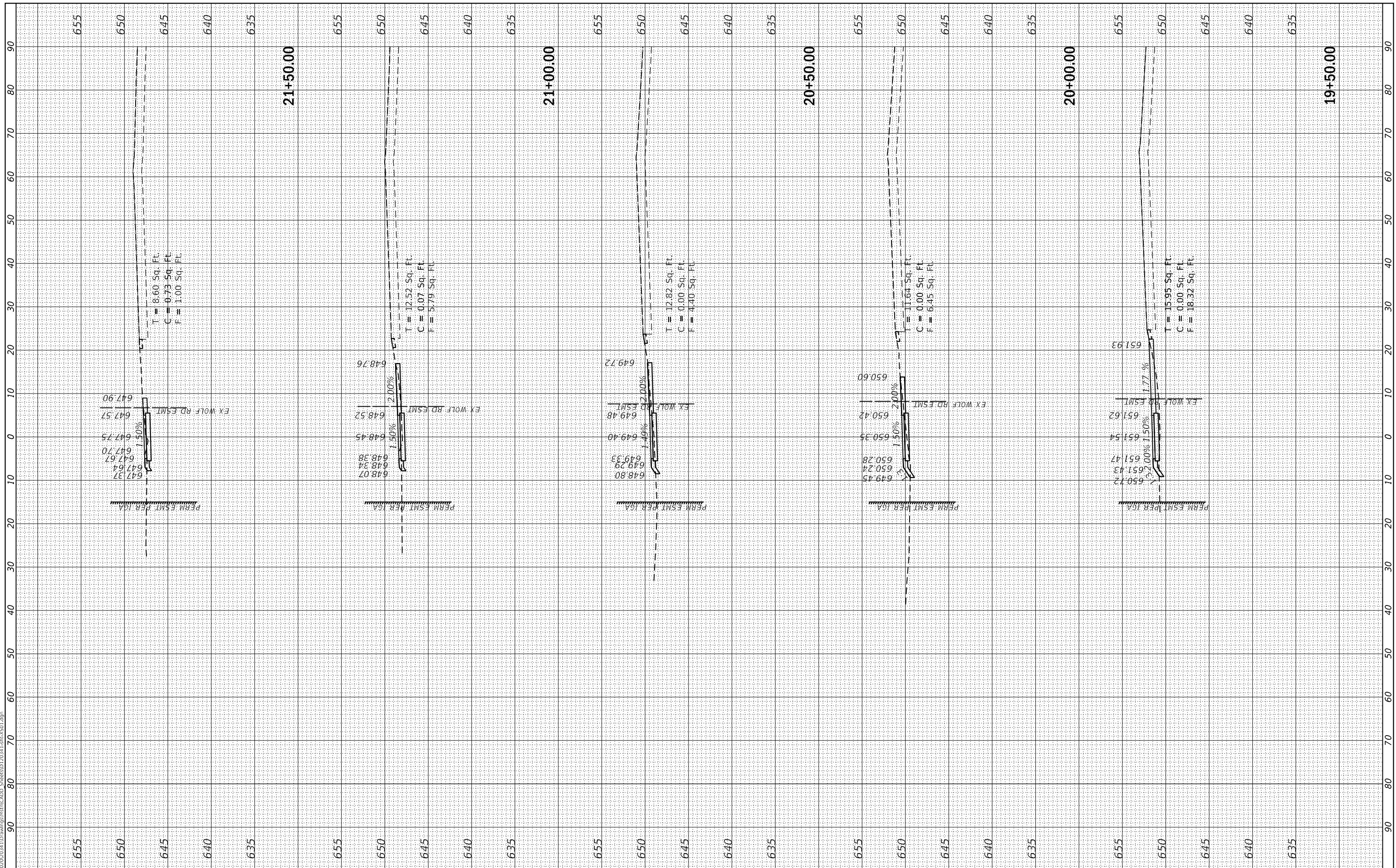
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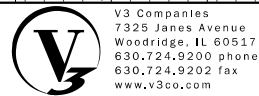
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CONTRACT NO. 61H13				
ILLINOIS FED. AID PROJECT TE-01D1(066)				



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 DRAWN - DRP  
 CHECKED - MJR  
 DATE - 3/31/2021

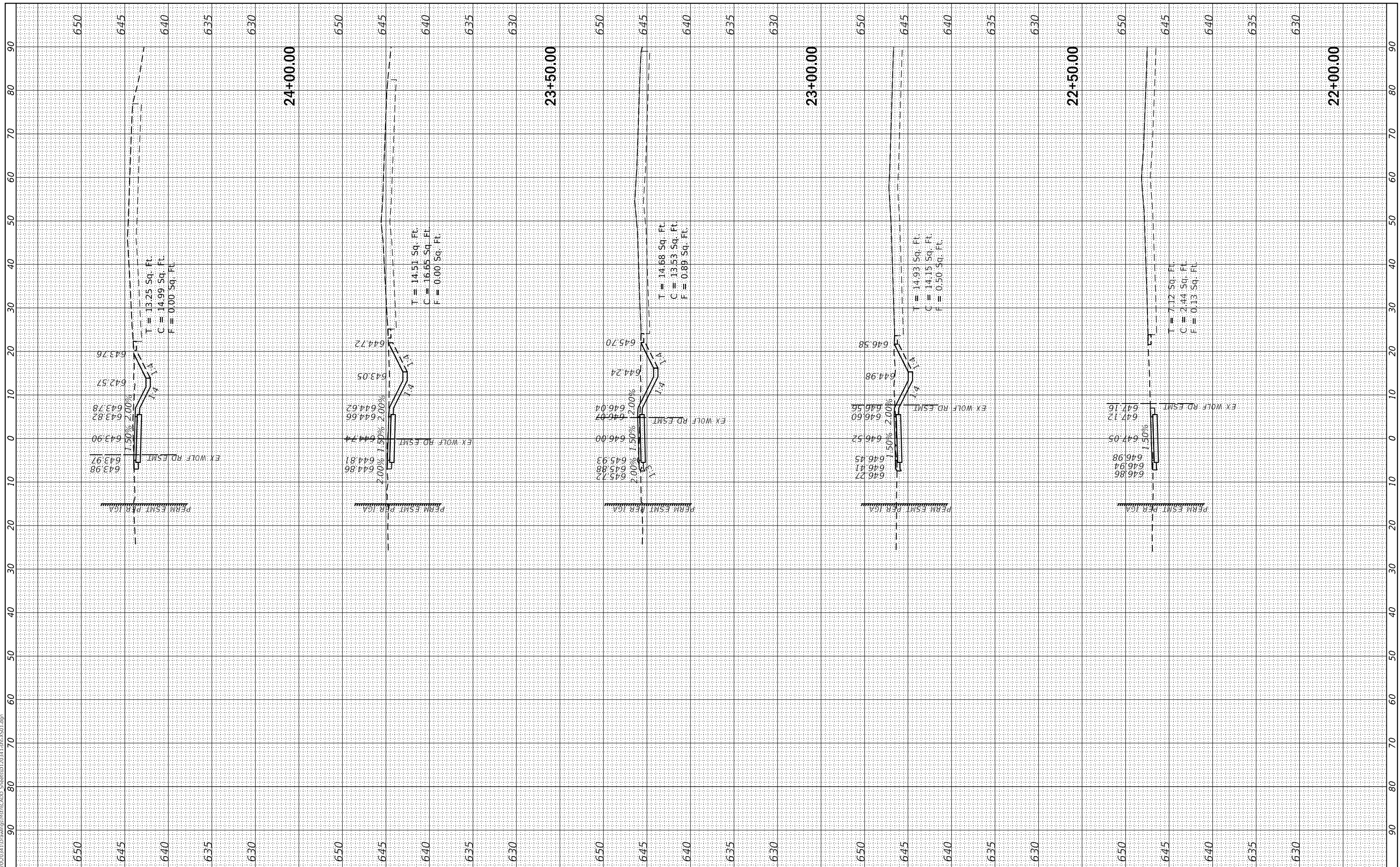
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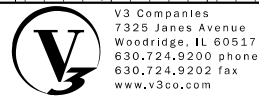
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 61H13				
ILLINOIS FED. AID PROJECT TE-01D1(066)				



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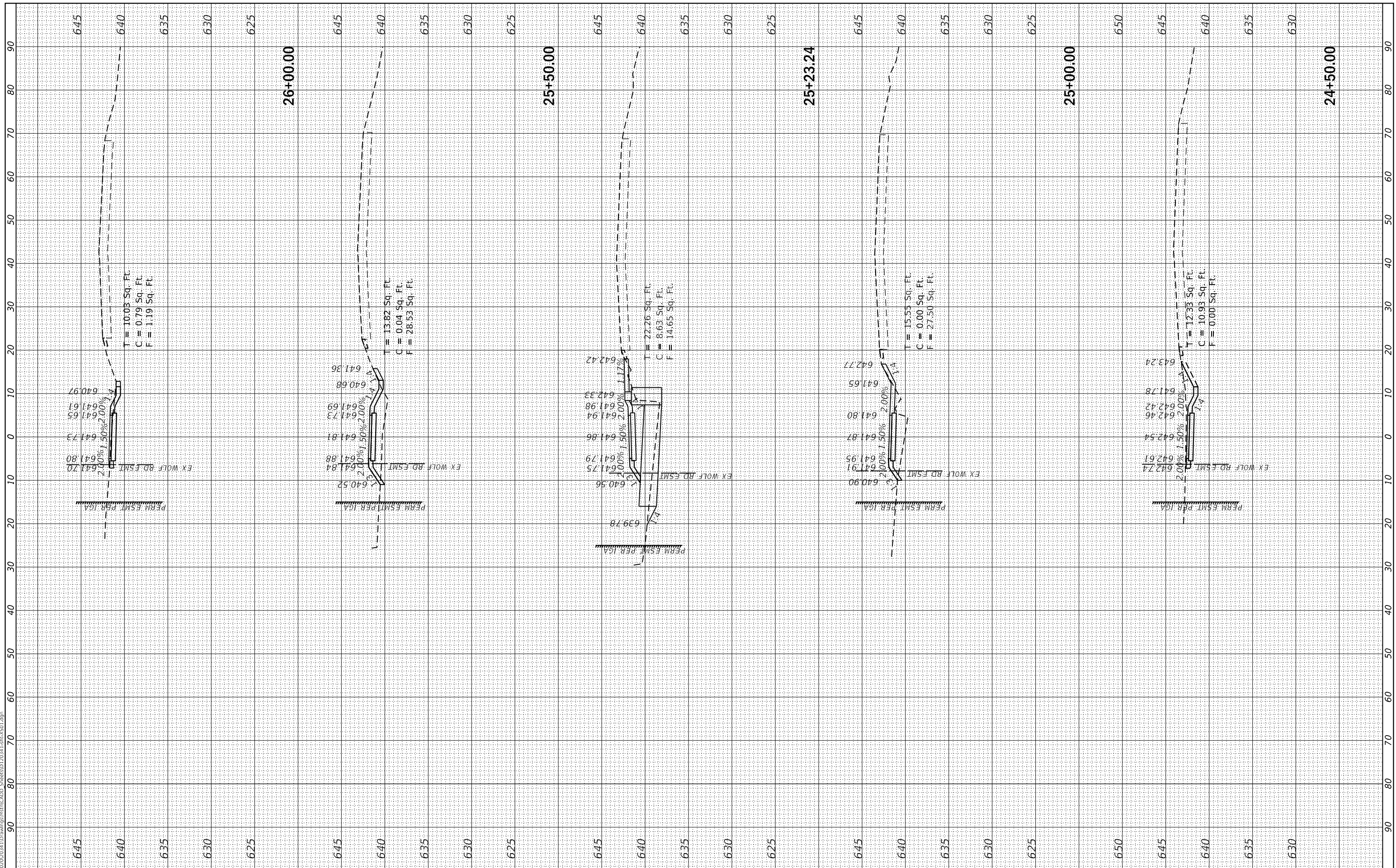
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 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

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CONTRACT NO. 61H13				
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USER NAME = cfigus  
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CROSS SECTIONS

SCALE: 1"=10' SHEET 5 OF 8 SHEETS STA. 26+50.00 TO STA. 28+50.00

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CONTRACT NO. 61H13				
ILLINOIS FED. AID PROJECT TE-01D1066				



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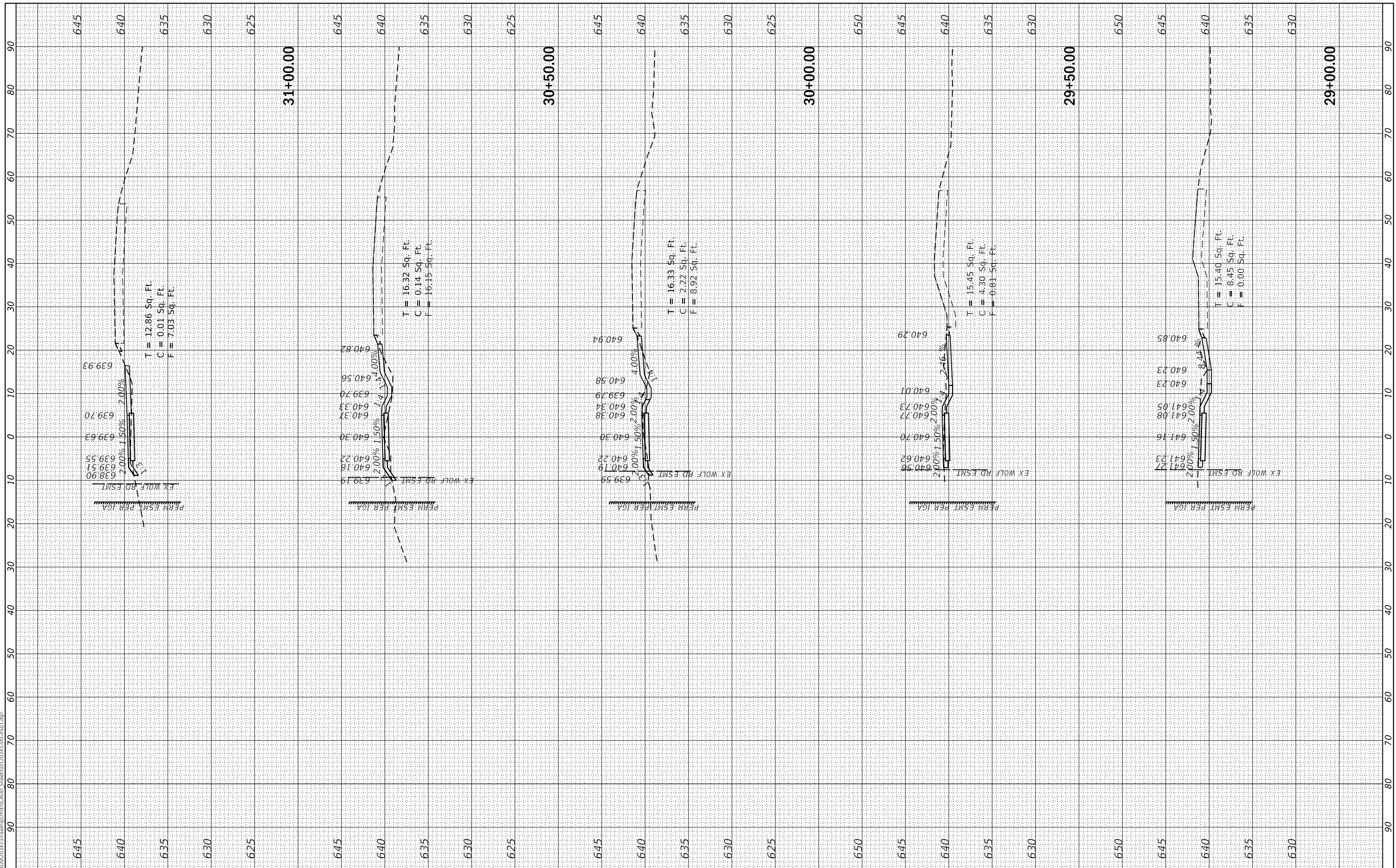
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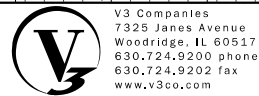
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CONTRACT NO. 61H13				
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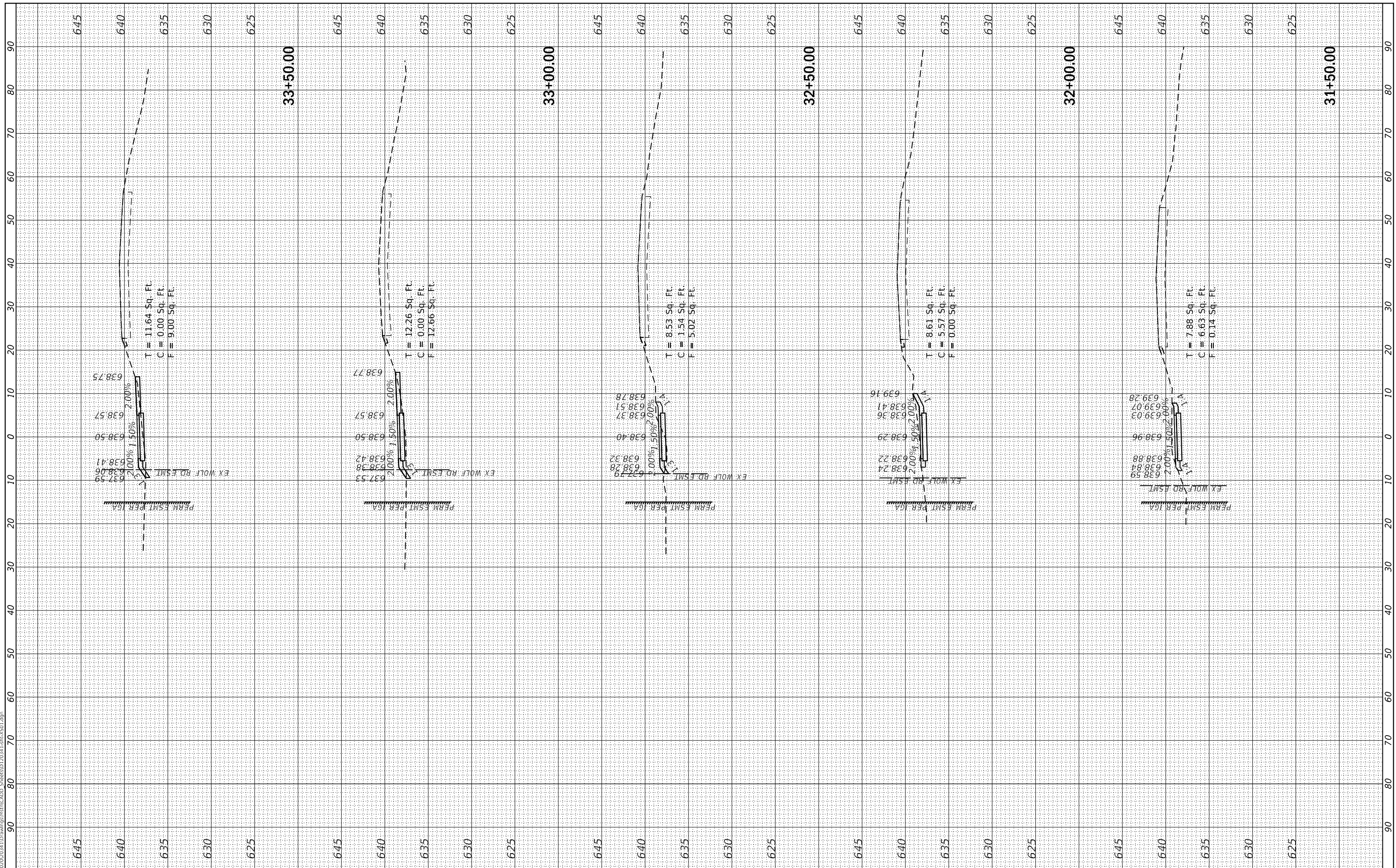
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CROSS SECTIONS

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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2689	16-00095-00-BT	COOK	54	53
CONTRACT NO. 61H13				
ILLINOIS FED. AID PROJECT TE-01D1(066)				



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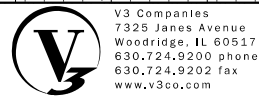
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USER NAME = cfigus  
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SCALE: 1"=10' SHEET 8 OF 8 SHEETS STA. 34+00.00 TO STA. 35+83.05

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2689	16-00095-00-BT	COOK	54	54
CONTRACT NO. 61H13				
ILLINOIS FED. AID PROJECT TE-01D1(066)				

