

F.A.R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	18 00131 00 SW	COOK	143	1
		ILLINOIS	CONTRACT NO. 61J74	

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

01-19-2024 LETTING ITEM 150

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION  
**PLANS FOR PROPOSED  
 FEDERAL AID HIGHWAY**

**GOLF RD (IL 58): DEE RD TO WASHINGTON ST**  
**GREENWOOD AVE: SUNSET RD TO GOLF RD (IL 58)**  
**MILWAUKEE AVE (IL 21): MARYLAND ST TO GOLF RD (IL 58)**  
**SIDEWALK IMPROVEMENTS**  
**SECTION: 18-00131-00-SW**  
**PROJECT: RR9H(398)**  
**VILLAGE OF NILES**  
**COOK COUNTY**  
**JOB: C-91-091-21**

**TRAFFIC DATA**

ADT:  
 GOLF RD 38,100 VPD (2019)  
 GREENWOOD AVE. 19,200 VPD (2018)  
 MILWAUKEE AVE. 33,500 VPD (2019)

**SPEED POSTED**

GOLF RD 40 MPH  
 GREENWOOD AVE. 35 MPH  
 MILWAUKEE AVE. 35 MPH

**DESIGN DESIGNATION**

FAP 339 (GOLF RD) - OTHER PRINCIPAL ARTERIAL  
 FAU 2743 (GREENWOOD AVE.) - MINOR ARTERIAL  
 FAU 374 (MILWAUKEE AVE.) - OTHER PRINCIPAL ARTERIAL

**PROJECT LOCATED IN THE  
 VILLAGE OF NILES**



LOCATION OF SECTION INDICATED THIS: - [black rectangle]



1391 CORPORATE DRIVE, SUITE 203 | McHENRY, ILLINOIS 60050  
 Phone: 815.385.1778 | Toll Free: 800.728.7805 | Fax: 815.385.1781 | HRGreen.com  
 ILLINOIS PROFESSIONAL DESIGN FIRM #184-001322

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

APPROVED August 1st 20 23

*Timothy O'Brien*  
 VILLAGE OF NILES, VILLAGE ENGINEER

PASSED SEPT. 12 20 23

*[Signature]*  
 DISTRICT 1 ENGINEER OF LOCAL ROADS & STREETS

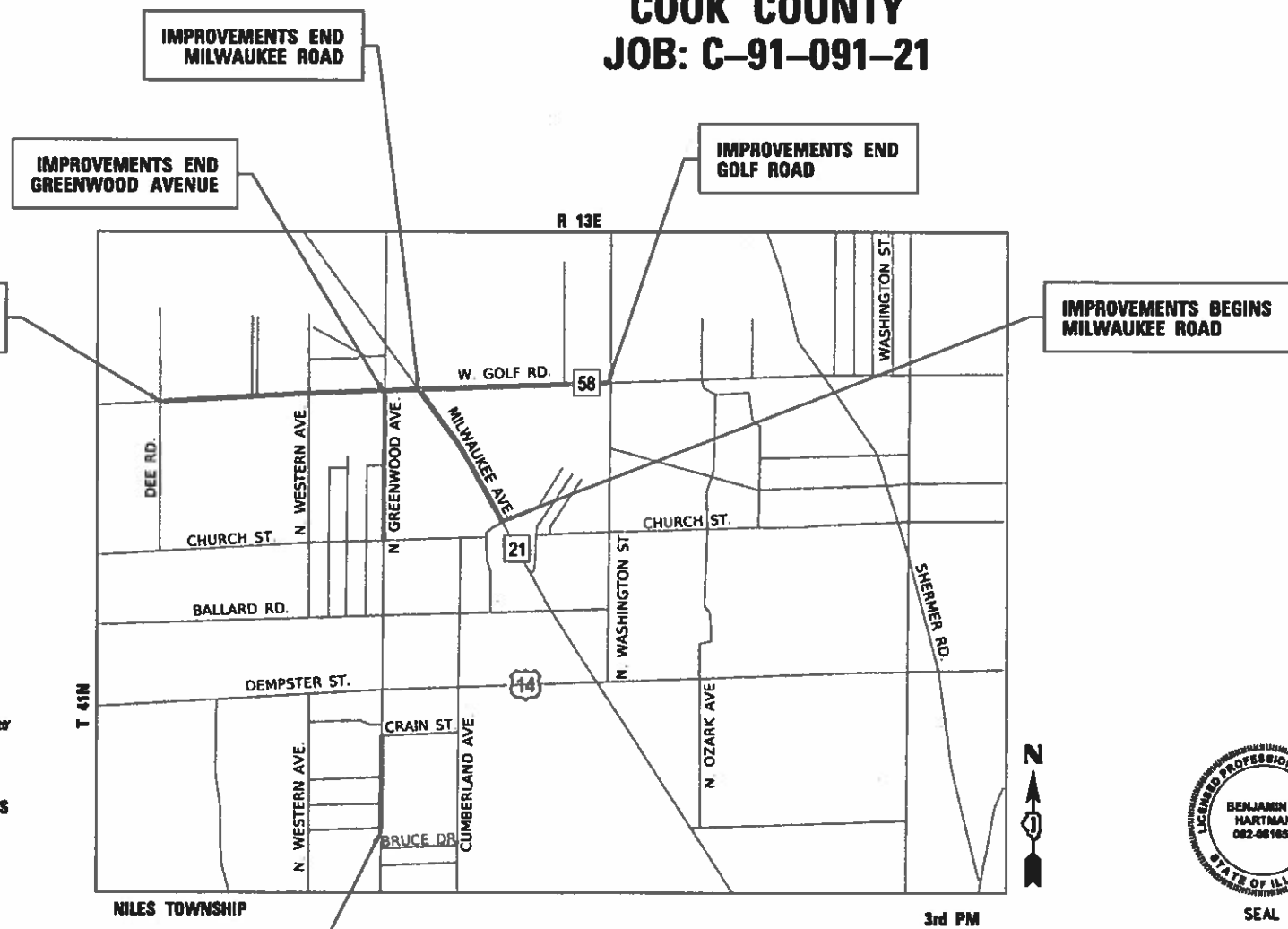
RELEASING FOR BID  
 BASED ON LIMITED REVIEW SEPTEMBER 12 20 23

*[Signature]*  
 REGIONAL ENGINEER



PROFESSIONAL ENGINEER'S SIGN & SEAL

*[Signature]* 8/1/2023  
 BENJAMIN D. HARTMAN, P.E.  
 EXPIRES: 11-30-23



**LOCATION MAP**  
 N.T.S.

**PROJECT LENGTH**

NET AND GROSS LENGTH OF PROJECT= 14,713 FT. = 2.79 MILES



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 EXCAVATORS  
 1-800-892-0123  
 OR 811

PROJECT ENGINEER: B. HARTMAN  
 PROJECT MANAGER: A. CHAUDHRY

CONTRACT NO. 61J74

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

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



CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE		
				HSIP	ITEP	CMAQ
				90% FED 10% LOCAL ROADWAY	80% FED 20% LOCAL ROADWAY	80% FED 20% LOCAL ROADWAY
				0021 URBAN	0028 URBAN	0021 URBAN
# 20101100	TREE TRUNK PROTECTION	EACH	9			9
# 20101200	TREE ROOT PRUNING	EACH	9			9
20200100	EARTH EXCAVATION	CU YD	2,642	1,294	671	677
# 21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	7,275	3,251	3,252	772
# 21101645	TOPSOIL FURNISH AND PLACE, 12"	SQ YD	498			498
# 25000400	NITROGEN FERTILIZER NUTRIENT	POUND	90	40	40	10
# 25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	90	40	40	10
# 25200110	SODDING, SALT TOLERANT	SQ YD	7,275	3,248	3,248	779
# 25200200	SUPPLEMENTAL WATERING	UNIT	191	85	85	21
28000400	PERIMETER EROSION BARRIER	FOOT	7,918	2,274	3,265	2,379
28000510	INLET FILTERS	EACH	82	34	29	19
31101180	SUBBASE GRANULAR MATERIAL, TYPE B 2"	SQ YD	8,018	2,505	2,505	3,008
31101200	SUBBASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	2,456	1,228	1,228	
40604060	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50	TON	6	6		
42300400	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH	SQ YD	617	617		
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	85,704	30,546	30,546	24,612

# SPECIALTY ITEM

Δ CONSTRUCTION CODE 0042

HRG PROJECT NO. 200452  
 HRG PROJ. CONTACT  
 FILE NAME: 200452-sm-80q-8.dgn  
 C:\Users\lucifer\AppData\Local\Temp\200452-sm-80q-8.dgn  
 PLOT DATE: 11/15/2023



USER NAME = bhartma	DESIGNED -	REVISED -
	DRAWN - WJH	REVISED -
PLOT SCALE = 2,000' / in.	CHECKED - BDH	REVISED -
PLOT DATE = 11/15/2023	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**

SCALE: SHEET 1 OF 5 SHEETS STA. TO STA.

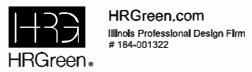
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	18-00131-00-SW	COOK	145	3
CONTRACT NO. 61174			ILLINOIS FED. AID PROJECT	



CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE		
				HSIP	ITEP	CMAQ
				90% FED 10% LOCAL ROADWAY	80% FED 20% LOCAL ROADWAY	80% FED 20% LOCAL ROADWAY
				0021 URBAN	0028 URBAN	0021 URBAN
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	7	3	3	1
67100100	MOBILIZATION	L SUM	1	0.4	0.4	0.2
70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1	0.4	0.4	0.2
70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	1	0.4	0.4	0.2
70102632	TRAFFIC CONTROL AND PROTECTION, STANDARD 701602	L SUM	1	0.4	0.4	0.2
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	0.4	0.4	0.2
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	0.4	0.4	0.2
# 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	2,125		1058	1067
# 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	215	98	75	42
# 78009012	MODIFIED URETHANE PAVEMENT MARKING - LINE 12"	FOOT	306		306	
78300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	434	200	150	84
# 80400100	ELECTRIC SERVICE INSTALLATION	EACH	2		2	
# 80400200	ELECTRIC UTILITY SERVICE CONNECTION	L SUM	1		1	
# 81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	108	60	30	18
# 81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	277	77	200	
# 81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	3,549		3549	

# SPECIALTY ITEM  
 Δ CONSTRUCTION CODE 0042

HRG PROJECT NO. 200452  
 HRG PROJ. CONTACT  
 FILE NAME: 200452-sm-80q-5.dgn  
 CTO: JEN-LEWIS@hrgreen.com  
 PER: TABLE PROFESSIONAL



USER NAME = bhartma	DESIGNED -	REVISED -
	DRAWN - WJH	REVISED -
PLOT SCALE = 2,000' / in.	CHECKED - BDH	REVISED -
PLOT DATE = 11/15/2023	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

SCALE:		SUMMARY OF QUANTITIES	
		SHEET 3 OF 5 SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	18-00131-00-SW	COOK	145	5
			CONTRACT NO. 61174	
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE		
				HSIP 90% FED 10% LOCAL ROADWAY	ITEP 80% FED 20% LOCAL ROADWAY	CMAQ 80% FED 20% LOCAL ROADWAY
				0021 URBAN	0028 URBAN	0021 URBAN
# 81702460	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 3/0	FOOT	200		200	
# 82500370	LIGHTING CONTROLLER, BASE MOUNTED, 240VOLT, 200AMP	EACH	2		2	
# 83600200	LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	1,020		1020	
# 85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	4	1	1	2
# 87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	2,180		1354	826
# 87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	2,147		1447	700
# 87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	259		259	
# 87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	153		153	
# 87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1,151	445	534	172
# 87800100	CONCRETE FOUNDATION, TYPE A	FOOT	28	20		8
# 87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	11	11		
# 87900200	DRILL EXISTING HANDHOLE	EACH	8	6		2
# 88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	16	12		4
# 89501300	RELOCATE EXISTING MAST ARM ASSEMBLY AND POLE	EACH	1	1		
# 89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	2			2
# 89502376	REBUILD EXISTING HANDHOLE	EACH	6		6	

# SPECIALTY ITEM

Δ CONSTRUCTION CODE 0042

HRG PROJECT NO. 200452  
 HRG PROJ. CONTACT  
 FILE NAME: 200452-sm-89q-8.dgn  
 C:\Users\lucifer\OneDrive\Documents\HRG\200452\200452.dwg  
 PLOT DATE: 11/15/2023



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	DRAWN - WJH	REVISED -
PLOT SCALE = 2,0000 ' / in.	CHECKED - BDH	REVISED -
PLOT DATE = 11/15/2023	DATE -	REVISED -

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

**SUMMARY OF QUANTITIES**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	18-00131-00-SW	COOK	145	6
CONTRACT NO. 61174			ILLINOIS FED. AID PROJECT	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE		
				HSIP	ITEP	CMAQ
				90% FED 10% LOCAL ROADWAY	80% FED 20% LOCAL ROADWAY	80% FED 20% LOCAL ROADWAY
				0021 URBAN	0028 URBAN	0021 URBAN
# 89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	1			1
# K0012990	PERENNIAL PLANTS, ORNAMENTAL TYPE, GALLON POT	UNIT	29			29
# K1001988	IRRIGATION SYSTEM SPECIAL	L SUM	1			1
# X0326885	VIDEO DETECTION SYSTEM	EACH	1		1	
X1700067	STAMPED COLORED PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH	SQ FT	4,568			4568
# X1400265	WIRELESS LIGHTING CONTROL SYSTEM	L SUM	1		1	
# X1400378	PEDESTRIAN SIGNAL POST, 5 FT.	EACH	7	1	4	2
X4022000	TEMPORARY ACCESS (COMMERCIAL ENTRANCE)	EACH	5		5	
X4240800	DETECTABLE WARNINGS (SPECIAL)	SQ FT	258	129	129	
# X8163605	UNIT DUCT, 600V, 7-1/C NO. 6, 1/C NO. 8 GROUND, (XLP-TYPE USE), 2" DIA. POLYETHYLENE	FOOT	16,449		16,449	
# X8250500	LIGHTING UNIT COMPLETE, SPECIAL	EACH	102		102	
# X8760200	ACCESSIBLE PEDESTRIAN SIGNALS	EACH	16	3		13
# K1005875	TREE TRANSPLANT	EACH	12			12
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	0.4	0.4	0.2
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	208	52	104	52
Δ Z0076600	TRAINEES	HOUR	500			
# SPECIALTY ITEM						
Δ CONSTRUCTION CODE 0042						
Δ Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	500			

HRG PROJECT NO. 200452  
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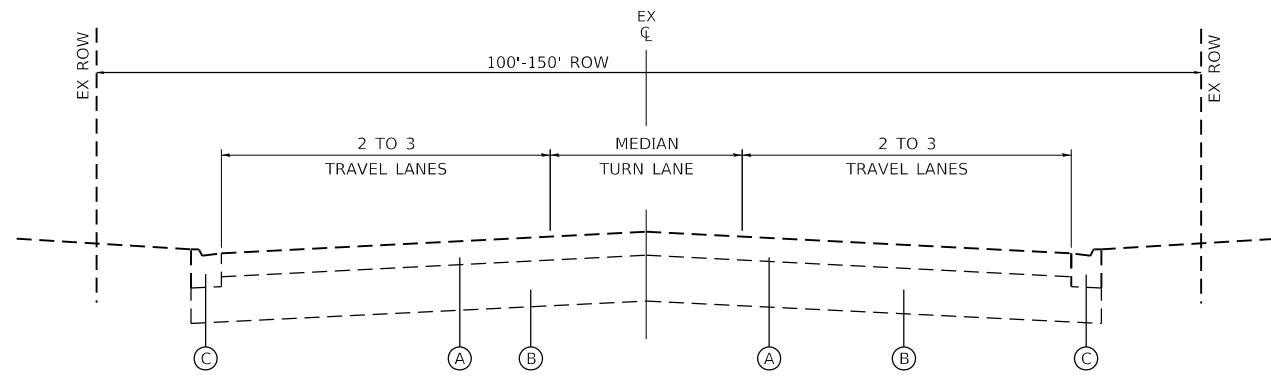
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**

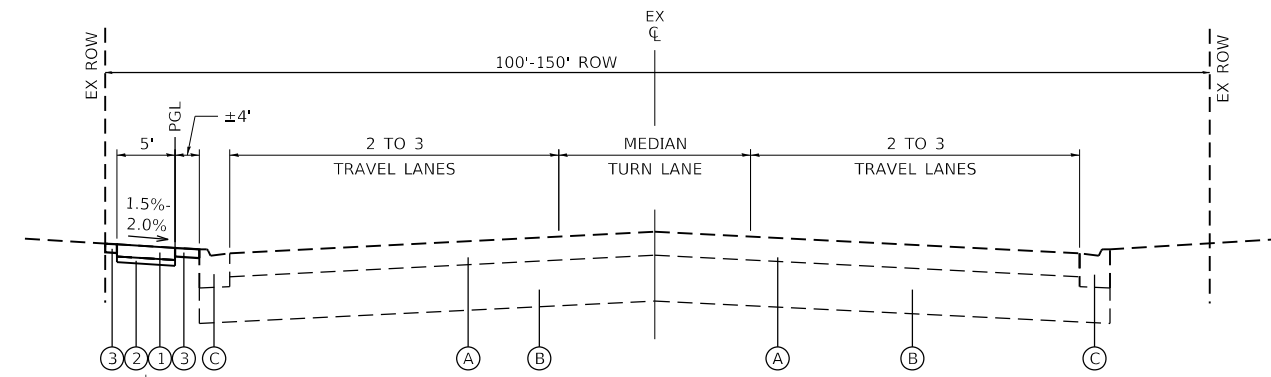
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	18-00131-00-SW	COOK	145	7
CONTRACT NO.			61174	
ILLINOIS FED. AID PROJECT				



**EXISTING TYPICAL SECTION**

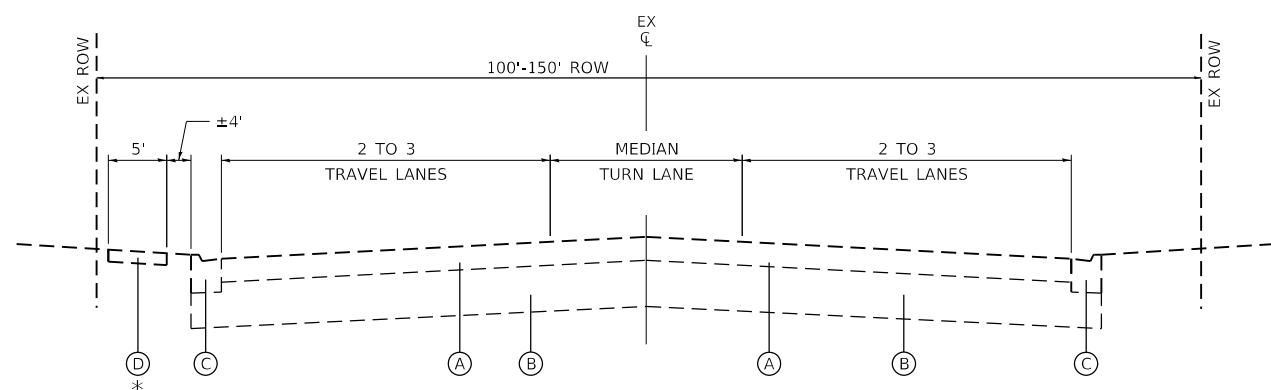
GOLF ROAD: STA 100+18.94 TO STA 113+92.30  
 GOLF ROAD: STA 200+33.86 TO STA 209+65.86  
 GOLF ROAD: STA 300+07.16 TO STA 308+27.47  
 GOLF ROAD: STA 400+00.00 TO STA 401+54.77  
 GOLF ROAD: STA 500+06.34 TO STA 526+93.57  
 GOLF ROAD: STA 600+10.46 TO STA 606+92.49  
 GOLF ROAD: STA 700+34.55 TO STA 708+03.02  
 GOLF ROAD: STA 800+15.95 TO STA 803+87.85  
 GOLF ROAD: STA 36+00.00 TO STA 40+69.88



**PROPOSED TYPICAL SECTION**

GOLF ROAD: STA 113+92.30 TO STA 114+48.82

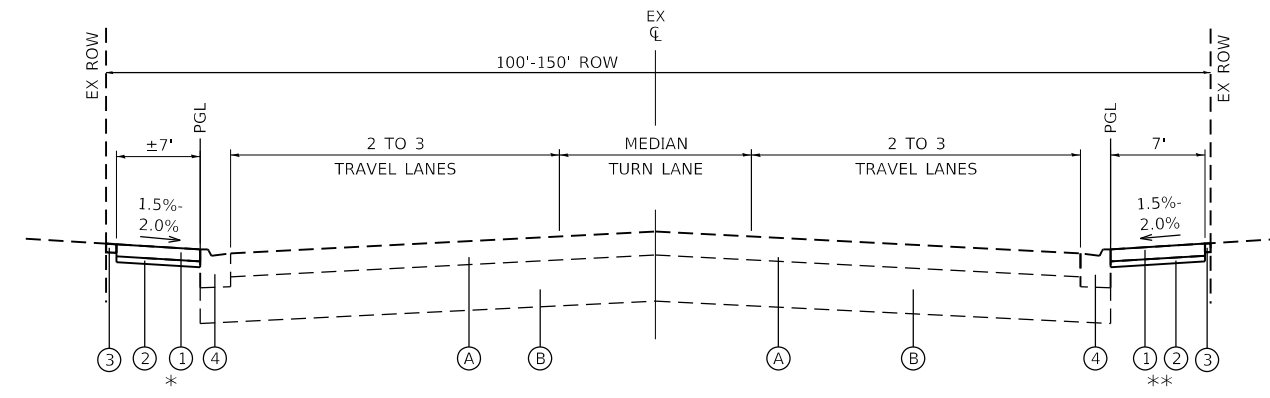
\* TYPICAL FOR LOCATIONS SEPARATED FROM CURB AND GUTTER



**EXISTING TYPICAL SECTION**

GOLF ROAD: STA 113+92.30 TO STA 114+48.82

\* TYPICAL FOR LOCATIONS SEPARATED FROM CURB AND GUTTER

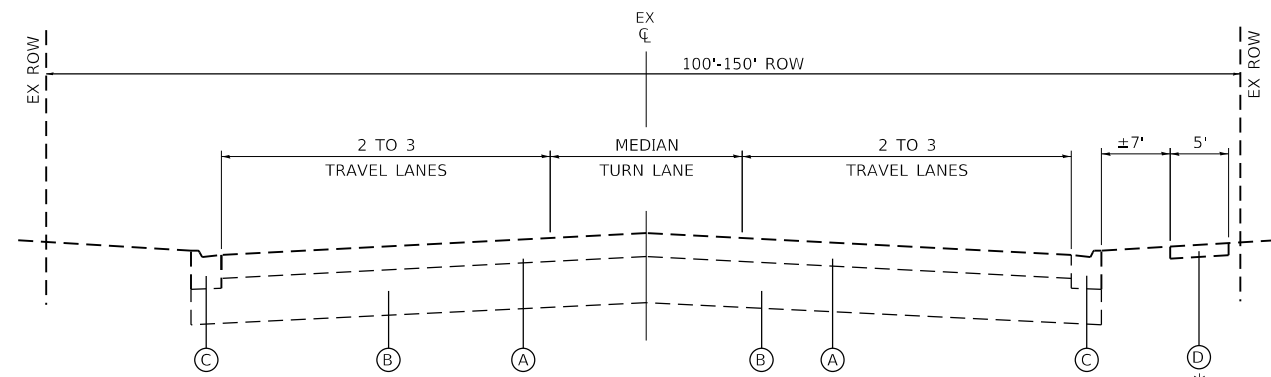


**PROPOSED TYPICAL SECTION**

GOLF ROAD: STA 100+18.94 TO STA 113+92.30  
 GOLF ROAD: STA 200+33.86 TO STA 209+65.86  
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 GOLF ROAD: STA 36+00.00 TO STA 40+69.88

\* TYPICAL FOR LOCATIONS ADJACENT TO CURB AND GUTTER

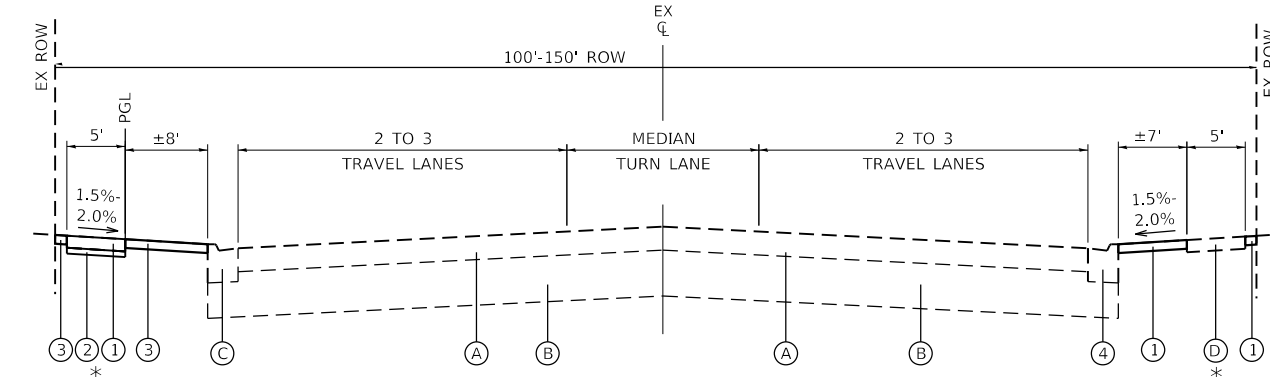
\*\* TYPICAL FOR LOCATIONS ADJACENT TO CURB AND GUTTER



**EXISTING TYPICAL SECTION**

GOLF ROAD: STA 526+93.57 TO STA 533+18.49

\* TYPICAL FOR LOCATIONS SEPARATED FROM CURB AND GUTTER



**PROPOSED TYPICAL SECTION**

GOLF ROAD: STA 526+93.57 TO STA 533+18.49

\* TYPICAL FOR LOCATIONS SEPARATED FROM CURB AND GUTTER

\* TYPICAL FOR LOCATIONS SEPARATED FROM CURB AND GUTTER

**PROPOSED TYPICAL SECTION LEGEND**

- ① PCC SIDEWALK, 5 INCH
- ② SUBBASE GRANULAR MATERIAL TYPE B, 2 INCH
- ③ SODDING, SALT TOLERANT
- ④ COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT

**EXISTING TYPICAL SECTION LEGEND**

- Ⓐ EXISTING PAVEMENT
- Ⓑ EXISTING BASE COURSE
- Ⓒ EXISTING CONCRETE CURB AND GUTTER
- Ⓓ EXISTING PCC SIDEWALK

HOT-MIX ASPHALT MIXTURE REQUIREMENTS		QMP
MIXTURE TYPE	AIR VOIDS @ Ndes	
HMA SIDEWALK		
HMA SURFACE COURSE, IL-9.5, MIX "D", N50; 2"	4% @ 50 GYR.	LR1030-2

QMP DESIGNATION IS QUALITY CONTROL/QUALITY ASSURANCE PER LR 1030-2

1. THE UNIT WEIGHT TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN  
 2. THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY RECLAIMED MATERIALS SPECIFICATIONS.



USER NAME = bhartma	DESIGNED -	REVISED -
	DRAWN - W/JH	REVISED -
PLOT SCALE = 10.0000' / in.	CHECKED - BDH	REVISED -
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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

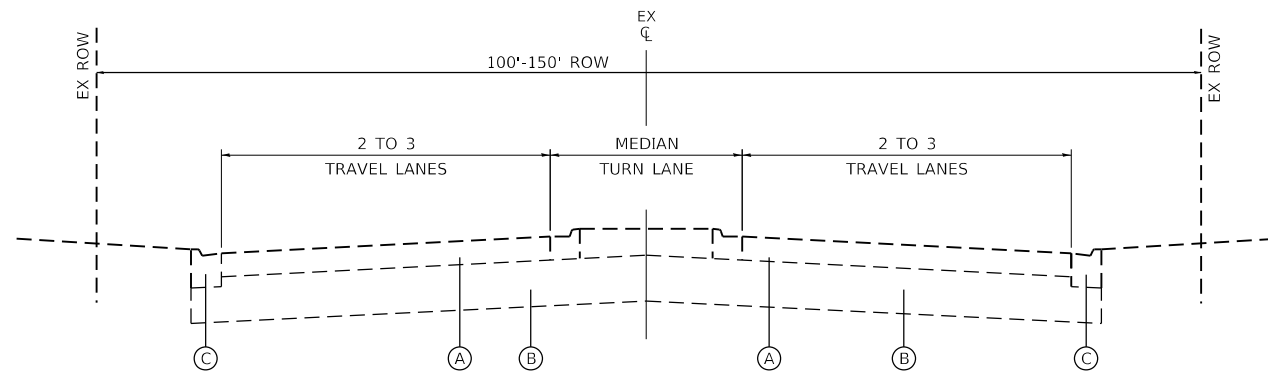
TYPICAL SECTION  
 GOLF ROAD

SCALE: SHEET 1 OF 3 SHEETS STA. TO STA.

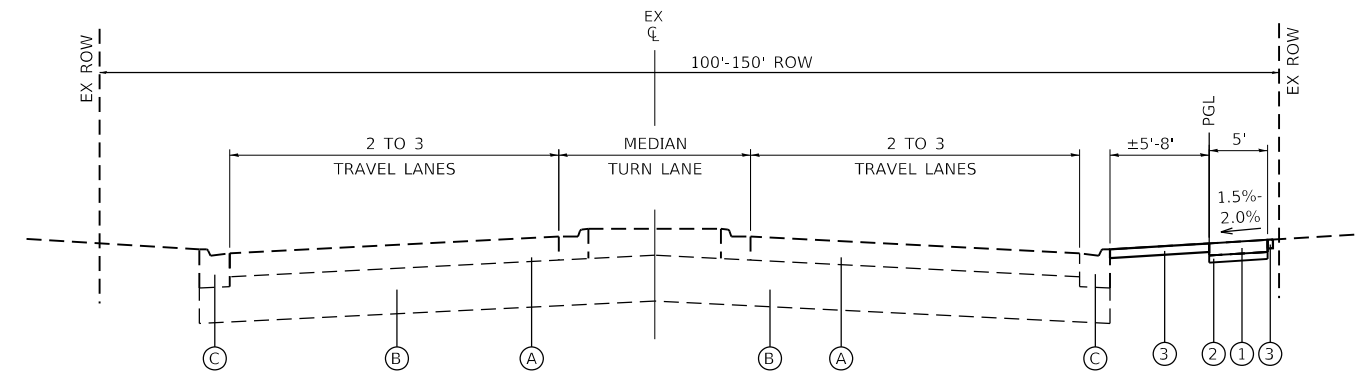
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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HRG PROJECT NO. 200452  
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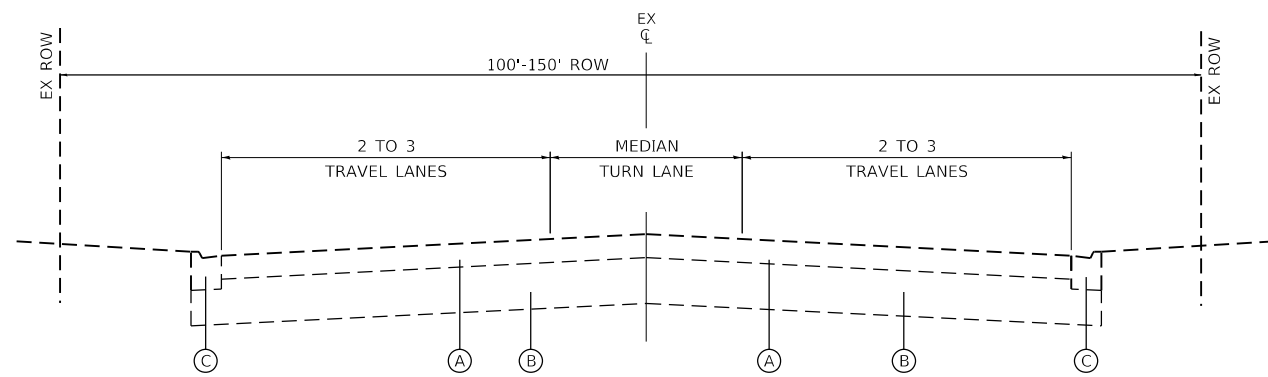




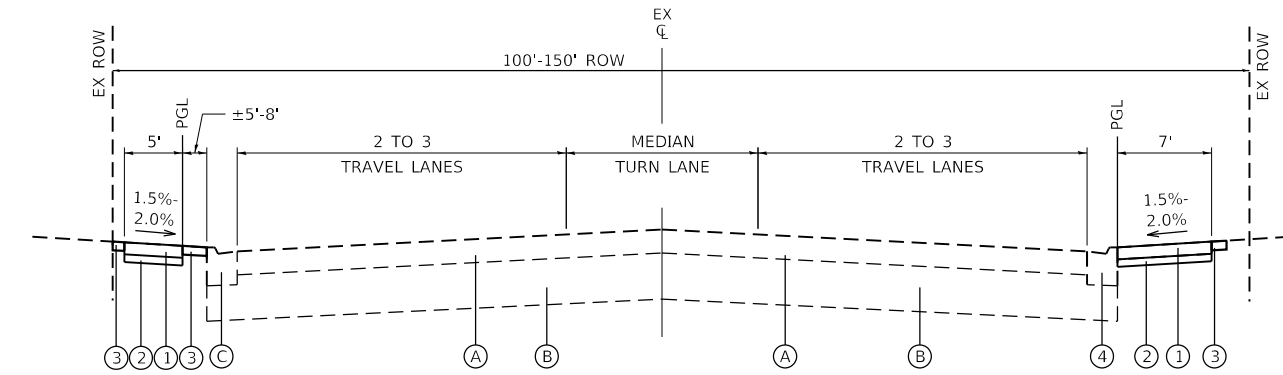
**EXISTING TYPICAL SECTION**  
GREENWOOD AVE: STA 1013+15.0 TO STA 1017+46.64



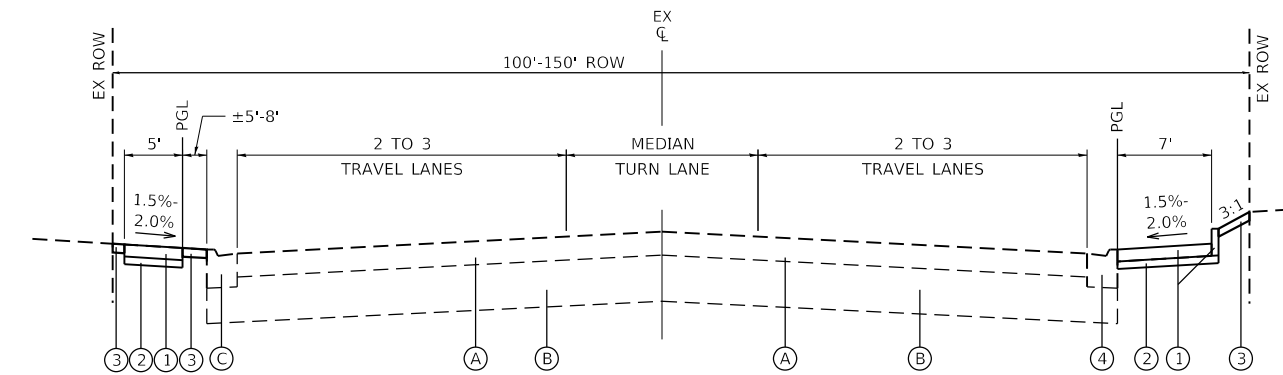
**PROPOSED TYPICAL SECTION**  
GREENWOOD AVE: STA 1013+15.0 TO STA 1017+46.64  
GREENWOOD AVE: STA 10+40.6 TO STA 29+83.10



**EXISTING TYPICAL SECTION**  
GREENWOOD AVE: STA 900+20.42 TO STA 906+18.94  
GREENWOOD AVE: STA 10+40.6 TO STA 40+63.69  
GREENWOOD AVE: STA 1100+00.0 TO STA 1101+47.8



**PROPOSED TYPICAL SECTION**  
GREENWOOD AVE: STA 900+20.42 TO STA 906+18.94  
GREENWOOD AVE: STA 28+92.0 TO STA 40+63.69  
GREENWOOD AVE: STA 1100+00.0 TO STA 1101+14.7



**PROPOSED TYPICAL SECTION**  
GREENWOOD AVE: STA 29+83.10 TO STA 40+63.69

\* PROPOSED SIDEWALK AND SIDE CURB FOLLOWING HIGHWAY STANDARD 424001

**PROPOSED TYPICAL SECTION LEGEND**

- ① PCC SIDEWALK, 5 INCH
- ② SUBBASE GRANULAR MATERIAL TYPE B, 4 INCH
- ③ SODDING, SALT TOLERANT
- ④ COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT

**EXISTING TYPICAL SECTION LEGEND**

- Ⓐ EXISTING PAVEMENT
- Ⓑ EXISTING BASE COURSE
- Ⓒ EXISTING CONCRETE CURB AND GUTTER
- Ⓓ EXISTING PCC SIDEWALK

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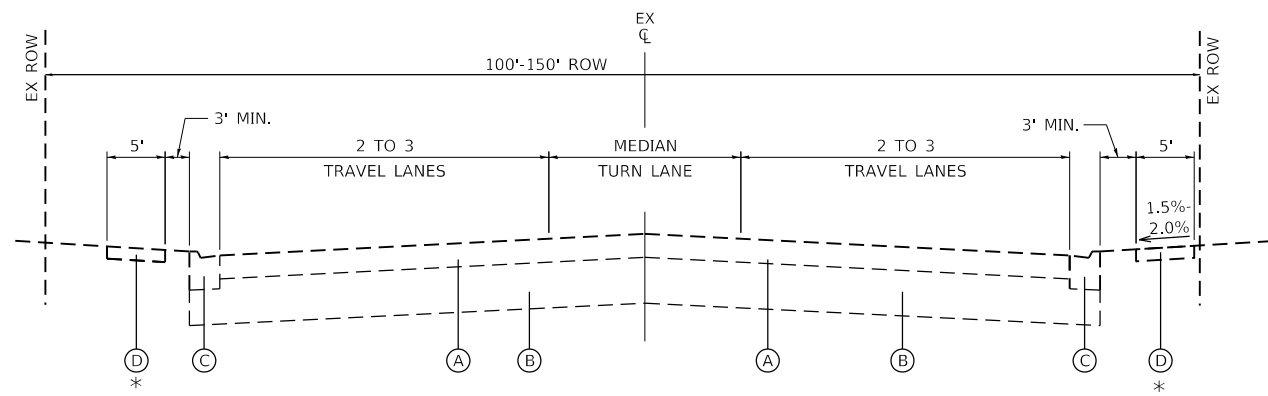
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTION  
GREENWOOD AVENUE**

SCALE: SHEET 2 OF 3 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	18-00131-00-SW	COOK	145	9
CONTRACT NO. 61174				
ILLINOIS FED. AID PROJECT				

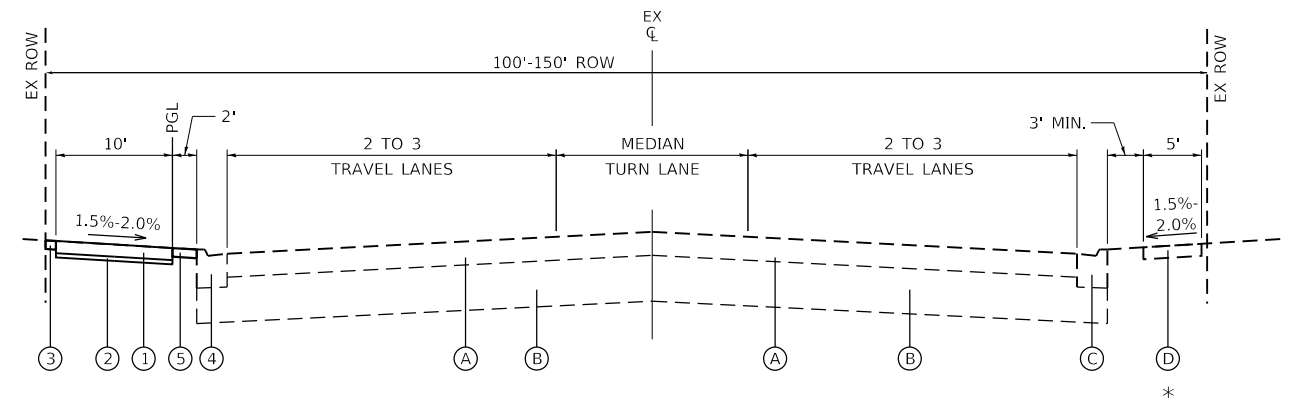


\* TYPICAL FOR LOCATIONS SEPARATED FROM CURB AND GUTTER

**EXISTING TYPICAL SECTION**

MILWAUKEE AVENUE: STA 2000+05.3 TO STA 2000+76.16

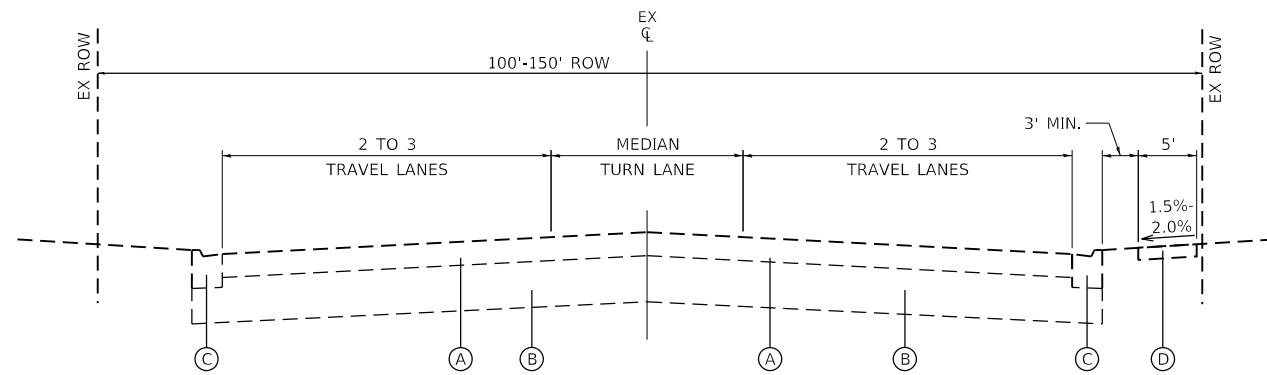
\* TYPICAL FOR LOCATIONS ADJACENT TO CURB AND GUTTER



**PROPOSED TYPICAL SECTION**

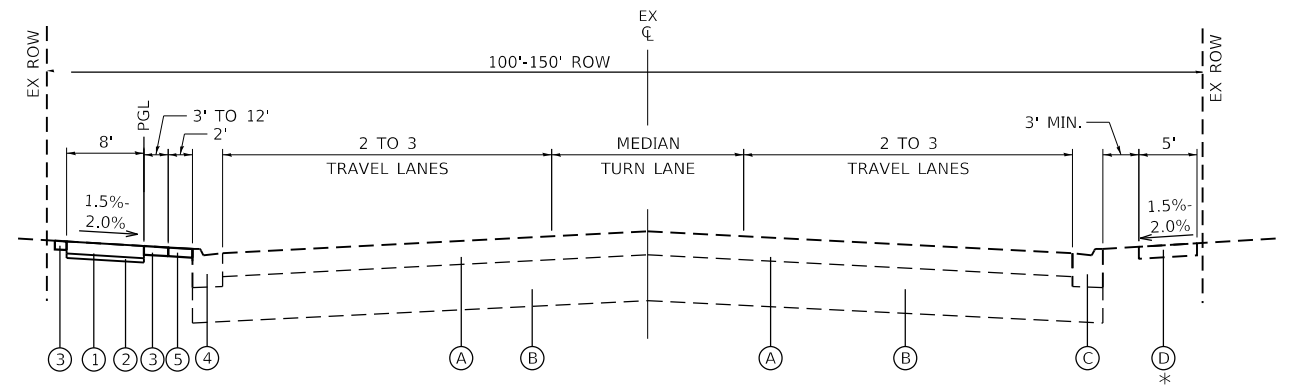
MILWAUKEE AVENUE: STA 2000+05.3 TO STA 2000+76.16

\* TYPICAL FOR LOCATIONS ADJACENT TO CURB AND GUTTER



**EXISTING TYPICAL SECTION**

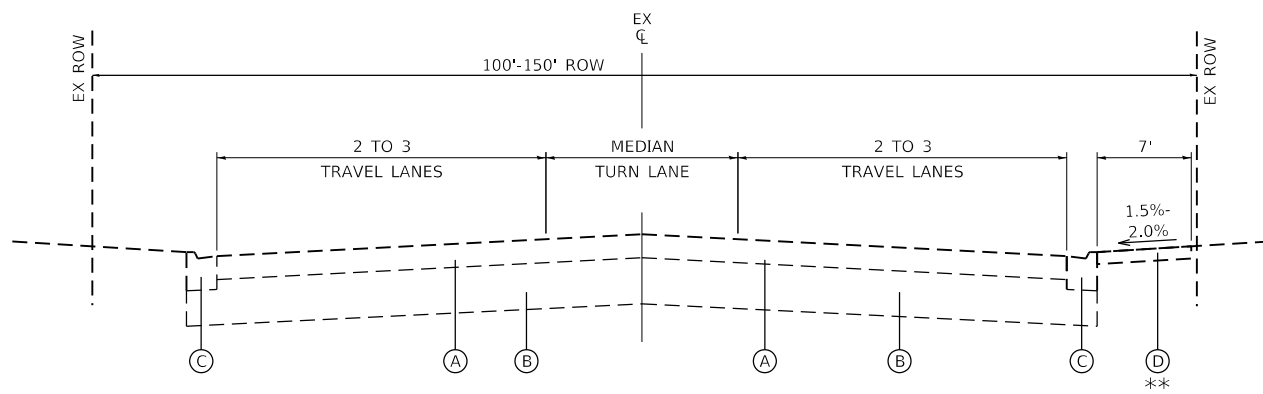
MILWAUKEE AVENUE: STA 2000+76.16 TO STA 2008+94.21



**PROPOSED TYPICAL SECTION**

MILWAUKEE AVENUE: STA 2000+76.16 TO STA 2008+94.21

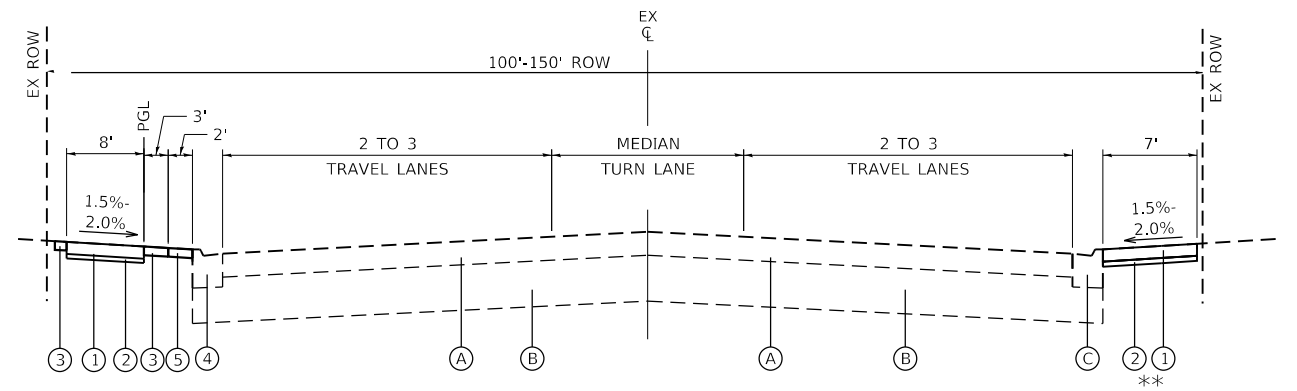
\* TYPICAL FOR LOCATIONS ADJACENT TO CURB AND GUTTER



**EXISTING TYPICAL SECTION**

MILWAUKEE AVENUE: STA 2008+94.21 TO 2027.82.64  
MILWAUKEE AVENUE: 3020+91.17 TO 3024+35.57

\*\* TYPICAL FOR LOCATIONS ADJACENT TO CURB AND GUTTER



**PROPOSED TYPICAL SECTION**

MILWAUKEE AVENUE: STA 2008+94.21 TO 2027.82.64  
MILWAUKEE AVENUE: 3020+91.17 TO 3024+35.57

\*\* STA 3009+62 TO STA 3010+49  
STA 3020+91 TO STA 3024+35

**PROPOSED TYPICAL SECTION LEGEND**

- ① PCC SIDEWALK, 5 INCH
- ② SUBBASE GRANULAR MATERIAL TYPE B, 2 INCH
- ③ SODDING, SALT TOLERANT
- ④ COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT
- ⑤ STAMPED COLORED PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH

**EXISTING TYPICAL SECTION LEGEND**

- (A) EXISTING PAVEMENT
- (B) EXISTING BASE COURSE
- (C) EXISTING CONCRETE CURB AND GUTTER
- (D) EXISTING PCC SIDEWALK

HRG PROJECT NO: 200452  
 HRG PROJ CONTACT:  
 FILE NAME: 200452-SHT-TYPICAL.dgn  
 PEN TABLE: 1/10/2023



USER NAME = bhartma	DESIGNED -	REVISED -
	DRAWN - W/JH	REVISED -
PLOT SCALE = 10.0000' / in.	CHECKED - BDH	REVISED -
PLOT DATE = 11/15/2023	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTION  
MILWAUKEE AVENUE**

SCALE: SHEET 3 OF 3 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	18-00131-00-SW	COOK	145	10
			CONTRACT NO. 61174	
		ILLINOIS FED. AID PROJECT		

LOCATION	STA. FROM	STA. TO	ITEM NO.	25200110	31101180	31101200	42400200	42400410	44000500	44000600	60605000
			ITEM NAME	SODDING SALT TOLERANT	SUB GRAN MAT B 2	SUB GRAN MAT B 4	PC CONC SIDEWALK 5	PC CONC SIDEWALK 8	COMB CURB GUTTER REM	SIDEWALK REM	COMB CC&G TB6.24
			UNIT	SQ YD	SQ YD	SQ YD	SQ FT	SQ FT	FOOT	SQ FT	FOOT
GOLF RD	100+18	114+48		1880	787	0	6438	0	78	130	78
GOLF RD	200+34	209+65		337	771	0	6308	0	912	0	912
GOLF RD	300+07	308+27		0	425	0	3478	0	575	0	575
GOLF RD	400+00	401+56		0	55	0	449	0	170	0	170
GOLF RD	500+06	520+48		512	1386	0	11342	0	1618	279	1618
GOLF RD	527+12	533+41		649	405	0	3309	0	0	0	0
GOLF RD	600+10	606+92		0	453	0	3712	0	585	0	585
GOLF RD	700+34	708+03		0	468	0	3830	0	846	144	846
GOLF RD	800+16	803+94		179	260	0	2127	0	359	0	359
GREENWOOD AVE	1013+15	1017+46		335	0	216	1772	120	119	318	119
GREENWOOD AVE	10+05	40+63		2149	0	1820	14892	240	1106	0	1106
GREENWOOD AVE	900+20	906+18		462	0	420	3435	120	98	0	98
MILWAUKEE AVE	2000+04	2027+82		772	2673	0	21866	0	2551	503	2551
MILWAUKEE AVE	3000+10	3024+54		0	335	0	2746	0	86	2510	86
TOTALS				7275	8018	2456	85704	480	9103	3884	9103

EARTHWORK SCHEDULE

LOCATION		EARTH EXCAVATION (CU YD)	15% SHRINKAGE ADJUSTMENT	EARTHWORK BALANCE WASTE (+) SHORTAGE (-) (CU YD)
ROADWAY	STATIONING			
GOLF RD	STA. 100+18 TO STA. 114+48	196.2	29.4	166.8
GOLF RD	STA. 200+34 TO STA. 209+65	143.3	21.5	121.8
GOLF RD	STA. 300+07 TO STA. 308+27	131.4	19.7	111.7
GOLF RD	STA. 400+00 TO STA. 401+47	13.9	2.1	11.8
GOLF RD	STA. 500+06 TO STA. 520+48	403.1	60.5	342.6
GOLF RD	STA. 527+12 TO STA. 533+41	66.3	9.9	56.4
GOLF RD	STA. 600+10 TO STA. 606+92	151.1	22.7	128.4
GOLF RD	STA. 700+34 TO STA. 708+03	143.6	21.5	122.1
GOLF RD	STA. 800+16 TO STA. 803+94	45.5	6.8	38.7
GREENWOOD AVE	STA. 1013+15 TO STA. 1017+46	52.7	7.9	44.8
GREENWOOD AVE	STA. 900+20 TO STA. 906+18	74.5	11.2	63.3
GREENWOOD AVE	STA. 10+05 TO STA. 40+63	543.2	81.5	461.7
MILWAUKEE AVE	STA. 2000+05 TO STA. 2027+82	677.2	101.6	575.6
SUB-TOTAL		2642.0	396.3	2245.7

HRG PROJECT NO.: 200452  
 HRG PROJ. CONTACT:  
 FILE NAME: 200452-shr-schedule.dgn  
 PLOT DATE: 11/15/2023  
 PEN TABLE: 10/10/2023.tbl



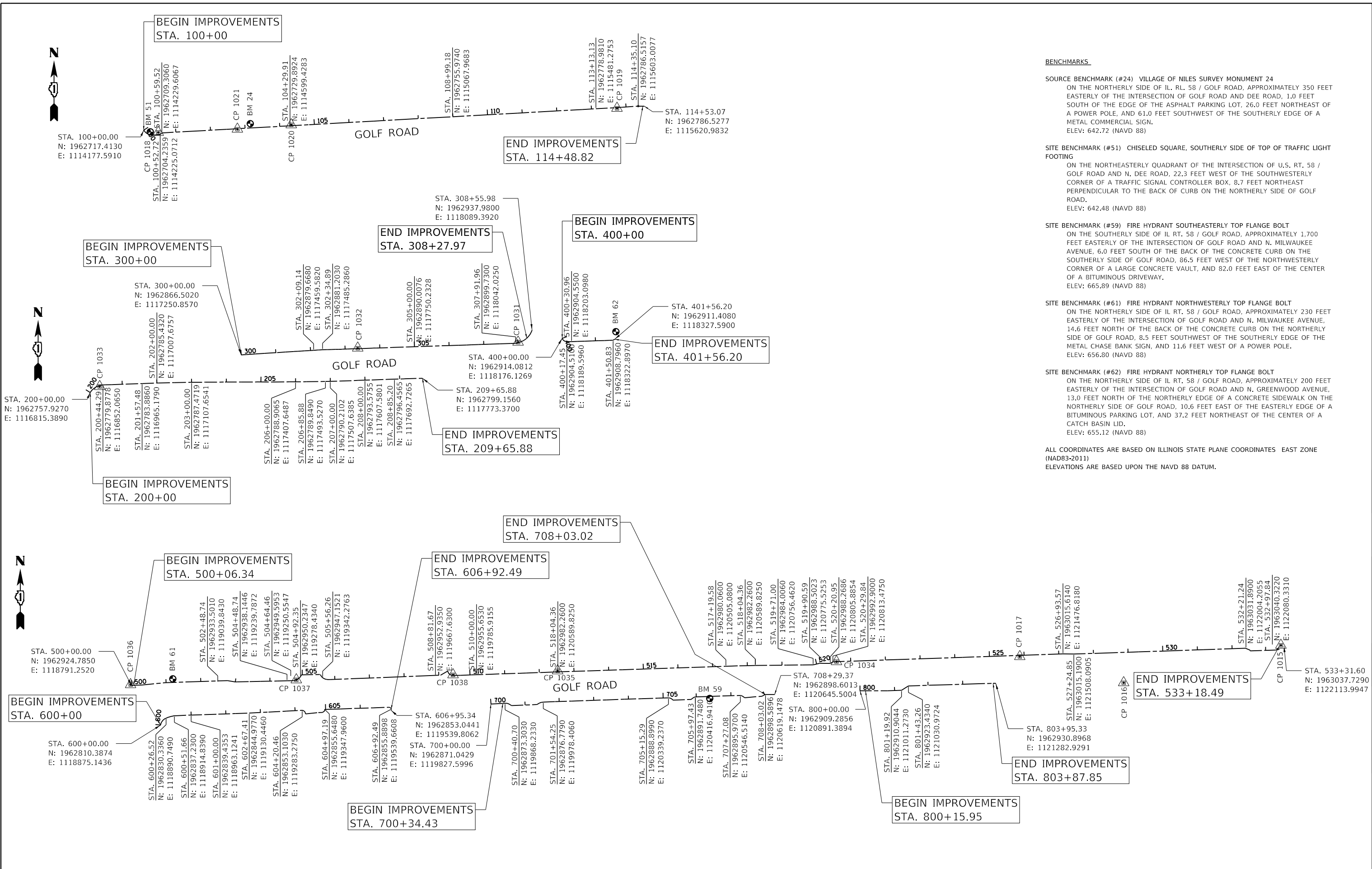
USER NAME = bhartma	DESIGNED -	REVISED -
	DRAWN - W/JH	REVISED -
PLOT SCALE = 2,0000' / in.	CHECKED - BDH	REVISED -
PLOT DATE = 11/15/2023	DATE -	REVISED -

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

SCALE:		SHEET	OF	SHEETS	STA.	TO	STA.
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**SCHEDULE OF QUANTITIES**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	18-00131-00-SW	COOK	145	11
CONTRACT NO.			61174	
ILLINOIS		FED. AID PROJECT		



**BENCHMARKS**

**SOURCE BENCHMARK (#24) VILLAGE OF NILES SURVEY MONUMENT 24**  
ON THE NORTHERLY SIDE OF IL. RL. 58 / GOLF ROAD, APPROXIMATELY 350 FEET EASTERLY OF THE INTERSECTION OF GOLF ROAD AND DEE ROAD, 1.0 FEET SOUTH OF THE EDGE OF THE ASPHALT PARKING LOT, 26.0 FEET NORTHEAST OF A POWER POLE, AND 61.0 FEET SOUTHWEST OF THE SOUTHERLY EDGE OF A METAL COMMERCIAL SIGN.  
ELEV: 642.72 (NAVD 88)

**SITE BENCHMARK (#51) CHISELED SQUARE, SOUTHERLY SIDE OF TOP OF TRAFFIC LIGHT FOOTING**  
ON THE NORTHEASTERLY QUADRANT OF THE INTERSECTION OF U.S. RT. 58 / GOLF ROAD AND N. DEE ROAD, 22.3 FEET WEST OF THE SOUTHWESTERLY CORNER OF A TRAFFIC SIGNAL CONTROLLER BOX, 8.7 FEET NORTHEAST PERPENDICULAR TO THE BACK OF CURB ON THE NORTHERLY SIDE OF GOLF ROAD.  
ELEV: 642.48 (NAVD 88)

**SITE BENCHMARK (#59) FIRE HYDRANT SOUTHEASTERLY TOP FLANGE BOLT**  
ON THE SOUTHERLY SIDE OF IL RT. 58 / GOLF ROAD, APPROXIMATELY 1,700 FEET EASTERLY OF THE INTERSECTION OF GOLF ROAD AND N. MILWAUKEE AVENUE, 6.0 FEET SOUTH OF THE BACK OF THE CONCRETE CURB ON THE SOUTHERLY SIDE OF GOLF ROAD, 86.5 FEET WEST OF THE NORTHWESTERLY CORNER OF A LARGE CONCRETE VAULT, AND 82.0 FEET EAST OF THE CENTER OF A BITUMINOUS DRIVEWAY.  
ELEV: 665.89 (NAVD 88)

**SITE BENCHMARK (#61) FIRE HYDRANT NORTHWESTERLY TOP FLANGE BOLT**  
ON THE NORTHERLY SIDE OF IL RT. 58 / GOLF ROAD, APPROXIMATELY 230 FEET EASTERLY OF THE INTERSECTION OF GOLF ROAD AND N. MILWAUKEE AVENUE, 14.6 FEET NORTH OF THE BACK OF THE CONCRETE CURB ON THE NORTHERLY SIDE OF GOLF ROAD, 8.5 FEET SOUTHWEST OF THE SOUTHERLY EDGE OF THE METAL CHASE BANK SIGN, AND 11.6 FEET WEST OF A POWER POLE.  
ELEV: 656.80 (NAVD 88)

**SITE BENCHMARK (#62) FIRE HYDRANT NORTHERLY TOP FLANGE BOLT**  
ON THE NORTHERLY SIDE OF IL RT. 58 / GOLF ROAD, APPROXIMATELY 200 FEET EASTERLY OF THE INTERSECTION OF GOLF ROAD AND N. GREENWOOD AVENUE, 13.0 FEET NORTH OF THE NORTHERLY EDGE OF A CONCRETE SIDEWALK ON THE NORTHERLY SIDE OF GOLF ROAD, 10.6 FEET EAST OF THE EASTERLY EDGE OF A BITUMINOUS PARKING LOT, AND 37.2 FEET NORTHEAST OF THE CENTER OF A CATCH BASIN LID.  
ELEV: 655.12 (NAVD 88)

ALL COORDINATES ARE BASED ON ILLINOIS STATE PLANE COORDINATES EAST ZONE (NAD83-2011)  
ELEVATIONS ARE BASED UPON THE NAVD 88 DATUM.

HRG PROJECT NO: 200452  
HRG PROJ CONTACT:  
FILE NAME: 200452-SHT-ATB-50.dgn  
PEN TABLE: penTable.tbl



USER NAME = bhartma	DESIGNED -	REVISED -
PLOT SCALE = 250.0000' / in.	DRAWN - WJH	REVISED -
PLOT DATE = 11/15/2023	CHECKED - BDH	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>ALIGNMENT TIES AND BENCHMARKS</b>			
<b>GOLF ROAD</b>			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

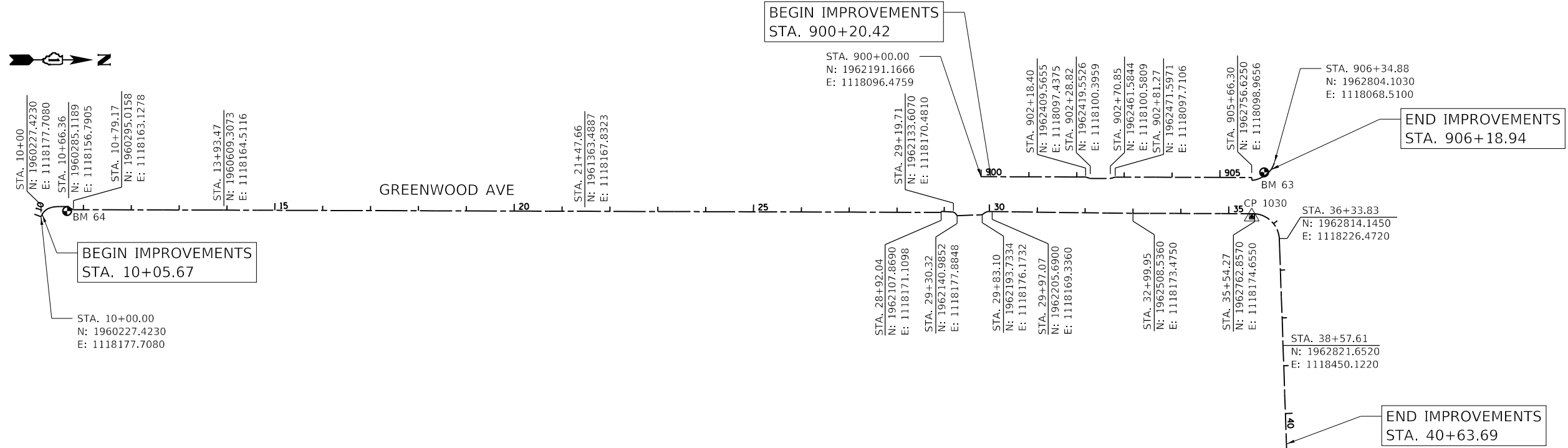
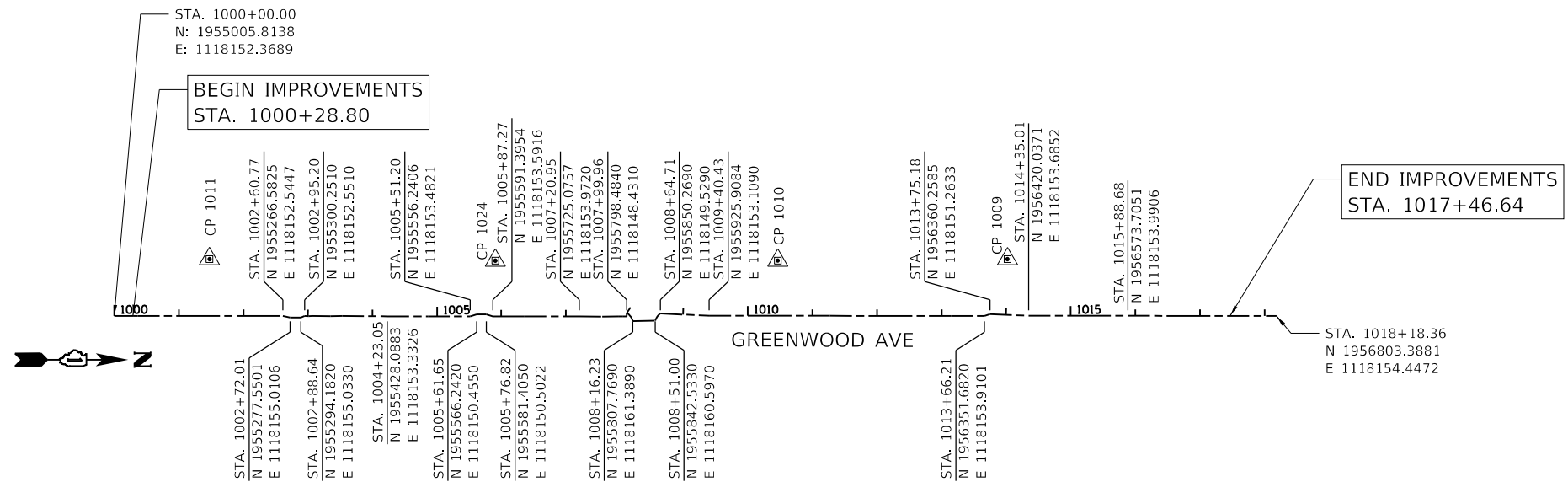
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	18-00131-00-SW	COOK	145	12
CONTRACT NO. 61174			ILLINOIS FED. AID PROJECT	

**BENCHMARKS**

SITE BENCHMARK (#63) CHISELED CROSS, NORTHERLY SIDE OF TOP OF TRAFFIC LIGHT FOOTING  
ON THE SOUTHWESTERLY QUADRANT OF THE INTERSECTION OF IL RT. 58 / GOLF ROAD AND N. GREENWOOD AVENUE, 5.5 FEET EAST OF THE EASTERLY CORNER OF A TRAFFIC SIGNAL CONTROLLER BOX, 22.5 FEET NORTHWEST OF THE CENTER OF A SANITARY MANHOLE LID, AND 11.5 FEET SOUTHEAST OF THE CENTER OF A COMED ELECTRIC HANDHOLE LID.  
ELEV: 652.47 (NAVD 88)

ALL COORDINATES ARE BASED ON ILLINOIS STATE PLANE COORDINATES EAST ZONE (NAD83-2011)  
ELEVATIONS ARE BASED UPON THE NAVD 88 DATUM.

PROP. CURVE GREENWOOD3 49 PI STA. = 1008+08.43 Δ = 39° 30' 16" (RT) D = 242° 56' 03" R = 23.58' T = 8.47' L = 16.26' E = 1.47' e = T.R. = S.E. RUN = P.C. STA = 1007+99.96 P.T. STA = 1008+16.23	PROP. CURVE GREENWOOD3 52 PI STA. = 1008+58.07 Δ = 34° 24' 30" (RT) D = 250° 59' 48" R = 22.83' T = 7.07' L = 13.71' E = 1.07' e = T.R. = S.E. RUN = P.C. STA = 1008+51.00 P.T. STA = 1008+64.71
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PROP. CURVE GREENWOOD1\_1  
PI STA. = 10+16.47  
Δ = 56° 49' 41" (RT)  
D = 188° 15' 33"  
R = 30.43'  
T = 16.47'  
L = 30.19'  
E = 4.17'  
e =  
T.R. =  
S.E. RUN =  
P.C. STA = 10+00.00  
P.T. STA = 10+30.19

PROP. CURVE GREENWOOD1\_2  
PI STA. = 10+39.52  
Δ = 16° 36' 06" (RT)  
D = 89° 35' 09"  
R = 63.96'  
T = 9.33'  
L = 18.53'  
E = 0.68'  
e =  
T.R. =  
S.E. RUN =  
P.C. STA = 10+30.19  
P.T. STA = 10+48.72

PROP. CURVE GREENWOOD1\_27  
PI STA. = 29+25.18  
Δ = 34° 21' 05" (RT)  
D = 323° 44' 36"  
R = 17.70'  
T = 5.47'  
L = 10.61'  
E = 0.83'  
e =  
T.R. =  
S.E. RUN =  
P.C. STA = 29+19.71  
P.T. STA = 29+30.32

PROP. CURVE GREENWOOD1\_30  
PI STA. = 29+90.29  
Δ = 33° 41' 04" (RT)  
D = 241° 03' 08"  
R = 23.77'  
T = 7.20'  
L = 13.97'  
E = 1.07'  
e =  
T.R. =  
S.E. RUN =  
P.C. STA = 29+83.10  
P.T. STA = 29+97.07

PROP. CURVE GREENWOOD1\_57  
PI STA. = 36+02.65  
Δ = 82° 12' 28" (RT)  
D = 103° 19' 50"  
R = 55.45'  
T = 48.38'  
L = 79.56'  
E = 18.14'  
e =  
T.R. =  
S.E. RUN =  
P.C. STA = 35+54.27  
P.T. STA = 36+33.83

PROP. CURVE GREENWOOD2\_17  
PI STA. = 905+80.25  
Δ = 16° 31' 00" (LT)  
D = 103° 12' 24"  
R = 55.52'  
T = 8.06'  
L = 16.00'  
E = 0.58'  
e =  
T.R. =  
S.E. RUN =  
P.C. STA = 905+78.20  
P.T. STA = 905+88.20

PROP. CURVE GREENWOOD2\_18  
PI STA. = 906+03.97  
Δ = 31° 21' 43" (LT)  
D = 102° 00' 59"  
R = 56.16'  
T = 15.77'  
L = 30.74'  
E = 2.17'  
e =  
T.R. =  
S.E. RUN =  
P.C. STA = 905+88.20  
P.T. STA = 906+18.94

PROP. CURVE GREENWOOD2\_21  
PI STA. = 906+25.40  
Δ = 5° 47' 47" (LT)  
D = 77° 19' 58"  
R = 74.09'  
T = 3.75'  
L = 7.50'  
E = 0.09'  
e =  
T.R. =  
S.E. RUN =  
P.C. STA = 906+21.65  
P.T. STA = 906+29.15

HRG PROJECT NO: 200452  
HRG PROJ CONTACT:  
FILE NAME: 200452-SHT-17B-02.dgn  
PEN TABLE: 10/10/2023



USER NAME = bhartma	DESIGNED -	REVISED -
PLOT SCALE = 250.0000' / in.	DRAWN - W/JH	REVISED -
PLOT DATE = 11/15/2023	CHECKED - BDH	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>ALIGNMENT TIES AND BENCHMARKS</b>	
SCALE:	SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	18-00131-00-SW	COOK	145	13
CONTRACT NO. 6174				
ILLINOIS FED. AID PROJECT				

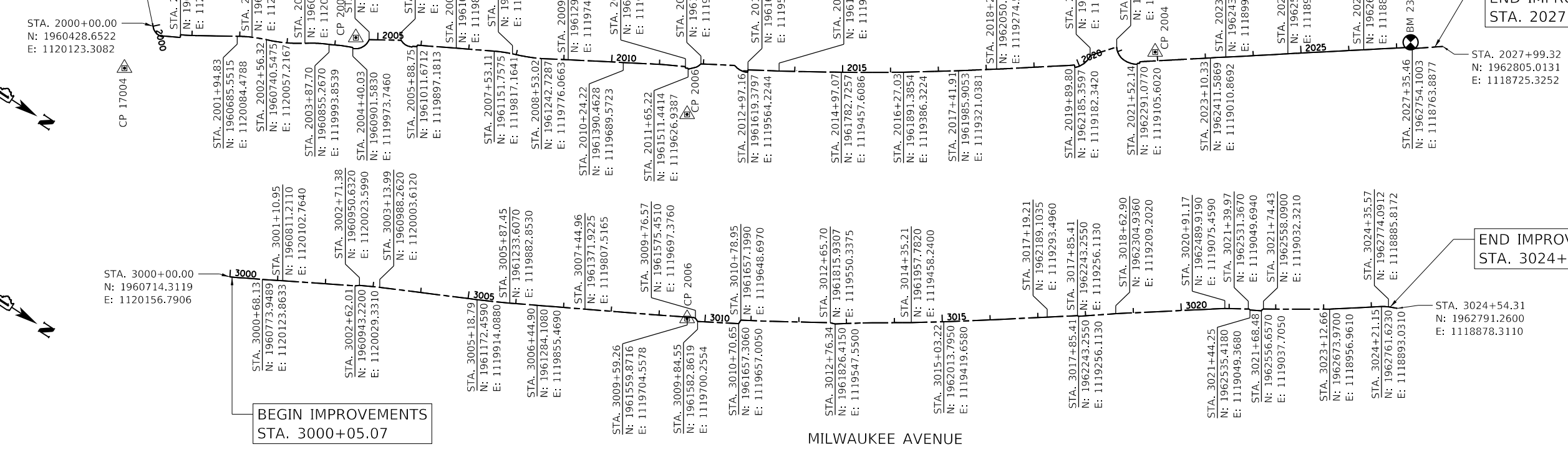
MILWAUKEE AVENUE

BEGIN IMPROVEMENTS  
STA. 2000+05.43

END IMPROVEMENTS  
STA. 2027+82.64

BEGIN IMPROVEMENTS  
STA. 3000+05.07

END IMPROVEMENTS  
STA. 3024+35.57



PROP. CURVE MILWAUKEEAVE\_57  
PI STA. = 2002+25.69  
 $\Delta = 11^\circ 59' 03''$  (RT)  
D = 19° 29' 18"  
R = 294.00'  
T = 30.86'  
L = 61.49'  
E = 1.62'  
e = \_\_\_\_\_  
T.R. = \_\_\_\_\_  
S.E. RUN = \_\_\_\_\_  
P.C. STA = 2001+94.83  
P.T. STA = 2002+56.32

PROP. CURVE MILWAUKEEAVE\_58  
PI STA. = 2002+76.61  
 $\Delta = 7^\circ 32' 22''$  (LT)  
D = 18° 36' 09"  
R = 308.00'  
T = 20.29'  
L = 40.53'  
E = 0.67'  
e = \_\_\_\_\_  
T.R. = \_\_\_\_\_  
S.E. RUN = \_\_\_\_\_  
P.C. STA = 2002+56.32  
P.T. STA = 2002+96.85

PROP. CURVE MILWAUKEEAVE\_59  
PI STA. = 2003+17.14  
 $\Delta = 7^\circ 32' 22''$  (LT)  
D = 18° 36' 09"  
R = 308.00'  
T = 20.29'  
L = 40.53'  
E = 0.67'  
e = \_\_\_\_\_  
T.R. = \_\_\_\_\_  
S.E. RUN = \_\_\_\_\_  
P.C. STA = 2002+96.85  
P.T. STA = 2003+37.38

PROP. CURVE MILWAUKEEAVE\_62  
PI STA. = 2003+54.66  
 $\Delta = 2^\circ 31' 10''$  (RT)  
D = 16° 47' 23"  
R = 341.25'  
T = 7.50'  
L = 15.01'  
E = 0.08'  
e = \_\_\_\_\_  
T.R. = \_\_\_\_\_  
S.E. RUN = \_\_\_\_\_  
P.C. STA = 2003+47.16  
P.T. STA = 2003+62.17

PROP. CURVE MILWAUKEEAVE\_63  
PI STA. = 2003+74.94  
 $\Delta = 5^\circ 00' 39''$  (LT)  
D = 19° 37' 19"  
R = 292.00'  
T = 12.78'  
L = 25.54'  
E = 0.28'  
e = \_\_\_\_\_  
T.R. = \_\_\_\_\_  
S.E. RUN = \_\_\_\_\_  
P.C. STA = 2003+62.17  
P.T. STA = 2003+87.70

PROP. CURVE MILWAUKEEAVE\_64  
PI STA. = 2003+99.97  
 $\Delta = 4^\circ 36' 26''$  (LT)  
D = 18° 47' 08"  
R = 305.00'  
T = 12.27'  
L = 24.52'  
E = 0.25'  
e = \_\_\_\_\_  
T.R. = \_\_\_\_\_  
S.E. RUN = \_\_\_\_\_  
P.C. STA = 2003+87.70  
P.T. STA = 2004+12.23

PROP. CURVE MILWAUKEEAVE\_71  
PI STA. = 2004+47.69  
 $\Delta = 28^\circ 18' 19''$  (LT)  
D = 188° 45' 12"  
R = 30.35'  
T = 12.27'  
L = 15.00'  
E = 0.95'  
e = \_\_\_\_\_  
T.R. = \_\_\_\_\_  
S.E. RUN = \_\_\_\_\_  
P.C. STA = 2004+40.03  
P.T. STA = 2004+55.03

PROP. CURVE MILWAUKEEAVE\_72  
PI STA. = 2004+69.31  
 $\Delta = 49^\circ 40' 30''$  (LT)  
D = 185° 41' 42"  
R = 30.85'  
T = 14.28'  
L = 26.75'  
E = 3.14'  
e = \_\_\_\_\_  
T.R. = \_\_\_\_\_  
S.E. RUN = \_\_\_\_\_  
P.C. STA = 2004+55.03  
P.T. STA = 2004+81.78

PROP. CURVE MILWAUKEEAVE\_75  
PI STA. = 2005+58.94  
 $\Delta = 38^\circ 18' 15''$  (LT)  
D = 196° 55' 34"  
R = 29.10'  
T = 10.10'  
L = 19.45'  
E = 1.70'  
e = \_\_\_\_\_  
T.R. = \_\_\_\_\_  
S.E. RUN = \_\_\_\_\_  
P.C. STA = 2005+48.83  
P.T. STA = 2005+68.29

PROP. CURVE MILWAUKEEAVE\_90  
PI STA. = 2007+72.41  
 $\Delta = 7^\circ 33' 47''$  (RT)  
D = 19° 37' 19"  
R = 292.00'  
T = 19.30'  
L = 38.54'  
E = 0.64'  
e = \_\_\_\_\_  
T.R. = \_\_\_\_\_  
S.E. RUN = \_\_\_\_\_  
P.C. STA = 2007+53.11  
P.T. STA = 2007+91.65

PROP. CURVE MILWAUKEEAVE\_93  
PI STA. = 2008+31.08  
 $\Delta = 17^\circ 31' 40''$   
R = 326.89'  
T = 22.01'  
L = 43.96'  
E = 0.74'  
e = \_\_\_\_\_  
T.R. = \_\_\_\_\_  
S.E. RUN = \_\_\_\_\_  
P.C. STA = 2008+09.07  
P.T. STA = 2008+53.02

PROP. CURVE MILWAUKEEAV\_105  
PI STA. = 3021+42.37  
 $\Delta = 63^\circ 55' 32''$  (RT)  
D = 1492° 36' 39"  
R = 3.84'  
T = 2.40'  
L = 4.28'  
E = 0.69'  
e = \_\_\_\_\_  
T.R. = \_\_\_\_\_  
S.E. RUN = \_\_\_\_\_  
P.C. STA = 3021+39.97  
P.T. STA = 3021+44.25

PROP. CURVE MILWAUKEEAV\_108  
PI STA. = 3021+71.90  
 $\Delta = 70^\circ 53' 48''$  (RT)  
D = 1192° 51' 35"  
R = 4.80'  
T = 3.42'  
L = 5.94'  
E = 1.09'  
e = \_\_\_\_\_  
T.R. = \_\_\_\_\_  
S.E. RUN = \_\_\_\_\_  
P.C. STA = 3021+68.48  
P.T. STA = 3021+74.43

PROP. CURVE MILWAUKEEAV\_122  
PI STA. = 2011+88.32  
 $\Delta = 17^\circ 35' 31''$  (LT)  
D = 139° 46' 54"  
R = 40.99'  
T = 6.34'  
L = 12.59'  
E = 0.49'  
e = \_\_\_\_\_  
T.R. = \_\_\_\_\_  
S.E. RUN = \_\_\_\_\_  
P.C. STA = 2011+81.97  
P.T. STA = 2011+94.56

PROP. CURVE MILWAUKEEAV\_125  
PI STA. = 2012+82.35  
 $\Delta = 50^\circ 00' 25''$  (LT)  
D = 157° 15' 56"  
R = 36.43'  
T = 16.99'  
L = 31.80'  
E = 3.77'  
e = \_\_\_\_\_  
T.R. = \_\_\_\_\_  
S.E. RUN = \_\_\_\_\_  
P.C. STA = 2012+65.36  
P.T. STA = 2012+97.16

PROP. CURVE MILWAUKEEAV\_131  
PI STA. = 3024+28.38  
 $\Delta = 10^\circ 27' 27''$  (RT)  
D = 72° 29' 50"  
R = 79.03'  
T = 7.23'  
L = 14.42'  
E = 0.33'  
e = \_\_\_\_\_  
T.R. = \_\_\_\_\_  
S.E. RUN = \_\_\_\_\_  
P.C. STA = 3024+21.15  
P.T. STA = 3024+35.57

PROP. CURVE MILWAUKEEAV\_156  
PI STA. = 2017+81.88  
 $\Delta = 0^\circ 09' 20''$  (RT)  
D = 0° 18' 42"  
R = 18,383.92'  
T = 24.97'  
L = 49.95'  
E = 0.02'  
e = \_\_\_\_\_  
T.R. = \_\_\_\_\_  
S.E. RUN = \_\_\_\_\_  
P.C. STA = 2017+56.91  
P.T. STA = 2018+06.85

PROP. CURVE MILWAUKEEAV\_159  
PI STA. = 2018+46.83  
 $\Delta = 0^\circ 53' 04''$  (LT)  
D = 1° 46' 14"  
R = 3,235.84'  
T = 24.97'  
L = 49.95'  
E = 0.10'  
e = \_\_\_\_\_  
T.R. = \_\_\_\_\_  
S.E. RUN = \_\_\_\_\_  
P.C. STA = 2018+21.85  
P.T. STA = 2018+71.80

PROP. CURVE MILWAUKEEAV\_162  
PI STA. = 2019+11.80  
 $\Delta = 0^\circ 00' 15''$   
D = 0° 00' 15"  
R = 1,383,635.66'  
T = 25.00'  
L = 50.00'  
E = 0.00'  
e = \_\_\_\_\_  
T.R. = \_\_\_\_\_  
S.E. RUN = \_\_\_\_\_  
P.C. STA = 2018+86.80  
P.T. STA = 2019+36.80

PROP. CURVE MILWAUKEEAV\_190  
PI STA. = 2020+15.58  
 $\Delta = 129^\circ 46' 07''$   
R = 44.15'  
T = 7.74'  
L = 15.32'  
E = 0.67'  
e = \_\_\_\_\_  
T.R. = \_\_\_\_\_  
S.E. RUN = \_\_\_\_\_  
P.C. STA = 2020+07.85  
P.T. STA = 2020+23.16

PROP. CURVE MILWAUKEEAV\_191  
PI STA. = 2020+27.60  
 $\Delta = 18^\circ 46' 08''$  (LT)  
D = 213° 27' 56"  
R = 26.84'  
T = 4.44'  
L = 8.79'  
E = 0.36'  
e = \_\_\_\_\_  
T.R. = \_\_\_\_\_  
S.E. RUN = \_\_\_\_\_  
P.C. STA = 2020+23.16  
P.T. STA = 2020+31.96

PROP. CURVE MILWAUKEEAV\_194  
PI STA. = 2021+08.89  
 $\Delta = 55^\circ 44' 39''$  (LT)  
D = 163° 09' 37"  
R = 35.12'  
T = 18.57'  
L = 34.17'  
E = 4.61'  
e = \_\_\_\_\_  
T.R. = \_\_\_\_\_  
S.E. RUN = \_\_\_\_\_  
P.C. STA = 2020+90.32  
P.T. STA = 2021+24.49

PROP. CURVE MILWAUKEEAV\_195  
PI STA. = 2021+38.67  
 $\Delta = 31^\circ 19' 02''$  (LT)  
D = 113° 14' 30"  
R = 50.60'  
T = 14.18'  
L = 27.66'  
E = 1.95'  
e = \_\_\_\_\_  
T.R. = \_\_\_\_\_  
S.E. RUN = \_\_\_\_\_  
P.C. STA = 2021+24.49  
P.T. STA = 2021+52.14

PROP. CURVE MILWAUKEEAV\_202  
PI STA. = 2021+87.59  
 $\Delta = 0^\circ 42' 37''$  (RT)  
D = 1° 25' 15"  
R = 4,032.66'  
T = 25.00'  
L = 50.00'  
E = 0.08'  
e = \_\_\_\_\_  
T.R. = \_\_\_\_\_  
S.E. RUN = \_\_\_\_\_  
P.C. STA = 2021+62.59  
P.T. STA = 2022+12.59

PROP. CURVE MILWAUKEEAV\_205  
PI STA. = 2022+52.59  
 $\Delta = 0^\circ 01' 39''$  (LT)  
D = 0° 03' 18"  
R = 104,277.75'  
T = 25.00'  
L = 50.00'  
E = 0.00'  
e = \_\_\_\_\_  
T.R. = \_\_\_\_\_  
S.E. RUN = \_\_\_\_\_  
P.C. STA = 2022+27.59  
P.T. STA = 2022+77.59

BENCHMARK

SOURCE BENCHMARK (#23) VILLAGE OF NILES SURVEY MONUMENT 23 ON THE WESTERLY SIDE OF MILWAUKEE AVENUE, APPROXIMATELY 160 FEET SOUTHEASTERLY OF THE CENTERLINE OF IL. RL. 58 / GOLF ROAD AND 70 FEET SOUTHWESTERLY OF THE CENTERLINE OF MILWAUKEE AVENUE. ELEV: 655.27 (NAVD 88)

ALL COORDINATES ARE BASED ON ILLINOIS STATE PLANE COORDINATES EAST ZONE (NAD83-2011) ELEVATIONS ARE BASED UPON THE NAVD 88 DATUM.

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ALIGNMENT TIES AND BENCHMARKS  
MILWAUKEE AVENUE

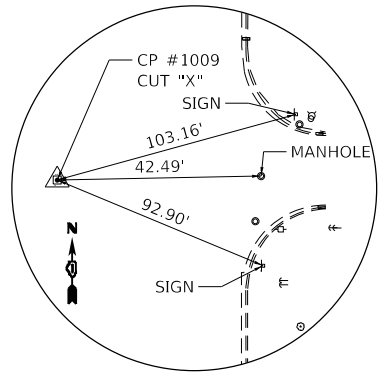
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	18-00131-00-SW	COOK	145	14
CONTRACT NO. 61714				
ILLINOIS		FED. AID PROJECT		

SCALE: SHEET OF SHEETS STA. TO STA.

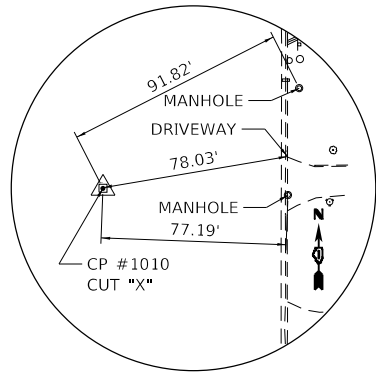
HRG PROJECT NO. 200452  
 HRG PROJ. CONTACT:  
 FILE NAME: 200452-SHT-17B-03.dgn  
 PEN TABLE: 10/10/06/04/01

HRGreen.com  
Micro Professional Design Firm  
#184-001322

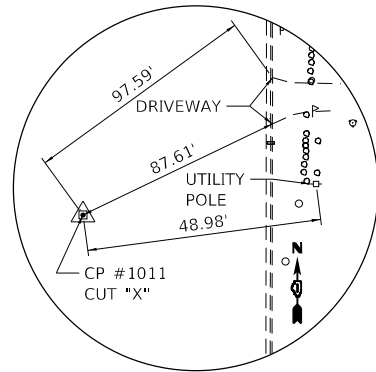
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DRAWN	CHECKED	REVISOR
= WJH	= BDH	-
PLOT SCALE	DATE	REVISOR
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PLOT DATE	DATE	REVISOR
= 11/15/2023	-	-



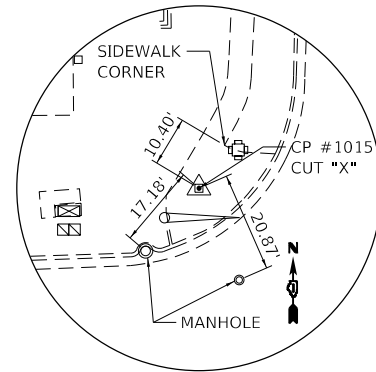
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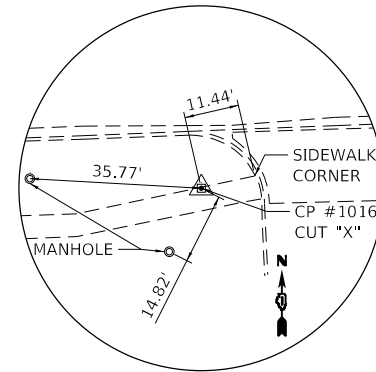
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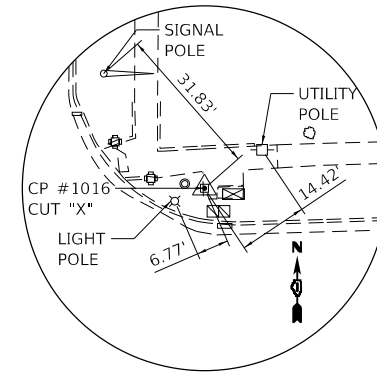
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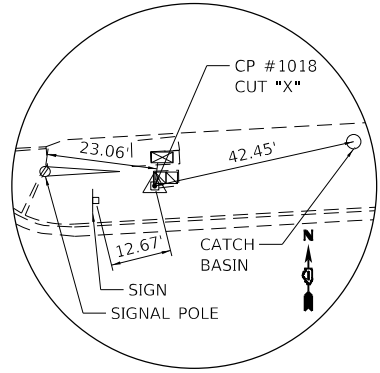
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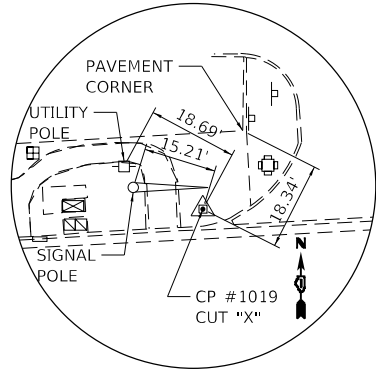
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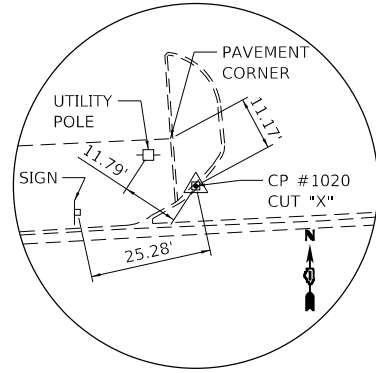
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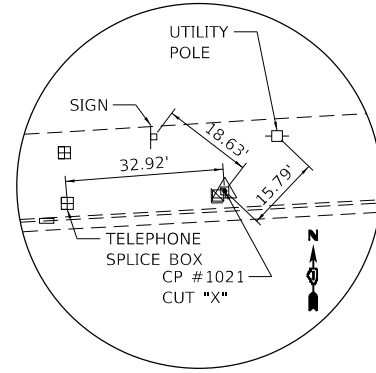
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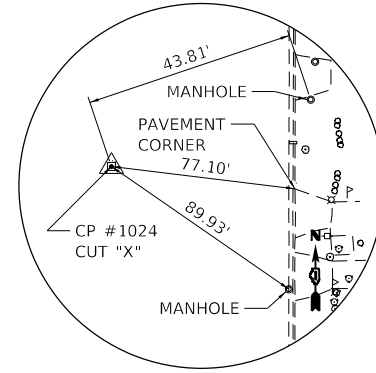
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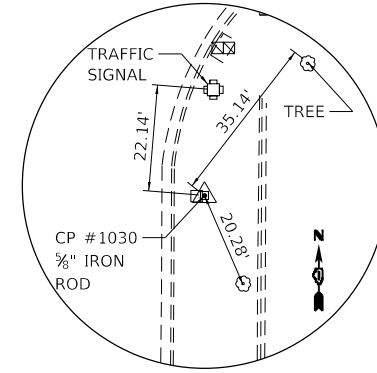
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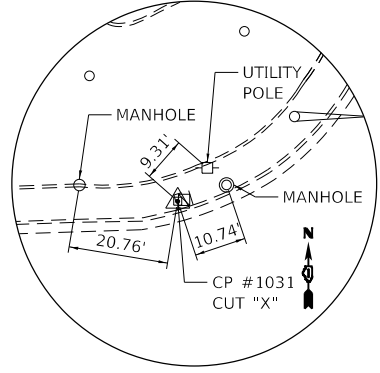
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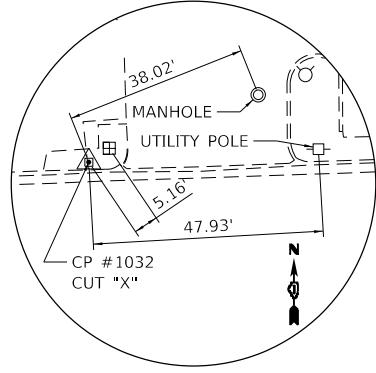
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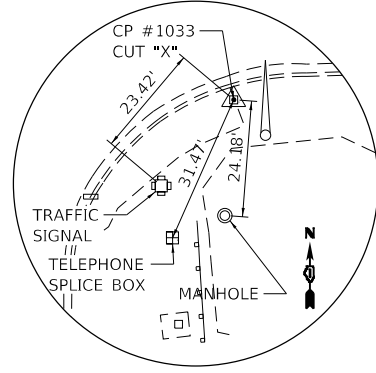
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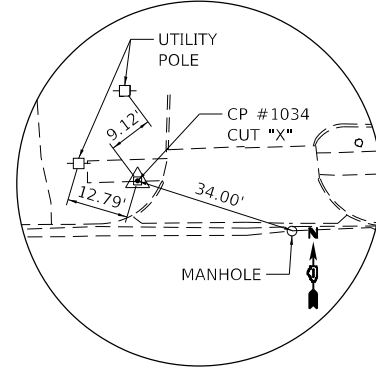
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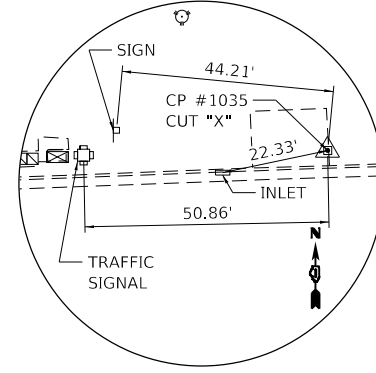
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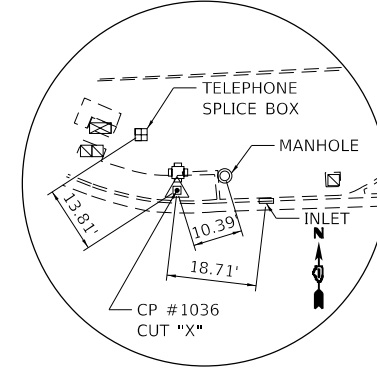
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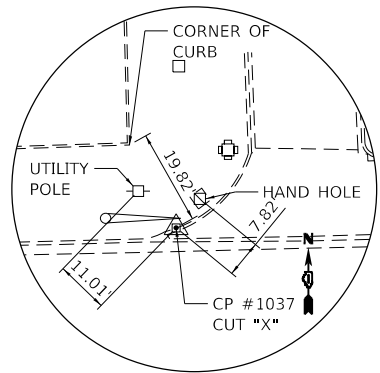
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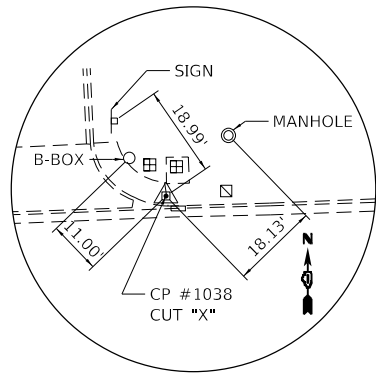
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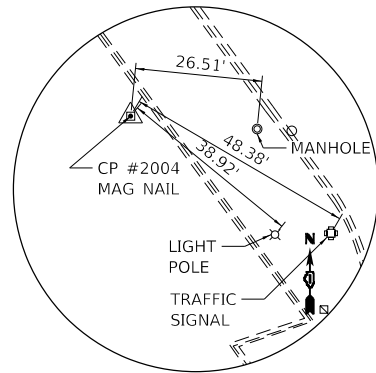
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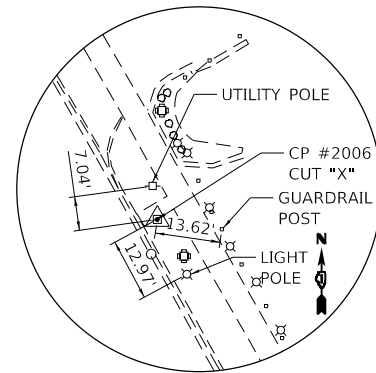
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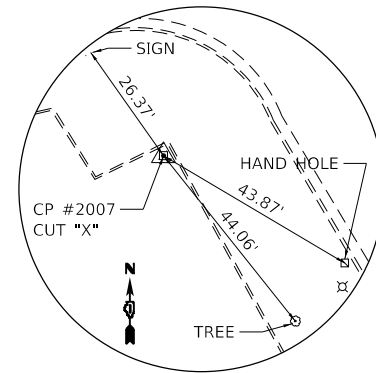
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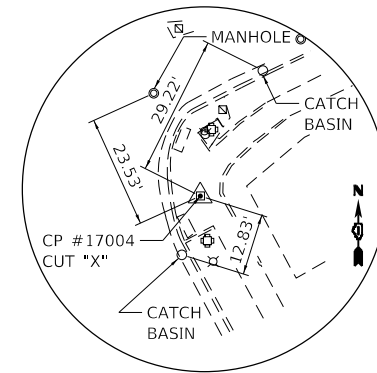
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CONTROL POINT #2006  
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CONTROL POINT #2007  
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CONTROL POINT #17004  
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HRG PROJECT NO: 200452  
HRG PROJ CONTACT:  
FILE NAME: 200452-SHT-A1B-04.dgn  
PEN TABLE: penTable.tbl



USER NAME = bhartma  
DESIGNED -  
DRAWN - W/JH  
CHECKED - BDH  
PLOT SCALE = 40.0000' / in.  
PLOT DATE = 11/15/2023

DESIGNED -  
DRAWN - W/JH  
CHECKED - BDH  
DATE -

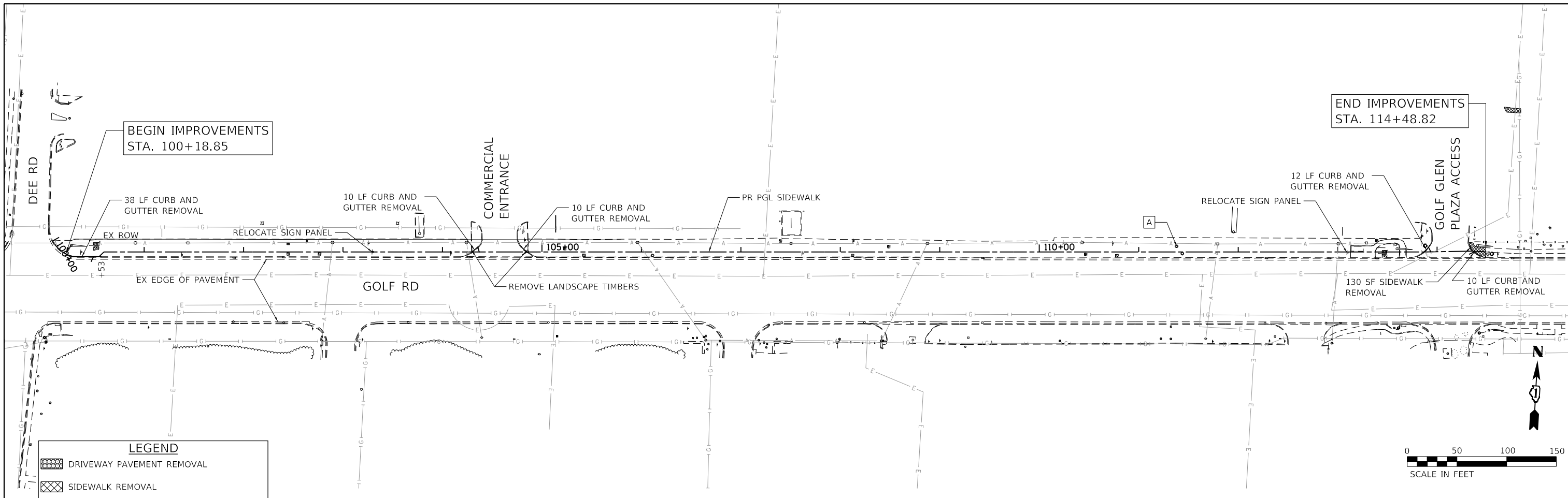
REVISED -  
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REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ALIGNMENT TIES AND BENCHMARKS  
CONTROL POINTS

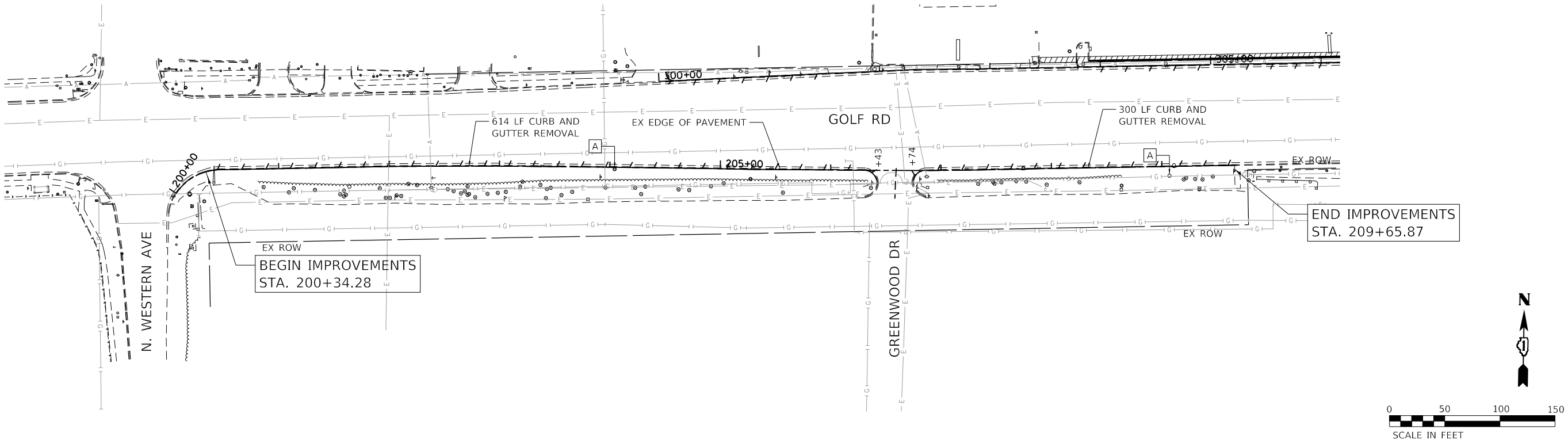
SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	18-00131-00-SW	COOK	145	15
CONTRACT NO. 61174			ILLINOIS FED. AID PROJECT	



**LEGEND**

	DRIVEWAY PAVEMENT REMOVAL
	SIDEWALK REMOVAL
	COMBINATION CURB AND GUTTER REMOVAL
	FRAME & GRATE / FRAME & LID TO BE ADJUSTED
	TREE TRUNK PROTECTION



HRG PROJECT NO. 200452  
 HRG PROJ. CONTACT:  
 FILE NAME: 200452-shr-removal-golf-01.dgn  
 PEN TABLE: 1/15/2023



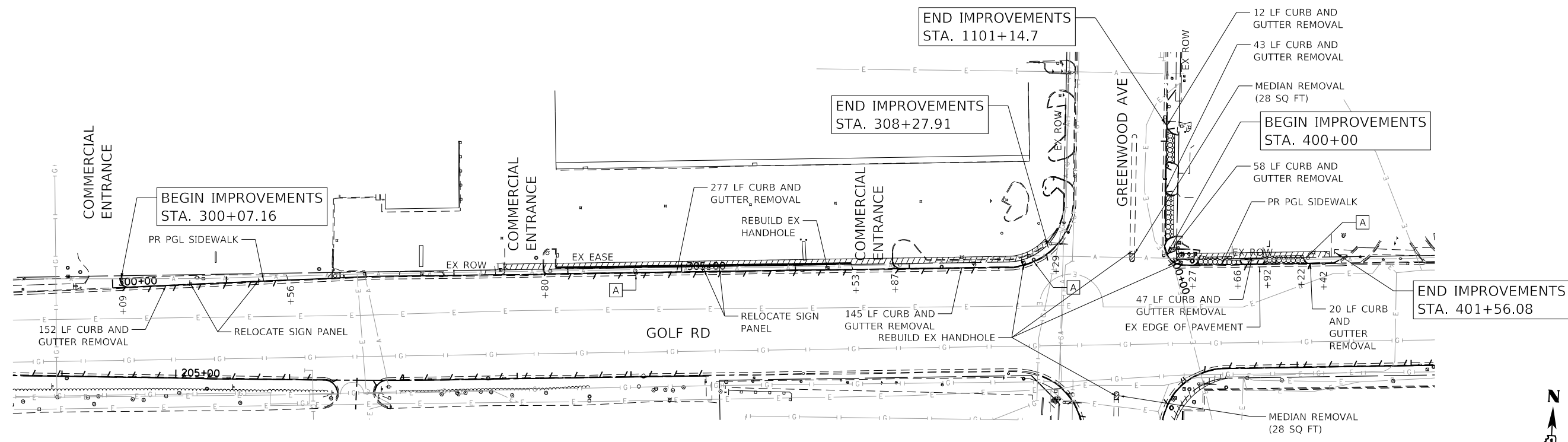
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PLOT DATE = 11/15/2023	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>REMOVAL PLAN</b>	
<b>GOLF ROAD</b>	
SCALE: 1"=50'	SHEET OF SHEETS STA. TO STA.

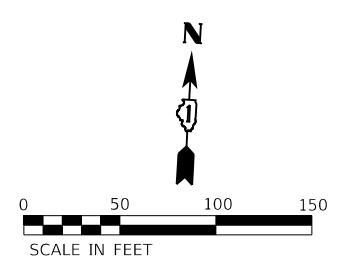
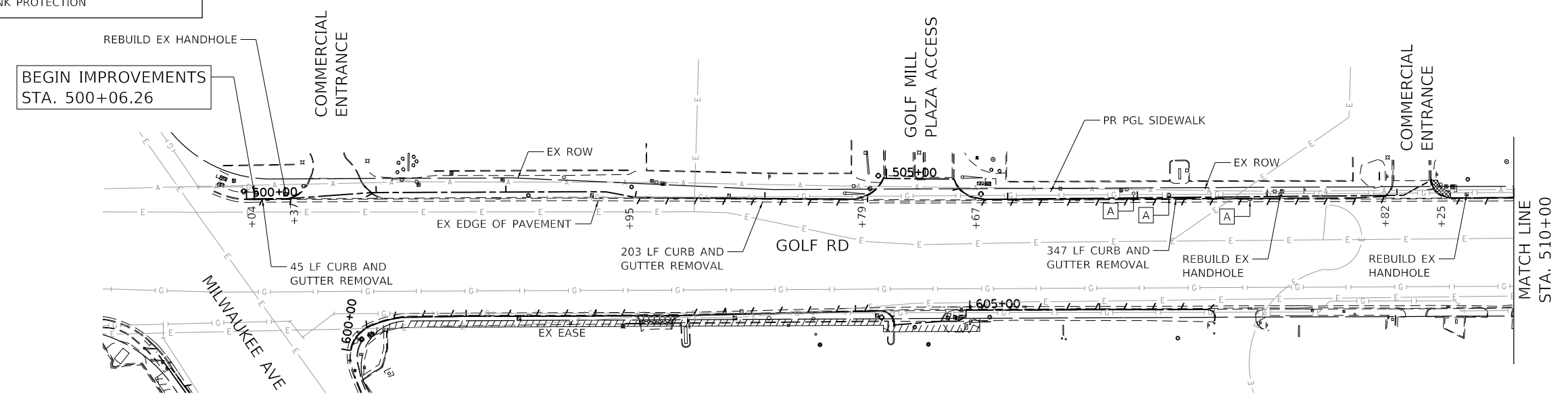
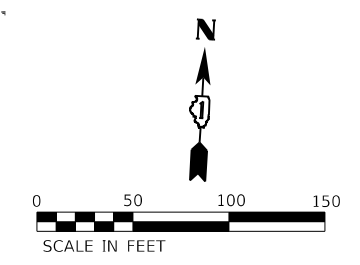
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VAR.	18-00131-00-SW	COOK	145	16
CONTRACT NO. 61174			ILLINOIS FED. AID PROJECT	





**LEGEND**

	DRIVEWAY PAVEMENT REMOVAL
	SIDEWALK REMOVAL
	COMBINATION CURB AND GUTTER REMOVAL
	FRAME & GRATE / FRAME & LID TO BE ADJUSTED
	TREE TRUNK PROTECTION



HRG PROJECT NO: 200452  
 HRG PROJ CONTACT:  
 FILE NAME: 200452-shr-removal-golf-02.dgn  
 PEN TABLE: 1/15/2023

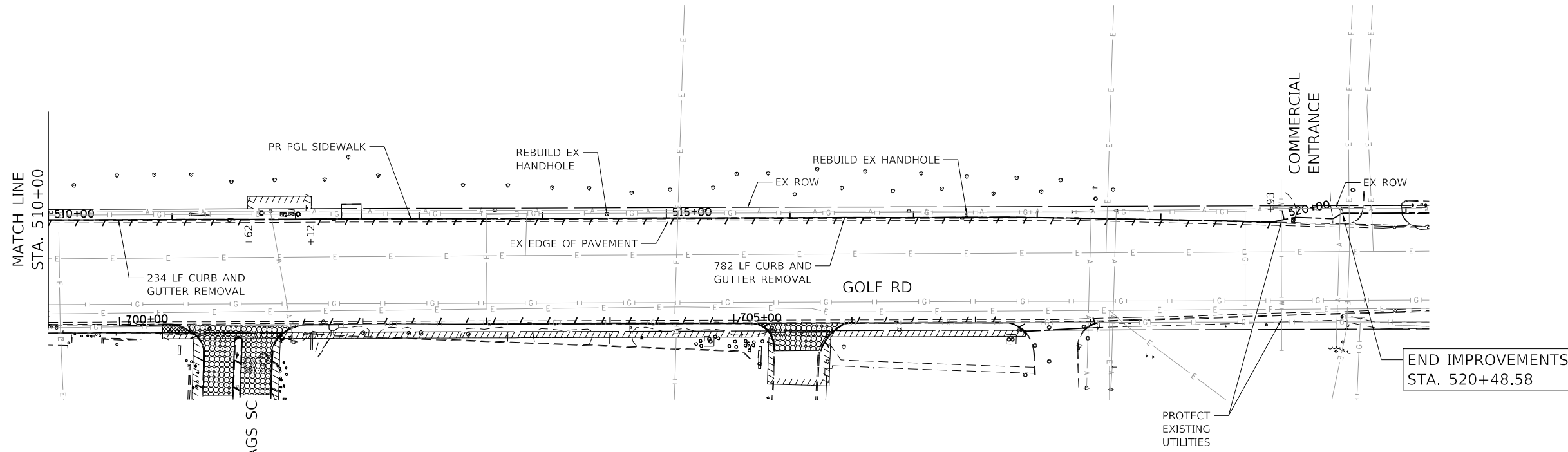


USER NAME = bhartma	DESIGNED - CW	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN - W/JH	REVISED -
PLOT DATE = 11/15/2023	CHECKED - BDH	REVISED -
	DATE -	REVISED -

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

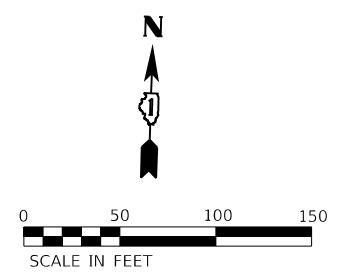
<b>REMOVAL PLAN</b> <b>GOLF ROAD</b>		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		VAR.	18-00131-00-SW	COOK	145	17
SCALE: 1"=50'	SHEET	OF	SHEETS	STA.	TO	STA.

		CONTRACT NO. 61174	
		ILLINOIS FED. AID PROJECT	

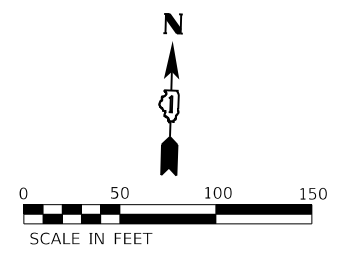
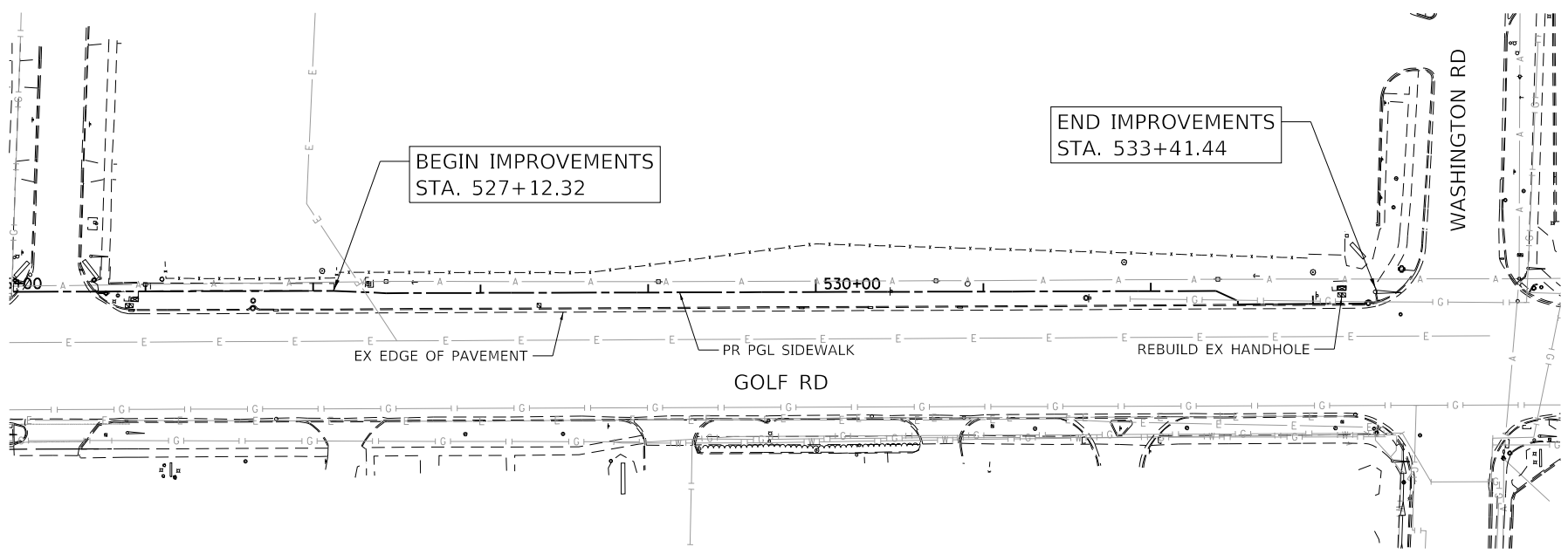


**LEGEND**

	DRIVEWAY PAVEMENT REMOVAL
	SIDEWALK REMOVAL
	COMBINATION CURB AND GUTTER REMOVAL
	FRAME & GRATE / FRAME & LID TO BE ADJUSTED
	TREE TRUNK PROTECTION



FOUR FLAGS SC



HRG PROJECT NO: 200452  
 HRG PROJ CONTACT:  
 FILE NAME: 200452-shr-removal-golf-03.dgn  
 PEN TABLE: penTable.tbl

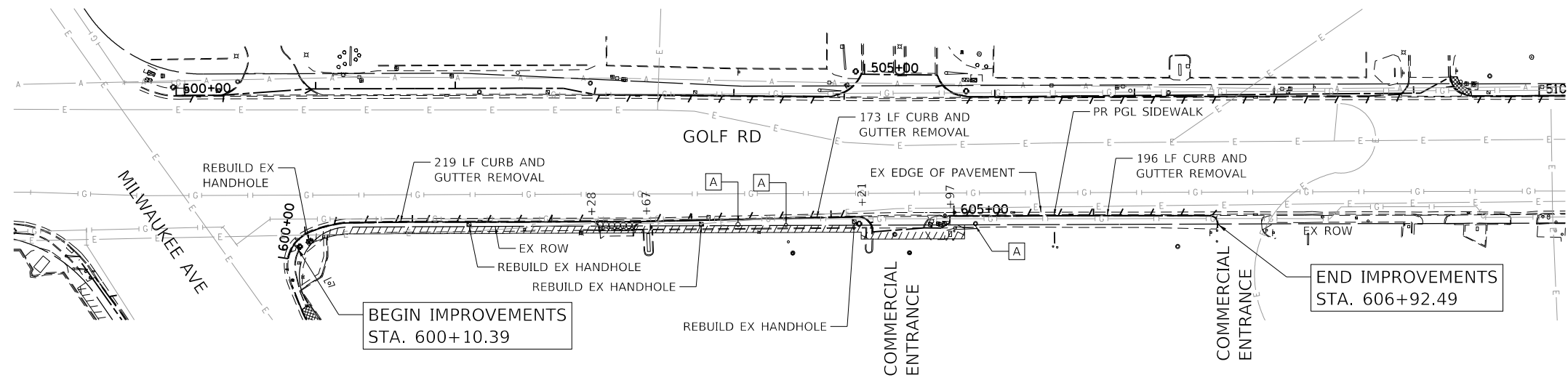


USER NAME = bhartma	DESIGNED - CW	REVISED -
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PLOT SCALE = 100.0000' / in.	CHECKED - BDH	REVISED -
PLOT DATE = 11/15/2023	DATE -	REVISED -

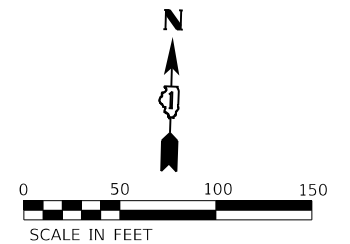
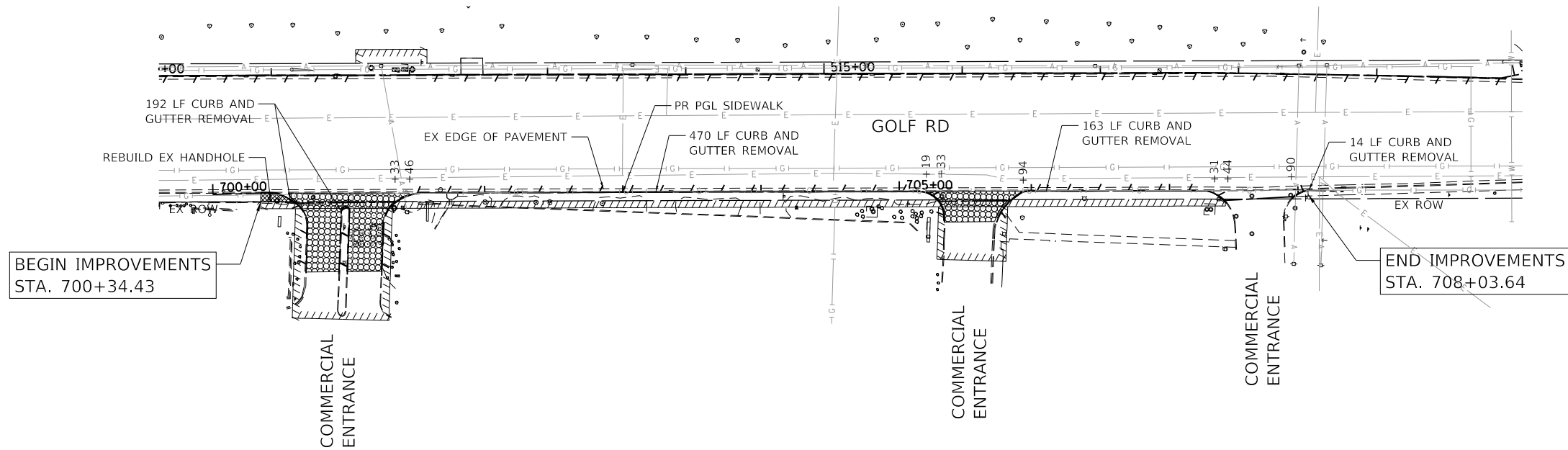
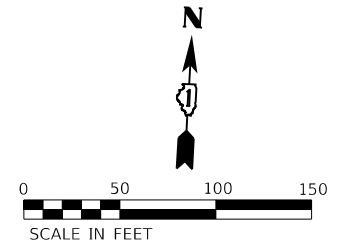
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

SCALE: 1"=50'		REMOVAL PLAN	
		GOLF ROAD	
SHEET	OF	SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	18-00131-00-SW	COOK	145	18
			CONTRACT NO. 61174	
		ILLINOIS FED. AID PROJECT		



LEGEND	
	DRIVEWAY PAVEMENT REMOVAL
	SIDEWALK REMOVAL
	COMBINATION CURB AND GUTTER REMOVAL
	FRAME & GRATE / FRAME & LID TO BE ADJUSTED
	TREE TRUNK PROTECTION



HRG PROJECT NO: 200452  
 HRG PROJ CONTACT:  
 FILE NAME: 200452-shr-removal-golf-04.dgn  
 PEN TABLE: 1/15/2023



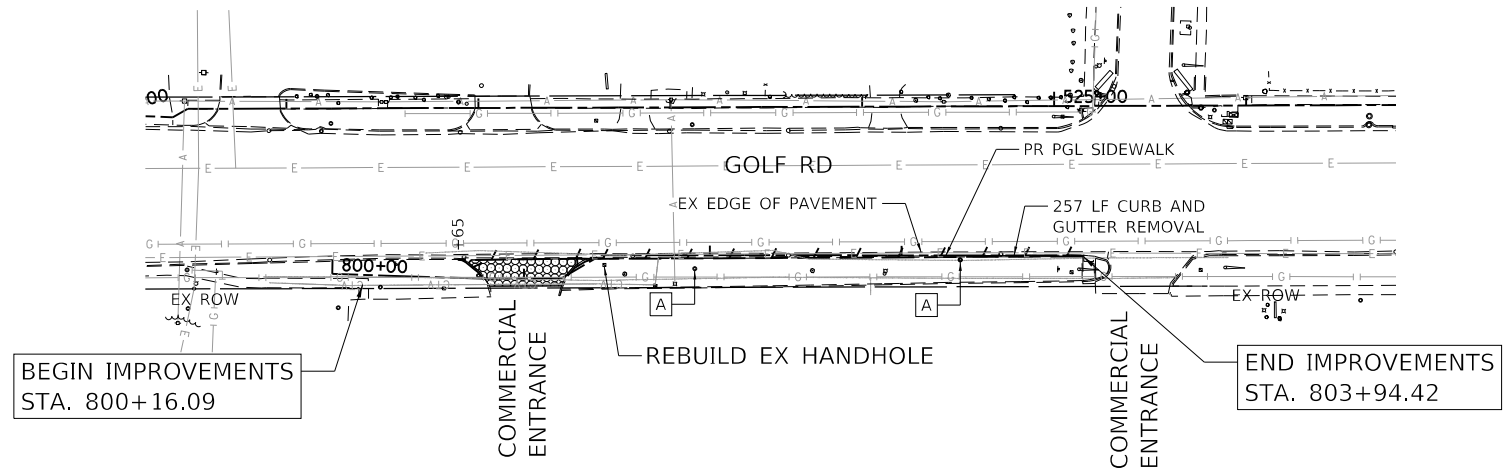
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PLOT DATE = 11/15/2023	CHECKED - BDH	REVISED -
	DATE -	REVISED -

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

**REMOVAL PLAN**  
**GOLF ROAD**

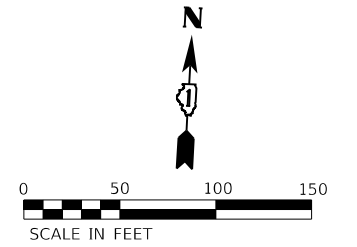
SCALE: 1"=50' SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	18-00131-00-SW	COOK	145	19
			CONTRACT NO. 61174	
ILLINOIS FED. AID PROJECT				



**LEGEND**

	DRIVEWAY PAVEMENT REMOVAL
	SIDEWALK REMOVAL
	COMBINATION CURB AND GUTTER REMOVAL
	FRAME & GRATE / FRAME & LID TO BE ADJUSTED
	TREE TRUNK PROTECTION



HRG PROJECT NO.: 200452  
 HRG PROJ. CONTACT:  
 FILE NAME: 200452-shr-removal-golf-05.dgn  
 PLOT DATE: 11/15/2023 10:41:17 AM  
 PEN TABLE: plotTable.tbl



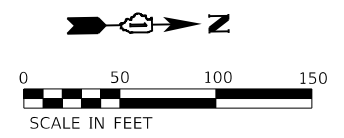
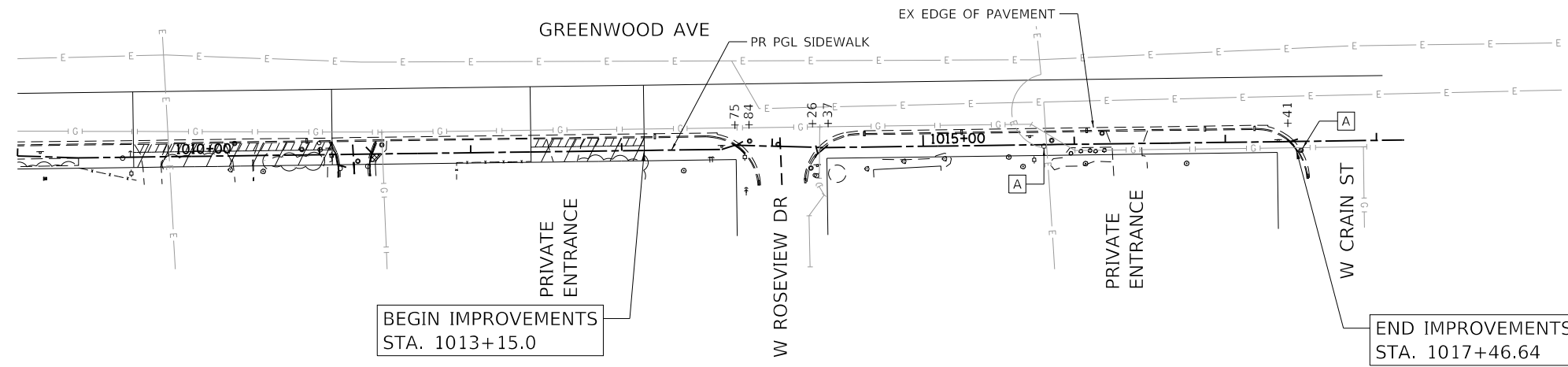
USER NAME = bhartma	DESIGNED - CW	REVISED -
	DRAWN - WJH	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED - BDH	REVISED -
PLOT DATE = 11/15/2023	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**REMOVAL PLAN  
GOLF ROAD**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	18-00131-00-SW	COOK	145	20
CONTRACT NO.			61174	
ILLINOIS FED. AID PROJECT				



LEGEND	
	DRIVEWAY PAVEMENT REMOVAL
	SIDEWALK REMOVAL
	COMBINATION CURB AND GUTTER REMOVAL
	FRAME & GRATE / FRAME & LID TO BE ADJUSTED
	TREE TRUNK PROTECTION

HRG PROJECT NO: 200452  
 HRG PROJ CONTACT:  
 FILE NAME: 200452-shr-removal-grnw-01.dgn  
 USER: wjdh  
 PEN TABLE: p101tbl.tbl



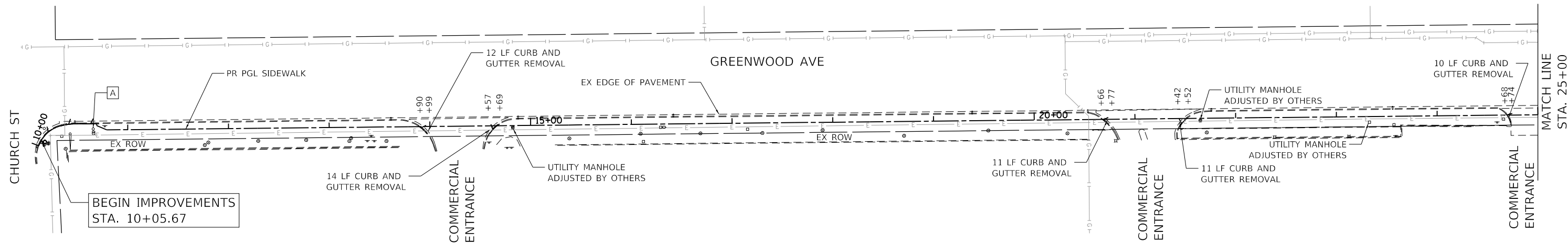
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	DRAWN - WJH	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED - BDH	REVISED -
PLOT DATE = 11/15/2023	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**REMOVAL PLAN  
 GREENWOOD AVENUE**

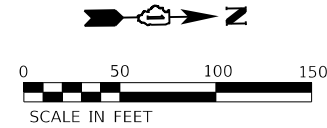
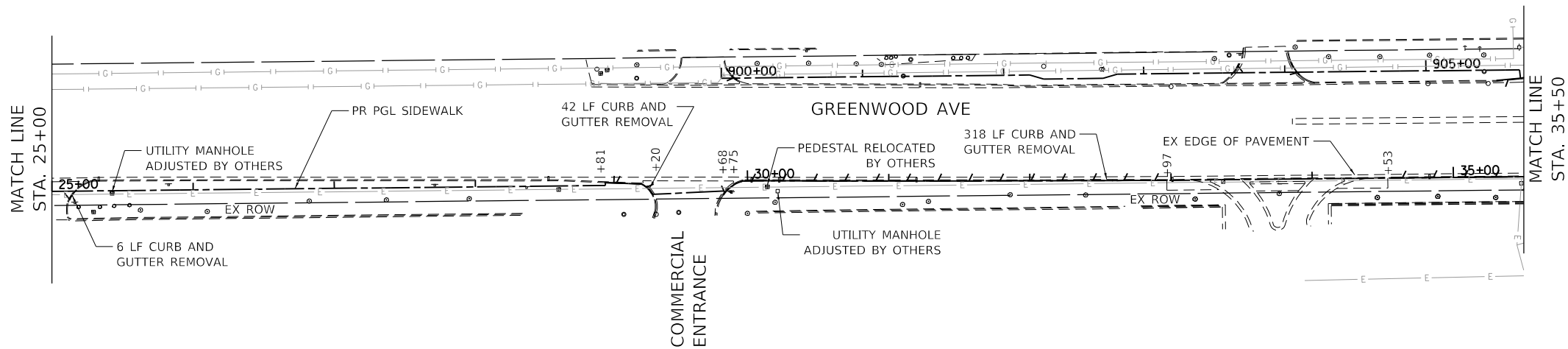
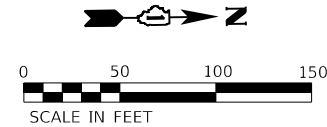
SCALE: 1"=50'	SHEET	OF	SHEETS	STA.	TO	STA.
---------------	-------	----	--------	------	----	------

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	18-00131-00-SW	COOK	145	21
CONTRACT NO. 61174			ILLINOIS FED. AID PROJECT	



**LEGEND**

	DRIVEWAY PAVEMENT REMOVAL
	SIDEWALK REMOVAL
	COMBINATION CURB AND GUTTER REMOVAL
	FRAME & GRATE / FRAME & LID TO BE ADJUSTED
	TREE TRUNK PROTECTION



HRG PROJECT NO.: 200452  
 HRG PROJ. CONTACT:  
 FILE NAME: 200452-shr-removal-grnw-02.dgn  
 PEN TABLE: 1/10/2023.tbl



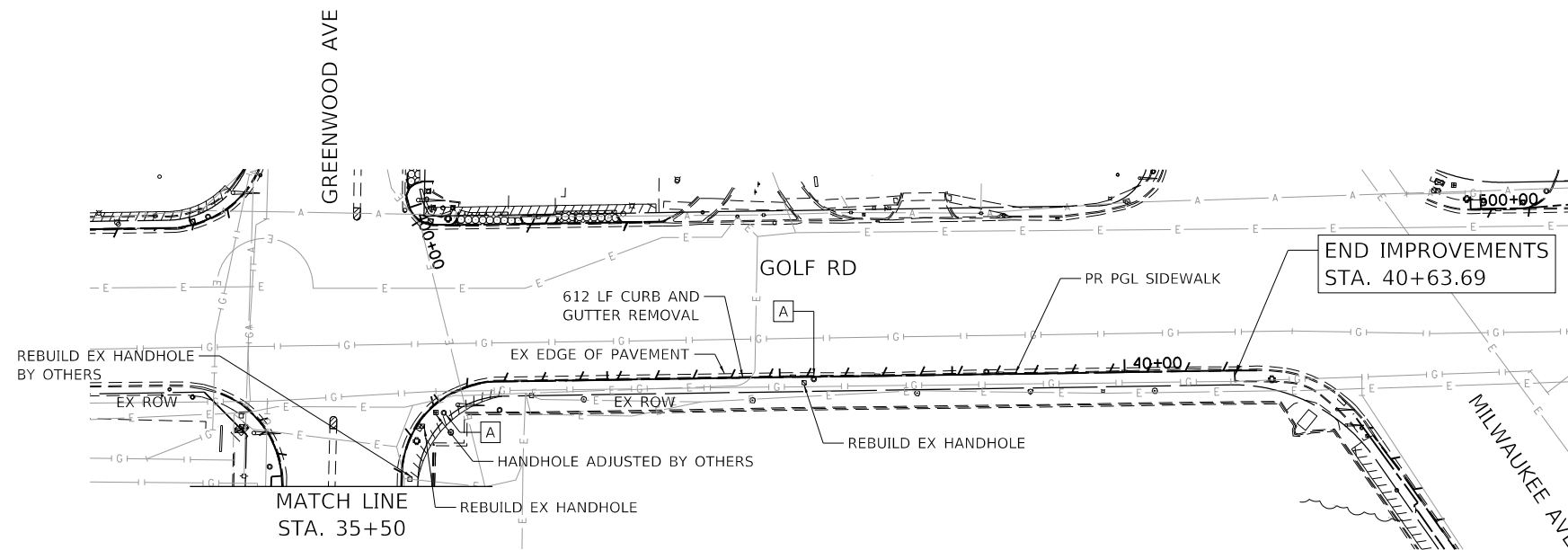
USER NAME = bhartma	DESIGNED - CW	REVISED -
	DRAWN - WJH	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED - BDH	REVISED -
PLOT DATE = 11/15/2023	DATE -	REVISED -

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

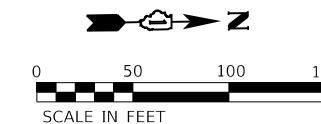
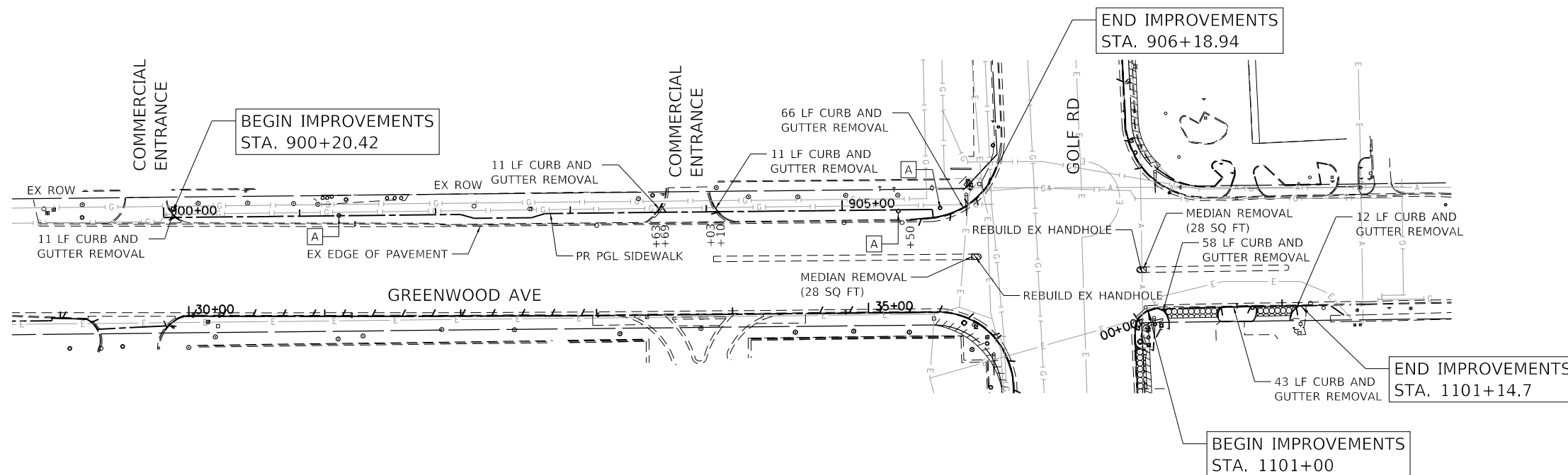
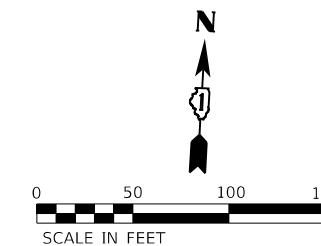
**REMOVAL PLAN**  
**GREENWOOD AVENUE**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	18-00131-00-SW	COOK	145	22
CONTRACT NO.			61174	
ILLINOIS FED. AID PROJECT				



LEGEND	
	DRIVEWAY PAVEMENT REMOVAL
	SIDEWALK REMOVAL
	COMBINATION CURB AND GUTTER REMOVAL
	FRAME & GRATE / FRAME & LID TO BE ADJUSTED
	TREE TRUNK PROTECTION



HRG PROJECT NO: 200452  
 HRG PROJ CONTACT:  
 FILE NAME: 200452-shr-removal-grnw-03.dgn  
 PEN TABLE: p101table.tbl

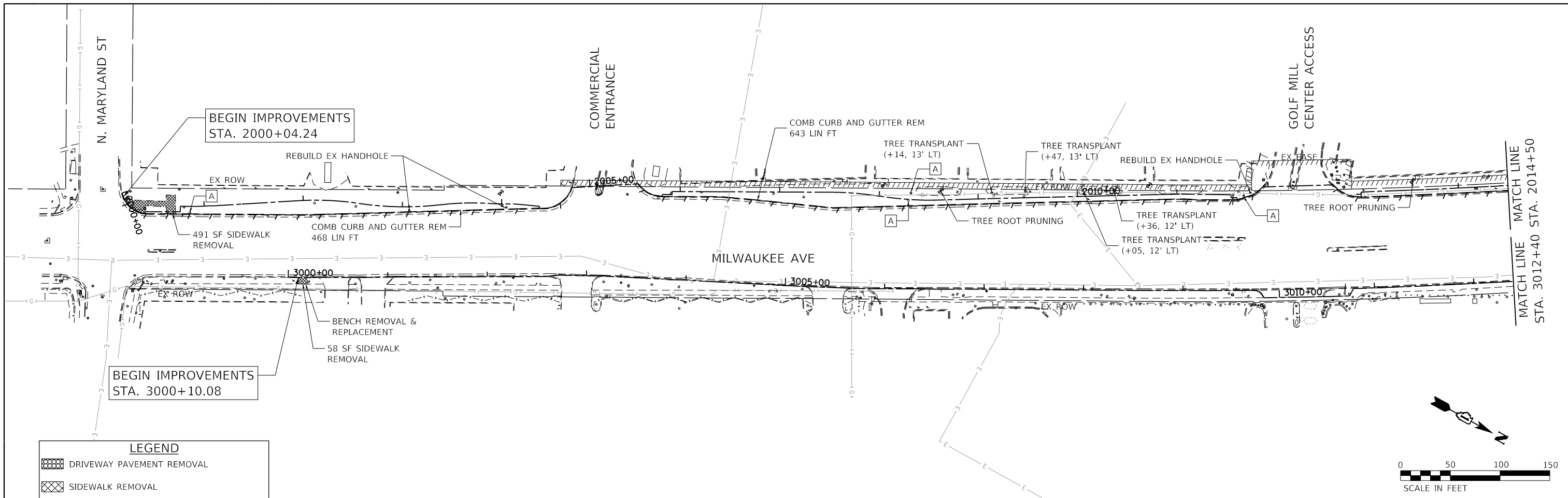


USER NAME = bhartma	DESIGNED - CW	REVISED -
PLOT SCALE = 100.0000' / in.	DRAWN - W/JH	REVISED -
PLOT DATE = 11/15/2023	CHECKED - BDH	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

REMOVAL PLAN GREENWOOD AVENUE	
SCALE: 1"=50'	SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	18-00131-00-SW	COOK	145	23
CONTRACT NO. 61174				
ILLINOIS FED. AID PROJECT				

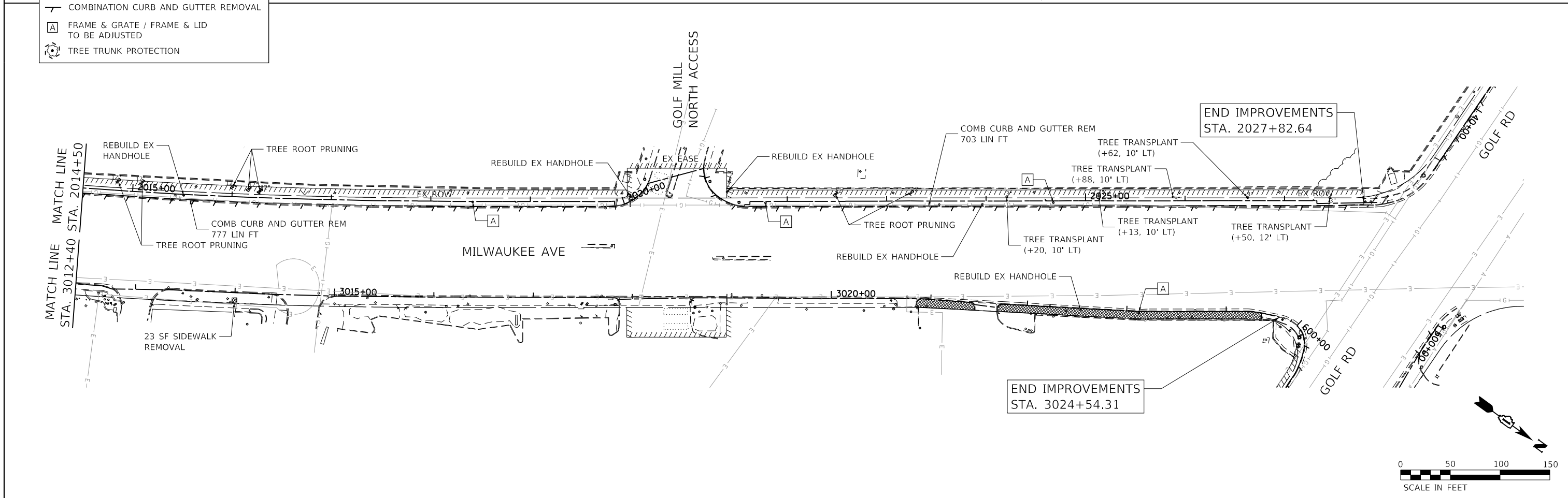
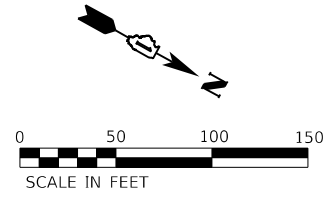


BEGIN IMPROVEMENTS  
STA. 2000+04.24

BEGIN IMPROVEMENTS  
STA. 3000+10.08

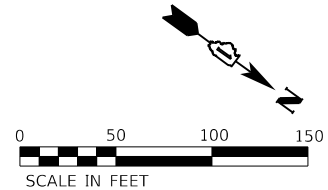
**LEGEND**

- DRIVEWAY PAVEMENT REMOVAL
- SIDEWALK REMOVAL
- COMBINATION CURB AND GUTTER REMOVAL
- FRAME & GRATE / FRAME & LID TO BE ADJUSTED
- TREE TRUNK PROTECTION



END IMPROVEMENTS  
STA. 2027+82.64

END IMPROVEMENTS  
STA. 3024+54.31



HRG PROJECT NO. 200452  
 HRG PROJ. CONTACT:  
 FILE NAME: 200452-shr-removal-mil-01.dgn  
 PEN TABLE: 1/15/2023



USER NAME = bhartma	DESIGNED - CW	REVISED -
	DRAWN - W/JH	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED - BDH	REVISED -
PLOT DATE = 11/15/2023	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>REMOVAL PLAN MILWAUKEE AVENUE</b>	
SCALE: 1"=50'	SHEET OF SHEETS STA. TO STA.

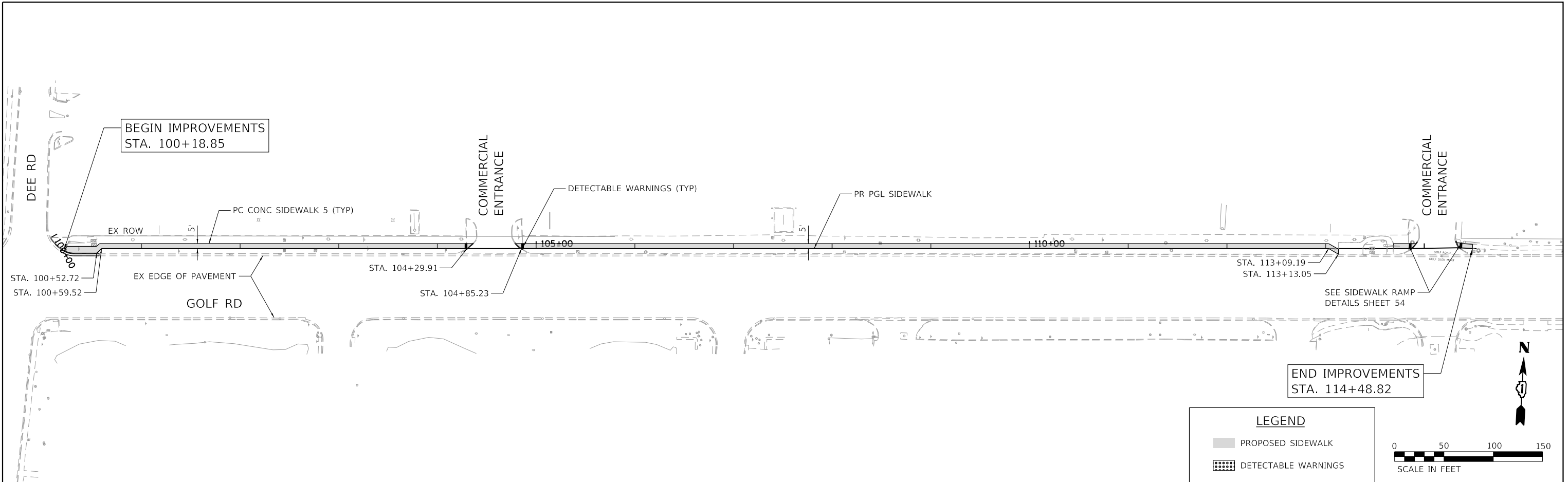
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	18-00131-00-SW	COOK	145	24
CONTRACT NO. 61174			ILLINOIS FED. AID PROJECT	



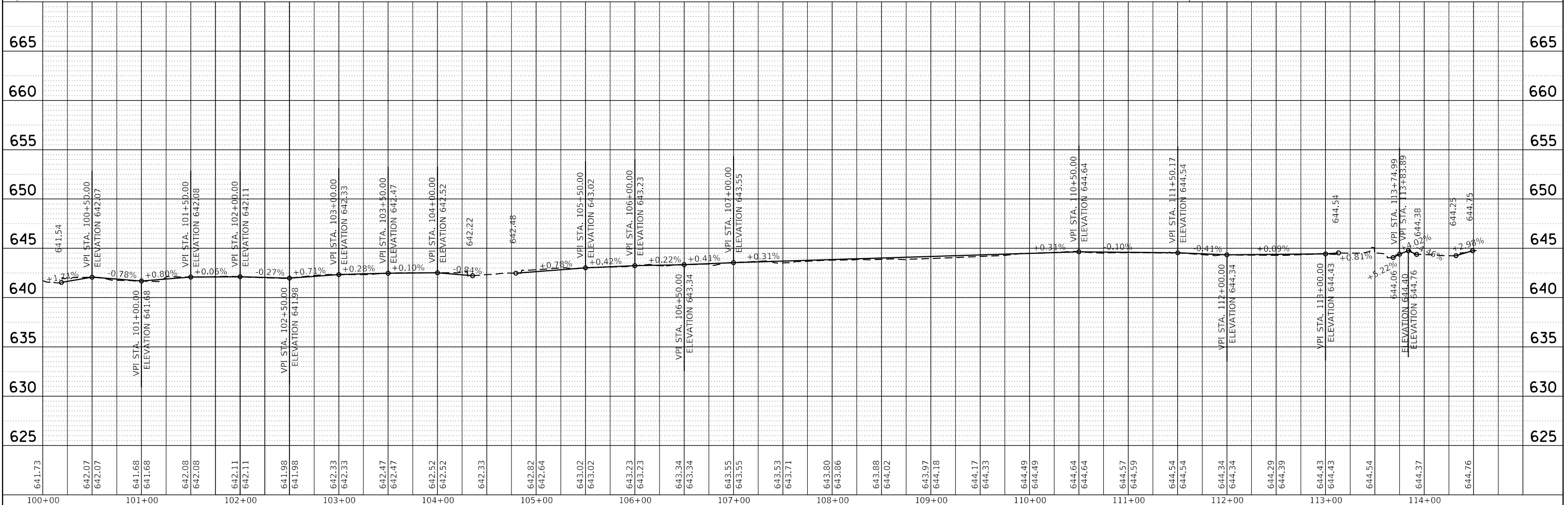
PLAN		SURVEYED		DATE	
NO.	NO.	BY	BY		

PROFILE		DATE	
NO.	NO.	BY	BY

HRG PROJECT NO: 200452  
 HRG PROJ CONTACT:  
 FILE NAME: 200452-SHT-PLAN-GOLF-01.dgn  
 PEN TABLE: p10tabdel.tbl



LEGEND	
	PROPOSED SIDEWALK
	DETECTABLE WARNINGS



641.73	642.07	642.07	641.68	641.68	642.08	642.08	642.11	642.11	641.98	641.98	642.33	642.33	642.47	642.47	642.52	642.52	642.33	642.82	642.64	643.02	643.02	643.23	643.23	643.34	643.34	643.55	643.55	643.53	643.71	643.80	643.86	643.88	644.02	643.97	644.18	644.17	644.33	644.49	644.49	644.64	644.64	644.57	644.59	644.54	644.54	644.34	644.34	644.29	644.39	644.43	644.43	644.54	644.54	644.37	644.37	644.76	644.76
100+00	101+00	102+00	103+00	104+00	105+00	106+00	107+00	108+00	109+00	110+00	111+00	112+00	113+00	114+00																																											

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 #184-001322

USER NAME = bhartma	DESIGNED - CW	REVISED -
	DRAWN - WJH	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED - BDH	REVISED -
PLOT DATE = 11/15/2023	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PLAN AND PROFILE  
 GOLF ROAD**

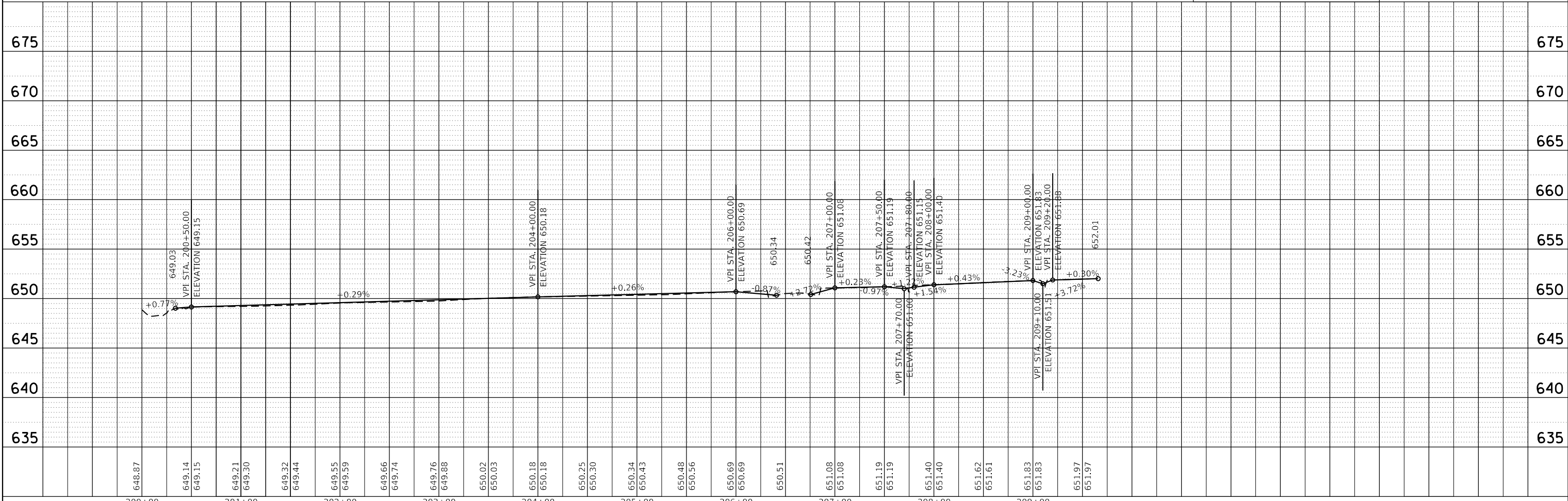
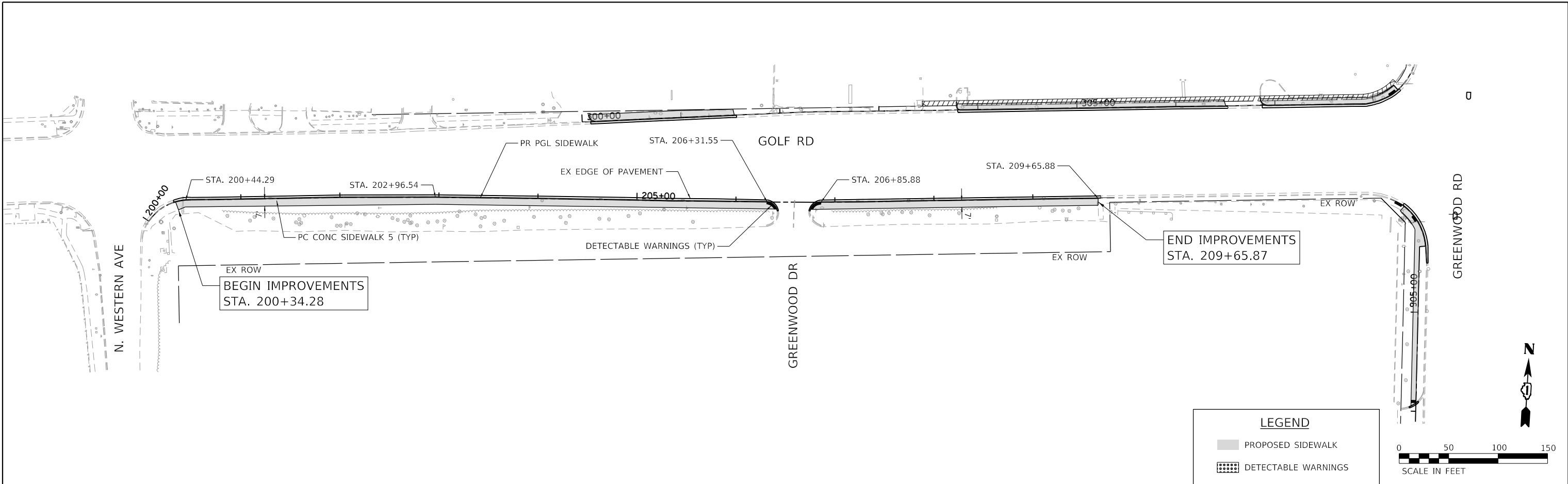
SCALE: 1"=50'    SHEET 1 OF 9 SHEETS    STA. 100+18.94 TO STA. 114+48.82

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	18-00131-00-SW	COOK	145	25
CONTRACT NO. 61174				
ILLINOIS FED. AID PROJECT				

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

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

HRG PROJECT NO.: 200452  
 HRG PROJ. CONTACT:  
 FILE NAME: 200452-SW-PLAN-GOLF-02.dgn  
 PEN TABLE: p:\table.tbl



648.87	649.14	649.15	649.21	649.30	649.32	649.44	649.55	649.59	649.66	649.74	649.76	649.88	650.02	650.03	650.18	650.18	650.25	650.30	650.34	650.34	650.43	650.48	650.56	650.69	650.69	650.51	651.08	651.08	651.19	651.19	651.40	651.40	651.62	651.61	651.83	651.83	651.97	651.97	675			
200+00	201+00	202+00	203+00	204+00	205+00	206+00	207+00	208+00	209+00																																	675

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USER NAME = bhartma	DESIGNED - CW	REVISED -
	DRAWN - WJH	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED - BDH	REVISED -
PLOT DATE = 11/15/2023	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PLAN AND PROFILE  
 GOLF ROAD**  
 SCALE: 1"=50' SHEET 2 OF 9 SHEETS STA. 200+00 TO STA. 209+65.88

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	18-00131-00-SW	COOK	145	26
CONTRACT NO. 61174				
ILLINOIS		FED. AID PROJECT		

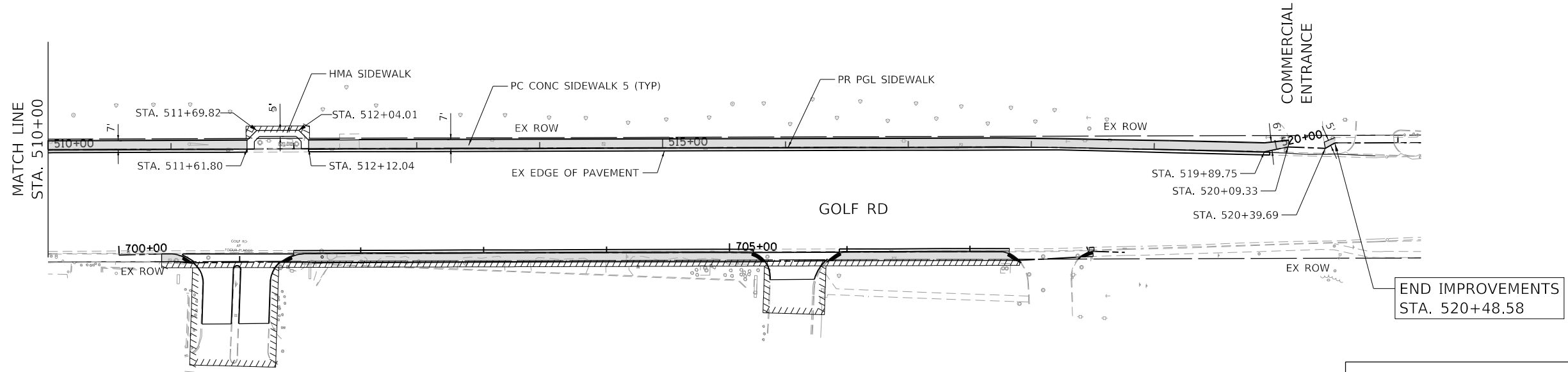




PLAN	SURVEYED	BY	DATE
	PLOTTED		
	ALIGNED		
	CHECKED		
	FILED		
	CARD FILE NAME		
	NO.		

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

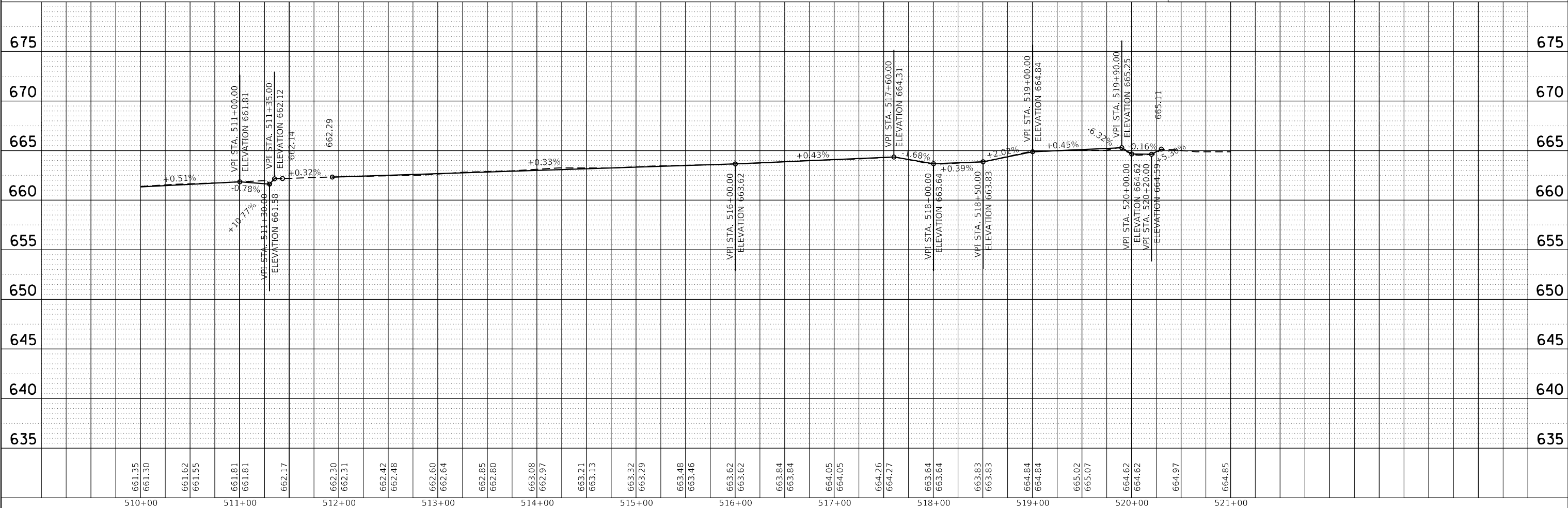
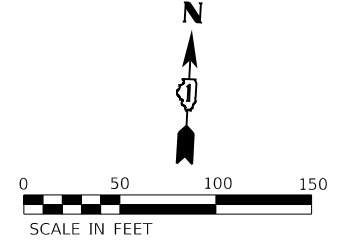
HRG PROJECT NO: 200452  
 HRG PROJ CONTACT:  
 FILE NAME: 200452-shr-2023-05.dgn  
 PEN TABLE: penTable.tbl



**LEGEND**

PROPOSED SIDEWALK

DETECTABLE WARNINGS



661.35	661.30	661.62	661.55	661.81	661.81	662.17	662.30	662.31	662.42	662.48	662.60	662.64	662.85	662.80	663.08	662.97	663.21	663.13	663.32	663.29	663.48	663.46	663.62	663.62	663.84	663.84	664.05	664.05	664.26	664.27	663.64	663.64	663.83	663.83	664.84	664.84	665.02	665.07	664.62	664.62	664.97	664.85	675							
510+00	511+00	512+00	513+00	514+00	515+00	516+00	517+00	518+00	519+00	520+00	521+00																																							

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USER NAME = bhartma	DESIGNED - CW	REVISED -
	DRAWN - WJH	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED - BDH	REVISED -
PLOT DATE = 11/15/2023	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PLAN AND PROFILE  
 GOLF ROAD**

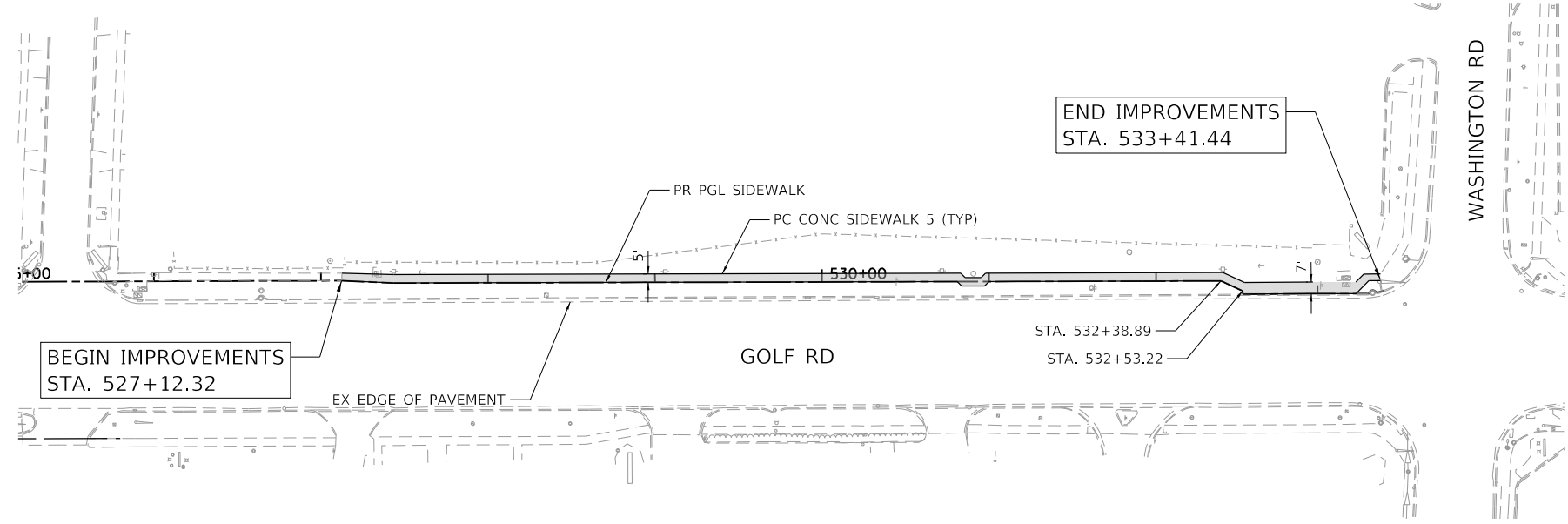
SCALE: 1"=50' SHEET 5 OF 9 SHEETS STA. 510+00 TO STA. 520+29.84

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	18-00131-00-SW	COOK	145	29
		CONTRACT NO. 61174		
		ILLINOIS FED. AID PROJECT		

PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNED	
	CHECKED	
	BY	
	NO.	

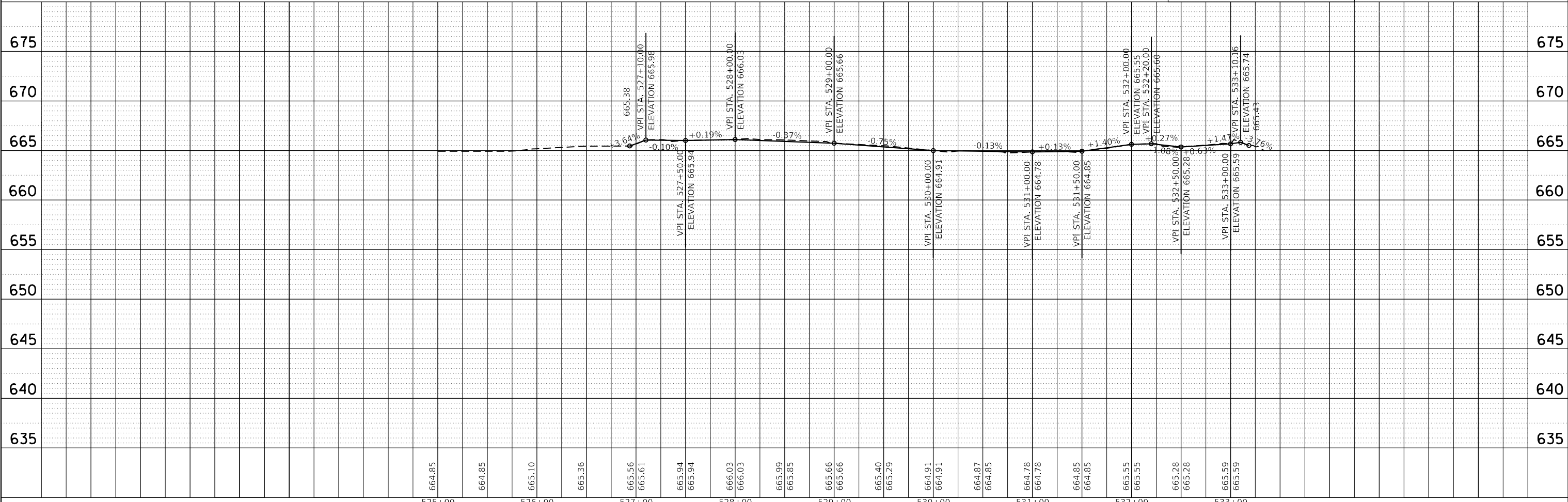
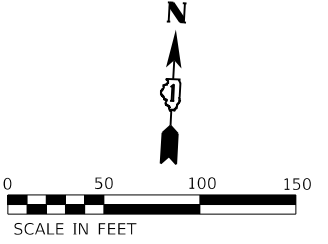
PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES	
	CHECKED	
	BY	
	NO.	

HRG PROJECT NO. 200452  
 HRG PROJ. CONTACT:  
 FILE NAME: 200452-shr-p/par-f-golf-06.dgn  
 PEN TABLE: p/par/label.tbl



**LEGEND**

- PROPOSED SIDEWALK
- DETECTABLE WARNINGS

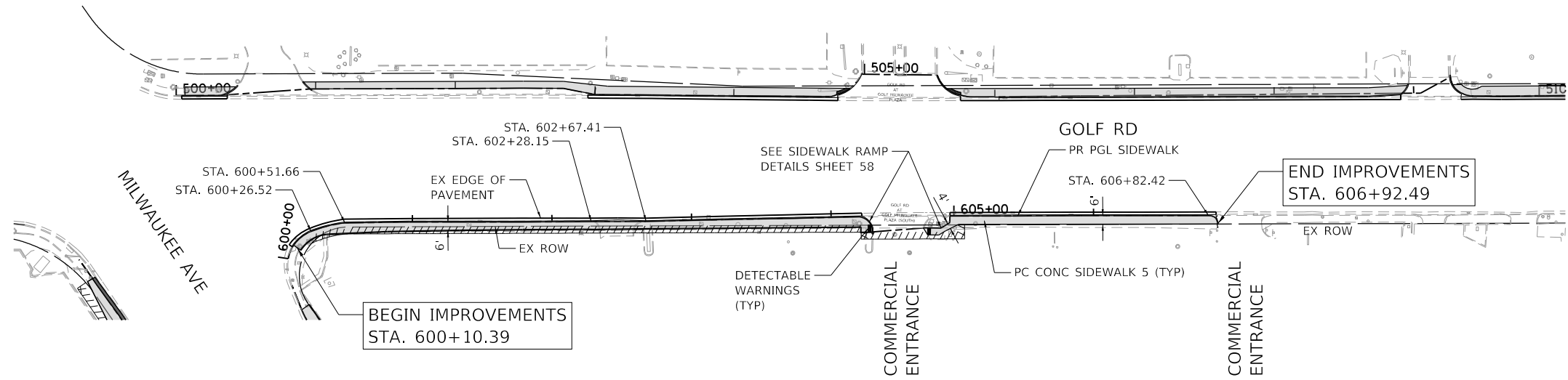


	USER NAME = bhartma	DESIGNED - CW	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>PLAN AND PROFILE</b> <b>GOLF ROAD</b>	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 100.0000' / in.	CHECKED - BDH	REVISED -			VAR.	18-00131-00-SW	COOK	145	30
	PLOT DATE = 11/15/2023	DATE -	REVISED -	SCALE: 1"=50'		SHEET 6 OF 9 SHEETS		STA. 526+93.57 TO STA. 533+18.49		CONTRACT NO. 61174
						ILLINOIS		FED. AID PROJECT		

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

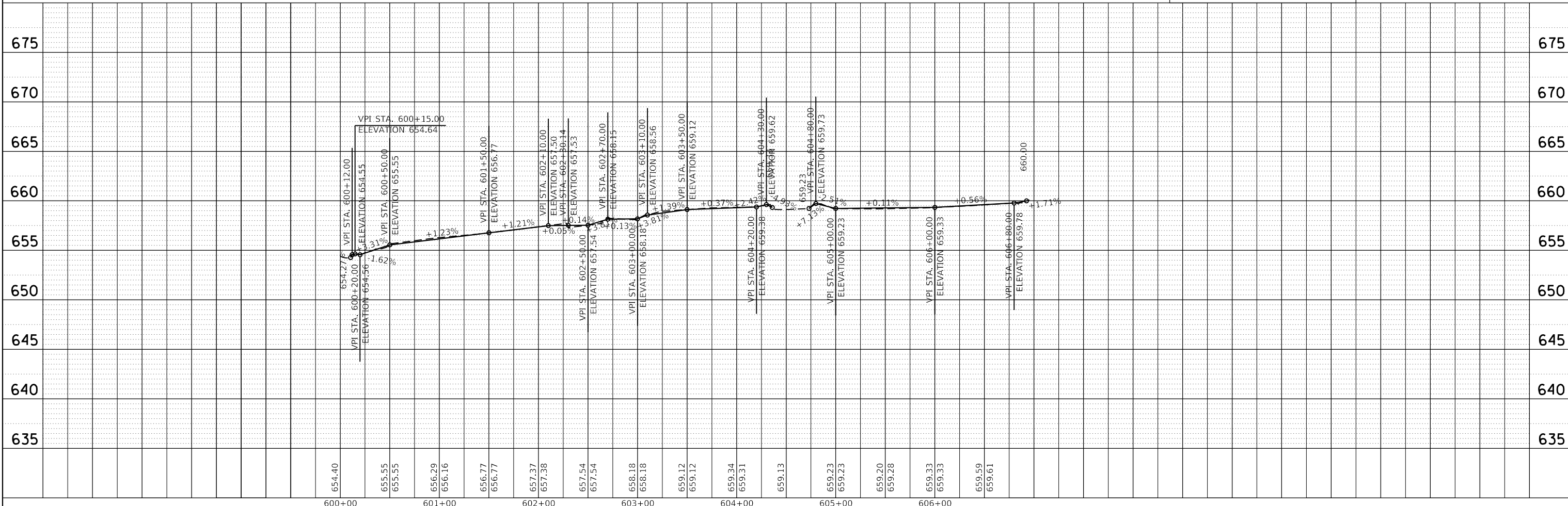
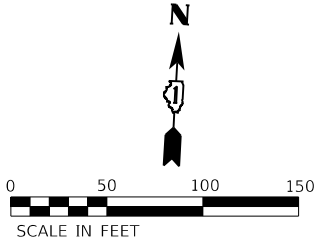
PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS OK'D	
	NO.	

HRG PROJECT NO. 200452  
 HRG PROJ. CONTACT:  
 FILE NAME: 200452-shr-p/par-f-golf-07.dgn  
 PEN TABLE: par/tables.tbl



**LEGEND**

- PROPOSED SIDEWALK
- DETECTABLE WARNINGS

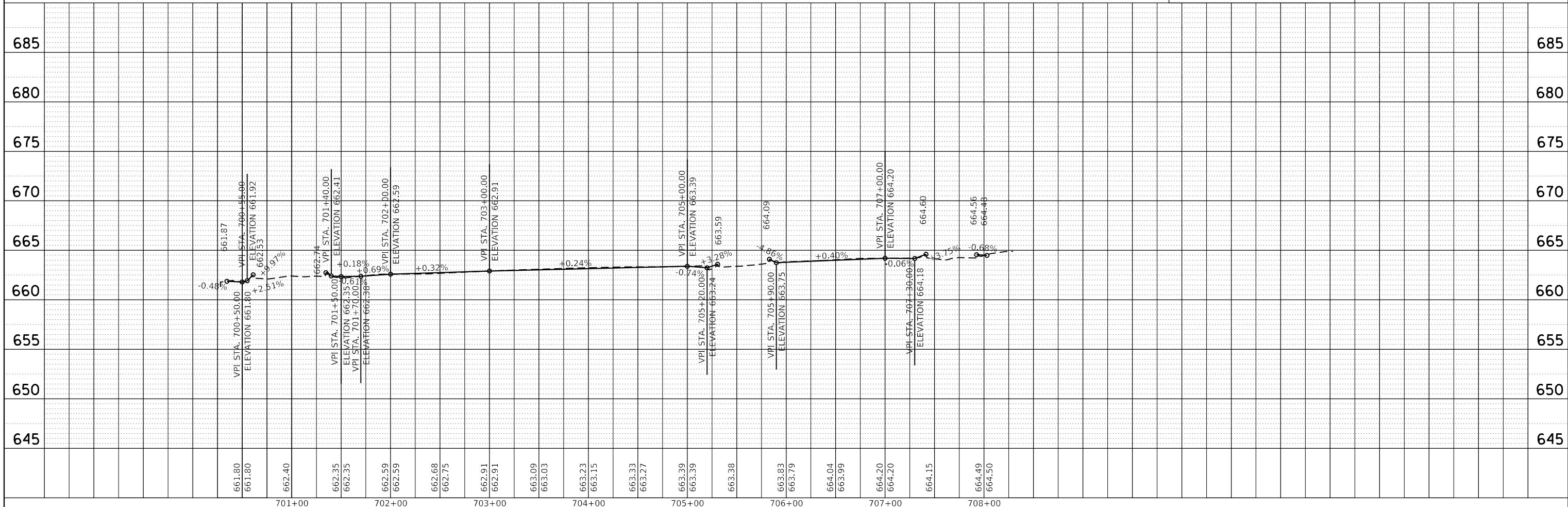
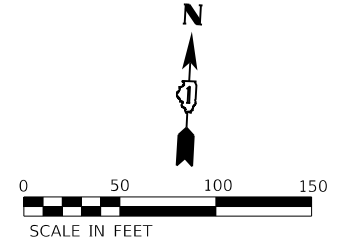
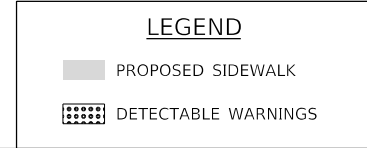
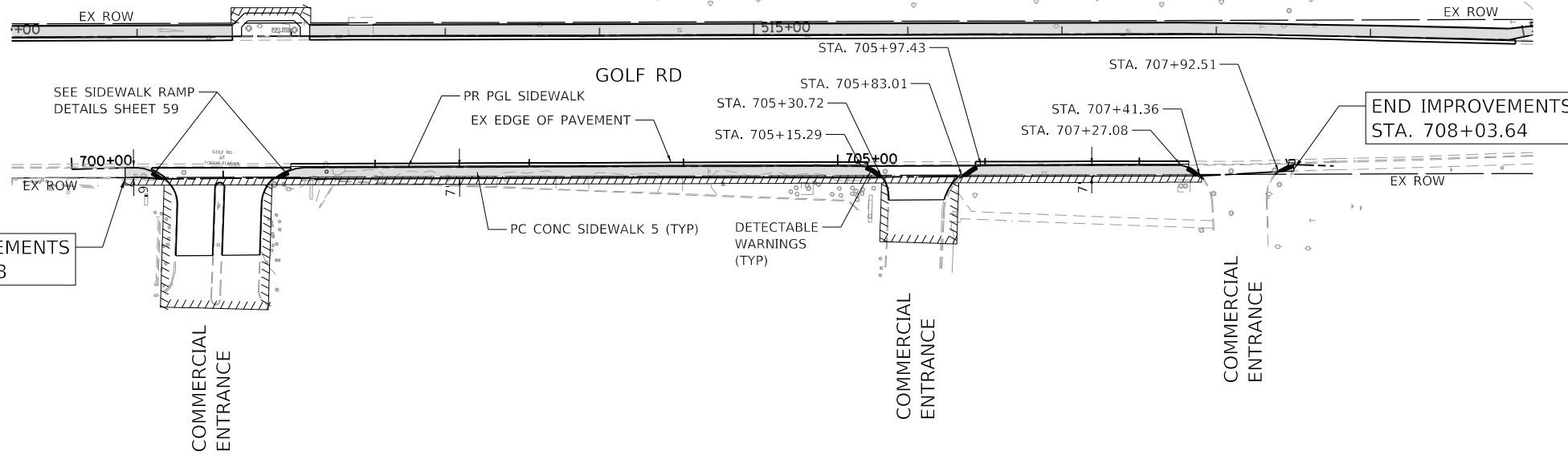


	USER NAME = bhartma	DESIGNED - CW	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>PLAN AND PROFILE</b> <b>GOLF ROAD</b>	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 100.0000' / in.	CHECKED - BDH	REVISED -			VAR.	18-00131-00-SW	COOK	145	31
	PLOT DATE = 11/15/2023	DATE -	REVISED -	SCALE: 1"=50'		SHEET 7 OF 9 SHEETS		STA. 600+00 TO STA. 606+92.49		CONTRACT NO. 61174
						ILLINOIS		FED. AID PROJECT		

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

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

HRG PROJECT NO: 200452  
 HRG PROJ CONTACT:  
 FILE NAME: 200452-SHT-18-00131-00-SW.dwg  
 PEN TABLE: ptable.tbl



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 #184-001322

USER NAME = bhartma	DESIGNED - CW	REVISED -
	DRAWN - WJH	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED - BDH	REVISED -
PLOT DATE = 11/15/2023	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PLAN AND PROFILE  
 GOLF ROAD**

SCALE: 1"=50' SHEET 8 OF 9 SHEETS STA. 700+34.43 TO STA. 708+03.02

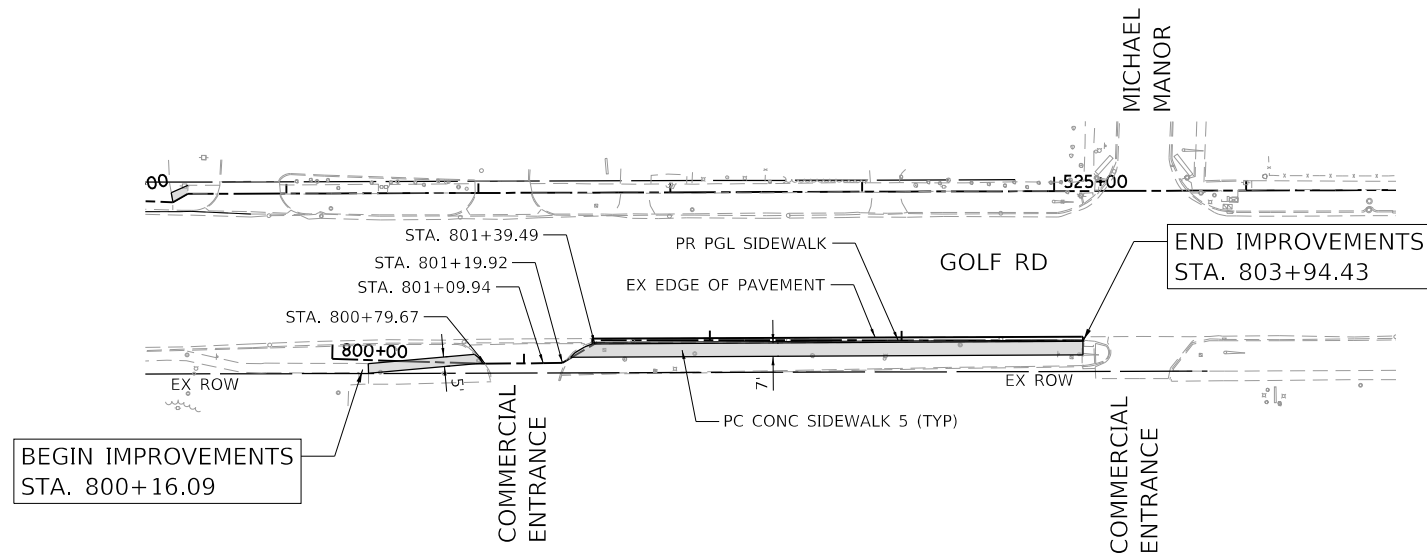
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	18-00131-00-SW	COOK	145	32
		CONTRACT NO. 61174		
		ILLINOIS FED. AID PROJECT		



PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNED	
	CHECKED	
	BY	
	NO.	

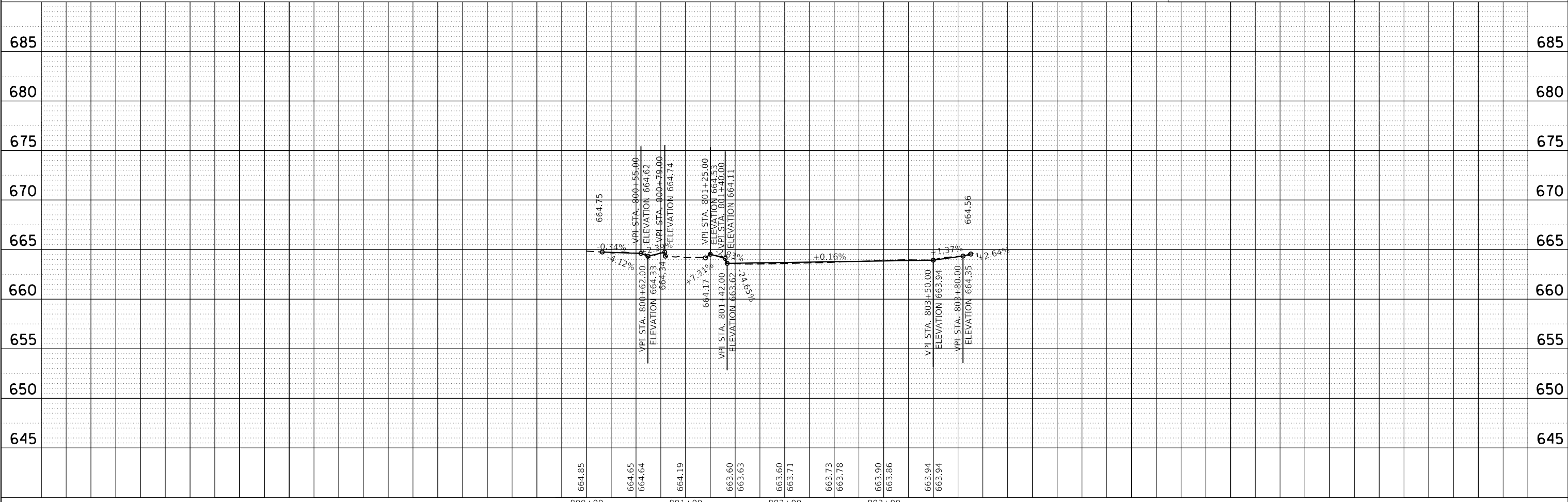
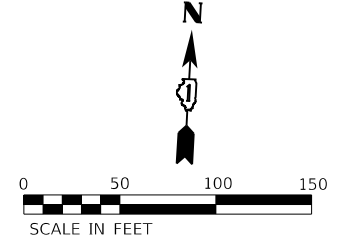
PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS OK'D	
	NO.	

HRG PROJECT NO.: 200452  
 HRG PROJ. CONTACT:  
 FILE NAME: 200452-shr-p/hr-f-golf-03.dgn  
 PEN TABLE: p101tbl01.tbl



**LEGEND**

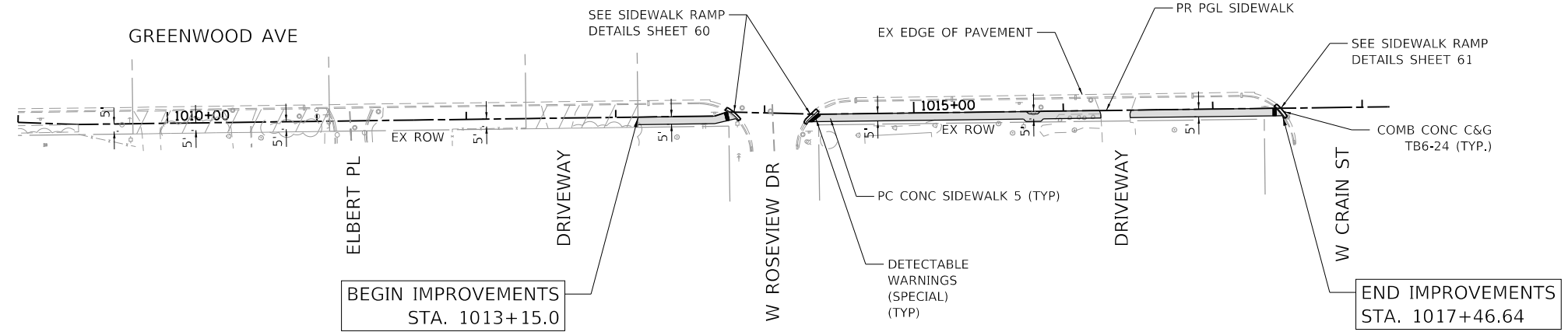
- PROPOSED SIDEWALK
- DETECTABLE WARNINGS



	USER NAME = bhartma DESIGNED - CW DRAWN - WJH CHECKED - BDH DATE -	REVISED - REVISED - REVISED - REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>PLAN AND PROFILE</b> <b>GOLF ROAD</b>	F.A. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO. VAR. 18-00131-00-SW COOK 145 33
	PLOT SCALE = 100.0000' / in. PLOT DATE = 11/15/2023	SCALE: 1"=50' SHEET 9 OF 9 SHEETS STA. 800+15.95 TO STA. 803+87.85			CONTRACT NO. 61174 ILLINOIS FED. AID PROJECT

PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNED	
	CHECKED	
	DESIGNED	
	BY	
	DATE	
	NO.	
	FILE NAME	
	TABLE NAME	

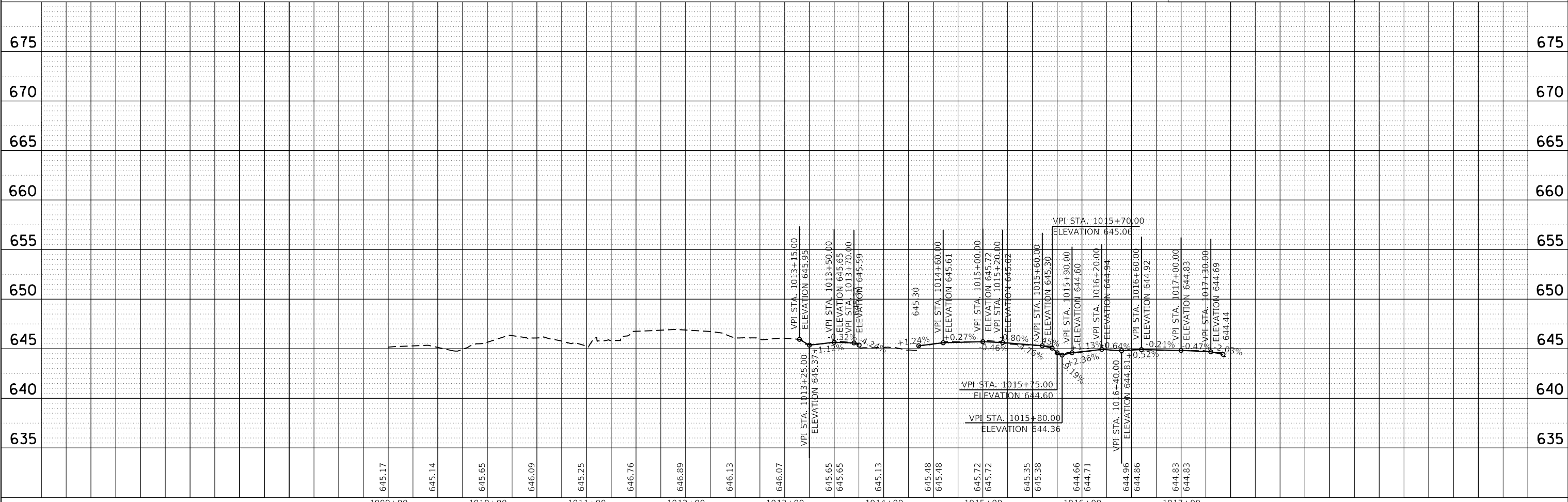
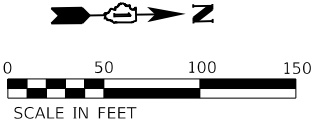
PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	BY	
	DATE	
	NO.	
	FILE NAME	
	TABLE NAME	



**LEGEND**

PROPOSED SIDEWALK

DETECTABLE WARNINGS



HRG PROJECT NO.: 200452  
 HRG PROJ. CONTACT:  
 FILE NAME: 200452-SHT-PLAN-GR-1013-15.0.dgn  
 PEN TABLE: plan-table.tbl



USER NAME = bhartma	DESIGNED - CW	REVISED -
	DRAWN - WJH	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED - BDH	REVISED -
PLOT DATE = 11/15/2023	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PLAN AND PROFILE  
 GREENWOOD AVENUE**

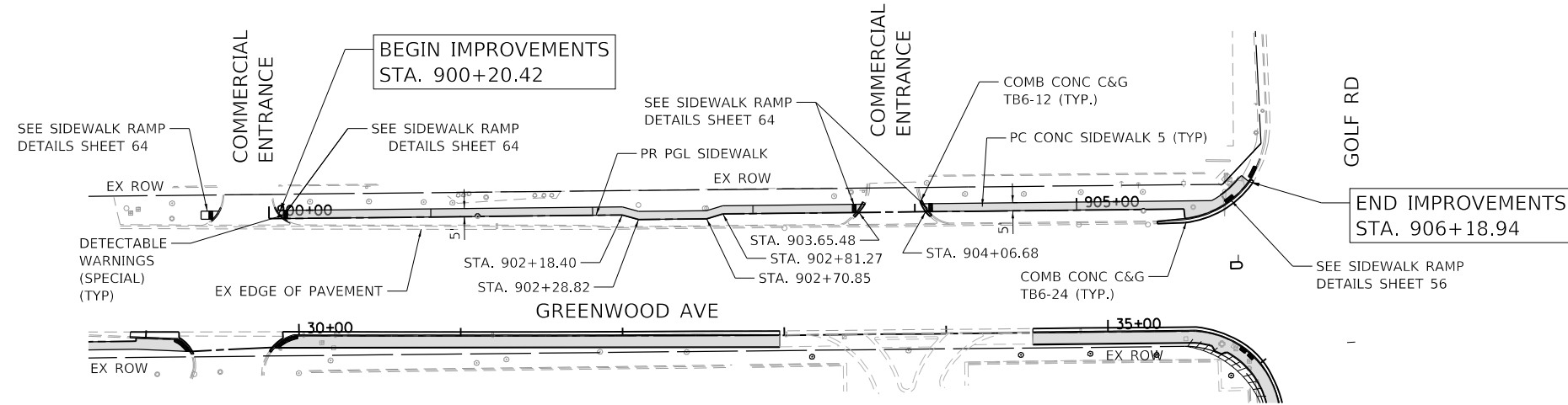
SCALE: 1"=50' SHEET 1 OF 5 SHEETS STA. 1009+00 TO STA. 1017+46.64

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	18-00131-00-SW	COOK	145	34
CONTRACT NO. 61174				
ILLINOIS FED. AID PROJECT				

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

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHKD	
	NO.	

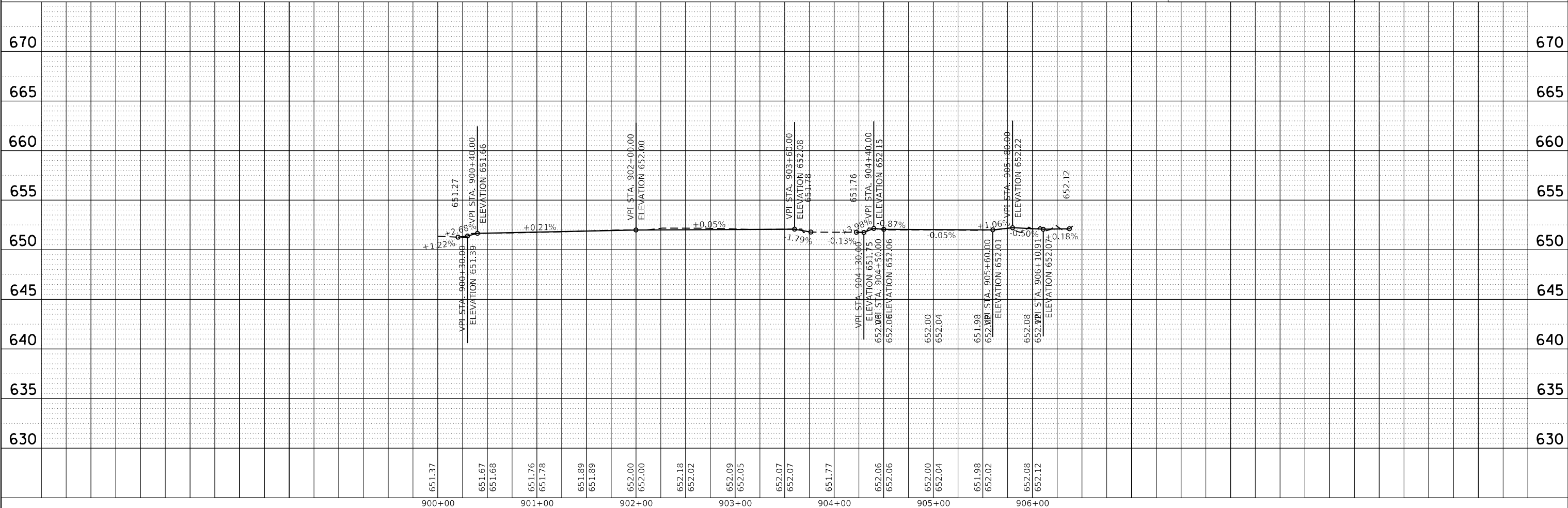
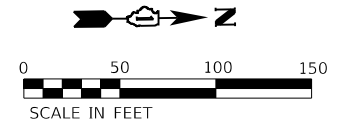
HRG PROJECT NO. 200452  
 HRG PROJ. CONTACT:  
 FILE NAME: 200452-shr-p100-f-grnw-03.dgn  
 PEN TABLE: p100tbl.tbl



**LEGEND**

■ PROPOSED SIDEWALK

▤ DETECTABLE WARNINGS

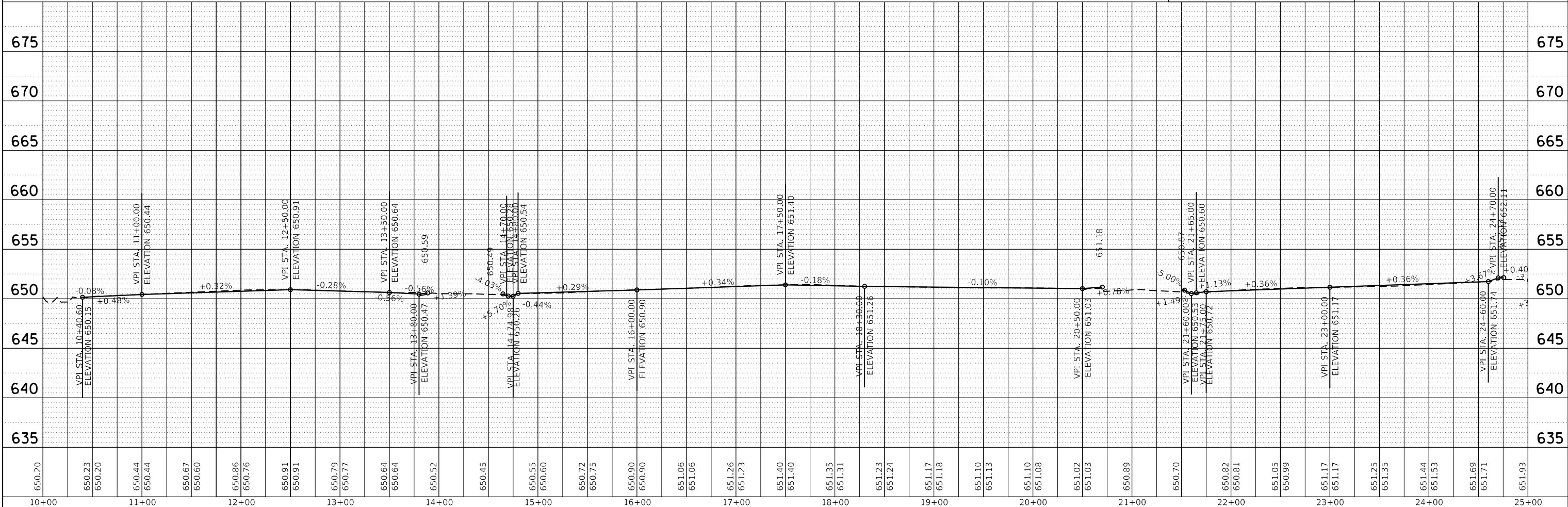
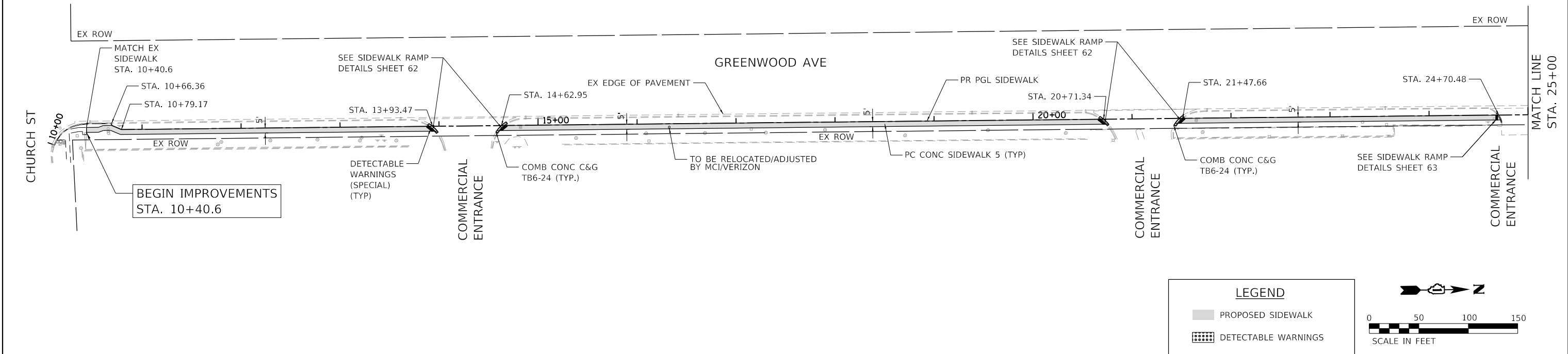


HRG PROJECT NO. 200452	HRGreen.com	DESIGNED - CW	REVISIONS	STATE OF ILLINOIS	PLAN AND PROFILE	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HRG PROJ. CONTACT:	Illinois Professional Design Firm	DRAWN - WJH	REVISIONS	DEPARTMENT OF TRANSPORTATION	GREENWOOD AVENUE	VAR.	18-00131-00-SW	COOK	145	35
FILE NAME: 200452-shr-p100-f-grnw-03.dgn	# 184-001322	CHECKED - BDH	REVISIONS							
PEN TABLE: p100tbl.tbl		DATE	REVISIONS							
						SCALE: 1"=50'	SHEET 2 OF 5 SHEETS	STA. 900+20.42 TO STA. 900+37.34	ILLINOIS	FED. AID PROJECT
									CONTRACT NO. 61174	

PLAN	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	ALIGNMENT CHECKED	
	ASPHALT PAVED	
	CONCRETE PAVED	
	FILE NAME	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	ALIGNMENT CHECKED	
	ASPHALT PAVED	
	CONCRETE PAVED	
	FILE NAME	
	NO.	

HRG PROJECT NO.: 200452  
 HRG PROJ. CONTACT:  
 FILE NAME: 200452-SW-18-00131-00-04.dgn  
 PEN TABLE: p180131.dtl



650.20	650.23	650.20	650.44	650.44	650.67	650.60	650.86	650.76	650.91	650.91	650.79	650.77	650.64	650.64	650.52	650.45	650.55	650.60	650.72	650.75	650.90	650.90	651.06	651.06	651.26	651.23	651.40	651.40	651.35	651.31	651.23	651.24	651.17	651.18	651.10	651.13	651.10	651.08	651.02	651.03	650.89	650.70	650.82	650.81	651.05	650.99	651.17	651.17	651.25	651.35	651.44	651.53	651.69	651.71	651.93
10+00	11+00	12+00	13+00	14+00	15+00	16+00	17+00	18+00	19+00	20+00	21+00	22+00	23+00	24+00	25+00																																								

USER NAME =	bhartma	DESIGNED -	CW	REVISED -	
		DRAWN -	WJH	REVISED -	
PLOT SCALE =	100.0000' / in.	CHECKED -	BDH	REVISED -	
PLOT DATE =	11/15/2023	DATE -		REVISED -	

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PLAN AND PROFILE  
GREENWOOD AVENUE**

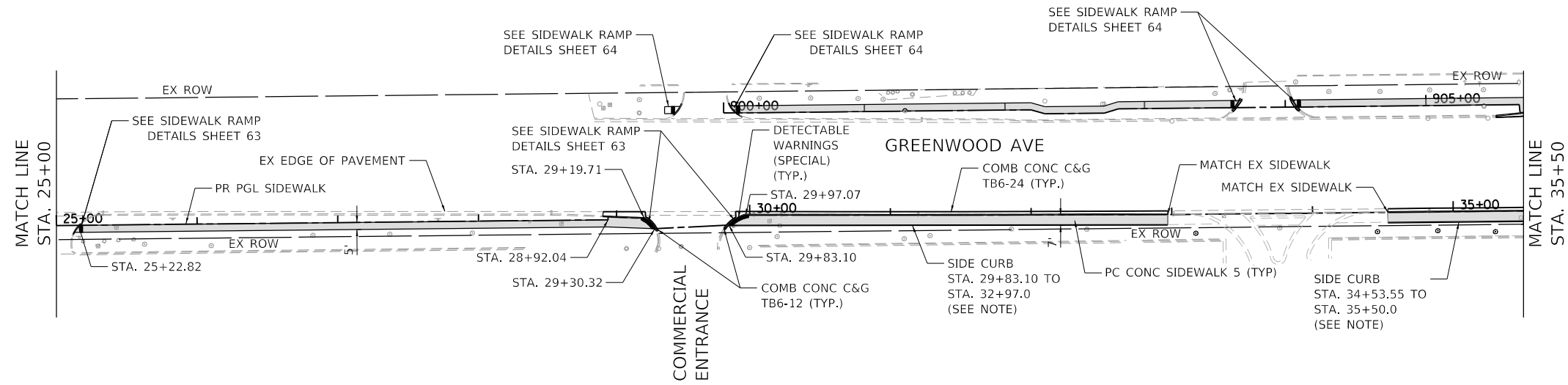
SCALE: 1"=50'     SHEET 3 OF 5 SHEETS     STA. 10+05.67 TO STA. 25+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	18-00131-00-SW	COOK	145	36
		CONTRACT NO.	61174	
		ILLINOIS	FED. AID PROJECT	

PLAN	SURVEYED	DATE
NOTE BOOK NO.	PLOTTED	BY
	ALIGNMENT CHECKED	
	AS BUILT	
	FIELD FILE NAME	

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

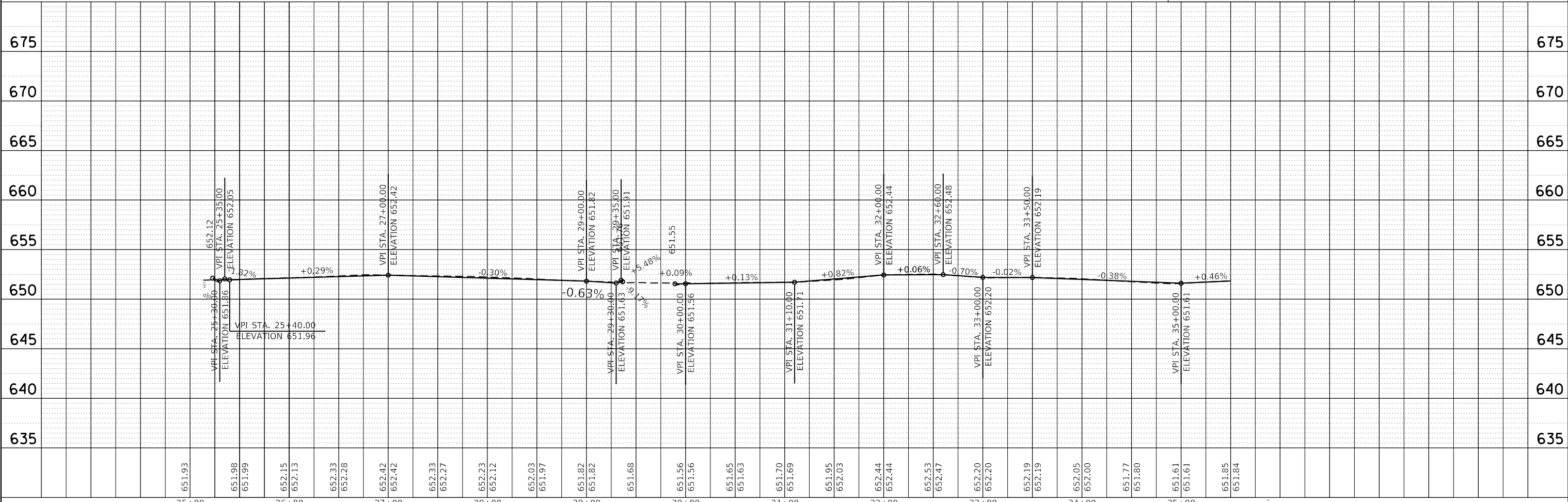
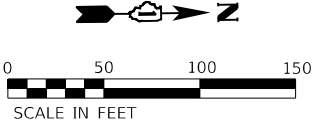
HRG PROJECT NO.: 200452  
 HRG PROJ. CONTACT:  
 FILE NAME: 200452-shr-p10p-f-0r-nw-05.dgn  
 PEN TABLE: p10table.tbl



**NOTE**  
 SIDE CURB FOLLOWING HIGHWAY STANDARD 424001 AND PAID FOR AS "PORTLAND CEMENT CONCRETE SIDEWALK, 5"

**LEGEND**

- PROPOSED SIDEWALK
- DETECTABLE WARNINGS



25+00	26+00	27+00	28+00	29+00	30+00	31+00	32+00	33+00	34+00	35+00											
651.93	651.98 651.99	652.15 652.13	652.33 652.28	652.42 652.42	652.33 652.27	652.23 652.12	652.03 651.97	651.82 651.82	651.68	651.56 651.56	651.65 651.63	651.70 651.69	651.95 652.03	652.44 652.44	652.53 652.47	652.20 652.20	652.19 652.19	652.05 652.00	651.77 651.80	651.61 651.61	651.85 651.84

**HRGreen.com**  
 Illinois Professional Design Firm  
 #184-001322

USER NAME = bhartma	DESIGNED - CW	REVISED -
	DRAWN - WJH	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED - BDH	REVISED -
PLOT DATE = 11/15/2023	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PLAN AND PROFILE  
 GREENWOOD AVENUE**

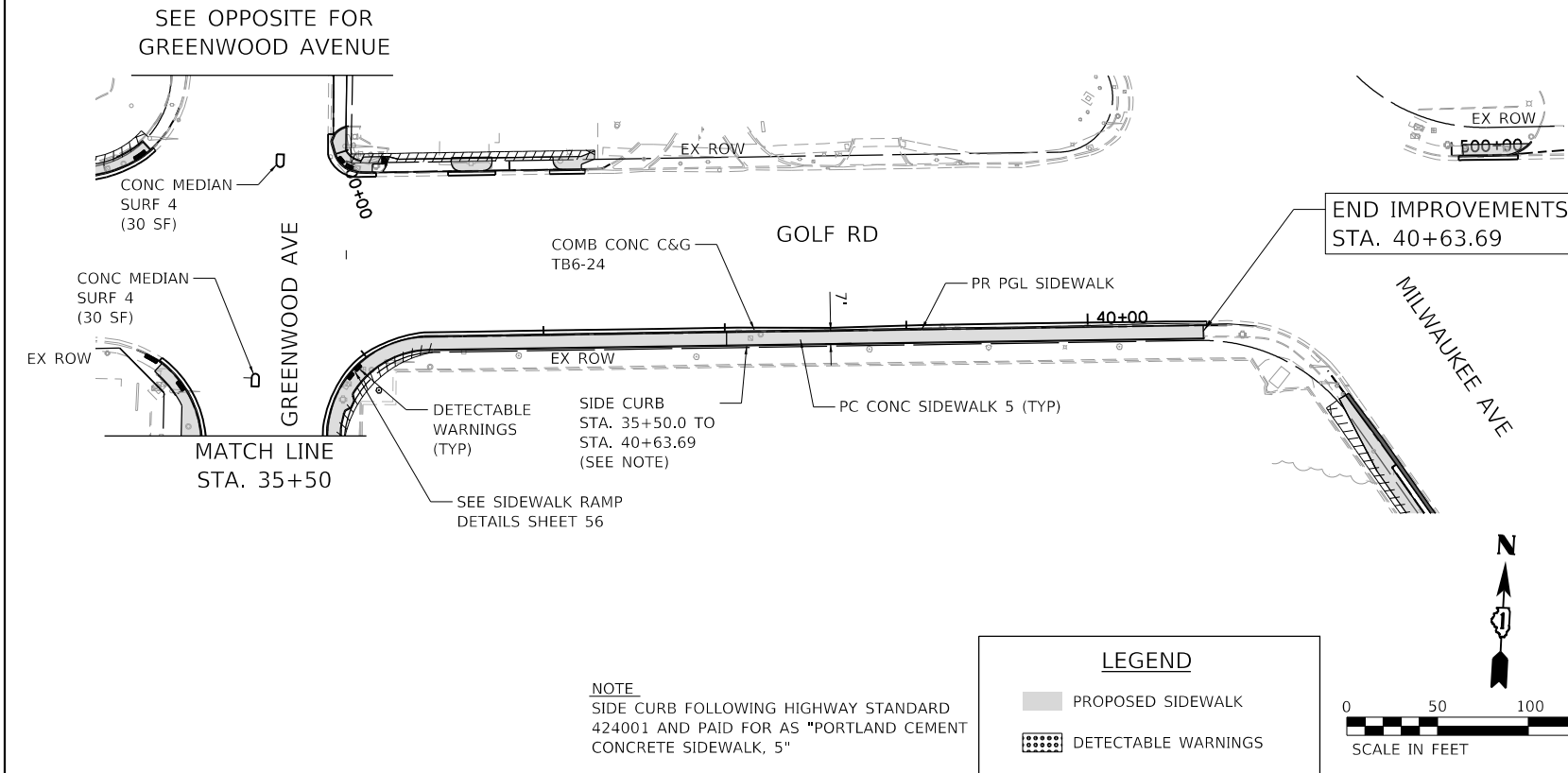
SCALE: 1"=50' SHEET 4 OF 5 SHEETS STA. 25+00 TO STA. 35+50

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	18-00131-00-SW	COOK	145	37
CONTRACT NO. 61174			ILLINOIS FED. AID PROJECT	

PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNED	
	CHECKED	
	BY	
	NO.	

PROFILE	SURVEYED	DATE
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHKD	
	NO.	

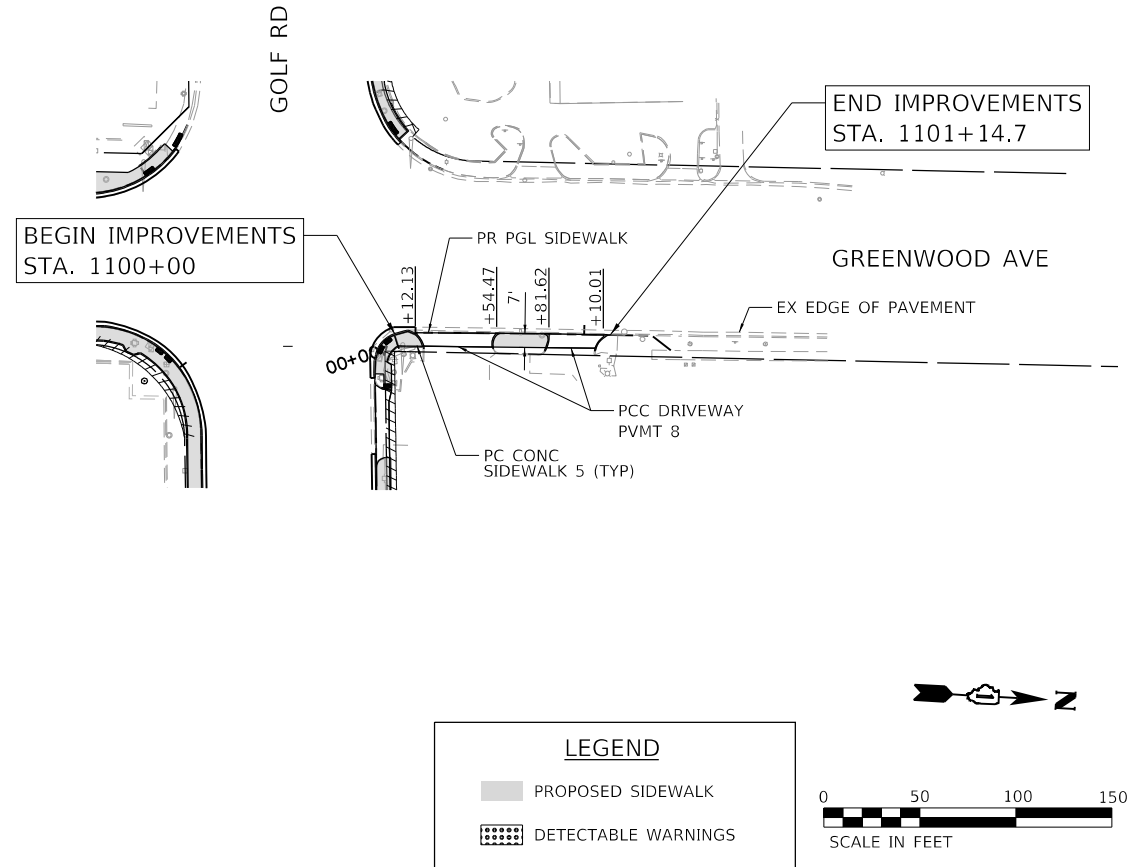
HRG PROJECT NO.: 200452  
 HRG PROJ. CONTACT:  
 FILE NAME: 200452-shr-p10p1-f-0r-nw-06.dgn  
 PEN TABLE: p10table.tbl



**NOTE**  
 SIDE CURB FOLLOWING HIGHWAY STANDARD 424001 AND PAID FOR AS "PORTLAND CEMENT CONCRETE SIDEWALK, 5"

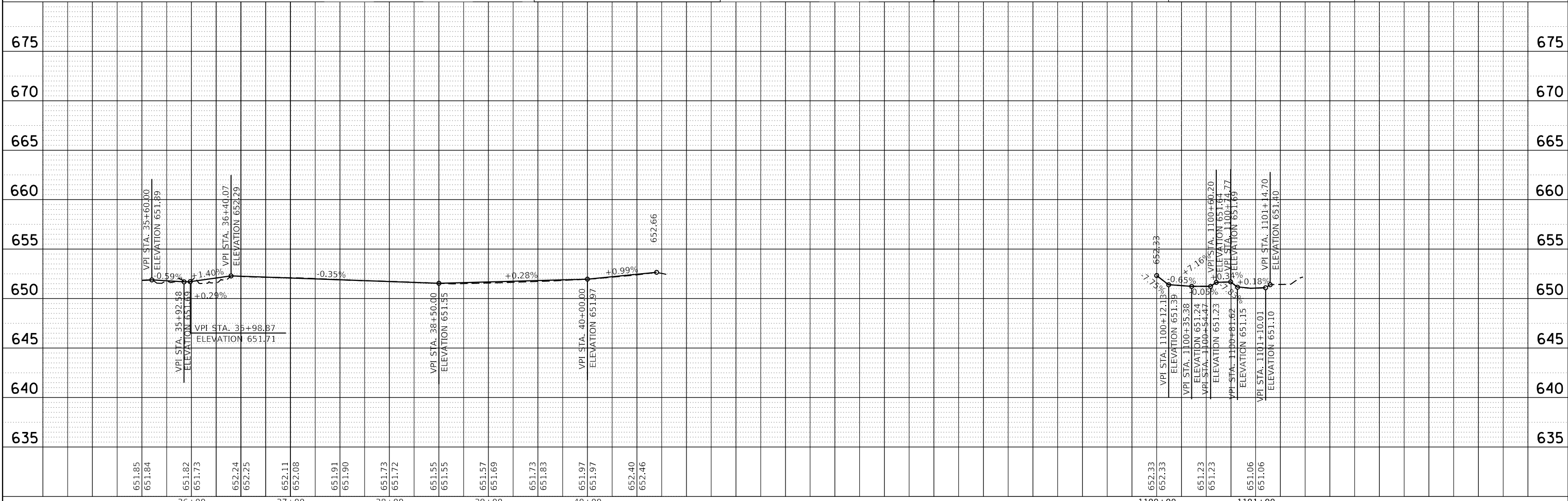
**LEGEND**

- PROPOSED SIDEWALK
- DETECTABLE WARNINGS



**LEGEND**

- PROPOSED SIDEWALK
- DETECTABLE WARNINGS



651.85	651.84	651.82	651.73	652.24	652.25	652.11	652.08	651.91	651.90	651.73	651.72	651.55	651.55	651.57	651.69	651.73	651.83	651.97	651.97	652.40	652.46
36+00		37+00		38+00		39+00		40+00													
USER NAME = bhartma		DESIGNED - CW		REVISED -																	
DRAWN - WJH		REVISED -																			
CHECKED - BDH		REVISED -																			
DATE -		REVISED -																			

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

**PLAN AND PROFILE**  
**GREENWOOD AVE /GOLF ROAD**

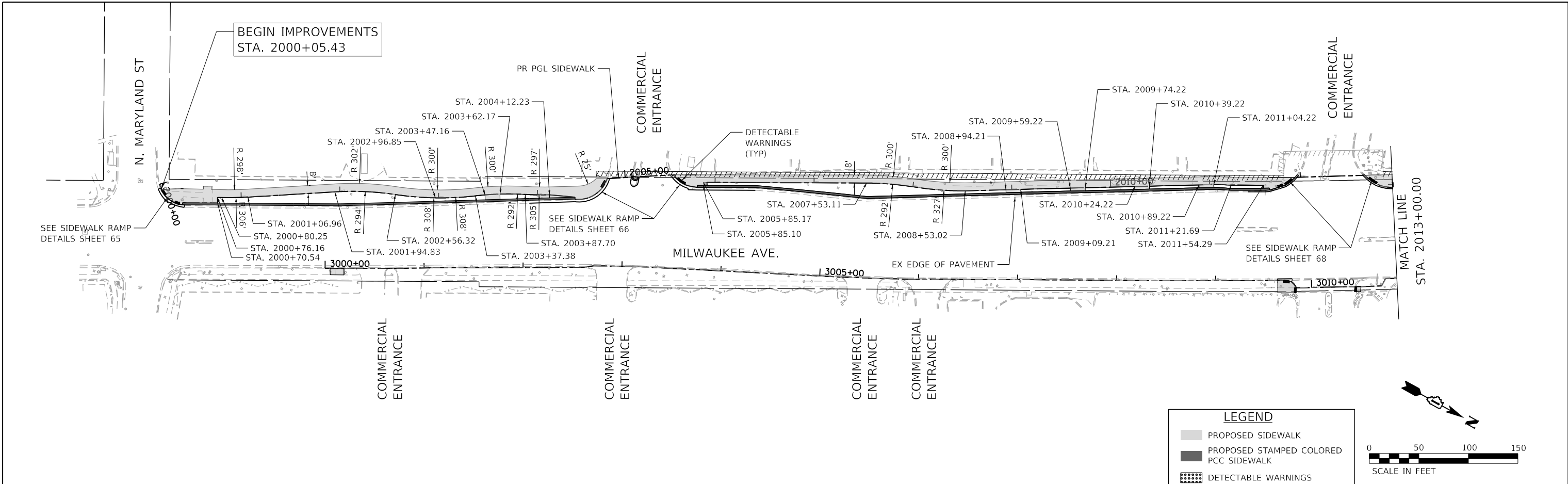
SCALE: 1"=50'    SHEET 5 OF 5 SHEETS    STA. 35+50 TO STA. 40+69.88

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	18-00131-00-SW	COOK	145	38
CONTRACT NO. 61174				
ILLINOIS		FED. AID PROJECT		

PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNED	
	CHECKED	
	FILED	
	BY	
	DATE	

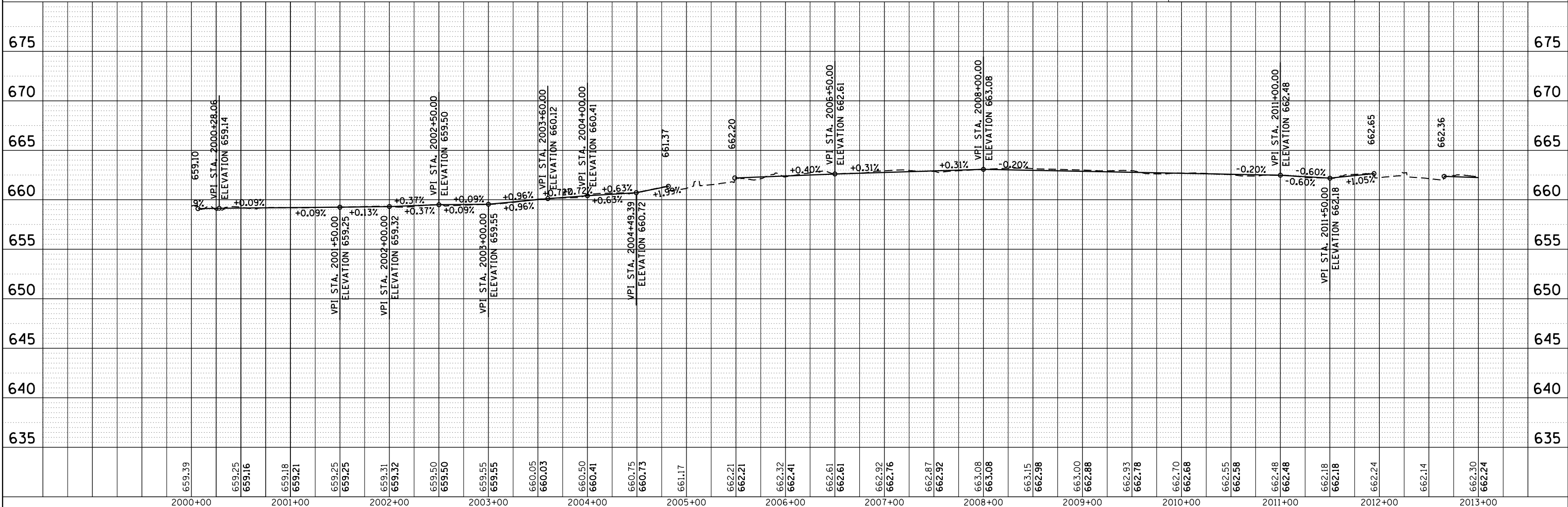
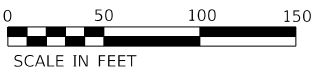
PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE	
	NOTATIONS CHECKED	
	BY	
	DATE	

HRG PROJECT NO. 200452  
 HRG PROJ. CONTACT:  
 FILE NAME: 200452-SW-PLAN-1.dgn  
 PEN TABLE: ptable.tbl



**LEGEND**

- PROPOSED SIDEWALK
- PROPOSED STAMPED COLORED PCC SIDEWALK
- DETECTABLE WARNINGS



2000+00	2001+00	2002+00	2003+00	2004+00	2005+00	2006+00	2007+00	2008+00	2009+00	2010+00	2011+00	2012+00	2013+00													
659.39	659.25 659.16	659.18 659.21	659.25 659.25	659.31 659.32	659.50 659.50	659.55 659.55	660.05 660.03	660.50 660.41	660.75 660.73	661.17	662.21 662.21	662.32 662.41	662.61 662.61	662.92 662.76	662.87 662.92	663.08 663.08	663.15 662.98	663.00 662.88	662.93 662.78	662.70 662.68	662.55 662.58	662.48 662.48	662.18 662.18	662.24	662.14	662.50 662.24

**HRGreen.com**  
 Micro Professional Design Firm  
 #184-001322

USER NAME = bhartma	DESIGNED - CW	REVISED -
	DRAWN - WJH	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED - BDH	REVISED -
PLOT DATE = 11/15/2023	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PLAN AND PROFILE  
 MILWAUKEE AVENUE**

SCALE: 1"=50'    SHEET 1 OF 4 SHEETS    STA. 1000+28.80 TO STA. 1009+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	18-00131-00-SW	COOK	145	39
				CONTRACT NO. 61174
ILLINOIS		FED. AID PROJECT		

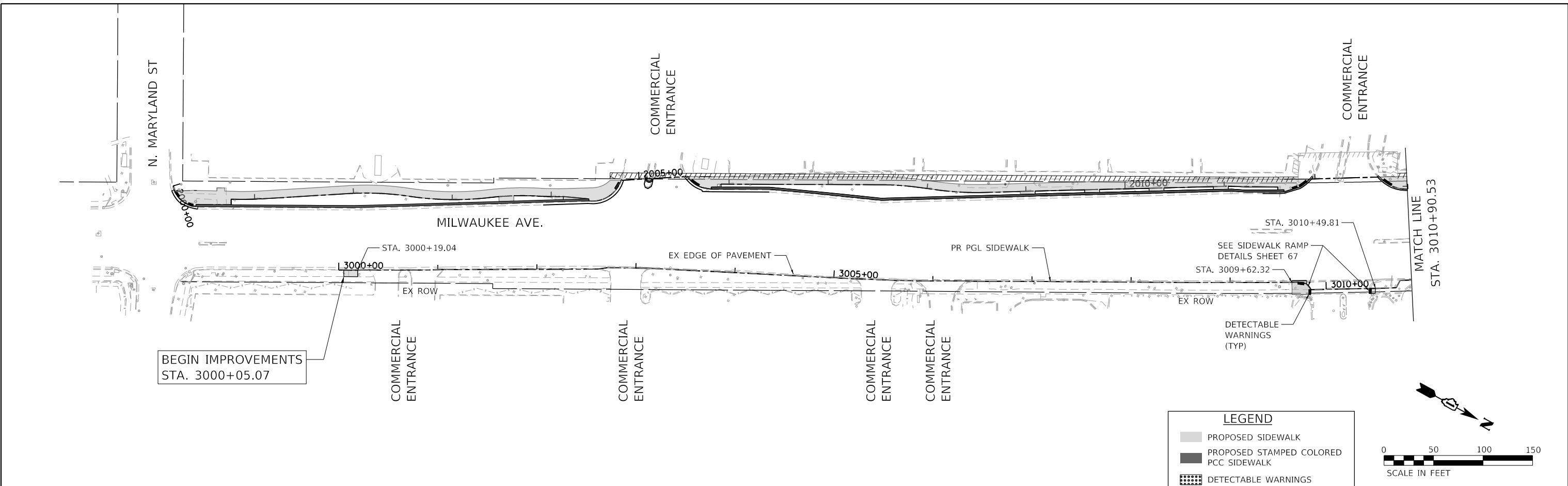




PLAN	SURVEYED	BY	DATE
	PLOTTED		
	ALIGNED		
	CHECKED		
	FILED		
	FILE NAME		
	NO.		

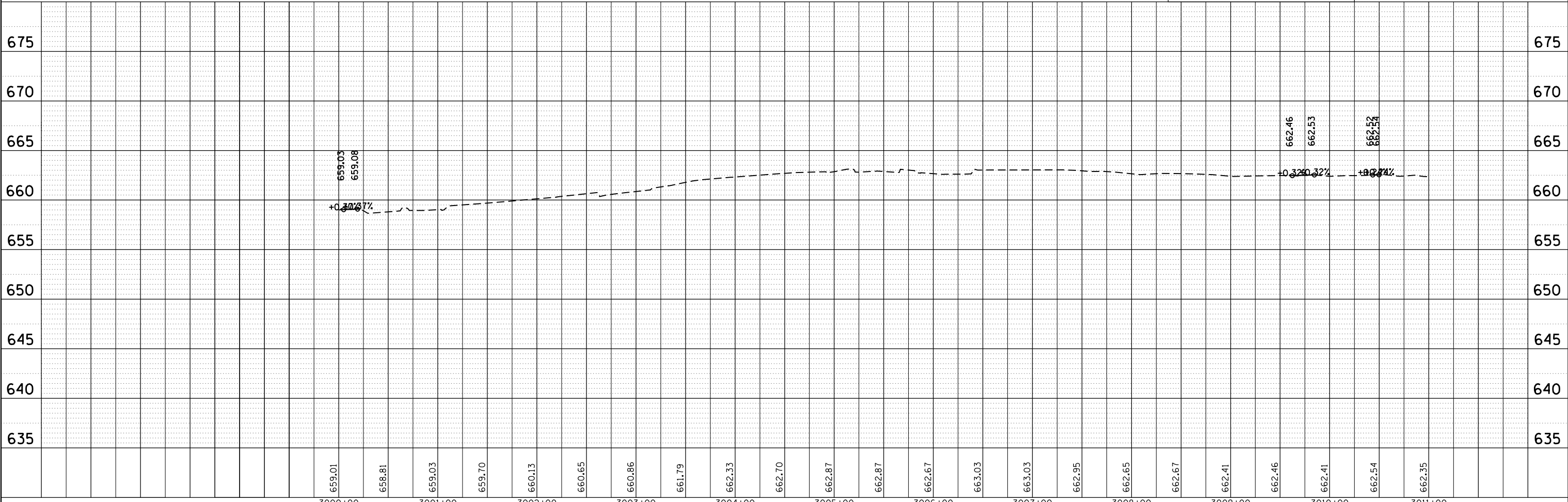
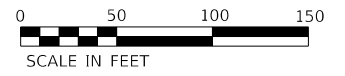
PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES		
	CHECKED		
	STRUCTURE		
	NOTATIONS		
	CHFD		
	NO.		

HRG PROJECT NO.: 200452  
 HRG PROJ. CONTACT:  
 FILE NAME: 200452-shr-p/par-f-mi-03.dgn  
 PEN TABLE: p/par/label.tbl



**LEGEND**

- PROPOSED SIDEWALK
- PROPOSED STAMPED COLORED PCC SIDEWALK
- DETECTABLE WARNINGS

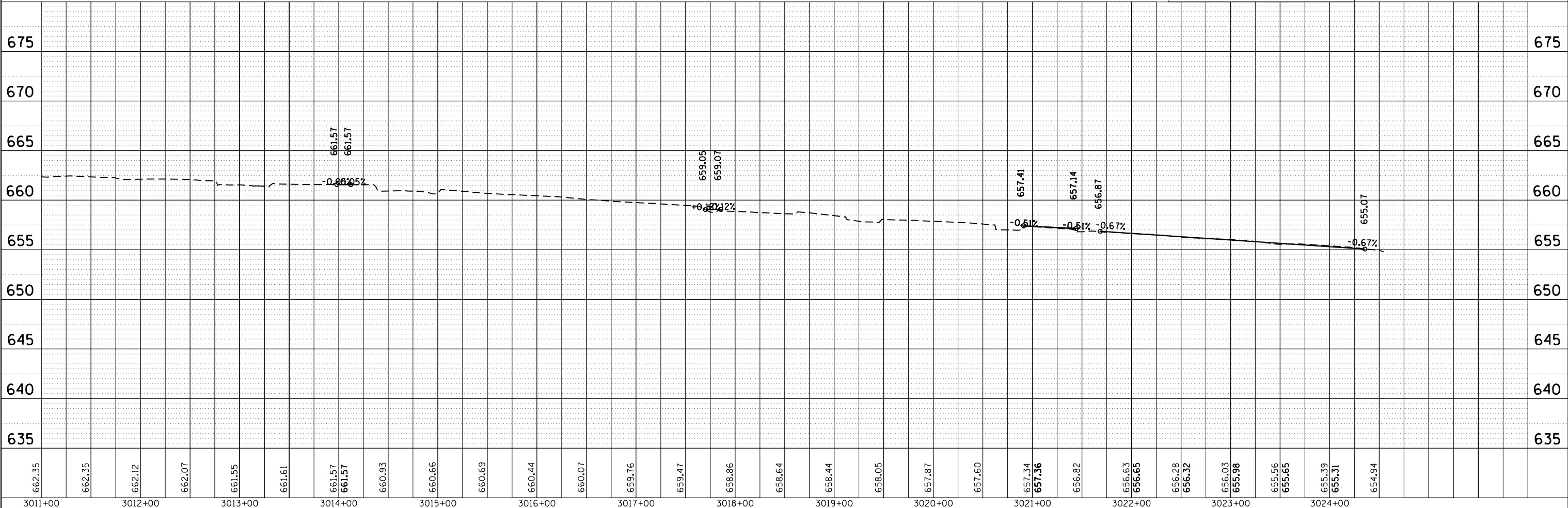
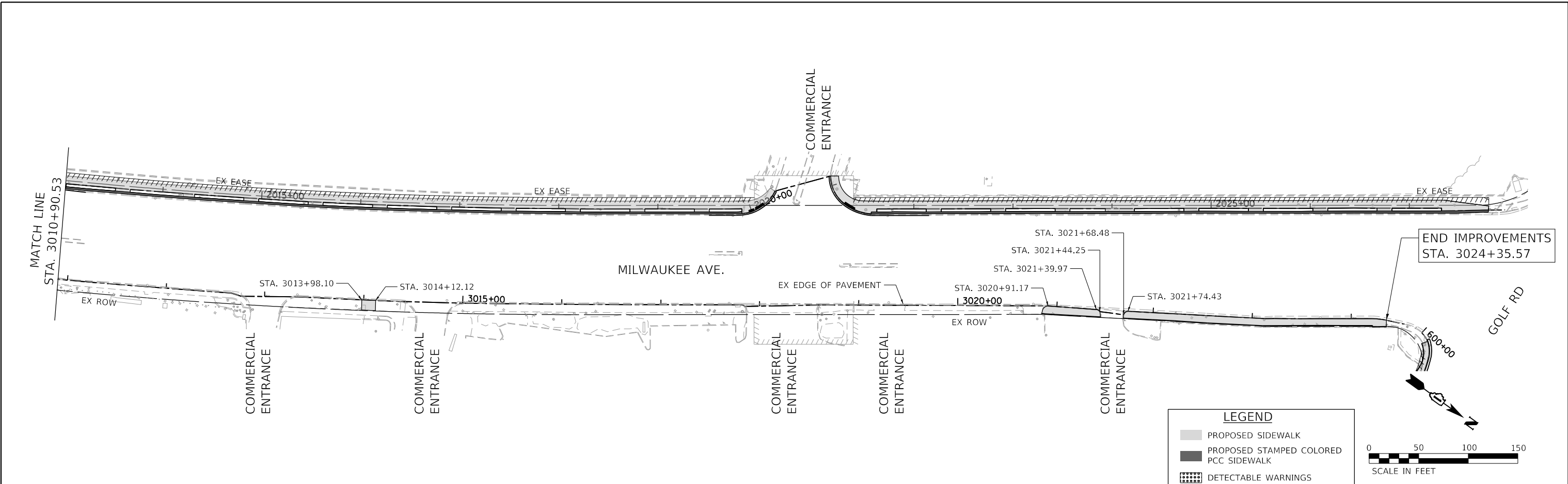


	USER NAME = bhartma DESIGNED - CW DRAWN - W/JH CHECKED - BDH DATE - 11/15/2023	REVISED - REVISED - REVISED - REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>PLAN AND PROFILE</b> <b>MILWAUKEE AVENUE</b>	F.A. RTE. VAR.	SECTION 18-00131-00-SW	COUNTY COOK	TOTAL SHEETS 145	SHEET NO. 41
	SCALE: 1"=50'    SHEET 3 OF 4 SHEETS    STA. 1000+28.80 TO STA. 1009+00				CONTRACT NO. 61174		ILLINOIS    FED. AID PROJECT		

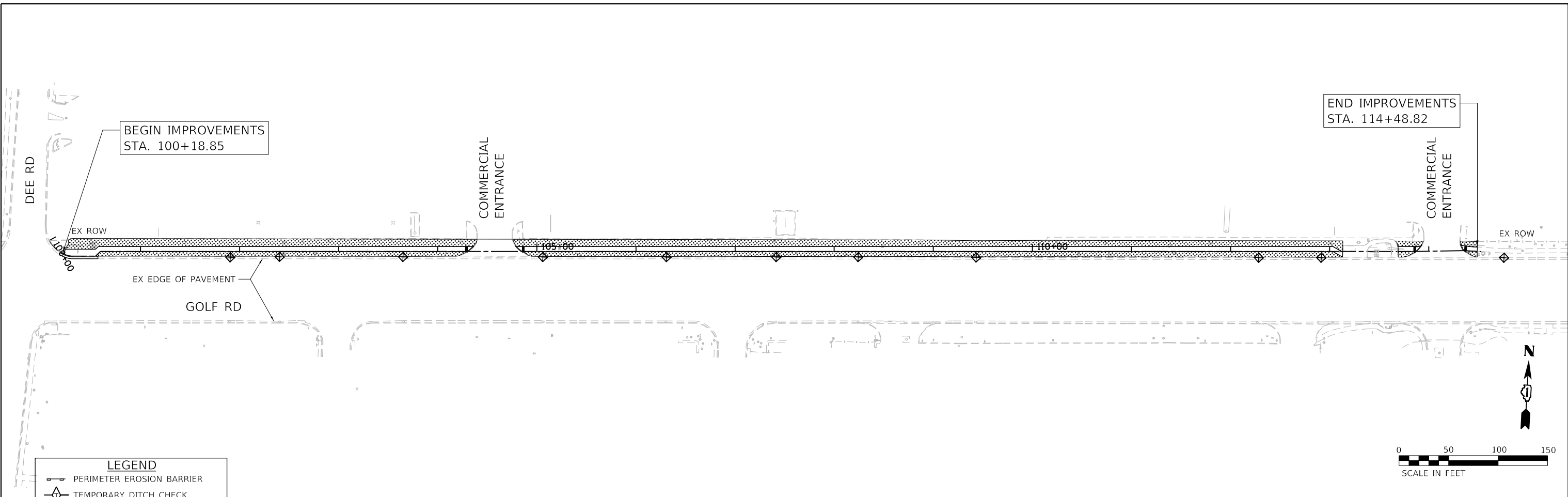
PLAN	SURVEYED	BY	DATE
	PIOTTED		
	ALIGNED		
	CHECKED		
	FILED		
	CARD FILE NAME		
	NO.		

PROFILE	SURVEYED	BY	DATE
	PIOTTED		
	GRADES CHECKED		
	STRUCTURE NOTATIONS CHECKED		
	NO.		

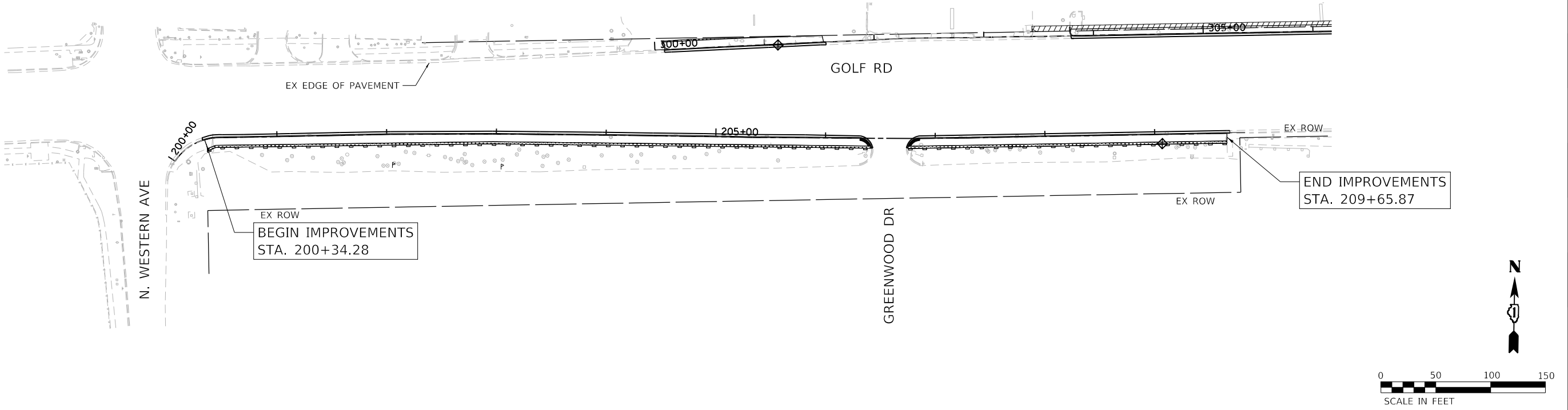
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 HRG PROJ. CONTACT:  
 FILE NAME: 200452-SW-PLAN-1-11-23.dgn  
 PEN TABLE: 11/15/2023



	USER NAME = bhartma PLOT SCALE = 100.0000' / in. PLOT DATE = 11/15/2023	DESIGNED - CW DRAWN - WJH CHECKED - BDH DATE -	REVISED - REVISED - REVISED - REVISED -	<b>STATE OF ILLINOIS          DEPARTMENT OF TRANSPORTATION</b>	<b>PLAN AND PROFILE          MILWAUKEE AVENUE</b>	F.A. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO. VAR. 18-00131-00-SW COOK 145 42	CONTRACT NO. 61174
	SCALE: 1"=50' SHEET 4 OF 4 SHEETS STA. 1000+28.80 TO STA. 1009+00	ILLINOIS FED. AID PROJECT					



LEGEND	
	PERIMETER EROSION BARRIER
	TEMPORARY DITCH CHECK
	INLET FILTERS
	SODDING, SALT TOLERANT



HRG PROJECT NO: 200452  
 HRG PROJ CONTACT:  
 FILE NAME: 200452-shr-eros-golf-01.dgn  
 PEN TABLE: 1/15/2023.tbl

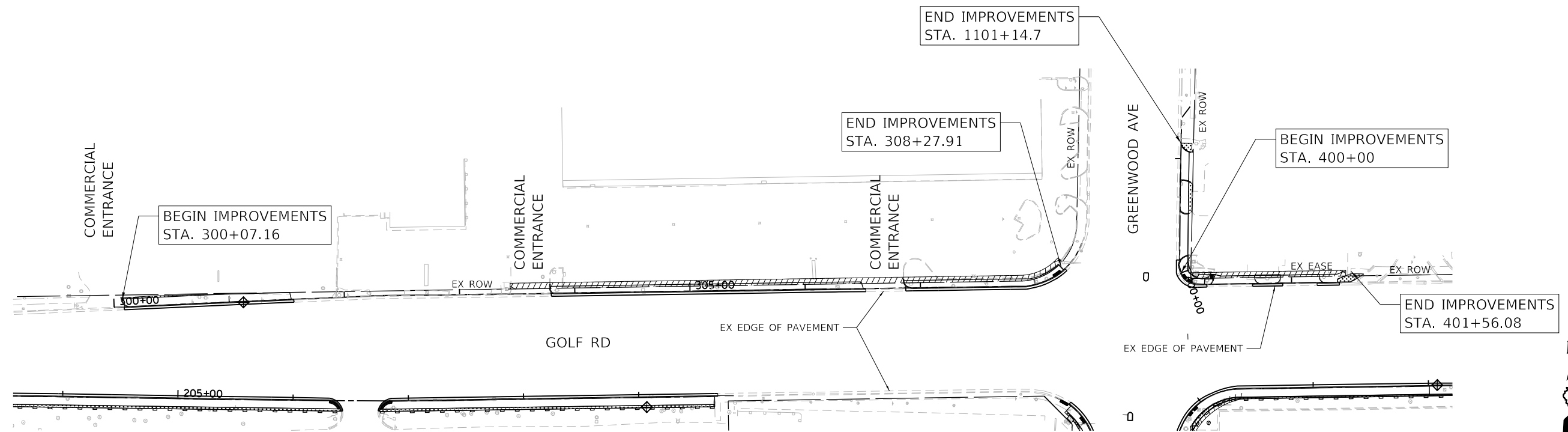


USER NAME = bhartma	DESIGNED - CW	REVISED -
	DRAWN - WJH	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED - BDH	REVISED -
PLOT DATE = 11/15/2023	DATE -	REVISED -

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

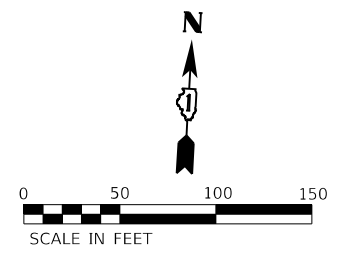
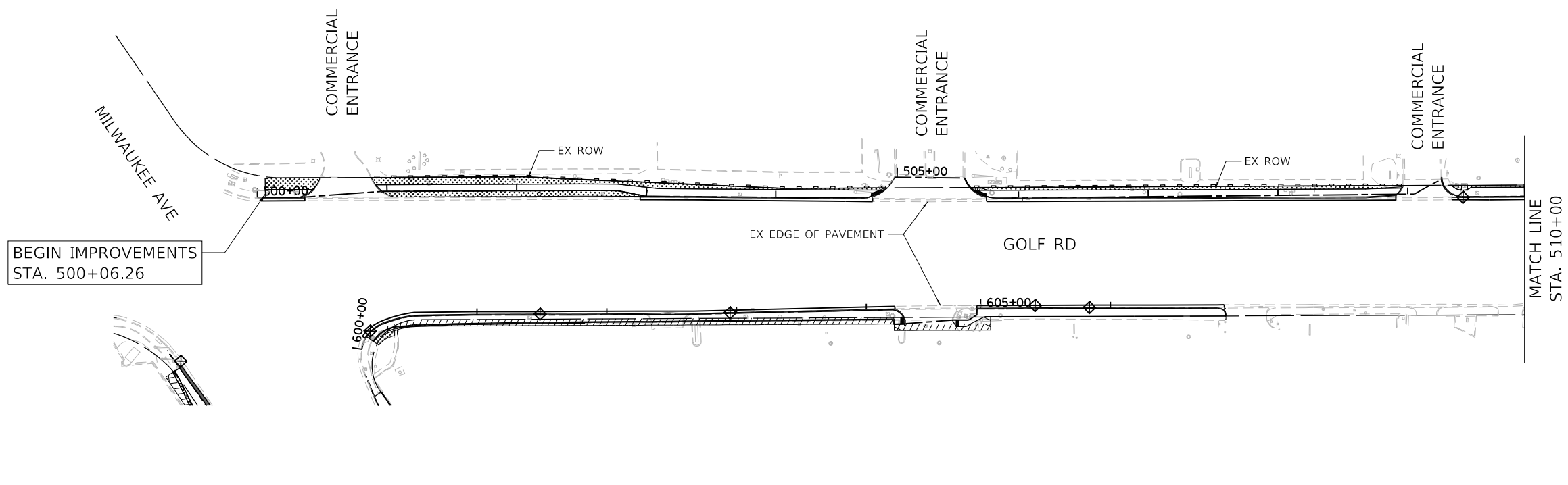
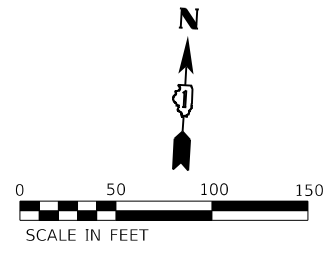
EROSION CONTROL AND LANDSCAPING PLAN			
GOLF ROAD			
SCALE: 1"=50'	SHEET 1 OF 5 SHEETS	STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	18-00131-00-SW	COOK	145	43
			CONTRACT NO. 61174	
ILLINOIS FED. AID PROJECT				



**LEGEND**

- PERIMETER EROSION BARRIER
- TEMPORARY DITCH CHECK
- INLET FILTERS
- SODDING, SALT TOLERANT



HRG PROJECT NO: 200452  
 HRG PROJ CONTACT:  
 FILE NAME: 200452-shr-eros-02.dgn  
 PEN TABLE: penTable.tbl

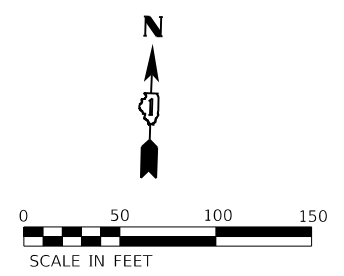
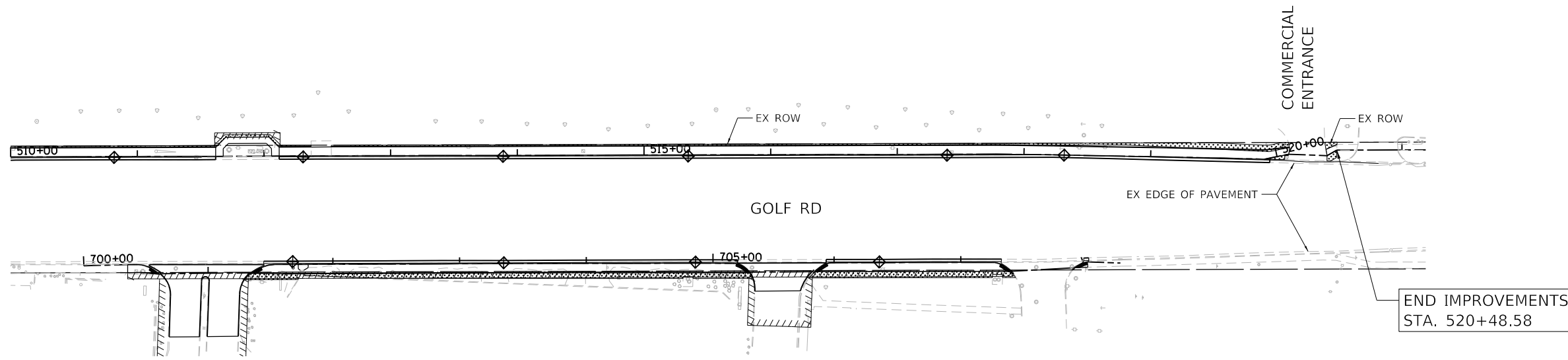


USER NAME = bhartma	DESIGNED - CW	REVISED -
	DRAWN - W/JH	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED - BDH	REVISED -
PLOT DATE = 11/15/2023	DATE -	REVISED -

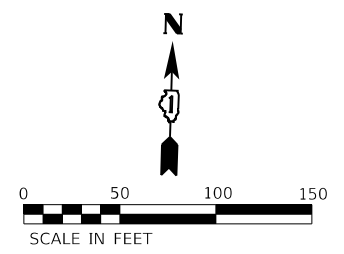
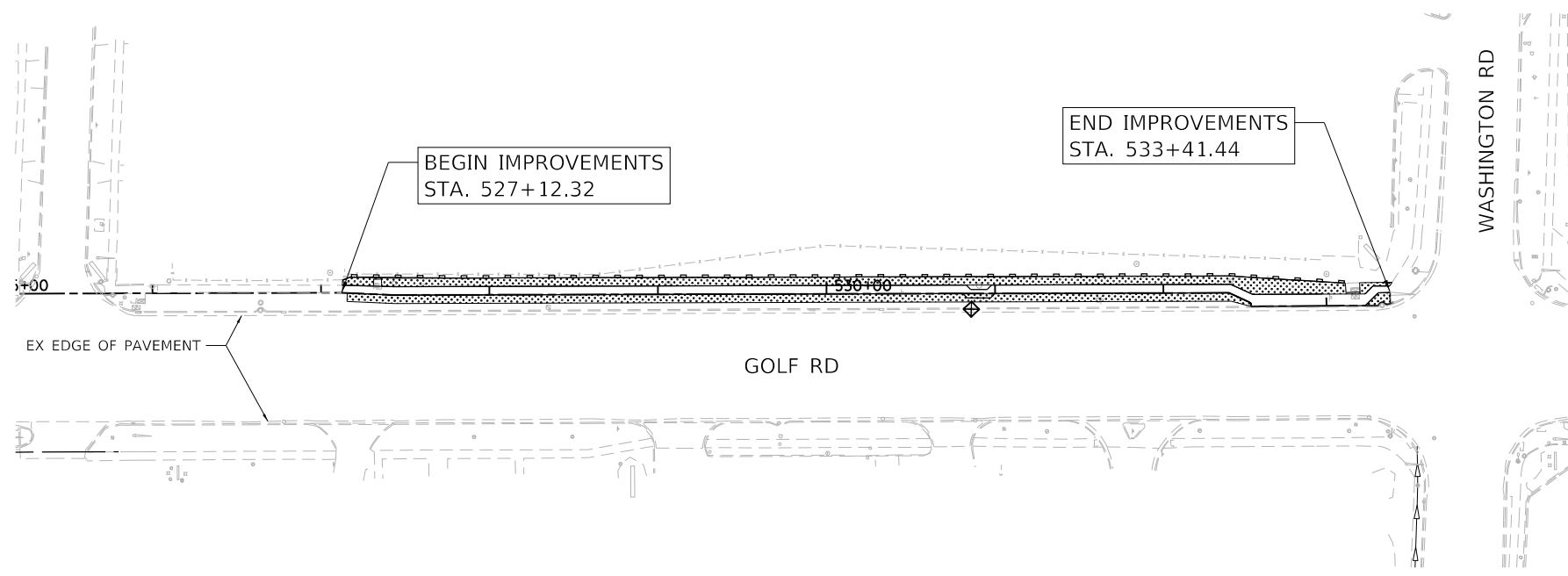
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>EROSION CONTROL AND LANDSCAPING PLAN</b>		
<b>GOLF ROAD</b>		
SCALE: 1"=50'	SHEET 2 OF 5 SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	18-00131-00-SW	COOK	145	44
CONTRACT NO. 61174			ILLINOIS FED. AID PROJECT	



LEGEND	
	PERIMETER EROSION BARRIER
	TEMPORARY DITCH CHECK
	INLET FILTERS
	SODDING, SALT TOLERANT



HRG PROJECT NO: 200452  
 HRG PROJ CONTACT:  
 FILE NAME: 200452-shr-eros-golf-03.dgn  
 PEN TABLE: 1/10/2023

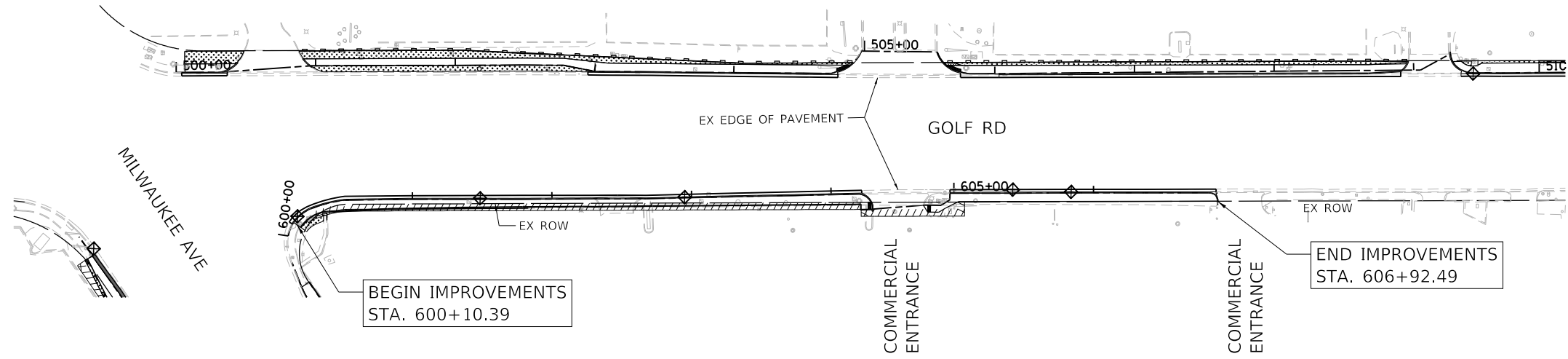


USER NAME = bhartma	DESIGNED - CW	REVISED -
	DRAWN - W/JH	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED - BDH	REVISED -
PLOT DATE = 11/15/2023	DATE -	REVISED -

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

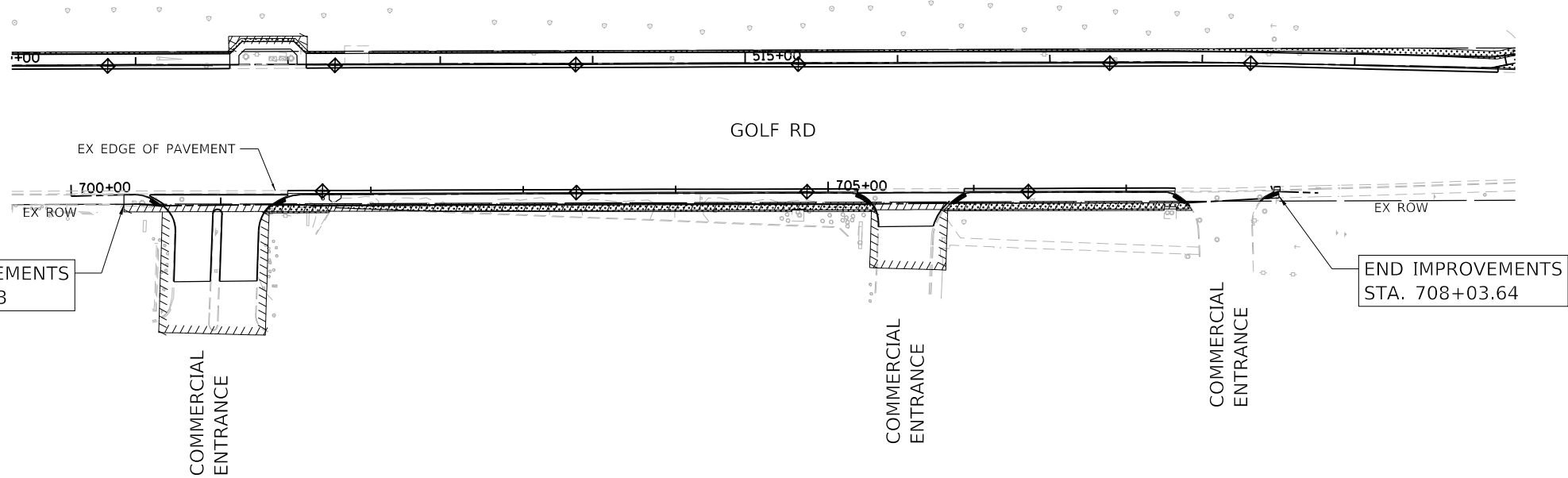
EROSION CONTROL AND LANDSCAPING PLAN			
GOLF ROAD			
SCALE: 1"=50'	SHEET 3 OF 5 SHEETS	STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	18-00131-00-SW	COOK	145	45
			CONTRACT NO. 61174	
ILLINOIS FED. AID PROJECT				



**LEGEND**

- PERIMETER EROSION BARRIER
- TEMPORARY DITCH CHECK
- INLET FILTERS
- SODDING, SALT TOLERANT



HRG PROJECT NO: 200452  
 HRG PROJ CONTACT:  
 FILE NAME: 200452-SHT-eros-Golf-04.dgn  
 PEN TABLE: 1/10/2023

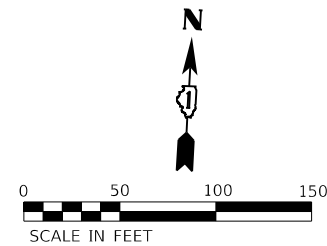
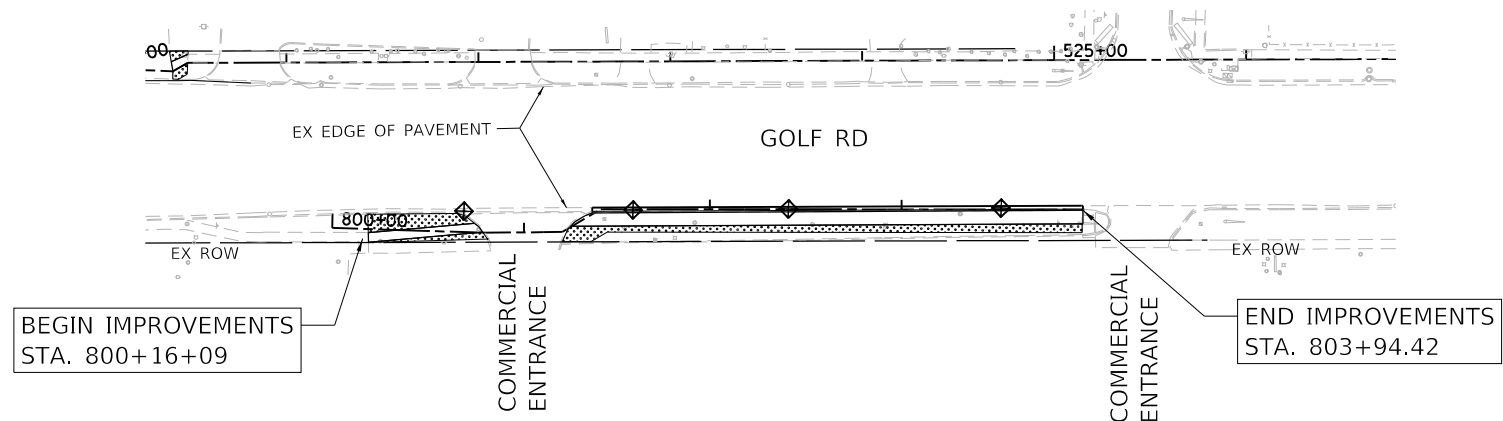


USER NAME = bhartma	DESIGNED - CW	REVISED -
	DRAWN - W/JH	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED - BDH	REVISED -
PLOT DATE = 11/15/2023	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>EROSION CONTROL AND LANDSCAPING PLAN</b>			
<b>GOLF ROAD</b>			
SCALE: 1"=50'	SHEET 4 OF 5 SHEETS	STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	18-00131-00-SW	COOK	145	46
CONTRACT NO. 61174				
ILLINOIS FED. AID PROJECT				



LEGEND	
	PERIMETER EROSION BARRIER
	TEMPORARY DITCH CHECK
	INLET FILTERS
	SODDING, SALT TOLERANT

HRG PROJECT NO.: 200452  
 HRG PROJ. CONTACT:  
 FILE NAME: 200452-SHT-eros-Golf-05.dgn  
 PEN TABLE: 1/15/2023



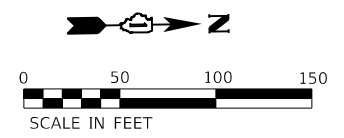
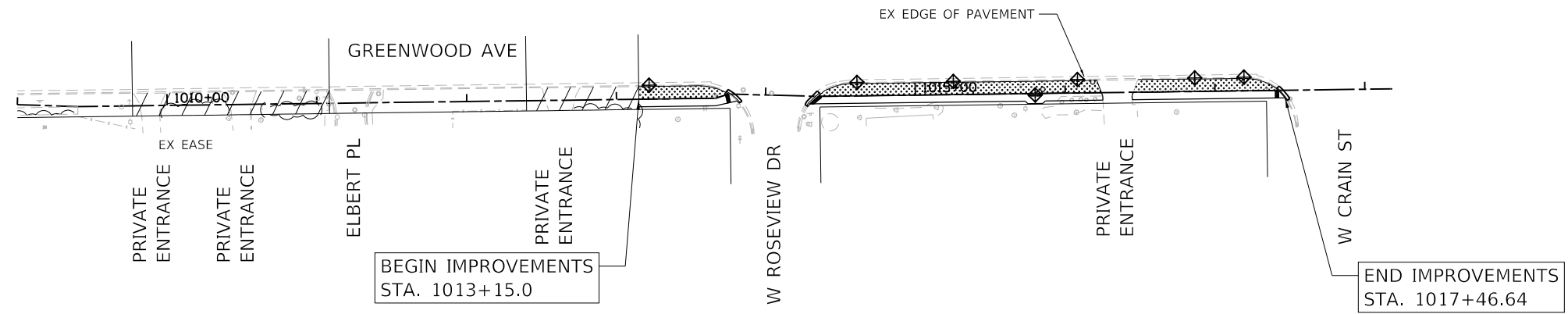
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	DRAWN - WJH	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED - BDH	REVISED -
PLOT DATE = 11/15/2023	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EROSION CONTROL AND LANDSCAPING PLAN  
GOLF ROAD**

SCALE: 1"=50'    SHEET 5 OF 5 SHEETS    STA.    TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	18-00131-00-SW	COOK	145	47
CONTRACT NO. 61174			ILLINOIS FED. AID PROJECT	



LEGEND	
	PERIMETER EROSION BARRIER
	TEMPORARY DITCH CHECK
	INLET FILTERS
	SODDING, SALT TOLERANT

HRG PROJECT NO.: 200452  
 HRG PROJ. CONTACT:  
 FILE NAME: 200452-SHT-eros-grnw-01.dgn  
 PLOT DATE: 11/15/2023  
 PEN TABLE: plot.tbl



USER NAME = bhartma	DESIGNED - CW	REVISED -
	DRAWN - WJH	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED - BDH	REVISED -
PLOT DATE = 11/15/2023	DATE -	REVISED -

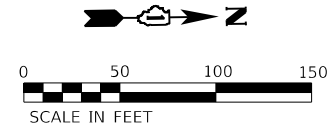
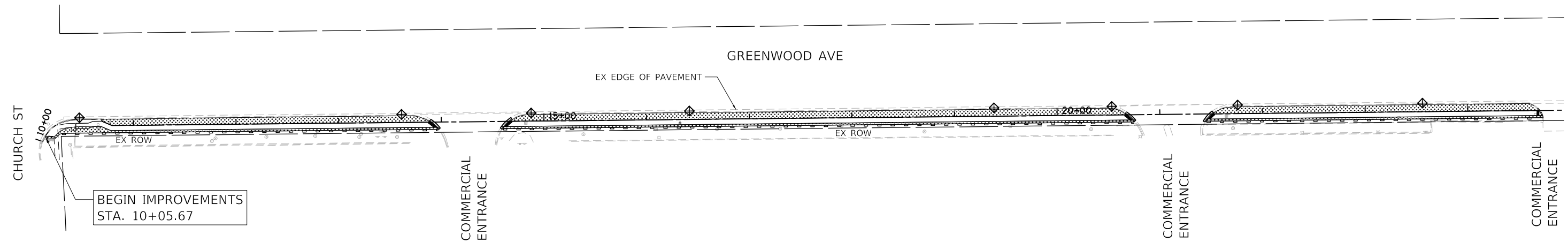
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**EROSION CONTROL AND LANDSCAPING PLAN**  
**GREENWOOD AVENUE**

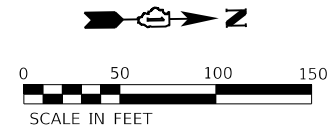
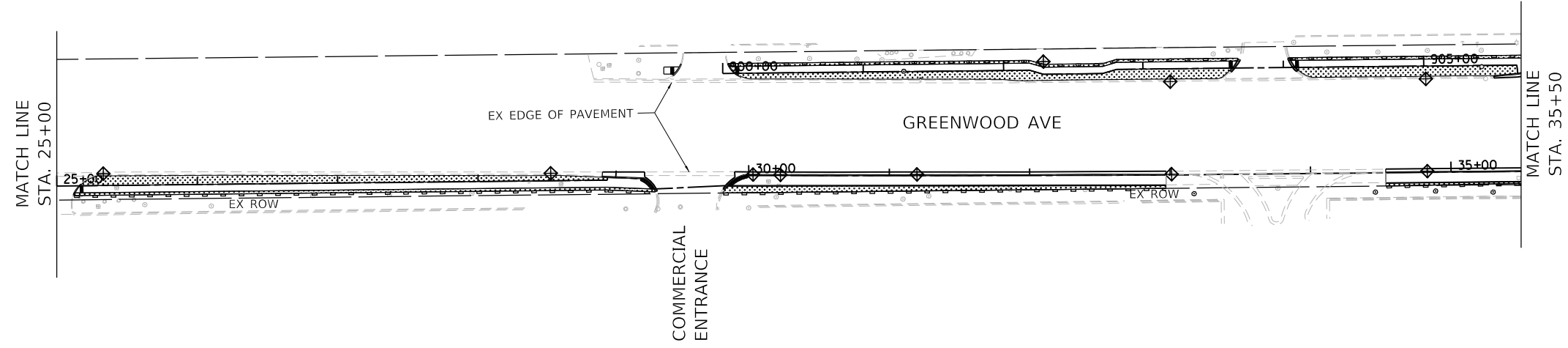
SCALE: 1"=50'    SHEET 1 OF 3 SHEETS    STA.    TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	18-00131-00-SW	COOK	145	48
CONTRACT NO.			61174	
ILLINOIS FED. AID PROJECT				





LEGEND	
	PERIMETER EROSION BARRIER
	TEMPORARY DITCH CHECK
	INLET FILTERS
	SODDING, SALT TOLERANT



HRG PROJECT NO.: 200452  
 HRG PROJ. CONTACT:  
 FILE NAME: 200452-sht-eros-grnw-02.dgn  
 PEN TABLE: 1/15/2023



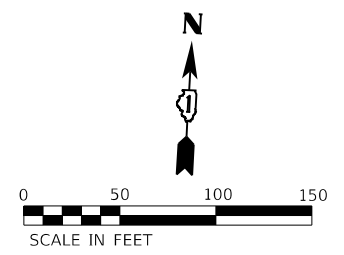
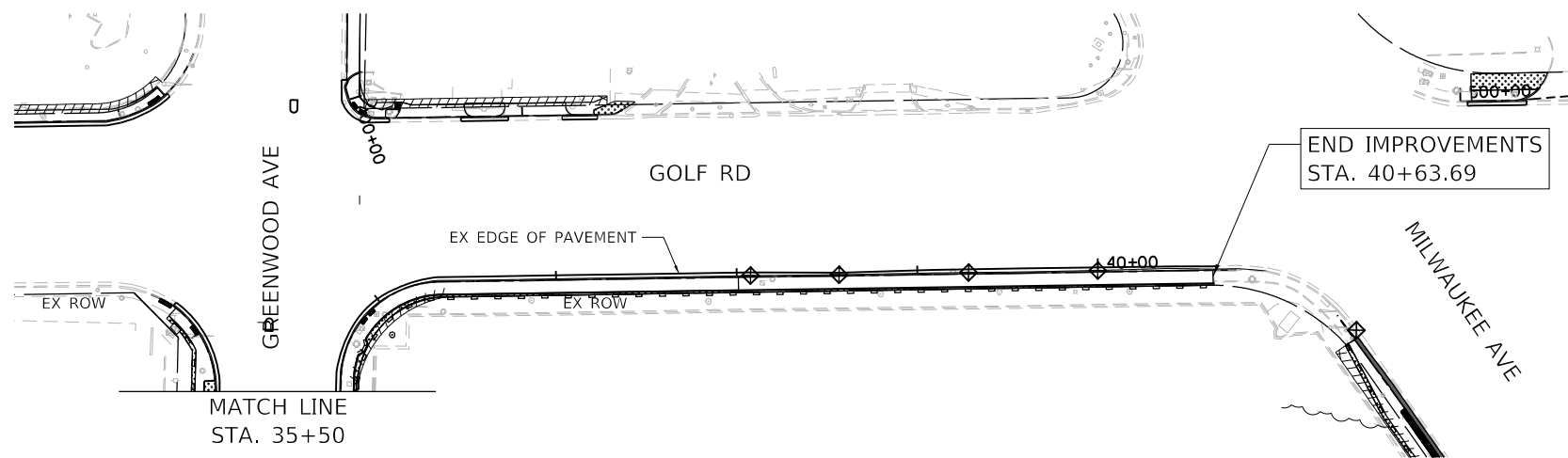
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	DRAWN - W/JH	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED - BDH	REVISED -
PLOT DATE = 11/15/2023	DATE -	REVISED -

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

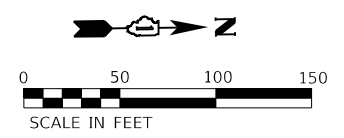
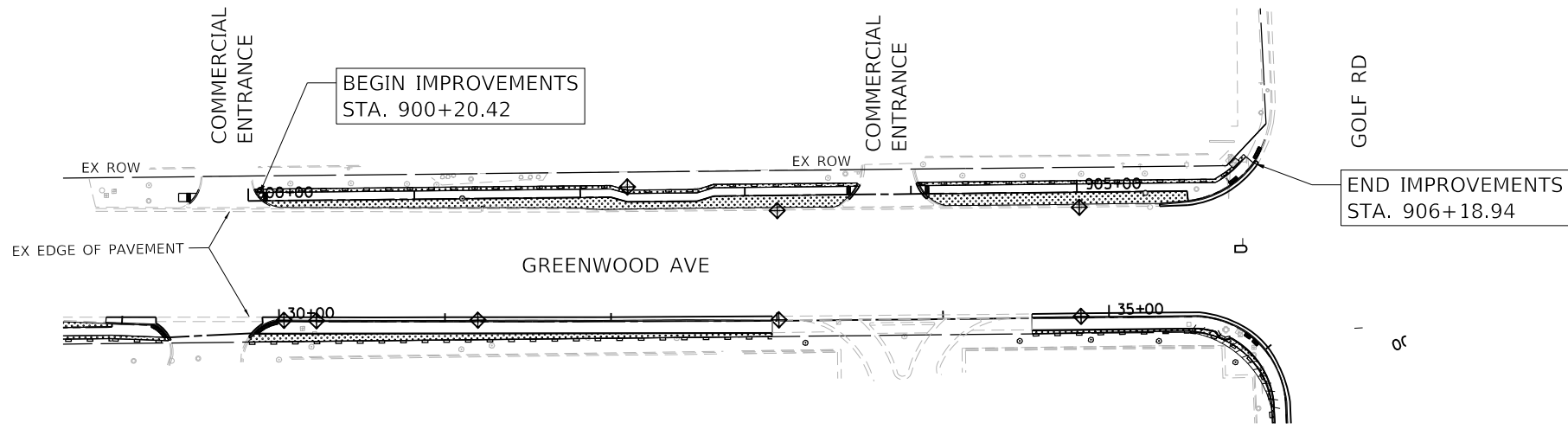
**EROSION CONTROL AND LANDSCAPING PLAN**  
**GREENWOOD AVENUE**

SCALE: 1"=50'    SHEET 2 OF 3 SHEETS    STA.    TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	18-00131-00-SW	COOK	145	49
CONTRACT NO. 61174				
ILLINOIS FED. AID PROJECT				



LEGEND	
	PERIMETER EROSION BARRIER
	TEMPORARY DITCH CHECK
	INLET FILTERS
	SODDING, SALT TOLERANT



HRG PROJECT NO: 200452  
 HRG PROJ CONTACT:  
 FILE NAME: 200452-SHT-eros-grnw-03.dgn  
 PEN TABLE: p101tbl.tbl



USER NAME = bhartma	DESIGNED - CW	REVISED -
	DRAWN - WJH	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED - BDH	REVISED -
PLOT DATE = 11/15/2023	DATE -	REVISED -

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

EROSION CONTROL AND LANDSCAPING PLAN			
GREENWOOD AVENUE			
SCALE: 1"=50'	SHEET 3 OF 3 SHEETS	STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	18-00131-00-SW	COOK	145	50
				CONTRACT NO. 61174
ILLINOIS FED. AID PROJECT				

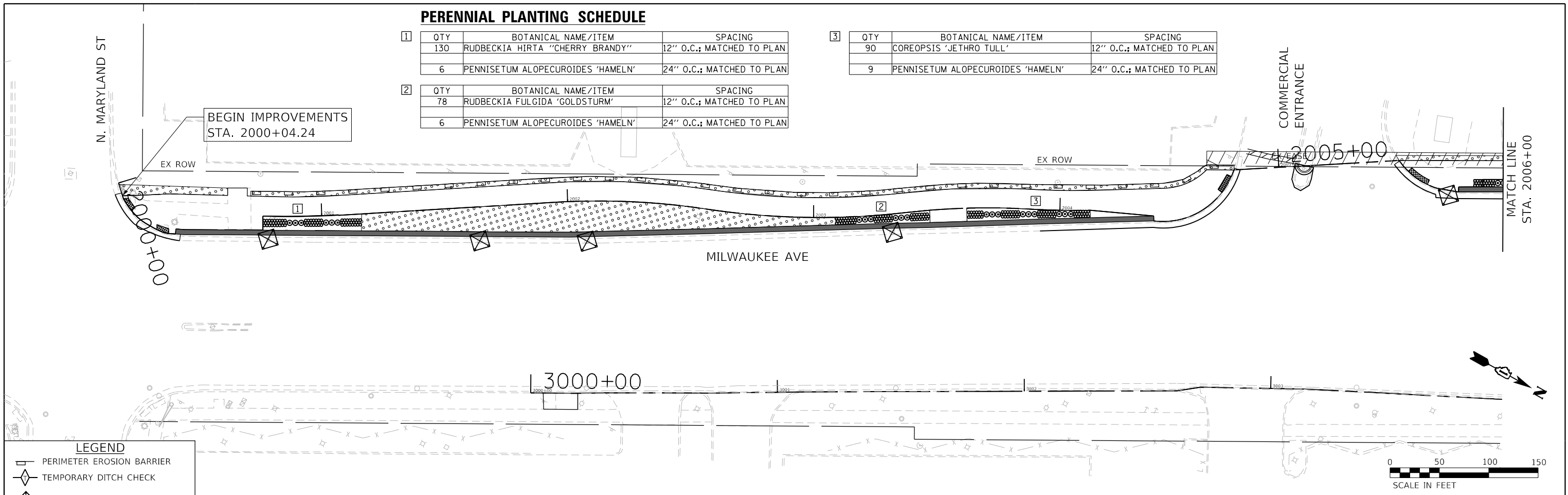
**PERENNIAL PLANTING SCHEDULE**

QTY	BOTANICAL NAME/ITEM	SPACING
130	RUDBECKIA HIRTA "CHERRY BRANDY"	12" O.C.; MATCHED TO PLAN
6	PENNISETUM ALOPECUROIDES 'HAMELN'	24" O.C.; MATCHED TO PLAN

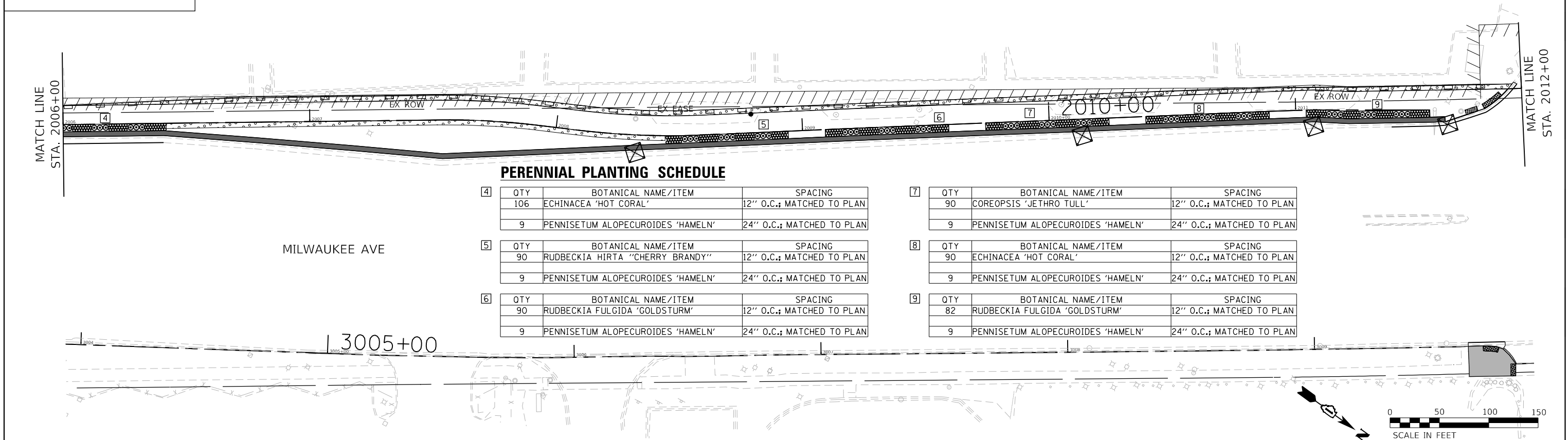
QTY	BOTANICAL NAME/ITEM	SPACING
78	RUDBECKIA FULGIDA 'GOLDSTURM'	12" O.C.; MATCHED TO PLAN
6	PENNISETUM ALOPECUROIDES 'HAMELN'	24" O.C.; MATCHED TO PLAN

QTY	BOTANICAL NAME/ITEM	SPACING
90	COREOPSIS 'JETHRO TULL'	12" O.C.; MATCHED TO PLAN
9	PENNISETUM ALOPECUROIDES 'HAMELN'	24" O.C.; MATCHED TO PLAN



**LEGEND**

- PERIMETER EROSION BARRIER
- TEMPORARY DITCH CHECK
- INLET FILTERS
- SODDING, SALT TOLERANT



**PERENNIAL PLANTING SCHEDULE**

QTY	BOTANICAL NAME/ITEM	SPACING
106	ECHINACEA 'HOT CORAL'	12" O.C.; MATCHED TO PLAN
9	PENNISETUM ALOPECUROIDES 'HAMELN'	24" O.C.; MATCHED TO PLAN

QTY	BOTANICAL NAME/ITEM	SPACING
90	RUDBECKIA HIRTA "CHERRY BRANDY"	12" O.C.; MATCHED TO PLAN
9	PENNISETUM ALOPECUROIDES 'HAMELN'	24" O.C.; MATCHED TO PLAN

QTY	BOTANICAL NAME/ITEM	SPACING
90	RUDBECKIA FULGIDA 'GOLDSTURM'	12" O.C.; MATCHED TO PLAN
9	PENNISETUM ALOPECUROIDES 'HAMELN'	24" O.C.; MATCHED TO PLAN

QTY	BOTANICAL NAME/ITEM	SPACING
90	COREOPSIS 'JETHRO TULL'	12" O.C.; MATCHED TO PLAN
9	PENNISETUM ALOPECUROIDES 'HAMELN'	24" O.C.; MATCHED TO PLAN

QTY	BOTANICAL NAME/ITEM	SPACING
90	ECHINACEA 'HOT CORAL'	12" O.C.; MATCHED TO PLAN
9	PENNISETUM ALOPECUROIDES 'HAMELN'	24" O.C.; MATCHED TO PLAN

QTY	BOTANICAL NAME/ITEM	SPACING
82	RUDBECKIA FULGIDA 'GOLDSTURM'	12" O.C.; MATCHED TO PLAN
9	PENNISETUM ALOPECUROIDES 'HAMELN'	24" O.C.; MATCHED TO PLAN

HRG PROJECT No: 200452  
 HRG PROJ CONTACT:  
 FILE NAME: 200452-SHT-INDSCP-MI-0.dgn  
 PEN TABLE: 18-00131.tbl



USER NAME = bhartma  
 DESIGNED - CW  
 DRAWN - WJH  
 PLOT SCALE = 40.0000' / in.  
 PLOT DATE = 11/15/2023

REVISIONS:  
 REVISIONS -  
 REVISIONS -  
 REVISIONS -  
 REVISIONS -

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

**EROSION CONTROL AND LANDSCAPING PLAN**  
**MILWAUKEE AVENUE**

SCALE: 1"=50'    SHEET 1 OF 3 SHEETS    STA.    TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	18-00131-00-SW	COOK	145	51

CONTRACT NO. 61174

ILLINOIS FED. AID PROJECT

MATCH LINE  
STA. 2012+00

COMMERCIAL  
ENTRANCE

MATCH LINE  
STA. 2017+50

**PERENNIAL PLANTING SCHEDULE**

1	QTY	BOTANICAL NAME/ITEM	SPACING
	90	RUDBECKIA HIRTA "CHERRY BRANDY"	12" O.C.; MATCHED TO PLAN
	9	PENNISETUM ALOPECUROIDES 'HAMELN'	24" O.C.; MATCHED TO PLAN

2	QTY	BOTANICAL NAME/ITEM	SPACING
	90	RUDBECKIA FULGIDA 'GOLDSTURM'	12" O.C.; MATCHED TO PLAN
	9	PENNISETUM ALOPECUROIDES 'HAMELN'	24" O.C.; MATCHED TO PLAN

3	QTY	BOTANICAL NAME/ITEM	SPACING
	90	COREOPSIS 'JETHRO TULL'	12" O.C.; MATCHED TO PLAN
	9	PENNISETUM ALOPECUROIDES 'HAMELN'	24" O.C.; MATCHED TO PLAN

4	QTY	BOTANICAL NAME/ITEM	SPACING
	90	ECHINACEA 'HOT CORAL'	12" O.C.; MATCHED TO PLAN
	9	PENNISETUM ALOPECUROIDES 'HAMELN'	24" O.C.; MATCHED TO PLAN

5	QTY	BOTANICAL NAME/ITEM	SPACING
	90	RUDBECKIA HIRTA "CHERRY BRANDY"	12" O.C.; MATCHED TO PLAN
	9	PENNISETUM ALOPECUROIDES 'HAMELN'	24" O.C.; MATCHED TO PLAN

6	QTY	BOTANICAL NAME/ITEM	SPACING
	90	RUDBECKIA FULGIDA 'GOLDSTURM'	12" O.C.; MATCHED TO PLAN
	9	PENNISETUM ALOPECUROIDES 'HAMELN'	24" O.C.; MATCHED TO PLAN

7	QTY	BOTANICAL NAME/ITEM	SPACING
	90	COREOPSIS 'JETHRO TULL'	12" O.C.; MATCHED TO PLAN
	9	PENNISETUM ALOPECUROIDES 'HAMELN'	24" O.C.; MATCHED TO PLAN

**LEGEND**

- PERIMETER EROSION BARRIER
- TEMPORARY DITCH CHECK
- INLET FILTERS
- SODDING, SALT TOLERANT

MATCH LINE  
STA. 2017+50

COMMERCIAL  
ENTRANCE

MATCH LINE  
STA. 2023+00

**PERENNIAL PLANTING SCHEDULE**

8	QTY	BOTANICAL NAME/ITEM	SPACING
	90	ECHINACEA 'HOT CORAL'	12" O.C.; MATCHED TO PLAN
	9	PENNISETUM ALOPECUROIDES 'HAMELN'	24" O.C.; MATCHED TO PLAN

9	QTY	BOTANICAL NAME/ITEM	SPACING
	90	RUDBECKIA HIRTA "CHERRY BRANDY"	12" O.C.; MATCHED TO PLAN
	9	PENNISETUM ALOPECUROIDES 'HAMELN'	24" O.C.; MATCHED TO PLAN

10	QTY	BOTANICAL NAME/ITEM	SPACING
	90	RUDBECKIA FULGIDA 'GOLDSTURM'	12" O.C.; MATCHED TO PLAN
	11	PENNISETUM ALOPECUROIDES 'HAMELN'	24" O.C.; MATCHED TO PLAN

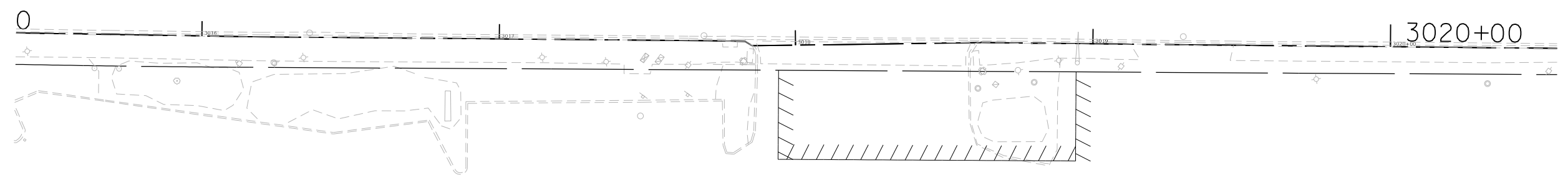
11	QTY	BOTANICAL NAME/ITEM	SPACING
	59	COREOPSIS 'JETHRO TULL'	12" O.C.; MATCHED TO PLAN
	6	PENNISETUM ALOPECUROIDES 'HAMELN'	24" O.C.; MATCHED TO PLAN

12	QTY	BOTANICAL NAME/ITEM	SPACING
	90	ECHINACEA 'HOT CORAL'	12" O.C.; MATCHED TO PLAN
	9	PENNISETUM ALOPECUROIDES 'HAMELN'	24" O.C.; MATCHED TO PLAN

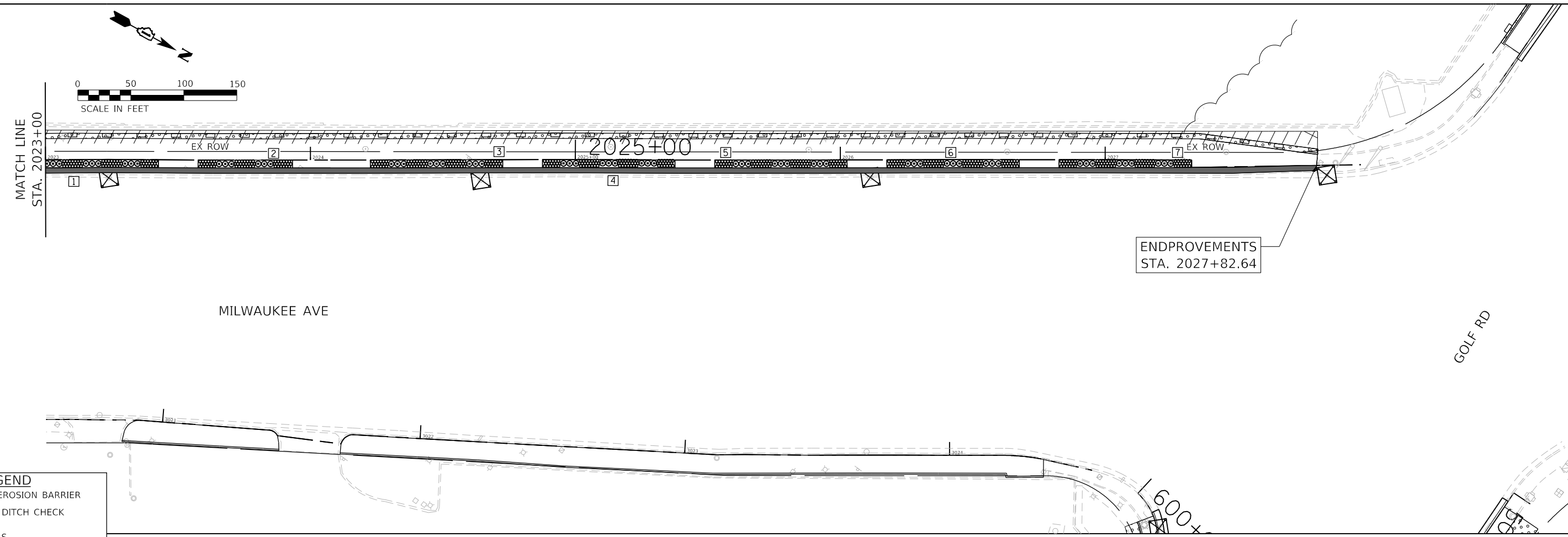
  

13	QTY	BOTANICAL NAME/ITEM	SPACING
	90	RUDBECKIA HIRTA "CHERRY BRANDY"	12" O.C.; MATCHED TO PLAN
	9	PENNISETUM ALOPECUROIDES 'HAMELN'	24" O.C.; MATCHED TO PLAN







HRG PROJECT NO.: 200452  
 HRG PROJ. CONTACT:  
 FILE NAME: 200452-sht-landsc-ml-02.dgn  
 PLOT DRIVER: L:\p\l\dw\plctg  
 PEN TABLE: plottable.tbl

	HRGreen.com Illinois Professional Design Firm # 184-001322	USER NAME = bhartma	DESIGNED - CW	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>EROSION CONTROL AND LANDSCAPING PLAN MILWAUKEE AVENUE</b>	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 40.2409' / in. PLOT DATE = 11/15/2023	DRAWN - WJH CHECKED - BDH DATE -	REVISED - REVISED - REVISED -	VAR.			18-00131-00-SW	COOK	145	52	CONTRACT NO. 61174
						SCALE: 1"=50'	SHEET 2 OF 3 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT	



**LEGEND**

-  PERIMETER EROSION BARRIER
-  TEMPORARY DITCH CHECK
-  INLET FILTERS
-  SODDING, SALT TOLERANT

**PERENNIAL PLANTING SCHEDULE**

CALLOUT	QTY	BOTANICAL NAME/ITEM	SPACING
1	90	RUDBECKIA HIRTA "CHERRY BRANDY"	12" O.C.; MATCHED TO PLAN
	9	PENNISETUM ALOPECUROIDES 'HAMELN'	24" O.C.; MATCHED TO PLAN
2	66	RUDBECKIA FULGIDA 'GOLDSTURM'	12" O.C.; MATCHED TO PLAN
	6	PENNISETUM ALOPECUROIDES 'HAMELN'	24" O.C.; MATCHED TO PLAN
3	90	COREOPSIS 'JETHRO TULL'	12" O.C.; MATCHED TO PLAN
	9	PENNISETUM ALOPECUROIDES 'HAMELN'	24" O.C.; MATCHED TO PLAN

CALLOUT	QTY	BOTANICAL NAME/ITEM	SPACING
4	90	ECHINACEA 'HOT CORAL'	12" O.C.; MATCHED TO PLAN
	9	PENNISETUM ALOPECUROIDES 'HAMELN'	24" O.C.; MATCHED TO PLAN
5	90	RUDBECKIA HIRTA "CHERRY BRANDY"	12" O.C.; MATCHED TO PLAN
	9	PENNISETUM ALOPECUROIDES 'HAMELN'	24" O.C.; MATCHED TO PLAN
6	90	RUDBECKIA FULGIDA 'GOLDSTURM'	12" O.C.; MATCHED TO PLAN
	9	PENNISETUM ALOPECUROIDES 'HAMELN'	24" O.C.; MATCHED TO PLAN

CALLOUT	QTY	BOTANICAL NAME/ITEM	SPACING
7	90	COREOPSIS 'JETHRO TULL'	12" O.C.; MATCHED TO PLAN
	9	PENNISETUM ALOPECUROIDES 'HAMELN'	24" O.C.; MATCHED TO PLAN

HRG PROJECT NO: 200452  
 HRG PROJ CONTACT:  
 FILE NAME: 200452-SHT-INDSCP-MW-03.dgn  
 PEN TABLE: 1/10/2023

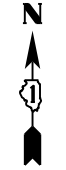


USER NAME = bhartma	DESIGNED - CW	REVISED -
PLOT SCALE = 40.0000' / in.	DRAWN - WJH	REVISED -
PLOT DATE = 11/15/2023	CHECKED - BDH	REVISED -
	DATE -	REVISED -

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

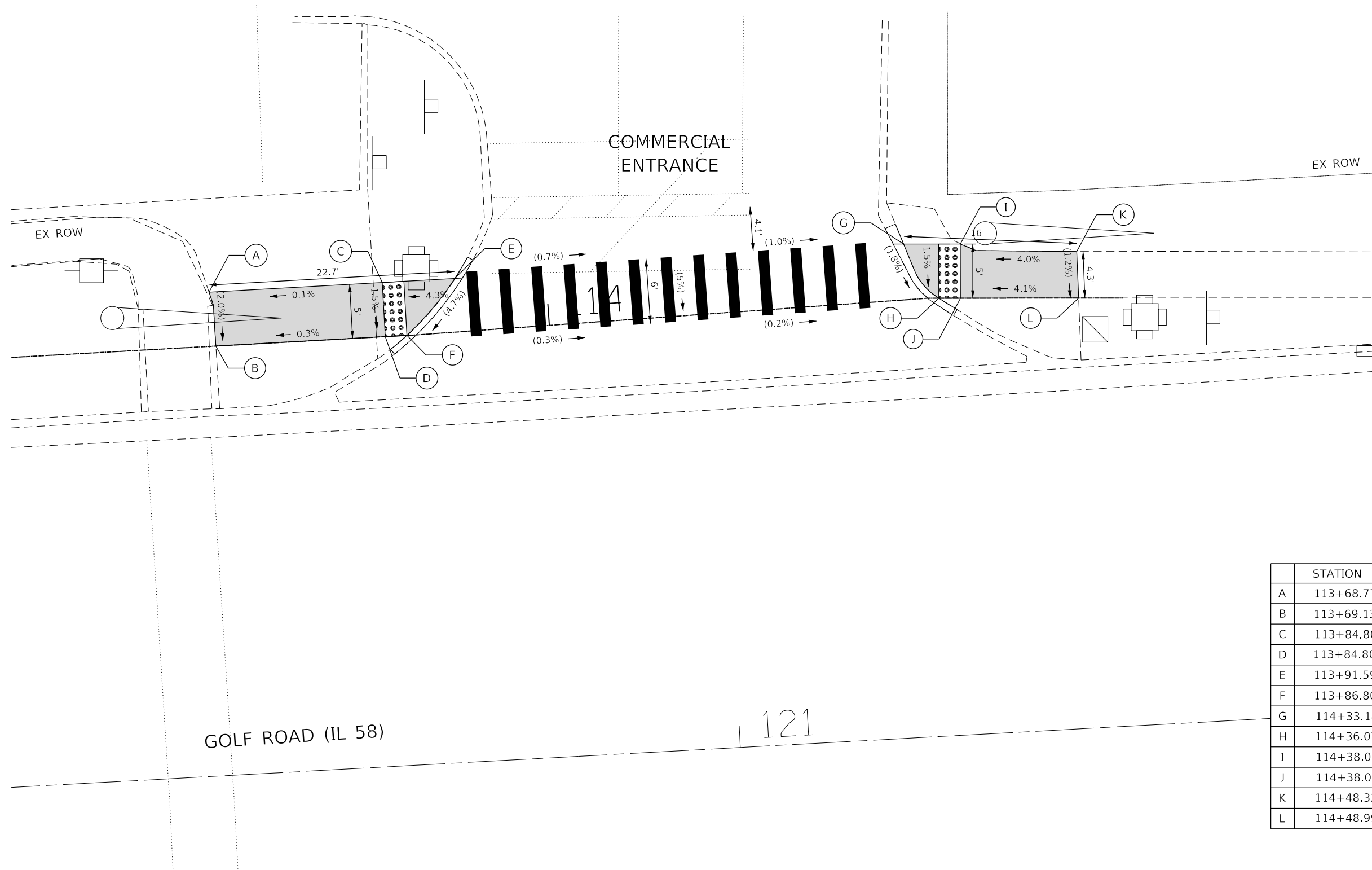
<b>EROSION CONTROL AND LANDSCAPING PLAN</b> <b>MILWAUKEE AVENUE</b>		
SCALE: 1"=50'	SHEET 2 OF 3 SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	18-00131-00-SW	COOK	145	53
			CONTRACT NO. 61174	
ILLINOIS FED. AID PROJECT				



PLAN	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	FILE NAME	
	FILE NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	FILE NAME	
	FILE NO.	



	STATION	OFFSET	ELEVATION
A	113+68.77	5.00 LT	(644.40)
B	113+69.13	0.00 RT	(644.30)
C	113+84.80	5.00 LT	644.42
D	113+84.80	0.00 RT	644.35
E	113+91.59	4.94 LT	(644.71)
F	113+86.80	0.00 RT	(644.39)
G	114+33.18	5.15 LT	(644.37)
H	114+36.07	0.00 LT	(644.26)
I	114+38.07	5.00 LT	644.37
J	114+38.07	0.00 LT	644.30
K	114+48.32	4.29 LT	(644.80)
L	114+48.99	0.00 LT	(644.75)

REFERENCE BENCHMARK ELEV 642.72  
 BENCHMARK : VILLAGE OF NILES SURVEY MONUMENT 24  
 LOCATION : NORTH PARKWAY GOLF ROAD, APPROXIMATELY 350' EAST OF DEE ROAD

**LEGEND**

xx.xx' EXISTING LENGTH

PROPOSED SIDE CURB

( ) EXISTING ELEVATION/SLOPE

PROPOSED SIDEWALK

DETECTABLE WARNINGS

HRG PROJECT NO.: 200462  
 HRG PROJ. CONTACT: 200462-shr-ramps-golf-01.dgn  
 FILE NAME: 200462-shr-ramps-golf-01.dgn  
 PEN TABLE:



USER NAME = bhartna	DESIGNED - CW	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 10.0000' / in.	CHECKED - BDH	REVISED -
PLOT DATE = 11/15/2023	DATE -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SIDEWALK RAMP DETAILS			
GOLF ROAD AT GOLF GLEN MART			
SCALE: 1"=20'	SHEET 1 OF 17 SHEETS	STA.	TO STA.

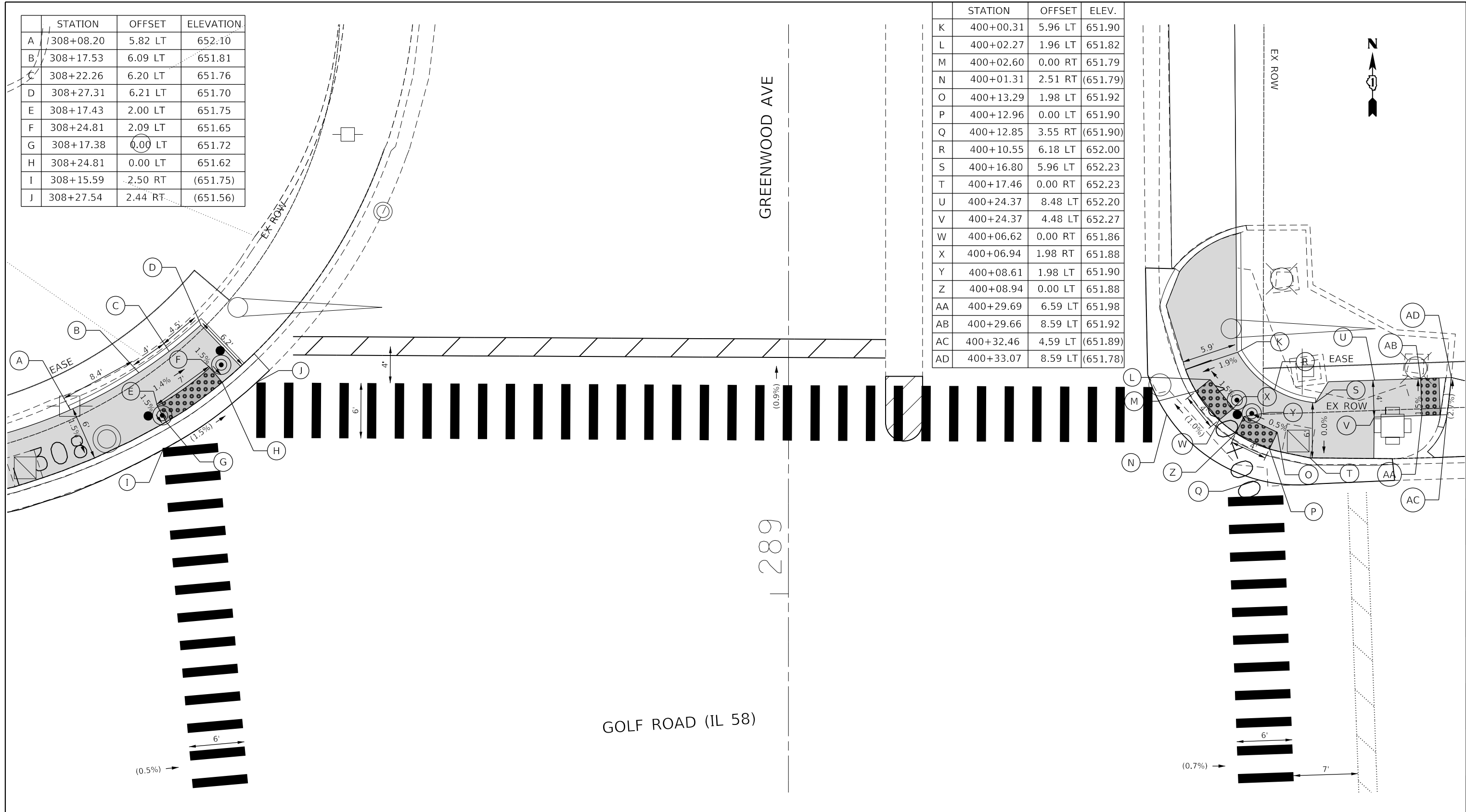
F.A.U. RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	18-00131-00-SW	COOK	145	54
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 61J74	

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

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

	STATION	OFFSET	ELEVATION
A	308+08.20	5.82 LT	652.10
B	308+17.53	6.09 LT	651.81
C	308+22.26	6.20 LT	651.76
D	308+27.31	6.21 LT	651.70
E	308+17.43	2.00 LT	651.75
F	308+24.81	2.09 LT	651.65
G	308+17.38	0.00 LT	651.72
H	308+24.81	0.00 LT	651.62
I	308+15.59	2.50 RT	(651.75)
J	308+27.54	2.44 RT	(651.56)

	STATION	OFFSET	ELEV.
K	400+00.31	5.96 LT	651.90
L	400+02.27	1.96 LT	651.82
M	400+02.60	0.00 RT	651.79
N	400+01.31	2.51 RT	(651.79)
O	400+13.29	1.98 LT	651.92
P	400+12.96	0.00 LT	651.90
Q	400+12.85	3.55 RT	(651.90)
R	400+10.55	6.18 LT	652.00
S	400+16.80	5.96 LT	652.23
T	400+17.46	0.00 RT	652.23
U	400+24.37	8.48 LT	652.20
V	400+24.37	4.48 LT	652.27
W	400+06.62	0.00 RT	651.86
X	400+06.94	1.98 RT	651.88
Y	400+08.61	1.98 LT	651.90
Z	400+08.94	0.00 LT	651.88
AA	400+29.69	6.59 LT	651.98
AB	400+29.66	8.59 LT	651.92
AC	400+32.46	4.59 LT	(651.89)
AD	400+33.07	8.59 LT	(651.78)



REFERENCE BENCHMARK ELEV 652.17

BENCHMARK : CHISELED CROSS ON NORTH SIDE SIGNAL POST FOUNDATION

LOCATION : SOUTHWEST CORNER GOLF ROAD AND GREENWOOD AVE

**LEGEND**

xx.xx'

EXISTING LENGTH

=====

PROPOSED SIDE CURB

( )

EXISTING ELEVATION/SLOPE



PROPOSED SIDEWALK



DETECTABLE WARNINGS

HRG PROJECT NO.: 200452  
 HRG PROJ. CONTACT: 200452-sh-ramps-golf-02.dgn  
 FILE NAME: 200452-sh-ramps-golf-02.dgn  
 PEN TABLE:



USER NAME = bhar-tmo  
 DESIGNED - CW  
 DRAWN -  
 CHECKED - BDH  
 DATE -  
 PLOT SCALE = 10.0000' / 1" / 100'  
 PLOT DATE = 11/15/2023

DESIGNED - CW  
 DRAWN -  
 CHECKED - BDH  
 DATE -  
 REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SIDEWALK RAMP DETAILS  
 GOLF ROAD AT GREENWOOD AVENUE

SCALE: 1"=20'

SHEET 2 OF 17 SHEETS

STA. TO STA.

F.A.U. RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	18-00131-00-SW	COOK	145	55
CONTRACT NO. 61J74				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

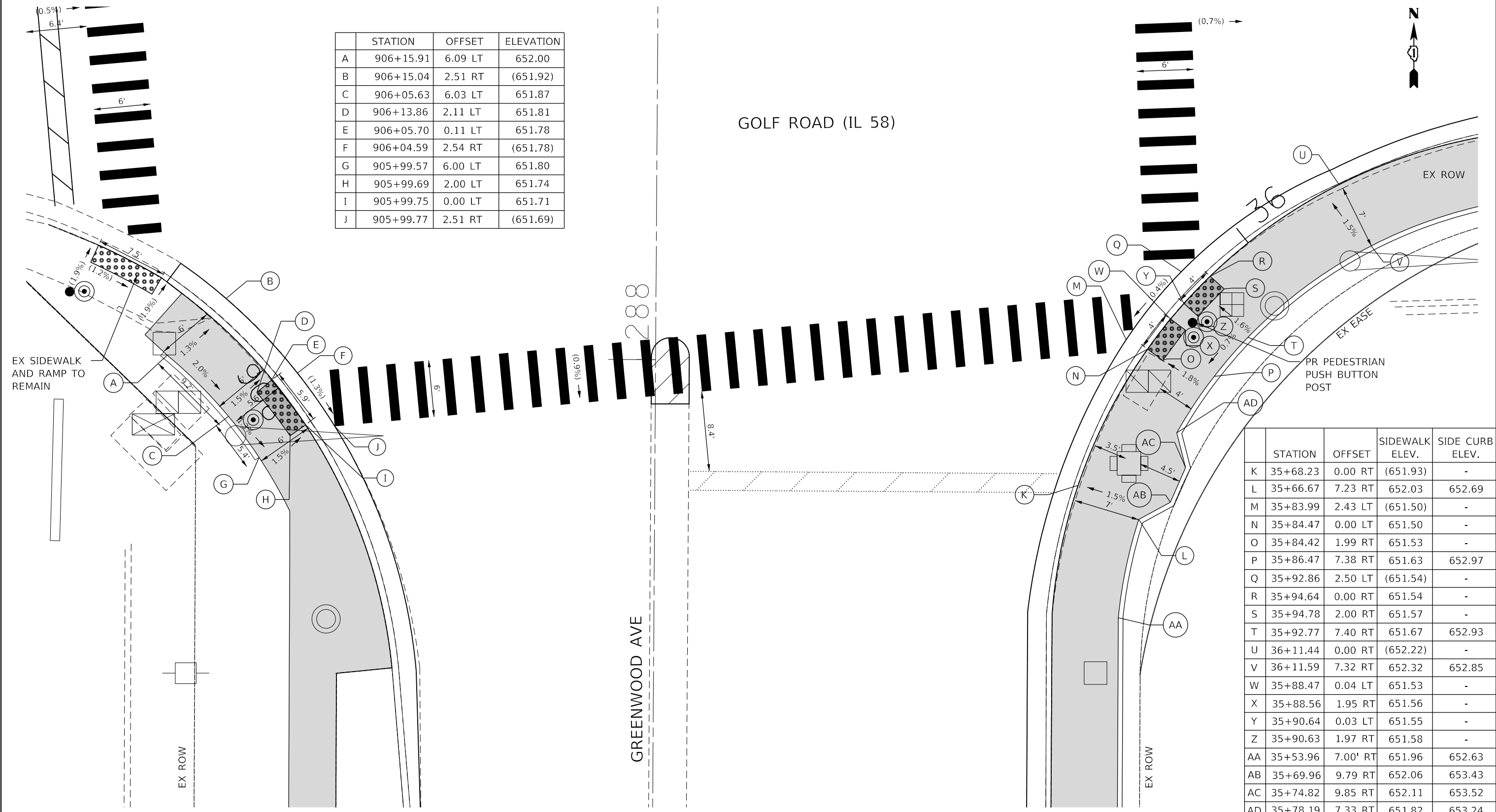
	STATION	OFFSET	ELEVATION
A	906+15.91	6.09 LT	652.00
B	906+15.04	2.51 RT	(651.92)
C	906+05.63	6.03 LT	651.87
D	906+13.86	2.11 LT	651.81
E	906+05.70	0.11 LT	651.78
F	906+04.59	2.54 RT	(651.78)
G	905+99.57	6.00 LT	651.80
H	905+99.69	2.00 LT	651.74
I	905+99.75	0.00 LT	651.71
J	905+99.77	2.51 RT	(651.69)

	STATION	OFFSET	SIDEWALK ELEV.	SIDE CURB ELEV.
K	35+68.23	0.00 RT	(651.93)	-
L	35+66.67	7.23 RT	652.03	652.69
M	35+83.99	2.43 LT	(651.50)	-
N	35+84.47	0.00 LT	651.50	-
O	35+84.42	1.99 RT	651.53	-
P	35+86.47	7.38 RT	651.63	652.97
Q	35+92.86	2.50 LT	(651.54)	-
R	35+94.64	0.00 RT	651.54	-
S	35+94.78	2.00 RT	651.57	-
T	35+92.77	7.40 RT	651.67	652.93
U	36+11.44	0.00 RT	(652.22)	-
V	36+11.59	7.32 RT	652.32	652.85
W	35+88.47	0.04 LT	651.53	-
X	35+88.56	1.95 RT	651.56	-
Y	35+90.64	0.03 LT	651.55	-
Z	35+90.63	1.97 RT	651.58	-
AA	35+53.96	7.00' RT	651.96	652.63
AB	35+69.96	9.79 RT	652.06	653.43
AC	35+74.82	9.85 RT	652.11	653.52
AD	35+78.19	7.33 RT	651.82	653.24

PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNED	
	CHECKED	
	BY	
	NO.	
	FILE NAME	

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE	
	NOTATIS	
	CHKD	
	NO.	
	FILE NAME	

HRG PROJECT NO.: 200442  
 HRG PROJ. CONTACT: 200442-shr-ramps-golf-03.dgn  
 FILE NAME: 200442-shr-ramps-golf-03.dgn  
 PEN TABLE: pofc06bktf1



REFERENCE BENCHMARK ELEV 652.17  
 BENCHMARK : CHISELED CROSS ON NORTH SIDE SIGNAL POST FOUNDATION  
 LOCATION : SOUTHWEST CORNER GOLF ROAD AND GREENWOOD AVE

**LEGEND**

	EXISTING LENGTH		PROPOSED SIDEWALK
	PROPOSED SIDE CURB		DETECTABLE WARNINGS
	EXISTING ELEVATION/SLOPE		



USER NAME = bhartha	DESIGNED - CW	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 10.0000' / in.	CHECKED - BDH	REVISED -
PLOT DATE = 11/15/2023	DATE -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

**SIDEWALK RAMP DETAILS**  
**GOLF ROAD AT GREENWOOD AVENUE**

SCALE: 1"=20'    SHEET 3 OF 17 SHEETS    STA. TO STA.

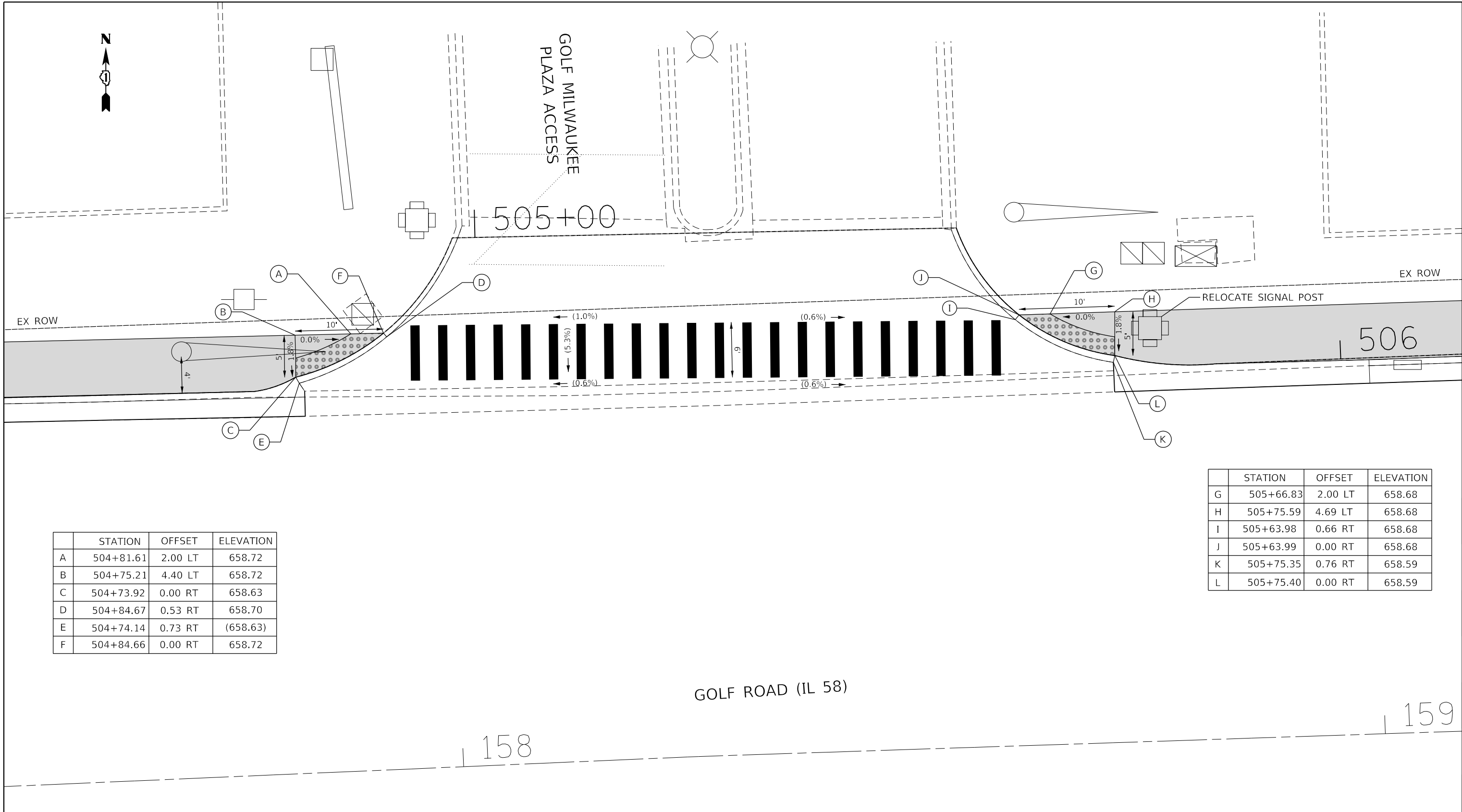
F.A.U. RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	18-00131-00-SW	COOK	145	56
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 61J74	





PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNED	
	CHECKED	
	FILED	
	NO. _____	
	BY _____	

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



	STATION	OFFSET	ELEVATION
A	504+81.61	2.00 LT	658.72
B	504+75.21	4.40 LT	658.72
C	504+73.92	0.00 RT	658.63
D	504+84.67	0.53 RT	658.70
E	504+74.14	0.73 RT	(658.63)
F	504+84.66	0.00 RT	658.72

	STATION	OFFSET	ELEVATION
G	505+66.83	2.00 LT	658.68
H	505+75.59	4.69 LT	658.68
I	505+63.98	0.66 RT	658.68
J	505+63.99	0.00 RT	658.68
K	505+75.35	0.76 RT	658.59
L	505+75.40	0.00 RT	658.59

REFERENCE BENCHMARK ELEV 656.80  
 BENCHMARK : FIRE HYDRANT, NORTHWEST FLANGE BOLT  
 LOCATION : NORTHEAST CORNER OF GOLF ROAD AND MILWAUKEE AVENUE

**LEGEND**

xx.xx'	EXISTING LENGTH		PROPOSED SIDEWALK
	PROPOSED SIDE CURB		DETECTABLE WARNINGS
( )	EXISTING ELEVATION/SLOPE		

HRG PROJECT NO.: 200462  
 HRG PROJ. CONTACT: 200462-shr-ramps-golf-04.dgn  
 FILE NUMBER: 200462-shr-ramps-golf-04.dgn  
 PEN TABLE: pof106041.dtl



USER NAME = bharto	DESIGNED - CW	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 10.0000' / 1"	CHECKED - BDH	REVISED -
PLOT DATE = 11/15/2023	DATE -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SIDEWALK RAMP DETAILS  
 GOLF ROAD AT GOLF MILWAUKEE PLAZA

SCALE: 1"=20' SHEET 4 OF 17 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	18-00131-00-SW	COOK	145	57
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 61J74	

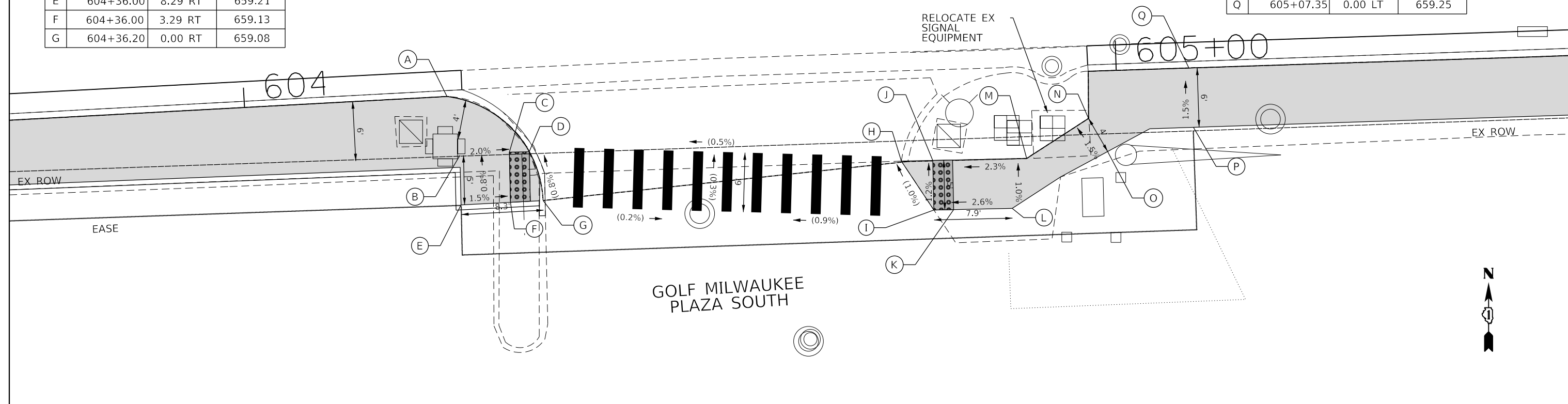
GOLF ROAD (IL 58)

PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNED	
	CHECKED	
	FILED	
	FILE NAME	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NO.	

STATION	OFFSET	ELEVATION	
A	604+20.46	0.00 RT	659.28
B	604+24.46	5.37 RT	659.17
C	604+28.39	0.00 LT	659.07
D	604+30.83	0.01 RT	659.04
E	604+36.00	8.29 RT	659.21
F	604+36.00	3.29 RT	659.13
G	604+36.20	0.00 RT	659.08

	STATION	OFFSET	ELEVATION
H	604+72.35	0.11 LT	659.24
I	604+75.50	4.96 RT	659.30
J	604+75.53	0.04 LT	659.27
K	604+77.50	4.97 RT	659.33
L	604+83.41	4.99 RT	659.55
M	604+85.00	0.00 RT	659.50
N	604+92.43	0.00 RT	659.52
O	604+92.23	3.85 RT	659.58
P	605+07.61	6.00 RT	659.34
Q	605+07.35	0.00 LT	659.25



REFERENCE BENCHMARK ELEV 656.80  
 BENCHMARK : FIRE HYDRANT, NORTHWEST FLANGE BOLT  
 LOCATION : NORTHEAST CORNER OF GOLF ROAD AND MILWAUKEE AVENUE

**LEGEND**

- xx.xx' EXISTING LENGTH
- PROPOSED SIDE CURB
- ( ) EXISTING ELEVATION/SLOPE
- PROPOSED SIDEWALK
- DETECTABLE WARNINGS

HRG PROJECT NO.: 200462  
 HRG PROJ CONTACT: 200462-shr-ramps-golf-05.dgn  
 FILE NAME: 200462-shr-ramps-golf-05.dgn  
 PEN TABLE:



USER NAME = bhartna	DESIGNED - CW	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 10.0000' / in.	CHECKED - BDH	REVISED -
PLOT DATE = 11/15/2023	DATE -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

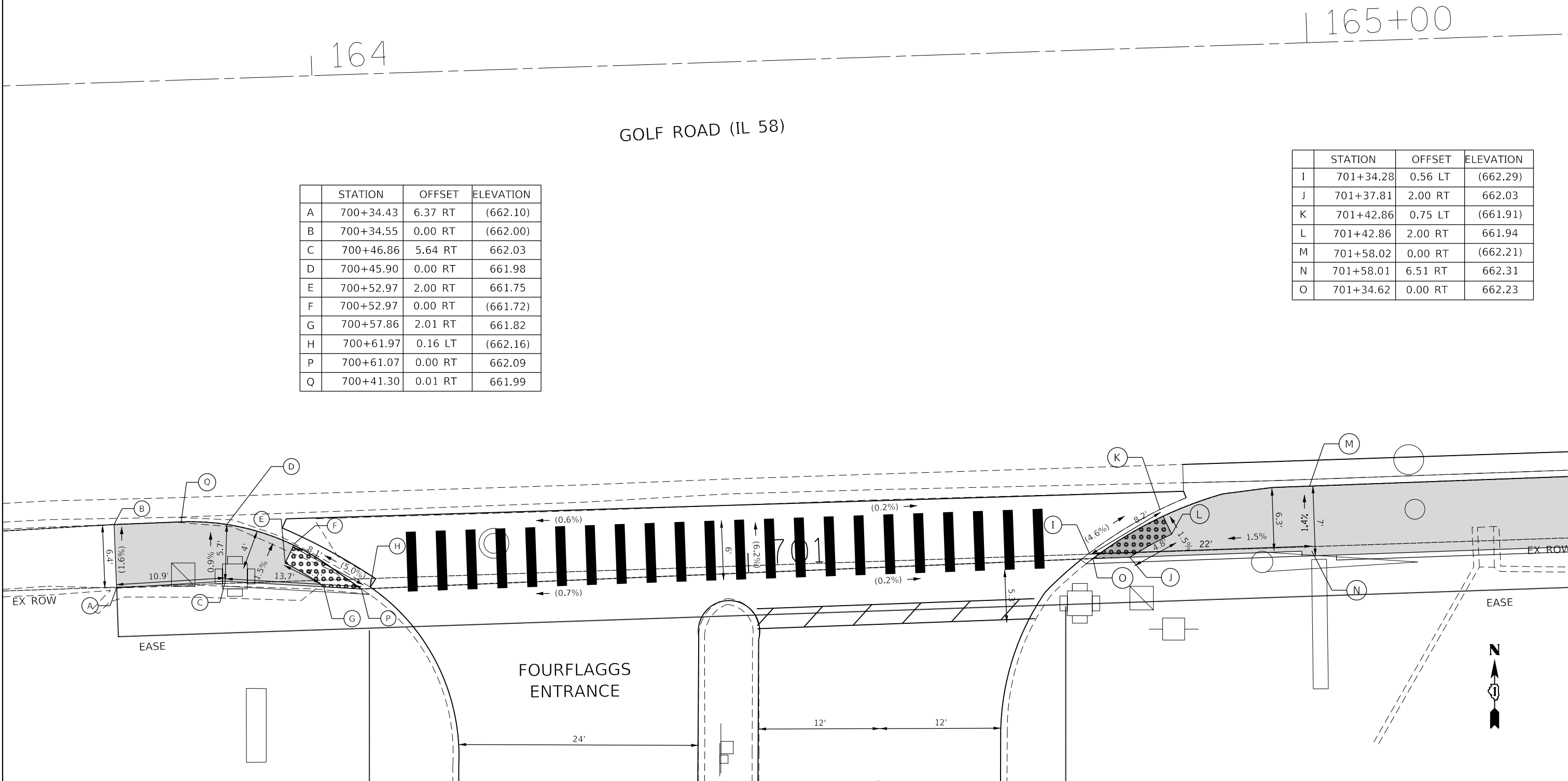
**SIDEWALK RAMP DETAILS**  
**GOLF ROAD AT GOLF MILWAUKEE PLAZA**  
 SCALE: 1"=20' SHEET 5 OF 17 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	18-00131-00-SW	COOK	145	58
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 61J74	

PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNED	
	CHECKED	
	BY	
	FILE NAME	
	NO.	

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

HRG PROJECT NO.: 200442  
 HRG PROJ. CONTACT: 200442-shr-ramps-golf-06.dgn  
 FILE NAME: 200442-shr-ramps-golf-06.dgn  
 PEN TABLE:



	STATION	OFFSET	ELEVATION
A	700+34.43	6.37 RT	(662.10)
B	700+34.55	0.00 RT	(662.00)
C	700+46.86	5.64 RT	662.03
D	700+45.90	0.00 RT	661.98
E	700+52.97	2.00 RT	661.75
F	700+52.97	0.00 RT	(661.72)
G	700+57.86	2.01 RT	661.82
H	700+61.97	0.16 LT	(662.16)
P	700+61.07	0.00 RT	662.09
Q	700+41.30	0.01 RT	661.99

	STATION	OFFSET	ELEVATION
I	701+34.28	0.56 LT	(662.29)
J	701+37.81	2.00 RT	662.03
K	701+42.86	0.75 LT	(661.91)
L	701+42.86	2.00 RT	661.94
M	701+58.02	0.00 RT	(662.21)
N	701+58.01	6.51 RT	662.31
O	701+34.62	0.00 RT	662.23

REFERENCE BENCHMARK ELEV 665.89  
 BENCHMARK : FIRE HYDRANT SOUTHEAST FLANGE BOLT  
 LOCATION : APPROX. 530' EAST OF MAIN ENTRANCE FOURFLAGGS MALL

**LEGEND**

- xx.xx' EXISTING LENGTH
- PROPOSED SIDE CURB
- ( ) EXISTING ELEVATION/SLOPE
- PROPOSED SIDEWALK
- DETECTABLE WARNINGS



USER NAME = bharta	DESIGNED - CW	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 10.0000' / 1"	CHECKED - BDH	REVISED -
PLOT DATE = 11/15/2023	DATE -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SIDEWALK RAMP DETAILS  
 GOLF ROAD AT FOURFLAGGS

SCALE: 1"=20' SHEET 6 OF 17 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	18-00131-00-SW	COOK	145	59
CONTRACT NO. 61J74				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	ALIGNMENT CHECKED	
	STRUCTURE NOT AT THIS OFFICE	
	NO. _____	

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

HRG PROJECT NO.: 200452  
 HRG PROJ. CONTACT: 200452-shr-r-amps-greenwood-00.dgn  
 FILE NAME: 200452-shr-r-amps-greenwood-00.dgn  
 PEN TABLE:

USER NAME = bhartna	DESIGNED - CW	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 10.0000' / 1"	CHECKED - BDH	REVISED -
PLOT DATE = 11/15/2023	DATE -	REVISED -

**LEGEND**

xx.xx' EXISTING LENGTH

PROPOSED SIDE CURB

( ) EXISTING ELEVATION/SLOPE

PROPOSED SIDEWALK

DETECTABLE WARNINGS

REFERENCE BENCHMARK ELEV 645.67

BENCHMARK : FIRE HYDRANT, NORTHWEST FLANGE BOLT

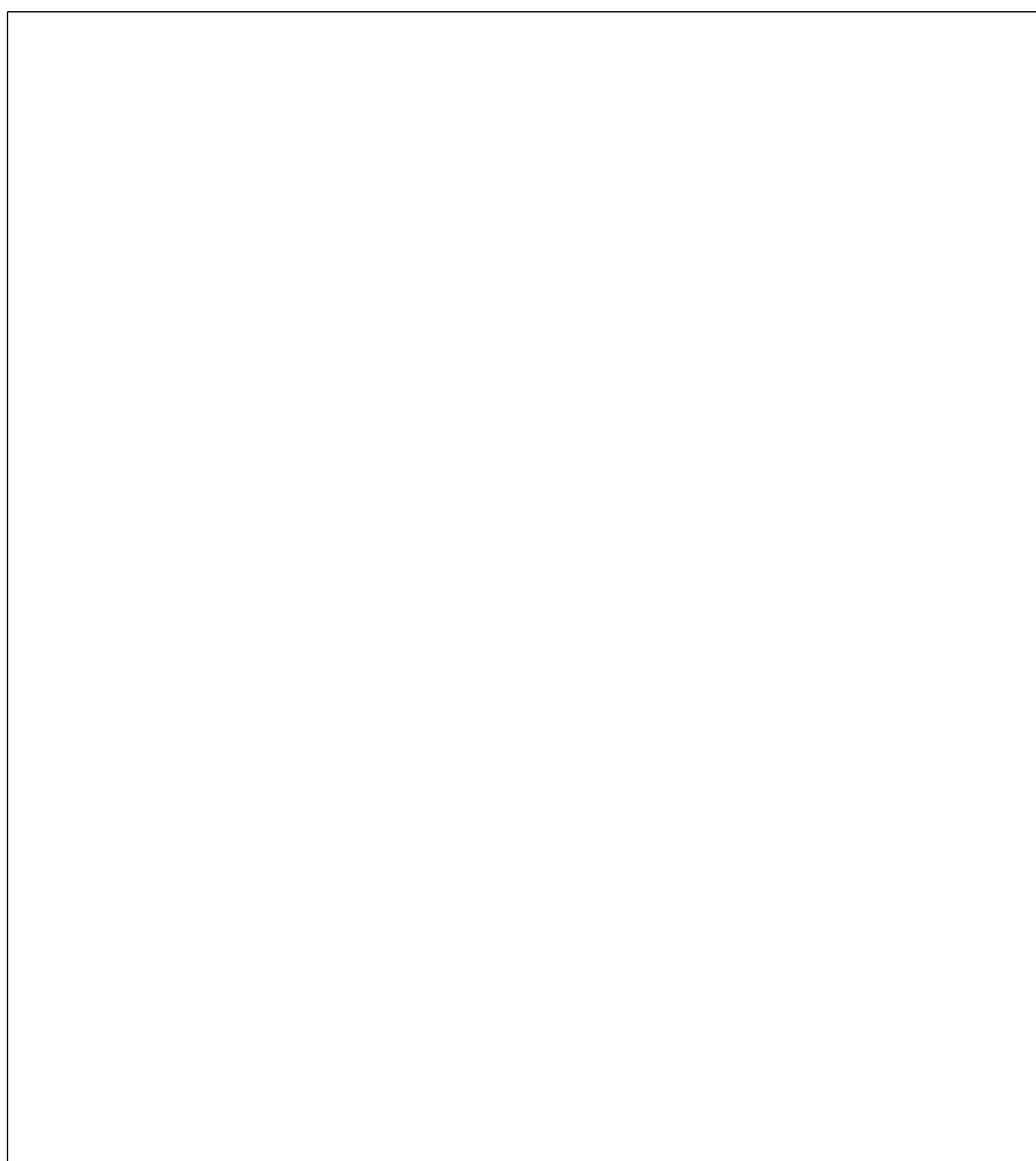
LOCATION : NORTHEAST CORNER OF GREENWOOD AVE AND ROSEVIEW DR

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SIDEWALK RAMP DETAILS  
GREENWOOD AVE AT ROSEVIEW DR**

SCALE: 1"=20' SHEET 7 OF 17 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	18-00131-00-SW	COOK	145	60
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 61J74	

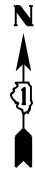


	STATION	OFFSET	ELEVATION
A	1014+30.50	0.17 RT	(644.85)
B	1014+26.75	5.32 RT	(644.62)
C	1014+35.24	0.00 LT	644.85
D	1014+32.59	5.10 RT	644.78
E	1014+45.01	0.00 LT	645.14
F	1014+45.02	5.00 RT	645.22
G	1013+83.60	3.72 RT	(644.91)
H	1013+78.15	1.05 LT	(645.14)
I	1013+72.68	5.49 RT	645.10
J	1013+73.17	0.00 RT	645.18
K	1013+66.21	5.00 RT	645.50
L	1013+66.21	0.00 RT	645.42

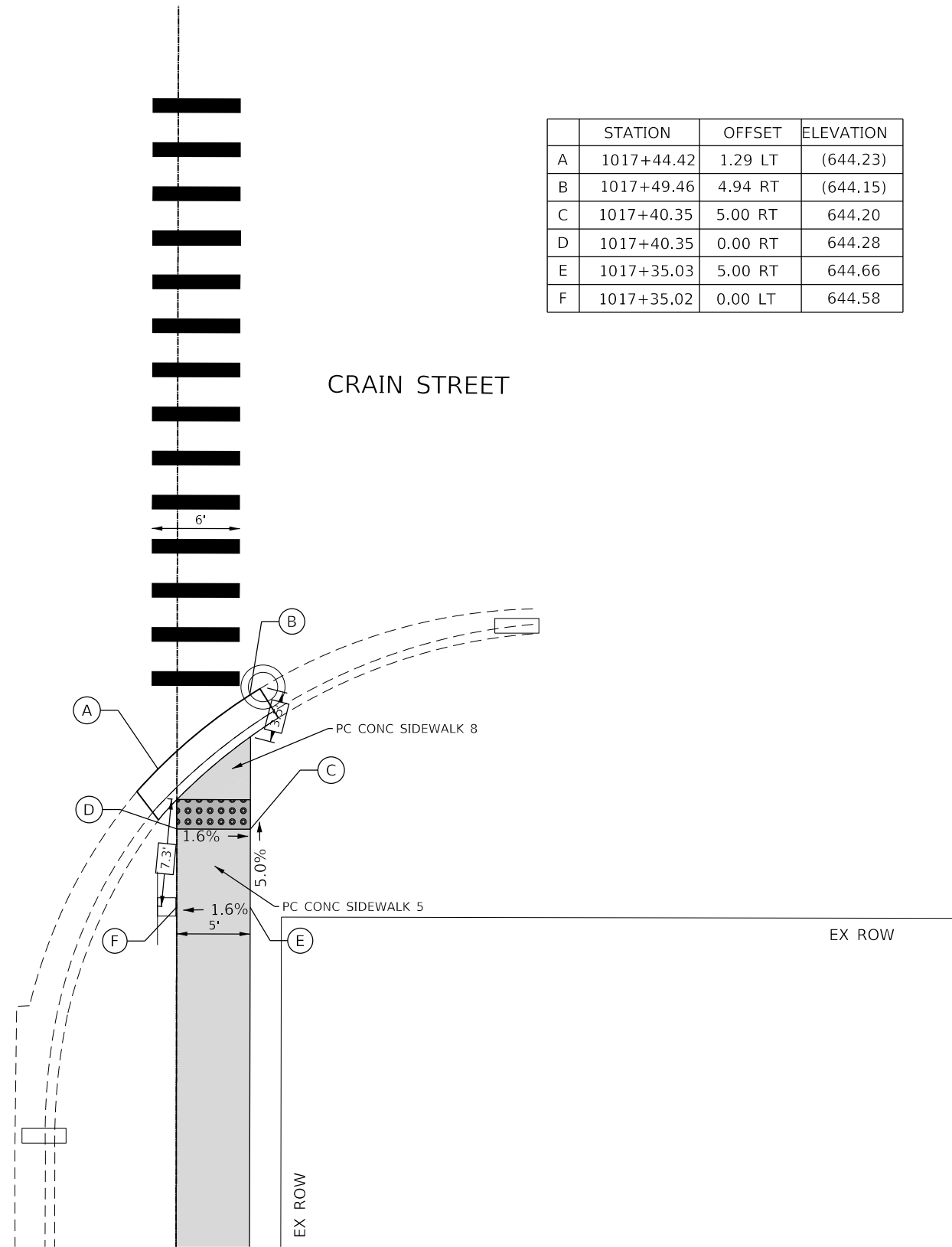
PLAN	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	ALIGNED	
	FILED	
	FILE NAME	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	ALIGNED	
	FILED	
	FILE NAME	
	NO.	

HRG PROJECT NO.: 200452  
 HRG PROJ. CONTACT: 200452-shr-r-amps-greenwood-02.dgn  
 FILE NAME: 200452-shr-r-amps-greenwood-02.dgn  
 PEN TABLE:



GREENWOOD AVENUE



	STATION	OFFSET	ELEVATION
A	1017+44.42	1.29 LT	(644.23)
B	1017+49.46	4.94 RT	(644.15)
C	1017+40.35	5.00 RT	644.20
D	1017+40.35	0.00 RT	644.28
E	1017+35.03	5.00 RT	644.66
F	1017+35.02	0.00 LT	644.58

CRAIN STREET

REFERENCE BENCHMARK ELEV 645.67

BENCHMARK : FIRE HYDRANT, NORTHWEST FLANGE BOLT

LOCATION : NORTHEAST CORNER OF GREENWOOD AVE AND ROSEVIEW DR

**LEGEND**

xx.xx'

EXISTING LENGTH

=====

PROPOSED SIDE CURB

( )

EXISTING ELEVATION/SLOPE



PROPOSED SIDEWALK



DETECTABLE WARNINGS



HRGreen.com  
 Illinois Professional Design Firm  
 #184-001322

USER NAME = bhar-tmo	DESIGNED - CW	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 10.0000' / 1"	CHECKED - BDH	REVISED -
PLOT DATE = 11/15/2023	DATE -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SIDEWALK RAMP DETAILS  
 GREENWOOD AVE AT CRAIN ST & CHURCH ST

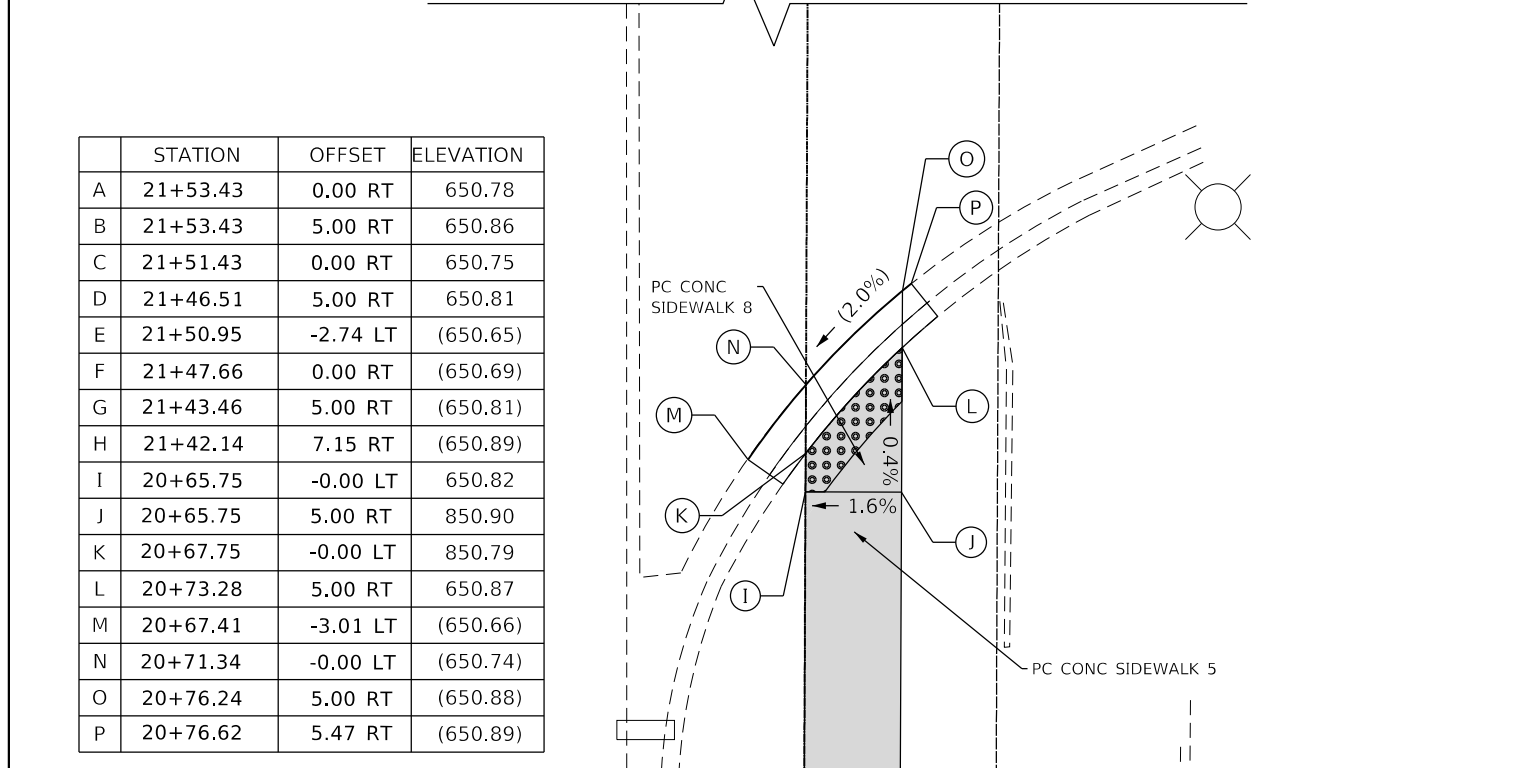
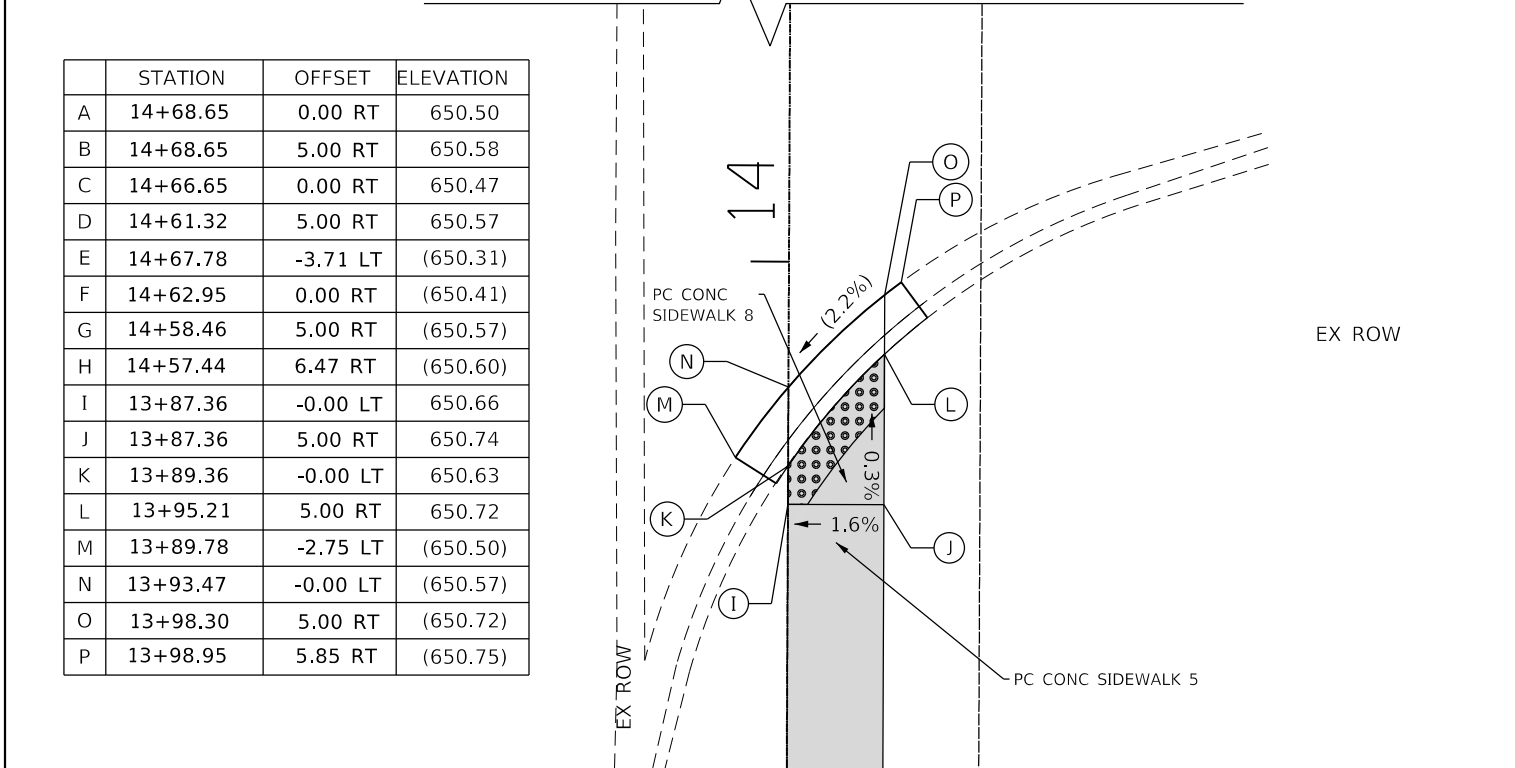
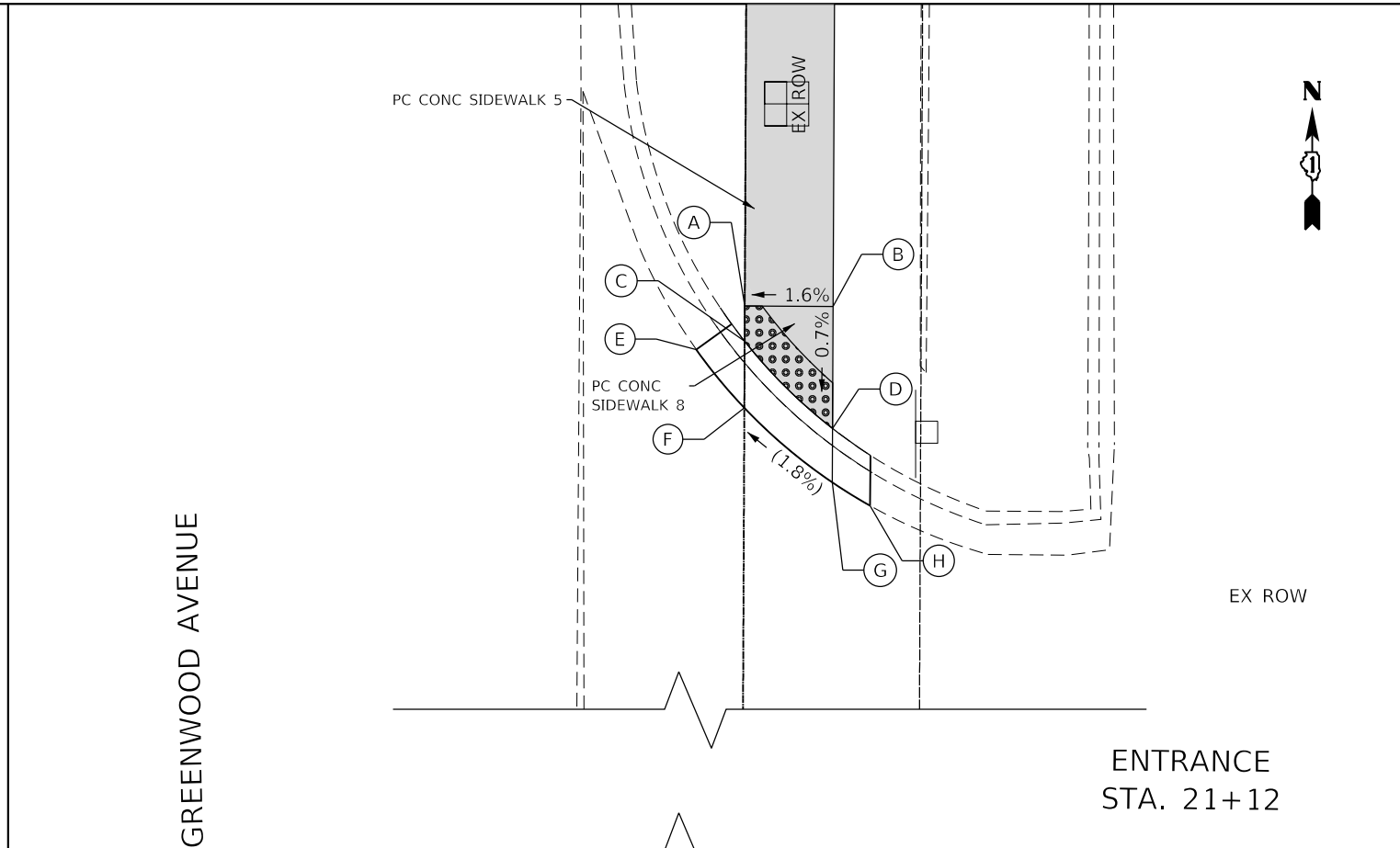
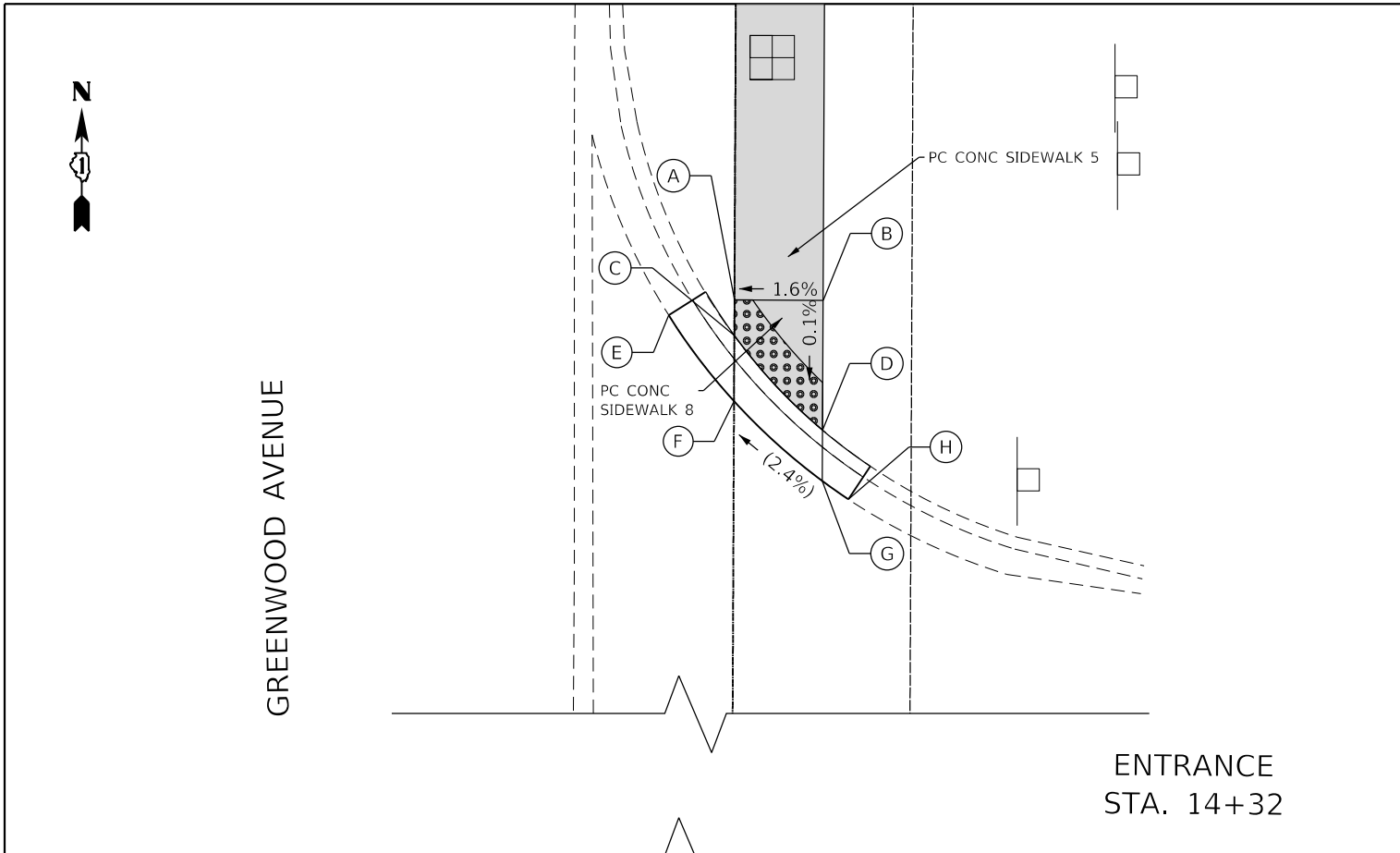
SCALE: 1"=20' SHEET 8 OF 17 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	18-00131-00-SW	COOK	145	61
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 61J74	

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

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

HRG PROJECT NO.: 200422  
 HRG PROJ. CONTACT: 200422-shr-r-amps-greenwood-03.dgn  
 FILE NAME: 18-00131-00-SW-01.dwg  
 PEN TABLE:



	STATION	OFFSET	ELEVATION
A	14+68.65	0.00 RT	650.50
B	14+68.65	5.00 RT	650.58
C	14+66.65	0.00 RT	650.47
D	14+61.32	5.00 RT	650.57
E	14+67.78	-3.71 LT	(650.31)
F	14+62.95	0.00 RT	(650.41)
G	14+58.46	5.00 RT	(650.57)
H	14+57.44	6.47 RT	(650.60)
I	13+87.36	-0.00 LT	650.66
J	13+87.36	5.00 RT	650.74
K	13+89.36	-0.00 LT	650.63
L	13+95.21	5.00 RT	650.72
M	13+89.78	-2.75 LT	(650.50)
N	13+93.47	-0.00 LT	(650.57)
O	13+98.30	5.00 RT	(650.72)
P	13+98.95	5.85 RT	(650.75)

	STATION	OFFSET	ELEVATION
A	21+53.43	0.00 RT	650.78
B	21+53.43	5.00 RT	650.86
C	21+51.43	0.00 RT	650.75
D	21+46.51	5.00 RT	650.81
E	21+50.95	-2.74 LT	(650.65)
F	21+47.66	0.00 RT	(650.69)
G	21+43.46	5.00 RT	(650.81)
H	21+42.14	7.15 RT	(650.89)
I	20+65.75	-0.00 LT	650.82
J	20+65.75	5.00 RT	850.90
K	20+67.75	-0.00 LT	850.79
L	20+73.28	5.00 RT	650.87
M	20+67.41	-3.01 LT	(650.66)
N	20+71.34	-0.00 LT	(650.74)
O	20+76.24	5.00 RT	(650.88)
P	20+76.62	5.47 RT	(650.89)

REFERENCE BENCHMARK ELEV 652.99  
 BENCHMARK : FIRE HYDRANT, NORTHEAST FLANGE BOLT  
 LOCATION : NORTHEAST CORNER OF GREENWOOD AVE AND CHURCH ST

REFERENCE BENCHMARK ELEV 652.99  
 BENCHMARK : FIRE HYDRANT, NORTHEAST FLANGE BOLT  
 LOCATION : NORTHEAST CORNER OF GREENWOOD AVE AND CHURCH ST

**LEGEND**

xx.xx' EXISTING LENGTH

===== PROPOSED SIDE CURB

( ) EXISTING ELEVATION/SLOPE

■ PROPOSED SIDEWALK

▒ DETECTABLE WARNINGS



USER NAME = bhar-ma	DESIGNED - CW	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 10.0000' / 1"	CHECKED - BDH	REVISED -
PLOT DATE = 11/15/2023	DATE -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

**SIDEWALK RAMP DETAILS**  
**GREENWOOD AVE AT CRAIN ST & CHURCH ST**

SCALE: 1"=20' SHEET 9 OF 17 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	18-00131-00-SW	COOK	145	62
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 61J74	

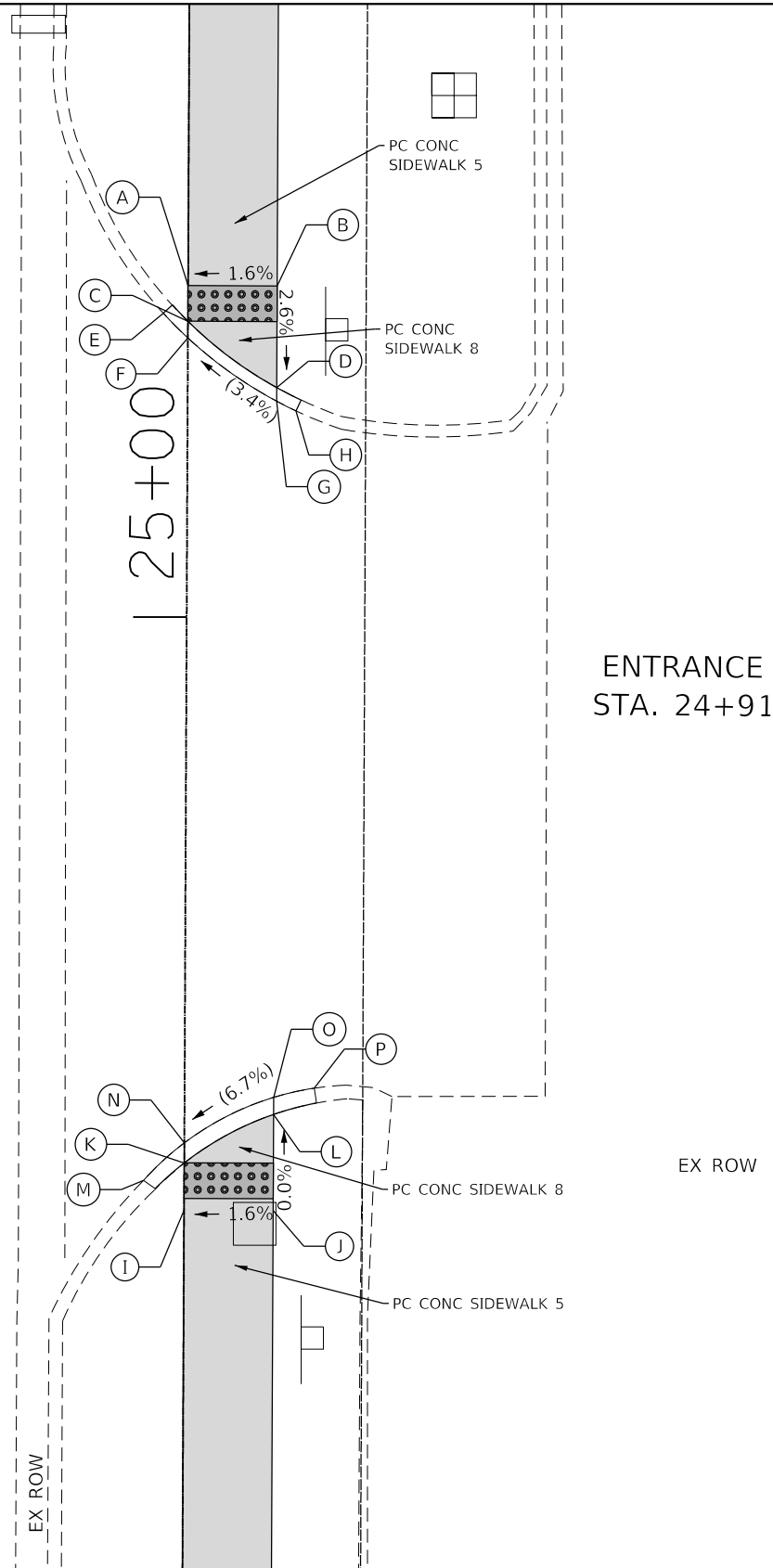
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NOTE BOOK	PLOTTED	BY
NO.	ALIGNED	
	CHECKED	
	FILE NAME	
	FILE NAME	

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

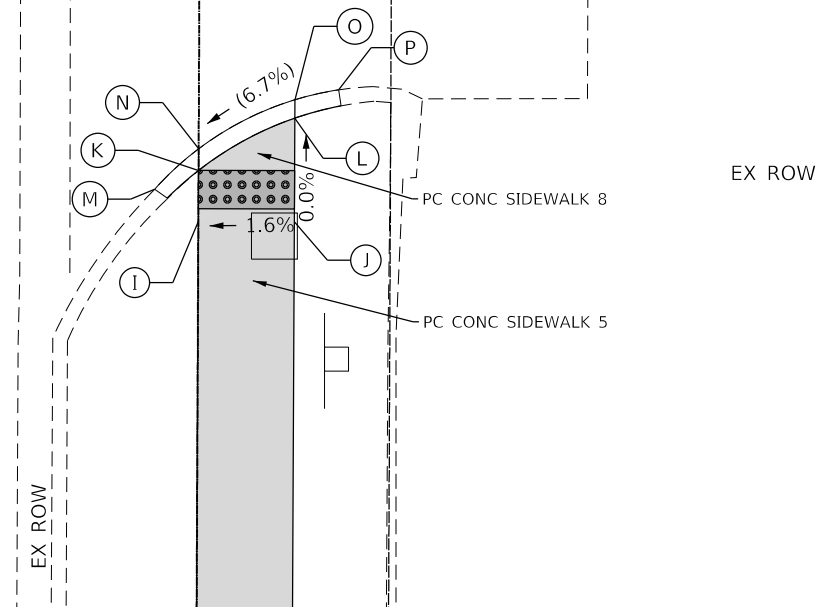
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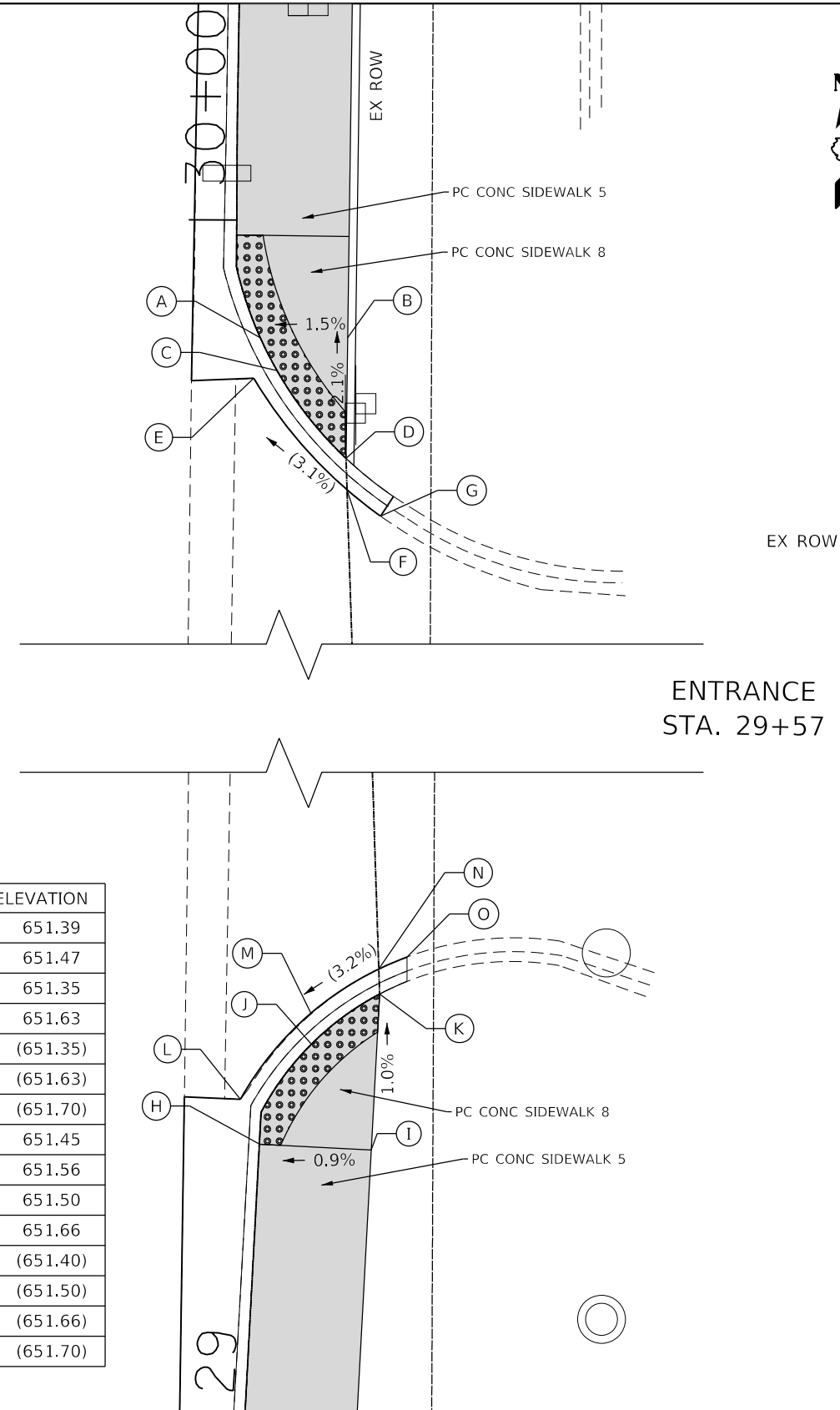
GREENWOOD AVENUE



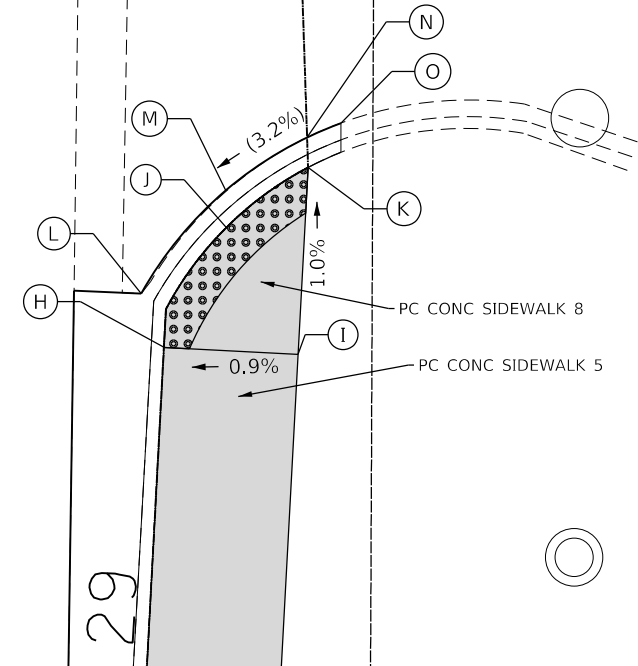
	STATION	OFFSET	ELEVATION
A	25+18.62	-0.00 LT	652.17
B	25+18.62	5.00 RT	652.25
C	25+16.61	-0.00 LT	652.14
D	25+12.91	5.00 RT	652.10
E	25+17.07	-1.39 LT	(651.90)
F	25+15.68	-0.00 LT	(651.95)
G	25+12.14	5.00 RT	(652.16)
H	25+11.61	6.08 RT	(652.22)
I	24+66.70	0.00 RT	652.22
J	24+66.70	5.00 RT	652.30
K	24+69.34	0.00 RT	652.00
L	24+72.10	5.00 RT	652.30
M	24+68.36	-2.29 LT	(651.88)
N	24+70.48	0.00 RT	(651.94)
O	24+73.05	5.00 RT	(652.32)
P	24+73.58	7.28 RT	(652.40)



GREENWOOD AVENUE



	STATION	OFFSET	ELEVATION
A	29+92.40	0.00 RT	651.39
B	29+89.59	4.85 RT	651.47
C	29+90.09	0.00 RT	651.35
D	29+83.10	0.00 RT	651.63
E	29+90.39	-1.50 LT	(651.35)
F	29+81.15	0.00 RT	(651.63)
G	29+79.42	2.04 RT	(651.70)
H	29+17.73	-0.00 LT	651.45
I	29+17.73	7.00 RT	651.56
J	29+25.02	-0.00 LT	651.50
K	29+30.32	0.00 RT	651.66
L	29+19.81	-1.52 LT	(651.40)
M	29+26.26	-1.43 LT	(651.50)
N	29+31.88	0.00 RT	(651.66)
O	29+32.58	1.79 RT	(651.70)



REFERENCE BENCHMARK ELEV 652.99  
 BENCHMARK : FIRE HYDRANT, NORTHEAST FLANGE BOLT  
 LOCATION : NORTHEAST CORNER OF GREENWOOD AVE AND CHURCH ST

**LEGEND**

- xx.xx' EXISTING LENGTH
- ===== PROPOSED SIDE CURB
- ( ) EXISTING ELEVATION/SLOPE

- PROPOSED SIDEWALK
- DETECTABLE WARNINGS

REFERENCE BENCHMARK ELEV 652.17  
 BENCHMARK : CHISELED CROSS ON NORTH SIDE SIGNAL POST FOUNDATION  
 LOCATION : SOUTHWEST CORNER GOLF ROAD AND GREENWOOD AVE



USER NAME = bhar-ma	DESIGNED - CW	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 10.0000' / 1"	CHECKED - BDH	REVISED -
PLOT DATE = 11/15/2023	DATE -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SIDEWALK RAMP DETAILS  
 GREENWOOD AVENUE

SCALE: 1"=20' SHEET 10 OF 17 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	18-00131-00-SW	COOK	145	63
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 61J74	

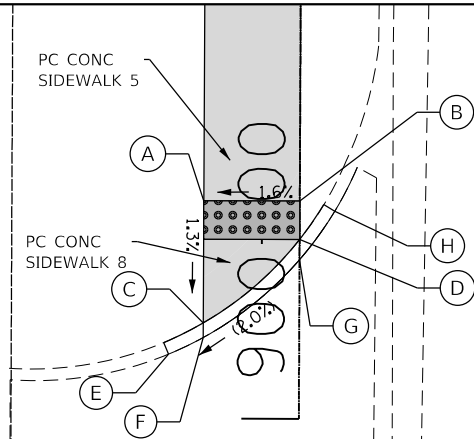
PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNED	
	CHECKED	
	FILE NAME	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NO.	

HRG PROJECT NO.: 200452  
 HRG PROJ. CONTACT: 200452-sh-ramps-greenwood-05.dgn  
 FILE NAME: 18-00131-00-SW-01.dwg  
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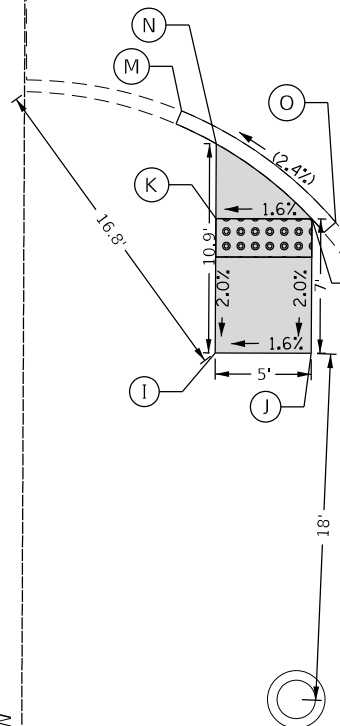
	STATION	OFFSET	ELEVATION
A	900+11.35	-5.00 LT	651.20
B	900+11.35	-0.00 LT	651.28
C	900+04.98	-5.00 LT	652.12
D	900+09.35	-0.00 LT	652.25
E	900+03.35	-6.80 LT	(651.13)
F	900+04.22	-5.00 LT	(651.12)
G	900+08.30	-0.00 LT	(651.25)
H	900+10.83	1.82 RT	(651.26)

	ELEVATION
I	651.34
J	651.42
K	651.20
L	651.28
M	(651.08)
N	651.14
O	(651.32)



ENTRANCE  
STA. 899+87

GREENWOOD AVENUE



ENTRANCE  
STA. 903+85

GREENWOOD AVENUE

	STATION	OFFSET	ELEVATION
A	904+10.75	-5.00 LT	651.26
B	904+10.75	0.00 RT	651.35
C	904+05.48	-5.00 LT	651.10
D	904+08.76	0.00 RT	651.39
E	904+03.21	-6.46 LT	(650.93)
F	904+03.78	-5.00 LT	(651.05)
G	904+06.68	0.00 RT	(651.44)
H	904+09.39	2.99 RT	(651.58)
I	903+61.56	-5.00 LT	651.30
J	903+61.56	0.00 RT	651.40
K	903+66.90	-5.00 LT	651.11
L	903+63.56	0.00 RT	651.36
M	903+69.46	-5.66 LT	(651.01)
N	903+69.09	-5.00 LT	(651.06)
O	903+65.48	0.00 RT	(651.41)
P	903+62.92	2.90 RT	(651.62)

REFERENCE BENCHMARK ELEV 652.17  
 BENCHMARK : CHISELED CROSS ON NORTH SIDE SIGNAL POST FOUNDATION  
 LOCATION : SOUTHWEST CORNER GOLF ROAD AND GREENWOOD AVE

**LEGEND**

- xx.xx' EXISTING LENGTH
- ===== PROPOSED SIDE CURB
- ( ) EXISTING ELEVATION/SLOPE

- PROPOSED SIDEWALK
- DETECTABLE WARNINGS



USER NAME = bhartna	DESIGNED - CW	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 10.0000' / 1"	CHECKED - BDH	REVISED -
PLOT DATE = 11/15/2023	DATE -	REVISED -

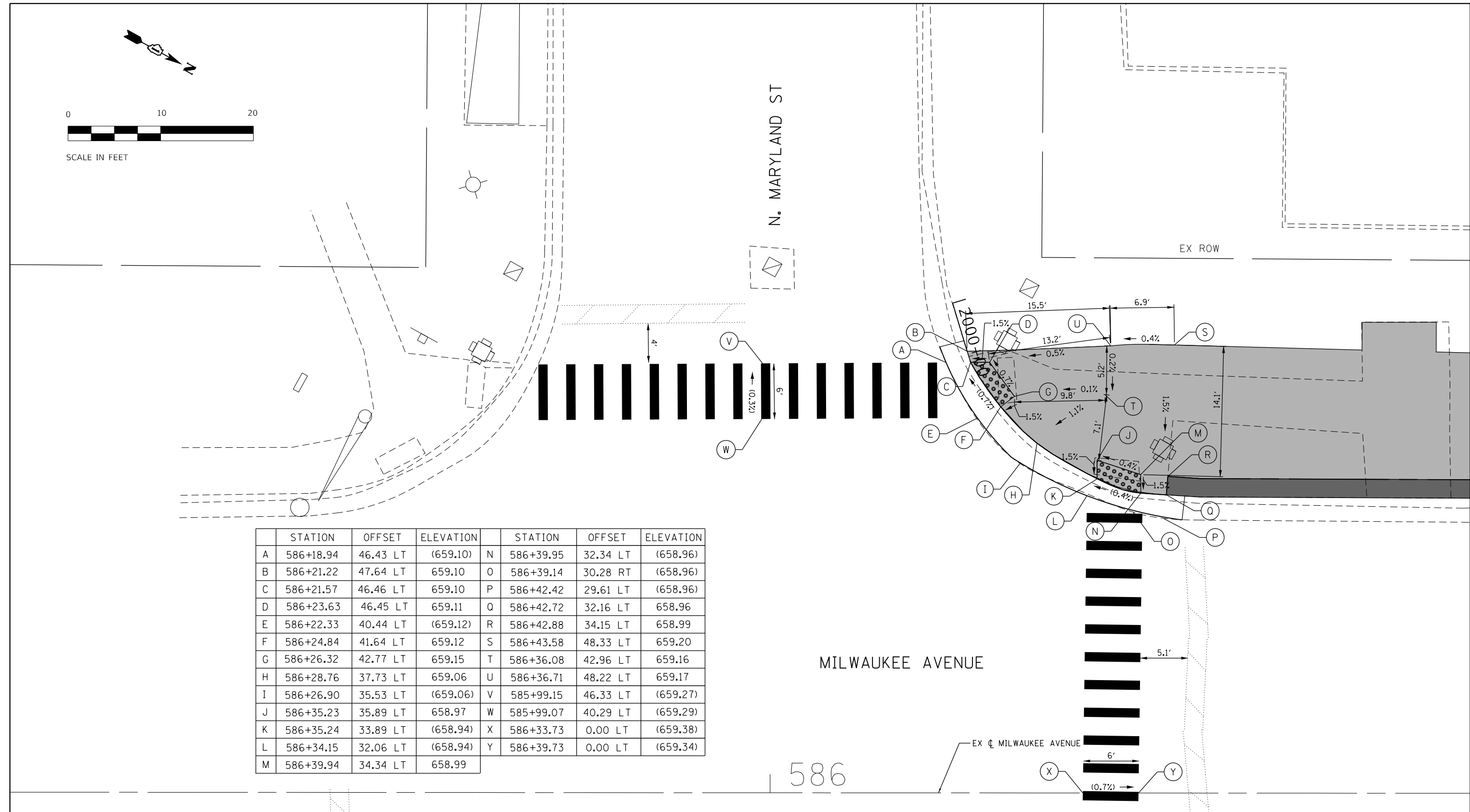
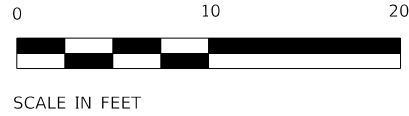
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SIDEWALK RAMP DETAILS  
GREENWOOD AVENUE

SCALE: 1"=20' SHEET 11 OF 17 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	18-00131-00-SW	COOK	145	64
CONTRACT NO. 61J74				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				





	STATION	OFFSET	ELEVATION		STATION	OFFSET	ELEVATION
A	586+18.94	46.43 LT	(659.10)	N	586+39.95	32.34 LT	(658.96)
B	586+21.22	47.64 LT	659.10	O	586+39.14	30.28 RT	(658.96)
C	586+21.57	46.46 LT	659.10	P	586+42.42	29.61 LT	(658.96)
D	586+23.63	46.45 LT	659.11	Q	586+42.72	32.16 LT	658.96
E	586+22.33	40.44 LT	(659.12)	R	586+42.88	34.15 LT	658.99
F	586+24.84	41.64 LT	659.12	S	586+43.58	48.33 LT	659.20
G	586+26.32	42.77 LT	659.15	T	586+36.08	42.96 LT	659.16
H	586+28.76	37.73 LT	659.06	U	586+36.71	48.22 LT	659.17
I	586+26.90	35.53 LT	(659.06)	V	585+99.15	46.33 LT	(659.27)
J	586+35.23	35.89 LT	658.97	W	585+99.07	40.29 LT	(659.29)
K	586+35.24	33.89 LT	(658.94)	X	586+33.73	0.00 LT	(659.38)
L	586+34.15	32.06 LT	(658.94)	Y	586+39.73	0.00 LT	(659.34)
M	586+39.94	34.34 LT	658.99				

MILWAUKEE AVENUE

586

**LEGEND**

- xx.xx' EXISTING LENGTH
- ( ) EXISTING ELEVATION/SLOPE
- ===== PROPOSED SIDE CURB
- PROPOSED SIDEWALK
- PROPOSED STAMPED COLORED PCC SIDEWALK
- DETECTABLE WARNINGS

REFERENCE BENCHMARK ELEV 659.52

BENCHMARK : CHISELED CROSS IN SIDEWALK

LOCATION : SOUTHWEST CORNER OF INTERSECTION OF MILWAUKEE AVE AND CHURCH ST.

USER NAME = bhartma	DESIGNED - CW	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 10.0000 ' / in.	CHECKED - BDH	REVISED -
PLOT DATE = 11/15/2023	DATE -	REVISED -

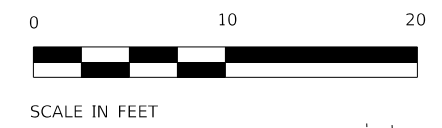
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SIDEWALK RAMP DETAILS  
MILWAUKEE AVENUE**

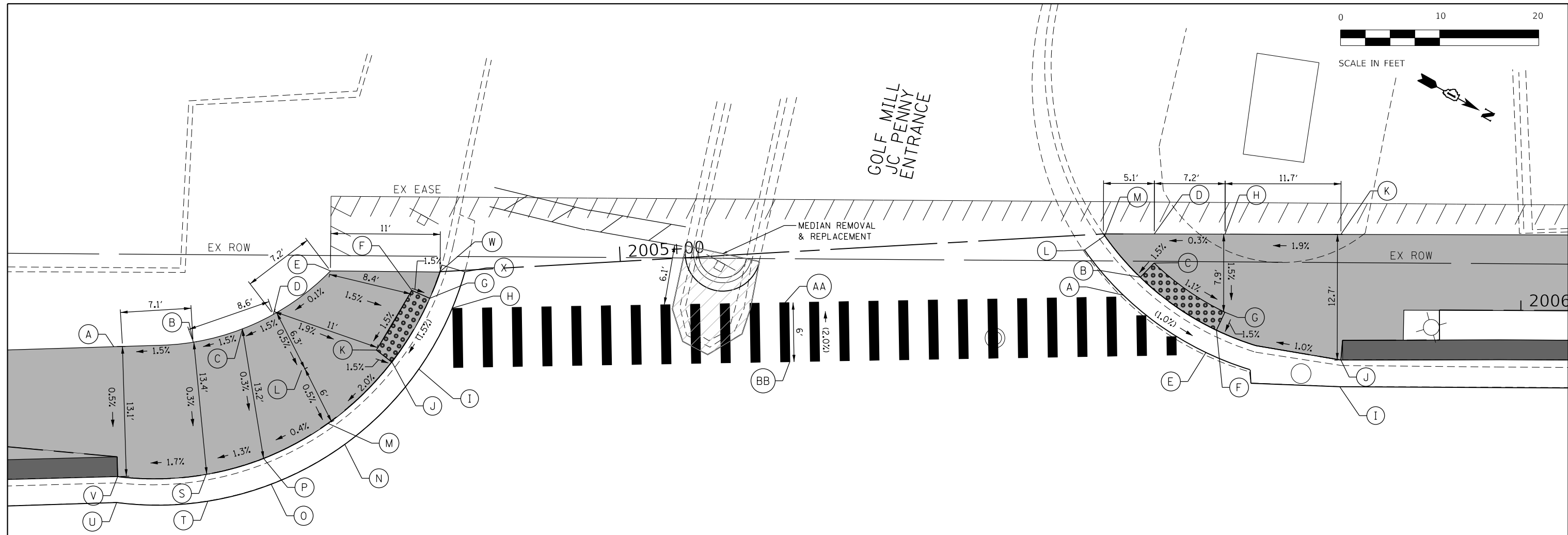
SCALE: 1"=20' SHEET 12 OF 17 SHEETS STA. 585+18 TO STA. 586+75

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	18-00131-00-SW	COOK	145	65
			CONTRACT NO. 61174	
ILLINOIS FED. AID PROJECT				

MODEL: D:\dft\11 FILE NAME: 200452-rh-comp-s-mil01.dgn



GOLF MILL  
JC PENNY  
ENTRANCE



	STATION	OFFSET	ELEVATION		STATION	OFFSET	ELEVATION
A	590+38.75	50.55 LT	660.78	M	590+60.39	42.80 RT	660.97
B	590+46.76	51.00 LT	660.90	N	590+62.06	40.69 RT	(660.62)
C	590+51.73	52.35 LT	660.98	O	590+54.62	36.67 LT	(660.44)
D	590+54.85	53.80 LT	661.03	P	590+53.86	39.28 LT	660.94
E	590+60.62	58.19 LT	661.04	Q	NOT USED		
F	590+68.81	56.23 LT	660.91	R	NOT USED		
G	590+70.63	55.43 LT	660.88	S	590+48.07	37.66 LT	660.86
H	590+72.91	54.43 LT	(660.88)	T	590+48.23	34.96 RT	(660.36)
I	590+69.53	48.28 LT	(660.79)	U	590+39.03	34.82 LT	(660.21)
J	590+66.82	48.98 LT	660.79	V	590+39.13	37.44 LT	660.71
K	590+65.24	50.20 LT	660.82	W	590+71.67	58.11 LT	(661.45)
L	590+57.69	48.16 LT	661.00	X	590+74.17	58.09 LT	(660.94)

	STATION	OFFSET	ELEVATION		STATION	OFFSET	ELEVATION
A	591+40.61	55.74 LT	(661.75)	H	591+50.89	61.89 LT	661.80
B	591+42.34	57.54 LT	661.75	I	591+62.46	46.49 LT	(661.75)
C	591+43.73	58.98 LT	661.78	J	591+62.74	49.18 LT	661.83
D	591+43.73	61.90 LT	661.78	K	591+62.57	61.86 LT	662.02
E	591+48.95	49.95 LT	(661.65)	L	591+36.70	60.29 RT	(661.82)
F	591+50.02	52.21 LT	661.65	M	591+38.74	61.73 LT	661.83
G	591+50.87	54.02 LT	661.68	AA	591+06.48	55.00 LT	(661.42)
				BB	591+06.97	49.02 LT	(661.30)

MILWAUKEE AVENUE

591

EX Q MILWAUKEE AVENUE

REFERENCE BENCHMARK ELEV 659.52  
 BENCHMARK : CHISELED CROSS IN SIDEWALK  
 LOCATION : SOUTHWEST CORNER OF INTERSECTION OF MILWAUKEE AVE AND CHURCH ST.

**LEGEND**

xx.xx'	EXISTING LENGTH		PROPOSED SIDEWALK
( )	EXISTING ELEVATION/SLOPE		PROPOSED STAMPED COLORED PCC SIDEWALK
====	PROPOSED SIDE CURB		DETECTABLE WARNINGS

MODEL: D:\64bit...  
FILE NAME: 200152-rh-comp-smlk02.dgn

USER NAME = bhartma	DESIGNED - CW	REVISED -
PLOT SCALE = 10.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 11/15/2023	CHECKED - BDH	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SIDEWALK RAMP DETAILS  
MILWAUKEE AVENUE**

SCALE: 1"=20' SHEET 13 OF 17 SHEETS STA. 590+28 TO STA. 591+85

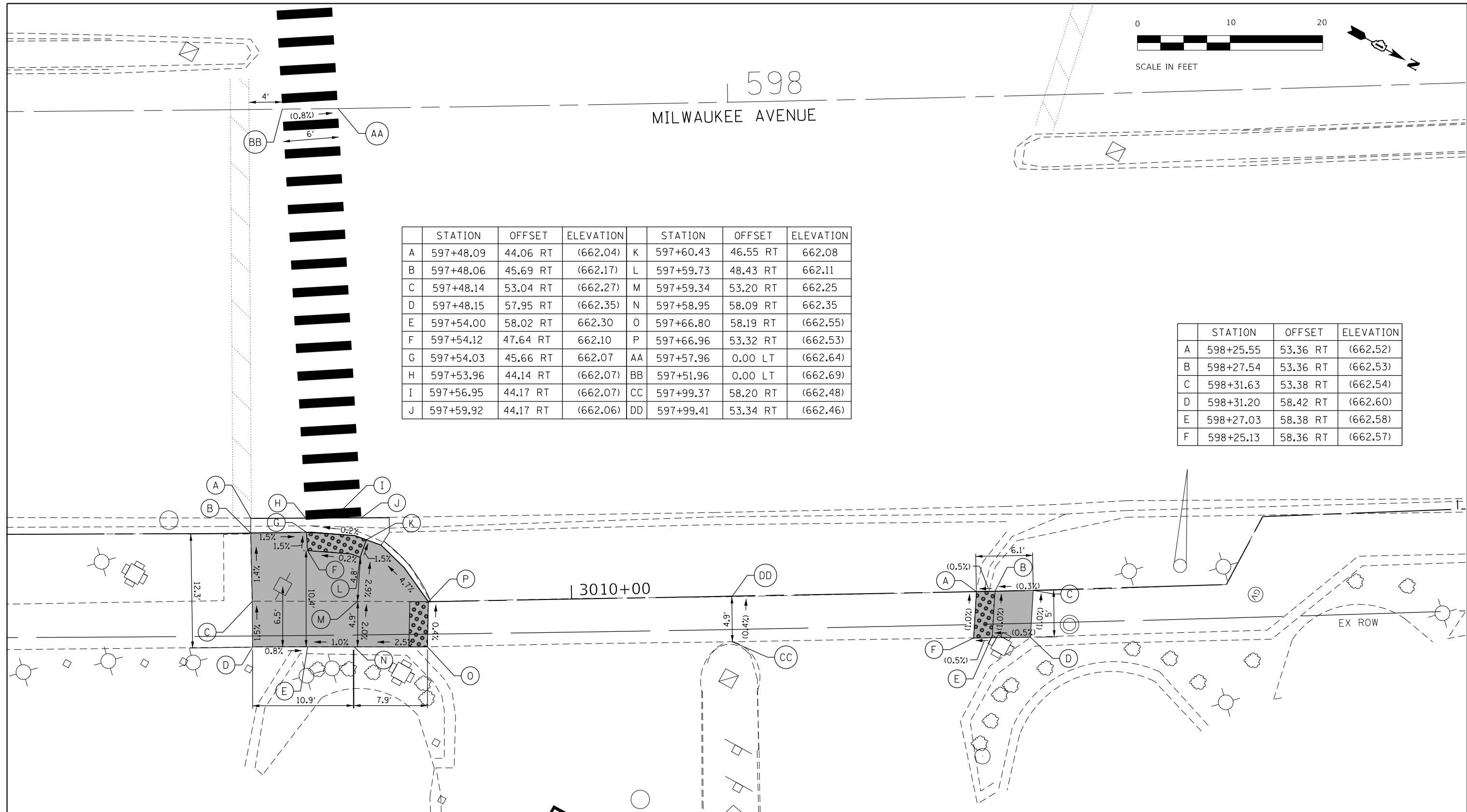
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	18-00131-00-SW	COOK	145	66
CONTRACT NO. 61174				
ILLINOIS FED. AID PROJECT				



598  
MILWAUKEE AVENUE

	STATION	OFFSET	ELEVATION		STATION	OFFSET	ELEVATION
A	597+48.09	44.06 RT	(662.04)	K	597+60.43	46.55 RT	662.08
B	597+48.06	45.69 RT	(662.17)	L	597+59.73	48.43 RT	662.11
C	597+48.14	53.04 RT	(662.27)	M	597+59.34	53.20 RT	662.25
D	597+48.15	57.95 RT	(662.35)	N	597+58.95	58.09 RT	662.35
E	597+54.00	58.02 RT	662.30	O	597+66.80	58.19 RT	(662.55)
F	597+54.12	47.64 RT	662.10	P	597+66.96	53.32 RT	(662.53)
G	597+54.03	45.66 RT	662.07	AA	597+57.96	0.00 LT	(662.64)
H	597+53.96	44.14 RT	(662.07)	BB	597+51.96	0.00 LT	(662.69)
I	597+56.95	44.17 RT	(662.07)	CC	597+99.37	58.20 RT	(662.48)
J	597+59.92	44.17 RT	(662.06)	DD	597+99.41	53.34 RT	(662.46)

	STATION	OFFSET	ELEVATION
A	598+25.55	53.36 RT	(662.52)
B	598+27.54	53.36 RT	(662.53)
C	598+31.63	53.38 RT	(662.54)
D	598+31.20	58.42 RT	(662.60)
E	598+27.03	58.38 RT	(662.58)
F	598+25.13	58.36 RT	(662.57)



REFERENCE BENCHMARK ELEV 682.386  
 BENCHMARK : SET NAIL  
 LOCATION : SOUTHWEST CORNER OF HANDHOLE IN SOUTHWEST CORNER OF INTERSECTION  
 MILWAUKEE AVENUE AND GOLF MILL MAIN ENTRANCE

**LEGEND**

xx.xx'	EXISTING LENGTH		PROPOSED SIDEWALK
( )	EXISTING ELEVATION/SLOPE		PROPOSED STAMPED COLORED PCC SIDEWALK
====	PROPOSED SIDE CURB		DETECTABLE WARNINGS

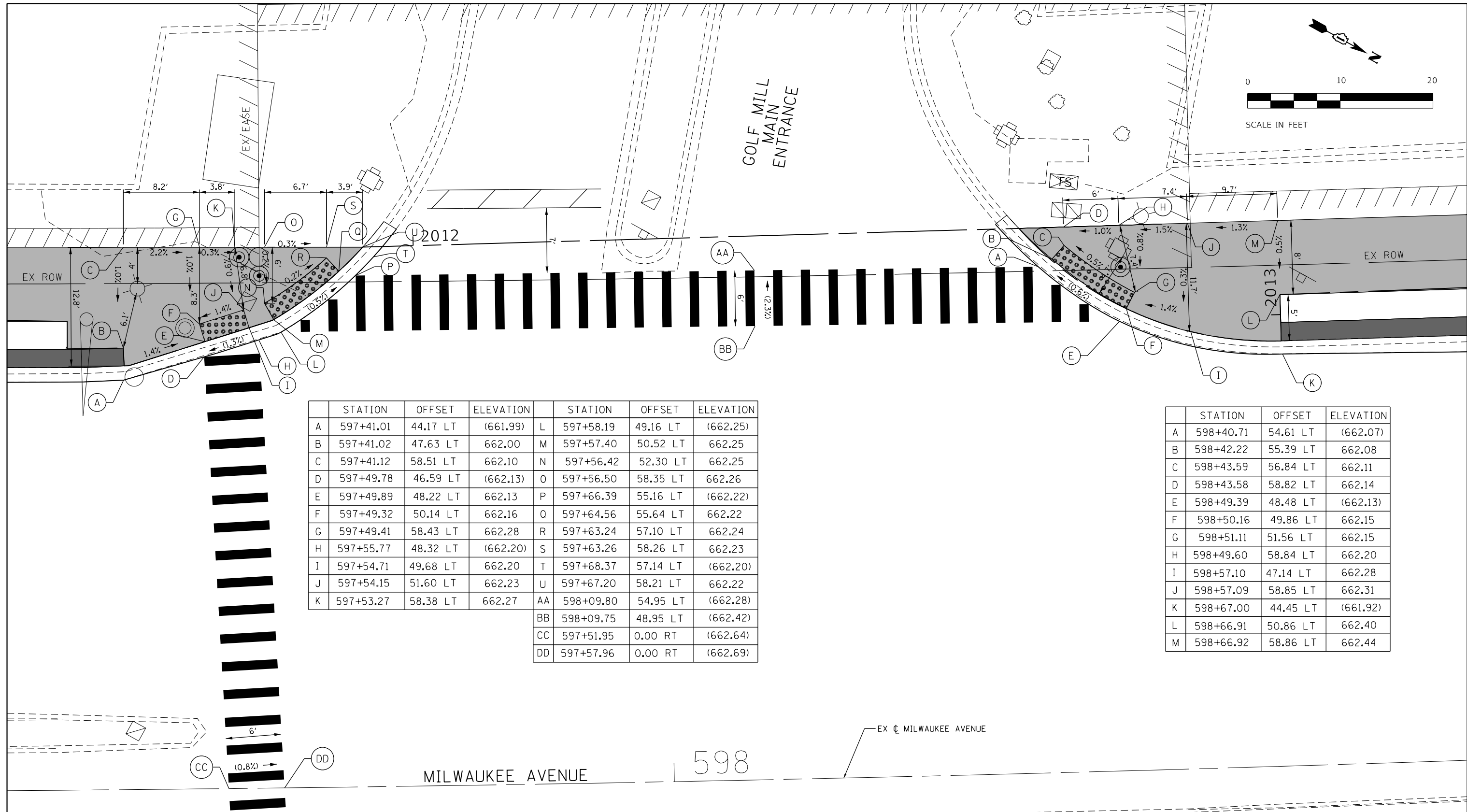
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 FILE NAME: 200452-rh-comp-mil02.dgn

USER NAME = bhartma	DESIGNED - CW	REVISED -
PLOT SCALE = 10.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 11/15/2023	CHECKED - BDH	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>SIDEWALK RAMP DETAILS MILWAUKEE AVENUE</b>	
SCALE: 1"=20'	SHEET 14 OF 17 SHEETS
STA. 593+13	TO STA. 594+70

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	18-00131-00-SW	COOK	145	67
			CONTRACT NO. 61174	
ILLINOIS FED. AID PROJECT				



	STATION	OFFSET	ELEVATION		STATION	OFFSET	ELEVATION
A	597+41.01	44.17 LT	(661.99)	L	597+58.19	49.16 LT	(662.25)
B	597+41.02	47.63 LT	662.00	M	597+57.40	50.52 LT	662.25
C	597+41.12	58.51 LT	662.10	N	597+56.42	52.30 LT	662.25
D	597+49.78	46.59 LT	(662.13)	O	597+56.50	58.35 LT	662.26
E	597+49.89	48.22 LT	662.13	P	597+66.39	55.16 LT	(662.22)
F	597+49.32	50.14 LT	662.16	Q	597+64.56	55.64 LT	662.22
G	597+49.41	58.43 LT	662.28	R	597+63.24	57.10 LT	662.24
H	597+55.77	48.32 LT	(662.20)	S	597+63.26	58.26 LT	662.23
I	597+54.71	49.68 LT	662.20	T	597+68.37	57.14 LT	(662.20)
J	597+54.15	51.60 LT	662.23	U	597+67.20	58.21 LT	662.22
K	597+53.27	58.38 LT	662.27	AA	598+09.80	54.95 LT	(662.28)
				BB	598+09.75	48.95 LT	(662.42)
				CC	597+51.95	0.00 RT	(662.64)
				DD	597+57.96	0.00 RT	(662.69)

	STATION	OFFSET	ELEVATION
A	598+40.71	54.61 LT	(662.07)
B	598+42.22	55.39 LT	662.08
C	598+43.59	56.84 LT	662.11
D	598+43.58	58.82 LT	662.14
E	598+49.39	48.48 LT	(662.13)
F	598+50.16	49.86 LT	662.15
G	598+51.11	51.56 LT	662.15
H	598+49.60	58.84 LT	662.20
I	598+57.10	47.14 LT	662.28
J	598+57.09	58.85 LT	662.31
K	598+67.00	44.45 LT	(661.92)
L	598+66.91	50.86 LT	662.40
M	598+66.92	58.86 LT	662.44

REFERENCE BENCHMARK ELEV 682.386  
 BENCHMARK : SET NAIL  
 LOCATION : SOUTHWEST CORNER OF HANDHOLE IN SOUTHWEST CORNER OF INTERSECTION  
 MILWAUKEE AVENUE AND GOLF MILL MAIN ENTRANCE

**LEGEND**

<span style="border: 1px solid black; padding: 2px;">xx.xx'</span>	EXISTING LENGTH		PROPOSED SIDEWALK
( )	EXISTING ELEVATION/SLOPE		PROPOSED STAMPED COLORED PCC SIDEWALK
	PROPOSED SIDE CURB		DETECTABLE WARNINGS

MODEL: D:\64bit...  
 FILE NAME: 200152-rh-comp-smlk04.dgn

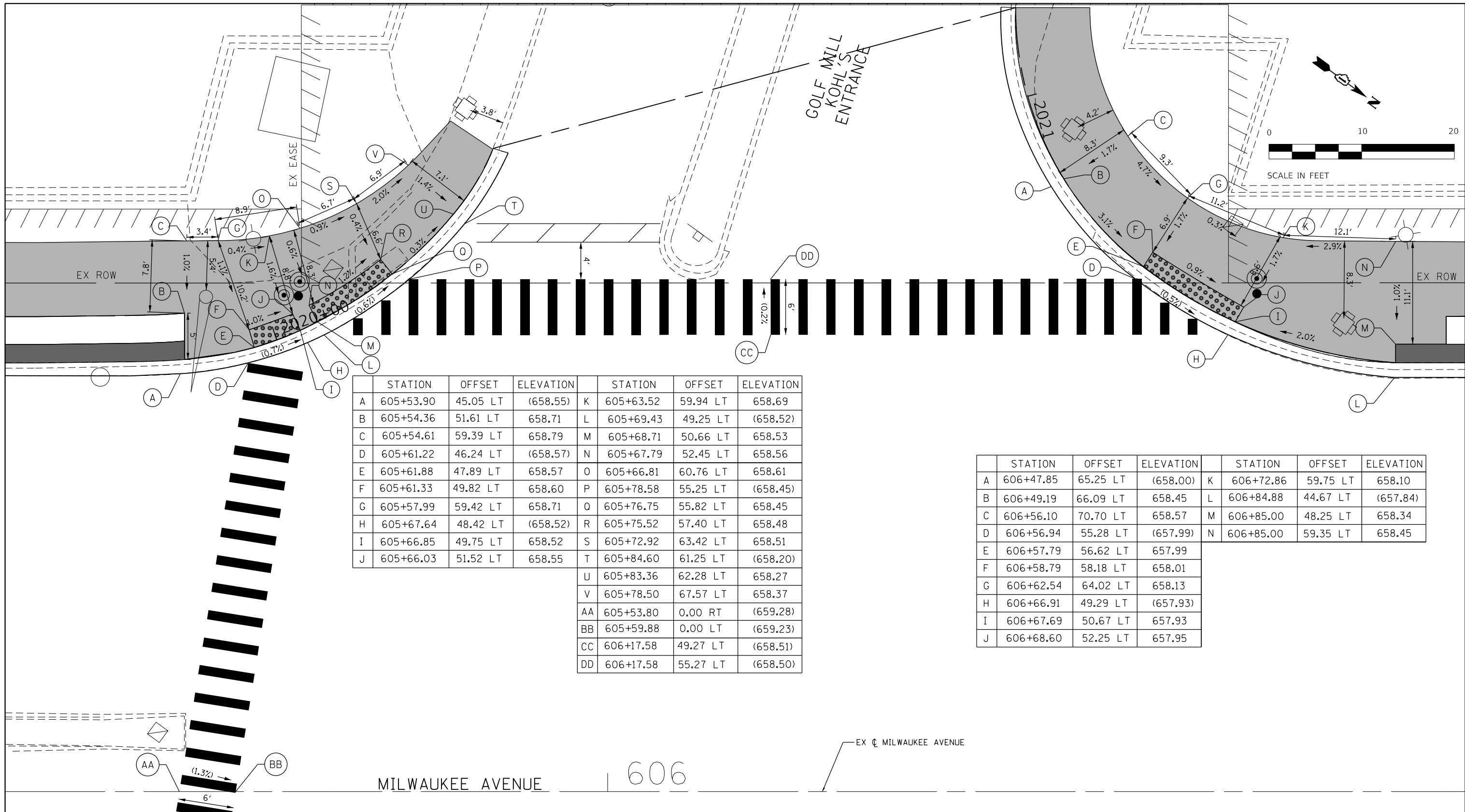
USER NAME = bhartma	DESIGNED - CW	REVISED -
PLOT SCALE = 10.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 11/15/2023	CHECKED - BDH	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SIDEWALK RAMP DETAILS  
 MILWAUKEE AVENUE**

SCALE: 1"=20'    SHEET 15 OF 17 SHEETS    STA. 597+28    TO STA. 598+85

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	18-00131-00-SW	COOK	145	68
			CONTRACT NO. 61174	
ILLINOIS FED. AID PROJECT				



	STATION	OFFSET	ELEVATION		STATION	OFFSET	ELEVATION
A	605+53.90	45.05 LT	(658.55)	K	605+63.52	59.94 LT	658.69
B	605+54.36	51.61 LT	658.71	L	605+69.43	49.25 LT	(658.52)
C	605+54.61	59.39 LT	658.79	M	605+68.71	50.66 LT	658.53
D	605+61.22	46.24 LT	(658.57)	N	605+67.79	52.45 LT	658.56
E	605+61.88	47.89 LT	658.57	O	605+66.81	60.76 LT	658.61
F	605+61.33	49.82 LT	658.60	P	605+78.58	55.25 LT	(658.45)
G	605+57.99	59.42 LT	658.71	Q	605+76.75	55.82 LT	658.45
H	605+67.64	48.42 LT	(658.52)	R	605+75.52	57.40 LT	658.48
I	605+66.85	49.75 LT	658.52	S	605+72.92	63.42 LT	658.51
J	605+66.03	51.52 LT	658.55	T	605+84.60	61.25 LT	(658.20)
				U	605+83.36	62.28 LT	658.27
				V	605+78.50	67.57 LT	658.37
				AA	605+53.80	0.00 RT	(659.28)
				BB	605+59.88	0.00 LT	(659.23)
				CC	606+17.58	49.27 LT	(658.51)
				DD	606+17.58	55.27 LT	(658.50)

	STATION	OFFSET	ELEVATION		STATION	OFFSET	ELEVATION
A	606+47.85	65.25 LT	(658.00)	K	606+72.86	59.75 LT	658.10
B	606+49.19	66.09 LT	658.45	L	606+84.88	44.67 LT	(657.84)
C	606+56.10	70.70 LT	658.57	M	606+85.00	48.25 LT	658.34
D	606+56.94	55.28 LT	(657.99)	N	606+85.00	59.35 LT	658.45
E	606+57.79	56.62 LT	657.99				
F	606+58.79	58.18 LT	658.01				
G	606+62.54	64.02 LT	658.13				
H	606+66.91	49.29 LT	(657.93)				
I	606+67.69	50.67 LT	657.93				
J	606+68.60	52.25 LT	657.95				

MILWAUKEE AVENUE

606

EX CL MILWAUKEE AVENUE

**LEGEND**

- xx.xx' EXISTING LENGTH
- ( ) EXISTING ELEVATION/SLOPE
- ===== PROPOSED SIDE CURB
- [Shaded Box] PROPOSED SIDEWALK
- [Dark Shaded Box] PROPOSED STAMPED COLORED PCC SIDEWALK
- [Dotted Box] DETECTABLE WARNINGS

REFERENCE BENCHMARK ELEV 655.273  
 BENCHMARK : NILES MONUMENT #23  
 LOCATION : SOUTHWEST CORNER OF MILWAUKEE AVENUE AT GOLF ROAD

MODEL: Default  
 FILE NAME: 200452-rh-comp-mil05.dgn

USER NAME = bhartma	DESIGNED - CW	REVISED -
PLOT SCALE = 10.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 11/15/2023	CHECKED - BDH	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SIDEWALK RAMP DETAILS  
 MILWAUKEE AVENUE**

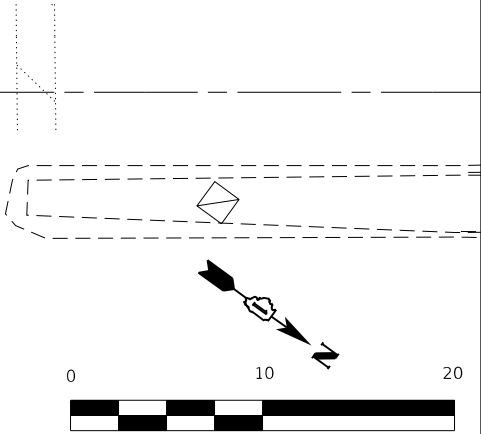
SCALE: 1"=20' SHEET 16 OF 17 SHEETS STA. 605+35 TO STA. 606+92

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	18-00131-00-SW	COOK	145	69
			CONTRACT NO. 61174	
ILLINOIS FED. AID PROJECT				

606  
MILWAUKEE AVENUE

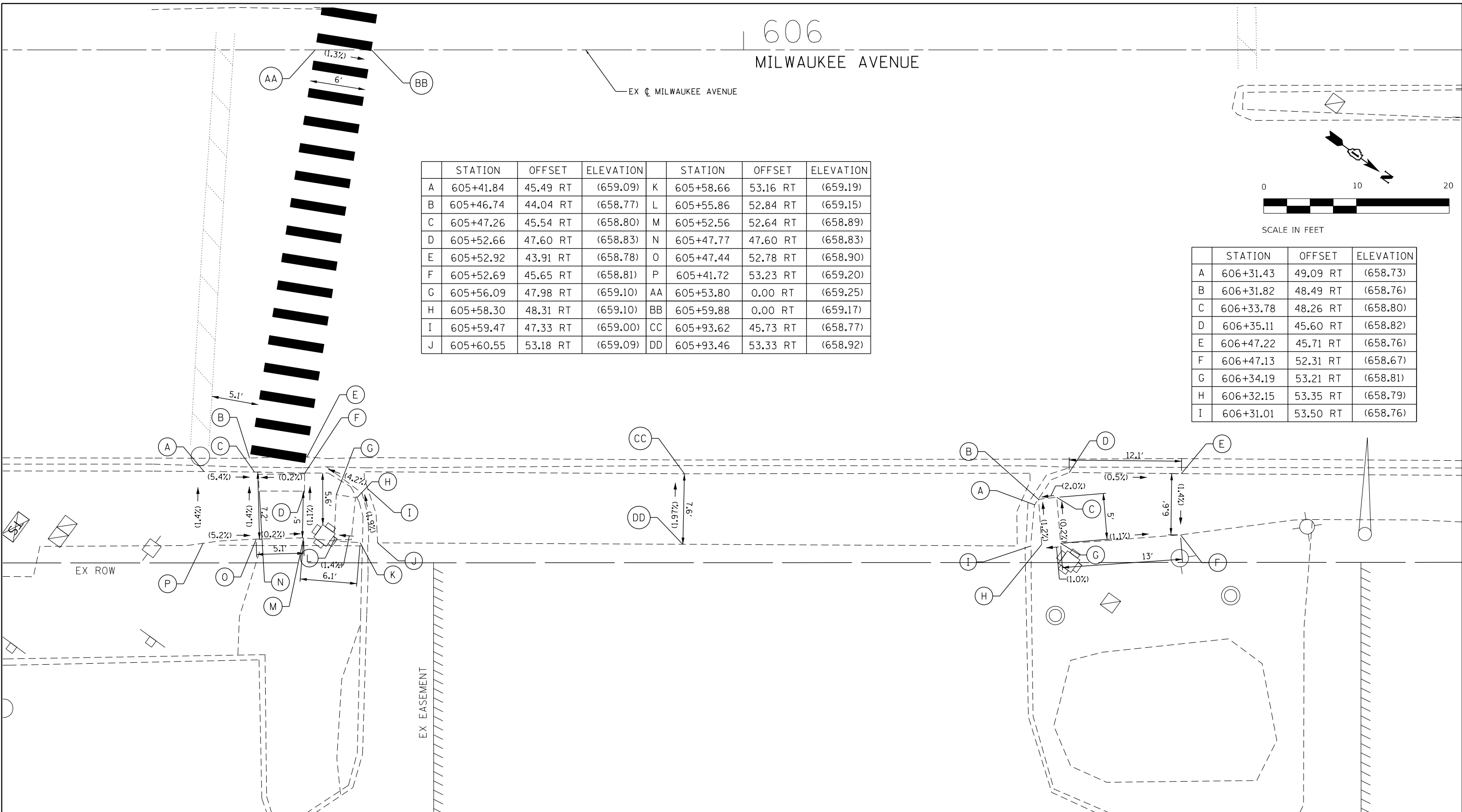
EX  $\nabla$  MILWAUKEE AVENUE

	STATION	OFFSET	ELEVATION		STATION	OFFSET	ELEVATION	
	A	605+41.84	45.49 RT	(659.09)	K	605+58.66	53.16 RT	(659.19)
	B	605+46.74	44.04 RT	(658.77)	L	605+55.86	52.84 RT	(659.15)
	C	605+47.26	45.54 RT	(658.80)	M	605+52.56	52.64 RT	(658.89)
	D	605+52.66	47.60 RT	(658.83)	N	605+47.77	47.60 RT	(658.83)
	E	605+52.92	43.91 RT	(658.78)	O	605+47.44	52.78 RT	(658.90)
	F	605+52.69	45.65 RT	(658.81)	P	605+41.72	53.23 RT	(659.20)
	G	605+56.09	47.98 RT	(659.10)	AA	605+53.80	0.00 RT	(659.25)
	H	605+58.30	48.31 RT	(659.10)	BB	605+59.88	0.00 RT	(659.17)
	I	605+59.47	47.33 RT	(659.00)	CC	605+93.62	45.73 RT	(658.77)
	J	605+60.55	53.18 RT	(659.09)	DD	605+93.46	53.33 RT	(658.92)



SCALE IN FEET

	STATION	OFFSET	ELEVATION
A	606+31.43	49.09 RT	(658.73)
B	606+31.82	48.49 RT	(658.76)
C	606+33.78	48.26 RT	(658.80)
D	606+35.11	45.60 RT	(658.82)
E	606+47.22	45.71 RT	(658.76)
F	606+47.13	52.31 RT	(658.67)
G	606+34.19	53.21 RT	(658.81)
H	606+32.15	53.35 RT	(658.79)
I	606+31.01	53.50 RT	(658.76)



REFERENCE BENCHMARK ELEV 655.273  
 BENCHMARK : NILES MONUMENT #23  
 LOCATION : SOUTHWEST CORNER OF MILWAUKEE AVENUE AT GOLF ROAD

**LEGEND**

<span style="border: 1px solid black; padding: 2px;">xx.xx'</span>	EXISTING LENGTH		PROPOSED SIDEWALK
( )	EXISTING ELEVATION/SLOPE		PROPOSED STAMPED COLORED PCC SIDEWALK
====	PROPOSED SIDE CURB		DETECTABLE WARNINGS

MODEL: D:\p1\11152023\18-00131-00-5W-comp\18-00131-00-5W.dgn

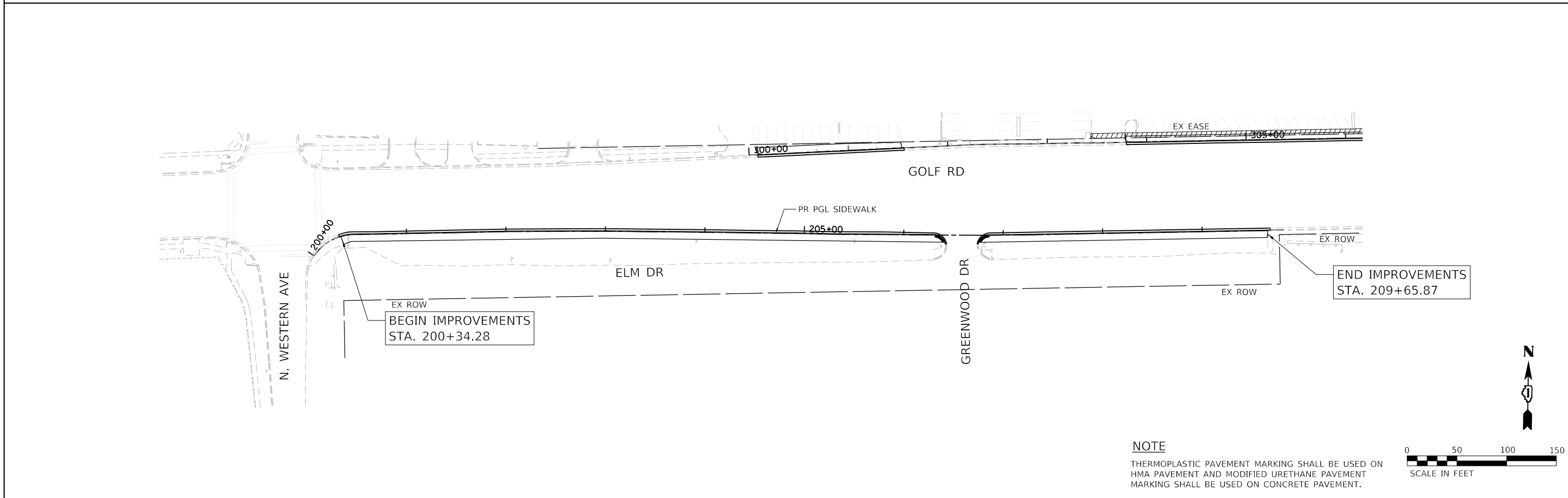
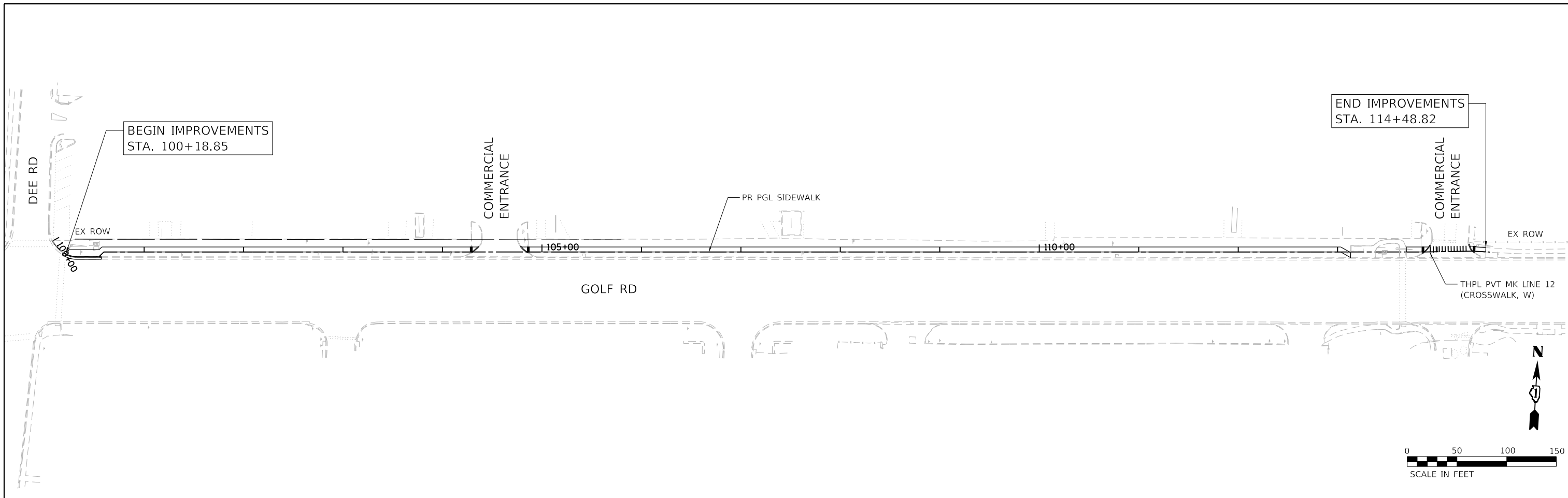
USER NAME = bhartma	DESIGNED - CW	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 10.0000 ' / in.	CHECKED - BDH	REVISED -
PLOT DATE = 11/15/2023	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SIDEWALK RAMP DETAILS  
MILWAUKEE AVENUE

SCALE: 1"=20' SHEET 17 OF 17 SHEETS STA. 605+35 TO STA. 606+92

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	18-00131-00-5W	COOK	145	70
			CONTRACT NO. 61174	
ILLINOIS FED. AID PROJECT				



**NOTE**  
 THERMOPLASTIC PAVEMENT MARKING SHALL BE USED ON  
 HMA PAVEMENT AND MODIFIED URETHANE PAVEMENT  
 MARKING SHALL BE USED ON CONCRETE PAVEMENT.

HRG PROJECT NO: 200452  
 HRG PROJ CONTACT:  
 FILE NAME: 200452-shr-pmk-golf-01.dgn  
 PEN TABLE: 1/15/2023.tbl

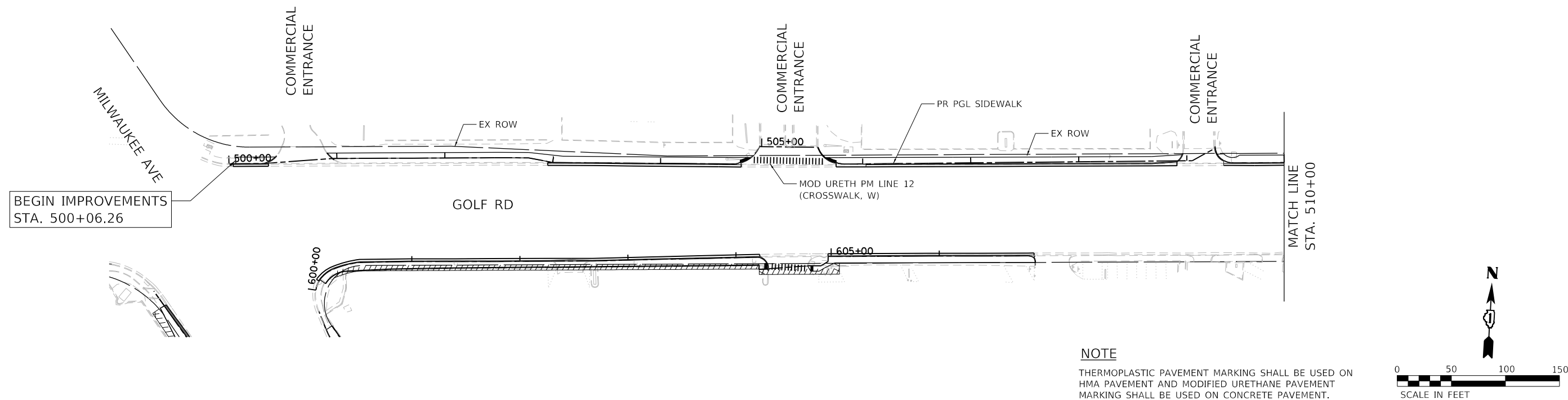
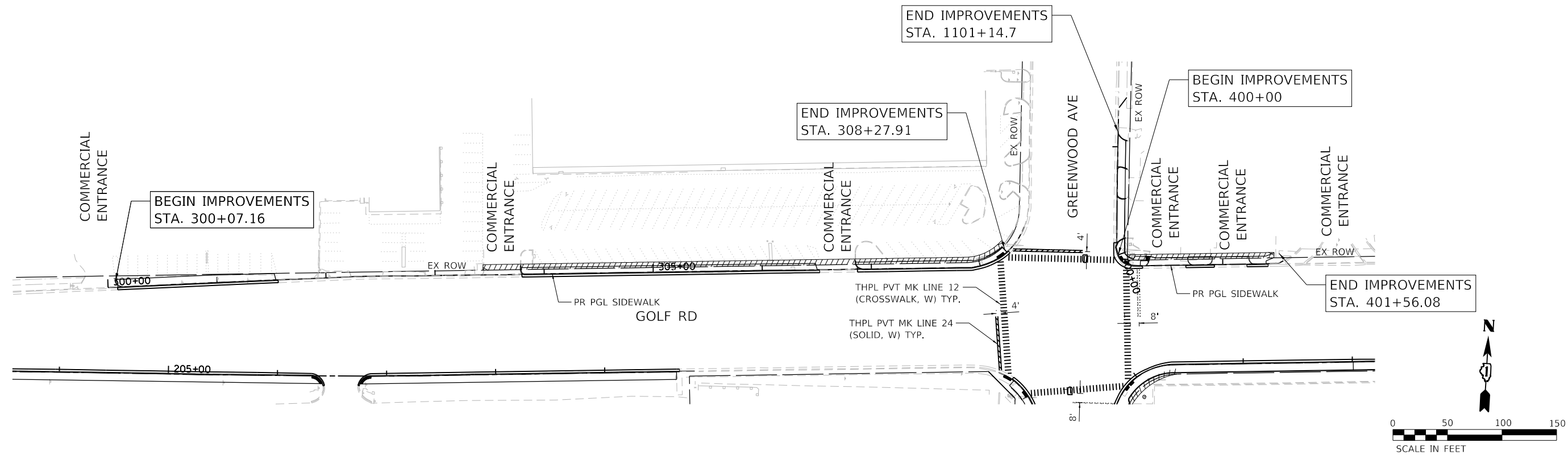


USER NAME = bhartma	DESIGNED - CW	REVISED -
	DRAWN - WJH	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED - BDH	REVISED -
PLOT DATE = 11/15/2023	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>PAVEMENT MARKING PLAN GOLF ROAD</b>			
SCALE: 1"=50'	SHEET	OF SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	18-00131-00-SW	COOK	145	71
			CONTRACT NO. 61174	
		ILLINOIS FED. AID PROJECT		



**NOTE**  
 THERMOPLASTIC PAVEMENT MARKING SHALL BE USED ON HMA PAVEMENT AND MODIFIED URETHANE PAVEMENT MARKING SHALL BE USED ON CONCRETE PAVEMENT.

HRG PROJECT NO: 200452  
 HRG PROJ CONTACT:  
 FILE NAME: 200452-shr-pmk-golf-02.dgn  
 PEN TABLE: p101tbl.tbl



USER NAME = bhartma	DESIGNED - CW	REVISED -
PLOT SCALE = 100.0000' / in.	DRAWN - WJH	REVISED -
PLOT DATE = 11/15/2023	CHECKED - BDH	REVISED -
	DATE -	REVISED -

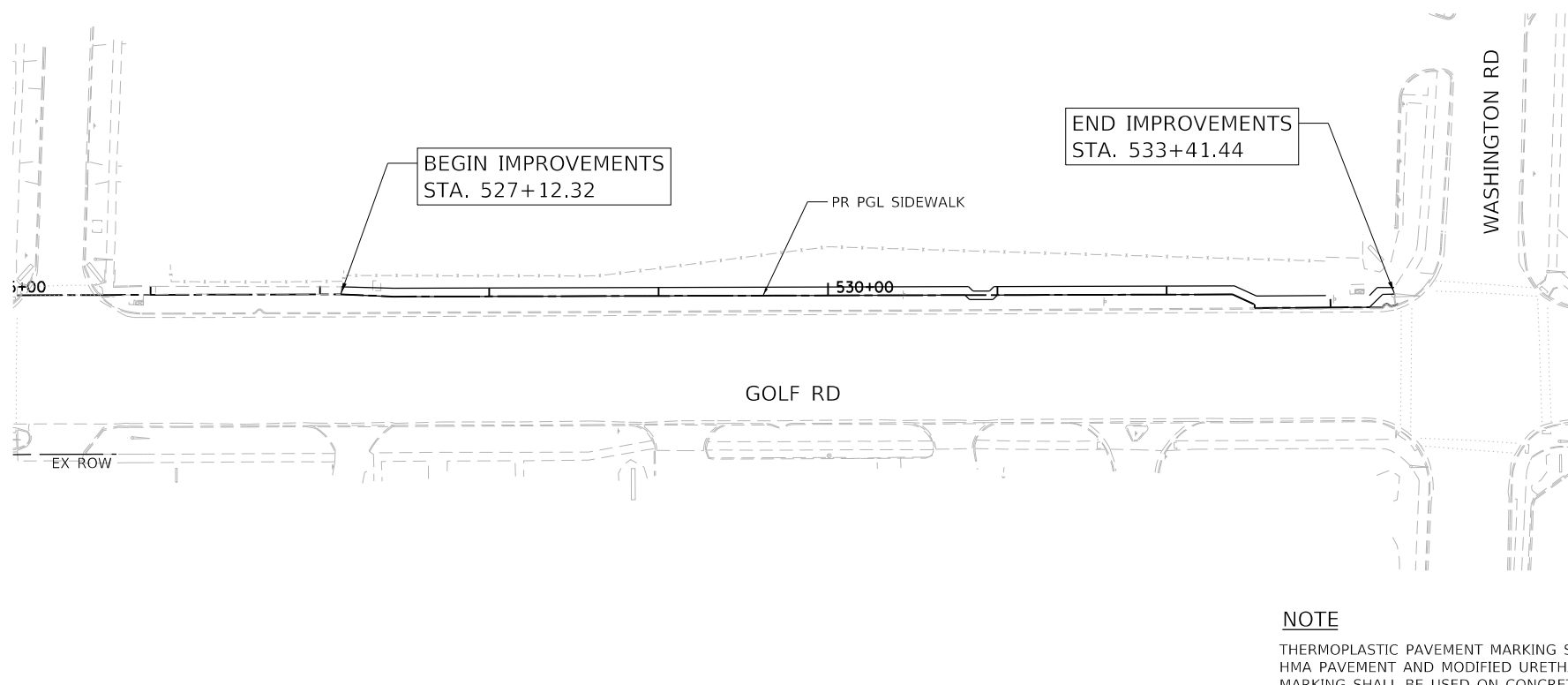
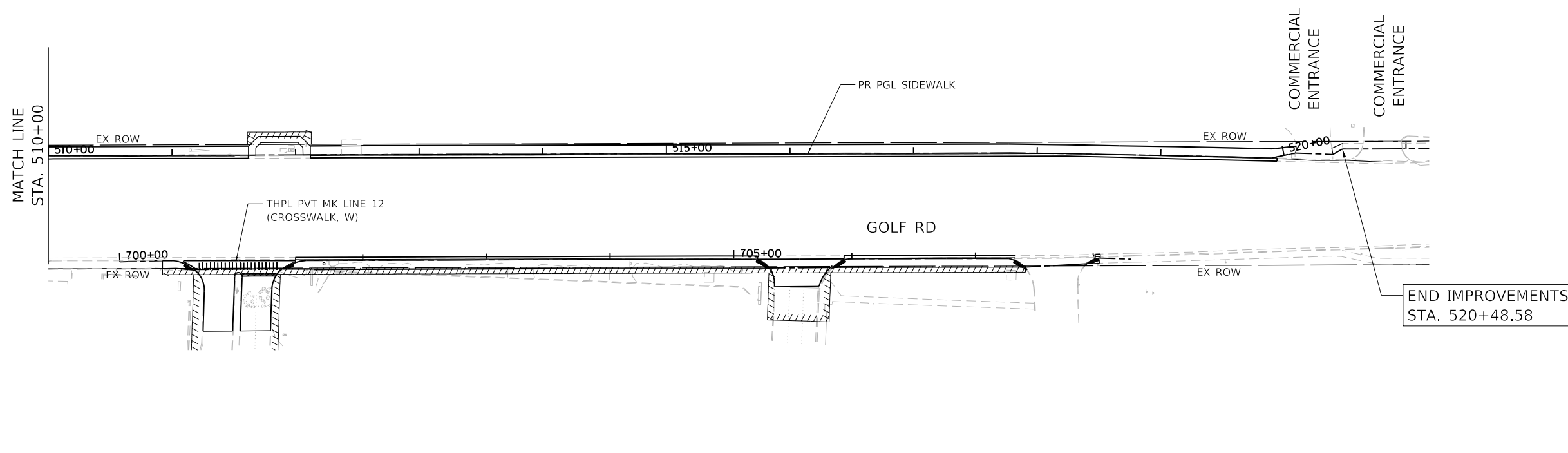
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING PLAN  
 GOLF ROAD**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	18-00131-00-SW	COOK	145	72
CONTRACT NO. 61174			ILLINOIS FED. AID PROJECT	





**NOTE**

THERMOPLASTIC PAVEMENT MARKING SHALL BE USED ON HMA PAVEMENT AND MODIFIED URETHANE PAVEMENT MARKING SHALL BE USED ON CONCRETE PAVEMENT.

HRG PROJECT NO: 200452  
 HRG PROJ CONTACT:  
 FILE NAME: 200452-SHT-PMK-GOLF-03.dgn  
 PEN TABLE: p101tbl.tbl



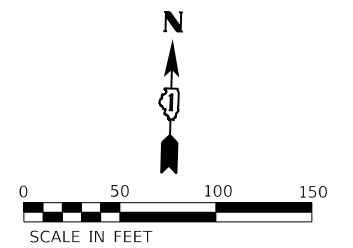
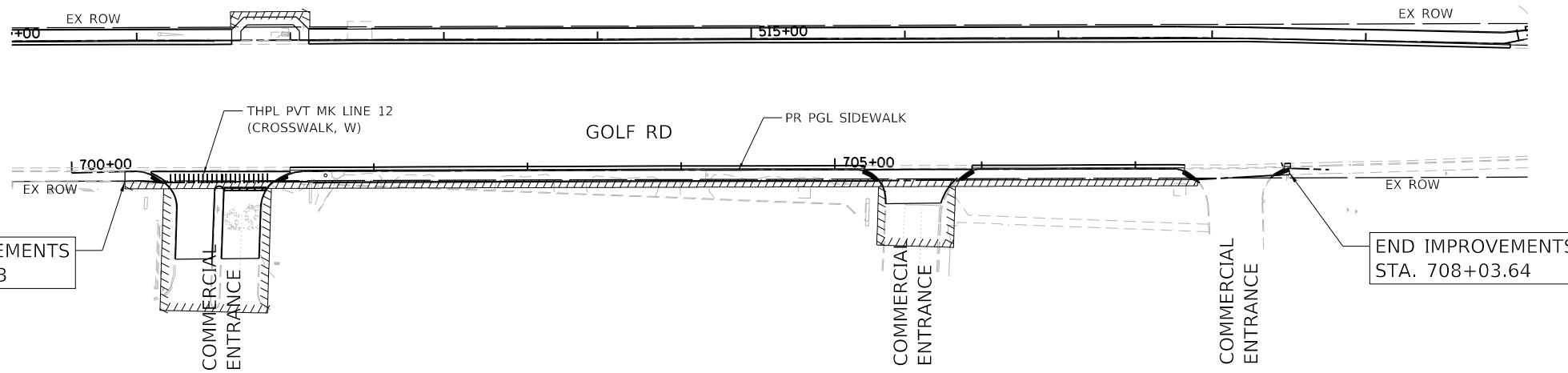
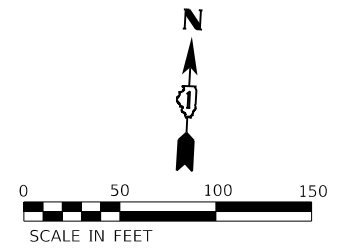
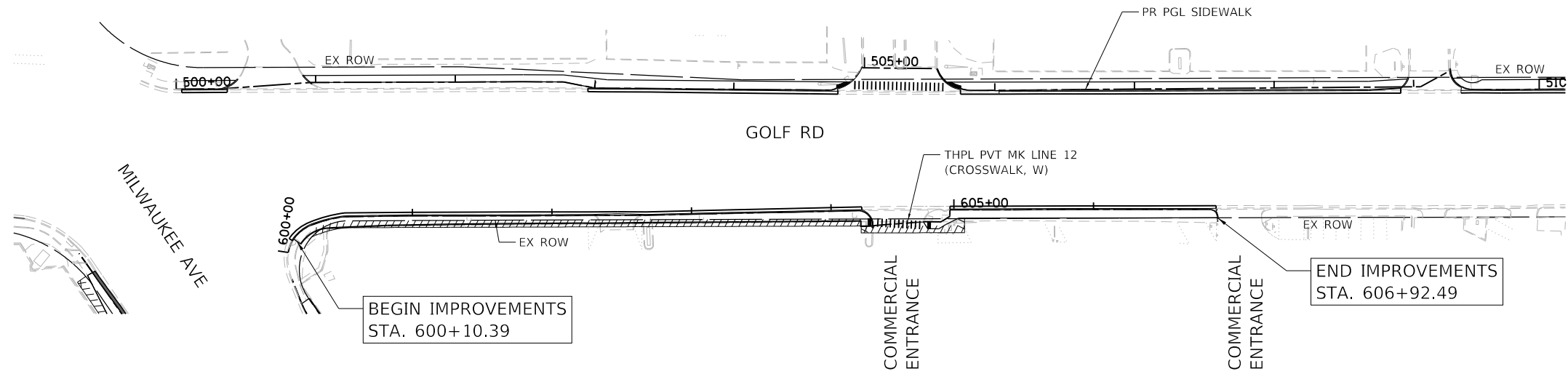
USER NAME = bhartma	DESIGNED - CW	REVISED -
PLOT SCALE = 100.0000' / in.	DRAWN - WJH	REVISED -
PLOT DATE = 11/15/2023	CHECKED - BDH	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING PLAN  
GOLF ROAD**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	18-00131-00-SW	COOK	145	73
			CONTRACT NO. 61174	
ILLINOIS FED. AID PROJECT				



**NOTE**  
 THERMOPLASTIC PAVEMENT MARKING SHALL BE USED ON HMA PAVEMENT AND MODIFIED URETHANE PAVEMENT MARKING SHALL BE USED ON CONCRETE PAVEMENT.

HRG PROJECT NO: 200452  
 HRG PROJ CONTACT:  
 FILE NAME: 200452-SHT-PMK-GOLF-04.dgn  
 PEN TABLE: 1/10/2023



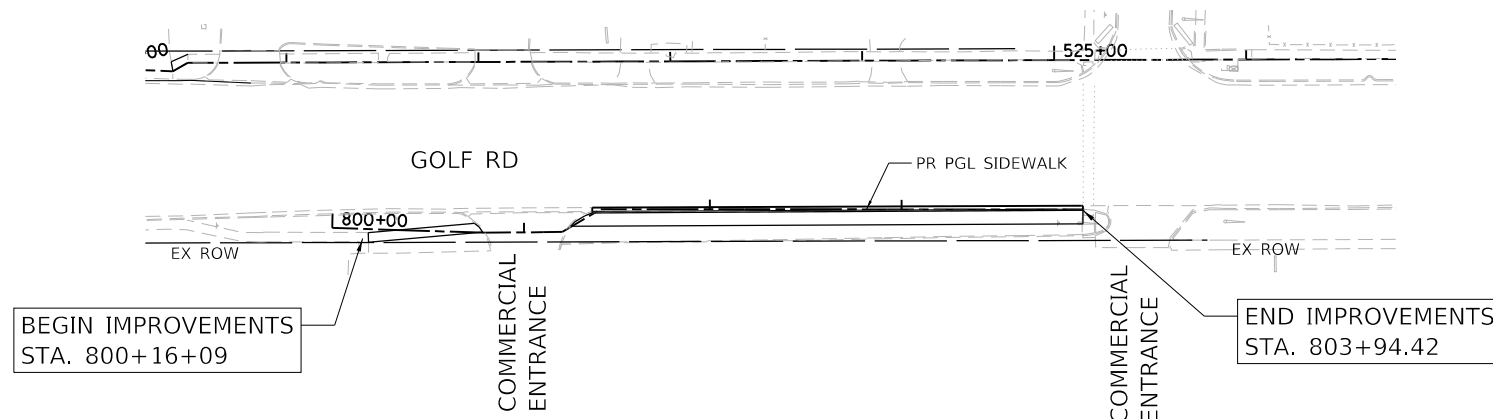
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	DRAWN - WJH	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED - BDH	REVISED -
PLOT DATE = 11/15/2023	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING PLAN  
 GOLF ROAD**

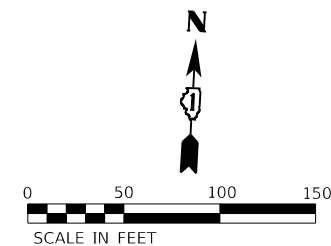
SCALE: 1"=50'    SHEET    OF    SHEETS    STA.    TO    STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	18-00131-00-SW	COOK	145	74
			CONTRACT NO. 61174	
		ILLINOIS	FED. AID PROJECT	



**NOTE**

THERMOPLASTIC PAVEMENT MARKING SHALL BE USED ON HMA PAVEMENT AND MODIFIED URETHANE PAVEMENT MARKING SHALL BE USED ON CONCRETE PAVEMENT.



HRG PROJECT NO: 200452  
 HRG PROJ CONTACT:  
 FILE NAME: 200452-SHT-PMK-GOLF-05.dgn  
 PEN TABLE: p101tbl.tbl



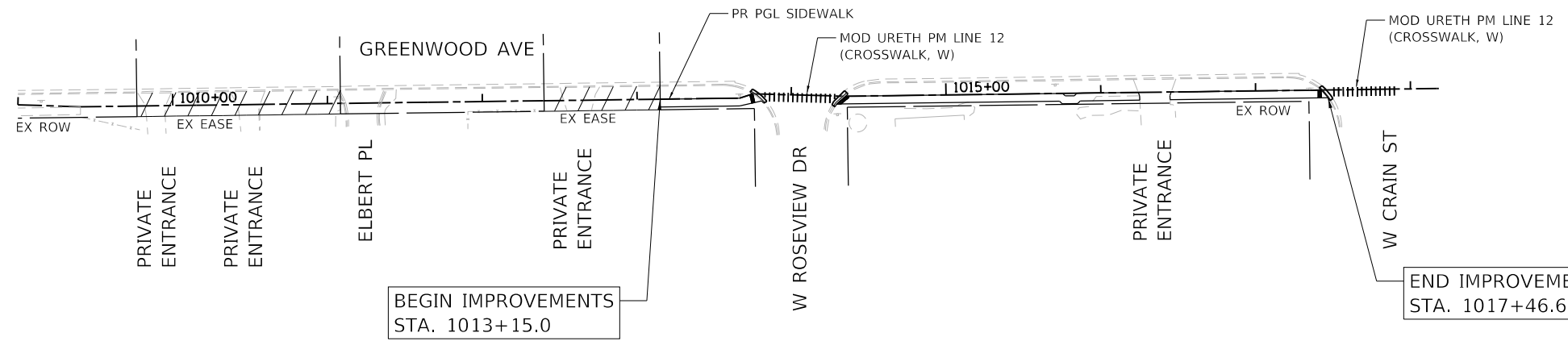
USER NAME = bhartma	DESIGNED - CW	REVISED -
	DRAWN - WJH	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED - BDH	REVISED -
PLOT DATE = 11/15/2023	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

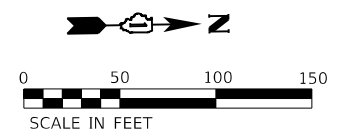
**PAVEMENT MARKING PLAN  
 GOLF ROAD**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	18-00131-00-SW	COOK	145	75
CONTRACT NO. 61174			ILLINOIS FED. AID PROJECT	



**NOTE**  
 THERMOPLASTIC PAVEMENT MARKING SHALL BE USED ON  
 HMA PAVEMENT AND MODIFIED URETHANE PAVEMENT  
 MARKING SHALL BE USED ON CONCRETE PAVEMENT.



HRG PROJECT NO: 200452  
 HRG PROJ CONTACT:  
 FILE NAME: 200452-shr-pmk-grnw-04.dgn  
 PLOT DATE: 11/15/2023  
 PEN TABLE: plot.tbl

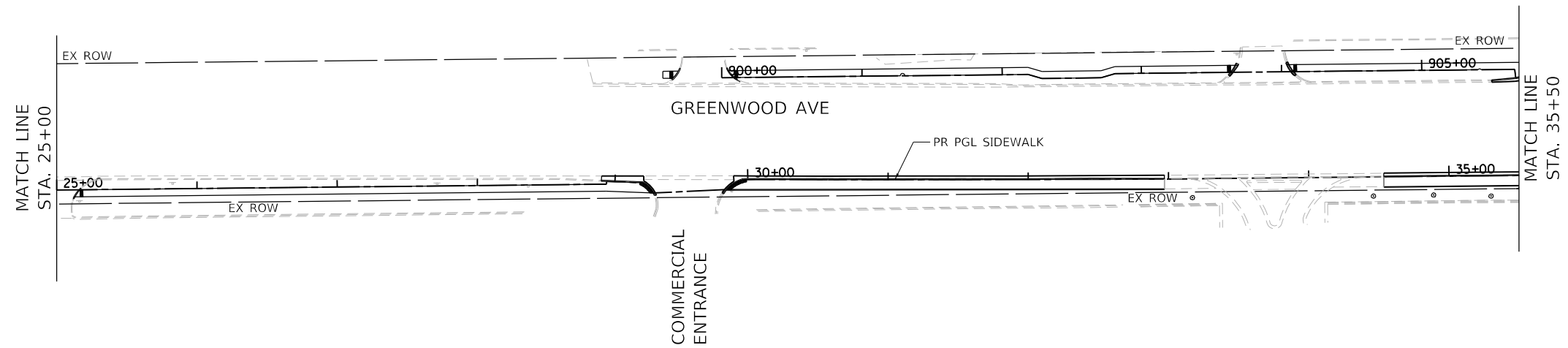
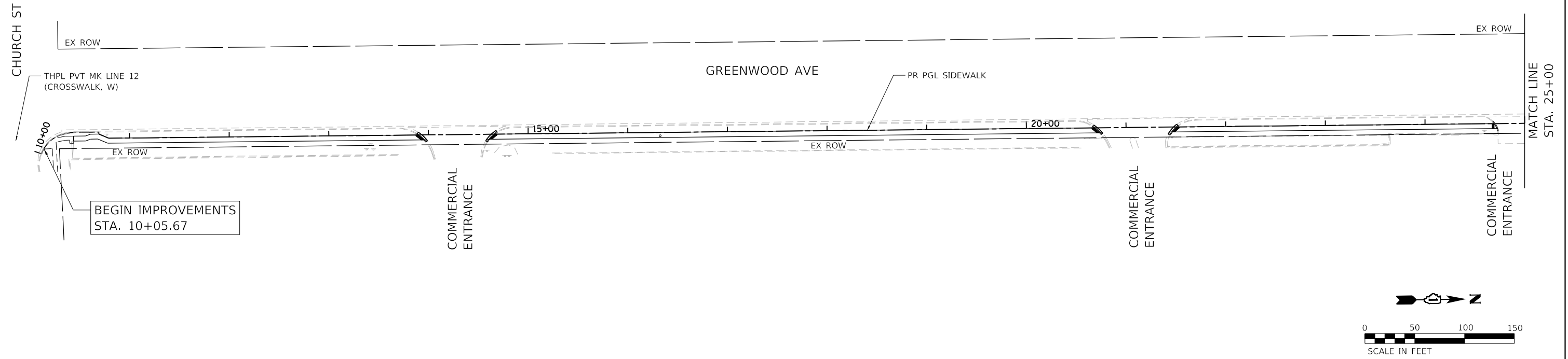


USER NAME = bhartma	DESIGNED - CW	REVISED -
	DRAWN - WJH	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED - BDH	REVISED -
PLOT DATE = 11/15/2023	DATE -	REVISED -

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

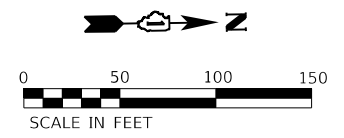
**PAVEMENT MARKING PLAN**  
**GREENWOOD AVENUE**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	18-00131-00-SW	COOK	145	76
CONTRACT NO.			61174	
SCALE: 1"=50'		SHEET OF SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT



**NOTE**

THERMOPLASTIC PAVEMENT MARKING SHALL BE USED ON HMA PAVEMENT AND MODIFIED URETHANE PAVEMENT MARKING SHALL BE USED ON CONCRETE PAVEMENT.



HRG PROJECT NO.: 200452  
 HRG PROJ. CONTACT:  
 FILE NAME: 200452-SHT-PMK-GRNWD-02.dgn  
 PEN TABLE: p101tbl.tbl



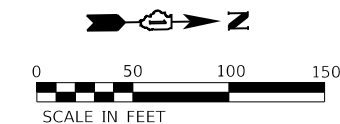
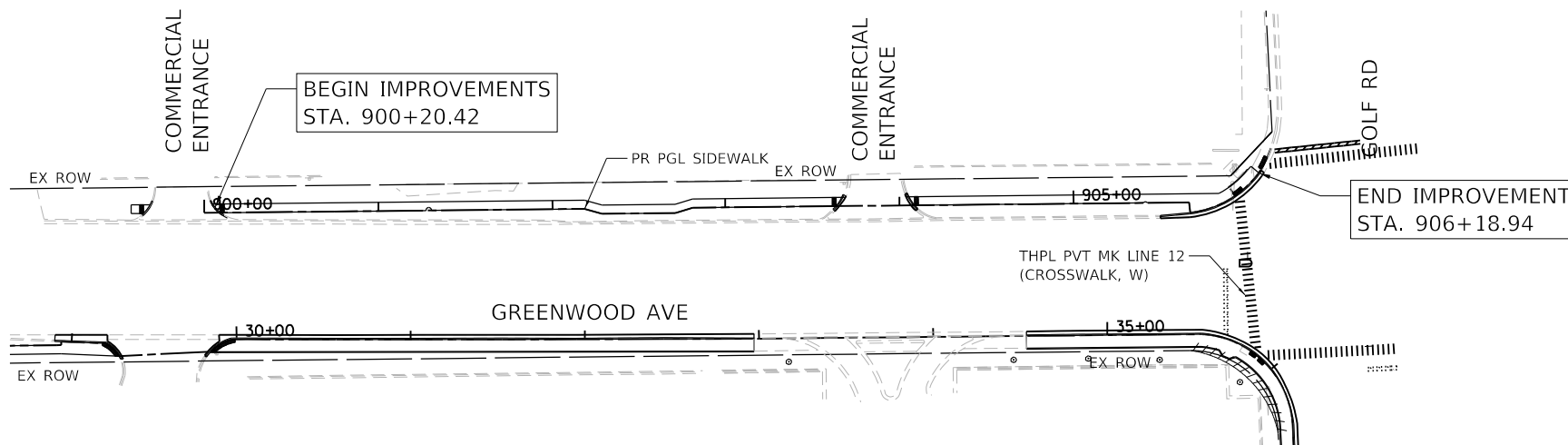
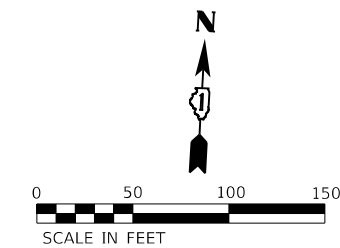
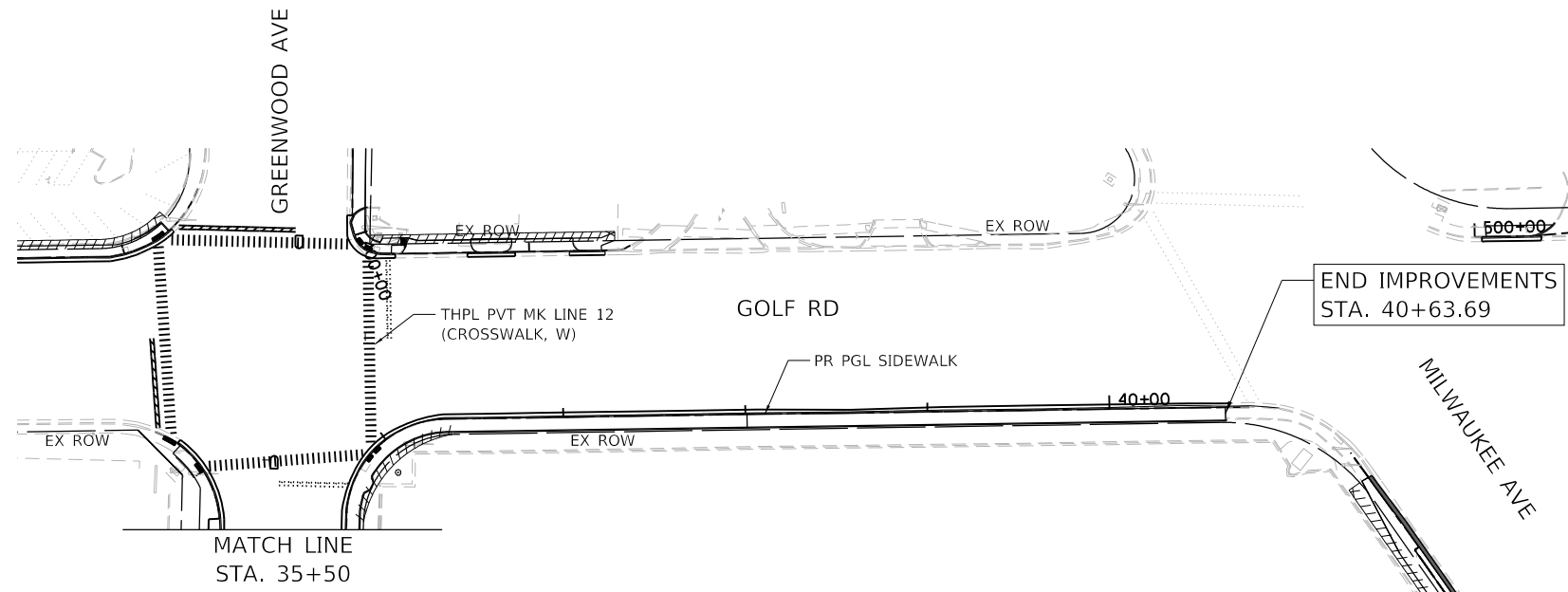
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PLOT SCALE = 100.0000' / in.	DRAWN - WJH	REVISED -
PLOT DATE = 11/15/2023	CHECKED - BDH	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING PLAN  
GREENWOOD AVENUE**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	18-00131-00-SW	COOK	145	77
			CONTRACT NO. 61174	
		ILLINOIS FED. AID PROJECT		



**NOTE**

THERMOPLASTIC PAVEMENT MARKING SHALL BE USED ON HMA PAVEMENT AND MODIFIED URETHANE PAVEMENT MARKING SHALL BE USED ON CONCRETE PAVEMENT.

HRG PROJECT NO.: 200452  
 HRG PROJ. CONTACT:  
 FILE NAME: 200452-SHT-PAV-MK-GRNWD-03.dgn  
 PEN TABLE: 1/15/2023



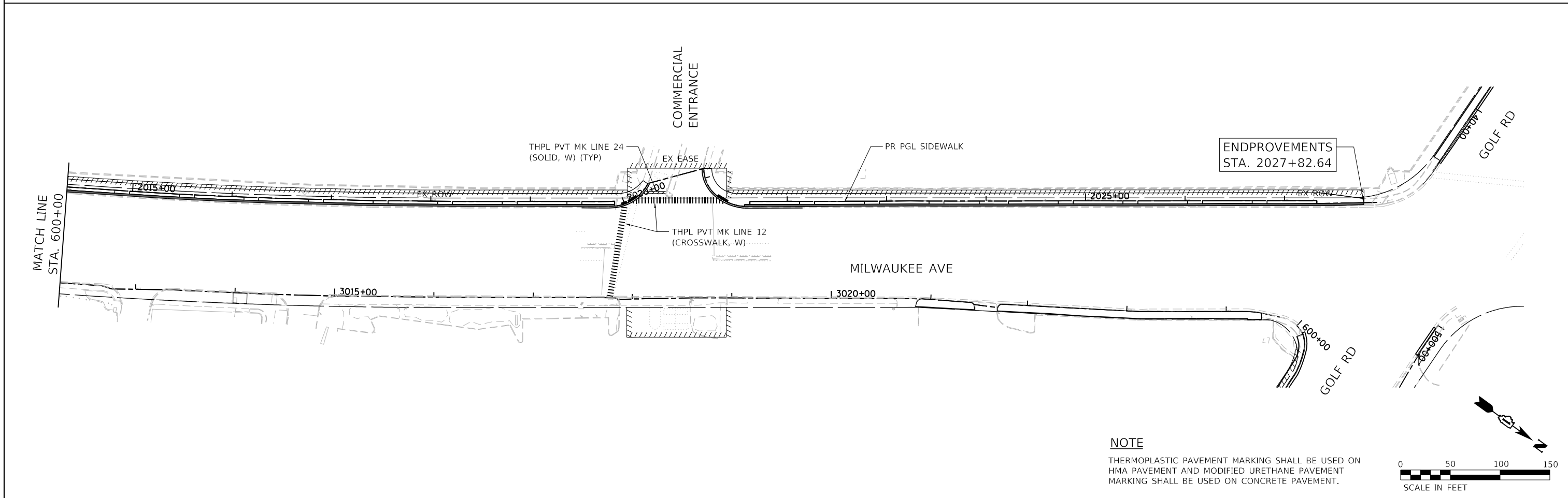
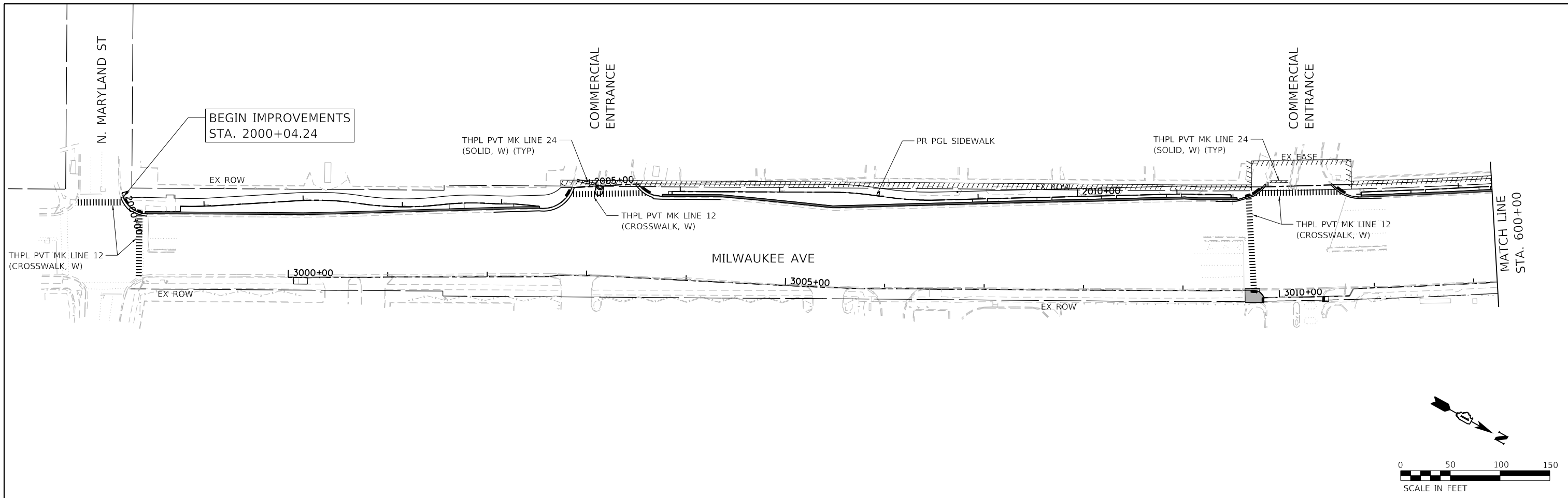
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PLOT SCALE = 100.0000' / in.	DRAWN - WJH	REVISED -
PLOT DATE = 11/15/2023	CHECKED - BDH	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING PLAN  
GREENWOOD AVENUE**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	18-00131-00-SW	COOK	145	78
			CONTRACT NO. 61174	
		ILLINOIS	FED. AID PROJECT	



**NOTE**  
 THERMOPLASTIC PAVEMENT MARKING SHALL BE USED ON  
 HMA PAVEMENT AND MODIFIED URETHANE PAVEMENT  
 MARKING SHALL BE USED ON CONCRETE PAVEMENT.

HRG PROJECT NO: 200452  
 HRG PROJ CONTACT:  
 FILE NAME: 200452-SHT-PMK-MIL-01.dgn  
 PEN TABLE: 1/15/2023.tbl



USER NAME = bhartma	DESIGNED - CW	REVISED -
	DRAWN - W/JH	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED - BDH	REVISED -
PLOT DATE = 11/15/2023	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING PLAN  
 MILWAUKEE AVENUE**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	18-00131-00-SW	COOK	145	79
			CONTRACT NO. 61174	
ILLINOIS FED. AID PROJECT				

# 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								

HRG PROJECT NO: 200452  
 HRG PROJ CONTACT:  
 FILE NAME: 200452-SHT-067-1505-01.dgn  
 FILE NUMBER: 1505-01-067-1505-01.dgn  
 PROJECT: 1505-01-067-1505-01.dgn  
 PROJECT: 1505-01-067-1505-01.dgn

USER NAME = footej	DESIGNED - IP	REVISED - XX/XX/XXXX
	DRAWN - IP	REVISED - XX/XX/XXXX
PLOT SCALE = 50,0000' / 1"	CHECKED - LP	REVISED - XX/XX/XXXX
PLOT DATE = 3/4/2019	DATE - 9/29/2016	REVISED - XX/XX/XXXX

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE  
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

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

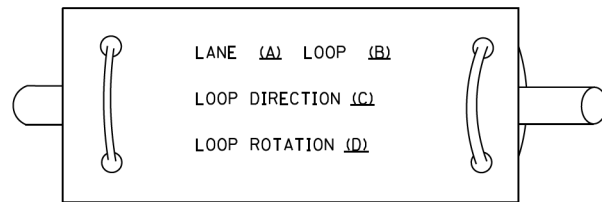
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	18-00131-00-SW	COOK	145	80
<b>TS-05</b>		CONTRACT NO. 61174		
ILLINOIS FED. AID PROJECT				



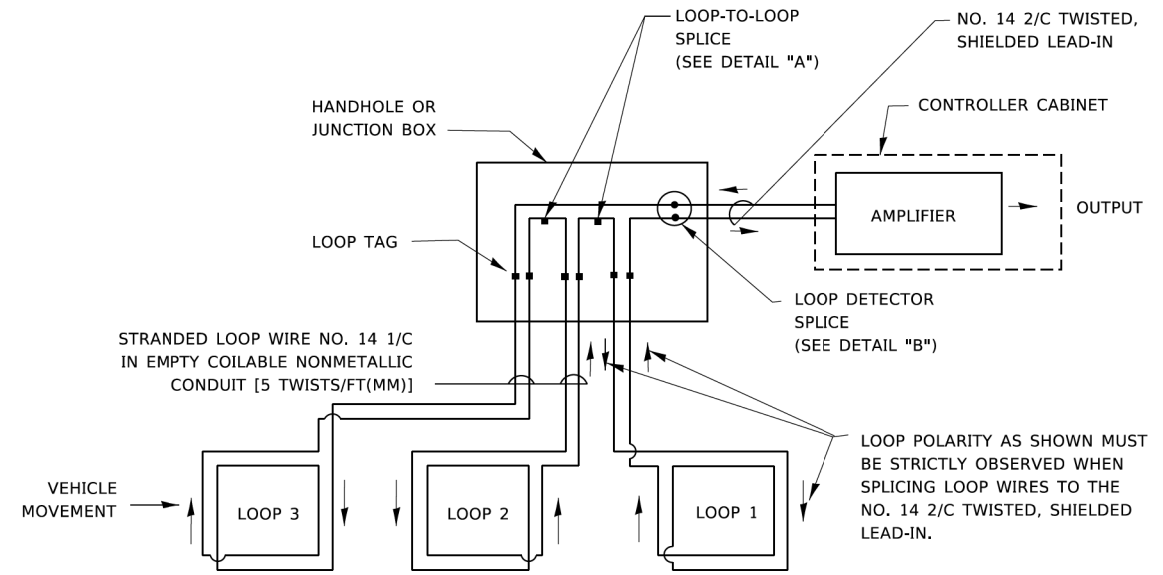
**LOOP DETECTOR NOTES**

1. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE EMPTY COILABLE NONMETALLIC CONDUIT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). EMPTY COILABLE NONMETALLIC CONDUIT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.
2. THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.
3. EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.
4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.
5. IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND 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**

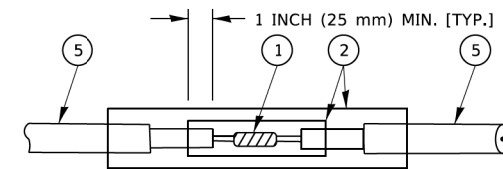


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

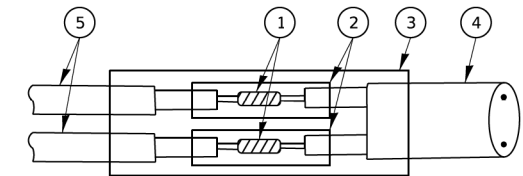


**DETECTOR LOOP WIRING SCHEMATIC**

- 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.

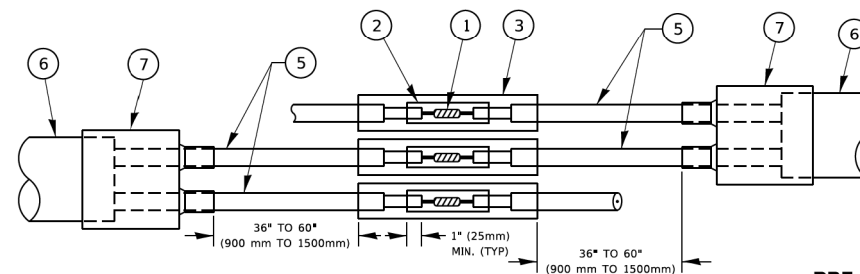


DETAIL "A"  
LOOP-TO-LOOP SPLICE

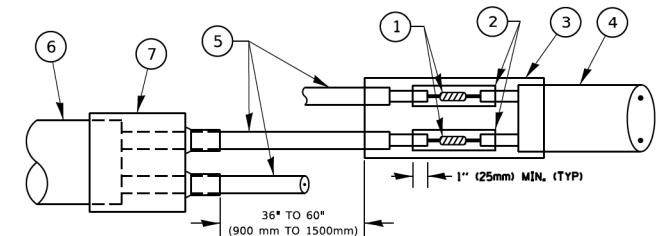


DETAIL "B"  
LOOP-TO-CONTROLLER SPLICE

**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

HRG PROJECT NO: 200452  
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

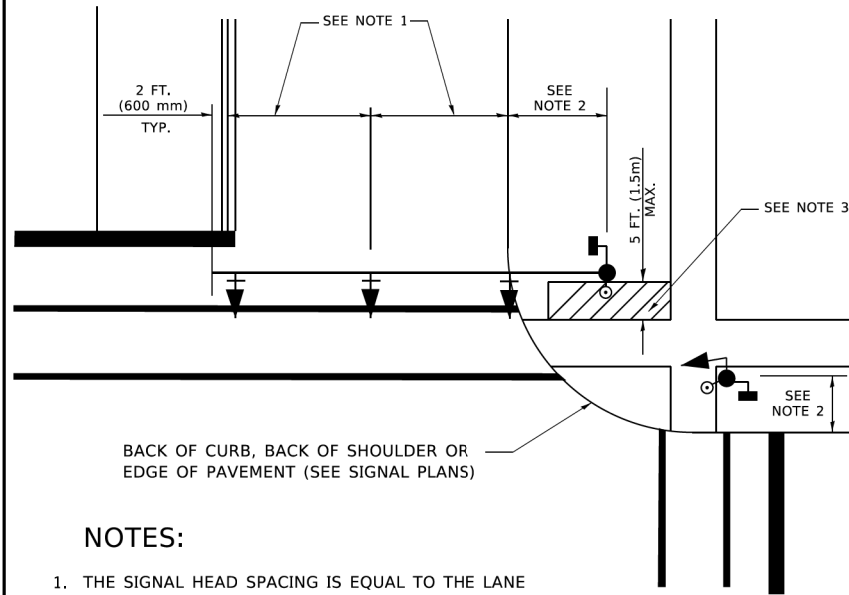
**DISTRICT ONE  
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	18-00131-00-SW	COOK	145	81
<b>TS-05</b>		CONTRACT NO. 61J74		
ILLINOIS		FED. AID PROJECT		

**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.

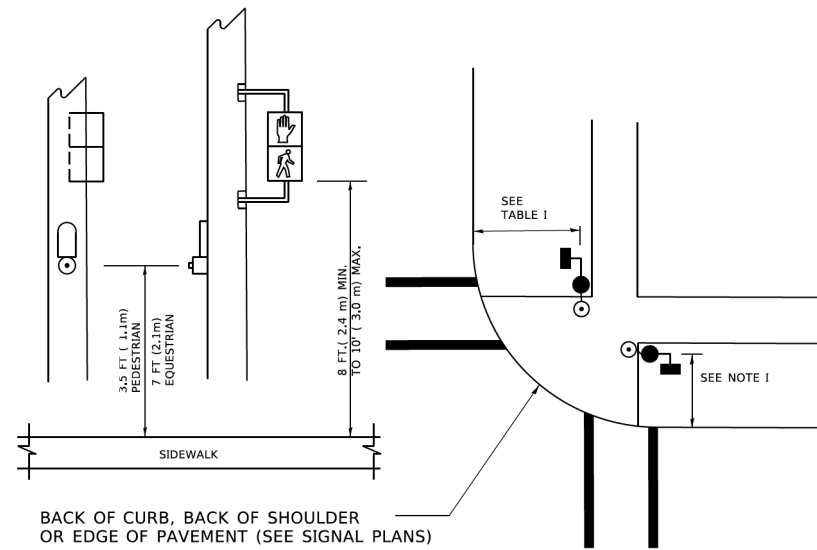


BACK OF CURB, BACK OF SHOULDER OR EDGE OF PAVEMENT (SEE SIGNAL PLANS)

**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**

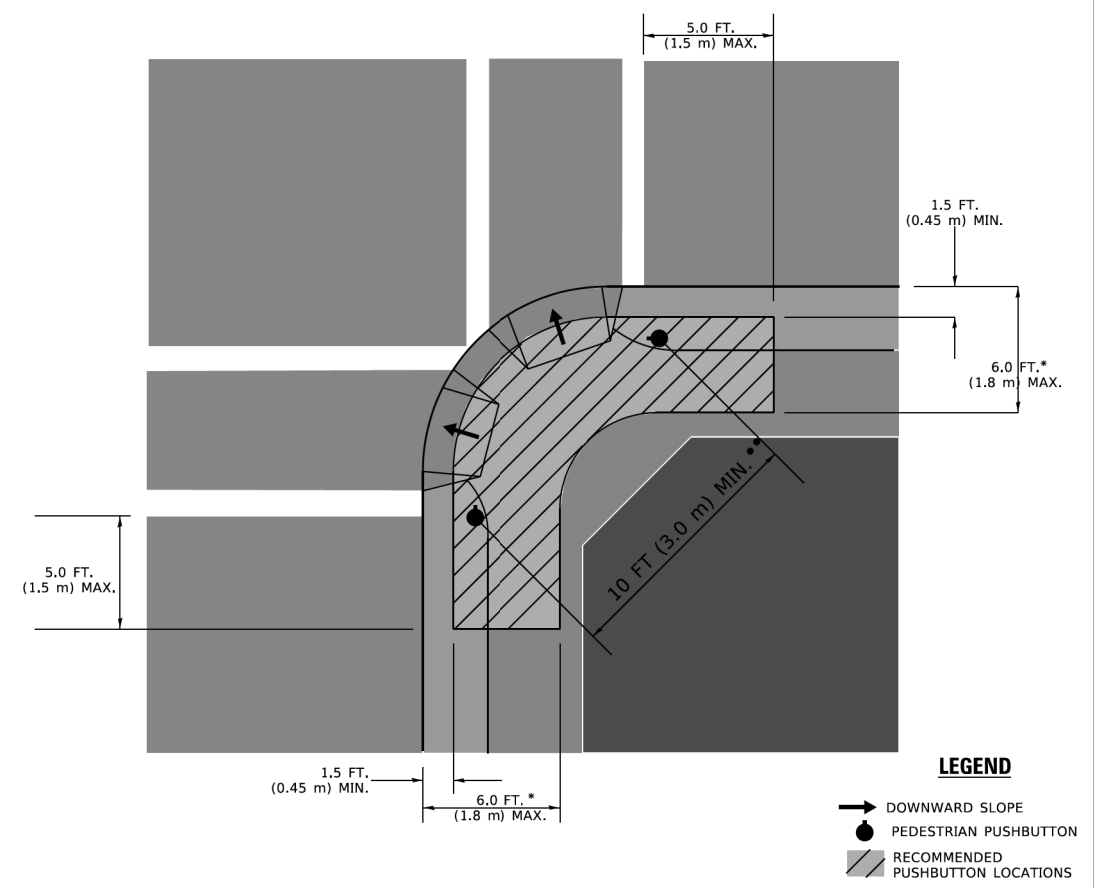


BACK OF CURB, BACK OF SHOULDER OR EDGE OF PAVEMENT (SEE SIGNAL PLANS)

**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 (0.5m), MINIMUM 10 FT (3.0m)
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.5m), MINIMUM 10 FT (3.0m)
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.5m), MINIMUM 10 FT (3.0m)
PEDESTRIAN PUSHBUTTON POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.5m), MINIMUM 10 FT (3.0m)
TEMPORARY WOOD POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.5m), MINIMUM 10 FT (3.0m)
CONTROLLER CABINET	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.3m), 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 (1.3m), 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 TOTHE 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.

HRG PROJECT No. 200452  
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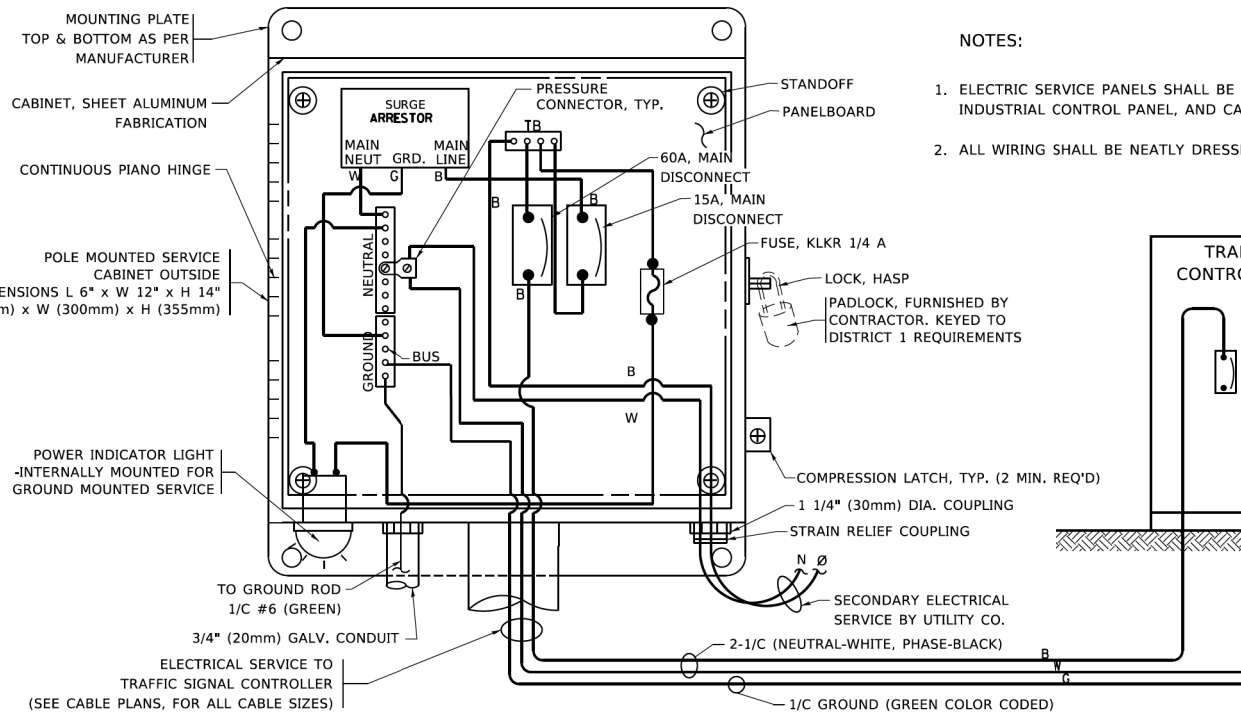
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

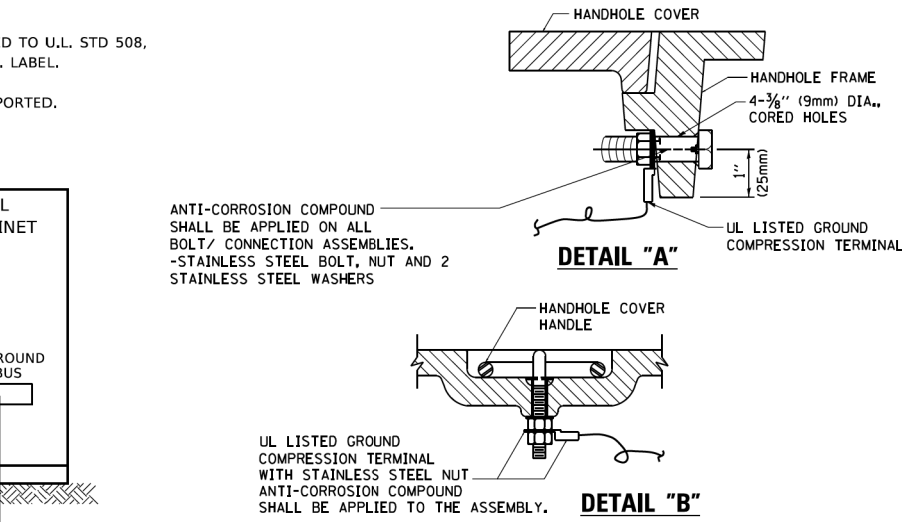
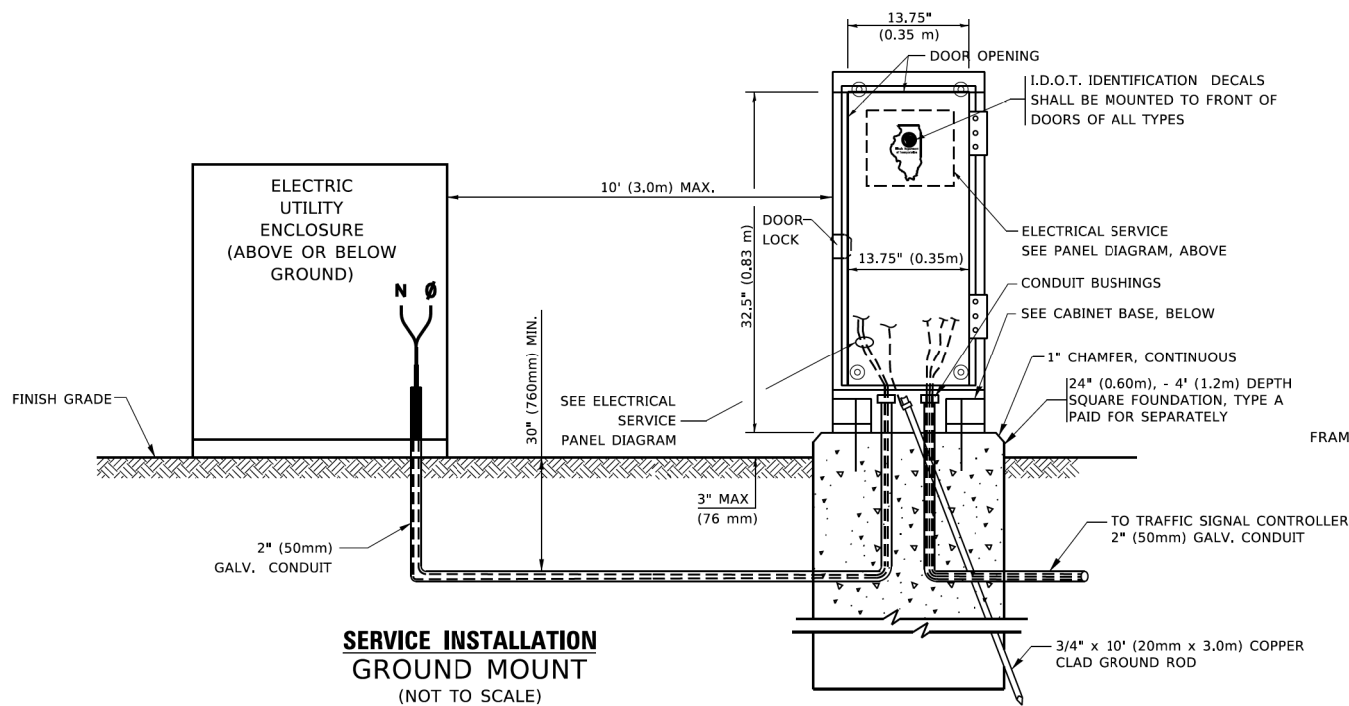
**DISTRICT ONE  
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

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

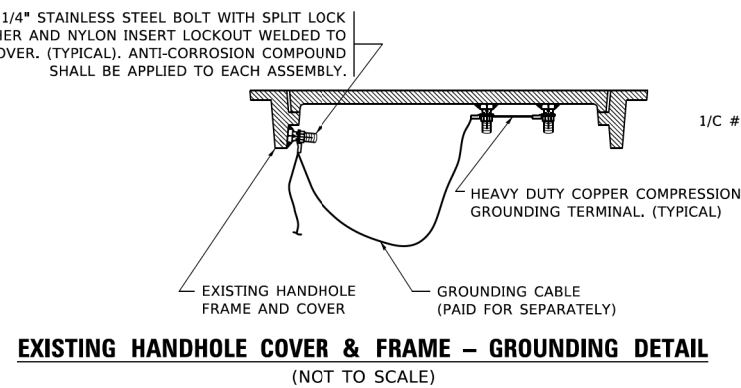
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	18-00131-00-SW	COOK	145	82
<b>TS-05</b>		CONTRACT NO. 61J74		
ILLINOIS FED. AID PROJECT				



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

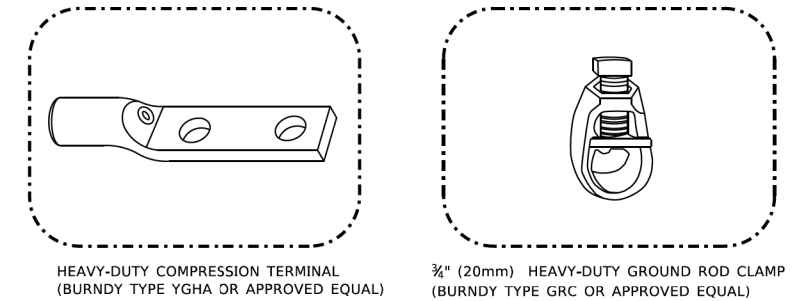


**HANDHOLE COVER & FRAME - GROUNDING DETAIL**  
 (NOT TO SCALE)



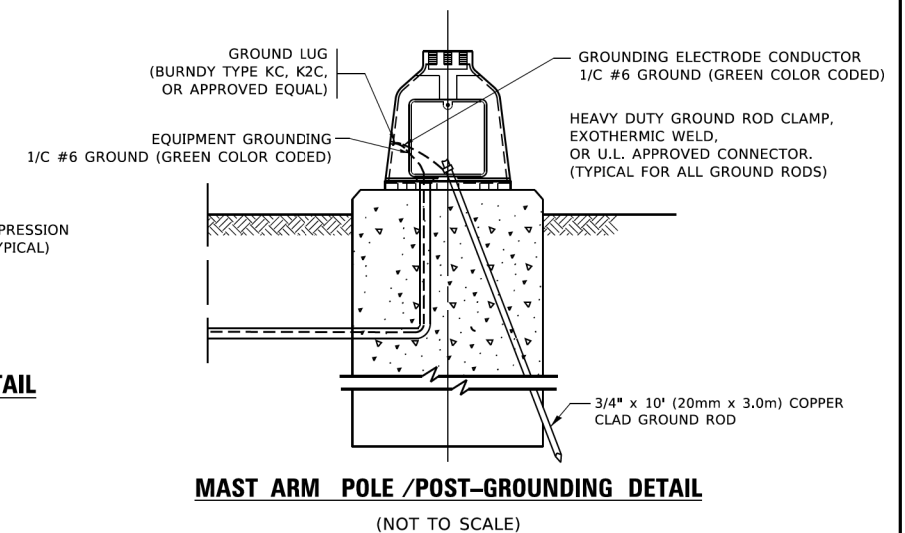
**NOTES:**  
**GROUNDING SYSTEM**

1. THE GROUNDING SYSTEM SHALL CONSIST OF AN INSULATED CONDUCTOR TYPE XLP, NO. 6 A.W.G., STRANDED COPPER TO BE INSTALLED IN RACEWAYS. THE GROUNDING CABLE SHALL BE INSTALLED IN A CONTINUOUS MANNER AS SHOWN ON THE CABLE PLAN 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.
2. THE NEUTRAL CONDUCTOR AND THE GROUND CONDUCTOR SHALL BE CONNECTED IN THE SERVICE INSTALLATION. AT NO OTHER POINT IN THE TRAFFIC SIGNAL SYSTEM SHALL THE NEUTRAL AND GROUND CONDUCTORS BE CONNECTED.
3. ALL EQUIPMENT GROUNDING CONDUCTORS SHALL TERMINATE AT THE GROUND BUS IN THE CONTROLLER CABINET.
4. THE CONTRACTOR SHALL PROVIDE A GROUND CABLE WITH CONNECTORS BETWEEN THE HANDHOLE COVER AND HANDHOLE FRAME.



**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.



HRG PROJECT NO. 200452  
 HRG PROJ. CONTACT:  
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 REVISION: 06/14/2019  
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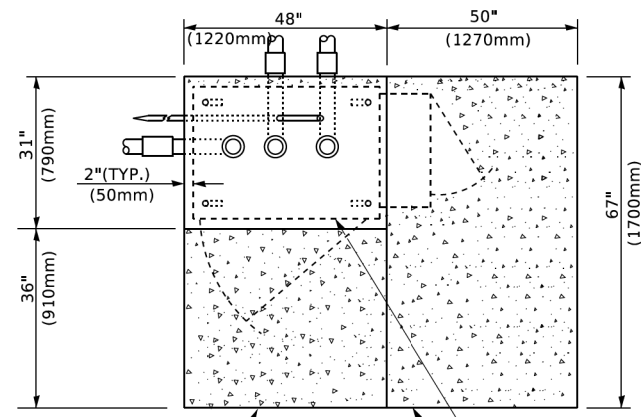
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

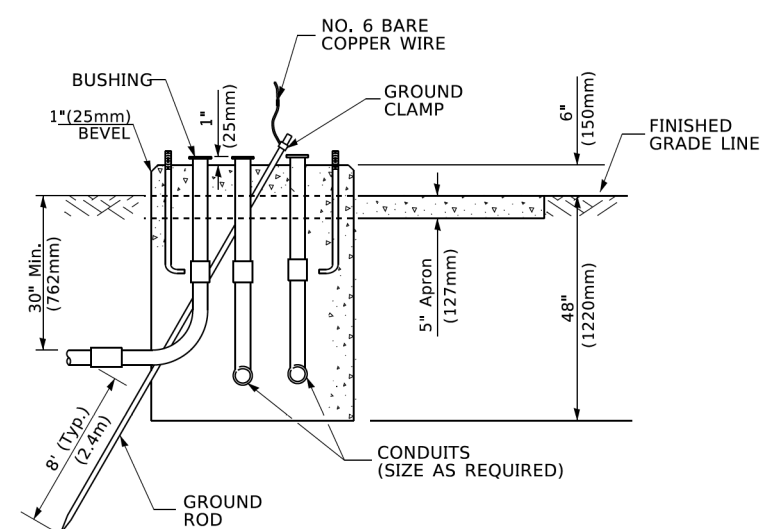
**DISTRICT ONE**  
**STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

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

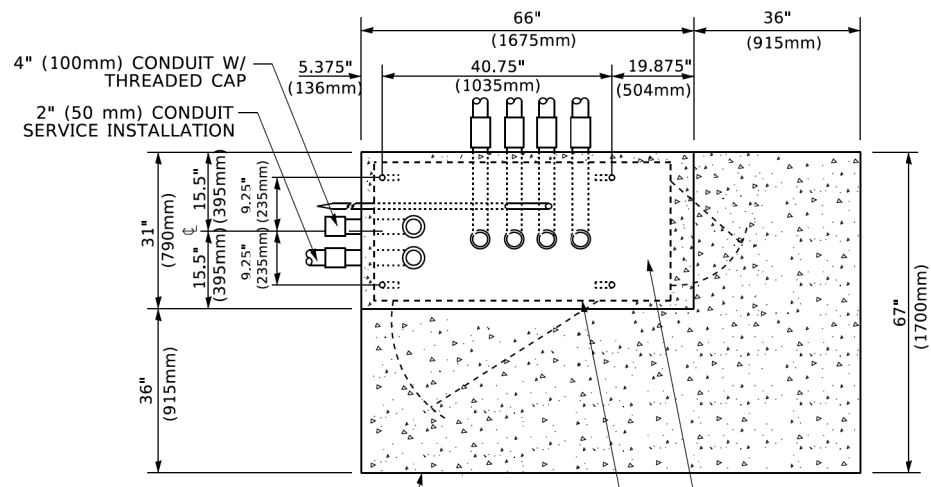
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VAR.	18-00131-00-SW	COOK	145	83
TS-05		CONTRACT NO. 61J74		
ILLINOIS		FED. AID PROJECT		



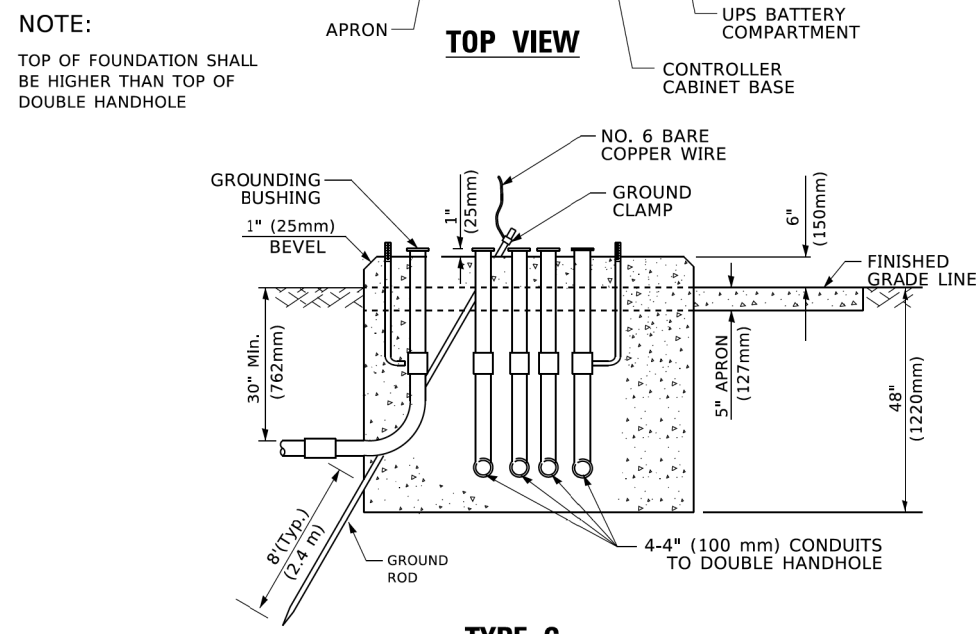
**TOP VIEW**



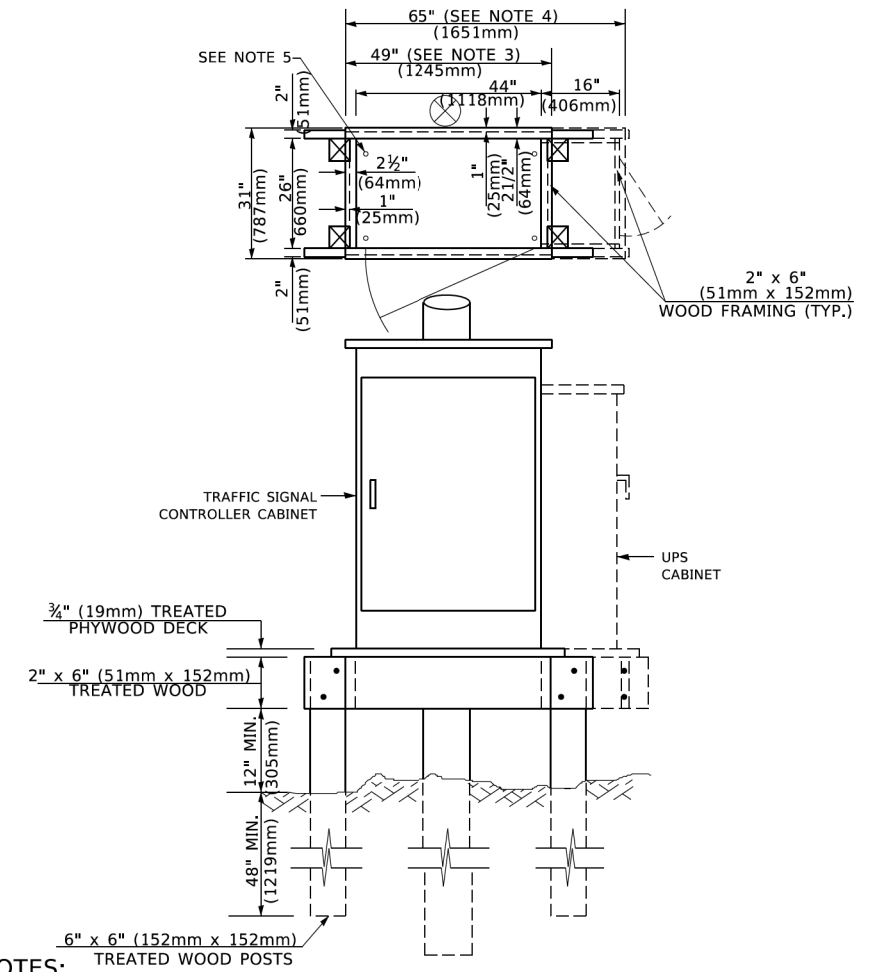
**TYPE D  
FOR GROUND MOUNTED  
CONTROLLER CABINET  
AND UPS BATTERY CABINET**



**TOP VIEW**



**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)	30" (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 55' (16.8 m) and less than 65' (19.8 m)	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 65' (19.8 m) and less than 75' (22.9 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
Greater than or equal to 75' (22.9 m)	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**

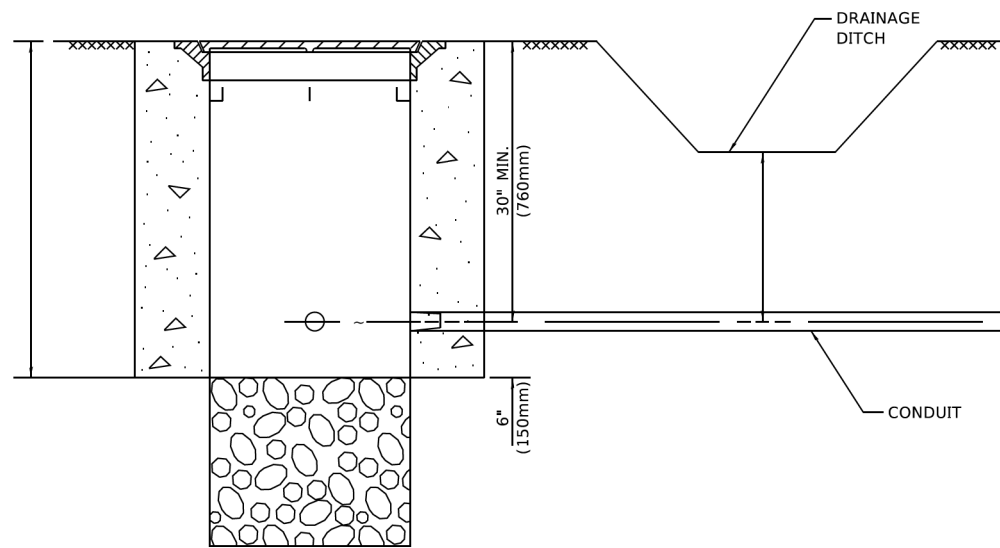
HRG PROJECT NO: 200452  
 HRG PROJ CONTACT:  
 FILE NAME: 200452-SHT-067-1505-05.dgn  
 PLOT DATE: 3/4/2019  
 PLOT SCALE: 1/8" = 1'-0"  
 PLOT DATE: 3/4/2019

USER NAME = footemj	DESIGNED -	REVISED - XX/XX/XXXX
	DRAWN -	REVISED - XX/XX/XXXX
PLOT SCALE = 50.0000' / 1"	CHECKED -	REVISED - XX/XX/XXXX
PLOT DATE = 3/4/2019	DATE -	REVISED - XX/XX/XXXX

**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.

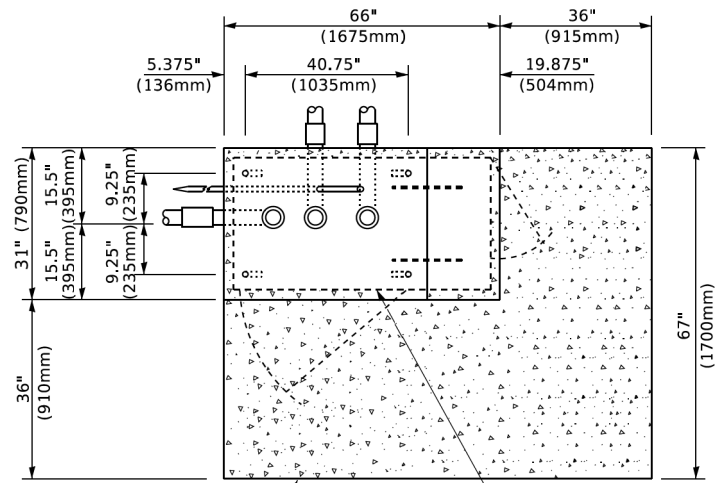
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	18-00131-00-SW	COOK	145	84
<b>TS-05</b>		CONTRACT NO. 61J74		
ILLINOIS		FED. AID PROJECT		



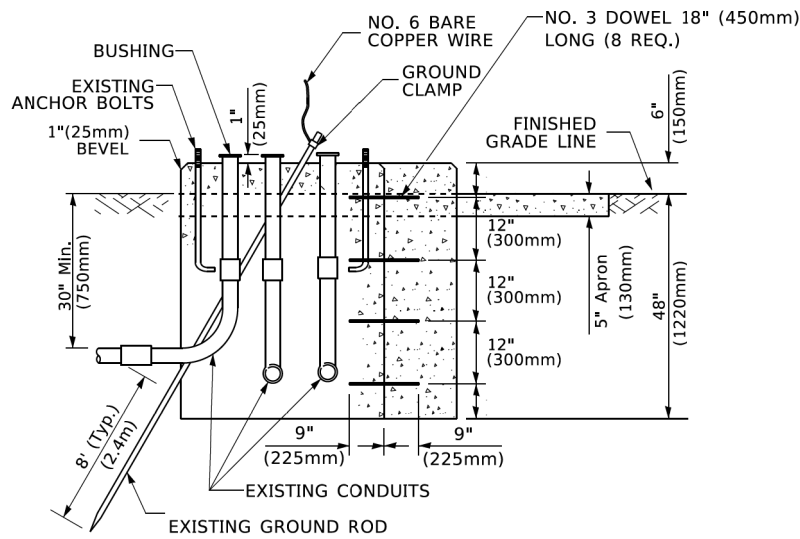
**NOTES:**

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)



**TOP VIEW**  
(NOT TO SCALE)

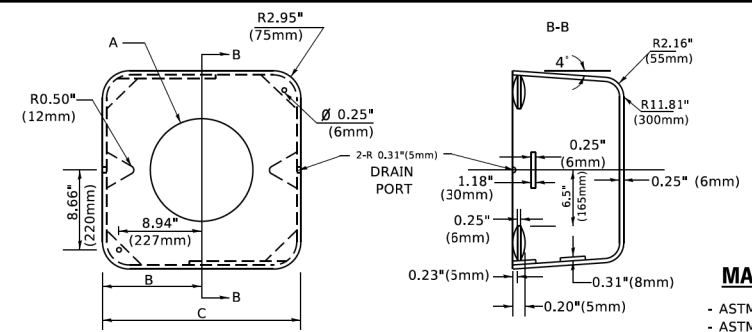


**MODIFY EXISTING TYPE "D" FOUNDATION TO TYPE "C" FOUNDATION**  
(NOT TO SCALE)

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

**NOTES:**

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



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

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

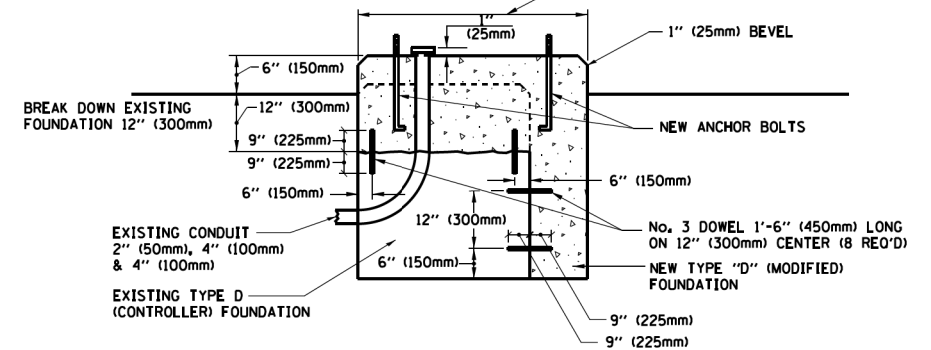
**SHROUD**

**NOTES:**

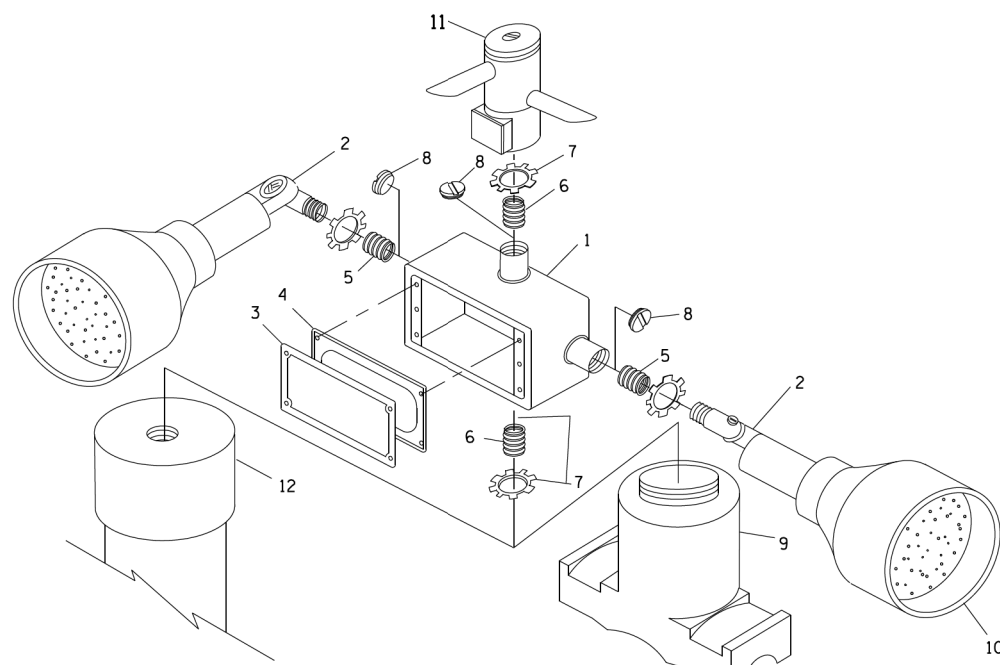
1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
2. THE SUPPLIER SHALL VERIFY THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.

**NOTE:**

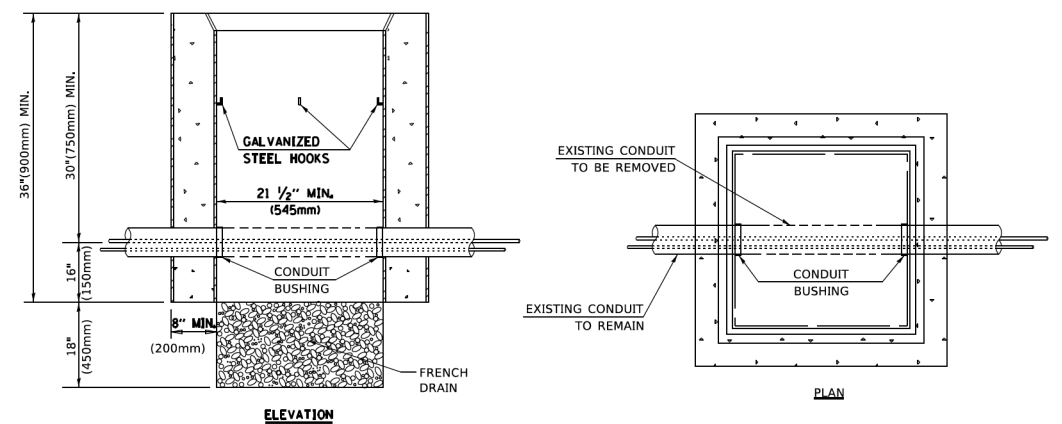
SUPPORT EXISTING CABINET AND CONTROL EQUIPMENT ABOVE FOUNDATION TO KEEP TRAFFIC SIGNAL FUNCTIONING WHILE FOUNDATION MODIFICATION WORK IS PROCEEDING.



**MODIFY EXISTING TYPE "D" FOUNDATION**



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



**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**

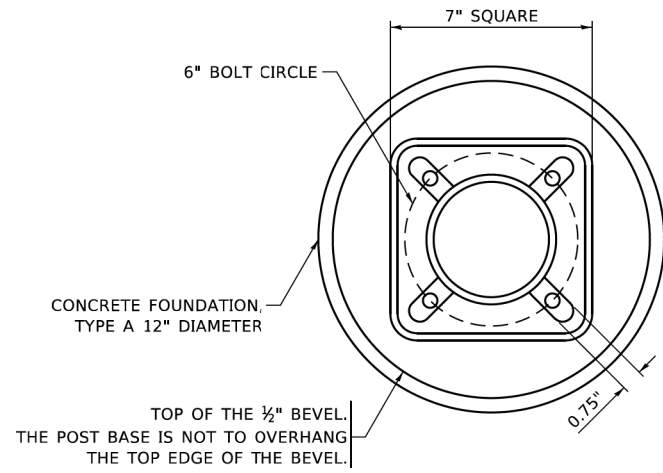
HRG PROJECT NO: 200452  
 HRG PROJ CONTACT:  
 FILE NAME: 200452-SHT-06-1-1505-06.dgn  
 FILE PATH: \\p11001\proj\200452-SHT-06-1-1505-06.dgn  
 PLOT DATE: 3/4/2019

USER NAME	DESIGNED	REVISION
footemj	-	XX/XX/XXXX
	DRAWN	-
		XX/XX/XXXX
	CHECKED	-
		XX/XX/XXXX
	DATE	-
		XX/XX/XXXX

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

DISTRICT ONE	
STANDARD TRAFFIC SIGNAL DESIGN DETAILS	
SCALE: NONE	SHEET 6 OF 7 SHEETS STA. TO STA.

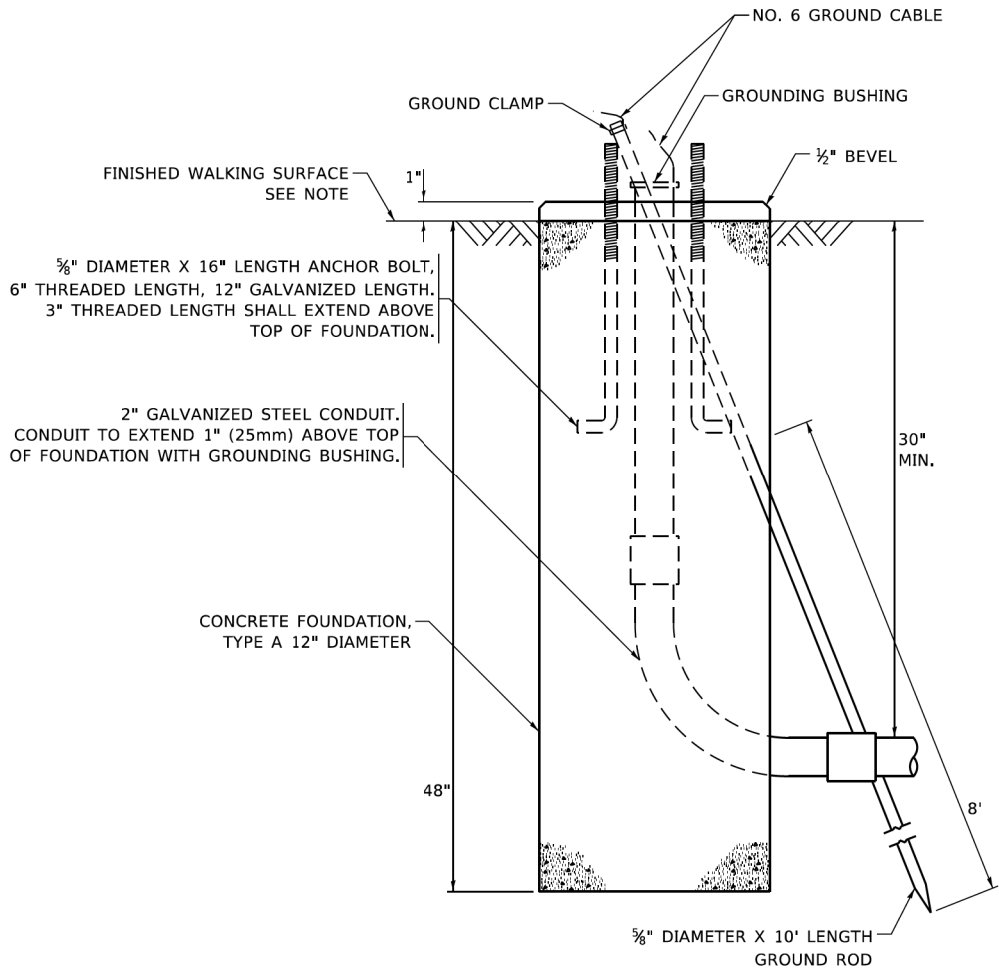
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	18-00131-00-SW	COOK	145	85
<b>TS-05</b>		CONTRACT NO. 61J74		
ILLINOIS / FED. AID PROJECT				



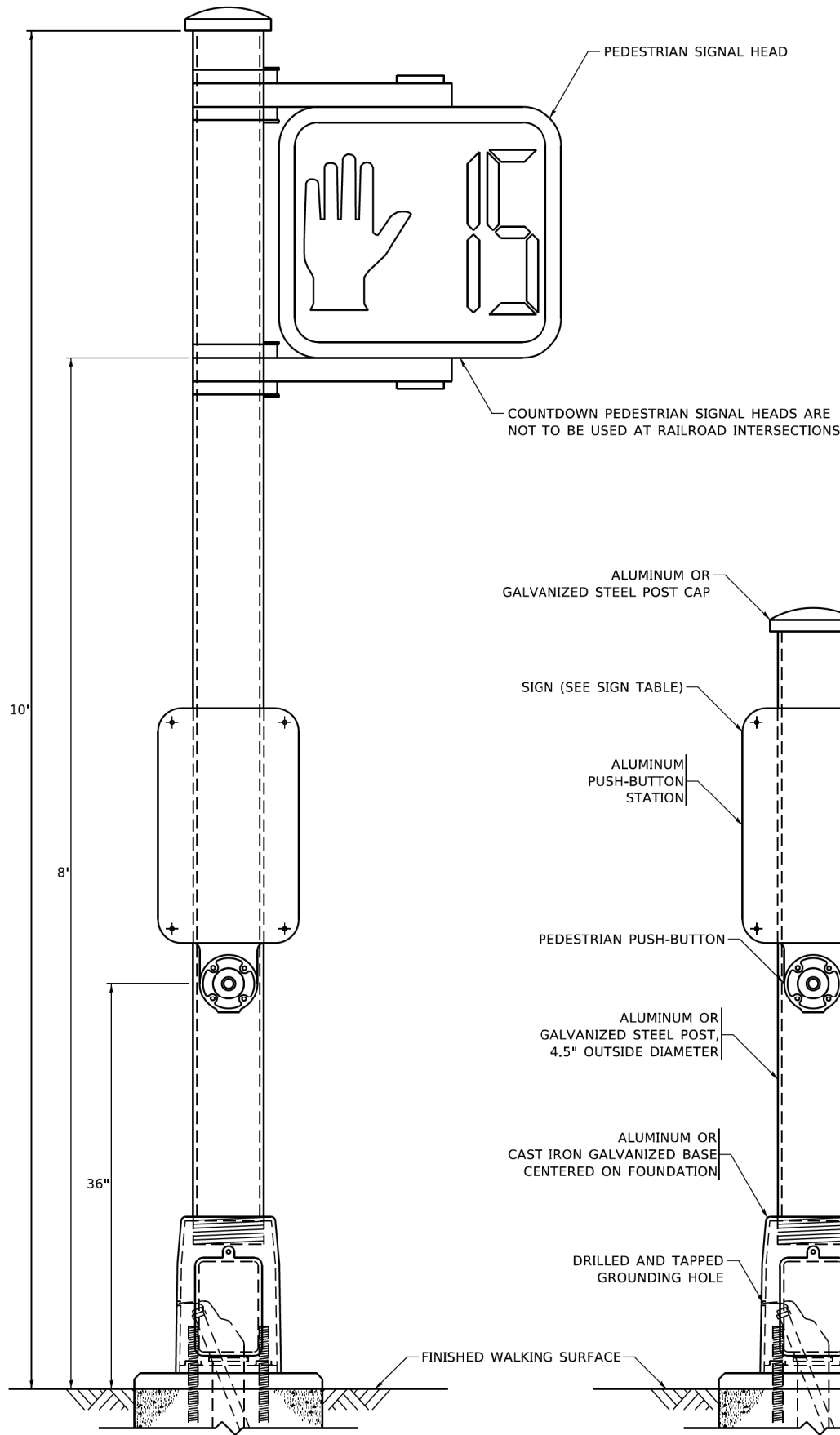
**BOLT PATTERN**

**NOTE:**

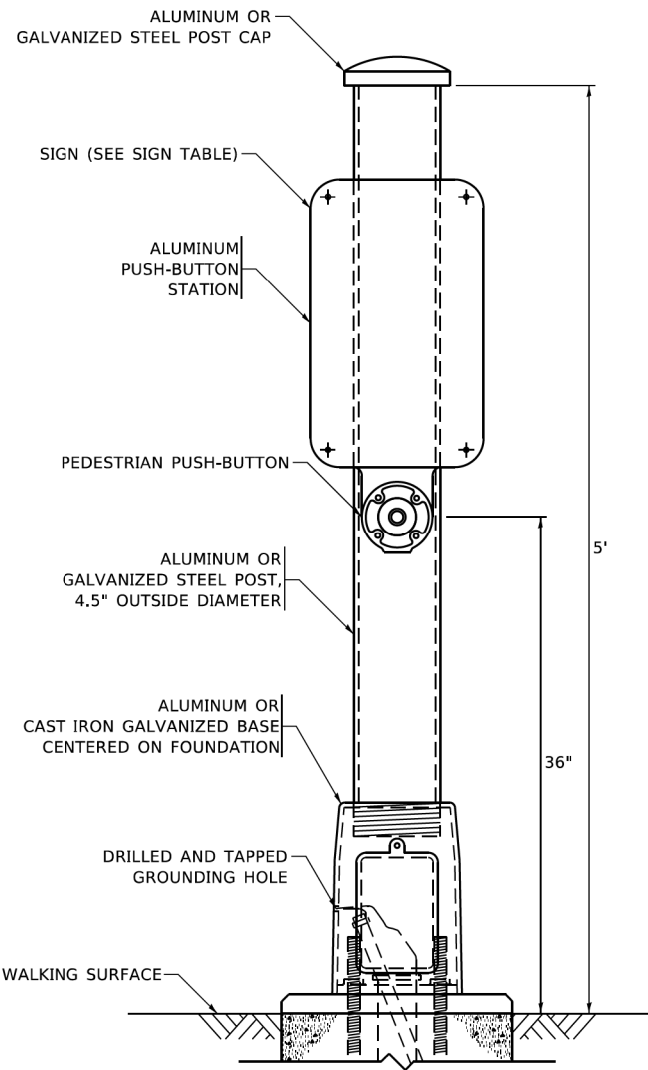
1. IF THE PEDESTRIAN SIGNAL POST FOUNDATION IS INSTALLED WITHIN OR BEHIND A BARRIER CURB, THE TOP OF THE FOUNDATION SHALL BE INSTALLED FLUSH WITH THE TOP OF THE BARRIER CURB.



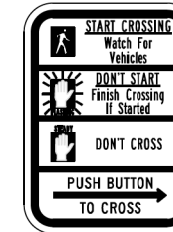
**CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER**



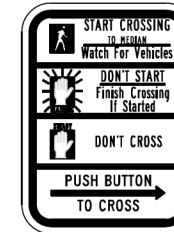
**PEDESTRIAN SIGNAL POST, 10 FT.**



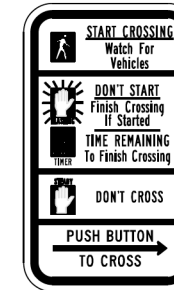
**PEDESTRIAN SIGNAL POST, 5 FT.**



**R10-3b**



**R10-3d**



**R10-3e**

**SIGN TABLE**

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

**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.

HRG PROJECT NO.: 200452  
 HRG PROJ. CONTACT:  
 FILE NAME: 200452-SHT-067-1505-07.dgn  
 FILE PATH: \\p1c17g  
 BRN: 1/16/2020 10:40:41 AM  
 FILE NAME: p1c17g.dgn  
 FILE PATH: \\p1c17g

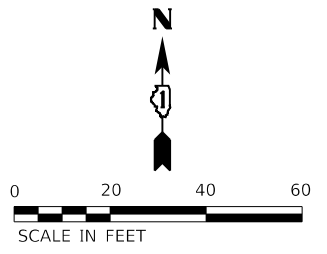
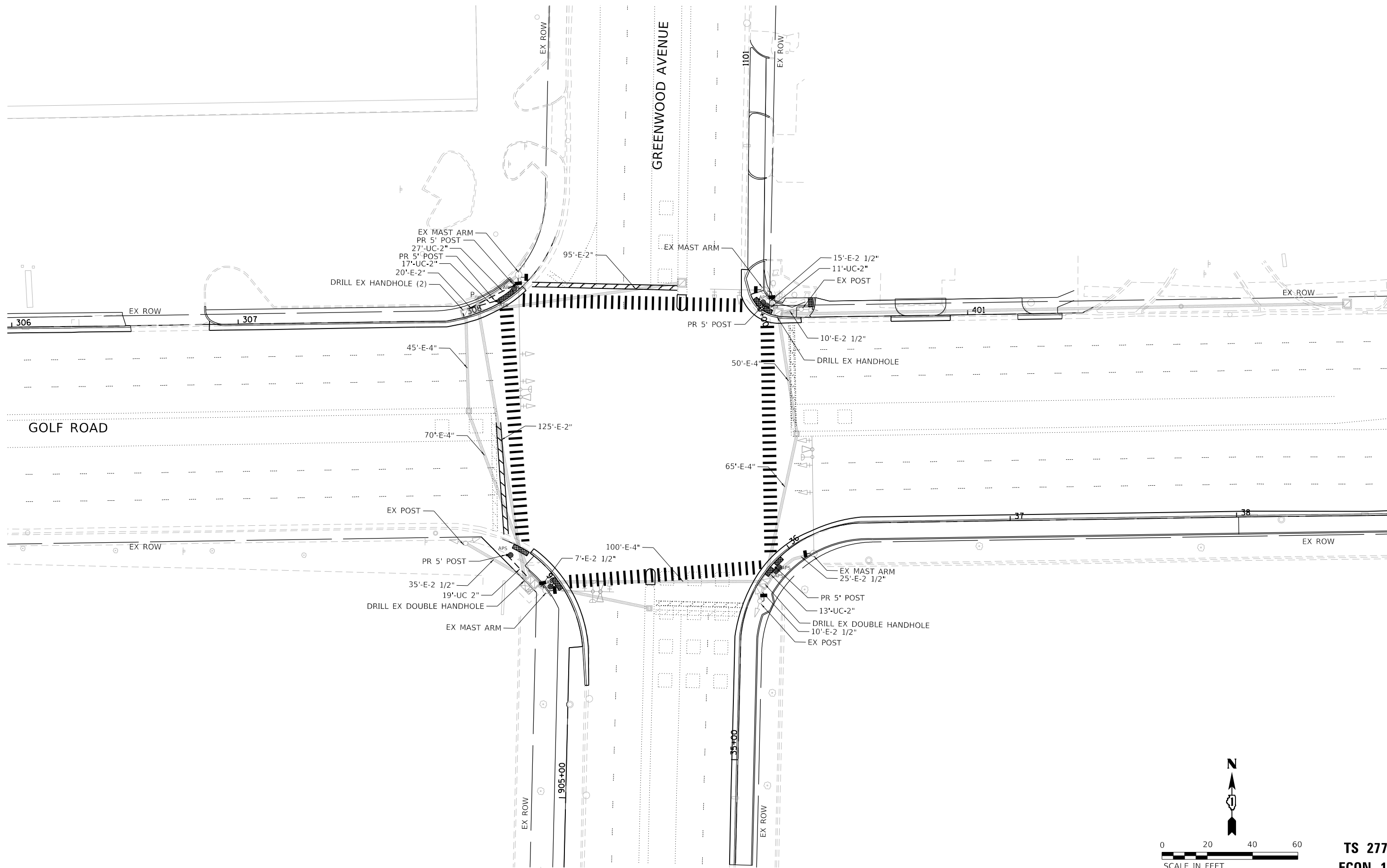
USER NAME = gaglanobt	DESIGNED - IP	REVISED - 18/13/2020
	DRAWN - IP	REVISED - XX/XX/XXXX
PLOT SCALE = 100,0000' / in.	CHECKED - LP	REVISED - XX/XX/XXXX
PLOT DATE = 11/23/2020	DATE - 10-15-2018	REVISED - XX/XX/XXXX

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE  
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	18-00131-00-SW	COOK	145	86
<b>TS-05</b>		CONTRACT NO. 61174		
ILLINOIS FED. AID PROJECT				



**TS 2775  
ECON 12**

HRG PROJECT NO: 200452  
HRG PROJ CONTACT:  
FILE NAME: 200452-SHT-15-GOLF-01.dgn  
PEN TABLE: 1/10/2023



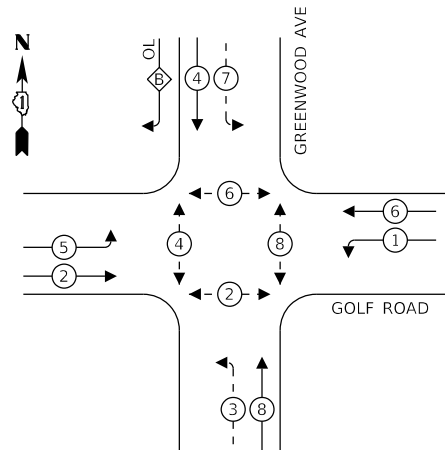
USER NAME = bhartma	DESIGNED - CW	REVISED - XX/XX/XXXX
DRAWN - WJH	REVISED - XX/XX/XXXX	
PLOT SCALE = 40.0000' / in.	CHECKED - BDH	REVISED - XX/XX/XXXX
PLOT DATE = 11/15/2023	DATE -	REVISED - XX/XX/XXXX

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>TRAFFIC SIGNAL MODERNIZATION PLAN GOLF ROAD AND GREENWOOD AVENUE</b>			
SCALE: 1"=20'	SHEET	OF SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	18-00131-00-SW	COOK	145	87
			CONTRACT NO. 61174	
ILLINOIS FED. AID PROJECT				

**PROPOSED CONTROLLER SEQUENCE**



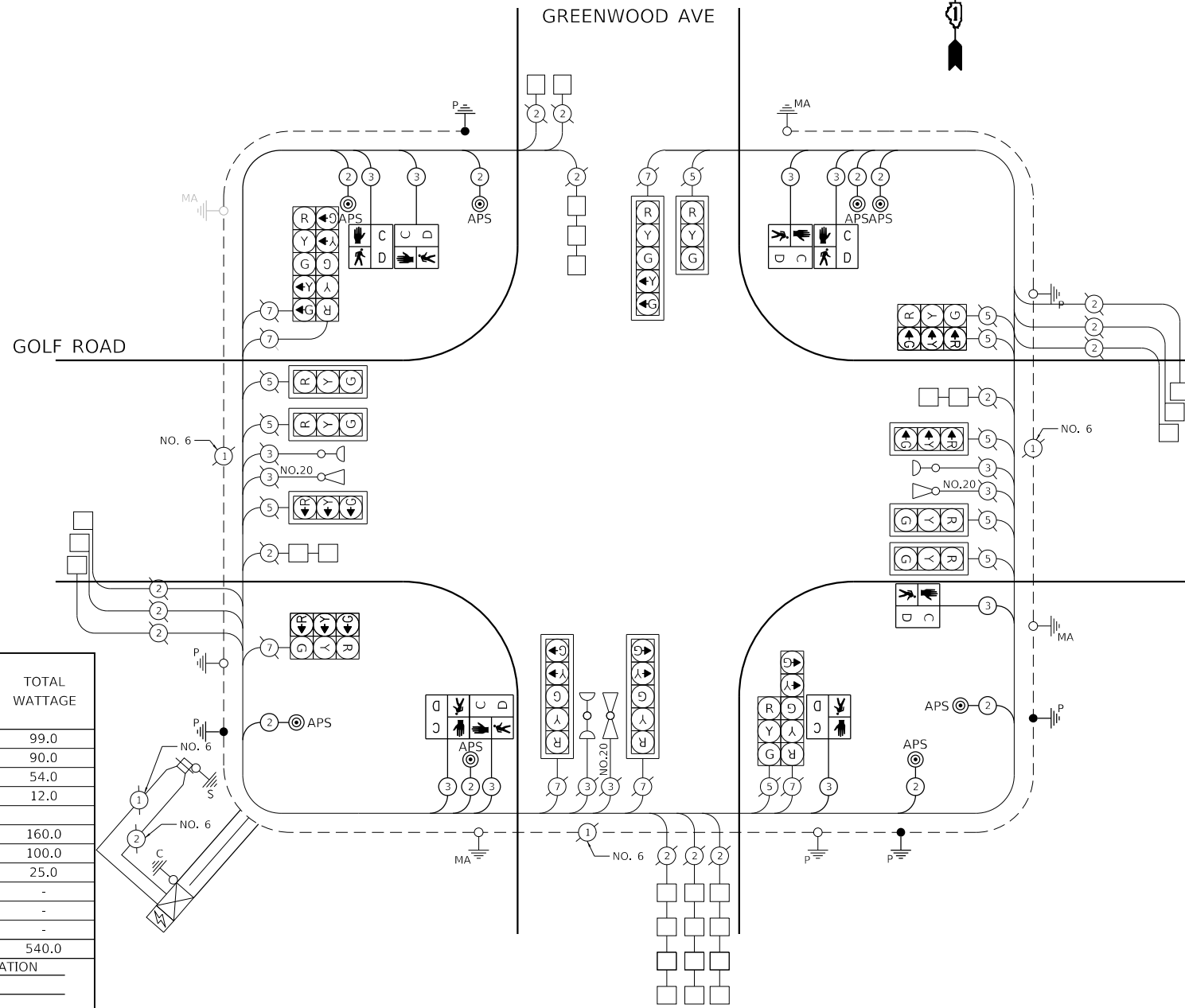
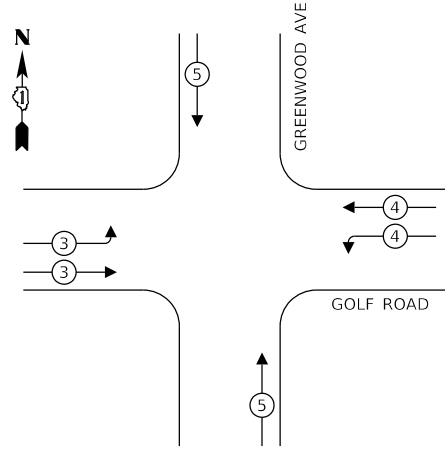
**LEGEND:**

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

**RIGHT TURN OVERLAP PHASE DESIGNATION:**

OVERLAP LETTER = PERMISSIVE PHASE + PROJECTED PHASE  
 B = 4 + 5

**PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE**



**SCHEDULE OF QUANTITIES**

UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	90
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1,354
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1,447
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	874
CONCRETE FOUNDATION, TYPE A	FOOT	20
DRILL EXISTING HANDHOLE	EACH	5
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
PEDESTRIAN SIGNAL POST, 5 FT.	EACH	5
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8

I.D.O.T TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					
TYPE	NO. LAMPS	WATTAGE		% OPERATION	TOTAL WATTAGE
		INCAND.	LED		
SIGNAL (RED)	18		11	50	99.0
(YELLOW)	18		20	25	90.0
(GREEN)	18		12	25	54.0
PERMISSIVE ARROW	12		10	10	12.0
PED. SIGNAL	8		20	100	160.0
CONTROLLER	1		100	100	100.0
UPS	1		25	100	25.0
VIDEO SYSTEM	-		150	100	-
LED SIGN	-		150	100	-
LUMINAIRE	-		310	50	-
TOTAL =					540.0

ENERGY COSTS TO: ILLINOIS DEPARTMENT OF TRANSPORTATION  
 201 W CENTER COURT  
 SCHAUMBURG, ILLINOIS 60196

ENERGY SUPPLY CONTACT: COM ED  
 PHONE: (866) 639-3532  
 COMPANY: COM ED

HRG PROJECT NO.: 200452  
 HRG PROJ. CONTACT:  
 FILE NAME: 200452-SHT-rs-06rf-02.dgn  
 PEN TABLE: rps/06rf.tbl



USER NAME = bhartma	DESIGNED - CW	REVISED - XX/XX/XXXX
	DRAWN - W/JH	REVISED - XX/XX/XXXX
PLOT SCALE = 40.0000 ' / in.	CHECKED - BDH	REVISED - XX/XX/XXXX
PLOT DATE = 11/15/2023	DATE -	REVISED - XX/XX/XXXX

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CABLE PLAN, SEQUENCES, AND SCHEDULE OF QUANTITIES  
 GOLF ROAD AND GREENWOOD AVENUE**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	18-00131-00-5W	COOK	145	88
			CONTRACT NO. 61174	
		ILLINOIS FED. AID PROJECT		

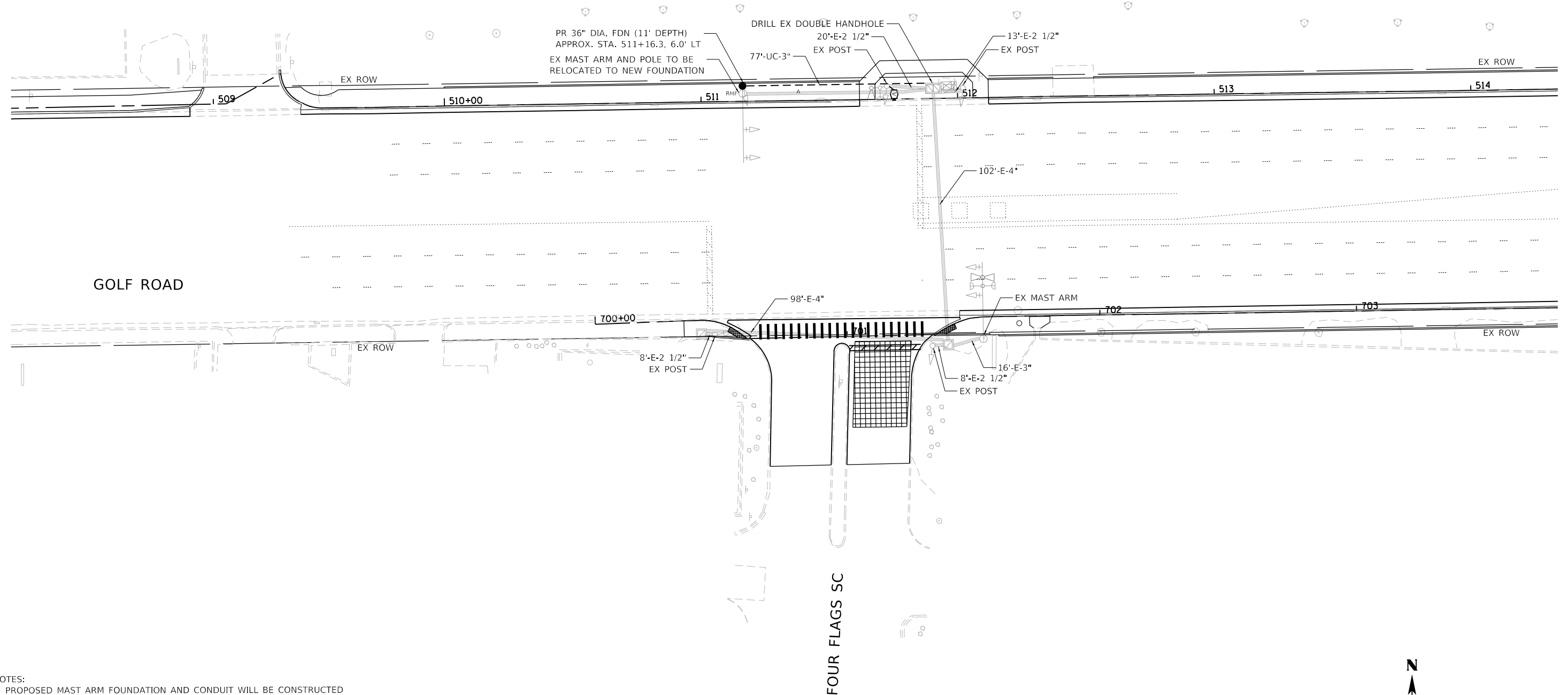
**TS 2775  
 ECON 12**



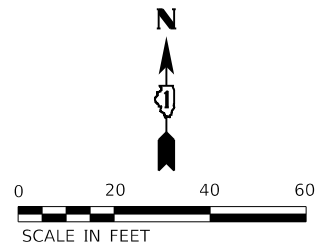
**REMOVAL AND RELOCATION NOTES:**

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SAFELY RELOCATED TO THE PROPOSED FOUNDATION:

- 1 EACH MAST ARM ASSEMBLY AND POLE
- 2 EACH 3-SECTION SIGNAL HEADS
- 1 EACH 5-SECTION SIGNAL HEAD



- NOTES:
- PROPOSED MAST ARM FOUNDATION AND CONDUIT WILL BE CONSTRUCTED PRIOR TO THE RELOCATION OF THE EXISTING MAST ARM AND POLE. TRAFFIC SIGNAL DOWN TIME SHALL BE MINIMIZED AND NO TEMPORARY TRAFFIC SIGNALS SHALL BE USED.
  - EXISTING LOOPS IN THE FOUR FLAGS ACCESS DRIVEWAY SHALL BE ABANDONED AND REPLACED WITH VIDEO DETECTION.
  - THE MOUNTING LOCATIONS OF THE RADAR DETECTORS WILL BE DETERMINED PER THE MANUFACTURER'S RECOMMENDATIONS.



**TS 2885  
ECON 12**

HRG PROJECT NO: 200452  
 HRG PROJ CONTACT:  
 FILE NAME: 200452-SHT-18-00131-00-SW.dgn  
 PEN TABLE: 18-00131-00-SW.tbl



USER NAME = bhartma	DESIGNED - CW	REVISED - XX/XX/XXXX
	DRAWN - WJH	REVISED - XX/XX/XXXX
PLOT SCALE = 40.0000' / in.	CHECKED - BDH	REVISED - XX/XX/XXXX
PLOT DATE = 11/15/2023	DATE -	REVISED - XX/XX/XXXX

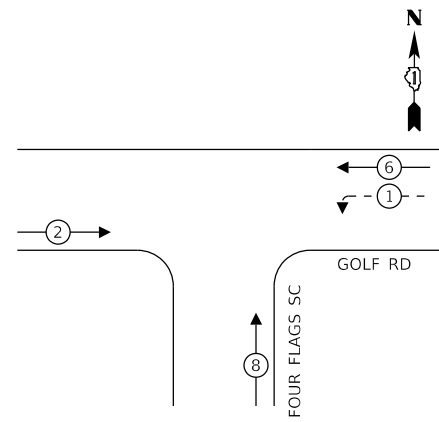
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL MODERNIZATION PLAN  
GOLF ROAD AND FOUR FLAGS**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	18-00131-00-SW	COOK	145	89
CONTRACT NO. 61174			ILLINOIS FED. AID PROJECT	

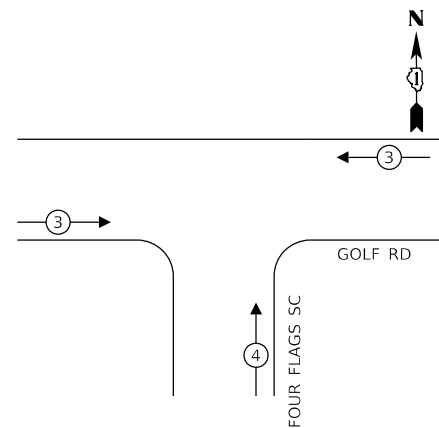
**PROPOSED CONTROLLER SEQUENCE**



**LEGEND:**

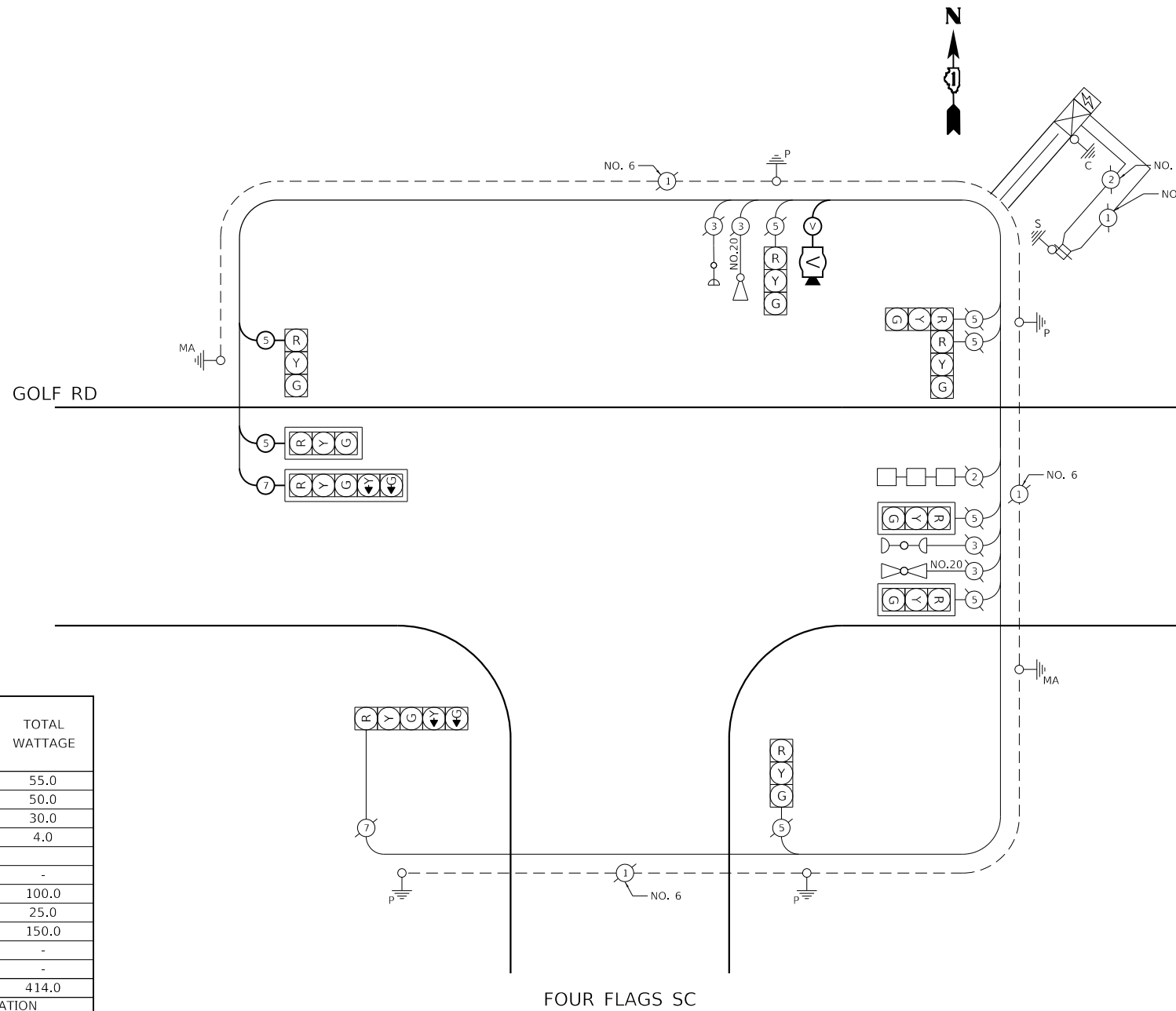
- ← ⊙ ← PROTECTED PHASE
- ← ⊙ - - PROTECTED/PERMITTED PHASE
- ← ⊙ → PEDESTRIAN PHASE
- ← ⊙ OL OVERLAP

**PROPOSED EMERGENCY VEHICLE  
PREEMPTION SEQUENCE**



**SCHEDULE OF QUANTITIES**

UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	77
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	259
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	153
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	105
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	11
DRILL EXISTING HANDHOLE	EACH	1
RELOCATE EXISTING MAST ARM ASSEMBLY AND POLE	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	1
VIDEO DETECTION SYSTEM	EACH	1



I.D.O.T TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					
TYPE	NO. LAMPS	WATTAGE		% OPERATION	TOTAL WATTAGE
		INCAND.	LED		
SIGNAL (RED)	10		11	50	55.0
(YELLOW)	10		20	25	50.0
(GREEN)	10		12	25	30.0
PERMISSIVE ARROW	4		10	10	4.0
PED. SIGNAL	-		20	100	-
CONTROLLER	1		100	100	100.0
UPS	1		25	100	25.0
VIDEO SYSTEM	1		150	100	150.0
LED SIGN	-		150	100	-
LUMINAIRE	-		310	50	-
TOTAL =					414.0

ENERGY COSTS TO: ILLINOIS DEPARTMENT OF TRANSPORTATION  
201 W CENTER COURT  
SCHAUMBURG, ILLINOIS 60196

ENERGY SUPPLY CONTACT: COM ED  
PHONE: (866) 639-3532  
COMPANY: COM ED

HRG PROJECT NO.: 200452  
 HRG PROJ. CONTACT:  
 FILE NAME: 200452-SHT-18-00132.dgn  
 PEN TABLE: 18-00132.tbl



USER NAME = bhartma  
DESIGNED - CW  
DRAWN - W/JH  
PLOT SCALE = 40.0000 ' / in.  
PLOT DATE = 11/15/2023

REVISOR -  
REVISION -  
CHECKED - BDH  
DATE -

REVISED - XX/XX/XXXX  
REVISED - XX/XX/XXXX  
REVISED - XX/XX/XXXX  
REVISED - XX/XX/XXXX

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CABLE PLAN, SEQUENCES, AND SCHEDULE OF QUANTITIES  
GOLF ROAD AND FOUR FLAGS**

SCALE: SHEET OF SHEETS STA. TO STA.

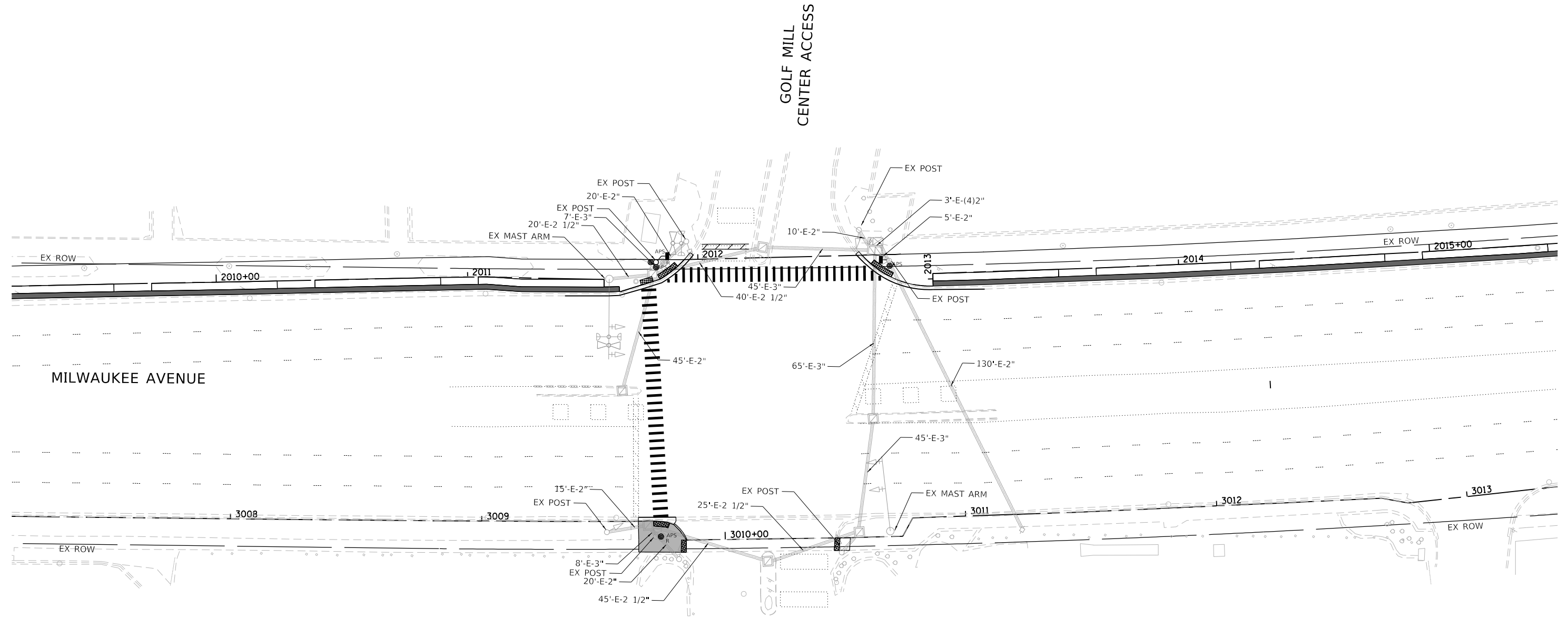
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	18-00131-00-SW	COOK	145	90
			CONTRACT NO. 61174	
		ILLINOIS FED. AID PROJECT		

**TS 2885  
ECON 12**

**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 PUSH-BUTTON



HRG PROJECT NO.: 200452  
 HRG PROJ. CONTACT:  
 FILE NAME: 200452-sht-1s-Mil-0.dgn  
 PLOT DRIVER: IL...pdf\_dwg.plt  
 PEN TABLE: plottable.tbl



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PLOT SCALE = 40,2216" / in.	DRAWN - WJH	REVISED - XX/XX/XXXX
PLOT DATE = 11/15/2023	CHECKED - BDH	REVISED - XX/XX/XXXX
	DATE -	REVISED - XX/XX/XXXX

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

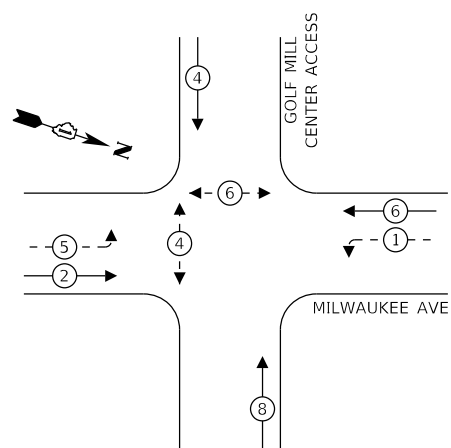
**TRAFFIC SIGNAL MODERNIZATION PLAN**  
**MILWAUKEE AVENUE AND GOLF MILL CENTER ACCESS**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	18-00131-00-SW	COOK	145	91
CONTRACT NO. 61174			ILLINOIS FED. AID PROJECT	

**TS 2060**  
**ECON 11**

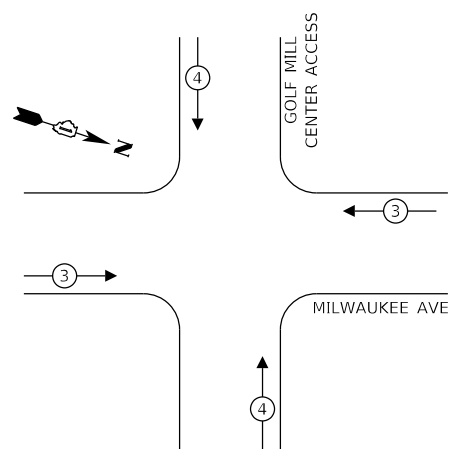
**PROPOSED CONTROLLER SEQUENCE**



**LEGEND:**

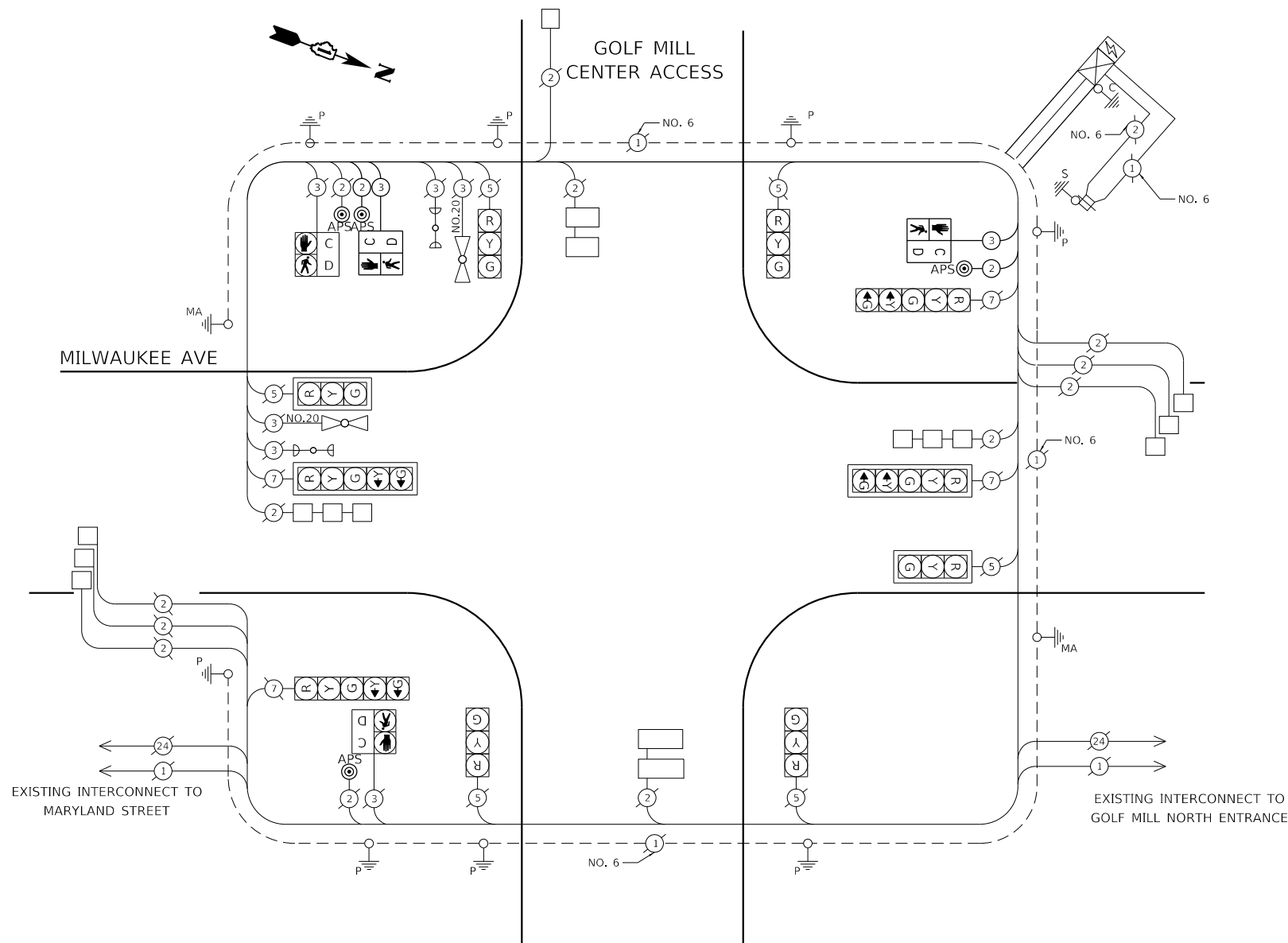
- ← ⊙ → PROTECTED PHASE
- ← ⊙ - - PROTECTED/PERMITTED PHASE
- ← ⊙ → PEDESTRIAN PHASE
- ⊙ OL OVERLAP

**PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE**



**SCHEDULE OF QUANTITIES**

MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	180
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	194
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	4



I.D.O.T TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					
TYPE	NO. LAMPS	WATTAGE		% OPERATION	TOTAL WATTAGE
		INCAND.	LED		
SIGNAL (RED)	10		11	50	55.0
(YELLOW)	10		20	25	50.0
(GREEN)	10		12	25	30.0
PERMISSIVE ARROW	8		10	10	8.0
PED. SIGNAL	4		20	100	80.0
CONTROLLER	1		100	100	100.0
UPS	1		25	100	25.0
VIDEO SYSTEM	-		150	100	-
LED SIGN	-		150	100	-
LUMINAIRE	-		310	50	-
TOTAL =					348.0

ENERGY COSTS TO: ILLINOIS DEPARTMENT OF TRANSPORTATION  
201 W CENTER COURT  
SCHAUMBURG, ILLINOIS 60196

ENERGY SUPPLY CONTACT: COM ED  
PHONE: (866) 639-3532  
COMPANY: COM ED

HRG PROJECT NO.: 200452  
 HRG PROJ. CONTACT:  
 FILE NAME: 200452-SHT-18-MP-02.dgn  
 PEN TABLE: 18-00131-00-01.dwg



USER NAME = bhartma	DESIGNED - CW	REVISED - XX/XX/XXXX
	DRAWN - W/JH	REVISED - XX/XX/XXXX
PLOT SCALE = 40.0000 ' / in.	CHECKED - BDH	REVISED - XX/XX/XXXX
PLOT DATE = 11/15/2023	DATE -	REVISED - XX/XX/XXXX

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CABLE PLAN, SEQUENCES, AND SCHEDULE OF QUANTITIES  
MILWAUKEE AVENUE AND GOLF MILL CENTER ACCESS**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	18-00131-00-SW	COOK	145	92
			CONTRACT NO. 61174	
		ILLINOIS FED. AID PROJECT		

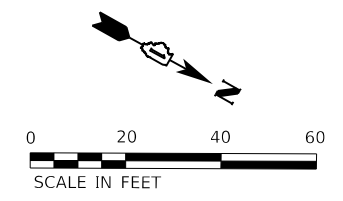
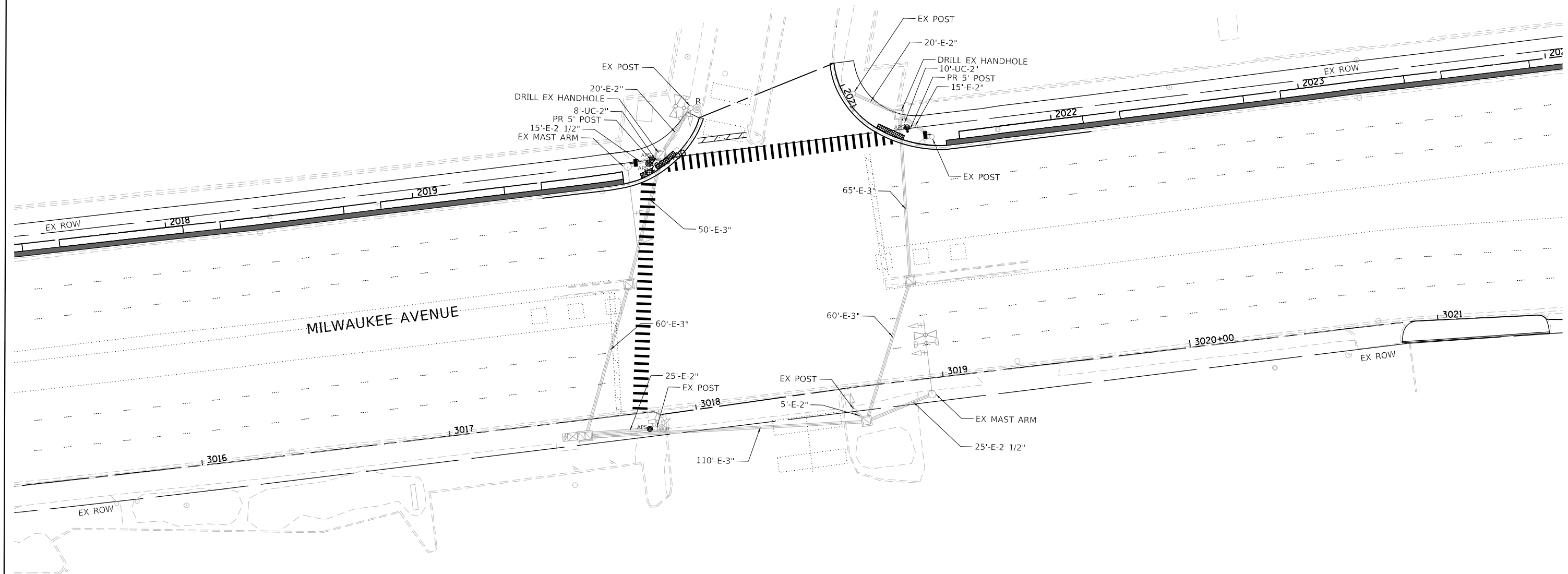
**TS 2060  
ECON 11**

**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 PUSH-BUTTON

GOLF MILL NORTH ACCESS



**TS 2065  
ECON 11**

HRG PROJECT NO: 200452  
 HRG PROJ CONTACT:  
 FILE NAME: 200452-sht-1s-Mil-03.dgn  
 PLOT DRIVER: IL...pdf.dwg  
 PEN TABLE: plot.tbl

**HRGreen.com**  
 Illinois Professional Design Firm  
 #184-001322

USER NAME = bhartma	DESIGNED - CW	REVISED - XX/XX/XXXX
PLOT SCALE = 40,2216' / in.	DRAWN - WJH	REVISED - XX/XX/XXXX
PLOT DATE = 11/15/2023	CHECKED - BDH	REVISED - XX/XX/XXXX
	DATE -	REVISED - XX/XX/XXXX

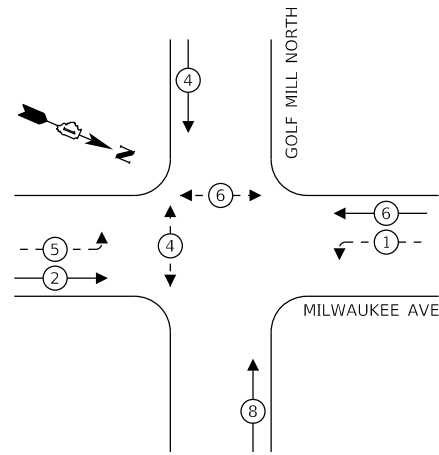
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL MODERNIZATION PLAN  
MILWAUKEE AVENUE AND GOLF MILL NORTH ACCESS**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	18-00131-00-SW	COOK	145	93
			CONTRACT NO. 61174	
ILLINOIS FED. AID PROJECT				

**PROPOSED CONTROLLER SEQUENCE**



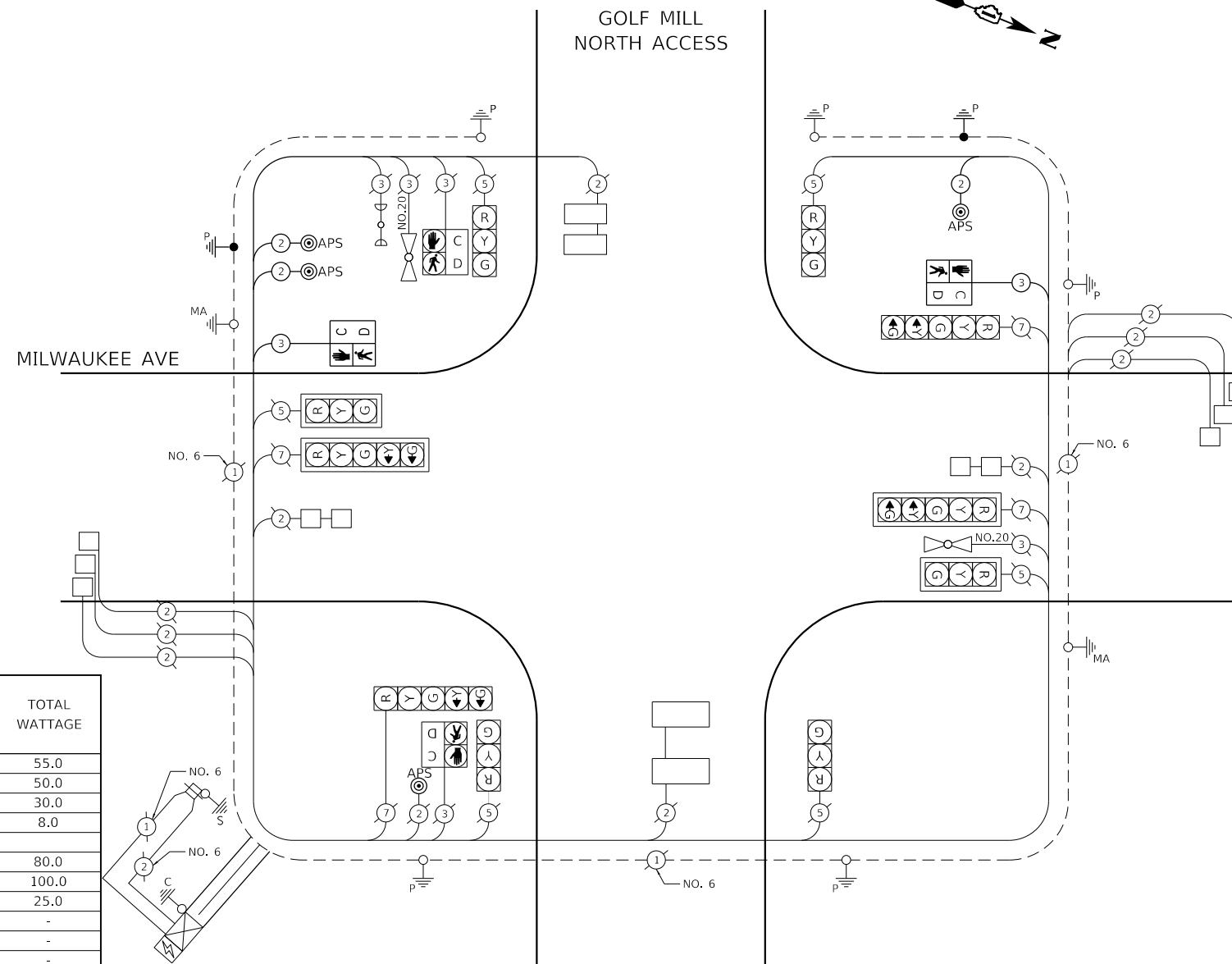
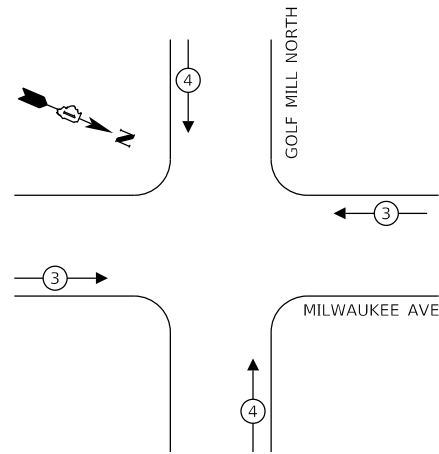
**LEGEND:**

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

**RIGHT TURN OVERLAP PHASE DESIGNATION:**

OVERLAP LETTER = PERMISSIVE PHASE + PROJECTED PHASE

**PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE**



**SCHEDULE OF QUANTITIES**

UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	18
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	646
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	506
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	172
CONCRETE FOUNDATION, TYPE A	FOOT	8
DRILL EXISTING HANDHOLE	EACH	2
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
PEDESTRIAN SIGNAL POST, 5 FT.	EACH	2
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	4

I.D.O.T TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					
TYPE	NO. LAMPS	WATTAGE		% OPERATION	TOTAL WATTAGE
		INCAND.	LED		
SIGNAL (RED)	10		11	50	55.0
(YELLOW)	10		20	25	50.0
(GREEN)	10		12	25	30.0
PERMISSIVE ARROW	8		10	10	8.0
PED. SIGNAL	4		20	100	80.0
CONTROLLER	1		100	100	100.0
UPS	1		25	100	25.0
VIDEO SYSTEM	-		150	100	-
LED SIGN	-		150	100	-
LUMINAIRE	-		310	50	-
TOTAL =					348.0

ENERGY COSTS TO: ILLINOIS DEPARTMENT OF TRANSPORTATION  
201 W CENTER COURT  
SCHAUMBURG, ILLINOIS 60196

ENERGY SUPPLY CONTACT: COM ED  
PHONE: (866) 639-3532  
COMPANY: COM ED

HRG PROJECT NO.: 200452  
 HRG PROJ. CONTACT:  
 FILE NAME: 200452-SHT-18-MIL-04.dgn  
 PEN TABLE: 1/10/2023



USER NAME = bhartma	DESIGNED - CW	REVISED - XX/XX/XXXX
	DRAWN - W/JH	REVISED - XX/XX/XXXX
PLOT SCALE = 40.0000 ' / in.	CHECKED - BDH	REVISED - XX/XX/XXXX
PLOT DATE = 11/15/2023	DATE -	REVISED - XX/XX/XXXX

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CABLE PLAN, SEQUENCES, AND SCHEDULE OF QUANTITIES  
MILWAUKEE AVENUE AND GOLF MILL NORTH ACCESS**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	18-00131-00-SW	COOK	145	94
			CONTRACT NO. 61174	
ILLINOIS FED. AID PROJECT				

**TS 2065  
ECON 11**








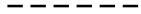
**GENERAL NOTES:**

- THIS PROJECT INCLUDES THE INSTALLATION OF A NEW LIGHTING SYSTEM ALONG GOLF ROAD FROM DEE ROAD TO WASHINGTON ROAD. THE PROPOSED LIGHTING SHALL BE OWNED AND MAINTAINED BY THE VILLAGE OF NILES.
- THE QUANTITIES OF RACEWAYS WHEREVER INDICATED IN THESE PLANS ARE APPROXIMATIONS ONLY. THE CONTRACTOR SHALL FIELD VERIFY ALL LENGTHS AND SHALL INSTALL RACEWAYS IN COMPLETE COMPLIANCE WITH THE SPECIFIED REQUIREMENTS.
- MEADE ELECTRIC CO. DISTRICT ONE ELECTRICAL MAINTENANCE CONTRACTOR LOCATES IDOT ELECTRICAL EQUIPMENT AND UNDERGROUND CABLES, CALL 773-287-7672.
- THE CONTRACTOR SHALL NOTIFY J.U.L.I.E. TO LOCATE AND MARK/STAKE OTHER UNDERGROUND UTILITIES.
- THE CONTRACTOR SHALL VERIFY LOCATIONS OF UNDERGROUND/OVERHEAD UTILITIES AND TREES PRIOR TO INSTALLATION OF LIGHT POLES AND CONDUITS. IF THERE IS A CONFLICT WITH THE LIGHT POLES/CONDUITS AS SHOWN ON PLANS, THE CONTRACTOR SHALL SUGGEST ALTERNATIVE LOCATIONS AND COORDINATE WITH THE ENGINEER PRIOR TO PERFORMING WORK.
- TRENCHES FOR LIGHTING RACEWAYS SHALL HAVE A MINIMUM DEPTH OF 30".
- LIGHTING SYSTEM INSTALLATION SHALL CONFORM TO THE LATEST IDOT STANDARDS, NEC AND VILLAGE OF NILES.
- ALL ELECTRICAL EQUIPMENT AND PRODUCTS SHALL BE U/L LISTED AND LABELED.
- GROUND RODS SHALL BE INSTALLED AT EACH LIGHTING UNIT.
- THE CONTRACTOR SHALL TAKE CARE WHEN INSTALLING UNIT DUCT TO AVOID CONFLICTS WITH EXISTING UNDERGROUND UTILITIES AND TREES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE AS DETERMINED BY THE ENGINEER.
- THE CONTRACTOR SHALL COORDINATE WITH ComEd REGARDING THE REMOVAL OF EXISTING MAST ARMS WITH LUMINAIRES ATTACHED TO ComEd POLES.

**BILL OF MATERIALS**

DESCRIPTION	UNIT	QUANTITY
ELECTRIC SERVICE INSTALLATION	EACH	2
ELECTRIC UTILITY SERVICE CONNECTION	L SUM	1
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	200
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	3549
ELECTRIC CABLE IN CONDUIT, 600V XLP-TYPE USE) 3-1/C NO. 3/0	FOOT	200
LIGHTING CONTROLLER, BASE MOUNTED, 240 VOLT, 200 AMP	EACH	2
LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	1020
WIRELESS LIGHTING CONTROL SYSTEM	L SUM	1
UNIT DUCT, 600V, 7-1C NO.6, 1/C NO.8 GROUND, (XLP-TYPE USE), 2" DIA. POLYETHYLENE	FOOT	16449
LIGHTING UNIT COMPLETE, SPECIAL	EACH	102

**LEGEND**

-  EXISTING LIGHTING UNIT TO REMAIN
-  PROPOSED LIGHTING UNIT 34.5 FT. MH, 6 FT. MAST ARM, 240V (LINE TO LINE) LED LUMINAIRE 173 W (20,512 LUMENS) WITH BREAKAWAY DEVICE, FESTOON OUTLET, BREAKAWAY BANNER SUPPORT ARMS AND PLANT SUPPORT ARM
-  UNIT DUCT, 600V, 7-1C NO. 6, 1/C NO. 8 GROUND (XLP-TYPE USE) 2" DIA. POLYETHYLENE
-  ComEd ELECTRIC SERVICE
-  PROPOSED LIGHTING CONTROLLER, 240V, 1Ø, 3 WIRE, 200 AMP, BASE MOUNTED
-  UNDERGROUND CONDUIT, GALVANIZED STEEL
-  GROUND ROD 5/8" DIA. X 10 FT.
-  ELECTRIC CABLE IN CONDUIT 3-1/C NO. 3/0 (XLP-TYPE USE)

HRG PROJECT NO.: #PROJ010109  
 HRG PROJ. CONTACT: #HRG010109  
 FILE NAME: 20230427-017-1010109-01-01.dgn  
 USER: #HRG010109  
 PEN TABLE: #PEN\_TABLE

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

USER NAME = Srahman	DESIGNED - MH	REVISED -
	DRAWN - MD / SR	REVISED -
PLOT SCALE = 100.0000" / in.	CHECKED - BL	REVISED -
PLOT DATE = 8/4/2023	DATE - 08-04-2023	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**GENERAL NOTES, LEGEND AND BILL OF MATERIALS  
 GOLF ROAD - VILLAGE OF NILES**

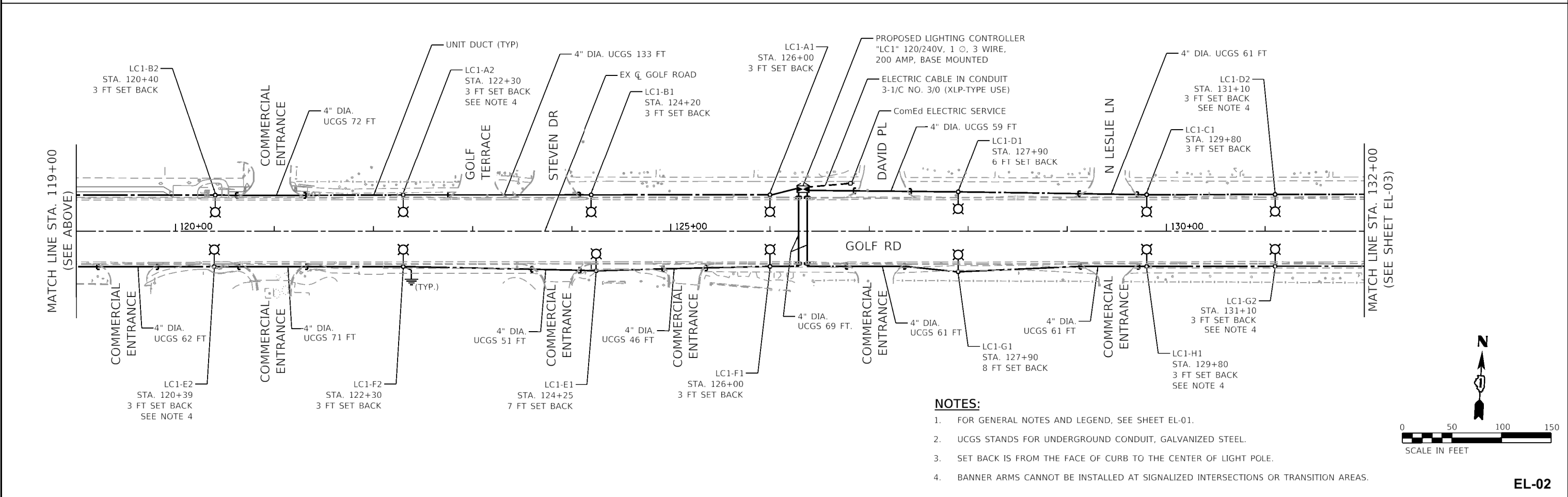
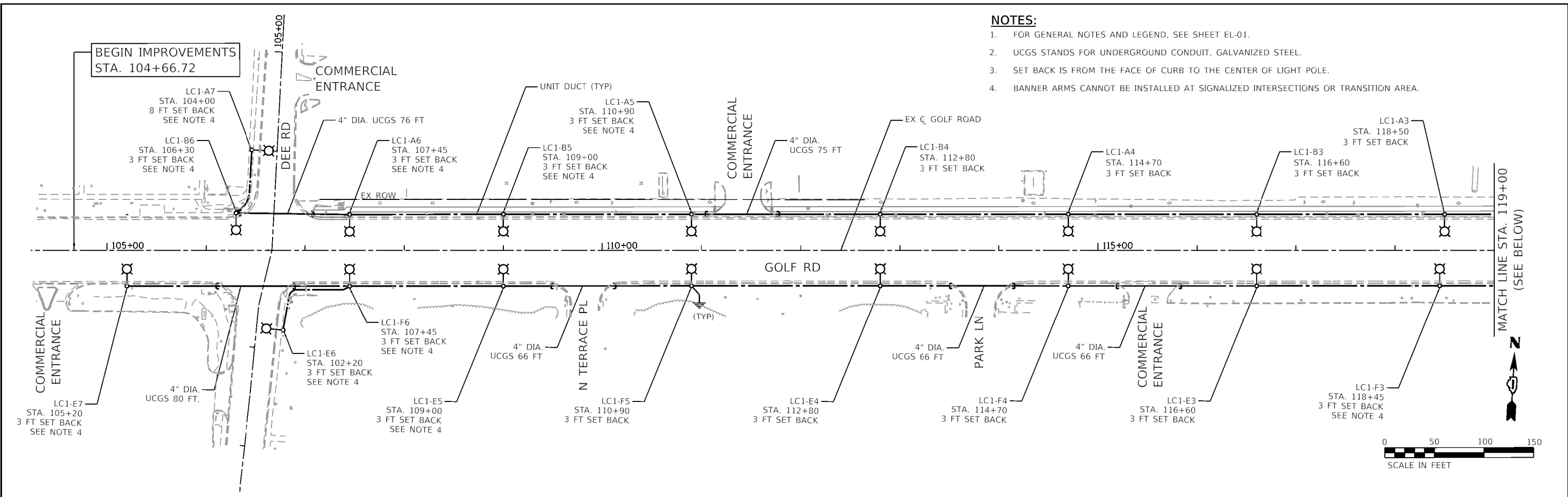
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	18-00130-00-L5	COOK	145	95
CONTRACT NO.				
ILLINOIS		FED. AID PROJECT		

**EL-01**

**NOTES:**

1. FOR GENERAL NOTES AND LEGEND, SEE SHEET EL-01.
2. UCGS STANDS FOR UNDERGROUND CONDUIT, GALVANIZED STEEL.
3. SET BACK IS FROM THE FACE OF CURB TO THE CENTER OF LIGHT POLE.
4. BANNER ARMS CANNOT BE INSTALLED AT SIGNALIZED INTERSECTIONS OR TRANSITION AREA.



**NOTES:**

1. FOR GENERAL NOTES AND LEGEND, SEE SHEET EL-01.
2. UCGS STANDS FOR UNDERGROUND CONDUIT, GALVANIZED STEEL.
3. SET BACK IS FROM THE FACE OF CURB TO THE CENTER OF LIGHT POLE.
4. BANNER ARMS CANNOT BE INSTALLED AT SIGNALIZED INTERSECTIONS OR TRANSITION AREAS.

HRG PROJECT NO.: #PROJ01010  
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 FILE NAME: 200402-011-1011-01-02.dgn  
 USER: #HRG01010  
 PEN TABLE: #PENL TABLES

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

USER NAME = Srahman	DESIGNED - MH	REVISED -
PLGT SCALE = 100.0000' / in.	DRAWN - MD / SR	REVISED -
PLGT DATE = 8/4/2023	CHECKED - BL	REVISED -
	DATE - 08-04-2023	REVISED -

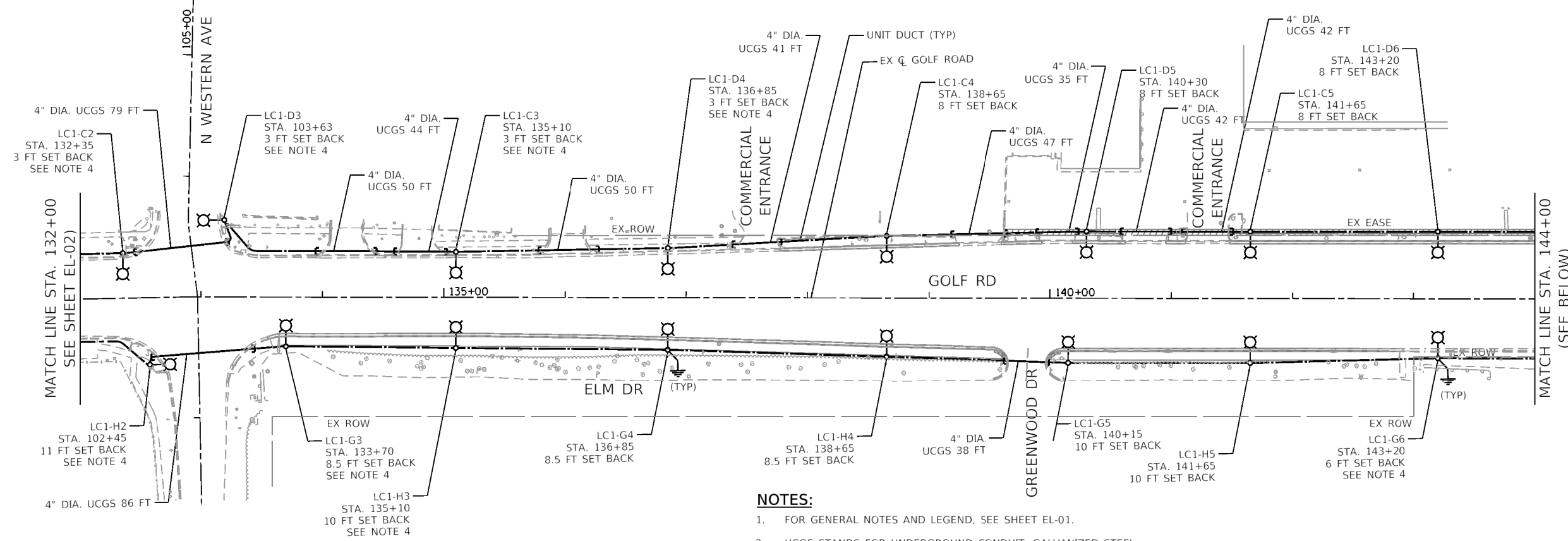
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

SCALE: 1"=50'	SHEET 1 OF 4 SHEETS	STA. 104+66.72 TO STA. 132+00
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	18-00130-00-L5	COOK	145	96
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

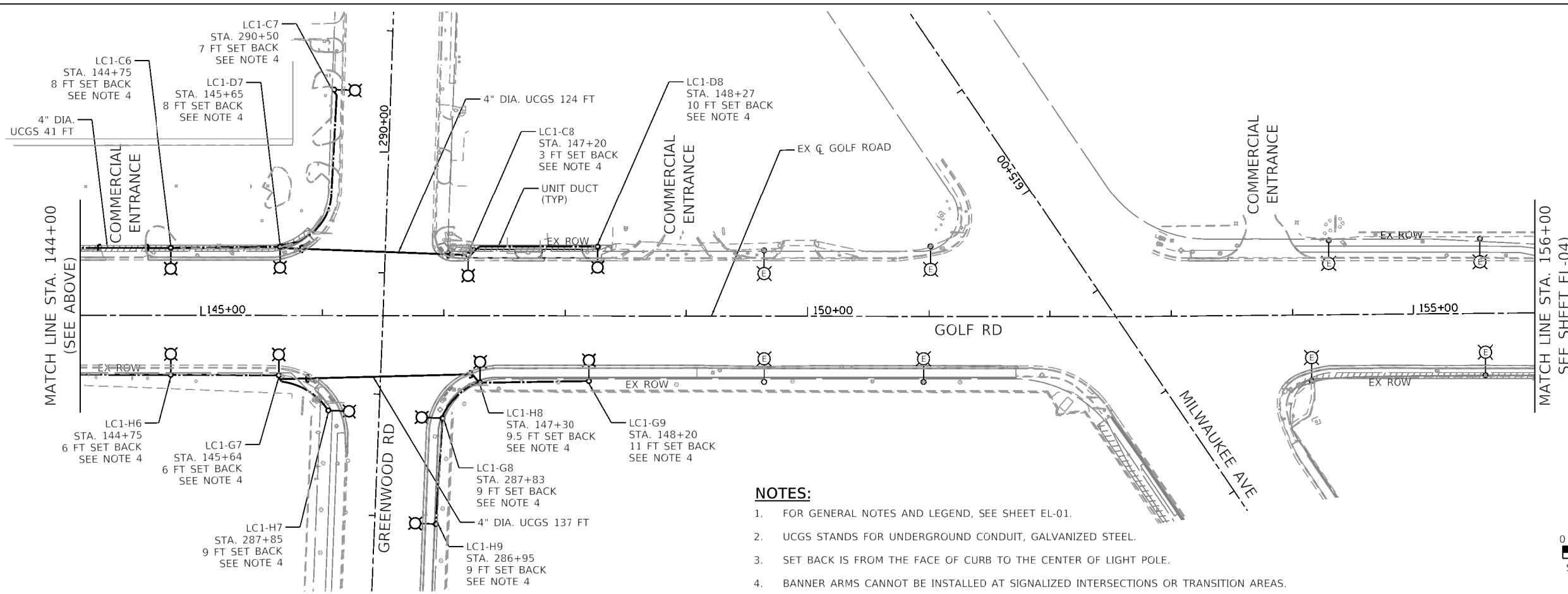
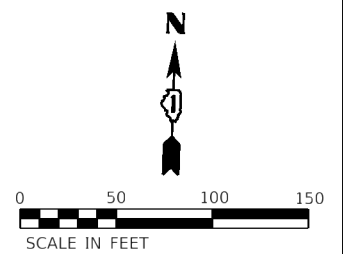
**EL-02**





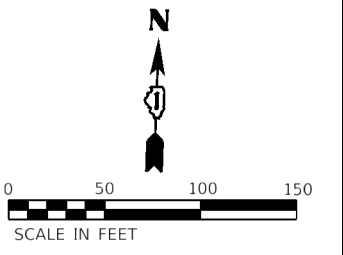
**NOTES:**

1. FOR GENERAL NOTES AND LEGEND, SEE SHEET EL-01.
2. UCGS STANDS FOR UNDERGROUND CONDUIT, GALVANIZED STEEL.
3. SET BACK IS FROM THE FACE OF CURB TO THE CENTER OF LIGHT POLE.
4. BANNER ARMS CANNOT BE INSTALLED AT SIGNALIZED INTERSECTIONS OR TRANSITION AREA.



**NOTES:**

1. FOR GENERAL NOTES AND LEGEND, SEE SHEET EL-01.
2. UCGS STANDS FOR UNDERGROUND CONDUIT, GALVANIZED STEEL.
3. SET BACK IS FROM THE FACE OF CURB TO THE CENTER OF LIGHT POLE.
4. BANNER ARMS CANNOT BE INSTALLED AT SIGNALIZED INTERSECTIONS OR TRANSITION AREAS.



HRG PROJECT NO.: #PROJCT0109  
 HRG PROJ. CONTACT: #HRG0109  
 FILE NAME: 200802-011-1011-01-01-01.dgn  
 REV. NO.: 1  
 REV. DATE: 8/4/2023  
 REV. TABLE: #REF. TABLES

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

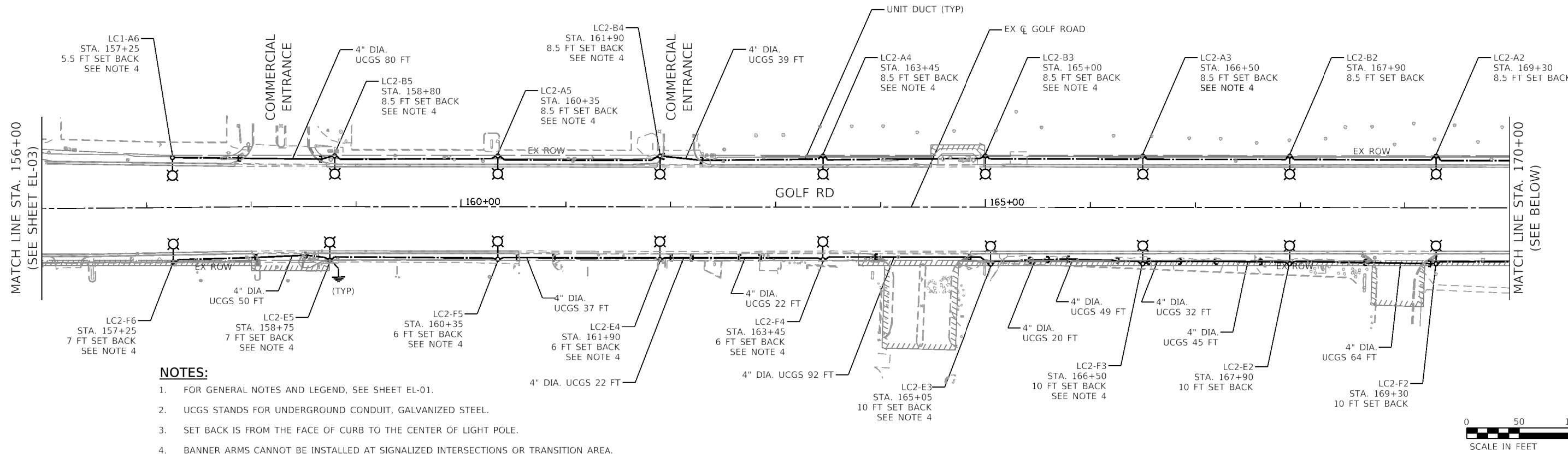
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	DRAWN - MD / SR	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED - BL	REVISED -
PLOT DATE = 8/4/2023	DATE - 08-04-2023	REVISED -

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

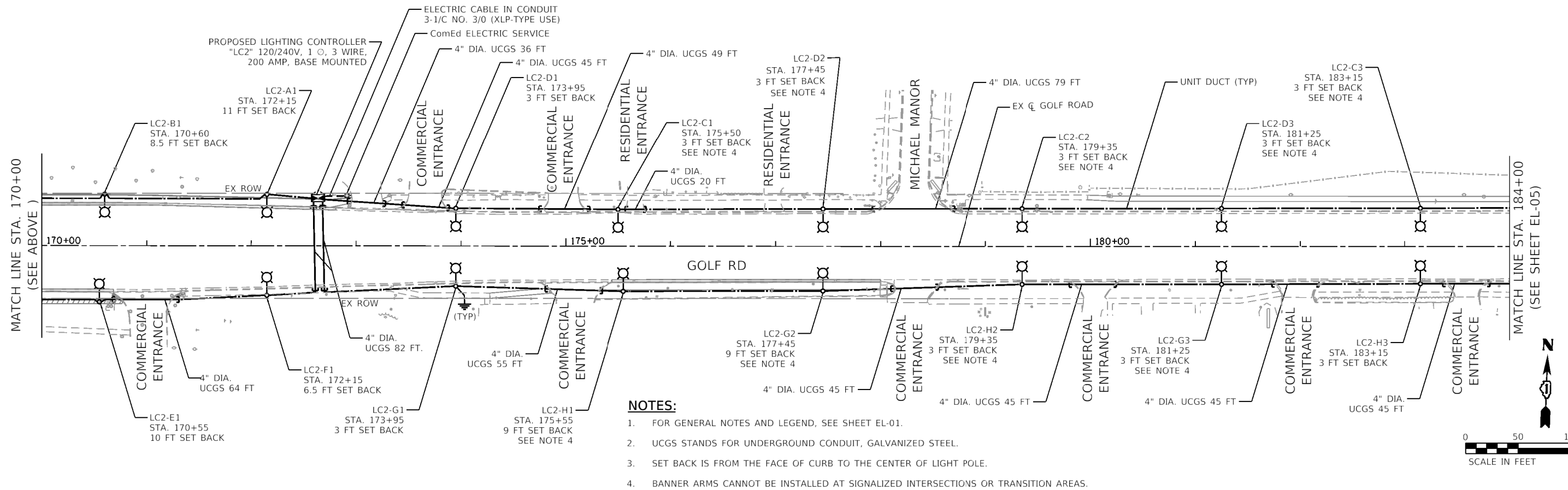
<b>ROADWAY LIGHTING PLANS</b> <b>GOLF ROAD - VILLAGE OF NILES</b>	
SCALE: 1"=50'	SHEET 2 OF 4 SHEETS
STA. 132+00 TO STA. 156+00	

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	18-00130-00-L5	COOK	145	97
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

**EL-03**



- NOTES:**
- FOR GENERAL NOTES AND LEGEND, SEE SHEET EL-01.
  - UCGS STANDS FOR UNDERGROUND CONDUIT, GALVANIZED STEEL.
  - SET BACK IS FROM THE FACE OF CURB TO THE CENTER OF LIGHT POLE.
  - BANNER ARMS CANNOT BE INSTALLED AT SIGNALIZED INTERSECTIONS OR TRANSITION AREA.



- NOTES:**
- FOR GENERAL NOTES AND LEGEND, SEE SHEET EL-01.
  - UCGS STANDS FOR UNDERGROUND CONDUIT, GALVANIZED STEEL.
  - SET BACK IS FROM THE FACE OF CURB TO THE CENTER OF LIGHT POLE.
  - BANNER ARMS CANNOT BE INSTALLED AT SIGNALIZED INTERSECTIONS OR TRANSITION AREAS.



HRG PROJECT NO.: #PROJ01010  
 HRG PROJ. CONTACT: #HRG01010  
 FILE NAME: 202402-011-1011-01-EL-04.dgn  
 USER: #HRG01010  
 PEN TABLE: #PEN TABLES

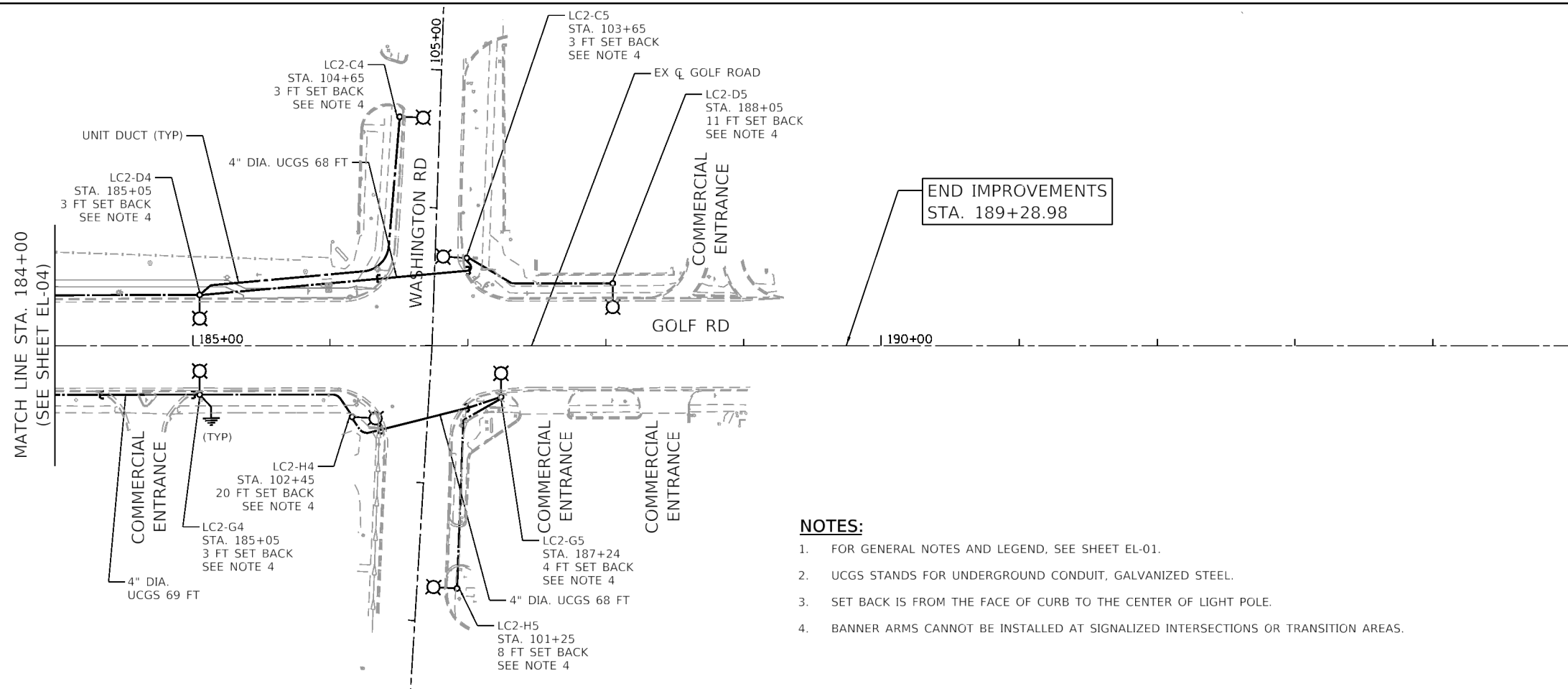
**AMES Engineering, Inc.**  
 CONSULTING ENGINEERS  
 6330 Belmont Road, Suite 4B  
 Downers Grove, IL 60516

USER NAME = Srahman	DESIGNED - MH	REVISED -
PLGT SCALE = 100.0000' / in.	DRAWN - MD / SR	REVISED -
PLGT DATE = 8/4/2023	CHECKED - BL	REVISED -
	DATE - 08-04-2023	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>ROADWAY LIGHTING PLANS</b>			
<b>GOLF ROAD - VILLAGE OF NILES</b>			
SCALE: 1"=50'	SHEET 3 OF 4 SHEETS	STA. 156+00 TO STA. 184+00	

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	18-00130-00-L5	COOK	145	98
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



END IMPROVEMENTS  
STA. 189+28.98

**NOTES:**

1. FOR GENERAL NOTES AND LEGEND, SEE SHEET EL-01.
2. UCGS STANDS FOR UNDERGROUND CONDUIT, GALVANIZED STEEL.
3. SET BACK IS FROM THE FACE OF CURB TO THE CENTER OF LIGHT POLE.
4. BANNER ARMS CANNOT BE INSTALLED AT SIGNALIZED INTERSECTIONS OR TRANSITION AREAS.



HRG PROJECT NO.: #PROJ010109  
 HRG PROJ. CONT. ACT.: #HRG0101  
 FILE NAME: 200802-011-1010109-01-EL-05.dgn  
 USER: #1010109  
 PEN TABLE: #PEN\_TABLES

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

USER NAME = Srahman	DESIGNED - MH	REVISED -
	DRAWN - MD / SR	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED - BL	REVISED -
PLOT DATE = 8/4/2023	DATE - 08-04-2023	REVISED -

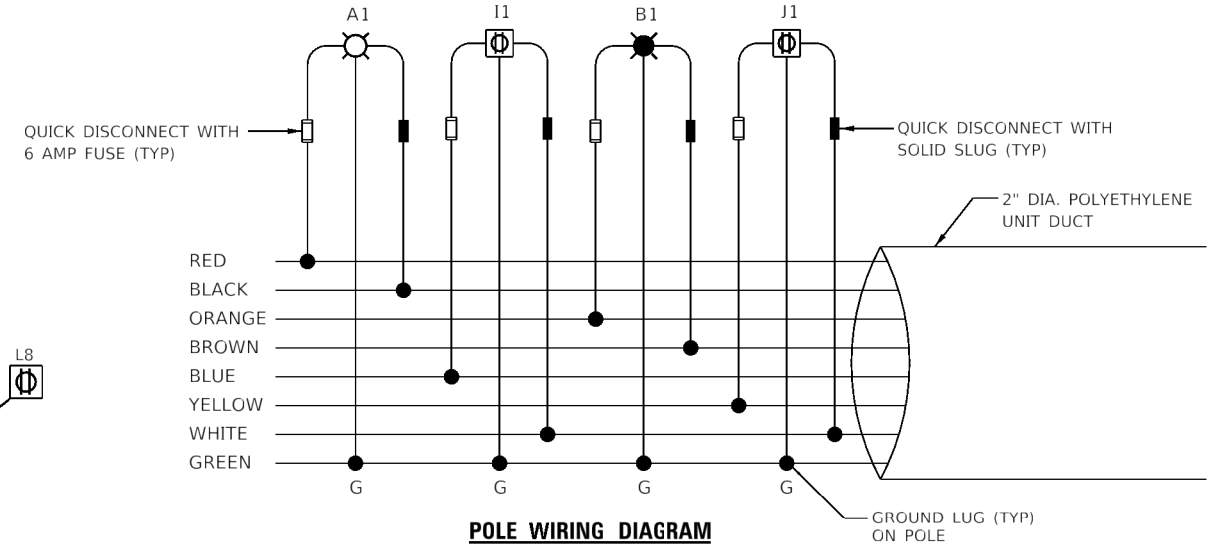
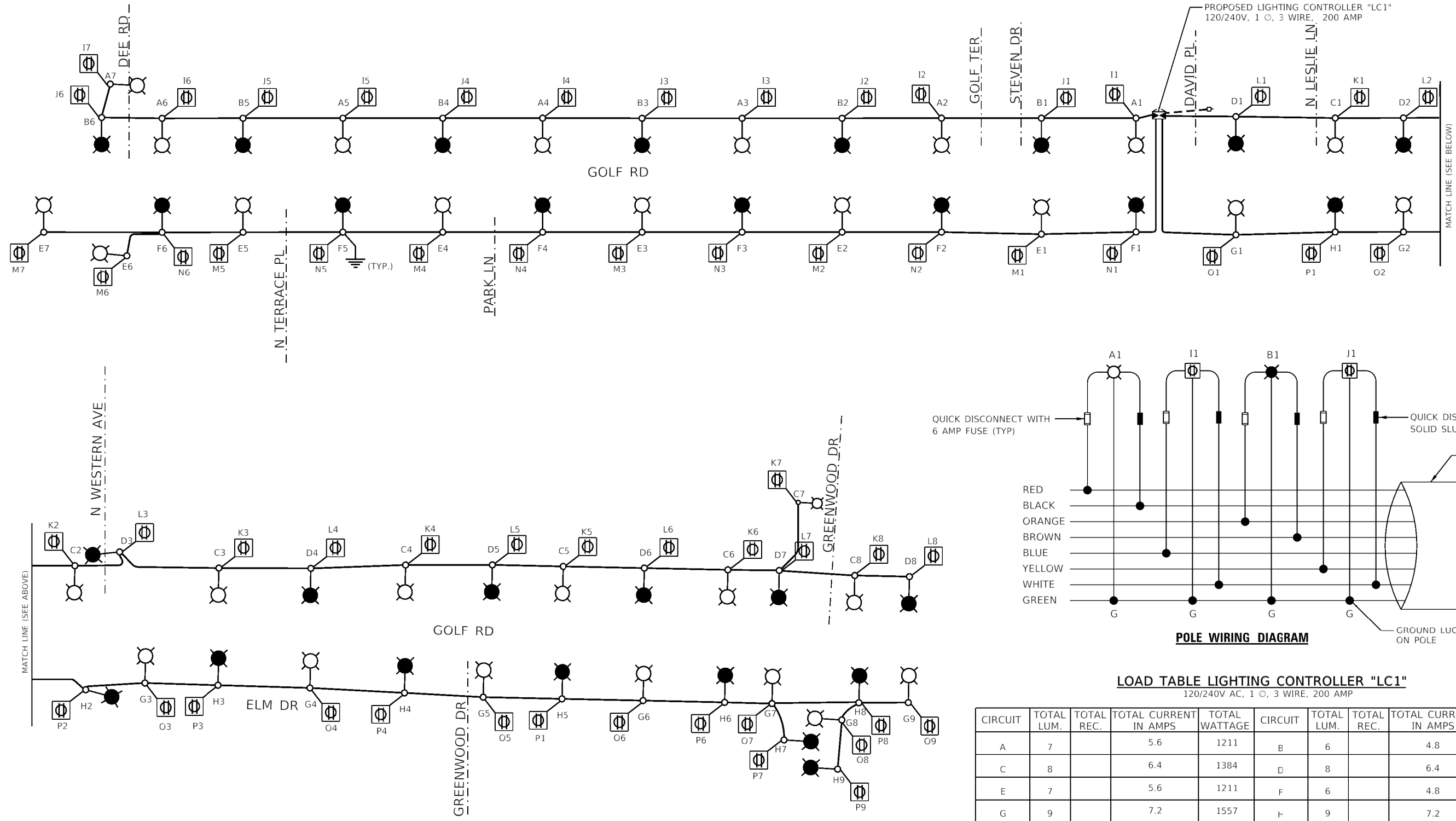
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**ROADWAY LIGHTING PLANS**  
**GOLF ROAD - VILLAGE OF NILES**

SCALE: 1"=50' SHEET 4 OF 4 SHEETS STA. 184+00 TO STA. 189+28.98

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	18-00130-00-L5	COOK	145	99
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

**EL-05**



**LOAD TABLE LIGHTING CONTROLLER "LC1"**  
120/240V AC, 1 Ø, 3 WIRE, 200 AMP

CIRCUIT	TOTAL LUM.	TOTAL REC.	TOTAL CURRENT IN AMPS	TOTAL WATTAGE	CIRCUIT	TOTAL LUM.	TOTAL REC.	TOTAL CURRENT IN AMPS	TOTAL WATTAGE
A	7		5.6	1211	B	6		4.8	1038
C	8		6.4	1384	D	8		6.4	1384
E	7		5.6	1211	F	6		4.8	1038
G	9		7.2	1557	H	9		7.2	1557
I		7	10.5	1260	J		6	9.0	1080
K		8	12.0	1440	L		8	12.0	1440
M		7	10.5	1260	N		6	9.0	1080
O		9	13.5	1620	P		8	12.0	1440
TOTAL			71.3	10943				65.2	10057

TOTAL LOAD IN WATTS 21,000  
TOTAL LOAD IN AMPS 136.5

**LEGEND:**

- LUMINAIRE, LED, 240V, 0.80A, 173W, ON RED AND BLACK WIRE
- LUMINAIRE, LED, 240V, 0.80A, 173W, ON ORANGE AND BROWN WIRE
- UNIT DUCT 7-1C #6 1/C #8 GROUND
- FESTOON OUTLET, 120V, 1.5A

HRG PROJECT NO.: #PROJ01010  
 HRG PROJ. CONTACT: #HRG01010  
 FILE NAME: 200802-011-1011-01-06.dgn  
 PLOT DATE: 8/4/2023  
 PLOT SCALE: 200.0000" / in.  
 PEN TABLE: #PENK TABLES

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

USER NAME = Srahman	DESIGNED - MH	REVISED -
	DRAWN - MD / SR	REVISED -
PLOT SCALE = 200.0000" / in.	CHECKED - BL	REVISED -
PLOT DATE = 8/4/2023	DATE - 08-04-2023	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SINGLE LINE DIAGRAM - LC1  
GOLF ROAD - VILLAGE OF NILES**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	18-00130-00-L5	COOK	145	100
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

**EL-06**